SEA BASIN CHECKPOINT
LOT4: BLACK SEA

CHALLENGE 2 - Marine Protected Areas
Expert evaluation of Targeted Products

Total number of pages:7

Workpakage:	CH2	Marine Protected Areas	
Author(s):	Magda-Ioana Nenciu		NIMRD
	Violin Raykov		IO-BAS

A project funded by:

EUROPEAN COMMISSION, EXECUTIVE AGENCY FOR SMALL AND MEDIUM ENTERPRISES

Document Log

Date	Author	Changes	Version	Status
15/02/2018	Magda-Ioana Nenciu		V1.0	Draft
	Violin Raykov		V 1.0	Draft
4/04/2018	Magda-Ioana Nenciu	Corrections & Additions	V 2.0	Completed

Table of content

Expert evaluation of Targeted Product quality

Please use your own judgement to describe for each Targeted product of the assessment of the "fitness for purpose and use". For each Targeted product please comment on the following points:

1) Assign an overall product quality score with respect to scope (fitness for purpose) and explain why, according to the scale in Table 1.

2) Identify the most important characteristic(s) for the Targeted Product quality (if all characteristics are important, please say so).

3) Identify and explain what is (are) the quality element(s) of the most important Characteristic(s) that affects the Targeted product quality.

4) Identify and explain the limitations on the quality of Targeted products due to the input data set used (fitness for use).

5) Comment and explain which Characteristics and respective data set "fails the most" to meet the scope of the Targeted product (fitness for use).

6) Provide an expert judgement of the most important gaps in the input data sets for each Targeted Product

SCORE	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

Table 1. Targeted Products quality scores and their meaning.

BLACKSEA_CH02_Product_1

1. The product's quality score is **VERY GOOD (2)**, the sub-components of the product covering most of the targeted aims of the overall product.
2. The product considers a unique characteristic. The most important details for this product include the name of the protected area, date (year) of designation, type of designation and legal status (e.g. under EU legislation, international convention, or national mechanism), location of the protected area (coordinates; GIS polygon), size of the designated area (marine component) (km^2), biodiversity protected features (type of marine features being

protected, i.e. habitats, species, ecosystems) and management measures in place (IUCN categories, management plans).

3. **Spatial extent**: the product covers the entire Black Sea basin, the sub-components focusing on specific areas and classification criteria (ecoregion, national, international, Natura 2000 protected sites). (2 x 2 km grid).
   Usability: the product is easy to understand and use.
   Logical consistency: the targeted product agrees with the format required.
   Thematic accuracy: the values reported in the targeted product are close to the true values at the highest level of correctness

4. There are no limitations on the use of this product. The information used is accurate and based on reliable databases (SINCRON, SIMSHAB, EU CoCoNet project). The list of MPAs for the Black Sea is comprehensive and the spatial resolution is adequate.

5. The conservation features and management measures of Black Sea MPA databases need to be updated, and management plans are often missing. The most detailed information for the Black Sea MPAs is available for SCIs (sites of Community Importance).

6. Gaps: The conservation features and management measures of Black Sea MPA databases need to be updated, and management plans are often missing. The most detailed information for the Black Sea MPAs is available for Natura 2000 sites (Romania and Bulgaria).

BLACKSEA_CH02_Product_2

1. The product's quality score is **VERY GOOD (2)**, the sub-components of the product covering most of the targeted aims of the overall product.
2. The most important characteristics of this product are habitat type and distribution.
3. **Spatial extent**: the product covers Romanian and Bulgarian waters (EU waters, Habitats Directive), only the last sub-component covers the whole Black Sea (EU Sea Map) (2 x 2 km grid).
   Usability: the product is easy to understand and use.
   Logical consistency: the targeted product agrees with the format required.
   Thematic accuracy: the values reported in the targeted product are close to the true values at the highest level of correctness.
4. There are no limitations on the use of this product. The information used is accurate and based on reliable databases (SINCRON, SIMSHAB, EU CoCoNet project).
5. None of the characteristics and respective data sets fails to meet the scope of the Targeted Product (fitness for use). Seabed habitats are often indicative of marine communities and ecological processes.
6. No specific gaps are identified

BLACKSEA_CH02_Product_3

1. The product's quality score is **GOOD (3)**, the sub-components of the product covering only partly the targeted aims of the overall product.
2. The most important characteristics of this product are focused on biodiversity.
3. **Spatial extent**: the product covers Romanian and Bulgarian waters (EU waters,) (2 x 2 km grid).
   Usability: the product is easy to understand and use.

Logical consistency: the targeted product agrees with the format required.
Thematic accuracy: the values reported in the targeted product are close to the true values at the highest level of correctness

4. There are no limitations on the use of this product. The information used is accurate and based on reliable databases (SINCRON, SIMSHAB, EU CoCoNet project).

5. The characteristics that "fail the most" to meet the scope of the Targeted Product are the Black Sea cetacean, fish and birds distributions. There is a discrepancy between the limited data on the distribution of Black Sea biodiversity and and the distribution of the MPAs, the resolution of the first being very low. More detailed information on the abundance of cetaceans, fish and birds is required for the assessment of representativeness.

6. Gaps: data is available only for Romanian and Bulgarian waters, on a limited surface.

BLACKSEA_CH02_Product_4

1. The product's quality score is **EXCELLENT (1)**, the sub-components of the product covering only partly the targeted aims of the overall product.

2. The most important characteristic of this product are currents.

3. **Spatial extent**: the product covers the entire Black Sea (basin-scale coverage)
Temporal extent: 2005-2015 (winter, spring, summer, autumn seasons)
Usability: the product is easy to understand and use.
Logical consistency: the targeted product agrees with the format required.
Thematic accuracy: the values reported in the targeted product are close to the true values at the highest level of correctness

4. There are no limitations on the use of this product. The information used is accurate and based on reliable databases.

5. None of the characteristics and respective data sets fails to meet the scope of the Targeted Product (fitness for use). However, high-quality, high-frequency and long time series ocean current data are necessary to develop statistical maps of connectivity, while a database of the main species populating the Black Sea MPAs and their principal larval biological information (spawning time, larval lifetime, larval behaviour, favourable larval conditions) is crucial.

6. No specific gaps are identified.

BLACKSEA_CH02_Product_5

1. The product's quality score is **EXCELLENT (1)**, the sub-components of the product covering only partly the targeted aims of the overall product.

2. The most important characteristic of this product is sea surface temperature.

3. **Spatial extent**: the product covers the entire Black Sea (basin-scale coverage)
Temporal extent: 2005-2015 (winter, spring, summer, autumn seasons)
Usability: the product is easy to understand and use.
Logical consistency: the targeted product agrees with the format required.
Thematic accuracy: the values reported in the targeted product are close to the true values at the highest level of correctness

4. There are no limitations on the use of this product. The information used is accurate and based on reliable databases.

5. None of the characteristics and respective data sets fails to meet the scope of the Targeted Product (fitness for use).

6. No specific gaps are identified.