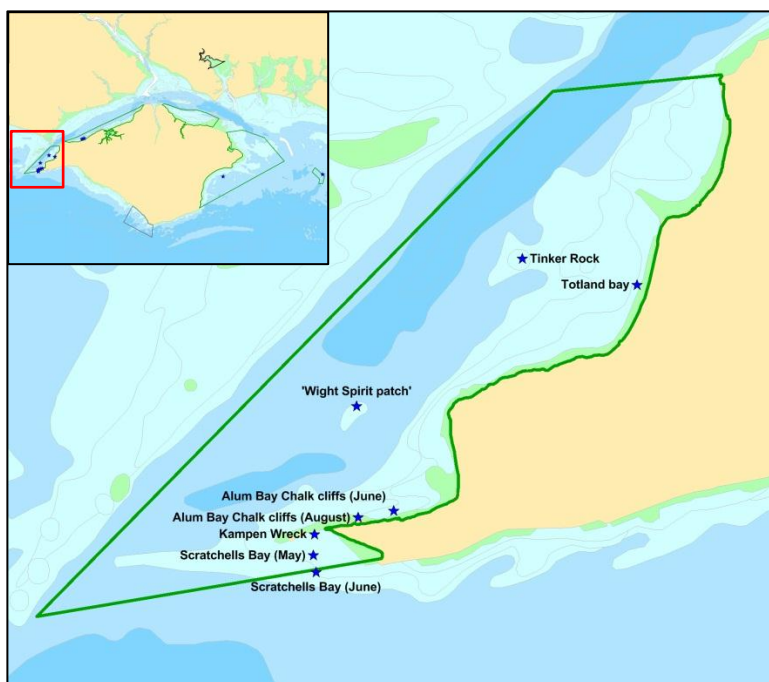


Summary of Seasearch Surveys carried out by HIWWT in 2014 in the The Needles recommended Marine Conservation Zone

Seasearch surveys were undertaken at one site within the The Needles rMCZ in 2014, recording piddock bored chalk reef and boulders, a *Zostera marina* bed on sand, and mixed sediment.

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:

Gordon Bird, Amy Marsden, James Lucey, Mike Markey, Lin Baldock, Rebecca Oliver, Polly Whyte, Matt Doggett, Nigel Topham, Nick Owen, Jenny Mallinson, Bryony Chapman, Charlotte Bolton, Rik Girdler, Chris Pirie

Seasearch observation divers:

Sue Meakin, Justin Evans, Dawn Biggs, Kerry Evans, Dave Rawlinson, Abbi Scott, Karen Dunford, Roland Brookes, Bob Wiles, Tapani Paytaniemi, Glyn Scott, Emma Christison, David Farmer, Derek Watson, Matthew Ferguson, David Mason



