

CEFAS

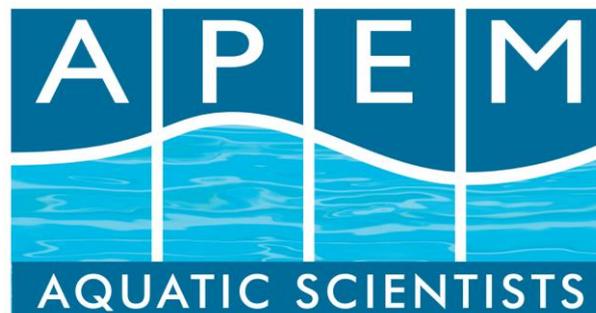
BASSURELLE SANDBANKS

VIDEO ANALYSIS

FINAL REPORT

05/06/2013

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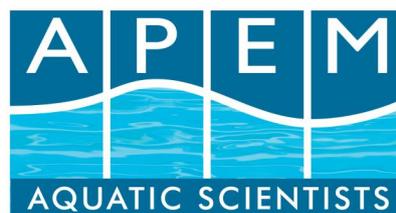
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1 INTRODUCTION

This study was undertaken on behalf of the Centre for Environment, Fisheries and Aquaculture Science (CEFAS), using videos and stills taken by camera sledge in the Bassurelle Sandbanks candidate special area of conservation (cSAC) in the English Channel (southeast UK). From these images, broadscale habitats were determined and all biota and substrate types were identified in order to provide semi-quantitative physical and biological data on this cSAC. On each transect, a continuous video was recorded and several stills captured along the way. For each station, the video was analysed first, followed by the accompanying stills. Substratum types were recorded and used in conjunction with biological data to determine biotopes for each video transect and each individual still. A total of 32 videos and 519 stills were analysed.

2 METHODS

The video record was initially viewed at normal speed with all biota recorded as individuals (for solitary and motile species) or percentage cover (for colonial/encrusting species). From these data, a corresponding SACFOR value was assigned to each species for every video. The initial substratum type was also recorded as percentage cover (e.g. 90% sand, 5% gravel, 5% shell). The video was then viewed at twice normal speed and any substratum changes lasting more than one minute were recorded. This subsequently enabled the separation of biological communities according to substratum type, which was found to be more efficient than separating different substrata before the biological analysis. The stills for each station were analysed immediately after the corresponding video, to easily enable cross-referencing between the two. Substratum type and biota were recorded in the same manner as per the videos.

For quality assurance (QA) purposes, videos and stills from at least 10% of stations (as well as taxa recorded tentatively or for the first time) were checked by Tim Worsfold (Technical Specialist, APEM). Any discrepancies were recorded and corrected. For example, incorrect identifications were either corrected or moved to a higher taxonomic level (i.e. Trachinidae to Actinopterygii); while any missed taxa were added to the data set. This was carried out during the analysis in order to improve identification in subsequent videos and stills. All taxa were recorded in accordance with the World Register of Marine Species (WoRMS) and life forms according to Annex 8 in the CEFAS video and stills processing protocol.

Substratum data were then used to assign broadscale habitat (BSH, which also includes a EUNIS code) and habitat FOCI (Features of Conservation Importance) descriptions based on the 'modified' Folk trigon used by the UK SeaMap and MESH projects to assign Folk sediment classes to four broad sediment classes (Long, 2006). This was then combined with the biological data to assign a MNCR code and biotope descriptor (Connor *et al.*, 2004; higher level codes were suggested tentatively). Each MNCR code has a corresponding EUNIS code, which was also recorded.

3 RESULTS

All stations were generally composed of sand with varying proportions of mud, gravel, shells and cobbles/pebbles. As such, the EUNIS codes A5.1 (MNCR code SS.SCS), A5.2 (MNCR code SS.SSa) and A5.4 (MNCR code SS.SMx) were the only low level (broad) biotope classifications observed. Based on the fauna observed (see below), the high level (detailed) biotope SS.SSa.IMuSa.EcorEns was tentatively suggested for eight stations. For one station that contained muddy sand with arenicolid burrows (as well as *Ensis* ? and/or *Echinocardium cordatum*), the biotope complex SS.SSa.IMuSa was suggested.

By far the most commonly recorded species was the common hermit crab (*Pagurus bernhardus*), which was present at almost every station. Some stations contained high numbers of burrows from which strong exhalent currents were observed (recorded as the razor shell '*Ensis* ?') and/or common starfish (*Asterias rubens*), whilst others contained high numbers of fish such as gobies (*Pomatoschistus*), and members of the weever fish (Trachinidae) and sand eel (Ammodytidae) families; many others were unidentifiable and recorded only as 'Actinopterygii'. Sand mason (*Lanice conchilega*) and the anemone *Sagartia troglodytes* were also present at several stations. The hydroid *Hydrallmania falcata* was relatively rare but present at some stations, so was used to determine biotope classifications. Similarly, the sea potato (*Echinocardium cordatum*) was rarely recorded but would have been much more common, as it lives mainly below the surface. Full results for each video station segment are presented in Tables 1-39.

Table 1. Biological and physical characteristics of station BSSS012_295_S1.

