The table to the right shows how many species were recorded in each group and some of the most widel distributed species.

Sponges

A wide diversity of sponges was recorded. Particularly common or exposed, westerly facing, sites was the carrot sponge Esperiopsi fucorum (photo on inside page), which was much less common at the easterly sites visited in September 2004. The greatest diversity was on slightly silted ledges at Mussel Rock (16spp) and Westward Ledges (15spp). The nationally scarce Axinella damicorni was recorded from four different sites.

Anemones, Corals, Hydroids & **Jellyfish**

This is the most widely recorded of the animal groups with 30 species, many of which were very common.

Plumose, jewel and elegan anemones dominated many of the vertical surfaces whilst Devonshire cup-corals and dahlia anemones were found in areas with some sediment.

Three nationally scarce species were recorded, including pink sea fans, but none were common.

Molluscs

The oaten pipe hydroid, Tubularia The 25 species recorded included 14 indivisa and the smaller Tubularia different nudibranchs (sea slugs). larynx (below), were prominent at They were commonly found feeding, many sites. These species are usually especially on the hydroids. They abundant in suitable locations in the included the sponge nudibranch, spring and are an important food Doris sticta (below), which is source for many sea slugs, whose nationally scarce. numbers also peak at this time.



Crabs and Lobsters

These were not common at any of the sites though commerical species such as the edible crab and lobster were both regularly recorded in small numbers. Most surprising was the lack of spiny spider crabs, which were only seen at two sites and were recorded as rare on those occasions. This is a widespread and common species typical species. elsewhere in SW Britain.

This Seasearch survey was organised as a part of the Marine Conservation Society's Member's Dives Programme. Surveyors taking part were: Vicki Billings, Fiona Crouch, Mike Flavell, Christine Harling, Rohan Holt, Chris Pirie, Kirsten Ramsay and Chris Wood. Other divers were Sam Cook, Pete Lilley, Darren Murray and David Vinicombe. We would also like to thank Jolene and Tim Allsop. seasearch Text by Chris Wood. Photographs by Mike Flavell (MF), and Chris Wood (CW). www.seasearch.org.uk

ny Jp	Phylum		Number of species	Common Species	
ly	Porifera	Sponges	26	Shredded carrot spong Boring sponge	e Esperiopsis fucorum Cliona celata
as on as	Cnidaria	Anemones, corals, hydroids, jellyfish	30	Oaten pipe hydroid Dead men's fingers Red fingers Dahlia anemone Elegant anemone Jewel anemone Devonshire cup coral	Tubularia indivisa Alcyonium digitatum Alcyonium glomeratum Urticina felina Sagartia elegans Corynactis viridis
ch	Platyhelminthes	Flatworms	1	Devolishine cup corai	Caryophyllia smithi
rly	Annelida	Segmented worms	10		
ne	Crustacea	Crabs, lobsters, barnacles		Edible crab	Cancer pagurus
əd	Mollusca	Shells, sea slugs, cuttlefis	h 25	Velvet swimming crab Nudibranch	Necora puber Coryphella brown
nd	Bryozoa	Sea mats	10		branipora membranacea
ne	Diyuzua		10	Potato crisp bryozoan	Pentapora foliacea
nis	Echinodermata	Starfish, sea urchins,	11	Common starfish	Asterias rubens
5.	Eonnoaonnata	sea cucumbers	•••	Spiny starfish	Marthasterias glacialis
_				Common urchin	Echinus esculentus
&				Sea cucumber	Pawsonia saxicola
	Tunicata	Sea squirts	14	colonial sea squirt	Aplidium punctum
ne	Pisces	Fishes	11	Ballan wrasse	Labrus bergylta
ny				Two spot goby	Gobiusculus flavescens
1	Mammalia	Mammals (seals & dolphir	ns) 1		
nt	Algae	Seaweeds	35	Red rags	Dilsea carnosa
he				Sea beech	Delessaria sanguinea
					ed Dictyota dichotoma
re				Cuvie	Laminaria hyperborea
re	Angiognarmaa		4	Furbelows	Saccorhiza polyschides
	Angiospermae	Flowering plants	1	Eelgrass	Zostera marina
re ut		Total Species	147		

Bryozoans

There were a number of prominent species, including the potato crisp bryozoan, Pentapora foliacea, which is a typical clear water species. Fishes

The most common fishes in the study area were wrasses with all five British species recorded. The ballan wrasse was the most common.

Seaweeds and Seagrasses In situ identification of seaweeds is a specialist task and at most sites only the most prominent species were recorded. The sea beech, Delessaria sanguinea (right) was especially common. A large healthy eelgrass bed was

recorded in the Tresco Channel.

Nationally scarce and Biodiversity Action Plan species

Species Sponge	Designation	Where found				
Axinella damicornis Pink sea fan	scarce	Occasional - 4 sites				
Eunicella verrucosa	scarce/BAP	6 sites - common at 1 but rare elsewhere				
Yellow cluster anemone						
Parazoanthus axinellae	scarce	Men-a-vaur only, rare				
Scarlet and gold star coral						
Balanophyllia regia	scarce	Peninnis Head only, frequent				
Sponge nudibranch						
Doris sticta	scarce	Rare - 4 sites				
Eelgrass						
Zostera marina	BAP	Tresco Channel				
Nationally rare and scare as defined by JNCC.						

