

MPA Conservation Advice – Package Updates September 2019



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Introduction

This document aims to summarise the updates that are being made to existing MPA Conservation Advice packages as part of the September 2019 publication. It does not include information on new 'draft' packages.

It does not detail every individual change/update that has taken place since the packages were last updated but highlights key changes – for example, changes to targets, or where feature descriptions have been revised.

We have endeavoured to include all amendments to packages made by area teams, however it is possible that not all are accurately reflected in this document.

It can be used, alongside the 'last updated' dates visible on the Designated Sites System (DSS) to provide additional details of what has changed.

All packages - Advice on Operations

Sensitivity assessments

The Advice on Operations has been updated to include a new activity (Horizontal Directional Drilling (HDD)) and there have been adjustments to the underlying data including the Feature-Activity, Activity-Pressure and Feature-Pressure data. The Advice on Operations has therefore been updated across all sites.

For the new activity, we've worked with specialists to identify the relevant Feature-Activity and Activity-Pressure combinations. However, we've not yet QA'd the advice for erroneous Feature-Activity-Pressure combinations so if you spot any please let us know.

General

Various other changes have been implemented in the underlying data tables, which has resulted in all Advice on Operations having been updated to reflect the best available evidence. Species names have also been updated where necessary to reflect current classifications.

All packages – Site maps

This document doesn't include reference to any updates to the site-specific feature maps or underlying evidence. We will endeavour to provide further detail in future updates.

Supplementary Advice on Conservation Objectives

All packages

Reviewed all generic supporting notes and tweaked references so that they no longer erroneously appear as bullet point lists mid-sentence.

SPAs packages only

Reviewed the 'Connectivity with supporting habitats' attribute. Where applicable, the target was updated to remove text on "...generally within # km of breeding colonies.". The generic supporting notes for the attribute have been updated to include, where appropriate, information from Thaxter et al. (2012) on the foraging range. See below for the details for each affected site.

Reviewed the generic supporting notes for both the 'Breeding population: abundance' and 'Non-breeding population: abundance' attributes. The wording has been changed from "significantly changed" to "significantly increased" to clarify that the minimum-value will only be revised upwards.

Tranche 3 MCZ Designations

All new Tranche 3 MCZ sites are now included within the Designated Sites System and we will be working on producing Conservation Advice packages for these sites. Where features have been added in to an existing site, the Conservation Advice package has been updated as necessary (full details below).

Alde-Ore Estuary SPA (UK9009112)

Package status

Package remains formal

SACO

Feature / Subfeature	Attribute	Details
Lesser black-backed gull	Connectivity with supporting habitats	Updated target wording to remove text on "...generally within # km of breeding colonies."
Little tern		Generic supporting notes for the attribute have been updated to include information from Thaxter et al. (2012) on the foraging range.
Sandwich tern		

Aln Estuary MCZ (UKMCZ0001)

Package status

Changed to formal

SACO

Feature / Subfeature	Attribute	Details
Coastal saltmarshes and saline reedbeds	Structure and function: Vegetation community composition	Updated target wording to remove square brackets and list the present vegetation types: "SM8, SM10, SM14, SM16a, SM24".
Estuarine rocky habitats	Extent and distribution	Removed square brackets from the target.
Sheltered muddy gravels	Extent and distribution	Updated site-specific supporting notes by changing 'FOCI' to 'feature'.
Intertidal mud	Distribution: presence and spatial distribution of biological communities	Updated site-specific supporting notes by changing "Macoma balthica" to "Limecola balthica".
Intertidal mud Sheltered muddy gravels Estuarine rocky habitats	Structure: Species composition of component communities	Updated site-specific supporting notes to remove the following text: "The target has been set in accordance with the MCZ General Management Approach, based on application of the vulnerability assessment, from the time of designation. The GMA has been tailored to specific attributes according to the likely impacts."

Intertidal mud	Supporting processes: Sediment movement and hydrodynamic regime	Updated target to replace the capital 'S' with a lowercase 's' within the word 'Sediment'.
Coastal saltmarshes and saline reedbeds	Supporting processes: water quality	Updated target to remove square brackets. Target also set to maintain.
Intertidal mud Sheltered muddy gravels Estuarine rocky habitats Coastal saltmarshes and saline reedbeds.	Supporting processes: water quality – dissolved oxygen	Updated square brackets from targets, and added in target of maintaining DO at ≥ 5.7 mg L ⁻¹ (at 35 salinity) for 95 % of year.

Beachy Head West MCZ (UKMCZ0002)Package status

Package remains formal

Site Information

'Designation date' and 'Moderation/boundary changes' updated to reflect that features were added to the site after the initial designation.

Blackwater Estuary (Mid-Essex Coast Phase 4) SPA (UK9009245)Package status

Package remains formal

General

Paragraph added to 'Background Information and Geography' linking this package with those for the other Mid-Essex SPAs.

SACO

Feature / Subfeature	Attribute	Details
Little tern	Connectivity with supporting habitats	Updated target wording to remove text on "...generally within # km of breeding colonies." Generic supporting notes for the attribute have been updated to include information from Thaxter et al. (2012) on the foraging range..

Breydon Water SPA (UK9009181)Package status

Package remains formal

SACO

Feature / Subfeature	Attribute	Details
Common tern	Connectivity with supporting habitats	Generic supporting notes for the attribute have been updated to include information from Thaxter et al. (2012) on the foraging range.

Chesil Beach and Stennis Ledges MCZ (UKMCZ0004)Package status

Package remains formal

General

Package updated throughout to include recently designated features – High energy circalittoral rock; Subtidal coarse sediment; Subtidal mixed sediments; Subtidal sand.

Site Information

'Designation date' and 'Moderation/boundary changes' updated to reflect that features were added to the site after the initial designation.

