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

Sponges

A wide diversity of sponges were recorded. Prominent amongst the larger sponges were the Boring sponge and Elephant hide sponge.

A number of rarer sponges were found including the white Thymosia quernei (Inner East Rutts), the long orange fingers of Adreus fasicularis (Turbot Ground) - below: and the cup shaped Axinella infundibuliformis (Hilsea Point and South of Erme



Anemones, Corals, Hydroids & Jellvfish

This was the most diverse group of Sea mats were a very important

Gymnangium montagui occured at a many sites. number of offshore sites and was There were a number of species of common south of Soar Mill Cove.

very rare Sea fan anemone, different sea slugs were recorded and Ampthianthus dohrnii, found on a single sea fan in the sea fan 'forest' on the wreck of the Persier.

Pink sea fans were common on many of the offshore sites and abundant on the Persier. However in very similar conditions nearby, south of Wells Rock, the population was in very poor



Phylum		Number of Species	Common Species	
Porifera johnstonia	Sponges	38	Elephant hide sponge	Pacymatisma
aurantium			Golf ball sponge	Tethya
			Boring sponge	Cliona
celata			Yellow branching spong	e <i>Axinella</i>
dissimilis Cnidaria digitatum	Anemones, corals,	41	Dead men's fingers	Alcyonium
	hydroids, jellyfish		Sea beard Nemertesia	antennina and N.
ramosa			Devonshire cup coral	Caryophyllia
smithii Platyhelminthes	Flatworms			
Annelida volutacornis	Segmented worms	9	Fan worm	Bispira
Crustacea squinado	Crabs, lobsters, barnacles	12	Spiny spider crab	Maja
Mollusca punctatum	Shells, sea slugs, cuttlefis	h 23	Sea hare	Aplysia
·			Nudibranch	Limacia
clavigera Bryozoa	Sea mats	22	Finger bryozoan	Alcyonidium
diaphanum			Potato crisp bryozoan	Pentapora
foliacea Phoronida Echinodermata	Horseshoe worms Starfish, sea urchins,	1 16	Bloody henry	Henricia

Bryozoans and Sea slugs

animals recorded - 41 different component of the fauna on the offshore sites in particular. Amongst Hydroids were very common (20 the larger species, colonies of Potato species) especially the sea beards crisp bryozoans were common and Nemertesia antennina and N. ramosa. smaller species such as Cellaria and Amongst the rarer hydroids Crisia were common or abundant at Fishes

sea slug feeding on the bryozoans. Amongst uncommon anemones was Limacia clavigera was found on the Yellow cluster anemone, Flustra folicea and Acanthodoris Parazoanthus anxinellae, and the pilosa on Alcyonidium. Altogether 9

Crabs and Lobsters

Crabs and lobster were not common anywhere in the survey area. The spiny spider crab Maja squinado, was recorded most often (from 11 sites) but was never more than occasional in

The most common fishes in the study area were wrasses with four species found at most sites (Ballan and Cuckoo wrasse. Rock cook and Goldsinny). Fishes from the cod family were also common with Pollack and Poor cod seen at a number of sites. Bib and Poor cod were abundant on the wreck of the Persier. Amongst the rarer fishes were Ling (Persier), Angler fish



Starfish, Sea urchins and Sea cucumbers

All of these echinoderms were regularly reported and the spiny starfish. Marthasterias glacialis, was the only species recorded from every site. Three species of burrowing sea cucumbers

	Nationally Rare and Scarce species					
	Species	Designation	Where found			
	Sponge	rare	Turbot Ground. Occasional			
Adreus fasicularis						
	Sponge	scarce	Inner East Rutts. Rare			
Thymosia guernei						
	Sponge	scarce	S of Erme Mouth, S of Wells			
Rock						
Axinella damicornis			Burgh Island Pinnacle, Rare			
Pink sea fan		scarce/BAP	Most offshore sites. Abundant			
Eunicella verrucosa			on the Persier			
Yellow cluster anemone		scarce	Hilsea Point only			
Parazoanthus axinellae						
	Trumpet anemone	scarce	South of Erme Mouth.			
	Frequent					
	Aiptasia mutabilis					
	Sea fan anemone	rare//BAP	Persier only Rare			

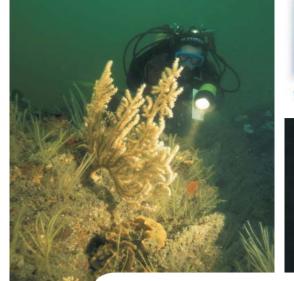
Conservation Society's Member's Dives Programme, recreational divers to contribute to the conservation of the

Surveyors taking part were: Laura Heape, Rohan Holt, Lizzie Jolley, Brod Mason, Josie Pegg, Kirsten Ramsay, Sally Sharrock, Peter Tinsley, Karen Williams and Chris Wood. We would like to thank Alan House (Kara-C) and Dave Booker (Amoco) for taking us where we wanted to go. This report has been prepared by Chris Wood. MARINE CONSERVATION



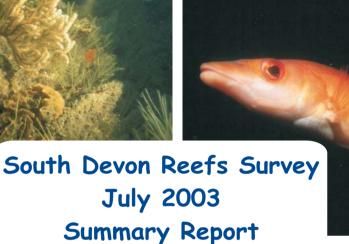
This Seasearch survey was organised as a part of the Marine Seasearch is a volunteer underwater survey project for marine environment. Financial support for the project during 2003 and for the production of this summary report has been







www.seasearch.org.uk





diver and

sea fan RH



female cuckoo

wrasse CW





Hilsea Point Rock

Hilsea Point is an unusual site in that it has many of the characteristics of the offshore reefs, but vet is very close inshore. The main feature is a deep and wide gulley which has a rich animal turf on its sides. A number of unusual species are found here such as the Yellow cluster anemone, Parazoanthus axinellae, Red sea fingers, Alcvonium glomeratum, and a sea fir. Gymnangium montagui. There is a rich kelp forest of Cuvie (Sea kelp) and Furbelows on the top of the pinnacle.

