

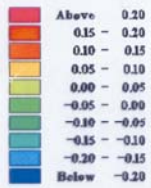
Non-tidal atmospheric and oceanic loading effects

Jean-Charles Marty and Richard Biancale (CNES/GRGS)

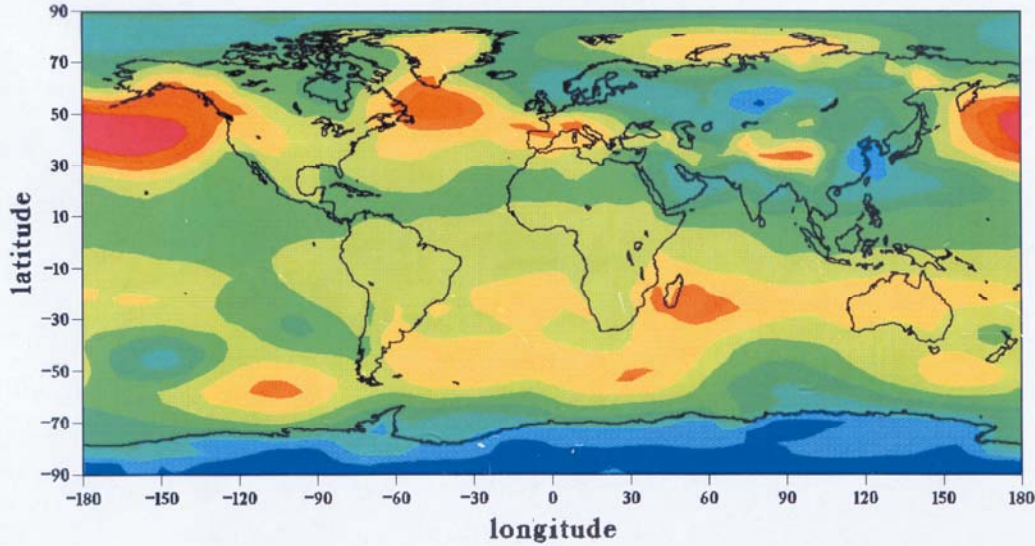
- 1) from ECMWF 6h pressure field models restricted to the continental areas (IB mode),
- 2) from ECMWF 6h pressure field models over continents and oceans + MOG2D non IB corrections.



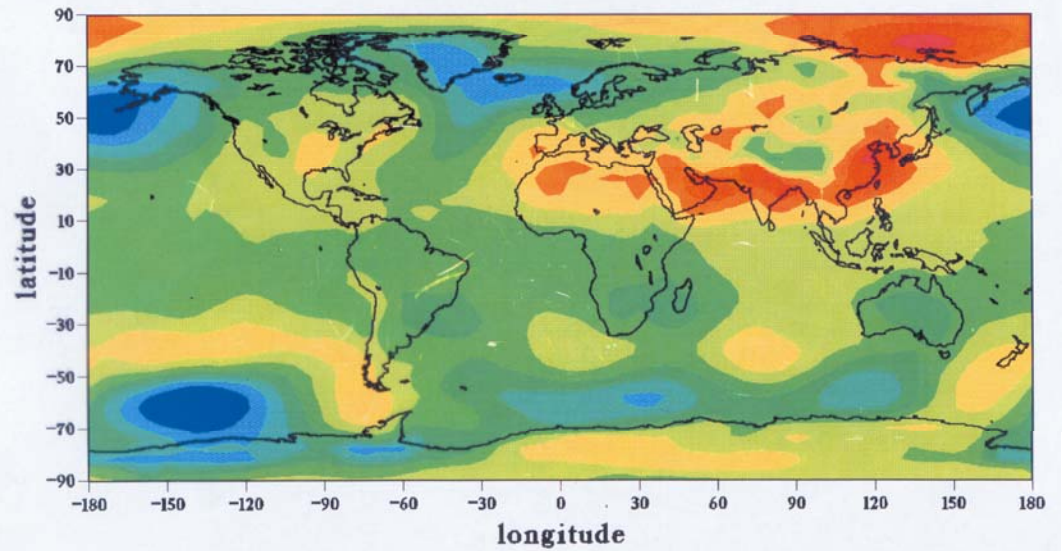
IERS Workshop on Conventions: 20-21 September 2007



MEAN ATMOSPHERIC PRESSURE VARIATIONS
 between FEBRUARY and AUGUST
 converted in water height differences
 (meters)

