

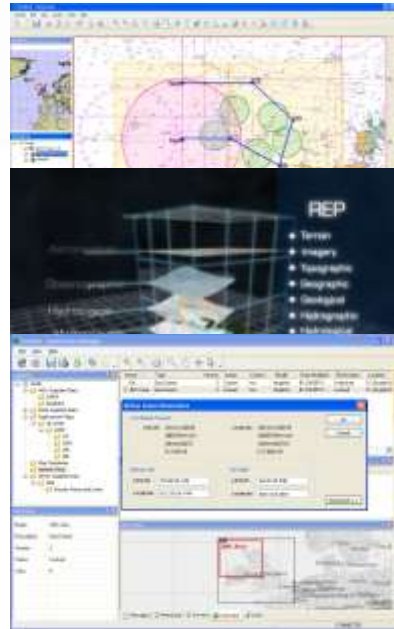
See the world as it really is

ENVITIA

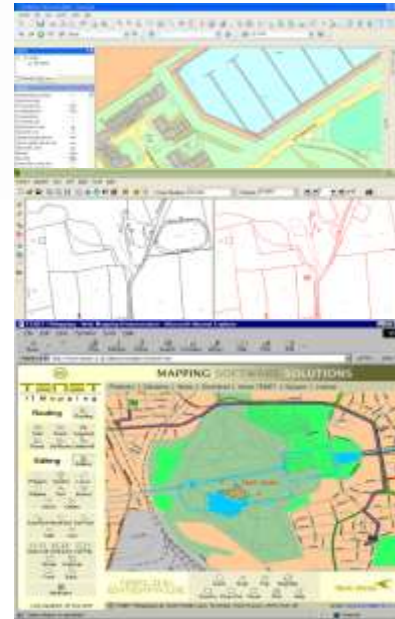
Defence and Security

Using WPSs in Portals

Defence and Security



Government and Utilities



Integrated Transport Systems



Our goal is to build SDIs not talk about them!

- - Easy to use, business focus.
 - No installed Client S/W (Only browser)
 - Works on Low Bandwidth
 - Easy to maintain content.
 - Must deliver to computers too!
-

-

-

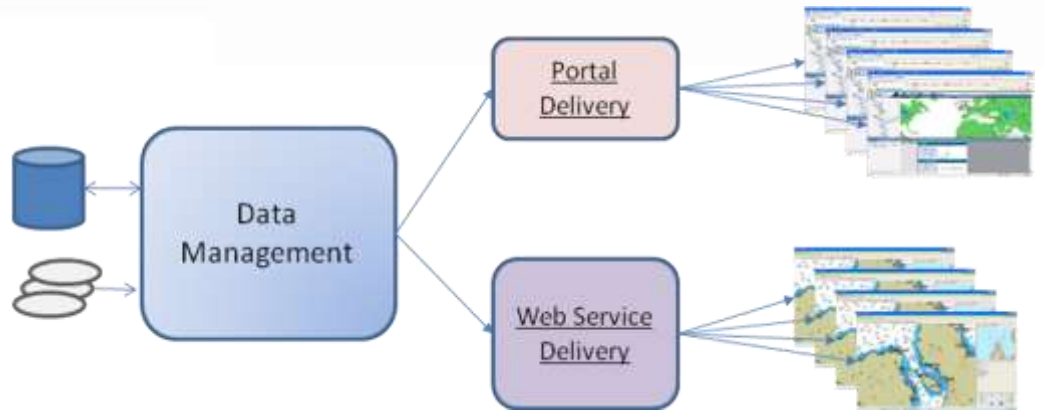
-

-

-



-
-
-
-
-
-
-



UKHO - Defence Maritime Geospatial Services - Mozilla Firefox

http://mandalore/Envitia.DMarGS.Portal/default.aspx

UKHO - Defence Maritime Geospatial...

THE UNITED KINGDOM HYDROGRAPHIC OFFICE

DMarGS Portal 2

Powered by Envitia

Overview Catalogue Viewer Export

Geographic Search

Gazetteer

Resources

- Portal User Guide
- Frequently Asked Questions
- AML Product Content
- ENC Product Content
- ARCS Product Content
- TPCM Product Content
- Other Product Content
- Available Services Summary
- Feedback

Pre-configured Views (WMC)

- South West
- Cardiff

Related Projects


- Plymouth Pilot
- VAROS
- Plymouth Marine Laboratories
- OGC WebServices - 7
- GI2S CCD

Latest News

Powered By Envitia
World Class Spatial Information Technologies
www.envitia.com DMarGS version 2.0.0.2


The Defence Maritime Geospatial Information Services (DMarGS) portal provides a range of maritime focused geospatial products to Defence users through an easy to use Portal. DMarGS allows the user to discover, evaluate, exploit and download for collaboration a range of geospatial products through this portal.

DMarGS also provides a set of services to allow geospatial applications to access the registry and data directly through web services.



The DMarGS Portal

The Defence Maritime Geospatial Information Services (DMarGS) portal provides the UK Defence and Coalition user with access to a catalogue, evaluation and download capability for a range of geospatial data.




Access to the Portal

If you wish to access this portal, please contact the UKHO office.

E: bob.croft@ukho.gov.uk

T: 01823 337900 x4851



OGC OWS-7

The Open Geospatial Consortium (OGC) Open Web Services phase 7 (OWS-7) is an Interoperability Initiative. The OGC is engaged in an Interoperability Program which is a global, hands-on and collaborative prototyping program designed for rapid development and delivery of proven candidate specifications into OGC's Specification Program, which can then be formalized for public release.

Portal Status


This portal is part of the UKHO DMarGS Capability Concept Demonstrator (CCD). This portal only supports Microsoft IE6 and IE7 browsers.

The portal and its supply of data is not a production UKHO service and should not be relied on for operational use.

Open Standards

DMarGS is fully compliant with Open Standards. For more details of these standards:

- www.opengeospatial.org
- www.iso.org
- www.oasis.org



GI2S CCD

GI2GO is a Concept Capability Demonstrator intended to be accessible through DII(F) at the SECRET level, providing an overarching browser based user interface to DGC provided GEOINF and GEOINT through a set of functional services. The aim is to allow catalogues to be browsed, products to be searched and maps to be viewed through a browser.

The Plymouth Pilot

The Plymouth Pilot is investigating bringing together a wide range of different geospatial data types and sources (civil and military, government and commercial), and investigating the benefits of automated geospatial fusion technologies applied to these sources. If you wish to find out more about the Plymouth Pilot Project please email contactus@plymouth-pilot.com.

VAROS

Value Adding Raster Services based on Open Standards (VAROS).

VAROS aims at integrating the Open Spatial Consortium (OGC) Web Coverage Processing Service (WCPS) interface standard with the OGC Web Processing Standard (WPS) interface standard. In VAROS a WPS Application Profile based on WCPS will be proposed for adoption by the OGC. This specification will allow for interoperable WPS raster services.

PML

Plymouth Marine Laboratory's (PML) research programmes are focused on solving the complexities within marine ecosystems and developing relevant and integrated approaches for delivering a sustainable basis to marine ecosystem management and understanding the role of the oceans in the Earth System. They contribute to timely and highly relevant research for both UK and international societal needs.