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>Totland Bay Pier & Zostera 4th May 2014. 10:42. 50° 41.005N, 01° 32.748W 3 Survey forms (Gordon Bird, Justin Evans, Amy Marsden). Photos. One group with towed GPS unit. 6 divers in 3 groups, dropped in at the same start position. Pebble and silt substrate under pier giving way to sand supporting <i>Zostera marina</i> bed. Pier legs provides habitat for CR.HCR.XFa biotope. Start position of buddy pairs recorded (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>
<p>Scratchell's Bay 4th May 2014. 13:33. 50° 39.660N, 01° 35.280W 2 Survey forms (Justin Evans, Amy Marsden). Photos. One group with towed GPS unit. 6 divers in 3 groups, dropped in at the same start position. Heavily piddock bored chalk reef. Reef undulates into gullies with smooth base in places. Many areas with layer of silt, often filling empty piddock burrows. Start position at shot line (Deg DecMin). No end position recorded. 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>
<p>Scratchell's Bay 13th June 2014. 10:47, 50° 39.575N, 01° 35.260W; 3 Survey forms (James Lucey, Lin Baldock, Abbi Scott). Photos. One group with towed GPS unit. 7 divers in 3 groups, dropped in at the same start position. Chalk reef consisting of upward facing gently sloping areas with fine layer of silt, vertical, heavily piddock bored areas, and gully bottoms with pebbles and cobbles. 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>
<p>Alum Bay Chalk cliffs 13th June 2014. 13:10. 50° 39.868N, 01° 34.710W 4 Survey forms (James Lucey, Mike Markey, Lin Baldock, Abbi Scott). Photos. One group with towed GPS unit. 7 divers in 3 groups, dropped in at the same start position. Chalk reef consisting of top with dominance of <i>Laminaria hyperborea</i>, leading to slightly overhanging wall with boulders and cobbles at base on mixed sediment. Heavy cover of uncompacted 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>
<p>Kampen Wreck 13th June 2014. 11:56. 50° 39.764N, 01° 36.274W 1 Survey form (James Lucey) Photos. 3 divers in 1 group, dropped in at the same start position. Piddock bored chalk reef and gullies with pebbles at base and with dense cover of mixed seaweeds on upper surfaces. Start position of buddy pair recorded (Deg DecMin). No end position recorded.</p>
<p>Under Alum Bay chalk cliffs 16th August 2014. 10:48. 50° 39.848N, 01° 34.936W 4 Survey forms (Bob Wiles, Abbi Scott, Karen Dunford, Rebecca Oliver). Photos. One group with towed GPS unit. 8 divers in 4 groups, dropped in at the same start position. Collection of large and pitted chalk boulders overlapping to create overhangs and crevices. Area of mixed sediment including patches of very soft mobile sediment. Cover 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>
<p>'Wight Spirit Patch' 22nd August 2014. 15:04. 50° 40.402N, 01° 34.946W 6 Survey forms (Polly Whyte, James Lucey, Nigel Topham, Lin Baldock, Bryony Chapman, Charlotte Bolton). Photos and video (video footage available on request). One group with towed GPS unit. 12 divers in 6 groups, dropped in at the same start position. Large boulders and bedrock outcrops with dense rich short animal turf partially buried in mobile coarse sand, gravel, and shells. 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>
<p>Tinker Rock 3rd October 2014. 11:18. 50° 41.135N, 01° 33.641W 6 Survey forms (Kerry Evans, Roland Brookes, Chris Pirie, Justin Evans, Sue Meakin, Polly Whyte). Photos. 12 divers in 6 groups, dropped in at the same start position. Large boulders and bedrock covered with rich faunal turf in shallower regions, but much scoured with sparser community in deeper areas. Surrounding gravel seabed was clean with little life, suggesting high tidal flows and mobility. Start position at shot line (Deg DecMin). No end position recorded.</p>

Summary of priority habitats/features recorded in The Needles 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	Subtidal mixed sediments	2 records of SS.SMx (Eunis A5.4) 2 photos	Under Alum Bay chalk cliff, 16 th August 2014 (Rebecca Oliver); Wight Spirit Patch, 22 nd August 2014 (Nick Owen)
		4 records of SS.SMx.CMx (Eunis A5.44) 5 photos – more available on request.	Wight Spirit Patch, 22 nd August 2014 (James Lucey, Bryony Chapman); Tinker Rock, 3 rd October 2014 (Kerry Evans, Chris Pirie)
		2 record of SS.SMx.CMx.FluHyd (Eunis A5.444) 4 photos – more available on request.	Tinker Rock, 3 rd October 2014 (Justin Evans; Kerry Evans)
HOCI	Seagrass beds	3 records of SS.SMp.SSgr.Zmar (Eunis A5.5331) 3 photos	Totland Bay Pier & Zostera, 4 th May 2014 (Amy Marsden, Gordon Bird, Justin Evans)
SOCI	Stalked jellyfish (<i>Lucernariopsis campanulata</i>)	None	n/a
SOCI	Peacock's Tail seaweed (<i>Padina pavonica</i>)	None	n/a

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 infralittoral rock	2 record of IR.HIR.KFaR.LhypR (Eunis A3.115) 5 photos	Alum Bay Chalk Cliffs, 13 th June 2014 (Abbi Scott, Lin Baldock)
BSH	Moderate energy infralittoral rock	3 records of IR.MIR (Eunis A3.2) No photos	Under Alum Bay chalk cliff, 16 th August 2014 (Bob Wiles, Karen Dunford, Rebecca Oliver)
		3 record of IR.MIR.KR.Ldig.Pid (Eunis A3.2113) 4 photos	Scratchell's Bay, 13 th June 2014 (James Lucey); Kampen Wreck, 13 th June 2014 (James Lucey); Under Alum Bay chalk cliff, 16 th August 2014 (Abbi Scott)
		2 record of IR.MIR.KR.XFoR (Eunis A3.215) No photos	Scratchell's Bay, 13 th June 2014 (Lin Baldock); Alum Bay Chalk Cliffs, 13 th June 2014 (Mike Markey)
BSH	Moderate energy circalittoral rock	5 record of CR.MCR.SfR.Pid (Eunis A4.231) 3 photos – more available on request.	Scratchell's Bay, 4 th May 2014 (Amy Marsden, Justin Evans); Scratchell's Bay, 13 th June 2014 (Lin Baldock, Abbi Scott, James Lucey)
		2 records of CR.MCR.SfR.Hia (Eunis A4.233) No photos	Scratchell's Bay, 4 th May 2014 (Amy Marsden); Scratchell's Bay, 13 th June 2014 (James Lucey)
		6 record of CR.MCR.CFaVS.CuSpH.As (Eunis A4.2511) 7 photos – more available on request.	Wight Spirit Patch, 22 nd August 2014 (Polly Whyte, James Lucey, Nick Owen, Lin Baldock, Bryony Chapman, Charlotte Bolton); Tinker Rock, 3 rd October 2014 (Polly Whyte)

