

WISE

spatial data

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2021-06-08

https://cdr.eionet.europa.eu/help/WFD/WFD_780_2022/GISGuidance/Webinar_SpatialData_2021-06-08.pdf

European Environment Agency



Agenda

1. Overview of the **products** using the WISE spatial data dets
2. Structure of the WISE spatial data **model**
3. Overview of the **reporting process**
4. Consolidation between historic **WISE-5** data & **WFD** spatial data
5. Questions & Answers.

WISE **spatial** **data products** and where to find them

WISE Spatial Data Products

1

- The information report to WISE is used to create **European data sets**.
- Different products are available:
 - Downloadable data sets.
 - Online map services.
 - Derived products, such as map viewers and dashboards.
- The **National data sets** can be accessed in CDR or in a restricted area.
 - Only authorised users have access to national data sets.
 - National data sets may include confidential data (e.g. some monitoring sites).

Water Framework Directive data sets in the EEA site

1.1

European Environment Agency

Topics Countries Data and maps Indicators Publications Media About us

EN Search

Data and maps > Datasets > WISE WFD reference spatial ...

DATA

WISE WFD reference spatial data sets

The Water Framework Directive (WFD) reference spatial data sets include information about European river basin districts, river basin district sub-units, surface water bodies, groundwater bodies and monitoring sites used in the first and second River Basin Management Plans (RBMP). The data sets are part of the Water Information System for Europe (WISE), and compile information reported by the EU Member States, Norway, Iceland and the United Kingdom to the European Commission (EC) and the European Environment Agency (EEA) since 2010.

Prod-ID: DAT-30-en Created 17 Apr 2020 — Published 20 Apr 2020 — Last modified 20 Apr 2020 — 2 min read

Data and maps

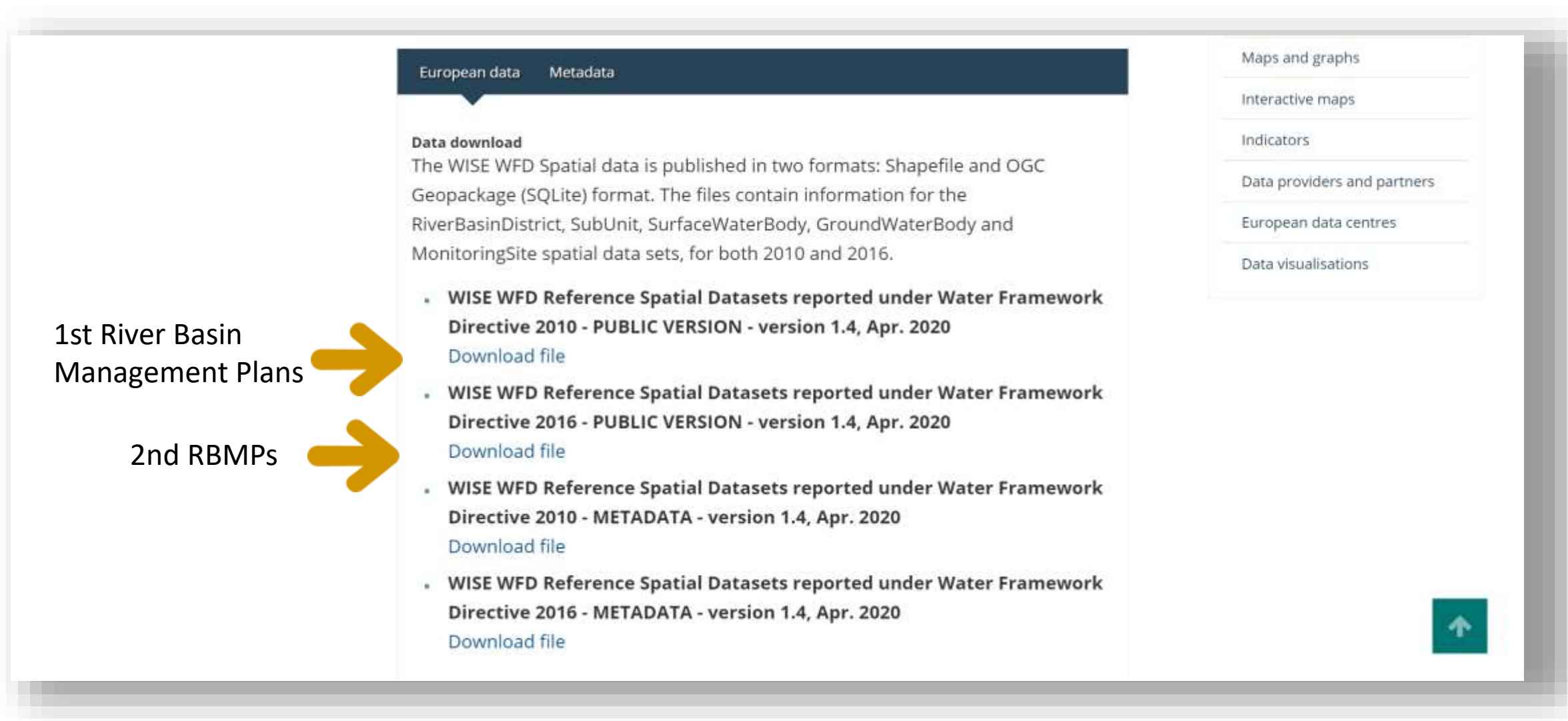
- Global search
- Dashboards
- Datasets
- Interactive data viewers
- External datasets catalogue
- WISE WFD reference spatial data sets**

Scroll down...



Water Framework Directive data sets in the EEA site

1.1



The screenshot displays the 'European data' tab on the EEA website. It features a 'Data download' section with a descriptive paragraph and a list of four downloadable datasets. To the left of the list, two yellow arrows point from the text '1st River Basin Management Plans' and '2nd RBMPs' to the first two items in the list. A sidebar on the right contains links to 'Maps and graphs', 'Interactive maps', 'Indicators', 'Data providers and partners', 'European data centres', and 'Data visualisations'. A green 'back to top' button is located in the bottom right corner of the main content area.

European data Metadata

Data download
The WISE WFD Spatial data is published in two formats: Shapefile and OGC Geopackage (SQLite) format. The files contain information for the RiverBasinDistrict, SubUnit, SurfaceWaterBody, GroundWaterBody and MonitoringSite spatial data sets, for both 2010 and 2016.

- **WISE WFD Reference Spatial Datasets reported under Water Framework Directive 2010 - PUBLIC VERSION - version 1.4, Apr. 2020**
[Download file](#)
- **WISE WFD Reference Spatial Datasets reported under Water Framework Directive 2016 - PUBLIC VERSION - version 1.4, Apr. 2020**
[Download file](#)
- **WISE WFD Reference Spatial Datasets reported under Water Framework Directive 2010 - METADATA - version 1.4, Apr. 2020**
[Download file](#)
- **WISE WFD Reference Spatial Datasets reported under Water Framework Directive 2016 - METADATA - version 1.4, Apr. 2020**
[Download file](#)

1st River Basin Management Plans →

2nd RBMPs →

Maps and graphs

Interactive maps

Indicators

Data providers and partners

European data centres

Data visualisations

- The European data sets are published in two different formats:
 - Shapefiles
 - OCG Geopackage (SQLite)
- Only the public content is available for download.
 - For example, the location of confidential monitoring sites is not published.
 - The access constraints set by the Data Providers are published with the data set.
- The current frequency of publication is annual (if updated data exists).

“Updating” older data to create the European data sets

1.1

The 1st RBMP data sets were improved using the 2016 data.

For example, in 2010, most Member States did not report the geometry of all water bodies (red dots in the images below). Most of that missing information could be extracted from data reported in 2016.



1st RBMP - Original data reported in 2010

1st RBMP - After the consolidation with 2016 data

The images show the **surface water bodies** of the 1st River Basin Management Plans. In the upper images, the missing data is represented by **red dots**. The lower images show the surface water bodies with known geometry. The left-hand side images show the available data before the 2016 reporting. The right-hand side images show the data, after it was combined with information reported in 2016 for the 2nd RBMPs.



Ireland, Greece and Lithuania have not yet reported the 2nd RBMPs; a new version will be prepared after these Member States report.

[status in October 2017]

Note:
A similar process
will be applied
to the 3rd RBMPs

Key messages

1.1

- All the data is published.
 - Except monitoring sites marked as confidential.
 - Except justified cases where Data Providers explicitly request it, and state it in the metadata that accompanies each national dataset (e.g. drinking water).
 - **It is important to provide accurate metadata when reporting the national data sets.** 
- The newer data is used to replace older data
 - (if the object itself has not changed, and only the geometry or some attributes were updated).
 - The data from the 2nd RBMPs was used to improve the data from the 1st RBMPs
 - The same process will be applied using the 3rd RBMPs where applicable.
 - **It is important to provide accurate life-cycle information, e.g. about changes in the identifiers.** 

This is be illustrated later on.

European data sets as online map services

1.2

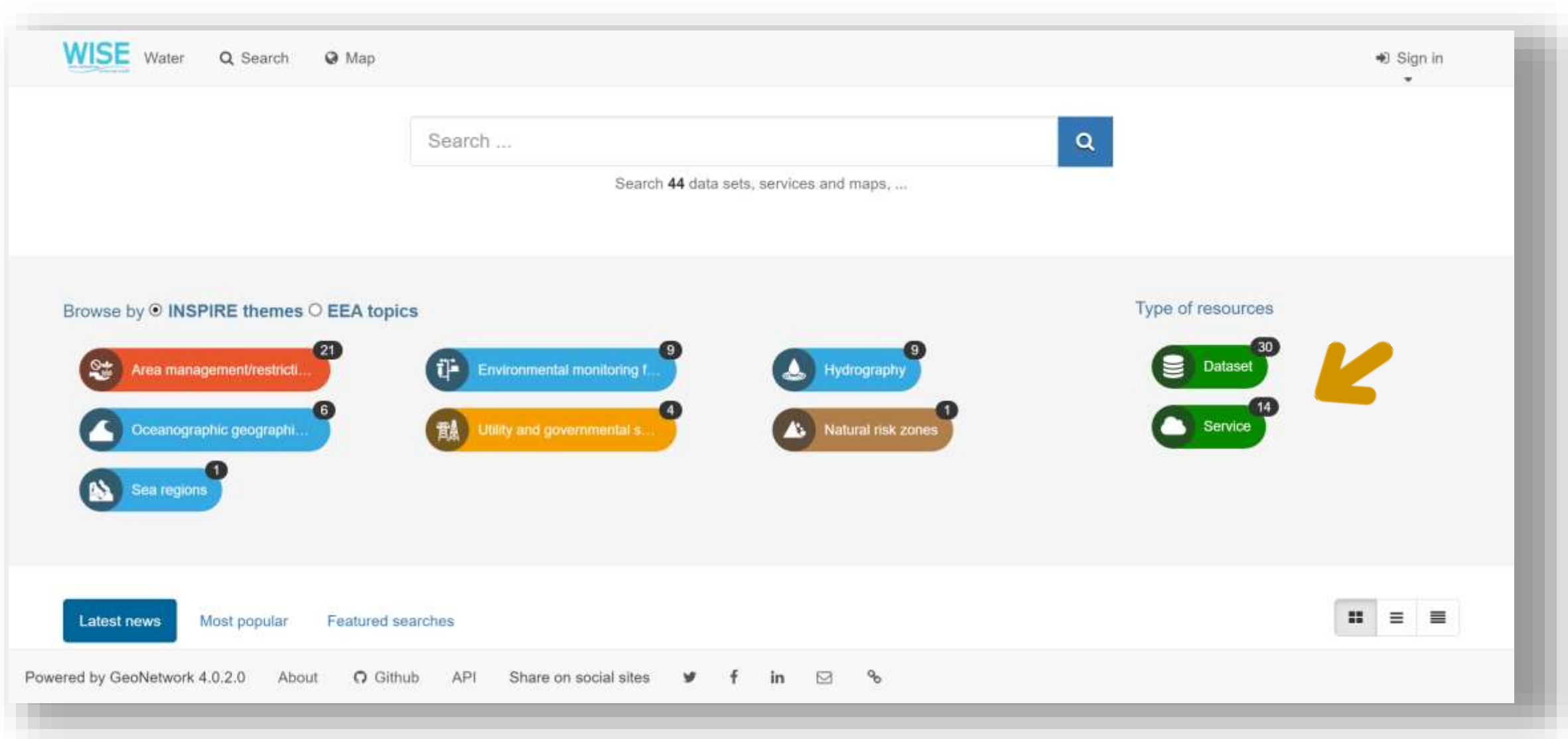
Besides downloadable data, it is also possible to access online services

- The online map services may have additional layers combining the spatial data with “descriptive” data about ecological status, chemical status, etc..
- The services can be viewed directly in a browser, or used in any standard GIS software that supports OGC services.

There are several ways to access the services.

Access to online services using the metadata catalog

1.2



<https://sdi.eea.europa.eu/catalogue/water/eng/catalog.search#/home>

Metadata catalog

1.2

The screenshot displays the WISE Water Metadata Catalog interface. At the top, the header includes the WISE logo, 'Water' text, a search bar, a map icon, and a 'Sign in' button. Below the header, a search bar with the placeholder 'Search ...' is visible. The main content area shows 14 results, sorted by popularity. The results are categorized by 'Type of resources' (Service) and 'INSPIRE themes' (Area management/restriction/regulation, Environmental monitoring facilities). The results are organized into three columns, each representing a different WFD resource type: surface water bodies, river basin districts, and groundwater bodies. Each result card includes a map thumbnail, a description, and the provider 'European Environment Agency'. A 'MAP' button is located in the bottom right corner of the results area. The footer contains information about the GeoNetwork version (4.0.2.0) and links to 'About', 'Github', 'API', and 'Share on social sites'.

WISE Water Search Map Sign in

Search ...

Active filters

Type of resources Service

Filter

Type of resources Service (14)

INSPIRE themes

- Area management/restriction/regulation (11)
- Environmental monitoring facilities (3)

Organizations

Temporal extent

14 results Sorted by popularity

WISE WFD surface water bodies reported under Water Framework Directive 2016 - ...

The service contains information on the European surface water bodies delineated for the 2nd River Basin Management Plans...

European Environment Agency

WISE WFD river basin districts and sub-units reported under Water Framework...

The web service contains information on the European river basin districts and sub-units delineated for the 1st River Basin ...

European Environment Agency

WISE WFD groundwater bodies reported under Water Framework Directive 2016 - Web...

The service contains information on the European groundwater bodies delineated for the 2nd River Basin Management Plans...

European Environment Agency

MAP





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<https://sdi.eea.europa.eu/catalogue/water/eng/catalog.search#/home>

Metadata fiche

Scroll down...





 EEA geospatial data catalogue  Search  Map  Sign in

 Back to search

< Previous

Next >

 Download

 Display mode

 WISE WFD monitoring sites reported under Water Framework Directive 2016 - **Web Service**

The service contains information on the European monitoring sites used for the assessment of the status of surface water bodies and groundwater bodies in the 2nd River Basin Management Plans (RBMP).

The information was reported to the European Commission under the Water Framework Directive (WFD) reporting obligations.

The dataset compiles the available spatial data related to the 2nd RBMPs due in 2016 (hereafter WFD2016). See <http://rod.eionet.europa.eu/obligations/715> for further information on the WFD2016 reporting.

Relevant concepts:

Monitoring site: [Operational definition. Not in the WFD] Monitoring point included in a WFD surveillance, operational or investigative monitoring programme.

Surface water body: Body of surface water means a discrete and significant element of surface water such as a lake, a reservoir, a stream, river or canal, part of a stream, river or canal, a transitional water or a stretch of coastal water.

Surface water: Inland waters, except groundwater; transitional waters and coastal waters, except in respect of chemical status for which it shall also include territorial waters.

Overview





Spatial extent

Powered by GeoNetwork 4.0.2.0 [About](#)  Github [API](#)


Links to map services

Groundwater body: body of groundwater means a distinct volume of groundwater within an aquifer or aquifers.
Groundwater: All water which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.


Download and links

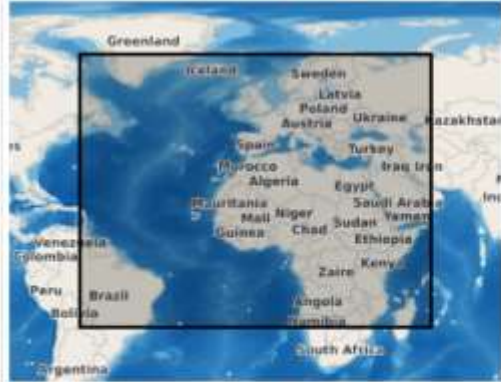
 WMS	0 MonitoringSite This dataset is published in the view service (WMS) available at https://water.discomap.eea.europa.eu/arcgis/services/WISE_WFD/WFD2016_MonitoringSite_WM/MapServer/WMS/Server?request=GetCapabilities&service=WMS with layer name 0.	Add to map
 ESRI:REST	ESRI REST service https://water.discomap.eea.europa.eu/arcgis/rest/services/WISE_WFD/WFD2016_MonitoringSite_WM/MapServer .	Add to map

View online...





Associated resources

	WISE WFD Reference Spatial Datasets reported under Water Framework Directive 2016 - INTERNAL VERSION - version 1.4, Apr. 2020	Related dataset
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Resource events


 **Publication**
15-04-2019

 **Temporal extent**

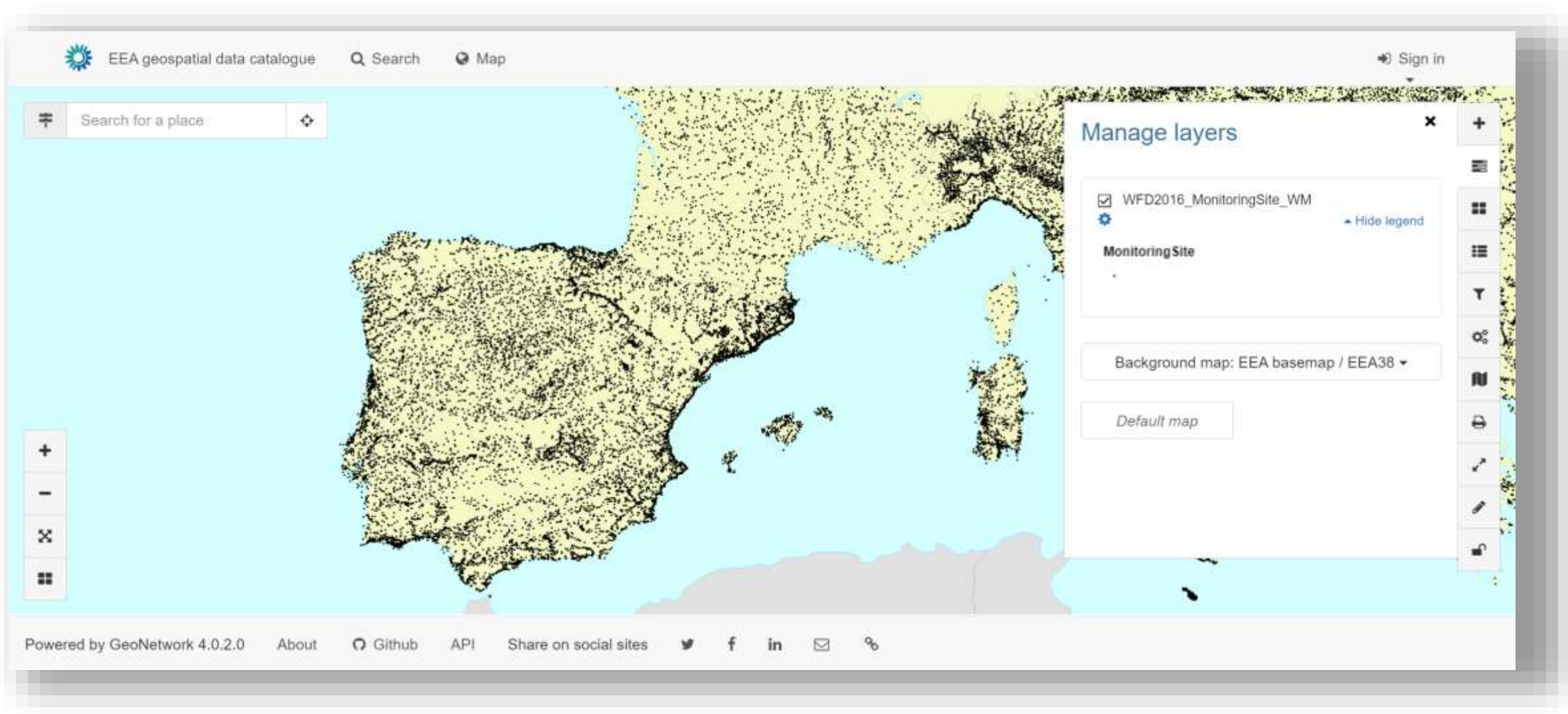
05-05-2016 31-03-2019

 **Provided by**



Powered by GeoNetwork 4.0.2.0 About  Github API

Example with the monitoring sites service



Direct access to the online map services

1.2

For GIS users, a faster way is to go directly to the web map server, and use the service directly in the GIS software...



The screenshot displays the ArcGIS REST Services Directory for the WISE_WFD folder. The page has a light blue header with navigation links: 'Home > services > WISE_WFD', 'Login | Get Token', and 'Help | API Reference'. Below the header, there are links for 'JSON | SOAP'. The main content area shows the folder name 'Folder: WISE_WFD' and the 'Current Version: 10.81'. A link 'View Footprints In: ArcGIS Online Map Viewer' is provided. Under the 'Services:' section, a list of 12 MapServer services is shown, including GroundWaterBody_WM, MonitoringSite_WM, RiverBasinDistrict_WM, and SurfaceWaterBody_WM for both 2010 and 2016 data. At the bottom, 'Supported Interfaces' are listed: REST, SOAP, Sitemap, and Geo Sitemap.

