9th EMODnet Steering Committee Meeting
Alcudia, Mallorca 21-23.03.2018

Update from Black Sea Checkpoint

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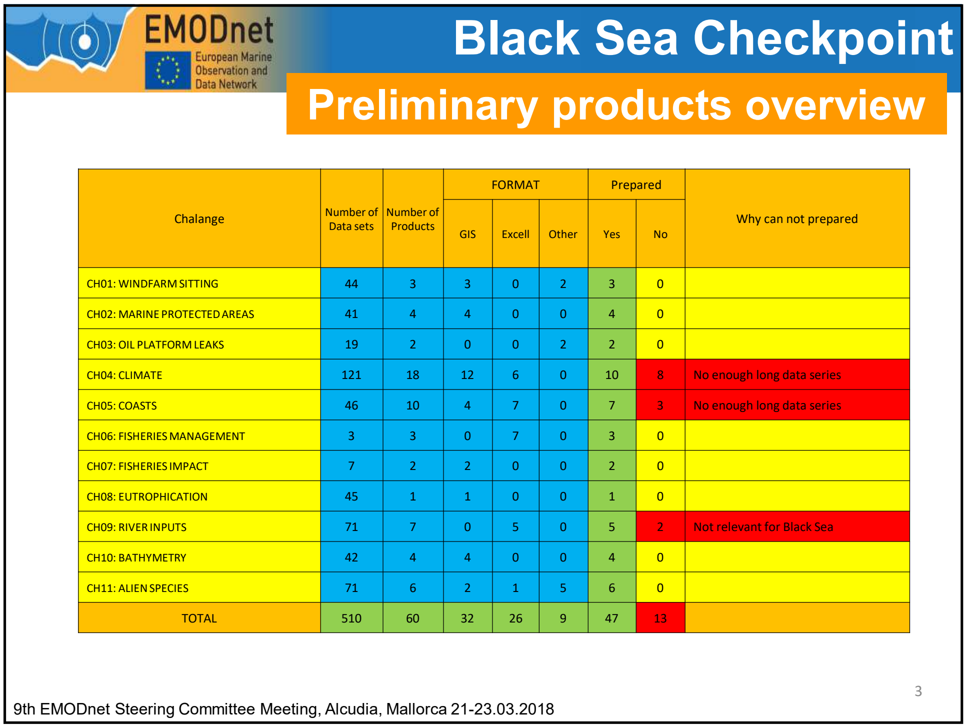
HTTP://WWW.EMODNET-BLACKSEA.EU/

Black Sea Checkpoint

Schedule to the end of the project

Month	Date	Type	Delivarable
33	15.4.2018	Interim report	Second DAR
34	15.5.2018	2nd Panel meeting May 9-10 2018 Istanbul	Presentation to panel
36	15.7.2018	Interim report	Second panel report
36	15.7.2018	Final report	Art 1.4.3. of the Service contract



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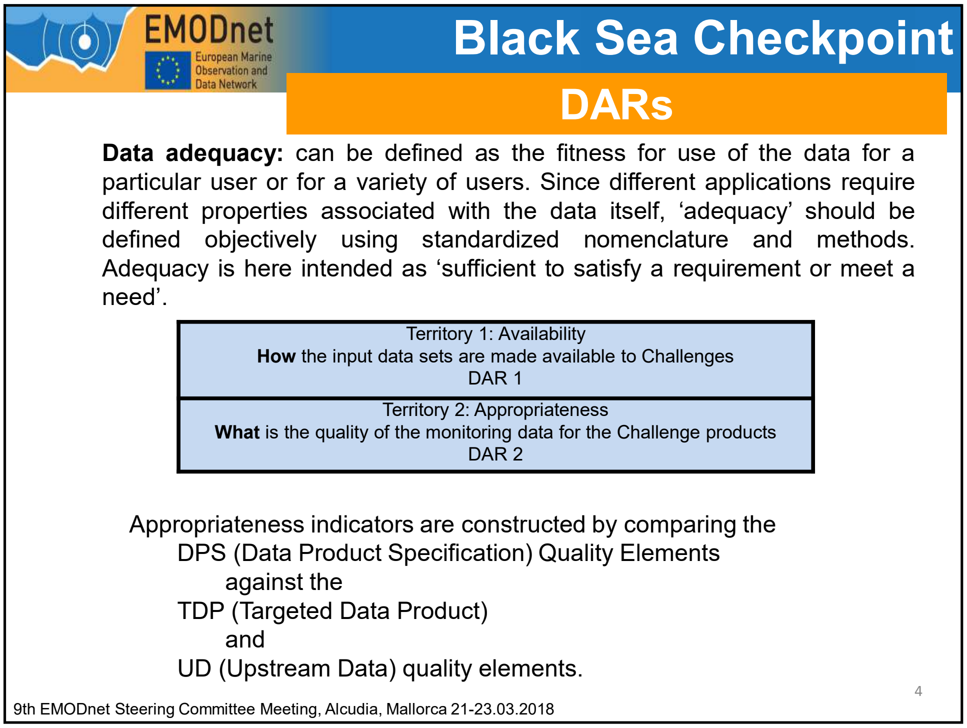
Preliminary products overview