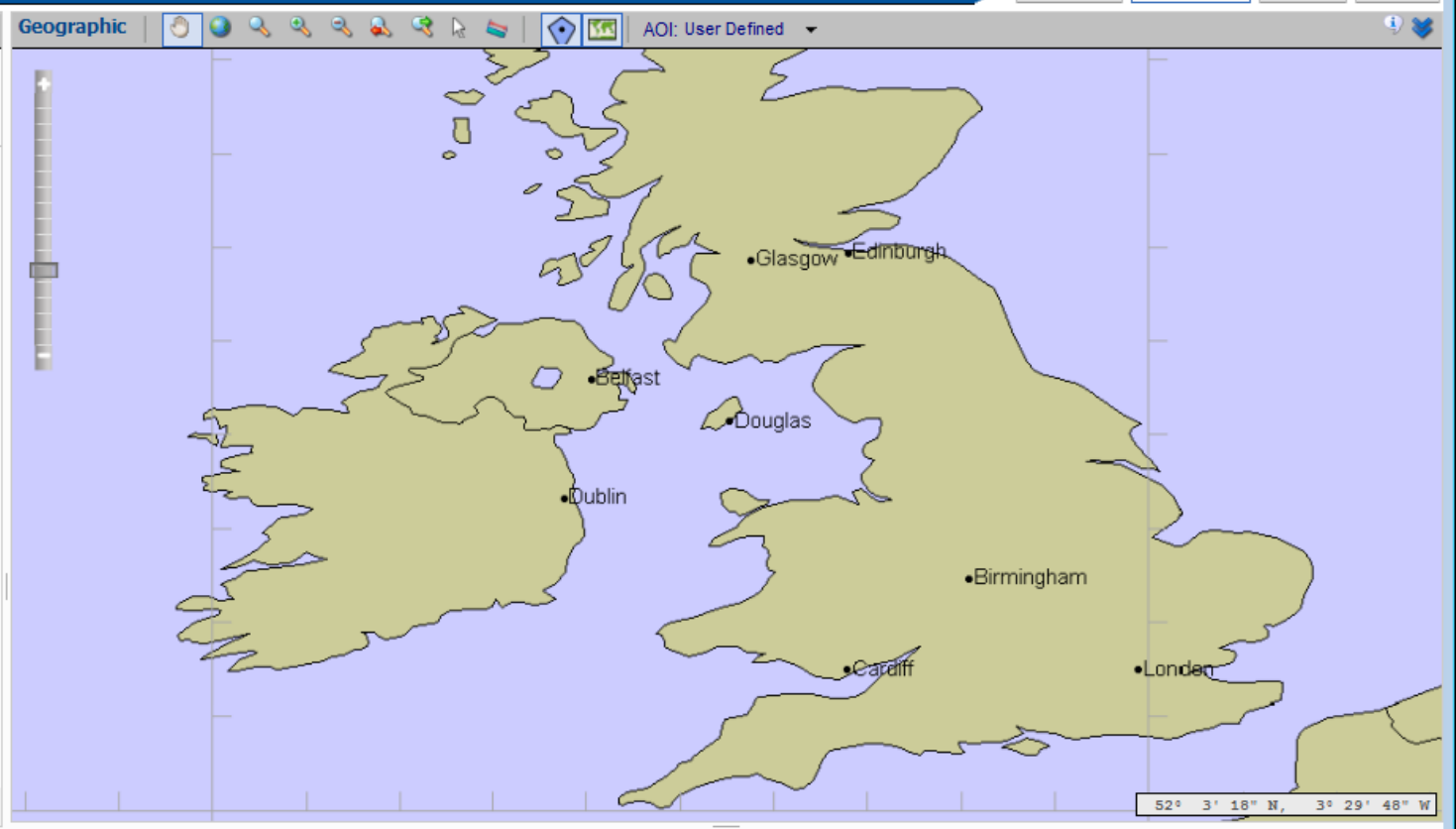
Done

Search

Bathymetry

Products

Search



Selected

| Name | Remove |
|------|--------|
| | |

Selected Information Area Of Interest

Product Search Results Returned 1 results.

| Name | Date | Extent | Product | Classification | Action |
|------------|------------|-----------------------------|---------|----------------|--|
| bathymetry | 2010-11-08 | -20.25 47 6.58333 65.1667 - | | UC | <input type="button" value="+"/> <input type="button" value="Print"/> <input type="button" value="Download"/> <input type="button" value="Share"/> |

Product Search Results Gazetteer Search Results Metadata

Search

Search

Products Advanced

Select Area

Current View

Left: -39.926 Right: 25.480
Top: 74.223 Bottom: 38.929

Select Title

Select Product Type(s)