ArcGIS REST Services Directory [Login](#) | [Get Token](#)

[Home](#) > [services](#) > [WISE_WFD](#) [Help](#) | [API Reference](#)

[JSON](#) | [SOAP](#)

Folder: WISE_WFD

Current Version: 10.81

View Footprints In: [ArcGIS Online Map Viewer](#)

Services:

- [WISE_WFD/WFD2010_GroundWaterBody_WM](#) (MapServer)
- [WISE_WFD/WFD2010_MonitoringSite_WM](#) (MapServer)
- [WISE_WFD/WFD2010_RiverBasinDistrict_WM](#) (MapServer)
- [WISE_WFD/WFD2010_SurfaceWaterBody_WM](#) (MapServer)
- [WISE_WFD/WFD2016_GroundWaterBody_WM](#) (MapServer)
- [WISE_WFD/WFD2016_GroundWaterBodyHorizon_WM](#) (MapServer)
- [WISE_WFD/WFD2016_MonitoringSite_WM](#) (MapServer)
- [WISE_WFD/WFD2016_ProtectedArea_WM](#) (MapServer)
- [WISE_WFD/WFD2016_QualityElements_WM](#) (MapServer)
- [WISE_WFD/WFD2016_RiverBasinDistrict_WM](#) (MapServer)
- [WISE_WFD/WFD2016_SurfaceWaterBody_WM](#) (MapServer)

Supported Interfaces: [REST](#) [SOAP](#) [Sitemap](#) [Geo Sitemap](#)

https://water.discomap.eea.europa.eu/arcgis/rest/services/WISE_WFD

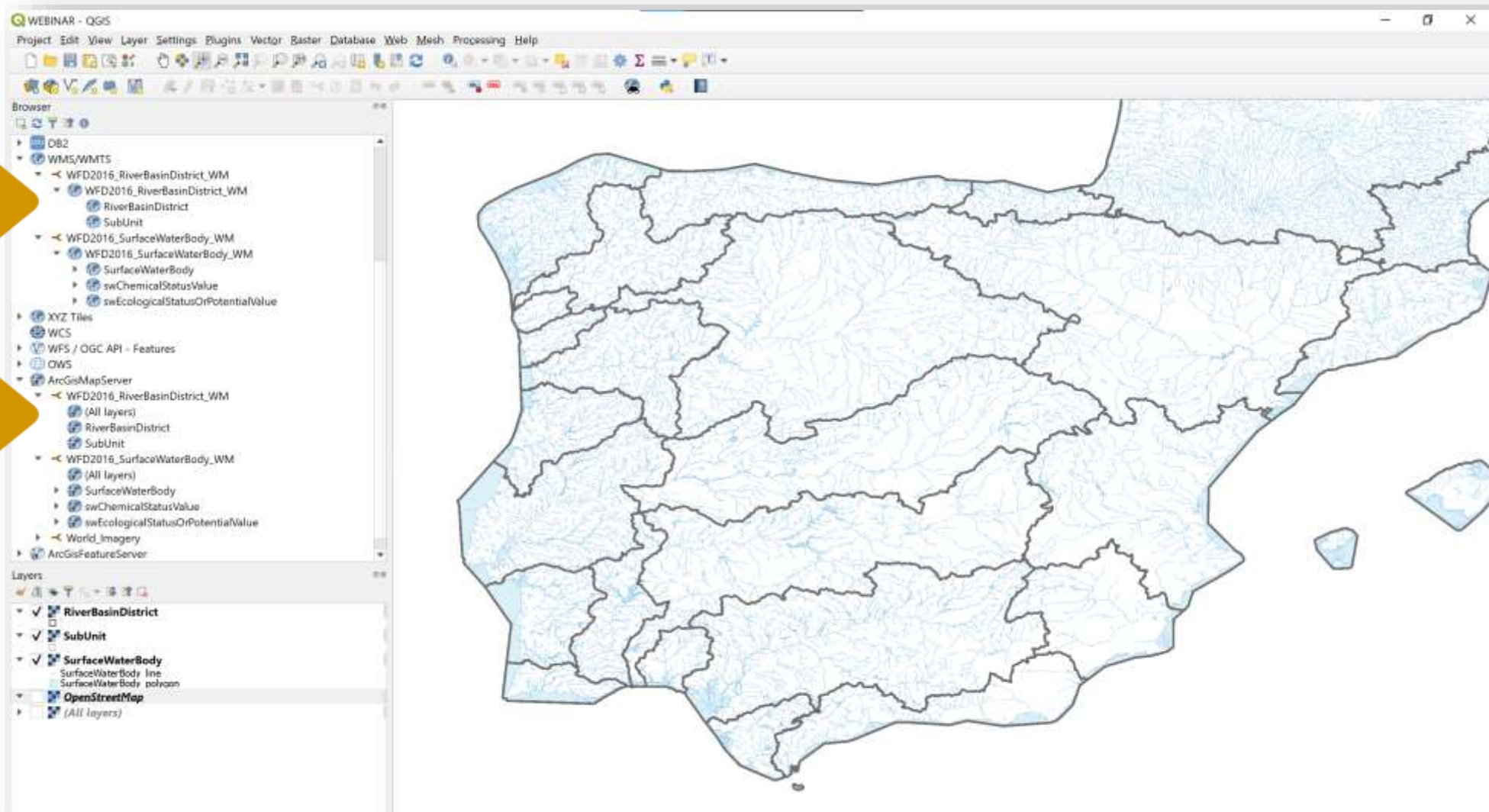
Example in QGIS

1.2

WMS



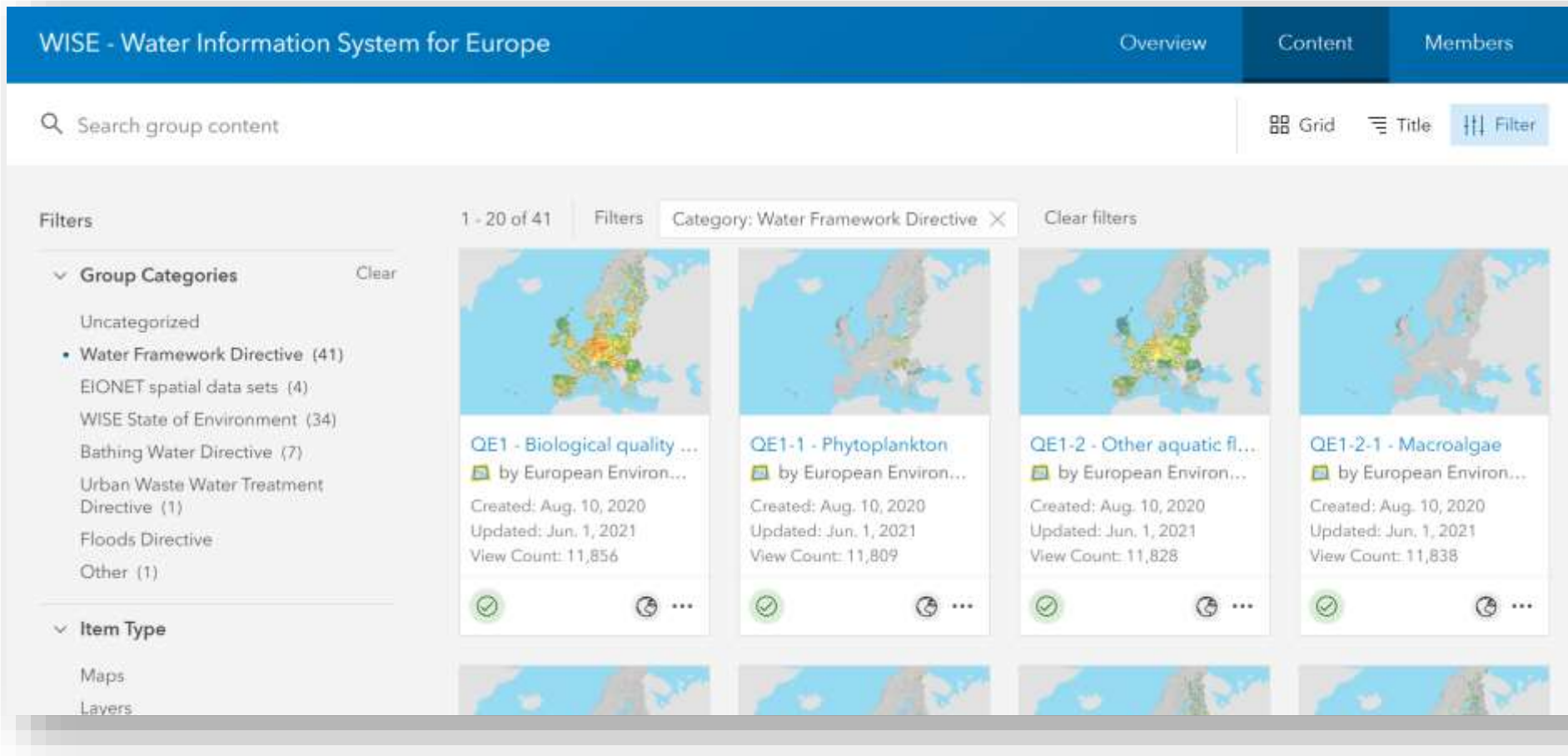
ArcGIS
server



Portal: online map services, map viewers,...

1.2

The easiest way to access the WISE group in the EEA Portal



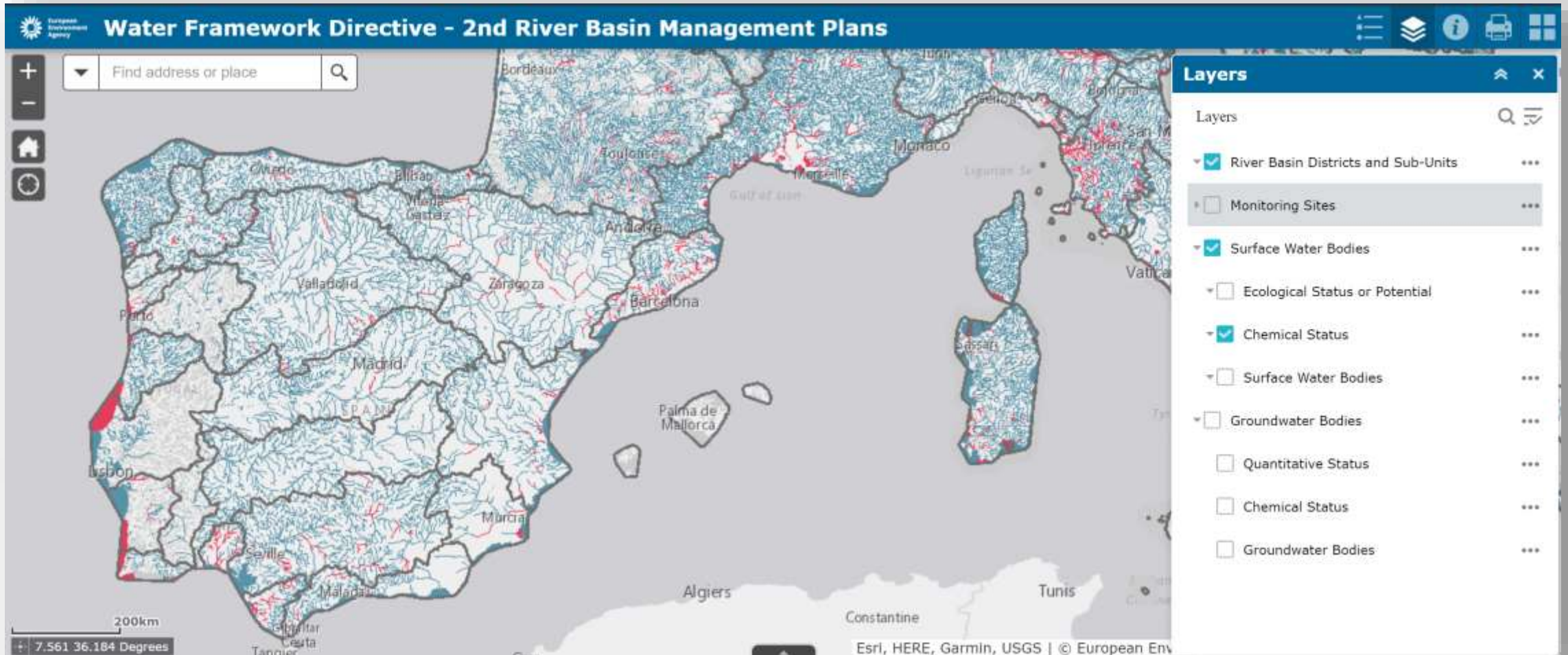
<https://eea.maps.arcgis.com/home/group.html?id=08a2498d8fbe4508878310fe91b7cb4d#overview>

<https://portal.discomap.eea.europa.eu/arcgis/home/group.html?id=52fa75e2bbe64d76a32f44d5a9db52d5#overview>

WFD 2nd River Basin Management Plans

1.2

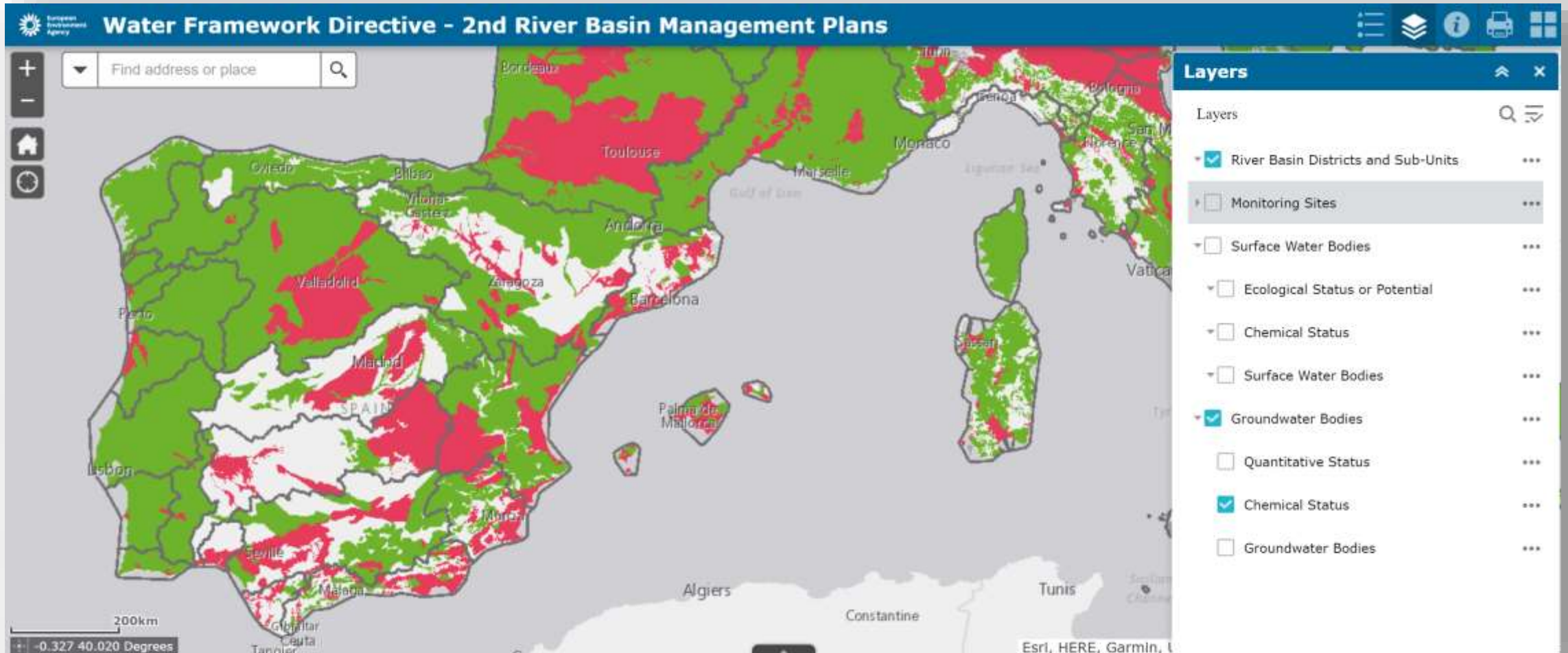
Example: Chemical status of surface water bodies



WFD 2nd River Basin Management Plans

1.2

Example: Chemical status of groundwater bodies



Example: Detailed information at Quality Element level



<https://maps.eea.europa.eu/wab/WaterFrameworkDirectiveQualityElements/>

Other data sets that may be useful...

1.2

- **Protected Areas under WFD** are the drinking water protected areas, designated waters such as fish protected areas and shellfish protected areas, nitrates vulnerable zones, urban waste water sensitive areas and bathing water protected areas.
- Only the drinking water protected areas and the designated waters are reported in the WFD data flows.
- The others have specific data flows, and must not be reported again.

WISE WFD protected areas spatial data sets


DATA

WISE WFD protected area spatial data sets

The Water Framework Directive (WFD) protected area data sets include information about European drinking water protected areas, designated waters such as fish protected areas and shellfish protected areas, nitrates vulnerable zones, urban waste water sensitive areas and bathing water protected areas. The protected areas are part of the Water Framework Directive register of protected areas and were reported in second River Basin Management Plans (RBMP) or under other related reporting obligations. The data sets are part of the Water Information System for Europe (WISE), and compile information reported by the EU Member States, Iceland, Norway and Switzerland to the European Commission (EC) and the European Environment Agency (EEA).

Prod-ID: DAT-221-enCreated 08 Dec 2020 — Published 08 Dec 2020 — Last modified 14 Dec 2020 — 2 min read

Scroll down...



Data and maps

- Global search
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- Interactive data viewers
- External datasets catalogue
- WISE WFD protected area spatial data sets**
- Data download
- Maps and graphs

WISE WFD protected areas spatial data sets

European data Metadata

Data download

The WISE WFD protected area data is published in two formats: Shapefile and OGC Geopackage (SQLite) format. The files contain information about drinking water protected areas, designated waters such as fish protected areas and shellfish protected areas, nitrates vulnerable zones, urban waste water sensitive areas and bathing water protected areas.

- **WISE WFD Protected Area under the Water Framework Directive 2016 - PUBLIC VERSION - version 2.0, Dec. 2020**
[Download file](#)
- **WISE WFD Protected Area under the Water Framework Directive 2016 - METADATA - version 2.0, Dec. 2020**
[Download file](#)

Maps and graphs

Interactive maps

Indicators

Data providers and partners


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Data visualisations

[Link to the metadata catalog](#) ➔

↑

WISE WFD protected areas metadata

 EEA geospatial data catalogue

Search

Map

Sign in

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Download

Display mode

WISE WFD Protected Areas under the Water Framework Directive 2016 - PUBLIC VERSION - version 2.0, Dec. 2020

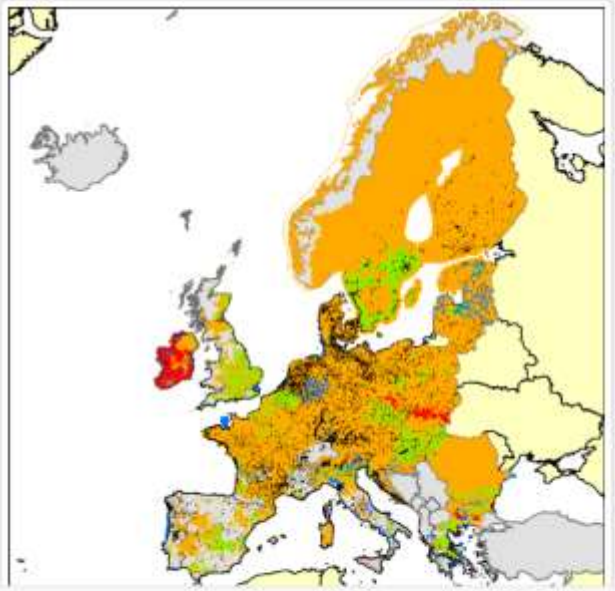
The data set contains the location of areas which have been designated as requiring special protection of their surface water and groundwater, or for the conservation of habitats and species directly depending on water, including economically significant aquatic species (e.g. shellfish).

According to the Article 6 of the Water Framework Directive (WFD, Directive 2000/60/EC), Member States shall ensure the establishment of a register of all areas lying within each River Basin District which have been designated as requiring special protection under specific Community legislation for the protection of their surface water and groundwater, or for the conservation of habitats and species directly depending on water, including the protection of Natura 2000 sites and economically significant aquatic species (e.g. shellfish).

According to Annex IV of the Water Framework Directive, the register shall include the following types of protected areas:

- (i) areas designated for the abstraction of water intended for human consumption under WFD Article 7;
- (ii) areas designated for the protection of economically significant aquatic species;

Overview



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About


Github

API

WISE WFD protected areas web services

FTPS


<https://sdi.eea.europa.eu/webdav/continental/europe/v>

 **WMS**

This dataset is published in the view service (WMS) available at

https://water.discomap.eea.europa.eu/arcgis/services/WISE_WFD/WFD2016_ProtectedArea_WM/MapServer/WMS/Server?request=GetCapabilities&service=WMS with layer name .


Add to map

 **ESRI:REST**

ESRI REST service

https://water.discomap.eea.europa.eu/arcgis/rest/services/WISE_WFD/WFD2016_ProtectedArea_WM/MapServer.

Add to map



Bathing water quality in Europe - Web Services


Bathing water quality in Europe - Web Services

https://water.discomap.eea.europa.eu/arcgis/services/BathingWater/BathingWater_Dyna_WM/MapServer/WMS/Server?request=GetCapabilities&service=WMS


Open link

Updated:


23 days ago

 Similar records


WISE WFD Protected Areas under the Water Framework Directive 2016 - INTERNAL VERSION - version 2.0, Dec. 2020




WISE WFD Protected Areas under the Water Framework Directive 2016 - PUBLIC VERSION - version 1.0, Oct. 2019



WISE WFD Protected Areas under the Water Framework Directive 2016 - INTERNAL VERSION - version 1.0, Oct. 2019

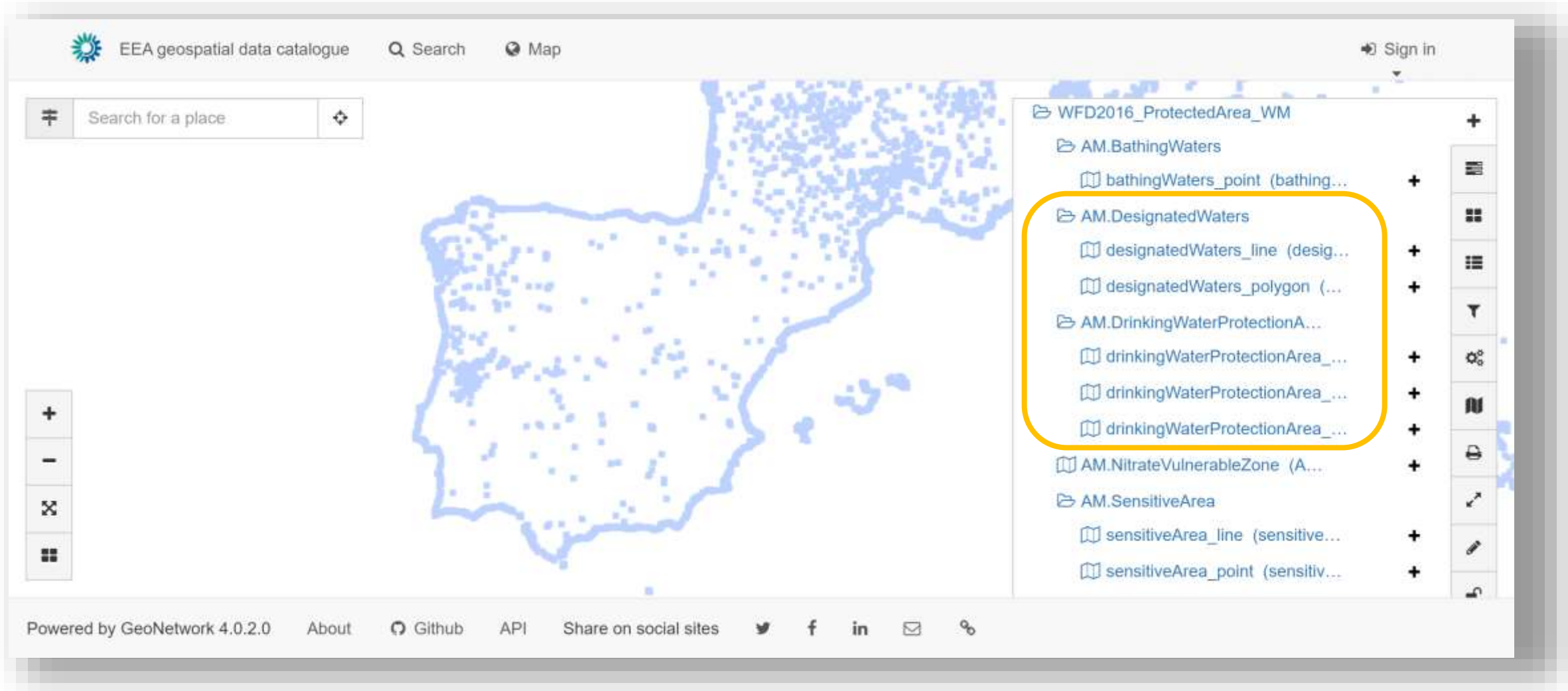


Associated resources

Powered by GeoNetwork 4.0.2.0 About  Github API

<https://sdi.eea.europa.eu/catalogue/srv/eng/catalog.search#/metadata/ec23d640-f405-40d1-8bb0-927ad62f654d>

Example showing bathing waters (that are reported under the BWD data flow)



Other data sets that may be useful...