Chalange	Number of Data sets	Number of Products	FORMAT			Prepared		Why can not prepared
			GIS	Excell	Other	Yes	No	
CH01: WINDFARM SITTING	44	3	3	0	2	3	0	
CH02: MARINE PROTECTED AREAS	41	4	4	0	0	4	0	
CH03: OIL PLATFORM LEAKS	19	2	0	0	2	2	0	
CH04: CLIMATE	121	18	12	6	0	10	8	No enough long data series
CH05: COASTS	46	10	4	7	0	7	3	No enough long data series
CH06: FISHERIES MANAGEMENT	3	3	0	7	0	3	0	
CH07: FISHERIES IMPACT	7	2	2	0	0	2	0	
CH08: EUTROPHICATION	45	1	1	0	0	1	0	
CH09: RIVER INPUTS	71	7	0	5	0	5	2	Not relevant for Black Sea
CH10: BATHYMETRY	42	4	4	0	0	4	0	
CH11: ALIEN SPECIES	71	6	2	1	5	6	0	
TOTAL	510	60	32	26	9	47	13	



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DARs

Data adequacy: can be defined as the fitness for use of the data for a particular user or for a variety of users. Since different applications require different properties associated with the data itself, ‘adequacy’ should be defined objectively using standardized nomenclature and methods. Adequacy is here intended as ‘sufficient to satisfy a requirement or meet a need’.

Territory 1: Availability **How** the input data sets are made available to Challenges DAR 1
Territory 2: Appropriateness **What** is the quality of the monitoring data for the Challenge products DAR 2

Appropriateness indicators are constructed by comparing the
DPS (Data Product Specification) Quality Elements
against the
TDP (Targeted Data Product)
and
UD (Upstream Data) quality elements.

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DAR 2

Appropriateness quality elements nomenclature

Definitions	Name of Appropriateness Quality Elements
Completeness	
Horizontal Spatial Coverage	AP-1-1
Vertical Spatial Coverage	AP-1-2
Temporal Coverage	AP-1-3
Consistency	
Number of Characteristics	AP-2-1
Accuracy	
Horizontal Resolution	AP-3-1
Vertical Resolution	AP-3-2
Temporal Resolution	AP-3-3
Thematic Accuracy	AP-3-4
Temporal Quality	
Temporal Validity	AV-4-1

The basic idea of appropriateness indicators is that they are related to “errors” in the Quality Elements just defined. Appropriateness corresponds then to “low” errors in the specific quality element.

“Errors” for quality elements are defined as the differences between what has been realized and what was “expected” or “required”. DPS includes the requirements or expectations while TDP and UD are the actual products and input data sets used respectively.

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Evaluation of Targeted Products from expert opinion

The objective is to provide an expert evaluation of the “fitness for purpose and use” for each Targeted Product.

The challenge teams were asked to provide the following information:

1. **Assign an overall product quality score with respect to scope (fitness for purpose) and explain why according to the scale in the next Table;**
2. **Explain what are the most important characteristics for the Targeted Product quality (if all characteristics are important please say so);**
3. **Explain what are the quality elements of the most important characteristics that affects the Targeted Product quality;**
4. **Explain the limitations on the quality of Targeted products due to the input data set used;**
5. **Explain which characteristics “fails the most” to meet the scope of the Targeted Product;**
6. **Provide an expert judgment to describe for each Targeted Product the most important gaps in the input data sets.**

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Evaluation of Targeted Products from expert opinion