Chesil Beach and The Fleet SPA (UK9010091)Package status

Package remains formal

SACO

Feature / Subfeature	Attribute	Details
Little tern	Connectivity with supporting habitats	Updated target wording to remove text on "...generally within # km of breeding colonies." Generic supporting notes for the attribute have been updated to include information from Thaxter et al. (2012) on the foraging range.

Chichester and Langstone Harbours SPA (UK9011011)Package status

Package remains formal

SACO

Feature / Subfeature	Attribute	Details
Common tern	Connectivity with supporting habitats	Updated target wording to remove text on "...generally within # km of breeding colonies." Generic supporting notes for the attribute have been updated to include information from Thaxter et al. (2012) on the foraging range.
Little tern		
Sandwich tern		

Coquet Island SPA (UK9006031)Package status

Package remains formal

SACO

Feature / Subfeature	Attribute	Details
Arctic tern	Connectivity with supporting habitats	Updated target wording to remove text on "...generally within # km of breeding colonies."
Common tern		Generic supporting notes for the attribute have been updated to include information from Thaxter et al. (2012) on the foraging range.
Roseate tern		
Sandwich tern		

Coquet to St Mary's MCZ (UKMCZ0030)Package status

Changed to formal

General

The age of peat and clay exposures has been changed to 'thousands' of years old throughout the document, to improve clarity and reflect improved understanding.

Background information and geography

Changed the Background information and geography text to state the MCZ size in hectares (ha), rather than km².

SACO

Feature / Subfeature	Attribute	Details
All features	Structure: non-native species and pathogens	Site-specific supporting notes updated to reflect records of the invasive non-native species <i>Corella eumyota</i> within the MCZ. Updated for all features.

Crouch and Roach Estuaries (Mid-Essex Coast Phase 3) SPA (UK9009244)Package status

Changed to formal

General

Paragraph added to 'Background Information and Geography' linking this package with those for the other Mid-Essex SPAs.

Cumbria Coast MCZ (UKMCZ0005)Package status

Package remains formal

General

Package updated throughout to include recently designated feature – Razorbill.

Site Information

'Designation date' and 'Moderation/boundary changes' updated to reflect that features were added to the site after the initial designation.

Dengie (Mid-Essex Coast Phase 1) SPA (UK9009242)Package status

Changed to formal

General

Paragraph added to 'Background Information and Geography' linking this package with those for the other Mid-Essex SPAs.

SACO

Feature / Subfeature	Attribute	Details
Knot	Baseline population	Revise baseline using most recent 5YPM (13,789: 2013/14 – 2017/18)
Grey plover	Baseline population	Revised baseline using most recent 5YPM (8,408: 2013/14 – 2017/18)

Dungeness, Romney Marsh and Rye Bay SPA (UK9012091)Package status

Changed to formal

SACO

Feature / Subfeature	Attribute	Details
Common tern Little tern Mediterranean gull Sandwich tern	Connectivity with supporting habitats	Updated target wording to remove text on "...generally within # km of breeding colonies." Generic supporting notes for the attribute have been updated to include information from Thaxter et al. (2012) on the foraging range.

Exe Estuary SPA (UK9010081)Package status

Package remains formal

SACO

Feature / Subfeature	Attribute	Details
Slavonian Grebe	Supporting habitat: water depth	Target changed to "Maintain the depth of inshore waters currently used as feeding or moulting sites"

Falmouth Bay to St Austell Bay SPA (UK9020323)Package status

Changed to formal

Farne Islands SPA (UK9006021)

Package status

Package remains formal

SACO

Feature / Subfeature	Attribute	Details
Seabird Assemblage	Assemblage of species: diversity	Site-specific notes were changed from "During the breeding season the assemblage consists of..." to "The main component species of the assemblage are currently considered to be..."
Arctic tern Common tern Guillemot Roseate tern Sandwich tern	Connectivity with supporting habitats	Updated target wording to remove text on "...generally within # km of breeding colonies." Generic supporting notes for the attribute have been updated to include information from Thaxter et al. (2012) on the foraging range.

Flamborough Head SAC (UK0013036)Package status

Changed to formal. Small changes to wording and package detail as below. No changes to targets.

SACO

Feature / Subfeature	Attribute	Details
Intertidal rocky reef	Distribution: presence and spatial distribution of biological communities	Updated to include 2018 survey. Conclusion is that biotope type and distribution is broadly unaltered. Noted the addition of the himanthalia biotope
Intertidal rocky reef	Composition of component communities	Changed wording to direct to 'site information – reef' for further notes
Reef	Distribution: presence and spatial distribution of biological communities	Added some text referring to 2018 survey and slight rewording on the lack of data for the circa and infra community distribution.
All features	Physico-chemical properties	Added Cefas hyperlink.

Folkestone Pomerania MCZ (UKMCZ0006)Package status

Package remains formal

Site Information

Designation date updated for consistency

Foulness (Mid-Essex Coast Phase 5) SPA (UK9009246)

Package status

Changed to formal

General

Paragraph added to 'Background Information and Geography' linking this package with those for the other Mid-Essex SPAs.

