

Biological analyses of underwater video from monitoring and research cruises carried out from 2017 to 2019 in the Sounds of Barra and Mull Lochs Sunart, Alsh and Carron, the Inner Sound, and off the Small Isles and east of Shetland



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RESEARCH REPORT

Research Report No. 1229

Biological analyses of underwater video from monitoring and research cruises carried out from 2017 to 2019 in the Sounds of Barra and Mull Lochs Sunart, Alsh and Carron, the Inner Sound, and off the Small Isles and east of Shetland

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Biological analyses of underwater video from monitoring and research cruises carried out from 2017 to 2019 in the Sounds of Barra and Mull, Lochs Sunart, Alsh and Carron, the Inner Sound, and off the Small Isles and east of Shetland

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Background

The aim of this study was to improve knowledge of the occurrence and distribution of species and habitats of recognised conservation importance in eight locations around Scotland through the analysis of seabed video and still photographic imagery collected during monitoring and research cruises undertaken from 2017 to 2019. Of the eight locations only the area surveyed off Shetland is not encompassed by the Scottish Marine Protected Area (MPA) network. This work also contributes to programmes of MPA monitoring and management, and of refining knowledge of the distribution of Habitats Directive Annex I habitats within Scottish marine Special Areas of Conservation (SACs).

Main findings

- Within the Sound of Barra SAC and in adjacent waters, a high proportion of survey video runs passed through qualifying Annex 1 features (seabed habitats for which the site was designated), with widespread distribution of rocky reef and subtidal sandbank habitats. Four of the six designated subtidal sandbank sub-types were recorded, strongly dominated by 'gravelly and clean sands' and the Priority Marine Feature (PMF) 'maerl beds'. The related PMF 'maerl or coarse shell gravel with burrowing sea cucumbers' was found at a single site. The 'northern sea fan and sponge communities' PMF was recorded along two runs, including a rich example of the habitat at one site, whilst the component sea fan species *Swiftia pallida* was more widely distributed in the area.
- The 'northern sea fan and sponge communities' PMF was also recorded along three runs in the Sound of Mull with high densities of *Swiftia pallida*. The 'burrowed mud' PMF was present at three further sites supporting high densities of the component seapen *Funiculina quadrangularis*. Other PMFs observed in the Sound of Mull included *Leptometra celtica*,

formed into aggregations on mixed substrates at two sites, and a low density horse mussel bed.

- Video runs traversed flame shell beds in Lochs Alsh and Carron and a probably small bed in Loch Sunart, where they are an MPA protected feature. Evidence from the current work indicated that the locations of bed boundaries in Lochs Alsh and Carron were close to those derived from previous, recent surveys. The habitat along the edge of one bed in Loch Carron was heavily modified by scallop dredging.
- The Annex 1 habitat ‘reefs’ (a qualifying feature for the Sunart SAC) was found to be widely distributed within the surveyed area of Loch Sunart, where it supported the ‘northern sea fan and sponge communities’ PMF along four runs and its component species *Swiftia pallida* at these and several other sites. Other PMFs recorded in the area included ‘burrowed mud’, with the component species *Funiculina quadrangularis* and *Pachycerianthus multiplicatus*, and certain or probable sightings of *Arctica islandica* along seven of the video runs. *Leptometra celtica* was extensively distributed in the region, with dense aggregations widely recorded on mixed substrates (a designated protected feature).
- The surveyed area off the Small Isles overlapped slightly with the Small Isles MPA and most of the video runs passed through protected features of the MPA, with widespread distribution of burrowed muds, northern sea fan and sponge communities, and *Leptometra celtica* aggregations on mixed substrata. The burrowed mud habitat was particularly well-developed in places, where it supported high densities of the PMF component species *Funiculina quadrangularis*, as well as *Pachycerianthus multiplicatus*. Other PMF species observed included *Parazoanthus anguicomus*, *Swiftia pallida*, and possibly dense *Arctica islandica*.
- The extent and diversity of reef habitats was a primary reason for the selection of the Lochs Duich, Long and Alsh Reefs SAC. In the surveyed area of Loch Alsh both video runs traversed areas of bedrock and stony (scattered boulders and cobble) reefs supporting typical sheltered sea loch communities. The MPA protected feature flame shell bed habitat was also recorded along both video runs and incorporated the horse mussel bed PMF along one of them.
- Video runs within the Loch Carron MPA traversed excellent examples of the protected feature flame shell bed habitat in Strome Narrows and around Sgeir Bhuidhe. Other PMFs observed included two examples of ‘tide-swept algal communities’ in Strome Narrows and one example of ‘kelp and seaweed communities on sublittoral sediment’ around Sgeir Bhuidhe.
- The surveyed area in the Inner Sound contained extensive coverage of high quality ‘burrowed mud’ PMF habitat supporting a dense megafaunal burrowing community and fairly high numbers of the PMF component species, *Funiculina quadrangularis* and *Pachycerianthus multiplicatus*. The PMF *Leptometra celtica* was also widely distributed here and formed dense aggregations on mixed substrates at five sites. The ‘northern sea fan and sponge communities’ PMF was extensively recorded but only as low diversity examples of the ‘deep sponge’ component biotope.
- Seven PMFs were recorded off Shetland including two, low diversity examples of the ‘northern sea fan and sponge communities’ habitat, one example of ‘maerl or coarse shell gravel with burrowing sea cucumbers’ and one, apparently low diversity, tide-swept horse mussel bed. Species PMFs included single records of *Arctica islandica*, *Dipturus batis* and *Gadus morhua*, and the presence of *Molva molva* along four of the 25 video runs.

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Table of Contents	Page
1. INTRODUCTION	1
2. METHODS	4
3. RESULTS	5
3.1 Sound of Barra boxes 2017 and 2018	5
3.1.1 Correlation of infaunal and video data	5
3.1.2 Biotope distribution	6
3.2 Sound of Mull	19
3.3 Loch Sunart	21
3.4 Small Isles	23
3.5 Loch Alsh	25
3.6 Loch Carron	27
3.7 Inner Sound	30
3.8 East of Shetland	32
4. DISCUSSION	37
4.1 Sound of Barra boxes 2017 and 2018	38
4.2 Sound of Mull	41
4.3 Loch Sunart	41
4.4 Small Isles	43
4.5 Loch Alsh	45
4.6 Loch Carron	46
4.7 Inner Sound	47
4.8 East of Shetland	49
5. REFERENCES	51
ANNEX 1: QUALIFYING HABITATS DIRECTIVE ANNEX I HABITATS AND SUB-TYPES/FEATURES IN THE SACS SURVEYED	52
ANNEX 2: PROTECTED FEATURES OF THE FIVE MPAS SURVEYED	53
ANNEX 3: POSITIONAL AND TEMPORAL DETAILS OF VIDEO SEQUENCES RECORDED DURING THE SURVEYS	55
ANNEX 4: PHYSICAL AND BIOLOGICAL DESCRIPTIONS OF THE SURVEY SITES, WITH INDICATORS OF CONSERVATION IMPORTANCE OF HABITATS AND SPECIES	94
ANNEX 5: BIOTOPES AND PROTECTED FEATURE (PF) SPECIES RECORDED WITH SITES OF OCCURRENCE AND ILLUSTRATIVE PHOTOGRAPH OR VIDEO FRAME GRAB	314
ANNEX 6: PMF, PF AND QUALIFYING ANNEX I HABITAT TYPE ABBREVIATIONS USED IN TABLES	340

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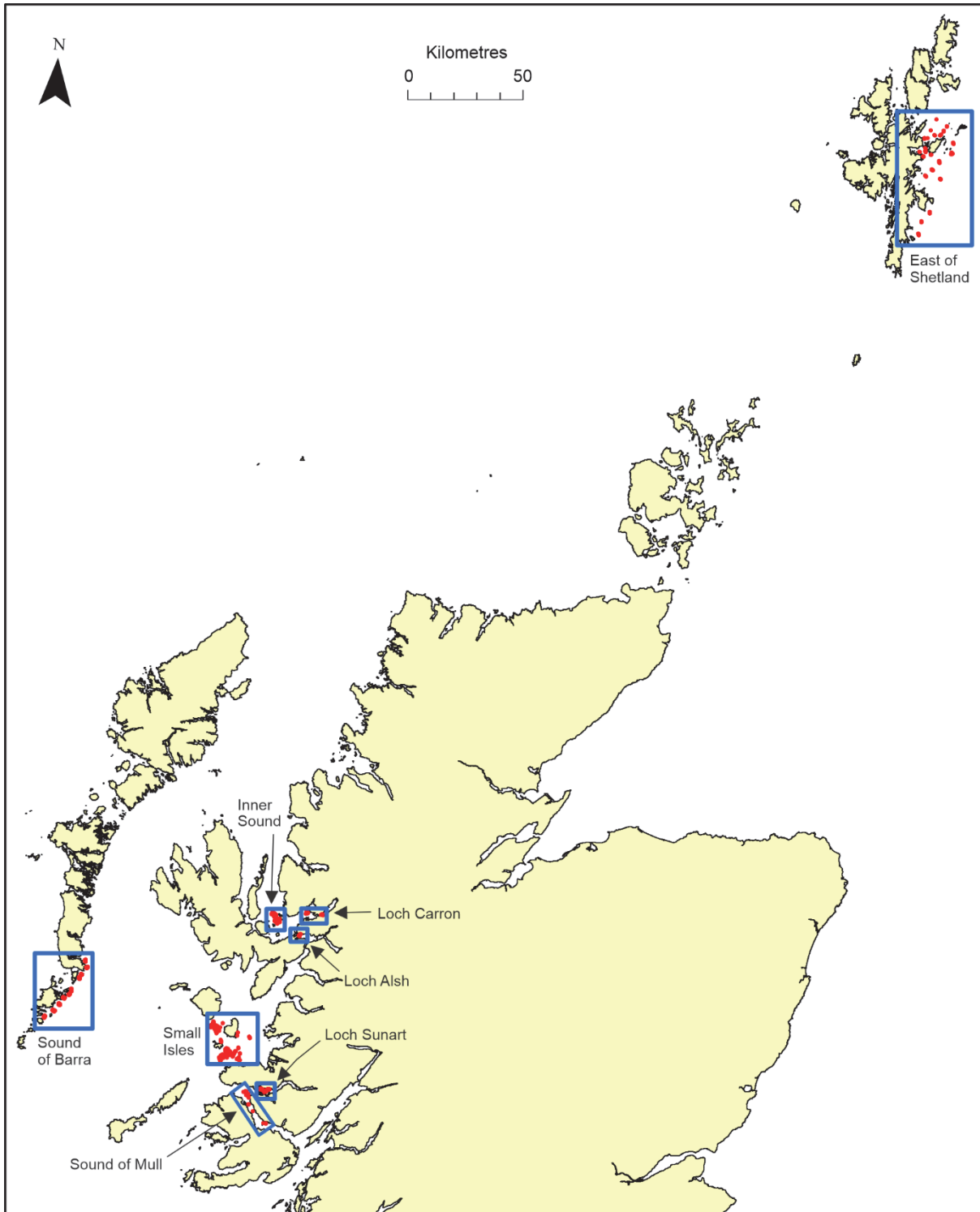
1. INTRODUCTION

This report contributes to a long series of underwater video analyses commissioned by NatureScot (previously SNH) since 2009. The primary aim of these studies is to improve knowledge of the occurrence and distribution of species and habitats of recognised conservation importance through the analysis of seabed video and still photographic imagery collected during monitoring and research cruises. The drivers for the different surveys include mapping, monitoring and management within marine protected areas (MPAs), monitoring to assess the impacts of human activities and general inventory sampling to fill gaps in current understanding.

The present investigation analysed underwater video footage from nine surveys at eight locations in Scottish territorial waters (Table 1). These data were collected from 2017 to 2019 by Marine Scotland Science (MSS), NatureScot, the Joint Nature Conservation Committee (JNCC) and the Scottish Environment Protection Agency (SEPA). The survey locations are shown in Figure 1. Seven of the survey locations are encompassed within the Scottish network of marine protected areas, which includes Special Areas of Conservation (SACs) and Nature Conservation Marine Protected Areas (NC MPAs). The SACs were established under the 1992 EC Habitats Directive and were selected for the protection of particular habitats and species which are listed in Annex 1 and 2, respectively, of the Directive. The MPAs were designated in 2014 under the Marine (Scotland) Act 2010 (see Marine Scotland, 2011). The survey carried out off the east of Shetland does not lie within protected areas.

Parts of the following four SACs form components of this work: Sunart, Sound of Barra, Inner Hebrides and the Minches, and Lochs Duich, Long and Alsh Reefs. The analyses also encompass footage collected from the following five MPAs: Loch Sunart, Loch Sunart to Sound of Jura, Small Isles, Lochs Duich, Long and Alsh, and Loch Carron. The habitats for which these sites were designated are listed in Annexes 1 and 2 of this report.

The conservation importance of features found in this report has been assessed with consideration of a number of legislative drivers. These include the presence of qualifying habitats within the SACs and protected features (PFs) in the MPAs, and the presence of Scottish Priority Marine Features (PMFs) (SNH & JNCC, 2014) within and outside MPAs. Cognisance has also been taken of other published importance measures. The current study serves to contribute to a programme of refining the distribution of Habitat Directive Annex I habitats within Scottish SACs and of protected features within MPAs. It also contributes to ongoing monitoring and management of protected areas and to a programme of improving knowledge of the distribution of biotopes and PMFs within protected and wider areas. The purpose of the individual surveys is summarised in Table 1.



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Figure 1. Distribution of survey locations (blue boxes) and sample sites (red dots).

Table 1. Survey details. The survey area code is the abbreviation employed in Tables 2 and 3.

Survey	Organisation	Date	Vessel	No. sites	Survey area code	Interest
Sound of Barra boxes 2017	SNH/MSS	05-11 May 2017	<i>Alba na Mara</i>	31	SOB	Baseline surveys to assess possible management measures as above
Sound of Barra boxes 2018	SNH/MSS	08-12 Jun 2018	<i>Alba na Mara</i>	32	SOB	as above
Sound of Mull 2019	SNH/MSS	09-10 May 2019	<i>Alba na Mara</i>	11	SOM	MPA monitoring
Loch Sunart 2019	SNH/MSS	09 May 2019	<i>Alba na Mara</i>	20	LS	MPA monitoring
Small Isles 2019	SNH/MSS	04-08 May 2019	<i>Alba na Mara</i>	63	SI	Improving knowledge of the distribution of PMFs
Loch Alsh 2019	SNH/MSS	03 May 2019	<i>Alba na Mara</i>	2	LA	MPA monitoring
Loch Carron 2019	SNH/SEPA	30 Jun - 01 Jul 2019	<i>Sir John Murray</i>	19	LC	Refining flame shell bed boundary and extent
Inner Sound 2019	SNH/MSS	02-03 May 2019	<i>Alba na Mara</i>	26	IS	Improving knowledge of the distribution of PMFs
East of Shetland 2017	JNCC/MSS	04-06 Nov 2017	<i>Scotia</i>	25	SH	Inshore contingency sampling

2. METHODS

Survey details are provided in Table 1. Video images were obtained from dropdown video drifts, with the camera frame carrying a laser scaling system and the facility to take digital still photographs at intervals. For all surveys a high definition video camera was deployed, with HD recorded locally (seabed) and standard definition recorded at the surface. A video overlay displayed time data and, for most of the sites, position and depth, although the time and position data were not used due to reported unreliability. Instead, the video was synchronised with the ship's track log using the flashes from the still camera and the corresponding recorded time. Where this was not possible (Loch Carron and east of Shetland), the video was synchronised with the recorded start time of the run. Depth data for Shetland was available from a CTD unit mounted on the camera frame, whereas for Loch Carron only depths at the start and end of each run were available. Vessel track data were available for the surveys at a frequency of generally 0.5 – 1.0 Hz, although this was significantly lower for Loch Carron. All depths were converted to depth below chart datum, employing TotalTide software (Admiralty, Taunton) to determine tidal rise at the most appropriate secondary port.

The video and still imagery was used to describe the nature of the seabed in terms of the physical structure and the species assemblages. Species present were, as far as possible, identified and quantified using the semi-quantitative MNCR SACFOR scale (Hiscock, 1996). Biotopes were allocated based on the physical and biological attributes (Connor *et al.*, 2004). Runs traversing a sequence of habitats were split into corresponding segments, with the transition points recorded using the time, position and depth where the data were available. Video segments, as well as homogeneous, unsegmented runs, are regarded as video samples. Segmentation of runs was not practicable in the case of mosaics of biotopes, in which case all biotopes observed were simply listed. For surveys of SAC locations each video sample was classified according to the Habitats Directive Annex I habitats present. The presence of PFs was recorded for all video samples within or adjacent to MPAs and the presence of PMFs for all video samples.

In the figures of this report for clarity the positions of biotope records have generally been plotted using biotope symbols marking the midpoint of the start and end of the sample, together with the simplified track using a straight line between start and end points. In an accompanying GIS file the detailed vessel track data for each run has been segmented into biotopes, Annex 1 habitats, PFs and PMFs and this form of display is employed in figures of the current report only where it provides additional useful detail, such as in delimiting the margins of protected feature habitats.

3. RESULTS

The presence and distribution of habitats, biotopes and species in each survey area is summarised in this section but presented in detail for each site in Annex 4, with site location data in Annex 3. In this section, PMF biotopes and species are highlighted using red text. Annex 5 provides an inventory of the biotopes recorded, together with illustrative photographs or video frame grabs and lists of their occurrence.

3.1 Sound of Barra boxes 2017 and 2018

The results presented here are derived from video surveys in monitoring boxes within and just outside the Sound of Barra SAC in 2017 and 2018. Results from contemporaneous video sampling of sites outside the monitoring boxes in the same years have been published elsewhere (Moore, 2019). Site names from the 2017 and 2018 video surveys have been given suffixes of _17 and _18 respectively.

3.1.1 Correlation of infaunal and video data

The identification of non-maerl sediment biotopes from video data alone is generally problematical as the bulk of the characterising biota is generally infaunal in nature, and so it is often only possible to assign higher level biotope complexes rather than biotopes. For the Sound of Barra recent infaunal data collected from the vicinity of the monitoring boxes are available from surveys in 2016 (Franco *et al.*, 2017) and 2017 (Allen, 2019), the latter being contemporaneous with one of the current video surveys. The former was also contemporaneous with a video survey, the results of which have been reported by Moore (2017). A further problem in the Sound of Barra is often the presence of a mix of species characteristic of different biotopes within the same infaunal sample, which led Franco *et al.* (2017) to allocate primary and secondary biotopes to each of their 2016 infaunal samples. Attempts to align the distribution of biotopes based on the 2017 and 2018 video samples with those derived from the 2017 and 2016 infaunal surveys necessitated a re-examination of some of the infaunal data, particularly from the wider and contemporaneous 2017 survey (Allen, 2019). For the purposes of this exercise, only the primary biotopes from the 2016 survey were considered.

Allen (2019) does not present an ordination of the 2017 samples labelled by allocated biotope, so an ordination plot has been constructed based on a detrended correspondence analysis of the logged species abundance data (Figure 2). In fact the resulting pattern is similar that of the SIMPROF groupings multidimensional scaling plot in Allen (2019).

The non-maerl biotope records from both the infaunal surveys are strongly dominated by **SS.SCS.ICS.MoeVen** and several biotopes falling within the biotope complex **SS.SCS.CCS**. Although **SS.SCS.ICS.MoeVen** is regarded as the shallow water variant of the widely distributed **SS.SCS.CCS.MedLumVen** (Connor *et al.*, 2004), in this region of the Sound of Barra there is wide overlap in the depth distribution of records of these two biotopes and so depth is not a useful indicator of biotope identity. **SS.SCS.CCS** biotopes generally comprise gravel and medium-coarse sand habitats, whereas **SS.SCS.ICS.MoeVen** occurs in areas with a low gravel content (usually medium to coarse sands and gravelly sand (Connor *et al.*, 2004). Thus, despite the overlap in sediment characteristics, the coarser, gravel-dominated habitats in the area are more likely to be referable to **SS.SCS.CCS** biotopes.

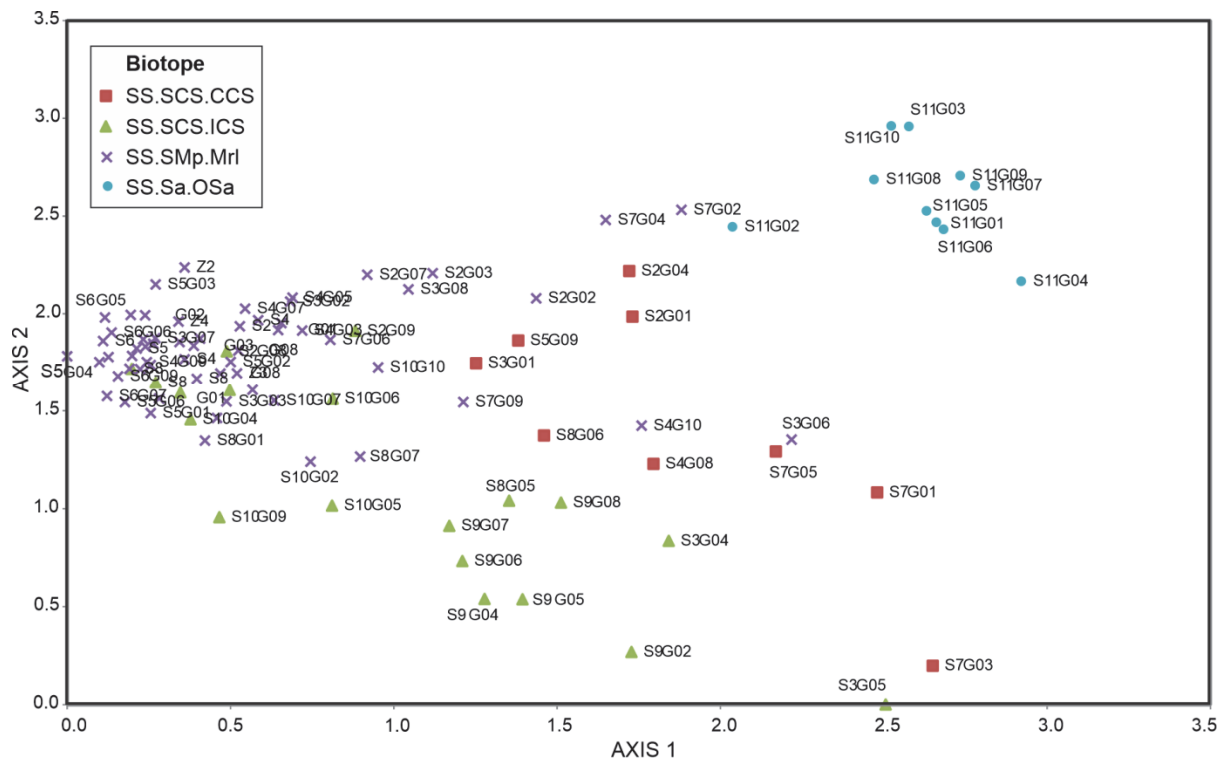


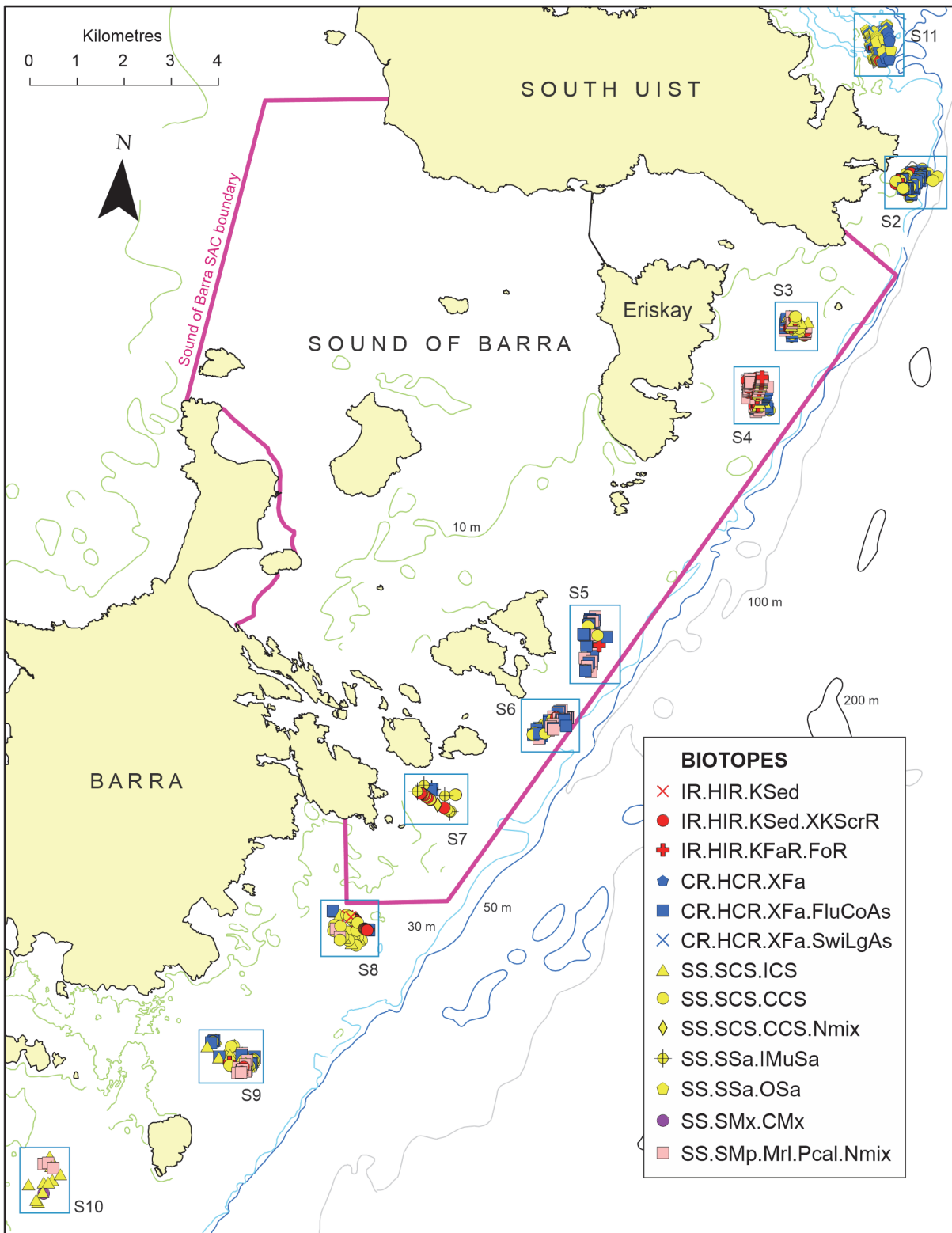
Figure 2. Detrended correspondence analysis of infaunal species abundance data from the 2017 grab survey, with biotope complexes assigned by Allen (2019).

A grouping of sites lying within box S9 can be identified on the ordination plot, which provides the best fit to the **SS.SCS.ICS.MoeVen** biotope (Figure 1, lower centre **SS.SCS.ICS** sites). Franco *et al.* (2017) also recorded this biotope mainly within box S9 where it was strongly dominant. The sediments are all clean medium sands with <1% silt and clay, possess frequent to common *Moerella* spp. (characteristic of the biotope) but lack *Mediomastus fragilis* (characteristic of **SS.SCS.CCS.MedLumVen**) and *Branchiostoma lanceolatum* (characteristic of **SS.SCS.CCS.Blan**). Unlike the great majority of the coarser, gravelly sediments which lie within the large cluster of sites at the left hand side of the plot, the S9 sites are not formed into megaripples. Many of the coarser, gravelly sites support *B. lanceolatum* or *M. fragilis*. Most of them also support *Moerella* spp., which are widespread in coarse sediments around the UK and are also found in **SS.SCS.CCS.MedLumVen** (Connor *et al.*, 2004). In order to provide a degree of consistency in biotope allocation between the video and grab results, the clean medium sands of box S9 and habitats in the area of similar appearance have been referred to **SS.SCS.ICS**. However, most of the sites supporting coarser, megarippled sediments have been ascribed to either maerl or **SS.SCS.ICS.MoeVen** biotopes by Allen (2019) but such areas have been referred largely to maerl or **SS.SCS.CCS** biotopes based on the video evidence. Allen (2019) and Franco *et al.* (2017) also recorded **SS.SCS.CCS.MedLumVen** at several sites in the Sound of Barra and this will be discussed below in relation to box S7. It should be noted that in several areas within the Sound of Barra, bands of very coarse megarippled sediments alternate with bands of flatter medium sands and so even contemporaneous samples taken in the same vicinity may originate from different biotopes.

3.1.2 Biotope distribution (Figures 3 – 13)

Over most of the surveyed area the seabed was strongly dominated by just six biotopes. Megaripples of principally coarse sand and shell gravel, often together with dead maerl, coated much of the seabed over a depth range of 18 - 47 m and supported a sparse visible biota (**SS.SCS.CCS**). Scattered thalli of live maerl were often present in wave troughs and where the percentage cover reached 10% the maerl biotope **SS.SMp.Mrl.Pcal.Nmix** was recognised

from depths of 21 - 32 m. The associated flora and visible fauna were generally sparse but echinoderms and *Pecten maximus* were widely recorded. The characterising holothurian, *Neopentadactyla mixta*, was only observed at four sites. The other major sedimentary biotope was **SS.SCS.ICS** which was recorded over a depth range of 21 - 33 m and generally took the form of clean medium sand often with a brown surface coating of probably comminuted organic detritus. The infauna was often represented by small mounds and emergent tubes including *Chaetopterus variopedatus* and the epifauna by *Pecten maximus*, the crabs *Cancer pagurus* and *Atelecyclus rotundatus*, and the echinoderms *Asterias rubens* and *Luidia ciliaris*. In several areas sedimentary habitats were interrupted by pockets of scoured bedrock. In shallower areas (18 - 28 m) the rock was dominated by a turf composed principally of red algae but containing substantial quantities of hydroids and bryozoans (**IR.HIR.KFaR.FoR**), in places accompanied by a park of principally *Laminaria hyperborea* (**IR.HIR.KSed.XKScrR**). In deeper water, but overlapping in depth range (22 - 38 m), the turf was strongly dominated by bryozoans such as *Flustra foliacea* and *Securiflustra securifrons* and hydroids such as *Nemertesia ramosa*. Other widely recorded sessile forms included *Cliona celata* and *Caryophyllia smithii*. This habitat has been ascribed to the biotope **HCR.XFa.FluCoAs**. The characterising colonial ascidians were present but rarely recorded, although the crust-forming *Polyclinum aurantium* can be difficult to distinguish from sediment dusting of the rock.

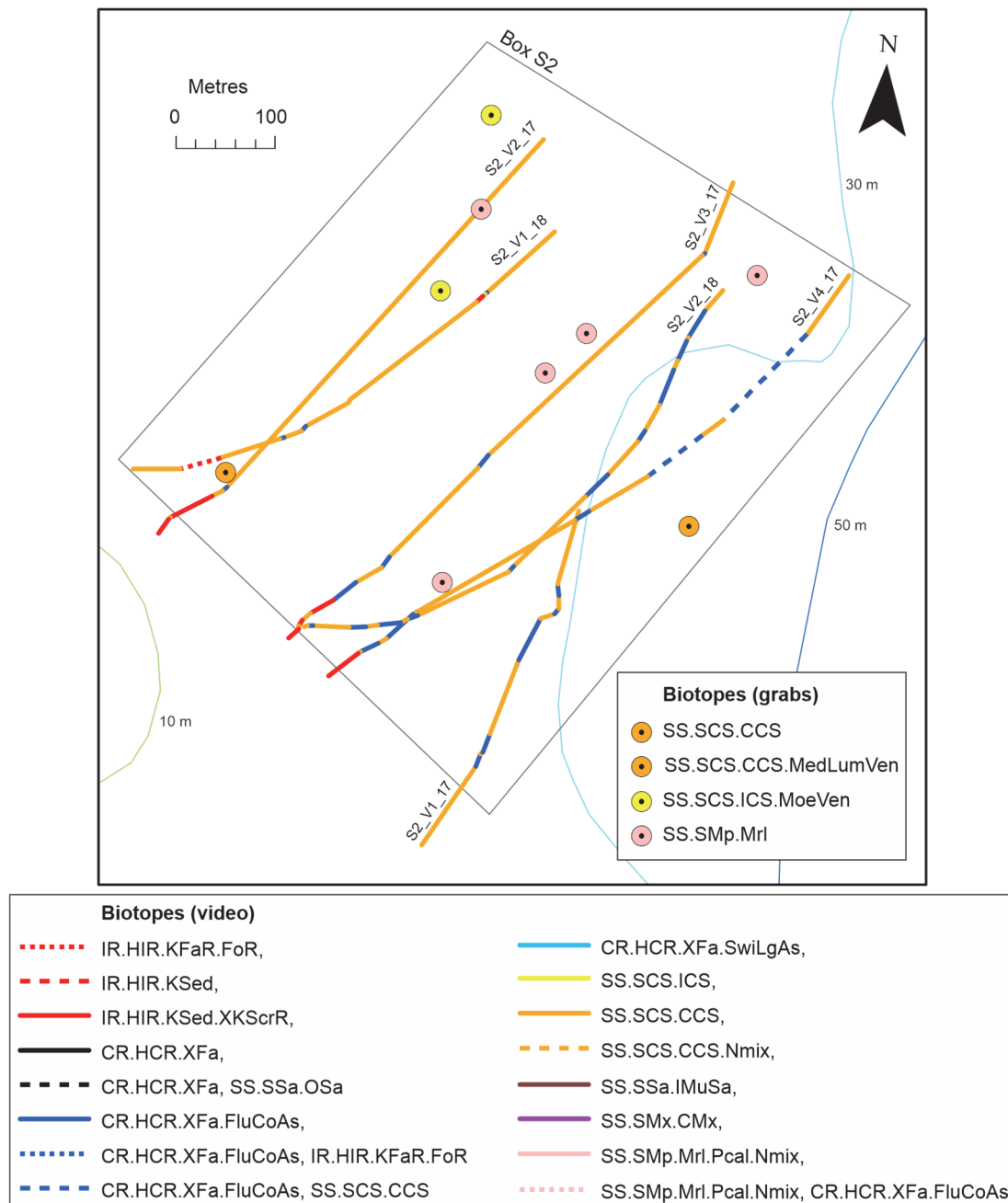


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Figure 3. Distribution of biotope records in the vicinity of the Sound of Barra. Detail within boxes S2 – S11 is shown in Figures 4 - 13.

Box S2 (Figure 4)

This area was found to consist largely of coarse sand and shell gravel, locally megarrippled (**SS.SCS.CCS**), alternating with outcrops of scoured bedrock supporting dense faunal turfs (**HCR.XFa.FluCoAs**) or *Laminaria hyperborea* parks towards the shallower (<27 m) south-western region of the box (**IR.HIR.KSed.XKScrR**). Allen (2019) also reported the presence of **SS.SCS.CCS** biotopes here, but most of the grab samples were assigned to the maerl biotope **SS.SMp.Mrl.Pcal**. The video footage revealed only sparsely scattered thalli of live maerl (<1%) in this area and this is in agreement with inspection of the grab content photographs from the 2017 survey (Allen, 2019).

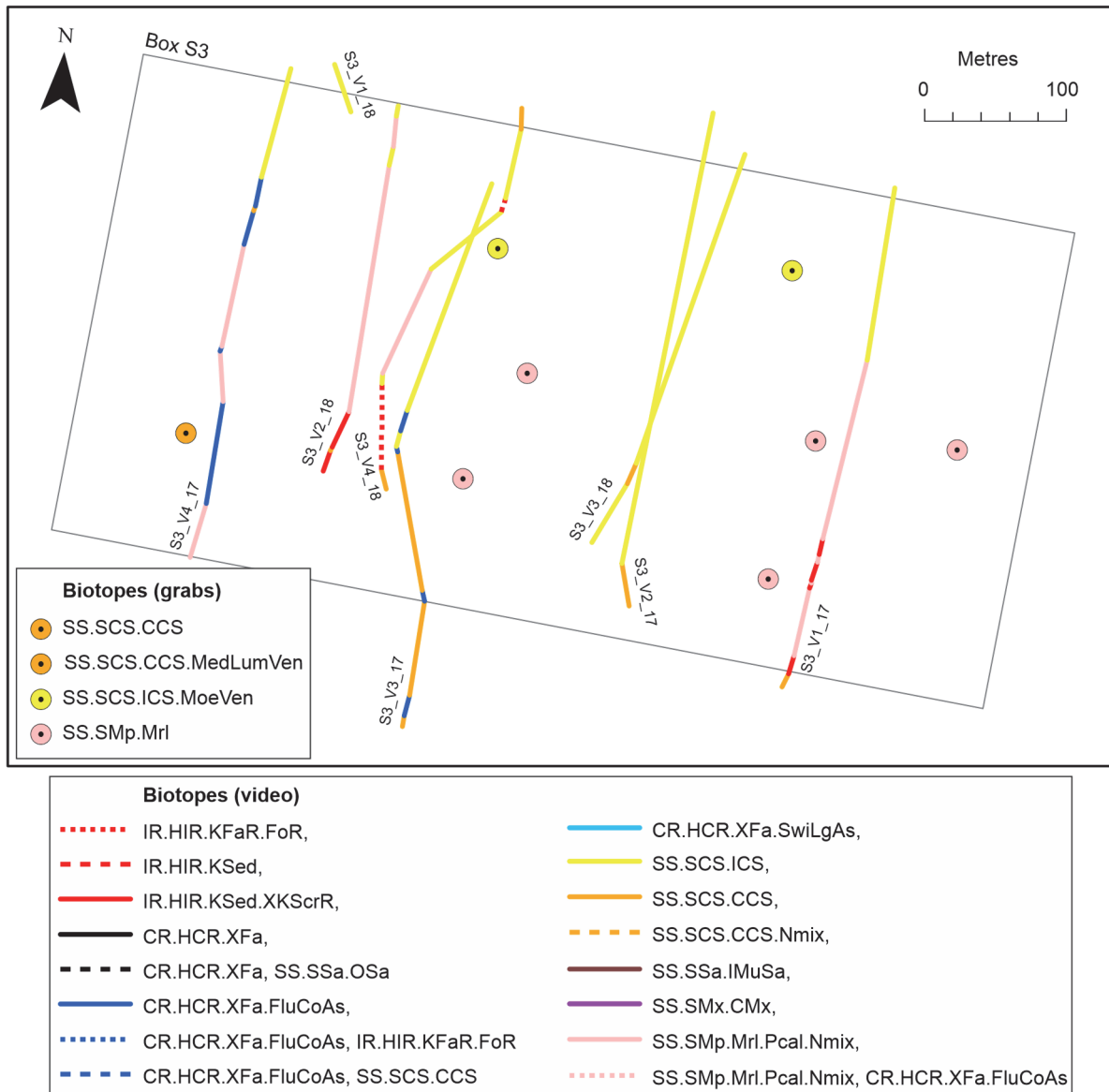


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Figure 4. Distribution of biotope records in the vicinity of the Sound of Barra, box S2.

Box S3 (Figure 5)

Video tows in box S3 mostly traversed medium sand, slightly rippled in places (**SS.SCS.ICS**) and megaripples of coarse sand and shell gravel. Maerl beds were not well developed with live maerl concentrated in wave troughs and attaining around 10% cover in some areas (**SS.SMp.Mrl.Pcal.Nmix**) but less than 3% elsewhere (**SS.SCS.CCS**). Small scoured bedrock patches supported red algal turfs (**IR.HIR.KFaR.FoR**) and kelp parks (**IR.HIR.KSed.XKScrR**). The sedimentary biotopes recorded here were similar to those based on the 2017 infaunal data (Allen, 2019); however, the finer sediments were ascribed to **SS.SSa.CFiSa** for the 2016 survey (Franco *et al.*, 2017; Moore, 2017).

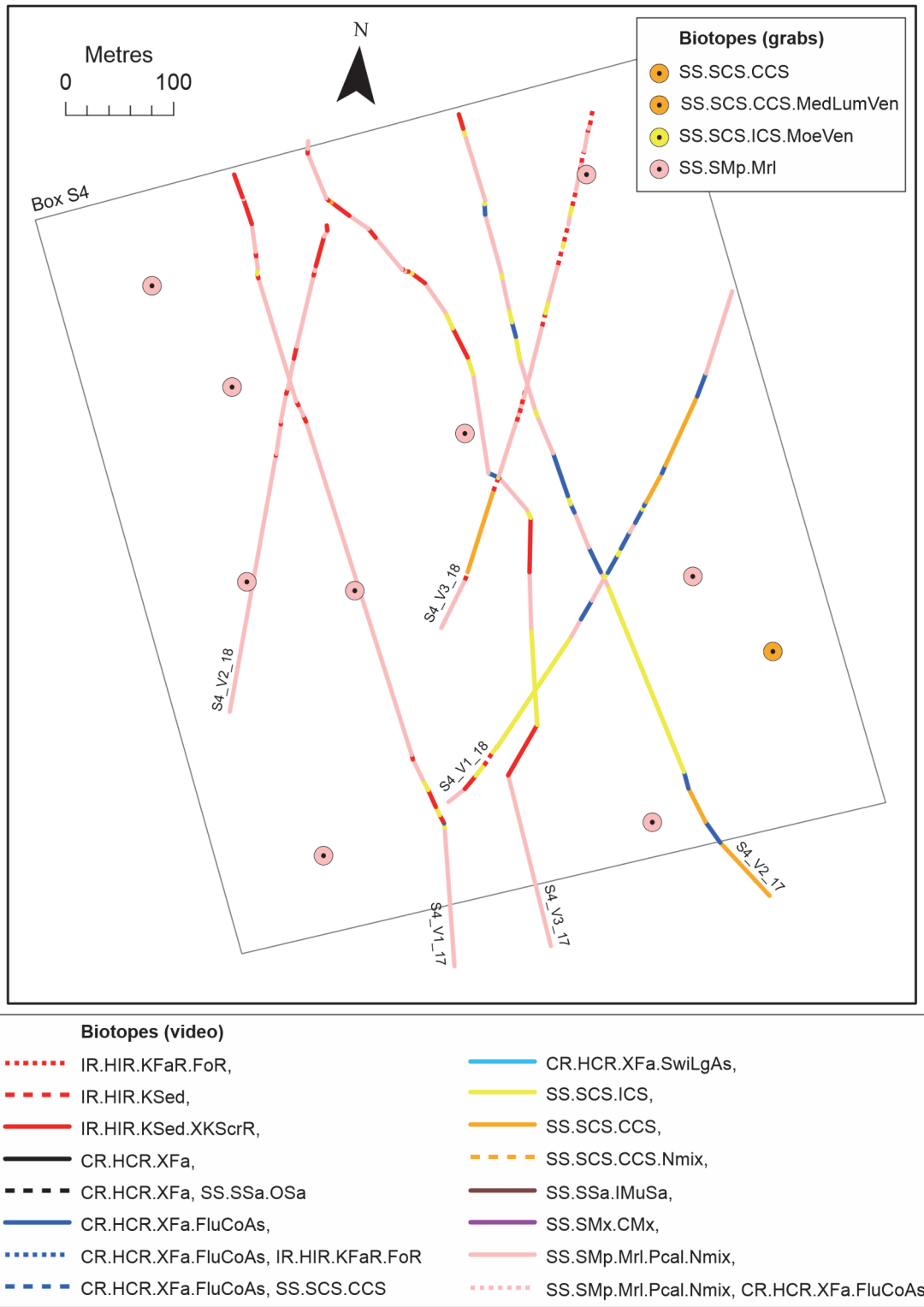


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Figure 5. Distribution of biotope records in the vicinity of the Sound of Barra, box S3.

Box S4 (Figure 6)

Much of box S4 consisted of a mosaic of maerl beds (**SS.SMp.Mrl.Pcal.Nmix**) and scoured bedrock outcrops, with faunal turfs dominating in the slightly deeper eastern region of the box (**HCR.XFa.FluCoAs**), and red algal turfs (**IR.HIR.KFaR.FoR**) and kelp parks (**IR.HIR.KSed.XKScrR**) to the west.



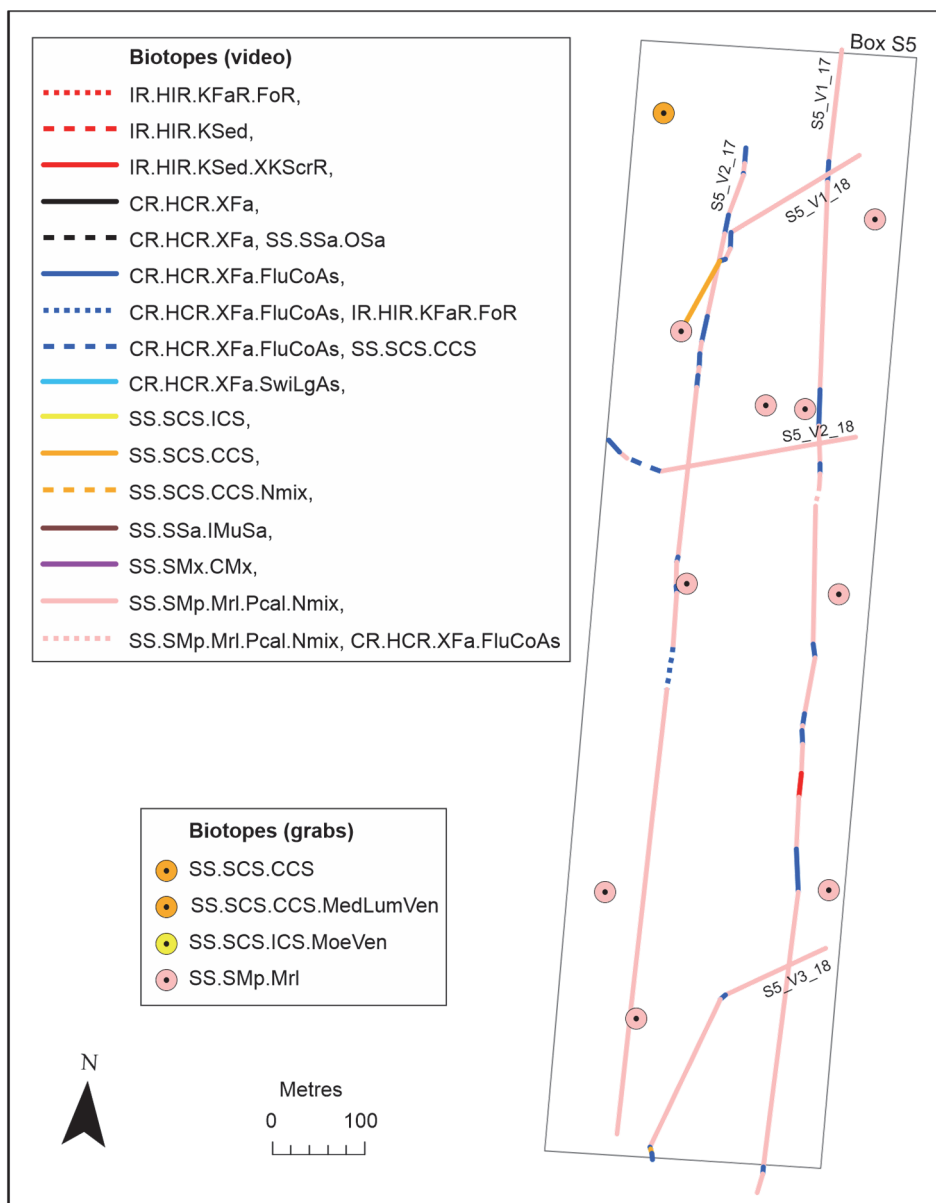
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Figure 6. Distribution of biotope records in the vicinity of the Sound of Barra, box S4.

The maerl bed habitat was particularly well-developed in shallower areas where megarippling was absent or poorly developed, with live cover values reaching 20 - 35% at several points along runs S4_V2 (2018) and S4_V1 (2017). Allen also recorded mainly maerl beds here in 2017 but in 2016 Franco *et al.* (2017) did not consider the live maerl material sufficient to warrant a maerl bed biotope designation, although the contemporaneous video survey recorded widespread distribution of maerl beds here (Moore, 2017). Franco *et al.* (2017) did not record any maerl biotopes throughout the Sound of Barra.

Box S5 (Figure 7)

The habitat in box S5 was found to be predominantly megaripples of coarse sand, shell and maerl gravel, with live maerl coverage around 10% and concentrated in the troughs (**SS.SMp.Mrl.Pcal.Nmix**). Frequent bedrock outcrops largely supported bryozoan and hydroid turfs (**HCR.XFa.FluCoAs**). The sediment biotope interpretation is consistent with Allen (2019) and Moore (2017).

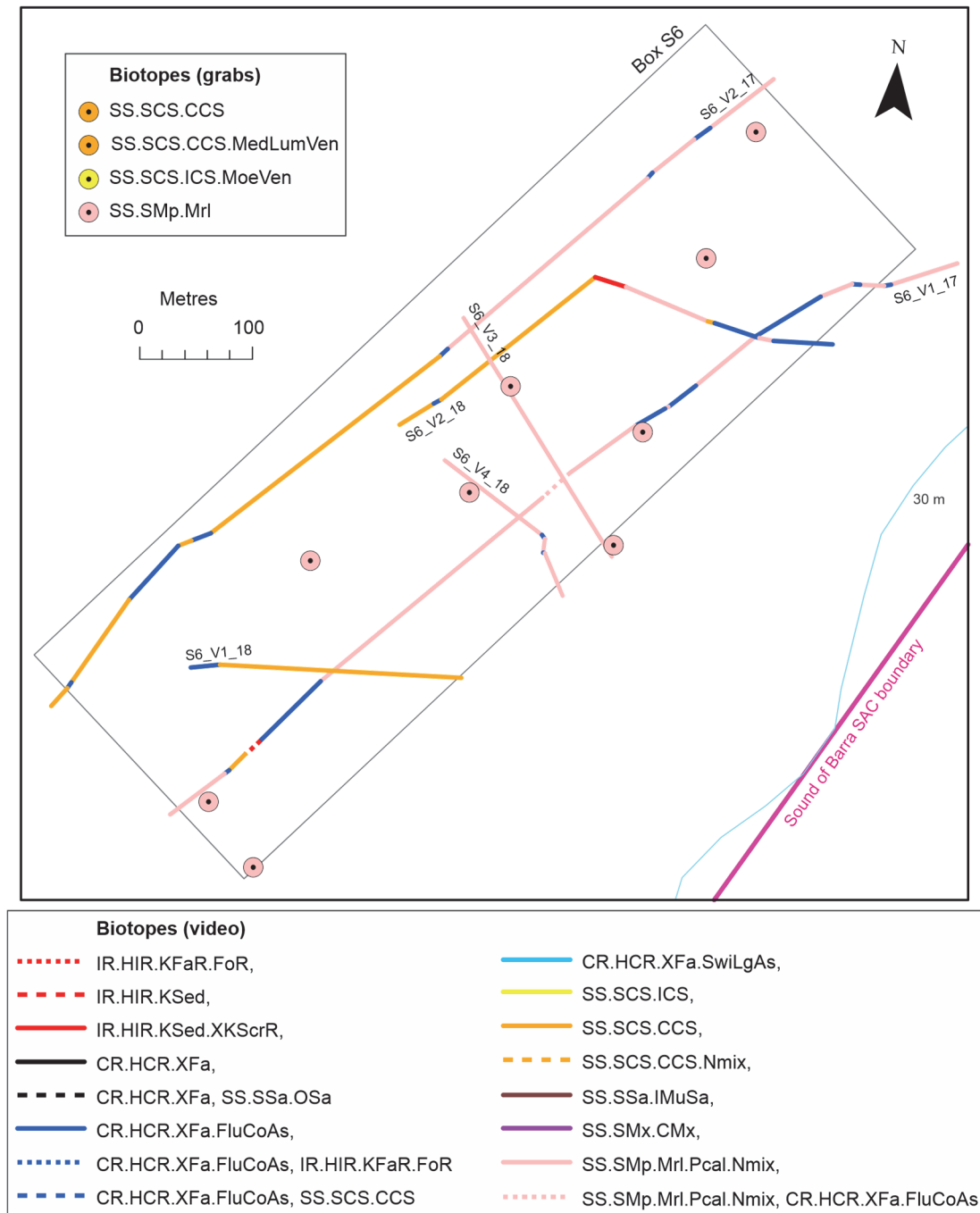


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Figure 7. Distribution of biotope records in the vicinity of the Sound of Barra, box S5.

Box S6 (Figure 8)

The seabed in box S6 was similar to that of box S5 being largely composed of megarippled coarse sand, shell and maerl gravel with poorly developed maerl bed patches with around 10% live cover (**SS.SMp.Mrl.Pcal.Nmix**) interrupted by scoured bedrock outcrops supporting faunal turfs (**HCR.XFa.FluCoAs**). However box S6 also contained extensive megarippled areas supporting very sparse live maerl (1 - 5%) which have been ascribed to **SS.SCS.CCS**, although they were otherwise similar to the maerl bed patches in the box. The pattern of biotopes is similar to that described by Moore (2017) in 2016. Allen (2017) ascribed all grab samples from the box to **SS.SMp.Mrl.Pcal**.

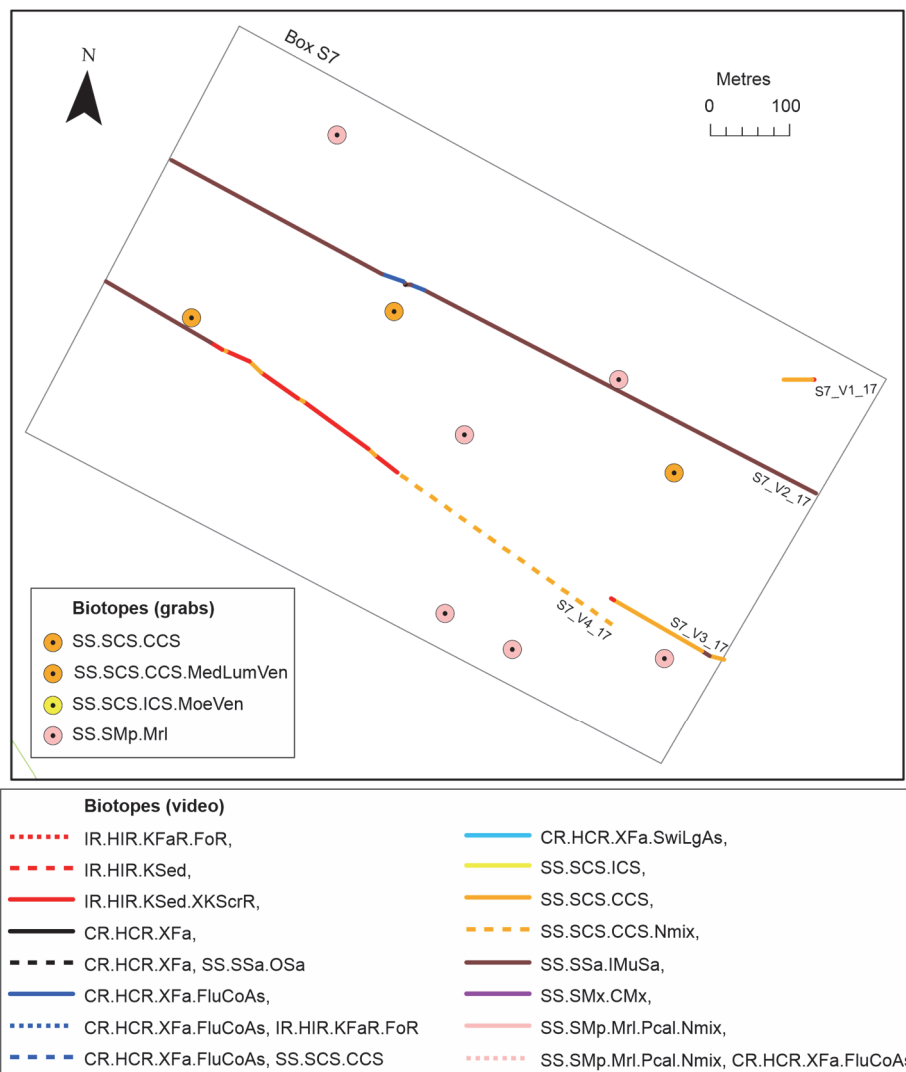


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Figure 8. Distribution of biotope records in the vicinity of the Sound of Barra, box S6.

Box S7 (Figure 9)

Video survey of this box was not carried out in 2018. In 2017 the relative shelter of box S7 (see Figure 3) is reflected in the predominance of slightly muddy, fine - medium sands with faunal casts and mounds and supporting *Turritella communis* and *Ascidella aspersa* and a brown film of probably detrital material. This habitat has been ascribed to **SS.SSa.IMuSa**, consistent with the interpretation of such sediments in the area in 2016 (Franco *et al.*, 2017; Moore, 2017). Allen (2019) regarded most 2017 grab samples from the box as examples of **SS.SMp.Mrl.Pcal**, although photographs of the samples reveal sparse live maerl thalli. Allen (2019) also recorded the presence of **SS.SCS.CCS** here and the video evidence also shows this to occur in the form of mostly megarippled coarse sand, shell and maerl gravel. However, several of the grab samples ascribed to this biotope are located towards the right hand side of the ordination plot (Figure 1) signifying fine sediment communities, and are indeed fine sands with 5% mud content and with *Turritella communis* common. Such samples will correspond to the habitat interpreted as **SS.SSa.IMuSa** based on the video footage. Coarse sediment megaripples along run S7_V4_17 supported the holothurian *Neopentadactyla mixta* indicating the presence of the biotope **SS.SCS.CCS.Nmix**. Scoured bedrock outcrops were also present along this run supporting forests and parks of *Laminaria hyperborea* (**IR.HIR.KSed.XKScrR**), and along the slightly deeper S7_V2_17 where they were coated in dense faunal turfs (**HCR.XFa.FluCoAs**).

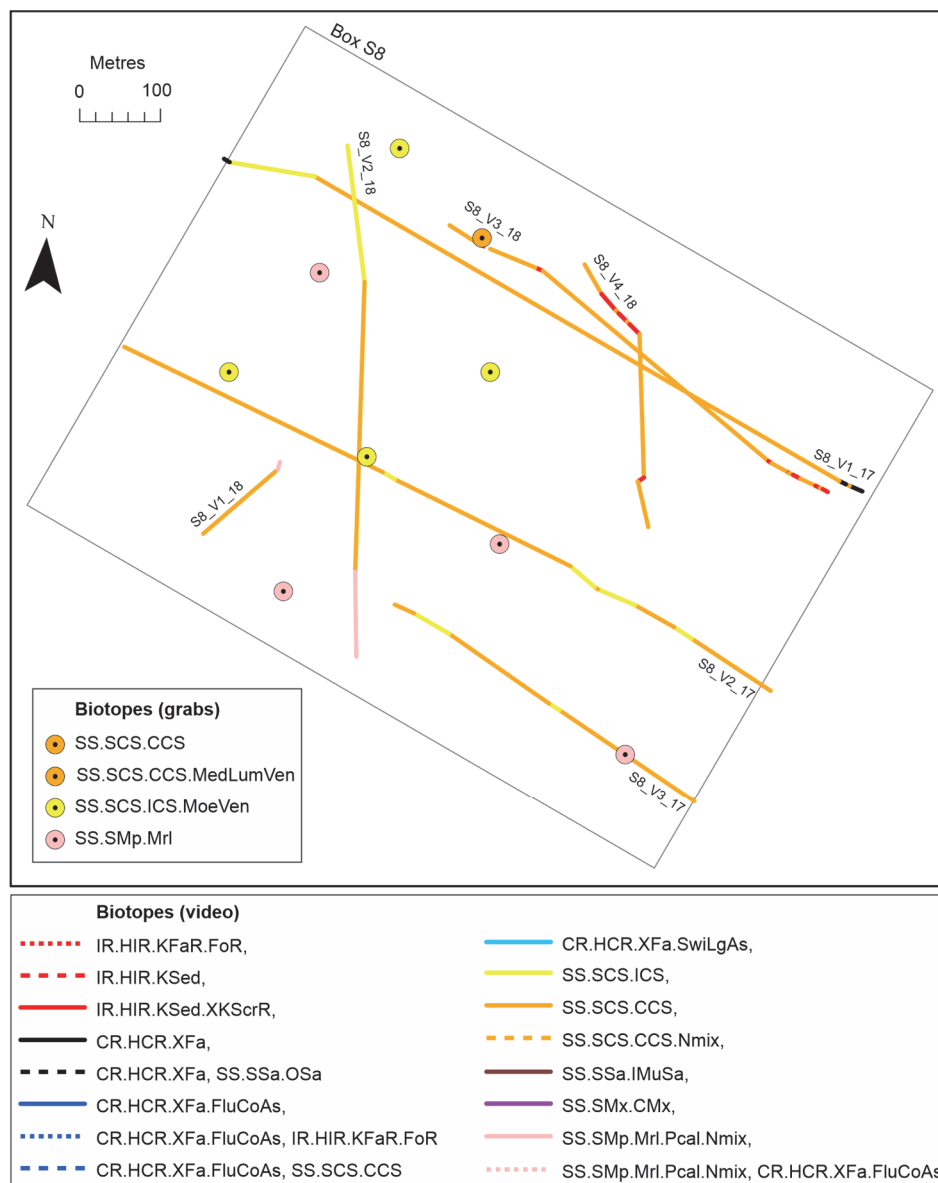


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Figure 9. Distribution of biotope records in the vicinity of the Sound of Barra, box S7.

Box S8 (Figure 10)

The predominant biotope in this box was **SS.SCS.CCS**, characterised by megaripples of coarse sand, shell and maerl gravel with low quantities of live maerl in the wave troughs (up to 3%). The megaripples were interrupted by patches of fine-medium sand. They have been ascribed to **SS.SCS.ICS** but are intermediate in nature between the medium sands found elsewhere (e.g. box S9) and the slightly muddy fine-medium sands of box S7 (**SS.SSa.IMuSa**). Faunal signs included small mounds, casts and tracks and there was a brown dusting of probably detrital material. Scoured bedrock outcrops were relatively sparse in this box and included mainly parks of small *Laminaria hyperborea* (**IR.HIR.KSed.XKScrR**) and dense faunal turfs including the colonial ascidians *Aplidium punctum* and *Clavelina lepadiformis* (**HCR.XFa.FluCoAs**). Infaunal analysis from both 2016 (Franco *et al.*, 2017) and 2017 (Allen, 2019) also identified **SS.SCS.CCS** and **SS.SCS.ICS** biotopes in this box. Allen (2019) also found **SS.SMp.Mrl.Pcal** to be widely distributed but the grab content photographs indicate that live maerl density was low and similar to that recorded by video analysis.



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Figure 10. Distribution of biotope records in the vicinity of the Sound of Barra, box S8.

Box S9 (Figure 11)

As described above (section 3.1.1), box S9 contained non-megarippled, clean medium sands ascribed to **SS.SCS.ICS**, consistent with the infaunal analysis of the region (Franco *et al.*, 2017; Allen, 2019). The sediment was slightly rippled locally and supported sparse *Cancer pagurus* and *Pecten maximus* and a coating of probably fine detritus. The habitat covered most of the surveyed area, with an area of megarippled maerl habitat in the south-eastern sector of the box (**SS.SMp.Mrl.Pcal.Nmix**). Here, live maerl density reached 20 - 30% along several of the video runs. Patches of faunal turfs (**HCR.XFa.FluCoAs**), red algal turfs (**IR.HIR.KFaR.FoR**) and kelp parks (**IR.HIR.KSed.XKScrR**) were scattered on scoured bedrock within the box.

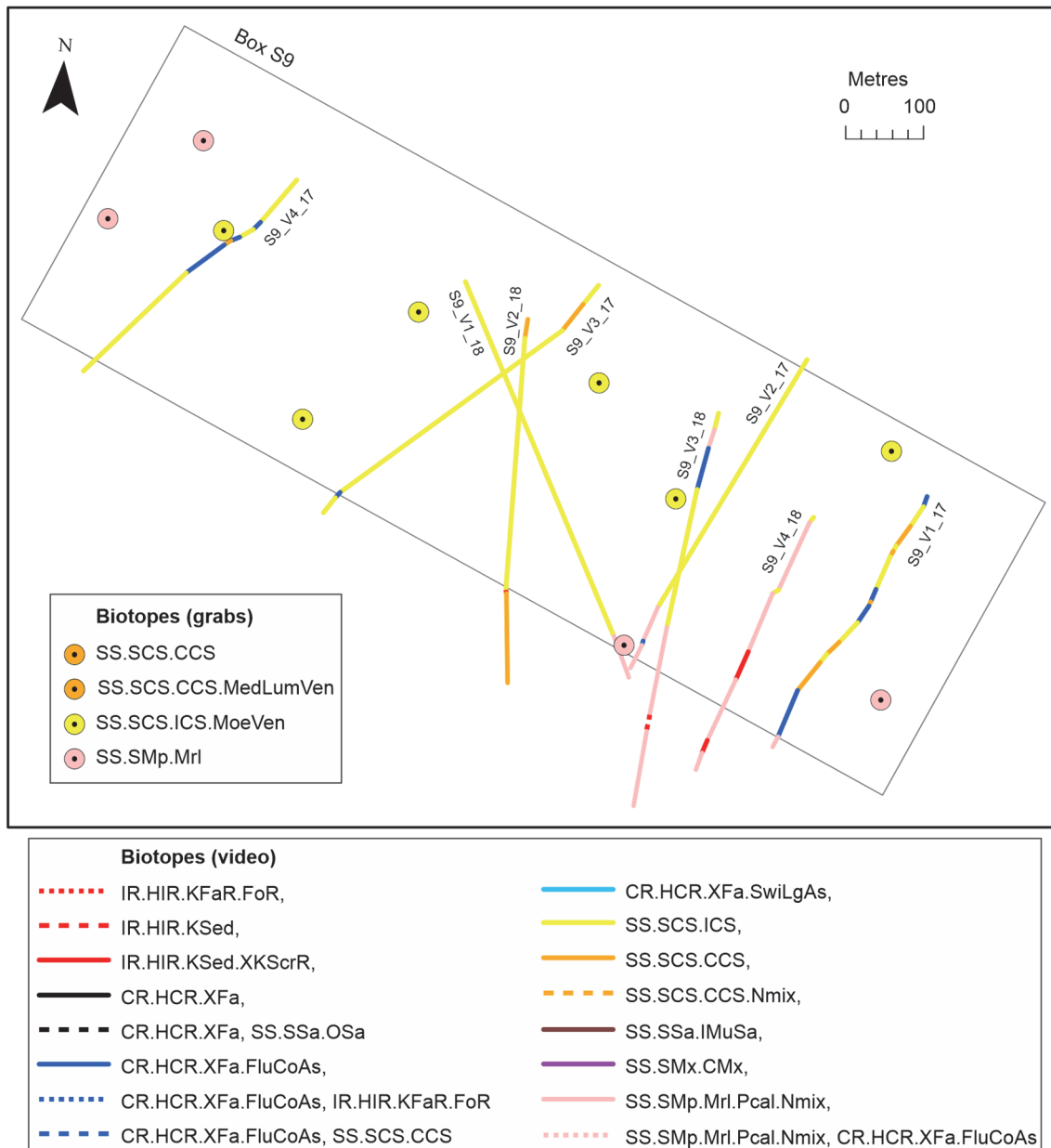
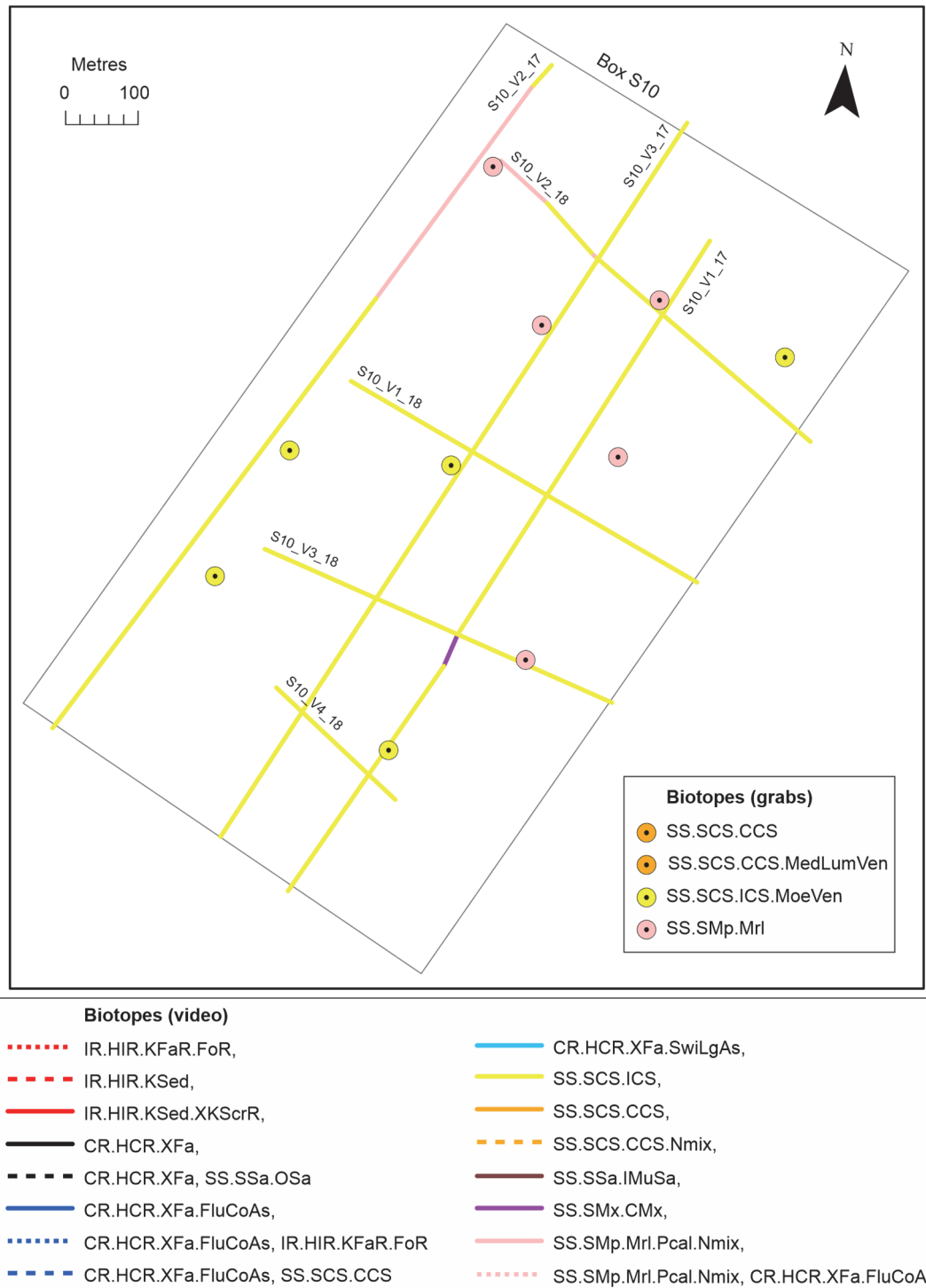


Figure 11. Distribution of biotope records in the vicinity of the Sound of Barra, box S9.

Box S10 (Figure 12)

The strongly dominant habitat in this box was medium sand, often formed into slight ripples and supporting frequent *Asterias rubens* and sparse *Cancer pagurus*, *Pecten maximus* and live maerl (<1% cover) (**SS.SCS.ICS**). A poorly-developed maerl bed was present near the northern corner of the box in the form of megarippled medium and coarse sand with shell gravel and around 10% live maerl thalli in the form of large medallions (**SS.SMp.Mrl.Pcal.Nmix**).



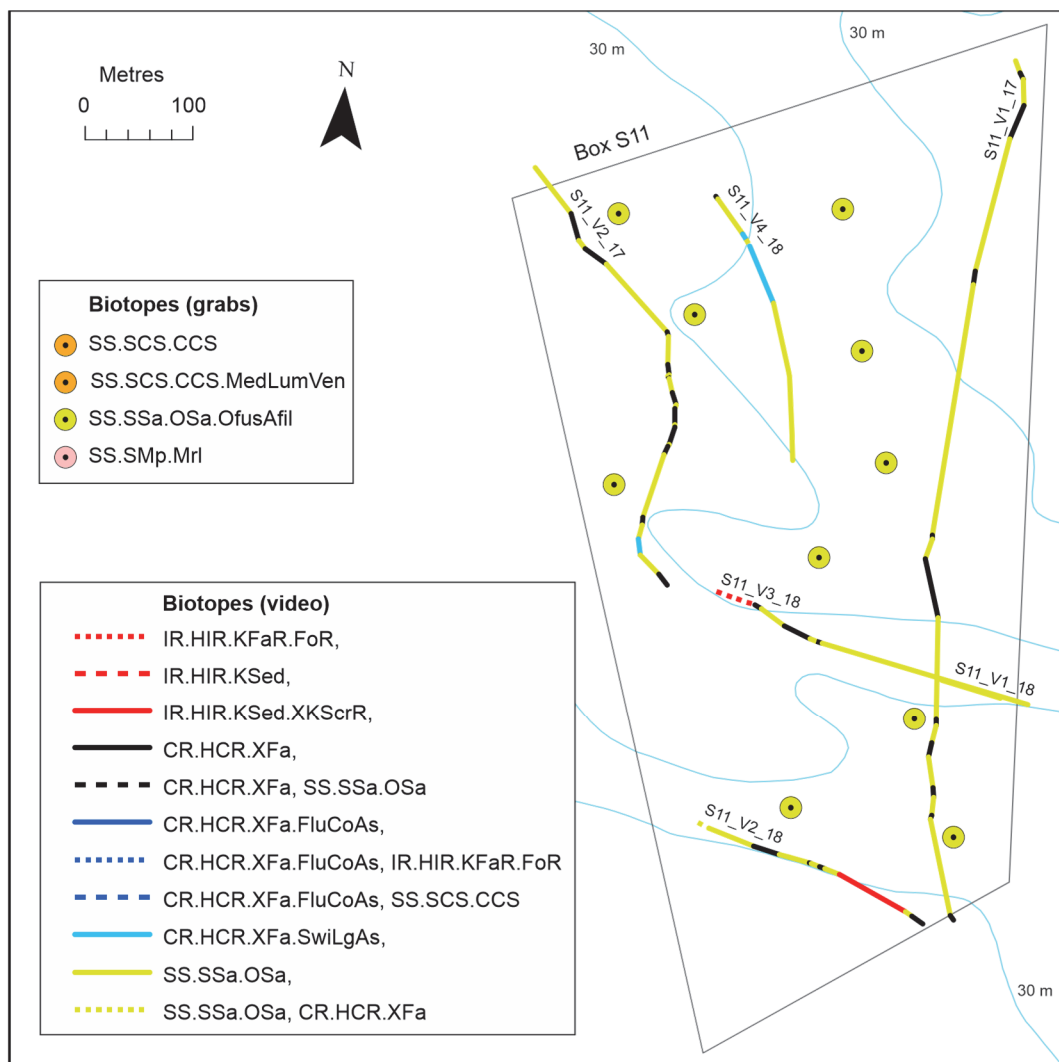
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Figure 12. Distribution of biotope records in the vicinity of the Sound of Barra, box S10.

Conclusions from the video data are largely in accordance with the interpretation of the 2017 infaunal data (Allen, 2017), However, the latter suggests a wider distribution of the maerl habitat, but this is not strongly supported by the grab content photographs. The box was not surveyed by grab in 2016 (Franco *et al.*, 2017).

Box S11 (Figure 13)

Sediments within box S11 were exclusively gravelly muddy sands with shell material and stones supporting scattered hydroid and bryozoan tufts, *Alcyonium digitatum* and *Caryophyllia smithii* and a motile fauna including *Pecten maximus* and *Ophiura ophiura*. *Virgularia mirabilis* was present at several sites. The sediment appeared non-cohesive and the mud content has been reported as 14 – 26% (Allen, 2019). The infauna was quite distinct from the other boxes (Figure 2). Allen (2019) regarded all grab samples taken within box S11 as uncertain examples of the offshore biotope **SS.SSa.OSa.OfusAfil** as they included moderate numbers of the characterising species *Owenia fusiformis* and *Amphiura filiformis*. However, similar moderate numbers of these taxa are also found in **SS.SSa.MuSa** biotopes and they are also characterising species of **SS.SMu.CSaMu** biotopes. The presence of *V. mirabilis*, *Ophiura ophiura* and *O. albida* also indicates similarity with **SS.SMu.CSaMu** biotopes.



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Figure 13. Distribution of biotope records in the vicinity of the Sound of Barra, box S11.

For consistency with the records of Allen (2019) the video samples have been referred to **SS.SSa.OSa**, but this is a highly uncertain attribution, particularly in view of the inshore location and shallow depth (24 - 40 m).

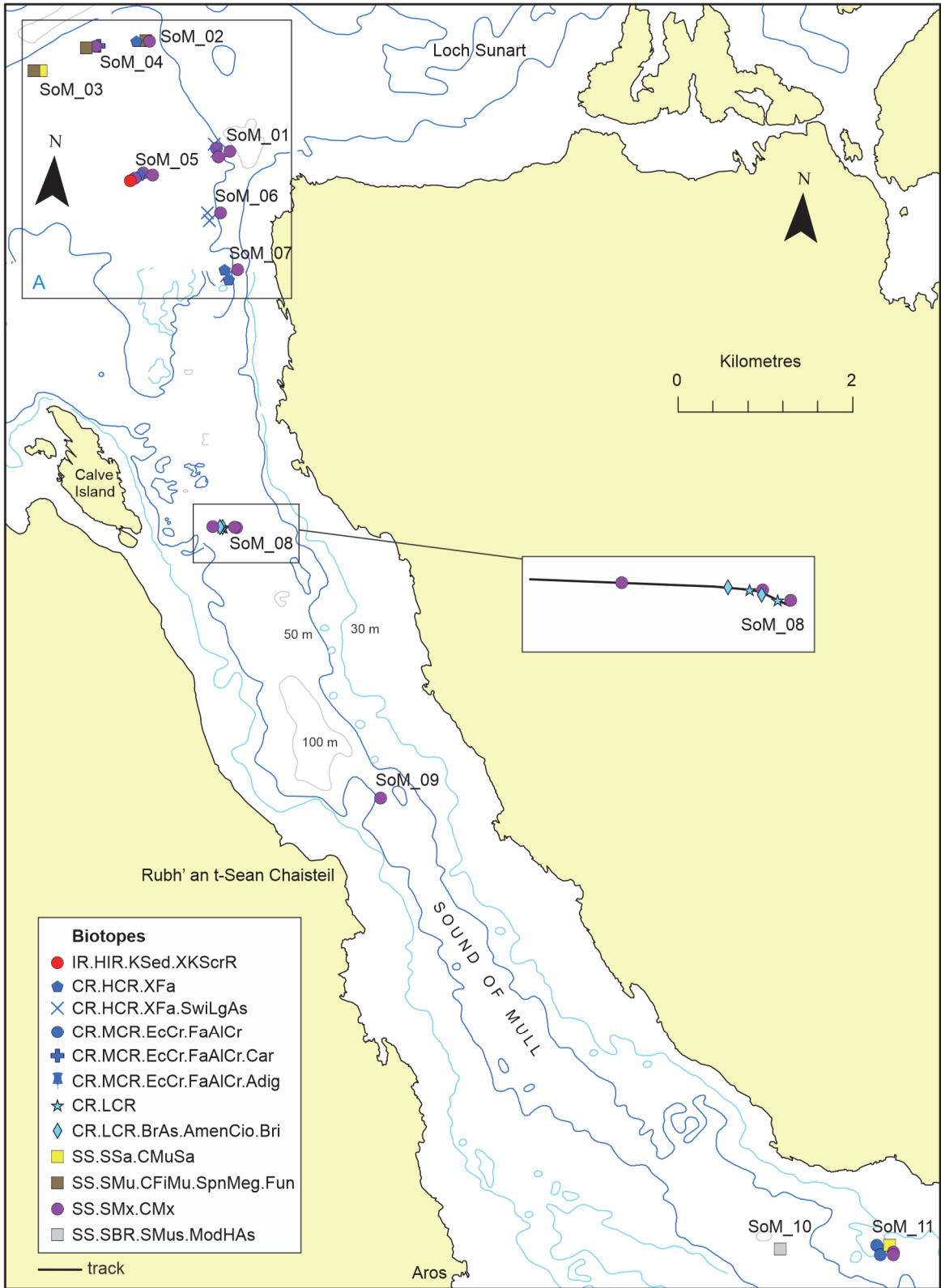
Bedrock outcrops occurred throughout the surveyed area largely supporting dense hydroid and bryozoan turfs including *Flustra foliacea*, *Pentapora foliacea* and *Nemertesia ramosa*. The rock appeared less scoured than the other boxes and no colonial ascidians were evident apart from *Diazona violacea*. The habitat has been referred to **HCR.XFa**. At three bedrock sites the turf included frequent to common (at least locally) *Swiftia pallida* (**CR.HCR.XFa.SwiLgAs**). The fauna was particularly rich at one of these sites (sample S11_V4_18.05), especially with respect to the bryozoan and diverse sponge components and the extensive fields of *Corynactis viridis*.

3.2 Sound of Mull (Figures 14 - 15)

The main grouping of sites was located off the mouth of Loch Sunart at the north-western end of the Sound of Mull (Figure 14, with additional detail in Figure 15). The dominant habitat recorded here over a depth range of 20 - 35 m consisted of mixed sediments of varying proportions of muddy sand, gravel and pebbles supporting *Leptometra celtica*, locally dense, at several stations (**SS.SMx.CMx**). Reef habitats were also widely recorded here over a depth range of 25 - 56 m in the form of bedrock outcrops, boulders and cobbles, often forming a mosaic with mixed sediments. The rocky substrates supported hydroids (abundant in places) and low densities of *Alcyonium digitatum* and *A. glomeratum* (**CR.HCR.XFa**), accompanied at several sites by axinellid sponges, *Caryophyllia smithii* and *Swiftia pallida* (**CR.HCR.XFa.SwiLgAs**), with high densities of *Swiftia* at two sites. Burrowed mud was recorded at three adjacent sites at 30 – 41 m depth, where *Funiculina quadrangularis* was present at low density in sandy mud at two of them, but was abundant in soft mud at the third (**SS.SMu.CFiMu.SpnMeg.Fun**).

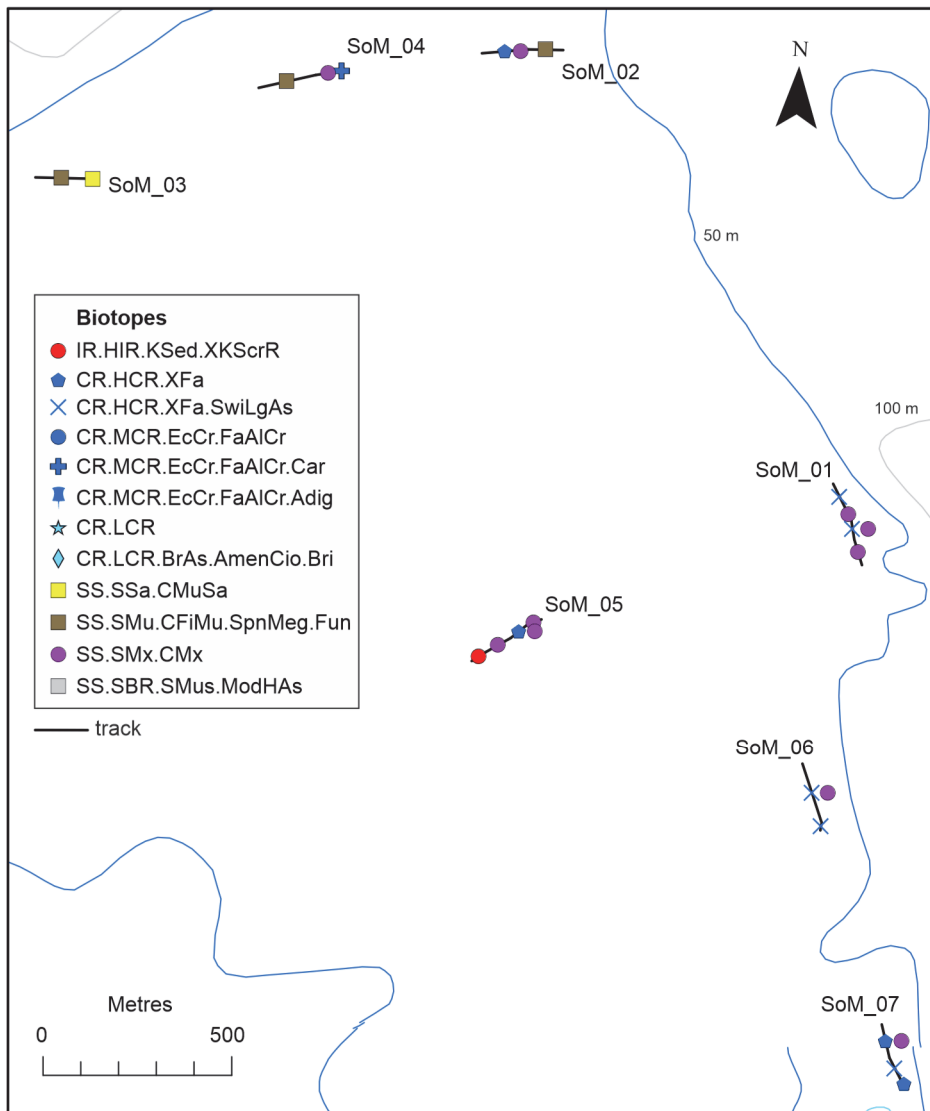
Two sites were located farther down the Sound between Calve Island and Rubh' an t-Sean Chaisteil in relatively deep water (85 – 97 m). The habitat along both runs was predominantly mixed sediments of either gravelly, muddy sands or muddy shell (**SS.SMx.CMx**) but this was interrupted at one site by silted cobbles, boulders and bedrock supporting dense *Ophiothrix fragilis* (**CR.LCR.BrAs.AmenCio.Bri**).

A further pair of sites was located east of Aros. At site SoM_11 in relatively shallow water (30 - 34 m) the substrate was predominantly bedrock outcrops, boulders and cobbles mosaicked with sediment (varying in heterogeneity from **SS.SMx.CMx** to **SS.SSa.CMuSa**). The rock supported a poorly-developed encrusting biota of pink coralline algae, bryozoans, serpulid worms and barnacles and has tentatively been ascribed to **CR.MCR.EcCr.FaAICr**, except where dense *Alcyonium digitatum* was present (**CR.MCR.EcCr.FaAICr.Adig**). At the deeper site SoM_10 (87 - 93 m) the substrate was a gravelly muddy sand with scattered shells including those of *Modiolus modiolus*. Live *Modiolus modiolus* was at least common locally and probably common overall along this run, although the shells were difficult to observe, with many of them deeply inserted into the sediment or obscured by an epifauna of ophiuroids and *Alcyonium digitatum*. The site was characterised by high densities of small *Aequipecten opercularis* and *Thyonidium* sp. The site is subject to fairly weak tidal currents (up to 0.7 kt at springs – see Admiralty chart). The habitat shares characteristics with several *Modiolus* biotopes, as well as **SS.SMx.CMx.CIlModHo**, but cannot be firmly ascribed to any of them. It has tentatively been referred to **SS.SBR.SMus.ModHAs**.



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Figure 14. Distribution of biotope records in the Sound of Mull. For detail of inset A, see Figure 15.



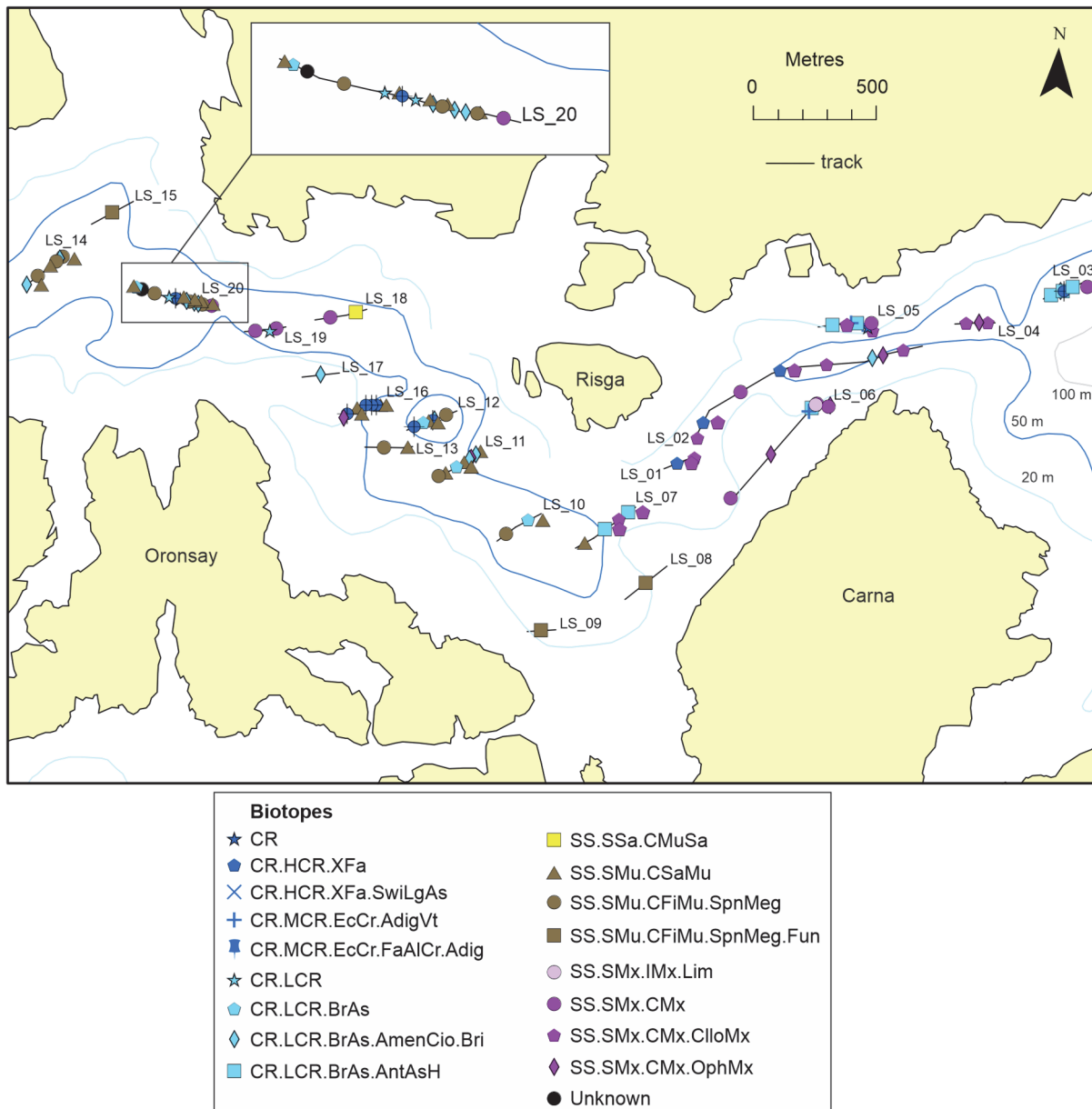
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Figure 15. Distribution of biotope records in the northern survey area of the Sound of Mull (inset A in Figure 14).

3.3 Loch Sunart (Figure 16)

Survey sites were located primarily within a narrowing of Loch Sunart between the islands of Oronsay and Carna, where spring tidal flow attains a speed of 2.5 knots locally (see Admiralty chart). The great majority of sites lay within a fairly narrow depth range of 40 - 75 m. The seabed was composed largely of mixed substrates, often of cobbles and boulders on cohesive muddy sediment or on mixed sediments. Such combinations have generally been interpreted as mosaics of rock and sediment habitats.

Mixed gravelly muddy sands with pebbles were widely distributed and supported hydroid clumps (**SS.SMx.CMx**), together with fields of *Leptometra celtica* at several sites, and often high densities of *Cerianthus lloydii* (**SS.SMx.CMx**) in the eastern half of the survey area. At one site off the north of Carna a mosaic of dense ophiuroids and exposed mixed sediment patches was indicative of the presence of a flame shell bed occupying around 40% of the seabed (**SS.SMx.IMx.Lim**).



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Figure 16. Distribution of biotope records in Loch Sunart.

Bedrock outcrops and boulders and cobbles widely supported hydroids, and where dense turfs were observed north of Carna in a region of strong currents, the biotope **CR.HCR.XFa** was recognised. Elsewhere fairly rich hydroid faunas were commonly accompanied by *Caryophyllia smithii*, *Novocrania anomala* and sometimes *Alcyonium glomeratum*, crinoids and solitary ascidians (**CR.LCR.BrAs.AntAsH**). Stack-like bedrock formations north of Carna supported dense fields of *Alcyonium digitatum* (**CR.MCR.EcCr.AdigVt**). Brittlestar beds were widely recorded throughout the surveyed area reflecting the elevated tidal streams. These took the form of principally *Ophiothrix fragilis* on mixed sediments (**SS.SMx.CMx.OphMx**) or on bedrock, boulders and cobbles. The latter have been assigned to **CR.LCR.BrAs.AmenCio.Bri** due to their generally silted nature and shelter from wave action. Fields of *Leptometra celtica* were recorded at several of these sites. *Swiftia pallida* was recorded fairly widely over the surveyed area but at sufficient density (generally frequent) along four video runs to recognise the biotope **CR.MCR.EcCr.CarSwi.LgAs**. The substrate was chiefly silted bedrock and boulders also supporting *Caryophyllia smithii* as well as low densities of hydroids and *Alcyonium glomeratum*.

Sediments with a high mud content were only recorded west of Carna over a region of relatively weaker currents. These took the form principally of sandy muds or at least cohesive muddy sands, with many of the sites supporting fields of *Leptometra celtica*. Where the sand content appeared higher and megafaunal burrows were sparse or absent sites have been referred to **SS.SMu.CSaMu**. Softer sediments supporting moderate densities of burrowers, particularly *Calocaris macandreae* and *Nephrops norvegicus*, have mostly been assigned to **SS.SMu.CFiMu.SpnMeg**. They do, however, represent poorly developed examples of the type, lacking any seapens but supporting *Arctica islandica* and sparse *Pachycerianthus multiplicatus*. At three sites located in areas of slacker currents but over a wide depth range from 25 - 89 m, the burrowed mud habitat was better developed, supporting seapens including frequent - common *Funiculina quadrangularis*, as well as *P. multiplicatus* (**SS.SMu.CFiMu.SpnMeg.Fun**).

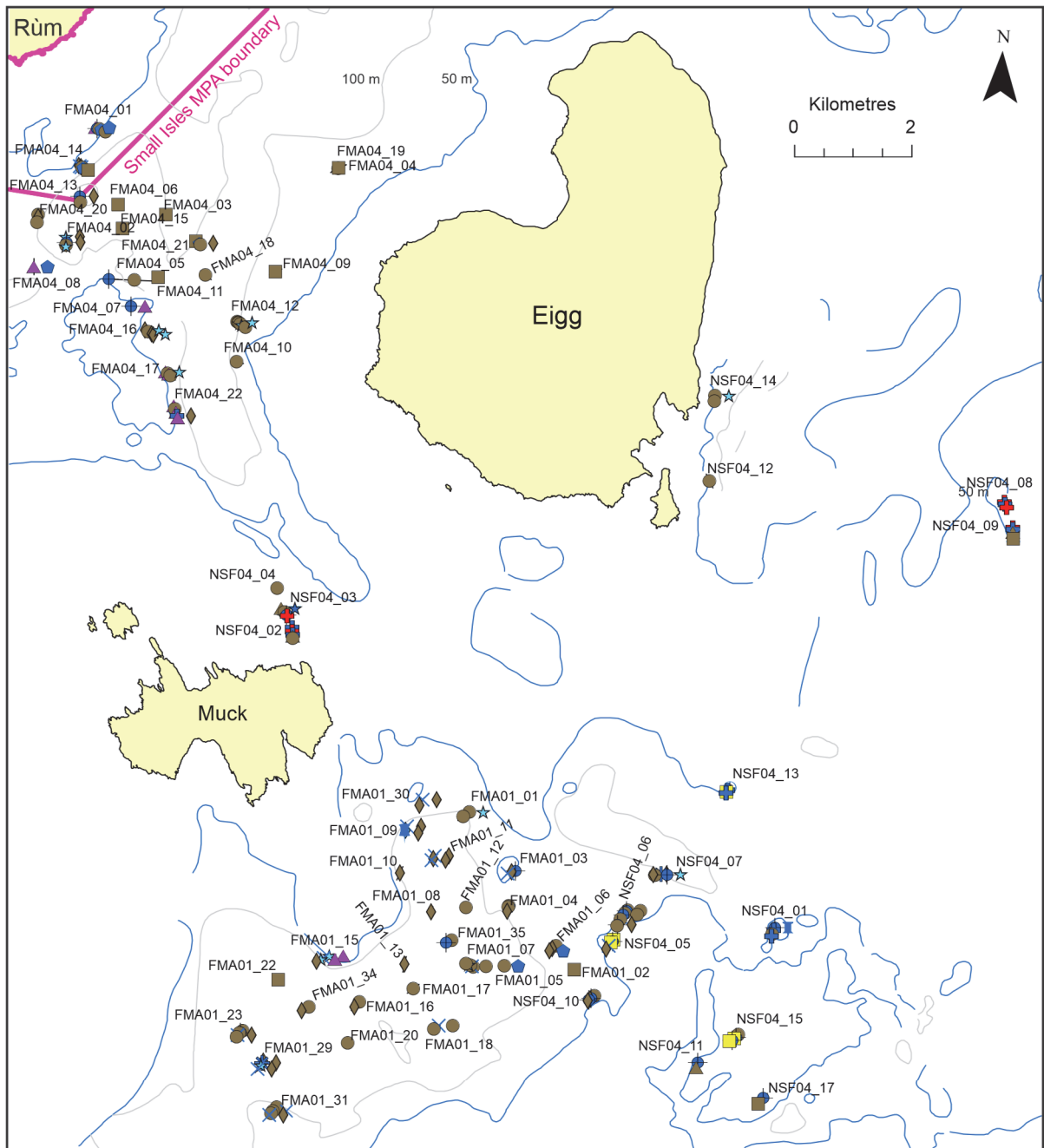
3.4 Small Isles (Figure 17)

Most of the video runs off the Small Isles were located in two clusters – a northern group in the Sound of Rùm between the islands of Rùm and Eigg, and a southern group southeast of Muck.

The northern group lay in deep water between 53 m and 177 m, with most of them lying beyond the 100 m contour. The predominant habitat recorded was mud burrowed by high numbers of *Calocaris macandreae* and *Nephrops norvegicus*, accompanied at some stations by generally low densities of *Pennatula phosphorea* and/or *Virgularia mirabilis* (**SS.SMu.CFiMu.SpnMeg**). *Funiculina quadrangularis* was recorded widely in fairly high numbers (frequent - common) in well burrowed soft mud (**SS.SMu.CFiMu.SpnMeg.Fun**), with *Pachycerianthus multiplicatus* also present at one such site. Cohesive muddy sediments (mostly sandy muds) supporting sparse or no megafaunal burrowers and no seapens at depths of 76 – 157 m have been referred to the biotope **SS.SMu.OMu**. These slightly harder sediments did however often support fields of dense *Leptometra celtica*. Mixed sediments of gravelly muddy sand were recorded over a wide depth range of 53 – 170 m, particularly in the south-western region of this station cluster, and several of these also supported fields of *L. celtica* as well as frequent *P. multiplicatus*. Patches of silted bedrock, boulders and cobbles were widely scattered throughout the area. Where they supported a dense hydroid turf such habitats have been referred to **CR.HCR.HFa**, or at two sites where *Swiftia pallida* and axinellid sponges were also present, poor examples of **CR.HCR.XFa.SwiLgAs**. *Swiftia pallida* was also recorded at a further five sites, mostly with a relatively poorly-developed hydroid component (**CR.MCR.EcCr.CarSwi.LgAs**), but with dense fields of *L. celtica* at three of these sites.

Three sites were located in shallower waters (15 – 54 m) off the northern coastline of Muck. Poorly-developed examples of burrowed mud were recorded here in deeper water (**SS.SMu.CFiMu.SpnMeg**), with cohesive muddy sand or sandy muds at 21 - 30 m depth supporting only sparse small burrows, together with *Ophiura* spp. and *Cerianthus lloydii* (**SS.SMu.CSaMu**). Also in shallower waters here (15 - 29 m) patches of silted bedrock and boulders supported a foliose red algal turf (**IR.HIR.KFaR.FoR**), or dense *Caryophyllia smithii* (**CR.MCR.EcCr.FaAlCr.Car**), at one site in association with frequent *Swiftia pallida* (**CR.MCR.EcCr.CarSwi.LgAs**).

The southern grouping of stations between Muck and Ardnamurchan were also predominantly located in deep water beyond the 100 m contour. The seabed in this region consisted mainly of muddy sediments assigned largely to two principal biotopes, **SS.SMu.CFiMu.SpnMeg** and **SS.SMu.OMu**. Records of these biotopes spanned a similar depth range (around 50 - 248 m) and were not always clearly distinguishable.



Biotopes		
+	IR.HIR.KFaR.FoR	■ SS.SSa.CMuSa
★	CR	▲ SS.SMu.CSaMu
✳	CR.HCR.DpSp.PhaAxi	● SS.SMu.CFiMu.SpnMeg
◆	CR.HCR.XFa	■ SS.SMu.CFiMu.SpnMeg.Fun
✕	CR.HCR.XFa.SwiLgAs	◆ SS.SMu.OMu
⊕	CR.MCR.EcCr.CarSwi.LgAs	▲ SS.SMx.OMx
⊕	CR.MCR.EcCr.CarSp	
⊕	CR.MCR.EcCr.FaAlCr.Car	
⊕	CR.MCR.EcCr.FaAlCr.Adig	
★	CR.LCR	
◆	CR.LCR.BrAs.AmenCio.Bri	

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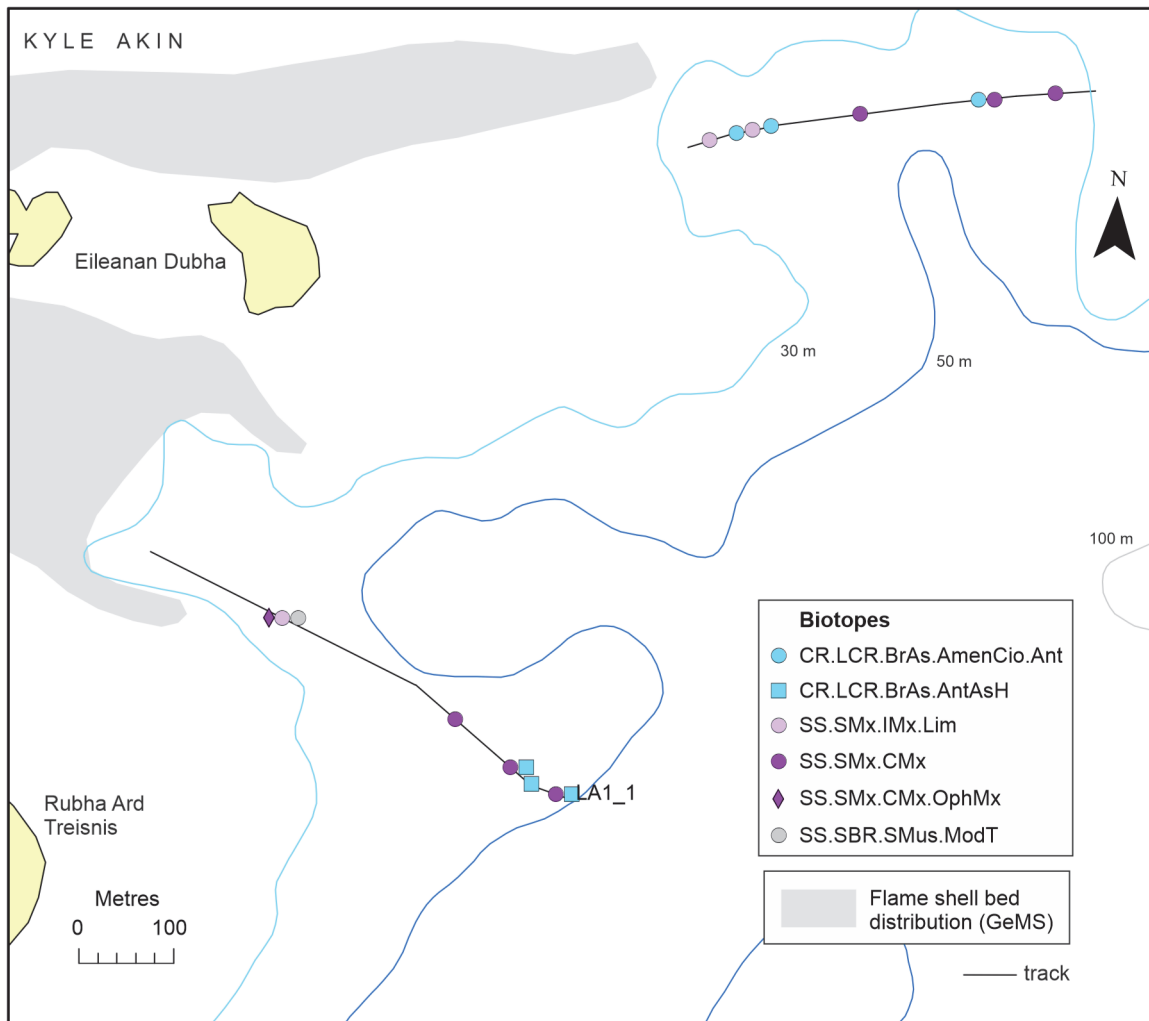
Figure 17. Distribution of biotope records off the Small Isles.

There was a continuum of physical and biological characteristics, with **SS.SMu.CFiMu.SpnMeg** supporting a richer burrowing megafauna including *Calocaris macandreae* and *Nephrops norvegicus* and softer sediments (muds and sandy muds), whereas **SS.SMu.OMu** supported a sparse or absent megafaunal burrowing component on harder cohesive muddy sand and sandy mud. Low densities of *Virgularia mirabilis* were

recorded at some of the **SpnMeg** sites and a few *Pennatula phosphorea* were present at both **SpnMeg** and **OMu** sites, although seapens appeared to be largely replaced at the **OMu** sites by sagartiid anthozoans. Low numbers of *Pachycerianthus multiplicatus* and fields of *Leptometra celtica* were recorded at a few of these deep muddy sites, whilst four of the softer mud sites supported frequent - common *Funiculina quadrangularis* (**SS.SMu.CFiMu.SpMg.Fun**). Patches of silted cobbles and boulders, often forming a mosaic with sediment habitats, and silted bedrock outcrops including small cliffs, were scattered throughout the area. The predominant community associated with the stones and bedrock and recorded over a depth range of 39 - 149 m consisted of a hydroid turf with a fairly poorly-developed sponge component including axinellid species and low densities of a few other species, *Caryophyllia smithii* and generally frequent *Swiftia pallida* (**CR.HCR.XFa.SwiLgAs**). At two sites where *S. pallida* was absent the deep sponge biotope **CR.HCR.DpSp.PhaAxi** was recognised. Frequent - common *S. pallida* was also widely recorded at sites with sparse sponge and hydroid components, mainly at shallower depths (29 - 78 m) but occasionally in deep water (173 - 177 m) (**CR.MCR.EcCr.CarSwi.LgAs**). The other principal reef habitat recorded mainly in shallow waters (<50 m depth) consisted of bedrock, boulders and cobbles supporting dense *Caryophyllia smithii* and an encrusting biota of *Parasmittina trispinosa* and, at the shallowest sites, pink coralline algae (**CR.MCR.EcCr.FaAICr.Car**).

3.5 Loch Alsh (Figure 18)

The two video runs in Loch Alsh traversed flame shell beds at their western ends at depths of 33 - 50 m. The flame shell habitat covered around 40 - 50% of the seabed in the form of a mosaic of byssal-bound shells and stones and patches of silty sand (**SS.SMx.IMx.Lim**). A distinct byssal turf was present locally, occupying up to around 85% of the seabed. Along run LA1_1 the flame shell habitat also included live *Modiolus modiolus* (common, at least locally) suggesting the presence of **SS.SBR.SMus.ModT**, although the extent of this biotope was unclear. Patches of dense ophiuroids, dominated by *Ophiothrix fragilis*, were also recorded here (**SS.SMx.CMx.OphMx**). To the east of the flame shell habitat the seabed was composed predominantly of mixed sediments of sand, gravel and pebbles along both runs, with stones supporting abundant serpulid worms, as well as solitary ascidians and *Diazona violacea* (**SS.SMx.CMx**). Bedrock outcrops and scattered boulders and cobbles supported a similar fauna together with *Antedon* spp. (**CR.LCR.BrAs.AmenCio.Ant**), accompanied by frequent hydroids including *Nemertesia antennina* along the southern run LA1_1 (**CR.LCR.BrAs.AntAsh**).



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Figure 18. Distribution of biotope records in Loch Alsh. Flame shell bed shown according to the GeMS database (SNH, 2020).

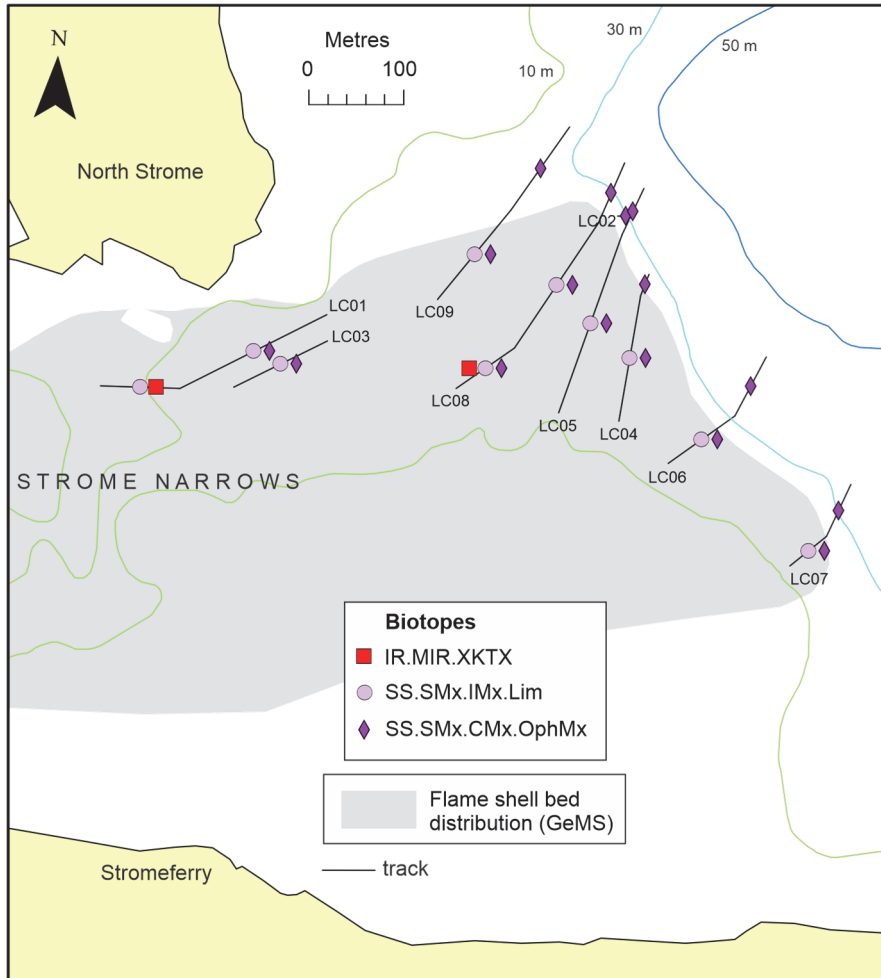
3.6 Loch Carron (Figures 19 – 21)

Survey locations in Loch Carron were in known areas of flame shell bed habitat - at the eastern entrance to Strome Narrows and around Sgeir Bhuidhe in the western, outer region of the loch. In the strongly tide-swept Strome Narrows most runs traversed flame shell beds (**SS.SMx.IMx.Lim**) supporting a dense ophiuroid cover (**SS.SMx.CMx.Oph**) dominated by *Ophiothrix fragilis* over a depth range of 6 - 14 m (Figure 19). The extent of the byssus/stone matrix or turf produced by *Limaria hians* was often difficult to discern due to screening by ophiuroids, although at several locations, particularly off North Shian, extensive areas were clearly present with 65 - 100% seabed coverage. In addition to ophiuroids this turf supported a rich hydroid fauna including *Nemertesia ramosa*, *N. antennina* and *Kirchenpaueria pinnata*, and a dense foliose red algal turf. Common - abundant stands of *Laminaria hyperborea* were associated with the bed at two sites (**IR.MIR.KT.XKTX**). With increasing depth (25 - 38 m) to the east of the narrows the ophiuroid bed continued (**SS.SMx.CMx.Oph**) but the flame shell habitat was lost, the precise boundary of change being difficult to determine due to the high ophiuroid density. *Modiolus modiolus* was observed along several of these deeper runs and attained a SACFOR density of common at two point locations, although how representative this was of the area could not be determined.

Survey sites around Sgeir Bhuidhe were located in all three known flame shell beds: north, east and west of the island (Figure 20). Of the six sites in the vicinity of the east bed, five traversed flame shell bed habitat (**SS.SMx.IMx.Lim**) at 11 - 16 m depth, of which two spanned the margin of the bed. On the bed the byssus/stone turf generally covered 40 - 70% of the seabed usually forming a clean-edged mosaic with coarse sand and supporting a luxuriant red algal turf accompanied by hydroids (particularly *Nemertesia ramosa*, *Rhizocaulus verticillatus* and *Kirchenpaueria pinnata*) and ascidians such as *Ascidiella aspersa* and *Ascidia mentula*. Turf cover declined towards the edge of the bed and the mosaicking became more diffuse until the habitat was replaced by kelp parks and forests of *Laminaria hyperborea* and *Saccharina latissima* on boulders and cobbles on sand (**IR.HIR.KSed.XKScrR**). Site LC10, 100 m north of the mapped bed, has also been tentatively referred to the biotope **SS.SMx.IMx.Lim**. Here, apparently bound stone material occupied around 40% of the seabed, forming an indistinct mosaic with sand patches and supporting a rich algal and hydroid turf.

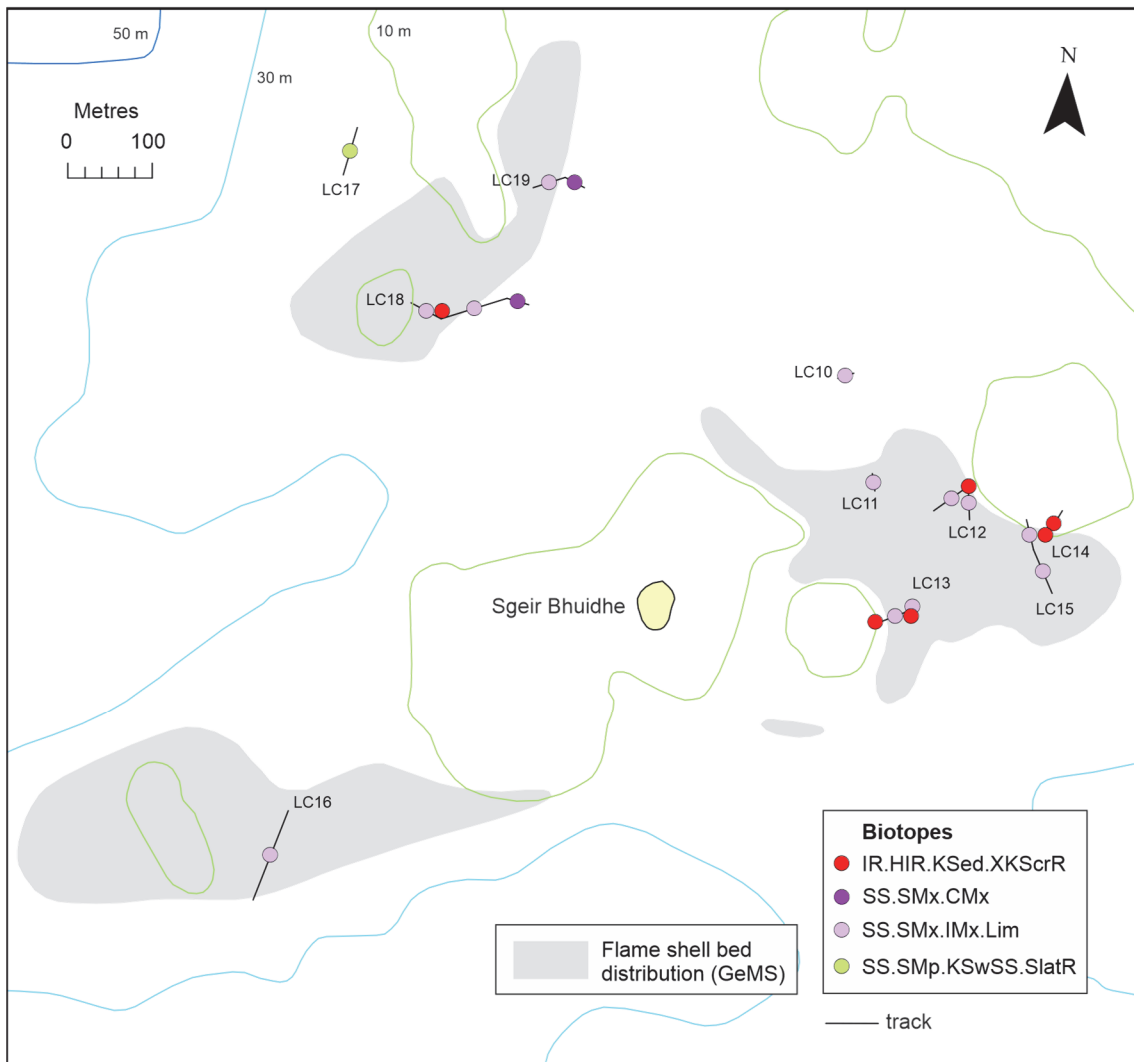
One video run traversed the west bed (Figure 20), the centre of which displayed similar characteristics to that of the better-developed regions of the east bed. However, turf cover reduced from around 50% to scattered patches occupying 10 – 20% at the ends of the run, presumably close to the bed margins.

Three sites were located around the north flame shell bed (Figure 20). The habitat at site LC17 90 m north-west of the mapped bed consisted of a mixed kelp park on a stony, sandy sediment which supported a dense red algal turf, superficially resembling that overlying flame shell turfs in the area (but ascribed to **SS.SMp.KSwSS.SlatR**). The other two sites traversed flame shell bed habitat at 12 - 14 m (**SS.SMx.IMx.Lim**). Turf development (mostly 25 - 40% cover) was generally lower than that observed on the east bed, at both sites being represented by scattered nests at the edge of the bed before a fairly sharp transition to mixed, stony, sand substrates apparently devoid of *Limaria hians*. (**SS.SMx.CMx**). The transition corresponded with the appearance of scallop dredge scars, faintly visible at site LC19, but represented by distinct parallel lines of pebbles and cobbles at site LC18 (Figure 21).



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Figure 19. Distribution of biotope records in Strome Narrows, Loch Carron. Flame shell bed shown according to the GeMS database (SNH, 2020).



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Figure 20. Distribution of biotope records around Sgeir Bhuidhe, Loch Carron. Flame shell bed shown according to the GeMS database (SNH, 2020).

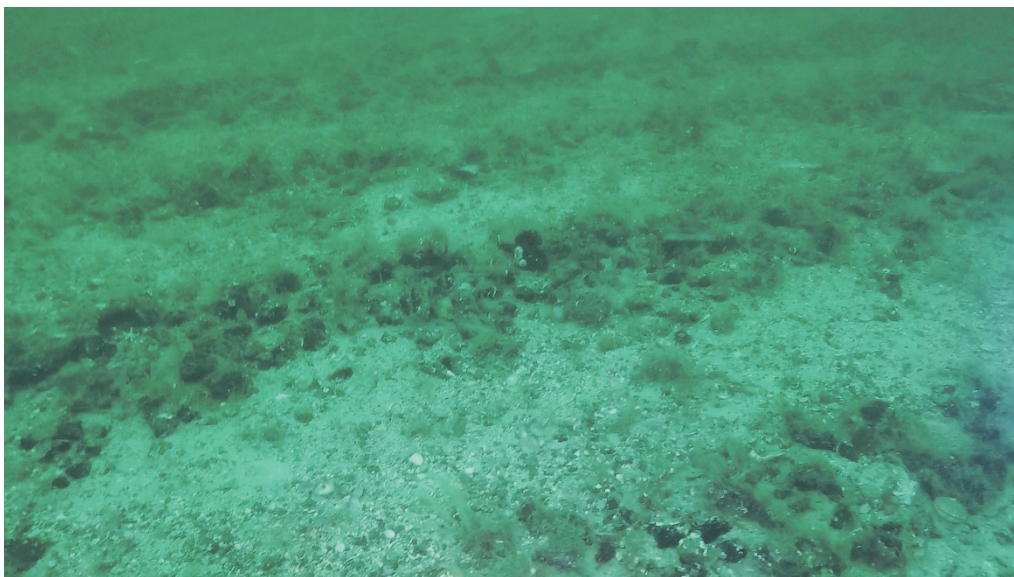
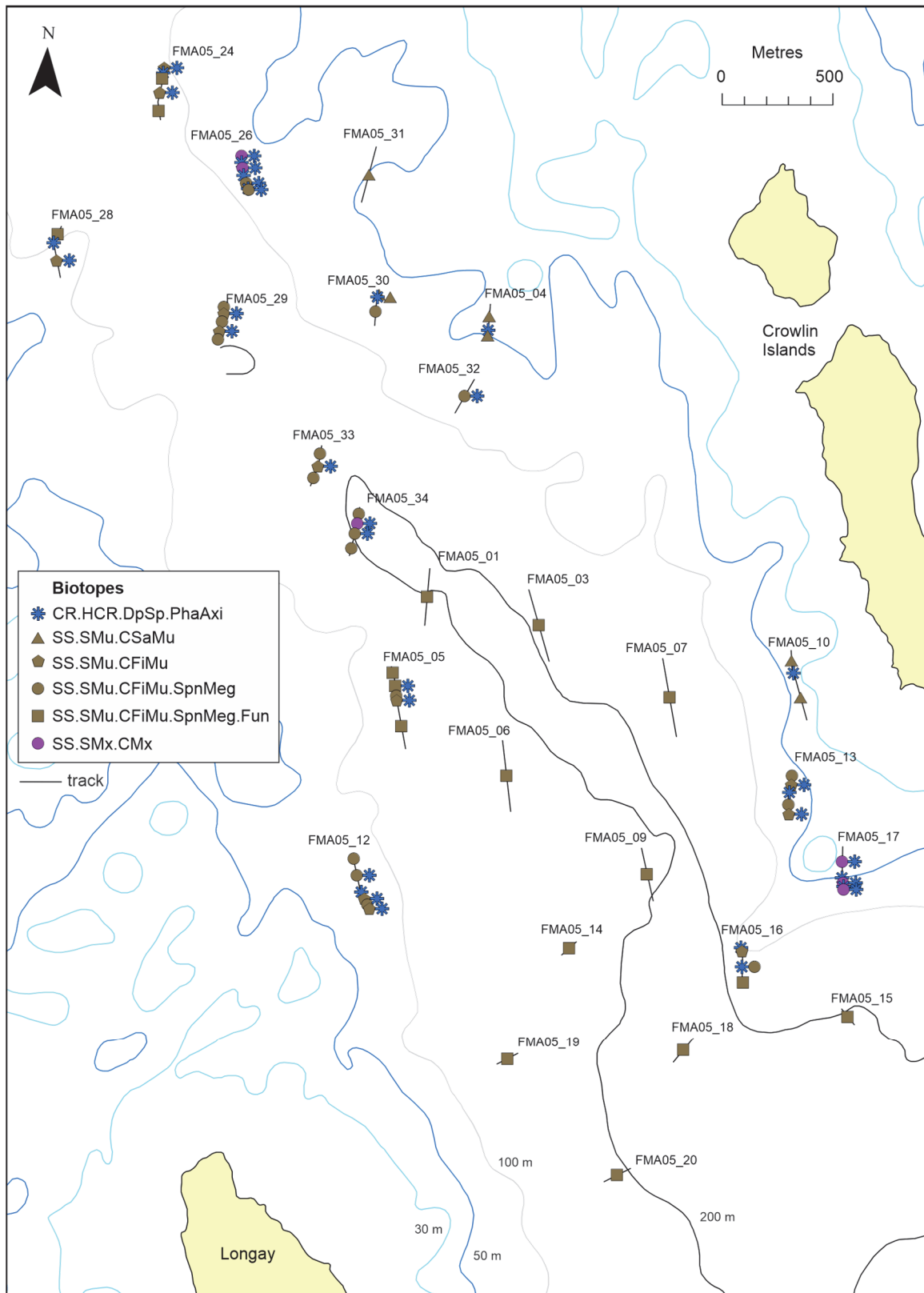


Figure 21. Scallop dredge scars at site LC18 off Sgeir Bhuidhe in Loch Carron.

3.7 Inner Sound (Figure 22)

This survey was centred on the deep channel running between the Crowlin Islands and Longay. In the centre of the channel below the 100 m depth contour the seabed was largely composed of soft mud densely burrowed by *Calocaris macandreae* and *Nephrops norvegicus* and supporting frequent *Funiculina quadrangularis* and *Pachycerianthus multiplicatus* (frequent at several stations) (**SS.SMu.CFiMu.SpnMeg.Fun**). Other notable species recorded here included the large holothurians *Mesothuria intestinalis* and *Parastichopus tremulus*, the latter exceeding 30 cm in length. Muds with a sparser megafaunal burrowing community and lacking seapens were also present at a few sites in deep water (to 218 m) but also extended into shallower depths (58 m). Such sites have been ascribed to **SS.SMu.CFiMu.SpnMeg**. Also present in shallower waters (39 - 75 m) along the eastern side of the channel were areas of cohesive muddy sand supporting *Turritella communis* and sparse megafaunal burrows and *Pennatula phosphorea* (**SS.SMu.CSaMu**). Throughout much of the surveyed area muddy sediments were interrupted by silted bedrock outcrops supporting a sponge fauna dominated by *Phakellia ventilabrum* and/or *Axinella infundibuliformis* and possibly *Iophon nigricans*. Such sites have been considered to represent poor examples of the biotope **CR.HCR.DpSp.PhaAxi**, although the presence of an ascidian fauna including *Ascidia mentula*, *A. virginea* and *Diazona violacea*, and the brachiopods *Novocrania anomala* and *Terebratulina retusa*, suggest affinities with **CR.LCR.BrAs** biotopes. A similar epibiota was also found to be present on boulders and cobbles scattered on muddy sediments and this has been considered to represent a mosaic of **CR.HCR.DpSp.PhaAxi** with **SS.SMu.CFiMu.SpnMeg**, or, where megafaunal burrows were sparse, **SS.SMu.CFiMu**.



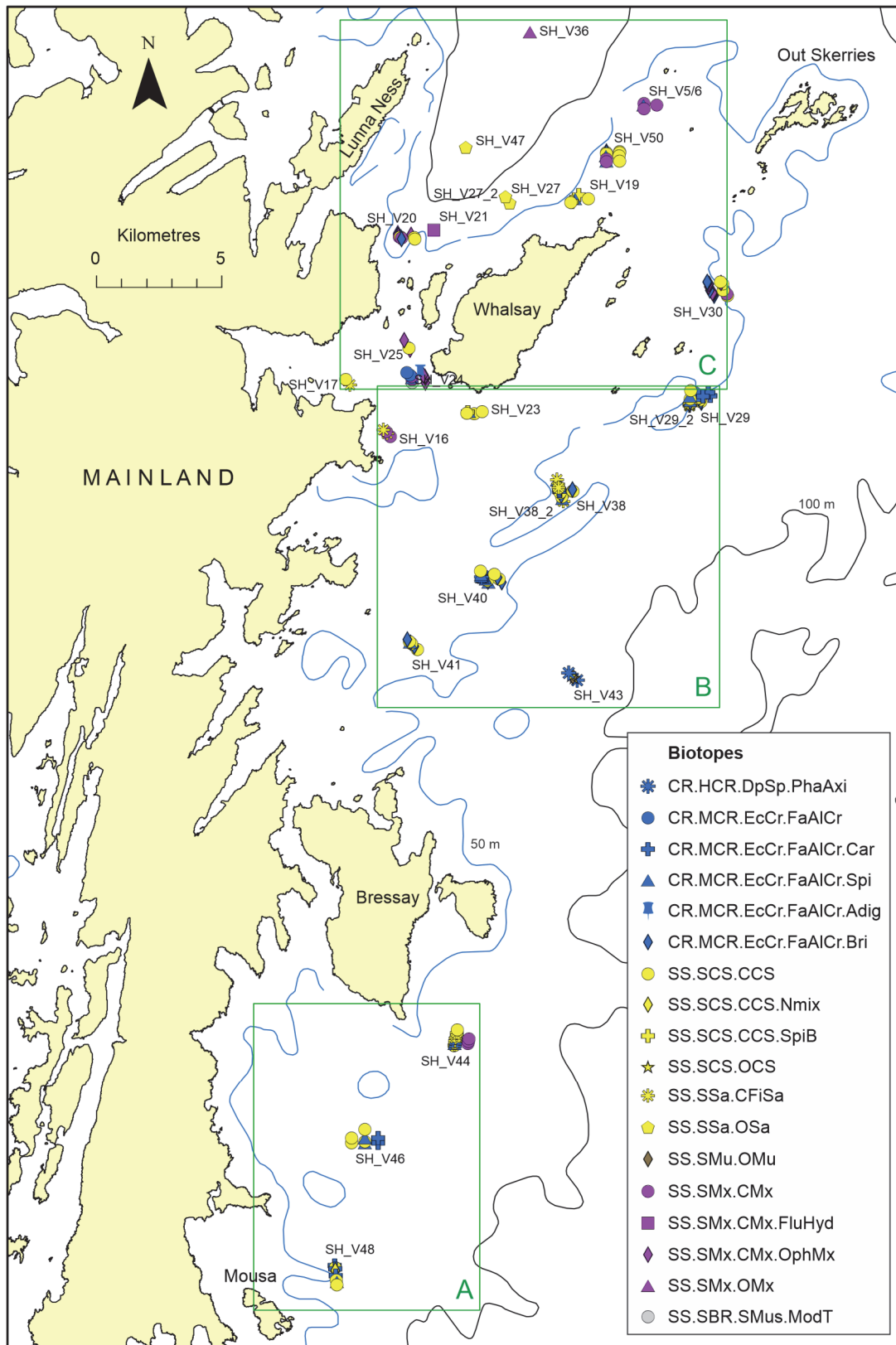
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Figure 22 Distribution of biotope records in the Inner Sound.

