

Earth-Moon-Sun alignments and Tropical Climate Events

Supplementary Guide

This document gives Supplementary Information organized as follows:

1. List of acronyms (referred as Supplementary Data_Acronyms in the main paper)
2. Discussions on models and QSCAT oceanic content (Discussion_Models),
3. Discussions on tidal harmonics and orbit ephemeris (Discussions_Gravi),
4. Four Supplementary_Figures giving complements to each of the main Figures,
5. List of Supplementary references.

The Discussions sections provide information on climate, tide, scatterometry and monitoring/modelling of global “winds” and “sea level”. The reader needs not read these Supplementary sections to understand the main paper, figures nor Supplementary_Figures. We report these discussions here because we had to learn beyond our normal line of climate research in the tropics (see proposal [FERMAT, 2009](#)) in order to understand the unexpected planetary rotations that the [QuikSCAT](#) vectors display. “Winds” belong to the “Essential Climate Variables” in the current Assessment Report (2007) of the [Intergovernmental Panel on Climate Change](#), and the unexplained [OVW](#) signals detected by [QuikSCAT](#) and [ASCAT](#) satellite missions deserve attention. Throughout this Supplementary material, the readers will be able to follow some of the major steps of our work with [QuikSCAT](#), [ASCAT](#), atmospheric winds, rain, ocean tidal transports and elevations that led us to the findings reported in the main paper.