

# BASEMAPS GUIDE

DETAILED INSTRUCTIONS ON HOW TO USE BASEMAPSS



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Since BASEMAPS is still under development, some content of this guide might be slightly different on [basemaps.helcom.fi](https://basemaps.helcom.fi) (February 2020)

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# What is BASEMAPS?

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<https://basemaps.helcom.fi/>

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*BASEMAPS is a map service to access Baltic Sea maritime spatial planning (MSP) data and plans.*

The story of BASEMAPS (BALTic SEa MAP Service) dates back to 2012 when a project called BaltSeaPlan recommended building a tool to access Baltic Sea decentralized MSP data based on Marine Spatial Data Infrastructure (MSDI).

Back then, planners realized there was a need to work with transboundary and up-to-date data that was reliable to make their own national MSP plans.

Working with regional centralized databases was (and still probably is) the best option to get harmonized data from data providers.

However, these centralized databases do not guarantee that the data is up to date. Planners needed a solution to get

data published and maintained by the original official source.

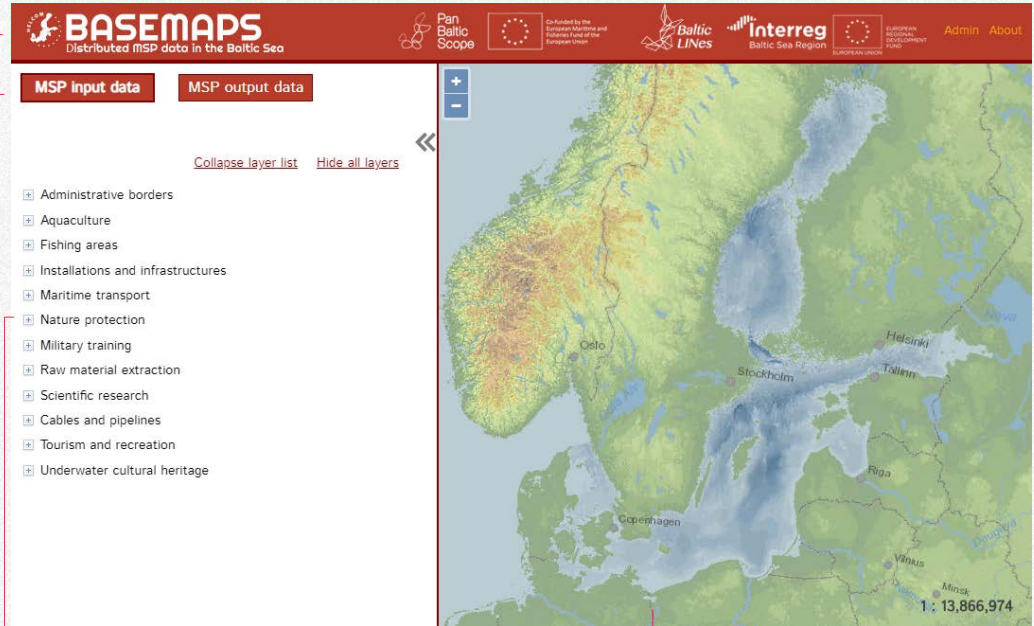
That solution is called BASEMAPS. It was developed by HELCOM under the Interreg funded Baltic LINes project (2016-2019).

BASEMAPS allows users to view and download data/metadata published by national data providers through [OGC](#) open geospatial standards—[WMS](#) and [WFS](#). It is also possible to access downloadable services and ArcGIS REST Map layers.

During the project PanBalticScope (2017-2019) it was developed further to view harmonized MSP plans—MSP output data.

It is aimed for planners, data providers and authorities dealing with maritime spatial planning in the Baltic Sea.

# BASEMAPS structure



BASEMAPS is organized in four parts:

1. The banner
2. The input / output data buttons
3. The layer list
4. The map viewer

# The banner



- BASEMAPS: link to the map service (basemaps.helcom.fi). It is used to refresh the window if needed. The HELCOM logo links to the HELCOM webpage.
- Logos: the funding programmes. BASEMAPS was developed during the Interreg funded project BaklticLINES. The output data part was made under PanBaltcScope.
- Admin: Password protected administration panel where data providers can add and edit services. The administration rights are given by HELCOM.
- About: links to the manual

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# Input and output data

## MSP input data

Input and output data are the terms used to differentiate between data to create plans and the plans.

MSP input data opens by default and includes various thematic data layers which have been considered relevant for MSP purposes.

It contains both national data harvested from national data providers (when available) as well as centralized dataset provided by HELCOM or other international organizations.

MSP planners can use input data if they want to access transboundary data.

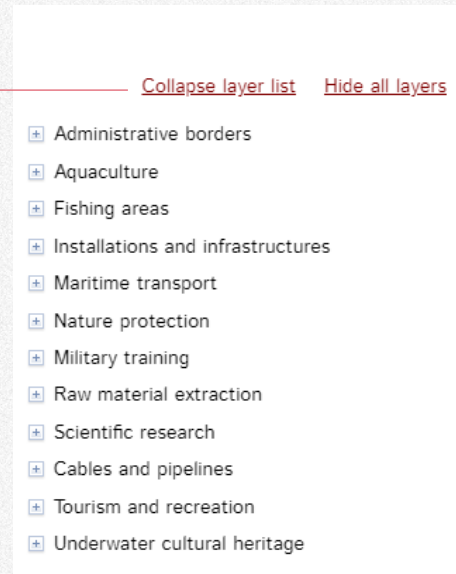
## MSP output data

MSP output data, on the other hand, contains national MSP plans harmonized according to HELCOM-VASAB guidelines on transboundary MSP output data structure.

These plans were created based on various input data. MSP planners can use output data to check what other countries in the Baltic Sea have already planned.

**MSP input**

# Layer list



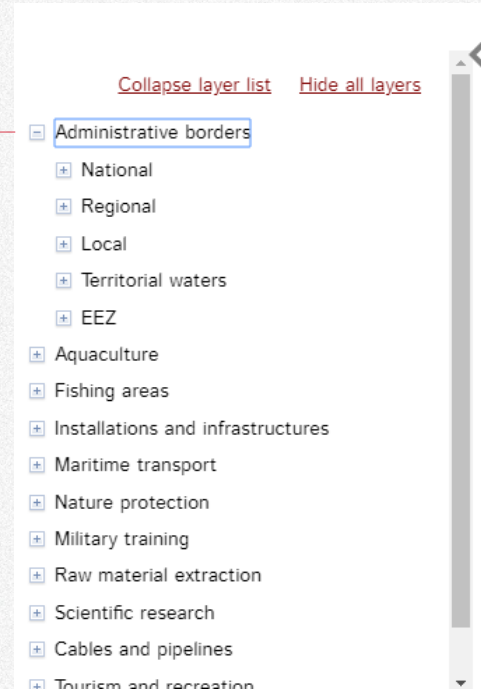
All services are stored in the layer list. The layer list is divided in thematic categories that are relevant for MSP. There are a couple of buttons to help users navigate through all categories:


**Collapse layer list:** it closes all the opened categories. This is useful if users have opened a lot of them and want to return to the original state.

**Hide all layers:** it hides all the layers that users have activated. It is useful if they have activated many layers and want to see an empty map.

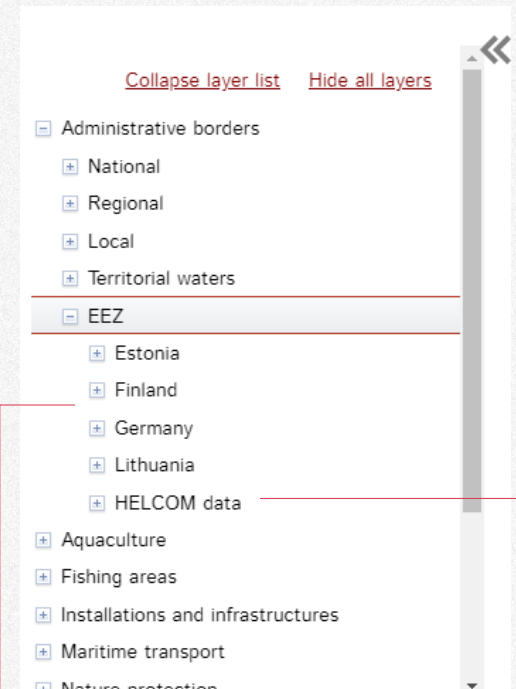


# Categories



A tree is opened by clicking on the cross button 

Most root categories, the ones users see when BASEMAPS is opened, contain subcategories as in the case of Administrative borders.



When users open those subcategories they see the countries or organizations that have provided data to BASEMAPS.

HELCOM data contains links to services from its centralized and harmonized database. It is useful in case there are gaps in the data.

# Types or services

The screenshot shows the BASEMAPS web application interface. The top navigation bar includes logos for Pan Baltic Scope, the European Union, Baltic LINES, Interreg Baltic Sea Region, and the European Development Fund. The main map area displays a satellite-style map of the Baltic Sea with territorial waters highlighted in green. The left sidebar contains a layer list under 'MSP input data' and 'MSP output data'. The 'Territorial Sea' layer is selected and has a 'WMS' icon next to it. The right sidebar shows the metadata for the 'Territorial Sea' layer, including resource type, host organization, access constraints, fees, WMS url, WMS layer name, WMS layer title, WMS layer description, language support, identification support, and display scale information.

There can be up to four types of services available in BASEMAPS. A small icon is displayed besides the layer name: WMS, WFS, AGS or DLD.

To view a layer users click on the WMS or AGS checkbox  which also opens the metadata window.

- **WMS (Web Map Service):** it shows the georeferenced image published through standard OGC WMS.

- **WFS (Web Feature Services):** These services provide data in GML format.
- **AGS (ArcGIS REST services):** data providers might want to publish ArcGIS Rest services instead of (or in addition to) WMS.
- **DLD (Downloadable services):** there is also the option for data providers to publish download services instead of WFS.