3.8 East of Shetland (Figures 23 - 26)

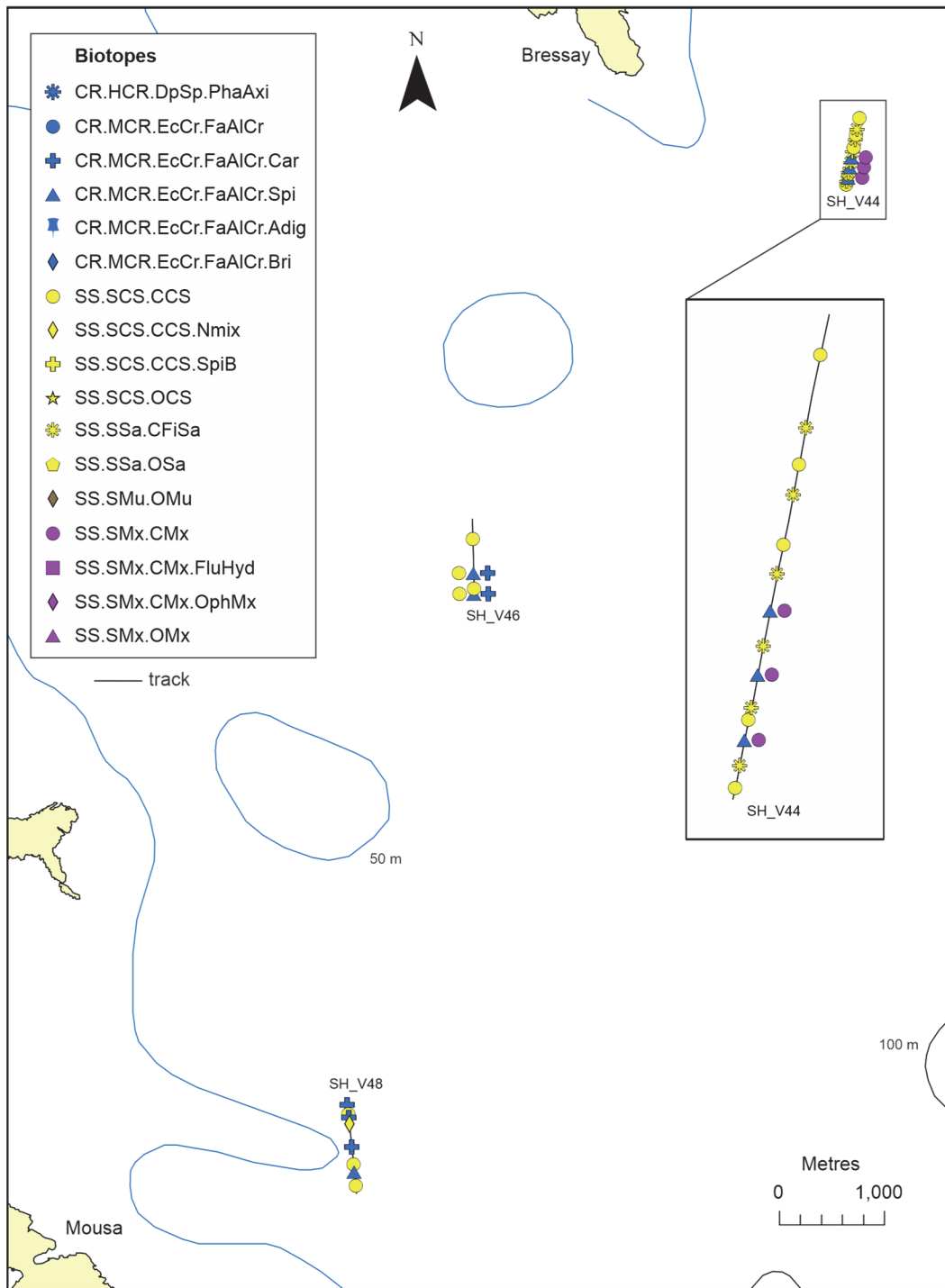
The 25 sites examined ranged over a distance of 50 km off the east of Shetland from Lunna Ness in the north to Mousa in the south, with a southern cluster of three sites between Mousa and Bressay, and a northern cluster of 22 sites around Whalsay (Figure 23). Most of the sites were located in deep water (50 - 140 m) with only six sites in predominantly shallower depths of 18 - 50 m. The most widely recorded habitat throughout the area consisted of megaripples of coarse sand with gravel and shells supporting a generally sparse visible fauna, although pagurids and molgulid ascidians were present in high numbers at several sites. The habitat was observed over a broad depth range (36 - 90 m) and has been referred to the circalittoral biotope **SS.SCS.CCS** rather than the offshore circalittoral **SS.SCS.OCS** due to the clearly wave-disturbed nature of the seabed at this very exposed location. The holothurian *Neopentadactyla mixta* was observed at one of these sites, indicative of the presence of the biotope **SS.SCS.CCS.Nmix**. At several of the sites between Whalsay and Mousa (Figures 24, 25) rippled, fine-medium sands were present over a depth range of 46 - 90 m (**SS.Sa.CFiSa**), often alternating with megarippled coarse sand. The sparse visible biota was similar to that of the coarser sediments with many pagurids and molgulids evident at several sites. Offshore circalittoral biotopes were recognised at just five sites, with most of them predominantly sandy and located to the north of Whalsay at depths of 75 - 140 m (Figure 26). The deepest site (SH_V36) was a gravelly sand supporting dense *Aequipecten opercularis* and pagurids (**SS.SMx.OMx**). The shallower sites (SH_V27, SH_27_2 and SH_47) were slightly more sheltered and exhibited hard-packed, muddy sands. Although supporting sparse megafaunal burrows they have been referred to the biotope **SS.SSa.OSa**, as the sediment appeared to have a low mud content and on the borderline between a cohesive and non-cohesive muddy sand. A possible live specimen of *Arctica islandica* was observed at one of these sites. Empty shells of the species were recorded at several of the **SS.Sa.CFiSa** sites. A more clearly cohesive muddy sand sediment supporting megafaunal burrows was recorded at one site at 90 m depth to the south of Whalsay (**SS.SMu.OMu**) (Figure 25). Mixed sediments containing varying proportions of coarse sand, gravel, shells and pebbles and supporting low densities of ophiuroids were widely recorded around Whalsay (**SS.SMx.CMx**), but particularly in Lunning Sound to the west of Whalsay (Figure 26), where tidal currents are accelerated, dense ophiuroid beds were observed composed of *Ophiothrix fragilis*, *Ophiocolina nigra* and *Ophiopholis aculeata* (**SS.SMx.CMx.OphMx**). At one of these sites (SH_V24) at a depth of around 45 m the substrate was composed chiefly of the dead shells of *Modiolus modiolus*, but abundant live specimens were also observed (**SS.SBR.SMus.ModT**). Species diversity appeared to be low.

Bedrock outcrops and concentrations of boulders occurred widely throughout the surveyed area from 18 - 89 m depth, mainly supporting biotic crusts of pink coralline algae (down to 69 m depth), *Spirobranchus* species and *Parasmittina trispinosa* (**CR.MCR.EcCr.FaAlCr.Pom**), often accompanied by dense ophiuroids (**CR.MCR.EcCr.FaAlCr.Bri**) or *Caryophyllia smithii* (**CR.MCR.EcCr.FaAlCr.Car**). At two sites at 45 - 90 m depth between Whalsay and Bressay (SH_V40, SH_V43 – see Figure 25) silted bedrock supported fairly high densities of the sponge, *Axinella infundibuliformis*. These records have been referred to the biotope **CR.HCR.DpSp.PhaAxi**, although they are at best low diversity examples of the type.



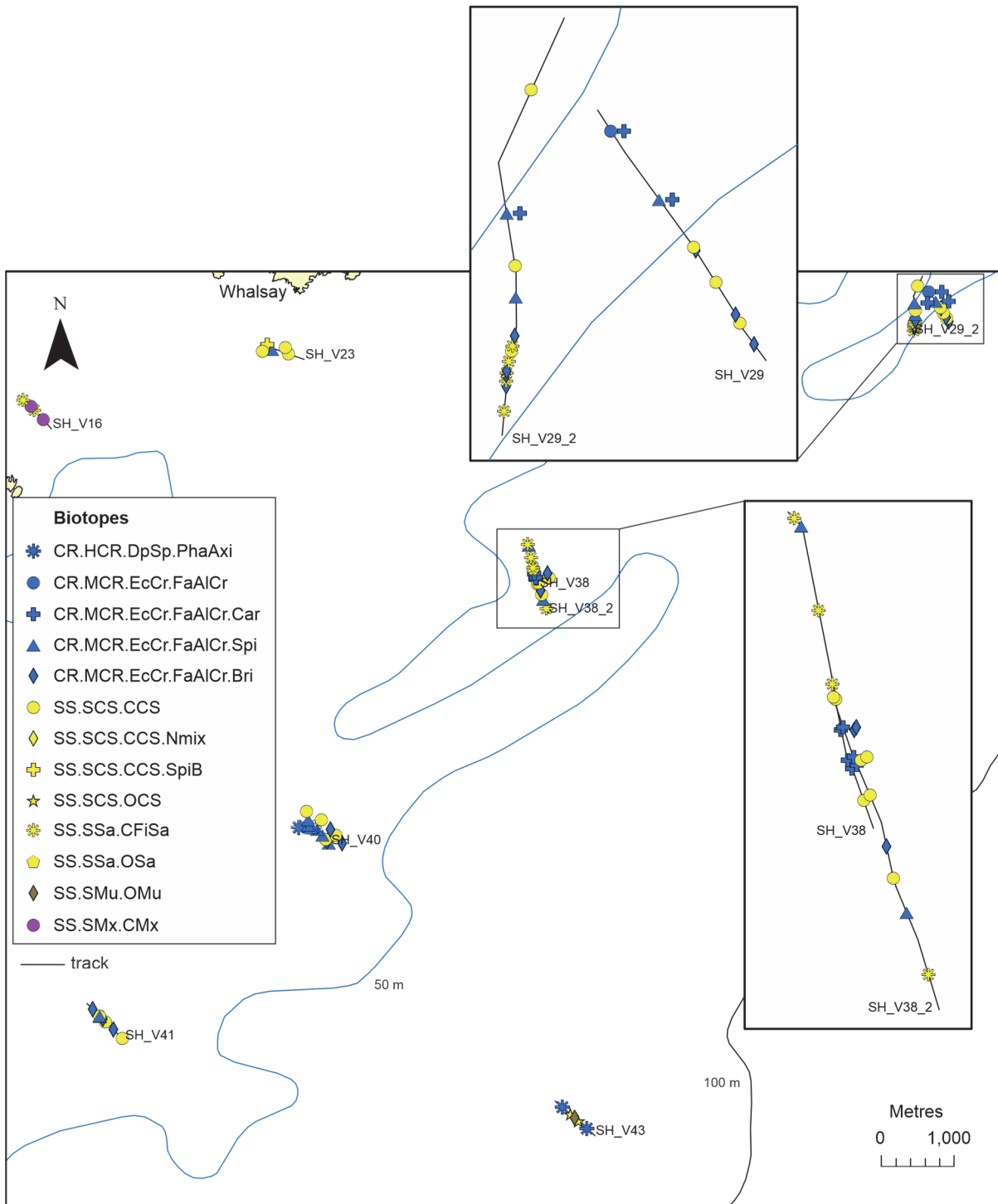
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Figure 23. Distribution of biotope records off the east coast of Shetland. Detail in insets shown in Figures 24 – 26.



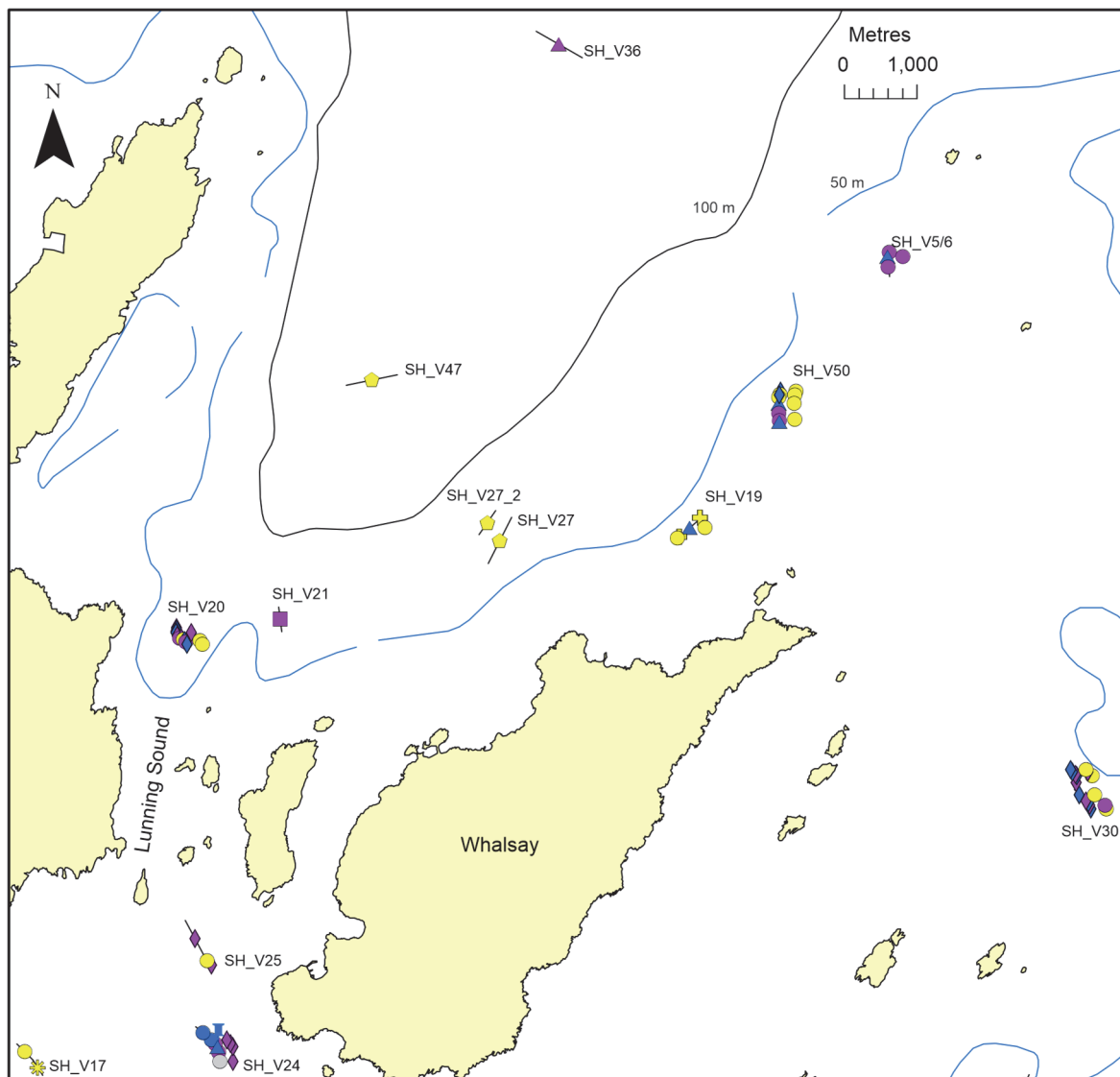
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Figure 24. Distribution of biotope records off the east coast of Shetland (inset A in Figure 23).



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Figure 25. Distribution of biotope records off the east coast of Shetland (inset B in Figure 23).



Biotopes			
✱ CR.HCR.DpSp.PhaAxi	◆ CR.MCR.EcCr.FaAlCr.Bri	✱ SS.SSa.CFiSa	◆ SS.SMx.CMx.OphMx
● CR.MCR.EcCr.FaAlCr	● SS.SCS.CCS	◆ SS.SSa.OSa	▲ SS.SMx.OMx
⊕ CR.MCR.EcCr.FaAlCr.Car	◆ SS.SCS.CCS.Nmix	◆ SS.SMu.OMu	○ SS.SBR.SMus.ModT
▲ CR.MCR.EcCr.FaAlCr.Spi	⊕ SS.SCS.CCS.SpiB	● SS.SMx.CMx	— track
⊕ CR.MCR.EcCr.FaAlCr.Adig	★ SS.SCS.OCS	■ SS.SMx.CMx.FluHyd	

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Figure 26. Distribution of biotope records off the east coast of Shetland (inset C in Figure 23).

4. DISCUSSION

This section considers the conservation importance of the species and habitats encountered during the surveys, while also providing a summary appraisal of the distribution of PMFs and, where relevant, MPA protected features and SAC Annex I habitats. The conservation importance of species and habitats and their occurrence in each of the survey locations is summarised in Table 2, with the occurrence of Annex I habitats given in Table 3. Half the biotopes in Table 2 fall within broad habitat types included in the Scottish Biodiversity List (Scottish Government, 2013) but are not recognised by other indicators of conservation importance. They are generally of wide occurrence.

Table 2. Species and biotopes recorded during the surveys of recognised conservation importance and their frequency of occurrence in video samples in each survey location. Importance indicators are SBL = Scottish Biodiversity List of Habitats and Species, Osp = OSPAR List of Threatened and/or Declining Species and Habitats, PMF = Priority Marine Feature, PF = Protected Feature. Frequencies in red indicate PF survey locations. See Table 1 for survey location codes. Abbreviations used in the tables of this report for PMFs and PFs are provided in Annex 6.

Biotope/species	Importance indicators				Survey area codes							
	SBL	Osp	PMF	PF	SOB	SOM	LS	SI	LA	LC	IS	SH
IR.MIR.KT.XKTX	•		•							2		
CR.HCR.DpSp.PhaAxi	•		•	•				2			37	4
CR.HCR.XFa.SwiLgAs	•		•	•	3	5		16				
CR.MCR.EcCr.CarSwi.LgAs	•		•	•			8	21				
SS.SCS.ICS	•				77							
SS.SCS.CCS	•				112							52
SS.SCS.CCS.Nmix	•		•		1							1
SS.SCS.CCS.SpiB	•											3
SS.SCS.OCS	•											2
SS.SSa.IMuSa	•				6							
SS.SSa.CFiSa	•											18
SS.SSa.CMuSa	•					2	1	5				
SS.SSa.OSa	•			•	43							3
SS.SMu.CSaMu	•						21	5			7	
SS.SMu.CFiMu	•										12	
SS.SMu.CFiMu.SpnMeg	•	•	•	•			10	61			19	
SS.SMu.CFiMu.SpnMeg.Fun	•	•	•	•		3	3	12			17	
SS.SMu.OMu	•							39				1
SS.SMx.IMx.Lim	•		•	•			1		3	22		
SS.SMx.CMx	•				1	16	10		6	2	6	15
SS.SMx.CMx.CiloMx	•						14					
SS.SMx.CMx.FluHyd	•											1
SS.SMx.CMx.OphMx	•						6			16		16
SS.SMp.Mrl.Pcal.Nmix	•	•	•		121							
SS.SMp.KSwSS.Slat.R			•							1		
SS.SBR.SMus.ModT	•	•	•						1			1
SS.SBR.SMus.ModHAs	•	•	•			1						

Table 2 continued.

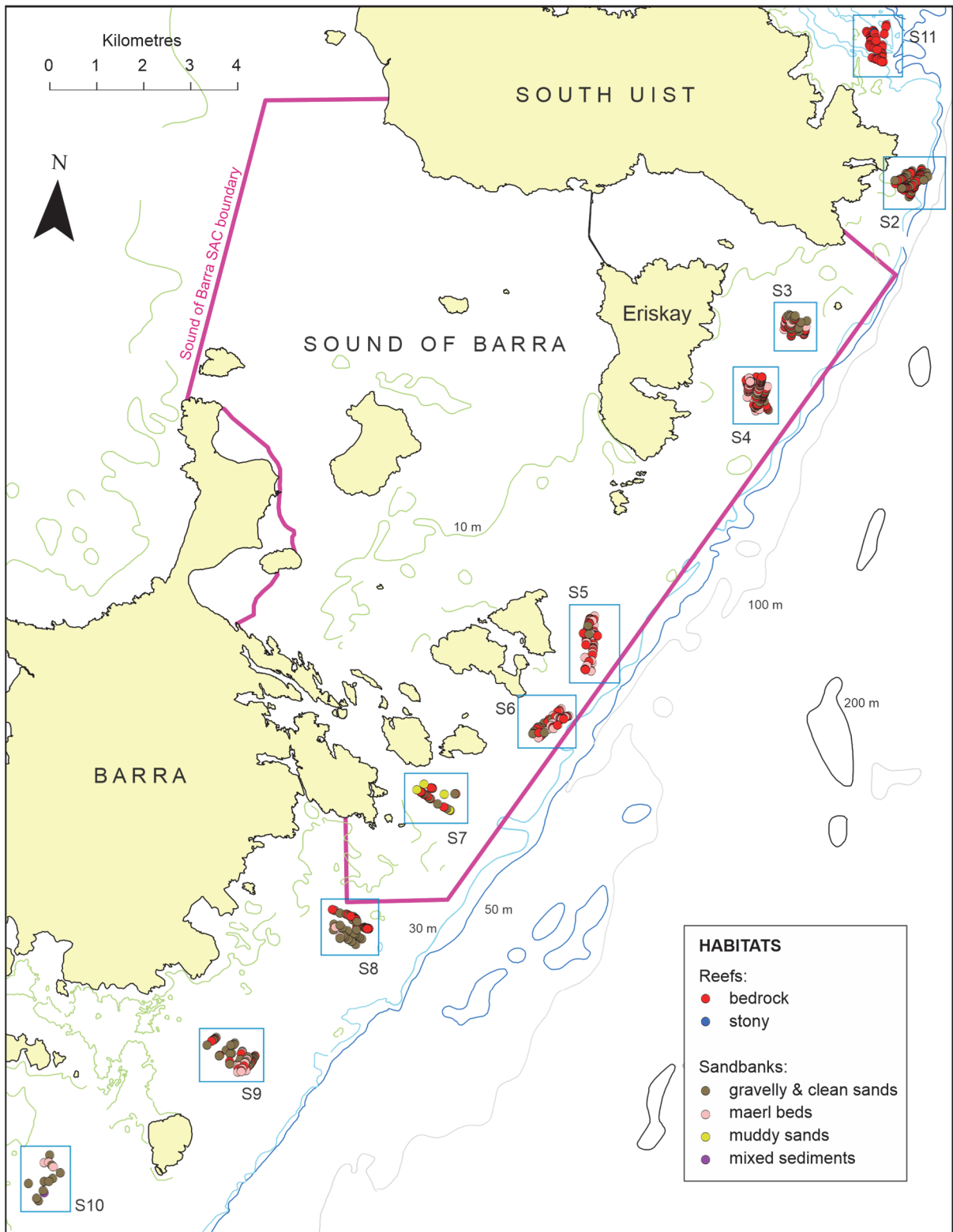
Biotope/species	Importance indicators				Survey area codes							
	SBL	Osp	PMF	PF	SOB	SOM	LS	SI	LA	LC	IS	SH
<i>Arctica islandica</i>			•				2					
<i>Arctica islandica?</i>			•				6	1			1	1
<i>Funiculina quadrangularis</i>			•	•		4	3	12			17	
<i>Funiculina quadrangularis?</i>			•	•				1				
<i>Pachycerianthus multiplicatus</i>			•	•			3	12			11	
<i>Parazoanthus anguicomus</i>			•					2				
<i>Leptometra celtica</i>			•			8	30	32			16	
<i>Leptometra celtica</i> agg.			•	•		2	22	17			8	
<i>Swiftia pallida</i>			•		7	6	15	55				
<i>Dipturus batis</i>			•									1
<i>Gadus morhua</i>			•							1		1
<i>Molva molva</i>			•									5
<i>Ammodytes</i> spp.?			•		5							

Table 3. Frequency of occurrence of Annex 1 habitats recorded in the SACs surveyed. Abbreviations used in the tables of this report for habitats are provided in Annex 6.

Habitat	Sub-type/feature	Survey area codes					
		SOB	SOM	LS	SI	LA	IS
Reefs	Bedrock	237	11	23	57	3	18
Reefs	Stony	1	14	29	60	3	19
Reefs	Biogenic (Horse mussel beds)					1	
Subtidal sandbanks	Gravelly & clean sands	190					
Subtidal sandbanks	Maerl beds	121					
Subtidal sandbanks	Muddy sands	6					
Subtidal sandbanks	Mixed sediments	1					

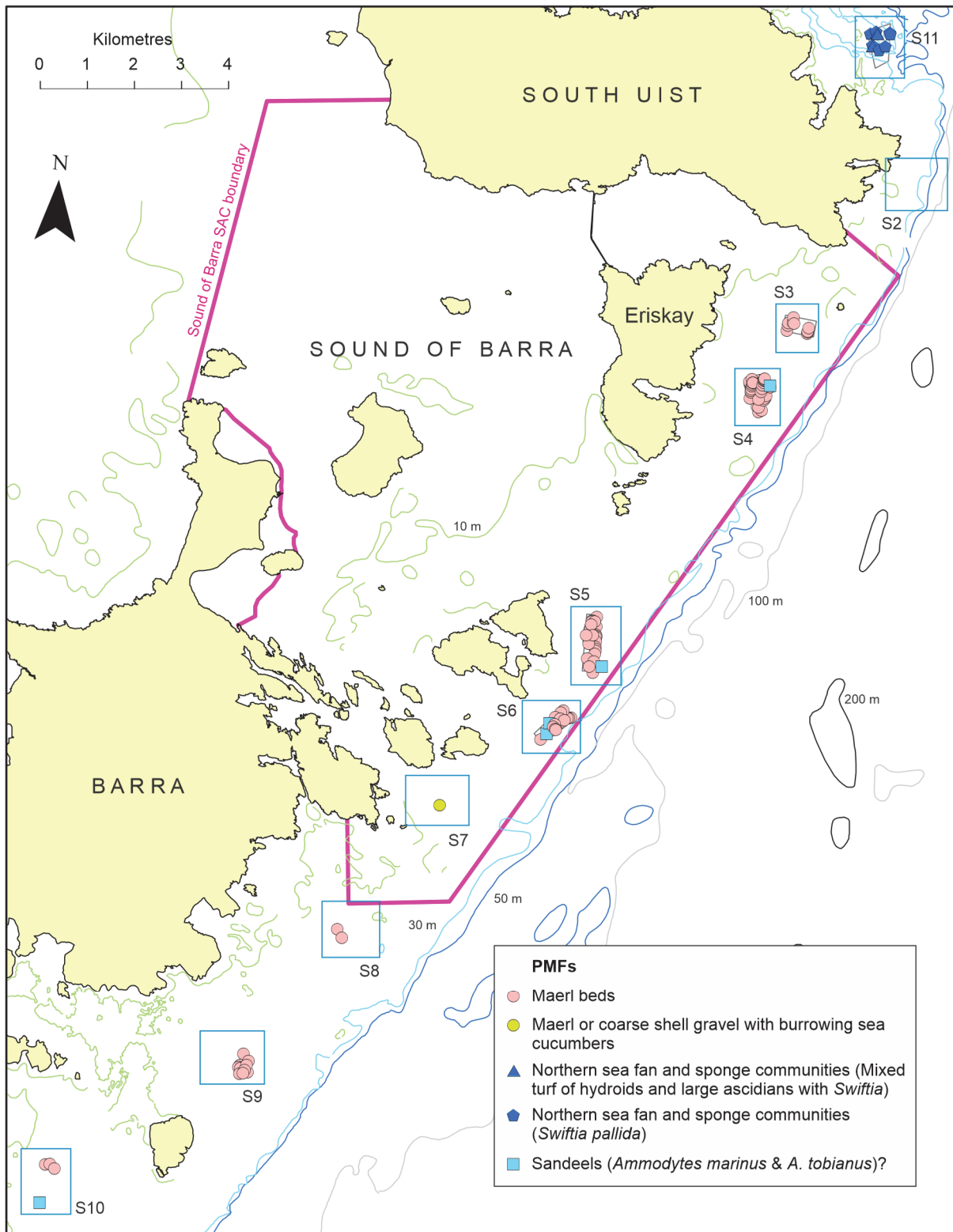
4.1 Sound of Barra boxes 2017 and 2018 (Figures 27 - 28)

A high proportion of the video runs passed through qualifying Annex 1 features with widespread distribution of bedrock reef and subtidal sandbank habitats (Figure 27, Table 3). The *Swiftia pallida* biotope **CR.HCR.XFa.SwiLgAs** represents the only reef PMF recorded, being observed along two video runs (three video samples) north of the SAC in box S11 (Figure 13), including a rich example of the habitat at one site. Four subtidal sandbank sub-types were recorded, strongly dominated by gravelly and clean sands and maerl beds (Figure 27). Both these habitats mostly took the form of megarippled gravels and coarse sands, often supporting live maerl in the troughs, representing the maerl bed PMF **SS.SMp.Mrl.Pcal.Nmix**. At such sites live maerl cover was generally low (around 10%) but better developed beds were recorded along several runs in boxes S4 and S9, where coverage reached 20 – 35%. *Neopentdactyla mixta* was observed at one megarippled coarse sand site indicating the presence of the PMF biotope **SS.SCS.CCS.Nmix**. Small numbers of possibly sandeels (a PMF) were observed at four sites over a wide area, with a shoal recorded at a fifth site.



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Figure 27. Distribution of records of Annex 1 habitats in the vicinity of the Sound of Barra.

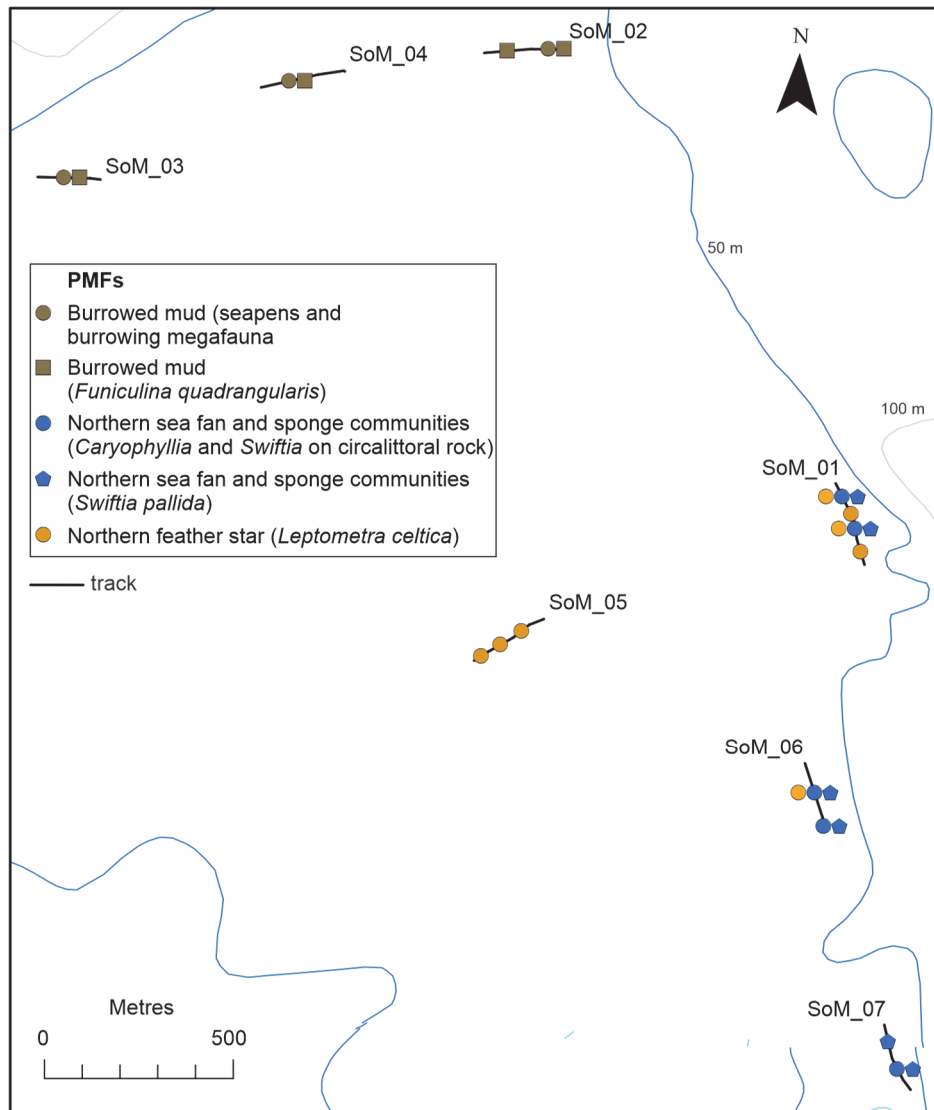


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Figure 28. Distribution of PMF records in the vicinity of the Sound of Barra.

4.2 Sound of Mull (Figure 29)

The features of principal conservation interest were recorded at the north-western end of the Sound where reefs supported high densities of *Swiftia pallida* (the PMF habitat **CR.HCR.XFa.SwiLgAs**), and burrowed mud high densities of *Funiculina quadrangularis* (the PMF **SS.SMu.CFiMu.Spnmeg.Fun**) (Figure 29). The PMF species *Leptometra celtica* was present at three sites and formed aggregations on mixed substrates at least at two of them. Around 15 km farther south in the central region of the Sound of Mull a low density *Modiolus* bed was recorded, tentatively ascribed to the PMF biotope **SS.SBR.SMus.ModHAs** (Figure 14).



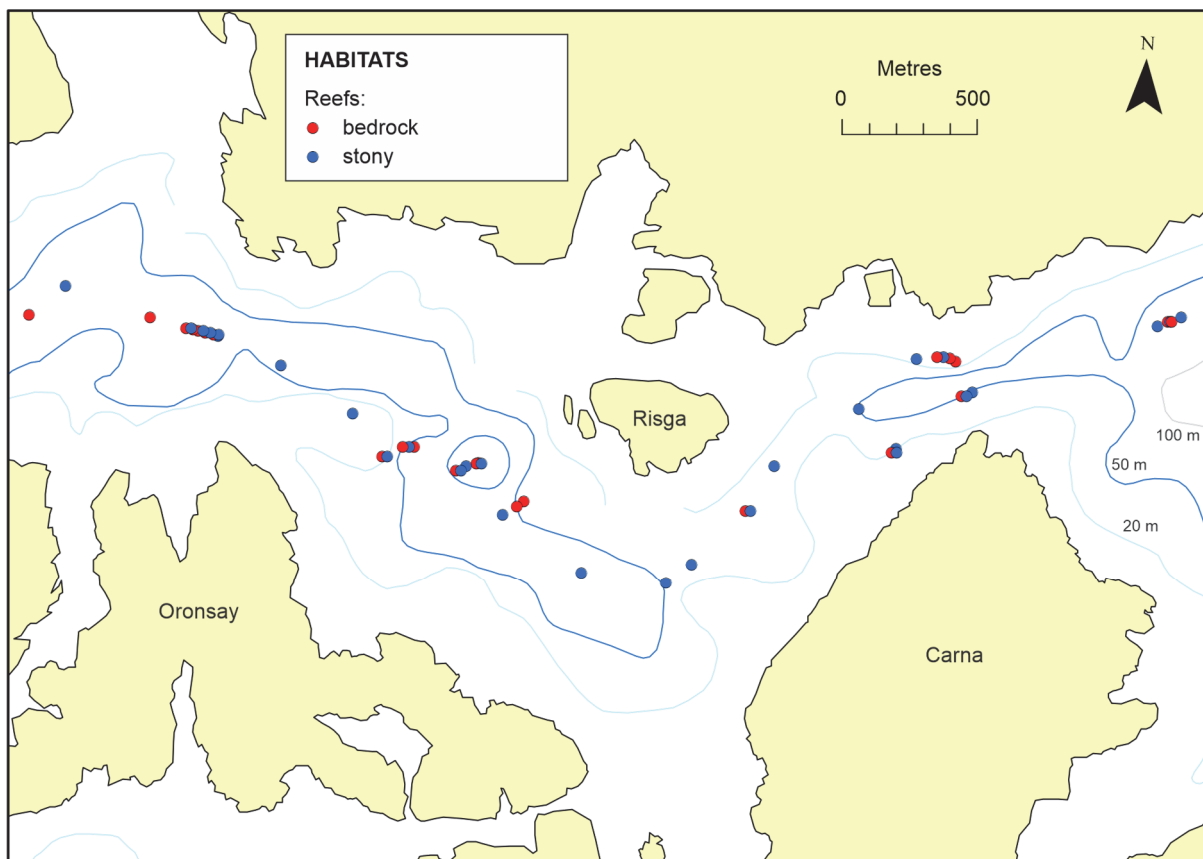
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Figure 29. Distribution of PMF records in the Sound of Mull (see inset A in Figure 14 for location).

4.3 Loch Sunart (Figures 30 - 31)

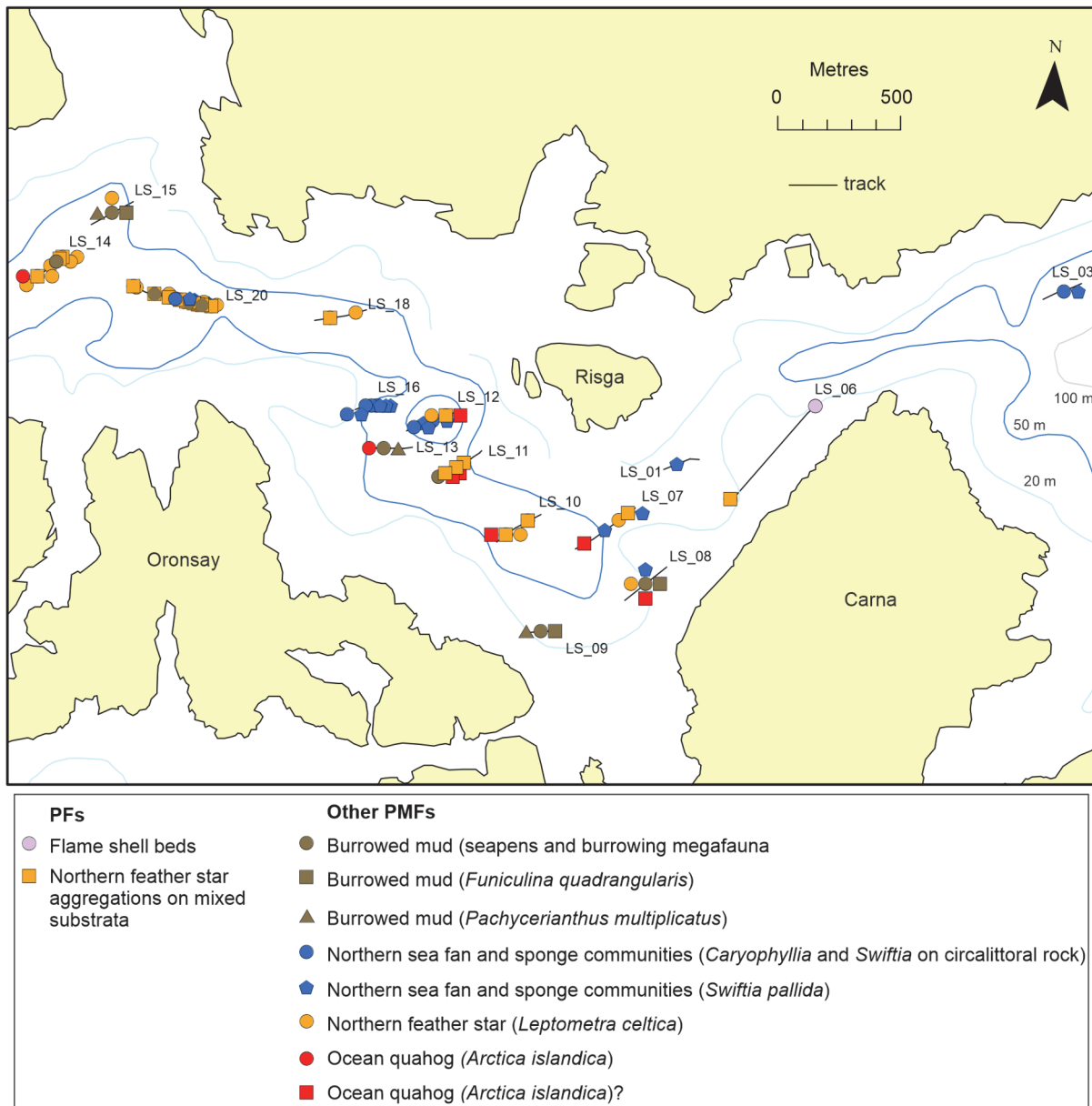
The Annex 1 habitat ‘reefs’ has been selected as a qualifying feature for the Sunart SAC and was found to be widely distributed within the surveyed area, chiefly in the form of boulders and cobbles (Figure 30). The PMF species *Swiftia pallida* was widely recorded on reef habitats in the area and as a component of the PMF biotope **CR.MCR.EcCr.CarSwi.LgAs** along four of the video runs (Figure 31). The PMF *Leptometra celtica* was extensively distributed in the

region, with dense aggregations widely recorded on mixed substrates (a designated PF). There was a single record of another PF (flame shell bed) off the northern tip of Carna, with the flame shell turf apparently covering around 40% of the seabed. However, this only extended for a distance of around 7 m along the run. This bed was close to historical observations of flame shell beds in the area (Mercer *et al.*, 2007), although several of these are based on records of occasional flame shell nests (Mercer *et al.*, 2007) and so no temporal change should be inferred from the recorded absence of the habitat from other video runs passing close to previous historical records (e.g. LS02, LS04, LS05). Other PMFs recorded in the area included burrowed muds (**SS.SMu.CFiMu.SpMieg, SS.SMu.CFiMu.SpMieg.Fun**), with the component species *Funiculina quadrangularis* and *Pachycerianthus multiplicatus*, and observations of *Arctica islandica* along seven of the video runs.



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Figure 30. Distribution of records of Annex 1 habitats in Loch Sunart.

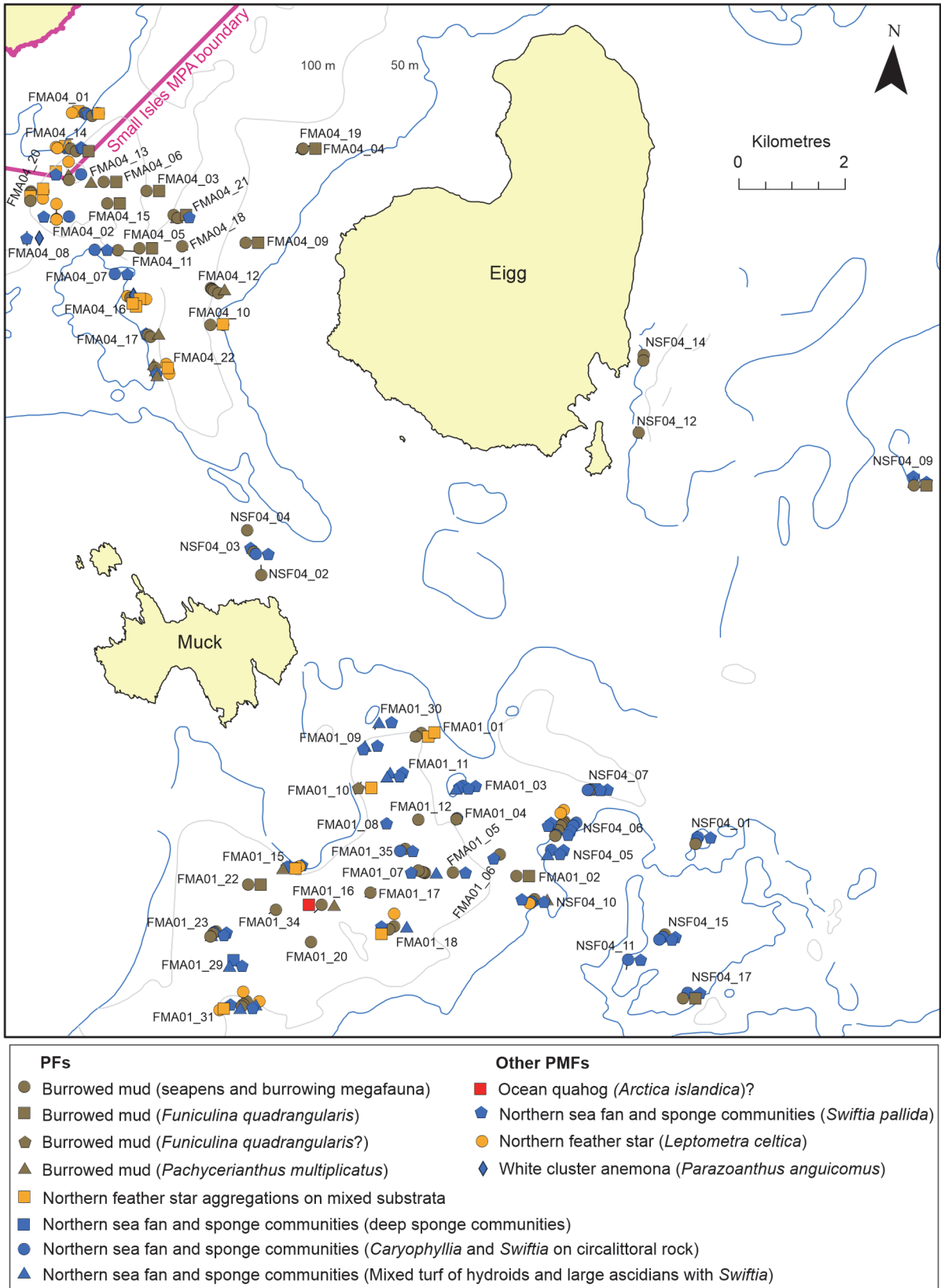


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Figure 31. Distribution of PF and PMF records in Loch Sunart.

4.4 Small Isles (Figure 32)

Most of the video runs at this location passed through protected features of the adjacent Small Isles MPA with widespread distribution of burrowed muds, northern sea fan and sponge communities and northern feather star aggregations on mixed substrata. The burrowed mud habitat was particularly well-developed in the Sound of Rùm and at a few sites southeast of Muck, where it supported high densities of *Funiculina quadrangularis* (**SS.SMu.CFiMu.SpMg.Fun**) and low densities of *Pachycerianthus multiplicatus*, although the latter was recorded as frequent at several offshore mud and mixed sediment sites. All three northern seafan and sponge community biotopes (**CR.HCR.DpSp.PhaAxi**, **CR.HCR.XFa.SwiLgAs** and **CR.MCR.EcCr.CarSwi.LgAs**) were represented, the latter two widely, although they appeared to be low diversity examples of the protected feature. Other PMFs observed included two records of *Parazoanthus anguicomus*, 16 records of *Swiftia pallida* associated with non-northern sea fan and sponge communities, and a single record of possibly dense *Arctica islandica*.

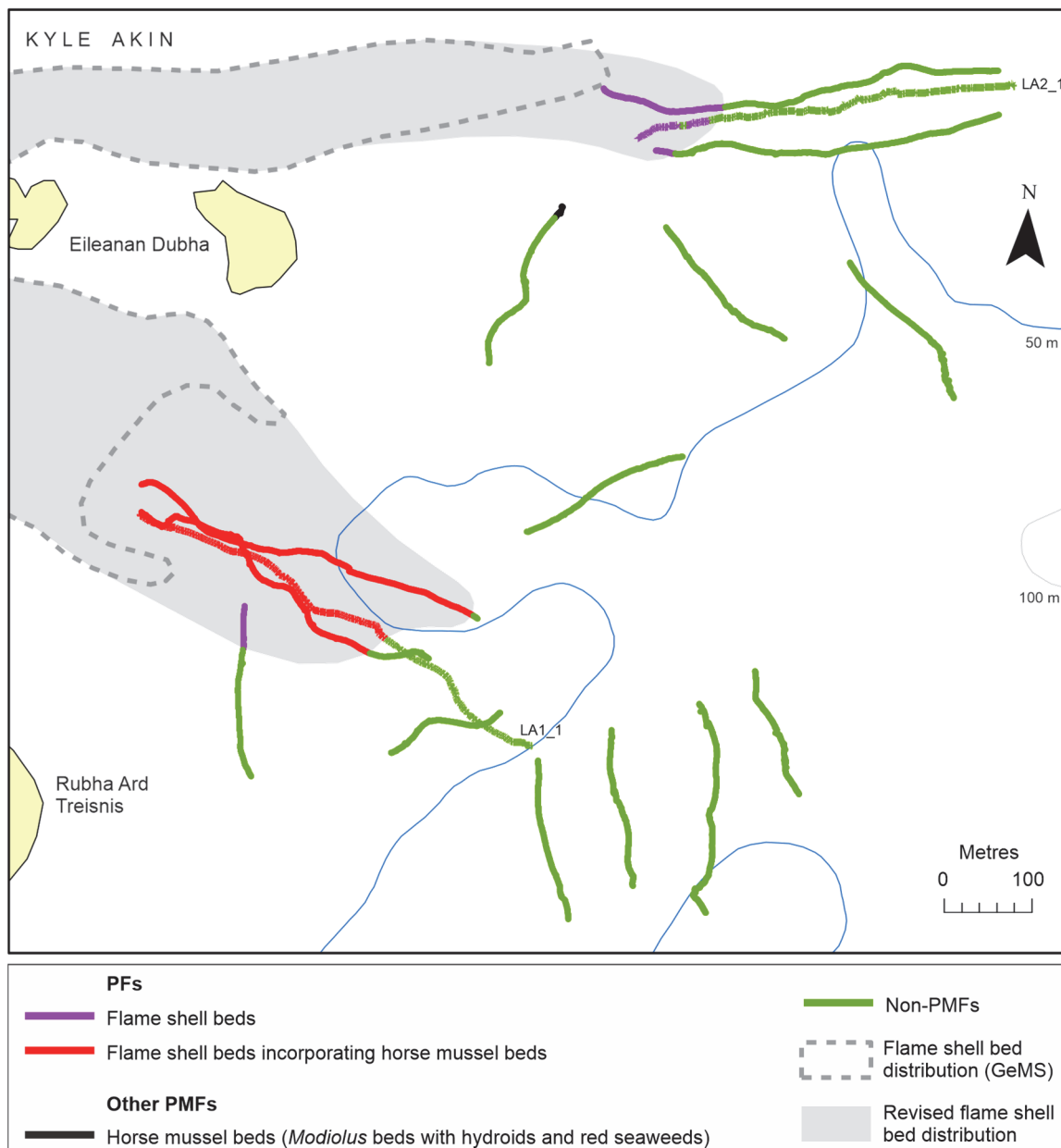


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Figure 32. Distribution of PF and PMF records off the Small Isles.

4.5 Loch Alsh (Figure 33)

The PF flame shell bed (**SS.SMx.IMx.Lim**) was present along the western sectors of both video runs and incorporated *Modiolus modiolus* attaining densities of at least common along run LA1_1 (the PMF biotope **SS.SBR.SMus.ModT**). The flame shell records significantly extend the eastern limits of the Kyle Akin flame shell according to the GeMS database (v8, i24; SNH, 2020) (see Figure 33), although they are in close agreement with the findings of a 2015-16 SNH survey in the area (Moore, 2017). Figure 33 shows the close match between the surveys and illustrates a revised interpretation of the eastern bed margin. The extent and diversity of reef habitats was a primary reason for the selection of the Lochs Duich, Long and Alsh SAC. Both video runs traversed areas of bedrock and scattered boulders and cobbles supporting typical sheltered sea loch communities.

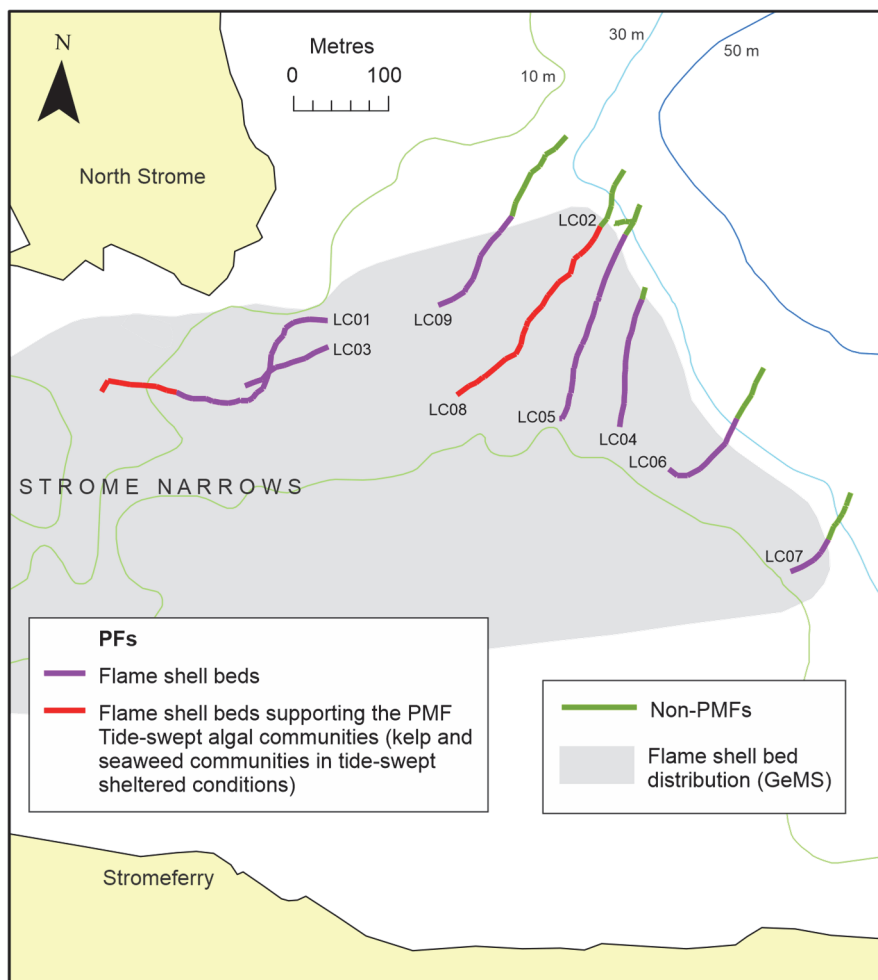


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Figure 33. Distribution of PF and PMF records in Loch Alsh from the current survey (labelled video runs) and a 2015-16 survey (Moore, 2017). Also shown is the mapped flame shell bed according to the GeMS database (SNH, 2020) and a revision of the eastern boundary.

4.6 Loch Carron (Figures 34 - 35)

Most of the video runs passed over the principal protected feature of the Loch Carron MPA, flame shell beds. The habitat was recorded on all four known beds in the loch, with excellent examples observed in Strome Narrows and around Sgeir Bhuidhe in the outer loch. However, following the 2017 scallop dredging activity that was the driver for the establishment of the MPA (Moore *et al.*, 2018), evidence of dredging was still visible two years later at two sites on the north Sgeir Bhuidhe bed, at one of them in the form of distinct parallel dredge tracks (Figure 21). The area involved was close to the bed boundary, where the flame shell habitat was relatively poorly developed. The physical habitat has been drastically modified here, although some recolonization of the parallel lines of pebbles and cobbles by *Limaria hians* may have taken place over the last two years.

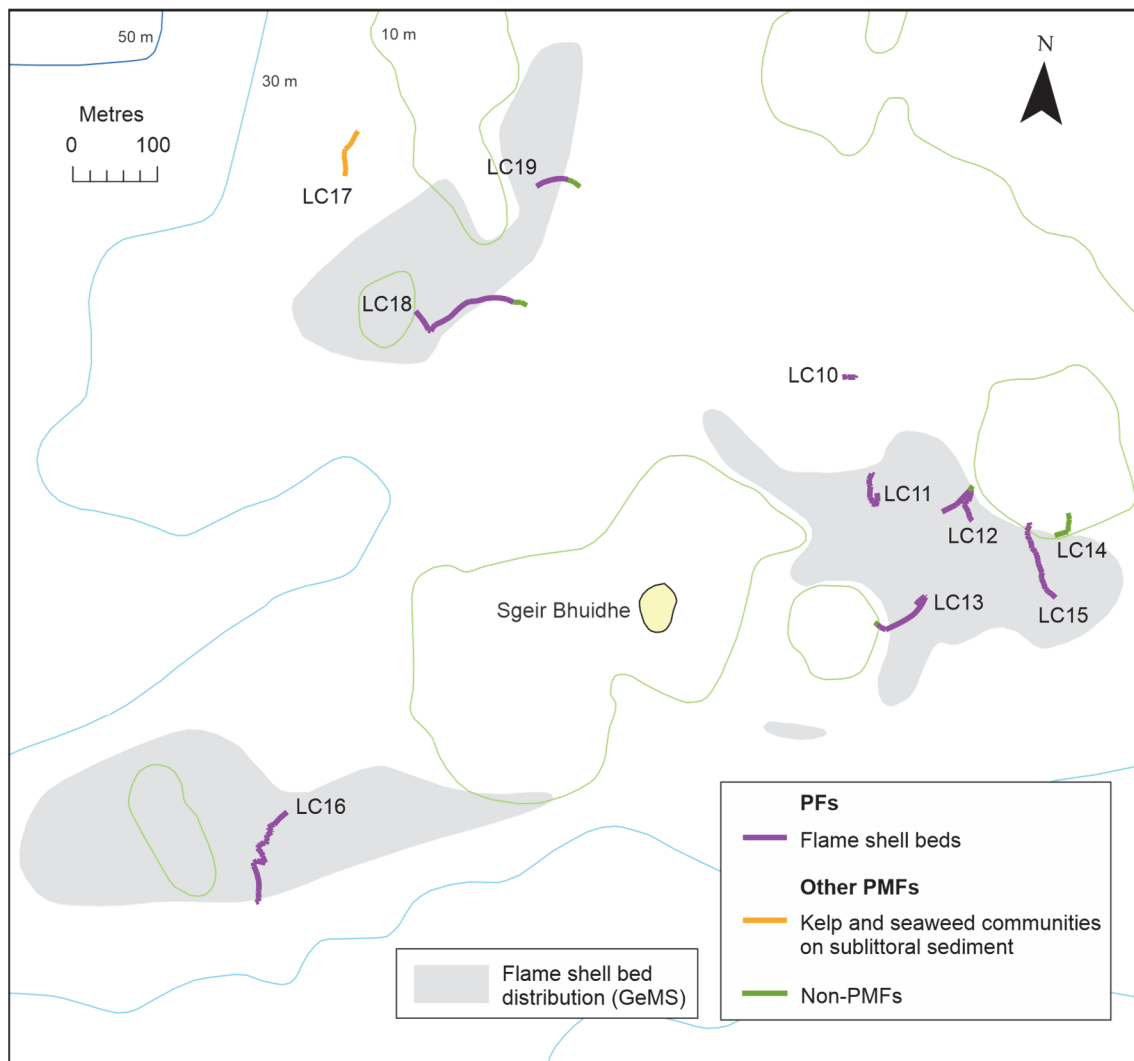


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Figure 34. Distribution of PF and PMF records in Strome Narrows, Loch Carron. Flame shell bed shown according to the GeMS database (SNH, 2020).

In Strome Narrows the survey provides support for the previous interpretation of the eastern margin of the bed according to the GeMS database (SNH, 2020) (Figure 34). The maximum discrepancy between the current and previous survey (Moore *et al.*, 2018) is around 20 m, although the degree of precision from video surveying in the area is limited by blanketing of the habitat by ophiuroids. Contemporaneous with the current video survey 24 grab samples were taken within a band straddling the eastern margin of the bed, although most failed due to the stony nature of the substrate (SNH, unpublished). The presence of two flame shells in a sample from 50 m east of the mapped bed shows that at least scattered nests are present

significantly beyond the mapped bed margin. Video tows straddling the beds around Sgeir Bhuidhe also indicated similar boundary locations to those of previous surveys (Figure 35) (Moore *et al.*, 2018), with a maximum difference of 17 m. Clumped stones indicated the presence of flame shell habitat around 90 m north of the east Sgeir Bhuidhe bed; however, pockets of the habitat were previously recorded in the same location in 2017 (Moore *et al.*, 2018).



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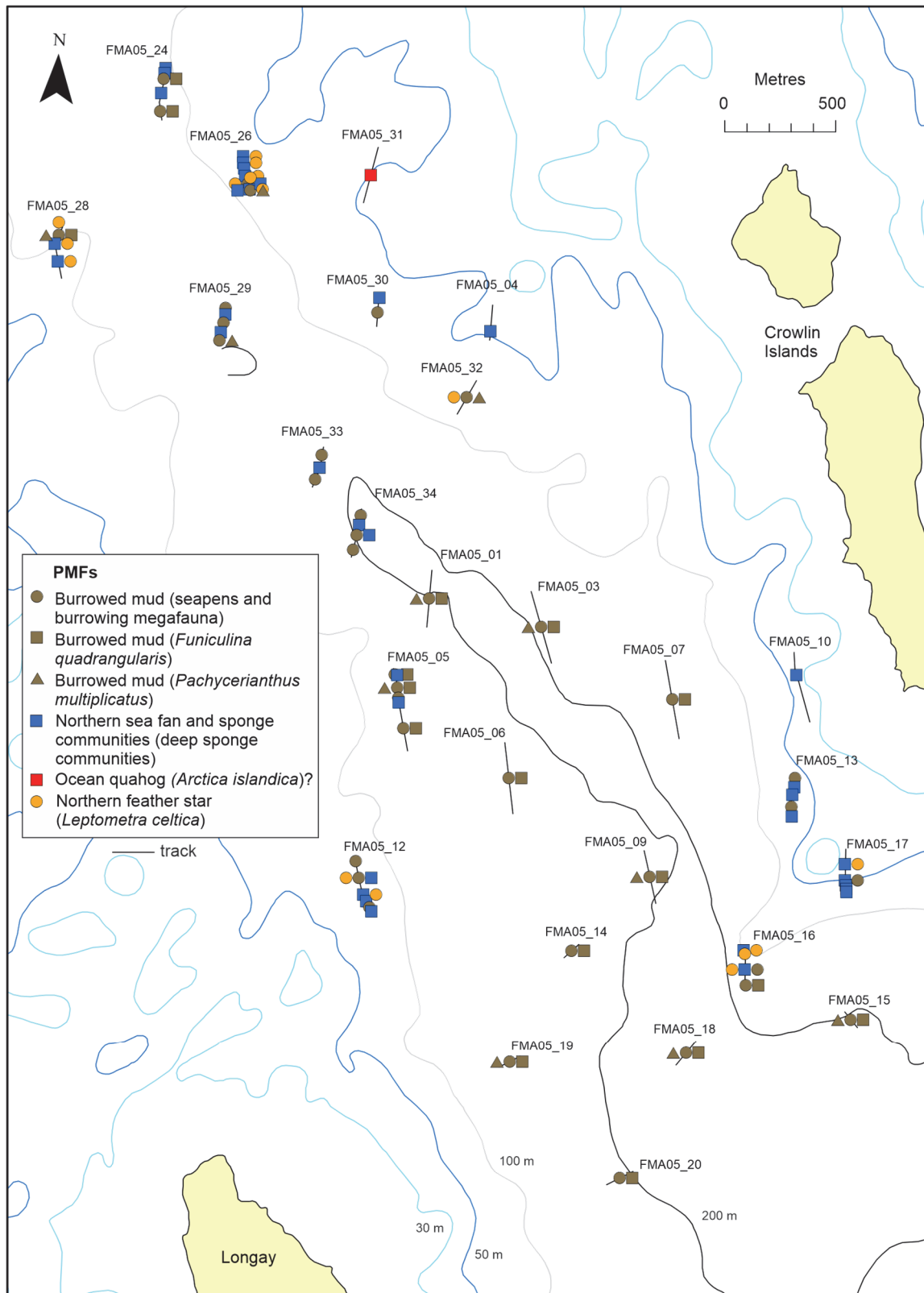
Figure 35. Distribution of PF and PMF records around Sgeir Bhuidhe, Loch Carron.

Other PMFs observed in Loch Carron included tide-swept *Laminaria hyperborea* parks and forests supported by the mixed substrate of the flame shell bed (**IR.MIR.KT.XKTX**) in Strome Narrows (Figure 34) and a mixed kelp park with dense red algal turf on stony sand (**SS.SMp.KSwSS.SlatR**) around Sgeir Bhuidhe (Figure 35).

4.7 Inner Sound (Figure 36)

This area was notable for the extensive coverage of high quality burrowed mud (the PMF **SS.SMu.CFiMu.SpnMeg.Fun**) supporting a dense megafaunal burrowing community and fairly high numbers of the PMF component species, *Funiculina quadrangularis* and *Pachycerianthus multiplicatus*. The PMF *Leptometra celtica* was also widely distributed here and formed dense aggregations on mixed substrates or muddy sediments along five video runs (eight sectors). The reef PMF biotope **CR.HCR.DpSp.PhaAxi** (Northern sea fan and

sponge communities) was extensively recorded but only as low diversity examples of the type. There was a single uncertain record of the presence of the PMF species *Arctica islandica* in muddy sand.

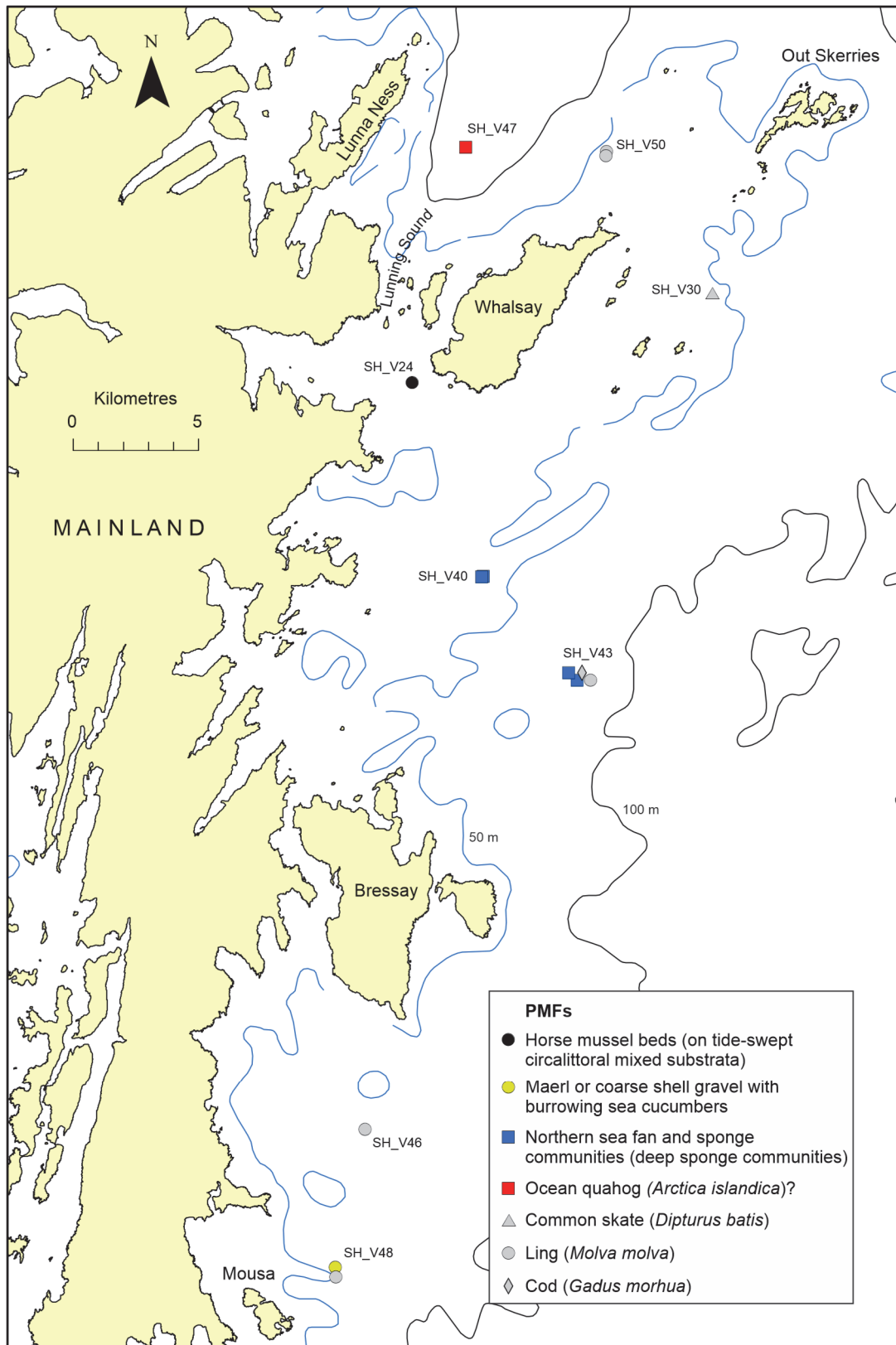


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Figure 36. Distribution of PMF records in the Inner Sound.

4.8 East of Shetland (Figure 37)

The survey revealed the presence of seven PMFs. Northern sea fan and sponge communities (deep sponge communities) (**CR.HCR.DpSp.PhaAxi**) were recorded at two silted bedrock sites. Density of the characterising sponge species *Axinella infundibuliformis* was fairly high, but species diversity of the community appeared low. One specimen of *Neopentadactyla mixta* was observed associated with megarippled coarse sand, indicative of the presence of the biotope **SS.SCS.CCS.Nmix** (maerl or coarse shell gravel with burrowing sea cucumbers). This biotope may be widespread, given the extensive distribution of megarippled coarse sediments in the area. A horse mussel bed was recorded in tide-swept waters just south of Lunning Sound (**SS.SBR.SMus.ModT**) in association with dense ophiuroids. *Modiolus modiolus* density was high, at least locally, but community diversity appeared low. A single possible specimen of *Arctica islandica* was observed at one site and there were also single records of *Dipturus batis* and *Gadus morhua*. *Molva molva* was recorded along four of the 25 video runs.



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Figure 37. Distribution of PMF records off the east coast of Shetland.

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ANNEX 1: QUALIFYING HABITATS DIRECTIVE ANNEX I HABITATS AND SUB-TYPES/FEATURES IN THE SACS SURVEYED

Corresponding biotope codes are also given for each sub-type/feature (not all component biotopes being present in any one SAC). Parts of the Inner Hebrides and the Minches SAC were also surveyed (Sound of Mull, Small Isles, Loch Alsh, Inner Sound) but there are no designated qualifying habitats for this SAC.

Qualifying Annex I habitats	Annex I sub-types/features	Biotopes	Sound of Barra SAC	Sunart SAC	Lochs Duich, Long and Alsh Reefs SAC
Reefs	Bedrock	IR, LR and CR biotopes on bedrock	•	•	•
Reefs	Stony	IR, LR and CR biotopes on <i>stable boulders and cobbles (>10% cover) elevated from seabed by at least several cm and covering area >25 m2</i>	•	•	•
Reefs	Biogenic (Horse mussel beds)	SS.SBR.SMus (SS.SBR.SMus.ModT ; SS.SBR.SMus.ModMx ; SS.SBR.SMus.ModHAs & SS.SBR.SMus.ModCvar)			•
Reefs	Biogenic (Serpulid aggregations)	SS.SBR.PoR.Ser		•	
Subtidal sandbanks	Gravelly & clean sands	SS.SCS (excluding .OCS), SS.SSa (excluding SS.SSa.IFiSa.TbAmPo , .IMuSa , .CMuSa . & .OSa)	•		
Subtidal sandbanks	Kelp & seaweed	SS.SMp.KSwSS (excluding .Tra & .FilG)	•		
Subtidal sandbanks	Maerl beds	SS.SMp.Mrl + child biotopes	•		
Subtidal sandbanks	Muddy sands	SS.SSa.IMuSa , SS.SSa.CMuSa & SS.SSa.IFiSa.TbAmPo	•		
Subtidal sandbanks	Mixed sediments	SS.SMx (excluding .SMxLS & .OMx)	•		
Subtidal sandbanks	Seagrass beds	SS.SMp.SSgr [subtidal]	•		

ANNEX 2: PROTECTED FEATURES OF THE FIVE MPAS SURVEYED

MPA codes as follows: LC (Loch Carron), LDLA (Lochs Duich, Long and Alsh), LS (Loch Sunart), LSJ (Loch Sunart to Sound of Jura), SI (Small Isles). The Sound of Mull and Loch Sunart lie within the LSJ MPA. Only biodiversity features are listed.

MPA	Protected features	Component name or descriptor	Component biotope code/ species name
LDLA, SI	Burrowed mud	Burrowing megafauna and <i>Maxmuelleria lankesteri</i> in circalittoral mud	SS.SMu.CFiMu.MegMax
		Seapens and burrowing megafauna in circalittoral fine mud	SS.SMu.CFiMu.SpnMeg
		Fireworks anemone	<i>Pachycerianthus multiplicatus</i>
		Tall seapen	<i>Funiculina quadrangularis</i>
LC, LDLA, LS	Flame shell beds	<i>Limaria hians</i> beds in tide-swept sublittoral muddy mixed sediment	SS.SMx.IMx.Lim
SI	Horse mussel beds	<i>Modiolus modiolus</i> beds with hydroids and red seaweeds on tide-swept circalittoral mixed substrata	SS.SBR.SMus.ModT
		<i>Modiolus modiolus</i> beds on open coast circalittoral mixed sediment	SS.SBR.SMus.ModMx
		<i>Modiolus modiolus</i> beds with fine hydroids and large solitary ascidians on very sheltered circalittoral mixed substrata	SS.SBR.SMus.ModHAs
		<i>Modiolus modiolus</i> beds with <i>Chlamys varia</i> , sponges, hydroids and bryozoans on slightly tide-swept very sheltered circalittoral mixed substrata	SS.SBR.SMus.ModCvar
LC	Maerl beds	Maerl beds	SS.SMp.Mrl
SI	Northern sea fan and sponge communities	<i>Caryophyllia smithii</i> , <i>Swiftia pallida</i> and large solitary ascidians on exposed or moderately exposed circalittoral rock	CR.MCR.EcCr.CarSwi
		Mixed turf of hydroids and large ascidians with <i>Swiftia pallida</i> and <i>Caryophyllia smithii</i> on weakly tide-swept circalittoral rock	CR.HCR.XFa.SwiLgAs
		Deep sponge communities	CR.HCR.DpSp, CR.HCR.DpSp.PhaAxi

ANNEX 2 continued

LS	Serpulid aggregations	<i>Serpula vermicularis</i> reefs on very sheltered circalittoral muddy sand	SS.SBR.PoR.Ser
SI	Circalittoral sand and mud communities	Offshore sand	SS.SSa.OSa
		<i>Amphiura filiformis</i> , <i>Mysella bidentata</i> and <i>Abra nitida</i> in circalittoral sandy mud	SS.SMu.CSaMu.AfilMysAnit
SI	White cluster anemones	Where present as part of the Northern sea fan and sponge communities feature	<i>Parazoanthus anguicomus</i>
SI	Fan mussel aggregations	>1 on a single video sample	<i>Atrina fragilis</i>
LS, SI	Northern feather star aggregations on mixed substrata	SACFOR abundance of >= Common	<i>Leptometra celtica</i>
LSJ	Common skate	n/a	<i>Dipturus batis</i>
SI	Black guillemot	n/a	<i>Cephus grylle</i>
SI	Shelf deeps	n/a	n/a

ANNEX 3: POSITIONAL AND TEMPORAL DETAILS OF VIDEO SEQUENCES RECORDED DURING THE SURVEYS

Where video runs at a site have been divided into segments of different habitats, the segments are coded Sample.x where x is the segment number.

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Sound of Barra 2017	S2_V1_17.01	11/05/2017	10:04:57	10:12:10	57.105583	-7.206883	57.106317	-7.206067	33.8	29.8
Sound of Barra 2017	S2_V1_17.02	11/05/2017	10:12:10	10:12:47	57.106317	-7.206067	57.106433	-7.206000	29.8	31.7
Sound of Barra 2017	S2_V1_17.03	11/05/2017	10:12:47	10:12:52	57.106433	-7.206000	57.106450	-7.205967	31.7	32.0
Sound of Barra 2017	S2_V1_17.04	11/05/2017	10:12:52	10:14:01	57.106450	-7.205967	57.106617	-7.205867	32.0	32.2
Sound of Barra 2017	S2_V1_17.05	11/05/2017	10:14:01	10:18:17	57.106617	-7.205867	57.107300	-7.205467	32.2	30.0
Sound of Barra 2017	S2_V1_17.06	11/05/2017	10:18:17	10:20:41	57.107300	-7.205467	57.107683	-7.205150	30.0	31.1
Sound of Barra 2017	S2_V1_17.07	11/05/2017	10:20:41	10:21:28	57.107683	-7.205150	57.107733	-7.204917	31.1	33.8
Sound of Barra 2017	S2_V1_17.08	11/05/2017	10:21:28	10:21:53	57.107733	-7.204917	57.107783	-7.204850	33.8	34.4
Sound of Barra 2017	S2_V1_17.09	11/05/2017	10:21:53	10:22:38	57.107783	-7.204850	57.107900	-7.204867	34.4	33.9
Sound of Barra 2017	S2_V1_17.10	11/05/2017	10:22:38	10:23:03	57.107900	-7.204867	57.108000	-7.204900	33.9	33.7
Sound of Barra 2017	S2_V1_17.11	11/05/2017	10:23:03	10:26:01	57.108000	-7.204900	57.108667	-7.204617	33.7	31.7
Sound of Barra 2017	S2_V2_17.01	11/05/2017	11:01:56	11:26:02	57.111983	-7.205583	57.108683	-7.210483	24.9	22.8
Sound of Barra 2017	S2_V2_17.02	11/05/2017	11:26:02	11:26:14	57.108683	-7.210483	57.108650	-7.210550	22.8	22.4
Sound of Barra 2017	S2_V2_17.03	11/05/2017	11:26:14	11:26:39	57.108650	-7.210550	57.108600	-7.210717	22.4	19.5
Sound of Barra 2017	S2_V2_17.04	11/05/2017	11:26:39	11:28:44	57.108600	-7.210717	57.108383	-7.211383	19.5	23.7
Sound of Barra 2017	S2_V2_17.05	11/05/2017	11:28:44	11:28:52	57.108383	-7.211383	57.108367	-7.211417	23.7	23.7
Sound of Barra 2017	S2_V2_17.06	11/05/2017	11:28:52	11:29:39	57.108367	-7.211417	57.108233	-7.211567	23.7	22.4
Sound of Barra 2017	S2_V3_17.01	11/05/2017	11:41:59	11:46:05	57.111700	-7.202400	57.111050	-7.202800	33.9	32.4
Sound of Barra 2017	S2_V3_17.02	11/05/2017	11:46:05	11:46:14	57.111050	-7.202800	57.111033	-7.202833	32.4	32.4
Sound of Barra 2017	S2_V3_17.03	11/05/2017	11:46:14	11:57:37	57.111033	-7.202833	57.109117	-7.206183	32.4	28.2
Sound of Barra 2017	S2_V3_17.04	11/05/2017	11:57:37	11:58:06	57.109117	-7.206183	57.109000	-7.206333	28.2	28.6
Sound of Barra 2017	S2_V3_17.05	11/05/2017	11:58:06	12:02:14	57.109000	-7.206333	57.108150	-7.207717	28.6	26.7
Sound of Barra 2017	S2_V3_17.06	11/05/2017	12:02:14	12:02:42	57.108150	-7.207717	57.108050	-7.207833	26.7	27.3
Sound of Barra 2017	S2_V3_17.07	11/05/2017	12:02:42	12:03:49	57.108050	-7.207833	57.107900	-7.208250	27.3	26.2
Sound of Barra 2017	S2_V3_17.08	11/05/2017	12:03:49	12:05:09	57.107900	-7.208250	57.107733	-7.208600	26.2	22.5
Sound of Barra 2017	S2_V3_17.09	11/05/2017	12:05:09	12:06:29	57.107733	-7.208600	57.107600	-7.208967	22.5	24.0

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Sound of Barra 2017	S2_V3_17.10	11/05/2017	12:06:29	12:07:09	57.107600	-7.208967	57.107533	-7.209100	24.0	23.5
Sound of Barra 2017	S2_V3_17.11	11/05/2017	12:07:09	12:07:40	57.107533	-7.209100	57.107483	-7.209150	23.5	23.1
Sound of Barra 2017	S2_V3_17.12	11/05/2017	12:07:40	12:07:51	57.107483	-7.209150	57.107450	-7.209150	23.1	22.7
Sound of Barra 2017	S2_V3_17.13	11/05/2017	12:07:51	12:08:35	57.107450	-7.209150	57.107367	-7.209300	22.7	20.9
Sound of Barra 2017	S2_V4_17.01	11/05/2017	12:21:46	12:24:26	57.110933	-7.200383	57.110383	-7.201017	46.5	38.1
Sound of Barra 2017	S2_V4_17.02	11/05/2017	12:24:26	12:29:01	57.110383	-7.201017	57.109567	-7.202317	38.1	30.8
Sound of Barra 2017	S2_V4_17.03	11/05/2017	12:29:01	12:30:23	57.109567	-7.202317	57.109417	-7.202650	30.8	30.8
Sound of Barra 2017	S2_V4_17.04	11/05/2017	12:30:23	12:32:34	57.109417	-7.202650	57.109017	-7.203517	30.8	35.4
Sound of Barra 2017	S2_V4_17.05	11/05/2017	12:32:34	12:34:54	57.109017	-7.203517	57.108667	-7.204450	35.4	32.4
Sound of Barra 2017	S2_V4_17.06	11/05/2017	12:34:54	12:35:29	57.108667	-7.204450	57.108583	-7.204683	32.4	32.6
Sound of Barra 2017	S2_V4_17.07	11/05/2017	12:35:29	12:44:11	57.108583	-7.204683	57.107667	-7.207217	32.6	26.4
Sound of Barra 2017	S2_V4_17.08	11/05/2017	12:44:11	12:44:15	57.107667	-7.207217	57.107667	-7.207200	26.4	26.3
Sound of Barra 2017	S2_V4_17.09	11/05/2017	12:44:15	12:44:26	57.107667	-7.207200	57.107650	-7.207267	26.3	25.9
Sound of Barra 2017	S2_V4_17.10	11/05/2017	12:44:26	12:46:53	57.107650	-7.207267	57.107417	-7.207683	25.9	26.5
Sound of Barra 2017	S2_V4_17.11	11/05/2017	12:46:53	12:47:25	57.107417	-7.207683	57.107367	-7.207817	26.5	25.3
Sound of Barra 2017	S2_V4_17.12	11/05/2017	12:47:25	12:48:23	57.107367	-7.207817	57.107283	-7.208100	25.3	21.3
Sound of Barra 2017	S2_V4_17.13	11/05/2017	12:48:23	12:48:34	57.107283	-7.208100	57.107267	-7.208133	21.3	21.2
Sound of Barra 2017	S2_V4_17.14	11/05/2017	12:48:34	12:50:17	57.107267	-7.208133	57.107050	-7.208600	21.2	20.1
Sound of Barra 2017	S3_V1_17.01	10/05/2017	13:49:01	13:49:26	57.078333	-7.240267	57.078417	-7.240200	25.0	24.3
Sound of Barra 2017	S3_V1_17.02	10/05/2017	13:49:26	13:50:05	57.078417	-7.240200	57.078533	-7.240150	24.3	25.2
Sound of Barra 2017	S3_V1_17.03	10/05/2017	13:50:05	13:52:11	57.078533	-7.240150	57.078967	-7.240017	25.2	23.0
Sound of Barra 2017	S3_V1_17.04	10/05/2017	13:52:11	13:52:26	57.078967	-7.240017	57.079000	-7.240000	23.0	22.5
Sound of Barra 2017	S3_V1_17.05	10/05/2017	13:52:26	13:52:31	57.079000	-7.240000	57.079017	-7.240000	22.5	22.3
Sound of Barra 2017	S3_V1_17.06	10/05/2017	13:52:31	13:53:08	57.079017	-7.240000	57.079133	-7.239950	22.3	22.2
Sound of Barra 2017	S3_V1_17.07	10/05/2017	13:53:08	13:53:30	57.079133	-7.239950	57.079183	-7.239933	22.2	22.6
Sound of Barra 2017	S3_V1_17.08	10/05/2017	13:53:30	13:54:02	57.079183	-7.239933	57.079283	-7.239900	22.6	22.9
Sound of Barra 2017	S3_V1_17.09	10/05/2017	13:54:02	14:00:12	57.079283	-7.239900	57.080433	-7.239517	22.9	24.9
Sound of Barra 2017	S3_V1_17.10	10/05/2017	14:00:12	14:05:56	57.080433	-7.239517	57.081533	-7.239317	24.9	23.6
Sound of Barra 2017	S3_V2_17.01	10/05/2017	14:15:40	14:16:53	57.078783	-7.242100	57.079050	-7.242217	27.3	27.2
Sound of Barra 2017	S3_V2_17.02	10/05/2017	14:16:53	14:32:44	57.079050	-7.242217	57.081933	-7.241483	27.2	25.9

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Sound of Barra 2017	S3_V3_17.01	10/05/2017	14:43:10	14:43:30	57.077933	-7.244650	57.078000	-7.244633	26.4	27.2
Sound of Barra 2017	S3_V3_17.02	10/05/2017	14:43:30	14:44:10	57.078000	-7.244633	57.078133	-7.244583	27.2	28.2
Sound of Barra 2017	S3_V3_17.03	10/05/2017	14:44:10	14:46:10	57.078133	-7.244583	57.078733	-7.244483	28.2	28.0
Sound of Barra 2017	S3_V3_17.04	10/05/2017	14:46:10	14:46:22	57.078733	-7.244483	57.078800	-7.244517	28.0	28.0
Sound of Barra 2017	S3_V3_17.05	10/05/2017	14:46:22	14:50:31	57.078800	-7.244517	57.079667	-7.244900	28.0	27.2
Sound of Barra 2017	S3_V3_17.06	10/05/2017	14:50:31	14:50:43	57.079667	-7.244900	57.079700	-7.244917	27.2	27.2
Sound of Barra 2017	S3_V3_17.07	10/05/2017	14:50:43	14:51:12	57.079700	-7.244917	57.079800	-7.244883	27.2	25.8
Sound of Barra 2017	S3_V3_17.08	10/05/2017	14:51:12	14:51:47	57.079800	-7.244883	57.079933	-7.244817	25.8	27.3
Sound of Barra 2017	S3_V3_17.09	10/05/2017	14:51:47	14:59:32	57.079933	-7.244817	57.081400	-7.244000	27.3	26.2
Sound of Barra 2017	S3_V4_17.01	10/05/2017	15:08:28	15:09:43	57.078917	-7.247233	57.079267	-7.247083	26.7	25.5
Sound of Barra 2017	S3_V4_17.02	10/05/2017	15:09:43	15:12:16	57.079267	-7.247083	57.079917	-7.246967	25.5	25.7
Sound of Barra 2017	S3_V4_17.03	10/05/2017	15:12:16	15:14:10	57.079917	-7.246967	57.080233	-7.247033	25.7	24.5
Sound of Barra 2017	S3_V4_17.04	10/05/2017	15:14:10	15:14:24	57.080233	-7.247033	57.080267	-7.247017	24.5	24.2
Sound of Barra 2017	S3_V4_17.05	10/05/2017	15:14:24	15:18:35	57.080267	-7.247017	57.080917	-7.246833	24.2	25.5
Sound of Barra 2017	S3_V4_17.06	10/05/2017	15:18:35	15:19:29	57.080917	-7.246833	57.081133	-7.246750	25.5	26.3
Sound of Barra 2017	S3_V4_17.07	10/05/2017	15:19:29	15:19:37	57.081133	-7.246750	57.081167	-7.246733	26.3	26.8
Sound of Barra 2017	S3_V4_17.08	10/05/2017	15:19:37	15:20:43	57.081167	-7.246733	57.081350	-7.246683	26.8	26.6
Sound of Barra 2017	S3_V4_17.09	10/05/2017	15:20:43	15:24:57	57.081350	-7.246683	57.082050	-7.246417	26.6	25.8
Sound of Barra 2017	S4_V1_17.01	10/05/2017	16:08:58	16:13:42	57.062667	-7.255283	57.063817	-7.255567	25.6	25.2
Sound of Barra 2017	S4_V1_17.02	10/05/2017	16:13:42	16:13:51	57.063817	-7.255567	57.063850	-7.255583	25.2	25.2
Sound of Barra 2017	S4_V1_17.03	10/05/2017	16:13:51	16:13:55	57.063850	-7.255583	57.063867	-7.255600	25.2	25.1
Sound of Barra 2017	S4_V1_17.04	10/05/2017	16:13:55	16:13:58	57.063867	-7.255600	57.063867	-7.255600	25.1	25.0
Sound of Barra 2017	S4_V1_17.05	10/05/2017	16:13:58	16:14:12	57.063867	-7.255600	57.063917	-7.255650	25.0	24.6
Sound of Barra 2017	S4_V1_17.06	10/05/2017	16:14:12	16:14:33	57.063917	-7.255650	57.063983	-7.255717	24.6	22.7
Sound of Barra 2017	S4_V1_17.07	10/05/2017	16:14:33	16:15:17	57.063983	-7.255717	57.064117	-7.255850	22.7	24.3
Sound of Barra 2017	S4_V1_17.08	10/05/2017	16:15:17	16:15:40	57.064117	-7.255850	57.064200	-7.255950	24.3	25.7
Sound of Barra 2017	S4_V1_17.09	10/05/2017	16:15:40	16:16:28	57.064200	-7.255950	57.064367	-7.256117	25.7	26.1
Sound of Barra 2017	S4_V1_17.10	10/05/2017	16:16:28	16:16:35	57.064367	-7.256117	57.064400	-7.256133	26.1	26.1
Sound of Barra 2017	S4_V1_17.11	10/05/2017	16:16:35	16:28:00	57.064400	-7.256133	57.067117	-7.258067	25.9	24.6
Sound of Barra 2017	S4_V1_17.12	10/05/2017	16:28:00	16:28:14	57.067117	-7.258067	57.067167	-7.258117	24.6	24.4

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Sound of Barra 2017	S4_V1_17.13	10/05/2017	16:28:14	16:28:37	57.067167	-7.258117	57.067250	-7.258200	24.4	24.2
Sound of Barra 2017	S4_V1_17.14	10/05/2017	16:28:37	16:28:44	57.067250	-7.258200	57.067283	-7.258233	24.2	24.3
Sound of Barra 2017	S4_V1_17.15	10/05/2017	16:28:44	16:33:14	57.067283	-7.258233	57.068283	-7.258933	24.3	23.7
Sound of Barra 2017	S4_V1_17.16	10/05/2017	16:33:14	16:33:25	57.068283	-7.258933	57.068317	-7.258950	23.7	23.6
Sound of Barra 2017	S4_V1_17.17	10/05/2017	16:33:25	16:33:36	57.068317	-7.258950	57.068367	-7.258950	23.6	23.7
Sound of Barra 2017	S4_V1_17.18	10/05/2017	16:33:36	16:34:01	57.068367	-7.258950	57.068467	-7.258983	23.7	23.6
Sound of Barra 2017	S4_V1_17.19	10/05/2017	16:34:01	16:34:12	57.068467	-7.258983	57.068500	-7.259000	23.6	23.7
Sound of Barra 2017	S4_V1_17.20	10/05/2017	16:34:12	16:35:42	57.068500	-7.259000	57.068733	-7.259083	23.7	23.5
Sound of Barra 2017	S4_V1_17.21	10/05/2017	16:35:42	16:37:04	57.068733	-7.259083	57.068933	-7.259233	23.5	23.2
Sound of Barra 2017	S4_V1_17.22	10/05/2017	16:37:04	16:37:17	57.068933	-7.259233	57.068950	-7.259250	23.2	23.3
Sound of Barra 2017	S4_V1_17.23	10/05/2017	16:37:17	16:38:33	57.068950	-7.259250	57.069133	-7.259400	23.3	22.1
Sound of Barra 2017	S4_V2_17.01	11/05/2017	07:45:22	07:48:17	57.063417	-7.250550	57.063833	-7.251350	25.9	25.9
Sound of Barra 2017	S4_V2_17.02	11/05/2017	07:48:17	07:49:18	57.063833	-7.251350	57.064000	-7.251600	25.9	26.9
Sound of Barra 2017	S4_V2_17.03	11/05/2017	07:49:18	07:50:47	57.064000	-7.251600	57.064267	-7.251883	26.9	27.4
Sound of Barra 2017	S4_V2_17.04	11/05/2017	07:50:47	07:51:37	57.064267	-7.251883	57.064400	-7.251967	27.4	27.1
Sound of Barra 2017	S4_V2_17.05	11/05/2017	07:51:37	08:01:02	57.064400	-7.251967	57.065917	-7.253317	27.1	28.2
Sound of Barra 2017	S4_V2_17.06	11/05/2017	08:01:02	08:01:42	57.065917	-7.253317	57.066017	-7.253433	28.2	27.9
Sound of Barra 2017	S4_V2_17.07	11/05/2017	08:01:42	08:02:48	57.066017	-7.253433	57.066217	-7.253633	27.9	26.3
Sound of Barra 2017	S4_V2_17.08	11/05/2017	08:02:48	08:04:26	57.066217	-7.253633	57.066500	-7.253883	26.3	26.9
Sound of Barra 2017	S4_V2_17.09	11/05/2017	08:04:26	08:04:50	57.066500	-7.253883	57.066567	-7.253950	26.9	26.1
Sound of Barra 2017	S4_V2_17.10	11/05/2017	08:04:50	08:05:12	57.066567	-7.253950	57.066633	-7.254000	26.1	25.7
Sound of Barra 2017	S4_V2_17.11	11/05/2017	08:05:12	08:07:10	57.066633	-7.254000	57.066983	-7.254267	25.7	24.8
Sound of Barra 2017	S4_V2_17.12	11/05/2017	08:07:10	08:09:04	57.066983	-7.254267	57.067283	-7.254550	24.8	27.0
Sound of Barra 2017	S4_V2_17.13	11/05/2017	08:09:04	08:09:29	57.067283	-7.254550	57.067350	-7.254600	27.0	27.1
Sound of Barra 2017	S4_V2_17.14	11/05/2017	08:09:29	08:11:38	57.067350	-7.254600	57.067750	-7.254867	27.1	27.0
Sound of Barra 2017	S4_V2_17.15	11/05/2017	08:11:38	08:12:43	57.067750	-7.254867	57.067933	-7.254950	27.0	26.8
Sound of Barra 2017	S4_V2_17.16	11/05/2017	08:12:43	08:13:30	57.067933	-7.254950	57.068050	-7.255017	26.8	26.2
Sound of Barra 2017	S4_V2_17.17	11/05/2017	08:13:30	08:14:19	57.068050	-7.255017	57.068167	-7.255083	26.2	25.6
Sound of Barra 2017	S4_V2_17.18	11/05/2017	08:14:19	08:15:47	57.068167	-7.255083	57.068417	-7.255217	25.6	25.4
Sound of Barra 2017	S4_V2_17.19	11/05/2017	08:15:47	08:16:05	57.068417	-7.255217	57.068467	-7.255233	25.4	25.4

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Sound of Barra 2017	S4_V2_17.20	11/05/2017	08:16:05	08:18:52	57.068467	-7.255233	57.068933	-7.255533	25.4	24.9
Sound of Barra 2017	S4_V2_17.21	11/05/2017	08:18:52	08:19:16	57.068933	-7.255533	57.069017	-7.255550	24.9	24.9
Sound of Barra 2017	S4_V2_17.22	11/05/2017	08:19:16	08:19:33	57.069017	-7.255550	57.069050	-7.255550	24.9	24.9
Sound of Barra 2017	S4_V2_17.23	11/05/2017	08:19:33	08:22:50	57.069050	-7.255550	57.069583	-7.255917	24.9	24.3
Sound of Barra 2017	S4_V2_17.24	11/05/2017	08:22:50	08:23:04	57.069583	-7.255917	57.069633	-7.255950	24.3	24.1
Sound of Barra 2017	S4_V2_17.25	11/05/2017	08:23:04	08:23:57	57.069633	-7.255950	57.069750	-7.256033	24.1	23.9
Sound of Barra 2017	S4_V3_17.01	11/05/2017	08:34:30	08:45:45	57.062883	-7.253833	57.064283	-7.254650	25.8	26.1
Sound of Barra 2017	S4_V3_17.02	11/05/2017	08:45:45	08:49:41	57.064283	-7.254650	57.064717	-7.254250	26.1	28.2
Sound of Barra 2017	S4_V3_17.03	11/05/2017	08:49:41	08:56:18	57.064717	-7.254250	57.065517	-7.254433	28.2	27.4
Sound of Barra 2017	S4_V3_17.04	11/05/2017	08:56:18	09:00:23	57.065517	-7.254433	57.065983	-7.254517	27.4	26.0
Sound of Barra 2017	S4_V3_17.05	11/05/2017	09:00:23	09:04:33	57.065983	-7.254517	57.066433	-7.254550	26.0	26.9
Sound of Barra 2017	S4_V3_17.06	11/05/2017	09:04:33	09:05:04	57.066433	-7.254550	57.066500	-7.254617	26.9	26.7
Sound of Barra 2017	S4_V3_17.07	11/05/2017	09:05:04	09:07:51	57.066500	-7.254617	57.066750	-7.255067	26.7	26.6
Sound of Barra 2017	S4_V3_17.08	11/05/2017	09:07:51	09:08:40	57.066750	-7.255067	57.066783	-7.255233	26.6	26.4
Sound of Barra 2017	S4_V3_17.09	11/05/2017	09:08:40	09:14:30	57.066783	-7.255233	57.067600	-7.255567	26.4	24.2
Sound of Barra 2017	S4_V3_17.10	11/05/2017	09:14:30	09:15:28	57.067600	-7.255567	57.067733	-7.255667	24.2	22.1
Sound of Barra 2017	S4_V3_17.11	11/05/2017	09:15:28	09:17:16	57.067733	-7.255667	57.067967	-7.255917	22.1	25.2
Sound of Barra 2017	S4_V3_17.12	11/05/2017	09:17:16	09:18:14	57.067967	-7.255917	57.068100	-7.256050	25.2	24.9
Sound of Barra 2017	S4_V3_17.13	11/05/2017	09:18:14	09:20:11	57.068100	-7.256050	57.068333	-7.256383	24.9	23.7
Sound of Barra 2017	S4_V3_17.14	11/05/2017	09:20:11	09:20:48	57.068333	-7.256383	57.068400	-7.256583	23.7	24.3
Sound of Barra 2017	S4_V3_17.15	11/05/2017	09:20:48	09:21:01	57.068400	-7.256583	57.068417	-7.256650	24.3	24.5
Sound of Barra 2017	S4_V3_17.16	11/05/2017	09:21:01	09:21:10	57.068417	-7.256650	57.068417	-7.256700	24.5	24.1
Sound of Barra 2017	S4_V3_17.17	11/05/2017	09:21:10	09:21:21	57.068417	-7.256700	57.068433	-7.256733	24.1	24.3
Sound of Barra 2017	S4_V3_17.18	11/05/2017	09:21:21	09:21:25	57.068433	-7.256733	57.068433	-7.256750	24.3	24.2
Sound of Barra 2017	S4_V3_17.19	11/05/2017	09:21:25	09:24:20	57.068433	-7.256750	57.068683	-7.257183	24.2	23.3
Sound of Barra 2017	S4_V3_17.20	11/05/2017	09:24:20	09:25:07	57.068683	-7.257183	57.068750	-7.257300	23.3	23.0
Sound of Barra 2017	S4_V3_17.21	11/05/2017	09:25:07	09:26:40	57.068750	-7.257300	57.068850	-7.257600	23.0	22.5
Sound of Barra 2017	S4_V3_17.22	11/05/2017	09:26:40	09:28:02	57.068850	-7.257600	57.068950	-7.257883	22.5	22.2
Sound of Barra 2017	S4_V3_17.23	11/05/2017	09:28:02	09:28:26	57.068950	-7.257883	57.068967	-7.257933	22.2	22.2
Sound of Barra 2017	S4_V3_17.24	11/05/2017	09:28:26	09:28:37	57.068967	-7.257933	57.068983	-7.257967	22.2	22.5

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Sound of Barra 2017	S4_V3_17.25	11/05/2017	09:28:37	09:32:33	57.068983	-7.257967	57.069350	-7.258300	22.5	22.4
Sound of Barra 2017	S4_V3_17.26	11/05/2017	09:32:33	09:32:45	57.069350	-7.258300	57.069383	-7.258300	22.4	22.3
Sound of Barra 2017	S4_V3_17.27	11/05/2017	09:32:45	09:33:36	57.069383	-7.258300	57.069450	-7.258300	22.3	21.4
Sound of Barra 2017	S5_V1_17.01	05/05/2017	13:23:59	13:30:22	57.022800	-7.307167	57.021700	-7.307267	30.4	29.6
Sound of Barra 2017	S5_V1_17.02	05/05/2017	13:30:22	13:31:47	57.021700	-7.307267	57.021500	-7.307267	29.6	29.4
Sound of Barra 2017	S5_V1_17.03	05/05/2017	13:31:47	13:45:01	57.021500	-7.307267	57.019467	-7.307167	29.4	26.7
Sound of Barra 2017	S5_V1_17.04	05/05/2017	13:45:01	13:47:27	57.019467	-7.307167	57.019117	-7.307150	26.7	26.7
Sound of Barra 2017	S5_V1_17.05	05/05/2017	13:47:27	13:49:46	57.019117	-7.307150	57.018750	-7.307083	26.7	26.4
Sound of Barra 2017	S5_V1_17.06	05/05/2017	13:49:46	13:50:30	57.018750	-7.307083	57.018650	-7.307067	26.4	26.2
Sound of Barra 2017	S5_V1_17.07	05/05/2017	13:50:30	13:51:23	57.018650	-7.307067	57.018533	-7.307067	26.2	26.4
Sound of Barra 2017	S5_V1_17.08	05/05/2017	13:51:23	13:52:41	57.018533	-7.307067	57.018333	-7.307117	26.4	26.5
Sound of Barra 2017	S5_V1_17.09	05/05/2017	13:52:41	14:01:34	57.018333	-7.307117	57.016983	-7.307000	26.5	27.2
Sound of Barra 2017	S5_V1_17.10	05/05/2017	14:01:34	14:02:19	57.016983	-7.307000	57.016850	-7.306950	27.2	29.0
Sound of Barra 2017	S5_V1_17.11	05/05/2017	14:02:19	14:05:47	57.016850	-7.306950	57.016300	-7.307083	29.0	25.9
Sound of Barra 2017	S5_V1_17.12	05/05/2017	14:05:47	14:06:23	57.016300	-7.307083	57.016183	-7.307100	25.9	24.8
Sound of Barra 2017	S5_V1_17.13	05/05/2017	14:06:23	14:06:41	57.016183	-7.307100	57.016133	-7.307100	29.0	25.9
Sound of Barra 2017	S5_V1_17.14	05/05/2017	14:06:41	14:07:21	57.016133	-7.307100	57.016000	-7.307083	25.0	25.5
Sound of Barra 2017	S5_V1_17.15	05/05/2017	14:07:21	14:09:17	57.016000	-7.307083	57.015717	-7.307067	25.5	22.9
Sound of Barra 2017	S5_V1_17.16	05/05/2017	14:09:17	14:10:45	57.015717	-7.307067	57.015483	-7.307083	22.9	23.9
Sound of Barra 2017	S5_V1_17.17	05/05/2017	14:10:45	14:13:52	57.015483	-7.307083	57.014967	-7.307067	23.9	24.4
Sound of Barra 2017	S5_V1_17.18	05/05/2017	14:13:52	14:16:23	57.014967	-7.307067	57.014550	-7.306983	24.4	25.4
Sound of Barra 2017	S5_V1_17.19	05/05/2017	14:16:23	14:32:03	57.014550	-7.306983	57.011850	-7.307300	25.4	28.9
Sound of Barra 2017	S5_V1_17.20	05/05/2017	14:32:03	14:32:12	57.011850	-7.307300	57.011783	-7.307300	28.9	28.9
Sound of Barra 2017	S5_V1_17.21	05/05/2017	14:32:12	14:33:25	57.011783	-7.307300	57.011600	-7.307383	28.9	29.1
Sound of Barra 2017	S5_V2_17.01	05/05/2017	14:46:53	14:47:30	57.021783	-7.308767	57.021633	-7.308767	29.0	27.6
Sound of Barra 2017	S5_V2_17.02	05/05/2017	14:47:30	14:47:52	57.021633	-7.308767	57.021533	-7.308783	27.6	30.1
Sound of Barra 2017	S5_V2_17.03	05/05/2017	14:47:52	14:47:55	57.021533	-7.308783	57.021517	-7.308783	30.1	30.2
Sound of Barra 2017	S5_V2_17.04	05/05/2017	14:47:55	14:49:37	57.021517	-7.308783	57.021117	-7.309000	30.2	30.2
Sound of Barra 2017	S5_V2_17.05	05/05/2017	14:49:37	14:50:20	57.021117	-7.309000	57.020933	-7.309050	30.2	29.9
Sound of Barra 2017	S5_V2_17.06	05/05/2017	14:50:20	14:53:33	57.020933	-7.309050	57.020117	-7.309267	29.9	29.7

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Sound of Barra 2017	S5_V2_17.07	05/05/2017	14:53:33	14:54:31	57.020117	-7.309267	57.019867	-7.309333	29.7	27.6
Sound of Barra 2017	S5_V2_17.08	05/05/2017	14:54:31	14:54:55	57.019867	-7.309333	57.019750	-7.309350	27.6	28.2
Sound of Barra 2017	S5_V2_17.09	05/05/2017	14:54:55	14:55:25	57.019750	-7.309350	57.019617	-7.309350	28.2	29.4
Sound of Barra 2017	S5_V2_17.10	05/05/2017	14:55:25	14:55:45	57.019617	-7.309350	57.019533	-7.309367	29.4	29.5
Sound of Barra 2017	S5_V2_17.11	05/05/2017	14:55:45	14:56:10	57.019533	-7.309367	57.019417	-7.309367	29.5	27.9
Sound of Barra 2017	S5_V2_17.12	05/05/2017	14:56:10	15:02:42	57.019417	-7.309367	57.017750	-7.309517	27.9	27.9
Sound of Barra 2017	S5_V2_17.13	05/05/2017	15:02:42	15:02:58	57.017750	-7.309517	57.017700	-7.309533	27.9	27.7
Sound of Barra 2017	S5_V2_17.14	05/05/2017	15:02:58	15:03:54	57.017700	-7.309533	57.017467	-7.309517	27.7	27.4
Sound of Barra 2017	S5_V2_17.15	05/05/2017	15:03:54	15:04:12	57.017467	-7.309517	57.017400	-7.309500	27.4	27.2
Sound of Barra 2017	S5_V2_17.16	05/05/2017	15:04:12	15:06:24	57.017400	-7.309500	57.016867	-7.309500	27.2	26.2
Sound of Barra 2017	S5_V2_17.17	05/05/2017	15:06:24	15:08:04	57.016867	-7.309500	57.016450	-7.309567	26.2	20.5
Sound of Barra 2017	S5_V2_17.18	05/05/2017	15:08:04	15:27:23	57.016450	-7.309567	57.012083	-7.309950	20.5	28.0
Sound of Barra 2017	S6_V1_17.01	06/05/2017	07:27:04	07:29:55	57.002933	-7.313483	57.002733	-7.314433	29.9	29.9
Sound of Barra 2017	S6_V1_17.02	06/05/2017	07:29:55	07:30:12	57.002733	-7.314433	57.002717	-7.314533	29.9	29.8
Sound of Barra 2017	S6_V1_17.03	06/05/2017	07:30:12	07:31:11	57.002717	-7.314533	57.002717	-7.314883	29.8	29.6
Sound of Barra 2017	S6_V1_17.04	06/05/2017	07:31:11	07:31:29	57.002717	-7.314883	57.002717	-7.315000	29.6	29.6
Sound of Barra 2017	S6_V1_17.05	06/05/2017	07:31:29	07:32:56	57.002717	-7.315000	57.002600	-7.315450	29.6	29.8
Sound of Barra 2017	S6_V1_17.06	06/05/2017	07:32:56	07:35:29	57.002600	-7.315450	57.002250	-7.316367	29.8	27.4
Sound of Barra 2017	S6_V1_17.07	06/05/2017	07:35:29	07:37:51	57.002250	-7.316367	57.001833	-7.317183	27.4	27.7
Sound of Barra 2017	S6_V1_17.08	06/05/2017	07:37:51	07:39:06	57.001833	-7.317183	57.001650	-7.317567	27.7	27.5
Sound of Barra 2017	S6_V1_17.09	06/05/2017	07:39:06	07:39:18	57.001650	-7.317567	57.001633	-7.317617	27.5	27.3
Sound of Barra 2017	S6_V1_17.10	06/05/2017	07:39:18	07:40:28	57.001633	-7.317617	57.001483	-7.318033	27.3	26.3
Sound of Barra 2017	S6_V1_17.11	06/05/2017	07:40:28	07:43:14	57.001483	-7.318033	57.001083	-7.318933	26.3	27.6
Sound of Barra 2017	S6_V1_17.12	06/05/2017	07:43:14	07:44:29	57.001083	-7.318933	57.000867	-7.319317	27.6	27.3
Sound of Barra 2017	S6_V1_17.13	06/05/2017	07:44:29	07:53:51	57.000867	-7.319317	56.999300	-7.322383	27.3	29.8
Sound of Barra 2017	S6_V1_17.14	06/05/2017	07:53:51	07:56:21	56.999300	-7.322383	56.998800	-7.323200	29.8	26.8
Sound of Barra 2017	S6_V1_17.15	06/05/2017	07:56:21	07:57:01	56.998800	-7.323200	56.998683	-7.323417	26.8	26.6
Sound of Barra 2017	S6_V1_17.16	06/05/2017	07:57:01	07:57:46	56.998683	-7.323417	56.998550	-7.323633	26.6	27.8
Sound of Barra 2017	S6_V1_17.17	06/05/2017	07:57:46	07:58:01	56.998550	-7.323633	56.998517	-7.323700	27.8	27.9
Sound of Barra 2017	S6_V1_17.18	06/05/2017	07:58:01	08:00:11	56.998517	-7.323700	56.998167	-7.324450	27.9	29.4

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Sound of Barra 2017	S6_V2_17.01	06/05/2017	08:13:05	08:15:35	57.004300	-7.316333	57.003883	-7.317217	26.9	27.7
Sound of Barra 2017	S6_V2_17.02	06/05/2017	08:15:35	08:16:07	57.003883	-7.317217	57.003783	-7.317433	27.7	27.7
Sound of Barra 2017	S6_V2_17.03	06/05/2017	08:16:07	08:18:01	57.003783	-7.317433	57.003500	-7.318017	27.7	27.6
Sound of Barra 2017	S6_V2_17.04	06/05/2017	08:18:01	08:18:20	57.003500	-7.318017	57.003450	-7.318083	27.6	27.6
Sound of Barra 2017	S6_V2_17.05	06/05/2017	08:18:20	08:27:01	57.003450	-7.318083	57.002000	-7.320833	27.6	28.2
Sound of Barra 2017	S6_V2_17.06	06/05/2017	08:27:01	08:27:22	57.002000	-7.320833	57.001933	-7.320950	28.2	27.7
Sound of Barra 2017	S6_V2_17.07	06/05/2017	08:27:22	08:36:48	57.001933	-7.320950	57.000417	-7.324117	27.7	30.7
Sound of Barra 2017	S6_V2_17.08	06/05/2017	08:36:48	08:37:37	57.000417	-7.324117	57.000350	-7.324400	30.7	31.0
Sound of Barra 2017	S6_V2_17.09	06/05/2017	08:37:37	08:38:14	57.000350	-7.324400	57.000300	-7.324583	31.0	31.1
Sound of Barra 2017	S6_V2_17.10	06/05/2017	08:38:14	08:40:25	57.000300	-7.324583	56.999850	-7.325250	31.1	29.0
Sound of Barra 2017	S6_V2_17.11	06/05/2017	08:40:25	08:44:11	56.999850	-7.325250	56.999167	-7.326017	29.0	29.9
Sound of Barra 2017	S6_V2_17.12	06/05/2017	08:44:11	08:44:25	56.999167	-7.326017	56.999117	-7.326067	29.9	29.9
Sound of Barra 2017	S6_V2_17.13	06/05/2017	08:44:25	08:45:19	56.999117	-7.326067	56.998967	-7.326283	29.9	30.8
Sound of Barra 2017	S7_V1_17.01	06/05/2017	09:09:50	09:09:59	56.986650	-7.351650	56.986650	-7.351700	24.9	25.0
Sound of Barra 2017	S7_V1_17.02	06/05/2017	09:09:59	09:11:18	56.986650	-7.351700	56.986633	-7.352283	25.0	26.5
Sound of Barra 2017	S7_V2_17.01	06/05/2017	09:33:11	10:05:25	56.985367	-7.351467	56.987383	-7.359833	31.1	26.8
Sound of Barra 2017	S7_V2_17.02	06/05/2017	10:05:25	10:06:24	56.987383	-7.359833	56.987433	-7.360117	26.8	27.1
Sound of Barra 2017	S7_V2_17.03	06/05/2017	10:06:24	10:06:46	56.987433	-7.360117	56.987433	-7.360233	27.1	27.6
Sound of Barra 2017	S7_V2_17.04	06/05/2017	10:06:46	10:06:54	56.987433	-7.360233	56.987450	-7.360250	27.6	27.6
Sound of Barra 2017	S7_V2_17.05	06/05/2017	10:06:54	10:07:09	56.987450	-7.360250	56.987467	-7.360283	27.6	27.6
Sound of Barra 2017	S7_V2_17.06	06/05/2017	10:07:09	10:08:58	56.987467	-7.360283	56.987533	-7.360733	27.6	28.1
Sound of Barra 2017	S7_V2_17.07	06/05/2017	10:08:58	10:24:50	56.987533	-7.360733	56.988667	-7.365233	28.1	27.3
Sound of Barra 2017	S7_V3_17.01	06/05/2017	11:06:33	11:07:57	56.983417	-7.353150	56.983450	-7.353450	29.1	28.5
Sound of Barra 2017	S7_V3_17.02	06/05/2017	11:07:57	11:08:41	56.983450	-7.353450	56.983500	-7.353617	28.5	28.2
Sound of Barra 2017	S7_V3_17.03	06/05/2017	11:08:41	11:15:56	56.983500	-7.353617	56.984017	-7.355500	28.2	26.4
Sound of Barra 2017	S7_V3_17.04	06/05/2017	11:15:56	11:16:09	56.984017	-7.355500	56.984033	-7.355567	26.4	26.5
Sound of Barra 2017	S7_V4_17.01	06/05/2017	11:31:41	11:51:46	56.983733	-7.355500	56.985300	-7.360150	26.7	19.4
Sound of Barra 2017	S7_V4_17.02	06/05/2017	11:51:46	11:53:20	56.985300	-7.360150	56.985483	-7.360633	19.4	19.8
Sound of Barra 2017	S7_V4_17.03	06/05/2017	11:53:20	11:54:01	56.985483	-7.360633	56.985550	-7.360783	19.8	17.7
Sound of Barra 2017	S7_V4_17.04	06/05/2017	11:54:01	11:59:58	56.985550	-7.360783	56.986033	-7.362183	17.7	18.3

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Sound of Barra 2017	S7_V4_17.05	06/05/2017	11:59:58	12:00:24	56.986033	-7.362183	56.986067	-7.362300	18.3	18.3
Sound of Barra 2017	S7_V4_17.06	06/05/2017	12:00:24	12:03:12	56.986067	-7.362300	56.986333	-7.363100	18.3	24.2
Sound of Barra 2017	S7_V4_17.07	06/05/2017	12:03:12	12:04:05	56.986333	-7.363100	56.986450	-7.363350	24.2	22.6
Sound of Barra 2017	S7_V4_17.08	06/05/2017	12:04:05	12:05:37	56.986450	-7.363350	56.986550	-7.363850	22.6	24.0
Sound of Barra 2017	S7_V4_17.09	06/05/2017	12:05:37	12:05:53	56.986550	-7.363850	56.986567	-7.363933	24.0	24.6
Sound of Barra 2017	S7_V4_17.10	06/05/2017	12:05:53	12:06:40	56.986567	-7.363933	56.986633	-7.364183	24.6	25.4
Sound of Barra 2017	S7_V4_17.11	06/05/2017	12:06:40	12:14:19	56.986633	-7.364183	56.987250	-7.366433	25.4	26.1
Sound of Barra 2017	S8_V1_17.01	06/05/2017	12:53:30	12:54:15	56.959850	-7.378767	56.959900	-7.379033	23.2	24.8
Sound of Barra 2017	S8_V1_17.02	06/05/2017	12:54:15	12:54:29	56.959900	-7.379033	56.959917	-7.379117	24.8	24.5
Sound of Barra 2017	S8_V1_17.03	06/05/2017	12:54:29	12:54:49	56.959917	-7.379117	56.959950	-7.379250	24.5	24.6
Sound of Barra 2017	S8_V1_17.04	06/05/2017	12:54:49	13:24:02	56.959950	-7.379250	56.962933	-7.390267	24.6	28.9
Sound of Barra 2017	S8_V1_17.05	06/05/2017	13:24:02	13:27:43	56.962933	-7.390267	56.963033	-7.392000	28.9	24.7
Sound of Barra 2017	S8_V1_17.06	06/05/2017	13:27:43	13:28:08	56.963033	-7.392000	56.963067	-7.392117	24.7	23.8
Sound of Barra 2017	S8_V2_17.01	06/05/2017	13:44:16	13:49:33	56.957583	-7.380367	56.958100	-7.382033	29.3	28.4
Sound of Barra 2017	S8_V2_17.02	06/05/2017	13:49:33	13:50:47	56.958100	-7.382033	56.958217	-7.382400	28.4	28.1
Sound of Barra 2017	S8_V2_17.03	06/05/2017	13:50:47	13:53:26	56.958217	-7.382400	56.958433	-7.383217	28.1	28.4
Sound of Barra 2017	S8_V2_17.04	06/05/2017	13:53:26	13:55:41	56.958433	-7.383217	56.958583	-7.384000	28.4	28.5
Sound of Barra 2017	S8_V2_17.05	06/05/2017	13:55:41	13:55:56	56.958583	-7.384000	56.958600	-7.384067	28.5	28.5
Sound of Barra 2017	S8_V2_17.06	06/05/2017	13:55:56	13:57:46	56.958600	-7.384067	56.958817	-7.384583	28.5	27.9
Sound of Barra 2017	S8_V2_17.07	06/05/2017	15:37:46	14:08:47	56.958817	-7.384583	56.959650	-7.388250	27.9	26.9
Sound of Barra 2017	S8_V2_17.08	06/05/2017	14:08:47	14:09:29	56.959650	-7.388250	56.959717	-7.388500	26.9	26.8
Sound of Barra 2017	S8_V2_17.09	06/05/2017	14:09:29	14:28:27	56.959717	-7.388500	56.960917	-7.393900	26.8	27.6
Sound of Barra 2017	S8_V3_17.01	06/05/2017	14:41:50	14:50:42	56.956300	-7.381767	56.957217	-7.384617	28.5	29.4
Sound of Barra 2017	S8_V3_17.02	06/05/2017	14:50:42	14:51:22	56.957217	-7.384617	56.957283	-7.384833	29.4	29.4
Sound of Barra 2017	S8_V3_17.03	06/05/2017	14:51:22	14:58:19	56.957283	-7.384833	56.957983	-7.386950	29.4	28.3
Sound of Barra 2017	S8_V3_17.04	06/05/2017	14:58:19	15:00:38	56.957983	-7.386950	56.958183	-7.387683	28.3	27.2
Sound of Barra 2017	S8_V3_17.05	06/05/2017	15:00:38	15:01:42	56.958183	-7.387683	56.958267	-7.388083	27.2	27.0
Sound of Barra 2017	S9_V1_17.01	07/05/2017	09:45:23	09:45:49	56.934267	-7.415767	56.934150	-7.415833	31.1	31.9
Sound of Barra 2017	S9_V1_17.02	07/05/2017	09:45:49	09:46:41	56.934150	-7.415833	56.933917	-7.416083	31.9	32.5
Sound of Barra 2017	S9_V1_17.03	07/05/2017	09:46:41	09:47:34	56.933917	-7.416083	56.933683	-7.416350	32.5	32.6

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Sound of Barra 2017	S9_V1_17.04	07/05/2017	09:47:34	09:47:47	56.933683	-7.416350	56.933617	-7.416417	32.6	32.4
Sound of Barra 2017	S9_V1_17.05	07/05/2017	09:47:47	09:47:59	56.933617	-7.416417	56.933550	-7.416467	32.4	32.4
Sound of Barra 2017	S9_V1_17.06	07/05/2017	09:47:59	09:49:17	56.933550	-7.416467	56.933167	-7.416717	32.4	30.5
Sound of Barra 2017	S9_V1_17.07	07/05/2017	09:49:17	09:49:47	56.933167	-7.416717	56.933017	-7.416817	30.5	31.1
Sound of Barra 2017	S9_V1_17.08	07/05/2017	09:49:47	09:49:59	56.933017	-7.416817	56.932967	-7.416850	31.1	31.1
Sound of Barra 2017	S9_V1_17.09	07/05/2017	09:49:59	09:50:42	56.932967	-7.416850	56.932767	-7.417067	31.1	31.0
Sound of Barra 2017	S9_V1_17.10	07/05/2017	09:50:42	09:51:43	56.932767	-7.417067	56.932533	-7.417417	31.0	31.2
Sound of Barra 2017	S9_V1_17.11	07/05/2017	09:51:43	09:52:26	56.932533	-7.417417	56.932383	-7.417667	31.2	31.4
Sound of Barra 2017	S9_V1_17.12	07/05/2017	09:52:26	09:52:48	56.932383	-7.417667	56.932283	-7.417800	31.4	31.1
Sound of Barra 2017	S9_V1_17.13	07/05/2017	09:52:48	09:54:10	56.932283	-7.417800	56.931950	-7.418233	31.1	29.7
Sound of Barra 2017	S9_V1_17.14	07/05/2017	09:54:10	09:56:06	56.931950	-7.418233	56.931400	-7.418583	29.7	25.9
Sound of Barra 2017	S9_V1_17.15	07/05/2017	09:56:06	09:56:38	56.931400	-7.418583	56.931283	-7.418683	25.9	28.5
Sound of Barra 2017	S9_V2_17.01	07/05/2017	10:08:21	10:21:09	56.935750	-7.418483	56.932800	-7.421283	28.2	28.9
Sound of Barra 2017	S9_V2_17.02	07/05/2017	10:21:09	10:22:43	56.932800	-7.421283	56.932400	-7.421550	28.9	28.0
Sound of Barra 2017	S9_V2_17.03	07/05/2017	10:22:43	10:22:52	56.932400	-7.421550	56.932350	-7.421567	28.0	28.3
Sound of Barra 2017	S9_V2_17.04	07/05/2017	10:22:52	10:23:57	56.932350	-7.421567	56.932083	-7.421767	28.3	28.3
Sound of Barra 2017	S9_V3_17.01	08/05/2017	06:56:07	06:57:04	56.936450	-7.422967	56.936217	-7.423267	24.3	26.0
Sound of Barra 2017	S9_V3_17.02	08/05/2017	06:57:04	06:58:23	56.936217	-7.423267	56.935900	-7.423667	26.0	26.4
Sound of Barra 2017	S9_V3_17.03	08/05/2017	06:58:23	07:10:57	56.935900	-7.423667	56.933883	-7.428117	26.4	26.9
Sound of Barra 2017	S9_V3_17.04	08/05/2017	07:10:57	07:11:15	56.933883	-7.428117	56.933817	-7.428200	26.9	27.1
Sound of Barra 2017	S9_V3_17.05	08/05/2017	07:11:15	07:12:12	56.933817	-7.428200	56.933633	-7.428433	27.1	27.1
Sound of Barra 2017	S9_V4_17.01	08/05/2017	07:27:07	07:29:15	56.937433	-7.429450	56.936917	-7.430150	24.3	25.9
Sound of Barra 2017	S9_V4_17.02	08/05/2017	07:29:15	07:29:37	56.936917	-7.430150	56.936833	-7.430300	25.9	26.2
Sound of Barra 2017	S9_V4_17.03	08/05/2017	07:29:37	07:30:12	56.936833	-7.430300	56.936733	-7.430567	26.2	26.2
Sound of Barra 2017	S9_V4_17.04	08/05/2017	07:30:12	07:30:36	56.936733	-7.430567	56.936683	-7.430750	26.2	26.9
Sound of Barra 2017	S9_V4_17.05	08/05/2017	07:30:36	07:30:54	56.936683	-7.430750	56.936633	-7.430883	26.9	26.7
Sound of Barra 2017	S9_V4_17.06	08/05/2017	07:30:54	07:32:50	56.936633	-7.430883	56.936283	-7.431650	26.7	26.3
Sound of Barra 2017	S9_V4_17.07	08/05/2017	07:32:50	07:38:29	56.936283	-7.431650	56.935083	-7.433667	26.3	25.7
Sound of Barra 2017	S10_V1_17.01	07/05/2017	06:32:03	06:50:22	56.910983	-7.480933	56.905933	-7.486033	22.7	26.8
Sound of Barra 2017	S10_V1_17.02	07/05/2017	06:50:22	06:51:49	56.905933	-7.486033	56.905533	-7.486300	26.8	26.9

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Sound of Barra 2017	S10_V1_17.03	07/05/2017	06:51:49	07:04:20	56.905533	-7.486300	56.902633	-7.489483	26.9	24.8
Sound of Barra 2017	S10_V2_17.01	07/05/2017	07:20:38	07:21:36	56.913017	-7.484750	56.912717	-7.485183	21.4	21.6
Sound of Barra 2017	S10_V2_17.02	07/05/2017	07:21:36	07:29:43	56.912717	-7.485183	56.910000	-7.488383	21.6	23.9
Sound of Barra 2017	S10_V2_17.03	07/05/2017	07:29:43	07:49:56	56.910000	-7.488383	56.904450	-7.495033	23.9	25.1
Sound of Barra 2017	S10_V3_17	07/05/2017	08:05:47	09:02:18	56.912417	-7.481617	56.903250	-7.491083	21.9	26.5
Sound of Barra 2017	S11_V1_17.01	10/05/2017	11:24:51	11:25:27	57.138517	-7.218267	57.138417	-7.218183	32.9	32.6
Sound of Barra 2017	S11_V1_17.02	10/05/2017	11:25:27	11:25:45	57.138417	-7.218183	57.138367	-7.218133	32.6	32.5
Sound of Barra 2017	S11_V1_17.03	10/05/2017	11:25:45	11:27:03	57.138367	-7.218133	57.138150	-7.218100	32.5	32.6
Sound of Barra 2017	S11_V1_17.04	10/05/2017	11:27:03	11:29:06	57.138150	-7.218100	57.137867	-7.218283	32.6	34.2
Sound of Barra 2017	S11_V1_17.05	10/05/2017	11:29:06	11:36:21	57.137867	-7.218283	57.136750	-7.218683	34.2	33.5
Sound of Barra 2017	S11_V1_17.06	10/05/2017	11:36:21	11:36:55	57.136750	-7.218683	57.136633	-7.218700	33.5	33.3
Sound of Barra 2017	S11_V1_17.07	10/05/2017	11:36:55	11:48:44	57.136633	-7.218700	57.134533	-7.219083	33.3	35.7
Sound of Barra 2017	S11_V1_17.08	10/05/2017	11:48:44	11:48:54	57.134533	-7.219083	57.134500	-7.219083	35.7	35.7
Sound of Barra 2017	S11_V1_17.09	10/05/2017	11:48:54	11:50:03	57.134500	-7.219083	57.134333	-7.219167	35.7	34.3
Sound of Barra 2017	S11_V1_17.10	10/05/2017	11:50:03	11:52:47	57.134333	-7.219167	57.133850	-7.218917	34.3	34.2
Sound of Barra 2017	S11_V1_17.11	10/05/2017	11:52:47	11:57:11	57.133850	-7.218917	57.133000	-7.218850	34.2	34.9
Sound of Barra 2017	S11_V1_17.12	10/05/2017	11:57:11	11:57:24	57.133000	-7.218850	57.132950	-7.218850	34.9	35.8
Sound of Barra 2017	S11_V1_17.13	10/05/2017	11:57:24	11:58:40	57.132950	-7.218850	57.132800	-7.218900	35.8	36.9
Sound of Barra 2017	S11_V1_17.14	10/05/2017	11:58:40	11:59:35	57.132800	-7.218900	57.132683	-7.218933	36.9	36.8
Sound of Barra 2017	S11_V1_17.15	10/05/2017	11:59:35	12:01:14	57.132683	-7.218933	57.132433	-7.218833	36.8	35.6
Sound of Barra 2017	S11_V1_17.16	10/05/2017	12:01:14	12:01:45	57.132433	-7.218833	57.132350	-7.218817	35.6	36.4
Sound of Barra 2017	S11_V1_17.17	10/05/2017	12:01:45	12:02:40	57.132350	-7.218817	57.132200	-7.218833	36.4	37.7
Sound of Barra 2017	S11_V1_17.18	10/05/2017	12:02:40	12:02:54	57.132200	-7.218833	57.132167	-7.218850	37.7	38.4
Sound of Barra 2017	S11_V1_17.19	10/05/2017	12:02:54	12:10:25	57.132167	-7.218850	57.131383	-7.218450	38.4	31.2
Sound of Barra 2017	S11_V1_17.20	10/05/2017	12:10:25	12:10:42	57.131383	-7.218450	57.131350	-7.218400	31.2	31.8
Sound of Barra 2017	S11_V2_17.01	10/05/2017	12:30:36	12:34:48	57.137383	-7.225483	57.137017	-7.224900	26.8	25.8
Sound of Barra 2017	S11_V2_17.02	10/05/2017	12:34:48	12:36:44	57.137017	-7.224900	57.136800	-7.224750	25.8	26.9
Sound of Barra 2017	S11_V2_17.03	10/05/2017	12:36:44	12:37:39	57.136800	-7.224750	57.136733	-7.224650	26.9	26.5
Sound of Barra 2017	S11_V2_17.04	10/05/2017	12:37:39	12:39:18	57.136733	-7.224650	57.136617	-7.224317	26.5	28.6
Sound of Barra 2017	S11_V2_17.05	10/05/2017	12:39:18	12:45:29	57.136617	-7.224317	57.136083	-7.223317	28.6	33.9

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Sound of Barra 2017	S11_V2_17.06	10/05/2017	12:45:29	12:45:48	57.136083	-7.223317	57.136050	-7.223300	33.9	33.6
Sound of Barra 2017	S11_V2_17.07	10/05/2017	12:45:48	12:47:34	57.136050	-7.223300	57.135817	-7.223283	33.6	31.0
Sound of Barra 2017	S11_V2_17.08	10/05/2017	12:47:34	12:47:59	57.135817	-7.223283	57.135733	-7.223250	31.0	30.4
Sound of Barra 2017	S11_V2_17.09	10/05/2017	12:47:59	12:48:12	57.135733	-7.223250	57.135717	-7.223267	30.4	30.2
Sound of Barra 2017	S11_V2_17.10	10/05/2017	12:48:12	12:48:17	57.135717	-7.223267	57.135700	-7.223250	30.2	30.2
Sound of Barra 2017	S11_V2_17.11	10/05/2017	12:48:17	12:48:51	57.135700	-7.223250	57.135583	-7.223183	30.2	30.5
Sound of Barra 2017	S11_V2_17.12	10/05/2017	12:48:51	12:49:18	57.135583	-7.223183	57.135483	-7.223117	30.5	30.6
Sound of Barra 2017	S11_V2_17.13	10/05/2017	12:49:18	12:49:28	57.135483	-7.223117	57.135450	-7.223133	30.6	29.5
Sound of Barra 2017	S11_V2_17.14	10/05/2017	12:49:28	12:50:08	57.135450	-7.223133	57.135317	-7.223117	29.5	29.8
Sound of Barra 2017	S11_V2_17.15	10/05/2017	12:50:08	12:50:15	57.135317	-7.223117	57.135300	-7.223117	29.8	29.7
Sound of Barra 2017	S11_V2_17.16	10/05/2017	12:50:15	12:51:02	57.135300	-7.223117	57.135150	-7.223183	29.7	33.6
Sound of Barra 2017	S11_V2_17.17	10/05/2017	12:51:02	12:51:07	57.135150	-7.223183	57.135133	-7.223200	33.6	33.7
Sound of Barra 2017	S11_V2_17.18	10/05/2017	12:51:07	12:51:31	57.135133	-7.223200	57.135067	-7.223250	33.7	34.2
Sound of Barra 2017	S11_V2_17.19	10/05/2017	12:51:31	12:54:57	57.135067	-7.223250	57.134533	-7.223517	34.2	28.6
Sound of Barra 2017	S11_V2_17.20	10/05/2017	12:54:57	12:55:29	57.134533	-7.223517	57.134467	-7.223517	28.6	27.8
Sound of Barra 2017	S11_V2_17.21	10/05/2017	12:55:29	12:56:37	57.134467	-7.223517	57.134350	-7.223567	27.8	30.3
Sound of Barra 2017	S11_V2_17.22	10/05/2017	12:56:37	12:57:59	57.134350	-7.223567	57.134217	-7.223517	30.3	30.2
Sound of Barra 2017	S11_V2_17.23	10/05/2017	12:57:59	12:59:57	57.134217	-7.223517	57.134067	-7.223217	30.2	25.3
Sound of Barra 2017	S11_V2_17.24	10/05/2017	12:59:57	13:00:41	57.134067	-7.223217	57.133983	-7.223083	25.3	23.0
Sound of Barra 2018	S2_V1_18.01	09/06/2018	07:14:02	07:21:19	57.111162	-7.205307	57.110578	-7.206362	28.9	26.8
Sound of Barra 2018	S2_V1_18.02	09/06/2018	07:21:19	07:21:29	57.110578	-7.206362	57.110562	-7.206392	26.8	27.0
Sound of Barra 2018	S2_V1_18.03	09/06/2018	07:21:29	07:21:41	57.110562	-7.206392	57.110545	-7.206427	27.0	27.1
Sound of Barra 2018	S2_V1_18.04	09/06/2018	07:21:41	07:22:24	57.110545	-7.206427	57.110485	-7.206532	27.1	27.2
Sound of Barra 2018	S2_V1_18.05	09/06/2018	07:22:24	07:33:55	57.110485	-7.206532	57.109540	-7.208528	27.2	26.2
Sound of Barra 2018	S2_V1_18.06	09/06/2018	07:33:55	07:34:04	57.109540	-7.208528	57.109515	-7.208550	26.2	26.2
Sound of Barra 2018	S2_V1_18.07	09/06/2018	07:34:04	07:37:06	57.109515	-7.208550	57.109277	-7.209238	26.2	26.2
Sound of Barra 2018	S2_V1_18.08	09/06/2018	07:37:06	07:37:17	57.109277	-7.209238	57.109233	-7.209302	26.2	26.1
Sound of Barra 2018	S2_V1_18.09	09/06/2018	07:37:17	07:38:26	57.109233	-7.209302	57.109163	-7.209587	26.1	25.9
Sound of Barra 2018	S2_V1_18.10	09/06/2018	07:38:26	07:38:41	57.109163	-7.209587	57.109150	-7.209647	25.9	25.8
Sound of Barra 2018	S2_V1_18.11	09/06/2018	07:38:41	07:42:11	57.109150	-7.209647	57.108945	-7.210605	25.8	25.2