Targeted Products quality scores and their meaning

SCORE	NAME	MEANING
1	**EXCELLENT**	Completely meets the scope of the Targeted Product
2	**VERY GOOD**	Meets more than 70% of the scope of the Targeted Product
3	**GOOD**	Meets less than 50% of the scope of the Targeted Product
4	**SUFFICIENT**	Does not adequately meet the scope but is a starting point
5	**INADEQUATE**	Does not fulfill the scope and is not usable

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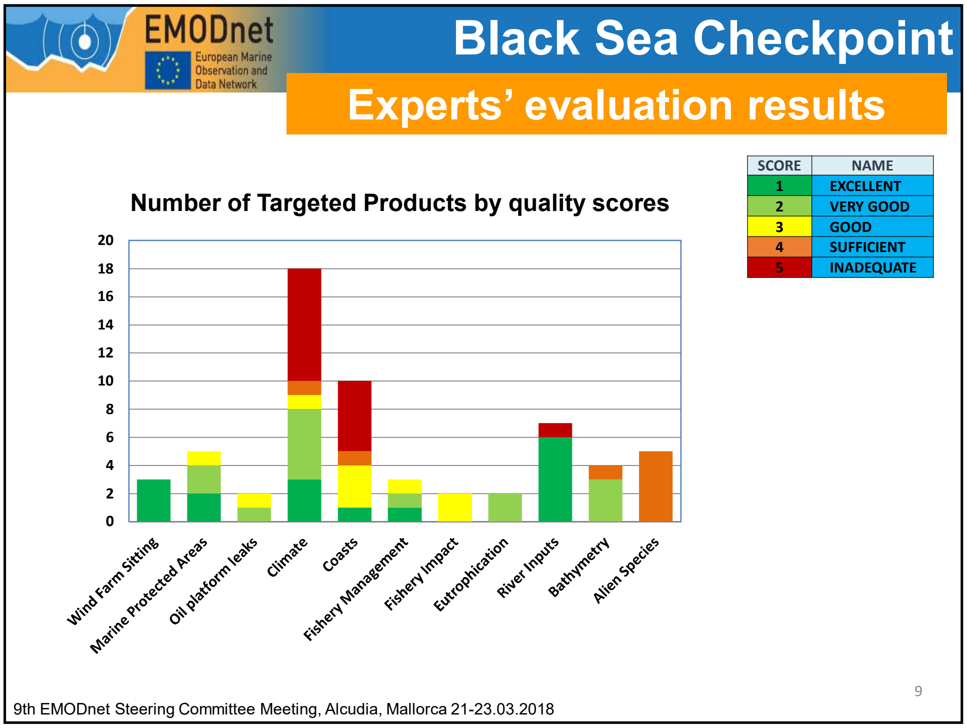
Experts' evaluation results

CHALENGE	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10	CH11
NAME	Wind Farm Sitting	Marine Protected Areas	Oil platform leaks	Climate	Coasts	Fishery Management	Fishery Impact	Eutrophication	River Inputs	Bathymetry	Alien Species
Targeted Products	3	5	2	18	10	3	2	2	7	4	5
1	1	2	3	1	1	1	3	2	1	2	4
2	1	2	2	2	3	3	3	2	1	2	4
3	1	3		2	3	2			1	2	4
4		1		5	3				1	4	4
5		1		5	4				1		4
6				5	5				1		
7				5	5				5		
8				5	5						
9				5	5						
10				1	5						
11				5							
12				5							
13				1							
14				2							
15				2							
16				2							
17				4							
18				3							

SCORE	NAME
1	**EXCELLENT**
2	**VERY GOOD**
3	**GOOD**
4	**SUFFICIENT**
5	**INADEQUATE**



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Experts' evaluation results

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Number of Targeted Products by quality scores