SACO

Feature / Subfeature	Attribute	Details
Common tern Little tern Sandwich tern	Connectivity with supporting habitats	Updated target wording to remove text on "...generally within # km of breeding colonies." Generic supporting notes for the attribute have been updated to include information from Thaxter et al. (2012) on the foraging range.
All features	Various	Minor updates to wording and spelling errors corrected.
Little tern	Predation - all habitats	The target justification updated as follows: The target has been set due to a lack of evidence that the feature is currently being impacted by predation. However, no breeding little terns have been recorded since 2001, so it is recognised that predation may be a significant risk that will require active intervention.
Ringed plover	Predation - all habitats	The target justification updated as follows: The target has been set due to a lack of evidence that the feature is currently being impacted by predation. However, low number of breeding ringed plovers have been recorded for over a decade, so it is recognised that predation may be a significant risk that will require active intervention.
Sandwich tern	Predation - all habitats	The target justification updated as follows: The target has been set due to a lack of evidence that the feature is currently being impacted by predation. However, no breeding sandwich terns have been recorded since 1986, so it is recognised that predation may be a significant risk that will require active intervention.
Avocet	Predation - all habitats	The target justification updated as follows: The target has been set due to a lack of evidence that the feature is currently being impacted by predation, however, it is recognised that predation may be a significant risk that will require active intervention.
Common tern	Supporting habitat: conservation measures	Changed to 'Restore' recognising that the population is well below favourable status and active intervention is required to address coastal squeeze and provide suitable habitat for this species.
Little tern	Supporting habitat: conservation measures	Changed to 'Restore' recognising that the population is well below favourable status and active intervention is required to address coastal squeeze and provide suitable habitat for this species.
Sandwich tern	Supporting habitat: conservation measures	Changed to 'Restore' recognising that the population is well below favourable status and active intervention is required to address coastal squeeze and provide suitable habitat for this species.

Ringed plover	Supporting habitat: conservation measures	Changed to 'Restore' recognising that the population is well below favourable status and active intervention is required to address coastal squeeze and provide suitable habitat for this species.
Dark-bellied brent goose	Supporting habitat: conservation measures	Text added: The seagrass beds provide an important feeding resource for dark-bellied brent geese and it is unclear how rising sea levels and sedimentation processes will impact on the extent and quality of this habitat within the site. In addition to this, operational constraints on Foulness can limit grazing management over a large extent of the grazing marsh resource and this can significantly reduce the availability of a low sward within the grazing marsh suitable for brent geese.
Knot	Supporting habitat: conservation measures	Changed to 'Restore' recognising that the population is currently favourable status. However, it is recognised in the Site specifics section that active intervention is required to address coastal squeeze to maintain a suitable extent and quality of habitat for this species.

Fylde MCZ (UKMCZ0007)

Package status

Changed to formal

General

Corrected typos throughout advice.

Amended the accuracy of Site Area from '26000 ha' to '26059.58 ha' (2 decimal places).

'Designation date' and 'Moderation/boundary changes' updated to reflect that a new feature was added to the site after the initial designation.

Additional hyperlink – Fylde MCZ Designation (Amendment) Order 2016 – added to the 'Further Information' section.

Feature Description

Feature	Details
Subtidal mud	Paragraph description markers removed. Reference to 'Shell Flat and Lune Deep SCI' updated to 'Shell Flat and Lune Deep Special Area of Conservation (SAC)'.
Subtidal sand	Paragraph description markers removed.

SACO

Feature / Subfeature	Attribute	Details
Subtidal mud	Extent and distribution	Additional sentence added to site specific supporting notes: 'The extent of this habitat within the site is estimated at 4414.70 ha (Envision Mapping Ltd., 2014).' Minor amendments to Site-specific supporting notes to improve clarity
Subtidal sand	Extent and distribution	Additional sentence added to site specific supporting notes: 'The extent of this habitat within the site is estimated at 21627.06 ha (Envision Mapping Ltd., 2014).'

		Minor amendments to Site-specific supporting notes to improve clarity
Subtidal mud Subtidal sand	Distribution: presence and spatial distribution of biological communities	Minor amendments to Site-specific supporting notes to improve clarity
Subtidal mud Subtidal sand	Structure: sediment composition and distribution	Minor amendments to Site-specific supporting notes to improve clarity
Subtidal mud Subtidal sand	Structure: species composition of component communities	Minor amendments to Site-specific supporting notes to improve clarity
Subtidal sand	Supporting processes: energy/exposure	Minor amendments to Site-specific supporting notes to improve clarity
Subtidal mud Subtidal sand	Supporting processes: physico-chemical properties	Minor amendments to Site-specific supporting notes to improve clarity
Subtidal mud Subtidal sand	Supporting processes: sediment contaminants	Minor amendments to Site-specific supporting notes to improve clarity
Subtidal mud Subtidal sand	Supporting processes: sediment movement and hydrodynamic regime	Minor amendments to Site-specific supporting notes to improve clarity
Subtidal mud Subtidal sand	Supporting processes: water quality – dissolved oxygen	Minor amendments to Site-specific supporting notes to improve clarity
Subtidal mud Subtidal sand	Supporting processes: water quality - turbidity	Minor amendments to Site-specific supporting notes to improve clarity

Gibraltar Point SPA (UK9008022)Package status

Package remains formal

SACO

Feature / Subfeature	Attribute	Details
Little tern	Connectivity with supporting habitats	Updated target wording to remove text on "...generally within # km of breeding colonies." Generic supporting notes for the attribute have been updated to include information from Thaxter et al. (2012) on the foraging range.

Great Yarmouth North Denes SPA (UK9009271)Package status

Changed to formal

SACO

Feature / Subfeature	Attribute	Details
Little tern	Connectivity with supporting habitats	Updated target wording to remove text on "...generally within # km of breeding colonies."