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Sound of Barra 2018	S2_V1_18.12	09/06/2018	07:42:11	07:44:52	57.108945	-7.210605	57.108823	-7.211272	25.2	24.2
Sound of Barra 2018	S2_V1_18.13	09/06/2018	07:44:52	07:48:50	57.108823	-7.211272	57.108797	-7.212055	24.2	23.5
Sound of Barra 2018	S2_V2_18.01	09/06/2018	07:59:15	08:02:13	57.110728	-7.202455	57.110535	-7.202735	31.4	29.4
Sound of Barra 2018	S2_V2_18.02	09/06/2018	08:02:13	08:05:33	57.110535	-7.202735	57.110288	-7.202982	29.4	28.8
Sound of Barra 2018	S2_V2_18.03	09/06/2018	08:05:33	08:06:01	57.110288	-7.202982	57.110255	-7.203012	28.8	29.3
Sound of Barra 2018	S2_V2_18.04	09/06/2018	08:06:01	08:08:15	57.110255	-7.203012	57.110073	-7.203133	29.3	27.7
Sound of Barra 2018	S2_V2_18.05	09/06/2018	08:08:15	08:09:14	57.110073	-7.203133	57.109985	-7.203197	27.7	26.6
Sound of Barra 2018	S2_V2_18.06	09/06/2018	08:09:14	08:12:46	57.109985	-7.203197	57.109663	-7.203397	26.6	27.9
Sound of Barra 2018	S2_V2_18.07	09/06/2018	08:12:46	08:15:25	57.109663	-7.203397	57.109423	-7.203612	27.9	31.6
Sound of Barra 2018	S2_V2_18.08	09/06/2018	08:15:25	08:16:33	57.109423	-7.203612	57.109323	-7.203713	31.6	32.7
Sound of Barra 2018	S2_V2_18.09	09/06/2018	08:16:33	08:20:30	57.109323	-7.203713	57.109008	-7.204175	32.7	31.2
Sound of Barra 2018	S2_V2_18.10	09/06/2018	08:20:30	08:23:08	57.109008	-7.204175	57.108798	-7.204527	31.2	31.1
Sound of Barra 2018	S2_V2_18.11	09/06/2018	08:23:08	08:31:51	57.108798	-7.204527	57.108133	-7.205643	31.1	30.3
Sound of Barra 2018	S2_V2_18.12	09/06/2018	08:31:51	08:32:35	57.108133	-7.205643	57.108085	-7.205725	30.3	30.0
Sound of Barra 2018	S2_V2_18.13	09/06/2018	08:32:35	08:43:37	57.108085	-7.205725	57.107640	-7.207190	30.0	27.5
Sound of Barra 2018	S2_V2_18.14	09/06/2018	08:43:37	08:44:59	57.107640	-7.207190	57.107602	-7.207347	27.5	26.4
Sound of Barra 2018	S2_V2_18.15	09/06/2018	08:44:59	08:46:06	57.107602	-7.207347	57.107567	-7.207467	26.4	26.8
Sound of Barra 2018	S2_V2_18.16	09/06/2018	08:46:06	08:48:44	57.107567	-7.207467	57.107530	-7.207845	26.8	26.1
Sound of Barra 2018	S2_V2_18.17	09/06/2018	08:48:44	08:49:56	57.107530	-7.207845	57.107510	-7.208040	26.1	25.6
Sound of Barra 2018	S2_V2_18.18	09/06/2018	08:49:56	08:51:45	57.107510	-7.208040	57.107495	-7.208308	25.6	23.5
Sound of Barra 2018	S2_V2_18.19	09/06/2018	08:51:45	08:55:07	57.107495	-7.208308	57.107492	-7.208913	23.5	23.0
Sound of Barra 2018	S2_V2_18.20	09/06/2018	08:55:07	08:55:36	57.107492	-7.208913	57.107488	-7.209007	23.0	23.2
Sound of Barra 2018	S2_V2_18.21	09/06/2018	08:55:36	08:55:55	57.107488	-7.209007	57.107477	-7.209060	23.2	23.3
Sound of Barra 2018	S3_V1_18	09/06/2018	09:27:45	09:31:35	57.081800	-7.245692	57.082092	-7.245912	25.8	24.6
Sound of Barra 2018	S3_V2_18.01	09/06/2018	09:37:49	09:38:32	57.079517	-7.245750	57.079648	-7.245685	24.9	25.2
Sound of Barra 2018	S3_V2_18.02	09/06/2018	09:38:32	09:38:42	57.079648	-7.245685	57.079670	-7.245662	25.2	24.8
Sound of Barra 2018	S3_V2_18.03	09/06/2018	09:38:42	09:40:25	57.079670	-7.245662	57.079902	-7.245493	24.8	24.7
Sound of Barra 2018	S3_V2_18.04	09/06/2018	09:40:25	09:53:03	57.079902	-7.245493	57.081477	-7.245207	24.7	26.0
Sound of Barra 2018	S3_V2_18.05	09/06/2018	09:53:03	09:53:59	57.081477	-7.245207	57.081597	-7.245172	26.0	25.8
Sound of Barra 2018	S3_V2_18.06	09/06/2018	09:53:59	09:55:32	57.081597	-7.245172	57.081790	-7.245155	25.8	25.9

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Sound of Barra 2018	S3_V2_18.07	09/06/2018	09:55:32	09:56:07	57.081790	-7.245155	57.081857	-7.245143	25.9	25.8
Sound of Barra 2018	S3_V3_18.01	09/06/2018	10:03:02	10:05:59	57.079170	-7.242578	57.079558	-7.242208	27.0	26.8
Sound of Barra 2018	S3_V3_18.02	09/06/2018	10:05:59	10:06:55	57.079558	-7.242208	57.079690	-7.242123	26.8	26.9
Sound of Barra 2018	S3_V3_18.03	09/06/2018	10:06:55	10:23:17	57.079690	-7.242123	57.081685	-7.241083	26.9	25.8
Sound of Barra 2018	S3_V4_18.01	09/06/2018	11:04:57	11:06:02	57.079428	-7.245007	57.079547	-7.245075	27.7	27.5
Sound of Barra 2018	S3_V4_18.02	09/06/2018	11:06:02	11:10:39	57.079547	-7.245075	57.080093	-7.245133	27.5	26.2
Sound of Barra 2018	S3_V4_18.03	09/06/2018	11:10:39	11:11:07	57.080093	-7.245133	57.080158	-7.245133	26.2	26.5
Sound of Barra 2018	S3_V4_18.04	09/06/2018	11:11:07	11:17:18	57.080158	-7.245133	57.080837	-7.244645	26.5	26.1
Sound of Barra 2018	S3_V4_18.05	09/06/2018	11:17:18	11:23:37	57.080837	-7.244645	57.081223	-7.243870	26.1	26.0
Sound of Barra 2018	S3_V4_18.06	09/06/2018	11:23:37	11:24:40	57.081223	-7.243870	57.081313	-7.243830	26.0	26.1
Sound of Barra 2018	S3_V4_18.07	09/06/2018	11:24:40	11:29:09	57.081313	-7.243830	57.081755	-7.243698	26.1	26.0
Sound of Barra 2018	S3_V4_18.08	09/06/2018	11:29:09	11:30:13	57.081755	-7.243698	57.081887	-7.243707	26.0	25.7
Sound of Barra 2018	S4_V1_18.01	09/06/2018	12:13:40	12:15:01	57.064027	-7.255530	57.064148	-7.255297	23.9	25.3
Sound of Barra 2018	S4_V1_18.02	09/06/2018	12:15:01	12:16:02	57.064148	-7.255297	57.064263	-7.255137	25.3	24.0
Sound of Barra 2018	S4_V1_18.03	09/06/2018	12:16:02	12:16:45	57.064263	-7.255137	57.064352	-7.255023	24.0	23.2
Sound of Barra 2018	S4_V1_18.04	09/06/2018	12:16:45	12:17:36	57.064352	-7.255023	57.064465	-7.254905	23.2	25.1
Sound of Barra 2018	S4_V1_18.05	09/06/2018	12:17:36	12:17:56	57.064465	-7.254905	57.064507	-7.254853	25.1	25.0
Sound of Barra 2018	S4_V1_18.06	09/06/2018	12:17:56	12:18:05	57.064507	-7.254853	57.064520	-7.254830	25.0	25.1
Sound of Barra 2018	S4_V1_18.07	09/06/2018	12:18:05	12:25:12	57.064520	-7.254830	57.065468	-7.253822	25.1	28.2
Sound of Barra 2018	S4_V1_18.08	09/06/2018	12:25:12	12:26:14	57.065468	-7.253822	57.065617	-7.253687	28.2	28.1
Sound of Barra 2018	S4_V1_18.09	09/06/2018	12:26:14	12:27:23	57.065617	-7.253687	57.065780	-7.253533	28.1	27.8
Sound of Barra 2018	S4_V1_18.10	09/06/2018	12:27:23	12:28:49	57.065780	-7.253533	57.065975	-7.253362	27.8	27.8
Sound of Barra 2018	S4_V1_18.11	09/06/2018	12:28:49	12:29:07	57.065975	-7.253362	57.066017	-7.253322	27.8	27.8
Sound of Barra 2018	S4_V1_18.12	09/06/2018	12:29:07	12:30:12	57.066017	-7.253322	57.066170	-7.253187	27.8	28.1
Sound of Barra 2018	S4_V1_18.13	09/06/2018	12:30:12	12:30:33	57.066170	-7.253187	57.066225	-7.253140	28.1	27.9
Sound of Barra 2018	S4_V1_18.14	09/06/2018	12:30:33	12:31:27	57.066225	-7.253140	57.066365	-7.253025	27.9	27.7
Sound of Barra 2018	S4_V1_18.15	09/06/2018	12:31:27	12:32:02	57.066365	-7.253025	57.066448	-7.252947	27.7	27.7
Sound of Barra 2018	S4_V1_18.16	09/06/2018	12:32:02	12:32:48	57.066448	-7.252947	57.066560	-7.252852	27.7	27.1
Sound of Barra 2018	S4_V1_18.17	09/06/2018	12:32:48	12:33:00	57.066560	-7.252852	57.066592	-7.252830	27.1	27.5
Sound of Barra 2018	S4_V1_18.18	09/06/2018	12:33:00	12:33:15	57.066592	-7.252830	57.066625	-7.252800	27.5	27.2

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Sound of Barra 2018	S4_V1_18.19	09/06/2018	12:33:15	12:34:59	57.066625	-7.252800	57.066873	-7.252590	27.2	26.5
Sound of Barra 2018	S4_V1_18.20	09/06/2018	12:34:59	12:35:26	57.066873	-7.252590	57.066942	-7.252542	26.5	27.5
Sound of Barra 2018	S4_V1_18.21	09/06/2018	12:35:26	12:39:18	57.066942	-7.252542	57.067532	-7.252128	27.5	27.6
Sound of Barra 2018	S4_V1_18.22	09/06/2018	12:39:18	12:40:30	57.067532	-7.252128	57.067727	-7.252012	27.6	27.8
Sound of Barra 2018	S4_V1_18.23	09/06/2018	12:40:30	12:44:40	57.067727	-7.252012	57.068420	-7.251692	27.8	27.6
Sound of Barra 2018	S4_V2_18.01	09/06/2018	12:54:13	13:08:20	57.064665	-7.258955	57.066820	-7.258493	27.2	25.0
Sound of Barra 2018	S4_V2_18.02	09/06/2018	13:08:20	13:08:23	57.066820	-7.258493	57.066835	-7.258490	25.0	25.0
Sound of Barra 2018	S4_V2_18.03	09/06/2018	13:08:23	13:09:51	57.066835	-7.258490	57.067080	-7.258450	25.0	24.5
Sound of Barra 2018	S4_V2_18.04	09/06/2018	13:09:51	13:09:58	57.067080	-7.258450	57.067103	-7.258448	24.5	24.6
Sound of Barra 2018	S4_V2_18.05	09/06/2018	13:09:58	13:11:16	57.067103	-7.258448	57.067338	-7.258397	24.6	24.1
Sound of Barra 2018	S4_V2_18.06	09/06/2018	13:11:16	13:11:33	57.067338	-7.258397	57.067382	-7.258373	24.1	24.0
Sound of Barra 2018	S4_V2_18.07	09/06/2018	13:11:33	13:13:08	57.067382	-7.258373	57.067633	-7.258312	24.0	23.7
Sound of Barra 2018	S4_V2_18.08	09/06/2018	13:13:08	13:13:41	57.067633	-7.258312	57.067738	-7.258283	23.7	23.7
Sound of Barra 2018	S4_V2_18.09	09/06/2018	13:13:41	13:17:16	57.067738	-7.258283	57.068335	-7.258090	23.7	23.5
Sound of Barra 2018	S4_V2_18.10	09/06/2018	13:17:16	13:17:30	57.068335	-7.258090	57.068373	-7.258078	23.5	23.4
Sound of Barra 2018	S4_V2_18.11	09/06/2018	13:17:30	13:17:47	57.068373	-7.258078	57.068417	-7.258063	23.4	23.0
Sound of Barra 2018	S4_V2_18.12	09/06/2018	13:17:47	13:19:18	57.068417	-7.258063	57.068667	-7.257965	23.0	22.8
Sound of Barra 2018	S4_V2_18.13	09/06/2018	13:19:18	13:19:48	57.068667	-7.257965	57.068715	-7.257920	22.8	23.2
Sound of Barra 2018	S4_V2_18.14	09/06/2018	13:19:48	13:19:55	57.068715	-7.257920	57.068757	-7.257935	23.2	23.2
Sound of Barra 2018	S4_V2_18.15	09/06/2018	13:19:55	13:20:33	57.068757	-7.257935	57.068817	-7.257917	23.2	21.5
Sound of Barra 2018	S4_V2_18.16	09/06/2018	13:20:33	13:20:41	57.068817	-7.257917	57.068833	-7.257917	21.5	21.5
Sound of Barra 2018	S4_V2_18.17	09/06/2018	13:20:41	13:21:28	57.068833	-7.257917	57.068983	-7.257867	21.5	22.6
Sound of Barra 2018	S4_V2_18.18	09/06/2018	13:21:28	13:21:35	57.068983	-7.257867	57.068983	-7.257867	22.6	22.6
Sound of Barra 2018	S4_V2_18.19	09/06/2018	13:21:35	13:24:23	57.068983	-7.257867	57.069467	-7.257733	22.6	20.9
Sound of Barra 2018	S4_V3_18.01	09/06/2018	13:32:16	13:36:16	57.065473	-7.255810	57.065880	-7.255495	27.1	26.5
Sound of Barra 2018	S4_V3_18.02	09/06/2018	13:36:16	13:36:47	57.065880	-7.255495	57.065950	-7.255458	26.5	26.3
Sound of Barra 2018	S4_V3_18.03	09/06/2018	13:36:47	13:41:14	57.065950	-7.255458	57.066638	-7.255140	26.3	26.3
Sound of Barra 2018	S4_V3_18.04	09/06/2018	13:41:14	13:42:07	57.066638	-7.255140	57.066772	-7.255073	26.3	26.4
Sound of Barra 2018	S4_V3_18.05	09/06/2018	13:41:57	13:42:38	57.066748	-7.255085	57.066848	-7.255035	26.4	26.4
Sound of Barra 2018	S4_V3_18.06	09/06/2018	13:42:03	13:46:44	57.066763	-7.255078	57.067432	-7.254763	26.4	26.6

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Sound of Barra 2018	S4_V3_18.07	09/06/2018	13:45:16	13:47:09	57.067227	-7.254848	57.067503	-7.254745	26.6	26.7
Sound of Barra 2018	S4_V3_18.08	09/06/2018	13:46:44	13:50:26	57.067432	-7.254763	57.068030	-7.254555	26.7	26.7
Sound of Barra 2018	S4_V3_18.09	09/06/2018	13:50:26	13:51:08	57.068030	-7.254555	57.068142	-7.254517	26.7	26.5
Sound of Barra 2018	S4_V3_18.10	09/06/2018	13:51:08	13:51:47	57.068142	-7.254517	57.068252	-7.254483	26.5	26.3
Sound of Barra 2018	S4_V3_18.11	09/06/2018	13:51:47	13:53:41	57.068252	-7.254483	57.068548	-7.254370	26.3	24.7
Sound of Barra 2018	S4_V3_18.12	09/06/2018	13:53:41	13:54:38	57.068548	-7.254370	57.068703	-7.254318	24.7	25.2
Sound of Barra 2018	S4_V3_18.13	09/06/2018	13:54:38	13:54:54	57.068703	-7.254318	57.068748	-7.254302	25.2	25.9
Sound of Barra 2018	S4_V3_18.14	09/06/2018	13:54:54	13:55:45	57.068748	-7.254302	57.068890	-7.254255	25.9	25.2
Sound of Barra 2018	S4_V3_18.15	09/06/2018	13:55:45	13:56:14	57.068890	-7.254255	57.068973	-7.254235	25.2	25.6
Sound of Barra 2018	S4_V3_18.16	09/06/2018	13:56:14	13:56:41	57.068973	-7.254235	57.069047	-7.254215	25.6	25.6
Sound of Barra 2018	S4_V3_18.17	09/06/2018	13:56:41	13:57:30	57.069047	-7.254215	57.069182	-7.254168	25.6	26.0
Sound of Barra 2018	S4_V3_18.18	09/06/2018	13:57:30	13:58:17	57.069182	-7.254168	57.069323	-7.254137	26.0	26.1
Sound of Barra 2018	S4_V3_18.19	09/06/2018	13:58:17	13:58:22	57.069323	-7.254137	57.069342	-7.254132	26.1	26.0
Sound of Barra 2018	S4_V3_18.20	09/06/2018	13:58:22	13:58:26	57.069342	-7.254132	57.069353	-7.254128	26.0	26.0
Sound of Barra 2018	S4_V3_18.21	09/06/2018	13:58:26	13:58:38	57.069353	-7.254128	57.069387	-7.254120	26.0	26.0
Sound of Barra 2018	S4_V3_18.22	09/06/2018	13:58:38	13:58:48	57.069387	-7.254120	57.069412	-7.254115	26.0	25.9
Sound of Barra 2018	S4_V3_18.23	09/06/2018	13:58:48	13:59:23	57.069412	-7.254115	57.069512	-7.254085	25.9	25.6
Sound of Barra 2018	S4_V3_18.24	09/06/2018	13:59:23	14:00:23	57.069512	-7.254085	57.069668	-7.254045	25.6	24.5
Sound of Barra 2018	S4_V3_18.25	09/06/2018	14:00:23	14:00:33	57.069668	-7.254045	57.069698	-7.254035	24.5	24.3
Sound of Barra 2018	S4_V3_18.26	09/06/2018	14:00:33	14:00:45	57.069698	-7.254035	57.069733	-7.254025	24.3	24.1
Sound of Barra 2018	S4_V3_18.27	09/06/2018	14:00:45	14:01:32	57.069733	-7.254025	57.069862	-7.253988	24.1	25.9
Sound of Barra 2018	S5_V1_18.01	10/06/2018	07:18:49	07:39:07	57.021780	-7.306732	57.020952	-7.308930	29.6	29.2
Sound of Barra 2018	S5_V1_18.02	10/06/2018	07:39:07	07:40:09	57.020952	-7.308930	57.020790	-7.308927	29.2	30.0
Sound of Barra 2018	S5_V1_18.03	10/06/2018	07:40:09	07:41:30	57.020790	-7.308927	57.020688	-7.309000	30.0	30.1
Sound of Barra 2018	S5_V1_18.04	10/06/2018	07:41:30	07:42:12	57.020688	-7.309000	57.020665	-7.309105	30.1	29.3
Sound of Barra 2018	S5_V1_18.05	10/06/2018	07:42:12	07:54:43	57.020665	-7.309105	57.019983	-7.309695	29.3	29.8
Sound of Barra 2018	S5_V2_18.01	10/06/2018	08:06:00	08:24:58	57.019033	-7.306483	57.018578	-7.309927	26.4	28.1
Sound of Barra 2018	S5_V2_18.02	10/06/2018	08:24:58	08:27:55	57.018578	-7.309927	57.018685	-7.310535	28.1	25.2
Sound of Barra 2018	S5_V2_18.03	10/06/2018	08:27:55	08:29:00	57.018685	-7.310535	57.018737	-7.310673	25.2	25.4
Sound of Barra 2018	S5_V2_18.04	10/06/2018	08:29:00	08:30:54	57.018737	-7.310673	57.018848	-7.310878	25.4	27.1

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Sound of Barra 2018	S5_V3_18.01	10/06/2018	08:39:05	08:47:16	57.014018	-7.306433	57.013503	-7.308177	27.3	26.9
Sound of Barra 2018	S5_V3_18.02	10/06/2018	08:47:16	08:47:30	57.013503	-7.308177	57.013455	-7.308258	26.9	27.2
Sound of Barra 2018	S5_V3_18.03	10/06/2018	08:47:30	08:57:20	57.013455	-7.308258	57.011978	-7.309343	27.2	27.8
Sound of Barra 2018	S5_V3_18.04	10/06/2018	08:57:20	08:57:27	57.011978	-7.309343	57.011960	-7.309335	27.8	27.8
Sound of Barra 2018	S5_V3_18.05	10/06/2018	08:57:27	08:57:39	57.011960	-7.309335	57.011913	-7.309307	27.8	27.8
Sound of Barra 2018	S5_V3_18.06	10/06/2018	08:57:39	08:58:07	57.011913	-7.309307	57.011853	-7.309285	27.8	27.7
Sound of Barra 2018	S6_V1_18.01	10/06/2018	11:07:18	11:09:03	56.999345	-7.324287	56.999382	-7.323867	29.7	30.9
Sound of Barra 2018	S6_V1_18.02	10/06/2018	11:09:03	11:21:06	56.999382	-7.323867	56.999400	-7.320333	30.9	29.1
Sound of Barra 2018	S6_V2_18.01	10/06/2018	11:29:13	11:30:51	57.001372	-7.321467	57.001557	-7.320987	28.2	27.9
Sound of Barra 2018	S6_V2_18.02	10/06/2018	11:30:51	11:31:13	57.001557	-7.320987	57.001595	-7.320880	27.9	27.9
Sound of Barra 2018	S6_V2_18.03	10/06/2018	11:31:13	11:43:05	57.001595	-7.320880	57.002640	-7.318755	27.9	25.0
Sound of Barra 2018	S6_V2_18.04	10/06/2018	11:43:05	11:45:54	57.002640	-7.318755	57.002578	-7.318292	25.0	26.4
Sound of Barra 2018	S6_V2_18.05	10/06/2018	11:45:54	11:50:46	57.002578	-7.318292	57.002348	-7.317065	26.4	23.8
Sound of Barra 2018	S6_V2_18.06	10/06/2018	11:50:46	11:51:10	57.002348	-7.317065	57.002338	-7.316967	23.8	24.4
Sound of Barra 2018	S6_V2_18.07	10/06/2018	11:51:10	11:53:28	57.002338	-7.316967	57.002243	-7.316305	24.4	25.3
Sound of Barra 2018	S6_V2_18.08	10/06/2018	11:53:28	11:54:03	57.002243	-7.316305	57.002227	-7.316088	25.3	24.4
Sound of Barra 2018	S6_V2_18.09	10/06/2018	11:54:03	11:57:20	57.002227	-7.316088	57.002230	-7.315230	24.4	26.2
Sound of Barra 2018	S6_V3_18	10/06/2018	12:05:58	12:19:27	57.002252	-7.320628	57.000435	-7.318252	27.6	25.6
Sound of Barra 2018	S6_V4_18.01	10/06/2018	12:28:46	12:34:29	57.001112	-7.320780	57.000572	-7.319292	28.0	27.6
Sound of Barra 2018	S6_V4_18.02	10/06/2018	12:34:29	12:34:51	57.000572	-7.319292	57.000542	-7.319243	27.6	27.7
Sound of Barra 2018	S6_V4_18.03	10/06/2018	12:34:51	12:35:30	57.000542	-7.319243	57.000433	-7.319260	27.7	28.0
Sound of Barra 2018	S6_V4_18.04	10/06/2018	12:35:30	12:35:37	57.000433	-7.319260	57.000427	-7.319230	28.0	28.0
Sound of Barra 2018	S6_V4_18.05	10/06/2018	12:35:37	12:37:44	57.000427	-7.319230	57.000100	-7.318937	28.0	28.3
Sound of Barra 2018	S8_V1_18.01	10/06/2018	14:47:29	14:54:50	56.958912	-7.392048	56.959678	-7.390623	26.5	26.3
Sound of Barra 2018	S8_V1_18.02	10/06/2018	14:54:50	14:55:17	56.959678	-7.390623	56.959762	-7.390587	26.3	26.4
Sound of Barra 2018	S8_V2_18.01	11/06/2018	09:20:19	09:30:01	56.963300	-7.389635	56.961805	-7.389120	28.6	28.1
Sound of Barra 2018	S8_V2_18.02	11/06/2018	09:30:01	09:47:26	56.961805	-7.389120	56.958600	-7.388928	28.1	26.1
Sound of Barra 2018	S8_V2_18.03	11/06/2018	09:47:26	09:52:59	56.958600	-7.388928	56.957662	-7.388797	26.1	26.6
Sound of Barra 2018	S8_V2_18.04	11/06/2018	09:52:59	09:55:10	56.957662	-7.388797	56.957662	-7.388797	26.6	23.9
Sound of Barra 2018	S8_V3_18.01	11/06/2018	11:11:30	11:13:39	56.962492	-7.387473	56.962315	-7.386888	27.5	27.5

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Sound of Barra 2018	S8_V3_18.02	11/06/2018	11:13:39	11:14:34	56.962315	-7.386888	56.962257	-7.386620	27.5	27.3
Sound of Barra 2018	S8_V3_18.03	11/06/2018	11:14:34	11:17:34	56.962257	-7.386620	56.962078	-7.385642	27.3	27.1
Sound of Barra 2018	S8_V3_18.04	11/06/2018	11:17:34	11:17:59	56.962078	-7.385642	56.962057	-7.385517	27.1	27.1
Sound of Barra 2018	S8_V3_18.05	11/06/2018	11:17:59	11:38:08	56.962057	-7.385517	56.960113	-7.380715	27.1	25.0
Sound of Barra 2018	S8_V3_18.06	11/06/2018	11:38:08	11:38:22	56.960113	-7.380715	56.960093	-7.380640	25.0	25.2
Sound of Barra 2018	S8_V3_18.07	11/06/2018	11:38:22	11:39:20	56.960093	-7.380640	56.960002	-7.380287	25.2	25.4
Sound of Barra 2018	S8_V3_18.08	11/06/2018	11:39:20	11:39:23	56.960002	-7.380287	56.959998	-7.380272	25.4	25.3
Sound of Barra 2018	S8_V3_18.09	11/06/2018	11:39:23	11:39:34	56.959998	-7.380272	56.959982	-7.380197	25.3	25.1
Sound of Barra 2018	S8_V3_18.10	11/06/2018	11:39:34	11:40:03	56.959982	-7.380197	56.959945	-7.380038	25.1	23.2
Sound of Barra 2018	S8_V3_18.11	11/06/2018	11:40:03	11:40:51	56.959945	-7.380038	56.959875	-7.379722	23.2	22.8
Sound of Barra 2018	S8_V3_18.12	11/06/2018	11:40:51	11:41:05	56.959875	-7.379722	56.959853	-7.379627	22.8	22.9
Sound of Barra 2018	S8_V3_18.13	11/06/2018	11:41:05	11:41:14	56.959853	-7.379627	56.959842	-7.379578	22.9	22.7
Sound of Barra 2018	S8_V3_18.14	11/06/2018	11:41:14	11:41:33	56.959842	-7.379578	56.959817	-7.379473	22.7	22.8
Sound of Barra 2018	S8_V4_18.01	11/06/2018	10:04:59	10:07:33	56.962157	-7.384687	56.961842	-7.384300	26.6	26.2
Sound of Barra 2018	S8_V4_18.02	11/06/2018	10:07:33	10:09:11	56.961842	-7.384300	56.961672	-7.383988	26.2	25.8
Sound of Barra 2018	S8_V4_18.03	11/06/2018	10:09:11	10:09:29	56.961672	-7.383988	56.961638	-7.383930	25.8	25.8
Sound of Barra 2018	S8_V4_18.04	11/06/2018	10:09:29	10:10:25	56.961638	-7.383930	56.961558	-7.383760	25.8	25.8
Sound of Barra 2018	S8_V4_18.05	11/06/2018	10:10:25	10:10:43	56.961558	-7.383760	56.961527	-7.383697	25.8	25.7
Sound of Barra 2018	S8_V4_18.06	11/06/2018	10:10:43	10:11:38	56.961527	-7.383697	56.961423	-7.383483	25.7	25.6
Sound of Barra 2018	S8_V4_18.07	11/06/2018	10:11:38	10:22:54	56.961423	-7.383483	56.959847	-7.383205	25.6	26.0
Sound of Barra 2018	S8_V4_18.08	11/06/2018	10:22:54	10:23:48	56.959847	-7.383205	56.959800	-7.383322	26.0	26.3
Sound of Barra 2018	S8_V4_18.09	11/06/2018	10:23:48	10:28:19	56.959800	-7.383322	56.959302	-7.383058	26.3	26.8
Sound of Barra 2018	S9_V1_18.01	11/06/2018	06:42:04	07:04:42	56.936392	-7.425768	56.932432	-7.422158	25.6	28.0
Sound of Barra 2018	S9_V1_18.02	11/06/2018	07:04:42	07:07:05	56.932432	-7.422158	56.931972	-7.421800	28.0	27.7
Sound of Barra 2018	S9_V2_18.01	11/06/2018	07:16:01	07:16:39	56.936003	-7.424402	56.935783	-7.424438	26.7	26.7
Sound of Barra 2018	S9_V2_18.02	11/06/2018	07:16:39	07:30:43	56.935783	-7.424438	56.932882	-7.424493	26.7	26.0
Sound of Barra 2018	S9_V2_18.03	11/06/2018	07:30:43	07:30:57	56.932882	-7.424493	56.932843	-7.424483	26.0	25.9
Sound of Barra 2018	S9_V2_18.04	11/06/2018	07:30:57	07:36:57	56.932843	-7.424483	56.931822	-7.424328	25.9	27.1
Sound of Barra 2018	S9_V3_18.01	11/06/2018	07:46:41	07:47:37	56.935068	-7.420262	56.934877	-7.420335	28.8	29.4
Sound of Barra 2018	S9_V3_18.02	11/06/2018	07:47:37	07:48:42	56.934877	-7.420335	56.934658	-7.420430	29.4	28.3

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Sound of Barra 2018	S9_V3_18.03	11/06/2018	07:48:42	07:50:52	56.934658	-7.420430	56.934180	-7.420618	28.3	29.2
Sound of Barra 2018	S9_V3_18.04	11/06/2018	07:50:52	07:58:40	56.934180	-7.420618	56.932577	-7.421062	29.2	28.4
Sound of Barra 2018	S9_V3_18.05	11/06/2018	07:58:40	08:04:19	56.932577	-7.421062	56.931557	-7.421302	28.4	27.7
Sound of Barra 2018	S9_V3_18.06	11/06/2018	08:04:19	08:05:24	56.931557	-7.421302	56.931363	-7.421350	27.7	28.0
Sound of Barra 2018	S9_V3_18.07	11/06/2018	08:05:24	08:10:06	56.931363	-7.421350	56.930503	-7.421522	28.0	28.0
Sound of Barra 2018	S9_V4_18.01	11/06/2018	08:21:09	08:21:35	56.933947	-7.418135	56.933880	-7.418205	31.7	31.8
Sound of Barra 2018	S9_V4_18.02	11/06/2018	08:21:35	08:26:31	56.933880	-7.418205	56.933087	-7.418767	31.8	31.6
Sound of Barra 2018	S9_V4_18.03	11/06/2018	08:26:31	08:27:05	56.933087	-7.418767	56.933045	-7.418887	31.6	31.5
Sound of Barra 2018	S9_V4_18.04	11/06/2018	08:27:05	08:31:06	56.933045	-7.418887	56.932353	-7.419322	31.5	24.9
Sound of Barra 2018	S9_V4_18.05	11/06/2018	08:31:06	08:32:59	56.932353	-7.419322	56.932028	-7.419542	24.9	28.4
Sound of Barra 2018	S9_V4_18.06	11/06/2018	08:32:59	08:37:48	56.932028	-7.419542	56.931305	-7.420060	28.4	27.7
Sound of Barra 2018	S9_V4_18.07	11/06/2018	08:37:48	08:38:49	56.931305	-7.420060	56.931162	-7.420162	27.7	27.8
Sound of Barra 2018	S9_V4_18.08	11/06/2018	08:38:49	08:40:07	56.931162	-7.420162	56.930967	-7.420260	27.8	27.8
Sound of Barra 2018	S10_V1_18	11/06/2018	13:32:59	13:54:37	56.908960	-7.488822	56.906767	-7.480713	24.6	23.8
Sound of Barra 2018	S10_V2_18.01	11/06/2018	14:03:40	14:09:15	56.911800	-7.485762	56.911315	-7.484652	22.0	22.5
Sound of Barra 2018	S10_V2_18.02	11/06/2018	14:09:15	14:16:54	56.911315	-7.484652	56.910708	-7.483525	22.5	23.0
Sound of Barra 2018	S10_V2_18.03	11/06/2018	14:16:54	14:17:16	56.910708	-7.483525	56.910680	-7.483443	23.0	23.0
Sound of Barra 2018	S10_V2_18.04	11/06/2018	14:17:16	14:40:09	56.910680	-7.483443	56.908595	-7.478363	23.0	21.5
Sound of Barra 2018	S10_V3_18	11/06/2018	14:50:35	15:09:07	56.906828	-7.490517	56.905220	-7.482460	25.5	24.9
Sound of Barra 2018	S10_V4_18	11/06/2018	15:18:01	15:27:16	56.905130	-7.490048	56.903848	-7.487203	26.4	26.4
Sound of Barra 2018	S11_V1_18	08/06/2018	16:22:55	16:27:13	57.133335	-7.218798	57.133212	-7.217893	34.5	36.4
Sound of Barra 2018	S11_V2_18.01	08/06/2018	16:37:29	16:38:36	57.132022	-7.222387	57.131980	-7.222215	34.7	34.5
Sound of Barra 2018	S11_V2_18.02	08/06/2018	16:38:36	16:42:43	57.131980	-7.222215	57.131857	-7.221512	34.5	33.7
Sound of Barra 2018	S11_V2_18.03	08/06/2018	16:42:43	16:44:49	57.131857	-7.221512	57.131802	-7.221115	33.7	29.0
Sound of Barra 2018	S11_V2_18.04	08/06/2018	16:44:49	16:45:33	57.131802	-7.221115	57.131783	-7.220972	29.0	28.7
Sound of Barra 2018	S11_V2_18.05	08/06/2018	16:45:33	16:45:38	57.131783	-7.220972	57.131782	-7.220965	28.7	29.3
Sound of Barra 2018	S11_V2_18.06	08/06/2018	16:45:38	16:47:11	57.131782	-7.220965	57.131745	-7.220647	29.3	27.5
Sound of Barra 2018	S11_V2_18.07	08/06/2018	16:47:11	16:47:18	57.131745	-7.220647	57.131742	-7.220620	27.5	26.9
Sound of Barra 2018	S11_V2_18.08	08/06/2018	16:47:18	16:47:53	57.131742	-7.220620	57.131720	-7.220488	26.9	25.0
Sound of Barra 2018	S11_V2_18.09	08/06/2018	16:47:53	16:48:12	57.131720	-7.220488	57.131705	-7.220405	25.0	24.3

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Sound of Barra 2018	S11_V2_18.10	08/06/2018	16:48:12	16:49:09	57.131705	-7.220405	57.131668	-7.220183	24.3	24.9
Sound of Barra 2018	S11_V2_18.11	08/06/2018	16:49:09	16:53:23	57.131668	-7.220183	57.131392	-7.219143	24.9	25.5
Sound of Barra 2018	S11_V2_18.12	08/06/2018	16:53:23	16:53:55	57.131392	-7.219143	57.131358	-7.219033	25.5	26.2
Sound of Barra 2018	S11_V2_18.13	08/06/2018	16:53:55	16:54:54	57.131358	-7.219033	57.131298	-7.218868	26.2	27.2
Sound of Barra 2018	S11_V3_18.01	08/06/2018	17:03:26	17:06:33	57.133953	-7.222323	57.133863	-7.221720	23.2	23.1
Sound of Barra 2018	S11_V3_18.02	08/06/2018	17:06:33	17:07:13	57.133863	-7.221720	57.133833	-7.221622	23.1	25.0
Sound of Barra 2018	S11_V3_18.03	08/06/2018	17:07:13	17:09:24	57.133833	-7.221622	57.133705	-7.221252	25.0	31.7
Sound of Barra 2018	S11_V3_18.04	08/06/2018	17:09:24	17:11:28	57.133705	-7.221252	57.133613	-7.220852	31.7	34.6
Sound of Barra 2018	S11_V3_18.05	08/06/2018	17:11:28	17:11:58	57.133613	-7.220852	57.133595	-7.220753	34.6	34.8
Sound of Barra 2018	S11_V3_18.06	08/06/2018	17:11:58	17:12:22	57.133595	-7.220753	57.133577	-7.220662	34.8	35.0
Sound of Barra 2018	S11_V3_18.07	08/06/2018	17:12:22	17:26:18	57.133577	-7.220662	57.133175	-7.217470	35.0	39.5
Sound of Barra 2018	S11_V4_18.01	09/06/2018	06:24:45	06:25:01	57.137235	-7.222708	57.137217	-7.222673	38.9	38.9
Sound of Barra 2018	S11_V4_18.02	09/06/2018	06:25:01	06:28:58	57.137217	-7.222673	57.136935	-7.222258	38.9	36.2
Sound of Barra 2018	S11_V4_18.03	09/06/2018	06:28:58	06:29:21	57.136935	-7.222258	57.136895	-7.222208	36.2	34.7
Sound of Barra 2018	S11_V4_18.04	09/06/2018	06:29:21	06:30:18	57.136895	-7.222208	57.136840	-7.222145	34.7	32.2
Sound of Barra 2018	S11_V4_18.05	09/06/2018	06:30:18	06:36:27	57.136840	-7.222145	57.136380	-7.221727	32.2	36.4
Sound of Barra 2018	S11_V4_18.06	09/06/2018	06:36:27	06:45:25	57.136380	-7.221727	57.135808	-7.221423	36.4	35.1
Sound of Barra 2018	S11_V4_18.07	09/06/2018	06:45:25	06:45:51	57.135808	-7.221423	57.135778	-7.221415	35.1	34.3
Sound of Barra 2018	S11_V4_18.08	09/06/2018	06:45:51	06:53:15	57.135778	-7.221415	57.135290	-7.221322	34.3	33.8
Sound of Barra 2018	S11_V4_18.09	09/06/2018	06:53:15	06:53:37	57.135290	-7.221322	57.135257	-7.221312	33.8	33.8
Sound of Barra 2018	S11_V4_18.10	09/06/2018	06:53:37	06:55:40	57.135257	-7.221312	57.135085	-7.221288	33.8	32.6
Sound of Mull 2019	SoM_01.01	09/05/2019	16:15:39	16:18:40	56.653107	-6.018783	56.652473	-6.018140	31.7	28.9
Sound of Mull 2019	SoM_01.02	09/05/2019	16:18:40	16:19:29	56.652473	-6.018140	56.652292	-6.017947	28.9	27.2
Sound of Mull 2019	SoM_01.03	09/05/2019	16:19:29	16:21:48	56.652292	-6.017947	56.651800	-6.017767	27.2	31.4
Sound of Mull 2019	SoM_01.04	09/05/2019	16:21:48	16:24:32	56.651800	-6.017767	56.651208	-6.017377	31.4	34.7
Sound of Mull 2019	SoM_02.01	09/05/2019	16:43:01	16:46:46	56.663118	-6.031238	56.663100	-6.032730	41.4	30.4
Sound of Mull 2019	SoM_02.02	09/05/2019	16:46:46	16:51:43	56.663100	-6.032730	56.662962	-6.034743	30.4	25.9
Sound of Mull 2019	SoM_03.01	10/05/2019	06:33:47	06:36:07	56.659543	-6.051030	56.659567	-6.051492	35.3	36.1
Sound of Mull 2019	SoM_03.02	10/05/2019	06:36:07	06:43:18	56.659567	-6.051492	56.659535	-6.053738	36.1	36.0
Sound of Mull 2019	SoM_04.01	10/05/2019	06:56:58	06:57:21	56.662377	-6.040727	56.662388	-6.040773	30.2	30.1

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Sound of Mull 2019	SoM_04.02	10/05/2019	06:57:21	07:00:18	56.662388	-6.040773	56.662270	-6.041867	30.1	30.7
Sound of Mull 2019	SoM_04.03	10/05/2019	07:00:18	07:05:56	56.662270	-6.041867	56.661905	-6.044308	30.7	34.4
Sound of Mull 2019	SoM_05.01	10/05/2019	07:24:35	07:26:41	56.649573	-6.031092	56.649422	-6.031712	24.1	24.5
Sound of Mull 2019	SoM_05.02	10/05/2019	07:26:41	07:29:06	56.649422	-6.031712	56.649103	-6.032365	24.5	28.3
Sound of Mull 2019	SoM_05.03	10/05/2019	07:29:06	07:32:09	56.649103	-6.032365	56.648740	-6.033440	28.3	20.3
Sound of Mull 2019	SoM_05.04	10/05/2019	07:32:09	07:34:01	56.648740	-6.033440	56.648510	-6.034023	20.3	21.1
Sound of Mull 2019	SoM_06.01	10/05/2019	07:45:13	07:53:50	56.646397	-6.019552	56.645022	-6.018612	28.0	38.1
Sound of Mull 2019	SoM_06.02	10/05/2019	07:53:50	07:54:48	56.645022	-6.018612	56.644835	-6.018665	38.1	41.9
Sound of Mull 2019	SoM_07.01	10/05/2019	08:04:55	08:09:21	56.640310	-6.015657	56.639522	-6.015260	42.9	40.3
Sound of Mull 2019	SoM_07.02	10/05/2019	08:09:21	08:12:19	56.639522	-6.015260	56.639027	-6.014747	40.3	48.9
Sound of Mull 2019	SoM_07.03	10/05/2019	08:12:19	08:13:46	56.639027	-6.014747	56.638793	-6.014397	48.9	56.2
Sound of Mull 2019	SoM_08.01	10/05/2019	08:37:39	08:38:50	56.613325	-6.013373	56.613398	-6.013685	89.0	91.7
Sound of Mull 2019	SoM_08.02	10/05/2019	08:38:50	08:39:26	56.613398	-6.013685	56.613422	-6.013808	91.7	93.0
Sound of Mull 2019	SoM_08.03	10/05/2019	08:39:26	08:40:14	56.613422	-6.013808	56.613432	-6.014000	93.0	95.1
Sound of Mull 2019	SoM_08.04	10/05/2019	08:40:14	08:41:16	56.613432	-6.014000	56.613443	-6.014388	95.1	97.0
Sound of Mull 2019	SoM_08.05	10/05/2019	08:41:16	08:46:44	56.613443	-6.014388	56.613438	-6.016832	97.0	84.6
Sound of Mull 2019	SoM_09	10/05/2019	09:12:05	09:21:13	56.587007	-5.983182	56.585607	-5.981132	87.8	93.1
Sound of Mull 2019	SoM_10	10/05/2019	09:56:37	10:05:37	56.542560	-5.904990	56.541008	-5.903575	93.0	87.4
Sound of Mull 2019	SoM_11.01	10/05/2019	10:17:22	10:24:01	56.543102	-5.887037	56.542048	-5.885725	29.6	29.8
Sound of Mull 2019	SoM_11.02	10/05/2019	10:24:01	10:25:25	56.542048	-5.885725	56.541762	-5.885700	29.8	30.7
Sound of Mull 2019	SoM_11.03	10/05/2019	10:25:25	10:26:40	56.541762	-5.885700	56.541520	-5.885662	30.7	34.0
Loch Sunart 2019	LS_01.01	09/05/2019	08:06:57	08:13:42	56.667740	-5.897303	56.668163	-5.895595	38.1	41.8
Loch Sunart 2019	LS_01.02	09/05/2019	08:13:42	08:16:01	56.668163	-5.895595	56.668158	-5.895000	41.8	42.6
Loch Sunart 2019	LS_02.01	09/05/2019	08:24:52	08:26:45	56.668763	-5.895102	56.669028	-5.895197	35.8	31.3
Loch Sunart 2019	LS_02.02	09/05/2019	08:26:45	08:31:29	56.669028	-5.895197	56.669928	-5.894447	31.3	35.1
Loch Sunart 2019	LS_02.03	09/05/2019	08:31:29	08:47:00	56.669928	-5.894447	56.671355	-5.890423	35.1	49.5
Loch Sunart 2019	LS_02.04	09/05/2019	08:47:00	08:50:27	56.671355	-5.890423	56.671613	-5.889313	49.5	54.3
Loch Sunart 2019	LS_02.05	09/05/2019	08:50:27	09:05:38	56.671613	-5.889313	56.671935	-5.884272	54.3	36.2
Loch Sunart 2019	LS_02.06	09/05/2019	09:05:38	09:09:03	56.671935	-5.884272	56.672172	-5.883155	36.2	47.9
Loch Sunart 2019	LS_02.07	09/05/2019	09:09:03	09:09:44	56.672172	-5.883155	56.672235	-5.882957	47.9	49.2

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Loch Sunart 2019	LS_02.08	09/05/2019	09:09:44	09:16:55	56.672235	-5.882957	56.672607	-5.880502	49.2	52.7
Loch Sunart 2019	LS_03.01	09/05/2019	09:34:38	09:37:56	56.674498	-5.872598	56.674812	-5.871575	67.9	71.0
Loch Sunart 2019	LS_03.02	09/05/2019	09:37:56	09:38:26	56.674812	-5.871575	56.674818	-5.871382	71.0	73.5
Loch Sunart 2019	LS_03.03	09/05/2019	09:38:26	09:38:43	56.674818	-5.871382	56.674820	-5.871263	73.5	75.2
Loch Sunart 2019	LS_03.04	09/05/2019	09:38:43	09:38:48	56.674820	-5.871263	56.674828	-5.871237	75.2	75.6
Loch Sunart 2019	LS_03.05	09/05/2019	09:38:48	09:42:35	56.674828	-5.871237	56.675137	-5.870098	75.6	89.4
Loch Sunart 2019	LS_04.01	09/05/2019	09:54:46	09:58:48	56.673565	-5.875723	56.673532	-5.876702	73.2	70.0
Loch Sunart 2019	LS_04.02	09/05/2019	09:58:48	09:59:20	56.673532	-5.876702	56.673538	-5.876867	70.0	69.6
Loch Sunart 2019	LS_04.03	09/05/2019	09:59:20	10:03:40	56.673538	-5.876867	56.673445	-5.878397	69.6	65.3
Loch Sunart 2019	LS_05.01	09/05/2019	10:17:42	10:18:44	56.673030	-5.883700	56.673133	-5.883995	54.6	52.4
Loch Sunart 2019	LS_05.02	09/05/2019	10:18:44	10:20:03	56.673133	-5.883995	56.673273	-5.884308	52.4	37.2
Loch Sunart 2019	LS_05.03	09/05/2019	10:20:03	10:21:26	56.673273	-5.884308	56.673330	-5.884705	37.2	36.6
Loch Sunart 2019	LS_05.04	09/05/2019	10:21:26	10:22:20	56.673330	-5.884705	56.673335	-5.885052	36.6	35.1
Loch Sunart 2019	LS_05.05	09/05/2019	10:22:20	10:23:29	56.673335	-5.885052	56.673315	-5.885543	35.1	33.9
Loch Sunart 2019	LS_05.06	09/05/2019	10:23:29	10:27:32	56.673315	-5.885543	56.673142	-5.887490	33.9	26.6
Loch Sunart 2019	LS_06.01	09/05/2019	11:05:57	11:06:24	56.670360	-5.887272	56.670285	-5.887373	29.4	29.0
Loch Sunart 2019	LS_06.02	09/05/2019	11:06:24	11:06:46	56.670285	-5.887373	56.670252	-5.887465	29.0	27.5
Loch Sunart 2019	LS_06.03	09/05/2019	11:06:46	11:07:19	56.670252	-5.887465	56.670173	-5.887605	27.5	28.6
Loch Sunart 2019	LS_06.04	09/05/2019	11:07:19	11:08:32	56.670173	-5.887605	56.669985	-5.887942	28.6	29.5
Loch Sunart 2019	LS_06.05	09/05/2019	11:08:32	11:25:21	56.669985	-5.887942	56.666848	-5.892522	29.5	32.3
Loch Sunart 2019	LS_06.06	09/05/2019	11:25:21	11:26:39	56.666848	-5.892522	56.666645	-5.893023	32.3	33.1
Loch Sunart 2019	LS_07.01	09/05/2019	11:37:01	11:39:18	56.666290	-5.899100	56.665872	-5.899998	38.2	35.0
Loch Sunart 2019	LS_07.02	09/05/2019	11:39:18	11:40:00	56.665872	-5.899998	56.665747	-5.900298	35.0	36.4
Loch Sunart 2019	LS_07.03	09/05/2019	11:40:00	11:43:43	56.665747	-5.900298	56.665102	-5.901793	36.4	60.0
Loch Sunart 2019	LS_07.04	09/05/2019	11:43:43	11:46:24	56.665102	-5.901793	56.664705	-5.902953	60.0	63.0
Loch Sunart 2019	LS_08	09/05/2019	11:59:44	12:10:14	56.664185	-5.896867	56.662900	-5.899518	31.0	43.3
Loch Sunart 2019	LS_09	09/05/2019	12:18:32	12:26:19	56.661705	-5.904047	56.661585	-5.905948	26.9	24.7
Loch Sunart 2019	LS_10.01	09/05/2019	12:40:15	12:44:59	56.665912	-5.905353	56.665383	-5.906993	64.5	70.4
Loch Sunart 2019	LS_10.02	09/05/2019	12:44:59	12:49:16	56.665383	-5.906993	56.664830	-5.908187	70.4	62.2
Loch Sunart 2019	LS_11.01	09/05/2019	13:00:52	13:01:20	56.668122	-5.909457	56.668048	-5.909615	42.6	46.5

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Loch Sunart 2019	LS_11.02	09/05/2019	13:01:20	13:02:04	56.668048	-5.909615	56.667875	-5.910033	46.5	48.5
Loch Sunart 2019	LS_11.03	09/05/2019	13:02:04	13:02:34	56.667875	-5.910033	56.667773	-5.910242	48.5	49.5
Loch Sunart 2019	LS_11.04	09/05/2019	13:02:34	13:02:39	56.667773	-5.910242	56.667768	-5.910268	49.5	49.6
Loch Sunart 2019	LS_11.05	09/05/2019	13:02:39	13:05:11	56.667768	-5.910268	56.667530	-5.910925	49.6	58.0
Loch Sunart 2019	LS_11.06	09/05/2019	13:05:11	13:06:05	56.667530	-5.910925	56.667417	-5.911233	58.0	61.4
Loch Sunart 2019	LS_11.07	09/05/2019	13:06:05	13:08:56	56.667417	-5.911233	56.667093	-5.912355	61.4	63.3
Loch Sunart 2019	LS_11.08	09/05/2019	13:08:29	13:08:56	56.667127	-5.912132	56.667093	-5.912355	63.3	63.2
Loch Sunart 2019	LS_12.01	09/05/2019	13:20:31	13:24:44	56.669527	-5.911240	56.669165	-5.912620	60.2	43.2
Loch Sunart 2019	LS_12.02	09/05/2019	13:24:44	13:24:58	56.669165	-5.912620	56.669157	-5.912702	43.2	46.3
Loch Sunart 2019	LS_12.03	09/05/2019	13:24:58	13:25:21	56.669157	-5.912702	56.669128	-5.912852	46.3	47.0
Loch Sunart 2019	LS_12.04	09/05/2019	13:25:21	13:26:45	56.669128	-5.912852	56.669085	-5.913293	47.0	41.3
Loch Sunart 2019	LS_12.05	09/05/2019	13:26:45	13:27:27	56.669085	-5.913293	56.669007	-5.913532	41.3	43.1
Loch Sunart 2019	LS_12.06	09/05/2019	13:27:27	13:30:02	56.669007	-5.913532	56.668730	-5.914488	43.1	53.6
Loch Sunart 2019	LS_13.01	09/05/2019	13:39:53	13:42:05	56.668152	-5.914052	56.668092	-5.914655	57.5	57.7
Loch Sunart 2019	LS_13.02	09/05/2019	13:42:05	13:49:05	56.668092	-5.914655	56.668053	-5.917225	57.7	56.0
Loch Sunart 2019	LS_14.01	09/05/2019	07:15:58	07:16:16	56.674525	-5.937795	56.674508	-5.937873	71.2	71.7
Loch Sunart 2019	LS_14.02	09/05/2019	07:16:16	07:17:21	56.674508	-5.937873	56.674375	-5.938102	71.7	71.4
Loch Sunart 2019	LS_14.03	09/05/2019	07:17:21	07:18:12	56.674375	-5.938102	56.674292	-5.938367	71.4	71.2
Loch Sunart 2019	LS_14.04	09/05/2019	07:18:12	07:20:19	56.674292	-5.938367	56.674075	-5.938808	71.2	73.4
Loch Sunart 2019	LS_14.05	09/05/2019	07:20:19	07:24:43	56.674075	-5.938808	56.673477	-5.940055	73.4	69.8
Loch Sunart 2019	LS_14.06	09/05/2019	07:24:43	07:25:15	56.673477	-5.940055	56.673402	-5.940222	69.8	70.1
Loch Sunart 2019	LS_15	09/05/2019	07:37:23	07:46:38	56.676655	-5.933285	56.675753	-5.936013	52.4	88.8
Loch Sunart 2019	LS_16.01	09/05/2019	13:58:16	13:59:24	56.669618	-5.916082	56.669612	-5.916510	47.3	45.1
Loch Sunart 2019	LS_16.02	09/05/2019	13:59:24	13:59:46	56.669612	-5.916510	56.669600	-5.916630	45.1	45.0
Loch Sunart 2019	LS_16.03	09/05/2019	13:59:46	14:01:40	56.669600	-5.916630	56.669582	-5.917163	45.0	50.5
Loch Sunart 2019	LS_16.04	09/05/2019	14:01:40	14:02:11	56.669582	-5.917163	56.669583	-5.917348	50.5	51.2
Loch Sunart 2019	LS_16.05	09/05/2019	14:02:11	14:05:05	56.669583	-5.917348	56.669345	-5.918308	51.2	45.6
Loch Sunart 2019	LS_16.06	09/05/2019	14:05:05	14:06:16	56.669345	-5.918308	56.669140	-5.918627	45.6	39.9
Loch Sunart 2019	LS_16.07	09/05/2019	14:06:16	14:06:51	56.669140	-5.918627	56.669035	-5.918805	39.9	36.8
Loch Sunart 2019	LS_17	09/05/2019	14:16:56	14:26:34	56.670715	-5.919157	56.670515	-5.921598	30.6	44.3

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Loch Sunart 2019	LS_18.01	09/05/2019	14:36:33	14:40:13	56.673080	-5.917505	56.672835	-5.918847	81.6	85.3
Loch Sunart 2019	LS_18.02	09/05/2019	14:40:13	14:45:38	56.672835	-5.918847	56.672617	-5.920910	85.3	83.5
Loch Sunart 2019	LS_19.01	09/05/2019	14:53:58	14:58:41	56.672323	-5.922807	56.672150	-5.924067	81.2	69.5
Loch Sunart 2019	LS_19.02	09/05/2019	14:58:41	15:03:11	56.672150	-5.924067	56.672070	-5.925542	69.5	53.3
Loch Sunart 2019	LS_20.01	09/05/2019	15:11:17	15:12:43	56.672912	-5.927392	56.672998	-5.928197	64.0	58.6
Loch Sunart 2019	LS_20.02	09/05/2019	15:12:43	15:14:03	56.672998	-5.928197	56.673005	-5.928637	58.6	56.3
Loch Sunart 2019	LS_20.03	09/05/2019	15:14:03	15:14:32	56.673005	-5.928637	56.673002	-5.928762	56.3	58.5
Loch Sunart 2019	LS_20.04	09/05/2019	15:14:32	15:15:41	56.673002	-5.928762	56.673063	-5.929165	58.5	57.1
Loch Sunart 2019	LS_20.05	09/05/2019	15:15:41	15:16:05	56.673063	-5.929165	56.673075	-5.929333	57.1	56.8
Loch Sunart 2019	LS_20.06	09/05/2019	15:16:05	15:16:40	56.673075	-5.929333	56.673110	-5.929608	56.8	62.6
Loch Sunart 2019	LS_20.07	09/05/2019	15:16:40	15:17:50	56.673110	-5.929608	56.673188	-5.930180	62.6	72.2
Loch Sunart 2019	LS_20.08	09/05/2019	15:17:50	15:17:59	56.673188	-5.930180	56.673187	-5.930257	72.2	73.5
Loch Sunart 2019	LS_20.09	09/05/2019	15:17:59	15:20:01	56.673187	-5.930257	56.673253	-5.930997	73.5	85.4
Loch Sunart 2019	LS_20.10	09/05/2019	15:20:01	15:23:27	56.673253	-5.930997	56.673377	-5.932210	85.4	74.9
Loch Sunart 2019	LS_20.11	09/05/2019	15:23:27	15:25:03	56.673377	-5.932210	56.673517	-5.932763	74.9	80.4
Loch Sunart 2019	LS_20.12	09/05/2019	15:25:03	15:25:24	56.673517	-5.932763	56.673548	-5.932900	80.4	82.2
Loch Sunart 2019	LS_20.13	09/05/2019	15:25:24	15:26:00	56.673548	-5.932900	56.673602	-5.933162	82.2	84.0
Small Isles 2019	FMA01_01.01	06/05/2019	11:14:12	11:14:28	56.823717	-6.175357	56.823712	-6.175498	101.5	
Small Isles 2019	FMA01_01.02	06/05/2019	11:14:28	11:22:59	56.823712	-6.175498	56.822368	-6.178658		127.6
Small Isles 2019	FMA01_02	04/05/2019	11:31:17	11:40:46	56.800803	-6.142740	56.799827	-6.145368	115.7	113.9
Small Isles 2019	FMA01_03.01	04/05/2019	13:58:19	14:03:04	56.815085	-6.161258	56.815008	-6.162522	57.8	50.9
Small Isles 2019	FMA01_03.02	04/05/2019	14:03:04	14:04:58	56.815008	-6.162522	56.814762	-6.163282	50.9	50.2
Small Isles 2019	FMA01_03.03	04/05/2019	14:04:58	14:08:41	56.814762	-6.163282	56.814403	-6.164630	50.2	41.8
Small Isles 2019	FMA01_04.01	04/05/2019	13:05:36	13:05:54	56.809648	-6.163208	56.809583	-6.163252	95.3	95.0
Small Isles 2019	FMA01_04.02	04/05/2019	13:05:54	13:06:13	56.809583	-6.163252	56.809552	-6.163272	95.0	94.8
Small Isles 2019	FMA01_04.03	04/05/2019	13:06:13	13:07:51	56.809552	-6.163272	56.809333	-6.163408	94.8	96.1
Small Isles 2019	FMA01_04.04	04/05/2019	13:07:51	13:15:11	56.809333	-6.163408	56.808278	-6.163947	96.1	102.9
Small Isles 2019	FMA01_05	08/05/2019	09:20:06	09:29:35	56.800952	-6.162813	56.799853	-6.164635	148.4	161.9
Small Isles 2019	FMA01_06.01	04/05/2019	12:42:11	12:46:46	56.804107	-6.148950	56.803572	-6.150058	115.2	108.5
Small Isles 2019	FMA01_06.02	04/05/2019	12:46:46	12:50:08	56.803572	-6.150058	56.803217	-6.151155	108.5	98.1

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Small Isles 2019	FMA01_06.03	04/05/2019	12:50:08	12:52:30	56.803217	-6.151155	56.802868	-6.151648	98.1	101.2
Small Isles 2019	FMA01_07.01	08/05/2019	08:50:05	08:50:49	56.800017	-6.172295	56.800048	-6.172478	196.8	
Small Isles 2019	FMA01_07.02	08/05/2019	08:50:49	08:52:20	56.800048	-6.172478	56.800170	-6.172870		
Small Isles 2019	FMA01_07.03	08/05/2019	08:52:20	08:54:45	56.800170	-6.172870	56.800355	-6.173515		
Small Isles 2019	FMA01_07.04	08/05/2019	08:54:45	08:55:29	56.800355	-6.173515	56.800385	-6.173743		
Small Isles 2019	FMA01_07.05	08/05/2019	08:55:29	08:59:45	56.800385	-6.173743	56.800562	-6.175038		214.8
Small Isles 2019	FMA01_08	06/05/2019	12:51:06	13:00:07	56.809063	-6.184497	56.807353	-6.185170	170.4	179.5
Small Isles 2019	FMA01_09.01	06/05/2019	11:36:34	11:39:41	56.821403	-6.192445	56.820838	-6.192847	112.8	
Small Isles 2019	FMA01_09.02	06/05/2019	11:39:41	11:43:13	56.820838	-6.192847	56.820195	-6.193252		
Small Isles 2019	FMA01_09.03	06/05/2019	11:43:13	11:44:30	56.820195	-6.193252	56.819958	-6.193388		78.7
Small Isles 2019	FMA01_10	06/05/2019	11:57:47	12:07:49	56.814942	-6.193357	56.812847	-6.194882	155.1	101.2
Small Isles 2019	FMA01_11.01	06/05/2019	12:28:46	12:30:59	56.816998	-6.184350	56.816613	-6.184745	127.3	
Small Isles 2019	FMA01_11.02	06/05/2019	12:30:59	12:33:42	56.816613	-6.184745	56.816138	-6.185288		
Small Isles 2019	FMA01_11.03	06/05/2019	12:33:42	12:34:15	56.816138	-6.185288	56.816037	-6.185413		137.4
Small Isles 2019	FMA01_12	04/05/2019	13:28:20	13:38:06	56.809670	-6.173972	56.808475	-6.176248	142.1	157.6
Small Isles 2019	FMA01_13	08/05/2019	11:25:02	11:34:42	56.801225	-6.191263	56.798823	-6.191967	216.4	224.6
Small Isles 2019	FMA01_15.01	08/05/2019	11:52:17	11:55:21	56.801062	-6.211598	56.800465	-6.213622	44.6	55.8
Small Isles 2019	FMA01_15.02	08/05/2019	11:55:21	11:57:07	56.800465	-6.213622	56.800217	-6.214680	55.8	73.3
Small Isles 2019	FMA01_15.03	08/05/2019	11:57:07	11:58:12	56.800217	-6.214680	56.800028	-6.215307	73.3	87.5
Small Isles 2019	FMA01_15.04	08/05/2019	11:58:12	12:01:18	56.800028	-6.215307	56.799562	-6.216945	87.5	114.4
Small Isles 2019	FMA01_16.01	08/05/2019	12:22:28	12:25:05	56.794188	-6.203412	56.793600	-6.204018	239.6	220.8
Small Isles 2019	FMA01_16.02	08/05/2019	12:25:37	12:31:44	56.793520	-6.204170	56.792545	-6.205893	220.8	219.0
Small Isles 2019	FMA01_17	08/05/2019	10:23:05	10:31:17	56.797013	-6.187278	56.795578	-6.190468	223.1	248.0
Small Isles 2019	FMA01_18.01	08/05/2019	09:51:38	09:53:16	56.790893	-6.180862	56.790735	-6.181440	112.8	129.6
Small Isles 2019	FMA01_18.02	08/05/2019	09:53:16	10:01:01	56.790735	-6.181440	56.789760	-6.183755	129.6	147.6
Small Isles 2019	FMA01_20	08/05/2019	12:49:02	12:52:36	56.787822	-6.205938	56.787258	-6.206913	171.1	169.5
Small Isles 2019	FMA01_22	08/05/2019	15:21:50	15:30:41	56.797100	-6.225398	56.796297	-6.227860	156.7	167.1
Small Isles 2019	FMA01_23.01	08/05/2019	16:23:02	16:26:07	56.788737	-6.235380	56.788443	-6.236300	176.9	176.7
Small Isles 2019	FMA01_23.02	08/05/2019	16:26:07	16:26:59	56.788443	-6.236300	56.788325	-6.236590	176.7	177.3
Small Isles 2019	FMA01_23.03	08/05/2019	16:26:59	16:28:42	56.788325	-6.236590	56.788098	-6.236968	177.3	181.7

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Small Isles 2019	FMA01_23.04	08/05/2019	16:28:42	16:31:11	56.788098	-6.236968	56.787752	-6.237395	181.7	185.1
Small Isles 2019	FMA01_23.05	08/05/2019	16:31:11	16:32:34	56.787752	-6.237395	56.787565	-6.237603	185.1	186.1
Small Isles 2019	FMA01_29.01	08/05/2019	14:04:06	14:04:41	56.784172	-6.229612	56.784057	-6.229728	176.6	172.1
Small Isles 2019	FMA01_29.02	08/05/2019	14:04:41	14:07:42	56.784057	-6.229728	56.783555	-6.230310	172.1	149.9
Small Isles 2019	FMA01_29.03	08/05/2019	14:07:42	14:08:24	56.783555	-6.230310	56.783397	-6.230417	149.9	149.0
Small Isles 2019	FMA01_29.04	08/05/2019	14:08:24	14:13:33	56.783397	-6.230417	56.782328	-6.231880	149.0	148.1
Small Isles 2019	FMA01_30.01	06/05/2019	10:23:31	10:27:44	56.825605	-6.188337	56.824892	-6.189040	126.5	
Small Isles 2019	FMA01_30.02	06/05/2019	10:27:44	10:32:45	56.824892	-6.189040	56.823978	-6.189972		133.1
Small Isles 2019	FMA01_31.01	08/05/2019	13:32:51	13:37:04	56.777327	-6.224557	56.776678	-6.226107	95.5	95.1
Small Isles 2019	FMA01_31.02	08/05/2019	13:37:04	13:39:30	56.776678	-6.226107	56.776223	-6.226655	95.1	95.3
Small Isles 2019	FMA01_31.03	08/05/2019	13:39:30	13:41:05	56.776223	-6.226655	56.775957	-6.227018	95.3	98.1
Small Isles 2019	FMA01_31.04	08/05/2019	13:41:05	13:42:48	56.775957	-6.227018	56.775687	-6.227523	98.1	100.5
Small Isles 2019	FMA01_34.01	08/05/2019	14:52:38	14:54:47	56.792803	-6.217347	56.792647	-6.218212	245.8	222.8
Small Isles 2019	FMA01_34.02	08/05/2019	14:58:44	15:00:35	56.792203	-6.219413	56.792002	-6.219855	214.9	210.1
Small Isles 2019	FMA01_35.01	08/05/2019	08:15:47	08:24:04	56.804362	-6.177337	56.803638	-6.180180	168.7	173.2
Small Isles 2019	FMA01_35.02	08/05/2019	08:24:04	08:24:33	56.803638	-6.180180	56.803592	-6.180343	173.2	174.8
Small Isles 2019	FMA04_01.01	05/05/2019	16:23:43	16:25:12	56.925972	-6.289307	56.925825	-6.288690	70.5	75.7
Small Isles 2019	FMA04_01.02	05/05/2019	16:25:12	16:26:05	56.925825	-6.288690	56.925753	-6.288305	75.7	80.9
Small Isles 2019	FMA04_01.03	05/05/2019	16:26:05	16:27:30	56.925753	-6.288305	56.925617	-6.287597	80.9	92.0
Small Isles 2019	FMA04_01.04	05/05/2019	16:27:30	16:27:46	56.925617	-6.287597	56.925595	-6.287467	92.0	93.2
Small Isles 2019	FMA04_01.05	05/05/2019	16:27:46	16:33:32	56.925595	-6.287467	56.925082	-6.284778	93.2	136.1
Small Isles 2019	FMA04_02.01	05/05/2019	11:49:40	11:55:36	56.909563	-6.295910	56.908345	-6.295670	154.2	139.0
Small Isles 2019	FMA04_02.02	05/05/2019	11:55:36	11:57:54	56.908345	-6.295670	56.907768	-6.295643	139.0	140.0
Small Isles 2019	FMA04_02.03	05/05/2019	11:57:54	11:59:10	56.907768	-6.295643	56.907502	-6.295608	140.0	135.2
Small Isles 2019	FMA04_02.04	05/05/2019	11:59:10	11:59:16	56.907502	-6.295608	56.907490	-6.295617	135.2	135.1
Small Isles 2019	FMA04_03	05/05/2019	13:31:43	13:41:12	56.913752	-6.269205	56.912413	-6.267187	121.8	97.5
Small Isles 2019	FMA04_04	06/05/2019	08:51:08	09:01:11	56.922050	-6.218417	56.920912	-6.222407	112.8	116.2
Small Isles 2019	FMA04_05	05/05/2019	09:36:32	09:41:04	56.903750	-6.269952	56.903002	-6.268952	143.0	155.5
Small Isles 2019	FMA04_06	05/05/2019	12:41:43	12:51:05	56.914993	-6.282223	56.913532	-6.280902	167.8	176.8
Small Isles 2019	FMA04_07	05/05/2019	09:14:00	09:23:26	56.899362	-6.277958	56.898242	-6.275508	52.8	53.6

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Small Isles 2019	FMA04_08	05/05/2019	10:21:53	10:31:40	56.905348	-6.304567	56.902927	-6.304290	169.7	156.4
Small Isles 2019	FMA04_09	06/05/2019	08:18:58	08:28:05	56.905620	-6.235035	56.904668	-6.238370	109.0	114.0
Small Isles 2019	FMA04_10	05/05/2019	15:15:12	15:24:40	56.891185	-6.248353	56.890835	-6.244550	107.0	86.9
Small Isles 2019	FMA04_11.01	05/05/2019	09:56:44	10:05:11	56.902842	-6.268877	56.902788	-6.283342	91.0	73.5
Small Isles 2019	FMA04_11.02	05/05/2019	10:05:11	10:05:47	56.902788	-6.283342	56.902715	-6.283358	73.5	69.7
Small Isles 2019	FMA04_12.01	05/05/2019	14:49:02	14:50:29	56.897267	-6.247057	56.897078	-6.246557	144.9	144.7
Small Isles 2019	FMA04_12.02	05/05/2019	14:50:29	14:50:45	56.897078	-6.246557	56.897050	-6.246448	144.7	144.5
Small Isles 2019	FMA04_12.03	05/05/2019	14:50:45	14:51:36	56.897050	-6.246448	56.896947	-6.246125	144.5	146.0
Small Isles 2019	FMA04_12.04	05/05/2019	14:51:36	14:52:04	56.896947	-6.246125	56.896890	-6.245947	146.0	147.2
Small Isles 2019	FMA04_12.05	05/05/2019	14:52:04	14:52:57	56.896890	-6.245947	56.896772	-6.245617	147.2	151.9
Small Isles 2019	FMA04_12.06	05/05/2019	14:52:57	14:53:34	56.896772	-6.245617	56.896682	-6.245362	151.9	155.3
Small Isles 2019	FMA04_12.07	05/05/2019	14:53:34	14:58:24	56.896682	-6.245362	56.896155	-6.243577	155.3	149.9
Small Isles 2019	FMA04_13.01	05/05/2019	12:17:28	12:20:36	56.915590	-6.292607	56.914907	-6.292387	78.6	84.1
Small Isles 2019	FMA04_13.02	05/05/2019	12:20:36	12:26:01	56.914907	-6.292387	56.913702	-6.292110	84.1	119.9
Small Isles 2019	FMA04_14.01	05/05/2019	16:49:41	16:50:00	56.919915	-6.293252	56.919880	-6.293117	86.9	89.5
Small Isles 2019	FMA04_14.02	05/05/2019	16:50:00	16:50:51	56.919880	-6.293117	56.919772	-6.292670	89.5	114.3
Small Isles 2019	FMA04_14.03	05/05/2019	16:50:51	16:51:11	56.919772	-6.292670	56.919728	-6.292507	114.3	117.6
Small Isles 2019	FMA04_14.04	05/05/2019	16:51:11	16:51:39	56.919728	-6.292507	56.919672	-6.292330	117.6	129.2
Small Isles 2019	FMA04_14.05	05/05/2019	16:51:39	16:52:13	56.919672	-6.292330	56.919620	-6.292065	129.2	134.9
Small Isles 2019	FMA04_14.06	05/05/2019	16:52:13	16:52:43	56.919620	-6.292065	56.919577	-6.291823	134.9	153.1
Small Isles 2019	FMA04_14.07	05/05/2019	16:52:43	16:58:28	56.919577	-6.291823	56.918980	-6.289170	153.1	138.1
Small Isles 2019	FMA04_15	05/05/2019	13:08:10	13:17:31	56.911293	-6.281047	56.910035	-6.279223	161.4	150.5
Small Isles 2019	FMA04_16.01	05/05/2019	08:50:49	08:53:14	56.895297	-6.272735	56.895103	-6.272235	75.5	85.3
Small Isles 2019	FMA04_16.02	05/05/2019	08:53:14	08:56:36	56.895103	-6.272235	56.894832	-6.270922	85.3	101.1
Small Isles 2019	FMA04_16.03	05/05/2019	08:56:36	08:59:25	56.894832	-6.270922	56.894570	-6.270232	101.1	128.5
Small Isles 2019	FMA04_16.04	05/05/2019	08:59:25	09:00:25	56.894570	-6.270232	56.894492	-6.269998	128.5	134.2
Small Isles 2019	FMA04_17.01	05/05/2019	08:26:56	08:31:28	56.889228	-6.266893	56.888807	-6.265600	143.0	149.8
Small Isles 2019	FMA04_17.02	05/05/2019	08:31:28	08:32:19	56.888807	-6.265600	56.888730	-6.265402	149.8	151.1
Small Isles 2019	FMA04_17.03	05/05/2019	08:32:19	08:33:35	56.888730	-6.265402	56.888598	-6.265085	151.1	152.0
Small Isles 2019	FMA04_17.04	05/05/2019	08:33:35	08:36:19	56.888598	-6.265085	56.888292	-6.264395	152.0	155.9

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Small Isles 2019	FMA04_18	05/05/2019	14:25:22	14:34:46	56.904702	-6.257757	56.903445	-6.254727	139.5	146.7
Small Isles 2019	FMA04_19	06/05/2019	08:51:08	09:02:01	56.922050	-6.218417	56.920760	-6.222632	106.1	104.2
Small Isles 2019	FMA04_20.01	05/05/2019	11:23:27	11:23:52	56.912153	-6.303900	56.912078	-6.303913	138.3	142.8
Small Isles 2019	FMA04_20.02	05/05/2019	11:23:52	11:26:40	56.912078	-6.303913	56.911510	-6.303920	142.8	156.8
Small Isles 2019	FMA04_20.03	05/05/2019	11:26:40	11:32:47	56.911510	-6.303920	56.910280	-6.304117	156.8	173.2
Small Isles 2019	FMA04_21.01	05/05/2019	13:54:08	14:01:12	56.909430	-6.260197	56.909012	-6.258500	112.3	133.0
Small Isles 2019	FMA04_21.02	05/05/2019	14:01:12	14:02:28	56.909012	-6.258500	56.908805	-6.258248	133.0	142.9
Small Isles 2019	FMA04_21.03	05/05/2019	14:02:28	14:03:34	56.908805	-6.258248	56.908632	-6.258045	142.9	163.2
Small Isles 2019	FMA04_22.01	05/05/2019	08:00:24	08:04:28	56.884392	-6.263722	56.883385	-6.262983	123.0	128.6
Small Isles 2019	FMA04_22.02	05/05/2019	08:04:28	08:04:41	56.883385	-6.262983	56.883327	-6.262970	128.6	127.6
Small Isles 2019	FMA04_22.03	05/05/2019	08:04:41	08:07:56	56.883327	-6.262970	56.882408	-6.262442	127.6	134.1
Small Isles 2019	FMA04_22.04	05/05/2019	08:07:56	08:08:56	56.882408	-6.262442	56.882173	-6.262262	134.1	138.8
Small Isles 2019	FMA04_22.05	05/05/2019	08:08:56	08:10:00	56.882173	-6.262262	56.881937	-6.262135	138.8	140.3
Small Isles 2019	NSF04_01.01	04/05/2019	09:02:37	09:03:10	56.808238	-6.088653	56.808142	-6.088697	46.4	
Small Isles 2019	NSF04_01.02	04/05/2019	09:03:10	09:06:36	56.808142	-6.088697	56.807402	-6.089243		
Small Isles 2019	NSF04_01.03	04/05/2019	09:06:36	09:09:48	56.807402	-6.089243	56.806857	-6.089522		
Small Isles 2019	NSF04_01.04	04/05/2019	09:09:48	09:10:20	56.806857	-6.089522	56.806727	-6.089605		58.5
Small Isles 2019	NSF04_02.01	05/05/2019	06:39:00	06:40:24	56.850835	-6.227442	56.850730	-6.227403	22.1	20.9
Small Isles 2019	NSF04_02.02	05/05/2019	06:40:24	06:40:50	56.850730	-6.227403	56.850643	-6.227418	20.9	20.8
Small Isles 2019	NSF04_02.03	05/05/2019	06:40:50	06:44:14	56.850643	-6.227418	56.849673	-6.227162	20.8	28.8
Small Isles 2019	NSF04_02.04	05/05/2019	06:44:14	06:44:39	56.849673	-6.227162	56.849555	-6.227203	28.8	29.0
Small Isles 2019	NSF04_02.05	05/05/2019	06:44:39	06:45:51	56.849555	-6.227203	56.849320	-6.227140	29.0	29.2
Small Isles 2019	NSF04_02.06	05/05/2019	06:45:51	06:48:21	56.849320	-6.227140	56.848912	-6.226937	29.2	28.6
Small Isles 2019	NSF04_03.01	05/05/2019	06:57:08	07:01:47	56.853975	-6.231092	56.853290	-6.230292	37.6	38.0
Small Isles 2019	NSF04_03.02	05/05/2019	07:01:47	07:05:01	56.853290	-6.230292	56.852748	-6.229275	38.0	20.4
Small Isles 2019	NSF04_03.03	05/05/2019	07:05:01	07:06:23	56.852748	-6.229275	56.852543	-6.228947	20.4	15.0
Small Isles 2019	NSF04_03.04	05/05/2019	07:06:23	07:06:57	56.852543	-6.228947	56.852455	-6.228813	15.0	14.5
Small Isles 2019	NSF04_04	05/05/2019	07:17:42	07:27:34	56.857352	-6.232665	56.855860	-6.231460	54.2	47.1
Small Isles 2019	NSF04_05.01	04/05/2019	11:54:41	11:56:26	56.805345	-6.133337	56.805050	-6.133607	47.5	45.1
Small Isles 2019	NSF04_05.02	04/05/2019	11:56:26	11:57:34	56.805050	-6.133607	56.804838	-6.133913	45.1	49.6

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Small Isles 2019	NSF04_05.03	04/05/2019	11:57:34	11:58:53	56.804838	-6.133913	56.804605	-6.134440	49.6	46.6
Small Isles 2019	NSF04_05.04	04/05/2019	11:58:53	12:02:16	56.804605	-6.134440	56.803895	-6.135338	46.6	55.3
Small Isles 2019	NSF04_05.05	04/05/2019	12:02:16	12:04:19	56.803895	-6.135338	56.803457	-6.135803	55.3	56.3
Small Isles 2019	NSF04_06.01	04/05/2019	12:17:14	12:17:25	56.809835	-6.130038	56.809797	-6.130095	73.1	73.3
Small Isles 2019	NSF04_06.02	04/05/2019	12:17:25	12:18:25	56.809797	-6.130095	56.809597	-6.130440	73.3	77.6
Small Isles 2019	NSF04_06.03	04/05/2019	12:18:25	12:20:15	56.809597	-6.130440	56.809192	-6.131090	77.6	75.3
Small Isles 2019	NSF04_06.04	04/05/2019	12:20:15	12:21:02	56.809192	-6.131090	56.809012	-6.131295	75.3	74.6
Small Isles 2019	NSF04_06.05	04/05/2019	12:21:02	12:26:59	56.809012	-6.131295	56.807713	-6.132422	74.6	66.3
Small Isles 2019	NSF04_06.06	04/05/2019	12:26:59	12:28:28	56.807713	-6.132422	56.807418	-6.132772	66.3	67.3
Small Isles 2019	NSF04_06.07	04/05/2019	12:28:28	12:28:53	56.807418	-6.132772	56.807337	-6.132865	67.3	67.0
Small Isles 2019	NSF04_07.01	04/05/2019	14:33:05	14:34:38	56.815595	-6.119278	56.815690	-6.119862	135.0	134.6
Small Isles 2019	NSF04_07.02	04/05/2019	14:34:38	14:40:44	56.815690	-6.119862	56.815393	-6.122380	134.6	83.2
Small Isles 2019	NSF04_07.03	04/05/2019	14:40:44	14:42:28	56.815393	-6.122380	56.815393	-6.123173	83.2	81.7
Small Isles 2019	NSF04_07.04	04/05/2019	14:42:28	14:43:00	56.815393	-6.123173	56.815407	-6.123465	81.7	79.1
Small Isles 2019	NSF04_08.01	04/05/2019	07:56:26	07:59:23	56.875170	-6.030185	56.874615	-6.029758	25.8	24.3
Small Isles 2019	NSF04_08.02	04/05/2019	07:59:23	07:59:46	56.874615	-6.029758	56.874552	-6.029705	24.3	24.6
Small Isles 2019	NSF04_08.03	04/05/2019	07:59:46	08:05:56	56.874552	-6.029705	56.873683	-6.028703	24.6	23.5
Small Isles 2019	NSF04_09.01	04/05/2019	08:13:33	08:13:53	56.871070	-6.027202	56.871003	-6.027198	24.5	25.6
Small Isles 2019	NSF04_09.02	04/05/2019	08:13:53	08:15:29	56.871003	-6.027198	56.870648	-6.027205	25.6	28.6
Small Isles 2019	NSF04_09.03	04/05/2019	08:15:29	08:18:03	56.870648	-6.027205	56.870067	-6.027082	28.6	38.7
Small Isles 2019	NSF04_09.04	04/05/2019	08:18:03	08:19:29	56.870067	-6.027082	56.869772	-6.027012	38.7	67.4
Small Isles 2019	NSF04_09.05	04/05/2019	08:19:29	08:23:10	56.869772	-6.027012	56.868940	-6.026955	67.4	74.0
Small Isles 2019	NSF04_10.01	04/05/2019	11:07:31	11:13:12	56.796828	-6.137428	56.796145	-6.138943	68.1	63.1
Small Isles 2019	NSF04_10.02	04/05/2019	11:13:12	11:14:24	56.796145	-6.138943	56.796018	-6.139277	63.1	65.4
Small Isles 2019	NSF04_10.03	04/05/2019	11:14:24	11:15:20	56.796018	-6.139277	56.795892	-6.139542	65.4	62.4
Small Isles 2019	NSF04_10.04	04/05/2019	11:15:20	11:16:23	56.795892	-6.139542	56.795760	-6.139848	62.4	63.2
Small Isles 2019	NSF04_10.05	04/05/2019	11:16:23	11:17:24	56.795760	-6.139848	56.795637	-6.140155	63.2	63.3
Small Isles 2019	NSF04_11.01	04/05/2019	10:14:03	10:15:10	56.787035	-6.108472	56.786985	-6.108658	43.6	44.8
Small Isles 2019	NSF04_11.02	04/05/2019	10:15:10	10:23:34	56.786985	-6.108658	56.785430	-6.109083	44.8	41.0
Small Isles 2019	NSF04_12	04/05/2019	16:26:53	16:36:27	56.877185	-6.113710	56.875123	-6.111637	65.6	84.0

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Small Isles 2019	NSF04_13.01	04/05/2019	15:03:40	15:09:34	56.829767	-6.102755	56.829077	-6.103415	24.8	38.0
Small Isles 2019	NSF04_13.02	04/05/2019	15:09:34	15:11:01	56.829077	-6.103415	56.828768	-6.103827	38.0	40.1
Small Isles 2019	NSF04_13.03	04/05/2019	15:11:01	15:12:37	56.828768	-6.103827	56.828467	-6.104007	40.1	43.7
Small Isles 2019	NSF04_13.04	04/05/2019	15:12:37	15:12:54	56.828467	-6.104007	56.828420	-6.104035	43.7	47.0
Small Isles 2019	NSF04_14.01	04/05/2019	16:04:13	16:08:40	56.889653	-6.112233	56.888878	-6.112213	63.3	61.9
Small Isles 2019	NSF04_14.02	04/05/2019	16:08:40	16:13:36	56.888878	-6.112213	56.887883	-6.112477	61.9	64.8
Small Isles 2019	NSF04_15.01	04/05/2019	09:28:23	09:33:38	56.791940	-6.097105	56.791185	-6.098040	75.0	58.1
Small Isles 2019	NSF04_15.02	04/05/2019	09:33:38	09:34:34	56.791185	-6.098040	56.791020	-6.098325	58.1	47.6
Small Isles 2019	NSF04_15.03	04/05/2019	09:34:34	09:36:02	56.791020	-6.098325	56.790763	-6.098943	47.6	40.9
Small Isles 2019	NSF04_15.04	04/05/2019	09:36:02	09:37:21	56.790763	-6.098943	56.790567	-6.099600	40.9	35.2
Small Isles 2019	NSF04_15.05	04/05/2019	09:37:21	09:38:39	56.790567	-6.099600	56.790370	-6.100263	35.2	39.3
Small Isles 2019	NSF04_17.01	04/05/2019	09:52:12	10:00:05	56.782655	-6.088737	56.781108	-6.090957	29.0	57.1
Small Isles 2019	NSF04_17.02	04/05/2019	10:00:05	10:01:57	56.781108	-6.090957	56.780713	-6.091305	57.1	57.5
Loch Alsh 2019	LA1_1.01	03/05/2019	12:59:30	13:02:09	57.271798	-5.701803	57.271903	-5.702443	54.2	40.0
Loch Alsh 2019	LA1_1.02	03/05/2019	13:02:09	13:02:41	57.271903	-5.702443	57.271967	-5.702663	40.0	39.2
Loch Alsh 2019	LA1_1.03	03/05/2019	13:02:41	13:04:35	57.271967	-5.702663	57.272207	-5.703212	39.2	42.3
Loch Alsh 2019	LA1_1.04	03/05/2019	13:04:35	13:08:48	57.272207	-5.703212	57.272833	-5.704660	42.3	49.8
Loch Alsh 2019	LA1_1.05	03/05/2019	13:08:48	13:22:05	57.272835	-5.704665	57.274002	-5.709395	49.8	33.8
Loch Alsh 2019	LA2_1.01	03/05/2019	13:33:34	13:36:32	57.278725	-5.693162	57.278650	-5.694553	34.3	39.3
Loch Alsh 2019	LA2_1.02	03/05/2019	13:36:32	13:39:36	57.278650	-5.694553	57.278548	-5.695837	39.3	47.7
Loch Alsh 2019	LA2_1.03	03/05/2019	13:39:36	13:47:51	57.278548	-5.695837	57.278287	-5.698697	47.7	40.5
Loch Alsh 2019	LA2_1.04	03/05/2019	13:47:51	13:48:27	57.278287	-5.698697	57.278250	-5.698935	40.5	39.1
Loch Alsh 2019	LA2_1.05	03/05/2019	13:48:27	13:49:31	57.278250	-5.698935	57.278197	-5.699342	39.1	37.0
Loch Alsh 2019	LA2_1.06	03/05/2019	13:49:31	13:49:55	57.278197	-5.699342	57.278180	-5.699495	37.0	36.5
Loch Alsh 2019	LA2_1.07	03/05/2019	13:49:55	13:52:19	57.278180	-5.699495	57.278040	-5.700263	36.5	33.0
Loch Carron 2019	LC01.1	30/06/2019	08:24:13	08:35:37	57.357982	-5.549894	57.357231	-5.552419	12.8	
Loch Carron 2019	LC01.2	30/06/2019	08:35:37	08:38:59	57.357231	-5.552419	57.357226	-5.553818		6.0
Loch Carron 2019	LC02	30/06/2019	08:48:30	08:53:45	57.359022	-5.544859	57.359023	-5.544563	27.1	25.2
Loch Carron 2019	LC03	30/06/2019	08:59:05	09:04:06	57.357731	-5.549868	57.357259	-5.551480	14.2	12.3
Loch Carron 2019	LC04.01	30/06/2019	10:30:01	10:36:29	57.357079	-5.544694	57.358278	-5.544396	11.0	

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Loch Carron 2019	LC04.02	30/06/2019	10:36:29	10:37:38	57.358278	-5.544396	57.358481	-5.544264		33.0
Loch Carron 2019	LC05.01	30/06/2019	10:44:30	10:54:25	57.357133	-5.545763	57.358847	-5.544762	9.0	
Loch Carron 2019	LC05.02	30/06/2019	10:54:25	10:56:23	57.358847	-5.544762	57.359294	-5.544414		38.0
Loch Carron 2019	LC06.01	30/06/2019	11:01:51	11:06:54	57.356692	-5.543803	57.357166	-5.542667	11.0	
Loch Carron 2019	LC06.02	30/06/2019	11:06:54	11:10:03	57.357166	-5.542667	57.357738	-5.542149		38.0
Loch Carron 2019	LC07.01	30/06/2019	11:14:26	11:16:54	57.355762	-5.541595	57.356053	-5.540975	9.0	
Loch Carron 2019	LC07.02	30/06/2019	11:16:54	11:19:20	57.356053	-5.540975	57.356555	-5.540580		33.0
Loch Carron 2019	LC08.01	30/06/2019	11:26:14	11:28:20	57.357326	-5.547573	57.357732	-5.546574	11.0	
Loch Carron 2019	LC08.02	30/06/2019	11:28:20	11:33:10	57.357732	-5.546574	57.358950	-5.545188		
Loch Carron 2019	LC08.03	30/06/2019	11:33:10	11:35:24	57.358950	-5.545188	57.359527	-5.544770		33.0
Loch Carron 2019	LC09.01	30/06/2019	11:39:54	11:43:52	57.358169	-5.547959	57.359041	-5.546722	14.0	
Loch Carron 2019	LC09.02	30/06/2019	11:43:52	11:47:51	57.359041	-5.546722	57.359851	-5.545761		
Loch Carron 2019	LC10	01/07/2019	08:29:09	08:33:42	57.363833	-5.651583	57.363894	-5.651262	14.3	16.4
Loch Carron 2019	LC11	01/07/2019	08:37:40	08:49:40	57.362649	-5.650753	57.362827	-5.650819	11.5	14.6
Loch Carron 2019	LC12.01	01/07/2019	08:54:29	09:02:08	57.362381	-5.648866	57.362728	-5.648908	13.7	
Loch Carron 2019	LC12.02	01/07/2019	09:02:08	09:03:58	57.362728	-5.648908	57.362737	-5.648896		
Loch Carron 2019	LC12.03	01/07/2019	09:03:58	09:05:44	57.362737	-5.648896	57.362460	-5.649579		13.8
Loch Carron 2019	LC13.01	01/07/2019	09:09:46	09:14:07	57.361439	-5.649956	57.361402	-5.649885	12.9	
Loch Carron 2019	LC13.02	01/07/2019	09:14:07	09:18:21	57.361402	-5.649885	57.361234	-5.650616		
Loch Carron 2019	LC13.03	01/07/2019	09:18:21	09:21:10	57.361234	-5.650616	57.361251	-5.650670		10.0
Loch Carron 2019	LC14	01/07/2019	09:26:27	09:30:51	57.362227	-5.647333	57.362515	-5.647036	8.1	7.1
Loch Carron 2019	LC15.01	01/07/2019	09:33:37	09:48:23	57.361629	-5.647167	57.362080	-5.647575	15.2	
Loch Carron 2019	LC15.02	01/07/2019	09:48:23	09:57:48	57.362080	-5.647575	57.362404	-5.647734		10.5
Loch Carron 2019	LC16	01/07/2019	10:25:47	10:49:13	57.358977	-5.662111	57.358011	-5.662739	16.8	19.1
Loch Carron 2019	LC17	01/07/2019	10:59:28	11:05:48	57.365799	-5.661518	57.366317	-5.661276	11.1	11.2
Loch Carron 2019	LC18.01	01/07/2019	11:10:11	11:15:39	57.364460	-5.660069	57.364302	-5.659468	11.7	
Loch Carron 2019	LC18.02	01/07/2019	11:15:39	11:22:09	57.364302	-5.659468	57.364554	-5.658175		
Loch Carron 2019	LC18.03	01/07/2019	11:22:09	11:24:26	57.364554	-5.658175	57.364494	-5.657748		19.3
Loch Carron 2019	LC19.01	01/07/2019	11:29:24	11:32:52	57.365747	-5.657751	57.365865	-5.657118	14.3	
Loch Carron 2019	LC19.02	01/07/2019	11:32:52	11:35:06	57.365865	-5.657118	57.365766	-5.656731		

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Inner Sound 2019	FMA05_01	02/05/2019	16:25:37	16:34:23	57.339675	-5.879912	57.337365	-5.880113	228.1	153.6
Inner Sound 2019	FMA05_03	02/05/2019	14:48:46	14:57:58	57.338975	-5.872437	57.336132	-5.870673	196.4	192.1
Inner Sound 2019	FMA05_04.01	03/05/2019	07:55:46	08:03:04	57.350510	-5.876200	57.349507	-5.876282	49.5	48.5
Inner Sound 2019	FMA05_04.02	03/05/2019	08:03:04	08:03:54	57.349507	-5.876282	57.349370	-5.876287	48.5	48.4
Inner Sound 2019	FMA05_04.03	03/05/2019	08:03:54	08:05:50	57.349370	-5.876287	57.349077	-5.876320	48.4	53.6
Inner Sound 2019	FMA05_05.01	02/05/2019	15:16:21	15:17:44	57.335618	-5.882513	57.335162	-5.882238	126.4	126.4
Inner Sound 2019	FMA05_05.02	02/05/2019	15:17:44	15:19:36	57.335162	-5.882238	57.334525	-5.882040	126.4	120.7
Inner Sound 2019	FMA05_05.03	02/05/2019	15:19:36	15:20:01	57.334525	-5.882040	57.334377	-5.881995	120.7	121.2
Inner Sound 2019	FMA05_05.04	02/05/2019	15:20:01	15:20:43	57.334377	-5.881995	57.334132	-5.881908	121.2	123.0
Inner Sound 2019	FMA05_05.05	02/05/2019	15:20:43	15:25:49	57.334132	-5.881908	57.332325	-5.881158	123.0	123.6
Inner Sound 2019	FMA05_06	02/05/2019	13:22:42	13:32:28	57.332817	-5.873928	57.329975	-5.873103	160.5	154.5
Inner Sound 2019	FMA05_07	02/05/2019	14:18:09	14:27:14	57.336410	-5.862163	57.333278	-5.860877	163.3	173.0
Inner Sound 2019	FMA05_09	02/05/2019	12:23:58	12:33:50	57.328695	-5.863168	57.326578	-5.862097	191.8	209.1
Inner Sound 2019	FMA05_10.01	02/05/2019	13:53:45	13:56:08	57.336960	-5.852563	57.336160	-5.852392	45.3	48.4
Inner Sound 2019	FMA05_10.02	02/05/2019	13:56:08	13:56:52	57.336160	-5.852392	57.335952	-5.852195	48.4	45.3
Inner Sound 2019	FMA05_10.03	02/05/2019	13:56:52	14:02:28	57.335952	-5.852195	57.334192	-5.851157	45.3	38.9
Inner Sound 2019	FMA05_12.01	02/05/2019	12:54:08	12:55:00	57.327883	-5.884723	57.327660	-5.884665	87.3	85.7
Inner Sound 2019	FMA05_12.02	02/05/2019	12:55:00	12:59:31	57.327660	-5.884665	57.326530	-5.884128	85.7	69.0
Inner Sound 2019	FMA05_12.03	02/05/2019	12:59:31	13:00:28	57.326530	-5.884128	57.326315	-5.883915	69.0	70.1
Inner Sound 2019	FMA05_12.04	02/05/2019	13:00:28	13:01:41	57.326315	-5.883915	57.326023	-5.883627	70.1	76.4
Inner Sound 2019	FMA05_12.05	02/05/2019	13:01:41	13:02:32	57.326023	-5.883627	57.325833	-5.883437	76.4	76.7
Inner Sound 2019	FMA05_12.06	02/05/2019	13:02:32	13:03:00	57.325833	-5.883437	57.325710	-5.883313	76.7	79.2
Inner Sound 2019	FMA05_13.01	02/05/2019	11:58:17	12:00:14	57.332048	-5.852077	57.331710	-5.852052	58.3	60.1
Inner Sound 2019	FMA05_13.02	02/05/2019	12:00:14	12:02:26	57.331710	-5.852052	57.331330	-5.852135	60.1	62.4
Inner Sound 2019	FMA05_13.03	02/05/2019	12:02:26	12:04:03	57.331330	-5.852135	57.331060	-5.852313	62.4	65.4
Inner Sound 2019	FMA05_13.04	02/05/2019	12:04:03	12:07:44	57.331060	-5.852313	57.330362	-5.852190	65.4	70.4
Inner Sound 2019	FMA05_13.05	02/05/2019	12:07:44	12:08:19	57.330362	-5.852190	57.330270	-5.852147	70.4	69.6
Inner Sound 2019	FMA05_14	02/05/2019	10:22:47	10:31:19	57.324795	-5.867752	57.324238	-5.868795	188.0	175.4
Inner Sound 2019	FMA05_15	02/05/2019	08:18:08	08:28:13	57.322508	-5.847632	57.321888	-5.846632	216.4	217.5
Inner Sound 2019	FMA05_16.01	02/05/2019	11:12:11	11:12:51	57.324877	-5.855430	57.324778	-5.855323	131.4	131.4

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Inner Sound 2019	FMA05_16.02	02/05/2019	11:12:51	11:14:04	57.324778	-5.855323	57.324588	-5.855250	131.4	133.9
Inner Sound 2019	FMA05_16.03	02/05/2019	11:14:04	11:20:37	57.324588	-5.855250	57.323488	-5.855192	133.9	163.8
Inner Sound 2019	FMA05_16.04	02/05/2019	11:20:37	11:21:50	57.323488	-5.855192	57.323325	-5.854993	163.8	159.2
Inner Sound 2019	FMA05_17.01	02/05/2019	11:36:52	11:43:26	57.329098	-5.848075	57.327875	-5.848025	38.8	54.6
Inner Sound 2019	FMA05_17.02	02/05/2019	11:43:26	11:44:01	57.327875	-5.848025	57.327757	-5.847972	54.6	58.5
Inner Sound 2019	FMA05_17.03	02/05/2019	11:44:01	11:45:14	57.327757	-5.847972	57.327503	-5.847883	58.5	68.0
Inner Sound 2019	FMA05_17.04	02/05/2019	11:45:14	11:45:33	57.327503	-5.847883	57.327438	-5.847870	68.0	70.2
Inner Sound 2019	FMA05_17.05	02/05/2019	11:45:33	11:46:22	57.327438	-5.847870	57.327263	-5.847872	70.2	77.5
Inner Sound 2019	FMA05_18	02/05/2019	08:53:58	09:03:55	57.321057	-5.858692	57.320060	-5.860068	249.3	246.7
Inner Sound 2019	FMA05_19	02/05/2019	09:54:35	10:03:03	57.320130	-5.871798	57.319665	-5.873297	156.3	151.6
Inner Sound 2019	FMA05_20	02/05/2019	09:24:52	09:34:30	57.315680	-5.862972	57.315093	-5.864900	209.1	194.9
Inner Sound 2019	FMA05_24.01	03/05/2019	11:26:48	11:28:05	57.359663	-5.901412	57.359368	-5.901493	106.4	113.6
Inner Sound 2019	FMA05_24.02	03/05/2019	11:28:05	11:28:37	57.359368	-5.901493	57.359270	-5.901523	113.6	112.3
Inner Sound 2019	FMA05_24.03	03/05/2019	11:28:37	11:30:12	57.359270	-5.901523	57.358883	-5.901595	112.3	113.1
Inner Sound 2019	FMA05_24.04	03/05/2019	11:30:12	11:33:25	57.358883	-5.901595	57.358127	-5.901835	113.1	130.5
Inner Sound 2019	FMA05_24.05	03/05/2019	11:33:25	11:36:26	57.358127	-5.901835	57.357413	-5.901575	130.5	121.9
Inner Sound 2019	FMA05_26.01	03/05/2019	10:01:54	10:04:19	57.356295	-5.895373	57.355847	-5.895347	69.8	71.5
Inner Sound 2019	FMA05_26.02	03/05/2019	10:04:19	10:04:42	57.355847	-5.895347	57.355767	-5.895317	71.5	69.4
Inner Sound 2019	FMA05_26.03	03/05/2019	10:04:42	10:06:50	57.355767	-5.895317	57.355402	-5.895148	69.4	73.1
Inner Sound 2019	FMA05_26.04	03/05/2019	10:06:50	10:08:04	57.355402	-5.895148	57.355187	-5.895108	73.1	79.6
Inner Sound 2019	FMA05_26.05	03/05/2019	10:08:04	10:10:47	57.355187	-5.895108	57.354765	-5.894752	79.6	89.0
Inner Sound 2019	FMA05_26.06	03/05/2019	10:10:47	10:10:58	57.354765	-5.894752	57.354748	-5.894732	89.0	89.3
Inner Sound 2019	FMA05_26.07	03/05/2019	10:10:58	10:11:22	57.354748	-5.894732	57.354685	-5.894670	89.3	88.9
Inner Sound 2019	FMA05_28.01	03/05/2019	09:37:02	09:40:56	57.352922	-5.908685	57.352260	-5.909158	133.5	113.6
Inner Sound 2019	FMA05_28.02	03/05/2019	09:40:56	09:41:17	57.352260	-5.909158	57.352200	-5.909195	113.6	111.5
Inner Sound 2019	FMA05_28.03	03/05/2019	09:41:17	09:47:27	57.352200	-5.909195	57.350842	-5.908588	111.5	103.9
Inner Sound 2019	FMA05_29.01	03/05/2019	09:09:27	09:11:03	57.350065	-5.896145	57.349765	-5.896223	169.7	174.3
Inner Sound 2019	FMA05_29.02	03/05/2019	09:11:03	09:12:29	57.349765	-5.896223	57.349535	-5.896163	174.3	181.3
Inner Sound 2019	FMA05_29.03	03/05/2019	09:12:29	09:15:06	57.349535	-5.896163	57.349113	-5.896437	181.3	199.8
Inner Sound 2019	FMA05_29.04	03/05/2019	09:15:06	09:17:17	57.349113	-5.896437	57.348753	-5.896492	199.8	210.4

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
Inner Sound 2019	FMA05_29.05	03/05/2019	09:17:17	09:19:18	57.348753	-5.896492	57.348428	-5.896573	210.4	198.0
Inner Sound 2019	FMA05_30.01	03/05/2019	08:15:43	08:16:27	57.350747	-5.884533	57.350658	-5.884638	72.9	75.0
Inner Sound 2019	FMA05_30.02	03/05/2019	08:16:27	08:17:34	57.350658	-5.884638	57.350538	-5.884762	75.0	77.6
Inner Sound 2019	FMA05_30.03	03/05/2019	08:17:34	08:25:27	57.350538	-5.884762	57.349450	-5.884830	77.6	98.3
Inner Sound 2019	FMA05_31	03/05/2019	10:57:56	11:07:47	57.356675	-5.885275	57.354420	-5.886212	54.0	52.5
Inner Sound 2019	FMA05_32	03/05/2019	07:34:28	07:44:21	57.347425	-5.877193	57.346035	-5.878507	62.5	92.6
Inner Sound 2019	FMA05_33.01	03/05/2019	08:39:57	08:43:52	57.344468	-5.888452	57.343798	-5.888575	209.2	199.8
Inner Sound 2019	FMA05_33.02	03/05/2019	08:43:52	08:45:49	57.343798	-5.888575	57.343460	-5.888717	199.8	191.7
Inner Sound 2019	FMA05_33.03	03/05/2019	08:45:49	08:49:28	57.343460	-5.888717	57.342822	-5.889125	191.7	181.1
Inner Sound 2019	FMA05_34.01	03/05/2019	07:07:39	07:10:06	57.342040	-5.885397	57.341505	-5.885453	218.1	203.2
Inner Sound 2019	FMA05_34.02	03/05/2019	07:10:06	07:11:22	57.341505	-5.885453	57.341245	-5.885530	203.2	202.2
Inner Sound 2019	FMA05_34.03	03/05/2019	07:11:22	07:14:05	57.341245	-5.885530	57.340655	-5.885760	202.2	204.8
Inner Sound 2019	FMA05_34.04	03/05/2019	07:14:05	07:17:04	57.340655	-5.885760	57.340065	-5.886000	204.8	194.0
East of Shetland 2017	SH_V16.01	05/11/2017	15:15:29	15:34:50	60.310728	-1.067747	60.313062	-1.071645	53.4	58.7
East of Shetland 2017	SH_V16.02	05/11/2017	15:34:50	15:35:58	60.313062	-1.071645	60.313192	-1.071973	58.7	59.3
East of Shetland 2017	SH_V16.03	05/11/2017	15:35:58	15:42:24	60.313192	-1.071973	60.313978	-1.073238	59.3	60.2
East of Shetland 2017	SH_V16.04	05/11/2017	15:42:24	15:53:34	60.313978	-1.073238	60.314837	-1.075857	60.2	59.6
East of Shetland 2017	SH_V17.01	05/11/2017	13:57:21	14:14:39	60.329932	-1.096365	60.331857	-1.098703	46.6	45.8
East of Shetland 2017	SH_V17.02	05/11/2017	14:14:39	14:35:53	60.331857	-1.098703	60.333932	-1.102573	45.8	42.6
East of Shetland 2017	SH_V19.01	06/11/2017	10:17:40	10:18:27	60.396405	-0.927957	60.396295	-0.928150	38.9	39.7
East of Shetland 2017	SH_V19.02	06/11/2017	10:18:27	10:33:58	60.396295	-0.928150	60.394167	-0.933325	39.7	38.8
East of Shetland 2017	SH_V19.03	06/11/2017	10:33:58	10:34:56	60.394167	-0.933325	60.394052	-0.933635	38.8	39.6
East of Shetland 2017	SH_V19.04	06/11/2017	10:34:56	10:36:46	60.394052	-0.933635	60.393865	-0.934222	39.6	37.2
East of Shetland 2017	SH_V20.01	06/11/2017	15:16:46	15:18:02	60.384935	-1.059655	60.384640	-1.059683	70.9	71.9
East of Shetland 2017	SH_V20.02	06/11/2017	15:18:02	15:18:51	60.384640	-1.059683	60.384488	-1.059727	71.9	73.4
East of Shetland 2017	SH_V20.03	06/11/2017	15:18:51	15:20:56	60.384488	-1.059727	60.384193	-1.059887	73.4	74.5
East of Shetland 2017	SH_V20.04	06/11/2017	15:20:56	15:21:53	60.384193	-1.059887	60.384092	-1.059983	74.5	73.5
East of Shetland 2017	SH_V20.05	06/11/2017	15:21:53	15:26:28	60.384092	-1.059983	60.383505	-1.059085	73.5	73.6
East of Shetland 2017	SH_V20.06	06/11/2017	15:26:28	15:26:52	60.383505	-1.059085	60.383457	-1.058853	73.6	73.8
East of Shetland 2017	SH_V20.07	06/11/2017	15:26:52	15:27:54	60.383457	-1.058853	60.383373	-1.058287	73.8	71.4

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
East of Shetland 2017	SH_V20.08	06/11/2017	15:27:54	15:29:38	60.383373	-1.058287	60.383218	-1.057837	71.4	66.0
East of Shetland 2017	SH_V20.09	06/11/2017	15:29:38	15:30:22	60.383218	-1.057837	60.383072	-1.057630	66.0	65.2
East of Shetland 2017	SH_V20.10	06/11/2017	15:30:22	15:31:07	60.383072	-1.057630	60.382922	-1.057293	65.2	64.0
East of Shetland 2017	SH_V20.11	06/11/2017	15:31:07	15:34:28	60.382922	-1.057293	60.382440	-1.057208	64.0	60.9
East of Shetland 2017	SH_V21	06/11/2017	14:12:35	14:31:35	60.387000	-1.034073	60.383888	-1.033417	77.9	64.2
East of Shetland 2017	SH_V23.01	05/11/2017	09:59:44	10:30:48	60.318353	-1.004512	60.319905	-1.012247	50.4	54.5
East of Shetland 2017	SH_V23.02	05/11/2017	10:30:48	10:31:11	60.319905	-1.012247	60.319918	-1.012425	54.5	52.2
East of Shetland 2017	SH_V23.03	05/11/2017	10:31:11	10:34:30	60.319918	-1.012425	60.319520	-1.013547	52.2	52.2
East of Shetland 2017	SH_V23.04	05/11/2017	10:34:30	10:37:52	60.319520	-1.013547	60.319475	-1.014083	52.2	50.1
East of Shetland 2017	SH_V24.01	05/11/2017	11:24:22	11:31:27	60.330315	-1.052023	60.331613	-1.053150	46.0	43.5
East of Shetland 2017	SH_V24.02	05/11/2017	11:31:27	11:37:05	60.331613	-1.053150	60.332658	-1.052458	43.5	39.9
East of Shetland 2017	SH_V24.03	05/11/2017	11:37:05	11:38:18	60.332658	-1.052458	60.332887	-1.052655	39.9	40.4
East of Shetland 2017	SH_V24.04	05/11/2017	11:38:18	11:41:13	60.332887	-1.052655	60.333448	-1.053602	40.4	39.9
East of Shetland 2017	SH_V24.05	05/11/2017	11:41:13	11:44:03	60.333448	-1.053602	60.333793	-1.054425	39.9	33.1
East of Shetland 2017	SH_V24.06	05/11/2017	11:44:03	11:55:08	60.333793	-1.054425	60.335400	-1.057833	33.1	18.3
East of Shetland 2017	SH_V25.01	05/11/2017	12:45:06	12:46:30	60.342777	-1.053222	60.342995	-1.053725	35.8	40.1
East of Shetland 2017	SH_V25.02	05/11/2017	12:46:30	12:52:20	60.342995	-1.053725	60.343947	-1.055125	40.1	41.0
East of Shetland 2017	SH_V25.03	05/11/2017	12:52:20	13:22:20	60.343947	-1.055125	60.348560	-1.059705	41.0	46.0
East of Shetland 2017	SH_V27	06/11/2017	06:24:26	07:03:09	60.397210	-0.975228	60.391542	-0.981367	76.8	74.9
East of Shetland 2017	SH_V27_2	06/11/2017	09:18:21	09:39:13	60.398073	-0.979078	60.395173	-0.983445	84.7	75.1
East of Shetland 2017	SH_V29.01	05/11/2017	18:16:43	18:25:07	60.320253	-0.843858	60.320812	-0.844620	78.5	76.2
East of Shetland 2017	SH_V29.02	05/11/2017	18:25:07	18:26:53	60.320812	-0.844620	60.321002	-0.844780	76.2	77.4
East of Shetland 2017	SH_V29.03	05/11/2017	18:26:53	18:27:18	60.321002	-0.844780	60.321107	-0.844897	77.4	76.2
East of Shetland 2017	SH_V29.04	05/11/2017	18:27:18	18:35:55	60.321107	-0.844897	60.322135	-0.846098	76.2	73.3
East of Shetland 2017	SH_V29.05	05/11/2017	18:35:55	18:36:37	60.322135	-0.846098	60.322227	-0.846210	73.3	71.1
East of Shetland 2017	SH_V29.06	05/11/2017	18:36:37	18:36:45	60.322227	-0.846210	60.322240	-0.846225	71.1	71.0
East of Shetland 2017	SH_V29.07	05/11/2017	18:36:45	18:48:19	60.322240	-0.846225	60.323912	-0.848498	71.0	42.4
East of Shetland 2017	SH_V29.08	05/11/2017	18:48:19	18:53:35	60.323912	-0.848498	60.324647	-0.849400	42.4	33.0
East of Shetland 2017	SH_V29_2.01	05/11/2017	22:31:58	22:36:20	60.319118	-0.853070	60.319935	-0.852870	71.2	71.7
East of Shetland 2017	SH_V29_2.02	05/11/2017	22:36:20	22:36:33	60.319935	-0.852870	60.319975	-0.852875	71.7	70.9

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
East of Shetland 2017	SH_V29_2.03	05/11/2017	22:36:33	22:37:12	60.319975	-0.852875	60.320103	-0.852853	70.9	70.8
East of Shetland 2017	SH_V29_2.04	05/11/2017	22:37:12	22:37:36	60.320103	-0.852853	60.320190	-0.852845	70.8	70.2
East of Shetland 2017	SH_V29_2.05	05/11/2017	22:37:36	22:37:48	60.320190	-0.852845	60.320167	-0.852833	70.2	70.6
East of Shetland 2017	SH_V29_2.06	05/11/2017	22:37:48	22:37:56	60.320167	-0.852833	60.320265	-0.852815	70.6	70.8
East of Shetland 2017	SH_V29_2.07	05/11/2017	22:37:56	22:38:53	60.320265	-0.852815	60.320488	-0.852675	70.8	70.0
East of Shetland 2017	SH_V29_2.08	05/11/2017	22:38:53	22:39:23	60.320488	-0.852675	60.320612	-0.852620	70.0	69.4
East of Shetland 2017	SH_V29_2.09	05/11/2017	22:39:23	22:39:35	60.320612	-0.852620	60.320662	-0.852593	69.4	68.2
East of Shetland 2017	SH_V29_2.10	05/11/2017	22:39:35	22:40:48	60.320662	-0.852593	60.320965	-0.852455	68.2	59.0
East of Shetland 2017	SH_V29_2.11	05/11/2017	22:40:48	22:45:56	60.320965	-0.852455	60.321987	-0.852408	59.0	53.2
East of Shetland 2017	SH_V29_2.12	05/11/2017	22:45:56	22:46:13	60.321987	-0.852408	60.322038	-0.852437	53.2	53.0
East of Shetland 2017	SH_V29_2.13	05/11/2017	22:46:13	22:55:16	60.322038	-0.852437	60.323800	-0.852887	53.0	68.1
East of Shetland 2017	SH_V29_2.14	05/11/2017	22:55:16	23:11:10	60.323800	-0.852887	60.326258	-0.850455	68.1	62.3
East of Shetland 2017	SH_V30.01	05/11/2017	21:06:09	21:08:38	60.358698	-0.832742	60.359022	-0.832813	51.7	54.9
East of Shetland 2017	SH_V30.02	05/11/2017	21:08:38	21:12:12	60.359022	-0.832813	60.359605	-0.833398	54.9	55.0
East of Shetland 2017	SH_V30.03	05/11/2017	21:12:12	21:12:31	60.359605	-0.833398	60.359658	-0.833485	55.0	54.0
East of Shetland 2017	SH_V30.04	05/11/2017	21:12:31	21:15:08	60.359658	-0.833485	60.359977	-0.834365	54.0	54.7
East of Shetland 2017	SH_V30.05	05/11/2017	21:15:08	21:24:59	60.359977	-0.834365	60.361325	-0.836788	54.7	55.2
East of Shetland 2017	SH_V30.06	05/11/2017	21:24:59	21:37:46	60.361325	-0.836788	60.362925	-0.835935	55.2	56.6
East of Shetland 2017	SH_V30.07	05/11/2017	21:37:46	21:38:22	60.362925	-0.835935	60.363003	-0.836082	56.6	56.6
East of Shetland 2017	SH_V30.08	05/11/2017	21:38:22	21:40:54	60.363003	-0.836082	60.363223	-0.836705	56.6	55.6
East of Shetland 2017	SH_V30.09	05/11/2017	21:40:54	21:43:30	60.363223	-0.836705	60.363723	-0.837437	55.6	53.1
East of Shetland 2017	SH_V30.10	05/11/2017	21:43:30	21:44:09	60.363723	-0.837437	60.363837	-0.837635	53.1	53.9
East of Shetland 2017	SH_V36	06/11/2017	03:44:26	04:23:28	60.453777	-0.953917	60.457195	-0.965357	129.1	140.4
East of Shetland 2017	SH_V38.01	05/11/2017	06:40:18	06:44:14	60.289340	-0.948057	60.290307	-0.948662	65.3	63.8
East of Shetland 2017	SH_V38.02	05/11/2017	06:44:14	06:45:24	60.290307	-0.948662	60.290438	-0.948790	63.8	62.1
East of Shetland 2017	SH_V38.03	05/11/2017	06:45:24	06:46:51	60.290438	-0.948790	60.290613	-0.948917	62.1	62.7
East of Shetland 2017	SH_V38.04	05/11/2017	06:46:51	06:53:14	60.290613	-0.948917	60.291477	-0.949210	62.7	65.3
East of Shetland 2017	SH_V38.05	05/11/2017	06:53:14	06:54:39	60.291477	-0.949210	60.291670	-0.949235	65.3	66.4
East of Shetland 2017	SH_V38.06	05/11/2017	06:54:39	07:17:06	60.291670	-0.949235	60.294562	-0.950188	66.4	65.5
East of Shetland 2017	SH_V38.07	05/11/2017	07:17:06	07:17:18	60.294562	-0.950188	60.294595	-0.950242	65.4	65.1

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
East of Shetland 2017	SH_V38.08	05/11/2017	07:17:18	07:19:25	60.294595	-0.950242	60.294833	-0.950662	65.1	65.2
East of Shetland 2017	SH_V38_2.01	06/11/2017	00:04:46	00:13:00	60.286175	-0.945980	60.287395	-0.946637	69.6	68.5
East of Shetland 2017	SH_V38_2.02	06/11/2017	00:13:00	00:18:46	60.287395	-0.946637	60.288337	-0.947345	68.5	65.5
East of Shetland 2017	SH_V38_2.03	06/11/2017	00:18:46	00:20:34	60.288337	-0.947345	60.288588	-0.947455	65.5	65.4
East of Shetland 2017	SH_V38_2.04	06/11/2017	00:20:34	00:26:01	60.288588	-0.947455	60.289443	-0.947765	65.4	64.7
East of Shetland 2017	SH_V38_2.05	06/11/2017	00:26:01	00:32:37	60.289443	-0.947765	60.290385	-0.948503	64.7	63.3
East of Shetland 2017	SH_V38_2.06	06/11/2017	00:32:37	00:33:23	60.290385	-0.948503	60.290493	-0.948587	63.3	62.5
East of Shetland 2017	SH_V38_2.07	06/11/2017	00:33:23	00:34:36	60.290493	-0.948587	60.290658	-0.948723	62.5	62.8
East of Shetland 2017	SH_V38_2.08	06/11/2017	00:34:36	00:40:46	60.290658	-0.948723	60.291532	-0.949260	62.8	65.4
East of Shetland 2017	SH_V38_2.09	06/11/2017	00:40:46	00:41:50	60.291532	-0.949260	60.291700	-0.949293	65.4	66.0
East of Shetland 2017	SH_V38_2.10	06/11/2017	00:41:50	00:43:34	60.291700	-0.949293	60.291983	-0.949337	66.0	65.6
East of Shetland 2017	SH_V40.01	05/11/2017	05:24:20	05:27:04	60.258447	-1.001737	60.258800	-1.002283	44.1	53.2
East of Shetland 2017	SH_V40.02	05/11/2017	05:27:04	05:28:24	60.258800	-1.002283	60.258958	-1.002522	53.2	55.8
East of Shetland 2017	SH_V40.03	05/11/2017	05:28:24	05:30:26	60.258958	-1.002522	60.259242	-1.002932	55.8	56.7
East of Shetland 2017	SH_V40.04	05/11/2017	05:30:26	05:36:58	60.259242	-1.002932	60.260110	-1.004248	56.7	54.5
East of Shetland 2017	SH_V40.05	05/11/2017	05:36:58	05:41:41	60.260110	-1.004248	60.260708	-1.005412	54.5	46.6
East of Shetland 2017	SH_V40.06	05/11/2017	05:41:41	05:42:55	60.260708	-1.005412	60.260613	-1.005717	46.6	47.8
East of Shetland 2017	SH_V40.07	05/11/2017	05:42:55	05:45:53	60.260613	-1.005717	60.260617	-1.006852	47.8	45.6
East of Shetland 2017	SH_V40.08	05/11/2017	05:45:53	05:46:39	60.260617	-1.006852	60.260715	-1.006923	45.6	45.1
East of Shetland 2017	SH_V40.09	05/11/2017	05:46:39	05:48:34	60.260715	-1.006923	60.261122	-1.007033	45.1	51.2
East of Shetland 2017	SH_V40.10	05/11/2017	05:48:34	05:54:33	60.261122	-1.007033	60.262045	-1.007000	51.2	57.6
East of Shetland 2017	SH_V40.11	05/11/2017	05:54:33	06:03:24	60.262045	-1.007000	60.263307	-1.007542	57.5	55.6
East of Shetland 2017	SH_V41.01	05/11/2017	04:04:04	04:07:52	60.235062	-1.054208	60.235490	-1.055042	51.7	51.5
East of Shetland 2017	SH_V41.02	05/11/2017	04:07:52	04:23:01	60.235490	-1.055042	60.237322	-1.058527	51.5	36.6
East of Shetland 2017	SH_V41.03	05/11/2017	04:23:01	04:24:32	60.237322	-1.058527	60.237500	-1.058887	36.6	38.3
East of Shetland 2017	SH_V41.04	05/11/2017	04:24:32	04:28:48	60.237500	-1.058887	60.238013	-1.059862	38.3	33.5
East of Shetland 2017	SH_V41.05	05/11/2017	04:28:48	04:29:15	60.238013	-1.059862	60.238068	-1.059967	33.5	36.3
East of Shetland 2017	SH_V41.06	05/11/2017	04:29:15	04:30:33	60.238068	-1.059967	60.238233	-1.060262	36.3	37.3
East of Shetland 2017	SH_V41.07	05/11/2017	04:30:33	04:43:08	60.238233	-1.060262	60.239747	-1.063158	37.3	37.5
East of Shetland 2017	SH_V43.01	05/11/2017	02:21:30	02:37:16	60.221623	-0.938460	60.223395	-0.942278	89.8	86.7

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
East of Shetland 2017	SH_V43.02	05/11/2017	02:37:16	02:38:06	60.223395	-0.942278	60.223488	-0.942478	86.7	89.1
East of Shetland 2017	SH_V43.03	05/11/2017	02:38:06	02:44:52	60.223488	-0.942478	60.224258	-0.944140	89.1	90.4
East of Shetland 2017	SH_V43.04	05/11/2017	02:44:52	02:46:21	60.224258	-0.944140	60.224425	-0.944485	90.4	90.3
East of Shetland 2017	SH_V43.05	05/11/2017	02:46:21	03:00:36	60.224425	-0.944485	60.226040	-0.947978	90.3	82.9
East of Shetland 2017	SH_V44.01	05/11/2017	00:31:46	00:33:29	60.092707	-1.036593	60.092992	-1.036460	88.0	89.5
East of Shetland 2017	SH_V44.02	05/11/2017	00:33:29	00:35:27	60.092992	-1.036460	60.093303	-1.036307	89.5	88.5
East of Shetland 2017	SH_V44.03	05/11/2017	00:35:27	00:37:33	60.093303	-1.036307	60.093652	-1.036162	88.5	87.6
East of Shetland 2017	SH_V44.04	05/11/2017	00:37:33	00:38:41	60.093652	-1.036162	60.093832	-1.036072	87.6	87.1
East of Shetland 2017	SH_V44.05	05/11/2017	00:38:41	00:39:35	60.093832	-1.036072	60.093980	-1.035990	87.1	87.3
East of Shetland 2017	SH_V44.06	05/11/2017	00:39:35	00:43:53	60.093980	-1.035990	60.094682	-1.035680	87.3	86.1
East of Shetland 2017	SH_V44.07	05/11/2017	00:43:53	00:44:19	60.094682	-1.035680	60.094743	-1.035653	86.1	86.5
East of Shetland 2017	SH_V44.08	05/11/2017	00:44:19	00:49:34	60.094743	-1.035653	60.095592	-1.035267	86.5	89.3
East of Shetland 2017	SH_V44.09	05/11/2017	00:49:34	00:50:19	60.095592	-1.035267	60.095712	-1.035210	89.3	88.8
East of Shetland 2017	SH_V44.10	05/11/2017	00:50:19	00:54:13	60.095712	-1.035210	60.096353	-1.034905	88.8	88.7
East of Shetland 2017	SH_V44.11	05/11/2017	00:54:13	00:58:22	60.096353	-1.034905	60.097018	-1.034610	88.7	87.4
East of Shetland 2017	SH_V44.12	05/11/2017	00:58:22	00:59:10	60.097018	-1.034610	60.097150	-1.034552	87.4	88.2
East of Shetland 2017	SH_V44.13	05/11/2017	00:59:10	01:04:17	60.097150	-1.034552	60.097983	-1.034192	88.2	87.7
East of Shetland 2017	SH_V44.14	05/11/2017	01:04:17	01:10:52	60.097983	-1.034192	60.099048	-1.033672	87.7	86.7
East of Shetland 2017	SH_V46.01	04/11/2017	23:03:26	23:06:40	60.058518	-1.102447	60.059045	-1.102427	81.3	80.6
East of Shetland 2017	SH_V46.02	04/11/2017	23:06:40	23:08:28	60.059045	-1.102427	60.059367	-1.102428	80.6	80.4
East of Shetland 2017	SH_V46.03	04/11/2017	23:08:28	23:22:49	60.059367	-1.102428	60.061747	-1.102387	80.4	82.4
East of Shetland 2017	SH_V46.04	04/11/2017	23:22:49	23:43:31	60.061747	-1.102387	60.065188	-1.102325	82.4	83.5
East of Shetland 2017	SH_V47	06/11/2017	05:11:07	05:49:33	60.415225	-1.002698	60.414168	-1.015428	120.9	121.6
East of Shetland 2017	SH_V48.01	04/11/2017	21:39:36	21:44:50	60.015990	-1.126688	60.014835	-1.126500	68.8	68.7
East of Shetland 2017	SH_V48.02	04/11/2017	21:44:50	21:47:04	60.014835	-1.126500	60.014343	-1.126430	68.7	68.7
East of Shetland 2017	SH_V48.03	04/11/2017	21:47:04	21:47:29	60.014343	-1.126430	60.014250	-1.126412	68.7	67.5
East of Shetland 2017	SH_V48.04	04/11/2017	21:47:29	21:52:12	60.014250	-1.126412	60.013207	-1.126250	67.5	68.9
East of Shetland 2017	SH_V48.05	04/11/2017	21:52:12	22:05:02	60.013207	-1.126250	60.010368	-1.125832	68.9	63.4
East of Shetland 2017	SH_V48.06	04/11/2017	22:05:02	22:05:44	60.010368	-1.125832	60.010210	-1.125810	63.4	64.1
East of Shetland 2017	SH_V48.07	04/11/2017	22:05:44	22:10:59	60.010210	-1.125810	60.009047	-1.125625	64.1	66.6

Annex 3 continued

Survey	Video sample	Date	Time start (UT)	Time end (UT)	Start latitude	Start longitude	End latitude	End longitude	Depth CD start (m)	Depth CD end (m)
East of Shetland 2017	SH_V48.08	04/11/2017	22:10:59	22:18:16	60.009047	-1.125625	60.007833	-1.125500	66.6	71.1
East of Shetland 2017	SH_V5/6.01	06/11/2017	12:44:52	12:51:13	60.428978	-0.878425	60.427992	-0.879005	51.8	51.7
East of Shetland 2017	SH_V5/6.02	06/11/2017	12:51:13	12:52:46	60.427992	-0.879005	60.427805	-0.879193	51.7	52.0
East of Shetland 2017	SH_V5/6.03	06/11/2017	12:52:46	13:05:20	60.427805	-0.879193	60.425468	-0.878865	52.0	51.2
East of Shetland 2017	SH_V50.01	06/11/2017	11:17:09	11:20:13	60.412085	-0.906882	60.411407	-0.907152	41.3	42.1
East of Shetland 2017	SH_V50.02	06/11/2017	11:20:13	11:20:27	60.411407	-0.907152	60.411352	-0.907198	42.1	42.0
East of Shetland 2017	SH_V50.03	06/11/2017	11:20:27	11:21:12	60.411352	-0.907198	60.411232	-0.907320	42.0	40.9
East of Shetland 2017	SH_V50.04	06/11/2017	11:21:12	11:25:13	60.411232	-0.907320	60.410685	-0.907508	40.9	38.2
East of Shetland 2017	SH_V50.05	06/11/2017	11:25:13	11:30:13	60.410685	-0.907508	60.409697	-0.907493	38.2	38.4
East of Shetland 2017	SH_V50.06	06/11/2017	11:30:13	11:36:09	60.409697	-0.907493	60.408297	-0.907557	38.4	40.0
East of Shetland 2017	SH_V50.07	06/11/2017	11:36:09	11:36:39	60.408297	-0.907557	60.408192	-0.907530	40.0	40.2
East of Shetland 2017	SH_V50.08	06/11/2017	11:36:39	11:37:19	60.408192	-0.907530	60.408042	-0.907510	40.2	37.8

ANNEX 4: PHYSICAL AND BIOLOGICAL DESCRIPTIONS OF THE SURVEY SITES, WITH INDICATORS OF CONSERVATION IMPORTANCE OF HABITATS AND SPECIES

Sample codes correspond with those in Annex 3. PMF codes (in black) and Protected Feature codes (in red) and Habitat Directive Annex I codes are defined in Annex 6. Uncertain biotope assignments are italicized.

