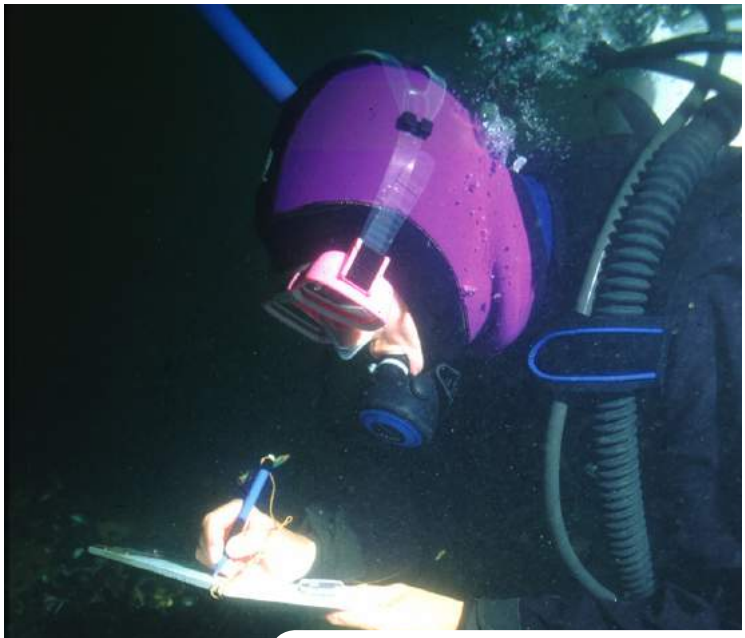
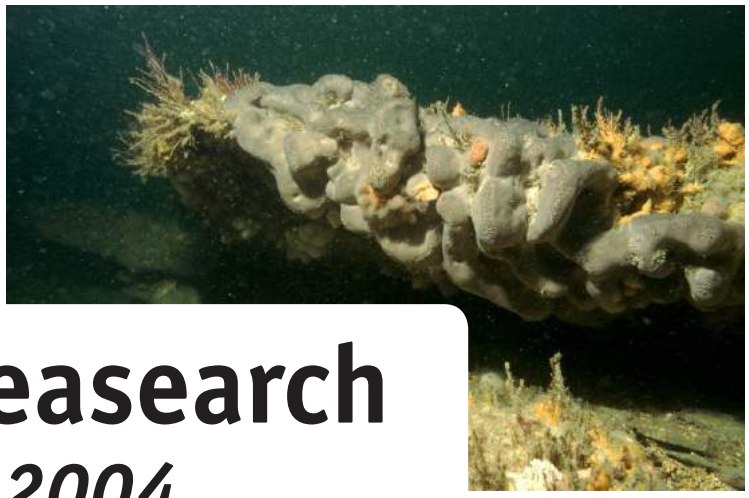


seasearch

www.seasearch.org.uk



Dorset Seasearch

1995-2004

Dorset Wildlife Trust

Dorset Seasearch volunteers - 1995-2004

Special thanks to the following Seasearch volunteers who have all contributed to our current knowledge of Dorset's marine environment over the last 10 years.

Graham Ackers
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Leisje Birchenough
Adrian Bishop
Gavin Black
Peter Bond
Nick Boswell
Miles Brown
Lisa Browning
Bronwen Bruce
Jen Bryant
Jim Burt
Carolyn Butler
Peter Byfield
Kai Chandler
Roger Coasby
Chris Coode
Ken Collins
Isobel Cook
Kevan Cook
Keith Coombs
Victoria Copley
Sarah Cox
A Davies
Peter Davies
Nicholas Davis
Susan Davis
Lexie Day
David Dooley
Deanne Drury
Geoff Drury
Chris Dunkerley
Kate Edey
Richard Edmonds
Cassian Edwards
Alan Ewart
Tim Fanshawe
Panos Fatalios
Tanya Ferry
A Finlay
Mike Flavell
Jenni Flemming
Helen Fletcher
Chris Frost
Helen Frost
Colin Froud
Sue Fuller
Gareth Gatrell
Paul Gilliland
Alan Grant
Christine Griffith
Chris Griffiths
Liana Guy
Barbara Haddrill
Sarah Handley
Malcom Hardy
Wayne Harrison
Julie Hatcher
Simon Haytor
S Hayward
Bill Hewitt
Peter Hewitt
Tim Heywood
Mike Hills
Keith Hiscock
Gary Howard
Vicki Howe
Bill Hughes
Sarah Hughes
Martin Hume
Robert Irving
Lesley James
Melanie Jennings
Mike Johnson
Lucy Kay
Emmy Kelly
Julia Kelsall
Brian Kendrick
Neil Kermode
Scott King
Paul Knapman
Sarah Lee
Michelle Leslie
Louise Lewans
Alice Lewthwaite
Jane Lilley
Pete Lilley
Annette Little
Susan Lloyd
Louise Lowans
Gordon Mackenzie
Jenny Mallinson
John Mann
Richard Mann
Mike Markey
Craig McCoy
Jo McNeil
Andrew Moss
Diana Mowbray
Gaby Mowlam
Darren Murray
Eleanor Murray
Adrian Mutlow
Kate Myers
Steve Nash
Jo New
Dave Oliver
Martin Openshaw
Sheilah Openshaw
Nick Owen
Andrew Page
Ian Park
Dan Parsons
Jon Parsons
Rosie Peters
Robin Plowman
Jo Porter
Carol Puddephatt
Chris Puddephatt
John Pyle
Harry Ram
Fiona Ravenscroft
Angela Read
Nick Reed
Tom Reid
Mary Restell
Roy Restell
Phil Reynolds
Jeremy Rowe
Jonathon Saunders
Michelle Sharp
Spencer Shute
Jo Simpson
Dominic Smith
Richard Smith
Matthew Spiers
Andy Squirrell
Deborah Squirrell
Deborah Stenner
David Stock
Ron Stock
Ronnie Stock
Elaine Stone
Tony Sullivan
Helen Sumner
Brian Tait
Danielle Tate
Tim Theobalds
Ben Thompson
Peter Tinsley
Alan Trethawan
Steve Trewhella
Barry Trickett
David Trimble
Peter Tunbridge
Peter Vojak
Nick Wade
Robert Wade
Mike Wallis
Sean Walls
Michelle Walter
Richard Walter
Mark Ward
Derek White
Fiona White
Richard White
Susan White
Amanda Williams
Rolf Williams
Ruth Williams
Chris Wood
Derek Wright
Lynda Young

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ENGLISH NATURE
JOINT NATURE CONSERVATION COMMITTEE
Heritage Lottery Fund
SCOPAC STANDING CONFERENCE ON PROBLEMS ASSOCIATED WITH THE COASTLINE

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Background

Seasearch is a volunteer diving project which aims to increase knowledge of the marine environment around the UK and contribute towards its conservation.

Objectives:

To gather information on UK seabed habitats and associated wildlife through participation of SCUBA divers

To provide standardised training to enable SCUBA divers to participate in Seasearch

To ensure the quality of data gathered

To make available the data collected through Seasearch

To raise awareness of the diversity of UK marine life and its environment through participation of SCUBA divers and dissemination of information.

Seasearch History

Seasearch was devised by Dr. Bob Earll (then Head of Conservation at the Marine Conservation Society) and Dr. Roger Mitchell (then Head of the Marine Science Branch of the Nature Conservancy Council) in the mid-1980s. Both of them realised that there was a great deal of enthusiasm and knowledge amongst the growing number of non-professional divers, which could be harnessed and put to good use. It also drew on previous volunteer recording projects which had been pioneered by the Marine Conservation Society.

The project was run during the 1990's by the Marine Conservation Society on behalf of the Joint Nature Conservation Committee, the government agency based in Peterborough as part of their Marine Nature Conservation Review. This culminated in the production of the Coastal Directories Project (Coast and Seas of the United Kingdom). Dr. Bob Foster-Smith at Newcastle University developed the project further and wrote an introductory booklet which was published by Scottish Natural Heritage.

During this time much of the recording was done on Seasearch expeditions, many of which were in the West of Scotland. There were active local projects too in Wales, Sussex and Dorset.

Since December 1999, a National Seasearch Steering Group has been developing the project on a national basis. The Steering Group is comprised of statutory conservation bodies, NGOs including MCS, diver training associations and independent experts.

In 2001 new recording forms were piloted with Seasearchers old and new and these have been refined in the light of feedback from participants. A data management protocol has also been developed so that the data collected will be available on the national and local marine life databases for use by all.

In 2002 a new training programme was piloted and that too has been refined after feedback from those who took part

Seasearch had a big boost in 2003. With new funding from The Heritage Lottery Fund and other supporters (see inside cover for a full list of supporters) there is now a National Co-ordinator and a number of local co-ordinators. There are many more training courses, dives and other events taking place than ever before.

The Official Launch of the new Seasearch Project for 2003 was on Wednesday 4th June in London and all Seasearch courses and dives have continued all over England, Wales and Scotland ever since.

Seasearch in Dorset

Interest in the sublittoral marine environment of Dorset began in the mid '70s with the first Dorset Underwater Survey. This was undertaken by a team of professional marine biologists who carried out a series of transect dives. Further information came from a series of baseline surveys carried out in the late '80s and early '90s by several oil companies prior to drilling exploratory wells in nearshore waters.

This still left huge gaps in knowledge of even basic marine habitats and communities – the difficulties of surveying/recording underwater cannot be overestimated.

The first Seasearch dives in Dorset took place in 1995 as part of a joint project between Dorset Wildlife Trust's Purbeck Marine Wildlife Reserve at Kimmeridge, Durlston Marine Project at Swanage and English Nature's Dorset Team. The Dorset Seasearch project has generally run on little outside funding – the divers cover most of the cost of the diving (some hardboat trips have been subsidised) and most of the training and organisation has been done "in-house". Robert Irving was invited over from the Sussex Seasearch project to get things going and run the first training session in Dorset in 1995.

Because of the interests of two of the main instigators of Seasearch in Dorset, there has been a strong weighting towards Purbeck, the gathering of records for the Durlston Marine Project and the Purbeck Marine Wildlife Reserve taking priority. English Nature and Dorset Wildlife Trust also organised a week long "expedition" to Portland in 1998.

Few Seasearch records in Dorset have come in unsolicited – most are from organised Seasearch dives, usually arranged for weekends. As well as dives organised by Dorset Wildlife Trust, Lin Baldock has organised several dives in Dorset through the Marine Conservation Society "Member's Dives" scheme and Ken Collins and Jenny Mallison from the National Oceanographic Centre have undertaken many dives with students and other volunteers, producing Seasearch information in the process.

In total 470 Seasearch dives took place between 1995 and 2004. 1998 was the most successful year to date with 80 records submitted - over 40 of these came from a week of organised diving around Portland. After 1999 the number of dives fell off sharply - the main reason being other commitments for the few organisers. In 2003 a number of Seasearch divers in Dorset were involved in a seafan monitoring project, which reduced the number of

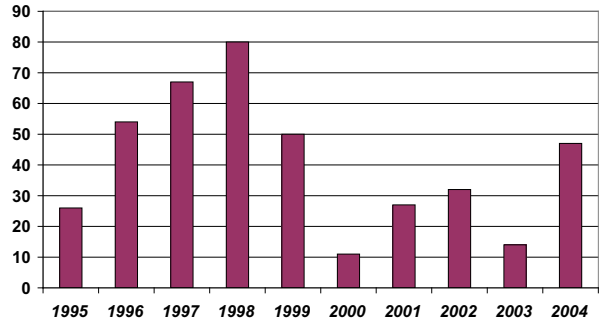


Fig. 1 Number of Seasearch forms submitted each year

organised Seasearch dives. 2003 also saw the relaunch of Seasearch as a national project - interest in Seasearch has risen sharply since then.

186 people were involved in Dorset Seasearch up to 2004. As can be seen from Fig. 2, over half of these were involved in only one or two Seasearch dives. 20 people were keen enough to take part in more than 10 dives each - accounting for 500 "person-dives" between them, nearly 60% of all those undertaken.

Seasearch has undergone a series of changes during the period of this report. In 1995 there were a small number of Seasearch projects in the UK, each with its own training programme and its own version of the recording form. Dorset Seasearch took its lead initially from the well-established Sussex Seasearch project, but developed a simpler version of the recording form and

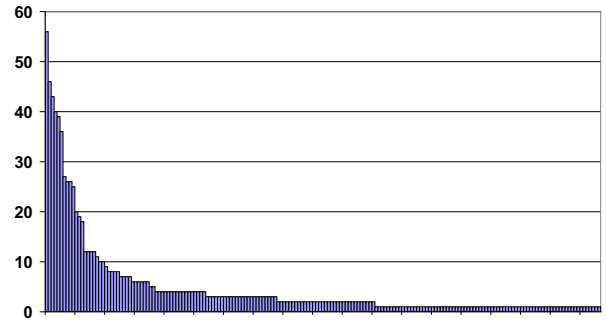


Fig. 2 Number of Seasearch diver per individual

therefore a slightly different training programme. Dorset joined in the National Steering Group pilot in 2001 and has since followed the national guidelines for training/recording. Examples of the various forms used are given in Appendix i.

The project has attracted participants with a wide range of experience, hence individual survey forms vary widely in quality. Some have elaborate sketches, some have long and detailed species lists, some are quite sparse, but all are providing information that is not otherwise available.

Seasearch records were initially entered onto the Dorset Marine Database, developed by exeGesIS and were transferred to Marine Recorder in 2003. All Dorset records are held at the Dorset Environmental Records Centre (DERC) and are passed on to the National Biodiversity Network, from where they are available to anyone. Records can be searched by species at http://www.searchnbn.net

An interactive map showing the location of Seasearch dives is available on the Dorset Wildlife Trust website (www.dorsetwildlife.co.uk/marine/seasearch).

There are some issues of data quality when using volunteers, rather than professional biologists, to gather data. Several steps have been taken to minimise this. All Seasearch divers are given basic training which not only provides an introduction to marine life identification, but warns against the dangers of "guessing". Most Seasearch dives in Dorset are organised by a local co-ordinator, so there are usually a couple of "experts" on hand to help with identification. The local co-ordinator(s) get to know the regular volunteers well enough to know their capabilities and all data are verified at the point of entry onto Marine Recorder.

The commitment and enthusiasm of Seasearch divers has greatly increased our understanding of Dorset's marine environment. Since the project began divers have made several exciting discoveries, some of which may eventually lead to some sort of protection.

This report is an attempt to pull together a large amount of data of varying quality and differing degrees of cover. Some areas are relatively well surveyed, but even in these areas, we can be surprised. There have been several "discoveries" in and around the wreck of the *Black Hawk*, on of the most popular dive sites in Dorset - perhaps the most surprising was the discovery of another small wreck nearby. Other areas are represented by only one or two dives, allowing only some basic generalisations to be drawn. For the purpose of this report, records have been clustered together on the basis of local similarity. For each cluster, there is a short description of the physical habitat and the marine life associated with it. To give a flavour of the habitat, a table of the most frequently recorded species and those with the highest abundance scores is given. These are less useful where the number of record forms is low. Also shown is a list of "important" species - this is a filtered list based on several sources, including rare species, Biodiversity Action Plan species, species that have been identified as possible climate change indicators and introduced species. Each section is illustrated with sketches from Seasearch forms and photographs, where these are available.

Targets for future Seasearch in Dorset

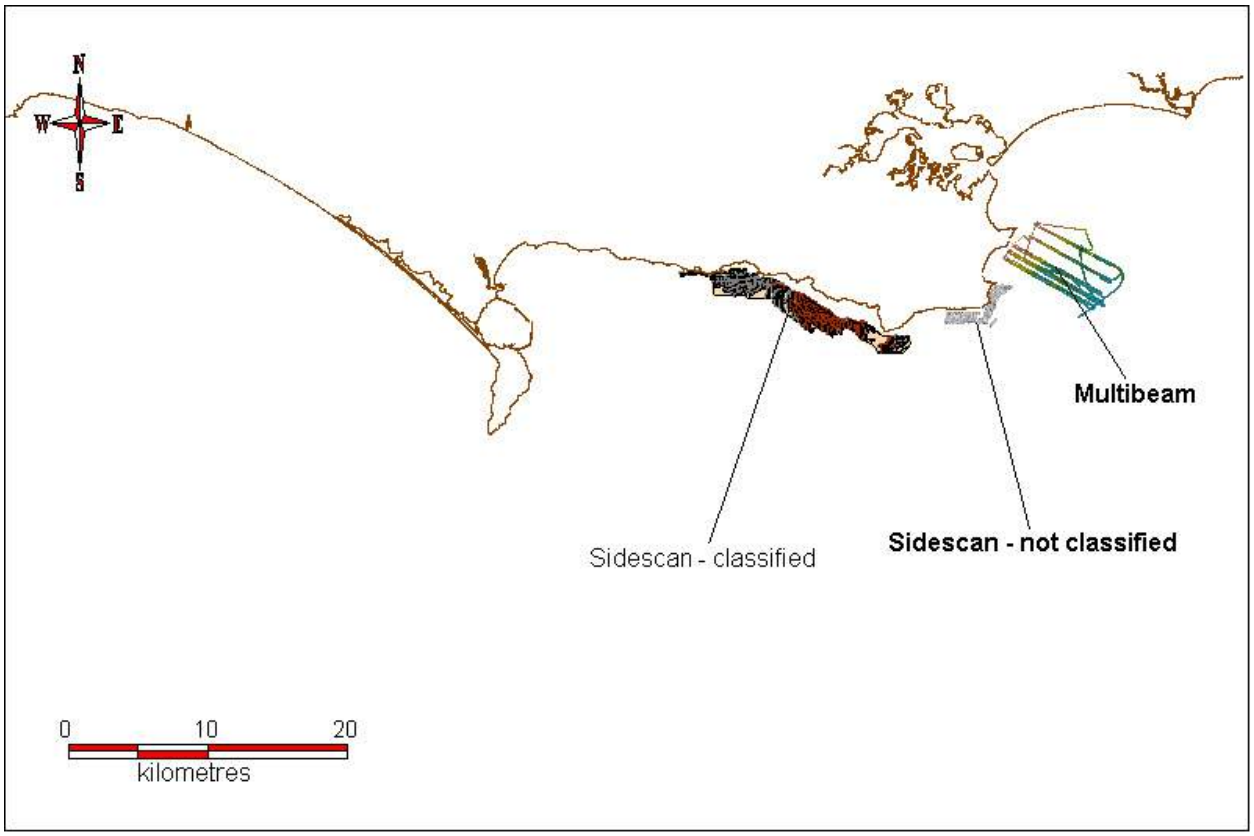
This report is a statement of what we know now, based almost a decade of recording by volunteers. One intention of publishing is to stimulate and facilitate further recording and reporting.

Anyone planning a Seasearch dive, whether they are a regional co-ordinator, a club dive officer or just an individual, is encouraged to use this report to help identify potential dive sites. This could be areas where there has been little previous effort (Lyme Bay, for instance) or sites that warrant further exploration.

In recent years, much use has been made of remote sensing data - sidescan and multibeam echo-sounder data - for selecting possible dive sites. Both of these make it possible to pick out seabed features such as reefs, sandwaves, even wrecks, which can then be investigated

with the aid of GPS navigation. From 2002, organised Seasearch dives in the Purbeck Marine Wildlife Reserve and from Swanage have largely targeted features identified from sidescan or multibeam data, leading to the discovery of some interesting dive sites. In an effort to make greater use of such data, the Purbeck Marine Wildlife Reserve sidescan data has been made publicly available via a webGIS system on the Dorset Wildlife Trust website. This allows divers to browse through the sidescan data, and identify likely features. The co-ordinates can then be extracted so that the site can be investigated. If this proves useful and generates further Seasearch forms, more data will be made available.

Any dive can be a Seasearch dive - as long as you know where you were diving and you took some notes during the dive. Check on the Dorset Wildlife Trust website for information on any priority areas but, most of all, keep Seasearching.

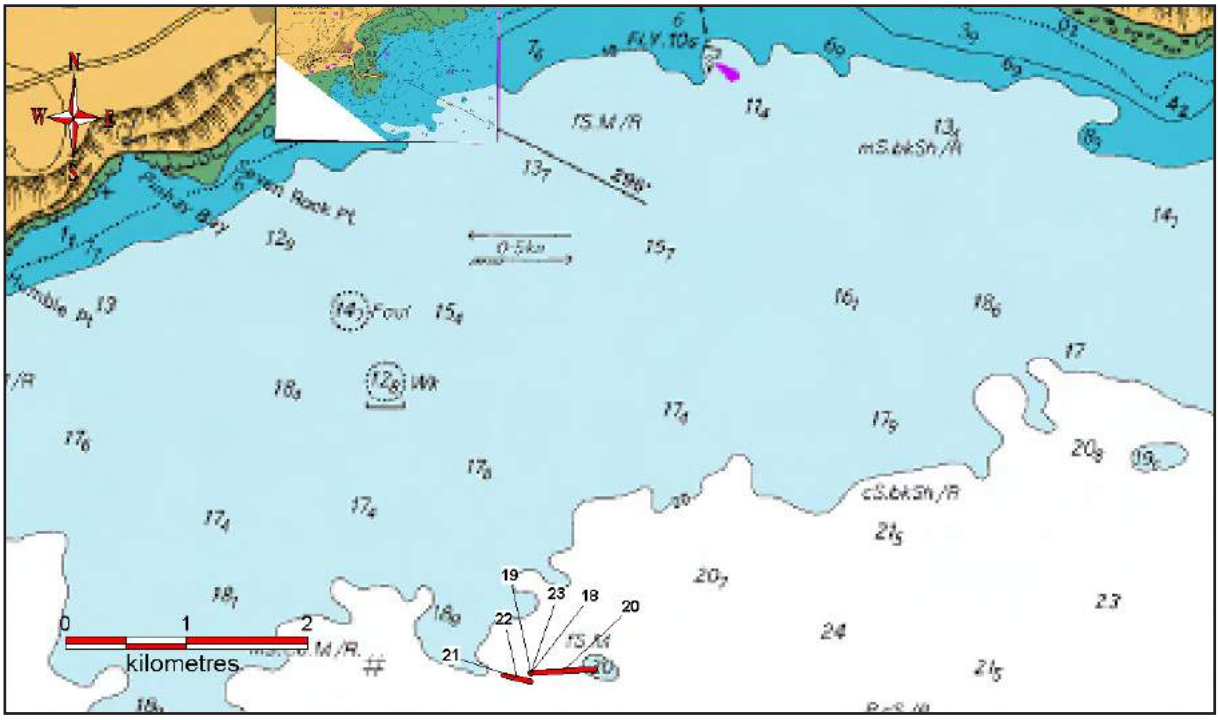


Remote sensing data available to Dorset Seasearch

Lanes Ground

Number of Seasearch dives 6

Number of species/groups recorded 94



Physical environment:

Depth range: 21-26m

Flat seabed with scattered boulders, cobbles and pebbles, areas of flat bedrock, sometimes overlain by sand/gravel.

Habitat/Community types:

Bedrock and boulders dominated by an animal turf with large ross coral colonies, sponges (including branching sponges, *Axinella dissimilis, Raspailia hispida* and *Raspailia ramosa* and the boring sponge, *Cliona celata*), hydroids (*Hydrallmania falcata, Halecium halecinum, Aglaophenia tubulifera, Nemertesia antennina)* and sea-squirts. Pink seafans were recorded at all sites, including an area of flat sand, presumably overlying bedrock, through which small seafans were growing. Fish included goldsinny, cuckoo and ballan wrasse, but these were not reported in large numbers.

Observations/Features of Interest:

Many long-lived and delicate species recorded - no reports of any visible damage due to fishing.

Recorded biotopes

Sublittoral sediment

Circalittoral coarse sediment

Circalittoral rock (and other hard substrata)

Mixed faunal turf communities

Bryozoan turf and erect sponges on tide-swept circalittoral rock

Boulders with hydroids, seafan, branching sponges.
Large ross coral.
Soft, muddy sediment between

Most frequently recorded species

Number of Seasearch dives	6
Number of species/groups recorded	94

Species	Common name	No. of records	Abundance range
Eunicella verrucosa	Pink sea fan	6	R to C
Pentapora foliacea	Ross coral/potato crisp bryozoan	6	O to A
Asterias rubens	Common/ shore starfish	5	R to A
Cliona celata	Sulphur sponge / yellow boring sponge	5	R to A
Hydrallmania falcata	Spiralled sea fir / helter-skelter hydroid	4	O to C
Hemimycale columella	Pink/orange crater sponge	4	R to F
Phallusia mammillata	Michelin man seasquirt	4	R to C
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	3	R to O
Dysidea fragilis	Goose bump/hedgehog sponge	3	R to F
Esperiopsis fucorum	Shredded carrot sponge	3	O
Haliclona oculata	Mermaid's Glove sponge	3	F to C
Raspailia hispida	Tall branching sponge	3	O to F
Raspailia ramosa	Chocolate finger/hairy antler sponge	3	O to F
Halecium halecinum	Herringbone hydroid	3	O to C
Lanice conchilega	Sandmason worm	3	R to F
Axinella dissimilis	Yellow staghorn sponge	3	R to C
Aplidium punctum	Single spotted colonial seasquirt	3	F to C
Pecten maximus	Great scallop	3	R to F
Majidae	Spider Crab family	3	R

Seafan growing through sediment. Photo Mike Markey

Haliclona oculata and large ross coral Photo Mike Markey

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Cliona celata	Sulphur sponge / yellow boring sponge	R to A	F	5
Bugula plumosa	Tapered bottle brush bryozoan	A	A	1
Pentapora foliacea	Ross coral/potato crisp bryozoan	O to A	F	6
Asterias rubens	Common/ shore starfish	R to A	F	5
Gobiusculus flavescens	Two-spotted goby	A	A	1
Max abundance = C				
Axinella dissimilis	Yellow staghorn sponge	R to C	O	3
Haliclona oculata	Mermaid's Glove sponge	F to C	F	3
Porifera indet crusts	Sponge crusts	C	C	1
Halecium halecinum	Herringbone hydroid	O to C	F	3
Hydrallmania falcata	Spiralled sea fir / helter-skelter hydroid	O to C	F	4
Aglaophenia tubulifera	A hydroid	O to C	F	2
Eunicella verrucosa	Pink sea fan	R to C	O	6
Sagartia elegans	Variegated/fried egg anemone	C	C	1
Pomatoceros	Keel Worm	C	C	1
Salmacina dysteri	Spaghetti/coral worm	C	C	1
Pectinidae	Scallop family	C	C	1
Alcyonidium diaphanum	Jelly baby/finger bryozoan / sea chervil/ Dogger Bank itch	R to C	O	2
Bugula flabellata	Bugle bryozoan	C	C	1
Aplidium punctum	Single spotted colonial seasquirt	F to C	F	3
Ciona intestinalis	Yellow rimmed seasquirt	O to C	F	2
Ascidia mentula	Red seasquirt	C	C	1
Phallusia mammillata	Michelin man seasquirt	R to C	O	4
Botryllus schlosseri	Star seasquirt	R to C	O	2

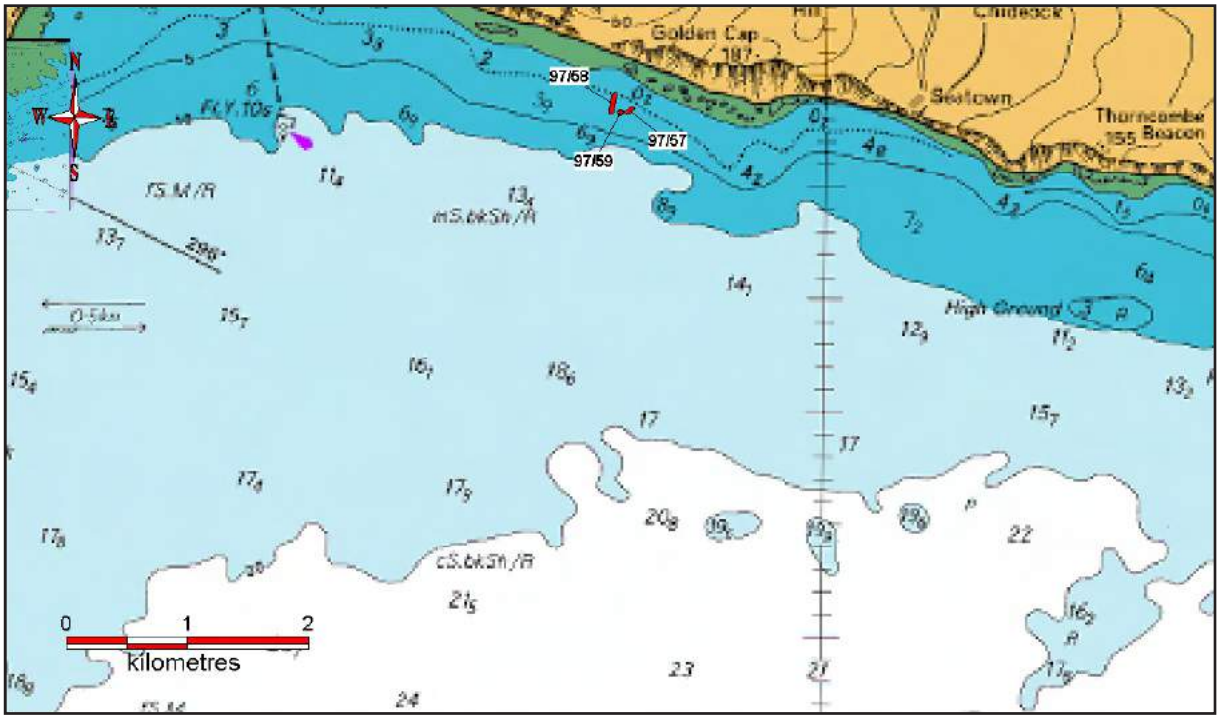
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	A to O	F	Climate
Chordata				
Ctenolabrus rupestris	Goldsinny	O	O	Climate
Cnidaria (Corals, anemones, hydroids)				
Eunicella verrucosa	Pink sea fan	C to R	O	SOCC W&CA NS BAP Climate
Crustacea				
Maja squinado	Spiny spider crab	R	R	Climate
Mollusca				
Tritonia nilsodhneri	Seafan sea slug	R	R	SOCC NS
Tunicata (sea squirts)				
Styela clava	Stalked seasquirt / leathery seasquirt	O	O	Introduced
Phallusia mammillata	Michelin man seasquirt	C to R	O	SOCC NS

Golden Cap

Number of Seasearch dives 3

Number of species/groups recorded 30



Physical environment:

Depth range: 3-6m

Large or very large boulders lying on a heavily bored shale platform in shallow water. Thin cover of silt/ sediment over the rock. This is a generally turbid area due to erosion of the soft cliffs on the shoreline.

Habitat/Community types:

Despite the shallow water, the large boulders are covered with red/brown algae, rather than kelp. These included sand-tolerant species such as *Furcellaria* along with *Calliblepharis ciliata, Heterosiphonia plumosa* and *Halidrys siliquosa*. Some of the boulder sides were deeply undercut with a hydroid/sponge turf.

The shale platform was heavily bored by piddocks, probably *Pholas dactylus*, with many siphons visible. There was a sparse algal cover (including *Halidrys siliquosa, Calliblepharis ciliata, Halurus equisetifolius* and *Heterosiphonia plumosa*) with occasional patches of dense *Laminaria saccharina* and small patches of encrusting coralline algae. Fish life included goldsinny and painted goby.

Observations/Features of Interest:

The unusual brown alga, *Zanardinia prototypus*, was recorded here.

Recorded biotopes

Infralittoral rock (and other hard substrata)

Kelp and red seaweeds (moderate energy infralittoral rock)

Sediment-affected or disturbed kelp and seaweed communities

Halidrys siliquosa and mixed kelps on tide-swept infralittoral rock with coarse sediment

Circalittoral rock (and other hard substrata)

Soft rock communities

Piddocks with a sparse associated fauna in sublittoral very soft chalk or clay

Most frequently recorded species

Number of Seasearch dives 3

Number of species/groups recorded 30

Species	Common name	No. of records	Abundance range
Pholadidae	Piddocks	3	A
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	2	R to O
Rhodophycota	Red seaweeds	2	P to A
Hydrozoa	Hydroids/ sea firs	2	C
Phaeophyceae	Brown seaweeds	2	P to A
Laminaria saccharina	Sugar kelp / sea belt	2	F to A
Halidrys siliquosa	Pod weed / sea oak	2	P to F

Species sorted by maximum recorded abundance

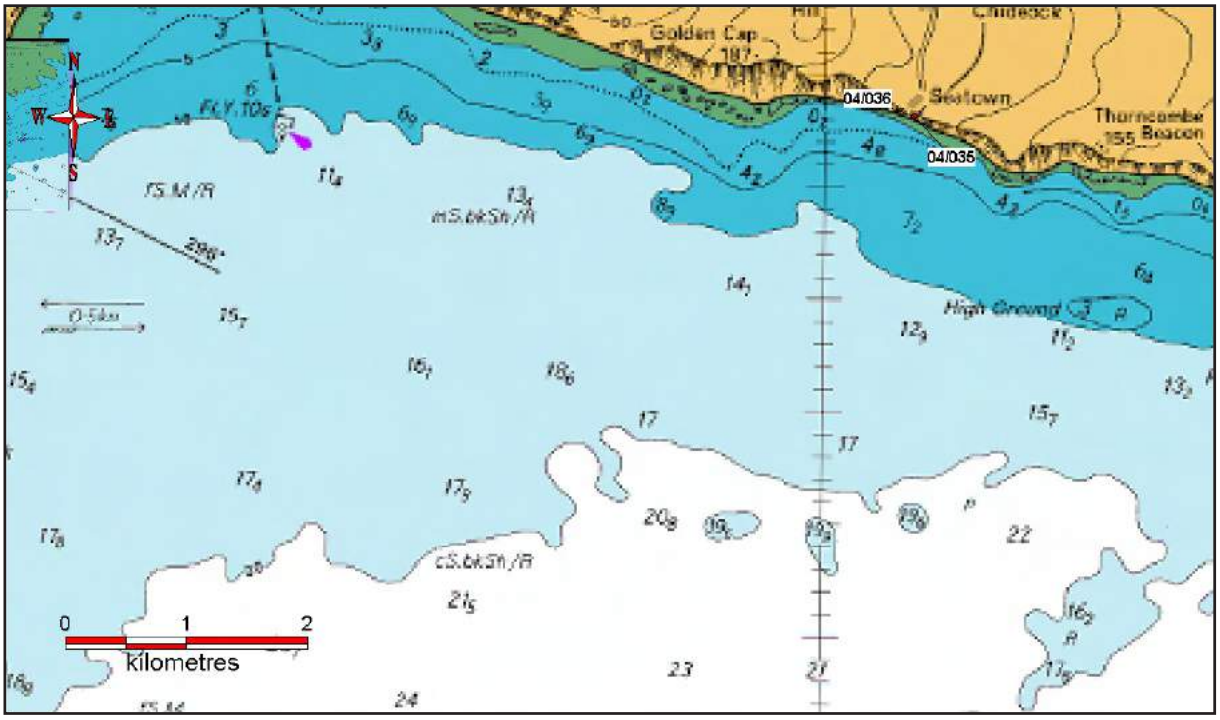
Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Pholadidae	Piddocks	A	A	3
Rhodophycota	Red seaweeds	P to A	O	2
Heterosiphonia plumosa	A red seaweed	O to A	F	1
Phaeophyceae	Brown seaweeds	P to A	O	2
Laminaria saccharina	Sugar kelp / sea belt	F to A	C	2
Max abundance = C				
Hydrozoa		C	C	2
Bryozoa	Sea mats / moss animals	C	C	1
Calliblepharis ciliata	Red fringe weed	O to C	F	1
Max abundance = F				
Aglaophenia	A hydroid	O to F	O	1
Polyides rotundus	Disc holdfast red worm weed	F	F	1
Halidrys siliquosa	Pod weed / sea oak	P to F	R	2
Max abundance = O				
Aiptasia mutabilis	Trumpet anemone	O	O	1
Cancer pagurus	Edible crab / brown crab /great crab	O	O	1
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	R to O	R	2
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	O	O	1
Hinia	A dogwhelk	O	O	1
Ctenolabrus rupestris	Goldsinny	O	O	1
Pomatoschistus pictus	Painted Goby	O	O	1
Corallina officinalis	Coral weed / bone weed	O	O	1
Furcellaria	A red seaweed	O	O	1
Halurus equisetifolius	Red mare's tail weed/sea mare's tail/sea horsetail	O	O	1
Zanardinia prototypus	Penny weed	O	O	1

Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Algae/Plants				
Zanardinia prototypus	Penny weed	0	0	SOCC NS Climate
Chordata				
Ctenolabrus rupestris	Goldsinny	0	0	Climate
Cnidaria (Corals, anemones, hydroids)				
Aiptasia mutabilis	Trumpet anemone	0	0	SOCC NS

Seatown

Number of Seasearch dives	2
Number of species/groups recorded	13



Physical environment:

Depth range: 2-4m

Boulders and cobbles in shallow water near the beach, surrounded by sand/gravel seabed.

Habitat/Community types:

Little life reported from the boulders - encrusting coralline algae and *Corallina* growing on the rock surface. Small edible crabs and juvenile goldsinny wrasse were recorded, along with hermit crabs in netted dogwhelk shells.

Observations/Features of Interest:

Fishing tackle noted among the boulders.

Recorded biotopes

Sublittoral sediment

Infralittoral rock (and other hard substrata)

Most frequently recorded species

Number of Seasearch dives 2

Number of species/groups recorded 13

Species	Common name	No. of records	Abundance range
Paguridae	Hermit crab family	2	C
Corallina officinalis	Coral weed / bone weed	2	O to C
Cancer pagurus	Edible crab / brown crab /great crab	2	R to O
Syngnathus acus	Greater pipefish	1	R
Sepia officinalis	Common cuttlefish	1	O
Polinices	A necklace shell	1	O
Maja squinado	Spiny spider crab	1	R
Limacia clavigera	Orange clubbed sea slug	1	O
Hinia reticulata	Netted dogwhelk	1	C
Ctenolabrus rupestris	Goldsinny	1	R
Crenilabrus melops	Corkwing	1	R
Corallinaceae	Pink corraline algae	1	C

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = C				
Paguridae	Hermit crab family	C	C	2
Hinia reticulata	Netted dogwhelk	C	C	1
Corallinaceae	Pink corraline algae	C	C	1
Corallina officinalis	Coral weed / bone weed	O to C	F	2
Max abundance = O				
Cancer pagurus	Edible crab / brown crab /great crab	R to O	R	2
Polinices	A necklace shell	O	O	1
Limacia clavigera	Orange clubbed sea slug	O	O	1
Sepia officinalis	Common cuttlefish	O	O	1
Max abundance = R				
Maja squinado	Spiny spider crab	R	R	1
Syngnathus acus	Greater pipefish	R	R	1
Crenilabrus melops	Corkwing	R	R	1
Ctenolabrus rupestris	Goldsinny	R	R	1

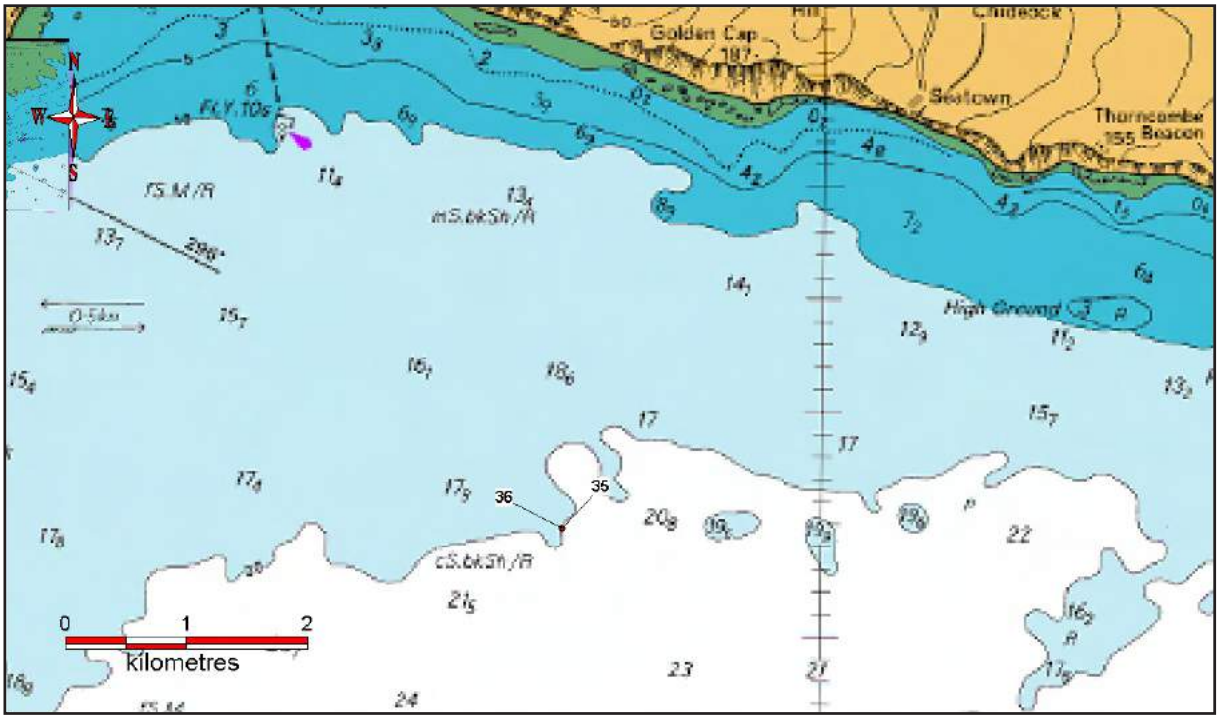
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Chordata				
Ctenolabrus rupestris	Goldsinny	R	R	Climate
Crustacea				
Maja squinado	Spiny spider crab	R	R	Climate

Mushrooms

Number of Seasearch dives 2

Number of species/groups recorded 43



Physical environment:

Depth range: 20-22mm

Low outcrops of rock where the underlying softer strata have been worn away forming overhangs (in places deep enough to fit a head into) at the edge of the outcrops. Some of these outcrops are circular/oval in shape which gives the overall "mushroom" appearance after which the site is named. A mixture of pebbles, cobbles, gravel and small boulders between these outcrops.

Habitat/Community types:

Upward facing surface of the rocky outcrops were home to pink seafans, ross corals, the large sea-squirt, *Phallusia mammilata*, and a variety of sponges including Stelligera and the boring sponge, *Cliona celata*. Some hosted very large numbers of the trumpet anemone, *Aiptasia mutabilis*. The overhangs contained cup corals and encrusting sponges and sheltered crabs, lobsters and squat lobsters.

Fish life included pouting and poor cod, goldsinny and cuckoo wrasse and the leopard-spotted goby, *Thorogobius ephippiatus*.

Observations/Features of Interest:

The rare stony corals, *Caryophyllia inornata* and *Hoplangia durotrix* have been identified from this site but the *Hoplangia* record has yet to be verified.

Recorded biotopes

Sublittoral sediment

Circalittoral mixed sediment

Circalittoral rock (and other hard substrata)

Mixed faunal turf communities

Bryozoan turf and erect sponges on tide-swept circalittoral rock

Circalittoral caves and overhangs

Trumpet anemone, Aiptasia mutabilis Photo Mike Markey

Most frequently recorded species

Number of Seasearch dives 2

Number of species/groups recorded 43

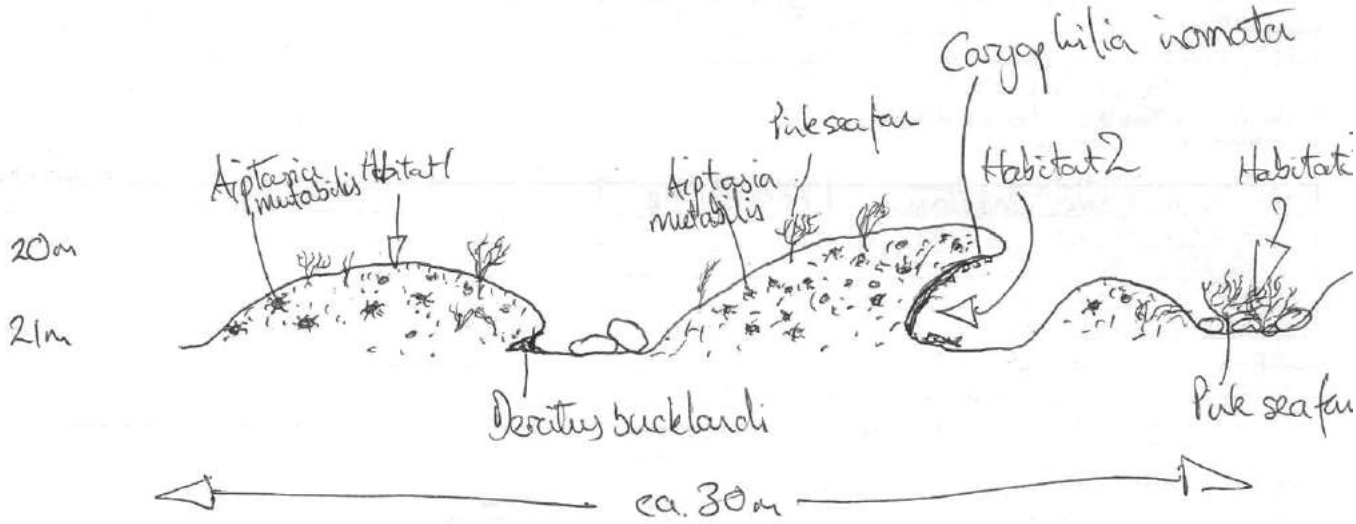
Species	Common name	No. of records	Abundance range
Dercitus bucklandi	Black tar sponge	2	F to C
Eunicella verrucosa	Pink sea fan	2	P to F
Labrus mixtus	Cuckoo wrasse	2	C to A
Pachymatisma johnstonia	Elephant's ear sponge	2	R to F
Phallusia mammillata	Michelin man seasquirt	2	P to O
Cliona celata	Sulphur sponge / yellow boring sponge	2	F
Pentapora foliacea	Ross coral/potato crisp bryozoan	2	C

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Porifera indet crusts	Sponge crusts	A	A	1
Hydrozoa	Hydroids/ Sea firs	A	A	1
Aiptasia mutabilis	Trumpet anemone	A	A	1
Labrus mixtus	Cuckoo wrasse	C to A	C	2
Max abundance = C				
Dercitus bucklandi	Black tar sponge	F to C	F	2
Hemimycale columella	Pink/orange crater sponge	C	C	1
Raspailia ramosa	Chocolate finger/hairy antler sponge	C	C	1
Hydrallmania falcata	Spiralled sea fir / helter-skelter hydroid	C	C	1
Nemertesia ramosa	Branched antenna hydroid	C	C	1
Bryozoa	Sea mats / moss animals	C	C	1
Bugula	A bryozoan	C	C	1
Pentapora foliacea	Ross coral/potato crisp bryozoan	C	C	2
Max abundance = F				
Pachymatisma johnstonia	Elephant's ear sponge	R to F	O	2
Cliona celata	Sulphur sponge / yellow boring sponge	F	F	2
Axinella dissimilis	Yellow staghorn sponge	F	F	1
Haliclona oculata	Mermaid's glove sponge	F	F	1
Haliclona simulans	Bridge sponge	F	F	1
Eunicella verrucosa	Pink sea fan	P to F	R	2
Bispira volutacornis	Double crowned fan worm	F	F	1
Protula tubularia	Calcareous tubeworm	F	F	1
Cellariidae	A bryozoan	F	F	1
Cellepora pumicosa	Orange pumice bryozoan	F	F	1
Trisopterus minutus	Poor cod	F	F	1
Ctenolabrus rupestris	Goldsinny	F	F	1
Thorogobius ephippiatus	Leopard-spotted goby	F	F	1

Species of interest

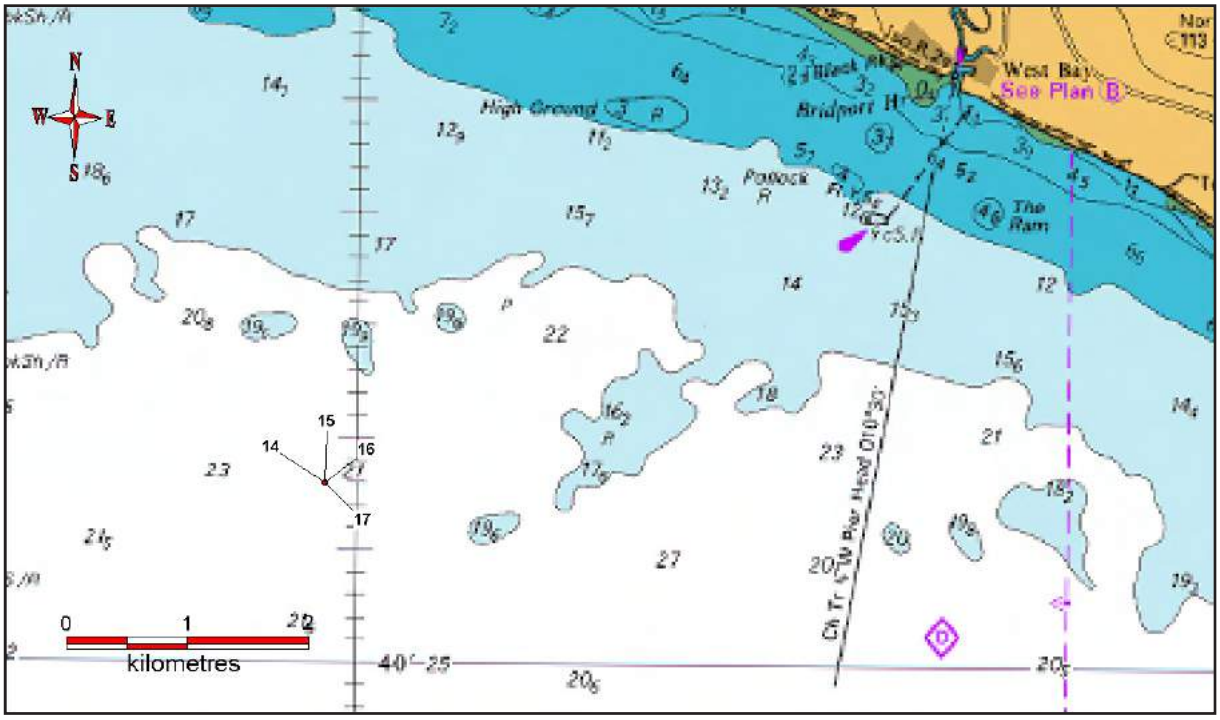
Species	Common name	Abundance range	Average abundance	Importance
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	C	C	Climate
Chordata				
Ctenolabrus rupestris	Goldsinny	F	F	Climate
Cnidaria (Corals, anemones, hydroids)				
Eunicella verrucosa	Pink sea fan	F to P	R	SOCC W&CA NS BAP Climate
Aiptasia mutabilis	Trumpet anemone	A	A	SOCC NS
Mollusca				
Tritonia nilsodhneri	Seafan sea slug	O	O	SOCC NS
Tunicata (sea squirts)				
Phallusia mammillata	Michelin man seasquirt	O to P	R	SOCC NS



Dogs Leg Ledge

Number of Seasearch dives 4

Number of species/groups recorded 56



Physical environment:

Depth range: 21-25m

Flat sandstone bedrock with rocky ledges and large boulders. Rock surfaces silty and heavily pitted with patches of silt and shell gravel between boulders.

Habitat/Community types:

Large numbers of healthy seafans, *Eunicella verrucosa*, recorded, with a range of sizes noted. A sponge-rich turf, including *Esperiopsis fucorum, Hemimycale columella, Dysidea fragilis* and *Axinella dissimilis with Nemertesia antennina* and *N. ramosa, Pentapora foliacea* and bryozoans covered the bedrock and boulders. An area with narrow fissures was covered with polychaete tubes and dense colonies of *Epizoanthus couchii*. Fish life included goldsinny, cuckoo wrasse, ballan wrasse and rock cook, pouting and poor-cod, leopard-spotted goby and conger.

Observations/Features of Interest:

Notable for the large number of pink seafans (described as dense). Dive 17 reported evidence of damage from dredging, with rock slabs broken from the ridge and fallen seafans on the seabed.

Recorded biotopes

Circalittoral rock (and other hard substrata)

Mixed faunal turf communities

Sponges and anemones on vertical circalittoral bedrock

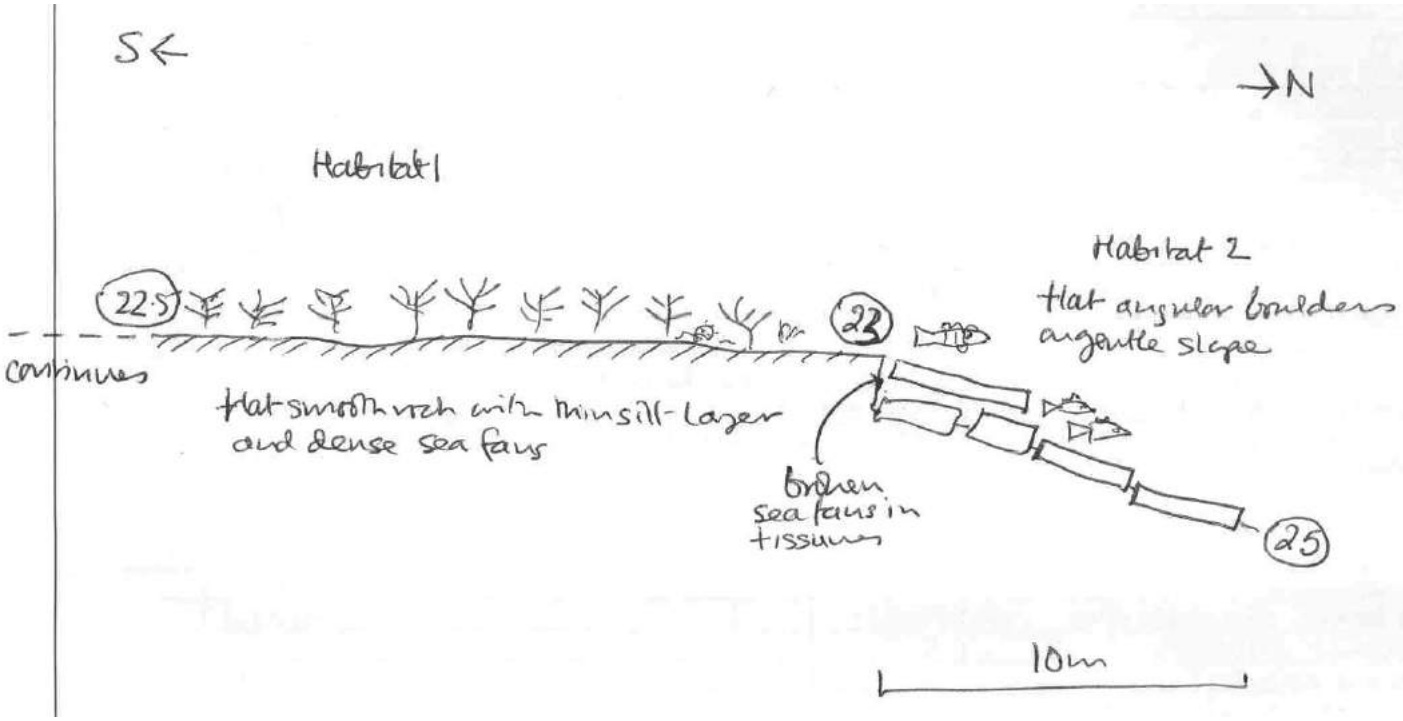
Bryozoan turf and erect sponges on tide-swept circalittoral rock

Eunicella verrucosa and *Pentapora foliacea* on wave-exposed circalittoral rock

Most frequently recorded species

Number of Seasearch dives	4
Number of species/groups recorded	56

Species	Common name	No. of records	Abundance range
Labrus mixtus	Cuckoo wrasse	4	P to F
Trisopterus luscus	Bib/ pouting	4	O to F
Ctenolabrus rupestris	Goldsinny	4	P to C
Eunicella verrucosa	Pink sea fan	4	C to A
Phallusia mammillata	Michelin man seasquirt	3	R to O
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	3	O
Dysidea fragilis	Goose bump/hedgehog sponge	3	O to C
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	3	O to F
Cliona celata	Sulphur sponge / yellow boring sponge	3	O
Esperiopsis fucorum	Shredded carrot sponge	3	F to C
Pentapora foliacea	Ross coral/potato crisp bryozoan	3	F
Chaetopterus variopedatus	Parchment-tube paddle worm	2	F
Caryophyllia smithii	Devonshire cup coral	2	R to O
Polymastia mamillaris	Chimney sponge	2	R to O
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	2	F to C
Conger conger	Conger eel	2	R
Alcyonium digitatum	Dead man's fingers soft coral	2	R to O
Trisopterus minutus	Poor cod	2	O to F
Pollachius pollachius	Pollack	2	R to O



Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = S				
Epizoanthus couchii	Brown star anemone	S	S	1
Crisia	White claw sea moss/ Crispy threads bryozoan	S	S	1
Max abundance = A				
Eunicella verrucosa	Pink sea fan	C to A	C	4
Max abundance = C				
Esperiopsis fucorum	Shredded carrot sponge	F to C	F	3
Dysidea fragilis	Goose bump/hedgehog sponge	O to C	F	3
Porifera indet crusts	Sponge crusts	C	C	1
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	F to C	F	2
Nemertesia ramosa	Branched antenna hydroid	C	C	1
Ctenolabrus rupestris	Goldsinny	P to C	O	4
Max abundance = F				
Hemimycale columella	Pink/orange crater sponge	F	F	1
Antennella secundaria	A hydroid	F	F	1
Chaetopterus variopedatus	Parchment-tube paddle worm	F	F	2
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	O to F	O	3
Tritonia nilsodhneri	Seafan sea slug	F	F	1
Pentapora foliacea	Ross coral/potato crisp bryozoan	F	F	3
Cellepora pumicosa	Orange pumice bryozoan	F	F	1
Trisopterus luscus	Bib/ pouting	O to F	O	4
Trisopterus minutus	Poor cod	O to F	O	2
Centrolabrus exoletus	Rock cook	F	F	1
Labrus mixtus	Cuckoo wrasse	P to F	R	4
Drachiella heterocarpa	A red seaweed	F	F	1

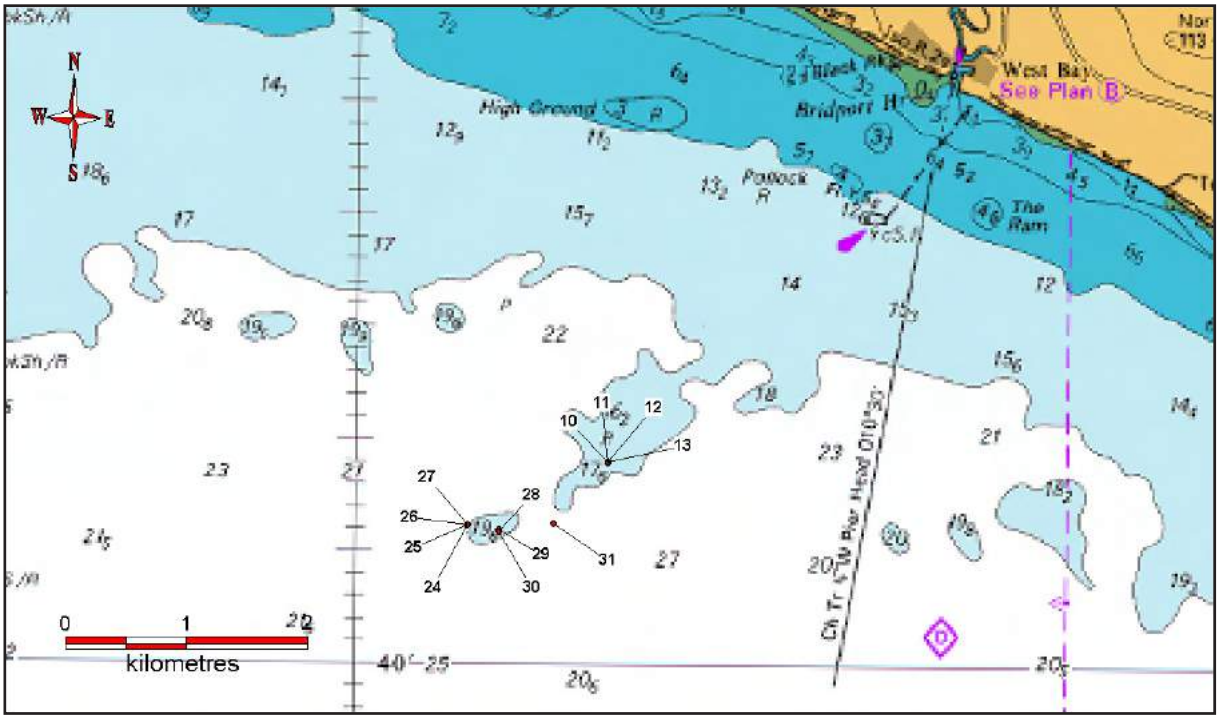
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	F	F	Climate
Chordata				
Ctenolabrus rupestris	Goldsinny	C to P	O	Climate
Centrolabrus exoletus	Rock cook	F	F	Climate
Cnidaria (Corals, anemones, hydroids)				
Eunicella verrucosa	Pink sea fan	A to C	C	SOCC W&CA NS BAP Climate
Crustacea				
Maja squinado	Spiny spider crab	R	R	Climate
Mollusca				
Tritonia nilsodhneri	Seafan sea slug	F	F	SOCC NS
Tunicata (sea squirts)				
Phallusia mammillata	Michelin man seasquirt	O to R	R	SOCC NS

Sawtooth Ledges

Number of Seasearch dives 12

Number of species/groups recorded 137



Physical environment:

Depth range: 18-24m

Sloping rock strata give rise to a series of parallel ridges with a sloping top and steep/vertical or overhanging edges. The gently sloping upper surfaces are covered with sediment and silt and scattered with small, flattened boulders. There are many crevices and overhangs on the vertical "walls".

Habitat/Community types:

The more gently sloping surfaces are covered with a dense turf of bryozoans, hydroids and sponges with large axinellid sponges, many pink seafans and large ross coral colonies. Seafans were recorded on all dives and dive 10 recorded a particularly large number of young seafan, from 4cm tall. The seafan nudibranch, *Tritonia nilsodhneri*, was noted on many of the fans. Deadmens fingers, *Alcyonium digitatum*, trumpet anemones, *Aiptasia mutabilis*, and the antenna hydroid, *Nemertesia antennina* were recorded on most dives.

The vertical or overhanging "walls" were home to a large number of the sunset cup-coral, *Leptopsammia pruvoti*, with several *Caryophllia inornata* also recorded. Sponges here included *Pachymatisma johnstonia, Thymosia guernei, Dercitus bucklandi* and *Cliona celata*.

Fish recorded here include pollack, pouting, cuckoo wrasse and goldsinny with leopard-spotted gobies in their characteristic positions at the entrance to the many crevices.

Observations/Features of Interest:

These reefs are noted for their rich cover of long-lived, slow growing species such as the axinellid sponges, seafans and ross corals. The sunset cup coral is present here in large numbers on vertical walls facing away from the prevailing swell. Some of the dives reported evidence of damage from dredging (for scallops).

Recorded biotopes

Sublittoral sediment

Circalittoral muddy sand

Circalittoral mixed sediment

Circalittoral coarse sediment

Circalittoral rock (and other hard substrata)

Mixed faunal turf communities

Sponges and anemones on vertical circalittoral bedrock

Bryozoan turf and erect sponges on tide-swept circalittoral rock

Eunicella verrucosa and *Pentapora foliacea* on wave-exposed circalittoral rock

Cluster of sunset coral - Leptopsammia pruvoti Photo Mike Markey

Most frequently recorded species

Number of Seasearch dives 12

Number of species/groups recorded 137

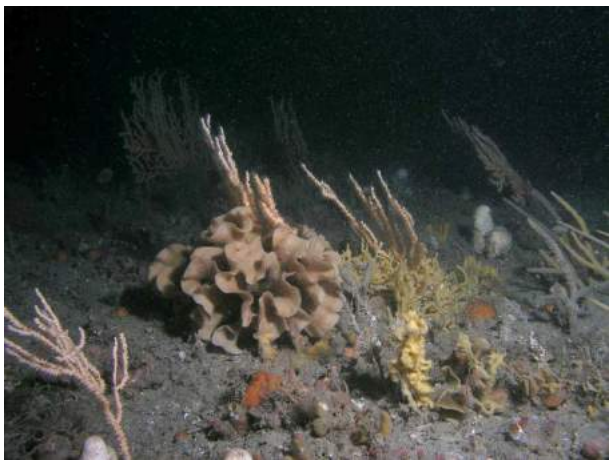
Species	Common name	No. of records	Abundance range
Eunicella verrucosa	Pink sea fan	12	R to A
Cliona celata	Sulphur sponge / yellow boring sponge	11	O to A
Pentapora foliacea	Ross coral/potato crisp bryozoan	11	R to A
Aiptasia mutabilis	Trumpet anemone	10	P to A
Axinella dissimilis	Yellow staghorn sponge	10	R to C
Bispira volutacornis	Double crowned fan worm	10	P to C
Pachymatisma johnstonia	Elephant's ear sponge	10	P to A
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	10	O to C
Alcyonium digitatum	Dead man's fingers soft coral	10	O to C
Ctenolabrus rupestris	Goldsinny	9	R to C
Labrus mixtus	Cuckoo wrasse	9	P to C
Esperiopsis fucorum	Shredded carrot sponge	8	P to F
Hydrallmania falcata	Spiralled sea fir / helter-skelter hydroid	7	P to C
Chaetopterus variopedatus	Parchment-tube paddle worm	7	P to F
Dysidea fragilis	Goose bump/hedgehog sponge	7	P to C
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	7	P to F
Raspailia ramosa	Chocolate finger/hairy antler sponge	6	P to C
Hemimycale columella	Pink/orange crater sponge	6	O to F
Phallusia mammillata	Michelin man seasquirt	6	R to F
Pecten maximus	Great scallop	6	P to O
Thorogobius ephippiatus	Leopard-spotted goby	5	R to C
Caryophyllia smithii	Devonshire cup coral	5	R to O
Cancer pagurus	Edible crab / brown crab /great crab	5	R to C
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	5	R to F
Rhodophycota	Red seaweeds	5	P to C
Protula tubularia	Calcareous tubeworm	4	R to O
Dercitus bucklandi	Black tar sponge	4	P to F
Raspailia hispida	Tall branching sponge	4	P to O
Cellepora pumicosa	Orange pumice bryozoan	4	F to C
Epizoanthus couchii	Brown star anemone	4	O to C
Aglaophenia tubulifera	A hydroid	4	O to C
Haliclona simulans	Bridge sponge	4	R to C
Boscia anglica	Cup-coral barnacle	4	P to F
Sidnyum elegans	A sea squirt	4	P to O
Sertularella gayi	A hydroid	4	P to O

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Pachymatisma johnstonia	Elephant's ear sponge	P to A	O	10
Cliona celata	Sulphur sponge / yellow boring sponge	O to A	F	11
Porifera indet.	Sponge crusts	C to A	C	2
Eunicella verrucosa	Pink sea fan	R to A	F	12
Aiptasia mutabilis	Trumpet anemone	P to A	O	10
Crisia	White claw sea moss/ crispy threads bryozoan	A	A	1
Pentapora foliacea	Ross coral/potato crisp bryozoan	R to A	F	11
Pollachius pollachius	Pollack	O to A	F	1
Max abundance = C				
Clathrina coriacea	White lace sponge	C	C	1
Axinella dissimilis	Yellow staghorn sponge	R to C	O	10
Raspailia ramosa	Chocolate finger/hairy antler sponge	P to C	O	6
Haliclona simulans	Bridge sponge	R to C	O	4
Dysidea fragilis	Goose bump/hedgehog sponge	P to C	O	7
Hydrozoa	Hyrdoids/ sea firs	C	C	1
Hydrallmania falcata	Spiralled sea fir / helter-skelter hydroid	P to C	O	7
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	O to C	F	10
Aglaophenia tubulifera	A hydroid	O to C	F	4
Alcyonium digitatum	Dead man's fingers soft coral	O to C	F	10
Zoantharia	Zooanthid	C	C	1
Epizoanthus couchii	Brown star anemone, sandy creeplet	O to C	F	4
Bispira volutacornis	Double crowned fan worm	P to C	O	10
Pomatoceros	A keel worm	O to C	F	3
Cancer pagurus	Edible crab / brown crab /great crab	R to C	O	5
Bryozoa	Sea mats / moss animals	C	C	1
Cellariidae	Bryozoan family	C	C	1
Cellaria fistulosa	A bryozoan	F to C	F	3
Cellepora pumicosa	Orange pumice bryozoan	F to C	F	4
Tunicata	Sea squirts	C	C	1
Trisopterus luscus	Bib/ pouting	C	C	1
Trisopterus minutus	Poor cod	O to C	F	2
Ctenolabrus rupestris	Goldsinny	R to C	O	9
Labrus mixtus	Cuckoo wrasse	P to C	O	9
Thorogobius ephippiatus	Leopard-spotted goby	R to C	O	5
Rhodophycota	Red seaweeds	P to C	O	5

Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	A to R	F	Climate
Chordata				
Ctenolabrus rupestris	Goldsinny	C to R	O	Climate
Centrolabrus exoletus	Rock cook	R	R	Climate
Cnidaria (Corals, anemones, hydroids)				
Leptopsammia pruvoti	Sunset cup coral	F	F	SOCC NS
Eunicella verrucosa	Pink sea fan	A to R	F	SOCC W&CA NS BAP Climate
Caryophyllia inornata	Button/southern cup coral	O to P	R	SOCC NR
Aiptasia mutabilis	Trumpet anemone	A to P	O	SOCC NS
Crustacea				
Maja squinado	Spiny spider crab	R to P	P	Climate
Mollusca				
Tritonia nilsodhneri	Seafan sea slug	F to R	O	SOCC NS
Tunicata (sea squirts)				
Phallusia mammillata	Michelin man seasquirt	F to R	O	SOCC NS



Seafans and ross coral on upward facing surface. Photo Mike Markey

Hydroid, Gymnangium montagui Photo Mike Markey

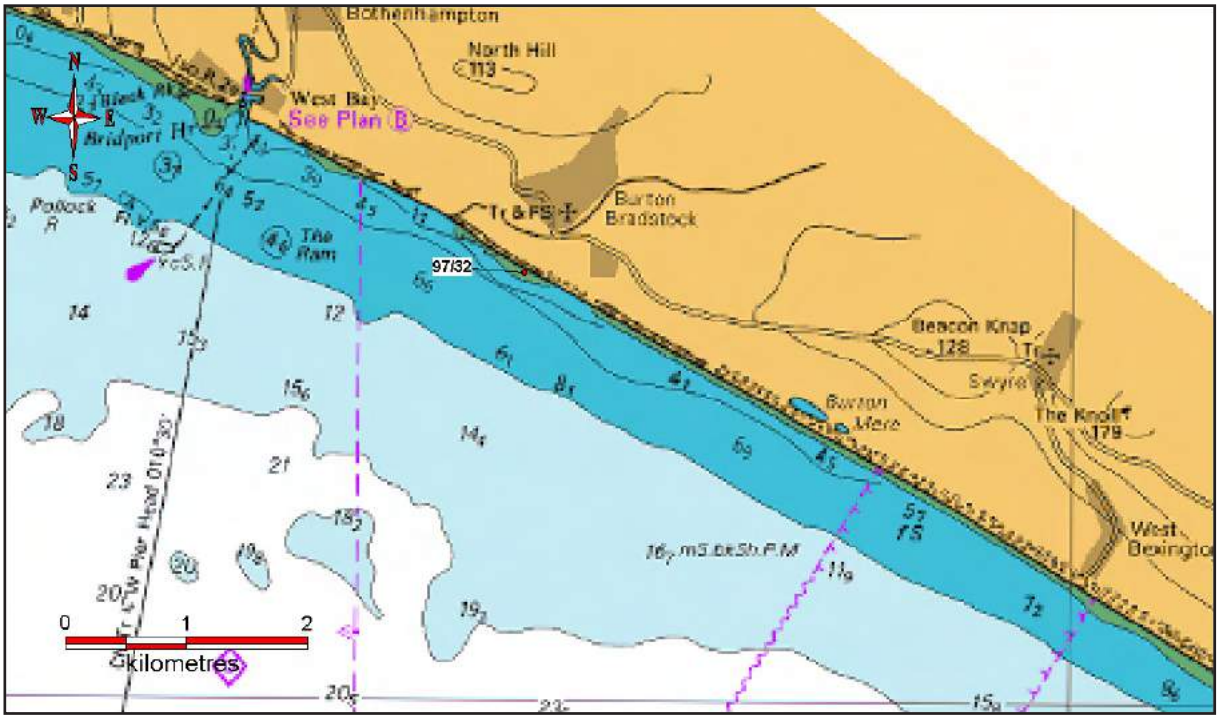
Ross coral and branching sponge Photo Mike Markey

Dense aggregation of Actinothoe anemones on steep side of reef Photo Mike Markey

Burton Bradstock

Number of Seasearch dives 1

Number of species/groups recorded 19



Physical environment:

Depth range: 0-5m

Cliffs and gullies of soft, piddock bored mudstone, topped by a harder sandstone slab. Layered hard and soft rock can be seen in the cliffs above the beach.

Habitat/Community types:

Flat rock topped with short (30cm) kelp with closely packed mussel bed beneath. Foliose red algae, especially *Chondrus?* and *Dilsea*. Pouting and corkwing wrasse hovering around. Mussels, *Mytilus edulis*, 0.5 to 1" long growing very close between kelp holdfasts.

Observations/Features of Interest:

Maja squinado in dense aggregation - on top and sides of gullies and several deep in the bottom. Most recently moulted and still soft. This aggregation was observed on 12/17 & 22 July 1997.

Recorded biotopes

Sublittoral sediment

Infralittoral fine sand

Infralittoral rock (and other hard substrata)

Kelp and red seaweeds (moderate energy infralittoral rock)

Laminaria digitata on moderately exposed sublittoral fringe rock

Laminaria digitata and piddocks on sublittoral fringe soft rock

Dense foliose red seaweeds on silty moderately exposed infralittoral rock

Circalittoral rock (and other hard substrata)

Soft rock communities

Piddocks with a sparse associated fauna in sublittoral very soft chalk or clay

Most frequently recorded species

Number of Seasearch dives 1

Number of species/groups recorded 19

Species	Common name	No. of records	Abundance range
Ectocarpus	A brown algae	1	P
Callionymus lyra	Common dragonet	1	O
Cancer pagurus	Edible crab / brown crab /great crab	1	P
Carcinus maenas	Common shore crab / green crab	1	O
Ceramium	A red algae	1	C
Chondrus crispus	Carragheen / Irish moss	1	C
Cladostephus spongiosus	Brown mouse-tail weed	1	F
Corallina officinalis	Coral weed / bone weed	1	P
Anguilla anguilla	An eel	1	P
Trisopterus luscus	Bib/ pouting	1	O
Laminaria digitata	Paddle weed / oar weed / tangle/ kelp	1	C
Laminaria hyperborea	Cuvie / northern kelp / forest kelp	1	C
Maja squinado	Spiny spider crab	1	P to A
Mysidae	A mysid shrimp	1	O
Mytilus edulis	Blue / edible / common mussel	1	C
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	1	P
Rhodophycota	Red seaweeds	1	C
Crenilabrus melops	Corkwing	1	O

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Maja squinado	Spiny spider crab	P to A	O	2
Max abundance = C				
Mytilus edulis	Blue / edible / common mussel	C	C	1
Rhodophycota	Red seaweeds	C	C	1
Chondrus crispus	Carragheen / Irish moss	C	C	1
Ceramium	A red algae	C	C	1
Laminaria digitata	Paddle weed / oar weed / tangle/ kelp	C	C	1
Laminaria hyperborea	Cuvie / northern kelp / forest kelp	C	C	1
Max abundance = F				

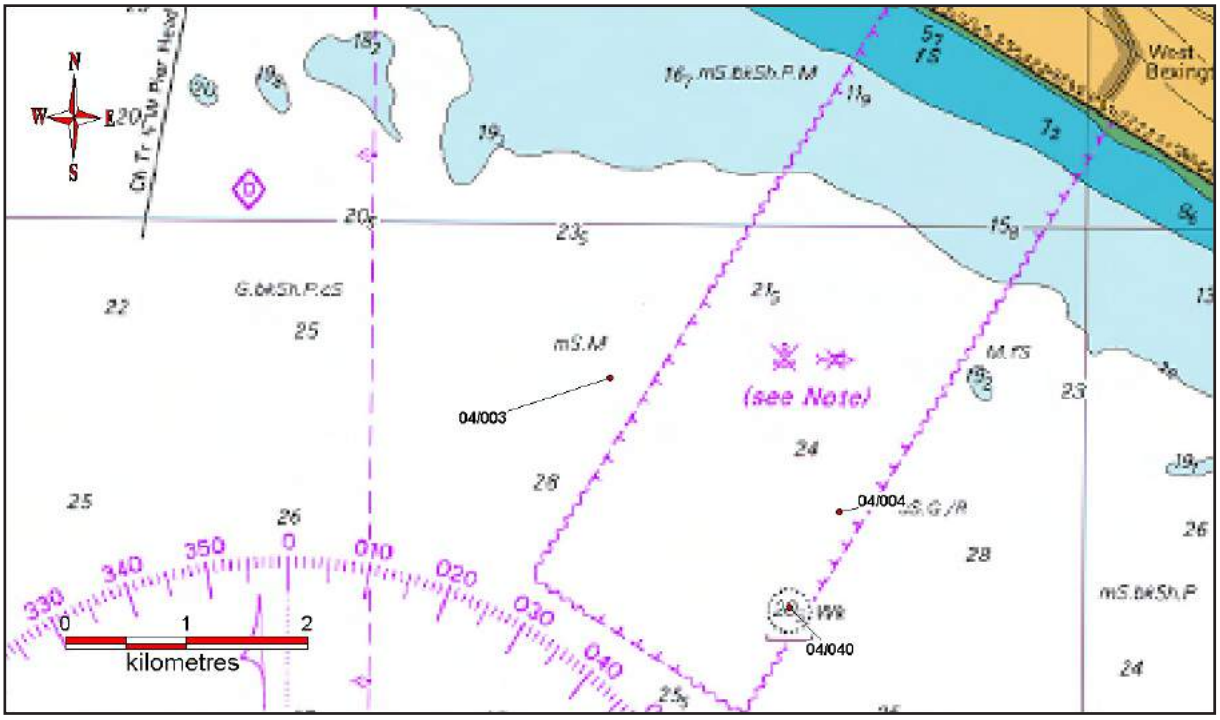
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Crustacea				
Maja squinado	Spiny spider crab	A to P	O	Climate

West Bexington Cable Area

Number of Seasearch dives 3

Number of species/groups recorded 25



Physical environment:

Depth range: 28-29m

Flat seabed of fine sand/muddy sand with occasional pebbles and small mounds/burrows. Dive 04/040 was on the wreck of the *St Dunstan*.

Habitat/Community types:

Queen scallops (*Aequipecten opercularis*) and hermit crabs in *Turritella* shells were the most visible life. Many of the scallops had an orange sponge on the upper valve. There were many vertical burrows about 2cm wide lined with a clay-like material that remains intact when the sand is wafted away (*Upogebe*?). The mounds were approx 10cm in diameter and 2cm high. Other species include the pelicans foot shell, *Aporrhais pespelecani*, the goosefoot starfish, *Anseropoda placenta* and the mud-runner crab, *Goneplax rhomboides*. The pebbles had hydroids, barnacle and keelworms attached and a few colonies of deadmens fingers or small ross coral colonies. Small queen scallops were attached to the pebbles.

A single seafan, *Eunicella verrucosa*, was recorded on the *St Dunstan*.

Observations/Features of Interest:

An area of 3 square nautical miles near West Bexington is marked on the Admiralty Chart as a "Cable Area" with the warning – "Vessels are warned not to anchor, sweep or trawl in this area due to cables and obstructions".

This was used by the Navy from 1961 to test hydrophones. The Navy subsequently placed concrete blocks on the seabed to deter trawlers who were ignoring the notice.

Dorset Wildlife Trust is interested in investigating this area to look for evidence that the area has been largely unfished for several decades.

Recorded biotopes

Sublittoral sediment

Circalittoral muddy sand

Circalittoral mixed sediment

Queen scallop on sand

Serpula, small ross coral and queen scallop on pebble

Most frequently recorded species

Number of Seasearch dives 3

Number of species/groups recorded 25

Species	Common name	No. of records	Abundance range
Paguridae	Hermit crab family	3	O to C
Aporrhais pespelecani	Pelican's foot shell	2	O
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	2	P to R
Pentapora foliacea	Ross coral/potato crisp bryozoan	2	R
Pectinidae	Scallop family	2	R to C
Aequipecten opercularis	Queen scallop or queenie	2	C
Ophiuroidea	Brittlestar family	1	R
Alcyonium digitatum	Dead man's fingers soft coral	1	O
Asterias rubens	Common/ shore starfish	1	O
Buccinum undatum	Common whelk / bucci / edible whelk	1	O
Cardiidae	Cockle family	1	C
Cirripedia	Barnacles	1	C
Ensis	Razor shells	1	R
Eunicella verrucosa	Pink sea fan	1	R
Gobiidae	Goby family	1	O
Halecium halecinum	Herringbone hydroid	1	P
Serpula vermicularis	Organ pipe worm	1	O
Pecten maximus	Great scallop	1	R
Philine aperta	White mud slug	1	R
Polinices	A necklace shell	1	O
Pomatoceros	A keel worm	1	O

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = C				
Porifera indet crusts	Sponge crusts	C	C	1
Cirripedia	Barnacles	C	C	1
Paguridae	Hermit crab family	O to C	F	3
Pectinidae	Scallop family	R to C	O	2
Aequipecten opercularis	Queen scallop or queenie	C	C	2
Cardiidae	Cockle family	C	C	1
Max abundance = O				
Alcyonium digitatum	Dead man's fingers soft coral	O	O	1
Pomatoceros	A keel worm	O	O	1
Serpula vermicularis	Organ pipe worm	O	O	1
Aporrhais pespelecani	Pelican's foot shell	O	O	2
Polinices	A neckalce shell	O	O	1
Buccinum undatum	Common whelk / bucci / edible whelk	O	O	1
Asterias rubens	Common/ shore starfish	O	O	1
Gobiidae	Goby family	O	O	1

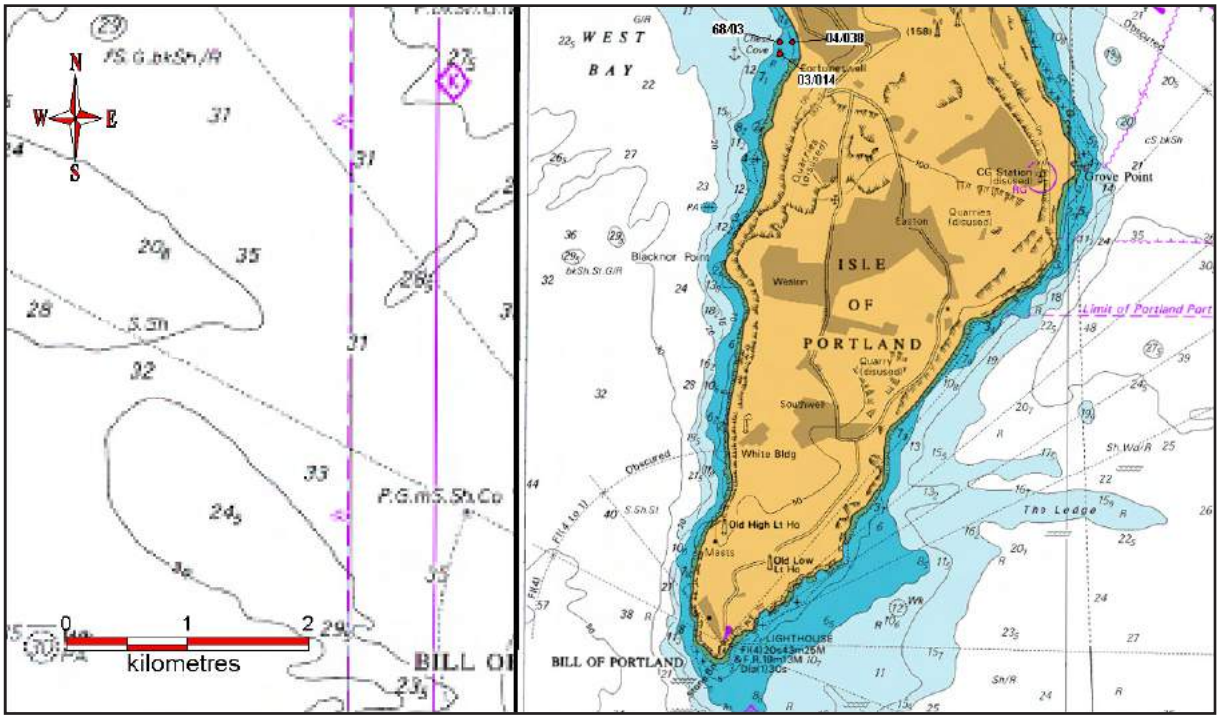
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Annelida (Worms)				
Serpula vermicularis	Organ pipe worm	0	0	HAP
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	R	R	Climate
Cnidaria (Corals, anemones, hydroids)				
Eunicella verrucosa	Pink sea fan	R	R	SOCC W&CA NS BAP Climate

Chesil Cove

Number of Seasearch dives 2

Number of species/groups recorded 21



Physical environment:

Depth range: 0-14m

Pebbles from the beach down to about 6-9m, then a few weed covered boulders. At 12m this gives way to sand/gravel with patches of boulders.

Habitat/Community types:

Pebbles are very mobile and therefore largely bare, though some seaweeds can develop here in calm weather periods in summer. The boulders have a short algal turf with snakelocks anemones, *Anemonia viridis,* and fanworms, *Bispira volutacornis*. Several fish species recorded here including pollack, bib, red mullet, sea bass, dragonets, pipefish, ballan wrasse, sand eels and gobies. Several cuttlefish were also spotted here.

Observations/Features of Interest:

Recorded biotopes

Sublittoral sediment

Infralittoral coarse sediment

Sparse fauna on highly mobile sublittoral shingle (cobbles and pebbles)

Infralittoral rock (and other hard substrata)

Kelp with cushion fauna and/or foliose red seaweeds

Laminaria hyperborea with dense foliose red seaweeds on exposed infralittoral rock

Laminaria hyperborea park with dense foliose red seaweeds on exposed lower infralittoral rock

Foliose red seaweeds on exposed lower infralittoral rock

Most frequently recorded species

Number of Seasearch dives 2

Number of species/groups recorded 21

Species	Common name	No. of records	Abundance range
Nucella lapillus	Dog whelk	1	O
Anemonia viridis	Snakelocks anemone	1	C
Arenicola	A lug worm	1	C
Bispira volutacornis	Double crowned fan worm	1	O
Callionymus lyra	Common dragonet	1	R
Cliona celata	Sulphur sponge / yellow boring sponge	1	O
Dicentrarchus labrax	Sea bass	1	P
Homarus gammarus	Common lobster	1	R
Labridae	Wrasses	1	C
Ammodytes	Sand eels	1	C
Mullus surmuletus	Red mullet	1	R
Trisopterus luscus	Bib/ pouting	1	C
Pachymatisma johnstonia	Elephant's ear sponge	1	P
Paguridae	Hermit crab family	1	R
Platyhelminthes	Worms	1	R
Pollachius pollachius	Pollack	1	C
Pomatoschistus	A goby	1	P
Sepia officinalis	Common cuttlefish	1	O
Syngnathidae	Pipefish family	1	R
Syngnathus acus	Greater pipefish	1	R
Labrus bergylta	Ballan wrasse	1	P

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = C				
Anemonia viridis	Snakelocks anemone	C	C	1
Arenicola	A lug worm	C	C	1
Pollachius pollachius	Pollack	C	C	1
Trisopterus luscus	Bib/ pouting	C	C	1
Labridae	Wrasses	C	C	1
Ammodytes	Sand eels	C	C	1
Max abundance = O				
Cliona celata	Sulphur sponge / yellow boring sponge	O	O	1
Bispira volutacornis	Double crowned fan worm	O	O	1
Nucella lapillus	Dog whelk	O	O	1
Sepia officinalis	Common cuttlefish	O	O	1

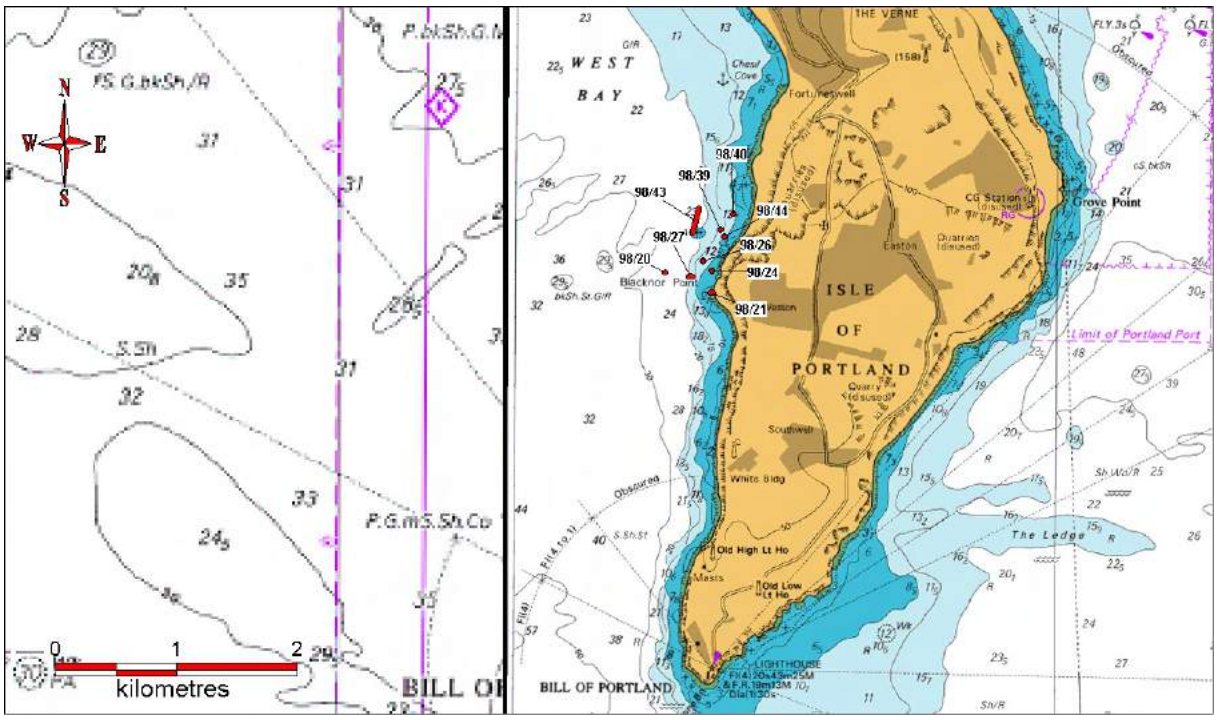
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Cnidaria (Corals, anemones, hydroids)				
Anemonia viridis	Snakelocks anemone	C	C	Climate

Blacknor Point

Number of Seasearch dives 7 Number of habitats recorded 9

Number of species/groups recorded 87



Physical environment:

Depth range 10-19m

A rugged site with very large, rectangular boulders forming gullies and overhangs. Between the very large boulders, a mixture of smaller boulders, rounded cobbles and pebbles with patches of clay visible.

98/26 and 98/40 included metal wreckage - the wreck of the James Fennel is in this area.

Habitat/Community types:

The largest boulders were topped with kelp and red algae, otherwise red and some brown algae on the horizontal surfaces with bryozoan turf (including *Bugula*, *Crisia*, *Cellaria*, *Cabarea* and some *Scrupocellaria*) and sponges, including frequent massive *Cliona celata* on the vertical surfaces. The horseshoe worm, *Phoronis*, was frequently recorded in patches on vertical/overhanging faces, especially scoured areas near the base of the boulders.

Areas where the clay seabed showed through were generally heavily bored by piddocks. The smaller cobbles and pebbles were covered with barnacles and keelworms.

At site 98/20 the boulders were covered by edible mussels, in turn covered by barnacles. Large common starfish, *Asterias rubens*, were common at this site.

Wrasses and tompot blennies were plentiful and the many crevices between boulders were often occupied by crabs and lobsters.

Observations/Features of Interest:

Sublittoral dogwhelks, including patches of eggs, recorded from the mussel beds at site 98/20.

Nudibranchs and the candy-striped flatworm, *Prosthecereaus vittatus*, described as common. The hydroid *Gymnangium montagui* was recorded here.

Hydroid Amphisbetia operculata growing on clumps of mussels
Photo K Hiscock

Egg clumps of sublittoral dogwhelks, Nucella lapillus
Photo K Hiscock

Recorded biotopes

Sublittoral sediment

Infralittoral mixed sediment

Infralittoral coarse sediment

Circalittoral coarse sediment

Infralittoral rock (and other hard substrata)

Kelp with cushion fauna and/or foliose red seaweeds

Laminaria hyperborea with dense foliose red seaweeds on exposed infralittoral rock

Laminaria hyperborea park with dense foliose red seaweeds on exposed lower infralittoral rock

Foliose red seaweeds on exposed lower infralittoral rock

Circalittoral rock (and other hard substrata)

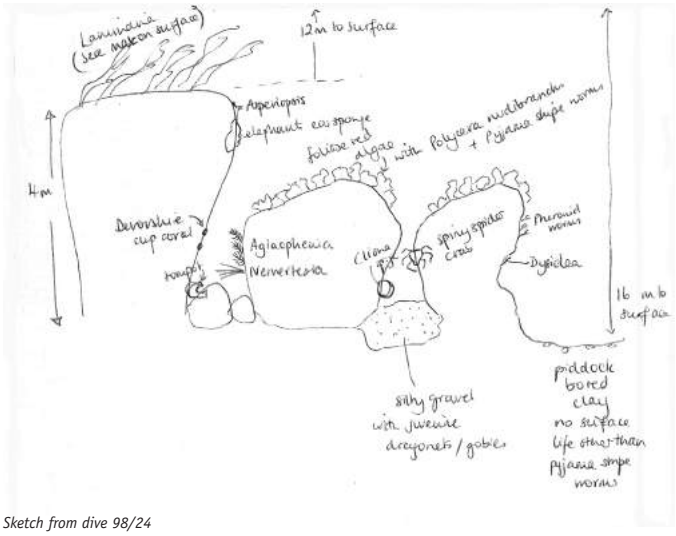
Circalittoral mussel beds on rock

Mytilus edulis beds with hydroids and ascidians on tide-swept exposed to moderately wave-exposed circalittoral rock

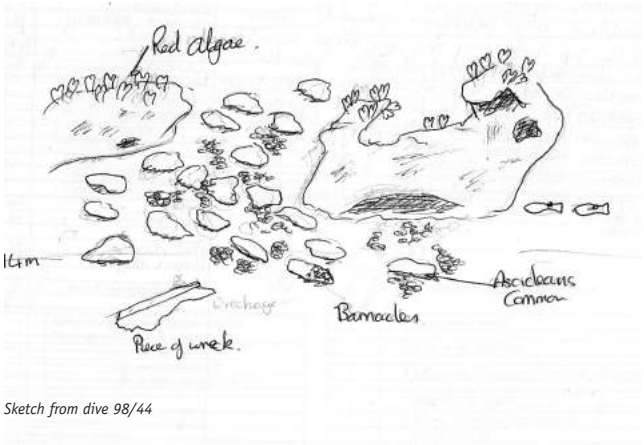
Mixed faunal turf communities

Sponges and anemones on vertical circalittoral bedrock

Circalittoral fouling faunal communities



Sketch from dive 98/24



Sketch from dive 98/44

Most frequently recorded species

Number of Seasearch dives	9
Number of species/groups recorded	87

Species	Common name	No. of records	Abundance range
Cliona celata	Sulphur sponge / yellow boring sponge	7	P to F
Prostheceraeus vittatus	Candy-striped flat worm	7	R to C
Ctenolabrus rupestris	Goldsinny	7	O to C
Bispira volutacornis	Double crowned fan worm	6	P to C
Labrus bergylta	ballan wrasse	6	O to C
Parablennius gattorugine	tompot blenny	5	R to F
Bugula	A bryozoan	5	R to A
Labrus mixtus	Cuckoo wrasse	5	R to O
Pachymatisma johnstonia	Elephant's ear sponge	4	O to F
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	4	O to F
Dysidea fragilis	Goose bump/hedgehog sponge	4	R to O
Delesseria sanguinea	Sea beech	4	R to O
Alcyonium digitatum	Dead man's fingers soft coral	4	R to C
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	4	R to F

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = S				
Balanus crenatus	Crenulated acorn barnacle	S	S	1
Mytilus edulis	Blue / edible / common mussel	S	S	1
Max abundance = A				
Pomatoceros triqueter	Keel worm	A	A	1
Cirripedia	Barnacles	A	A	1
Balanus	An acorn barnacle	A	A	1
Bryozoa	Sea mats / moss animals	F to A	C	2
Bugula	A bryozoan	R to A	F	5
Bugula turbinata	Bottle brush bryozoan	A	A	1
Rhodophycota	Red seaweeds	C to A	C	3
Max abundance = C				
Alcyonium digitatum	Dead man's fingers soft coral	R to C	O	4
Prostheceraeus vittatus	Candy-striped flat worm	R to C	O	7
Bispira volutacornis	Double crowned fan worm	P to C	O	6
Polycera	A sea slug	C	C	1
Aeolidia	A sea slug	C	C	1
Crisiidae	Bryozoans	C	C	1
Membranipora membranacea	Kelp sea mat	C	C	1
Phoronis	A horseshoe worm	R to C	O	3
Trisopterus luscus	Bib/ pouting	R to C	O	3
Crenilabrus melops	Corkwing	R to C	O	2
Ctenolabrus rupestris	Goldsinny	O to C	F	7
Labrus bergylta	Ballan wrasse	O to C	F	6

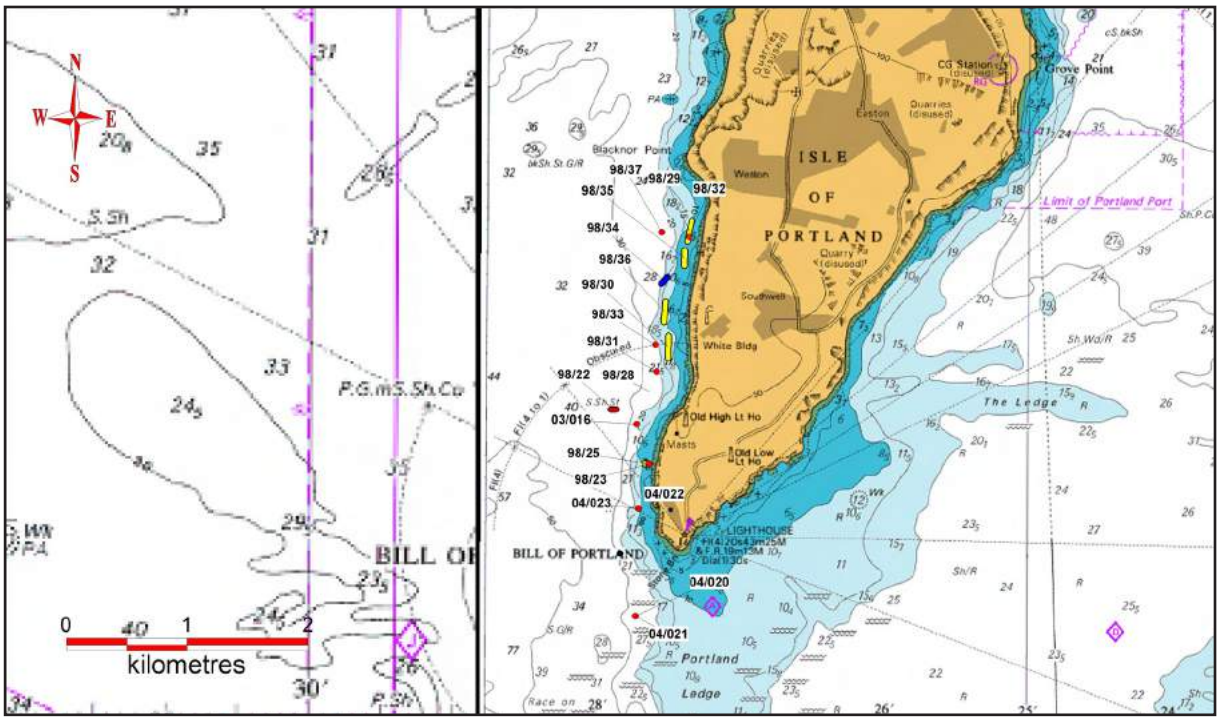
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	R	R	Climate
Chordata				
Ctenolabrus rupestris	Goldsinny	C to O	F	Climate
Centrolabrus exoletus	Rock cook	O to R	R	Climate
Cnidaria (Corals, anemones, hydroids)				
Anemonia viridis	Snakelocks anemone	O	O	Climate
Crustacea				
Maja squinado	Spiny spider crab	F to R	O	Climate

West coast Portland

Number of Seasearch dives 16

Number of species/groups recorded 165



Physical environment:

Depth range 5-27m

A rugged site with large or very large limestone boulders or bedrock ridges/gullies with clean gravel, cobbles and pebbles in between. Many overhangs and "mini caves" among the boulders. Quite steep slope near the shore, but the seabed becomes flatter further out. Some more open areas with scattered boulders on a cobble/pebble and gravel seabed. Evidence of scouring at base of boulders.

