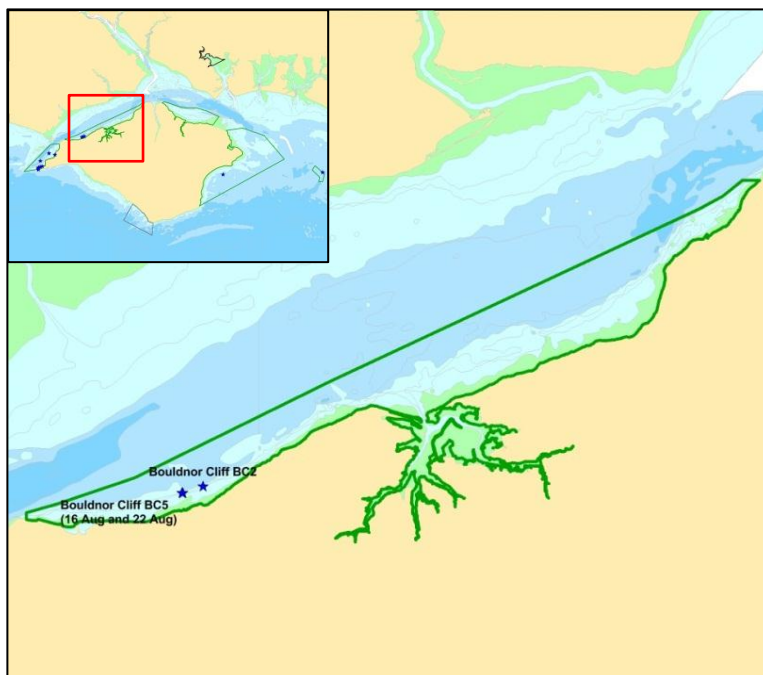


## Summary of Seasearch Surveys carried out by HIWWT in 2014 in the Yarmouth to Cowes recommended Marine Conservation Zone

Seasearch surveys were undertaken at one site within the Yarmouth to Cowes rMCZ in 2014, recording a ledged, sloping mud, peat and clay seabed with *Ostrea edulis* and piddock burrows.

Below are detailed: survey site location map, site name, date, time, location (central position of survey); number of forms done, with names of the lead surveyors, photos/videos available; and an indication of the site location accuracy.

### Survey site locations



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### Survey divers

#### Seasearch survey divers:

Lin Baldock, Jenny Mallinson, Polly Whyte, Matt Doggett, Amy Marsden, Bryony Chapman, Charlotte Bolton, James Lucey, Nick Owen, Nigel Topham, Kerry Evans

#### Seasearch observation divers:

Abbi Scott, Glyn Scott, Karen Dunford, David Farmer, Rebecca Oliver, Emma Christison, Justin Evans, Derek Watson, Roland Brookes, Matthew Ferguson, Chris Pirie, David Mason, Sue Meakin, Rik Girdler



## Data management and Quality Assurance

Form validation by Amy Marsden, HIWWT Marine Officer and Abbi Scott, HIWWT Assistant Marine Officer.  
 Data entry into Marine Recorder by Abbi Scott, HIWWT Assistant Marine Officer.  
 Identification of species samples by Chris Spurrier, consultant marine biologist.  
 Biotope determinations by Chris Spurrier, consultant marine biologist.

## Survey details

<p><b>Bouldnor Cliff (BC5)</b> 16<sup>th</sup> August 2014. 14:48. 50° 42.706N, 01° 28.617W          3 Survey forms (Abbi Scott, Emma Christison, David Farmer). Photos.          8 divers in 4 groups, dropped in at the same start position. One group did not submit data from their survey data. Remaining groups reported sloping mud and clay seabed with occasional ledges and burrows throughout. Poor visibility hindered survey.          Start position at shot line (Deg DecMin). No end position recorded.</p>
<p><b>Bouldnor Cliff</b> 22<sup>nd</sup> August 2014. 08:35. 50° 42.708N, 01° 28.624W          6 Survey forms (Lin Baldock, Polly Whyte, Amy Marsden, Charlotte Bolton, James Lucey, Nick Owen). Photos and video (video footage available on request). Two groups with towed GPS unit.          12 divers in 6 groups, dropped in at the same start position. All surveyors had extensive experience to split the terrain into 3 distinct habitats of peat, clay and mud – flat, shallow slope, and steep slope, all piddock bored.          Start position at shot line (Deg DecMin). Two groups with towed GPS unit, photos from these surveyors were geo-referenced (Dec Deg). No end position recorded for surveyors without a GPS unit.</p>
<p><b>Bouldnor Cliff (BC2)</b> 3<sup>rd</sup> October 2014. 13:59. 50° 42.775N, 01° 28.284W          6 Survey forms (Kerry Evans, Derek Watson, Chris Pirie, Justin Evans, Karen Dunford, Polly Whyte)          Photos. One group with towed GPS unit.          12 divers in 6 groups, dropped in at the same start position. Clay ledges with areas of protruding fossilised wood. Some areas were heavily pitted and piddock bored. Amphipod tubes and <i>Ostrea edulis</i> were also present. Layer of silt throughout.          Start position at shot line (Deg DecMin). One group with towed GPS unit, photos from these surveyors were geo-referenced (Dec Deg). No end position recorded for surveyors without a GPS unit.</p>