Video sample	Substrate	Biota	Biotores	Annex 1 habitat	PF/PMF
S2_V1_17.01	Medium-coarse sand (70%) with shell gravel (28%) and shells (2%) including <i>Ensis</i> .	Very sparse thalli of live maerl (R, <1%). Tufts (O) of filiform/filamentous algae, hydroids including <i>Nemertesia antennina</i> (R), and possibly bryozoans. <i>Pecten maximus</i> (P), <i>Henricia</i> sp. (P), <i>Luidia ciliaris</i> (F). <i>Echinus esculentus</i> (O), pink encrusting coralline algae (R).	SS.SCS.CCS	SB:GS	
S2_V1_17.02	Sand-scoured and dusted bedrock with patches of sand (1%).	Dense turf of bryozoans and hydroids (S) with <i>Flustra foliacea</i> (O) and <i>Securiflustra securifrons</i> (C) and foliose red algae (P). <i>Cliona celata</i> (R), <i>Antedon</i> spp. (P), encrusting pink coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S2_V1_17.03	Coarse sand and gravel.	No biota discernible.	SS.SCS.CCS	SB:GS	
S2_V1_17.04	Sand-scoured and dusted bedrock.	Dense turf of bryozoans and hydroids (S) with <i>Flustra foliacea</i> (O) and <i>Securiflustra securifrons</i> (A). <i>Cliona celata</i> (R), <i>Axinella infundibuliformis</i> (R), <i>Alcyonium digitatum</i> (R), <i>Caryophyllia smithii</i> (F locally), <i>Urticina</i> sp.? (P), <i>Sagartia troglodytes?</i> (P), <i>Corynactis viridis</i> (P), <i>Antedon</i> spp. (C locally), <i>Luidia ciliaris</i> (O), <i>Porania pulvillus</i> (P), encrusting pink coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S2_V1_17.05	Medium-coarse sand (70%) with shell gravel (30%) and shells (<1%) including <i>Ensis</i> .	Very sparse thalli of live maerl (R, <1%). Tufts (R) of filiform/filamentous algae and hydroids (R) including <i>Nemertesia antennina</i> (R), and possibly bryozoans. <i>Alcyonium digitatum</i> (R), pink encrusting coralline algae (R).	SS.SCS.CCS	SB:GS	
S2_V1_17.06	Sand-scoured and dusted bedrock with patches of sand (2%).	Dense turf of bryozoans and hydroids (S) with <i>Nemertesia antennina</i> (P), <i>Flustra foliacea</i> (O) and <i>Securiflustra securifrons</i> (A) and red algal turf (F, at least locally). Very small <i>Laminaria hyperborea</i> apparently present but overall at low density. <i>Cliona celata</i> (R), <i>Alcyonium digitatum</i> (R), <i>Caryophyllia smithii</i> (C locally), <i>Antedon</i> spp. (A locally), <i>Marthasterias fglacialis</i> (P), encrusting pink coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S2_V1_17.07	Medium-coarse sand with around 40% shell gravel cover.	Very sparse thalli of live maerl (R, <1%). Tufts of hydroids (R), <i>Henricia</i> sp. (P).	SS.SCS.CCS	SB:GS	
S2_V1_17.08	Sand-scoured and dusted bedrock.	Dense turf of bryozoans and probably hydroids (S) with <i>Securiflustra securifrons</i> (A). <i>Caryophyllia smithii</i> (F), encrusting pink coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S2_V1_17.09	Medium-coarse sand with around 40% shell gravel cover and small bedrock outcrop (<1%).	Very sparse thalli of live maerl (R, <1%). Tufts of hydroids? (R).	SS.SCS.CCS	SB:GS	
S2_V1_17.10	Sand-scoured and dusted bedrock with patches of sand (5%).	Poor visibility but dense turf of bryozoans including <i>Flustra foliacea</i> (P) and <i>Securiflustra securifrons</i> (A) and probably hydroids. <i>Cliona celata</i> (R), <i>Asterias rubens</i> (P).	CR.HCR.XFa.FluCoAs	RF:BR	
S2_V1_17.11	Medium-coarse sand with around 30% shell gravel cover. Camera skirts boulder (<1%) and bedrock (<1%).	Very sparse thalli of live maerl (R, <1%). Tufts of hydroids? (R) and/or filamentous algae? (R), <i>Cancer pagurus</i> (O), encrusting pink coralline algae (R), emergent infaunal tube?.	SS.SCS.CCS	SB:GS	
S2_V2_17.01	Coarse sand with around 35% shell gravel cover and scattered shells (2%) including <i>Ensis</i> . Sediment mostly fairly flat with megaripples locally.	Very sparse thalli of live maerl (R, <1%). Tufts of hydroids (R) including <i>Nemertesia antennina</i> and red algae (R). <i>Lanice conchilega?</i> (P), <i>Liocarcinus depurator</i> (P), <i>Atelecyclus rotundatus</i> (P), <i>Brachyura</i> sp. (P), <i>Ensis</i> sp.? siphons (P), <i>Henricia</i> sp. (R), infaunal tubes (P). Shells encrusted with serpulid worms (R), pink coralline (R) and red (R) algae.	SS.SCS.CCS	SB:GS	
S2_V2_17.02	Sand-scoured and dusted bedrock.	Poor visibility but dense turf of bryozoans including <i>Flustra foliacea</i> (P) and <i>Securiflustra securifrons</i> (F), foliose red algae (P) and probably hydroids. <i>Cliona celata</i> (R), <i>Luidia ciliaris</i> (P).	CR.HCR.XFa.FluCoAs	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S2_V2_17.03	Megaripples of coarse sand (49%) and shell gravel (49%) with small patches of outcropping bedrock (2%).	Hydroid and/or bryozoan clumps (O).	SS.SCS.CCS	SB:GS	
S2_V2_17.04	Sand-scoured and dusted bedrock with patches of sand (5%).	Park of small <i>Laminaria hyperborea</i> (C) with understory turf of red algae (A) and fauna (P). <i>Cliona celata</i> (R), <i>Pecten maximus</i> (P), <i>Luidia ciliaris</i> (F).	IR.HIR.KSed.XKScrR	RF:BR	
S2_V2_17.05	Coarse sand and shell gravel.	Hydroid and/or bryozoan clumps (O).	SS.SCS.CCS	SB:GS	
S2_V2_17.06	Sand-scoured and dusted bedrock with patches of sand (5%).	Poor visibility. Park of small <i>Laminaria hyperborea</i> (F) with understory turf (S) of red algae, <i>Dictyota dichotoma</i> (O), bryozoans and hydroids. <i>Cliona celata</i> (R), <i>Urticina</i> sp. (P), <i>Asterias rubens?</i> (P).	IR.HIR.KSed.XKScrR	RF:BR	
S2_V3_17.01	Coarse sand (49%) and shell gravel (49%) with scattered shells (2%).	Hydroid clumps (O), infaunal tubes (P). Shells encrusted with serpulid worms (R) and pink coralline algae (R). Sparse live maerl thalli (<1%, R).	SS.SCS.CCS	SB:GS	
S2_V3_17.02	Sand-scoured and heavily-dusted bedrock.	Dense faunal turf (S) including <i>Flustra foliacea</i> (F). Pink encrusting coralline algae (O).	CR.HCR.XFa.FluCoAs	RF:BR	
S2_V3_17.03	Medium-coarse sand (60%) and shell gravel (39%) with scattered shells (1%) including <i>Ensis</i> .	Hydroid clumps (O), red algal clumps (R), <i>Ophiura ophiura</i> (R), <i>Astropecten irregularis</i> (R), infaunal tubes (P). Shells encrusted with serpulid worms (R) and pink coralline algae (R). Sparse live maerl thalli (<1%, R).	SS.SCS.CCS	SB:GS	
S2_V3_17.04	Sand-scoured and dusted bedrock.	Poor visibility but dense turf of bryozoans and probably hydroids including <i>Flustra foliacea</i> (O) and <i>Securiflustra securifrons</i> (C). <i>Cliona celata</i> (R), <i>Urticina</i> sp. (P), encrusting pink coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S2_V3_17.05	Medium-coarse sand (60%) and shell gravel (39%) with scattered shells (1%) including <i>Ensis</i> ; cobbles (<1%). Camera skirts bedrock outcrop (<1%).	Hydroid clumps (O), red algal clumps (R), infaunal tubes (P), bivalve siphons? (P). Shells and stones encrusted with pink coralline algae (R) and red algae (R). Sparse live maerl thalli (<1%, R).	SS.SCS.CCS	SB:GS	
S2_V3_17.06	Sand-scoured and dusted bedrock.	Poor visibility but dense turf of bryozoans and probably hydroids including <i>Flustra foliacea</i> (P) and <i>Securiflustra securifrons</i> (C). <i>Cliona celata</i> (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S2_V3_17.07	Megaripples of coarse sand (49%) and shell gravel (49%) with shells (2%).	Hydroid clumps (R) including <i>Nemertesia antennina</i> . Shells encrusted with <i>Spirobranchus</i> spp. (R), pink coralline algae (R) and red algae (R). <i>Luidia ciliaris</i> (P), sparse live maerl thalli (<1%, R).	SS.SCS.CCS	SB:GS	
S2_V3_17.08	Sand-scoured and dusted bedrock with sand patch (1%).	Dense turf (S) of bryozoans including <i>Securiflustra securifrons</i> (C), hydroids including <i>Nemertesia antennina</i> (P), and foliose red algae (P). <i>Cliona celata</i> (R), <i>Alcyonium digitatum</i> (R), <i>Urticina</i> sp. (P), <i>Caryophyllia smithii</i> (F), <i>Luidia cilairis</i> (P), pink encrusting coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S2_V3_17.09	Sand-scoured bedrock.	Park of small <i>Laminaria hyperborea</i> (C) and <i>Saccharina latissima</i> (P) with understory of red algae (A) including <i>Delesseria sanguinea</i> (P), and <i>Dictyota dichotoma</i> (F). <i>Clione celata</i> (R), hydroid spp. (P), <i>Alcyonium digitatum</i> (R), <i>Urticina</i> sp. (P), <i>Securiflustra securifrons</i> (P), <i>Antedon</i> spp. (locally C), <i>Luidia ciliaris</i> (F).	IR.HIR.KSed.XKScrR	RF:BR	
S2_V3_17.10	Megaripples of coarse sand and shell gravel with shells (2%).	Pink encrusting coralline algae (R).	SS.SCS.CCS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S2_V3_17.11	Sand-scoured bedrock.	Kelp park (F) of small <i>Laminaria hyperborea</i> (P) and <i>Saccharina latissima</i> (P) with turf of foliose red algae (C), <i>Dictyota dichotoma</i> (P) and hydroids. <i>Clione celata</i> (R), branching sponge (P), <i>Urticina</i> sp. (P), <i>Caryophyllia smithii</i> (F locally), <i>Antedon</i> spp. (locally C), <i>Asterias rubens</i> (P), <i>Ascidia virginea</i> (P), encrusting pink coralline algae (R).	IR.HIR.KSed.XKScrR	RF:BR	
S2_V3_17.12	Coarse sand (50%) and shell gravel (49%) with scattered shells (1%).	<i>Pecten maximus</i> (F), hydroid/algal tufts (R), pink encrusting coralline algae (R).	SS.SCS.CCS	SB:GS	
S2_V3_17.13	Sand-scoured and dusted bedrock.	Park of small <i>Laminaria hyperborea</i> (C) and <i>Saccharina latissima</i> (P) with understory of red algae (C), <i>Dictyota dichotoma</i> (P), hydroids including <i>Nemertesia antennina</i> (P) and bryozoans including <i>Securiflustra securifrons</i> (P) and <i>Flustra foliacea</i> (P). <i>Clione celata</i> (R), <i>Alcyonium digitatum</i> (R), <i>Alcyonidium diaphanum</i> (P), <i>Echinus esculentus</i> (P), pink encrusting coralline algae (R).	IR.HIR.KSed.XKScrR	RF:BR	
S2_V4_17.01	Coarse sand (50%) and shell gravel (49%) with scattered shells (1%) including <i>Ensis</i> . Small area of superficial cover of bedrock.	Hydroid/algal tufts (O), <i>Alcyonium digitatum</i> (R), <i>Ophiura</i> sp. (P), pink encrusting coralline algae (R).	SS.SCS.CCS	SB:GS	
S2_V4_17.02	Mosaic of sand-scoured and heavily-dusted bedrock (75%) with patches and narrow channels of coarse sand and shell gravel.	Turf of hydroids and bryozoans (S) including <i>Flustra foliacea</i> (O), <i>Pentapora foliacea</i> (P) and <i>Securiflustra securifrons</i> (C), with foliose red algae (O). <i>Cliona celata</i> (R), yellow branching sponge (R), <i>Alcyonium digitatum</i> (R), <i>Caryophyllia smithii</i> (C), <i>Munida rugosa</i> (P), <i>Pecten maximus</i> (P), <i>Porania pulvillus</i> (P), <i>Echinus esculentus</i> (P), <i>Diazona violacea?</i> (R). Rock encrusted with serpulid worms (P), pink coralline algae (O) and red algae (R). Sparse thalli of live maerl (<1%, R).	CR.HCR.XFa.FluCoAs, SS.SCS.CCS	RF:BR, SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S2_V4_17.03	Coarse sand (90%) and shell gravel (10%).	Hydroid/algal tufts (O), <i>Pecten maximus</i> (P), <i>Marthasterias glacialis</i> (P), pink encrusting coralline algae (R), live maerl (<1%, R).	SS.SCS.CCS	SB:GS	
S2_V4_17.04	Mosaic of sand-scoured and heavily-dusted bedrock (90%) with patches and narrow channels of medium-coarse sand and shell gravel (10%).	Turf of hydroids and bryozoans (S) including <i>Flustra foliacea</i> (O), and <i>Securiflustra securifrons</i> (A). <i>Cliona celata</i> (R), <i>Pecten maximus</i> (P), <i>Luidia ciliaris</i> (P). Rock encrusted with pink coralline algae (O).	CR.HCR.XFa.FluCoAs, SS.SCS.CCS	RF:BR, SB:GS	
S2_V4_17.05	Coarse sand (85%) and shell gravel (15%).	Hydroid/algal tufts (O), <i>Pecten maximus</i> (P), <i>Marthasterias glacialis</i> (P).	SS.SCS.CCS	SB:GS	
S2_V4_17.06	Sand-scoured and dusted bedrock with small patches of coarse sediment (5%).	Turf of hydroids including <i>Nemertesia antennina</i> (P) and bryozoans (S) including <i>Flustra foliacea</i> (P) and <i>Securiflustra securifrons</i> (A), with foliose red algae (R). <i>Caryophyllia smithii</i> (locally F), <i>Liocarcinus</i> sp. (P), <i>Luidia ciliaris</i> (P), Asteroidea sp. (P), . Live maerl (<1%, R).	CR.HCR.XFa.FluCoAs	RF:BR	
S2_V4_17.07	Medium-coarse sand (85%) and shell gravel (15%) with scattered shells (<1%) including <i>Ensis</i> . Small area of superficial cover of bedrock.	Hydroid/algal tufts (O), infaunal tubes (P), pink encrusting coralline algae (R), live maerl <1%, R).	SS.SCS.CCS	SB:GS	
S2_V4_17.08	Small sand-scoured bedrock outcrop.	Poor visibility but apparently dense faunal turf of hydroids and bryozoans (S).	CR.HCR.XFa.FluCoAs	RF:BR	
S2_V4_17.09	Megarippled coarse sand and shell gravel.	Poor visibility. No biota discernible.	SS.SCS.CCS	SB:GS	
S2_V4_17.10	Sand-scoured and dusted bedrock with small patches of coarse sediment (1%).	Turf of hydroids and bryozoans (S) including <i>Securiflustra securifrons</i> (F) and <i>Alcyonidium diaphanum</i> (P), with foliose red algae (O). <i>Cliona celata</i> (R), <i>Caryophyllia smithii</i> (locally F), <i>Brachyura</i> sp. (P), <i>Aplysia punctata</i> (locally F), <i>Antedon</i> spp. (P), <i>Marthasterias glacialis</i> (P), <i>Luidia ciliaris</i> (P), encrusting pink coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S2_V4_17.11	Megarippled coarse sand and shell gravel.	Poor visibility. Encrusting pink coralline algae (R).	SS.SCS.CCS	SB:GS	
S2_V4_17.12	Sand-scoured and dusted bedrock with small patches of coarse sediment (5%).	Turf of hydroids and bryozoans (S) including <i>Securiflustra securifrons</i> (F) and <i>Flustra foliacea</i> (R), with foliose red algae (O). <i>Cliona celata</i> (R), <i>Caryophyllia smithii</i> (locally F), <i>Galathea</i> sp. (P), <i>Aplysia punctata</i> (P), <i>Asterias rubens?</i> (P), encrusting pink coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S2_V4_17.13	Coarse sand and shell gravel.	Poor visibility. <i>Pecten maximus</i> (P), <i>Henricia</i> sp. (P).	SS.SCS.CCS	SB:GS	
S2_V4_17.14	Sand-scoured and dusted bedrock with small patches of coarse sediment (5%).	Park of small <i>Laminaria hyperborea</i> (C) and <i>Saccharina latissima</i> (P) with understorey of red algae (C), <i>Dictyota dichotoma</i> (P) and bryozoans including <i>Securiflustra securifrons</i> (P) and <i>Flustra foliacea</i> (P). <i>Alcyonium digitatum</i> (R), <i>Caryophyllia smithii</i> (locally F), <i>Antedon</i> spp. (C locally), <i>Luidia ciliaris</i> (P), pink encrusting coralline algae (R).	IR.HIR.KSed.XKScrR	RF:BR	
S3_V1_17.01	Megaripples of coarse sand and shell gravel with shells in troughs.	Poor visibility but some live maerl present but sparse (c.1%, R). Camera briefly skirts bedrock outcrop.	SS.SCS.CCS	SB:GS	
S3_V1_17.02	Sand-scoured and dusted bedrock.	Park of <i>Saccharina latissima</i> (F) and understorey turf (S) of hydroids, bryozoans including <i>Flustra foliacea</i> and red algae (C). Rock also supports <i>Cliona celata</i> (R), <i>Alcyonium digitatum</i> (R) and pink encrusting coralline algae (R). <i>Antedon</i> spp. (F, at least locally), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (P).	IR.HIR.KSed.XKScrR	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S3_V1_17.03	Megaripples of coarse sand (25%), shell gravel (40%) and maerl gravel (20%) with live maerl (10%) and shells (5%) concentrated in troughs but maerl also scattered over crests. Camera skirts bedrock (<1%).	Live maerl (c.10%, F), scattered tufts of hydroids/filamentous algae (O), <i>Asterias rubens</i> (F), encrusting pink coralline algae (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S3_V1_17.04	Sand-scoured and dusted bedrock.	Park of <i>Saccharina latissima</i> (F) and <i>Laminaria hyperborea</i> (P) with understorey turf (S) of bryozoans including <i>Flustra foliacea</i> and red algae (F). Pink encrusting coralline algae (R), <i>Echinus esculentus</i> (P).	IR.HIR.KSed.XKScrR	RF:BR	
S3_V1_17.05	Megarippled coarse sediment.	Very poor visibility but probably live maerl present (F).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S3_V1_17.06	Sand-scoured and dusted bedrock.	Park of small <i>Laminaria hyperborea</i> (C) and <i>Saccharina latissima</i> (P) and understorey turf (C) of bryozoans including <i>Flustra foliacea</i> (P), red algae (F) and probably hydroids. Rock also supports <i>Cliona celata</i> (R) and pink encrusting coralline algae (R). <i>Antedon</i> spp. (P), <i>Marthasterias glacialis</i> (P), <i>Echinus esculentus</i> (P).	IR.HIR.KSed.XKScrR	RF:BR	
S3_V1_17.07	Megaripples of coarse sand (40%) and shell gravel (40%) with live maerl (15%) and shells (5%) concentrated in troughs but maerl also scattered over crests.	Live maerl (c.15%, F), <i>Pecten maximus</i> (P).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S3_V1_17.08	Sand-scoured and dusted bedrock.	Park of small <i>Laminaria hyperborea</i> (F) and <i>Saccharina latissima</i> (F) and understory turf (C) of bryozoans including <i>Flustra foliacea</i> (P), red algae (F) and probably hydroids. Rock also supports <i>Cliona celata</i> (R) and pink encrusting coralline algae (R). <i>Antedon</i> spp. (P).	IR.HIR.KSed.XKScrR	RF:BR	
S3_V1_17.09	Megaripples of sand (30%), maerl gravel (35%) and shell gravel (20%) with live maerl (10%) and shells (5%) concentrated in troughs but maerl also scattered over crests.	Live maerl (c.10%, F), scattered tufts of hydroids? (O), <i>Cancer pagurus</i> ? (P), <i>Asterias rubens</i> (F), pink encrusting coralline algae (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S3_V1_17.10	Slightly rippled fine-medium sand (80%) with surface scatter of live maerl (c.1%), dead maerl (5%), shell gravel (5%) and shells and large shell material (9%).	Sediment with small mounds and film of brown detrital material or diatoms (C). Shells with serpulid worms (R), pink encrusting coralline algae (R) and tufts of hydroids/filamentous algae (P). <i>Turritella communis</i> ? (R), live maerl (c.1%, R), scattered kelp material including some apparently live <i>Saccharina latissima</i> (P).	SS.SCS./CS	SB:GS	
S3_V2_17.01	Megaripples of slightly silty sand (mostly fine) (24%), maerl gravel (35%) and shell gravel (35%) with live maerl (c.1%) and shells (5%).	Live maerl (c.1%, R), scattered tufts of hydroids/algae? (O), <i>Asterias rubens</i> (F), pink encrusting coralline algae (R).	SS.SCS.CCS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S3_V2_17.02	Fine-medium sand (85%) slightly rippled in places with surface scatter of coarse sand (5%), live maerl (<1%), shell gravel (10%, locally denser), pebbles (<1%), cobbles (<1%) and shells (<1%) including <i>Ensis</i> .	Sediment with coating of brown detrital material and possibly diatoms (C) and emergent infaunal tubes (P). Shells and stones with pink encrusting coralline algae (R) and tufts of hydroids and possibly algae (O). Live maerl (<1%, R), <i>Liocarcinus depurator</i> (P), <i>Cancer pagurus</i> (P), <i>Pecten maximus</i> (R), <i>Asterina gibbosa?</i> (P), <i>Asterias rubens</i> (P), <i>Raja montagui?</i> (O).	SS.SCS.ICS	SB:GS	
S3_V3_17.01	Megarippled coarse sand (65%) and shell gravel (30%) with shells (4%) and live maerl (1%).	Sparse live maerl (probably around 1%, R). Clumps of hydroids/algae (O), pink encrusting coralline algae (R).	SS.SCS.CCS	SB:GS	
S3_V3_17.02	Sand-scoured and dusted bedrock.	Poor visibility but rock with a dense faunal turf (S) including <i>Flustra foliacea</i> (F). <i>Cliona celata</i> (R), small <i>Laminaria hyperborea</i> (P) but kelp is probably largely drift material.	CR.HCR.XFa.FluCoAs	RF:BR	
S3_V3_17.03	Megarippled coarse sand (62%), shell gravel (20%) and maerl gravel (10%) with shells (5%) and live maerl (3%) concentrated in troughs.	Sparse live maerl (probably around 3%, R). Clumps of hydroids/algae (O), serpulid worms (R).	SS.SCS.CCS	SB:GS	
S3_V3_17.04	Sand-scoured and dusted bedrock with coarse sand patches (5%)..	Poor visibility but rock with a dense faunal turf (S). <i>Laminaria hyperborea</i> (O) but probably drift material.	CR.HCR.XFa.FluCoAs	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S3_V3_17.05	Megarippled coarse sand (77%), shell gravel (10%) and maerl gravel (5%) with shells (5%) and live maerl (3%) concentrated in troughs.	Sparse live maerl (probably around 3%, R). Clumps of hydroids/algae (O), <i>Cancer pagurus</i> (P), <i>Asterias rubens</i> (F), pink encrusting coralline algae (R).	SS.SCS.CCS	SB:GS	
S3_V3_17.06	Sand-scoured and dusted bedrock.	Poor visibility but rock with a dense faunal turf (S) including <i>Flustra foliacea</i> (P). <i>Urticina</i> sp. (P), pink encrusting coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S3_V3_17.07	Fine-medium sand (89%) with surface scatter of live maerl (c.1%) and shell gravel (10%).	Sediment with dusting of brown detrital material locally (P). <i>Cerianthus lloydii</i> (P), <i>Cancer pagurus</i> ? (P), pink encrusting coralline algae (R).	SS.SCS.ICS	SB:GS	
S3_V3_17.08	Sand-scoured and dusted bedrock.	Poor visibility but rock with a dense faunal turf (S) and foliose red algae (R). <i>Cliona celata</i> (R), <i>Urticina</i> sp. (P), pink encrusting coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S3_V3_17.09	Fine-medium sand (85%) with surface scatter of shell gravel (10%, greater locally), shells (5%) and live maerl (<1%).	Sediment with dusting of brown detrital material or diatoms (F, locally C) and emergent infaunal tubes. <i>Cerianthus lloydii</i> (P), <i>Cancer pagurus</i> (O), <i>Pecten maximus</i> (P), shells with serpulid worms (R), pink encrusting coralline algae (R) and tufts of algae/hydroids (O).	SS.SCS.ICS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S3_V4_17.01	Megarippled coarse sand (40%), shell gravel (35%) and maerl gravel (10%) with shells (5%) and live maerl (10%) concentrated in troughs.	Live maerl possibly reaching 10% (F) at least locally. Clumps of hydroids/algae (O), serpulid worms (R), encrusting pink coralline (R) and red (R) algae.	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S3_V4_17.02	Sand-scoured and dusted bedrock (98%) with small sediment patches of shell gravel (1%) and coarse sand (1%).	Poor visibility but rock with faunal turf (A) of hydroids and bryozoans including <i>Flustra foliacea</i> (P) and red algal turf (F). <i>Cliona celata</i> (R), <i>Pecten maximus</i> (P), <i>Antedon</i> spp. (locally C), <i>Luidia ciliaris</i> (P), pink encrusting coralline algae (R). Some sediment patches with significant quantities of live maerl.	CR.HCR.XFa.FluCoAs	RF:BR	
S3_V4_17.03	Coarse sand (25%), shell gravel (55%) and maerl gravel (5%) with shells (5%) and live maerl (10%).	Live maerl possibly reaching 10% (F) at least locally. Clumps of hydroids/algae (O), serpulid worms (O), <i>Antedon</i> sp. (P), encrusting pink coralline (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S3_V4_17.04	Sand-scoured and dusted bedrock.	Poor visibility but rock with faunal turf (A).	CR.HCR.XFa.FluCoAs	RF:BR	
S3_V4_17.05	Coarse sand (42%), shell gravel (35%) and maerl gravel (5%) with shells (8%) and live maerl (10%).	Live maerl possibly reaching 10% (F) at least locally, although much sparser locally. Clumps of hydroids/algae (O), serpulid worms (O), <i>Antedon</i> sp. (P), encrusting pink coralline (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S3_V4_17.06	Sand-scoured and dusted bedrock.	Poor visibility but rock with faunal turf (A) of hydroids and bryozoans including <i>Flustra foliacea</i> (P) and red algal turf (F). <i>Cliona celata</i> (R, locally O), <i>Antedon</i> spp. (locally C), <i>Luidia ciliaris</i> (P), <i>Asterias rubens</i> (P), pink encrusting coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S3_V4_17.07	Coarse sand and shell gravel.	Poor visibility. <i>Pecten maximus</i> (P). Sparse live maerl may be present.	SS.SCS.CCS	SB:GS	
S3_V4_17.08	Sand-scoured and dusted bedrock with small coarse sediment pockets (<1%).	Poor visibility but rock with faunal turf (A) of hydroids and bryozoans including <i>Flustra foliacea</i> (P) and red algal turf (F-C). <i>Cliona celata</i> (R), <i>Luidia ciliaris</i> (F), pink encrusting coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S3_V4_17.09	Faintly-rippled fine-medium sand (90%) with scattered coarse sand (2%), shell gravel (5%), live maerl (2%) and shells (1%).	Sediment with dusting of brown detrital material or diatoms (F, locally C). <i>Myxicola infundibulum?</i> (P), shells with serpulid worms (R), pink encrusting coralline algae (R) and tufts of algae/hydroids (O).	SS.SCS./CS	SB:GS	
S4_V1_17.01	Megarippled coarse sand (50%), shell gravel (25%) and maerl gravel (5%) with shells (5%) and live maerl (15%) concentrated in troughs.	Live maerl around 15% (F). Clumps of hydroids/algae (O), serpulid worms (O), <i>Asterias rubens</i> (P), encrusting pink coralline (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V1_17.02	Fine-medium sand with scattered shells (2%). Camera skirts bedrock outcrop.	Outcrop with faunal turf but no biota discernible on sediment.	SS.SCS./CS	SB:GS	
S4_V1_17.03	Heavily sand-dusted bedrock.	Poor visibility. Rock supports dense faunal turf (S).	CR.HCR.XFa.FluCoAs	RF:BR	
S4_V1_17.04	Coarse sand with shell gravel and scattered shells.	Poor visibility. No biota discernible.	SS.SCS.CCS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S4_V1_17.05	Heavily sand-dusted bedrock.	Poor visibility. Rock supports dense faunal turf (S) and occasional <i>Saccharina latissima</i> and small <i>Laminaria hyperborea</i> . Scattered live maerl on rock (c.5%), <i>Urticina</i> sp. (P).	IR.HIR.KSed.XKScrR	RF:BR	
S4_V1_17.06	Slightly silty fine-medium sand (90%) with scattered coarse sand (5%) and shell gravel (5%).	Live maerl (<1%, R), <i>Pecten maximus</i> (P).	SS.SCS.ICS	SB:GS	
S4_V1_17.07	Heavily sand-dusted bedrock.	Poor visibility. Rock supports dense faunal turf (S) and red algae (F) and occasional small <i>Laminaria hyperborea</i> .	IR.HIR.KSed.XKScrR	RF:BR	
S4_V1_17.08	Slightly rippled fine-medium sand (90%) with scattered coarse sand (5%) and shell gravel (5%).	Live maerl (<1%, R), <i>Luidia ciliaris</i> (P), detrital or diatom film (C).	SS.SCS.ICS	SB:GS	
S4_V1_17.09	Megarippled coarse and medium sand (75%), shell gravel (10%) with shells (5%) and live maerl (10%) concentrated in troughs.	Live maerl around 10% (F). <i>Pecten maximus</i> (F).	SS.SMp.Mri.Pcal.Nmix	SB:MB	MB
S4_V1_17.10	Heavily sand-dusted bedrock.	Rock supports dense faunal turf (S) including <i>Flustra foliacea</i> (P), red algae (F) and sparse <i>Saccharina latissima</i> and small <i>Laminaria hyperborea</i> . Pink encrusting coralline algae (R).	IR.HIR.KSed.XKScrR	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S4_V1_17.11	Megarippled coarse sand (60%), shell gravel (20%) and maerl gravel (5%) with shells (5%) including <i>Ensis</i> , and live maerl (10%) concentrated in troughs initially.	Live maerl around 10% (F) but sparse in patches. Shell material encrusted with pink coralline algae (R) and supporting scattered tufts of hydroids/algae (O), although initially denser and possibly including bryozoans where sediment layer probably superficial. <i>Ophiura</i> sp. (P), <i>Luidia ciliaris</i> (P).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V1_17.12	Heavily sand-dusted bedrock.	Poor visibility. Rock supports dense faunal turf (S) including <i>Flustra foliacea</i> (P) and red algae (F) and occasional small <i>Laminaria hyperborea</i> and <i>Saccharina latissima</i> .	IR.HIR.KSed.XKScrR	RF:BR	
S4_V1_17.13	Megarippled sand and shell gravel with shells (5%) and live maerl (10%) concentrated in troughs.	Poor visibility but live maerl probably around 10% (F).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V1_17.14	Sand-dusted bedrock.	Poor visibility. Rock supports <i>Cliona celata</i> (R) and dense faunal turf (S) and occasional small <i>Laminaria hyperborea</i> .	IR.HIR.KSed.XKScrR	RF:BR	
S4_V1_17.15	Megarippled coarse sand (60%), shell gravel (15%) and maerl gravel (5%) with shells (5%) including <i>Ensis</i> , and live maerl (15%). Some flatter areas and small bedrock patches.	Live maerl around 15% (F) but locally possibly 20% (C). Shell material encrusted with pink coralline algae (R) and supporting scattered tufts of hydroids/algae (O). Small holes in sediment, <i>Asterias rubens</i> (P), <i>Henricia</i> sp. (P).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V1_17.16	Scoured bedrock with small channel of coarse sediment (3%).	Rock with faunal turf (A) and frequent small <i>Laminaria hyperborea</i> .	IR.HIR.KSed.XKScrR	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S4_V1_17.17	Fine-medium sand with scattered shells (1%) and live maerl (<1%). Camera skirts bedrock.	Sparse live maerl thalli (<1%). Detrital or diatom film (F).	SS.SCS./CS	SB:GS	
S4_V1_17.18	Megarippled medium-coarse sand (65%), shell gravel (10%) and maerl gravel (10%) with shells (5%) and live maerl (10%) concentrated in troughs.	Live maerl around 10% (F).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V1_17.19	Heavily sand-dusted bedrock.	Poor visibility. Rock supports dense faunal turf (S) and park of small <i>Laminaria hyperborea</i> (C) and <i>Saccharina latissima</i> (P).	IR.HIR.KSed.XKScrR	RF:BR	
S4_V1_17.20	Coarse sand (55%), shell gravel (10%) and maerl gravel (10%) with shells (5%) and live maerl (20%).	Live maerl around 20% (C). Scattered tufts of hydroids/algae (O).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V1_17.21	Heavily sand-dusted bedrock.	Poor visibility. Rock supports dense faunal turf (S), red algae (F), <i>Dictyota dichotoma</i> (O), pink encrusting coralline algae (R) and park of mostly small <i>Laminaria hyperborea</i> (C) and <i>Saccharina latissima</i> (P). <i>Cliona celata</i> (R), <i>Luidia ciliaris</i> (F).	IR.HIR.KSed.XKScrR	RF:BR	
S4_V1_17.22	Channel of coarse sediment.	Poor visibility but live maerl probably around 15% (F).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V1_17.23	Heavily sand-dusted bedrock with small sediment pockets (2%).	Poor visibility. Rock supports dense faunal turf (S) including <i>Flustra foliacea</i> (P), red algae (C) including foliose species, <i>Dictyota dichotoma</i> (P), pink encrusting coralline algae (R) and park of <i>Laminaria hyperborea</i> (C). <i>Cliona celata</i> (R).	IR.HIR.KSed.XKScrR	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S4_V2_17.01	Megarippled coarse sand (66%), shell gravel (20%) and maerl gravel (5%) with shells (5%) including <i>Ensis</i> , and live maerl (4%) concentrated in troughs.	Live maerl around 4% (R). Scattered tufts of hydroids/algae (O), <i>Pecten maximus</i> (P), <i>Asterias rubens</i> (P), encrusting pink coralline algae (R).	SS.SCS.CCS	SB:GS	
S4_V2_17.02	Sand-scoured and dusted bedrock with small sand pockets (1%).	Rock supports dense faunal turf (S) including <i>Flustra foliacea</i> (F), red algae (F), pink encrusting coralline algae (R) and sparse <i>Laminaria hyperborea</i> (R). <i>Cliona celata</i> (R), <i>Pecten maximus</i> (P), <i>Antedon</i> spp. (locally C), <i>Luidia ciliaris</i> (F), <i>Echinus esculentus</i> (P).	CR.HCR.XFa.FluCoAs	RF:BR	
S4_V2_17.03	Megarippled medium-coarse sand (66%), shell gravel (20%) and maerl gravel (5%) with shells (5%) and live maerl (4%).	Live maerl around 4% (R). Scattered tufts of hydroids/algae (O), encrusting pink coralline algae (R).	SS.SCS.CCS	SB:GS	
S4_V2_17.04	Sand-scoured and dusted bedrock.	Rock supports dense faunal turf (S) including <i>Flustra foliacea</i> (F), red algae (F, locally C), pink encrusting coralline algae (R) and sparse <i>Laminaria hyperborea?</i> (R). <i>Cliona celata</i> (R), <i>Antedon</i> spp. (P).	CR.HCR.XFa.FluCoAs	RF:BR	
S4_V2_17.05	Slightly rippled fine-medium sand with scattered shell gravel (5%, locally greater).	Sparse live maerl thalli (<1%). <i>Cerianthus lloydii</i> (P), serpulid worms (R), <i>Cancer pagurus</i> (P), <i>Pecten maximus</i> (O), detrital or diatom film (C).	SS.SCS.ICS	SB:GS	
S4_V2_17.06	Coarse sand (60%), shell gravel (15%) and maerl gravel (5%) with shells (5%) and live maerl (15%).	Live maerl around 15% (F). Scattered tufts of hydroids/algae (O).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S4_V2_17.07	Sand-scoured and dusted bedrock with small sand pocket (1%).	Rock supports dense faunal turf (S), red algae (F) and pink encrusting coralline algae (R). <i>Cliona celata</i> (R), <i>Urticina</i> sp. (P), <i>Luidia ciliaris</i> (P).	CR.HCR.XFa.FluCoAs	RF:BR	
S4_V2_17.08	Medium-coarse sand (65%), shell gravel (10%) and maerl gravel (10%) with shells (5%) and live maerl (10%).	Live maerl around 10% (F), pink encrusting coralline algae (R). Scattered tufts of hydroids/algae (O).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V2_17.09	Sand-scoured and heavily-dusted bedrock.	Rock supports faunal turf (A), red algae (O) and pink encrusting coralline algae (R). <i>Cliona celata</i> (R), <i>Urticina</i> sp. (P), <i>Asterias rubens</i> (P), <i>Luidia ciliaris</i> (P), live maerl (<1%, R).	CR.HCR.XFa.FluCoAs	RF:BR	
S4_V2_17.10	Rippled fine-medium sand with surface scatter of shell gravel (5%, locally greater) and occasional boulders (1%).	Sparse live maerl (<1%, R), pink encrusting coralline algae (R). Boulders with bryozoans including <i>Flustra foliacea</i> (P) and possibly hydroids, as well as pink encrusting coralline algae, <i>Parasmittina trispinosa</i> and small <i>Antedon</i> spp.	SS.SCS.ICs	SB:GS	
S4_V2_17.11	Sand-scoured and heavily-dusted bedrock with small sand pocket (<1%).	Rock supports faunal turf (S) including <i>Flustra foliacea</i> (P), red algae (O), <i>Dictyota dichotoma</i> (P), and pink encrusting coralline algae (R). <i>Cliona celata</i> (R), <i>Caryophyllia smithii</i> (P), <i>Urticina</i> sp. (P), <i>Antedon</i> spp. (P), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (P), live maerl (<1%, R). Length of discarded/lost rope, probably creel line.	CR.HCR.XFa.FluCoAs	RF:BR	
S4_V2_17.12	Coarse sand (60%), shell gravel (20%) and maerl gravel (5%) with shells (5%) and live maerl (10%).	Live maerl around 10% (F). <i>Henricia</i> sp. (P), pink encrusting coralline algae (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S4_V2_17.13	Fine-medium sand with surface scatter of shell gravel (10%, locally greater and much smaller) and stones (<1%).	<i>Pecten maximus</i> (O), pink encrusting coralline algae (R).	SS.SCS.ICS	SB:GS	
S4_V2_17.14	Coarse sand (60%), shell gravel (15%) and maerl gravel (10%) with shells (5%) and live maerl (10%).	Live maerl around 10%, locally 15% (F). <i>Pecten maximus</i> (P), <i>Cancer pagurus</i> (P), foliose red algae (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V2_17.15	Fine-medium sand with surface scatter of shell gravel (10%); in places superficial cover over rock.	<i>Henricia</i> sp. (P), pink encrusting coralline algae (R) on small areas of outcropping rock. Tufts of hydroids/bryozoans (F), live maerl (<1%, R).	SS.SCS.ICS	SB:GS	
S4_V2_17.16	Sand-scoured and heavily-dusted bedrock.	Rock supports faunal turf (C), red algae (R), <i>Laminaria hyperborea</i> (R) and pink encrusting coralline algae (R). <i>Cliona celata</i> (R), <i>Urticina felina</i> (P), <i>Luidia ciliaris</i> (P), <i>Ascidia virginea?</i> (P), live maerl (<1%, R).	CR.HCR.XFa.FluCoAs	RF:BR	
S4_V2_17.17	Rippled fine-medium sand.	Sparse live maerl (<1%, R), detrital or diatom film (C), pink encrusting coralline algae (R).	SS.SCS.ICS	SB:GS	
S4_V2_17.18	Medium-coarse sand (60%), shell gravel (10%) and maerl gravel (15%) with shells (5%) and live maerl (10%).	Live maerl around 10% (F), serpulid worms (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V2_17.19	Fine-medium sand.	Sparse live maerl (<1%, R), detrital or diatom film (C).	SS.SCS.ICS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S4_V2_17.20	Coarse sand (65%), shell gravel (10%) and maerl gravel (5%) with shells (5%) and live maerl (15%).	Live maerl around 15%, locally sparser. Pink encrusting coralline algae (R), tufts of algae/hydroids (O), <i>Antedon</i> sp. (P), <i>Asterias rubens</i> (P).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V2_17.21	Sand-scoured and heavily-dusted bedrock.	Poor visibility. Rock supports faunal turf (S) including <i>Flustra foliacea</i> (P) and red algae (P).	CR.HCR.XFa.FluCoAs	RF:BR	
S4_V2_17.22	Rippled fine-medium sand with rock just emergent in placea (5%).	Detrital or diatom film present locally, <i>Urticina</i> sp. (P), hydroid/bryozoan patches (F).	SS.SCS.ICs	SB:GS	
S4_V2_17.23	Megarippled coarse sand (60%), shell gravel (10%) and maerl gravel (15%) with shells (5%) and live maerl (10%) largely concentrated in troughs. Rock just emergent locally (<1%).	Live maerl around 10% but 15% locally (F). <i>Urticina</i> sp. (P), serpulid worms (P), infaunal tubes (P), encrusting pink coralline algae (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V2_17.24	Fine-medium sand.	Clumps of hydroids/bryozoans (F) where rock just subsurface.	SS.SCS.ICs	SB:GS	
S4_V2_17.25	Heavily sand-dusted bedrock.	Rock supports dense faunal turf (S) including <i>Flustra foliacea</i> (P), red algae (C) including foliose species and park of <i>Laminaria hyperborea</i> (F) and <i>Saccharina latissima</i> (P). <i>Antedon</i> sp. (P).	IR.HIR.KSed.XKScrR	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S4_V3_17.01	Megarippled coarse sand (50%), shell gravel (5%) and maerl gravel (30%) with shells (5%) including <i>Ensis</i> , and live maerl (10%).	Live maerl around 10% (F) but 20% locally (C). Shells with serpulid worms (O) and encrusting pink coralline algae (R) and supporting scrub of probably mainly filamentous algae (F) and foliose red algae (R). <i>Asterias rubens</i> (O), <i>Henricia</i> sp. (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V3_17.02	Sand-scoured bedrock.	Rock supports dense faunal turf (S) including <i>Flustra foliacea</i> (O), red algal turf (F, locally C), <i>Dictyota dichotoma</i> (O locally) and park of <i>Laminaria hyperborea</i> (F) and <i>Saccharina latissima</i> (O). <i>Cliona celata</i> (R), <i>Actiniaria</i> sp. (P), <i>Pecten maximus</i> (R), <i>Parasmittina trispinosa</i> (R), <i>Antedon</i> spp. (C locally), <i>Henricia</i> sp. (R), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (O), <i>Ascidia virginea?</i> (R).	IR.HIR.KSed.XKScrR	RF:BR	
S4_V3_17.03	Slightly rippled fine-medium sand with surface scatter of shell gravel and dead maerl in transitional areas. Sparse shells (<1%) including <i>Ensis</i> . Camera briefly skirts bedrock.	<i>Cerianthus lloydii</i> (P), <i>Cancer pagurus</i> (O), <i>Henricia</i> sp. (R), sparse live maerl (<1%, R), pink encrusting coralline algae (R), film of detritus or diatoms (C).	SS.SCS.ICS	SB:GS	
S4_V3_17.04	Megaripples of medium-coarse sand (70%), shell gravel (10%) and maerl gravel (5%) with shells (5%) and live maerl (10%).	Live maerl possibly 10% (F), pink encrusting coralline algae (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S4_V3_17.05	Heavily sand-dusted bedrock with small sand patch (<1%).	Rock supports dense faunal turf (A) including <i>Flustra foliacea</i> (P), red algal turf (F), <i>Dictyota dichotoma</i> (P) and park of small <i>Laminaria hyperborea</i> (F). <i>Cliona celata</i> (R), <i>Urticina</i> spp. (O), <i>Caryophyllia smithii</i> (P), <i>Pecten maximus</i> (R), <i>Antedon</i> spp. (P), pink encrusting coralline algae (R).	IR.HIR.KSed.XKScrR	RF:BR	
S4_V3_17.06	Slightly rippled fine-medium sand. Scatter of shell gravel in transitional area with next biotope.	Detrital or diatom film (C).	SS.SCS.ICS	SB:GS	
S4_V3_17.07	Shallow megaripples of medium-coarse sand (65%), shell gravel (10%) and maerl gravel (10%) with shells (5%) and live maerl (10%).	Live maerl around 10% (F), <i>Eledone cirrhosa</i> (P), pink encrusting coralline algae (R), filamentous algal scrub (O).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V3_17.08	Heavily sand-dusted bedrock.	Poor visibility. Rock supports faunal turf (A) including <i>Flustra foliacea</i> (P), <i>Urticina</i> sp. (P) and pink encrusting coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S4_V3_17.09	Megaripples of medium-coarse sand (70%), shell gravel (10%) and maerl gravel (5%) with shells (5%) and live maerl (10%). Sediment becomes finer towards end.	Live maerl possibly 10% (F), pink encrusting coralline algae (R), <i>Asterias rubens</i> (P).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V3_17.10	Slightly rippled fine-medium sand.	Detrital or diatom film (C), live maerl <1% (R).	SS.SCS.ICS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S4_V3_17.11	Heavily sand-dusted bedrock with small sand patch (<1%).	Rock supports dense faunal turf (S), red algal turf (C), <i>Dictyota dichotoma</i> (P) and park of small <i>Laminaria hyperborea</i> (C) and <i>Saccharina latissima</i> (O). <i>Cliona celata</i> (R), <i>Antedon</i> sp. (P), <i>Luidia ciliaris</i> (O). Length of discarded/lost rope, probably creel line.	IR.HIR.KSed.XKScrR	RF:BR	
S4_V3_17.12	Probably mainly slightly rippled fine-medium sand but scatter of shell gravel in transitional area with next biotope.	Detrital or diatom film (C), <i>Asterias rubens</i> (P), live maerl <1% (R).	SS.SCS./CS	SB:GS	
S4_V3_17.13	Coarse sand (60%), shell gravel (10%) and maerl gravel (15%) with shells (5%) and live maerl (10%).	Live maerl around 10% (F). <i>Pecten maximus</i> (P). Small Ammodytidae sp. or possibly <i>Branchiostoma lanceolatum</i> (P).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB, SE?
S4_V3_17.14	Heavily sand-dusted bedrock with small sand patch (<1%).	Rock supports dense faunal turf (S) including <i>Flustra foliacea</i> (P), red algae (O) and park of small <i>Laminaria hyperborea</i> (F). <i>Luidia ciliaris</i> (P), pink encrusting coralline algae (R).	IR.HIR.KSed.XKScrR	RF:BR	
S4_V3_17.15	Fine-medium sand with surface scatter of coarse sand (10%).	Sparse live maerl (<1%, R), pink encrusting coralline algae (R).	SS.SCS./CS	SB:GS	
S4_V3_17.16	Sand-dusted bedrock.	Rock supports dense faunal turf (S), apparently sparse red algae and park of small <i>Laminaria hyperborea</i> (F). Pink encrusting coralline algae (R).	IR.HIR.KSed.XKScrR	RF:BR	
S4_V3_17.17	Megaripples of coarse sediment.	Poor visibility but apparently live maerl present (around 10%, F) in troughs.	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V3_17.18	Small patch of heavily sand-coated bedrock.	Faunal turf (A), small <i>Laminaria hyperborea</i> (P), pink encrusting coralline algae (R).	IR.HIR.KSed.XKScrR	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S4_V3_17.19	Megaripples of coarse sand (70%), shell gravel (10%) and maerl gravel (5%) with shells (5%) and live maerl (10%). Sediment becomes finer towards end close to sediment/rock boundary.	Live maerl around 10% (F) but 20% (C) locally and supporting short scrub of probably filamentous algae (O). Shells with serpulid worms (O) and pink encrusting coralline algae (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V3_17.20	Sand-scoured bedrock.	Rock supports dense faunal turf (S), red algal turf (C), <i>Dictyota dichotoma</i> (P) and park of <i>Laminaria hyperborea</i> (F). <i>Cliona celata</i> (R), <i>Urticina</i> sp. (P), serpulid worms (P), <i>Cancer pagurus</i> (P), <i>Antedon</i> sp. (P), <i>Luidia ciliaris</i> (P), pink encrusting coralline algae (R).	IR.HIR.KSed.XKScrR	RF:BR	
S4_V3_17.21	Megaripples of coarse sand (60%), shell gravel (10%) and maerl gravel (10%) with shells (5%) and live maerl (15%).	Live maerl around 15% (F) but 20% (C) locally and supporting short scrub of probably filamentous algae (F). <i>Asterias rubens</i> (P), shells with pink encrusting coralline algae (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V3_17.22	Heavily sand-dusted bedrock with small sand patches (1%).	Rock supports dense faunal turf (S) including hydroids, red algal turf (F), <i>Dictyota dichotoma?</i> (P) and park of <i>Laminaria hyperborea</i> (C) and <i>Saccharina latissima</i> (O). <i>Cliona celata</i> (R), <i>Urticina</i> sp. (P), <i>Antedon</i> spp. (C locally), pink encrusting coralline algae (R), live maerl <1% (R).	IR.HIR.KSed.XKScrR	RF:BR	
S4_V3_17.23	Small patch of medium-coarse sand with 10% shell gravel scatter.	Sparse live maerl (<1%, R).	SS.SCS.CCS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S4_V3_17.24	Small patch of heavily sand-dusted bedrock.	Rock supports faunal turf (A), <i>Laminaria hyperborea</i> (P) and <i>Saccharina latissima</i> (P). <i>Luidia ciliaris</i> (P).	IR.HIR.KSed.XKScrR	RF:BR	
S4_V3_17.25	Coarse sand (40%), shell gravel (10%) and maerl gravel (30%) with shells (5%) and live maerl (15%), largely in the form of megaripples.	Live maerl around 15% (F) but large patches around 20% (C) and supporting short scrub of probably filamentous algae (F). Shells with serpulid worms (O) and pink encrusting coralline algae (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V3_17.26	Sand-scoured bedrock.	Very poor visibility but rock supports dense faunal and/or algal turf (S) and forest of of <i>Laminaria hyperborea</i> (A).	IR.HIR.KSed.XKScrR	RF:BR	
S4_V3_17.27	Megaripples of coarse sand (45%), shell gravel (10%) and maerl gravel (30%) with shells (5%) and live maerl (10%), largely in the form of megaripples. Small bedrock outcrops.	Live maerl around 10% (F) concentrated in troughs and supporting short scrub of probably filamentous algae (P). Small bedrock outcrops with dense faunal/algal turf (locally S) and <i>Laminaria hyperborea</i> (locally A).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S5_V1_17.01	Megaripples of maerl gravel (55%), shell gravel (10%) and coarse sand (20%) with live maerl (10%) and shells (5%) concentrated in troughs.	Live maerl (10%, F, locally 15%) concentrated in troughs but also scattered over crests. <i>Asterias rubens</i> (P), <i>Neopentadactyla mixta</i> (P, 1 seen), sparse clumps of filamentous/filiform algae (O). Shells encrusted with pink coralline algae (R) and serpulid worms (O).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S5_V1_17.02	Sand-scoured and partially dusted bedrock (mostly low profile) with small patches of coarse sediment (<1%).	Poor visibility but rock with apparently a dense turf of bryozoans and hydroids (S) with <i>Flustra foliacea</i> (O) and <i>Securiflustra securifrons</i> (P) and possibly algae. Small areas of rock encrusted with pink coralline algae (R), serpulid worms (O) and <i>Parasmittina trispinosa</i> (R). <i>Cliona celata</i> (R), <i>Cancer pagurus</i> (P), <i>Asterias rubens</i> (P), <i>Luidia ciliaris</i> (F).	CR.HCR.XFa.FluCoAs	RF:BR	
S5_V1_17.03	Megaripples of maerl gravel (50%), shell gravel (5%) and coarse sand (25%) with live maerl (15%) and shells (5%) concentrated in troughs.	Live maerl (15%, F, but locally sparser and richer - perhaps 20%, C) concentrated in troughs but also scattered over crests. Clumps of filamentous/filiform algae (O). Shells encrusted with pink coralline algae (R) and serpulid worms (O). <i>Cerianthus lloydii</i> (P), <i>Brachyura</i> sp. (P), <i>Atelecyclus rotundatus?</i> (P), <i>Liocarcinus</i> sp. (R), <i>Pecten maximus</i> (R), <i>Henricia</i> sp. (R), <i>Luidia ciliaris</i> (P),	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S5_V1_17.04	Sand-scoured and partially dusted bedrock (mostly low profile) with small patches of coarse sediment (<1%).	Poor visibility but rock with apparently a dense turf of bryozoans and hydroids (S) and algal turf of foliose (O) and filiform reds (C). Rock supports <i>Cliona celata</i> (R) and <i>Antedon</i> spp. (C at least locally). <i>Buccinum undatum?</i> (P), <i>Echinus esculentus</i> (P).	CR.HCR.XFa.FluCoAs	RF:BR	
S5_V1_17.05	Megaripples of maerl gravel (25%), shell gravel (25%) and coarse sand (35%) with live maerl (10%) and shells (5%) concentrated in troughs.	Live maerl (10%, F) concentrated in troughs but also scattered over crests. Clumps of filamentous algae (O). Shells encrusted with pink coralline algae (R) and serpulid worms (O).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S5_V1_17.06	Sand-scoured and partially dusted bedrock.	Poor visibility but rock with apparently a dense turf of bryozoans and hydroids (S) including <i>Flustra foliacea</i> (P) and algal turf of foliose reds (C) and <i>Dictyota dichotoma?</i> (O). Rock supports <i>Cliona celata</i> (R) and <i>Antedon</i> spp. (P). <i>Henricia</i> sp. (P), <i>Ophiura albida</i> (locally C).	CR.HCR.XFa.FluCoAs	RF:BR	
S5_V1_17.07	Megaripples of coarse sediment including maerl gravel, live maerl, coarse sand and shells.	Poor visibility. Live maerl apparently around 10% cover (F). <i>Cerianthus lloydii</i> (P).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S5_V1_17.08	Mosaic of coarse sediment (50%, of which 10% is live maerl) and sand dusted bedrock (50%)	Poor visibility but coarse sediment includes around 10% live maerl. Rock locally encrusted with pink coralline algae (locally O) but generally supporting faunal (S) and algal (C) turf, the former including <i>Flustra foliacea</i> (P) and the latter foliose red algae (C). <i>Cliona celata</i> (R).	SS.SMp.Mrl.Pcal.Nmix, CR.HCR.XFa.FluCoAs	SB:MB, RF:BR	MB
S5_V1_17.09	Megaripples of maerl gravel (30%), shell gravel (15%) and coarse sand (40%) with live maerl (10%) and shells (5%) concentrated in troughs. Very small patches of outcropping bedrock (<1%).	Live maerl (10%, F) concentrated in troughs but also scattered over crests. Clumps of filamentous algae (O). Shells encrusted with pink coralline algae (R) and serpulid worms (O).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S5_V1_17.10	Sand-scoured bedrock.	Poor visibility but rock with apparently a dense turf of bryozoans and hydroids (S) including <i>Flustra foliacea</i> (C) and red algal turf (C) and supporting an encrusting yellow sponge (R), <i>Cliona celata</i> (R), <i>Caryophyllia smithii</i> (F, at least locally), solitary ascidians (P) and encrusting pink coralline algae (R). <i>Marthasterias glacialis</i> (P).	CR.HCR.XFa.FluCoAs	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S5_V1_17.11	Megaripples of maerl gravel (30%), shell gravel (15%) and coarse sand (40%) with live maerl (10%) and shells (5%) concentrated in troughs. Small patch of outcropping bedrock (<1%).	Live maerl (10%, F) concentrated in troughs but also scattered over crests. Clumps of filamentous algae (O). Shells encrusted with pink coralline algae (R) and serpulid worms (O). <i>Cerianthus lloydii</i> (O), <i>Pecten maximus</i> (O).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S5_V1_17.12	Sand-scoured and partially dusted bedrock.	Poor visibility but rock with apparently a dense turf of bryozoans and hydroids (S) including <i>Flustra foliacea</i> (F) and red algal turf (C). <i>Marthasterias glacialis</i> (P), <i>Crossaster papposus</i> (P).	CR.HCR.XFa.FluCoAs	RF:BR	
S5_V1_17.13	Megaripples of coarse sand (65%) and maerl gravel (20%) with live maerl (10%) and shells (5%) concentrated in troughs.	Live maerl (10%, F) concentrated in troughs but also scattered over crests. Clumps of filamentous algae (O). Shells encrusted with pink coralline algae (R) and serpulid worms (O). <i>Cerianthus lloydii</i> (O), <i>Pecten maximus</i> (O).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S5_V1_17.14	Sand-scoured and partially dusted bedrock.	Poor visibility but rock with apparently a dense turf of bryozoans and hydroids (S) including <i>Flustra foliacea</i> (R) and red algal turf (P). Pink encrusting coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S5_V1_17.15	Megaripples of coarse sand (75%) and maerl gravel (10%) with live maerl (10%) and shells (5%) concentrated in troughs.	Live maerl (10%, F) concentrated in troughs. Filamentous algae (O) and filiform algae (R). Shells encrusted with pink coralline algae (R), <i>Parasmittina trispinosa?</i> (R) and serpulid worms (O).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S5_V1_17.16	Sand-scoured and dusted bedrock with pockets of coarse sediment (5%).	Poor visibility but rock with apparently a dense turf of bryozoans and hydroids (S) including <i>Flustra foliacea</i> (R) and red algal turf (A) and supporting park of <i>Laminaria hyperborea</i> (F) with <i>Obelia geniculata</i> and <i>Liocarcinus</i> sp. on fronds and <i>Saccharina latissima</i> (P). <i>Urticina</i> sp.? (P) and <i>Astropecten irregularis</i> (P) on sediment.	IR.HIR.KSed.XKScrR	RF:BR	
S5_V1_17.17	Megaripples of maerl gravel (55%), shell gravel (15%) and coarse sand (10%) with live maerl (15%) and shells (5%) concentrated in troughs.	Live maerl (10%, F) concentrated in troughs but also scattered over crests. Clumps of filamentous algae (O). Shells encrusted with pink coralline algae (R) and serpulid worms (O). <i>Cerianthus lloydii</i> (O), <i>Pecten maximus</i> (O).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S5_V1_17.18	Sand-scoured and dusted bedrock with pockets of coarse sediment (2%).	Poor visibility but rock with apparently a dense turf of bryozoans and hydroids (S) including <i>Flustra foliacea?</i> (P) and red algal turf (A) and supporting <i>Cliona celata</i> (R) and pink encrusting coralline algae (R). <i>Pecten maximus</i> (P), <i>Antedon</i> spp. (P), <i>Luidia ciliaris</i> (F).	CR.HCR.XFa.FluCoAs	RF:BR	
S5_V1_17.19	Megaripples of shell gravel (45%), maerl gravel (25%) and coarse sand (15%) with live maerl (10%) and shells (5%) concentrated in troughs.	Live maerl (10%, F) concentrated in troughs but also scattered over crests. Clumps of filamentous algae (O). Shells encrusted with pink coralline algae (R) and serpulid worms (O). <i>Cerianthus lloydii</i> (O), <i>Pecten maximus</i> (O).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S5_V1_17.20	Sand-scoured and partially dusted bedrock.	Poor visibility but rock with apparently a dense turf of bryozoans and hydroids (S) including <i>Flustra foliacea</i> (O) and red algal turf (possibly C) and supporting <i>Cliona celata</i> (R). <i>Antedon</i> spp. (P), <i>Asterias rubens</i> (P).	CR.HCR.XFa.FluCoAs	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S5_V1_17.21	Megaripples of shell gravel (45%), maerl gravel (25%) and coarse sand (15%) with live maerl (10%) and shells (5%) concentrated in troughs.	Live maerl (10%, F) concentrated in troughs but also scattered over crests. Clumps of filamentous algae (O). Shells encrusted with serpulid worms (O).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S5_V2_17.01	Sand-scoured and dusted bedrock with pockets of coarse sediment (<1%).	Poor visibility but rock with apparently a dense turf of bryozoans and hydroids (S) with <i>Flustra foliacea</i> (O) and <i>Securiflustra securifrons</i> (F) and foliose red algae (P). <i>Cliona celata</i> (R), <i>Caryophyllia smithii</i> (P), <i>Asterias rubens</i> (P), <i>Echinus esculentus</i> (P).	CR.HCR.XFa.FluCoAs	RF:BR	
S5_V2_17.02	Megaripples of coarse sediment apparently with live maerl in the troughs.	Poor visibility but apparently some live maerl (possibly around 10% (F) in wave troughs.	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S5_V2_17.03	Sand-scoured and dusted bedrock.	Poor visibility but rock with apparently a dense turf of bryozoans and hydroids (S) with <i>Flustra foliacea</i> (F). <i>Cliona celata</i> (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S5_V2_17.04	Megaripples of coarse sand (50%), shell gravel (20%) and maerl gravel (15%) with shells (5%) and live maerl (10%) concentrated in troughs.	Poor visibility of maerl patches which contain fairly sparse live maerl but may reach around 10% (F) at least locally. Emergent infaunal tubes (P), <i>Asterias rubens</i> (P), filamentous algae (O).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S5_V2_17.05	Sand-scoured and dusted bedrock.	Poor visibility but rock with apparently a dense turf of bryozoans and hydroids (S) with <i>Flustra foliacea</i> (O) and <i>Securiflustra securifrons</i> (F) and foliose red algae (P). <i>Cliona celata</i> (R), <i>Marthasterias glacialis</i> (P), <i>Luidia ciliaris</i> (P).	CR.HCR.XFa.FluCoAs	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S5_V2_17.06	Megaripples of coarse sand (45%), shell gravel (25%) and maerl gravel (15%) with live maerl (10%) and shells (5%) concentrated in troughs.	Live maerl (10%, F) concentrated in troughs but also scattered over crests. Clumps of filamentous algae (O). <i>Galathea</i> sp. (P), <i>Brachyura</i> sp. (P), <i>Pecten maximus</i> (O).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S5_V2_17.07	Sand-scoured and dusted bedrock.	Poor visibility but rock with apparently a dense turf of bryozoans and hydroids (S) with <i>Flustra foliacea</i> (O) and <i>Securiflustra securifrons</i> (P). <i>Cliona celata</i> (R), pink encrusting coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S5_V2_17.08	Megaripples of coarse sand (15%), shell gravel (35%) and maerl gravel (35%) with live maerl (10%) and shells (5%) concentrated in troughs.	Live maerl (10%, F) concentrated in troughs but also scattered over crests. Clumps of filamentous algae (O).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S5_V2_17.09	Sand-scoured and dusted bedrock with pockets of coarse sediment (c.1%).	Poor visibility but rock with apparently a dense turf of bryozoans and hydroids (S) with <i>Flustra foliacea</i> (O) and <i>Securiflustra securifrons</i> (F) and foliose red algae (P). <i>Cliona celata</i> (R), <i>Caryophyllia smithii</i> (P), <i>Asterias rubens</i> (P), <i>Echinus esculentus</i> (P).	CR.HCR.XFa.FluCoAs	RF:BR	
S5_V2_17.10	Megaripples of coarse sediment, skirting edge of bedrock at times	Live maerl (possibly around 10% (F)) in wave troughs. Poor visibility.	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S5_V2_17.11	Sand-scoured and dusted bedrock.	Rock with turf of bryozoans and hydroids (A) with <i>Flustra foliacea</i> (O), <i>Securiflustra securifrons</i> (C) and <i>Halecium</i> sp. (P) and red algal turf (C). <i>Cliona celata</i> (R), <i>Caryophyllia smithii</i> (P), <i>Balanus balanus</i> (P), pink encrusting coralline algae (R), Anomiidae spp. (P), <i>Ophiura albida</i> (P), <i>Marthasterias glacialis</i> (P).	CR.HCR.XFa.FluCoAs	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S5_V2_17.12	Megaripples of coarse sand (15%), shell gravel (35%) and maerl gravel (35%) with live maerl (10%) and shells (5%). Sediment flatter locally.	Live maerl (10%, F) concentrated in troughs but also scattered over crests. Clumps of filamentous algae (O). <i>Atelecyclus rotundatus</i> (P), <i>Cancer pagurus</i> (P).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S5_V2_17.13	Sand-scoured and dusted bedrock.	Poor visibility but rock apparently with turf of bryozoans and hydroids (A). <i>Cliona celata</i> (R), <i>Marthasterias glacialis</i> (P).	CR.HCR.XFa.FluCoAs	RF:BR	
S5_V2_17.14	Megaripples of coarse sand (15%), shell gravel (35%) and maerl gravel (30%) with live maerl (15%) and shells (5%); small bedrock outcrop (<1%)	Live maerl (15%, F) concentrated in troughs but also scattered over crests. Clumps of filamentous algae (O), <i>Pecten maximus</i> (O).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S5_V2_17.15	Sand-scoured and dusted bedrock with pockets of coarse sediment (5%).	Poor visibility but rock apparently with turf of bryozoans and hydroids (A) and red algae (P). <i>Urticina</i> sp. (P), pink encrusting coralline algae (R), <i>Laminaria hyperborea</i> (P).	CR.HCR.XFa.FluCoAs	RF:BR	
S5_V2_17.16	Megaripples of coarse sand (30%), shell gravel (30%) and maerl gravel (20%) with live maerl (15%) and shells (5%); small bedrock outcrop (<1%).	Live maerl (15%, F) concentrated in troughs. Filamentous algae (O), serpulid worms (P).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S5_V2_17.17	Irregular bedrock with lower areas sand-dusted.	Poor visibility but rock apparently with turf of bryozoans and hydroids (A) and red algae (P), which increases in abundance locally (A) in shallower patches. Pink encrusting coralline algae (R), <i>Cliona celata</i> (R), <i>Antedon</i> spp. (P), <i>Luidia ciliaris</i> (F).	CR.HCR.XFa.FluCoAs, IR.HIR.KFaR.FoR	RF:BR	
S5_V2_17.18	Megaripples of shell gravel (50%) and maerl gravel (35%) with live maerl (10%) and shells (5%).	Live maerl (10%, F) but varying in density and possibly attaining 30% (C) locally; concentrated in troughs and scattered over crests. Filamentous algae (O), shells encrusted with pink coralline algae (R) and serpulid worms (P). Bivalve siphons (P), <i>Henricia</i> sp. (R), <i>Luidia ciliaris</i> (P).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S6_V1_17.01	Megaripples of shell gravel (35%), maerl gravel (40%) and coarse sand (10%) with live maerl (10%) and shells (5%).	Live maerl (10%, F, at least locally but also less than this locally) concentrated in troughs and scattered over crests. Shells encrusted with pink coralline algae (R) and serpulid worms (P). <i>Neopentadactyla mixta</i> (P).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S6_V1_17.02	Sand-scoured and dusted bedrock with small pockets of coarse sediment (c.1%).	Poor visibility but rock with apparently a dense turf of bryozoans and hydroids (S) with <i>Flustra foliacea</i> (P), pink encrusting coralline algae (R) and foliose red algae (P). <i>Necora puber?</i> (P).	CR.HCR.XFa.FluCoAs	RF:BR	
S6_V1_17.03	Megaripples of shell gravel (35%), maerl gravel (40%) and coarse sand (10%) with live maerl (10%) and shells (5%).	Live maerl (possibly 10%, F, at least locally) concentrated in troughs and scattered over crests.	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S6_V1_17.04	Sand-scoured and dusted bedrock.	Poor visibility but rock with apparently a dense turf of bryozoans and hydroids (S) with <i>Flustra foliacea</i> (P), <i>Parasmittina trispinosa</i> (R) and foliose red algae (P).	CR.HCR.XFa.FluCoAs	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S6_V1_17.05	Megaripples of shell gravel (35%), maerl gravel (40%) and coarse sand (10%) with live maerl (10%) and shells (5%).	Live maerl (around 10%, F, at least locally) concentrated in troughs and scattered over crests. <i>Cancer pagurus</i> (P), shell encrusted with pink coralline algae (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S6_V1_17.06	Sand-scoured and dusted bedrock with small pockets of coarse sediment (c.1%).	Poor visibility but rock with apparently a dense turf of bryozoans and hydroids (S) with <i>Flustra foliacea</i> (P), pink encrusting coralline algae (O), <i>Cliona celata</i> (R), yellow encrusting sponge (R), <i>Caryophyllia smithii</i> (locally C), <i>Parasmittina trispinosa</i> (R) and foliose red algae (P). <i>Antedon</i> spp. (locally C), <i>Luidia ciliaris</i> (F), <i>Echinus esculentus</i> (P).	CR.HCR.XFa.FluCoAs	RF:BR	
S6_V1_17.07	Megaripples of shell gravel (35%) and maerl gravel (50%) with live maerl (10%) and shells (5%).	Live maerl (around 10%, F) concentrated in troughs and scattered over crests. Shells encrusted with pink coralline algae (R) and serpulid worms (P). <i>Pecten maximus?</i> (P), <i>Asterias rubens</i> (P), <i>Henricia</i> sp. (P), <i>Luidia ciliaris</i> (F), foliose red algae (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S6_V1_17.08	Sand-scoured and dusted bedrock.	Rock with apparently a dense turf of bryozoans and hydroids (S) with <i>Flustra foliacea</i> (P), <i>Alcyonidium diaphanum</i> (P) and <i>Pentapora foliacea</i> (O), and red algal turf (A) including <i>Bonnemaisonia</i> sp.? (locally A), and <i>Dictyota dichotoma</i> (P). Rock encrusted with <i>Parasmittina trispinosa</i> (R) and pink coralline algae (R). <i>Cliona celata</i> (R), <i>Alcyonium digitatum</i> (R), <i>Antedon</i> spp. (locally C), <i>Ophiothrix fragilis?</i> (P).	CR.HCR.XFa.FluCoAs	RF:BR	
S6_V1_17.09	Megaripples of coarse sediment.	Live maerl (possibly around 10% (F) in wave troughs. Poor visibility.	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S6_V1_17.10	Sand-scoured and dusted bedrock with small pockets of coarse sediment (c.1%).	Poor visibility but rock with apparently a dense turf of bryozoans and hydroids (S) with <i>Flustra foliacea</i> (P) and <i>Securiflustra securifrons</i> (P) and red algal turf (A) including <i>Bonnemaisonia</i> sp.? (P), pink encrusting coralline algae (R), <i>Cliona celata</i> (R), Decapoda sp. (P), <i>Aplysia punctata</i> (P), <i>Luidia ciliaris</i> (F), juvenile Laminariales spp. (O).	CR.HCR.XFa.FluCoAs	RF:BR	
S6_V1_17.11	Megaripples of shell gravel (40%) and maerl gravel (45%) with live maerl (10%) and shells (5%).	Live maerl (10%, F, possibly denser locally) concentrated in troughs and scattered over crests. Shells encrusted with pink coralline algae (R) and serpulid worms (P). <i>Antedon</i> sp. (P), filamentous algae (O).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S6_V1_17.12	Mosaic of sand-scoured and dusted bedrock and patches of coarse sediment (35%) with live maerl.	Poor visibility but rock with apparently a dense turf of bryozoans and hydroids (S) with <i>Flustra foliacea</i> (P) and red algal turf (A). <i>Hyas</i> sp. (P), <i>Aplysia punctata</i> (P), <i>Luidia ciliaris</i> (F), juvenile Laminariales spp. (O). Coarse sediment patches with around 10% cover of live maerl.	SS.SMp.Mrl.Pcal.Nmix, CR.HCR.XFa.FluCoAs	SB:MB, RF:BR	MB
S6_V1_17.13	Megaripples of shell gravel (35%), maerl gravel (40%) and coarse sand (10%) with live maerl (10%) and shells (5%).	Live maerl (possibly 10%, F, at least locally, though less in some areas) concentrated in troughs and scattered over crests. <i>Urticina</i> sp. (R), <i>Cancer pagurus</i> (P), Brachyura sp. (P), shells encrusted with pink coralline algae (R) and red algae (R) and supporting sparse filamentous (O) and foliose red (R) algae, <i>Dictyota dichotoma</i> ? (R), possibly hydroids (P) and serpulid worms (O).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S6_V1_17.14	Sand-scoured and dusted bedrock with small pockets of coarse sediment (<1%).	Poor visibility but rock with apparently a dense turf of bryozoans and hydroids (S) with <i>Flustra foliacea</i> (P) and <i>Securiflustra securifrons</i> (P) and red algal turf (A), pink encrusting coralline algae (R), <i>Cliona celata</i> (R), <i>Ophiura albida</i> (P), <i>Crossaster papposus</i> (P), <i>Marthasterias glacialis</i> (P), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (F).	CR.HCR.XFa.FluCoAs	RF:BR	
S6_V1_17.15	Sand-scoured and dusted bedrock.	Very poor visibility but turf present dominated by red algae (S) with sparse Laminariales sp. (P). <i>Echinus esculentus</i> (P).	IR.HIR.KFaR.FoR	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S6_V1_17.16	Megaripples of shell gravel (50%), maerl gravel (35%) and coarse sand (10%) with live maerl (3%) and shells (2%).	Sparse live maerl (c.3%) concentrated in troughs. Filamentous algae (O).	SS.SCS.CCS	SB:GS	
S6_V1_17.17	Sand-scoured and dusted bedrock with pockets of coarse sediment (2%).	Poor visibility but rock with apparently a dense turf of bryozoans and hydroids (S), sparse juvenile Laminariales spp. (O) and pink encrusting coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S6_V1_17.18	Megaripples of shell gravel (35%), maerl gravel (50%) and coarse sand (10%) with live maerl (3%) and shells (2%).	Live maerl (possibly 10%, F, at least locally, though less in some areas) concentrated in troughs and scattered over crests. Shells encrusted with pink coralline algae (R) and red algae (R) and supporting sparse filamentous algae (O).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S6_V2_17.01	Megaripples of shell gravel (10%) and maerl gravel (80%) with live maerl (5%) and shells (5%).	Sparse live maerl (probably around 5% (O) overall but perhaps reaching 10% (F) in patches) concentrated in troughs and scattered over crests. Shells encrusted with pink coralline algae (R) and red algae (R) and supporting serpulid worms (O) and sparse filamentous algae (P).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S6_V2_17.02	Sand-scoured and dusted bedrock.	Poor visibility but rock with apparently a dense turf of bryozoans and hydroids (S) including <i>Flustra foliacea</i> (P), <i>Cliona celata</i> (R), <i>Marthasterias glacialis</i> (P), sparse juvenile Laminariales spp. (O) and pink encrusting coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S6_V2_17.03	Megaripples of shell gravel (30%) and maerl gravel (60%) with live maerl (5%) and shells (5%).	Sparse live maerl (probably around 5% (O) overall but perhaps reaching 10% (F) in patches) concentrated in troughs and scattered over crests. Sparse filamentous algae (P).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S6_V2_17.04	Sand-scoured and dusted bedrock.	Poor visibility but rock with apparently a dense turf of bryozoans and hydroids (S) including <i>Flustra foliacea</i> (F) and red algal turf (C). Encrusting yellow sponge (R), sparse juvenile <i>Laminaria hyperborea</i> (O) and pink encrusting coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S6_V2_17.05	Megaripples (flatter locally) of shell gravel (35%), maerl gravel (40%) and coarse sand (15%) with live maerl (5%) and shells (5%).	Sparse live maerl (probably around 5% (O) overall but perhaps reaching 10% (F) in patches) concentrated in troughs and scattered over crests. Shells encrusted with pink coralline algae (R) and serpulid worms (O). Filamentous algae (O).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S6_V2_17.06	Sand-scoured and dusted bedrock with pockets of coarse sediment (<1%).	Poor visibility but rock with apparently a dense turf of bryozoans and hydroids (S), sparse juvenile Laminariales spp. (O) and pink encrusting coralline algae (R). <i>Luidia ciliaris</i> (F).	CR.HCR.XFa.FluCoAs	RF:BR	
S6_V2_17.07	Megaripples of shell gravel (35%), maerl gravel (42%) and coarse sand (15%) with live maerl (3%) and shells (5%).	Sparse live maerl (probably around 3 % (R)). Shells encrusted with pink coralline algae (R) and serpulid worms (O). Paguridae sp. (P), <i>Asterias rubens</i> (P), filamentous algae (O).	SS.SCS.CCS	SB:GS	
S6_V2_17.08	Sand-scoured and dusted bedrock with boulders (1%).	Poor visibility but rock with apparently a dense turf of bryozoans and hydroids (A) including <i>Flustra foliacea</i> (P). <i>Ciona celata</i> (R), <i>Liocarcinus</i> sp. (P), nudibranch egg ribbon (P), <i>Antedon</i> spp. (locally C).	CR.HCR.XFa.FluCoAs	RF:BR	
S6_V2_17.09	Megaripples of coarse sediment with shells (5%) in troughs.	Sparse live maerl (around 2% (R)). Poor visibility.	SS.SCS.CCS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S6_V2_17.10	Sand-scoured and dusted bedrock with patches of coarse sediment (<1%).	Poor visibility but rock with apparently a dense turf of bryozoans and hydroids (S) including <i>Flustra foliacea</i> (F) and <i>Securiflustra securifrons</i> (C) and foliose red algae (O). Pink encrusting coralline algae (R), <i>Cliona celata</i> (R), <i>Caryophyllia smithii</i> (F locally), <i>Munida rugosa</i> (P), <i>Cancer pagurus</i> (P), <i>Aplysia punctata</i> (P), nudibranch egg string (P), <i>Antedon</i> spp. (locally A), <i>Ophiura albida</i> (C locally).	CR.HCR.XFa.FluCoAs	RF:BR	
S6_V2_17.11	Megaripples of shell gravel (50%) and maerl gravel (45%) with live maerl (2%) and shells (3%).	Sparse live maerl (around 2% (R)). Shells encrusted with pink coralline algae (R) and serpulid worms (P). <i>Marthasterias glacialis</i> (P).	SS.SCS.CCS	SB:GS	
S6_V2_17.12	Sand-scoured and dusted bedrock.	Poor visibility but rock with apparently a dense turf of bryozoans and hydroids (S) including <i>Flustra foliacea</i> (F) and <i>Securiflustra securifrons</i> (C).	CR.HCR.XFa.FluCoAs	RF:BR	
S6_V2_17.13	Megaripples of shell gravel (40%) and maerl gravel (40%) and coarse sand (15%) with live maerl (2%) and shells (3%).	Sparse live maerl (around 2% (R)). Shells encrusted with pink coralline algae (R) and serpulid worms (P).	SS.SCS.CCS	SB:GS	
S7_V1_17.01	Sand-scoured and dusted bedrock.	Very poor visibility but rock with apparently a dense faunal and possibly algal turf including <i>Securiflustra securifrons</i> (F) and frequent small Laminariales spp. <i>Luidia ciliaris</i> (P).	IR.HIR.KSed.XKScrR	RF:BR	
S7_V1_17.02	Coarse sediment and shells.	Live maerl possibly present but at low density. Visibility very poor.	SS.SCS.CCS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S7_V2_17.01	Slight muddy fine-medium sand with scatter of shell gravel (10%) and shells (2%) including <i>Ensis</i> .	Sediment apparently with scatter of filamentous algae (F, locally C, but much of it unattached), foliose red algae (R) and possible detrital or diatomaceous film (P, locally C) with some small mounds and infaunal casts (P). <i>Cerianthus lloydii</i> (P), <i>Turritella communis</i> (C), hydroid spp.? (R), infaunal tubes including <i>Chaetopterus variopedatus</i> ? (P), <i>Liocarcinus</i> sp.? (P), <i>Cancer pagurus</i> (O), <i>Ophiura albida</i> (P), <i>Asterias rubens</i> (O), <i>Henricia</i> sp. (R), <i>Luidia ciliaris</i> (O), <i>Asciidiella aspersa</i> (C locally), live maerl (<1%), kelp debris.	SS.SSa.IMuSa	SB:MS	
S7_V2_17.02	Sand-scoured and dusted bedrock.	Rock with apparently a faunally-dominated turf (A-S) including hydroid spp. (C, at least locally) and <i>Clavelina lepadiformis</i> (O). <i>Caryophyllia smithii</i> (F locally), <i>Marthasterias glacialis</i> (F), <i>Echinus esculentus</i> (P), <i>Ascidia mentula</i> ? (P), <i>Asciidiella aspersa</i> ? (P), pink encrusting coralline algae (R), foliose red algae (O).	CR.HCR.XFa.FluCoAs	RF:BR	
S7_V2_17.03	Slight muddy fine-medium sand with scatter of shell gravel (10%) and shells (<1%).	Sediment apparently with scatter of filamentous algae (C, but much of it unattached).	SS.SSa.IMuSa	SB:MS	
S7_V2_17.04	Sand-scoured and dusted bedrock.	Poor visibility but apparently rock with dense faunal turf (S) and possibly sparse Laminariales sp.	CR.HCR.XFa	RF:BR	
S7_V2_17.05	Slight muddy fine-medium sand with scatter of shell gravel (25%) and shells (<1%).	Sediment apparently with scatter of filamentous algae (C, but much of it unattached); foliose red algae (R), hydroid spp. (P).	SS.SSa.IMuSa	SB:MS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S7_V2_17.06	Sand-scoured and dusted bedrock with small sand patches (1%).	Poor visibility but rock with apparently a dense turf of bryozoans and hydroids (S) including <i>Flustra foliacea</i> (P), and foliose red algae (O), as well as colonial ascidians including <i>Clavelina lepadiformis</i> (P) and <i>Botryllus schlosseri</i> (P). <i>Ciona celata</i> (R), <i>Suberites</i> sp. (P), <i>Urticina</i> spp.(P), <i>Caryophyllia smithii</i> (F locally), <i>Ascidia mentula?</i> (P).	CR.HCR.XFa.FluCoAs	RF:BR	
S7_V2_17.07	Slight muddy fine sand with scatter of shell gravel (3%) and shells (<1%) including <i>Ensis</i> .	Sediment apparently with scatter of filamentous algae (C, but much of it unattached), foliose red algae (R) and possible detrital or diatomaceous film (P, locally C) with some small mounds and infaunal tubes (P). <i>Urticina</i> spp.? (P), <i>Turritella communis</i> (C), <i>Pecten maximus</i> (R), <i>Asterias rubens</i> (O), <i>Marthasterias glacialis</i> (P), <i>Henricia</i> sp. (R), <i>Luidia ciliaris</i> (O), <i>Asciella aspersa</i> (C, locally S on drift kelp), live maerl (<1%), kelp debris.	SS.SSa.IMuSa	SB:MS	
S7_V3_17.01	Megaripples of coarse sand (70%) with scattered shell gravel (26%), shells (3%) and live maerl (1%).	Sparse live maerl (around 1%) with shells encrusted with pink coralline algae (R). Scatter of filamentous algae (F, largely unattached), <i>Ensis</i> sp.? siphons (P), <i>Asterias rubens</i> (P), <i>Asciella aspersa</i> (C).	SS.SCS.CCS	SB:GS	
S7_V3_17.02	Slightly silty medium sand (75%) with scattered shell gravel (23%), maerl gravel (2%) and live maerl (<1%).	Very sparse live maerl (<1%). Scatter of filamentous algae (F, largely unattached), <i>Chaetopterus variopedatus?</i> (P).	SS.SSa.IMuSa	SB:MS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S7_V3_17.03	Slightly silty megaripples of coarse sand (40%), maerl gravel (27%) and shell gravel (25%) with shells (5%) including <i>Ensis</i> , and live maerl (3%).	Sparse live maerl (around 3%, R) with shells encrusted with pink coralline algae (R). Scatter of filamentous algae (F, largely unattached), infaunal tubes (P), <i>Sertularia</i> sp. (P), <i>Asterias rubens</i> (P), <i>Asciidiella aspersa</i> (F).	SS.SCS.CCS	SB:GS	
S7_V3_17.04	Sand-scoured and dusted bedrock.	Very poor visibility but rock clearly covered with a dense faunal and/or algal turf and supporting park of small <i>Laminaria hyperborea</i> (F). <i>Cliona celata</i> (R), <i>Marthasterias glacialis</i> (P), <i>Echinus esculentus</i> (P).	IR.HIR.KSed.XKScrR	RF:BR	
S7_V4_17.01	Coarse sand (62%), shell gravel (15%) and maerl gravel (15%) generally formed into low megaripples with shells (5%) including <i>Ensis</i> and live maerl (3%).	Sparse live maerl (around 3%, R) with shells encrusted with pink coralline algae (R), red algae (R) and serpulid worms (O). Scatter of filamentous algae (F, largely unattached) and foliose red algae (R), Anomiidae sp. (P on drift kelp), <i>Ensis</i> sp. siphons? (P), <i>Ophiura albida</i> (P), <i>Asterias rubens</i> (F), <i>Neopentadactyla mixta</i> (P, 1 seen), <i>Asciidiella aspersa</i> (F, locally C), <i>Corella parallelogramma</i> (P), <i>Callionymus</i> sp. (P).	SS.SCS.CCS.Nmix	SB:GS	MC
S7_V4_17.02	Sand-scoured and dusted bedrock.	Dense park of small <i>Laminaria hyperborea</i> (C) with understorey of red algal turf (C) of filamentous and foliose species and <i>Dictyota dichotoma</i> (F). Rock also supports <i>Cliona celata</i> (R) and pink encrusting coralline algae (R). <i>Ophiura</i> sp. (P), <i>Marthasterias glacialis</i> (P), <i>Echinus esculentus</i> (C).	IR.HIR.KSed.XKScrR	RF:BR	
S7_V4_17.03	Coarse sand (88%) with scattered shell gravel (10%) and shells (2%) including <i>Ensis</i> .	Scatter of filamentous algae (F, largely unattached), <i>Pecten maximus</i> (P).	SS.SCS.CCS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S7_V4_17.04	Sand-scoured bedrock (96%) and boulders (3%) with small sand patches (1%) .	Forest and locally park of fairly small <i>Laminaria hyperborea</i> (A) with <i>Saccorhiza polyschides</i> (P) and understorey of red algal turf (A) including <i>Delesseria sanguinea</i> (F) and filamentous species, and <i>Dictyota dichotoma</i> (F). Rock also supports <i>Cliona celata</i> (R), <i>Clavelina lepadiformis</i> (P), <i>Caryophyllia smithii</i> (P) and pink encrusting coralline algae (O). <i>Marthasterias glacialis</i> (O), <i>Echinus esculentus</i> (C), large teleosts (O).	IR.HIR.KSed.XKScrR	RF:BR	
S7_V4_17.05	Medium - coarse sand (88%) with scattered shell gravel (10%) and shells (2%).	Poor visibility. Sediment with much filamentous algal debris (A). <i>Pecten maximus</i> (O)	SS.SCS.CCS	SB:GS	
S7_V4_17.06	Sand-scoured and locally dusted bedrock (98%) and boulders (1%) with small sand patches (1%).	Forest and locally park of fairly small <i>Laminaria hyperborea</i> (A) and understorey of red algal turf (C) including <i>Delesseria sanguinea</i> (F) and filamentous species, and <i>Dictyota dichotoma</i> (C, at least locally). Rock also supports <i>Cliona celata</i> (R), <i>Clavelina lepadiformis</i> (O), <i>Caryophyllia smithii</i> (P) and pink encrusting coralline algae (O). <i>Ophiura</i> sp. (P), <i>Asterias rubens?</i> (P), <i>Marthasterias glacialis</i> (O), <i>Echinus esculentus</i> (C).	IR.HIR.KSed.XKScrR	RF:BR	
S7_V4_17.07	Coarse sand (77%) with scattered shell gravel (20%) and shells (3%) including <i>Ensis</i> .	Scatter of filamentous algae (C, probably unattached), <i>Pecten maximus</i> (P), drift kelp.	SS.SCS.CCS	SB:GS	
S7_V4_17.08	Sand-scoured and locally dusted bedrock.	Park of fairly small <i>Laminaria hyperborea</i> (C) with <i>Saccharina latissima</i> (P) and understorey of red algal turf (C) and <i>Dictyota dichotoma</i> (F, at least locally) and hydroids including <i>Halecium</i> sp. (P) and <i>Nemertesia ramosa</i> (P). Rock also supports <i>Cliona celata</i> (R), <i>Clavelina lepadiformis</i> (O), <i>Caryophyllia smithii</i> (F locally) and pink encrusting coralline algae (R). <i>Antedon</i> spp. (P), <i>Marthasterias glacialis</i> (P), <i>Henricia</i> sp. (P), <i>Echinus esculentus</i> (C).	IR.HIR.KSed.XKScrR	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S7_V4_17.09	Megaripples of coarse sediment and shells (1%).	Poor visibility. <i>Pecten maximus</i> (P), <i>Marthasterias glacialis</i> (P, 6-armed specimen).	SS.SCS.CCS	SB:GS	
S7_V4_17.10	Sand-scoured and locally dusted bedrock.	Park of small <i>Laminaria hyperborea</i> (F) with red algal turf (F) and <i>Dictyota dichotoma</i> (F, at least locally) and hydroids including <i>Nemertesia antennina</i> (P). Rock also supports <i>Cliona celata</i> (R), <i>Clavelina lepadiformis</i> (P), <i>Caryophyllia smithii</i> (F locally) and pink encrusting coralline algae (R). <i>Antedon</i> spp. (P), <i>Ophiura albida</i> (P), <i>Marthasterias glacialis</i> (F), <i>Echinus esculentus</i> (C), <i>Ascidia</i> sp. (P).	IR.HIR.KSed.XKScrR	RF:BR	
S7_V4_17.11	Slightly silty fine sand (84%) with scatter of shell gravel (15%) and shells (1%) including <i>Ensis</i> ; small bedrock outcrops (<1%).	Scatter of filamentous algae (F, largely debris), <i>Turritella communis</i> (C), <i>Pecten maximus</i> (O), Pectiniidae sp. juv.? (P), <i>Luidia ciliaris</i> (P), <i>Ascidella aspersa</i> (F), foliose red algae (R). Sediment with small mounds and polychaete casts (F). Drift kelp.	SS.SSa.IMuSa	SB:MS	
S8_V1_17.01	Low profile, highly sand-scoured and dusted bedrock.	Rock with dense faunal and algal turf (S) including at least hydroids (P), <i>Securiflustra securifrons</i> (P), <i>Aplidium punctum</i> (P), <i>Clavelina lepadiformis</i> (P), red algal turf (F) with foliose red algae (O), <i>Dictyota dichotoma</i> (P). Drift kelp. <i>Cliona celata</i> (R), <i>Echinus esculentus</i> (P), <i>Ascidella aspersa</i> (C), pink encrusting coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S8_V1_17.02	Patch of megarippled coarse sediment with cobble (1%). Camera skirts edge of bedrock.	<i>Ascidella aspersa</i> (C).	SS.SCS.CCS	SB:GS	
S8_V1_17.03	Highly sand-scoured and dusted bedrock.	Rock with dense faunal and algal turf (S). <i>Cliona celata</i> (R), orange sponge? (R), <i>Ascidella aspersa</i> (C).	CR.HCR.XFa.FluCoAs	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S8_V1_17.04	Megarippled coarse sediment with patches of flatter areas. Composition varies along run but overall dominated by shell gravel (62%) and coarse sand (20%) with maerl gravel (12%), live maerl (1%), shells (5%) including <i>Ensis</i> ; small bedrock outcrops (<1%).	Live maerl (around 1% but 4% locally), filamentous algae (O, largely drift), foliose red algae (R), <i>Antedon</i> sp. (R), <i>Marthasterias glacialis</i> (O), <i>Asterias rubens</i> (O), <i>Luidia ciliaris</i> (O), <i>Asciidiella aspersa</i> (O). Shells with encrusting pink coralline algae (R) and serpulid worms (O).	SS.SCS.CCS	SB:GS	
S8_V1_17.05	Fine-medium sand (90%) with scattered shell gravel (10%) and shells (<1%) including <i>Ensis</i> .	Sediment with faunal tracks and small mounds. Filamentous algae (O, largely drift), live maerl (<1%, locally possibly 4%), <i>Asterias rubens</i> (O), <i>Cerianthus lloydii</i> tubes? (P), bivalve siphons (P).	SS.SCS.ICS	SB:GS	
S8_V1_17.06	Sand-scoured and dusted bedrock.	Rock with dense faunal turf (S) including <i>Securiflustra securifrons</i> (F) and <i>Aplidium punctum</i> (R). <i>Cliona celata</i> (R), <i>Asterias rubens?</i> (P), <i>Marthasterias glacialis</i> (P), <i>Asciidiella aspersa</i> (P), drift kelp.	CR.HCR.XFa.FluCoAs	RF:BR	
S8_V2_17.01	Megaripples of coarse sand (65%) and shell gravel (30%) with live maerl (<1%) and shells (5%) including <i>Ensis</i> .	Sparse live maerl (<1% (R). Shells encrusted with pink coralline algae (R) and serpulid worms (R). <i>Pecten maximus</i> (R), bivalve siphons (P), filamentous algae (R, largely debris).	SS.SCS.CCS	SB:GS	
S8_V2_17.02	Fine-medium sand with a scatter of shell gravel (10%).	Sediment with faunal tracks and emergent infaunal tubes (P) and a fine detritus or diatom film? (C), small mounds and polychaete casts (F). Drift kelp.	SS.SCS.ICS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S8_V2_17.03	Megaripples of coarse sand (50%) and shell gravel (45%) with live maerl (<1%) and shells (5%) including <i>Ensis</i> .	Sparse live maerl (<1% (R). Shells encrusted with pink coralline algae (R) and serpulid worms (R). Infaunal tubes (P), filamentous algae (R, possibly largely debris).	SS.SCS.CCS	SB:GS	
S8_V2_17.04	Fine-medium sand with a scatter of shell gravel (5%) and shells (1%).	Sediment with faunal tracks and small holes and a detrital/diatom film? (C). Hydroid spp. (R), Sabellidae sp. (P), live maerl (<1%, R).	SS.SCS./CS	SB:GS	
S8_V2_17.05	Shell gravel (50%) on sand (45%) with shells (5%) including <i>Ensis</i> .	Poor visibility. Pink encrusting coralline algae (P) and live maerl probably present but at low density (<1%, R).	SS.SCS.CCS	SB:GS	
S8_V2_17.06	Fine-medium sand with a scatter of shell gravel (10%) and shells (<1%) including <i>Ensis</i> .	Sediment with faunal tracks and emergent infaunal tubes (P, possibly <i>Chaetopterus variopedatus</i>) and a detrital/diatom film? (C). Hydroid spp. (R), <i>Liocarcinus</i> sp.? (P), live maerl (<1%, R).	SS.SCS./CS	SB:GS	
S8_V2_17.07	Megaripples for much of run of coarse sand (13%) and shell gravel (60%) and maerl gravel (20%) with live maerl (c.2%) and shells (5%) including <i>Ensis</i> .	Sparse live maerl (c.2% (R) at least locally). Shells encrusted with pink coralline algae (R) and serpulid worms (R). <i>Cancer pagurus</i> (P), <i>Pecten maximus</i> (R), <i>Marthasterias glacialis</i> (P), <i>Asterias rubens</i> (O), <i>Henricia</i> sp. (R), filamentous algae (R, possibly largely debris), foliose red algae (R).	SS.SCS.CCS	SB:GS	
S8_V2_17.08	Fine-medium sand with a scatter of shell gravel (5%), shells (<1%) including <i>Ensis</i> and coarse sand (5%) locally.	Sediment with faunal tracks. <i>Asterias rubens</i> (P), filamentous algae (O, probably largely drift). Hydroid spp. (R), <i>Liocarcinus</i> sp.? (P), live maerl (<1%, R).	SS.SCS./CS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S8_V2_17.09	Sediment of coarse sand (25%), shell gravel (58%) and maerl gravel (10%) formed into megaripples at intervals with live maerl (c.2%) and shells (5%) including <i>Ensis</i> concentrated in troughs.	Sparse live maerl (c.2% (R) at least locally). Shells encrusted with pink coralline algae (R), red algae (R) and serpulid worms (R). Hydroid spp.? (R), <i>Pecten maximus</i> (R), <i>Marthasterias glacialis</i> (P), <i>Asterias rubens</i> (O), <i>Asciidiella aspersa</i> (O), filamentous algae (O, possibly largely debris), foliose red algae (R).	SS.SCS.CCS	SB:GS	
S8_V3_17.01	Sediment of coarse sand (60%), shell gravel (25%) and maerl gravel (10%) formed into megaripples at intervals with live maerl (<1%) and shells (5%) including <i>Ensis</i> .	Sparse live maerl (<1% overall but possibly up to 3% locally (R). Shells encrusted with pink coralline algae (R) and serpulid worms (R). Hydroid spp.? (R), <i>Ensis</i> sp.? siphons (P), <i>Marthasterias glacialis</i> (P), <i>Asterias rubens</i> (P), <i>Luidia ciliaris</i> (P), filamentous algae (O, possibly largely dead).	SS.SCS.CCS	SB:GS	
S8_V3_17.02	Fine-medium sand with a scatter of shell gravel (10%), shells (5%) including <i>Ensis</i> and live maerl (<1%).	Filamentous algae (O, probably largely dead), live maerl (<1%, R), faunal tracks (P). Shells encrusted with pink coralline algae (R) and serpulid worms (R).	SS.SCS.ICCS	SB:GS	
S8_V3_17.03	Sediment of coarse sand (55%), shell gravel (25%) and maerl gravel (10%) formed into megaripples with live maerl (c.2%) and	Sparse live maerl (c.2%, R). Shells encrusted with pink coralline algae (R), red algae (R) and serpulid worms (O). Hydroid spp.? (R), <i>Brachyura</i> sp. (P), <i>Pecten maximus</i> (P), <i>Asterias rubens</i> (O), filamentous algae (O, possibly largely dead).	SS.SCS.CCS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
	shells (8%) including <i>Ensis</i> .				
S8_V3_17.04	Fine-medium sand with a scatter of shell gravel (5%), coarse sand (5%) and shells (1%) including <i>Ensis</i> and live maerl (<1%).	Filamentous algae (F, probably largely dead), live maerl (<1%, R), faunal tracks (P) and small mounds. Shells encrusted with pink coralline algae (R), possible detrital/diatom film (F).	SS.SCS./CS	SB:GS	
S8_V3_17.05	Megaripples of coarse sand (42%), shell gravel (40%) and maerl gravel (10%) with live maerl (c.3%) and shells (5%) including <i>Ensis</i> .	Sparse live maerl (c.3% (R) at least locally). Shells encrusted with pink coralline algae (R). Bivalve siphons (P), <i>Asterias rubens</i> (P), filamentous algae (O, possibly largely dead).	SS.SCS.CCS	SB:GS	
S9_V1_17.01	Sand-scoured and dusted bedrock (80%) and boulders (20%).	Rock with apparently a dense faunal turf (A) including <i>Flustra foliacea</i> (P), foliose red algae (O) and pink encrusting coralline algae (R). <i>Cliona celata</i> (R), <i>Urticina</i> spp.(P), <i>Caryophyllia smithii</i> (F locally), Ophiuroidea sp. (P), <i>Aplidium punctum</i> (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S9_V1_17.02	Medium sand.	Brown detrital dusting or diatom film (C), crab pit.	SS.SCS./CS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S9_V1_17.03	Megarippled coarse sand (60%) and shell gravel (30%) with shells (10%) concentrated in troughs.	Bleached filamentous algae? (O), live maerl (<1%, R)	SS.SCS.CCS	SB:GS	
S9_V1_17.04	Slightly rippled medium sand.	No biota discernible.	SS.SCS./CS	SB:GS	
S9_V1_17.05	Megaripples of coarse sediment with shells (5%) in troughs.	Poor visibility. No biota discernible.	SS.SCS.CCS	SB:GS	
S9_V1_17.06	Medium sand with scatter of shell gravel (3%) and maerl gravel (2%) and shells (<1%) including <i>Ensis</i> .	Brown detrital dusting or diatom film (C).	SS.SCS./CS	SB:GS	
S9_V1_17.07	Sand-scoured and dusted bedrock (90%), boulders (5%) and sand pockets (5%).	Rock with apparently a dense faunal turf (S) including <i>Flustra foliacea</i> (O). <i>Cliona celata</i> (R), <i>Echinus esculentus</i> (P).	CR.HCR.XFa.FluCoAs	RF:BR	
S9_V1_17.08	Megaripples of coarse sediment with shells (2%) and shell gravel in troughs.	Poor visibility. No biota discernible.	SS.SCS.CCS	SB:GS	
S9_V1_17.09	Sand-scoured and dusted bedrock (95%) with sand pockets (5%).	Rock with apparently a dense faunal turf (S) including <i>Flustra foliacea</i> (O). <i>Cliona celata</i> (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S9_V1_17.10	Medium sand (85%) with coarse sand (15%).	Brown detrital dusting or diatom film (C), emergent infaunal tubes (P).	SS.SCS./CS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S9_V1_17.11	Megaripples of coarse sand (45%) and shell gravel (45%) with maerl gravel (3%), shells (5%) and live maerl (2%).	Live maerl around 2% (R) although possibly reaching 5% locally. <i>Pecten maximus</i> (O), bleached or largely dead filamentous algae (F).	SS.SCS.CCS	SB:GS	
S9_V1_17.12	Slightly rippled medium sand.	Poor visibility. <i>Cancer pagurus</i> (P).	SS.SCS.ICS	SB:GS	
S9_V1_17.13	Megaripples of coarse sand (45%) and shell gravel (45%) with maerl gravel (3%), shells (4%) and live maerl (3%).	Live maerl around 3% (R) although possibly reaching 5% locally. Bleached or largely dead filamentous algae (F).	SS.SCS.CCS	SB:GS	
S9_V1_17.14	Sand-scoured and dusted bedrock (95%) and sand pockets (5%).	Rock with apparently a dense faunal turf (S) including <i>Flustra foliacea</i> (O), <i>Alcyonium digitatum</i> (R) and <i>Aplidium punctum</i> (R); foliose red algae (O). <i>Cliona celata</i> (R), <i>Crossaster papposus</i> (P), <i>Marthasterias glacialis</i> (P), <i>Echinus esculentus</i> (F), pink encrusting coralline algae (R), small <i>Laminaria hyperborea</i> (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S9_V1_17.15	Megaripples of coarse sand (55%) and shell gravel (25%) with maerl gravel (3%), shells (2%) and live maerl (10%) with small bedrock outcrops (5%).	Live maerl possibly reaching 10% (F) at least locally. Bleached or largely dead filamentous algae (F), encrusting pink coralline algae (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S9_V2_17.01	Fine-medium sand. Very sparse shells include <i>Ensis</i> .	Sediment covered with brown detrital dusting or diatom film (A). <i>Cerianthus lloydii</i> (P), <i>Pecten maximus</i> (R), <i>Luidia ciliaris</i> (O), petaloid traces in film similar to those produced by the echiuran <i>Maxmuelleria</i> - but no mounds.	SS.SCS.ICS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S9_V2_17.02	Megaripples of coarse sand (40%) and shell gravel (38%) with maerl gravel (10%), shells (2%) and live maerl (10%).	Poor visibility. Live maerl possibly around 10% (F) but could be significantly greater, present in troughs and scattered over crests. Bleached or largely dead filamentous algae (F).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S9_V2_17.03	Low relief scoured bedrock (75%) partly sediment covered (25%).	Poor visibility but rock with apparently a dense faunal turf (S) including <i>Flustra foliacea</i> (P).	CR.HCR.XFa.FluCoAs	RF:BR	
S9_V2_17.04	Poor visibility but coarse sand and gravel with live maerl (20%).	Poor visibility. Live maerl possibly around 20% (C), concentrated in troughs but also more widely scattered.	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S9_V3_17.01	Slightly rippled medium sand. Very sparse shells include <i>Ensis</i> .	Sediment covered with brown detrital dusting or diatom film (A).	SS.SCS./CS	SB:GS	
S9_V3_17.02	Megaripples of coarse sand (46%) and shell gravel (46%) with shells (4%) and live maerl (4%) concentrated in troughs.	Live maerl around 4% (R).	SS.SCS.CCS	SB:GS	
S9_V3_17.03	Medium sand. Very sparse shells include <i>Ensis</i> .	Sediment covered with brown detrital dusting or diatom film (A), as well as larger phytal detritus. <i>Cerianthus lloydii</i> (P), <i>Cancer pagurus</i> (P), <i>Pecten maximus</i> (R), <i>Asterias rubens?</i> (P).	SS.SCS./CS	SB:GS	
S9_V3_17.04	Low-relief, sand-scoured and heavily-dusted bedrock.	Rock with apparently a dense faunal turf (S) including <i>Flustra foliacea</i> (P), hydroids (P) and <i>Aplidium punctum</i> (R). <i>Cliona celata</i> (R), <i>Urticina</i> sp. (P), pink encrusting coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S9_V3_17.05	Medium sand.	Sediment covered with brown detrital dusting or diatom film (A), as well as larger phytal detritus.	SS.SCS./ICS	SB:GS	
S9_V4_17.01	Medium sand with sparse shells including <i>Ensis</i> .	Sediment covered with brown detrital dusting or diatom film (A), as well as larger phytal detritus and exhibiting some mounds and possible faunal tracks. <i>Cancer pagurus</i> (P), <i>Pecten maximus</i> (P).	SS.SCS./ICS	SB:GS	
S9_V4_17.02	Low-relief, sand-scoured bedrock with sand patches (5%).	Rock with apparently a dense faunal turf (S). <i>Cliona celata</i> (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S9_V4_17.03	Medium sand with sparse shells including <i>Ensis</i> .	Sediment covered with brown detrital dusting or diatom film (A), as well as larger phytal detritus. <i>Pecten maximus</i> (P).	SS.SCS./ICS	SB:GS	
S9_V4_17.04	Low-relief, sand-scoured and heavily-dusted bedrock.	Rock with apparently a dense faunal turf (A) including <i>Flustra foliacea</i> (P). Pink encrusting coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S9_V4_17.05	Megaripples of coarse sand (60%) and shell gravel (36%) with shells (4%) including <i>Ensis</i> concentrated in troughs.	No biota discernible.	SS.SCS.CCS	SB:GS	
S9_V4_17.06	Sand-scoured and dusted bedrock with sand patches (5%).	Rock with apparently a dense faunal turf (S) including <i>Flustra foliacea</i> (P), <i>Clavelina lepadiformis</i> (P) and <i>Aplidium punctum</i> (R), and a red algal turf (C) with sparse small <i>Laminaria hyperborea</i> (O). <i>Cliona celata</i> (R), <i>Asterias rubens</i> (P), <i>Luidia ciliaris</i> (P), Ascidiacea sp. (P), pink encrusting coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S9_V4_17.07	Medium sand with scattered shell gravel (5%) and sparse shells including <i>Ensis</i> and small bedrock outcrop (<1%).	Sediment covered with brown detrital dusting or diatom film (A), as well as larger phytal detritus. <i>Asterias rubens</i> (P).	SS.SCS./ICS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S10_V1_17.01	Clean medium-coarse sand, locally in slight ripples and megaripples, with shell gravel (5%), shells (1%) including <i>Ensis</i> , and live maerl (1%).	Much kelp and other algal debris. Shells encrusted with pink coralline algae (R) and serpulid worms (R). <i>Asterias rubens</i> (F), <i>Luidia ciliaris</i> (P), filamentous algae (R, possibly dead), live maerl (<1%) including some large medallions.	SS.SCS.ICS	SB:GS	
S10_V1_17.02	Dense shells (60%) including <i>Ensis</i> and scattered cobbles (<1%) and pebbles (<1%) on medium-coarse sand (32%) and shell gravel (5%) with live maerl around 3%.	Shells and stones encrusted with pink coralline algae (F), red algae (R), serpulid worms (P) and <i>Balanus</i> spp. (O) and supporting short faunal and/or algal turf including foliose red algae (R) and filiform red algae (R) and <i>Dendrodoa grossularia</i> (R). <i>Cancer pagurus</i> (P), <i>Ophiura albida</i> (P), <i>Asterias rubens</i> (F). Live maerl present in the form of hedgehog stones, possibly reaching around 5% locally but seemingly less overall (c.3%).	SS.SMx.CMx	SB:MX	
S10_V1_17.03	Slightly rippled medium sand with initially scatter of pebbles (<1%), cobbles (<1%), shells (<1%) including <i>Ensis</i> and live maerl (<1%).	Shells and stones encrusted with pink coralline algae (R) and serpulid worms (R) and support hydroids (R), foliose red algae (R) and filamentous algae (R, possibly dead). Bivalve siphons (P), <i>Asterias rubens</i> (P), Ammodytidae spp. (P, 2 specimens seen), live maerl (<1%, R).	SS.SCS.ICS	SB:GS	SE?
S10_V2_17.01	Slightly rippled medium sand with scattered shell gravel (5%).	Sand with possible <i>Ensis</i> depressions (P).	SS.SCS.ICS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S10_V2_17.02	Megarippled coarse sand (77%) and shell gravel (10%) with shells (3%) including <i>Ensis</i> and live maerl (10%) concentrated in troughs.	Large medallions of live maerl possibly reaching up to 10% (F) at least locally. <i>Asterias rubens</i> (F), <i>Luidia ciliaris</i> (F), foliose red algae (R), <i>Desmarestia</i> sp. (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S10_V2_17.03	Medium sand with varying amounts of shell gravel (overall 5%) and shells (<1%) including <i>Ensis</i> .	Live maerl generally sparse (<1%, R) but small patches of richer cover (perhaps 3%). Filamentous algae (R, largely bleached) and foliose red algae (R), hydroid spp. (R) including <i>Sertularia</i> sp., <i>Pecten maximus?</i> (P), <i>Asterias rubens</i> (O), drift kelp.	SS.SCS.ICS	SB:GS	
S10_V3_17	Medium sand with varying amounts of shell gravel (overall 5%), pebbles (<1%) and shells (<1%) including <i>Ensis</i> .	Scattered medallions of live maerl (<1% overall, R). Filamentous algae (R, largely bleached). <i>Cerianthus lloydii?</i> (P), <i>Cancer pagurus</i> (P), <i>Pecten maximus</i> (R), bivalve siphons (P), <i>Asterias rubens</i> (F), <i>Luidia ciliaris</i> (P), drift kelp and smaller algae. Pebbles and shells with encrusting pink coralline algae (R) and serpulid worms (R). Many lines in sand, probably caused by kelp dragging.	SS.SCS.ICS	SB:GS	
S11_V1_17.01	Muddy sand (80%) with scattered shell gravel (10%) and coarse sand (10%).	Scattered hydroids (O), <i>Alcyonium digitatum</i> (R).	SS.SSa.OSa		
S11_V1_17.02	Sand-scoured and dusted bedrock.	Rock with apparently a dense faunal turf (S) including <i>Flustra foliacea</i> (F) and <i>Alcyonium digitatum</i> (R), <i>Echinus esculentus</i> (P). Pink encrusting coralline algae (R).	CR.HCR.XFa	RF:BR	
S11_V1_17.03	Muddy sand (80%) with scattered shell gravel (10%) and coarse sand (10%) and pebbles or cobbles.	Shell material and stones support tufts of hydroids (O) including <i>Halecium</i> sp., bryozoans (P) including <i>Securiflustra securifrons</i> (P) and <i>Caryophyllia smithii</i> (P). Paguridae sp. (P), Pleuronectiformes sp. (P).	SS.SSa.OSa		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S11_V1_17.04	Sand-scoured and dusted bedrock with sand pockets (1%).	Rock with apparently a dense faunal turf (S) including <i>Flustra foliacea</i> (F) and <i>Halecium</i> sp. (P), <i>Alcyonium digitatum</i> (R) and <i>Pentapora foliacea</i> (F). <i>Cliona celata</i> (R), Paguridae sp. (P), <i>Munida rugosa</i> (P), <i>Cancer pagurus</i> (O), <i>Luidia ciliaris</i> (P), <i>Ascidia mentula</i> (P). Rock encrusted with <i>Parasmittina trispinosa?</i> (R) and pink coralline algae (R).	CR.HCR.XFa	RF:BR	
S11_V1_17.05	Muddy sand (80%) with scattered shell gravel (10%) and coarse sand (10%) and pebbles or cobbles.	Shell material and stones support faunal tufts (F) of hydroids including <i>Halecium</i> sp., <i>Alcyonium digitatum</i> (R) and bryozoans including <i>Flustra foliacea</i> (R), and <i>Caryophyllia smithii</i> (O). <i>Chaetopterus variopedatus?</i> (P), Paguridae sp. (P), <i>Pecten maximus</i> (P), <i>Callionymus</i> sp. (P), Pleuronectiformes sp. (P).	SS.SSa.OSa		
S11_V1_17.06	Sand-scoured and dusted bedrock with sand pockets (1%).	Rock with a dense faunal turf (S) including <i>Flustra foliacea</i> (F) and <i>Halecium</i> sp. (P), <i>Alcyonium digitatum</i> (R) and <i>Pentapora foliacea</i> (O). <i>Munida rugosa</i> (P), <i>Porania pulvillus</i> (R). Rock encrusted with pink coralline algae (R).	CR.HCR.XFa	RF:BR	
S11_V1_17.07	Muddy sand (90%) with scattered shell gravel (10%).	Shell material supports faunal tufts (F) of hydroids and probably bryozoans, <i>Alcyonium digitatum</i> (R) and <i>Caryophyllia smithii</i> (O, locally C). Paguridae spp. (O), <i>Munida rugosa</i> (R), <i>Pecten maximus</i> (O), <i>Ophiura</i> sp. (P), <i>Luidia ciliaris</i> (P). Lost creel and rope.	SS.SSa.OSa		
S11_V1_17.08	Sand-scoured and dusted bedrock.	Rock with a dense faunal turf (S) including <i>Flustra foliacea</i> (P), <i>Alcyonium digitatum</i> (R) and <i>Diazona violacea</i> (P). Rock encrusted with <i>Cliona celata</i> (R), <i>Parasmittina trispinosa?</i> (R) and pink coralline algae (R).	CR.HCR.XFa	RF:BR	
S11_V1_17.09	Muddy sand (90%) with scattered shell gravel (10%).	Shell material supports faunal tufts (O) of hydroids and possibly bryozoans.	SS.SSa.OSa		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S11_V1_17.10	Sand-scoured and dusted bedrock with sand pockets (1%).	Rock with a dense faunal turf (S) including <i>Flustra foliacea</i> (F), <i>Halecium</i> sp. (P), <i>Abietinaria abietina</i> (P), <i>Nemertesia ramosa</i> (F), <i>N. antennina</i> (P), <i>Alcyonium digitatum</i> (R) and <i>Pentapora foliacea</i> (F locally). <i>Cliona celata</i> (R), branching sponge (P), <i>Caryophyllia smithii</i> (locally F), <i>Munida rugosa</i> (P), <i>Marthasterias glacialis</i> (P), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (P), <i>Ascidia mentula</i> (P), <i>A. virginea</i> (P), <i>Trisopterus</i> sp.? (P). Rock encrusted with <i>Parasmittina trispinosa</i> ? (R) and pink coralline algae (R). Lost creel and rope.	CR.HCR.XFa	RF:BR	
S11_V1_17.11	Muddy sand (85%) with scattered shell gravel (15%) and some pebbles.	Shell material and stones support faunal tufts (F) of hydroids and bryozoans, <i>Alcyonium digitatum</i> (R) and <i>Caryophyllia smithii</i> (P). Paguridae sp. (P).	SS.SSa.OSa		
S11_V1_17.12	Sand-scoured boulders (40%) and bedrock (20%) amongst gravelly (5%) muddy sand (35%).	Rock with faunal turf (S) including hydroids and bryozoans including <i>Pentapora foliacea</i> (P). <i>Munida strigosa</i> (P), <i>Ascidia</i> sp. (P). Rock encrusted with <i>Parasmittina trispinosa</i> ? (R) and pink coralline algae (R).	CR.HCR.XFa	RF:BR	
S11_V1_17.13	Muddy sand (83%) with scattered shell gravel (15%) and small patch of largely sediment-blanketed bedrock (2%).	Shell material and stones support faunal tufts (O) of hydroids and probably bryozoans. <i>Flustra foliacea</i> (P) on rock. <i>Caryophyllia smithii</i> (O).	SS.SSa.OSa		
S11_V1_17.14	Sand-blanketed bedrock with around 65% rock emergent	Rock with a dense faunal turf (S) including <i>Flustra foliacea</i> (F), <i>Halecium</i> sp. (P), <i>Nemertesia ramosa</i> (P), <i>N. antennina</i> (P), <i>Alcyonium digitatum</i> (R) and <i>Pentapora foliacea</i> (P). <i>Urticina</i> sp. (P), <i>Caryophyllia smithii</i> (O). Rock encrusted with orange sponge? (R) and pink coralline algae (R).	CR.HCR.XFa	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S11_V1_17.15	Muddy sand (85%) with scattered shell gravel (15%).	Shell material and possibly stones support faunal tufts (O) of hydroids and possibly bryozoans, <i>Alcyonium digitatum</i> (R) and <i>Caryophyllia smithii</i> (O). <i>Pecten maximus</i> (P), <i>Ophiura</i> sp. (P), <i>Porania pulvillus</i> (P).	SS.SSa.OSa		
S11_V1_17.16	Sand-scoured and dusted bedrock with sand pockets (5%).	Rock with a dense faunal turf (S) including <i>Flustra foliacea</i> (O), hydroids (P) and <i>Pentapora foliacea?</i> (P). <i>Cliona celata</i> (R), orange encrusting sponge? (R), <i>Echinus esculentus</i> (P).	CR.HCR.XFa	RF:BR	
S11_V1_17.17	Muddy sand (85%) with scattered shell gravel (15%) and boulder (<1%).	Shell material and possibly stones support faunal tufts (O) of hydroids and possibly bryozoans. <i>Pecten maximus?</i> (P).	SS.SSa.OSa		
S11_V1_17.18	Sand-blanketed bedrock with around 80% rock emergent.	Rock with a dense faunal turf (S) including <i>Flustra foliacea</i> (P) and hydroids including <i>Nemertesia antennina</i> (P). Rock encrusted with orange sponge? (R) and pink coralline algae (R).	CR.HCR.XFa	RF:BR	
S11_V1_17.19	Muddy sand (85%) with scattered shell gravel (15%) with occasional small bedrock outcrops (<1%).	Shell material and possibly stones support faunal tufts (O) of hydroids and possibly bryozoans, <i>Alcyonium digitatum</i> (R) and <i>Caryophyllia smithii</i> (O). Paguridae spp. (F, locally C), <i>Munida rugosa</i> (P), <i>Pecten maximus</i> (P), <i>Ophiura ophiura</i> (P).	SS.SSa.OSa		
S11_V1_17.20	Sand-scoured bedrock.	Rock with a dense faunal turf (A) including at least hydroids (P). <i>Cliona celata</i> (R), <i>Caryophyllia smithii</i> (F), <i>Parasmittina trispinosa?</i> (R).	CR.HCR.XFa	RF:BR	
S11_V2_17.01	Muddy sand (85%) with scattered shell gravel (15%), shells (<1%) including <i>Ensis</i> , and occasional boulders (<1%).	Sparse faunal tufts (R) of probably hydroids and bryozoans, <i>Alcyonium digitatum</i> (R) and <i>Caryophyllia smithii</i> (P). <i>Munida rugosa</i> (P), <i>Pecten maximus</i> (P), <i>Botryllus schlosseri?</i> (R), foliose red algae (R). Sediment with small holes and emergent infaunal tubes.	SS.SSa.OSa		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S11_V2_17.02	Sand-scoured and dusted bedrock with muddy sand patches (5%).	Rock with a faunal turf (A) including <i>Flustra foliacea</i> (O, locally F), <i>Securiflustra securifrons?</i> (P), hydroids (P) and <i>Pentapora foliacea?</i> (O); turf also contains foliose red algae (C). <i>Cliona celata</i> (R), orange branching sponge (R), <i>Henricia</i> sp. (R), yellow branching sponge? (R), encrusting pink coralline algae (R).	CR.HCR.XFa	RF:BR	
S11_V2_17.03	Muddy sand (85%) with scattered shell gravel (15%), shells (<1%) including <i>Ensis</i> , and pebbles (<1%); coarse material increases markedly towards end of run.	Sparse faunal tufts (R) of probably hydroids and bryozoans. Sediment with emergent infaunal tubes.	SS.SSa.OSa		
S11_V2_17.04	Sand-scoured and dusted bedrock with muddy sand patches (5%).	Rock with a faunal turf (S) including <i>Flustra foliacea</i> (F), <i>Securiflustra securifrons</i> (F) and hydroids (P). <i>Cliona celata</i> (R), <i>Caryophyllia smithii</i> (F, locally C), branching sponge (R), <i>Marthasterias glacialis</i> (P), encrusting pink coralline algae (R). Probably single colony of <i>Swiftia pallida</i> (R).	CR.HCR.XFa	RF:BR	NS:SP
S11_V2_17.05	Muddy sand (95%) with scattered coarse sand (5%), cobbles (<1%) and a small bedrock outcrop (<1%).	Sparse faunal tufts (R) of probably hydroids and bryozoans and <i>Caryophyllia smithii</i> (R). <i>Cliona celata</i> (R), <i>Ophiura ophiura</i> (O). Sediment with emergent infaunal tubes.	SS.SSa.OSa		
S11_V2_17.06	Sand-scoured and dusted bedrock with muddy sand patches (5%).	Rock with a faunal turf (S) including <i>Flustra foliacea</i> (F), <i>Securiflustra securifrons</i> (P), <i>Alcyonium digitatum</i> (R) and hydroids (P). Encrusting orange sponge (R).	CR.HCR.XFa	RF:BR	
S11_V2_17.07	Muddy sand with small bedrock outcrop (<1%).	Sparse faunal tufts (R) of probably hydroids and bryozoans. <i>Toxisarcon alba?</i> (P), <i>Suberites</i> sp.? (R), Sediment with emergent infaunal tubes.	SS.SSa.OSa		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S11_V2_17.08	Sand-scoured and dusted bedrock with muddy sand patches (5%).	Rock with a faunal turf (S) including <i>Flustra foliacea</i> (P), <i>Securiflustra securifrons</i> (P) and hydroids (P). Encrusting orange sponge (R).	CR.HCR.XFa	RF:BR	
S11_V2_17.09	Muddy sand.	Poor visibility. No biota clearly discernible.	SS.SSa.OSa		
S11_V2_17.10	Bedrock outcrops (50%) and boulders (5%) amongst muddy sand (45%).	Rock with a faunal turf (S) including <i>Flustra foliacea</i> (P) and hydroids (P). Encrusting yellow sponge or possibly <i>Parasmittina trispinosa</i> (R).	CR.HCR.XFa, SS.SSa.OSa	RF:BR	
S11_V2_17.11	Muddy sand (85%) with scattered shell gravel (10%) and small bedrock outcrops (5%).	Faunal tufts (O) of probably hydroids and bryozoans. <i>Caryophyllia smithii</i> (P).	SS.SSa.OSa		
S11_V2_17.12	Sand-scoured and dusted bedrock.	Rock with a faunal turf (S) including <i>Flustra foliacea</i> (F), <i>Alcyonium digitatum</i> (R) and hydroids (P) and foliose red algae (R). <i>Cliona celata</i> (R), encrusting pink coralline algae (R) and yellow sponge or possibly <i>Parasmittina trispinosa</i> (R), <i>Cancer pagurus</i> (P), <i>Eledone cirrhosa</i> (P).	CR.HCR.XFa	RF:BR	
S11_V2_17.13	Muddy sand.	Poor visibility. Sparse faunal clumps of bryozoans and/or hydroids (R)	SS.SSa.OSa		
S11_V2_17.14	Sand-scoured and dusted bedrock.	Rock with a faunal turf (S) including <i>Flustra foliacea</i> (F), <i>Securiflustra securifrons</i> (P), <i>Alcyonium digitatum</i> (R) and hydroids (P). <i>Cliona celata</i> (R), <i>Porella compressa?</i> (R), encrusting pink coralline algae (R) and encrusting yellow sponge or possibly <i>Parasmittina trispinosa</i> (R).	CR.HCR.XFa	RF:BR	
S11_V2_17.15	Muddy sand with scattered shell gravel (10%).	Poor visibility. <i>Luidia ciliaris</i> (P).	SS.SSa.OSa		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S11_V2_17.16	Sand-scoured and dusted bedrock with muddy sand patches (10%).	Rock with a faunal turf (S) including <i>Flustra foliacea</i> (F) and hydroids (P). <i>Cliona celata</i> (R), <i>Pentapora foliacea?</i> (P), <i>Echinus esculentus</i> (F), encrusting pink coralline algae (R) and yellow sponge or possibly <i>Parasmittina trispinosa</i> (R).	CR.HCR.XFa	RF:BR	
S11_V2_17.17	Muddy sand.	Poor visibility. Sparse faunal clumps of bryozoans and/or hydroids (O)	SS.SSa.OSa		
S11_V2_17.18	Sand-scoured and dusted bedrock.	Rock with a faunal turf (S) including <i>Flustra foliacea</i> (F), <i>Securiflustra securifrons</i> (P), <i>Alcyonium digitatum</i> (R) and hydroids (P). <i>Cliona celata</i> (R), encrusting yellow sponge or possibly <i>Parasmittina trispinosa</i> (R).	CR.HCR.XFa	RF:BR	
S11_V2_17.19	Muddy sand with bedrock outcrop (<1%).	Sparse faunal clumps of bryozoans and/or hydroids (R), <i>Alcyonium digitatum?</i> (R), <i>Pecten maximus</i> (P), <i>Ophiura ophiura</i> (P), <i>Asterias rubens</i> (P), <i>Luidia ciliaris</i> (P), emergent infaunal tubes (P).	SS.SSa.OSa		
S11_V2_17.20	Sand-scoured and dusted bedrock with muddy sand patches (10%).	Rock with a faunal turf (S) including <i>Flustra foliacea</i> (F) and hydroids (P). <i>Cliona celata</i> (R), <i>Axinella infundibuliformis</i> (R), <i>Caryophyllia smithii</i> (O), <i>Porella compressa?</i> (R), <i>Alcyonidium diaphanum</i> (P), <i>Asterias rubens?</i> (P), <i>Echinus esculentus</i> (P), <i>Ascidia</i> sp. (P), <i>Diazona violacea</i> (P), encrusting pink coralline algae (R). Single colony of <i>Swiftia pallida</i> probably present (R).	CR.HCR.XFa	RF:BR	NS:SP
S11_V2_17.21	Muddy sand.	Sparse faunal clumps of bryozoans (O) and possibly hydroids (P). <i>Alcyonium digitatum?</i> (R), <i>Caryophyllia smithii</i> (O).	SS.SSa.OSa		
S11_V2_17.22	Sand-scoured and dusted bedrock with muddy sand patches (5%).	Rock with a faunal turf (S) including <i>Flustra foliacea</i> (F, locally C), hydroids (P) and <i>Swiftia pallida</i> (F, locally C). <i>Cliona celata</i> (R), <i>Axinella infundibuliformis</i> (O), <i>Polymastia boletiformis</i> (R, locally O), yellow branching sponge (R), <i>Caryophyllia smithii</i> (locally C), <i>Porella compressa?</i> (R), <i>Luidia ciliaris</i> (P), <i>Diazona violacea</i> (F), encrusting pink coralline algae and <i>Parasmittina trispinosa?</i> (R).	CR.HCR.XFa.SwiLgAs	RF:BR	NS:MT, NS:SP
S11_V2_17.23	Muddy sand.	Sparse faunal clumps of bryozoans (O) and possibly hydroids (P). Yellow sponge (<i>Polymastia boletiformis?</i>) (R), <i>Myxicola infundibulum</i> (P), <i>Pecten maximus</i> (P), <i>Luidia ciliaris</i> (P).	SS.SSa.OSa		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S11_V2_17.24	Sand-scoured and dusted bedrock with muddy sand patch (1%).	Rock with a faunal turf (S) including <i>Flustra foliacea</i> (F), <i>Alcyonidium diaphanum</i> (P) and hydroids (P) including <i>Nemertesia antennina</i> and red algal turf (F). <i>Cliona celata</i> (R), <i>Echinus esculentus</i> (F).	CR.HCR.XFa	RF:BR	
S2_V1_18.01	Flat area of medium and coarse sand (60%) and shell gravel (39%) with scattered shells (1%) including <i>Ensis</i> .	Hydroid clumps (O) including <i>Nemertesia</i> sp., bryozoan clumps? (R), red algal clumps (R), <i>Alcyonium digitatum</i> (R), <i>Luidia ciliaris</i> (P), infaunal tubes (P). Shells encrusted with pink coralline algae (R) and red algae (R) and serpulid worms (P). Sparse live maerl thalli (<1%, R).	SS.SCS.CCS	SB:GS	
S2_V1_18.02	Sand-scoured bedrock.	Turf of hydroids (A) with <i>Nemertesia ramosa</i> (P) and possibly bryozoans, and red algal turf (F). <i>Cliona celata</i> (R), <i>Urticina</i> sp. (P), <i>Caryophyllia smithii</i> (C), encrusting pink coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S2_V1_18.03	Medium sand (85%) with surface scatter of coarse sand (15%)	Small shoal of teleost fry.	SS.SCS./CS	SB:GS	
S2_V1_18.04	Sand-scoured bedrock.	Turf of hydroids (A) with <i>Nemertesia ramosa</i> (P) and <i>N. antennina</i> (P) and possibly bryozoans, <i>Laminaria hyperborea</i> (F) and red algal turf (C). <i>Cliona celata</i> (R), <i>Caryophyllia smithii</i> (F locally), <i>Asterias rubens</i> (P, including possible juveniles), <i>Luidia ciliaris</i> (P), <i>Ascidia mentula?</i> (P), encrusting pink coralline algae (R).	IR.HIR.KSed.XKScrR	RF:BR	
S2_V1_18.05	Flat area of medium and coarse sand (60%) and shell gravel (38%) with scattered shells (2%) including <i>Ensis</i> .	Hydroid clumps (O), red algal clumps (R), infaunal tubes (P), small <i>Brachyura</i> sp. (P), <i>Callionymus</i> sp. (P). Shells encrusted with pink coralline algae (R) and red algae (R) and serpulid worms (P). Sparse live maerl thalli (<1%, R).	SS.SCS.CCS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S2_V1_18.06	Mosaic of small scoured bedrock outcrops (60%) separated by patches of predominantly coarse sand (40%).	Faunal turf (A) of hydroids with <i>Nemertesia ramosa</i> (P) and probably bryozoans mixed with red algal turf (A) and <i>Dictyota dichotoma?</i> (P). <i>Alcyonium digitatum</i> (R), encrusting pink coralline algae (R).	CR.HCR.XFa.FluCoAs, SS.SCS.CCS	SB:GS	
S2_V1_18.07	Flat area of coarse sand (55%) and shell gravel (43%) with scattered shells (2%).	Hydroid clumps (O), including <i>Nemertesia</i> spp. and red algal clumps (R). Shells encrusted with pink coralline algae (R) and serpulid worms (P). Sparse live maerl thalli (<1%, R).	SS.SCS.CCS	SB:GS	
S2_V1_18.08	Sand-scoured and heavily-dusted bedrock.	Faunal turf (A) of hydroids with <i>Nemertesia ramosa</i> (P) and probably bryozoans and some red algae (O). <i>Porania pulvillus</i> (P), <i>Luidia ciliaris</i> (P), encrusting pink coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S2_V1_18.09	Flat area of coarse sand (55%) and shell gravel (43%) with scattered shells (2%) including <i>Ensis</i> .	Hydroid clumps (R), <i>Cerianthus lloydii</i> (P). Shells encrusted with pink coralline algae. Sparse live maerl thalli (<1%, R).	SS.SCS.CCS	SB:GS	
S2_V1_18.10	Sand-scoured and heavily-dusted bedrock.	Faunal turf (A) of hydroids and probably bryozoans, and red algal turf (C). <i>Asterias rubens</i> (P), encrusting pink coralline algae (O).	CR.HCR.XFa.FluCoAs	RF:BR	
S2_V1_18.11	Flat area of coarse sand (70%) and shell gravel (28%) with scattered shells (2%) and pebbles (<1%).	Hydroid clumps (R), red algal clumps (R), <i>Cancer pagurus</i> (P), <i>Henricia</i> sp. (P), <i>Porania pulvillus</i> (P), <i>Luidia ciliaris</i> (P), infaunal tubes (P). Shells encrusted with pink coralline algae (R) and red algae (R), serpulid worms (P) and <i>Balanus</i> spp. (R). Sparse live maerl thalli (<1%, R).	SS.SCS.CCS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S2_V1_18.12	Sand-scoured bedrock. Camera skirts sediment towards end.	Faunal turf (C) of at least hydroids including <i>Nemertesia ramosa</i> and <i>N. antennina</i> , <i>Alcyonidium diaphanum</i> (P), and red algal turf (C, locally A), and <i>Dictyota dichotoma</i> (locally C). <i>Cliona celata</i> (R), <i>Alcyonium digitatum</i> (R), <i>Urticina</i> sp. (P), <i>Marthasterias glacialis</i> (P), encrusting pink coralline algae (R), serpulid worms (P), <i>Balanus</i> spp. (R), live maerl (<1% (R), <i>Laminaria hyperborea</i> (R), <i>Saccharina latissima</i> (R).	IR.HIR.KFaR.FoR	RF:BR	
S2_V1_18.13	Poorly mixed sediment of medium and coarse sand (78%) with scattered shell and stone gravel (20%), pebbles (1%), cobbles (<1%) and shells (1%) including <i>Ensis</i> .	Hydroid clumps (O) including <i>Nemertesia antennina</i> , red algal clumps (R), <i>Dictyota dichotoma</i> (R), <i>Saccharina latissima</i> (R), infaunal tubes (P), <i>Alcyonium digitatum</i> (R). Shells and stones encrusted with pink coralline algae (R), red algae (R), serpulid worms (P) and <i>Balanus crenatus</i> (R). Sparse live maerl thalli (<1%, R).	SS.SCS.CCS	SB:GS	
S2_V2_18.01	Flat area of coarse and medium sand (50%) and shell gravel (49%) with scattered shells (1%).	Hydroid clumps (O), red algal clumps (R), infaunal tubes (P), <i>Alcyonium digitatum</i> (R), <i>Ophiura</i> sp. (P), <i>Callionymus</i> sp. (P). Shells and gravel encrusted with pink coralline algae (R) and serpulid worms (P). Sparse live maerl thalli (<1%, R).	SS.SCS.CCS	SB:GS	
S2_V2_18.02	Sand-scoured and heavily-dusted bedrock with patches of coarse sand (3%).	Turf of hydroids and bryozoans (A) including <i>Nemertesia ramosa</i> (P), <i>N. antennina</i> , <i>Alcyonidium diaphanum</i> (C locally) and <i>Flustra foliacea</i> (O), <i>Pentapora foliacea</i> (P), with red algae (O). <i>Cliona celata</i> (R), <i>Alcyonium digitatum</i> (R), <i>Urticina felina</i> (P), <i>Caryophyllia smithii</i> (F locally), <i>Munida rugosa</i> (P), <i>Liocarcinus depurator</i> (P), <i>Antedon</i> sp. (P), <i>Asterias rubens</i> (O), <i>Luidia ciliaris</i> (P), <i>Ascidia mentula</i> (P), small teleost sp. (P), encrusting pink coralline algae (R), live maerl (<1%, R).	CR.HCR.XFa.FluCoAs	RF:BR	
S2_V2_18.03	Mixed coarse sediment.	Poor visibility. Pink encrusting coralline algae (R), hydroid tufts (R), <i>Caryophyllia smithii</i> ? (R).	SS.SCS.CCS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S2_V2_18.04	Sand-scoured bedrock with sand pockets (1%).	Turf of hydroids and bryozoans (A) including <i>Nemertesia ramosa</i> (P), <i>N. antennina</i> (P), <i>Alcyonidium diaphanum</i> (C), <i>Porella compressa?</i> (R) and <i>Flustra foliacea</i> (O), <i>Pentapora foliacea</i> (P), with red algae (O). <i>Cliona celata</i> (R), yellow, papillate sponge (R), <i>Alcyonium digitatum</i> (R), <i>Corynactis viridis</i> (P), <i>Caryophyllia smithii</i> (C locally), <i>Munida rugosa</i> (P), <i>Necora puber</i> (P), <i>Calliostoma zizyphinum</i> (P), <i>Antedon</i> spp. (A locally), <i>Asterias rubens?</i> (P), <i>Henricia</i> sp. (P), <i>Luidia ciliaris</i> (F), <i>Ascidia virginea</i> (P), encrusting pink coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S2_V2_18.05	Flat area of coarse and medium sand (38%) and shell gravel (60%) with scattered shells (2%) including <i>Ensis</i> .	Hydroid clumps (O) including <i>Nemertesia ramosa</i> , <i>Alcyonidium diaphanum</i> (P), pink coralline algae (R) and sparse live maerl thalli (<1%, R).	SS.SCS.CCS	SB:GS	
S2_V2_18.06	Sand-scoured bedrock (97%) with channels and sand pockets of coarse sand (2%) and shell gravel (1%).	Turf of hydroids and bryozoans (A) including <i>Nemertesia ramosa</i> (P), <i>N. antennina</i> (P), <i>Alcyonidium diaphanum</i> (P), <i>Flustra foliacea</i> (O), <i>Pentapora foliacea</i> (P), with red algae (F, locally C) and <i>Dictyota dichotoma</i> (P). <i>Cliona celata</i> (R), yellow branching sponge (R), <i>Alcyonium digitatum</i> (R), <i>Caryophyllia smithii</i> (F locally), <i>Balanus</i> spp. (P), <i>Munida rugosa</i> (P), <i>Ophiura albida</i> (P), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (P), <i>Ascidacea</i> sp. (P), encrusting pink coralline algae (R), <i>Saccharina latissima</i> (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S2_V2_18.07	Flat area of coarse and medium sand (50%) and shell gravel (48%) with scattered shells (2%). Camera skirts bedrock.	Hydroid clumps (O) including <i>Nemertesia ramosa</i> , <i>Alcyonium digitatum</i> (R), serpulid worms (P), <i>Pecten maximus</i> (O), <i>Luidia ciliaris</i> (P), infaunal tubes (P), shoal of teleost fry, pink coralline algae (R), foliose red algae (R) and sparse live maerl thalli (<1%, R).	SS.SCS.CCS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S2_V2_18.08	Sand-scoured and heavily-dusted bedrock with sand pockets (2%).	Turf of hydroids and bryozoans (A) including <i>Nemertesia antennina</i> (P), <i>Alcyonidium diaphanum</i> (P), <i>Flustra foliacea</i> (O), and red algae (O). <i>Caryophyllia smithii</i> (F locally), <i>Urticina</i> sp. (P), <i>Luidia ciliaris</i> (P), encrusting pink coralline algae (O).	CR.HCR.XFa.FluCoAs	RF:BR	
S2_V2_18.09	Medium and coarse sand (70%, shell gravel (28%), shells (2%) including <i>Ensis</i> .	Hydroid clumps (O) including <i>Nemertesia ramosa</i> , <i>Alcyonium digitatum</i> (R), <i>Munida rugosa</i> (O), <i>Pecten maximus</i> (O), <i>Luidia ciliaris</i> (P), infaunal tubes (P), small teleost spp. (P), pink coralline algae (R), sparse live maerl thalli (<1%, R).	SS.SCS.CCS	SB:GS	
S2_V2_18.10	Sand-scoured and heavily-dusted bedrock with sand pockets (2%).	Turf of hydroids and bryozoans (A) including <i>Nemertesia antennina</i> (P) and <i>N. ramosa</i> (P), <i>Alcyonidium diaphanum</i> (P), <i>Flustra foliacea</i> (O) and <i>Pentapora foliacea</i> (P), and foliose red algae (R). <i>Cliona celata</i> (R), <i>Alcyonium digitatum</i> (R), <i>Caryophyllia smithii</i> (F locally), <i>Balanus</i> spp. (P), <i>Munida rugosa</i> (P), <i>Porania pulvillus</i> . (P), <i>Henricia</i> sp. (P), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (P), encrusting pink coralline algae (R)., live maerl thalli (<1%, R).	CR.HCR.XFa.FluCoAs	RF:BR	
S2_V2_18.11	Flat area of coarse and medium sand (50%) and shell gravel (48%) with scattered shells (2%) including <i>Ensis</i> . Camera briefly skirts bedrock.	Hydroid clumps (O) including <i>Nemertesia ramosa</i> and <i>N. antennina</i> , <i>Alcyonium digitatum</i> (R), serpulid worms (P), <i>Luidia ciliaris</i> (P), infaunal tubes (P), shoal of teleost fry, pink coralline algae (R), red algal tufts (R), sparse live maerl thalli (<1%, R) and <i>Saccharina latissima</i> (R).	SS.SCS.CCS	SB:GS	
S2_V2_18.12	Sand-scoured bedrock.	Turf of hydroids and bryozoans (A) including <i>Nemertesia ramosa</i> (P), <i>N. antennina</i> (P), <i>Alcyonidium diaphanum</i> (P) and <i>Flustra foliacea</i> (O). <i>Cliona celata</i> (R), <i>Luidia ciliaris</i> (F), <i>Porania pulvillus</i> (P), encrusting pink coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S2_V2_18.13	Flat area of coarse and medium sand (50%) and shell gravel (48%) with scattered	Hydroid clumps (O) including <i>Nemertesia ramosa</i> and <i>N. antennina</i> , <i>Alcyonium digitatum</i> (R), serpulid worms (P), <i>Pecten maximus</i> (R), <i>Luidia ciliaris</i> (O), infaunal tubes (P), pink coralline algae (R), sparse live maerl thalli (<1%, R).	SS.SCS.CCS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
	shells (2%) including <i>Ensis</i> .				
S2_V2_18.14	Sand-scoured and heavily-dusted bedrock with sand pockets (1%).	Turf of hydroids and bryozoans (A) including <i>Nemertesia antennina</i> (P) and <i>N. ramosa</i> (P), and red algae (F). <i>Cliona celata</i> (R), <i>Caryophyllia smithii</i> (F locally), <i>Asterias rubens</i> (P), <i>Ascidia mentula</i> ? (P), encrusting pink coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S2_V2_18.15	Flat area of coarse and medium sand (50%) and shell gravel (48%) with scattered shells (2%) including <i>Ensis</i> .	Hydroid clumps (O), serpulid worms (P), infaunal tubes (P), pink coralline algae (R), sparse live maerl thalli (<1%, R)..	SS.SCS.CCS	SB:GS	
S2_V2_18.16	Sand-scoured and heavily-dusted bedrock with sand pockets (2%).	Turf of hydroids and bryozoans (A) including <i>Nemertesia antennina</i> (P), <i>N. ramosa</i> (P), <i>Alcyonidium diaphanum</i> (C locally) and <i>Flustra foliacea</i> (P), <i>Dictyota dichotoma</i> (P) and red algae (F). <i>Caryophyllia smithii</i> (F locally), serpulid worms (P), <i>Brachyura</i> sp. (P), <i>Asterias rubens</i> (O), <i>Luidia ciliaris</i> (P), encrusting pink coralline algae (R), live maerl thalli (<1%, R)..	CR.HCR.XFa.FluCoAs	RF:BR	
S2_V2_18.17	Flat area of coarse and medium sand (40%) and shell gravel (58%) with scattered shells (2%) including <i>Ensis</i> .	Infaunal tubes (P), <i>Luidia ciliaris</i> (P), small Asteroidea sp. (P), shoal of teleost fry (P), pink coralline algae (R), sparse live maerl thalli (<1%, R).	SS.SCS.CCS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S2_V2_18.18	Sand-scoured and heavily-dusted bedrock with sand pockets (3%).	Turf of hydroids and bryozoans (A) including <i>Nemertesia antennina</i> (P) and <i>N. ramosa</i> (P), <i>Dictyota dichotoma</i> (P) and red algae (F, locally C). <i>Cliona celata</i> (R), <i>Caryophyllia smithii</i> (P), <i>Pecten maximus?</i> (P), <i>Asterias rubens</i> (P), <i>Porania pulvillus</i> (P), <i>Luidia ciliaris</i> (O), <i>Henricia</i> sp. (P), small teleost sp. (P), encrusting pink coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S2_V2_18.19	Flat area of coarse sand (37%) and shell gravel (60%) with scattered shells (2%) and live maerl (1% overall). Camera crosses small bedrock outcrops (<1%).	Hydroid clumps (O) including <i>Nemertesia ramosa</i> , serpulid worms (P), infaunal tubes (P), pink encrusting coralline algae (R), live maerl (c.1%, R).	SS.SCS.CCS	SB:GS	
S2_V2_18.20	Low-relief, sand-scoured and heavily-dusted bedrock with sand pockets (5%).	Turf of hydroids and bryozoans (A) including <i>Nemertesia antennina</i> (P) and <i>N. ramosa</i> (P), and red algae (C). Encrusting pink coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S2_V2_18.21	Flat area of coarse sand (7%) and shell gravel (90%) with scattered shells (2%) and live maerl (1% overall).	Hydroid clumps (O) including <i>Nemertesia ramosa</i> and <i>Rhizocaulus verticillatus</i> , serpulid worms (P), infaunal tubes (P), <i>Pecten maximus</i> (P), foliose red algae (R), pink encrusting coralline algae (R), live maerl (c.1%, R).	SS.SCS.CCS	SB:GS	
S3_V1_18	Fine-medium sand (85%) with surface scatter of live maerl (c.3%), dead maerl (2%), shell gravel (5%) and shells and large shell material (5%).	Sediment with small mounds and pits, emergent infaunal tubes and film of brown detrital material or diatoms (C) and some faunal tracks. Shells with pink encrusting coralline algae (R). <i>Cerianthus lloydii</i> (O), live maerl (c.3%, R).	SS.SCS./CS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S3_V2_18.01	Sand-scoured bedrock.	Park of small <i>Laminaria hyperborea</i> (F) with turf of red algae (S) and <i>Dictyota dichotoma</i> (P). <i>Cliona celata</i> (R), <i>Caryophyllia smithii</i> (F locally), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (P), pink encrusting coralline algae (R).	IR.HIR.KSed.XKScrR	RF:BR	
S3_V2_18.02	Small patch of coarse sand and gravel.	<i>Luidia ciliaris</i> (P).	SS.SCS.CCS	SB:GS	
S3_V2_18.03	Sand-scoured bedrock.	Park of small <i>Laminaria hyperborea</i> (O) and <i>Saccharina latissima</i> (O) with turf of red algae (A) and <i>Dictyota dichotoma</i> (P), and hydroids including <i>Nemertesia ramosa</i> and <i>N. antennina</i> . <i>Cliona celata</i> (R), dense patches of <i>Antedon</i> spp. (locally A), pink encrusting coralline algae (R).	IR.HIR.KSed.XKScrR	RF:BR	
S3_V2_18.04	Megaripples of coarse sand (60%), shell gravel (20%) and maerl gravel (5%) with shells (5%) including <i>Ensis</i> , and live maerl (10%).	Live maerl around 10% (F) concentrated in troughs. Shells with serpulid worms (P), <i>Dictyota dichotoma</i> (R) and pink encrusting coralline algae (R). <i>Cerianthus lloydii</i> (P), <i>Liocarcinus</i> sp. (P), <i>Atelecyclus rotundatus</i> (P), infaunal tubes (P), bivalve siphons? (P), <i>Pecten maximus</i> (P), <i>Asterias rubens</i> (F), small shoal of small teleosts.	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S3_V2_18.05	Slightly rippled fine-medium sand with significant content of medium and coarse sand.	Film of diatoms or detritus (C).	SS.SCS.ICs	SB:GS	
S3_V2_18.06	Megaripples of coarse sand (60%), shell gravel (20%) and maerl gravel (5%) with shells (5%) and live maerl (10%).	Live maerl around 10% (F) possibly less, concentrated in troughs. Shells with pink encrusting coralline algae (R). <i>Atelecyclus rotundatus</i> (P).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S3_V2_18.07	Slightly rippled fine-medium sand with significant content of medium and coarse sand and sparse scattered shells (<1%) including <i>Ensis</i> .	Film of diatoms or detritus (C), infaunal tubes (P).	SS.SCS.ICCS	SB:GS	
S3_V3_18.01	Medium sand (73%) with coarse sand (5%), shell gravel (15%), dead maerl (5%), live maerl (<1%), shells (2%) including <i>Ensis</i> .	Sediment displaying small mounds and faunal tracks and with dusting of detritus or diatom film (A). Shell material encrusted with serpulid worms (P), pink coralline algae (R) and red algae (R) and supporting spares hydroids? (R). <i>Chaetopterus variopedatus?</i> (P), <i>Atelecyclus rotundatus?</i> (P), <i>Pecten maximus</i> (P).	SS.SCS.ICCS	SB:GS	
S3_V3_18.02	Megaripples of medium and coarse sand (78%) with shell gravel (15%), dead maerl (5%), live maerl (<1%) and shells (2%) including <i>Ensis</i> .	Shell material encrusted with pink coralline algae (R) and red algae (R). <i>Chaetopterus variopedatus?</i> (P), live maerl <1% (R).	SS.SCS.CCS	SB:GS	
S3_V3_18.03	Medium sand (88%) with coarse sand (5%), shell gravel (5%), live maerl (<1%), shells (2%) including <i>Ensis</i> .	Sediment displaying small mounds, worm casts and faunal tracks (and tracks probably produced by drift material) and with dusting of detritus or diatom film (A). Shell material encrusted with serpulid worms (P), pink coralline algae (R) and red algae (R) and supporting sparse hydroids and bryozoans including <i>Nemertesia ramosa</i> and <i>Alcyonidium diaphanum</i> (R). Infaunal tubes (P) including <i>Chaetopterus variopedatus</i> (C locally), <i>Atelecyclus rotundatus?</i> (P), <i>Cancer pagurus</i> (F) and its sand pits, <i>Turritella communis</i> shells with at least one hosting <i>Pagurus</i> sp.? (P), <i>Pecten maximus</i> (O), <i>Luidia ciliaris</i> (P), live maerl <1% (R).	SS.SCS.ICCS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S3_V4_18.01	Megaripples of medium and coarse sand (55%) with shell gravel (40%), live maerl (3%) and shells (2%) including <i>Ensis</i> .	Shell material encrusted with pink coralline algae (R), red algae (R) and serpulid worms (P). <i>Cerianthus lloydii</i> (P), <i>Urticina felina</i> (P), <i>Pecten maximus</i> (P), live maerl c.3% (R).	SS.SCS.CCS	SB:GS	
S3_V4_18.02	Sand-scoured bedrock.	Faunal turf (C) of hydroids including <i>Nemertesia ramosa</i> and bryozoans including <i>Flustra foliacea</i> (O) and red algal turf (A) including <i>Delesseria sanguinea</i> , and <i>Dictyota dichotoma</i> (O). <i>Cliona celata</i> (R), <i>Antiopella cristata</i> (P), encrusting pink coralline algae (R), <i>Balanus</i> spp. (P), <i>Antedon</i> spp. (C locally A), <i>Luidia ciliaris</i> (P), live maerl <1% (R). Much drift kelp but a few plants appear attached with <i>Laminaria hyperborea</i> (O) and <i>Saccharina latissima</i> (P).	IR.HIR.KFaR.FoR	RF:BR	
S3_V4_18.03	Medium sand (90%) with scattered shell gravel (10%) and live maerl (<1%)	Poor visibility. Sediment with dusting of detritus or diatom film (C). Live maerl <1% (R)	SS.SCS.ICS	SB:GS	
S3_V4_18.04	Megaripples of coarse sand (45%) with shell gravel (35%), live maerl (10%), dead maerl (5%) and shells (5%).	Shell material encrusted with pink coralline algae (R) and serpulid worms (P) and supporting sparse foliose red algal (R). <i>Liocarcinus</i> sp. (P), <i>Marthasterias glacialis</i> (P), <i>Asterias rubens</i> (P), <i>Luidia ciliaris</i> (P), live maerl 10% (F).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S3_V4_18.05	Medium sand (94%) with shell gravel (5%), live maerl (<1%), shells (1%) including <i>Ensis</i> .	Sediment displaying small mounds, worm casts including possible <i>Arenicola marina</i> (R) and faunal tracks and with dusting of detritus or diatom film (A). Shell material encrusted with pink coralline algae (R) and supporting sparse hydroids (O) and foliose red algae (R). Infaunal tubes (P), <i>Atelecyclus rotundatus?</i> (P), <i>Pecten maximus</i> (R), live maerl <1% (R). Dense kelp debris at end of run.	SS.SCS.ICS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S3_V4_18.06	Sand-scoured bedrock.	Faunal turf (C-A) of hydroids including <i>Nemertesia antennina</i> and bryozoans including <i>Flustra foliacea</i> and <i>Securiflustra securifrons</i> and red algal turf (A) and <i>Dictyota dichotoma</i> (O). <i>Cliona celata</i> (R), <i>Urticina</i> sp. (P), <i>Laminaria hyperborea</i> (O).	IR.HIR.KFaR.FoR	RF:BR	
S3_V4_18.07	Medium sand (94%) with shell gravel (5%), live maerl (<1%), shells (1%) including <i>Ensis</i> .	Sediment displaying small mounds and faunal tracks and with dusting of detritus or diatom film (A). Shell material encrusted with pink coralline algae (R) and supporting sparse red algae (R). Infaunal tubes (P) including <i>Chaetopterus variopedatus</i> , <i>Atelecyclus rotundatus?</i> (P), <i>Luidia ciliaris</i> (P), live maerl <1% (R).	SS.SCS./CS	SB:GS	
S3_V4_18.08	Megaripples of coarse sand (60%) with shell gravel (39%), live maerl (<1%) and shells (1%) including <i>Ensis</i> .	Shell material encrusted with pink coralline algae (R), live maerl <1% (R).	SS.SCS.CCS	SB:GS	
S4_V1_18.01	Megaripples of medium and coarse sand (70%) with shell gravel (5%), live maerl (15%), dead maerl (5%) and shells (5%).	Live maerl around 15% (F) though possibly reaching 20% (C) locally and supporting scrub of probably bleached filamentous algae (O) and red foliose algae (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V1_18.02	Sand-scoured bedrock.	Sparse park of <i>Laminaria hyperborea</i> (F) and <i>Saccharina latissima</i> (O) with faunal turf (C) of hydroids including <i>Nemertesia ramosa</i> and bryozoans including <i>Flustra foliacea</i> and red algal turf (A). <i>Cliona celata</i> (R), <i>Antedon</i> spp. (locally A).	IR.HIR.KSed.XKScrR	RF:BR	
S4_V1_18.03	Medium sand (85%) with coarse sand (10%), shell gravel (5%) and live maerl (<1%).	Sediment displaying small mounds and faunal tracks and with dusting of detritus or diatom film (A). <i>Antedon</i> sp. (P), live maerl <1% (R).	SS.SCS./CS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S4_V1_18.04	Sand-scoured bedrock with sand patches (5%).	Faunal and algal turf (S) with hydroids including <i>Nemertesia ramosa</i> (P) but apparently dominated by red algae (A). <i>Cliona celata</i> (R), <i>Asterias rubens</i> (P), <i>Antedon</i> spp. (locally A), <i>Luidia ciliaris</i> (P). Scattered <i>Saccharina latissima</i> present but probably drift material.	IR.HIR.KFaR.FoR	RF:BR	
S4_V1_18.05	Medium sand (84%) with coarse sand (10%), shell gravel (5%) and live maerl (1%).	Live maerl around 1% (R), small tufts of bleached algae/hydroids (O).	SS.SCS.ICS	SB:GS	
S4_V1_18.06	Sand-scoured bedrock.	Faunal and algal turf (S) including <i>Nemertesia ramosa</i> (P) and <i>Flustra foliacea</i> (P) and red algae (P). <i>Cliona celata</i> (R), <i>Antedon</i> spp. (locally A). Kelp present but probably drift material.	IR.HIR.KFaR.FoR	RF:BR	
S4_V1_18.07	Medium sand (87%) with coarse sand (5%), shell gravel (5%), shells (1%) including <i>Ensis</i> , dead maerl (1%) and live maerl (1%). Small bedrock outcrop (<1%).	Sediment displaying small mounds and faunal tracks and with dusting of detritus or diatom film (A, locally absent). <i>Chaetopterus variopedatus</i> (P), <i>Lanice conchilega?</i> (P), <i>Cancer pagurus</i> (P), <i>Antedon</i> sp. (P), live maerl 1% (R). Shells encrusted with pink coralline algae (R) and serpulid worms (P) and supporting sparse filamentous red (R) and foliose red algae (R) and hydroids (R).	SS.SCS.ICS	SB:GS	
S4_V1_18.08	Megaripples of coarse sand and shell gravel with live maerl (10%) and shells (5%) including <i>Ensis</i> .	Poor visibility but live maerl around 10% (F) and supporting tufts of hydroids/bleached algae (O).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V1_18.09	Sand-scoured and dusted bedrock.	Turf of hydroids and bryozoans (S) including <i>Flustra foliacea</i> (O) and <i>Alcyonidium diaphanum</i> (P), and red algae (P). <i>Cliona celata</i> (R), <i>Alcyonidium digitatum</i> (R), <i>Antedon</i> spp. A locally), <i>Asterias rubens?</i> (P), <i>Luidia ciliaris</i> (P), shoal of small teleosts.	CR.HCR.XFa.FluCoAs	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S4_V1_18.10	Megaripples of medium and coarse sand (83%) with shell gravel (5%), live maerl (10%) and shells (2%).	Live maerl around 10% (F) concentrated in troughs with detrital film over crests (C). <i>Luidia ciliaris</i> (P), <i>Henricia</i> sp. (P), shells with pink encrusting coralline algae (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V1_18.11	Medium sand (95%) with sparse scatter of coarse sand (5%).	Sediment with dusting of detritus or diatom film (A). Live maerl <1% (R).	SS.SCS./ICS	SB:GS	
S4_V1_18.12	Sand-scoured bedrock.	Turf of hydroids and bryozoans (S) including <i>Flustra foliacea</i> (P) and <i>Securiflustra securifrons</i> (P), and red algae (C). <i>Cliona celata</i> (R), <i>Munida rugosa</i> (P), <i>Janola cristatus</i> (P), <i>Antedon</i> spp. (C, A locally), <i>Asterias rubens?</i> (P), <i>Luidia ciliaris</i> (F).	CR.HCR.XFa.FluCoAs	RF:BR	
S4_V1_18.13	Medium sand (95%) with sparse scatter of coarse sand (5%).	Sediment with dusting of detritus or diatom film (A) and displaying small mounds and faunal tracks.	SS.SCS./ICS	SB:GS	
S4_V1_18.14	Sand-scoured bedrock with small sand pockets (<1%).	Turf of hydroids and bryozoans (A) and red algae (C) and <i>Dictyota dichotoma</i> (P). <i>Cliona celata</i> (R), <i>Alcyonium digitatum</i> (R), <i>Antedon</i> spp. (A locally), <i>Botryllus schlosseri</i> (R), <i>Ascidia</i> sp. (P), <i>Luidia ciliaris</i> (P), small <i>Laminaria hyperborea</i> (O).	CR.HCR.XFa.FluCoAs	RF:BR	
S4_V1_18.15	Megaripples of coarse sediment with live maerl (10%). Brief passage over edge of bedrock outcrop.	Poor visibility but live maerl around 10% (F) concentrated in troughs with detrital film over crests (C).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V1_18.16	Sand-scoured and dusted bedrock with sand patches (5%).	Turf of hydroids and bryozoans (A) including <i>Flustra foliacea</i> (O), <i>Securiflustra securifrons</i> (P) and <i>Bugula</i> sp. (P), and red algae (C). <i>Cliona celata</i> (R), <i>Alcyonium digitatum</i> (R). Rock encrusted with pink coralline algae (R) and orange-red bryozoan (R)	CR.HCR.XFa.FluCoAs	RF:BR	
S4_V1_18.17	Medium sand.	Poor visibility. Sediment with dusting of detritus or diatom film (C) and displaying small mounds.	SS.SCS./ICS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S4_V1_18.18	Sand-scoured bedrock.	Poor visibility. Turf of hydroids and bryozoans (S) including <i>Flustra foliacea</i> (F) and <i>Nemertesia ramosa</i> (P).	CR.HCR.XFa.FluCoAs	RF:BR	
S4_V1_18.19	Megaripples of medium and coarse sand (90%) with shell gravel (5%), live maerl (4%) and shells (1%).	Live maerl probably around 4% (R) but may reach 10% locally (F). Shells with serpulid worms (R) and pink encrusting coralline algae (R). Scattered tufts of red algae (R) and possibly hydroids.	SS.SCS.CCS	SB:GS	
S4_V1_18.20	Sand-scoured and dusted bedrock.	Poor visibility. Faunal turf including bryozoans (A) including <i>Flustra foliacea</i> . <i>Cliona celata</i> (R), <i>Asterias rubens?</i> (P). Rock encrusted with pink coralline algae (R) and orange-red bryozoan (R)	CR.HCR.XFa.FluCoAs	RF:BR	
S4_V1_18.21	Mainly megaripples of medium and coarse sand (65%) with shell gravel (10%), dead maerl (20%), live maerl (3%) and shells (2%).	Live maerl probably around 3% (R) but may reach 10% locally (F). Shells with pink encrusting coralline algae (R). <i>Asterias rubens?</i> (P), scattered tufts of red algae (R).	SS.SCS.CCS	SB:GS	
S4_V1_18.22	Sand-scoured and dusted bedrock.	Poor visibility. Faunal turf of hydroids and bryozoans (S) including <i>Flustra foliacea</i> and <i>Nemertesia ramosa</i> and red algae also present, as well as <i>Dictyota dichotoma</i> . <i>Caryophyllia smithii</i> (P), <i>Antedon</i> spp. (locally A), small <i>Laminaria hyperborea</i> (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S4_V1_18.23	Partly megarippled medium and coarse sand (59%) with shell gravel (10%), dead maerl (20%), live maerl (10%) and shells (1%).	Live maerl possibly around 10% (F), certainly locally at least. Shells with serpulid worms (R). Bivalve siphons (P), <i>Antedon</i> sp. (P), scattered tufts of red algae (R) and possibly hydroids (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S4_V2_18.01	Mainly megaripples of medium sand (15%), coarse sand (40%) and shell gravel (20%), with dead maerl (10%), live maerl (10%) and shells (5%) including <i>Ensis</i> .	Live maerl probably around 10% overall (F) but reaches around 30% locally (C). Shells with pink encrusting coralline algae (R), red encrusting algae (R) and serpulid worms. <i>Chaetopterus variopedatus</i> (P), Polyplacophora sp. (P), <i>Asterias rubens</i> (O), scattered tufts of red algae (R) and hydroids (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V2_18.02	Small patch of sand-scoured bedrock.	Poor visibility but apparently a turf of hydroids and bryozoans (C) including <i>Flustra foliacea</i> and red algae (C) with <i>Saccharina latissima</i> (P). Rock encrusted with pink coralline algae (O) and supporting <i>Urticina</i> sp. (P).	IR.HIR.KSed.XKScrR	RF:BR	
S4_V2_18.03	Mainly megaripples of medium sand (10%), coarse sand (40%) and shell gravel (15%), with dead maerl (10%), live maerl (15%) and shells (10%) including <i>Ensis</i> .	Live maerl probably around 15% overall (F) but reaches around 30% locally (C). Shells with pink encrusting coralline algae (R) and serpulid worms. <i>Cancer pagurus</i> (P).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V2_18.04	Sand-scoured bedrock.	Poor visibility but apparently a faunal turf (P) including <i>Flustra foliacea</i> and red algae (A) with frequent small kelp plants, some of which may be drift material.	IR.HIR.KSed.XKScrR	RF:BR	
S4_V2_18.05	Mainly megaripples of coarse sand (40%) and shell gravel (15%), with dead maerl (20%), live maerl (15%) and shells (10%).	Live maerl probably around 15% overall (F) but reaches around 30% locally (C). Shells with pink encrusting coralline algae (R) and serpulid worms. Red algal tufts (R), Terebellidae sp. (P), <i>Flustra foliacea</i> (R) but probably drift material, <i>Asterias rubens</i> (F).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V2_18.06	Sand-scoured bedrock.	Poor visibility but apparently a red algal turf (A) and faunal turf with <i>Flustra foliacea</i> and park of <i>Laminaria hyperborea</i> (C). <i>Cliona celata</i> (R).	IR.HIR.KSed.XKScrR	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S4_V2_18.07	Mainly megaripples of coarse sand (50%) and shell gravel (25%), with dead maerl (10%), live maerl (10%) and shells (5%).	Live maerl around 10% (F). Shells with pink encrusting coralline algae (R) and serpulid worms. <i>Neopentadactyla mixta</i> (P, 1 seen), tufts of red algae (R) and possibly hydroids (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V2_18.08	Sand-scoured bedrock with small coarse sediment channels (2%).	Turf of red algae (A) and <i>Dictyota dichotoma</i> (F) and faunal turf with <i>Nemertesia ramosa</i> and <i>N. antennina</i> and park of <i>Laminaria hyperborea</i> (F) and <i>Saccharina latissima</i> (P). <i>Cliona celata</i> (R), <i>Urticina</i> sp. (P), <i>Antedon</i> spp. (locally A), pink encrusting coralline algae (R).	IR.HIR.KSed.XKScrR	RF:BR	
S4_V2_18.09	Mainly megaripples of coarse sand (45%) and shell gravel (20%), with dead maerl (20%), live maerl (10%) and shells (5%).	Live maerl around 10% (F). Shells with pink encrusting coralline algae (R) and serpulid worms. Bivalve siphons (P), <i>Diplecogaster bimaculata?</i> (P), <i>Asterias rubens</i> (P), tufts of bleached red algae? (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V2_18.10	Mosaic of small outcrops of sand-scoured bedrock (50%) and coarse sediment (50%).	Rock with red algal turf (A), <i>Dictyota dichotoma</i> (P) and faunal turf, and park of <i>Laminaria hyperborea</i> (F) and <i>Saccharina latissima</i> (F). <i>Cliona celata</i> (R). Sediment patches with 15% live maerl (F).	SS.SMp.Mrl.Pcal.Nmix, IR.HIR.KSed.XKScrR	RF:BR	
S4_V2_18.11	Medium and coarse sand with shells (5%) and live maerl (20%).	Live maerl around 20% (C).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V2_18.12	Sand-scoured bedrock.	Turf of red algae (A, locally S) and <i>Dictyota dichotoma</i> (P) and faunal turf with <i>Nemertesia ramosa</i> (C), <i>N. antennina</i> (P) and <i>Abietinaria abietina?</i> (P). Park of <i>Laminaria hyperborea</i> (C) and <i>Saccharina latissima</i> (F). <i>Cliona celata</i> (R), <i>Antedon</i> spp. (locally A), small Asteroidea sp. (P), pink encrusting coralline algae (R).	IR.HIR.KSed.XKScrR	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S4_V2_18.13	Live maerl (35%), dead maerl, 40%), shell gravel (10%), sand (8%) and shells (7%).	Live maerl around 35% (C). Shells with pink encrusting coralline algae (R) and serpulid worms. Foliose red algae (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V2_18.14	Sand-scoured bedrock.	Turf of red algae (A) and <i>hydroids</i> (P) and park of <i>Laminaria hyperborea</i> (C). <i>Cliona celata</i> (R).	IR.HIR.KSed.XKScrR	RF:BR	
S4_V2_18.15	Live maerl (25%), coarse sediment (60%) and shells (5%).	Live maerl around 25% (C).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V2_18.16	Sand-scoured bedrock.	Turf of red algae (A) and probably hydroids and bryozoans (P) and park of <i>Laminaria hyperborea</i> (C). <i>Cliona celata</i> (R).	IR.HIR.KSed.XKScrR	RF:BR	
S4_V2_18.17	Live maerl (20%), coarse sediment (75%) and shells (5%).	Live maerl around 20% (C). Patches of red algal turf (overall O) where possibly sediment veneer over rock.	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V2_18.18	Sand-scoured bedrock.	Turf of red algae (A) and hydroids (P) and park of <i>Laminaria hyperborea</i> (C). <i>Cliona celata</i> (R), <i>Luidia ciliaris</i> (P).	IR.HIR.KSed.XKScrR	RF:BR	
S4_V2_18.19	Live maerl (15%) initially on megaripples of dead maerl (20%), shell gravel (10%), coarse sand (45%) and shells (5%), becoming scattered over medium sand (5%) towards end of run.	Live maerl around 15% (F), although reducing towards end of run. Scattered foliose red algae (R) and <i>Dictyota dichotoma</i> (R), <i>Pecten maximus</i> (P). Shells with pink encrusting coralline algae (R) and serpulid worms (P).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S4_V3_18.01	Megaripples of medium and coarse sand (55%), shell gravel (15%), with dead maerl (15%), live maerl (10%) and shells (5%) including <i>Ensis</i> .	Live maerl probably around 10% overall (F). Shells with pink encrusting coralline algae (R) and serpulid worms. <i>Pecten maximus</i> (P), <i>Asterias rubens</i> (P), tufts of red algae (R) including possibly bleached material.	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V3_18.02	Sand-scoured bedrock with sand patches (5%).	Red algal turf (A) and <i>Dictyota dichotoma</i> (P) with hydroids including <i>Nemertesia ramosa</i> (P), and <i>Flustra foliacea</i> (P). Shoal of small teleosts (P), live maerl <1% (R). Scattered kelp present but probably all drift material.	IR.HIR.KFaR.FoR	RF:BR	
S4_V3_18.03	Medium and coarse sand (75%), locally megarippled, with varying scatter of shell gravel (15%), dead maerl (5%), live maerl (3%) and shells (2%).	Live maerl probably around 3% overall (R). <i>Pecten maximus</i> (P), <i>Antedon</i> spp. (O), tufts of red algae (R) and other indeterminate material (R).	SS.SCS.CCS	SB:GS	
S4_V3_18.04	Sand-scoured bedrock with sand patches (1%).	Red algal turf (A) and <i>Dictyota dichotoma</i> (P) with hydroids including <i>Nemertesia ramosa</i> (P), and bryozoans including <i>Flustra foliacea</i> (P), <i>Bugula</i> sp. (P) and <i>Alcyonidium diaphanum</i> (C locally). Scattered kelp present but probably all drift material.	IR.HIR.KFaR.FoR	RF:BR	
S4_V3_18.05	Medium sand, with light scatter of shell gravel.	Poor visibility. Film of fine detritus or diatoms (C), live maerl <1% (R).	SS.SCS./CS	SB:GS	
S4_V3_18.06	Medium sand (68%) with shell gravel (15%), dead maerl (5%), live maerl (10%) and shells (2%).	Live maerl probably around 10% overall (F). Shells with encrusting pink coralline (R) and red (R) algae and serpulid worms. Paguridae sp. (P), <i>Asterias rubens</i> (P), tufts of red algae (R) and possibly hydroids (R), <i>Saccharina latiissima</i> (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S4_V3_18.07	Sand-scoured and heavily-dusted bedrock..	Poor visibility. Turf with red algae (C), <i>Dictyota dichotoma</i> (P) bryozoans including <i>Flustra foliacea</i> (P) and probably hydroids. Scattered kelp present but probably all drift material.	IR.HIR.KFaR.FoR	RF:BR	
S4_V3_18.08	Mostly medium sand (60%), with scattered coarse sand (8%), shell gravel (15%), dead maerl (5%), live maerl (10%) and shells (2%) including <i>Ensis</i> .	Live maerl probably around 10% overall (F). Shells with pink encrusting coralline algae (R). <i>Alcyonium digitatum?</i> (R), <i>Urticina</i> sp. (P), <i>Pecten maximus</i> (O), <i>Antedon</i> sp. (P), <i>Asterias rubens</i> (F), small Asteroidea sp. (P), small teleosts (P), film of detritus or diatoms (C).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V3_18.09	Sand-scoured bedrock.	Red algal turf (A) and <i>Dictyota dichotoma</i> (P) with hydroids including <i>Nemertesia ramosa</i> (P), and bryozoans including <i>Alcyonidium diaphanum</i> (P). <i>Cliona celata</i> (R), <i>Antedon</i> sp. (P). Scattered kelp present including some live <i>Laminaria hyperborea</i> , but mostly drift material, pink encrusting coralline algae (R).	IR.HIR.KFaR.FoR	RF:BR	
S4_V3_18.10	Medium sand (84%), with scattered shell gravel (15%) and live maerl (1%).	Scattered thalli of live maerl (1%, R). Sediment with small mounds and film of detritus or diatoms (C).	SS.SCS.ICCS	SB:GS	
S4_V3_18.11	Megaripples of coarse sand (50%), shell gravel (15%), with dead maerl (20%), live maerl (10%) and shells (5%).	Live maerl around 10% overall (F), concentrated in troughs. Shells with pink encrusting coralline algae (R) and serpulid worms.	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V3_18.12	Sand-scoured and heavily-dusted bedrock.	Poor visibility. Turf with red algae (A), <i>Dictyota dichotoma</i> (F, at least locally), bryozoans including <i>Securiflustra securifrons?</i> (P) and hydroids including <i>Nemertesia ramosa</i> (C). <i>Antedon</i> spp. (locally A), <i>Luidia ciliaris?</i> (P). Scattered kelp present but probably all drift material.	IR.HIR.KFaR.FoR	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S4_V3_18.13	Medium sand (82%), with scattered coarse sand (5%), shell gravel (10%) and live maerl (3%).	Scattered thalli of live maerl (3%, R). Sediment with film of detritus or diatoms (C).	SS.SCS.ICS	SB:GS	
S4_V3_18.14	Sand-scoured and heavily-dusted bedrock with sand patches (1%).	Poor visibility. Turf with red algae (A), bryozoans including <i>Flustra foliacea</i> (P) and <i>Securiflustra securifrons?</i> (P) and hydroids including <i>Nemertesia ramosa</i> (P). <i>Antedon</i> spp. (locally A), <i>Luidia ciliaris</i> (P). Scattered kelp present but possibly all drift material.	IR.HIR.KFaR.FoR	RF:BR	
S4_V3_18.15	Megaripples of coarse and medium sand (50%), shell gravel (20%), with dead maerl (15%), live maerl (10%) and shells (5%).	Live maerl around 10% overall (F), concentrated in troughs. <i>Lanice conchilega?</i> (P).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V3_18.16	Medium sand (80%) with scattered coarse sand (4%), shell gravel (15%) and shells (1%).	Sparse live maerl probably present. Sediment with film of detritus or diatoms (C locally).	SS.SCS.ICS	SB:GS	
S4_V3_18.17	Sand-scoured and heavily-dusted bedrock with sand patches (1%)	Poor visibility. Turf with red algae (A) including <i>Polyides rotunda</i> (P), <i>Dictyota dichotoma</i> (P), bryozoans including <i>Flustra foliacea</i> (P) and <i>Securiflustra securifrons?</i> (P) and hydroids including <i>Nemertesia ramosa</i> (P). <i>Antedon</i> spp. (locally A), <i>Luidia ciliaris</i> (P), small teleosts (P). Scattered kelp present but possibly all drift material.	IR.HIR.KFaR.FoR	RF:BR	
S4_V3_18.18	Megarippled coarse sediment.	Visibility very poor but apparently significant quantities of live maerl in ripple troughs.	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V3_18.19	Small patch of sand-scoured bedrock.	Poor visibility. Dense algal/faunal turf including probably red algae and <i>Flustra foliacea</i> (P). Scattered kelp present but probably all drift material.	IR.HIR.KFaR.FoR	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S4_V3_18.20	Small patch of coarse sediment with live maerl (20%).	Poor visibility. Live maerl around 20% (C).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V3_18.21	Small patch of sand-scoured bedrock.	Dense red algal turf (A), <i>Dictyota dichotoma</i> (P) and <i>Flustra foliacea</i> (P). <i>Liocarcinus</i> sp. (P), pink encrustine coralline algae (R).	IR.HIR.KFaR.FoR	RF:BR	
S4_V3_18.22	Small patch of medium sand with live maerl (10%).	Poor visibility. Patchy live maerl, overall around 10% (F), shoal of small teleosts.	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V3_18.23	Sand-scoured bedrock.	Poor visibility. Turf with red algae (A) and <i>Dictyota dichotoma</i> (P) and hydroids including <i>Nemertesia ramosa</i> (P). <i>Cliona celata</i> (R), <i>Antedon</i> spp. (locally A). Scattered kelp present but possibly all drift material.	IR.HIR.KFaR.FoR	RF:BR	
S4_V3_18.24	Slight megaripples of coarse sand (50%), shell gravel (20%), dead maerl (15%), live maerl (10%) and shells (5%).	Live maerl around 10% (F). Shells with pink encrusting coralline algae (R) and serpulid worms. <i>Luidia ciliaris</i> (F), red algal tufts (O).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S4_V3_18.25	Sand-scoured bedrock.	Poor visibility. Turf with red algae (A), <i>Nemertesia ramosa</i> (P) and <i>Flustra foliacea</i> (P). <i>Antedon</i> spp. (locally A). Scattered kelp, probably largely drift material, but live <i>Laminaria hyperborea</i> possibly occasional.	IR.HIR.KFaR.FoR	RF:BR	
S4_V3_18.26	Slight megaripples initially of coarse sediment becoming medium sand with small rock outcrops. Live maerl 10%.	Megaripple troughs with live maerl around 10% (F). <i>Asterias rubens</i> (P).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S4_V3_18.27	Sand-scoured bedrock.	Turf with red algae (A), <i>Dictyota dichotoma</i> (P), <i>Nemertesia ramosa</i> (P) and <i>Flustra foliacea</i> (P). <i>Antedon</i> spp. (locally A). Scattered kelp, probably largely drift material, but live <i>Laminaria hyperborea</i> possibly occasional.	IR.HIR.KFaR.FoR	RF:BR	
S5_V1_18.01	Megaripples of coarse sand (30%) shell gravel (20%) and maerl gravel (37%) with live maerl (10%) and shells (3%).	Live maerl (10%, F) concentrated in troughs but lower density locally. Clumps of red algae (R), bleached algae? (R) and <i>Dictyota dichotoma</i> (R). Shells encrusted with serpulid worms (P), <i>Balanus</i> spp. (R) and pink coralline algae (R). <i>Lanice</i> sp. (P), <i>Liocarcinus</i> sp. (P), <i>Cancer pagurus</i> (P), <i>Ophiura</i> sp. (P), <i>Asterias rubens</i> (P), <i>Henricia</i> sp. (R), small teleost sp. (P).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S5_V1_18.02	Sand-scoured and dusted bedrock with sand patches (2%)	Turf and scrub (A) of hydroids including <i>Nemertesia ramosa</i> (P) and bryozoans (P) including <i>Flustra foliacea</i> (P) and <i>Alcyonidium diaphanum</i> (P); foliose red algae (R). Rock encrusted with pink coralline algae (R) and <i>Balanus balanus</i> (P). <i>Cliona celata</i> (R), <i>Caryophyllia smithii</i> (P), <i>Munida rugosa</i> (P), <i>Gibbula cineraria</i> (P), Anomiidae spp. (P), <i>Antedon</i> spp. (A locally), <i>Ophiura albida</i> (C locally), <i>Luidia ciliaris</i> (O), shoal of small teleosts.	CR.HCR.XFa.FluCoAs	RF:BR	
S5_V1_18.03	Megaripples of coarse sand (45%), shell gravel (10%) and maerl gravel (32%) with live maerl (10%) and shells (3%).	Live maerl (10%, F) concentrated in troughs but lower density locally. Shells encrusted with serpulid worms (P) and pink coralline algae (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S5_V1_18.04	Sand-scoured and dusted bedrock with sand patches (2%)	Faunal turf and scrub (A) of hydroids including <i>Nemertesia ramosa</i> (P) and bryozoans including <i>Flustra foliacea</i> (F); foliose red algae (F). <i>Cliona celata</i> (R), <i>Henricia</i> sp. (P).	CR.HCR.XFa.FluCoAs	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S5_V1_18.05	Megaripples of coarse sand (45%), shell gravel (10%) and maerl gravel (37%) with live maerl (3%) and shells (5%).	Live maerl probably around 3% overall (R), locally greater. <i>Cancer pagurus</i> (P), <i>Pecten maximus</i> (O), <i>Henricia</i> sp.(O), <i>Luidia ciliaris</i> (P), shells encrusted with serpulid worms (P) and pink coralline algae (R).	SS.SCS.CCS	SB:GS	
S5_V2_18.01	Dead maerl (60%), live maerl (10%), coarse sand (15%), shell gravel (10%), shells (5%). Sediment locally in megaripples.	Live maerl concentrated in troughs where megaripples present, elsewhere more scattered (10%, F, but possibly reaching 20% in small patches). <i>Lanice conchilega?</i> (P), <i>Liocarcinus</i> sp. (P), <i>Cancer pagurus</i> (O), <i>Pecten maximus</i> (P), <i>Henricia</i> sp. (R), Pleuronectidae sp. (P). Shells encrusted with serpulid worms (P) and pink coralline algae (R) and supporting sparse foliose red algae (R) and <i>Dictyota dichotoma</i> (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S5_V2_18.02	Mosaic of sand-scoured bedrock outcrops (60%) and patches and channels of coarse sand and shell gravel.	Turf and shorter scrub (A) of hydroids including <i>Nemertesia ramosa</i> (P) and bryozoans (P) including <i>Flustra foliacea</i> (F) and <i>Alcyonidium diaphanum</i> (P); foliose red algae (O) and <i>Dictyota dichotoma</i> (locally O). Rock encrusted with pink coralline algae (R) and <i>Balanus balanus</i> (P). <i>Cliona celata</i> (R), <i>Suberites</i> sp. (R), <i>Urticina</i> sp. (P), <i>Caryophyllia smithii</i> (P), <i>Munida rugosa</i> (P), <i>Necora puber</i> (P), <i>Pecten maximus</i> (P), <i>Antedon</i> spp. (A locally), <i>Ophiura albida</i> (P), <i>Marthasterias glacialis</i> (P), <i>Asterias rubens</i> (O), <i>Henricia</i> sp. (P), <i>Luidia ciliaris</i> (O), <i>Echinus esculentus</i> (O), <i>Ascidia</i> sp. (P), small teleost spp. (P). Sediment patches contain live maerl but the quantity cannot be determined.	CR.HCR.XFa.FluCoAs, SS.SCS.CCS	RF:BR, SB:GS	
S5_V2_18.03	Megaripples of coarse sand (70%), shell gravel (12%) and maerl gravel (5%) with live maerl (10%) and shells (3%). Camera skirts edge of bedrock.	Live maerl possibly reaching 10% (F) concentrated in troughs. Shoal of small teleosts.	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S5_V2_18.04	Sand-scoured bedrock and small coarse sand patches (2%).	Turf (A) of hydroids including <i>Nemertesia ramosa</i> (P) and bryozoans (P) including <i>Flustra foliacea</i> (F); red algae (C locally) and <i>Dictyota dichotoma</i> (P). Rock encrusted with pink coralline algae (R). <i>Cliona celata</i> (R), <i>Caryophyllia smithii</i> (P), <i>Antedon</i> spp. (A locally), <i>Asterias rubens</i> (O), <i>Luidia ciliaris</i> (P), small shoal of small teleosts (P).	CR.HCR.XFa.FluCoAs	RF:BR	
S5_V3_18.01	Megaripples of coarse sand (48%), shell gravel (15%) and maerl gravel (25%) with live maerl (10%) and shells (2%) including <i>Ensis</i> .	Live maerl possibly reaching 10% (F) concentrated in troughs, but lower density locally. Shells encrusted with serpulid worms (P) and pink coralline (R) and red (R) algae, with foliose red algae (R). <i>Alcyonium digitatum</i> (R), <i>Henricia</i> sp. (R), bleached filamentous algae? (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S5_V3_18.02	Sand-scoured and partly covered bedrock with sand patches (5%).	Poor visibility but turf present, apparently faunally-dominated and including <i>Nemertesia ramosa</i> (P) and red algae (possibly C). <i>Cliona celata</i> (R), <i>Urticina</i> sp. (P). Scattered kelp, probably largely drift material, although live <i>Laminaria hyperborea</i> possibly occasional.	CR.HCR.XFa.FluCoAs	RF:BR	
S5_V3_18.03	Megaripples of coarse sand (43%), shell gravel (15%) and maerl gravel (30%) with live maerl (10%) and shells (2%).	Live maerl possibly reaching 10% (F) concentrated in troughs, but lower density locally. Shells encrusted with serpulid worms (P) and pink coralline algae (R) and with foliose red algae (R). <i>Cancer pagurus</i> (P), <i>Henricia</i> sp. (R), <i>Neopentadactyla mixta</i> ? (P, 1 possible specimen seen), small shoal of Ammodytidae sp.? (P), bleached filamentous algae? (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB, SE?
S5_V3_18.04	Sand-scoured bedrock.	Faunal turf (A) of hydroids including <i>Nemertesia ramosa</i> (C) and bryozoans (P) including <i>Flustra foliacea</i> (C) and <i>Pentapora foliacea</i> (C); red algae (P). <i>Cliona celata</i> (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S5_V3_18.05	Small patch of coarse sand and gravel.	Poor visibility. Live maerl may be present.	SS.SCS.CCS	SB:GS	
S5_V3_18.06	Sand-scoured bedrock.	Turf (A) of hydroids including <i>Nemertesia ramosa</i> (P) and bryozoans (P) including <i>Flustra foliacea</i> (F); red algae (C, at least locally). <i>Cliona celata</i> (R), <i>Antedon</i> spp. (A locally), <i>Asterias rubens</i> (P).	CR.HCR.XFa.FluCoAs	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S6_V1_18.01	Sand-scoured bedrock.	Poor visibility. Mostly short turf (C-A) including <i>Flustra foliacea</i> (P), <i>Nemertesia</i> spp. (P), red algae (P) and <i>Dictyota dichotoma</i> (P). <i>Cliona celata</i> (R), <i>Antedon</i> spp. (locally A), <i>Marthasterias glacialis</i> (P), <i>Asterias rubens</i> (C locally), small teleost sp. (P), pink encrusting coralline algae (R). Much kelp debris.	CR.HCR.XFa.FluCoAs	RF:BR	
S6_V1_18.02	Megaripples (mostly) of coarse sand (36%), shell gravel (25%) and maerl gravel (35%) with live maerl (1%) and shells (3%).	Live maerl (c.1% overall, R, locally perhaps 5%). Shells encrusted with serpulid worms (P) and pink coralline algae (R). <i>Flustra foliacea</i> (R), <i>Antedon</i> spp. (P), <i>Henricia</i> sp. (O), <i>Marthasterias glacialis</i> (P), <i>Asterias rubens</i> (P), small shoal of small teleosts (P), Ammodytidae sp.? (P), emergent infaunal tubes (P), bleached algae/hydroid tufts (R).	SS.SCS.CCS	SB:GS	SE?
S6_V2_18.01	Megaripples of coarse sand (40%), shell gravel (20%) and maerl gravel (35%) with live maerl (2%) and shells (3%).	Live maerl (c.2% R,). Shells encrusted with serpulid worms (P) and pink coralline algae (R). <i>Luidia ciliaris</i> (P), shoal of Ammodytidae sp.? (P).	SS.SCS.CCS	SB:GS	SE?
S6_V2_18.02	Sand-scoured bedrock with sand patches (5%).	Poor visibility. Faunal turf (A) including <i>Flustra foliacea</i> and <i>Nemertesia ramosa</i> , and red algae (C) with sparse <i>Laminaria hyperborea</i> (O). <i>Antedon</i> spp. (locally A), shoal of small teleost sp. (P), pink encrusting coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S6_V2_18.03	Megaripples of coarse sand (33%), shell gravel (25%) and maerl gravel (35%) with live maerl (4%) and shells (3%).	Live maerl (c.4%, R, denser locally). Shells encrusted with serpulid worms (P) and pink coralline algae (R). <i>Alcyonium digitatum</i> ? (R), <i>Cerianthus lloydii</i> ? (P), <i>Caryophyllia smithii</i> (R), <i>Atelecyclus rotundatus</i> ? (P), <i>Cancer pagurus</i> (P), <i>Henricia</i> sp. (R), bleached algae/hydroids (R).	SS.SCS.CCS	SB:GS	
S6_V2_18.04	Sand-scoured bedrock.	Poor visibility. Apparently turf (A) including foliose red algae (C) with small <i>Laminaria hyperborea</i> (F). <i>Cancer pagurus</i> (P), <i>Antedon</i> spp. (A over large area), Ophiuroidea sp. (P), <i>Ophiura albida</i> (P), <i>Luidia ciliaris</i> (O), pink encrusting coralline algae (R).	IR.HIR.KSed.XKScrR	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S6_V2_18.05	Megaripples of coarse sand (37%), shell gravel (25%) and maerl gravel (25%) with live maerl (10%) and shells (3%). Small bedrock outcrops (<1%).	Live maerl possibly reaching 10%, at least locally (F). Shells encrusted with pink coralline algae (R). <i>Urticina</i> sp. (P), <i>Pecten maximus</i> (P), <i>Flustra foliacea</i> (R), <i>Crossaster papposus</i> (P), bleached algae/hydroids (O).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S6_V2_18.06	Flat area of coarse sand (75%), medium sand (10%), shell gravel (14%) and shells (1%).	Live maerl (<1%, R), <i>Ophiura albida</i> (P). Shells encrusted with pink coralline algae (R).	SS.SCS.CCS	SB:GS	
S6_V2_18.07	Sand-scoured bedrock with sand patches (<1%).	Poor visibility. Turf (A) apparently dominated by hydroids (A) including <i>Nemertesia ramosa</i> (P), with <i>Flustra foliacea</i> (P), <i>Pentapora foliacea?</i> (P) and foliose red algae (F) with sparse <i>Laminaria hyperborea</i> (O). <i>Cliona celata</i> (R), <i>Cancer pagurus</i> (P), <i>Antedon</i> spp. (C, locally A), Ophiuroidea sp. (P), <i>Luidia ciliaris</i> (F), <i>Echinus esculentus</i> (P), pink encrusting coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S6_V2_18.08	Megaripples of coarse sand (37%) shell gravel (30%) and maerl gravel (20%) with live maerl (10%) and shells (3%).	Live maerl possibly reaching 10%, at least locally (F).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S6_V2_18.09	Sand-scoured bedrock with sand patches (<1%).	Poor visibility. Turf (A) apparently dominated by hydroids (A) including <i>Nemertesaia ramosa</i> (F) and <i>N. antennina</i> (P), with <i>Flustra foliacea</i> (P), <i>Pentapora foliacea</i> (P) and foliose red algae (F) and <i>Dictyota dichotoma</i> (P), with drift kelp but possibly some attached <i>Laminaria hyperborea</i> (P). <i>Cliona celata</i> (R), <i>Haliclona urceolus</i> (R), <i>Balanus</i> spp. (P), <i>Cancer pagurus</i> (P), Nudibranchia sp. (P), <i>Antedon</i> spp. (locally A), <i>Ophiura albida</i> (P), <i>Crossaster papposus</i> (P), <i>Asterias rubens?</i> (P), <i>Luidia ciliaris</i> (F), pink encrusting coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S6_V3_18	Megaripples of coarse sand (15%), shell gravel (20%) and maerl gravel (50%) with live maerl (10%) and shells (5%) including <i>Ensis</i> .	Live maerl around 10% (F) concentrated in troughs, but lower locally. Shells encrusted with serpulid worms (P) and pink coralline algae (R). <i>Alcyonium digitatum</i> (R), <i>Henricia</i> sp. (R), bleached algae/hydroids (O).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S6_V4_18.01	Megaripples of coarse sand (40%), shell gravel (15%) and maerl gravel (30%) with live maerl (10%) and shells (5%) including <i>Ensis</i> ; small bedrock outcrops (<1%).	Live maerl around 10% (F) concentrated in troughs, but lower initially. Shells encrusted with serpulid worms (P) and pink coralline algae (R). <i>Alcyonium digitatum</i> (R), <i>Atelecyclus rotundatus?</i> (P), <i>Cancer pagurus</i> (P), <i>Pecten maximus</i> (R), <i>Antedon</i> sp. (R), infaunal tubes (P).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S6_V4_18.02	Sand-scoured bedrock with sand and gravel patches (5%).	Poor visibility. Turf (A) apparently dominated by bryozoans and hydroids including <i>Nemertesia ramosa</i> (P) and <i>Flustra foliacea</i> (F) with red algae (C). <i>Luidia ciliaris</i> (P).	CR.HCR.XFa.FluCoAs	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S6_V4_18.03	Megaripples of coarse sand (50%), shell gravel (15%) and maerl gravel (20%) with live maerl (10%) and shells (5%).	Live maerl around 10% (F) concentrated in troughs. Shells encrusted with serpulid worms (P) and pink coralline algae (R). Bleached algae/hydroids (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S6_V4_18.04	Sand-scoured bedrock with sand and gravel channel (10%).	Poor visibility. Turf (S) dominated by bryozoans and hydroids including <i>Nemertesia ramosa</i> (P) and <i>Flustra foliacea</i> (C) with red algae (P).	CR.HCR.XFa.FluCoAs	RF:BR	
S6_V4_18.05	Megaripples of coarse sand (20%), shell gravel (25%) and maerl gravel (40%) with live maerl (10%) and shells (5%).	Live maerl around 10% (F) concentrated in troughs but also scattered over crests. Shells encrusted with serpulid worms (P), red algae (R) and pink coralline algae (R). <i>Galathea</i> sp. (P), bleached algae/hydroids (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S8_V1_18.01	Flat area of coarse sand (55%), dead maerl (20%), shell gravel (20%) and shells and large shell pieces including <i>Ensis</i> (5%).	Live maerl <1% (R). Shells encrusted with serpulid worms (P) and red (R) and pink coralline (R) algae. <i>Lanice conchilega</i> (P), <i>Atelecyclus rotundatus?</i> (P), infaunal tubes (P).	SS.SCS.CCS	SB:GS	
S8_V1_18.02	Megaripples of coarse sand (50%), shell gravel (15%) and maerl gravel (20%) with live maerl (10%) and shells (5%) including <i>Ensis</i> .	Poor visibility. Live maerl around 10% (F) concentrated in troughs.	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S8_V2_18.01	Basically medium sand with varying amounts of shell gravel surface scatter (5 - 75%) and shells (1-7%) including <i>Ensis</i> .	Much of thie biotope is transitional with the following biotope. Initially virtually only flat medium sand with small mounds and film of detritus/diatoms (where A) but subsequently acquiring much shell gravel and shells, with shells encrusted with serpulid worms (P), pink coralline algae (R), red algae (R) and yellow bryozoan (R). Infaunal tubes (P), <i>Cerianthus lloydii</i> (O), <i>Marthasterias glacialis</i> (P), <i>Asterias rubens</i> (F), live maerl (<1%, R).	SS.SCS.ICS	SB:GS	
S8_V2_18.02	Mostly megaripples of coarse sand with some medium sand (65% in total) and shell gravel (18%) particularly in troughs with live maerl (2%), dead maerl (10%) and shells (5%) including <i>Ensis</i> .	Shells encrusted with serpulid worms (P), pink coralline algae (R), red algae (R) and yellow bryozoan (R) and supporting sparse foliose red algae (R). <i>Lanice conchilega</i> (P), Paguridae sp. (P), <i>Pecten maximus</i> (P), <i>Marthasterias glacialis</i> (P), <i>Asterias rubens</i> (F), live maerl (2%, R).	SS.SCS.CCS	SB:GS	
S8_V2_18.03	Megaripples of coarse sand (55%) and shell gravel (10%), live maerl (10%), dead maerl (20%) and shells (5%) including <i>Ensis</i> .	Shells encrusted with serpulid worms (P) and pink coralline algae (R). Paguridae sp. (P), Brachyura sp. (P), <i>Marthasterias glacialis</i> (P), <i>Asterias rubens</i> (P), live maerl (10%, R, locally 25%).	SS.SMp.Mri.Pcal.Nmix	SB:MB	MB
S8_V2_18.04	Megaripples of coarse sand (76%) and shell gravel (5%), live maerl (2%), dead maerl (15%) and shells (2%) including <i>Ensis</i> .	Shells encrusted with pink coralline algae (R) and red algae (R) and supporting sparse filamentous red algae (R). <i>Liocarcinus</i> sp.? (P), <i>Atelecyclus rotundatus</i> (P), Brachyura sp. (P), <i>Marthasterias glacialis</i> (P), <i>Asterias rubens</i> (P), live maerl (2%, R).	SS.SCS.CCS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S8_V3_18.01	Coarse sand (27%), shell gravel (62%), live maerl (3%), dead maerl (5%) and shells (3%) including <i>Ensis</i> .	Shells encrusted with pink coralline algae (R). Live maerl (3%, R).	SS.SCS.CCS	SB:GS	
S8_V3_18.02	Sand-scoured and heavily-dusted bedrock.	Very poor visibility. Short turf (mostly) (A) including red algae, <i>Dictyota dichotoma</i> and <i>Nemertesia ramosa</i> . Scattered small kelp plants, some of which may be attached. <i>Cliona celata</i> (R), <i>Urticina felina</i> (P), <i>Balanus</i> spp. (P), <i>Cancer pagurus</i> (P), small teleost spp. (P), pink encrustine coralline algae (R)	IR.HIR.KSed	RF:BR	
S8_V3_18.03	Megaripples of coarse sand (60%), shell gravel (20%), dead maerl (15%), live maerl (2%) with shells (3%) including <i>Ensis</i> .	Shell material with serpulid worms (P) and pink coralline algae (R). <i>Asterias rubens</i> (F), live maerl (2%, R).	SS.SCS.CCS	SB:GS	
S8_V3_18.04	Sand-scoured and heavily-dusted bedrock with coarse sand patches (10%).	Very poor visibility. Short turf (A). Scattered small kelp plants, some of which may be attached. <i>Urticina felina</i> (P), <i>Cancer pagurus</i> (F), <i>Marthasterias glacialis</i> ? (P), <i>Luidia ciliaris</i> (P).	IR.HIR.KSed	RF:BR	
S8_V3_18.05	Megaripples of coarse sand (60%), shell gravel (26%), dead maerl (10%), live maerl (1%) with shells (3%) including <i>Ensis</i> .	Shell material with serpulid worms (P), red algae (R) and pink coralline algae (R). <i>Atelecyclus rotundatus</i> ((R), <i>Brachyura/Paguridae</i> sp.? (P), <i>Cancer pagurus</i> (P), <i>Henricia</i> sp. (R), small teleost spp. (P), live maerl (1%, R).	SS.SCS.CCS	SB:GS	
S8_V3_18.06	Sand-scoured and heavily-dusted bedrock.	Very poor visibility. Short turf (A) containing at least red algae, <i>Dictyota dichotoma</i> and <i>Nemertesia ramosa</i> . Small <i>Laminaria hyperborea</i> (C) though some may be drift material. <i>Antedon</i> spp. (A locally), <i>Luidia ciliaris</i> (F), shoal of small teleosts (P).	IR.HIR.KSed.XKScrR	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S8_V3_18.07	Low megaripples of dead maerl (50%), shell gravel (36%), coarse sand (10%), live maerl (3%) and shells (1%).	Shell material with serpulid worms (P) and pink coralline algae (R). Difficut to determine live maerl content but probably around 3% overall (R), although slightly denser near end of run.	SS.SCS.CCS	SB:GS	
S8_V3_18.08	Sand-scoured bedrock.	Poor visibility. Park of small <i>Laminaria hyperborea</i> (C) with turf of red algae and <i>Dictyota dichotoma</i> , as well as dense <i>Nemertesia</i> spp.? on vertical faces. <i>Cliona celata</i> (R), pink encrusting coralline algae (R).	IR.HIR.KSed.XKScrR	RF:BR	
S8_V3_18.09	Patch of coarse sediment.	Very poor visibility. <i>Marthasterias glacialis</i> (P). Live maerl may be present.	SS.SCS.CCS	SB:GS	
S8_V3_18.10	Sand-scoured bedrock.	Poor visibility. Park of <i>Laminaria hyperborea</i> (C) and <i>Saccharina latissima</i> (P) with turf of red algae (C) and <i>Dictyota dichotoma</i> (C), as well as <i>Flustra foliacea</i> (R) and <i>Nemertesia ramosa</i> (P). <i>Cliona celata</i> (R), <i>Antedon</i> spp. (A locally), <i>Asterias rubens</i> (P), <i>Luidia ciliaris</i> (P).	IR.HIR.KSed.XKScrR	RF:BR	
S8_V3_18.11	Megaripples of dead maerl (60%), shell gravel (26%), coarse sand (10%), live maerl (3%) and shells (1%) including <i>Ensis</i> .	Poor visibility. Shell material with serpulid worms (P) and pink coralline algae (R). Small shoal of small teleosts (P). Difficut to determine live maerl content but possibly around 3% overall (R).	SS.SCS.CCS	SB:GS	
S8_V3_18.12	Sand-scoured and dusted bedrock.	Poor visibility. Park of small <i>Laminaria hyperborea</i> (C) and <i>Saccharina latissima</i> (P) with turf (A) including red algae (P). <i>Cliona celata</i> (R).	IR.HIR.KSed.XKScrR	RF:BR	
S8_V3_18.13	Megarippled sand and gravel.	Poor visibility. No biota discernible.	SS.SCS.CCS	SB:GS	
S8_V3_18.14	Sand-scoured bedrock.	Very poor visibility. Park of small kelp plants (C). <i>Cliona celata</i> (R).	IR.HIR.KSed.XKScrR	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S8_V4_18.01	Megaripples of coarse sand (44%) and shell gravel (32%), live maerl (2%), dead maerl (20%) and shells (2%) including <i>Ensis</i> .	Shells encrusted with serpulid worms (P) and pink coralline algae (R). Live maerl (2%, R).	SS.SCS.CCS	SB:GS	
S8_V4_18.02	Sand-scoured bedrock, partially fringing sand.	Park of <i>Laminaria hyperborea</i> (C) supporting <i>Obelia geniculata</i> , with understorey of red algal turf (A) including <i>Delesseria sanguinea</i> (P), and <i>Dictyota dichotoma</i> (P). <i>Cliona celata</i> (R), <i>Alcyonium digitatum</i> (R), <i>Antedon</i> spp. (A locally), <i>Marthasterias glacialis</i> (P), <i>Luidia ciliaris</i> (P), shoal of small teleosts (P).	IR.HIR.KSed.XKScrR	RF:BR	
S8_V4_18.03	Megaripples of coarse sand, shell gravel and sparse shells.	Shells encrusted with pink coralline algae (R).	SS.SCS.CCS	SB:GS	
S8_V4_18.04	Sand-scoured and dusted bedrock with sand patches (2%).	Park of <i>Laminaria hyperborea</i> (C), with understorey of red algal turf (A). <i>Cliona celata</i> (R), <i>Antedon</i> spp. (A locally).	IR.HIR.KSed.XKScrR	RF:BR	
S8_V4_18.05	Megaripples of coarse sand (75%) and shell gravel (25%) with shells (<1%) including <i>Ensis</i> .	Shell material with pink coralline algae (R). Live maerl (<1%, R).	SS.SCS.CCS	SB:GS	
S8_V4_18.06	Sand-scoured and dusted bedrock with sand patches (2%).	Park of small <i>Laminaria hyperborea</i> (F) and possibly <i>Saccharina latissima</i> (P), with understorey of red algal turf (A). <i>Cliona celata</i> (R), <i>Urticina</i> sp. (P).	IR.HIR.KSed.XKScrR	RF:BR	
S8_V4_18.07	Mainly megaripples of coarse sand (50%) and shell gravel (25%), live maerl (2%), dead maerl (20%) and shells (3%) including <i>Ensis</i> .	Shells encrusted with serpulid worms (P), red algae (R) and pink coralline algae (R). <i>Cerianthus lloydii</i> (P), <i>Balanus</i> spp. (R), Paguridae sp. (P), <i>Atelecyclus rotundatus</i> (P), <i>Asterias rubens</i> (P), small shoal of small teleosts (P), live maerl (2%, R).	SS.SCS.CCS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S8_V4_18.08	Sand-scoured bedrock.	Park of small <i>Laminaria hyperborea</i> (F) with turf (A) including red algae (P), <i>Dictyota dichotoma</i> (P) and hydroids including <i>Nemertesia</i> spp. (P). <i>Cliona celata</i> (R), <i>Cancer pagurus</i> (P), <i>Antedon</i> spp. (A locally), <i>Marthasterias glacialis</i> (P), <i>Asterias rubens</i> (F), shoals of small teleosts (P).	IR.HIR.KSed.XKScrR	RF:BR	
S8_V4_18.09	Megaripples of coarse sand (48%) and shell gravel (25%), live maerl (1%), dead maerl (25%) and shells (1%) including <i>Ensis</i> .	Shells encrusted with serpulid worms (P), red algae (R) and pink coralline algae (R) and supporting sparse foliose red algae (R). <i>Tectura</i> sp. (P), <i>Atelecyclus rotundatus</i> (P), live maerl (1%, R).	SS.SCS.CCS	SB:GS	
S9_V1_18.01	Medium sand. Very sparse shells include <i>Ensis</i> .	Sediment covered with brown detrital dusting or diatom film (A) and with small mounds and faunal tracks. Infaunal tubes (P), <i>Cerianthus lloydii</i> (O, locally F), Terebellidae sp. (P), <i>Cancer pagurus</i> (O), <i>Pecten maximus</i> (R), <i>Ophiura</i> sp. (P), live marl (<1%, R), petaloid traces in film similar to those produced by the echiuran <i>Maxmuelleria</i> - but no corresponding mounds.	SS.SCS.ICS	SB:GS	
S9_V1_18.02	Megaripples of coarse sand (40%), live maerl (30%), dead maerl (20%), shell gravel (9%) and shells (1%) including <i>Ensis</i> .	Well-developed maerl bed with live maerl (30%, C, locally 50%) in troughs and over crests. <i>Pecten maximus</i> (O), <i>Marthasterias glacialis</i> (P), <i>Asterias rubens</i> (P), . Shells encrusted with serpulid worms (R) and pink coralline algae (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S9_V2_18.01	Megaripples of coarse sand and gravel with shells (2%) in troughs.	Poor visibility. No biota discernible.	SS.SCS.CCS	SB:GS	
S9_V2_18.02	Medium sand. Very sparse shells include <i>Ensis</i> .	Sediment covered with brown detrital dusting or diatom film (A) and with small mounds. Infaunal tubes (P), <i>Cancer pagurus</i> (O), <i>Pecten maximus</i> (R), <i>Luidia ciliaris</i> (P), small teleosts (P), live maerl (<1%, R), petaloid traces in film similar to those produced by the echiuran <i>Maxmuelleria</i> - but no corresponding mounds.	SS.SCS.ICS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S9_V2_18.03	Sand-scoured and heavily-dusted bedrock.	Poor visibility. Turf (A) probably dominated by red algae, with <i>Dictyota dichotoma</i> (P). Hydroids also present including <i>Nemertesia</i> spp. (P), and possibly <i>Flustra foliacea</i> (P). <i>Cliona celata</i> (R), <i>Urticina felina</i> (locally C), <i>Antedon</i> spp. (locally A), small shoal of small teleosts.	IR.HIR.KFaR.FoR	RF:BR	
S9_V2_18.04	Megaripples of coarse sand (50%), shell gravel (25%), dead maerl (20%), live maerl (3%) and shells (2%) including <i>Ensis</i> .	Live maerl c.3% (R). Shells encrusted with serpulid worms (P) and pink coralline algae (R). Infaunal tubes (P), <i>Pecten maximus</i> (P).	SS.SCS.CCS	SB:GS	
S9_V3_18.01	Medium sand with sparse live maerl (<1%) and shells (<1%).	Sediment covered with brown detrital dusting or diatom film (A) and with small mounds. Shells with serpulid worms (R).	SS.SCS.ICS	SB:GS	
S9_V3_18.02	Megarippled shell gravel (60%), coarse sand (28%), live maerl (10%) and shells (2%) including <i>Ensis</i> .	Poor visibility but live maerl possibly around 10% (F). Shells encrusted with pink coralline algae (R). <i>Lanice conchilega?</i> (P), <i>Pecten maximus?</i> (P), Rajidae sp. (P).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S9_V3_18.03	Sand-scoured bedrock with boulders (<1%) and coarse sediment patches (<1%).	Poor visibility. Rock with predominantly short turf, probably faunally dominated and including <i>Nemertesia</i> spp (P) and <i>Flustra foliacea</i> (R); also red algae and <i>Dictyota dichotoma</i> (locally C). <i>Cliona celata</i> (R), <i>Antedon</i> spp. (A locally), <i>Marthasterias glacialis</i> (F), <i>Asterias rubens</i> (C), <i>Luidia ciliaris</i> (C), <i>Echinus esculentus</i> (C), large shoal of small teleosts, pink encrusting coralline algae (R).	CR.HCR.XFa.FluCoAs	RF:BR	
S9_V3_18.04	Medium sand. Very sparse shells include <i>Ensis</i> .	Sediment covered with brown detrital dusting or diatom film (A) and with faunal tracks and crab pits. Infaunal tubes (P), <i>Luidia ciliaris</i> (F), live maerl (<1%, R).	SS.SCS.ICS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S9_V3_18.05	Partly megaripped coarse and medium sand (50%) with live maerl (20%), dead maerl (18%), shell gravel (10%) and shells (2%) including <i>Ensis</i> .	Live maerl around 20%, C, locally denser). Shells encrusted with serpulid worms (R), red algae (R) and pink coralline algae (R). <i>Antedon</i> sp. (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S9_V3_18.06	Sand-scoured and heavily-dusted bedrock.	Poor visibility. Turf (C-A) probably dominated by algae, with red algae (C, at least locally) and <i>Dictyota dichotoma</i> (F, at least locally). Hydroids also present including <i>Nemertesia ramosa</i> (P). <i>Cliona celata</i> (R), <i>Alcyonium digitatum</i> (R), <i>Urticina felina</i> (P), Pectiniidae sp. (P), <i>Coryphella</i> sp. (P), <i>Antedon</i> spp. (locally C), <i>Asterias rubens?</i> (P), <i>Luidia ciliaris</i> (P), <i>Henricia</i> sp.? (P), small teleost sp. (P). Kelp plants present, but probably largely drift material..	IR.HIR.KFaR.FoR	RF:BR	
S9_V3_18.07	Megaripped coarse sand (35%), live maerl (15%), dead maerl (30%), shell gravel (15%) and shells (5%); small bedrock outcrops (<1%).	Live maerl around 15%, (F). <i>Henricia</i> sp. (R). Shells encrusted with serpulid worms (R) and pink coralline algae (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S9_V4_18.01	Medium sand.	Poor visibility. Sediment covered with brown detrital dusting or diatom film (A). <i>Cancer pagurus?</i> in pit (P).	SS.SCS./CS	SB:GS	
S9_V4_18.02	Megariipples of coarse sand (25%), live maerl (25%), dead maerl (30%), shell gravel (15%) and shells (5%) including <i>Ensis</i> .	Well-developed maerl bed with live maerl (25%, C) in troughs and over crests. <i>Pecten maximus</i> (O), shoals of small teleost spp. (P). Shells encrusted with serpulid worms (P) and pink coralline algae (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S9_V4_18.03	Medium sand.	Poor visibility. Sediment covered with brown detrital dusting or diatom film (C). <i>Liocarcinus</i> sp. (P), small shoal of teleost sp.	SS.SCS.ICs	SB:GS	
S9_V4_18.04	Megaripples of coarse sand (25%), live maerl (25%), dead maerl (30%), shell gravel (15%) and shells (5%) including <i>Ensis</i> .	Fairly well-developed maerl bed with live maerl (perhaps 20%, C) in troughs and over crests. <i>Cancer pagurus</i> (P), <i>Pecten maximus</i> (P). Shells encrusted with serpulid worms (P) and pink coralline algae (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S9_V4_18.05	Sand-scoured bedrock	Poor visibility. Apparently short turf (C-A) with composition not discernible. Small <i>Laminaria hyperborea</i> (C) and possibly <i>Saccharina latissima</i> (P), some of which may be drift material. <i>Cliona celata</i> (R), <i>Alcyonium digitatum</i> (R), <i>Marthasterias glacialis</i> (O), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (C).	IR.HIR.KSed.XKScrR	RF:BR	
S9_V4_18.06	Megaripples of coarse sand (30%), live maerl (15%), dead maerl (35%), shell gravel (15%) and shells (5%) including <i>Ensis</i> .	Live maerl (c.15%, F) concentrated in troughs. <i>Cancer pagurus</i> (P), small <i>Brachyura</i> sp. (P), <i>Pecten maximus</i> (O), <i>Ophiothrix fragilis</i> (P), <i>Marthasterias glacialis</i> (P), <i>Asterias rubens</i> (P). Shells encrusted with serpulid worms (P) and pink coralline algae (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S9_V4_18.07	Sand-scoured bedrock	Poor visibility. Turf (A) including red algae (C), <i>Dictyota dichotoma</i> (P), <i>Flustra foliacea?</i> (P) and <i>Nemertesia ramosa</i> (P). Small kelp plants (C) including <i>Laminaria hyperborea</i> (P) and probably <i>Saccharina latissima</i> (P), some of which may be drift material. <i>Urticina felina</i> (P), <i>Pagurus prideaux</i> with <i>Adamsia palliata</i> (P), clumps of <i>Antedon</i> spp.? (locally A), <i>Henricia</i> sp. (O), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (O), shoal of small teleosts.	IR.HIR.KSed.XKScrR	RF:BR	
S9_V4_18.08	Megaripples of coarse sand (30%), live maerl (20%), dead maerl (30%), shell gravel (15%) and shells (5%).	Live maerl (c.20%, C). <i>Asterias rubens</i> (P), small teleost sp. (P). Shells encrusted with serpulid worms (P) and pink coralline algae (R).	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S10_V1_18	Medium sand throughout. Initially slightly rippled, becoming a little coarser with scattered shell gravel and then low megaripples with dense shells (10%) including <i>Ensis</i> in troughs.	Sparse live maerl (<1%, R). Shell material encrusted with serpulid worms (P), red algae (R) and pink coralline algae (R). <i>Pecten maximus</i> (R), <i>Asterias rubens</i> (F), <i>Astropecten irregularis?</i> (P), small teleost sp. (P). Patch of dense drift kelp.	SS.SCS.ICS	SB:GS	
S10_V2_18.01	Low megaripples of medium and coarse sand (68%) with concentrations of shell gravel (20%), shells (2%) and live maerl (10%) in broad troughs.	Large medallions of live maerl around 10% (F), at least locally. Shells encrusted with serpulid worms (P) and pink coralline algae (R). Many small teleosts (P), foliose red algae (R). Much kelp debris.	SS.SMp.Mri.Pcal.Nmix	SB:MB	MB
S10_V2_18.02	Mostly low megaripples of medium sand (73%) with concentrations of shell gravel (25%) and shells (2%) including <i>Ensis</i> , and sparse live maerl (<1%) and dead maerl (<1%) in broad troughs.	Sparsely scattered medallions of live maerl <1% (R). Shells encrusted with serpulid worms (P) and pink coralline algae (R). <i>Cancer pagurus</i> (P), <i>Asterias rubens</i> (P), small teleosts (P), <i>Callionymus</i> sp. (P), foliose red algae (R), <i>Saccharina latissima</i> (R). Much kelp debris.	SS.SCS.ICS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S10_V2_18.03	Low megaripples of medium and coarse sand (63%) with concentrations of shell gravel (20%), shells (2%) including <i>Ensis</i> , and live maerl (10%) and dead maerl (5%) in broad troughs.	Large medallions of live maerl around 10% (F). Much kelp debris.	SS.SMp.Mrl.Pcal.Nmix	SB:MB	MB
S10_V2_18.04	Medium sand (88%) with scattered shell gravel (10%), shells (2%) including <i>Ensis</i> , and live maerl (<1%) and dead maerl (<1%); megaripples locally and rippled locally.	Sparsely scattered medallions of live maerl <1% (R). Shells encrusted with serpulid worms (P) and pink coralline algae (R). <i>Cancer pagurus</i> (P), <i>Asterias rubens</i> (F), <i>Luidia ciliaris</i> (P), small teleosts (P), kelp debris.	SS.SCS./CS	SB:GS	
S10_V3_18	Medium sand (91%) , mostly slightly rippled, in places in megaripples with shell gravel (5%), shells (2%) including <i>Ensis</i> , live maerl (<1%) and pebbles (2%, locally 40%).	Sparsely scattered live maerl <1% (R, but locally denser in megarippled areas). Shells encrusted with serpulid worms (P), red algae (R) and pink coralline algae (R). Orange cushion sponge (R), hydroids (R), <i>Cancer pagurus</i> (P), <i>Marthasterias glacialis</i> (O), <i>Asterias rubens</i> (F), <i>Luidia ciliaris</i> (P), many small teleosts (P), foliose red algae (R).	SS.SCS./CS	SB:GS	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S10_V4_18	Mostly rippled medium sand (97%) but initially in megaripples with shells (1% overall) including <i>Ensis</i> , live maerl (<1% overall), shell gravel (5% initially, 2% overall), pebbles (<1%) and cobbles (<1%).	Sparsely scattered live maerl <1% (R, but locally denser in megarippled areas). Shells encrusted with serpulid worms (P), red algae (R) and pink coralline algae (R). <i>Cancer pagurus</i> (P), <i>Asterias rubens</i> (F), small teleosts (P), foliose red algae (R). Drift kelp present but some <i>Saccharina latissima</i> (O) and <i>Saccorhiza polyschides</i> (R) attached to cobbles.	SS.SCS.ICs	SB:GS	
S11_V1_18	Mixed and probably silty sediment with medium sand? (50%), coarse sand (25%) and shell gravel (25%). Sediment appears faintly banded at distance initially, but no sign of megaripples from close-up view.	Scattered hydroids (O).	SS.SSa.OSa		
S11_V2_18.01	Camera skirts bedrock/sediment boundary. Sediment muddy sand with shell gravel (20%) and shells (1%)	Rock supporting faunal turf (A) of hydroids and bryozoans including <i>Nemertesia ramosa</i> (P), <i>Halecium halecinum</i> (P), <i>Flustra foliacea</i> (O), <i>Porella compressa</i> (P) and <i>Alcyonidium diaphanum</i> (P). <i>Caryophyllia smithii</i> (locally C), <i>Parasmittina trispinosa?</i> (R), <i>Ascidia virginea</i> (P).	SS.SSa.OSa, CR.HCR.XFa	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S11_V2_18.02	Muddy sand (95%) with variable scatter of shell gravel (c.5% overall) and sparse boulders (<1%) and cobbles (<1%).	Scattered tufts of hydroids and/or bryozoans (R). Infaunal tubes (P), <i>Caryophyllia smithii</i> (O), Paguridae sp. (P), <i>Turritella communis</i> shells (P, probably empty), <i>Pecten maximus</i> (P), <i>Ophiura ophiura</i> (P), <i>Callionymus</i> sp. (P), shoal of small teleosts. Sediment with small mounds and faunal tracks and film of detritus or diatoms (A).	SS.SSa.OSa		
S11_V2_18.03	Bedrock with patches of muddy sand (2%).	Rock supporting faunal turf (A) of hydroids and bryozoans including <i>Nemertesia ramosa</i> (P), <i>N. antennina</i> (P), <i>Halecium halecinum</i> (P), <i>Flustra foliacea</i> (F), <i>Porella compressa</i> (P) and <i>Alcyonidium diaphanum</i> (P). <i>Cliona celata</i> (R), <i>Alcyonium digitatum</i> (R), <i>Antiopella cristata?</i> (P), <i>Asterias rubens</i> (P), <i>Ascidia mentula?</i> (P), <i>Diazona violacea</i> (O), shoals of small teleosts.	CR.HCR.XFa	RF:BR	
S11_V2_18.04	Muddy sand (95%) with scatter of shell gravel (5%).	Scattered tufts of hydroids and bryozoans (R) including <i>Flustra foliacea</i> (R) and <i>Porella compressa</i> (R). <i>Ophiura albida</i> (P). Sediment with small mounds and film of detritus or diatoms (A).	SS.SSa.OSa		
S11_V2_18.05	Mosaic of shelly muddy sand and small rock outcrops (60%)	Rock supporting faunal turf (S) of hydroids and probably bryozoans. <i>Cliona celata?</i> (R), <i>Alcyonium digitatum</i> (R).	SS.SSa.OSa, CR.HCR.XFa	RF:BR	
S11_V2_18.06	Muddy sand (80%) with shell gravel (20%).	Scattered tufts of hydroids and bryozoans (O) including <i>Nemertesia ramosa</i> (O) and <i>Flustra foliacea</i> (R). <i>Caryophyllia smithii</i> (P), <i>Pecten maximus</i> (O). Sediment with small mounds and film of detritus or diatoms (A).	SS.SSa.OSa		
S11_V2_18.07	Bedrock.	Rock supporting faunal turf (A) of hydroids and probably bryozoans including <i>Nemertesia ramosa</i> (C) and <i>N. antennina</i> (P) and foliose red algae (O). <i>Cliona celata</i> (R), pink encrusting coralline algae (O).	CR.HCR.XFa	RF:BR	
S11_V2_18.08	Muddy sand (95%) with shell gravel (5%) and sparse boulders (<1%).	Scattered tufts of hydroids and probably bryozoans (O). Boulder with <i>Caryophyllia smithii</i> (C locally) and pink encrusting coralline algae (R). Sediment with infaunal tubes, small mounds and film of detritus or diatoms (A). Live maerl (<1%, R).	SS.SSa.OSa		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S11_V2_18.09	Bedrock.	Rock supporting faunal turf (S) of hydroids and bryozoans including <i>Nemertesia ramosa</i> (P), <i>N. antennina</i> (P), <i>Flustra foliacea</i> (O), and foliose red algae (F). <i>Cliona celata</i> (R), <i>Asterias rubens</i> (P), <i>Luidia ciliaris</i> (P), pink encrusting coralline algae (R).	CR.HCR.XFa	RF:BR	
S11_V2_18.10	Muddy sand (95%) with shell gravel (15%) and scattered shells (1%, locally 30%).	Scattered tufts of hydroids and bryozoans (O) including <i>Nemertesia ramosa</i> and <i>Alcyonidium diaphanum</i> (P), and foliose red algae (R). Shells with pink encrusting coralline algae (R). Sediment with small mounds and film of detritus or diatoms (C) and supporting <i>Virgularia mirabilis</i> (locally C). <i>Epizoanthus couchii?</i> (P), <i>Ascidia virginea</i> (R), shoal of small teleosts.	SS.SSa.OSa		
S11_V2_18.11	Scoured bedrock with sand and gravel patches (<1%)	Mostly forest of <i>Laminaria hyperborea</i> (A, locally C) with <i>Saccharina latissima</i> (P). Fronds support dense <i>Obelia geniculata</i> . Turf of red algae (C, locally A) including <i>Delesseria sanguinea</i> , and <i>Dictyota dichotoma</i> (P). <i>Cliona celata</i> (R), <i>Nemertesia ramosa</i> (P), <i>Marthasterias glacialis</i> (P), <i>Diazona violacea</i> (P), dense small teleosts, pink encrusting coralline algae (R)	IR.HIR.KSed.XKScrR	RF:BR	
S11_V2_18.12	Muddy sand (69%) with shell gravel (30%) and shells (1%)	Sparse tufts of hydroids and/or bryozoans (R).	SS.SSa.OSa		
S11_V2_18.13	Scoured bedrock with small gravelly sand patches (1%).	Faunal and algal turf (S) including foliose red algae (C), <i>Dictyota dichotoma</i> (P), bryozoans including <i>Flustra foliacea</i> (O) and <i>Alcyonidium diaphanum</i> (P) and hydroids including <i>Nemertesia ramosa</i> (C, at least locally). Rock encrusted with <i>Cliona celata</i> (R), <i>Balanus</i> spp. (P) and pink coralline algae (R) and supporting <i>Caryophyllia smithii</i> (C, at least locally) and <i>Alcyonium digitatum</i> (R). <i>Munida rugosa</i> (P), Ophiuroidea sp. (P), <i>Asterias rubens</i> (P), <i>Marthasterias glacialis?</i> (P), shoal of small teleosts.	CR.HCR.XFa	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S11_V3_18.01	Bedrock, heavily-sediment dusted in places and with small patches of gravelly sand (1%).	Rock with dense algal turf (A, locally S) dominated by red algae (A) including <i>Delesseria sanguinia</i> , as well as <i>Dictyota dichotoma</i> (P). <i>Laminaria hyperborea</i> (O) with juvenile kelp (O). <i>Cliona celata</i> (R), <i>Nemertesia ramosa</i> (C locally), <i>N. antennina</i> (P), <i>Alcyonium digitatum</i> (R), <i>Antedon</i> spp. (locally A), <i>Asterias rubens</i> (P), <i>Luidia ciliaris</i> (O), <i>Echinus esculentus</i> (P), <i>Botryllus schlosseri</i> ? (R).	IR.HIR.KFaR.FoR	RF:BR	
S11_V3_18.02	Sand-scoured bedrock.	Faunal turf (S) including <i>Flustra foliacea</i> (O), <i>Nemertesia ramosa</i> (C) and <i>N. antennina</i> (P). Rock encrusted with <i>Cliona celata</i> (R) and supporting <i>Alcyonium digitatum</i> (R). Shoal of small teleosts.	CR.HCR.XFa	RF:BR	
S11_V3_18.03	Muddy sand with shell gravel (25%) and sparse boulders (<1%).	Scattered tufts of hydroids and bryozoans (R) including <i>Alcyonidium diaphanum</i> , <i>Alcyonium digitatum</i> (R), <i>Caryophyllia smithii</i> (locally F), <i>Pecten maximus</i> (O). Sediment with cover of detritus or diatoms (A) and supporting <i>Virgularia mirabilis</i> (O). Shoal of small teleosts.	SS.SSa.OSa		
S11_V3_18.04	Bedrock with small pockets of gravelly sand (<1%).	Rock supporting faunal turf (S) of hydroids and bryozoans including <i>Nemertesia ramosa</i> (P) and <i>Flustra foliacea</i> (F). <i>Cliona celata</i> (R), <i>Alcyonium digitatum</i> (R), <i>Swiftia pallida</i> (R), <i>Caryophyllia smithii</i> (C locally), <i>Parasmittina trispinosa</i> ? (R), <i>Antedon</i> sp. (R), <i>Marthasterias glacialis</i> (F), <i>Asterias rubens</i> (P), <i>Echinus esculentus</i> (F), <i>Ascidia virginea</i> (P), shoal of small teleosts, pink encrusting coralline algae (R).	CR.HCR.XFa	RF:BR	NS:SP
S11_V3_18.05	Muddy sand with shell gravel (20%) and small bedrock outcrop (<1 m ²).	<i>Pecten maximus</i> (P). Rock with turf of hydroids and/or bryozoans (locally S).	SS.SSa.OSa		
S11_V3_18.06	Boundary of bedrock (60%) and muddy sand (30%) with shell gravel (10%).	Rock with turf (S) of hydroids and/or bryozoans and <i>Alcyonium digitatum</i> (R).	CR.HCR.XFa, SS.SSa.OSa	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S11_V3_18.07	Silty sand with variable amounts of shell gravel (overall c.15%), locally rippled.	Occasional tufts of hydroids and over much of run patchy short turf of possibly dead hydroids (locally C). Sediment with faunal tracks, infaunal tubes (P) and small holes. <i>Suberites</i> sp.? (R), <i>Alcyonium digitatum</i> (R), <i>Caryophyllia smithii</i> (O), Paguridae spp. (O), <i>Antalis entalis</i> (C locally, although some shells possibly unoccupied, others with tracks), <i>Pecten maximus</i> (O), <i>Callionymus</i> sp. (R), shoal of small teleosts. Central section of run of cleaner sand and exhibiting parallel scars indicative of demersal fishing disturbance.	SS.SSa.OSa		
S11_V4_18.01	Bedrock.	Very poor visibility. Dense faunal turf (S) including <i>Flustra foliacea</i> (P) and <i>Diazona violacea</i> (C).	CR.HCR.XFa	RF:BR	
S11_V4_18.02	Muddy sand (88%) with shell gravel (10%), shells and large shell material (2%).	Hard substrates support <i>Suberites</i> sp.? (R), tufts of hydroids (F) including <i>Nemertesia ramosa</i> (P), <i>Swiftia pallida</i> (R), <i>Alcyonidium diaphanum</i> (P), <i>Diazona violacea</i> (P) and <i>Caryophyllia smithii</i> (P). Infaunal tubes (P), Paguridae sp. (P), <i>Ophiura ophiura</i> (P), <i>Henricia</i> sp.? (P), <i>Callionymus</i> sp. (P).	SS.SSa.OSa		NS:SP
S11_V4_18.03	Sand-scoured bedrock.	Rock with a faunal turf (S) including <i>Flustra foliacea</i> (O), <i>Alcyonidium diaphanum</i> (P), <i>Swiftia pallida</i> (F) and hydroids (P) including <i>Nemertesia ramosa</i> . <i>Suberites</i> sp.? (R), <i>Polymastia boletiformis</i> (R).	CR.HCR.XFa.SwiLgAs	RF:BR	NS:MT, NS:SP
S11_V4_18.04	Mosaic of muddy sand (30%) with shell gravel (30%) and boulders (40%).	Boulders with dense faunal turf (S) including hydroids such as <i>Nemertesia ramosa</i> and <i>N. antennina</i> , bryozoans including <i>Flustra foliacea</i> (R), <i>Pentapora foliacea</i> (F) and <i>Porella compressa?</i> (O). White branching sponge (R), <i>Caryophyllia smithii</i> (O, locally C), <i>Calliostoma zizyphinum</i> (P), <i>Henricia</i> sp. (P), <i>Ascidia</i> sp. (R), <i>Callionymus</i> sp. (P).	SS.SSa.OSa, CR.HCR.XFa	RF:ST	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S11_V4_18.05	Silted bedrock (98%), boulders (1%) and small patches of muddy sand (1%).	A very rich site. Rock supporting dense faunal turf (A, locally S) and locally turf of foliose red algae (C locally). Faunal turf includes hydroids such as <i>Nemertesia ramosa</i> (C locally) and <i>N. antennina</i> (P), bryozoans including <i>Flustra foliacea</i> (F), <i>Pentapora foliacea</i> (O), <i>Alcyonidium diaphanum</i> (P), <i>Porella compressa</i> (F). Ascidians include <i>Botryllus schlosseri</i> (R), <i>Diazona violacea</i> (F), <i>Ascidia mentula</i> (P) and <i>A. viginea?</i> (P). <i>Alcyonium digitatum</i> (R), <i>Caryophyllia smithii</i> (locally C): <i>Corynactis viridis</i> covers extensive areas (S locally) and there is a diverse sponge fauna including <i>Polymastia boletiformis</i> (F), <i>P. penicillus</i> (P), <i>Axinella infundibuliformis</i> (O), <i>Stelligera stuposa</i> (P), <i>Cliona celata</i> (R), white branching sponge (R), yellow encrusting sponge (R), orange encrusting sponge (R), orange branching sponge (R) and yellow branching sponge (R). <i>Swiftia pallida</i> (locally C, possibly O overall and may be limited to the deeper regions). <i>Munida rugosa</i> (P), <i>Cancer pagurus</i> (P), <i>Antedon</i> sp. (P), <i>Henricia</i> sp. (P), <i>Marthasterias glacialis</i> (P), <i>Porania pulvillus</i> (P), <i>Echinus esculentus</i> (P), shoal of small teleosts, pink encrusting coralline algae (O)..	CR.HCR.XFa.SwiLgAs	RF:BR	NS:MT, NS:SP
S11_V4_18.06	Muddy sand with variable quantities of shell gravel (overall c.10%) and larger shell material (1%).	Hard substrates support <i>Suberites</i> sp.? (R), tufts of hydroids and bryozoans (O) including <i>Nemertesia ramosa</i> (P), <i>Halecium halecinum</i> (R), <i>Flustra foliacea</i> (R), <i>Alcyonidium diaphanum</i> (R), and <i>Caryophyllia smithii</i> (O, locally F). Infaunal tubes (P), yellow encrusting sponge (R), worm casts (P), <i>Munida rugosa</i> (P), <i>Turritella communis</i> shells (R, possibly unoccupied), <i>Pecten maximus</i> (P), <i>Antiopella cristata</i> (P), <i>Ophiura ophiura</i> (P), <i>Henricia</i> sp.? (P), <i>Callionymus</i> sp. (P).	SS.SSa.OSa		
S11_V4_18.07	Muddy sand with shell gravel (30%).	Biotope mosaic of sediment habitat with areas (around 40%) of dense hydroid/bryozoan turf - presumably representing superficially-covered rock. Turf includes <i>Alcyonidium diaphanum</i> (P). Orange encrusting sponge/bryozoan (R).	SS.SSa.OSa, CR.HCR.XFa	RF:BR	
S11_V4_18.08	Muddy sand with shell gravel (10%) and sparse cobbles (<1%).	Scattered tufts (O) of hydroids and bryozoans including <i>Flustra foliacea</i> (R). Infaunal tubes (P), <i>Alcyonium digitatum</i> (R), <i>Caryophyllia smithii</i> (R), <i>Turritella communis</i> shells (P, probably empty), <i>Pecten maximus</i> (P),	SS.SSa.OSa		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
S11_V4_18.09	Muddy sand with shell gravel (30%).	Biotope mosaic of sediment habitat with areas (around 40%) of dense hydroid/bryozoan turf - presumably representing superficially-covered rock. Turf includes <i>Flustra foliacea</i> (R) and <i>Nemertesia antennina?</i> (P). Orange encrusting sponge/bryozoan (R), <i>Ophiura albida</i> (P).	SS.SSa.OSa, CR.HCR.XFa	RF:BR	
S11_V4_18.10	Muddy sand with shell gravel (15%).	Scattered tufts (O) of hydroids and bryozoans including <i>Nemertesia ramosa</i> (R). Infaunal tubes (P), <i>Caryophyllia smithii</i> (R), <i>Turritella communis</i> shells (P, probably empty), <i>Pecten maximus</i> (P), <i>Ophiura ophiura</i> (O).	SS.SSa.OSa		
SoM_01.01	Silted bedrock (98%) with small mud patches (2%).	Rock encrusted with pink coralline algae (R) and possibly <i>Parasmittina trispinosa</i> (R) and supporting <i>Axinella infundibuliformis/Phakellia ventilabrum</i> (O), <i>lophon nigricans</i> (O), short, thin turf of hydroids with some larger tufts (F), <i>Alcyonium digitatum</i> (R), <i>A. glomeratum</i> (R), <i>Swiftia pallida</i> (O), dense <i>Caryophyllia smithii</i> (C), <i>Securiflustra securifrons?</i> (O) and <i>Diazona violacea</i> (C). <i>Cancer pagurus</i> (P), <i>Leptometra celtica</i> (O), <i>Echinus esculentus</i> (F).	CR.HCR.XFa.SwiLgAs	RF:BR	NS:CS, NS:SP, LC
SoM_01.02	Mixed sediment of silty sand (60%) with gravel (25%), pebbles (10%) and cobbles (5%).	Stones with <i>lophon nigricans</i> (R), hydroids (O) and pink encrusting algae (R). <i>Cerianthus lloydii</i> (F), Paguridae sp. (P), <i>Leptometra celtica</i> (F), <i>Luidia ciliaris</i> (P).	SS.SMx.CMx		LC
SoM_01.03	Silted bedrock outcrops (40%) and boulders (20%) and cobbles (20%) on mixed sediment of silty, gravelly (4%) sand (12%) with pebbles (4%).	Rock encrusted with pink coralline algae (R) and possibly <i>Parasmittina trispinosa</i> (R) and supporting sponges including <i>lophon nigricans</i> (O), hydroids (F) including <i>Abietinaria abietina</i> (P), <i>Alcyonium digitatum</i> (R), <i>A. glomeratum</i> (R), <i>Swiftia pallida</i> (O, locally C)), <i>Metridium dianthus</i> (P), <i>Caryophyllia smithii</i> (C), <i>Securiflustra securifrons</i> (P) and <i>Diazona violacea</i> (C). <i>Leptometra celtica</i> (O), <i>Asterias rubens</i> (F), <i>Echinus esculentus</i> (C).	CR.HCR.XFa.SwiLgAs, SS.SMx.CMx	RF:BR, RF:ST	NS:CS, NS:SP, LC

