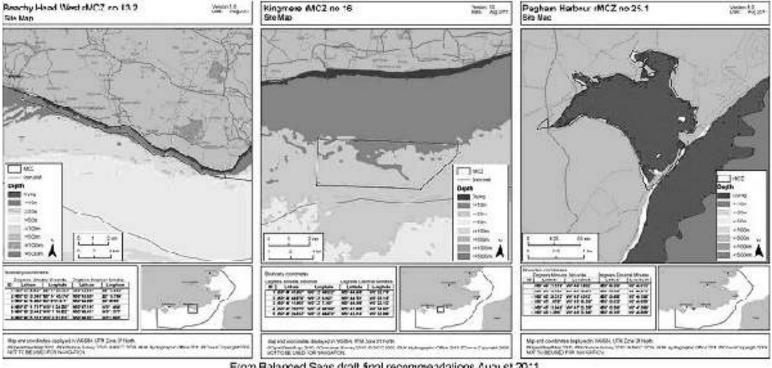


#### **Marine Conservation Zones**

he most significant occurrence during 2013 must be the designation of Marine Conservation Zones around the UK. Nationally, out of the 127 suggested only 31 were put forward and of these 27 designated which makes Sussex particularly fortunate in that three of these are along our coast.



# From Balanced Seas draft final recommendations August 2011

### **Beachy Head West**

The renown Sussex chalk cliffs extend as subtidal chalk gullies and reefs from Beachy Head to Black Rock, Brighton. Seasearch records have revealed a rich and diverse associated fauna taking advantage of the wide range of available niches. Notable amongst these are the beds of Blue Mussels, Mytilus edulis.

### **Kingmere**

Lying off-shore between Worthing and Littlehampton further exposures of chalk including the chalk cliff of Worthing Lumps. In addition to the chalk various coarse sediments provide additional niches. Of note is the presence of Black Bream,

Spondyliosoma cantharus, which exploit the shallow sediment deposits to make their 'nests'.

This site, not one covered by Seasearch, is an important site for Eel Grass, Zostera marina. This is one of the three sites in England where Defolin's Lagoon Snail, Caecum armoricum, occurs as well as the rare Lagoon Sand Shrimp, Gammarus insensibilis which also occurs in Widewater Lagoon, Shoreham.

Despite this apparent success the governments aim 'for the establishment of an ecologically coherent network' of marine sites fall short and we must continue to gather information on these and other sites.

# 2013 Surveys

s is all to common to Sussex diving the weather and conditions hampered dives, however a total of 57 dives were recorded of which 33 produced Observation forms and 24 Survey forms. Some of the forms were combined as they were carried out at the same time by pairs of divers, which invariably occurs at Selsey Lifeboat Station where Seasearch training dives take place. Of these 15 were from Sussex Seasearch organised dives and the remaining 42 from independent divers who submitted their data through Seasearch nationally

# Training

here were two Observer Courses planned in Sussex in 2013. The one in Brighton became a refresher day as there were insufficient new people to run a course. A second course was run in Selsey in July with five participants and James Lucey as tutor. Two of the participants, Ellie Taylor and Erica Stirett, went on to complete the Observer qualification and two others, Barbara King and Christine Lissoni, who attended a course in Worthing in 2012, also became

Seasearch Observers during the year. Neil Watson who lives in Sussex has become a Seasearch Surveyor.

# **People**

In 2012 Erin Pettifer got off to an exciting start in her role as Marine Conservation Officer at Sussex Wildlife Trust (SWT). As a keen diver she became involved with Seasearch. Then in May 2013 she move to become the new Marine Protected Area Officer for the Sussex Inshore Fisheries Authority based in Shoreham and continues her interest in diving and recording.

Olle Åkesson, another enthusiastic diver, replaced Erin at the SWT as the Living Seas Officer and later took over the coordination of Seasearch in Sussex. His main responsibility is to help protect and conserve our valuable marine environment.





**Special Dives** 

Specific dives were carried out on three of the, at the time, Recommended MCZs: Selsey & The Hounds, Kingmere and Beachy Head West (Royal Sovereign Shoals). Some images of these sites are provided below:

Unfortunately, neither Beachy Head West, which includes the Royal Sovereign Shoals, nor Selsey and the Hounds, made it through this time.