BSH	High energy circalittoral rock	13 records of CR.HCR.XFa (Eunis A4.13) 7 photos – more available on request.	Totland Bay Pier & Zostera, 4 th May 2014 (Gordon Bird, Justin Evans, Amy Marsden); Alum Bay Chalk Cliffs, 13 th June 2014 (Lin Baldock, Abbi Scott, James Lucey, Mike Markey); Tinker Rock, 3 rd October 2014 (Roland Brookes, Justin Evans, Polly Whyte, Kerry Evans, Chris Pirie)
		1 record of CR.HCR.XFa.Mol (Eunis A4.138) 3 photos	Tinker Rock, 3 rd October 2014 (Chris Pirie)
HOCl	Subtidal chalk	3 record of CR.MCR.SfR (Eunis A4.231) 5 photos	Scratchell's Bay, 4 th May 2014 (Amy Marsden, Justin Evans); Scratchell's Bay, 13 th June 2014 (Lin Baldock)
HOCl	Subtidal sands and gravels	1 record of SS.SCS (Eunis A5.1) 2 photos – more available on request.	Wight Spirit Patch, 22 nd August 2014 (Polly Whyte)
		1 record of SS.SCS.IC.S.Lan (Eunis A5.137) 1 photo	Alum Bay Chalk Cliffs, 13 th June 2014 (James Lucey)
		3 records of SS.SCS.CCS (Eunis A5.14) 3 photos – more available on request.	Tinker Rock, 3 rd October 2014 (Roland Brookes, Matt Doggett, Justin Evans)
		3 records of SS.SCS.CCS.PomB (Eunis A5.141) 4 photos – more available on request.	Wight Spirit Patch, 22 nd August 2014 (Polly Whyte, James Lucey, Charlotte Bolton)
		1 record of SS.SSa (Eunis A5.2) No photos	Under Alum Bay chalk cliff, 16 th August 2014 (Bob Wiles)
SOCI	Native oysters (<i>Ostrea edulis</i>)	15 records of <i>Ostrea edulis</i> 11 photos	Scratchell's Bay, 4 th May 2014 (Amy Marsden); Scratchell's Bay, 13 th June 2014 (Lin Baldock, Abbi Scott); Alum Bay Chalk Cliffs (13 th June 2014 (Lin Baldock, Abbi Scott, James Lucey); Wight Spirit Patch, 22 nd August 2014 (Polly Whyte, James Lucey, Lin Baldock, Bryony Chapman, Charlotte Bolton); Tinker Rock, 3 rd October 2014 (Roland Brookes, Karen Dunford, Kerry Evans, Chris Pirie)

