



Supplement of

On the uncertainty associated with detecting global and local mean sea level drifts on Sentinel-3A and Sentinel-3B altimetry missions

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Figure S1: a) Local △MSL high-frequency uncertainties (<2 months) between S3A and Jason-3 in 9°x9° resolution. b) Local △MSL medium-frequency uncertainties (between 2 months and 1 year) between S3A and Jason-3 in 9°x9° resolution.



Figure S2: \triangle GMSL trend differences between S3A, Jason-2, Jason-3, and SARAL/AltiKa, over the March 2016 to September 2017 period. The black boxes show the \triangle GMSL trend uncertainties at 68% C.L. and the grey boxes at 90% C.L.





Figure S3: a) Local \triangle MSL trends between S3B and Jason-3 after removing (the global mean trend (i.e. -3.01 mm yr-1) removed from the grid) in 9°x9° resolution. b) Confidence level of the measured Local \triangle MSL trends Local drift probability computed from local \triangle MSL trends divided by local uncertainties between S3B and Jason-3 in 9°x9° resolution.