



Daily oceanographic analysis scheme in the Mediterranean Sea

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Modifications of the Optimal Interpolation scheme, used in the basin scale assimilation scheme of the Mediterranean Forecasting System, include a daily analysis cycle, the assimilation of ARGO float profiles, the implementation of the geostrophic balance in the background error covariance matrix and the initialisation of the analyses. A series of numerical experiments showed that each modification had a positive impact on the accuracy of the analyses. This presentation will show the implementation of modifications and how they improve the accuracy of the analyses.