## Summary of priority habitats/features recorded in Yarmouth to Cowes rMCZ in 2014

BSH, Habitat and Species FOCI recommended for designation in this rMCZ		Supporting evidence from HIWWT Seasearch in 2014	Survey details (site, data & lead surveyor)
BSH	Intertidal coarse sediment	None	n/a
BSH	Low energy intertidal rock	None	n/a
BSH	Moderate energy infralittoral rock	2 records of IR.MIR.KR.Ldig.Pid (Eunis A3.2113) – note absence of kelp but location at top of reef makes this biotope more appropriate than CR.MCR.SfR.Pid. No photos	Bouldnor Cliff 22 <sup>nd</sup> August 2014 (Lin Baldock, Charlotte Bolton)
BSH	Subtidal coarse sediment	None	n/a
HOCl	Mud habitats in deep water	None	n/a
HOCl	Native oyster beds ( <i>Ostrea edulis</i> )	None	n/a
HOCl	Peat and clay exposures	10 records of CR.MCR.SfR (Eunis A4.23) 6 photos – see also photos submitted for Moderate energy circalittoral rock BSH.	Bouldnor Cliff, 16 <sup>th</sup> August 2014 (Emma Christison, Rebecca Oliver); Bouldnor Cliff 22 <sup>nd</sup> August 2014 (Justin Evans; Charlotte Bolton); Bouldnor Cliff (BC2) 3 <sup>rd</sup> October 2014 (Justin Evans, Roland Brookes, Karen Dunford, Chris Pirie, Polly Whyte, Emma Christison)
		7 record of CR.MCR.SfR.Pid (Eunis A4.231)	Bouldnor Cliff, 16 <sup>th</sup> August 2014 (Abbi Scott);

		4 photos – see also photos submitted for Moderate energy circalittoral rock BSH.	Bouldnor Cliff 22 <sup>nd</sup> August 2014 (Polly Whyte, James Lucey, Nick Owen, Lin Baldock, Amy Marsden, Charlotte Bolton)
HOCI	Rossworm ( <i>Sabellaria spinulosa</i> ) reef	None	n/a
HOCI	Seagrass beds	None	n/a
SOCI	Lagoon Sand Shrimp ( <i>Gammarus insensibilis</i> )	None	n/a
SOCI	Native oyster ( <i>Ostrea edulis</i> )	44 records of <i>Ostrea edulis</i> 11 photos - more available on request.	Bouldnor Cliff 22 <sup>nd</sup> August 2014 (James Lucey, Nick Owen, Lin Baldock, Amy Marsden, Charlotte Bolton); Bouldnor Cliff (BC2) 3 <sup>rd</sup> October 2014 (Roland Brookes, Justin Evans, Chris Pirie, Polly Whyte, Emma Christison);