Products: ARCS

Select Catalogued Date

Select Citation Date

Select Classification

Select Scales

Clear

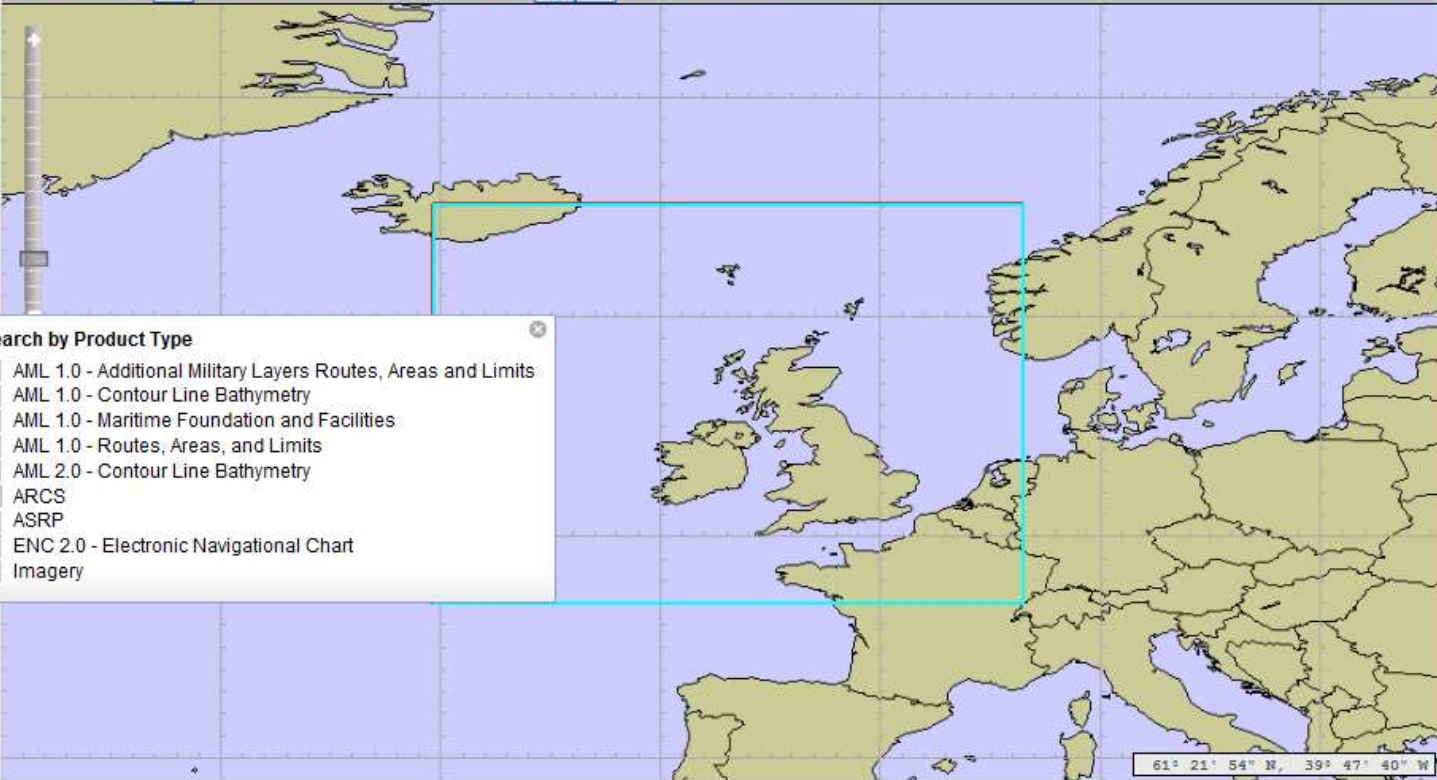
Search

Selected

Name Remove

bathymetry

Geographic



Search by Product Type

- AML 1.0 - Additional Military Layers Routes, Areas and Limits
- AML 1.0 - Contour Line Bathymetry
- AML 1.0 - Maritime Foundation and Facilities
- AML 1.0 - Routes, Areas, and Limits
- AML 2.0 - Contour Line Bathymetry
- ARCS
- ASRP
- ENC 2.0 - Electronic Navigational Chart
- Imagery

Product Search Results

Returned 1 results.

| Name | Date | Extent | Product | Classification | Action |
|------------|------------|-----------------------------|---------|----------------|-------------------------------------|
| bathymetry | 2010-11-08 | -20.25 47 6.58333 65.1667 - | | UC | <input checked="" type="checkbox"/> |

Search

Approaches Search

Products [Advanced](#)

Select Area

Current View
 Left: -12.175 Right: 3.094
 Top: 56.165 Bottom: 47.926

Select Title

Select Product Type(s)