Taxon	Abundance	SACFOR
<i>Asterias rubens</i>	3	F
<i>Ensis?</i>	2	O
Hydroid/Bryozoa	P	R
<i>Ophiura</i>	1	O
<i>Pagurus bernhardus</i>	25	F
Pleuronectidae	1	F
Portunidae	1	O
Trachinidae	1	O
Substratum	% cover	
Cobbles 64mm to 256mm	4	
Pebbles 4mm to 64mm	8	
Shells_Empty	8	
Granule 2mm to 4mm	30	
Sand 0.063mm to 2mm	50	
Biotope		
<i>Broadscale Habitat</i>	A5.1 - Subtidal Coarse Sediment	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.1	
<i>MNCR code</i>	SS.SCS	
<i>Classification (Exact copy of MNCR descriptor)</i>	Sublittoral coarse sediment (unstable cobbles and pebbles, gravels and coarse sands)	

Table 2. Biological and physical characteristics of station BSSS033_298_S1.

Taxon	Abundance	SACFOR
<i>Asterias rubens</i>	11	C
Bivalvia	1	O
<i>Chaetopterus</i>	1	O
Hydroid/Bryozoa	P	R
<i>Ophiura</i>	1	O
<i>Pagurus bernhardus</i>	11	F
Substratum	% cover	
Cobbles 64mm to 256mm	3	
Pebbles 4mm to 64mm	5	
Shells_Empty	10	
Granule 2mm to 4mm	32	
Sand 0.063mm to 2mm	50	
Biotope		
<i>Broadscale Habitat</i>	A5.1 - Subtidal Coarse Sediment	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.1	
<i>MNCR code</i>	SS.SCS	
<i>Classification (Exact copy of MNCR descriptor)</i>	Sublittoral coarse sediment (unstable cobbles and pebbles, gravels and coarse sands)	

Table 3. Biological and physical characteristics of station BSSS050_301_S1.

Taxon	Abundance	SACFOR
Animalia	1	R
<i>Asterias rubens</i>	12	C
<i>Callionymus</i>	2	F
Gadidae	1	F
Hydroid/Bryozoa	P	R
<i>Pagurus bernhardus</i>	16	F
<i>Pomatoschistus</i>	1	O
Substratum	% cover	
Cobbles 64mm to 256mm	5	
Pebbles 4mm to 64mm	35	
Shells_Empty	25	
Granule 2mm to 4mm	20	
Sand 0.063mm to 2mm	15	
Biotope		
<i>Broadscale Habitat</i>	A5.1 - Subtidal Coarse Sediment	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.1	
<i>MNCR code</i>	SS.SCS	
<i>Classification (Exact copy of MNCR descriptor)</i>	Sublittoral coarse sediment (unstable cobbles and pebbles, gravels and coarse sands)	

Table 4. Biological and physical characteristics of station BSSS071_306_S1.

Taxon	Abundance	SACFOR
Actinopterygii	7	O
<i>Agonus cataphractus</i>	1	F
Ammodytidae	1	F
<i>Asterias rubens</i>	1	F
<i>Chaetopterus</i>	1	O
<i>Pagurus bernhardus</i>	4	O
Polychaeta	1	R
<i>Pomatoschistus</i>	1	O
Trachinidae	6	O
Substratum	% cover	
Granule 2mm to 4mm	10	
Sand 0.063mm to 2mm	70	
Mud less than 0.063mm	20	
Biotope		
<i>Broadscale Habitat</i>	A5.4 - Subtidal Mixed Sediment	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.4	
<i>MNCR code</i>	SS.SMx	
<i>Classification (Exact copy of MNCR descriptor)</i>	Sublittoral mixed sediment	

Table 5. Biological and physical characteristics of station BSSS058_309_S1.

Taxon	Abundance	SACFOR
Actinopterygii	5	O
<i>Callionymus</i>	2	F
<i>Ensis?</i>	6	O
Hydroid/Bryozoa	P	R
<i>Pagurus bernhardus</i>	4	O
<i>Pomatoschistus</i>	1	O
Trachinidae	1	O
Substratum	% cover	
Shell_2mm to 16mm	10	
Granule 2mm to 4mm	15	
Sand 0.063mm to 2mm	75	
Biotope		
<i>Broadscale Habitat</i>	A5.1 - Subtidal Coarse Sediment	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.1	
<i>MNCR code</i>	SS.SCS	
<i>Classification (Exact copy of MNCR descriptor)</i>	Sublittoral coarse sediment (unstable cobbles and pebbles, gravels and coarse sands)	

Table 6. Biological and physical characteristics of station BSSS044_313_S1.

Taxon	Abundance	SACFOR
<i>Asterias rubens</i>	1	C
<i>Echinocardium cordatum</i>	1	F
Hydroid/Bryozoa	P	O
Substratum	% cover	
Shell_2mm to 16mm	1	
Granule 2mm to 4mm	3	
Sand 0.063mm to 2mm	96	
Biotope		
<i>Broadscale Habitat</i>	A5.2 - Subtidal Sand	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.241	
<i>MNCR code</i>	SS.SSa.IMuSa.EcorEns	
<i>Classification (Exact copy of MNCR descriptor)</i>	Echinocardium cordatum and Ensis spp. in lower shore and shallow sublittoral slightly muddy fine sand	

Table 7. Biological and physical characteristics of station BSSS044_313_S2.

Taxon	Abundance	SACFOR
Hydroid/Bryozoa	P	R
Substratum	% cover	
Pebbles 4mm to 64mm	10	
Shell_2mm to 16mm	15	
Granule 2mm to 4mm	10	
Sand 0.063mm to 2mm	65	
Biotope		
<i>Broadscale Habitat</i>	A5.1 - Subtidal Coarse Sediment	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.1	
<i>MNCR code</i>	SS.SCS	
<i>Classification (Exact copy of MNCR descriptor)</i>	Sublittoral coarse sediment (unstable cobbles and pebbles, gravels and coarse sands)	

Table 8. Biological and physical characteristics of station BSSS044_313_S3.

