



**Black Sea Checkpoint  
Annex 3 to the Second DAR:  
Statistics of Availability indicators**

Total number of pages: 191

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## 1. Introduction

The Annex 3 is providing the analysis of availability indicators for all P02 characteristics by challenge. In order to provide a visual indication of the input data availability for each P02 characteristics, a coloured table for each indicator has been produced for each Challenge. This assessment is done on the entire Black Sea metadatabase, not only for the selected input data sets chosen to make the Challenge products. The input data sources selected for each P02 characteristics in the Challenges are different and can have different availability indicators.

Color code meaning for the different indicators is:

- **Red:** urgent actions are required to provide datasets and services fitting for use – **totally inadequate** (
- **Yellow:** limited actions are required to provide datasets and services fitting for use – **partly adequate** (
- **Green:** actions and services are fit for use and should be maintained – **fully adequate** (

The color code refers to selected values for each indicator, detailed in Table 3.1 below.

Name of indicator	Indicator values and meaning
<b>AV-VI-1- Easily found</b>	<p><b>“Red”:</b> <i>"Cited in peer reviewed paper or grey literature but no info on how to access" or "Information retrieved upon specific request to the data source"</i></p> <p><b>“Yellow”:</b> <i>"Use of social network, community of practices sharing information, Portals of organization where no search is organized by an engine"</i></p> <p><b>“Green”:</b> <i>"Use of open search engines, searching by the name of either the data provider or the characteristics" or "Search via a reference catalogue is possible"</i></p>
<b>AV-VI-2-INSPIRE Catalogue service</b>	<p><b>“Red”:</b> <i>"Data sets are not referenced in a catalogue or are referenced in a non public catalogue"</i></p> <p><b>“Yellow”:</b> <i>"The datasets are referenced in a public national catalogue, in an international catalogue service "</i></p> <p><b>“Green”:</b> <i>"The datasets provide a full EU INSPIRE catalogue service "</i></p>
<b>AV-AC-1- Policy visibility</b>	<p><b>“Red”:</b> <i>"There is no information at all on data policy adopted by data providers"</i></p> <p><b>“Yellow”:</b> <i>"There is information, but details are available only on request"</i></p> <p><b>“Green”:</b> <i>"There is detailed information provided to understand data policy"</i></p>
<b>AV-AC-2- Delivery mechanism</b>	<p><b>“Red”:</b> <i>"No information was found on data delivery mechanisms" or "Order form/invoice is requested"</i></p> <p><b>“Yellow”:</b> <i>"Online downloading services "</i></p>

Name of indicator	Indicator values and meaning
	<b>“Green”:</b> <i>"Online discovery and downloading services" or "Online discovery + downloading + viewing services (Advanced services)"</i>
AV-AC-3- Data Policy	<b>“Red”:</b> <i>"Not or not well documented"</i> <b>“Yellow”:</b> <i>"Restricted"</i> <b>“Green”:</b> <i>"Unrestricted"</i>
AV-AC-4- Pricing	<b>“Red”:</b> <i>"Not or not well documented" or "Commercial cost charge"</i> <b>“Yellow”:</b> <i>"Distribution charge" or "Collection charge" or "Free of charge for academic institutions and uses"</i> <b>“Green”:</b> <i>"Open and Free, No charge"</i>
AV-AC-5- Readiness	<b>“Red”:</b> <i>"Format not or not well documented" or "Proprietary format and not well documented " or "Not proprietary format but content not clearly specified "</i> <b>“Yellow”:</b> <i>"Proprietary format but content clearly specified "</i> <b>“Green”:</b> <i>"Not proprietary format and content clearly specified (eg auto-descriptive eg ODV, NetCDF CF) or at least with appropriate documentation"</i>
AV-PE-1- Responsiveness	<b>“Red”:</b> <i>"No information is found on response time" or "More than 1 week for release"</i> <b>“Yellow”:</b> <i>"Less or equal to 1 week for release"</i> <b>“Green”:</b> <i>"Online downloading (i.e. a few hours or less) for release"</i>
AV-AC-3- Data Policy	<b>“Red”:</b> <i>"Not or not well documented"</i> <b>“Yellow”:</b> <i>"Restricted"</i> <b>“Green”:</b> <i>"Unrestricted"</i>
AV-AC-4- Pricing	<b>“Red”:</b> <i>"Not or not well documented" or "Commercial cost charge"</i> <b>“Yellow”:</b> <i>"Distribution charge" or "Collection charge" or "Free of charge for academic institutions and uses"</i> <b>“Green”:</b> <i>"Open and Free, No charge"</i>
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**Table A3.1 Color codes and availability indicator values**

## 2. Overall availability scores statistics

Table A3.1 lists the P02 characteristic categories and the scores across the different data sets used by the Challenges. The colour inserted is the one representing the largest number of data sets, the most frequent colour. If two colours have the same number of input data sets then the “best” colour is chosen, i.e., the more “adequate” one. This is because if equal number of data sets are indicated with different scores, this might not be a real gap in the observing system adequacy but it could be due to communities not using available data sets.

DGMARE decided to have a “theme” classification of the P02 characteristic categories, and we have grouped the P02 in tables A3.1 and A3.2 following this subdivision.

**Table A3.1 Overall assessment of the Availability indicators by P02 Characteristics. The score represents the most frequent colour among the different scores given by the different Challenges to different data sets.**

There is probably an error: from Table 4.1 we should have 69 P02, why only 42? DONE, 42 P02

P02 characteristics category	# of data sets	Easily found	INSPIRE catalog service	Visibility of data policy	Data delivery	Data policy	Pricing	Readiness	Responsiveness
<b>Bathymetry</b>									
1. Bathymetry and Elevation	88								
2. Terrestrial mapping	1								
<b>Geology</b>									
3. Coastal geomorphology	3								
4. Concentration of suspended particulate material in the water column	8								
5. Geological sample density	1								
<b>Physics</b>									
6. Horizontal velocity of the water column (currents)	9								
7. River flow and discharge	16								
8. Salinity of the water column	2								
9. Sea level	54								
10. Spectral wave data parameters	2								
11. Temperature of the water column	127								
12. Skin temperature of the water column	11								
13. Wave direction	1								

## Sea Basin Checkpoint Lot 4: Black Sea

P02 characteristics category	# of data sets	Easily found	INSPIRE catalog service	Visibility of data policy	Data delivery	Data policy	Pricing	Readiness	Responsiveness
14. Wave height and period statistics	8								
15. Wind strength and direction	8								
<b>Chemistry</b>									
16. Dissolved oxygen parameters in the water column	2								
17. Dissolved total and organic nitrogen concentrations in the water column	6								
18. Dissolved total or organic phosphorus concentration in the water column	2								
19. Nitrate concentration parameters in the water column	29								
20. Particulate total and organic phosphorus concentrations in the water column	5								
21. Phosphate concentration parameters in the water column	21								
<b>Biology</b>									
22. Bird taxonomy-related counts	4								
23. Cetacean abundance	2								
24. Chlorophyll pigment concentrations in the water column	5								
25. Chlorophyll pigment concentrations in water bodies	4								
26. Fauna abundance per unit area of the bed	5								
27. Fish biomass in water bodies	1								
28. Fish taxonomy-related counts	2								
<b>Habitats</b>									
29. Habitat extent	3								
30. Phytoplankton generic abundance in water bodies	5								
31. Phytoplankton generic biomass in water bodies	6								
32. Phytoplankton taxonomic surface area in water bodies	1								
33. Zooplankton taxonomy-related abundance per unit volume of the water column	13								
34. Zooplankton wet weight biomass	11								
<b>Human activity</b>									
35. Fish and shellfish catch statistics	4								
36. Fishery characterisation	3								
37. Administrative units	4								
<b>Other</b>									
38. Air pressure	1								
39. Air temperature	2								
40. Atmospheric humidity	2								

## Sea Basin Checkpoint Lot 4: Black Sea

P02 characteristics category	# of data sets	Easily found	INSPIRE catalog service	Visibility of data policy	Data delivery	Data policy	Pricing	Readiness	Responsiveness
41. Other physical and chemical properties of suspended particulate material	4								
42. Snow and ice mass, thickness and extent	17								
P02 in TOTAL: 42	TOTAL : 503								

## Sea Basin Checkpoint Lot 4: Black Sea

**Table A3.2 Availability indicators and a number of input data sets for P02 characteristics subdivided into “themes” that are: Bathymetry, Geology, Physics, Chemistry, Biology, Habitats, Human activities, others**

### Bathymetry

P02 characteristics	Easily found		INSPIRE catalogue		Visibility of Data policy		Data delivery		Data policy		Pricing		Readiness		Responsiveness	
Bathymetry and Elevation	2	86	2	86	82	6	5	75	82	2	4	8	4	8	2	6
Terrestrial mapping		1		1		1	1			1		1			1	

### Geology

P02 characteristics	Easily found		INSPIRE catalogue service	Visibility of Data policy		Data delivery	Data policy		Pricing	Readiness		Responsiveness	
Coastal geomorphology		2	21	12	21	21	12	12	12	111	111	111	
Concentration of suspended particulate material in the water column	17		17		35	26	26	26		17		26	
Geological sample density	1		1		1	1	1		1		1	1	

### Physics

P02 characteristics	Easily found		INSPIRE catalogue		Visibility of Data policy		Data delivery		Data policy		Pricing		Readiness		Responsiveness	
Horizontal velocity of the water column (currents)	6	3	8	1	4	5	2	2	5	5	4			9	2	7
River flow and discharge		15	1	15	1	15	2	14		1	15	1	1	4	2	1
Salinity of the water column	2		2		1	1	2			2		1	1		1	1
Sea level	5	47	5	49	2	9	7	3	44	1	10	4	6	8	7	4
Spectral wave data parameters	2		2		2		2			2		2			2	
Temperature of the water column	30	97	10	11	21	23	30	7	8	6	45	4	1	8	5	7
Skin temperature of the water column		10		11		11			11		10		1	1	1	0
Wave direction	1		1			1			1				1			1
Wave height and period statistics	8		8		8		5	3		8		5	3		5	3
Wind strength and direction	4	4	8		2	4	4	2	2	8		2	6		2	4

### Chemistry

P02 characteristics	Easily found		INSPIRE catalogue		Visibility of Data policy		Data delivery		Data policy		Pricing		Readiness		Responsiveness	
Dissolved oxygen parameters in the water column		2	1	1	2			2	1	1	1	1	2		2	
Dissolved total and organic nitrogen concentrations in the water column		6		6	3	3		6	2	4	2	4		6	2	4
Dissolved total or organic phosphorus concentration in the water column	1	1	1	1	1			1		1		1		1	1	



## Sea Basin Checkpoint Lot 4: Black Sea

Nitrate concentration parameters in the water column			29	6	23		13		16			29		10	19	7		2	2			2	9	1	0		1	9
Particulate total and organic phosphorus concentrations in the water column			5	1	4		4		1			5		1	4	1		2				5		1			4	
Phosphate concentration parameters in the water column			21	10	11		7		14			21	1	8	13	8		1	3			2	1	1	2			9

