Sea Surface Height from Satellite Altimetry, Hydrodynamic Model and in-situ measurement of offshore Cox's Bazar







15 years satellite data (ENVISAT, SARAL & ERS2) has computed and find a referenced ellipsoid and compared with EGM2008 Model, which showed 0.15 m difference.

Comparison with Setellite altimetery reference and EGM 2008 Model



For water level from FES04 model, K_1 , K_2 , L_2 , M_2 , M_4 , N_2 , Nu_2 , O_1 , P_1 , S_2 tidal constituents for Bay of Bengal.

Tidal range found 1.5 m to -1.5 m in my Domain area. In-situ measured data is also showed same tidal range.



Sea-level anomaly is more stable found at the open ocean, but at the near at the coast of Chittagong coast sea-level anomaly found some variation about -0.6 m to 0.6 m

Thanks To All