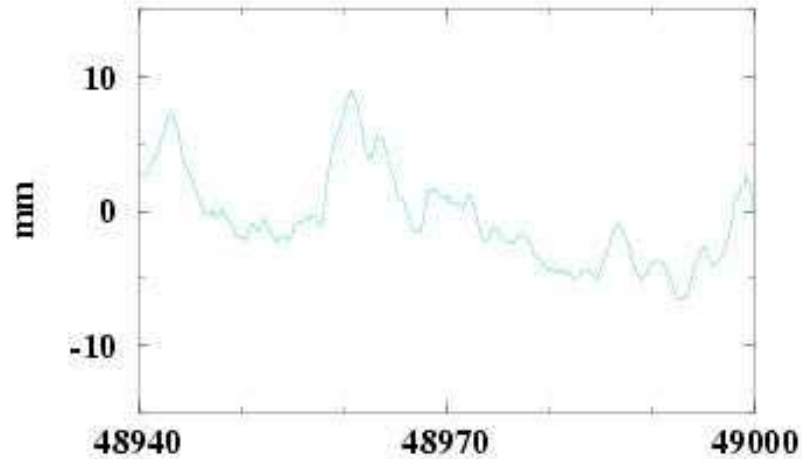


MEAN ATMOSPHERIC PRESSURE VARIATIONS
 between JUNE and DECEMBER
 converted to water height differences
 (meters)