1.2

- **EIONET** spatial data sets are similar to the WFD spatial reference data sets, **but are used by countries that do not report under WFD** (Switzerland, Turkey, ...)
- The data sets contain EIONET legacy data (reported before 2013) or reported under the WISE-5 data flow.
 - The data sets still contain some data from countries that report under WFD, mainly monitoring sites.
 - Such countries are advised to report all the information under WFD.
 - If strictly necessary (to report time series under the WISE SoE dataflows), waterbodies that are not WFD waterbodies can be reported under WISE-5.

WISE EIONET spatial data sets

DATA

WISE EIONET spatial data sets

The European environment information and observation network (Eionet) spatial data sets include information about European river basin districts, river basin district sub-units, surface water bodies, groundwater bodies and monitoring sites. The data sets are part of the Water Information System for Europe (WISE), and compile information reported to the European Environment Agency (EEA) since 2001. For the EEA Member countries and cooperating countries not reporting under WFD, the EIONET spatial data sets are the most up-to-date information available in WISE. The coverage is complete for Switzerland, and partial for the remaining countries (Liechtenstein, Turkey, Albania, Bosnia and Herzegovina, Montenegro, North Macedonia, Serbia and Kosovo). For the 27 European Union Member States, Iceland, Norway and the United Kingdom, the Water Framework Directive (WFD) reference spatial data sets are the most complete and up-to-date information available in WISE (only the EIONET monitoring sites and EIONET water bodies that could not be mapped to WFD spatial objects are included in the EIONET spatial data set).

Prod-ID: DAT-204-en Created 16 Mar 2021 — Published 23 Mar 2021 — Last modified 23 Mar 2021 — 1 min read



Data and maps

- Global search
- Dashboards
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- Interactive data viewers
- External datasets catalogue
- WISE EIONET spatial data sets**
- Data download
- Maps and graphs
- Interactive maps
- Indicators
- Data providers and partners

Access to the data works as shown for the other datasets

Key messages

1.1

- Only drinking water protected areas and designated areas need to be reported.
 - If the drinking waters data can not be published, remember to restrict access to the file in CDR.
 - Clearly state any restrictions in the metadata that accompanies each national dataset.
 - **It is important to provide accurate metadata when reporting the national data sets.** 
- All monitoring sites can be reported under WFD
 - Countries that report under WFD should not use the WISE-5 data flow to report monitoring sites located in WFD waterbodies.
 - All sites can be reported under WFD (even if not used in a WFD monitoring programme).
 - **Countries that report under WFD may use the WISE-5 data flow, in exceptional cases, to report waterbodies that are not WFD waterbodies and sites located therein, if and only if time series of water quality or water quantity will be reported under the annual WISE SoE data flows.** 

This is be illustrated later on.

Structure of the WISE spatial data model

and overview of changes since 2016

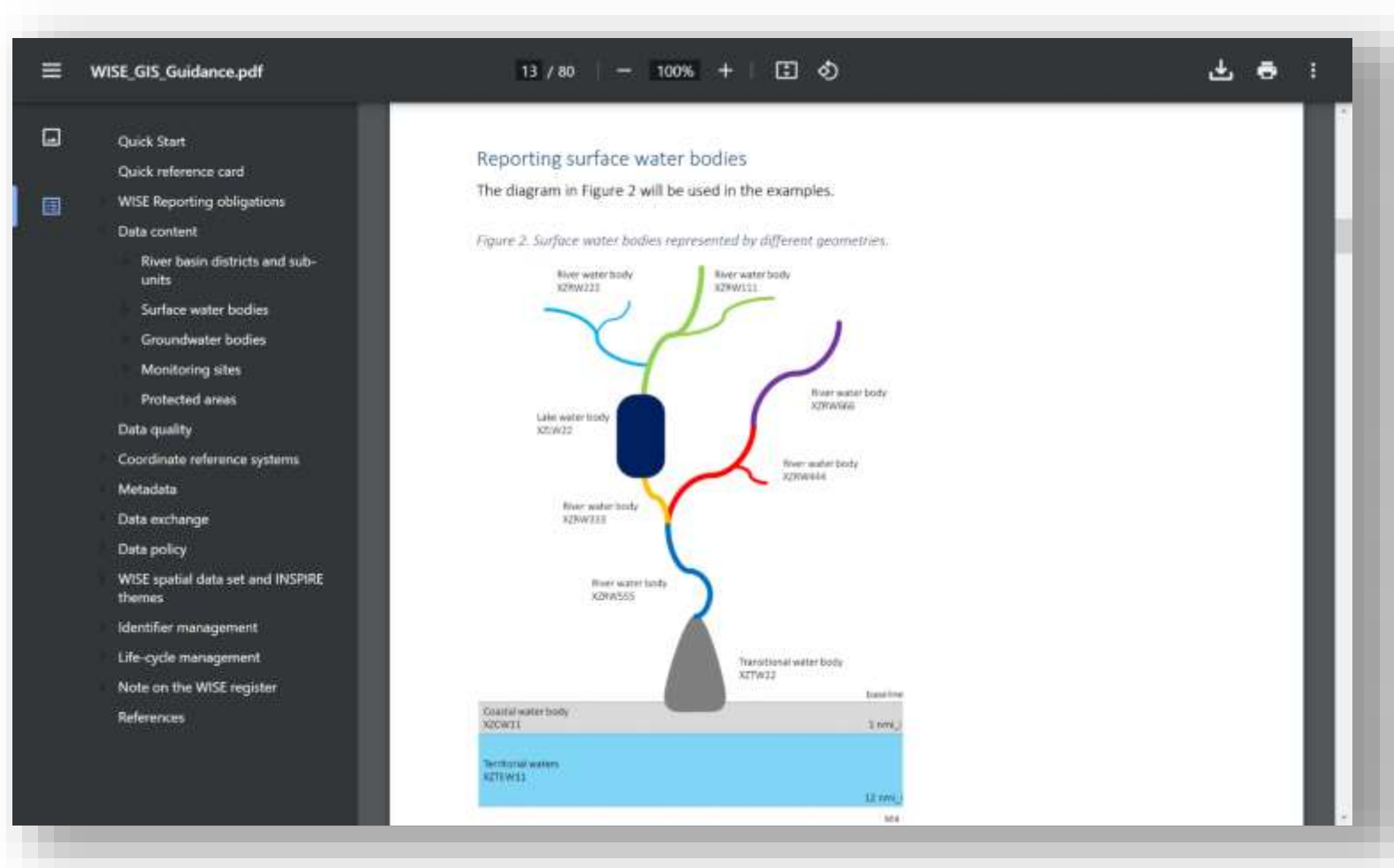
Data model

- The spatial data reported to WISE follows the same model
 - In the [WFD spatial data flow](#) (countries reporting under WFD)
 - In the [WISE-5 spatial data](#) (for other EIONET countries)
 - In the [bathing water data](#) flow.
- The content and frequency of the data flows is variable, but all the data is consolidated and must be reported only once.
 - Information from data flows that don't yet use the WISE spatial data model (e.g. Nitrates, UWWTD) also does not need to be reported again.

Data model



2

- The model is fully described in the [WISE GIS Guidance](https://cdr.eionet.europa.eu/help/WFD/WFD_780_2022/GISGuidance/WISE_GIS_Guidance.pdf).

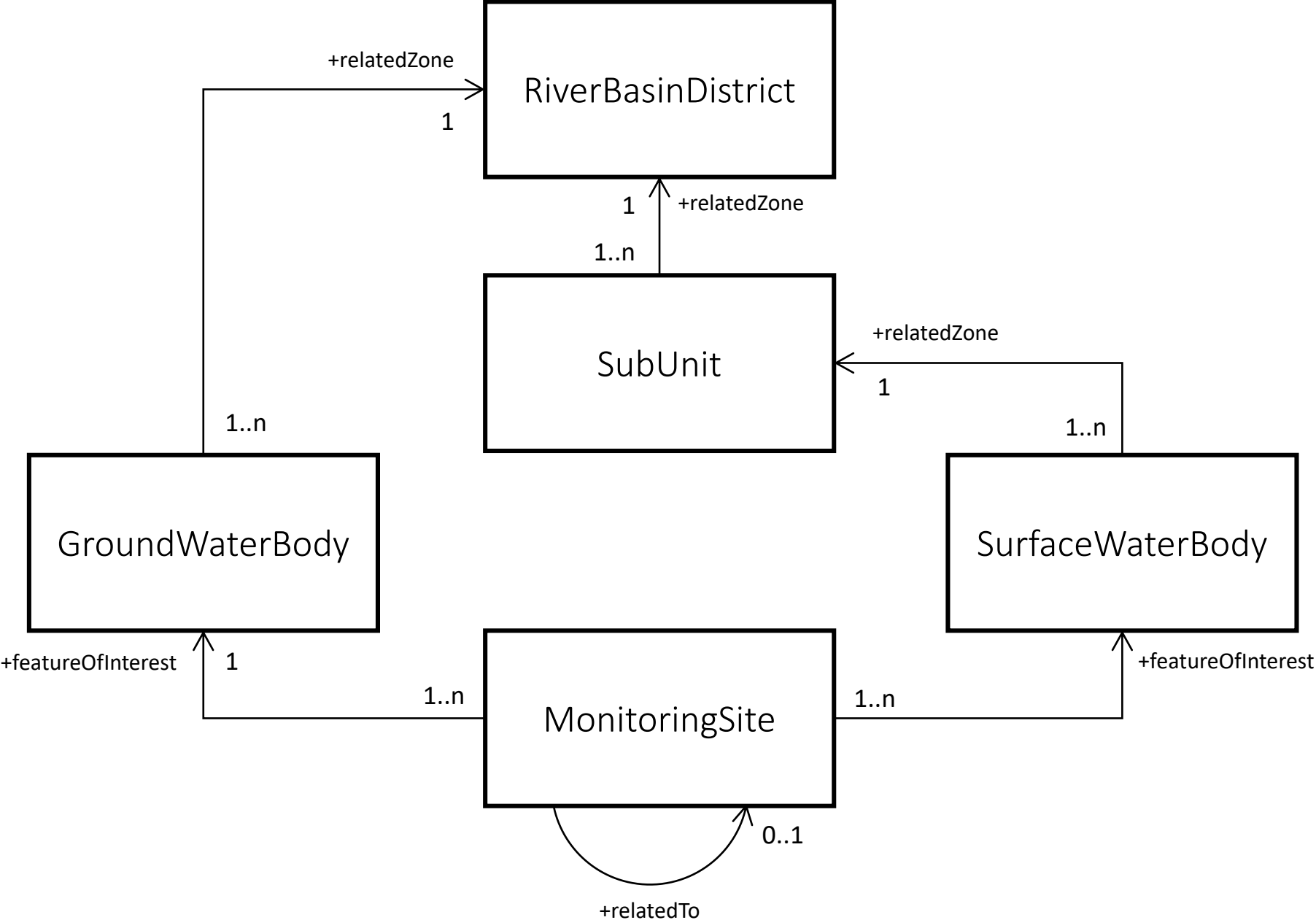


WISE spatial data model

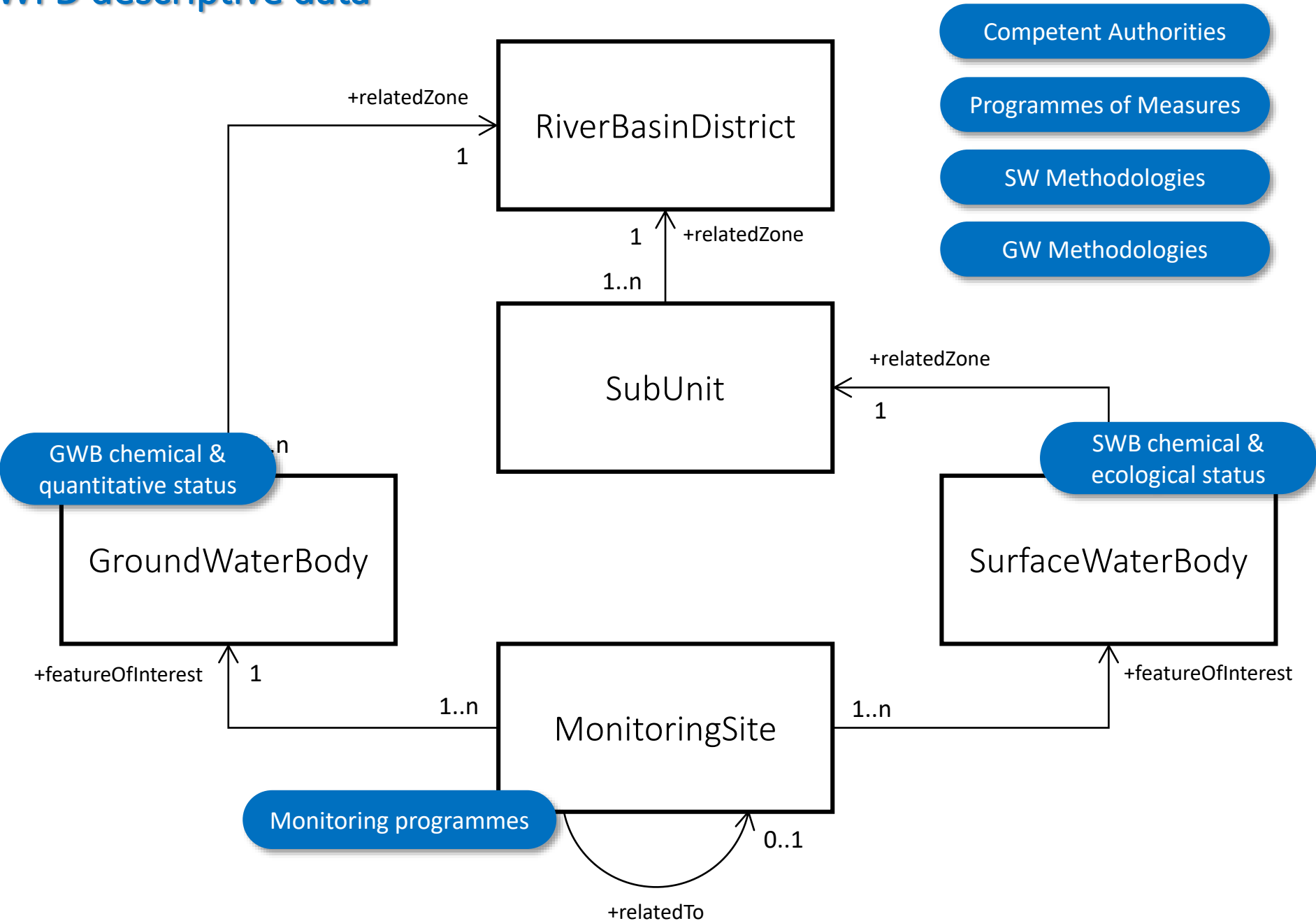
2

- The reference spatial datasets are:
 - RiverBasinDistrict
 - SubUnit
 - SurfaceWaterBody
 - GroundWaterBody
 - MonitoringSite
- These data sets are **required** in the WFD reporting. 
- For countries that do not report under WFD, these data sets are mandatory in the WISE-5 reporting. 

