

Interactive comment on “DUACS DT-2018: 25 years of reprocessed sea level altimeter products” by Guillaume Taburet et al.

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This paper presents findings from assessment of the quality of the DT-2018 products versus DT-2014. I find that the most convincing improvement is near coast and in the Med Sea and the Black Sea. The interpretation of the open ocean performance is not compelling. The following are some specific comments:

P.1 Introduction- I'd suggest adding some text on the history of altimetry missions over the past 25 years.

p.2 last line- Is the data from Hayaing-2 A incorporated in DT2018?

p.3 first line- What about the data distribution by NASA? Line 6- is the altimetry community represented by the OSTST? If so, please mention it.

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p.5 first line- cite Table 2 when the mean period (MP) is first introduced. Line 5- what is "upstream measurements"? Line 17- give a reference for the MSS. Line 18 - delete "of" after "benefit" Line 24 - What is "Theoretical Track"?

p.6 line 11-give reference for the MSS

p. 7 line 16- delete "at" after "be" line 29-30 - Is "additional variance for high variability regions in DT2018" an improvement? if so, why?

p.8 line4- why is the difference of variance important? What does it mean? Line 9- How is the EKE at the equator computed while geostrophy breaks down there? Line 11- What does it mean by "less important"? Line 16- Given the issue of geostrophy near the equator, how would one interpret the equatorial EKE reduction as improvement?

p.9 line 4- Is the fact that DT2018 products underestimate absolute geostrophic current an improvement? If not, what is the interpretation? line 5- The equatorial regions in Fig 6 are blocked but not in Fig 5? line 13 - What does it mean by "improvement is clearly visible in the intra-tropical band" while the regions are blocked in Fig 6?

p.10 line7- Please quantify the global reduction of the variance. line15 - What are the "three estimates"? I see only two in Fig 8 left.

p.11 lines 13-15- I think the information of Table 5 is sufficient and Fig 9 can be deleted. It does not convey much additional information. Line 26- Please quantify the overall improvement shown in Fig 10.

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