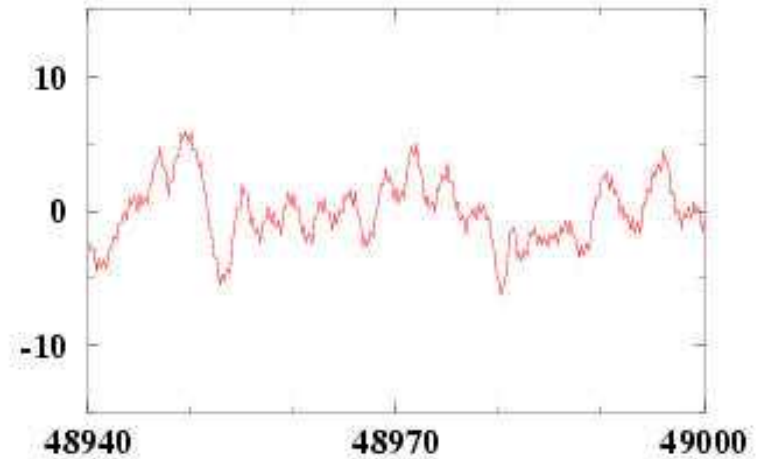


Vertical displacements induced by oceanic and atmospheric loading

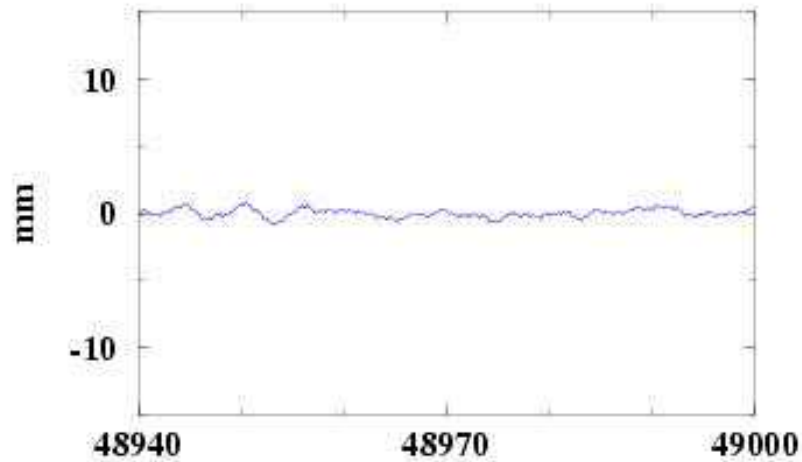
Grasse - Europe