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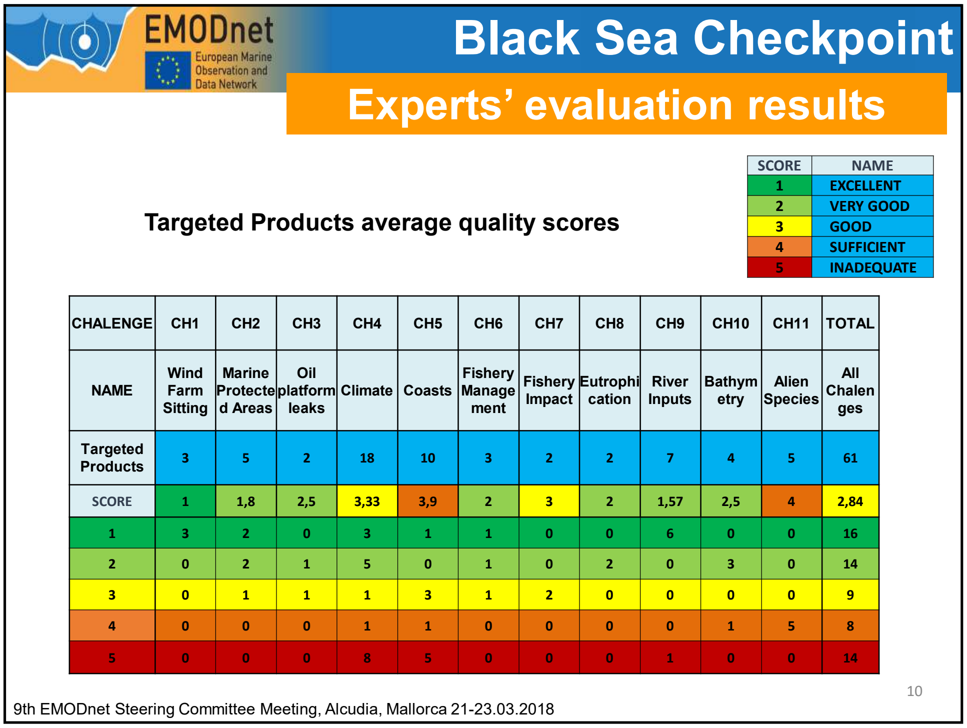
EMODnet
European Marine Observation and Data Network

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Experts' evaluation results

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Targeted Products average quality scores

CHALENGE	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10	CH11	TOTAL
NAME	Wind Farm Sitting	Marine Protected Areas	Oil platform leaks	Climate	Coasts	Fishery Management	Fishery Impact	Eutrophication	River Inputs	Bathymetry	Alien Species	All Chalenges
Targeted Products	3	5	2	18	10	3	2	2	7	4	5	61
SCORE	1	1,8	2,5	3,33	3,9	2	3	2	1,57	2,5	4	2,84
1	3	2	0	3	1	1	0	0	6	0	0	16
2	0	2	1	5	0	1	0	2	0	3	0	14
3	0	1	1	1	3	1	2	0	0	0	0	9
4	0	0	0	1	1	0	0	0	0	1	5	8
5	0	0	0	8	5	0	0	0	1	0	0	14

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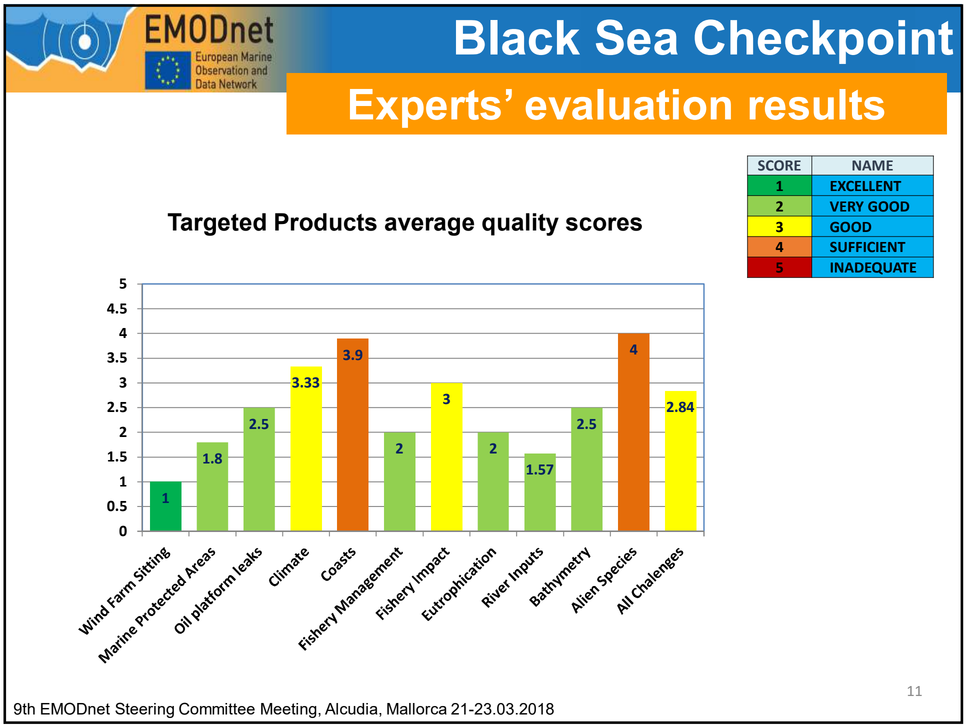