		Generic supporting notes for the attribute have been updated to include information from Thaxter et al. (2012) on the foraging range.
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Hamford Water SPA (UK9009131)Package status

Changed to formal

SACO

Feature / Subfeature	Attribute	Details
Little tern	Connectivity with supporting habitats	Updated target wording to remove text on "...generally within # km of breeding colonies." Generic supporting notes for the attribute have been updated to include information from Thaxter et al. (2012) on the foraging range.
Ringed plover	Disturbance caused by human activity	Changed text in supplementary advice from "Over-wintering birds are especially vulnerable to disturbance" to "The over-wintering period for birds extends from August to April. Those passing through the site in autumn (August/September) and spring (late-Feb to April) typically respond to disturbance events at greater distances".
Grey plover	Disturbance caused by human activity	Changed text in supplementary advice from "Over-wintering birds are especially vulnerable to disturbance" to "The over-wintering period for birds extends from August to April. Those passing through the site in autumn (August/September) and spring (late-Feb to April) typically respond to disturbance events at greater distances".
Black-tailed godwit	Disturbance caused by human activity	Changed text in supplementary advice from "Over-wintering birds are especially vulnerable to disturbance" to "The over-wintering period for birds extends from August to April. Those passing through the site in autumn (August/September) and spring (late-Feb to April) typically respond to disturbance events at greater distances".
Redshank	Disturbance caused by human activity	Changed text in supplementary advice from "Over-wintering birds are especially vulnerable to disturbance" to "The over-wintering period for birds extends from August to April. Those passing through the site in autumn (August/September) and spring (late-Feb to April) typically respond to disturbance events at greater distances".

Hartland Point to Tintagel MCZ (UKMCZ0034)Package status

Changed to formal

General

Extent figures updated throughout package including Designated Area in Site Information, Feature Descriptions and Background Information

SACO

Feature / Subfeature	Attribute	Details
Low energy intertidal rock	Extent and distribution	Target information and Site-specific supporting notes updated to reflect current GI evidence data
Moderate energy intertidal rock	Extent and distribution	Target information and Site-specific supporting notes updated to reflect current GI evidence data
Intertidal coarse sediment	Extent and distribution	Target information and Site-specific supporting notes updated to reflect current GI evidence data
Moderate energy infralittoral rock	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Subtidal sand	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Subtidal coarse sediment	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Intertidal sand and muddy sand	Extent and distribution	Target information and Site-specific supporting notes updated to reflect current GI evidence data
High energy circalittoral rock	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
High energy infralittoral rock	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
High energy intertidal rock	Extent and distribution	Target information and Site-specific supporting notes updated to reflect current GI evidence data
Moderate energy circalittoral rock	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Coastal saltmarshes and saline reedbeds	Extent and distribution	Target information and Site-specific supporting notes updated to reflect current GI evidence data
Honeycomb worm (<i>Sabellaria alveolata</i>) reefs	Extent and distribution	Target information and Site-specific supporting notes updated to reflect current GI evidence data

Holderness Inshore MCZ (UKMCZ0035)Package status

Package remains draft

General

Minor update to a typo in the SACO. This was the only alteration made in this cycle.

Humber Estuary SAC (UK0030170)Package status

Changed to formal. Some minor changes were made to feature descriptions, largely typos or an update to a reference.

SACO

Feature / Subfeature	Attribute	Details
Subtidal mud	Sediment composition and distribution	Updated wording to reflect our available evidence.
Subtidal mud	Species composition of component communities	Updated wording to reflect our available evidence.
Subtidal sand	Species composition of component communities	Updated wording to reflect our available evidence.
Subtidal coarse sediment	Sediment contaminants	Amended an incorrect reference.
Grey seal	biological connectivity	Changed written reference to full Endnote reference.
River lamprey	Estuarine population	Tidied this up as some of the site specific wording had ended up in the target text box.
Sea lamprey	Estuarine population	Tidied this up as some of the site specific wording had ended up in the target text box.
Embryonic dunes Shifting dunes Fixed dunes	Extent	Added figure based on extent at classification. Current extent is not available. Added a brief description based on NE staff knowledge of site.
Embryonic dunes Shifting dunes Fixed dunes	Distribution	Precautionary target of restore selected based on recent field observations.
Embryonic dunes Shifting dunes Fixed dunes	Bare sand	Placeholder text awaiting survey results.
Embryonic dunes Shifting dunes Fixed dunes	Undesirable species	Precautionary target of restore selected based on recent field observations.
Embryonic dunes Shifting dunes Fixed dunes	Soils	Placeholder text awaiting survey results.
Embryonic dunes Shifting dunes Fixed dunes	Zonation	Precautionary target of restore selected based on recent field observations.
Embryonic dunes Shifting dunes Fixed dunes	Adaptation and resilience	Precautionary target of restore selected based on recent field observations.

Embryonic dunes Shifting dunes Fixed dunes Dunes with Hippophae rhamnoides	Wind-blown processes	Target set to maintain based on staff field observations.
Embryonic dunes Shifting dunes Fixed dunes Dunes with Hippophae rhamnoides	Air Quality	Set to restore for all sand dune feature in the Humber SAC based on feature sensitivity to nitrogen deposition.
Dunes with Hippophae rhamnoides	All attributes	All targets for this feature have been set to maintain as there are no obvious issues based on field observations. Report to follow in 2020 so subject to change.

Humber Estuary SPA (UK9006111)

Package status

Changed to formal

SACO

Feature / Subfeature	Attribute	Details
Bittern (Breeding)	Population abundance	<ul style="list-style-type: none"> - Updated figure in target from 2 to 7. - Updated site specific wording in the supporting notes column to reflect revised target.
Bittern (Breeding)	Disturbance caused by human activity	Corrected typos and added punctuation for clarity.
Bittern (Breeding)	Supporting habitat: Extent	Changed wording for clarity.
Bittern (Breeding)	Food availability	Changed typo and formatting.
Bittern (Breeding)	Vegetation characteristics	Added italics to Latin name.
Bittern (Breeding)	Supporting processes: water quality-contaminants	Updated references
Bittern (Breeding)	Supporting processes: water quality – dissolved oxygen	Updated wording for clarity.
Marsh harrier (Breeding)	Population abundance	<ul style="list-style-type: none"> - Updated figure in target to 21 from 10. - Updated site specific wording in the supporting notes column to reflect revised target.
Marsh harrier (Breeding)	Human disturbance	<ul style="list-style-type: none"> - Added text to contextualise target and added new reference from Rare Breeding Birds panel.
Marsh harrier (Breeding)	Predation	<ul style="list-style-type: none"> - Rewording and updated information including rare breeding bird panel reference
Marsh harrier (Breeding)	Supporting habitat	Deleted duplicate text
Marsh harrier (Breeding)	Air quality	Added latest APIS information and added hyperlink to APIS website.
Marsh harrier (Breeding)	Connectivity	Small update to text for clarity.