# Metadata

Administrative borders -> Territorial waters  
-> Estonia -> Territorial Sea

Resource type:	WMS layer
Host organization:	Estonian Land Board
Access constraints:	None
Fees:	None
WMS url:	<a href="http://inspire.maaamet.ee/arcgis/rest/services/public/au/MapServer/exprts/InspireView/service">http://inspire.maaamet.ee/arcgis/rest/services/public/au/MapServer/exprts/InspireView/service</a>
WMS layer name:	AU.TerritorialSea
WMS layer title:	Territorial Sea
WMS layer description:	Territorial sea data originates from Estonian Maritime Administration.
Language support:	est,eng
Identification support:	true
Max display scale:	No max display scale limit or information about it is not provided
Min display scale:	No min display scale limit or information about it is not provided

**Metadata:**

Metadata format:	XML
URL:	<a href="http://inspire.maaamet.ee/geoportal/csw/disc/overly?service=CSW&amp;version=2.0.2&amp;request=GetRecordByld&amp;outputschema=http://www.isotc211.org/2005/gmd&amp;elementsetname=full&amp;id=%7B051244FB-709F-4268-B565-7A0A10B0F633%7D">http://inspire.maaamet.ee/geoportal/csw/disc/overly?service=CSW&amp;version=2.0.2&amp;request=GetRecordByld&amp;outputschema=http://www.isotc211.org/2005/gmd&amp;elementsetname=full&amp;id=%7B051244FB-709F-4268-B565-7A0A10B0F633%7D</a>

Metadata information comes from WMS/WFS GetCapabilities and contains the following information:

- Type of service (WMS, WFS, AGS or DLD)
- Data provider
- Any kind of rights restrictions
- Possible fees to access data
- Link to the layer's link. To view GetCapabilities in browser users must paste the URL and add this string at the end: `?request=GetCapabilities&service=WMS`
- Name of layer as the data provider has published it in BASEMAPS
- Title of layer
- A short description of layer
- All languages supported by the service
- (Only for WMS) If `true` users can click on the map and get information
- (Only for WMS) Above this scale the layer will not be displayed
- (Only for WMS) Below this scale the layer will not be displayed
- Link to metadata. It may come from GetCapabilities or be provided by data provider

# Tag translation

The screenshot shows the BASEMAPS web application interface. The top navigation bar includes logos for Pan Baltic Scope, the European Union, Baltic Lines, and Interreg Baltic Sea Region. The main content area is divided into three sections:

- MSP input data / MSP output data:** A sidebar on the left with a layer list. The 'Natura 2000' section is expanded to show 'Finland', which includes 'Natura2000 Erityinen suojelualue (SPA)'. This layer is checked and has a 'WMS' tag next to it.
- Map:** A central map of the Baltic Sea region showing landmasses and water bodies. A red box highlights a specific area in the southern part of the map.
- Metadata window:** A pop-up window on the right titled 'Nature protection -> Natura 2000 -> Finland -> Natura2000 Erityinen suojelualue (SPA)'. It displays the following information:
  - Resource type: WMS layer
  - Host organization: Suomen ympäristökeskus
  - Access constraints: [License](#)
  - Fees: [Free](#)
  - WMS url: [http://paikkatieto.ymparisto.fi/arcgis/services/INSPIRE/SYKE\\_SuojellutAlueet/MapServer/WmsServer](http://paikkatieto.ymparisto.fi/arcgis/services/INSPIRE/SYKE_SuojellutAlueet/MapServer/WmsServer)
  - WMS layer name: PS.ProtectedSitesSpecialProtectionArea
  - WMS layer title: [Natura2000 Special Protection Area \(SPA\)](#)
  - WMS layer description: [Natura2000 Special Protection Area \(SPA\)](#)
  - Language support: Original text: [Natura2000 Erityinen suojelualue \(SPA\)](#)
  - Identification support: [Natura2000 Erityinen suojelualue \(SPA\)](#)
  - Max display scale: [Natura2000 Erityinen suojelualue \(SPA\)](#)
  - Min display scale: Translated by Microsoft
  - Metadata: (empty field)

Some data providers publish data in their original language which makes it difficult to understand for users from other countries.

Therefore, some tags in the metadata are automatically translated by BASEMAPS. They are displayed in [underlined blue text](#):

- [Access constraints](#)
- [Fees](#)

- [WMS layer name](#)
- [WMS layer description](#)

When the user hovers over the translated tag a small window shows the original text.

# Legend (only for WMS and AGS)

The screenshot displays the BASEMAPS web application interface. The top navigation bar includes logos for Pan Baltic Scope, the European Union, Baltic LINES, Interreg Baltic Sea Region, and the European Commission. The main interface is divided into three sections: a legend on the left, a map in the center, and a metadata panel on the right.

**MSP input data** | **MSP output data**

- Shipping traffic density
- IMO routes
  - Estonia
  - Finland
  - Germany
  - Latvia
  - HELCOM data
- Restricted areas for shipping
- Ports
- Fairways
- Ferry lines / routes / Motorways of the seas
- Roadsteads / port raid protection zones
- Anchorage
- Dredging**
  - Lithuania**
    - Grunto\_savarta** WMS
- HELCOM data
- Dumping
- Nature protection
- Military training
- Raw material extraction

**Maritime transport -> Dredging -> Lithuania -> Grunto\_savarta**

Resource type:	WMS layer
Host organization:	No information
WMS url:	https://www.geoportal.lt/arcgis/services/geoportal_public/Corps/MapServer/WMS/Server
WMS layer name:	9
WMS layer title:	Grunto_savarta
Language support:	No information
Identification support:	true
Max display scale:	No max display scale limit or information about it is not provided
Min display scale:	No min display scale limit or information about it is not provided
Metadata:	No metadata provided

1 : 866,686

The legend of the layer is available only for WMS and AGS and it is below the layer name. It comes from the provided GetCapabilities.

# Identification (only for WMS)

The screenshot shows the BASEMAPS web application interface. The top navigation bar includes the BASEMAPS logo, 'Pan Baltic Scope', the European Union flag, 'Baltic LINES', 'Interreg Baltic Sea Region', and 'Admin About'. Below the navigation bar are two tabs: 'MSP input data' and 'MSP output data'. The left sidebar contains a list of layers, including 'Fishing areas', 'Installations and infrastructures', 'Maritime transport', 'Nature protection', 'Natura 2000', 'Denmark', 'Finland', 'Latvia', 'Poland', 'Sweden', 'PS N2K Fageldirektivet', 'PS N2K Habitatdirektivet', 'HELCOM data', 'European Environment Agency data', 'Marine protected areas (MPA)', 'Ramsar sites', 'UNESCO biosphere reserve', 'Marine national parks', and 'Important bird areas (IBA)'. The 'PS N2K Habitatdirektivet' layer is selected and highlighted in blue. The main map area shows a satellite-style map of the Baltic Sea region with a blue hatched area representing the selected feature. A pop-up window titled 'PS N2K Habitatdirektivet' is open over the map, displaying the following attributes:

PS N2K Habitatdirektivet	
KOMMUN:	Mörbylånga, Gotland
AREA_HA:	1051111,2
OMRADESNAMN:	Hoburgs bank och Midsjöbankarna
SPA_DATUM:	201612
OMRADESKOD:	SE0330308
ARTER:	Alfågel, Ejder, Tobisgrissla, Tumlare
	Hoburgs bank och Midsjöbankarna ligger centralt i egentliga Östersjön och omfattar

Users can click on the displayed layer to see its attributes.

A pop-up window will display all features' attributes. When the list of attributes is long users can scroll it down using the scroll bar.

The pop-up window can be closed either by clicking on the cross on the top-right corner or clicking somewhere else on the screen.

The displayed information may be in national language.

The screenshot shows the BASEMAPS web application interface. At the top, there are logos for Pan Baltic Scope, the European Union, Baltic LINES, Interreg Baltic Sea Region, and the European Regional Development Fund. The main interface is divided into three sections: a left sidebar, a central map, and a right metadata panel.

**Left Sidebar (MSP input data):**

- Administrative borders
  - National
  - Regional
    - Denmark
    - Estonia
    - Finland
    - Germany
    - Lithuania
    - HELCOM data
  - Local
- Territorial waters
  - Estonia
    - mu:MaritimeBoundary **WFS**
    - Territorial Sea **WMS**
  - Finland
  - Germany
  - Lithuania
  - Sweden
  - HELCOM data
  - EEZ
  - Aquaculture
  - Fishing areas
  - Installations and infrastructures

**Central Map:** A map of the Baltic Sea region showing territorial waters and administrative borders. A red box highlights the 'mu:MaritimeBoundary' layer.

**Right Metadata Panel:**

Administrative borders -> Territorial waters  
-> Estonia -> mu:MaritimeBoundary

[Get features of WFS feature type](#)

Resource type: WFS feature type  
Host organization: Estonian Land Board  
Access constraints: None  
Fees: None  
WFS url: <http://inspire.maaamet.ee/arcgis/rest/services/public/au/MapServer/exts/InspireFeatureDownload/service>  
WFS feature type name: mu:MaritimeBoundary  
WFS feature type title: mu:MaritimeBoundary  
WFS feature type description: Estonian Land Board INSPIRE Download Service that provides Maritime Zones and Administrative Units.  
Language support: est,eng,est

**Metadata:**  
Metadata format: XML

Scale: 1 : 13,866,974

To get the data from WFS services users click on the checkbox corresponding to that service.

No layer is displayed. Instead, users get data by clicking on the link in the metadata window “Get features of WFS feature type”

The metadata is similar to WMS. Only the fields about identification and scale are missing.

Downloading can be time-consuming depending on the size of the layer and the speed of internet connection.

# ArcGIS REST services

The screenshot shows the BASEMAPS web application interface. The top navigation bar includes logos for Pan Baltic Scope, Interreg Baltic Sea Region, and the European Union. The main content area features a map of the Baltic Sea region with administrative boundaries. A left sidebar contains a tree view of data layers under 'MSP input data' and 'MSP output data'. The 'HELCOM data' section is expanded, showing 'Administrative boundaries' with a red 'AGS' icon. A right sidebar displays metadata for the selected layer, including 'Resource type: ArcGIS REST MapServer layer' and 'ArcGIS MapServer url: https://maps.helcom.fi/arcgis/rest/services/MADS/Background/MapServer/2'. A red box highlights the 'Administrative boundaries' layer in the sidebar and the metadata panel.

BASEMAPS allows users to view ArcGIS REST mapserver layers. Data providers might want to publish this type of services if WMS services are not available.

The metadata contains:

- Resource type: to check that it is a REST service.
- ArcGIS MapServer url: link to the REST url.

- Metadata format: the format can be HTML or XLM.
- URL: link to metadata.



# Download services

The screenshot shows the BASEMAPS web application interface. At the top, there are logos for Pan Baltic Scope, the European Union, Baltic LINES, Interreg Baltic Sea Region, and the European Regional Development Fund. The main interface is divided into three sections: a sidebar on the left, a central map, and a metadata panel on the right.

**Sidebar (MSP input data):**

- MSP input data
- MSP output data
- Collapse layer list / Hide all layers
- Administrative borders
  - National
  - Regional
    - Denmark
    - Estonia
    - Finland
    - Germany
    - Lithuania
  - HELCOM data
    - Administrative boundaries **ASB**
    - Administrative boundaries **DLO**
    - Administrative boundaries **WMS**
  - Local
  - Territorial waters
  - EEZ
  - Aquaculture
  - Fishing areas
  - Installations and infrastructures
  - Maritime transport
  - Nature protection
  - Military training
  - Raw material extraction

**Map:** A topographic map of the Baltic Sea region with administrative boundaries overlaid. Major cities like Oslo, Stockholm, Helsinki, Tallinn, Riga, Vilnius, Minsk, Moscow, Warsaw, and Berlin are labeled. The scale is 1:13,866,974.