### Biology

P02 characteristics	Easily found			INSPIRE catalogue			Visibility of Data policy			Data delivery			Data policy			Pricing			Readiness			Responsiveness			
	Bird taxonomy-related counts	3		1		4			4		4			3	1			4		1	3			4	
	Cetacean abundance			2		2			2		2				2			2		1	1			2	
	Chlorophyll pigment concentrations in the water column		1	4		2	3		2	3		1	4		3	2			5			5			5
	Chlorophyll pigment concentrations in water bodies			4			4			4		0	4		1	3			4			4		3	1
	Fauna abundance per unit area of the bed	1		4			5			5		5			1	4		1	4			5			5
	Fish biomass in water bodies			1			1			1			1			1			1			1			1
	Fish taxonomy-related counts			2			2			2			2			2			2		2				2

### Habitats

P02 characteristics	Easily found			INSPIRE catalogue			Visibility of Data policy			Data delivery			Data policy			Pricing			Readiness			Responsiveness		
Habitat extent	2		1		3				3		2	1		2	1		2	1			3			3
Phytoplankton generic abundance in water bodies	1		4	1	4		3	2		3		2		2	3	1	1	3	3	1	1	3		2
Phytoplankton generic biomass in water bodies	1		5	2	4		4		2	3		3	2	3	1	4		2	4		2	4		2
Phytoplankton taxonomic surface area in water bodies			1		1		1					1			1			1			1			1
Zooplankton taxonomy-related abundance per unit volume of the water column			13		13		2	8	3	8	2	3		10	3	10	2	1	6	2	5	10	2	1
Zooplankton wet weight biomass			11		11		2	8	1	8		3		10	1	10		1	6		5	10		1

### Human activity

P02 characteristics	Easily found			INSPIRE catalogue			Visibility of Data policy			Data delivery			Data policy			Pricing			Readiness			Responsiveness		
Fish and shellfish catch statistics			4		4			4			4			4			4			4			4	
Fishery characterisation	1		2		3			3		1	2		1	2		1	2		1	2			3	
Horizontal spatial co-ordinates			4		4			4			4			4			4		2	2			4	

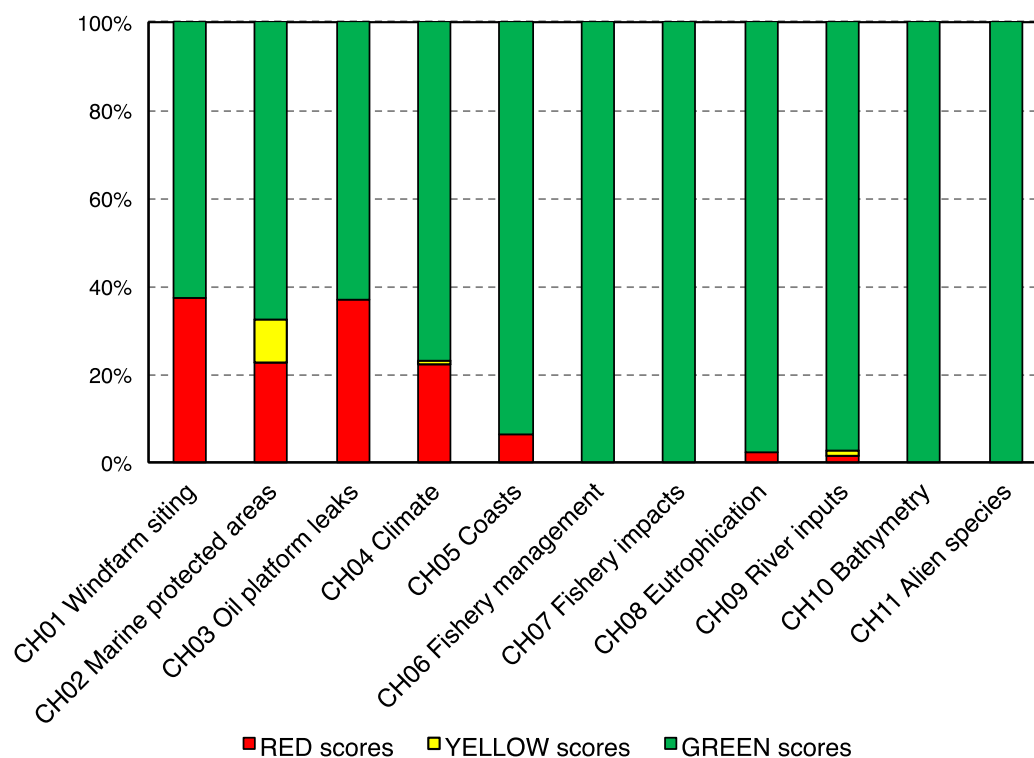
Other																										
P02 characteristics			Easily found			INSPIRE catalogue			Visibility of Data policy			Data delivery			Data policy			Pricing			Readiness			Responsiveness		
Air pressure	1				1				1				1				1			1			1			
Air temperature	2				2				1	1			1				2			1	1		1	1		
Atmospheric humidity	2				2				1	1			1				2			1	1		1	1		
Other physical and chemical properties of suspended particulate material				4		4					4			4					4			4				
Snow and ice mass, thickness and extent	2	1	14		4	13			2		15		1		16		3	1	13	4		1	3		1	

### 3. Availability scores by Challenges

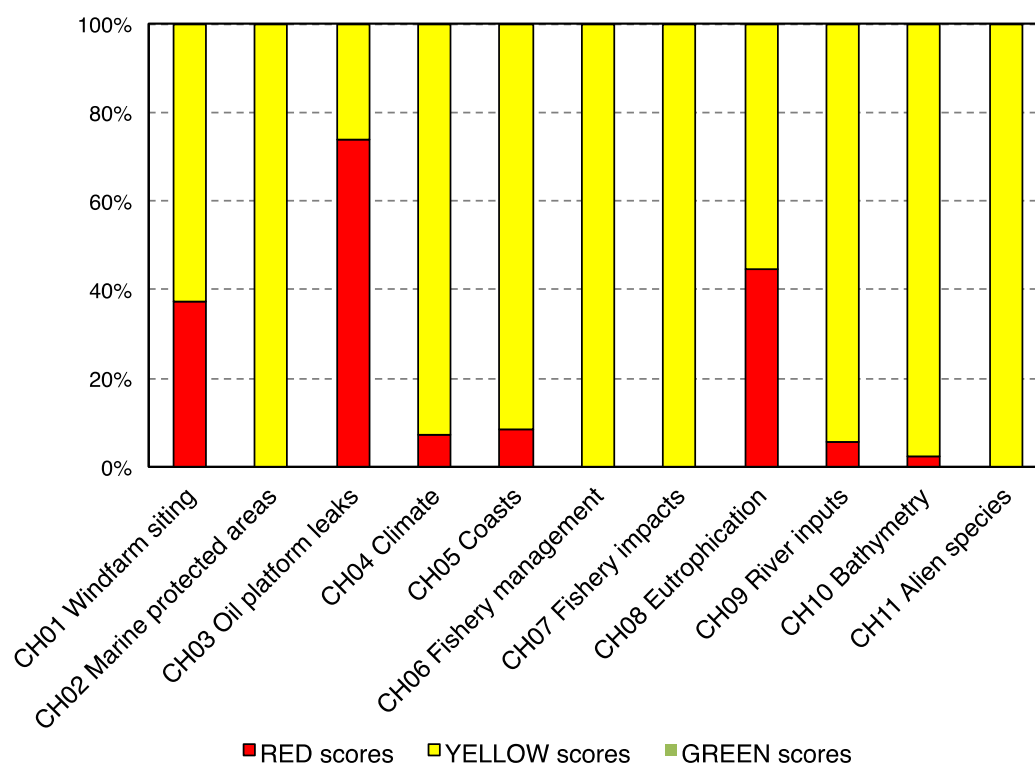
Availability indicator scores as a function of Challenges for all input data sets are shown in the 8 histograms below in terms of percentage of input data sets with respect to total data sets per Challenge.

Colors indicated the red, yellow and green scores. Grey means “unknown” score for the specific dataset.

