Scientific quality of Mercator Ocean global analyses and forecast in 2016

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In the framework of the Copernicus Marine Environment Monitoring Service CMEMS, Mercator Ocean provides weekly analyses and daily updated 10-day forecasts of the global physical ocean at high resolution (1/12° horizontal grid, hourly outputs at the surface). Mercator Ocean also disseminates weekly updated estimates of the biogeochemical state of the ocean.

The scientific quality of the products is controlled daily, and changes are monitored with a well-defined series of metrics, at the monthly, quarterly and yearly frequencies. This monitoring, also applied systematically to new versions of the production systems, allows to assess the strengths and weaknesses of the systems, and to quantify the improvements of new versions before the entry into service.

This poster will display the results of the scientific qualification of Mercator Ocean’s ocean analyses and forecast over the year 2016: error will be quantified for the physical ocean, sea ice and biogeochemical variables, at the scale of oceanic basins. Some major ocean large scale signals happening during year 2016 will be highlighted.