

## Pagham Harbour (rMCZ25.1) Evidence Review

Region	Balanced Seas	
Site Name/number	Pagham Harbour rMCZ BS25.1	
ENG Features present and proposed for inclusion within MCZ designation	BSH	-
	Habitat FOCI	<ul style="list-style-type: none"> <li>Seagrass beds</li> </ul>
	Species FOCI	<ul style="list-style-type: none"> <li><i>Gammarus insensibilis</i></li> <li><i>Caecum armoricum</i></li> <li><i>Anguilla anguilla</i></li> </ul>
ENG Features present but not proposed for inclusion within MCZ designation	BSH	<ul style="list-style-type: none"> <li>Intertidal coarse sediment</li> <li>Intertidal mud</li> <li>Moderate energy infralittoral rock</li> <li>Subtidal coarse sediment</li> <li>Subtidal mud.</li> </ul>
	Habitat FOCI	-
	Species FOCI	<ul style="list-style-type: none"> <li><i>Ostrea edulis</i></li> <li><i>Osmerus eperlanus</i></li> <li><i>Raja undulata</i></li> </ul>
Non-ENG Features (Geological/geomorphological)		<ul style="list-style-type: none"> <li>Pagham Harbour</li> </ul>

### Evidence Summary – data provided by Regional MCZ Projects

Feature	Evidence Summary	Key Sources
Seagrass beds	Presence and extent based on datapoints from MB0102.	MB0102
<i>Gammarus insensibilis</i>	Presence and extent based on datapoints from Regional Project BS	Regional project BS
<i>Caecum armoricum</i>	Presence and extent based on datapoints from Regional Project and MB0102.	Regional Project BS and MB0102
<i>Anguilla anguilla</i>	No data available	No data available

### Description of New Evidence Identified by MB0116 project

Evidence Description	Source	Feature
Data points	Marine Recorder - MBA	<i>Caecum armoricum</i>

### Evidence That Could Not Be Acquired by MB0116 project

Anecdotal evidence (and data \*) provided by NE to MB0116 project

Evidence Description	Source	Feature
Rock and thin sediment.	British Geological Society	Broadscale habitats
S.I. Rogers*, R.S. Millner* and T.A. Mead* (1998) Abundances and regional distributional data of <i>Anguilla anguilla</i>	Science Series, Technical Report, CEFAS, Lowestoft, 108: 130pp	<i>Anguilla anguilla</i>
Recent survey results from the record centre	Hampshire Records Centre	Features Unknown
Environment Agency (2012) WFD Seagrass Monitoring Programme, 2007-2011, Pagham Harbour water body.	Environment Agency (2012)*	Seagrass beds

### Confidence Assessment undertaken by MB0116 project

Feature	Presence	Extent	Condition	Boundaries (site)
Seagrass beds	High	High	Low	Moderate
<i>Gammarus insensibilis</i>	Moderate	Moderate	Low	
<i>Caecum armoricum</i>	Moderate	Moderate	Low	
<i>Anguilla anguilla</i>	No confidence	No confidence	No confidence	

'Seagrass beds' initially required a "manual check" of data and has since been re-assessed as high confidence for both presence and extent based on 63 feature data points in two distinct clustered.

Both '*Gammarus insensibilis*' and '*Caecum armoricum*' have at least 2 point records that were collected by specialists and are less than 6 years old resulting in 'moderate' confidence of presence and distribution for the 2 species.

No data were available for *Anguilla anguilla*.

The condition assessment for all the features was based on a Vulnerability Assessment and could not be improved beyond a 'low' confidence score. Project MB0102 assessed '*Caecum armoricum*' as sensitive (at moderate or high confidence) to pressures caused by a range of activities. Overlaying available activity datasets with the occurrence of this species in a GIS package found that the only relevant impacting activity which overlapped with this species was fishing using pots and associated shellfish harvesting areas which have been linked to changes in seabed type. It was judged that the activities were unlikely to lead to changes at the pressure benchmark so that that confidence in condition was assessed as low. Project MB0102 assessed '*Gammarus insensibilis*' as sensitive (at moderate or high confidence) to physical disturbance pressures caused by a range of activities. Overlaying available activity datasets with the occurrence of this species in a GIS package found that the only relevant impacting

activity which overlapped with this species was fishing using pots and associated shellfish harvesting areas. Due to the coarse resolution of this dataset and the patchy footprint of this activity confidence in condition was assessed as low.

The confidence assessment in the boundary of the site was classified as 'moderate' primarily because the site boundary was closely aligned to the boundary of the '*Caecum armoricum*', '*Gammarus insensibilis*' and 'Seagrass beds' features.