**Table A3.3: AV-VI-1 Easily Found indicator scores for each Challenge**

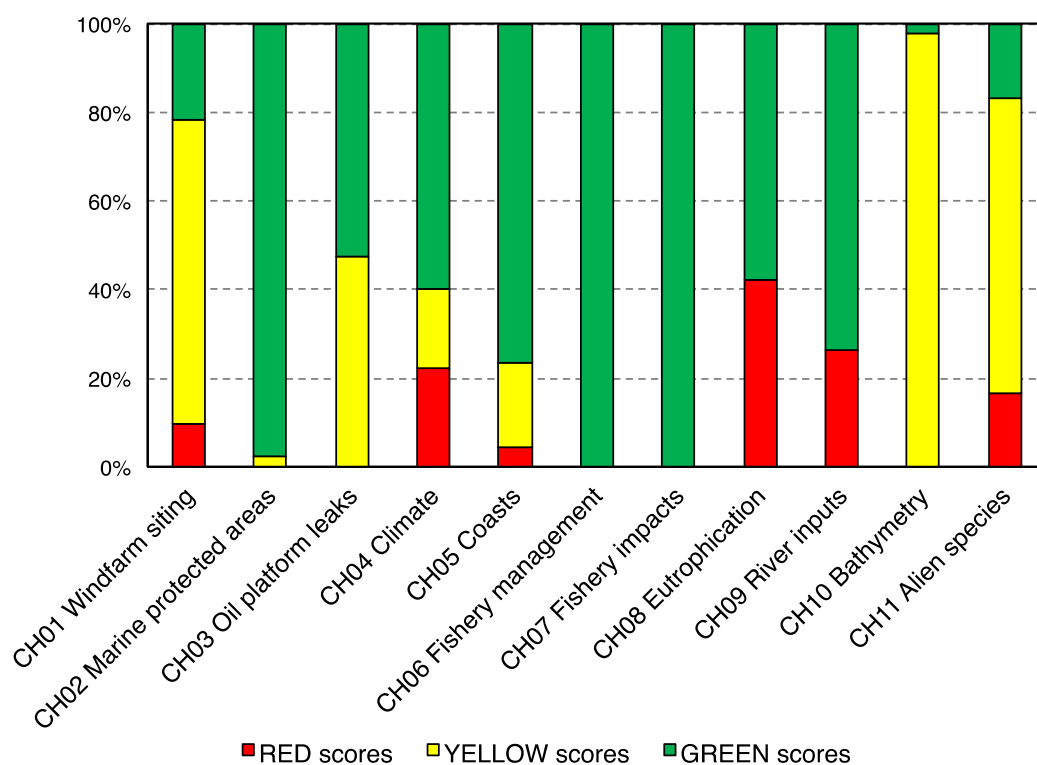


**Table A3.4: AV-VI-2 INSPIRE Catalogue Service indicator scores for each Challenge**

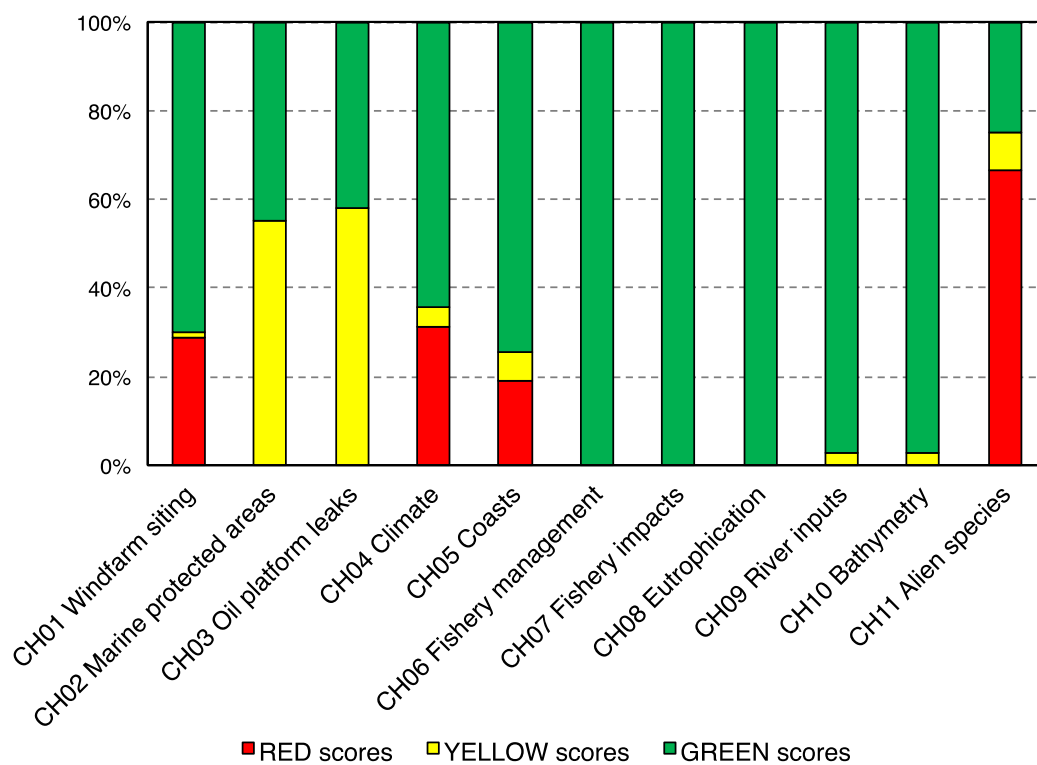


**Table A3.5: AV-AC-1 Policy Visibility indicator scores for each Challenge**

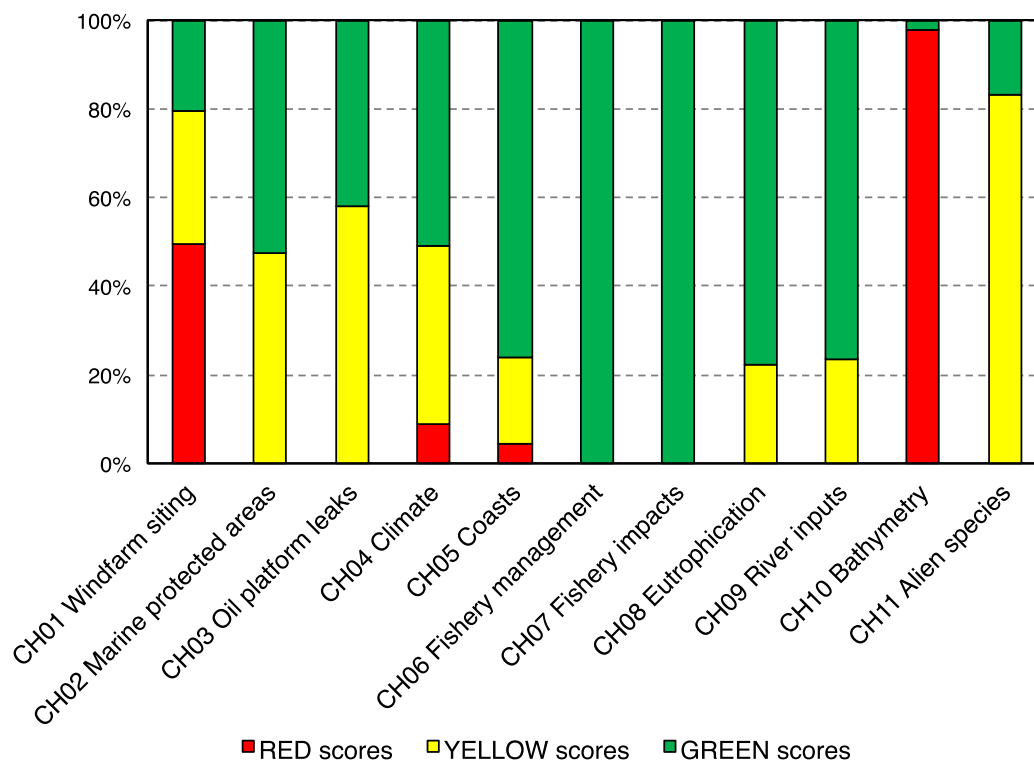
## Sea Basin Checkpoint Lot 4: Black Sea



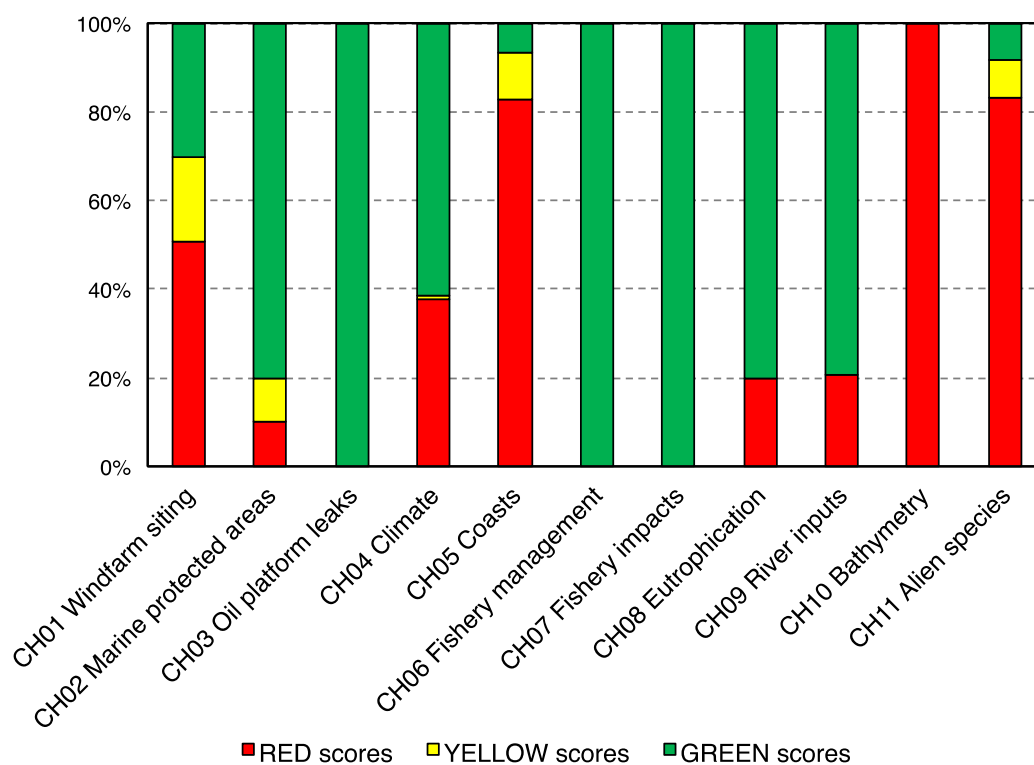
**Table A3.6: AV-AC-2 Delivery Mechanism indicator scores for each Challenge**



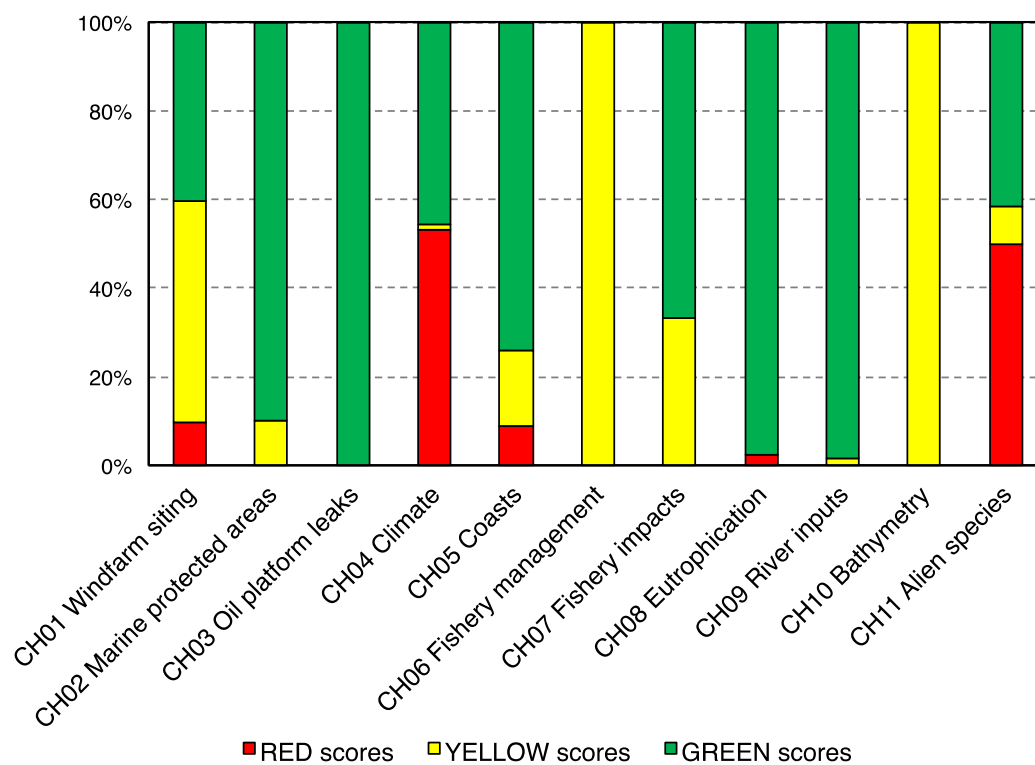
**Table A3.7: AV-AC-3 Data Policy indicator scores for each Challenge**