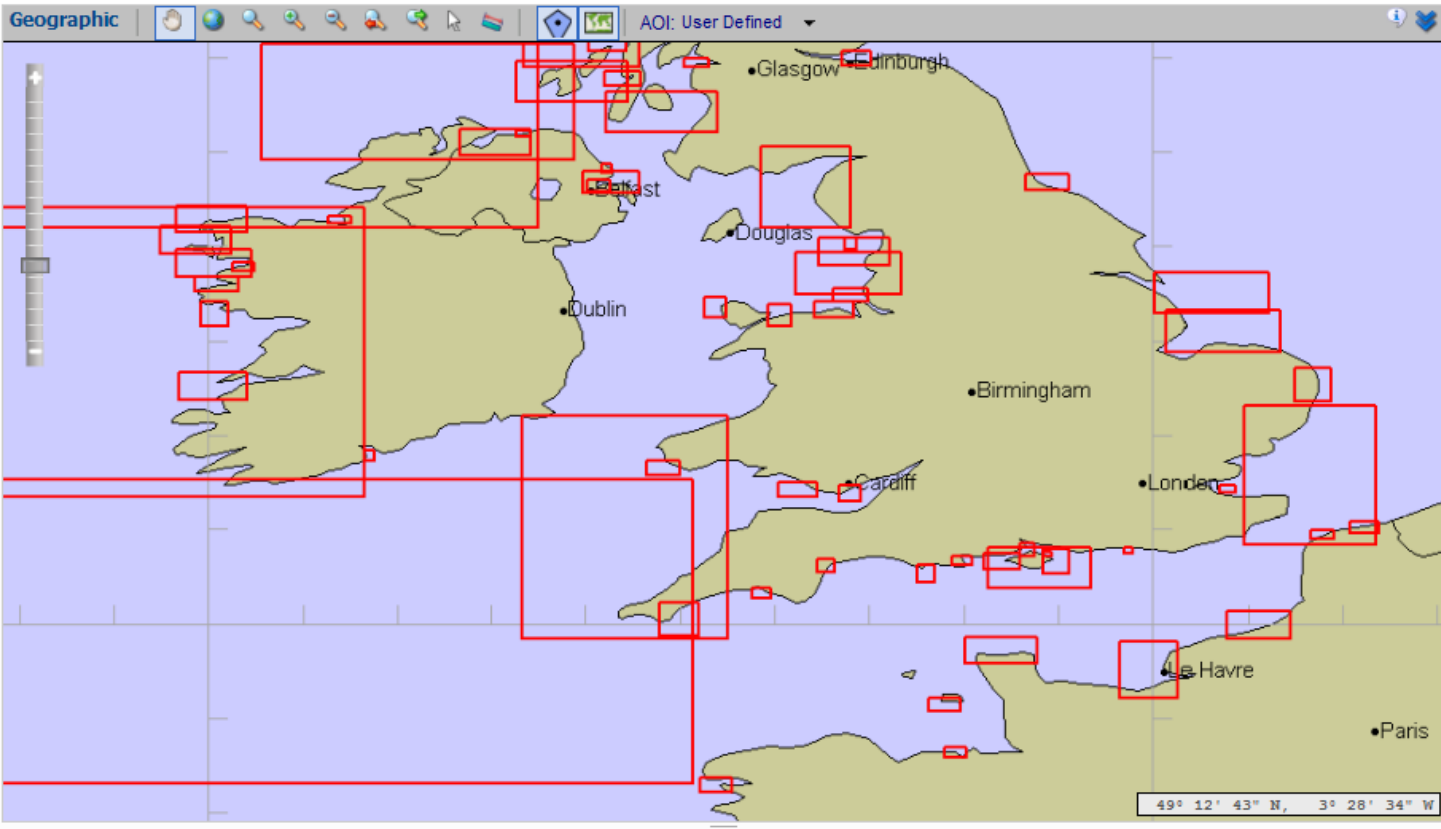
Products: ARCS

Select Catalogued Date

Select Citation Date

Select Classification

Select Scales



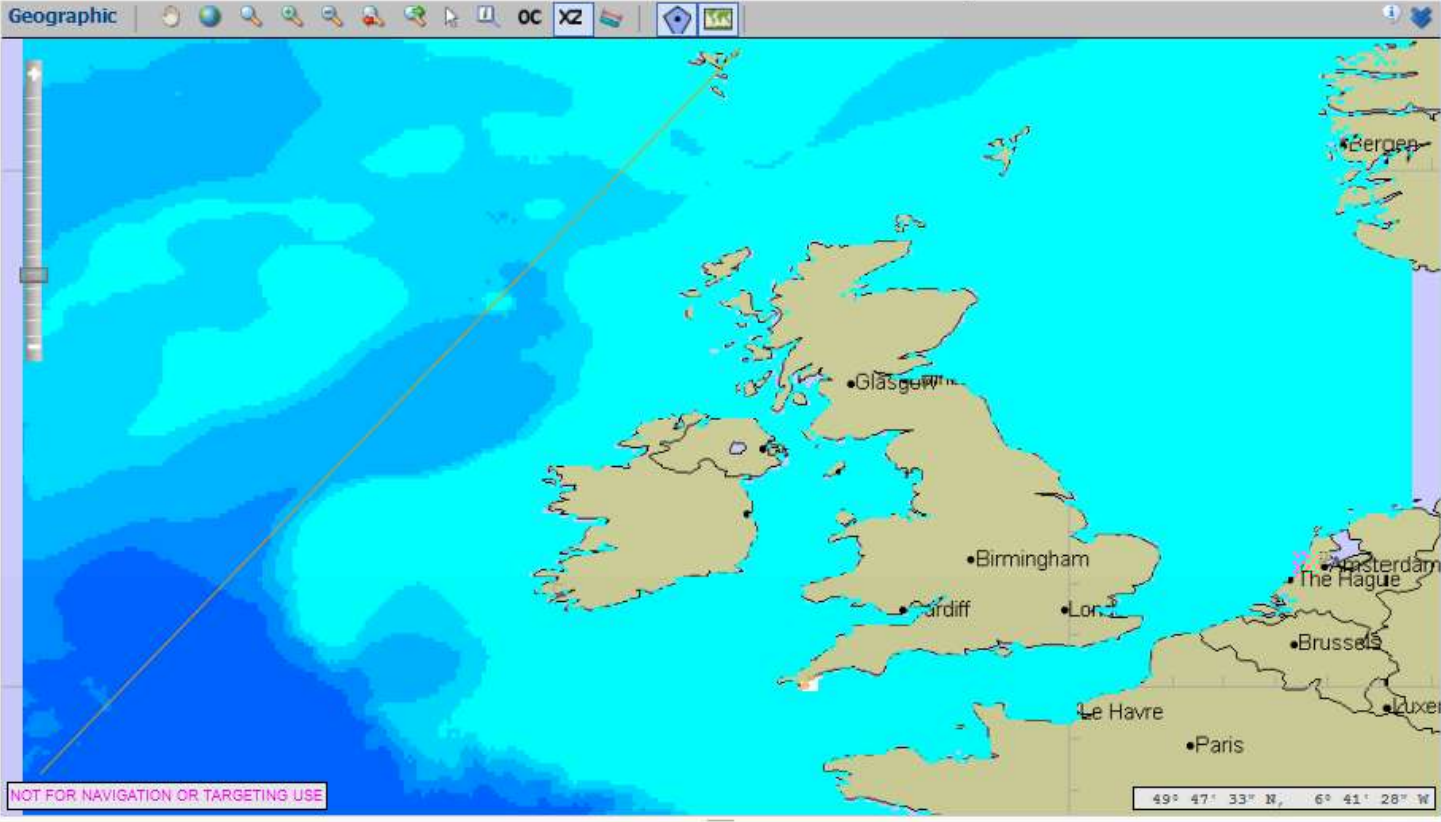
Selected

| Name | Remove |
|------------|-------------------------------------|
| bathymetry | <input checked="" type="checkbox"/> |

Product Search Results Returned 62 results.

| Name | Date | Extent | Product | Classification | Action |
|--------------------------------------|------------|--------------------------------------|---------|----------------|--|
| Approaches to Belfast | 2010-11-08 | -5.97315 54.5983 -5.73618 54.7274 | ARCS | UC | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Approaches to Brest | 2010-11-08 | -4.78057 48.245 -4.44682 48.3967 | ARCS | UC | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Approaches to Calais | 2010-11-08 | 1.682 50.9208 1.9178 51.022 | ARCS | UC | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Approaches to Dieppe and Le Trent | 2010-11-08 | 0.784317 49.8667 1.46582 50.1544 | ARCS | UC | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |

- Layers**
- TotalTide
 - Gazetteer
 - Approaches to Falmouth
 - Approaches to the Bristol Channel
 - bathymetry
 - Vector Map

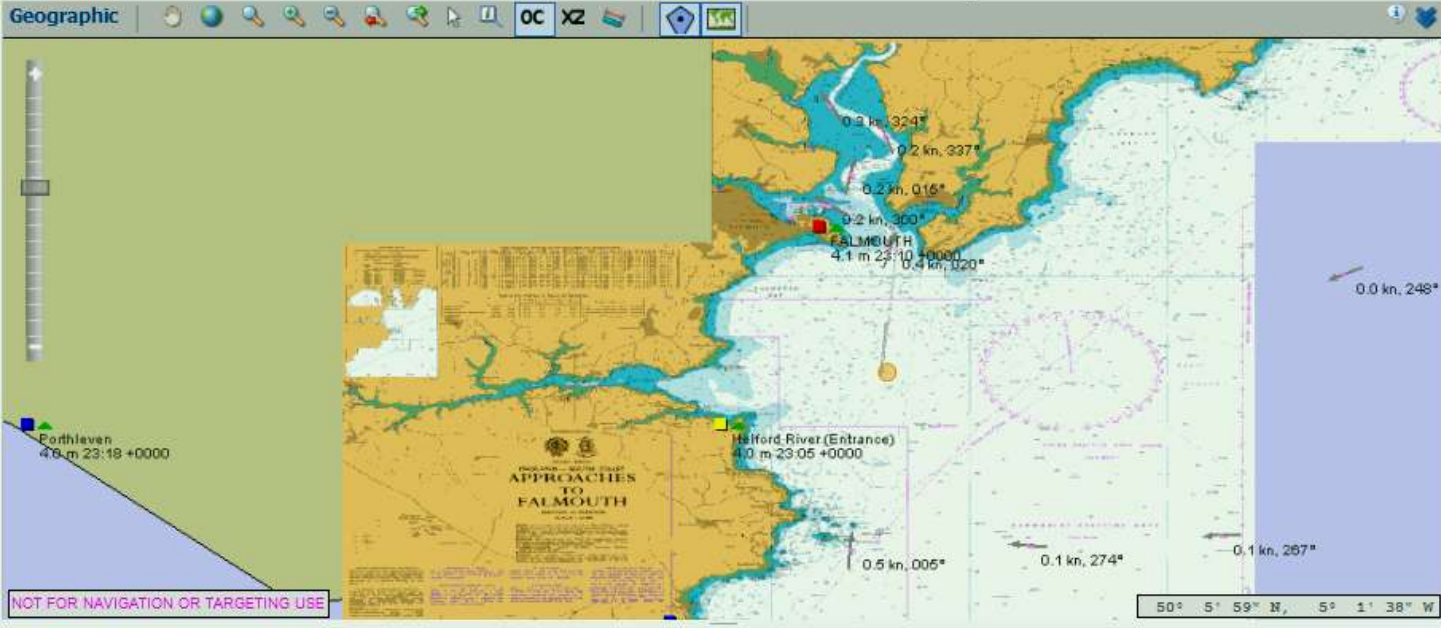


Information

DLat: 61.6775
 DLon: -6.9430
 Lat: 61° 40' 39" N
 Lon: 6° 56' 34" W

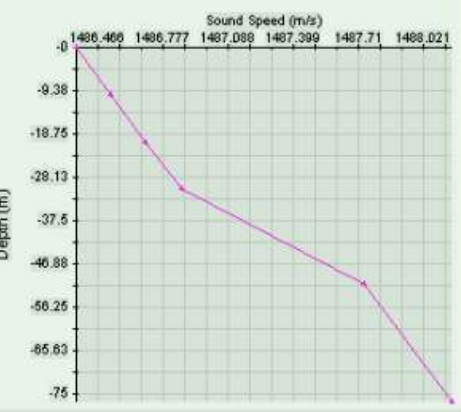
Start Point (x , y) : -19.1076, 4...