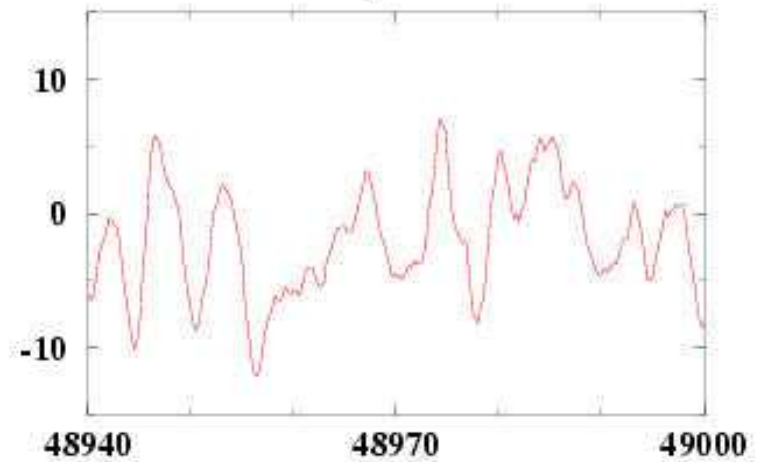
Fort Davis - North America



Maui - Pacific Ocean



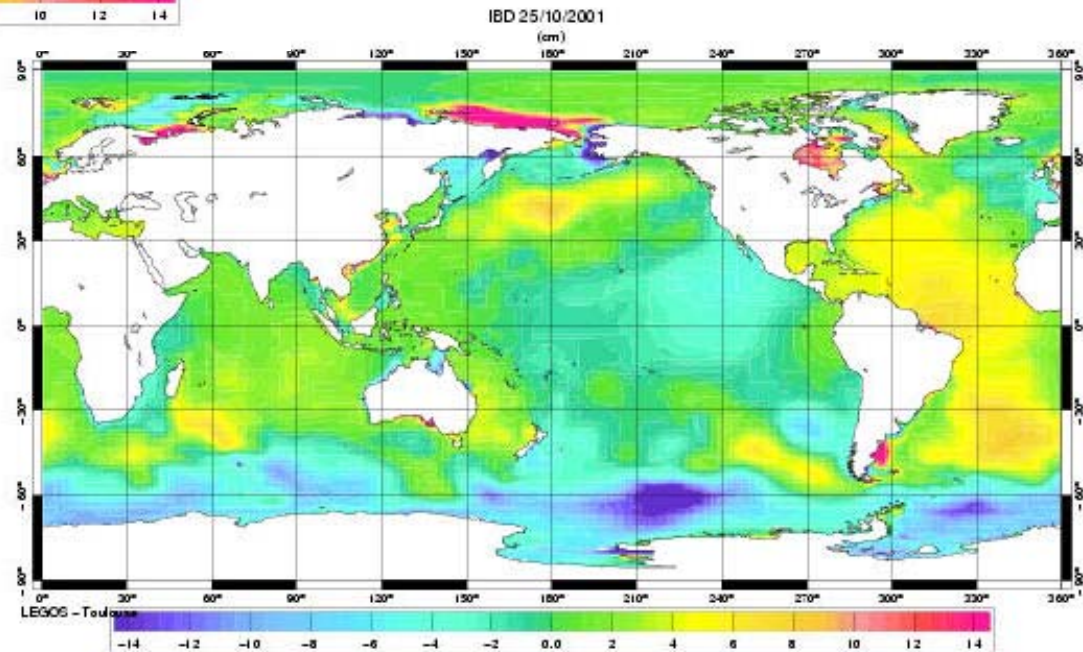
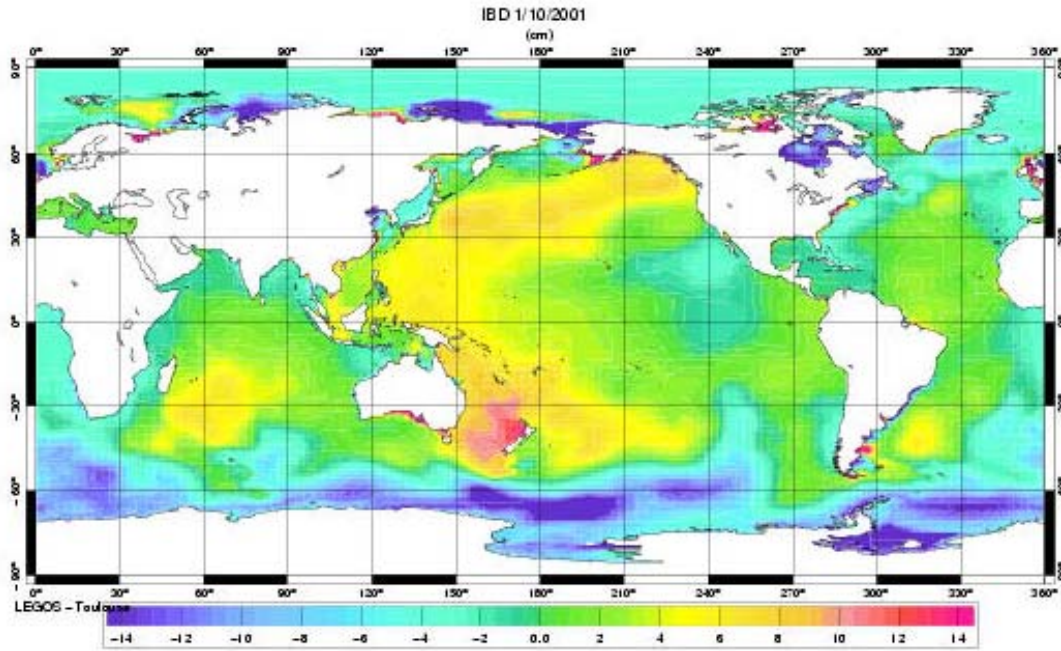
Badary - Siberia