**Metadata Panel (Administrative borders -> Regional -> HELCOM data -> Administrative boundaries):**

- Download this resource
- Resource type: Downloadable resource
- Downloadable resource URL: [http://metadata.heicom.fi/geonetwork/srv/eng/resources.get?uuid=b58b0b56-1a98-41d9-9bf4-5dc76f5069d3&fname=Administrative\\_borders\\_1.zip&access=public](http://metadata.heicom.fi/geonetwork/srv/eng/resources.get?uuid=b58b0b56-1a98-41d9-9bf4-5dc76f5069d3&fname=Administrative_borders_1.zip&access=public)
- Metadata format: HTML
- URL: [http://metadata.heicom.fi/geonetwork/srv/eng/catalog\\_search#metadata/b58b0b56-1a98-41d9-9bf4-5dc76f5069d3](http://metadata.heicom.fi/geonetwork/srv/eng/catalog_search#metadata/b58b0b56-1a98-41d9-9bf4-5dc76f5069d3)

Data providers might want to publish download services in addition to (or instead of) WFS. Download services contain a link to the layer usually as zip file.

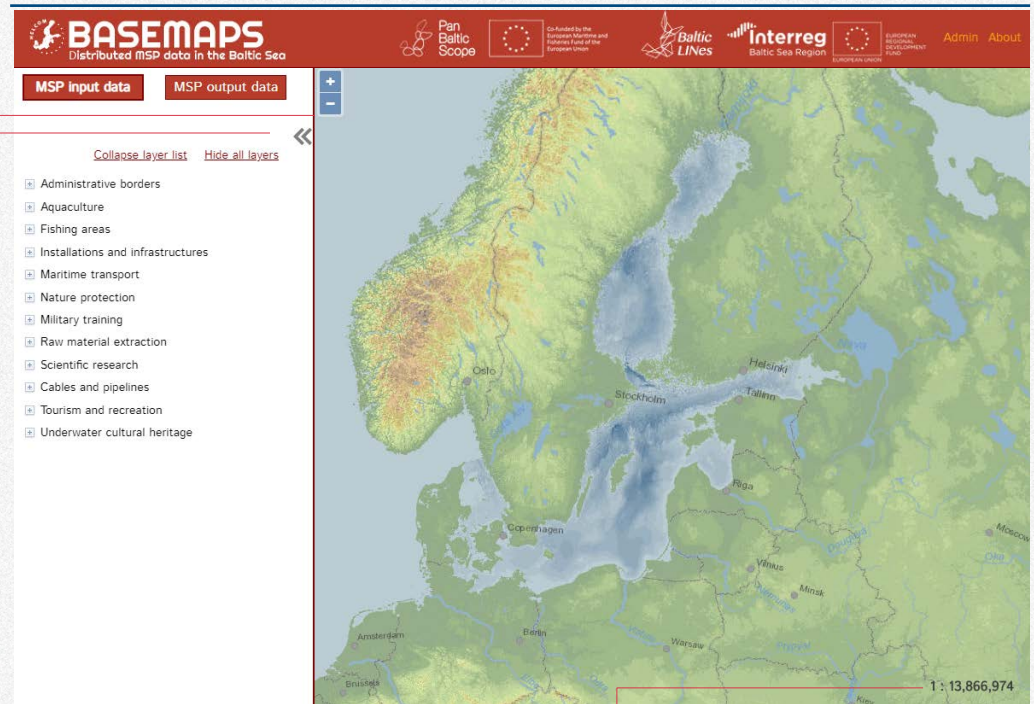
BASEMAPS does not display the layer when clicking on the checkbox. Instead, a link is provided to download the file.

The metadata contains:

- Resource type: to check that it is a REST service.

- Downloadable resource url: link to the REST URL.
- Metadata format: the format can be HTML or XLM.
- URL: link to metadata.

# Map viewer



The map viewer shows a map in Lambert projection where all layers are displayed.

There are three elements to help users view data:

- Collapse tree to close the tree categories and make the map bigger.
- Zoom buttons to zoom in and out. Also the wheel mouse is supported.

- Scale: some layers have scale restrictions so users can check here and in the layer's metadata in case they are not displayed.

The maximum scale is almost 1:450.000.000 and the minimum 1:2.

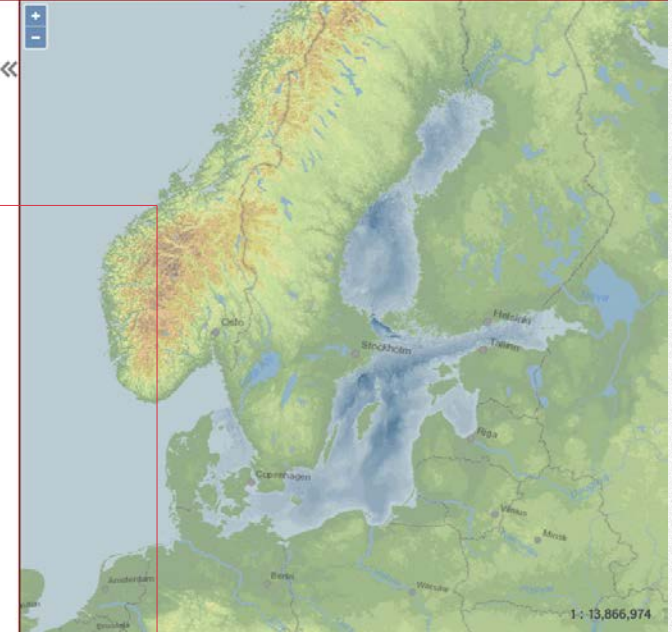
**MSP output**

MSP input data    **MSP output data**

**Important notes**

Data used in this application are only for testing purposes. MSP output data are under development.  
Copies of data are used in this application. Official data will be available in services indicated by each country.

- ▶ Plan Area
- ▶ View Planned Sea Uses
- ▶ Query Planned Sea Uses



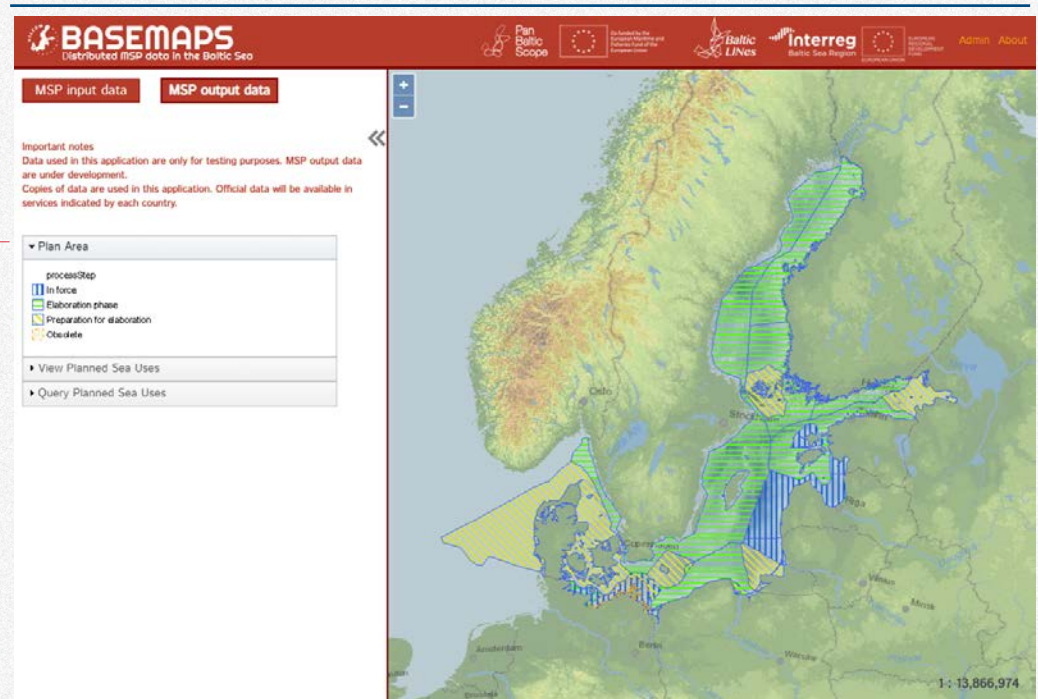
Users click on MSP output data to access the MSP plans.

Note that BASEMAPS uses copies of the data. The official datasets are available in services in each country.

MSP output data is divided in three categories:

- **Plan area:** status of each MSP plan per country.
- **View Planned Sea Uses:** Detail of each area by its sea use and type (for example, to check if an area is prioritized for military or forbidden for fishing).
- **With Query Planned Sea Uses:** users can check the detail of each sea use and type.

# Plan Area



In Plan Area users can see the status of each MSP plan per country.

There are four different categories:

- **In force:** The plan is already adopted and legally binding or active.
- **Elaboration phase:** The decision of starting the plan has been taken and officially announced.
- **Preparation for elaboration:** There is no official decision to elaborate the plan yet, but the legislation is in place and/or preparatory work for MSP has been launched.
- **Obsolete:** The plan has been substituted by another plan, or is not any longer in force.

**BASEMAPS**  
Distributed MSP data in the Baltic Sea

Plan Baltic Coopoe | European Union | Baltic LINES | Interreg Baltic Sea Region | Admin About

MSP input data | MSP output data

Important notes  
Data used in this application are only for testing purposes. MSP output data are under development.  
Copies of data are used in this application. Official data will be available in services indicated by each country.