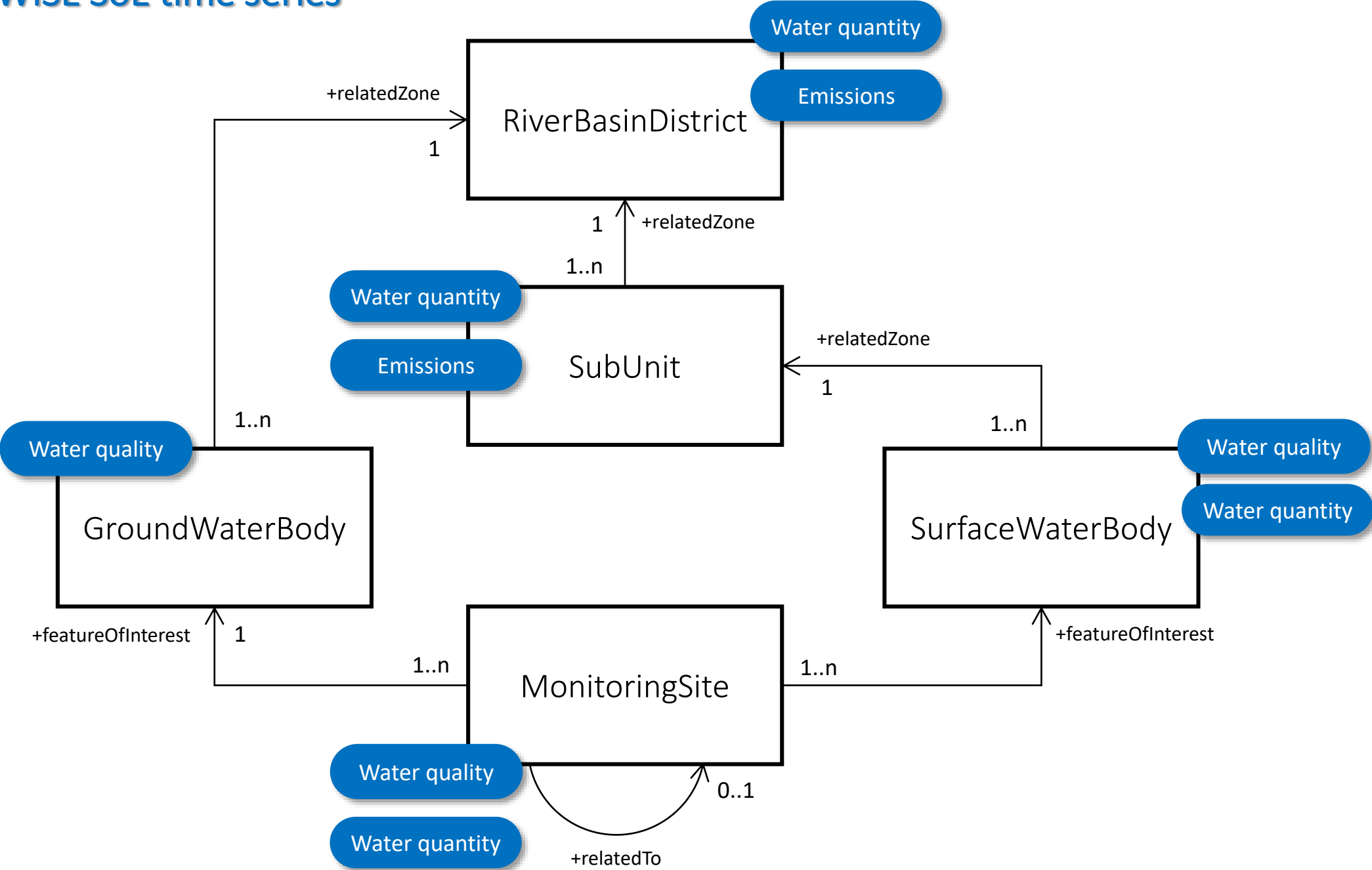
relation between data sets



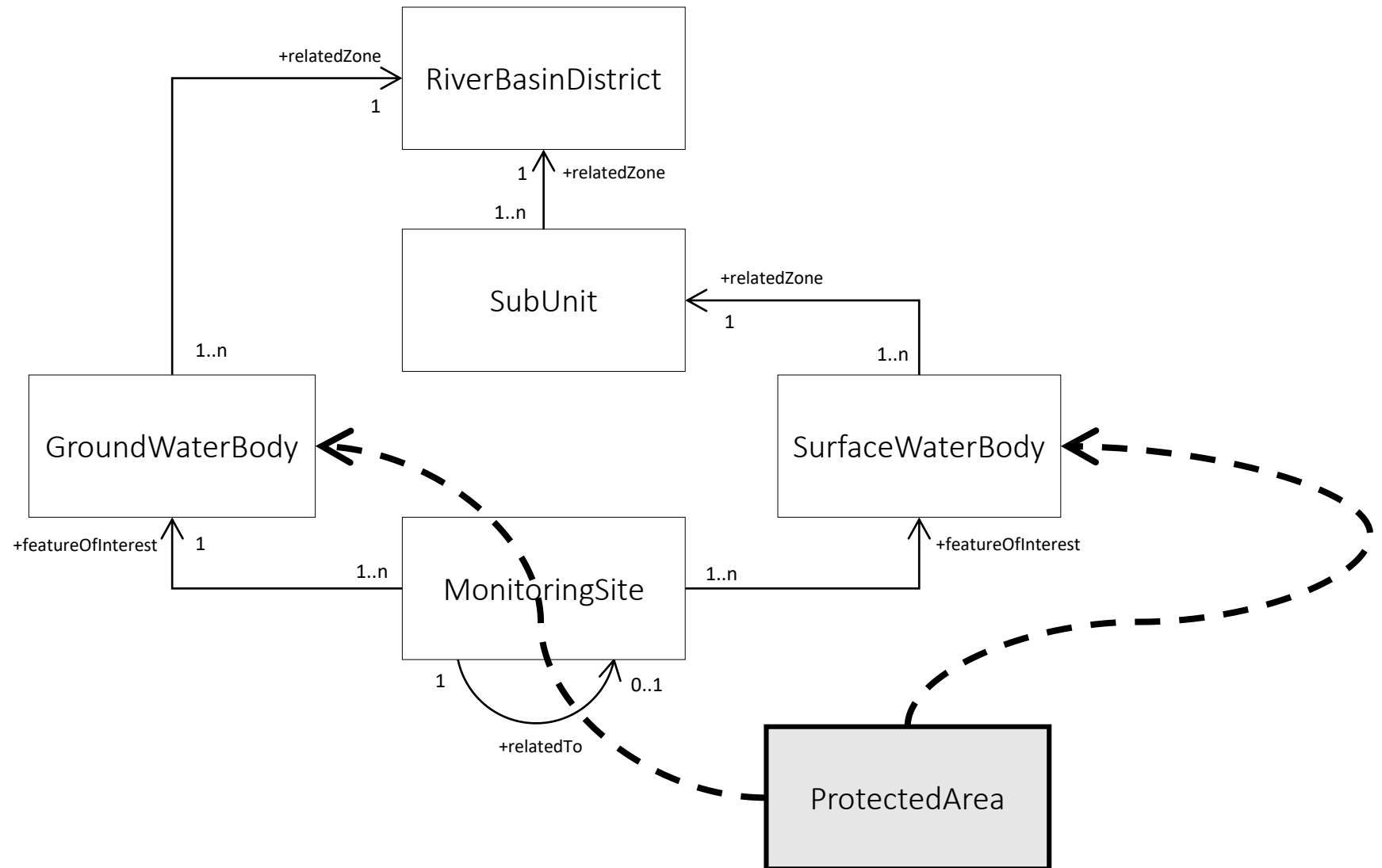
links to the WFD descriptive data



links to the WISE SoE time series

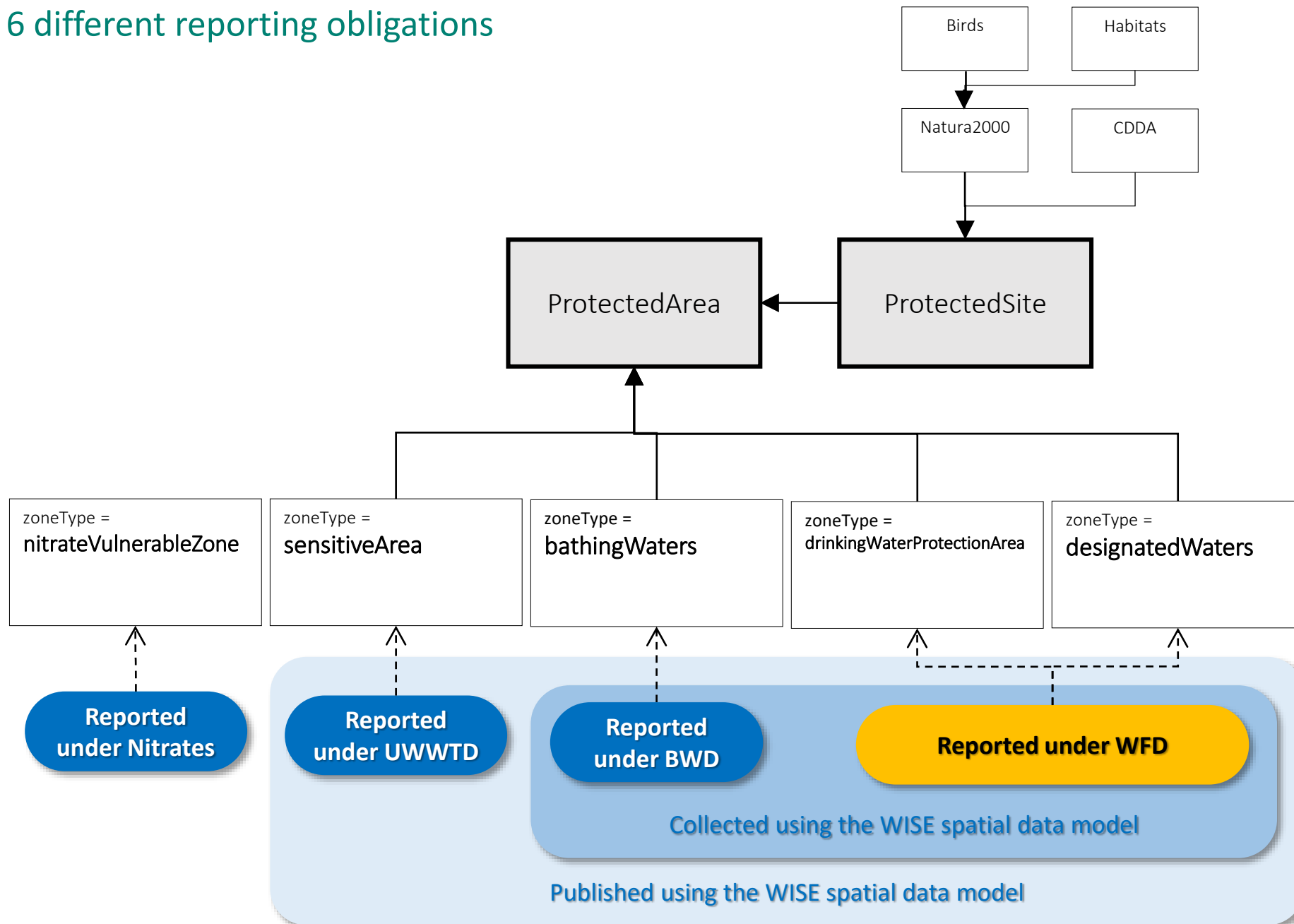


The Water Framework Directive **Protected Areas*** are also related to the WFD water bodies



* WFD Protected Areas are under the AM theme, not under the PS theme.

The WFD Protected Areas are reported under different 6 different reporting obligations



Areas of Management

The model nearly identical for all AM datasets

- RiverBasinDistrict,
- SubUnit,
- SurfaceWaterBody,
- GroundWaterBody
- ProtectedArea

INSPIRE theme	INSPIRE element	#	WISE GML data element	RiverBasinDistrict	SubUnit	SurfaceWaterBody	GroundWaterBody	ProtectedArea	Shapefile field name
AM EF	geometry	1	geometry	m	m	m	m	m	shape
AM EF	inspireId	2	inspireIdLocalId	m	m	m	m	m	localId
		3	inspireIdNamespace						namespace
		4	inspireIdVersionId	c	c	c	c	c	versionId
AM	thematicId	5	thematicIdIdentifier	m	m	m	m	m	thematicId
		6	thematicIdIdentifierScheme						themaIdSch
AM EF	beginLifespanVersion	9	beginLifespanVersion	c	c	c	c	c	beginLife
AM EF	endLifespanVersion	10	endLifespanVersion	c	c	c	c	c	endLife
(concept from SU)	predecessors	11	predecessorsIdentifier	c	c	c	c	c	predecesId
		12	predecessorsIdentifierScheme						predeldSch
(concept from SU)	sucessors	13	successorsIdentifier	c	c	c	c	c	successold
		14	successorsIdentifierScheme						succeldSch
(concept from SU)	evolutions	19	wiseEvolutionType	m	m	m	m	m	wEvolution
AM EF	name	20	nameTextInternational	m	m	m	m	m	nameTxtInt
		21	nameText	m	m	m	m	m	nameText
		22	nameLanguage						nameTxtLan
AM	designationPeriod	25	designationPeriodBegin	m	m	m	m	m	desigBegin
		26	designationPeriodEnd	c	c	c	c	c	desigEnd
AM	zoneType	29	zoneType	m	m	m	m	m	zoneType
AM	specialisedZoneType	30	specialisedZoneType		m	m	m	c	spZoneType
AM	legalBasis	31	legalBasisName	o	o	o	o	m	legisName
		32	legalBasisLink						legisLink
		33	legalBasisLevel						legisLevel
AM	relatedZone	34	relatedZoneIdentifier		m	m	m	o	rZoneld
		35	relatedZoneIdentifierScheme						rZoneldSch
AM	relatedZone	36	relatedZoneTransboundaryIdentifier	o	o	o	o		rTrnsId
		37	relatedZoneTransboundaryIdentifierScheme						rTrnsIdSch
		49	sizeValue	o	o	c	o	o	sizeValue
		50	sizeUom						sizeUoM
		51	meanDepth			o			meanDepth
		52	horizons				c		horizons
		55	link	o	o	o	o	o	link

Legend:

m

Mandatory element, must be reported

c

Conditional element, must be reported under specific circumstances

o

Optional element, can be reported

location data →

the national INSPIRE identifier →

relation to the WFD thematic data →

‘creation’, ‘deletion’, etc... →

names →

validity period →

type →

relation to other objects →

INSPIRE element	#	WISE GML data element	RiverBasinDistrict	SubUnit	SurfaceWaterBody	GroundWaterBody	ProtectedArea	Shapefile field name
geometry	1	geometry	m	m	m	m	m	shape
inspireId	2	inspireIdLocalId	m	m	m	m	m	localId
	3	inspireIdNamespace						namespace
	4	inspireIdVersionId	c	c	c	c	c	versionId
thematicId	5	thematicIdIdentifier	m	m	m	m	m	thematicId
	6	thematicIdIdentifierScheme						themaIdSch
beginLifespanVersion	9	beginLifespanVersion	c	c	c	c	c	beginLife
endLifespanVersion	10	endLifespanVersion	c	c	c	c	c	endLife
predecessors	11	predecessorsIdentifier	c	c	c	c	c	predecesId
	12	predecessorsIdentifierScheme						predeldSch
sucessors	13	successorsIdentifier	c	c	c	c	c	successold
	14	successorsIdentifierScheme						succeldSch
evolutions	19	wiseEvolutionType	m	m	m	m	m	wEvolution
name	20	nameTextInternational	m	m	m	m	m	nameTxtInt
	21	nameText	m	m	m	m	m	nameText
	22	nameLanguage						nameTxtLan
designationPeriod	25	designationPeriodBegin	m	m	m	m	m	desigBegin
	26	designationPeriodEnd	c	c	c	c	c	desigEnd
zoneType	29	zoneType	m	m	m	m	m	zoneType
specialisedZoneType	30	specialisedZoneType		m	m	m	c	spZoneType
legalBasis	31	legalBasisName	o	o	o	o	m	legisName
	32	legalBasisLink						legisLink
	33	legalBasisLevel						legisLevel
relatedZone	34	relatedZoneIdentifier		m	m	m	o	rZoneld
	35	relatedZoneIdentifierScheme						rZoneldSch
relatedZone	36	relatedZoneTransboundaryIdentifier	o	o	o	o		rTrnsId
	37	relatedZoneTransboundaryIdentifierScheme						rTrnsIdSch
	49	sizeValue	o	o	c	o	o	sizeValue
	50	sizeUom						sizeUoM
	51	meanDepth			o			meanDepth
	52	horizons				c		horizons
	55	link	o	o	o	o	o	link

Legend:

m	Mandatory element, must be reported
c	Conditional element, must be reported under specific circumstances
o	Optional element, can be reported

Environmental Monitoring Facilities

The element names are slightly different in the MonitoringSite data set, but the overall structure is the same.

INSPIRE theme	INSPIRE element	#	WISE GML data element	MonitoringSite	Shapefile field name
AM EF	geometry	1	geometry	m	shape
AM EF	inspireId	2	inspireIdLocalId	m	localId
		3	inspireIdNamespace		namespace
		4	inspireIdVersionId	c	versionId
AM	thematicId	5	thematicIdIdentifier	m	thematicId
		6	thematicIdIdentifierScheme		themaldSch
AM EF	beginLifespanVersion	9	beginLifespanVersion	c	beginLife
AM EF	endLifespanVersion	10	endLifespanVersion	c	endLife
EF	supersedes	15	supersedesIdentifier	c	predecId
		16	supersedesIdentifierScheme		predIdSch
EF	supersededBy	17	supersededByIdentifier	c	successId
		18	supersededByIdentifierScheme		succIdSch
(concept from SU)	evolutions	19	wiseEvolutionType	m	wEvolution
AM EF	name	20	nameTextInternational	m	nameTxtInt
		21	nameText		nameText
		22	nameLanguage	m	nameTxtLan
EF	operationalActivity	27	operationalActivityPeriodBegin	m	opActBegin
		28	operationalActivityPeriodEnd	c	opActEnd
EF	featureOfInterest	38	featureOfInterestIdentifier	m	foId
		39	featureOfInterestIdentifierScheme		foIdSch
EF	relatedTo	40	relatedToIdentifier	o	rSitId
		41	relatedToIdentifierScheme		rSitIdSch
EF	mediaMonitored	42	mediaMonitoredBiota		mediaBiota
		43	mediaMonitoredWater	m	mediaWater
		44	mediaMonitoredSediment		mediaSedim
EF	purpose	45	purpose	o	purpose
		46	catchmentArea	o	catchArea
		47	maximumDepth	o	maxDepth
		48	confidentialityStatus	m	confStatus
		55	link	o	link

Legend:

m

Mandatory element, must be reported

c

Conditional element, must be reported under specific circum

o

Optional element, can be reported

the location data →

the national INSPIRE identifier →

relation to the WFD thematic data →

'creation', 'deletion', etc... →

names →

validity period →

relation to other objects →

INSPIRE element	#	WISE GML data element	MonitoringSite	Shapefile field name
geometry	1	geometry	m	shape
inspireId	2	inspireIdLocalId	m	localId
	3	inspireIdNamespace	m	namespace
	4	inspireIdVersionId	c	versionId
thematicId	5	thematicIdIdentifier	m	thematicId
	6	thematicIdIdentifierScheme	m	themaldSch
beginLifespanVersion	9	beginLifespanVersion	c	beginLife
endLifespanVersion	10	endLifespanVersion	c	endLife
supersedes	15	supersedesIdentifier	c	precedesId
	16	supersedesIdentifierScheme	c	predeldSch
supersededBy	17	supersededByIdentifier	c	successold
	18	supersededByIdentifierScheme	c	succeldSch
evolutions	19	wiseEvolutionType	m	wEvolution
name	20	nameTextInternational	m	nameTxtInt
	21	nameText	m	nameText
	22	nameLanguage	m	nameTxtLan
operationalActivity	27	operationalActivityPeriodBegin	m	opActBegin
	28	operationalActivityPeriodEnd	c	opActEnd
featureOfInterest	38	featureOfInterestIdentifier	m	foild
	39	featureOfInterestIdentifierScheme	m	foildSch
relatedTo	40	relatedToIdentifier	o	rSiteld
	41	relatedToIdentifierScheme	o	rSiteldSch
mediaMonitored	42	mediaMonitoredBiota	m	mediaBiota
	43	mediaMonitoredWater	m	mediaWater
	44	mediaMonitoredSediment	m	mediaSedim
purpose	45	purpose	o	purpose
	46	catchmentArea	o	catchArea
	47	maximumDepth	o	maxDepth
	48	confidentialityStatus	m	confStatus
	55	link	o	link

Legend:

m	Mandatory element, must be reported
c	Conditional element, must be reported under specific circumstances
o	Optional element, can be reported



What has changed since 2016?

*INSPIRE directive now in force
for Annex III themes*

*was previously reported
both in the spatial and
in the descriptive data*

*is needed
for security reasons*

INSPIRE element	#	WISE GML data element	MonitoringSite	RiverBasinDistrict	SubUnit	SurfaceWaterBody	SurfaceWaterBodyLine	GroundWaterBody	ProtectedArea	ProtectedAreaLine	ProtectedAreaPoint
inspireId	3	inspireIdNamespace	m	m	m	m	m	m	m	m	m
name	20	nameTextInternational	m	m	m	m	m	m	m	m	m
legalBasis	31	legalBasisName		o	o	o	o	o			
	32	legalBasisLink		o	o	o	o	o			
	33	legalBasisLevel		o	o	o	o	o			
relatedZone	34	relatedZoneIdentifier							o	o	o
	35	relatedZoneIdentifierScheme							o	o	o
relatedZone	36	relatedZoneTransboundaryIdentifier		o	o						
	37	relatedZoneTransboundaryIdentifierScheme		o	o						
purpose	45	purpose	o								
	48	confidentialityStatus	m								
	49	sizeValue		o	o	c	o	o	o	o	o
	50	sizeUom		o	o	c	o	o	o	o	o
	52	horizons						c			

m	Mandatory element in v7.0.6. The element was optional in v6.0.6.
c	Conditional element in v7.0.6. The element was mandatory in v6.0.6.
o	Optional element in v7.0.6. The element was mandatory in v6.0.6.
o	Optional element in v7.0.6. The element did not exist in v6.0.6.

*All other elements
have lesser requirements in 2022.*

How are INSPIRE complex data types stored in a flat GML file?

«dataType» Base Types::Identifier	
+ localId: CharacterString	
+ namespace: CharacterString	
«lifeCycleInfo, voidable»	
+ versionId: CharacterString [0..1]	



«dataType» Base Types 2::ThematicIdentifier	
+ identifier: CharacterString	
+ identifierScheme: CharacterString	



inspireId	2	inspireIdLocalId	m
	3	inspireIdNamespace	
	4	inspireIdVersionId	c
thematicId	5	thematicIdIdentifier	m
	6	thematicIdIdentifierScheme	

*The name is concatenated,
making easier to recognise each element.*

Why use thematic identifiers and not only INSPIRE identifiers?

*"Multiple thematic object identifiers may be assigned to a zone where different data exchange requirements (e.g. national vs European reporting) have defined different lexical rules for thematic object identifiers. Where multiple thematic object identifiers exist all should be provided. **This shall allow external datasets that use these thematic object identifiers for referencing to link to the INSPIRE spatial object.**"*



—		
Spatial Object	WFD Reporting Identifier Scheme	WISE SoE Reporting Identifier Scheme
Monitoring Site	'euMonitoringSiteCode'	'eionetMonitoringSiteCode'
Surface Water Body	'euSurfaceWaterBodyCode'	'eionetSurfaceWaterBodyCode'
Groundwater Body	'euGroundWaterBodyCode'	'eionetGroundWaterBodyCode'
Sub Unit	'euSubUnitCode'	'eionetSubUnitCode'
River Basin District	'euRBDCode'	'eionetRBDCode'

So, thematic identifiers are used in all the data sets.
Also, they are used to link between data sets.

Why are there 2 different names for each element?

The spatial data can be prepared using shapefiles (a common GIS format).
The data delivery must be made in GML format (conversion tools are available in Reportnet).

*This is the “formal” name
of the element in the XML schema.
It must be used in the GML files.*

*This is the “short name”
of the element in shapefile format.
Shapefiles have a limitation of 10 characters.*



WISE GML data element	Shapefile field name
geometry	shape
inspireIdLocalId	localId
inspireIdNamespace	namespace
inspireIdVersionId	versionId
thematicIdIdentifier	thematicId
thematicIdIdentifierScheme	themalIdSch
beginLifespanVersion	beginLife
endLifespanVersion	endLife

Must the shapefile format be used?

No.

Data Providers can create and deliver GML files (XML schemas are provided for each data set).

But reporters can also use shapefiles, if they prefer to work in that format.

Empty “template” shapefiles are provided for each data set, and also prefilled shapefiles with the latest information reported.

Shapefiles must be converted to GML when uploading to Reportnet.



Reporting the spatial data

Reporting the spatial data in CDR

- Data delivery takes place in Reportnet Central Data Repository (CDR)

The screenshot shows the EIONET Central Data Repository (CDR) website. The header includes the European Environment Agency logo and the EIONET Central Data Repository title. The main content area is divided into several sections:

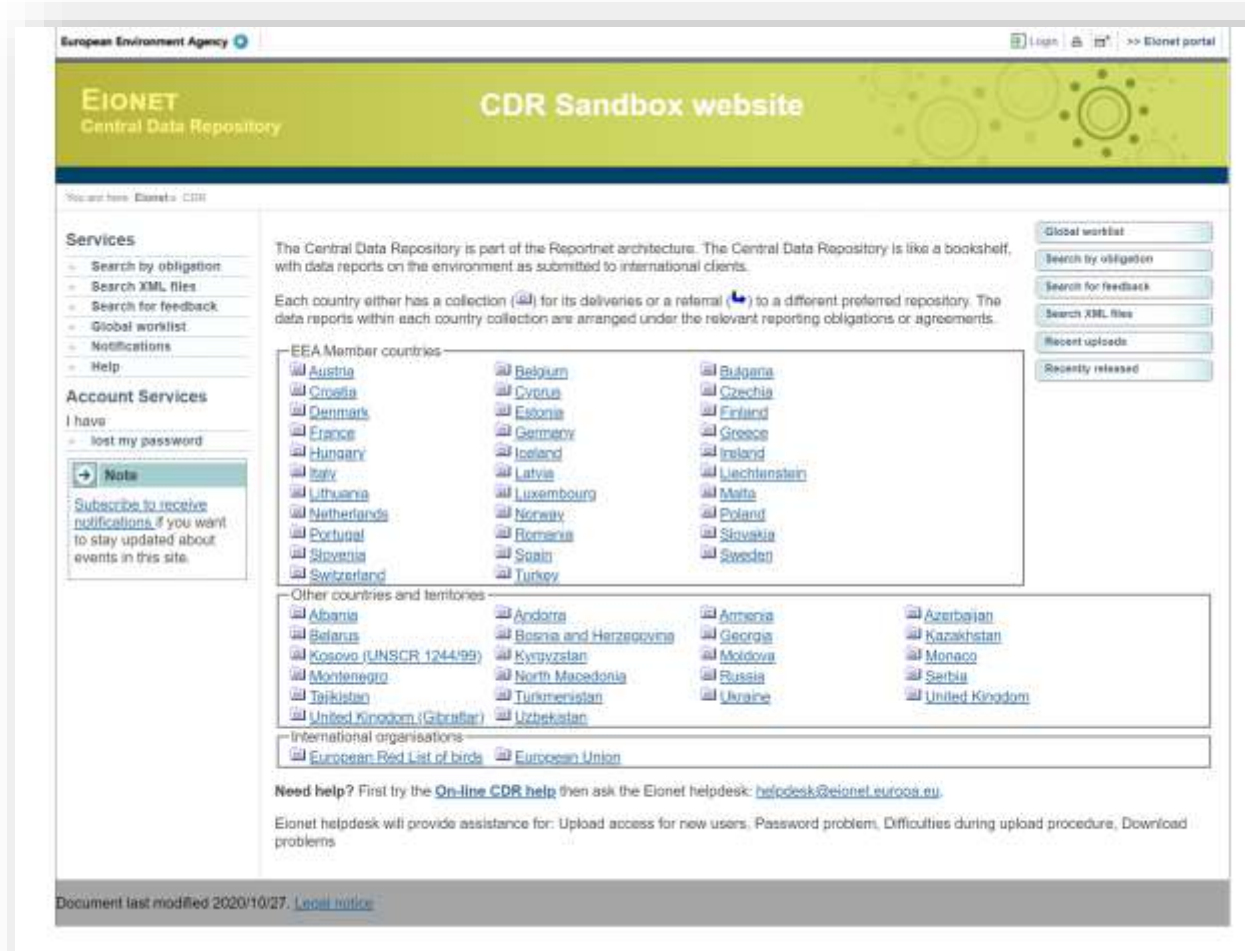
- Services:** Includes links for Search by obligation, Search XML files, Search for feedback, Global worklist, Notifications, and Help.
- Account Services:** Includes a link for 'I have lost my password'.
- Note:** A message about subscribing to receive notifications.
- Your password:** A message about password expiration.
- Global worklist:** A button to view the global worklist.
- Search by obligation:** A button to search by obligation.
- Search for feedback:** A button to search for feedback.
- Search XML files:** A button to search XML files.
- Recent uploads:** A button to view recent uploads.
- Recently released:** A button to view recently released data.
- EEA Member countries:** A list of countries including Austria, Belgium, Bulgaria, Croatia, Cyprus, Czechia, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, and Turkey.
- Other countries and territories:** A list of countries and territories including Albania, Andorra, Armenia, Azerbaijan, Belarus, Bosnia and Herzegovina, Georgia, Kazakhstan, Kosovo (UNSCR 1244/99), Kyrgyzstan, Moldova, Monaco, Montenegro, North Macedonia, Russia, Serbia, Tajikistan, Turkmenistan, Ukraine, United Kingdom (Gibraltar), and Uzbekistan.
- International organisations:** A list of organisations including European Red List of birds and European Union.

At the bottom, there is a 'Need help?' section with a link to the On-line CDR help and a link to the Eionet helpdesk. Below this, it states: 'Eionet helpdesk will provide assistance for: Upload access for new users, Password problem, Difficulties during upload procedure, Download problems'.