# Ampelisca in Sussex

mpelisca is a genus of amphipod crustacean that, like many amphipods, produces tubes in which to live (other examples can be found on the chalk reefs and amongst mussels [if you've ever dived for mussels on vertical surfaces you get covered in them as you harvest the mussels]. Ampelisca brevicornis occurs around much of the UK (see http://www.marlin.ac.uk/speciesinformation.php?speciesID=2485) and in sufficient numbers produces mats or beds. In 2004 Dorset Seasearch (see http://www.seasearch.org.uk/downloads/dorset2004report.pdf) published a record of this species in Poole Bay. During a dive on the submarine A1 Alison Mayor recorded the presence of Ampelisca on the surrounding seabed. This is the first record of this a mat of this species for Sussex and warrants further investigation as this is an unusual biotope. Within the JNCC biotope classification system (see http://jncc.defra.gov.uk/page-1584) Ampelisca species cropup in a number of biotopes notable:

SS.SSA.IFiSa.TbAmPo: Semi-permanent tube-building amphipods and polychaetes in sublittoral sand

SS.SMU.ISaMu: Infralittoral sandy mud

SS.SMU.ISaMu Ampelisca spp, Photis longicaudata and other tube-building amphipods and polychaetes in

infralittoral sandy mud.

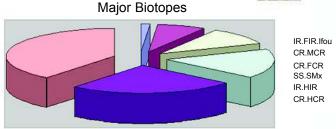
# Sites/Events

# **Summaries of the Records**

Anchor Lump	2
Inner Mulberry	1
Jenny Ground	1
Kingmere Rocks	1 combined
Looe Gate	2
Mixon Hole	2
Outer Mulberry	10
Outer Mulberry, drift	1 [over sediment]
Royal Sovereign Shoals	1
Seaford Gullies	1
Selsey East Beach	3
Selsey Lifeboat Station	9
Worthing Lumps	2
Wreck: HM Submarine A1	1
Wreck: Indiana	1
Wreck: Landing Craft	3
Wreck: Pentyrch	1
Wreck: Ramsgarth	1
Wreck: Steam Trawler	2
Wreck: Vale of Leven	1

# Major Groups: % of Records Porffera Cridaria Platyhelminthes Annelida Platyhelminthes Annelida Platyhelminthes Annelida Platyhelminthes Annelida Propronida Echinoderms Fish Seaweeds

# Major Substrata clay sandgravel concrete chalk metal caarse sediment/ mixed ground nt/



Infralittoral fouling seaweed communities: IR.FIR.Ifou, Moderate energy circalittoral rock: CR.MCR, Features of circalittoral rock: CR.FCR, Sublittoral mixed sediment: SS.SMx, High energy infralittoral: IR.HIR, High energy circalittoral rock: CR.HCR.