Plan Area

- processStep
- In force
- Elaboration phase
- Preparation for elaboration
- Obsolete

View Planned Sea Uses  
Query Planned Sea Uses

MSP Plan Area

Object 1 of 1

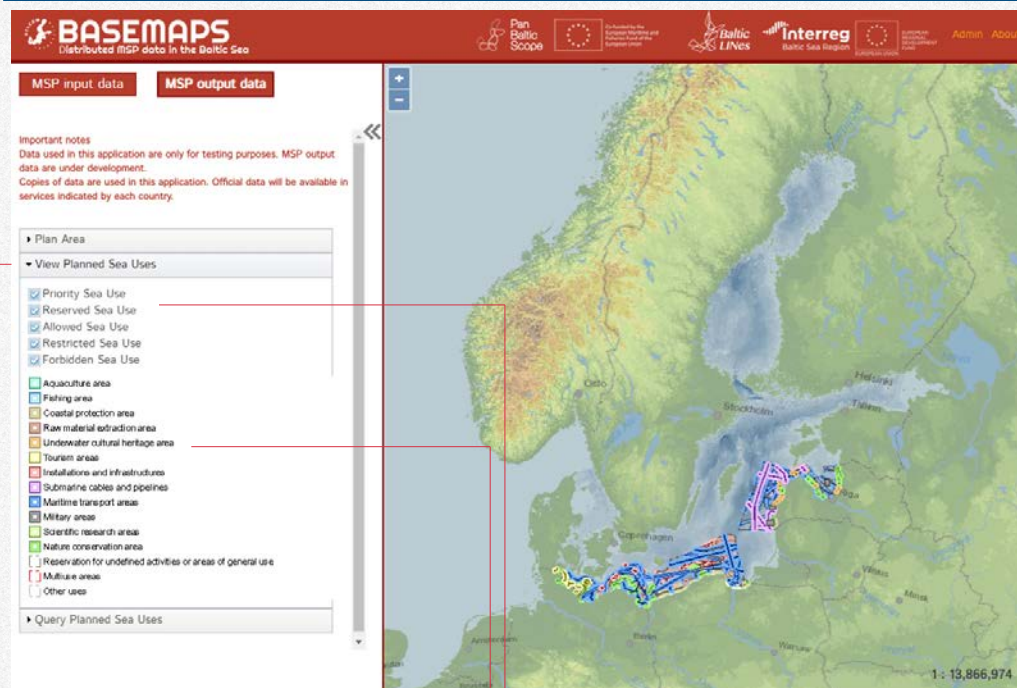
validFrom:  
validTo:  
planId: MSPDK.2017.1  
levelOfSpatialPlan: national  
officialTitle: Maritime Spatial Plan of Denmark  
alternativeTitle: Den Danske Havplan  
englishTitle: Maritime Spatial Plan of Denmark  
processStep: Preparation for elaboration  
responsibleAuthority: Danish Maritime Authority  
documentation:  
Country: DK  
regulationNature: General binding  
previousMSPPlan:  
scale:

1 : 13,866,974

The details of each plan can be found when clicking on the area.

Information like the title of the plan in its native language, the responsible authority and the regulation nature are shown in the pop-up window.

# Planned Sea Uses



The detail of each MSP is shown in View Planned Sea Uses. It shows which countries have areas with these sea uses types:

- **Priority:** planned sea use with a certain priority.
- **Reserved:** sea use which is to be given specific weight in relation to others.
- **Allowed:** planned sea use which is allowed.

- **Restricted:** planned sea use with some kind of restriction.
- **Forbidden:** planned sea use which is forbidden.

Users can switch on and off each sea use type to have an overview of that particular use in all MSP plans.

Then, users can view which sea uses are associated to those planned sea uses types.

# Query Planned Sea Use

The screenshot shows the BASEMAPS web application interface. At the top, there is a header with the logo 'BASEMAPS Distributed MSP data in the Baltic Sea' and logos for 'Pan Baltic Coopie', 'Baltic LINES', and 'Interreg Baltic Sea Region'. Below the header, there are two tabs: 'MSP input data' and 'MSP output data'. A section titled 'Important notes' contains text: 'Data used in this application are only for testing purposes. MSP output data are under development. Copies of data are used in this application. Official data will be available in services indicated by each country.' Below this, there is a navigation menu with the following items: 'Plan Area', 'View Planned Sea Uses', and 'Query Planned Sea Uses'. The 'Query Planned Sea Uses' item is expanded, showing a list of sea use types: 'All Sea Use Types', 'Priority Sea Use', 'Reserved Sea Use', 'Allowed Sea Use', 'Restricted Sea Use', and 'Forbidden Sea Use'. To the right of the menu is a map of the Baltic Sea region, showing the coastlines and major cities like Oslo, Stockholm, Helsinki, Tallinn, Riga, and Copenhagen. The map has a scale of 1:13,866,974.

Query Planned Sea Uses allows users to ask more complex questions to the data. For example: How many MSP areas are prioritized as nature conservation? Or, are there any forbidden areas for diving?

The queries are done by each sea use type (priority, reserved, allowed, restricted and forbidden). There is also the possibility to query all sea use types at the same time clicking on All Sea Use Types.



▼ All Sea Use Types

Expand all Collapse all Hide all Zoom to

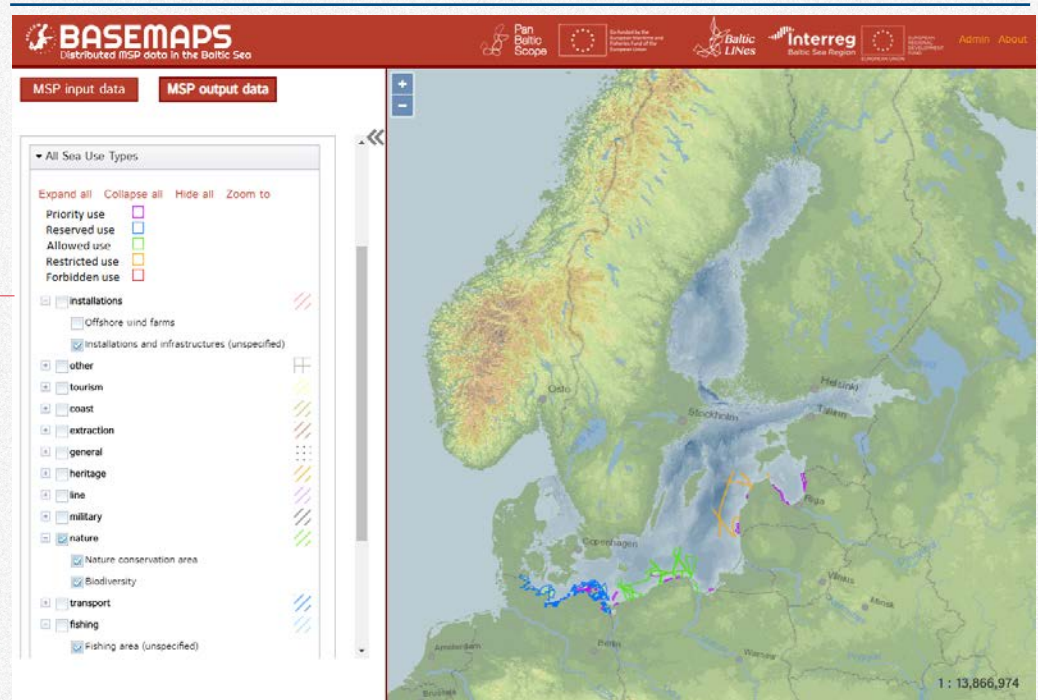
- Priority use
- Reserved use
- Allowed use
- Restricted use
- Forbidden use
- Installations
- Offshore wind farms
- Installations and infrastructures (unspecified)
- other
- tourism
- coast
- extraction
- general
- heritage
- line
- military
- nature
- Nature conservation area
- Biodiversity
- transport
- fishing
- Fishing area (unspecified)



Query Planned Sea Uses has useful tools to view the data:

- Expand all: It opens all the sub categories under sea uses.
- Collapse all: It closes all sub categories.
- Hide all: If there are many datasets displayed, this tool hides them all.
- Zoom to: It zooms to the selected area.

# Query Planned Sea Use —All Sea use Types



This panel allows users to query all sea uses regardless its type.

For example, users can view all nature and fishing areas. The border colour of each area means the use type type (priority, reserved, allowed, restricted and forbidden).

**BASEMAPS**  
Distributed MSP data in the Baltic Sea

Pan Baltic Coopoe | Funded by the European Union | Baltic LINES | Interreg Baltic Sea Region | Admin About

MSP input data | MSP output data

**All Sea Use Types**

Expand all | Collapse all | Hide all | Zoom to

Priority use:    
 Reserved use:    
 Allowed use:    
 Restricted use:    
 Forbidden use:

Installations   
 Offshore wind farms   
 Installations and infrastructures (unspecified)

other   
 tourism   
 coast   
 extraction   
 general   
 heritage   
 line   
 military   
 nature   
 Nature conservation area   
 Biodiversity   
 transport   
 fishing   
 Fishing area (unspecified)

**All Sea Use Types** ✕

2 objects found in this location. Use arrows below to view other objects information.

Object 1 of 2 Next >>

Priority sea use: Nature conservation area   
 Reserved sea use:   
 Allowed sea use:   
 Restricted sea use:   
 Forbidden sea use:   
 Use description:   
 Area (sq km): 787.28

1 : 3,466,744

By clicking on the layers, users can view the information of overlapped areas. The info of those areas is displayed by clicking on Next or Previous.

# Query Planned Sea Use —use types

The screenshot displays the BASEMAPS web application interface. The top navigation bar includes logos for Pan Baltic Coopie, the European Union, Baltic LINES, Interreg Baltic Sea Region, and the Ministry of Environment and Climate Change. The main interface is divided into two tabs: 'MSP input data' and 'MSP output data'. The left sidebar contains a menu with options like 'Plan Area', 'View Planned Sea Uses', and 'Query Planned Sea Uses'. Under 'Query Planned Sea Uses', there are sections for 'All Sea Use Types' and 'Priority Sea Use'. A list of sea use types is shown with checkboxes and zoom icons: coast, extraction, general, heritage, installations (with sub-items for 'Installations and infrastructures (unspecified)' and 'Offshore wind farms'), line (with 'Electricity cables'), military, nature (with 'Nature conservation area' and 'Biodiversity'), tourism, and transport. The main map area shows a topographic map of the Baltic Sea region with purple lines and boxes indicating the results of the query. The scale is 1:13,866,974.

All data can be queried by each sea use type which allows users to ask questions such as what priority areas are assigned to nature and installations?