Testing and training in CDRSandbox

1

- CDRSandbox is an open testing area. Anyone can use it.



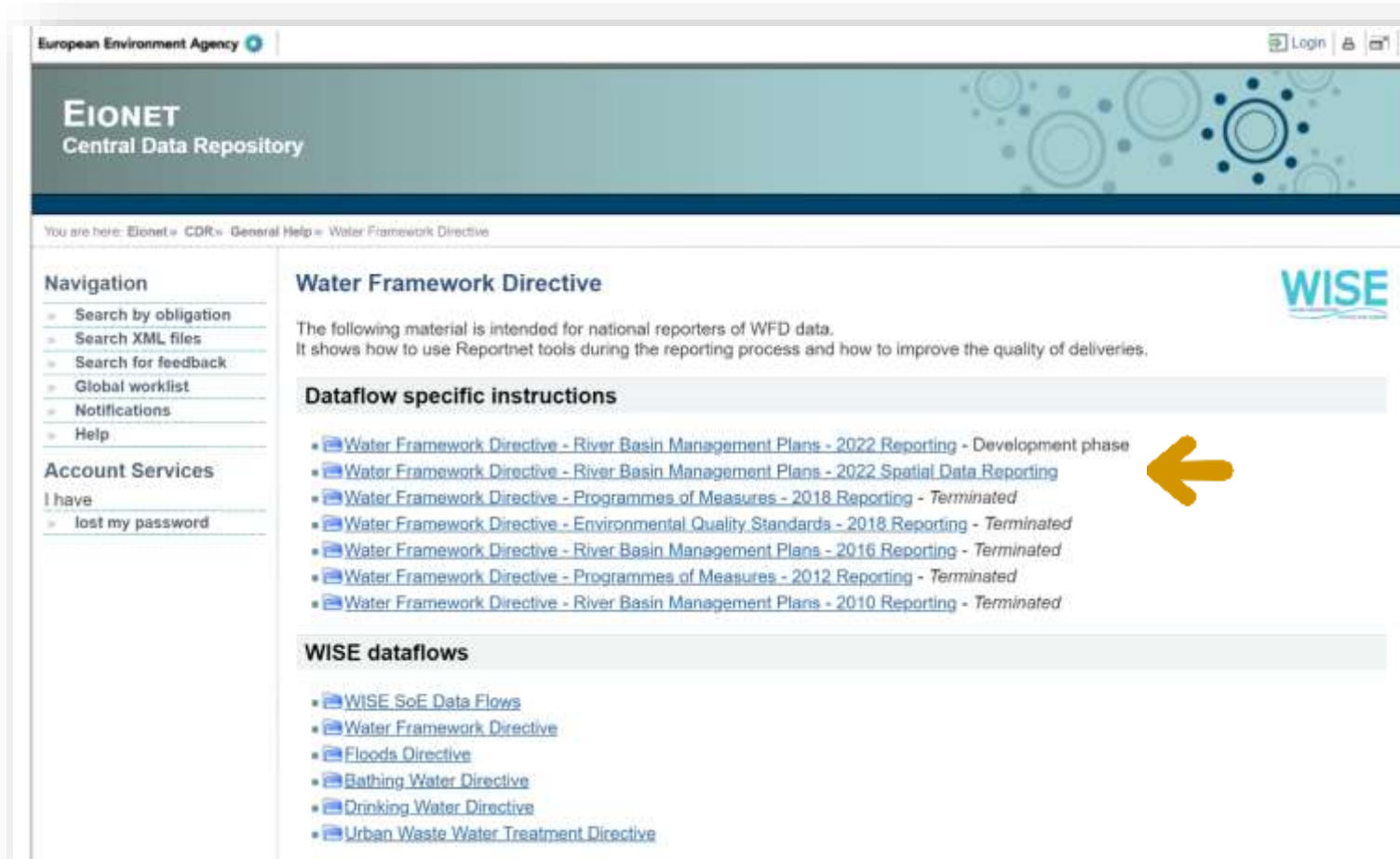
- The Central Data Repository is the official repository.
- Use <https://cdr.eionet.europa.eu/> to make the official data delivery.
 - You will need valid EIONET credentials.
 - You will need to be an authorised national data reporter for the reporting obligation.
- Use <https://cdrsandbox.eionet.europa.eu/> if you want to perform tests.
 - You may login with the credentials **datareporter/datareporter**.
 - Remember that CDRSandbox is an open access platform: to not upload confidential data.
- The delivery process is identical in both platforms.

If you need reporting permissions in CDR

- If you need reporting permissions for WFD Spatial Data
 - Check if your user is listed in [Water Framework Directive - Data Reporters](#)
 - If your user is not listed, contact your [WISE - National reporting coordinators](#)
 - The national coordinator should send an email to wfd.helpdesk@eionet.europa.eu requesting that your user is added to the list.
- If you need reporting permissions for EIONET WISE-5
 - Check if your user is listed in [WISE - Spatial Data \(WISE-5\) Reporters](#)
 - If your user is not listed, contact your EIONET [National Focal Points](#)
 - The EIONET National Focal Point will grant you the necessary permissions.

Always start in the help page...

- All the documentation is available in the [help pages](#).



Start in the help page

Read the docs...

3

All the guidance documents



European Environment Agency

EIONET
Central Data Repository

You are here: Eionet > CDR > General Help > Water Framework Directive > Water Framework Directive - River Basin Management Plans - 2022 Spatial data

Navigation

- Search by obligation
- Search XML files
- Search for feedback
- Global worklist
- Notifications
- Help

Account Services

I have

- lost my password

WISE Spatial Data reporting resources

Water Framework Directive - River Basin Management Plans - 2022 reporting

Helpdesk

All enquiries can be directed to wfd_helpdesk@eionet.europa.eu

Current version: 7.0.6

Guidance documents

- [WISE GIS Guidance v7.0.6](#) - Complete reporting guidance.
- [Protected Areas clarification note](#) - Clarification on how to report protected areas.
- [WISE Data Model v7.0.6 - Quick Reference Card](#) - Condensed description.
- [WISE Reportnet2 Guidance](#) - How to access prefilled files and convert shapefiles to GML.
- [QAQC Scripts](#) - Documentation for the QAQC and scripts that are executed

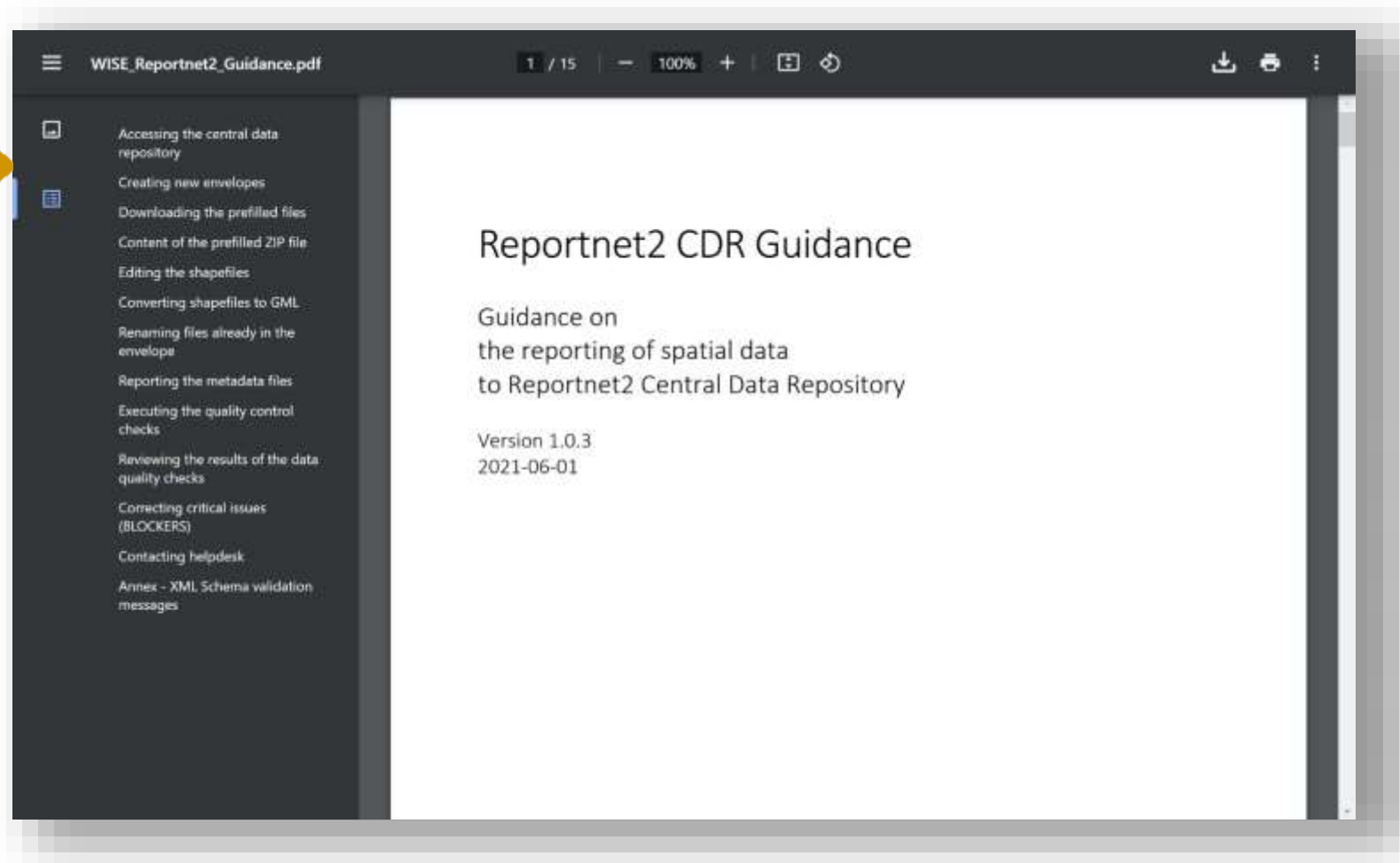
Spatial model quick reference

INSPIRE theme	INSPIRE element	#	WISE GML data element	Monitoring plan	River Basin District	Sub-basin	Surface Water Body	Surface Water Body type	Ground Water Body	Protected Area	Protected Area type	Protected Area point	Ground Water Body point	Surface Water Body point	Shapefile field name
AM EF	geometry	1	geometry	AM	EF	AM	EF	AM	EF	AM	EF	AM	EF	AM	shape
AM EF	inspireid	2	inspireid	AM	EF	AM	EF	AM	EF	AM	EF	AM	EF	AM	localid
AM EF	inspireid	3	inspireid	AM	EF	AM	EF	AM	EF	AM	EF	AM	EF	AM	namespace
AM EF	inspireid	4	inspireid	AM	EF	AM	EF	AM	EF	AM	EF	AM	EF	AM	versionid
AM	thematicid	5	thematicid	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	thematicid
AM	thematicid	6	thematicid	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	thematicid
(from WFD)	hydroid	7	hydroid	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	hydroid
(from WFD)	hydroid	8	hydroid	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	hydroid

Reportnet guidance

- The reporting process is described in the [Reportnet2 CDR Guidance](https://cdr.eionet.europa.eu/help/WFD/WFD_780_2022/GISGuidance/WISE_Reportnet2_Guidance.pdf).

We'll follow these steps



Select your country collection

3

European Environment Agency

Login

>> Eionet portal

EIONET

Central Data Repository

You are here: Eionet > CDR

Services

- Search by obligation
- Search XML files
- Search for feedback
- Global worklist
- Notifications
- Help

Account Services

- I have lost my password

Note

Subscribe to receive notifications if you want to stay updated about events in this site.

Your password

The Eionet password expires two years after it was last changed.

The Central Data Repository is part of the Reportnet architecture. The Central Data Repository is like a bookshelf, with data reports on the environment as submitted to international clients.

Each country either has a collection (📁) for its deliveries or a referral (🔗) to a different preferred repository. The data reports within each country collection are arranged under the relevant reporting obligations or agreements.

EEA Member countries

Austria	Belgium	Bulgaria
Croatia	Cyprus	Czechia
Denmark	Estonia	Finland
France	Germany	Greece
Hungary	Iceland	Ireland
Italy	Latvia	Liechtenstein
Lithuania	Luxembourg	Malta
Netherlands	Norway	Poland
Portugal	Romania	Slovakia
Slovenia	Spain	Sweden
Switzerland	Turkey	

Other countries and territories

Albania	Andorra	Armenia	Azerbaijan
Belarus	Bosnia and Herzegovina	Georgia	Kazakhstan
Kosovo (UNSCR 1244/99)	Kyrgyzstan	Moldova	Monaco
Montenegro	North Macedonia	Russia	Serbia
Tajikistan	Turkmenistan	Ukraine	United Kingdom
United Kingdom (Gibraltar)	Uzbekistan		

International organisations

European Red List of birds	European Union
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Global worklist

Search by obligation

Search for feedback

Search XML files

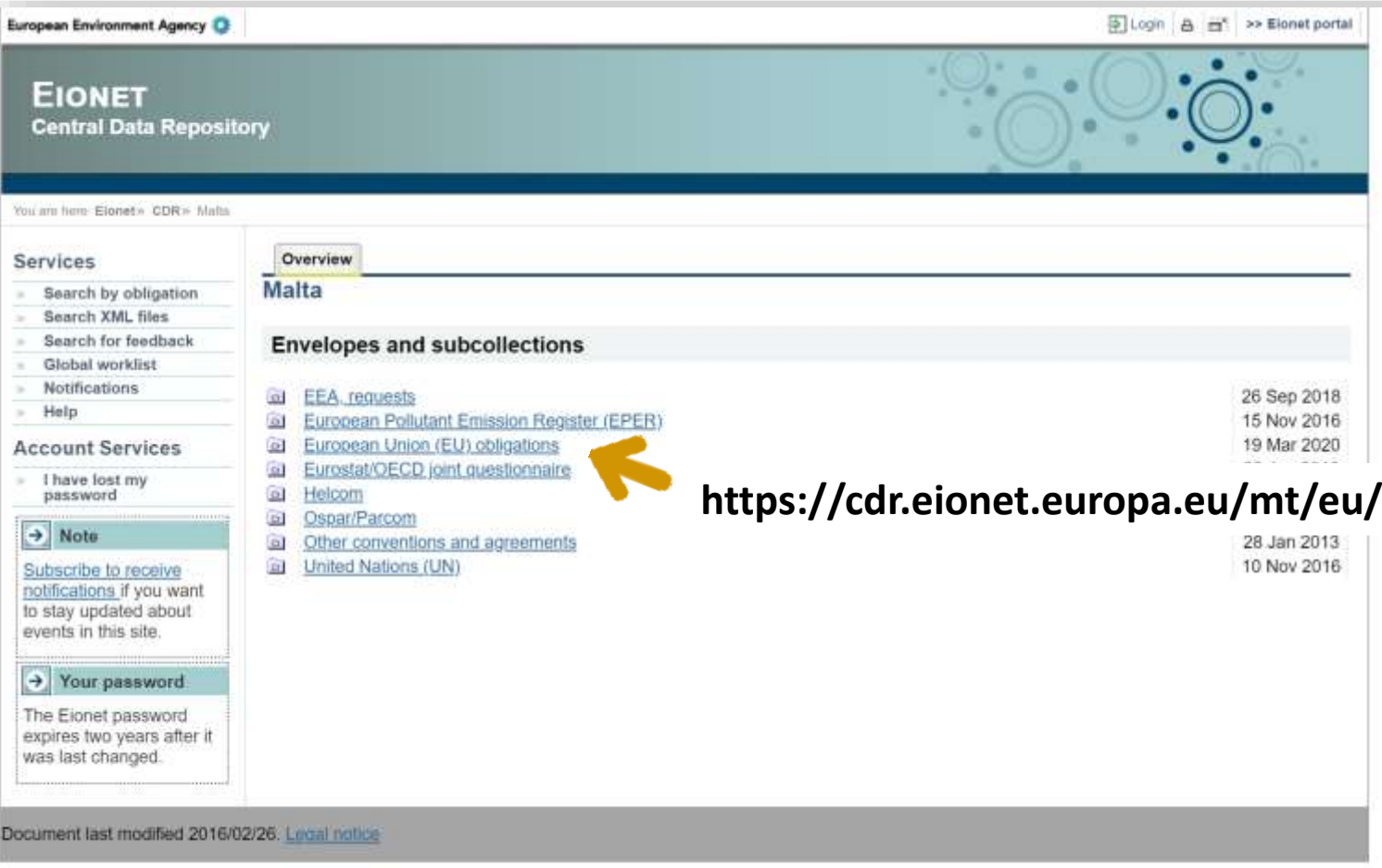
Recent uploads

Recently released

Need help? First try the [On-line CDR help](#) then ask the Eionet helpdesk: helpdesk@eionet.europa.eu.

Eionet helpdesk will provide assistance for: Upload access for new users, Password problem, Difficulties during upload procedure, Download problems

Navigate to the correct folder



The screenshot shows the EIONET Central Data Repository website. The header includes the European Environment Agency logo and the EIONET Central Data Repository title. The breadcrumb trail indicates the current location: You are here: Eionet » CDR » Malta. The left sidebar contains sections for Services (Search by obligation, Search XML files, Search for feedback, Global worklist, Notifications, Help) and Account Services (I have lost my password). The main content area is titled 'Malta' and lists 'Envelopes and subcollections'. A yellow arrow points to the 'European Union (EU) obligations' link in the list.

Envelope/Subcollection	Last Modified
EEA requests	26 Sep 2018
European Pollutant Emission Register (EPER)	15 Nov 2016
European Union (EU) obligations	19 Mar 2020
Eurostat/OECD joint questionnaire	
Helcom	
Ospar/Parcom	
Other conventions and agreements	28 Jan 2013
United Nations (UN)	10 Nov 2016

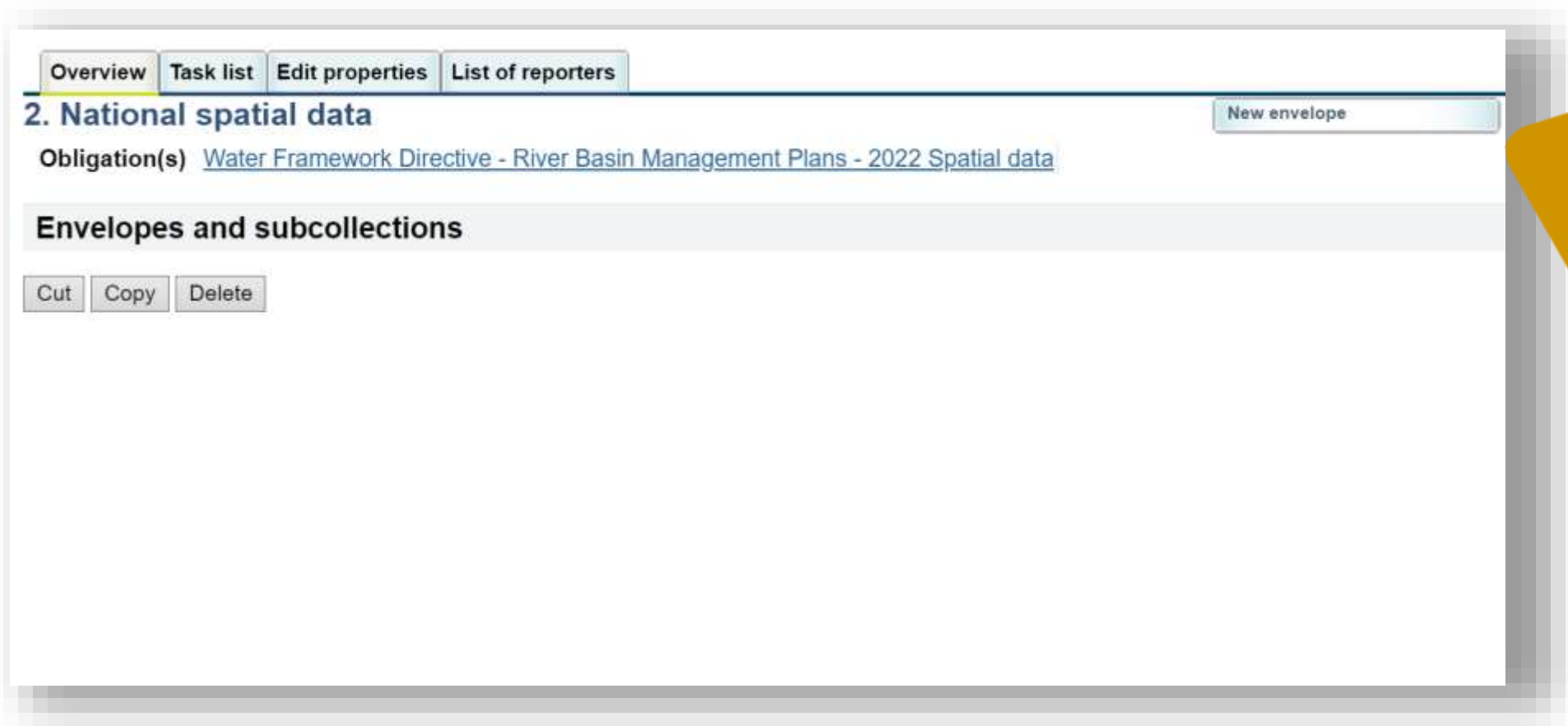
Document last modified 2016/02/26. [Legal notice](#)

<https://cdr.eionet.europa.eu/mt/eu/wfd2022/spatial/>

Note: EIONET WISE-5 deliveries should be made in https://cdr.eionet.europa.eu/mt/eea/wise_soe/wise5/

Create a new envelope

3



Remember to login first...

Activate the envelope

3

Overview

Edit properties

Manage workflow history

History

Test envelope - please ignore

Zip envelope

Activate task

Description

Obligations [Water Framework Directive - River Basin Management Plans - 2022 Spatial data](#)

Period 2020 - Not applicable

Coverage Malta

Status Task(s) waiting to be assigned: [Activate task: Draft](#) (You have to activate this task first before you can upload your files.)

→

Note

If you want to stay updated about events in this envelope [Subscribe to receive notifications](#) for this country and the current dataflow(s).