Seasearch is a volunteer underwater survey project for recreational divers to contribute to the conservation of the marine environment. Financial support for the project during 2005/6 and for the production of this summary report has been







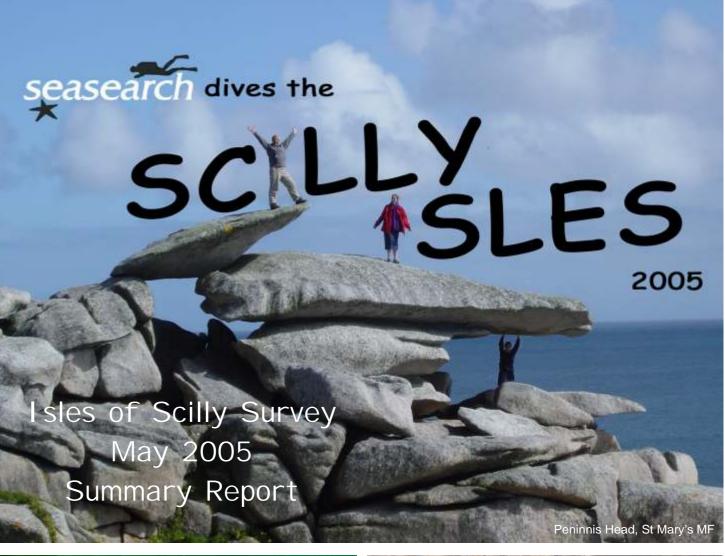
sles of Scilly Survey May 2005 Summary Report





Starfish, Sea urchins and Sea cucumbers Whilst the diversity of echinoderms was low, the spiny starfish, Marthasterias glacialis, common sea urchin, Echinus esculentus, and cottonspinner, Holothuria forskali were commonly recorded. These are all

typical south-westerly



Great High Rock (10)



This is a coastal site on the west side of Bryher. The main physical feature is a surge gully with rock sides and boulders in the bottom, leading to a boulder slope. There was kelp cover in the shallows and a variety of sponges, especially carrot sponge. Esperiopsis fucorum.

Tresco Channel (12)



The channel between Tresco and Bryher comprises sand and gravel with mixed brown, red and green seaweeds, including very large sugar kelps, L. saccharina.

On the eastern side of the channel is a dense and healthy eel grass bed with many snakelocks anemones, red -specked pimplets, Anthropleura ballii, and a variety of tube worms.

Maen-a-vaur (8) & (11) Two contrasting sites were visited, the narrowing gully between the two parts of the rock and walls and pinnacles to the west of the main rock. The steep sided rocks on the westerly site had species such as the dead mens fingers shown to the right.

4

Eastern Isles

Westward Ledge (7) & Mussel Rock (9)

Both sites have exposed RH vertical walls from shallow water to at least 30m. In the case of Mussel Rock there is then a slope of very large boulders and bedrock slabs, whilst the wall at Westward Ledge went down to 50m.

The Westward Ledge wall was dominated by oaten pipe hydroids, Tubularia indivisa, At Mussel Rock (above), the anemones were also common, sponge were recorded here.

which were being eaten by deep rocks had flat ledges with a nudibranchs, principally little silt and many cup corals and Coryphella browni. Elegant sponges. Sixteen species of

Wrecks of the Delaware (5) and Empire (6)

Both of these sites consist of flat oaten pipe hydroid, *Tubularia* rocky seabed with small indivisa.

amounts of wreckage providing The site of the Empire also some variety of topography. The had an algal turf but was Delaware site is slightly notable for the abundance of shallower and had a red algal the carrot sponge, turf with sparse kelp on the Esperiopsis fucorum. Eight shallower parts. The main piece different nudibanchs, sea of wreckage was covered in slugs, were recorded here.

(4)**Trenemene Wall**

This is a classic Scillies wall with an abundance of plumose, jewel and elegant anemones on a vertical face to about 45m depth. Hydroids, Tubularia indivisa, were also common at this time of year. Atlantic grey seals are common on the Western Rocks and we were joined by a seal in shallow water at the end of our dive.





sites surveyed in September 2004

Survey sites

The sites surveyed were limited by strong winds during the second half of the survey week, and at this time we were only able to dive sites to the north and west as the winds were from the east. However, this was the opposite of the conditions during the previous survey in 2004 and means that 21 different sites throughout the islands have been surveyed within the last year.

Peninnis Head (2)

There was a good deal of This is a coastal site with angling debris close to the vertically sided deep gullies point. directly off the point and large boulders at the base. The gullies were notable for the presence of the nationally scarce scarlet and gold cup coral. Balanophyllia regia seen left with a Devonshire cup-coral Caryophllia smithii on its right.

Lethegus Rocks - wrecks of Plympton & Hathor (3)

This site was notable mainly for the rich tall In the same habitat were many animal turf on the upturned hull of the wreck of potato crisp bryozoans, the Plympton. This was the only location Pentapora foliacea, the throughout the week where significant numbers hedgehog sponge, Polymastia of pink sea fans, Eunicella verrucosa, were boletiformis and other found (right). The wreck dates from 1909 and branching sponges. the density of sea fans was up to one colony per square metre. This appears to be an area were there is a variety of local current flows as there were a number of colonies with branches in more than one plane. The condition of the sea fans was good and, as at other sites in the islands, there was a proportion of white colonies, 31% in this case (5 out of 16 fans measured).



The gully is open to the north and narrows and shallows to the south. There was kelp forest on the upper parts with sparse kelps and a mixed algal/animal turf below.

At the southern end there were typical surge gully conditions with scoured bedrock, pink encrusting algae and a community dominated by Dendrodoa sea squirts, and Clathrina sponge.

Trinity Rock (1)

This is a rocky reef with the top at a depth of 16m and steep rocky walls to 37m. The site has a very irregular topography with numerous drops offs and pinnacles. It was notable for the presence of the football sea squirt, Diazona violacea, potato crisp bryozoans and soft corals.



The main kelp plant on the reef top was Laminaria ochroleuca (above) which is limited to south-west England. The more widely distributed L. hyperborea was also present.



