

This is my second review of the manuscript OS-2018-15. I acknowledge that the authors have responded and incorporated all my previous comments in the revised version, and I therefore think the manuscript can be published after a very few corrections are considered by the authors.

P2 Line 25: "and is in charge of the global high resolution ocean analyses and forecasts" is a repetition of Line 19-20

P4L3 Suggest rephrasing:

"was run ... to catch-up the real-time analysis and forecast system by ingesting "reprocessed" input data (atmospheric forcing, observations, etc.)"

I think the word "databases" is too vague in this context

L23

"current NEMO 3.6 stable version that is now the standard version of the code. "

I think it is better to say "the latest official release of NEMO" instead of "stable", "current" or "standard"

P9L7: It is clearer now, however it would be better to state explicitly that the inter-annual signal of the background errors is present only in the hindcast (reprocessed system) and not in the real time system, if I understand correctly. Suggest indeed writing clearly the differences between these two systems

Is the QC1 (Equation 1 ) able to retain observations with large innovations but far from climatology? (in case of regimes far from climatology) If so, suggest stating it clearly

P15L21 ", whose motions"

Section 3.4.1

I think the title itself is not clear, what is anomaly in this context? Innovations or analysis increments? It is important to make clear if the filtering is applied to the assimilation inputs (innovations) or outputs (analysis increments)

Section 3.4.1

If there is a reference about effective resolution of DUACS, would be good to insert it

Change the occurrences of "doesn't/don't" to "does not/do not"