**Admin panel**

---

# Administration panel

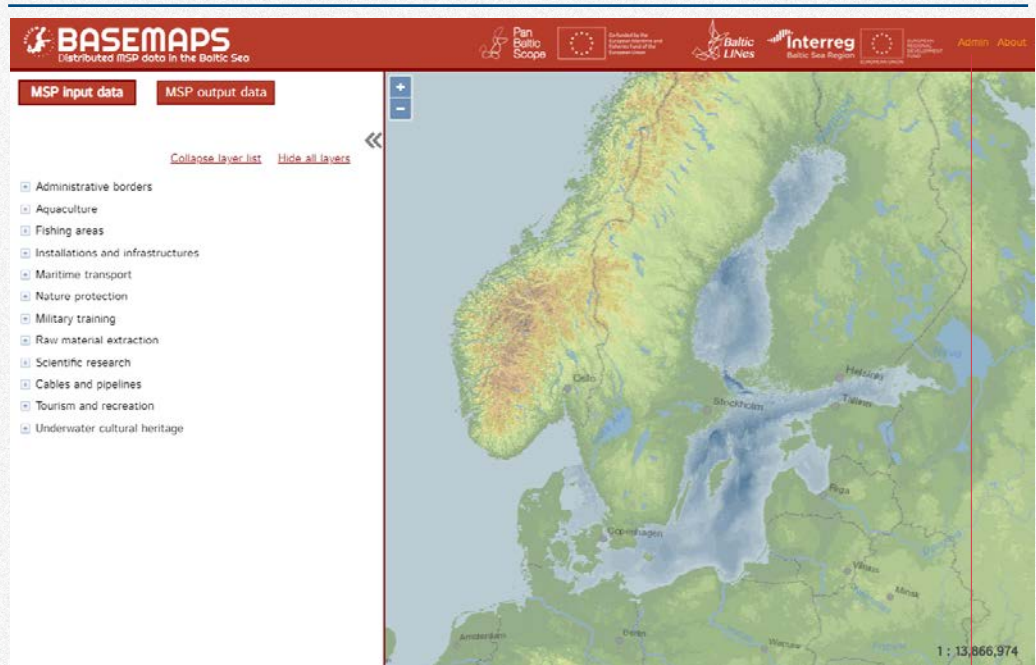
*All data and users rights are managed in the password protected admin panel*

The admin panel was designed to allow users with specific rights to add, edit and delete layers in BASEMAPS.

Users can have admin or provider rights.

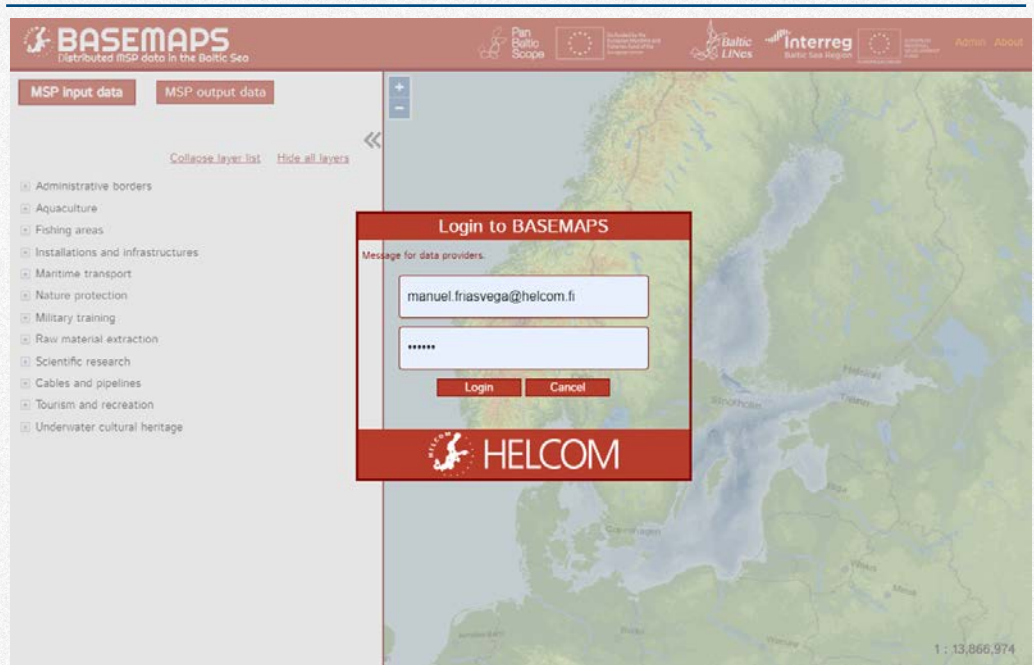
Users with admin rights have full control to add or delete all layers. They can also add users with providers rights.

Users with provider rights have permission over the categories they administer. Usually, providers add data from their own countries or institutions.



The administration panel allows data providers to add and edit layers to BASEMAPS.

Users can access the administration panel through the Admin button.

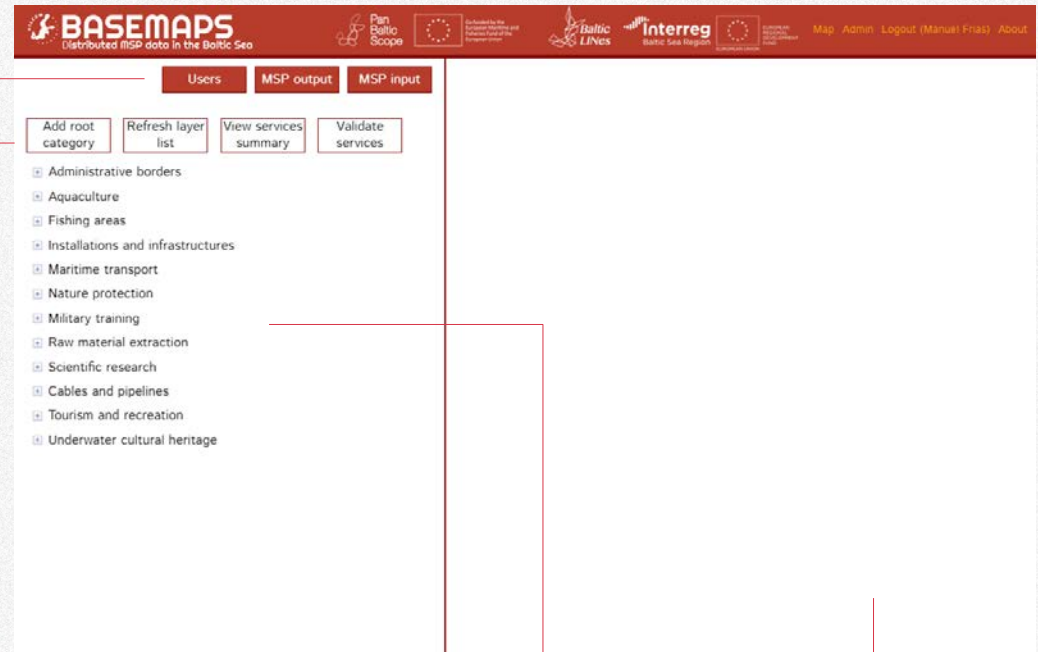


To access the administration panel an account must be created by HELCOM. If users need one they should contact: [data@helcom.fi](mailto:data@helcom.fi)

Login details will be submitted by request.



# Admin panel structure



The admin panel is divided in four parts:

- Management of users, input and output data
- Basic operations (only for input data)

- Layer list
- Edit panel

# Users rights—only for administrators

The screenshot shows the 'Users' management interface. At the top, there are logos for BASEMAPS (Distributed MSP data in the Baltic Sea), Pan Baltic Scope, and Interreg (Baltic Sea Region). Below the header are two tabs: 'Users' and 'Layers'. The 'Users' tab is active and displays a list of users under the heading 'ADMIN:'. Each user entry includes a name, a 'Change password' link, a 'View/Update' link, and a 'Delete' link. Below the 'ADMIN' section is a 'PROVIDER:' section with one user entry. A red box highlights the 'Users' tab and the user list.

The Users button allows administrators to add, view, update and delete accounts.

There are two kinds of accounts:

- **Admin:** These accounts have full control over all layers. They can add and delete accounts. They can also add, update and delete layers in all categories.

- **Provider:** These accounts have rights to add and update layers only in the categories assigned by the administrators.

### Change password

New password:

Repeat password:

[Save](#) [Cancel](#)

### Update user

Name:

Email:

Phone number:

Organization:

Position:

[Save](#) [Cancel](#)

<input type="text" value="User's Name"/> <input type="text" value="user@domain.com"/>	<a href="#">Change password</a> <a href="#">View/Update</a> <a href="#">Delete</a>
--	--

Users with admin rights can:

- Add new users
- Change password of all users
- Update information of all users
- Delete accounts

**BASEMAPS**  
Distributed MSP data in the Baltic Sea

Pan Baltic Scope

Co-funded by the European Union and the Interreg Baltic Sea Region

Baltic LINES

Interreg Baltic Sea Region

EUROPEAN UNION EUROPEAN STRUCTURAL FUNDS

Admin About

Users Layers

2 Administrative borders -> EEZ -> Sweden -> Manage users

1

Category data providers:

Add new

Name:	xxxxxx-xxxxxx	Delete
Email:	xxxxxx.guy@xxxxxx@xxxxxx.xx	Delete
Name:	xxxxxx-xxxxxx	Delete
Email:	xxxxxx.guy@xxxxxx@xxxxxx.xx	Delete

Close

Administrators can give rights to certain categories by using the Add user button . This allows data providers to edit, add or delete datasets only in their own countries.

When clicking on the Add user button the information about users with rights is shown on the right.

To add a new provider administrator click on Add new and select it from the list. Providers accounts are previously added in the Users button (see previous page).

Administrators can also delete the permissions to access a category.

**Admin panel**  
**MSP input**

---

# Basic operations

Add root category

Refresh layer list

View services summary

Validate services

Admin and data providers can do basic operations:

- **Add root category:** This is done in case a new main category needs to be added (only with admin rights).
- **Refresh layer list:** Users can refresh the layer list after adding or deleting one category to see the changes.
- **View services summary :** a report is created with a summary of all available services in BASEMAPS divided in categories (only with admin rights).
- **Validate service:** It validates all services in all categories (only with admin rights).

## Add root category

### Add root category

**Label:**   
Label will appear in the layer list

**HELCOM id:**   
Filled in only by HELCOM.

**Metadata URL:**   
Input any valid metadata URL pointing to metadata web page (HTML), XML or plain text content that describes this category.

**Metadata format:**

[Save](#) [Cancel](#)





In Add root category administrators can add a new main category by adding:

- Label: the name of the category, for example, Installations.
- HELCOM id: added only by HELCOM.
- Metadata URL: to be added if there is metadata for that category.
- Metadata format: it can be HTML, XML or plain text.

# Layer list

The screenshot displays the BASEMAPS web application interface. At the top, there is a navigation bar with the BASEMAPS logo (Distributed MSP data in the Baltic Sea), logos for Pan Baltic Scope, the European Union, Baltic LINES, Interreg Baltic Sea Region, and the European Development Fund. On the right of the navigation bar are links for 'Admin' and 'About'. Below the navigation bar, there are two tabs: 'Users' and 'Layers'. The 'Layers' tab is active, showing a list of categories. At the top of the list are four buttons: 'Add root category', 'Refresh layer list', 'View services summary', and 'Validate services'. The list includes categories such as 'Administrative borders', 'Aquaculture', 'Fishing areas', 'Installations and infrastructures', 'Maritime transport', 'Nature protection', 'Natura 2000', 'Marine protected areas (MPA)', 'Denmark', 'Estonia', 'Finland', 'Germany', 'Latvia', 'Lithuania', 'Poland', 'Russia', 'Sweden', 'HELCOM data', 'Ramsar sites', and 'UNESCO biosphere reserve'. The 'Marine protected areas (MPA)' category is highlighted, and a tooltip is visible over it, containing icons for editing (pencil), adding a user (person), moving up (up arrow), and moving down (down arrow).