**Table A3.8: AV-AC-4 Pricing indicator scores for each Challenge**

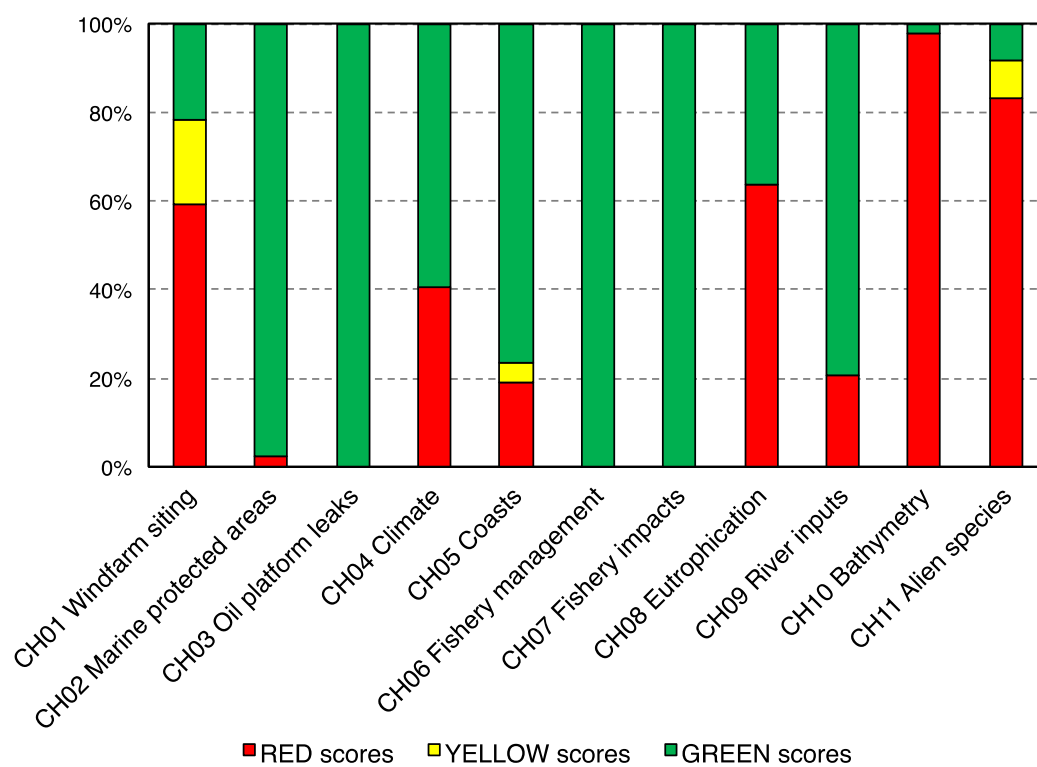


**Table A3.9: AV-AC-5 Readiness indicator scores for each Challenge**



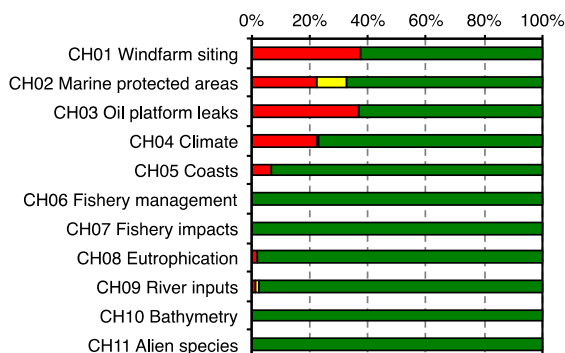
**Table A3.10: AV-PE-1 Responsiveness indicator scores for each Challenge**

## Sea Basin Checkpoint Lot 4: Black Sea

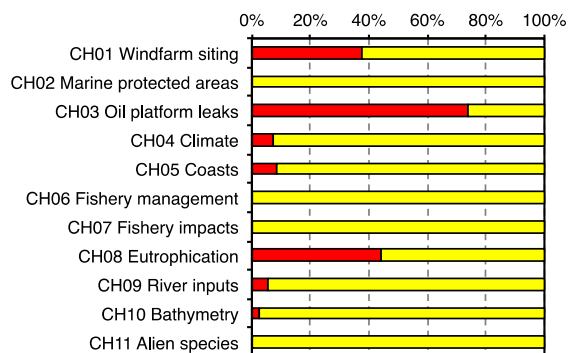


**Table A3.11: Availability indicator scores as a function of Challenges (overview Table). Same content of Table A3.3-A3.10**

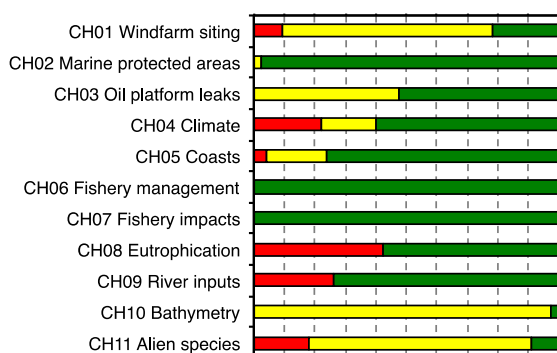
**AV-VI-1 Easily found**



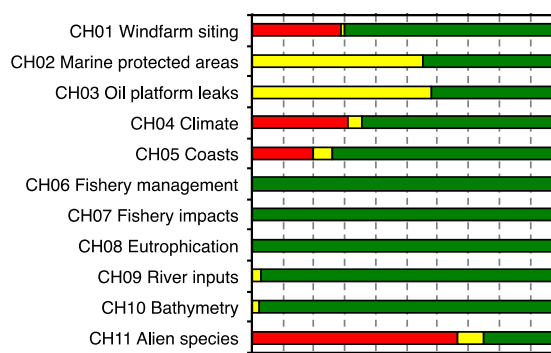
**AV-VI-2 INSPIRE catalogue service**



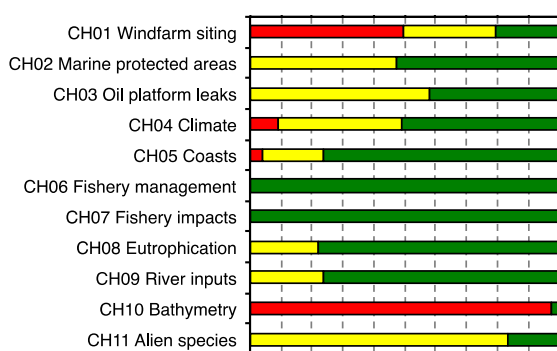
**AV-AC-1 Policy visibility**



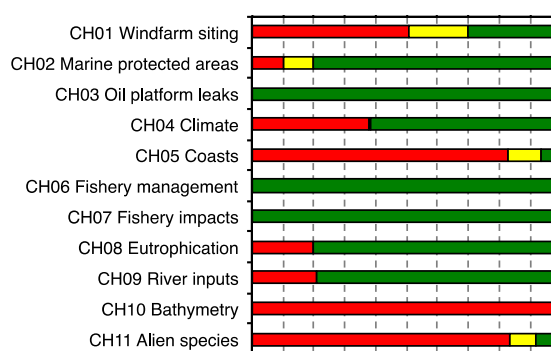
**AV-AC-2 Delivery mechanism**



**AV-AC-3 Data policy**



**AV-AC-4 Pricing**

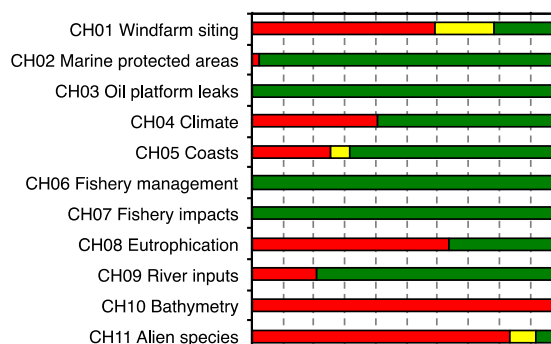
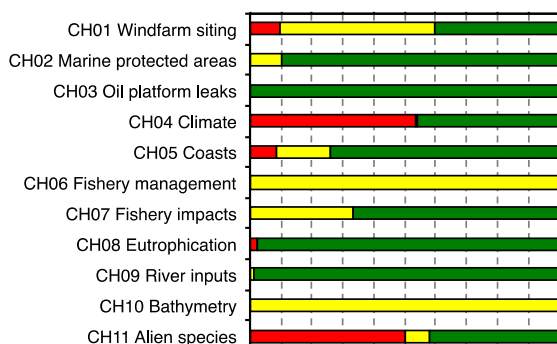


