

Relative sea-level changes,
The role of near term sea-level changes on sediment retention in estuaries

Facilitator: James Syvitski
Rapporteur: Yoshi Saito

Syvitski shows the importance of present relative sea-level changes (rises) at estuarine/deltaic coasts from integrated analysis of the combination of eustasy, hydro& glacial isostasy and compaction impact with examples from Mississippi and Amazon. By the relaxation influence of isostatic effects, sea level is rising significantly. IPCC reports do not take in to account these influences.

For the validation of his model, to use satellite data and past sea-level geological records is recommended.

Rising sea level will impact on inundation, tidal ranges and also mean sea level, hydro-dynamics.