Taxon	Abundance	SACFOR
Hydroid/Bryozoa	P	O
Substratum	% cover	
Shell_2mm to 16mm	1	
Granule 2mm to 4mm	3	
Sand 0.063mm to 2mm	96	
Biotope		
<i>Broadscale Habitat</i>	A5.2 - Subtidal Sand	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.2	
<i>MNCR code</i>	SS.SSa	
<i>Classification (Exact copy of MNCR descriptor)</i>	Sublittoral sands and muddy sands	

Table 9. Biological and physical characteristics of station BSSS044_313_S4.

Taxon	Abundance	SACFOR
Hydroid/Bryozoa	P	O
<i>Pecten maximus</i>	1	F
Substratum	% cover	
Pebbles 4mm to 64mm	10	
Shell_2mm to 16mm	15	
Granule 2mm to 4mm	10	
Sand 0.063mm to 2mm	65	
Biotope		
<i>Broadscale Habitat</i>	A5.1 - Subtidal Coarse Sediment	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.1	
<i>MNCR code</i>	SS.SCS	
<i>Classification (Exact copy of MNCR descriptor)</i>	Sublittoral coarse sediment (unstable cobbles and pebbles, gravels and coarse sands)	

Table 10. Biological and physical characteristics of station BSS044_313_S5.

Taxon	Abundance	SACFOR
Hydroid/Bryozoa	P	R
Substratum	% cover	
Shell_2mm to 16mm	1	
Granule 2mm to 4mm	3	
Sand 0.063mm to 2mm	96	
Biotope		
<i>Broadscale Habitat</i>	A5.2 - Subtidal Sand	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.2	
<i>MNCR code</i>	SS.SSa	
<i>Classification (Exact copy of MNCR descriptor)</i>	Sublittoral sands and muddy sands	

Table 11. Biological and physical characteristics of station BSS024_318_S1.

Taxon	Abundance	SACFOR
Actinopterygii	1	O
<i>Asterias rubens</i>	2	F
Hydroid/Bryozoa	P	R
<i>Pagurus bernhardus</i>	2	O
Substratum	% cover	
Pebbles 4mm to 64mm	2	
Shells_Empty	2	
Granule 2mm to 4mm	36	
Sand 0.063mm to 2mm	60	
Biotope		
<i>Broadscale Habitat</i>	A5.1 - Subtidal Coarse Sediment	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.1	
<i>MNCR code</i>	SS.SCS	
<i>Classification (Exact copy of MNCR descriptor)</i>	Sublittoral coarse sediment (unstable cobbles and pebbles, gravels and coarse sands)	

Table 12. Biological and physical characteristics of station BSSS039_321_S1.

Taxon	Abundance	SACFOR
Ammodytidae	1	F
<i>Asterias rubens</i>	4	F
<i>Ensis?</i>	2	O
Hydroid/Bryozoa	P	O
<i>Pagurus bernhardus</i>	2	O
Trachinidae	3	O
Substratum	% cover	
Pebbles 4mm to 64mm	1	
Shells_Empty	1	
Granule 2mm to 4mm	3	
Sand 0.063mm to 2mm	95	
Biotope		
<i>Broadscale Habitat</i>	A5.2 - Subtidal Sand	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.2	
<i>MNCR code</i>	SS.SSa	
<i>Classification (Exact copy of MNCR descriptor)</i>	Sublittoral sands and muddy sands	

Table 13. Biological and physical characteristics of station BSSSAddGT02_323_S1.

Taxon	Abundance	SACFOR
Actinopterygii	1	O
Ammodytidae	8	F
<i>Callionymus</i>	2	F
<i>Pomatoschistus</i>	4	O
<i>Pomatoschistus?</i>	2	O
Portunidae?	1	O
Trachinidae	3	O
Substratum	% cover	
Granule 2mm to 4mm	3	
Sand 0.063mm to 2mm	97	
Biotope		
<i>Broadscale Habitat</i>	A5.2 - Subtidal Sand	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.2	
<i>MNCR code</i>	SS.SSa	
<i>Classification (Exact copy of MNCR descriptor)</i>	Sublittoral sands and muddy sands	

Table 14. Biological and physical characteristics of station BSSS072_331_S1.

Taxon	Abundance	SACFOR
Actinopterygii	7	O
Ammodytidae	1	F
Arenicolidae	1	O
<i>Ensis?</i>	1	O
Polychaeta	3	R
Substratum	% cover	
Sand 0.063mm to 2mm	80	
Mud less than 0.063mm	20	
Biotope		
<i>Broadscale Habitat</i>	A5.2 - Subtidal Sand	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.2	
<i>MNCR code</i>	SS.SSa	
<i>Classification (Exact copy of MNCR descriptor)</i>	Sublittoral sands and muddy sands	

Table 15. Biological and physical characteristics of station BSSSAddGT10_336_S1.

Taxon	Abundance	SACFOR
Actinopterygii	2	O
Ammodytidae	10	C
Brachyura	1	O
<i>Ensis?</i>	1	O
<i>Hydrallmania falcata</i>	P	R
Substratum	% cover	
Granule 2mm to 4mm	1	
Sand 0.063mm to 2mm	99	
Biotope		
<i>Broadscale Habitat</i>	A5.2 - Subtidal Sand	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.2	
<i>MNCR code</i>	SS.SSa	
<i>Classification (Exact copy of MNCR descriptor)</i>	Sublittoral sands and muddy sands	

Table 16. Biological and physical characteristics of station BSSSAddGT10_339_S1.