Additional BSH, Habitat or Species FOCI recorded in this rMCZ (not included in rMCZ features list)		Supporting evidence from HIWWT Seasearch in 2014	Survey details (site, data & lead surveyor)
BSH	High energy circalittoral rock	3 record of CR.HCR.XFa (Eunis A4.13) 5 photos.	Bouldnor Cliff (BC2) 3 <sup>rd</sup> October 2014 (Justin Evans, Roland Brookes, Chris Pirie)
BSH	Moderate energy circalittoral rock	9 records of CR.MCR.SfR (Eunis A4.23) 4 photos – see also photos submitted for peat and clay exposures HOCI.	Bouldnor Cliff, 16 <sup>th</sup> August 2014 (Emma Christison, Rebecca Oliver); Bouldnor Cliff 22 <sup>nd</sup> August 2014 (Justin Evans); Bouldnor Cliff (BC2) 3 <sup>rd</sup> October 2014 (Justin Evans, Roland Brookes, Karen Dunford, Chris Pirie, Polly Whyte, Emma Christison)
		9 record of CR.MCR.SfR.Pid (Eunis A4.231) 5 photos – see also photos submitted for peat and clay exposures HOCI.	Bouldnor Cliff, 16 <sup>th</sup> August 2014 (Abbi Scott); Bouldnor Cliff 22 <sup>nd</sup> August 2014 (Polly Whyte, James Lucey, Nick Owen, Lin Baldock, Amy Marsden, Charlotte Bolton)
		4 record of CR.MCR.CFaVS.CuSpH.As (Eunis A4.2511) 5 photos.	Bouldnor Cliff, 22 <sup>nd</sup> August 2014 (Polly Whyte, Nick Owen, Lin Baldock)
BSH	Subtidal mud	10 records of SS.SMu.SMuVS.PoICvol (Eunis A5.321) 8 photos - more available on request.	Bouldnor Cliff (BC5), 16 <sup>th</sup> August 2014 (Abbi Scott); Bouldnor Cliff 22 <sup>nd</sup> August 2014 (Polly Whyte, James Lucey, Nick Owen, Amy Marsden, Charlotte Bolton); Bouldnor Cliff (BC2) 3 <sup>rd</sup> October 2014 (Justin Evans, Polly Whyte, Chris Pirie, Emma Christison)
		1 record of SS.SMu.ISaMu.AmpPlon (Eunis A5.335) 3 photos.	Bouldnor Cliff (BC2) 3 <sup>rd</sup> October 2014 (Roland Brookes)
BSH	Sublittoral mixed sediment	1 record of SS.SMx.CMx (Eunis A5.44) No photos.	Bouldnor Cliff 22 <sup>nd</sup> August 2014 (Charlotte Bolton).

## Reference to Marine Recorder survey and photo data submitted

MR Survey Name	2014 Seasearch Hampshire and Isle of Wight
MR Survey Key	MRLRC01200000023
Photo Spreadsheet Name	2014 HIWWT SeS MCZ T2 Photo evidence.xlsx

### Photo Selection (see submitted photo evidence spreadsheet file files for more)



Bouldnor Cliff. 22nd August 2014. Nick Owen. CR.MCR.SfR.Pid (Eunis A4.231)

HOCl: Peat and clay exposures

BSH: Moderate energy circalittoral rock

Photo file name: 140822\_Bouldnor\_NOwen\_IMG\_6298

MR Event Key: MRLRC012000001E3



Bouldnor Cliff (BC2). 3<sup>rd</sup> October 2014. Justin Evans. CR.MCR.SfR (Eunis A4.23)

HOCl: Peat and clay exposures

BSH: Moderate energy circalittoral rock

Photo file name: 141003\_Bouldnor BC2\_JustinEvans\_DSC0815034

MR Event Key: MRLRC012000001F0



Bouldnor Cliff. 22<sup>nd</sup> August 2014. Polly Whyte. CR.MCR.SfR.Pid (Eunis A4.231)  
HOCl: Peat and clay exposures  
BSH: Moderate energy circalittoral rock  
Photo file name: 140822 Bouldnor Cliff\_Polly Whyte-21  
MR Event Key: MRLRC012000001DF



22/08/2014 09:17:41 (+1.0 hrs) Lat=50.71159 Lon=-1.47731 Alt=5ft MSL WGS 1984  
Bouldnor Cliff. 22<sup>nd</sup> August 2014. Charlotte Bolton. CR.MCR.SfR.Pid (Eunis A4.231)  
HOCl: Peat and clay exposures  
BSH: Moderate energy circalittoral rock  
Photo file name: 140822\_Bouldnor\_CBolton\_P8225903  
MR Event Key: MRLRC012000001EA



22/08/2014 09:15:50 (+1.0 hrs) Lat=50.7116 Lon=-1.47728 Alt=7ft MSL WGS 1984

Bouldnor Cliff. 22<sup>nd</sup> August 2014. Charlotte Bolton.

SOCI: *Ostrea edulis* (native oyster)

Photo file name: 140822\_Bouldnor\_CBolton\_P8225903

MR Event Key: MRLRC012000001EA



03/10/2014 14:21

03/10/2014 14:17:51 (+1.0 hrs) Lat=50.71304 Lon=-1.47083 Alt=-14ft MSL WGS 1984

Bouldnor Cliff (BC2). 3<sup>rd</sup> October 2014. Chris Pirie. CR.HCR.XFa (Eunis A4.13)

BSH: High energy circalittoral rock.