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SoM_01.04	Mixed sediment of silty sand (55%) with gravel (35%), pebbles (3%) and cobbles (4%) and shells (3%).	Stones with <i>lophon nigricans</i> (R), hydroids (O), <i>Alcyonium digitatum</i> (R) and <i>Caryophyllia smithii</i> (R). <i>Cerianthus lloydii</i> (O), Paguridae sp. (P), <i>Leptometra celtica</i> (C).	SS.SMx.CMx		LC
SoM_02.01	Soft mud.	Moderately densely burrowed by <i>Calocaris macandreae</i> (C) and <i>Nephrops norvegicus</i> ((P). Very dense <i>Funiculina quadrangularis</i> (A). <i>Pennatula phosphorea</i> (O), <i>Turritella communis</i> (P).	SS.SMu.CFiMu.SpnMeg. Fun		BM:SB, BM:FQ
SoM_02.02	Mixed sediment of muddy sand (30%), gravel (15%) and pebbles (5%) with varying concentrations of cobbles (20%) and boulders (30%).	Stones encrusted with pink coralline algae (R, locally O) and <i>Parasmittina trispinosa</i> (R), red bryozoan (R) and supporting sponges including <i>lophon</i> sp. (R) and <i>Suberites carnosus?</i> (R), hydroids (F), <i>Alcyonium digitatum</i> (R), <i>Caryophyllia smithii</i> (F locally), juvenile <i>Balanus</i> spp. (P) and <i>Diazona violacea</i> (F). <i>Cerianthus lloydii</i> (O), <i>Urticina</i> sp. (P), <i>Funiculina quadrangularis</i> (P), <i>Asterias rubens</i> (F), <i>Echinus esculentus</i> (F).	CR.HCR.XFa, SS.SMx.CMx	RF:ST	BM:FQ
SoM_03.01	Muddy sand with shell gravel (10%), pebbles (2%) and cobbles (<1%).	Small holes in sediment, <i>Turritella communis</i> shells (at least some of which occupied by pagurid spp.), <i>Henricia</i> sp. (P). Stones with <i>Balanus</i> spp. (R) and hydroids (R).	SS.SSa.CMuSa		
SoM_03.02	Sandy mud.	Sediment moderately well-burrowed by <i>Calocaris macandreae</i> (C), <i>Nephrops norvegicus</i> (F) and possibly <i>Goneplax rhomboides</i> , and with small mounds. Small <i>Funiculina quadrangularis</i> (F), <i>Cerianthus lloydii</i> (O), Paguridae spp. (O), <i>Turritella communis</i> shells (probably empty), <i>Aequipecten opercularis?</i> (P), <i>Asterias rubens</i> (P), <i>Ophiura ophiura</i> (O), teleost sp. (P).	SS.SMu.CFiMu.SpnMeg. Fun		BM:SB, BM:FQ
SoM_04.01	Silted bedrock.	Rock encrusted with pink coralline algae (O) and <i>Parasmittina trispinosa?</i> (R) and supporting hydroids (O) including <i>Abietinaria abietina</i> , <i>Caryophyllia smithii</i> (F) and <i>Securiflustra securifrons</i> (R).	CR.MCR.EcCr.FaAlCr.C ar	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SoM_04.02	Muddy sand or sandy mud (70%) with scattered shell and stone gravel (15% but highly variable), pebbles (5%), cobbles (7%) and boulders (3%).	Stones encrusted with pink coralline algae (R) and <i>Parasmittina trispinosa?</i> (R) and supporting occasional hydroids. Sediment with <i>Cerianthus lloydii</i> (O) and small burrows in sediment patches with reduced gravel and stone content. Bonellidae sp. (P), <i>Munida rugosa</i> (O), <i>Turritella commuis</i> shells (P, probably empty), <i>Asterias rubens</i> (P), <i>Henricia</i> sp. (P), <i>Diazona violacea</i> (P).	SS.SMx.CMx		
SoM_04.03	Sandy mud (95%) with varying amounts of shell gravel (5% overall) and sparse cobbles (<1%) and boulders (<1%).	Sediment with moderate density of megafaunal burrows including those of <i>Calocaris macandreae</i> (P) and <i>Nephrops norvegicus</i> (F) and small mounds. <i>Funiculina quadrangularis</i> (F, but only 2 seen), Hydroids (R), <i>Cerianthus lloydii</i> (O), <i>Caryophyllia smithii</i> (R), <i>Pagurus prideaux</i> with <i>Adamsia palliata</i> (P), <i>Turritella communis</i> shells (probably empty except for inhabitation by Paguridae sp.), <i>Ophiura ophiura</i> (O), <i>Ophiura albida</i> (P), <i>Callionymus</i> sp. (P), teleost spp. (O). Discarded creel.	SS.SMu.CFiMu.SpnMeg. Fun		BM:SB, BM:FQ
SoM_05.01	Muddy sand (69%) with gravel (20%), pebbles (5%), cobbles (5%) and boulders (1%).	Stones encrusted with pink coralline algae (R) and <i>Parasmittina trispinosa?</i> (R) and supporting occasional hydroids and <i>Metridium dianthus</i> (F). Sediment with <i>Cerianthus lloydii</i> (F). <i>Turritella communis</i> shells (P, probably empty), <i>Pecten maximus</i> (P), Crinoidea spp. (C) including <i>Antedon</i> spp. (P), <i>Solaster endeca</i> (P), <i>Ophiura albida</i> (C locally), <i>Henricia</i> sp. (P).	SS.SMx.CMx		
SoM_05.02	Bedrock outcrops (40%) and cobbles (10%) and boulders (15%) on mixed sediment of muddy sand (20%), gravel (10%) and pebbles (5%).	Stones encrusted with pink coralline algae (R) and <i>Parasmittina trispinosa?</i> (R) and supporting sponges including <i>Iophon</i> sp. (R) and <i>Suberites carnosus</i> (R), hydroids (F), <i>Alcyonium digitatum</i> (R), <i>A. glomeratum</i> (R), <i>Metridium dianthus</i> (F), <i>Sagartia elegans miniata?</i> (P), <i>Caryophyllia smithii</i> (F locally), <i>Securiflustra securifrons?</i> (P), <i>Ascidia virginea</i> (O) and <i>Diazona violacea</i> (C). <i>Cerianthus lloydii</i> (O), <i>Pecten maximus</i> (P), Crinoidea spp. (C) including <i>Antedon</i> spp. and <i>Leptometra celtica</i> , <i>Crossaster papposus</i> (F), <i>Asterias rubens</i> (F), <i>Ophiura albida</i> (C locally), <i>Echinus esculentus</i> (C).	CR.HCR.XFa, SS.SMx.CMx	RF:BR, RF:ST	LC

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SoM_05.03	Mixed sediment of muddy sand (50%), gravel (40%), shells (2%) and pebbles (4%) with scattered cobbles (3%) and boulders (1%).	Stones encrusted with pink coralline algae (R) and supporting hydroids (R) and lophon sp. (R). Sediment with <i>Cerianthus lloydii</i> (F) and sparse burrows. Crinoidea spp. (F, locally A) including <i>Antedon</i> spp. and <i>Leptometra celtica</i> , <i>Ophiura albida</i> (C locally), <i>Asterias rubens</i> (P).	SS.SMx.CMx		LC
SoM_05.04	Sediment-dusted bedrock (45%) and boulders (25%) and cobbles (15%) on gravelly sand (15%).	Rock encrusted with pink coralline algae supports park of <i>Saccharina latissima</i> (F) and <i>Laminaria hyperborea</i> (P) and turf of foliose red algae (O) and hydroids, as well as <i>lophon</i> sp. (R), <i>Suberites carnosus</i> (R), <i>Alcyonium digitatum</i> (R) and <i>Metridium dianthus</i> (F). <i>Cerianthus lloydii</i> (P), Crinoidea spp. (F, locally A) including <i>Antedon</i> spp. and <i>Leptometra celtica</i> , <i>Marthasterias glacialis</i> (P), <i>Asterias rubens</i> (P), <i>Echinus esculentus</i> (P).	IR.HIR.KSed.XKScrR	RF:BR, RF:ST	LC
SoM_06.01	Muddy sand (40%) with gravel (15%, locally much greater), pebbles (10%), cobbles (30%) and boulders (5%).	Considered a mosaic of sediment and smaller stones (with little sessile epibiota) and larger cobbles and boulders (with rich epibiota). Larger stones encrusted with pink coralline algae (R) and <i>Parasmittina trispinosa</i> (R) and supporting sponges including <i>lophon</i> sp. (R), <i>Suberites carnosus</i> (R), hydroid turf (C, locally A), <i>Alcyonium digitatum</i> (R), <i>A. glomeratum</i> (R), <i>Swiftia pallida</i> (O), <i>Caryophyllia smithii</i> (F), <i>Sagartia elegans?</i> (R), <i>Securiflustra securifrons</i> (R) and <i>Diazona violacea</i> (C, locally A). Sediment with sparse small burrows and <i>Cerianthus lloydii</i> (F). <i>Pecten maximus</i> (O), <i>Leptometra celtica</i> (C, locally A), <i>Crossaster papposus</i> (P), <i>Asterias rubens</i> (F), <i>Ophiothrix fragilis</i> (R, locally C), <i>Ophiura albida</i> (C locally), teleost sp. (P).	CR.HCR.XFa.SwiLgAs, SS.SMx.CMx	RF:ST	NS:CS, NS:SP, LC
SoM_06.02	Silted bedrock (70%) and boulders (30%).	Rock supporting <i>lophon</i> sp. (R), <i>Axinella infundibuliformis</i> / <i>Phakellia ventilabrum</i> (O), <i>Suberites carnosus</i> (R), hydroids (F) including <i>Sertularia</i> sp.? (P), <i>Alcyonium digitatum</i> (R), <i>A. glomeratum</i> (R), <i>Swiftia pallida</i> (C), <i>Caryophyllia smithii</i> (C), <i>Sagartia elegans?</i> (P). Crinoidea spp. (F), <i>Echinus esculentus</i> (C).	CR.HCR.XFa.SwiLgAs	RF:BR, RF:ST	NS:CS, NS:SP

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SoM_07.01	Mixed sediment of muddy sand (30%), gravel (25%) and pebbles (10%) with cobbles (30%) and boulders (5%).	Cobbles and boulders with <i>Iophon</i> sp. (R), hydroid turf (A), <i>Alcyonium digitatum</i> (R), <i>A. glomeratum</i> (R), <i>Swiftia pallida</i> (single colony seen), <i>Caryophyllia smithii</i> (R), <i>Metridium dianthus</i> (P). <i>Cerianthus lloydii</i> (P), <i>Munida rugosa</i> (P), Paguridae sp. (P), <i>Buccinum undatum</i> (P), Crinoidea spp. (F), <i>Asterias rubens</i> (F), <i>Henricia</i> sp. (O), <i>Ophiocomina nigra</i> (F overall but small patch of A), <i>Ophiura albida</i> (C locally), <i>Amphiura</i> spp. (P), <i>Echinus esculentus</i> (P), teleost sp. (P).	CR.HCR.XFa, SS.SMx.CMx	RF:ST	NS:SP
SoM_07.02	Silted bedrock (2%), boulders (45%) and cobbles (45%) with small gravelly (3%) muddy sand (5%) patches.	Rock encrusted with <i>Parasmittina trispinosa</i> ? (R) and supporting <i>Iophon</i> sp. (R), <i>Axinella infundibuliformis</i> (P), hydroid turf (A), <i>Alcyonium digitatum</i> (R, locally C), <i>A. glomeratum</i> (R), <i>Swiftia pallida</i> (F, locally C), <i>Caryophyllia smithii</i> (F), <i>Ascidia virginea</i> ? (P) and <i>Diazona violacea</i> (F). <i>Munida rugosa</i> (O), Crinoidea spp. (O), <i>Asterias rubens</i> (F), <i>Henricia</i> sp. (O), <i>Echinus esculentus</i> (F), teleost sp. (O).	CR.HCR.XFa.SwiLgAs	RF:ST	NS:CS, NS:SP
SoM_07.03	Silted boulders (5%) and cobbles (90%) with small gravelly (2%) muddy sand (3%) patches.	Stones encrusted with <i>Parasmittina trispinosa</i> ? (R) and supporting hydroid turf (A) and <i>Alcyonium digitatum</i> (R). <i>Munida rugosa</i> (O), Crinoidea spp. (F), <i>Asterias rubens</i> (F), teleost sp. (P).	CR.HCR.XFa	RF:ST	
SoM_08.01	Mixed sediment of gravel (40%) and muddy sand (20%), with silted cobbles (10%), boulders (20%) and outcropping bedrock (10%).	Rock with cream cushion sponge (R), hydroids (F), <i>Alcyonium digitatum</i> (R), <i>Salmacina dysteri</i> / <i>Filograna implexa</i> (R) and <i>Novocrania anomala</i> ? (P). <i>Sabella pavonina</i> (P), <i>Chaetopterus variopedatus</i> ? (P), <i>Munida rugosa</i> (F), Paguridae sp. (P), <i>Inachus</i> sp. (P), Ophiuroidea spp. (F) including <i>Ophiocomina nigra</i> and <i>Ophiothrix fragilis</i> , <i>Echinus esculentus</i> (F).	CR.LCR, SS.SMx.CMx	RF:BR, RF:ST	
SoM_08.02	Silted bedrock (80%) with ledges retaining pockets of gravelly (10%) muddy sand (10%).	Patchy ophiuroid bed dominated by <i>Ophiothrix fragilis</i> (S) with <i>Ophiocomina nigra</i> (locally C). Hydroids (O), <i>Salmacina dysteri</i> / <i>Filograna implexa</i> (R), <i>Echinus esculentus</i> (P).	CR.LCR.BrAs.AmenCio. Bri	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SoM_08.03	Mixed sediment of gravel (20%) and muddy sand (50%), with silted cobbles (5%), boulders (20%) and shells and large shell material (5%).	Stones with hydroids (C), <i>Alcyonium digitatum</i> (R), <i>Urticina eques</i> (P), <i>Salmacina dysteri</i> / <i>Filograna implexa</i> (R) and <i>Novocrania anomala</i> ? (C locally). <i>Munida rugosa</i> (F), <i>Ophiocomina nigra</i> (P) and <i>Ophiothrix fragilis</i> (very locally S), <i>Asterias rubens</i> (P), <i>Echinus esculentus</i> (P).	CR.LCR, SS.SMx.CMx	RF:ST	
SoM_08.04	Mixed sediment of gravel (15%) and muddy sand (15%), with pebbles (5%), silted cobbles (30%), boulders (30%) and shells and large shell material (5%).	Patchy ophiuroid bed with <i>Ophiothrix fragilis</i> (S) and <i>Ophiocomina nigra</i> (C locally). Hydroids (O), <i>Alcyonium digitatum</i> (R), <i>Urticina eques</i> (P), <i>Munida rugosa</i> (F), small Pectiniidae sp. (P), <i>Novocrania anomala</i> (locally C), <i>Henricia</i> sp. (P), <i>Echinus esculentus</i> (P).	CR.LCR.BrAs.AmenCio. Bri	RF:ST	
SoM_08.05	Mixed sediment of gravel (40%) and muddy sand (45%), with pebbles (5%) and shells and large shell material (10%).	Small patches of <i>Ophiothrix fragilis</i> (locally S) but <i>Ophiocomina nigra</i> more widely distributed (C over extensive area). Hydroids (F), <i>Urticina eques</i> (P), <i>Chaetopterus variopedatus</i> (P), <i>Salmacina dysteri</i> / <i>Filograna implexa</i> (R), <i>Munida rugosa</i> (O), Paguridae spp. (O), <i>Crossaster papposus</i> (F), <i>Asterias rubens</i> (F), <i>Henricia</i> sp. (O), <i>Luidia sarsii</i> (P), <i>Echinus esculentus</i> (F), teleost spp. (O), very sparse burrows including <i>Nephrops norvegicus</i> (P, 1 animal seen). Discarded shoe.	SS.SMx.CMx		
SoM_09	Shells and large shell pieces including much <i>Modiolus modiolus</i> (40%), shell gravel (40%), muddy sand (20%).	<i>Alcyonium digitatum</i> (R), hydroids (F), <i>Cerianthus lloydii</i> (F), <i>Urticina</i> sp. (P), <i>Chaetopterus variopedatus</i> (P), <i>Salmacina dysteri</i> / <i>Filograna implexa</i> (R), <i>Munida rugosa</i> (O), Paguridae spp. (O) including <i>Pagurus bernhardus</i> (P), small Brachyura sp. (P), <i>Pecten maximus</i> (P), small <i>Aequipecten opercularis</i> ? (O), <i>Asterias rubens</i> (O), <i>Henricia</i> sp. (R), <i>Echinus esculentus</i> (F), teleost spp. (O).	SS.SMx.CMx		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SoM_10	Muddy sand (80%) with gravel (15%) and shells (5%) including <i>Modiolus modiolus</i> ; boulder (<1%).	<i>Modiolus modiolus</i> separated and in scattered small clumps with many deeply immersed in sediment (probably C overall - see e.g.HD 00:06:53 - 00:07:00 and photos). Shells and live <i>Modiolus</i> clumps mostly obscured by epibiota including <i>Ophiothrix fragilis</i> (C), <i>Ophiocomina nigra</i> (P), hydroids (F) including <i>Nemertesia antennina</i> (P) and <i>Alcyonium digitatum</i> (O). Dense <i>Thyonidium</i> sp. (C) and <i>Aequipecten opercularis</i> (C). Yellow cushion sponge (R), <i>Cliona celata</i> (R, on boulder), <i>Munida rugosa</i> (O), Paguridae spp. (O) including <i>Pagurus bernhardus</i> , <i>Inachus</i> sp. (R), <i>Buccinum undatum</i> (O), <i>Crossaster papposus</i> (P), <i>Henricia</i> sp. (R), <i>Anseropoda placenta</i> (R), <i>Echinus esculentus</i> (F), <i>Scyliorhinus canicula</i> (P), teleost spp. (R).	SS.SBR.SMus.ModHAs		HM:FH
SoM_11.01	Mosaic of bedrock outcrops (25%), boulders (10%) and cobbles (25%) on muddy sand (30%) with gravel (8%) and pebbles (2%).	Considered as mosaic of rock and muddy sand, though the latter attains mixed sediment status locally. Rock encrusted with pink coralline algae (R), <i>Parasmittina trispinosa</i> (R), <i>Spirobranchus</i> spp. (C locally though generally R) and <i>Balanus</i> spp.(dense on some stones), and supports hydroids (O, though F locally) including <i>Abietinaria abietina</i> (P), <i>Alcyonium digitatum</i> (R, F locally). Four colonies of <i>Swiftia pallida</i> were observed (O). Sediment with <i>Cereus pedunculatus</i> (P), one small <i>Virgularia mirabilis</i> (R), <i>Ophiura albida</i> (A) and Holothuroidea spp. (P). <i>Munida rugosa</i> (O), <i>Brachyura</i> sp. (P), <i>Calliostoma zizyphinum</i> (P), <i>Pecten maximus</i> (O), <i>Antedon</i> spp. (F), <i>Crossaster papposus</i> (F), <i>Asteria rubens</i> (F), <i>Solaster endeca</i> (F), <i>Ophiothrix fragilis</i> (P), <i>Ophiocomina nigra</i> (P), <i>Echinus esculentus</i> (C), <i>Psammechinus miliaris</i> (P), teleost sp. (P).	CR.MCR.EcCr.FaAlCr, SS.SSa.CMuSa	RF:BR, RF:ST	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SoM_11.02	Mosaic of sand-dusted bedrock outcrops (65%), and cobbles (15%) with muddy sand (12%), gravel (6%) and pebbles (2%).	Considered as mosaic of rock and mixed sediment. Rock encrusted with pink coralline algae (F), <i>Parasmittina trispinosa</i> (R), dark orange bryozoan (R), <i>Spirobranchus</i> spp. (C locally though generally R) and <i>Balanus</i> spp.(dense locally), and supports hydroids (O, though F locally) including <i>Abietinaria abietina</i> (P), <i>Alcyonium digitatum</i> (C, A locally), <i>Caryophyllia smithii</i> (P), Polyplacophora sp. (P) and <i>Diazona violacea</i> (P). One colony of <i>Swiftia pallida</i> was observed (P). Sediment with <i>Ophiura albida</i> (C locally) and Holothuroidea sp. (P). <i>Munida rugosa</i> (P), <i>Calliostoma zizyphinum</i> (P), <i>Pecten maximus</i> (O), <i>Antedon</i> spp. (P), <i>Crossaster papposus</i> (F), <i>Asteria rubens</i> (F), <i>Henricia</i> sp. (P), <i>Echinus esculentus</i> (F), <i>Psammechinus miliaris</i> (P).	CR.MCR.EcCr.FaAlCr.A dig, SS.SMx.CMx	RF:BR, RF:ST	
SoM_11.03	Mosaic of sand-dusted bedrock outcrops (35%), boulders (5%) and cobbles (10%) with muddy sand (35%), gravel (12%) and pebbles (3%).	Considered as mosaic of rock and mixed sediment. Rock encrusted with pink coralline algae (R), <i>Parasmittina trispinosa</i> ? (R) and <i>Balanus</i> spp.(dense locally), and supports hydroids (O, though F locally) including <i>Abietinaria abietina</i> (P), <i>Alcyonium digitatum</i> (R) and <i>cream cushion sponge</i> (R). One colony of <i>Swiftia pallida</i> was observed (P). Sediment with <i>Ophiura albida</i> (C locally) and Holothuroidea sp.? (P). <i>Munida rugosa</i> (P), Paguridae sp. (P), <i>Calliostoma zizyphinum</i> (O), <i>Antedon</i> spp. (F), <i>Asteria rubens</i> (F), <i>Echinus esculentus</i> (F), <i>Polycarpa pomaria</i> (P).	CR.MCR.EcCr.FaAlCr, SS.SMx.CMx	RF:BR, RF:ST	
LS_01.01	Highly mixed substrate of gravelly (15%) sand (30%) with pebbles (5%), cobbles (25%), boulders (15%) and bedrock outcrops (10%).	Considered a mosaic of mixed sediment and rock. Rock supports dense, patchy hydroid turf (A, locally less on bedrock), cream cushion/nodular sponge (R), <i>Caryophyllia smithii</i> (F, locally C), <i>Metridium dianthus</i> (F), <i>Alcyonium digitatum</i> (R), <i>A. glomeratum</i> (R), <i>Swiftia pallida</i> (O, 3 colonies seen), <i>Balanus</i> spp. juveniles (P) and <i>Novocrania anomala</i> (C locally). <i>Cerianthus lloydii</i> (C), <i>Munida rugosa</i> (F), <i>Brachyura</i> sp. (P), <i>Asterias rubens</i> (F), <i>Solaster endeca</i> (F), <i>Crossaster papposus</i> (P), <i>Echinus esculentus</i> (C).	CR.HCR.XFa, SS.SMx.CMx.CIloMx	RF:BR, RF:ST	NS:SP

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LS_01.02	Mixed sediment of silty sand (50%) with gravel (30%), pebbles (15%) and cobbles (5%).	Sediment with <i>Cerianthus lloydii</i> (C). Stones support hydroid clumps (O), <i>Metridium dianthus</i> (P) and <i>Balanus</i> spp. (P). <i>Munida rugosa</i> (F), <i>Pecten maximus</i> (P), <i>Henricia</i> sp. (P), <i>Solaster endeca</i> (P), <i>Echinus esculentus</i> (P).	SS.SMx.CMx.CiloMx		
LS_02.01	Silty, gravelly (35%) sand (45%) with pebbles (10%), shells (5%) including <i>Modiolus modiolus</i> and cobbles (5%).	Shells and stones with hydroids (F), <i>Balanus</i> spp. juveniles (O) and cream cushion/nodular sponge (R). <i>Cerianthus lloydii</i> (C), <i>Chaetopterus variopedatus?</i> (P), <i>Munida rugosa</i> (F), <i>Pagurus prideaux</i> with <i>Adamsia palliata</i> (P), <i>Echinus esculentus</i> (F).	SS.SMx.CMx.CiloMx		
LS_02.02	Silty, gravelly (25%) sand (35%) with pebbles (10%), shells (5%) including <i>Modiolus modiolus</i> , cobbles (15%) and boulders (10%).	Stones supporting patchy, diverse, hydroid turf (C, locally A) including <i>Nemertesia antennina</i> , <i>Caryophyllia smithii</i> (F), <i>Alcyonium digitatum</i> (R), <i>A. glomeratum</i> (R) and <i>Balanus</i> spp. juveniles (P). Sediment with <i>Cerianthus lloydii</i> (F, C locally) and <i>Chaetopterus variopedatus?</i> (P). <i>Munida rugosa</i> (F), <i>Pagurus prideaux</i> with <i>Adamsia palliata</i> (P), <i>Coryphella</i> sp.? (P), <i>Asterias rubens</i> (P), <i>Echinus esculentus</i> (C), teleost sp. (P).	CR.HCR.XFa, SS.SMx.CMx.CiloMx	RF:ST	
LS_02.03	Mixed sediment of silty sand (35%), gravel (35%), pebbles (25%) and shells (5%) with cobbles initially (<1%).	Stones supporting hydroid tufts (F) including <i>Nemertesia antennina</i> and <i>Sertularia</i> sp., <i>Alcyonium digitatum</i> (R), <i>Balanus</i> spp. juveniles (C locally), serpulid worms (F locally) and Ascidiacea sp. (R). <i>Cerianthus lloydii</i> (O), <i>Sagartia elegans?</i> (R) and <i>Chaetopterus variopedatus</i> (O). <i>Munida rugosa</i> (F), Paguridae spp. (O) including <i>Pagurus prideaux</i> with <i>Adamsia palliata</i> (P), <i>Brachyura</i> sp. (P), <i>Hyas</i> sp.? (P), <i>Aequipecten opercularis</i> (R), <i>Asterias rubens</i> (P), <i>Marthasterias glacialis</i> (P), <i>Henricia</i> sp. (R), <i>Echinus esculentus</i> (F), <i>Scyliorhinus canicula</i> (P), <i>Pleuronectiformes</i> sp. (P).	SS.SMx.CMx		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LS_02.04	Mixed sediment of silty sand (33%), gravel (15%), pebbles (15%) and shells (2%) with cobbles (35%).	Stones supporting hydroid turf (C) <i>Alcyonium digitatum</i> (R), <i>A. glomeratum</i> (R), <i>Balanus</i> spp. juveniles (C locally), cream cushion sponge (R) and cream digitiform sponge (R). <i>Cerianthus lloydii</i> (C), <i>Sagartia elegans?</i> (R), <i>Urticina eques</i> (O) and <i>Chaetopterus variopedatus</i> (F). <i>Munida rugosa</i> (F), <i>Inachus</i> sp. (P), <i>Aequipecten opercularis</i> (P), <i>Henricia</i> sp. (R), <i>Echinus esculentus</i> (F), <i>Scyliorhinus canicula</i> (P).	CR.HCR.XFa, SS.SMx.CMx.CiloMx	RF:ST	
LS_02.05	Mixed sediment of silty sand (33%), gravel (40%), pebbles (25%) and shells (2%) with sparse cobbles (<1%).	Stones and shells supporting hydroid tufts (F) including <i>Nemertesia antennina</i> , <i>Alcyonium digitatum</i> (R), <i>Balanus</i> spp. juveniles (C). <i>Cerianthus lloydii</i> (F), <i>Sagartia elegans?</i> (R), <i>Urticina eques</i> (R), <i>Metridium dianthus</i> (P), and <i>Chaetopterus variopedatus</i> (O). <i>Munida rugosa</i> (O), Paguridae spp. (O) including <i>Pagurus prideaux</i> with <i>Adamsia palliata</i> (P), <i>Aequipecten opercularis</i> (O), <i>Ophiura albida</i> (P), <i>Ophiocomina nigra</i> (generally absent, but appearing around boundary with following biotope), <i>Crossaster papposus</i> (F), <i>Asterias rubens</i> (F), <i>Henricia</i> sp. (R), <i>Porania pulvillus</i> (R), <i>Echinus esculentus</i> (F), <i>Scyliorhinus canicula</i> (P), teleost sp. (P).	SS.SMx.CMx.CiloMx		
LS_02.06	Bedrock cliff, then bedrock and boulders.	Big gaps in seabed visibility but apparently largely bedrock supporting dense <i>Alcyonium digitatum</i> (A) and <i>Ophiothrix fragilis</i> (S), with <i>Ophiocomina nigra</i> (P), <i>Urticina eques</i> (P) and <i>Metridium dianthus</i> (C locally). <i>Asterias rubens</i> (P), <i>Echinus esculentus</i> (P).	CR.LCR.BrAs.AmenCio. Bri	RF:BR, RF:ST	
LS_02.07	Mixed sediment of silty sand (35%), gravel (20%), pebbles (10%) with cobbles (35%).	<i>Ophiothrix fragilis</i> (S), <i>Ophiocomina nigra</i> (C), <i>Urticina</i> sp. (P).	SS.SMx.CMx.OphMx	RF:ST	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LS_02.08	Mixed sediment of silty sand (50%), gravel 30%), pebbles (20%) with sparse cobbles (<1%).	Stones supporting hydroid tufts (F) including <i>Nemertesia antennina</i> , <i>Alcyonium digitatum</i> (R), <i>Balanus</i> spp. juveniles (C locally). <i>Cerianthus lloydii</i> (F), <i>Sagartia elegans?</i> (O), and <i>Chaetopterus variopedatus</i> (O). <i>Munida rugosa</i> (O), Paguridae spp. (O) including <i>Pagurus prideaux</i> with <i>Adamsia palliata</i> (P), Crinoidea spp. (R), <i>Ophiura albida</i> (P), <i>Ophiocomina nigra</i> (O, locally A), <i>Asterias rubens</i> (P), <i>Henricia</i> sp. (R), <i>Astropecten irregularis</i> (R), <i>Echinus esculentus</i> (F), teleost sp. (P).	SS.SMx.CMx.CloMx		
LS_03.01	Dense cobbles (60%) and boulders (20%) on silty, gravelly sand.	Stones support hydroid turf (A) including <i>Nemertesia antennina</i> , cream and yellow cushion sponges (R), <i>Metridium dianthus</i> (O), <i>Caryophyllia smithii</i> (F locally), <i>Chaetopterus variopedatus</i> (P), <i>Sabella pavonina</i> (P), <i>Serpula vermicularis</i> (F locally), <i>Balanus</i> spp. juveniles (P), <i>Novocrania anomala</i> (C locally) and <i>Asciidiella</i> spp.? (C locally). <i>Munida rugosa</i> (F), <i>Crossaster papposus</i> (P), <i>Asterias rubens</i> (F), <i>Porania pulvillus</i> (P), <i>Echinus esculentus</i> (F).	CR.LCR.BrAs.AntAsH	RF:ST	
LS_03.02	Bedrock outcrop with steep faces.	Dense <i>Ophiothrix fragilis</i> (S) with <i>Ophiocomina nigra</i> (P), <i>Novocrania anomala</i> (C locally), hydroids (A locally) and <i>Asciadiacea</i> sp. (P). <i>Munida rugosa</i> (P), <i>Asterias rubens</i> (P), <i>Echinus esculentus</i> (P).	CR.LCR.BrAs.AmenCio. Bri	RF:BR	
LS_03.03	Silted boulders (45%) and cobbles (45%) with muddy, gravelly sand infill (10%).	Stones with hydroid turf, <i>Ascidia mentula?</i> (C locally). <i>Munida rugosa</i> (F), <i>Asterias rubens</i> (P), <i>Echinus esculentus</i> (P),	CR.LCR.BrAs.AntAsH	RF:ST	
LS_03.04	Flat, silted bedrock.	Rock supporting <i>Caryophyllia smithii</i> (C), <i>Novocrania anomala</i> (F) and <i>Swiftia pallida</i> (P). <i>Echinus esculentus</i> (P).	CR.MCR.EcCr.CarSwi.L gAs	RF:BR	NS:CS, NS:SP
LS_03.05	Mixed substrate composed of varying proportions of silted cobbles, boulders on silty, gravelly sand and small bedrock outcrops.	Rock supports hydroid turf (C), cream cushion sponge (R), yellow globular sponge (R), <i>Caryophyllia smithii</i> (F locally), <i>Balanus</i> spp. juveniles (C locally), <i>Novocrania anomala</i> (P) and <i>Ascidia mentula?</i> (P). <i>Cerianthus lloydii</i> (P), <i>Munida rugosa</i> (F), Paguridae spp. (O), <i>Thyonidium drummondii</i> (F), <i>Asterias rubens</i> (F), <i>Echinus esculentus</i> (C).	CR.LCR.BrAs.AntAsH, SS.SMx.CMx	RF:ST	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LS_04.01	Mixed sediment of silty sand (44%), gravel (30%), pebbles (15%) and shells (8%) with sparse cobbles (3%).	Stones and shells support hydroid tufts (F) including <i>Nemertesia antennina</i> , <i>Urticina eques</i> (O) and <i>Balanus</i> spp. juveniles (F locally). <i>Cerianthus lloydii</i> (F), <i>Chaetopterus variopedatus</i> (F), <i>Munida rugosa</i> (O), <i>Pagurus prideaux</i> with <i>Adamsia palliata</i> (O), <i>Buccinum undatum</i> (P), <i>Aequipecten opercularis</i> (P), <i>Ophiocomina nigra</i> (O), <i>Henricia</i> sp. (P), <i>Astropecten irregularis</i> (P), <i>Echinus esculentus</i> (F).	SS.SMx.CMx.CiloMx		
LS_04.02	Mixed sediment of silty sand (33%), gravel (30%), pebbles (25%), shells (2%) and cobbles (10%).	Stones support hydroid tufts (F) including <i>Rhizocaulus verticillatus</i> (P) and <i>Abietinaria abietina?</i> (P), <i>Alcyonium digitatum</i> (R) and <i>Balanus</i> spp. juveniles (P). <i>Cerianthus lloydii</i> (P), <i>Chaetopterus variopedatus</i> (C), <i>Sabella pavonina</i> tube? (P), <i>Munida rugosa</i> (P), <i>Aequipecten opercularis?</i> (P), <i>Ophiocomina nigra</i> (A, locally S), <i>Echinus esculentus</i> (P), teleost sp. (P).	SS.SMx.CMx.OphMx		
LS_04.03	Mixed sediment of silty sand (30%), gravel (25%), pebbles (25%), shells (15%) and cobbles (5%).	Stones and shells support hydroid tufts (F), <i>Alcyonium digitatum</i> (R), <i>Urticina eques</i> (O) and <i>Balanus</i> spp. juveniles (P). <i>Cerianthus lloydii</i> (F), <i>Chaetopterus variopedatus</i> (F), Paguridae spp. (O) including <i>Pagurus prideaux</i> with <i>Adamsia palliata</i> (O), <i>Inachus</i> sp. (P), <i>Aequipecten opercularis</i> (F), <i>Ophiocomina nigra</i> (O), <i>Henricia</i> sp. (P), <i>Echinus esculentus</i> (F), <i>Thyonidium drummondii?</i> (P), <i>Corella parallelogramma?</i> (P).	SS.SMx.CMx.CiloMx		
LS_05.01	Silty sand (30%) with shells (45%), gravel (10%) and pebbles (15%).	Hydroid tufts (F), <i>Alcyonium digitatum</i> (R), <i>Metridium dianthus</i> (A), <i>Cerianthus lloydii</i> (F), <i>Munida rugosa</i> (O), <i>Cancer pagurus</i> (P), <i>Ophiothrix fragilis</i> (C, locally A).	SS.SMx.CMx.CiloMx		
LS_05.02	Steep silted, bedrock slope with boulders (1%) and cobbles (1%) at base.	Rock with virtual monoculture of dense <i>Metridium dianthus</i> (S). Digitiform sponge (R), hydroids (R), <i>Alcyonium digitatum</i> (R), <i>Urticina eques</i> (P), <i>Munida rugosa</i> (P), <i>Asterias rubens</i> (P), <i>Echinus esculentus</i> (C).	CR	RF:BR	
LS_05.03	Silted bedrock with steep faces.	Rock supporting dense <i>Alcyonium digitatum</i> (A), <i>Metridium dianthus</i> (locally C), <i>Caryophyllia smithii</i> (C), <i>Sagartia elegans?</i> (R), hydroids (R) including <i>Abietinaria abietina?</i> and a digitiform sponge (R). <i>Asterias rubens</i> (O), <i>Echinus esculentus</i> (C).	CR.MCR.EcCr.AdigVt	RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LS_05.04	Bedrock outcrops (5%), boulders (20%) and cobbles (25%) on gravelly (5%) sand (25%) with pebbles (20%).	Rock supporting hydroids (F) and solitary ascidians including <i>Ascidia mentula</i> ? although density cannot be discerned due to poor visibility. Also <i>Alcyonium digitatum</i> (R), serpulid worms including <i>Spirobranchus</i> spp. (P) and <i>Parasmittina trispinosa</i> ? (R). <i>Asterias rubens</i> (F), <i>Echinus esculentus</i> (C).	CR.LCR.BrAs.AntAsH, SS.SMx.CMx	RF:ST	
LS_05.05	Principally bedrock stacks with small intervening patch of boulders, cobbles and pebbles on silty sand.	Rock supporting dense <i>Alcyonium digitatum</i> (A), <i>Caryophyllia smithii</i> (F) and hydroids (P). <i>Asterias rubens</i> (P), <i>Echinus esculentus</i> (C).	CR.MCR.EcCr.AdigVt	RF:BR	
LS_05.06	Boulders (15%) and cobbles (25%) on gravelly (15%) sand (30%) with pebbles (15%).	Rock supporting yellow branching sponge (R), hydroids (F) including <i>Nemertesia antennina</i> (P), <i>Alcyonium digitatum</i> (R), <i>A. glomeratum</i> (R), <i>Caryophyllia smithii</i> (C locally), <i>Sagartia elegans</i> ? (R) and encrusting pink coralline algae (R). serpulid worms including <i>Spirobranchus</i> spp. (C locally), <i>Balanus</i> spp. juveniles (P) and <i>Parasmittina trispinosa</i> (R). <i>Cerianthus lloydii</i> (F, locally C), <i>Chaetopterus variopedatus</i> (O), <i>Munida rugosa</i> (F), <i>Asterias rubens</i> (F), <i>Crossaster papposus</i> (P), <i>Marthasterias glacialis</i> (P), small patches of <i>Ophiothrix fragilis</i> (A locally), <i>Ophiocomina nigra</i> (P), <i>Ophiura albida</i> (P), <i>Echinus esculentus</i> (C), teleost sp. (P).	CR.LCR.BrAs.AntAsH, SS.SMx.CMx.CiloMx	RF:ST	
LS_06.01	Mixed sediment of silty sand (34%), gravel (33%) and pebbles (33%)	Visibility poor. Hydroid patches (F), serpulid worms (P), <i>Pecten maximus</i> (P), <i>Asterias rubens</i> (P), <i>Ophiocomina nigra</i> (O), <i>Crossaster papposus</i> (P), <i>Echinus esculentus</i> (P).	SS.SMx.CMx		
LS_06.02	Mixed sediment of silty sand (35%), gravel (25%), pebbles (35%) and cobbles (5%).	Mosaic of dense ophiuroid patches (<i>Ophiothrix fragilis</i> - S, <i>Ophiocomina nigra</i> - A) with open sediment indicative of corresponding patches of <i>Limaria hians</i> byssal turf coverage (40%). Hydroid tufts (F), <i>Cancer pagurus</i> ? (P), <i>Echinus esculentus</i> (P).	SS.SMx.CMx.OphMx, SS.SMx.IMx.Lim		FS:LH

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LS_06.03	Boulders (25%) and cobbles (20%) on gravelly (10%) sand (30%) with pebbles (15%).	Stones encrusted with pink coralline algae (O), serpulid worms (P), a red bryozoan and <i>Parasmittina trispinosa</i> (R) and supporting hydroid turf (C) including <i>Sertularia</i> sp.? (P), <i>Alcyonium digitatum</i> (R), <i>Sagartia elegans</i> ? (P) and <i>Caryophyllia smithii</i> (F locally). <i>Pecten maximus</i> (P), Crinoidea spp. (F), <i>Solaster endeca</i> (P), <i>Ophiura albida</i> (P), <i>Asterias rubens</i> (F), <i>Echinus esculentus</i> (P).	CR.LCR.BrAs.AntAsH, SS.SMx.CMx	RF:ST	
LS_06.04	Boulders (60%) and irregular, stack-like bedrock (40%).	Rock encrusted with pink coralline algae (O) and <i>Parasmittina trispinosa</i> (R) and supporting dense <i>Alcyonium digitatum</i> (C, locally A), <i>Metridium dianthus</i> (P), <i>Caryophyllia smithii</i> (F) and hydroids (O). <i>Asterias rubens</i> (F), <i>Echinus esculentus</i> (C).	CR.MCR.EcCr.AdigVt	RF:BR, RF:ST	
LS_06.05	Mixed sediment varying in composition but overall silty sand (40%) with gravel (30%), pebbles (25%), shells (3%) and cobbles (2%).	Patchy brittlestar bed with <i>Ophiocomina nigra</i> (A locally S), <i>Ophiothrix fragilis</i> (S locally) and <i>Ophiura albida</i> (locally C). Hydroid clumps (F), <i>Virgularia mirabilis</i> (R), <i>Alcyonium digitatum</i> (R), <i>Cerianthus lloydii</i> (O), <i>Metridium dianthus</i> (O), <i>Chaetopterus variopedatus</i> (P), <i>Pagurus prideaux</i> with <i>Adamsia palliata</i> (R), <i>Brachyura</i> sp. (P), <i>Pecten maximus</i> (O), <i>Aequipecten opercularis</i> (O), nudibranch egg string (P), <i>Parasmittina trispinosa</i> (R), <i>Solaster endeca</i> (P), <i>Astropecten irregularis</i> (P), <i>Echinus esculentus</i> (F), pink encrusting coralline algae (R).	SS.SMx.CMx.OphMx		
LS_06.06	Muddy sand with gravel (10%), pebbles (10%) and cobbles (<1%).	<i>Leptometra celtica</i> (C), hydroid clumps (O), <i>Metridium dianthus</i> (F), <i>Chaetopterus variopedatus</i> (P), <i>Myxicola infundibulum</i> ? (P), <i>Munida rugosa</i> (P), Paguridae sp. in <i>Turritella</i> shell (P), <i>Ophiocomina nigra</i> (O) <i>Ophiura albida</i> (P), <i>Asterias rubens</i> (P), <i>Echinus esculentus</i> (F).	SS.SMx.CMx		LA

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LS_07.01	Gravelly (19%), silty sand (40%) with pebbles (5%), cobbles (10%), boulders (25%) and small bedrock outcrops (1%).	Stones supporting hydroid turf (C), <i>Alcyonium digitatum</i> (R), <i>A. glomeratum</i> (R), <i>Swiftia pallida</i> (O), <i>Actinaria</i> sp. (P), <i>Urticina</i> sp.? (P), <i>Caryophyllia smithii</i> (F, at least locally), juvenile <i>Balanus</i> spp. (P), <i>Corella parallelograma</i> (P) and cream/yellow digitiform sponge (R). <i>Cerianthus lloydii</i> (C), <i>Sabella pavonina</i> tube? (P), <i>Munida rugosa</i> (F), <i>Brachyura</i> sp. (P), <i>Pecten maximus</i> (P), <i>Leptometra celtica</i> (C locally on mixed substrate), <i>Amphiura</i> spp. (S, at least locally), <i>Solaster endeca</i> (P), <i>Asterias rubens</i> (P), <i>Henricia</i> sp. (P), <i>Echinus esculentus</i> (C).	CR.LCR.BrAs.AntAsH, SS.SMx.CMx.CIlOmx	RF:ST	LA, NS:SP
LS_07.02	Gravelly (20%), silty sand (74%) with pebbles (5%) and cobbles (1%).	Stones support hydroids (O), <i>Alcyonium digitatum</i> (R), <i>Caryophyllia smithii</i> (R) and possibly <i>Metridium dianthus</i> (P). <i>Cerianthus lloydii</i> (C), <i>Chaetopterus variopedatus</i> (P), <i>Munida rugosa</i> (P), <i>Leptometra celtica</i> (F), <i>Asterias rubens</i> (P), <i>Solaster endeca</i> (P), <i>Echinus esculentus</i> (P).	SS.SMx.CMx.CIlOmx		LC
LS_07.03	Gravelly (15%), muddy sand (40%) with pebbles (5%), cobbles (15%) and boulders (25%).	Stones supporting hydroid turf (F), <i>Alcyonium digitatum</i> (R), <i>A. glomeratum</i> (R), <i>Swiftia pallida</i> (R), <i>Metridium dianthus</i> (F), <i>Sagartia elegans</i> ? (P), <i>Caryophyllia smithii</i> (F, at least locally), <i>Suberites carnosus</i> ? (P) and cream/yellow digitiform sponge (R). <i>Cerianthus lloydii</i> (C), <i>Munida rugosa</i> (F), <i>Paguridae</i> sp. (P), <i>Pecten maximus</i> (P), <i>Crinoidea</i> sp. (P), <i>Echinus esculentus</i> (C), teleost sp. (P). Cable present.	CR.LCR.BrAs.AntAsH, SS.SMx.CMx.CIlOmx	RF:ST	NS:SP
LS_07.04	Cohesive muddy sand or sandy mud with scattered gravel (5%), pebbles (5%) and cobbles (2%).	Sparse hydroids (R), <i>Metridium dianthus</i> (F), <i>Cerianthus lloydii</i> (O, locally F), <i>Actinaria</i> sp. (P), <i>Amphiura</i> spp. (S locally), <i>Arctica islandica</i> ? (P), cream branching sponge (R), <i>Suberites carnosus</i> (P), small solitary ascidians (P). <i>Munida rugosa</i> (O), <i>Crinoidea</i> spp. (F), <i>Asterias rubens</i> (P), <i>Echinus esculentus</i> (P), sparse small burrows.	SS.SMu.CSaMu		AI?