Habitat/Community types:

Down to about 12m, upward facing surfaces dominated by kelp forest with red algae on the kelp stipes and on the underlying bedrock and bryozoan cover on the kelp fronds.

Vertical surfaces covered with bryozoans with sponges, hydroids and deadmens fingers, *Alcyonium digitatum*.

"Mini-caves" were described with a distinct community - dominated by the barnacles *Verruca stroemia* and *Balanus crenatus* with encrusting and erect bryozoans and the black-tar sponge, *Dercitus bucklandii*.

The scoured base of some of the boulders were colonised by the horseshoe worm, *Phoronis*.

Several sites reported lots of mussel shells in the sediment - sites 98/77 and 298/36 reported large numbers of mussels, *Mytilus edulis*, covered in barnacles and with clumps of the hydroid *Amphisbetia operculata*. Large common starfish, *Asterias rubens* were reported in large numbers here - *Asterias* is virtually absent east of Portland.

Smaller cobbles/pebbles covered with barnacles and keelworms but gravel largely barren.

Fish life included wrasse, tompot blennies and the leopard-spotted goby, *Thorogobius ephippiatus*, associated with small overhangs at the base of boulders.

Observations/Features of Interest:

Barnacles observed on Devonshire cup-corals. The presence of the pink seafan, *Eunicella verrucosa*, is expected here as until recently, Portland Bill was considered as the eastern limit of its range in the Channel. Two colonies were recorded. The fan shown in the photograph overleaf shows signs of physical damage.

Recorded biotopes

Sublittoral sediment

Infralittoral coarse sediment

Circalittoral coarse sediment

Sublittoral mussel beds (on sublittoral sediment)

Mytilus edulis beds on sublittoral sediment

Infralittoral rock (and other hard substrata)

Kelp and red seaweeds (moderate energy infralittoral rock)

Laminaria hyperborea and foliose red seaweeds on moderately exposed infralittoral rock

Laminaria hyperborea park and foliose red seaweeds on moderately exposed lower infralittoral rock

Kelp with cushion fauna and/or foliose red seaweeds

Laminaria hyperborea with dense foliose red seaweeds on exposed infralittoral rock

Laminaria hyperborea park with dense foliose red seaweeds on exposed lower infralittoral rock

Laminaria hyperborea forest with dense foliose red seaweeds on exposed upper infralittoral rock

Foliose red seaweeds on exposed lower infralittoral rock

Circalittoral rock (and other hard substrata)

Echinoderms and crustose communities

Faunal and algal crusts on exposed to moderately wave-exposed circalittoral rock

Alcyonium digitatum, Pomatoceros triqueter, algal and bryozoan crusts on wave-exposed circalittoral rock

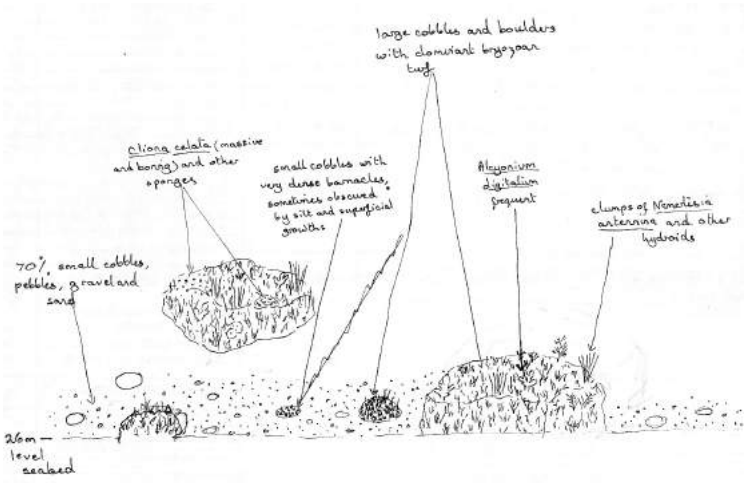
Circalittoral mussel beds on rock

Mytilus edulis beds with hydroids and ascidians on tide-swept exposed to moderately wave-exposed circalittoral rock

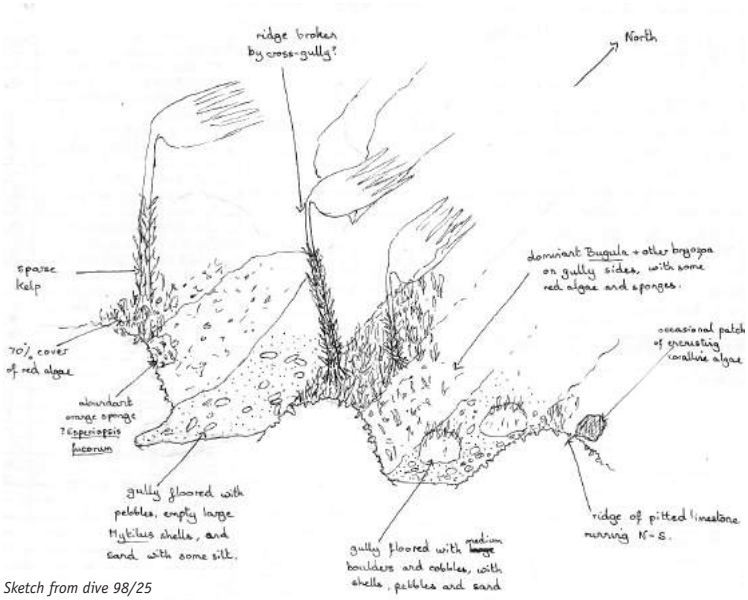
Mixed faunal turf communities

Sponges and anemones on vertical circalittoral bedrock

Bryozoan turf and erect sponges on tide-swept circalittoral rock



Sketch from dive 98/37



Sketch from dive 98/25

Single seafan, Eunicella verrucosa - Photo K Hiscock

Base of boulder with Phoronis - Photo K Hiscock

Most frequently recorded species

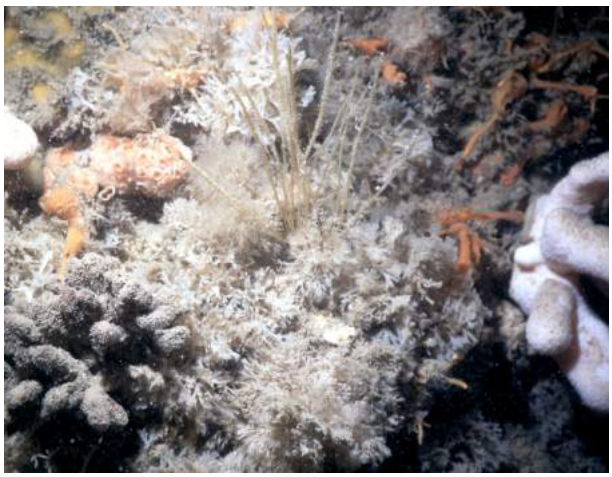
Number of Seasearch dives 17

Number of species/groups recorded 165

Species	Common name	No. of records	Abundance range
Ctenolabrus rupestris	Goldsinny	12	R to C
Labrus bergylta	Ballan wrasse	12	R to C
Cliona celata	Sulphur sponge / yellow boring sponge	11	O to C
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	11	R to A
Pachymatisma johnstonia	Elephant's ear sponge	10	R to C
Maja squinado	Spiny spider crab	9	R to C
Parablennius gattorugine	Tompot blenny	9	R to C
Alcyonium digitatum	Dead man's fingers soft coral	9	O to A
Clavelina lepadiformis	Lightbulb seasquirt	8	R to O
Labrus mixtus	Cuckoo wrasse	8	R to A
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	8	R to F
Cancer pagurus	Edible crab / brown crab /great crab	8	R to C
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	7	R to C
Caryophyllia smithii	Devonshire cup coral	7	O to F
Centrolabrus exoletus	Rock cook	6	R to C
Esperiopsis fucorum	Shredded carrot sponge	6	O to A
Asterias rubens	Common/ shore starfish	6	R to A
Mytilus edulis	Blue / edible / common mussel	5	F to A
Membranipora membranacea	Kelp sea mat	5	O to F
Pollachius pollachius	Pollack	5	R to C
Thorogobius ephippiatus	Leopard-spotted goby	5	R to O
Laminaria hyperborea	Cuvie / northern kelp / forest kelp	4	O to A
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	4	R to F
Hemimycale columella	Pink/orange crater sponge	4	O to F
Phoronis	A horseshoe worm	4	O to F
Pentapora foliacea	Ross coral/potato crisp bryozoan	4	R to F
Polycera faeroensis	Yellow flecked sea slug	4	R to O
Bugula turbinata	Bottle brush bryozoan	4	F to C
Trisopterus luscus	Bib/ pouting	4	O to F
Bugula plumosa	Tapered bottle brush bryozoan	4	O to C
Bicellariella ciliata	Soft-focus bryozoan	4	O to F
Rhodophycota	Red seaweeds	4	P to A

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = S				
Cellaria fistulosa	A bryozoan	R to S	F	3
Max abundance = A				
Esperiopsis fucorum	Shredded carrot sponge	O to A	F	6
Tubularia	A hydroid	R to A	F	3
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	R to A	F	11
Nemertesia ramosa	Branched antenna hydroid	O to A	F	3
Alcyonium digitatum	Dead man's fingers soft coral	O to A	F	9
Balanus	An acorn barnacle	F to A	C	2
Balanus crenatus	Crenulated acorn barnacle	R to A	F	3
Mytilus edulis	Blue / edible / common mussel	F to A	C	5
Bryozoa	Sea mats / moss animals	F to A	C	3
Chartella papyracea	Lesser hornwrack	R to A	F	3
Bugula	A bryozoan	O to A	F	2
Cellepora pumicosa	Orange pumice bryozoan	O to A	F	1
Asterias rubens	Common/ shore starfish	R to A	F	6
Labrus mixtus	Cuckoo wrasse	R to A	F	8
Rhodophycota	Red seaweeds	P to A	O	4
Laminaria	A kelp	O to A	F	3
Laminaria hyperborea	Cuvie / northern kelp / forest kelp	O to A	F	4



Erect bryozoans with hydroids and sponges - Photo K Hiscock

Boulder with bryozoan/hydoid turf and large Cliona celata resting on gravel with mussel shells - Photo K Hiscock

Max abundance = C

Leucosolenia botryoides	A spikey lace sponge	O to C	F	1
Scypha ciliata	Crowned purse sponge	R to C	O	3
Pachymatisma johnstonia	Elephant's ear sponge	R to C	O	10
Cliona celata	Sulphur sponge / yellow boring sponge	O to C	F	11
Hydrozoa	Hydroids/ sea firs	F to C	F	2
Halecium halecinum	Herringbone hydroid	O to C	F	3
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	R to C	O	7
Cirripedia	Barnacles	P to C	O	3
Verruca stroemia	Verruca barnacle	C	C	1
Maja squinado	Spiny spider crab	R to C	O	9
Cancer pagurus	Edible crab / brown crab /great crab	R to C	O	8
Ocenebra erinacea	Sting winkle / oyster drill	O to C	F	3
Bugula flabellata	Bugle bryozoan	F to C	F	1
Bugula plumosa	Tapered bottle brush bryozoan	O to C	F	4
Bugula turbinata	Bottle brush bryozoan	F to C	F	4
Aplidium punctum	Single spotted colonial seasquirt	O to C	F	3
Ciona intestinalis	Yellow rimmed seasquirt	C	C	1
Pollachius pollachius	Pollack	R to C	O	5
Centrolabrus exoletus	Rock cook	R to C	O	6
Crenilabrus melops	Corkwing	R to C	O	2
Ctenolabrus rupestris	Goldsinny	R to C	O	12
Labrus bergylta	Ballan wrasse	R to C	O	12
Blenniidae	Blenny family	C	C	1
Parablennius gattorugine	Tompot blenny	R to C	O	9
Gobiusculus flavescens	Two-spotted goby	O to C	F	2
Plocamium cartilagineum	Red comb weed / cockscombe / scarlet hair flag	O to C	F	2
Delesseria sanguinea	Sea beech	O to C	F	3
Drachiella spectabilis	Rainbow weed/iridescent drachiella	C	C	1

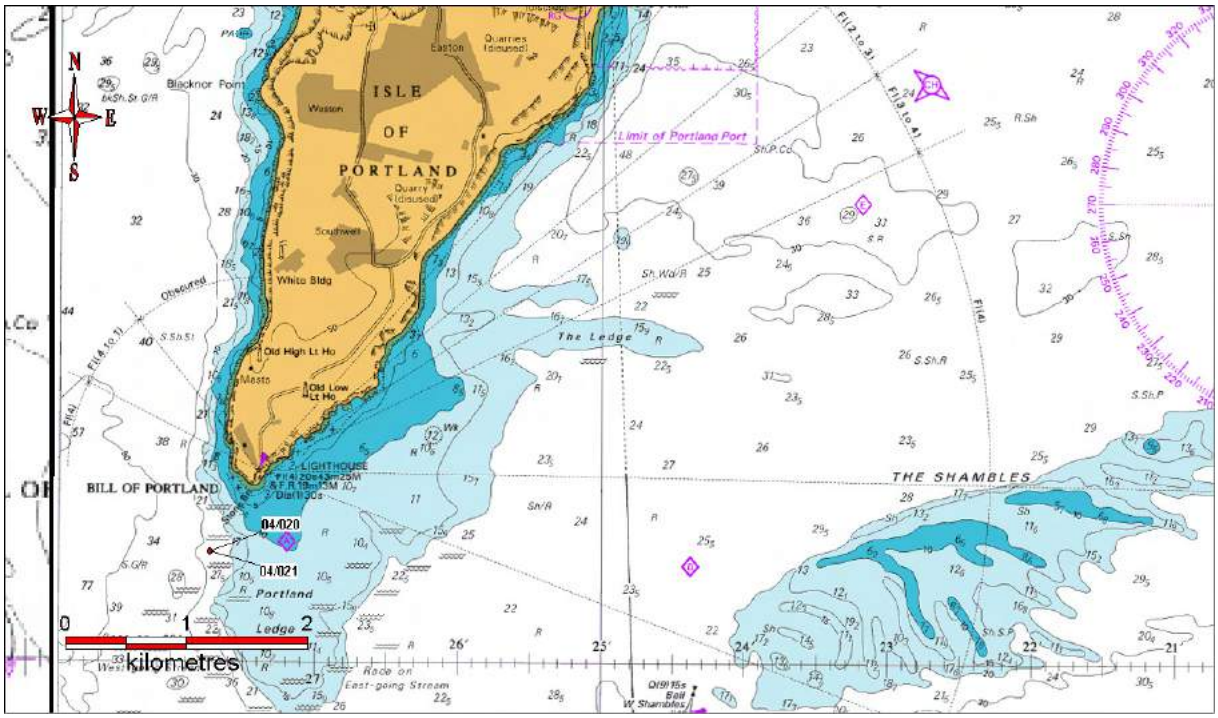
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	F to R	O	Climate
Chordata				
Pleuronectes platessa	Plaice	O	O	SOCC BAP
Ctenolabrus rupestris	Goldsinny	C to R	O	Climate
Centrolabrus exoletus	Rock cook	C to R	O	Climate
Cnidaria (Corals, anemones, hydroids)				
Eunicella verrucosa	Pink sea fan	R to P	P	SOCC W&CA NS BAP Climate
Anemonia viridis	Snakelocks anemone	R	R	Climate
Crustacea				
Maja squinado	Spiny spider crab	C to R	O	Climate
Mollusca				
Tritonia nilsodhneri	Seafan sea slug	O	O	SOCC NS

Portland Bill

Number of Seasearch dives 2 Number of habitats recorded 3

Number of species/groups recorded 33



Physical environment:

Depth range: 11-23m

An area of very strong tidal currents. A boulder slope of large, angular boulders with coarse sand/gravel in between, sloping away to the south-west. Gives way to a flatter seabed of boulders on mixed sediment, with a heavily bored, soft rock seabed showing through in places.

Habitat/Community types:

Sparse kelp (*Saccorhiza polyschides*) on boulder tops at 12m. Red algae, hydroids (*Nemertesia antennina*, *Sertularia sp*. and *Tubularia indivisa*) barnacles and deadmens fingers dominant along with the sponge, *Esperiopsis fucorum*. Several nudibranchs recorded here, including *Polycera faeroensis* and *Coryphella browni*. Many fish including large ballan wrasse, cuckoo wrasse, rock cook and goldisnny.

Observations/Features of Interest:

Recorded biotopes

Infralittoral rock (and other hard substrata)

Sediment-affected or disturbed kelp and seaweed communities

Laminaria saccharina and/or *Saccorhiza polyschides* on exposed infralittoral rock

Circalittoral rock (and other hard substrata)

Very tide-swept faunal communities

Tubularia indivisa on tide-swept circalittoral rock

Alcyonium digitatum with dense *Tubularia indivisa* and anemones on strongly tide-swept circalittoral rock

Most frequently recorded species

Number of Seasearch dives 2

Number of species/groups recorded 33

Species	Common name	No. of records	Abundance range
Polycera faeroensis	Yellow flecked sea slug	2	P to R
Ctenolabrus rupestris	Goldsinny	2	R to O
Coryphella browni	A sea slug	2	C
Cliona celata	Sulphur sponge / yellow boring sponge	2	R to O
Parablennius gattorugine	Tompot blenny	2	R
Labrus bergylta	Ballan wrasse	2	O
Clavelina lepadiformis	Lightbulb seasquirt	2	R to O
Maja squinado	Spiny spider crab	2	R to O
Rhodophycota	Red seaweeds	2	P to A
Centrolabrus exoletus	Rock cook	2	O
Cancer pagurus	Edible crab / brown crab /great crab	2	R

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Tubularia indivisa	Oaten pipe hydroid	F to A	C	1
Cirripedia	Barnacles	C to A	C	1
Rhodophycota	Red seaweeds	P to A	O	2
Max abundance = C				
Esperiopsis fucorum	Shredded carrot sponge	F to C	F	1
Sertularia	A hydroid	C	C	1
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	F to C	F	1
Alcyonium digitatum	Dead man's fingers soft coral	C	C	1
Coryphella browni	A sea slug	C	C	2
Max abundance = F				
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	O to F	O	1
Max abundance = O				
Scypha ciliata	Crowned purse sponge	O	O	1
Cliona celata	Sulphur sponge / yellow boring sponge	R to O	R	2
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	O	O	1
Corynactis viridis	Jewel anemone	O	O	1
Caryophyllia smithii	Devonshire cup coral	O	O	1
Maja squinado	Spiny spider crab	R to O	R	2
Clavelina lepadiformis	Lightbulb seasquirt	R to O	R	2
Centrolabrus exoletus	Rock cook	O	O	2
Ctenolabrus rupestris	Goldsinny	R to O	R	2
Labrus bergylta	Ballan wrasse	O	O	2
Labrus mixtus	Cuckoo wrasse	O	O	1
Saccorhiza polyschides	Furbellows	O	O	1

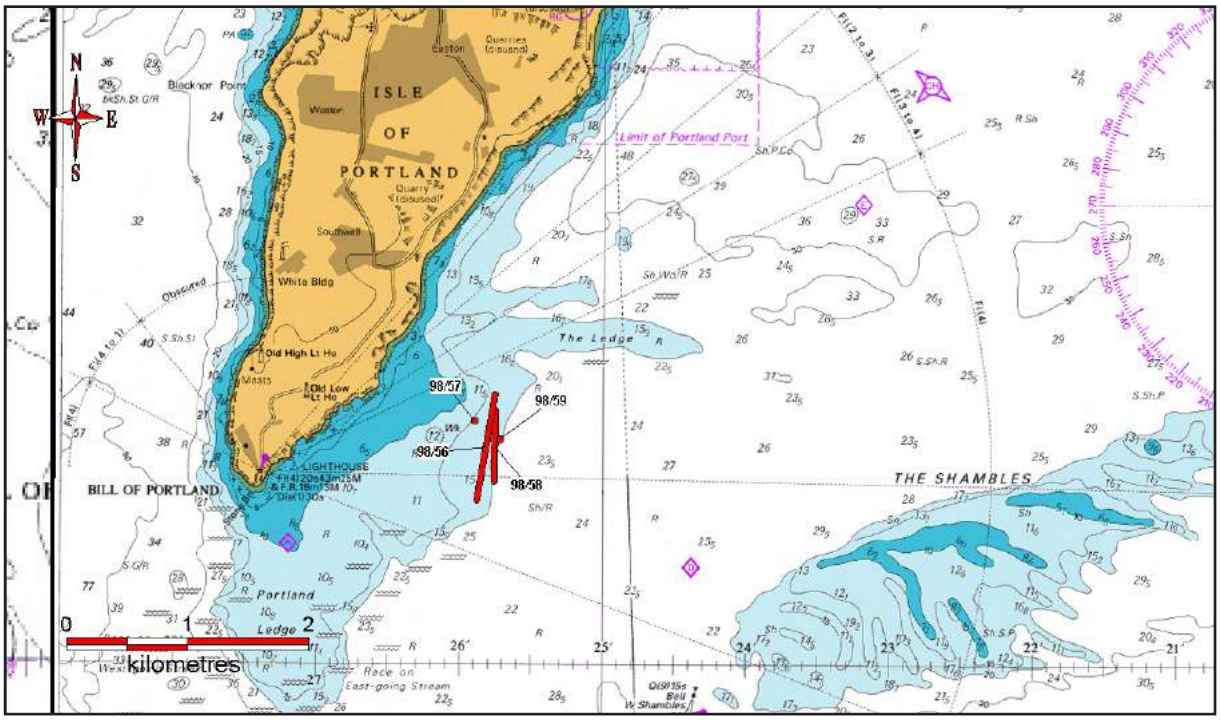
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	P	P	Climate
Chordata				
Ctenolabrus rupestris	Goldsinny	0 to R	R	Climate
Centrolabrus exoletus	Rock cook	0	0	Climate
Crustacea				
Maja squinado	Spiny spider crab	0 to R	R	Climate

East of Portland Bill

Number of Seasearch dives 4

Number of species/groups recorded 55



Physical environment:

Depth range 5-25m

Very flat (few projections greater than a couple of centimetres) or gently sloping limestone bedrock, in places overlain with small boulders and gravel. The deeper area to the south is more broken bedrock with large to medium limestone boulders.

Habitat/Community types:

Sparse kelp down to around 12-13m, then cover of small foliose red and brown algae with increasing amounts of hydroids, bryozoans and encrusting sponges as depth increases. Algae include *Calliblepharis ciliata*, *Heterosiphonia plumosa* and *Delesseria sanguinea*. Hydroids dominated by *Nemertesia antennina, N. ramosa* and *Aglaophenia*. Jewel anemones, *Corynactis viridis*, were common on the flat bedrock, with other anemones including *Sagartia, Cereus* and *Urticina*. The large boulders had a cover of encrusting sponges, particularly on vertical surfaces.

Observations/Features of Interest:

The massive form of the boring sponge, *Cliona celata*, was recorded here, as was the horseshoe worm, *Phoronis*, both indicators of the presence of limestone. Patches of jewel anemones, *Corynactis viridis*, were recorded on very flat, horizontal bedrock - this species is more associated with vertical or slightly overhanging surfaces.

Recorded biotopes

Sublittoral sediment

Circalittoral mixed sediment

Infralittoral rock (and other hard substrata)

Kelp and red seaweeds (moderate energy infralittoral rock)

Laminaria hyperborea and foliose red seaweeds on moderately exposed infralittoral rock

*Laminaria hyperborea park a*nd foliose red seaweeds on moderately exposed lower infralittoral rock

Dense foliose red seaweeds on silty moderately exposed infralittoral rock

Kelp with cushion fauna and/or foliose red seaweeds

Foliose red seaweeds on exposed lower infralittoral rock

Circalittoral rock (and other hard substrata)

Mixed faunal turf communities

Sponges and anemones on vertical circalittoral bedrock

Corynactis viridis and a mixed turf of *Crisiids, Bugula, Scrupocellaria,* and *Cellaria* on moderately tide-swept exposed circalittoral rock

Bryozoan turf and erect sponges on tide-swept circalittoral rock

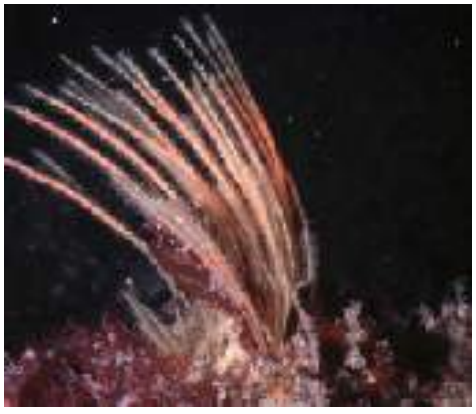
Mixed turf of bryozoans and erect sponges with *Dysidia fragilis* and *Actinothoe sphyrodeta o*n tide-swept wave-exposed circalittoral rock

Most frequently recorded species

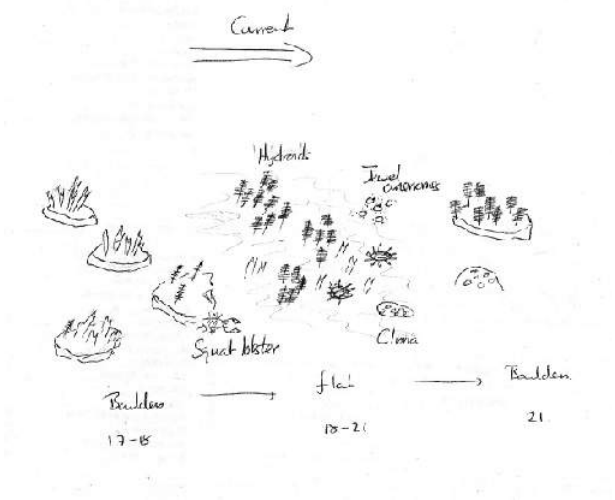
Number of Seasearch dives 4

Number of species/groups recorded 55

Species	Common name	No. of records	Abundance range
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	3	R to A
Hemimycale columella	Pink/orange crater sponge	3	O to C
Dysidea fragilis	Goose bump/hedgehog sponge	3	O to F
Rhodophycota	Red seaweeds	3	O to A
Flustra foliacea	Hornwrack / leafy bryozoan	3	O to C
Cliona celata	Sulphur sponge / yellow boring sponge	3	R to O
Halichondria	A sponge	2	P to F
Corynactis viridis	Jewel anemone	2	F to C
Dictyopteris membranacea	A brown seaweed	2	O
Esperiopsis fucorum	Shredded carrot sponge	2	C to A
Bugula	A bryozoan	2	R to F
Nemertesia ramosa	Branched antenna hydroid	2	O to C
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	2	R to F
Bispira volutacornis	Double crowned fan worm	2	O to F
Phoronis	A horseshoe worm	2	O
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	2	R to F
Alcyonium digitatum	Dead man's fingers soft coral	2	R to F
Delesseria sanguinea	Sea beech	2	O to C
Trivia	A cowrie	2	O to F



Nemertesia antennina on The Ledge- K Hiscock



Sketch from dive 98/58

Species sorted by maximum recorded abundance

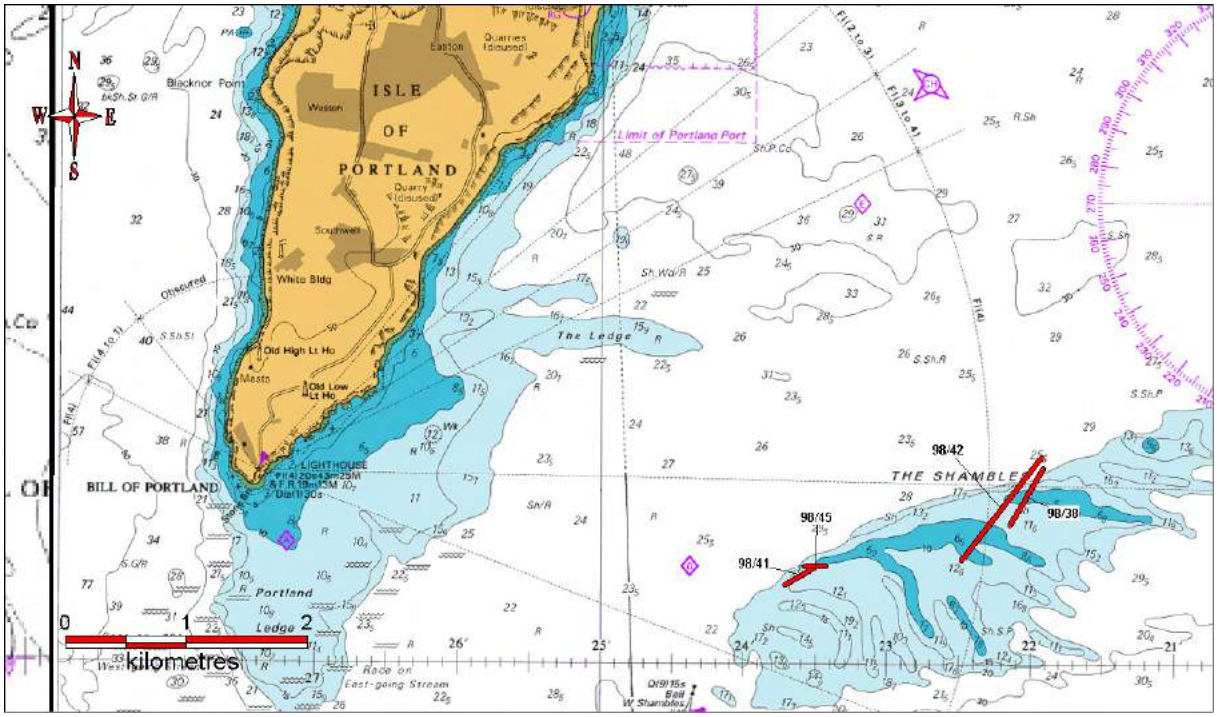
Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Esperiopsis fucorum	Shredded carrot sponge	C to A	C	2
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	R to A	F	3
Aglaophenia pluma	A hydroid	C to A	C	1
Bryozoa	Sea mats / moss animals	A	A	1
Rhodophycota	Red seaweeds	O to A	F	3
Calliblepharis ciliata	Red fringe weed	A	A	1
Max abundance = C				
Hemimycale columella	Pink/orange crater sponge	O to C	F	3
Nemertesia ramosa	Branched antenna hydroid	O to C	F	2
Aglaophenia	A hydroid	C	C	1
Obelia	Kelp fur hydoid	C	C	1
Corynactis viridis	Jewel anemone	F to C	F	2
Flustra foliacea	Hornwrack / leafy bryozoan	O to C	F	3
Delesseria sanguinea	Sea beech	O to C	F	2
Laminaria hyperborea	Cuvie / northern kelp / forest kelp	C	C	1
Max abundance = F				
Halichondria		P to F	R	2
Dysidea fragilis	Goose bump/hedgehog sponge	O to F	O	3
Alcyonium digitatum	Dead man's fingers soft coral	R to F	O	2
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	R to F	O	2
Bispira volutacornis	Double crowned fan worm	O to F	O	2
Galathea	A squat lobster	F	F	1
Trochidae	Topshells	F	F	1
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	R to F	O	2
Trivia	A cowrie	O to F	O	2
Crisiidae	Bryozoans	F	F	1
Electra pilosa	Frost/hairy sea mat	F	F	1
Bugula	A bryozoan	R to F	O	2
Clavelina lepadiformis	Lightbulb seasquirt	F	F	1
Labrus bergylta	Ballan wrasse	F	F	1
Heterosiphonia plumosa	A red seaweed	F	F	1

Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Chordata				
Ctenolabrus rupestris	Goldsinny	R	R	Climate
Crustacea				
Maja squinado	Spiny spider crab	O	O	Climate

The Shambles

Number of Seasearch dives	4
Number of species/groups recorded	8



Physical environment:

Depth range 7-25m

A bank of very clean, highly mobile gravel/coarse sand with shell pieces (mussels and other species) to the east of Portland Bill. The gravel forms waves with approx 1m amplitude and 4-8m wavelength. This area is subject to strong tidal movement.

Habitat/Community types:

Many hermit crabs, *Pagurus bernhardus*, on the seabed and shoals of sandeels just above the seabed. Some barnacles on the hermit crab shells. Apart from a few spider crabs, *Maja squinado*, and a weever fish, there was little other life visible here.

Observations/Features of Interest:

A single turbot, *Psetta maxima*, was recorded here.

Recorded biotopes

Sublittoral sediment

Infralittoral coarse sediment

Sparse fauna on highly mobile sublittoral shingle (cobbles and pebbles)

Circalittoral coarse sediment

Shell gravel from The Shambles

Most frequently recorded species

Number of Seasearch dives	4
Number of species/groups recorded	8

Species	Common name	No. of records	Abundance range
Paguridae	Hermit crab family	3	C to A
Ammodytes	Sand eels	3	C to A
Majidae	Spider crab family	2	O to F
Maja squinado	Spiny spider crab	2	O to F
Trachinidae	Weever fish	1	O
Psetta maxima	Turbot	1	R
Pagurus bernhardus	Large/common/soldier hermit crab	1	A
Cancer pagurus	Edible crab / brown crab /great crab	1	O

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Paguridae	Hermit crab family	C to A	C	3
Pagurus bernhardus	Large/common/soldier hermit crab	A	A	1
Ammodytes	Sand eels	C to A	C	3
Max abundance = F				
Majidae	Spider crab family	O to F	O	2
Maja squinado	Spiny spider crab	O to F	O	2
Max abundance = O				
Cancer pagurus	Edible crab / brown crab /great crab	O	O	1
Trachinidae	Weever fish	O	O	1
Max abundance = R				
Psetta maxima	Turbot	R	R	1

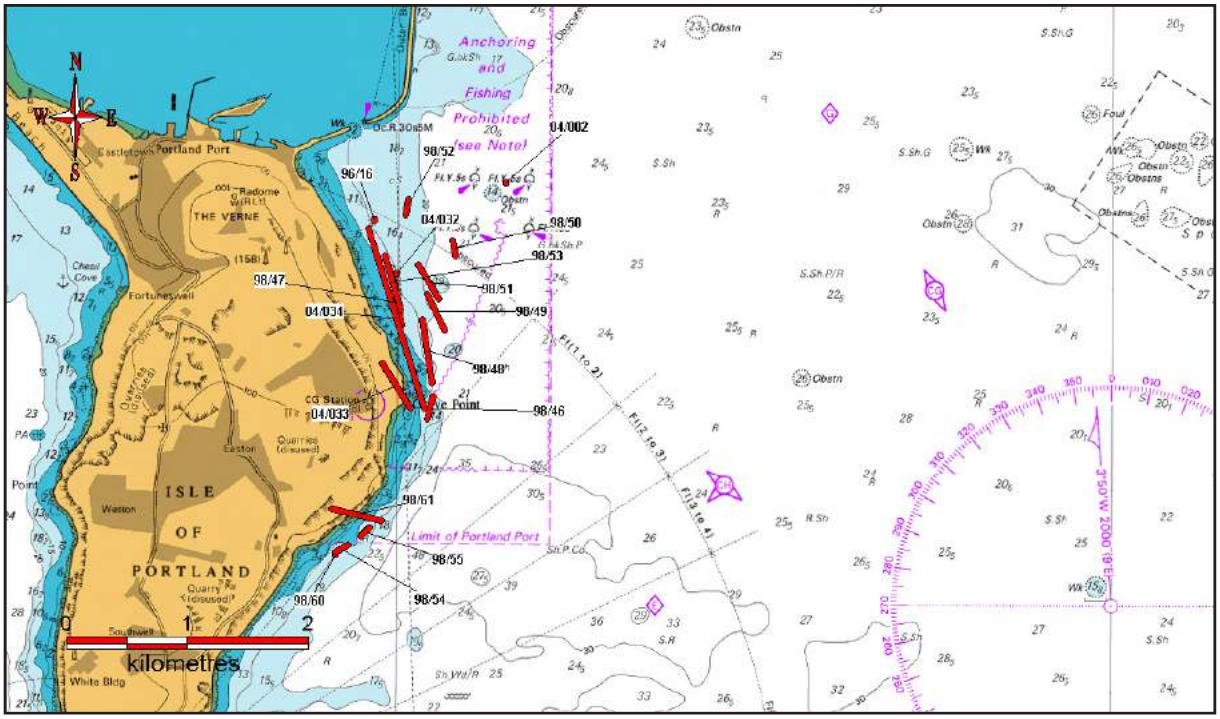
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Crustacea				
Maja squinado	Spiny spider crab	F to O	O	Climate

East Coast Portland

Number of Seasearch dives 17 Number of habitats recorded 21

Number of species/groups recorded 143



Physical environment:

Depth range 5-23m

The shallower sites were mainly large boulders or bedrock with vertical and overhanging surfaces. Patches of clean coarse sand/shell gravel in between with evidence of scouring on lower areas of rock.

This gave way to a level seabed of small boulders and cobbles then to silty/muddy sand with shell fragments forming low, irregular waves in 20-23m.

Habitat/Community types:

Dense kelp forest on the shallower boulders/bedrock, with an understorey of red and brown algae, particularly *Calliblepharis ciliata* and *Heterosiphonia plumosa*. The strawberry sea-squirt, *Distomus variolosus,* was recorded on the kelp stipes. Vertical surfaces were dominated by a bryozoan/hydroid turf and encrusting sponges.

The boulder/cobble area in slightly deeper water supported barnacles, red algae, hydroids and some deadmens fingers and gave way to an area of silty sand/ shell fragments in part dominated by dense beds of the slipper limpet, *Crepidula fornicata*.

Observations/Features of Interest:

This area is part of a “no anchor/no fishing” area due to the presence of cables and buoys. Many dead native oyster shells reported.

Recorded biotopes

Sublittoral sediment

Circalittoral muddy sand

Infralittoral mixed sediment

Crepidula fornicata with ascidians and anenomes on infralittoral coarse mixed sediment

Circalittoral mixed sediment

Infralittoral coarse sediment

Infralittoral rock (and other hard substrata)

Kelp and red seaweeds (moderate energy infralittoral rock)

Laminaria hyperborea on tide-swept, infralittoral rock

Laminaria hyperborea forest, foliose red seaweeds and a diverse fauna on tide-swept upper infralittoral rock

Dense foliose red seaweeds on silty moderately exposed infralittoral rock

Sediment-affected or disturbed kelp and seaweed communities

Saccorhiza polyschides and other opportunistic kelps on disturbed sublittoral fringe rock

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

Kelp with cushion fauna and/or foliose red seaweeds

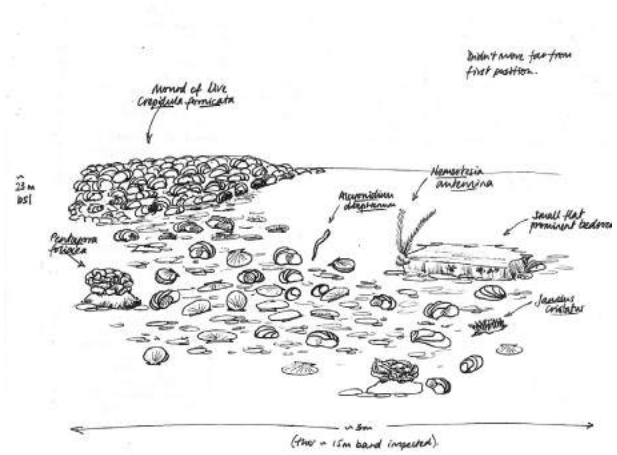
Foliose red seaweeds on exposed lower infralittoral rock

Circalittoral rock (and other hard substrata)

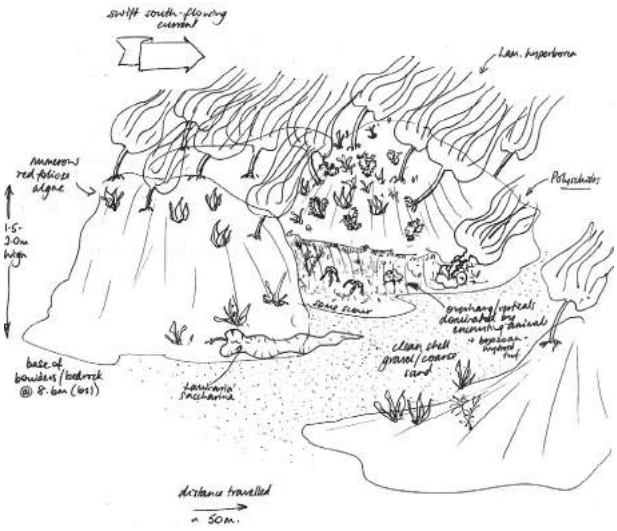
Mixed faunal turf communities

Bryozoan turf and erect sponges on tide-swept circalittoral rock

Mixed turf of bryozoans and erect sponges with *Dysidia fragilis* and *Actinothoe sphyrodeta* on tide-swept wave-exposed circalittoral rock



Sketch from dive 98/50 showing slipper limpet beds



Sketch from dive 98/46 showing kelp on large boulders.bedrock

Most frequently recorded species

Number of Seasearch dives 17

Number of species/groups recorded 143

Species	Common name	No. of records	Abundance range
Pentapora foliacea	Ross coral/potato crisp bryozoan	11	R to F
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	11	R to A
Alcyonium digitatum	Dead man's fingers soft coral	10	P to F
Bispira volutacornis	Double crowned fan worm	10	P to C
Esperiopsis fucorum	Shredded carrot sponge	9	R to S
Ctenolabrus rupestris	Goldsinny	8	R to C
Maja squinado	Spiny spider crab	8	R to O
Labrus bergylta	Ballan wrasse	8	P to O
Dysidea fragilis	Goose bump/hedgehog sponge	8	P to C
Rhodophycota	Red seaweeds	8	R to A
Hemimycale columella	Pink/orange crater sponge	7	R to C
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	7	R to F
Bugula	A bryozoan	6	P to F
Cancer pagurus	Edible crab / brown crab /great crab	6	R to C
Cliona celata	Sulphur sponge / yellow boring sponge	6	P to C
Delesseria sanguinea	Sea beech	5	R to C
Caryophyllia smithii	Devonshire cup coral	5	R to O
Parablennius gattorugine	Tompot blenny	5	P to C
Anemonia viridis	Snakelocks anemone	5	P to O
Calliblepharis ciliata	Red fringe weed	5	F to A
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	5	R to O
Corallinaceae	Pink coralline algae	4	O to A
Alcyonidium diaphanum	Jelly baby/finger bryozoan / sea chervil/ Dogger Bank itch	4	R to F
Aequipecten opercularis	Queen scallop or queenie	4	O to C
Pollachius pollachius	Pollack	4	R to O
Hydrozoa	Hydroids/ sea fir	4	O to C
Pecten maximus	Great scallop	4	R
Crepidula fornicata	Slipper limpet	4	C to A
Dictyota dichotoma	A brown seaweed	3	O to F
Phallusia mammillata	Michelin man seasquirt	3	O
Cirripedia	Barnacles	3	P to C
Flustra foliacea	Hornwrack / leafy bryozoan	3	R to F
Laminaria	Kelp	3	P to A
Majidae	Spider crab family	3	R
Hymeniacidon perleve	Orange lobed sponge	3	R to F
Raspailia ramosa	Chocolate finger/hairy antler sponge	3	R to O
Saccorhiza polyschides	Furbellows	3	O to A
Phoronis	A horseshoe worm	3	R to O

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = S				
Esperiopsis fucorum	Shredded carrot sponge	R to S	F	9
Plocamium cartilagineum	Red comb weed / cockscombe / scarlet hair flag	F to S	C	2
Max abundance = A				
Amphisbetia operculata	A hydroid	A	A	1
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	R to A	F	11
Aglaophenia	A hydroid	O to A	F	2
Pomatoceros lamarcki	Tri-keeled tube worm	C to A	C	2
Crepidula fornicata	Slipper limpet	C to A	C	4
Rhodophycota	Red seaweeds	R to A	F	8
Corallinaceae	Pink coralline algae	O to A	F	4
Calliblepharis ciliata	Red fringe weed	F to A	C	5
Laminaria	Kelp	P to A	O	3
Laminaria hyperborea	Cuvie / northern kelp / forest kelp	C to A	C	2
Saccorhiza polyschides	Furbellows	O to A	F	3
Max abundance = C				
Porifera	Sponges	O to C	F	2
Leucosolenia botryoides	Spikey lace sponge	C	C	1
Tethya aurantium	Golf ball sponge	P to C	O	2
Cliona celata	Sulphur sponge / yellow boring sponge	P to C	O	6
Hemimycale columella	Pink/orange crater sponge	R to C	O	7
Dysidea fragilis	Goose bump/hedgehog sponge	P to C	O	8
Hydrozoa	Hydroids/ sea firs	O to C	F	4
Obelia	Kelp fur hydroid	C	C	1
Bispira volutacornis	Double crowned fan worm	P to C	O	10
Cirripedia	Barnacles	P to C	O	3
Cancer pagurus	Edible crab / brown crab /great crab	R to C	O	6
Aequipecten opercularis	Queen scallop or queenie	O to C	F	4
Crisiidae	Bryozoans	C	C	2
Ctenolabrus rupestris	Goldsinny	R to C	O	8
Parablennius gattorugine	Tompot blenny	P to C	O	5
Palmaria palmata	Dulse /dillisk /crannach	C	C	1
Heterosiphonia plumosa	A red seaweed	F to C	F	2
Delesseria sanguinea	Sea beech	R to C	O	5
Phaeophyceae	Brown seaweeds	C	C	1
Enteromorpha intestinalis	Sea lettuce	C	C	1

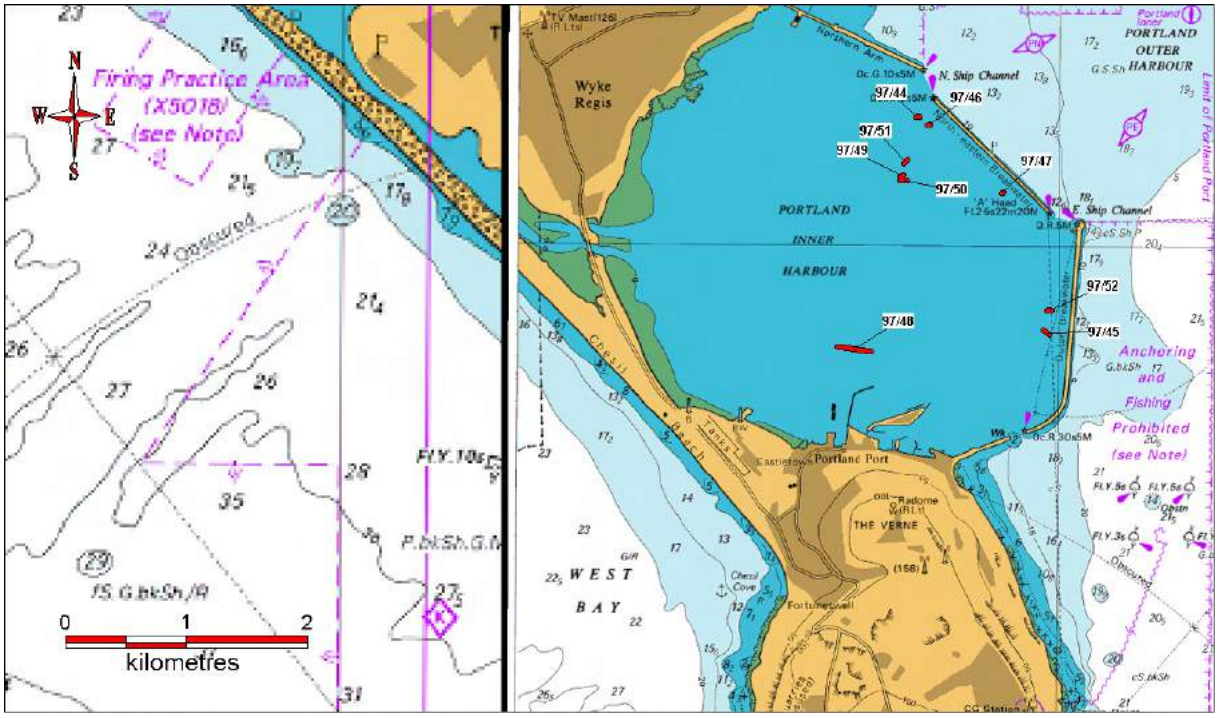
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Algae/Plants				
Phymatolithon calcareum	Maerl	P	P	HAP
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	F to R	O	Climate
Chordata				
Ctenolabrus rupestris	Goldsinny	C to R	O	Climate
Centrolabrus exoletus	Rock cook	O to R	R	Climate
Cnidaria (Corals, anemones, hydroids)				
Anemonia viridis	Snakelocks anemone	O to P	R	Climate
Aiptasia mutabilis	Trumpet anemone	F	F	SOCC NS
Crustacea				
Maja squinado	Spiny spider crab	O to R	R	Climate
Mollusca				
Ostrea edulis	European oyster	R	R	SOCC BAP
Crepidula fornicata	Slipper limpet	A to C	C	Introduced
Tunicata (sea squirts)				
Styela clava	Stalked seasquirt / leathery seasquirt	R	R	Introduced
Phallusia mammillata	Michelin man seasquirt	O	O	SOCC NS

Portland Harbour

Number of Seasearch dives 17

Number of species/groups recorded 24



Physical environment:

Depth range 11-17m

Soft, deep mud, very easy to stir up and lose visibility. *Crepidula* and other shells, along with some man-made objects, forming the only hard surface for colonisation.

Habitat/Community types:

Surface of mud with burrows and tracks. Some of the tracks were attributed to the netted dogwhelk, *Hinia reticulata*, and to *Philina aperta*. Burrows range from 1-6cm wide. Black gobies, *Gobius niger,* were often associated with the larger burrows, though a conger eel was seen in one burrow.

The seapen, *Virgularia mirabilis*, was encountered on all dives and was recorded at densities of up to 20-30 per square metre.

Sea squirts, including the large *Phallusia mammilata*, were growing on clumps of *Crepidula*.

Observations/Features of Interest:

This deep mud is a unique habitat in Dorset and is protected by the breakwater walls as well as by the Isle of Portland. The rare burrowing anemone, *Scolanthus callimorphus*, was recorded here.

Recorded biotopes

Sublittoral sediment

Infralittoral mixed sediment

Crepidula fornicata with ascidians and anenomes on infralittoral coarse mixed sediment

Infralittoral fine mud

Philine aperta and *Virgularia mirabilis* in soft stable infralittoral mud

Burrowing anemone, Scolanthus callimorphus

Black goby, Gobius niger, in mud burrow

Sea pen, Virgularia mirabilis

Greater piepfish, Syngnathus acus

Burrowing worm, Myxicola infundibulum

Spider crab, Majidae

Large sea-squirt, Phallusia mammilata

Most frequently recorded species

Number of Seasearch dives	17
Number of species/groups recorded	24

Species	Common name	No. of records	Abundance range
Virgularia mirabilis	Slender sea pen	8	R to A
Crepidula fornicata	Slipper limpet	6	0 to A
Phallusia mammillata	Michelin man seasquirt	6	R to A
Majidae	Spider crab family	5	R to A
Paguridae	Hermit crab family	4	0
Maja squinado	Spiny spider crab	3	0 to A
Gobius niger	Black goby	2	0

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Virgularia mirabilis	Slender sea pen	R to A	F	8
Majidae	Spider crab family	R to A	F	5
Maja squinado	Spiny spider crab	O to A	F	3
Crepidula fornicata	Slipper limpet	O to A	F	6
Phallusia mammillata	Michelin man seasquirt	R to A	F	6
Max abundance = C				
Hinia reticulata	Netted dogwhelk	C	C	1
Ascidiella	A sea squirt	C	C	1
Gobiidae	Goby family	C	C	1
Max abundance = F				
Pycnogonidae	Sea spiders	F	F	1
Pomatoschistus pictus	Painted goby	F	F	1
Max abundance = O				
Paguridae	Hermit crab family	O	O	4
Liocarcinus	A crab	O	O	1
Philine aperta	White mud slug	O	O	1
Gobius niger	Black goby	O	O	2
Pomatoschistus minutus	Sand goby	O	O	1

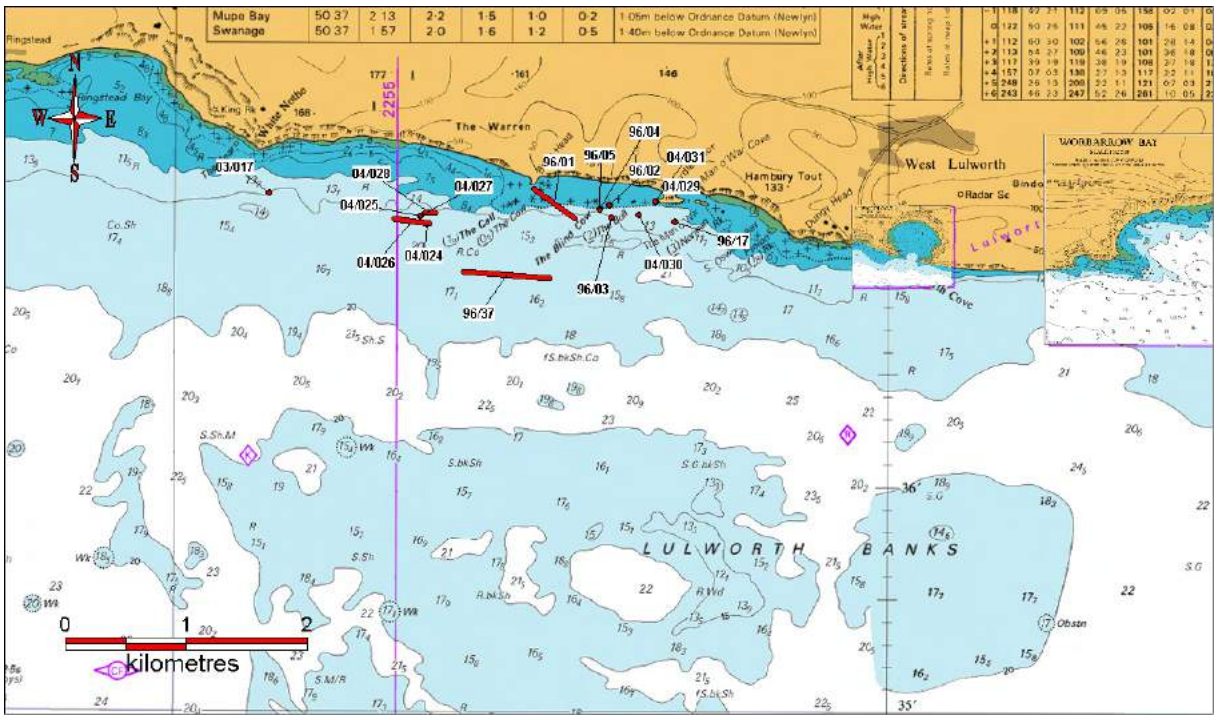
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Cnidaria (Corals, anemones, hydroids)				
Scolanthus callimorphus	Worm anemone	R	R	SOCC NR
Crustacea				
Maja squinado	Spiny spider crab	A to O	F	Climate
Mollusca				
Crepidula fornicata	Slipper limpet	A to O	F	Introduced
Tunicata (sea squirts)				
Phallusia mammillata	Michelin man seasquirt	A to R	F	SOCC NS

White Nothe to Durdle Door

Number of Seasearch dives 16

Number of species/groups recorded 143



Physical environment:

Depth range 9-21m

Inshore sites are mostly large boulders (2-5m) sitting on bedrock overlain with cobbles and coarse sand/shelly gravel. The rocks are pitted and have deep vertical fissures and gullies. Moving south/southwest the boulders thinned out and gave way to waves of shelly gravel, with patches of bare clay occasionally exposed.

Dive 96/37 described a 2m high south-facing reef/rock platform with gravel to the south and broken reef/boulders to the north. All sites described as quite silty.

Habitat/Community types:

The large boulders are topped with kelp down to about 12m then red seaweeds on upper facing surfaces. Overhangs with sponges incl. *Pachymatisma johnstonia*, deadmens fingers, anemones, *Aiptasia mutabilis* and *Actinothoe sphyrodeta*, hydroids and *Bispira* fanworms.

Most dives report little life from the waved sand/shell gravel other than occasional burrows, approx. 2cm diameter but dives in late May in 2004 recorded large numbers of the burrowing sea-cucumber, *Neopentadactyla mixta*, at densities of up to 20 per square metre.

The reef and surrounding boulder area in dive 96/37 is covered in a turf of short red algae with hydroids, sponges, cup corals and bryozoans, with frequent, large ross coral, *Pentapora foliacea*, colonies.

Observations/Features of Interest:

The silty gravel between boulders and along the edge of the reef at site 96/37 is reported to contain 5-10% live maerl - nodules of a slow growing calcified red seaweed. Hermit crabs were reported living within the folds of large ross coral colonies.

Recorded biotopes

Sublittoral sediment

Circalittoral muddy sand

Circalittoral coarse sediment

Neopentadactyla mixta in circalittoral shell gravel or coarse sand

Infralittoral rock (and other hard substrata)

Kelp and red seaweeds (moderate energy infralittoral rock)

Dense foliose red seaweeds on silty moderately exposed infralittoral rock

Sediment-affected or disturbed kelp and seaweed communities

Halidrys siliquosa and mixed kelps on tide-swept infralittoral rock with coarse sediment

Kelp with cushion fauna and/or foliose red seaweeds

Laminaria hyperborea with dense foliose red seaweeds on exposed infralittoral rock

Laminaria hyperborea park with dense foliose red seaweeds on exposed lower infralittoral rock

Laminaria hyperborea forest with dense foliose red seaweeds on exposed upper infralittoral rock

Foliose red seaweeds on exposed lower infralittoral rock

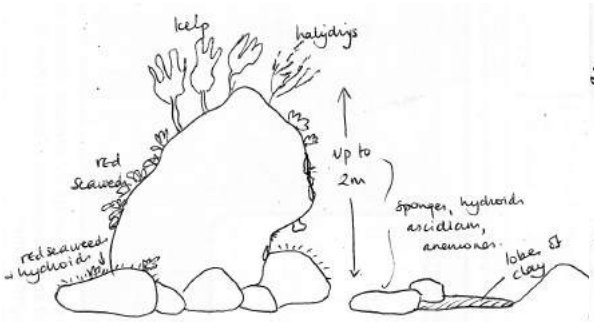
Circalittoral rock (and other hard substrata)

Echinoderms and crustose communities

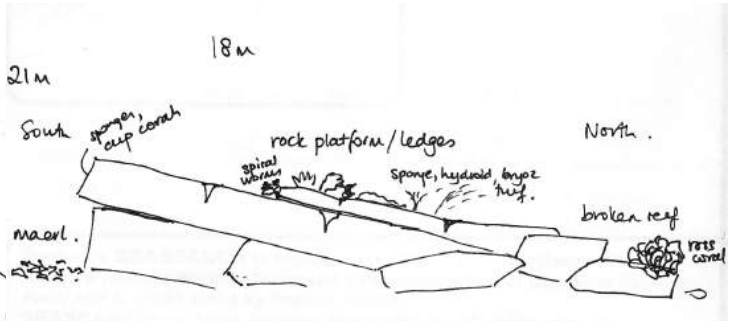
Caryophyllia smithii, sponges and crustose communities on wave-exposed circalittoral rock

Mixed faunal turf communities

Bryozoan turf and erect sponges on tide-swept circalittoral rock



Sketch from dive 96/17



Sketch from dive 96/37

Most frequently recorded species

Number of Seasearch dives	16
Number of species/groups recorded	143

Species	Common name	No. of records	Abundance range
Bispira volutacornis	Double crowned fan worm	10	P to C
Rhodophycota	Red seaweeds	10	P to C
Cancer pagurus	Edible crab / brown crab /great crab	8	P to F
Maja squinado	Spiny spider crab	8	R to C
Pecten maximus	Great scallop	7	P to O
Esperiopsis fucorum	Shredded carrot sponge	7	R to C
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	6	P to O
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	6	P to F
Alcyonium digitatum	Dead man's fingers soft coral	6	P to F
Pachymatisma johnstonia	Elephant's ear sponge	6	P to C
Aiptasia mutabilis	Trumpet anemone	6	P to C
Neopentadactyla mixta	Gravel sea cucumber	6	R to S
Lanice conchilega	Sandmason worm	5	R to F
Labrus mixtus	Cuckoo wrasse	5	P to O
Clavelina lepadiformis	Lightbulb seasquirt	5	R to O
Cliona celata	Sulphur sponge / yellow boring sponge	5	R to O
Paguridae	Hermit crab family	5	P to C
Hemimycale columella	Pink/orange crater sponge	5	O to A
Botryllus schlosseri	Star seasquirt	5	P to F
Dysidea fragilis	Goose bump/hedgehog sponge	5	R to C
Porifera indet.	Sponge crusts	5	P to O
Scyliorhinus canicula	Lesser spotted dogfish / cat shark	5	P to R
Anemonia viridis	Snakelocks anemone	5	O to C
Tethya aurantium	Golf ball sponge	5	R to C

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = S				
Neopentadactyla mixta	Gravel sea cucumber	R to S	F	6
Max abundance = A				
Hymeniacidon perleve	Orange lobed sponge	F to A	C	2
Hemimycale columella	Pink/orange crater sponge	O to A	F	5
Hydrozoa	Hydroids/ sea firs	P to A	O	4
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	O to A	F	4
Aglaophenia pluma	A hydroid	O to A	F	1
Calliblepharis ciliata	Red fringe weed	C to A	C	2
Plocamium cartilagineum	Red comb weed / cockscombe / scarlet hair flag	O to A	F	1
Laminaria	Kelps	R to A	F	3
Laminaria hyperborea	Cuvie / northern kelp / forest kelp	P to A	O	4
Max abundance = C				
Leucosolenia botryoides	Spikey lace sponge	C	C	1
Pachymatisma johnstonia	Elephant's ear sponge	P to C	O	6
Tethya aurantium	Golf ball sponge	R to C	O	5
Polymastia mamillaris	Chimney sponge	R to C	O	2
Esperiopsis fucorum	Shredded carrot sponge	R to C	O	7
Dysidea fragilis	Goose bump/hedgehog sponge	R to C	O	5
Tubularia	A hydroid	C	C	1
Aglaophenia	A hydroid	F to C	F	2
Obelia geniculata	Kelp fur hydroid	O to C	F	1
Anemonia viridis	Snakelocks anemone	O to C	F	5
Aiptasia mutabilis	Trumpet anemone	P to C	O	6
Cereus pedunculatus	Daisy anemone	O to C	F	2
Bispira volutacornis	Double crowned fan worm	P to C	O	10
Salmacina dysteri	Spaghetti/coral worm	R to C	O	4
Paguridae	Hermit crab family	P to C	O	5
Maja squinado	Spiny spider crab	R to C	O	8
Gibbula	Topshells	R to C	O	2
Ensis	Razor shell	C	C	1
Bugula flabellata	Bugle bryozoan	C	C	1
Bugula plumosa	Tapered bottle brush bryozoan	C	C	1
Cellepora pumicosa	Orange pumice bryozoan	C	C	1
Phoronis	A horseshoe worm	R to C	O	2
Aplidium punctum	Single spotted colonial seasquirt	F to C	F	3
Diplosoma listerianum	Grey slime seasquirt	C	C	1
Trisopterus luscus	Bib/ pouting	O to C	F	2
Centrolabrus exoletus	Rock cook	P to C	O	3
Ctenolabrus rupestris	Goldsinny	P to C	O	4
Labrus bergylta	Ballan wrasse	R to C	O	4
Pomatoschistus	A goby	R to C	O	3
Rhodophycota	Red seaweeds	P to C	O	10

Corallinaceae		O to C	F	3
Phymatolithon calcareum	Maerl	P to C	O	3
Chondrus crispus	Carragheen / Irish moss	C	C	1
Delesseria sanguinea	Sea beech	O to C	F	2
Halidrys siliquosa	Pod weed / sea oak	P to C	O	4

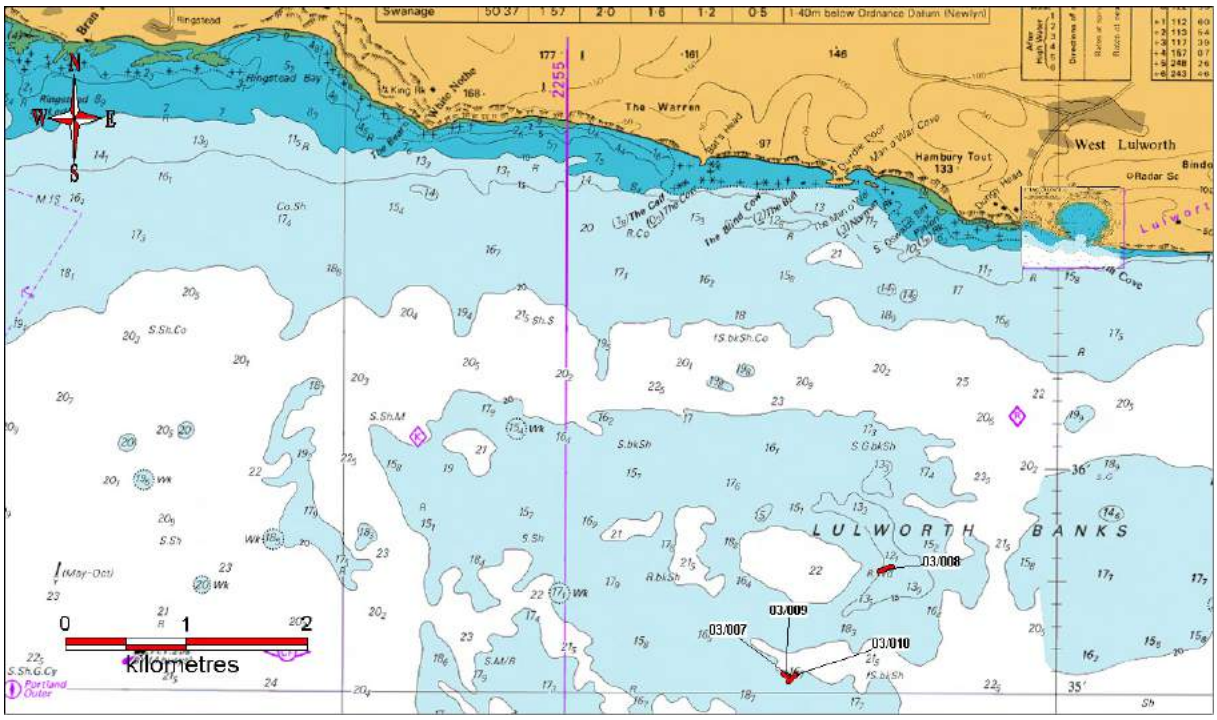
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Algae/Plants				
Phymatolithon calcareum	Maerl	C to P	O	HAP
Annelida (Worms)				
Serpula vermicularis	Organ pipe worm	R	R	HAP
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	F to R	O	Climate
Chordata				
Ctenolabrus rupestris	Goldsinny	C to P	O	Climate
Centrolabrus exoletus	rock cook	C to P	O	Climate
Cnidaria (Corals, anemones, hydroids)				
Anemonia viridis	Snakelocks anemone	C to O	F	Climate
Aiptasia mutabilis	Trumpet anemone	C to P	O	SOCC NS
Crustacea				
Maja squinado	Spiny spider crab	C to R	O	Climate
Mollusca				
Ostrea edulis	European oyster	R	R	SOCC BAP
Tunicata (sea squirts)				
Phallusia mammillata	Michelin man seasquirt	R	R	SOCC NS

Lulworth Banks

Number of Seasearch dives 4

Number of species/groups recorded 76



Physical environment:

Depth range 14-20m

The Lulworth Banks is an area of shallow seabed, rising to about 12m, rising from about 20m. This seems to be a largely flat bedrock seabed with ledges up to 1.5m high but mostly covered with a coarse sediment of broken shell, pebbles, gravel and sand.

Habitat/Community types:

Flat bedrock dominated by bryozoans *(Crisia, Flustra foliacea, Alcyonidium diaphanum*), the sea squirt, *Stolonica socialis* and some red algae. Ross corals, *Pentapora foliacea* and sponges *Pachymatisma johnstonia, Cliona celata, Polymastia* and *Axinella* were recorded here as was the soft coral, *Alcyonium digitatum*. Small ledges with crevices and overhangs offer protection for crabs and squat lobsters.

Observations/Features of Interest:

A long species list for this area reflects the experience of the recorders rather than the relative richness of the site. The grey gurnard, *Eutrigla gurnardus*, was recorded here.

Recorded biotopes

Sublittoral sediment

Circalittoral coarse sediment

Circalittoral rock (and other hard substrata)

Mixed faunal turf communities

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

Flustra foliacea, small solitary and colonial ascidians on tide-swept circalittoral bedrock or boulders

Flustra foliacea and colonial ascidians on tide-swept exposed circalittoral mixed substrata

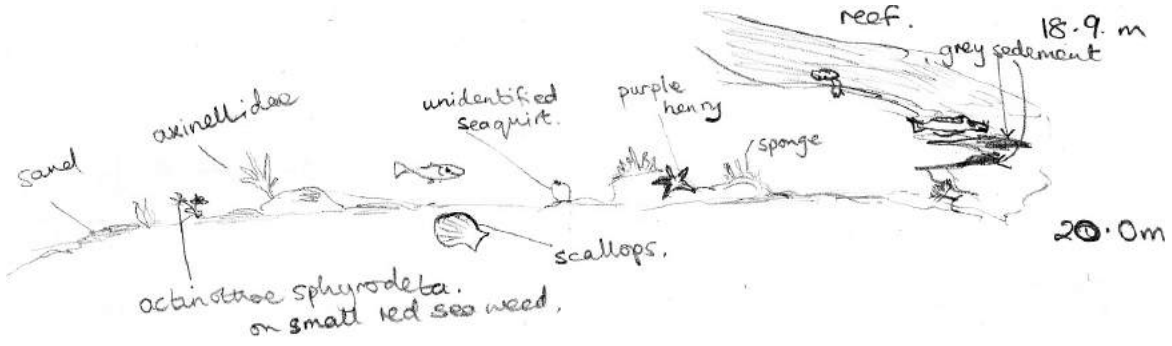
Circalittoral caves and overhangs

Most frequently recorded species

Number of Seasearch dives 4

Number of species/groups recorded 76

Species	Common name	No. of records	Abundance range
Henricia oculata	Bloody Henry starfish	4	R to O
Alcyonium digitatum	Dead man's fingers soft coral	3	R to F
Labrus mixtus	Cuckoo wrasse	3	O to A
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	3	O
Cancer pagurus	Edible crab / brown crab /great crab	3	R
Pecten maximus	Great scallop	3	O to F
Cliona celata	Sulphur sponge / yellow boring sponge	3	R to O
Pentapora foliacea	Ross coral/potato crisp bryozoan	3	R to O
Crisia	White claw sea moss/ Crispy threads bryozoan	2	F
Labrus bergylta	Ballan wrasse	2	R to F
Heterosiphonia plumosa	A red seaweed	2	O to F
Halecium halecinum	Herringbone hydroid	2	R to O
Flustra foliacea	Hornwrack / leafy bryozoan	2	O to C
Esperiopsis fucorum	Shredded carrot sponge	2	R to O
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	2	F to C
Dictyopteris membranacea	A brown seaweed	2	O to F
Crepidula fornicata	Slipper limpet	2	R to O
Corallinaceae	Pink coralline algae	2	O to F
Ciocalypta penicillus	Tapered chimney sponge	2	R to O
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	2	O
Calliblepharis ciliata	Red fringe weed	2	F to C
Bowerbankia citrina	A bryozoan	2	F to C
Bispira volutacornis	Double crowned fan worm	2	R to O
Dysidea fragilis	Goose bump/hedgehog sponge	2	R to O
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	2	O
Polymastia boletiformis	Chimney ball sponge	2	O to F
Polymastia mamillaris	Chimney sponge	2	O
Trisopterus luscus	Bib/ pouting	2	O
Pachymatisma johnstonia	Elephant's ear sponge	2	O to C
Stolonica socialis	Baked bean / sociable seasquirt / orange sea	2	F to C
Hemimycale columella	Pink/orange crater sponge	2	R to O



Sketch from dive 03/007

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Bryozoa	Sea mats / moss animals	A	A	1
Labrus mixtus	Cuckoo wrasse	O to A	F	3
Max abundance = C				
Pachymatisma johnstonia	Elephant's ear sponge	O to C	F	2
Hydrozoa	Hydroids/ sea firs	C	C	1
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	F to C	F	2
Polinices pulchellus	Common necklace shell	O to C	F	1
Bowerbankia citrina	A bryozoan	F to C	F	2
Flustra foliacea	Hornwrack / leafy bryozoan	O to C	F	2
Stolonica socialis	Baked bean / sociable seasquirt / orange sea grapes	F to C	F	2
Calliblepharis ciliata	Red fringe weed	F to C	F	2
Phyllophora crispa	A red seaweed	C	C	1
Max abundance = F				
Polymastia boletiformis	Chimney ball sponge	O to F	O	2
Alcyonium digitatum	Dead man's fingers soft coral	R to F	O	3
Isozoanthus sulcatus	Ginger/chocolate tinies	F	F	1
Pecten maximus	Great scallop	O to F	O	3
Crisia	White claw sea moss/ crispy thread bryozoan	F	F	2
Alcyonidium diaphanum	Jelly baby/finger bryozoan / sea chervil/ Dogger Bank itch	F	F	1
Cellaria fistulosa	A bryozoan	F	F	1
Ophiura	Brittlestars	F	F	1
Labrus bergylta	Ballan wrasse	R to F	O	2
Gobiidae	Goby family	F	F	1
Corallinaceae	Pink coralline algae	O to F	O	2
Heterosiphonia plumosa	A red seaweed	O to F	O	2
Dictyopteris membranacea	A brown seaweed	O to F	O	2

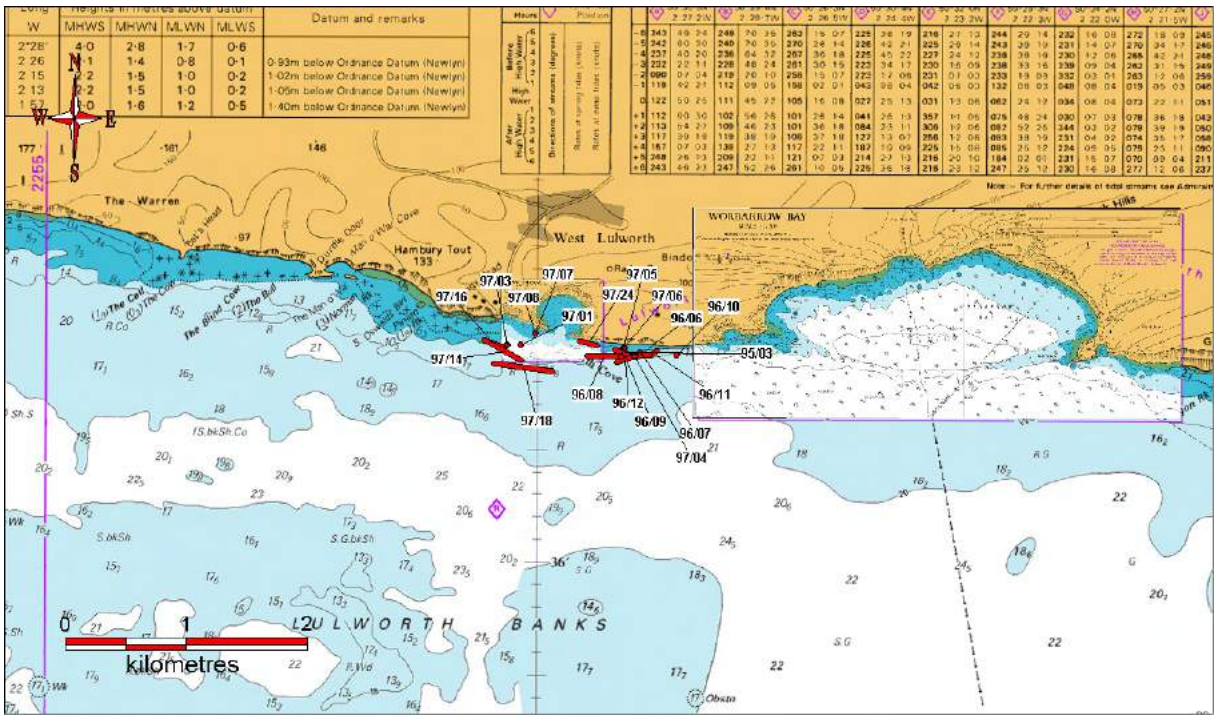
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	0 to R	R	Climate
Chordata				
Pleuronectes platessa	Plaice	R	R	SOCC BAP
Ctenolabrus rupestris	Goldsinny	0	0	Climate
Centrolabrus exoletus	Rock cook	0	0	Climate
Cnidaria (Corals, anemones, hydroids)				
Aiptasia mutabilis	Trumpet anemone	R	R	SOCC NS
Crustacea				
Maja squinado	Spiny spider crab	R	R	Climate
Mollusca				
Crepidula fornicata	Slipper limpet	0 to R	R	Introduced

Off Lulworth Cove

Number of Seasearch dives 18

Number of species/groups recorded 74



Physical environment:

Depth range 9-21m

Inshore sites are mostly large boulders (2-5m) sitting on bedrock overlain with cobbles and coarse sand/shelly gravel. The rocks are pitted and have deep vertical fissures and gullies. Moving south/southwest the boulders thinned out and gave way to waves of shelly gravel, with patches of bare clay occasionally exposed.

Dive 96/37 described a 2m high south-facing reef/rock platform with gravel to the south and broken reef/boulders to the north. All sites described as quite silty.

Habitat/Community types:

The large boulders are topped with kelp down to about 12m then red seaweeds on upper facing surfaces. Overhangs with sponges incl. *Pachymatisma johnstonia*, deadmens fingers, anemones, *Aiptasia mutabilis* and *Actinothoe sphyrodeta*, hydroids and *Bispira* fanworms.

Most dives report little life from the waved sand/shell gravel other than occasional burrows, approx. 2cm diameter but dives in late May in 2004 recorded large numbers of the burrowing sea-cucumber, *Neopentadactyla mixta*, at densities of up to 20 per square metre.

The reef and surrounding boulder area in dive 96/37 is covered in a turf of short red algae with hydroids, sponges, cup corals and bryozoans, with frequent, large ross coral, *Pentapora foliacea*, colonies.

Observations/Features of Interest:

The silty gravel between boulders and along the edge of the reef at site 96/37 is reported to contain 5-10% live maerl - nodules of a slow growing calcified red seaweed. Hermit crabs were reported living within the folds of large ross coral colonies.

Recorded biotopes

Sublittoral sediment

Infralittoral mixed sediment

Circalittoral mixed sediment

Circalittoral coarse sediment

Neopentadactyla mixta in circalittoral shell gravel or coarse sand

Infralittoral rock (and other hard substrata)

Kelp and red seaweeds (moderate energy infralittoral rock)

Dense foliose red seaweeds on silty moderately exposed infralittoral rock

Laminaria hyperborea and foliose red seaweeds on moderately exposed infralittoral rock

Laminaria hyperborea park and foliose red seaweeds on moderately exposed lower infralittoral rock

Kelp with cushion fauna and/or foliose red seaweeds

Foliose red seaweeds on exposed lower infralittoral rock

Laminaria hyperborea with dense foliose red seaweeds on exposed infralittoral rock

Laminaria hyperborea forest with dense foliose red seaweeds on exposed upper infralittoral rock

Laminaria hyperborea park with dense foliose red seaweeds on exposed lower infralittoral rock

Sediment-affected or disturbed kelp and seaweed communities

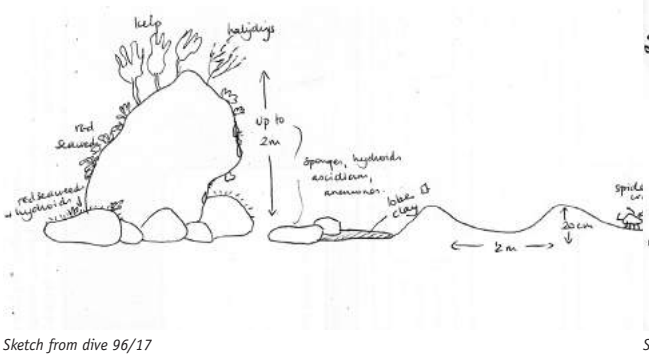
Halidrys siliquosa and mixed kelps on tide-swept infralittoral rock with coarse sediment

Circalittoral rock (and other hard substrata)

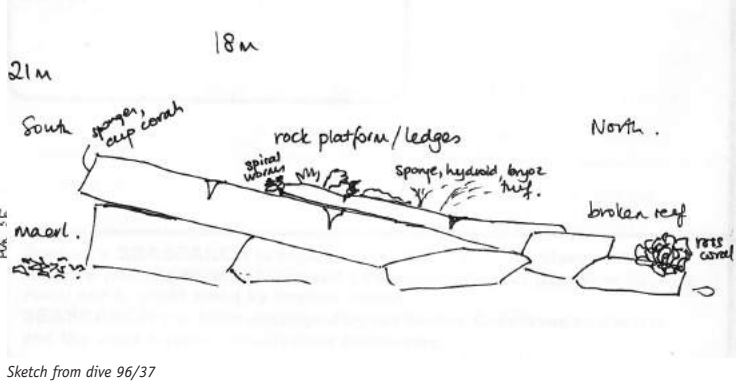
Most frequently recorded species

Number of Seasearch dives	18
Number of species/groups recorded	74

Species	Common name	No. of records	Abundance range
Halidrys siliquosa	Pod weed / sea oak	12	P to A
Cancer pagurus	Edible crab / brown crab /great crab	12	P to O
Rhodophycota	Red seaweeds	10	P to A
Anemonia viridis	Snakelocks anemone	8	P to F
Laminaria hyperborea	Cuvie / northern kelp / forest kelp	8	P to A
Labrus bergylta	Ballan wrasse	8	P to O
Pachymatisma johnstonia	Elephant's ear sponge	7	P to F
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	6	P to O
Corallinaceae	Pink coralline algae	5	P to A
Holothurioidea	Sea cucmber	5	P to C
Maja squinado	Spiny spider crab	4	P to R
Eupolymnia nebulosa	Strawberry worm	4	P to F
Paguridae	Hermit crab family	4	P to O
Membranipora membranacea	Kelp sea mat	4	P
Bispira volutacornis	Double crowned fan worm	3	P to F
Pectinidae	Scallop family	3	P to F
Majidae	Spiny crab family	3	P to R
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	3	P to R
Lanice conchilega	Sandmason worm	3	P to R
Cereus pedunculatus	Daisy anemone	3	P to F
Porifera	Sponges	3	P to C
Porifera indet.	Sponge crusts	3	O
Labrus mixtus	Cuckoo wrasse	3	P
Hydrozoa	Hydroids/ sea firs	3	P to A
Esperiopsis fucorum	Shredded carrot sponge	3	P to R



Sketch from dive 96/17



Sketch from dive 96/37

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Hydrozoa	*Hydroids/* sea firs	P to A	O	3
Pholadidae	Piddocks	P to A	O	2
Bryozoa	Sea mats / moss animals	A	A	1
Rhodophycota	Red seaweeds	P to A	O	10
Corallinaceae	Pink coralline algae	P to A	O	5
Laminaria hyperborea	Cuvie / northern kelp / forest kelp	P to A	O	8
Halidrys siliquosa	Pod weed / sea oak	P to A	O	12
Max abundance = C				
Porifera	Sponges	P to C	O	3
Holothurioidea	Sea cucmbers	P to C	O	5
Botryllus schlosseri	Star seasquirt	P to C	O	2
Laminaria digitata	Paddle weed / oar weed / tangle/ kelp	C	C	1
Max abundance = F				
Pachymatisma johnstonia	Elephant's ear sponge	P to F	R	7
Anemonia viridis	Snakelocks anemone	P to F	R	8
Cereus pedunculatus	Daisy anemone	P to F	R	3
Eupolymnia nebulosa	Strawberry worm	P to F	R	4
Bispira volutacornis	Double crowned fan worm	P to F	R	3
Pectinidae	Scallop family	P to F	R	3

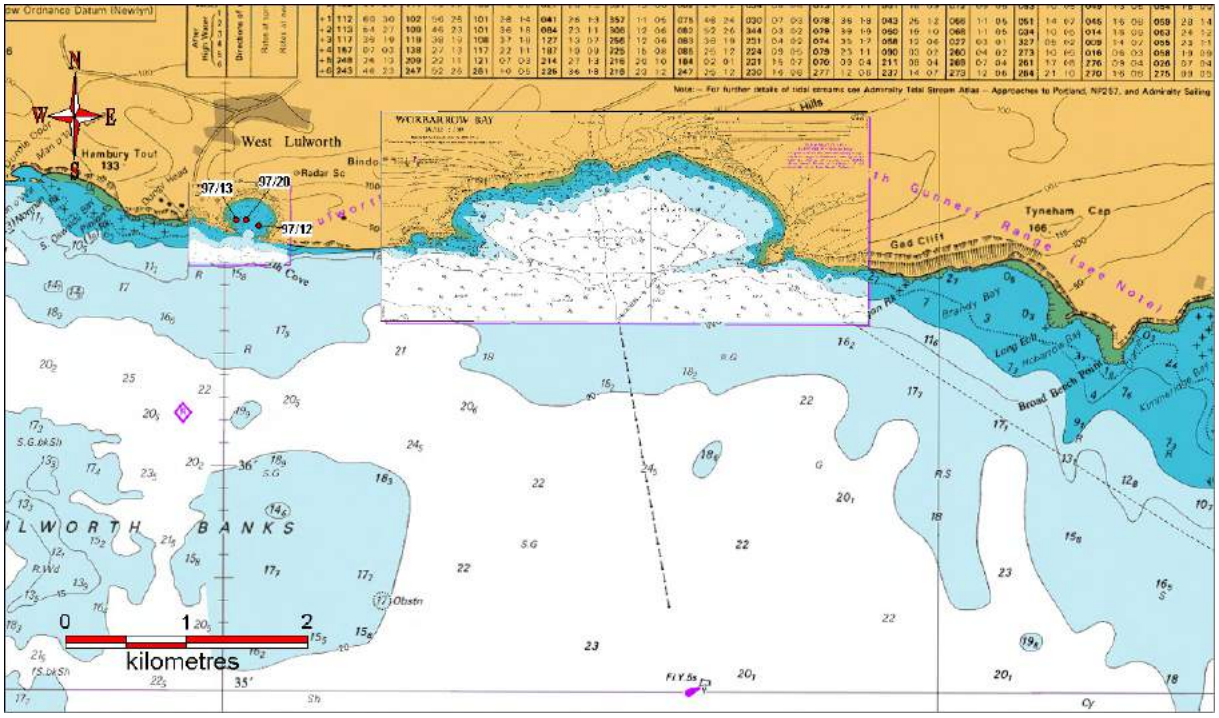
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Algae/Plants				
Zanardinia prototypus	Penny weed	O	O	SOCC NS Climate
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	R to P	P	Climate
Chordata				
Ctenolabrus rupestris	Goldsinny	R to P	P	Climate
Cnidaria (Corals, anemones, hydroids)				
Anemonia viridis	Snakelocks anemone	F to P	R	Climate
Aiptasia mutabilis	Trumpet anemone	P	P	SOCC NS
Crustacea				
Maja squinado	Spiny spider crab	R to P	P	Climate

Lulworth Cove

Number of Seasearch dives 3

Number of species/groups recorded 22



Physical environment:

Depth range 0-5m

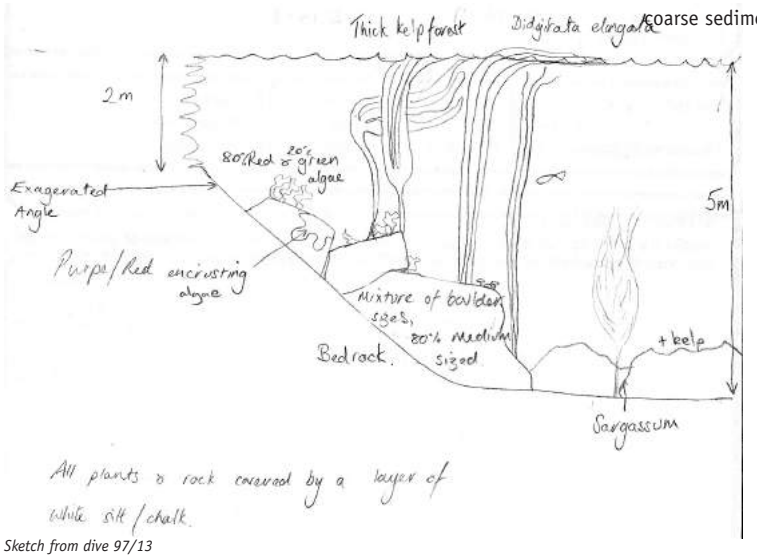
The centre of the cove is rounded cobbles in clean, coarse sand with patches of clear sand. On both sides of the bay the seabed is mostly bedrock. Divers reported noticeable wave surge and poor visibility, with a covering of silt over seabed and seaweed.

Large mooring chains present.

Habitat/Community types:

Thick kelp forest on the bedrock with red algal turf and encrusting corallines on the underlying bedrock. Other large seaweeds include *Sargassum muticum, Chorda filum, Himanthalia elongata* and *Halidrys siliquosa*. Fish species include corkwing and ballan wrasse, pollack and sea scorpion.

Observations/Features of Interest:



Sketch from dive 97/13

Recorded biotopes

Sublittoral sediment

Infralittoral mixed sediment

Kelp and seaweed communities on sublittoral sediment

Infralittoral rock (and other hard substrata)

Kelp and red seaweeds (moderate energy infralittoral rock)

Laminaria hyperborea and foliose red seaweeds on moderately exposed infralittoral rock

Laminaria hyperborea forest and foliose red seaweeds on moderately exposed upper infralittoral rock

Sediment-affected or disturbed kelp and seaweed communities

Halidrys siliquosa and mixed kelps on tide-swept infralittoral rock with coarse sediment

Most frequently recorded species

Number of Seasearch dives 3

Number of species/groups recorded 22

Species	Common name	No. of records	Abundance range
Spirorbis	A posthorn worm	2	P
Corallinaceae	Pink coralline algae	2	P to F
Laminaria digitata	Paddle weed / oar weed / tangle/ kelp	2	P to A
Laminaria	Kelp	1	P
Chondrus crispus	Carragheen / Irish moss	1	O
Chorda filum	Bootlace weed / mermaid's tresses / sea lace / dead man's rope	1	O
Cottidae	Sea scorpion	1	R
Crenilabrus melops	Corkwing	1	O
Cystoseira	A brown seaweed	1	C
Dynamene	An isopod	1	P
Gibbula cineraria	Grey top shell	1	O
Anemonia viridis	Snakelocks anemone	1	P
Labrus bergylta	Ballan wrasse	1	O
Ulva lactuca	A green seaweed	1	P
Laminaria hyperborea	Cuvie / northern kelp / forest kelp	1	A
Laminaria saccharina	Sugar kelp / sea belt	1	C
Plocamium cartilagineum	Red comb weed / cockscombe / scarlet hair flag	1	P
Pollachius pollachius	Pollack	1	O
Sargassum muticum	Japweed / wireweed	1	P
Sphaerococcus coronopifolius	A red seaweed	1	P
Ulva	A green seaweed	1	O
Halidrys siliquosa	Pod weed / sea oak	1	C

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Laminaria digitata	Paddle weed / oar weed / tangle/ kelp	P to A	O	2
Laminaria hyperborea	Cuvie / northern kelp / forest kelp	A	A	1
Max abundance = C				
Laminaria saccharina	Sugar kelp / sea belt	C	C	1
Cystoseira		C	C	1
Halidrys siliquosa	Pod weed / sea oak	C	C	1
Max abundance = F				
Corallinaceae	Pink coralline algae	P to F	R	2
Max abundance = O				
Gibbula cineraria	Grey top shell	O	O	1
Pollachius pollachius	Pollack	O	O	1
Crenilabrus melops	Corkwing	O	O	1
Labrus bergylta	Ballan wrasse	O	O	1
Chondrus crispus	Carragheen / Irish moss	O	O	1
Chorda filum	Bootlace weed / mermaid's tresses / sea lace / dead man's rope	O	O	1
Ulva	A green seaweed	O	O	1

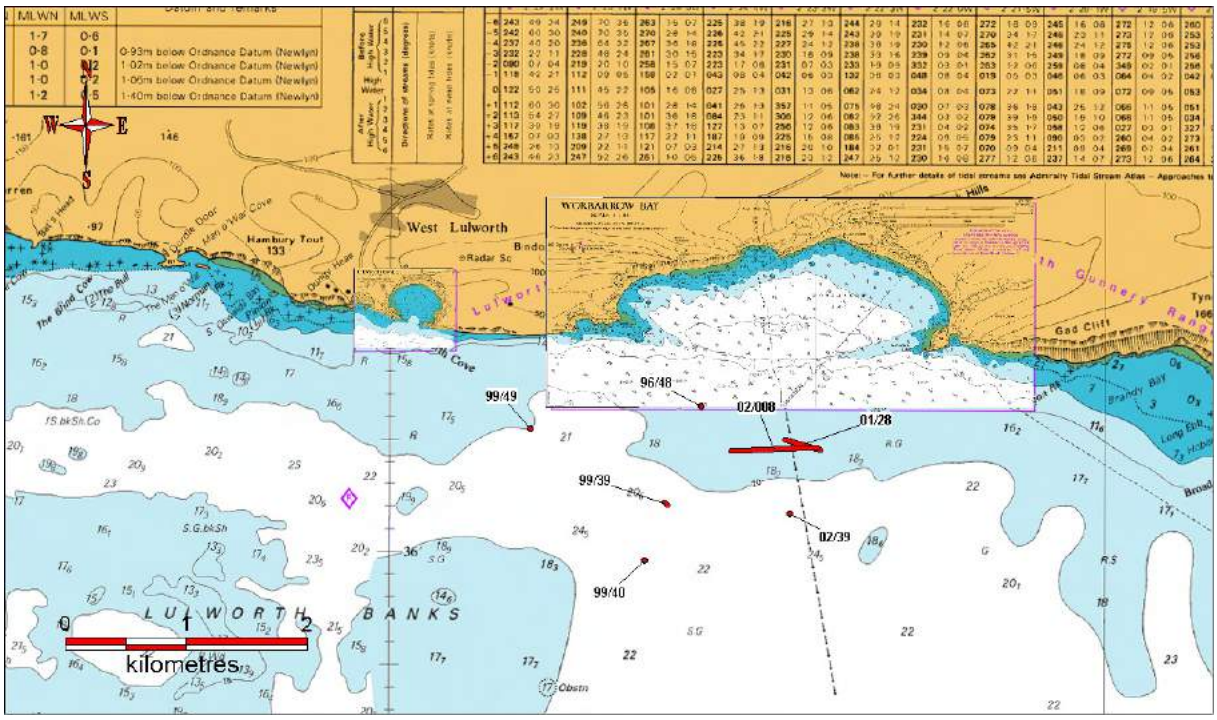
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Algae/Plants				
Sargassum muticum	Japweed / wireweed	P	P	Introduced
Cnidaria (Corals, anemones, hydroids)				
Anemonia viridis	Snakelocks anemone	P	P	Climate

Off Worbarrow Bay

Number of Seasearch dives 7

Number of species/groups recorded 84



Physical environment:

Depth range 14-25m

Most dives here after the year 2000 were targeting rocky reefs shown up by sidescan sonar. These reefs run in a series of arcs broadly concentric with the main reef shown running across Worbarrow Bay.