**AV-AC-5 Readiness**

**AV-PE-1 Responsiveness**

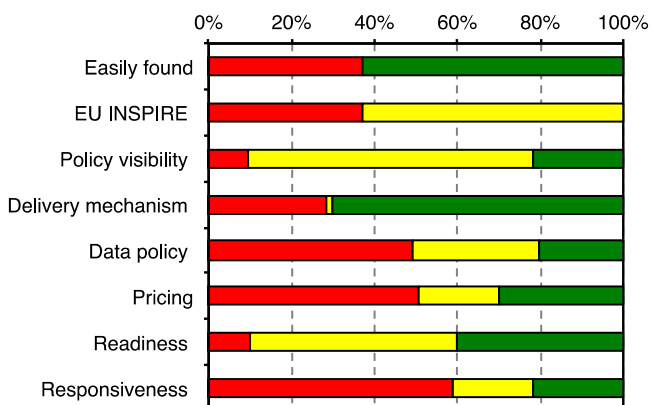


## Sea Basin Checkpoint Lot 4: Black Sea

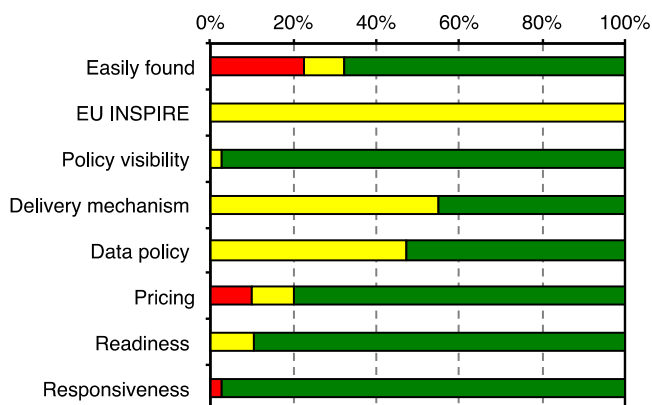


**Table A3.12: Availability indicators for each Challenge (percentage)**

### CH01 Windfarm siting



### CH02 Marine protected areas



### CH03 Oil platform leaks



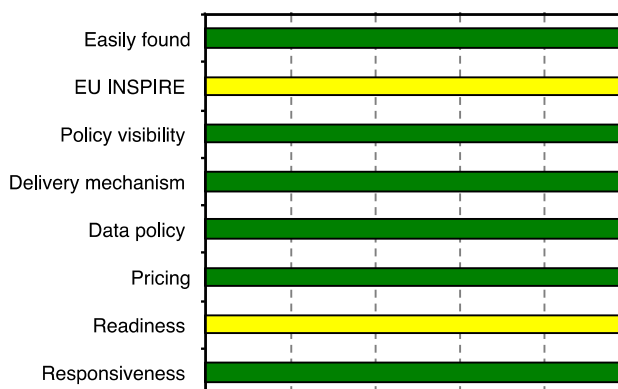
### CH04 Climate



### CH05 Coasts

### CH06 Fishery management

## Sea Basin Checkpoint Lot 4: Black Sea



### CH07 Fishery impacts



### CH08 Eutrophication



### CH09 River inputs



### CH10 Bathymetry



### CH11 Alien species

### Across all the Challenges

## Sea Basin Checkpoint Lot 4: Black Sea

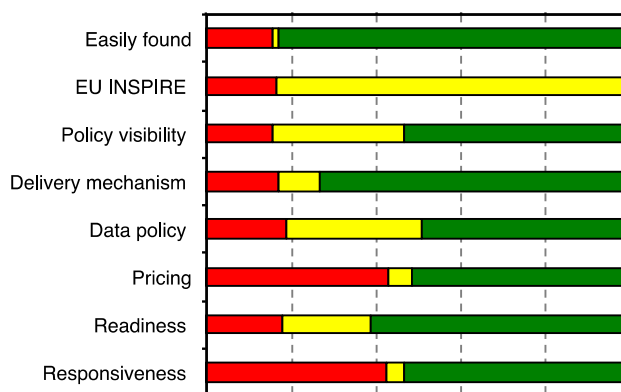
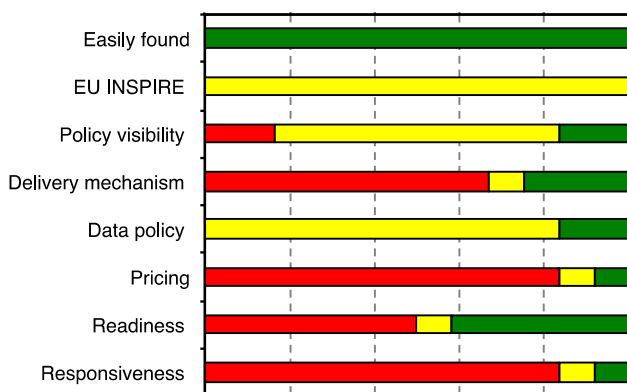
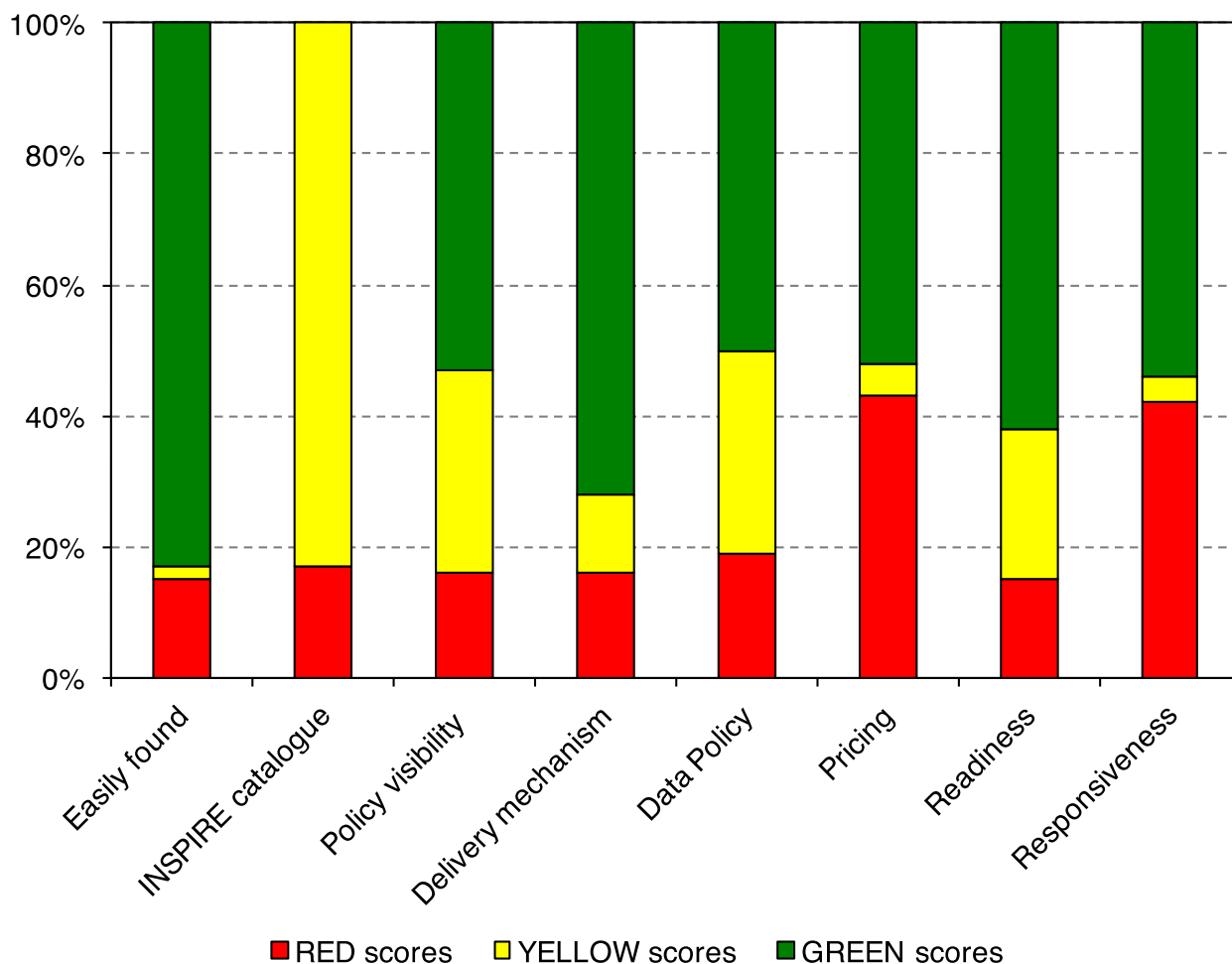


Table A3.13 shown below presents availability indicator scores across all the 11 challenges, and 503 data sets are taken into account.

**Table A3.13: Overview of availability indicator scores across all challenges (percentage)**



**Table A3.14. Availability indicators of P02 Characteristics for Copernicus (7 data sets) and EMODnet (7 data sets) providers**

*Data set provider: Copernicus Marine environment monitoring service*

P02 characteristics	Easily found		INSPIRE catalogue		Visibility of data policy		Data delivery		Data policy		Pricing		Readiness		Responsiveness	
1. Chlorophyll pigment concentrations in water bodies		1		1		1		1		1		1		1		1
2. Chlorophyll pigment concentrations in water column		1		1		1		1		1		1		1		1
3. Horizontal velocity of the water column (currents)	1		1	1		1		2		1		2		2		2
4. Phytoplankton generic abundance in water bodies		1		1		1		1		1		1		1		1
5. Skin temperature of the water column				10		10		10		10		10		10		10
6. Temperature of the water column	1		1	28		1		29	1	4	24	2	9	2	5	24
7. Sea level		16	1	15		16		16		16	1	6		1		16

*Data set provider: EMODnet*

P02 characteristics	Easily found		INSPIRE catalogue		Visibility of data policy		Data delivery		Data policy		Pricing		Readiness		Responsiveness	
1. Bathymetry and Elevation	1			1		1		1		1		1		1		1
2. Coastal geomorphology		1		1		1		1		1		1		1		1
3. Concentration of suspended particulate material in the water column		1		1		1		1		1	1		1		1	
4. Dissolved total and organic nitrogen concentrations in the water column		2		2		2		2		2	2		2		2	
5. Nitrate concentration parameters in the water column		13		13		13		13	5	8	5	8		13	7	6
6. Particulate total and organic phosphorus concentrations in the water column		1		1		1		1		1	1			1	1	
7. Phosphate concentration parameters in the water column		14	7	7	2	12		14	6	8	6	8		14	10	4

## 4. Detailed description of availability scores by Challenge

All input data sets are listed below, they are divided by Challenge, and provided with availability indicator scores.

### Challenge 1: Windfarm siting

The table below presents availability indicators for all data sets related to CH01 Windfarm siting (83 data sets, 12 P02 characteristics categories, see tables 7.1 and A1.1).

Category - P02 - Category of characteristics	Availability / Visibility / Easily found	Availability / Visibility / EU catalogue service	Availability / Accessibility / Visibility of data policy	Availability / Accessibility / Data delivery mechanisms	Availability / Accessibility / Data Policy	Availability / Accessibility / Pricing	Availability / Accessibility / Readiness	Availability / Performance / Responsiveness
Air pressure	Cited in peer reviewed paper or grey literature but no info on how to access	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is no information at all on data policy adopted by data providers	No information was found on data delivery mechanisms	Accessible under moratorium	Open and Free. No charge	Format not or not well documented	No information is found on response time
Air temperature	Information retrieved upon specific request to the data source	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is no information at all on data policy adopted by data providers		Accessible under moratorium	Distribution charge	Format not or not well documented	No information is found on response time

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Air temperature	Cited in peer reviewed paper or grey literature but no info on how to access	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is information, but details are available only on request	No information was found on data delivery mechanisms	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Less or equal to 1 week for release
Atmospheric humidity	Information retrieved upon specific request to the data source	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is no information at all on data policy adopted by data providers	No information was found on data delivery mechanisms	Accessible under moratorium	Distribution charge	Format not or not well documented	No information is found on response time
Atmospheric humidity	Cited in peer reviewed paper or grey literature but no info on how to access	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is information, but details are available only on request	No information was found on data delivery mechanisms	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Less or equal to 1 week for release

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Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS GeoportalΓÇª)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request		Not or not well documented	Not or not well documented	Format proprietary but content clearly specified	No information is found on response time
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Bathymetry and Elevation	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online downloading services	Not or not well documented	Commercial charge		No information is found on response time

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Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS GeoportalΓÇª)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Unrestricted	Not or not well documented	Format proprietary but content clearly specified	No information is found on response time
Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS GeoportalΓÇª)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented	Not or not well documented	Format proprietary but content clearly specified	No information is found on response time
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Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS GeoportalFC <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented	Not or not well documented	Format proprietary but content clearly specified	No information is found on response time
Horizontal velocity of the water column (currents)	Information retrieved upon specific request to the data source	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is information, but details are available only on request	Manual process: Order form/invoice is requested	Accessible under moratorium	Distribution charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Less or equal to 1 week for release
Horizontal velocity of the water column (currents)	Information retrieved upon specific request to the data source	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is information, but details are available only on request	Manual process: Order form/invoice is requested	Accessible under moratorium	Distribution charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Less or equal to 1 week for release

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Horizontal velocity of the water column (currents)	Information retrieved upon specific request to the data source	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is detailed information provided to understand data policy	Online discovery and downloading services	Restricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Horizontal velocity of the water column (currents)	Information retrieved upon specific request to the data source	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is detailed information provided to understand data policy	Online discovery and downloading services	Restricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Salinity of the water column	Cited in peer reviewed paper or grey literature but no info on how to access	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is no information at all on data policy adopted by data providers	No information was found on data delivery mechanisms	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Less or equal to 1 week for release No information is found on response time

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Sea level	Cited in peer reviewed paper or grey literature but no info on how to access	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is no information at all on data policy adopted by data providers	No information was found on data delivery mechanisms	Accessible under moratorium	Open and Free. No charge	Format not or not well documented	No information is found on response time
Sea level	Information retrieved upon specific request to the data source	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is information, but details are available only on request	Manual process: Order form/invoice is requested	Accessible under moratorium	Distribution charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Less or equal to 1 week for release



