Ocean Science

Discussions

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Interactive comment on "Core operational Sentinel-3 marine data product services as part of the Copernicus Space Component" *by* H. Bonekamp et al.

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Dear Referee 2 (anonymous),

General Answer: The authors thank the referee for the constructive review. It is agreed that the paper is not a research paper with scientific findings. Its main merit is to provide for this OS special issue a synoptic overview of the Sentinel-3 Marine Centre at EUMETSAT as the core capability to provide operational services of Sentinel-3 satellite data up to level 2 to the operational user community and in particular to CMEMS.

> 1. It was not evident to me that '(Sea Surface Temperature (SLSTR) Algorithm Theoretical Basis Document)' in lines 21-22 was a reference until I scanned the Reference

list. Is there a clearer way of writing it? e.g '(see the details in the ATBD in the reference list)' or something similar?

Answer to 1.: the authors acknowledge that the reference could be more clearly written. The text is adjusted as follows: "The SST retrieval is based on combinations of brightness temperatures weighted by coefficients which can be defined using modelled radiances followed by regression to an equation whose form accounts for view-geometric and other factors. The precise algorithms are described in the Sea Surface Temperature (SLSTR) Algorithm Theoretical Basis Document (SLSTR-ATBD, 2012)."

> 2. Figure 3 I suggest to create a single map with boxes showing the different areas and write a table with their precise limits.

Answer to 2.: The authors agree with the referee that a single map would improve the indication of the agreed regional data sets. A new map has been created and is attached to this reply. The letters indicate the data sets. Figure 3 and its caption will be updated accordingly.
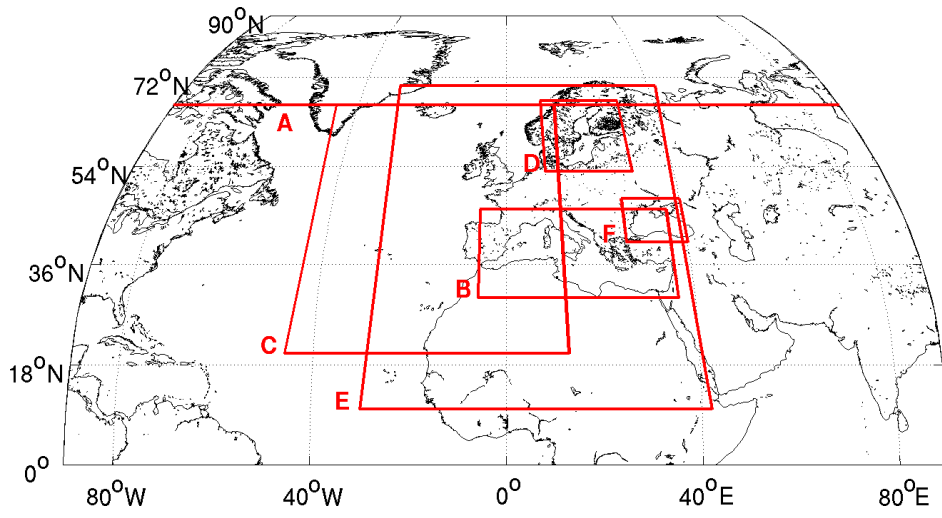
Fig. 1. new map for figure 3

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