In the layer list users see four buttons when hovering over a category:

-  View or edit: to view or edit the category.
-  Add user: give a user right to edit the category (only with admin rights)..
-  Move the category up.
-  Move the category down.



# Add subcategory

**BASEMAPS**  
Distributed MSP data in the Baltic Sea

Pan Baltic Scope

Co-funded by the European Maritime and Fisheries Fund of the European Union

Baltic LINES




Interreg Baltic Sea Region

EUROPEAN UNION EUROPEAN STRUCTURAL FUND

Admin About

Users Layers

Add root category Refresh layer list View services summary Validate services

- Administrative borders
- Aquaculture
- Fishing areas
- Installations and infrastructures
- Maritime transport
- Nature protection
- Natura 2000
- Marine protected areas (MPA)**   
- Denmark
- Estonia
- Finland
- Germany
- Latvia
- Lithuania
- Poland
- Russia
- Sweden
- HELCOM data
- Ramsar sites
- UNESCO biosphere reserve

Nature protection -> Marine protected areas (MPA)

Category information and it's content

Delete this category with all content

**Info:**

Label: Marine protected areas (MPA) [Edit](#)

HELCOM id: Not assigned [Edit](#)

Metadata for this category:


category: Not assigned [Edit](#)

**Sub-categories:**

Add new

Label:	Denmark	<a href="#">Edit</a>
HELCOM id:		<a href="#">Delete</a>
Label:	Estonia	<a href="#">Edit</a>
HELCOM id:		<a href="#">Delete</a>
Label:	Finland	<a href="#">Edit</a>
HELCOM id:		<a href="#">Delete</a>
Label:	Germany	<a href="#">Edit</a>

[Close](#)

To add a subcategory users click on the button  and then on Add new under Subcategories.

Users add the label and the rest of required parameters as in Add root category in page 39.

# Add service

The screenshot shows the BASEMAPS web application interface. At the top, there is a navigation bar with logos for Pan Baltic Scope, the European Union, Baltic LINES, Interreg Baltic Sea Region, and the European Commission. Below the navigation bar, there are two tabs: 'Users' and 'Layers'. The 'Layers' tab is active, showing a list of categories on the left and a detailed view of a selected category on the right.

**Users** | **Layers**

Buttons: Add root category, Refresh layer list, View services summary, Validate services

- Administrative borders
- Aquaculture
- Fishing areas
- Installations and infrastructures
- Maritime transport
- Nature protection
  - Natura 2000
  - Marine protected areas (MPA)
- Denmark** (selected)
- Estonia
- Finland
- Germany
- Latvia
- Lithuania
- Poland
- Russia
- Sweden
- HELCOM data
- Ramsar sites
- UNESCO biosphere reserve

**Nature protection -> Marine protected areas (MPA) -> Denmark**

**Category information and it's content**

Delete this category with all content

**Info:**

Label:	Denmark	Edit
HELCOM id:	Not assigned	Edit
Metadata for this category:	Not assigned	Edit

**Sub-categories:**

Add new

No sub-categories in this category


**WMS layers:**

Add new

No WMSes in this category

**WFS feature types:**

Close

To add a service users select first the category where they want to add it and click on View or edit .

The next step is to click on Add new under WMS layers, WFS feature types, Downloadable resources or ArcGIS MapServers layers

**WMS layers:**

Add new WMS layer

URL:  Validate

Input valid WMS url. Examples:  
http://www.myserver.com/arcgis/services/maps/MapServer/WMServer  
https://www.myserver.com/service?SERVICENAME=name&LOGIN=login&PASSWORD=password

Label:

Label will appear in the layer list. It can be WMS layer's title from the WMS GetCapabilities or other label describing this layer.

HELCOM id:

Filled in only by HELCOM.

Cancel

1 Enter the service link without the request=GetCapabilities (string before the interrogation mark)

**WMS layers:**

Add new WMS layer

URL:  Validate

Input valid WMS url. Examples:  
http://www.myserver.com/arcgis/services/maps/MapServer/WMServer  
https://www.myserver.com/service?SERVICENAME=name&LOGIN=login&PASSWORD=password

WMS layer name:

Layer name extracted from WMS GetCapabilities.

Label:

Label will appear in the layer list. It can be WMS layer's title from the WMS GetCapabilities or other label describing this layer.

HELCOM id:

Filled in only by HELCOM.

2 Click on Validate. A message "WMS is valid" will appear. If users get "WMS not valid" the service did not pass validation. Providers should contact their IT department for support.

If the service passed validation, a new input field shows up with the layer names as in the GetCapabilities file (only for WMS and WFS services).

**WMS layers:**

Add new WMS layer

URL:  Validate

Input valid WMS url. Examples:  
http://www.myserver.com/arcgis/services/maps/MapServer/WMServer  
https://www.myserver.com/service?SERVICENAME=name&LOGIN=login&PASSWORD=password

WMS layer name:

Choose layer (layer names have been extracted from WMS GetCapabilities).

Label:

Label will appear in the layer list. It can be WMS layer's title from the WMS GetCapabilities or other label describing this layer.

HELCOM id:

Filled in only by HELCOM.

3 Type the name of the layer as it appears in GetCapabilities or other appropriate name.

The field HELCOM id is filled in only by HELCOM if necessary.

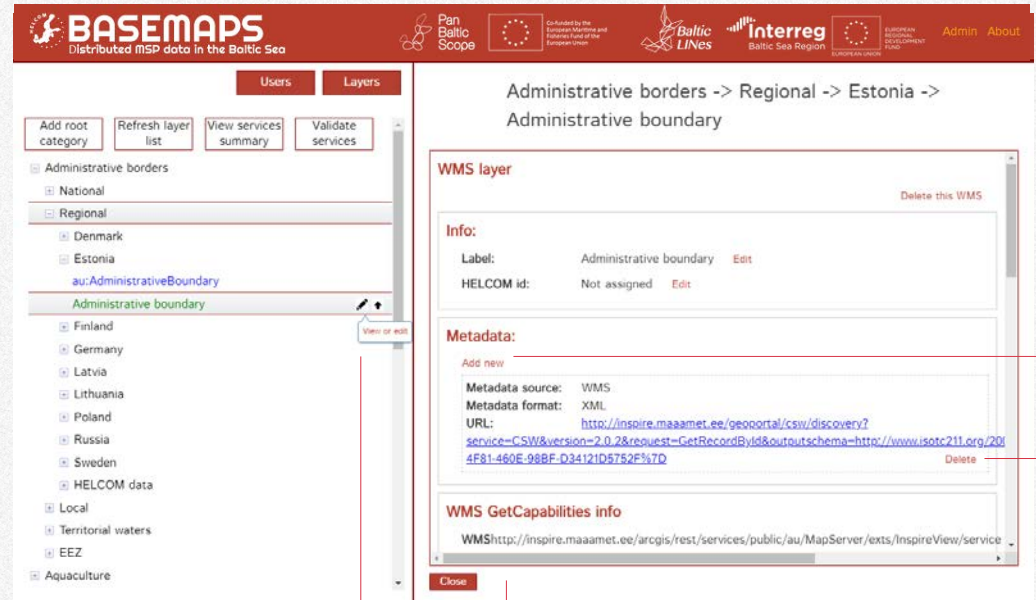
- Add root category
- Refresh layer list
- View services summary
- Validate services

Each new service is shown in the layer list in different color:

- [-] Administrative borders
  - [+] National
  - [-] Regional
    - [+] Denmark
    - [-] Estonia
      - au:AdministrativeBoundary
      - Administrative boundary
    - [+] Finland
    - [+] Germany
      - Latvia
    - [+] Lithuania
      - Poland
      - Russia
      - Sweden
    - [-] HELCOM data
      - Administrative boundaries
      - Administrative boundaries
      - Administrative boundaries

- WFS service
- WMS service
- ArcGIS REST service
- Download service

# Edit service



To edit a WMS service click on Add or edit .

The edit panel on the right will show info about the service and the metadata. The WMS GetCapabilities info shows all info from the service.

Editing a service allows to:

- Edit the label that users see in the layer list (see next page).

- Edit or add HELCOM id. Used only by HELCOM.
- Add new or delete the existing metadata.

To replace the WMS service with a new one users will need to delete it and create another (see pages 42 and 43).

WMS layer Delete this WMS

**Info:**

Label: Administrative boundary Edit

HELCOM id: Not assigned Edit

**1** Click on the edit button in the edit panel.

WMS layer Delete this WMS

**Info:**

Label:  Cancel Save


Label will appear in the layer list

HELCOM id: Not assigned Edit


**2** Change or correct the label and then click on Save. To undo, click cancel.

# Delete service

The screenshot displays the BASEMAPS web interface. The top navigation bar includes logos for Pan Baltic Scope, the European Union, Baltic LINES, Interreg Baltic Sea Region, and the European Regional Development Fund. The main content area is titled 'Administrative borders -> Regional -> Estonia -> Administrative boundary'. On the left, a tree view shows the hierarchy: Administrative borders > National > Regional > Estonia > au:AdministrativeBoundary > Administrative boundary. A 'View or edit' button is next to the selected layer. The right panel shows the 'WMS layer' details for 'Administrative boundary', including 'Info' (Label: Administrative boundary, HELCOM id: Not assigned), 'Metadata' (source: WMS, format: XML, URL: http://inspire.maaamet.ee/geonortal/csw/discovery?service=C5W&version=2.0.2&request=GetRecordById&outoutschema=http://www.isotc211.org/2004/4F81-460E-98BF-D34121D8752F%7D), and 'WMS GetCapabilities info' (WMShttp://inspire.maaamet.ee/arcgis/rest/services/public/au/MapServer/externs/InspireView/service). A 'Delete this WMS' button is visible in the top right of the WMS layer panel.

To delete a service click on   
Click then on Delete this WMS.

The screenshot shows the BASEMAPS web application interface. The header includes the BASEMAPS logo and navigation links for Users and Layers. The main content area is titled 'Nature protection -> Natura 2000 -> Denmark'. On the left, a tree view shows the hierarchy: EEZ, Aquaculture, Fishing areas, Installations and infrastructures, Maritime transport, Nature protection, Natura 2000, and Denmark. Under 'Denmark', two WMS layers are listed: 'FUGLE\_BES\_OMR' and 'HABITAT\_OMR'. The 'FUGLE\_BES\_OMR' layer is selected, and its metadata is displayed on the right. The metadata includes: 'Metadata for this category: Not assigned', 'Sub-categories: No sub-categories in this category', and 'WMS layers:'. The 'WMS layers' section lists two layers: 'FUGLE\_BES\_OMR' and 'HABITAT\_OMR', each with its WMS URL and 'View or edit' and 'Delete' buttons. A 'Close' button is at the bottom of the metadata panel.