Taxon	Abundance	SACFOR
Actinopterygii	4	O
Ammodytidae	4	F
Brachyura	1	F
<i>Ensis?</i>	3	O
<i>Lanice conchilega</i>	1	F
<i>Ophiura</i>	1	F
<i>Pagurus bernhardus</i>	3	O
Substratum	% cover	
Granule 2mm to 4mm	4	
Sand 0.063mm to 2mm	96	
Biotope		
<i>Broadscale Habitat</i>	A5.2 - Subtidal Sand	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.2	
<i>MNCR code</i>	SS.SSa	
<i>Classification (Exact copy of MNCR descriptor)</i>	Sublittoral sands and muddy sands	

Table 17. Biological and physical characteristics of station BSSSAddGT01_343_S1.

Taxon	Abundance	SACFOR
Actinopterygii	1	O
Ammodytidae	8	F
<i>Callionymus</i>	2	F
<i>Pomatoschistus</i>	4	O
<i>Pomatoschistus?</i>	2	O
Portunidae?	1	O
Trachinidae	3	O
Substratum	% cover	
Granule 2mm to 4mm	4	
Sand 0.063mm to 2mm	96	
Biotope		
<i>Broadscale Habitat</i>	A5.4 - Subtidal Mixed Sediment	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.4	
<i>MNCR code</i>	SS.SMx	
<i>Classification (Exact copy of MNCR descriptor)</i>	Sublittoral mixed sediment	

Table 18. Biological and physical characteristics of station BSS025_350_S1.

Taxon	Abundance	SACFOR
<i>Agonus cataphractus</i>	1	O
<i>Asterias rubens</i>	3	F
<i>Chaetopterus</i>	1	O
<i>Ensis?</i>	8	O
Hydroid/Bryozoa	P	R
Polychaeta	1	R
<i>Pagurus bernhardus</i>	72	F
<i>Pomatoschistus</i>	1	O
Portunidae	1	O
Trachinidae	1	O
Substratum	% cover	
Cobbles 64mm to 256mm	5	
Pebbles 4mm to 64mm	5	
Shells_Empty	5	
Granule 2mm to 4mm	30	
Sand 0.063mm to 2mm	55	
Biotope		
<i>Broadscale Habitat</i>	A5.1 - Subtidal Coarse Sediment	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.1	
<i>MNCR code</i>	SS.SCS	
<i>Classification (Exact copy of MNCR descriptor)</i>	Sublittoral coarse sediment (unstable cobbles and pebbles, gravels and coarse sands)	

Table 19. Biological and physical characteristics of station BSSS036_356_S1.

Taxon	Abundance	SACFOR
Actinopterygii	2	O
<i>Agonus cataphractus</i>	1	O
Ammodytidae	6	F
<i>Asterias rubens</i>	2	F
<i>Ensis?</i>	12	F
Hydroid/Bryozoa	P	R
<i>Mullus surmuletus</i>	1	O
<i>Ophiura</i>	2	F
<i>Pagurus bernhardus</i>	4	O
<i>Pleuronectes platessa</i>	1	F
Trachinidae	3	O
Substratum	% cover	
Pebbles 4mm to 64mm	1	
Shells_Empty	1	
Granule 2mm to 4mm	3	
Sand 0.063mm to 2mm	95	
Biotope		
<i>Broadscale Habitat</i>	A5.2 - Subtidal Sand	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.2	
<i>MNCR code</i>	SS.SSa	
<i>Classification (Exact copy of MNCR descriptor)</i>	Sublittoral sands and muddy sands	

Table 20. Biological and physical characteristics of station BSSS040_358_S1.

Taxon	Abundance	SACFOR
<i>Agonus cataphractus</i>	1	O
Arenicolidae	6	O
<i>Asterias rubens</i>	4	F
<i>Corystes cassivelaunus</i>	1	O
<i>Echinocardium cordatum</i>	7	O
<i>Ensis?</i>	1	F
<i>Ophiura</i>	1	O
<i>Pagurus bernhardus</i>	12	F
Polychaeta	1	R
Substratum	% cover	
Shells_Empty	1	
Granule 2mm to 4mm	2	
Sand 0.063mm to 2mm	97	
Biotope		
<i>Broadscale Habitat</i>	A5.2 - Subtidal Sand	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.241	
<i>MNCR code</i>	SS.SSa.IMuSa.EcorEns	
<i>Classification (Exact copy of MNCR descriptor)</i>	Echinocardium cordatum and Ensis spp. in lower shore and shallow sublittoral slightly muddy fine sand	

Table 21. Biological and physical characteristics of station BSS055_362_S1.

Taxon	Abundance	SACFOR
Actiniaria	1	R
Arenicolidae	6	O
<i>Asterias rubens</i>	4	F
<i>Buglossidium luteum</i>	1	F
<i>Ensis?</i>	7	O
Gadidae	1	F
<i>Lanice conchilega</i>	2	O
<i>Nephtys caeca</i>	1	R
<i>Ophiura</i>	1	O
<i>Pagurus bernhardus</i>	12	F
<i>Pomatoschistus</i>	1	O
<i>Solea solea</i>	2	F
Substratum	% cover	
Shells_Empty	10	
Granule 2mm to 4mm	5	
Sand 0.063mm to 2mm	85	
Biotope		
<i>Broadscale Habitat</i>	A5.1 - Subtidal Coarse Sediment	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.1	
<i>MNCR code</i>	SS.SCS	
<i>Classification (Exact copy of MNCR descriptor)</i>	Sublittoral coarse sediment (unstable cobbles and pebbles, gravels and coarse sands)	

Table 22. Biological and physical characteristics of station BSSS055_362_S2.