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Sea level	Information retrieved upon specific request to the data source	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Spectral wave data parameters	Information retrieved upon specific request to the data source	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is information, but details are available only on request	Manual process: Order form/invoice is requested	Accessible under moratorium	Distribution charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Less or equal to 1 week for release
Spectral wave data parameters	Information retrieved upon specific request to the data source	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is information, but details are available only on request	Manual process: Order form/invoice is requested	Accessible under moratorium	Distribution charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Less or equal to 1 week for release

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Temperature of the water column	Search via reference catalogue (e.g. MyOcean, GEOSS GeoportalΓÇª)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Temperature of the water column	Information retrieved upon specific request to the data source	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Temperature of the water column	Search via reference catalogue (e.g. MyOcean, GEOSS GeoportalΓÇª)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Temperature of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing	Online downloading (i.e. a few hours or less) for release

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							the content	
Temperature of the water column	Search via reference catalogue (e.g. MyOcean, GEOSS GeoportalΓÇª)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Temperature of the water column	Cited in peer reviewed paper or grey literature but no info on how to access	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is detailed information provided to understand data policy	No information was found on data delivery mechanisms	Accessible under moratorium	Open and Free. No charge	Format not or not well documented	No information is found on response time
Temperature of the water column	Information retrieved upon specific request to the data source	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Temperature of the water column	Information retrieved upon specific request to the data source	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing	Online downloading (i.e. a few hours or less) for release

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							the content	
Temperature of the water column	Search via reference catalogue (e.g. MyOcean, GEOSS GeoportalΓÇª)	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Temperature of the water column	Search via reference catalogue (e.g. MyOcean, GEOSS GeoportalΓÇª)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Temperature of the water column	Information retrieved upon specific request to the data source	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is information, but details are available only on request	Manual process: Order form/invoice is requested	Accessible under moratorium	Distribution charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Less or equal to 1 week for release

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Temperature of the water column	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>FCa</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Temperature of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Temperature of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Temperature of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Wave direction	Information retrieved upon specific request to the data source	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Wave height and period statistics	Information retrieved upon specific request to the data source	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is information, but details are available only on request	Manual process: Order form/invoice is requested	Accessible under moratorium	Distribution charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Less or equal to 1 week for release
Wave height and period statistics	Information retrieved upon specific request to the data source	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is information, but details are available only on request	Manual process: Order form/invoice is requested	Accessible under moratorium	Distribution charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Less or equal to 1 week for release

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Wave height and period statistics	Information retrieved upon specific request to the data source	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is information, but details are available only on request	Manual process: Order form/invoice is requested	Accessible under moratorium	Distribution charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Less or equal to 1 week for release
Wave height and period statistics	Information retrieved upon specific request to the data source	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is information, but details are available only on request	Manual process: Order form/invoice is requested	Accessible under moratorium	Distribution charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Less or equal to 1 week for release
Wave height and period statistics	Information retrieved upon specific request to the data source	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is information, but details are available only on request	Manual process: Order form/invoice is requested	Accessible under moratorium	Distribution charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Less or equal to 1 week for release

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Wind strength and direction	Information retrieved upon specific request to the data source	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Manual process: Order form/invoice is requested	Accessible under moratorium	Distribution charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Less or equal to 1 week for release
Wind strength and direction	Cited in peer reviewed paper or grey literature but no info on how to access	The datasets are referenced in a public national catalogue, in an international catalogue service	There is no information at all on data policy adopted by data providers	No information was found on data delivery mechanisms	Accessible under moratorium	Open and Free. No charge	Format not or not well documented	No information is found on response time
Wind strength and direction	Cited in peer reviewed paper or grey literature but no info on how to access	The datasets are referenced in a public national catalogue, in an international catalogue service	There is no information at all on data policy adopted by data providers	No information was found on data delivery mechanisms	Accessible under moratorium	Open and Free. No charge	Format not or not well documented	No information is found on response time



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Wind strength and direction	Information retrieved upon specific request to the data source	The datasets are referenced in a public national catalogue, in an international catalogue service	There is no information at all on data policy adopted by data providers	Manual process: Order form/invoice is requested	Accessible under moratorium	Distribution charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Less or equal to 1 week for release

Uncertainties are evident for the Bathymetry and Elevation for which there is an advanced service but no information on data policy. The advanced services should indicate that data are viewing and downloading from portals and then policy visibility should be clear.

The uncertainty is probably rising from the fact that the information is found in portals providing metadata, and an indirect access to data, in some cases password protected.

## Challenge 2: Marine Protected Areas

The table below presents availability indicators for all data sets related to CH02 Marine Protected Areas (40 data sets, 13 P02 characteristics categories, see tables 7.1 and A1.1).

Category - P02 - Category of characteristics	Availability / Visibility / Easily found	Availability / Visibility / EU catalogue service	Availability / Accessibility / Visibility of data policy	Availability / Accessibility / Data delivery mechanisms	Availability / Accessibility / Data Policy	Availability / Accessibility / Pricing	Availability / Accessibility / Readiness	Availability / Performance / Responsiveness
Administrative units	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Administrative units	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Administrative units	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Administrative units	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Bathymetry and Elevation	Information retrieved upon specific request to the data source	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online downloading services	Accessible under moratorium	Open and Free. No charge	Format proprietary but content clearly specified	Online downloading (i.e. a few hours or less) for release

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Bathymetry and Elevation	Information retrieved upon specific request to the data source	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online downloading services	Accessible under moratorium	Open and Free. No charge	Format proprietary but content clearly specified	Online downloading (i.e. a few hours or less) for release
Bird taxonomy- related counts	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online downloading services	Unrestricted	Open and Free. No charge	Format proprietary but content clearly specified	Online downloading (i.e. a few hours or less) for release
Bird taxonomy- related counts	Information retrieved upon specific request to the data source	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online downloading services	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Bird taxonomy- related counts	Information retrieved upon specific request to the data source	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online downloading services	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Bird taxonomy- related counts	Information retrieved upon specific request to the data source	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online downloading services	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Cetacean abundance	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Cetacean abundance	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Chlorophyll pigment concentrations in the water column	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>Γ</sup> ³)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Chlorophyll pigment concentrations in the water column	Use of social network, community of practices sharing information, portals of organization where no search is organized	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online downloading services	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Chlorophyll pigment concentrations in the water column	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>7</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Chlorophyll pigment concentrations in water bodies	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Accessible under moratorium documented	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Fauna abundance per unit area of the bed	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Fauna abundance per unit area of the bed	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Fauna abundance per unit area of the bed	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Fauna abundance per unit area of the bed	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release



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Fauna abundance per unit area of the bed	Information retrieved upon specific request to the data source	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online downloading services	Accessible under moratorium	Free of charge for academic institutions and uses	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Fishery characterisation	Information retrieved upon specific request to the data source	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online downloading services	Accessible under moratorium	Free of charge for academic institutions and uses	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Habitat extent	Information retrieved upon specific request to the data source	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online downloading services	Accessible under moratorium	Free of charge for academic institutions and uses	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Category - P02 - Category of characteristics	Availability / Visibility / Easily found	Availability / Visibility / EU catalogue service	Availability / Accessibility / Visibility of data policy	Availability / Accessibility / Data delivery mechanisms	Availability / Accessibility / Data Policy	Availability / Accessibility / Pricing	Availability / Accessibility / Readiness	Availability / Performance / Responsiveness
Habitat extent	Information retrieved upon specific request to the data source	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online downloading services	Accessible under moratorium	Free of charge for academic institutions and uses	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Horizontal velocity of the water column (currents)	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS GeoportalГґґґ)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>Γ</sup> Ç <sup>Δ</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>Γ</sup> Ç <sup>Δ</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>Γ</sup> Ç <sup>Δ</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>Γ</sup> ³)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>Γ</sup> ³)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Sea level	Use of social network, community of practices sharing information, portals of organization where no search is organized	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Sea level	Use of social network, community of practices sharing information, portals of organization where no search is organized	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Skin temperature of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Skin temperature of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Skin temperature of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Skin temperature of the water column	Use of social network, community of practices sharing information, portals of organization where no search is organized	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Temperature of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Category - P02 - Category of characteristics	Availability / Visibility / Easily found	Availability / Visibility / EU catalogue service	Availability / Accessibility / Visibility of data policy	Availability / Accessibility / Data delivery mechanisms	Availability / Accessibility / Data Policy	Availability / Accessibility / Pricing	Availability / Accessibility / Readiness	Availability / Performance / Responsiveness
Temperature of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Temperature of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online downloading services	Accessible under moratorium	Not or not well documented		

The uncertainties here are in those characteristics (Sea level and Temperature of the water column) having a rather good visibility through the open search engines, but the pricing is not well documented.

### Challenge 3: Oil platform leaks

The table below presents availability indicators for all data sets related to Challenge 3: Oil platform leaks (19 data sets, 9 P02 characteristics categories, see tables 7.1 and A1.1).

Category - P02 - Category of characteristics	Availability / Visibility / Easily found	Availability / Visibility / EU catalogue service	Availability / Accessibility / Visibility of data policy	Availability / Accessibility / Data delivery mechanisms	Availability / Accessibility / Data Policy	Availability / Accessibility / Pricing	Availability / Accessibility / Readiness	Availability / Performance / Responsiveness
Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS GeoportalΓ <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online downloading services	Unrestricted	Open and Free. No charge	Format proprietary but content clearly specified	Online downloading (i.e. a few hours or less) for release
Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS GeoportalΓ <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format proprietary but content clearly specified	Online downloading (i.e. a few hours or less) for release