Alternatively, the service can be deleted by clicking on the edit buttons of each category .

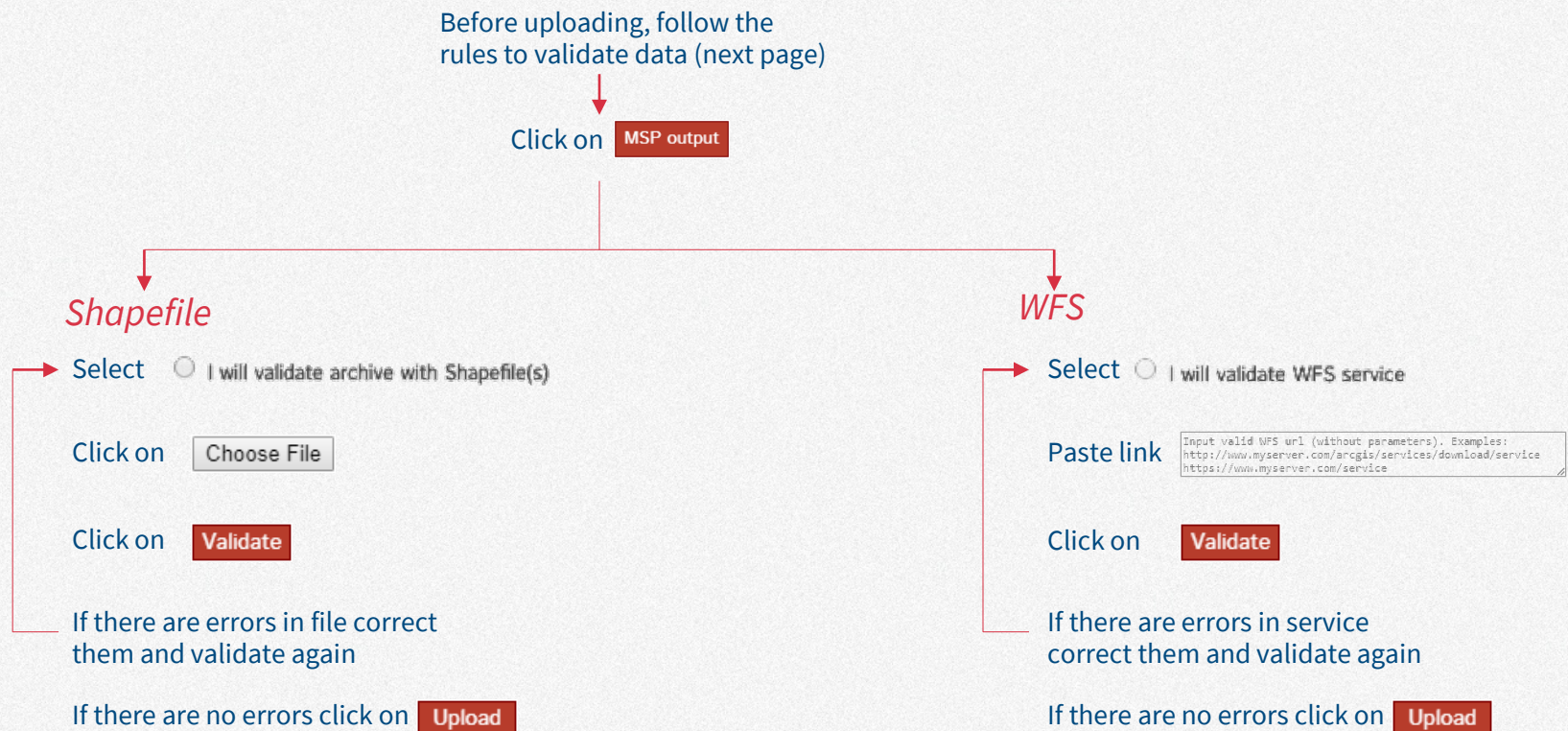
An edit and delete button is available for each service.



**Admin panel**  
**MSP output**

# MSP output

## How to validate and upload data—summary



# MSP output - validation rules

For shapefiles and WFS. Users must be sure data is valid before uploading



## File validation

1

Shapefile: Data in ZIP file.  
WFS: Data should be in valid WFS.

2

Shapefile: ZIP contains shapefile. These file extensions are allowed: shp, shx, dbf, sbn, sbx, fbn, fbx, ain, aih, atx, ixS, mxs, prj, xml, cpg.  
WFS: WFS feature types should be valid.



## Dataset validation

3

Spatial reference should be defined.

4

Dataset should be with polygon geometry.

5

priority, reserved, allowed, restricted, forbidden, useDsc, PlanID fields should be present in the dataset.



## Feature validation

6

Empty geometries should not be included.

7

At least 1 of 5 fields (priority, reserved, allowed, restricted, forbidden) should have a value.

8

priority, reserved, allowed, restricted, forbidden fields should have value(s) according to [SeaUse code list](#): multiple comma separated values are allowed.

9

If forbidden field has a value, then priority, reserved, allowed, restricted fields should not have that value.

10

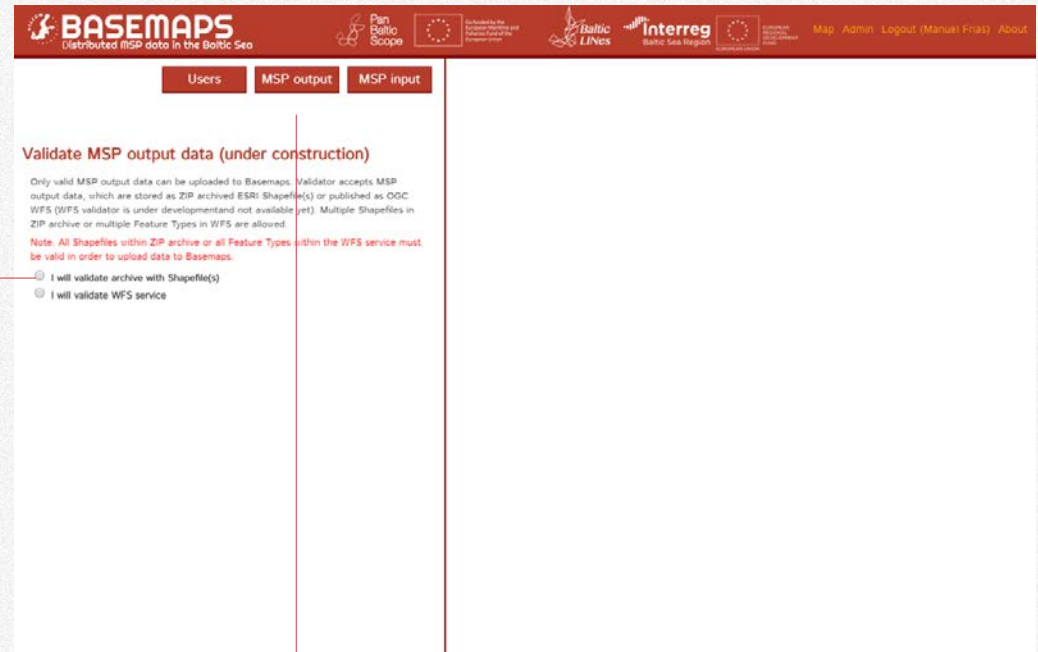
If restricted field has a value, then priority, reserved, allowed, forbidden fields should not have that value.

11

PlanID field should have a value.

# MSP output

## How to validate and upload data— detailed process



The MSP output button allows users with appropriate rights to upload MSP plans data to BASEMAPS.

Users can upload shapefiles or data through OGC WFS services

Before uploading, users must be sure that the data is in the right format following the commonly agreed validation rules.

# MSP output—validating and uploading shapefiles

The screenshot shows the BASEMAPS web application interface. At the top, there is a navigation bar with the BASEMAPS logo and several partner logos including Pen Baltic Scope, Interreg Baltic Sea Region, and the European Union. Below the navigation bar, there are three tabs: 'Users', 'MSP output', and 'MSP input'. The 'MSP output' tab is selected, and the main content area displays a form titled 'Validate MSP output data (under construction)'. The form contains the following text and controls:

Only valid MSP output data can be uploaded to Basemaps. Validator accepts MSP output data, which are stored as ZIP archived ESRI Shapefile(s) or published as OGC WFS (WFS validator is under development and not available yet). Multiple Shapefiles in ZIP archive or multiple Feature Types in WFS are allowed.

**Note: All Shapefiles within ZIP archive or all Feature Types within the WFS service must be valid in order to upload data to Basemaps.**

1  I will validate archive with Shapefile(s)  
 I will validate WFS service

2  No file chosen

MSP output data in Shapefiles are validated according to following rules:

**File validation**

- 1 - Data should be in ZIP archive.
- 2 - ZIP archive should contain valid ESRI Shapefile(s). All files should be placed on one file hierarchy level (no folders allowed within ZIP archive). Required are files with extensions: ".shp", ".shx", ".dbf". Allowed are files with extensions: ".shp", ".shx", ".dbf", ".sbn", ".sbx", ".fbo", ".fba", ".ain", ".aih", ".atx", ".lrs", ".mxd", ".prj", ".xml", ".cpg".

**Dataset validation (checked if above rules are met)**

- 3 - Spatial reference should be defined.
- 4 - Dataset should be with polygon geometry.
- 5 - "priority", "reserved", "allowed", "restricted", "forbidden", "useDisc", "PlanID" fields should be present in the dataset.

**Feature validation (checked if above rules are met)**

- 6 - Empty geometries should not be included.
- 7 - At least 1 of 5 fields ("priority", "reserved", "allowed", "restricted", "forbidden") should have a value.
- 8 - "priority", "reserved", "allowed", "restricted", "forbidden" fields should have

Once the users click on I will validate archive with Shapefile(s), they click on Choose file to browse and select the dataset.

**BASEMAPS**  
Distributed MSP data in the Baltic Sea

Pen Baltic Scope | European Union | Baltic Lines | Interreg Baltic Sea Region

Map Admin Logout (Manual Firas) About

Users | MSP output | MSP input

### Validate MSP output data (under construction)

Only valid MSP output data can be uploaded to Basemaps. Validator accepts MSP output data, which are stored as ZIP archived ESRI Shapefile(s) or published as OGC WFS (WFS validator is under development and not available yet). Multiple Shapefiles in ZIP archive or multiple Feature Types in WFS are allowed.