Photo file name: 141003\_Bouldnor\_CPirie\_IMG\_1404

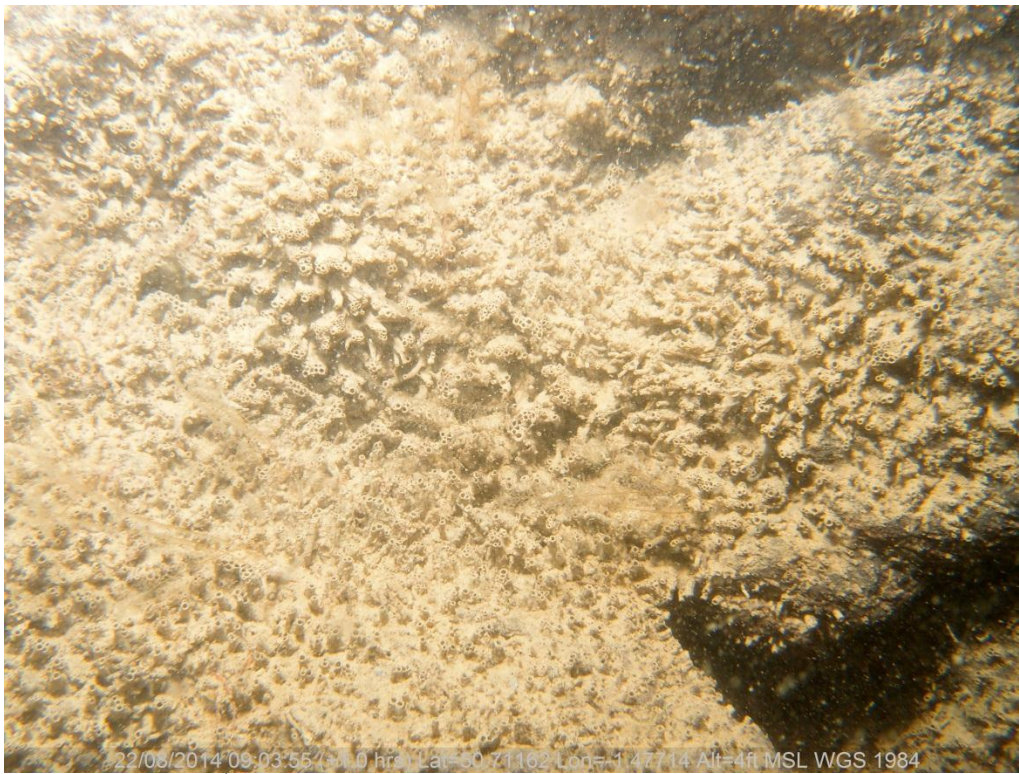
MR Event Key: MRLRC012000001F3



Bouldnor Cliff. 22<sup>nd</sup> August 2014. Nick Owen. CR.MCR.CFaVS.CuSpH.As (Eunis A4.2511)  
BSH: Moderate energy circalittoral rock  
Photo file name: 140822\_Bouldnor\_NOwen\_IMG\_6250  
MR Event Key: MRLRC012000001E3



Bouldnor Cliff (BC5). 16<sup>th</sup> August 2014. Abbi Scott. SS.SMu.SMuVS.PoICvol (Eunis A5.321)  
HOCl: Peat and clay exposures  
BSH: Subtidal mud  
Photo file name: 140816\_Bouldnor\_AbbiScott\_DSCF18610106  
MR Event Key: MRLRC012000001DD



Bouldnor Cliff. 22<sup>nd</sup> August 2014. Charlotte Bolton. SS.SMu.SMuVS.PoICvol (Eunis A5.321)  
HOCl: Peat and clay exposures.  
BSH: Subtidal mud  
Photo file name: 140822\_Bouldnor\_CBolton\_P8225842  
MR Event Key: MRLRC012000001EA



Bouldnor Cliff (BC2). 3<sup>rd</sup> October 2014. Justin Evans. SS.SMu.SMuVS.PoICvol (Eunis A5.321)  
HOCl: Peat and clay exposures  
BSH: Subtidal mud  
Photo file name: 141003\_Bouldnor BC2\_JustinEvans\_DSC0813525  
MR Event Key: MRLRC012000001F0





Bouldnor Cliff (BC2). 3<sup>rd</sup> October 2014. Roland Brookes. SS.SMu.ISaMu.AmpPlon (Eunis A5.335)  
BSH: Subtidal mud  
Photo file name: 2014010-03 Seasearch Diving 127 copyRolandBrookes19  
MR Event Key: MRLRC012000001ED