



SPECTRUM C

TUESDAY 7 MAY (14:45 - 17:15)

SPLINTER SESSION 11

Satellite data file formats and tools for easy science exploitation

Co-CHAIRS Carsten Brockman (Brockman Consult, Germany), Bryan Franz (NASA GSFC), Simon Elliott (EUMETSAT)

14:45 - 15:20

1. Data file content and formats

- 14:45 - 15:00 NASA's perspective on ocean colour data formats and contentions (Sean Bailey, NASA GSFC)
NASA, NOAA and EUMETSAT are going to distribute various ocean colour sensor's data to the community in the future (VIIRS, OLCI, SGLI ...). First-hand feedback on how users want to get these data should be gathered during this session. This should include questions like LO distribution, NetCDF versus HDF, are CF convention most appropriate for ocean colour etc.
- 15:00 - 15:20 Discussion

15:20 - 16:20

2. Data processing, analysis and exploitation tools

- 15:20 - 15:35 Processing and validation environment MERMAID and ODESA (Véronique Bruniquel, ACRI-ST, France)
- 15:35 - 15:50 SeaDAS and BEAM user tools (Sean Bailey, NASA & Norman Fomferra, Brockman Consult)

Tools are required to understand standard production algorithms, to possibly modify them, to validate ocean colour products, to validate standard and self-generated products, and eventually to support large processing of large data volumes. Questions to be addressed should range from "shall LO to L1 processing be included", over "should the data be moved to the analyser of the analysis tool to the data", to "how shall the uncertainty information, available with future products, be supported". Previous work done by working groups, such as the Sentinel-3 Mission Advisory Group, will be a basis on which this discussion will take place.

15:50 - 16:20

Discussion

16:20 - 16:35

3. Data distribution

- 16:20 - 16:35 EUMETSAT's means and plans for distributing ocean colour data (Simon Elliot, EUMETSAT)
Based on an analysis of past experience (what is working, what is not working) recommendations shall be formulated on how to effectively distribute in NRT and offline ocean colour data. This is becoming very relevant when the data archives are rapidly growing and, on the other hand, large time series need to be analysed.

16:35 - 17:15

Review of recommendations/Discussion

OBJECTIVES

Data file content and format, meta-data, processing and analysis tools are important for working with ocean colour data, specifically when working with multi-mission datasets. These subjects have been addressed before by several authors, and hence this session will aim at delivering consensus recommendations agreed by a larger community, as represented at the IOCS conference. Tangible progress shall be achieved in getting a larger agreement by the community on concrete statements concerning common formats and exploitation tools, including data processing, validation and analysis.

The splinter will address three issues: (i) Data file content and formats, (ii) Data processing, analysis and exploitation tools and (iii) Data distribution. Each issue will be introduced by one or two keynote speakers. During the following discussions recommendations shall be formulated which will be passed to EO decision makers in the space agencies through IOCCG and CGMS (Coordination Group for Meteorological Satellites).