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Experts' evaluation results

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Targeted Products average quality scores

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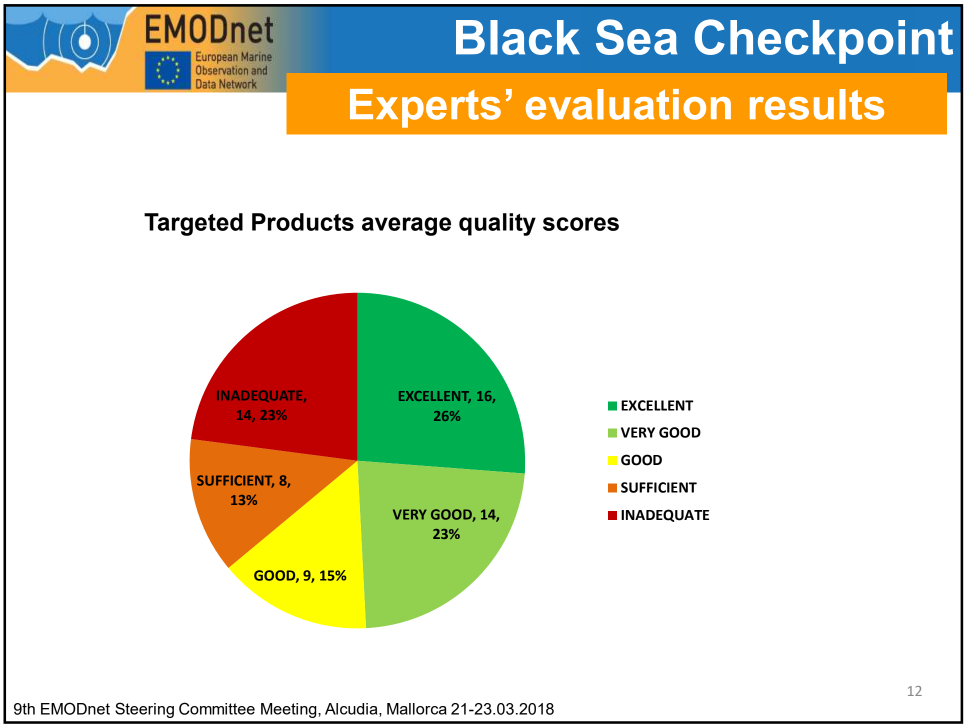

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Experts' evaluation results

Targeted Products average quality scores

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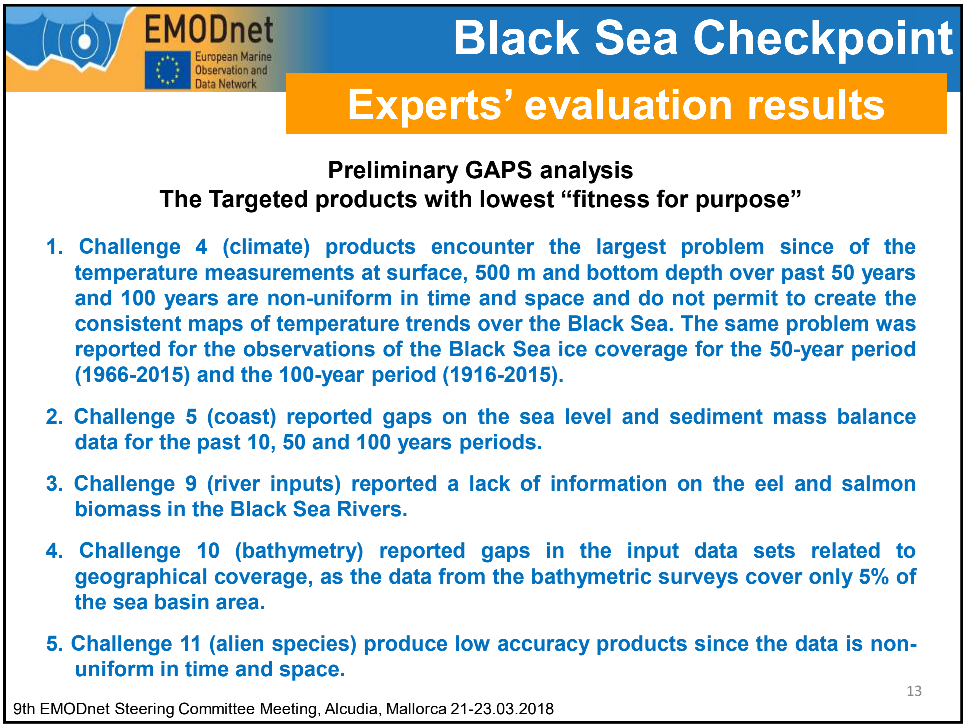