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LS_08	Sandy, slightly shelly mud becoming less sandy along run, with scattered boulders (<1%) and cobbles (<1%).	Megafaunal burrowers increasing along run and becoming well-burrowed in second half. Burrowers include <i>Calocaris macandreae</i> (C), <i>Nephrops norvegicus</i> (P) and <i>Goneplax rhomboides</i> (P). Stones support cream/yellow digitiform sponge (R), hydroids (R), <i>Swiftia pallida</i> (R), <i>Caryophyllia smithii</i> (R) and <i>Metridium dianthus</i> (C). <i>Funiculina quadrangularis</i> (F), <i>Cerianthus lloydii</i> (F), <i>Sabella pavonina</i> (R), <i>Munida rugosa</i> (O), Paguridae sp. (R), <i>Pagurus prideaux</i> with <i>Adamsia palliata</i> (R), <i>Arctica islandica</i> siphons? (P), <i>Amphiura</i> spp. (A), <i>Asterias rubens</i> (F), <i>Astropecten irregularis</i> (R), <i>Anceropoda placenta</i> (R), <i>Scylliorhinus canicula</i> (P), teleost spp. (O) including Pleuronectiformes spp. (R) and <i>Callionymus</i> sp. (R). <i>Leptometra celtica</i> (locally C on sediment at start of run and also present towards end on sediment and rock).	SS.SMu.CFiMu.SpnMeg. Fun		BM:SB, BM:FQ, LA, NS:SP, AI?
LS_09	Soft mud.	Well-burrowed by <i>Calocaris macandreae</i> (C), as well as <i>Nephrops norvegicus</i> (F) and supporting rich seapen fauna of <i>Funiculina quadrangularis</i> (C), <i>Pennatula phosphorea</i> (F) and <i>Virgularia mirabilis</i> (P), and rich anthozoan fauna of <i>Cerianthus lloydii</i> (C), <i>Pachycerianthus multiplicatus</i> (F) and <i>Sagartiogeton laceratus</i> (F). <i>Munida rugosa</i> (P), <i>Amphiura</i> spp. (S locally), teleost spp. (O).	SS.SMu.CFiMu.SpnMeg. Fun		BM:SB, BM:FQ, BM:PM
LS_10.01	Cohesive, slightly shelly, muddy sand or sandy mud with scattered gravel (5%), pebbles (10%) and cobbles (10%) and boulders (5%).	Stones support cream/yellow cushion sponge (R), hydroids (O), <i>Metridium dianthus</i> (C), <i>Caryophyllia smithii</i> (P), <i>Novocrania anomala</i> (C locally). <i>Cerianthus lloydii</i> (P), <i>Munida rugosa</i> (F), Brachyura spp. (O), <i>Leptometra celtica</i> on sediment and stones (C), <i>Amphiura</i> spp. (S locally), <i>Porania pulvillus</i> (P), <i>Echinus esculentus</i> (F), teleost sp. (P), <i>Callionymus</i> sp. (P), sparse, small megafaunal burrows..	CR.LCR.BrAs, SS.SMu.CSaMu	RF:ST	LA
LS_10.02	Sandy mud with scattered pebbles initially (1%).	Initially lightly burrowed but eventually (and overall) moderately well-burrowed by <i>Calocaris macandreae</i> (C) and <i>Nephrops norvegicus</i> (F, 1 animal seen). Paguridae sp. (P), <i>Arctica islandica</i> siphons? (P), <i>Leptometra celtica</i> (C locally).	SS.SMu.CFiMu.SpnMeg		BM:SB, LA, AI?

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LS_11.01	Slightly shell, sandy mud (93%) with gravel (5%) and pebbles (2%).	<i>Ophiocomina nigra</i> (C, A locally), <i>Ophiura albida</i> (P), <i>Amphiura</i> spp. (A), <i>Munida rugosa</i> (P), <i>Inachus</i> sp. (P).	SS.SMu.CSaMu		
LS_11.02	Silted bedrock stack.	Dense <i>Ophiothrix fragilis</i> (S) and <i>Metridium dianthus</i> (A) with <i>Ophiocomina nigra</i> (P).	CR.LCR.BrAs.AmenCio. Bri	RF:BR	
LS_11.03	Boulders (5%), cobbles (15%) and pebbles (10%) on shelly, sandy mud (70%).	Hydroids (O), <i>Metridium dianthus</i> (C), <i>Munida rugosa</i> (P), <i>Ophiothrix fragilis</i> (S), <i>Ophiocomina nigra</i> (P), <i>Echinus esculentus</i> , sparse, small burrows.	SS.SMx.CMx.OphMx		
LS_11.04	Silted bedrock stack.	<i>Metridium dianthus</i> (S), Ophiuroidea spp. (P - density unclear due to poor visibility but probably high).	CR.LCR.BrAs.AmenCio. Bri	RF:BR	
LS_11.05	Slightly shell, sandy mud (90%) or cohesive muddy sand with gravel (5%) and pebbles (5%).	<i>Ophiocomina nigra</i> (F), <i>Ophiothrix fragilis</i> (P), hydroids (R), <i>Metridium dianthus</i> (P), <i>Munida rugosa</i> (O), <i>Pagurus prideaux</i> with <i>Adamsia palliata</i> (O), <i>Anseropoda placenta</i> (P), <i>Leptometra celtica</i> (C), <i>Echinus esculentus</i> (P), sparse, small burrows.	SS.SMu.CSaMu		LA
LS_11.06	Cobbles (10%) and boulders (10%) on slightly shelly, sandy mud or cohesive muddy sand (805%).	Stones supporting hydroids (O), <i>Alcyonium digitatum</i> (R), <i>Metridium dianthus</i> (C), <i>Novocrania anomala</i> (P) and some patches of <i>Ophiothrix fragilis</i> (locally S) and <i>Ophiocomina nigra</i> (P). Stones and sediment with <i>Leptometra celtica</i> (C, locally A). <i>Munida rugosa</i> (F), <i>Solaster endeca</i> (P), <i>Amphiura</i> spp. (S), <i>Ophiura albida</i> (P), <i>Echinus esculentus</i> (P), Holothuroidea sp. (P), Cottidae sp. (P), sparse, small burrows.	CR.LCR.BrAs, SS.SMu.CSaMu	RF:ST	LA
LS_11.07	Slightly shell, sandy mud (90%) or cohesive muddy sand with gravel (5%) and pebbles (5%).	Hydroids (R), polychaete casts (P), Bonellidae sp. (O), <i>Munida rugosa</i> (P), Paguridae spp. (O), <i>Arctica islandica</i> siphons? (C locally), <i>Leptometra celtica</i> (C for most of run), <i>Ophiocomina nigra</i> (P), <i>Ophiura ophiura</i> (O), <i>Amphiura</i> spp. (P), teleost sp. (P), sparse, small burrows.	SS.SMu.CSaMu		LA, AI?

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LS_11.08	Sandy mud.	Moderate density of megafaunal burrows. Paguridae sp. (P), Bonellidae sp. (P), <i>Arctica islandica</i> siphons? (P).	SS.SMu.CFiMu.SpMmeg		BM:SB, AI?
LS_12.01	Sandy mud with sparse stones (<1%).	Moderate density of megafaunal burrows. <i>Munida rugosa</i> (P), Paguridae spp. (O) including <i>Pagurus prideaux</i> with <i>Adamsia palliata</i> (O), <i>Inachus</i> sp. (P), Brachyura sp. (P), <i>Arctica islandica</i> siphons? (P), <i>Leptometra celtica</i> (C locally), <i>Ophiocomina nigra</i> (P, locally A at boundary with next biotope), <i>Asterias rubens</i> (P).	SS.SMu.CFiMu.SpMmeg		BM:SB, AI?, LA
LS_12.02	Steep, silted bedrock outcrop.	Visibility very poor. <i>Metridium dianthus</i> (P), Ophiuroidea spp. (S - probably mainly <i>Ophiothrix fragilis</i>).	CR.LCR.BrAs.AmenCio.Bri	RF:BR	
LS_12.03	Boulders (50%) and bedrock (50%).	Visibility very poor. <i>Metridium dianthus</i> (P), <i>Swiftia pallida</i> (F), <i>Caryophyllia smithii</i> ? (P).	CR.MCR.EcCr.CarSwi.LgAs	RF:BR, RF:ST	NS:CS, NS:SP
LS_12.04	Sandy mud or cohesive muddy sand (99%) with scattered pebbles (1%), cobbles (<1%) and boulders (<1%).	Sparse, small burrows, hydroids (R), <i>Cerianthus lloydii</i> (P), <i>Caryophyllia smithii</i> (R), <i>Munida rugosa</i> (P), <i>Asterias rubens</i> (F), <i>Ophiocomina nigra</i> (O), teleost sp. (P).	SS.SMu.CSaMu		
LS_12.05	Sandy mud (60%) with scattered, silted cobbles (25%) and boulders (15%).	Sediment with sparse, small burrows and <i>Amphiura</i> spp. (S). Stones supporting <i>Suberites carnosus</i> ? (R), hydroids (O), <i>Alcyonium digitatum</i> (R), <i>Swiftia pallida</i> (P, single colony observed), <i>Caryophyllia smithii</i> (locally C) and possibly <i>Novocrania anomala</i> (P). Nudibranch egg string, <i>Ophiocomina nigra</i> (F, locally A), <i>Ophiothrix fragilis</i> (locally A), <i>Echinus esculentus</i> (P), teleost sp. (P).	CR.LCR.BrAs, SS.SMu.CSaMu	RF:ST	NS:SP
LS_12.06	Silted bedrock (30%) and boulders (35%) and cobbles (20%) on sandy mud (15%).	Hydroids (O, locally C on boulders), <i>Alcyonium digitatum</i> (R, locally O), <i>Swiftia pallida</i> (O, locally F), <i>Caryophyllia smithii</i> (F), <i>Munida rugosa</i> (P), <i>Asterias rubens</i> (F), <i>Ophiothrix fragilis</i> (locally A), <i>Ophiocomina nigra</i> (locally C), <i>Echinus esculentus</i> (F).	CR.MCR.EcCr.CarSwi.LgAs	RF:BR, RF:ST	NS:CS, NS:SP

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LS_13.01	Sandy mud (85%) with shell gravel (10%) and pebbles (5%).	Mud with very sparse small burrows. Hydroid tufts (O), <i>Cerianthus lloydii</i> (P), <i>Sabella pavonina</i> tubes (O), Bonellidae sp. (P), short emergent infaunal tubes (P), <i>Pagurus prideaux</i> with <i>Adamsia palliata</i> (O), <i>Asterias rubens</i> (P), <i>Ophiothrix fragilis</i> (F), <i>Ophiocomina nigra</i> (F), <i>Ophiura ophiura</i> (O), <i>Amphiura</i> spp. (P), teleost spp. (O).	SS.SMu.CSaMu		
LS_13.02	Slightly shelly, sandy mud with sparse boulders (<1%).	Mud with moderate density of burrows including <i>Calocaris macandreae</i> (C) and <i>Nephrops norvegicus</i> (F, 1 animal seen). <i>Alcyonium digitatum</i> (R), <i>Metridium dianthus</i> (F), <i>Sagartiogeton laceratus?</i> (R), <i>Pachycerianthus multiplicatus</i> (P), <i>Myxicola infundibulum?</i> (P), Bonellidae sp. (O), <i>Munida rugosa</i> (O), <i>Pagurus prideaux</i> with <i>Adamsia palliata</i> (O), <i>Arctica islandica</i> siphons (C locally over extensive area), <i>Asterias rubens</i> (F), <i>Ophiura ophiura</i> (O), <i>Amphiura</i> spp. (P), <i>Echinus esculentus</i> (P), <i>Scyliorhinus canicula</i> (P), teleost spp. (O).	SS.SMu.CFiMu.SpnMeg		BM:SB, BM:PM, AI
LS_14.01	Mud with sparse cobbles (<1%).	Moderate density of fairly small megafaunal burrowers. <i>Leptometra celtica</i> (C), <i>Amphiura</i> spp. (S, at least at boundary with following biotope).	SS.SMu.CFiMu.SpnMeg		BM:SB, LA
LS_14.02	Mosaic of small bedrock outcrops (5%), cobbles (15%) and boulders (30%) with shelly sandy mud.	Rock supports dense <i>Ophiothrix fragilis</i> (S), <i>Alcyonium digitatum</i> (R), <i>Caryophyllia smithii</i> (F), <i>Suberites carnosus?</i> (R) and <i>Novocrania anomala</i> (C). <i>Leptometra celtica</i> on rock and sediment (C). <i>Munida rugosa</i> (F), Paguridae sp. (P), <i>Crossaster papposus</i> (P). Sediment with sparse megafaunal burrows.	CR.LCR.BrAs.AmenCio. Bri, SS.SMu.CSaMu	RF:ST	LA
LS_14.03	Mud.	Moderate density of fairly small megafaunal burrowers. Paguridae spp. (O), <i>Ophiothrix fragilis</i> (F), <i>Ophiura ophiura</i> (F), <i>Leptometra celtica</i> (F), teleost sp. (P).	SS.SMu.CFiMu.SpnMeg		BM:SB, LC
LS_14.04	Shelly, sandy mud with scattered gravel (3%) and pebbles (3%).	Sparse megafaunal burrows. <i>Buccinum undatum?</i> (P), <i>Ophiothrix fragilis</i> (F), <i>Ophiocomina nigra</i> (O), <i>Ophiura ophiura</i> (O), <i>Leptometra celtica</i> (F), <i>Solaster endeca</i> (P) <i>Raja clavata</i> (P).	SS.SMu.CSaMu		LC

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LS_14.05	Mud.	Moderate density of mostly small megafaunal burrowers but <i>Nephrops norvegicus</i> burrows also present (F). <i>Metridium dianthus</i> (P), <i>Pagurus prideaux</i> with <i>Adamsia palliata</i> (O), <i>Arctica islandica</i> (P, one pair of siphons seen), <i>Ophiocomina nigra</i> (F), <i>Ophiura ophiura</i> (F), <i>Leptometra celtica</i> (C), <i>Anseropoda placenta</i> (P), <i>Astropecten irregularis?</i> (O).	SS.SMu.CFiMu.Spnmeg		BM:SB, LA, AI
LS_14.06	Silted flat bedrock (70%) with boulders (5%) and patches of slightly shelly sandy mud.	Rock supports dense <i>Ophiothrix fragilis</i> (S), <i>Alcyonium digitatum</i> (R), <i>Caryophyllia smithii</i> (P), <i>Metridium dianthus</i> (C) and <i>Novocrania anomala</i> (P). <i>Leptometra celtica</i> on rock and sediment (F). <i>Munida rugosa</i> (F), <i>Ophiura</i> sp. (C locally), <i>Asterias rubens?</i> (P). Sediment with sparse megafaunal burrows.	CR.LCR.BrAs.AmenCio. Bri, SS.SMu.CSaMu	RF:BR	LC
LS_15	Soft mud.	Well-burrowed mud with burrowers including <i>Calocaris macandreae</i> (C) and <i>Nephrops norvegicus</i> (C, 4 animals seen). <i>Pachycerianthus multiplicatus</i> (P, 1 seen), <i>Sagartiogeton laceratus?</i> (F), <i>Cerianthus lloydii</i> (O), Anthozoa sp. (O), <i>Funiculina quadrangularis</i> (F), <i>Pennatula phosphorea</i> (P), <i>Sabella pavonina</i> (P), Paguridae spp. (O), <i>Pecten maximus</i> (R), Crinoidea spp. (F) including <i>Leptometra celtica</i> (P), <i>Amphiura</i> spp. (S locally), <i>Asterias rubens</i> (F), teleost spp. (O).	SS.SMu.CFiMu.Spnmeg. Fun		BM:SB, BM:FQ, BM:PM, LC
LS_16.01	Sandy mud or cohesive muddy sand (85%) with shell gravel (10%) and pebbles (5%).	Mud with very sparse small burrows, increasing in transitional area at end of run. Hydroid tufts (O), <i>Paguridae</i> sp. (P), <i>Anseropoda placenta</i> (O), <i>Ophiura ophiura</i> (F), <i>Amphiura</i> spp. (P), <i>Echinus esculentus</i> (P), <i>Callionymus</i> sp. (P).	SS.SMu.CSaMu		
LS_16.02	Silted bedrock slope.	<i>Alcyonium glomeratum</i> (R), <i>Ophiocomina nigra</i> (locally A), <i>Swiftia pallida</i> (P), <i>Echinus esculentus</i> (F).	CR.MCR.EcCr.CarSwi.L gAs	RF:BR	NS:CS, NS:SP
LS_16.03	Silted boulders (35%), cobbles (20%) and pebbles (5%) on shelly, sandy mud (40%).	Rock with cream digitiform sponge (R), hydroids (F), <i>Alcyonium digitatum</i> (R), <i>Swiftia pallida</i> (F), <i>Caryophyllia smithii</i> (F locally), <i>Serpula vermicularis</i> (P), <i>Calliostoma zizyphinum</i> (P) and <i>Novocrania anomala</i> (P). Short emergent infaunal tubes (P), <i>Cancer pagurus</i> (P), Crinoidea spp. (O), <i>Asterias rubens</i> (F), <i>Amphiura</i> spp. (A), <i>Echinus esculentus</i> (C), sparse small burrows.	CR.MCR.EcCr.CarSwi.L gAs, SS.SMu.CSaMu	RF:ST	NS:CS, NS:SP

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LS_16.04	Silted bedrock (95%) and boulders (5%).	Rock with cream digitiform sponge (R), hydroids (O), <i>Swiftia pallida</i> (F), <i>Caryophyllia smithii</i> (C). <i>Asterias rubens</i> (P), <i>Diazona violacea</i> (P).	CR.MCR.EcCr.CarSwi.L gAs	RF:BR	NS:CS, NS:SP
LS_16.05	Pebbles (15%) and cobbles (5%) on shelly, sandy mud (80%).	Stones with hydroid tufts (O) including <i>Nemertesia ramosa</i> (P). Sparse burrows, <i>Cerianthus lloydii</i> (O), <i>Munida rugosa</i> (O), <i>Pagurus prideaux</i> with <i>Adamsia palliata</i> (P), <i>Inachus</i> sp. (P), Crinoidea sp. (P), <i>Asterias rubens</i> (P), <i>Stichastrella rosea?</i> (P), <i>Ophiocomina nigra</i> (C), <i>Ophiura ophiura</i> (P), <i>Amphiura</i> spp. (A), <i>Echinus esculentus</i> (F).	SS.SMu.CSaMu		
LS_16.06	Silted bedrock outcrops (10%), boulders (45%) and cobbles (5%) on shelly, sandy mud (40%).	Rock with cream digitiform sponge (R), hydroids (O, locally C), <i>Alcyonium glomeratum</i> (R), <i>Swiftia pallida</i> (F), <i>Caryophyllia smithii</i> (F, locally C), <i>Protanthea simplex?</i> (P), <i>Sabella pavonina</i> tubes (P), and <i>Novocrania anomala</i> (P). <i>Munida rugosa</i> (O), Crinoidea sp. (P), <i>Asterias rubens</i> (F), <i>Ophiocomina nigra</i> (P), <i>Echinus esculentus</i> (C), <i>Labrus mixtus</i> (P).	CR.MCR.EcCr.CarSwi.L gAs, SS.SMu.CSaMu	RF:BR, RF:ST	NS:CS, NS:SP
LS_16.07	Slightly shelly sandy mud or cohesive muddy sand with sparsely scattered pebbles (5%).	<i>Ophiocomina nigra</i> (A, locally S), <i>Cerianthus lloydii</i> (P), Paguridae sp. (P), Crinoidea sp. (P), sparse burrows.	SS.SMx.CMx.OphMx		
LS_17	Silted boulders (10%) and cobbles (10%) with pebbles (5%) on shelly sandy mud or muddy sand (75%).	Dense ophiuroid bed dominated by <i>Ophiothrix fragilis</i> (S) with <i>Ophiocomina nigra</i> (C locally) and <i>Ophiura albida</i> (P) on mixed substrata. Hydroids (P), <i>Alcyonium digitatum</i> (R), <i>Caryophyllia smithii</i> (P), <i>Munida rugosa</i> (P), <i>Pecten maximus</i> (P), <i>Asterias rubens</i> (F), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (F), <i>Ascidia mentula?</i> (P), sparse small burrows, encrusting pink coralline algae (R).	CR.LCR.BrAs.AmenCio. Bri	RF:ST	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LS_18.01	Muddy sand with shell gravel (5%) and scattered shells (<1%).	Bonellidae sp. (O), Paguridae spp. (F) including <i>Pagurus prideaux</i> with <i>Adamsia palliata</i> (F) and <i>P. bernhardus</i> (P), <i>Inachus</i> sp. (P), <i>Pecten maximus</i> (P), <i>Ophiocomina nigra</i> (F), <i>Ophiura ophiura</i> (O), <i>Leptometra celtica</i> (O), <i>Henricia</i> sp. (P), <i>Anseropoda placenta</i> (P), <i>Scyliorhinus</i> sp. (P), teleost spp. (O).	SS.SSa.CMuSa		LC
LS_18.02	Mixed substrate of muddy sand (40%) with shell gravel (15%), stone gravel (5%), pebbles (10%) and cobbles (30%).	Stones supporting sparse epibiota of hydroids (O) and <i>Alcyonium digitatum</i> (R). Fauna strongly dominated by echinoderms with <i>Ophiocomina nigra</i> (C), <i>Ophiothrix fragilis</i> (A), <i>Ophiura albida</i> ? (C locally), <i>Leptometra celtica</i> (C locally), <i>Crossaster papposus</i> (P), <i>Solaster endeca</i> (P) and <i>Echinus esculentus</i> (F). <i>Munida rugosa</i> (O), Paguridae spp. (O) including <i>Pagurus prideaux</i> with <i>Adamsia palliata</i> (O), <i>Pecten maximus</i> (O), <i>Aequipecten opercularis</i> (P).	SS.SMx.CMx		LA
LS_19.01	Mixed sediment of muddy sand (60%) with shell gravel (25%), pebbles (10%) and shells (5%, initially much denser).	Hydroid clumps (F) including <i>Nemertesia antennina</i> (P), <i>Suberites carnosus</i> ? (R), <i>Alcyonium digitatum</i> (R), Paguridae spp. (O) including <i>Pagurus prideaux</i> with <i>Adamsia palliata</i> (O), <i>Inachus</i> sp. (P), <i>Ophiocomina nigra</i> (C), <i>Ophiothrix fragilis</i> (F, locally S), <i>Ophiura ophiura</i> (P), <i>Ophiura albida</i> (C locally).	SS.SMx.CMx		
LS_19.02	Mixed substrate of muddy sand (50%) with shell gravel (20%), pebbles (10%) and cobbles (20%).	Stones with hydroids (C), orange digitiform sponge (R), <i>Alcyonium digitatum</i> (R), serpulid worms including <i>Serpula vermicularis</i> (P), and <i>Alcyonidium diaphanum</i> (R). <i>Cerianthus lloydii</i> (P), <i>Munida rugosa</i> (F), <i>Pagurus prideaux</i> with <i>Adamsia palliata</i> (O), <i>Pecten maximus</i> (P), <i>Ophiocomina nigra</i> (C), <i>Ophiothrix fragilis</i> (C, locally S), <i>Ophiura albida</i> (C locally), <i>Asterias rubens</i> (P), <i>Echinus esculentus</i> (F), teleost sp. (P).	SS.SMx.CMx, CR.LCR	RF:ST	
LS_20.01	Mixed sediment of muddy sand with gravel (10%) and pebbles (20%).	<i>Ophiothrix fragilis</i> (C, widely A), <i>Ophiocomina nigra</i> (C), <i>Leptometra celtica</i> (C), <i>Metridium dianthus</i> (F), <i>Liocarcinus</i> sp.? (P), <i>Asterias rubens</i> (F).	SS.SMx.CMx		LA

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LS_20.02	Sandy mud.	Lightly burrowed with burrowers including <i>Calocaris macandreae</i> (P). Terebellidae sp. (P), <i>Munida rugosa</i> (P), Paguridae spp. (O) including <i>Pagurus prideaux</i> with <i>Adamsia palliata</i> (O), <i>Ophiothrix fragilis</i> (C), <i>Ophiocomina nigra</i> (C), <i>Leptometra celtica</i> (C, locally A), <i>Amphiura</i> spp. (P), <i>Asterias rubens</i> (P).	SS.SMu.CFiMu.SpnMeg		BM:SB, LA
LS_20.03	Silted boulders (50%) on sandy mud (50%).	Boulders supporting dense <i>Ophiothrix fragilis</i> (S) and <i>Ophiocomina nigra</i> (P). <i>Munida rugosa</i> (P), <i>Leptometra celtica</i> (C). Mud with sparse small burrows.	CR.LCR.BrAs.AmenCio. Bri, SS.SMu.CSaMu	RF:ST	LA
LS_20.04	Silted bedrock (50%) and boulders (50%).	Boulders supporting dense <i>Ophiothrix fragilis</i> (S) and <i>Ophiocomina nigra</i> (P), as well as <i>Metridium dianthus</i> (A), <i>Caryophyllia smithii</i> (P), <i>Swiftia pallida</i> (P) and yellow cushion sponge (R). <i>Munida rugosa</i> (F), <i>Leptometra celtica</i> (F, locally C).	CR.LCR.BrAs.AmenCio. Bri	RF:BR, RF:ST	LA, NS:SP
LS_20.05	Mud with scattered pebbles (5%).	<i>Munida rugosa</i> (P), <i>Leptometra celtica</i> (C), <i>Ophiocomina nigra</i> (P), <i>Ophiothrix fragilis</i> (P). Mud with moderate density of mostly small burrows.	SS.SMu.CFiMu.SpnMeg		BM:SB, LA
LS_20.06	Silted bedrock (40%) and boulders (40%) on sandy mud.	Rock supporting dense <i>Ophiothrix fragilis</i> (S) and <i>Ophiocomina nigra</i> (P). <i>Munida rugosa</i> (P), <i>Leptometra celtica</i> (locally C). Mud with <i>Cerianthus lloydii</i> (P) and sparse small burrows.	CR.LCR.BrAs.AmenCio. Bri, SS.SMu.CSaMu	RF:BR, RF:ST	LA
LS_20.07	Silted bedrock outcrops (30%) and boulders (30) and cobbles (20%) on sandy mud (20%).	Rock supports <i>Ophiothrix fragilis</i> (overall sparse but locally A), <i>Ophiocomina nigra</i> (P), cream digitiform sponge (R), hydroids (O), <i>Swiftia pallida</i> (O) and <i>Metridium dianthus</i> (A). <i>Munida rugosa</i> (F), <i>Leptometra celtica</i> (C), <i>Echinus esculentus</i> (P). Mud with <i>Cerianthus lloydii</i> (P) and sparse, small burrows.	CR.LCR, SS.SMu.CSaMu	RF:BR, RF:ST	LA, NS:SP
LS_20.08	Silted bedrock.	Rock supports hydroids (F), <i>Alcyonium glomeratum</i> (R), <i>Swiftia pallida</i> (F) and <i>Caryophyllia smithii</i> (F).	CR.MCR.EcCr.CarSwi.L gAs	RF:BR	NS:CS, NS:SP
LS_20.09	Silted bedrock outcrops (20%) and boulders (30) and cobbles (20%) on sandy mud (30%).	Rock supports cream/yellow digitiform sponge (R), hydroids (O, locally F), <i>Alcyonium glomeratum</i> (R), <i>Caryophyllia smithii</i> (F) and <i>Metridium dianthus</i> (F). <i>Munida rugosa</i> (O), <i>Leptometra celtica</i> (C), <i>Asterias rubens?</i> (P), <i>Echinus esculentus</i> (F). Mud with <i>Cerianthus lloydii</i> (P) and sparse, small burrows.	CR.LCR, SS.SMu.CSaMu	RF:BR, RF:ST	LA

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LS_20.10	Sandy mud with scattered shell gravel (5%).	Moderate density of megafaunal burrowers including <i>Calocaris macandreae</i> (C) and <i>Nephrops norvegicus</i> (F, 3 animals seen). Anthozoa sp. (P), <i>Munida rugosa</i> (O), Caridea sp. (P), <i>Pagurus prideaux</i> with <i>Adamsia palliata</i> (P), <i>Ophiocomina nigra</i> (P), <i>Ophiura ophiura</i> (O), <i>Amphiura</i> spp. (A), <i>Leptometra celtica</i> (F, locally C), <i>Crossaster papposus</i> (P), <i>Scyliorhinus</i> sp.? (P), teleost sp. (P), short emergent infaunal tubes (P).	SS.SMu.CFiMu.SpnMeg		BM:SB, LA
LS_20.11	Seabed not visible.	Seabed not visible.	Unknown		
LS_20.12	Silted bedrock.	Rock supports hydroids (O), <i>Caryophyllia smithii</i> (C), <i>Sabella pavonina</i> (C locally), <i>Novocrania anomala</i> ? (C) and <i>Leptometra celtica</i> (F).	CR.LCR.BrAs	RF:BR	LC
LS_20.13	Sandy mud (93%) with sparse shell gravel (5%), cobbles (2%) and pebbles (<1%).	Sparse burrows. <i>Munida rugosa</i> (P), <i>Leptometra celtica</i> (C), <i>Asterias rubens</i> (P).	SS.SMu.CSaMu		LA
FMA01_01.01	Silted boulders (25%) on sandy mud (75%).	Boulders with patchy hydroid turf (C), <i>Caryophyllia smithii</i> (C locally) and <i>Novocrania anomala</i> ? (P). <i>Munida</i> sp. (P), <i>Leptometra celtica</i> (C). Sediment with moderate density of megafaunal burrows.	SS.SMu.CFiMu.SpnMeg, CR.LCR	RF:ST	BM:SB, LA
FMA01_01.02	Soft mud.	Fairly well-burrowed mud with <i>Calocaris macandreae</i> (C) and <i>Nephrops norvegicus</i> (C, 20 animals seen). <i>Alcyonium digitatum</i> (R), teleost sp. (P). Field of <i>Leptometra celtica</i> (where C) on mud initially. Lost creel.	SS.SMu.CFiMu.SpnMeg		BM:SB, LA
FMA01_02	Soft mud.	Well-burrowed mud by <i>Calocaris macandreae</i> (C) and <i>Nephrops norvegicus</i> (C, 9 animals seen). <i>Funiculina quadrangularis</i> (F), <i>Sabella pavonina</i> tubes? (O), <i>Alcyonium digitatum</i> (R), <i>Cerianthus lloydii</i> (O), <i>Metridium dianthus</i> (P), Crinoidea sp. (R), teleost spp. (O).	SS.SMu.CFiMu.SpnMeg. Fun		BM:SB, BM:FQ

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA01_03.01	Silted bedrock (50%) including cliffs, boulders (15%) and cobbles (15%) on mainly gravelly (5%) muddy sand (15%).	Rock supporting sparse <i>Axinella infundibuliformis</i> / <i>Phakellia ventilabrum</i> (R), <i>Caryophyllia smithii</i> (F, locally A), <i>Alcyonium digitatum</i> (F, A in large patches), <i>Swiftia pallida</i> (F, locally C), hydroid patches (F, locally C) including <i>Nemertesia ramosa</i> , <i>Porella compressa</i> (P) and <i>Diazona violacea</i> (F). Crinoidea sp. (R), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (O).	CR.MCR.EcCr.CarSwi.LgAs	RF:ST, RF:BR	NS:CS, NS:SP
FMA01_03.02	Gravelly (25%) muddy sand.	Sparse hydroids (R), <i>Swiftia pallida</i> (R), <i>Alcyonium digitatum</i> (O) and <i>Caryophyllia smithii</i> (R). Single small burrow.	SS.SMu.OMu		NS:SP
FMA01_03.03	Silted bedrock (50%) including cliff, boulders (5%) and cobbles (25%) on mainly gravelly (5%) muddy sand (15%) but with mud pockets (<1%).	Rock supporting <i>Axinella infundibuliformis</i> (locally C) and probably <i>Phakellia ventilabrum</i> (P), <i>Polymastia boletiformis</i> (O), <i>Haliclona urceolus?</i> (R), <i>lophon nigricans?</i> (R), <i>Caryophyllia smithii</i> (C), <i>Alcyonium digitatum</i> (F, locally S), <i>A. glomeratum</i> (R), <i>Swiftia pallida</i> (F), hydroid patches (F), <i>Porella compressa</i> (P), <i>Parasmittina trispinosa</i> (R), <i>Securiflustra securifrons</i> (R) and <i>Diazona violacea</i> (P). <i>Asterias rubens</i> (P), <i>Porania pulvillus?</i> (P), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (F). Mud with small megafaunal burrows.	CR.HCR.XFa.SwiLgAs	RF:ST, RF:BR	NS:MT, NS:SP
FMA01_04.01	Mud.	Poor visibility. Fairly low density of small megafaunal burrows. <i>Luidia ciliaris</i> (P).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA01_04.02	Silted bedrock.	Rock support hydroid turf (C) mostly short but including <i>Nemertesia ramosa</i> (P), <i>Caryophyllia smithii</i> (F) and <i>Alcyonium digitatum</i> (R). <i>Swiftia pallida?</i> (R-O).	CR.HCR.XFa	RF:BR	NS:SP
FMA01_04.03	Mud.	Fairly low density of small megafaunal burrows and probably small <i>Nephrops norvegicus</i> burrows (C). <i>Cerianthus lloydii</i> (F), <i>Caryophyllia smithii</i> (F), <i>Sabella pavanina</i> tubes? (P), Paguridae spp. (F), <i>Turritella communis</i> shells (P).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA01_04.04	Sandy mud with scattered gravel (5%) and cobbles (2%).	Sediment with very sparse small megafaunal burrows, <i>Pennatula phosphorea</i> (R), <i>Amphiura</i> spp. (A) and emergent infaunal tubes (P). <i>Suberites</i> sp.? (R), hydroid tufts (O) including <i>Nemertesia ramosa</i> , <i>Alcyonium digitatum</i> (R), <i>Caryophyllia smithii</i> (F, locally C), <i>Munida rugosa</i> (O), Paguridae spp. (O), <i>Buccinum undatum</i> (R), <i>Alcyonidium diaphanum</i> (F), <i>Henricia</i> sp. (R).	SS.SMu.OMu		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA01_05	Mud, sandy locally, with scattered cobbles (5%) and boulders (2%).	Sediment fairly lightly burrowed with burrowers including <i>Nephtrops norvegicus</i> (F, 1 animal seen); burrows diminish in stonier areas. Hydroid patches (O), Pennatulacea sp. (P) Sagartiidae sp. (F, locally C), <i>Cerianthus lloydii</i> (O), <i>Sabella pavonina</i> (O), fine, emergent polychaete? tubes (locally A), Caridea sp. (O), <i>Munida</i> spp. (O), Paguridae spp. (O), <i>Pecten maximus</i> ? (P), <i>Amphiura</i> spp. (S locally), <i>Luidia ciliaris</i> (P), <i>Henricia</i> sp. (O), <i>Echinus esculentus</i> (P), teleost spp. (O), Pleuronectidae sp. (O). Stones support hydroid turf (where A) including <i>Halecium halecinum</i> ? (P), <i>Alcyonium digitatum</i> (R), <i>Caryophyllia smithii</i> (F locally), <i>Metridium dianthus</i> (F), <i>Calliostoma zizyphinum</i> ? (P), <i>Alcyonidium diaphanum</i> (R), <i>Swiftia pallida</i> (O).	SS.SMu.CFiMu.SpnMeg, CR.HCR.XFa		BM:SB, NS:SP
FMA01_06.01	Soft mud.	Fairly densely burrowed mud with <i>Calocaris macandreae</i> (C), <i>Nephtrops norvegicus</i> (C, 3 animals seen) and occasional c.20 cm diameter mounds. <i>Cerianthus lloydii</i> (O), clumps of <i>Sabella pavonina</i> (F), Paguridae spp. (O), <i>Luidia ciliaris</i> (P), teleost sp. (P).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA01_06.02	Gravelly (10%) muddy sand.	Sparse small burrows, emergent infaunal tubes (P) and <i>Pennatula phosphorea</i> (O). Hydroids (O), <i>Cerianthus lloydii</i> (F), <i>Caryophyllia smithii</i> (O), Sagartiidae sp. (P), <i>Sabella pavonina</i> (O), <i>Munida rugosa</i> (O), Paguridae spp. (F), <i>Buccinum undatum</i> ? (P), <i>Alcyonidium diaphanum</i> ? (P), <i>Amphiura</i> spp. (S), <i>Luidia ciliaris</i> (P).	SS.SMu.OMu		
FMA01_06.03	Gravelly (5%) muddy sand (60%) with silted bedrock outcrops (20%) and scattered cobbles (10%) and boulders (5%).	Rock with faunal turf (C, locally S) of hydroids including <i>Tubularia indivisa</i> , as well as <i>Caryophyllia smithii</i> (F locally), <i>Alcyonium digitatum</i> (R), <i>Metridium dianthus</i> (R), <i>Salmacina dysteri</i> / <i>Filograna implexa</i> (R) and <i>Sabella pavonina</i> (P). <i>Axinella infundibuliformis</i> (R), branching erect sponge (R), <i>Swiftia pallida</i> ? (R), <i>Munida rugosa</i> (O), Paguridae spp. (P), <i>Ophiura albida</i> (P), <i>Ophiocomina nigra</i> (P). Sediment with sparse small burrows, <i>Pennatula phosphorea</i> (P), Sagartiidae sp. (P), <i>Cerianthus lloydii</i> (F), <i>Amphiura</i> spp. (A).	SS.SMuOMu, CR.HCR.XFa	RF:ST, RF:BR	NS:SP
FMA01_07.01	Mud.	Moderately well-burrowed mud with <i>Nephtrops norvegicus</i> (C, 3 animals seen) and possibly <i>Calocaris macandreae</i> (P). <i>Sabella pavonina</i> ? (P), <i>Munida</i> sp. (P), <i>Luidia ciliaris</i> (P).	SS.SMu.CFiMu.SpnMeg		BM:SB

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA01_07.02	Silted bedrock including areas with mud veneer completely obscuring rock (60%), boulders (5%), deeper mud patches (35%).	Rock supporting <i>Axinella infundibuliformis</i> / <i>Phakellia ventilabrum</i> (R), <i>Polymastia boletiformis</i> (R), hydroid turf (C) including <i>Halecium halecinum</i> ? (P), <i>Caryophyllia smithii</i> (F, locally C), Sagartiidae sp. (C), <i>Metridium dianthus</i> (P), <i>Swiftia pallida</i> (C). Mud with megafaunal burrows. <i>Munida</i> sp. (P), <i>Inachus</i> sp. (P), <i>Luidia ciliaris</i> (P), teleost sp. (P).	CR.HCR.XFa.SwiLgAs, SS.SMu.CFiMu.SpnMeg	RF:BR	BM:SB, NS:MT, NS:SP
FMA01_07.03	Mud.	Moderately well-burrowed mud with <i>Nephrops norvegicus</i> (C, 3 animals seen) and <i>Calocaris macandreae</i> (F), small Pennatulacea sp. (P) and emergent tubes (P). Sagartiidae sp. (O, locally F), <i>Sabella pavonina</i> (O), <i>Macropodia</i> sp.? (R).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA01_07.04	Probably thin veneer of mud on bedrock with sparse boulders (<1%).	Dense Sagartiidae sp. (C, locally A) with patchy hydroids (O), <i>Alcyonium digitatum</i> (R). Caridea sp. (O).	CR.LCR	RF:BR	
FMA01_07.05	Mud with sparse boulders (<1%).	Moderately well-burrowed mud with <i>Nephrops norvegicus</i> (C, 6 animals seen) and <i>Calocaris macandreae</i> (P). Sagartiidae sp. (O), <i>Sabella pavonina</i> (O), <i>Inachus</i> sp. (P). Boulders with hydroid turf (where S) and <i>Alcyonium digitatum</i> (R). Caridea sp. (P), <i>Munida</i> spp. (O), teleost sp. (P).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA01_08	Cohesive muddy sand with sparse, silted cobbles (<1%), boulders (<1%) and bedrock (<1%).	Moderate density of small, megafaunal burrows (though locally sparse) including those of <i>Calocaris macandreae</i> (P) and possibly sparse <i>Nephrops norvegicus</i> (P), and emergent infaunal tubes (P). Hydroids (O), Sagartiidae sp. (F, locally C), <i>Cerianthus lloydii</i> (R), <i>Sabella pavonina</i> (O), Paguridae sp. (F), <i>Pagurus bernhardus</i> (R), <i>Inachus</i> sp. (O), <i>Hyas</i> sp. (R), <i>Buccinum undatum</i> (O), <i>Ophiocomina nigra</i> (F locally), <i>Henricia</i> sp. (P), <i>Luidia ciliaris</i> (O), teleost sp. (P). Rock with hydroids (locally C), <i>Swiftia pallida</i> (R), <i>Alcyonium digitatum</i> (locally A), <i>Caryophyllia smithii</i> (locally C), <i>Metridium dianthus</i> (P).	SS.SMu.OMu		NS:SP

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA01_09.01	Muddy sand (35%) with silted cobbles (20%), boulders (5%) and bedrock outcrops (40%).	Rock supporting <i>Axinella infundibuliformis</i> (O), <i>Iophon nigricans?</i> (R), patchy hydroid turf (F, locally A), <i>Swiftia pallida</i> (F, locally C), <i>Caryophyllia smithii</i> (C locally), <i>Metridium dianthus</i> (O), Anthozoa spp. (O), <i>Alcyonium digitatum</i> (R), <i>Sabella pavonina</i> tubes (O), <i>Salmacina dysteri</i> / <i>Filograna implexa</i> (R), <i>Novocrania anomala?</i> (P). <i>Cerianthus lloydii</i> (O), <i>Munida</i> spp. (O), Paguridae sp. (P), <i>Atelecycclus rotundatus</i> (P), <i>Echinus esculentus</i> (F).	CR.HCR.XFa.SwiLgAs, SS.SMu.OMu	RF:ST, RF:BR	NS:MT, NS:SP
FMA01_09.02	Muddy sand (25%) with silted cobbles (20%), boulders (20%) and bedrock outcrops (35%).	Rock supporting dense, patchy bed of <i>Ophiothrix fragilis</i> (S), as well as <i>Alcyonium digitatum</i> (F), small patch of <i>Swiftia pallida</i> (O, but generally absent), Anthozoa spp. (P), <i>Sabella pavonina</i> (P), <i>Novocrania anomala?</i> (P). <i>Munida</i> spp. (O), Crinoidea spp. (O), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (F).	CR.LCR.BrAs.AmenCio. Bri	RF:ST, RF:BR	NS:SP
FMA01_09.03	Muddy sand (25%) with silted cobbles (30%), boulders (25%) and bedrock outcrops (20%).	Rock supports dense <i>Alcyonium digitatum</i> (C) and hydroids (O). <i>Munida</i> spp. (F), <i>Ophiothrix fragilis</i> (O, locally S), <i>Echinus esculentus</i> (C).	CR.MCR.EcCr.FaAlCr.A dig, SS.SMu.OMu	RF:ST, RF:BR	
FMA01_10	Cohesive muddy sand.	Overall low density of megafaunal burrows including <i>Nephrops norvegicus</i> (O, 2 animals seen) and probably <i>Calocaris macandreae</i> (O, locally C but N for much of run). Scattered hydroids (O, locally F initially) including <i>Halecium halecinum?</i> (P), <i>Caryophyllia smithii</i> (F towards end of run), <i>Alcyonium digitatum</i> (R), <i>Cerianthus lloydii</i> (O), Anthozoa spp. (P), <i>Sabella pavonina</i> (O), small Pennatulacea spp. (O) including <i>Pennatula phosphorea</i> (R) and possibly <i>Funiculina quadrangularis</i> , <i>Alcyonidium diaphanum</i> (R). <i>Munida</i> spp. (O), Paguridae sp. (R), <i>Pagurus bernhardus</i> (R), <i>Pecten maximus</i> (O), field of <i>Leptometra celtica</i> (C towards end of run).	SS.SMu.OMu		BM:FQ?, LA

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA01_11.01	Cohesive muddy sand (50%) with silted cobbles (20%), boulders (10%) and flat bedrock outcrops (20%).	Rock supporting <i>Axinella infundibuliformis</i> (O, locally F), <i>Iophon nigricans?</i> (R), hydroid turf (A), <i>Swiftia pallida</i> (F, locally C), <i>Caryophyllia smithii</i> (F, locally A), <i>Metridium dianthus</i> (P), Sagartiidae sp. (F), <i>Sabella pavonina</i> tubes (O), <i>Salmacina dysteri</i> / <i>Filograna implexa</i> (R), <i>Alcyonidium diaphanum</i> (R). <i>Cerianthus lloydii</i> (F), <i>Munida</i> spp. (O), Paguridae spp. (O), <i>Buccinum undatum</i> (P), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (F). Sediment with sparse burrows.	CR.HCR.XFa.SwiLgAs, SS.SMu.OMu	RF:ST, RF:BR	NS:MT, NS:SP
FMA01_11.02	Cohesive muddy sand with sparsely scattered cobbles (<1%).	Sediment with sparse, small megafaunal burrows, Sagartiidae sp. (F), <i>Cerianthus lloydii</i> (O) and hydroid tufts (F). <i>Sabella pavonina</i> (F), <i>Alcyonium digitatum?</i> (R), <i>Munida</i> sp. (P), Paguridae spp. (O), <i>Pecten maximus</i> (P), <i>Alcyonidium diaphanum</i> (R), <i>Luidia ciliaris</i> (F).	SS.SMu.OMu		
FMA01_11.03	Cohesive muddy sand (45%) with silted cobbles (15%) and boulders (40%).	Rock supporting hydroid turf (A), <i>Swiftia pallida</i> (F, locally C), <i>Alcyonium digitatum</i> (R), <i>Caryophyllia smithii</i> (F), <i>Metridium dianthus</i> (P, single patch), Sagartiidae sp. (F), <i>Salmacina dysteri</i> / <i>Filograna implexa</i> (R), <i>Alcyonidium diaphanum</i> (R). <i>Cerianthus lloydii</i> (O), <i>Inachus</i> sp. (P), <i>Porania pulvillus</i> (P), <i>Echinus esculentus</i> (P). Sediment with sparse, small burrows.	CR.HCR.XFa.SwiLgAs, SS.SMu.OMu	RF:ST	NS:MT, NS:SP
FMA01_12	Soft mud.	Sediment well-burrowed by <i>Calocaris macandreae</i> (C) and <i>Nephrops norvegicus</i> (F, 17 animals seen) and supporting <i>Virgularia mirabilis</i> (R), <i>Pennatula phosphorea</i> (R), <i>Cerianthus lloydii</i> (R), Sagartiidae sp. (O) and <i>Sabella pavonina</i> (O). Emergent infaunal tubes (P), Caridea sp. (R), Paguridae spp. (O), juvenile <i>Scylliorhinus</i> sp. (P), teleost spp. (R), <i>Glyptocephalus cyanoglossus?</i> (O).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA01_13	Sandy mud, slightly shelly, with whole shells (1%) and sparse cobbles (<1%) and boulders (<1%).	Mud lightly burrowed by small burrowers and supporting hydroid tufts (F), <i>Cerianthus lloydii</i> (O), Sagartiidae sp. (F), <i>Sabella pavonina</i> (O) and <i>Amphiura</i> spp. (S locally). Caridea sp. (R), <i>Munida</i> spp. (O), Paguridae spp. (O), <i>Inachus</i> sp. (O), <i>Brachyura</i> sp. (R), <i>Alcyonidium diaphanum</i> (R), <i>Ophiocomina nigra</i> (F), <i>Henricia</i> sp. (R), <i>Luidia ciliaris</i> (O), Scylliorhinidae sp. (P), teleost spp. (O). Stones with <i>Alcyonium digitatum</i> (R), <i>Metridium dianthus</i> (P) and <i>Echinus esculentus</i> (P).	SS.SMu.OMu		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA01_15.01	Silted cobbles (45%), boulders (5%) on mixed gravelly, muddy sand with small bedrock outcrops (5%).	Stones encrusted with yellow sponge (R), serpulid worms (A locally) and <i>Parasmittina trispinosa</i> (R) and supporting <i>Suberites</i> sp. (R), branching sponge (R), hydroids (F) including <i>Nemertesia ramosa</i> , <i>Alcyonium digitatum</i> (O, locally C), <i>Caryophyllia smithii</i> (F locally), <i>Securiflustra securifrons?</i> (R) and <i>Diazona violacea</i> (F). <i>Munida rugosa</i> (O), Crinoidea sp. (P), <i>Asterias rubens</i> (F), <i>Echinus esculentus</i> (F).	CR.LCR, SS.SMx.OMx	RF:ST	
FMA01_15.02	Silted bedrock (40%) and boulders (40%) and cobbles (10%) on patches of muddy sand (10%).	Rock encrusted with <i>Parasmittina trispinosa</i> (R) and supporting <i>Axinella infundibuliformis</i> (O), yellow cushion sponge (R), hydroids (F), <i>Alcyonium digitatum</i> (A locally), <i>Swiftia pallida</i> (F), <i>Caryophyllia smithii</i> (F, locally C), <i>Porella compressa</i> (P) and <i>Diazona violacea</i> (P). Crinoidea sp. (P), <i>Asterias rubens</i> (F), <i>Porania pulvillus</i> (O), <i>Luidia ciliaris</i> (F), <i>Echinus esculentus</i> (C).	CR.HCR.XFa.SwiLgAs	RF:ST, RF:BR	NS:MT, NS:SP
FMA01_15.03	Silted cobbles (20%) and boulders (5%) on mixed gravelly, muddy sand (75%) with small silted bedrock slope at end (<1%).	Stones with hydroids (F on rock), <i>Alcyonium digitatum</i> (R), <i>Swiftia pallida</i> (O), <i>Porella compressa?</i> (P) and field of <i>Leptometra celtica</i> at end (where C). <i>Cerianthus lloydii?</i> (O), <i>Munida rugosa</i> (O), <i>Asterias rubens</i> (P), teleost sp. (P).	CR.LCR, SS.SMx.OMx	RF:ST	NS:SP, LC
FMA01_15.04	Slightly gravelly, sandy mud with sparse boulders (<1%).	Sediment with fairly sparse small burrows (except at very end) and some of probably <i>Nephrops norvegicus</i> (F). <i>Cerianthus lloydii</i> (F), <i>Pennatula phosphorea</i> (O), <i>Funiculina quadrangularis</i> (P), <i>Alcyonium digitatum</i> (R), <i>Caryophyllia smithii</i> (O, locally F). Caridea sp. (P), <i>Munida</i> spp. (F), <i>Cancer pagurus</i> (P), <i>Pecten maximus</i> (P), <i>Leptometra celtica</i> (C), <i>Henricia</i> sp.? (P), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (P), teleost sp. (P).	SS.SMu.OMu		BM:PM, LA

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA01_16.01	Sandy mud.	Moderate density of small megafaunal burrows and those of <i>Nephrops norvegicus</i> (C, 6 animals seen). Sagartiidae sp. (F), <i>Pachycerianthus multiplicatus?</i> (P), <i>Cerianthus lloydii</i> (O), fine emergent polychaete tubes? (P), Bonellidae sp. (P), <i>Munida</i> sp. (P), <i>Pagurus bernhardus</i> (P), Paguridae spp. (O), <i>Buccinum undatum</i> (O), bivalve siphons (locally C - possibly those of <i>Arctica islandica</i>), <i>Amphiura</i> spp. (P), teleost sp. (P).	SS.SMu.CFiMu.SpnMeg		BM:SB, BM:PM, AI?
FMA01_16.02	Sandy mud with varying quantities of shell gravel (overall around 10%) and isolated boulder (<1%).	Sparse small megafaunal burrows becoming denser locally towards end of run in transitional area, where <i>Nephrops norvegicus</i> starts to appear (locally C, 6 animals seen). Hydroid clumps (F), <i>Alcyonium digitatum</i> (R), Sagartiidae sp. (F, locally C), <i>Cerianthus lloydii</i> (F), <i>Metridium dianthus</i> (P), <i>Urticina</i> sp.? (P), <i>Sabella pavonina?</i> (P), Caridea sp. (O), <i>Munida</i> sp. (P), Paguridae spp. (F), <i>Buccinum undatum</i> (O), <i>Modiolus modiolus?</i> (P), <i>Amphiura</i> spp. (Locally A), <i>Ophiocomina nigra</i> (locally C towards end of run, locally A on boulder), <i>Luidia ciliaris</i> (F), teleost sp. (P).	SS.SMu.OMu		
FMA01_17	Mud, probably sandy, with sparse boulders (<1%).	Mud fairly well burrowed by small burrowers and <i>Nephrops norvegicus</i> (C, 13 animals seen). <i>Cerianthus lloydii</i> (O), Sagartiidae sp. (C), <i>Sabella pavonina</i> (R), Caridea sp. (O), <i>Munida</i> spp. (O), <i>Pagurus bernhardus</i> (P), bivalve siphons (P), teleost spp. (O) including <i>Pleuronectiformes</i> sp. Boulders with <i>Metridium dianthus</i> (P) and <i>Echinus esculentus</i> (P). Working creel.	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA01_18.01	Silted boulders (25%), cobbles (5%), low-relief bedrock outcrops (25%), mud (45%).	Mud with fairly low density of small megafaunal burrows and <i>Cerianthus lloydii</i> (F). Rock with hydroid turf (C), <i>Swiftia pallida</i> (F), <i>Caryophyllia smithii</i> (C), Sagartiidae sp. (F), <i>Metridium dianthus</i> (C), <i>Salmacina dysteri/Filograna implexa</i> (R), <i>Leptometra celtica</i> (C), <i>Henricia</i> sp.? (P), <i>Echinus esculentus</i> (F). <i>Munida</i> spp. (O).	CR.HCR.XFa.SwiLgAs, SS.SMu.CFiMu.SpnMeg	RF:ST, RF:BR	BM:SB, NS:MT, NS:SP, LA

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA01_18.02	Soft mud.	Mud fairly well burrowed by <i>Calocaris macandreae</i> (C) and <i>Nephrops norvegicus</i> (C, 32 animals seen). Pennatulacea spp. (O) including <i>Virgularia mirabilis</i> and <i>Pennatula phosphorea</i> , <i>Cerianthus lloydii</i> (initially F), Sagartiidae sp. (initially C), <i>Sabella pavonina</i> (O), Caridea sp. (O), <i>Luidia ciliaris</i> (F), teleost spp. (O) including Pleuronectiformes sp.	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA01_20	Mud.	Moderate density of megafaunal burrows including <i>Nephrops norvegicus</i> (C, 3 animals seen). <i>Virgularia mirabilis</i> (O), <i>Cerianthus lloydii</i> (P), <i>Sabella pavonina</i> (O). Camera caught by creel line towards end, where creel scars present on mud (possibly resulting from tangling).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA01_22	Soft mud.	Fairly well-burrowed mud with burrowers including <i>Calocaris macandreae</i> (C) and <i>Nephrops norvegicus</i> (C, 29 animals seen). <i>Funiculina quadrangularis</i> (F), <i>Virgularia mirabilis</i> (O), <i>Pennatula phosphorea</i> (O), <i>Cerianthus lloydii</i> (O), Caridea sp. (O), <i>Sabella pavonina</i> (P), <i>Munida</i> sp. (P), Pleuronectiformes sp. (P).	SS.SMu.CFiMu.SpnMeg. Fun		BM:SB, BM:FQ
FMA01_23.01	Mud.	Fairly well-burrowed mud with burrowers including <i>Calocaris macandreae</i> (C) and <i>Nephrops norvegicus</i> (C, 5 animals seen). <i>Cerianthus lloydii</i> (P), Sagartiidae sp. (O), <i>Sabella pavonina</i> tubes (P), <i>Munida</i> sp. (P), Pleuronectidae sp. (F).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA01_23.02	Flat, silted bedrock (75%), boulders (10%) and sandy mud (15%)	Rock with hydroids (O) including <i>Nemertesia antennina</i> (P), <i>Caryophyllia smithii</i> (C), <i>Swiftia pallida</i> (C), Sagartiidae sp. (F), <i>Salmacina dysteri</i> , <i>Filograna implexa</i> (R) and <i>Alcyonidium diaphanum</i> (R). Caridea sp. (P), <i>Munida</i> sp. (P), teleost sp. (P).	CR.MCR.EcCr.CarSwi.L gAs	RF:ST, RF:BR	NS:CS, NS:SP
FMA01_23.03	Mud.	Fairly well-burrowed mud with burrowers including <i>Calocaris macandreae</i> (C) and <i>Nephrops norvegicus</i> (C, 2 animals seen). <i>Alcyonium digitatum</i> (R), Sagartiidae sp. (F).	SS.SMu.CFiMu.SpnMeg		BM:SB

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA01_23.04	Sandy mud (50%) with silted boulders (35%), cobbles (10%) and pebbles (5%).	Lightly burrowed mud with <i>Cerianthus lloydii</i> (O), Sagartiidae sp. (F, C locally) and fine polychaete tubes (P). Rock supporting <i>Suberites carnosus</i> (P), white cushion sponge, (R), silted branching sponge (R), hydroid turf (C), <i>Alcyonium digitatum</i> (R), <i>Swiftia pallida</i> (O), <i>Caryophyllia smithii</i> (O, locally S), <i>Metridium dianthus</i> (A, but in clusters), <i>Sabella pavonina</i> (P), <i>Salmacina dysteri/Filograna implexa</i> (R), <i>Alcyonidium diaphanum</i> (O), Caridea sp. (O), <i>Inachus</i> sp. (P), <i>Munida</i> spp. (F), Paguridae spp. (O), <i>Henricia</i> sp. (P).	CR.HCR.XFa.SwiLgAs, SS.SMu.OMu	RF:ST	NS:MT, NS:SP
FMA01_23.05	Mud.	Moderately well-burrowed mud with burrowers including <i>Calocaris macandreae</i> (P) and <i>Nephrops norvegicus</i> (C, 2 animals seen). Sagartiidae sp. (O), <i>Cerianthus lloydii</i> (O), <i>Sabella pavonina</i> (O), teleost sp. (P).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA01_29.01	Gravelly (15%) muddy sand with sparsely scattered pebbles (5%), cobbles (5%) and shells (2%).	Stones supporting hydroid (F) and bryozoan (P) turf and <i>Alcyonium digitatum</i> (R). Emergent infaunal tubes (P), <i>Sabella pavonina</i> (O), <i>Munida</i> spp. (O), <i>Ophiocomina nigra</i> (P), teleost spp. (O).	SS.SMu.OMu		
FMA01_29.02	Gravelly (15%) muddy sand (57%) with shells (<1% including <i>Modiolus modiolus</i>), pebbles (5%) and silted cobbles (15%), boulders (3%) and bedrock outcrops (5%).	Rock surfaces supporting sponges including <i>Axinella infundibuliformis</i> (O), <i>Polymastia boletiformis</i> (O), <i>Suberites carnosus</i> (P), cream cushion sponge, hydroid turf (C) including <i>Nemertesia antennina</i> (P), <i>Alcyonium digitatum</i> (R), <i>Caryophyllia smithii</i> (P), Sagartiidae sp. (P), Actinaria sp. (P), <i>Salmacina dysteri/Filograna implexa</i> (R), <i>Sabella pavonina</i> (F), <i>Parasmittina trispinosa?</i> (R) and <i>Alcyonidium diaphanum</i> (F, locally C). <i>Cerianthus lloydii</i> (O), Terebellidae spp. (P), Caridea spp. (O), <i>Munida</i> spp. (O), Paguridae spp. (O), <i>Inachus</i> sp. (P), <i>Ophiocomina nigra</i> (O), <i>Luidia ciliaris</i> (P).	CR.HCR.DpSp.PhaAxi, SS.SMu.OMu	RF:ST	NS:DS

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA01_29.03	Silted bedrock outcrop including steep slope.	Rock supports hydroids (O), <i>Alcyonium digitatum</i> (R), <i>Urticina eques?</i> (O), <i>Metridium dianthus</i> (F), <i>Caryophyllia smithii</i> (C locally), <i>Sabella pavonina</i> (O) and <i>Novocrania anomala</i> (C locally). <i>Inachus</i> sp. (P), <i>Ophiothrix fragilis</i> (S locally), <i>Ophiocomina nigra</i> (P), <i>Asterias rubens?</i> (P), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (P). Boundary with following biotope uncertain due to localised absence of seabed imagery.	CR.LCR	RF:BR	
FMA01_29.04	Gravelly (10%) muddy sand (70%) with silted cobbles (15%), boulders (3%) and flat bedrock outcrops (2%).	Rock surfaces supporting <i>Axinella infundibuliformis</i> (O), yellow digitiform sponge (R), hydroid turf (C), <i>Alcyonium digitatum</i> (R), <i>Swiftia pallida</i> (F), <i>Caryophyllia smithii</i> (C locally), <i>Actiniaria</i> sp. (O), <i>Metridium dianthus</i> (C), <i>Salmacina dysteri</i> / <i>Filograna implexa</i> (R), <i>Sabella pavonina</i> (O) and <i>Alcyonidium diaphanum</i> (F, locally C). <i>Cerianthus lloydii</i> (F), <i>Caridea</i> spp. (O), <i>Munida</i> spp. (O), <i>Paguridae</i> spp. (P), <i>Ophiuroidea</i> spp. (S locally) including <i>Ophiocomina nigra</i> (P), <i>Asterias rubens</i> (P), <i>Henricia</i> sp. (P), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (P), teleost spp. (O). Sediment with very sparse small burrows.	CR.HCR.XFa.SwiLgAs, SS.SMu.OMu	RF:ST	NS:MT, NS:SP
FMA01_30.01	Cobbles (20%), boulders (<1%) and pebbles (5%) on muddy sand (75%).	Stones support <i>Axinella infundibuliformis</i> (O), <i>Polymastia boletiformis</i> (R), hydroids (F), <i>Swiftia pallida</i> (F), <i>Metridium dianthus</i> (F), <i>Urticina</i> sp.? (P), <i>Caryophyllia smithii</i> (C locally), <i>Salmacina dysteri</i> / <i>Filograna implexa</i> (R) and <i>Novocrania anomala</i> (P). <i>Cerianthus lloydii</i> (O), <i>Crinoidea</i> spp. (O), <i>Asterias rubens</i> (P), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (C), teleost sp. (P).	CR.HCR.XFa.SwiLgAs, SS.SMu.OMu	RF:ST	NS:MT, NS:SP
FMA01_30.02	Cohesive muddy sand.	Fairly sparse megafaunal burrows including some <i>Calocaris macandreae</i> and <i>Nephrops norvegicus</i> and emergent infaunal tubes (P). <i>Anthozoa</i> spp. (F), <i>Metridium dianthus</i> (P), hydroid tufts (F), <i>Paguridae</i> sp. (P), <i>Munida</i> sp. (P), <i>Alcyonidium diaphanum</i> (R), <i>Crinoidea</i> spp. (O), <i>Luidia ciliaris</i> (P).	SS.SMu.OMu		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA01_31.01	Mud, probably sandy, with sparse cobbles and boulders (<1%).	Mud fairly well burrowed by small burrowers including <i>Calocaris macandreae</i> (possibly C) and <i>Nephrops norvegicus</i> (C, 3 animals seen). <i>Virgularia mirabilis?</i> (P), <i>Cerianthus lloydii</i> (O), <i>Munida</i> spp. (O), <i>Leptometra celtica</i> (O), teleost sp. (P). Stones with hydroid turf (locally F), <i>Alcyonium digitatum</i> (R) and <i>Caryophyllia smithii</i> (locally C).	SS.SMu.CFiMu.SpnMeg		BM:SB, LC
FMA01_31.02	Sandy mud (80%) with scattered cobbles (5%), boulders (10%) and bedrock outcrops (5%).	Mud with moderate density of megafaunal burrows including <i>Nephrops norvegicus</i> (P) and supporting <i>Pennatula phosphorea</i> (P) and <i>Cerianthus lloydii</i> (O). Rock supporting <i>Axinella infundibuliformis</i> (O), <i>Swiftia pallida</i> (O), hydroids (C locally), <i>Alcyonium digitatum</i> (R), <i>Caryophyllia smithii</i> (C locally), <i>Metridium dianthus</i> (P). <i>Munida</i> spp. (F), <i>Leptometra celtica</i> (C locally), <i>Henricia</i> sp. (P), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (F).	SS.SMu.CFiMu.SpnMeg, CR.HCR.XFa.SwiLgAs	RF:ST	BM:SB, NS:MT, NS:SP, LA
FMA01_31.03	Sandy mud with sparse cobbles (<1%).	Moderate density of small megafaunal burrows and those of <i>Nephrops norvegicus</i> (C). <i>Alcyonium digitatum</i> (R), <i>Cerianthus lloydii</i> (P), <i>Caryophyllia smithii</i> (R), Paguridae sp. (P), <i>Luidia ciliaris</i> (P), teleost sp. (P).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA01_31.04	Sandy mud (45%) with silted cobbles (15%), boulders (20%) and flat bedrock (20%).	Mud lightly burrowed with small burrows locally. <i>Cerianthus lloydii</i> (O), <i>Munida</i> spp. (F), <i>Leptometra celtica</i> (C locally). Rock supporting cream encrusting sponge (R), hydroid turf (C) including <i>Nemertesia ramosa</i> (P), <i>Alcyonium digitatum</i> (R), <i>Swiftia pallida</i> (O), <i>Caryophyllia smithii</i> (C), <i>Metridium dianthus</i> (C), <i>Salmacina dysterii</i> / <i>Filograna implexa</i> (R).	CR.HCR.XFa.SwiLgAs, SS.SMu.OMu	RF:ST, RF:BR	NS:MT, NS:SP, LC
FMA01_34.01	Sandy mud.	Moderate density of megafaunal burrows including <i>Nephrops norvegicus</i> (C, 3 animals seen). Sagartiidae sp. (O), <i>Luidia ciliaris</i> (P).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA01_34.02	Sandy mud with scattered cobbles (10%) and shells (<1%) including <i>Modiolus modiolus</i> .	Cobbles supporting hydroids (where F) including <i>Halecium halecinum?</i> (P), <i>Urticina eques?</i> (O) and <i>Alcyonidium diaphanum</i> (F). Sagartiidae sp. (F), Caridea sp. (O), <i>Munida</i> sp. (P), Paguridae sp. (P), teleost sp. (P). Mud with very sparse burrows including possibly <i>Nephrops norvegicus</i> (P).	SS.SMu.OMu		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA01_35.01	Sandy? mud.	Fairly well-burrowed by megafauna for much of run including <i>Calocaris macandreae</i> (C) and <i>Nephrops norvegicus</i> (F, 7 animals seen). Sagartiidae sp. (F), <i>Cerianthus lloydii</i> (O), <i>Pennatulula phosphorea?</i> (R), Caridea sp. (O), <i>Munida</i> sp. (R), Paguridae spp. (R), hydroids (O), <i>Amphiura</i> spp. (P), dense long, fine, emergent tubes of possibly polychaetes (A), Terebellidae sp. (P), <i>Sabella pavonina</i> (O), teleost sp. (P).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA01_35.02	Silted bedrock with cliff at end of run.	Rock supports fairly dense <i>Swiftia pallida</i> for most of run (C), with Sagartiidae sp. (C), hydroid clumps (O), <i>Ophiocomina nigra</i> (C) and <i>Ophiura albida</i> (C locally). Cliff with aggregation of <i>Metridium dianthus</i> (S locally) and <i>Sabella pavonina?</i> (P). Paguridae sp. (P), <i>Echinus esculentus</i> (F).	CR.MCR.EcCr.CarSwi.LgAs	RF:BR	NS:CS, NS:SP
FMA04_01.01	Silted cobbles (25%) and boulders (5%) on gravelly (10%) muddy sediment with pebbles (5%).	Stones support hydroid turf (C, locally A), <i>Parasmittina trispinosa?</i> (R), <i>Porella compressa?</i> (R). <i>Cerianthus lloydii</i> (P), <i>Munida</i> spp. (F), <i>Leptometra celtica</i> (C locally), <i>Asterias rubens?</i> (P), <i>Porania pulvillus</i> (P), <i>Luidia ciliaris</i> (F).	SS.SMx.OMx, CR.HCR.XFa	RF:ST	LA
FMA04_01.02	Silted bedrock (50%, cobbles (30%) and boulders (20%).	Rock supports short hydroid turf (C, at least locally), <i>Caryophyllia smithii</i> (F, locally C), <i>Urticina eques?</i> (P), <i>Porella compressa</i> (P) and sparse <i>Swiftia pallida</i> (O) and <i>Axinella infundibuliformis/Phakellia ventilabrum?</i> (O). <i>Munida</i> spp. (O), <i>Leptometra celtica</i> (C), <i>Stichastrella rosea</i> (F)	CR.MCR.EcCr.CarSwi.LgAs	RF:ST, RF:BR	NS:CS, NS:SP, LC
FMA04_01.03	Shelly mud.	Moderate density of megafaunal burrowers including <i>Nephrops norvegicus</i> (C) and <i>Calocaris macandreae</i> (P). <i>Munida</i> spp. (F), <i>Leptometra celtica</i> (C), <i>Porania pulvillus</i> (P).	SS.SMu.CFiMu.SpnMeg		BM:SB, LA
FMA04_01.04	Silted bedrock (70%) and boulders (30%).	Poor visibility. Rock supports hydroid turf (A) and possibly <i>Axinella infundibuliformis/Phakellia ventilabrum</i> (P) and <i>Swiftia pallida</i> (P). <i>Stichastrella rosea</i> (P).	CR.HCR.XFa	RF:ST, RF:BR	NS:SP
FMA04_01.05	Soft mud.	Well-burrowed mud by <i>Calocaris macandreae</i> (A) and <i>Nephrops norvegicus</i> (C, 3 animals seen) with <i>Virgularia mirabilis</i> (O). <i>Munida</i> spp. (O), Crinoidea sp. (R).	SS.SMu.CFiMu.SpnMeg		BM:SB

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA04_02.01	Visibility intermittent. Areas of steep, silted bedrock slopes and cliffs and areas of cobbles, boulders and small bedrock outcrops mosaicked with muddy gravelly sediment.	Rock supporting fairly sparse <i>Caryophyllia smithii</i> (possibly F locally), hydroids (O, locally C), <i>Urticina eques?</i> (O), Sagartiidae sp. (O), <i>Sabella pavonina</i> (locally F), <i>Novocrania anomala</i> (P) and ophiuroids (C) including <i>Ophiocomina nigra</i> and <i>Ophiothrix fragilis</i> . <i>Munida</i> spp. (R), <i>Brachyura</i> sp. (P), <i>Amphiura</i> spp.? (P), <i>Porania pulvillus?</i> (P), <i>Echinus esculentus</i> (P). Some localised patches of megafaunal burrows.	CR.LCR, SS.SMu.OMu	RF:ST, RF:BR	
FMA04_02.02	Silted cobbles (35%) and boulders (10%) on muddy sand (45%) with bedrock outcrops (5%).	Rock supporting <i>Clathrina lacunosa?</i> (P), <i>Caryophyllia smithii</i> (possibly F, locally C), hydroid turf (C, locally A) including <i>Abietinaria abietina?</i> (P), <i>Swiftia pallida</i> (F, locally C), Actiniaria spp. (F) including <i>Cerianthus lloydii</i> (O), <i>Pachycerianthus multiplicatus</i> (F), <i>Urticina eques?</i> (O), Sagartiidae sp., <i>Sagartia elegans</i> var. <i>miniata?</i> , <i>Metridium dianthus</i> (R), <i>Sabella pavonina</i> (O), <i>Salmacina dysteri/Filograna implexa</i> (R), <i>Novocrania anomala</i> (P) and ophiuroids (O, locally S) including <i>Ophiocomina nigra</i> and <i>Ophiothrix fragilis</i> . Caridea sp. (P), <i>Pagurus prideaux</i> with <i>Adamsia palliata</i> (P), <i>Inachus</i> sp. (P), <i>Amphiura</i> spp.? (P), <i>Leptometra celtica</i> (F, locally A), <i>Porania pulvillus</i> (O), <i>Solaster endeca</i> (P), <i>Echinus esculentus</i> (F).	CR.MCR.EcCr.CarSwi.LgAs, SS.SMu.OMu	RF:ST	BM:PM, NS:CS, NS:SP, LC
FMA04_02.03	Soft mud.	Well-burrowed mud by <i>Calocaris macandreae</i> (A) and <i>Nephrops norvegicus</i> (F) with juvenile <i>Virgularia mirabilis?</i> (P), Actiniaria spp. (F) and <i>Amphiura</i> spp. (S). <i>Munida</i> sp. (P).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA04_02.04	Steep, silted bedrock slope.	Rock supporting Ophiuroidea spp. (C), <i>Leptometra celtica</i> (C), <i>Sabella pavonina</i> (P) and <i>Urticina eques?</i> (P).	CR.LCR	RF:BR	LC
FMA04_03	Soft mud.	Well-burrowed mud by <i>Calocaris macandreae</i> (C) and <i>Nephrops norvegicus</i> (C, 7 animals seen) with <i>Funiculina quadrangularis?</i> (O) and <i>Pennatula phosphorea</i> (O). <i>Sabella pavonina</i> tubes (O), teleost spp. (O), Pleuronectiformes sp. (P).	SS.SMu.CFiMu.SpnMeg. Fun		BM:SB, BM:FQ

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA04_04	Soft mud.	Well-burrowed mud with <i>Calocaris macandreae</i> (C, locally A) and <i>Nephrops norvegicus</i> (C, 12 animals seen). <i>Funiculina quadrangularis</i> (C), <i>Virgularia mirabilis?</i> (O), <i>Cerianthus lloydii</i> (P), Anthozoa sp. (P), Caridea sp. (P), teleost spp. (R).	SS.SM _u .CFiMu.Sp _n Meg. Fun		BM:SB, BM:FQ
FMA04_05	Soft mud.	Visibility poor. Well-burrowed mud with <i>Calocaris macandreae</i> (A) and <i>Nephrops norvegicus</i> (P, 1 animal seen). <i>Funiculina quadrangularis</i> (P).	SS.SM _u .CFiMu.Sp _n Meg. Fun		BM:SB, BM:FQ
FMA04_06	Soft mud with isolated boulder (<1%).	Well-burrowed mud by <i>Calocaris macandreae</i> (C, locally A) and <i>Nephrops norvegicus</i> (C) with <i>Funiculina quadrangularis</i> (C), <i>Virgularia mirabilis?</i> (O), <i>Pennatula phosphorea?</i> (R), <i>Cerianthus lloydii</i> (R) and <i>Pachycerianthus multiplicatus</i> (P, 1 seen). <i>Sabella pavonina</i> (F), Crinoidea sp. (R), teleost sp. (P), small, thin polychaete? tubes (C locally). Boulder supporting hydroids and <i>Caryophyllia smithii</i> .	SS.SM _u .CFiMu.Sp _n Meg. Fun		BM:SB, BM:FQ, BM:PM
FMA04_07	Gravelly (15%) muddy sand (35%) with silted cobbles (35%), boulders (10%) and bedrock outcrops (10%).	Rock with patchy, short hydroid turf or scrub (A) but sparse clumps of larger forms including <i>Nemertesia ramosa</i> and <i>N. antennina</i> . Also supporting <i>Swiftia pallida</i> (F initially but O overall), <i>Caryophyllia smithii</i> (O, locally C), <i>Parasmittina trispinosa</i> (R), <i>Porella compressa</i> (F) and <i>Ascidia virginea</i> (R). <i>Pecten maximus?</i> (P), Crinoidea spp. (O), <i>Crossaster papposus</i> (P), <i>Asterias rubens</i> (F), <i>Porania pulvillus</i> (O), <i>Stichastrella rosea</i> (F), <i>Echinus esculentus</i> (F), <i>Labrus mixtus</i> (P).	CR.MCR.EcCr.CarSwi.L gAs SS.SM _x .OM _x	RF:ST, RF:BR	NS:CS, NS:SP
FMA04_08	Mixed sediment of gravelly (20%) muddy sand (50%) with pebbles (6%) and scattered, silted cobbles (20%), boulders (4%) and bedrock outcrops (<1%, although probably with veneer of sediment elsewhere).	Rock with hydroid and possibly bryozoan turf (A) including <i>Halecium halecinum?</i> and Anthoathecata sp., <i>Caryophyllia smithii</i> (locally C), <i>Axinella infundibuliformis/Phakellia ventilabrum</i> (R), yellow encrusting sponge (R), <i>Swiftia pallida</i> (R, locally F), <i>Urticina eques</i> (F), <i>Metridium dianthus</i> (F), <i>Parazoanthus anguicomus</i> (R), <i>Salmacina dysteri/Filograna implexa</i> (R), <i>Sabella pavonina</i> (O, locally A). Sediment with <i>Cerianthus lloydii</i> (F) and Sagartiidae sp. (F, locally C). Caridea sp. (R), <i>Munida</i> spp. (O), Crinoidea spp. (O), <i>Ophiocomina nigra</i> (R, locally C), <i>Porania pulvillus</i> (F), <i>Luidia ciliaris</i> (O), <i>Solaster endeca</i> (P), <i>Echinus esculentus</i> (O). Discarded creel.	SS.SM _x .OM _x , CR.HCR.XFa	RF:ST	NS:SP, PA

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA04_09	Soft mud.	Densely burrowed mud by <i>Calocaris macandreae</i> (A) and <i>Nephrops norvegicus</i> (C, 2 animals seen). <i>Funiculina quadrangularis</i> (P), <i>Virgularia mirabilis</i> (O), <i>Cerianthus lloydii</i> (P), <i>Sabella pavonina</i> (O), <i>Asterias rubens</i> (P), <i>Cepola macrophthalma?</i> (P).	SS.SMu.CFiMu.SpnMeg. Fun		BM:SB, BM:FQ
FMA04_10	Soft mud with sparsely scattered cobbles (<1%) and boulders (<1%).	Fairly well-burrowed mud with <i>Calocaris macandreae</i> (C), <i>Nephrops norvegicus</i> (C, 4 animals seen) and smaller holes. <i>Pennatula phosphorea</i> (R), <i>Cerianthus lloydii</i> (P), <i>Urticina eques?</i> (P), orange anthozoans (O), <i>Sabella pavonina</i> (O), <i>Leptometra celtica</i> (locally A over large area). Stones with hydroids (P) and <i>Caryophyllia smithii</i> (locally C).	SS.SMu.CFiMu.SpnMeg		BM:SB, LA
FMA04_11.01	Soft mud.	Well-burrowed mud with <i>Calocaris macandreae</i> (C, locally A) and <i>Nephrops norvegicus</i> (C, 11 animals seen). <i>Pennatula phosphorea</i> (R), <i>Virgularia mirabilis</i> (O), <i>Cerianthus lloydii</i> (R), orange Actiniaria sp. (O), <i>Caryophyllia smithii</i> (R), <i>Munida</i> spp. (O), Crinoidea spp. (O), <i>Asterias rubens</i> (P), teleost spp. (O), Pleuronectidae sp. (P).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA04_11.02	Silted bedrock cliff.	Very poor visibility but rock apparently supporting <i>Swiftia pallida</i> (P), <i>Axinella infundibuliformis</i> (P) and Crinoidea spp. (P).	CR.MCR.EcCr.CarSwi.L gAs	RF:BR	NS:CS, NS:SP
FMA04_12.01	Soft mud with isolated boulder (<1%).	Well-burrowed mud by <i>Calocaris macandreae</i> (C) and <i>Nephrops norvegicus</i> (C) with <i>Pennatula phosphorea?</i> (P). Actiniaria sp. (O). Boulder with hydroid turf (where A) and <i>Caryophyllia smithii</i> (where C).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA04_12.02	Silted boulders (25%) on mud.	Boulders support occasional hydroids, <i>Caryophyllia smithii</i> (F, locally C) and actinarians including <i>Metridium dianthus</i> (C) and <i>Urticina</i> sp.? (P). <i>Pachycerianthus multiplicatus</i> (P), <i>Munida</i> spp. (F), <i>Cancer pagurus</i> (P), <i>Asterias rubens</i> (P). Sediment well burrowed by <i>Calocaris macandreae</i> (C) and with emergent infaunal tubes (P).	SS.SMu.CFiMu.SpnMeg, CR.LCR	RF:ST	BM:SB, BM:PM
FMA04_12.03	Soft mud.	Well-burrowed mud by <i>Calocaris macandreae</i> (C) and <i>Nephrops norvegicus</i> (C).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA04_12.04	Silted boulders (85%) with small mud pockets (15%).	Rock supporting anemones, particularly <i>Metridium dianthus</i> (A), <i>Urticina eques?</i> (P) and <i>Caryophyllia smithii</i> (F locally).	CR.LCR	RF:ST	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA04_12.05	Mud with isolated boulder (<1%).	Moderate density of megafaunal burrowers including <i>Calocaris macandreae</i> (C) and <i>Nephrops norvegicus</i> (P, 1 animal seen). Boulder with <i>Metridium dianthus</i> (where S).	SS.SMu.CFiMu.SpMmeg		BM:SB
FMA04_12.06	Silted boulders (85%) on mud (15%).	Rock supporting <i>Caryophyllia smithii</i> (F locally) and <i>Metridium dianthus</i> ? (P). <i>Cerianthus lloydii</i> ? (O), <i>Eledone cirrhosa</i> (P), <i>Porania pulvillus</i> (P), <i>Echinus esculentus</i> (C). Mud with megafaunal burrows.	CR.LCR	RF:ST	
FMA04_12.07	Soft mud.	Well-burrowed mud by <i>Calocaris macandreae</i> (C, locally A) and <i>Nephrops norvegicus</i> (C) with <i>Cerianthus lloydii</i> (O) and <i>Sabella pavonina</i> (O).	SS.SMu.CFiMu.SpMmeg		BM:SB
FMA04_13.01	Silted bedrock outcrops (20%) and boulders (20%) and cobbles (10%) on mud (50%), probably sandy.	Rock supporting hydroids (F, locally C), <i>Caryophyllia smithii</i> (C), <i>Swiftia pallida</i> (O), <i>Axinella infundibuliformis</i> ? (R), <i>Porella compressa</i> ? (P) and <i>Alcyonium digitatum</i> ? (R). <i>Pachycerianthus multiplicatus</i> (P, 1 seen), <i>Munida</i> spp. (F), <i>Leptometra celtica</i> (C, but A over extensive area, particularly on rock), <i>Stichastrella rosea</i> (P), <i>Luidia ciliaris</i> (P), <i>Pleuronectiformes</i> sp. (P).	CR.MCR.EcCr.CarSwi.LgAs, SS.SMu.OMu	RF:ST, RF:BR	BM:PM, NS:CS, NS:SP, LA
FMA04_13.02	Soft mud with sparse boulders initially (<1%).	Well-burrowed mud by <i>Calocaris macandreae</i> (A) and <i>Nephrops norvegicus</i> (C, 4 animals seen) with <i>Virgularia mirabilis</i> (O), <i>Cerianthus lloydii</i> (O) and <i>Actiniaria</i> sp. (R). <i>Sabella pavonina</i> clumps (O), <i>Munida</i> spp. (O), teleost spp. (O). Boulders supporting hydroids and <i>Caryophyllia smithii</i> .	SS.SMu.CFiMu.SpMmeg		BM:SB
FMA04_14.01	Sandy mud with scattered cobbles (10%) and pebbles (5%).	Stones supporting hydroids (P). <i>Munida</i> spp. (P), Crinoidea sp. (P).	SS.SMu.OMu		
FMA04_14.02	Silted bedrock slope.	Rock supporting hydroid turf (A), <i>Axinella infundibuliformis</i> / <i>Phakellia ventilabrum</i> (F), <i>Caryophyllia smithii</i> (C, at least locally) and <i>Swiftia pallida</i> (P). <i>Leptometra celtica</i> (O), <i>Porania pulvillus</i> (P).	CR.HCR.XFa.SwiLgAs	RF:BR	NS:MT, NS:SP, LC
FMA04_14.03	Sandy mud, locally superficial cover over bedrock.	Fairly sparse, small megafaunal burrows, <i>Leptometrica celtica</i> (C).	SS.SMu.OMu		LA

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA04_14.04	Silted bedrock slope.	Rock supporting hydroid turf (P), <i>Axinella infundibuliformis</i> / <i>Phakellia ventilabrum</i> (P), <i>Caryophyllia smithii</i> (P), <i>Swiftia pallida</i> (P), <i>Sabella pavonina</i> (P) and <i>Novocrania anomala</i> (P). <i>Munida</i> sp. (P), <i>Leptometra celtica</i> (C, locally A), <i>Porania pulvillus</i> (P).	CR.HCR.XFa.SwiLgAs	RF:BR	NS:MT, NS:SP, LC
FMA04_14.05	Mud.	<i>Calocaris macandreae</i> (C).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA04_14.06	Silted bedrock slope with some boulders (<1%).	Rock supporting hydroid turf (P), <i>Caryophyllia smithii</i> (P) and orange Anthozoa sp. (P)	CR.HCR.XFa	RF:BR	
FMA04_14.07	Soft mud.	Densely burrowed mud by <i>Calocaris macandreae</i> (A) and <i>Nephrops norvegicus</i> (C). <i>Funiculina quadrangularis</i> (F), <i>Virgularia mirabilis</i> ? (R), <i>Sabella pavonina</i> (O), Anthozoa spp. (F), <i>Cerianthus lloydii</i> (P).	SS.SMu.CFiMu.SpnMeg. Fun		BM:SB, BM:FQ
FMA04_15	Soft mud.	Well-burrowed mud by <i>Calocaris macandreae</i> (A) and <i>Nephrops norvegicus</i> (F) with <i>Funiculina quadrangularis</i> (F) and <i>Cerianthus lloydii</i> (P). <i>Sabella pavonina</i> (C), Crinoidea spp. (O), teleost sp. (P).	SS.SMu.CFiMu.SpnMeg. Fun		BM:SB, BM:FQ
FMA04_16.01	Sandy mud with dense, silted cobbles (40%) and some boulders (<1%).	Stones with short turf of hydroids (C), <i>Axinella infundibuliformis</i> (R), <i>Caryophyllia smithii</i> (F), <i>Parasmittina trispinosa</i> ? (R) and <i>Porella compressa</i> (F). <i>Munida</i> spp. (F), <i>Leptometra celtica</i> (O), <i>Stichastrella rosea</i> (F), <i>Porania pulvillus</i> (F). Sediment with sparse, small, megafaunal burrows.	SS.SMu.OMu, CR.LCR	RF:ST	LC
FMA04_16.02	Sandy mud with sparse cobbles (<1%) and boulders (<1%).	Sediment with moderate density of megafaunal burrowers, possibly including <i>Nephrops norvegicus</i> (P). Stones with <i>Caryophyllia smithii</i> (P). <i>Leptometra celtica</i> (A for most of run), <i>Cerianthus lloydii</i> (P), <i>Munida</i> spp. (F), <i>Amphiura</i> spp. (A, locally S), <i>Echinus esculentus</i> (F).	SS.SMu.CFiMu.SpnMeg		BM:SB, LA
FMA04_16.03	Sandy mud (50%) with cobbles (20%), boulders (20%) and bedrock (10%) including slope.	Sediment with light density of megafaunal burrowers. Rock supporting <i>Caryophyllia smithii</i> (A), hydroids (locally A), <i>Urticina eques</i> (O), <i>Parazoanthus anguicomus</i> (P), <i>Clathrina lacunosa</i> (P) and <i>Novocrania anomala</i> (locally C). <i>Munida</i> spp. (F), <i>Leptometra celtica</i> (A), <i>Stichastrella rosea</i> (P), <i>Porania pulvillus</i> (O), <i>Echinus esculentus</i> (F).	SS.SMu.OMu, CR.LCR	RF:ST, RF:BR	PA, LA

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA04_16.04	Muddy sand.	<i>Munida</i> spp. (O), <i>Leptometra celtica</i> (C, locally A)	SS.SMu.OMu		LA
FMA04_17.01	Mixed substrate of muddy sand (35%), gravel (20%), pebbles (10%) and shells (10%, locally 70%) with scattered, silted cobbles (5%), boulders (10%) and bedrock outcrops (10%).	Rock supporting encrusting yellow sponge (R), <i>Iophon nigricans?</i> (R), <i>Caryophyllia smithii</i> (F, locally A), <i>Metridium dianthus</i> (C), <i>Sagartia elegans</i> var. <i>miniata?</i> (O), small white Anthozoa sp. (R), <i>Swiftia pallida</i> (R), hydroids (O, locally F) and <i>Novocrania anomala</i> (locally C). <i>Cerianthus lloydii</i> (F), <i>Pachycerianthus multiplicatus</i> (F), Caridea sp. (O), <i>Munida</i> spp. (F), <i>Inachus</i> sp. (P), Ophiuroidea sp. (P), <i>Asterias rubens</i> (P), <i>Henricia</i> sp. (P), <i>Porania pulvillus</i> (O), <i>Echinus esculentus</i> (F).	SS.SMx.OMx, CR.LCR	RF:ST, RF:BR	NS:SP, BM:PM
FMA04_17.02	Mud.	Moderate density of megafaunal burrowers including <i>Calocaria macandreae</i> and probably <i>Nephrops norvegicus</i> (P). <i>Caryophyllia smithii</i> (R), Actiniaria sp. (P), Caridea sp. (P), teleost sp. (P).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA04_17.03	Mixed substrate of sandy mud (45%) with shells (45%), shell gravel (10%) and cobbles and pebbles (<1%).	Sparse megafaunal burrows, <i>Caryophyllia smithii</i> (O), <i>Metridium dianthus</i> (P), <i>Cerianthus lloydii?</i> (P), Actiniaria spp. (P), <i>Sabella pavonina</i> (P), <i>Munida</i> sp. (P), Paguridae spp. (O), teleost sp. (P).	SS.SMx.OMx		
FMA04_17.04	Sandy mud with sparsely scattered cobbles (<1%) and boulders (<1%).	Sediment with moderate density of megafaunal burrows including possibly <i>Nephrops norvegicus</i> (P). Actiniaria spp. (F) including Sagartiidae sp., <i>Caryophyllia smithii</i> (R), Caridea sp. (P), Paguridae spp. (O), <i>Amphiura</i> spp. (A, at least locally), teleost sp. (P).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA04_18	Soft mud.	Well-burrowed mud by <i>Calocaris macandreae</i> (A) and <i>Nephrops norvegicus</i> (C, 2 animals seen) with <i>Virgularia mirabilis</i> (F) and <i>Pennatula phosphorea</i> (R). <i>Cerianthus lloydii</i> (R), orange Actiniaria sp. (P), <i>Sabella pavonina</i> (O), Caridea sp. (P), Paguridae sp. (P), <i>Scylliorhinus</i> sp. (P).	SS.SMu.CFiMu.SpnMeg		BM:SB

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA04_19	Soft mud.	Fairly well-burrowed mud with <i>Calocaris macandreae</i> (C) and <i>Nephrops norvegicus</i> (C, 14 animals seen). <i>Pennatula phosphorea</i> (R), <i>Virgularia mirabilis?</i> (R), <i>Cerianthus lloydii</i> (P), <i>Sabella pavonina</i> (R), teleost sp. (P).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA04_20.01	Mud with sparse boulders (<1%).	Fairly light density of small megafaunal burrowers. Sagartiidae sp. (P), Caridea sp. (P), <i>Munida</i> sp. (P), <i>Leptometra celtica</i> (A).	SS.SMu.CFiMu.SpnMeg		BM:SB, LA
FMA04_20.02	Shelly sand mud or muddy sand with 10% gravel and 5% shell with scattered cobbles (5%) and pebbles (5%).	Very sparse small megafaunal burrows, <i>Amphiura</i> spp. (A), Actiniaria spp. (F) including Sagartiidae sp. (P), <i>Sabella pavonina</i> (P), <i>Munida</i> spp. (O), <i>Leptometra celtica</i> (F, locally C), teleost sp. (P).	SS.SMu.OMu		LA
FMA04_20.03	Mud, initially sandy.	Increasing density of megafaunal burrowers, with <i>Calocaris macandreae</i> (overall C, locally A) and <i>Nephrops norvegicus</i> (F, 1 animal seen). <i>Pennatula phosphorea</i> (O), <i>Caryophyllia smithii</i> (R), Sagartiidae sp. (O), <i>Sabella pavonina</i> (O), Caridea sp. (O), <i>Munida</i> spp. (O), <i>Pagurus prideaux</i> with <i>Adamsia palliata</i> (F), <i>Buccinum undatum</i> (R), <i>Leptometra celtica</i> (F), <i>Amphiura</i> spp. (S locally), <i>Luidia ciliaris</i> (P), teleost sp. (P), Pleuronectiformes spp. (O).	SS.SMu.CFiMu.SpnMeg		BM:SB, LC
FMA04_21.01	Soft mud.	Well-burrowed mud by <i>Calocaris macandreae</i> (C, locally A) and <i>Nephrops norvegicus</i> (C, 7 animals seen) with <i>Funiculina quadrangularis</i> (F) and <i>Pennatula phosphorea</i> (R). <i>Cerianthus lloydii</i> (O), Sagartiidae sp. (P), <i>Sabella pavonina</i> tubes (O), Caridea sp. (P).	SS.SMu.CFiMu.SpnMeg. Fun		BM:SB, BM:FQ
FMA04_21.02	Silted bedrock slope (75%) with mud pockets (25%).	Visibility poor, but rock apparently supporting hydroid turf (A), <i>Caryophyllia smithii</i> (C locally) and sparse <i>Swiftia pallida?</i> (R) and <i>Axinella infundibuliformis/Phakellia ventilabrum</i> (R). Orange Actiniaria sp. (O), <i>Pachycerianthus multiplicatus</i> (F), <i>Echinus esculentus</i> (F), teleost sp. (P).	CR.HCR.XFa, SS.SMu.OMu	RF:BR	BM:PM, NS:SP
FMA04_21.03	Soft mud.	Well-burrowed mud by <i>Calocaris macandreae</i> (A) and <i>Nephrops norvegicus</i> (C, 1 animal seen). <i>Sabella pavonina</i> (O).	SS.SMu.CFiMu.SpnMeg		BM:SB

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA04_22.01	Mixed substrate of muddy sand (68%) with shell gravel (15%), shells (3%), pebbles (10%), cobbles (5%) with sparse boulders (<1%).	<i>Pachycerianthus multiplicatus</i> (F), <i>Cerianthus lloydii</i> (F), <i>Munida</i> spp. (O), <i>Leptometra celtica</i> (O), small teleost sp. (P). Large boulder with <i>Caryophyllia smithii</i> (where F, overall R), <i>Metridium dianthus</i> (where C, overall F) and <i>Ophiocolina nigra</i> (P, overall R).	SS.SMx.OMx		BM:PM, LC
FMA04_22.02	Sandy mud.	Lightly burrowed by megafaunal burrowers.	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA04_22.03	Mixed substrate of muddy sand (59%) withy gravel (15%), shells (1%), pebbles (10%), cobbles (15%) with sparse boulders (<1%).	<i>Pachycerianthus multiplicatus</i> (F), <i>Cerianthus lloydii</i> (F), Sagartiidae sp. (P), <i>Leptometra celtica</i> (C, locally A in large patches), <i>Amphiura</i> spp. (A, at least locally), teleost sp. (P).	SS.SMx.OMx		BM:PM, LA
FMA04_22.04	Silted bedrock (20%) and boulders (40%) on sandy mud (35%) with gravel (5%); sediment more mixed locally.	Rock with <i>Caryophyllia smithii</i> (C), yellow encrusting sponge (R), <i>Axinella infundibuliformis/Phakellia ventilabrum</i> (R), <i>Suberites</i> sp.? (R), <i>Swiftia pallida</i> (R), hydroids (O), <i>Urticina</i> spp./ <i>Bolocera tuediae?</i> (O), <i>Metridium dianthus</i> (P). <i>Cerianthus lloydii</i> , <i>Munida</i> spp. (O), <i>Leptometra celtica</i> (C locally), <i>Porania pulvillus</i> (O), teleost spp. (O).	CR.MCR.EcCr.FaAlCr.C ar, SS.SMu.OMu	RF:ST, RF:BR	NS:SP, LC
FMA04_22.05	Mixed substrate of muddy sand (55%) with gravel (30%), pebbles (10%), cobbles (5%).	<i>Pachycerianthus multiplicatus</i> (P), <i>Cerianthus lloydii</i> (F), <i>Munida</i> sp. (P), <i>Asterias rubens</i> (P), teleost sp. (P).	SS.SMx.OMx		BM:PM

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
NSF04_01.01	Silted bedrock (20%) boulders (35%) and cobbles (35%) on gravelly muddy sand (10%).	Rock supporting <i>Caryophyllia smithii</i> (A), <i>Haliclona urceolus?</i> (R), <i>Alcyonium digitatum</i> (O), <i>Swiftia pallida</i> (F, locally C), hydroids (O), <i>Porella compressa?</i> (P), <i>Parasmittina trispinosa</i> (R) and <i>Diazona violacea</i> (P). <i>Echinus esculentus</i> (F), <i>Labrus mixtus</i> (P).	CR.MCR.EcCr.CarSwi.LgAs	RF:ST, RF:BR	NS:CS, NS:SP
NSF04_01.02	Silted bedrock (3%), boulders (80%) and cobbles (17%).	Rock supporting <i>Caryophyllia smithii</i> (C), cream papillate sponge (R), <i>Alcyonium digitatum</i> (R), <i>Swiftia pallida</i> (R), hydroids (O) including <i>Nemertesia ramosa</i> , <i>Porella compressa</i> (F), <i>Parasmittina trispinosa</i> (R) and <i>Diazona violacea</i> (P). <i>Asterias rubens</i> (P), <i>Echinus esculentus</i> (C), <i>Labrus mixtus</i> (P). Camera skirts bedrock outcrop supporting dense <i>Alcyonium digitatum</i> (where A).	CR.MCR.EcCr.FaAlCr.C ar, CR.MCR.EcCr.FaAlCr.A dig	RF:ST	NS:SP
NSF04_01.03	Probably sandy mud, initially with scattered cobbles (overall 2%) and pebbles (overall 1%).	Moderate density of mostly small megafaunal burrows including possibly small <i>Nephrops norvegicus</i> (F). Hydroids (R), <i>Alcyonium digitatum</i> (R), <i>Caryophyllia smithii</i> (O), <i>Turritella communis</i> (F), Crinoidea spp. (O), <i>Echinus esculentus</i> (P), Pleuronectiformes sp. (P).	SS.SMu.CFiMu.SpnMeg		BM:SB
NSF04_01.04	Bedrock slope and cliff	Poor visibility. <i>Alcyonium digitatum</i> (F), <i>Caryophyllia smithii</i> (C), <i>Luidia ciliaris</i> (F), <i>Echinus esculentus</i> (P).	CR.MCR.EcCr.FaAlCr.C ar	RF:BR	
NSF04_02.01	Muddy sand with sparsely scattered cobbles (5%) and pebbles (3%).	Sediment with sparse small megafaunal burrows and <i>Cerianthus lloydii</i> (F). Stones with <i>Parasmittina trispinosa?</i> (R), <i>Caryophyllia smithii</i> (O) and pink encrusting coralline algae (R). Discarded tyre.	SS.SMu.CSaMu		
NSF04_02.02	Silted bedrock (99%) and boulders (1%).	Rock encrusted with pink coralline algae (R) and <i>Parasmittina trispinosa</i> (R) and supporting <i>Caryophyllia smithii</i> (C, locally A), hydroids (F) and sparse foliose red algae (R). <i>Echinus esculentus</i> (F)	CR.MCR.EcCr.FaAlCr.C ar	RF:BR	
NSF04_02.03	Silted bedrock (48%) and boulders (48%) on gravelly, muddy sand (4%)	Rock encrusted with pink coralline algae (R), yellow sponge (R) and <i>Parasmittina trispinosa</i> (R) and supporting <i>Caryophyllia smithii</i> (locally F), hydroids (O), <i>Metridium dianthus?</i> (R) and foliose red algae (C, locally A), <i>Desmarestia</i> sp.? (R), <i>Saccharina latissima</i> (O) and possibly <i>Laminaria hyperborea</i> (R). <i>Marthasterias glacialis</i> (P), <i>Asterias rubens</i> (F), <i>Luidia ciliaris</i> (F), <i>Echinus esculentus</i> (C)	IR.HIR.KFaR.FoR	RF:ST, RF:BR	

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
NSF04_02.04	Silted bedrock slope (45%) and boulders (45%) on gravelly, muddy sand (10%).	Rock supporting <i>Caryophyllia smithii</i> (C) and hydroids (O). <i>Asterias rubens</i> (P), <i>Echinus esculentus</i> (F)	CR.MCR.EcCr.FaAlCr.Car	RF:ST, RF:BR	
NSF04_02.05	Muddy sand with scattered gravel (10%).	Sediment with sparse small megafaunal burrows and <i>Cerianthus lloydii</i> (C). <i>Caryophyllia smithii</i> (O), <i>Pecten maximus</i> (O), <i>Ophiura ophiura</i> (F), <i>Echinus esculentus</i> (F).	SS.SMu.CSaMu		
NSF04_02.06	Sandy mud or muddy sand.	Fairly light density of megafaunal burrowers, probably including <i>Calocaris macandreae</i> (P), and small mounds and polychaete casts. <i>Cerianthus lloydii</i> (F), <i>Caryophyllia smithii</i> (O), <i>Turritella communis</i> shells (P, occupancy unknown), <i>Amphiura</i> spp. (A), <i>Ophiura ophiura</i> (O), small teleost sp. (P).	SS.SMu.CFiMu.SpnMeg		BM:SB
NSF04_03.01	Sandy mud or muddy sand with scattered silted cobbles (15%) and sparse boulders and small bedrock outcrops (both <1%).	Cobbles supporting little life apart from hydroids (O) and <i>Caryophyllia smithii</i> (R). The sparse boulders and bedrock with hydroids (F), <i>C. smithii</i> (C locally), <i>Swiftia pallida</i> (C locally) and <i>Ophiura albida</i> (P). <i>Metridium dianthus</i> (P), <i>Munida rugosa</i> (O), <i>Turritella communis</i> shells (P, occupancy uncertain), <i>Asterias rubens</i> (P), <i>Echinus esculentus</i> (P). Sediment with very sparse small burrows and <i>Amphiura</i> spp. (P).	SS.SMu.CSaMu, CR	RF:ST	NS:SP
NSF04_03.02	Sandy mud with sparsely scattered boulders (<1%) and patches of scattered cobbles (2%), pebbles (<1%) and gravel (<1%).	Fairly light density of small megafaunal burrows, as well as those of <i>Nephrops norvegicus</i> (C), <i>Pennatula phosphorea</i> (O) and <i>Cerianthus lloydii</i> (O). Stones support hydroids (O, locally C), <i>Caryophyllia smithii</i> (O, locally C). <i>Munida rugosa</i> (O), <i>Liocarcinus</i> sp. (P), <i>Turritella communis</i> shells (P, occupation uncertain), <i>Callionymus</i> sp. (O).	SS.SMu.CFiMu.SpnMeg		BM:SB
NSF04_03.03	Silted bedrock (35%) and boulders (65%).	Rock supporting <i>Caryophyllia smithii</i> (A), <i>Swiftia pallida</i> (F), hydroid patches (F) including <i>Nemertesia antennina</i> , <i>Parasmittina trispinosa</i> (R), foliose red algae (R) and encrusting pink coralline algae (R). <i>Echinus esculentus</i> (F), <i>Labrus mixtus</i> (P).	CR.MCR.EcCr.CarSwi.LgAs	RF:ST, RF:BR	NS:CS, NS:SP

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
NSF04_03.04	Silted bedrock (60%), boulders (20%) and cobbles (20%).	Rock encrusted with pink coralline algae (R) and <i>Parasmittina trispinosa</i> (R) and supporting <i>Caryophyllia smithii</i> (F), hydroids (F), foliose red algae (A) and <i>Saccharina latissima</i> (R). <i>Echinus esculentus</i> (F).	IR.HIR.KFaR.FoR	RF:ST, RF:BR	
NSF04_04	Muddy sand grading into sandy mud.	Sediment lightly burrowed by small megafaunal burrows, probably including <i>Calocaris macandreae</i> (P), as well as <i>Nephrops norvegicus</i> (C) and supporting <i>Cerianthus lloydii</i> (F). <i>Munida rugosa</i> (O), <i>Pecten maximus</i> (O), small teleost sp. (P). Dense <i>Laminaria hyperborea</i> frond debris towards end of run.	SS.SMu.CFiMu.SpnMeg		BM:SB
NSF04_05.01	Gravelly (15%), pebbly (5%) muddy sand with sparsely scattered cobbles (<1%) and small bedrock outcrops (<1%).	Rock supporting hydroids (R). <i>Cerianthus lloydii</i> (F), <i>Turritella communis</i> shells (occupancy unknown), <i>Asterias rubens</i> (P).	SS.SSa.CMuSa		
NSF04_05.02	Silted bedrock with patches of boulders (15%), some scattered on muddy sand (5%).	Rock supporting <i>Axinella infundibuliformis</i> (R), <i>Haliclona urceolus?</i> (R), <i>Caryophyllia smithii</i> (C), <i>Alcyonium digitatum</i> (F), <i>Swiftia pallida</i> (O), hydroids (O) including <i>Nemertesia antennina</i> , <i>Parasmittina trispinosa</i> (R) and <i>Diazona violacea</i> (P). <i>Calliostoma zizyphinum</i> (P), <i>Asterias rubens</i> (P), <i>Henricia</i> sp. (P).	CR.MCR.EcCr.CarSwi.LgAs	RF:ST, RF:BR	NS:CS, NS:SP
NSF04_05.03	Gravelly (15%), muddy sand with sparsely scattered cobbles (1%).	<i>Cerianthus lloydii</i> (P), hydroids (R), <i>Alcyonium digitatum</i> (R), <i>Caryophyllia smithii</i> (O), <i>Turritella communis</i> shells (occupancy unknown), <i>Asterias rubens</i> (P), small holes in sediment.	SS.SSa.CMuSa		
NSF04_05.04	Silted bedrock (40%) with patches of boulders (40%) and cobbles (15%), some scattered on muddy sand (5%).	Rock supporting <i>Axinella infundibuliformis</i> (R), yellow/cream encrusting sponge (R), <i>Caryophyllia smithii</i> (F), <i>Alcyonium digitatum</i> (O), <i>Swiftia pallida</i> (F, locally C), turf of mostly short hydroids (C) but including <i>Nemertesia antennina</i> , <i>Securiflustra securifrons?</i> (P), <i>Parasmittina trispinosa</i> (R) and <i>Ascidia virginea</i> (P). <i>Asterias rubens</i> (F), <i>Henricia</i> sp. (P), <i>Luidia ciliaris</i> (F), <i>Echinus esculentus</i> (F).	CR.HCR.XFa.SwiLgAs	RF:ST, RF:BR	NS:MT, NS:SP

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
NSF04_05.05	Gravelly (45%), muddy sand with sparsely scattered pebbles (1%), cobbles (1%) and boulders (<1%).	<i>Pennatula phosphorea</i> (P), <i>Cerianthus lloydii</i> (P), hydroids (R), <i>Caryophyllia smithii</i> (O), Paguridae sp. (O), <i>Turritella communis</i> shells (occupancy unknown), <i>Pecten maximus</i> (O), <i>Luidia ciliaris</i> (P), very sparse small, megafaunal burrows.	SS.SMu.OMu		
NSF04_06.01	Mud.	Moderate density of small megafaunal burrows. <i>Turritella communis</i> shells (P, occupancy unknown).	SS.SMu.CFiMu.SpnMeg		BM:SB
NSF04_06.02	Silted bedrock (60%), boulders (15%) and mud patches (25%).	Rock supporting <i>Caryophyllia smithii</i> (C), <i>Metridium dianthus</i> (R), <i>Swiftia pallida</i> (O, locally F) and hydroids (F). <i>Munida rugosa</i> (O), <i>Leptometra celtica</i> (C), Ophiuroidea spp. (small patches where S), <i>Luidia ciliaris</i> (F). Mud with moderate density of small megafaunal burrows and <i>Turritella communis</i> (C).	CR.MCR.EcCr.CarSwi.LgAs, SS.SMu.CFiMu.SpnMeg	RF:ST, RF:BR	BM:SB, NS:CS, NS:SP, LC
NSF04_06.03	Soft mud.	Fairly densely burrowed mud with <i>Calocaris macandreae</i> (C) and <i>Nephrops norvegicus</i> (F), and supporting <i>Virgularia mirabilis</i> (F) and <i>Pennatula phosphorea</i> (P). <i>Munida rugosa</i> (P), <i>Pecten maximus</i> (P).	SS.SMu.CFiMu.SpnMeg		BM:SB
NSF04_06.04	Silted bedrock (25%), boulders (5%) and cobbles (20%) on mud and with mud patches (50%).	Rock supporting <i>Axinella infundibuliformis/Pkakellia ventilabrum?</i> (R), <i>Caryophyllia smithii</i> (F, locally A), <i>Alcyonium digitatum</i> (R), <i>Swiftia pallida</i> (F) and hydroid patches (O) including <i>Tubularia indivisa</i> (locally S). <i>Leptometra celtica</i> (C in patches), <i>Henricia</i> sp. (P), Ophiuroidea spp. (small patches where A), <i>Echinus esculentus</i> (F), <i>Labrus mixtus?</i> (P). Mud with moderate density of small megafaunal burrows.	CR.MCR.EcCr.CarSwi.LgAs, SS.SMu.CFiMu.SpnMeg	RF:ST, RF:BR	BM:SB, NS:CS, NS:SP, LC
NSF04_06.05	Soft mud, boulders (<1%).	Fairly densely burrowed mud with <i>Calocaris macandreae</i> (C) and <i>Nephrops norvegicus</i> (F), and supporting <i>Virgularia mirabilis</i> (O) and <i>Pennatula phosphorea</i> (O). <i>Alcyonium digitatum</i> (R), <i>Cerianthus lloydii</i> (P), <i>Swiftia pallida</i> (R), <i>Caryophyllia smithii</i> (R), <i>Munida rugosa</i> (O), <i>Cancer pagurus</i> (P), <i>Turritella communis</i> (P), <i>Anseropoda placenta</i> (P), <i>Glyptocephalus cyanoglossus?</i> (P). Cardboard box.	SS.SMu.CFiMu.SpnMeg		BM:SB, NS:SP

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
NSF04_06.06	Silted bedrock (30%), boulders (10%) and cobbles (10%) on mud (50%).	Rock supporting <i>Caryophyllia smithii</i> (F, locally C), <i>Metridium dianthus</i> (O), <i>Alcyonium digitatum</i> (O, locally F), <i>Swiftia pallida</i> (F) and hydroid patches (O) including <i>Tubularia indivisa</i> (locally S) and <i>Parasmittina trispinosa</i> (R). <i>Munida rugosa</i> (O), <i>Labrus mixtus</i> ? (P).	CR.MCR.EcCr.CarSwi.LgAs, SS.SMu.OMu	RF:ST, RF:BR	NS:CS, NS:SP
NSF04_06.07	Mud, sandy and with some scattered gravel initially in transitional area.	Mud lightly burrowed by small megafaunal burrowers. <i>Alcyonium digitatum</i> (R), <i>Caryophyllia smithii</i> (R), <i>Turritella communis</i> shells (occupancy unknown).	SS.SMu.CFiMu.SpnMeg		BM:SB
NSF04_07.01	Muddy sediment (57%) with gravel (15%), pebbles (5%) and silted cobbles (20%), boulders (2%) and small bedrock outcrops (1%).	Stones with hydroids (O), Sagartiidae sp. (F), <i>Metridium dianthus</i> (O), <i>Caryophyllia smithii</i> (R), <i>Sabella pavonina</i> (P) and <i>Novocrania anomala</i> (C locally). Sediment with <i>Cerianthus lloydii</i> (O) and possibly <i>Amphiura</i> spp. (P). Caridea sp. (F), <i>Munida</i> spp. (F), Crinoidea spp. (F), Ophiuroidea sp. (P), <i>Echinus esculentus</i> (P).	SS.SMu.OMu, CR.LCR	RF:ST	
NSF04_07.02	Silted bedrock (35%) and boulders (45%) locally in steep slopes and patches of cobbles (10%) on mud (10%).	Rock supporting <i>Axinella infundibuliformis/Phakellia ventilabrum</i> (O), <i>Polymastia boletiformis</i> ? (P), thick yellow encrusting sponge (R), <i>Iophon nigricans</i> ? (R), <i>Metridium dianthus</i> (O), <i>Caryophyllia smithii</i> (C locally), <i>Swiftia pallida</i> (R, F locally), hydroid patches (O), <i>Sabella pavonina</i> (F, locally C) and <i>Novocrania anomala</i> (C locally). <i>Caridea</i> sp. (O), <i>Munida</i> spp. (O), Crinoidea spp. (O), <i>Ophiocomina nigra</i> (A in small patches), <i>Echinus esculentus</i> (F).	CR.HCR.DpSp.PhaAxi	RF:ST, RF:BR	NS:DS
NSF04_07.03	Mud.	Moderate density of megafaunal burrows including <i>Calocaris macandreae</i> (C) and possibly small <i>Nephrops norvegicus</i> (C). <i>Cerianthus lloydii</i> (P), <i>Munida rugosa</i> (P), <i>Pecten maximus</i> (P),	SS.SMu.CFiMu.SpnMeg		BM:SB
NSF04_07.04	Silted cobbles (25%) and boulders (15%) on muddy sediment (60%).	Stones with <i>Suberites</i> sp.? (P), hydroids (F), <i>Caryophyllia smithii</i> (F) and <i>Swiftia pallida</i> (F). <i>Munida</i> spp. (F), Crinoidea spp. (F), <i>Echinus esculentus</i> (P). Mud with sparse burrows.	SS.SMu.OMu, CR.MCR.EcCr.CarSwi.LgAs	RF:ST	NS:CS, NS:SP

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
NSF04_08.01	Bedrock (75%) with boulders (5%) and patches of mainly cobbles (15%) on gravelly sand (5%).	Rock encrusted with pink coralline algae (O) and <i>Parasmittina trispinosa</i> (R) and supporting foliose red algal turf (A), <i>Alcyonium digitatum</i> (F) and <i>Caryophyllia smithii</i> (C locally). Hydroids (O), <i>Porania pulvillus</i> (P), <i>Asterias rubens</i> (P), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (F).	IR.HIR.KFaR.FoR	RF:ST, RF:BR	
NSF04_08.02	Boulders.	Rock encrusted with pink coralline algae (C) and <i>Parasmittina trispinosa</i> (R) and supporting foliose red algae (O), <i>Alcyonium digitatum</i> (O) and <i>Caryophyllia smithii</i> (C). Hydroids (P), <i>Metridium dianthus</i> (O), <i>Calliostoma zizyphinum</i> (P), <i>Echinus esculentus</i> (F).	CR.MCR.EcCr.FaAlCr.C ar	RF:ST	
NSF04_08.03	Bedrock (45%) with boulders (35%) and cobbles (15%), locally on gravelly sand (4%) with pebbles (1%).	Rock encrusted with pink coralline algae (C) and <i>Parasmittina trispinosa</i> (R) and supporting foliose red algal turf (A), <i>Alcyonium digitatum</i> (R) and <i>Caryophyllia smithii</i> (C locally). Hydroids (O) including <i>Abietinaria abietina</i> , <i>Porania pulvillus</i> (O), <i>Marthasterias glacialis</i> (P), <i>Asterias rubens?</i> (P), <i>Luidia ciliaris</i> (F), <i>Echinus esculentus</i> (F), <i>Labrus mixtus?</i> (O).	IR.HIR.KFaR.FoR	RF:ST, RF:BR	
NSF04_09.01	Boulders (75%) and cobbles (20%) on gravelly sand (5%).	Rock encrusted with pink coralline algae (C) and <i>Parasmittina trispinosa</i> (R) and supporting foliose red algal turf (A) and <i>Caryophyllia smithii</i> (C locally). <i>Porania pulvillus</i> (P), <i>Asterias rubens</i> (F), <i>Echinus esculentus</i> (P).	IR.HIR.KFaR.FoR	RF:ST, RF:BR	
NSF04_09.02	Bedrock (50%) and boulders (50%).	Rock encrusted with pink coralline algae (C), thick yellow sponge (R) and <i>Parasmittina trispinosa</i> (R) and supporting foliose red alga (O, locally denser) including <i>Delesseria sanguinea</i> , <i>Alcyonium digitatum</i> (R) and <i>Caryophyllia smithii</i> (A). Hydroids (O) including <i>Abietinaria abietina</i> , <i>Calliostoma zizyphinum</i> (P), <i>Marthasterias glacialis</i> (P), <i>Asterias rubens</i> (F), <i>Luidia ciliaris</i> (P), <i>Porania pulvillus</i> (P), <i>Echinus esculentus</i> (C). <i>Swiftia pallida</i> possibly present (R) towards end of run.	CR.MCR.EcCr.FaAlCr.C ar	RF:ST, RF:BR	NS:SP