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

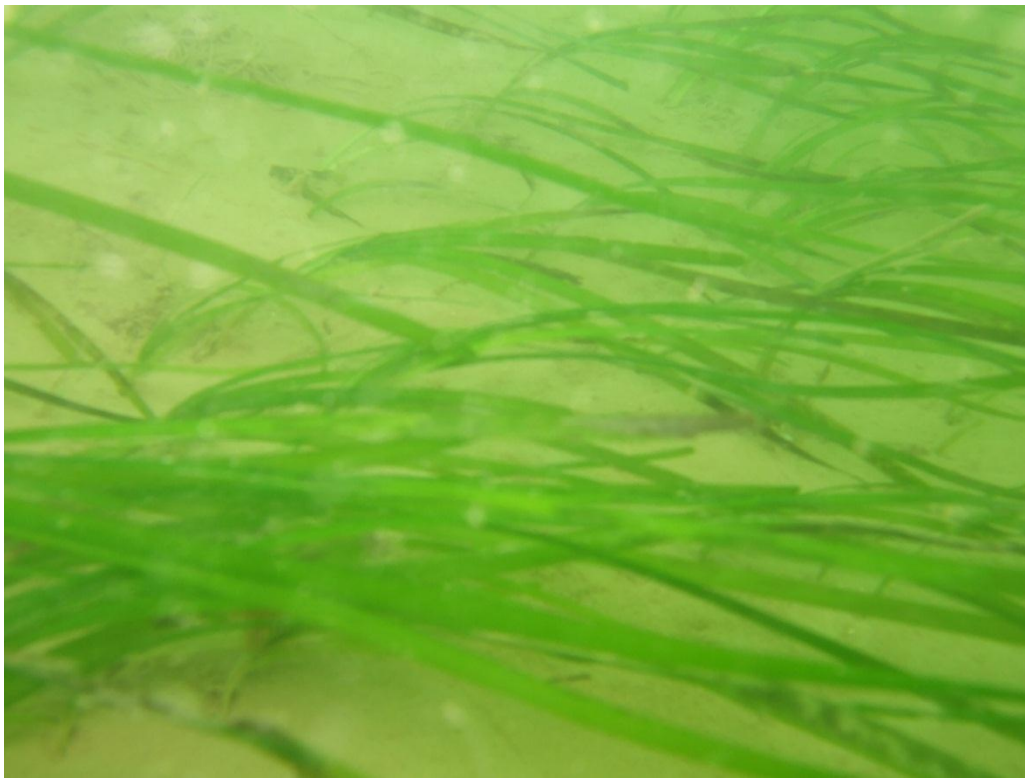
Photo Selection (see submitted photo evidence spreadsheet file files for more)



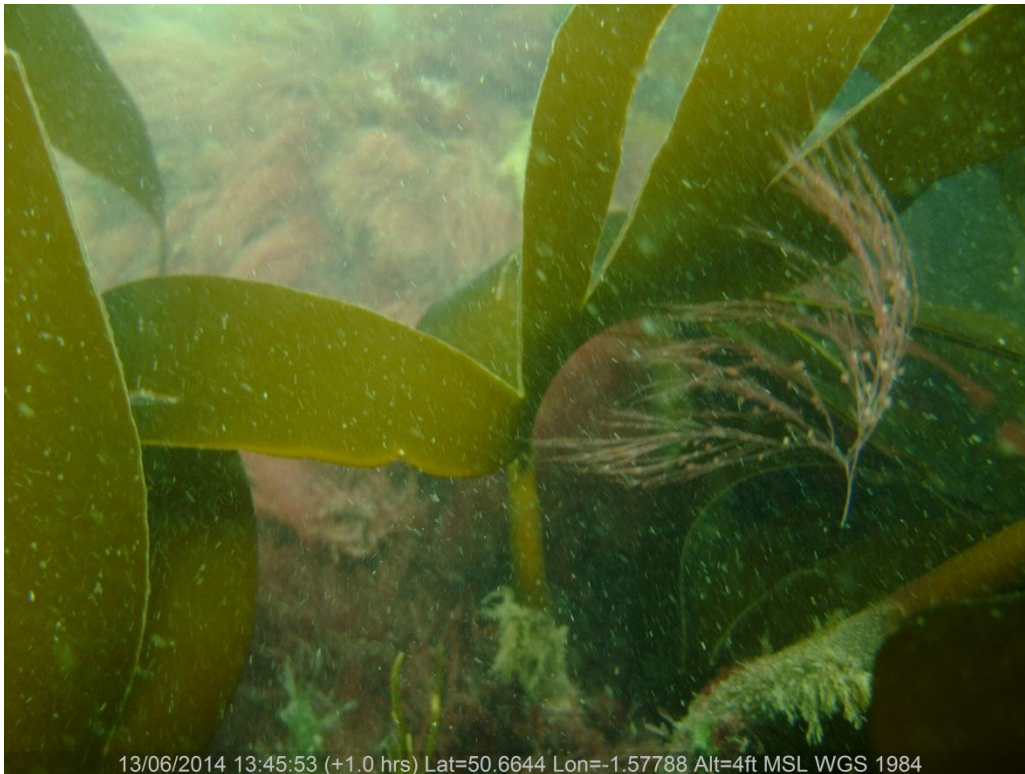
Wight Spirit Patch. 22nd August 2014. James Lucey. SS.SMx.CMx (Eunis A5.44)
BSH: Sublittoral Mixed Sediments
Photo file name: 140822_WSP_JLucey_P8220648
MR Event Key: MRLRC012000001EA