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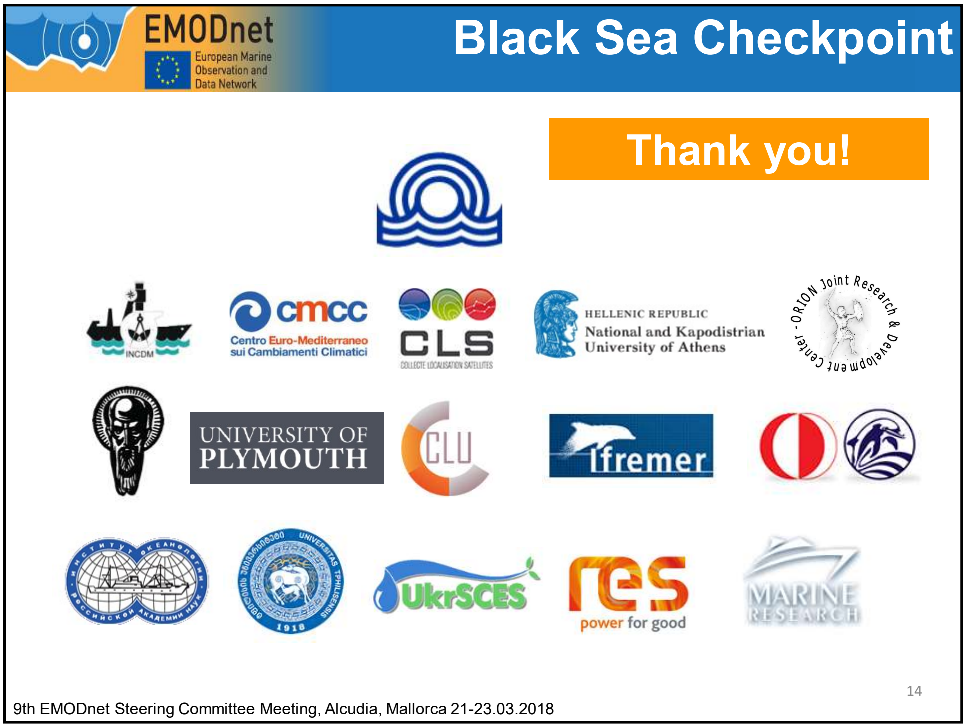
Experts' evaluation results

Preliminary GAPS analysis
The Targeted products with lowest "fitness for purpose"

1. Challenge 4 (climate) products encounter the largest problem since of the temperature measurements at surface, 500 m and bottom depth over past 50 years and 100 years are non-uniform in time and space and do not permit to create the consistent maps of temperature trends over the Black Sea. The same problem was reported for the observations of the Black Sea ice coverage for the 50-year period (1966-2015) and the 100-year period (1916-2015).
2. Challenge 5 (coast) reported gaps on the sea level and sediment mass balance data for the past 10, 50 and 100 years periods.
3. Challenge 9 (river inputs) reported a lack of information on the eel and salmon biomass in the Black Sea Rivers.
4. Challenge 10 (bathymetry) reported gaps in the input data sets related to geographical coverage, as the data from the bathymetric surveys cover only 5% of the sea basin area.
5. Challenge 11 (alien species) produce low accuracy products since the data is non-uniform in time and space.



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Thank you!