- Layers**
- TotalTide
 - Gazetteer
 - Approaches to Falmouth
 - Approaches to the Bristol Channel
 - bathymetry
 - Vector Map



OC

Oceanic Profile View (Point Lat/Long 50.10028/-5.02732)



Information

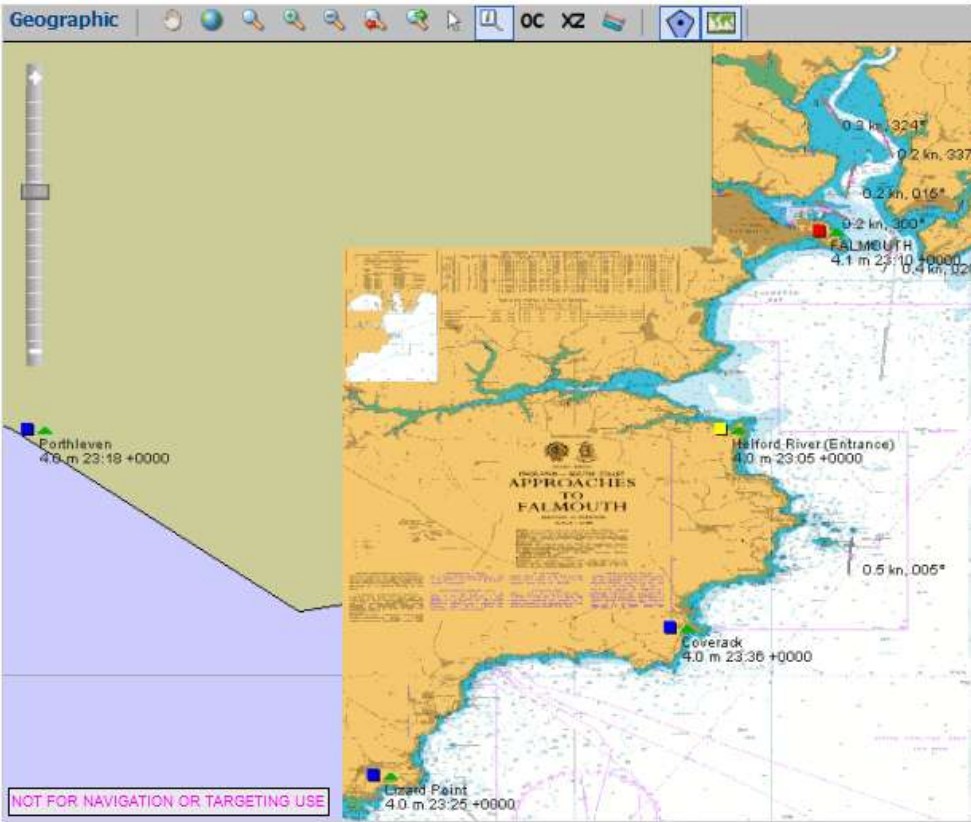
DLat: 61.6775
 DLon: -6.9430
 Lat: 61° 40' 39" N
 Lon: 6° 56' 34" W

Start Point (x, y): -19.1076, 49.1774
 End Point (x, y): -6.6913, 62.1529
 Bearing: 42.6463 (degrees)
 Range: 1060 9374 (NMEs)

Layers

- TotalTide
- Gazetteer
- Approaches to Falmouth
- Approaches to the Bristol Channel
- bathymetry
- Vector Map

Layers



Total Tide

Tidal Information (FALMOUTH)

Latitude: 50°9'N
 Longitude: 5°3'E
 Country: England
 Highest High Water: 5.4001 meters
 Lowest High Water: 4.3 meters
 Lowest Low Water: 0.8 meters
 Mean Sea Level: 3.21 meters
 Current Height: 2.92337 meters

| Time | Height | Type |
|-------|---------|------|
| 23:10 | 4.09149 | High |
| 05:42 | 2.40059 | Low |
| 11:43 | 4.31721 | High |
| 18:25 | 2.254 | Low |
| 00:39 | 4.17738 | High |
| 06:58 | 2.32058 | Low |
| 13:02 | 4.40999 | High |

Stream Information (50°09.44'N 5°02.76'W)

Latitude: 50°9'N
 Longitude: 5°2'E
 Country: England

| Time | Bearing | Speed |
|-------|---------|---------|
| 19:28 | 300 | 0.09321 |
| 01:28 | 175 | 0.1536 |

Information

DLat: 61.6775

Metadata

Title: Approaches to Falmouth

Layers

- Annotation
- TotalTide
- Gazetteer
- Approaches to Falmouth
- Approaches to the Bristol Channel
- bathymetry
- Vector Map

Layers

Drawing

Drawing Tools

- Point
- Polygon
- Circle
- Polyline
- Speech
- Select
- Text
- Delete

Drawing Style

Area

Colour:

Opacity (%): 40

Line

Colour:

