

Baltic+ Salinity

Progress Meeting #01



Baltic+
Salinity
Dynamics

WP200: Data User Manual

Discussion over the format files to be used in the project

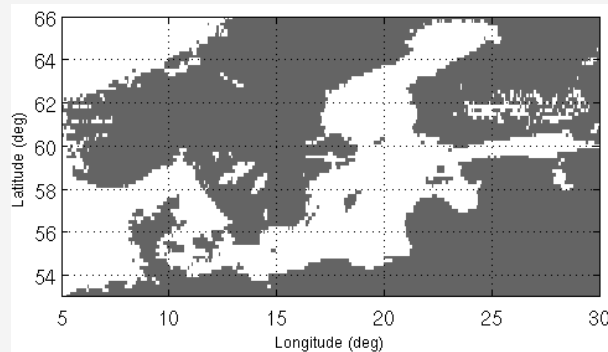
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INSTITUTE

- All the associated data, SSS products and in-situ measurements will be distributed
 - In netCDF-4 format
 - Following the Climate and Forecast (CF) Metadata conventions (at least v1.6)
 - Compression applied and time dimension defined as a record dimension.
- The format of the generated Baltic+ SSS products will also be compliant with the ESA CCI SSS.
- Data will be distributed through the BEC secure FTP service <ftp.icm.csic.es>, available through port 27500. This ftp server will be available before June 2019.

| Baltic+ L3 SSS product | |
|-----------------------------|---|
| Processing level | L3 |
| Geographical coverage | 5°E -> 30°E; 53°N -> 66°N |
| Spatial resolution | 0.25° x 0.25° |
| Coordinate reference system | WGS 84 |
| Temporal coverage | v1: From 2011-01-01 to 2013-12-31 v2: From 2011-01-01 to present |
| Temporal resolution | 9 days average (generated every day) |



Variables included in the L3 netcdf file:

```
time  
latitude  
longitude  
sss  
sss_error  
sss_anomaly
```

| Baltic+ L4 SSS product | |
|-----------------------------|---|
| Processing level | L4 (SMOS L3 SSS fused with OSTIA SST) |
| Geographical coverage | 5°E -> 30°E; 53°N -> 66°N |
| Spatial resolution | 0.05° x 0.05° |
| Coordinate reference system | WGS 84 |
| Temporal coverage | v1: from 2011-01-01 to 2013-12-31 v2: from 2011-01-01 to present |
| Temporal resolution | daily |

FILENAME CONVENTION:

```
<processing_center>-<processing_level>-<variable>-<area>-  
<spatial_resolution>-<start_date>_<end_date>-<version>.nc
```

Examples:

```
BEC-L3-SSS-BALTIC-0.25d-20120201_20120210-v1.0.nc (L3 products)
```

```
BEC-L4-SSS-BALTIC-0.05d-20120201_20120210-v1.0.nc (L4 products)
```

Variables included in the L4 netcdf file:

```
time  
latitude  
longitude  
14_sss  
14_sss_error  
14_sss_anomaly
```

- In-situ data collocated with the SMOS measurements will be distributed.
- The format of the data files delivered under this project follows the format defined in the ESA PI-MEP project.
- The in-situ based observations have been grouped as:
 - Group 1 (punctual measurements)
 - ARGO profilers
 - Moored stations
 - CTD measurements
 - Group 2 (continuous measurements)
 - TSG data installed on Voluntary Observing Ships & Research Vessels
 - Dedicated campaigns data

FILENAME CONVENTION:

```
ESA_ITT+Baltic-<processing_level>-<area>-<insitu_sensor_type>-  
<date_ini>-<date_end>-v<product_version>.nc
```

Example:

```
ESA_ITT+Baltic-L3-BALTIC-ARGO-20120201_20120210-v1.0.nc
```

Variables included in the netcdf:

```
latitude_insitu  
longitude_insitu  
insitu_date  
sss_insitu  
latitude_satellite  
longitude_satellite  
sss_satellite  
sst_insitu  
coast_distance  
depth_insitu  
time_lags  
spatial_lags  
sss_gradient_insitu (group 1)  
sst_gradient_insitu (group 1)
```