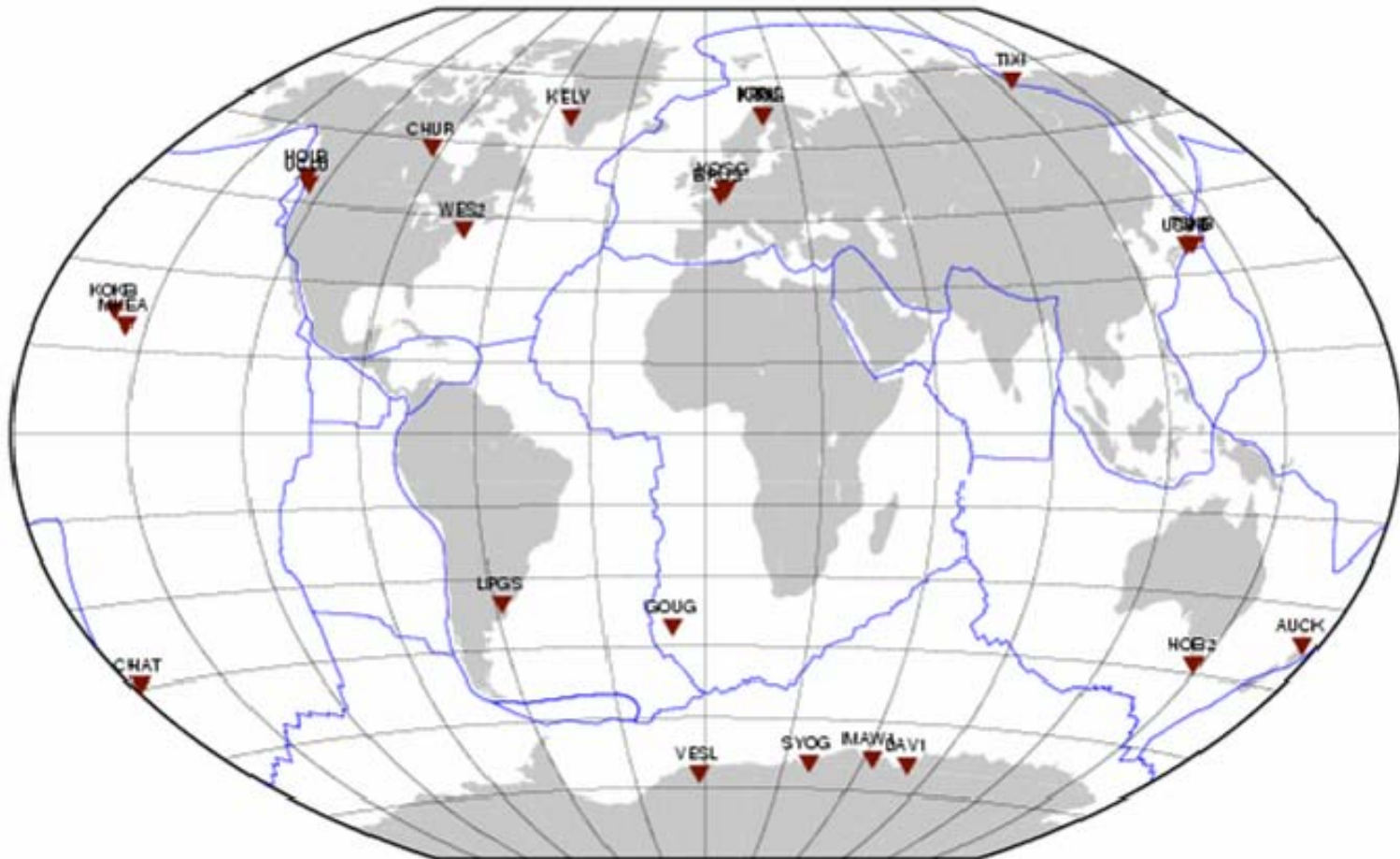
Julian Day 1950

Julian Day 1950

MOG2D vertical displacements on October 1st and 25th, 2001

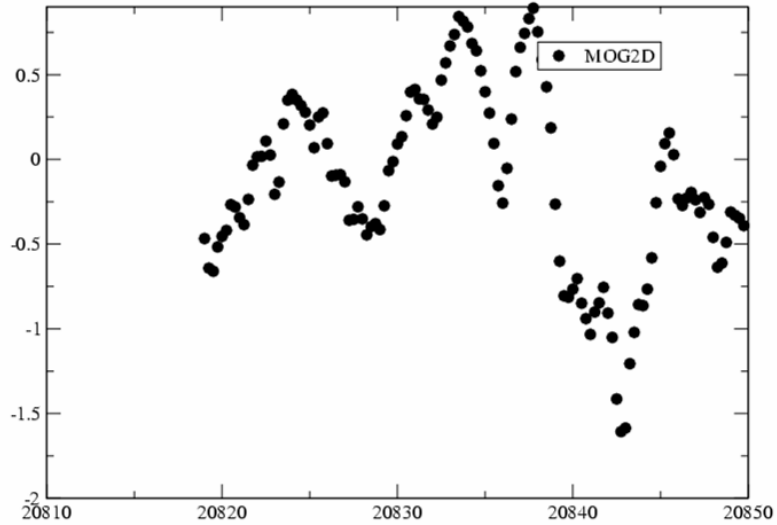


Sites with larger loading effect

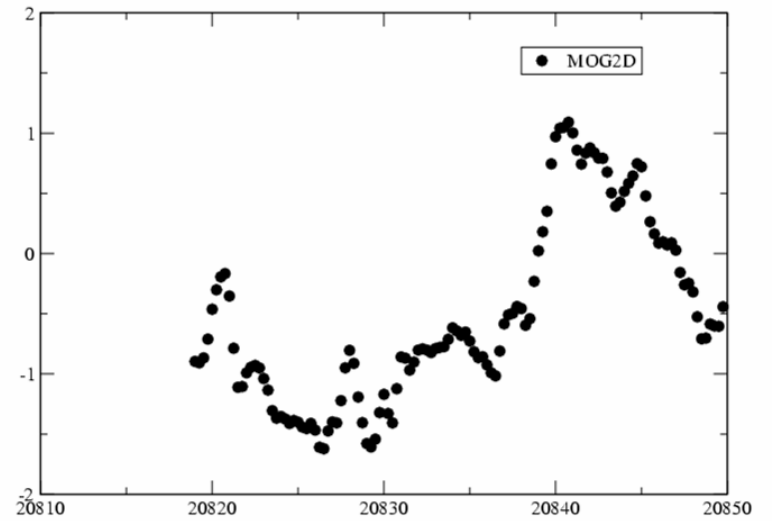


Series of loading displacement (in cm) in January 2007

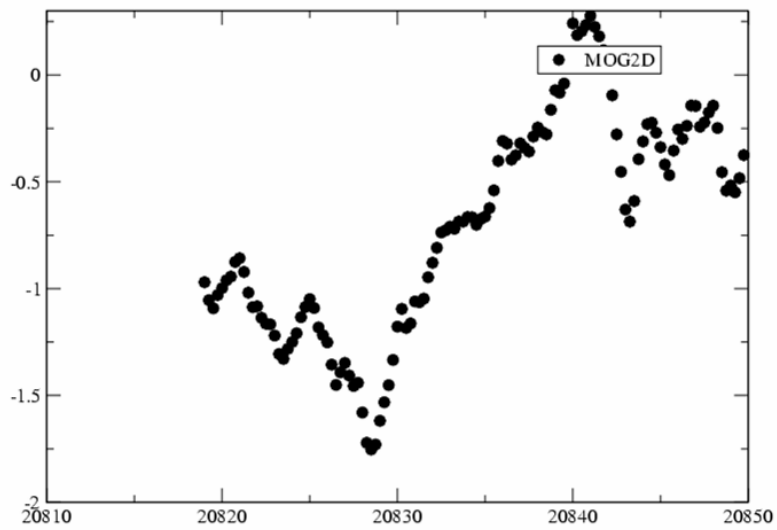
91201_KERG



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10317_NYA1



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