Style: Solid

Thickness (px): 2

Opacity (%): 100

Point

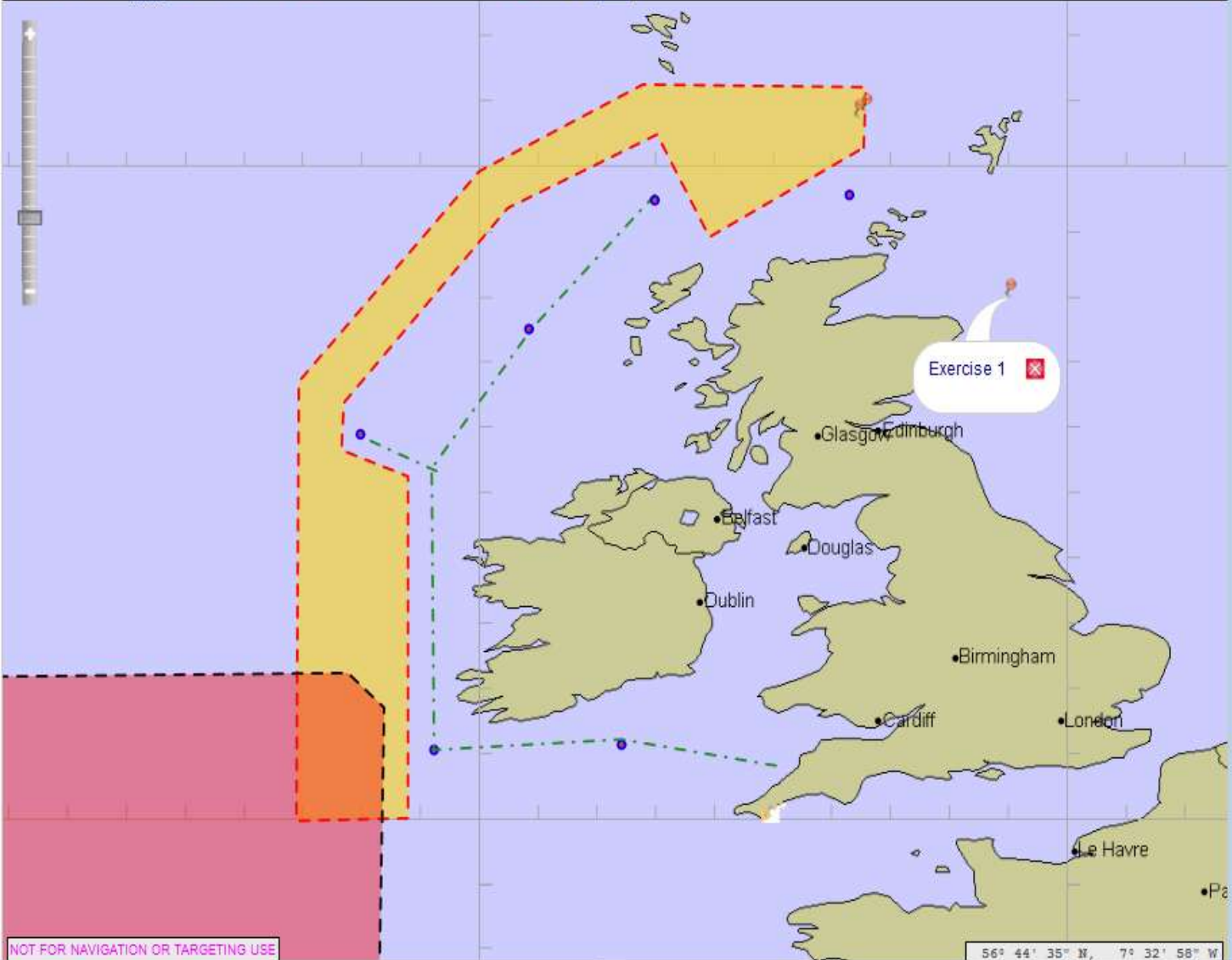
Style: Circle

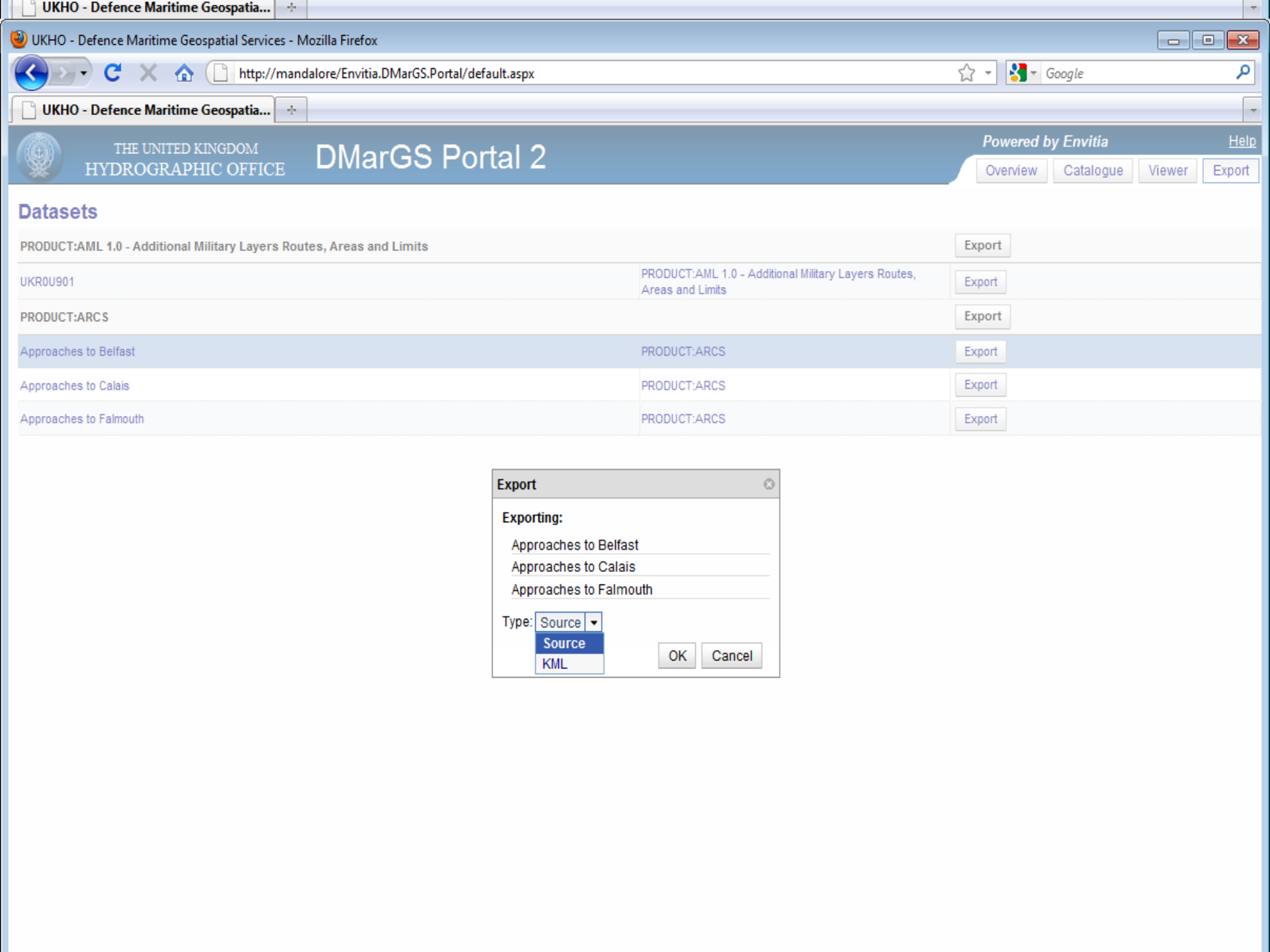
Radius (px): 6

Text

Colour:

Geographic





Datasets

| | | |
|---|---|------------------------|
| PRODUCT:AML 1.0 - Additional Military Layers Routes, Areas and Limits | | Export |
| UKR0U901 | PRODUCT:AML 1.0 - Additional Military Layers Routes, Areas and Limits | Export |
| PRODUCT:ARCS | | Export |
| Approaches to Belfast | PRODUCT:ARCS | Export |
| Approaches to Calais | PRODUCT:ARCS | Export |
| Approaches to Falmouth | PRODUCT:ARCS | Export |

Export

Exporting:

Approaches to Belfast

Approaches to Calais

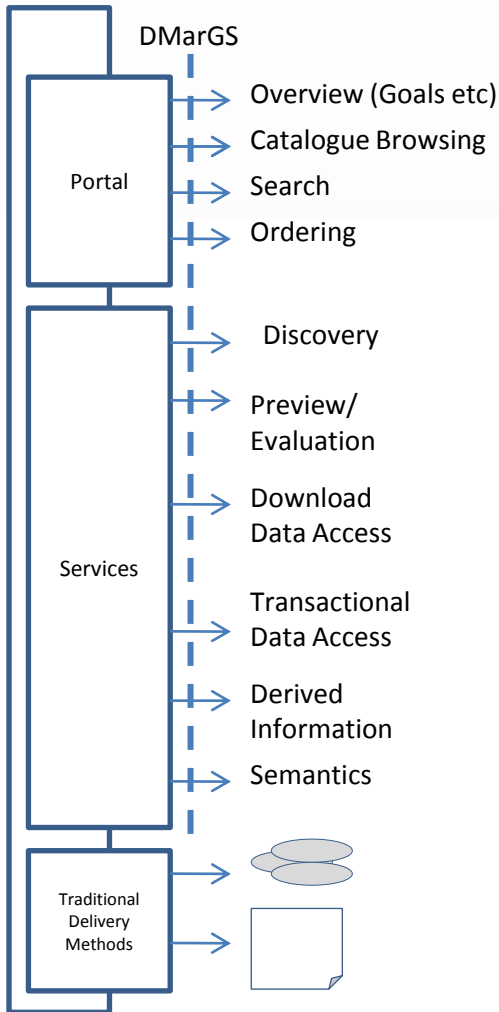
Approaches to Falmouth

Type:

Source

KML

[OK](#) [Cancel](#)



The screenshot shows the DMarGS Portal interface, powered by Envitia. The main map displays the Solent and Southampton Water area, with various data layers overlaid. The interface includes a search bar, a layers panel, and a metadata panel.