Species		Tubularia indivisa	15
Porifera, Sponges	00	Tubularia larynx	1
Amphilectus fucorum	22	Urticina felina	23
Antho dichotomal	1	Platyhelminthes, Flatworr	
Cliona celata	10	Prostheceraeus vittatus	7
Dysidea fragilis	22	Annelida, Segmented Wo	
Grantia compressa	1	Arenicola marina	6
Halichondria bowerbanki	2	Bispira volutacornis	16
Halichondria panicea	7	Eulalia viridis	4
Halichondria sp.	2	Lanice conchilega	15
Haliclona oculata	4	Polydora ciliata	2
Haliclona simulans	6	Polynoidae	1
Hemimycale columella	5	Pomatoceros lamarcki	2
Leucosolenia variabilis	1	Pomatoceros triqueter	17
Microciona atrasanguinea	2	Sabella pavonina	14
Myxilla rosea	1	Salmacina dysteri	4
Myxilla sp.	1	Spirorbis spirorbis	1
Pachymatisma johnstonia	2	Crustacea, Amphipods,	
Phorbas fictitious	1 1	Barnacles, Prawns, Crabs	,
Polymastia sp. Polymastia boletiformis	-	Lobster	4
•	1	Amphipoda	1
Polymastia penicillus	1 14	Cancer pagurus Carcinus maenas	30 4
Porifera indet crusts			4
Porifera indet	2 1	Cirripedia	-
Raspailia ramosa	2	Galathea squamifera	4 17
Scypha ciliata		Homarus gammarus	
Scypha elegans	1 8	Hyas araneus	4 3
Suberites carnosus		Inachus phalangium	
Suberites ficus	24 4	Inachus sp.	16 4
Tethya aurantium Cnidaria Seafirs, Anemones,	-	Macropodia sp. Macropodia tenuirostris	2
Softcorals, Corals		Maja squinado	13
Actinia equina	4	Necora puber	30
Actinothoe sphyrodeta	26	Pagurus bernhardus	28
Adamsia carciniopados	1	Pagurus prideaux	1
Aglaophenia pluma	7	Palaemon serratus	4
Alcyonium digitatum	25	Pandalus	1
Anemonia viridis	35	Porcellana platycheles	i
Cereus pedunculatus	14	Pseudoprotella phasma	2
Cerianthus Iloydii	2	Semibalanus balanoides	1
Clava multicornis	1	Mollusca, Limpets, Snails	•
Clytia hemisphaerica	1	Seaslugs, Mussels and C	
Clytia paulensis	1	Cuttlefish	o
Corynactis viridis	9	Acanthodoris pilosa	1
Diadumene cincta	3	Aeolidia papillosa	3
Halecium halecinum	2	Aequipecten opercularis	4
Hydrallmania falcata	3	Aplysia punctata	1
Hydroids indet.	22	Archidoris pseudoargus	7
Laomedea angulata	1	Buccinum undatum	19
Metridium senile	4	Calliostoma zizyphinum	26
Nemertesia antennina	10	Coryphella sp.	2
Nemertesia ramosa	1	Crepidula fornicata	35
Obelia geniculata	6	Ensis sp.	1
Sagartia troglodytes	2	Gibbula cineraria	11
Sertularella rugosa	1	Hinia reticulata	16
Sertularia argentea	2	Mytilus edulis	13
Sertularia cupressina	2	Nudibranchia indet.	3
· · · · · · · · · · · · · · · · · · ·	_		-

Ootrop odulje	22	Data daide a la cabi	•
Ostrea edulis Patella vulgata	22 1	Botrylloides leachi	2 14
Pecten maximus	8	Botryllus schlosseri Ciona intestinalis	2
Pholas dactvlus	12		16
Polycera quadrilineata	1	Clavelina lepadiformis	7
Sepia officinalis	8	Dendrodoa grossularia	1
Trivia arctica	7	Didemnum maculosum	1 5
Bryozoa, Seamats	′	Diplosoma listerianum	5 13
	_	Diplosoma spongiforme	13
Alcyonidium diaphanum	5 3	Lissoclinum perforatum	-
Bryozoa in.det.		Morchellium argus	5
Bryozoa indet crusts	8	Styela clava	22
Bugula avicularia		Tunicata indet.	4
Bugula flabellata	1	Pisces, Fish	•
Bugula plumosa	10	Aspitrigla cuculus	3
Bugula sp.	11	Callionymus lyra	24
Bugula stolonifera	2	Centrolabrus exoletus	1
Bugula turbinata	2	Conger conger	9
Cellaria sp	1	A clingfish	1
Cellepora pumicosa	7	Crenilabrus melops	17
Chartella papyracea	11	Ctenolabrus rupestris	18
Crisia denticulata	2	Cyclopterus lumpus	2
Crisia sp.	3	Dicentrarchus labrax	4
Disporella hispida	2	Gobius niger	8
Electra pilosa	10	Gobiusculus flavescens	12
Escharella variolosa	1	Hyperoplus lanceolatus	1
Flustra foliacea	34	Labrus bergylta	32
Membranipora membranacea	6	Labrus mixtus	4
Pentapora foliacea	9	Parablennius gattorugine	22
Plagioecia patina	1	Pleuronectes platessa	8
Securiflustra securifrons	2	Pollachius pollachius	15
Phoronida, Horshoe Worms		Pomatoschistus pictus	3
Phoronis hippocrepia	7	Pomatoschistus sp.	4
Echinodermata, Starfish, Se	а	Raja clavata	3
Urchins		Raja undulata	2
Asterias rubens	38	Scyliorhinus canicula	6
Henricia sanguinolenta	2	Spondyliosoma cantharus	5
Ophiura ophiura	2	Symphodus bailloni	1
Psammechinus miliaris	2	Syngnathus acus	7
Tunicata, Sea Squirts		Taurulus bubalis	8
Aplidium punctum	9	Thorogobius ephippiatus	7
Ascidia mentula	5	Trachurus trachurus	1
Ascidiella scabra	2	Trisopterus luscus	25
		•	