Avocet (Breeding)	Population abundance	- Updated site specific notes in the supporting notes column – rewording text
Avocet (Breeding)	Connectivity	There was no text for this attribute, added text to state there are no known issues on the Humber for this feature.
Avocet (Breeding)	Disturbance caused by human activity.	- Deleted duplicate text Added sentence to say Avocet are not known to be significantly impacted.
Avocet (Breeding)	Predation	Added text describing increased predation at Reads island in 2018.
Avocet (Breeding)	Air quality	Set to maintain. Levels are actually within the critical threshold range and a restore target could be justified but left as maintain as avocet have done well on the Humber in recent years and this is not thought to be impacting the feature.
Little Tern (Breeding)	Population abundance	- Updated target from maintain to restore – this was an error which should've been picked up earlier. - Updated wording in site specific notes and updated references.
Shelduck	Population abundance	Minor tweaks to site supporting text – to make it more readable.
Knot	Population abundance	Updated target to include passage figure which was missing.
Knot	Air quality	Updated to reflect latest APIS data. Target is unchanged as Maintain.
Avocet (non-breeding)	Population abundance	Minor tweaks to site supporting notes to add clarity.
Golden Plover	Population abundance	Minor tweaks to site supporting notes, to tidy it up.
Dunlin	Population abundance	- Updated figure in target and changed target to 'restore'. - Updated site specific wording in the supporting notes column to reflect revised target.
Ruff	Population abundance	- Minor tweaks to site supporting notes, to tidy it up. - Restore target is still appropriate.
Black tailed	Population abundance	- Minor tweaks to site supporting notes, to tidy it up and making it up to date. - Updated target justification using generic justification – as current justification does not make sense.
Bar tailed godwit	Population abundance	- Updated figure in target and changed target to Restore. - Updated site specific wording in the supporting notes column to reflect revised target. -
Redshank	Population abundance	- Minor tweaks to site supporting notes, to tidy it up.
Waterbird Assemblage	Air quality	- Site-relevant critical loads are not available for all the components of this feature – updated with site wide APIS figures.

Isles of Scilly Complex SAC (UK0013694)

Package status

Changed to formal

SACO

Feature / Subfeature	Attribute	Details
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Sandbanks which are slightly covered by sea water all the time	Structure: sediment composition and distribution	Site-specific supporting notes updated
Subtidal sand	Structure: sediment composition and distribution	Site-specific supporting notes updated
Subtidal mixed sediments	Structure: sediment composition and distribution	Site-specific supporting notes updated
Subtidal coarse sediments	Structure: sediment composition and distribution	Site-specific supporting notes updated

Isles of Scilly: Bishop to Crim MCZ (UKMCZ0008-01)Package status

Package remains formal

Site Information

Designation date updated for consistency

Isles of Scilly: Bristows to the Stones MCZ (UKMCZ0008-02)Package status

Package remains formal

General

Package updated throughout to include recently designated features – Moderate energy circalittoral rock; Subtidal coarse sediment.

Site Information

'Designation date' and 'Moderation/boundary changes' updated to reflect that features were added to the site after the initial designation.

Isles of Scilly: Gilstone to Gorregan MCZ (UKMCZ0008-03)Package status

Package remains formal

Site Information

Designation date updated for consistency

Isles of Scilly: Hanjague to Deep Ledge MCZ (UKMCZ0008-04)Package status

Package remains formal

Site Information

Designation date updated for consistency

Isles of Scilly: Higher Town MCZ (UKMCZ0008-05)

Package status

Package remains formal

General

Package updated throughout to include recently designated features – Stalked jellyfish (*Calvadosia cruxmelitensis*). Tweaked Latin names in Conservation Objectives box.

Site Information

'Designation date' and 'Moderation/boundary changes' updated to reflect that features were added to the site after the initial designation

Isles of Scilly: Lower Ridge to Innisvouls MCZ (UKMCZ0008-06)

Package status

Package remains formal

Site Information

Designation date updated for consistency

Isles of Scilly: Men a Vaur to White Island MCZ (UKMCZ0008-07)

Package status

Package remains formal

General

Package updated throughout to include recently designated features – Giant goby (*Gobius cobitis*).

Site Information

'Designation date' and 'Moderation/boundary changes' updated to reflect that features were added to the site after the initial designation.

Latin names in 'Site Description' updated (e.g. *Lucernariopsis campanulata* changed to *Calvadosia campanulata*)

Isles of Scilly: Peninnis to Dry Ledge MCZ (UKMCZ0008-08)

Package status

Package remains formal

General

Package updated throughout to include recently designated features – Stalked jellyfish (*Calvadosia cruxmelitensis*). Tweaked Latin names in Conservation Objectives box.

Site Information

'Designation date' and 'Moderation/boundary changes' updated to reflect that features were added to the site after the initial designation

Isles of Scilly: Plympton to Spanish Ledge MCZ (UKMCZ0008-09)

Package status

Package remains formal

Site Information

Designation date updated for consistency

Isles of Scilly: Smith Sound Tide Swept Channel MCZ (UKMCZ0008-10)

Package status

Package remains formal

Site Information

Designation date updated for consistency

Latin names in 'Site Description' updated (e.g. *Lucernariopsis campanulata* changed to *Calvadosia campanulata*)

Isles of Scilly: Tean MCZ (UKMCZ0008-11)

Package status

Package remains formal

Site Information

Designation date updated for consistency

Kingmere MCZ (UKMCZ0009)

Package status

Package remains formal

Site Information

Designation date updated for consistency

Lindisfarne SPA (UK9006011)

Package status

Changed to formal

SACO

Feature / Subfeature	Attribute	Details
Little tern	Connectivity with supporting habitats	Updated target wording to remove text on "...generally within # km of breeding colonies."
Roseate tern		Generic supporting notes for the attribute have been updated to include information from Thaxter et al. (2012) on the foraging range.

