

Interactive comment on “Enhancing temporal correlations in EOF expansions for the reconstruction of missing data using DINEOF” by A. Alvera-Azcárate et al.

Anonymous Referee #2

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General comments: In this paper the authors explore the use of DINEOF (new version) in order to reconstruct missing data in SST satellite images. The paper is well written and the different facts correctly presented, the tests are rigorous and informative, and the conclusions are sustained by the results.

Only one question: The First temporal node exists a seasonal cycle. “the first EOF mode (accounting for 98.12% of the total variability) represents the annual cycle variations of the Black Sea SST, with the cyclonic, coastal-trapped, basin-wide Rim Current the most prominent feature in the spatial maps”. Why have not you worked with anomalies ?. For example Daily night-time Sea Surface Temperature (SST) – 8day cli-

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matology data <http://podaac.jpl.nasa.gov>) .I would expect the first node with variability lower than the seasonal cycle and more EOFs nodes with more variability. And the cross-validation could be minor with and without filter. I would like know you opinion.

Interactive comment on Ocean Sci. Discuss., 6, 1547, 2009.