CEM Part IV: Chapter 2 Coastal Classification and Morphology

Coastal Classification

•Classification of Specific coastal environments around the U.S.

Geologists in the 19th and 20th centuries described coastal landforms, examined their origin and development as a function of geologic character, history, and dynamic processes, and devised classification schemes to organize and refine their observations.

The most widely used classification was proposed by Francis Shepard (1973).























After a complete year of simulation, things are looking better. The attached ppt file shows that the accreted volume in the inlet area is close to the historic annual value. The second slide shows the same slide as the first, but with the areas specified for dredging in the 2006 dredging plans. The dredging area doesn't change that much from one cycle to the next according to the plans provided. The model appears to be accumulating sediment in those areas (as well as other places outside the navigation channel) which is what I believe we want. It took some of the larger wave conditions in the third 4-month simulation to see significant deposition, especially in the more northerly area. The waves may be enhancing a circulation back toward the inlet very close to shore on the west side. I will look more closely at the circulation to better understand the processes. The model now is running a

Please let me know if you see something amiss about this (for example, if the dredging area looks incorrect).

If the interpretation of the dredging plans is correct, this is one of the better morph change model calibrations that I've seen (after hammering out the hydrodynamics and getting the bay bathymetry fixed).

The second year of simulation may be done by mid next week and might be done in time for your interim report. The modeling draft report is being modified now to reflect the additions you requested and to include this latest result.