Lizard Point SAC (UK0030374)

Package status

Changed to formal

General

Extent figures updated throughout package including Designated Area in Site Information.

SACO

Feature / Subfeature	Attribute	Details
Reefs	Extent and distribution	Target information and Site-specific supporting notes updated to reflect current GI evidence data

Lundy MCZ (UKMCZ0010)Package status

Package remains formal

Site Information

Designation date updated for consistency

Seasonality

Corrected any issue that meant that the Advice on Seasonality for the Spiny lobster Feature was not appearing.

Medway Estuary MCZ (UKMCZ0011)Package status

Package remains formal

General

Package updated throughout to include recently designated features – Smelt (*Osmerus eperlanus*).

Site Information

'Designation date' and 'Moderation/boundary changes' updated to reflect that features were added to the site after the initial designation

Medway Estuary and Marshes SPA (UK9012031)Package status

Package remains formal

SACO

Feature / Subfeature	Attribute	Details
Little tern	Connectivity with supporting habitats	Updated target wording to remove text on "...generally within # km of breeding colonies." Generic supporting notes for the attribute have been updated to include information from Thaxter et al. (2012) on the foraging range.

Mersey Narrows and North Wirral Foreshore SPA (UK9020287)Package status

Package remains formal

SACO

Feature / Subfeature	Attribute	Details
Common tern - Breeding	Connectivity with supporting habitats	Updated target wording to remove text on "...generally within # km of breeding colonies." Generic supporting notes for the attribute have been updated to include information from Thaxter et al. (2012) on the foraging range.
Common tern – Non-breeding	Connectivity with supporting habitats	Updated target wording to remove text on "...generally within # km of breeding colonies." Generic supporting notes for the attribute have not been updated as the information from Thaxter et al. (2012) related to breeding seabirds only.

Minsmere-Walberswick SPA (UK9009101)Package status

Changed to formal

SACO

Feature / Subfeature	Attribute	Details
Little tern	Connectivity with supporting habitats	Generic supporting notes for the attribute have been updated to include information from Thaxter et al. (2012) on the foraging range.

Morecambe Bay and Duddon Estuary SPA (UK9020326)Package status

Changed to formal

Feature Description

Feature / Subfeature	Details
Knot	Added sentence to say: 'The upper seawall adjacent to Heysham heliport is also an important roost site for knot, which is located just outside of the site boundary (Marsh et al., 2012). Additional roost sites may occur outside of the site (Marsh et al., 2012).'
Oystercatcher	Added sentence to say: 'The upper seawall adjacent to Heysham heliport is also an important roost site for oystercatcher, which is located just outside of the site boundary (Marsh et al., 2012). Additional roost sites may occur outside of the site (Marsh et al., 2012).'
Bar-tailed godwit, Black-tailed godwit, Curlew, Dunlin, Grey plover, Pintail, Redshank, Ringed plover, Sanderling, Shelduck, Turnstone	Added sentence to say: 'Additional roost sites may occur outside of the site (Marsh et al., 2012).'

SACO

Feature / Subfeature	Attribute	Details
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Knot	Supporting habitat: extent and distribution of supporting habitat for the non-breeding breeding season	Added sentence to Site Specific Supporting notes to say: 'Knot are known to use habitats outside of the SPA, with an important roost site located on the upper seawall adjacent to Heysham heliport (Marsh et al., 2012).'
Oystercatcher	Supporting habitat: extent and distribution of supporting habitat for the non-breeding breeding season	Added sentence to Site Specific Supporting notes to say: 'Oystercatcher are known to use habitats outside of the SPA, with an important roost site located on the upper seawall adjacent to Heysham heliport (Marsh et al., 2012).'
Common tern Herring gull Lesser black-backed gull Little tern Sandwich tern	Connectivity with supporting habitats	Updated target wording to remove text on "...generally within # km of breeding colonies." Generic supporting notes for the attribute have been updated to include information from Thaxter et al. (2012) on the foraging range.

Mounts Bay MCZ (UKMCZ0036)Package status

Changed to formal

SACO

Feature / Subfeature	Attribute	Details
High energy intertidal rock	Extent and distribution	Target information and Site-specific supporting notes updated to reflect current GI evidence data
Moderate energy intertidal rock	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
High energy infralittoral rock	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Intertidal coarse sediment	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Intertidal sand and muddy sand	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Seagrass beds	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Subtidal sand	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data

Newquay and The Gannel MCZ (UKMCZ0037)Package status

Changed to formal

General

Extent figures updated throughout package including Designated Area in Site Information, Feature Descriptions and Background Information

SACO

Feature / Subfeature	Attribute	Details
High energy intertidal rock	Extent and distribution	Target information and Site-specific supporting notes updated to reflect current GI evidence data
Moderate energy infralittoral rock	Extent and distribution	Target information and Site-specific supporting notes updated to reflect current GI evidence data
High energy infralittoral rock	Extent and distribution	Target information and Site-specific supporting notes updated to reflect current GI evidence data
Subtidal coarse sediment	Extent and distribution	Target information and Site-specific supporting notes updated to reflect current GI evidence data
Subtidal sand	Extent and distribution	Target information and Site-specific supporting notes updated to reflect current GI evidence data

North Norfolk Coast SPA (UK9009031)Package status

Package remains formal

SACO

Feature / Subfeature	Attribute	Details
Common tern Little tern Sandwich tern	Connectivity with supporting habitats	Updated target wording to remove text on "...generally within # km of breeding colonies." Generic supporting notes for the attribute have been updated to include information from Thaxter et al. (2012) on the foraging range.

