



Marine
Management
Organisation

Stage 3 Marine Protected Areas: Guidance note for online WebApps



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Stage 3 Marine Protected Areas: Guidance note for online WebApps

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1 Introduction

To support the formal consultation on management measures for Stage 3 marine protected areas (MPAs), MMO have developed interactive WebApps.

This document provides guidance on how to access and make the most of each WebApp, to help users provide informed consultation responses.

To ensure compliance with INSPIRE regulations¹, all spatial data and coordinates are provided in the European Terrestrial Reference System 1989 (ETRS89) and maps and WebApps are displayed in the projection ETRS89 Lambert Azimuth Equal Area (ETRS89 LAEA). This also ensures the complex marine environment is displayed in a clear and consistent manner. While the World Geodetic System 1984 (WGS84) is more commonly used by fishers, the systems are compatible. Any GPS WGS84 positions can be plotted on ETRS89 maps and vice versa.

2 How do I...

2.1 Access the WebApps?

The WebApps, their key components and their web location are detailed in **Annex 1**.

2.2 Navigate the map?

There are two ways to zoom and pan or navigate the maps displayed within the WebApps:

1. Within the map itself.
2. Using the List of MPAs displayed to the left of the WebApp.

Navigating within the map

To navigate within the map itself, hover the mouse over the map.

To alter the extent of the map by zooming in or out, users may scroll using the mouse wheel while hovering over the map or left-click on either the plus or minus zoom buttons in the bottom right-hand corner of the map:

¹ INSPIRE regulations: ico.org.uk/for-organisations/foi-eir-and-access-to-information/inspire-regulations/do-the-inspire-regulations-apply-to-me/ (Last accessed 22 July 2024)



The '+' button zooms in to the map, whereas the '-' buttons zooms out of the map.

To pan or move around the map, users can click and hold the left mouse button and drag/move the map around within the map window.

Navigating using the List of MPAs

In all WebApps, the 'List of MPAs' is displayed to the left of the main map; an example is shown in the image below.



The list is designed to enable users to locate and explore the data layers associated with specific MPAs. The MPAs are listed in alphabetical order.

Note - the user may need to scroll to see the full list.

Clicking on an MPA within the list will select the MPA. Only one MPA can be selected at a time from the list. Selecting an MPA from the list will result in a blue bar appearing next to the MPA name to show it has been selected and cause the main map to zoom to the selected MPA. The border of the selected MPA will flash blue for a few seconds on the main map to highlight its location. Clicking the same MPA a second time within the list will deselect it and cause the map to zoom out to the original full map extent. Clicking a different MPA within the list will deselect the previous MPA and cause the main map to zoom to the newly selected MPA.

Note – When an MPA is selected either by selection from the list or directly in the map, a pop-up box appears on the main map detailing the name of the MPA.

2.3 Display and hide data layers?

By default, all key data layers present in the map are displayed on the map when the WebApp is first opened. To avoid confusion and map cluttering other layers included in the WebApp are not displayed when the WebApp is first opened.

Identifying available data layers

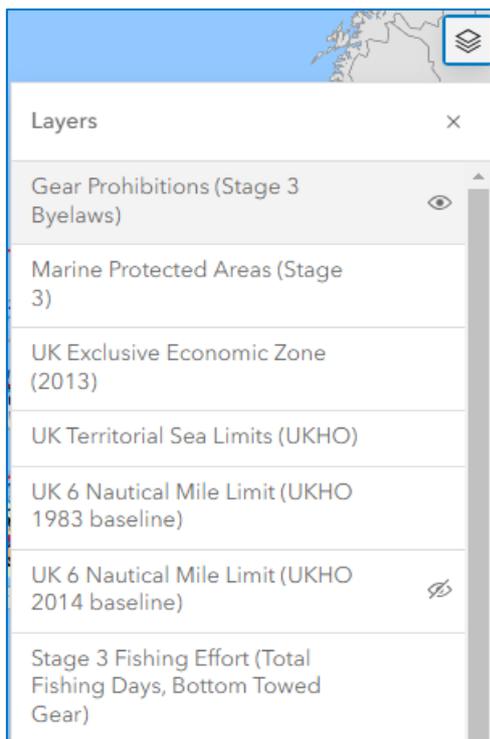
It is possible to display ('turn on') or hide ('turn off') data layers as necessary. Data layers within a map can be turned on and off where you see the following symbol in the top right-hand corner of the map:



This is the layer visibility icon (see top right of the image below).

Note - if this icon is not visible, turning data layers on and off will not be possible for that map.

Clicking on the layer visibility icon will open a window showing the data layers included in the map, as shown in the image below.



Clicking on the layer visibility icon a second time, or clicking 'x', will close the window. Data layers are listed by name, in the order in which they appear on the map.