Tinker Rock. 3rd October 2014. Justin Evans. SS.SMx.CMx.FluHyd (Eunis A5.444)
BSH: Sublittoral Mixed Sediments
Photo file name: 141003_TinkerRock_JustinEvans_DSC0806642
MR Event Key: MRLRC012000001EE



Totland Bay Pier and *Zostera*. 4th May 2014. Gordon Bird. SS.SMp.SSgr.Zmar (Eunis A5.5331)
HOCl: Seagrass beds
Photo file name: 140504_Totland_GordonBird_DSCF6866
MR Event Key: MRLRC012000001CA



13/06/2014 13:45:53 (+1.0 hrs) Lat=50.6644 Lon=-1.57788 Alt=4ft MSL WGS 1984
Alum Bay Chalk Cliffs. Cliff. 13th June 2014. Abbi Scott. IR.HIR.KFaR.LhypR (Eunis A3.115)
BSH: High Energy Infralittoral Rock
Photo file name: 140613_Alum_AbbiScott_DSCF157822
MR Event Key: MRLRC012000001D5



Kampen Wreck. 13th June 2014. James Lucey. IR.MIR.KR.Ldig.Pid (Eunis A3.2113)
BSH: Moderate energy infralittoral rock
Photo file name: 140613_Kampen_JamesLucey_P613022603
MR Event Key: MRLRC012000001D7



04/05/2014 13:58:57 (+1.0 hrs) Lat=50.66122 Lon=-1.58812 Alt=-9ft MSL WGS 1984
Scratchell's Bay. 4th May 2014. Amy Marsden. CR.MCR.SfR.Pid (Eunis A4.231)
BSH: Moderate energy circalittoral rock.
Photo file name: 140504_ScratchellsBay_AMarsden(46)
MR Event Key: MRLRC012000001CC



Tinker Rock. 3rd October 2014. Polly Whyte. CR.MCR.CFaVS.CuSpH.As (Eunis A4.2511)
BSH: Moderate energy circalittoral rock
Photo file name: 141003 TinkerRock_Polly Whyte (28)
MR Event Key: MRLRC012000001F4



Tinker Rock. 3rd October 2014. Justin Evans. CR.HCR.XFa (Eunis A4.13)
BSH: High energy circalittoral rock
Photo file name: 141003_TinkerRock_JustinEvans_DSC0809354
MR Event Key: MRLRC012000001EE



03/10/2014 11:38:44 (+1.0 hrs) Lat=50.68587 Lon=-1.5609 Alt=-10ft MSL WGS 1984
Tinker Rock. 3rd October 2014. Chris Pirie. CR.HCR.XFa.Mol (Eunis A4.138)
BSH: High energy circalittoral rock
Photo file name: 141003_Tinker Rock_CPirie_IMG_1339
MR Event Key: MRLRC012000001F8



Scratchell's Bay. 4th May 2014. Justin Evans. CR.MCR.SfR (Eunis A4.231)
HOCl: Subtidal chalk
BSH: Moderate energy circalittoral rock
Photo file name: 140504_scratchells_JustinEvans_DSC03442
MR Event Key: MRLRC012000001CD



Alum Bay Chalk Cliffs. 13th June 2014. James Lucey. SS.SCS.ICS.SLan (Eunis A5.137)
HOCl: Sublittoral sands and gravels
BSH: Subtidal coarse sediment
Photo file name: 140613_Alum_JamesLucey_P613025814
MR Event Key: MRLRC012000001D8



Tinker Rock. 3rd October 2014. Justin Evans. SS.SCS.CCS (Eunis A5.14)
HOCl: Sublittoral sands and gravels
BSH: Subtidal coarse sediment
Photo file name: 141003_TinkerRock_JustinEvans_DSC0801303
MR Event Key: MRLRC012000001EE



Wight Spirit Patch. 22nd August 2014. Charlotte Bolton. SS.SCS.CCS.PomB (Eunis A5.141)
HOI: Sublittoral sands and gravels
BSH: Subtidal coarse sediment
Photo file name: 140822_WighttSpiritPatch_CBolton_P8225961046
MR Event Key: MRLRC01200001EB



13/06/2014 13:50:58 (+1.0 hrs) Lat=50.66445 Lon=-1.57787 Alt=5ft MSL WGS 1984
Alum Bay Chalk Cliffs. 13th June 2014. Abbi Scott.
SOI: *Ostrea edulis*
Photo file name: 140613_Alum_AbbiScott_DSCF158529
MR Event Key: MRLRC01200001D5