**Note: All Shapefiles within ZIP archive or all Feature Types within the WFS service must be valid in order to upload data to Basemaps.**

I will validate archive with Shapefile(s)  
 I will validate WFS service

Swedish-MS\_190822.zip

MSP output data in Shapefiles are validated according to following rules:

**File validation**

- 1 - Data should be in ZIP archive.
- 2 - ZIP archive should contain valid ESRI Shapefile(s). All files should be placed on one file hierarchy level (no folders allowed within ZIP archive). Required are files with extensions: ".shp", ".shx", ".dbf". Allowed are files with extensions: ".shp", ".shx", ".dbf", ".sbn", ".sbx", ".bn", ".fbx", ".ain", ".aih", ".atx", ".ixs", ".mxs", ".prj", ".xml", ".cpq".

**Dataset validation (checked if above rules are met)**

- 3 - Spatial reference should be defined.
- 4 - Dataset should be with polygon geometry.
- 5 - "priority", "reserved", "allowed", "restricted", "forbidden", "useDisc", "PlanID" fields should be present in the dataset.

**Feature validation (checked if above rules are met)**

- 6 - Empty geometries should not be included.
- 7 - At least 1 of 5 fields ("priority", "reserved", "allowed", "restricted", "forbidden") should have a value.
- 8 - "priority", "reserved", "allowed", "restricted", "forbidden" fields should have

**Validation**

**Selected file:** ZIP archive contains Shapefile(s): anv-rekreation-MSP.shp, anv-sandutvinning-MSP.shp, anv-sjofart-MSP.shp, anv-yrkesfiske-MSP.shp, hansyn-kulturmiljo-MSP.shp, MSP-areas.shp, omraden-MSP.shp

The shapefiles contained in the zip files are displayed and then the user clicks on Validate. This process checks if the shapefiles meets all the rules.

**BASEMAPS**  
Distributed MSP data in the Baltic Sea

Pen Baltic Scope | European Union | Baltic Lines | Interreg Baltic Sea Region

Map Admin Logout (Manual Firas) About

Users | **MSP output** | MSP input

### Validate MSP output data (under construction)

Only valid MSP output data can be uploaded to Basemaps. Validator accepts MSP output data, which are stored as ZIP archived ESRI Shapefile(s) or published as OGC WFS (WFS validator is under development and not available yet). Multiple Shapefiles in ZIP archive or multiple Feature Types in WFS are allowed.

**Note:** All Shapefiles within ZIP archive or all Feature Types within the WFS service must be valid in order to upload data to Basemaps.

I will validate archive with Shapefile(s)  
 I will validate WFS service

No file chosen

MSP output data in Shapefiles are validated according to following rules:

**File validation**

- 1 - Data should be in ZIP archive.
- 2 - ZIP archive should contain valid ESRI Shapefile(s). All files should be placed on one file hierarchy level (no folders allowed within ZIP archive). Required are files with extensions: ".shp", ".shx", ".dbf". Allowed are files with extensions: ".shp", ".shx", ".dbf", ".sbn", ".sbx", ".fbs", ".ain", ".aih", ".atx", ".ixs", ".mxs", ".prj", ".xml", ".cpq".

**Dataset validation (checked if above rules are met)**

- 3 - Spatial reference should be defined.
- 4 - Dataset should be with polygon geometry.
- 5 - "priority", "reserved", "allowed", "restricted", "forbidden", "useDisc", "PlanID" fields should be present in the dataset.

**Feature validation (checked if above rules are met)**

- 6 - Empty geometries should not be included.
- 7 - At least 1 of 5 fields ("priority", "reserved", "allowed", "restricted", "forbidden") should have a value.
- 8 - "priority", "reserved", "allowed", "restricted", "forbidden" fields should have

**anv-sjofart-MSPshp**  
Dataset contains 5 features, 5 have passed validation.  
**No errors encountered, dataset is valid.**

**anv-yrkesfiske-MSP:shp**  
Dataset contains 3 features, 3 have passed validation.  
**No errors encountered, dataset is valid.**

**hansyn-kulturmiljo-MSPshp**  
Dataset contains 17 features, 17 have passed validation.  
**No errors encountered, dataset is valid.**

**MSP-areas.shp**  
**6 dataset errors encountered. Please fix errors and start validation again.**  
Violation of rule 5. Attribute "priority" is required and not present in the dataset.  
Violation of rule 5. Attribute "reserved" is required and not present in the dataset.  
Violation of rule 5. Attribute "allowed" is required and not present in the dataset.  
Violation of rule 5. Attribute "restricted" is required and not present in the dataset.  
Violation of rule 5. Attribute "forbidden" is required and not present in the dataset.  
Violation of rule 5. Attribute "useDisc" is required and not present in the dataset.

**omraden-MSP:shp**  
**1 dataset errors encountered. Please fix errors and start validation again.**  
Violation of rule 5. Attribute "useDisc" is required and not present in the dataset.

**New Validation**

After a few moments, the validation process ends and a detail report is displayed. If the ZIP file contains several shapefiles, the report shows which ones passed validation and which ones failed.

The user must then correct the errors in the file and start the validation again.

If the shapefile does not contain any errors then it is ready to be displayed in BASEMAPS.

Users can click on New Validation to validate and upload another dataset

# MSP output—validating and uploading WFS

**BASEMAPS**  
Distributed MSP data in the Baltic Sea

Pen Baltic Scope | Interreg Baltic Sea Region

Users | **MSP output** | MSP input

### Validate MSP output data (under construction)

Only valid MSP output data can be uploaded to Basemaps. Validator accepts MSP output data, which are stored as ZIP archived ESRI Shapefile(s) or published as OGC WFS (WFS validator is under development and not available yet). Multiple Shapefiles in ZIP archive or multiple Feature Types in WFS are allowed.

**Note:** All Shapefiles within ZIP archive or all Feature Types within the WFS service must be valid in order to upload data to Basemaps.

I will validate archive with Shapefile(s)

**1**  I will validate WFS service

*Beta version*

**2** Input valid WFS url (without parameters). Examples:  
`http://www.myserver.com/arcgis/services/download/service`  
`https://www.myserver.com/service`

**Validate WFS**

MSP output data in WFS are validated according to following rules:

**Service validation**

- 1 - Data should be in valid WFS.
- 2 - WFS feature types should be valid.

**Dataset validation (checked if above rules are met)**

- 3 - Spatial reference should be defined.
- 4 - Dataset should be with polygon geometry.
- 5 - "priority", "reserved", "allowed", "restricted", "forbidden", "useDisc", "PlanID" fields should be present in the dataset.

**Feature validation (checked if above rules are met)**

- 6 - Empty geometries should not be included.
- 7 - At least 1 of 5 fields ("priority", "reserved", "allowed", "restricted", "forbidden")

To upload data via WFS services users add the URL and click on Validate WFS.



**BASEMAPS**  
Distributed MSP data in the Baltic Sea

Pen Baltic Scope | Baltic LINES | Interreg Baltic Sea Region

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### Validate MSP output data (under construction)

Only valid MSP output data can be uploaded to Basemaps. Validator accepts MSP output data, which are stored as ZIP archived ESRI Shapefile(s) or published as OGC WFS (WFS validator is under development and not available yet). Multiple Shapefiles in ZIP archive or multiple Feature Types in WFS are allowed.

**Note:** All Shapefiles within ZIP archive or all Feature Types within the WFS service must be valid in order to upload data to Basemaps.

I will validate archive with Shapefile(s)  
 I will validate WFS service

**Beta version**

Input valid WFS url (without parameters). Examples:  
<http://www.myserver.com/arcgis/services/download/service>  
<https://www.myserver.com/service>

**Validate WFS**

MSP output data in WFS are validated according to following rules:

**Service validation**

- 1 - Data should be in valid WFS.
- 2 - WFS feature types should be valid.

**Dataset validation (checked if above rules are met)**

- 3 - Spatial reference should be defined.
- 4 - Dataset should be with polygon geometry.
- 5 - "priority", "reserved", "allowed", "restricted", "forbidden", "useDisc", "PlanID" fields should be present in the dataset.

**Feature validation (checked if above rules are met)**

- 6 - Empty geometries should not be included.
- 7 - At least 1 of 5 fields ("priority", "reserved", "allowed", "restricted", "forbidden")

### Validation

Wfs:[http://proxysgds.viss.gov.lv/arcgis/services/Predefined/LVMSP\\_01\\_02\\_WFS/MapServer](http://proxysgds.viss.gov.lv/arcgis/services/Predefined/LVMSP_01_02_WFS/MapServer)  
url: request=GetCapabilities&service=wfs

#### Validation report:

**Conditions\_for\_sea\_use\_from\_general\_legislation**  
Dataset contains 129 features, 129 have passed validation.  
**No errors encountered, dataset is valid.**

**Maritime\_Spatial\_Plan\_priorities**  
Dataset contains 94 features, 94 have passed validation.  
**No errors encountered, dataset is valid.**

Your data is ready to upload to Basemaps database and after uploading will be available for public usage.

**Upload**

**New Validation**

After a few moments, the validation process ends and a detail report is displayed. If the service contains several layers, the report shows which ones passed validation and which ones failed.

The user must then correct the errors in the datasets and start the validation again.

If the WFS service does not contain any errors then it is ready to be displayed in BASEMAPS by clicking on Upload.

Users can click on New Validation to validate and upload another dataset.

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# Frequently Asked Questions

## *Why are there empty categories?*

*Some categories are empty because no country has provided data.*

## *Why is the layer not showing?*

*Check that you have ticked the WMS or ArcGIS REST services checkbox  as they are the only services that are displayed. Also, be sure that the layer does not have any maximum or minimum display scale (check Max and Min display scale in metadata). If so, zoom in or out accordingly with the help of the scale at the bottom-right map corner.*

## *Some tags are weirdly translated, why?*

*BASEMAPS uses a translator service that can occasionally output a not so accurate translation.*

## *Why is the layer name not in English?*

*All services in BASEMAPS come from national data providers who may want to publish data in their language. BASEMAPS only translates some tags in the metadata (see page 12)*

## *Why don't I see in the map the changes I made in the admin panel?*

*To see the changes you will need to refresh the browser by using the browser's refresh button.*

## *What kind of services are available in BASEMAPS?*

*BASEMAPS can display WMS and ArcGIS REST services. Datasets can be downloaded thorough WFS and download services.*

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# Contact information and credits

For support about BASEMAPS  
functionality and getting users rights:  
[data@helcom.fi](mailto:data@helcom.fi)

For support about national data  
contact the national provider whose  
contact information can be found in  
the host organization tag in the  
metadata.

BASEMAPS has been developed by  
HELCOM during the Interreg funded  
Baltic LINes project (2016-2019).

The MSP output part was developed  
during the PanBalticScope project.

The code is open source and is  
available in [GitHub](#).