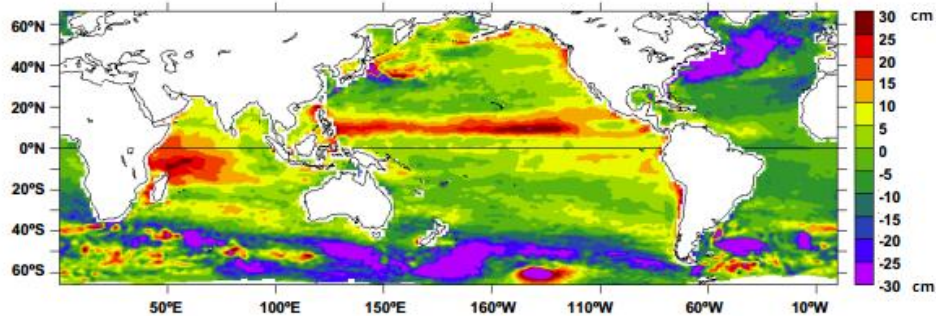
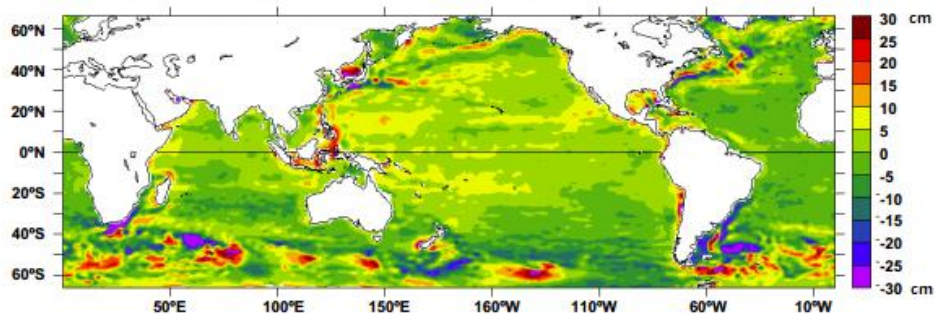


Sea Level Discrepancies between Simulations and Observations

(a) Sea Level Errors simulated with OVWs estimated from QSCAT



(b) Sea Level Errors simulated with OVWs provided by ECMWF



The Sea Levels are simulated by Ocean General Circulation Model (OGCM) experiments constrained by Ocean Vector Winds (OVW) estimated from (a) scatterometry measurements onboard **satellite QSCAT**. The observed Sea Levels are provided within 5cm accuracy by **Archiving, Validation and Interpretation of Satellite Oceanographic data (AVISO)**. Map (a) demonstrates large errors reaching 15 cm in the tropical Pacific and Indian Oceans, Map (b) obtained with OVWs produced by **European Center for Medium-range Weather Forecasts (ECMWF)** has a reasonable margin of error. Using scatterometric vectors as a surface forcing of OGCMs as prepared in 2007 for the **Working Group on Ocean Model Development (WGOMD)** makes all OGCMs simulate large errors in the tropics similar to those in Map (a).