Zeugopterus punctatus Algae: Rhodophycota, Reds Brongniatella byssoides Calliblepharis ciliata Ceramium cimbricum Ceramium secundatum Chondrus crispus Corallina officinalis Cryptopleura ramosa Delesseria sanguinea Desmarestia aculeata Dilsea carnosa Erythrotrichia carnea Halarachnion ligulatum Heterosiphonia plumosa Phyllophora pseudoceranoides Plocamium cartilagineum Rhodophycota indet. Rhodophycota indet.(noncalc.crusts) Rhodophyllis divaricata Algae: Chromophycota,

Trisopterus minutus

Browns1 Chorda filum Desmarestia aculeata Dictyota dichotoma Fucus serratus Halidrys siliquosa Laminaria indet. Laminaria digitata I aminaria hyperborea Laminaria saccharina Phaeophyceae indet. Pilayella littoralis Saccorhiza polyschides Sargassum muticum Scytosiphon Iomentaria Taonia atomaria

Algae: Chlorophycota, Greens Ulva lactuca

Watson, Nigel Haines, Michelle Legg, Philip Littlechild, Rafael Sequin, Ray Drabble, Sam Wilson, Sarah McKenzie. Steve Mawer, Theresa Blignaut, Yvette Knight. Apologies if

# <sup>2</sup> Biotopes

11

16

5

espite difficulties in assigning biotopes (see jncc.defra.gov.uk/marinehabitatclassification) approximately 57% of those recorded were circalittoral rock (CR), 26% infralittoral rock (IR) and 17% sublittoral sediment (SS).



Reef and Beachy Head East. These MCZs are now at the stage of determining their management needs through consultation with stakeholders. This process started at the 17 end of last year.

- 2. Revisit the two rejected rMCZs, Beachy Head West and Selsey and the Hounds in order to gather additional data to support their recommendations for their future desig-
- 3. Set up a monitoring programme for Looe Gate/SW Rocks chalk complex. Brighton Marina Divers are keen to do this. Despite its relatively small size this is a significant
- 3. Olle will be arranging Seasearch dives and has an Observer Course planned for February 2014. As this Newsletter is late in going out the 'has' is now 'had'! The course went really well with six people completing the theory sessions. He is currently looking 4 at dates for a day so they can do the dives and hopefully a joint surveyor course with Hampshire & Isle of Wight later this year. For surveys Olle is looking at borrowing club RIBs and doing shore dives as it appears that there is not quite enough interest/enthusiasm to fill a hardboat.

# Finally: Thank You!

hanks to all skippers including Steve Johnson (Channel Diver), and Paul Jackman (Defiance Charters), and divers (and buddies when recorded) included: Alison Mayor Andrew Woods, Barbara King, Beca Korda, Bryony Chapman, Chris Nicolaj, Chris Williams, Christine Bohea, Christine Lissoni, Ellie Taylor, Erica Stirrett, Gerald Legg, Glenn King, Graham Jackson, Hilary Evans, Ian Kenney, James Lucey, Jane St.Pierre, Keith Graham, Martin McDonagh, Martin Shaw, Michael Hood, Neil Watson, Neil



you are omitted. A special thank you also to Ian Tittley for his identification of many of the less common algae and to Natural England for their support with data entry costs.

For 2014

eather and div-

ing conditions

1. Increase





### **Contact Information**

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