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
NSF04_09.03	Sandy mud or cohesive muddy sand with scattered gravel (10%) and initially cobbles (2%).	Stones support hydroids (O), <i>Alcyonium digitatum</i> (R), <i>Caryophyllia smithii</i> (locally F), <i>Diazona violacea</i> (P) and possibly <i>Parasmittina trispinosa</i> (R). Sediment with <i>Virgularia mirabilis</i> (O) and sparse small burrows and <i>Nephrops norvegicus</i> burrows towards end (F). <i>Pecten maximus</i> (P), Crinoidea sp. (P), <i>Asterias rubens</i> (P), <i>Echinus esculentus</i> (P), <i>Ascidia mentula?</i> (P).	SS.SMu.CSaMu		
NSF04_09.04	Silted bedrock (85%), boulders (10%) and small muddy sand patches (5%), with bedrock cliff at end.	Rock supporting dense <i>Axinella infundibuliformis/Phakellia ventilabrum</i> (C) and <i>Caryophyllia smithii</i> (C), with <i>Iophon nigricans?</i> (R), <i>Cliona celata?</i> (R), <i>Swiftia pallida</i> (F, locally C), hydroids (F, locally A), <i>Porella compressa?</i> (P) and <i>Diazona violacea</i> (C). <i>Lanice conchilega</i> (P), <i>Echinus esculentus</i> (F).	CR.HCR.XFa.SwiLgAs	RF:ST, RF:BR	NS:MT, NS:SP
NSF04_09.05	Soft mud.	Well-burrowed mud by <i>Calocaris macandreae</i> (C) and <i>Nephrops norvegicus</i> (at least F, 2 animals seen) and supporting dense <i>Funiculina quadrangularis</i> (C, locally A), <i>Cerianthus lloydii</i> (P) and <i>Amphiura</i> spp. (A locally). Teleost sp. (P).	SS.SMu.CFiMu.SpnMeg. Fun		BM:SB, BM:FQ
NSF04_10.01	Mud.	Mud burrowed by <i>Calocaris macandreae</i> (C) and possibly small <i>Nephrops norvegicus</i> (F) and supporting <i>Pennatula phosphorea</i> (F). <i>Caryophyllia smithii</i> (O), <i>Pachycerianthus multiplicatus</i> (P, 1 seen), <i>Cerianthus lloydii</i> (O), hydroids (R) including <i>Nemertesia antennina</i> , <i>Turritella communis</i> (P), and <i>Pecten maximus</i> (O). Sparse stones with <i>Alcyonium digitatum</i> (R), Crinoidea spp. (R), <i>Henricia</i> sp. (R) and possibly <i>Swiftia pallida</i> (R).	SS.SMu.CFiMu.SpnMeg		BM:SB, BM:PM, NS:SP
NSF04_10.02	Silted bedrock with cliffs and some boulders (5%).	Rock supporting <i>Caryophyllia smithii</i> (C), <i>Alcyonium digitatum</i> (F), dense <i>Swiftia pallida</i> (C for most of run), hydroids (O, locally F) including <i>Nemertesia ramosa?</i> , and <i>Porella compressa</i> (P). Crinoidea sp. (R), <i>Echinus esculentus</i> (P).	CR.MCR.EcCr.CarSwi.L gAs	RF:BR	NS:CS, NS:SP
NSF04_10.03	Cohesive muddy sand or sandy mud, possibly as veneer over rock, at least locally.	Sediment with very sparse small burrows and emergent infaunal tubes. <i>Pennatula phosphorea</i> (O), <i>Cerianthus lloydii</i> (F), hydroids (R), <i>Swiftia pallida</i> (P). Camera briefly skirts rock with <i>Alcyonium digitatum</i> (P), hydroids (P) and <i>S. pallida</i> (P). <i>Pecten maximus</i> (P), Crinoidea spp. (O).	SS.SMu.OMu		NS:SP

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
NSF04_10.04	Irregular, silted, outcropping bedrock with mud pockets (5%).	Rock supporting <i>Axinella infundibuliformis</i> (R), <i>Caryophyllia smithii</i> (F), <i>Zoantharia</i> sp. (R), <i>Alcyonium digitatum</i> (F), <i>Swiftia pallida</i> (C for most of run), short scrub of possibly hydroids (C), <i>Metridium dianthus</i> (O), <i>Porella compressa</i> (P). <i>Leptometra celtica</i> (R), <i>Asterias rubens</i> (P), <i>Henricia</i> sp. (P), <i>Echinus esculentus</i> (P), <i>Callionymus</i> sp. (P). Mud pockets with megafaunal burrows.	CR.MCR.EcCr.CarSwi.L gAs	RF:BR	LC
NSF04_10.05	Sandy mud with sparsely scattered cobbles (1%).	Lightly burrowed by small megafaunal species and possibly <i>Nephrops norvegicus</i> (F). <i>Alcyonium digitatum</i> (R), hydroids (R), <i>Caryophyllia smithii</i> (O), <i>Cerianthus lloydii</i> (P), <i>Pecten maximus</i> (P), Crinoidea sp. (P).	SS.SMu.OMu		
NSF04_11.01	Heavily-silted bedrock with scattered cobbles (3%).	Rock supporting <i>Caryophyllia smithii</i> (C), <i>Alcyonium digitatum</i> (R), dense <i>Swiftia pallida</i> (C) and hydroids (F). <i>Echinus esculentus</i> (P).	CR.MCR.EcCr.CarSwi.L gAs	RF:BR	NS:CS, NS:SP
NSF04_11.02	Gravelly (10%) muddy sand.	Sediment cohesive but lightly burrowed by small megafaunal species and possibly small <i>Nephrops norvegicus</i> (C). <i>Pennatula phosphorea</i> (R), <i>Alcyonium digitatum</i> (R), hydroids (R), <i>Caryophyllia smithii</i> (O), <i>Cerianthus lloydii</i> (F), <i>Munida rugosa</i> (O), <i>Liocarcinus</i> sp. (P), <i>Turritella communis</i> (F), <i>Pecten maximus</i> (O), <i>Asterias rubens</i> (O), <i>Mesothuria intestinalis?</i> (P).	SS.SMu.CSaMu		
NSF04_12	Muddy sand with scattered cobbles (1%) and boulders (1%).	Sediment fairly lightly burrowed by megafaunal burrowers but moderate density locally and including <i>Nephrops norvegicus</i> (F) and probably <i>Calocaris macandreae</i> (P). <i>Pennatula phosphorea</i> (R), <i>Cerianthus lloydii</i> (R), Sagartiidae sp. (P), <i>Munida rugosa</i> (O), Paguridae sp. (R), <i>Turritella communis</i> (F, at least locally), <i>Pecten maximus</i> (R), Crinoidea spp. (F), <i>Henricia</i> sp. (P), <i>Asterias rubens</i> (P), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (P), teleost sp. (O), <i>Callionymus</i> sp. (R), Scorpaeniformes sp. (P), infaunal tubes (P). Stones with hydroid turf (C) and <i>Caryophyllia smithii</i> (P).	SS.SMu.CFiMu.SpnMeg		BM:SB

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
NSF04_13.01	Bedrock (70%) including cliff and boulders (5%) and cobbles (15%) with sand (5%) and gravel (5%) infill.	Rock encrusted with pink coralline algae (R) and supporting sponges including <i>lophon nigricans?</i> (R) and <i>Haliclona</i> sp. (R), hydroids (F, locally C) including <i>Nemertesia antennina</i> (C locally), <i>Alcyonium digitatum</i> (C), <i>Caryophyllia smithii</i> (F), <i>Corynactis viridis</i> (locally C), foliose red algae (F) and <i>Dictyota dichotoma?</i> (R). Crinoidea spp. (F), <i>Crosaster papposus</i> (P), <i>Marthasterias glacialis</i> (P), <i>Asterias rubens</i> (F), <i>Henricia</i> sp. (P), <i>Echinus esculentus</i> (F), solitary ascidian sp. (P).	CR.MCR.EcCr.CarSp	RF:ST, RF:BR	
NSF04_13.02	Bedrock (25%), boulders (10%) and cobbles (35%) on gravelly sediment (30%)	Rock encrusted with pink coralline algae (R) and supporting <i>lophon nigricans?</i> (R), hydroids (O, possibly F), <i>Alcyonium digitatum</i> (F) and <i>Caryophyllia smithii</i> (A). <i>Calliostoma zizyphinum</i> (P), <i>Asterias rubens</i> (P), <i>Echinus esculentus</i> (C).	CR.MCR.EcCr.FaAlCr.C ar	RF:ST, RF:BR	
NSF04_13.03	Gravelly (20%) muddy sand.	<i>Caryophyllia smithii</i> (locally F), <i>Pecten maximus</i> (P), <i>Ophiura albida</i> (P).	SS.SSa.CMuSa		
NSF04_13.04	Bedrock.	Rock supporting <i>lophon nigricans?</i> (R), yellow encrusting sponge (R), <i>Parasmittina trispinosa?</i> (R), <i>Caryophyllia smithii</i> (C) and <i>Diazona violacea</i> (C). Crinoidea spp. (O), <i>Marthasterias glacialis?</i> (P), <i>Porania pulvillus?</i> (P).	CR.MCR.EcCr.FaAlCr.C ar	RF:BR	
NSF04_14.01	Scattered, silted boulders (25%), dense locally, and cobbles (5%) on muddy sand.	Stones support hydroids (where C), <i>Caryophyllia smithii</i> (where F) and <i>Metridium dianthus</i> (O). Sediment with fairly sparse megafaunal burrows including possibly small <i>Nephrops norvegicus</i> (F). <i>Pennatula phosphorea</i> (O), <i>Munida rugosa</i> (F), <i>Turritella communis</i> shells (P, occupancy unknown), <i>Echinus esculentus</i> (F), <i>Callionymus</i> sp. (P), teleost sp. (P). Discarded trawl net.	SS.SMu.CFiMu.SpnMeg, CR.LCR	RF:ST	BM:SB
NSF04_14.02	Sandy mud.	Moderate density of megafaunal burrows including <i>Nephrops norvegicus</i> (C) and probably <i>Calocaris macandreae</i> (P). <i>Pennatula phosphorea</i> (O), <i>Munida rugosa</i> (P), <i>Turritella communis</i> shells (P, occupancy uncertain), <i>Callionymus</i> sp.? (P), <i>Glyptocephalus cyanoglossus?</i> (P).	SS.SMu.CFiMu.SpnMeg		BM:SB

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
NSF04_15.01	Sandy mud with small bedrock outcrop (<1%).	Mud with moderately dense megafaunal burrows including <i>Calocaris macandreae</i> (C) and <i>Nephrops norvegicus</i> (F, 1 animal seen). <i>Turritella communis</i> shells (P, but occupancy unknown).	SS.SMu.CFiMu.SpnMeg		BM:SB
NSF04_15.02	Steep, silted bedrock slope and cliff with boulders (1%).	Rock supporting <i>Caryophyllia smithii</i> (C), <i>Alcyonium digitatum</i> (O), <i>Swiftia pallida</i> (F), hydroids (O). <i>Asterias rubens</i> (F), <i>Echinus esculentus</i> (F), small shoal of teleosts (P).	CR.MCR.EcCr.CarSwi.LgAs	RF:BR	NS:CS, NS:SP
NSF04_15.03	Possibly muddy sand, initially rippled, becoming gravelly (20%).	Very poor visibility and no photographs. Sparse <i>Alcyonium digitatum</i> (R).	SS.SSa.CMuSa		
NSF04_15.04	Steep bedrock slope.	Rock supporting <i>Caryophyllia smithii</i> (C), <i>Alcyonium digitatum</i> (F), yellow encrusting sponge (R), <i>Swiftia pallida</i> (F), hydroids (O). Crinoidea spp. (O), <i>Echinus esculentus</i> (C), <i>Diazona violacea</i> (F).	CR.MCR.EcCr.CarSwi.LgAs	RF:BR	NS:CS, NS:SP
NSF04_15.05	Gravelly (25%) muddy sand with sparsely scattered cobbles (<1%).	Stones supporting <i>Alcyonium digitatum</i> (R). <i>Caryophyllia smithii</i> (R), <i>Marthasterias glacialis</i> (P), <i>Luidia ciliaris</i> (P).	SS.SSa.CMuSa		
NSF04_17.01	Silted bedrock (15%) and boulders (50%) and cobbles (25%) on gravelly (4%) muddy sand (4%) with pebbles (2%).	Rock supporting <i>Axinella infundibuliformis</i> (R), <i>Caryophyllia smithii</i> (C), <i>Metridium dianthus</i> (R), <i>Alcyonium digitatum</i> (C), <i>Swiftia pallida</i> (F, at least in patches), hydroids (O) including <i>Nemertesia antennina</i> , <i>Porella compressa</i> (O, locally F), <i>Parasmittina trispinosa</i> (R), <i>Clavelina lepadiformis</i> (P) and pink encrusting coralline algae (R). Crinoidea spp. (P), <i>Asterias rubens</i> (P), <i>Henricia</i> sp. (P), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (F), <i>Diazona violacea</i> (F), <i>Labrus mixtus</i> (P).	CR.MCR.EcCr.CarSwi.LgAs	RF:ST, RF:BR	NS:CS, NS:SP
NSF04_17.02	Mud.	Fairly densely burrowed mud with <i>Calocaris macandreae</i> (C) and <i>Nephrops norvegicus</i> (F), and supporting <i>Funiculina quadrangularis</i> (F), <i>Pennatula phosphorea</i> (R) and <i>Cerianthus lloydii</i> (F). <i>Turritella communis</i> (P), <i>Pecten maximus</i> (O), small teleost sp. (P).	SS.SMu.CFiMu.SpnMeg.Fun		BM:SB, BM:FQ

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LA1_1.01	Mosaic of boulders (10%) and cobbles (25%) with mixed sediment (65%) of coarse sand, gravel, pebbles and shells.	Stones encrusted with a yellow sponge (R), serpulid worms (A) including <i>Spirobranchus</i> spp. (A locally), and <i>Balanus balanus</i> (P) and supporting a fauna of ascidians including <i>Ascidia virginea</i> (F), <i>A. mentula</i> (O) and <i>Diazona violacea</i> (C), <i>Salmacina dysteri/Filograna implexa</i> (R) and hydroids (F) including <i>Nemertesia antennina</i> . <i>Munida rugosa</i> (F), Paguridae sp. (P), <i>Antedon</i> spp. (C), <i>Asterias rubens</i> (F), <i>Crossaster papposus</i> (P), <i>Henricia</i> sp. (O), <i>Echinus esculentus</i> (C).	SS.SMx.CMx, CR.LCR.BrAs.AntAsH	RF:ST	
LA1_1.02	Bedrock.	Rock encrusted with serpulid worms (A) and yellow sponge (R) and supporting <i>Ascidia virginea</i> and <i>A. mentula</i> (F combined), <i>Diazona violacea</i> (C) and hydroids including <i>Nemertesia antennina</i> (P). <i>Munida rugosa</i> (F), <i>Antedon</i> spp. (F), <i>Echinus esculentus</i> (C).	CR.LCR.BrAs.AntAsH	RF:BR	
LA1_1.03	Mosaic of boulders (10%) and cobbles (25%) with mixed sediment (65%) of sand, gravel, pebbles and shells.	Stones encrusted with a yellow sponge (R), serpulid worms (A and supporting a fauna of ascidians including <i>Ascidia virginea</i> (F) and <i>Diazona violacea</i> (C), and hydroids (F). <i>Urticina</i> sp. (P), <i>Chaetopterus vaiopedatus</i> (C), <i>Munida rugosa</i> (F), <i>Antedon</i> spp. (C), <i>Asterias rubens</i> (P), <i>Crossaster papposus</i> (F), <i>Luidia ciliaris</i> (F), <i>Echinus esculentus</i> (C). Camera crossed 2 subsea cables.	SS.SMx.CMx, CR.LCR.BrAs.AntAsH	RF:ST	
LA1_1.04	Mixed sediment of sand (15%), gravel (60%), pebbles (20%) and shells (5%).	Stones support yellow encrusting sponge (R), hydroids (F) and serpulid worms (A). <i>Munida rugosa</i> (F), <i>Aequipecten opercularis</i> (P), <i>Pecten maximus?</i> (O), <i>Antedon</i> spp. (F), <i>Asterias rubens</i> (P), <i>Crossaster papposus</i> (P), <i>Luidia ciliaris</i> (F), <i>Echinus esculentus</i> (F), <i>Thyonidium drummondii</i> (F), <i>Ascidia mentula</i> (C), <i>A. virginea</i> (F), <i>Diazona violacea</i> (F), <i>Scylliorhinus canicula</i> (P).	SS.SMx.CMx		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LA1_1.05	Substrate partly obscured for much of run but apparently largely a mosaic of <i>Limaria</i> byssal-bound <i>Modiolus</i> shells and silty, shelly sand (with admixture of gravel and pebbles locally).	<i>Limaria hians</i> bed covering around 50% (85% locally) of the seabed overall as a mosaic with sediment. The bed forms a distinct turf in the first half of the run, becoming lagely just bound shell material towards the end of the run. Live <i>Modiolus modiolus</i> will be largely obscured by the turf but where visible suggests an abundance of common. Patchy brittlestar bed with <i>Ophiothrix fragilis</i> (S locally), <i>Ophiocomina nigra</i> (A locally) and <i>Ophiopholis aculeata</i> (A locally). <i>Limaria</i> turf and shells support a hydroid turf (C) with <i>Nemertesia antennina</i> , <i>N. ramosa</i> , <i>Sertularia</i> sp., <i>Rhizocaulus verticillatus</i> , <i>Halecium halecinum</i> and <i>Kirchenpaueria pinnata</i> . <i>Urticina</i> spp. (R), serpulid worms including <i>Spirobranchus</i> spp. (P), <i>Sabella pavonina?</i> (P), <i>Munida rugosa</i> (C), Paguridae sp. (P), <i>Inachus</i> sp. (P), <i>Calliostoma zizyphinum</i> (P), <i>Pecten maximus</i> (R), <i>Antedon</i> spp. (F), <i>Asterias rubens</i> (F), <i>Porania pulvillus</i> (R), <i>Henricia</i> sp. (R), <i>Crossaster papposus</i> (O), <i>Luidia ciliaris</i> (F), <i>Marthasterias glacialis</i> (P), <i>Solaster endeca</i> (P), <i>Echinus esculentus</i> (F), <i>Thyonidium drummondii</i> (C), <i>Ascidia mentula</i> (C, locally A), <i>A. virginea</i> (O), <i>A. conchilega?</i> (P), <i>Polycarpa pomaria</i> (C locally), <i>Corella parallelogramma</i> (P), <i>Ciona intestinalis</i> (P) <i>Scyliorhinus canicula</i> (P). 2 discarded tyres.	SS.SMx.IMx.Lim, SS.SBR.SMus.ModT, SS.SMx.CMx.OphMx	RF:BH	FS:LH, HM:TS
LA2_1.01	Silty gravelly (30%) sand (57%) with shells (3%) and pebbles (10%) increasing along run.	<i>Virgularia mirabilis</i> (O), serpulid worms (F), <i>Munida rugosa</i> (F), <i>Aequipecten opercularis</i> (O), <i>Pecten maximus</i> (P), <i>Antedon</i> spp. (P), <i>Asterias rubens</i> (F), <i>Ascidia mentula</i> (P), <i>Diazona violacea</i> (P), teleost spp. (O). Discard rope or cable, line of active whelk pots.	SS.SMx.CMx		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LA2_1.02	Small bedrock outcrops (<1%), boulders (5%) and varying mix of silty sand (40%), gravel (20%), pebbles (15%), cobbles (10%) and shells (10%).	Rock encrusted with yellow sponge (R), <i>Balanus balanus</i> (P) and serpulid worms (A) including <i>Spirobranchus</i> spp. (P) and supporting hydroids (O) and ascidian fauna of <i>Ascidia mentula</i> (O), <i>A. virginea</i> (F), <i>A. conchilega?</i> (P), <i>Diazona violacea</i> (C) and <i>Clavelina lepadiformis?</i> (P). <i>Urticina</i> sp. (P), <i>Munida rugosa</i> (F), <i>Pecten maximus</i> (P), nudibranch egg string? (P), <i>Antedon</i> spp. (F), <i>Crossaster papposus</i> (F), <i>Asterias rubens</i> (F), <i>Porania pulvillus</i> (O), <i>Echinus esculentus</i> (C), <i>Labrus mixtus?</i> (P).	CR.LCR.BrAs.AmenCio. Ant, SS.SMx.CMx	RF:ST	
LA2_1.03	Mixed substrate of silty sand (10%) with generally dense cover of gravel (40%), pebbles (35%) and shells (15%).	Stones and shells support serpulid worms (A) including <i>Spirobranchus</i> spp. (P) and sparse hydroids (O) including <i>Nemertesia antennina</i> , <i>Chaetopterus variopedatus</i> (F), <i>Lanice conchilega</i> (P), <i>Munida rugosa</i> (F), <i>Atelecyclus rotundatus</i> (P), <i>Aequipecten opercularis</i> (P), <i>Antedon</i> spp. (O), <i>Crossaster papposus</i> (O), <i>Luidia ciliaris</i> (F), <i>Porania pulvillus</i> (O), <i>Asterias rubens</i> (P), <i>Ascidia virginea</i> (F), <i>A. mentula</i> (O), <i>Diazona violacea</i> (F).	SS.SMx.CMx		
LA2_1.04	Bedrock	Rock encrusted with yellow sponge (R), <i>Balanus balanus</i> (P) and serpulid worms (A) including <i>Spirobranchus</i> spp. (P) and supporting hydroids (O), <i>Caryophyllia smithii</i> (C) and ascidian fauna of <i>Ascidia mentula</i> (F), <i>A. virginea</i> (F) and <i>Diazona violacea</i> (P). <i>Munida rugosa</i> (F), <i>Porania pulvillus</i> (P), <i>Echinus esculentus</i> (C).	CR.LCR.BrAs.AmenCio. Ant	RF:BR	
LA2_1.05	Mosaic of bound shell and stones (50%) with medium-coarse sand (45%) with cobbles (5%) and boulders (<1%).	Stones and shell material bound together by <i>Limaria hians</i> . This turf (overall c. 40% cover) and stones support encrusting yellow sponge (R), hydroid turf (C), serpulid worms, and ascidians including <i>Ascidia mentula</i> (C), <i>A. virginea</i> (F), <i>A. conchilega?</i> (P), <i>Ciona intestinalis</i> (P) and <i>Diazona violacea</i> (C). <i>Munida rugosa</i> (F), nudibranch egg string (P), <i>Antedon</i> spp. (F), <i>Crossaster papposus</i> (P), <i>Porania pulvillus</i> (P), <i>Echinus esculentus</i> (F).	SS.SMx.IMx.Lim		FS:LH

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LA2_1.06	Bedrock with sand patches (3%).	Rock encrusted with yellow sponge (R), serpulid worms (A) including <i>Spirobranchus</i> spp. (P) and supporting hydroids (C) and ascidian fauna of <i>Ciona intestinalis</i> (A locally), <i>Ascidia mentula</i> (C), <i>A. virginea</i> (P) and <i>Diazona violacea</i> (P). <i>Munida rugosa</i> (P), <i>Antedon</i> spp. (P), <i>Asterias rubens</i> (P), <i>Echinus esculentus</i> (C).	CR.LCR.BrAs.AmenCio. Ant	RF:BR	
LA2_1.07	Initially well-defined mosaic of bound shell and stones (50%) with medium-coarse sand (50%) becoming more diffuse with smaller patches of byssal-bound material amongst mixed sediment of sand, gravel, pebbles and shells.	<i>Limaria hians</i> turf cover overall c. 40%. Turf and stones support encrusting yellow sponge (R), hydroid turf (C), serpulid worms, and ascidians including <i>Ascidia mentula</i> (C), <i>A. virginea</i> (F) and <i>Diazona violacea</i> (F). <i>Munida rugosa</i> (O), <i>Cancer pagurus</i> (P), <i>Pecten maximus</i> (P), nudibranch egg string? (P), <i>Antedon</i> spp. (F), <i>Asterias rubens</i> (F), <i>Crossaster papposus</i> (F), <i>Echinus esculentus</i> (P), <i>Thyonidium drummondii</i> (F).	SS.SMx.IMx.Lim		FS:LH
LC01.1	Substrate largely obscured by <i>Limaria</i> turf but patches of dense pebbles with gravel and sand visible and mosaics of <i>Limaria</i> turf and coarse sand.	Extensive area of dense <i>Limaria hians</i> turf (100% cover falling to around 25% locally (average c.65%), with some empty <i>Limaria</i> shells exposed. Turf supports rich community including dense ophiuroid bed dominated by <i>Ophiothrix fragilis</i> (S, locally absent) with <i>Ophiocomina nigra</i> (locally C). Visible stones encrusted with pink coralline algae (R) and together with turf supporting foliose red alge (A) dominated by <i>Phycodrys rubens</i> (A), and hydroids (C) including <i>Kirchenpaueria pinnata</i> , <i>Nemertesia antennina</i> (F) and <i>N. ramosa</i> (P), <i>Alcyonium digitatum</i> (O) and <i>Protanthea simplex</i> (R). <i>Urticina</i> sp. (P), <i>Urticina felina</i> (P), Paguridae sp. (P), <i>Aequipecten opercularis</i> (F, C locally), <i>Crossaster papposus</i> (F), <i>Asterias rubens</i> (F), <i>Echinus esculentus</i> (C), <i>Polycarpa pomaria</i> ? (P), <i>Scylliorhinus canicula</i> (P), <i>Callionymus</i> sp. (P), large Gadidae sp. (P), <i>Laminaria hyperborea</i> (O) with <i>Obelia geniculata</i> on fronds.	SS.SMx.IMx.Lim, SS.SMx.OphMx		FS:LH

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LC01.2	Substrate partially obscured by <i>Limaria</i> turf but patches of coarse sand and coarse sand with pebbles, cobbles and boulders.	Forest of <i>Laminaria hyperborea</i> (A) on stones and possibly <i>Limaria hians</i> byssal/stone turf, the latter covering around 40% of the seabed and supporting hydroids (P), <i>Alcyonium digitatum</i> (O) and a foliose red algal turf (A). <i>Laminaria</i> with <i>Obelia geniculata</i> and <i>Steromphala cineraria</i> . <i>Asterias rubens</i> (P), <i>Ophiocomina nigra</i> (C), <i>Ophiothrix fragilis</i> (P), <i>Echinus esculentus</i> (C), pink encrusting coralline algae (R).	SS.SMx.IMx.Lim, IR.MIR.KT.XKTX		FS:LH, TS:KS
LC02	Coarse sand (30%) with dense cobbles (40%) and pebbles (30%).	Dense ophiuroid bed with <i>Ophiothrix fragilis</i> (S) and <i>Ophiocomina nigra</i> (P). <i>Crossaster papposus</i> (F), <i>Asterias rubens</i> (F), <i>Echinus esculentus</i> (F). Stones with serpulid worms (P), <i>Botryllus schlosseri?</i> (R) and pink encrusting coralline algae (R). Subsea cable.	SS.SMx.CMx.OphMx		
LC03	Substrate largely obscured but includes areas of coarse sand with shell gravel and probably <i>Limaria</i> bound pebbles and cobbles.	Extensive area of dense <i>Limaria hians</i> turf locally with continuous cover but largely as a mosaic (c.65% cover) with coarse sediment. Turf supports rich community including ophiuroid bed dominated by <i>Ophiothrix fragilis</i> (S, locally A) with <i>Ophiocomina nigra</i> (locally C). Visible stones encrusted with pink coralline algae (R) and together with turf supporting foliose red alge (A) including <i>Phycodrys rubens</i> (P), and hydroids (C) including <i>Kirchenpaueria pinnata</i> (C), <i>Nemertesia antennina</i> (F) and <i>N. ramosa</i> (P), <i>Alcyonium digitatum</i> (R). <i>Urticina</i> spp. (F), <i>Buccinum undatum</i> (P), <i>Aequipecten opercularis</i> (F), <i>Crossaster papposus</i> (F), <i>Echinus esculentus</i> (C), <i>Ascidiacea</i> spp. (P) including <i>Polycarpa pomaria</i> (P), <i>Scyliorhinus canicula</i> (P), <i>Laminaria hyperborea</i> (O).	SS.SMx.IMx.Lim, SS.SMx.CMx.OphMx		FS:LH

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LC04.01	Substrate largely obscured but includes pebbles and shells bound by <i>Limaria</i> and patches of silty gravelly coarse sand.	Probably extensive cover of <i>Limaria hians</i> turf, although impossible to quantify due to dense cover of ophiuroids including <i>Ophiothrix fragilis</i> (S), <i>Ophiocomina nigra</i> (P) and <i>Ophiopholis aculeata</i> (P). Sharply-defined mosaic of dense ophiuroids and coarse sediment patches, characteristic of <i>Limaria</i> beds, can be seen up to 06:41:00 (HD video); also some empty <i>Limaria</i> shells. Clumped shells and stones can be seen up to 07:12:34 (HD) and some evidence of turf material at 07:22:24. Turf/stone matrix supports rich hydroid fauna for much of run (C) including <i>Kirchenpaueria pinnata</i> (C), <i>Alcyonium digitatum</i> (R), <i>Protanthea simplex</i> (R), serpulid worms (P), pink encrusting coralline algae (O) and foliose red algae (C). <i>Buccinum undatum</i> (O), <i>Aequipecten opercularis</i> (P), <i>Crossaster papposus</i> (P), <i>Asterias rubens</i> (P), <i>Porania pulvillus</i> (O), <i>Echinus esculentus</i> (C), Ascidiacea spp. including <i>Polycarpa pomaria</i> (P), <i>Scyliorhinus canicula</i> (P), <i>Laminaria hyperborea</i> (O). Undersea cable. Boundary location with following biotope uncertain.	SS.SMx.IMx.Lim, SS.SMx.CMx.OphMx		FS:LH
LC04.02	Substrate largely obscured but includes pebbles and shells on silty gravelly sand.	Dense ophiuroid bed dominated by <i>Ophiothrix fragilis</i> (S). Visible stones encrusted with pink coralline algae (R). <i>Echinus esculentus</i> (C), <i>Neopentadactyla mixta</i> ? (O),	SS.SMx.CMx.OphMx		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LC05.01	Substrate largely obscured but includes patches of coarse sand and <i>Limaria</i> bound pebbles, cobbles and shells.	Initially extensive area of dense <i>Limaria hians</i> turf locally with virtually continuous cover but becoming mosaic with coarse sediment (overall perhaps 60% cover). Turf supports ophiuroid bed dominated by <i>Ophiothrix fragilis</i> (S) with <i>Ophiocomina nigra</i> (locally C) and probably <i>Ophiopholis aculeata</i> (P). Visible stones encrusted with pink coralline algae (R) and serpulid worms and together with turf supporting foliose red alge (C, initially A but declining along run) and hydroids (F) including <i>Kirchenpaueria pinnata</i> and <i>Rhizocaulus verticillatus</i> , <i>Alcyonium digitatum</i> (R) and Ascidiacea spp. (P) including <i>Polycarpa pomaria</i> , <i>Urticina</i> sp. (P), <i>Aequipecten opercularis</i> (P), <i>Crossaster papposus</i> (F), <i>Asterias rubens</i> (O), <i>Echinus esculentus</i> (C), <i>Thyonidium drummondii</i> (P), <i>Scyliorhinus canicula</i> (P), <i>Laminaria hyperborea</i> (O) with <i>Obelia geniculata</i> and <i>Halichondria panicea</i> ? Three undersea cables. Boundary location with following biotope uncertain. <i>Limaria</i> turf/stone matrix supporting hydroid patches apparently present at 00:10:17 (HD video) and absent at 00:10:59 (HD).	SS.SMx.IMx.Lim, SS.SMx.CMx.OphMx		FS:LH
LC05.02	Silty sand (30%) with dense pebbles (20%) and cobbles (50%).	Dense ophiuroid bed with <i>Ophiothrix fragilis</i> (S) and <i>Ophiocomina nigra</i> (P). <i>Aequipecten opercularis</i> (F), <i>Crossaster papposus</i> (P), <i>Echinus esculentus</i> (C). Stones with serpulid worms (P) and pink encrusting coralline algae (R). Subsea cable.	SS.SMx.CMx.OphMx		
LC06.01	Substrate largely obscured but includes small patches of gravelly coarse sand and <i>Limaria</i> bound pebbles, cobbles, shells and kelp debris.	Probably extensive cover of <i>Limaria hians</i> bound stones and kelp debris, representing around 75% cover overall. This supports dense cover of ophiuroids including <i>Ophiothrix fragilis</i> (S) and <i>Ophiocomina nigra</i> , hydroids (F), <i>Alcyonium digitatum</i> (R) and foliose red algae (F, initially C). Bound material supporting hydroids can be discerned up to to around 00:05:30 (HD video). Stones encrusted with serpulid worms (P) and pink coralline algae (O). Yellow cushion sponge (R), <i>Aequipecten opercularis</i> (P), <i>Crossaster papposus</i> (P), <i>Echinus esculentus</i> (C), <i>Psammechinus miliaris</i> ? (P), <i>Laminaria hyperborea</i> (O). Boundary location with following biotope highly uncertain.	SS.SMx.IMx.Lim, SS.SMx.CMx.OphMx		FS:LH

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LC06.02	Silty coarse sand with gravel and dense pebbles and cobbles and isolated boulders.	Dense ophiuroid bed with <i>Ophiothrix fragilis</i> (S), <i>Ophiocomina nigra</i> (P) and <i>Ophiopholis aculeata</i> (P). <i>Modiolus modiolus</i> (P, 1 seen), <i>Crossaster papposus</i> (P), <i>Asterias rubens</i> (F), <i>Echinus esculentus</i> (C), <i>Thyonidium drummondii</i> (F). Stones with serpulid worms (P) and <i>Protanthea simplex</i> (C).	SS.SMx.CMx.OphMx		
LC07.01	Dense pebbles (70%), cobbles (15%) and shell (5%) on gravelly sand (10%).	Probably some <i>Limaria hians</i> bound stones present up to at least 00:03:06 (HD video) supporting foliose red algal patches (C initially but F overall) and hydroid patches (O) including <i>Kirchenpaueria pinnata</i> (P) and <i>Nemertesia ramosa</i> (P). Dense ophiuroid bed with <i>Ophiothrix fragilis</i> (S) and <i>Ophiocomina nigra</i> (C locally). Stones encrusted with serpulid worms (C) and pink coralline algae (O). <i>Modiolus modiolus</i> (P, 2 seen), <i>Aequipecten opercularis</i> (P), <i>Crossaster papposus</i> (F), <i>Asterias rubens</i> (P), <i>Echinus esculentus</i> (C), <i>Polycarpa pomaria?</i> (P), <i>Scyliorhinus canicula</i> (P), <i>Laminaria hyperborea</i> (R). Boundary location with following biotope highly uncertain.	SS.SMx.IMx.Lim, SS.SMx.CMx.OphMx		FS:LH
LC07.02	Dense pebbles (70%), cobbles (15%) and shell (5%) on gravelly sand (10%).	Dense ophiuroid bed with <i>Ophiothrix fragilis</i> (S) and <i>Ophiocomina nigra</i> (C locally). <i>Aequipecten opercularis</i> (P), <i>Modiolus modiolus</i> (locally C, 4-5 seen in one frame), <i>Crossaster papposus</i> (F), <i>Henricia</i> sp. (P), <i>Echinus esculentus</i> (C), <i>Thyonidium drummondii</i> (F). Stones with serpulid worms (C) and pink encrusting coralline algae (R). Cable or taut rope.	SS.SMx.CMx.OphMx		
LC08.01	Substrate largely obscured but evidently a mosaic of <i>Limaria hians</i> bound stones and shells (70%) and coarse sand patches (30%).	Stones and shells bound by <i>Limaria hians</i> byssus (70% cover) and supporting dense cover of ophiuroids including <i>Ophiothrix fragilis</i> (S) and <i>Ophiocomina nigra</i> (locally C), hydroids (C) including <i>Kirchenpaueria pinnata</i> (P), <i>Alcyonium digitatum</i> (R) and foliose red algae (A); also park of <i>Laminaria hyperborea</i> (C) with <i>Obelia geniculata</i> . <i>Asterias rubens</i> (P), <i>Echinus esculentus</i> (P).	SS.SMx.IMx.Lim, SS.SMx.CMx.OphMx, IR.MIR.KT.XKTX		FS:LH, TS:KS

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LC08.02	Substrate largely obscured but includes small patches of gravelly coarse sand and <i>Limaria</i> bound pebbles, cobbles, shells and kelp debris.	Probably extensive cover of <i>Limaria hians</i> bound stones and kelp debris, representing around 75% cover overall. This supports dense cover of ophiuroids including <i>Ophiothrix fragilis</i> (S) and <i>Ophiocomina nigra</i> (C locally), hydroids (C) including <i>Nemertesia antennina</i> , <i>N. ramosa</i> , <i>Kirchenpaueria pinnata</i> and <i>Rhizocaulus verticillatus</i> , <i>Alcyonium digitatum</i> (O) and foliose red algae (C, initially A). Bound material supporting hydroids can be discerned up to to around 00:07:21 (HD video). Stones encrusted with serpulid worms (P) and pink coralline algae (R). <i>Halichondria panicea?</i> (P), <i>Asterias rubens</i> (P), <i>Echinus esculentus</i> (C), <i>Psammechinus miliaris?</i> (P), <i>Thyonidium drummondii</i> (P), Ascidiacea spp. (P) including <i>Corella parallelogramma</i> , <i>Laminaria hyperborea</i> (O). Boundary location with following biotope highly uncertain.	SS.SMx.IMx.Lim, SS.SMx.CMx.OphMx		FS:LH
LC08.03	Substrate largely obscured but includes dense pebbles and cobbles on slightly silty coarse sand.	Dense ophiuroid bed with <i>Ophiothrix fragilis</i> (S) and <i>Ophiocomina nigra</i> (C locally). <i>Brachyura</i> sp. (P), <i>Echinus esculentus</i> (C), Stones with serpulid worms (C) and pink encrusting coralline algae (R). Crossed undersea cable at two points.	SS.SMx.CMx.OphMx		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LC09.01	Substrate largely obscured but includes <i>Limaria</i> bound pebbles, cobbles, shells and kelp debris with small patches of gravelly coarse sand.	Probably extensive cover of <i>Limaria hians</i> bound stones and kelp debris, representing around 60% cover overall, reducing from around 80% to 40% along run. Bound material forms a rather loosely-defined mosaic with coarse sand patches; dead <i>Limaria</i> shell material present. The bound material supports dense cover of ophiuroids including <i>Ophiothrix fragilis</i> (S) and <i>Ophiocomina nigra</i> (C locally), hydroids (C) including <i>Nemertesia ramosa</i> (F), <i>Kirchenpaueria pinnata</i> and <i>Rhizocaulus verticillatus</i> , <i>Alcyonium digitatum</i> (O) and foliose red algae (C). Clumps of possibly bound material can be discerned up to to around 00:04:26 (HD video). Stones encrusted with serpulid worms (P) and pink coralline algae (R). <i>Protanthea simplex</i> (P), <i>Aequipecten opercularis</i> (F), <i>Asterias rubens</i> (P), <i>Echinus esculentus</i> (C), <i>Psammechinus miliaris</i> (P), Ascidiacea spp. (P) including <i>Ascidia mentula</i> , teleost sp. (P), <i>Laminaria hyperborea</i> (O). Boundary location with following biotope uncertain. The <i>Limaria</i> bed may extend beyond this recorded boundary position.	SS.SMx.IMx.Lim, SS.SMx.CMx.OphMx		FS:LH
LC09.02	Coarse sand and gravel with dense pebbles and cobbles (largely obscured) and isolated boulders.	Dense ophiuroid bed with <i>Ophiothrix fragilis</i> (S), <i>Ophiocomina nigra</i> (P) and <i>Ophiopholis aculeata</i> (P). <i>Protanthea simplex</i> (P), <i>Munida rugosa</i> (P), <i>Pagurus bernhardus</i> (P), <i>Crossaster papposus</i> (F), <i>Asterias rubens</i> (F), <i>Echinus esculentus</i> (F), <i>Thyonidium drummondii</i> (P), <i>Ciona intestinalis?</i> (P), teleost sp. (O). Stones with serpulid worms (C) and pink encrusting coralline algae (R). Around 9 <i>Modiolus modiolus</i> were seen along the run, evidently at a density of common at two spot locations, so may be indicative of a low density <i>Modiolus</i> bed, but insufficient evidence to record as such. Linear scar at end of run made up of coarse sand with stones largely removed; around 30 cm in width and at least a few metres in length - possibly related to cable laying operations for example.	SS.SMx.CMx.OphMx		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LC10	Much of substrate obscured but mixed and apparently around 40% cobbles, 30% pebbles and gravelly (10%) sand (20%).	Much of the stone material (around 40% of the seabed) appears clumped (possibly by <i>Limaria hians</i>) forming an indistinct mosaic with sand patches. The clumps support a rich hydroid fauna (C) including <i>Halecium halecinum?</i> <i>Kirchenpaueria pinnata</i> and <i>Rhizocaulus verticillatus</i> , <i>Ascidia mentula</i> (F) and a red algal turf (C) of filiform (C) and foliose (O) species. Stones are encrusted with serpulid worms, <i>Balanus</i> spp. and pink coralline algae (R). <i>Munida rugosa</i> (F), <i>Aequipecten opercularis</i> (C), <i>Echinus esculentus</i> (C), <i>Thyonidium drummondii</i> (P), <i>Saccharina latissima</i> (P, possibly drift).	SS.SMx.IMx.Lim		FS:LH
LC11	Mosaic of coarse sand (35%) and <i>Limaria</i> turf (65%) obscuring cobbles and pebbles.	Well-formed, clean-edged mosaic of <i>Limaria hians</i> bound stones (65%) with sand, with <i>Limaria</i> gallery apertures visible. The stone/byssal matrix supports a rich hydroid (C) and red algal (A) turf including <i>Nemertesia ramosa</i> (F), <i>N. antennina</i> , <i>Halecium halecinum?</i> , <i>Kirchenpaueria pinnata</i> and <i>Rhizocaulus verticillatus</i> , foliose red algae (O) and filiform red algae (A), as well as <i>Alcyonium digitatum</i> (R) and solitary ascidians (F) including <i>Ascidiella aspersa</i> (F), <i>Corella parallelogramma</i> (P) and <i>Polycarpa pomaria?</i> (P). Stones are lightly encrusted with serpulid worms and <i>Balanus</i> spp. <i>Munida rugosa</i> (F), <i>Pagurus bernhrdus</i> (P), <i>Aequipecten opercularis</i> (F), <i>Antedon</i> spp. (O), <i>Asterias rubens?</i> (P), <i>Marthasteri glacialis</i> (P), <i>Henricia</i> sp. (P), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (C), small teleost sp. (P), <i>Saccharina latissima</i> (O).	SS.SMx.IMx.Lim		FS:LH

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LC12.01	Mosaic of coarse sand (50%) and <i>Limaria</i> turf (50%) obscuring cobbles and pebbles; isolated boulders (<1%).	Well-formed, clean-edged mosaic of <i>Limaria hians</i> bound stones (50%) with sand, with <i>Limaria</i> gallery apertures visible. The stone/byssal matrix supports a luxuriant hydroid (C) and red algal (A) turf including <i>Nemertesia ramosa</i> (F) and <i>Halecium halecinum?</i> , foliose red algae (R) and filiform red algae (A) dominated by probably <i>Bonnemaisonia asparagoides</i> (A), as well as <i>Alcyonium digitatum</i> (R) and solitary ascidians including <i>Ascidiella aspersa</i> and <i>Ascidia mentula</i> . Stones are lightly encrusted with serpulid worms and pink coralline algae (R). <i>Lanice conchilega</i> (P), <i>Cancer pagurus</i> (P), <i>Antedon</i> spp. (O), <i>Asterias rubens</i> (F), <i>Marthasteri glacialis</i> (F), <i>Echinus esculentus</i> (C), <i>Saccharina latissima</i> (O), <i>Laminaria hyperborea</i> (O) with <i>Obelia geniculata</i> .	SS.SMx.IMx.Lim		FS:LH
LC12.02	Boulders (25%) and cobbles (35%) on medium-coarse sand (40%).	Stones, probably sand-scoured, support park of <i>Laminaria hyperborea</i> (C) with <i>Obelia geniculata</i> , pink encrusting coralline algae (R), hydroids (O) and serpulid worms (P). <i>Antedon</i> spp. (F), <i>Echinus esculentus</i> (C). Isolated nests of <i>Limaria hians</i> may well be present but not seen.	IR.HIR.KSed.XKScrR		
LC12.03	Coarse sand patches (30%) and <i>Limaria</i> turf (70%) obscuring cobbles and pebbles; mosaic of two initially.	Mosaic of <i>Limaria hians</i> bound stones with sand initially but becoming almost continuous turf cover (overall 70%). The stone/byssal matrix supports a luxuriant hydroid (C) and red algal (A) turf including <i>Nemertesia ramosa</i> (F), <i>Rhizocaulus verticillatus</i> , <i>Kirchenpaueria pinnata</i> and <i>Halecium halecinum?</i> , and filiform red algae (A) dominated by probably <i>Bonnemaisonia asparagoides</i> (A), as well as solitary ascidians including <i>Ascidiella aspersa</i> (F). <i>Antedon</i> sp. (P), <i>Marthasteri glacialis</i> (F), <i>Echinus esculentus</i> (C), <i>Laminaria hyperborea</i> (O) with <i>Obelia geniculata</i> .	SS.SMx.IMx.Lim		FS:LH

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LC13.01	Mosaic of coarse sand (50%) and <i>Limaria</i> turf (50%) obscuring probably stony substrate; boulders (<1%).	Sharp-edged mosaic of <i>Limaria hians</i> turf (50%) with coarse sand (50%). <i>Limaria</i> gallery apertures and single live animal visible. The turf supports a luxuriant hydroid (P) and red algal (A) turf including <i>Nemertesia ramosa</i> (F) and <i>Halecium halecinum?</i> (C locally), and foliose red algae (R) and filiform red algae (A) dominated by probably <i>Bonnemaisonia asparagoides</i> (A), as well as solitary ascidians (F) including <i>Ascidia virginea</i> (P). <i>Munida rugosa</i> (P), <i>Pecten maximus</i> (P), <i>Antedon</i> sp. (O), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (F), teleost sp.(P), <i>Saccharina latissima</i> (O). Boulder with <i>Alcyonium digitatum</i> (R) and <i>Balanus</i> spp. (P)	SS.SMx.IMx.Lim		FS:LH
LC13.02	Substrate partially obscured but includes medium-coarse sand (35%) with shell gravel (10%), pebbles (5%), cobbles (40%) and boulders (10%).	Mixed kelp park and patchy <i>Limaria hians</i> bed. <i>Limaria</i> turf (around 40% overall) supports red algal turf (A) dominated by probably <i>Bonnemaisonia asparagoides</i> . Kelp includes <i>Laminaria hyperborea</i> (C) supporting <i>Obelia geniculata</i> , and <i>Saccharina latissima</i> (F). <i>Alcyonium digitatum</i> (R), <i>Munida rugosa</i> (F), <i>Antedon</i> sp. (F), <i>Ophiocomina nigra</i> (P), <i>Echinus esculentus</i> (C), pink encrusting coralline algae (R).	SS.SMx.IMx.Lim, IR.HIR.KSed.XKScrR		FS:LH
LC13.03	Medium-coarse sand (around 60%) with scattered boulders (10%) and cobbles (largely obscured).	Mixed kelp forest (A) of <i>Saccharina latissima</i> (P) and <i>Laminaria hyperborea</i> (P) supporting dense <i>Obelia geniculata</i> , as well as <i>Trochidae</i> sp., <i>Antedon</i> spp. (F) and <i>Ophiocomina nigra</i> (P). Polyplacophora sp. (P), <i>Crossaster papposus</i> (P), <i>Asterias rubens?</i> (P), <i>Echinus esculentus</i> (C), teleost sp. (P). Sparse <i>Limaria hians</i> nests could be present but not seen.	IR.HIR.KSed.XKScrR		
LC14	Medium-coarse sand (around 65%) with boulders (20%), cobbles (5%), pebbles (5%) and gravel (5%).	Mixed kelp forest and park of <i>Saccharina latissima</i> (F) and <i>Laminaria hyperborea</i> (C, locally A) supporting dense <i>Obelia geniculata</i> , as well as <i>Steromphala cineraria</i> and <i>Antedon</i> spp. (F, locally A). <i>Echinus esculentus</i> (C), large <i>Gadidae</i> sp. (P, <i>Pollachius pollachius</i> / <i>Merlangius merlangus</i>). Apart from kelp, stones with sparse biota including pink encrusting coralline algae (R).	IR.HIR.KSed.XKScrR		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LC15.01	Mosaic of coarse sand (50%) and <i>Limaria</i> turf (40%) obscuring pebbles and cobbles (5% exposed). Small bedrock outcrop (<1%) and boulders (5%).	Initially clean-edged mosaic of <i>Limaria hians</i> bound stones (50%, overall 40%) with sand, with <i>Limaria</i> gallery apertures visible. The byssal/stone turf is reduced later on in an area with some bedrock and boulders. The stone/byssal matrix supports a luxuriant hydroid (C) and red algal (A) turf including <i>Nemertesia ramosa</i> (F), <i>N. antennina</i> , <i>Kirchenpaueria pinnata</i> , <i>Rhizocaulus verticillatus</i> and <i>Halecium halecinum?</i> , foliose (R), filamentous (P) and filiform (A) red algae dominated by probably <i>Bonnemaisonia asparagoides</i> (A), as well as <i>Alcyonium digitatum</i> (R) and solitary ascidians (F) including <i>Ascidia mentula</i> (F). Stones are encrusted with <i>Spirobranchus</i> spp. (locally A) and pink coralline algae (R). <i>Munida rugosa</i> (O), <i>Cancer pagurus?</i> (P), <i>Aequipecten opercularis</i> (P), <i>Pecten maximus?</i> (P), <i>Antedon</i> spp. (F), <i>Asterias rubens</i> (C), <i>Marthasterias glacialis</i> (F), <i>Echinus esculentus</i> (F), teleost spp. (P) including juvenile <i>Gadus morhua</i> . <i>Laminaria hyperborea</i> (O) with <i>Obelia geniculata</i> .	SS.SMx.IMx.Lim		FS:LH, GM
LC15.02	Coarse sand (45%) with visibly boulders (c.15%) and turf patches occluding substrate (c.40%).	Boulders encrusted with pink coralline algae (R) and <i>Spirobranchus</i> spp. (P) and supporting a mixed kelp park of <i>Saccharina latissima</i> (O) and <i>Laminaria hyperborea</i> (C) with extremely dense <i>Obelia geniculata</i> , <i>Antedon</i> spp. (F, locally A) and Trochidae sp. (P), and <i>Desmarestia aculeata</i> (R). Presumable cobbles and pebbles bound by <i>Limaria hians</i> (c.40% cover) form a locally well-defined mosaic with sand patches and support a luxuriant turf of filiform red algae (probably chiefly <i>Bonnemaisonia asparagoides</i> (A), foliose red algae (R), and hydroids including <i>Nemertesia ramosa</i> . <i>Munida rugosa</i> (O), <i>Pecten maximus</i> (P), <i>Asterias rubens</i> (P), <i>Echinus esculentus</i> (C), small shoals of small teleosts.	SS.SMx.IMx.Lim, IR.HIR.KSed.XKScrR		FS:LH

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LC16	Mosaic of silty coarse sand (50%) with pebbles (5%) and gravel (5%) and <i>Limaria</i> turf (40%) obscuring most of pebbles and cobbles, although exposed dense pebbles and shells on sand locally.	<i>Limaria hians</i> bed of varying density (overall 40% cover); gallery apertures visible. Much of the central part of run has a well-developed, sharp-edged mosaic of bound turf material (50%) with fairly homogeneous sand, which reduces to around 10 - 20 % cover at the ends of the run (probably close to the bed edge) with a more heterogeneous sediment including much pebbles and shell material. The stone/byssal matrix supports a luxuriant hydroid (C) and red algal (A) turf including <i>Nemertesia ramosa</i> (F), <i>N. antennina</i> , <i>Kirchenpaueria pinnata</i> , <i>Rhizocaulus verticillatus</i> and <i>Halecium halecinum?</i> (locally C), foliose (R) and filiform (A) red algae dominated by probably <i>Bonnemaisonia asparagoides</i> (A) and solitary ascidians (F) including <i>Asciadiella aspersa</i> (O), <i>Corella parallelogramma</i> (O) and <i>Ascidia mentula</i> (F). Exposed stones are encrusted with serpulid worms and pink coralline algae (R). <i>Suberites</i> sp. (R), <i>Virgularia mirabilis</i> (one patch where C), <i>Alcyonium digitatum</i> (R), <i>Munida rugosa</i> (F), Paguridae sp. (P), <i>Cancer pagurus</i> (P), Brachyura sp. (P), <i>Aequipecten opercularis</i> (C), <i>Antedon</i> spp. (O), <i>Crossaster papposus</i> (P), <i>Asterias rubens</i> (P), <i>Marthasterias glacialis</i> (F), <i>Henricia</i> sp. (O), <i>Echinus esculentus</i> (F), teleost spp. (P) including small shoal of small fish. <i>Saccharina latissima</i> (O).	SS.SMx.IMx.Lim		FS:LH
LC17	Medium-coarse sand (60%) with gravel (10%), pebbles (20%), shells (5%), boulders (5%) and small bedrock outcrop (<1%).	Park of <i>Saccharina latissima</i> (F, locally C) and <i>Laminaria hyperborea</i> (F, locally C) with dense <i>Obelia geniculata</i> . Dense red algal turf on sediment (A, locally S) including probably <i>Bonnemaisonia asparagoides</i> and <i>B. hamifera</i> (<i>Trailiella</i> form), hydroids (O) including <i>Kirchenpaueria pinnata?</i> , <i>Suberites</i> sp. (R), <i>Virgularia mirabilis</i> (locally C), <i>Urticina</i> sp. (P), serpulid worms (P), <i>Munida rugosa</i> (F), Paguridae spp. (P), <i>Necora puber?</i> (P), molluscan egg string, <i>Aequipecten opercularis</i> (C), <i>Antedon</i> spp. (F), <i>Marthasterias glacialis</i> (P), <i>Asterias rubens</i> (F), <i>Henricia</i> sp. (P), <i>Luidia ciliaris</i> (F), <i>Echinus esculentus</i> (P), solitary ascidians (P), <i>Callionymus</i> sp. (P), pink encrusting coralline algae (R). <i>Limaria hians</i> nests may be present but algal turf appears to be supported directly by sediment and unbound stones and bedrock.	SS.SMp.KSwSS.SlatR		KS

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LC18.01	Visible substrate silty medium-coarse sand (65%), gravel (15%), pebbles (10%), shell (5%), cobbles (5%), boulders (<1%) and bedrock (<1%) but much obscured by turf.	Park of <i>Saccharina latissima</i> (F) and <i>Laminaria hyperborea</i> (F) with <i>Obelia geniculata</i> . Patchy <i>Limaria hians</i> bed with area of sharply delineated turf/sand mosaic and areas of more scattered nests (varying from around 50% to 20% cover, overall 35%); <i>Limaria</i> gallery apertures visible. Dense red algal turf (A, locally S) including probably <i>Bonnemaisonia asparagoides</i> (A) and hydroids (O) including <i>Nemertesia ramosa</i> and <i>Kirchenpaueria pinnata?</i> , <i>Virgularia mirabilis</i> (F, locally C), <i>Balanus</i> spp. (P), <i>Hyas</i> sp.? (P), <i>Aequipecten opercularis</i> (F), <i>Antedon</i> spp. (F, locally C), <i>Asterias rubens</i> (P), <i>Porania pulvillus</i> (P), <i>Echinus esculentus</i> (F), small shoal of small teleosts, pink encrusting coralline algae (R).	SS.SMx.IMx.Lim, IR.HIR.KSed.XKScrR		FS:LH
LC18.02	Mixed substrate of silty, gravelly sand with pebbles and cobbles, much of which obscured by turf.	<i>Limaria hians</i> bed varying from around 20% in the form of scattered clumps at the end to 80% cover (overall 40%); <i>Limaria</i> gallery apertures visible. Dense red algal turf (A, locally S) including probably <i>Bonnemaisonia asparagoides</i> (A) and <i>B. hamifera</i> (<i>Trailiella</i> stage), and hydroids (F) including <i>Nemertesia ramosa</i> , <i>Rhizocaulus verticillatus</i> , <i>Halecium halecinum?</i> and <i>Kirchenpaueria pinnata?</i> , <i>Alcyonium digitatum</i> (R), <i>Virgularia mirabilis</i> (F, locally C over large areas), <i>Spirobranchus</i> spp. (P), <i>Lanice conchilega</i> (P), <i>Protula tubularia</i> (P), <i>Munida rugosa</i> (F), <i>Cancer pagurus</i> (F), <i>Pecten maximus?</i> (P), <i>Aequipecten opercularis</i> (C), <i>Antedon</i> spp. (P), <i>Echinus esculentus</i> (F), <i>Polycarpa pomaria?</i> (P), pink encrusting coralline algae (R), <i>Saccharina latissima</i> (O), <i>Laminaria hyperborea</i> (O).	SS.SMx.IMx.Lim		FS:LH

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
LC18.03	Mixed substrate of silty medium-coarse sand (50%) with gravel (10%), pebbles (20%) and cobbles (20%).	The substrate is configured largely in the form of parallel lines of dense pebbles and cobbles interrupted by lines of mostly sand and gravel resulting from scallop dredging. Isolated nests of <i>Limaria hians</i> may be present but no clear evidence seen. Stones encrusted with pink coralline algae (R) and serpulid worms (locally A) and support filiform red algae (O, locally F), <i>Bonnemaisonia hamifera?</i> (R, <i>Trailliella</i> form), hydroids (F) including <i>Nemertesia ramosa</i> (F), <i>Rhizocaulus verticillatus</i> (P) and <i>Kirchenpaueria pinnata?</i> (P), <i>Polycarpa pomaria?</i> (P), <i>Virgularia mirabilis</i> (P), <i>Munida rugosa</i> (F), <i>Pecten maximus</i> (P), <i>Aequipecten opercularis</i> (C), <i>Antedon</i> sp. (P), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (F). Taught length of rope (experimental ground rope?).	SS.SMx.CMx		
LC19.01	Mixed substrate of silty medium-coarse sand (40%) with gravel (20%), pebbles (25%) and cobbles (15%).	<i>Limaria hians</i> bed varying from around 40% cover initially (in the form of a loosely-defined mosaic with sediment) to scattered nests (c.15%) at end (overall 25%). Bound byssal/stone material supports red algal turf (C, A initially) including foliose species (R) and probably <i>Bonnemaisonia asparagoides</i> (C) and <i>B. hamifera</i> (<i>Trailliella</i> stage), and hydroids (F) including <i>Nemertesia ramosa</i> (F) and <i>Kirchenpaueria pinnata?</i> . Stones encrusted with pink coralline algae (R) and serpulid worms (P). <i>Munida rugosa</i> (F), Paguridae sp. (P), <i>Inachus</i> sp.? (P), <i>Aequipecten opercularis</i> (C), molluscan egg strings, <i>Antedon</i> spp. (O), <i>Asterias rubens</i> (F), <i>Ophiothrix fragilis</i> (P), <i>Echinus esculentus</i> (F), <i>Laminaria hyperborea</i> (O).	SS.SMx.IMx.Lim		FS:LH
LC19.02	Mixed substrate of silty medium-coarse sand (35%) with gravel (25%), pebbles (25%), shells 5%), cobbles (10%) and bedrock (<1%).	Faint parallel lines of coarser stones are visible (viewed from a distance) indicative of scallop dredging. Stones encrusted with pink coralline algae (R) and serpulid worms (C) and support <i>Suberites</i> sp. (R), hydroids (F), <i>Ascidia mentula</i> (F), filiform/filamentous red algae (R). <i>Munida rugosa</i> (F), <i>Inachus</i> sp. (O), <i>Aequipecten opercularis</i> (C), <i>Antedon</i> sp. (P), teleost spp. (P).	SS.SMx.CMx		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA05_01	Soft mud.	Densely burrowed mud with burrowers including <i>Calocaris macandreae</i> (A), <i>Nephrops norvegicus</i> (F, 1 seen) and small holes (<5 mm) (P). <i>Funiculina quadrangularis</i> (F) with <i>Asteronyx loveni</i> (O), <i>Pachycerianthus multiplicatus</i> (O-F), Caridea sp. (P), <i>Munida</i> sp. (P), <i>Luidia ciliaris</i> (P), <i>Trisopterus</i> sp. (P).	SS.SMu.CFiMu.SpnMeg. Fun		BM:SB, BM:FQ, BM:PM
FMA05_03	Soft mud.	Densely burrowed mud with burrowers including <i>Calocaris macandreae</i> (A), <i>Nephrops norvegicus</i> (F, 3 seen) and small holes (<5 mm) (P). <i>Funiculina quadrangularis</i> (F) with <i>Asteronyx loveni</i> (R), <i>Pachycerianthus multiplicatus</i> (P), Caridea sp. (P), teleost spp. (O). <i>Meganyctiphanes norvegica?</i> (P) in water column.	SS.SMu.CFiMu.SpnMeg. Fun		BM:SB, BM:FQ, BM:PM
FMA05_04.01	Muddy sand (70%) with gravel (25%), pebbles (5%), cobbles (<1%) and boulders (<1%).	Fairly rich ascidian fauna with <i>Ascidia mentula</i> (F), <i>A. virginea</i> (F) and <i>Diazona violacea</i> (F). <i>Pennatula phosphorea</i> (R), <i>Salmacina dysteri/Filograna implexa</i> (R), <i>Munida rugosa</i> (F), Paguridae sp. (P), <i>Turritella communis</i> shells (possibly empty), small Pectiniidae sp. (C locally), <i>Pecten maximus</i> (P), Crinoidea sp. (R), <i>Porania pulvillus</i> (O), <i>Luidia ciliaris</i> (F), possible single <i>Nephrops norvegicus</i> burrow. Stones with serpulid worms (R) and encrusting pink coralline algae (R).	SS.SMu.CSaMu		
FMA05_04.02	Partially silted bedrock with small muddy sand patches (1%).	Rock encrusted with pink coralline algae (A) and <i>Spirobranchus</i> spp. (A) and supporting sparse hydroids (R), <i>Bolocera tuediae?</i> (P), small <i>Phakellia ventilabrum</i> / <i>Axinella infundibuliformis</i> (O), <i>Ascidia mentula</i> (F), <i>A. virginea</i> (O) and <i>Diazona violacea</i> (F). <i>Munida rugosa</i> (F), Pectiniidae sp. (P), <i>Porania pulvillus</i> (F), <i>Echinus esculentus</i> (P).	CR.HCR.DpSp.PhaAxi		NS:DS
FMA05_04.03	Muddy sand (70%) with gravel (25%), pebbles (5%), cobbles (<1%) and boulders (<1%).	Fairly rich ascidian fauna with <i>Ascidia mentula</i> (F), <i>A. virginea</i> (F) and <i>Diazona violacea</i> (F). <i>Munida rugosa</i> (F), Crinoidea sp. (F), <i>Porania pulvillus</i> (O), <i>Luidia ciliaris</i> (P). Stones with encrusting pink coralline algae (R) and <i>Iophon nigricans?</i> (R).	SS.SMu.CSaMu		
FMA05_05.01	Mud with sparsely scattered cobbles (<1%).	Mud burrowed by <i>Calocaris macandreae</i> (F), <i>Jaxea nocturna</i> (P) and <i>Nephrops norvegicus</i> (C, 1 seen). <i>Funiculina quadrangularis</i> (F), Terebellidae sp. (P), <i>Munida</i> sp. (R), teleost sp. (P). Stones with <i>Axinella infundibuliformis</i> / <i>Phakellia ventilabrum</i> (R).	SS.SMu.CFiMu.SpnMeg. Fun		BM:SB, BM:FQ

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA05_05.02	Mud 89%) with pebbles (1%), cobbles (5%) and boulders (5%), with stones locally 50%).	Mosaic of stones on mud. Mud lightly burrowed by <i>Calocaris macandreae</i> (F) and <i>Nephrops norvegicus</i> (P) and supporting <i>Funiculina quadrangularis</i> (P) and <i>Pachycerianthus multiplicatus</i> (P). Stones with <i>Axinella infundibuliformis/Phakellia ventilabrum</i> (F), <i>Iophon nigricans?</i> (R), hydroids (R), <i>Salmacina dysteri/Filograna implexa</i> (R), <i>Terebratulina retusa</i> (P) and <i>Novocrania anomala</i> (C on rock). Caridea sp. (P), <i>Munida</i> spp. (F), <i>Porania pulvillus</i> (F), <i>Echinus esculentus</i> (P).	SS.SMu.CFiMu.SpnMeg. Fun, CR.HCR.DpSp.PhaAxi	RF:ST	BM:SB, BM:FQ, BM:PM, NS:DS
FMA05_05.03	Mud.	Mud burrowed by <i>Calocaris macandreae</i> (C) and <i>Nephrops norvegicus</i> (P).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA05_05.04	Mud 83%) with pebbles (2%), cobbles (5%) and boulders (10%), with stones locally 50%).	Mosaic of stones on mud. Mud with sparse small burrows and a burrowing anemone (aff. <i>Halcampoides elongatus</i>). Stones with <i>Axinella infundibuliformis/Phakellia ventilabrum</i> (O), <i>Iophon nigricans?</i> (O), <i>Sabella pavonina</i> tubes (P), <i>Salmacina dysteri/Filograna implexa</i> (R), <i>Novocrania anomala</i> (C on rock) and <i>Ascidia viginea</i> (P). <i>Munida</i> spp. (F), <i>Echinus esculentus</i> (O), <i>Trisopterus</i> sp.? (P).	SS.SMu.CFiMu, CR.HCR.DpSp.PhaAxi	RF:ST	NS:DS
FMA05_05.05	Mud with sparsely scattered cobbles (<1%) and boulders (<1%).	Mud burrowed by <i>Calocaris macandreae</i> (F, locally C) and <i>Nephrops norvegicus</i> (C, 2 seen). <i>Funiculina quadrangularis</i> (F) possibly with <i>Asteronyx loveni</i> (R), <i>Sabella pavonina</i> (R), Caridea sp. (O), <i>Munida</i> spp. (P), <i>Buccinum undatum</i> (P), <i>Porania pulvillus</i> (P), <i>Parastichopus tremulus?</i> (P), teleost spp. (F). Stones with <i>Axinella infundibuliformis/Phakellia ventilabrum</i> (R), <i>Iophon nigricans?</i> (R), hydroids (R), serpulid worms (R), <i>Terebratulina retusa</i> (R), Ophiuroidea sp. (P), <i>Echinus esculentus</i> (P), <i>Ascidia mentula</i> (P). <i>Meganyctiphanes norvegica?</i> in water column.	SS.SMu.CFiMu.SpnMeg. Fun		BM:SB, BM:FQ

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA05_06	Soft mud.	Densely burrowed mud with burrowers including <i>Calocaris macandreae</i> (A), <i>Nephrops norvegicus</i> (C, 1 seen) and species forming paired small holes (<5 mm) (P). <i>Funiculina quadrangularis</i> (F), <i>Cerianthus lloydii</i> (R), Caridea sp. (O), <i>Munida</i> spp. (O), teleost spp. (F) including <i>Trisopterus</i> sp. (P). Stones with encrusting cream sponge, <i>Iophon nigricans?</i> , <i>Axinella infundibuliformis/Phakellia ventilabrum</i> , <i>Salmacina dysteri/Filograna implexa</i> , <i>Sabella pavonina</i> , Terebellidae sp., <i>Novocrania anomala</i> , <i>Dendrodoa grossularia?</i>	SS.SMu.CFiMu.SpnMeg. Fun		BM:SB, BM:FQ
FMA05_07	Soft mud.	Densely burrowed mud with burrowers including <i>Calocaris macandreae</i> (A), <i>Nephrops norvegicus</i> (C, 10 seen) and small holes (<5 mm) (P). <i>Funiculina quadrangularis</i> (C) with <i>Asteronyx loveni</i> (R), Terebellidae sp. (P), Caridea sp. (O), <i>Scylliorhinus</i> sp. (P), teleost spp. (F) including <i>Gadidae</i> spp. (P).	SS.SMu.CFiMu.SpnMeg. Fun		BM:SB, BM:FQ
FMA05_09	Soft mud with sparse cobbles, boulders and small bedrock outcrops (all <1%).	Densely burrowed mud with burrowers including <i>Calocaris macandreae</i> (A) and <i>Nephrops norvegicus</i> (F, 3 seen), burrows reducing towards end of run. <i>Funiculina quadrangularis</i> (O), <i>Pachycerianthus multiplicatus</i> (F), Caridea sp. (O), <i>Munida</i> spp. (O), teleost spp. (O) including <i>Trisopterus</i> sp.?. Rock with <i>Axinella infundibuliformis/Phakellia ventilabrum</i> (R) and hydroids R).	SS.SMu.CFiMu.SpnMeg. Fun		BM:SB, BM:FQ, BM:PM
FMA05_10.01	Cohesive muddy sand (93%) with scattered shells (1%), pebbles (3%), cobbles (3%) and boulders (<1%).	Sediment with <i>Turritella communis</i> (C, at least locally) and <i>Nephrops norvegicus</i> burrows (F) but otherwise lacking burrows. Stones encrusted with pink coralline algae (R) and serpulid worms (P) and supporting sparse <i>Iophon nigricans?</i> (R), <i>Ascidia virginea</i> (F) and <i>A. mentula</i> (R). <i>Munida rugosa</i> (F), <i>Atelecyclus rotundatus?</i> (P), <i>Porania pulvillus</i> (O), <i>Asterias rubens</i> (P), <i>Luidia ciliaris</i> (P).	SS.SMu.CSaMu		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA05_10.02	Silted bedrock (48%) and boulders (48%) with small pockets of muddy sand (4%).	Rock encrusted with pink coralline algae (O), serpulid worms (P) and sponges including cream species (R) and <i>Hymedesmia paupertas?</i> (R). Other sponges include <i>Axinella infundibuliformis/Phakellia ventilabrum</i> (F) and <i>Myxilla incrustans?</i> (R). Rock also supports hydroids (R), <i>Caryophyllia smithii</i> (F locally), <i>Ascidia virginea</i> (C, at least locally), <i>A. mentula</i> (F), <i>Diazona violacea</i> (R). <i>Cancer pagurus</i> (P), Ophiuroidea sp. (P), <i>Porania pulvillus</i> (F)	CR.HCR.DpSp.PhaAxi	RF:ST, RF:BR	NS:DS
FMA05_10.03	Cohesive muddy sand (87%) with scattered shells (2%), gravel (2%), pebbles (3%), cobbles (5%) and boulders (1%).	Sediment with <i>Turritella communis</i> (C, at least locally) and <i>Nephrops norvegicus</i> burrows (F) but otherwise lacking burrows. Stones encrusted with pink coralline algae (R) and serpulid worms (P) and supporting hydroids (R), <i>Novocrania anomala</i> (P), <i>Diazona violacea</i> (P), <i>Ascidia virginea</i> (F) and <i>A. mentula</i> (F). <i>Munida rugosa</i> (O), <i>Aequipecten opercularis</i> (R), <i>Porania pulvillus</i> (O), <i>Asterias rubens</i> (O), <i>Echinus esculentus</i> (F), teleost sp. (P).	SS.SMu.CSaMu		
FMA05_12.01	Mud.	Moderate density of megafaunal burrows including <i>Calocaris macandreae</i> (F) and <i>Nephrops norvegicus</i> (C) and small holes. <i>Munida</i> spp. (F), <i>Turritella communis</i> (F), <i>Glyptocephalus cyanoglossus?</i> (P).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA05_12.02	Mud (77%) with scattered pebbles (5%), cobbles (15%), boulders (2%) and bedrock outcrops (1%).	Mosaic of cobbles and boulders and small bedrock outcrops with mud. Rock supports <i>Axinella infundibuliformis/Phakellia ventilabrum</i> (O, F on rock), <i>Iophon nigricans?</i> (R), cream encrusting sponge (P), hydroids including <i>Tubularia</i> spp.? (R), <i>Sagartia elegans?</i> (P), serpulid worms (P), Terebellidae sp. (P), <i>Sabella pavonina</i> tubes (P), <i>Novocrania anomala</i> (F, C on rock), <i>Ascidia mentula?</i> (P), <i>A. virginea</i> (P). Caridea sp. (P) <i>Munida</i> spp. (F), <i>Buccinum undatum</i> (R), Pectiniidae sp. (P), <i>Leptometra celtica</i> (C over large area), <i>Porania pulvillus</i> (O), <i>Echinus esculentus</i> (F), teleost spp. (O). Sediment with megafaunal burrows including <i>Calocaris macandreae</i> (F, at least locally).	SS.SMu.CFiMu.SpnMeg, CR.HCR.DpSp.PhaAxi	RF:ST, RF:BR	BM:SB, NS:DS, LC
FMA05_12.03	Silted bedrock.	Rock with <i>Novocrania anomala</i> (P), <i>Axinella infundibuliformis/Phakellia ventilabrum</i> (F) and <i>Sabella pavonina</i> (C locally). <i>Munida</i> sp. (R), <i>Porania pulvillus</i> (O), <i>Leptometra celtica</i> (C locally), <i>Echinus esculentus</i> (F).	CR.HCR.DpSp.PhaAxi	RF:BR	NS:DS, LC

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA05_12.04	Mud (78%) with scattered pebbles (5%), cobbles (10%), boulders (2%) and bedrock outcrops (5%).	Rock with <i>Novocrania anomala</i> (where C), <i>Axinella infundibuliformis</i> / <i>Phakellia ventilabrum</i> (F) and <i>Ascidia mentula?</i> (P). <i>Caridea</i> sp. (P), <i>Munida</i> spp. (F), <i>Porania pulvillus</i> (O), <i>Echinus esculentus</i> (F). Mud with fairly sparse, small burrows locally.	SS.SMu.CFiMu, CR.HCR.DpSp.PhaAxi	RF:ST, RF:BR	NS:DS
FMA05_12.05	Mud.	Low density of megafaunal burrows including <i>Calocaris macandreae?</i> (F) and <i>Nephrops norvegicus</i> (F). <i>Munida</i> spp. (O), teleost spp. (O).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA05_12.06	Mud (44%) with bedrock outcrops (50%) and scattered cobbles (3%) and boulders (3%).	Rock with <i>Novocrania anomala</i> (where C), <i>Axinella infundibuliformis</i> / <i>Phakellia ventilabrum</i> (O), <i>Lophon nigricans?</i> (R), hydroids (O), <i>Sabella pavonina</i> tubes (P) and <i>Ascidia virginea</i> (P). <i>Munida</i> spp. (F). Mud possibly with sparse <i>Pennatula phosphorea</i> (R).	SS.SMu.CFiMu, CR.HCR.DpSp.PhaAxi	RF:ST, RF:BR	NS:DS
FMA05_13.01	Slightly shelly sandy mud or muddy sand with scattered pebbles (2%), cobbles (2%) and boulders (<1%).	Fairly sparse megafaunal burrows including <i>Calocaris macandreae</i> (O, locally F) and <i>Nephrops norvegicus</i> (F). <i>Munida rugosa</i> (O, locally F), <i>Brachyura</i> sp. (P), <i>Turritella communis</i> (C). Stones support hydroids (R) and <i>Novocrania anomala</i> (R).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA05_13.02	Slightly shelly sandy mud or muddy sand with scattered pebbles (5%), cobbles (10%) and boulders (1%).	Mosaic of cobbles and boulders on sediment. Rock supports axinellid sponges (F) including <i>Phakellia ventilabrum</i> and probably <i>Axinella infundibuliformis</i> and other sponges including <i>Lophon nigricans?</i> (R), hydroids (R), <i>Novocrania anomala</i> (O, locally C), <i>Ascidia virginea</i> (P). <i>Munida rugosa</i> (F), <i>Porania pulvillus</i> (O), <i>Echinus esculentus</i> (O), teleost sp. (P). Sediment with sparse, small burrows.	SS.SMu.CFiMu, CR.HCR.DpSp.PhaAxi	RF:ST	NS:DS
FMA05_13.03	Silted bedrock.	Rock supporting dense <i>Novocrania anomala</i> (C), sparse <i>Axinella infundibuliformis</i> / <i>Phakellia ventilabrum</i> (O), a white arborescent sponge (R) and hydroids (R). <i>Munida rugosa</i> (F), <i>Porania pulvillus</i> (O).	CR.HCR.DpSp.PhaAxi	RF:BR	NS:DS

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA05_13.04	Slightly shelly, sandy mud with scattered stones in transitional area (<1% overall).	Moderate density of megafaunal burrows including <i>Calocaris macandreae</i> (F) and <i>Nephrops norvegicus</i> (C, 3 seen). <i>Munida rugosa</i> (F). Stones support <i>Axinella infundibuliformis/Phakellia ventilabrum</i> (R) and <i>Novocrania anomala</i> (R).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA05_13.05	Slightly shelly sandy mud or muddy sand with scattered pebbles (2%), cobbles (10%) and boulders (1%).	Mosaic of cobbles and boulders on sediment. Rock supports <i>Axinella infundibuliformis/Phakellia ventilabrum</i> (O), hydroids (R), <i>Novocrania anomala</i> (F), <i>Ascidia mentula</i> (P). <i>Munida rugosa</i> (F), teleost sp. (P). Sediment with <i>Sabella pavonona</i> tubes? (P) and small megafaunal burrows including <i>Calocaris macandreae</i> (F).	SS.SMu.CFiMu, CR.HCR.DpSp.PhaAxi	RF:ST	NS:DS
FMA05_14	Soft mud.	Densely burrowed mud with burrowers including <i>Calocaris macandreae</i> (A), <i>Nephrops norvegicus</i> (C, 1 seen) and species forming paired small holes (<5 mm) (F). <i>Funiculina quadrangularis</i> (C) with <i>Asteronyx loveni</i> (O), Caridea sp. (O), large teleost spp. (F) including <i>Trisopterus</i> sp. (P).	SS.SMu.CFiMu.SpnMeg. Fun		BM:SB, BM:FQ
FMA05_15	Soft mud.	Densely burrowed mud with burrowers including <i>Calocaris macandreae</i> (A) and species forming paired small holes (<5 mm) (C). <i>Funiculina quadrangularis</i> (O), <i>Pachycerianthus multiplicatus</i> (F), Caridea sp. (O), <i>Munida rugosa</i> (O), teleost sp. (P).	SS.SMu.CFiMu.SpnMeg. Fun		BM:SB, BM:FQ, BM:PM
FMA05_16.01	Silted bedrock slope with mud pockets.	Very poor visibility (no HD video or photographs). Rock supports abundant but patchy <i>Leptometra celtica</i> and frequent axinellid sponges (<i>Axinella infundibuliformis</i> and/or <i>Phakellia ventilabrum</i>) and other sponges. <i>Sabella pavonina</i> ? (P).	CR.HCR.DpSp.PhaAxi	RF:BR	NS:DS, LC
FMA05_16.02	Mud with occasional cobbles (<1%) and boulders or emergent bedrock (<1%).	Very poor visibility (no HD video). Mud possibly veneer over rock, although it supports small (<1 cm) burrows and dense <i>Leptometra celtica</i> (A). Caridea sp. (P).	SS.SMu.CFiMu		LC

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA05_16.03	Bedrock slope, locally silted and with mud pockets.	Very poor visibility and seabed not visible for periods. Rock with axinellid sponges (F, locally C) including <i>Phakellia ventiabrum</i> and possibly <i>Axinella infundibuliformis</i> , and other sponges including <i>Iophon nigricans?</i> (P). Fairly sparse hydroids and bryozoans, <i>Sabella pavonina</i> (C, locally A), <i>Caridea</i> sp. (P), <i>Munida</i> spp. (P), <i>Terebratulina retusa</i> (C locally), <i>Porania pulvillus</i> (P), <i>Ascidia mentula</i> (P), small teleost spp. (P) Rock supports dense <i>Leptometra celtica</i> (locally A) in shallower section. Mud pockets with small burrows and <i>Virgularia mirabilis?</i> (P).	CR.HCR.DpSp.PhaAxi, SS.SMu.CFiMu.SpnMeg	RF:BR	NS:DS, BM:SB, LC
FMA05_16.04	Mud with scattered gravel (<1%) and pebbles (<1%).	<i>Virgularia mirabilis?</i> (F), <i>Funiculina quadrangularis</i> (P), sparse small burrows and hydroids (R).	SS.SMu.CFiMu.SpnMeg. <i>Fun</i>		BM:SB, BM:FQ
FMA05_17.01	Muddy sand (69%) with gravel (5%), pebbles (10%), cobbles (15%) and boulders (1%).	Considered as mosaic of cobbles and boulders on mixed sediment. Stones support pink encrusting coralline algae (R), sparse sponges including <i>Axinella infundibuliformis/Phakellia ventilabrum</i> (R), <i>Iophon nigricans?</i> (R), <i>Polymastia boletiformis</i> (R) and red species (R), hydroids (R), <i>Salmacina dysteri</i> (or <i>Filograna implexa</i>) in colonies up to 50 cm diameter (R, locally F), <i>Porella compressa</i> (R) and <i>Diazona violacea</i> (F). <i>Munida rugosa</i> (F, locally C), <i>Leptometra celtica</i> (R), <i>Asterias rubens</i> (O), <i>Porania pulvillus</i> (O), <i>Echinus esculentus</i> (F), <i>Ascidia mentula</i> (O). <i>Virgularia mirabilis</i> (R).	SS.SMx.CMx, CR.HCR.DpSp.PhaAxi	RF:ST	NS:DS, LC
FMA05_17.02	Silted bedrock with small muddy sand patches (<1%).	Rock supporting dense <i>Novocrania anomala</i> (C), <i>Axinella infundibuliformis/Phakellia ventilabrum</i> (F), <i>Iophon nigricans?</i> (R) and <i>Ascidia virginea</i> (R). <i>Munida rugosa</i> (R), <i>Porania pulvillus</i> (F), <i>Echinus esculentus</i> (P).	CR.HCR.DpSp.PhaAxi, SS.SMu.CFiMu.SpnMeg	RF:BR	NS:DS, BM:SB
FMA05_17.03	Muddy sand (69%) with gravel (5%), pebbles (15%), cobbles (10%) and boulders (1%).	Considered as mosaic of cobbles and boulders on mixed sediment. Stones support sparse <i>Axinella infundibuliformis/Phakellia ventilabrum</i> (R) and <i>Novocrania anomala</i> (P). <i>Munida rugosa</i> (F), <i>Crinoidea</i> sp. (R), <i>Ophiuroidea</i> sp. (P), <i>Echinus esculentus</i> (P).	SS.SMx.CMx, CR.HCR.DpSp.PhaAxi	RF:ST	NS:DS

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA05_17.04	Silted bedrock.	Rock encrusted with dense <i>Novocrania anomala</i> (C), and supporting apparently sparse <i>Axinella infundibuliformis</i> / <i>Phakellia ventilabrum</i> (P) and <i>Ascidia virginea</i> (R). <i>Munida rugosa</i> (R), Crinoidea sp. (R).	<i>CR.HCR.DpSp.PhaAxi</i>	RF:BR	NS:DS
FMA05_17.05	Muddy sand (80%) with gravel (5%), pebbles (5%), cobbles (10%) and boulders (<1%).	Considered as mosaic of cobbles and boulders on mixed sediment. Stones support sparse <i>Axinella infundibuliformis</i> / <i>Phakellia ventilabrum</i> (R) and <i>Novocrania anomala</i> (P). <i>Munida rugosa</i> (F), Crinoidea sp. (R).	SS.SMx.CMx, <i>CR.HCR.DpSp.PhaAxi</i>	RF:ST	NS:DS
FMA05_18	Soft mud.	Densely burrowed mud with burrowers including <i>Calocaris macandreae</i> (A) and possibly small <i>Nephrops norvegicus</i> (P). <i>Funiculina quadrangularis</i> (O), <i>Pachycerianthus multiplicatus</i> (F), Caridea sp. (O), teleost spp. (F) including <i>Glyptocephalus cyanoglossus</i> ? (P).	SS.SMu.CFiMu.SpnMeg. Fun		BM:SB, BM:FQ, BM:PM
FMA05_19	Soft mud.	Densely burrowed mud with burrowers including <i>Calocaris macandreae</i> (A), <i>Nephrops norvegicus</i> (F, 1 seen) and species forming paired small holes (<5 mm) (C). <i>Funiculina quadrangularis</i> (F), <i>Pachycerianthus multiplicatus</i> (O), Caridea sp. (O), <i>Parastichopus tremulus</i> ? (P), large teleost spp. (F) including Gadidae sp. (P). <i>Meganyctiphanes norvegica</i> ? in water column.	SS.SMu.CFiMu.SpnMeg. Fun		BM:SB, BM:FQ, BM:PM
FMA05_20	Soft mud.	Densely burrowed mud with burrowers including <i>Calocaris macandreae</i> (A), possibly small <i>Nephrops norvegicus</i> (P) and species forming paired small holes (<5 mm) (C). <i>Funiculina quadrangularis</i> (F), Caridea sp. (O), <i>Glyptocephalus cyanoglossus</i> ? (F), <i>Trisopterus</i> sp. (F).	SS.SMu.CFiMu.SpnMeg. Fun		BM:SB, BM:FQ
FMA05_24.01	Mud (88%) with scattered cobbles (5%), boulders (5%) and outcropping bedrock (2%) including cliff.	Mud with abundant <i>Amphiura</i> spp. at least locally and small holes but sparse megafaunal burrows including <i>Calocaris macandreae</i> (O). Single <i>Nephrops norvegicus</i> burrow present before position tracking (and hence sample) started. Rock supporting <i>Phakellia ventilabrum</i> / <i>Axinella infundibuliformis</i> ? (O), <i>Iophon nigricans</i> ? (R), serpulid worms (P), <i>Novocrania anomala</i> (C locally), <i>Terebratulina retusa</i> (P), <i>Ascidia mentula</i> (O), <i>A. virginea</i> (O). <i>Munida</i> spp. (F), <i>Echinus esculentus</i> (P), teleost sp. (P).	SS.SMu.CFiMu, <i>CR.HCR.DpSp.PhaAxi</i>	RF:ST	NS:DS

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA05_24.02	Silted bedrock.	Poor visibility. <i>Phakellia ventilabrum</i> / <i>Axinella infundibuliformis</i> (P), <i>Porania pulvillus</i> (P).	CR.HCR.DpSp.PhaAxi	RF:BR	NS:DS
FMA05_24.03	Soft mud with sparsely scattered cobbles (<1%) and boulders (<1%).	Mud with many small holes and moderate density of megafaunal burrows including <i>Nephrops norvegicus</i> (F, 3 animals seen) and <i>Calocaris macandreae</i> (F), and supporting <i>Funiculina quadrangularis</i> (F), <i>Cerianthus lloydii</i> (O) and possibly <i>Sabella pavonina</i> tubes (O). <i>Iophon nigricans?</i> (R), <i>Munida</i> spp. (F), Paguridae sp. (P), <i>Porania pulvillus</i> (P), <i>Ascidia</i> spp. (P), (teleost spp. (F).	SS.SMu.CFiMu.SpnMeg. Fun		BM:SB, BM:FQ
FMA05_24.04	Mud (70%) with scattered cobbles (15%), boulders (15%) and outcropping bedrock (<1%).	Mud with <i>Amphiura</i> spp. (C, at least locally) and many small holes but sparse megafaunal burrows including <i>Nephrops norvegicus</i> (F, 2 animals seen); Caridea sp. (O). Stones supporting <i>Phakellia ventilabrum</i> / <i>Axinella infundibuliformis?</i> (where F), <i>Iophon nigricans?</i> (R), hydroids (P), serpulid worms (P), <i>Sabella pavonina</i> tubes (P), <i>Salmacina dysterii</i> / <i>Filograna implexa</i> (R), <i>Novocrania anomala</i> (C locally), <i>Terebratulina retusa</i> (C locally), <i>Ascidia mentula</i> (P), <i>A. virginea</i> (O). <i>Munida</i> spp. (F), Ophiuroidea sp. (R), <i>Porania pulvillus</i> (O), <i>Echinus esculentus</i> (P), teleost sp. (O). Creel - probably abandoned.	SS.SMu.CFiMu, CR.HCR.DpSp.PhaAxi	RF:ST	NS:DS
FMA05_24.05	Soft mud.	Mud with many small holes and moderate density of megafaunal burrows including <i>Nephrops norvegicus</i> (C, 5 animals seen) and possibly <i>Calocaris macandreae</i> (P), and supporting <i>Funiculina quadrangularis</i> (O), <i>Cerianthus lloydii</i> (O) and <i>Sabella pavonina</i> tubes (O). Caridea sp. (P), <i>Munida</i> spp. (P), <i>Trisopterus</i> sp.? (O), <i>Glyptocephalus cyanoglossus?</i> (P).	SS.SMu.CFiMu.SpnMeg. Fun		BM:SB, BM:FQ
FMA05_26.01	Muddy sand (58%), gravel (25%) and pebbles (10%) with scattered cobbles (5%) and boulders (2%).	Stones support <i>Iophon nigricans?</i> (R), <i>Phakellia ventilabrum</i> / <i>Axinella infundibuliformis</i> (R), <i>Clathrina coriacea</i> (P), <i>Halecium</i> sp. (P), serpulid worms (R), <i>Salmacina dysterii</i> / <i>Filograna implexa</i> (R), <i>Balanus balanus</i> (P), <i>Novocrania anomala</i> (C on rock), <i>Ascidia virginea</i> (F), <i>A. mentula</i> (O), <i>Polycarpa pomaria</i> (P), <i>Diazona violacea</i> (C). <i>Munida rugosa</i> (P), <i>Porania pulvillus</i> (O), field of <i>Leptometra celtica</i> (C) on stones and sediment for whole of run.	SS.SMx.CMx, CR.HCR.DpSp.PhaAxi	RF:ST	NS:DS, LC

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA05_26.02	Silted bedrock (98%) and boulders (2%).	Rock supports <i>Phakellia ventilabrum</i> / <i>Axinella infundibuliformis</i> (F, locally C), <i>lophon nigricans?</i> (R), <i>Ascidia mentula</i> (P), <i>A. virginea</i> (P), <i>Diazona violacea</i> (F) and <i>Leptometra celtica</i> (F). <i>Porania pulvillus</i> (O).	CR.HCR.DpSp.PhaAxi	RF:BR	NS:DS, LC
FMA05_26.03	Muddy sand (63%), gravel (20%) and pebbles (10%) with scattered cobbles (5%) and boulders (2%).	Stones support <i>lophon nigricans?</i> (R), <i>Phakellia ventilabrum</i> / <i>Axinella infundibuliformis</i> (R), <i>Clathrina coriacea</i> (P), yellow encrusting sponge (R), <i>Halecium</i> sp. (P), serpulid worms (R), <i>Salmacina dysteri</i> / <i>Filograna implexa</i> (R), <i>Novocrania anomala</i> (C on rock), <i>Ascidia virginea</i> (F), <i>A. mentula</i> (F), <i>Diazona violacea</i> (C). <i>Munida rugosa</i> (F), Crinoidea spp. (O), <i>Porania pulvillus</i> (O), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (P).	SS.SMx.CMx, CR.HCR.DpSp.PhaAxi		NS:DS
FMA05_26.04	Silted bedrock (98%) and boulders (2%).	Rock supports <i>Phakellia ventilabrum</i> / <i>Axinella infundibuliformis</i> (F), <i>lophon nigricans?</i> (R), yellow encrusting sponge (R), serpulid worms (P), <i>Salmacina dysteri</i> / <i>Filograna implexa</i> (R), <i>Novocrania anomala</i> (C), <i>Ascidia mentula</i> (F), <i>A. virginea</i> (P), <i>Diazona violacea</i> (F) and <i>Leptometra celtica</i> (F). <i>Porania pulvillus</i> (O).	CR.HCR.DpSp.PhaAxi	RF:BR	NS:DS, LC
FMA05_26.05	Cohesive muddy sand (88%) with scattered pebbles (5%), cobbles (5%) and boulders (2%).	Sediment with <i>Calocaris macandreae</i> burrows (F, locally C), <i>Nephrops norvegicus</i> (F, 1 seen) and smaller burrows (P). Stones with <i>lophon nigricans?</i> (R), <i>Novocrania anomala</i> (C locally). <i>Munida</i> spp. (F), field of <i>Leptometra celtica</i> (C) on sediment and stones, <i>Porania pulvillus</i> (P).	SS.SMu.CFiMu.SpnMeg, CR.HCR.DpSp.PhaAxi		BM:SB, NS:DS, LC
FMA05_26.06	Silted bedrock (98%) and boulders (2%).	Rock supports <i>Phakellia ventilabrum</i> / <i>Axinella infundibuliformis?</i> (P), <i>Clathrina coriacea?</i> (R), <i>Ascidia mentula</i> (P), <i>A. virginea</i> (O) and <i>Leptometra celtica</i> (C). <i>Munida</i> sp. (P), <i>Porania pulvillus</i> (P).	CR.HCR.DpSp.PhaAxi	RF:BR	NS:DS, LC
FMA05_26.07	Cohesive muddy sand (93%) with scattered cobbles (5%) and boulders (2%).	Sediment with <i>Calocaris macandreae</i> burrows (F), smaller burrows (P) and <i>Pachycerianthus multiplicatus</i> (P). Stones with <i>lophon nigricans?</i> (R), <i>Salmacina lysteri</i> / <i>Filograna implexa?</i> (R), <i>Novocrania anomala</i> (where C), <i>Ascidia mentula</i> (P), <i>A. virginea</i> (P). <i>Munida</i> spp. (F), field of <i>Leptometra celtica</i> (C) on sediment and stones, <i>Porania pulvillus</i> (O), teleost sp. (P).	SS.SMu.CFiMu.SpnMeg, CR.HCR.DpSp.PhaAxi		BM:SB, BM:PM, NS:DS, LC

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA05_28.01	Mud with scattered pebbles (5%), cobbles (5%) and boulders (2%).	Mud generally sparsely burrowed with burrowers including <i>Calocaris macandreae</i> (F) and <i>Nephrops norvegicus</i> (P, 1 animal seen) and smaller species. <i>Funiculina quadrangularis</i> (F), <i>Pachycerianthus multiplicatus</i> (F), <i>Cerianthus lloydii</i> (O), <i>Sabella pavonina</i> (O), Caridea sp. (P), <i>Buccinum undatum</i> (P), <i>Amphiura</i> spp. (A), <i>Porania pulvillus</i> (P). <i>Munida</i> spp. (O) including <i>M. sarsi</i> ? (P). Stones support <i>Iophon nigricans</i> ? (R), serpulid worms (R), <i>Novocrania anomala</i> (P), <i>Asciodiella virginea</i> (R). Field of <i>Leptometra celtica</i> (C) on stones and sediment for much of run.	SS.SMu.CFiMu.SpnMeg. Fun		BM:SB, BM:FQ, BM:PM, LC
FMA05_28.02	Bedrock cliff.	Rock supports <i>Phakellia ventilabrum</i> and possibly <i>Axinella infundibuliformis</i> (F, locally C), <i>Iophon nigricans</i> ? (P), <i>Terebratulina retusa</i> (P) and <i>Leptometra celtica</i> (C). <i>Munida</i> sp. (P).	CR.HCR.DpSp.PhaAxi	RF:BR	NS:DS, LC
FMA05_28.03	Mud with scattered pebbles (5%), cobbles (8%) and boulders (8%).	Mud with sparse, small burrows, although 2 <i>Nephrops norvegicus</i> seen on surface. Caridea sp. (O), <i>Porania pulvillus</i> (O). <i>Munida</i> spp. (F), <i>Parastichopus tremulus</i> (F), <i>Echinus esculentus</i> (F) teleosts (O) including <i>Trisopterus</i> sp. (P). Stones support <i>Iophon nigricans</i> ? (R), <i>Phakellia ventilabrum</i> / <i>Axinella infundibuliformis</i> (R), serpulid worms (R), <i>Salmacina dysteri</i> / <i>Filograna implexa</i> (R), <i>Novocrania anomala</i> (C locally), <i>Terebratulina retusa</i> (P). Field of <i>Leptometra celtica</i> (C, locally A) on stones and sediment for whole of run. Abandoned creel.	SS.SMu.CFiMu, CR.HCR.DpSp.PhaAxi	RF:ST	NS:DS, LC
FMA05_29.01	Soft mud skirting bedrock at times (<1%).	Mud burrowed by <i>Nephrops norvegicus</i> (C, 1 seen) and <i>Calocaris macandreae</i> (C). <i>Cerianthus lloydii</i> (P), Caridea sp. (O), teleost sp. (O) including <i>Trisopterus</i> sp. (P). Rock with <i>Axinella infundibuliformis</i> / <i>Phakellia ventilabrum</i> (R) and <i>Iophon nigricans</i> ? (R).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA05_29.02	Silted bedrock slope (50%) with large mud patches (45%) and boulders (5%).	Mud with sparse megafaunal burrows including <i>Calocaris macandreae</i> (P), Caridea sp. (O) and <i>Mesothuria intestinalis</i> (P). Rock with <i>Phakellia ventilabrum</i> / <i>Axinella infundibuliformis</i> (F, locally A), <i>Iophon nigricans</i> ? (O), <i>Myxilla incrustans</i> ? (R), hydroids (O), Terebellidae sp. (P), <i>Sabella pavonina</i> (C locally), serpulid worms (P), <i>Novocrania anomala</i> (P), <i>Dendrodoa grossularia</i> ? (P). <i>Munida</i> spp. (P), <i>Porania pulvillus</i> (P).	SS.SMu.CFiMu, CR.HCR.DpSp.PhaAxi	RF:ST	NS:DS

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA05_29.03	Soft mud with sparse cobbles (<1%).	Mud burrowed by <i>Nephrops norvegicus</i> (F), <i>Calocaris macandreae</i> (C) and smaller burrows. <i>Sabella pavonina</i> (F), <i>Caridea</i> sp. (P), <i>Amphiura</i> spp. (A), <i>Mesothuria intestinalis</i> (C), teleost sp. (P).	SS.SMu.CFiMu.Spnmeg		BM:SB
FMA05_29.04	Silted bedrock (20%) including small cliffs, and mud (50%) with cobbles (5%) and boulders (25%)	Mud with very sparse megafaunal burrows. One <i>Nephrops norvegicus</i> seen amongst boulders, but no burrows observed. <i>Amphiura</i> spp. (C). Rock with <i>Phakellia ventilabrum</i> / <i>Axinella infundibuliformis</i> (O, locally C), <i>Iophon nigricans?</i> (O), <i>Myxilla incrustans?</i> (R), <i>Polymastia penicillus?</i> (R), yellow encrusting sponge? (R) <i>Salmacina dysterii</i> / <i>Filograna implexa</i> (R), <i>Terebellidae</i> sp. (P), <i>Sabella pavonina</i> (F, locally C), <i>Terebratulina retusa</i> (P). <i>Munida</i> spp. (O).	SS.SMu.CFiMu, CR.HCR.DpSp.PhaAxi	RF:ST, RF:BR	NS:DS
FMA05_29.05	Mud.	Mud burrowed by <i>Nephrops norvegicus</i> (P), <i>Calocaris macandreae</i> (F) and smaller burrowers. <i>Pachycerianthus multiplicatus</i> (P), <i>Sabella pavonina</i> (F), <i>Caridea</i> sp. (O), <i>Mesothuria intestinalis</i> (C), teleost sp. (P)	SS.SMu.CFiMu.Spnmeg		BM:SB, BM:PM
FMA05_30.01	Muddy sand (62%) with gravel (30% - mostly shell) and pebbles (8%).	Sparse visible fauna including <i>Munida rugosa</i> (P), small <i>Pectiniidae</i> sp. (P), <i>Henricia</i> sp. (P), <i>Porania pulvillus</i> (P). Single <i>Nephrops norvegicus</i> burrow.	SS.SMu.CSaMu		
FMA05_30.02	Silted bedrock with patches of shelly, sandy mud (10%).	Rock supports <i>Axinella infundibuliformis</i> / <i>Phakellia ventilabrum</i> (F), <i>Iophon nigricans?</i> (R), <i>Sabella pavonina</i> tubes (P), <i>Novocrania anomala</i> (C), <i>Terebratulina retusa</i> (P), <i>Ascidia mentula</i> (O), <i>A. virginea</i> (O). <i>Munida</i> spp. (F), <i>Porania pulvillus</i> (O), teleost spp. (O).	CR.HCR.DpSp.PhaAxi, SS.SMu.CSaMu	RF:BR	NS:DS
FMA05_30.03	Shelly (5%), sandy mud.	Mud with many burrows of <i>Nephrops norvegicus</i> (C, 14 animals seen) and smaller burrows including <i>Calocaris macandreae</i> (F). <i>Cerianthus lloydii</i> (O), <i>Munida</i> spp. (F), juvenile <i>Rajidae</i> sp. (P).	SS.SMu.CFiMu.Spnmeg		BM:SB

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA05_31	Cohesive, gravelly (10%) muddy sand (86%) with scattered pebbles (2%), cobbles (1%) and boulders (1%); stones denser in patches.	<i>Nephrops norvegicus</i> burrows (F) but megafaunal burrows otherwise sparse, including <i>Calocaris macandreae</i> (O). <i>Pennatula phosphorea</i> (R), <i>Arctica islandica</i> siphons? (P). Stones support pink encrusting coralline algae (R), serpulid worms including <i>Serpula vermicularis</i> (R), <i>Salmacina dysterii</i> / <i>Filograna implexa</i> (R), <i>Balanus balanus</i> (R) and <i>Novocrania anomala</i> (locally C). Sabellidae sp. (R), <i>Munida rugosa</i> (F), <i>Turritella communis</i> shells (F) of which some at least house Paguridae spp., Crinoidea sp. (R), <i>Asterias rubens</i> (O), <i>Porania pulvillus</i> (O), <i>Echinus esculentus</i> (P), <i>Ascidia mentula</i> (F), <i>A. virginea</i> (O), <i>Diazona violacea</i> (F).	SS.SMu.CSaMu		AI?
FMA05_32	Shelly (5% shell gravel) sandy mud with scattered cobbles (5%) and boulders (1%); stones denser locally.	Mud with <i>Calocaris macandreae</i> burrows (F), <i>Nephrops norvegicus</i> (F, 1 seen), smaller burrows (P) and <i>Pachycerianthus multiplicatus</i> (P). Rock with <i>Phakellia ventilabrum</i> / <i>Axinella infundibuliformis</i> (F on rock), <i>Iophon nigricans</i> ? (O on rock), <i>Novocrania anomala</i> (C locally), <i>Ascidia mentula</i> (O), <i>A. virginea</i> (O), <i>Diazona violacea</i> (P). <i>Munida</i> spp. (F), <i>Turritella communis</i> shells (P, possibly unoccupied), small Pectiniidae sp. (P), field of <i>Leptometra celtica</i> (where C) on sediment and stones, <i>Porania pulvillus</i> (O).	SS.SMu.CFiMu.SpnMeg, CR.HCR.DpSp.PhaAxi		BM:SB, BM:PM, LC
FMA05_33.01	Sandy mud with scattered cobbles towards end (<1% overall).	Mud burrowed by <i>Nephrops norvegicus</i> (F, 1 seen) and smaller burrows including <i>Calocaris macandreae</i> (C). Terebellidae sp. (P), worm casts (P), <i>Sabella pavonina</i> (O), Caridea sp. (O), <i>Munida</i> spp. (F), <i>Ophiura</i> sp. (P), <i>Amphiura</i> spp. (A), <i>Mesothuria intestinalis</i> (F), <i>Glyptocephalus cyanoglossus</i> ? (P). Stones with hydroids (R) and <i>Axinella infundibuliformis</i> / <i>Phakellia ventilabrum</i> (O).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA05_33.02	Mud (55%) with varying densities of pebbles (5%), cobbles (20%) and boulders (20%)	Mud with sparse megafaunal burrows including <i>Calocaris macandreae</i> (P), Caridea sp. (P), <i>Amphiura</i> spp. (C) and <i>Mesothuria intestinalis</i> (O). Stones with <i>Phakellia ventilabrum</i> / <i>Axinella infundibuliformis</i> (F), <i>Iophon nigricans</i> ? (P), <i>Myxilla incrustans</i> ? (R), <i>Polymastia penicillus</i> (P), cream encrusting sponge (R), hydroids (O), Terebellidae sp. (P), <i>Sabella pavonina</i> tubes (P), <i>Serpula vermicularis</i> (R), <i>Novocrania anomala</i> (C on rock), erect bryozoans (R), <i>Ascidia mentula</i> (P), <i>Corella parallelogramma</i> (P), . <i>Munida</i> spp. (F), <i>Echinus esculentus</i> (F).	SS.SMu.CFiMu, CR.HCR.DpSp.PhaAxi	RF:ST	NS:DS