Files in this envelope

Remember to release the envelope when you have uploaded all files

Feedback for this envelope

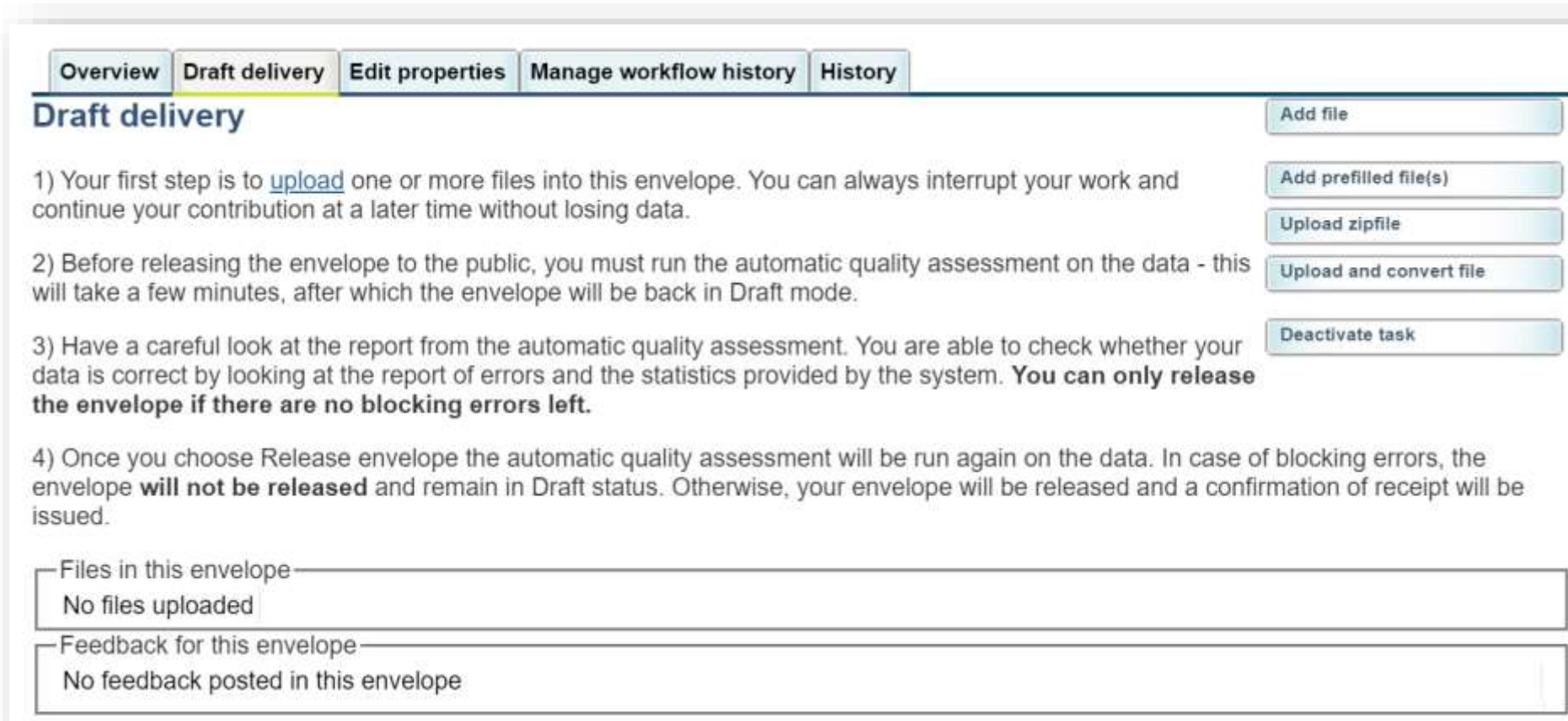
No feedback posted in this envelope



Add the prefilled files

3

This step is only necessary if you want to download a prefilled set of shapefiles, and update the data.



The screenshot shows a web interface with a top navigation bar containing five tabs: 'Overview', 'Draft delivery' (highlighted in yellow), 'Edit properties', 'Manage workflow history', and 'History'. Below the tabs, the 'Draft delivery' section is titled. On the right side of this section, there is a vertical list of five buttons: 'Add file', 'Add prefilled file(s)', 'Upload zipfile', 'Upload and convert file', and 'Deactivate task'. A large yellow arrow points from the right edge of the image towards the 'Add prefilled file(s)' button. The main content area on the left contains four numbered instructions:

- 1) Your first step is to [upload](#) one or more files into this envelope. You can always interrupt your work and continue your contribution at a later time without losing data.
- 2) Before releasing the envelope to the public, you must run the automatic quality assessment on the data - this will take a few minutes, after which the envelope will be back in Draft mode.
- 3) Have a careful look at the report from the automatic quality assessment. You are able to check whether your data is correct by looking at the report of errors and the statistics provided by the system. **You can only release the envelope if there are no blocking errors left.**
- 4) Once you choose Release envelope the automatic quality assessment will be run again on the data. In case of blocking errors, the envelope **will not be released** and remain in Draft status. Otherwise, your envelope will be released and a confirmation of receipt will be issued.

Below the instructions, there are two summary boxes:

- Files in this envelope —
No files uploaded
- Feedback for this envelope —
No feedback posted in this envelope

If you already have prepared your delivery, you don't need to do this.

You can now download and edit the data

3

This step is only necessary if you want to start with a prefilled set of shapefiles.

Overview Edit properties Manage workflow history History

Test envelope - please ignore Zip envelope

Description

Obligations [Water Framework Directive - River Basin Management Plans - 2022 Spatial data](#)

Period 2020 - Not applicable

Coverage Malta

Status Task(s) in progress: [Add prefill file](#)

Note

If you want to stay updated about events in this envelope [Subscribe to receive notifications](#) for this country and the current dataflow(s).

Files in this envelope

1	WFD-SpatialData_MT.zip	04 Jun 2022	1.5 KB
---	--	-------------	--------

Click the file link

If you already have prepared your delivery, you don't need to do this.

The ZIP file contains different folders

```

Archive:  /tmp/tmpkHJB7K
Length    Date      Time    Name
-----
      5  12-15-2020  15:04  SurfaceWaterBody/SurfaceWaterBody.cpg
 121767  12-15-2020  15:04  SurfaceWaterBody/SurfaceWaterBody.dbf
    168  12-15-2020  15:04  SurfaceWaterBody/SurfaceWaterBody.prj
    308  12-15-2020  15:04  SurfaceWaterBody/SurfaceWaterBody.sbn
    132  12-15-2020  15:04  SurfaceWaterBody/SurfaceWaterBody.sbx
 461204  12-15-2020  15:04  SurfaceWaterBody/SurfaceWaterBody.shp
    252  12-15-2020  15:04  SurfaceWaterBody/SurfaceWaterBody.shx
      5  12-15-2020  14:58  MonitoringSite/MonitoringSite.cpg
 630351  12-15-2020  14:58  MonitoringSite/MonitoringSite.dbf
    168  12-15-2020  14:58  MonitoringSite/MonitoringSite.prj
    1436  12-15-2020  14:58  MonitoringSite/MonitoringSite.sbn
    180  12-15-2020  14:58  MonitoringSite/MonitoringSite.sbx
    8356  12-15-2020  14:58  MonitoringSite/MonitoringSite.shp
    1132  12-15-2020  14:58  MonitoringSite/MonitoringSite.shx
      5  12-15-2020  15:08  RiverBasinDistrict/RiverBasinDistrict.cpg
   6902  12-15-2020  15:08  RiverBasinDistrict/RiverBasinDistrict.dbf
    168  12-15-2020  15:08  RiverBasinDistrict/RiverBasinDistrict.prj
    132  12-15-2020  15:08  RiverBasinDistrict/RiverBasinDistrict.sbn
    116  12-15-2020  15:08  RiverBasinDistrict/RiverBasinDistrict.sbx
   2252  12-15-2020  15:08  RiverBasinDistrict/RiverBasinDistrict.shp
    108  12-15-2020  15:08  RiverBasinDistrict/RiverBasinDistrict.shx
      5  12-15-2020  15:07  SubUnit/SubUnit.cpg
   7551  12-15-2020  15:07  SubUnit/SubUnit.dbf
    168  12-15-2020  15:07  SubUnit/SubUnit.prj
    132  12-15-2020  15:07  SubUnit/SubUnit.sbn
    116  12-15-2020  15:07  SubUnit/SubUnit.sbx
   2252  12-15-2020  15:07  SubUnit/SubUnit.shp
    108  12-15-2020  15:07  SubUnit/SubUnit.shx
      5  12-15-2020  15:00  GroundWaterBody/GroundWaterBody.cpg
 100010  12-15-2020  15:00  GroundWaterBody/GroundWaterBody.dbf
    168  12-15-2020  15:00  GroundWaterBody/GroundWaterBody.prj
    268  12-15-2020  15:00  GroundWaterBody/GroundWaterBody.sbn
    124  12-15-2020  15:00  GroundWaterBody/GroundWaterBody.sbx
 133964  12-15-2020  15:00  GroundWaterBody/GroundWaterBody.shp
    220  12-15-2020  15:00  GroundWaterBody/GroundWaterBody.shx
-----
 1480238  35 files

```

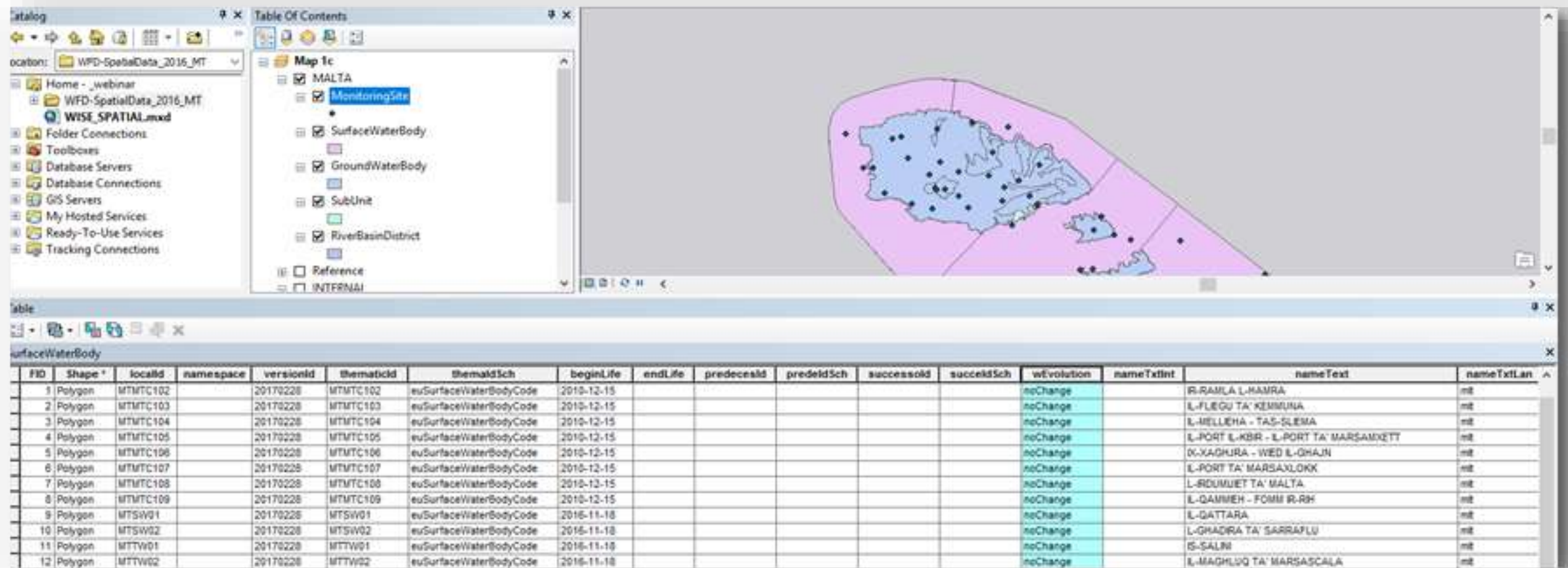
The content of the file depends on the country.
Each shapefile must be in a separate folder.

This step is only necessary if you want to start with a prefilled set of shapefiles.

If you already have prepared your delivery, you don't need to do this.

You can now edit the shapefiles in your GIS software

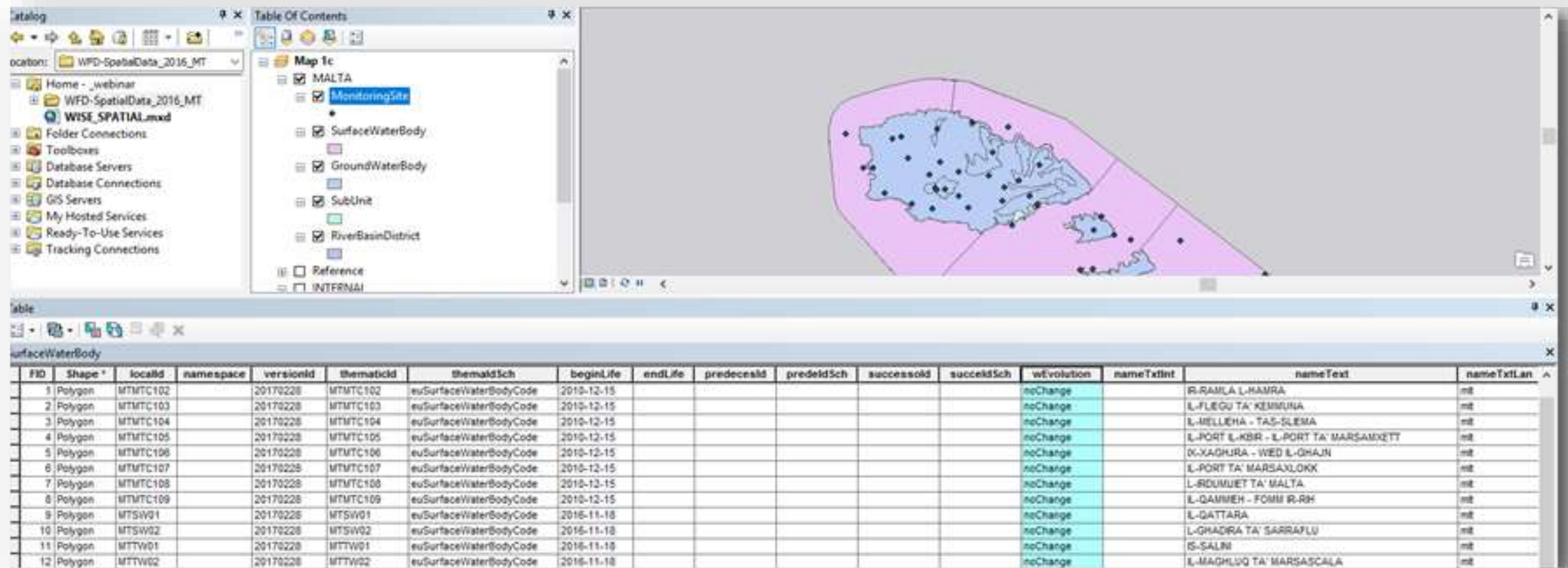
3



The screenshot displays a GIS application window. On the left, a 'Catalog' pane shows a project named 'WFD-SpatialData_2016_MT'. The 'Table Of Contents' pane on the right lists layers for 'Map 1c', including 'MALTA', 'MonitoringSite', 'SurfaceWaterBody', 'GroundWaterBody', 'SubUnit', and 'RiverBasinDistrict'. The main map area shows a map of Malta with a pink landmass and blue water bodies. Below the map, a 'Table' pane displays a data table for 'surfaceWaterBody'.

FID	Shape *	localId	namespace	versionId	thematicId	thematicSch	beginLife	endLife	predecessId	predecessSch	successId	successSch	WEvolution	nameTxtInt	nameText	nameTxtLang
1	Polygon	MTMTC102		20170228	MTMTC102	euSurfaceWaterBodyCode	2010-12-15						noChange		R-RAMLA L-HAMRA	mt
2	Polygon	MTMTC103		20170228	MTMTC103	euSurfaceWaterBodyCode	2010-12-15						noChange		L-FLEGU TA' KEMMUNA	mt
3	Polygon	MTMTC104		20170228	MTMTC104	euSurfaceWaterBodyCode	2010-12-15						noChange		L-MELLEHA - TAS-SLEMA	mt
4	Polygon	MTMTC105		20170228	MTMTC105	euSurfaceWaterBodyCode	2010-12-15						noChange		L-PORT L-KBR - L-PORT TA' MARSAMXETT	mt
5	Polygon	MTMTC106		20170228	MTMTC106	euSurfaceWaterBodyCode	2010-12-15						noChange		O-XAGHURA - WIED L-GHAJN	mt
6	Polygon	MTMTC107		20170228	MTMTC107	euSurfaceWaterBodyCode	2010-12-15						noChange		L-PORT TA' MARSAXLOKK	mt
7	Polygon	MTMTC108		20170228	MTMTC108	euSurfaceWaterBodyCode	2010-12-15						noChange		L-RDUMUET TA' MALTA	mt
8	Polygon	MTMTC109		20170228	MTMTC109	euSurfaceWaterBodyCode	2010-12-15						noChange		L-QAMMEH - FOMI R-RH	mt
9	Polygon	MTSW01		20170228	MTSW01	euSurfaceWaterBodyCode	2016-11-18						noChange		L-QATTARA	mt
10	Polygon	MTSW02		20170228	MTSW02	euSurfaceWaterBodyCode	2016-11-18						noChange		L-QHADRA TA' SARRAFU	mt
11	Polygon	MTTW01		20170228	MTTW01	euSurfaceWaterBodyCode	2016-11-18						noChange		IS-SALNI	mt
12	Polygon	MTTW02		20170228	MTTW02	euSurfaceWaterBodyCode	2016-11-18						noChange		L-MAGHLUQ TA' MARSASCALA	mt

If nothing as changed since the last delivery in 2016...



The screenshot shows a GIS application interface. On the left is a 'Catalog' pane with a tree view showing the project structure. In the center is a 'Table Of Contents' pane listing map layers. On the right is a map of Malta with several black dots representing monitoring sites. Below the map is a data table titled 'surfaceWaterBody'.

FID	Shape *	localId	namespace	versionId	thematicId	thematisSch	beginLife	endLife	predecessId	predecessSch	successId	successSch	wiseEvolution	nameTextInt	nameText	nameTextLang
1	Polygon	MTMTC102		20170228	MTMTC102	euSurfaceWaterBodyCode	2010-12-15						noChange		R-RAMLA L-HAMRA	mt
2	Polygon	MTMTC103		20170228	MTMTC103	euSurfaceWaterBodyCode	2010-12-15						noChange		L-FLEGU TA' KEMMUNA	mt
3	Polygon	MTMTC104		20170228	MTMTC104	euSurfaceWaterBodyCode	2010-12-15						noChange		L-MELLEHA - TAS-SLEMA	mt
4	Polygon	MTMTC105		20170228	MTMTC105	euSurfaceWaterBodyCode	2010-12-15						noChange		L-PORT L-KBR - L-PORT TA' MARSAMXETT	mt
5	Polygon	MTMTC106		20170228	MTMTC106	euSurfaceWaterBodyCode	2010-12-15						noChange		O-XAGHURA - WIED L-GHAJN	mt
6	Polygon	MTMTC107		20170228	MTMTC107	euSurfaceWaterBodyCode	2010-12-15						noChange		L-PORT TA' MARSAXLOKK	mt
7	Polygon	MTMTC108		20170228	MTMTC108	euSurfaceWaterBodyCode	2010-12-15						noChange		L-RDUMUET TA' MALTA	mt
8	Polygon	MTMTC109		20170228	MTMTC109	euSurfaceWaterBodyCode	2010-12-15						noChange		L-QAMMEH - FOMI R-RH	mt
9	Polygon	MTSW01		20170228	MTSW01	euSurfaceWaterBodyCode	2016-11-18						noChange		L-QATTARA	mt
10	Polygon	MTSW02		20170228	MTSW02	euSurfaceWaterBodyCode	2016-11-18						noChange		L-QHADRA TA' SARRAFU	mt
11	Polygon	MTTW01		20170228	MTTW01	euSurfaceWaterBodyCode	2016-11-18						noChange		IS-SALNI	mt
12	Polygon	MTTW02		20170228	MTTW02	euSurfaceWaterBodyCode	2016-11-18						noChange		L-MAGHLUQ TA' MARSASCALA	mt



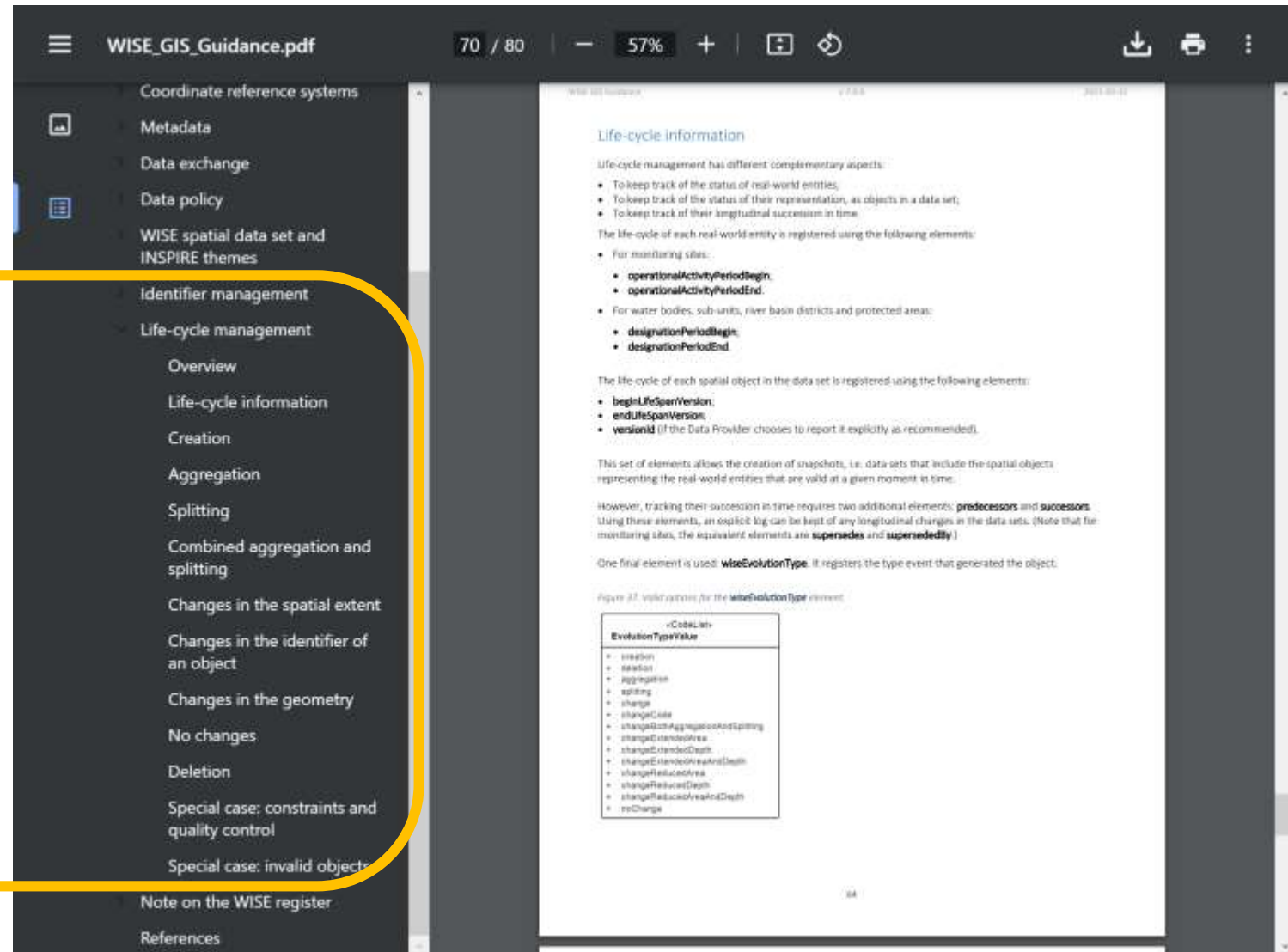
Just fill in the **inspireIdNamespace** and **nameTextInternational** (if they are missing), and set **wiseEvolutionType** = 'noChange'

If you need to add, remove or change records...

Please refer to the chapter about **life-cycle management** in the WISE GIS Guidance.

It contains examples for all the possible cases.

