

Summary of Seasearch Surveys carried out in Cromer Shoal Marine Conservation Zone

Seasearch surveys consisting of 124 forms amalgamated into 84 survey events were undertaken at 12 sites within the Cromer Shoal MCZ in 2016.

The features for designation are:

Broad scale habitats

A3.1 High energy infralittoral rock

A3.2 Moderate energy infralittoral rock

A4.2 Moderate energy circalittoral rock

Habitat FOCI Subtidal chalk

Geological feature North Norfolk coast (subtidal)

Features within the area but NOT proposed for designation are:

Broad scale habitats

A5.1 Subtidal coarse sediment

Habitat FOCI

Blue mussel beds

Peat and clay exposures

Subtidal sands and gravels

Geological feature Trimmingham (subtidal)

All the features with proposed designation were found throughout the areas surveyed and all those not proposed with the exceptions of blue mussel beds (trawled after being highlighted as a possible rMCZ site) and Trimmingham subtidal (not surveyed this year).



Subtidal chalk formations at Sheringham (left) and East Runton (right), the latter with damage caused by lobster pot strike, generally due to inadequate buoy rope length.

Below are detailed: site name, dates, times, 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.

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| Rosalie wreck 25 dives between 27/06/16 and 31/10/16, 21 Observation (Michael Southwood, Atanas Petrov, Mick Bateman, Pam Andrews, Lucy Johnson, Mel Chilvers, Penny Withers, Christopher James, Michael Johnson) and 4 Survey forms (Dawn Watson, Rob Spray, Michael Southwood) Photographs and video. Center of site 52 57.133N, 01 08.001E, some dives covered up to 400m of seabed. Some dives with GPS tracker on SMB. |
| Weybourne cliffs/sluice pipe 21 dives between 23/06/16 and 31/10/16, 9 Observation (Michael Southwood, Christopher James, Mick Bateman) and 12 Survey forms (Dawn Watson, Rob Spray, Michael Southwood, Penny Withers, Charlotte Bolton) Photographs and video. Center of site 52 56.996N, 01 08.550E, some dives covered up to 350m of seabed. Some dives with GPS tracker on SMB. |
| Spalla Gap 2 dives on 26/08/2016, 1 Observation form (Christopher James) and 1 Survey form (Dawn Watson) Photographs and video. Center of site 52 57.175N 01 10.062E. Dives covered up to 350m of seabed. Dives with GPS tracker on SMB. |
| Robin's Friend 2 spring low tide surveys, between 16/03/2016 and 25/03/2016, 2 Observation forms (Michael Southwood) photographs. Center of site 52 56.838N 01 11.576E Positions from GPS. |
| Sheringham Esplanade/Burlington Gullies 16 dives between 22/07/2016 and 01/10/2016, 7 Observation (Michael Southwood, Mick Bateman, Penny Withers, Melanie Chilvers, Michael Southwood, Atanas Petrov, Christopher James) and 9 Survey forms (Dawn Watson, Rob Spray, Jon Chamberlain, Michael Southwood, Keith Hiscock) Photographs and video. Center of site 52 56.913N 01 12.482E, some dives covered up to 600m of seabed. Some dives with GPS tracker on SMB |
| Cliff Lane/Vincent Road/sewer pipe Sheringham 17 dives between 29/06/2016 and 10/09/2016, 8 Observation forms (Michael Southwood, Chris Horton, Christopher James, Chris Simms, Melaine Chilvers, Penny Withers) and 9 Survey forms (Dawn Watson, Rob Spray,) Photographs and video. Center of site 52 56.913N 01 12.482E, some dives covered up to 400m of seabed. Some dives with GPS tracker on SMB |
| West Runton 1 spring low tide survey and 5 dives between 09/03/2016 and 25/09/2016, with 3 Observation forms (Michael Southwood, Christopher James, Penny Withers) and 3 Survey forms (Dawn Watson) Photographs and video. Center of site 52 56.640N 01 15.223E. Some dives covered up to 400m of seabed. Some dives with GPS tracker on SMB |
| East Runton 12 dives between 27/07/2016 and 02/09/2016, with 7 Observation forms (Michael Southwood, Mick Bateman, Ben Moore, Rob Claxton, Mike Johnson, Penny Withers) and 5 Survey forms (Dawn Watson, Rob Spray) Photographs and video. Center of site 52 56.418N 01 16.485E. Some dives covered up to 400m of seabed. Some dives with GPS tracker on SMB |
| Cromer 4 spring low tide survey s and 8 dives between 16/03/2016 and 26/12/2016, 4 Observation forms (Michael Southwood, Dawn Watson) and 8 Survey forms (Dawn Watson, Rob Spray, Michael Southwood). Photographs and video. Center of site 52 56.186N 01 17.693E. Some dives covered up to 400m of seabed. Some dives with GPS tracker on SMB |
| Overstrand 7 dives between 20/07/2016 and 10/09/2016, 2 Observation forms (Michael Southwood) and 5 Survey forms (Dawn Watson, Michael Southwood) Photographs and video. Center of site 52 55.306N 01 20.931E. Some dives covered up to 400m of seabed. Some dives with GPS tracker on SMB |
| Ethel wreck 2 dives between 19/08/2016 and 10/09/2016, with 1 Observer form (Lucy Johnson) and 1 Survey form (Jane Harris). Photographs. Center of site 52 53.724N 01 31.692E dive position from boat GPS. |
| Nubia wreck 1 dive on 25/09/2016, with 1 Observer form (Lucy Johnson). Photographs. Center of site 52 50.590N 01 32.030E dive position from boat GPS. |

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| BSH, Habitat and Species FOCI recommended for designation in this rMCZ | Supporting evidence from Seasearch in 2016 |
| BSH High energy infralittoral rock | Overstrand, Cromer, East Runton, West Runton, Sheringham Cliff Lane/ pipe, Sheringham Esplanade/Burlington Gullies, Robin's Friend, Spalla Gap, Weybourne Cliffs |

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| BSH | Moderate energy infralittoral rock | East Runton, West Runton, Weybourne Cliffs, |
| BSH | High energy circalittoral rock | Overstrand, Cromer, East Runton, West Runton, Burlington Gullies/ Sheringham Esplanade, Weybourne Cliffs, Rosalie wreck |
| HOCl | Subtidal chalk | Overstrand, East Runton, West Runton, Sheringham Cliff Lane/pipe, Sheringham Esplanade/Burlington Gullies, Robin's Friend, Spalla Gap, Weybourne Cliffs |

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| Additional BSH, Habitat or Species FOCI recorded in this rMCZ (not included in rMCZ features list) | | Supporting evidence from Seasearch in 2016 |
| BSH | Subtidal coarse sediment | Overstrand |
| BSH | Peat and clay exposures | Overstrand |
| BSH | Subtidal sands and gravels | Ethel wreck, Overstrand, Cromer, East Runton, West Runton, , Sheringham Cliff Lane/ pipe, Sheringham Esplanade/Burlington Gullies, Robin's Friend, Spalla Gap, Weybourne Cliffs, Rosalie wreck |
| HOCl | Sabellaria | Overstrand, with smaller amounts at all chalk sites. |



Typical chalk communities on a large boulder and a very shallow gully (left top and bottom right), a hairy crab *Pilumnus hirtellus* (top right) and selection of dahlia anemones *Urticina felina* (bottom left)

Reference to Marine Recorder survey and photo data submitted

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| MR Survey Name | 2016 Seasearch Survey of Norfolk excluding the Wash |
| MR Survey Key | MRMCS01900000006 |