Underwater observations at this site began 50 vears ago and relatively little has changed.

Wreck of the Persier

such as the boilers.

In terms of marine life it is most notable for the dense 'forest' of Pink sea fans. There are at least 20 colonies per square metre and this is equivalent to the densest sea fan forests found elsewhere. Also present is the very rare Sea fan anemone, Amphianthus dohrnii.

The wreck has a large fish population, which in

Sites surveyed July 2003

Previously recorded sites

Erme Mouth

site on the west side of frequent. what is probably the Edwards Rock was a plant sites. This included 17

Not to be used for

species of sponge and a This group of four number of species not shallower sites are all off seen at other sites. the mouth of the River including the Trumpet Erme and relatively close anemone Aiptasia inshore. Site 3 is a rocky mutabilis, which was

original river channel, dominated site where we This has the widest recorded 35 different algal diversity of animals species, though the recorded at any of the animal life was relatively limited.

Reproduced from Admiralty chart 1613 by permission of the Controller of Her

Majesty's Stationery Office and the UK Hydrographic Office (www.ukho.gd

Wells Rock

The site at Wells Rock (Site 7) was south of the highest point and consisted of a series of rocky ridges with patches of cobbles. pebbles and coarse sand between them. There was a rich mixed algal and animal turfand



overall this site was the one with the highest diversity (89 species).

The site further south (Site 8) was chosen because a survey in 1996 had reported it to have an exceptionally high density of Pink sea fans. Unfortunately that is no longer the case. Whilst there were still many sea fans present. numbers were not unusually high and they were in notably poor condition. Many colonies were extensively fouled or overgrown by bryozoans, ascidians and other animals and some were clearly dving back from the base.

Other long lived species, such as the Potato crisp bryozoan, were present and the decline of the sea fans requires further study.

Burgh Island Pinnacle

high of almost vertical rock strata which contains many fissures and crevices. It is surrounded by flattish but equally fissured rock at a depth of 25m.

sparse red algae. However both this and the lower rock surfaces are animal dominated.

On the pinnacle itself are many Dead men's fingers, a soft coral,

but the lower flat surfaces are This is a jagged ridge of rock 4m covered in Sea beard, a hydroid. with bright orange Potato crisp bryozoans and sea squirts.

There were occasional gullies in the flatter bedrock with flat angular cobbles in their bottoms.

The top of the pinnacle at 21m is As at many sites the most common too deep for kelp but there are fishes were wrasses. Here Goldsinny, Rock cook, Ballan wrasse and Cuckoo wrasse were all frequently seen. The fissured bedrock also provided a home for conger eels.

The Persier is a cargo vessel sunk in 1945. Today it is mostly low lying metal plates with occasional recognisable pieces of wreckage,

numbers of fishes exceeds any of the reef sites in the area, though the diversity is not high. The most common species are Bib or Pouting and Poor cod. Also found are three other members of the cod family, Pollack, Ling and Cod itself.

East Rutts

The East Rutts pinnacle is a well known site and so our survey looked at two others nearby which had not been previously surveyed. The Inner Rutts pinnacle (Site 10) rises from deep water to 13m and is a known angling and potting mark. The reef to the south-east (Site 11) is a domed area of raised bedrock. Both sites provide fairly open, animal dominated, habitats in clear offshore waters.

The Inner Rutts had the greatest diversity of sponge fauna of any site, including a number of uncommon species such as Dercitus bucklandi, Thymosia guernei and Homaxinella subdola. Other common species, typical of offshore sites, were sea beards Nemertesia antennina and Nemertesia ramosa, Pink sea fans, the Orange sea squirt Stolonica socialis and the Potato crsip bryozoan Pentapora foliacea. Also present at the Inner Rutts pinnacle was the Football sea squirt Diazona violacea, which is relatively rare in the English Channel (see photo overleaf).

There were a few seaweeds on the shallower part of the Inner Rutts but no plants at all on the deeper site to the south east.

South of Bolt Tail

have rich animal turfs.

sand and also huge rocks with was of a sunfish.

vertical sides and seaweed dominated tops.

These two sites are well The animal turf at Site 14 was offshore and surrounded by dominated by hydroids and deep water. Both have dead men's fingers. At the stronger tidal streams than Turbot Grounds bryozoans were sites in Bigbury Bay and both the dominant group (see pictures right) - the upper one The Turbot Grounds is more with the sea slug Crimora varied with both low profile papillata feeding on hornwrack. reefs on the boundary of the The most exciting record here





Bolt Tail

This site was at the edge of the rocky reefs extending out from Bolt Tail where they run into coarse sand at a depth of 17-20m. Shallower surfaces had a covering of kelp forest and there was a band of mixed plant and animal turf below. Upper surfaces in this band were dominated by seaweeds such as the Sea beech Delessaria, and brown algae such as Dictyota, Dictyopteris and Desmarestia. Vertical and shaded surfaces had a short animal turf in which bryozoans dominated but the orange sea squirt Stolonica was also common. The sand was barren with sand eels.