Contact
wfd.helpdesk@eionet.europa.eu
 if you need further clarifications.



Uploading and converting the updated ZIP file

3

Overview

Draft delivery

Edit properties

History

Draft delivery

Add file

Add prefilled file(s)

Upload zipfile

Upload and convert file

Deactivate task

1) Your first step is to [upload](#) one or more files into this envelope. You can always interrupt your work and continue your contribution at a later time without losing data.

2) Before releasing the envelope to the public, you must run the automatic quality assessment on the data - this will take a few minutes, after which the envelope will be back in Draft mode.

3) Have a careful look at the report from the automatic quality assessment. You are able to check whether your data is correct by looking at the report of errors and the statistics provided by the system. **You can only release the envelope if there are no blocking errors left.**

4) Once you choose Release envelope the automatic quality assessment will be run again on the data. In case of blocking errors, the envelope **will not be released** and remain in Draft status. Otherwise, your envelope will be released and a confirmation of receipt will be issued.

Files in this envelope

No files uploaded

Feedback for this envelope

No feedback posted in this envelope



Upload and convert

This step is only necessary if you want to convert a zipped set of shapefiles.

If you already have GML files, you don't need to do this.

Uploading and converting the updated ZIP file

3

Upload FME convertible

This can either be a zip archive or a single file. The zipfile upload makes it possible for you to add a large number of files in one upload. The zipfile will be uploaded and unwrapped if the Unpack files in the envelope is checked.

File

Choose file

No file chosen

Select the zip file

Restrict all contained files from public view

☐

Unpack files in the envelope

☐

Add

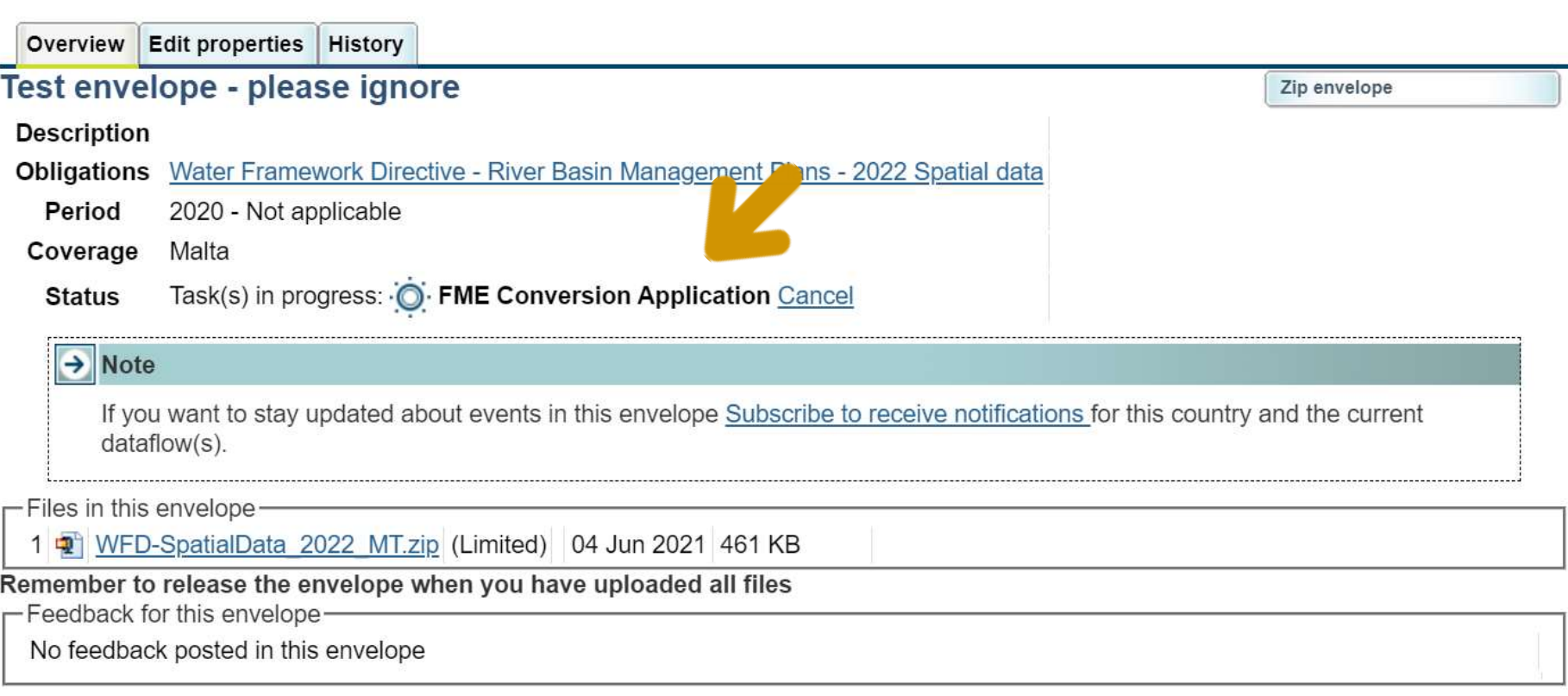
Do not unpack the files.

This step is only necessary if you want to convert a zipped set of shapefiles.


If you already have GML files, you don't need to do this.

Wait for the conversion process to finish...

3




The screenshot shows a web interface for managing a 'Test envelope'. At the top, there are three tabs: 'Overview' (selected), 'Edit properties', and 'History'. The title 'Test envelope - please ignore' is displayed, with a 'Zip envelope' button on the right. The 'Description' section contains the following information:

- Obligations:** [Water Framework Directive - River Basin Management Plans - 2022 Spatial data](#)
- Period:** 2020 - Not applicable
- Coverage:** Malta
- Status:** Task(s) in progress:  **FME Conversion Application** [Cancel](#)

A yellow arrow points to the 'FME Conversion Application' status. Below this is a 'Note' box with a right-pointing arrow icon, containing the text: 'If you want to stay updated about events in this envelope [Subscribe to receive notifications](#) for this country and the current dataflow(s).'

The 'Files in this envelope' section shows a table with one file:

Files in this envelope			
1	 WFD-SpatialData_2022_MT.zip	(Limited)	04 Jun 2021 461 KB

Below the file list, there is a reminder: 'Remember to release the envelope when you have uploaded all files'. The 'Feedback for this envelope' section shows 'No feedback posted in this envelope'.

This step is only necessary if you want to convert a zipped set of shapefiles.

If you already have GML files, you don't need to do this.

The GML files are added to the envelope...

The screenshot shows a web interface for managing a 'Draft delivery'. At the top, there are tabs: 'Overview', 'Draft delivery' (selected), 'Edit properties', 'History', and 'Data quality'. Below the tabs, the 'Draft delivery' section contains four numbered instructions and a list of files in the envelope.

Instructions:

- 1) Your first step is to [upload](#) one or more files into this envelope. You can always interrupt your work and continue your contribution at a later time without losing data.
- 2) Before releasing the envelope to the public, you must [run the automatic quality assessment on the data](#) - this will take a few minutes, after which the envelope will be back in Draft mode.
- 3) Have a careful look at the report from the automatic quality assessment. You are able to check whether your data is correct by looking at the report of errors and the statistics provided by the system. **You can only release the envelope if there are no blocking errors left.**
- 4) Once you choose Release envelope the automatic quality assessment will be run again on the data. In case of blocking errors, the envelope **will not be released** and remain in Draft status. Otherwise, your envelope will be released and a confirmation of receipt will be issued.

Buttons on the right: Add file, Upload zipfile, Upload and convert file, Run automatic QA, Deactivate task.

Files in this envelope:

File Name	Date	Size	Run QA #1	Run QA #2
GroundWaterBody.gml	04 Jun 2021	332 KB	Run QA #1	Run QA #2
MonitoringSite.gml	04 Jun 2021	260 KB	Run QA #1	Run QA #2
RiverBasinDistrict.gml	04 Jun 2021	7.20 KB	Run QA #1	Run QA #2
SubUnit.gml	04 Jun 2021	7.42 KB	Run QA #1	Run QA #2
SurfaceWaterBody.gml	04 Jun 2021	1.05 MB	Run QA #1	Run QA #2
WFD-SpatialData_2022_MT.zip (Limited)	04 Jun 2021	461 KB		

Buttons below the table: Rename, Cut, Copy, Delete.

Feedback for this envelope:

[FMEConversion results](#) (Posted automatically on 04 Jun 2021)

This step is only necessary if you want to convert a zipped set of shapefiles.

If you already have GML files, you don't need to do this.

You may now rename files if necessary...

The screenshot shows the 'Draft delivery' tab of a web application. It includes instructions for uploading files, running quality assessments, and releasing the envelope. A table lists files in the envelope, and a 'Rename Items' dialog box is open, showing the renaming process for several files.

Overview **Draft delivery** Edit properties History Data quality

Draft delivery

1) Your first step is to [upload](#) one or more files into this envelope. You can always interrupt your work and continue your contribution at a later time without losing data.

2) Before releasing the envelope to the public, you must [run the automatic quality assessment on the data](#) - this will take a few minutes, after which the envelope will be back in Draft mode.

3) Have a careful look at the report from the automatic quality assessment. You are able to check whether your data is correct by looking at the report of errors and the statistics provided by the system. **You can only release the envelope if there are no blocking errors left.**

4) Once you choose Release envelope the automatic quality assessment will be run again on the data. In case of blocking errors, the envelope **will not be released** and remain in Draft status. Otherwise, your envelope will be released and a confirmation of receipt will be issued.

Files in this envelope—

<input checked="" type="checkbox"/>	File Name	Original Name	Date	Size	Run QA #1	Run QA #2
<input checked="" type="checkbox"/>	GroundWaterBody.gml	GroundWaterBody.gml	04 Jun 2021	332 KB	Run QA #1	Run QA #2
<input checked="" type="checkbox"/>	MonitoringSite.gml	MonitoringSite.gml	04 Jun 2021	260 KB	Run QA #1	Run QA #2
<input checked="" type="checkbox"/>	RiverBasinDistrict.gml	RiverBasinDistrict.gml	04 Jun 2021	7.20 KB	Run QA #1	Run QA #2
<input checked="" type="checkbox"/>	SubUnit.gml	SubUnit.gml	04 Jun 2021	7.42 KB	Run QA #1	Run QA #2
<input checked="" type="checkbox"/>	SurfaceWaterBody.gml	SurfaceWaterBody.gml	04 Jun 2021	1.05 MB	Run QA #1	Run QA #2
<input type="checkbox"/>	WFD-SpatialData_2022_MT.zip (Limited)		04 Jun 2021	461 KB		

Rename Cut Copy Delete

Feedback for this envelope—

[FMEConversion results](#) (Posted automatically on 04 Jun 2021)

Rename Items

<input checked="" type="checkbox"/> GroundWaterBody.gml	to:	GroundWaterBody_MT_20210601.gml
<input checked="" type="checkbox"/> MonitoringSite.gml	to:	MonitoringSite_MT_20210601.gml
<input checked="" type="checkbox"/> RiverBasinDistrict.gml	to:	RiverBasinDistrict_MT_20210601.gml
<input checked="" type="checkbox"/> SubUnit.gml	to:	SubUnit_MT_20210601.gml
<input checked="" type="checkbox"/> SurfaceWaterBody.gml	to:	SurfaceWaterBody_MT_20210601.gml

Ok Cancel

You may now run the Quality Control...

3

The screenshot shows a web interface with tabs: Overview, Draft delivery (selected), Edit properties, History, and Data quality. The 'Draft delivery' section contains instructions and a list of files. A yellow box highlights the 'Run QA #1' and 'Run QA #2' buttons for each file, with a yellow arrow pointing to them from below.

Draft delivery

1) Your first step is to [upload](#) one or more files into this envelope. You can always interrupt your work and continue your contribution at a later time without losing data.

2) Before releasing the envelope to the public, you must [run the automatic quality assessment on the data](#) - this will take a few minutes, after which the envelope will be back in Draft mode.

3) Have a careful look at the report from the automatic quality assessment. You are able to check whether your data is correct by looking at the report of errors and the statistics provided by the system. **You can only release the envelope if there are no blocking errors left.**

4) Once you choose Release envelope the automatic quality assessment will be run again on the data. In case of blocking errors, the envelope **will not be released** and remain in Draft status. Otherwise, your envelope will be released and a confirmation of receipt will be issued.

Files in this envelope

<input type="checkbox"/>	File Name	Original Name	Date	Size	Run QA #1	Run QA #2
<input type="checkbox"/>	GroundWaterBody_MT_20210601.gml	GroundWaterBody.gml	04 Jun 2021	332 KB	Run QA #1	Run QA #2
<input type="checkbox"/>	MonitoringSite_MT_20210601.gml	MonitoringSite.gml	04 Jun 2021	260 KB	Run QA #1	Run QA #2
<input type="checkbox"/>	RiverBasinDistrict_MT_20210601.gml	RiverBasinDistrict.gml	04 Jun 2021	7.20 KB	Run QA #1	Run QA #2
<input type="checkbox"/>	SubUnit_MT_20210601.gml	SubUnit.gml	04 Jun 2021	7.42 KB	Run QA #1	Run QA #2
<input type="checkbox"/>	SurfaceWaterBody_MT_20210601.gml	SurfaceWaterBody.gml	04 Jun 2021	1.05 MB	Run QA #1	Run QA #2
<input type="checkbox"/>	WFD-SpatialData_2022_MT.zip	(Limited)	04 Jun 2021	461 KB	Run QA #1	Run QA #2

[Rename](#) [Cut](#) [Copy](#) [Delete](#)

Feedback for this envelope

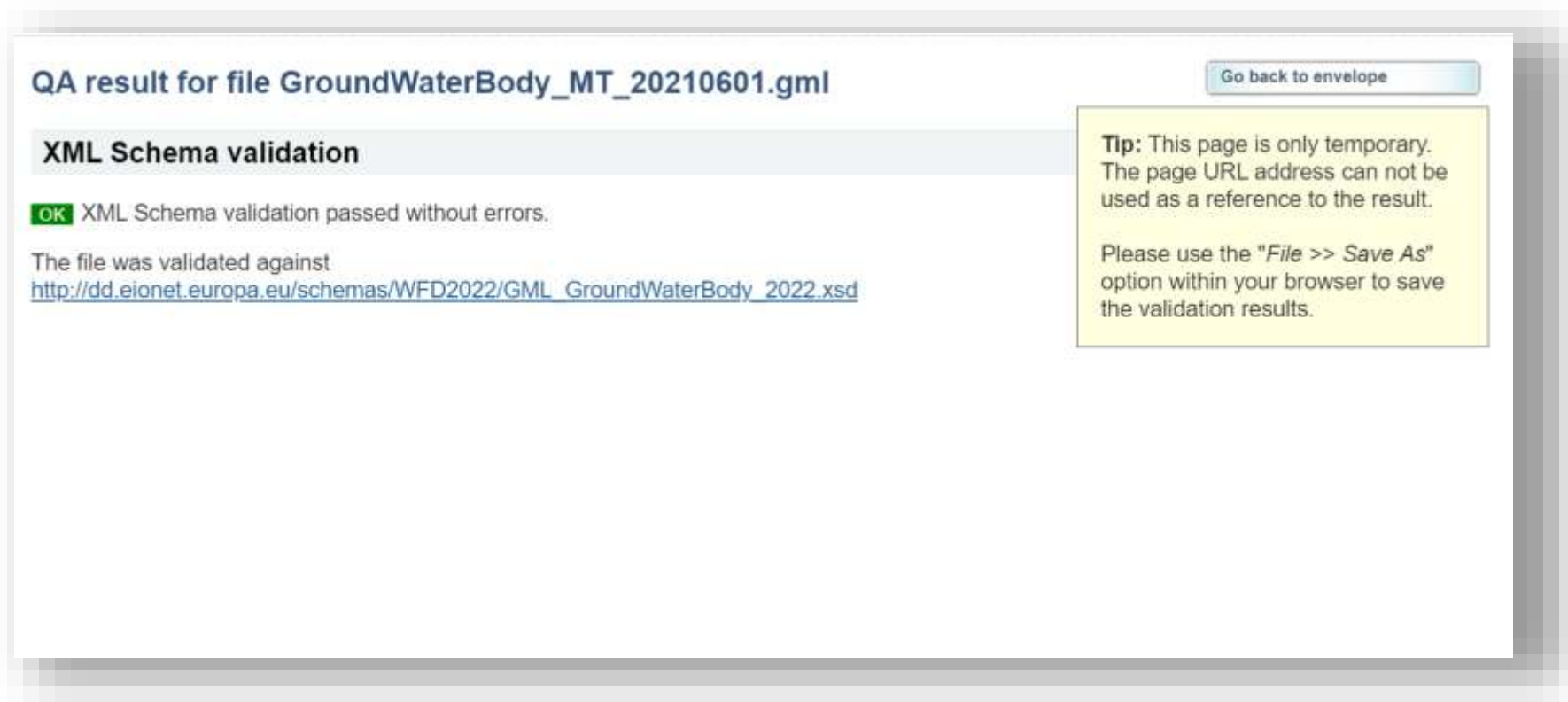
[FMEConversion_results](#) (Posted automatically on 04 Jun 2021)

Start with the XML schema checks.

XML schema validation

3

The structure of the GML file must be correct before it can be imported into the database, and additional validations can be run.



QA result for file GroundWaterBody_MT_20210601.gml

[Go back to envelope](#)

XML Schema validation

OK XML Schema validation passed without errors.

The file was validated against
http://dd.eionet.europa.eu/schemas/WFD2022/GML_GroundWaterBody_2022.xsd

Tip: This page is only temporary.
The page URL address can not be used as a reference to the result.

Please use the "File >> Save As" option within your browser to save the validation results.

Correcting XML schema errors

If you used the prefilled shapefiles and the CDR conversion process, any schema errors are likely due to missing values.

QA result for file[Go back to envelope](#)

XML Schema validation

BLOCKER The file does not conform to the data model defined in the XML Schema and blocks your submission. The XML Schema data model specifies the element names, document structure and data types.

The file was validated against
http://dd.elonet.europa.eu/schemas/WFD2022/GML_RiverBasinDistrict_2022.xsd

The following table lists the contradictions in document structure, elements using wrong data types or missing mandatory values.

Type	Position	Error message
ERROR	Line: 15, Col: 37	cvc-pattern-valid: Value " is not facet-valid with respect to pattern '(\p{L}){0-9}{1}{0,253}' for type 'String254LeadingLetterOrNum'.
ERROR	Line: 15, Col: 37	cvc-type.3.1.3: The value " of element 'wfdgml:inspireIdNamespace' is not valid.
ERROR	Line: 47, Col: 37	cvc-pattern-valid: Value " is not facet-valid with respect to pattern '(\p{L}){0-9}{1}{0,253}' for type 'String254LeadingLetterOrNum'.
ERROR	Line: 47, Col: 37	cvc-type.3.1.3: The value " of element 'wfdgml:inspireIdNamespace' is not valid.
ERROR	Line: 79, Col: 37	cvc-pattern-valid: Value " is not facet-valid with respect to pattern '(\p{L}){0-9}{1}{0,253}' for type 'String254LeadingLetterOrNum'.
ERROR	Line: 79, Col: 37	cvc-type.3.1.3: The value " of element 'wfdgml:inspireIdNamespace' is not valid.

Tip: This page is only temporary. The page URL address can not be used as a reference to the result.

Please use the "File >> Save As" option within your browser to save the validation results.

Correcting XML schema errors

The Reportnet guidance contains an annex with the list of the most important errors.

Correct those first.

Error messages



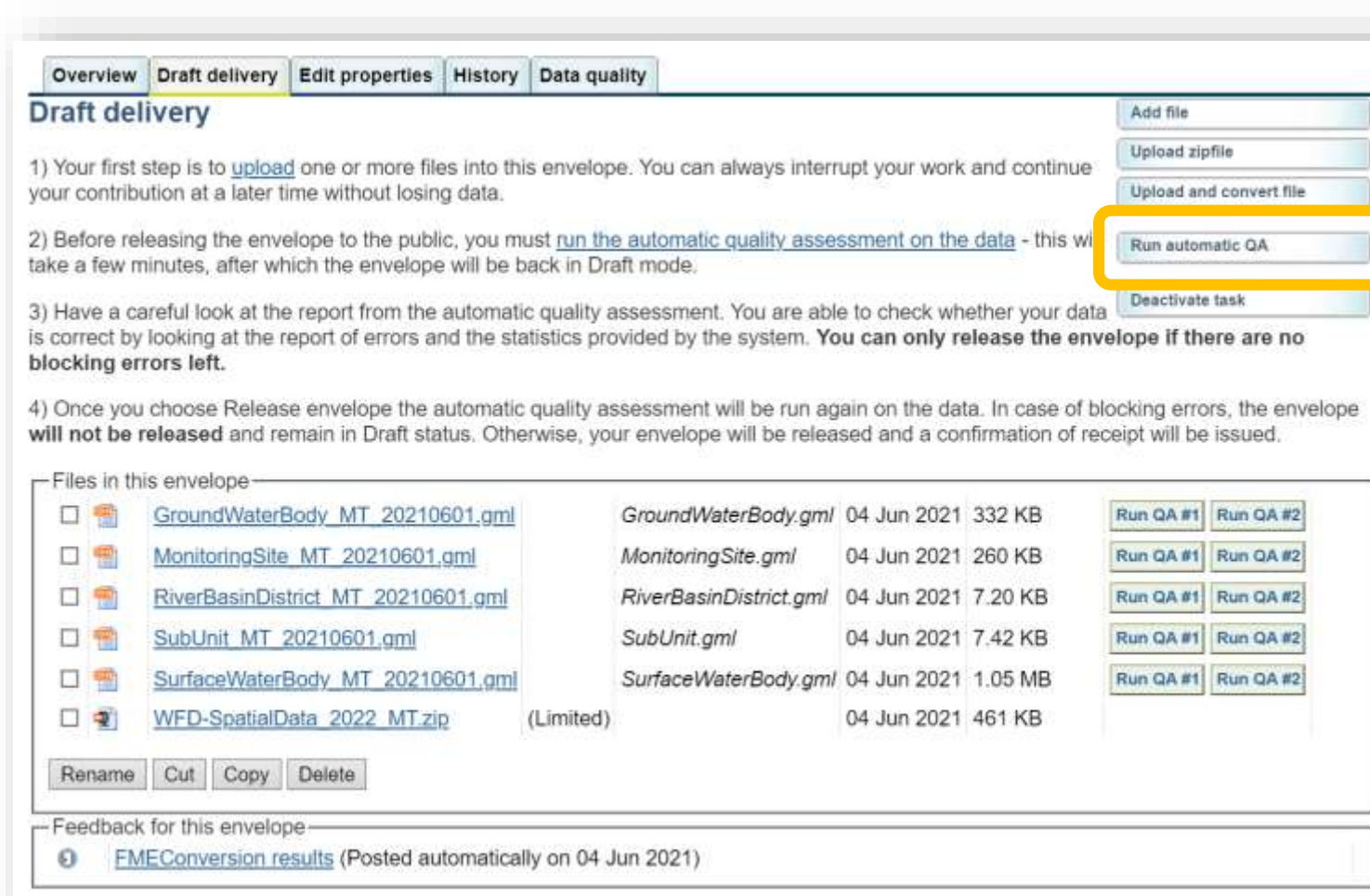
WISE_Reportnet2_Guidance.pdf 13 / 15 76%