The more prominent reefs rise gently out of the shelly gravel sediment and generally finish in a short broken boulder slope. These reefs are rarely more than 5m wide. In between, there are many less prominent reefs, often just proud of the sediment, or flat bedrock with a thin covering of gravel.

In between the shelly gravel, usually with whole shell/ shell pieces, is often formed into waves.

Habitat/Community types:

Gravel/shell sand areas with siphons, thought to be razor shells (empty shells seen on surface) and the burrowing sea-cucumber, N*eopentadactyla mixta*. Patches of slipper limpets, *Crepidula fornicata*, noted on dive 96/48. Large numbers of queen scallops often encountered. A small amount of live maerl was recorded from dives 02/39 and 99/39.

Dragonets, sand gobies and rays, (*Raja clavata* and *Raja montagui*) recorded on sediment areas.

Life associated with the rocky areas seems dictated by the shape/direction of the reef - the reef at dive 99/40 faces east, the top of the reef covered with shelly gravel but the boulder slope sheltering large numbers of crustaceans. The reef at 99/49 faces south with branching sponges (*Axinella* sp.) and seafans (*Eunicella verrucosa*) on the reef top.

Observations/Features of Interest:

The silty gravel between boulders and along the edge of the reef at site 96/37 is reported to contain 5-10% live maerl - nodules of a slow growing calcified red seaweed. Hermit crabs were reported living within the folds of large ross coral colonies.

Recorded biotopes

Sublittoral sediment

Circalittoral coarse sediment

Neopentadactyla mixta in circalittoral shell gravel or coarse sand

Infralittoral rock (and other hard substrata)

Kelp with cushion fauna and/or foliose red seaweeds

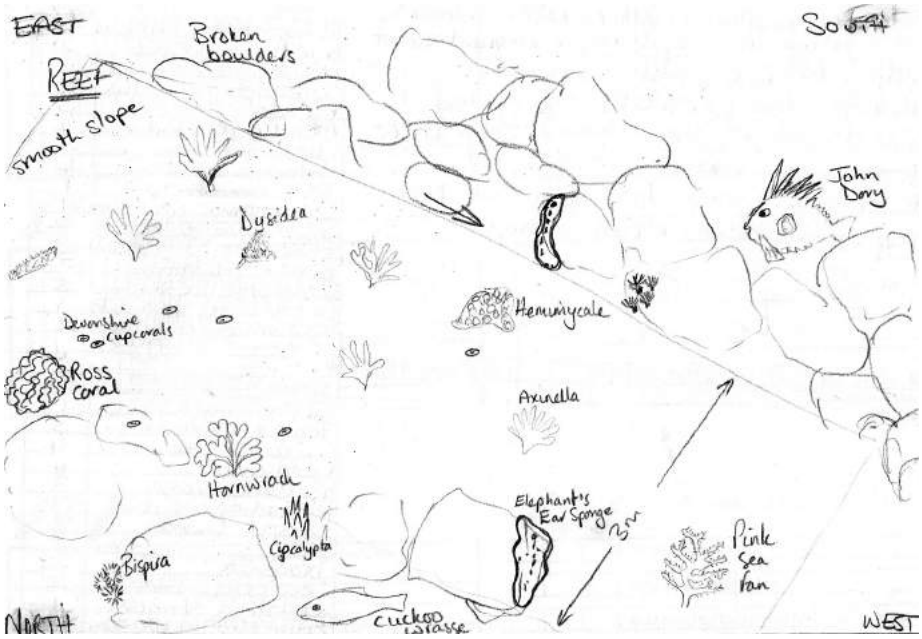
Foliose red seaweeds on exposed lower infralittoral rock

Circalittoral rock (and other hard substrata)

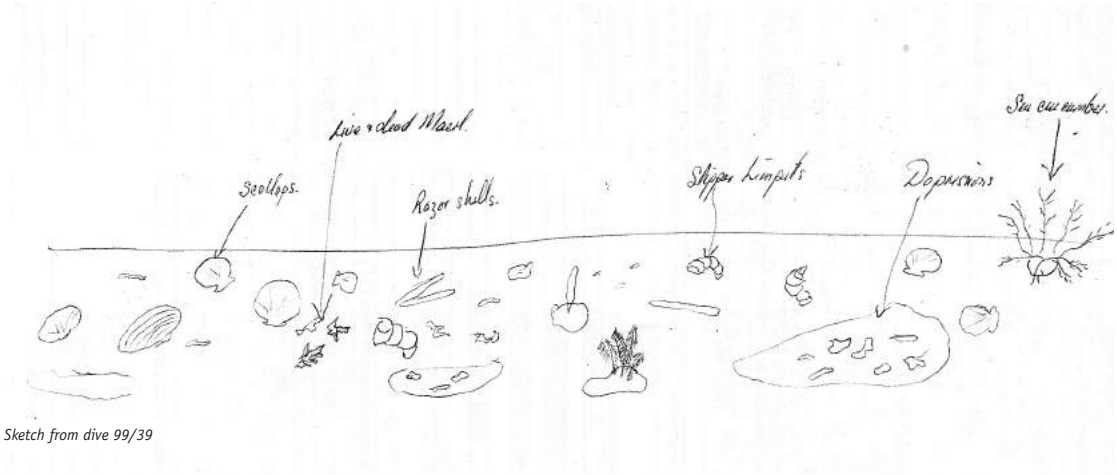
Mixed faunal turf communities

Bryozoan turf and erect sponges on tide-swept circalittoral rock

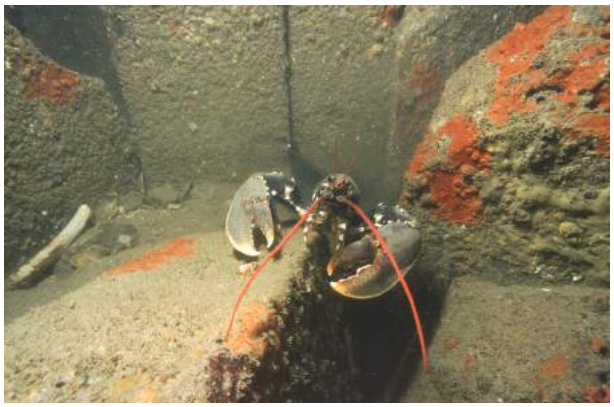
Eunicella verrucosa and *Pentapora foliacea* on wave-exposed circalittoral rock



Sketch from dive 99/49



Sketch from dive 99/39



Lobster among boulders on side of reef

Scallop, Pecten maximus, in shelly gravel/dead maerl covering top of reef

Most frequently recorded species

Number of Seasearch dives	7
Number of species/groups recorded	84

Species	Common name	No. of records	Abundance range
Labrus mixtus	Cuckoo wrasse	5	P to C
Pachymatisma johnstonia	Elephant's ear sponge	4	O to C
Phymatolithon calcareum	Maerl	4	P to O
Pentapora foliacea	Ross coral/potato crisp bryozoan	4	O to C
Pecten maximus	Great scallop	4	P to O
Alcyonium digitatum	Dead man's fingers soft coral	4	R to F
Holothurioidea	Sea cucumber family	3	P to O
Cancer pagurus	Edible crab / brown crab /great crab	3	P to F
Bispira volutacornis	Double crowned fan worm	3	O to F
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	3	R
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	3	P to F
Eunicella verrucosa	Pink sea fan	3	R to O
Flustra foliacea	Hornwrack / leafy bryozoan	3	P to F
Aequipecten opercularis	Queen scallop or queenie	3	F to C

Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Algae/Plants				
Phymatolithon calcareum	Maerl	O to P	R	HAP
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	C to O	F	Climate
Chordata				
Zeus faber	John Dory	R	R	Climate
Ctenolabrus rupestris	Goldsinny	C to P	O	Climate
Centrolabrus exoletus	Rock cook	F	F	Climate
Cnidaria (Corals, anemones, hydroids)				
Eunicella verrucosa	Pink sea fan	O to R	R	SOCC W&CA NS BAP Climate
Anemonia viridis	Snakelocks anemone	P	P	Climate
Crustacea				
Maja squinado	Spiny spider crab	O	O	Climate
Mollusca				
Crepidula fornicata	Slipper limpet	C	C	Introduced

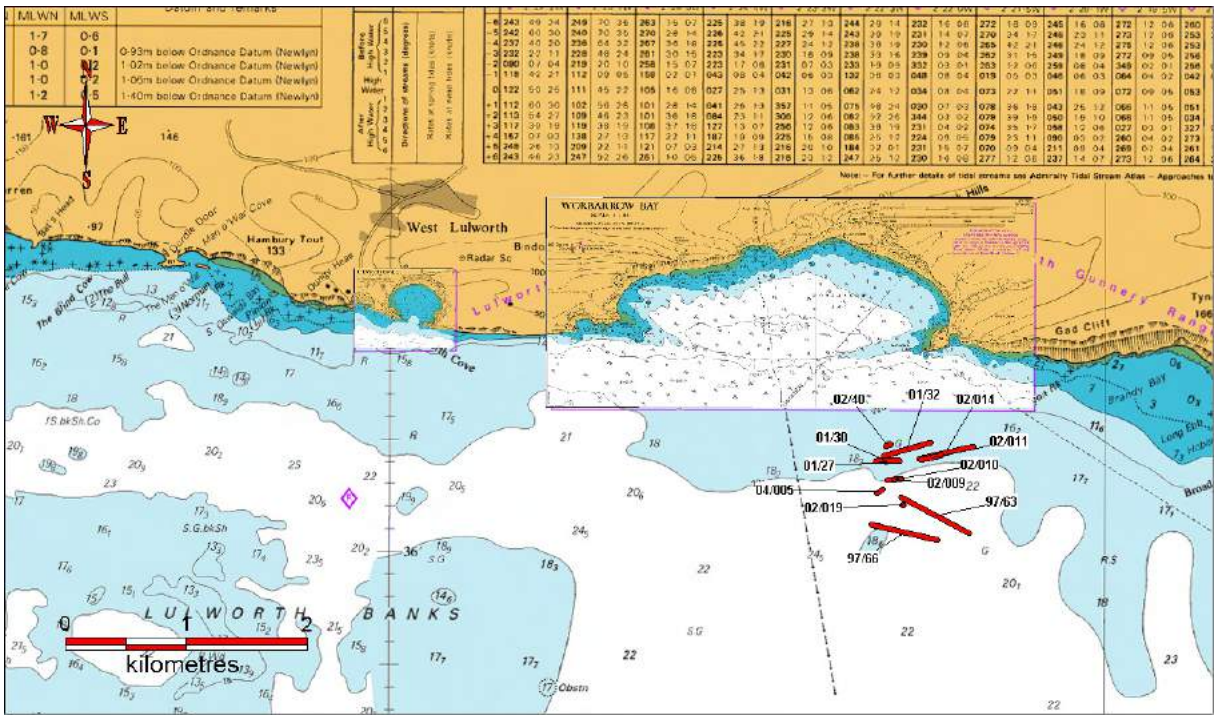
Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = C				
Pachymatisma johnstonia	Elephant's ear sponge	O to C	F	4
Cliona celata	Sulphur sponge / yellow boring sponge	R to C	O	2
Axinella dissimilis	Yellow staghorn sponge	C	C	1
Balanus	Acorn barnacles	C	C	1
Paguridae	Hermit crab family	P to C	O	2
Crepidula fornicata	Slipper limpet	C	C	1
Aequipecten opercularis	Queen scallop or queenie	F to C	F	3
Pentapora foliacea	Ross coral/potato crisp bryozoan	O to C	F	4
Ctenolabrus rupestris	Goldsinny	P to C	O	2
Labrus mixtus	Cuckoo wrasse	P to C	O	5
Pomatoschistus	A goby	C	C	1
Max abundance = F				
Polymastia	A sponge	F	F	1
Halichondria	A sponge	F	F	1
Esperiopsis fucorum	Shredded carrot sponge	F	F	1
Hemimycale columella	Pink/orange crater sponge	F	F	1
Dysidea fragilis	Goose bump/hedgehog sponge	O to F	O	2
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	P to F	R	3
Aglaophenia	A hydroid	F	F	1
Alcyonium digitatum	Dead man's fingers soft coral	R to F	O	4
Caryophyllia smithii	Devonshire cup coral	F	F	2
Bispira volutacornis	Double crowned fan worm	O to F	O	3
Homarus gammarus	Common lobster	F	F	1
Cancer pagurus	Edible crab / brown crab /great crab	P to F	R	3
Flustra foliacea	Hornwrack / leafy bryozoan	P to F	R	3
Cellepora pumicosa	Orange pumice bryozoan	F	F	1
Trisopterus luscus	Bib/ pouting	F	F	1
Centrolabrus exoletus	Rock cook	F	F	1
Parablennius gattorugine	Tompot blenny	F	F	1
Gobiusculus flavescens	Two-spotted goby	F	F	1
Thorogobius ephippiatus	Leopard-spotted goby	F	F	1

Worbarrow Reefs

Number of Seasearch dives 12

Number of species/groups recorded 84



Physical environment:

Depth range 18-24m

An area of narrow limestone reefs aligned roughly E-W (same as the general tidal current direction), protruding from a shelly gravel. The gravel is generally in waves, especially at the shoreward edge of the reefs. The reefs are generally dipping down to the north with a broken edge to the south. The broader reefs, up to 15m across, have a very smooth, gently sloping upper surface.

Many other reefs appear on the sidescan traces from this area but only a few off the Tout form these broad, almost flat platforms aligned with the current.

Habitat/Community types:

The smooth, gently sloping upper surfaces of these reefs support a rich sponge and seafan community, with large axinellid sponges and seafans up to a density of about 3-4 per 10 square metres. Other sponges here include *Tethya aurantium* and *Polymastia boletiformis*.

The broken reef edge forms medium to large boulders with encrusting sponges, *Pachymatisma johnstonia*, hydroids and clusters of the trumpet anemone, *Aiptaisa mutabilis*. Lobster, edible crab and wrasses were common along these edges.

The shoreward edge of these reefs grade into a waved shelly sand with scallops and occasional small rocks or artillery shells, covered in a bryozoan/hydroid turf.

Observations/Features of Interest:

Such densities of seafans were not thought to occur further east than reefs in Lyme Bay. A long term monitoring site has been set up on one of these reefs to look at growth, recruitment and mortality of the fans. The nudibranch, *Tritonia nilsodhneri*, is present on a small percentage of the fans but the seafan anemone, *Amphianthus dorhnii*, has not been seen here. Incidentally, the barnacle, *Solidobalanus fallax*, was a prominent fouling organism on the site markers but has not been recorded on the live fans.

Both seafans and axinellid sponges have been used to anchor dogfish eggcases.

Artillery shells, up to a metre long, were frequently seen on the seabed here and the area is regularly potted.

Recorded biotopes

Sublittoral sediment

Circalittoral mixed sediment

Circalittoral coarse sediment

Circalittoral rock (and other hard substrata)

Echinoderms and crustose communities

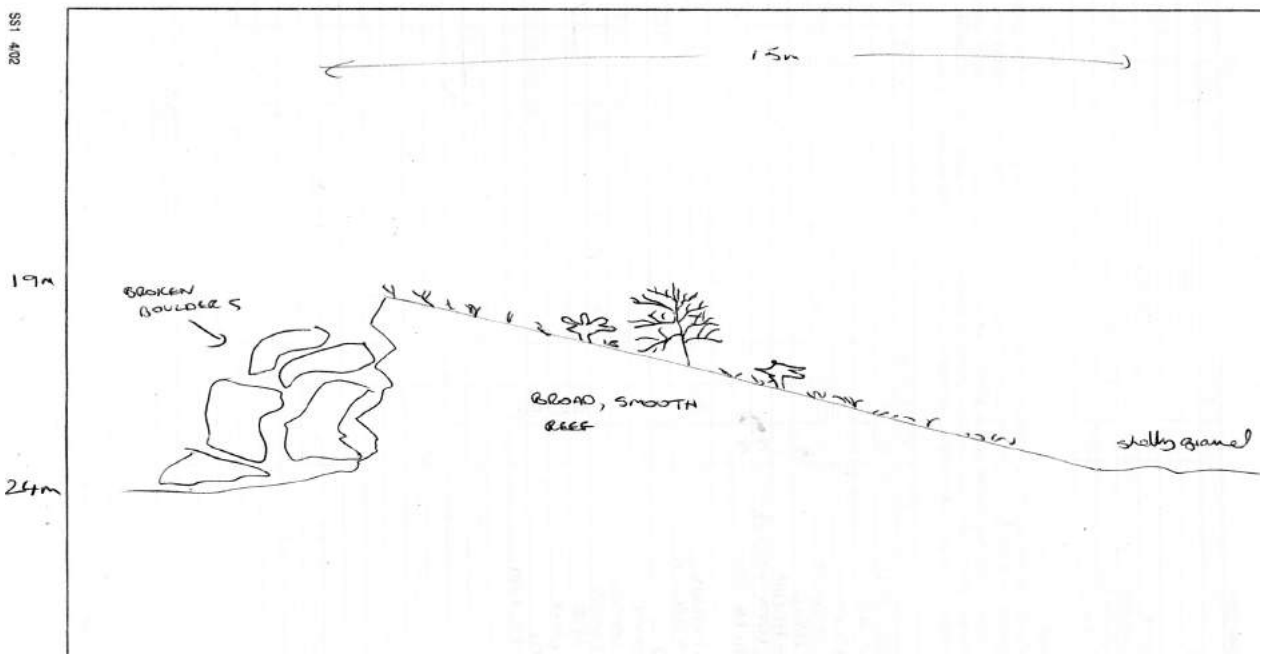
Mixed faunal turf communities

Sponges and anemones on vertical circalittoral bedrock

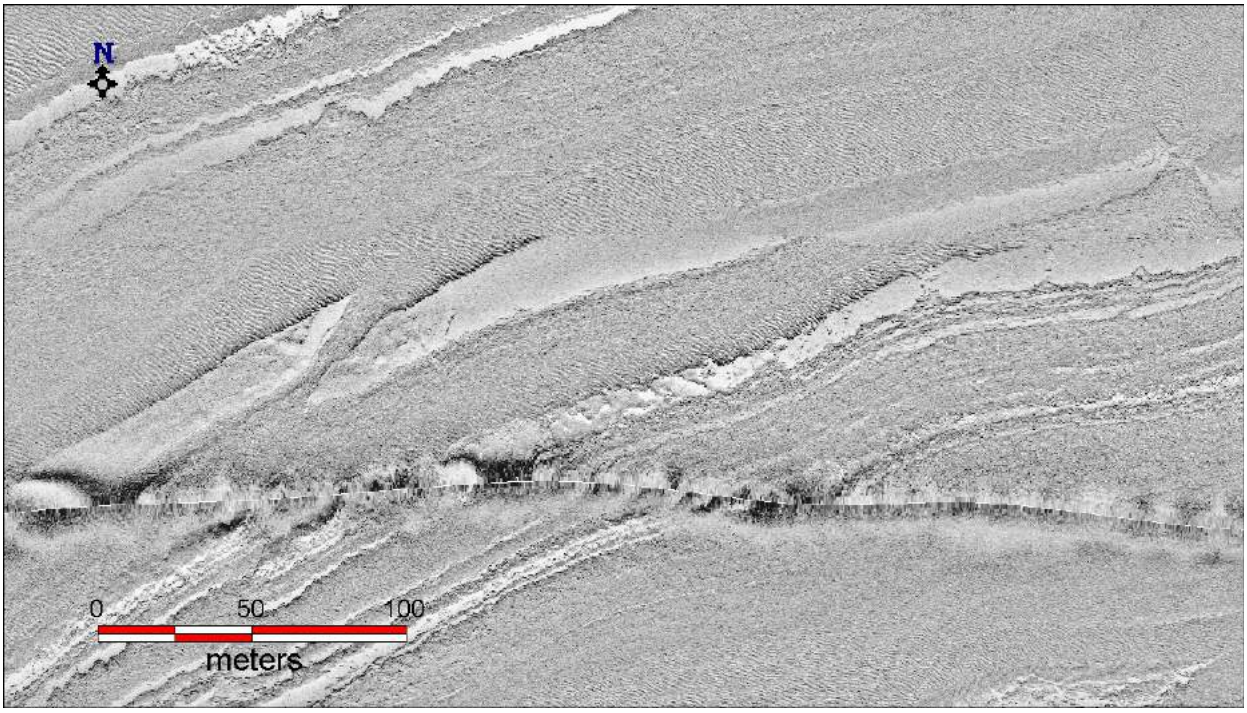
Bryozoan turf and erect sponges on tide-swept circalittoral rock

Mixed turf of bryozoans and erect sponges with *Dysidia fragilis* and *Actinothoe sphyrodeta* on tide-swept wave-exposed circalittoral rock

Eunicella verrucosa and *Pentapora foliacea* on wave-exposed circalittoral rock



Sketch from 02/40



Sidescan trace showing broad reefs off Worbarrow Tout

Pink seafans on reef top

Selection of sponges Photo Mike Markey

Broken boulder edge of reef

Artillery shell with bryozoan growth

Sponge, Raspaillia hispida

Encrusting sponge, Microciona atrasanguinea? on edge of reef

Most frequently recorded species

Number of Seasearch dives 12

Number of species/groups recorded 84

Species	Common name	No. of records	Abundance range
Pentapora foliacea	Ross coral/potato crisp bryozoan	10	P to C
Pachymatisma johnstonia	Elephant's ear sponge	10	P to C
Alcyonium digitatum	Dead man's fingers soft coral	9	R to F
Cancer pagurus	Edible crab / brown crab /great crab	8	O to F
Eunicella verrucosa	Pink sea fan	8	R to C
Labrus mixtus	Cuckoo wrasse	8	O to C
Flustra foliacea	Hornwrack / leafy bryozoan	7	P to A
Caryophyllia smithii	Devonshire cup coral	6	O to F
Bispira volutacornis	Double crowned fan worm	6	R to F
Homarus gammarus	Common lobster	5	R to O
Pecten maximus	Great scallop	5	R to F
Labrus bergylta	Ballan wrasse	5	R to C
Aiptasia mutabilis	Trumpet anemone	5	O to A
Henricia oculata	Bloody Henry starfish	5	R to O
Maja squinado	Spiny spider crab	4	R to F

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = S				
Aequipecten opercularis	Queen scallop or queenie	O to S	C	3
Max abundance = A				
Aiptasia mutabilis	Trumpet anemone	O to A	F	5
Crepidula fornicata	Slipper limpet	C to A	C	2
Pectinidae		A	A	1
Flustra foliacea	Hornwrack / leafy bryozoan	P to A	O	7
Corallinaceae		F to A	C	2
Max abundance = C				
Pachymatisma johnstonia	Elephant's ear sponge	P to C	O	10
Esperiopsis fucorum	Shredded carrot sponge	F to C	F	3
Hydrozoa	Hydroids/ sea firs	R to C	O	3
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	O to C	F	4
Eunicella verrucosa	Pink sea fan	R to C	O	8
Urticina	Dahlia anemone	O to C	F	2
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	F to C	F	2
Lanice conchilega	Sandmason worm	O to C	F	2
Bryozoa	Sea mats / moss animals	C	C	1
Bugula	A bryozoan	O to C	F	2
Pentapora foliacea	Ross coral/potato crisp bryozoan	P to C	O	10
Labrus bergylta	Ballan wrasse	R to C	O	5
Labrus mixtus	Cuckoo wrasse	O to C	F	8

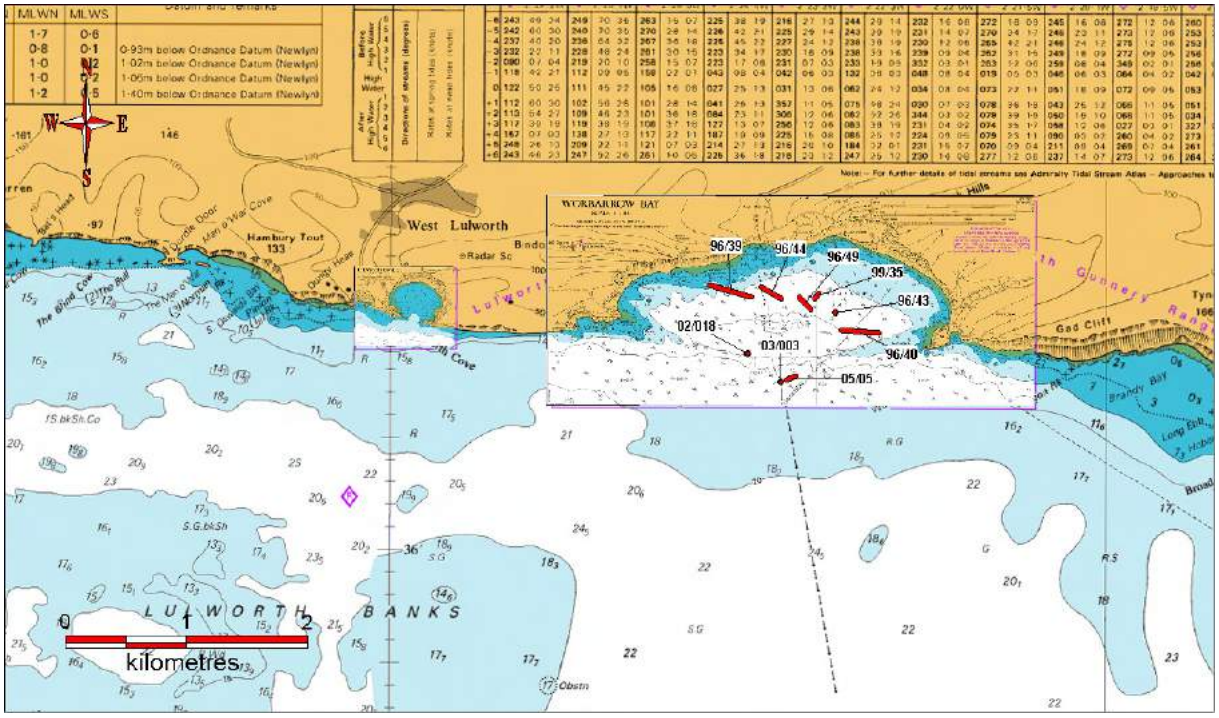
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Algae/Plants				
Phymatolithon calcareum	Maerl	P	P	HAP
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	C to P	O	Climate
Chordata				
Zeus faber	John Dory	R	R	Climate
Ctenolabrus rupestris	Goldsinny	O	O	Climate
Centrolabrus exoletus	Rock cook	O to R	R	Climate
Cnidaria (Corals, anemones, hydroids)				
Eunicella verrucosa	Pink sea fan	C to R	O	SOCC W&CA NS BAP Climate
Aiptasia mutabilis	Trumpet anemone	A to O	F	SOCC NS
Crustacea				
Maja squinado	Spiny spider crab	F to R	O	Climate
Mollusca				
Tritonia nilsodhneri	Seafan sea slug	P	P	SOCC NS
Crepidula fornicata	Slipper limpet	A to C	C	Introduced

Worbarrow Bay

Number of Seasearch dives 8

Number of species/groups recorded 68



Physical environment:

Depth range 9-20m

A limestone ridge runs across Worbarrow Bay, between the Tout and Mupe Rocks. The rock strata here are at a steep angle, as can be seen on Worbarrow Tout - forming a rugged reef. A pipeline runs through this ridge from Arish Mell and the well-dived wreck of the *Black Hawk* sits on this ridge (in two sections). The area inside the ridge is largely coarse rippled sand with occasional rocks.

Habitat/Community types:

Rocky areas were covered with a red/brown algal turf on the upper surfaces - *Calliblepharis ciliata* and others. *Cliona celata*, *Pachymatisma johnstonia*, *Axinella* and orange encrusting sponge on vertical surfaces. Various fish reported including wrasse, pollack and bib.

Burrows and bivalve siphons visible in the sand and lots of bivalve shells on the surface. Necklace shell egg collars were reported on the sand and many of the empty shells had the characteristic "drill-holes". Hermit crabs, some with the cloak anemone, *Adamsia carciniopados*, were common and burrowing sea-cucumbers, *Neopentadactyla mixta*, were seen frequently. Straight-sided, pencil deep round holes in the sand, with a clay-like lining. Many small gobies and small prawns.

Large numbers of spiny spider crabs, *Maja squinado*, were encountered throughout the area.

Observations/Features of Interest:

The wreck of the Black Hawk produced a record of a couple of rarely reported coral species, the cup coral, *Caryophyllia inornata* and the Weymouth Carpet coral, *Hoplangia durotrix*. Both were found in a short bryozoan turf on downward facing surfaces in small openings in the wreck. The wreck also supports several pink seafans, *Eunicella verrucosa*, and colonies of jewel anemones, *Corynactis viridis*.

A nearby smaller wreck, currently unidentified, lies very close to a 2m high reef, on which a fish cleaning station was observed. Both wrecks shelter lots of fish life.

Recorded biotopes

Sublittoral sediment

Infralittoral muddy sand

Arenicola marina in infralittoral fine sand or muddy sand

Circalittoral muddy sand

Infralittoral mixed sediment

Infralittoral coarse sediment

Circalittoral coarse sediment

Neopentadactyla mixta in circalittoral shell gravel or coarse sand

Infralittoral rock (and other hard substrata)

Kelp and red seaweeds (moderate energy infralittoral rock)

Laminaria hyperborea on tide-swept, infralittoral mixed substrata.

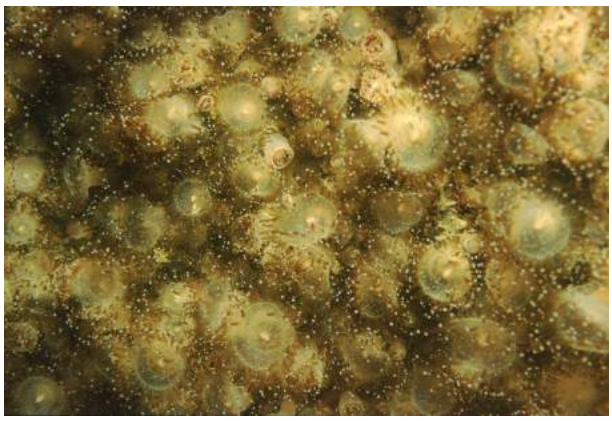
Mixed kelp park on lower infralittoral mixed substrata.

Dense foliose red seaweeds on silty moderately exposed infralittoral rock

Circalittoral rock (and other hard substrata)

Mixed faunal turf communities

Circalittoral fouling faunal communities



Jewel anemones, Corynactis viridis

Weymouth carpet coral, Hoplangia durotrix, on the Black Hawk

Cup coral, Caryophyllia inornata, on the Black Hawk

Hermit crab, Pagurus bernhardus in a Buccinum undatum shell

Seafan, Eunicella verrucosa, on the wreck of the Black Hawk

Hydroid, Gymnangium montagui, growing on the anchor chain of the Black Hawk

Most frequently recorded species

Number of Seasearch dives 8

Number of species/groups recorded 68

Species	Common name	No. of records	Abundance range
Cancer pagurus	Edible crab / brown crab /great crab	4	P to R
Anemonia viridis	Snakelocks anemone	4	P to R
Paguridae	Hermit crab family	4	P to O
Maja squinado	Spiny spider crab	4	P to R
Ctenolabrus rupestris	Goldsinny	3	P to F
Trisopterus luscus	Bib/ pouting	3	P to C
Gobiidae	Goby family	3	P to F
Parablennius gattorugine	Tompot blenny	3	P to O
Botryllus schlosseri	Star seasquirt	2	P
Pachymatisma johnstonia	Elephant's ear sponge	2	P to C
Calliblepharis ciliata	Red fringe weed	2	P to C
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	2	P to O
Labrus mixtus	Cuckoo wrasse	2	P to O
Cereus pedunculatus	Daisy anemone	2	P to O
Clavelina lepadiformis	Lightbulb seasquirt	2	P to R
Corallinaceae	Pink coralline algae	2	P to O
Lanice conchilega	Sandmason worm	2	P to F
Trochidae	Topshells	2	P to C
Pecten maximus	Great scallop	2	P to O
Pectinidae	Scallop family	2	O
Adamsia carciniopados	Hermit crab's cloak anemone	2	P
Pentapora foliacea	Ross coral/potato crisp bryozoan	2	P to O
Pollachius pollachius	Pollack	2	O to C
Arenicola	A lug worm	2	F to C
Ophiuroidea	Brittlestar family	2	P

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = C				
Pachymatisma johnstonia	Elephant's ear sponge	P to C	O	2
Esperiopsis fucorum	Shredded carrot sponge	C	C	1
Caryophyllia smithii	Devonshire cup coral	C	C	1
Arenicola	A lug worm	F to C	F	2
Trochidae	Topshells	P to C	O	2
Gibbula magus	Warty/large/turban top shell	C	C	1
Pollachius pollachius	Pollack	O to C	F	2
Trisopterus luscus	Bib/ pouting	P to C	O	3
Labrus bergylta	Ballan wrasse	C	C	1
Calliblepharis ciliata	Red fringe weed	P to C	O	2
Ceramium	A red seaweed	C	C	1

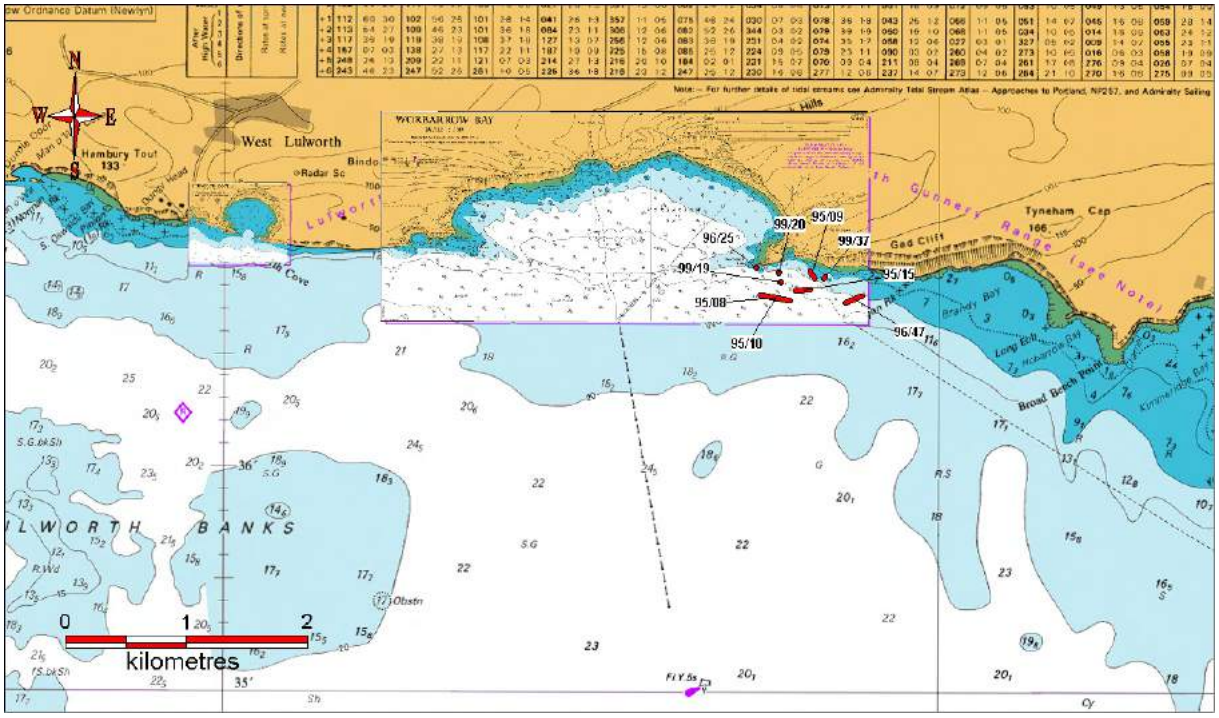
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	0 to P	R	Climate
Chordata				
Zeus faber	John Dory	R	R	Climate
Ctenolabrus rupestris	Goldsinny	F to P	R	Climate
Cnidaria (Corals, anemones, hydroids)				
Hoplangia durotrix	Carpet coral	F	F	SOCC NR
Eunicella verrucosa	Pink sea fan	R	R	SOCC W&CA NS BAP Climate
Caryophyllia inornata	Button/southern cup coral	F	F	SOCC NR
Anemonia viridis	Snakelocks anemone	R to P	P	Climate
Crustacea				
Maja squinado	Spiny spider crab	R to P	P	Climate

Worbarrow Tout

Number of Seasearch dives 9

Number of species/groups recorded 61



Physical environment:

Depth range 6-18m

Close inshore are huge boulders of Portland limestone, forming a boulder slope under Gad Cliff. These large boulders have steep or vertical sides forming gullies and overhangs, making for very scenic diving. Smaller boulders and gravel between these blocks.

Moving offshore the boulder size decreases and gives way to rippled shelly gravel with occasional rocky outcrops.

Habitat/Community types:

The large boulders are topped with kelp and Halidrys with a red algal understorey. Sides and underhangs of boulders with hydroids, bryozoans (*Bugula* spp.), sponges (incl.*Pachymatisma johnstonia* and *Esperiopsis fucorum*) and groups of the trumpet anemone, *Aiptasia mutabilis*.

Little reported from the gravel areas apart from burrowing anemones and "unidentified worms".

Observations/Features of Interest:

This is the site of Dorset Wildlife Trust's Underwater Nature Trail, which ran from the tip of the Tout for about 150 out to sea. The trail has not been maintained in recent years and is likely to be very difficult to follow.

There is a small wreck of a barge just off the Tout - this used to be part of the Nature Trail.

More information on this area from a Dorset Wildlife Trust Booklet - Underwater Nature Trail, by Collins and Mallinson.

Recorded biotopes

Sublittoral sediment

Infralittoral mixed sediment

Infralittoral coarse sediment

Circalittoral coarse sediment

Neopentadactyla mixta in circalittoral shell gravel or coarse sand

Infralittoral rock (and other hard substrata)

Kelp and red seaweeds (moderate energy infralittoral rock)

Laminaria hyperborea and foliose red seaweeds on moderately exposed infralittoral rock

Laminaria hyperborea forest and foliose red seaweeds on moderately exposed upper infralittoral rock

Dense foliose red seaweeds on silty moderately exposed infralittoral rock

Sediment-affected or disturbed kelp and seaweed communities

Halidrys siliquosa and mixed kelps on tide-swept infralittoral rock with coarse sediment

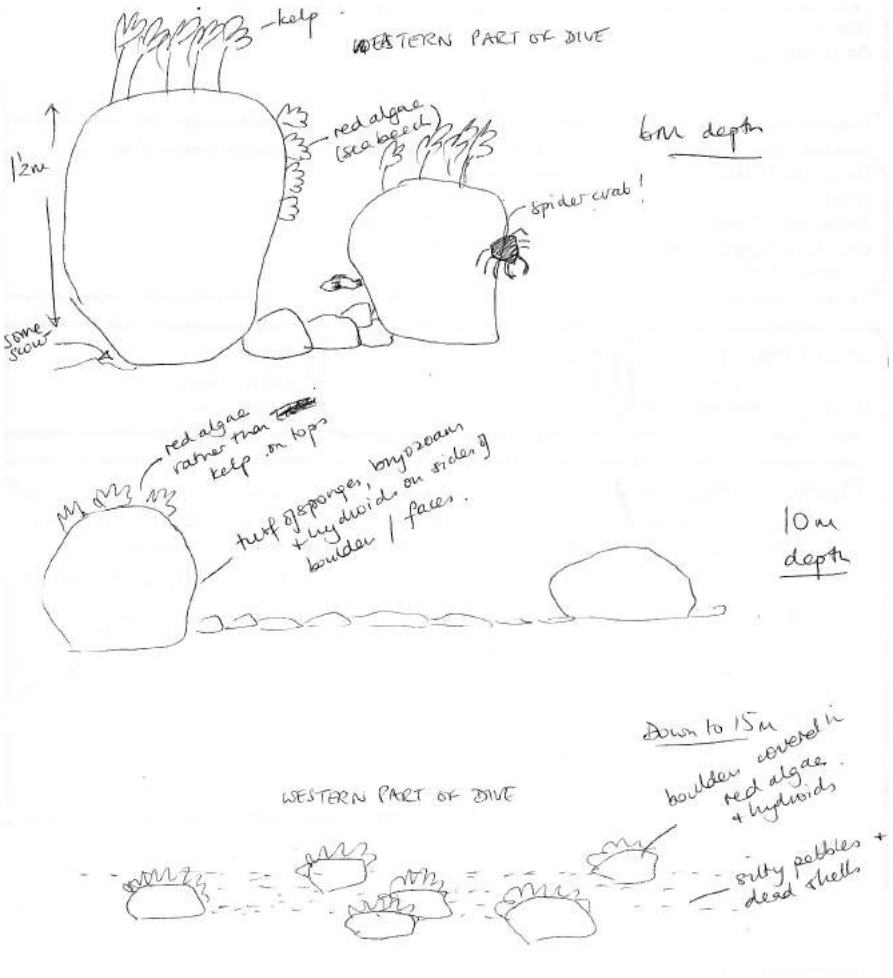
Kelp with cushion fauna and/or foliose red seaweeds

Foliose red seaweeds on exposed lower infralittoral rock

Foliose red seaweeds with dense *Dictyota dichotoma* and/or *Dictyopteris membranacea* on exposed lower infralittoral rock

Circalittoral rock (and other hard substrata)

Mixed faunal turf communities



Sketch from dive 96/25

Most frequently recorded species

Number of Seasearch dives	9
Number of species/groups recorded	61

Species	Common name	No. of records	Abundance range
Ctenolabrus rupestris	Goldsinny	7	P to F
Labrus bergylta	Ballan wrasse	5	P to F
Trisopterus luscus	Bib/ pouting	5	P to C
Parablennius gattorugine	Tompot blenny	5	P to F
Rhodophycota	Red seaweeds	5	P to A
Pachymatisma johnstonia	Elephant's ear sponge	4	P to F
Cliona celata	Sulphur sponge / yellow boring sponge	4	R to O
Halidrys siliquosa	Pod weed / sea oak	4	P to A
Thorogobius ephippiatus	Leopard-spotted goby	4	O to F
Dysidea fragilis	Goose bump/hedgehog sponge	3	P to F
Centrolabrus exoletus	Rock cook	3	P to O
Calliblepharis ciliata	Red fringe weed	3	P to A
Labrus mixtus	Cuckoo wrasse	3	P to O
Tethya aurantium	Golf ball sponge	3	P to R

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Rhodophycota	Red seaweeds	P to A	O	5
Corallinaceae	Pink coralline algae	F to A	C	2
Calliblepharis ciliata	Red fringe weed	P to A	O	3
Laminaria	Kelp	F to A	C	2
Halidrys siliquosa	Pod weed / sea oak	P to A	O	4
Max abundance = C				
Aplysia punctata	Red sea hare	O to C	F	2
Pholadidae	Piddocks	C	C	1
Trisopterus luscus	Bib/ pouting	P to C	O	5
Max abundance = F				
Pachymatisma johnstonia	Elephant's ear sponge	P to F	R	4
Dysidea fragilis	Goose bump/hedgehog sponge	P to F	R	3
Porifera indet.	Sponge crusts	P to F	R	2
Hydrozoa	Hydroids/ sea firs	P to F	R	2
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	F	F	1
Aiptasia mutabilis	Trumpet anemone	P to F	R	2
Gibbula cineraria	Grey top shell	F	F	1
Bugula	A bryozoan	F	F	1
Ctenolabrus rupestris	Goldsinny	P to F	R	7
Labrus bergylta	Ballan wrasse	P to F	R	5
Parablennius gattorugine	Tompot blenny	P to F	R	5
Gobiusculus flavescens	Two-spotted goby	O to F	O	2
Thorogobius ephippiatus	Leopard-spotted goby	O to F	O	4
Delesseria sanguinea	Sea beech	F	F	1
Phaeophyceae	Brown seaweeds	P to F	R	2
Dictyopteris membranacea	A brown seaweed	P to F	R	2

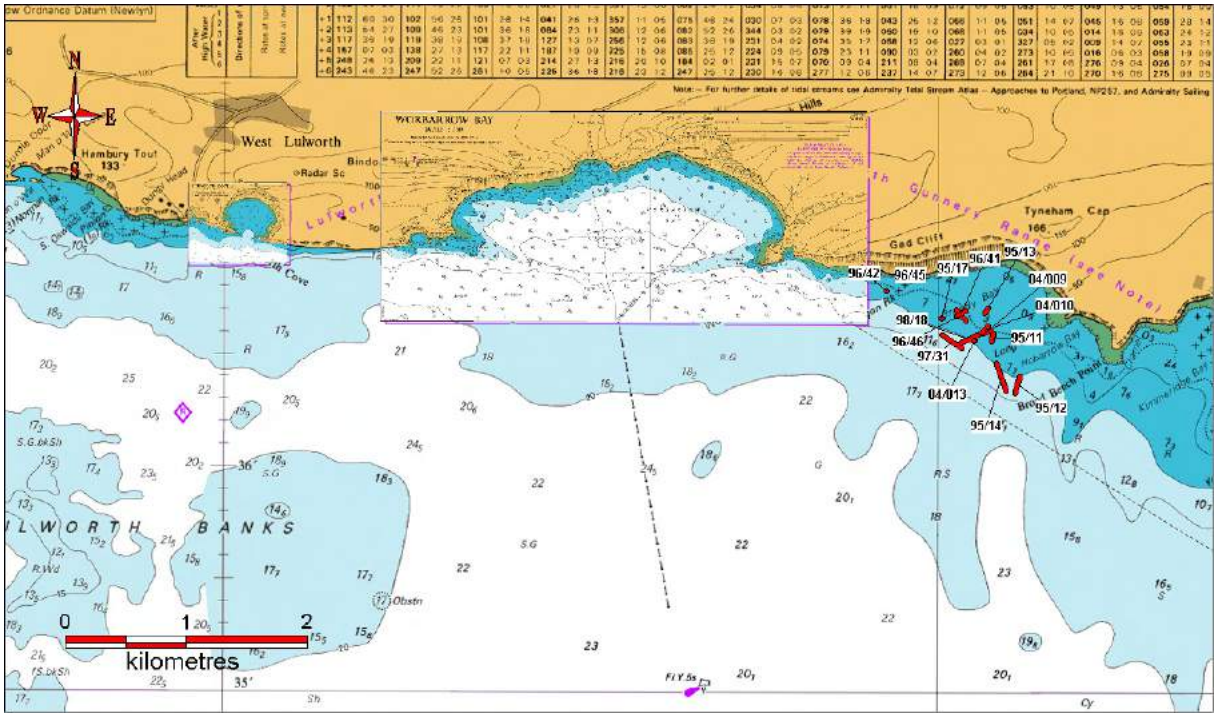
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	P	P	Climate
Chordata				
Ctenolabrus rupestris	Goldsinny	F to P	R	Climate
Centrolabrus exoletus	Rock cook	O to P	R	Climate
Cnidaria (Corals, anemones, hydroids)				
Anemonia viridis	Snakelocks anemone	R to P	P	Climate
Aiptasia mutabilis	Trumpet anemone	F to P	R	SOCC NS

Inshore Brandy Bay

Number of Seasearch dives 14

Number of species/groups recorded 98



Physical environment:

Depth range 6-17m

Dive 95/12 encountered waved shelly gravel/dead maerl with a scattering of live maerl (5%). Most other sites are either stepped shale ledges or shale bedrock, often with a thin covering of gravel, with large or very large limestone boulders.

Anemones (Aiptasia mutabilis) on boulder

Habitat/Community types:

The waved shelly gravel contained occasional paired siphons (unidentified) and large numbers of small dragonets. Bedrock/large boulders were topped with Halidrys, *Dictyota/Dictyopteris* and red algae, especially *Calliblepharis ciliata*, the latter often bleached yellow. Vertical surfaces with sponges, anemones (*Aiptasia, Actinothoe*) and hydroids. One shallow site (95/13) was a kelp forest with *Laminaria hyperborea* and *Saccorhiza polyschides*.

A good area for fish sightings with wrasse, pollack, bib, tompot blennies, leopard spotted gobies, dragonets and two-spot gobies all regularly seen.

Observations/Features of Interest:

Most of the dives here took place in 1996 which seems to have been a good year for the sea-hare, *Aplysia*. Dives 539/308 and 544/314 encountered a 4m tall shale reef with many crevices/overhangs. This may be a continuation of Long Ebb. The unusual brown alga, *Zanardinia prototypus* was recorded here. The presence of live maerl here (95/12) is of interest.

Recorded biotopes

Sublittoral sediment

Circalittoral coarse sediment

Circalittoral mixed sediment

Infralittoral coarse sediment

Circalittoral rock (and other hard substrata)

Mixed faunal turf communities

Echinoderms and crustose communities

Faunal and algal crusts on exposed to moderately wave-exposed circalittoral rock

Soft rock communities

Circalittoral caves and overhangs

Infralittoral rock (and other hard substrata)

Kelp and red seaweeds (moderate energy infralittoral rock)

Dense foliose red seaweeds on silty moderately exposed infralittoral rock

Laminaria hyperborea and foliose red seaweeds on moderately exposed infralittoral rock

Laminaria hyperborea park and foliose red seaweeds on moderately exposed lower infralittoral rock

Laminaria hyperborea on tide-swept, infralittoral mixed substrata.

Mixed kelp park on lower infralittoral mixed substrata.

Kelp with cushion fauna and/or foliose red seaweeds

Foliose red seaweeds on exposed lower infralittoral rock

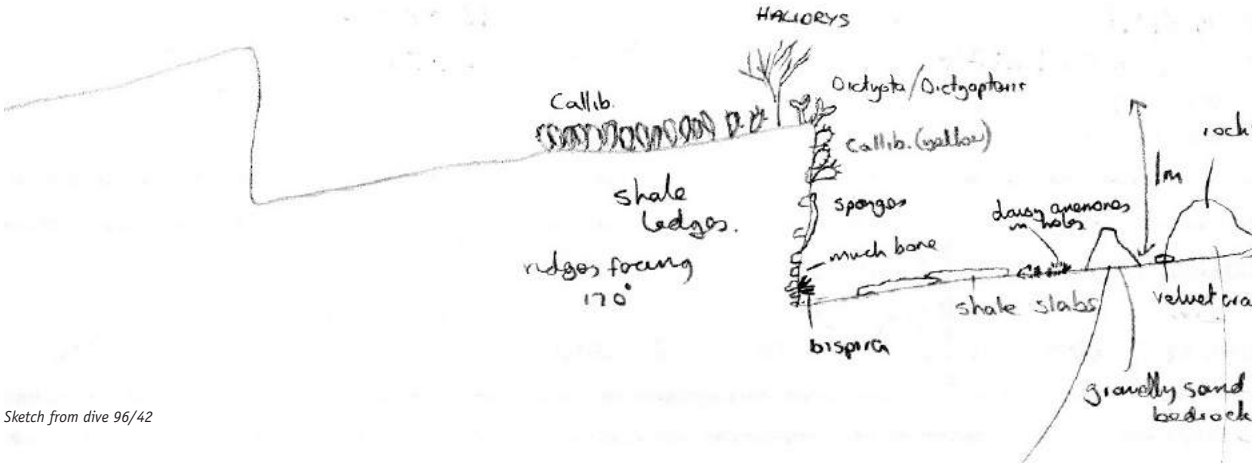
Laminaria hyperborea with dense foliose red seaweeds on exposed infralittoral rock

Laminaria hyperborea forest with dense foliose red seaweeds on exposed upper infralittoral rock

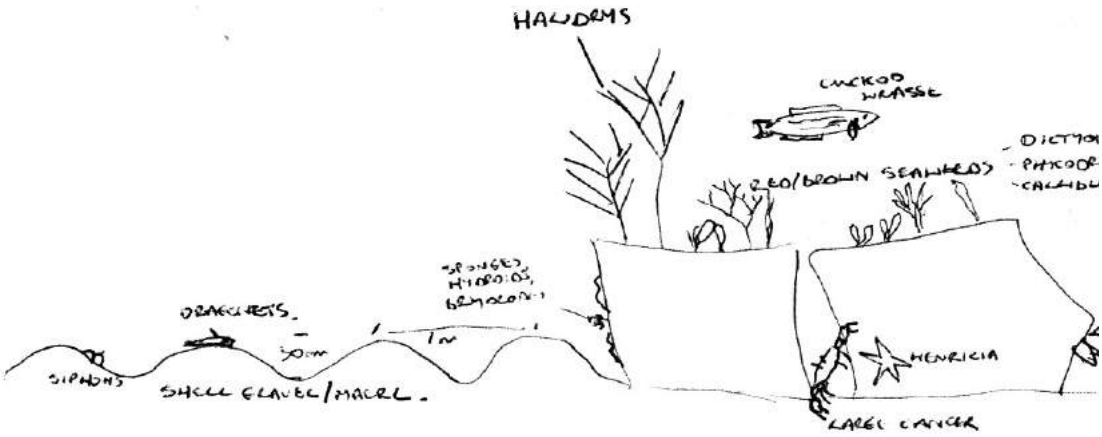
Sediment-affected or disturbed kelp and seaweed communities

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

Halidrys siliquosa and mixed kelps on tide-swept infralittoral rock with coarse sediment



Sketch from dive 96/42



Sketch from dive 95/12

Most frequently recorded species

Number of Seasearch dives	14
Number of species/groups recorded	98

Species	Common name	No. of records	Abundance range
Pollachius pollachius	Pollack	9	P to A
Ctenolabrus rupestris	Goldsinny	8	P to C
Rhodophycota	Red seaweeds	7	P to A
Halidrys siliquosa	Pod weed / sea oak	7	P to A
Labrus bergylta	Ballan wrasse	6	P to C
Phaeophyceae	Brown seaweeds	6	P to A
Cancer pagurus	Edible crab / brown crab /great crab	6	P to R
Labrus mixtus	Cuckoo wrasse	6	R to C
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	5	P to O
Pholadidae	Piddocks	5	P to A
Bispira volutacornis	Double crowned fan worm	5	P to F
Thorogobius ephippiatus	Leopard-spotted goby	5	P to F
Trisopterus luscus	Bib/ pouting	5	P to C
Anemonia viridis	Snakelocks anemone	5	P to R
Maja squinado	Spiny spider crab	5	P to R
Gobiusculus flavescens	Two-spotted goby	4	P to F
Henricia oculata	Bloody Henry starfish	4	P to A
Membranipora membranacea	Kelp sea mat	3	P to C
Labridae	Wrasses	3	P to O
Parablennius gattorugine	Tompot blenny	3	P to C
Laminaria hyperborea	Cuvie / northern kelp / forest kelp	3	O to A
Laminaria saccharina	Sugar kelp / sea belt	3	R to O
Porifera indet.	Sponge crusts	3	P to O
Bugula	A bryozoan	3	P to C
Dysidea fragilis	Goose bump/hedgehog sponge	3	O to F
Alcyonium digitatum	Dead man's fingers soft coral	3	P to A
Corallinaceae	Pink coralline algae	3	P to C
Galatheidae	Squat lobster family	3	P to O
Laminariaceae	Kelps	3	P to C
Calliblepharis ciliata	Red fringe weed	3	P to C

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Alcyonium digitatum	Dead man's fingers soft coral	P to A	O	3
Pholadidae	Piddocks	P to A	O	5
Henricia oculata	Bloody Henry starfish	P to A	O	4
Pollachius pollachius	Pollack	P to A	O	9
Rhodophycota	Red seaweeds	P to A	O	7
Phaeophyceae	Brown seaweed	P to A	O	6
Dictyota dichotoma	A brown seaweed	C to A	C	2
Laminaria hyperborea	Cuvie / northern kelp / forest kelp	O to A	F	3
Halidrys siliquosa	Pod weed / sea oak	P to A	O	7
Max abundance = C				
Porifera indet crusts	Sponge crusts	O to C	F	1
Hydrozoa	Hydroid/ sea firs	C	C	2
Aglaophenia	A hydroid	C	C	1
Obelia	Kelp fur hrdroid	O to C	F	1
Filograna implexa	Vermicelli worm	C	C	1
Aplysia punctata	Red sea hare	R to C	O	2
Bryozoa	Sea mats / moss animals	P to C	O	2
Scruparia	A bryozoan	C	C	1
Membranipora membranacea	Kelp sea mat	P to C	O	3
Electra pilosa	Frost/hairy sea mat	C	C	1
Bugula	A bryozoan	P to C	O	3
Trisopterus luscus	Bib/ pouting	P to C	O	5
Ctenolabrus rupestris	Goldsinny	P to C	O	8
Labrus bergylta	Ballan wrasse	P to C	O	6
Labrus mixtus	Cuckoo wrasse	R to C	O	6
Parablennius gattorugine	Tompot blenny	P to C	O	3
Callionymus lyra	Common dragonet	C	C	1
Corallinaceae	Pink coralline algae	P to C	O	3
Corallina officinalis	Coral weed / bone weed	O to C	F	2
Calliblepharis ciliata	Red fringe weed	P to C	O	3
Dilsea carnosa	Red rags / red leather weed	O to C	F	1
Plocamium cartilagineum	Red comb weed / cockscombe / scarlet hair flag	F to C	F	1
Delesseria sanguinea	Sea beech	O to C	F	2
Laurencia	A red seaweed	C	C	1
Laminariaceae	Kelps	P to C	O	3

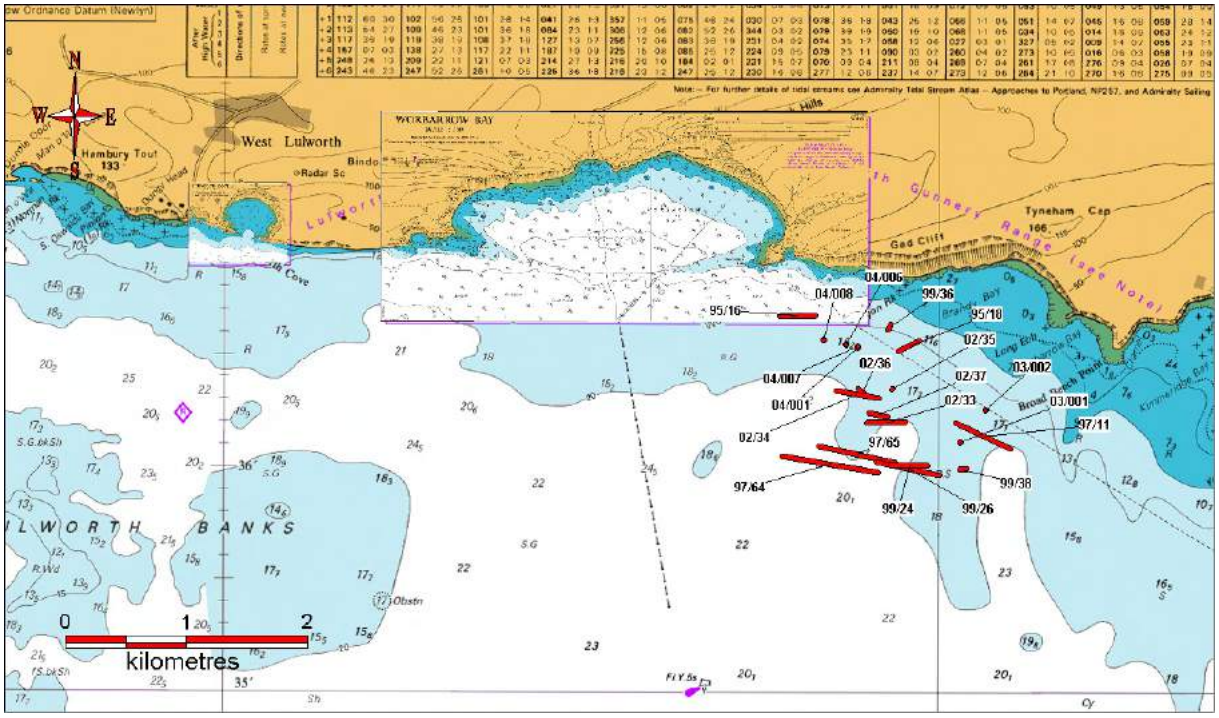
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Algae/Plants				
Zanardinia prototypus	Penny weed	R	R	SOCC NS Climate
Phymatolithon calcareum	Maerl	P	P	HAP
Annelida (Worms)				
Serpula vermicularis	Organ pipe worm	R	R	HAP
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	P	P	Climate
Chordata				
Ctenolabrus rupestris	Goldsinny	C to P	O	Climate
Centrolabrus exoletus	Rock cook	P	P	Climate
Cnidaria (Corals, anemones, hydroids)				
Anemonia viridis	Snakelocks anemone	R to P	P	Climate
Aiptasia mutabilis	Trumpet anemone	P	P	SOCC NS
Crustacea				
Maja squinado	Spiny spider crab	R to P	P	Climate

Brandy Bay

Number of Seasearch dives 20

Number of species/groups recorded 145



Physical environment:

Depth range from 18-25m

Section between Broad Bench and Worbarrow Tout. Largely flat seabed with three different habitats:

a shale bedrock, heavily piddock bored, with often a thin covering of sediment, occasional small ledges up to 30cm;

limestone/cementstone bedrock, gently undulating. This formed a boulder slope at one end;

sediment of shelly gravel with pebbles

Habitat/Community types:

The bedrock has a covering of sponges, including *Axinella* sp, bryozoans, (hornwrack, *Flustra foliacea* dominant and some large ross corals) deadmens fingers, hydroids and tunicates (including large patches of *Stolonica socialis*).

The shale was heavily bored with piddock holes. In some areas the cover was quite sparse, especially along the base of a ledge.

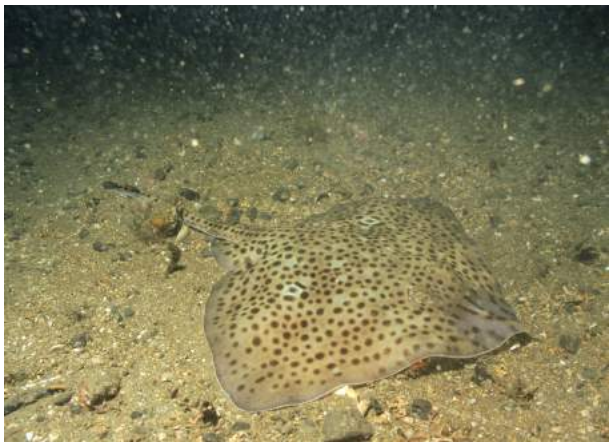
The gravel/pebble covered areas usually had high concentrations of queen scallops, *Aequipecten opercularis*. Several of the longer drift dives crossed over long, thin patches of slipper limpet, *Crepidula*, the patches running perpendicular to the direction of the current.

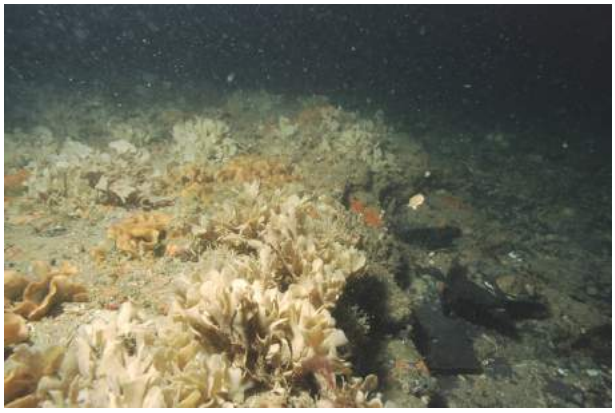
Observations/Features of Interest:

A good site for ross coral (recorded on virtually all dives), with some large specimens. The ledge off Wagon Rock was notable for small spider crabs (*Inachus/Macropodia*). Fourteen species of sponge were recorded on the bedrock sections.

The sediment areas were rich in queen scallops - these often "dancing" around the divers. The king scallop was more widely recorded but at much lower abundance.

There was one record of live maerl (02/034).





Recorded biotopes

Sublittoral sediment

Infralittoral mixed sediment

Crepidula fornicata with ascidians and anenomes on infralittoral coarse mixed sediment

Circalittoral mixed sediment

Circalittoral coarse sediment

Neopentadactyla mixta in circalittoral shell gravel or coarse sand

Infralittoral rock (and other hard substrata)

Kelp with cushion fauna and/or foliose red seaweeds

Foliose red seaweeds on exposed lower infralittoral rock

Circalittoral rock (and other hard substrata)

Echinoderms and crustose communities

Faunal and algal crusts on exposed to moderately wave-exposed circalittoral rock

Flustra foliacea on slightly scoured silty circalittoral rock

Alcyonium digitatum, Pomatoceros triqueter, algal and bryozoan crusts on wave-exposed circalittoral rock

Mixed faunal turf communities

Sponges and anemones on vertical circalittoral bedrock

Sparse sponges, *Nemertesia* spp. and *Alcyonidium diaphanum* on circalittoral mixed substrata

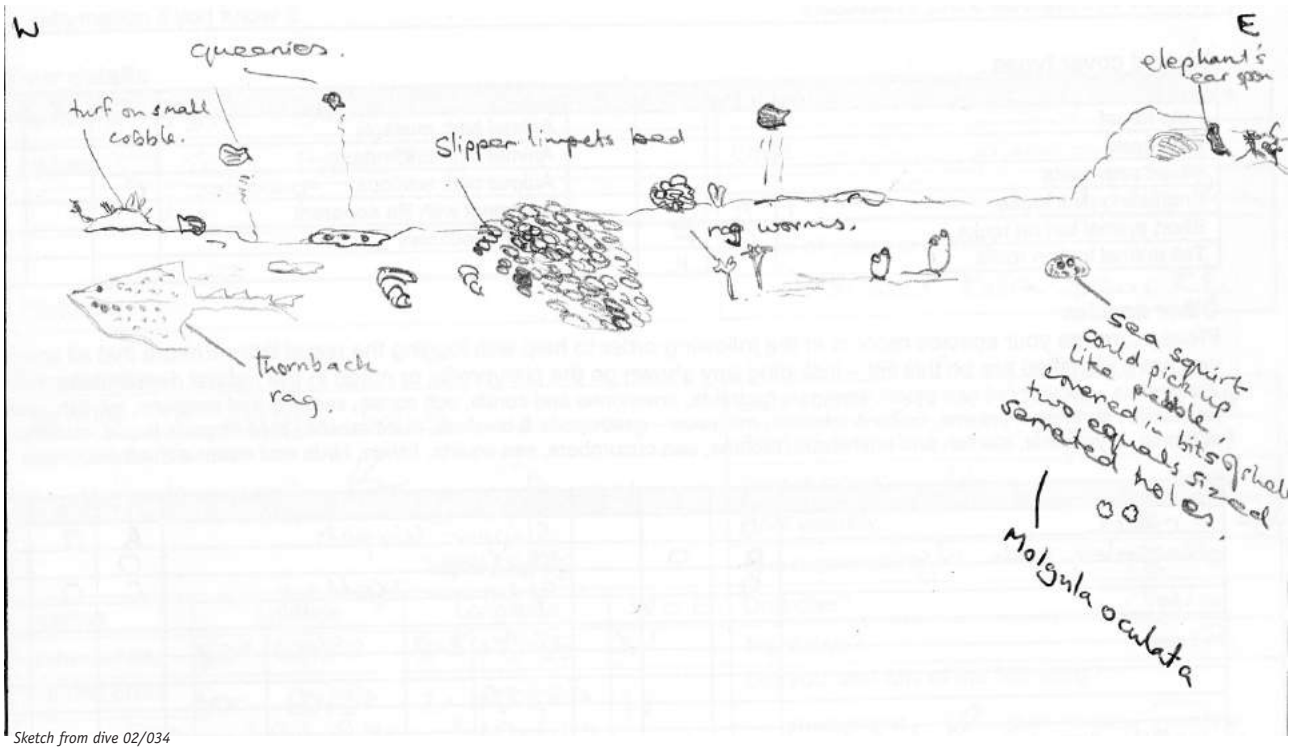
Flustra foliacea and colonial ascidians on tide-swept moderately wave-exposed circalittoral rock

Flustra foliacea and colonial ascidians on tide-swept exposed circalittoral mixed substrata

Bryozoan turf and erect sponges on tide-swept circalittoral rock

Queen scallops - Aequipecten opercularis

Mixed sponges



Sketch from dive 02/034

Most frequently recorded species

Number of Seasearch dives	20
Number of species/groups recorded	145

Species	Common name	No. of records	Abundance range
Pentapora foliacea	Ross coral/potato crisp bryozoan	18	P to A
Alcyonium digitatum	Dead man's fingers soft coral	13	P to C
Pecten maximus	Great scallop	12	R to A
Flustra foliacea	Hornwrack / leafy bryozoan	12	P to A
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	10	O to C
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	9	R to F
Polymastia boletiformis	Chimney ball sponge	9	R to C
Bispira volutacornis	Double crowned fan worm	9	R to C
Pachymatisma johnstonia	Elephant's ear sponge	8	R to F
Rhodophycota	Red seaweeds	8	P to A
Henricia oculata	Bloody Henry starfish	8	R to O
Cancer pagurus	Edible crab / brown crab /great crab	8	R to C
Cliona celata	Sulphur sponge / yellow boring sponge	7	R to O
Corallinaceae	Pink coralline algae	7	P to A
Ctenolabrus rupestris	Goldsinny	7	P to F
Parablennius gattorugine	Tompot blenny	7	P to O
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	7	P to F
Tethya aurantium	Golf ball sponge	7	R to F
Hemimycale columella	Pink/orange crater sponge	7	R to C
Labrus mixtus	Cuckoo wrasse	6	R to C
Dysidea fragilis	Goose bump/hedgehog sponge	6	O to A
Aiptasia mutabilis	Trumpet anemone	6	P to C
Alcyonidium diaphanum	Jelly baby/finger bryozoan / sea chervil/ Dogger Bank itch	6	R to F
Botryllus schlosseri	Star seasquirt	6	P to O
Majidae	Spider crab family	6	P to C

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Porifera	Sponges	F to A	C	2
Dysidea fragilis	Goose bump/hedgehog sponge	O to A	F	6
Crepidula fornicata	Slipper limpet	O to A	F	5
Pectinidae	Scallop family	P to A	O	3
Pecten maximus	Great scallop	R to A	F	12
Aequipecten opercularis	Queen scallop or queenie	O to A	F	4
Flustra foliacea	Hornwrack / leafy bryozoan	P to A	O	12
Pentapora foliacea	Ross coral/potato crisp bryozoan	P to A	O	18
Rhodophycota	Red seaweeds	P to A	O	8
Corallinaceae	Pink coralline algae	P to A	O	7
Max abundance = C				
Polymastia boletiformis	Chimney ball sponge	R to C	O	9
Axinella dissimilis	Yellow staghorn sponge	O to C	F	4
Esperiopsis fucorum	Shredded carrot sponge	R to C	O	4
Hemimycale columella	Pink/orange crater sponge	R to C	O	7
Raspailia ramosa	Chocolate finger/hairy antler sponge	R to C	O	2
Porifera indet crusts	Sponge crusts	C	C	1
Hydrozoa	Hydroids/ sea firs	P to C	O	5
Halecium halecinum	Herringbone hydroid	O to C	F	2
Hydrallmania falcata	Spiralled sea fir / helter-skelter hydroid	O to C	F	2
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	O to C	F	10
Alcyonium digitatum	Dead man's fingers soft coral	P to C	O	13
Aiptasia mutabilis	Trumpet anemone	P to C	O	6
Eupolymnia nebulosa	Strawberry worm	C	C	1
Lanice conchilega	Sandmason worm	F to C	F	3
Bispira volutacornis	Double crowned fan worm	R to C	O	9
Cirripedia	Barnacles	C	C	1
Paguridae	Hermit crab family	R to C	O	5
Majidae	Spider crab family	P to C	O	6
Inachus dorsettensis	Scorpion spider crab	O to C	F	2
Macropodia	A long legged spider crab	R to C	O	2
Cancer pagurus	Edible crab / brown crab /great crab	R to C	O	8
Pholas dactylus	Common piddock	C	C	1
Chartella papyracea	Lesser hornwrack	C	C	1
Ophiura ophiura	Sand brittlestar	R to C	O	3
Aslia lefevrei	Brown crevice sea cucmber	C	C	1
Ciona intestinalis	Yellow rimmed seasquirt	F to C	F	4
Distomus variolosus	Orange sweetcorn/lesser gooseberry seasquirt	C	C	1
Labrus mixtus	Cuckoo wrasse	R to C	O	6
Thorogobius ephippiatus	Leopard-spotted goby	P to C	O	5
Phyllophora crispa	A red seaweed	C	C	1
Dictyopteris membranacea	A brown seaweed	P to C	O	3

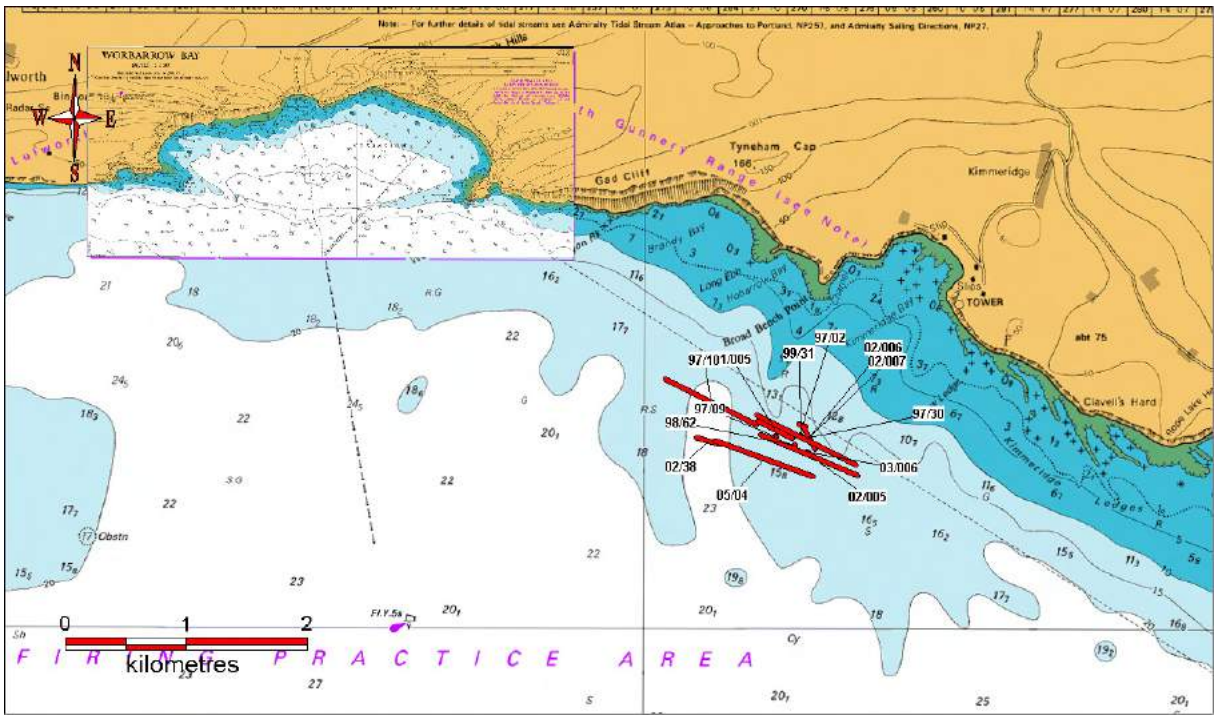
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Algae/Plants				
Phymatolithon calcareum	Maerl	O to P	R	HAP
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	A to P	O	Climate
Chordata				
Ctenolabrus rupestris	Goldsinny	F to P	R	Climate
Centrolabrus exoletus	Rock cook	F	F	Climate
Cnidaria (Corals, anemones, hydroids)				
Eunicella verrucosa	Pink sea fan	R	R	SOCC W&CA NS BAP Climate
Anemonia viridis	Snakelocks anemone	R	R	Climate
Aiptasia mutabilis	Trumpet anemone	C to P	O	SOCC NS
Crustacea				
Maja squinado	Spiny spider crab	F to R	O	Climate
Mollusca				
Ostrea edulis	European oyster	O	O	SOCC BAP
Crepidula fornicata	Slipper limpet	A to O	F	Introduced
Tunicata (sea squirts)				
Styela clava	Stalked seasquirt / leathery seasquirt	R	R	Introduced

Brittlestar beds

Number of Seasearch dives 11

Number of species/groups recorded 106



Physical environment:

Depth range 16-25m

An area of mostly flat shale bedrock, often overlain with a layer of flat shale cobbles. This is the outer section of a ledge which extends out from Broad Bench. The area is exposed to moderate tidal currents which causes small overfalls across the ledge in shallower water. There are a few small stepped ledges but little more than 10-20cm high. To the west the seabed deepens to about 25m and to the east larger ledges, up to 1m high, appear.

Habitat/Community types:

Characterised by dense concentrations of the brittlestar *Ophiothrix fragilis*, covering the seabed. Occasional deadmens fingers and dahlia anemones were the only other obvious animal species and there were patches of encrusting coralline algae on the shale. The boundaries for the brittlestar beds are quite distinct and the overall position of the beds appears relatively constant. To the west, in deeper water, there are reports of *Ampelisca* mats. To the east there are some more prominent ledges with a sponge/hydroid/bryozoan turf.

Observations/Features of Interest:

These brittlestar beds have been known about for at least 30 years so form a persistent seabed feature associated with the ledge running from Broad Bench. The *Ampelisca* mats to the west also appear to be relatively persistent, being recorded in 1997 and 2001.

Recent years have seen several angling boats over this area in the spring - these are targeting black bream. Black bream nests - patches of smooth bedrock swept clear of gravel - have been seen on the seabed in this area.

There were also some reports of scatterings of live maerl alongside some of the higher ledges at the eastern edge of this area.

Recorded biotopes

Infralittoral rock (and other hard substrata)

Kelp and red seaweeds (moderate energy infralittoral rock)

Dense foliose red seaweeds on silty moderately exposed infralittoral rock

Circalittoral rock (and other hard substrata)

Echinoderms and crustose communities

Faunal and algal crusts on exposed to moderately wave-exposed circalittoral rock

Brittlestars on faunal and algal encrusted exposed to moderately wave-
exposed circalittoral rock

Caryophyllia smithii, sponges and crustose communities on wave-exposed circalittoral rock

Brittlestars overlying coralline crusts, *Parasmittina trispinosa* and *Caryophyllia smithii* on wave-exposed circalittoral rock

Mixed faunal turf communities

Sponges and anemones on vertical circalittoral bedrock

Sparse sponges, *Nemertesia* spp. and *Alcyonidium diaphanum* on circalittoral mixed substrata

Bryozoan turf and erect sponges on tide-swept circalittoral rock

Brittlestars, Ophiothrix fragilis near Broad Bench

Ampelisca mat in deeper water west of brittlestar beds

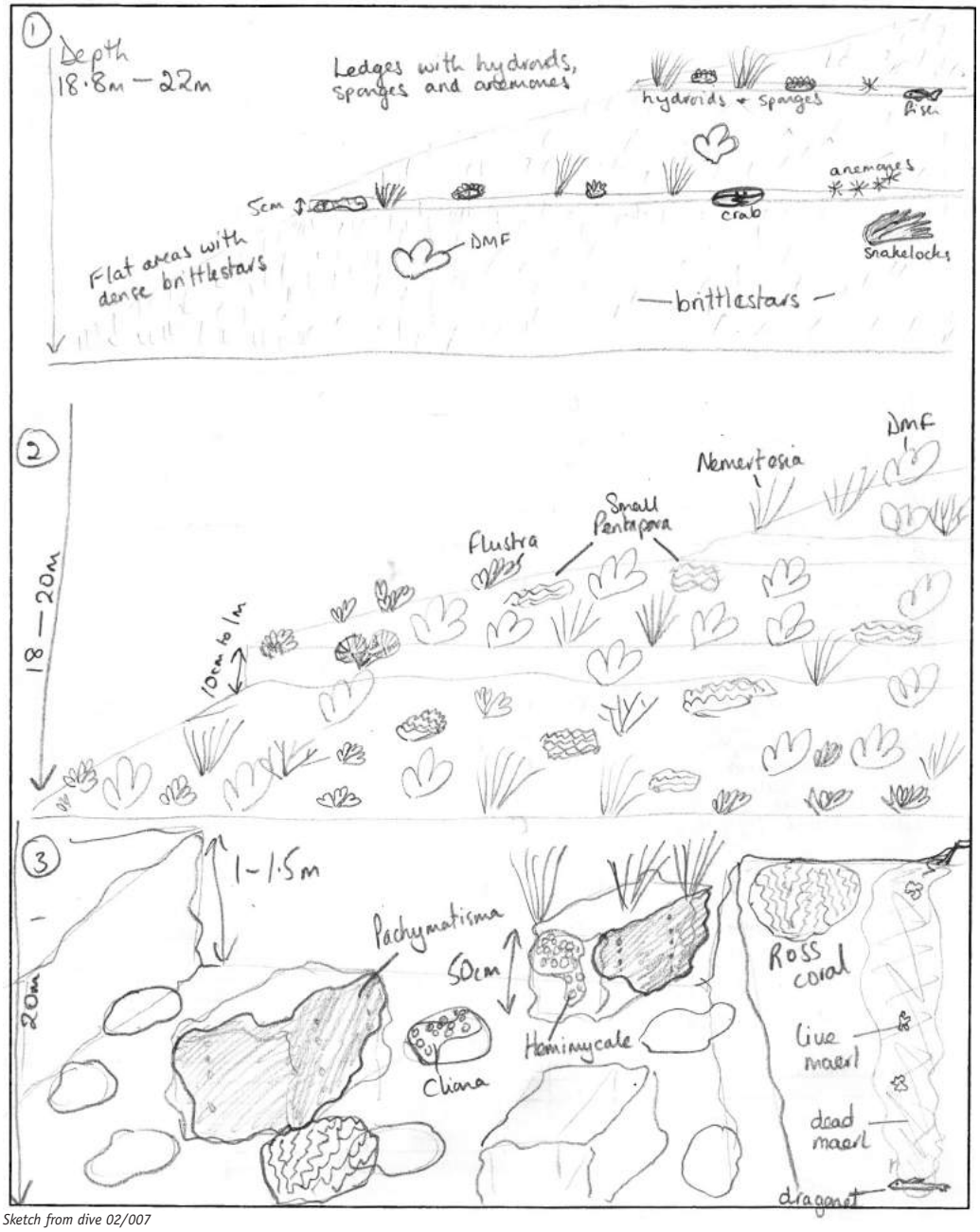
Spider crab on shale bedrock near brittlestar beds

Clearing in brittlestar beds along edge of small ledge

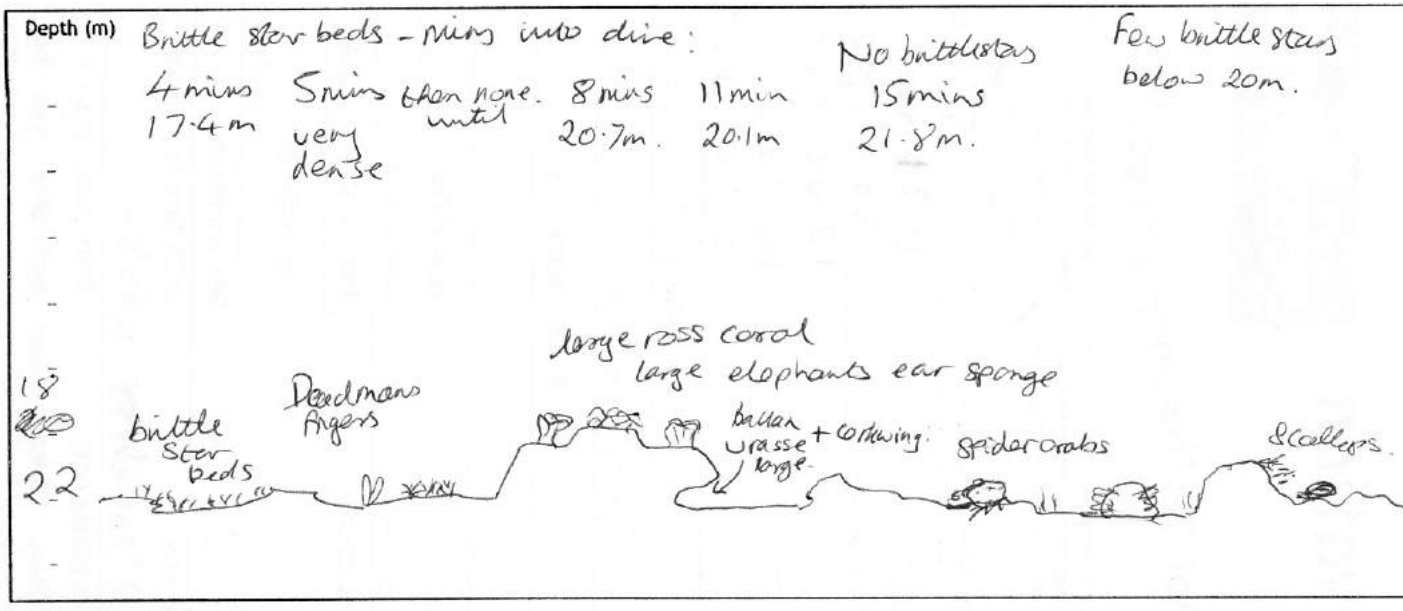
Black bream nest (eggs visible as pale patch) alongside ledge near Broad Benhc

Seasearch diver near ~2m high ledge to east of brittlestar beds

Gurnard, Aspitrigula cuculus, near brittlestar beds



Sketch from dive 02/007



Sketch from dive 02/005

Most frequently recorded species

Number of Seasearch dives	11
Number of species/groups recorded	106

Species	Common name	No. of records	Abundance range
Alcyonium digitatum	Dead man's fingers soft coral	11	P to C
Maja squinado	Spiny spider crab	8	P to C
Cancer pagurus	Edible crab / brown crab /great crab	8	P to O
Pachymatisma johnstonia	Elephant's ear sponge	7	P to C
Flustra foliacea	Hornwrack / leafy bryozoan	7	P to A
Pentapora foliacea	Ross coral/potato crisp bryozoan	7	P to C
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	6	P to O
Urticina	Dahlia anemone	6	P to O
Ophiothrix fragilis	Common/red brittlestar	6	C to S
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	5	P to A
Pectinidae	Scallop family	5	P to O
Anemonia viridis	Snakelocks anemone	5	P to O
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	5	P to C
Hemimycale columella	Pink/orange crater sponge	4	P to F
Labrus bergylta	Ballan wrasse	4	O
Tethya aurantium	Golf ball sponge	4	O
Pecten maximus	Great scallop	4	P to C
Polymastia boletiformis	Chimney ball sponge	3	P to F
Pholadidae	Piddocks	3	P to O
Henricia oculata	Bloody Henry starfish	3	R to O
Labridae	Wrasses	3	R to O
Cliona celata	Sulphur sponge / yellow boring sponge	3	R to O
Trisopterus luscus	Bib/ pouting	3	P to A
Labrus mixtus	Cuckoo wrasse	3	P to F
Corallinaceae	Pink coralline algae	3	P to O
Ctenolabrus rupestris	Goldsinny	3	P to O
Callionymus lyra	Common dragonet	3	P to F
Majidae	Spider crab family	2	P to O

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = S				
Ophiothrix fragilis	Common/red brittlestar	C to S	A	6
Max abundance = A				
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	P to A	O	5
Flustra foliacea	Hornwrack / leafy bryozoan	P to A	O	7
Bugula	A bryozoan	C to A	C	2
Ophiuroidea	Brittlestar family	A	A	2
Trisopterus luscus	Bib/ pouting	P to A	O	3
Max abundance = C				
Pachymatisma johnstonia	Elephant's ear sponge	P to C	O	7
Polymastia	A sponge	F to C	F	2
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	P to C	O	5
Alcyonium digitatum	Dead man's fingers soft coral	P to C	O	11
Maja squinado	Spiny spider crab	P to C	O	8
Pecten maximus	Great scallop	P to C	O	4
Pentapora foliacea	Ross coral/potato crisp bryozoan	P to C	O	7
Max abundance = F				
Polymastia boletiformis	Chimney ball sponge	P to F	R	3
Esperiopsis fucorum	Shredded carrot sponge	F	F	1
Hemimycale columella	Pink/orange crater sponge	P to F	R	4
Nemertesia ramosa	Branched antenna hydroid	O to F	O	2
Cereus pedunculatus	Daisy anemone	O to F	O	2
Crepidula fornicata	Slipper limpet	P to F	R	2
Labrus mixtus	Cuckoo wrasse	P to F	R	3
Callionymus lyra	Common dragonet	P to F	R	3
Dictyota dichotoma	A brown seaweed	O to F	O	2

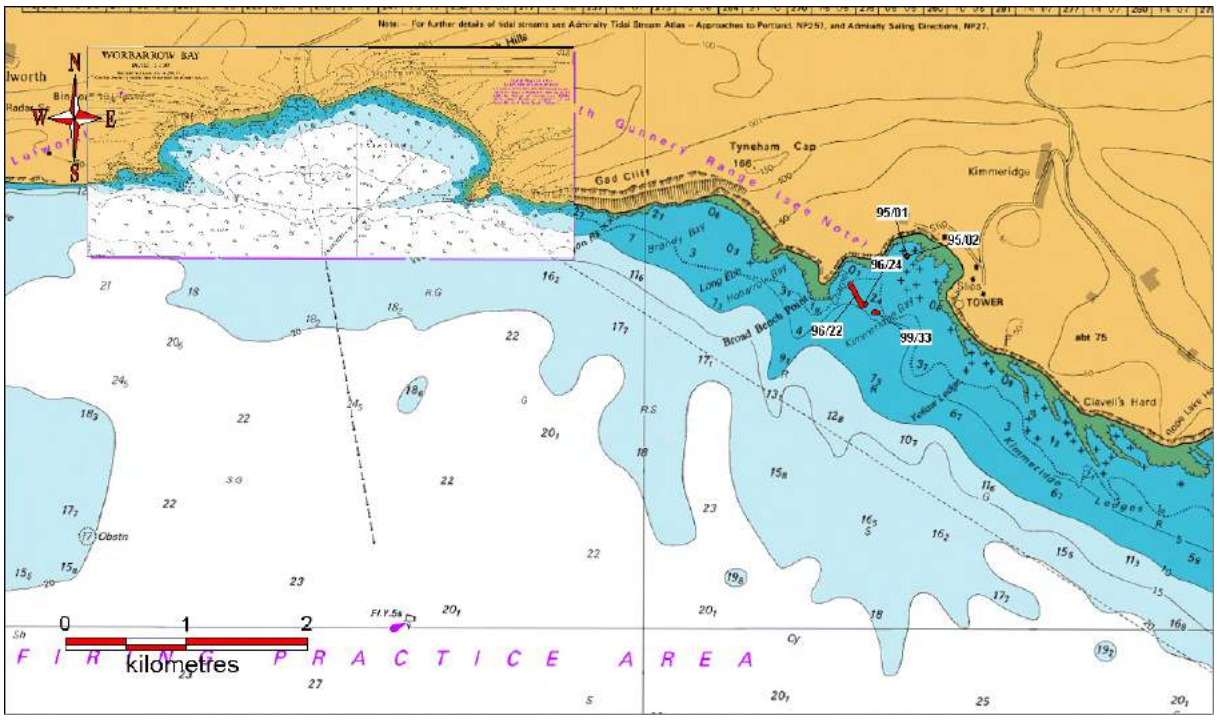
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Algae/Plants				
Phymatolithon calcareum	Maerl	O to R	R	HAP
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	C to P	O	Climate
Chordata				
Ctenolabrus rupestris	Goldsinny	O to P	R	Climate
Cnidaria (Corals, anemones, hydroids)				
Anemonia viridis	Snakelocks anemone	O to P	R	Climate
Aiptasia mutabilis	Trumpet anemone	O	O	SOCC NS
Crustacea				
Maja squinado	Spiny spider crab	C to P	O	Climate
Mollusca				
Crepidula fornicata	Slipper limpet	F to P	R	Introduced
Tunicata (sea squirts)				
Phallusia mammillata	Michelin man seasquirt	R	R	SOCC NS

Kimmeridge Bay

Number of Seasearch dives 5

Number of species/groups recorded 38



Physical environment:

Depth range 0-7m

Shallow rocky seabed with cementstone and shale ledges running NE/SW. Rectangular boulders eroded from the ledges in places and patches of sand in gullies between some of the ledges.

Habitat/Community types:

Seaweed dominated, with kelp on large boulders and some of the ledges and mixed seaweeds, including *Sargassum muticum, Chorda filum, Halidrys siliquosa* and *Fucus serratus*. Wrasses, particularly ballan wrasse, were reported on all dives.

Observations/Features of Interest:

The black-faced blenny, *Tripterygion delaisi*, was spotted on the vertical sides of a ledge in the middle of the bay. This fish is well-known from Portland Harbour breakwater and is regularly spotted under Swanage Pier, but is known from few other sites in the UK. The leopard spotted goby was seen in its typical position at the base of a ledge.

Dorset Wildlife Trust operates a remote underwater video camera in Kimmeridge Bay during settled weather in the summer months - observations from this camera have included corkwing wrasse, *Crenilabrus melops*, building seaweed nests along the rock ledges. Fish species spotted on the camera also include bass, grey mullet, eel, sand smelt, two spot goby, rock goby, shanny, tompot blenny and mackerel.