Layers:

- Vector Map
- Western Approaches to The Solent
- The Solent and Southampton Water
- Eastern Approaches to the Solent
- Annotation
- Gazetteer
- TotalTide

Metadata:

the_solent_and_southampton_water_chart_2036.5

Title: The Solent and Southampton Water Chart#2036

Metadata Standard: ISO 19115 Geographic Information Metadata

Reference System: MapLink:TextSpecification Projection HCRF : Transverse Mercator

Data Identification:

Title: Western Approaches to The Solent

Abstract: ARCS Chart containing raster maritime data. Chart GB-2036 - Western Approaches to The Solent

Language: eng (English)

Scale: 25000

Total Tide:

Tidal Information (COIWS)

Latitude: 50°45'N

Longitude: 1°18'E

Country: England

Highest High Water: 4.2 meters

Lowest High Water: 3.5 meters

Mean Sea Level: 2.67 meters

Current Height: 2.48777 meters

| Time | Height | Type |
|-------|---------|------|
| 13:06 | 4.08208 | High |
| 18:30 | 1.09689 | Low |
| 01:22 | 4.03302 | High |
| 06:44 | 1.19896 | Low |
| 13:38 | 4.00639 | High |
| 19:01 | 1.21826 | Low |
| 02:00 | 3.93767 | High |
| 07:18 | 1.37967 | Low |

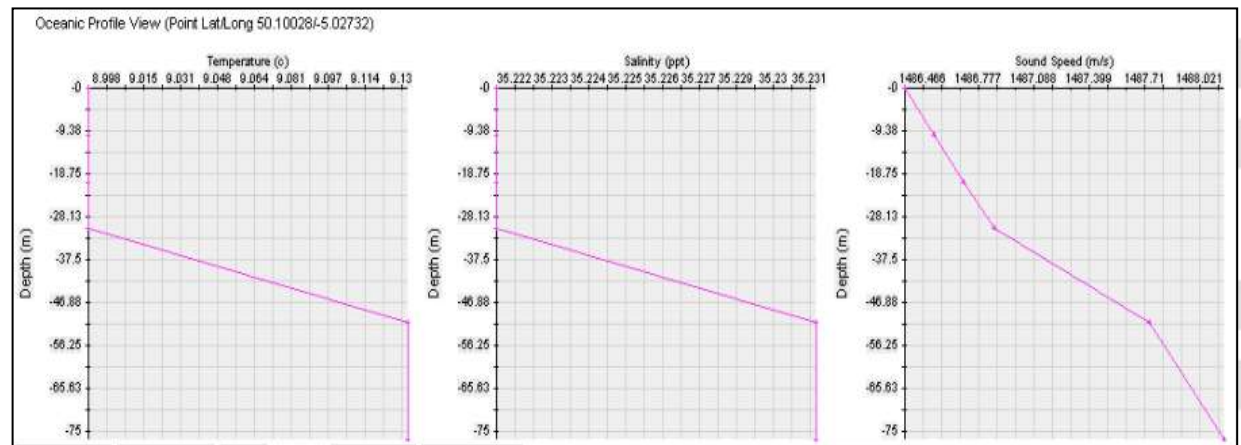
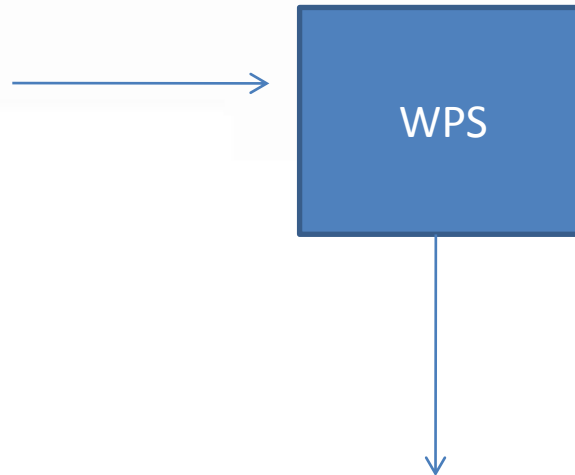
Stream Information (50°46.53'N 1°17.59'W)