Northumberland Marine SPA (UK9020325)Package status

Package remains formal

SACO

Feature / Subfeature	Attribute	Details
Arctic tern Common tern Guillemot Little tern Puffin Roseate tern Sandwich tern	Connectivity with supporting habitats	Updated target wording to remove text on "...generally within # km of breeding colonies." Generic supporting notes for the attribute have been updated to include information from Thaxter et al. (2012) on the foraging range.

Northumbria Coast SPA (UK9006131)Package status

Package remains formal

SACO

Feature / Subfeature	Attribute	Details
Arctic tern Little tern	Connectivity with supporting habitats	Updated target wording to remove text on "...generally within # km of breeding colonies." Generic supporting notes for the attribute have been updated to include information from Thaxter et al. (2012) on the foraging range.

Outer Thames Estuary SPA (UK9020309)Package status

Changed to formal

SACO

Feature / Subfeature	Attribute	Details
Common tern Little tern	Connectivity with supporting habitats	Updated target wording to remove text on "...generally within # km of breeding colonies." Generic supporting notes for the attribute have been updated to include information from Thaxter et al. (2012) on the foraging range.

Padstow Bay and Surrounds MCZ (UKMCZ0012)Package status

Package remains formal

Site Information

Designation date updated for consistency

Pagham Harbour MCZ (UKMCZ0013)Package status

Package remains formal

Site Information

Designation date updated for consistency

Pagham Harbour SPA (UK9012041)Package status

Package remains formal

SACO

Feature / Subfeature	Attribute	Details
Common tern Little tern	Connectivity with supporting habitats	Updated target wording to remove text on "...generally within # km of breeding colonies." Generic supporting notes for the attribute have been updated to include information from Thaxter et al. (2012) on the foraging range.

Plymouth Sound and Estuaries SAC (UK0013111)Package status

Package remains formal

Feature Description

Feature / Subfeature	Details
Allis shad	Corrected a reference that wasn't appearing as a pop-up

Poole Harbour SPA (UK9010111)Package status

Package remains formal

SACO

Feature / Subfeature	Attribute	Details
Common tern	Connectivity with supporting habitats	Updated target wording to remove text on "...generally within # km of breeding colonies."
Mediterranean gull		Generic supporting notes for the attribute have been updated to include information from Thaxter et al. (2012) on the foraging range.
Sandwich tern		

Poole Rocks MCZ (UKMCZ0014)Package status

Package remains formal

GeneralPackage updated throughout to include recently designated features – Black seabream (*Spondyliosoma cantharus*).Site Information

‘Designation date’ and ‘Moderation/boundary changes’ updated to reflect that features were added to the site after the initial designation

Portsmouth Harbour SPA (UK9011051)Package status

Package remains formal

Feature Description

Feature / Subfeature	Details
Red-breasted merganser	Corrected a reference that wasn't appearing as a pop-up

Ribble and Alt Estuaries SPA (UK9005103)Package status

Package remains formal

SACO

Feature / Subfeature	Attribute	Details
Common tern	Connectivity with supporting habitats	Updated target wording to remove text on "...generally within # km of breeding colonies."
Lesser black-backed gull		Generic supporting notes for the attribute have been updated to include information from Thaxter et al. (2012) on the foraging range.

Shell Flat and Lune Deep SAC (UK0030376)Package status

Changed to formal

General

Corrected typos throughout advice

Skerries Bank and Surrounds MCZ (UKMCZ0015)Package status

Changed to formal

General

Extent figures updated throughout package including Designated Area in Site Information.

SACO

Feature / Subfeature	Attribute	Details
High energy intertidal rock	Extent and distribution	Target information and Site-specific supporting notes updated to reflect current GI evidence data
Moderate energy intertidal rock	Extent and distribution	Target information and Site-specific supporting notes updated to reflect current GI evidence data
High energy infralittoral rock	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Moderate energy infralittoral rock	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Moderate energy circalittoral rock	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Subtidal coarse sediment	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Subtidal sand	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Subtidal mud	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Pink sea-fan (<i>Eunicella verrucosa</i>)	Supporting habitat: extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data

Solent and Southampton Water SPA (UK9011061)Package status

Package remains formal

SACO

Feature / Subfeature	Attribute	Details
Common tern Little tern Mediterranean gull Roseate tern Sandwich tern	Connectivity with supporting habitats	Updated target wording to remove text on "...generally within # km of breeding colonies." Generic supporting notes for the attribute have been updated to include information from Thaxter et al. (2012) on the foraging range.

South Dorset MCZ (UKMCZ0022)Package status

Package remains draft

General

Package updated throughout to include recently designated features – High energy circalittoral rock.

Site Information

‘Designation date’ and ‘Moderation/boundary changes’ updated to reflect that features were added to the site after the initial designation

Tamar Estuary Sites MCZ (UKMCZ0016)Package status

Package remains formal

Site Information

Designation date updated for consistency

Feature Description

Feature / Subfeature	Details
Smelt	Removed the following sentence "The Tamar Estuary is the only site currently designated to protect this species" as no longer correct

Teesmouth and Cleveland Coast SPA (UK9006061)Package status

Package remains draft

SACO

Feature / Subfeature	Attribute	Details
Little tern	Connectivity with supporting habitats	Generic supporting notes for the attribute have been updated to include information from Thaxter et al. (2012) on the foraging range.

Thanet Coast SAC (UK0013107)

Package status

Changed to formal

Thanet Coast MCZ (UKMCZ0017)

Package status

Package remains formal

General

Package updated throughout to include recently designated features – Stalked jellyfish (*Halicystus* spp).