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Category - P02 - Category of characteristics	Availability / Visibility / Easily found	Availability / Visibility / EU catalogue service	Availability / Accessibility / Visibility of data policy	Availability / Accessibility / Data delivery mechanisms	Availability / Accessibility / Data Policy	Availability / Accessibility / Pricing	Availability / Accessibility / Readiness	Availability / Performance / Responsiveness
Coastal geomorphology	Search via reference catalogue (e.g. MyOcean, GEOSS GeoportalΓ <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Geological sample density	Cited in peer reviewed paper or grey literature but no info on how to access	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online downloading services	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Habitat extent	Search via reference catalogue (e.g. MyOcean, GEOSS GeoportalΓ <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Category - P02 - Category of characteristics	Availability / Visibility / Easily found	Availability / Visibility / EU catalogue service	Availability / Accessibility / Visibility of data policy	Availability / Accessibility / Data delivery mechanisms	Availability / Accessibility / Data Policy	Availability / Accessibility / Pricing	Availability / Accessibility / Readiness	Availability / Performance / Responsiveness
Horizontal velocity of the water column (currents)	Cited in peer reviewed paper or grey literature but no info on how to access	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is information, but details are available only on request	Online discovery + downloading + viewing services (Advanced services)	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Horizontal velocity of the water column (currents)	Cited in peer reviewed paper or grey literature but no info on how to access	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is information, but details are available only on request	Online discovery + downloading + viewing services (Advanced services)	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Horizontal velocity of the water column (currents)	Use of open search engines, searching by name either the data provider or the characteristics	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is detailed information provided to understand data policy	Online downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Horizontal velocity of the water column (currents)	Use of open search engines, searching by name either the data provider or the characteristics	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is detailed information provided to understand data policy	Online downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Temperature of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Temperature of the water column	Cited in peer reviewed paper or grey literature but no info on how to access	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery + downloading + viewing services (Advanced services)	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Category - P02 - Category of characteristics	Availability / Visibility / Easily found	Availability / Visibility / EU catalogue service	Availability / Accessibility / Visibility of data policy	Availability / Accessibility / Data delivery mechanisms	Availability / Accessibility / Data Policy	Availability / Accessibility / Pricing	Availability / Accessibility / Readiness	Availability / Performance / Responsiveness
Terrestrial mapping	Search via reference catalogue (e.g. MyOcean, GEOSS GeoportalΓC <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Wave height and period statistic	Information retrieved upon specific request to the data source	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online downloading services	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Wave height and period statistic	Information retrieved upon specific request to the data source	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online downloading services	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Category - P02 - Category of characteristics	Availability / Visibility / Easily found	Availability / Visibility / EU catalogue service	Availability / Accessibility / Visibility of data policy	Availability / Accessibility / Data delivery mechanisms	Availability / Accessibility / Data Policy	Availability / Accessibility / Pricing	Availability / Accessibility / Readiness	Availability / Performance / Responsiveness
Wave height and period statistic	Information retrieved upon specific request to the data source	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online downloading services	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Wind strength and direction	Search via reference catalogue (e.g. MyOcean, GEOSS GeoportalΓ <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Wind strength and direction	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online downloading services	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Wind strength and direction	Search via reference catalogue (e.g. MyOcean, GEOSS GeoportalΓC <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Wind strength and direction	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online downloading services	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

In this challenge a lot of data sources are providing physical nowcast and forecast data. However, most of them are not referenced in well known catalogues (e.g. Copernicus).

## Challenge 4: Climate

The table below presents availability indicators for all data sets related to Challenge 4: Climate (122 data sets, 5 P02 characteristics categories, see tables 7.1 and A1.1).

Category - P02 - Category of characteristics	Availability / Visibility / Easily found	Availability / Visibility / EU catalogue service	Availability / Accessibility / Visibility of data policy	Availability / Accessibility / Data delivery mechanisms	Availability / Accessibility / Data Policy	Availability / Accessibility / Pricing	Availability / Accessibility / Readiness	Availability / Performance / Responsiveness
Phytoplankton generic abundance in water bodies	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is no information at all on data policy adopted by data providers	No information was found on data delivery mechanisms	Restricted	Not or not well documented	Format not or not well documented	No information is found on response time
Phytoplankton generic abundance in water bodies	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	No information was found on data delivery mechanisms	Unrestricted	Open and Free. No charge	Format not or not well documented	No information is found on response time

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Phytoplankton generic abundance in water bodies	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format proprietary but content clearly specified	Online downloading (i.e. a few hours or less) for release
Phytoplankton generic abundance in water bodies	Information retrieved upon specific request to the data source	The datasets are referenced in a public national catalogue, in an international catalogue service	There is no information at all on data policy adopted by data providers	Manual process: Order form/invoice is requested	Accessible under moratorium	Distribution charge	Format not or not well documented	No information is found on response time
Phytoplankton generic biomass in water bodies	Cited in peer reviewed paper or grey literature but no info on how to access	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is detailed information provided to understand data policy	No information was found on data delivery mechanisms	Not or not well documented	Not or not well documented	Format not or not well documented	No information is found on response time



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Phytoplankton generic biomass in water bodies	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is no information at all on data policy adopted by data providers	No information was found on data delivery mechanisms	Restricted	Not or not well documented	Format not or not well documented	No information is found on response time
Phytoplankton generic biomass in water bodies	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is no information at all on data policy adopted by data providers	Online discovery and downloading services	Not or not well documented	Not or not well documented	Format not or not well documented	No information is found on response time
Phytoplankton generic biomass in water bodies	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is no information at all on data policy adopted by data providers	No information was found on data delivery mechanisms	Restricted	Not or not well documented	Format not or not well documented	No information is found on response time

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Phytoplankton generic biomass in water bodies	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Skin temperature of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Skin temperature of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Skin temperature of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Skin temperature of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Skin temperature of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Skin temperature of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
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Snow and ice mass, thickness and extent	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Snow and ice mass, thickness and extent	Use of social network, community of practices sharing information, portals of organization where no search is organized	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is no information at all on data policy adopted by data providers	Online discovery and downloading services	Not or not well documented	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
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Temperature of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Manual process: Order form/invoice is requested	Unrestricted	Open and free	Format not or not well documented	No information is found on response time
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Temperature of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Accessible under moratorium	Open and free	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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The main uncertainty in this challenge is related to datasets referenced in a public national/international catalogues but without well documented pricing and formats.

## Challenge 5: Coasts

The table below presents availability indicators for all data sets related to Ch5 Coasts (47 data sets, 3 P02 characteristics categories, see tables 7.1 and A1.1).

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Coastal geomorphology	Search via reference catalogue (e.g. MyOcean, GEOSS GeoportalΓ <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Manual process: Order form/invoice is requested	Unrestricted	Open and Free. No charge	Format proprietary but content clearly specified	No information is found on response time
Coastal geomorphology		Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is information, but details are available only on request	Manual process: Order form/invoice is requested	Accessible under moratorium	Commercial charge	Proprietary format and not well documented	Less or equal to 1 week for release

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River flow and discharge	Search via reference catalogue (e.g. MyOcean, GEOSS GeoportalIT <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Manual process: Order form/invoice is requested	Unrestricted	Open and Free. No charge	Format proprietary but content clearly specified	No information is found on response time
River flow and discharge	Information retrieved upon specific request to the data source	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is no information at all on data policy adopted by data providers	Manual process: Order form/invoice is requested)	Not or not well documented	Commercial charge	Proprietary format and not well documented	No information is found on response time
Sea level	Information retrieved upon specific request to the data source	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is information, but details are available only on request	Manual process: Order form/invoice is requested	Accessible under moratorium	Commercial charge	Format proprietary but content clearly specified	More than 1 week for release

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Sea level	Information retrieved upon specific request to the data source	The datasets are referenced in a public national catalogue, in an international catalogue service	There is no information at all on data policy adopted by data providers	No information was found on data delivery mechanisms	Not or not well documented	Not or not well documented	Proprietary format and not well documented	No information is found on response time
Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a)</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Restricted	Open and free	Format not proprietary and content clearly specified (e.g. autodescription like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Sea level	Use of open search engines, searching by name either the data provider or the characteristics	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is information, but details are available only on request	Online downloading services	Not or not well documented	Not or not well documented	Format not or not well documented	No information is found on response time

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Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS GeoportalΓ <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescription like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release



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Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
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Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
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Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Sea level	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal <sup>a</sup> )	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

The main uncertainty in this challenge is related to unrestricted data policy where the pricing is not well documented.

## Challenge 6: Fisheries management

The table below presents availability indicators for all data sets related to Ch6 Fisheries management (3 data sets, 2 P02 characteristics categories, see tables 7.1 and A1.1).

Category - P02 - Category of characteristics	Availability / Visibility / Easily found	Availability / Visibility / EU catalogue service	Availability / Accessibility / Visibility of data policy	Availability / Accessibility / Data delivery mechanisms	Availability / Accessibility / Data Policy	Availability / Accessibility / Pricing	Availability / Accessibility / Readiness	Availability / Performance / Responsiveness
Fish and shellfish catch statistics	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format proprietary but content clearly specified	Online downloading (i.e. a few hours or less) for release
Fish taxonomy- related counts	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format proprietary but content clearly specified	Online downloading (i.e. a few hours or less) for release

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Fish taxonomy- related counts	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format proprietary but content clearly specified	Online downloading (i.e. a few hours or less) for release

This challenge is the most uncertain in terms of data visibility through EU catalogue service and readiness.

## Challenge 7: Fishery impacts

The table below presents availability indicators for all data sets related to Ch7 Fishery impacts (6 data sets, 3 P02 characteristics categories, see tables 7.1 and A1.1).

Category - P02 - Category of characteristics	Availability / Visibility / Easily found	Availability / Visibility / EU catalogue service	Availability / Accessibility / Visibility of data policy	Availability / Accessibility / Data delivery mechanisms	Availability / Accessibility / Data Policy	Availability / Accessibility / Pricing	Availability / Accessibility / Readiness	Availability / Performance / Responsiveness
Fish and shellfish catch statistics	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Fish and shellfish catch statistics	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format proprietary but content clearly specified	Online downloading (i.e. a few hours or less) for release

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Fish and shellfish catch statistics	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Fish biomass in water bodies	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Fishery characterisation	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Fishery characterisation	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format proprietary but content clearly specified	Online downloading (i.e. a few hours or less) for release

This challenge is the most uncertain in terms of data visibility through EU catalogue service.



## Challenge 8: Eutrophication

The table below presents availability indicators for all data sets related to Ch8 Eutrophication (45 data sets, 11 P02 characteristics categories, see tables 7.1 and A1.1).

Category - P02 - Category of characteristics	Availability / Visibility / Easily found	Availability / Visibility / EU catalogue service	Availability / Accessibility / Visibility of data policy	Availability / Accessibility / Data delivery mechanisms	Availability / Accessibility / Data Policy	Availability / Accessibility / Pricing	Availability / Accessibility / Readiness	Availability / Performance / Responsiveness
Chlorophyll pigment concentrations in the water column	Use of open search engines, searching by name either the data provider or the characteristics	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is no information at all on data policy adopted by data providers	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Chlorophyll pigment concentrations in the water column	Use of open search engines, searching by name either the data provider or the characteristics	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is no information at all on data policy adopted by data providers	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Chlorophyll pigment concentrations in water bodies	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Chlorophyll pigment concentrations in water bodies	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Chlorophyll pigment concentrations in water bodies	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Dissolved oxygen parameters in the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is no information at all on data policy adopted by data providers	Online discovery and downloading services	Restricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Dissolved oxygen parameters in the water column	Use of open search engines, searching by name either the data provider or the characteristics	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is no information at all on data policy adopted by data providers	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Dissolved total and organic nitrogen concentrations in the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Dissolved total and organic nitrogen concentrations in the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Restricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Dissolved total or organic phosphorus concentration in the water column	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is no information at all on data policy adopted by data providers						
Dissolved total or organic phosphorus concentration in the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is no information at all on data policy adopted by data providers	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time

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Category - P02 - Category of characteristics	Availability / Visibility / Easily found	Availability / Visibility / EU catalogue service	Availability / Accessibility / Visibility of data policy	Availability / Accessibility / Data delivery mechanisms	Availability / Accessibility / Data Policy	Availability / Accessibility / Pricing	Availability / Accessibility / Readiness	Availability / Performance / Responsiveness
Nitrate concentration parameters in the water column	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Nitrate concentration parameters in the water column	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Nitrate concentration parameters in the water column	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time

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Nitrate concentration parameters in the water column	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Nitrate concentration parameters in the water column	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is no information at all on data policy adopted by data providers	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Nitrate concentration parameters in the water column	Use of open search engines, searching by name either the data provider or the characteristics	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is no information at all on data policy adopted by data providers	Online discovery + downloading + viewing services (Advanced services)	Restricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time