Recorded biotopes

Sublittoral sediment

Infralittoral coarse sediment

Infralittoral rock (and other hard substrata)

Kelp and red seaweeds (moderate energy infralittoral rock)

Laminaria hyperborea and foliose red seaweeds on moderately exposed infralittoral rock

Laminaria hyperborea park and foliose red seaweeds on moderately exposed lower infralittoral rock

Laminaria hyperborea forest and foliose red seaweeds on moderately exposed upper infralittoral rock

Sediment-affected or disturbed kelp and seaweed communities

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

Laminaria saccharina, Chorda filum and dense red seaweeds on shallow unstable infralittoral boulders or cobbles

Kelp with Cystoseira in the foreground

Ballan wrasse alongside ledge with mixed seaweeds

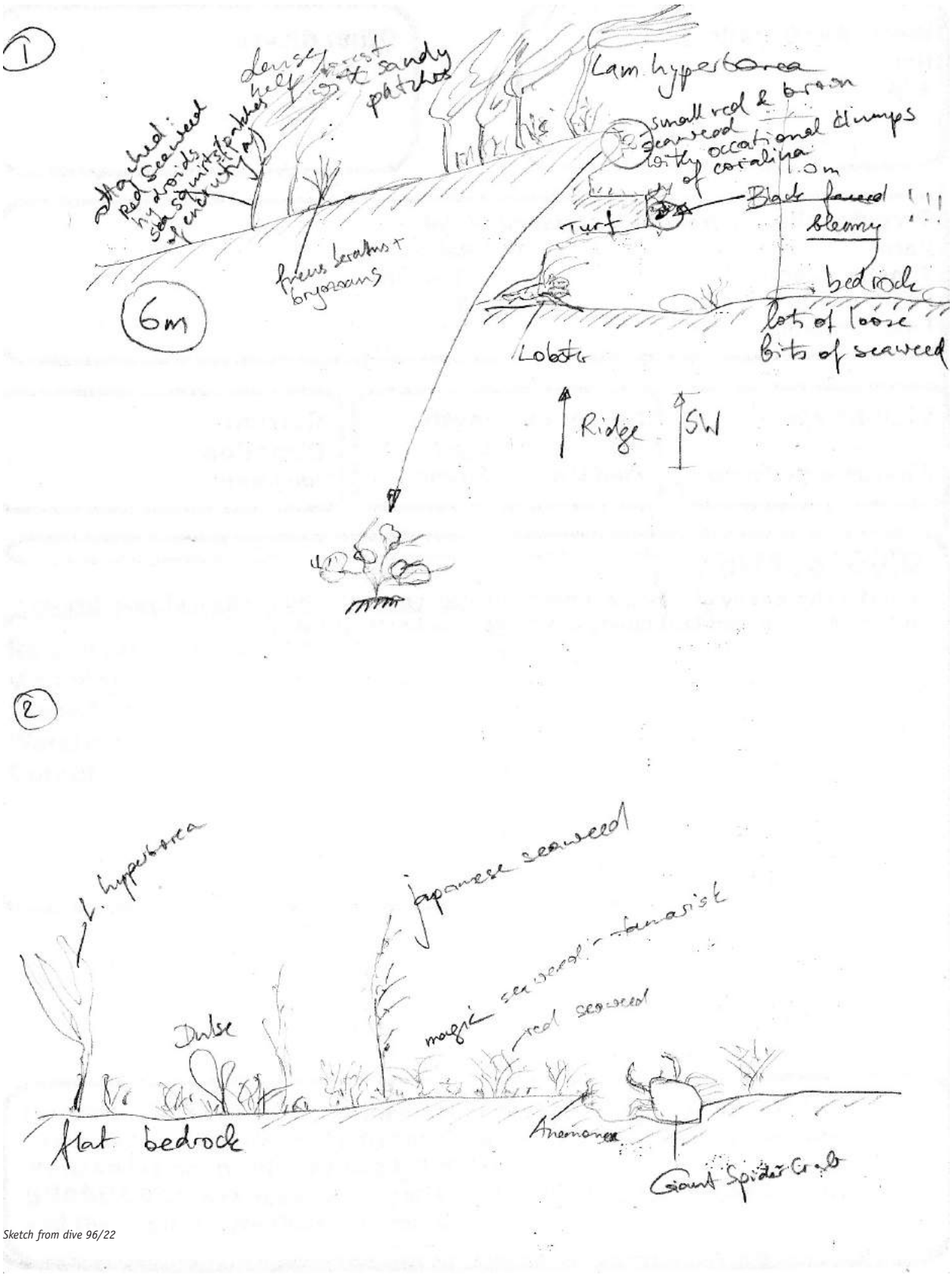
Snakelocks anemones with Corallina officinalis

Mixed seaweeds showing bleaching effect

Side of ledge with mixed seaweeds on top and shorter turf on the side

Dense pockets of Sargassum

Snakelocks anemones adn Sargassum muticum



Sketch from dive 96/22

Most frequently recorded species

Number of Seasearch dives	5
Number of species/groups recorded	38

Species	Common name	No. of records	Abundance range
Labridae	Wrasses	4	P to O
Laminaria hyperborea	Cuvie / northern kelp / forest kelp	3	P to A
Phaeophyceae	Brown seaweeds	2	P
Maja squinado	Spiny spider crab	2	P
Rhodophycota	Red seaweeds	2	P to C
Corallina officinalis	Coral weed / bone weed	2	P to O

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Laminaria hyperborea	Cuvie / northern kelp / forest kelp	P to A	O	3
Max abundance = C				
Bryozoa	Sea mats / moss animals	C	C	1
Rhodophycota	Red seaweeds	P to C	O	2
Fucus serratus	A brown seaweed	C	C	1
Max abundance = O				
Caryophyllia smithii	Devonshire cup coral	O	O	1
Cancer pagurus	Edible crab / brown crab /great crab	O	O	1
Labridae	Wrasses	P to O	R	4
Corallina officinalis	Coral weed / bone weed	P to O	R	2
Laminariaceae	Kelps	O	O	1

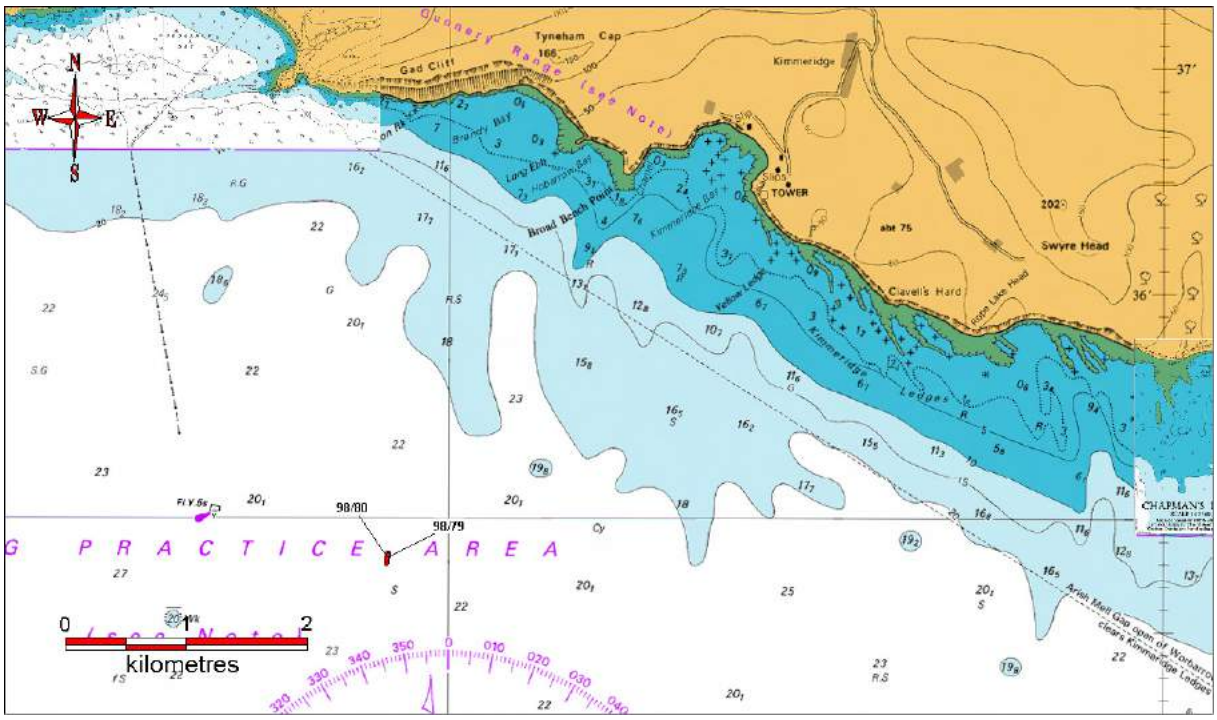
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Algae/Plants				
Sargassum muticum	Japweed / wireweed	P	P	Introduced
Chordata				
Tripterygion delaisi	Black faced blenny	R	R	Climate
Ctenolabrus rupestris	Goldsinny	P	P	Climate
Crustacea				
Maja squinado	Spiny spider crab	P	P	Climate

Offshore Kimmeridge

Number of Seasearch dives 2

Number of species/groups recorded 19



Physical environment:

Depth range 29-30m

Fine clean sand in ripples overlying flat shale bedrock. Occasional patches of bedrock showing through and a few isolated cobbles.

Habitat/Community types:

Dahlia anemones and the sponge *Ciocalypta penicillus* growing through the sand. Other life restricted to occasional small patches of bedrock.

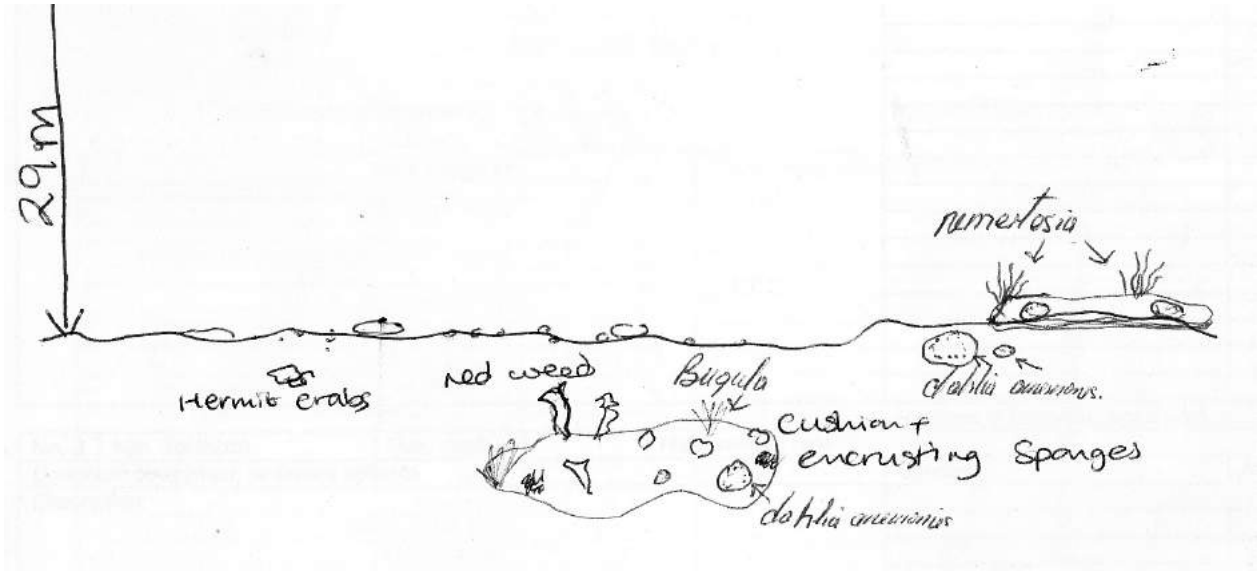
Observations/Features of Interest:

Very few records from this depth and distance from shore. 30m is considered a safe limit for Seasearch diving.

Recorded biotopes

Sublittoral sediment

Circalittoral coarse sediment



Sketch from dive 98/80

Most frequently recorded species

Number of Seasearch dives	2
Number of species/groups recorded	19

Species	Common name	No. of records	Abundance range
Paguridae	Hermit crab family	2	F to C
Ciocalypta penicillus	Tapered chimney sponge	2	O to C
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	2	R
Urticina	Dahlia anemone	2	O to F
Rhodophycota	Red seaweeds	1	O
Raspailia	A sponge	1	O
Pomatoschistus minutus	Sand goby	1	O
Pholadidae	Piddocks	1	R
Sepiola atlantica	Little cuttlefish	1	R
Sertularia	A hydroid	1	F
Bugula	A bryozoan	1	O
Lanice conchilega	Sandmason worm	1	O
Gobiidae	Goby family	1	R
Flustra foliacea	Hornwrack / leafy bryozoan	1	R
Doto	A sea slug	1	R
Corallinaceae	Pink coralline algae	1	R
Cirripedia	Barnacles	1	F
Tubularia	A hydroid	1	R
Phaeophyceae	Brown seaweeds	1	O

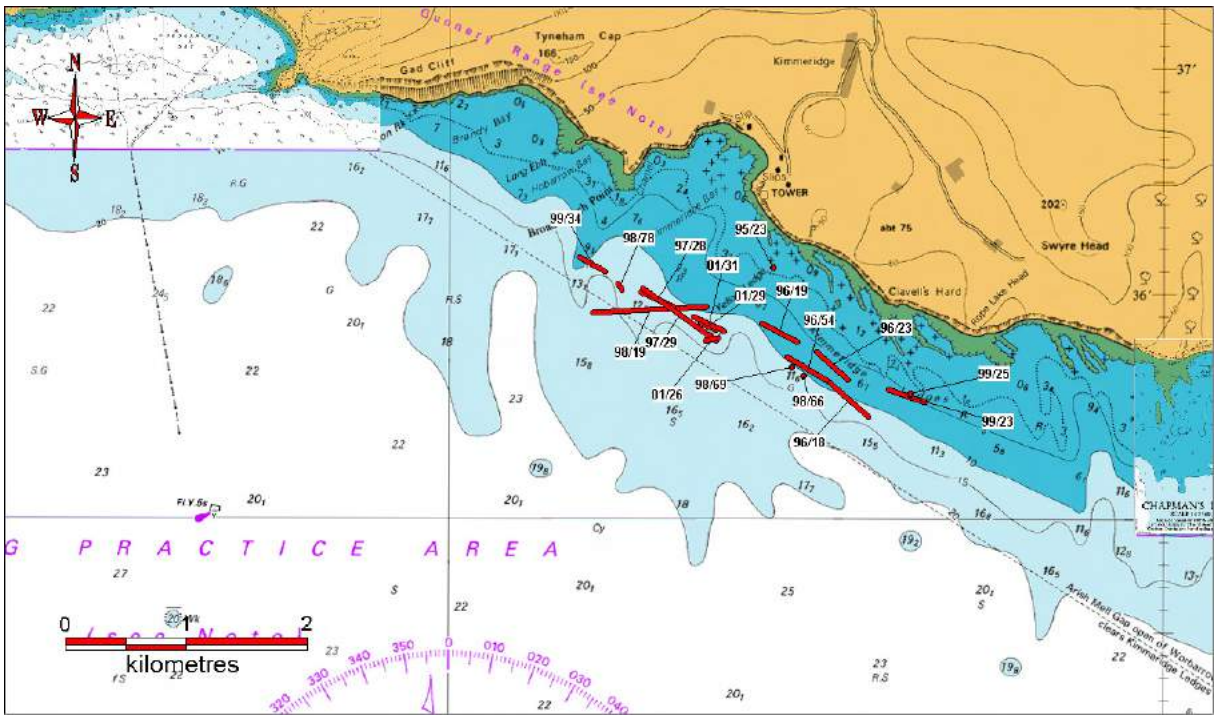
Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = C				
Ciocalypta penicillus	Tapered chimney sponge	O to C	F	2
Paguridae	Hermit crab family	F to C	F	2
Max abundance = F				
Sertularia	A hydroid	F	F	1
Urticina	Dahlia anemone	O to F	O	2
Cirripedia	Barnacles	F	F	1
Max abundance = O				
Raspailia	A sponge	O	O	1
Lanice conchilega	Sandmason worm	O	O	1
Bugula	A bryozoan	O	O	1
Pomatoschistus minutus	Sand goby	O	O	1
Rhodophycota	Red seaweeds	O	O	1
Phaeophyceae	Brown seaweeds	O	O	1

Kimmeridge Ledges

Number of Seasearch dives 16

Number of species/groups recorded 97



Physical environment:

Depth range 9-17m

Mostly flat shale bedrock with shallow ledges or square-sided gullies, largely reflecting the structure of intertidal ledges . Pockets of loose, flat shale cobbles, especially along the bottom of ledges/gullies. Large, rectangular blocks sitting on the bedrock in some places.

Habitat/Community types:

Much of the shallow areas are covered in kelp forest mixed with the brown seaweed *Halidrys*. The hydroid *Aglaophenia* was often associated with *Halidrys*. In slightly deeper water this was replaced by a mixed red/brown algal cover, with *Calliblepharis ciliata* dominant. Gullies and bases of ledges often mostly bare with loose shale cobbles - little life other than encrusting algae. Vertical rock faces with sponges, bryozoans and hydroids. The deeper sites tended to be fairly barren flat rock with deadmens fingers, ross coral colonies and some sponges. Fish included five wrasse species, pollack and bass. Widespread evidence of boring by piddocks.

Observations/Features of Interest:

The strawberry sea-squirt, *Distomus variolosus*, was often recorded growing on the kelp stipes. The unusual brown seaweed, *Zanardinia prototypus*, was recorded here.

Zanardinia prototypus Photo Mike Markey

Recorded biotopes

Sublittoral sediment

Circalittoral mixed sediment

Circalittoral coarse sediment

Infralittoral rock (and other hard substrata)

Kelp and red seaweeds (moderate energy infralittoral rock)

Laminaria hyperborea and foliose red seaweeds on moderately exposed infralittoral rock

Laminaria hyperborea park and foliose red seaweeds on moderately exposed lower infralittoral rock

Laminaria hyperborea forest and foliose red seaweeds on moderately exposed upper infralittoral rock

Sediment-affected or disturbed kelp and seaweed communities

Halidrys siliquosa and mixed kelps on tide-swept infralittoral rock with coarse sediment

Kelp with cushion fauna and/or foliose red seaweeds

Foliose red seaweeds on exposed lower infralittoral rock

Foliose red seaweeds with dense *Dictyota dichotoma* and/or *Dictyopteris membranacea* on exposed lower infralittoral rock

Circalittoral rock (and other hard substrata)

Echinoderms and crustose communities

Faunal and algal crusts on exposed to moderately wave-exposed circalittoral rock

Mixed faunal turf communities

Sponges and anemones on vertical circalittoral bedrock

Most frequently recorded species

Number of Seasearch dives	16
Number of species/groups recorded	97

Species	Common name	No. of records	Abundance range
Halidrys siliquosa	Pod weed / sea oak	13	P to S
Anemonia viridis	Snakelocks anemone	8	P to C
Alcyonium digitatum	Dead man's fingers soft coral	7	P to C
Aplysia punctata	Red sea hare	7	P to C
Laminaria hyperborea	Cuvie / northern kelp / forest kelp	7	P to A
Labrus bergylta	Ballan wrasse	6	O
Dilsea carnosa	Red rags / red leather weed	5	P to O
Botryllus schlosseri	Star seasquirt	5	P to O
Pentapora foliacea	Ross coral/potato crisp bryozoan	5	P to O
Porifera	Sponges	5	P to F
Rhodophycota	Red seaweeds	5	P to A
Parablennius gattorugine	Tompot blenny	4	R to F
Pachymatisma johnstonia	Elephant's ear sponge	4	P to F
Labridae	Wrasses	4	P to F
Pholadidae	Piddocks	4	P to C
Dictyopteris membranacea	A brown seaweed	4	F to C
Delesseria sanguinea	Sea beech	4	P to C
Cancer pagurus	Edible crab / brown crab /great crab	4	P to O
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	4	O to F
Calliblepharis ciliata	Red fringe weed	4	F to C
Henricia oculata	Bloody Henry starfish	4	R to O
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	3	R to O
Zanardinia prototypus	Penny weed	3	R to O
Labrus mixtus	Cuckoo wrasse	3	R to O
Hemimycale columella	Pink/orange crater sponge	3	O to F
Maja squinado	Spiny spider crab	3	R to O
Dictyota dichotoma	A brown seaweed	3	F to C
Centrolabrus exoletus	Rock cook	3	P to O
Bispira volutacornis	Double crowned fan worm	3	P to O
Trochidae	Topshells	3	P to F
Trisopterus luscus	Bib/ pouting	3	O to F
Bugula	A bryozoan	3	P to C

Species sorted by maximum recorded abundance

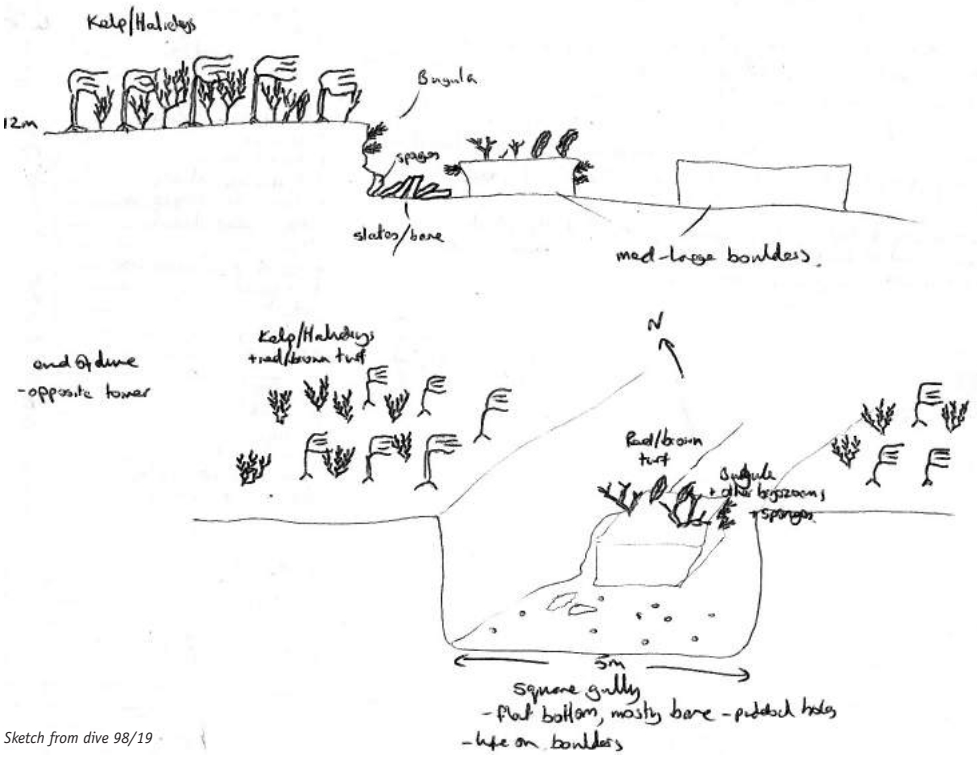
Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = S				
Halidrys siliquosa	Pod weed / sea oak	P to S	F	13
Max abundance = A				
Cirripedia	Barnacles	O to A	F	2
Crisiidae	Bryozoans	A	A	1
Rhodophycota	Red seaweeds	P to A	O	5
Laminariaceae	Kelps	O to A	F	2
Laminaria	Kelp	C to A	C	2
Laminaria hyperborea	Cuvie / northern kelp / forest kelp	P to A	O	7
Max abundance = C				
Polymastia	A sponge	C	C	1
Aglaophenia pluma	A hydroid	C	C	1
Alcyonium digitatum	Dead man's fingers soft coral	P to C	O	7
Anemonia viridis	Snakelocks anemone	P to C	O	8
Sagartia	An anemone	C	C	1
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	O to C	F	2
Aplysia punctata	Red sea hare	P to C	O	7
Pholadidae	Piddocks	P to C	O	4
Bugula	A bryozoan	P to C	O	3
Didemnidae	Sea squirts	C	C	1
Calliblepharis ciliata	Red fringe weed	F to C	F	4
Phyllophora crispa	A red seaweed	C	C	1
Delesseria sanguinea	Sea beech	P to C	O	4
Dictyopteris membranacea	A brown seaweed	F to C	F	4
Dictyota dichotoma	A brown seaweed	F to C	F	3
Laminaria digitata	Paddle weed / oar weed / tangle/ kelp	C	C	2
Max abundance = F				
Porifera	Sponges	P to F	R	5
Pachymatisma johnstonia	Elephant's ear sponge	P to F	R	4
Hemimycale columella	Pink/orange crater sponge	O to F	O	3
Hydrozoa	Hydroids/ sea firs	O to F	O	2
Trochidae	Topshells	P to F	R	3
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	O to F	O	4
Distomus variolosus	Orange sweetcorn/lesser gooseberry seasquirt	P to F	R	2
Pollachius pollachius	Pollack	F	F	1
Trisopterus luscus	Bib/ pouting	O to F	O	3
Labridae	Wrasses	P to F	R	4
Blenniidae	Blenny family	R to F	O	2
Parablennius gattorugine	Tompot blenny	R to F	O	4
Pomatoschistus minutus	Sand goby	F	F	1
Brongniartella byssoides	A red seaweed	F	F	1
Taonia atomaria	Dotted peacock weed	F	F	1

Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Algae/Plants				
Zanardinia prototypus	Penny weed	O to R	R	SOCC NS Climate
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	O to P	R	Climate
Chordata				
Ctenolabrus rupestris	Goldsinny	O	O	Climate
Centrolabrus exoletus	Rock cook	O to P	R	Climate
Cnidaria (Corals, anemones, hydroids)				
Anemonia viridis	Snakelocks anemone	C to P	O	Climate
Aiptasia mutabilis	Trumpet anemone	O	O	SOCC NS
Crustacea				
Maja squinado	Spiny spider crab	O to R	R	Climate

Kelp and Halidrys

Bispira and encrusting sponges on piddock-bored shale Photo Mike Markey

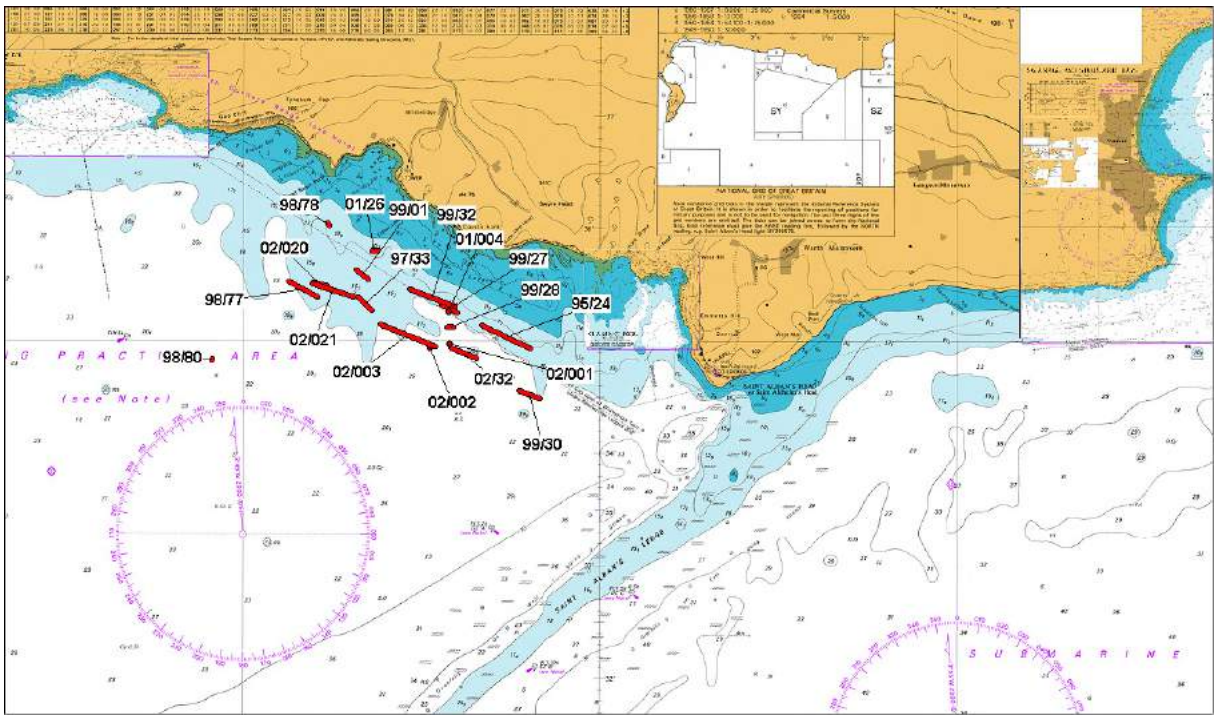


Sketch from dive 98/19

Off Kimmeridge Ledges

Number of Seasearch dives 18

Number of species/groups recorded 105



Physical environment:

Depth range 15-26m

Flat shale bedrock with small ledges, rarely as much as 1m high. Record 02/020 reported a 2m high stepped ledge with overhangs and square vertical faces, half way through the dive. Sometimes a covering of shell gravel or small, flat shale pebbles over the rock.

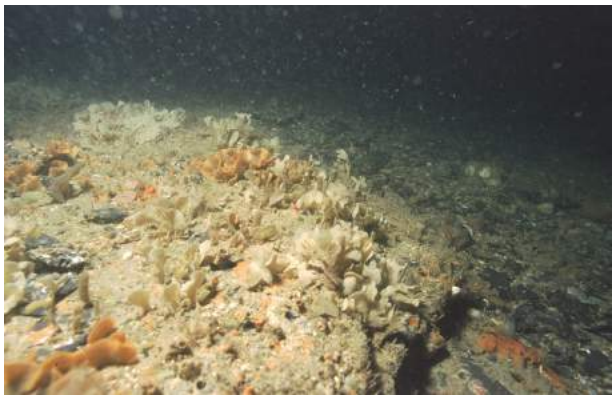
Habitat/Community types:

Mostly a *Flustra* dominated turf with deadmens fingers, ross coral colonies and sponges including *Pachymatisma johnstonia, Tethya* and *Polymastia*. Edges of small ledges often with richer cover, particularly sponges and hydroids. Piddock boring very evident and recently eroded, bare rock often encountered.

Some rectangular boulders with bryozoan turf and patches of *Actinothoe* anemones.

Observations/Features of Interest:

The last few minutes of dive 02/020 were over *Ampelisca* mats, reported as "finger deep". This habitat is known from Swanage Bay and to the west of the brittlestar beds off Broad Bench.



Flustra and Pentapora on edge of small ledge

Recorded biotopes

Sublittoral sediment

Infralittoral sandy mud

Ampelisca spp., Photis longicaudata and other tube-building amphipods and polychaetes in infralittoral sandy mud

Circalittoral coarse sediment

Infralittoral rock (and other hard substrata)

Sediment-affected or disturbed kelp and seaweed communities

Halidrys siliquosa and mixed kelps on tide-swept infralittoral rock with coarse sediment

Circalittoral rock (and other hard substrata)

Soft rock communities

Echinoderms and crustose communities

Faunal and algal crusts on exposed to moderately wave-exposed circalittoral rock

Flustra foliacea on slightly scoured silty circalittoral rock

Mixed faunal turf communities

Sponges and anemones on vertical circalittoral bedrock

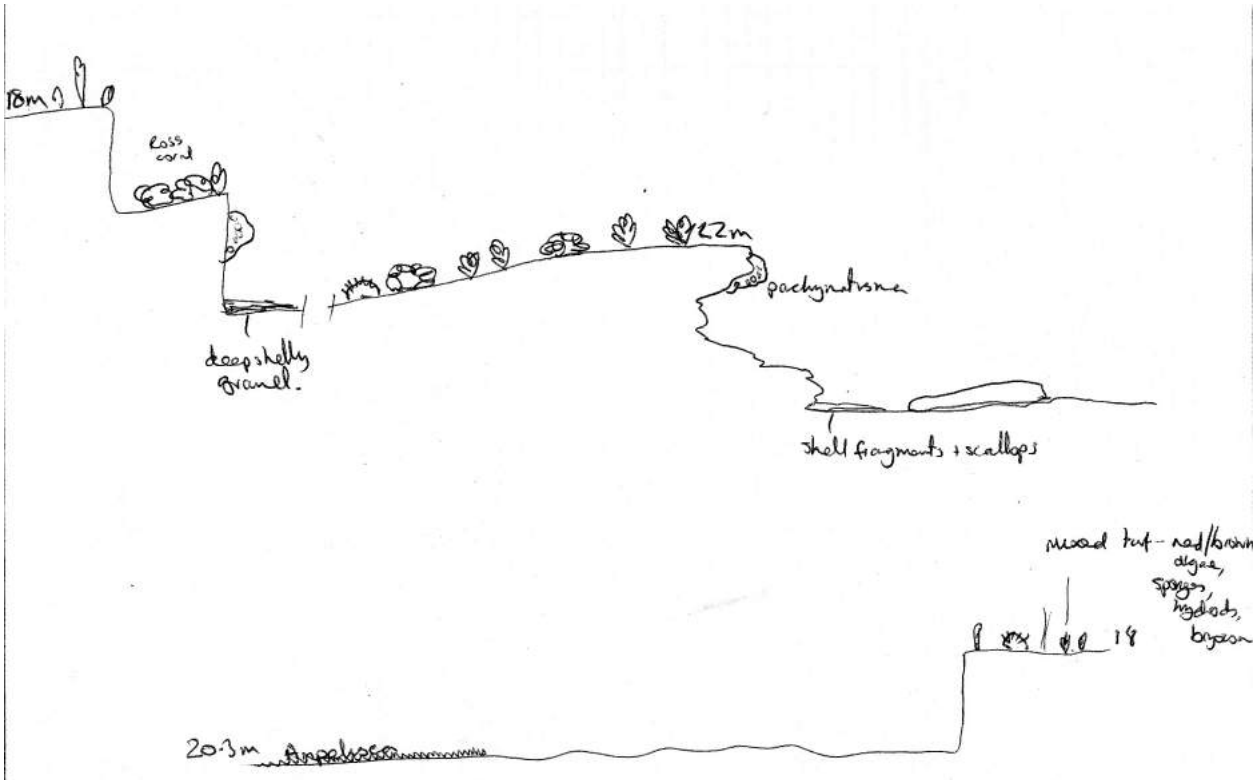
Sparse sponges, *Nemertesia* spp. and *Alcyonidium diaphanum* on circalittoral mixed substrata

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

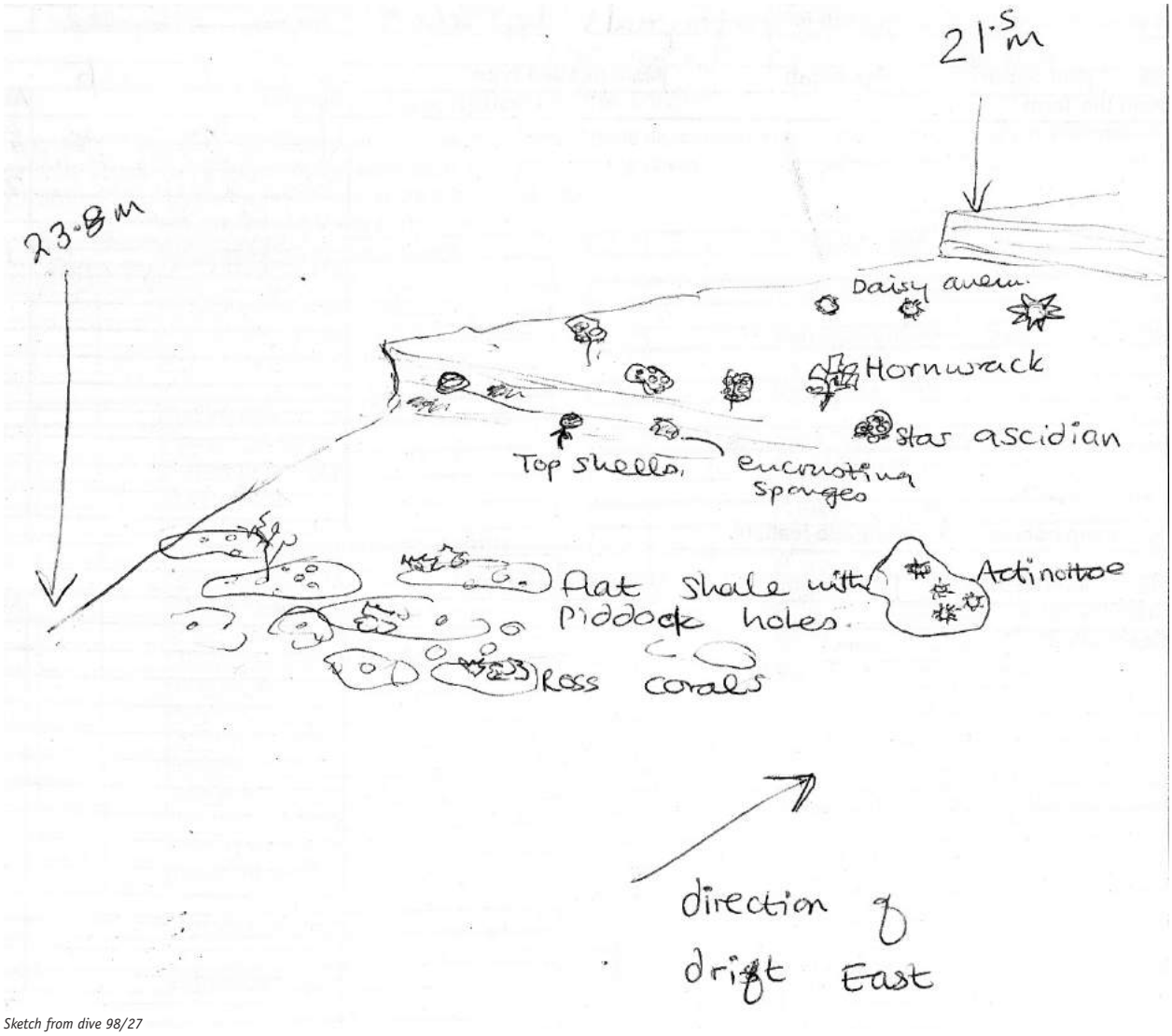
Flustra foliacea, small solitary and colonial ascidians on tide-swept circalittoral bedrock or boulders

Bryozoan turf and erect sponges on tide-swept circalittoral rock

Mixed turf of bryozoans and erect sponges with *Dysidia fragilis* and *Actinothoe sphyrodeta* on tide-swept wave-exposed circalittoral rock



Sketch from dive 02/020



Sketch from dive 98/27

Most frequently recorded species

Number of Seasearch dives	18
Number of species/groups recorded	105

Species	Common name	No. of records	Abundance range
Pentapora foliacea	Ross coral/potato crisp bryozoan	16	P to A
Flustra foliacea	Hornwrack / leafy bryozoan	16	P to A
Alcyonium digitatum	Dead man's fingers soft coral	15	P to C
Urticina	Dahlia anemone	13	P to C
Cancer pagurus	Edible crab / brown crab /great crab	11	P to F
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	11	P to F
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	11	P to F
Pachymatisma johnstonia	Elephant's ear sponge	10	P to F
Pecten maximus	Great scallop	8	R to F
Henricia oculata	Bloody Henry starfish	8	R to F
Bispira volutacornis	Double crowned fan worm	7	P to F
Porifera	Sponges	7	R to C
Botryllus schlosseri	Star seasquirt	7	R to F
Cereus pedunculatus	Daisy anemone	7	P to F
Labrus bergylta	Ballan wrasse	7	R to C
Rhodophycota	Red seaweeds	6	O to F
Hydrozoa	Hydroids/ sea firs	6	P to F
Tethya aurantium	Golf ball sponge	6	P to O
Dysidea fragilis	Goose bump/hedgehog sponge	6	R to A
Polymastia boletiformis	Chimney ball sponge	6	O to C
Pholadidae	Piddocks	6	P to O
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	5	R to C
Corallinaceae	Pink coralline algae	5	R to O
Ctenolabrus rupestris	Goldsinny	5	R to F
Maja squinado	Spiny spider crab	5	R to O
Trisopterus luscus	Bib/ pouting	5	R to C
Ciocalypta penicillus	Chimney sponge	4	P to O
Aequipecten opercularis	Queen scallop or queenie	4	O to A
Polymastia	A sponge	4	P to F
Halecium halecinum	Herringbone hydroid	4	O
Cirripedia	Barnacles	4	P to A
Alcyonidium diaphanum	Jelly baby/finger bryozoan / sea chervil/ Dogger Bank itch	4	P to F
Crepidula fornicata	Slipper limpet	4	O
Labrus mixtus	Cuckoo wrasse	4	R to F

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Dysidea fragilis	Goose bump/hedgehog sponge	R to A	F	6
Cirripedia	Barnacles	P to A	O	4
Aequipecten opercularis	Queen scallop or queenie	O to A	F	4
Flustra foliacea	Hornwrack / leafy bryozoan	P to A	O	16
Pentapora foliacea	Ross coral/potato crisp bryozoan	P to A	O	16
Molgula manhattensis	Silty chimney seasquirt	A	A	1
Max abundance = C				
Porifera	Sponges	R to C	O	7
Polymastia boletiformis	Chimney ball sponge	O to C	F	6
Hemimycale columella	Pink/orange crater sponge	F to C	F	2
Kirchenpaueria pinnata	A hydroid	O to C	F	2
Alcyonium digitatum	Dead man's fingers soft coral	P to C	O	15
Urticina	Dahlia anemone	P to C	O	13
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	R to C	O	5
Pholas dactylus	Common piddock	C	C	1
Stolonica socialis	Baked bean / sociable seasquirt / orange sea grapes	R to C	O	3
Trisopterus luscus	Bib/ pouting	R to C	O	5
Labrus bergylta	Ballan wrasse	R to C	O	7
Callionymus lyra	Common dragonet	O to C	F	2
Dictyopteris membranacea	A brown seaweed	O to C	F	3
Laminaria digitata	Paddle weed / oar weed / tangle/ kelp	C	C	1
Max abundance = F				
Pachymatisma johnstonia	Elephant's ear sponge	P to F	R	10
Polymastia	A sponge	P to F	R	4
Axinella dissimilis	Yellow staghorn sponge	F	F	1
Hydrozoa	Hydroids/ sea firs	P to F	R	6
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	P to F	R	11
Cereus pedunculatus	Daisy anemone	P to F	R	7
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	P to F	R	11
Bispira volutacornis	Double crowned fan worm	P to F	R	7
Salmacina dysteri	Spaghetti/coral worm	O to F	O	2
Paguridae	Hermit crab family	R to F	O	2
Cancer pagurus	Edible crab / brown crab /great crab	P to F	R	11
Pecten maximus	Great scallop	R to F	O	8
Bryozoa	Sea mats / moss animals	O to F	O	1
Crisia	White claw sea moss/ crispy threads bryozoan	O to F	O	2
Alcyonidium diaphanum	Jelly baby/finger bryozoan / sea chervil/ Dogger Bank itch	P to F	R	4
Henricia oculata	Bloody Henry starfish	R to F	O	8
Botryllus schlosseri	Star seasquirt	R to F	O	7

Crenilabrus melops	Corkwing	R to F	O	3
Ctenolabrus rupestris	Goldsinny	R to F	O	5
Labrus mixtus	Cuckoo wrasse	R to F	O	4
Parablennius gattorugine	Tompot blenny	R to F	O	3
Pomatoschistus minutus	Sand goby	R to F	O	3
Rhodophycota	Red seaweeds	O to F	O	6
Rhodymenia holmesii	A red seaweed	F	F	1
Phaeophyceae	Brown seaweeds	O to F	O	2

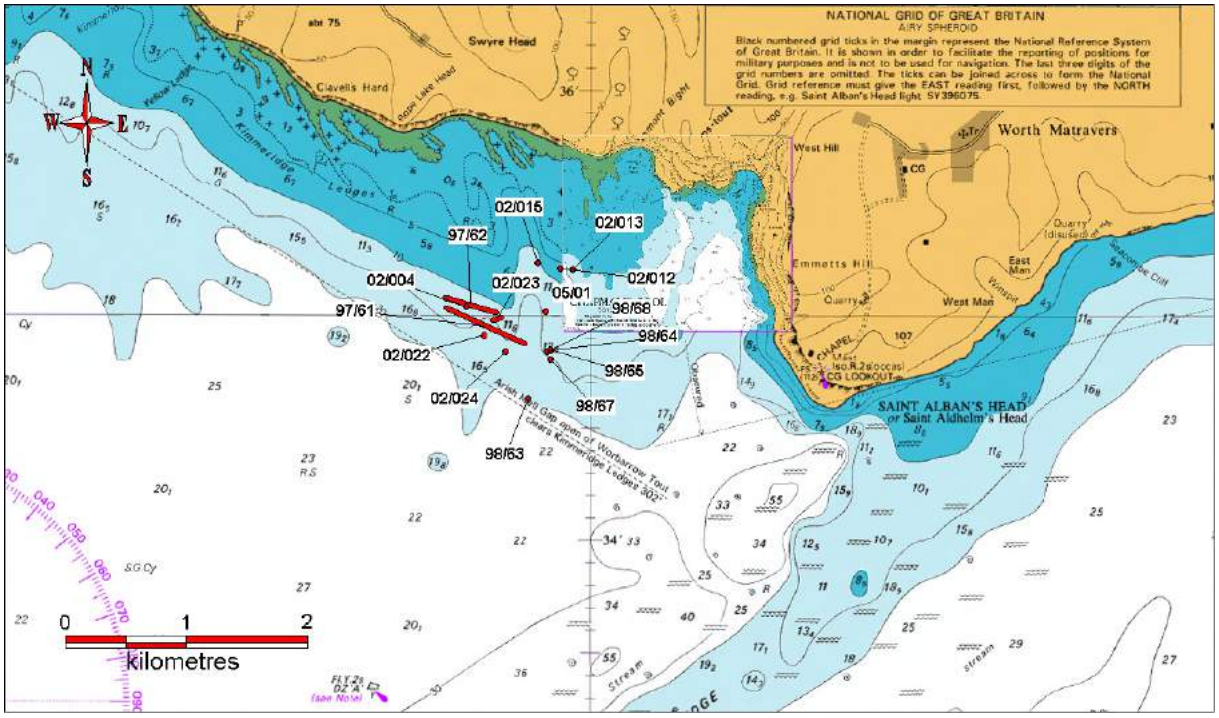
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Algae/Plants				
Zanardinia prototypus	Penny weed	O to R	R	SOCC NS Climate
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	O to P	R	Climate
Chordata				
Ctenolabrus rupestris	Goldsinny	O	O	Climate
Centrolabrus exoletus	Rock cook	O to P	R	Climate
Cnidaria (Corals, anemones, hydroids)				
Anemonia viridis	Snakelocks anemone	C to P	O	Climate
Aiptasia mutabilis	Trumpet anemone	O	O	SOCC NS
Crustacea				
Maja squinado	Spiny spider crab	O to R	R	Climate

Egmont Bight

Number of Seasearch dives 14

Number of species/groups recorded 99



Physical environment:

Depth range 7-23m

An area of flat shale seabed with large boulders. To the west is a 2-4m high ledge facing east and to the north is an area of large limestone blocks known as the "seabed caves". In places these blocks lie in a loose jumble with deep overhangs and swim-throughs (the "caves"), in other areas they form a level pavement but with deep, narrow fissures in between the blocks.

Habitat/Community types:

Shallower sites featured a kelp/*Halidrys* community with other brown seaweeds such as *Desmarestia* and *Dictyota/Dictyopteris*. Kelp holdfasts were overgrown with tunicates and hydroids with the strawberry sea-squirt, *Distomus variolosus* on the stipes. The hydroid *Aglaophenia pluma* was frequently growing on *Halidrys*.

The so-called "seabed caves" are in an area of limestone overlying Kimmeridge Clay. Deep fissures have eroded between large blocks of limestone, often only wide enough for the plentiful wrasse to swim through. The upper surfaces are covered with a red/brown algal turf and the sponge, *Polymastia boletiformis*.

In deeper water further south the flat shale seabed is fairly barren in places, especially where covered in shale cobbles. Large boulders scattered here are covered in a short algal turf with *Polymastia*.

To the west is a vertical ledge up to 4m high with sponges, *Bispira* fanworms and red algae on the vertical edge, hydroids, sponges and *Flustra* on the top.

Observations/Features of Interest:

The "cave" areas are particularly interesting and are a popular local dive site. The roofs of some of the deeper overhangs were found to contain the Weymouth Carpet Coral, *Hoplangia durotrix*.

Recorded biotopes

Infralittoral rock (and other hard substrata)

Kelp and red seaweeds (moderate energy infralittoral rock)

Laminaria hyperborea and foliose red seaweeds on moderately exposed infralittoral rock

Laminaria hyperborea park and foliose red seaweeds on moderately exposed lower infralittoral rock

Sediment-affected or disturbed kelp and seaweed communities

Halidrys siliquosa and mixed kelps on tide-swept infralittoral rock with coarse sediment

Kelp with cushion fauna and/or foliose red seaweeds

Foliose red seaweeds on exposed lower infralittoral rock

Foliose red seaweeds with dense *Dictyota dichotoma* and/or *Dictyopteris membranacea* on exposed lower infralittoral rock

Circalittoral rock (and other hard substrata)

Echinoderms and crustose communities

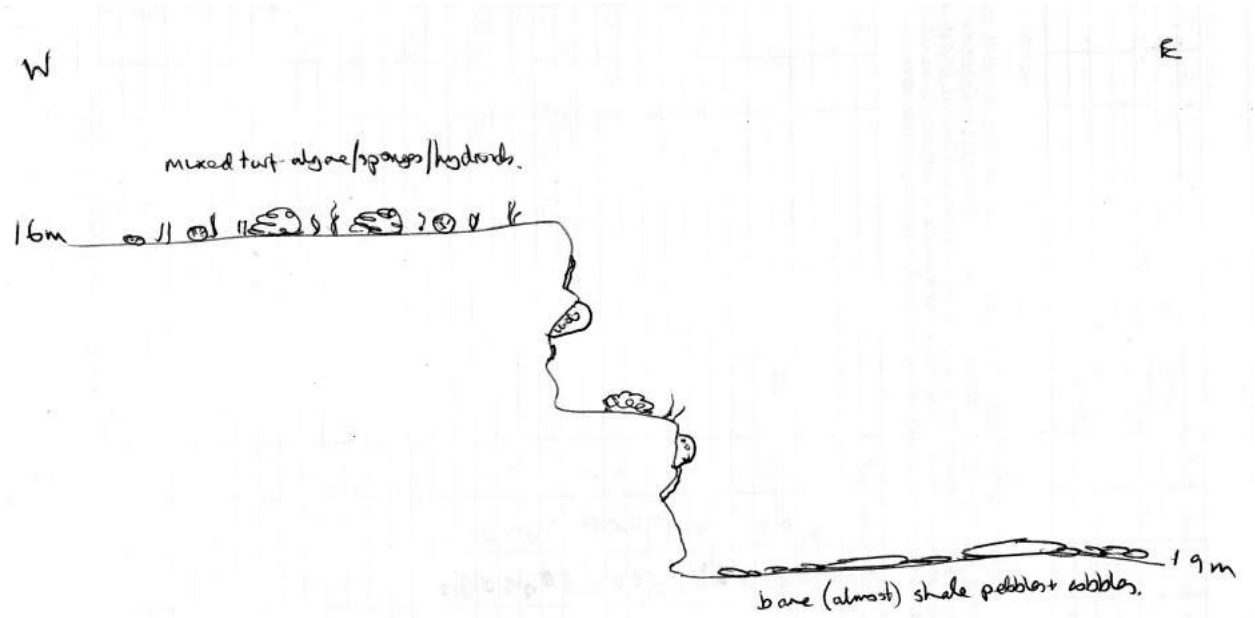
Faunal and algal crusts on exposed to moderately wave-exposed circalittoral rock

Flustra foliacea on slightly scoured silty circalittoral rock

Mixed faunal turf communities

Sponges and anemones on vertical circalittoral bedrock

Circalittoral caves and overhangs



Sketch from dive 02/024

Kelp with Desmarestia in the foreground. Distomus visible of the kelp stipes

Small rock ledge

Limestone ledge lying on heavily piddock-bored shale

Large boulder lying on shale

Most frequently recorded species

Number of Seasearch dives	14
Number of species/groups recorded	99

Species	Common name	No. of records	Abundance range
Henricia oculata	Bloody Henry starfish	10	P to O
Bispira volutacornis	Double crowned fan worm	10	R to C
Botryllus schlosseri	Star seasquirt	8	P to A
Labrus bergylta	Ballan wrasse	8	P to C
Pachymatisma johnstonia	Elephant's ear sponge	8	O to C
Anemonia viridis	Snakelocks anemone	6	O to C
Ctenolabrus rupestris	Goldsinny	6	P to O
Dysidea fragilis	Goose bump/hedgehog sponge	6	P to C
Flustra foliacea	Hornwrack / leafy bryozoan	6	R to A
Hemimycale columella	Pink/orange crater sponge	6	P to C
Parablennius gattorugine	Tompot blenny	6	R to C
Pentapora foliacea	Ross coral/potato crisp bryozoan	6	R to C
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	5	O to F
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	5	R to C
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	5	O to A
Alcyonium digitatum	Dead man's fingers soft coral	5	R to O
Halidrys siliquosa	Pod weed / sea oak	4	F to A
Corallinaceae	Pink coralline algae	4	O to C
Cancer pagurus	Edible crab / brown crab /great crab	4	R to O
Tethya aurantium	Golf ball sponge	3	O
Laminaria	Kelp	3	O to C
Trisopterus luscus	Bib/ pouting	3	O
Esperiopsis fucorum	Shredded carrot sponge	3	P to O
Homarus gammarus	Common lobster	3	R to O
Thorogobius ephippiatus	Leopard-spotted goby	3	R to O
Dictyota dichotoma	A brown seaweed	3	O to A
Labrus mixtus	Cuckoo wrasse	3	R to O
Majidae	Spider crab family	3	R to O
Polymastia boletiformis	Chimney ball sponge	3	O to F
Pollachius pollachius	Pollack	3	O to C
Rhodophycota	Red seaweeds	3	P to F
Trochidae	Topshells	3	O to F

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Polymastia	A sponge	O to A	F	2
Hydrozoa	Hydroids/ sea firs	O to A	F	2
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	O to A	F	5
Aglaophenia	A hydroid	A	A	1
Aglaophenia parvula	A hydroid	A	A	1
Pholadidae	Piddocks	C to A	C	2
Pholas dactylus	Common piddock	A	A	1
Flustra foliacea	Hornwrack / leafy bryozoan	R to A	F	6
Botryllus schlosseri	Star seasquirt	P to A	O	8
Calliblepharis ciliata	Red fringe weed	C to A	C	2
Dictyopteris membranacea	A brown seaweed	A	A	2
Dictyota dichotoma	A brown seaweed	O to A	F	3
Halidrys siliquosa	Pod weed / sea oak	F to A	C	4
Max abundance = C				
Porifera	Sponges	F to C	F	2
Clathrina	White lace sponge	C	C	1
Pachymatisma johnstonia	Elephant's ear sponge	O to C	F	8
Hemimycale columella	Pink/orange crater sponge	P to C	O	6
Dysidea fragilis	Goose bump/hedgehog sponge	P to C	O	6
Anemonia viridis	Snakelocks anemone	O to C	F	6
Aiptasia mutabilis	Trumpet anemone	R to C	O	2
Bispira volutacornis	Double crowned fan worm	R to C	O	10
Gibbula cineraria	Grey top shell	R to C	O	2
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	R to C	O	5
Alcyonidium diaphanum	Jelly baby/finger bryozoan / sea chervil/ Dogger Bank itch	R to C	O	2
Pentapora foliacea	Ross coral/potato crisp bryozoan	R to C	O	6
Pollachius pollachius	Pollack	O to C	F	3
Crenilabrus melops	Corkwing	F to C	F	2
Labrus bergylta	Ballan wrasse	P to C	O	8
Parablennius gattorugine	Tompot blenny	R to C	O	6
Gobiusculus flavescens	Two-spotted goby	O to C	F	2
Corallinaceae	Pink coralline algae	O to C	F	4
Furcellaria	A red algae	C	C	1
Plocamium cartilagineum	Red comb weed / cockscombe / scarlet hair flag	C	C	1
Laminaria	Kelp	O to C	F	3
Max abundance = F				
Polymastia boletiformis	Chimney ball sponge	O to F	O	3
Porifera indet crusts	Sponge crusts	F	F	1
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	O to F	O	5
Hoplangia durotrix	Carpet coral	F	F	1
Trochidae	Topshells	O to F	O	3

Aplysia punctata	Red sea hare	F	F	1
Membranipora membranacea	Kelp sea mat	F	F	1
Aplidium punctum	Single spotted colonial seasquirt	O to F	O	2
Didemnidae	Sea squirts	F	F	1
Rhodophycota	Red seaweeds	P to F	R	3
Delesseria sanguinea	Sea beech	O to F	O	2
Phaeophyceae	Brown seaweeds	O to F	O	1

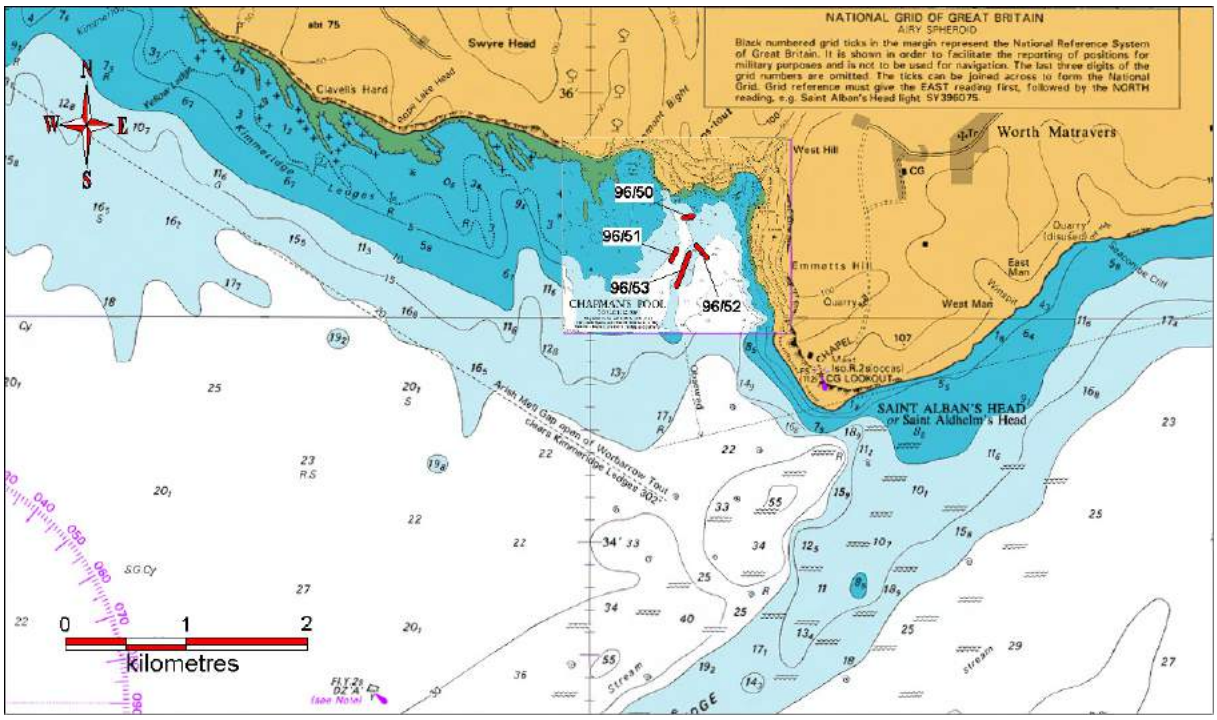
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	C to R	O	Climate
Chordata				
Ctenolabrus rupestris	Goldsinny	O to P	R	Climate
Centrolabrus exoletus	Rock cook	O to R	R	Climate
Cnidaria (Corals, anemones, hydroids)				
Hoplangia durotrix	Carpet coral	F	F	SOCC NR
Anemonia viridis	Snakelocks anemone	C to O	F	Climate
Aiptasia mutabilis	Trumpet anemone	C to R	O	SOCC NS
Crustacea				
Maja squinado	Spiny spider crab	O	O	Climate

Chapmans Pool

Number of Seasearch dives 4

Number of species/groups recorded 36



Physical environment:

Depth range 7-15m

Chapmans Pool is a small cove carved into the soft Kimmeridge shales - here little harder than a clay. Several dives here reveal a crumbly shale seabed heavily bored by piddocks. All sites here appear to be very silty.

Habitat/Community types:

Daisy anemones, *Cereus pedunculatus*, occupied many old piddock holes. Horizontal surfaces were covered with a red algal turf and snakelocks anemones, vertical surfaces with some sponges, including *Dysidea fragilis* and *Oscarella rubra* with occasional patches of encrusting coralline algae. The coral worm *Salmacina/Filograna* was recorded here. Many fish, including ballan wrasse, tompot blennies and dragonets with lots of two-spot gobies and leopard spotted gobies.

Observations/Features of Interest:

The high level of silt here revealed frequent "spider's webs" stretched across the rock face. There was no indication what was making these "webs" or what, if any, function they perform.

In places flat shale/clay cobbles were stacked tightly together in vertical formations.

Recorded biotopes

Infralittoral rock (and other hard substrata)

Kelp and red seaweeds (moderate energy infralittoral rock)

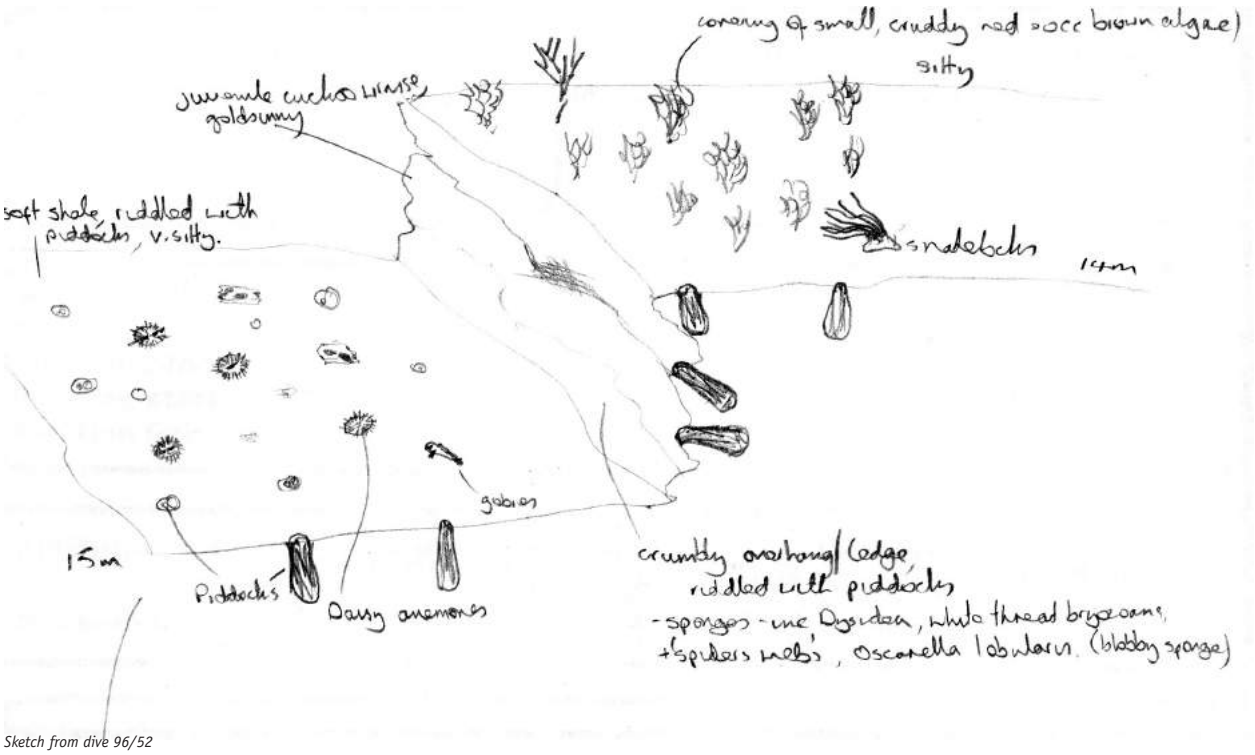
Laminaria hyperborea and foliose red seaweeds on moderately exposed infralittoral rock

Dense foliose red seaweeds on silty moderately exposed infralittoral rock

Sediment-affected or disturbed kelp and seaweed communities

Halidrys siliquosa and mixed kelps on tide-swept infralittoral rock with coarse sediment

Circalittoral rock (and other hard substrata)



Sketch from dive 96/52

Heavily bored shale seabed

"Spider's webs" revealed by silt

Coralworm Salmacina/Filograna

Most frequently recorded species

Number of Seasearch dives	4
Number of species/groups recorded	36

Species	Common name	No. of records	Abundance range
Anemonia viridis	Snakelocks anemone	4	O to A
Gobiusculus flavescens	Two-spotted goby	3	P to C
Thorogobius ephippiatus	Leopard-spotted goby	3	P to A
Labrus bergylta	Ballan wrasse	3	P to F
Callionymus lyra	Common dragonet	2	P to C
Cereus pedunculatus	Daisy anemone	2	P to C
Ctenolabrus rupestris	Goldsinny	2	P
Dysidea fragilis	Goose bump/hedgehog sponge	2	P to O
Halidrys siliquosa	Pod weed / sea oak	2	R to A
Trochidae	Topshells	2	P
Hinia reticulata	Netted dogwhelk	2	P
Labrus mixtus	Cuckoo wrasse	2	P
Pholadidae	Piddocks	2	P to A
Trisopterus luscus	Bib/ pouting	2	P to O
Rhodophycota	Red seaweeds	2	R to C
Parablennius gattorugine	Tompot blenny	2	P
Majidae	Spider crab family	2	P to R

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Anemonia viridis	Snakelocks anemone	O to A	F	4
Pholadidae	Piddocks	P to A	O	2
Thorogobius ephippiatus	Leopard-spotted goby	P to A	O	3
Calliblepharis ciliata	Red fringe weed	A	A	1
Phaeophyceae	Brown seaweeds	A	A	1
Laminaria	Kelp	A	A	1
Laminaria hyperborea	Cuvie / northern kelp / forest kelp	A	A	1
Halidrys siliquosa	Pod weed / sea oak	R to A	F	2
Chlorophyceae	Green seaweeds	A	A	1
Max abundance = C				
Cereus pedunculatus	Daisy anemone	P to C	O	2
Aplysia punctata	Red sea hare	C	C	1
Callionymus lyra	Common dragonet	P to C	O	2
Gobiusculus flavescens	Two-spotted goby	P to C	O	3
Rhodophycota	Red seaweeds	R to C	O	2
Max abundance = F				
Labridae	Wrasses	F	F	1
Labrus bergylta	Ballan wrasse	P to F	R	3

Blenniidae	Blenny family	F	F	1
Max abundance = O				
Halichondria panicea	Breadcrumb sponge	O	O	1
Dysidea fragilis	Goose bump/hedgehog sponge	P to O	R	2
Trisopterus luscus	Bib/ pouting	P to O	R	2

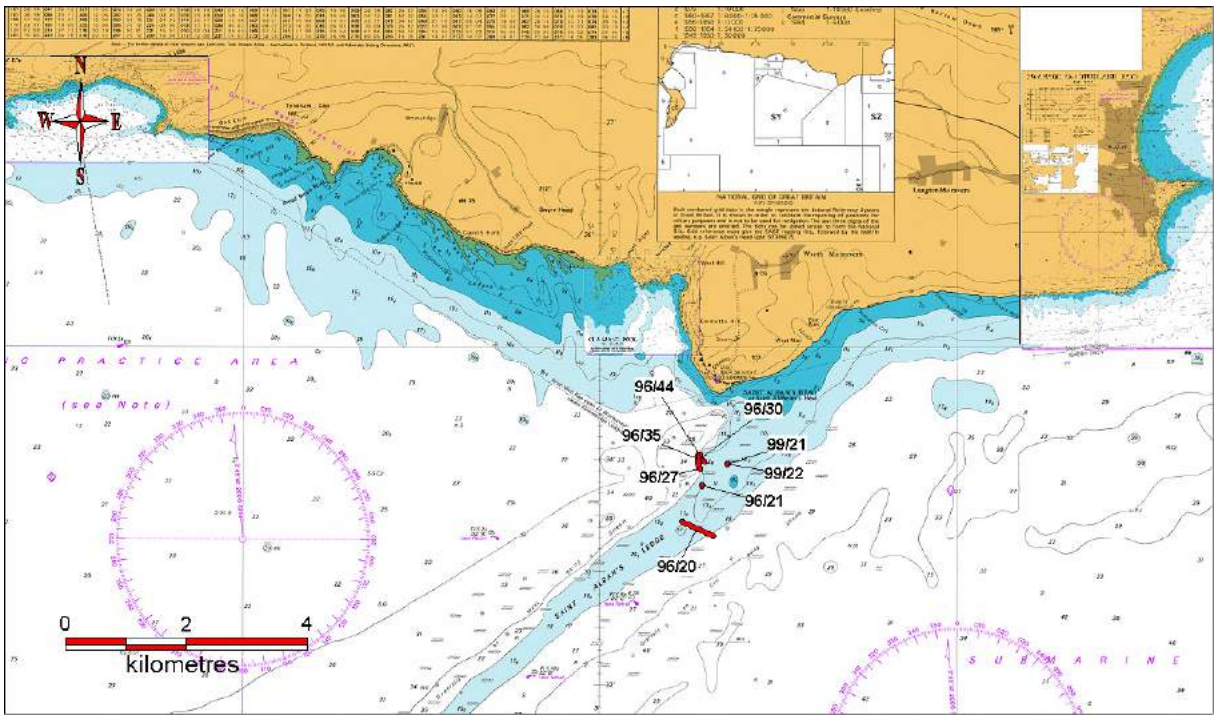
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Chordata				
Ctenolabrus rupestris	Goldsinny	P	P	Climate
Cnidaria (Corals, anemones, hydroids)				
Anemonia viridis	Snakelocks anemone	A to O	F	Climate

St Albans Ledge

Number of Seasearch dives 8

Number of species/groups recorded 63



Physical environment:

Depth range 12-26m

St Albans Ledge is a strongly tidal site with a powerful tidal race forming overfalls in both directions. The ledge drops by a series of deep steps on the west side, with two deep, scoured holes down to around 60m. This is a challenging site requiring careful planning.

Habitat/Community types:

Extensive areas of flat bedrock with a low turf of algae including *Calliblepharis ciliata, Halurus equisetifolius, Plocamium cartilagineum* and *Delesseria sanguinea*, or hydroids and low encrusting sponges. Vertical surfaces show heavy piddock boring with encrusting sponges and hydroids - especially *Tubularia*. Tompot blennies are very common among the pitted rocks. Other fish include ballan, cuckoo, goldsinny and rock cook wrasse and the topknot, *Zeugopterus*.

Observations/Features of Interest:

Areas of clean shale pebbles often formed at the base of the stepped ledges. These also contained numerous empty piddock shells and shells from large *Nucella*. Such large dog-whelks are usually associated with sublittoral mussel beds.

Recorded biotopes

Sublittoral sediment

Circalittoral mixed sediment

Circalittoral coarse sediment

Infralittoral rock (and other hard substrata)

Kelp with cushion fauna and/or foliose red seaweeds

Foliose red seaweeds on exposed lower infralittoral rock

Circalittoral rock (and other hard substrata)

Echinoderms and crustose communities

Faunal and algal crusts on exposed to moderately wave-exposed circalittoral rock

Alcyonium digitatum, Pomatoceros triqueter, algal and bryozoan crusts on wave-exposed circalittoral rock

Mixed faunal turf communities

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

Flustra foliacea, small solitary and colonial ascidians on tide-swept circalittoral bedrock or boulders

Circalittoral caves and overhangs

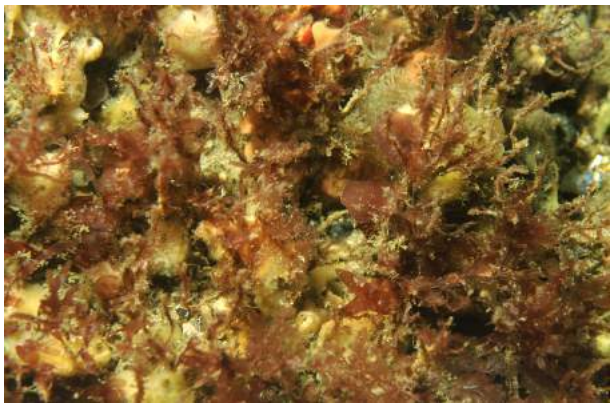
Tompot blenny - Parablennius gattorugine

Shale and shell gravel at base of stepped ledge

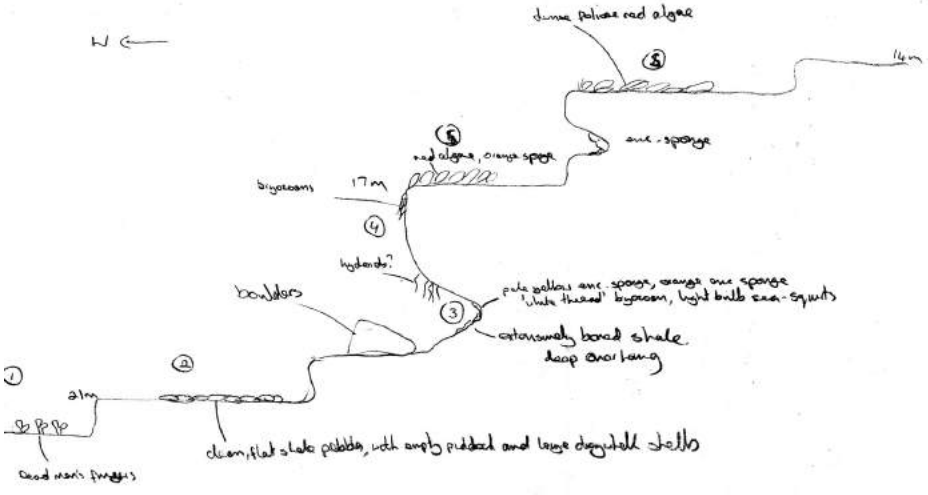
Hydroids, bryozoans and sponges

Colonial anemones - Epizoanthus couchi

Piddock-bored shale



Red seaweeds, sponges and bryozoans



Sketch from dive 96/30

Most frequently recorded species

Number of Seasearch dives	8
Number of species/groups recorded	63

Species	Common name	No. of records	Abundance range
Parablennius gattorugine	Tompot blenny	6	P to A
Alcyonium digitatum	Dead man's fingers soft coral	5	P to A
Pachymatisma johnstonia	Elephant's ear sponge	5	P to C
Labrus bergylta	Ballan wrasse	5	P to F
Cancer pagurus	Edible crab / brown crab /great crab	4	P to C
Rhodophycota	Red seaweeds	3	F to C
Maja squinado	Spiny spider crab	3	R to O
Centrolabrus exoletus	Rock cook	3	P to O
Ctenolabrus rupestris	Goldsinny	3	P to O
Delesseria sanguinea	Sea beech	3	P to A
Pholadidae	Piddocks	3	P to A
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	3	P to O
Labrus mixtus	Cuckoo wrasse	2	P to O
Homarus gammarus	Common lobster	2	O
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	2	R to C
Grantia compressa	Compressed purse sponge	2	P to O
Dilsea carnosa	Red rags / red leather weed	2	P to R
Hydrozoa	Hydroids/ sea firs	2	P to A
Clavelina lepadiformis	Lightbulb seasquirt	2	P to R
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	2	O to C
Calliblepharis ciliata	Red fringe weed	2	P to R
Bryozoa	Sea mats / moss animals	2	P
Aplysia punctata	Red sea hare	2	R
Esperiopsis fucorum	Shredded carrot sponge	2	P to C
Trisopterus luscus	Bib/ pouting	2	O to C
Scyliorhinus canicula	Lesser spotted dogfish / cat shark	2	P to R
Porifera	Sponges	2	P to O
Pollachius pollachius	Pollack	2	O
Plocamium cartilagineum	Red comb weed / cockscombe / scarlet hair flag	2	C to A
Tubularia	A hydroid	2	C to A

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Hydrozoa	Hydroids/ sea firs	P to A	O	2
Tubularia	A hydroid	C to A	C	2
Alcyonium digitatum	Dead man's fingers soft coral	P to A	O	5
Cirripedia	Barnacles	A	A	1
Pholadidae	Piddocks	P to A	O	3
Parablennius gattorugine	Tompot blenny	P to A	O	6
Plocamium cartilagineum	Red comb weed / cockscombe / scarlet hair flag	C to A	C	2
Delesseria sanguinea	Sea beech	P to A	O	3
Max abundance = C				
Pachymatisma johnstonia	Elephant's ear sponge	P to C	O	5
Esperiopsis fucorum	Shredded carrot sponge	P to C	O	2
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	R to C	O	2
Cancer pagurus	Edible crab / brown crab /great crab	P to C	O	4
Gibbula cineraria	Grey top shell	C	C	1
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	O to C	F	2
Trivia monacha	Spotted / European cowry	C	C	1
Electra pilosa	Frost/hairy sea mat	C	C	1
Trisopterus luscus	Bib/ pouting	O to C	F	2
Rhodophycota	Red seaweeds	F to C	F	3
Max abundance = F				
Bispira volutacornis	Double crowned fan worm	F	F	1
Labridae	Wrasses	F	F	1
Labrus bergylta	Ballan wrasse	P to F	R	5
Rhodymenia	A red seaweed	F	F	1

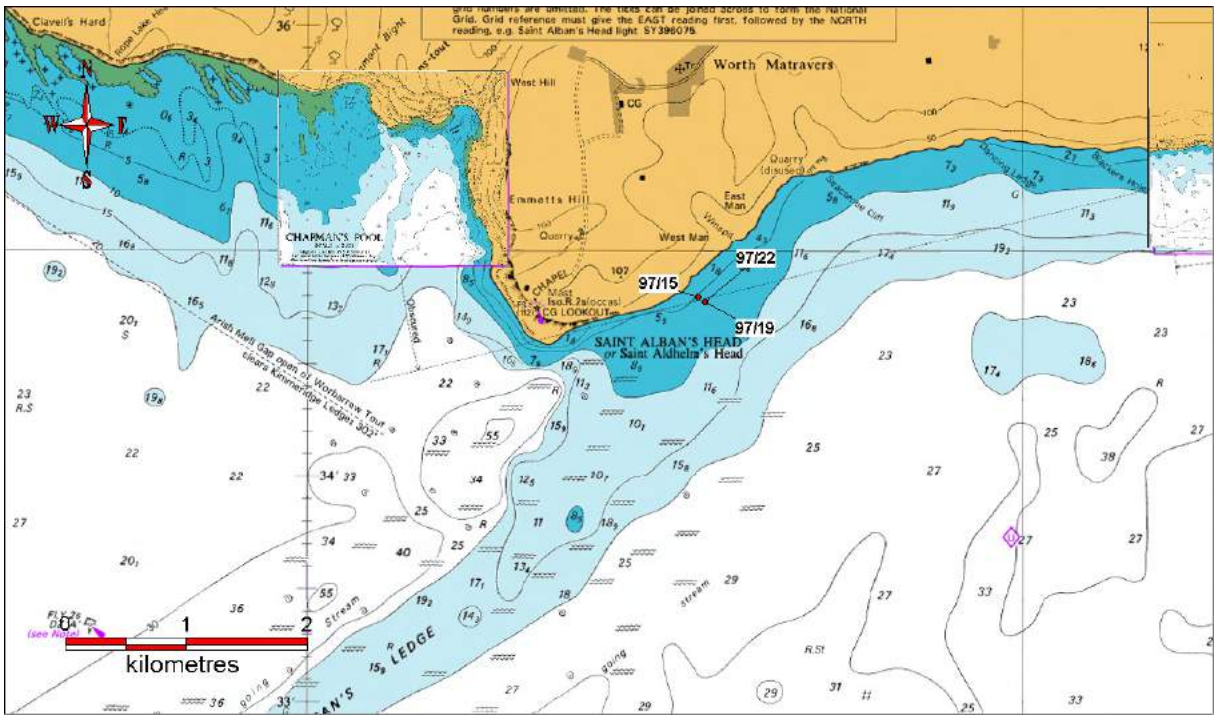
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	P	P	Climate
Chordata				
Ctenolabrus rupestris	Goldsinny	O to P	R	Climate
Centrolabrus exoletus	Rock cook	O to P	R	Climate
Crustacea				
Maja squinado	Spiny spider crab	O to R	R	Climate

Under St Albans Head

Number of Seasearch dives 3

Number of species/groups recorded 24



Physical environment:

Depth range 6-10m

Gently sloping or irregular bedrock with pitted surface. Ledges up to 1m high (but mostly smaller) with some deep overhangs. Dive 97/22 recorded areas of coarse sand and broken shell among boulders and cobbles. Some scoured hollows/rockmills.

Habitat/Community types:

Kelp forest (*Laminaria hyperborea* with some *Saccorhiza polyschides*) with dense red algae on the stipes and below the kelp. Up to 50% cover of encrusting coralline algae in places. Deep overhangs provided a habitat for a range of tunicates, sponges and crustaceans, with crevice sea-cucumbers (*Pawsonia saxicola*) and *Bispira* fanworms.

Observations/Features of Interest:

Recorded biotopes

Sublittoral sediment

Infralittoral mixed sediment

Kelp and seaweed communities on sublittoral sediment

Infralittoral rock (and other hard substrata)

Kelp and red seaweeds (moderate energy infralittoral rock)

Laminaria hyperborea and foliose red seaweeds on moderately exposed infralittoral rock

Laminaria hyperborea park and foliose red seaweeds on moderately exposed lower infralittoral rock

Dense foliose red seaweeds on silty moderately exposed infralittoral rock

Circalittoral rock (and other hard substrata)

Mixed faunal turf communities

Sponges and anemones on vertical circalittoral bedrock

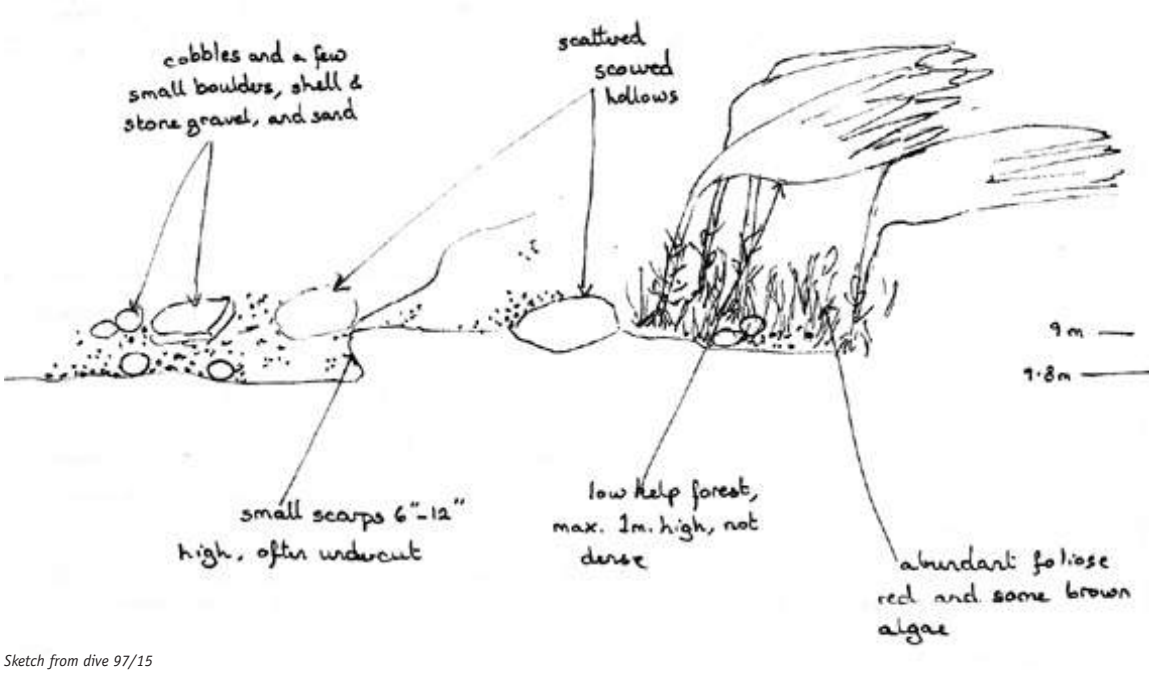
Most frequently recorded species

Number of Seasearch dives	3
Number of species/groups recorded	24

Species	Common name	No. of records	Abundance range
Labrus bergylta	Ballan wrasse	2	P to R
Rhodophycota	Red seaweeds	2	P to A
Cancer pagurus	Edible crab / brown crab /great crab	2	P to R
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	2	P to R
Laminaria hyperborea	Cuvie / northern kelp / forest kelp	2	P to A
Halidrys siliquosa	Pod weed / sea oak	2	P to F

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Rhodophycota	Red seaweeds	P to A	0	2
Laminaria hyperborea	Cuvie / northern kelp / forest kelp	P to A	0	2
Max abundance = F				
Scypha ciliata	Crowned purse sponge	F	F	1
Halidrys siliquosa	Pod weed / sea oak	P to F	R	2
Max abundance = O				
Grantia compressa	Compressed purse sponge	0	0	1
Paguridae	Hermit crab family	0	0	1
Gibbula	Top shells	0	0	1
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	0	0	1

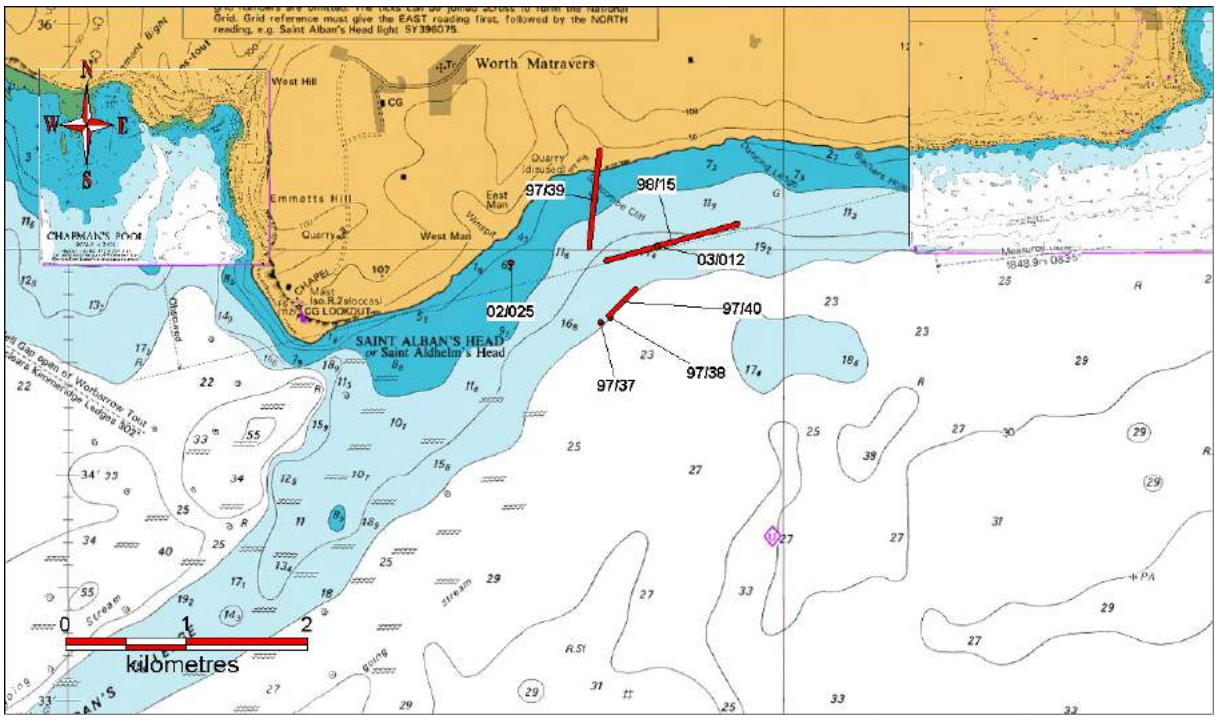


Sketch from dive 97/15

Winspit to Seacombe

Number of Seasearch dives 7

Number of species/groups recorded 70



Physical environment:

Depth range 7-25m

Mostly level bedrock with small ledges and overhangs, overlain in places with pebbles/cobbles and small boulders or a thin layer of coarse gravel/broken shells. Several divers reported ledges up to 1m high with deep overhangs and lots of crevices.

Habitat/Community types:

Kelp forest or kelp park in the shallower sites, with *Saccorhiza polyschides* and *Halidrys siliquosa* among the *Laminaria hyperborea*. Dense red algal cover beneath the kelp and on the bedrock in deeper water - including *Dilsea carnosa and Delesseria sanguinea*. The sponges *Polymastia boletiformis* and *Tethya aurantium* both featured prominently among the red seaweed and among the hydroid/bryozoan turf below 16m.

The crevices and overhangs sheltered crabs (*Cancer pagurus, Necora puber*, spider crabs), squat lobsters, *Bispira volutacornis* and the crevice dwelling sea-cucumber, *Pawsonia saxicola*.

Observations/Features of Interest:

Several dives reported areas/pockets of fine sediment stabilised by the tube-building amphipod, *Ampelisca*. Dive 03/012 (October 2003) reported a shoal of juvenile black bream.

Recorded biotopes

Sublittoral sediment

Infralittoral mixed sediment

Circalittoral mixed sediment

Infralittoral sandy mud

Ampelisca spp., *Photis longicaudata* and other tube-building amphipods and polychaetes in infralittoral sandy mud

Infralittoral coarse sediment

Infralittoral rock (and other hard substrata)

Kelp and red seaweeds (moderate energy infralittoral rock)

Dense foliose red seaweeds on silty moderately exposed infralittoral rock

Sediment-affected or disturbed kelp and seaweed communities

Halidrys siliquosa and mixed kelps on tide-swept infralittoral rock with coarse sediment

Kelp with cushion fauna and/or foliose red seaweeds

Foliose red seaweeds on exposed lower infralittoral rock

Circalittoral rock (and other hard substrata)

Echinoderms and crustose communities

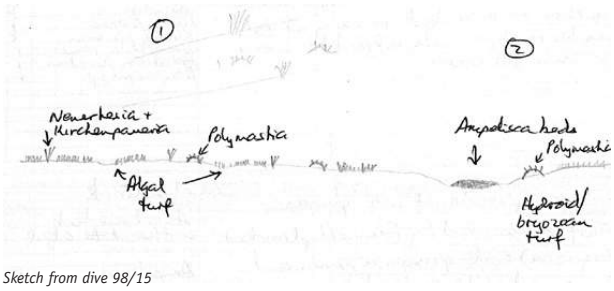
Urticina felina and sand-tolerant fauna on sand-scoured or covered circalittoral rock

Mixed faunal turf communities

Most frequently recorded species

Number of Seasearch dives	7
Number of species/groups recorded	70

Species	Common name	No. of records	Abundance range
Flustra foliacea	Hornwrack / leafy bryozoan	4	P to O
Henricia oculata	Bloody Henry starfish	4	P to O
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	4	P to F
Urticina	Dahlia anemone	4	P to C
Hydrozoa	Hydroids/ sea firs	3	P to C
Cancer pagurus	Edible crab / brown crab /great crab	3	P to R
Bispira volutacornis	Double crowned fan worm	3	P to C
Lanice conchilega	Sandmason worm	3	P to C
Tethya aurantium	Golf ball sponge	3	P to O
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	2	P
Hemimycale columella	Pink/orange crater sponge	2	P
Crepidula fornicata	Slipper limpet	2	F to C
Hinia reticulata	Netted dogwhelk	2	P to F
Trisopterus luscus	Bib/ pouting	2	P to O
Callionymus lyra	Common dragonet	2	F to C
Labrus bergylta	Ballan wrasse	2	P
Pagurus bernhardus	Large/common/soldier hermit crab	2	P to C
Gobiidae	Goby family	2	P
Rhodophycota	Red seaweeds	2	P to F
Bryozoa	Sea mats / moss animals	2	P to C
Alcyonidium diaphanum	Jelly baby/finger bryozoan / sea chervil/ Dogger Bank itch	2	P
Esperiopsis fucorum	Shredded carrot sponge	2	F
Ampelisca	Tube building amphipods	2	F to A
Phymatolithon calcareum	Maerl	2	P
Pollachius pollachius	Pollack	2	P
Polymastia	A sponge	2	P to F
Pomatoceros triqueter	Keel worm	2	P
Pomatoschistus pictus	Painted goby	2	P to F
Aplidium punctum	Single spotted colonial seasquirt	2	P to F



Sketch from dive 98/15

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Ampelisca	Tube building amphiods	F to A	C	2
Max abundance = C				
Hydrozoa	Hydroids/ sea firs	P to C	O	3
Kirchenpaueria	A hydroid	C	C	1
Urticina	Dahlia anemone	P to C	O	4
Lanice conchilega	Sandmason worm	P to C	O	3
Bispira volutacornis	Double crowned fan worm	P to C	O	3
Pagurus bernhardus	Large/common/soldier hermit crab	P to C	O	2
Crepidula fornicata	Slipper limpet	F to C	F	2
Bryozoa	Sea mats / moss animals	P to C	O	2
Callionymus lyra	Common dragonet	F to C	F	2
Max abundance = F				
Leucosolenia	Spikey lace sponge	F	F	1
Polymastia	A sponge	P to F	R	2
Esperiopsis fucorum	Shredded carrot sponge	F	F	2
Dysidea fragilis	Goose bump/hedgehog sponge	F	F	1
Nemertesia ramosa	Branched antenna hydroid	F	F	1
Cereus pedunculatus	Daisy anemone	F	F	1
Adamsia carciniopados	Hermit crab's cloak anemone	F	F	1
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	P to F	R	4
Trivia	A cowrie	F	F	1
Hinia reticulata	Netted dogwhelk	P to F	R	2
Aplidium punctum	Single spotted colonial seasquirt	P to F	R	2
Ciona intestinalis	Yellow rimmed seasquirt	F	F	1
Polycarpa	A sea squirt	F	F	1
Spondyliosoma cantharus	Black sea-bream	F	F	1
Pomatoschistus pictus	Painted goby	P to F	R	2
Rhodophycota	Red seaweeds	P to F	R	2

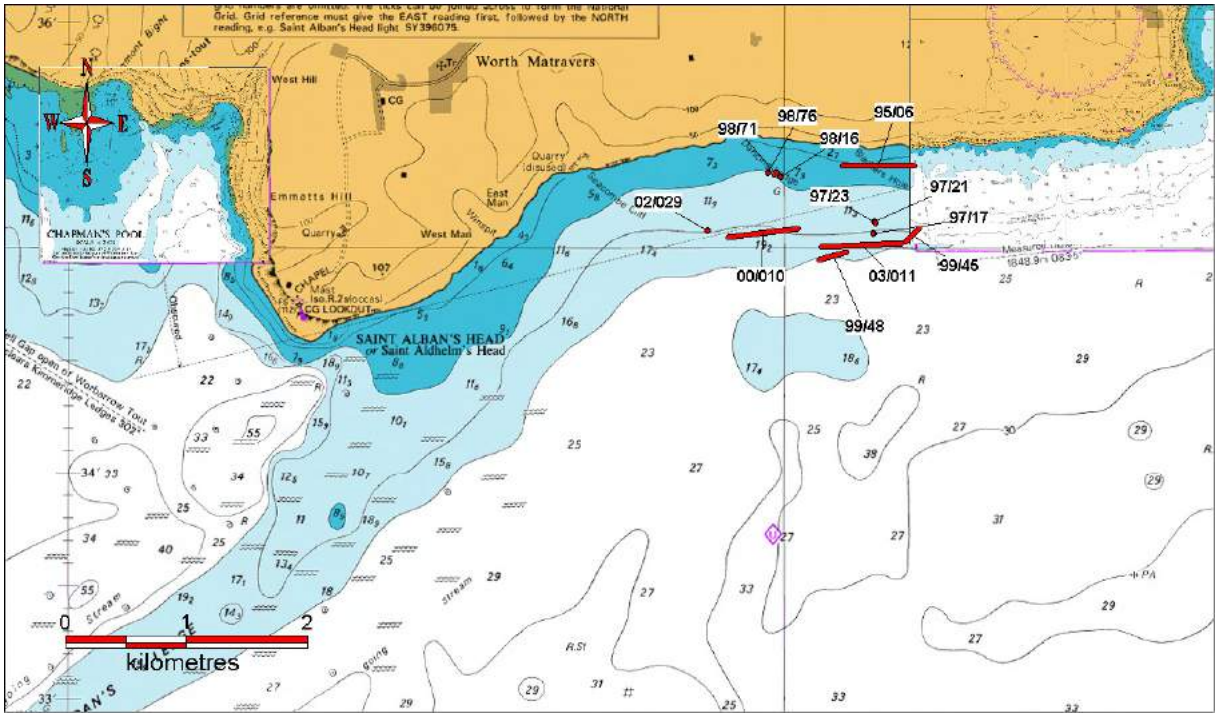
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Algae/Plants				
Phymatolithon calcareum	Maerl	P	P	HAP
Crustacea				
Maja squinado	Spiny spider crab	R	R	Climate
Mollusca				
Crepidula fornicata	Slipper limpet	C to F	F	Introduced
Tunicata (sea squirts)				
Phallusia mammillata	Michelin man seasquirt	O	O	SOCC NS

Blackers Hole/Dancing Ledge

Number of Seasearch dives 12

Number of species/groups recorded 130



Physical environment:

Depth range 8-24m

This is an area of mostly horizontal bedrock with occasional small ledges and shallow, sand-filled gullies and hollows. There are large boulders close inshore underneath the cliffs. Moving offshore the seabed becomes covered by a layer of shelly coarse gravel.

Habitat/Community types:

In shallower water the seabed is dominated by kelp, Laminaria hyperborea, or kelp and *Halidrys siliquosa* with an understorey of foliose red algae. The large boulders just underneath the cliff are capped with kelp with an understorey of encrusting coralline algae and scoured clean at the base.

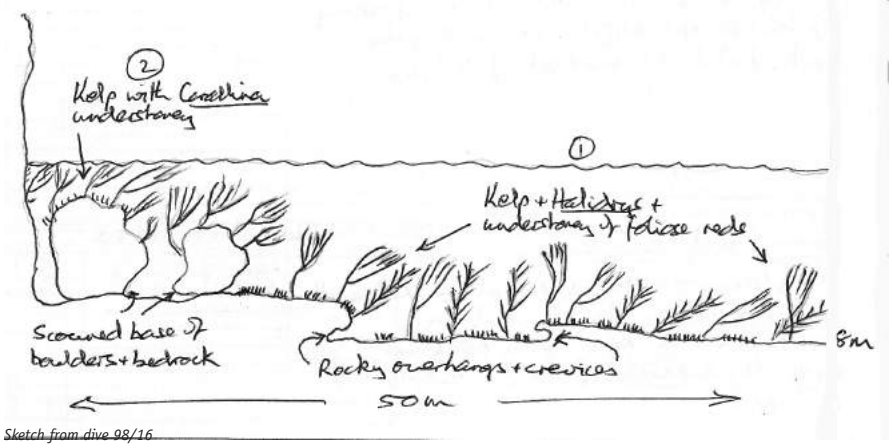
Moving deeper, gives way to a red/brown algal turf including *Dictyopteris/Dictyota, Calliblepharis ciliata, Rhodymenia pseudopalmata* and *Heterosiphonia plumosa* with a hydroids and low bryozoans. Small ledges and sills supported sponges (*Polymastia, Tethya aurantium, Dysidea fragilis, Hemimycale columella*) and the occasional *Alcyonium digitatum*. The trumpet anemone, *Aiptasia mutabilis*, was common in places and there were fanworms (*Bispira*) and crevice-dwelling sea-cucumbers in suitable crevices. Cowries and nudibranchs (including *Janolus cristatus*) were recorded at several sites.

The deepest sites were increasingly covered in shelly gravel with most of the recorded fauna restricted to occasional ledges and boulders. Dahlia anemone and the candle sponge, *Ciocalypta penicillus* were recorded growing through the sediment.

Fish life included shoals of pouting and sand-eels, tompot blennies and leopard spotted gobies.

Observations/Features of Interest:

The shelly gravel in the deeper sites included whole empty shells of mussels, dog-whelks, otter and carpet shells. Both undulate and thornback rays were seen here and the unusual brown seaweed, *Zanardinia prototypus* was recorded here. Dive 99/45 reported a 10m wide patch of "a moss-like beige carpet, soft to the touch" - this sounds like an amphipod mat formed by *Ampelisca*.



