

focusing only on the end of the period (from 2004), the Envisat MSL drift is now weaker close to -1 mm/yr (fig. 2). Over this period, Jason-1 and Envisat global MSL are in better agreement though a negative trend is displayed (-0.7 mm/yr for Jason-1 and -1.1 mm/yr for Envisat).

The precision of the MSL drift estimation is in the order of 0.5 mm/yr considering the longest altimeter period. It is depending on the accuracy of the colocation method between altimeter and in-situ measurements but also on the accuracy of the vertical movements correction.

The uncertainty associated to the absolute value of the MSL drift estimated here has to be thoroughly studied (it is preliminary results here). However, the most interesting result is the capability of this new method to detect the relative drift between different altimeter missions

mm/yr and -1.02 mm/yr, showing in both cases and MSL trend lower than for Jason-1.

Conclusion

This study aims at demonstrating the capability of these both methods to detect drift or abnormal jump in the SSH provided by altimeters. The calculation of the trend and the comparison with in-situ results can lead to assess the error on the global MSL trend and thus estimate the absolute drift. The cross-comparison between altimeter missions is able to accurately detect the MSL relative bias. Here, we underline the drift of Envisat MSL, especially at the beginning of the time period (2002-2004). Finally, these both methods are complementary as the tide gauge one samples coastal areas with a good time resolution while the T/S has a better space sampling (open ocean) but a lower time resolution.

References : - Guinehut, Le Triann and Larnicol, 2006: What can we learn from Global Alhinetry/Hydrography comparisons2 - Poster, 5 Guinehut, C. Coatanaan, A-L. Dhomps, P-Y Le Traon and G. Larnicoli: On the use of Satellite Alhineter Data in ARGO Quality Control ______



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