Taxon	Abundance	SACFOR
Actinopterygii	2	O
<i>Agonus cataphractus</i>	1	F
Ammodytidae	1	F
<i>Ensis?</i>	10	F
<i>Pagurus bernhardus</i>	1	O
Substratum	% cover	
Shells_Empty	4	
Sand 0.063mm to 2mm	96	
Biotope		
<i>Broadscale Habitat</i>	A5.2 - Subtidal Sand	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.241	
<i>MNCR code</i>	SS.SSa.IMuSa.EcorEns	
<i>Classification (Exact copy of MNCR descriptor)</i>	Echinocardium cordatum and Ensis spp. in lower shore and shallow sublittoral slightly muddy fine sand	

Table 23. Biological and physical characteristics of station BSS069_365_S1.

Taxon	Abundance	SACFOR
Actinopterygii	8	O
Arenicolidae	1	O
<i>Asterias rubens</i>	1	F
Brachyura	1	O
<i>Callionymus</i>	2	F
Caridea	1	O
<i>Ensis?</i>	4	O
<i>Lanice conchilega</i>	3	O
<i>Nassarius reticulatus</i>	2	R
<i>Pagurus bernhardus</i>	19	F
<i>Pomatoschistus</i>	1	O
Soleidae	1	F
Trachinidae	2	O
Substratum	% cover	
Shells_Empty	2	
Sand 0.063mm to 2mm	98	
Biotope		
<i>Broadscale Habitat</i>	A5.2 - Subtidal Sand	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.241	
<i>MNCR code</i>	SS.SSa.IMuSa.EcorEns	
<i>Classification (Exact copy of MNCR descriptor)</i>	Echinocardium cordatum and Ensis spp. in lower shore and shallow sublittoral slightly muddy fine sand	

Table 24. Biological and physical characteristics of station BSSS039_369_S1.

Taxon	Abundance	SACFOR
Actinopterygii	3	O
<i>Agonus cataphractus</i>	1	O
Ammodytidae	2	F
<i>Asterias rubens</i>	5	F
<i>Atelecyclus rotundatus</i>	1	O
<i>Callionymus</i>	1	O
<i>Ensis?</i>	2	O
Hydroid/Bryozoa	P	O
<i>Liocarcinus</i>	1	O
<i>Pagurus bernhardus</i>	2	O
Trachinidae	2	O
Substratum	% cover	
Shells_Empty	1	
Granule 2mm to 4mm	4	
Sand 0.063mm to 2mm	95	
Biotope		
<i>Broadscale Habitat</i>	A5.2 - Subtidal Sand	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.241	
<i>MNCR code</i>	SS.SSa.IMuSa.EcorEns	
<i>Classification (Exact copy of MNCR descriptor)</i>	Echinocardium cordatum and Ensis spp. in lower shore and shallow sublittoral slightly muddy fine sand	

Table 25. Biological and physical characteristics of station BSSSAddGT02_370_S1.

Taxon	Abundance	SACFOR
Actinopterygii	4	O
Ammodytidae	14	C
<i>Callionymus</i>	2	O
<i>Ensis?</i>	1	O
Inachidae	1	O
<i>Pomatoschistus</i>	5	O
Trachinidae	6	O
Triglidae	1	F
Substratum	% cover	
Sand 0.063mm to 2mm	100	
Biotope		
<i>Broadscale Habitat</i>	A5.2 - Subtidal Sand	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.241	
<i>MNCR code</i>	SS.SSa.IMuSa.EcorEns	
<i>Classification (Exact copy of MNCR descriptor)</i>	Echinocardium cordatum and Ensis spp. in lower shore and shallow sublittoral slightly muddy fine sand	

Table 26. Biological and physical characteristics of station BSSS099_374_S1.

Taxon	Abundance	SACFOR
Actinopterygii	5	O
<i>Asterias rubens</i>	5	F
<i>Crangon?</i>	1	O
<i>Ensis?</i>	2	O
<i>Pagurus bernhardus</i>	6	O
<i>Pomatoschistus</i>	2	O
Substratum	% cover	
Granule 2mm to 4mm	15	
Sand 0.063mm to 2mm	85	
Biotope		
<i>Broadscale Habitat</i>	A5.1 - Subtidal Coarse Sediment	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.1	
<i>MNCR code</i>	SS.SCS	
<i>Classification (Exact copy of MNCR descriptor)</i>	Sublittoral coarse sediment (unstable cobbles and pebbles, gravels and coarse sands)	

Table 27. Biological and physical characteristics of station BSSS092_376_S1.

Taxon	Abundance	SACFOR
<i>Asterias rubens</i>	4	F
Caridea?	1	O
<i>Corystes cassivelaunus</i>	1	O
Inachidae	1	O
<i>Lanice conchilega</i>	4	O
<i>Ophiura</i>	1	O
<i>Pomatoschistus</i>	1	O
Triglidae	1	F
Substratum	% cover	
Granule 2mm to 4mm	2	
Sand 0.063mm to 2mm	94	
Mud less than 0.063mm	4	
Biotope		
<i>Broadscale Habitat</i>	A5.2 - Subtidal Sand	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.2	
<i>MNCR code</i>	SS.SSa	
<i>Classification (Exact copy of MNCR descriptor)</i>	Sublittoral sands and muddy sands	

Table 28. Biological and physical characteristics of station BSSS084_378_S1.