Sketch from dive 98/16

Recorded biotopes

Sublittoral sediment

Infralittoral sandy mud

Ampelisca spp., *Photis longicaudata* and other tube-building amphipods and polychaetes in infralittoral sandy mud

Circalittoral coarse sediment

Neopentadactyla mixta in circalittoral shell gravel or coarse sand

Infralittoral rock (and other hard substrata)

Kelp and red seaweeds (moderate energy infralittoral rock)

Laminaria hyperborea and foliose red seaweeds on moderately exposed infralittoral rock

Laminaria hyperborea forest and foliose red seaweeds on moderately exposed upper infralittoral rock

Grazed *Laminaria hyperborea* park with coralline crusts on lower infralittoral rock

Dense foliose red seaweeds on silty moderately exposed infralittoral rock

Sediment-affected or disturbed kelp and seaweed communities

Halidrys siliquosa and mixed kelps on tide-swept infralittoral rock with coarse sediment

Kelp with cushion fauna and/or foliose red seaweeds

Foliose red seaweeds on exposed lower infralittoral rock

Foliose red seaweeds with dense *Dictyota dichotoma* and/or *Dictyopteris membranacea* on exposed lower infralittoral rock

Circalittoral rock (and other hard substrata)

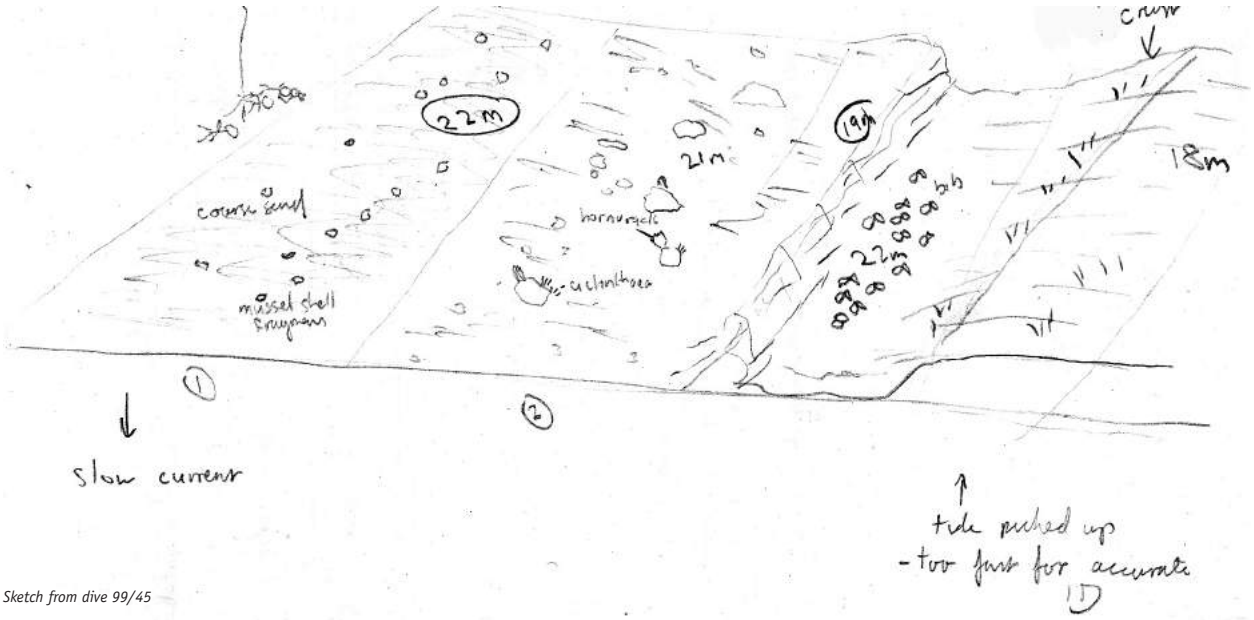
Mixed faunal turf communities

Sponges and anemones on vertical circalittoral bedrock

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

Bryozoan turf and erect sponges on tide-swept circalittoral rock

Mixed turf of bryozoans and erect sponges with *Dysidia fragilis* and *Actinothoe sphyrodeta* on tide-swept wave-exposed circalittoral rock



Sketch from dive 99/45

Most frequently recorded species

Number of Seasearch dives	12
Number of species/groups recorded	130

Species	Common name	No. of records	Abundance range
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	9	P to C
Bispira volutacornis	Double crowned fan worm	7	P to A
Rhodophycota	Red seaweeds	6	P to C
Alcyonium digitatum	Dead man's fingers soft coral	6	R to O
Pentapora foliacea	Ross coral/potato crisp bryozoan	6	P to C
Urticina	Dahlia anemone	5	P to F
Flustra foliacea	Hornwrack / leafy bryozoan	5	P to O
Trivia	Cowrie	5	P to C
Hemimycale columella	Pink/orange crater sponge	5	P to O
Henricia oculata	Bloody Henry starfish	5	P to A
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	5	P to F
Paguridae	Hermit crab family	5	P to C
Botryllus schlosseri	Star seasquirt	5	P to O
Ctenolabrus rupestris	Goldsinny	4	P to O
Porifera	Sponges	4	P to F
Parablennius gattorugine	Tompot blenny	4	R to O
Maja squinado	Spiny spider crab	4	P to O
Hinia reticulata	Netted dogwhelk	4	P to C
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	4	P to F
Aplidium punctum	Single spotted colonial seasquirt	4	P to O
Corallinaceae	Pink coralline algae	3	P to A
Ocenebra erinacea	Sting winkle / oyster drill	3	P to R
Styela clava	Stalked seasquirt / leathery seasquirt	3	P to O
Homarus gammarus	Common lobster	3	R
Tethya aurantium	Golf ball sponge	3	P to C
Cliona celata	Sulphur sponge / yellow boring sponge	3	P to O
Labrus mixtus	Cuckoo wrasse	3	R to O
Cirripedia	Barnacles	3	O to C
Halidrys siliquosa	Pod weed / sea oak	3	P to O
Gobiidae	Goby family	3	P to F
Cancer pagurus	Edible crab / brown crab /great crab	3	P to R
Dysidea fragilis	Goose bump/hedgehog sponge	3	P to C
Polymastia boletiformis	Chimney ball sponge	3	P to O

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = S				
Ampelisca	Tube building amphipods	S	S	1
Max abundance = A				
Bispira volutacornis	Double crowned fan worm	P to A	O	7
Henricia oculata	Bloody Henry starfish	P to A	O	5
Corallinaceae	Pink coralline algae	P to A	O	3
Calliblepharis ciliata	Red fringe weed	F to A	C	2
Rhodymenia pseudopalmata	A red seaweed	A	A	1
Phaeophyceae	Brown seaweeds	A	A	1
Laminaria	Kelp	A	A	1
Max abundance = C				
Tethya aurantium	Golf ball sponge	P to C	O	3
Polymastia mamillaris	Mermaid's glove sponge	P to C	O	2
Dysidea fragilis	Goose bump/hedgehog sponge	P to C	O	3
Aiptasia mutabilis	Trumpet anemone	F to C	F	1
Cereus pedunculatus	Daisy anemone	R to C	O	2
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	P to C	O	9
Cirripedia	Barnacles	O to C	F	3
Paguridae	Hermit crab family	P to C	O	5
Trochidae	Topshells	F to C	F	2
Trivia	Cowrie	P to C	O	5
Hinia reticulata	Netted dogwhelk	P to C	O	4
Nudibranchia	Nudibranch	O to C	F	2
Pentapora foliacea	Ross coral/potato crisp bryozoan	P to C	O	6
Holothurioidea	Sea cucumber family	O to C	F	2
Pawsonia saxicola	Crevice/gherkin sea cucumber	C	C	1
Trisopterus luscus	Bib/ pouting	R to C	O	2
Ammodytes	Sand eels	C	C	1
Rhodophycota	Red seaweeds	P to C	O	6
Rhodophyllis	A red seaweed	C	C	1
Heterosiphonia plumosa	A red seaweed	O to C	F	2
Delesseria sanguinea	Sea beech	P to C	O	2
Fucus vesiculosus	A brown seaweed	C	C	1

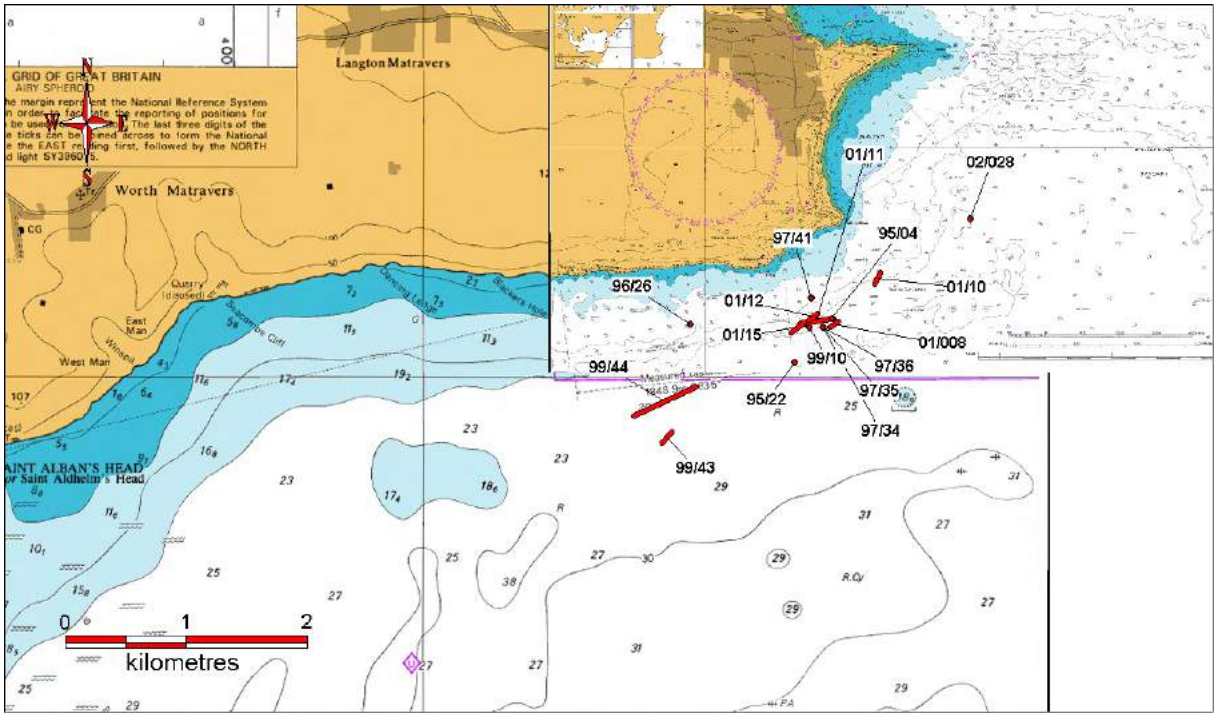
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Algae/Plants				
Phymatolithon calcareum	Maerl	R	R	HAP
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	C to P	O	Climate
Chordata				
Ctenolabrus rupestris	Goldsinny	O to P	R	Climate
Cnidaria (Corals, anemones, hydroids)				
Aiptasia mutabilis	Trumpet anemone	C to F	F	SOCC NS
Crustacea				
Maja squinado	Spiny spider crab	O to P	R	Climate
Mollusca				
Ostrea edulis	European oyster	O	O	SOCC BAP
Crepidula fornicata	Slipper limpet	R	R	Introduced
Tunicata (sea squirts)				
Styela clava	Stalked seasquirt / leathery seasquirt	O to P	R	Introduced

Anvil Point

Number of Seasearch dives 14

Number of species/groups recorded 81



Physical environment:

Depth range 16-30m

Gently undulating smooth bedrock of limestone with small gullies. Some hollows filled with dead maerl gravel and small pebbles. Dives 95/22, 99/43 and 99/44 are deeper at 30-34m, where the seabed is mostly flat cobbles.

Habitat/Community types:

This area is known amongst local divers as "the mussel beds" but the records show a change in the abundance of mussels here. Records from 1995 and 1997 talk of dense mussel beds, from 50-90% cover. A single report from 1999 (99/10) describes "very large mussels in small groups" and the 2001 records mention only small clumps of mussels with exposed rock covered only with encrusting corallines.

Several records mention numerous large dog-whelks, *Nucella lapillus*, which grow up to 6cm long here, about twice the size of usual intertidal dogwhelks. Other commonly recorded species include the dahlia anemone, *Urticina*, the anemone *Actinothoe sphyrodeta* and the edible crab, *Cancer pagurus*. The cobbles and ledges at site 95/22 (30m) were largely covered in barnacles.

Observations/Features of Interest:

Dive 99/10 records large patches of a small, sand-covered ascidian, tentatively identified as *Polycarpa*. Dive 02/028 recorded the presence of the rare cup-coral, *Caryophyllia inornata*, in deep overhangs on a rocky reef exposed to strong currents.

Recorded biotopes

Sublittoral sediment

Circalittoral mixed sediment

Circalittoral coarse sediment

Infralittoral rock (and other hard substrata)

Kelp with cushion fauna and/or foliose red seaweeds

Foliose red seaweeds on exposed lower infralittoral rock

Circalittoral rock (and other hard substrata)

Echinoderms and crustose communities

Faunal and algal crusts on exposed to moderately wave-exposed circalittoral rock

Circalittoral mussel beds on rock

Mytilus edulis beds with hydroids and ascidians on tide-swept exposed to moderately wave-exposed circalittoral rock

Very tide-swept faunal communities

Balanus crenatus and *Tubularia indivisa* on extremely tide-swept circalittoral rock

Mixed faunal turf communities

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

Polyclinum aurantium and *Flustra foliacea* on sand-scoured tide-swept moderately wave-exposed circalittoral rock

Circalittoral caves and overhangs

Sponges, cup corals and anthozoans on shaded or overhanging circalittoral rock

Most frequently recorded species

Number of Seasearch dives	14
Number of species/groups recorded	81

Species	Common name	No. of records	Abundance range
Nucella lapillus	Dog whelk	9	P to C
Mytilus edulis	Blue / edible / common mussel	9	R to A
Urticina	Dahlia anemone	8	P to C
Phymatolithon calcareum	Maerl	8	P to F
Cancer pagurus	Edible crab / brown crab /great crab	7	P to R
Rhodophycota	Red seaweeds	6	P to F
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	5	P to O
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	5	P to C
Cliona celata	Sulphur sponge / yellow boring sponge	5	P to R
Maja squinado	Spiny spider crab	4	P to C
Botryllus schlosseri	Star seasquirt	4	P to O
Flustra foliacea	Hornwrack / leafy bryozoan	4	P to A
Pachymatisma johnstonia	Elephant's ear sponge	3	P to F
Hydrozoa	Hydroids/ sea firs	3	P to C
Henricia oculata	Bloody Henry starfish	3	P to F
Ciocalypta penicillus	Tapered chimney sponge	3	P to O
Cirripedia	Barnacles	3	P to S
Gibbula cineraria	Grey top shell	3	P to O
Corallinaceae	Pink coralline algae	3	P to A
Ascidiacea	Sea squirts	3	P to O
Alcyonium digitatum	Dead man's fingers soft coral	3	P to O
Heterosiphonia plumosa	A red seaweed	2	P to F
Homarus gammarus	Common lobster	2	P to O
Labrus bergylta	Ballan wrasse	2	P
Delesseria sanguinea	Sea beech	2	O to A
Cereus pedunculatus	Daisy anemone	2	O to F
Dictyopteris membranacea	A brown seaweed	2	P to F
Dictyota dichotoma	A brown seaweed	2	P to O
Paguridae	Hermit crab family	2	O to F
Scyliorhinus canicula	Lesser spotted dogfish / cat shark	2	R to O
Pagurus bernhardus	Large/common/soldier hermit crab	2	P to C
Callionymus lyra	Common dragonet	2	P to R
Archidoris pseudoargus	Sea lemon	2	P to R
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	2	P
Porifera	Sponges	2	P to F
Asteroidea	Starfish family	2	P

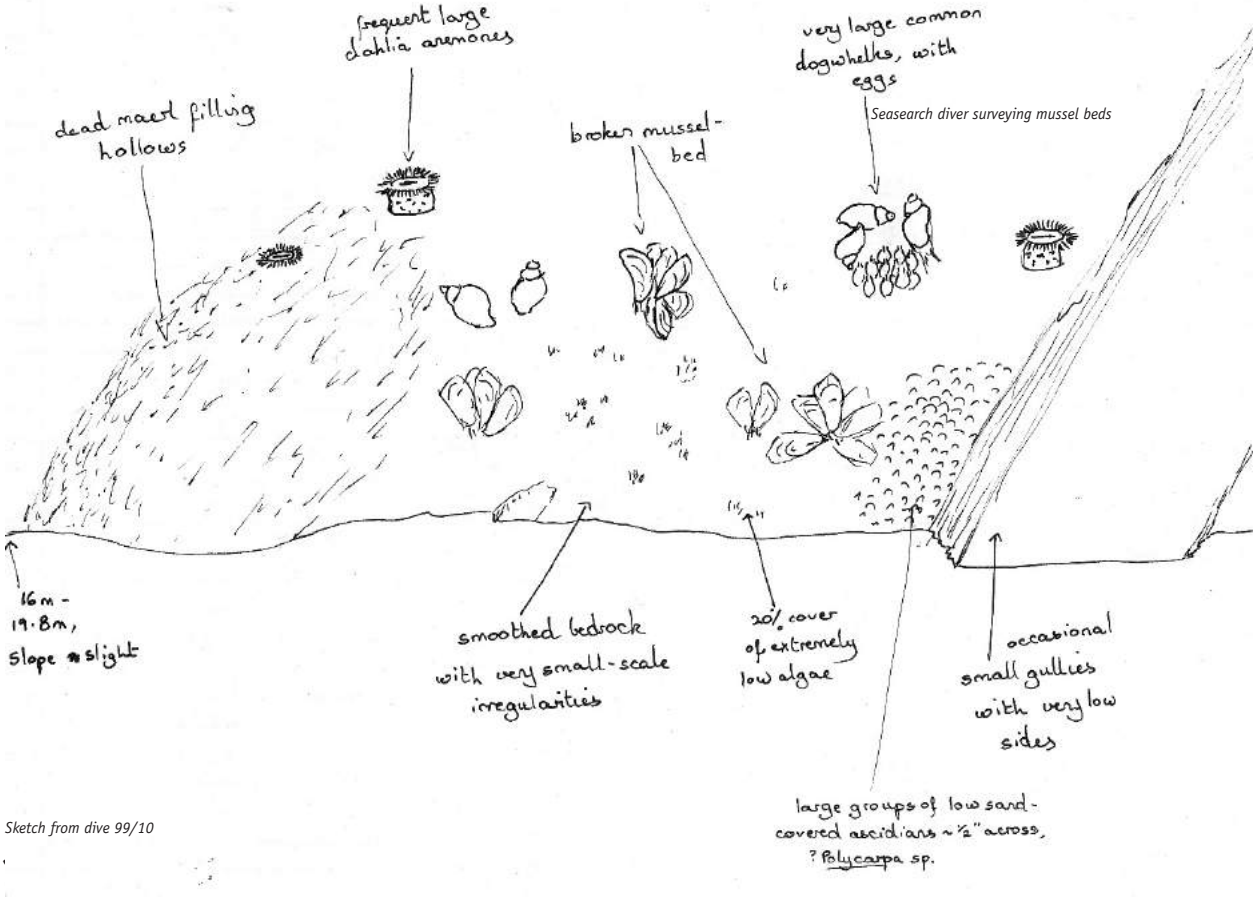
Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = S				
Cirripedia	Barnacles	P to S	F	3
Max abundance = A				
Mytilus edulis	Blue / edible / common mussel	R to A	F	9
Flustra foliacea	Hornwrack / leafy bryozoan	P to A	O	4
Didemnidae	Sea squirts	F to A	C	1
Corallinaceae	Pink coralline agae	P to A	O	3
Delesseria sanguinea	Sea beech	O to A	F	2
Max abundance = C				
Leuconia gossei	A sponge	C	C	1
Hydrozoa	Hydroids/ sea firs	P to C	O	3
Urticina	Dahlia anemone	P to C	O	8
Pagurus bernhardus	Large/common/soldier hermit crab	P to C	O	2
Galathea	A squat lobster	C	C	1
Maja squinado	Spiny spider crab	P to C	O	4
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	P to C	O	5
Nucella lapillus	Dog whelk	P to C	O	9
Bryozoa	Sea mats / moss animals	C	C	1
Rhodymenia holmesii	A red seaweed	C	C	1
Max abundance = F				
Porifera	Sponges	P to F	R	2
Pachymatisma johnstonia	Elephant's ear sponge	P to F	R	3
Dysidea fragilis	Goose bump/hedgehog sponge	F	F	1
Cereus pedunculatus	Daisy anemone	O to F	O	2
Caryophyllia inornata	Button/southern cup coral	F	F	1
Paguridae	Hermit crab family	O to F	O	2
Alcyonidium diaphanum	Jelly baby/finger bryozoan / sea chervil/ Dogger Bank itch	F	F	1
Henricia oculata	Bloody Henry starfish	P to F	R	3
Gadidae	Cod family	F	F	1
Rhodophycota	Red seaweeds	P to F	R	6
Phymatolithon calcareum	Maerl	P to F	R	8
Heterosiphonia plumosa	A red seaweed	P to F	R	2
Dictyopteris membranacea	A brown seaweed	P to F	R	2

Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Algae/Plants				
Phymatolithon calcareum	Maerl	F to P	R	HAP
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	R	R	Climate
Cnidaria (Corals, anemones, hydroids)				
Caryophyllia inornata	Button/southern cup coral	F	F	SOCC NR
Crustacea				
Maja squinado	Spiny spider crab	C to P	O	Climate

Seasearch diver surveying mussel beds

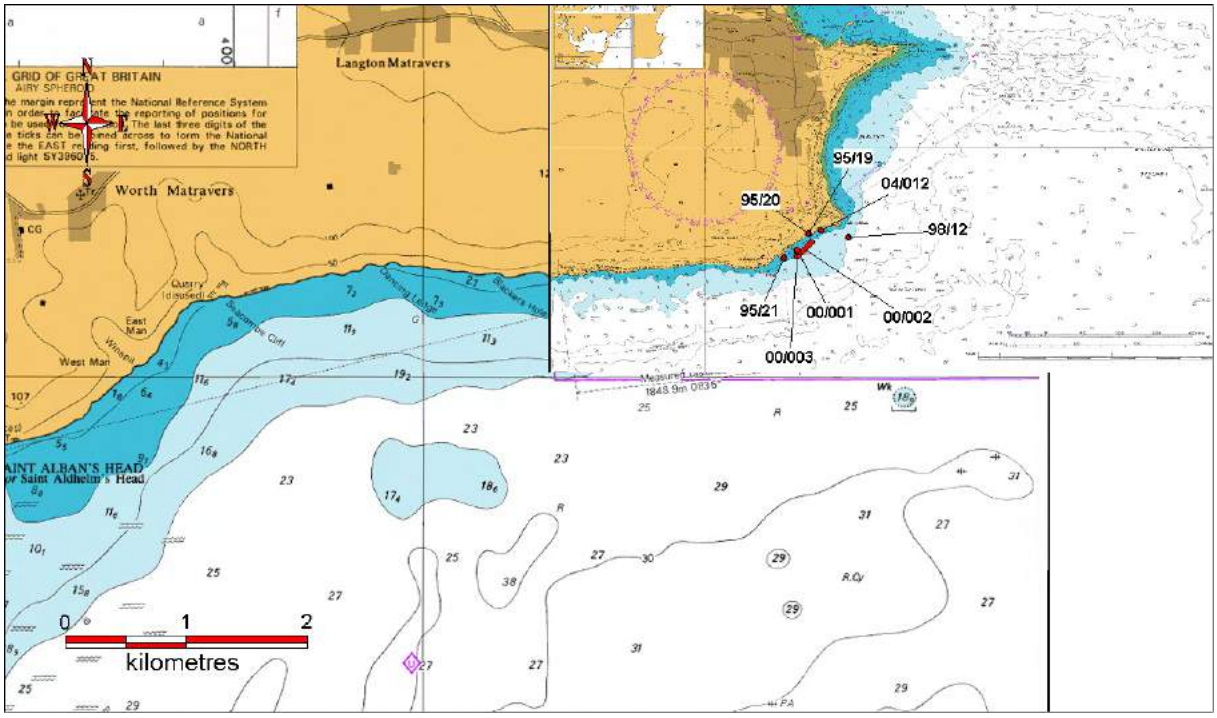


Sketch from dive 99/10

Durlston Cliffs

Number of Seasearch dives 8

Number of species/groups recorded 70



Physical environment:

Depth range 4-10m

Level limestone bedrock with occasional small steps. Patches of clean sand overlying the rock in places and filling some narrow sided gullies. Some very large boulders close inshore.

Habitat/Community types:

Some patches of dense kelp but much of the area is free of kelp with red/brown algal turf or up to 90% cover of encrusting coralline algae. Large boulders were topped with kelp with a red/brown algal understorey. Stalked jellyfish, *Haliclystus*, were found among the seaweeds. Most UK wrasse species were recorded here but the corkwing, *Crenilabrus melops*, was the most frequently spotted. The site is notable for pipefish records - five snake pipefish, *Entelurus aequoreus*, spotted on one dive alone and *Syngnathus acus* also recorded. The 15 spined stickleback, *Spinachia spinachia,* has also been seen here.

Observations/Features of Interest:

Site 98/12 recorded methane bubble streams from some patches of clean sands. These are associated with a geological fault which is visible in the nearby cliffs and extends under the seabed.

Recorded biotopes

Infralittoral rock (and other hard substrata)

Kelp and red seaweeds (moderate energy infralittoral rock)

Laminaria hyperborea and foliose red seaweeds on moderately exposed infralittoral rock

Laminaria hyperborea park and foliose red seaweeds on moderately exposed lower infralittoral rock

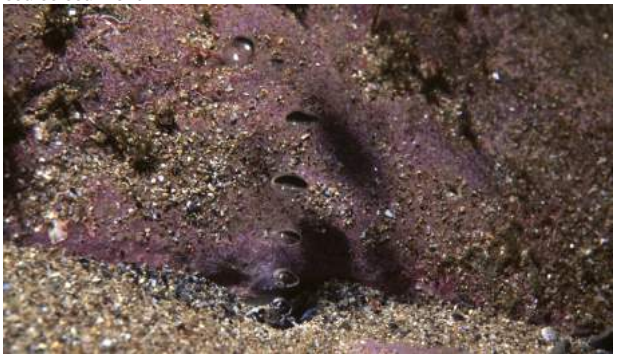
Laminaria hyperborea forest and foliose red seaweeds on moderately exposed upper infralittoral rock

Sediment-affected or disturbed kelp and seaweed communities

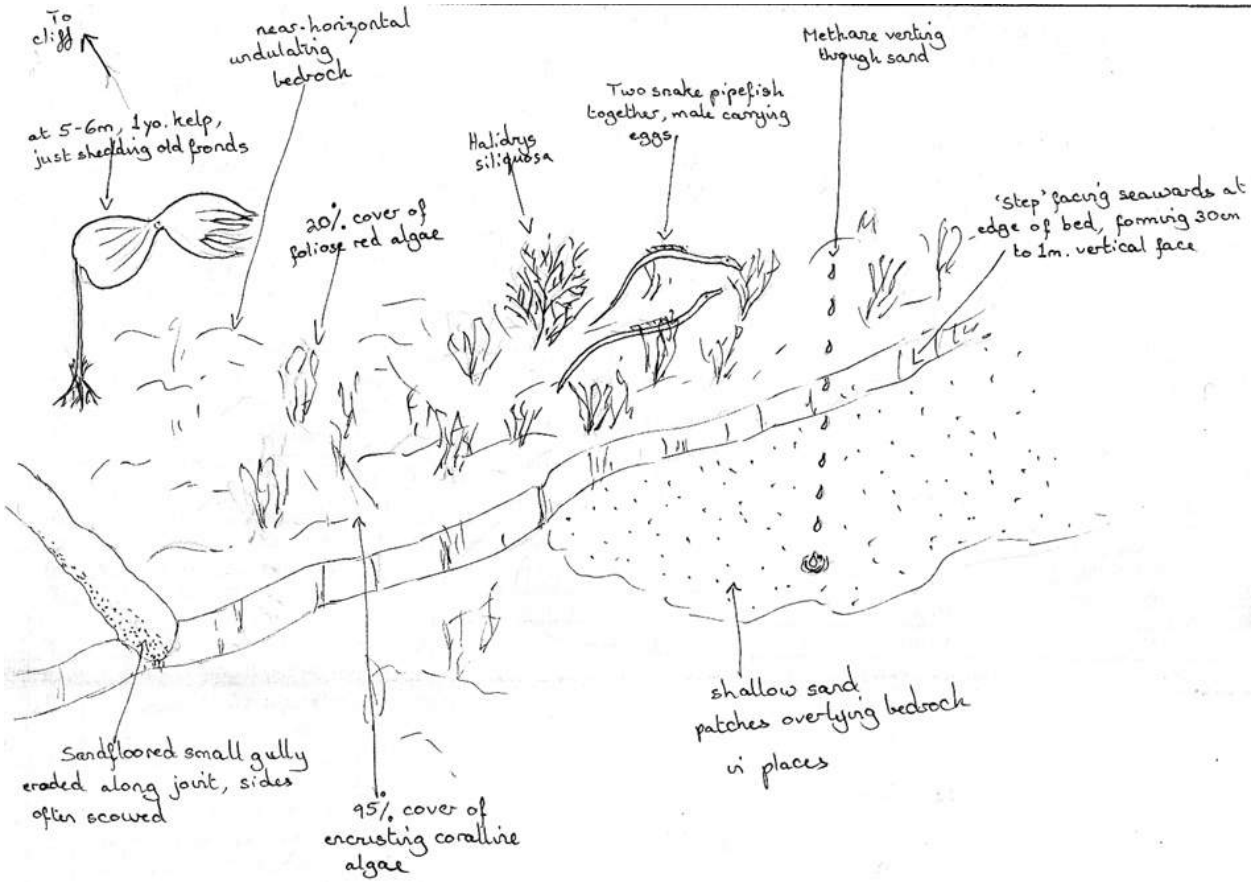
Polyides rotundus, Ahnfeltia plicata and *Chondrus crispus* on sand-covered infralittoral rock

Halidrys siliquosa and mixed kelps on tide-swept infralittoral rock with coarse sediment

Pipefish, Syngnathus acus



Methane bubbles from seabed



Sketch from dive 98/12

Most frequently recorded species

Number of Seasearch dives	8
Number of species/groups recorded	70

Species	Common name	No. of records	Abundance range
Laminaria	Kelp	6	P to S
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	5	P to O
Corallinaceae	Pink coralline algae	5	P to S
Maja squinado	Spiny spider crab	5	R to C
Cancer pagurus	Edible crab / brown crab /great crab	5	P to O
Gobiusculus flavescens	Two-spotted goby	4	P to O
Botryllus schlosseri	Star seasquirt	4	R to O
Rhodophycota	Red seaweeds	4	F to S
Halidrys siliquosa	Pod weed / sea oak	4	P to S
Ctenolabrus rupestris	Goldsinny	3	P
Labrus bergylta	Ballan wrasse	3	P to C
Esperiopsis fucorum	Shredded carrot sponge	3	P to O
Anemonia viridis	Snakelocks anemone	3	R to O
Crenilabrus melops	Corkwing	3	P

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = S				
Rhodophycota	Red seaweeds	F to S	C	4
Corallinaceae	Pink coralline algae	P to S	F	5
Corallina officinalis	Coral weed / bone weed	S	S	1
Laminaria	Kelp	P to S	F	6
Halidrys siliquosa	Pod weed / sea oak	P to S	F	4
Max abundance = A				
Laminaria hyperborea	Cuvie / northern kelp / forest kelp	F to A	C	2
Max abundance = C				
Caryophyllia smithii	Devonshire cup coral	C	C	1
Pomatoceros	Keel worms	O to C	F	2
Maja squinado	Spiny spider crab	R to C	O	5
Bryozoa	Sea mats / moss animals	C	C	1
Ascidiacea	Sea squirts	C	C	1
Labrus bergylta	Ballan wrasse	P to C	O	3
Labrus mixtus	Cuckoo wrasse	P to C	O	2
Max abundance = F				
Urticina	Dahlia anemone	O to F	O	2
Gibbula cineraria	Grey top shell	F	F	1
Buccinum undatum	Common whelk / bucci / edible whelk	F	F	1
Hinia reticulata	Netted dogwhelk	R to F	O	2
Entelurus aequoreus	Snake pipefish	F	F	1
Sargassum muticum	Japweed / wireweed	F	F	1

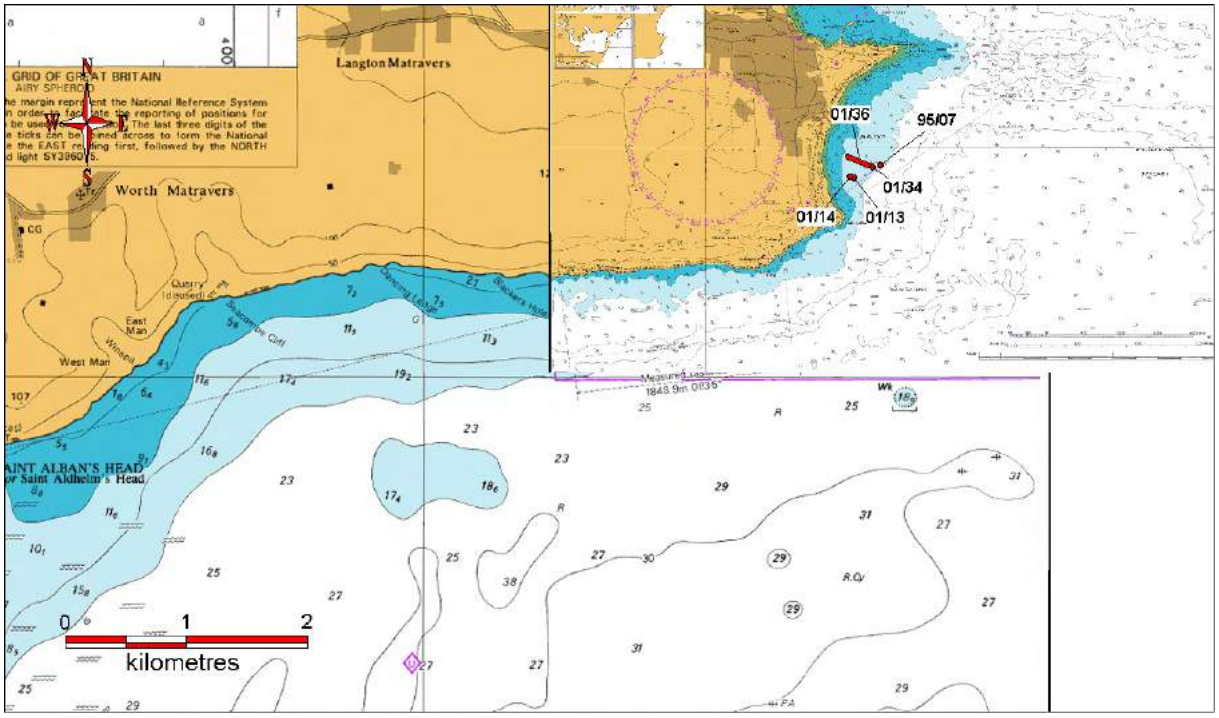
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Algae/Plants				
Sargassum muticum	Japweed / wireweed	F	F	Introduced
Chordata				
Ctenolabrus rupestris	Goldsinny	P	P	Climate
Centrolabrus exoletus	Rock cook	P	P	Climate
Cnidaria (Corals, anemones, hydroids)				
Anemonia viridis	Snakelocks anemone	O to R	R	Climate
Crustacea				
Maja squinado	Spiny spider crab	C to R	O	Climate
Mollusca				
Crepidula fornicata	Slipper limpet	O to P	R	Introduced

Durlston Bay

Number of Seasearch dives 5

Number of species/groups recorded 58



Physical environment:

Depth range 6-11m

This is predominantly an area of clean, coarse rippled sand, with boulders and bedrock closer inshore under Durlston Castle.

Habitat/Community types:

The shallowest (and largest) boulders are covered in kelp with red/brown algae, including *Calliblepharis ciliata*, *Plocamium cartilagineum*, *Heterosiphonia plumosa*, *Brongniartella byssoides* and *Dictyota dichotoma*. Smaller boulders subject to sand scour supported a mixture of sand-tolerant algae, including *Polyides rotundus*, *Halopithys incurvus* and *Naccaria wiggii*.

Shrimps, *Crangon crangon*, hermit crabs and sand/common gobies, *Pomatoschistus*, recorded from the sand.

Observations/Features of Interest:

Durlston Marine Project maintain a permanently mounted seabed hydrophone in Durlston Bay. Dive 01/36 reported a small patch of eelgrass, *Zostera marina*.

Recorded biotopes

Sublittoral sediment

Circalittoral fine sand

Infralittoral coarse sediment

Circalittoral coarse sediment

Infralittoral rock (and other hard substrata)

Kelp and red seaweeds (moderate energy infralittoral rock)

Laminaria hyperborea and foliose red seaweeds on moderately exposed infralittoral rock

Laminaria hyperborea park and foliose red seaweeds on moderately exposed lower infralittoral rock

Dense foliose red seaweeds on silty moderately exposed infralittoral rock

Sediment-affected or disturbed kelp and seaweed communities

Polyides rotundus, Ahnfeltia plicata and *Chondrus crispus* on sand-covered infralittoral rock

Most frequently recorded species

Number of Seasearch dives 5

Number of species/groups recorded 58

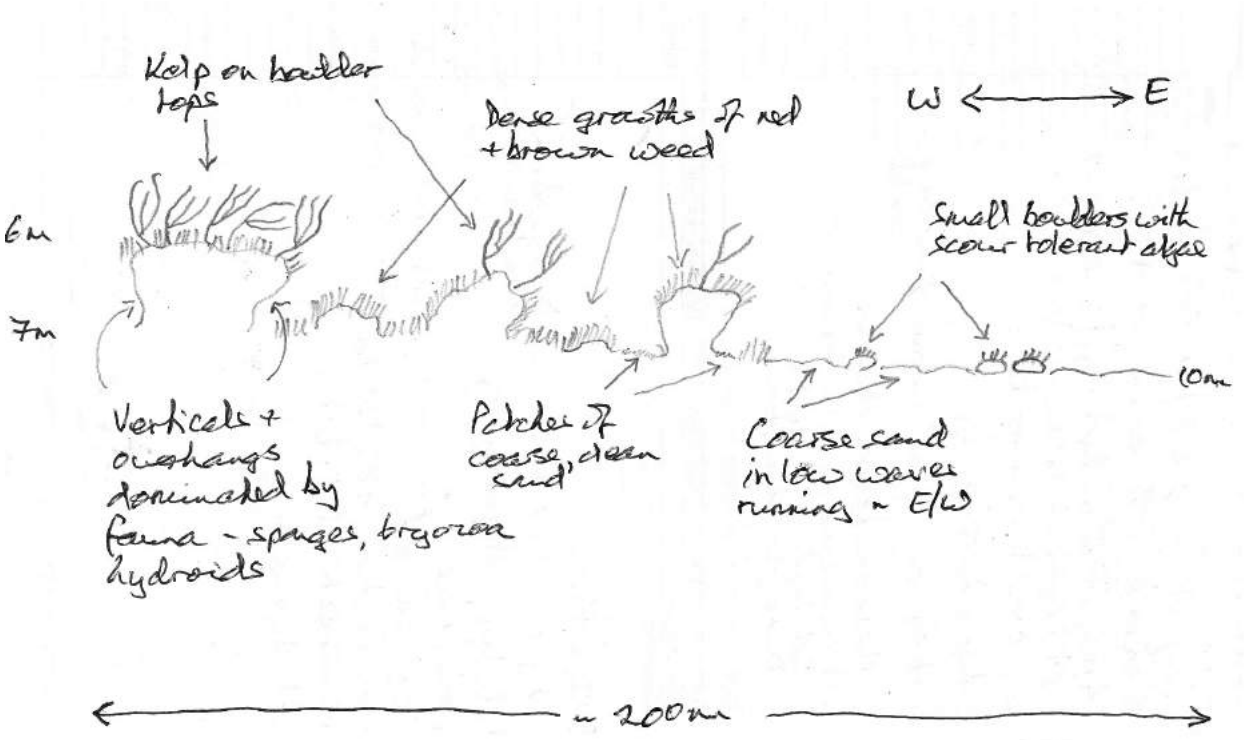
Species	Common name	No. of records	Abundance range
Cancer pagurus	Edible crab / brown crab /great crab	2	P to O
Homarus gammarus	Common lobster	2	P to R
Maja squinado	Spiny spider crab	2	P to O
Laminariaceae	Kelps	2	P to O
Pagurus bernhardus	Large/common/soldier hermit crab	2	P to O
Pomatoschistus minutus	Sand goby	2	O to F
Rhodophycota	Red seaweeds	2	P to O
Bispira volutacornis	Double crowned fan worm	2	R
Anemonia viridis	Snakelocks anemone	2	R to O

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Calliblepharis ciliata	Red fringe weed	A	A	1
Max abundance = C				
Plocamium cartilagineum	Red comb weed / cockscombe / scarlet hair flag	C	C	1
Heterosiphonia plumosa	A red seaweed	C	C	1
Brongniartella	A red seaweed	C	C	1
Brongniartella byssoides	A red seaweed	C	C	1
Dictyota dichotoma	A brown seaweed	C	C	1
Ulva lactuca	A green seaweed	R to C	O	1
Max abundance = F				
Pomatoschistus minutus	Sand goby	O to F	O	2
Chondrus crispus	Carragheen / Irish moss	F	F	1
Phyllophora pseudoceranoides	A red seaweed	F	F	1
Rhodymenia holmesii	A red seaweed	F	F	1
Aglaothamnion	A red seaweed	F	F	1
Halurus equisetifolius	Red mare's tail weed/sea mare's tail/sea horsetail	F	F	1
Spyridia filamentosa	A red seaweed	F	F	1
Cryptopleura ramosa	A red seaweed	F	F	1
Delesseria sanguinea	Sea beech	F	F	1
Hypoglossum hypoglossoides	A red seaweed	F	F	1
Phycodrys rubens	Sea oak	F	F	1
Halopithys incurvus	A red seaweed	O to F	O	1
Dictyopteris membranacea	A brown seaweed	F	F	1
Laminaria	Kelp	F	F	1

Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Algae/Plants				
Zostera marina	Sea grass / common eel grass	R	R	HAP
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	R	R	Climate
Chordata				
Ctenolabrus rupestris	Goldsinny	O	O	Climate
Cnidaria (Corals, anemones, hydroids)				
Anemonia viridis	Snakelocks anemone	O to R	R	Climate
Crustacea				
Maja squinado	Spiny spider crab	O to P	R	Climate

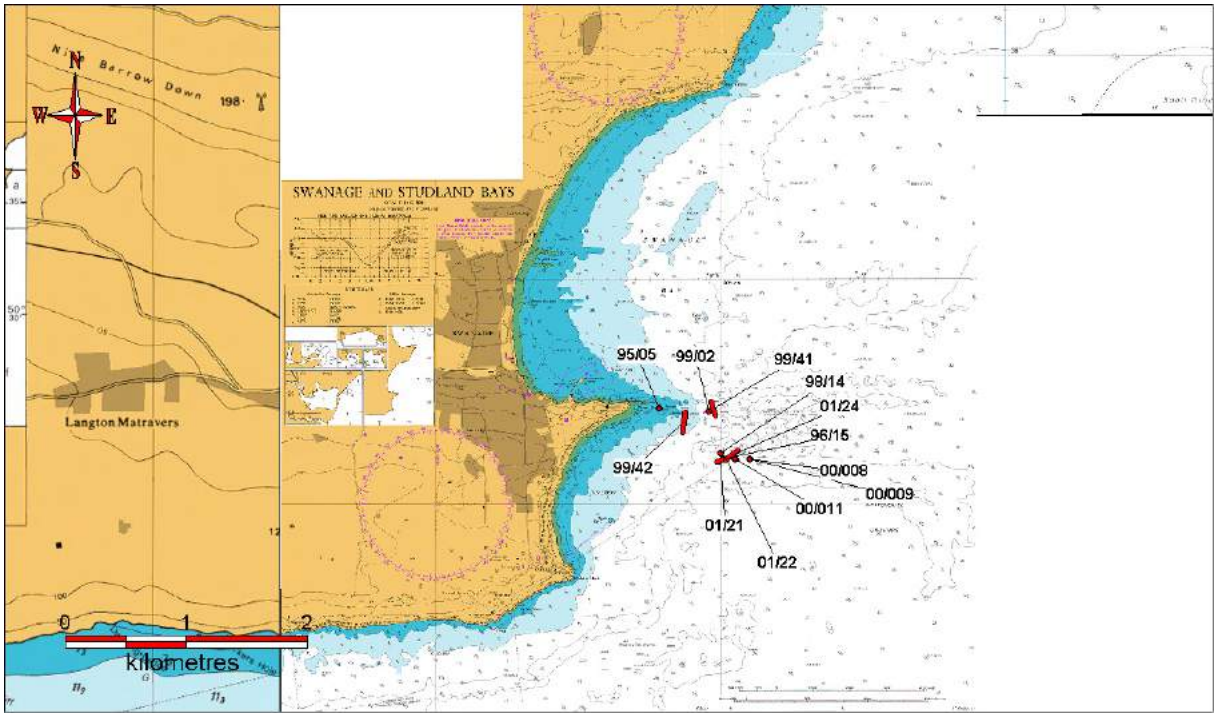


Sketch from dive 01/14

Peveril Ledge

Number of Seasearch dives 12

Number of species/groups recorded 103



Physical environment:

Depth range 12-24m

This is an area of considerable tide flow with a tidal race developing on the SSW stream. Ledges of limestone face south, forming vertical walls up to 3m high, with deep horizontal crevices. In between these ledges and to the south are deep waves of very mobile dead/fossil maerl gravel, with a small amount of live maerl recorded.

Habitat/Community types:

Horizontal surfaces generally covered in a dense turf of red algae, including *Rhodymenia holmesii*. On vertical surfaces, sponges dominate, especially *Pachymatisma johnstonia* and *Esperiopsis fucorum* but also including *Dercitus bucklandi, Ciocalypta penicillus, Hemimycale columella* and *Dysidea fragilis*. Deadmens fingers, *Alcyonium digitatum*, the hydroid *Nemertesia antennina* and the bryozoans *Flustra foliacea* and *Pentapora foliacea* also feature prominently here. Fish life includes several wrasse species, shoals of pouting, *Trisopterus luscus,* numerous tompot blennies, *Parablennius gattorugine* with leopard spotted gobies, *Thorogobius ephippiatus* frequently recorded in/near crevices.

To the north the seabed is flat with sponges, hydroids and bryozoans, including football sized *Pentapora foliacea*. Little/no life reported in association with the waves of dead maerl.

Observations/Features of Interest:

The Korean sea-squirt, *Styela clava*, was recorded here. A couple of flourishing stands of the hydroid, *Gymnangium montagui*, were reported on dive 99/02.

Recorded biotopes

Sublittoral sediment

Circalittoral coarse sediment

Infralittoral rock (and other hard substrata)

Kelp with cushion fauna and/or foliose red seaweeds

Foliose red seaweeds on exposed lower infralittoral rock

Infralittoral surge gullies and caves

Coralline crusts in surge gullies and scoured infralittoral rock

Circalittoral rock (and other hard substrata)

Echinoderms and crustose communities

Faunal and algal crusts on exposed to moderately wave-exposed circalittoral rock

Mixed faunal turf communities

Sponges and anemones on vertical circalittoral bedrock

Sparse sponges, ***Nemertesia*** spp. and ***Alcyonidium diaphanum*** on circalittoral mixed substrata

Bryozoan turf and erect sponges on tide-swept circalittoral rock

Circalittoral caves and overhangs

Most frequently recorded species

Number of Seasearch dives	12
Number of species/groups recorded	103

Species	Common name	No. of records	Abundance range
Pachymatisma johnstonia	Elephant's ear sponge	10	P to A
Alcyonium digitatum	Dead man's fingers soft coral	9	P to C
Parablennius gattorugine	Tompot blenny	8	P to A
Thorogobius ephippiatus	Leopard-spotted goby	8	P to F
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	8	P to O
Bispira volutacornis	Double crowned fan worm	7	P to F
Cancer pagurus	Edible crab / brown crab /great crab	7	P to O
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	7	P to A
Labrus mixtus	Cuckoo wrasse	7	P to O
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	7	P to C
Flustra foliacea	Hornwrack / leafy bryozoan	6	P to C
Trisopterus luscus	Bib/ pouting	6	P to C
Clavelina lepadiformis	Lightbulb seasquirt	6	P to O
Rhodophycota	Red seaweeds	5	P to A
Labrus bergylta	Ballan wrasse	5	R to O
Pentapora foliacea	Ross coral/potato crisp bryozoan	5	P to F
Dysidea fragilis	Goose bump/hedgehog sponge	5	P to C
Henricia oculata	Bloody Henry starfish	5	P to O
Ctenolabrus rupestris	Goldsinny	5	P to F
Hemimycale columella	Pink/orange crater sponge	4	P to C
Homarus gammarus	Common lobster	4	P to O
Dercitus bucklandi	Black tar sponge	4	P to O
Corallinaceae	Pink coralline algae	4	O to A
Ciocalypta penicillus	Tapered chimney sponge	4	O
Esperiopsis fucorum	Shredded carrot sponge	4	P to S
Porifera	Sponges	4	P to C

Vertical face with Esperiopsis fucorum and Pachymatisma johnstonia

Deadmens fingers, Alcyonium digitatum, under overhanging ledge

Species sorted by maximum recorded abundance

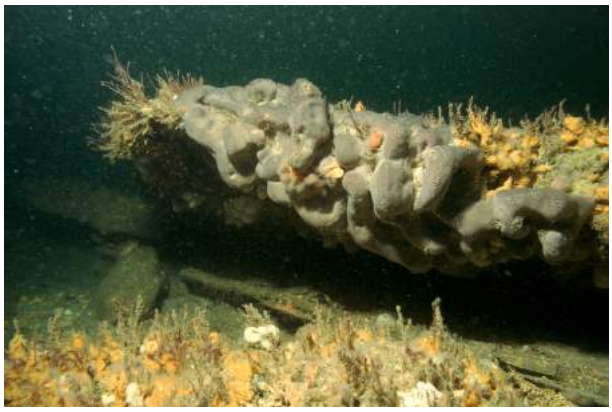
Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = S				
Esperiopsis fucorum	Shredded carrot sponge	P to S	F	4
Aglaophenia	A hydroid	S	S	1
Rhodymenia holmesii	A red seaweed	C to S	A	3
Max abundance = A				
Pachymatisma johnstonia	Elephant's ear sponge	P to A	O	10
Hydrozoa	Hyrdoids/ sea firs	F to A	C	1
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	P to A	O	7
Bryozoa	Sea mats / moss animals	F to A	C	1
Parablennius gattorugine	Tompot blenny	P to A	O	8
Rhodophycota	Red seaweeds	P to A	O	5
Corallinaceae	Pink coralline algae	O to A	F	4
Max abundance = C				
Porifera	Sponges	P to C	O	4
Hemimycale columella	Pink/orange crater sponge	P to C	O	4
Dysidea fragilis	Goose bump/hedgehog sponge	P to C	O	5
Sertularia argentea	Bottlebrush hydroid	C	C	1
Nemertesia ramosa	Branched antenna hydroid	C	C	1
Aglaophenia parvula	A hydroid	C	C	1
Alcyonium digitatum	Dead man's fingers soft coral	P to C	O	9
Epizoanthus couchii	Brown star anemone	C	C	1
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	P to C	O	7
Flustra foliacea	Hornwrack / leafy bryozoan	P to C	O	6
Trisopterus luscus	Bib/ pouting	P to C	O	6
Phyllophora crispa	A red seaweed	O to C	F	2

Deep layer of maerl gravel at base of ledge

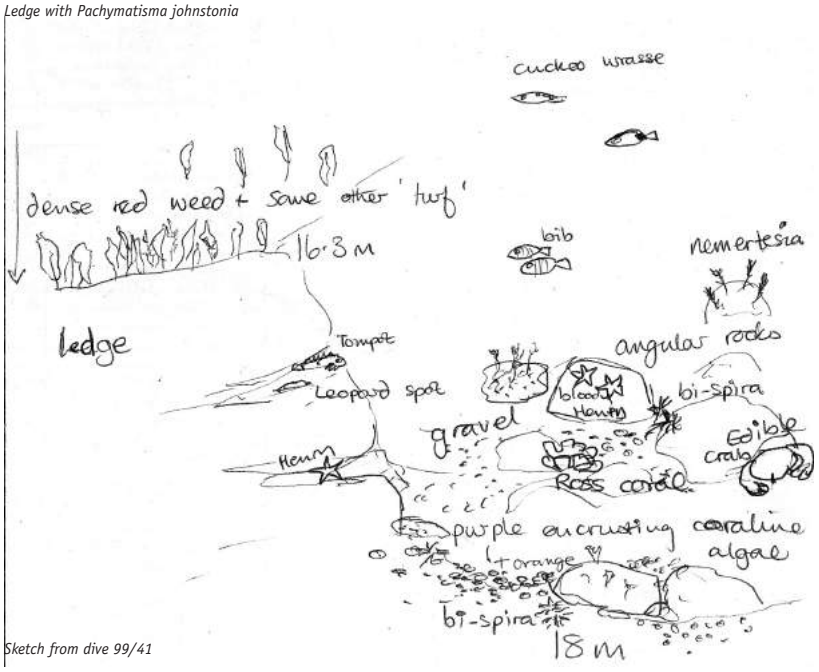
Lobster alongside ledge

Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Algae/Plants				
Phymatolithon calcareum	Maerl	R to P	P	HAP
Annelida (Worms)				
Sabellaria spinulosa	Ross worm	P	P	HAP
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	F to P	R	Climate
Chordata				
Cyclopterus lumpus	Lumpsucker	P	P	Climate
Ctenolabrus rupestris	Goldsinny	F to P	R	Climate
Centrolabrus exoletus	Rock cook	O to P	R	Climate
Crustacea				
Maja squinado	Spiny spider crab	R to P	P	Climate
Tunicata (sea squirts)				
Styela clava	Stalked seasquirt / leathery seasquirt	R	R	Introduced



Ledge with Pachymatisma johnstonia

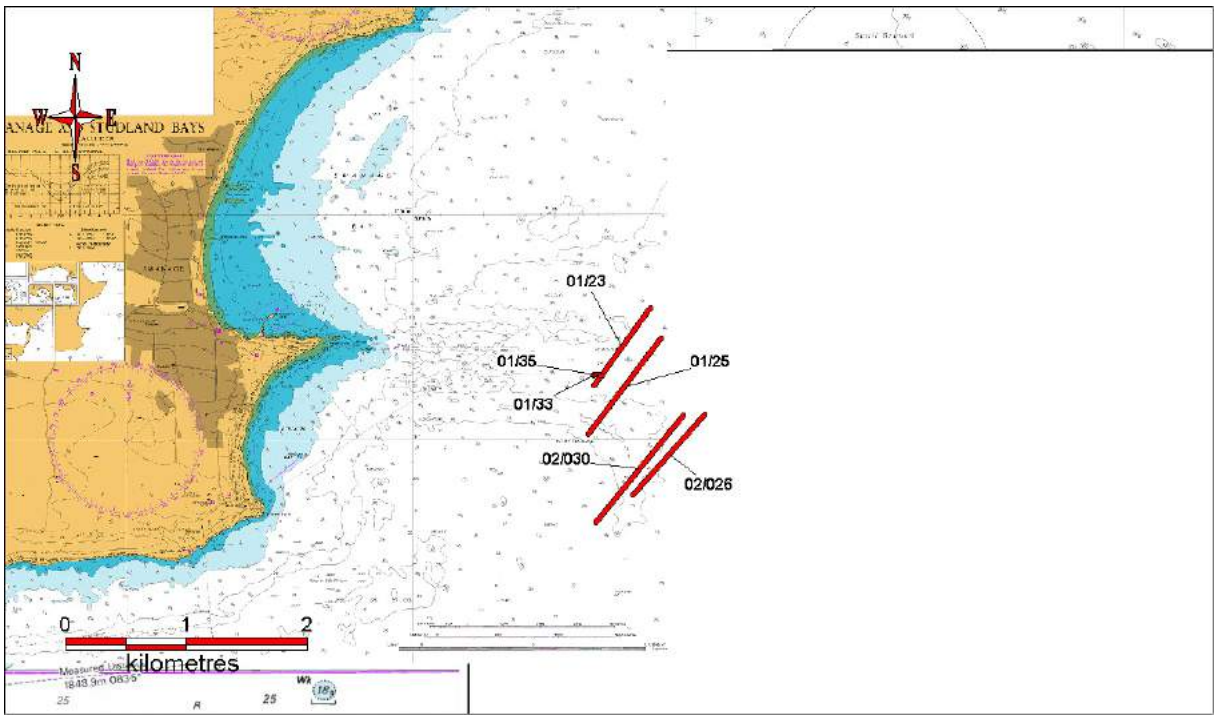


Sketch from dive 99/41

Whitehouse Grounds

Number of Seasearch dives 6

Number of species/groups recorded 74



Physical environment:

Depth range 18-26m

A rocky area with fissures and gullies and southwest facing ledges to about 1.5m high, giving way to broken rocky ground with pebbles and cobbles and finally to large sand waves, up to 3m high.

Habitat/Community types:

At 18m, the rocky seabed was covered by dense red algae, including *Plocamium cartilagineum*. In deeper parts this was replaced by encrusting tunicates and a sand scoured tunicate/bryozoan turf with *Flustra foliacea*. Dives 02/026 and 02/030 discovered south-west facing ledges to 1m high with a rich variety of axinellid, raspailiid and encrusting sponges, hydroids and tunicates. Broken boulders and low overhangs provided a variety of microhabitats. Beyond 23m the seabed was smooth, sand scoured bedrock covered in mussels on the north-east facing dip slopes.

An area of cobbles on mobile sediment contained restricted fauna - cobbles encrusted with barnacles and frequent *Alcyonidium diaphanum*.

Observations/Features of Interest:

The final section of dive 02/030 included an area of very clean, mobile coarse sand and scattered bedrock with occasional stands of *Sabellaria spinulosa* reefs (to 20cm high/50cm diameter). This is also one of the few places in Dorset where the orange form of *Alcyonium digitatum* is recorded.

Recorded biotopes

Sublittoral sediment

Circalittoral mixed sediment

Circalittoral coarse sediment

Polychaete worm reefs (on sublittoral sediment)

Sabellaria spinulosa on stable circalittoral mixed sediment

Circalittoral rock (and other hard substrata)

Echinoderms and crustose communities

Faunal and algal crusts on exposed to moderately wave-exposed circalittoral rock

Circalittoral mussel beds on rock

Mixed faunal turf communities

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

Polyclinum aurantium and *Flustra foliacea* on sand-scoured tide-swept moderately wave-exposed circalittoral rock

Bryozoan turf and erect sponges on tide-swept circalittoral rock

Orange form of Alcyonium digitatum

Most frequently recorded species

Number of Seasearch dives	6
Number of species/groups recorded	74

Species	Common name	No. of records	Abundance range
Flustra foliacea	Hornwrack / leafy bryozoan	5	R to A
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	4	P to F
Alcyonium digitatum	Dead man's fingers soft coral	4	R to F
Maja squinado	Spiny spider crab	4	R to F
Pentapora foliacea	Ross coral/potato crisp bryozoan	4	P to O
Bispira volutacornis	Double crowned fan worm	3	R to O
Cancer pagurus	Edible crab / brown crab /great crab	3	P to O
Cliona celata	Sulphur sponge / yellow boring sponge	3	O to F
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	3	O
Polymastia mamillaris	*Chimney sponge*	3	O
Styela clava	Stalked seasquirt / leathery seasquirt	3	R to O
Trisopterus luscus	Bib/ pouting	2	O to F
Hemimycale columella	Pink/orange crater sponge	2	O
Mytilus edulis	Blue / edible / common mussel	2	A
Vesicularia spinosa	Spiny bush bryozoan	2	O to F
Didemnidae	Sea squirts	2	F
Ctenolabrus rupestris	Goldsinny	2	O
Parablennius gattorugine	Tompot blenny	2	O
Phymatolithon calcareum	Maerl	2	P to R
Hydrozoa	Hydroids/ sea firs	2	O to F
Ciocalypta penicillus	Tapered chimney sponge	2	O
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	2	R to O
Polymastia boletiformis	Chimney ball sponge	2	O
Urticina	Dahlia anemone	2	O
Axinellidae	A sponge	2	O to F
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	2	O
Ascidia virginea	Pink seasquirt	2	O
Botryllus schlosseri	Star seasquirt	2	R to O
Alcyonidium diaphanum	Jelly baby/finger bryozoan / sea chervil/ Dogger Bank itch	2	O to F
Cirripedia	Barnacles	2	O to S

Pachymatisma johnstonia with encrusting bryozoan

Sponge, Raspailia ramosa

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = S				
Cirripedia	Barnacles	O to S	C	2
Max abundance = A				
Mytilus edulis	Blue / edible / common mussel	A	A	2
Flustra foliacea	Hornwrack / leafy bryozoan	R to A	F	5
Ascidiacea	Sea squirts	A	A	1
Pycnoclavella aurilucens	Diode seasquirt	A	A	1
Max abundance = C				
Plocamium cartilagineum	Red comb weed / cockscombe / scarlet hair flag	C	C	1
Max abundance = F				
Cliona celata	Sulphur sponge / yellow boring sponge	O to F	O	3
Axinellidae	A sponge	O to F	O	2
Esperiopsis fucorum	Shredded carrot sponge	F	F	1
Porifera indet crusts	Sponge crusts	F	F	1
Hydrozoa	Hydroids/ sea firs	O to F	O	2
Abietinaria abietina	A hydroid	O to F	O	1
Aglaophenia parvula	A red seaweed	F	F	1
Alcyonium digitatum	Dead man's fingers soft coral	R to F	O	4
Homarus gammarus	Common lobster	F	F	1
Maja squinado	Spiny spider crab	R to F	O	4
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	P to F	R	4
Alcyonidium diaphanum	Jelly baby/finger bryozoan / sea chervil/ Dogger Bank itch	O to F	O	2
Vesicularia spinosa	Spiny bush bryozoan	O to F	O	2
Polyclinum aurantium	Sandy colonial seasquirt	F	F	1
Didemnidae	Sea squirts	F	F	2
Distomus variolosus	Orange sweetcorn/lesser gooseberry seasquirt	F	F	1
Stolonica socialis	Baked bean / sociable seasquirt / orange sea grapes	F	F	1
Trisopterus luscus	Bib/ pouting	O to F	O	2
Rhodophycota	Red seaweeds	F	F	1

Sketch from dive 98/13

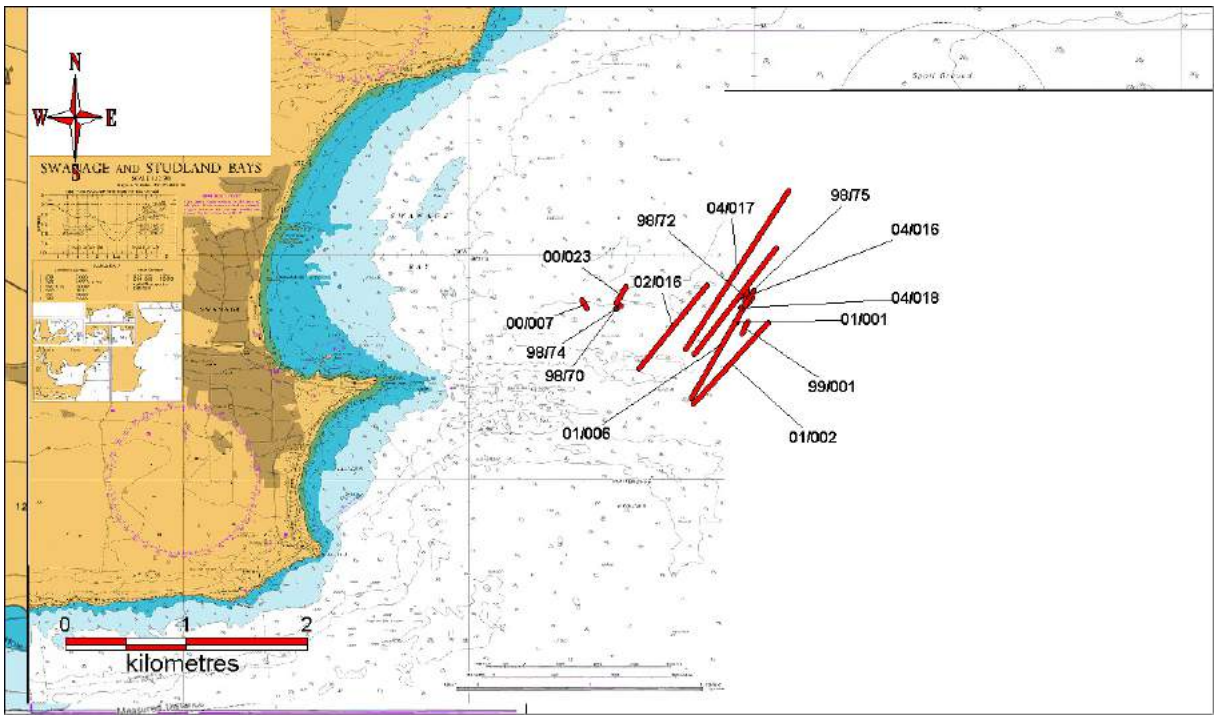
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Algae/Plants				
Phymatolithon calcareum	Maerl	R to P	P	HAP
Annelida (Worms)				
Sabellaria spinulosa	Ross worm	O	O	HAP
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	O to P	R	Climate
Chordata				
Ctenolabrus rupestris	Goldsinny	O	O	Climate
Cnidaria (Corals, anemones, hydroids)				
Anemonia viridis	Snakelocks anemone	O	O	Climate
Crustacea				
Maja squinado	Spiny spider crab	F to R	O	Climate
Mollusca				
Crepidula fornicata	Slipper limpet	R	R	Introduced
Porifera (Sponges)				
Stelletta grubii	Overhang overgrown sponge	O	O	SOCC NS
Tunicata (sea squirts)				
Styela clava	Stalked seasquirt / leathery seasquirt	O to R	R	Introduced

Sabellaria patch

Number of Seasearch dives 15

Number of species/groups recorded 112



Physical environment:

Depth range 21-26m

An area of mostly waved coarse sand/gravel with shell pieces. There are some small ridges or ledges but the main structures are those formed by the reef-building worm, *Sabellaria spinulosa*. These are formed from tubes built out of coarse sand grains and shell pieces. They can be quite large - up to 30cm high and 60cm across, but fairly fragile.

Habitat/Community types:

Small pebbles were covered with barnacles and keelworms and larger cobbles and rocky structures covered with *Flustra foliacea*, sponges and hydroids. In places the *Sabellaria spinulosa* structures covered up to 50% of the seabed. The anemone, *Actinothoe sphyrodeta*, was common on some of the *Sabellaria* cobbles - other species such as *Urticina felina, Nemertesia antennina* and *Alcyonidium diaphanum* were also associated with the worm structures. Mobile species such as hermit crabs, spider crabs, edible crabs and squat lobsters were recorded near the *Sabellaria* cobbles. Some samples were collected for closer analysis, which led to a considerable species list for this site.

Observations/Features of Interest:

A chance discovery in 1999 led to many subsequent dives in this area, with an extensive patch of *Sabellaria* boulders/cobbles being discovered. There appears to be considerable variability year to year, with the *Sabellaria* structures being buried under sand waves occasionally. There is also evidence of damage to these fragile structures by beam trawling.

Recorded biotopes

Sublittoral sediment

Circalittoral mixed sediment

Cerianthus lloydii and other burrowing anemones in circalittoral muddy mixed sediment

Cerianthus lloydii with *Nemertesia spp.* and other hydroids in circalittoral muddy mixed sediment

Circalittoral coarse sediment

Neopentadactyla mixta in circalittoral shell gravel or coarse sand

Polychaete worm reefs (on sublittoral sediment)

Sabellaria spinulosa on stable circalittoral mixed sediment

Circalittoral rock (and other hard substrata)

Mixed faunal turf communities

Detail of Sabellaria spinulosa tubes

Most frequently recorded species

Number of Seasearch dives	15
Number of species/groups recorded	112

Species	Common name	No. of records	Abundance range
Sabellaria spinulosa	Ross worm	13	P to A
Urticina	Dahlia anemone	9	P to F
Flustra foliacea	Hornwrack / leafy bryozoan	9	P to C
Cancer pagurus	Edible crab / brown crab /great crab	7	P to F
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	7	P to F
Cereus pedunculatus	Daisy anemone	6	P to O
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	6	P to C
Alcyonium digitatum	Dead man's fingers soft coral	5	P to O
Cirripedia	Barnacles	5	O to F
Crepidula fornicata	Slipper limpet	4	P to C
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	4	P to O
Botryllus schlosseri	Star seasquirt	4	P to O
Hinia reticulata	Netted dogwhelk	4	R to F
Alcyonidium diaphanum	Jelly baby/finger bryozoan / sea chervil/ Dogger Bank itch	4	P to O
Pomatoceros	Keel worms	4	O to C
Ascidiacea	Sea squirts	4	P to O
Lanice conchilega	Sandmason worm	4	P to O
Pentapora foliacea	Ross coral/potato crisp bryozoan	3	P to O
Pagurus bernhardus	Large/common/soldier hermit crab	3	P to F
Paguridae	Hermit crab family	3	F to C
Gobiidae	Goby family	3	R to F
Majidae	Spider crab family	3	R to C
Ctenolabrus rupestris	Goldsinny	3	P to O
Aequipecten opercularis	Queen scallop or queenie	3	P to O
Trisopterus luscus	Bib/ pouting	3	R to O
Sagartia	An anemone	3	P to O
Maja squinado	Spiny spider crab	3	R to C
Hydrozoa	Hydroids/ sea firs	3	P to F

Goby sheltering under Sabellaria encrusted boulder

Sea-squirts on pebble with Sabellaria tubes

Species sorted by maximum recorded abundance

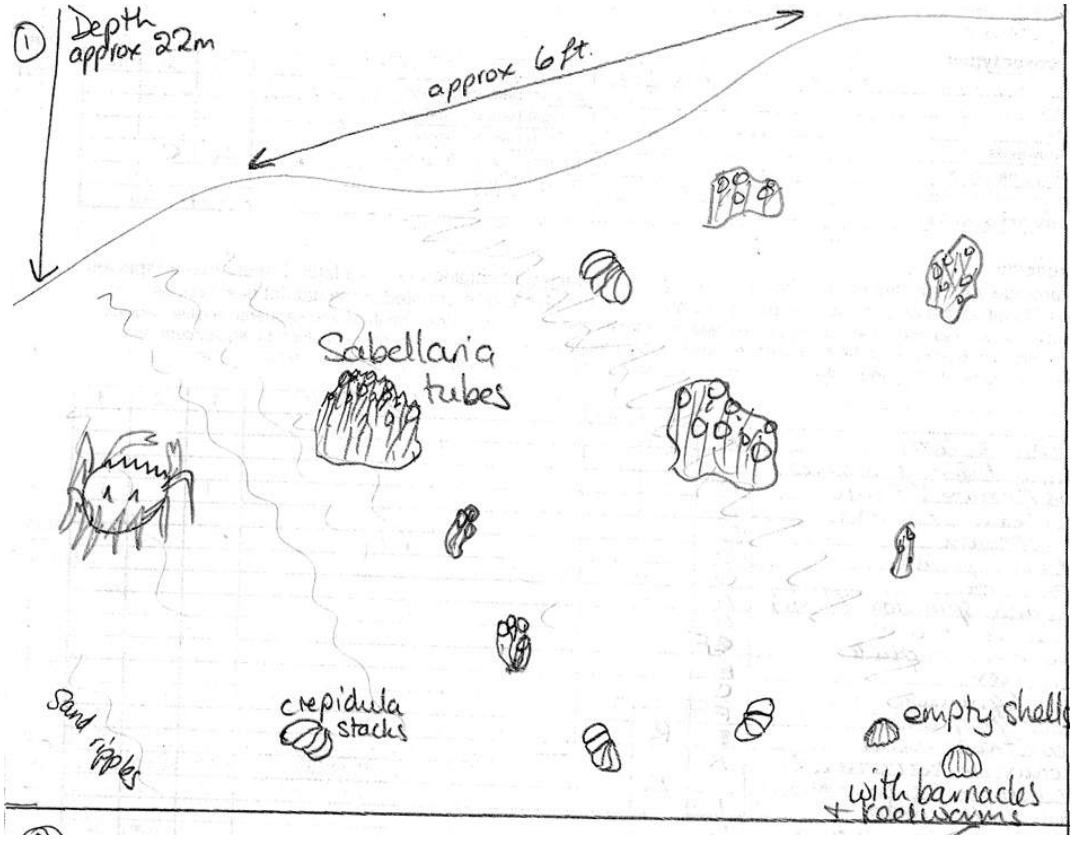
Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Sabellaria spinulosa	Ross worm	P to A	O	13
Max abundance = C				
Pomatoceros	Keel worms	O to C	F	4
Paguridae	Hermit crab family	F to C	F	3
Majidae	Spider crab family	R to C	O	3
Maja squinado	Spiny spider crab	R to C	O	3
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	P to C	O	6
Crepidula fornicata	Slipper limpet	P to C	O	4
Flustra foliacea	Hornwrack / leafy bryozoan	P to C	O	9
Labrus bergylta	Ballan wrasse	O to C	F	2
Pomatoschistus microps	Common goby	C	C	1
Pomatoschistus minutus	Sand goby	C	C	1
Max abundance = F				
Porifera indet crusts	Sponge crusts	F	F	1
Hydrozoa	Hydroids/ sea firs	P to F	R	3
Kirchenpaueria pinnata	A hydroid	P to F	R	2
Urticina	Dahlia anemone	P to F	R	9
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	P to F	R	7
Pomatoceros triqueter	Keel worm	F	F	1
Cirripedia	Barnacles	O to F	O	5
Pagurus bernhardus	Large/common/soldier hermit crab	P to F	R	3
Cancer pagurus	Edible crab / brown crab /great crab	P to F	R	7
Hinia reticulata	Netted dogwhelk	R to F	O	4
Ammodytes	Sand eels	F	F	1
Callionymus lyra	Common dragonet	P to F	R	2
Gobiidae	Goby family	R to F	O	3

Queen scallop on barnacle encrusted cobble

Dahlia anemone on Sabellaria tubes

Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Algae/Plants				
Phymatolithon calcareum	Maerl	P	P	HAP
Annelida (Worms)				
Sabellaria spinulosa	Ross worm	A to P	O	HAP
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	O to P	R	Climate
Chordata				
Ctenolabrus rupestris	Goldsinny	O to P	R	Climate
Crustacea				
Maja squinado	Spiny spider crab	C to R	O	Climate
Mollusca				
Crepidula fornicata	Slipper limpet	C to P	O	Introduced
Tunicata (sea squirts)				
Styela clava	Stalked seasquirt / leathery seasquirt	P	P	Introduced

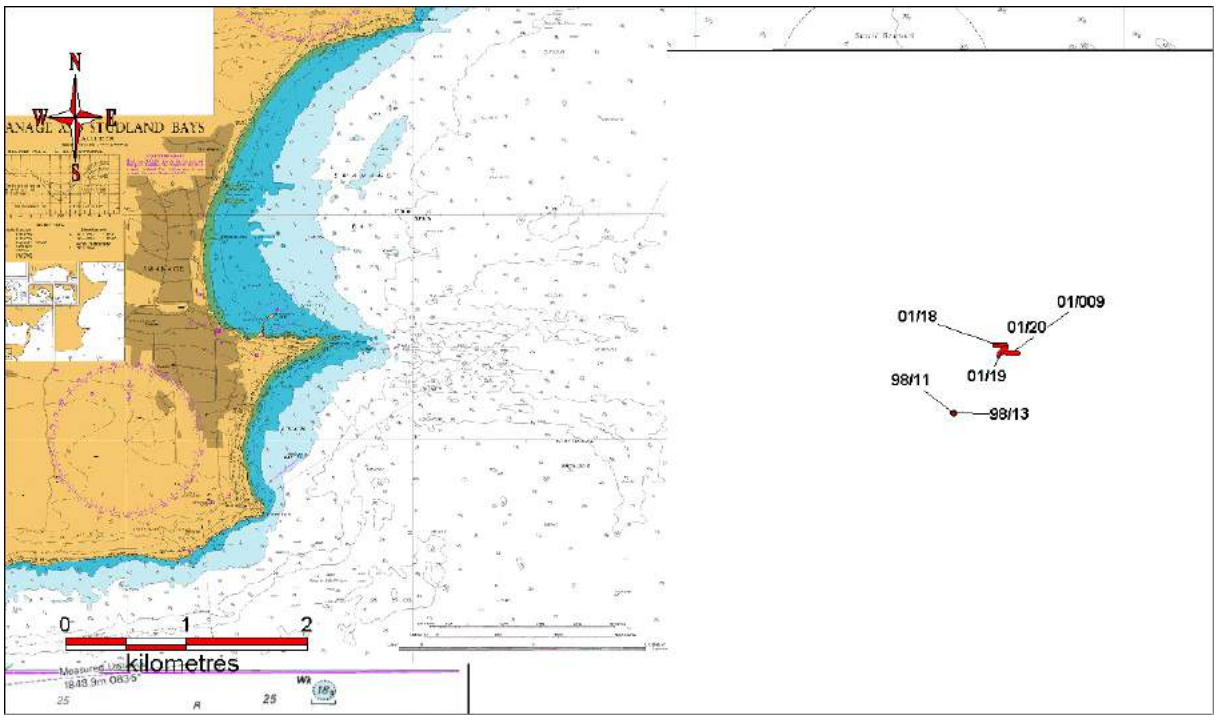


Sabellaria patch

East of Peveril Point

Number of Seasearch dives 5

Number of species/groups recorded 54



Physical environment:

Depth range 19-27m

Waves of clean coarse sand/gravel with occasional boulders. Scoured bedrock showing through in places. Dives 98/13 and 98/11 were expecting to find a rocky reef but this appeared to be covered by a large dune of mobile, clean coarse sand/gravel. The sand here is so mobile that a site buoyed and dived at slack water was unrecognisable on the next slack, six hours later.

Habitat/Community types:

Sand/gravel waves largely devoid of life. Boulders are covered in a dense animal turf of sponges (including *Polymastia* and *Ciocalypta*), hydroids, deadmens fingers, *Flustra foliacea* and tunicates, including *Polycarpa* and *Dendrodoa*.

Observations/Features of Interest:

Few mobile species were noted, particularly at sites 98/13, 98/11 - described as a fishing reef. The ross-worm, *Sabellaria spinulosa*, formed crusts on some of the boulders, but no significant structures formed by these worms were recorded.

Recorded biotopes

Sublittoral sediment

Circalittoral mixed sediment

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

Circalittoral coarse sediment

Circalittoral rock (and other hard substrata)

Mixed faunal turf communities

Sparse sponges, *Nemertesia spp*. and *Alcyonidium diaphanum* on circalittoral mixed substrata

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

Flustra foliacea and colonial ascidians on tide-swept exposed circalittoral mixed substrata

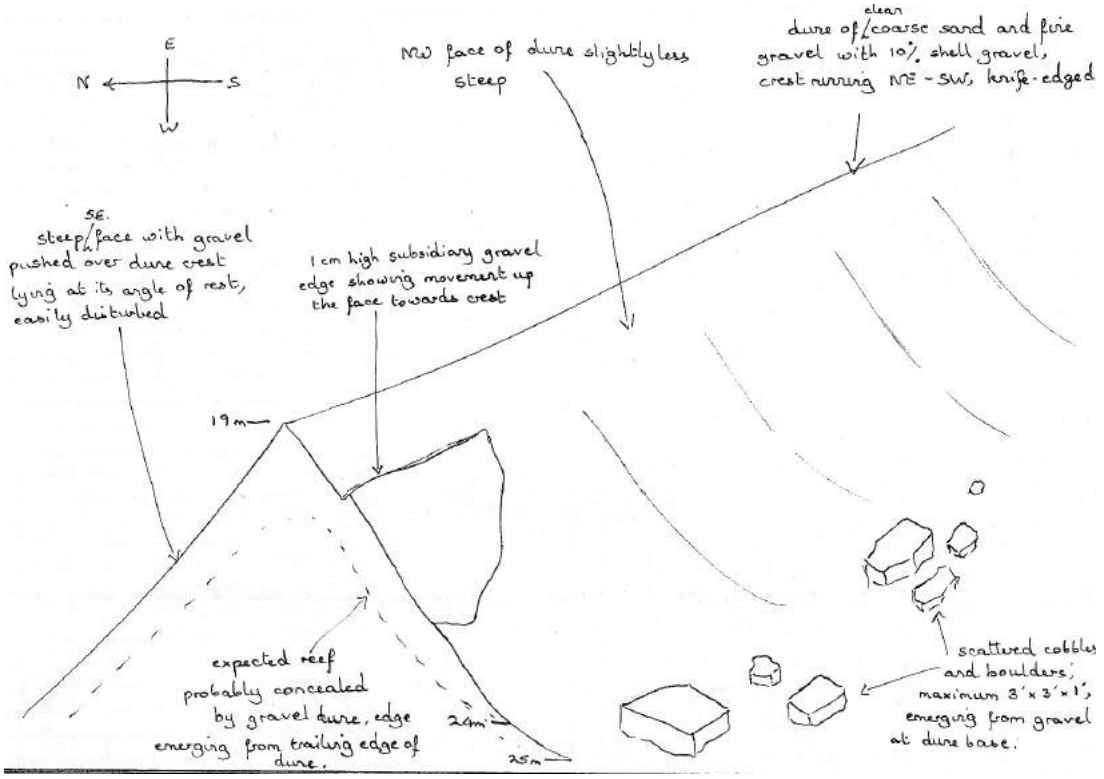
Most frequently recorded species

Number of Seasearch dives	5
Number of species/groups recorded	54

Species	Common name	No. of records	Abundance range
Flustra foliacea	Hornwrack / leafy bryozoan	6	P to A
Alcyonium digitatum	Dead man's fingers soft coral	6	P to C
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	5	P to O
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	5	P to C
Ciocalypta penicillus	Tapered chimney sponge	4	P to C
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	4	R to O
Pentapora foliacea	Ross coral/potato crisp bryozoan	4	R to O
Cancer pagurus	Edible crab / brown crab /great crab	4	R to O
Tethya aurantium	Golf ball sponge	3	P to O
Pachymatisma johnstonia	Elephant's ear sponge	3	P to O
Nemertesia ramosa	Branched antenna hydroid	3	R to C
Axinella dissimilis	Yellow staghorn sponge	3	R to C
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	2	R to F
Hydrallmania falcata	Spiralled sea fir / helter-skelter hydroid	2	P to R
Cirripedia	Barnacles	2	C to A
Halichondria bowerbanki	Pale yellow breadcrumb sponge	2	R
Galatheidae	Squat lobster family	2	O
Hydrozoa	Hydroids/ sea firs	2	O to C
Pomatoschistus minutus	Sand goby	2	O to C
Paguridae	Hermit crab family	2	P to C
Trisopterus luscus	Bib/ pouting	2	R
Bugula	A bryozoan	2	O to C
Polymastia boletiformis	Chimney ball sponge	2	R to C
Pomatoceros lamarcki	Tri-keeled tube worm	2	O to C
Alcyonidium diaphanum	Jelly baby/finger bryozoan / sea chervil/ Dogger Bank itch	2	O to C

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Cirripedia	Barnacles	C to A	C	2
Flustra foliacea	Hornwrack / leafy bryozoan	P to A	O	6
Max abundance = C				
Porifera	Sponges	C	C	1
Polymastia boletiformis	Chimney ball sponge	R to C	O	2
Axinella dissimilis	Yellow staghorn sponge	R to C	O	3
Ciocalypta penicillus	Tapered chimney sponge	P to C	O	4
Halichondria panicea	Breadcrumb sponge	C	C	1
Hydrozoa	Hydroids/ sea firs	O to C	F	2
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	P to C	O	5
Nemertesia ramosa	Branched antenna hydroid	R to C	O	3
Alcyonium digitatum	Dead man's fingers soft coral	P to C	O	6
Lanice conchilega	Sandmason worm	C	C	1
Pomatoceros lamarcki	Tri-keeled tube worm	O to C	F	2
Paguridae	Hermit crab family	P to C	O	2
Bryozoa	Sea mats / moss animals	C	C	1
Alcyonidium diaphanum	Jelly baby/finger bryozoan / sea chervil/ Dogger Bank itch	O to C	F	2
Bugula	A bryozoan	O to C	F	2
Pomatoschistus minutus	Sand goby	O to C	F	2
Max abundance = F				
Sabellaria spinulosa	Ross worm	F	F	1
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	R to F	O	2



Sketch from dive 98/13

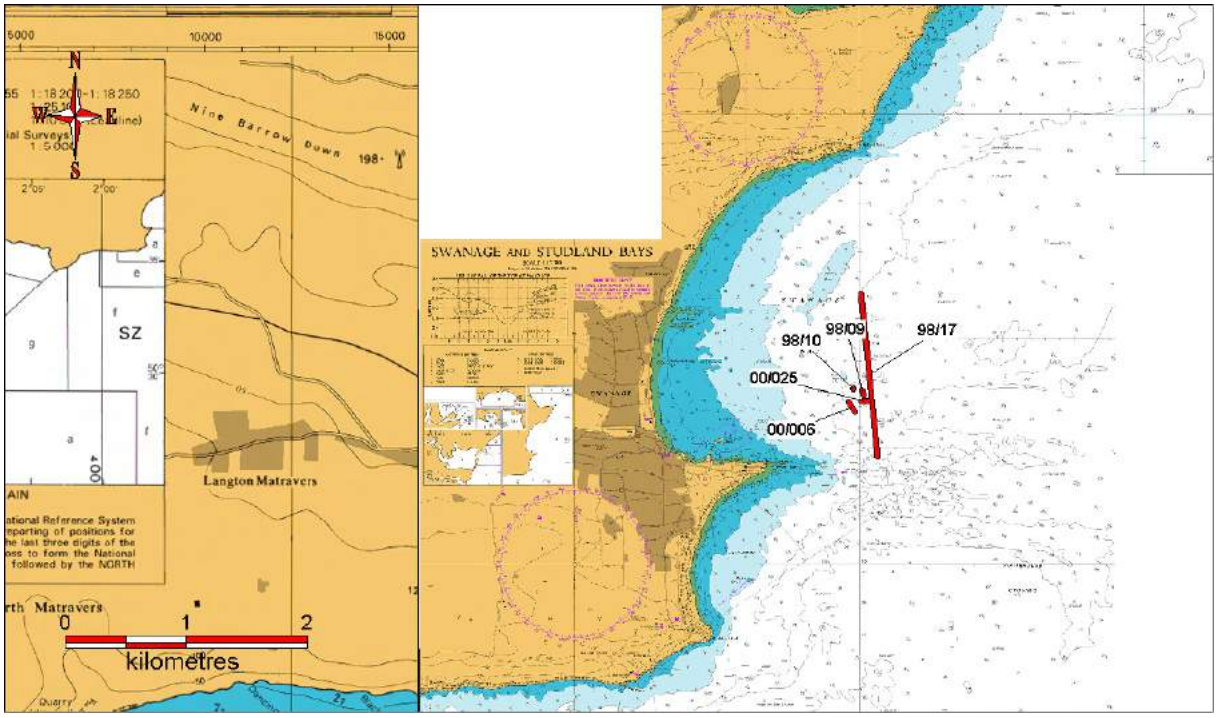
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Annelida (Worms)				
Sabellaria spinulosa	Ross worm	F	F	HAP
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	O to R	R	Climate
Crustacea				
Maja squinado	Spiny spider crab	O	O	Climate
Tunicata (sea squirts)				
Styela clava	Stalked seasquirt / leathery seasquirt	R	R	Introduced

Evans Rock

Number of Seasearch dives 5

Number of species/groups recorded 64



Physical environment:

Depth range 9-20m

The site marked on the chart as Evans Rock appears to be a gently sloping mound rising to 9m with a flattish top, covered with small, slab-like boulders and cobbles, separated by small areas of shelly sand.

To the south, near the Peveril Buoy, the seabed is bedrock and large boulders. To the north the seabed becomes a mosaic of boulder patches, dead maerl gravel and extensive *Ampelisca* beds.

Habitat/Community types:

The deeper rocky area near the Peveril Buoy is dominated by a hydroid/bryozoan turf with scattered sponges and sea-squirts and appears to be subject to strong currents and scour. Evans Rock has a diverse cover of sponges (*Esperiopsis fucorum, Hemimycale columella, Dysidea fragilis, Tethya aurantium*), hydroids (*Nemertesia, Plumularia, Aglaophenia*), bryozoans and tunicates (*Aplidium, Lissoclinum*). The fanworm, *Bispira volutacornis* is abundant here, as is the cowrie, *Trivia*. The boring phase of the sponge, *Cliona celata*, was spotted here and a patch of the horseshoe worm, *Phoronis* was seen at the base of a boulder. Three species of crevice dwelling sea-cucumber were recorded.

North of Evans Rock the seabed was covered in patches - often very extensive patches, of *Ampelisca* mats. These are formed by the silt tubes of millions of small amphipods and have the appearance of a grey silty carpet. The silt trapped by these amphipods can be over a foot deep.

Amongst the *Ampelisca* were patches of (mostly dead) maerl gravel with dahlia and *Cerianthus* anemones and occasional small boulders with hydroid/bryozoan turf.

Observations/Features of Interest:

The *Ampelisca* (since identified as *A. spinipes*) mats appear to be a persistent feature in this area and are also recorded from the area to the east of the wreck of the Fleur de Lys, a bit further to the north, and from east of Evans Rock. This seems to be a habitat of high productivity but low diversity.

Recorded biotopes

Sublittoral sediment

Circalittoral fine sand

Circalittoral mixed sediment

Infralittoral sandy mud

Ampelisca spp., *Photis longicaudata* and other tube-building amphipods and polychaetes in infralittoral sandy mud

Circalittoral rock (and other hard substrata)

Mixed faunal turf communities

Bryozoan turf and erect sponges on tide-swept circalittoral rock

Ross coral Photo Mike Markey

Most frequently recorded species

Number of Seasearch dives	5
Number of species/groups recorded	64

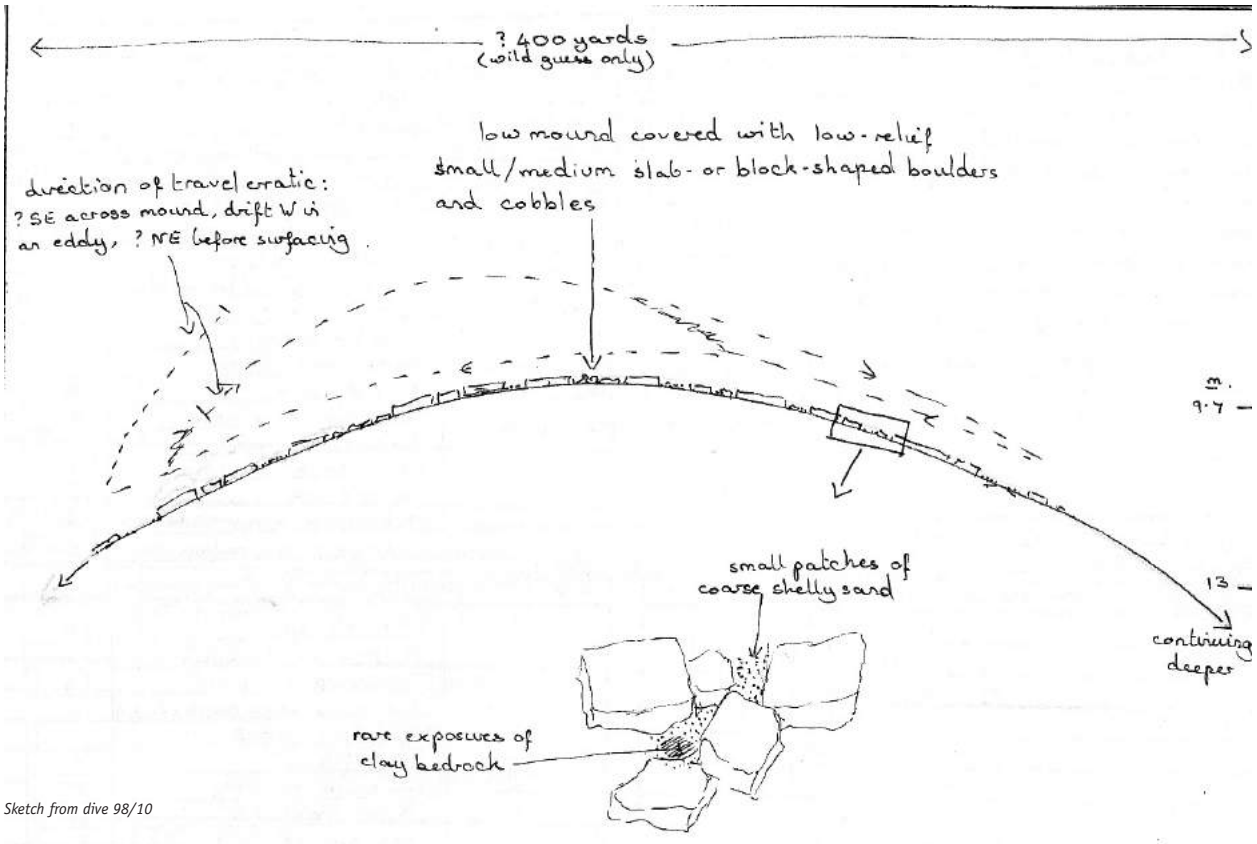
Species	Common name	No. of records	Abundance range
Bispira volutacornis	Double crowned fan worm	3	P to A
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	3	P to O
Aglaophenia	A hydroid	3	O
Dysidea fragilis	Goose bump/hedgehog sponge	3	R to O
Hemimycale columella	Pink/orange crater sponge	3	P to A
Flustra foliacea	Hornwrack / leafy bryozoan	3	P to A
Labrus bergylta	Ballan wrasse	3	P to O
Hydrozoa	Hydroids/ sea firs	3	P to F
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	3	O to C
Pachymatisma johnstonia	Elephant's ear sponge	2	P
Henricia oculata	Bloody Henry starfish	2	P to F
Pentapora foliacea	Ross coral/potato crisp bryozoan	2	R
Bugula	A bryozoan	2	R to O
Botryllus schlosseri	Star seasquirt	2	R
Porifera	Sponges	2	P
Esperiopsis fucorum	Shredded carrot sponge	2	O
Aplidium punctum	Single spotted colonial seasquirt	2	F to S
Ampelisca	Tube-building amphipod	2	A

Species sorted by maximum recorded abundance

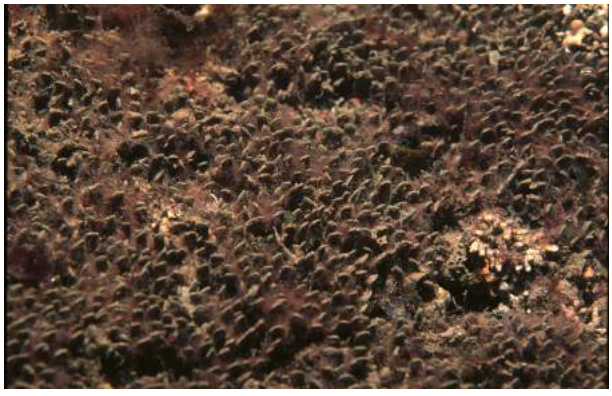
Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = S				
Aplidium punctum	Single spotted colonial seasquirt	F to S	C	2
Max abundance = A				
Hemimycale columella	Pink/orange crater sponge	P to A	O	3
Obelia dichotoma	A hydroid	A	A	1
Bispira volutacornis	Double crowned fan worm	P to A	O	3
Ampelisca	Tube-building amphipods	A	A	2
Trivia	Cowrie	A	A	1
Flustra foliacea	Hornwrack / leafy bryozoan	P to A	O	3
Max abundance = C				
Kirchenpaueria	A hydroid	C	C	1
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	O to C	F	3
Flabellina pedata	Violet sea slug	C	C	1
Rhodophycota	Red seaweeds	C	C	1
Ectocarpus	A brown algae	C	C	1

Species of interest

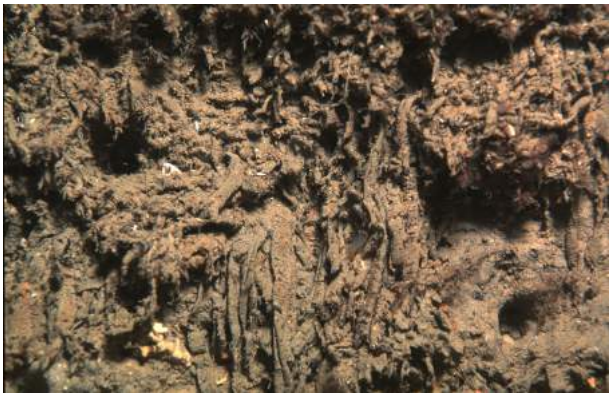
Species	Common name	Abundance range	Average abundance	Importance
Algae/Plants				
Phymatolithon calcareum	Maerl	P	P	HAP
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	R	R	Climate
Chordata				
Ctenolabrus rupestris	Goldsinny	P	P	Climate
Cnidaria (Corals, anemones, hydroids)				
Anemonia viridis	Snakelocks anemone	O	O	Climate
Tunicata (sea squirts)				
Styela clava	Stalked seasquirt / leathery seasquirt	P	P	Introduced



Sketch from dive 98/10



Ampelisca mat viewed from above

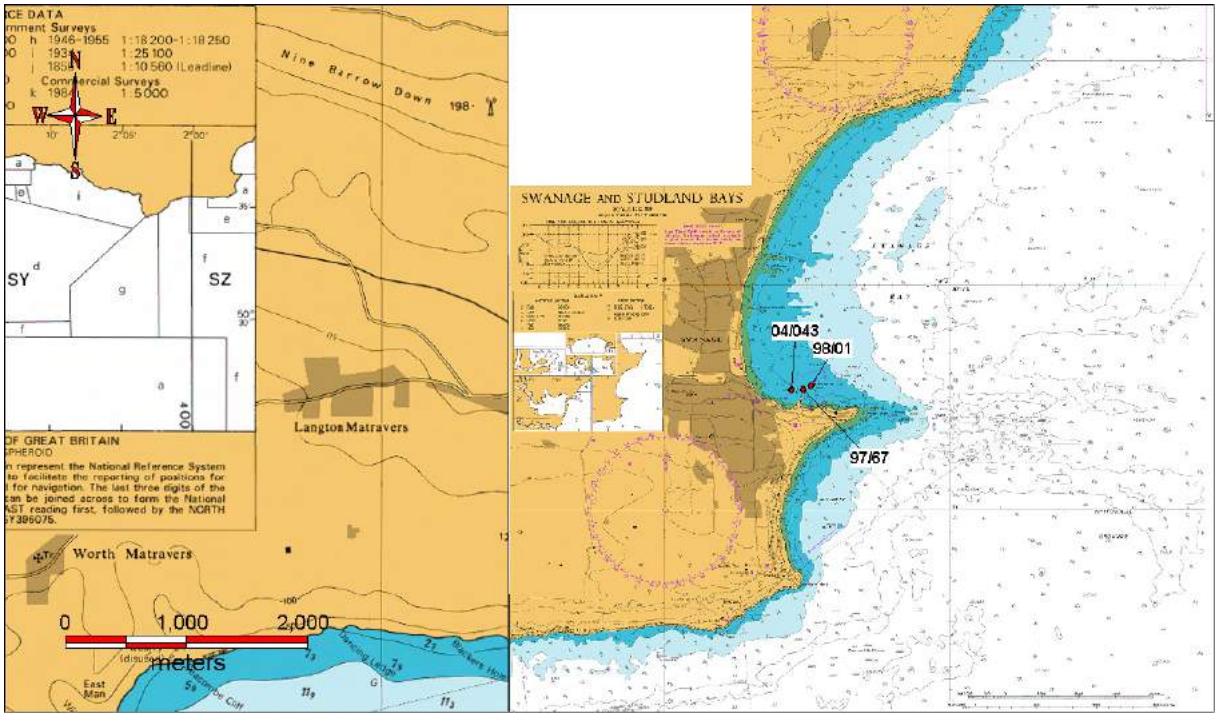


Side view of eroding edge of Ampelisca mat, showing exposed silt tubes

Swanage Pier

Number of Seasearch dives 3

Number of species/groups recorded 40



Physical environment:

Depth range 3-4m

A very heavily dived site but little recorded in Seasearch terms. The pier overlies a seabed of small boulders, cobbles and pebbles with patches of sand. As well as the existing pier piles (some of the original piles are still in place, but many were replaced a few years ago) there is a lot of pier debris (mostly wood and concrete) on the seabed.