Displaying and hiding data layers

The eye icon indicates whether the data layer is visible/displayed on the map. Users are able to manage which data layers are visible on the map by clicking on the eye icon. The eye icon without a diagonal line across it indicates that the layer is visible or 'on' whereas an eye icon with a diagonal line across it indicates the layer is hidden or 'off' on the map (see the image above). Clicking the eye icon turns the layer

visibility 'on' or 'off'. The eye icon remains visible when the layer is hidden or 'off', The eye icon is not displayed in the list when the layer is 'on'. To confirm whether a layer is turned on, or to change a layer from on to off hover over the layer in the list to display the eye icon.

Layer visibility can be turned on or off. Using the image above as an example, clicking the eye icon next to 'Gear Prohibitions (Stage 3 Byelaws)' would turn 'off' the 'Gear Prohibitions (Stage 3 Byelaws)' data layer, making them no longer visible within the map.

Note - layers which are turned 'off' are also removed from the Legend until they are turned back 'on'.

2.4 Use the legend?

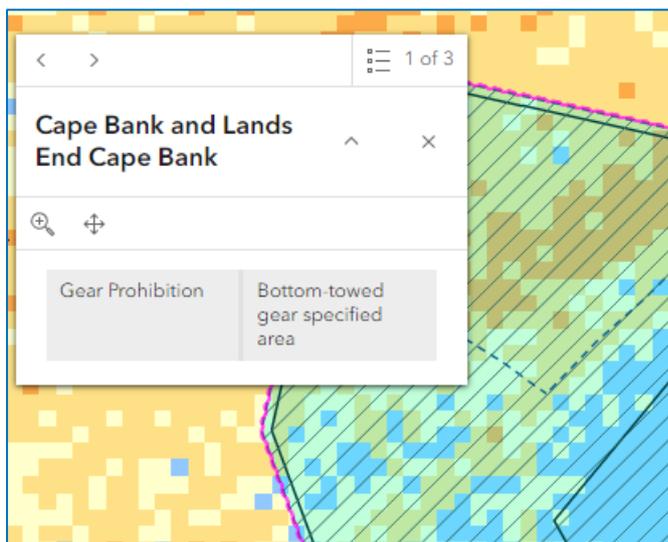
The legend lists the data layers visible in the main map. Users may need to scroll down through the legend to view the desired data layer.

Note - the legend does not display data layers from the Overview Map, or layers in the main map which have been 'turned off' using the layer visibility icon – see Section 2.3 above)

Layers in the legend are arranged in the order in which they appear on the map.

2.5 Interrogate map data?

Left clicking on the map window will select all the portions of data under the mouse/cursor. The selected data will be in purple, as detailed in the image below:

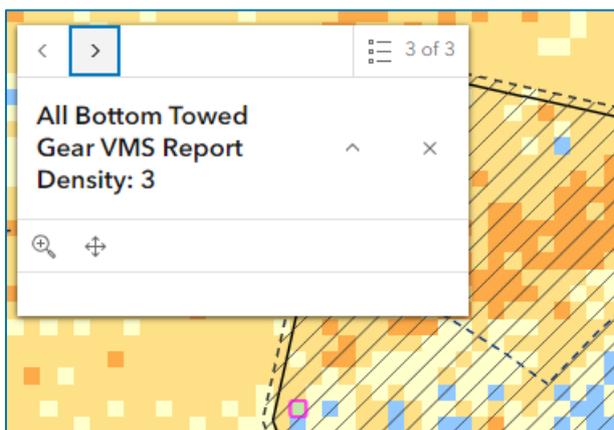


Upon selecting data, a pop-up box appears displaying additional information concerning the selected data. As per the image above, if multiple data layers are selected, for example where different data layers overlap, the pop-up box will contain

left and right arrows to navigate to the different information available for the selected data layer.

For example, in the image above a 'All Bottom Towed Gear VMS Report Density' grid cell has been selected. The selected cell overlaps with the 'Cape Bank Marine Protected Area' and the 'Cape Bank and Lands End and Cape Bank Gear Prohibition' data layers. As a result, the pop-up box shows '1 of 3' in the top right-hand corner. The pop-up box currently displays the Cape Bank and Lands End and Cape Bank Gear Prohibition. To view the additional pop-up information for the selected component of the 'All Bottom Towed Gear VMS Report Density' data layer, left-click on the right pointing triangular arrow button next to '1 of 3' to move to pop-up display '2 of 3' and then '3 of 3' as per the image below.

The pop-up box now displays the 'All bottom towed gear VMS report density' for the selected grid cell.



Not all data layers can be interrogated in this manner. For example, clicking on an HPMA within the left-hand list selects that element, but there is no associated pop-up.

3 Contact

If you would like further information on how to use the WebApps, please get in touch with us: conservation@marinemanagement.org.uk.