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
FMA05_33.03	Mud with scattered cobbles (2%) and boulders (2%).	Mud burrowed by <i>Nephrops norvegicus</i> (P, 1 seen), <i>Calocaris macandreae</i> (C) and smaller burrowers. <i>Sabella pavonina</i> (O), Caridea sp. (O), <i>Munida</i> spp. (O), <i>Amphiura</i> spp. (A), <i>Mesothuria intestinalis</i> (F), <i>Echinus esculentus</i> (F), teleost sp. (P). Stones with <i>Axinella infundibuliformis</i> / <i>Phakellia ventilabrum</i> (O).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA05_34.01	Mud.	Mud with burrowers including <i>Calocaris macandreae</i> (C), <i>Nephrops norvegicus</i> (F, 1 seen) and small paired holes (<5 mm) (P). Caridea sp. (P), <i>Munida</i> spp. (O), Crinoidea sp.? (P), <i>Mesothuria intestinalis</i> ? (P).	SS.SMu.CFiMu.SpnMeg		BM:SB
FMA05_34.02	Mixed sediment of mud (65%), gravel (10%, much of it shell) and pebbles (15%) with scattered cobbles (5%) and boulders (5%).	Sparse burrows, <i>Nephrops norvegicus</i> (P), Caridea sp. (O), <i>Mesothuria intestinalis</i> (F), <i>Munida</i> spp. (F). Stones supporting <i>Axinella infundibuliformis</i> / <i>Phakellia ventilabrum</i> (O), <i>Sabella pavonina</i> (locally C), <i>Novocrania anomala</i> (locally C).	SS.SMx.CMx, CR.HCR.DpSp.PhaAxi	RF:ST	NS:DS
FMA05_34.03	Bedrock slope and cliff (45%) with mud pockets (45%) with scattered cobbles (5%) and boulders (5%).	Mud with <i>Calocaris macandreae</i> burrows (F, locally C), smaller burrows (P), <i>Cerianthus lloydii</i> (P) and Caridea sp. (O). Rock with <i>Phakellia ventilabrum</i> and possibly <i>Axinella infundibuliformis</i> (F, locally C), <i>Iophon nigricans</i> ? (O), <i>Myxilla incrustans</i> ? (R), <i>Sabella pavonina</i> (locally A), <i>Novocrania anomala</i> (P). <i>Munida</i> spp. (O), <i>Echinus esculentus</i> (P).	SS.SMu.CFiMu.SpnMeg, CR.HCR.DpSp.PhaAxi	RF:BR	BM:SB, NS:DS
FMA05_34.04	Soft mud.	Burrowed mud with burrowers including <i>Calocaris macandreae</i> (C), <i>Nephrops norvegicus</i> (F, 1 seen) and small holes (<5 mm) (P). Caridea sp. (P), <i>Munida</i> sp. (P), teleost sp. (P)	SS.SMu.CFiMu.SpnMeg		BM:SB
SH_V16.01	Mixed sediment of medium-coarse sand (40%) with shells (35%) including <i>Modiolus</i> , gravel (10%) and pebbles (15%).	<i>Alcyonium digitatum</i> (R), <i>Urticina</i> sp.? (R), serpulid worms (C), <i>Pecten maximus</i> (O), <i>Flustra foliacea</i> (R), <i>Crossaster papposus</i> (P), <i>Asterias rubens</i> (F), <i>Luidia ciliaris</i> (P), <i>Ophiocoma nigra</i> (C), <i>Echinus esculentus</i> (C), <i>Callionymus</i> sp. (R).	SS.SMx.CMx		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V16.02	Faintly-rippled medium sand (94%) with scattered gravel (5%) and shells (1%).	Serpulid worms (P), molgulid sp. (C).	SS.SSa.CFiSa		
SH_V16.03	Mixed sediment of coarse sand (50%) with gravel (10%) and shells (40%) including <i>Modiolus</i> and <i>Ensis</i> .	Shell with serpulid worms (F) and <i>Parasmittina trispinosa</i> (R). Hydroids (R), <i>Pecten maximus</i> (P), molgulid sp. (C locally), <i>Solaster endeca</i> (P), <i>Asterias rubens</i> (F), <i>Luidia ciliaris</i> (F), <i>Ophiocomina nigra</i> (P), <i>Ophiura albida</i> (P), <i>Echinus esculentus</i> (F).	SS.SMx.CMx		
SH_V16.04	Rippled fine-medium sand (97%), initially with some scattered gravel (3%) and shells (<1%) including <i>Ensis</i> and <i>Arctica</i> .	<i>Alcyonium digitatum</i> (R), Sabellidae sp. (P), molgulid sp. (F, locally C), <i>Pecten maximus</i> (P), <i>Asterias rubens</i> (F), <i>Echinus esculentus</i> (F), <i>Callionymus</i> sp. (O), Gobiidae spp. (O).	SS.SSa.CFiSa		
SH_V17.01	Slightly rippled, fine-medium sand (94%) with scattered gravel (5%) and shells (1%) including <i>Arctica</i> and <i>Ensis</i> .	Hydroids (R), <i>Spirobranchus</i> spp. (P), <i>Cancer pagurus</i> (P), <i>Buccinum undatum?</i> (R), <i>Pecten maximus</i> (F), <i>Asterias rubens</i> (P), <i>Ophiocomina nigra</i> (O), <i>Ophiura ophiura</i> (R), <i>Echinus esculentus</i> (P), Molgulidae sp. (P), Pleuronectiformes sp. (P), <i>Pleuronectes platessa</i> (P), emergent infaunal tubes (P). Pile of old fish boxes? Gradual transition with following biotope.	SS.SSa.CFiSa		
SH_V17.02	Medium-coarse sand (80%) with scattered gravel (15%), pebbles (3%) and shells (2%) including <i>Ensis</i> , and sparse boulders (<1%).	Hydroids (R), <i>Cancer pagurus</i> (O), <i>Buccinum undatum</i> (R), <i>Pecten maximus</i> (F), <i>Flustra foliacea</i> (R), <i>Asterias rubens</i> (P), <i>Porania pulvillus</i> (R), <i>Henricia</i> sp. (R), <i>Luidia ciliaris</i> (F), <i>Ophiocomina nigra</i> (O), <i>Echinus esculentus</i> (O), <i>Eutrigla gurnardus</i> (P), <i>Callionymus</i> sp. (R), small teleost sp. (R). Boulders with <i>Spirobranchus</i> spp. (where A), <i>Macropodia</i> sp. (R), <i>Ophiura albida</i> (R) and <i>Parasmittina trispinosa</i> (where F). Gradual transition with previous biotope.	SS.SCS.CCS		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V19.01	Scattered gravel (10%), pebbles (10%), cobbles (10%) and shells (10%) on coarse sand (60%).	Stones sparsely encrusted with pink coralline algae (R), serpulid worms (P) and orange bryozoan (R). <i>Pecten maximus</i> (F), <i>Aequipecten opercularis</i> (F), <i>Flustra foliacea</i> (R, possibly drift).	SS.SCS.CCS.SpiB		
SH_V19.02	Mosaic of bedrock outcrops (50%) and boulders (15%) and cobbles (15%) on coarse sand (15%) with gravel (2%) and pebbles (3%).	Rock encrusted with pink coralline algae (C, locally A), <i>Parasmittina trispinosa</i> (C, locally A), orange bryozoan (R) and <i>Spirobranchus</i> spp. (C) and supports <i>Caryophyllia smithii</i> (apparently generally absent but locally F), <i>Urticina</i> spp. (R) and foliose red algae (R). <i>Munida rugosa</i> (P), <i>Crossaster papposus</i> (O), <i>Asterias rubens</i> (F), <i>Stichastrella rosea</i> (O), <i>Porania pulvillus</i> (O), <i>Luidia ciliaris</i> (O), <i>Echinus esculentus</i> (C), teleost spp. (O), <i>Labrus mixtus</i> (O), large Labridae sp. (P), <i>Callionymus</i> sp. (R).	CR.MCR.EcCr.FaAlCr.Spi, SS.SCS.CCS		
SH_V19.03	Scattered gravel (15%), pebbles (30%), cobbles (2%) and shells (3%) on coarse sand (50%).	Stones sparsely encrusted with pink coralline algae (R) and serpulid worms (P). <i>Pecten maximus</i> (F), <i>Echinus esculentus</i> (P).	SS.SCS.CCS.SpiB		
SH_V19.04	Scattered gravel (20%), pebbles (2%) and shells (5%) on coarse sand (73%).	<i>Pecten maximus</i> (F), <i>Porania pulvillus</i> (O), <i>Echinus esculentus</i> (C), Molgulidae sp. (C initially).	SS.SCS.CCS		
SH_V20.01	Mixed substrate of coarse sand (35%), gravel (25%), pebbles (35%) and cobbles (5%).	Dense ophiuroid bed including <i>Ophiothrix fragilis</i> (S), <i>Ophiocomina nigra</i> (C, at least locally) and <i>Ophiopholis aculeata</i> (A, at least locally). Yellow cushion sponge (R), <i>Pecten maximus</i> (P).	SS.SMx.CMx.OphMx		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V20.02	Bedrock.	Rock encrusted with <i>Parasmittina trispinosa</i> (R) and <i>Spirobranchus</i> spp. (A) and supporting patches of hydroids (O) and <i>Alcyonium digitatum</i> (F). i Patchy ophiuroid bed with <i>Ophiothrix fragilis</i> (A, locally S) and <i>Ophiocomina nigra</i> (A). <i>Urticina</i> spp. (F), <i>Calliostoma zizyphinum</i> (P), <i>Crossaster papposus</i> (F), <i>Asterias rubens</i> (P), <i>Porania pulvillus</i> (P), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (C).	CR.MCR.EcCr.FaAlCr.Br		
SH_V20.03	Mixed substrate of coarse sand (40%), gravel (20%), pebbles (35%) and cobbles (5%).	Dense ophiuroid bed including <i>Ophiothrix fragilis</i> (S), <i>Ophiocomina nigra</i> (A, at least locally) and <i>Ophiopholis aculeata</i> (P). Serpulid worms (C), <i>Crossaster papposus</i> (P), teleost sp. (P).	SS.SMx.CMx.OphMx		
SH_V20.04	Mosaic of bedrock outcrops (20%) and boulders (30%) with coarse sand (20%) with gravel (10%) and pebbles (20%).	Rock encrusted with <i>Parasmittina trispinosa</i> (R) and <i>Spirobranchus</i> spp. (A) and supporting patches of hydroids (O) and <i>Alcyonium digitatum</i> (O). Patchy ophiuroid bed with <i>Ophiothrix fragilis</i> (S), <i>Ophiocomina nigra</i> (A) and <i>Ophiopholis aculeata</i> (A). <i>Urticina</i> spp. (P), <i>Crossaster papposus</i> (F), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (C).	CR.MCR.EcCr.FaAlCr.Br i, SS.SMx.CMx.OphMx		
SH_V20.05	Mixed substrate of coarse sand (40%), gravel (20%), pebbles (35%), cobbles (5%) and boulders (<1%).	Dense ophiuroid bed including <i>Ophiothrix fragilis</i> (S), <i>Ophiocomina nigra</i> (A, at least locally) and <i>Ophiopholis aculeata</i> (A, at least locally). <i>Urticina</i> spp. (O), serpulid worms (C), <i>Spirobranchus</i> spp. (A locally on boulders), <i>Pecten maximus</i> (P), <i>Crossaster papposus</i> (F), <i>Echinus esculentus</i> (P).	SS.SMx.CMx.OphMx		
SH_V20.06	Mixed sediment of coarse sand (70%), gravel (5%) and pebbles (25%).	<i>Ophiocomina nigra</i> (F).	SS.SMx.CMx		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V20.07	Variable mixed sediment of coarse sand, gravel and pebbles with <i>Modiolus</i> shells reaching 100% cover locally.	Dense ophiuroid bed including <i>Ophiothrix fragilis</i> (S) and <i>Ophiocomina nigra</i> (P). <i>Urticina</i> spp. (P), serpulid worms (C) including <i>Spirobranchus</i> spp. (P), <i>Flustra foliacea</i> (R), <i>Asterias rubens</i> (P), <i>Crossaster papposus</i> (F).	SS.SMx.CMx.OphMx		
SH_V20.08	Coarse sand (65%), gravel (15%), <i>Modiolus</i> shells (20%), boulders (<1%).	Shells with serpulid worms (F) and orange bryozoan (R). Boulder with <i>Spirobranchus</i> spp. (where A). <i>Urticina</i> sp. (P), <i>Flustra foliacea</i> (R), <i>Luidia ciliaris</i> (P), sparse ophiuroids (F) including <i>Ophiocomina nigra</i> and <i>Ophiothrix fragilis</i> .	SS.SCS.CCS		
SH_V20.09	Mosaic of bedrock outcrops (60%, possibly including some boulders) and coarse sand patches (35%) with gravel (2%), pebbles (2%) and cobbles (1%).	Patchy ophiuroid bed with <i>Ophiopholis aculeata</i> (locally S) but visibility too poor to assess typicality. Rock encrusted with <i>Spirobranchus</i> spp. (A) and hydroids (O) including <i>Abietinaria abietina</i> . <i>Asterias rubens</i> (P), <i>Porania pulvillus</i> (P), <i>Echinus esculentus</i> (C).	CR.MCR.EcCr.FaAlCr.Br i, SS.SCS.CCS		
SH_V20.10	Mixed sediment of coarse sand (50%), gravel (20%), pebbles (20%) and <i>Modiolus</i> shells (10%).	Stones and shells with serpulid worms (F) including <i>Spirobranchus</i> spp. <i>Urticina</i> sp. (P), <i>Luidia ciliaris</i> (P), small teleost sp. (P). Ophiuroids (both <i>Ophiothrix fragilis</i> and <i>Ophiocomina nigra</i>) are present but density uncertain.	SS.SMx.CMx		
SH_V20.11	Visibility poor but mostly bedrock (c.60%) with boulders (16%) and cobbles (5%) and patches of coarse sand (15%) with gravel (2%) and pebbles (2%).	Poor visibility but evidently patchy ophiuroid bed with ophiuroid spp. (probably S overall). Rock encrusted with <i>Spirobranchus</i> spp. (A) and supporting hydroids (O) and <i>Alcyonium digitatum</i> (R). <i>Urticina</i> spp. (F), <i>Crossaster papposus</i> (F), <i>Asterias rubens</i> (P), <i>Solaster endeca</i> (P), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (C). Fishing net and cables trapped by rocks.	CR.MCR.EcCr.FaAlCr.Br i, SS.SCS.CCS		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V21	Mixed substrate of coarse sand (35%), gravel (35%), pebbles (15%) and shells (10%) including <i>Arctica</i> , with cobbles (4%) and boulders (1%).	Large stones encrusted with <i>Parasmittina trispinosa</i> (where O, R overall) and <i>Spirobranchus</i> spp. (where A). <i>Alcyonium digitatum</i> (R), <i>Urticina felina</i> (R), serpulid worms (C) including <i>Protula tubularia</i> (P), <i>Munida rugosa</i> (R), Paguridae spp. (O), <i>Cancer pagurus</i> (P), <i>Pecten maximus</i> (O), <i>Flustra foliacea</i> (O, locally F), <i>Crossaster papposus</i> (O), <i>Asterias rubens</i> (F), <i>Porania pulvillus</i> (F), <i>Stichastrella rosea</i> (O), <i>Luidia ciliaris</i> (P), <i>Ophiocomina nigra</i> (O), <i>Echinus esculentus</i> (F), <i>Ascidia virginea</i> (R), small teleost spp. (O).	SS.SMx.CMx.FluHyd		
SH_V23.01	Megaripples of coarse sand (80%) with gravel (10%) and shells (10%) in troughs; boulders (<1%), cobbles <1%).	<i>Pecten maximus</i> (R), Molgulidae sp. (C), <i>Asterias rubens</i> (O), <i>Solaster endeca</i> (P), <i>Ophiocomina nigra</i> (C), <i>Ophiura ophiura</i> (R), <i>Echinus esculentus</i> (F), teleost spp. (R). Stones with <i>Parasmittina trispinosa</i> (R) and <i>Spirobranchus</i> spp. (R).	SS.SCS.CCS		
SH_V23.02	Small bedrock outcrops (25%), boulders (4%) and cobbles (1%) on rippled medium-coarse sand (70%).	Rock encrusted with pink coralline algae (R), <i>Parasmittina trispinosa</i> (where F) and <i>Spirobranchus</i> spp. (where A). <i>Ophiocomina nigra</i> (C).	CR.MCR.EcCr.FaAlCr.Spi, SS.SCS.CCS		
SH_V23.03	Medium-coarse sand (60%) with dense surface scatter of gravel (15%) and pebbles (24%) and occasional cobbles (1%) and boulders (<1%).	Stones with generally fairly sparse epibiota of serpulid worms (F, but <i>Spirobranchus</i> spp. locally A on boulders) and <i>Parasmittina trispinosa</i> (R). <i>Ophiocomina nigra</i> (C), <i>Echinus esculentus</i> (C), teleost spp. (O).	SS.SCS.CCS.SpiB		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V23.04	Megaripples of coarse sand (55%) with gravel (15%) and shells (30%).	Bivalve siphons (P), <i>Pecten maximus</i> (O), <i>Eledone cirrhosa</i> (P), <i>Ophiocomina nigra</i> (O), <i>Luidia ciliaris</i> (F), <i>Echinus esculentus</i> (F), small teleost spp. (O).	SS.SCS.CCS		
SH_V24.01	Live <i>Modiolus</i> (10%), dead <i>Modiolus</i> shells (70%), shell gravel (10%) and coarse sand (10%).	<i>Modiolus modiolus</i> (A, at least locally, but bed patchy towards end of run), hydroids (O), serpulid worms (C), <i>Pecten maximus</i> (P), <i>Eledone cirrhosa</i> (P), <i>Crossaster papposus</i> (F), <i>Asterias rubens</i> (F), <i>Ophiopholis aculeata</i> (S), <i>Ophiothrix fragilis</i> (A locally), <i>Ophiocomina nigra</i> (P), <i>Echinus esculentus</i> (C), <i>Ciona intestinalis</i> (C locally). Position of boundary with following biotope uncertain.	SS.SBR.SMus.ModT, SS.SMx.CMx.OphMx		HM:TS
SH_V24.02	<i>Modiolus</i> shells (40%) on coarse sand (50%) with gravel (10%).	Shells with sparse pink coralline algae (R) and serpulid worms (F). Ophiuroids generally at low density but small patches where up to S (including <i>Ophiopholis aculeata</i> , <i>Ophiocomina nigra</i> and <i>Ophiothrix fragilis</i>). <i>Cancer pagurus</i> (P), <i>Crossaster papposus</i> (P), <i>Echinus esculentus</i> (P), small teleost sp. (P). Some live <i>Modiolous modiolus</i> may be present. Traversed two lengths of fouled rope.	SS.SMx.CMx		
SH_V24.03	Boulders (60%) and cobbles (20%) on coarse sand (15%) with pebbles (3%) and gravel (2%).	Boulders and larger cobbles encrusted with pink coralline algae (A), <i>Parasmittina trispinosa</i> (O) and <i>Spirobranchus</i> spp. (C, locally A) and supporting hydroids (O). Much of sand and smaller stones with cover of ophiuroids including <i>Ophiothrix fragilis</i> (where S), <i>Ophiocomina nigra</i> and <i>Ophiopholis aculeata</i> . <i>Crossaster papposus</i> (P), <i>Asterias rubens</i> (F), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (C), small teleost sp. (P).	CR.MCR.EcCr.FaAlCr.S pi, SS.SMx.CMx.OphMx		
SH_V24.04	Mixed substrate of coarse sand (15%), gravel (20%), shell (10%), pebbles (50%), cobbles (5%) and boulders (<1%).	Pink encrusting coralline algae (O), <i>Parasmittina trispinosa</i> (R) and serpulid worms (P) including <i>Spirobranchus</i> spp. (C locally), hydroids (O) and <i>Alcyonium digitatum</i> (R). Patches of dense ophiuroids (locally S) where <i>Ophiothrix fragilis</i> (A), <i>Ophiocomina nigra</i> (A) and <i>Ophiopholis aculeata</i> (A). <i>Crossaster papposus</i> (P), <i>Echinus esculentus</i> (C). Gradual transition with following biotope.	SS.SMx.CMx, SS.SMx.CMx.OphMx		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V24.05	Transition from pebbles and cobbles on sand (50%) to cobbles and boulders on sand (25%).	Stones encrusted with pink coralline algae (C, locally A), <i>Parasmittina trispinosa</i> (R) and sparse <i>Spirobranchus</i> spp. (P) and supporting hydroids (O, locally F). Much of sand and mostly smaller stones with cover of ophiuroids (S) including <i>Ophiothrix fragilis</i> , <i>Ophiocomina nigra</i> and <i>Ophiopholis aculeata</i> . <i>Pecten maximus</i> (P), <i>Eledone cirrhosa</i> (P), <i>Crossaster papposus</i> (F), <i>Echinus esculentus</i> (C, locally A).	CR.MCR.EcCr.FaAlCr, SS.SMx.CMx.OphMx		
SH_V24.06	Bedrock (35%), boulders (45%) and cobbles (5%) on coarse sand (15%).	Rock encrusted with pink coralline algae (A), <i>Parasmittina trispinosa</i> (R) and with sparse <i>Spirobranchus</i> spp. (P) and supporting hydroids (O), <i>Urticina</i> sp. (P) and <i>Alcyonium digitatum</i> (dense patches where C over large area). Camera briefly tracks over lower infralittoral patches where also red and brown algal crusts including <i>Cutleria multifida</i> , foliose red algae (R), <i>Laminaria hyperborea</i> (R) and scattered remains of <i>Alaria esculenta</i> . <i>Crossaster papposus</i> (F), <i>Asterias rubens</i> (O), <i>Porania pulvillus</i> (P), <i>Ophiocomina nigra</i> (R), <i>Echinus esculentus</i> (C), teleost spp. (P) including Labridae sp. (P) and small shoal of small species.	CR.MCR.EcCr.FaAlCr, CR.MCR.EcCr.FaAlCr.A dig		
SH_V25.01	Megaripples of coarse sand (75%) with gravel (10%) and shells (15%) concentrated in troughs.	Patchy ophiuroid bed with <i>Ophiothrix fragilis</i> (S) and <i>Ophiocomina nigra</i> (P); <i>Eutrigla gurnardus</i> (P).	SS.SMx.CMx.OphMx		
SH_V25.02	Low and often indistinct megaripples of coarse sand (75%) with gravel (10%) and shells (15%) locally concentrated in troughs.	Fairly dense bivalve siphons (C) with <i>Asterias rubens</i> (F), <i>Ophiocomina nigra</i> (C), <i>Echinus esculentus</i> (F) and <i>Eutrigla gurnardus</i> (P).	SS.SCS.CCS		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V25.03	Highly variable mixed substrates ranging from megaripples of coarse sand with shells to cobbles and sparse boulders on sand with pebbles and gravel.	Patchy ophiuroid bed but overall <i>Ophiothrix fragilis</i> (S) with <i>Ophiocomina nigra</i> (A locally) and <i>Ophiopholis aculeata</i> (P). Stones enrusted with pink coralline algae (R), <i>Parasmittina trispinosa</i> (R) and <i>Spirobranchus</i> spp. (locally A) and supporting hydroids (R) and <i>Flustra foliacea</i> (R). <i>Urticina</i> spp. (R), <i>Cancer pagurus</i> (O), <i>Pecten maximus</i> (O), <i>Eledone cirrhosa</i> (P), <i>Asterias rubens</i> (F), <i>Crossaster papposus</i> (F), <i>Porania pulvillus</i> (R), <i>Luidia ciliaris</i> (O), <i>Echinus esculentus</i> (F), <i>Scyliorhinus canicula</i> (P), <i>Eutrigla gurnardus</i> (P), <i>Callionymus</i> sp. (R).	SS.SMx.CMx.OphMx		
SH_V27	Hard-packed, slightly rippled, muddy sand with scattered shell gravel overall (5%) and shells (10%) including <i>Arctica</i> , but coarse material greater towards end and sparser initially.	Sediment very lightly burrowed by small megafaunal burrowers over first half of run. Anthozoa sp. (R), Paguridae spp. (F) including <i>Pagurus bernhardus</i> and <i>P. prideaux</i> with <i>Adamsia palliata</i> , <i>Cancer pagurus</i> (P), <i>Buccinum undatum</i> egg mass (R), <i>Aequipecten opercularis</i> (R), <i>Pecten maximus</i> (O), <i>Aequipecten opercularis</i> (R), <i>Eledone cirrhosa</i> (P), <i>Flustra foliacea</i> (R, possibly drift), <i>Crossaster papposus</i> (P), <i>Asterias rubens</i> (O), <i>Stichastrella rosea</i> (R), <i>Anseropoda placenta</i> (R), <i>Porania pulvillus</i> (O), <i>Luidia ciliaris</i> (O), <i>L. sarsi?</i> (P), <i>Ophiura ophiura</i> (F), solitary ascidian sp. (R), teleost spp. (O), <i>Trisopterus</i> sp. (O), Pleuronectiformes sp. (P), <i>Eutrigla gurnardus</i> (O), <i>Callionymus</i> sp. (R), <i>Lophius piscatorius</i> (P, 1 specimen). Although with a few megafaunal burrows, this run has been assigned to OSa as it is on the borderline between OSa and OMu initially and appears to have a low mud content (<20%) capable of only supporting very sparse burrows.	SS.SSa.OSa		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V27_2	Hard-packed, slightly rippled, muddy sand with scattered shell gravel (<1%) and shells (<1%) including <i>Arctica</i> .	Sediment lightly burrowed by megafaunal burrowers including possibly <i>Calocaris macandreae</i> . <i>Aphrodita aculeata</i> (R), Paguridae spp. (F) including <i>Pagurus bernhardus</i> and <i>P. prideaux</i> with <i>Adamsia palliata</i> , <i>Buccinum undatum</i> (R), <i>Pecten maximus</i> (R), <i>Asterias rubens</i> (O), <i>Astropecten irregularis?</i> (R), <i>Anseropoda placenta</i> (R), <i>Porania pulvillus</i> (R), <i>Ophiura ophiura</i> (F), small teleost spp. (F), <i>Eutrigla gurnardus</i> (F), <i>Callionymus</i> sp. (F), <i>Pleuronectes platessa</i> (P). Although with a few megafaunal burrows, this run has been assigned to OSa as it is on the borderline between OSa and OMu and appears to have a low mud content (<20%) capable of only supporting fairly sparse burrows. Slightly muddier than adjacent station SH_V27.	SS.SSa.OSa		
SH_V29.01	Bedrock (60%) and boulders (20%), with patches of coarse sand (5%) and shell gravel (5%) with shells (3%), pebbles (2%) and cobbles (5%)	Bedrock and stones encrusted with <i>Spirobranchus</i> spp. (A), <i>Balanus balanus</i> (P) and <i>Parasmittina trispinosa</i> (O) and supporting patchy ophiuroid bed with <i>Ophiocomina nigra</i> (generally A) and <i>Ophiothrix fragilis</i> in dense patches (where S). Hydroids (R) including <i>Abietinaria abietina</i> , <i>Munida rugosa</i> (R), <i>Pecten maximus</i> (P), <i>Flustra foliacea</i> (R), <i>Asterias rubens</i> (P), <i>Porania pulvillus</i> (O), <i>Luidia ciliaris</i> (F), <i>Stichastrella rosea</i> (O), <i>Hippasteria phrygiana</i> (R), <i>Echinus esculentus</i> (F), teleost spp. (O).	CR.MCR.EcCr.FaAlCr.Br i		
SH_V29.02	Megaripples of coarse sand (50%) with shell and stone gravel (15%), pebbles (10%) and shells (20%) with small bedrock outcrop (5%).	Paguridae spp. (F), <i>Ophiocomina nigra</i> (F). Rock with <i>Spirobranchus</i> spp., <i>Parasmittina trispinosa</i> , <i>Flustra foliacea</i> , <i>Ophiocomina nigra</i> and <i>Ophiothrix fragilis</i> .	SS.SCS.CCS		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V29.03	Bedrock.	Rock encrusted with <i>Spirobranchus</i> spp. (A) and supporting hydroids (O) including <i>Abietinaria abietina</i> (P), <i>Flustra foiacea</i> (R) and dense ophiuroids including <i>Ophiocomina nigra</i> (A) and <i>Ophiothrix fragilis</i> (S). <i>Crossaster papposus</i> (F), <i>Porania pulvillus</i> (P), <i>Echinus esculentus</i> (C).	CR.MCR.EcCr.FaAlCr.Br i		
SH_V29.04	Coarse sand (50%) with gravel (25%), pebbles (5%) and shells (20%), partly formed into megaripples.	Hydroids (R). emergent infaunal tube (P), Paguridae spp. (C), Molgulidae sp. (F, locally C), <i>Pecten maximus</i> (O), <i>Porania pulvillus</i> (P), <i>Ophiocomina nigra</i> (P), <i>Echinus esculentus</i> (F), small teleost sp. (P).	SS.SCS.CCS		
SH_V29.05	Bedrock.	Rock encrusted with <i>Spirobranchus</i> spp. (A locally) and supporting dense ophiuroids including <i>Ophiocomina nigra</i> (A) and <i>Ophiothrix fragilis</i> (S). Paguridae sp. (P), <i>Crossaster papposus</i> (P), <i>Echinus esculentus</i> (F), small teleost sp. (P).	CR.MCR.EcCr.FaAlCr.Br i		
SH_V29.06	Coarse sand (50%) with gravel (25%), pebbles (5%) and shells (20%).	<i>Ophiocomina nigra</i> (C).	SS.SCS.CCS		
SH_V29.07	Rugged, ridged bedrock (99%) with narrow channels and pockets of coarse sand (1%), gravel (<1%) and shells (<1%).	Rock encrusted with pink coralline algae (O, locally F), <i>Parasmittina trispinosa</i> (O), orange bryozoan (R) and <i>Spirobranchus</i> spp. (A) and supporting <i>Axinella infundibuliformis</i> (R), hydroids (R), <i>Urticina</i> sp. (R), <i>Alcyonium digitatum</i> (R), <i>Flustra foliacea</i> (R), <i>Ascidia mentula</i> (P) and areas of dense <i>Caryophyllia smithii</i> (where C). <i>Munida rugosa</i> (P), Paguridae spp. (O), <i>Calliostoma zizyphinum</i> (P), <i>Pecten maximus</i> (O), <i>Crossaster papposus</i> (F), <i>Asterias rubens</i> (P), <i>Porania pulvillus</i> (O), <i>Hippasteria phrygiana</i> (O), <i>Stichastrella rosea</i> (O), <i>Ophiocomina nigra</i> (R, locally A), <i>Echinus esculentus</i> (C), teleost spp. (F) including <i>Trisopterus</i> sp.	CR.MCR.EcCr.FaAlCr.S pi, CR.MCR.EcCr.FaAlCr.C ar		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V29.08	Rugged, ridged bedrock with narrow channels and pockets of coarse sand (<1%).	Rock encrusted with pink coralline algae (A), <i>Parasmittina trispinosa</i> (R, locally O), orange bryozoan (R) and sparse <i>Spirobranchus</i> spp. (P) and supporting <i>Axinella infundibuliformis</i> (O), hydroids (R), <i>Alcyonium digitatum</i> (O, locally F), <i>Ascidia mentula</i> (P) and areas of dense <i>Caryophyllia smithii</i> (where C). Paguridae spp. (P), <i>Crossaster papposus</i> (F), <i>Porania pulvillus</i> (O), <i>Hippasteria phrygiana</i> (O), <i>Stichastrella rosea</i> (O), <i>Ophiocomina nigra</i> (R, locally A), <i>Echinus esculentus</i> (C), <i>Trisopterus</i> sp. (P).	CR.MCR.EcCr.FaAlCr, CR.MCR.EcCr.FaAlCr.C ar		
SH_V29_2.01	Rippled medium sand.	Paguridae spp. (C), molgulid sp. (C), <i>Ophiocomina nigra</i> (O), <i>Leucoraja naevus</i> (P), teleost spp. (O), emergent infaunal tubes.	SS.SSa.CFiSa		
SH_V29_2.02	Bedrock outcrop.	Rock encrusted with <i>Parasmittina trispinosa</i> (R) and <i>Spirobranchus</i> spp. (A). Anthozoa sp. (P), <i>Ophiocomina nigra</i> (A) and very small patch of <i>Ophiothrix fragilis</i> <1 square metre (where S), <i>Echinus esculentus</i> (C).	CR.MCR.EcCr.FaAlCr.Br i		
SH_V29_2.03	Rippled medium sand.	Molgulid sp. (P), <i>Ophiocomina nigra</i> (C), <i>Scyliorhinus canicula</i> (P), small teleost spp. (F), emergent infaunal tubes.	SS.SSa.CFiSa		
SH_V29_2.04	Bedrock outcrop.	Rock encrusted with <i>Parasmittina trispinosa</i> (R) and <i>Spirobranchus</i> spp. (A). <i>Ophiocomina nigra</i> (A) and patches of <i>Ophiothrix fragilis</i> (where S), <i>Echinus esculentus</i> (P).	CR.MCR.EcCr.FaAlCr.Br i		
SH_V29_2.05	Rippled medium sand with gravel (5%).	Molgulid sp. (P), <i>Ophiocomina nigra</i> (C), small teleost sp. (P).	SS.SSa.CFiSa		
SH_V29_2.06	Bedrock outcrop.	Rock encrusted with <i>Parasmittina trispinosa</i> (R) and <i>Spirobranchus</i> spp. (A). <i>Ophiocomina nigra</i> (A) and patches of <i>Ophiothrix fragilis</i> (where S), <i>Porania pulvillus</i> (F), <i>Stichastrella rosea</i> (P), <i>Echinus esculentus</i> (C).	CR.MCR.EcCr.FaAlCr.Br i		
SH_V29_2.07	Rippled medium sand.	<i>Pecten maximus</i> (F), <i>Ophiocomina nigra</i> (F), Rajidae sp. juvenile (P), small teleost sp. (F), emergent infaunal tubes.	SS.SSa.CFiSa		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V29_2.08	Megaripples of coarse sand (70%) with gravel (30%) concentrated in troughs.	Paguridae spp. (C), <i>Eledone cirrhosa</i> (P), <i>Ophiocomina nigra</i> (P), small teleost sp. (P).	SS.SCS.CCS		
SH_V29_2.09	Rippled medium sand.	<i>Ophiocomina nigra</i> (P), small teleost sp. (C).	SS.SSa.CFiSa		
SH_V29_2.10	Ridged bedrock.	Rock encrusted with pink coralline algae (R), <i>Spirobranchus</i> spp. (A) and <i>Parasmittina trispinosa</i> (R). Paguridae sp. (P), <i>Ophiocomina nigra</i> (A), <i>Ophiothrix fragilis</i> (S), <i>Crossaster papposus</i> (F), <i>Porania pulvillus</i> (F), <i>Stichastrella rosea</i> (F), <i>Echinus esculentus</i> (C), teleost spp. (F) including <i>Trisopterus</i> sp.	CR.MCR.EcCr.FaAlCr.Br i		
SH_V29_2.11	Ridged bedrock (100%) with small sand pockets and channels with sand, gravel and pebbles (<1%).	Rock encrusted with pink coralline algae (F), <i>Spirobranchus</i> spp. (A) orange bryozoan (R) and <i>Parasmittina trispinosa</i> (O). <i>Urticina</i> sp. (R), Paguridae spp. (R), <i>Ophiocomina nigra</i> (R, locally A), <i>Ophiothrix fragilis</i> (R), <i>Crossaster papposus</i> (F), <i>Asterias rubens</i> (P), <i>Porania pulvillus</i> (O), <i>Stichastrella rosea</i> (O), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (C), <i>Ascidia mentula</i> (P), teleost spp. (F) including <i>Trisopterus</i> sp.	CR.MCR.EcCr.FaAlCr.S pi		
SH_V29_2.12	Dense gravel (30%), pebbles (40%) and cobbles (5%) with sand (25%).	<i>Pecten maximus</i> (F).	SS.SCS.CCS		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V29_2.13	Ridged bedrock (80%) with areas of boulders (12%) and cobbles (8%).	Rock encrusted with pink coralline algae (C, locally A), <i>Spirobranchus</i> spp. (A) orange bryozoan (R) and <i>Parasmittina trispinosa</i> (O). Hydroid clumps (R) including <i>Abietinaria abietina</i> and <i>Tubularia indivisa</i> , <i>Alcyonium digitatum</i> (R), <i>Urticina</i> sp. (R), <i>Munida rugosa</i> (R), Paguridae spp. (R), <i>Calliostoma zizyphinum</i> (R), <i>Flustra foliacea</i> (R), <i>Crossaster papposus</i> (F), <i>Porania pulvillus</i> (O), <i>Stichastrella rosea</i> (O), <i>Luidia ciliaris</i> (P), very small Asteroidea sp. (R), <i>Echinus esculentus</i> (C), <i>Ascidia mentula</i> (O), teleost spp. (O) including <i>Trisopterus</i> sp., large <i>Pollachius pollachius?</i> (O). Areas of dense <i>Caryophyllia smithii</i> (where C).	CR.MCR.EcCr.FaAlCr.Spi, CR.MCR.EcCr.FaAlCr.Car		
SH_V29_2.14	Megaripples of coarse sand (70%) with gravel (10%) and shells (20%) concentrated in troughs.	<i>Halcampoides elongatus</i> (P), <i>Urticina</i> sp. (R), Sabellidae sp. (R), Paguridae spp. (F), <i>Pecten maximus</i> (O), <i>Flustra foliacea</i> (R, but probably drift), <i>Asterias rubens</i> (F), <i>Stichastrella rosea</i> (R), <i>Porania pulvillus</i> (R), <i>Luidia ciliaris</i> (F), <i>Ophiocomina nigra</i> (R), <i>Echinus esculentus</i> (F), Molgulidae sp. (C locally), small teleost spp. (O) including <i>Trisopterus</i> sp.	SS.SCS.CCS		
SH_V30.01	Mosaic of low-relief bedrock outcrops (45%), boulders (5%) and coarse sand (45%) with gravel (5%).	Rock encrusted with pink coralline algae (C) and <i>Spirobranchus</i> spp. (A) and supporting hydroids (R), <i>Alcyonium digitatum</i> (O), <i>Caryophyllia smithii</i> (C locally), <i>Urticina</i> spp. (O) and <i>Flustra foliacea</i> (R). Patchy cover of ophiuroids with <i>Ophiothrix fragilis</i> (S) and <i>Ophiocomina nigra</i> (C). Sediment with <i>Pecten maximus</i> (P) and Molgulidae sp. (C locally). <i>Calliostoma zizyphinum</i> (P), <i>Echinus esculentus</i> (C), small teleost sp. (P).	CR.MCR.EcCr.FaAlCr.Br i, SS.SCS.CCS		
SH_V30.02	Initially around 60% coarse sand but increasing amounts of gravel, pebbles and cobbles along run until sand virtually obscured.	Variable densities of ophiuroids from sparse to areas with <i>Ophiocomina nigra</i> (A) and, towards end of run, <i>Ophiothrix fragilis</i> (locally S). <i>Urticina</i> sp. (P), <i>Pecten maximus</i> (O), <i>Flustra foliacea</i> (R), <i>Crossaster papposus</i> (F), <i>Asterias rubens</i> (P), <i>Porania pulvillus</i> (P), <i>Echinus esculentus</i> (F), Molgulidae sp. (C locally), pink encrusting coralline algae (R).	SS.SMx.CMx.OphMx, SS.SMx.CMx		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V30.03	Low-relief, sand-scoured bedrock.	Rock encrusted with pink coralline algae (C) and <i>Spirobranchus</i> spp. (A) and supporting <i>Abietinaria abietina</i> and <i>Urticina</i> sp. (P). <i>Crossaster papposus</i> (P), <i>Ophiothrix fragilis</i> (S), <i>Echinus esculentus</i> (C), large <i>Gadidae</i> sp. (P).	CR.MCR.EcCr.FaAlCr.Br i		
SH_V30.04	Varying from gravel and coarse sand to dense pebbles and cobbles; small bedrock outcrop (<1%).	Mostly dense bed of <i>Ophiothrix fragilis</i> (S) with <i>Ophiocomina nigra</i> (A, at least locally). Stones and rock with pink encrusting coralline algae (R), <i>Abietinaria abietina</i> (R), <i>Alcyonium digitatum</i> (R), <i>Urticina</i> sp. (P), <i>Flustra foliacea</i> (R) and <i>Spirobranchus</i> spp. (A locally). <i>Cancer pagurus</i> (P), <i>Pecten maximus</i> (P), <i>Crossaster papposus</i> (C), <i>Asterias rubens</i> (P), <i>Porania pulvillus</i> (P), <i>Echinus esculentus</i> (C), large <i>Dipturus batis</i> (P), <i>Scyliorhinus canicula</i> (P), teleost sp. (P).	SS.SMx.CMx.OphMx		DB
SH_V30.05	Largely a mosaic of bedrock outcrops (70%) and coarse sand (15%) and gravel (5%), with some boulders (5%) and cobbles (5%).	Rock encrusted with pink coralline algae (F), <i>Parasmittina trispinosa</i> (R, locally F), orange bryozoan (R) and <i>Spirobranchus</i> spp. (A) and supporting clumps of <i>Abietinaria abietina</i> (R), <i>Alcyonium digitatum</i> (R, locally F) and <i>Urticina</i> spp. (O) including <i>U. felina</i> (P). <i>Munida rugosa</i> (R), <i>Eledone cirrhosa</i> (P), <i>Crossaster papposus</i> (F), <i>Asterias rubens</i> (F), <i>Porania pulvillus</i> (P), <i>Luidia ciliaris</i> (F), <i>Ophiothrix fragilis</i> (S), <i>Ophiocomina nigra</i> (A, at least locally), <i>Ophiopholis aculeata</i> (locally A), <i>Echinus esculentus</i> (C), teleost sp. (P), <i>Trisopterus</i> sp. (P). Sand with <i>Molgulidae</i> sp. (C locally) and <i>Pecten maximus</i> (O).	CR.MCR.EcCr.FaAlCr.Br i, SS.SCS.CCS		
SH_V30.06	Coarse sand with varying quantities of gravel, pebbles, shells and some cobbles, the latter four generally with at least 60% cover.	Dense <i>Ophiothrix fragilis</i> (S) for most of run with <i>Ophiocomina nigra</i> (A for much of the rest of the run). Stones with pink encrusting coralline algae (R), hydroids (R), <i>Alcyonium digitatum</i> (R) and <i>Spirobranchus</i> spp. (locally A). <i>Pecten maximus</i> (O), <i>Crossaster papposus</i> (F), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (F), <i>Rajidae</i> sp. (P), <i>Eutrigla gurnardus</i> (P).	SS.SMx.CMx.OphMx		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V30.07	Mosaic of coarse sand (68%) and outcropping, low-relief bedrock (30%) with some pebbles (1%) and cobbles (1%).	Rock encrusted with pink coralline algae (O), <i>Parasmittina trispinosa</i> (R) and <i>Spirobranchus</i> spp. (A) and supporting <i>Alcyonium digitatum</i> (R). <i>Rock with Ophiothrix fragilis</i> (S), <i>Ophiocomina nigra</i> (P) and <i>Echinus esculentus</i> (C).	CR.MCR.EcCr.FaAlCr.Br i, SS.SCS.CCS		
SH_V30.08	Mixed substrate of dense pebbles (50%), shells (5%), cobbles (30%) with some boulders (5%) on coarse sand (10%).	Stones encrusted with pink coralline algae (R) and <i>Spirobranchus</i> spp. (A) and supporting <i>Alcyonium digitatum</i> (R). <i>Pecten maximus</i> (O), <i>Crossaster papposus</i> (F), <i>Ophiothrix fragilis</i> (S), <i>Ophiocomina nigra</i> (A), <i>Ophiopholis aculeata</i> (P) and <i>Echinus esculentus</i> (C), Gadidae sp. (P).	SS.SMx.CMx.OphMx		
SH_V30.09	Mosaic of bedrock (70%) and pebbles (10%), cobbles (5%) and boulders (5%) on coarse sand (10%).	Rock and stones encrusted with pink coralline algae (O), <i>Parasmittina trispinosa</i> (R) and <i>Spirobranchus</i> spp. (A) and supporting <i>Alcyonium digitatum</i> (R) and <i>Urticina</i> spp. (O). <i>Cancer pagurus</i> (P), <i>Asterias rubens</i> (F), <i>Crossaster papposus</i> (F), <i>Porania pulvillus</i> (O), <i>Ophiothrix fragilis</i> (S), <i>Ophiocomina nigra</i> (A), <i>Ophiopholis aculeata</i> (A) and <i>Echinus esculentus</i> (C).	CR.MCR.EcCr.FaAlCr.Br i, SS.SMx.CMx.OphMx		
SH_V30.10	Mosaic of bedrock (85%) and coarse sand patches (15%).	Rock encrusted with pink coralline algae (O), <i>Parasmittina trispinosa</i> (R) and <i>Spirobranchus</i> spp. (A) and supporting <i>Alcyonium digitatum</i> (R, locally F) and <i>Urticina</i> spp. (F). <i>Asterias rubens</i> (F), <i>Crossaster papposus</i> (F), <i>Ophiothrix fragilis</i> (S), <i>Ophiocomina nigra</i> (A), <i>Ophiopholis aculeata</i> (A) and <i>Echinus esculentus</i> (C).	CR.MCR.EcCr.FaAlCr.Br i, SS.SCS.CCS		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V36	Medium sand (fine sand locally) (65%) with gravel (30%) and shells (5%).	Dense Paguridae spp. (C) and <i>Aequipecten opercularis</i> (C). Serpulid worms (F) including <i>Protula tubularia</i> (P), <i>Sabella pavonina</i> (R), <i>Munida</i> sp. (R), <i>Cancer pagurus</i> (P), <i>Inachus</i> sp. (R), <i>Buccinum undatum</i> (R), <i>Pecten maximus?</i> (R), <i>Flustra foliacea</i> (R), <i>Astropecten irregularis?</i> (R), <i>Crossaster papposus</i> (O), small <i>Porania pulvillus</i> (O), <i>Stichastrella rosea</i> (R), <i>Luidia ciliaris</i> (O), <i>Ophiocomina nigra</i> (O), <i>Ophiura ophiura</i> (O), <i>Ascidia virginea?</i> (R), <i>Scylliorhinus canicula</i> (P), small teleost spp. (O) including <i>Trisopterus</i> sp. (O), emergent infaunal tubes (P).	SS.SMx.OMx		
SH_V38.01	Mostly megaripples of coarse sand (95%) with shells (5%) in troughs.	Paguridae sp. (P), <i>Pecten maximus</i> (P), <i>Astropecten irregularis?</i> (P), <i>Porania pulvillus</i> (P), <i>Ophiura ophiura</i> (P), <i>Echinus esculentus</i> (P), teleost spp. (F). Isolated boulder with hydroids (R), <i>Parasmittina trispinosa</i> (R) and <i>Spirobranchus</i> spp. (where A).	SS.SCS.CCS		
SH_V38.02	Flat, silted bedrock.	Rock encrusted with pink coralline algae (R), <i>Parasmittina trispinosa</i> (R) and serpulid worms (P) and supports dense <i>Caryophyllia smithii</i> (C, locally A). <i>Porania pulvillus</i> (F), <i>Ophiocomina nigra</i> (C), <i>Echinus esculentus</i> (F), small teleost spp. (F).	CR.MCR.EcCr.FaAlCr.C ar		
SH_V38.03	Boulders (20%) and cobbles (10%) on coarse sand (70%).	Rock encrusted with pink coralline algae (R), <i>Parasmittina trispinosa</i> (R) and <i>Spirobranchus</i> spp. (A) and supports <i>Caryophyllia smithii</i> (F, locally A). <i>Pecten maximus</i> (O), <i>Porania pulvillus</i> (P), <i>Solaster endeca</i> (P), <i>Luidia ciliaris</i> (P), <i>Ophiocomina nigra</i> (C), <i>Echinus esculentus</i> (P), small teleost spp. (O).	CR.MCR.EcCr.FaAlCr.C ar, SS.SCS.CCS		
SH_V38.04	Bedrock (65%), boulders (20%) and cobbles (10%) on sand (5%).	Rock encrusted with pink coralline algae (R), <i>Parasmittina trispinosa</i> (R) and <i>Spirobranchus</i> spp. (A) and supports <i>Caryophyllia smithii</i> (F, locally A, but visibility too poor to determine whether it is present throughout run). <i>Asterias rubens</i> (F), <i>Stichastrella rosea?</i> (P), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (P), <i>Ascidia mentula</i> (O), small teleost spp. (O) including <i>Trisopterus</i> sp. (O). Patches of dense ophiuroids with <i>Ophiothrix fragilis</i> (S locally) and <i>Ophiocomina nigra</i> (A locally).	CR.MCR.EcCr.FaAlCr.C ar, CR.MCR.EcCr.FaAlCr.Br i		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V38.05	Megaripples of coarse sand (90%) with shell gravel (8%) and shells (2%) in troughs.	Emergent infaunal tubes (P) and Molgulidae sp. siphons, <i>Asterias rubens?</i> (F), <i>Ophiura ophiura</i> (O), small teleopst spp. (F).	SS.SCS.CCS		
SH_V38.06	Slightly rippled and dimpled fine sand (98%) with shell gravel (2%).	Paguridae spp. (O), Molgulidae sp. siphons (P), <i>Eledone cirrhosa</i> (P), <i>Ophiura ophiura</i> (O), <i>Asterias rubens</i> (P), <i>Henricia</i> sp.? (P), <i>Luidia ciliaris</i> (P), <i>Astropecten irregularis?</i> (P), small teleosts (O), Pleuronectidae sp. (P)..	SS.SSa.CFiSa		
SH_V38.07	Small bedrock outcropping (95%) and boulders (5%).	Rock encrusted with <i>Parasmittina trispinosa</i> (O) and <i>Spirobranchus</i> spp. (C). <i>Asterias rubens</i> (P), <i>Ophiocomina nigra</i> (F), <i>Echinus esculentus</i> (P).	CR.MCR.EcCr.FaAlCr.Spi		
SH_V38.08	Slightly rippled and dimpled fine sand (95%) with shell gravel (5%).	Paguridae spp. (P), <i>Henricia</i> sp.? (P), small teleosts (F). Very brief glimpse (<2 m) of bedrock outcrop and boulders at very end of run with <i>Parasmittina trispinosa</i> (O), <i>Spirobranchus</i> spp. (A) and <i>Echinus esculentus</i> (C).	SS.SSa.CFiSa		
SH_V38_2.01	Slightly rippled, fine-medium sand (95%) with shell gravel (5%) and shells (<1%) including <i>Arctica</i> .	Sabellidae sp. (P), Paguridae spp. (F), <i>Eledone cirrhosa</i> (P), <i>Asterias rubens</i> (P), <i>Luidia ciliaris?</i> (P), small teleosts (O), Pleuronectiformes sp. (P).	SS.SSa.CFiSa		
SH_V38_2.02	Bedrock (50%), boulders (30%) and cobbles (10%) on sand (5%) with pebbles (5%).	Rock encrusted with pink coralline algae (R), <i>Parasmittina trispinosa</i> (O) and <i>Spirobranchus</i> spp. (A) and supports a yellow cushion sponge? (R) and <i>Ascidia mentula</i> (O). <i>Paguridae</i> spp. (O), <i>Pecten maximus</i> (O), <i>Porella compressa?</i> (P), <i>Crossaster papposus</i> (P), <i>Asterias rubens</i> (P), <i>Porania pulvillus</i> (O), <i>Stichastrella rosea</i> (O), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (C), small teleost spp. (F) including <i>Trisopterus</i> sp. (F). Ophiuroids with <i>Ophiura</i> sp.? (O), <i>Ophiothrix fragilis</i> (A locally) and <i>Ophiocomina nigra</i> (C locally) but not a bed.	CR.MCR.EcCr.FaAlCr.Spi		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V38_2.03	Megaripples of coarse sand (90%) with gravel (10%) in troughs; isolated boulder.	Boulder with <i>Spirobranchus</i> spp. (where A). Paguridae spp. (O), <i>Pecten maximus</i> (F), <i>Porania pulvillus</i> (P), <i>Ophiocomina nigra</i> (F), Molgulidae sp. (F), teleost spp. (F) including <i>Trisopterus</i> sp. (F).	SS.SCS.CCS		
SH_V38_2.04	Bedrock (60%), boulders (25%) and cobbles (10%) on sand (3%) with pebbles (2%).	Rock encrusted with pink coralline algae (R), <i>Parasmittina trispinosa</i> (O) and <i>Spirobranchus</i> spp. (A) and supports a yellow cushion sponge? (R), <i>Urticina</i> sp.? (P) and <i>Ascidia mentula</i> (O). Paguridae spp. (O), <i>Pecten maximus</i> (P), <i>Crossaster papposus</i> (F), <i>Porania pulvillus</i> (O), <i>Stichastrella rosea</i> (O), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (C), <i>Trisopterus</i> sp. (F), <i>Lophius piscatorius</i> (P). Can be considered a low density ophiuroid bed with <i>Ophiothrix fragilis</i> (S locally) and <i>Ophiocomina nigra</i> (A).	CR.MCR.EcCr.FaAlCr.Br		
SH_V38_2.05	Megaripples of coarse sand (90%) with gravel (5%) and shells (5%) in troughs.	Paguridae sp. (O), <i>Pecten maximus</i> (O), Small Asteroidea sp. (P), <i>Ophiura ophiura</i> (O), Molgulidae sp. (P), <i>Trisopterus</i> sp. (F), large teleost sp. (P). Small bedrock outcrop with <i>Parasmittina trispinosa</i> (where O), <i>Caryophyllia smithii</i> (where C) and <i>Spirobranchus</i> spp. (where C).	SS.SCS.CCS		
SH_V38_2.06	Flat, silted bedrock.	Rock encrusted with pink coralline algae (R), <i>Parasmittina trispinosa</i> (R) and <i>Spirobranchus</i> spp. (C) and supports hydroids (R), dense <i>Caryophyllia smithii</i> (C, locally A) and Anthozoa sp. (R). <i>Porania pulvillus</i> (F), <i>Ophiocomina nigra</i> (C), <i>Echinus esculentus</i> (F), small teleost spp. (F) including <i>Trisopterus</i> sp. (F).	CR.MCR.EcCr.FaAlCr.C ar		
SH_V38_2.07	Boulders (20%) and cobbles (10%) on coarse sand (70%).	Rock encrusted with pink coralline algae (R), <i>Parasmittina trispinosa</i> (R) and <i>Spirobranchus</i> spp. (A) and supports <i>Caryophyllia smithii</i> (F) and <i>Porella compressa</i> (P). <i>Pecten maximus</i> (P), <i>Ophiocomina nigra</i> (C), <i>Echinus esculentus</i> (F), <i>Trisopterus</i> sp. (F).	CR.MCR.EcCr.FaAlCr.C ar, SS.SCS.CCS		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V38_2.08	Bedrock (35%), boulders (50%) and cobbles (10%) on sand (5%).	Rock encrusted with pink coralline algae (R), <i>Parasmittina trispinosa</i> (R, locally O) and <i>Spirobranchus</i> spp. (A) and supports yellow cushion sponge? (R), <i>Caryophyllia smithii</i> (F, locally A), single clump of <i>Metridium dianthus</i> (P), and Anthozoa sp. (P). <i>Munida rugosa</i> (P), <i>Crossaster papposus</i> (P), <i>Stichastrella rosea</i> (F), <i>Porania pulvillus</i> (P), <i>Luidia ciliaris</i> (F), <i>Echinus esculentus</i> (F), <i>Ascidia mentula</i> (F), <i>Trisopterus</i> sp. (F). Areas of dense ophiuroids with <i>Ophiothrix fragilis</i> (S locally) and <i>Ophiocomina nigra</i> (A locally).	CR.MCR.EcCr.FaAlCr.C ar, CR.MCR.EcCr.FaAlCr.Br i		
SH_V38_2.09	Megaripples of coarse sand (90%) with shell gravel (8%) and shells (2%) in troughs.	<i>Cerianthus lloydii</i> ? (P), <i>Cancer pagurus</i> (P), <i>Asterias rubens</i> ? (P), <i>Ophiura ophiura</i> (P), Molgulidae sp. (C), <i>Trisopterus</i> sp. (F).	SS.SCS.CCS		
SH_V38_2.10	Slightly rippled, fine-medium sand (99%) with shell gravel (1%).	<i>Ophiura ophiura</i> (O), <i>Astropecten irregularis</i> ? (P), Molgulidae sp. (F), teleost spp. (F) including <i>Trisopterus</i> sp. (F).	SS.SSa.CFiSa		
SH_V40.01	Ridged bedrock (90%) and boulders (10%).	Rock encrusted with pink coralline algae (F), <i>Spirobranchus</i> spp. (A) and <i>Parasmittina trispinosa</i> (R). <i>Munida rugosa</i> (P), <i>Porania pulvillus</i> (P), <i>Asterias rubens</i> (F), <i>Crossaster papposus</i> (P), <i>Luidia ciliaris</i> ? (P), <i>Echinus esculentus</i> (C), <i>Ascidia mentula</i> (P). Patches of dense <i>Ophiothrix fragilis</i> (where S).	CR.MCR.EcCr.FaAlCr.S pi, CR.MCR.EcCr.FaAlCr.Br i		
SH_V40.02	Boulders (30%) and cobbles (35%) on coarse sand (15%) with gravel (5%) and pebbles (15%).	Stones encrusted with pink coralline algae (O), <i>Spirobranchus</i> spp. (A) and <i>Parasmittina trispinosa</i> (R). <i>Pecten maximus</i> (P), <i>Ophiocomina nigra</i> (C locally), <i>Ophiothrix fragilis</i> (A, locally S), <i>Echinus esculentus</i> (C), <i>Trisopterus</i> sp. (P).	CR.MCR.EcCr.FaAlCr.Br i		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V40.03	Megaripples of coarse sand (55%) with gravel (15%), pebbles (20%) cobbles (10%) and boulders (<1%) concentrated in troughs but also more widely scattered.	Larger stones encrusted with pink coralline algae (R), serpulid worms (P) and <i>Parasmittina trispinosa</i> (R). <i>Urticina</i> sp. (P), <i>Porania pulvillus</i> (P), <i>Ophiocomina nigra</i> (C), <i>Echinus esculentus</i> (F). Gradual transition with following biotope.	SS.SCS.CCS		
SH_V40.04	Gradually changing from mostly cobbles (30%) to mostly boulders (30%) on coarse sand (30%) with pebbles (10%).	Stones encrusted with pink coralline algae (R), <i>Spirobranchus</i> spp. (C, locally A) and <i>Parasmittina trispinosa</i> (O, locally C). Paguridae sp. (P), <i>Crossaster papposus</i> (F), <i>Asterias rubens</i> (F), <i>Porania pulvillus</i> (F), <i>Ophiocomina nigra</i> (C, locally A), <i>Echinus esculentus</i> (F), teleost sp. (P), <i>Trisopterus</i> sp.? (P).	CR.MCR.EcCr.FaAlCr.Spi, SS.SCS.CCS		
SH_V40.05	Ridged bedrock.	Rock encrusted with pink coralline algae (F), <i>Spirobranchus</i> spp. (A) and <i>Parasmittina trispinosa</i> (O). <i>Axinella infundibuliformis/Phakellia ventilabrum</i> (R), Hydroids (R), <i>Caryophyllia smithii?</i> (P), <i>Munida rugosa</i> (P), Paguridae sp. (P), <i>Porania pulvillus</i> (P), <i>Asterias rubens</i> (F), <i>Crossaster papposus</i> (F), <i>Henricia</i> sp. (P), <i>Stichastrella rosea?</i> (P), <i>Echinus esculentus</i> (C), <i>Ascidia mentula</i> (O), teleost spp. (O) including <i>Trisopterus</i> sp. (O). Patches of dense ophiuroids (where S) including <i>Ophiocomina nigra</i> and <i>Ophiothrix fragilis</i> .	CR.MCR.EcCr.FaAlCr.Spi, CR.MCR.EcCr.FaAlCr.Br i		
SH_V40.06	Slightly silted bedrock.	Rock encrusted with pink coralline algae (F), <i>Spirobranchus</i> spp. (C) and <i>Parasmittina trispinosa</i> (R). <i>Axinella infundibuliformis</i> (C), <i>Caryophyllia smithii</i> (C), <i>Crossaster papposus</i> (P), <i>Echinus esculentus</i> (C), <i>Ascidia mentula</i> (O), <i>Trisopterus</i> sp. (O). Low diversity example of biotope.	CR.HCR.DpSp.PhaAxi		NS:DS

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V40.07	Bedrock (10%) and boulders (90%).	Rock encrusted with pink coralline algae (C), <i>Spirobranchus</i> spp. (A) and <i>Parasmittina trispinosa</i> (O). <i>Axinella infundibuliformis</i> (O), <i>Caryophyllia smithii</i> (P), <i>Lithodes maja</i> (P), <i>Porella compressa?</i> (P), <i>Porania pulvillus</i> (O), <i>Asterias rubens</i> (F), <i>Crossaster papposus</i> (P), <i>Ophiocomina nigra</i> (O), <i>Echinus esculentus</i> (C).	CR.MCR.EcCr.FaAICr.Spi		
SH_V40.08	Bedrock, partially silted.	Rock encrusted with pink coralline algae (F), <i>Spirobranchus</i> spp. (C) and <i>Parasmittina trispinosa</i> (R). <i>Hydroids</i> (R), <i>Axinella infundibuliformis</i> (C in silted areas, F overall), <i>Caryophyllia smithii</i> (F, locally C), <i>Echinus esculentus</i> (C), <i>Trisopterus</i> sp. (F). Low diversity example of biotope.	CR.HCR.DpSp.PhaAxi		NS:DS
SH_V40.09	Ridged bedrock (30%), boulders (35%) and cobbles (35%).	Rock encrusted with pink coralline algae (C), <i>Spirobranchus</i> spp. (A) and <i>Parasmittina trispinosa</i> (R). <i>Axinella infundibuliformis</i> (O), <i>Porella compressa?</i> (P), <i>Porania pulvillus</i> (P), <i>Ophiocomina nigra</i> (O), <i>Echinus esculentus</i> (C), <i>Ascidia mentula</i> (P), teleost spp. (O) including <i>Trisopterus</i> sp. (P).	CR.MCR.EcCr.FaAICr.Spi		
SH_V40.10	Boulders (20%) and cobbles (25%) on coarse sand (30%) with gravel (10%) and pebbles (15%); small bedrock outcrop (<1%).	Rock encrusted with pink coralline algae (O), <i>Spirobranchus</i> spp. (C, locally A) and <i>Parasmittina trispinosa</i> (O). <i>Urticina</i> sp. (P), <i>Calliostoma zizyphinum</i> (P), <i>Porella compressa?</i> (P), <i>Ophiocomina nigra</i> (F, locally C), <i>Crossaster papposus</i> (F), <i>Echinus esculentus</i> (C), <i>Ascidia mentula</i> (P), teleost spp. (O), <i>Trisopterus</i> sp. (O).	CR.MCR.EcCr.FaAICr.Spi, SS.SCS.CCS		
SH_V40.11	Mostly megaripples of coarse sand (85%) with shells (15%) in troughs. Initially in transitional area much gravel and pebbles.	Paguridae spp. (O), <i>Pecten maximus</i> (P), bivalve siphons (P), <i>Asterias rubens</i> (F), <i>Luidia ciliaris</i> (P), <i>Ophiocomina nigra</i> (P), teleost spp. (O), <i>Trisopterus</i> sp. (O).	SS.SCS.CCS		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V41.01	Megaripples of coarse sand and gravel with dense gravel and pebbles in troughs becoming megaripples of coarse sand with shells, pebbles and cobbles.	Stones encrusted with pink coralline algae (R) and <i>Parasmittina trispinosa</i> (R). <i>Ophiocomina nigra</i> (C), <i>Echinus esculentus</i> (P), teleost spp. (O), <i>Trisopterus</i> sp. (O).	SS.SCS.CCS		
SH_V41.02	Ridged bedrock (94%) and dense boulders (3%) and cobbles (3%) on sand and some small sand patches (<1%).	Patchy ophiuroid bed dominated by <i>Ophiothrix fragilis</i> (S) with <i>Ophiocomina nigra</i> (C, locally A). Rock encrusted with pink coralline algae (C), <i>Spirobranchus</i> spp. (A) and <i>Parasmittina trispinosa</i> (O, locally A). Yellow cushion sponge (R), <i>Urticina</i> spp. (O), Paguridae spp. (R), <i>Cancer pagurus</i> (O), <i>Asterias rubens</i> (F), <i>Solaster endeca</i> (P), <i>Crossaster papposus</i> (F), <i>Stichastrella rosea</i> (P), <i>Marthasterias glacialis</i> (O), <i>Porania pulvillus</i> (O), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (C), <i>Ascidia mentula?</i> (P), teleost spp. (P) including small shoal of small species and <i>Trisopterus</i> sp.	CR.MCR.EcCr.FaAlCr.Br i		
SH_V41.03	Megaripples of coarse sand (50%) and gravel (40%) with pebbles (10%) concentrated in troughs.	<i>Ophiocomina nigra</i> (C), shoal of small teleosts.	SS.SCS.CCS		
SH_V41.04	Ridged bedrock (50%) and dense boulders (22%) and cobbles (22%) on coarse sand (6%).	Ophiuroid bed dominated by <i>Ophiothrix fragilis</i> (S) with <i>Ophiocomina nigra</i> (locally A). Rock encrusted with pink coralline algae (C), <i>Spirobranchus</i> spp. (C, locally A) and <i>Parasmittina trispinosa</i> (O, locally C). <i>Asterias rubens</i> (P), <i>Porania pulvillus</i> (P), <i>Echinus esculentus</i> (C), teleost spp. (F) including <i>Trisopterus</i> sp.	CR.MCR.EcCr.FaAlCr.Br i		
SH_V41.05	Bedrock (85%) and dense boulders (5%) and cobbles (8%) on coarse sand (2%).	Rock encrusted with pink coralline algae (C), brown algae (P), <i>Spirobranchus</i> spp. (C) and <i>Parasmittina trispinosa</i> (O, locally C). <i>Porania pulvillus</i> (P), <i>Echinus esculentus</i> (C).	CR.MCR.EcCr.FaAlCr.S pi		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V41.06	Megaripples of gravel (79%) and coarse sand (10%) with pebbles (10%), cobbles (1%) and boulders (<1%).	<i>Ophiocomina nigra</i> (C), boulders with pink coralline algae (R) and <i>Parasmittina trispinosa</i> (R).	SS.SCS.CCS		
SH_V41.07	Bedrock (25%) and dense field of boulders (30%) and cobbles (30%) on coarse sand (10%) with pebbles (5%).	Ophiuroid bed dominated by <i>Ophiothrix fragilis</i> (S) with <i>Ophiocomina nigra</i> (locally A). Rock encrusted with pink coralline algae (A), brown algae (P), <i>Spirobranchus</i> spp. (C) and <i>Parasmittina trispinosa</i> (R). <i>Alcyonium digitatum?</i> (R), <i>Urticina</i> spp. (P), <i>Asterias rubens</i> (O), <i>Crossaster papposus</i> (F), <i>Porania pulvillus</i> (R), <i>Echinus esculentus</i> (C), <i>Ascidia mentula</i> (P), <i>Scyliorhinus canicula</i> (P), teleost spp. (O) including <i>Trisopterus</i> sp. (O).	CR.MCR.EcCr.FaAlCr.Br i		
SH_V43.01	Silted bedrock platforms (96%), boulders (4%) and cobbles (<1%).	Rock supporting dense <i>Caryophyllia smithii</i> (C, locally A), <i>Spirobranchus</i> spp. (P) and <i>Axinella infundibuliformis</i> (F, locally C). <i>Suberites</i> sp.? (P), hydroids (O), <i>Munida</i> spp. (O), Paguridae spp. (F), <i>Lithodes maja</i> (P), <i>Cancer pagurus</i> (P), <i>Parasmittina trispinosa</i> (R), <i>Pecten maximus</i> (P), Crinoidea sp (R), <i>Stichastrella rosea</i> (O), <i>Porania pulvillus</i> (F), <i>Hippasteria phrygiana</i> (O), <i>Henricia</i> sp. (R), <i>Luidia ciliaris</i> (P), <i>Ophiocomina nigra</i> (O), <i>Echinus esculentus</i> (C), <i>Ascidia virginea?</i> (R), teleost spp. (O), <i>Trisopterus</i> sp. (F), <i>Molva molva?</i> (P). Low diversity example of biotope.	CR.HCR.DpSp.PhaAxi		NS:DS, MM
SH_V43.02	Coarse sand (90%), gravel (8%) and shells (2%).	Paguridae spp. (C), <i>Pecten maximus</i> (P), <i>Luidia ciliaris</i> (P), <i>Trisopterus</i> sp. (F).	SS.SCS.OCS		
SH_V43.03	Cohesive muddy sand.	<i>Cerianthus lloydii?</i> (R), Sabellidae sp. (P), Paguridae sp. (P), <i>Porania pulvillus</i> (P), teleost spp. (O), <i>Trisopterus</i> sp. (O). Fairly low density of small burrows. Numerous narrow, pink, 8 cm long, tube-like structures lying flat on sediment.	SS.SMu.OMu		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V43.04	Coarse sand (94%), gravel (5%) and shells (1%).	Paguridae spp. (F), <i>Pecten maximus</i> (P), <i>Porania pulvillus</i> (O), <i>Scylliorhinus</i> sp. (P), <i>Trisopterus</i> sp. (F).	SS.SCS.OCS		
SH_V43.05	Silted bedrock including many platforms (90%), boulders (10%) and cobbles (<1%) with small sediment pockets.	Rock supporting dense <i>Caryophyllia smithii</i> (F overall, locally A but sparse later in run), <i>Spirobranchus</i> spp. (C overall, A later in run) and <i>Axinella infundibuliformis</i> (F, locally C). Cream sponge (R), Hydroids (O), <i>Munida</i> spp. (O), Paguridae spp. (F), <i>Parasmittina trispinosa</i> (R), <i>Porella compressa?</i> (P), <i>Pecten maximus</i> (O), Crinoidea sp (R), <i>Stichastrella rosea</i> (O), <i>Porania pulvillus</i> (F), <i>Hippasteria phrygiana</i> (O), <i>Henricia</i> sp. (R), <i>Luidia ciliaris</i> (F), <i>Ophiocomina nigra</i> (O), <i>Echinus esculentus</i> (C), teleost spp. (P), <i>Trisopterus</i> sp. (F), large <i>Gadus morhua</i> (c.70 cm). Low diversity example of biotope.	CR.HCR.DpSp.PhaAxi		NS:DS, GM
SH_V44.01	Megarippled coarse sand with shells (15%) and gravel (5%) concentrated in troughs.	Paguridae spp. (F), <i>Asterias rubens</i> (P), <i>Ophiura ophiura</i> (P), large teleost sp. (P).	SS.SCS.CCS		
SH_V44.02	Rippled fine sand (93%) with surface scatter of shell gravel (5%) and shells (2%).	Paguridae spp. (F), large emergent bivalve (P), teleost spp. (F) including <i>Trisopterus</i> sp. (P).	SS.SSa.CFiSa		
SH_V44.03	Mosaic of boulders and/or small bedrock outcrops (40%) and sand (30%) with dense shells (30%) including much <i>Modiolus modiolus</i> .	Rock encrusted with <i>Spirobranchus</i> spp. (A) and possibly <i>Balanus</i> spp. (P) and <i>Parasmittina trispinosa</i> (R). Paguridae spp. (F), <i>Pecten maximus</i> (P), <i>Stichastrella rosea</i> (O), <i>Luidia ciliaris</i> (F), <i>Echinus esculentus</i> (F), <i>Trisopterus</i> sp. (O).	CR.MCR.EcCr.FaAlCr.Spi, SS.SMx.CMx		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V44.04	Megarippled coarse sand with shells (15%) and gravel (5%) concentrated in troughs.	Paguridae spp. (P), teleost spp. (F).	SS.SCS.CCS		
SH_V44.05	Rippled fine-medium sand (90%) with surface scatter of shell gravel (5%) and shells (5%).	Teleost spp. (F) including <i>Trisopterus</i> sp. (P).	SS.SSa.CFiSa		
SH_V44.06	Mosaic of boulders and/or small bedrock outcrops (40%) and sand (30%) with dense shells (30%) including much <i>Modiolus modiolus</i> .	Rock encrusted with <i>Spirobranchus</i> spp. (A), <i>Serpula vermicularis</i> ? (P) and <i>Parasmittina trispinosa</i> (R). Hydroids (R), Paguridae spp. (F), <i>Crossaster papposus</i> (F), <i>Stichastrella rosea</i> (P), <i>Luidia ciliaris</i> (P), <i>Echinus esculentus</i> (F), teleost sp. (P), <i>Trisopterus</i> sp. (F). Length of old rope.	CR.MCR.EcCr.FaAlCr.Spi, SS.SMx.CMx		
SH_V44.07	Rippled fine-medium sand (95%) with surface scatter of gravel (5%).	Paguridae spp. (F), <i>Trisopterus</i> sp. (P), emergent infaunal tubes (P).	SS.SSa.CFiSa		
SH_V44.08	Mosaic of boulders (20%) and small bedrock outcrops (20%) and sand (30%) with dense shells (30%) including much <i>Modiolus modiolus</i> ; small patch of megaripples..	Rock encrusted with <i>Spirobranchus</i> spp. (A, locally C) and <i>Parasmittina trispinosa</i> (R). Cream sponge (R), Hydroids (R), <i>Stomphia coccinea</i> ? (O), <i>Urticina</i> sp.? (O), Paguridae spp. (F), <i>Pecten maximus</i> (P), <i>Porania pulvillus</i> (P), <i>Stichastrella rosea</i> (O), <i>Luidia ciliaris</i> (F), <i>Echinus esculentus</i> (F), teleost sp. (P), <i>Trisopterus</i> sp. (O).	CR.MCR.EcCr.FaAlCr.Spi, SS.SMx.CMx		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V44.09	Rippled fine-medium sand (95%) with surface scatter of gravel (5%).	Paguridae spp. (F), <i>Trisopterus</i> sp. (F), emergent infaunal tubes (P).	SS.SSa.CFiSa		
SH_V44.10	Megarippled coarse sand (85%) with shells (10%) and gravel (5%) concentrated in troughs.	Hydroids (R), Paguridae spp. (F), <i>Porania pulvillus</i> (O), teleost sp. (P), <i>Trisopterus</i> sp. (O).	SS.SCS.CCS		
SH_V44.11	Rippled fine-medium sand (97%) with surface scatter of shell gravel (2%) and shells (1%) including <i>Arctica islandica</i> .	Paguridae spp. (F), <i>Porania pulvillus</i> (P), <i>Ophiura ophiura</i> (P), Teleost spp. (F), <i>Trisopterus</i> sp. (O).	SS.SSa.CFiSa		
SH_V44.12	Coarse sand (65%), shell gravel (5%) and shells (30%).	Paguridae spp. (F), <i>Asterias rubens</i> (P).	SS.SCS.CCS		
SH_V44.13	Fine-medium sand (90%), mostly rippled with surface scatter of shell gravel (5%) and shells (5%), both locally much denser.	Hydroids (R), Paguridae spp. (F), <i>Asterias rubens</i> (F), <i>Porania pulvillus</i> (P), teleost spp. (O), <i>Trisopterus</i> sp. (O).	SS.SSa.CFiSa		
SH_V44.14	Coarse sand (80%) partly in low megaripples, with shells (15%) and shell gravel (5%) and sparse small bedrock outcrops (<1%).	Hydroids (R), Sabellidae sp.? (P), Paguridae spp. (C), <i>Porania pulvillus</i> (O), <i>Stichastrella rosea</i> ? (P), teleost sp. (P), <i>Trisopterus</i> sp. (O), emergent infaunal tubes (P).	SS.SCS.CCS		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V46.01	Mosaic of bedrock (25%), boulders (5%) and cobbles (5%) with coarse sand (55%), gravel (5%) and shells (5%).	Rock encrusted with <i>Spirobranchus</i> spp. (A), <i>Serpula vermicularis</i> ? (P) and <i>Parasmittina trispinosa</i> (O). <i>Caryophyllia smithii</i> largely absent but F - C in patches. <i>Stomphia coccinea</i> ? (O), <i>Cancer pagurus</i> (P), <i>Porella compressa</i> ? (P), <i>Asterias rubens</i> (P), <i>Porania pulvillus</i> (O), Small teleost spp. (F). Sediment with emergent infaunal tubes.	CR.MCR.EcCr.FaAlCr.Spi, CR.MCR.EcCr.FaAlCr.C ar, SS.SCS.CCS		
SH_V46.02	Megaripples of coarse sand (80%) with gravel (10%) and shells (10%) concentrated in troughs.	Paguridae sp. (P), <i>Pecten maximus</i> (P), <i>Trisopterus</i> sp. (F). <i>Spirobranchus</i> spp. (C locally on boulder).	SS.SCS.CCS		
SH_V46.03	Mosaic of bedrock (40%), boulders (7%) and cobbles (3%) with coarse sand (40%), gravel (5%) and shells (5%).	Rock encrusted with <i>Spirobranchus</i> spp. (A), <i>Serpula vermicularis</i> ? (P) and <i>Parasmittina trispinosa</i> (O). <i>Caryophyllia smithii</i> varies in abundance from absence to A. Hydroids (R), <i>Stomphia coccinea</i> ? (O), <i>Urticina</i> sp.? (P), <i>Metridium dianthus</i> (F), <i>Munida rugosa</i> (P), Paguridae spp. (O), <i>Cancer pagurus</i> (P), <i>Pecten maximus</i> (O), <i>Crossaster papposus</i> (P), <i>Luidia ciliaris</i> (O), <i>Porania pulvillus</i> (F), <i>Stichastrella rosea</i> (O), <i>Ophiocomina nigra</i> (P), <i>Echinus esculentus</i> (F), <i>Trisopterus</i> sp. (F). Old fishing netting.	CR.MCR.EcCr.FaAlCr.Spi, CR.MCR.EcCr.FaAlCr.C ar, SS.SCS.CCS		
SH_V46.04	Flat plain of medium-coarse sand (94%) with shell gravel (5%) and shells (1%).	Paguridae spp. (F, locally C), <i>Buccinum undatum</i> (R), <i>Pecten maximus</i> (O), <i>Hippasterias phrygiana</i> (R), <i>Porania pulvillus</i> (R), <i>Luidia ciliaris</i> (P), Asteroidea sp. (P, buried), <i>Ophiura ophiura</i> (O), small teleost spp. (F) including <i>Trisopterus</i> sp. (F), <i>Molva molva</i> (P), emergent infaunal tubes (P).	SS.SCS.CCS		MM

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V47	Hard-packed, slightly rippled, muddy sand with scattered shell gravel (<1%) and shells (<1%) including <i>Arctica</i> .	Sediment lightly burrowed by megafaunal burrowers including <i>Nephrops norvegicus</i> (single burrow and animal seen) and possibly <i>Calocaris macandreae</i> . <i>Aphrodita aculeata</i> (R), Caridea sp. (R), Paguridae spp. (F) including <i>Pagurus bernhardus</i> and <i>P. prideaux</i> with <i>Adamsia palliata</i> , <i>Buccinum undatum</i> (R), <i>Aequipecten opercularis</i> (R), <i>Pecten maximus</i> (R), <i>Arctica islandica</i> (R, single possible specimen), <i>Asterias rubens?</i> (P), <i>Anseropoda placenta</i> (R), <i>Luidia ciliaris</i> (P), <i>L. sarsi?</i> (P), <i>Ophiura ophiura</i> (F), <i>Ophiura albida</i> (locally A), <i>Leucoraja naevus</i> (P), teleost spp. (O), <i>Trisopterus</i> sp. (O), Pleuronectidae spp. (O). Although with a few megafaunal burrows, this run has been assigned to OSa as it is on the borderline between OSa and OMu and appears to have a low mud content (<20%) capable of only supporting sparse burrows.	SS.SSa.OSa		AI?
SH_V48.01	Low relief bedrock (50%) with boulders (25%), cobbles (15%) and pebbles (5%) and sand patches (5%).	Rock encrusted with pink coralline algae (R), <i>Spirobranchus</i> spp. (A) and <i>Parasmittina trispinosa</i> (O) and supporting <i>Caryophyllia smithii</i> (C, locally A and absent in patches). Cream sponge (R), <i>Munida rugosa</i> (O), Paguridae spp. (O), <i>Pecten maximus</i> (O), <i>Stichastrella rosea</i> (F), <i>Luidia ciliaris</i> (P), <i>Ophiocomina nigra</i> (C locally), <i>Echinus esculentus</i> (C).	CR.MCR.EcCr.FaAlCr.C ar		
SH_V48.02	Megaripples of coarse sand (80%) with shells (13%), gravel (5%) and pebbles (2%) concentrated in troughs; sparsely scattered boulders and small bedrock outcrops.	Rock with <i>Parasmittina trispinosa</i> (locally O), <i>Spirobranchus</i> spp. (locally A), <i>Caryophyllia smithii</i> (C locally), Paguridae sp. (P), <i>Hippasteria phrygiana</i> (P), <i>Ophiocomina nigra</i> (R), <i>Anseropoda placenta</i> (P), <i>Echinus esculentus</i> (P), small teleost sp. (P).	SS.SCS.CCS		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V48.03	Mosaic of low-relief bedrock (50%) and coarse sand (45%) with shells (5%).	Rock encrusted with <i>Parasmittina trispinosa</i> (O) and supporting <i>Caryophyllia smithii</i> (C) and <i>Spirobranchus</i> spp. (C). Paguridae sp. (P), <i>Anseropoda placenta</i> (P).	CR.MCR.EcCr.FaAlCr.C ar		
SH_V48.04	Megaripples of coarse sand (70%) with shells (30%) concentrated in troughs.	Paguridae spp. (O), <i>Porania pulvillus</i> (P), <i>Neopentadactyla mixta</i> (P, 1 seen), small teleost spp. (F).	SS.SCS.CCS.Nmix		MC
SH_V48.05	Bedrock (80%) with boulders (15%) and coarse sand patches (5%).	Rock encrusted with pink coralline algae (R), <i>Spirobranchus</i> spp. (A) and <i>Parasmittina trispinosa</i> (O) and supporting <i>Caryophyllia smithii</i> (C, locally A and absent in patches). Cream sponge (R), hydroid patches (O), <i>Alcyonium digitatum</i> (R), Anthozoa sp. (R), <i>Pecten maximus</i> (R), <i>Porella compressa?</i> (P), <i>Solaster endeca</i> (P), <i>Crossaster papposus</i> (O), <i>Stichastrella rosea</i> (F), <i>Hippasteria phrygiana</i> (P), <i>Anseropoda placenta</i> (P), <i>Porania pulvillus</i> (F), <i>Luidia ciliaris</i> (O), <i>Ophiocomina nigra</i> (A locally), <i>Echinus esculentus</i> (C), teleost spp. (O) including <i>Molva molva?</i> (O).	CR.MCR.EcCr.FaAlCr.C ar		MM
SH_V48.06	Flat area of coarse sand (95%) with gravel (5%).	Small shoal of small teleosts, Paguridae sp. (P), <i>Anseropoda placenta?</i> (P).	SS.SCS.CCS		
SH_V48.07	Bedrock (94%) with boulders (2%), cobbles (2%) and coarse sand patches (2%).	Rock encrusted with pink coralline algae (R), <i>Spirobranchus</i> spp. (A) and <i>Parasmittina trispinosa</i> (O). Hydroid patches (O), <i>Solaster endeca</i> (P), <i>Crossaster papposus</i> (P), <i>Stichastrella rosea</i> (F), <i>Porania pulvillus</i> (F), <i>Luidia ciliaris</i> (O), <i>Ophiocomina nigra</i> (C, A locally), <i>Echinus esculentus</i> (C), small teleost spp. (O).	CR.MCR.EcCr.FaAlCr.S pi		
SH_V48.08	Coarse sand (90%) latterly formed into megaripples with gravel (5%) and shells (5%).	Small Paguridae spp. (F), dense, small, bivalve mollusc siphons, <i>Stichastrella rosea?</i> (P), <i>Luidia ciliaris</i> (P), small teleost spp. (F).	SS.SCS.CCS		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V5/6.01	Mixed sediment of coarse sand (30%), gravel (40%), pebbles (10%) and shells (20%) with cobbles (<1%) and boulders (<1%).	Sparse visible biota. Pink encrusting coralline algae (R), hydroids (R), serpulid worms (F) including <i>Spirobranchus</i> spp. (locally A on boulder), <i>Chaetopterus variopedatus?</i> (P), <i>Pecten maximus</i> (O), <i>Parasmittina trispinosa</i> (R), <i>Flustra foliacea</i> (R, possibly drift), <i>Crossaster papposus</i> (P), <i>Porania pulvillus</i> (O), <i>Luidia ciliaris</i> (F), <i>Ophiocomina nigra</i> (O), <i>Echinus esculentus</i> (C), <i>Ascidia virginea?</i> (P), Molgulidae sp.? (P), small teleost spp. (O).	SS.SMx.CMx		
SH_V5/6.02	Mosaic of bedrock (50%) and boulders (10%) with mixed sediment of coarse sand (15%), gravel (15%) and pebbles (10%).	Rock encrusted with pink coralline algae (R), <i>Parasmittina trispinosa</i> (where F), orange bryozoan (R) and <i>Spirobranchus</i> spp. (where A) and supporting patches of hydroids (O). <i>Urticina</i> spp. (O), <i>Munida rugosa</i> (P), <i>Crossaster papposus</i> (P), <i>Porania pulvillus</i> (F), <i>Stichastrella rosea</i> (P), <i>Ophiocomina nigra</i> (F), <i>Echinus esculentus</i> (C).	CR.MCR.EcCr.FaAlCr.Spi, SS.SMx.CMx		
SH_V5/6.03	Mixed sediment of coarse sand (10%), gravel (50%), pebbles (20%) and shells (20%) with cobbles (<1%).	Pink encrusting coralline algae (R), hydroids (O), serpulid worms (F), <i>Chaetopterus variopedatus?</i> (P), <i>Pecten maximus</i> (O), <i>Flustra foliacea</i> (R), <i>Crossaster papposus</i> (P), <i>Porania pulvillus</i> (O), <i>Stichastrella rosea</i> (R), <i>Luidia ciliaris</i> (F), <i>Ophiocomina nigra</i> (F, locally A), <i>Echinus esculentus</i> (F), <i>Ascidia virginea</i> (P), <i>A. mentula</i> (P), <i>Eutrigla gurnardus</i> (P), <i>Callionymus</i> sp. (P), small teleost spp. (O).	SS.SMx.CMx		
SH_V50.01	Mosaic of bedrock outcrops (25%) and boulders (25%) on coarse sand (50%).	Rock encrusted with pink coralline algae (where A) and <i>Spirobranchus</i> spp. (where A) and supporting patchy ophiuroid bed with <i>Ophiothrix fragilis</i> (S) and <i>Ophiocomina nigra</i> (A locally). <i>Urticina</i> spp. (F), <i>Pecten maximus</i> (P), <i>Crossaster papposus</i> (P), <i>Echinus esculentus</i> (C), <i>Molva molva</i> (P), small shoal of small teleosts..	CR.MCR.EcCr.FaAlCr.Br i, SS.SCS.CCS		MM
SH_V50.02	Coarse sand.	<i>Ophiocomina nigra</i> (P).	SS.SCS.CCS		

Annex 4 continued


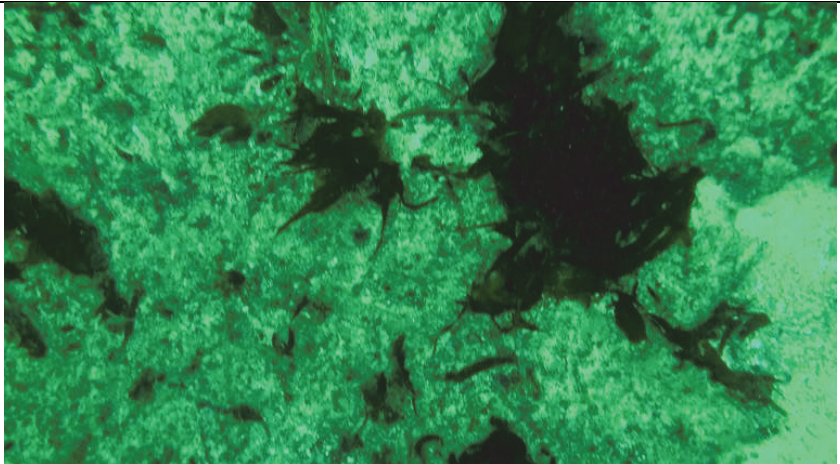
Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V50.03	Coarse sand (60%) with outcropping bedrock or boulders (40%).	Rock encrusted with pink coralline algae (where A) <i>Parasmittina trispinosa</i> (R) and <i>Spirobranchus</i> spp. (C) and supporting patchy ophiuroid bed with <i>Ophiothrix fragilis</i> (S locally) and <i>Ophiocomina nigra</i> (A locally). <i>Urticina</i> spp. (F) including <i>U. felina</i> , <i>Crossaster papposus</i> (P), <i>Asterias rubens</i> (P), <i>Echinus esculentus</i> (P).	CR.MCR.EcCr.FaAlCr.Br i, SS.SCS.CCS		
SH_V50.04	Coarse sand (99%) with gravel (1%) and small spots of outcropping bedrock (<1%).	Gravel and bedrock with pink coralline algae (R). <i>Urticina</i> spp. (O), Gobiidae spp. (O), <i>Ophiocomina nigra</i> (O), <i>Ophiothrix fragilis</i> (O), <i>Echinus esculentus</i> (P).	SS.SCS.CCS		
SH_V50.05	Coarse sand (49%) with gravel (1%) and boulders and/or small spots of outcropping bedrock (50%).	Rock encrusted with pink coralline algae (where A), <i>Parasmittina trispinosa</i> (where R, locally C) and <i>Spirobranchus</i> spp. (where C, locally A) and supporting patches of hydroids (O), <i>Alcyonium digitatum</i> (R), <i>Caryophyllia smithii</i> (R), foliose red algae (R) and small patches of <i>Ophiothrix fragilis</i> (locally A) and <i>Ophiocomina nigra</i> (A locally). <i>Urticina</i> spp. (O), <i>Pecten maximus</i> (P), <i>Crossaster papposus</i> (F), <i>Asterias rubens</i> (F), <i>Echinus esculentus</i> (C), small teleost sp. (P), <i>Molva molva</i> (P).	CR.MCR.EcCr.FaAlCr.S pi, SS.SCS.CCS		MM
SH_V50.06	Mixed sediment of coarse sand (40%), gravel (30%), pebbles (10%) and shells (20%) including <i>Modiolus</i> , but varying in density and proportions along run.	Sparse visible biota. Pink encrusting coralline algae (R), hydroids (R), <i>Alcyonium digitatum</i> (R), <i>Urticina</i> spp. (O), <i>Spirobranchus</i> spp. (P), <i>Pecten maximus</i> (O), <i>Crossaster papposus</i> (F), <i>Asterias rubens</i> (P), <i>Porania pulvillus</i> (P), <i>Luidia ciliaris</i> (P), <i>Ophiocomina nigra</i> (C), <i>Echinus esculentus</i> (F), <i>Scyliorhinus canicula</i> (P).	SS.SMx.CMx		

Annex 4 continued

Video sample	Substrate	Biota	Biotopes	Annex 1 habitat	PF/PMF
SH_V50.07	Low relief bedrock (75%) with coarse sand patches (20%) containing some cobbles (3%), gravel (1%) and pebbles (1%).	Rock encrusted with pink coralline algae (A) and <i>Spirobranchus</i> spp. (C) and supporting patches of hydroids (O), <i>Alcyonium digitatum</i> (R) and small patch of ophiuroids (where S) including <i>Ophiothrix fragilis</i> and <i>Ophiocomina nigra</i> . <i>Urticina</i> spp. (F) including <i>U. felina</i> , <i>Echinus esculentus</i> (C), small teleost sp. (P).	CR.MCR.EcCr.FaAlCr.Spi, SS.SCS.CCS		
SH_V50.08	Mixed sediment of coarse sand (30%), gravel (40%), pebbles (20%) and shells (10%) including <i>Modiolus</i> .	Sparse visible biota. Pink encrusting coralline algae (R), <i>Solaster endeca</i> (P), <i>Ophiocomina nigra</i> (P), <i>Ophiothrix fragilis</i> (P), <i>Echinus esculentus</i> (F).	SS.SMx.CMx		

ANNEX 5: BIOTOPES RECORDED WITH SITES OF OCCURRENCE AND ILLUSTRATIVE PHOTOGRAPH OR VIDEO FRAME GRAB

Biotope codes in red are Protected Features at sites also in red. Sites in blue indicate provenance of image. See Connor *et al.* (2004) for full biotope description.

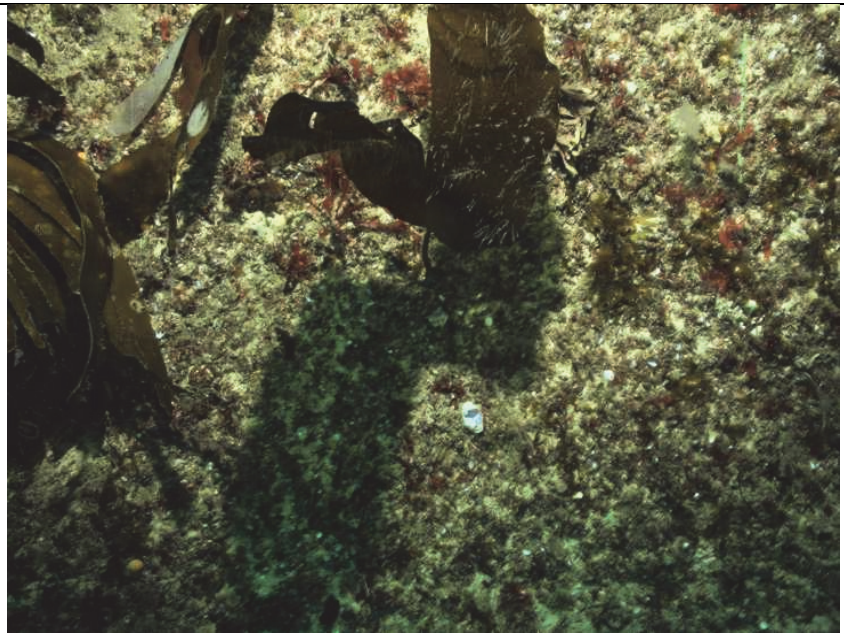
<p>IR.HIR.KFaR.FoR</p> <p>Foliose red seaweeds on exposed lower infralittoral rock</p> <p>NSF04_02.03, NSF04_03.04, NSF04_08.01, NSF04_08.03, NSF04_09.01, S11_V3_18.1, S2_V1_18.12, S3_V4_18.2, S3_V4_18.6, S4_V1_18.4, S4_V1_18.6, S4_V3_18.12, S4_V3_18.14, S4_V3_18.17, S4_V3_18.19, S4_V3_18.2, S4_V3_18.21, S4_V3_18.23, S4_V3_18.25, S4_V3_18.27, S4_V3_18.4, S4_V3_18.7, S4_V3_18.9, S5_V2_17.17, S6_V1_17.15, S9_V2_18.3, S9_V3_18.6</p>	
<p>IR.HIR.KSed</p> <p>Sand or gravel-affected or disturbed kelp and seaweed communities</p> <p>S8_V3_18.2, S8_V3_18.4</p>	

Annex 5 continued




IR.HIR.KSed.XKScrR

Mixed kelps with scour-tolerant and opportunistic foliose red seaweeds on scoured or sand-covered infralittoral rock

LC12.02, LC13.02, LC13.03, LC14, LC15.02, LC18.01, S11_V2_18.11, S2_V1_18.4, S2_V2_17.4, S2_V2_17.6, S2_V3_17.11, S2_V3_17.13, S2_V3_17.9, S2_V4_17.14, S3_V1_17.2, S3_V1_17.4, S3_V1_17.6, S3_V1_17.8, S3_V2_18.1, S3_V2_18.3, S4_V1_17.10, S4_V1_17.12, S4_V1_17.14, S4_V1_17.16, S4_V1_17.19, S4_V1_17.21, S4_V1_17.23, S4_V1_17.5, S4_V1_17.7, S4_V1_18.2, S4_V2_17.25, S4_V2_18.10, S4_V2_18.12, S4_V2_18.14, S4_V2_18.16, S4_V2_18.18, S4_V2_18.2, S4_V2_18.4, S4_V2_18.6, S4_V2_18.8, S4_V2_18.10, S4_V3_17.11, S4_V3_17.14, S4_V3_17.16, S4_V3_17.18, S4_V3_17.2, S4_V3_17.20, S4_V3_17.22, S4_V3_17.24, S4_V3_17.26, S4_V3_17.5, S5_V1_17.16, S6_V2_18.4, S7_V1_17.1, S7_V3_17.4, S7_V4_17.10, S7_V4_17.2, S7_V4_17.4, S7_V4_17.6, S7_V4_17.8, S8_V3_18.10, S8_V3_18.12, S8_V3_18.14, S8_V3_18.6, S8_V3_18.8, [S8_V4_18.2](#), S8_V4_18.4, S8_V4_18.6, S8_V4_18.8, S9_V4_18.5, S9_V4_18.7, SoM_05.04



Annex 5 continued

<p>IR.MIR.KT.XKTX</p> <p>Mixed kelp and red seaweeds on infralittoral boulders, cobbles and gravel in tidal rapids</p> <p>LC01.2, LC08.01</p>	
<p>CR</p> <p>Cirralittoral rock</p> <p>LS_05.02, NSF04_03.01</p>	
<p>CR.HCR.DpSp.PhaAxi</p> <p><i>Phakellia ventilabrum</i> and axinellid sponges on deep, wave-exposed cirralittoral rock</p> <p>FMA01_29.02, FMA05_04.02, FMA05_05.02, FMA05_05.04, FMA05_10.02, FMA05_12.02, FMA05_12.03, FMA05_12.04, FMA05_12.06, FMA05_13.02, FMA05_13.03, FMA05_13.05, FMA05_16.01, FMA05_16.03, FMA05_17.01, FMA05_17.02, FMA05_17.03, FMA05_17.04, FMA05_17.05,</p>	

Annex 5 continued

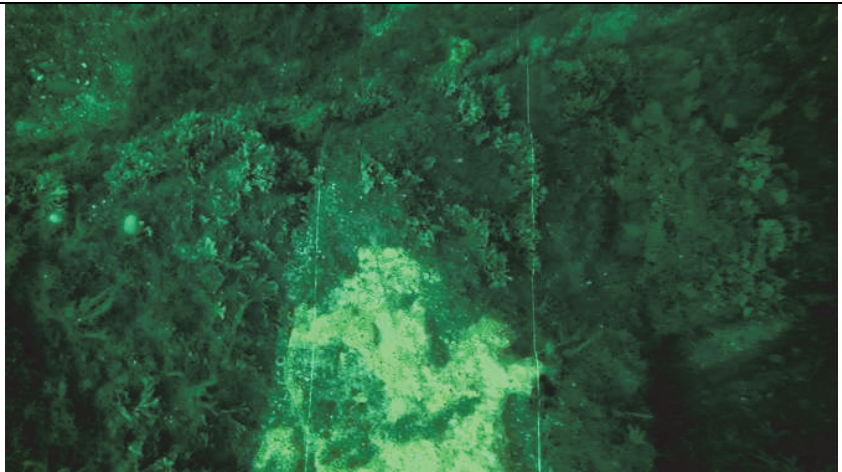
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 FMA05_28.03,
 FMA05_29.02,
 FMA05_29.04,
 FMA05_30.02, FMA05_32,
 FMA05_33.02,
 FMA05_34.02,
 FMA05_34.03, NSF04_07.02,
 SH_V40.06, SH_V40.08,
 SH_V43.01, [SH_V43.05](#)



CR.HCR.XFa

Mixed faunal turf communities

FMA01_04.02, FMA01_05,
 FMA01_06.03,
 FMA04_01.01,
 FMA04_01.04, FMA04_08,
 FMA04_14.06,
 FMA04_21.02, LS_01.01,
 LS_02.02, LS_02.04,
 S11_V1_17.10,
 S11_V1_17.12,
 S11_V1_17.14,
 S11_V1_17.16,
 S11_V1_17.18,
 S11_V1_17.2,
 S11_V1_17.20,
 S11_V1_17.4, S11_V1_17.6,
 S11_V1_17.8,
 S11_V2_17.10,
 S11_V2_17.12,
 S11_V2_17.14,
 S11_V2_17.16,
 S11_V2_17.18,
 S11_V2_17.2,
 S11_V2_17.20,
 S11_V2_17.24,
 S11_V2_17.4, S11_V2_17.6,
 S11_V2_17.8, S11_V2_18.1,
 S11_V2_18.13,
[S11_V2_18.3](#), S11_V2_18.5,
 S11_V2_18.7, S11_V2_18.9,
 S11_V3_18.2, S11_V3_18.4,
 S11_V3_18.6, S11_V4_18.1,
 S11_V4_18.4, S11_V4_18.7,
 S11_V4_18.9, S7_V2_17.4,



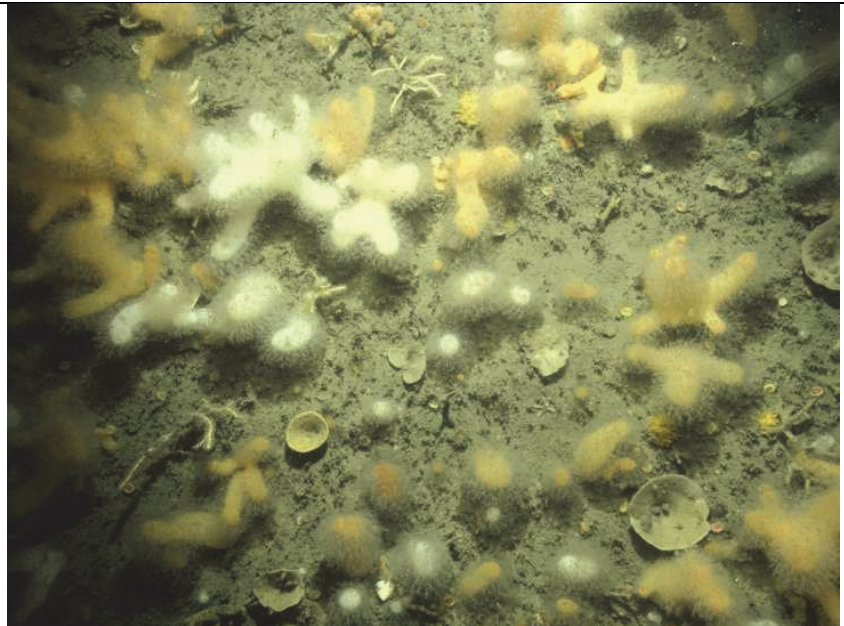
Annex 5 continued

SoM_02.02, SoM_05.02,
SoM_07.01, SoM_07.03

CR.HCR.XFa.SwiLgAs

Mixed turf of hydroids and large ascidians with *Swiftia pallida* and *Caryophyllia smithii* on weakly tide-swept circalittoral rock

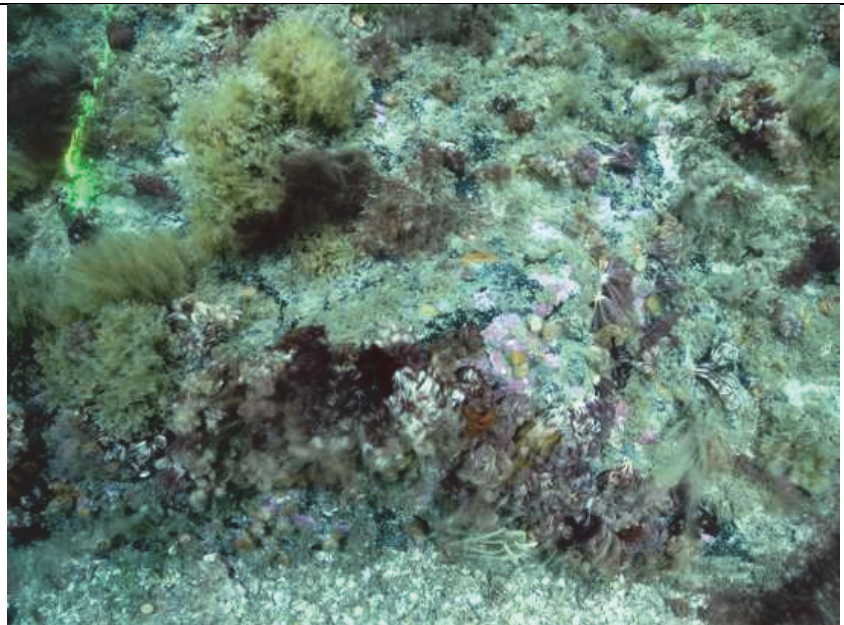
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FMA04_14.02,
FMA04_14.04, NSF04_05.04,
NSF04_09.04,
S11_V2_17.22,
S11_V4_18.3, S11_V4_18.5,
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SoM_06.01, SoM_06.02,
SoM_07.02



CR.HCR.XFa.FluCoAs

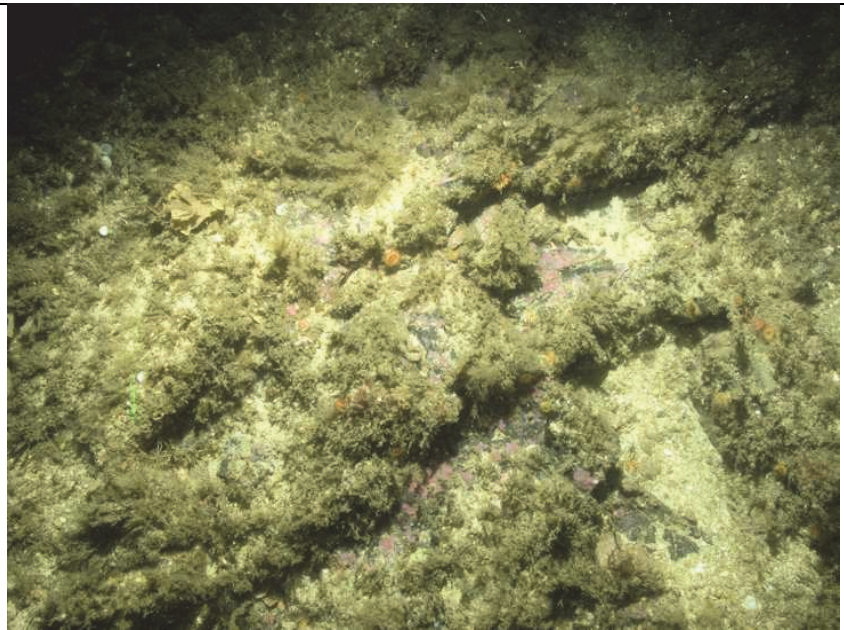
Flustra foliacea and colonial ascidians on tide-swept moderately wave-exposed circalittoral rock

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S2_V1_18.2, S2_V1_18.8,
S2_V2_17.2, S2_V2_18.10,
S2_V2_18.12, S2_V2_18.14,
S2_V2_18.16, S2_V2_18.18,
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S2_V3_17.4, S2_V3_17.6,
S2_V3_17.8, S2_V4_17.10,
S2_V4_17.12, S2_V4_17.2,
S2_V4_17.4, S2_V4_17.6,
S2_V4_17.8, S3_V3_17.2,
S3_V3_17.4, S3_V3_17.6,
S3_V3_17.8, S3_V4_17.2,
S3_V4_17.4, S3_V4_17.6,





Annex 5 continued

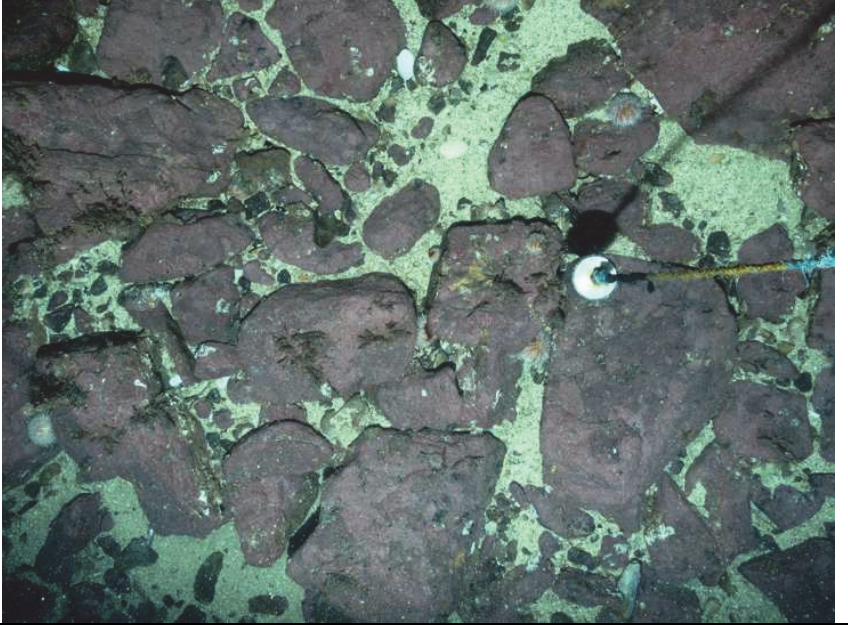

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S4_V2_17.16, S4_V2_17.2,
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S5_V2_17.05, S5_V2_17.07,
S5_V2_17.09, S5_V2_17.11,
S5_V2_17.13, S5_V2_17.15,
S5_V2_17.17, S5_V2_18.2,
S5_V2_18.4, S5_V3_18.2,
S5_V3_18.4, S5_V3_18.6,
S6_V1_17.02, S6_V1_17.04,
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S9_V4_17.6




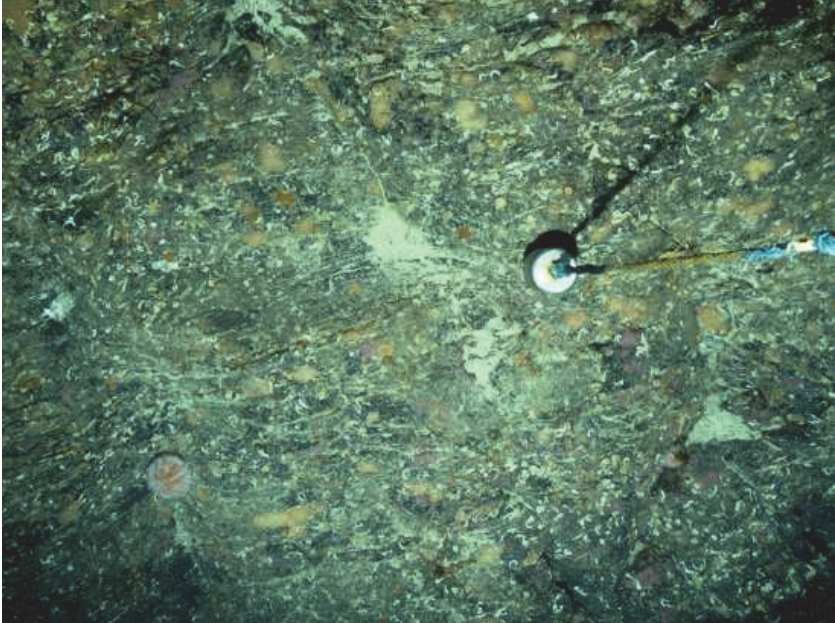
Annex 5 continued

<p>CR.MCR.EcCr.CarSwi.LgAs</p> <p><i>Caryophyllia smithii</i>, <i>Swiftia pallida</i> and large solitary ascidians on exposed or moderately exposed circalittoral rock</p> <p>FMA01_03.01, FMA01_23.02, FMA01_35.02, FMA04_01.02, FMA04_02.02, FMA04_07, FMA04_11.02, FMA04_13.01, LS_03.04, LS_12.03, LS_12.06, LS_16.02, LS_16.03, LS_16.04, LS_16.06, LS_20.08, NSF04_01.01, NSF04_03.03, NSF04_05.02, NSF04_06.02, NSF04_06.04, NSF04_06.06, NSF04_07.04, NSF04_10.02, NSF04_10.04, NSF04_11.01, NSF04_15.02, NSF04_15.04, NSF04_17.01</p>	
<p>CR.MCR.EcCr.CarSp</p> <p><i>Caryophyllia smithii</i>, sponges and crustose communities on wave-exposed circalittoral rock</p> <p>NSF04_13.01</p>	

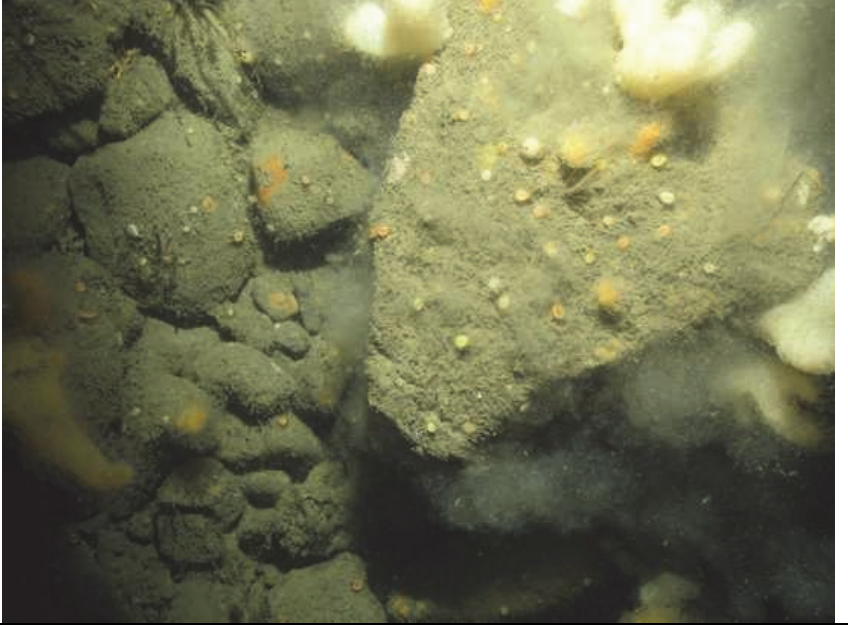
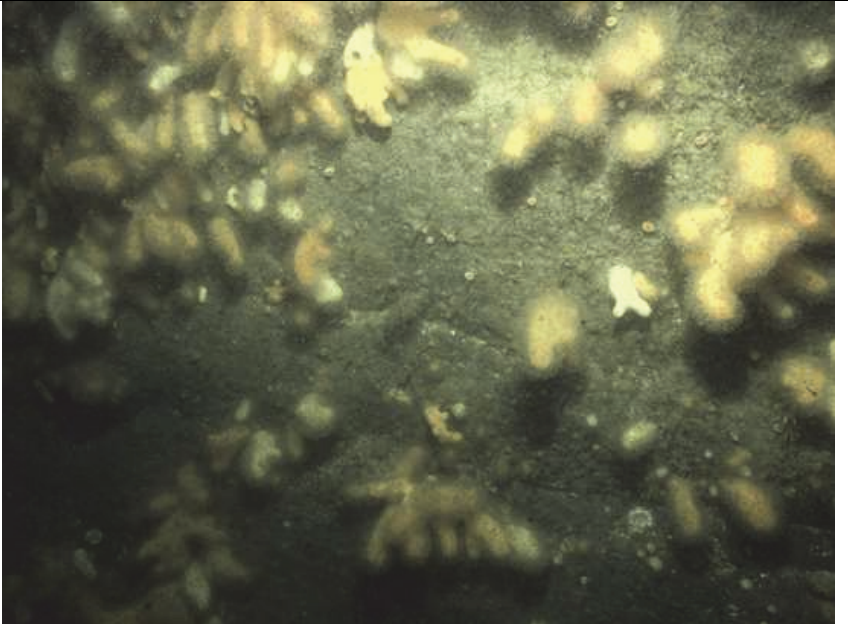
Annex 5 continued

<p>CR.MCR.EcCr.FaAlCr</p> <p>Faunal and algal crusts on exposed to moderately wave-exposed circalittoral rock</p> <p>SH_V24.05, SH_V24.06, SH_V29.08, SoM_11.01, SoM_11.03</p>	
<p>CR.MCR.EcCr.FaAlCr.Adig</p> <p><i>Alcyonium digitatum</i>, <i>Spirobranchus triqueter</i>, algal and bryozoan crusts on wave-exposed circalittoral rock</p> <p>FMA01_09.03, NSF04_01.02, SH_V24.06, SoM_11.02</p>	

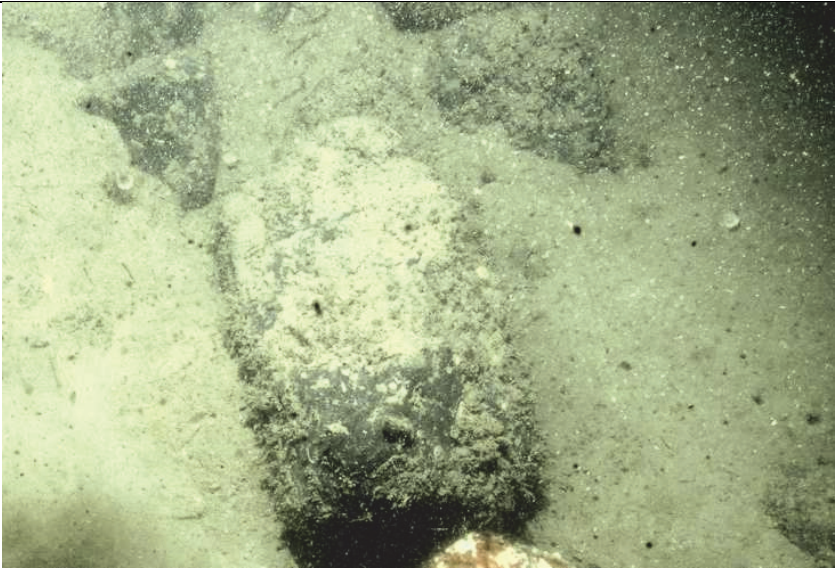


Annex 5 continued

<p>CR.MCR.EcCr.FaAlCr.Bri</p> <p>Brittlestars on faunal and algal encrusted exposed to moderately wave-exposed circalittoral rock</p> <p>SH_V20.02, SH_V20.04, SH_V20.09, SH_V20.11, SH_V29.01, SH_V29.03, SH_V29.05, SH_V29_2.02, SH_V29_2.04, SH_V29_2.06, SH_V29_2.10, SH_V30.01, SH_V30.03, SH_V30.05, SH_V30.07, SH_V30.09, SH_V30.10, SH_V38.04, SH_V38_2.04, SH_V38_2.08, SH_V40.01, SH_V40.02, SH_V40.05, SH_V41.02, SH_V41.04, SH_V41.07, SH_V50.01, SH_V50.03</p>	
<p>CR.MCR.EcCr.FaAlCr.Spi</p> <p>Faunal and algal crusts with <i>Spirobranchus triqueter</i> and sparse <i>Alcyonium digitatum</i> on exposed to moderately wave-exposed circalittoral rock</p> <p>SH_V19.02, SH_V23.02, SH_V24.03, SH_V29.07, SH_V29_2.11, SH_V29_2.13, SH_V38.07, SH_V38_2.02, SH_V40.01, SH_V40.04, SH_V40.05, SH_V40.07, SH_V40.09, SH_V40.10, SH_V41.05, SH_V44.03, SH_V44.06, SH_V44.08, SH_V46.01, SH_V46.03, SH_V48.07, SH_V5/6.02, SH_V50.05, SH_V50.07</p>	




Annex 5 continued

<p>CR.MCR.EcCr.FaAICr.Car</p> <p><i>Caryophyllia smithii</i> with faunal and algal crusts on moderately wave-exposed circalittoral rock</p> <p>FMA04_22.04, NSF04_01.02, NSF04_01.04, NSF04_02.02, NSF04_02.04, NSF04_08.02, NSF04_09.02, NSF04_13.02, NSF04_13.04, SH_V29.07, SH_V29.08, SH_V29_2.13, SH_V38.02, SH_V38.03, SH_V38.04, SH_V38_2.06, SH_V38_2.07, SH_V38_2.08, SH_V46.01, SH_V46.03, SH_V48.01, SH_V48.03, SH_V48.05, SoM_04.01</p>	
<p>CR.MCR.EcCr.AdigVt</p> <p><i>Alcyonium digitatum</i> and faunal crust communities on vertical circalittoral bedrock</p> <p>LS_05.03, LS_05.05, LS_06.04</p>	

Annex 5 continued

<p>CR.LCR</p> <p>Low energy circalittoral rock</p> <p>FMA01_01.01, FMA01_07.04, FMA01_15.01, FMA01_15.03, FMA01_29.03, FMA04_02.01, FMA04_02.04, FMA04_12.02, FMA04_12.04, FMA04_12.06, FMA04_16.01, FMA04_16.03, FMA04_17.01, LS_19.02, LS_20.07, LS_20.09, NSF04_07.01, NSF04_14.01, SoM_08.01, SoM_08.03</p>	
<p>CR.LCR.BrAs</p> <p>Brachiopods and ascidians</p> <p>LS_10.01, LS_11.06, LS_12.05, LS_20.12</p>	
<p>CR.LCR.BrAs.AmenCio.Ant</p> <p>Solitary ascidians, including <i>Ascidia mentula</i> and <i>Ciona intestinalis</i> with <i>Antedon</i> spp. on wave-sheltered circalittoral rock</p> <p>LA2_1.02, LA2_1.04, LA2_1.06</p>	

Annex 5 continued

<p>CR.LCR.BrAs.AmenCio.Bri</p> <p>Dense brittlestars with sparse <i>Ascidia mentula</i> and <i>Ciona intestinalis</i> on sheltered circalittoral mixed substrata</p> <p>FMA01_09.02, LS_02.06, LS_03.02, LS_11.02, LS_11.04, LS_12.02, LS_14.02, LS_14.06, LS_17, LS_20.03, LS_20.04, LS_20.06, SoM_08.02, SoM_08.04</p>	
<p>CR.LCR.BrAs.AntAsH</p> <p><i>Antedon</i> spp., solitary ascidians and fine hydroids on sheltered circalittoral rock</p> <p>LA1_1.01, LA1_1.02, LA1_1.03, LS_03.01, LS_03.03, LS_03.05, LS_05.04, LS_05.06, LS_06.03, LS_07.01, LS_07.03</p>	
<p>SS.SCS.ICS</p> <p>Infralittoral coarse sediment</p> <p>S10_V1_17.1, S10_V1_17.3, S10_V1_18, S10_V2_17.1, S10_V2_17.3, S10_V2_18.2, S10_V2_18.4, S10_V3_17, S10_V3_18, S10_V4_18, S2_V1_18.3, S3_V1_17.10, S3_V1_18, S3_V2_17.2, S3_V2_18.5, S3_V2_18.7, S3_V3_17.7, S3_V3_17.9, S3_V3_18.1, S3_V3_18.3, S3_V4_17.9, S3_V4_18.3, S3_V4_18.5, S3_V4_18.7,</p>	

Annex 5 continued

S4_V1_17.17, S4_V1_17.2,
 S4_V1_17.6, S4_V1_17.8,
 S4_V1_18.11, S4_V1_18.13,
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 S4_V1_18.5, S4_V1_18.7,
 S4_V2_17.10, S4_V2_17.13,
 S4_V2_17.15, S4_V2_17.17,
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 S4_V2_17.24, S4_V2_17.5,
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 S8_V2_17.2, S8_V2_17.4,
 S8_V2_17.6, S8_V2_17.8,
 S8_V2_18.1, S8_V3_17.2,
 S8_V3_17.4, [S9_V1_17.10](#),
 S9_V1_17.12, S9_V1_17.2,
 S9_V1_17.4, S9_V1_17.6,
 S9_V1_18.1, S9_V2_17.1,
 S9_V2_18.2, S9_V3_17.1,
 S9_V3_17.3, S9_V3_17.5,
 S9_V3_18.1, S9_V3_18.4,
 S9_V4_17.1, S9_V4_17.3,
 S9_V4_17.7, S9_V4_18.1,
 S9_V4_18.3

SS.SCS.CCS

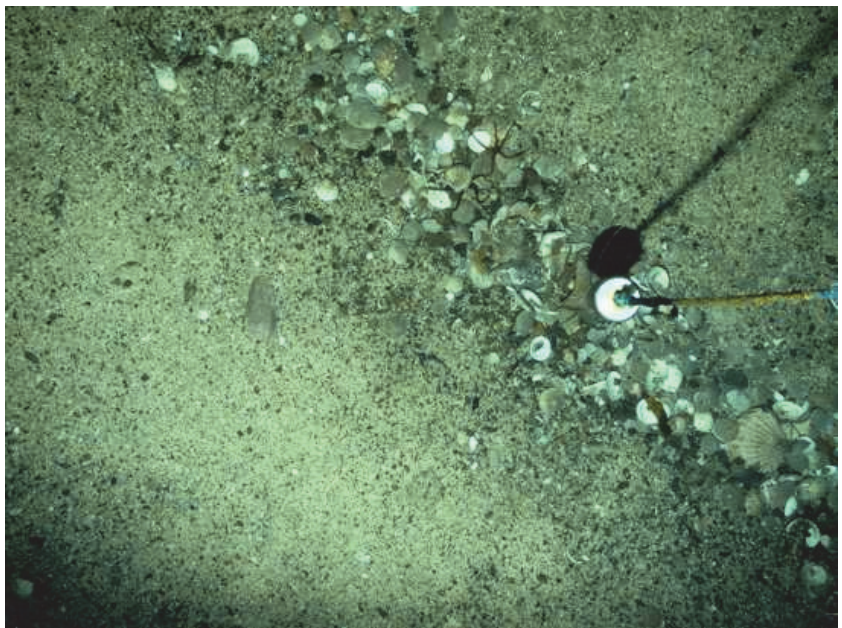
Circalittoral coarse sediment

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 S2_V2_17.3, S2_V2_17.5,
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 S2_V2_18.13, S2_V2_18.15,
 S2_V2_18.17, [S2_V2_18.19](#),
 S2_V2_18.21, S2_V2_18.3,
 S2_V2_18.5, S2_V2_18.7,
 S2_V2_18.9, S2_V3_17.1,
 S2_V3_17.10, S2_V3_17.12,
 S2_V3_17.3, S2_V3_17.5,
 S2_V3_17.7, S2_V4_17.1,
 S2_V4_17.11, S2_V4_17.13,
 S2_V4_17.2, S2_V4_17.3,
 S2_V4_17.4, S2_V4_17.5,
 S2_V4_17.7, S2_V4_17.9,
 S3_V1_17.1, S3_V2_17.1,
 S3_V2_18.2, S3_V3_17.1,
 S3_V3_17.3, S3_V3_17.5,
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 S3_V4_18.1, S3_V4_18.8,



Annex 5 continued


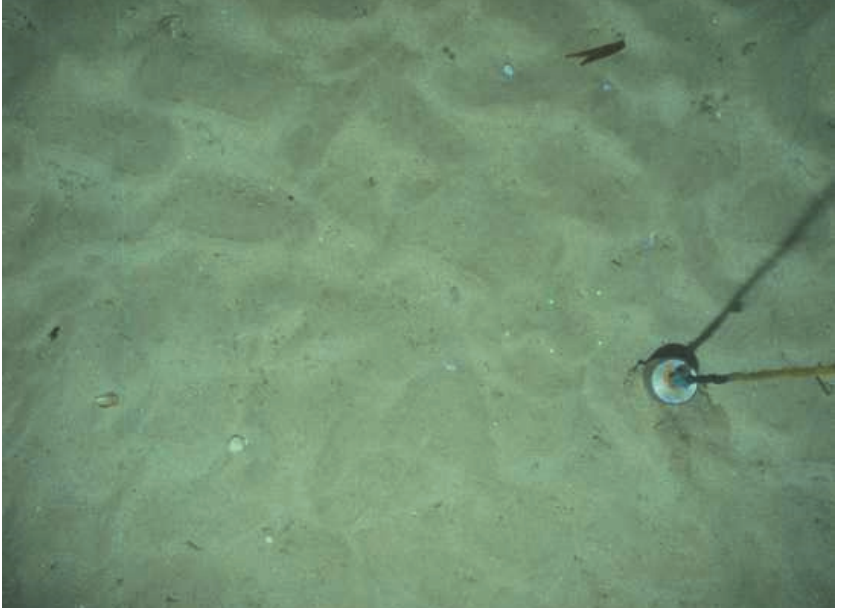
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 S5_V2_18.2, S5_V3_18.5,
 S6_V1_17.16, S6_V1_18.2,
 S6_V2_17.11, S6_V2_17.13,
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 SH_V40.04, SH_V40.10,
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 SH_V44.01, SH_V44.04,
 SH_V44.10, SH_V44.12,
 SH_V44.14, SH_V46.01,
 SH_V46.02, SH_V46.03,
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 SH_V50.05, SH_V50.07



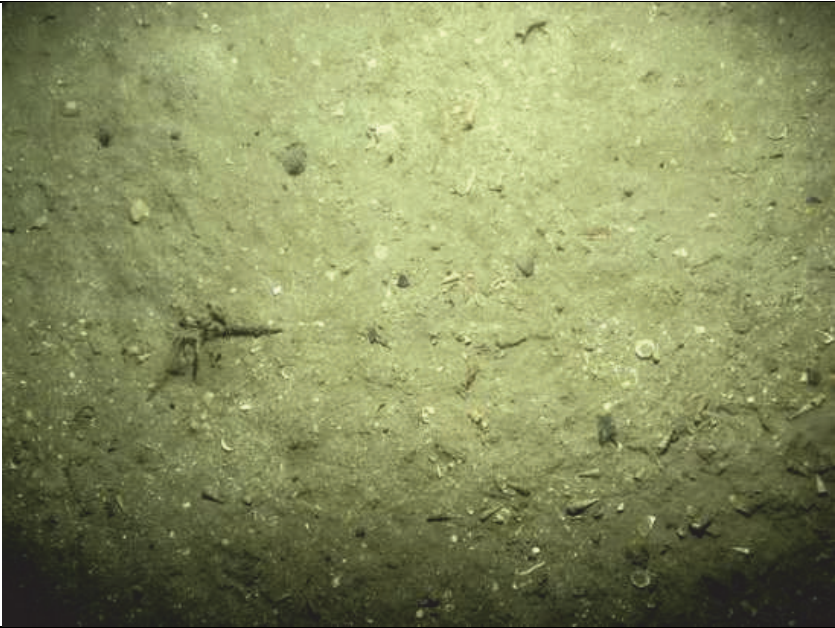

Annex 5 continued

<p>SS.SCS.CCS.SpiB</p> <p><i>Spirobranchus triqueter</i> with barnacles and bryozoan crusts on unstable circalittoral cobbles and pebbles</p> <p>SH_V19.01, SH_V19.03, SH_V23.03</p>	 An underwater photograph showing a seabed covered with dark, rounded cobbles and pebbles. A vertical green laser line is visible on the left side of the frame. In the lower right, a white circular light source is visible, with several green laser spots on the seabed nearby.
<p>SS.SCS.CCS.Nmix</p> <p><i>Neopentadactyla mixta</i> in circalittoral shell gravel or coarse sand</p> <p>S7_V4_17.1, SH_V48.04</p>	 An underwater photograph showing a seabed with dark, coarse sand and shell gravel. A vertical green laser line is visible on the right side of the frame. A white circular light source is visible in the lower right, with green laser spots on the seabed.
<p>SS.SCS.OCS</p> <p>Offshore circalittoral coarse sediment</p> <p>SH_V43.02, SH_V43.04</p>	 An underwater photograph showing a seabed with dark, coarse sediment. A vertical green laser line is visible on the right side of the frame. A white circular light source is visible in the lower right, with green laser spots on the seabed.

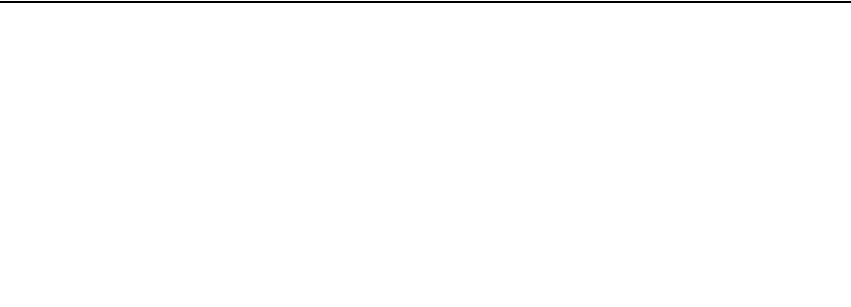


Annex 5 continued

<p>SS.SSa.IMuSa</p> <p>Infralittoral muddy sand</p> <p>S7_V2_17.1, S7_V2_17.3, S7_V2_17.5, S7_V2_17.7, S7_V3_17.2, S7_V4_17.11</p>	
<p>SS.SSa.CFiSa</p> <p>Circolittoral fine sand</p> <p>SH_V16.02, SH_V16.04, SH_V17.01, SH_V29_2.01, SH_V29_2.03, SH_V29_2.05, SH_V29_2.07, SH_V29_2.09, SH_V38.06, SH_V38.08, SH_V38_2.01, SH_V38_2.10, SH_V44.02, SH_V44.05, SH_V44.07, SH_V44.09, SH_V44.11, SH_V44.13</p>	

Annex 5 continued

<p>SS.SSa.CMuSa</p> <p>Circolittoral muddy sand</p> <p>LS_18.01, NSF04_05.01, NSF04_05.03, NSF04_13.03, NSF04_15.03, NSF04_15.05, SoM_03.01, SoM_11.01</p>	
<p>SS.SSa.OSa</p> <p>Offshore circolittoral sand</p> <p>S11_V1_17.1, S11_V1_17.11, S11_V1_17.13, S11_V1_17.15, S11_V1_17.17, S11_V1_17.19, S11_V1_17.3, S11_V1_17.5, S11_V1_17.7, S11_V1_17.9, S11_V1_18, S11_V2_17.1, S11_V2_17.10, S11_V2_17.11, S11_V2_17.13, S11_V2_17.15, S11_V2_17.17, S11_V2_17.19, S11_V2_17.21, S11_V2_17.23, S11_V2_17.3, S11_V2_17.5, S11_V2_17.7, S11_V2_17.9, S11_V2_18.1, S11_V2_18.10, S11_V2_18.12, S11_V2_18.2, S11_V2_18.4, S11_V2_18.5, S11_V2_18.6, S11_V2_18.8, S11_V3_18.3, S11_V3_18.5, S11_V3_18.6, S11_V3_18.7, S11_V4_18.10, S11_V4_18.2, S11_V4_18.4, S11_V4_18.6, S11_V4_18.7, S11_V4_18.8, S11_V4_18.9,</p>	

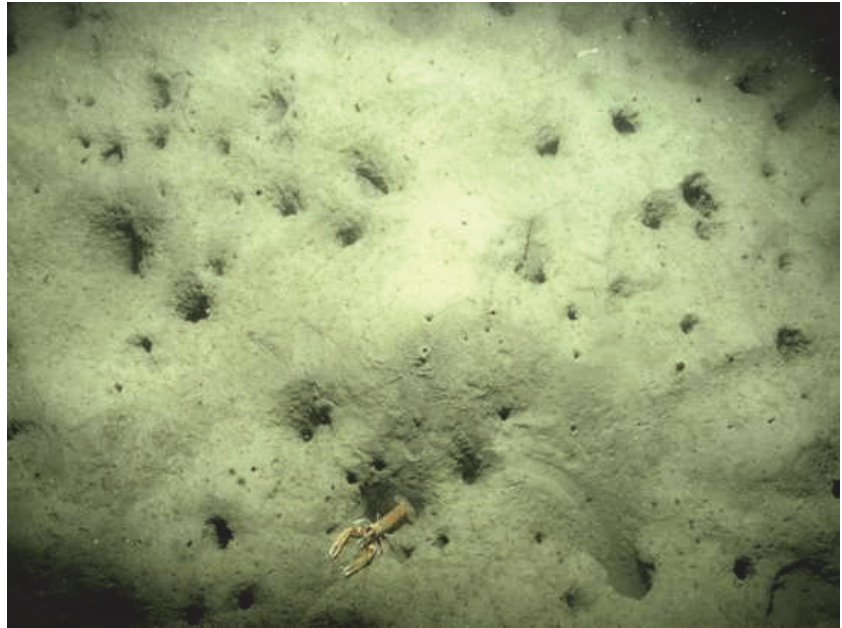
Annex 5 continued

<p>SH_V27, SH_V27_2, SH_V47</p>	
<p>SS.SMu.CSaMu</p> <p>Circalittoral sandy mud</p> <p>FMA05_04.01, FMA05_04.03, FMA05_10.01, FMA05_10.03, FMA05_30.01, FMA05_30.02, FMA05_31, LS_07.04, LS_10.01, LS_11.01, LS_11.05, LS_11.06, LS_11.07, LS_12.04, LS_12.05, LS_13.01, LS_14.02, LS_14.04, LS_14.06, LS_16.01, LS_16.03, LS_16.05, LS_16.06, LS_20.03, LS_20.06, LS_20.07, LS_20.09, LS_20.13, NSF04_02.01, NSF04_02.05, NSF04_03.01, NSF04_09.03, NSF04_11.02</p>	
<p>SS.SMu.CFiMu</p> <p>Circalittoral fine mud</p> <p>FMA05_05.04, FMA05_12.04, FMA05_12.06, FMA05_13.02, FMA05_13.05, FMA05_16.02, FMA05_24.01, FMA05_24.04, FMA05_28.03, FMA05_29.02, FMA05_29.04, FMA05_33.02</p>	

SS.SMu.CFiMu.SpnMeg

Seapens and burrowing megafauna in circalittoral fine mud

FMA01_01.01,
FMA01_01.02,
FMA01_04.01,
FMA01_04.03, FMA01_05,
FMA01_06.01,
FMA01_07.01,
FMA01_07.02,
FMA01_07.03,
FMA01_07.05, FMA01_12,
FMA01_16.01, FMA01_17,
FMA01_18.01,
[FMA01_18.02](#), FMA01_20,
FMA01_23.01,
FMA01_23.03,
FMA01_23.05,
FMA01_31.01,
FMA01_31.02,
FMA01_31.03,
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FMA04_01.03,
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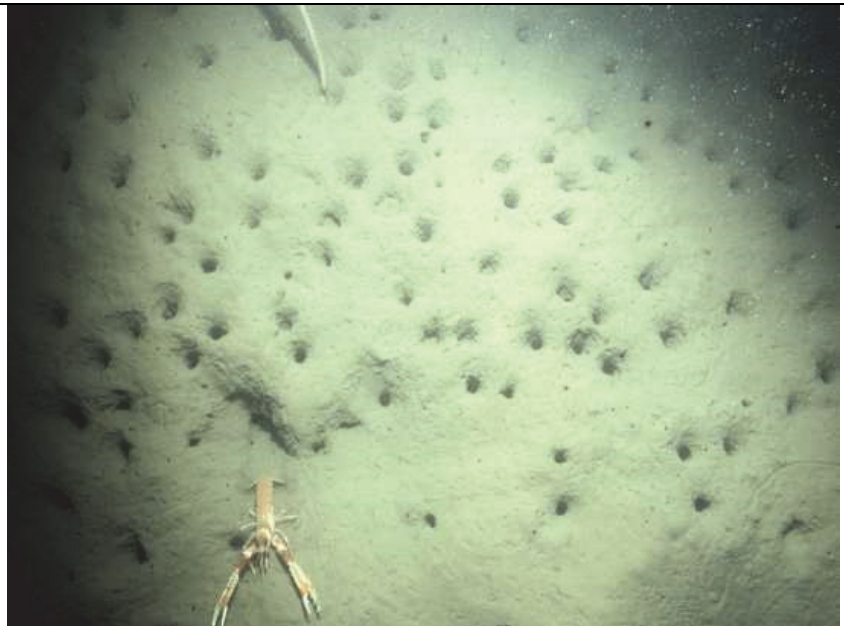


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 NSF04_10.01, NSF04_12,
 NSF04_14.01, NSF04_14.02,
 NSF04_15.01

SS.SMu.CFiMu.SpnMeg.Fun

Seapens, including *Funiculina quadrangularis*, and burrowing megafauna in undisturbed circalittoral fine mud

FMA01_02, FMA01_22,
 FMA04_03, FMA04_04,
 FMA04_05, FMA04_06,
 FMA04_09, FMA04_14.07,
 FMA04_15, FMA04_21.01,
 FMA05_01, FMA05_03,
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 FMA05_05.02,
 FMA05_05.05, FMA05_06,
 FMA05_07, [FMA05_09](#),
 FMA05_14, FMA05_15,
 FMA05_16.04, FMA05_18,
 FMA05_19, FMA05_20,
 FMA05_24.03,
 FMA05_24.05,
 FMA05_28.01, LS_08,
 LS_09, LS_15,
 NSF04_09.05, NSF04_17.02,
 SoM_02.01, SoM_03.02,
 SoM_04.03



SS.SMu.OMu

Offshore circalittoral mud
 FMA01_03.02,
 FMA01_04.04,
 FMA01_06.02,
 FMA01_06.03, FMA01_08,
 FMA01_09.01,
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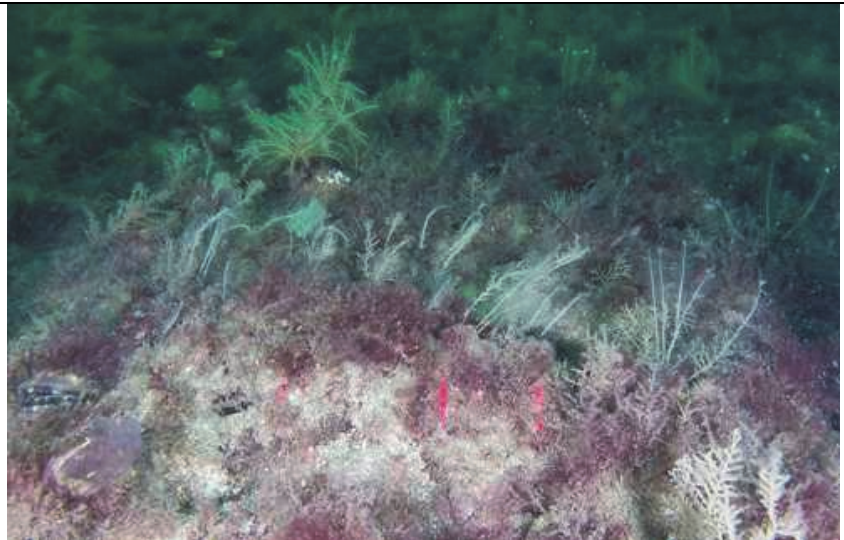


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 FMA04_21.02,
 FMA04_22.04, NSF04_05.05,
 NSF04_06.06, NSF04_07.01,
 NSF04_07.04, NSF04_10.03,
 NSF04_10.05, SH_V43.03

SS.SMx.IMx.Lim

Limaria hians beds in tide-swept sublittoral muddy mixed sediment

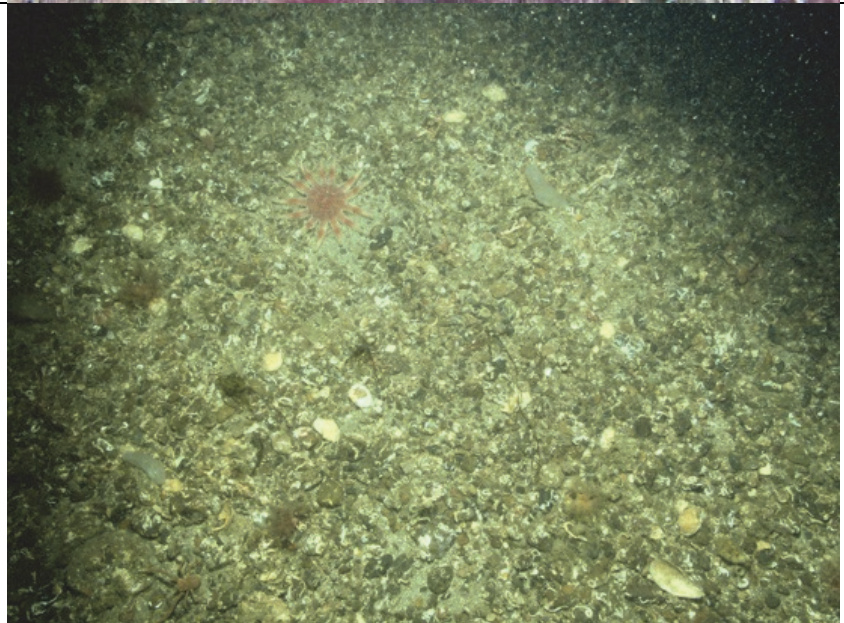
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 LC06.01, LC07.01, LC08.01,
 LC08.02, LC09.01, LC10,
 LC11, LC12.01, LC12.03,
 LC13.01, LC13.02, LC15.01,
 LC15.02, LC16, LC18.01,
 LC18.02, LC19.01, LS_06.02



SS.SMx.CMx

Cirralittoral mixed sediment

FMA05_17.01,
 FMA05_17.03,
 FMA05_17.05,
 FMA05_26.01,
 FMA05_26.03,
 FMA05_34.02, LA1_1.01,
 LA1_1.03, LA1_1.04,
 LA2_1.01, LA2_1.02,
 LA2_1.03, LC18.03, LC19.02,
 LS_02.03, LS_03.05,
 LS_05.04, LS_06.01,
 LS_06.03, LS_06.06,
 LS_18.02, LS_19.01,
 LS_19.02, LS_20.01,
 S10_V1_17.2, SH_V16.01,
 SH_V16.03, SH_V20.06,

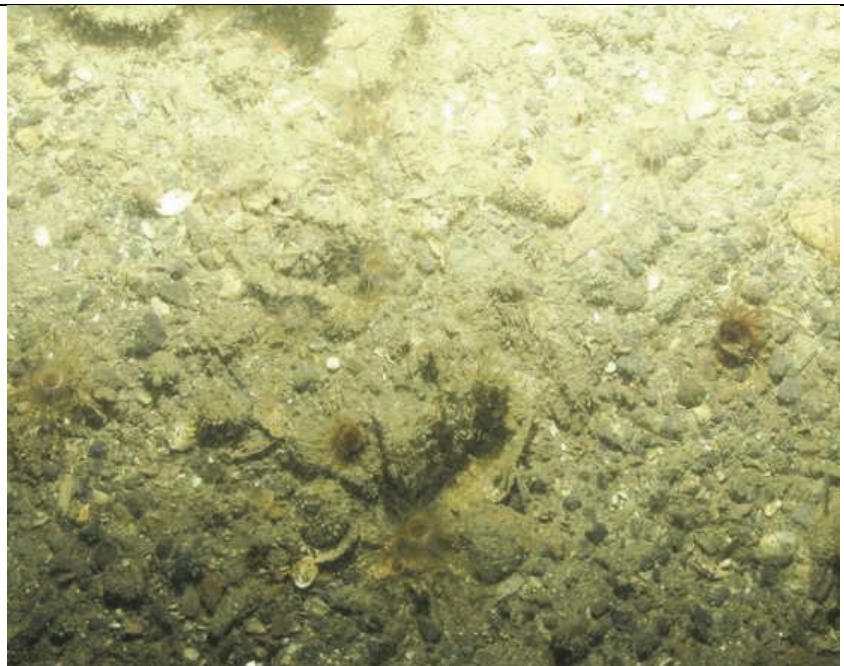


SH_V20.10, SH_V24.02,
SH_V24.04, SH_V30.02,
SH_V44.03, SH_V44.06,
SH_V44.08, SH_V5/6.01,
SH_V5/6.02, SH_V5/6.03,
SH_V50.06, SH_V50.08,
SoM_01.02, SoM_01.03,
SoM_01.04, SoM_02.02,
SoM_04.02, SoM_05.01,
SoM_05.02, SoM_05.03,
SoM_06.01, SoM_07.01,
SoM_08.01, SoM_08.03,
SoM_08.05, SoM_09,
SoM_11.02, SoM_11.03

SS.SMx.CMx.CIlOMx

Cerianthus lloydii and other
burrowing anemones in
circalittoral muddy mixed
sediment

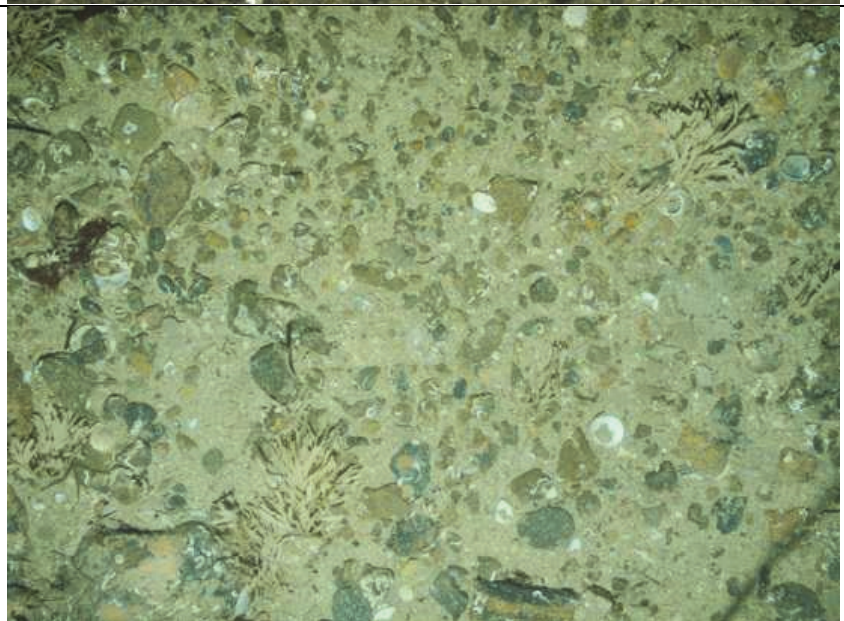
LS_01.01, LS_01.02,
[LS_02.01](#), LS_02.02,
LS_02.04, LS_02.05,
LS_02.08, LS_04.01,
LS_04.03, LS_05.01,
LS_05.06, LS_07.01,
LS_07.02, LS_07.03



SS.SMx.CMx.FluHyd

Flustra foliacea and
Hydrallmania falcata on tide-
swept circalittoral mixed
sediment

[SH_V21](#)



SS.SMx.CMx.OphMx

Ophiothrix fragilis and/or
Ophiocomina nigra brittlestar
beds on sublittoral mixed
sediment

LC01.1, LC02, LC03,
LC04.01, LC04.02, LC05.01,
LC05.02, LC06.01, LC06.02,
LC07.01, LC07.02, LC08.01,
LC08.02, LC08.03, LC09.01,
LC09.02, LS_02.07,
LS_04.02, LS_06.02,
[LS_06.05](#), LS_11.03,
LS_16.07, SH_V20.01,
SH_V20.03, SH_V20.04,
SH_V20.05, SH_V20.07,
SH_V24.01, SH_V24.03,
SH_V24.04, SH_V24.05,
SH_V25.01, SH_V25.03,
SH_V30.02, SH_V30.04,
SH_V30.06, SH_V30.08,
SH_V30.09



SS.SMx.OMx

Offshore circalittoral mixed
sediment

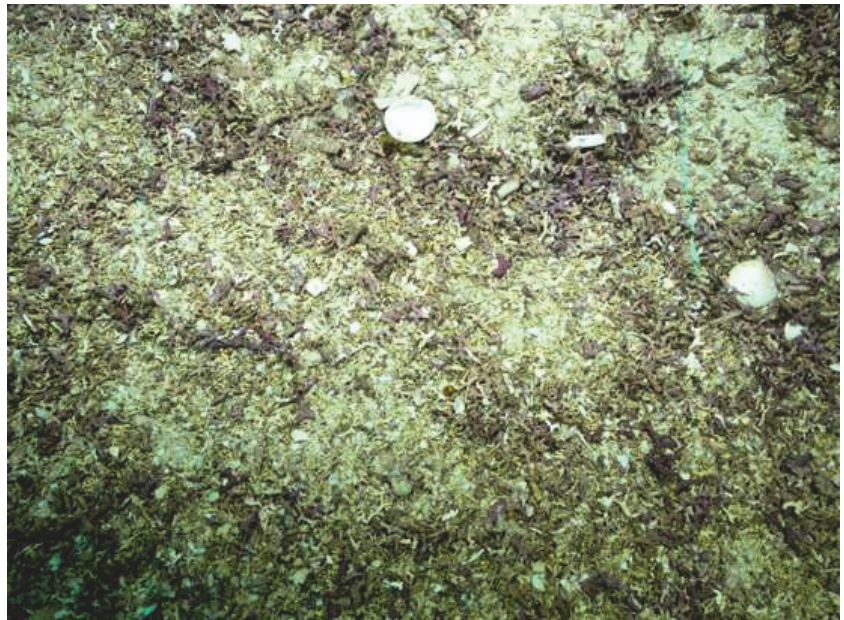
[FMA01_15.01](#),
FMA01_15.03,
FMA04_01.01, FMA04_07,
FMA04_08, FMA04_17.01,
FMA04_17.03,
FMA04_22.01,
FMA04_22.03,
FMA04_22.05, SH_V36



SS.SMp.Mrl.Pcal.Nmix

Phymatolithon calcareum
maerl beds with
Neopentadactyla mixta and
other echinoderms in deeper
infralittoral clean gravel or
coarse sand

S10_V2_17.2, S10_V2_18.1,
S10_V2_18.3, S3_V1_17.3,
S3_V1_17.5, S3_V1_17.7,
S3_V1_17.9, S3_V2_18.4,
S3_V2_18.6, S3_V4_17.1,
S3_V4_17.3, S3_V4_17.5,
S3_V4_18.4, S4_V1_17.1,
S4_V1_17.11, S4_V1_17.13,
S4_V1_17.15, S4_V1_17.18,
S4_V1_17.20, S4_V1_17.22,
S4_V1_17.9, S4_V1_18.1,
S4_V1_18.10, S4_V1_18.15,
S4_V1_18.23, S4_V1_18.8,
S4_V2_17.12, S4_V2_17.14,
S4_V2_17.18, S4_V2_17.20,
S4_V2_17.23, S4_V2_17.6,
S4_V2_17.8, S4_V2_18.1,
S4_V2_18.11, [S4_V2_18.13](#),
S4_V2_18.15, S4_V2_18.17,
S4_V2_18.19, S4_V2_18.3,
S4_V2_18.5, S4_V2_18.7,
S4_V2_18.9, S4_V3_17.1,
S4_V3_17.13, S4_V3_17.17,
S4_V3_17.19, S4_V3_17.21,
S4_V3_17.25, S4_V3_17.27,
S4_V3_17.4, S4_V3_17.7,
S4_V3_17.9, S4_V3_18.1,
S4_V3_18.11, S4_V3_18.15,
S4_V3_18.18, S4_V3_18.20,
S4_V3_18.22, S4_V3_18.24,
S4_V3_18.26, S4_V3_18.6,
S4_V3_18.8, S5_V1_17.1,
S5_V1_17.11, S5_V1_17.13,
S5_V1_17.15, S5_V1_17.17,
S5_V1_17.19, S5_V1_17.21,
S5_V1_17.3, S5_V1_17.5,
S5_V1_17.7, S5_V1_17.8,
S5_V1_17.9, S5_V1_18.1,
S5_V1_18.3, S5_V2_17.02,
S5_V2_17.04, S5_V2_17.06,
S5_V2_17.08, S5_V2_17.10,
S5_V2_17.12, S5_V2_17.14,
S5_V2_17.16, S5_V2_17.18,
S5_V2_18.1, S5_V2_18.3,
S5_V3_18.1, S5_V3_18.3,
S6_V1_17.01, S6_V1_17.03,
S6_V1_17.05, S6_V1_17.07,
S6_V1_17.09, S6_V1_17.11,
S6_V1_17.12, S6_V1_17.13,
S6_V1_17.18, S6_V2_17.1,



S6_V2_17.3, S6_V2_17.5,
S6_V2_18.5, S6_V2_18.8,
S6_V3_18, S6_V4_18.1,
S6_V4_18.3, S6_V4_18.5,
S8_V1_18.2, S8_V2_18.3,
S9_V1_17.15, S9_V1_18.2,
S9_V2_17.2, S9_V2_17.4,
S9_V3_18.2, S9_V3_18.5,
S9_V3_18.7, S9_V4_18.2,
S9_V4_18.4, S9_V4_18.6,
S9_V4_18.8

SS.SMp.KSwSS.SlatR

Saccharina latissima and red seaweeds on infralittoral sediments

LC17



SS.SBR.SMus.ModT

Modiolus modiolus beds with hydroids and red seaweeds on tide-swept circalittoral mixed substrata

LA1_1.05, SH_V24.01



SS.SBR.SMus.ModHAs

Modiolus modiolus beds with fine hydroids and large solitary ascidians on very sheltered circalittoral mixed substrata

SoM_10

(*Modiolus* clump ringed)



ANNEX 6: PMF, PROTECTED FEATURE AND QUALIFYING ANNEX I HABITAT TYPE ABBREVIATIONS USED IN TABLES

PMFs & PFs

AI	<i>Arctica islandica</i>
BM:SB	Burrowed mud: sea pens and burrowing megafauna
BM:MM	Burrowed mud: Burrowing megafauna and <i>Maxmuelleria lankesteri</i> in circalittoral mud
BM:FQ	Burrowed mud: <i>Funiculina quadrangularis</i>
BM:PM	Burrowed mud: <i>Pachycerianthus multiplicatus</i>
DB	<i>Dipturus batis</i>
FS:LH	Flameshell beds: <i>Limaria hians</i> beds
GM	<i>Gadus morhua</i>
HM:FH	Horse mussel beds: with fine hydroids and large solitary ascidians on very sheltered circalittoral mixed substrata
HM:TS	Horse mussel beds: on tide-swept circalittoral mixed substrata
KS	Kelp and seaweed communities on sublittoral sediment
LC	<i>Leptometra celtica</i>
LA	<i>Leptometra celtica</i> aggregation on mixed substrates
LP	<i>Lophius piscatorius</i>
MB	Maerl beds
MC	Maerl or coarse shell gravel with burrowing sea cucumbers
MM	<i>Molva molva</i>
NS:CS	Northern sea fan and sponge communities: <i>Caryophyllia smithii</i> and <i>Swiftia pallida</i> on circalittoral rock
NS:DS	Northern sea fan and sponge communities: Deep sponge communities (circalittoral)
NS:MT	Northern sea fan and sponge communities: Mixed turf of hydroids and large ascidians with <i>Swiftia pallida</i> and <i>Caryophyllia smithii</i> on weakly tide-swept circalittoral rock
NS:SP	Northern sea fan and sponge communities: <i>Swiftia pallida</i>
PA	<i>Parazoanthus anguicomus</i>
SE	Sandeels (<i>Ammodytes marinus</i> and <i>A. tobianus</i>)
TS:KS	Tide-swept algal communities: Kelp and seaweed communities in tide-swept sheltered conditions

Annex 1 habitats

RF:BR	Reef: bedrock
RF:ST	Reef: stony
RF:BH	Reef: biogenic (Horse mussel)
SB:GS	Sandbanks slightly covered by seawater all the time: gravelly and clean sands
SB:MS	Sandbanks slightly covered by seawater all the time: muddy sand
SB:MX	Sandbanks slightly covered by seawater all the time: mixed sediment
SB:MB	Sandbanks slightly covered by seawater all the time: maerl beds



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