Taxon	Abundance	SACFOR
Actinopterygii	8	O
<i>Asterias rubens</i>	1	F
<i>Ensis?</i>	1	O
<i>Nassarius reticulatus</i>	1	R
<i>Pagurus bernhardus</i>	2	O
Trachinidae	1	F
Substratum	% cover	
Sand 0.063mm to 2mm	100	
Biotope		
<i>Broadscale Habitat</i>	A5.2 - Subtidal Sand	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.241	
<i>MNCR code</i>	SS.SSa.IMuSa.EcorEns	
<i>Classification (Exact copy of MNCR descriptor)</i>	Echinocardium cordatum and Ensis spp. in lower shore and shallow sublittoral slightly muddy fine sand	

Table 29. Biological and physical characteristics of station BSSS080_385_S1.

Taxon	Abundance	SACFOR
Actinopterygii	8	F
Ammodytidae	1	F
<i>Corystes cassivelaunus</i>	1	O
<i>Nephtys caeca</i>	5	R
<i>Pagurus bernhardus</i>	1	O
<i>Pomatoschistus</i>	1	O
Substratum	% cover	
Sand 0.063mm to 2mm	80	
Mud less than 0.063mm	20	
Biotope		
<i>Broadscale Habitat</i>	A5.2 - Subtidal Sand	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.24	
<i>MNCR code</i>	SS.SSa.IMuSa	
<i>Classification (Exact copy of MNCR descriptor)</i>	Infralittoral muddy sand	

Table 30. Biological and physical characteristics of station BSSS085_387_S1.

Taxon	Abundance	SACFOR
Actinopterygii	3	O
Ammodytidae	2	F
<i>Asterias rubens</i>	7	F
<i>Corystes cassivelaunus</i>	1	O
<i>Echinocardium cordatum</i>	1	O
<i>Pagurus bernhardus</i>	1	O
Substratum	% cover	
Shells_Empty	2	
Sand 0.063mm to 2mm	98	
Biotope		
<i>Broadscale Habitat</i>	A5.2 - Subtidal Sand	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.241	
<i>MNCR code</i>	SS.SSa.IMuSa.EcorEns	
<i>Classification (Exact copy of MNCR descriptor)</i>	Echinocardium cordatum and Ensis spp. in lower shore and shallow sublittoral slightly muddy fine sand	

Table 31. Biological and physical characteristics of station BSSS085_387_S2.

Taxon	Abundance	SACFOR
<i>Actinopterygii</i>	2	O
<i>Agonus cataphractus</i>	1	F
<i>Asterias rubens</i>	6	F
<i>Corystes cassivelaunus</i>	2	O
Hydroid/Bryozoa	P	R
<i>Lanice conchilega</i>	1	O
<i>Liocarcinus</i>	1	O
<i>Pagurus bernhardus</i>	25	F
<i>Pomatoschistus</i>	3	O
Triglidae	1	F
Substratum	% cover	
Granule 2mm to 4mm	20	
Sand 0.063mm to 2mm	80	
Biotope		
<i>Broadscale Habitat</i>	A5.1 - Subtidal Coarse Sediment	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.1	
<i>MNCR code</i>	SS.SCS	
<i>Classification (Exact copy of MNCR descriptor)</i>	Sublittoral coarse sediment (unstable cobbles and pebbles, gravels and coarse sands)	

Table 32. Biological and physical characteristics of station BSSS091_391_S1.

Taxon	Abundance	SACFOR
Actinopterygii	13	F
Ammodytidae	19	C
<i>Brissopsis lyrifera</i>	1	O
<i>Corystes cassivelaunus</i>	2	O
<i>Ensis?</i>	2	O
<i>Nephtys caeca</i>	1	R
<i>Ophiura</i>	1	O
<i>Pagurus bernhardus</i>	1	O
<i>Pomatoschistus</i>	3	O
Substratum	% cover	
Shells_Empty	1	
Sand 0.063mm to 2mm	99	
Biotope		
<i>Broadscale Habitat</i>	A5.2 - Subtidal Sand	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.241	
<i>MNCR code</i>	SS.SSa.IMuSa.EcorEns	
<i>Classification (Exact copy of MNCR descriptor)</i>	Echinocardium cordatum and Ensis spp. in lower shore and shallow sublittoral slightly muddy fine sand	

Table 33. Biological and physical characteristics of station BSSS110_396_S1.

Taxon	Abundance	SACFOR
Actinopterygii	13	F
Ammodytidae	4	F
Caridea?	2	O
<i>Corystes cassivelaunus</i>	1	O
<i>Nephtys caeca</i>	1	R
<i>Pagurus bernhardus</i>	1	O
<i>Pomatoschistus</i>	3	O
Trachinidae	1	O
Substratum	% cover	
Sand 0.063mm to 2mm	80	
Mud less than 0.063mm	20	
Biotope		
<i>Broadscale Habitat</i>	A5.2 - Subtidal Sand	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.2	
<i>MNCR code</i>	SS.SSa	
<i>Classification (Exact copy of MNCR descriptor)</i>	Sublittoral sands and muddy sands	

Table 34. Biological and physical characteristics of station BSSS117_399_S1.