Annex 1 – MMO Stage 3 MPA consultation WebApps

Title	Key map contents	Link
Designated Features WebApp	<ul style="list-style-type: none"> • Stage 3 MPAs • Proposed Stage 3 byelaws • Stage 3 MPA Designated Features 	https://defra.maps.arcgis.com/apps/dashboards/6e5322b6cb664066a2a667ed964b694a
Stage 3 Fishing Effort UK under 12m, Bottom Towed Gear (2016 to 2021) WebApp	<ul style="list-style-type: none"> • Stage 3 MPAs • Proposed Stage 3 byelaws • Bottom towed gear fishing effort from under 12 m vessels 	https://defra.maps.arcgis.com/apps/dashboards/e2d896af6376474f9f4308b465227608
Stage 3 Fishing Effort UK under 12m, Midwater Gear (2016 to 2021) WebApp	<ul style="list-style-type: none"> • Stage 3 MPAs • Proposed Stage 3 byelaws • Midwater gear fishing effort from under 12 m vessels 	https://defra.maps.arcgis.com/apps/dashboards/f1feb7b5fd244c08373e33ae26d4f0f
Stage 3 Fishing Effort UK under 12m, Static Gear (2016 to 2021)	<ul style="list-style-type: none"> • Stage 3 MPAs • Proposed Stage 3 byelaws • Static gear fishing effort from under 12 m vessels 	https://defra.maps.arcgis.com/apps/dashboards/282e34ddb8e34bc9938b151afb0d39f2
Stage 3 VMS Report Density - Bottom Towed Gear (2016 to 2021)	<ul style="list-style-type: none"> • Stage 3 MPAs • Proposed Stage 3 byelaws • Bottom towed gear VMS report density 	https://defra.maps.arcgis.com/apps/dashboards/7c42fd0f339d4af9be3b484e559750af
Stage 3 VMS Report Density - Midwater Gear (2016 to 2021)	<ul style="list-style-type: none"> • Stage 3 MPAs • Proposed Stage 3 byelaws • Midwater gear VMS report density 	https://defra.maps.arcgis.com/apps/dashboards/ac5454202cb848478c4e04c235e4dad6

Title	Key map contents	Link
Stage 3 VMS Report Density - Static Gear (2016 to 2021)	<ul style="list-style-type: none"> • Stage 3 MPAs • Proposed Stage 3 byelaws • Static gear VMS report density 	https://defra.maps.arcgis.com/apps/dashboards/e6e92d9301f74da4b8300cf64bd67593
Stage 3 SAR All Bottom Towed Gears (2016 to 2020) Dashboard	<ul style="list-style-type: none"> • Stage 3 MPAs • Proposed Stage 3 byelaws • Bottom towed gear surface and subsurface SAR 	https://defra.maps.arcgis.com/apps/dashboards/a2fe4e2102414f79898f175cb04a6a30
Stage 3 SAR Demersal Seine (2016 to 2020) Dashboard	<ul style="list-style-type: none"> • Stage 3 MPAs • Proposed Stage 3 byelaws • Demersal seine surface and subsurface SAR 	https://defra.maps.arcgis.com/apps/dashboards/7485f2aca7c54f8482f181ddbcb5c2b5
Stage 3 SAR Demersal Trawl (2016 to 2020)	<ul style="list-style-type: none"> • Stage 3 MPAs • Proposed Stage 3 byelaws • Demersal trawl surface and subsurface SAR 	https://defra.maps.arcgis.com/apps/dashboards/13a12f1b2251419e94e40ca9a677968a
Stage 3 SAR Dredge (2016 to 2020)	<ul style="list-style-type: none"> • Stage 3 MPAs • Proposed Stage 3 byelaws • Dredge surface and subsurface SAR 	https://defra.maps.arcgis.com/apps/dashboards/d4ea330b7bea46b288905a94b6c69d08
Offshore wind and byelaws (Stage 3) WebApp	<ul style="list-style-type: none"> • Stage 3 MPAs • Proposed Stage 3 byelaws • Existing Stage 1 byelaws • Highly Protected Marine Area (HPMA) byelaw • Areas set aside for offshore wind projects 	https://defra.maps.arcgis.com/apps/dashboards/1035f1b98145407b8d3f17b60903e7ec

Title	Key map contents	Link
Stage 3 Overview WebApp	<ul style="list-style-type: none"><li data-bbox="608 264 951 376">• Includes all key map contents from the above WebApps	https://defra.maps.arcgis.com/apps/dashboards/0d41c2c1bc3a4d7a9110d2ad61d0735c

Annex 2 – Glossary of terms

Data layer - a data layer displays geographic data in a map. For example, the 'Marine Protected Areas (Stage 3)' data layer displays the geographic boundaries of the Stage 3 Marine Protected Areas (MPAs) relevant to the consultation.

Legend - a list of the data layers displayed in the map and the symbols or colours which depict them in the 'main map' to permit a better understanding or interpretation of it.

Main map - the largest map in the centre of the screen where the key data will be displayed such as the highly protected marine areas.

WebApp - an application for viewing, interrogating and experiencing digital maps and data.