Site Information

'Designation date' and 'Moderation/boundary changes' updated to reflect that features were added to the site after the initial designation

Thanet Coast and Sandwich Bay SPA (UK9012071)

Package status

Changed to formal

SACO

Feature / Subfeature	Attribute	Details
Little tern	Connectivity with supporting habitats	Updated target wording to remove text on "...generally within # km of breeding colonies." Generic supporting notes for the attribute have been updated to include information from Thaxter et al. (2012) on the foraging range.

The Manacles MCZ (UKMCZ0018)

Package status

Package remains formal

General

'Designation date' and 'Moderation/boundary changes' updated to reflect that new features were added to the site after the initial designation.

The Needles MCZ (UKMCZ0040)

Package status

Package remains draft

Site Information

Designation date updated for consistency

The Wash SPA (UK9008021)

Package status

Package remains formal

SACO

Feature / Subfeature	Attribute	Details
Common tern Little tern	Connectivity with supporting habitats	Updated target wording to remove text on "...generally within # km of breeding colonies." Generic supporting notes for the attribute have been updated to include information from Thaxter et al. (2012) on the foraging range.
Knot	Non-breeding population: abundance	Site specific note has been updated.
Oystercatcher	Supporting habitat: food availability	Site specific note has been updated.

Torbay MCZ (UKMCZ0019)Package status

Package remains draft

Site Information

'Designation date' and 'Moderation/boundary changes' updated to reflect that features were added to the site after the initial designation. Designated Area updated

Feature Descriptions

Added for tranche 2 feature Peat & Clay exposures and new tranche 3 features Peacock's tail (*Padina pavonica*) and Subtidal coarse sediment. Extents updated.

SACO

Feature / Subfeature	Attribute	Details
Peat & Clay exposures	All attributes	Tranche 2 feature. Target information and site specific supporting notes added.
Peacock's tail (<i>Padina pavonica</i>)	All attributes	Tranche 3 feature. Target information and site specific supporting notes added.
Subtidal coarse sediment	All attributes	Tranche 3 feature. Target information and site specific supporting notes added.
All Features	Supporting processes: sediment movement & hydrodynamic regime	Additional information added to site specific supporting notes
All Features	Supporting processes: energy/exposure	Additional information added to site specific supporting notes
Low energy intertidal rock	Extent and distribution	Target information and Site-specific supporting notes updated to reflect current GI evidence data
Moderate energy intertidal rock	Extent and distribution	Target information and Site-specific supporting notes updated to reflect current GI evidence data
Intertidal coarse sediment	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Moderate energy infralittoral rock	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data

Intertidal mixed sediments	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Subtidal coarse sediment	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Intertidal sand and muddy sand	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Intertidal mud	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Seagrass beds	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Subtidal mud	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data

Upper Fowey and Pont Pill MCZ (UKMCZ0020)

Package status

Changed to formal

General

Extent figures updated throughout package including Designated Area in Site Information and Background Information

SACO

Feature / Subfeature	Attribute	Details
Coastal saltmarshes and saline reedbeds	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Estuarine rocky habitats	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Intertidal coarse sediment	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Intertidal mud	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Intertidal sand and muddy sand	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Low energy intertidal rock	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Sheltered muddy gravels	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
All features	Structure: Non-native species and pathogens	Site-specific supporting notes updated

Whitsand and Looe Bay MCZ (UKMCZ0021)

Package status

Package remains draft

Site Information

'Designation date' and 'Moderation/boundary changes' updated to reflect that features were added to the site after the initial designation

Feature Descriptions

Added for MCZ tranche 3 features Giant goby (*Gobius cobitis*), Moderate energy circalittoral rock, Stalked jellyfish (*Calvadosia campanulata*) and Stalked jellyfish (*Calvadosia cruxmelitensis*). Extents updated.

SACO

Feature / Subfeature	Attribute	Details
Giant goby (<i>Gobius cobitis</i>)	All attributes	Tranche 3 feature. Target information and site specific supporting notes added.
Moderate energy circalittoral rock	All attributes	Tranche 3 feature. Target information and site specific supporting notes added.
Stalked jellyfish (<i>Calvadosia campanulata</i>)	All attributes	Tranche 3 feature. Target information and site specific supporting notes added.
Stalked jellyfish (<i>Calvadosia cruxmelitensis</i>)	All attributes	Tranche 3 feature. Target information and site specific supporting notes added.
All Features	Supporting processes: sediment movement & hydrodynamic regime	Additional information added to site specific supporting notes
All Features	Supporting processes: energy/exposure	Additional information added to site specific supporting notes
Stalked jellyfish (<i>Haliclystus spp</i>)	Structure: Non-native species and pathogens	Additional information added to site specific supporting notes
Pink sea-fan (<i>Eunicella verrucosa</i>)	Distribution: presence and spatial distribution of biological communities	Additional information added to site specific supporting notes
Pink sea-fan (<i>Eunicella verrucosa</i>)	Structure: species composition of component communities	Additional information added to site specific supporting notes
Pink sea-fan anemone (<i>Amphianthus dohrnii</i>)	Distribution: presence and spatial distribution of biological communities	Additional information added to site specific supporting notes
Pink sea-fan anemone (<i>Amphianthus dohrnii</i>)	Structure: species composition of component communities	Additional information added to site specific supporting notes
High energy intertidal rock	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Moderate energy intertidal rock	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Low energy intertidal rock	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Intertidal coarse sediment	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Intertidal sand and muddy sand	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Seagrass beds	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Subtidal coarse sediment	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
Subtidal sand	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data

Moderate energy circalittoral rock	Extent and distribution	Site-specific supporting notes updated to reflect current GI evidence data
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