Taxon	Abundance	SACFOR
Actinopterygii	12	F
Caridea?	1	O
<i>Pagurus bernhardus</i>	2	O
<i>Pomatoschistus</i>	5	O
<i>Scomber scombrus</i>	1	F
Soleidae	1	F
Trachinidae	1	F
Substratum	% cover	
Granule 2mm to 4mm	1	
Sand 0.063mm to 2mm	99	
Biotope		
<i>Broadscale Habitat</i>	A5.2 - Subtidal Sand	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.2	
<i>MNCR code</i>	SS.SSa	
<i>Classification (Exact copy of MNCR descriptor)</i>	Sublittoral sands and muddy sands	

Table 35. Biological and physical characteristics of station BSSS120_401_S1.

Taxon	Abundance	SACFOR
<i>Agonus cataphractus</i>	1	F
Gadidae	1	F
<i>Pagurus bernhardus</i>	4	O
<i>Scomber scombrus</i>	1	F
Triglidae	1	F
<i>Trisopterus</i>	2	O
Substratum	% cover	
Granule 2mm to 4mm	2	
Sand 0.063mm to 2mm	98	
Biotope		
<i>Broadscale Habitat</i>	A5.2 - Subtidal Sand	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.2	
<i>MNCR code</i>	SS.SSa	
<i>Classification (Exact copy of MNCR descriptor)</i>	Sublittoral sands and muddy sands	

Table 36. Biological and physical characteristics of station BSSS120_401_S2.

Taxon	Abundance	SACFOR
<i>Pomatoschistus</i>	1	O
Substratum	% cover	
Granule 2mm to 4mm	20	
Sand 0.063mm to 2mm	80	
Biotope		
<i>Broadscale Habitat</i>	A5.1 - Subtidal Coarse Sediment	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.1	
<i>MNCR code</i>	SS.SCS	
<i>Classification (Exact copy of MNCR descriptor)</i>	Sublittoral coarse sediment (unstable cobbles and pebbles, gravels and coarse sands)	

Table 37. Biological and physical characteristics of station BSSS111_405_S1.

Taxon	Abundance	SACFOR
<i>Asterias rubens</i>	3	F
<i>Ensis?</i>	2	O
Hydroid/Bryozoa	P	R
Inachidae	1	O
<i>Pagurus bernhardus</i>	28	F
Triglidae	1	F
Substratum	% cover	
Granule 2mm to 4mm	15	
Sand 0.063mm to 2mm	85	
Biotope		
<i>Broadscale Habitat</i>	A5.1 - Subtidal Coarse Sediment	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.1	
<i>MNCR code</i>	SS.SCS	
<i>Classification (Exact copy of MNCR descriptor)</i>	Sublittoral coarse sediment (unstable cobbles and pebbles, gravels and coarse sands)	

Table 38. Biological and physical characteristics of station BSS098_413_S1.

Taxon	Abundance	SACFOR
Actinopterygii	7	O
Ammodytidae	9	F
<i>Asterias rubens</i>	1	F
<i>Ensis?</i>	1	O
Inachidae	1	O
<i>Pagurus bernhardus</i>	2	O
<i>Pomatoschistus</i>	1	O
<i>Sagartia troglodytes</i>	1	O
<i>Solea solea</i>	1	F
Trachinidae	2	O
Substratum	% cover	
Sand 0.063mm to 2mm	97	
Mud less than 0.063mm	3	
Biotope		
<i>Broadscale Habitat</i>	A5.2 - Subtidal Sand	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.241	
<i>MNCR code</i>	SS.SSa.IMuSa.EcorEns	
<i>Classification (Exact copy of MNCR descriptor)</i>	Echinocardium cordatum and Ensis spp. in lower shore and shallow sublittoral slightly muddy fine sand	

Table 39. Biological and physical characteristics of station BSS002_435_S1.

Taxon	Abundance	SACFOR
<i>Actinopterygii</i>	4	O
<i>Aequipecten opercularis</i>	1	O
<i>Asterias rubens</i>	3	F
<i>Callionymus</i>	2	F
Hydroid/Bryozoa	P	O
<i>Pagurus bernhardus</i>	19	F
<i>Pomatoschistus</i>	1	O
Substratum	% cover	
Pebbles 4mm to 64mm	10	
Shells_Empty	10	
Granule 2mm to 4mm	30	
Sand 0.063mm to 2mm	50	
Biotope		
<i>Broadscale Habitat</i>	A5.1 - Subtidal Coarse Sediment	
<i>Habitat FOCI</i>	Subtidal Sands and Gravels	
<i>Annex 1 Habitats</i>	Sandbanks which are slightly covered by seawater all the time	
<i>EUNIS code</i>	A5.1	
<i>MNCR code</i>	SS.SCS	
<i>Classification (Exact copy of MNCR descriptor)</i>	Sublittoral coarse sediment (unstable cobbles and pebbles, gravels and coarse sands)	

4 QA

Out of 32 stations, four were reanalysed for QA purposes: BSSS071_Stn_306; BSSSAddGT1_Stn_343; BSSS036_Stn_356, and; BSSS120_Stn_401. For each of these stations, Tim Worsfold watched the entire video, noting down any additional taxa and double checking identifications of those that had already been recorded. He then went through each of the stills from each station in the same manner. New taxa for each video and still are recorded in Tables 40-43, including the corrections where necessary (highlighted in grey) and the member of staff who confirmed the record (CA = Chris Ashelby, crustacean specialist, APEM; JT = Jessica Taylor, fish specialist, APEM).

Table 40. Quality Assurance analysis for station BSSS071_Stn_306.