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Nitrate concentration parameters in the water column	Use of open search engines, searching by name either the data provider or the characteristics	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is no information at all on data policy adopted by data providers	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Nitrate concentration parameters in the water column	Use of open search engines, searching by name either the data provider or the characteristics	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is detailed information provided to understand data policy	Online discovery and downloading services	Accessible under moratorium	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Nitrate concentration parameters in the water column	Use of open search engines, searching by name either the data provider or the characteristics	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is no information at all on data policy adopted by data providers	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Nitrate concentration parameters in the water column	Use of open search engines, searching by name either the data provider or the characteristics	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is no information at all on data policy adopted by data providers	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Nitrate concentration parameters in the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is no information at all on data policy adopted by data providers	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Nitrate concentration parameters in the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is no information at all on data policy adopted by data providers	Online discovery and downloading services	Restricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release



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Nitrate concentration parameters in the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Restricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Nitrate concentration parameters in the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Phosphate concentration parameters in the water column	Search via reference catalogue (e.g. MyOcean, GEOS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time

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Phosphate concentration parameters in the water column	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Phosphate concentration parameters in the water column	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Phosphate concentration parameters in the water column	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time

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Phosphate concentration parameters in the water column	searching by name either the data provider or the characteristics	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is no information at all on data policy adopted by data providers	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Phosphate concentration parameters in the water column	searching by name either the data provider or the characteristics	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is no information at all on data policy adopted by data providers	Online discovery and downloading services	Restricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Phosphate concentration parameters in the water column	searching by name either the data provider or the characteristics	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is detailed information provided to understand data policy	Online discovery and downloading services	Accessible under moratorium	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time

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Phosphate concentration parameters in the water column	searching by name either the data provider or the characteristics	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is no information at all on data policy adopted by data providers	Online discovery and downloading services	Restricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Phosphate concentration parameters in the water column	searching by name either the data provider or the characteristics	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is no information at all on data policy adopted by data providers	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Phosphate concentration parameters in the water column	searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Restricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time

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Phytoplankton generic abundance in water bodies	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is no information at all on data policy adopted by data providers	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Phytoplankton generic biomass in water bodies	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is no information at all on data policy adopted by data providers	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Phytoplankton taxonomic surface area in water bodies	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is no information at all on data policy adopted by data providers	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Temperature of the water column	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Temperature of the water column	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Temperature of the water column	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time

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Temperature of the water column	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Temperature of the water column	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Temperature of the water column	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time

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Temperature of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time

The uncertainties here are related to rather insufficient visibility of data policy and a low responsiveness.



## Challenge 9: River Inputs

The table below presents availability indicators for all data sets related to Ch9 River Inputs (42 data sets, 8 P02 characteristics categories, see tables 7.1 and A1.1).

Category - P02 - Category of characteristics	Availability / Visibility / Easily found	Availability / Visibility / EU catalogue service	Availability / Accessibility / Visibility of data policy	Availability / Accessibility / Data delivery mechanisms	Availability / Accessibility / Data Policy	Availability / Accessibility / Pricing	Availability / Accessibility / Readiness	Availability / Performance / Responsiveness
Concentration of suspended particulate material in the water column	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is no information at all on data policy adopted by data providers	Online discovery and downloading services	Restricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Concentration of suspended particulate material in the water column	Use of open search engines, searching by name either the data provider or the characteristics	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is detailed information provided to understand data policy	Online downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Concentration of suspended particulate material in the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is no information at all on data policy adopted by data providers	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Concentration of suspended particulate material in the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Concentration of suspended particulate material in the water column	Use of open search engines, searching by name either the data provider or the characteristics	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is no information at all on data policy adopted by data providers	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Concentration of suspended particulate material in the water column	Use of open search engines, searching by name either the data provider or the characteristics	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is no information at all on data policy adopted by data providers	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Concentration of suspended particulate material in the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Concentration of suspended particulate material in the water column	Use of social network, community of practices sharing information, portals of organization where no search is organized	The datasets are referenced in a public national catalogue, in an international catalogue service	There is no information at all on data policy adopted by data providers	Online downloading services	Restricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time

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Dissolved total and organic nitrogen concentrations in the water column	Use of open search engines, searching by name either the data provider or the characteristics	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is detailed information provided to understand data policy	Online discovery and downloading services	Restricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Dissolved total and organic nitrogen concentrations in the water column	Use of open search engines, searching by name either the data provider or the characteristics	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is no information at all on data policy adopted by data providers	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Dissolved total and organic nitrogen concentrations in the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is no information at all on data policy adopted by data providers	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Dissolved total and organic nitrogen concentrations in the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is no information at all on data policy adopted by data providers	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Nitrate concentration parameters in the water column	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	Data sets are not referenced in a catalogue or are referenced in a non public catalogue	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
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Category - P02 - Category of characteristics	Availability / Visibility / Easily found	Availability / Visibility / EU catalogue service	Availability / Accessibility / Visibility of data policy	Availability / Accessibility / Data delivery mechanisms	Availability / Accessibility / Data Policy	Availability / Accessibility / Pricing	Availability / Accessibility / Readiness	Availability / Performance / Responsiveness
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Other physical and chemical properties of suspended particulate material	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
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Particulate total and organic phosphorus concentrations in the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is no information at all on data policy adopted by data providers	Online discovery and downloading services	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Phosphate concentration parameters in the water column	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
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Category - P02 - Category of characteristics	Availability / Visibility / Easily found	Availability / Visibility / EU catalogue service	Availability / Accessibility / Visibility of data policy	Availability / Accessibility / Data delivery mechanisms	Availability / Accessibility / Data Policy	Availability / Accessibility / Pricing	Availability / Accessibility / Readiness	Availability / Performance / Responsiveness
Temperature of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery + downloading + viewing services (Advanced services)	Unrestricted	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Temperature of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is no information at all on data policy adopted by data providers	Online discovery and downloading services	Restricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Temperature of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online discovery and downloading services	Restricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time

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Temperature of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is no information at all on data policy adopted by data providers	Online discovery and downloading services	Restricted	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time

The uncertainties here are related to rather insufficient visibility of data policy restricted data policy and the pricing that tends not to be well documented.

## Challenge 10: Bathymetry

The table below presents availability indicators for all data sets related to Ch10 Bathymetry (42 data sets, 1 P02 characteristics category, see tables 7.1 and A1.1).

Category - P02 - Category of characteristics	Availability / Visibility / Easily found	Availability / Visibility / EU catalogue service	Availability / Accessibility / Visibility of data policy	Availability / Accessibility / Data delivery mechanisms	Availability / Accessibility / Data Policy	Availability / Accessibility / Pricing	Availability / Accessibility / Readiness	Availability / Performance / Responsiveness
Bathymetry and Elevation	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is detailed information provided to understand data policy	Online downloading services	Unrestricted	Commercial charge		Online downloading (i.e. a few hours or less) for release
Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request		Not or not well documented	Not or not well documented	Format proprietary but content clearly specified	No information is found on response time



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Category - P02 - Category of characteristics	Availability / Visibility / Easily found	Availability / Visibility / EU catalogue service	Availability / Accessibility / Visibility of data policy	Availability / Accessibility / Data delivery mechanisms	Availability / Accessibility / Data Policy	Availability / Accessibility / Pricing	Availability / Accessibility / Readiness	Availability / Performance / Responsiveness
Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request		Not or not well documented	Not or not well documented	Format proprietary but content clearly specified	No information is found on response time
Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request		Not or not well documented	Not or not well documented	Format proprietary but content clearly specified	No information is found on response time
Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request		Not or not well documented	Not or not well documented	Format proprietary but content clearly specified	No information is found on response time

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Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented		Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented		Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented		Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release

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Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented		Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	Online downloading (i.e. a few hours or less) for release
Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time

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Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time

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Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
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Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented		Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time



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Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time

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Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time

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Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented		Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time

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Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented	Open and Free. No charge	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time

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Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time
Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time

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Bathymetry and Elevation	Search via reference catalogue (e.g. MyOcean, GEOSS Geoportal?)	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online discovery and downloading services	Not or not well documented	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time

The uncertainties here are related to rather insufficiently documented data policy, pricing and low data responsiveness.

## Challenge 11: Alien species

The table below presents availability indicators for all data sets related to Ch11 Alien species (24 data sets, 2 P02 characteristics category, see tables 7.1 and A1.1).

Category - P02 - Category of characteristics	Availability / Visibility / Easily found	Availability / Visibility / EU catalogue service	Availability / Accessibility / Visibility of data policy	Availability / Accessibility / Data delivery mechanisms	Availability / Accessibility / Data Policy	Availability / Accessibility / Pricing	Availability / Accessibility / Readiness	Availability / Performance / Responsiveness
Zooplankton taxonomy-related abundance per unit volume of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is no information at all on data policy adopted by data providers	No information was found on data delivery mechanisms	Restricted	Not or not well documented	Proprietary format and not well documented	No information is found on response time
Zooplankton taxonomy-related abundance per unit volume of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is no information at all on data policy adopted by data providers	No information was found on data delivery mechanisms	Accessible under moratorium	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time

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Zooplankton taxonomy-related abundance per unit volume of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	No information was found on data delivery mechanisms	Restricted	Not or not well documented	Proprietary format and not well documented	No information is found on response time
Zooplankton taxonomy-related abundance per unit volume of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	No information was found on data delivery mechanisms	Restricted	Not or not well documented	Proprietary format and not well documented	No information is found on response time
Zooplankton taxonomy-related abundance per unit volume of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	No information was found on data delivery mechanisms	Accessible under moratorium	Not or not well documented	Format not proprietary and content clearly specified (e.g. autodescriptive like ODV, NetCDF CF) or at least with appropriate document describing the content	No information is found on response time



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Category - P02 - Category of characteristics	Availability / Visibility / Easily found	Availability / Visibility / EU catalogue service	Availability / Accessibility / Visibility of data policy	Availability / Accessibility / Data delivery mechanisms	Availability / Accessibility / Data Policy	Availability / Accessibility / Pricing	Availability / Accessibility / Readiness	Availability / Performance / Responsiveness
Zooplankton taxonomy-related abundance per unit volume of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	No information was found on data delivery mechanisms	Restricted	Not or not well documented	Proprietary format and not well documented	No information is found on response time
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## Sea Basin Checkpoint Lot 4: Black Sea

D 15.4 Annex 3  
Version: V3  
Date: 05/04/2018

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Zooplankton taxonomy-related abundance per unit volume of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online downloading services	Unrestricted	Distribution charge	Format proprietary but content clearly specified	less or equal to 1 week
Zooplankton taxonomy-related abundance per unit volume of the water column	Use of open search engines, searching by name either the data provider or the characteristics	The datasets are referenced in a public national catalogue, in an international catalogue service	There is information, but details are available only on request	Online downloading services	Unrestricted	Distribution charge	Format proprietary but content clearly specified	less or equal to 1 week
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Lot 4: Black Sea**

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This challenge demonstrates very low availability indicators apart from Easily Found indicator.