The pier provides considerable shading which affects the habitats beneath. Outside of the pier there are similar boulder/cobble areas and areas of mostly sand.

Habitat/Community types:

The shaded pier legs are covered in an animal dominated community - mostly bryozoans and hydroids. The legs on the outer edges are covered in red and brown algae, including the large kelp, *Saccorhiza polyschides*. Corkwing wrasse and tompot blennies are associated with the pier legs and other large structures on the bottom and there a shoals of sand smelt, *Atherina presbyter*, in midwater. Ballan wrasse, pollack and grey mullet were also recorded.

On the seabed, the pebbles and cobbles are covered in keelworms and barnacles with sandmason worms. *Lanice conchilega*, very common. Dragonets and sand/common gobies were common on the sand. Around the pier, particularly between the pier and the remains of the old pier, there are areas of seagrass, *Zostera marina*.

Observations/Features of Interest:

The rare black-faced blenny, *Tripterygion delaisi,* has been frequently photographed and filmed under the pier, by Seasearch divers, but has not been officially recorded here. Small bass are common in the summer.

Recorded biotopes

Sublittoral sediment

Infralittoral fine sand

Infralittoral mixed sediment

Circalittoral coarse sediment

Infralittoral rock (and other hard substrata)

Silted kelp communities (sheltered infralittoral rock)

Sargassum muticum on shallow slightly tide-swept infralittoral mixed substrata

Mixed *Laminaria hyperborea* and *Laminaria saccharina* on sheltered infralittoral rock

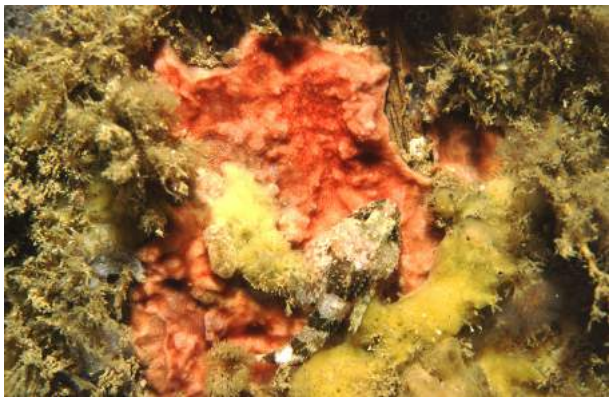
Infralittoral fouling seaweed communities

Hydroids on pier pile Photo Mike Markey

Most frequently recorded species

Number of Seasearch dives	3
Number of species/groups recorded	40

Species	Common name	No. of records	Abundance range
Botryllus schlosseri	Star seasquirt	3	O to C
Porifera	Sponges	2	O to C
Labrus bergylta	Ballan wrasse	2	O
Hydrozoa	Hydroids/ sea firs	2	P
Flustra foliacea	Hornwrack / leafy bryozoan	2	P to R
Parablennius gattorugine	Tompot blenny	2	P to C
Phaeophyceae	Brown seaweeds	2	P to A
Pollachius pollachius	Pollack	2	O
Pomatoceros	Keel worms	2	C
Crenilabrus melops	Corkwing	2	O to C
Rhodophycota	Red seaweeds	2	P to O
Callionymus lyra	Common dragonet	2	O to C
Anemonia viridis	Snakelocks anemone	2	O to C



Sea scorpion on bryozoan encrusted pier leg

Dragonet on sand beneath Swanage Pier

Corkwing wrasse in breeding colouration

Sand smelt, Atherina presbyter

Species sorted by maximum recorded abundance

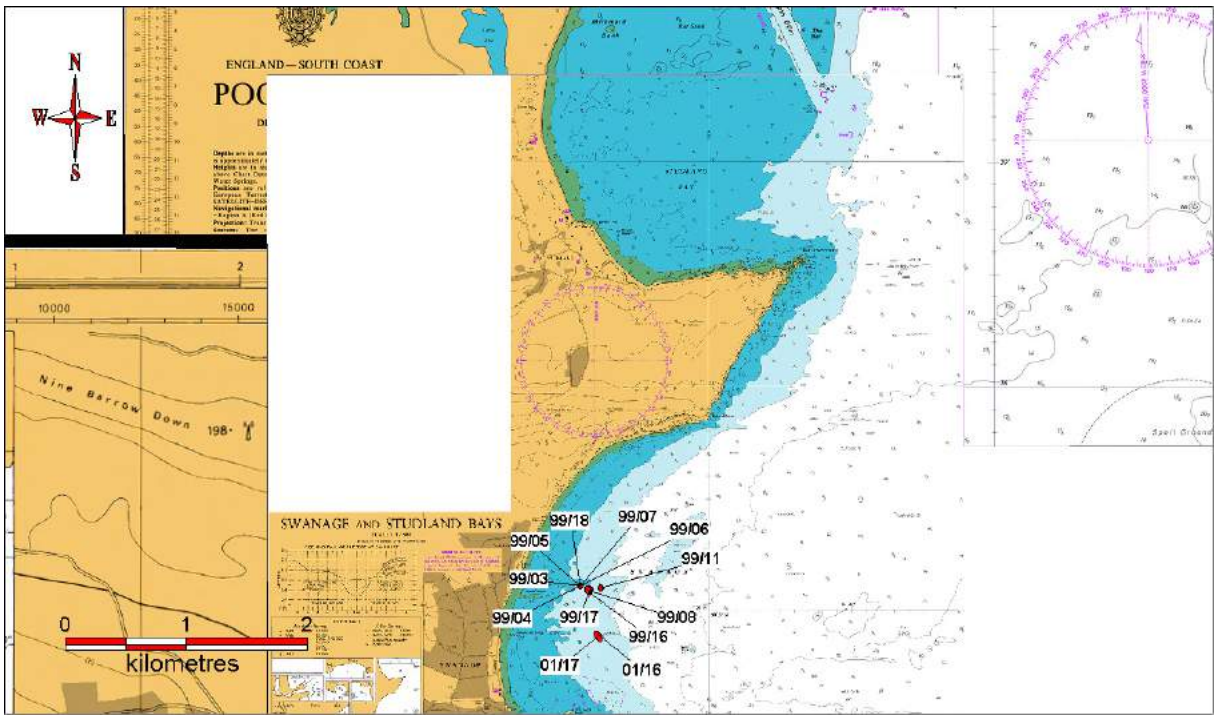
Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Lanice conchilega	Sandmason worm	O to A	F	1
Phaeophyceae	Brown seaweeds	P to A	O	2
Max abundance = C				
Porifera	Sponges	O to C	F	2
Anemonia viridis	Snakelocks anemone	O to C	F	2
Pomatoceros	Keel worms	C	C	2
Nucella lapillus	Dog whelk	C	C	1
Bugula plumosa	Tapered bottle brush bryozoan	C	C	1
Botryllus schlosseri	Star seasquirt	O to C	F	3
Labridae	Wrasses	C	C	1
Crenilabrus melops	Corkwing	O to C	F	2
Parablennius gattorugine	Tompot blenny	P to C	O	2
Callionymus lyra	Common dragonet	O to C	F	2
Rhodophycota indet.(non-calc.crusts)	Non-calcerous encrusting red seaweed	C	C	1
Zostera marina	Sea grass / common eel grass	C	C	1
Max abundance = F				
Pomatoschistus	Keel worms	F	F	1
Laminaria	Kelp	F	F	1

Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Algae/Plants				
Zostera marina	Sea grass / common eel grass	C	C	HAP
Chordata				
Zeus faber	John Dory	R	R	Climate
Centrolabrus exoletus	Rock cook	O	O	Climate
Cnidaria (Corals, anemones, hydroids)				
Anemonia viridis	Snakelocks anemone	C to O	F	Climate
Tunicata (sea squirts)				
Styela clava	Stalked seasquirt / leathery seasquirt	P	P	Introduced

Tanville Ledge

Number of Seasearch dives	12
Number of species/groups recorded	96



Physical environment:

Depth range 3-9m

This is a popular shallow second dive in Swanage Bay. The reef consists of rugged bedrock and jumbled boulders with gullies, overhangs and crevices. There are patches of shelly gravel and rippled sand, often overlying clay or sandstone which is exposed in places.

Habitat/Community types:

Upward facing rocky surfaces are dominated by kelps, including *Laminaria digitata, L. hyperborea* and *Saccorhiza polyschides* with red algae including *Calliblepharis ciliata, Delesseria sanguinea, Drachiella spectabilis, Phyllophora crispa, Plocamium cartilagineum Hypoglossum hypoglossoides* and encrusting coralline algae. Vertical/overhaging surfaces supported sponges, including *Pachymatisma johnstonia, Esperiopsis fucorum, Scypha* and *Hemimycale columella* with *Bispira* fanworms common in the many crevices. Sea hares, *Aplysia*, were particularly common here in 1999, with many mating pairs and egg strings seen.

The exposed clay was extensively bored by piddocks and the sandy areas had numerous burrowing anemones, *Cerianthus lloydii* and sandmason worms, *Lanice conchilega*.

Fish life included bass, corkwing, goldsinny ballan and rock cook wrasse, pipefish, tompot blennies, dragonets, black gobies and two-spot gobies.

Observations/Features of Interest:

Several records remark on pieces of coal on the seabed. This has been attributed to a nearby shipwreck, but some of the pieces can be seen eroding out of the clay. A sample of this was brought ashore and became brittle and crumbly as it dried out.

A bed of degraded amphipod tubes was reported from dive 99/08.

The black-faced blenny, *Trypterygion delaisi*, has been reported here and black bream nests are a regular feature alongside the reef in the spring. (pers.comm. Mike Markey).

Dictyota dichotoma and red seaweeds

Scoured bedrock (sandstone?) with piddock holes

Recorded biotopes

Sublittoral sediment

Infralittoral mixed sediment

Circalittoral mixed sediment

Cerianthus lloydii and other burrowing anemones in circalittoral muddy mixed sediment

Kelp and seaweed communities on sublittoral sediment

Laminaria saccharina and red seaweeds on infralittoral sediments

Laminaria saccharina and robust red algae on infralittoral gravel and pebble

Infralittoral sandy mud

Ampelisca spp., Photis longicaudata and other tube-building amphipods and polychaetes in infralittoral sandy mud

Infralittoral coarse sediment

Circalittoral coarse sediment

Infralittoral rock (and other hard substrata)

Kelp and red seaweeds (moderate energy infralittoral rock)

Laminaria hyperborea and foliose red seaweeds on moderately exposed infralittoral rock

Laminaria hyperborea park and foliose red seaweeds on moderately exposed lower infralittoral rock

Dense foliose red seaweeds on silty moderately exposed infralittoral rock

Sediment-affected or disturbed kelp and seaweed communities

Saccorhiza polyschides and other opportunistic kelps on disturbed sublittoral fringe rock

Circalittoral rock (and other hard substrata)

Soft rock communities

Piddocks with a sparse associated fauna in sublittoral very soft chalk or clay

Most frequently recorded species

Number of Seasearch dives	12
Number of species/groups recorded	96

Species	Common name	No. of records	Abundance range
Crenilabrus melops	Corkwing	6	R to C
Anemonia viridis	Snakelocks anemone	6	R to O
Rhodophycota	Red seaweeds	6	P to A
Ctenolabrus rupestris	Goldsinny	5	R to C
Saccorhiza polyschides	Furbellows	5	R to F
Labrus bergylta	Ballan wrasse	4	R to F
Callionymus lyra	Common dragonet	4	R to O
Laminaria digitata	Paddle weed / oar weed / tangle/ kelp	4	O to A
Gobiusculus flavescens	Two-spotted goby	4	R to C
Aplysia punctata	Red sea hare	4	R to A
Bispira volutacornis	Double crowned fan worm	4	R to C
Pachymatisma johnstonia	Elephant's ear sponge	3	O
Paguridae	Hermit crab family	3	R to F
Maja squinado	Spiny spider crab	3	P to O
Calliblepharis ciliata	Red fringe weed	3	O to F
Trochidae	Topshells	3	R to O
Delesseria sanguinea	Sea beech	3	O to F
Lanice conchilega	Sandmason worm	3	O to F

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Aplysia punctata	Red sea hare	R to A	F	4
Rhodophycota	Red seaweeds	P to A	O	6
Phaeophyceae	Brown seaweeds	C to A	C	1
Laminaria digitata	Paddle weed / oar weed / tangle/ kelp	O to A	F	4
Max abundance = C				
Bispira volutacornis	Double crowned fan worm	R to C	O	4
Pholadidae	Piddocks	P to C	O	2
Membranipora membranacea	Kelp sea mat	C	C	1
Crenilabrus melops	Corkwing	R to C	O	6
Ctenolabrus rupestris	Goldsinny	R to C	O	5
Gobiusculus flavescens	Two-spotted goby	R to C	O	4
Phyllophora crispa	A red seaweed	C	C	1
Plocamium cartilagineum	Red comb weed / cockscombe / scarlet hair flag	O to C	F	2
Drachiella	A red seaweed	C	C	1
Hypoglossum hypoglossoides	A red seaweed	C	C	1
Laminariaceae	Kelps	C	C	1
Max abundance = F				
Porifera	Sponges	F	F	1
Scypha	A sponge	F	F	1
Hymeniacidon sanguinea	A sponge	F	F	1
Hydrozoa	Hydroids/ sea firs	F	F	1
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	F	F	1
Lanice conchilega	Sandmason worm	O to F	O	3
Paguridae	Hermit crab family	R to F	O	3
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	R to F	O	2
Pholas dactylus	Common piddock	P to F	R	1
Labrus bergylta	Ballan wrasse	R to F	O	4
Corallinaceae	Pink coralline algae	O to F	O	2
Calliblepharis ciliata	Red fringe weed	O to F	O	3
Delesseria sanguinea	Sea beech	O to F	O	3
Drachiella spectabilis	Rainbow weed/irredescent drachiella	F	F	1
Saccorhiza polyschides	Furbellows	R to F	O	5
Sargassum muticum	Japweed / wireweed	O to F	O	1

Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Algae/Plants				
Sargassum muticum	Japweed / wireweed	F to O	O	Introduced
Phymatolithon calcareum	Maerl	P	P	HAP
Chordata				
Ctenolabrus rupestris	Goldsinny	C to R	O	Climate
Centrolabrus exoletus	Rock cook	O	O	Climate
Cnidaria (Corals, anemones, hydroids)				
Anemonia viridis	Snakelocks anemone	O to R	R	Climate
Crustacea				
Maja squinado	Spiny spider crab	O to P	R	Climate
Mollusca				
Ostrea edulis	European oyster	R	R	SOCC BAP

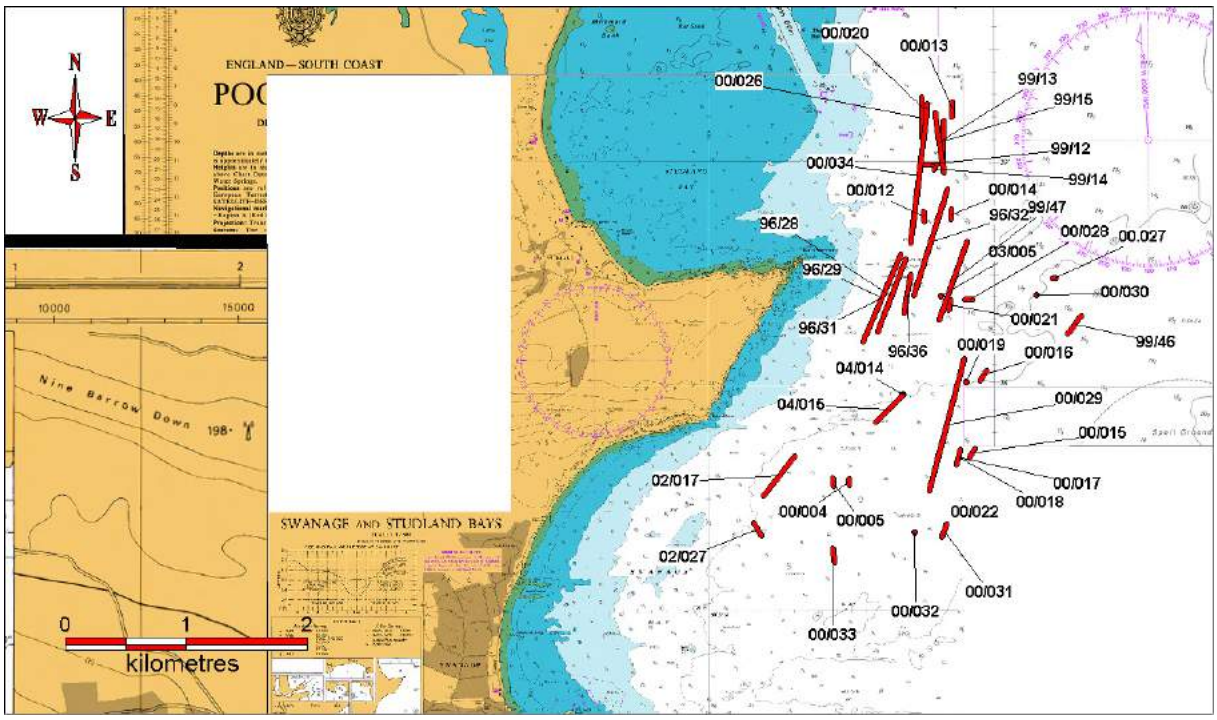
Calliblepharis ciliata and other red seaweeds

Saccorhiza polyschides growing on sand disturbed rock

Handfast Point maerl bed

Number of Seasearch dives 35

Number of species/groups recorded 187



Physical environment:

Depth range 13-20m

An area of flat seabed of shelly gravel, small stones and dead maerl with up to 10% of live maerl on the surface. Most sites described as silty. This area has been the subject of much study by volunteer divers as part of a series of surveys carried out by Dorset Wildlife Trust, Southampton University and the Marine Conservation Society - hence the large number of dives recorded here.

Habitat/Community types:

In other parts of the UK, maerl beds contain a much greater proportion of living maerl and have a rich associated fauna. It is not known whether the Handfast Point site is a relict maerl bed (much of the underlying sediment is dead/fossil maerl, perhaps suggesting a more productive past) or whether it has in any way been affected by human activities.

The slipper limpet, *Crepidula fornicata*, was widespread and common, forming dense beds in places. Burrowing anemone, *Cerianthus lloydii* and the dahlia anemone, *Urticina* were common and the imperial anemone, *Aureliania* was recorded at three sites. Hermit crabs were common and small clingfish were recorded guarding eggs in empty shells. Dogfish, *Scyliorhinus canicula*, turned up on several dives and undulate rays were sighted on four occasions. The cuttlefish, *Sepia*, was spotted on several dives and cuttlefish eggs were seen attached to an abandoned lobster pot.

Observations/Features of Interest:

The species of maerl involved has been identified as *Phymatolithon calcareum*.

Dives 02/027 and 00/005 (both at the southern end of the maerl bed) reported the presence of *Ampelisca* mats. A patch of *Ampelisca* was also reported from 00/034.

Recorded biotopes

Sublittoral sediment

Infralittoral mixed sediment

Crepidula fornicata with ascidians and anenomes on infralittoral coarse mixed sediment

Circalittoral mixed sediment

Cerianthus lloydii and other burrowing anemones in circalittoral muddy mixed sediment

Cerianthus lloydii with *Nemertesia spp.* and other hydroids in circalittoral muddy mixed sediment

Kelp and seaweed communities on sublittoral sediment

Laminaria saccharina and red seaweeds on infralittoral sediments

Red seaweeds and kelps on tide-swept mobile infralittoral cobbles and pebbles

Infralittoral sandy mud

Ampelisca spp., Photis longicaudata and other tube-building amphipods and polychaetes in infralittoral sandy mud

Circalittoral coarse sediment

Neopentadactyla mixta in circalittoral shell gravel or coarse sand

Circalittoral rock (and other hard substrata)

Most frequently recorded species

Number of Seasearch dives	35
Number of species/groups recorded	187

Species	Common name	No. of records	Abundance range
Crepidula fornicata	Slipper limpet	26	P to A
Paguridae	Hermit crab family	26	P to A
Urticina	Dahlia anemone	22	P to F
Phymatolithon calcareum	Maerl	22	P to A
Aequipecten opercularis	Queen scallop or queenie	18	P to C
Pentapora foliacea	Ross coral/potato crisp bryozoan	18	P to O
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	16	P to F
Flustra foliacea	Hornwrack / leafy bryozoan	15	P to C
Styela clava	Stalked seasquirt / leathery seasquirt	14	P to C
Calliblepharis ciliata	Red fringe weed	13	P to A
Maja squinado	Spiny spider crab	12	P to C
Alcyonium digitatum	Dead man's fingers soft coral	11	P to O
Scyliorhinus canicula	Lesser spotted dogfish / cat shark	10	P to O
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	10	P to C
Buccinum undatum	Common whelk / bucci / edible whelk	10	P to O
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	10	P to F
Hydrallmania falcata	Spiralled sea fir / helter-skelter hydroid	9	P to F
Anemonia viridis	Snakelocks anemone	9	P to O
Lanice conchilega	Sandmason worm	9	P to C
Clavelina lepadiformis	Lightbulb seasquirt	9	P to O
Halecium halecinum	Herringbone hydroid	8	P to F
Nemertesia ramosa	Branched antenna hydroid	8	P to F
Janolus cristatus	Crystal sea slug	8	P to R
Rhodophycota	Red seaweeds	8	P to C
Hinia reticulata	Netted dogwhelk	8	P to C
Callionymus lyra	Common dragonet	8	P to O
Neopentadactyla mixta	Gravel sea cucumber	7	P to F
Hydrozoa	Hydroids/ sea firs	7	P to A

Undulate ray Photo Mike Markey

Queen scallop Photo Mike Markey

Species sorted by maximum recorded abundance

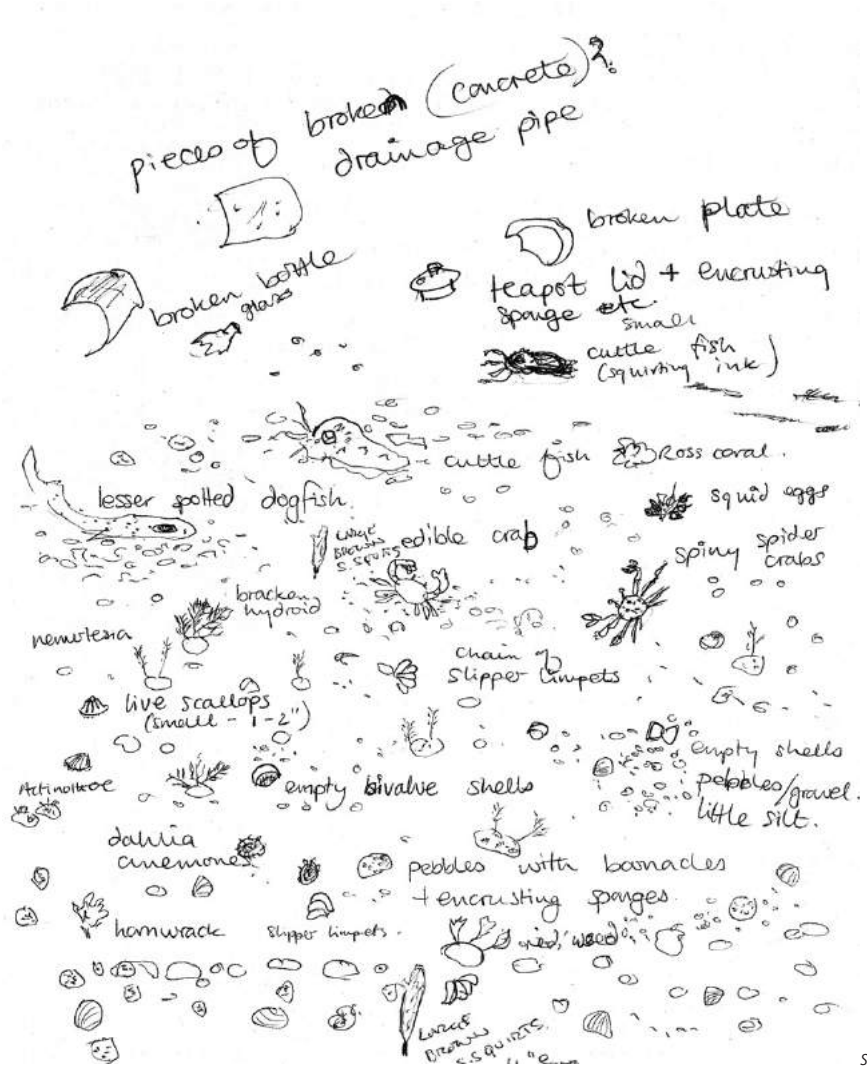
Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Hydrozoa	Hydroids/ sea firs	P to A	0	7
Ampelisca	Tube building amphipods	P to A	0	3
Paguridae	Hermit crab family	P to A	0	26
Crepidula fornicata	Slipper limpet	P to A	0	26
Aplysia punctata	Red sea hare	P to A	0	2
Phymatolithon calcareum	Maerl	P to A	0	22
Calliblepharis ciliata	Red fringe weed	P to A	0	13
Max abundance = C				
Obelia longissima	A hydroid	P to C	0	3
Cerianthus lloydii	Double crowned burrowing anemone/tube anemone	R to C	0	6
Sabellaria spinulosa	Ross worm	P to C	0	4
Lanice conchilega	Sandmason worm	P to C	0	9
Pomatoceros lamarcki	Tri-keeled tube worm	P to C	0	3
Maja squinado	Spiny spider crab	P to C	0	12
Inachus	A spider crab	P to C	0	3
Inachus phalangium	Leach's spider crab	P to C	0	4
Macropodia	A long legged spider crab	P to C	0	6
Gibbula cineraria	Grey top shell	P to C	0	4
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	P to C	0	10
Hinia reticulata	Netted dogwhelk	P to C	0	8
Pectinidae	Scallop family	C	C	1
Aequipecten opercularis	Queen scallop or queenie	P to C	0	18
Flustra foliacea	Hornwrack / leafy bryozoan	P to C	0	15
Ciona intestinalis	Yellow rimmed seasquirt	C	C	2
Styela clava	Stalked seasquirt / leathery seasquirt	P to C	0	14
Trisopterus luscus	Bib/ pouting	R to C	0	2
Gobiidae	Goby family	P to C	0	4
Rhodophycota	Red seaweeds	P to C	0	8
Corallinaceae	Pink coralline algae	C	C	1
Phaeophyceae	Brown seaweeds	C	C	1

Phymatolithon calcareum on seabed of shell/dead maerl gravel

Red gurnard, Aspitrigla cuculus, on pebbles with maerl

Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Algae/Plants				
Phymatolithon calcareum	Maerl	A to P	O	HAP
Annelida (Worms)				
Sabellaria spinulosa	Ross worm	C to P	O	HAP
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	O to P	R	Climate
Cnidaria (Corals, anemones, hydroids)				
Anemonia viridis	Snakelocks anemone	O to P	R	Climate
Crustacea				
Maja squinado	Spiny spider crab	C to P	O	Climate
Mollusca				
Ostrea edulis	European oyster	O to P	R	SOCC BAP
Crepidula fornicata	Slipper limpet	A to P	O	Introduced
Tunicata (sea squirts)				
Styela clava	Stalked seasquirt / leathery seasquirt	C to P	O	Introduced

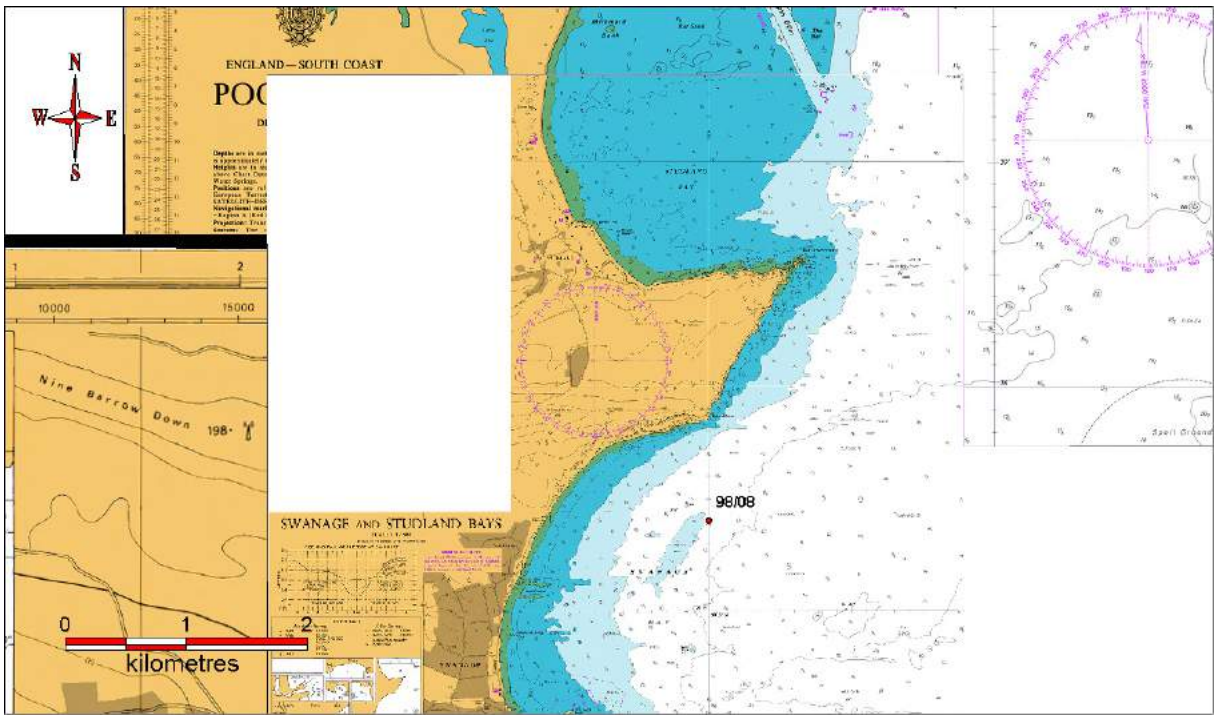


Sketch from dive 99/47

Potters Shoal

Number of Seasearch dives 1

Number of species/groups recorded 31



Physical environment:

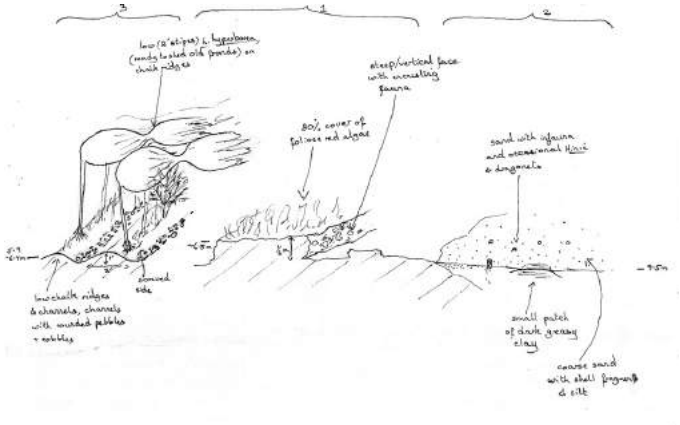
Depth range 6-10m

A patch of near-horizontal chalk bedrock forming low, parallel ridges and troughs. Sand patches overlying the bedrock in places and some small patches of a dark, greasy clay.

Habitat/Community types:

Red algae or kelp/*Halidrys* on the horizontal surfaces with encrusting sponges (*Dysidea fragilis, Hemimycale columella, ?Esperiopsis fucorum*), sea squirts (*Aplidium punctum, Morchellium argus, Clavelina lepadiformis* and an unidentified colonial encrusting ascidian), hydroids (*Halecium halecinum, Aglaophenia* sp) and bryozoans (*Bugula*) on the vertical surfaces. Active piddock boring (*Pholas dactylus*) in the chalk.

Sand patches had numerous burrowing anemones, *Cerianthus lloydii*, and occasional large *Lanice conchilega* plus several vertical holes, approx. 1cm in diameter with a clay-like lining. Egg-ribbons of the necklace shell, *Polinices*, occasionally found on the sand.



Sketch from dive 98/08

Recorded biotopes

Sublittoral sediment

Circalittoral mixed sediment

Cerianthus lloydii and other burrowing anemones in circalittoral muddy mixed sediment

Infralittoral rock (and other hard substrata)

Kelp and red seaweeds (moderate energy infralittoral rock)

Laminaria hyperborea and foliose red seaweeds on moderately exposed infralittoral rock

Laminaria hyperborea park and foliose red seaweeds on moderately exposed lower infralittoral rock

Dense foliose red seaweeds on silty moderately exposed infralittoral rock

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Rhodophycota	Red seaweeds	A	A	1
Laminaria hyperborea	Cuvie / northern kelp / forest kelp	A	A	1
Max abundance = C				
Hemimycale columella	Pink/orange crater sponge	C	C	1
Dysidea fragilis	Goose bump/hedgehog sponge	C	C	1
Anemonia viridis	Snakelocks anemone	C	C	1
Gibbula cineraria	Grey top shell	C	C	1
Max abundance = F				
Cerianthus lloydii	Double crowned burrowing anemone/tube anemone	F	F	1
Bispira volutacornis	Double crowned fan worm	F	F	1
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	F	F	1
Bugula turbinata	Bottle brush bryozoan	F	F	1
Ascidia	Sea squirt family	F	F	1
Max abundance = O				
Aglaophenia	A hydroid	O	O	1
Lanice conchilega	Sandmason worm	O	O	1
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	O	O	1
Hinia reticulata	Netted dogwhelk	O	O	1
Pholas dactylus	Common piddock	O	O	1
Callionymus lyra	Common dragonet	O	O	1
Gobiusculus flavescens	Two-spotted goby	O	O	1
Halidrys siliquosa	Pod weed / sea oak	O	O	1

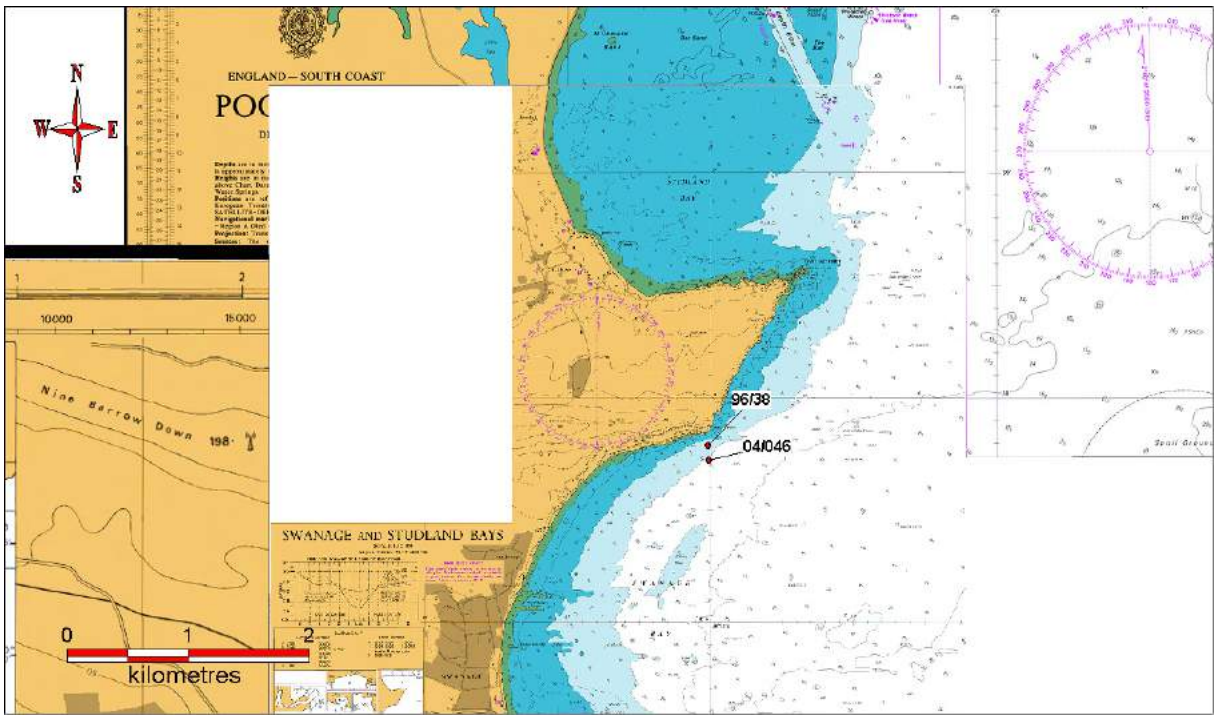
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Cnidaria (Corals, anemones, hydroids)				
Anemonia viridis	Snakelocks anemone	C	C	Climate
Mollusca				
Crepidula fornicata	Slipper limpet	R	R	Introduced

South of Ballard Point

Number of Seasearch dives 2

Number of species/groups recorded 42



Physical environment:

Depth range 9-10m

Sandy seabed with small, flat rock and larger boulders.

Habitat/Community types:

The boulders are topped with red and brown algae including *Calliblepharis, Halarachnion* and *Dictyopteris* along with some deadmens fingers, the hydroid, *Halecium* and the sponge, *Esperiopsis fucorum*. On the sides of the boulders were bryozoans, including *Bugula plumosa, B. turbinata* and *Armathia lendigera* along with didemnid sea-squirts and *Morchellium argus*.

Anemones noted in the sand and some shells had a cover of brown algae - *Sporochnus* and *Arthrocladia villosa*.

The wreck attracted large shoals of bib - *Trisopterus luscus.*

Observations/Features of Interest:

Dive 04/046 is the wreck of the *Fleur-de-Lys* - a small fishing boat.

Shoal of bib on wreck of Fleur-de-Lys

Recorded biotopes

Sublittoral sediment

Infralittoral mixed sediment

Infralittoral coarse sediment

Infralittoral rock (and other hard substrata)

Kelp and red seaweeds (moderate energy infralittoral rock)

Dense foliose red seaweeds on silty moderately exposed infralittoral rock

Circalittoral rock (and other hard substrata)

Most frequently recorded species

Number of Seasearch dives	2
Number of species/groups recorded	42

Species	Common name	No. of records	Abundance range
Callionymus lyra	Common dragonet	2	P to O
Cancer pagurus	Edible crab / brown crab /great crab	2	R to O
Sepia officinalis	Common cuttlefish	2	R
Anemonia viridis	Snakelocks anemone	2	P to O

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = C				
Bowerbankia	A bryozoan	C	C	1
Trisopterus luscus	Bib/ pouting	C	C	1
Max abundance = O				
Anemonia viridis	Snakelocks anemone	P to O	R	2
Maja squinado	Spiny spider crab	O	O	1
Cancer pagurus	Edible crab / brown crab /great crab	R to O	R	2
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	O	O	1
Crenilabrus melops	Corkwing	O	O	1
Ctenolabrus rupestris	Goldsinny	O	O	1
Labrus bergylta	Ballan wrasse	O	O	1
Callionymus lyra	Common dragonet	P to O	R	2
Rhodophycota	Red seaweeds	O	O	1
Sporochnus	A brown seaweed	O	O	1
Arthrocladia villosa	A brown seaweed	O	O	1

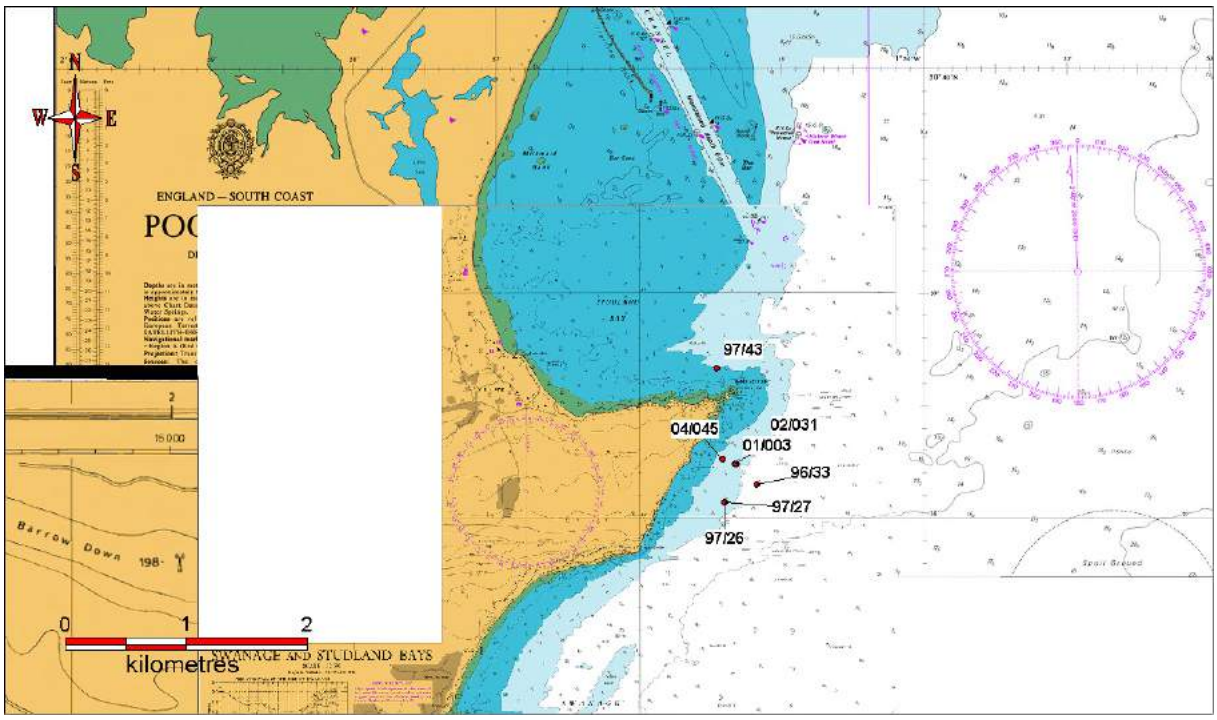
Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Chordata				
Ctenolabrus rupestris	Goldsinny	O	O	Climate
Cnidaria (Corals, anemones, hydroids)				
Anemonia viridis	Snakelocks anemone	O to P	R	Climate
Crustacea				
Maja squinado	Spiny spider crab	O	O	Climate
Mollusca				
Ostrea edulis	European oyster	R	R	SOCC BAP

Ballard Cliffs

Number of Seasearch dives 7

Number of species/groups recorded 114



Physical environment:

Depth range 4-11m

An area of horizontal chalk bedrock, exposed in some places but largely covered in a layer of stony gravel.

Habitat/Community types:

Exposed chalk was covered in red algae (*Calliblepharis ciliata* dominant), *Saccorhiza polyschides* and *Dictyota dichotoma*. Overhangs provided shelter for a variety of fauna - this included the sponges *Dysidea fragilis, Esperiopsis fucorum, Dercitus bucklandii* and *Hemimycale columella* , the fanworm *Bispira volutacornis*, deadmens fingers, crabs and squat lobsters.

The gravel covered areas supported anemones - *Cereus pedunculatus, Urticina felina, Sagartia* and *Cerianthus lloydii*.

Observations/Features of Interest:

Site 97/27 was dived in May at which time there were a large number of black bream (*Spondyliosoma cantharus*) nests on the seabed. These are areas up to 2m in diameter where the seabed has been cleared of gravel down to bare bedrock. The eggs are laid in a single layer on the bare chalk. Perhaps not surprisingly, angling was noted as popular here.

One diver reported a number of recently overturned rock slabs (with algae still alive on underside), suggesting anchor damage by angling boats.

Recorded biotopes

Sublittoral sediment

Infralittoral mixed sediment

Crepidula fornicata with ascidians and anenomes on infralittoral coarse mixed sediment

Circalittoral mixed sediment

Cerianthus lloydii and other burrowing anemones in circalittoral muddy mixed sediment

Cerianthus lloydii with *Nemertesia spp*. and other hydroids in circalittoral muddy mixed sediment

Circalittoral coarse sediment

Neopentadactyla mixta in circalittoral shell gravel or coarse sand

Infralittoral rock (and other hard substrata)

Kelp and red seaweeds (moderate energy infralittoral rock)

Laminaria hyperborea on tide-swept, infralittoral rock

Laminaria hyperborea park with hydroids, bryozoans and sponges on tide-swept lower infralittoral rock

Dense foliose red seaweeds on silty moderately exposed infralittoral rock

Kelp with cushion fauna and/or foliose red seaweeds

Foliose red seaweeds on exposed lower infralittoral rock

Circalittoral rock (and other hard substrata)

Soft rock communities

Piddocks with a sparse associated fauna in sublittoral very soft chalk or clay

Mixed faunal turf communities

Sponges and anemones on vertical circalittoral bedrock

Most frequently recorded species

Number of Seasearch dives	7
Number of species/groups recorded	114

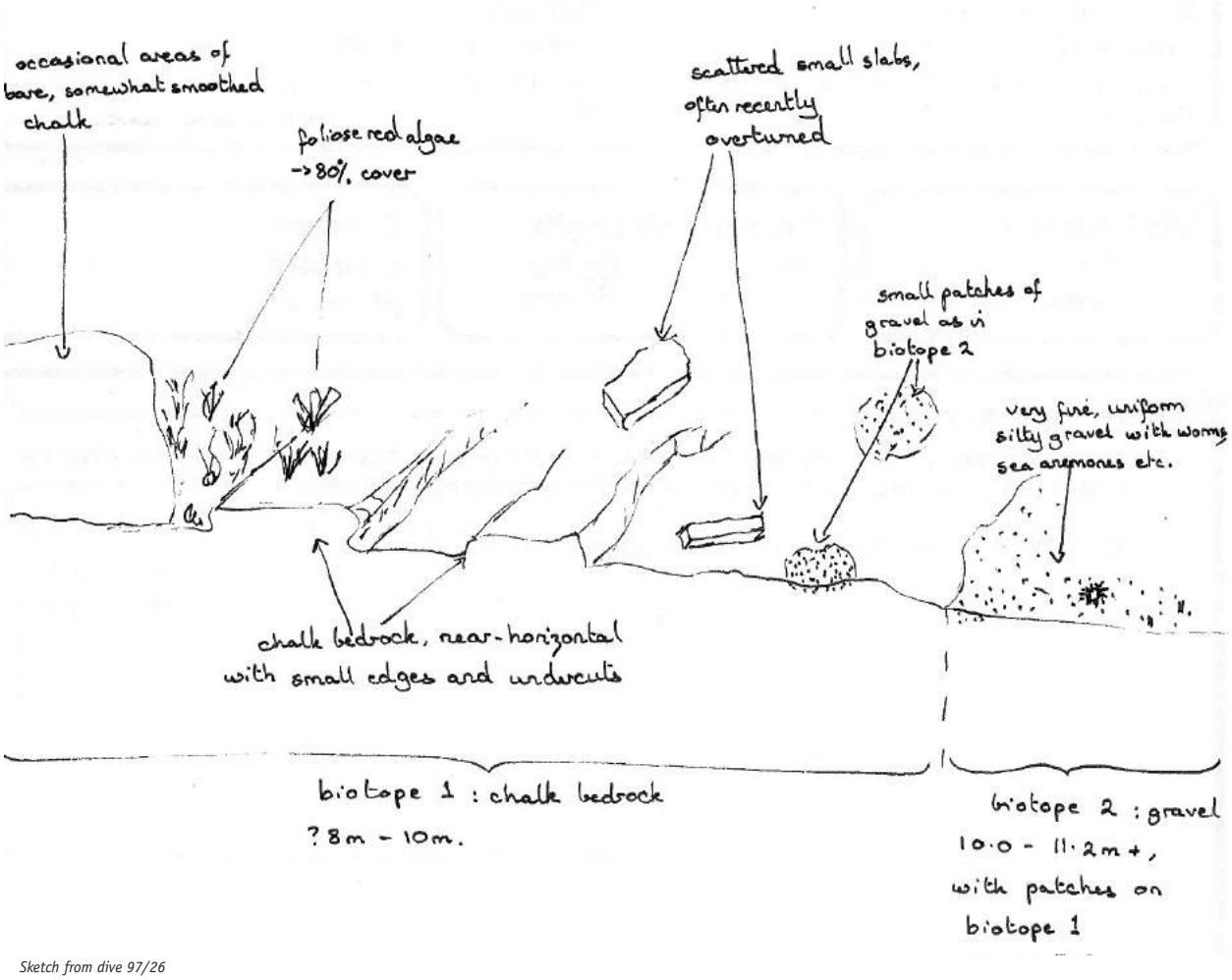
Species	Common name	No. of records	Abundance range
Anemonia viridis	Snakelocks anemone	6	P to F
Cancer pagurus	Edible crab / brown crab /great crab	6	P to F
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	5	P to R
Urticina	Dahlia anemone	5	P to O
Dysidea fragilis	Goose bump/hedgehog sponge	4	P to O
Bispira volutacornis	Double crowned fan worm	4	P to F
Cereus pedunculatus	Daisy anemone	4	P to F
Labrus bergylta	Ballan wrasse	4	P to R
Paguridae	Hermit crab family	3	P to O
Ostrea edulis	European oyster	3	P to R
Morchellium argus	Four-spotted colonial seasquirt	3	P
Hinia reticulata	Netted dogwhelk	3	P to O
Hemimycale columella	Pink/orange crater sponge	3	P to F
Plocamium cartilagineum	Red comb weed / cockscombe / scarlet hair flag	3	P
Esperiopsis fucorum	Shredded carrot sponge	3	P
Homarus gammarus	Common lobster	3	P
Corallinaceae	Pink coralline algae	3	P to F
Clavelina lepadiformis	Lightbulb seasquirt	3	P to R
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	3	P to R
Aplidium punctum	Single spotted colonial seasquirt	3	P
Alcyonium digitatum	Dead man's fingers soft coral	3	P
Gobiusculus flavescens	Two-spotted goby	3	P to O
Porifera	Sponges	3	P to C

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Crepidula fornicata	Slipper limpet	P to A	O	2
Max abundance = C				
Porifera	Sponges	P to C	O	3
Mytilus edulis	Blue / edible / common mussel	C	C	1
Flustra foliacea	Hornwrack / leafy bryozoan	C	C	1
Rhodophycota	Red seaweeds	O to C	F	2

Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Algae/Plants				
Phymatolithon calcareum	Maerl	P	P	HAP
Bryozoa				
Pentapora foliacea	Ross coral/potato crisp bryozoan	R to P	P	Climate
Chordata				
Ctenolabrus rupestris	Goldsinny	R	R	Climate
Cnidaria (Corals, anemones, hydroids)				
Anemonia viridis	Snakelocks anemone	F to P	R	Climate
Crustacea				
Maja squinado	Spiny spider crab	P	P	Climate
Mollusca				
Ostrea edulis	European oyster	R to P	P	SOCC BAP
Crepidula fornicata	Slipper limpet	A to P	O	Introduced
Tunicata (sea squirts)				
Styela clava	Stalked seasquirt / leathery seasquirt	P	P	Introduced

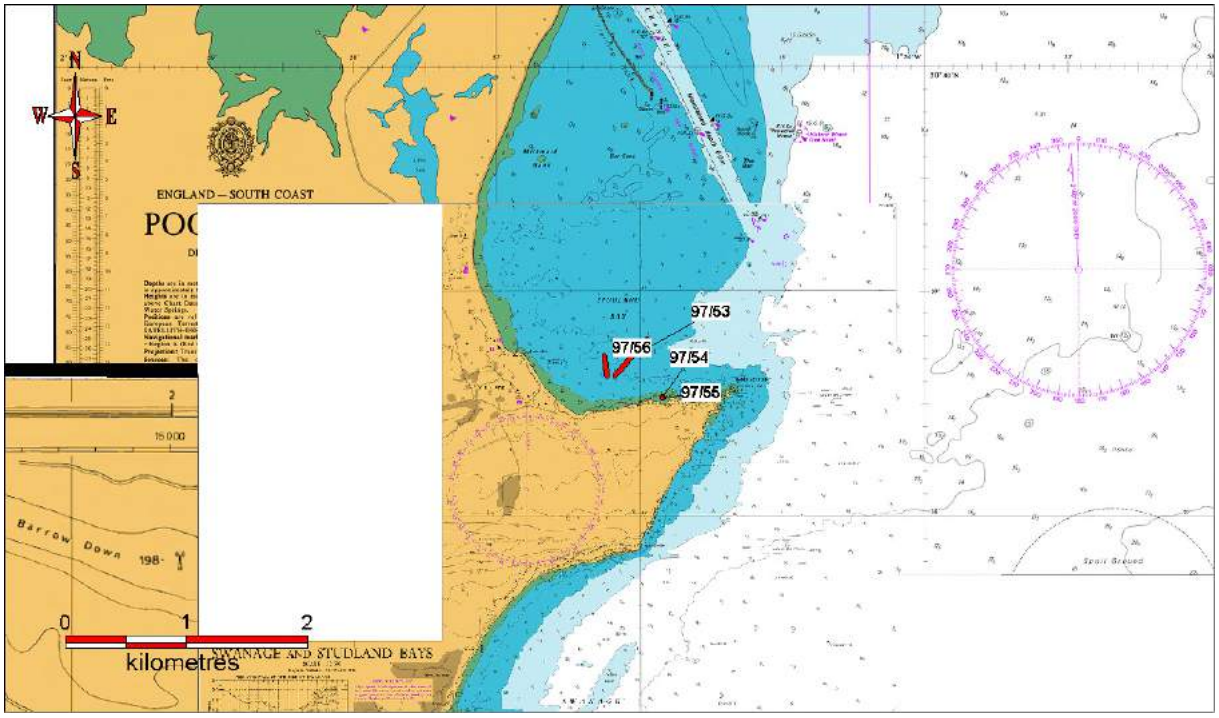


Sketch from dive 97/26

Studland

Number of Seasearch dives 4

Number of species/groups recorded 19



Physical environment:

Depth range 3-6m

Studland Bay is sheltered from the prevailing south-westerly winds. In the shallow water close to the shore the seabed is flat sand, muddy in places.

Habitat/Community types:

Eelgrass, *Zostera marina* was recorded as frequent to abundant at most of these sites There are anecdotal records of seahorses associated with this area, though none has been seen during this survey. Two divers reported pipefish - not recorded to species, though the broad-snouted pipefish, *Syngnathus typhle*, has been photographed here.

There are several references to large numbers of anemones, both burrowing and attached to the seagrass, though these are not identified.

At least one dive reported patches of abundant slipper limpet, *Crepidula fornicata*, and occasional native oyster.

Dive 97/54 also covered an area of scattered rocky outcrops with seaweed cover.

Hermit crabs were recorded as abundant here.

Observations/Features of Interest:

The eelgrass beds are fairly well known and have been the subject of many studies. This is a rare habitat in the UK and there are concerns over the effects of high levels of recreational boating in the area - both from dragging anchors and direct damage from propellers in the shallow water.

Recorded biotopes

Sublittoral sediment

Infralittoral fine sand

Infralittoral mixed sediment

Crepidula fornicata with ascidians and anenomes on infralittoral coarse mixed sediment

Sublittoral seagrass beds

Zostera marina/angustifolia beds on lower shore or infralittoral clean or muddy sand

Infralittoral rock (and other hard substrata)

Fifteeen spined stickleback among Zostera

Most frequently recorded species

Number of Seasearch dives	4
Number of species/groups recorded	19

Species	Common name	No. of records	Abundance range
Zostera marina	Sea grass / common eel grass	4	R to A
Suberites	A sponge	3	P to O
Crepidula fornicata	Slipper limpet	3	C to A
Labridae	Wrasses	3	P to C
Ostrea edulis	European oyster	2	P
Syngnathidae	Pipefish family	2	R
Cancer pagurus	Edible crab / brown crab /great crab	2	O
Rhodophycota	Red seaweeds	2	F to C
Actiniaria	Sea anemone	2	C to A
Maja squinado	Spiny spider crab	2	P
Buccinidae	Whelk family	1	O
Clavelina lepadiformis	Lightbulb seasquirt	1	R
Laminaria	Kelp	1	R
Pagurus bernhardus	Large/common/soldier hermit crab	1	A
Platichthys flesus	Flounder	1	P
Pleuronectes platessa	Plaice	1	R
Sepiidae	Cuttlefish family	1	R
Solenidae	Razor shells	1	C
Nudibranchia	Nudibranch	1	R

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Actiniaria		C to A	C	2
Pagurus bernhardus	Large/common/soldier hermit crab	A	A	1
Crepidula fornicata	Slipper limpet	C to A	C	3
Zostera marina	Sea grass / common eel grass	R to A	F	4
Max abundance = C				
Solenidae	Razor shells	C	C	1
Labridae	Wrasses	P to C	O	3
Rhodophycota	Red seaweeds	F to C	F	2
Max abundance = O				
Suberites	A sponge	P to O	R	3
Cancer pagurus	Edible crab / brown crab /great crab	O	O	2
Buccinidae	Whelks	O	O	1

Species of interest

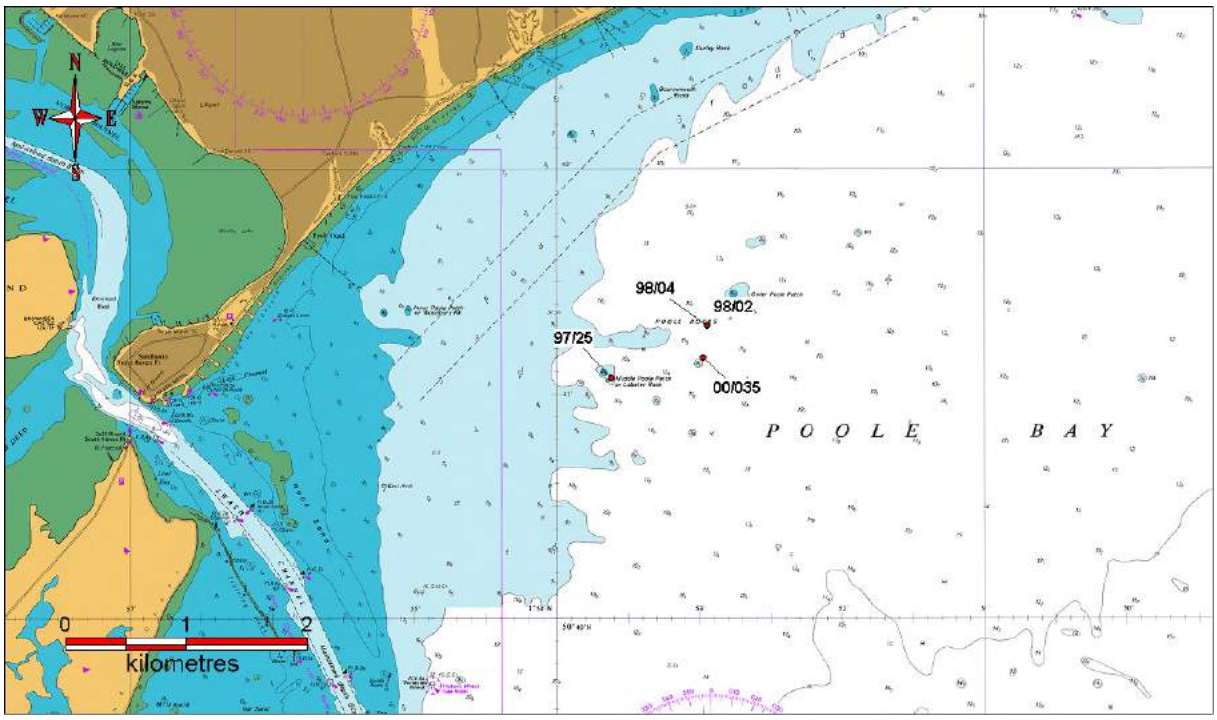
Species	Common name	Abundance range	Average abundance	Importance
Algae/Plants				
Zostera marina	Sea grass / common eel grass	A to R	F	HAP
Chordata				
Pleuronectes platessa	Plaice	R	R	SOCC BAP
Crustacea				
Maja squinado	Spiny spider crab	P	P	Climate
Mollusca				
Ostrea edulis	European oyster	P	P	SOCC BAP
Crepidula fornicata	Slipper limpet	A to C	C	Introduced

Broad-snouted pipefish, Syngnathus typhle
Photo - S Trewhella

Outer Poole Patch/Lobster Rock

Number of Seasearch dives 4

Number of species/groups recorded 68



Physical environment:

Depth range 6-15m

Heavily silted low boulders (Outer Poole patch) and angular large boulders/bedrock (Lobster Rock) surrounded by sandy/muddy seabed. Lots of holes and crevices among the boulders.

Habitat/Community types:

Boulders covered with rich hydroid/bryozoan turf (mostly antenna hydroid, *Nemertesia antennina* and hornwrack, *Flustra foliacea*) with the shredded carrot sponge, *Esperiopsis fucorum*, with the fanworm, *Bispira volutacornis*. The oyster drill, or tingle, *Ocenebra erinacea*, along with its egg capsules, was common on vertical surfaces. Black gobies, *Gobius niger*, were recorded on the sediment near the reefs. Shallower than 8m (Lobster Rock) the rock was covered in algal turf - the absence of kelp reflecting the turbid conditions here. Smaller cobbles were covered in barnacles.

The nearby mud was rich in tracks and burrows with brittlestar arms protruding from the mud. The slipper limpet, *Crepidula fornicata*, was found in chains and patches near the reefs. Hermit crabs in *Ocenebra* shells were frequently covered in the sponge *Suberites ficus*. Some bivalve shells on the surface showed signs of predation by the necklace shell, *Polinices*. The sea-mouse, *Aphrodita*, was spotted here gliding along the surface of the mud and there were numerous pelican's foot shells, *Aporrhais pespelecani*.

Observations/Features of Interest:

Unusual rock formations described from Lobster Rock (dive 97/25) - with ironstone concretions forming vertical pipes (some hollow) or curtains.

The native oyster, *Ostrea edulis*, was recorded here in small numbers.

The common starfish, *Asterias rubens*, is sometimes spotted here and large bass and grey mullet congregate around the reefs when the tide is running. (pers. comm. Mike Markey)

Recorded biotopes

Sublittoral sediment

Circalittoral muddy sand

Infralittoral mixed sediment

Crepidula fornicata with ascidians and anenomes on infralittoral coarse mixed sediment

Infralittoral sandy mud

Ampelisca spp., Photis longicaudata and other tube-building amphipods and polychaetes in infralittoral sandy mud

Circalittoral sandy mud

Infralittoral rock (and other hard substrata)

Kelp and red seaweeds (moderate energy infralittoral rock)

Dense foliose red seaweeds on silty moderately exposed infralittoral rock

Circalittoral rock (and other hard substrata)

Echinoderms and crustose communities

Faunal and algal crusts on exposed to moderately wave-exposed circalittoral rock

Alcyonium digitatum with *Securiflustra securifrons* on tide-swept moderately wave-exposed circalittoral rock

Most frequently recorded species

Number of Seasearch dives	4
Number of species/groups recorded	68

Species	Common name	No. of records	Abundance range
Ctenolabrus rupestris	Goldsinny	4	F to A
Hinia reticulata	Netted dogwhelk	3	O to C
Alcyonium digitatum	Dead man's fingers soft coral	3	P to O
Bispira volutacornis	Double crowned fan worm	3	F to C
Crepidula fornicata	Slipper limpet	3	P to F
Flustra foliacea	Hornwrack / leafy bryozoan	3	O to C
Aequipecten opercularis	Queen scallop or queenie	3	R
Hemimycale columella	Pink/orange crater sponge	3	O to F
Trisopterus luscus	Bib/ pouting	3	F
Paguridae	Hermit crab family	2	R to F
Labrus mixtus	Cuckoo wrasse	2	O
Cirripedia	Barnacles	2	P to A
Gobius niger	Black goby	2	O to F
Cancer pagurus	Edible crab / brown crab /great crab	2	R
Callionymus lyra	Common dragonet	2	R to O
Labrus bergylta	Ballan wrasse	2	O
Crenilabrus melops	Corkwing	2	R to F
Cerianthus lloydii	Double crowned burrowing anemone/tube anemone	2	O to F
Dysidea fragilis	Goose bump/hedgehog sponge	2	O
Esperiopsis fucorum	Shredded carrot sponge	2	R to F
Scyliorhinus canicula	Lesser spotted dogfish / cat shark	2	R
Ostrea edulis	European oyster	2	O

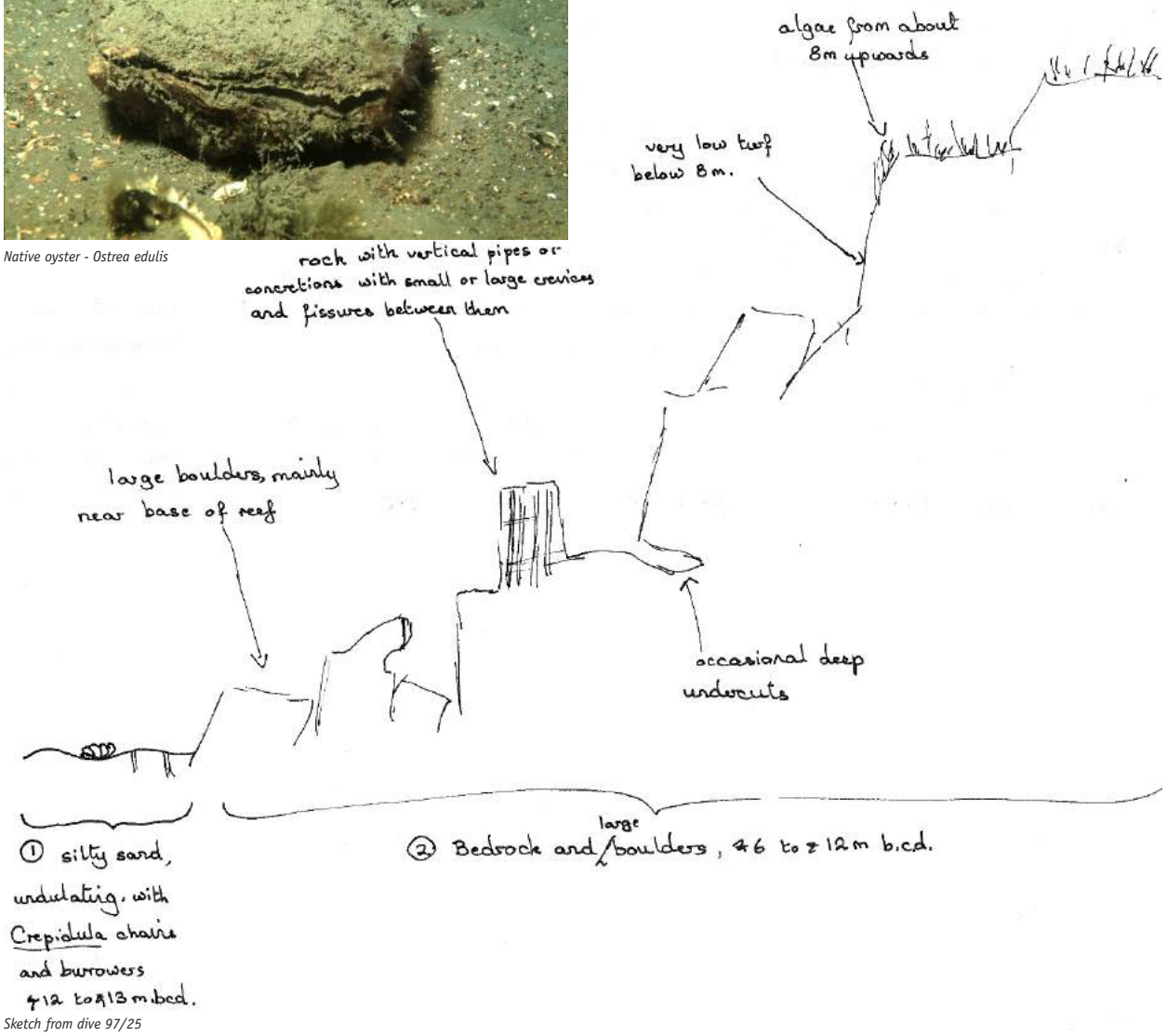
Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Cirripedia	Barnacles	P to A	O	2
Ocenebra erinacea	Sting winkle / oyster drill	A	A	1
Ctenolabrus rupestris	Goldsinny	F to A	C	4
Max abundance = C				
Hydrozoa		C	C	1
Bispira volutacornis	Double crowned fan worm	F to C	F	3
Hinia reticulata	Netted dogwhelk	O to C	F	3
Flustra foliacea	Hornwrack / leafy bryozoan	O to C	F	3
Rhodophycota	Red seaweeds	C	C	1

Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Annelida (Worms)				
Sabellaria spinulosa	Ross worm	0	0	HAP
Chordata				
Ctenolabrus rupestris	Goldsinny	A to F	C	Climate
Centrolabrus exoletus	Rock cook	R	R	Climate
Crustacea				
Maja squinado	Spiny spider crab	0	0	Climate
Mollusca				
Ostrea edulis	European oyster	0	0	SOCC BAP
Crepidula fornicata	Slipper limpet	F to P	R	Introduced
Tunicata (sea squirts)				
Styela clava	Stalked seasquirt / leathery seasquirt	0	0	Introduced

Native oyster - Ostrea edulis

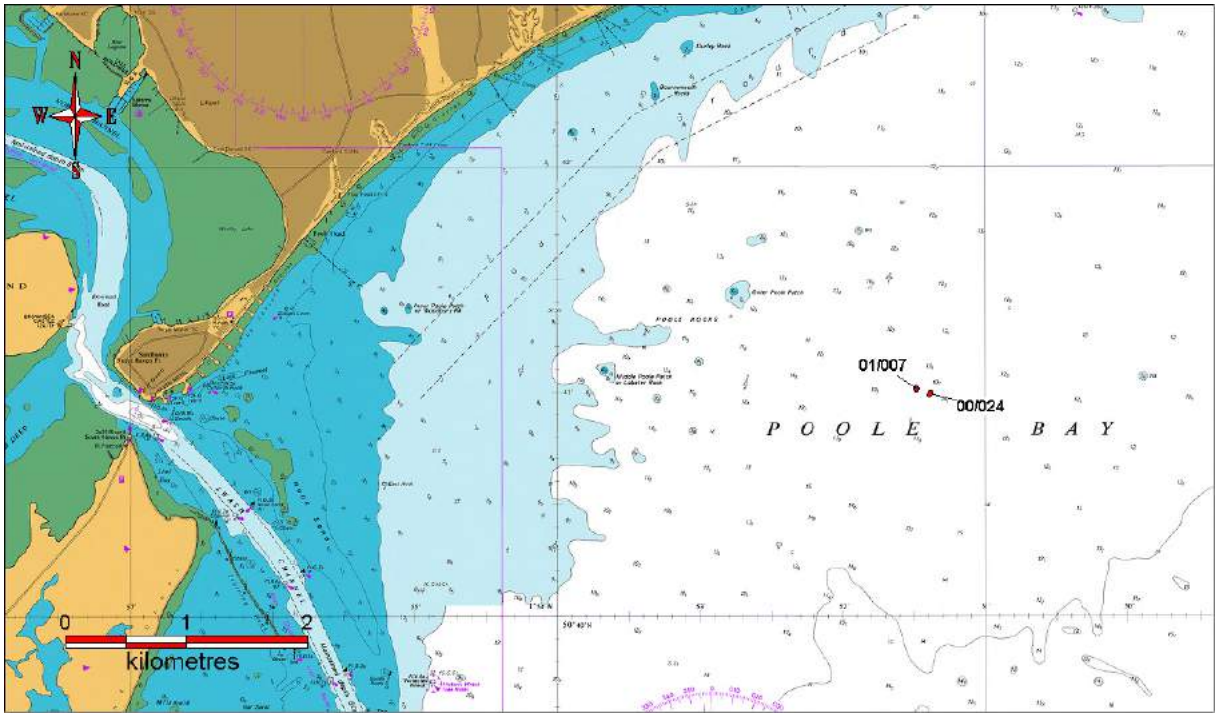


Sketch from dive 97/25

Marks reef

Number of Seasearch dives 2

Number of species/groups recorded 61



Physical environment:

Depth range 11-15m

A rough, lumpy rocky reef/boulders with fine sand at the base. Moving away from the reef, the seabed consists of soft sand/mud with some stones.

Habitat/Community types:

Rocky seabed with deadmens fingers, *Alcyonium digitatum*, and hornwrack, *Flustra foliacea* and *Chartella papyracea*, with sponges, bryozoans and some red and brown algae. Sponges include *Hemimycale columella, Dysidea fragilis, Microciona atrasanguinea, Stelligera rigida* and *Suberites*. Fan worms, *Bispira volutacornis*, were recorded as frequent.

The nudibranch, *Crimora papillata*, was found on *Chartella*.

The slipper limpet, *Crepidula fornicata*, was abundant on the sediment at the base of the reef. Fish life included large numbers of goldsinny wrasse plus pouting, gobies, corkwing and ballan wrasse, dragonets and two-spot gobies.

Observations/Features of Interest:

The pink seafan, *Eunicella verrucosa*, is reported here. At the time, this was the most easterly known record of this species, though this has now been extended to Southbourne Rough.

The corals, *Hoplangia durotrix* and *Caryophyllia inornata* have both been recorded here (pers. comm. Mike Markey).

Recorded biotopes

Sublittoral sediment

Circalittoral muddy sand

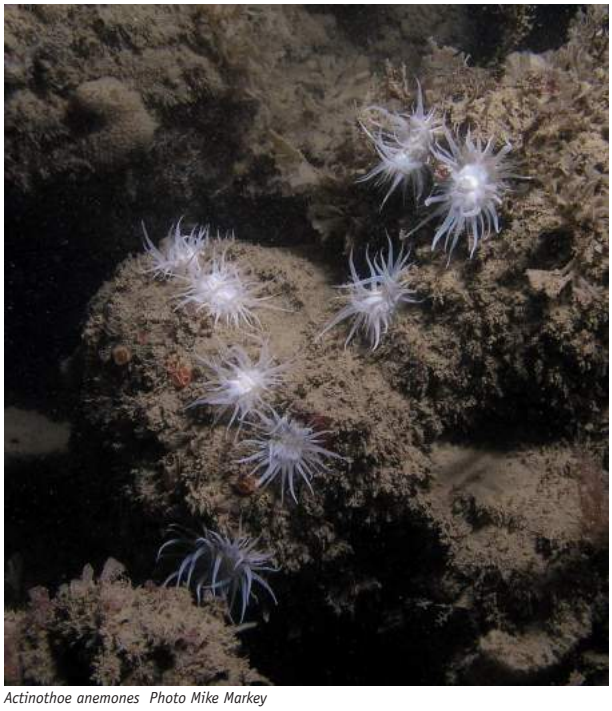
Circalittoral fine sand

Circalittoral rock (and other hard substrata)

Echinoderms and crustose communities

Faunal and algal crusts on exposed to moderately wave-exposed circalittoral rock

Alcyonium digitatum with *Securiflustra securifrons* on tide-swept moderately wave-exposed circalittoral rock



Actinothoe anemones Photo Mike Markey

Most frequently recorded species

Number of Seasearch dives	2
Number of species/groups recorded	61

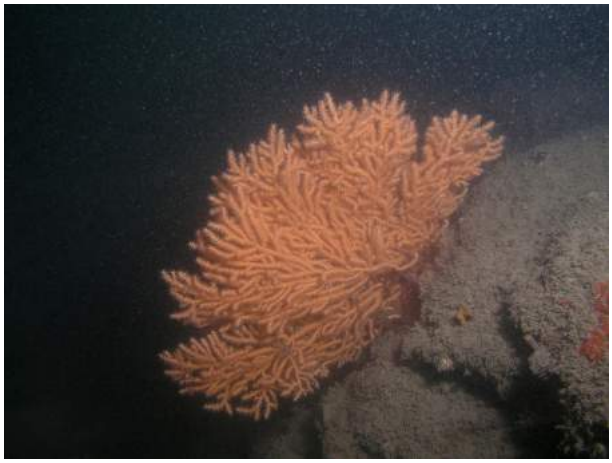
Species	Common name	No. of records	Abundance range
Ctenolabrus rupestris	Goldsinny	2	O to C
Hemimycale columella	Pink/orange crater sponge	2	O
Bispira volutacornis	Double crowned fan worm	2	F
Crepidula fornicata	Slipper limpet	2	R to A
Parablennius gattorugine	Tompot blenny	2	R
Alcyonium digitatum	Dead man's fingers soft coral	2	O to A
Flustra foliacea	Hornwrack / leafy bryozoan	2	R to C

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Alcyonium digitatum	Dead man's fingers soft coral	O to A	F	2
Crepidula fornicata	Slipper limpet	R to A	F	2
Max abundance = C				
Bowerbankia citrina	A bryozoan	C	C	1
Flustra foliacea	Hornwrack / leafy bryozoan	R to C	O	2
Chartella papyracea	Lesser hornwrack	C	C	1
Ctenolabrus rupestris	Goldsinny	O to C	F	2
Max abundance = F				
Microciona atrasanguinea	Red sheet sponge	F	F	1
Sabellaria spinulosa	Ross worm	F	F	1
Bispira volutacornis	Double crowned fan worm	F	F	2
Trisopterus luscus	Bib/ pouting	F	F	1
Pomatoschistus	A goby	F	F	1

Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Annelida (Worms)				
Sabellaria spinulosa	Ross worm	F	F	HAP
Chordata				
Ctenolabrus rupestris	Goldsinny	C to O	F	Climate
Centrolabrus exoletus	Rock cook	P	P	Climate
Cnidaria (Corals, anemones, hydroids)				
Eunicella verrucosa	Pink sea fan	R	R	SOCC W&CA NS BAP Climate
Crustacea				
Maja squinado	Spiny spider crab	O	O	Climate
Mollusca				
Ostrea edulis	European oyster	O	O	SOCC BAP
Crepidula fornicata	Slipper limpet	A to R	F	Introduced
Tunicata (sea squirts)				
Styela clava	Stalked seasquirt / leathery seasquirt	O	O	Introduced



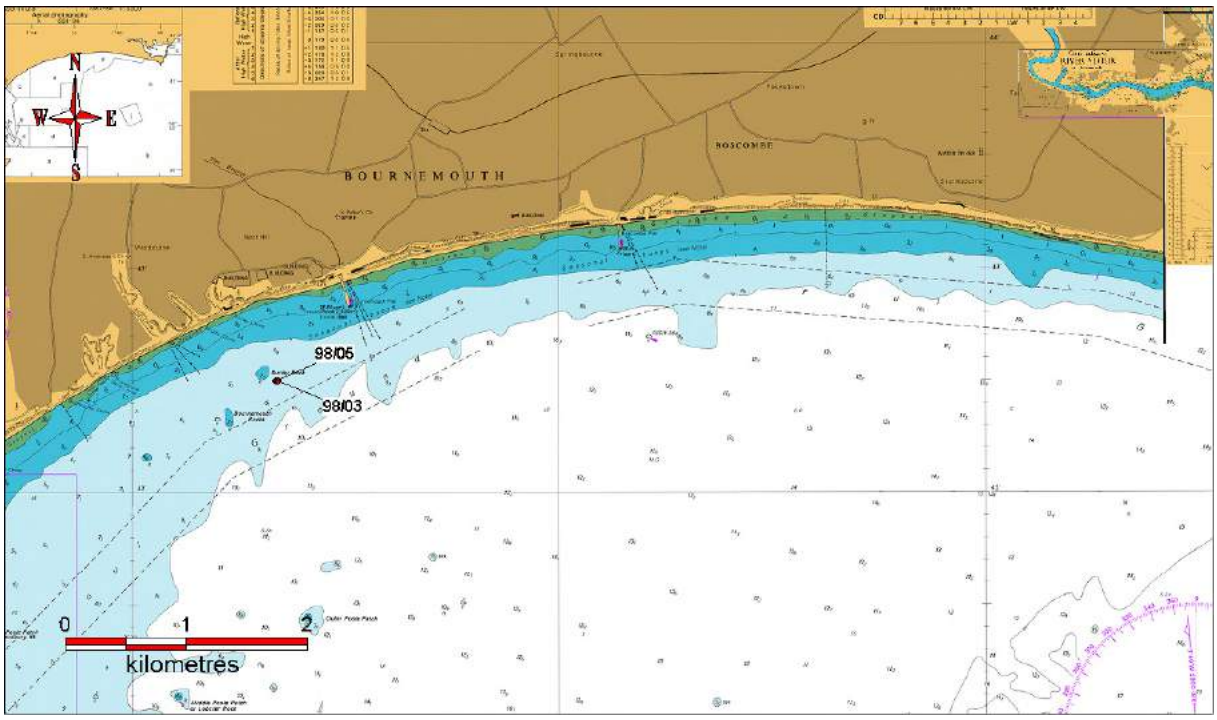
Seafan on Marks Reef Photo Mike Markey

Weymouth Carpet coral, Hoplangia durotrix Photo Mike Markey

Durley Rocks

Number of Seasearch dives 2

Number of species/groups recorded 36



Physical environment:

Depth range 6-9m

An area of silty rugged reef in shallow water surrounded by sandy seabed.

Habitat/Community types:

The rocks were covered in a rich turf of red algae (mostly *Calliblepharis ciliata*), sponges, particularly *Esperiopsis fucorum* and *Hemimycale columella*, hydroids and bryozoans (*Flustra* and *Bugula*) with the fanworm *Bispira volutacornis* frequently recorded in the crevices. The goldsinny wrasse, *Ctenolabrus rupestris* was common. Some large specimens of the sponge *Suberites ficus* were recorded on the lower edges of the reef.

Fish life included lots of goldsinny wrasse, a single butterfish, *Pholis gunnellis* and many black gobies, *Gobius niger,* at the base of the reef.

The seabed near the reef was covered in a dense layer of the slipper limpet, *Crepidula fornicata*. This gave way to clearer patches of rippled muddy sand with numerous sand-mason worm tubes.

Observations/Features of Interest:

Cuttlefish and squid eggs were attached to the reef, with *Ocenebra erinacea* eggs on vertical surfaces and *Buccinum undatum* egg capsules loose on the seabed.

Recorded biotopes

Sublittoral sediment

Infralittoral mixed sediment

Crepidula fornicata with ascidians and anenomes on infralittoral coarse mixed sediment

Infralittoral rock (and other hard substrata)

Kelp and red seaweeds (moderate energy infralittoral rock)

Dense foliose red seaweeds on silty moderately exposed infralittoral rock

Sulphur sponge, Suberites ficus

Most frequently recorded species

Number of Seasearch dives	2
Number of species/groups recorded	36

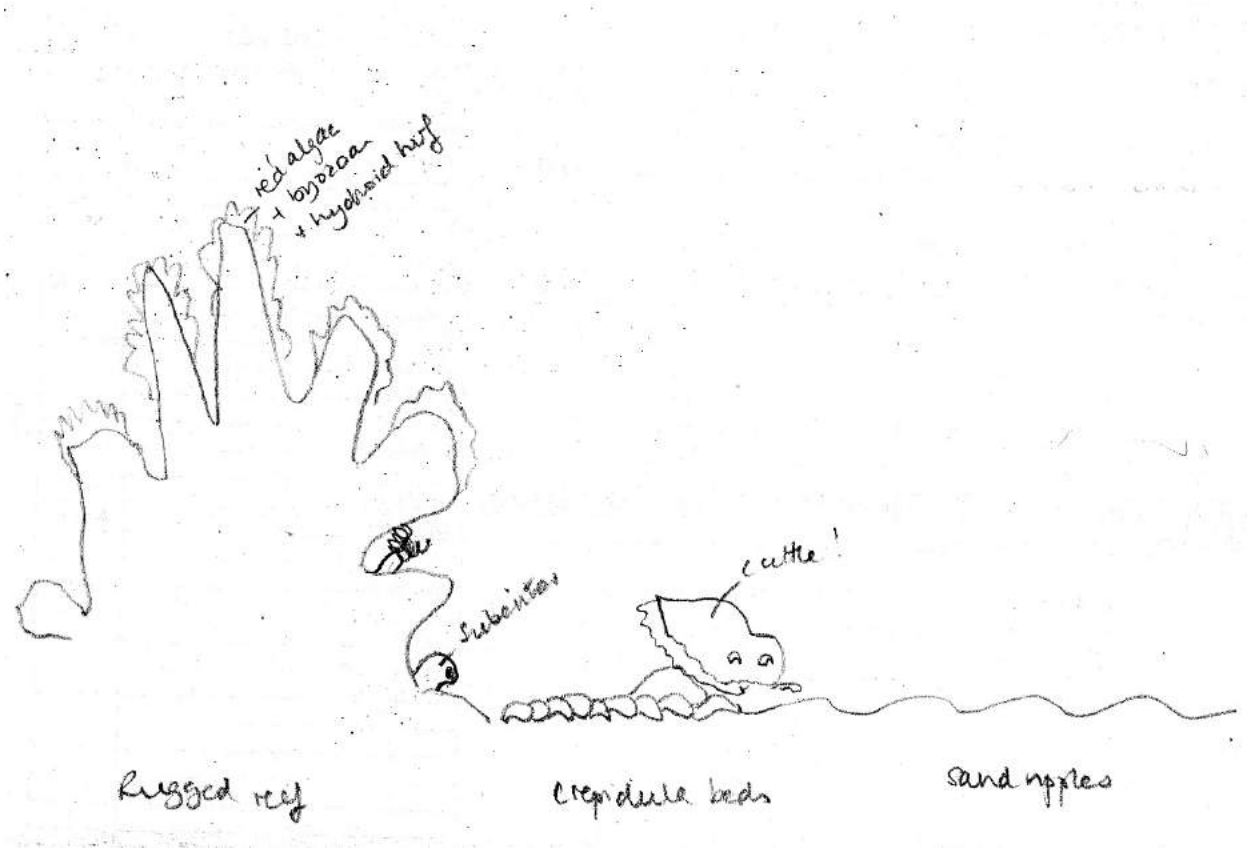
Species	Common name	No. of records	Abundance range
Esperiopsis fucorum	Shredded carrot sponge	2	O to F
Bispira volutacornis	Double crowned fan worm	2	O to F
Hemimycale columella	Pink/orange crater sponge	2	O to F
Hydrozoa	Hydroids/ sea firs	2	O to F
Labrus bergylta	Ballan wrasse	2	R to O
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	2	O
Ctenolabrus rupestris	Goldsinny	2	F
Flustra foliacea	Hornwrack / leafy bryozoan	2	O to F

Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Rhodophycota	Red seaweeds	A	A	1
Calliblepharis ciliata	Red fringe weed	A	A	1
Max abundance = F				
Esperiopsis fucorum	Shredded carrot sponge	O to F	O	2
Hemimycale columella	Pink/orange crater sponge	O to F	O	2
Hydrozoa	Hydroids/ sea firs	O to F	O	2
Bispira volutacornis	Double crowned fan worm	O to F	O	2
Cirripedia	Barnacles	O to F	O	1
Flustra foliacea	Hornwrack / leafy bryozoan	O to F	O	2
Aplidium punctum	Single spotted colonial seasquirt	F	F	1
Ctenolabrus rupestris	Goldsinny	F	F	2
Gobius niger	Black goby	O to F	O	1
Pomatoschistus pictus	Painted Goby	F	F	1
Max abundance = O				
Suberites	A sponge	O	O	1
Haliclona	A sponge	O	O	1
Dysidea fragilis	Goose bump/hedgehog sponge	O	O	1
Halecium halecinum	Herringbone hydroid	O	O	1
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	O	O	1
Calliostoma zizyphinum	Painted top shell / mermaid's nipples	O	O	2
Nudibranchia	Nudibranch	O	O	1
Bugula	A bryozoan	O	O	1
Syngnathidae	Pipefish family	O	O	1
Labrus bergylta	Ballan wrasse	R to O	R	2
Gobiusculus flavescens	Two-spotted goby	O	O	1

Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Chordata				
Ctenolabrus rupestris	Goldsinny	F	F	Climate
Mollusca				
Crepidula fornicata	Slipper limpet	P	P	Introduced

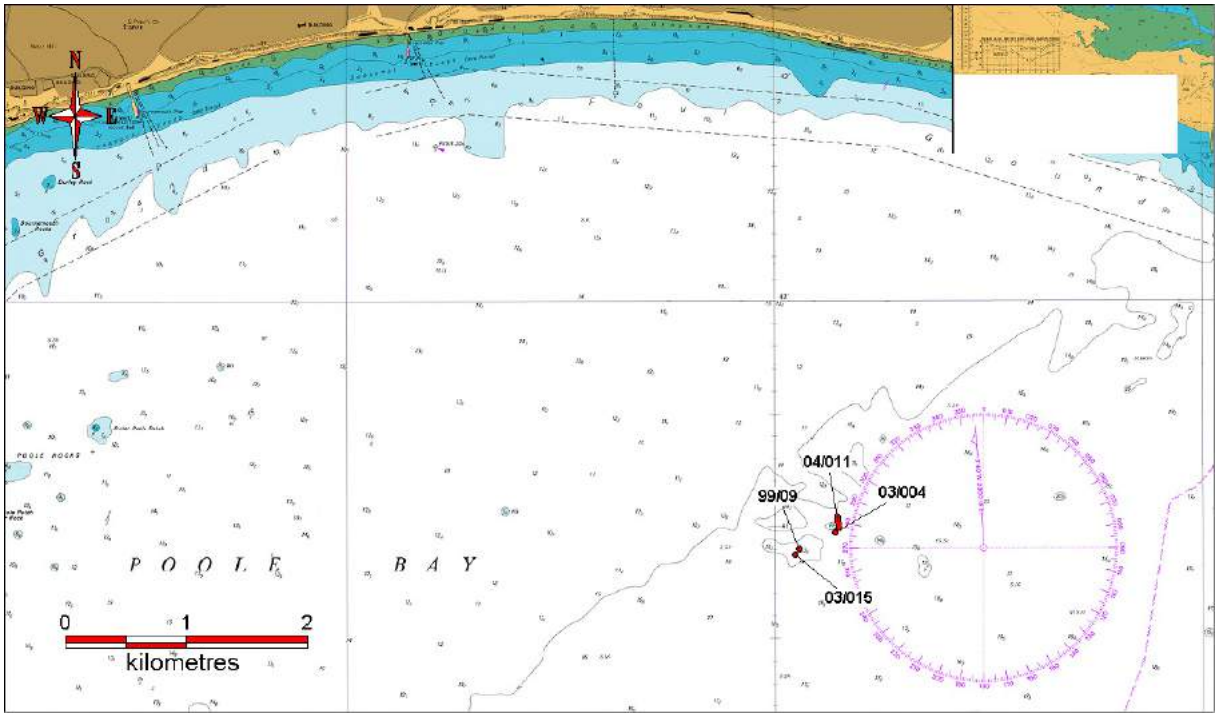


Sketch from dive 98/05

Southbourne Rough

Number of Seasearch dives 3

Number of species/groups recorded 46



Physical environment:

Depth range 16-17m

An area of flat slabs and low-lying reef covered in heavy silt. Nearby the seabed is fine muddy sand with occasional boulders and small rocky outcrops.

Habitat/Community types:

Hornwrack, *Flustra foliacea*, and large deadmens fingers dominant with sponges and *Nemertesia*. Other sponges include *Hemimycale columella* and *Dysidea fragilis*. The fanworm, *Bispira volutacornis* occupied many crevices.

Fish included leopard-spotted gobies, goldsinny and ballan wrasse, pouting and poor cod, butterfish and the dogfish, *Scyliorhinus canicula*.

The sandy area around the reef contained the brittlestar, *Ophiura*, small hermit crabs and bivalve siphons. The occasional boulders were dominated by bryozoans, especially *Flustra* and *Chartella* and often surrounded by dense patches of *Crepidula*.

Observations/Features of Interest:

A single mature seafan, *Eunicella verrucosa*, was recorded here in 2003 - currently the most easterly known record for this species. It was a healthy specimen approx 25cm tall.