Station	Original Analysis	QA Analysis	QC by
Video	Actinopterygii	Actinopterygii	TW
	<i>Agonus cataphractus</i>	<i>Agonus cataphractus</i>	TW
	<i>Pagurus bernhardus</i>	<i>Pagurus bernhardus</i>	TW
	<i>Pomatoschistus?</i>	<i>Pomatoschistus</i>	TW
	Trachinidae	Trachinidae	TW
	Disregarded	<i>Chaetopterus tube</i>	TW
	Polychaeta	Polychaeta	TW
	Ammodytidae	Ammodytidae	TW
	Missed	<i>Nassarius reticulatus</i>	TW
Stills			
_003	<i>Callionymus</i>	<i>Callionymus</i>	TW
_006	Trachinidae	Trachinidae	TW
_009	Arenicolidae	Arenicolidae	TW
_012	<i>Hydrallmania falcata</i>	<i>Hydrallmania falcata</i>	TW
_024	<i>Echinocardium cordatum</i>	<i>Echinocardium cordatum</i>	TW

Table 41. Quality Assurance analysis for station BSSSAddGT1_Stn_343

Station	Original Analysis	QA Analysis	QC by
Video	Ammodytidae	Ammodytidae	JT
	Actinopterygii	<i>Pomatoschistus</i>	JT
	Brachyura	Portunidae	CA
	<i>Asterias rubens</i>	<i>Asterias rubens</i>	TW
	<i>Pagurus bernhardus</i>	<i>Pagurus bernhardus</i>	TW
	<i>Callionymus</i>	<i>Callionymus</i>	JT
	Actinopterygii	Trachinidae	JT
Stills			
_004	<i>Corystes cassivelaunus</i>	<i>Corystes cassivelaunus</i>	TW
_006	<i>Lanice conchilega</i>	<i>Lanice conchilega</i>	TW
_008	<i>Pomatoschistus</i>	<i>Pomatoschistus</i>	JT
_010	<i>Pomatoschistus</i>	<i>Pomatoschistus</i>	JT
_011	<i>Pomatoschistus</i>	<i>Pomatoschistus</i>	JT
_012	<i>Asterias rubens</i>	<i>Asterias rubens</i>	TW
	<i>Lanice conchilega</i>	<i>Lanice conchilega</i>	TW
_013	<i>Pagurus bernhardus</i>	<i>Pagurus bernhardus</i>	TW
	Actinopterygii	<i>Pomatoschistus</i>	JT
	<i>Spirobranchus</i>	<i>Spirobranchus</i>	TW
_015	<i>Pomatoschistus</i>	<i>Pomatoschistus</i>	JT
	Trachidae	Trachinidae	JT
_018	<i>Pomatoschistus</i>	Trachinidae	JT
	Animalia?	Polychaete eggs	TW
_019	<i>Pomatoschistus</i>	Trachinidae	JT

Table 42. Quality Assurance analysis for station BSSS036_Stn_356.

Station	Original Analysis	QA Analysis	QC by
Video	Hydroid/Bryozoa	Hydroid/Bryozoa	TW
	<i>Asterias rubens</i>	<i>Asterias rubens</i>	TW
	<i>Pagurus bernhardus</i>	<i>Pagurus bernhardus</i>	TW
	<i>Ensis?</i>	<i>Ensis?</i>	TW
	<i>Callionymus</i>	<i>Agonus cataphractus</i>	TW
	<i>Ophiura</i>	<i>Ophiura</i>	TW
	Actinopterygii	Trachinidae	TW
	Triglidae	<i>Mullus sermuletus</i>	JT&TW
	Ammodytidae	Ammodytidae	TW
	Trachinidae	Trachinidae	JT
	Pleuronectiformes	<i>Pleuronectes platessa</i>	JT
Stills			
_002	<i>Ophiura</i>	<i>Ophiura</i>	TW
	Actiniaria	<i>Sagartia troglodytes</i>	TW
	<i>Asterias rubens</i>	<i>Asterias rubens</i>	TW
_004	<i>Pagurus bernhardus</i>	<i>Pagurus bernhardus</i>	TW
_009	Trachinidae?	Trachinidae	JT
_011	Actinopterygii	<i>Mullus sermuletus</i>	JT&TW
_012	Pleuronectiformes	Pleuronectidae	JT
_016	<i>Pleuronectes platessa</i>	<i>Pleuronectes platessa</i>	JT
	Trachinidae	Trachinidae	JT

Table 43. Quality Assurance analysis for station BSSS120_Stn_401.

Station	Original Analysis	QA Analysis	QC by
Video	<i>Pagurus bernhardus</i>	<i>Pagurus bernhardus</i>	TW
	Actinopterygii	Gadidae	JT
	Actinopterygii	<i>Scomber scombrus</i>	JT
	Actinopterygii	<i>Agonus cataphractus</i>	TW
	Actinopterygii	<i>Trisopterus</i>	JT
	Triglidae	Triglidae	TW
	<i>Pomatoschistus</i> /Trachinidae	<i>Pomatoschistus</i>	TW
Stills			
_003	Gastropoda	<i>Nassarius reticulatus</i>	TW
_004	<i>Pomatoschistus</i>	<i>Pomatoschistus</i>	TW
_006	<i>Pagurus bernhardus</i>	<i>Pagurus bernhardus</i>	TW
_007	<i>Trisopterus</i>	<i>Trisopterus</i>	TW
_008	Caridea	<i>Philocheras?</i>	CA
	Echinoida	<i>Sagartia troglodytes</i>	TW
_010	Triglidae	Triglidae	TW

5 REFERENCES

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