Annex - XML Schema validation messages

Schema validation message	Issue description
cc-type:3.1.3: The value of element 'wfdgm:inspireid:localid' is not valid.	The inspireid:localid value must be a non-empty string with less than 255 characters.
cc-type:3.1.3: The value of element 'wfdgm:inspireid:namespace' is not valid.	The inspireid:namespace value must be a non-empty string with less than 255 characters.
cc-type:3.1.3: The value of element 'wfdgm:inspireid:versionid' is not valid.	The inspireid:versionid value must be a non-empty string with less than 25 characters.
cc-type:3.1.3: The value of element 'wfdgm:thematicid:identifier' is not valid.	The thematicid:identifier value must be a string starting with the 2-letter country code. Upper case letters (A to Z) and digits (0 to 9) are allowed in the remaining part (the hyphen and the underscore can be used as non-consecutive separators).
cc-type:3.1.3: The value of element 'wfdgm:thematicid:identifierScheme' is not valid.	The thematicid:identifierScheme value is not valid (see http://cdr.eionet.europa.eu/vocabulary/wise/IdentifierScheme).
cc-type:3.1.3: The value of element 'wfdgm:hydroid:localid' is not valid.	The hydroid:localid value must be a non-empty string with less than 255 characters.
cc-type:3.1.3: The value of element 'wfdgm:hydroid:namespace' is not valid.	The hydroid:namespace value must be a non-empty string with less than 255 characters.
cc-type:3.1.3: The value of element 'wfdgm:begin:respansionVersion' is not valid.	The begin:respansionVersion value must be a valid date in the ISO 8601 extended format value (e.g. YYYY-MM, YYYY-MM-DD).
cc-type:3.1.3: The value of element 'wfdgm:end:respansionVersion' is not valid.	The end:respansionVersion value must be a valid date in the ISO 8601 extended format value (e.g. YYYY-MM, YYYY-MM-DD).
cc-type:3.1.3: The value of element 'wfdgm:predecessorid:identifier' is not valid.	The predecessorid:identifier value must be a string starting with the 2-letter country code. Upper case letters (A to Z) and digits (0 to 9) are allowed in the remaining part (the hyphen and the underscore can be used as non-consecutive separators).
cc-type:3.1.3: The value of element 'wfdgm:predecessorid:identifierScheme' is not valid.	The predecessorid:identifierScheme value is not valid (see http://cdr.eionet.europa.eu/vocabulary/wise/IdentifierScheme).
cc-type:3.1.3: The value of element 'wfdgm:successorid:identifier' is not valid.	The successorid:identifier value must be a string starting with the 2-letter country code. Upper case letters (A to Z) and digits (0 to 9) are allowed in the remaining part (the hyphen and the underscore can be used as non-consecutive separators).
cc-type:3.1.3: The value of element 'wfdgm:successorid:identifierScheme' is not valid.	The successorid:identifierScheme value is not valid (see http://cdr.eionet.europa.eu/vocabulary/wise/IdentifierScheme).
cc-type:3.1.3: The value of element 'wfdgm:supersedesid:identifier' is not valid.	The supersedesid:identifier value must be a string starting with the 2-letter country code. Upper case letters (A to Z) and digits (0 to 9) are allowed in the remaining part (the hyphen and the underscore can be used as non-consecutive separators).
cc-type:3.1.3: The value of element 'wfdgm:supersedesid:identifierScheme' is not valid.	The supersedesid:identifierScheme value is not valid (see http://cdr.eionet.europa.eu/vocabulary/wise/IdentifierScheme).
cc-type:3.1.3: The value of element 'wfdgm:supersededbyid:identifier' is not valid.	The supersededbyid:identifier value must be a string starting with the 2-letter country code. Upper case letters (A to Z) and digits (0 to 9) are allowed in the remaining part (the hyphen and the underscore can be used as non-consecutive separators).
cc-type:3.1.3: The value of element 'wfdgm:supersededbyid:identifierScheme' is not valid.	The supersededbyid:identifierScheme value is not valid (see http://cdr.eionet.europa.eu/vocabulary/wise/IdentifierScheme).

You may now run the full automatic QC...

3



The screenshot shows a web interface for managing data envelopes. The 'Draft delivery' tab is active. On the right, a vertical list of buttons includes 'Add file', 'Upload zipfile', 'Upload and convert file', 'Run automatic QA' (highlighted with a yellow box), and 'Deactivate task'. A large yellow arrow points from the right towards the 'Run automatic QA' button. The main content area contains four numbered instructions regarding file uploads, quality assessment, and envelope release. Below the instructions is a table titled 'Files in this envelope' listing five files with their names, original names, dates, and sizes. Each file has two buttons: 'Run QA #1' and 'Run QA #2'. At the bottom, there are buttons for 'Rename', 'Cut', 'Copy', and 'Delete', and a feedback section showing a link to 'FMEConversion results'.

Overview **Draft delivery** Edit properties History Data quality

Draft delivery

1) Your first step is to [upload](#) one or more files into this envelope. You can always interrupt your work and continue your contribution at a later time without losing data.

2) Before releasing the envelope to the public, you must [run the automatic quality assessment on the data](#) - this will take a few minutes, after which the envelope will be back in Draft mode.

3) Have a careful look at the report from the automatic quality assessment. You are able to check whether your data is correct by looking at the report of errors and the statistics provided by the system. **You can only release the envelope if there are no blocking errors left.**

4) Once you choose Release envelope the automatic quality assessment will be run again on the data. In case of blocking errors, the envelope **will not be released** and remain in Draft status. Otherwise, your envelope will be released and a confirmation of receipt will be issued.

Buttons on the right: Add file, Upload zipfile, Upload and convert file, **Run automatic QA**, Deactivate task

Files in this envelope

<input type="checkbox"/>	File Name	Original Name	Date	Size	Run QA #1	Run QA #2
<input type="checkbox"/>	GroundWaterBody_MT_20210601.gml	GroundWaterBody.gml	04 Jun 2021	332 KB	Run QA #1	Run QA #2
<input type="checkbox"/>	MonitoringSite_MT_20210601.gml	MonitoringSite.gml	04 Jun 2021	260 KB	Run QA #1	Run QA #2
<input type="checkbox"/>	RiverBasinDistrict_MT_20210601.gml	RiverBasinDistrict.gml	04 Jun 2021	7.20 KB	Run QA #1	Run QA #2
<input type="checkbox"/>	SubUnit_MT_20210601.gml	SubUnit.gml	04 Jun 2021	7.42 KB	Run QA #1	Run QA #2
<input type="checkbox"/>	SurfaceWaterBody_MT_20210601.gml	SurfaceWaterBody.gml	04 Jun 2021	1.05 MB	Run QA #1	Run QA #2
<input type="checkbox"/>	WFD-SpatialData_2022_MT.zip	(Limited)	04 Jun 2021	461 KB		

Buttons: Rename, Cut, Copy, Delete

Feedback for this envelope: [FMEConversion results](#) (Posted automatically on 04 Jun 2021)

Reviewing the QC results...

Click this tab



Overview Draft delivery Edit properties History **Data quality**

Results of automatic data quality checks

This page displays summary information from all automatic data quality checks for this envelope. If you want to see more detailed results, just follow the "Show more.." links to the individual feedback items.

GroundWaterBody_MT_20210501.gml

- **INFO:** GroundWaterBody Import and Checks [Show more...](#)
- **INFO:** XML Schema validation passed without errors. [Show more...](#)

MonitoringSite_MT_20210501.gml

- **INFO:** MonitoringSite Import and Checks [Show more...](#)
- **INFO:** XML Schema validation passed without errors. [Show more...](#)

RiverBasinDistrict_MT_20210501.gml

- **INFO:** RiverBasinDistrict Import and Checks [Show more...](#)
- **INFO:** XML Schema validation passed without errors. [Show more...](#)

SubUnit_MT_20210501.gml

- **INFO:** SubUnit Import and Checks [Show more...](#)
- **INFO:** XML Schema validation passed without errors. [Show more...](#)

SurfaceWaterBody_MT_20210501.gml

- **WARNING:** The quality control found 2 warnings - the records should be reviewed. [Show more...](#)
- **INFO:** XML Schema validation passed without errors. [Show more...](#)

Envelope test

- **BLOCKER:** The quality control found 165 blockers - the critical issues must be corrected. [Show more...](#)
- **BLOCKER:** The quality control found 6 blockers - the critical issues must be corrected. [Show more...](#)
- **INFO:** WFD 2022 Inspire Metadata Harvest and Checks [Show more...](#)

Review these **WARNINGS**
and correct them if possible



All **BLOCKERS**
need to be corrected



Correcting WARNINGS

3

Number of issues



Description
of each issue



List of the
first 250 issues



Feedback: AutomaticQA result for file SurfaceWaterBody_MT_20210501.gml: SurfaceWaterBody Import and Checks

[Back to envelope](#)

Subject: AutomaticQA result for file SurfaceWaterBody_MT_20210501.gml: SurfaceWaterBody Import and Checks
Posted automatically on: 02 Jun 2021 11:06
Task: Automatic quality assessment
Referred file: [SurfaceWaterBody_MT_20210501.gml](#)
Attached files: [gml_checks.csv](#) [download](#)
Feedback status: WARNING
Feedback message: The quality control found 2 warnings - the records should be reviewed.



Download the full list (if there are more than 250 issues)

SurfaceWaterBody validation

Type	Blockers	Errors	Warnings	Total
Count	0	0	2	2

> Summary

Type	Code	Issue description	Count
Warning	RCS1A	Data providers reporting under WISE SoE must report the meanDepth value for lakes and standing water bodies.	2

Showing 1 to 1 of 1 entries

◀ Previous 1 Next

> GML QC Checks (the table shows a maximum of 250 issues)

Type	Code	Identifier	Where	Value	Issue
Warning	RCS1A	euSurfaceWaterBodyCode.MTSW02	meanDepth		Data providers report
Warning	RCS1A	euSurfaceWaterBodyCode.MTSW01	meanDepth		Data providers report

Showing 1 to 2 of 2 entries

◀ Previous 1 Next

Correcting ERRORS

Some errors may prevent the data from being correctly imported or used.

If na envelope has errors it will be analysed during the Final Feedback phase, and a resubmission may be requested.



Cross and Spatial validation

Type	Blockers	Errors	Warnings	Total
Count	0	2	22	24

> Summary

Type	Code	Issue description	Count
Error	SA03A	The geometry must not have anomalous geometric points, such as self-intersections.	2
Warning	RC46A	Data providers reporting under WISE SoE must report the catchmentArea value for monitoring sites located in rivers.	3
Warning	SS07	The geometry of the monitoring site must be covered by or be within 200 metre of the geometry of the associated water body.	2
Warning	RR16	If a groundwater body has different horizons, each horizon should be reported.	15
Warning	SB03A	The river basin district must be within the national territory (with a 200 metre tolerance buffer).	1
Warning	DC11	The SurfaceWaterBodyCentreline file should be reported, if the SurfaceWaterBody file contains lakes or transitional waters.	1

Showing 1 to 6 of 6 entries

Previous 1 Next

Correcting BLOCKERS

Feedback: AutomaticQA result for: WFD 2022 Envelope Checks

[Back to envelope](#)

Subject:	AutomaticQA result for: WFD 2022 Envelope Checks
Posted automatically on:	02 Jun 2021 11:06
Task:	Automatic quality assessment
Attached files:	envelopeChecks.csv [download]
Feedback status:	BLOCKER
Feedback message:	The quality control found 6 blockers - the critical issues must be corrected.

Envelope validation

Type	Blockers	Errors	Warnings	Total
Count	6	0	5	11

> Summary

Type	Code	Issue description	Count
Blocker	DC07	Either the ProtectedArea file, the ProtectedAreaLine file or the ProtectedAreaPoint file should be reported.	1
Blocker	DI05A	Both the INSPIRE metadata file and the GML file should be reported.	1
Blocker	DI01A	Both the INSPIRE metadata file and the GML file should be reported.	1
Blocker	DI06A	Both the INSPIRE metadata file and the GML file should be reported.	1
Blocker	DI02A	Both the INSPIRE metadata file and the GML file should be reported.	1
Blocker	DI03A	Both the INSPIRE metadata file and the GML file should be reported.	1
Warning	DP10	GML file for this feature type is missing in the envelope.	1
Warning	DP09	GML file for this feature type is missing in the envelope.	1
Warning	DP11	GML file for this feature type is missing in the envelope.	1
Warning	DP08	GML file for this feature type is missing in the envelope.	1

The ProtectedArea files are missing



The metadata files are missing































Some optional files may be missing



You can upload & convert more than one ZIP file...

- For example, the ProtectedArea prefilled shapefiles can be downloaded from the [WISE restricted access area](https://forum.eionet.europa.eu/x_wise-reporting/library/restricted_distribution).
- The shapefiles can be updated, zipped, uploaded to envelope and converted to GML, using the process described before.

<input type="checkbox"/>	Type	Title	Restrictions
<input type="checkbox"/>		BWD_ProtectedArea_2018_MT 	
<input type="checkbox"/>		BWD_ProtectedArea_2019_MT 	
<input type="checkbox"/>		BW_MT_2018 	
<input type="checkbox"/>		BW_MT_2019 	
<input type="checkbox"/>		CountryBoundaries 	
<input type="checkbox"/>		EIONET-SpatialData_MT 	
<input type="checkbox"/>		MT_2018-10-17T09:36:39_Prefilled_PoM_2018 	
<input type="checkbox"/>		MT_2018-10-17T10:03:47_Prefilled_EQS_2018 	
<input type="checkbox"/>		UWWTD_ProtectedArea_2016_MT 	
<input type="checkbox"/>		UWWTD_SensitiveAreas_2016_MT 	
<input type="checkbox"/>		WFD-SpatialData_2010_MT 	
<input type="checkbox"/>		WFD-SpatialData_2016_MT 	
<input type="checkbox"/>		WFD2010-SpatialData-MT 	
<input type="checkbox"/>		WFD_ProtectedArea_2016_MT 	

Reporting the metadata

- Each data set must be accompanied by an INSPIRE compliant metadata file.
- The structure of the files has not changed:
 - You may update the metadata delivered in 2016, if you wish.
 - Or you may create a new file in an appropriate metadata editor.
- The [WISE GIS Guidance](#) provides additional information on the metadata files.

It is very important to report clearly the useLimitations 

Report the useLimitation clearly

2.9.2 Conditions applying to access and use [Mandatory]

Conditions for access and use of spatial data sets and services, and where applicable, corresponding fees as required by Article 5(2)(b) and Article 11(2)(f) of INSPIRE Directive 2007/2/EC


TG Requirement 33

If no conditions apply to the access and use of the resource, 'no conditions apply' shall be used. If conditions are unknown, 'conditions unknown' shall be used.

TG Requirement 34

Descriptions of terms and conditions, including where applicable, the corresponding fees shall be provided through this element or a link (URL) where these terms and conditions are described.

TG Recommendation 22

For detailed information it is recommended to provide a link to a license type (e.g. <http://creativecommons.org/licenses/by/3.0> ) , a website or to a document containing the necessary information.

Report the useLimitation clearly

The easier way to report a licence is to select a URL chosen from the provided set of standard public licences, which have a known set of standard permissions, prohibitions and requirements.

- <https://creativecommons.org/publicdomain/zero/1.0/>
- <https://creativecommons.org/publicdomain/mark/1.0/>
- <https://creativecommons.org/licenses/by/4.0/>

Warning: the following licences are **not compatible** with CC BY and must not be used:

- <https://creativecommons.org/licenses/by-sa/4.0/>
- <https://creativecommons.org/licenses/by-nc/4.0/>
- <https://creativecommons.org/licenses/by-nc-sa/4.0/>
- <https://creativecommons.org/licenses/by-nd/4.0/>
- <https://creativecommons.org/licenses/by-nc-nd/4.0/>

If the QC fails...

3

Overview Edit properties History **Data quality**

Results of automatic data quality checks

This page displays summary information from all automatic data quality checks for this envelope. If you want to see more detailed results, just follow the "Show more.." links to the individual feedback items.

GroundWaterBody_MT_20210601.gml

- **INFO:** GroundWaterBody Import and Checks [Show more...](#)
- **INFO:** XML Schema validation passed without errors. [Show more...](#)

MonitoringSite_MT_20210601.gml

- **INFO:** MonitoringSite Import and Checks [Show more...](#)
- **INFO:** XML Schema validation passed without errors. [Show more...](#)

RiverBasinDistrict_MT_20210601.gml

- **BLOCKER:** The QC process failed. The id in the FME server is # [redacted]. Please try again. If the issue persists please contact the dataflow helpdesk. Exception message is: Received status code 405 for folder downloading [Show more...](#)
- **INFO:** XML Schema validation passed without errors. [Show more...](#)

SubUnit_MT_20210601.gml

- **INFO:** SubUnit Import and Checks [Show more...](#)
- **INFO:** XML Schema validation passed without errors. [Show more...](#)

The QC processes may fail due to limited communication or processing capacity of one of the different systems involved. If this happens, please run the QC again. Contact wfd.helpdesk if the error persists. Always send the link to the envelope.

Releasing the envelope

*When all the BLOCKERS are corrected, the envelope can be released.
The technical team will review it and provide the Final Feedback.*

Overview

Draft delivery

Edit properties

History

Data quality

Draft delivery

1) Your first step is to [upload](#) one or more files into this envelope. You can always interrupt your work and continue your contribution at a later time without losing data.

2) Before releasing the envelope to the public, you must [run the automatic quality assessment on the data](#) - this will take a few minutes, after which the envelope will be back in Draft mode.

3) Have a careful look at the report from the automatic quality assessment. You are able to check whether your data is correct by looking at the report of errors and the statistics provided by the system. **You can only release the envelope if there are no blocking errors left.**

4) Once you choose [Release envelope](#) the automatic quality assessment will be run again on the data. In case of blocking errors, the envelope **will not be released** and remain in Draft status. Otherwise, your envelope will be released and a confirmation of receipt will be issued.

Add file

Upload zipfile

Upload and convert file

Run automatic QA


Release envelope

Deactivate task



Consolidation between WISE-5 data & WFD data

4

- Spatial data are reported to WISE under two data flows:
 - The [WFD spatial data flow](#) (countries reporting under WFD)
 - The EIONET [WISE-5 spatial data](#) (for other EIONET countries)
- The data model is the same.
- Countries reporting under WFD should use the WFD data flow only! 
- Only in exceptional cases can the EIONET WISE-5 flow be used.
 - EIONET water bodies that are not WFD water bodies (for example, very small lakes below the WFD threshold for waterbodies), **if and only if time series are being reported under WISE-6 Water Quality.**
 - EIONET reservoirs that are part of the same WFD waterbody,), **if and only if time series are being reported under WISE-3 Water Quantity.**

Examples



Type	Geometry	AT	BE	BG	CY	CZ	DE	DK	EE	EL	ES	FI	FR	HR	HU	IE	IT	LT	LU	LV	MT	NL	PL	PT	RO	SE	SI	SK	IS	NO	Total
eionetSurfaceWaterBodyCode	Missing				9															3											12
	Point	20						1				11			12	1		11		1	1				2	46				10	116
	Polyline		5						1								9									1					16
	Polygon		6						1								7														14
eionetGroundWaterBodyCode	Missing			2			36	1		233				23						3											298
	Point					4	5	2					2										3			1			1		18
	Polygon																2														2
eionetMonitoringSiteCode	Missing				1																										1
	Point	20	116	45	24	4		46	226	17	2	3	61	30		32	2981	6	1	28		237	3718		17	106	203			13	7936
	Total	40	127	47	34	8	41	50	228	250	2	14	63	53	12	33	2999	17	1	35	1	237	3718	3	19	154	203	0	1	23	8413

- Slovakia:
 - Zero EIONET objects used in the WISE SoE reporting.
 - No need to report under WISE-5.

Examples



Type	Geometry	AT	BE	BG	CY	CZ	DE	DK	EE	EL	ES	FI	FR	HR	HU	IE	IT	LT	LU	LV	MT	NL	PL	PT	RO	SE	SI	SK	IS	NO	Total
eionetSurfaceWaterBodyCode	Missing				9															3											12
	Point	20						1				11			12	1		11		1	1				2	46				10	116
	Polyline		5						1								9									1					16
	Polygon		6						1								7														14
eionetGroundWaterBodyCode	Missing			2			36	1		233				23						3											298
	Point					4	5	2					2											3		1			1		18
	Polygon																2														2
eionetMonitoringSiteCode	Missing				1																										1
	Point	20	116	45	24	4		46	226	17	2	3	61	30		32	2981	6	1	28			237	3718		17	106	203		13	7936
	Total	40	127	47	34	8	41	50	228	250	2	14	63	53	12	33	2999	17	1	35	1	237	3718	3	19	154	203	0	1	23	8413

- Iceland:

- Only one remaining groundwater body (eionetGroundWaterBodyCode.ISBLAFJOLL).
- It was used before 2013, but no geometry is available.
- If possible, under WISE-5:
 - Report the geometry, and set wiseEvolutionType = deletion;
 - Or report the code of the WFD water body that replaced it, and set wiseEvolutionType = deletion;
 - Or simply contact wisoesoe.helpdesk and inform that all EIONET objects should be retired and that no WISE-5 reporting will be done.

Similar cases: Germany, Hungary, Malta, Portugal

Examples



Type	Geometry	AT	BE	BG	CY	CZ	DE	DK	EE	EL	ES	FI	FR	HR	HU	IE	IT	LT	LU	LV	MT	NL	PL	PT	RO	SE	SI	SK	IS	NO	Total
eionetSurfaceWaterBodyCode	Missing				9															3											12
	Point	20						1				11			12	1		11		1	1				2	46				10	116
	Polyline		5						1								9									1					16
	Polygon		6						1								7														14
eionetGroundWaterBodyCode	Missing			2			36	1		233				23						3											298
	Point					4	5	2					2										3		1				1		18
	Polygon																2														2
eionetMonitoringSiteCode	Missing				1																										1
	Point	20	116	45	24	4		46	226	17	2	3	61	30		32	2981	6	1	28		237	3718		17	106	203			13	7936
	Total	40	127	47	34	8	41	50	228	250	2	14	63	53	12	33	2999	17	1	35	1	237	3718	3	19	154	203	0	1	23	8413

- Luxembourg:

- Only one remaining monitoring site (eionetMonitoringSiteCode.LUL299001A37).
- It is monitoring a WFD waterbody.
- If the site & waterbody still exist:
 - If the site was reported already under WFD using a different code, report the code of the WFD site that replaced it, and set wiseEvolutionType = deletion;
 - If the site was never reported under WFD, then report it now in the 3rd RBMP, as euMonitoringSiteCode.LUL299001A37 and contact wisoes.helpdesk to inform that no WISE-5 reporting will be done.

Similar cases: Spain, Netherlands, Poland

Other countries reporting under WFD

- The vast majority of cases are similar to the ones described in the previous slides.
- Please take the opportunity to consolidate the old EIONET data with the WFD data, so that no further WISE-5 reporting is ever needed.
- Contact wisesoe.helpdesk if you need clarification on specific cases.
- The procedure to report under WISE-5 is identical to that of WFD.
- Specific prefill shapefile also exist.
- (and there will be a webinar on next week)

Q&A

5