



Met Office

Initial results assimilating L3 GlobColour data in the Met Office FOAM-NEMO-HadOOC model

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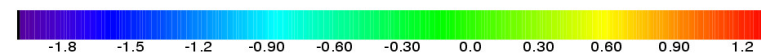
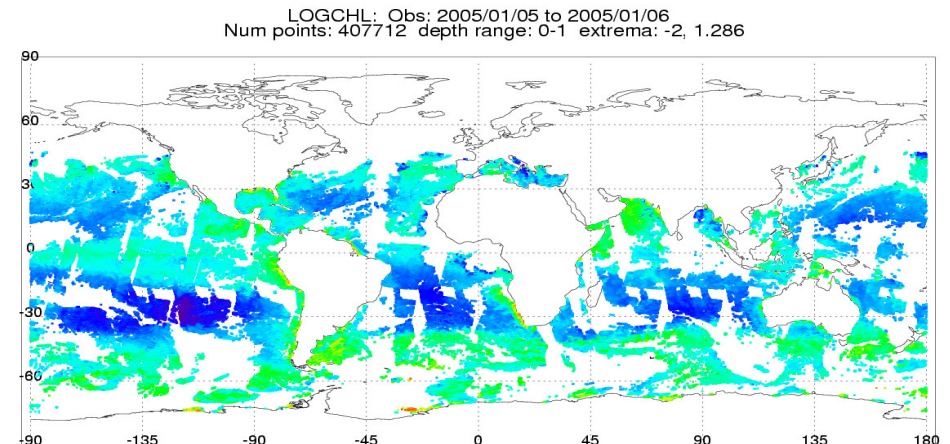
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GlobColour Project



- Goals:
 - test operational capability of NRT GlobColour service.
 - test impact of assimilation of GlobColour products on carbon cycle diagnostics such as surface and profile chl, and primary production.
- Data assimilation scheme implemented & tested with SeaWiFS data in FOAM-UM-HadOCC system in 2007.
- Now implemented in FOAM-NEMO-HadOCC with merged (MODIS and MERIS) L3 GlobColour data.
- Hindcast has been transitioned to daily near-real-time run at the end of June 09.



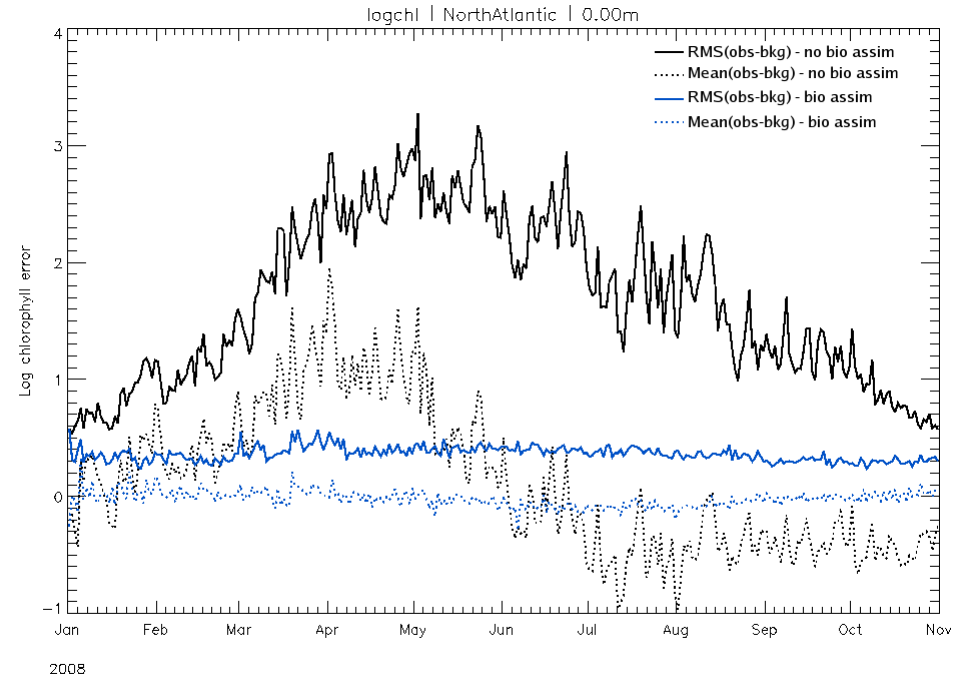
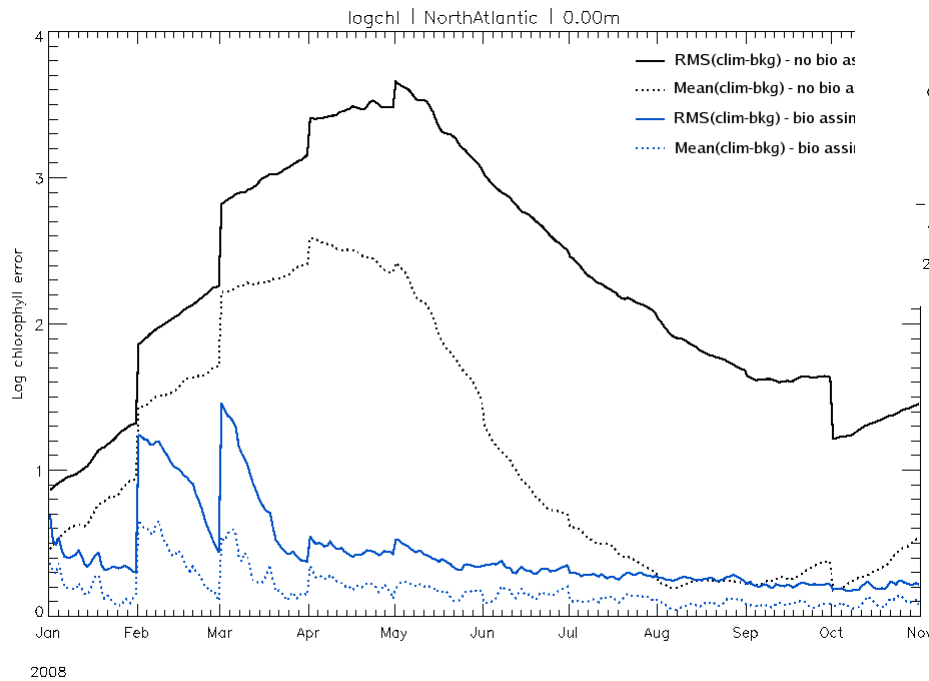
Log₁₀(chl)



Initial Results: Model – Observations



Model – Climatology



These figures show the bias and rms error in log chl for one year of assimilation over the North Atlantic. When chl is assimilated (blue) the results are better than the physics only (black). Solid = rms and dotted = bias