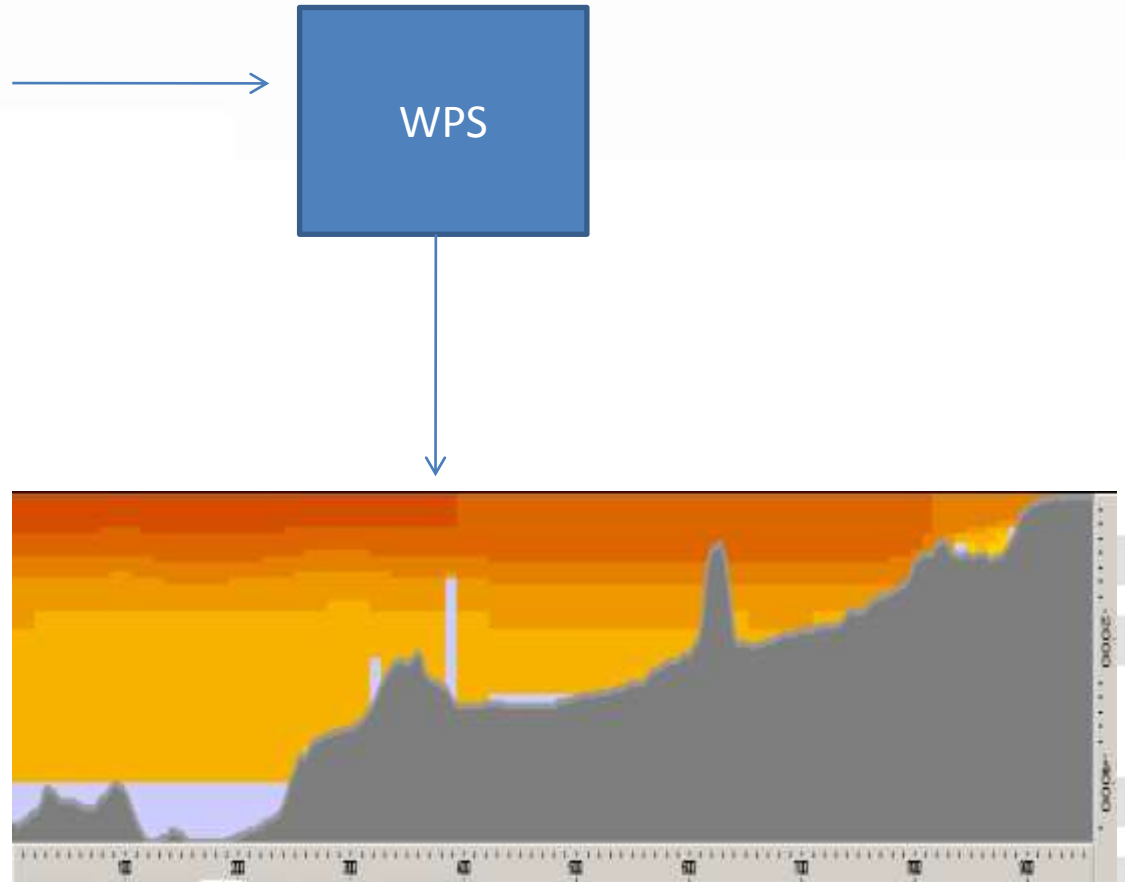
Latitude: 50°46'N

Longitude: 1°17'E

Country: England

| Time | Bearing | Speed |
|-------|---------|----------|
| 10:14 | 80.0205 | 0.941383 |
| 16:14 | 269 | 0.761073 |
| 22:14 | 80.3102 | 0.958808 |

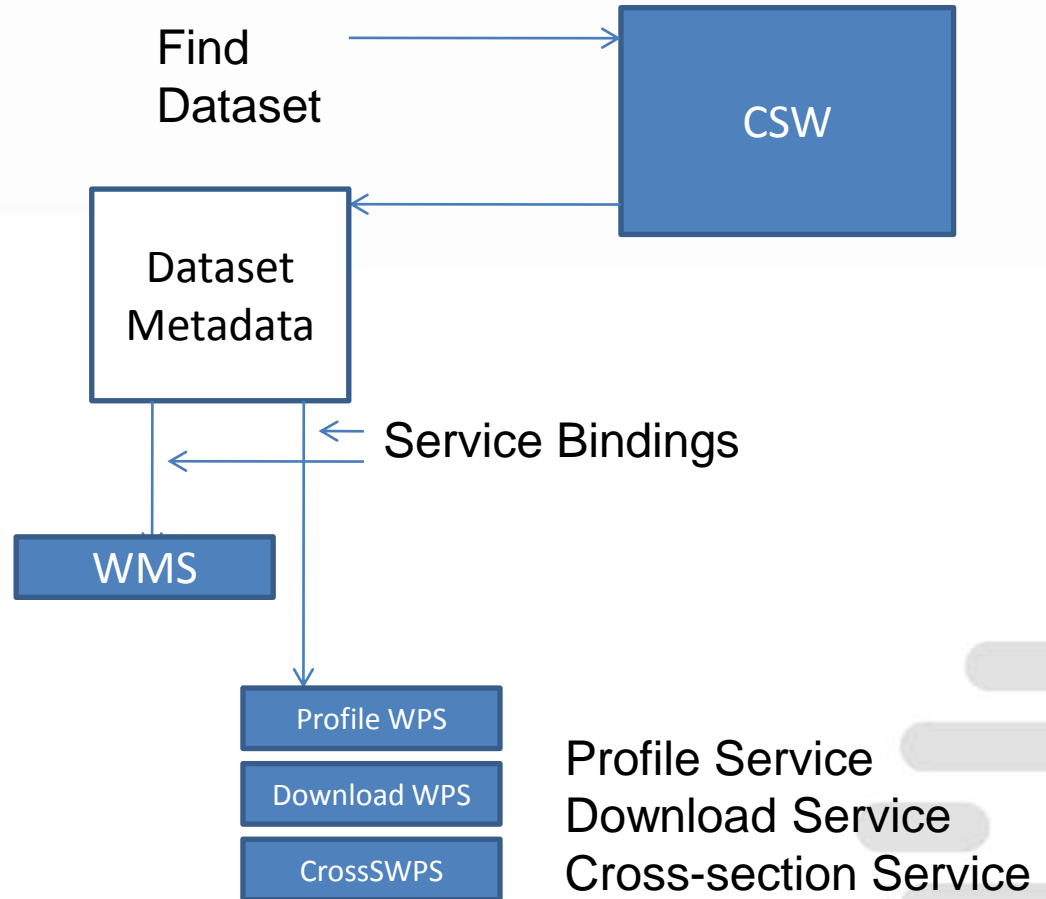




-

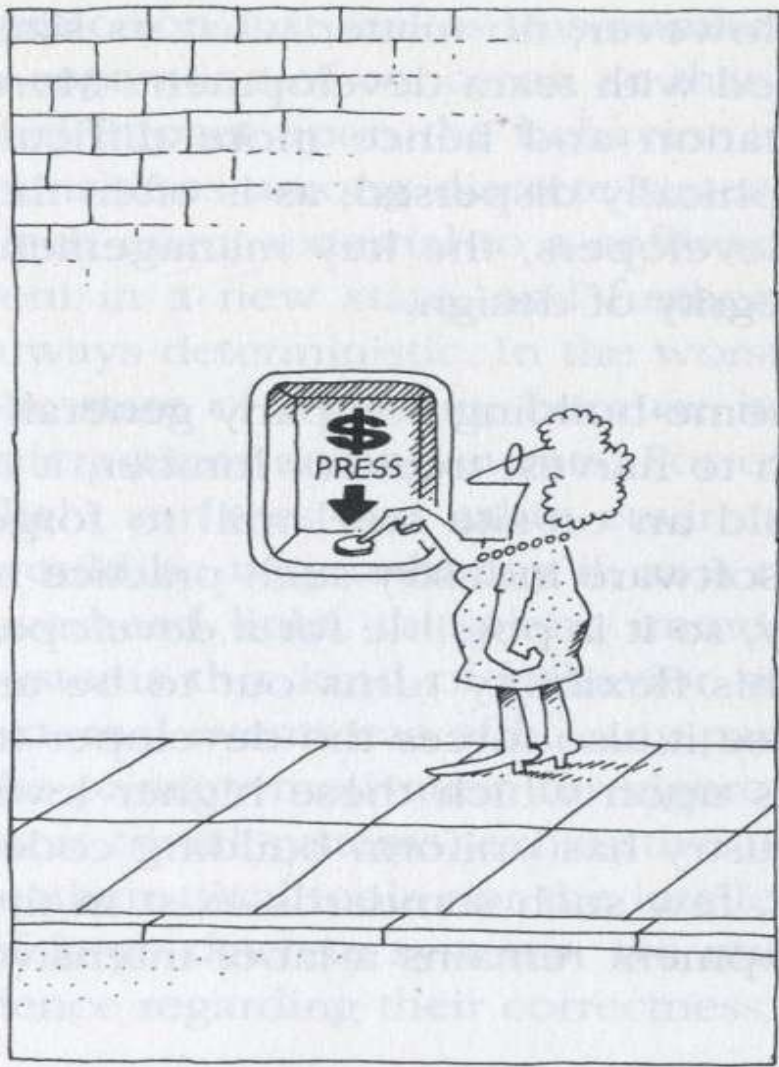
'type' is lodged

-



Profile Service
Download Service
Cross-section Service

-
-
- WPS is abstract. But it sends a message that the item is geospatial.
- More support for geo-capability is likely.
- Is consistent with (non-soap) OGC Services, so easier to migrate to a ‘community schema’.



Demo or Questions

roger.brackin@envitia.com