Recorded biotopes

Sublittoral sediment

Infralittoral muddy sand

Infralittoral sandy mud

Ampelisca spp., Photis longicaudata and other tube-building amphipods and polychaetes in infralittoral sandy mud

Circalittoral rock (and other hard substrata)

Mixed faunal turf communities

Suberites spp. with a mixed turf of crisiids and *Bugula* spp. on heavily silted moderately wave-exposed shallow circalittoral rock

Black goby among Crepidula

Alcyonium digitatum on low horizontal bedrock

Most frequently recorded species

Number of Seasearch dives	3
Number of species/groups recorded	46

Species	Common name	No. of records	Abundance range
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	3	R to C
Cancer pagurus	Edible crab / brown crab /great crab	3	R to C
Ctenolabrus rupestris	Goldsinny	2	0 to F
Actinothoe sphyrodeta	Striped/white Sandalled anemone anemone	2	R to 0
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	2	C
Hemimycale columella	Pink/orange crater sponge	2	0 to F
Paguridae	Hermit crab family	2	F to C
Trisopterus minutus	Poor cod	2	F to C
Trisopterus luscus	Bib/ pouting	2	0 to F

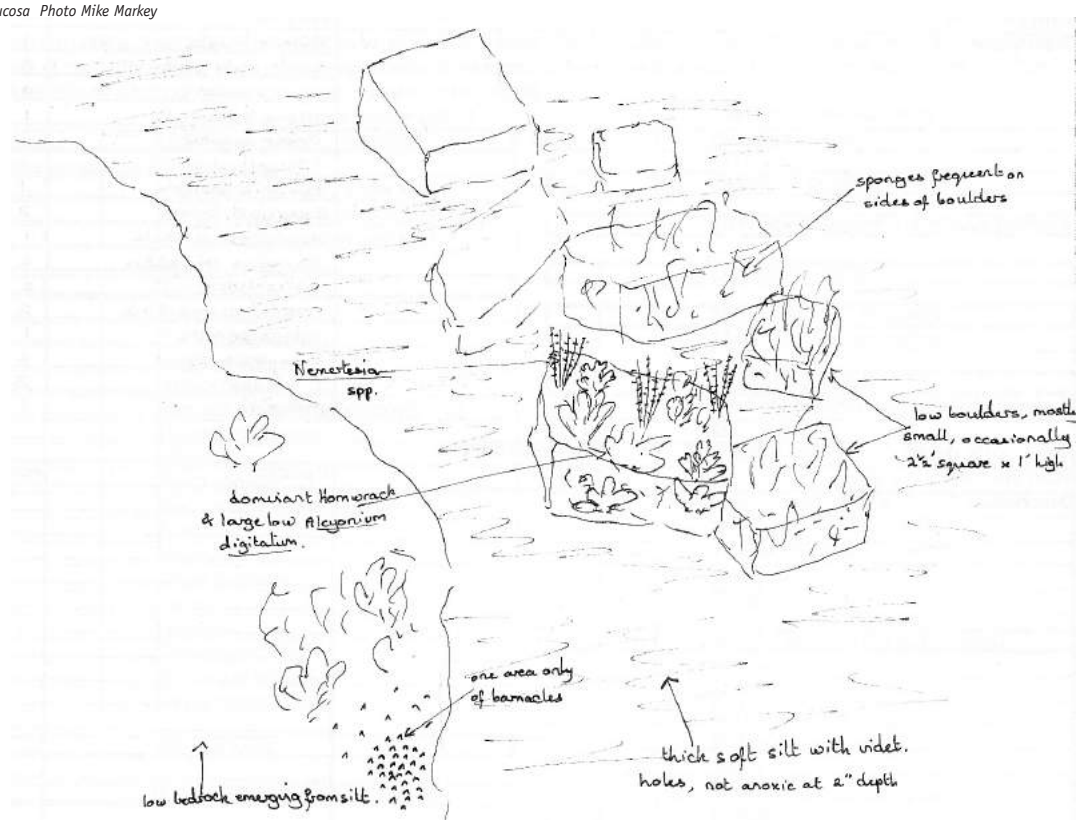
Species sorted by maximum recorded abundance

Species	Common name	Abundance range	Average abundance	No. of records
Max abundance = A				
Alcyonium digitatum	Dead man's fingers soft coral	A	A	1
Crepidula fornicata	Slipper limpet	C to A	C	1
Flustra foliacea	Hornwrack / leafy bryozoan	A	A	1
Max abundance = C				
Halichondria panicea	Breadcrumb sponge	C	C	1
Nemertesia antennina	Antenna hydroid/seabeard/ lobster horn coralline	C	C	2
Paguridae	Hermit crab family	F to C	F	2
Cancer pagurus	Edible crab / brown crab /great crab	R to C	0	3
Necora puber	Red-eyed/hairy/velvet swimming crab / fiddler crab	R to C	0	3
Ophiura ophiura	Sand brittlestar	C	C	1
Trisopterus minutus	Poor cod	F to C	F	2
Max abundance = F				
Porifera	Sponges	F	F	1
Hemimycale columella	Pink/orange crater sponge	0 to F	0	2
Dysidea fragilis	Goose bump/hedgehog sponge	F	F	1
Bispira volutacornis	Double crowned fan worm	F	F	1
Amphipoda	Amphipods	F	F	1
Trisopterus luscus	Bib/ pouting	0 to F	0	2
Ctenolabrus rupestris	Goldsinny	0 to F	0	2

Species of interest

Species	Common name	Abundance range	Average abundance	Importance
Chordata				
Ctenolabrus rupestris	Goldsinny	F to O	O	Climate
Cnidaria (Corals, anemones, hydroids)				
Eunicella verrucosa	Pink sea fan	R	R	SOCC W&CA NS BAP Climate
Crustacea				
Maja squinado	Spiny spider crab	P	P	Climate
Mollusca				
Ostrea edulis	European oyster	O	O	SOCC BAP
Crepidula fornicata	Slipper limpet	A to C	C	Introduced

Pink seafan, Eunicella verrucosa Photo Mike Markey



Sketch from dive 99/09

PLEASE RETURN COMPLETED FORM TO :-
ENGLISH NATURE, SLEPE FARM,
ARNE, WAREHAM, DORSET BH20 5BN

JOINT NATURE CONSERVATION COMMITTEE

SEASEARCH

Marine Nature Conservation Review

SEASEARCH is run by the Marine Conservation Society on behalf of the Joint Nature Conservation Committee

MARINE CONSERVATION SOCIETY

DIVE RECORDING FORM

Survey name: DORSET Date of dive: _____

Site name: _____ Dive number: _____ ← LEAVE BLANK

Name and address of recorders _____

_____

Site location: use one of the following:- OS grid reference; latitude/longitude; Decca:

_____

Time of dive (24hr clock please): Start: _____ Finish: _____ Duration: _____

Depth range below sea level: From: _____ To: _____

Depth range below chart datum (if known): From: _____ To: _____

Underwater visibility: _____

Sketch:

Please sketch your dive plan (map) and profile. Draw any habitats, communities or peculiar features marking depths. Indicate positions corresponding to your written habitat descriptions (see reverse side of form).

Dive Description:

Describe the following four points for each habitat you wish to describe. Try to use terms in the PROMPTSHEET.

Please start with the shallowest (where applicable); number your habitats and indicate their position on your sketch map and profile.

1. Sea floor type 2. Depth (range) of habitat 3. Communities (dominant and conspicuous species, appearance) 4. Any special features that might influence the community (e.g. silt, urchin grazing).

Please fill this section in to the best of your knowledge:

Site protection designation of the area:

Is the area of the dive:-

- Open coast ☐
- Straits / Narrows or Sounds ☐
- Shallow rapids ☐
- Enclosed coast ☐
- Saline lagoon ☐
- Other (please describe) ☐

Is the salinity:-

- Normal ☐
- Variable ☐
- Low ☐
- Unknown ☐

Is there stratification of the water column?:

- Thermocline ☐
- Halocline ☐
- Not stratified ☐
- Unknown ☐

Is the wave exposure at this site:-

- Extremely exposed ☐
- Very exposed ☐
- Exposed ☐
- Moderately exposed ☐
- Sheltered ☐
- Very sheltered ☐
- Extremely sheltered ☐

Is the maximum tidal current at this site:-

- Very strong (6kn) ☐
- Strong (3-6kn) ☐
- Moderately strong (1-3kn) ☐
- Weak (<1kn) ☐
- Very Weak (neg) ☐
- Uncertain ☐

Is the geology of the sea-bed:-

- **Hard:** ☐
- Igneous ☐
- Chert/Flint ☐
- Slate ☐
- Sand/mudstone ☐
- **Medium:** ☐
- Limestone ☐
- Friable ☐
- Slate/shale ☐
- **Soft:** ☐
- Sand/mudstone ☐
- Chalk ☐
- **Very soft:** ☐
- Clay ☐
- Not known ☐

Human usage and impact at the dive site.

Please tick the boxes if you saw any evidence of the following activities at the dive site or adjacent to the dive site.

Fishing	☐	Sewage dumping	☐
Trawling	☐	Waste dumping	☐
Angling	☐	Industrial discharge	☐
Potting	☐	Litter and debris	☐
Collection of shellfish	☐	Oil	☐
Collection of algae	☐	Tar	☐
Extraction of sand / gravel	☐	Chemicals	☐
Extraction of maerl	☐	Education / scientific study	☐
Extraction of oil or gas	☐	Recreational facilities	☐
Fishfarming of finfish	☐	Resort	☐
Fishfarming of shellfish	☐	Marina	☐
Farming of algae	☐	Beach	☐
Coastal defence in the form of seawalls	☐	Water sports	☐
Coastal defence in the form of dredging	☐	Popular dive site	☐
Coastal defence in the form of groynes	☐	Mooring	☐
Coastal defence in the form of land claim	☐	Beaching for boats	☐
Military use	☐	Launching site	☐
		Other(please describe)	☐

Is access to the site: easy ☐ difficult ☐ very difficult ☐

Your comments on human impact on the seabed:

Devon Wildlife Trust

D.W.T. SEASEARCH

SURVEY
FIELD
HABS

name of recorder:_____

address of recorder:_____

Survey name:_____

Site name:_____ Date of survey:_____

Site location: OS grid reference_____
or, latitude_____ longitude_____

Map of area: Please insert here a sketch of the area, or a photocopy of a map/chart. Please mark on the map the dive location (including any transect lines etc.).

Time of dive (using 24hr clock): start_____finish_____dive duration_____

Depth range (m) below sea level: from_____to_____

Underwater visibility (m):_____

Your assessment of the site: If you feel able, drawing on your own diving experience in this area or from around the UK, comment on the following:

1.underwater scenery (e.g. typical/unusual/spectacular)_____

_____

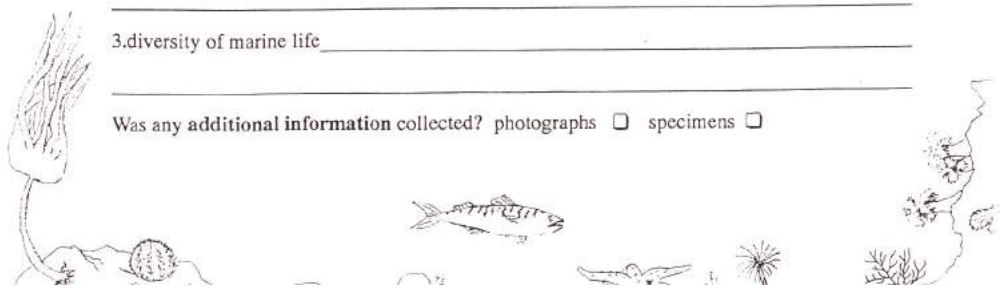
2.diversity of habitats_____

_____

3.diversity of marine life_____

_____

Was any **additional information** collected? photographs ☐ specimens ☐



Site sketch: Please sketch a cross-section of the area covered by the dive. Include DEPTHS and DISTANCES, any stratification, the main features of the seabed (overhangs, gullies etc.), and the different habitats/communities found (kelp forest etc.). Keep your sketch as simple as possible.

Site description: Describe briefly, with reference to your sketch, the following three points for each habitat.

1. the substratum (rock/sediment) e.g. bedrock, gravel, or mixtures - gravel with mud. Include DEPTH RANGES for each substrate type.
2. the communities in terms of the dominant species or species groups (e.g. kelp).
3. any habitat features (e.g. silt) or modifiers (e.g. grazing).

PURBECK SEASEARCH

Recorder Details
Name
Address

Other divers

Dive details *(from Dive Marshall Slate)*

Date		Ref No.	
Time in *(24hrs)*		Time out	
Position start	N	W	
Position finish	N	W	

Visibility *(m)*

Measured/Estimated

Current strength
Nil *Light*
Medium *Strong*

Current Direction *(degrees)*

Dive location

Insert a photocopy of a map or chart below and mark on the position of your dive as accurately as possible. Include any transits or bearings taken

Additional information - your impression of the site (*scenic, typical, boring*) - any evidence of human impact or any unusual observations made during your dive. If you have taken any photographs/video or collected any samples, record the details.

Return completed forms to:

Purbeck SEASEARCH is organised jointly by Purbeck Marine Wildlife Reserve *(Dorset Wildlife Trust)* and Coastwatch Project *(Durlston Country Park)* and is grant aided by English Nature.
SEASEARCH has been developed by the Marine Conservation Society and the Joint Nature Conservation Committee

Site description

Using your dive notes and working through the Seasearch Guidance Notes, describe in turn each of the habitats marked on your sketch.

Site sketch

Sketch a cross section of the area covered by your dive. Include DEPTHS and DISTANCES, the main features of the seabed (overhangs, gullies etc) and the different habitats/communities encountered (kelp forest etc). Keep it simple.

DIVE SKETCH

*Draw a **profile** and/or **plan** of the sea bed you encountered on your dive in the space below. Mark (& number) the different habitats, corresponding to the written descriptions on p3. Indicate conspicuous and/or characteristic species/life-forms. Make sure you include **depth(s)** (vertical axis) and a **distance** scale (horizontal axis). Indicate your direction of travel (compass bearing) , the direction of any current and orientation of features such as rock ledges or sand waves.*

For each dive, record the presence ***or absence*** of each of the following species.

	P/A		P/A		P/A
Two spot goby		Corkwing wrasse		Pollack	
Cuckoo wrasse *(male)*		Cuckoo wrasse *(female/juv.)*		Goldsinny wrasse	
Rock cook		Actinothoe		Bugula	
Ballan wrasse		Dysidea		Elephant's ear sponge	
Hemimycale		Tompot blenny		Leopard spot goby	
Bispira		Axinella		Phallusia	
Antenna hydroid		Hornwrack		Polymastia	
Bloody henry		Ross coral		Cuttlefish	
Cerianthus		Ciocalypta		Daisy anemone	
Razor shell siphons		Neopentadactyla		Lesser spotted dogfish	

Once completed, this form should be returned to:

Dorset Seasearch
Brooklands Farm
Forston,
Dorchester. DT2
7AA

Leave blank	
Survey no.	
Site no.	

Field site no.	
No. of biotopes	
Database entry	

SEASEARCH RECORDING FORM

INSTRUCTIONS FOR COMPLETING THIS FORM

1. *Please complete **all** sections of this form (unless otherwise instructed: * means complete if information known).*
2. *If any parts of the form are unclear, refer to the accompanying 'Guidance Notes'.*
3. *Every diving buddy pair should complete one form per dive.*
4. *Where asked, please give as much detail about the sea bed and the conspicuous marine life as you are able to.*

Survey name: Dorset Seasearch

Name & address of person completing this form:

Name

Address

Tel. no. (Hm/Wk)

Name of buddy

Name of group (boat/club)

SITE INFORMATION

Site name *(if known)* *

Date (dd : mm : yy)	:	:
Time (24 hr : min) **start**	**end**	
Duration of dive (hr : min)	:	

Underwater visibility m

Depth of sea bed (m) *(below sea level)*	Upper	Lower

Position	LATITUDE (N)			LONGITUDE (W) *(circle)*		
DDD:MM.MM DDD:MM:SS	deg.	min.	(sec.)	deg.	min.	(sec.)
Centre of site		.			.	
For drift dives **From**		.			.	
To		.			.	

Position derived from *(circle)*:

GPS Decca Admiralty chart OS map Other

Physical details *(check Guidance Notes)* *	
Salinity	
Wave exposure	
Tidal streams	

Uses & impacts at the site *(tick as appropriate)* *			
Fishing - potting		Sand/gravel extraction	
- trawling		Marina/port	
- netting		Water sports	
Angling		Known dive site	
Sewage discharge		Other(s) (please state)	
Waste dumping			
Litter & debris			

Site description: *include general location of site (e.g. 1 mile S of Durdle Door); outline general sea bed type(s); & highlight any unusual or important features which you think may be of conservation interest.*

Have you taken any of the following? *(circle)* photographs (habitat and/or species) specimens for preservation seaweeds for pressing

Physical seabed description

For each biotope described, assign a score between 5 (predominant/>66% of seabed) and 1 (rare/<1% of seabed) for each of the constituents listed below. Leave blank if absent.

biotope 1	biotope 2	biotope 3	ROCK
			Bedrock/very large boulders
			Large boulders (0.5-1m)
			Small boulders (.25-.5m)
			Cobbles/pebbles (fist sized to 50p sized)
			Shells (empty or as large pieces)
			Shells (living) (species?)
			Artificial - *metal*
			- *concrete*
			- *wood*
			Total rock

biotope 1	biotope 2	biotope 3	SEDIMENT
			Mobile cobbles/pebbles
			Clean gravel/coarse sands
			Muddy gravel/coarse sands
			Medium-fine sands
			Muddy sands
			Muds
			Mixed sediments
	✓		**Total sediment**

For each biotope described, assign a score between 1 (1st category) and 5 (2nd category) for the features listed below.

biotope 1	biotope 2	biotope 3	FEATURES - ROCK
			Rock type ( )
			Relief of seabed (even-rugged)
			Texture of rock (smooth-pitted)
			Scour (none-scoured)
			Silt (none-silted)
			Fissures >10mm (none-many)
			Crevices <10mm (none-many)
			Sediment on rock (tick if present)
			Aspect of rock faces
			- level (0-40°) (rare - predominant)
			- steep (40-80°) " "
			- vertical (80-100°) " "
			- overhangs " "

biotope 1	biotope 2	biotope 3	FEATURES - SEDIMENT
			Firmness (firm-soft)
			Stability (stable-mobile)
			Sorting (well sorted-mixed)
✓ if present			
			Waves (>10cm high)
			Ripples (<10cm high)
			Subsurface coarse layer
			Subsurface anoxic (black) layer

biotope 1	biotope 2	biotope 3	Rock communities
			Kelp/large algae communities Dominant species ( )
			✓*with red algae*
			✓*with coralline crusts*
			✓ *with animal growth on kelp*
			Turfs/crusts
			Red algae
			Brown algae
			Green algae
			Coralline crusts
			Barnacle/tubeworm/bryozoan crusts
			Dead men's fingers
			Anemones
			Erect sponges
			Encrusting/cushion sponges
			Ross coral
			Hornwrack
			Other bryozoans
			Hydroids
			Sea fans
			Colonial ascidians
			Solitary ascidians
			Mussel beds
			Brittlestar beds
			Rock borers in largely bare soft rock

Cover: **5**=>66%, **4**=33-66%, **3**=10-33%, **2**=1-10%, **1**=rare

biotope 1	biotope 2	biotope 3	Sediment communities
			Seagrass beds
			Algae on pebbles
			Barnacle/tubeworm crusts on pebbles
			Sabellaria reefs
			Bare, "lifeless" sediment
			Maerl (living)
			"Busy" sediment
			Mounds/casts
			Burrows/holes
			Tracks
			Anemones
			Sand mason worms
			Sea cucumbers
			Peacock worms
			Sea pens
			Bivalve siphons
			Mobile animals (all substrates)
			Hermit crabs
			Other crabs
			Snails/nudibranchs
			Starfish
			Flatfish
✓	1		*Other fish*
			Cuttlefish

Frequency: **5**=abundant, **4**=common, **3**=frequent, **2**=occasional, **1**=rare

*Complete a box below for each **habitat** you encountered on your dive. Each written description should be compiled using the information entered opposite. List the seaweed and animal species or groups you can recognise - if you are unsure, add a question mark. It's better to put "feathery red algae" or "yellow, ball-shaped sponge" for example, than to guess at a species. Mark abundance as **5**-abundant, **4**-common, **3**-frequent, **2**-occasional, **1**-rare. For each habitat, make sure you mention the following:*

SEA BED TYPE DEPTH DOMINANT COVER ORGANISMS CHARACTERISTIC SPECIES SPECIAL INFLUENCES (e.g. SILT)

No. 1	Min. depth(m)	Max. depth(m)	Main seabed type		
Main life-form				Species	Abun
Description:					

No. 2	Min. depth(m)	Max depth(m)	Main seabed type		
Main life-form				Species	Abun
Description:					

No. 3	Min. depth(m)	Max. depth(m)	Main seabed type		
Main life-form				Species	Abun
Description:					

Record No.

Dorset SEASEARCH
Recording Form

Name and address of person completing form
Name:
Address:

Tel: (Home/work)

Buddy:

Name of group:
(boat/club)

Position:	Latitude (N) deg.	min.	Longitude (W) deg.	min.
Midpoint				
From				
To				

Position derived from: (circle)
GPS Admiralty Chart OS Map Other

Site Name (if known)

Date (dd/mm/yyyy) / /
Time (24hr) start : end :
Duration of dive

Underwater visibility m

Depth range Upper Lower

Physical details (check guidance notes)
Salinity
Wave exposure
Tidal streams

Uses and impacts at the site (tick)

Fishing-potting		Sand/gravel extraction	
Fishing-trawling		Marina/port	
Fishing-netting		Watersports	
Angling		Known dive site	
Sewage discharge		Other(s) (state)	
Waste dumping			
Litter and debris			

Site description: include general location of site (e.g. 1 mile S of Durdle Door); outline general seabed types(s) and highlight any unusual or important features which you think may be of interest

Have you taken any of the following? (underline) Photographs (habitats/species)
Video Specimens for preservation/identification Seaweeds for pressing

No.	Min depth	Max depth	Main seabed type

Main life-form
Description

Species	Abun.

% of main habitat (if describing sub-feature)

No.	Min depth	Max depth	Main seabed type

Main life-form
Description

Species	Abun.

% of main habitat (if describing sub-feature)

Dive sketch

Draw a profile and/or plan of the seabed you encountered on your dive. Mark (and number) the different habitats, corresponding to the written descriptions over the page. Indicate conspicuous and/or characteristic species/life-forms. Make sure you include depths and a distance scale. Indicate your direction of travel (compass bearing, the direction of any current and the orientation of any features such as rock ledges or sand waves.

Habitat description

Complete a box below for each ***habitat*** you encountered on your dive. List the seaweed and animal species or groups you can recognise - if you are unsure, add a question mark. It's better to put "feathery red algae" or "yellow, ball shaped sponge", for example, than to guess at a species.
Note abundance using the following scale: **S** superabundant, **A** abundant, **C** common, **F** frequent, **O** occasional, **R** rare. For each habitat, make sure you mention the following: **Seabed type** **Depth** **Dominant cover** **Characteristic species** **Special influences (e.g silt)**

No.	Min depth	Max depth	Main seabed type	
Main life-form			Species	Abun.
Description				
% of main habitat (if describing sub-feature)				

Hampshire Habitat Survey

Site

Location (Lat/Long, transits, map/diagram)

Physical features
Salinity (fully marine/estuarine/brackish):
Tidal streams (exposed/moderate/sheltered):
Substrate (mud, sand, stones, rock, other):
Depth: 18-5 m. actual + time: 10am GMT/BST or Corrected: m.chart datum
Zone (above kelp zone or below kelp zone):
Quality of survey ('good vis + dedicated survey' to ' bad vis + brief look'):

Seabed

Characterising marine life

Which book(s) did you use for identification?

Name **Date**
Address/phone/e-mail

Use other side for sketches

Return to: Jenny Mallinson, S.O.E.S., Southampton Oceanography Centre, Southampton. SO14 3ZH

Thank you for completing this form

All that's left for you to do is to either hand it to the Dive Organiser or fold it into thirds along the dotted lines, tuck one part into the other, add a stamp and send it off. Your contact details will be included on the Seasearch database and those of partner organisations and will be used to send you information about Seasearch and associated projects. It will not be passed to third parties without your consent. The location, dive details, habitats and species information and the name of the recorder will be entered into a database and made available to the participating organisations and the general public. If you do not agree with this use of the data do not submit the form.

for Seasearch use only	validated by		date	
MarRec No		entered by		date

first fold

Please affix stamp here

Seasearch
Marine Conservation Society
Unit 3, Wolf Business Park
Alton Road
Ross-on-Wye
Herefordshire
HR9 5NB

second fold and tuck in

www.seasearch.org.uk

Seasearch is a joint project co-ordinated by the Marine Conservation Society and supported by: The Heritage Lottery Fund, The Wildlife Trusts, English Nature, Countryside Council for Wales, Scottish Natural Heritage, Environment & Heritage Service Northern Ireland, Joint Nature Conservation Committee, Environment Agency, Marine Biological Association (MarLIN), British Sub-Aqua Club, Professional Association of Diving Instructors and Project Aware, Scottish Sub-Aqua Club, Sub-Aqua Association and the Nautical Archaeology Society.

Record no

Seasearch Observation Form

www.seasearch.org.uk

This form asks for two types of information from your dive - **what the seabed was like** and **what marine life you saw.** Please read the guidance notes before completing the form. By completing this form you will be adding to our knowledge of the near-shore marine environment - helping it to remain fit for life!

Please complete the following sections in a black pen and BLOCK CAPITALS

Name	
Address	
	Postcode
Tel: Home	**Mobile**
Email	
Buddy's Name	

Site Name	**Date of Dive** / /
	Start of dive : (24hr)
	Max depth of survey m
General Location (inc county)	**Dive duration** (mins)
	U/W visibility m
	Sea Temperature °C
Position at start of dive ° . N ° . W or E	**or OS Grid Reference**
Position derived from (circle) GPS Admiralty Chart OS Map Other (state)	**Drift dive?** yes / no **Night dive?** yes / no
Did you take any photographs? yes / no	**or video footage?** yes / no

SO1-02/06

Description of the seabed

Please draw an approximate profile of the seabed (i.e. a side-on view), labeling features and dominant forms as appropriate. Remember to show the depth range and a distance scale.

Depth (m)

distance (m)

Types of seabed present: (please tick all that you saw and circle the dominant one)

Rocky Reef ☐ Boulders ☐ Cobbles and Pebbles ☐ Mixed Ground ☐ Sand and Gravel ☐ Mud ☐ Wreckage ☐ Other ☐

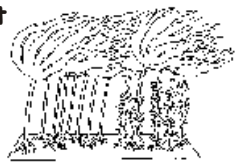
Did you notice anything unusual or noteworthy about the seabed or the marine life?

Was there any litter or were there any man-made objects apparent?

What marine life did you see on your dive?

Seabed cover types (tick all those present)

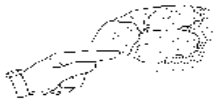
Kelp forest ☐



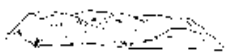
Kelp park ☐

Mixed seaweeds ☐

Encrusting pink algae ☐



Barren sediment
(no life or structures apparent) ☐



Animal turf on rocks

☐ **Short**

☐ **Tall**

Animal Beds
(e.g. mussels, brittlestars, scallops - state which)

☐ ☐

Sediment with life apparent
(tubes, burrows etc)

☐

Illustrations by
Bob Foster-Smith

Species you saw

Show abundance of each species as **R**are, **O**ccasional, **C**ommon, or if you're unsure, **P**resent.

Species	R, O, C or P

Marine Life

*Score the abundance of each group of animals and plants **in each habitat** alongside the name. In the blank spaces list the seaweeds & animals which you were able to identify **positively** from the different habitats. Use latin names if possible, but if you don't know them, common or descriptive names are acceptable. If you are not 100% sure about any, add a question mark. Do not enter names as guesses - it's better to exclude them than to include incorrect identifications. Give abundances in the columns: **A**bundant, **C**ommon, **F**requent, **O**ccasional & **R**are. If you did not note abundances, simply enter a **P** for Present. Continue on a separate sheet, if necessary.*

Seabed cover types

	1	2	3		1	2	3
Kelp forest				Short animal turf on rocks			
Kelp park				Tall animal turf on rocks			
Mixed seaweeds				Animal bed: (specify)			
Encrusting pink algae				Sediment with life apparent			
				Barren sediment			

Species

Please arrange your species records in the following order to help with logging the result later. Ensure that all species you have identified are on this list – including any shown on the plan/profile or noted in the habitat descriptions.
Seaweeds – brown, red and green, sponges, hydroids, anemones and corals, soft corals, seafans and seapens, jellyfish, worms, barnacles, shrimps & prawns, crabs & lobsters, molluscs – gastropods & bivalves, nudibranchs, cephalopods (squid, cuttlefish, octopus), bryozoans, starfish and brittlestars, urchins, sea cucumbers, sea squirts, fishes, birds and mammals, others.

	1	2	3		1	2	3
				Continue on a separate sheet if you need to			

Once completed, return the form to the Dive Organiser or to:
Seasearch, Marine Conservation Society, Unit 3, Wolf Business Park, Alton Road, Ross on Wye, HR9 5NB.
Your name and address will be included on the Seasearch database and those of partner organisations. You will also receive Seasearch newsletters and information on other marine surveys and projects. Please tick here if you do NOT want to be sent newsletters or information on other marine surveys and projects ☐

4

SEASEARCH SURVEY FORM

- If anything is unclear please refer to the **Guidance Notes**.
- Each pair of divers should complete a form between them.
- Please complete all parts of the form. Where there is a * only fill in the information if you know it.

Validated by	Date	Verified by	Date

Your details

Name	Tel No: hm/wk
Address	Email:
	Buddy's Name
	Name of group or survey
Postcode	

Dive details

Site name				Date of dive: dd / mm / yy
General location				Start of dive: : (24hr)
				Dive duration: (mins)
				U/W visibility: m
				Sea temperature: ^{0}c
Position	Latitude	Longitude	W or E	Drift dive? yes / no
Centre of site	0 .	0 .		Night dive? yes / no
For drift dives From	0 .	0 .		Did you take any of the following?
To	0 .	0 .		photographs yes / no
Or OS Grid Reference				video footage yes / no
Position derived from: (circle) GPS Admiralty chart OS map other		GPS Datum (circle) WGS84 OSGB36		specimens yes / no
				seaweeds for pressing yes / no

Seabed summary

Tick which types of seabed were present	For the area surveyed, what was
rocky reef ☐ boulders ☐ cobbles/pebbles ☐ mixed ground ☐	the deepest depth? (m) bsl bcd
sand/gravel ☐ mud ☐ wreckage ☐ other ☐	the shallowest depth? (m) bsl bcd
Circle the dominant one	Tidal correction to chart datum m*

Summarise: a. the main features of the seabed, b. any unusual features or species, c. any human activities or impacts at the site.

SS1 2/05

1

Habitat descriptions

*Complete a box below for each **habitat** you found on your dive. Each written description should tally with the information entered in the columns below and with your diagrams on the next page. If you found more than 3 habitats, continue your descriptions on another Form. Tick boxes where shown, or give percentages (make sure they add up to 100%!), or assign a score from 1-5 as appropriate. If you are uncertain about anything, leave the box blank.*

1. DESCRIPTION

2. DESCRIPTION

3. DESCRIPTION

1	2	3	
	m		**DEPTH LIMITS**
			Upper (from sea level) (i.e. minimum)
			Lower (from sea level) (i.e. maximum)
			Upper (from chart datum) *
			Lower (from chart datum) *

	%		**SUBSTRATUM**
			Bedrock type?:
			Boulders - very large > 1.0 m
			- large 0.5 - 1.0 m
			- small 0.25 - 0.5 m
			Cobbles (fist - head size)
			Pebbles (50p - fist size)
			Gravel - stone
			- shell fragments
			Sand - coarse
			- medium
			- fine
			Mud
			Shells (empty - or as large pieces)
			Shells (living - eg mussels, limpets)
			Artificial - metal
			- concrete
			- wood
			Other (state)
100	100	100	**Total**

1	2	3	
	1-5		**FEATURES - ROCK (all categories)**
			Relief of habitat (even - rugged)
			Texture (smooth - pitted)
			Stability (stable - mobile)
			Scour (none - scoured)
			Silt (none - silted)
			Fissures > 10 mm (none - many)
			Crevices < 10 mm (none - many)
			Boulder/cobble/pebble shape (rounded - angular)
			Sediment on rock? (tick if present)

	✓		**FEATURES – SEDIMENT (1)**
			Mounds / casts
			Burrows / holes
			Waves (>10 cm high)
			Ripples (< 10 cm high)
			Subsurface coarse layer?
			Subsurface anoxic (black) layer?

	1-5		**FEATURES – SEDIMENT (2)**
			Firmness (firm - soft)
			Stability (stable - mobile)
			Sorting (well - poor)

Sketches and plans

*Draw a **profile or plan** of the sea bed you encountered on your dive in the space below. Mark (& number) the different habitats, corresponding to the written descriptions on p.2. Indicate conspicuous and/or characteristic species. Make sure you include **depth(s)** (vertical axis) and a **distance** scale (horizontal axis) for a profile and scale and north point for a plan. Indicate your direction of travel (compass bearing) and/or the direction of any current.*

Purbeck Marine Wildlife Reserve

Ref.	*Date*	*Position*	*Recorder*	*Depth*	*Habitat*	*Biotope Code (JNCC 04.05)*
99/22	Jul 99	50° 33.905 N 2° 3.119W	Colin Froud	14.1 to 16.1m	Flat seabed with small boulders/cobbles	IR.HIR.KFaR.FoR
99/21	Jul 99	50° 33.905 N 2° 3.119W	Brian Kendrick	12 to 16.5m	Medium boulders covered with short algal turf	CR.HCR.XFa
99/21	Jul 99	50° 33.905 N 2° 3.119W	Brian Kendrick	12 to 16.5m	Medium boulders covered with short algal turf	IR.HIR.KFaR.FoR
99/22	Jul 99	50° 33.905 N 2° 3.119W	Colin Froud	14.1 to 16.1m	Flat seabed with small boulders/cobbles	SS.SMx.CMx
96/44	Jul 96	50° 33.928 N 2° 3.444W	Heather Bell	12.3 to 16.3m	Reef & ledges	CR.MCR
96/21	Jun 96	50° 33.713 N 2° 3.47W	Ian Park	24.1 to 25.1m	Flat bedrock with cobbles, shells & gravel	SS.SCS.CCS
96/21	Jun 96	50° 33.713 N 2° 3.47W	Ian Park	24.1 to 25.1m	Flat bedrock with cobbles, shells & gravel	CR.HCR.XFa.FluCoAs.SmAs
96/27	Jul 96	50° 33.863 N 2° 3.503W	Helen Frost	15.2 to 17.3m	Flat bedrock	CR.MCR
96/30	Jul 96	50° 33.938 N 2° 3.508W	Peter Tinsley	13.3 to 20.3m	Undercut ledge	CR.FCR.Cv
96/30	Jul 96	50° 33.938 N 2° 3.508W	Peter Tinsley	13.3 to 20.3m	Vertical wall of ledge	CR.HCR.XFa
96/30	Jul 96	50° 33.938 N 2° 3.508W	Peter Tinsley	13.3 to 20.3m	Horizontal bedrock - top of ledge	IR.HIR.KFaR.FoR
96/35	Jul 96	50° 33.946 N 2° 3.516W	Christine Griffith	14.2 to 20.8m	Flat shale bedrock with scattered pebbles	CR.MCR.EcCr.FaAlCr.Adig
96/35	Jul 96	50° 33.946 N 2° 3.516W	Christine Griffith	14.2 to 20.8m	Reef wall	CR.HCR.XFa
96/35	Jul 96	50° 33.946 N 2° 3.516W	Christine Griffith	14.2 to 20.8m	Flat bedrock	IR.HIR.KFaR.FoR
96/20	Jun 96	50° 33.329 N 2° 3.53W	Mike Markey	16.8 to 22.8m	Coarse shelly sand/gravel between small boulders	SS.SCS.CCS
96/20	Jun 96	50° 33.329 N 2° 3.53W	Mike Markey	16.8 to 22.8m	Coarse shelly sand/gravel between small boulders	CR.HCR.XFa
96/52	Sep 96	50° 35.241 N 2° 4.124W	Peter Tinsley	11.6 to 14.6m	Shaley seabed covered in silt	CR.MCR
96/52	Sep 96	50° 35.241 N 2° 4.124W	Peter Tinsley	11.6 to 14.6m	Shaley seabed covered in silt	IR.MIR.KR.XFoR
96/50	Sep 96	50° 35.395 N 2° 4.213W	Chris Wood	7 to 9.6m	Reef top - Red algae	IR.MIR.KR.XFoR
96/50	Sep 96	50° 35.395 N 2° 4.213W	Chris Wood	7 to 9.6m	Piddock bored reef	IR.MIR.KR.Lhyp
96/53	Sep 96	50° 35.16 N 2° 4.251W	Louise Lewans	9.8 to 12.8m	Rock with gullies and overhangs	IR.MIR.KR.XFoR
96/51	Sep 96	50° 35.225 N 2° 4.319W	Brian Kendrick	11.6 to 12.6m	Flat clay bed with silt	IR.HIR.KSed.XKHal
02/013	Jul 02	50° 35.149 N 2° 5.025W	Heather Bell	5.2 to 13.2m	Large boulders on shale bedrock	IR.MIR.KR.Lhyp.Pk
02/012	Jul 02	50° 35.156 N 2° 5.115W	Chris Dunkerly	6.2 to 12.2m	Piddock-bored shale ledge	CR.FCR.Cv
02/012	Jul 02	50° 35.156 N 2° 5.115W	Chris Dunkerly	6.2 to 12.2m	Piddock-bored shale ledge	IR.MIR.KR.Lhyp.Pk
98/65	Aug 98	50° 34.795 N 2° 5.182W	Jenni Flemming	15.1 to 19.1m	Hard pitted rocks covered in encrusting fauna	CR.HCR.XFa
98/65	Aug 98	50° 34.795 N 2° 5.182W	Jenni Flemming	15.1 to 19.1m	Steep rock/reef face	CR.HCR.XFa.SpAnVt
98/65	Aug 98	50° 34.795 N 2° 5.182W	Jenni Flemming	15.1 to 19.1m	Flat thin slabs of rock	CR.MCR.EcCr.FaAlCr
98/67	Aug 98	50° 34.753 N 2° 5.183W	Helen Frost	16.1 to 19.1m	Flat bedrock with ledges	CR.HCR.XFa
98/67	Aug 98	50° 34.753 N 2° 5.183W	Helen Frost	16.1 to 19.1m	Flat bedrock with ledges	IR.HIR.KSed.XKHal
98/64	Aug 98	50° 34.789 N 2° 5.185W	Brian Kendrick	15.1 to 19.1m	Top of ledge	IR.HIR.KSed.XKHal
98/64	Aug 98	50° 34.789 N 2° 5.185W	Brian Kendrick	15.1 to 19.1m	Sloping rocky ledge	CR.MCR.EcCr.FaAlCr.Flu

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Ref.	*Date*	*Position*	*Recorder*	*Depth*	*Habitat*	*Biotope Code (JNCC 04.05)*
98/64	Aug 98	50° 34.789 N 2° 5.185W	Brian Kendrick	15.1 to 19.1m	Vertical bedrock	CR.MCR.EcCr.FaAlCr.Flu
98/64	Aug 98	50° 34.789 N 2° 5.185W	Brian Kendrick	15.1 to 19.1m	Vertical bedrock	CR.HCR.XFa.SpAnVt
98/68	Aug 98	50° 34.788 N 2° 5.205W	Chris Wood	15.1 to 22.1m	Shelving slate rocks	CR.HCR.XFa
02/015	Aug 02	50° 35.181 N 2° 5.271W	Mike Markey	11 to 15m	Large limestone blocks with deep overhangs	CR.FCR.Cv
02/015	Aug 02	50° 35.181 N 2° 5.271W	Mike Markey	11 to 15m	Large limestone blocks with deep overhangs	IR.HIR.KFaR.FoR.Dic
98/63	Aug 98	50° 34.576 N 2° 5.338W	Helen Frost	12.4 to 14.4m	Smooth bedrock with occasional ledges	IR.HIR.KFaR.FoR.Dic
02/024	Sep 02	50° 34.785 N 2° 5.501W	Peter Tinsley	15 to 18m	Pebbles/cobbles on largely bare shale bedrock	CR.MCR.EcCr.FaAlCr
02/024	Sep 02	50° 34.785 N 2° 5.501W	Peter Tinsley	15 to 18m	2m high ledge	CR.HCR.XFa
02/024	Sep 02	50° 34.785 N 2° 5.501W	Peter Tinsley	15 to 18m	Flat bedrock, short mixed algal/bryozoan turf	IR.HIR.KFaR.FoR
02/023	Sep 02	50° 34.93 N 2° 5.558W	John Mann	16.3 to 19.3m	2m high rock ledge. Sponges/algae on vertical, red algae, Flustra, hydroids and sponges on top	IR.HIR.KFaR.FoR
97/61	Sep 97	50° 34.9 N 2° 5.638W	Julie Hatcher	13.5 to 17.5m	Bedrock with very large boulders - Short algal turf with sparse kelp	IR.MIR.KR.Lhyp.Pk
02/022	Sep 02	50° 34.857 N 2° 5.647W	Emmy Kelly	14.1 to 17.1m	Bedrock cliff 2-3m high	CR.HCR.XFa
97/62	Sep 97	50° 34.993 N 2° 5.741W	Heather Bell	10.7 to 16.7m	Face of ridge	IR.MIR
97/62	Sep 97	50° 34.993 N 2° 5.741W	Heather Bell	10.7 to 16.7m	Bedrock with cobbles	IR.HIR.KSed.XKHal
02/004	Jul 02	50° 34.987 N 2° 5.772W	John Mann	15.3 to 16.4m	Rocky reef	CR.HCR.XFa
99/30	Aug 99	50° 34.469 N 2° 5.888W	Brian Kendrick	21.4 to 24.4m	Flat bedrock with covering of turf	CR.HCR.XFa.ByErSp
95/24	Sep 95	50° 34.981 N 2° 6.221W	Helen Sumner	18.4 to 23.6m	Shallow ledges	CR.MCR
95/24	Sep 95	50° 34.981 N 2° 6.221W	Helen Sumner	18.4 to 23.6m	Rock ledge	CR.MCR
99/25	Jul 99	50° 35.505 N 2° 6.669W	Paul Gilliland	9.5	Broken bedrock with open caves & overhangs	IR.HIR.KSed.XKHal
99/23	Jul 99	50° 35.494 N 2° 6.697W	Jim Burt	6.2 to 10.2m	Flat rocky pavement with cobble patches	IR.HIR.KSed.XKHal
02/32	Jun 02	50° 34.837 N 2° 6.813W	Keith Coombs	17.4 to 23.4m	Kimmeridge shale covered in faunal turf	CR.HCR.XFa.FluCoAs.SmAs
99/28	Jul 99	50° 35.065 N 2° 6.999W	Nick Reed	22.9 to 23.9m	Flat bedrock with scattered boulders	CR.HCR.XFa.ByErSp.DysAct
02/001	Jun 02	50° 34.918 N 2° 7.003W	Keith Coombs	18.7 to 24.7m	Rock ledges	CR.HCR.XFa.ByErSp
99/27	Jul 99	50° 35.23 N 2° 7.009W	Jenni Flemming	20.4 to 22.7m	Series of low, flat shale ledges	CR.HCR.XFa.ByErSp.DysAct
01/004	Jun 01	50° 35.206 N 2° 7.025W	Jenny Mallinson	22.9	Flat tideswept shale	CR.HCR.XFa
01/004	Jun 01	50° 35.206 N 2° 7.025W	Jenny Mallinson	22.9	Flat tideswept shale	CR.MCR.EcCr.FaAlCr.Flu
96/18	Jun 96	50° 35.477 N 2° 7.097W	Chris Code	10.6 to 11.6m	Limestone bedrock	IR.HIR.KSed.XKHal
96/23	Jun 96	50° 35.63 N 2° 7.219W	Brian Kendrick	8.5	Bedrock with pebbles - Kelp park and mixed turf	IR.HIR.KSed.XKHal
99/32	Aug 99	50° 35.326 N 2° 7.249W	Robin Plowman	20.5 to 23.5m	Coarse gravel	SS.SCS.CCS
99/32	Aug 99	50° 35.326 N 2° 7.249W	Robin Plowman	20.5 to 23.5m	Coarse gravel	CR.HCR.XFa.SpNemAdia

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99/32	Aug 99	50° 35.326 N 2° 7.249W	Robin Plowman	20.5 to 23.5m	Flat bedrock with small boulders	CR.HCR.XFa.SpNemAdia
02/002	Jun 02	50° 34.885 N 2° 7.279W	Susan Lloyd	18.5	Shale bedrock	CR.HCR.XFa.ByErSp
96/54	Sep 96	50° 35.611 N 2° 7.384W	Julie Hatcher	10.9 to 13m	Flat bedrock with cobbles	IR.MIR
96/54	Sep 96	50° 35.611 N 2° 7.384W	Julie Hatcher	10.9 to 13m	Flat bedrock with cobbles	IR.HIR.KSed.XKHal
98/66	Aug 98	50° 35.585 N 2° 7.418W	Jenni Flemming	10.4 to 14.4m	Reef top	IR.MIR.KR.Lhyp.Pk
98/66	Aug 98	50° 35.585 N 2° 7.418W	Jenni Flemming	10.4 to 14.4m	Reef face	CR.HCR.XFa.SpAnVt
98/69	Aug 98	50° 35.622 N 2° 7.503W	Jenni Flemming	15 to 17m	Horizontal shale - ledge top	IR.HIR.KSed.XKHal
98/69	Aug 98	50° 35.622 N 2° 7.503W	Jenni Flemming	15 to 17m	Flat shale bedrock with loose slates - Coralline crusts/Bryozoan crusts - largely bare	CR.MCR.EcCr.FaAlCr
98/69	Aug 98	50° 35.622 N 2° 7.503W	Jenni Flemming	15 to 17m	Horizontal shale - ledge top	IR.HIR.KFaR.FoR.Dic
98/69	Aug 98	50° 35.622 N 2° 7.503W	Jenni Flemming	15 to 17m	Vertical rock face, heavily bored - Encrusting fauna	CR.HCR.XFa.SpAnVt
96/19	Jun 96	50° 35.775 N 2° 7.588W	Miles Brown	7.7 to 8.7m	Flat bedrock	IR.HIR.KSed.XKHal
02/003	Jun 02	50° 34.995 N 2° 7.589W	Jenny Fleming	18.6 to 20.4m	Flat shale bedrock, low animal turf	CR.HCR.XFa.ByErSp
02/003	Jun 02	50° 34.995 N 2° 7.589W	Jenny Fleming	18.6 to 20.4m	Flat shale bedrock, low animal turf	SS.SCS
95/23	Sep 95	50° 36.064 N 2° 7.631W	Rolf Williams	13.4 to 16.4m	Boulders on gravel/ sand - Laminaria	IR.MIR.KR.Lhyp.Pk
95/23	Sep 95	50° 36.064 N 2° 7.631W	Rolf Williams	13.4 to 16.4m	Boulders on gravel/ sand - Laminaria	IR.HIR.KFaR.FoR
95/23	Sep 95	50° 36.064 N 2° 7.631W	Rolf Williams	13.4 to 16.4m	Boulders on gravel/ sand - Laminaria	SS.SCS.CCS
95/02	May 95	50° 36.603 N 2° 8.057W	Heather Bell	11.9 to 13m	Large limestone rocks	SS.SCS.ICS
95/01	May 95	50° 36.603 N 2° 8.057W	Robin Plowman	0 to 3m	Coarse sand with boulders	SS.SCS.ICS
95/02	May 95	50° 36.603 N 2° 8.057W	Heather Bell	11.9 to 13m	Large limestone rocks	IR.MIR.KR.Lhyp.Pk
01/26	Aug 01	50° 35.744 N 2° 8.061W	Robin Plowman	15.8 to 17.8m	Shallow gully with tumbled boulders	CR.HCR.XFa
01/31	Aug 01	50° 35.814 N 2° 8.083W	Heather Bell	10.8 to 13.6m	Kelp park on low rocky ledges	IR.HIR.KFaR.FoR
01/31	Aug 01	50° 35.814 N 2° 8.083W	Heather Bell	10.8 to 13.6m	Kelp park on low rocky ledges	IR.HIR.KSed.XKHal
01/29	Aug 01	50° 35.804 N 2° 8.088W	Seasearch	8.6 to 13.4m	Rugged bedrock seabed with many fissures and kelp park/forest	IR.MIR.KR.Lhyp.Pk
01/29	Aug 01	50° 35.804 N 2° 8.088W	Seasearch	8.6 to 13.4m	Rugged bedrock seabed with many fissures and kelp park/forest	IR.HIR.KSed.XKHal
01/29	Aug 01	50° 35.804 N 2° 8.088W	Seasearch	8.6 to 13.4m	Rugged bedrock seabed with many fissures and kelp park/forest	IR.MIR.KR.Lhyp.Ft
97/33	Jul 97	50° 35.275 N 2° 8.189W	Peter Tinsley	20.8 to 22.8m	Extensively bored flat shale bedrock - Rich animal turf	CR.MCR.SfR
97/33	Jul 97	50° 35.275 N 2° 8.189W	Peter Tinsley	20.8 to 22.8m	Extensively bored flat shale bedrock - Rich animal turf	CR.HCR.XFa.SpNemAdia
97/33	Jul 97	50° 35.275 N 2° 8.189W	Peter Tinsley	20.8 to 22.8m	Flat shale bedrock	CR.HCR.XFa.SpNemAdia
97/33	Jul 97	50° 35.275 N 2° 8.189W	Peter Tinsley	20.8 to 22.8m	Flat level shale bedrock - Sparse animal turf	CR.MCR.SfR
97/33	Jul 97	50° 35.275 N 2° 8.189W	Peter Tinsley	20.8 to 22.8m	Flat level shale bedrock - Sparse animal turf	CR.MCR
99/33	Aug 99	50° 36.352 N 2° 8.276W	Heather Bell	4.2 to 6.2m	Rocky sebed with algal turf	IR.HIR.KSed.LsacChoR

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99/33	Aug 99	50° 36.352 N 2° 8.276W	Heather Bell	4.2 to 6.2m	Kelp covered rocky seabed	IR.HIR.KSed.XKScrR
97/29	Jun 97	50° 35.858 N 2° 8.287W	Brian Kendrick	12.4 to 16.4m	Stepped bedrock	IR.HIR.KSed.XKHal
97/29	Jun 97	50° 35.858 N 2° 8.287W	Brian Kendrick	12.4 to 16.4m	Shale bedrock	CR.HCR.XFa
96/24	Jun 96	50° 36.39 N 2° 8.357W	Brian Kendrick	4.8	Ridge - Dense kelp forest	IR.MIR.KR.Lhyp.Ft
96/22	Jun 96	50° 36.43 N 2° 8.412W	Seasearch	4.9	Bedrock ledges	IR.MIR.KR.Lhyp.Ft
97/28	Jun 97	50° 35.923 N 2° 8.444W	Heather Bell	12.4 to 14.4m	Level shale bedrock - Kelp park	IR.HIR.KSed.XKHal
98/19	Jul 98	50° 35.879 N 2° 8.497W	Peter Tinsley	10.8 to 12.8m	Flat shale bedrock covered with kelp	IR.HIR.KSed.XKHal
02/021	Sep 02	50° 35.396 N 2° 8.644W	John Mann	19.3 to 21.8m	Flat, silty bedrock with flat cobbles. Lots of piddock holes, mixed animal turf	CR.HCR.XFa.ByErSp
98/78	Sep 98	50° 35.98 N 2° 8.704W	Heather Bell	13.4 to 18.4m	Bedrock & cobbles - thin kelp cover	IR.HIR.KSed.XKHal
98/78	Sep 98	50° 35.98 N 2° 8.704W	Heather Bell	13.4 to 18.4m	Bedrock & medium boulders on sand over bedrock	CR.HCR.XFa
98/78	Sep 98	50° 35.98 N 2° 8.704W	Heather Bell	13.4 to 18.4m	Gully with overhangs	CR.HCR.XFa.SpAnVt
98/78	Sep 98	50° 35.98 N 2° 8.704W	Heather Bell	13.4 to 18.4m	Large boulders	SS.SCS.CCS
98/78	Sep 98	50° 35.98 N 2° 8.704W	Heather Bell	13.4 to 18.4m	Pebbles & cobbles	SS.SCS.CCS
97/30	Jun 97	50° 35.795 N 2° 8.74W	Peter Tinsley	18.1 to 20.1m	Flat shale bedrock with silt/gravel covering	CR.MCR
97/30	Jun 97	50° 35.795 N 2° 8.74W	Peter Tinsley	18.1 to 20.1m	~1m high ledge	CR.HCR.XFa.SpAnVt
03/006	Aug 03	50° 35.729 N 2° 8.752W	Jen Bryant	18.3 to 22m	Brittlestar beds	IR.MIR.KR.XFoR
03/006	Aug 03	50° 35.729 N 2° 8.752W	Jen Bryant	18.3 to 22m	Brittlestar beds	CR.MCR.EcCr.CarSp.Bri
02/007	Jul 02	50° 35.783 N 2° 8.76W	Julie Hatcher	16.1 to 20.1m	Brittlestar beds	CR.MCR.EcCr.FaAlCr.Bri
02/006	Jul 02	50° 35.783 N 2° 8.76W	John Mann	18.1 to 21.1m	Brittlestar beds	CR.HCR.XFa.ByErSp
02/006	Jul 02	50° 35.783 N 2° 8.76W	John Mann	18.1 to 21.1m	Brittlestar beds	CR.MCR.EcCr.FaAlCr.Bri
02/007	Jul 02	50° 35.783 N 2° 8.76W	Julie Hatcher	16.1 to 20.1m	Brittlestar beds	CR.HCR.XFa.ByErSp
97/02	Apr 97	50° 35.848 N 2° 8.789W	Brian Kendrick	18.3 to 19.3m	Flat slate bedrock - Plant & animal turf	CR.HCR.XFa
99/31	Aug 99	50° 35.801 N 2° 8.799W	Brian Kendrick	19.3 to 20.3m	Slate ledge with many sponges	CR.HCR.XFa.SpAnVt
99/31	Aug 99	50° 35.801 N 2° 8.799W	Brian Kendrick	19.3 to 20.3m	Plateau covered in dense growth	CR.HCR.XFa.SpNemAdia
99/31	Aug 99	50° 35.801 N 2° 8.799W	Brian Kendrick	19.3 to 20.3m	Piddock bored flat slate bedrock	CR
02/020	Sep 02	50° 35.445 N 2° 8.823W	Peter Tinsley	16.3 to 20.9m	Shale bedrock - short turf algae, sponges, hydroids and bryozoans	CR.HCR.XFa.ByErSp
02/020	Sep 02	50° 35.445 N 2° 8.823W	Peter Tinsley	16.3 to 20.9m	Ampelisca? beds	SS.SMu.ISaMu.AmpPlon
98/62	Aug 98	50° 35.761 N 2° 8.841W	Miles Brown	16.3 to 18.7m	Rocky shelf	CR.HCR.XFa.SpAnVt
98/62	Aug 98	50° 35.761 N 2° 8.841W	Miles Brown	16.3 to 18.7m	Shell debris on scoured bedrock - Brittlestars	CR.MCR.EcCr.FaAlCr.Bri
98/62	Aug 98	50° 35.761 N 2° 8.841W	Miles Brown	16.3 to 18.7m	Flat bedrock with short turf	CR.HCR.XFa
99/34	Aug 99	50° 36.078 N 2° 8.9W	Alan Grant	9.7 to 14.8m	Ledges & gully with overhangs	CR.HCR.XFa.SpAnVt
99/34	Aug 99	50° 36.078 N 2° 8.9W	Alan Grant	9.7 to 14.8m	Flat shell debris - Lifeless	SS.SMx.CMx

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99/34	Aug 99	50° 36.078 N 2° 8.9W	Alan Grant	9.7 to 14.8m	Flat silty bedrock with algal turf	IR.MIR.KR.Lhyp.Pk
97/09	Apr 97	50° 35.8 N 2° 8.975W	Alice Lewthwaite	15.5 to 21.5m	Brittlestar patches	CR.MCR
97/09	Apr 97	50° 35.8 N 2° 8.975W	Alice Lewthwaite	15.5 to 21.5m	Deep gully	CR.MCR
97/09	Apr 97	50° 35.8 N 2° 8.975W	Alice Lewthwaite	15.5 to 21.5m	Bristlestar bed	CR.MCR.EcCr.FaAlCr.Bri
01/005	Jun 01	50° 35.828 N 2° 8.978W	Jenny Mallinson	17.9 to 19.4m	Brittlestar beds	CR.HCR.XFa.SpAnVt
01/005	Jun 01	50° 35.828 N 2° 8.978W	Jenny Mallinson	17.9 to 19.4m	Brittlestar beds	CR.HCR.XFa
01/005	Jun 01	50° 35.828 N 2° 8.978W	Jenny Mallinson	17.9 to 19.4m	Brittlestar beds	CR.MCR.EcCr.FaAlCr.Bri
98/77	Sep 98	50° 35.405 N 2° 9.054W	Brian Kendrick	22 to 25.8m	Flat bedrock with large boulders	CR.MCR.EcCr.FaAlCr.Flu
95/12	Jul 95	50° 36.314 N 2° 9.342W	Nick Reed	12.4 to 13.9m	Waved gravel with 5% live maerl	SS.SCS.CCS
95/12	Jul 95	50° 36.314 N 2° 9.342W	Nick Reed	12.4 to 13.9m	Waved gravel with 5% live maerl	IR.HIR.KSed.XKHal
97/10	Apr 97	50° 35.951 N 2° 9.43W	Adrian Mutlow	16.4 to 23.4m	Flat level bedrock slabs with thick soft silt	CR.MCR
97/10	Apr 97	50° 35.951 N 2° 9.43W	Adrian Mutlow	16.4 to 23.4m	Bristlestar bed	CR.MCR.EcCr.FaAlCr.Bri
02/38	Sep 02	50° 35.778 N 2° 9.445W	Lisa Browning	22.4 to 23.7m	Kimmeridge shale with short turf	CR.HCR.XFa
95/14	Jul 95	50° 36.349 N 2° 9.456W	Adrian Bishop	7.7 to 13.2m	Large boulders - Red & brown algae	IR.HIR.KFaR.FoR
95/14	Jul 95	50° 36.349 N 2° 9.456W	Adrian Bishop	7.7 to 13.2m	Large boulders - Red & brown algae	SS.SCS.CCS
95/14	Jul 95	50° 36.349 N 2° 9.456W	Adrian Bishop	7.7 to 13.2m	Bedrock with crevices/fissures - Red & Brown algae	IR.HIR.KFaR.FoR
95/14	Jul 95	50° 36.349 N 2° 9.456W	Adrian Bishop	7.7 to 13.2m	Flat bedrock with silt cover - sparse algal turf	CR.MCR.SfR
95/11	Jul 95	50° 36.525 N 2° 9.517W	Jeremy Rowe	6.7 to 11.7m	Silty gravel & pebbles	SS.SCS.CCS
95/11	Jul 95	50° 36.525 N 2° 9.517W	Jeremy Rowe	6.7 to 11.7m	Silty gravel & pebbles	IR.HIR.KFaR.FoR
95/11	Jul 95	50° 36.525 N 2° 9.517W	Jeremy Rowe	6.7 to 11.7m	Reef	IR.HIR.KFaR.LhypR.Ft
95/11	Jul 95	50° 36.525 N 2° 9.517W	Jeremy Rowe	6.7 to 11.7m	Silty gravel & pebbles	CR.MCR.SfR
95/13	Jul 95	50° 36.647 N 2° 9.558W	Heather Bell	1.5 to 4.5m	Kelp forest	IR.HIR.KFaR.LhypR.Ft
03/002	Jul 03	50° 36.203 N 2° 9.574W	Robin Plowman	17.7 to 19.7m	Flat top reef with low animal turf	CR.HCR.XFa
97/11	Apr 97	50° 36.087 N 2° 9.589W	Harry Ram	9.4 to 23.4m	Mud bottom with rocky outcrop	CR.MCR.EcCr.FaAlCr.Adig
04/013	Jun 04	50° 36.511 N 2° 9.649W	Jo Porter	8.1 to 10.1m	Rocky reef with kelp/Halidrys	CR.FCR.Cv
98/18	Jul 98	50° 36.518 N 2° 9.686W	Robin Plowman	12.2 to 15.2m	Gravel and boulders	SS.SCS.ICS
98/18	Jul 98	50° 36.518 N 2° 9.686W	Robin Plowman	12.2 to 15.2m	Rock ledges with boulders	CR.HCR.XFa
99/38	Aug 99	50° 35.939 N 2° 9.726W	Heather Bell	17.8 to 22.6m	Shale with coarse gravel	SS.SCS.CCS
99/38	Aug 99	50° 35.939 N 2° 9.726W	Heather Bell	17.8 to 22.6m	Shale with coarse gravel	CR.HCR.XFa.SpNemAdia
96/41	Aug 96	50° 36.631 N 2° 9.736W	Brian Kendrick	8 to 12m	Bedrock with boulders and cobbles	SS.SMx.CMx
96/46	Aug 96	50° 36.622 N 2° 9.736W	Carol Puddephatt	4.3 to 11m	Flat bedrock with some gravel cover	IR.MIR.KR.Lhyp.Pk
96/46	Aug 96	50° 36.622 N 2° 9.736W	Carol Puddephatt	4.3 to 11m	Boulders	IR.MIR.KR.XFoR

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96/41	Aug 96	50° 36.631 N 2° 9.736W	Brian Kendrick	8 to 12m	Bedrock with boulders and cobbles	CR.MCR.EcCr.FaAlCr
96/46	Aug 96	50° 36.622 N 2° 9.736W	Carol Puddephatt	4.3 to 11m	Bedrock ridges & large boulders	IR.MIR
96/41	Aug 96	50° 36.631 N 2° 9.736W	Brian Kendrick	8 to 12m	Bedrock with boulders and cobbles	IR.MIR.KR.LhypTX.Pk
03/001	Jul 03	50° 36.059 N 2° 9.745W	Heather Bell	18.1 to 20.6m	Gently sloping bedrock dominated by Flustra and scattered algae	CR.HCR.XFa.ByErSp
03/001	Jul 03	50° 36.059 N 2° 9.745W	Heather Bell	18.1 to 20.6m	Coarse gravel in small patches	SS.SCS.CCS
03/001	Jul 03	50° 36.059 N 2° 9.745W	Heather Bell	18.1 to 20.6m	Vertical bedrock - sponges, erect bryozoans and enc. corallines	CR.HCR.XFa
97/31	Jul 97	50° 36.505 N 2° 9.8W	Gary Austin	10.8 to 15.8m	Muddy gravel over bedrock	SS.SMx.CMx
97/31	Jul 97	50° 36.505 N 2° 9.8W	Gary Austin	10.8 to 15.8m	Large boulders	CR.MCR
95/17	Jul 95	50° 36.61 N 2° 9.873W	Jeremy Rowe	7.3 to 12.3m	Silty pebbles/gravel	SS.SCS.CCS
95/17	Jul 95	50° 36.61 N 2° 9.873W	Jeremy Rowe	7.3 to 12.3m	Boulder	IR.HIR.KFaR.FoR
95/17	Jul 95	50° 36.61 N 2° 9.873W	Jeremy Rowe	7.3 to 12.3m	Slate reef	IR.MIR.KR.Lhyp.Pk
99/24	Jul 99	50° 35.956 N 2° 10.105W	Brian Kendrick	19.6 to 22.4m	Flat bedrock with thin layer of sediment - Small scallops	CR.MCR.EcCr.FaAlCr.Flu
99/24	Jul 99	50° 35.956 N 2° 10.105W	Brian Kendrick	19.6 to 22.4m	Rocky ledges with encrusting sponges	CR.HCR.XFa
99/24	Jul 99	50° 35.956 N 2° 10.105W	Brian Kendrick	19.6 to 22.4m	Rocky ledges with encrusting sponges	CR.HCR.XFa.SpAnVt
95/18	Jul 95	50° 36.486 N 2° 10.109W	Julia Kelsall	17.1	Reef	CR.MCR.EcCr.FaAlCr
95/18	Jul 95	50° 36.486 N 2° 10.109W	Julia Kelsall	17.1	Reef	CR.HCR.XFa
99/26	Jul 99	50° 35.942 N 2° 10.113W	Nick Reed	17.7 to 22.7m	Bedrock with thin layer of muddy gravel/sand - Scallops	SS.SMx.CMx
99/26	Jul 99	50° 35.942 N 2° 10.113W	Nick Reed	17.7 to 22.7m	Bedrock with thin layer of muddy gravel/sand - Scallops	CR.HCR.XFa.SpNemAdia
99/26	Jul 99	50° 35.942 N 2° 10.113W	Nick Reed	17.7 to 22.7m	Flat Kimmeridge shale bedrock	CR.MCR.EcCr.FaAlCr.Flu
99/26	Jul 99	50° 35.942 N 2° 10.113W	Nick Reed	17.7 to 22.7m	Kimmeridge shale rock ledges	CR.HCR.XFa.SpAnVt
02/35	Sep 02	50° 36.295 N 2° 10.222W	Brian Kendrick	18 to 19m	Jagged reef with overhangs	CR.HCR.XFa.FluCoAs.X
99/36	Aug 99	50° 36.57 N 2° 10.245W	Jane Lilley	15.3 to 17.8m	Limestone bedrock overlaying shale	CR.HCR.XFa.SpAnVt
99/36	Aug 99	50° 36.57 N 2° 10.245W	Jane Lilley	15.3 to 17.8m	Limestone bedrock overlaying shale	IR.HIR.KFaR.FoR
99/36	Aug 99	50° 36.57 N 2° 10.245W	Jane Lilley	15.3 to 17.8m	Shale overlain by waved gravel	SS.SCS.CCS.Nmix
96/45	Aug 96	50° 36.73 N 2° 10.258W	Chris Wood	10 to 11m	Sand	SS.SCS.ICS
96/45	Aug 96	50° 36.73 N 2° 10.258W	Chris Wood	10 to 11m	Small rocks on bedrock	IR.HIR.KFaR.FoR
96/42	Aug 96	50° 36.73 N 2° 10.258W	Nick Boswell	12 to 13m	Rocky outcrops of bedrock	IR.HIR.KFaR.FoR
96/42	Aug 96	50° 36.73 N 2° 10.258W	Nick Boswell	12 to 13m	Sand/fine gravel - burrowers	SS.SMx
96/42	Aug 96	50° 36.73 N 2° 10.258W	Nick Boswell	12 to 13m	Rocky outcrops of bedrock	IR.HIR.KSed.XKHal
02/33	Sep 02	50° 36.146 N 2° 10.268W	Keith Coombs	17.8 to 20.8m	Shale reef with faunal turf and encrusting algae	CR.HCR.XFa.ByErSp
02/33	Sep 02	50° 36.146 N 2° 10.268W	Keith Coombs	17.8 to 20.8m	Limestone reef with short faunal turf and encrusting algae	CR.HCR.XFa.ByErSp
02/33	Sep 02	50° 36.146 N 2° 10.268W	Keith Coombs	17.8 to 20.8m	Mixed pebble/gravel with Crepidula	SS.SMx.IMx.CreAsAn

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Ref.	*Date*	*Position*	*Recorder*	*Depth*	*Habitat*	*Biotope Code (JNCC 04.05)*
02/37	Sep 02	50° 36.179 N 2° 10.32W	Julie Hatcher	19.8 to 22.8m	Rocky reef with faunal turf	CR.HCR.XFa.ByErSp
02/37	Sep 02	50° 36.179 N 2° 10.32W	Julie Hatcher	19.8 to 22.8m	Flat shale bedrock	CR.HCR.XFa
98/79	Sep 98	50° 34.77 N 2° 10.335W	Peter Tinsley	27.6 to 28.4m	Fine clean sand in ripples	SS.SCS.CCS
98/80	Sep 98	50° 34.775 N 2° 10.335W	Heather Bell	27.4 to 27.8m	Shale bedrock with covering of fine sand	SS.SCS.CCS
02/36	Sep 02	50° 36.279 N 2° 10.433W	Julie Hatcher	19.7 to 20.4m	Rocky seabed with cobbles	SS.SMx.IMx.CreAsAn
02/36	Sep 02	50° 36.279 N 2° 10.433W	Julie Hatcher	19.7 to 20.4m	Rocky seabed with cobbles	SS.SCS.CCS
02/34	Sep 02	50° 36.271 N 2° 10.468W	Brian Kendrick	17.5 to 21.5m	Rocky reef with short faunal turf	CR.HCR.XFa.FluCoAs.X
02/34	Sep 02	50° 36.271 N 2° 10.468W	Brian Kendrick	17.5 to 21.5m	Heavily pitted shale bedrock with shrt turf	SS.SMx.IMx.CreAsAn
97/65	Sep 97	50° 36.004 N 2° 10.472W	Brian Kendrick	17.1 to 21.1m	Flat gravel seabed, some cobbles	SS.SMx.CMx
96/47	Aug 96	50° 36.694 N 2° 10.495W	Louise Lowans	12 to 13m	Stepped shale ledges	IR.HIR.KFaR.FoR.Dic
97/64	Sep 97	50° 35.96 N 2° 10.66W	Miles Brown	20.1 to 23.6m	Flat rock covered with sand/shells	CR.MCR.EcCr
99/37	Aug 99	50° 36.789 N 2° 10.701W	Jane Lilley	6 to 9.7m	Boulders on firm silt with pebbles/gravel	SS.SMx.IMx
99/37	Aug 99	50° 36.789 N 2° 10.701W	Jane Lilley	6 to 9.7m	Bedrock blocks separated by gullies	IR.HIR.KSed.XKHal
95/09	Jul 95	50° 36.802 N 2° 10.788W	Heather Bell	7.3 to 8.3m	Huge boulders on gravel	IR.HIR.KSed.XKHal
95/15	Jul 95	50° 36.735 N 2° 10.854W	Adrian Bishop	11.3 to 12.5m	Boulders - Brown & red algae	IR.HIR.KFaR.FoR
95/16	Jul 95	50° 36.62 N 2° 10.888W	Geoff Drury	19.5 to 22.5m	Shelly gravel with low reefs	SS.SCS.CCS
95/16	Jul 95	50° 36.62 N 2° 10.888W	Geoff Drury	19.5 to 22.5m	Shelly gravel with low reefs	CR.MCR.EcCr.FaAlCr
02/014	Jul 02	50° 36.393 N 2° 11.004W	Chris Dunkerly	18.4 to 20.4m	Kimmeridge shale ledge	CR.HCR.XFa.ByErSp.Eun
99/19	Jul 99	50° 36.768 N 2° 11.007W	Jim Burt	11.2 to 14.2m	Rocky outcrops with rippled sand/shell	IR.HIR.KFaR.FoR
99/19	Jul 99	50° 36.768 N 2° 11.007W	Jim Burt	11.2 to 14.2m	Rocky outcrops with rippled sand/shell	SS.SMx.IMx
99/20	Jul 99	50° 36.812 N 2° 11.026W	Paul Gilliland	14.3	Boulders amongst sand with silt	SS.SMx.IMx
99/20	Jul 99	50° 36.812 N 2° 11.026W	Paul Gilliland	14.3	Boulders amongst sand with silt	IR.HIR.KFaR.FoR
95/10	Jul 95	50° 36.7 N 2° 11.044W	Peter Byfield	14.3 to 17.3m	Coarse shelly sand - Burrowing seacucumbers	IR.MIR.KR.XFoR
95/10	Jul 95	50° 36.7 N 2° 11.044W	Peter Byfield	14.3 to 17.3m	Coarse shelly sand - Burrowing seacucumbers	SS.SCS.CCS.Nmix
95/08	Jul 95	50° 36.7 N 2° 11.044W	Nick Reed	17.3	Silty gravel	SS.SCS.CCS
95/08	Jul 95	50° 36.7 N 2° 11.044W	Nick Reed	17.3	Reef	CR.HCR.XFa
97/63	Sep 97	50° 36.115 N 2° 11.08W	Heather Bell	21.9 to 23.4m	Flat bedrock with cobbles & pebbles	CR.MCR.EcCr
02/011	Jul 02	50° 36.37 N 2° 11.109W	Heather Bell	16.8 to 20.8m	Seafans on smooth rock slope	CR.HCR.XFa.ByErSp.Eun
96/25	Jun 96	50° 36.835 N 2° 11.179W	Peter Tinsley	4.5 to 13.5m	Large boulders	IR.MIR.KR.Lhyp.Ft
96/25	Jun 96	50° 36.835 N 2° 11.179W	Peter Tinsley	4.5 to 13.5m	Pebbles, sand & silt with large boulders	SS.SCS.ICS
96/25	Jun 96	50° 36.835 N 2° 11.179W	Peter Tinsley	4.5 to 13.5m	Pebbles, sand & silt with large boulders	CR.HCR.XFa
96/25	Jun 96	50° 36.835 N 2° 11.179W	Peter Tinsley	4.5 to 13.5m	Silty pebbles & dead shells	SS.SMx

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96/25	Jun 96	50° 36.835 N 2° 11.179W	Peter Tinsley	4.5 to 13.5m	Silty pebbles & dead shells	SS.SMx.IMx
01/32	Aug 01	50° 36.407 N 2° 11.278W	Gary Austin	16 to 23m	Rocky ledge	CR.HCR.XFa.ByErSp.Eun
01/32	Aug 01	50° 36.407 N 2° 11.278W	Gary Austin	16 to 23m	Rocky ledge	SS.SMx.CMx
97/66	Sep 97	50° 36.04 N 2° 11.295W	Peter Tinsley	22.4 to 23.4m	Flat bedrock covered by gravel and sand	SS.SMx.CMx
97/66	Sep 97	50° 36.04 N 2° 11.295W	Peter Tinsley	22.4 to 23.4m	Flat bedrock covered by gravel and sand	CR.MCR.EcCr
02/019	Aug 02	50° 36.162 N 2° 11.304W	Heather Bell	6.3 to 14.9m	Limestone reef with short turf and erect sponges	CR.HCR.XFa.ByErSp.Eun
02/010	Jul 02	50° 36.274 N 2° 11.365W	Susan Lloyd	18.9 to 21.9m	Rocky reef with sponges and seafan	CR.HCR.XFa.ByErSp.Eun
02/009	Jul 02	50° 36.273 N 2° 11.366W	Rosie Peters	19.2 to 23.2m	Bedrock reef	CR.HCR.XFa
02/40	Sep 02	50° 36.426 N 2° 11.41W	Peter Tinsley	17.7 to 22.7m	Angular boulders at broken edge of reef	CR.HCR.XFa.SpAnVt
02/40	Sep 02	50° 36.426 N 2° 11.41W	Peter Tinsley	17.7 to 22.7m	Smooth topped silty, rocky reef	CR.HCR.XFa.ByErSp.Eun
02/40	Sep 02	50° 36.426 N 2° 11.41W	Peter Tinsley	17.7 to 22.7m	Shelly gravel/sand waves	SS.SCS.CCS
01/30	Aug 01	50° 36.357 N 2° 11.415W	Lin Baldock	18 to 22.7m	Rocky reef with abundant Eunicella verrucosa	CR.HCR.XFa.ByErSp.Eun
01/30	Aug 01	50° 36.357 N 2° 11.415W	Lin Baldock	18 to 22.7m	Gravel & pebbles over low rock ledges	SS.SMx.CMx
01/27	Aug 01	50° 36.353 N 2° 11.418W	Seasearch	-2 to 22.3m	Sandstone rocks on coarse sand - abundant Eunicella verrucosa	CR.HCR.XFa.ByErSp.Eun
99/29	Aug 99	50° 36.892 N 2° 11.457W	Alan Grant	14.3	Rippled gravel with silt	SS.SMx.CMx
96/40	Aug 96	50° 36.922 N 2° 11.616W	Brian Kendrick	8.5 to 10.5m	Sand with pebbles	IR.MIR.KR.LhypTX.Pk
96/43	Aug 96	50° 37.008 N 2° 11.79W	Helen Sumner	13.5 to 15.5m	Sand - Hydroids	SS.SCS.CCS
96/43	Aug 96	50° 37.008 N 2° 11.79W	Helen Sumner	13.5 to 15.5m	Gravel with boulders - Short turf	SS.SCS.CCS
99/35	Aug 99	50° 37.081 N 2° 11.92W	Heather Bell	14.3 to 14.4m	Muddy sand with small ripples	SS.SSa.CMuSa
99/35	Aug 99	50° 37.081 N 2° 11.92W	Heather Bell	14.3 to 14.4m	Waved shelly gravel	SS.SCS.CCS
99/35	Aug 99	50° 37.081 N 2° 11.92W	Heather Bell	14.3 to 14.4m	Rocks lying on sand	IR.MIR.KR.XFoR
96/49	Aug 96	50° 37.048 N 2° 12.002W	Helen Frost	14.5 to 15.5m	Flat, Fine silty seabed	SS.SSa.IMuSa.AreISa
01/28	Aug 01	50° 36.428 N 2° 12.007W	Robin Plowman	19.2 to 20.8m	Rock ledges with dead maerl & shell gravel	CR.HCR.XFa.ByErSp.Eun
01/28	Aug 01	50° 36.428 N 2° 12.007W	Robin Plowman	19.2 to 20.8m	Rock ledges with dead maerl & shell gravel	SS.SCS.CCS
02/39	Sep 02	50° 36.121 N 2° 12.099W	Brian Kendrick	20.7 to 23.7m	Shell/ maerl gravel & silty sand on reef top	SS.SCS.CCS
02/39	Sep 02	50° 36.121 N 2° 12.099W	Brian Kendrick	20.7 to 23.7m	Boulder reef topped with coarse sand	CR.HCR.XFa.ByErSp
03/003	Aug 03	50° 36.697 N 2° 12.171W	Robin Plowman	16.5 to 17.8m	Shell gravel	SS.SCS.CCS
03/003	Aug 03	50° 36.697 N 2° 12.171W	Robin Plowman	16.5 to 17.8m	Rocky reef	CR.HCR.XFa
02/008	Jul 02	50° 36.407 N 2° 12.213W	Rosie Peters	18.8 to 20.9m	Mixed ground with few small rocks	SS.SCS.CCS
96/44	Aug 96	50° 37.093 N 2° 12.235W	Chris Code	13.4 to 14.4m	Flat coarse sand	SS.SCS.ICS
96/44	Aug 96	50° 37.093 N 2° 12.235W	Chris Code	13.4 to 14.4m	Flat coarse sand	SS.SCS.CCS.Nmix
02/018	Aug 02	50° 36.822 N 2° 12.402W	Peter Tinsley	17.6 to 18.6m	Wreckage	CR.FCR.FouFa

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96/39	Aug 96	50° 37.101 N 2° 12.524W	Chris Wood	12.4	Coarse silty sand	SS.SMx.IMx
96/48	Aug 96	50° 36.596 N 2° 12.721W	Carol Puddephatt	12.3	Gravel - Mixed fauna	IR.HIR.KFaR.FoR
99/39	Aug 99	50° 36.163 N 2° 12.969W	Heather Bell	20 to 21m	Flat bottom with broken shells/gravel	SS.SCS.CCS.Nmix
99/40	Aug 99	50° 35.912 N 2° 13.117W	Peter Tinsley	23.6	Flat coarse sand	SS.SCS.CCS

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04/41	Jun 04	50° 36.6 N 1° 44.1W	Derek White	23.7 to 26.7m	Wreckage on gravel seabed	CR.FCR.FouFa.AdigMsen
98/07	May 98	50° 39.627 N 1° 46.672W	Lin Baldock	16.6 to 17.7m	Fine sand - Barren	SS.SSa.CFiSa
98/07	May 98	50° 39.627 N 1° 46.672W	Lin Baldock	16.6 to 17.7m	Steel wreckage	CR.FCR.FouFa.AdigMsen
04/042	Jun 04	50° 36.965 N 1° 48.747W	Cassian Edwards	18 to 24.9m	Broken wreckage	CR.FCR.FouFa.AdigMsen
04/042	Jun 04	50° 36.965 N 1° 48.747W	Cassian Edwards	18 to 24.9m	Gravel with Crepidula	SS.SMx.IMx.CreAsAn
01/009	Aug 01	50° 36.345 N 1° 51.709W	Emmy Kelly	21.5 to 26m	Sand with isolated boulders	CR.HCR.XFa.SpNemAdia
01/009	Aug 01	50° 36.345 N 1° 51.709W	Emmy Kelly	21.5 to 26m	Sand with isolated boulders	SS.SCS.CCS
01/19	Aug 01	50° 36.352 N 1° 51.779W	Gary Austin	23.2 to 26.2m	Clean rippled sand with rocks	SS.SCS.CCS
01/19	Aug 01	50° 36.352 N 1° 51.779W	Gary Austin	23.2 to 26.2m	Clean rippled sand with rocks	SS.SMx.CMx.FluHyd
01/20	Aug 01	50° 36.376 N 1° 51.791W	Julie Hatcher	25.2 to 26.5m	Waved sand with occasional rocks	SS.SCS.CCS
01/20	Aug 01	50° 36.376 N 1° 51.791W	Julie Hatcher	25.2 to 26.5m	Waved sand with occasional rocks	CR.HCR.XFa.SpNemAdia
98/13	May 98	50° 36.079 N 1° 52.122W	Jane Lilley	18.6 to 24.6m	Cobbles and boulders	CR.HCR.XFa.FluCoAs.X
98/13	May 98	50° 36.079 N 1° 52.122W	Jane Lilley	18.6 to 24.6m	Coarse sand and gravel - Barren	SS.SCS.CCS
98/11	May 98	50° 36.08 N 1° 52.122W	Emmy Kelly	21 to 25.3m	Clean gravel/coarse sand	SS.SCS.CCS
98/11	May 98	50° 36.08 N 1° 52.122W	Emmy Kelly	21 to 25.3m	Large boulders	CR.HCR.XFa.FluCoAs.X
96/13	May 96	50° 38.427 N 1° 52.32W	Brian Kendrick	15.6 to 17.6m	Silt, mud & fine sand	SS.SMx.IMx.CreAsAn
99/46	Sep 99	50° 38.237 N 1° 53.347W	Brian Kendrick	15.8 to 16.8m	Flat mud seabed with slipper limpets	SS.SMx.IMx.CreAsAn
00.027	Jun 00	50° 38.442 N 1° 53.494W	Jenny Mallinson	10.5 to 13.5m	Flat gravel seabed with few small stones	SS.SMx.CMx.ClloMx.Nem
00/030	Jun 00	50° 38.369 N 1° 53.614W	Rosie Peters	14.6	Loose stones, shells and dead maerl with Crepidula	SS.SMx.CMx
98/72	Sep 98	50° 36.759 N 1° 53.95W	Ian Alexander	22 to 23m	Undulating sand/gravel with 40% Sabellaria	SS.SBR.PoR.SspiMx
98/73	Sep 98	50° 36.777 N 1° 53.974W	Peter Tinsley	13.3 to 14.3m	Flat rock seabed with some silty gravel	IR.HIR.KFaR.FoR
98/75	Sep 98	50° 36.777 N 1° 53.974W	Peter Tinsley	23.1 to 24.1m	Sabellaria reef on clean sand/shell gravel	SS.SBR.PoR.SspiMx
99/001	Jun 99	50° 36.639 N 1° 53.98W	Jenny Mallinson		Sabellaria bed	SS.SBR.PoR.SspiMx
99/001	Jun 99	50° 36.639 N 1° 53.98W	Jenny Mallinson		Sabellaria bed	SS.SCS.CCS.Nmix
00/016	Jun 00	50° 38.012 N 1° 53.99W	Jenni Flemming	16.4 to 16.9m	Bedrock with thin covering of coarse gravel	CR.MCR
01/001	May 01	50° 36.666 N 1° 54.041W	Jenni Flemming	23.5 to 24.5m	Sand and roken shell	SS.SBR.PoR.SspiMx
00/015	Jun 00	50° 37.666 N 1° 54.066W	Emmy Kelly	16.9	Flat maerl gravel with occ stones	SS.SMx.CMx.ClloMx.Nem
01/002	May 01	50° 36.481 N 1° 54.081W	Carolyn Butler	21.6 to 25.2m	Coarse sand, shell fragments and empty shells	SS.SCS.CCS
01/002	May 01	50° 36.481 N 1° 54.081W	Carolyn Butler	21.6 to 25.2m	Coarse sand with shell fragments and empty shells	SS.SBR.PoR.SspiMx
01/002	May 01	50° 36.481 N 1° 54.081W	Carolyn Butler	21.6 to 25.2m	Coarse sand with shell fragments and empty shells with Sabellaria cobbles	SS.SBR.PoR.SspiMx
00/028	Jun 00	50° 38.349 N 1° 54.09W	Lin Baldock	13.5	Pebbles/small cobbles	SS.SMx.CMx.ClloMx.Nem
00/019	Jun 00	50° 37.983 N 1° 54.112W	Jenny Mallinson	15.1	Sand, shell, maerl, small stones, cobbles	SS.SMx.CMx.ClloMx.Nem

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02/026	Aug 02	50° 35.896 N 1° 54.115W	Lin Baldock	19.1 to 27.9m	Ledges/boulders with sponges, hydroids and tunicates	CR.HCR.XFa.ByErSp
02/026	Aug 02	50° 35.896 N 1° 54.115W	Lin Baldock	19.1 to 27.9m	Sand scoured bedrock with mussels	CR.MCR.CMus
02/026	Aug 02	50° 35.896 N 1° 54.115W	Lin Baldock	19.1 to 27.9m	Gently sloping bedrock	CR.HCR.XFa.FluCoAs.Paur
01/006	Jul 01	50° 36.567 N 1° 54.14W	Keith Coombs	19.6 to 22.6m	Cobbles, gravel and low reefs with encrusting red seaweed/animal turf	CR.HCR.XFa
01/006	Jul 01	50° 36.567 N 1° 54.14W	Keith Coombs	19.6 to 22.6m	Sand/gravel	SS.SCS.CCS
01/006	Jul 01	50° 36.567 N 1° 54.14W	Keith Coombs	19.6 to 22.6m	Sabellaria “reefs”	SS.SBR.PoR.SspiMx
00/017	Jun 00	50° 37.649 N 1° 54.165W	Diana Mowbray	15.3 to 17.3m	Sponge covered pebbles on maerl gravel	SS.SMx.CMx.ClloMx.Nem
00/018	Jun 00	50° 37.649 N 1° 54.165W	Jane Lilley	13.7 to 15m	Level sediment, 80% dead maerl	SS.SMx.CMx.ClloMx.Nem
99/47	Sep 99	50° 38.434 N 1° 54.2W	Jenni Flemming	14 to 17m	Flat seabed of cobbles, shell & coarse sand	SS.SMx.IMx.CreAsAn
00/014	Jun 00	50° 38.728 N 1° 54.216W	Sue Fuller	13.2	Coarse gravel with cobbles,pebbles and broken shell	SS.SMx.IMx
00/021	Jun 00	50° 38.325 N 1° 54.225W	Gareth Gatrell	14.5	Gravel	SS.SMx.CMx.ClloMx.Nem
00/029	Jun 00	50° 37.793 N 1° 54.246W	Mike Wallis	14.5	Maerl/gravel	SS.SMx.CMx.ClloMx.Nem
00/031	Jun 00	50° 37.321 N 1° 54.265W	Brian Kendrick	16.6	Cobbles and pebbles with silty gravel and maerl	SS.SMx.CMx.ClloMx.Nem
00/022	Jun 00	50° 37.321 N 1° 54.265W	Jenny Mallinson	18.3	Mostly dead maerl gravel	SS.SMx.CMx.ClloMx.Nem
99/13	May 99	50° 39.061 N 1° 54.27W	Colin Froud	12.2 to 13.2m	Shells & coarse sand with maerl (live & dead)	SS.SMx.CMx.ClloMx
03/005	Aug 03	50° 38.368 N 1° 54.288W	Jen Bryant	14.9	maerl bed	SS.SMx.CMx.ClloMx.Nem
02/030	Aug 02	50° 35.832 N 1° 54.322W	Mike Markey	19 to 28.2m	Gently sloping bedrock	CR.HCR.XFa.FluCoAs.Paur
02/030	Aug 02	50° 35.832 N 1° 54.322W	Mike Markey	19 to 28.2m	upward facing bedrock with mussels	CR.MCR.CMus
02/030	Aug 02	50° 35.832 N 1° 54.322W	Mike Markey	19 to 28.2m	SW facing ledges to 1m high	CR.HCR.XFa.ByErSp
02/030	Aug 02	50° 35.832 N 1° 54.322W	Mike Markey	19 to 28.2m	Clean sand, occasional Sabellaria	SS.SBR.PoR.SspiMx
99/14	May 99	50° 38.932 N 1° 54.327W	Brian Kendrick	13	Silty sand seabed with maerl (live & dead) & slipper limpets	SS.SMx.IMx.CreAsAn
99/14	May 99	50° 38.932 N 1° 54.327W	Brian Kendrick	13	Silty sand seabed with maerl (live & dead) & slipper limpets	SS.SMx.CMx.ClloMx
99/12	May 99	50° 38.952 N 1° 54.357W	Peter Tinsley	12.5 to 14m	Maerl & Crepidula bed	SS.SCS.CCS.Nmix
99/12	May 99	50° 38.952 N 1° 54.357W	Peter Tinsley	12.5 to 14m	Maerl & Crepidula bed	SS.SMx.CMx.ClloMx
96/32	Jul 96	50° 38.605 N 1° 54.358W	Peter Tinsley	14.3	Coarse gravel/cobbles - Some live maerl	SS.SMp.KSwSS.LsacR.CbPb
00/020	Jun 00	50° 39.195 N 1° 54.391W	Jenny Mallinson	12.8	Dead maerl and small stones	SS.SMx.IMx
00/020	Jun 00	50° 39.195 N 1° 54.391W	Jenny Mallinson	12.8	Dead maerl and small stones	SS.SMx.IMx.CreAsAn
00/020	Jun 00	50° 39.195 N 1° 54.391W	Jenny Mallinson	12.8	Dead maerl and small stones	SS.SMx.CMx
00/012	Jun 00	50° 38.72 N 1° 54.403W	Elaine Stone	12.3	Gravel with sand and small stones	SS.SMx.IMx
00/026	Jul 00	50° 39.16 N 1° 54.418W	Emmy Kelly	11.9	Dead maerl/shells	SS.SMx.CMx
01/25	Aug 01	50° 36.199 N 1° 54.426W	Lin Baldock	16.4 to 24.4m	Rocky ledges with dense rad algae cover	CR.HCR.XFa.FluCoAs.Paur

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Ref.	*Date*	*Position*	*Recorder*	*Depth*	*Habitat*	*Biotope Code (JNCC 04.05)*
01/25	Aug 01	50° 36.199 N 1° 54.426W	Lin Baldock	16.4 to 24.4m	Flat broken bedrock with mixed sediment between	CR.HCR.XFa.FluCoAs.Paur
01/25	Aug 01	50° 36.199 N 1° 54.426W	Lin Baldock	16.4 to 24.4m	Waved coarse sediment	SS.SMx.CMx
00/034	Jun 00	50° 38.899 N 1° 54.439W	Jenny Mallinson	12.6	Maerl, sand, rock and Crepidula beds	SS.SMp.KSwSS.LsacR
00/034	Jun 00	50° 38.899 N 1° 54.439W	Jenny Mallinson	12.6	Maerl, sand, rock and Crepidula beds	SS.SMx.IMx.CreAsAn
00/034	Jun 00	50° 38.899 N 1° 54.439W	Jenny Mallinson	12.6	Maerl, sand, rock and Crepidula beds	SS.SMu.ISaMu.AmpPlon
00/034	Jun 00	50° 38.899 N 1° 54.439W	Jenny Mallinson	12.6	Maerl, sand, rock and Crepidula beds	SS.SCS.CCS.Nmix
01/23	Aug 01	50° 36.376 N 1° 54.441W	Seasearch	20.9 to 23.7m	Sand ridges	SS.SCS.CCS
01/23	Aug 01	50° 36.376 N 1° 54.441W	Seasearch	20.9 to 23.7m	Sand ridges	CR.MCR.EcCr.FaAlCr
00/032	Jun 00	50° 37.313 N 1° 54.47W	Rosie Peters	16.5	Cobbles on sand/mud	SS.SMx.CMx.ClloMx.Nem
02/016	Aug 02	50° 36.643 N 1° 54.489W	Julie Hatcher	20.1 to 23.1m	Sand with scattered Sabellaria cobbles	CR.HCR.XFa
02/016	Aug 02	50° 36.643 N 1° 54.489W	Julie Hatcher	20.1 to 23.1m	Sand with scattered Sabellaria cobbles	SS.SBR.PoR
96/36	Jul 96	50° 38.374 N 1° 54.521W	Helen Frost	12.3 to 14.3m	Cobbles with gravel	SS.SMp.KSwSS.LsacR
04/014	Aug 04	50° 37.925 N 1° 54.557W	Kate Edey	14.5	Mixed ground with seaweeds	SS.SMp.KSwSS.LsacR.CbPb
01/35	Aug 01	50° 36.249 N 1° 54.603W	Heather Bell	20 to 25m	Rocks on sand/silt with dead maerl patches	CR.HCR.XFa
01/35	Aug 01	50° 36.249 N 1° 54.603W	Heather Bell	20 to 25m	Rocks on sand/silt with dead maerl patches	SS.SMx.CMx
96/28	Jul 96	50° 38.368 N 1° 54.632W	Chris Griffiths	12.4 to 13.7m	Cobbles, gravel & sand	SS.SMp.KSwSS.LsacR.CbPb
01/33	Aug 01	50° 36.249 N 1° 54.641W	Lin Baldock	20.5 to 25.2m	Rocky reef with fissures and gullies	CR.HCR.XFa.FluCoAs
96/29	Jul 96	50° 38.356 N 1° 54.699W	Heather Bell	11.3 to 13.3m	Cobbles/gravel - Slipper limpets	SS.SMx.CMx.ClloMx.Nem
00/023	Jul 00	50° 36.788 N 1° 54.851W	Jenny Mallinson	10.5 to 11.5m	Sand and gravel, small stones, maerl	SS.SMx.CMx.ClloMx.Nem
98/70	Sep 98	50° 36.745 N 1° 54.861W	Helen Frost	23 to 23.7m	Rippled sand with Sabellaria spinulosa	SS.SBR.PoR.SspiMx
98/74	Sep 98	50° 36.728 N 1° 54.887W	Annette Little	22.2 to 23.2m	Sabellaria reefs on coarse sand	SS.SBR.PoR.SspiMx
98/74	Sep 98	50° 36.728 N 1° 54.887W	Annette Little	22.2 to 23.2m	Small rocky reef	CR
00/004	Jul 00	50° 37.539 N 1° 54.931W	Carolyn Butler	18	Fine gravel of dead maerl and rock fragments	SS.SMx.CMx.ClloMx.Nem
00/033	Jun 00	50° 37.211 N 1° 55.041W	Lin Baldock	14.6 to 15.6m	Mud and maerl with pebbles and cobbles	SS.SMx.CMx.ClloMx.Nem
00/005	Jul 00	50° 37.537 N 1° 55.043W	Lin Baldock	18	E/F amphipod beds	SS.SMu.ISaMu.AmpPlon
00/005	Jul 00	50° 37.537 N 1° 55.043W	Lin Baldock	18	G/H Maerl gravel, pebbles and cobbles	SS.SMx.CMx.ClloMx.Nem
96/33	Jul 96	50° 38.112 N 1° 55.096W	Miles Brown	9.3 to 11.3m	Cobbles on flat seabed	CR.HCR.XFa.ByErSp
96/33	Jul 96	50° 38.112 N 1° 55.096W	Miles Brown	9.3 to 11.3m	Cobbles on flat seabed	SS.SMx.IMx.CreAsAn
00/007	Jul 00	50° 36.745 N 1° 55.106W	Michelle Leslie	21	maerl (5% live)	SS.SMx.CMx.ClloMx.Nem
01/003	May 01	50° 38.205 N 1° 55.238W	Eleanor Murray	5.8 to 7.3m	Bedrock outcrops and boulders	IR.MIR.KR.LhypT.Pk
01/003	May 01	50° 38.205 N 1° 55.238W	Eleanor Murray	5.8 to 7.3m	Bedrock outcrops and boulders	CR.MCR.SfR.Pid

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Ref.	*Date*	*Position*	*Recorder*	*Depth*	*Habitat*	*Biotope Code (JNCC 04.05)*
02/031	May 02	50° 38.203 N 1° 55.244W	Jenny Mallinson	7.9 to 8.4m	Chalk rock ledge topped with red algae	CR.MCR.SfR.Pid
02/031	May 02	50° 38.203 N 1° 55.244W	Jenny Mallinson	7.9 to 8.4m	Chalk rock ledge topped with red algae	IR.MIR.KR.XFoR
97/27	May 97	50° 38.035 N 1° 55.317W	Emmy Kelly	7 to 10.2m	Gravel over chalk bedrock	IR.MIR.KR.XFoR
97/27	May 97	50° 38.035 N 1° 55.317W	Emmy Kelly	7 to 10.2m	Gravel over chalk bedrock	SS.SMx.IMx
97/27	May 97	50° 38.035 N 1° 55.317W	Emmy Kelly	7 to 10.2m	Gravel over chalk bedrock	SS.SMx.CMx.ClloMx
97/27	May 97	50° 38.035 N 1° 55.317W	Emmy Kelly	7 to 10.2m	Overhangs	CR.HCR.XFa.SpAnVt
97/26	May 97	50° 38.035 N 1° 55.317W	Graham Ackers	7.3 to 10.3m	Chalk bedrock with gullies	IR.HIR.KFaR.FoR
97/26	May 97	50° 38.035 N 1° 55.317W	Graham Ackers	7.3 to 10.3m	Fine silty gravel	SS.SCS.CCS.Nmix
04/045	Sep 04	50° 38.225 N 1° 55.333W	David Dooley	10.4 to 11.4m	Coarse sand with small boulders, some sand waves	SS.SMx.CMx.ClloMx.Nem
97/43	Aug 97	50° 38.631 N 1° 55.374W	Lin Baldock	4 to 7m	Chalk bedrock with dense mixed turf	IR.LIR
96/14	May 96	50° 40.373 N 1° 55.387W	Lin Baldock	2.5 to 4m	Limestone slabs with overhangs	IR.HIR.KSed.XKScrR
02/017	Aug 02	50° 37.565 N 1° 55.423W	Julie Hatcher	15.6 to 17m	Dead maerl/shells with cobbles and small boulders	SS.SMx.CMx.ClloMx.Nem
02/027	Aug 02	50° 37.327 N 1° 55.573W	Colin Froud	14.9 to 15.9m	Dead maerl over mud	SS.SMx.CMx.ClloMx
02/027	Aug 02	50° 37.327 N 1° 55.573W	Colin Froud	14.9 to 15.9m	Dead maerl over mud	SS.SMu.ISaMu.AmpPlon
00/008	Jul 00	50° 36.165 N 1° 55.718W	Lin Baldock	16.5 to 34.5m	Rock ledge	CR.HCR.XFa.SpAnVt
00/009	Jul 00	50° 36.165 N 1° 55.718W	Jenny Mallinson	0	Rock ledges/pavement	CR.HCR.XFa.SpAnVt
00/009	Jul 00	50° 36.165 N 1° 55.718W	Jenny Mallinson	0	Rock ledges/pavement	SS.SCS.CCS
00/008	Jul 00	50° 36.165 N 1° 55.718W	Lin Baldock	16.5 to 34.5m	Rock ledge	IR.HIR.KFaR.FoR
00/009	Jul 00	50° 36.165 N 1° 55.718W	Jenny Mallinson	0	Rock ledges/pavement	CR.HCR.XFa
00/008	Jul 00	50° 36.165 N 1° 55.718W	Lin Baldock	16.5 to 34.5m	Waved maerl gravel	SS.SCS.CCS
97/54	Sep 97	50° 38.491 N 1° 55.758W	Gaby Mowlam	3 to 5m	Eelgrass bed	SS.SSa.IFiSa
97/55	Sep 97	50° 38.491 N 1° 55.758W	David Stock	2.5 to 5.5m	Silty Sea Limpets	SS.SMx.IMx.CreAsAn
97/54	Sep 97	50° 38.491 N 1° 55.758W	Gaby Mowlam	3 to 5m	Boulders	IR.LIR
97/54	Sep 97	50° 38.491 N 1° 55.758W	Gaby Mowlam	3 to 5m	Eelgrass bed	SS.SMp.SSgr.Zmar
97/55	Sep 97	50° 38.491 N 1° 55.758W	David Stock	2.5 to 5.5m	Eelgrass beds on sand	SS.SMp.SSgr.Zmar
00/011	Jul 00	50° 36.165 N 1° 55.818W	Melanie Jennings	0	Bedrock, broken sandstone slabs	CR.HCR.XFa
00/011	Jul 00	50° 36.165 N 1° 55.818W	Melanie Jennings	0	Bedrock, broken sandstone slabs	SS.SCS.CCS
01/24	Aug 01	50° 36.18 N 1° 55.841W	Heather Bell	17.8 to 18.8m	Rocky ledges with sand & dead maerl	SS.SCS.CCS
01/24	Aug 01	50° 36.18 N 1° 55.841W	Heather Bell	17.8 to 18.8m	Rocky ledges with sand & dead maerl	CR.HCR.XFa
98/17	May 98	50° 36.805 N 1° 55.85W	Lin Baldock	13.8 to 19.3m	Firm medium/fine sand	SS.SSa.CFiSa
98/17	May 98	50° 36.805 N 1° 55.85W	Lin Baldock	13.8 to 19.3m	Amphipod beds & maerl gravel	SS.SMu.ISaMu.AmpPlon
98/17	May 98	50° 36.805 N 1° 55.85W	Lin Baldock	13.8 to 19.3m	Rocky boulders with hydroid/bryozoan turf	CR.HCR.XFa.ByErSp

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00/025	Jul 00	50° 36.689 N 1° 55.876W	Mike Wallis	17.1	Patchy Ampelisca beds on broken rock	SS.SMx.CMx
00/025	Jul 00	50° 36.689 N 1° 55.876W	Mike Wallis	17.1	Patchy Ampelisca beds on broken rock	SS.SMu.ISaMu.AmpPlon
01/22	Aug 01	50° 36.163 N 1° 55.877W	Lin Baldock	15.9 to 20.9m	Boulders on bedrock and gravel	CR.MCR.EcCr.FaAlCr
01/22	Aug 01	50° 36.163 N 1° 55.877W	Lin Baldock	15.9 to 20.9m	Flat bedrock with short turf	CR.HCR.XFa.ByErSp
01/22	Aug 01	50° 36.163 N 1° 55.877W	Lin Baldock	15.9 to 20.9m	Rock faces	CR.FCR.Cv
01/22	Aug 01	50° 36.163 N 1° 55.877W	Lin Baldock	15.9 to 20.9m	Rock faces	CR.HCR.XFa.SpAnVt
98/09	May 98	50° 36.726 N 1° 55.895W	Emmy Kelly	10.2 to 13.2m	Large boulders	CR.HCR.XFa
98/09	May 98	50° 36.726 N 1° 55.895W	Emmy Kelly	10.2 to 13.2m	Ampelisca tubes	SS.SMu.ISaMu.AmpPlon
96/15	May 96	50° 36.165 N 1° 55.908W	Lin Baldock	15.5 to 18.6m	Ridged bedrock	IR.FIR.SG.CC
96/15	May 96	50° 36.165 N 1° 55.908W	Lin Baldock	15.5 to 18.6m	Level bedrock subject to sand scour	CR.HCR.XFa
98/08	May 98	50° 37.365 N 1° 55.918W	Jane Lilley	5.4 to 9m	Chalk bedrock	IR.MIR.KR.XFoR
98/08	May 98	50° 37.365 N 1° 55.918W	Jane Lilley	5.4 to 9m	Coarse sand	SS.SMx.CMx.ClloMx
98/08	May 98	50° 37.365 N 1° 55.918W	Jane Lilley	5.4 to 9m	Chalk bedrock	IR.MIR.KR.Lhyp.Pk
98/14	May 98	50° 36.192 N 1° 55.921W	Helen Frost	16.7 to 21.7m	Vertical bedrock	CR.HCR.XFa.SpAnVt
98/14	May 98	50° 36.192 N 1° 55.921W	Helen Frost	16.7 to 21.7m	Bedrock ledge	CR.HCR.XFa
98/14	May 98	50° 36.192 N 1° 55.921W	Helen Frost	16.7 to 21.7m	Bedrock with sand	CR.HCR.XFa
01/21	Aug 01	50° 36.158 N 1° 55.921W	Gary Austin	15.9 to 22.9m	Limestone ledges banked with mearl gravel	SS.SCS.CCS
01/21	Aug 01	50° 36.158 N 1° 55.921W	Gary Austin	15.9 to 22.9m	Rock ledges - Animal turf	CR.HCR.XFa.ByErSp
04/046	Sep 04	50° 37.686 N 1° 55.928W	David Dooley	10.8 to 12.8m	Wreck of wooden fishing boat near rocky reef	SS.SSa
04/046	Sep 04	50° 37.686 N 1° 55.928W	David Dooley	10.8 to 12.8m	Wreck of wooden fishing boat near rocky reef	CR.MCR
96/38	Aug 96	50° 37.75 N 1° 55.936W	Jenny Mallinson	9 to 10m	Limestone boulders	IR.MIR.KR.XFoR
96/38	Aug 96	50° 37.75 N 1° 55.936W	Jenny Mallinson	9 to 10m	Coarse sand	SS.SCS.ICS
96/38	Aug 96	50° 37.75 N 1° 55.936W	Jenny Mallinson	9 to 10m	Sand with flat rocks	SS.SMx.IMx
98/10	May 98	50° 36.745 N 1° 55.958W	Jane Lilley	8.7 to 12.2m	Cobbles and boulders	CR.HCR.XFa
00/006	Jul 00	50° 36.662 N 1° 55.97W	Emmy Kelly	16.3	Amphipod tubes	SS.SMu.ISaMu.AmpPlon
99/41	Sep 99	50° 36.388 N 1° 55.972W	Jenni Flemming	14.9 to 16.9m	Variety of boulders, some ledges.	CR.HCR.XFa.SpAnVt
99/41	Sep 99	50° 36.388 N 1° 55.972W	Jenni Flemming	14.9 to 16.9m	Variety of boulders, some ledges.	IR.HIR.KFaR.FoR
99/41	Sep 99	50° 36.388 N 1° 55.972W	Jenni Flemming	14.9 to 16.9m	Variety of boulders, some ledges.	CR.HCR.XFa.SpNemAdia
99/41	Sep 99	50° 36.388 N 1° 55.972W	Jenni Flemming	14.9 to 16.9m	Variety of boulders, some ledges.	SS.SCS.CCS
97/53	Sep 97	50° 38.671 N 1° 55.979W	Gaby Mowlam	2.1 to 4.8m	Eelgrass bed	SS.SMp.SSgr.Zmar
97/53	Sep 97	50° 38.671 N 1° 55.979W	Gaby Mowlam	2.1 to 4.8m	Eelgrass bed	SS.SMx.IMx.CreAsAn
99/02	Apr 99	50° 36.379 N 1° 56.002W	Jenny Mallinson	13.7 to 18.5m	Large squarish boulders	IR.HIR.KFaR.FoR

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99/02	Apr 99	50° 36.379 N 1° 56.002W	Jenny Mallinson	13.7 to 18.5m	Pebbles & cobbles	SS.SCS.CCS
99/02	Apr 99	50° 36.379 N 1° 56.002W	Jenny Mallinson	13.7 to 18.5m	Flat smooth bedrock	CR.HCR.XFa.ByErSp
02/028	Aug 02	50° 35.65 N 1° 56.064W	Mike Markey	14.3 to 17.7m	Deep overhangs on a rocky reef	CR.FCR.Cv.SpCup
97/56	Sep 97	50° 38.633 N 1° 56.158W	David Stock	2.5 to 4.5m	Eelgrass bed on sand	SS.SMp.SSgr.Zmar
97/56	Sep 97	50° 38.633 N 1° 56.158W	David Stock	2.5 to 4.5m	sandy seabed	SS.SSa.IFiSa
99/42	Sep 99	50° 36.328 N 1° 56.178W	Nick Reed	10.8 to 15.8m	Series of rock ledges	IR.HIR.KFaR.FoR
99/42	Sep 99	50° 36.328 N 1° 56.178W	Nick Reed	10.8 to 15.8m	Series of rock ledges	CR.HCR.XFa.SpAnVt
99/42	Sep 99	50° 36.328 N 1° 56.178W	Nick Reed	10.8 to 15.8m	Series of rock ledges	SS.SCS.CCS
04/047	Sep 04	50° 34.52 N 1° 56.34W	David Dooley	25.2 to 28.2m	Metal wreckage	CR.FCR.FouFa.AdigMsen
95/05	Jun 95	50° 36.391 N 1° 56.354W	Robin Plowman	12 to 14m	Boulders & cliffs	CR.HCR.XFa.ByErSp
95/05	Jun 95	50° 36.391 N 1° 56.354W	Robin Plowman	12 to 14m	Boulders & cliffs	CR.HCR.XFa.SpAnVt
99/11	May 99	50° 37.065 N 1° 56.674W	Peter Tinsley	6.7 to 8.7m	Broken sandstone ledge with dense red algae cover	IR.MIR.KR.XFoR
99/11	May 99	50° 37.065 N 1° 56.674W	Peter Tinsley	6.7 to 8.7m	Silty gravel & clay outcrops	SS.SMx.CMx
01/17	Aug 01	50° 36.85 N 1° 56.696W	Seasearch	5.8 to 7.3m	Bedrock with sandy patches	IR.MIR.KR.XFoR
01/16	Aug 01	50° 36.861 N 1° 56.696W	Julie Hatcher	6.2 to 7.2m	Cobbles-boulders on gravelly sand	SS.SMp.KSwSS.LsacR.Gv
95/07	Jul 95	50° 35.888 N 1° 56.697W	Robin Plowman	10.7	Flat, fine rippled sand	SS.SSa.CFiSa
01/10	May 01	50° 35.382 N 1° 56.715W	Heather Bell	17.9 to 20.9m	Mussel beds (2% cover) on Portland stone	CR.MCR.CMus
99/17	May 99	50° 37.063 N 1° 56.748W	Brian Kendrick	3.7 to 5.7m	Turf covered bedrock & large boulders	IR.MIR.KR.XFoR
99/17	May 99	50° 37.063 N 1° 56.748W	Brian Kendrick	3.7 to 5.7m	Sandy ripples with frequent boulders	SS.SCS.ICS
01/34	Aug 01	50° 35.878 N 1° 56.753W	Seasearch	6 to 9.5m	Waved sand	SS.SSa.CFiSa
01/34	Aug 01	50° 35.878 N 1° 56.753W	Seasearch	6 to 9.5m	Waved sand	SS.SCS.CCS
01/34	Aug 01	50° 35.878 N 1° 56.753W	Seasearch	6 to 9.5m	Waved sand	IR.MIR.KR.Lhyp.Pk
99/16	May 99	50° 37.051 N 1° 56.757W	Lisa Browning	5.6 to 7.4m	Kelp topped bedrock & boulders	IR.MIR.KR.Lhyp.Pk
99/16	May 99	50° 37.051 N 1° 56.757W	Lisa Browning	5.6 to 7.4m	Large & small boulders - Algal & animal turf	IR.MIR.KR.XFoR
99/08	May 99	50° 37.057 N 1° 56.767W	Jenny Mallinson	4.5 to 8.5m	Scattered cobbles on sand & pebbles	SS.SMx.CMx.ClloMx
99/08	May 99	50° 37.057 N 1° 56.767W	Jenny Mallinson	4.5 to 8.5m	Scattered cobbles on sand & pebbles	SS.SMu.ISaMu.AmpPlon
99/08	May 99	50° 37.057 N 1° 56.767W	Jenny Mallinson	4.5 to 8.5m	Bedrock & boulders forming deep gullies	IR.MIR.KR.Lhyp.Pk
99/08	May 99	50° 37.057 N 1° 56.767W	Jenny Mallinson	4.5 to 8.5m	Piddock bored clay covered by sand waves	CR.MCR.SfR.Pid
99/03	Apr 99	50° 37.075 N 1° 56.821W	Colin Froud	3.1 to 4.1m	Kelp park in rocky area	IR.MIR.KR.Lhyp.Pk
99/18	May 99	50° 37.075 N 1° 56.821W	Kevan Cook	5.6 to 7.6m	Algae covered rocky reef/boulders	IR.MIR.KR.Lhyp.Pk
99/06	Apr 99	50° 37.075 N 1° 56.821W	Kai Chandler	4.4 to 5.2m	Coarse rippled sand	SS.SCS.ICS
99/06	Apr 99	50° 37.075 N 1° 56.821W	Kai Chandler	4.4 to 5.2m	Rocks 10-50cm diameter	IR.HIR.KSed.Sac

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99/05	Apr 99	50° 37.075 N 1° 56.821W	David Stock	5.1	Sand - Red algae	SS.SMx.IMx
99/04	Apr 99	50° 37.075 N 1° 56.821W	Colin Froud	3 to 4.3m	Rippled sand in gullies	SS.SCS.CCS
99/03	Apr 99	50° 37.075 N 1° 56.821W	Colin Froud	3.1 to 4.1m	Coarse sandy gullies	SS.SCS.CCS
99/18	May 99	50° 37.075 N 1° 56.821W	Kevan Cook	5.6 to 7.6m	Sand/broken shell seabed	SS.SMx.CMx
99/07	Apr 99	50° 37.075 N 1° 56.821W	Nicholas Davis	4.2 to 5.6m	Rocky with sandy patches in between	IR.MIR.KR.Lhyp.Pk
99/04	Apr 99	50° 37.075 N 1° 56.821W	Colin Froud	3 to 4.3m	Rocky reef with kelp & red algae	IR.MIR.KR.Lhyp.Pk
01/36	Aug 01	50° 35.903 N 1° 56.842W	Heather Bell	8 to 9m	Medium-fine sand to coarse sand with ripples	SS.SSa.CFiSa
01/36	Aug 01	50° 35.903 N 1° 56.842W	Heather Bell	8 to 9m	Medium-fine sand to coarse sand with ripples	SS.SCS.CCS
01/36	Aug 01	50° 35.903 N 1° 56.842W	Heather Bell	8 to 9m	Rocks with sand between	IR.MIR.KR.XFoR
01/13	Jul 01	50° 35.83 N 1° 56.886W	Gary Austin	6.5 to 7.5m	Rocks and sandy glades	IR.MIR.KR.Lhyp.Pk
01/14	Jul 01	50° 35.833 N 1° 56.913W	Lin Baldock	5.9 to 9.5m	Large boulders & bedrock with dense algal cover	IR.MIR.KR.XFoR
01/14	Jul 01	50° 35.833 N 1° 56.913W	Lin Baldock	5.9 to 9.5m	Boulders on clean, coarse sand	IR.HIR.KSed.ProtAhn
01/14	Jul 01	50° 35.833 N 1° 56.913W	Lin Baldock	5.9 to 9.5m	Boulders on clean, coarse sand	SS.SCS.ICS
01/14	Jul 01	50° 35.833 N 1° 56.913W	Lin Baldock	5.9 to 9.5m	Large boulders & bedrock with dense algal cover	IR.MIR.KR.Lhyp.Pk
98/12	May 98	50° 35.565 N 1° 56.918W	Jane Lilley	4.4 to 9.2m	Horizontal Limestone bedrock	IR.HIR.KSed.XKHal
97/67	Sep 97	50° 36.499 N 1° 56.947W	Gary Howard	-1.2 to 1.7m	Pier legs - brown algae/bryozoan turf	IR.FIR.IFou
97/67	Sep 97	50° 36.499 N 1° 56.947W	Gary Howard	-1.2 to 1.7m	Pebble/gravel outside of pier	IR.LIR.K.Sar
97/67	Sep 97	50° 36.499 N 1° 56.947W	Gary Howard	-1.2 to 1.7m	Pebble/coarse sand under pier	SS.SMx.IMx
01/008	Jul 01	50° 35.18 N 1° 57.02W	Gary Austin	15 to 22m	Bedrock, small gullies	CR.HCR.XFa.FluCoAs.Paur
04/043	Oct 04	50° 36.499 N 1° 57.032W	Jo Aslin	-1.6 to 1.9m	Pier legs, mixed ground seabed	IR.LIR.K.LhypLsac
04/043	Oct 04	50° 36.499 N 1° 57.032W	Jo Aslin	-1.6 to 1.9m	Pier legs, mixed ground seabed	SS.SCS.CCS
95/04	Jun 95	50° 35.204 N 1° 57.033W	Robin Plowman	13 to 14m	Plant & animal rich turf	CR.HCR.XFa
95/04	Jun 95	50° 35.204 N 1° 57.033W	Robin Plowman	13 to 14m	Mussel beds - Mussels & spider crabs	CR.MCR.CMus.CMyt
97/34	Aug 97	50° 35.165 N 1° 57.094W	Lisa Browning	17.9 to 19.9m	Bedrock with gullies - Mussel beds	CR.MCR.CMus
97/35	Aug 97	50° 35.165 N 1° 57.094W	Craig McCoy	16.3 to 21.8m	Broken maerl - Mussels	CR.MCR.CMus
97/36	Aug 97	50° 35.165 N 1° 57.094W	Peter Tinsley	0.9 to 17.9m	Mussel (Mytilus) beds & dead maerl	CR.MCR.CMus.CMyt
01/11	May 01	50° 35.191 N 1° 57.143W	Rosie Peters	17.7 to 18.2m	Uneven scoured bedrock - clumps of mussels	CR.HCR.XFa
97/41	Aug 97	50° 35.296 N 1° 57.177W	Amanda Williams	20.8	Gravel/sand/shell	SS.SMx.CMx
95/19	Aug 95	50° 35.582 N 1° 57.202W	Heather Bell	5.6 to 9.6m	Large boulders	IR.HIR.KSed.XKHal
95/20	Aug 95	50° 35.582 N 1° 57.202W	Robin Plowman	3.1 to 8.1m	Bedrock & boulders - Kelp and red algae	IR.MIR.KR.Lhyp
95/19	Aug 95	50° 35.582 N 1° 57.202W	Heather Bell	5.6 to 9.6m	Large boulders	IR.HIR.KSed.ProtAhn
00/002	May 00	50° 35.512 N 1° 57.225W	Leisje Birchenough	7.3 to 8.4m	Red algal turf/kelp park on bedrock	IR.MIR.KR.Lhyp.Pk

Durlston Marine Research Area

Ref.	*Date*	*Position*	*Recorder*	*Depth*	*Habitat*	*Biotope Code (JNCC 04.05)*
00/001	May 00	50° 35.503 N 1° 57.273W	Nicholas Davis	4.5 to 6.5m	Bedrock with kelp	IR.HIR.KSed.XKHal
00/001	May 00	50° 35.503 N 1° 57.273W	Nicholas Davis	4.5 to 6.5m	Bedrock with kelp	IR.MIR.KR.Lhyp.Pk
01/15	Jul 01	50° 35.166 N 1° 57.275W	Lin Baldock	15.8 to 22.8m	Rocky gullies with maerl gravel between	IR.HIR
01/15	Jul 01	50° 35.166 N 1° 57.275W	Lin Baldock	15.8 to 22.8m	Rock plateau -with red algae & hydroids	CR.HCR.XFa
01/15	Jul 01	50° 35.166 N 1° 57.275W	Lin Baldock	15.8 to 22.8m	Rocky gullies with maerl gravel between	CR.HCR.XFa
00/003	May 00	50° 35.503 N 1° 57.276W	Steve Trewhella	5.8 to 6.6m	Kelp forest	IR.MIR.KR.Lhyp.Ft
95/22	Aug 95	50° 35.012 N 1° 57.297W	Peter Tinsley	27.7 to 28.7m	Shell gravel/cobbles	SS.SCS.CCS
95/22	Aug 95	50° 35.012 N 1° 57.297W	Peter Tinsley	27.7 to 28.7m	Shell gravel/cobbles	CR.HCR.FaT.BalTub
95/21	Aug 95	50° 35.474 N 1° 57.372W	Brian Tait	3.9 to 8.9m	Large limestone boulders	IR.HIR.KSed.XKHal
95/21	Aug 95	50° 35.474 N 1° 57.372W	Brian Tait	3.9 to 8.9m	Large limestone boulders	IR.MIR.KR.Lhyp
96/26	Jun 96	50° 35.177 N 1° 58.025W	Peter Tinsley	16.8 to 17.8m	Bedrock/boulders with pebbles & sand	IR.HIR.KFaR.FoR
99/43	Sep 99	50° 34.677 N 1° 58.19W	Gary Austin	28.9 to 32.9m	Flat seabed with pebbles	SS.SCS.CCS
99/43	Sep 99	50° 34.677 N 1° 58.19W	Gary Austin	28.9 to 32.9m	Flat seabed with pebbles	CR.MCR.EcCr.FaAlCr
99/44	Sep 99	50° 34.835 N 1° 58.205W	Nick Reed	27.5 to 28.5m	Flat seabed with cobbles and some coarse sand	SS.SCS.CCS
99/44	Sep 99	50° 34.835 N 1° 58.205W	Nick Reed	27.5 to 28.5m	Flat seabed with cobbles and some coarse sand	CR.MCR.EcCr.FaAlCr
99/45	Sep 99	50° 35.006 N 1° 59W	Brian Kendrick	16.5 to 22.5m	Coarse barren sand	SS.SCS.CCS
99/45	Sep 99	50° 35.006 N 1° 59W	Brian Kendrick	16.5 to 22.5m	Ledges with sand between	CR.HCR.XFa
99/45	Sep 99	50° 35.006 N 1° 59W	Brian Kendrick	16.5 to 22.5m	Ledges with sand between	CR.HCR.XFa.SpAnVt
95/06	Jul 95	50° 35.312 N 1° 59.237W	Nick Reed	7.2 to 8.7m	Large boulders - Kelp forest	IR.HIR.KSed.XKHal
95/06	Jul 95	50° 35.312 N 1° 59.237W	Nick Reed	7.2 to 8.7m	Large boulders - Kelp forest	IR.MIR.KR.Lhyp.Ft
97/23	May 97	50° 35.061 N 1° 59.253W	Emmy Kelly	14.1 to 15.1m	Bedrock with shallow sand-filled gullies	IR.MIR.KR.XFoR
97/21	May 97	50° 35.065 N 1° 59.264W	Jenni Flemming	14.1 to 16.1m	Bedrock	SS.SCS.CCS.Nmix
97/21	May 97	50° 35.065 N 1° 59.264W	Jenni Flemming	14.1 to 16.1m	Bedrock	CR.HCR.XFa
97/17	May 97	50° 35.015 N 1° 59.268W	Graham Ackers	9.8 to 13.5m	Bedrock	IR.MIR.KR.XFoR
03/011	Sep 03	50° 34.964 N 1° 59.355W	Julie Hatcher	21 to 23.6m	Mixed coarse sediment	SS.SCS.CCS
99/48	Sep 99	50° 34.915 N 1° 59.553W	Jenni Flemming	20.9 to 22.9m	Shelly gravel over bedrock	SS.SCS.CCS
99/48	Sep 99	50° 34.915 N 1° 59.553W	Jenni Flemming	20.9 to 22.9m	Shelly gravel over bedrock	CR.HCR.XFa
98/16	May 98	50° 35.265 N 1° 59.918W	Helen Fletcher	0 to 7.7m	Large boulders capped by kelp	IR.MIR.KR.Lhyp.GzPk
98/16	May 98	50° 35.265 N 1° 59.918W	Helen Fletcher	0 to 7.7m	Bedrock dominated by kelp	IR.HIR.KSed.XKHal
98/71	Sep 98	50° 35.282 N 1° 59.955W	Brian Kendrick	10.3 to 11.3m	Flat bedrock	IR.HIR.KFaR.FoR
98/76	Sep 98	50° 35.285 N 2° 0.005W	Helen Frost	9.2 to 12m	Top of flat bedrock ledges - Algal turf	IR.HIR.KFaR.FoR.Dic
98/76	Sep 98	50° 35.285 N 2° 0.005W	Helen Frost	9.2 to 12m	Vertical faces of rocky ledge	CR.HCR.XFa.SpAnVt

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00/010	Jul 00	50° 35.017 N 2° 0.041W	Jenny Mallinson	15.7 to 20.4m	Flat bedrock with sand-filled gullies	IR.MIR.KR.XFoR
00/010	Jul 00	50° 35.017 N 2° 0.041W	Jenny Mallinson	15.7 to 20.4m	Rock ledge/bedrock with sand-filled gullies	CR.HCR.XFa.FluCoAs
00/010	Jul 00	50° 35.017 N 2° 0.041W	Jenny Mallinson	15.7 to 20.4m	Waved gravel with rocky outcrops	SS.SCS.CCS
00/010	Jul 00	50° 35.017 N 2° 0.041W	Jenny Mallinson	15.7 to 20.4m	Ampelisca mat	SS.SMu.ISaMu.AmpPlon
02/029	May 02	50° 35.026 N 2° 0.428W	Julie Hatcher	14 to 16m	Small boulders and cobbles	CR.HCR.XFa.ByErSp.DysAct
98/15	May 98	50° 34.985 N 2° 0.676W	Lin Baldock	14.3 to 17.6m	Level bedrock with faunal turf	CR.HCR.XFa
98/15	May 98	50° 34.985 N 2° 0.676W	Lin Baldock	14.3 to 17.6m	Level bedrock with dense algal turf	IR.HIR.KFaR.FoR
98/15	May 98	50° 34.985 N 2° 0.676W	Lin Baldock	14.3 to 17.6m	Level bedrock with faunal turf	SS.SMu.ISaMu.AmpPlon
03/012	Sep 03	50° 34.968 N 2° 0.782W	Julie Hatcher	18.4 to 19.3m	Silty rock with amphipod tubes and mixed animal/algal turf	IR.MIR.KR.XFoR
03/012	Sep 03	50° 34.968 N 2° 0.782W	Julie Hatcher	18.4 to 19.3m	Silty rock with amphipod tubes and mixed animal/algal turf	SS.SMu.ISaMu.AmpPlon
97/40	Aug 97	50° 34.718 N 2° 1.024W	Peter Tinsley	19.5 to 22.5m	Pebble/cobbles/dead mearl	CR.MCR.EcCr.UrtScr
97/38	Aug 97	50° 34.651 N 2° 1.109W	Brian Kendrick	24 to 25m	Sand - cobbles - Dead maerl	SS.SMx.CMx
97/37	Aug 97	50° 34.628 N 2° 1.178W	Craig McCoy	22.5	Coarse gravel	SS.SMx.CMx
97/39	Aug 97	50° 35.177 N 2° 1.221W	A Davies	0 to 11.3m	Cobbles & coarse sand	SS.SMx.IMx
02/025	May 02	50° 34.893 N 2° 1.807W	Julie Hatcher	6.8 to 9.8m	Bedrock, boulders and cobbles with mixed turf	SS.SCS.ICS
02/025	May 02	50° 34.893 N 2° 1.807W	Julie Hatcher	6.8 to 9.8m	Bedrock, boulders and cobbles with mixed turf	IR.HIR.KSed.XKHal
97/19	May 97	50° 34.725 N 2° 2.119W	Emmy Kelly	6 to 7m	Kelp forest	IR.MIR.KR.Lhyp.Pk
97/19	May 97	50° 34.725 N 2° 2.119W	Emmy Kelly	6 to 7m	Overhangs in bedrock	CR.HCR.XFa.SpAnVt
97/22	May 97	50° 34.725 N 2° 2.119W	Jenni Flemming	9 to 10m	Cobbles/boulders on coarse sand	SS.SMp.KSwSS
97/22	May 97	50° 34.725 N 2° 2.119W	Jenni Flemming	9 to 10m	Bedrock ledge	IR.MIR.KR.XFoR
97/15	May 97	50° 34.745 N 2° 2.169W	Graham Ackers	7.5 to 8.3m	Cobbles, shell & stone gravel, sand	IR.MIR.KR.Lhyp
97/15	May 97	50° 34.745 N 2° 2.169W	Graham Ackers	7.5 to 8.3m	Cobbles, shell & stone gravel, sand	SS.SMx.IMx
99/01	Jan 99	50° 35.534 N 2° 8.231W	Jane Lilley	19 to 22.3m	Shale bedrock with shale pebbles	CR.HCR.XFa.ByErSp.DysAct
99/01	Jan 99	50° 35.534 N 2° 8.231W	Jane Lilley	19 to 22.3m	Shale bedrock with shale pebbles	SS.SCS.CCS

Lyme Bay

Ref.	*Date*	*Position*	*Recorder*	*Depth*	*Habitat*	*Biotope Code (JNCC 04.05)*
98/43	Jul 98	50° 32.74 N 2° 7W	Charlotte Ashe	9.8 to 18.9m	Large boulders with rich mixed turf on muddy sand	CR.HCR.XFa
04/038	Jul 04	50° 33.48 N 2° 26.854W	Derek White	-1.5 to 11m	Pebbles/sand/gravel giving way to boulders	IR.HIR.KFaR.FoR
04/038	Jul 04	50° 33.48 N 2° 26.854W	Derek White	-1.5 to 11m	Pebbles/sand/gravel giving way to boulders	SS.SCS
03/014	Aug 03	50° 33.426 N 2° 26.938W	Andy Squirrell	-0.8 to 14.2m	Boulders with cobbles/pebbles	SS.SCS.ICS.SSh
03/014	Aug 03	50° 33.426 N 2° 26.938W	Andy Squirrell	-0.8 to 14.2m	Boulders with cobbles/pebbles	IR.HIR.KFaR.LhypR.Pk
98/40	Jul 98	50° 32.825 N 2° 27.181W	Ian Alexander	7.8 to 14.3m	Muddy gravel with pebbles	SS.SMx.IMx
98/40	Jul 98	50° 32.825 N 2° 27.181W	Ian Alexander	7.8 to 14.3m	Muddy gravel with pebbles	IR.HIR.KFaR.FoR
98/40	Jul 98	50° 32.825 N 2° 27.181W	Ian Alexander	7.8 to 14.3m	Horizontal metal wreckage	CR.FCR.FouFa
98/44	Jul 98	50° 32.725 N 2° 27.242W	Alan Grant	13.2	Boulder field	CR.HCR.XFa
98/44	Jul 98	50° 32.725 N 2° 27.242W	Alan Grant	13.2	Boulder field	IR.HIR.KFaR.FoR
98/39	Jul 98	50° 32.755 N 2° 27.27W	Brian Kendrick	11.2 to 14.3m	Mixed boulders/pebbles	SS.SMx.IMx
98/39	Jul 98	50° 32.755 N 2° 27.27W	Brian Kendrick	11.2 to 14.3m	Mixed boulders/pebbles	IR.HIR.KFaR.FoR
98/39	Jul 98	50° 32.755 N 2° 27.27W	Brian Kendrick	11.2 to 14.3m	Boulders and pebbles	SS.SCS.CCS
98/29	Jul 98	50° 32.16 N 2° 27.287W	Charlotte Ashe	6.5 to 13.9m	Large boulders supporting kelp forest	IR.HIR.KFaR.LhypR.Pk
98/29	Jul 98	50° 32.16 N 2° 27.287W	Charlotte Ashe	6.5 to 13.9m	Large boulders supporting kelp forest	SS.SCS.ICS
98/32	Jul 98	50° 32.135 N 2° 27.292W	Jenni Flemming	4.2 to 9.2m	Large boulders with kelp	IR.HIR.KFaR.LhypR.Ft
98/35	Jul 98	50° 32.04 N 2° 27.322W	Alan Grant	8.2 to 9.2m	Large boulders/ bedrock on gravel	CR.HCR.XFa
98/35	Jul 98	50° 32.04 N 2° 27.322W	Alan Grant	8.2 to 9.2m	Waved gravel	SS.SCS.CCS
98/35	Jul 98	50° 32.04 N 2° 27.322W	Alan Grant	8.2 to 9.2m	Large boulders/ bedrock - Kelp	IR.HIR.KFaR.LhypR.Pk
98/21	Jul 98	50° 32.475 N 2° 27.327W	Jenni Flemming	11 to 13.3m	Portland rock - Large boulders	IR.HIR.KFaR.FoR
98/21	Jul 98	50° 32.475 N 2° 27.327W	Jenni Flemming	11 to 13.3m	Portland rock - Large boulders	CR.HCR.XFa.SpAnVt
98/24	Jul 98	50° 32.575 N 2° 27.332W	Nick Boswell	11.1 to 15.1m	Large boulders	IR.HIR.KFaR.LhypR.Pk
98/24	Jul 98	50° 32.575 N 2° 27.332W	Nick Boswell	11.1 to 15.1m	Large boulders	CR.HCR.XFa.SpAnVt
98/26	Jul 98	50° 32.615 N 2° 27.392W	Ian Alexander	12.1 to 13.1m	Ship wreck on a cobble seabed	IR.HIR.KFaR.FoR
98/26	Jul 98	50° 32.615 N 2° 27.392W	Ian Alexander	12.1 to 13.1m	Ship wreck on a cobble seabed	SS.SCS.ICS
98/30	Jul 98	50° 31.645 N 2° 27.432W	Ian Alexander	14.2 to 15.7m	Boulders on gravel	CR.HCR.XFa
98/30	Jul 98	50° 31.645 N 2° 27.432W	Ian Alexander	14.2 to 15.7m	Boulders on gravel	IR.HIR.KFaR.FoR
98/30	Jul 98	50° 31.645 N 2° 27.432W	Ian Alexander	14.2 to 15.7m	Boulders on gravel	SS.SCS.CCS
98/36	Jul 98	50° 31.8 N 2° 27.457W	Jenny Mallinson	13.7 to 14.9m	Silty sand - Mussels	SS.SBR.SMus.MytSS
98/36	Jul 98	50° 31.8 N 2° 27.457W	Jenny Mallinson	13.7 to 14.9m	Boulders and bedrock - Mussels and starfish	CR.MCR.CMus.CMyt
98/34	Jul 98	50° 31.94 N 2° 27.462W	Jenny Mallinson	14.4 to 20.4m	Boulder slope	CR.HCR.XFa.SpAnVt
98/27	Jul 98	50° 32.545 N 2° 27.477W	Alan Grant	15 to 18m	Large boulders with Bryozoa and hydroids	CR.HCR.XFa.SpAnVt

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98/27	Jul 98	50° 32.545 N 2° 27.477W	Alan Grant	15 to 18m	Large boulders with Bryozoa and hydroids	CR.HCR.XFa
98/37	Jul 98	50° 32.155 N 2° 27.482W	Ian Alexander	25.8 to 26m	Boulders on cobbles/ sand	CR.HCR.XFa
98/31	Jul 98	50° 31.535 N 2° 27.512W	Jenni Flemming	21.4 to 23.4m	Boulder field	CR.HCR.XFa
98/31	Jul 98	50° 31.535 N 2° 27.512W	Jenni Flemming	21.4 to 23.4m	Gravel with boulders	SS.SCS
98/31	Jul 98	50° 31.535 N 2° 27.512W	Jenni Flemming	21.4 to 23.4m	Gravel with boulders	CR.MCR.EcCr.FaAlCr.Adig
98/33	Jul 98	50° 31.655 N 2° 27.522W	Alan Grant	19.4 to 24.4m	Large boulders on cobbles/gravel	CR.HCR.XFa.ByErSp
98/23	Jul 98	50° 31.125 N 2° 27.562W	Miles Brown	11 to 13m	Sand with boulders	IR.MIR
98/28	Jul 98	50° 31.445 N 2° 27.562W	Charlotte Ashe	21.9 to 26.7m	Boulders on mud	CR.HCR.XFa
98/25	Jul 98	50° 31.125 N 2° 27.577W	Ian Alexander	8.8 to 10.1m	Limestone bedrock	SS.SCS.ICS
98/25	Jul 98	50° 31.125 N 2° 27.577W	Ian Alexander	8.8 to 10.1m	Limestone bedrock	IR.HIR.KFaR.LhypR.Pk
04/022	May 04	50° 30.925 N 2° 27.635W	Chris Wood	11 to 27m	Large boulders	IR.HIR.KFaR.LhypR.Pk
04/023	May 04	50° 30.925 N 2° 27.635W	Alison Bessell	11 to 26m	Reef/boulders with kelp park	IR.HIR.KFaR.LhypR.Pk
03/016	Aug 03	50° 31.3 N 2° 27.65W	Tanya Ferry	10.1 to 14.1m	Bedrock with gullies	CR.MCR.CMus.CMyt
03/016	Aug 03	50° 31.3 N 2° 27.65W	Tanya Ferry	10.1 to 14.1m	Bedrock with gullies	IR.HIR.KFaR.FoR
03/016	Aug 03	50° 31.3 N 2° 27.65W	Tanya Ferry	10.1 to 14.1m	Bedrock with gullies	IR.HIR.KFaR.LhypR.Pk
04/021	May 04	50° 30.446 N 2° 27.651W	Phil Reynolds	11 to 22m	Flat mixed sediment with scattered boulders	CR.HCR.FaT.CTub.Adig
04/021	May 04	50° 30.446 N 2° 27.651W	Phil Reynolds	11 to 22m	Large boulders with red seaweed, hydroids and sponges	IR.HIR.KSed.LsacSac
98/20	Jul 98	50° 32.565 N 2° 27.657W	Alan Grant	15.2 to 18.2m	Broken bedrock and boulders - Mussels	CR.MCR.CMus.CMyt
98/22	Jul 98	50° 31.365 N 2° 27.812W	Jenni Flemming	10.2 to 12.2m	Bedrock with crevices	IR.MIR.KR.Lhyp.Pk
98/22	Jul 98	50° 31.365 N 2° 27.812W	Jenni Flemming	10.2 to 12.2m	Boulders on pebbles & broken shell	IR.MIR.KR.Lhyp.Pk
98/22	Jul 98	50° 31.365 N 2° 27.812W	Jenni Flemming	10.2 to 12.2m	Single boulder with mixed fauna	CR.MCR.CMus
04/040	Nov 04	50° 38.257 N 2° 41.985W	Sarah Lee	29.3	Fine sand with scallops an dhermit crabs	SS.SCS
97/32	Jul 97	50° 41.866 N 2° 43.773W	Jenny Mallinson	0	Sand in waves - Barren	SS.SSa.IFiSa
97/32	Jul 97	50° 41.866 N 2° 43.773W	Jenny Mallinson	0	Rock with gullies - Maja squinado abundant	IR.MIR.KR.Ldig.Pid
97/32	Jul 97	50° 41.866 N 2° 43.773W	Jenny Mallinson	0	Rock with gullies - Maja squinado abundant	CR.MCR.SfR.Pid
97/32	Jul 97	50° 41.866 N 2° 43.773W	Jenny Mallinson	0	Flat smooth algae covered rock	IR.MIR.KR.XFoR
13	Aug 04	50° 40.865 N 2° 48.15W	Lin Baldock	18.1 to 19.7m	Level, pitted bedrock with small gullies and overhangs covered by diverse faunal turf at 20m bsl.	CR.HCR.XFa.ByErSp.Eun
13	Aug 04	50° 40.865 N 2° 48.15W	Lin Baldock	18.1 to 19.7m	Edge of ledge and overhang with interesting fauna at 20-22m bsl.	CR.HCR.XFa.SpAnVt
10	Aug 04	50° 40.865 N 2° 48.15W	Angela Read	18.9 to 22.9m	Bedrock wall and sediment covered flat ledge with faunal turf at 21m bsl.	CR.HCR.XFa.ByErSp.Eun
11	Aug 04	50° 40.86 N 2° 48.15W	Caroline Bateman	17.9 to 20.9m	Sloping rocky ledge between 20 and 23m bsl with faunal turf.	CR.HCR.XFa
11	Aug 04	50° 40.86 N 2° 48.15W	Caroline Bateman	17.9 to 20.9m	Rock outcrop with rugged vertical wall and flat top dominated by faunal turf at 21m bsl.	CR.HCR.XFa.ByErSp.Eun

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12	Aug 04	50° 40.865 N 2° 48.15W	Bill Hewitt	17.9 to 20.9m	Gently sloping seabed with small ledges dominated by tall faunal turf at 21m bsl.	CR.HCR.XFa.ByErSp.Eun
12	Aug 04	50° 40.865 N 2° 48.15W	Bill Hewitt	17.9 to 20.9m	Sandstone wall and overhang 1.5m high with abundant stony corals.	CR.HCR.XFa.SpAnVt
32	Oct 04	50° 42.4 N 2° 48.18W	Deborah Stenner	5.2 to 11.2m	Large boulders between 6 and 12m bsl covered with short animal turf.	CR.HCR.XFa
33	Oct 04	50° 42.4 N 2° 48.18W	Emmy Kelly	7.2 to 10.2m	Near vertical reef between 8 and 11m bsl dominated by fauna lower down and algae higher up.	IR.HIR.KSed.Sac
32	Oct 04	50° 42.4 N 2° 48.18W	Deborah Stenner	5.2 to 11.2m	Rocky reef at 6m bsl with kelp and mussels on top.	IR.HIR.KSed.Sac
32	Oct 04	50° 42.4 N 2° 48.18W	Deborah Stenner	5.2 to 11.2m	Sandy sediment seabed at 12m bsl with apparent life inc. echinoderms and annelids.	SS.SSa.CFiSa
31	Oct 04	50° 40.59 N 2° 48.53W	Gavin Black	21 to 22m	Cobbes and pebbles at base of short wall, on silt and broken shell fragments at 25m bsl.	SS.SMx.CMx
31	Oct 04	50° 40.59 N 2° 48.53W	Gavin Black	21 to 22m	Short, vertical wall at 24m bsl with abundant faunal turf at 24m bsl.	CR.HCR.XFa.SpAnVt
31	Oct 04	50° 40.59 N 2° 48.53W	Gavin Black	21 to 22m	Sloping, north-facing rock between 24 and 24.5m bsl with abundant epifauna.	CR.HCR.XFa.ByErSp.Eun
29	Oct 04	50° 40.56 N 2° 48.91W	Lin Baldock	19.6 to 21.6m	Faunal turf on low lying bedrock ledges at 24-26m bsl	CR.HCR.XFa.ByErSp.Eun
28	Oct 04	50° 40.55 N 2° 48.91W	Deborah Stenner	20.2 to 22.2m	Low, rocky ledges covered in about 0.5cm sediment with faunal turf at 24-26m bsl	CR.HCR.XFa.ByErSp.Eun
30	Oct 04	50° 40.55 N 2° 48.91W	Fiona Ravenscroft	20.6 to 21.6m	Low rocky ledge at 24m bsl covered by faunal turf of Enicella, sponges, tunicates and bryozoans	CR.HCR.XFa.ByErSp.Eun
34	Oct 04	50° 42.4 N 2° 48.91W	Dominic Smith	6.9 to 11.1m	Stepped bedrock and boulders between 7 and 11m bsl with mussel beds and kelp.	IR.HIR.KSed.Sac
28	Oct 04	50° 40.55 N 2° 48.91W	Deborah Stenner	20.2 to 22.2m	Sediment with abundant good cover of worms tubes at 26m bsl.	SS.SSa.CMuSa
26	Oct 04	50° 40.58 N 2° 49.13W	Fiona Ravenscroft	19.6 to 23.6m	Low ridges and gullies at top of reef with very abundant sponges and hydroids at 20m bsl.	CR.HCR.XFa.ByErSp.Eun
25	Oct 04	50° 40.58 N 2° 49.13W	Deborah Stenner	17.6 to 24.1m	Rocky reef with gullies (18-24.5m bsl) with rich faunal turf.	SS.SCS.CCS
27	Oct 04	50° 40.58 N 2° 49.13W	Dominic Smith	18.7 to 22.9m	Rocky reef with gullies and faunal turf at 19-23m bsl.	CR.HCR.XFa.ByErSp.Eun
25	Oct 04	50° 40.58 N 2° 49.13W	Deborah Stenner	17.6 to 24.1m	Rocky reef with gullies (18-24.5m bsl) with rich faunal turf.	CR.HCR.XFa.ByErSp.Eun
24	Oct 04	50° 40.58 N 2° 49.13W	Gavin Black	20.6 to 24.6m	Rich rocky reef with gullies at 21m bsl and abundant large sponges and seafans.	CR.HCR.XFa.ByErSp.Eun
26	Oct 04	50° 40.58 N 2° 49.13W	Fiona Ravenscroft	19.6 to 23.6m	Slope of reef with covering of silt from 24-20m bsl with sparse fauna.	CR.HCR
04/035	Apr 04	50° 43.287 N 2° 49.305W	Tanya Ferry	1.8 to 3.8m	Boulders in shallow water with coralline algae	IR.HIR
04/036	Apr 04	50° 43.287 N 2° 49.305W	Tanya Ferry	1.8	Sand/gravel with occasional boulders	SS.SCS
04/036	Apr 04	50° 43.287 N 2° 49.305W	Tanya Ferry	1.8	Sand/gravel with occasional boulders	IR.HIR
14	Aug 04	50° 40.76 N 2° 50.14W	Chris Wood	21.6 to 24.1m	Smooth flat bedrock with faunal cover at 22.5-23m bsl	CR.HCR.XFa.ByErSp.Eun
15	Aug 04	50° 40.76 N 2° 50.14W	Vicki Billings	24.1 to 25m	Flat rocky ledges and large boulders covered by short and tall faunal turf at 25m bsl.	CR.HCR.XFa.ByErSp.Eun

Lyme Bay

Ref.	*Date*	*Position*	*Recorder*	*Depth*	*Habitat*	*Biotope Code (JNCC 04.05)*
16	Aug 04	50° 40.76 N 2° 50.14W	Lin Baldock	22	Flat, fissured, sandstone bedrock at 23m bsl with faunal turf (inc dense pink seafans).	CR.HCR.XFa.ByErSp.Eun
17	Aug 04	50° 40.76 N 2° 50.14W	Angela Read	21 to 24m	Bedrock ridge and slope with seafan cover at 22m bsl and evidence of damage on slope.	CR.HCR.XFa.ByErSp.Eun
14	Aug 04	50° 40.76 N 2° 50.14W	Chris Wood	21.6 to 24.1m	Fissured and creviced angular boulders and slabs on slope (23-25mbsl).	CR.HCR.XFa.SpAnVt
97/57	Sep 97	50° 43.296 N 2° 51.309W	Jane Lilley	4.3 to 6.3m	Large boulders - Dense red & brown algal turf	IR.MIR.KR
97/57	Sep 97	50° 43.296 N 2° 51.309W	Jane Lilley	4.3 to 6.3m	Flat shale platform - Piddocks	CR.MCR.SfR
97/59	Sep 97	50° 43.286 N 2° 51.374W	Brian Kendrick	3.3 to 5.3m	Large boulders with red & brown algae	IR.MIR.KR
97/59	Sep 97	50° 43.286 N 2° 51.374W	Brian Kendrick	3.3 to 5.3m	Flat shale bedrock - Sparse red & brown algae	CR.MCR.SfR
97/58	Sep 97	50° 43.326 N 2° 51.429W	Jenni Flemming	3.1 to 6.1m	level bedrock of shale and clay	IR.HIR.KSed.XKHal
97/58	Sep 97	50° 43.326 N 2° 51.429W	Jenni Flemming	3.1 to 6.1m	Shale/clay bedrock with sand/silt cover	CR.MCR.SfR.Pid
36	Oct 04	50° 41.43 N 2° 51.74W	Gavin Black	20.4 to 21.4m	Crevices and overhangs at base of mounds with faunal turf at 21m bsl.	CR.FCR.Cv
36	Oct 04	50° 41.43 N 2° 51.74W	Gavin Black	20.4 to 21.4m	Smooth mounds with undercuts covered by dense faunal turf at 21-22m bsl.	CR.HCR.XFa.ByErSp
35	Oct 04	50° 41.43 N 2° 51.74W	Fiona Ravenscroft	21 to 21.5m	Shallow outcrops of bedrock (0.5m high) on mixed sediment at 22m bsl with faunal turf.	CR.HCR.XFa.ByErSp
35	Oct 04	50° 41.43 N 2° 51.74W	Fiona Ravenscroft	21 to 21.5m	Shallow outcrops of bedrock (0.5m high) on mixed sediment at 22m bsl with faunal turf.	SS.SMx.CMx
36	Oct 04	50° 41.43 N 2° 51.74W	Gavin Black	20.4 to 21.4m	Mixed substrate of large cobbles, small boulders and gravel between mounds at 21m bsl.	SS.SMx.CMx
20	Oct 04	50° 40.47 N 2° 54.715W	Fiona Ravenscroft	23.3 to 24m	Mixed substrate at 26m bsl dominated by a short faunal turf, Ross coral common.	SS.SCS.CCS
20	Oct 04	50° 40.47 N 2° 54.715W	Fiona Ravenscroft	23.3 to 24m	Mixed substrate at 26m bsl dominated by a short faunal turf, Ross coral common.	CR.HCR.XFa.ByErSp
23	Oct 04	50° 40.46 N 2° 54.94W	Emmy Kelly	23.2 to 23.8m	Small boulders with faunal cover on level seabed at 25m bsl with coarse, clean sand.	CR.HCR.XFa.ByErSp
18	Oct 04	50° 40.46 N 2° 54.94W	Gavin Black	22.8	Flat seabed at 26m bsl of mixed substrate with rich tall and short epifauna.	CR.HCR.XFa.ByErSp
18	Oct 04	50° 40.46 N 2° 54.94W	Gavin Black	22.8	Clean sandy area with possible bedrock underneath at 26m bsl.	SS.SCS
23	Oct 04	50° 40.46 N 2° 54.94W	Emmy Kelly	23.2 to 23.8m	Small boulders with faunal cover on level seabed at 25m bsl with coarse, clean sand.	SS.SCS.CCS
19	Oct 04	50° 40.46 N 2° 54.94W	Deborah Stenner	21 to 24m	Short animal turf on boulders and cobbles (mixed ground) at 27m bsl with some taller species.	CR.HCR.XFa
19	Oct 04	50° 40.46 N 2° 54.94W	Deborah Stenner	21 to 24m	Short animal turf on boulders and cobbles (mixed ground) at 27m bsl with some taller species.	SS.SCS.CCS
22	Oct 04	50° 40.435 N 2° 55.04W	Darren Murray	23.1 to 24.1m	Sand, gravel and broken shell at 26m bsl with queen scallops, gobies and ross coral.	SS.SCS.CCS
22	Oct 04	50° 40.435 N 2° 55.04W	Darren Murray	23.1 to 24.1m	Boulders with dense animal turf at 25m bsl.	CR.HCR.XFa.ByErSp

Lyme Bay

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21	Oct 04	50° 40.435 N 2° 55.04W	Dominic Smith	23.4 to 24.5m	Flat seabed of small boulders, covered with short faunal turf, and coarse sand at 26m bsl.	CR.HCR.XFa.ByErSp
21	Oct 04	50° 40.435 N 2° 55.04W	Dominic Smith	23.4 to 24.5m	Flat seabed of small boulders, covered with short faunal turf, and coarse sand at 26m bsl.	SS.SCS.CCS
97/60	Sep 97	50° 42.646 N 2° 57.005W	Brian Kendrick	6 to 8.6m	Horizontal bedrock with vertical faces	CR.MCR.SfR
97/60	Sep 97	50° 42.646 N 2° 57.005W	Brian Kendrick	6 to 8.6m	Horizontal bedrock with vertical faces	IR.HIR.KSed.XKHal
7	Aug 04	50° 41.67 N 3° 1.3W	Bill Hewitt	5.9 to 9.9m	Mudstone debris at base of wall with mussel beds going to sand at 11.5m bsl.	SS.SBR.SMus.MytSS
7	Aug 04	50° 41.67 N 3° 1.3W	Bill Hewitt	5.9 to 9.9m	Rugged horizontal area (between 7.5 and 8.5m bsl) with boulders and sand and algal cover.	IR.HIR.KSed.Sac
7	Aug 04	50° 41.67 N 3° 1.3W	Bill Hewitt	5.9 to 9.9m	Rugged, 2m, north-facing wall between 8.5-11m bsl with epifaunal turf and mobile fauna.	CR.HCR.XFa
6	Aug 04	50° 41.67 N 3° 1.31W	Caroline Bateman	6.5 to 10.5m	3m high, flat-topped, rocky wall running E-W, facing north with deep fissures and algae at 8-12m bsl	IR.HIR.KSed.Sac
6	Aug 04	50° 41.67 N 3° 1.31W	Caroline Bateman	6.5 to 10.5m	3m high, flat-topped, rocky wall running E-W, facing north with deep fissures and algae at 8-12m bsl	CR.HCR.XFa
9	Aug 04	50° 39.79 N 3° 1.6W	Angela Read	19.9	Brittlestar bed at 22m bsl.	SS.SMx.CMx.OphMx
9	Aug 04	50° 39.79 N 3° 1.6W	Angela Read	19.9	Mixed substrate and boulders with epifaunal turf at 22m bsl.	SS.SMx.CMx
8	Aug 04	50° 39.763 N 3° 1.605W	Chris Wood	19.9 to 20.9m	Dense britlestar bed (Ophiothrix fragilis) on mixed ground at 22m bsl.	SS.SMx.CMx.OphMx
8	Aug 04	50° 39.763 N 3° 1.605W	Chris Wood	19.9 to 20.9m	Flat seabed of mixed ground with diverse range of epifauna at 22m bsl.	SS.SMx.CMx
8	Aug 04	50° 39.763 N 3° 1.605W	Chris Wood	19.9 to 20.9m	Patchy but dense brittlestar beds on mixed ground at 22m bsl.	SS.SMx.CMx.OphMx
3	Aug 04	50° 38.27 N 3° 2.75W	Chris Wood	19.5 to 23.5m	Rocky reef with short and tall faunal turf at 21-25m bsl.	CR.HCR.XFa.ByErSp.Eun
1	Aug 04	50° 38.27 N 3° 2.79W	Caroline Bateman	19.5 to 22.5m	Flat bedrock with tall faunal turf of seafans and bryozoans and silt cover at 21m bsl.	CR.HCR.XFa.ByErSp.Eun
1	Aug 04	50° 38.27 N 3° 2.79W	Caroline Bateman	19.5 to 22.5m	Flat rocky reef and slope between 21m and 24m bsl with tall faunal turf.	SS.SSa.CMuSa
1	Aug 04	50° 38.27 N 3° 2.79W	Caroline Bateman	19.5 to 22.5m	Flat rocky reef and slope between 21m and 24m bsl with tall faunal turf.	CR.HCR.XFa.ByErSp
1	Aug 04	50° 38.27 N 3° 2.79W	Caroline Bateman	19.5 to 22.5m	North-facing slope of steps and ledges with abundant Crisia sp, seafans and Ross coral at 21-24m bsl	CR.HCR.XFa.ByErSp.Eun
5	Aug 04	50° 38.4 N 3° 3.57W	Bill Hewitt	21.4 to 21.8m	Mudstone seabed, heavily bored, and areas of soft sediment with life apparent at 22m bsl.	CR.HCR.XFa.ByErSp.Eun
4	Aug 04	50° 38.4 N 3° 3.57W	Angela Read	21 to 22m	Flat topped mudstone reef with epifaunal turf at 22m bsl.	CR.HCR.XFa.ByErSp.Eun
2	Aug 04	50° 38.27 N 3° 3.79W	Julie Hatcher	19.5 to 21.5m	Flat, silt covered seabed with small cobbles between 21 and 22.8m bsl covered with faunal turf.	SS.SMx.CMx
2	Aug 04	50° 38.27 N 3° 3.79W	Julie Hatcher	19.5 to 21.5m	Flat, silt covered seabed with small cobbles between 21 and 22.8m bsl covered with faunal turf.	CR.HCR.XFa.ByErSp

Mupe Rocks to Portland Bill

Ref.	*Date*	*Position*	*Recorder*	*Depth*	*Habitat*	*Biotope Code (JNCC 04.05)*
99/49	Sep 99	50° 36.495 N 2° 13.92W	Colin Froud	19 to 22m	Rocky reef	CR.HCR.XFa.ByErSp.Eun
96/10	May 96	50° 36.87 N 2° 13.929W	Helen Sumner	9.5 to 11.5m	Sand/gravel with boulders	IR.HIR.KSed.XKHal
96/11	May 96	50° 36.879 N 2° 14.088W	Helen Frost	8.5 to 13.5m	Rocky ridge	IR.HIR.KSed.XKHal
96/11	May 96	50° 36.879 N 2° 14.088W	Helen Frost	8.5 to 13.5m	Rocky ridge	SS.SCS
96/07	May 96	50° 36.879 N 2° 14.184W	Jon Parsons	7.5 to 11.5m	Large boulders on mixed sediment	IR.HIR.KSed.XKHal
96/07	May 96	50° 36.879 N 2° 14.184W	Jon Parsons	7.5 to 11.5m	Pebbles and cobbles embedded in silt/gravel	SS.SCS
96/06	May 96	50° 36.868 N 2° 14.187W	Andrew Moss	9.5 to 11m	Boulders embedded in gravel	IR.HIR.KSed.XKHal
96/06	May 96	50° 36.868 N 2° 14.187W	Andrew Moss	9.5 to 11m	Boulders embedded in gravel	IR.MIR.KR.XFoR
97/04	Apr 97	50° 36.865 N 2° 14.22W	Adrian Mutlow	8.5 to 15.6m	Coarse sand	SS.SCS.CCS
97/04	Apr 97	50° 36.865 N 2° 14.22W	Adrian Mutlow	8.5 to 15.6m	Coarse sand	IR.MIR.KR.Lhyp.Pk
97/04	Apr 97	50° 36.865 N 2° 14.22W	Adrian Mutlow	8.5 to 15.6m	Coarse sand	SS.SCS.CCS.Nmix
96/12	May 96	50° 36.851 N 2° 14.291W	Chris Puddephatt	11.5 to 13.5m	Rocky reef	IR.HIR.KSed.XKHal
96/12	May 96	50° 36.851 N 2° 14.291W	Chris Puddephatt	11.5 to 13.5m	Rocky reef	IR.HIR.KFaR.FoR
96/09	May 96	50° 36.863 N 2° 14.291W	Brian Kendrick	8.7 to 12.7m	Loose rock with gravel - Algae on rocks	IR.HIR.KFaR.LhypR.Ft
96/09	May 96	50° 36.863 N 2° 14.291W	Brian Kendrick	8.7 to 12.7m	Loose rock with gravel - Algae on rocks	IR.HIR.KFaR.LhypR.Pk
96/09	May 96	50° 36.863 N 2° 14.291W	Brian Kendrick	8.7 to 12.7m	Loose rock with gravel - Algae on rocks	SS.SCS
96/09	May 96	50° 36.863 N 2° 14.291W	Brian Kendrick	8.7 to 12.7m	Loose rock with gravel - Algae on rocks	IR.HIR.KSed.XKHal
95/03	May 95	50° 36.879 N 2° 14.297W	Deanne Drury	1.3 to 13.3m	Sand and small rocks - Kelp	IR.MIR.KR.Lhyp.Ft
95/03	May 95	50° 36.879 N 2° 14.297W	Deanne Drury	1.3 to 13.3m	Sand and small rocks - Kelp	IR.HIR.KSed.XKHal
95/03	May 95	50° 36.879 N 2° 14.297W	Deanne Drury	1.3 to 13.3m	Sand and small rocks - Kelp	SS.SCS.CCS
97/06	Apr 97	50° 36.901 N 2° 14.3W	Adrian Mutlow	8.5 to 15.6m	Sand with small boulders - Red algae	SS.SMx.CMx
97/06	Apr 97	50° 36.901 N 2° 14.3W	Adrian Mutlow	8.5 to 15.6m	Coarse sand - Burrowing and mobile animals	SS.SMx.CMx
97/06	Apr 97	50° 36.901 N 2° 14.3W	Adrian Mutlow	8.5 to 15.6m	Ledges with gullies - Kelp park	IR.HIR.KSed.XKHal
97/05	Apr 97	50° 36.865 N 2° 14.32W	Andrew Page	14.7 to 15.7m	Pebbles/cobbles	SS.SMx.CMx
96/08	May 96	50° 36.865 N 2° 14.443W	Miles Brown	10.6 to 13.6m	Cobbles and rocks - Short red algal turf	SS.SCS
97/24	May 97	50° 36.922 N 2° 14.547W	Gordon Mackenzie	7.8 to 10.8m	Bedrock with large boulders - Kelp park	IR.MIR.KR.Lhyp.Pk
97/12	Apr 97	50° 37.015 N 2° 14.67W	Chris Frost	0 to 3.5m	Rocks & sand - Kelp	SS.SMp.KSwSS
97/13	May 97	50° 36.865 N 2° 14.72W	Bill Hughes	2 to 5m	Silty boulders/bedrock	IR.MIR.KR.Lhyp.Ft
97/20	May 97	50° 37.039 N 2° 14.76W	Jeremy Rowe	0 to 2.6m	Cobbles in coarse sand	IR.HIR.KSed.XKHal
97/20	May 97	50° 37.039 N 2° 14.76W	Jeremy Rowe	0 to 2.6m	Cobbles in coarse sand	SS.SMx.IMx
97/07	Apr 97	50° 36.965 N 2° 14.92W	Alan Trethawan	10.4 to 12.4m	Boulders/cobble/sand	IR.HIR.KSed.XKHal
97/07	Apr 97	50° 36.965 N 2° 14.92W	Alan Trethawan	10.4 to 12.4m	Boulders/cobble/sand	SS.SMx.CMx

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97/08	Apr 97	50° 36.965 N 2° 14.92W	Lesley James	13.3 to 15.3m	Sand/gravel with boulders	SS.SMx.IMx
97/08	Apr 97	50° 36.965 N 2° 14.92W	Lesley James	13.3 to 15.3m	Sand overlaying bedrock	SS.SCS.CCS.Nmix
97/18	May 97	50° 36.813 N 2° 15.004W	Lexie Day	17 to 15.5m	Coarse sand	SS.SMx.CMx
97/01	Apr 97	50° 36.915 N 2° 15.02W	Lynda Young	10.2 to 12.8m	Boulders on silty gravel	IR.HIR.KSed.XKHal
97/03	Apr 97	50° 36.915 N 2° 15.12W	Alan Trethawan	12.4	Boulders - Animal turf	CR
97/16	May 97	50° 36.919 N 2° 15.208W	Amanda Williams	10.8 to 12.6m	Gravelly sand	IR.HIR.KSed.XKHal
97/16	May 97	50° 36.919 N 2° 15.208W	Amanda Williams	10.8 to 12.6m	Gravelly sand	SS.SMx.IMx
03/008	Aug 03	50° 35.501 N 2° 16.102W	Chris Dunkerly	13 to 18.5m	Rocky plateau	SS.SCS.CCS
03/008	Aug 03	50° 35.501 N 2° 16.102W	Chris Dunkerly	13 to 18.5m	Rocky ledges with sponges	CR.HCR.XFa.FluCoAs.X
96/17	May 96	50° 37.128 N 2° 16.405W	Adrian Bishop	7.9 to 10.9m	Angular boulders covered in silt	CR.HCR.XFa
96/17	May 96	50° 37.128 N 2° 16.405W	Adrian Bishop	7.9 to 10.9m	Angular boulders covered in silt	IR.HIR.KFaR.LhypR.Ft
04/031	May 04	50° 37.217 N 2° 16.54W	Alison Bessell	6.2 to 13.7m	Large boulders, animal turf and red seaweeds	IR.MIR.KR.XFoR
04/031	May 04	50° 37.217 N 2° 16.54W	Alison Bessell	6.2 to 13.7m	Sand/mud with small boulders	SS.SSa.CMuSa
04/031	May 04	50° 37.217 N 2° 16.54W	Alison Bessell	6.2 to 13.7m	Rocky reef/large boulders with kelp and red seaweeds	IR.HIR.KFaR.LhypR.Pk
04/029	May 04	50° 37.214 N 2° 16.541W	Chris Wood	4.2 to 13.2m	Boulders with sand patches, red algal turf	IR.HIR.KFaR.FoR
04/030	May 04	50° 37.155 N 2° 16.659W	Chris Wood	10 to 15m	Ridged sand with occasional square boulders	SS.SCS
04/030	May 04	50° 37.155 N 2° 16.659W	Chris Wood	10 to 15m	Ridged sand with occasional square boulders	IR.HIR.KFaR.FoR
03/010	Aug 03	50° 35.028 N 2° 16.728W	Richard Mann	7.4 to 9.1m	Sand/gravel	CR.HCR.XFa
03/007	Aug 03	50° 35.013 N 2° 16.756W	Lin Baldock	17.4 to 19.2m	Sediment covered bedrock, dense turf of bryozoans	CR.HCR.XFa.FluCoAs.SmAs
03/007	Aug 03	50° 35.013 N 2° 16.756W	Lin Baldock	17.4 to 19.2m	Rocky ledge with deep overhangs - sponges and encrusting corallines	CR.FCR.Cv
03/009	Aug 03	50° 35.025 N 2° 16.795W	Peter Tinsley	17.2 to 18.1m	Flat sediment covered bedrock	CR.HCR.XFa.FluCoAs.X
96/03	Apr 96	50° 37.145 N 2° 16.85W	Julie Hatcher	1.8 to 12.8m	Very large boulders	IR.HIR.KSed.XKHal
96/03	Apr 96	50° 37.145 N 2° 16.85W	Julie Hatcher	1.8 to 12.8m	Sand with cobbles and small boulders - Red foliose algae	IR.MIR.KR.XFoR
96/03	Apr 96	50° 37.145 N 2° 16.85W	Julie Hatcher	1.8 to 12.8m	Very large boulders	IR.HIR.KFaR.LhypR.Ft
96/02	Apr 96	50° 37.2 N 2° 16.867W	Chris Frost	4.8 to 11.8m	Rocky reef with sand	IR.HIR.KFaR.LhypR.Ft
96/02	Apr 96	50° 37.2 N 2° 16.867W	Chris Frost	4.8 to 11.8m	Rocky reef with sand	IR.HIR.KFaR.LhypR.Pk
96/02	Apr 96	50° 37.2 N 2° 16.867W	Chris Frost	4.8 to 11.8m	Rocky reef with sand	IR.HIR.KSed.XKHal
96/04	Apr 96	50° 37.18 N 2° 16.93W	Brian Kendrick	13.5 to 15.5m	Bedrock with boulders on sand - Mixed turf of red algae and animal	IR.MIR.KR.XFoR
96/04	Apr 96	50° 37.18 N 2° 16.93W	Brian Kendrick	13.5 to 15.5m	Bedrock with boulders on sand - Mixed turf of red algae and animal	SS.SCS

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Ref.	*Date*	*Position*	*Recorder*	*Depth*	*Habitat*	*Biotope Code (JNCC 04.05)*
96/05	Apr 96	50° 37.18 N 2° 16.93W	Brian Kendrick	14.5 to 15.5m	Boulders	IR.MIR.KR.XFoR
96/05	Apr 96	50° 37.18 N 2° 16.93W	Brian Kendrick	14.5 to 15.5m	Boulders	SS.SCS
96/01	Apr 96	50° 37.205 N 2° 17.25W	Martin Hume	9.1 to 13.9m	Large rocks on silty gravel - Short animal turf	SS.SCS
96/01	Apr 96	50° 37.205 N 2° 17.25W	Martin Hume	9.1 to 13.9m	Large rocks on silty gravel - Short animal turf	IR.MIR.KR.XFoR
96/37	Jul 96	50° 36.888 N 2° 17.582W	Victoria Copley	17.2 to 20.2m	Rock platform/ledges with 10% live maerl	CR.HCR.XFa.ByErSp
96/37	Jul 96	50° 36.888 N 2° 17.582W	Victoria Copley	17.2 to 20.2m	Boulders/broken reef seabed	CR.HCR.XFa.ByErSp
96/37	Jul 96	50° 36.888 N 2° 17.582W	Victoria Copley	17.2 to 20.2m	Rock platform/ledges with 10% live maerl	CR.MCR.EcCr.CarSp
04/028	May 04	50° 37.16 N 2° 18.12W	Chris Wood	14 to 17m	Steeply bedded rock ridges	IR.HIR.KFaR.FoR
04/028	May 04	50° 37.16 N 2° 18.12W	Chris Wood	14 to 17m	Gravel ridges and cobbles with Neopentadactyla	SS.SCS.CCS.Nmix
04/024	May 04	50° 37.115 N 2° 18.14W	Kate Edey	13 to 17m	Sand/gravel with boulders - lots of Neopentadactyla	SS.SCS.CCS.Nmix
04/025	May 04	50° 37.149 N 2° 18.188W	Mary Restell	16 to 17.2m	Duned sand/gravel with sea cucumbers. Occasional boulders	CR.MCR
04/025	May 04	50° 37.149 N 2° 18.188W	Mary Restell	16 to 17.2m	Duned sand/gravel with sea cucumbers. Occasional boulders	SS.SCS.CCS.Nmix
04/027	May 04	50° 37.149 N 2° 18.188W	Alison Bessell	16.5 to 17.6m	Patches of reef with sponges, hydroids and anemones	IR.MIR
04/027	May 04	50° 37.149 N 2° 18.188W	Alison Bessell	16.5 to 17.6m	Coarse sand/grave/shell with Neopentadactyla	SS.SCS.CCS.Nmix
04/026	May 04	50° 37.123 N 2° 18.248W	Phil Reynolds	11 to 17m	Ridged shelly sand/dead maerl with burrowing sea cucumbers	SS.SCS.CCS.Nmix
04/026	May 04	50° 37.123 N 2° 18.248W	Phil Reynolds	11 to 17m	Jagged rocky outcrops with sponges, anemones and hydroids	IR.MIR
03/017	Jul 03	50° 37.25 N 2° 19.25W	Tanya Ferry	15.1 to 17.1m	Mixed ground with cobbles and pebbles	IR.MIR.KR.XFoR
98/38	Jul 98	50° 30.699 N 2° 21.936W	Alan Grant	9.3 to 22.3m	Clean shell gravel	SS.SCS.CCS
98/38	Jul 98	50° 30.699 N 2° 21.936W	Alan Grant	9.3 to 22.3m	Clean shell gravel	SS.SCS.ICS.SSh
98/42	Jul 98	50° 30.644 N 2° 22.111W	Ian Alexander	6.3 to 23.3m	Mobile gravel/coarse sand waved sediment	SS.SCS.CCS
98/42	Jul 98	50° 30.644 N 2° 22.111W	Ian Alexander	6.3 to 23.3m	Mobile gravel/coarse sand waved sediment	SS.SCS.ICS.SSh
98/45	Jul 98	50° 30.384 N 2° 23.416W	Brian Kendrick	16.2 to 17.5m	Sand and gravel ‘dunes’	SS.SCS.CCS
98/45	Jul 98	50° 30.384 N 2° 23.416W	Brian Kendrick	16.2 to 17.5m	Sand and gravel ‘dunes’	SS.SCS.ICS.SSh
98/41	Jul 98	50° 30.346 N 2° 23.507W	Charlotte Ashe	8.5 to 24.3m	Coarse sand/broken shells	SS.SCS.CCS
98/41	Jul 98	50° 30.346 N 2° 23.507W	Charlotte Ashe	8.5 to 24.3m	Coarse sand/broken shells	SS.SCS.ICS.SSh
98/49	Jul 98	50° 33.295 N 2° 24.646W	Peter Tinsley	20.1 to 21.1m	Silty shell gravel with boulders	SS.SMx.CMx
98/49	Jul 98	50° 33.295 N 2° 24.646W	Peter Tinsley	20.1 to 21.1m	Silty shell gravel with boulders	CR.HCR.XFa.ByErSp
98/46	Jul 98	50° 32.869 N 2° 24.682W	Alan Grant	6.9 to 7.9m	Large boulders/bedrock - Kelp forest	IR.HIR.KSed.XKScrR
98/46	Jul 98	50° 32.869 N 2° 24.682W	Alan Grant	6.9 to 7.9m	Large boulders/bedrock - Kelp forest	SS.SCS.ICS
98/51	Jul 98	50° 33.428 N 2° 24.699W	Heather Bell	18.1 to 19.1m	Shelly gravel	SS.SMx.IMx.CreAsAn
98/48	Jul 98	50° 33.122 N 2° 24.705W	Peter Tinsley	4.2 to 10.3m	Red algal turf on large boulders	IR.HIR.KFaR.FoR
98/48	Jul 98	50° 33.122 N 2° 24.705W	Peter Tinsley	4.2 to 10.3m	Dense kelp on large boulders	IR.MIR.KR.LhypT.Ft

Mupe Rocks to Portland Bill

Ref.	*Date*	*Position*	*Recorder*	*Depth*	*Habitat*	*Biotope Code (JNCC 04.05)*
98/52	Jul 98	50° 33.76 N 2° 24.851W	Ian Alexander	0 to 19.6m	Slipper limpet beds underlain by mud & silt	SS.SMx.IMx.CreAsAn
98/52	Jul 98	50° 33.76 N 2° 24.851W	Ian Alexander	0 to 19.6m	Muddy sand with some silt and shell	SS.SSa.CMuSa
98/47	Jul 98	50° 33.335 N 2° 24.911W	Heather Bell	10.3 to 12.1m	Silty gravel, cobbles, pebbles	IR.HIR.KFaR.FoR
04/033	May 04	50° 32.965 N 2° 24.921W	Mike Flavell	5.2 to 15.2m	Boul;ders/boulder pavement with Nemertesia, red algae and Esperiopsis	IR.HIR.KSed.Sac
04/032	May 04	50° 33.465 N 2° 24.921W	Chris Wood	5.2 to 12.9m	Boulders with red algae, sponges and hydroids	IR.HIR.KSed.Sac
04/032	May 04	50° 33.465 N 2° 24.921W	Chris Wood	5.2 to 12.9m	Boulders with red algae, sponges and hydroids	CR.HCR.XFa.ByErSp
04/034	May 04	50° 33.265 N 2° 24.921W	Alison Bessell	7.2 to 19.2m	Low lying bedrock reef with hydroid/bryozoan turf	CR.HCR.XFa.ByErSp
04/034	May 04	50° 33.265 N 2° 24.921W	Alison Bessell	7.2 to 19.2m	Large stepped boulders, kelp covered	IR.HIR.KSed.Sac
04/034	May 04	50° 33.265 N 2° 24.921W	Alison Bessell	7.2 to 19.2m	Large stepped boulders, kelp covered	IR.HIR.KFaR.FoR
04/033	May 04	50° 32.965 N 2° 24.921W	Mike Flavell	5.2 to 15.2m	Boul;ders/boulder pavement with Nemertesia, red algae and Esperiopsis	CR.HCR.XFa.ByErSp
98/53	Jul 98	50° 33.425 N 2° 24.946W	Ian Alexander	10 to 12.8m	Cobbles & small boulders on pebbles & gravel	IR.MIR.KR.XFoR
98/53	Jul 98	50° 33.425 N 2° 24.946W	Ian Alexander	10 to 12.8m	Cobbles & small boulders on pebbles & gravel	CR.HCR.XFa
98/53	Jul 98	50° 33.425 N 2° 24.946W	Ian Alexander	10 to 12.8m	Cobbles & small boulders on pebbles & gravel	SS.SMx.CMx
96/16	May 96	50° 33.703 N 2° 25.077W	Brian Kendrick	8.5 to 10.5m	Boulders on shingle	IR.HIR.KFaR.FoR
98/55	Jul 98	50° 32.315 N 2° 25.131W	Alan Grant	14.5 to 16.5m	Boulders on gravel/ sand	SS.SMx.CMx
98/55	Jul 98	50° 32.315 N 2° 25.131W	Alan Grant	14.5 to 16.5m	Boulders on gravel/ sand	IR.MIR.KR.XFoR
98/61	Jul 98	50° 32.39 N 2° 25.196W	Richard Edmonds	16.5 to 17m	Coarse sand with boulders	SS.SMx.CMx
98/61	Jul 98	50° 32.39 N 2° 25.196W	Richard Edmonds	16.5 to 17m	Coarse sand with boulders	CR.HCR.XFa.ByErSp.DysAct
98/54	Jul 98	50° 32.24 N 2° 25.296W	Ian Alexander	16 to 22m	Small boulders/cobbles	SS.SMx.CMx
98/54	Jul 98	50° 32.24 N 2° 25.296W	Ian Alexander	16 to 22m	Bedrock/boulders	IR.MIR.KR.XFoR
98/60	Jul 98	50° 32.215 N 2° 25.341W	Brian Kendrick	13.5 to 14.5m	Sand, gravel, cobbles & boulders	IR.MIR.KR.XFoR
98/60	Jul 98	50° 32.215 N 2° 25.341W	Brian Kendrick	13.5 to 14.5m	Sand, gravel, cobbles & boulders	SS.SMx.IMx
98/59	Jul 98	50° 30.954 N 2° 25.631W	Richard Edmonds	21.3 to 22.3m	Rock	CR.HCR.XFa
98/59	Jul 98	50° 30.954 N 2° 25.631W	Richard Edmonds	21.3 to 22.3m	Rock	CR.HCR.XFa.ByErSp.DysAct
98/58	Jul 98	50° 30.924 N 2° 25.671W	Alan Grant	15.1 to 19.1m	Broken bedrock	CR.HCR.XFa
98/58	Jul 98	50° 30.924 N 2° 25.671W	Alan Grant	15.1 to 19.1m	Flat, even bedrock with red algae & hydroids	CR.HCR.XFa.CvirCri
98/58	Jul 98	50° 30.924 N 2° 25.671W	Alan Grant	15.1 to 19.1m	Small boulders on bedrock	IR.HIR.KFaR.FoR
98/58	Jul 98	50° 30.924 N 2° 25.671W	Alan Grant	15.1 to 19.1m	Flat, even bedrock with red algae & hydroids	CR.HCR.XFa
98/56	Jul 98	50° 30.919 N 2° 25.731W	Ian Alexander	13.5 to 15.3m	Boulders on mixed substrate	SS.SMx.CMx
98/56	Jul 98	50° 30.919 N 2° 25.731W	Ian Alexander	13.5 to 15.3m	Boulders on mixed substrate	CR.HCR.XFa.SpAnVt
98/56	Jul 98	50° 30.919 N 2° 25.731W	Ian Alexander	13.5 to 15.3m	Boulders on mixed substrate	IR.MIR.KR.XFoR

Mupe Rocks to Portland Bill

Ref.	*Date*	*Position*	*Recorder*	*Depth*	*Habitat*	*Biotope Code (JNCC 04.05)*
98/57	Jul 98	50° 31.035 N 2° 25.811W	Brian Kendrick	10.6 to 13.3m	Flat bedrock	IR.MIR.KR.Lhyp.Pk
98/57	Jul 98	50° 31.035 N 2° 25.811W	Brian Kendrick	10.6 to 13.3m	Flat bedrock covered with red & brown algae	IR.MIR.KR.Lhyp.Pk
97/50	Aug 97	50° 35.245 N 2° 26.001W	Heather Bell	12.3 to 13.3m	Flat fine mud with abundant seapens	SS.SMu.IFiMu.PhiVir
03/004	Aug 03	50° 40.935 N 1° 47.491W	Jen Bryant	15.8 to 16.8m	Flat bedrock	CR.HCR.XFa.SubCriTf
99/09	May 99	50° 40.862 N 1° 47.744W	Jane Lilley	16.5 to 17.4m	Silty reef	SS.SMu.ISaMu.AmpPlon
99/09	May 99	50° 40.862 N 1° 47.744W	Jane Lilley	16.5 to 17.4m	Silty reef	CR.HCR.XFa.SubCriTf
98/06	May 98	50° 42.121 N 1° 50.173W	Lin Baldock	12.3 to 12.8m	Muddy fine sand	SS.SMx.IMx.CreAsAn
98/06	May 98	50° 42.121 N 1° 50.173W	Lin Baldock	12.3 to 12.8m	Muddy fine sand	SS.SSa.IMuSa
00/024	Aug 00	50° 40.954 N 1° 51.303W	Jenny Mallinson	11.3 to 14.8m	Rough lumpy rock reef	SS.SSa.CFiSa
00/024	Aug 00	50° 40.954 N 1° 51.303W	Jenny Mallinson	11.3 to 14.8m	Rough lumpy rock reef	CR.MCR.EcCr.FaAlCr.Sec
01/007	May 01	50° 40.975 N 1° 51.397W	Spencer Shute	13.7 to 15.7m	Rock/small boulder with sand patches	CR.MCR.EcCr.FaAlCr.Sec
01/007	May 01	50° 40.975 N 1° 51.397W	Spencer Shute	13.7 to 15.7m	Rock/small boulder with sand patches	SS.SSa.CMuSa
98/04	May 98	50° 41.269 N 1° 52.859W	Peter Tinsley	10.9 to 13.9m	Low broken reef/cobbles on mud	CR.MCR.EcCr.FaAlCr.Sec
98/02	May 98	50° 41.269 N 1° 52.859W	Nick wade	13 to 13.2m	Rock reef with mixed faunal crust	CR.MCR.EcCr.FaAlCr.Sec
98/04	May 98	50° 41.269 N 1° 52.859W	Peter Tinsley	10.9 to 13.9m	Firm mud with burrows/tracks	SS.SSa.CMuSa
98/02	May 98	50° 41.269 N 1° 52.859W	Nick wade	13 to 13.2m	Rock reef with mixed faunal crust	SS.SMu.CSaMu
00/035	Aug 00	50° 41.125 N 1° 52.887W	Jenny Mallinson	11.6	Low, rough rocks with amphipod tubes, shelly sand and silt. All very silty.	SS.SMx.IMx.CreAsAn
00/035	Aug 00	50° 41.125 N 1° 52.887W	Jenny Mallinson	11.6	Low, rough rocks with amphipod tubes, shelly sand and silt. All very silty.	SS.SMu.ISaMu.AmpPlon
98/03	May 98	50° 42.462 N 1° 52.887W	Helen Frost	5.8 to 7.8m	Reef with thick algal turf	IR.MIR.KR.XFoR
00/035	Aug 00	50° 41.125 N 1° 52.887W	Jenny Mallinson	11.6	Low, rough rocks with amphipod tubes, shelly sand and silt. All very silty.	CR.MCR.EcCr.FaAlCr.Sec
98/05	May 98	50° 42.461 N 1° 52.903W	Peter Tinsley	6.7 to 7.7m	Crepidula bed	SS.SMx.IMx.CreAsAn
98/05	May 98	50° 42.461 N 1° 52.903W	Peter Tinsley	6.7 to 7.7m	Rugged reef with mixed rich turf	IR.MIR.KR.XFoR
97/25	May 97	50° 41.035 N 1° 53.537W	Graham Ackers	4.9 to 11.9m	Silty sand	SS.SMx.IMx.CreAsAn
97/25	May 97	50° 41.035 N 1° 53.537W	Graham Ackers	4.9 to 11.9m	Angular boulders & bedrock with low turf	IR.MIR.KR.XFoR
97/25	May 97	50° 41.035 N 1° 53.537W	Graham Ackers	4.9 to 11.9m	Angular boulders & bedrock with low turf	CR.MCR
98/01	May 98	50° 36.516 N 1° 56.892W	Michelle Walter	2.7 to 3.1m	Boulders/pebbles/sand	SS.SMx.IMx
98/01	May 98	50° 36.516 N 1° 56.892W	Michelle Walter	2.7 to 3.1m	Sandy seabed	SS.SSa.IFiSa

Portland Harbour

Ref.	*Date*	*Position*	*Recorder*	*Depth*	*Habitat*	*Biotope Code (JNCC 04.05)*
97/52	Aug 97	50° 34.675 N 2° 24.981W	Brian Kendrick	11.6 to 13.6m	Silty seabed	SS.SMx.IMx.CreAsAn
97/45	Aug 97	50° 34.575 N 2° 24.996W	Colin Froud	14.4 to 16.1m	Mud with slipper limpets	SS.SMu.IFiMu.PhiVir
97/45	Aug 97	50° 34.575 N 2° 24.996W	Colin Froud	14.4 to 16.1m	Mud with slipper limpets	SS.SMx.IMx.CreAsAn
97/47	Aug 97	50° 35.196 N 2° 25.308W	Brian Kendrick	12.4 to 14.2m	Fine silt with seapen burrows	SS.SMu.IFiMu.PhiVir
97/46	Aug 97	50° 35.495 N 2° 25.826W	Charlotte Ashe	10.4 to 11.4m	Level mud with seapens	SS.SMu.IFiMu.PhiVir
97/44	Aug 97	50° 35.529 N 2° 25.907W	Charlotte Ashe	14 to 15m	Deep mud with seapens	SS.SMu.IFiMu.PhiVir
97/51	Aug 97	50° 35.331 N 2° 25.989W	Peter Tinsley	12.4 to 14.4m	Soft fine mud with seapens	SS.SMu.IFiMu.PhiVir
97/49	Aug 97	50° 35.27 N 2° 26.016W	Annette Little	11.9 to 12.8m	Fine mud/silt - Seapens	SS.SMx.IMx.CreAsAn
97/49	Aug 97	50° 35.27 N 2° 26.016W	Annette Little	11.9 to 12.8m	Fine mud/silt - Seapens	SS.SMu.IFiMu.PhiVir
97/48	Aug 97	50° 34.495 N 2° 26.341W	Peter Tinsley	11.8 to 13.8m	Soft deep mud - Sea pens & Crepidula	SS.SMu.IFiMu.PhiVir
97/48	Aug 97	50° 34.495 N 2° 26.341W	Peter Tinsley	11.8 to 13.8m	Soft deep mud - Sea pens & Crepidula	SS.SMx.IMx.CreAsAn

Appendix ii- Survey details

Broad Habitat	Habitat complex	Biotope complex	Biotope	Sub-biotope
CR (297) **Circalittoral rock (and other hard substrata)**	CR.FCR (14) **Features of circalittoral rock**	CR.FCR.Cv (8) **Circalittoral caves and overhangs**	CR.FCR.Cv.SpCup (2) Sponges, cup corals and anthozoans on shaded or overhanging circalittoral rock	
		CR.FCR.FouFa (6) **Circalittoral fouling faunal communities**	CR.FCR.FouFa.AdigMsen (4) *Alcyonium digitatum* and *Metridium senile* on moderately wave-exposed circalittoral steel wrecks	
	CR.HCR (206) **High energy circalittoral rock**	CR.HCR.FaT (2) **Very tide-swept faunal communities**	CR.HCR.FaT.BalTub (1) *Balanus crenatus* and *Tubularia indivisa* on extremely tide-swept circalittoral rock	
			CR.HCR.FaT.CTub (1) *Tubularia indivisa* on tide-swept circalittoral rock	CR.HCR.FaT.CTub.Adig (1) *Alcyonium digitatum* with dense *Tubularia indivisa* and anemones on strongly tide-swept circalittoral rock
		CR.HCR.XFa (203) **Mixed faunal turf communities**	CR.HCR.XFa.ByErSp (74) Bryozoan turf and erect sponges on tide-swept circalittoral rock	CR.HCR.XFa.ByErSp.DysAct (6) Mixed turf of bryozoans and erect sponges with *Dysidia fragilis* and *Actinothoe sphyrodeta* on tide-swept wave-exposed circalittoral rock
				CR.HCR.XFa.ByErSp.Eun (31)
			CR.HCR.XFa.CvirCri (1) *Corynactis viridis* and a mixed turf of crisiids, *Bugula*, *Scrupocellaria*, and *Cellaria* on moderately tide-swept exposed circalittoral rock	
			CR.HCR.XFa.FluCoAs (16) *Flustra foliacea* and colonial ascidians on tide-swept moderately wave-exposed circalittoral rock	CR.HCR.XFa.FluCoAs.Paur (5) *Polyclinum aurantium* and *Flustra foliacea* on sand-scoured tide-swept moderately wave-exposed circalittoral rock
				CR.HCR.XFa.FluCoAs.SmAs (3) *Flustra foliacea,* small solitary and colonial ascidians on tide-swept circalittoral bedrock or boulders
				CR.HCR.XFa.FluCoAs.X (6) *Flustra foliacea* and colonial ascidians on tide-swept exposed circalittoral mixed substrata
			CR.HCR.XFa.SpAnVt (34) Sponges and anemones on vertical circalittoral bedrock	
			CR.HCR.XFa.SpNemAdia (10) Sparse sponges, *Nemertesia* spp. and *Alcyonidium diaphanum* on circalittoral mixed substrata	
			CR.HCR.XFa.SubCriTf (2) *Suberites* spp. with a mixed turf of crisiids and *Bugula* spp. on heavily silted moderately wave-exposed shallow circalittoral rock	
	CR.MCR (74) **Moderate energy circalittoral rock**	CR.MCR.CMus (11) **Circalittoral mussel beds on rock**	CR.MCR.CMus.CMyt (5) *Mytilus edulis* beds with hydroids and ascidians on tide-swept exposed to moderately wave-exposed circalittoral rock	
		CR.MCR.EcCr (36) **Echinoderms and crustose communities**	CR.MCR.EcCr.CarSp (1) *Caryophyllia smithii,* sponges and crustose communities on wave-exposed circalittoral rock	CR.MCR.EcCr.CarSp.Bri (1) Brittlestars overlying coralline crusts, *Parasmittina trispinosa* and *Caryophyllia smithii* on wave-exposed circalittoral rock
			CR.MCR.EcCr.FaAlCr (10) Faunal and algal crusts on exposed to moderately wave-exposed circalittoral rock	CR.MCR.EcCr.FaAlCr.Adig (3) *Alcyonium digitatum, Pomatoceros triqueter*, algal and bryozoan crusts on wave-exposed circalittoral rock
				CR.MCR.EcCr.FaAlCr.Bri (6) Brittlestars on faunal and algal encrusted exposed to moderately wave-exposed circalittoral rock
				CR.MCR.EcCr.FaAlCr.Flu (6) *Flustra foliacea* on slightly scoured silty circalittoral rock
				CR.MCR.EcCr.FaAlCr.Sec (5) *Alcyonium digitatum* with *Securiflustra securifrons* on tide-swept moderately wave-exposed circalittoral rock
			CR.MCR.EcCr.UrtScr (1) *Urticina felina* and sand-tolerant fauna on sand-scoured or covered circalittoral rock	
		CR.MCR.SfR (12) **Soft rock communities**	CR.MCR.SfR.Pid (5) Piddocks with a sparse associated fauna in sublittoral very soft chalk or clay	

Broad Habitat	Habitat complex	Biotope complex	Biotope	Sub-biotope
IR (230) **Infralittoral rock (and other hard substrata)**	IR.FIR (2) **Features of infralittoral rock**	IR.FIR.IFou (1) **Infralittoral fouling seaweed communities**		
		IR.FIR.SG (1) **Infralittoral surge gullies and caves**	IR.FIR.SG.CC (1) Coralline crusts in surge gullies and scoured infralittoral rock	
	IR.HIR (131) **High energy infralittoral rock**	IR.HIR.KFaR (68) **Kelp with cushion fauna and/or foliose red seaweeds**	IR.HIR.KFaR.FoR (50) Foliose red seaweeds on exposed lower infralittoral rock	IR.HIR.KFaR.FoR.Dic (5) Foliose red seaweeds with dense *Dictyota dichotoma* and/or *Dictyopteris membranacea* on exposed lower infralittoral rock
			IR.HIR.KFaR.LhypR (18) *Laminaria hyperborea* with dense foliose red seaweeds on exposed infralittoral rock	IR.HIR.KFaR.LhypR.Ft (7) *Laminaria hyperborea* forest with dense foliose red seaweeds on exposed upper infralittoral rock
				IR.HIR.KFaR.LhypR.Pk (11) *Laminaria hyperborea* park with dense foliose red seaweeds on exposed lower infralittoral rock
		IR.HIR.Ksed (60) **Sediment-affected or disturbed kelp and seaweed communities**	IR.HIR.KSed.LsacChoR (1) *Laminaria saccharina, Chorda filum* and dense red seaweeds on shallow unstable infralittoral boulders or cobbles	
			IR.HIR.KSed.LsacSac (1) *Laminaria saccharina* and/or *Saccorhiza polyschides* on exposed infralittoral rock	
			IR.HIR.KSed.ProtAhn (2) *Polyides rotundus, Ahnfeltia plicata* and *Chondrus crispus* on sand-covered infralittoral rock	
			IR.HIR.KSed.Sac (9) *Saccorhiza polyschides* and other opportunistic kelps on disturbed sublittoral fringe rock	
			IR.HIR.KSed.XKHal (44) *Halidrys siliquosa* and mixed kelps on tide-swept infralittoral rock with coarse sediment	
			IR.HIR.KSed.XKScrR (3) Mixed kelps with scour-tolerant and opportunistic foliose red seaweeds on scoured or sand-covered infralittoral rock	
	IR.LIR (4) **Low energy infralittoral rock**	IR.LIR.K (2) **Silted kelp communities (sheltered infralittoral rock)**	IR.LIR.K.LhypLsac (1) Mixed *Laminaria hyperborea* and *Laminaria saccharina* on sheltered infralittoral rock	
			IR.LIR.K.Sar (1) *Sargassum muticum* on shallow slightly tide-swept infralittoral mixed substrata	
	IR.MIR (93) **Moderate energy infralittoral rock**	IR.MIR.KR (87) **Kelp and red seaweeds (moderate energy infralittoral rock)**	IR.MIR.KR.Ldig (1) *Laminaria digitata* on moderately exposed sublittoral fringe rock	IR.MIR.KR.Ldig.Pid (1) *Laminaria digitata* and piddocks on sublittoral fringe soft rock
			IR.MIR.KR.Lhyp (42) Laminaria hyperborea and foliose red seaweeds on moderately exposed infralittoral rock	IR.MIR.KR.Lhyp.Ft (8) *Laminaria hyperborea* forest and foliose red seaweeds on moderately exposed upper infralittoral rock
				IR.MIR.KR.Lhyp.GzPk (1) Grazed *Laminaria hyperborea* park with coralline crusts on lower infralittoral rock
				IR.MIR.KR.Lhyp.Pk (29) *Laminaria hyperborea* park and foliose red seaweeds on moderately exposed lower infralittoral rock
			IR.MIR.KR.LhypT (2) *Laminaria hyperborea* on tide-swept, infralittoral rock	IR.MIR.KR.LhypT.Ft (1) *Laminaria hyperborea* forest, foliose red seaweeds and a diverse fauna on tide-swept upper infralittoral rock
				IR.MIR.KR.LhypT.Pk (1) *Laminaria hyperborea* park with hydroids, bryozoans and sponges on tide-swept lower infralittoral rock

			IR.MIR.KR.LhypTX (2) *Laminaria hyperborea* on tide-swept, infralittoral mixed substrata.	**IR.MIR.KR.LhypTX.Pk (2)** Mixed kelp park on lower infralittoral mixed substrata.
			IR.MIR.KR.XFoR (38) Dense foliose red seaweeds on silty moderately exposed infralittoral rock	

Broad Habitat	Habitat complex	Biotope complex	Biotope	Sub-biotope
SS (306) **Sublittoral sediment**	SS.SBR (13) **Sublittoral biogenic reefs on sediment**	SS.SBR.PoR (11) **Polychaete worm reefs (on sublittoral sediment)**	SS.SBR.PoR.SspiMx (10) *Sabellaria spinulosa* on stable circalittoral mixed sediment	
		SS.SBR.SMus (2) **Sublittoral mussel beds (on sublittoral sediment)**	SS.SBR.SMus.MytSS (2) *Mytilus edulis* beds on sublittoral sediment	
	SS.SCS (121) **Sublittoral coarse sediment (unstable cobbles and pebbles, gravels and coarse sands)**	SS.SCS.CCS (87) **Circalittoral coarse sediment**	SS.SCS.CCS.Nmix (16) *Neopentadactyla mixta* in circalittoral shell gravel or coarse sand	
		SS.SCS.ICS (20) **Infralittoral coarse sediment**	SS.SCS.ICS.SSh (5) Sparse fauna on highly mobile sublittoral shingle (cobbles and pebbles)	
	SS.SMp (12) **Sublittoral macrophyte-dominated communities on sediments**	SS.SMp.KSwSS (8) **Kelp and seaweed communities on sublittoral sediment**	SS.SMp.KSwSS.LsacR (6) *Laminaria saccharina* and red seaweeds on infralittoral sediments	SS.SMp.KSwSS.LsacR.CbPb (3) Red seaweeds and kelps on tide-swept mobile infralittoral cobbles and pebbles
				SS.SMp.KSwSS.LsacR.Gv (1) *Laminaria saccharina* and robust red algae on infralittoral gravel and pebble
		SS.SMp.SSgr (4) **Sublittoral seagrass beds**	SS.SMp.SSgr.Zmar (4) *Zostera marina/angustifolia* beds on lower shore or infralittoral clean or muddy sand	
	SS.Smu (23) **Sublittoral cohesive mud and sandy mud communities**	SS.SMu.CSaMu (1) **Circalittoral sandy mud**		
		SS.SMu.IFiMu (8) **Infralittoral fine mud**	SS.SMu.IFiMu.PhiVir (8) *Philine aperta* and *Virgularia mirabilis* in soft stable infralittoral mud	
		SS.SMu.ISaMu (14) **Infralittoral sandy mud**	SS.SMu.ISaMu.AmpPlon (14) *Ampelisca* spp., *Photis longicaudata* and other tube-building amphipods and polychaetes in infralittoral sandy mud	
	SS.SMx (116) **Sublittoral mixed sediment**	SS.SMx.CMx (69) **Circalittoral mixed sediment**	SS.SMx.CMx.ClloMx (27) *Cerianthus lloydii* and other burrowing anemones in circalittoral muddy mixed sediment	SS.SMx.CMx.ClloMx.Nem (20) *Cerianthus lloydii* with *Nemertesia* spp. and other hydroids in circalittoral muddy mixed sediment
			SS.SMx.CMx.FluHyd (1) *Flustra foliacea* and *Hydrallmania falcata* on tide-swept circalittoral mixed sediment	
			SS.SMx.CMx.OphMx (3) *Ophiothrix fragilis* and/or *Ophiocomina nigra* brittlestar beds on sublittoral mixed sediment	
		SS.SMx.IMx (45) **Infralittoral mixed sediment**	SS.SMx.IMx.CreAsAn (24) *Crepidula fornicata* with ascidians and anenomes on infralittoral coarse mixed sediment	
	SS.SSa (21) **Sublittoral sands and muddy sands**	SS.SSa.CFiSa (7) **Circalittoral fine sand**		
		SS.SSa.CMuSa (7) **Circalittoral muddy sand**		
		SS.SSa.IFiSa (4) **Infralittoral fine sand**		
		SS.SSa.IMuSa (2) **Infralittoral muddy sand**	SS.SSa.IMuSa.AreISa (1) *Arenicola marina* in infralittoral fine sand or muddy sand	