

Basin Update Checklist

_____ Depths and land elevations are all referenced to the same common datum and traceable to NAVD-1988.

_____ Source documentation accompanies the above data including a determination of the accuracy of these data.

_____ In averaging different datasets for depths and terrain the averaging is done in a consistent manner.

_____ A map showing differences of the SLOSH grid averages from new data compared to values obtained by averaging the USGS and NGDC DEM data and documented for grid cell elevation differences exceeding (2.0??) feet is available.

_____ Barriers (height to the nearest foot) along the coastline are entered into the SLOSH database.

_____ Water channels, rivers, and streams are incorporated for water features of 1/10 grid cell width and larger including channel depth, bank height (if necessary), and flow direction relative to the grid cell.

_____ Vegetation entered into the database with a tree/no tree designation as a minimum.

_____ Data sources used in the vegetation derivation are documented.

_____ All data is formatted to SLOSH input requirements.

_____ Sub-grid cuts between barrier islands and chokes and expansions in 1-dimensional flows are incorporated as required.

_____ A database of vectorized barriers and 1-D flow channels provided to MDL.

_____ SLOSH model testing for the basin includes minimal tropical cyclones as well as intense; Cat 5 (as appropriate) hurricanes.

Hypothetical Storm Surge Studies Checklist

_____ Hypothetical storm track directions for each SLOSH basin study have been run according to detailed instructions provided.

_____ Hypothetical storm track intensity has been completed as set by Saffir-Simpson categories using the appropriate delta-P as detailed in the instructions.

_____ Hypothetical storm radius of maximum winds (RMW) were used according to detailed instructions provided.

_____ Correct tide stages for initialization of the SLOSH model runs were used.

_____ SLOSH time-history settings for .REX files are set for a maximum time step of 15 minutes.

_____ Computational instabilities are absent from all .REX files.

_____ Every envelope file computed is available for examination by NWS storm surge specialists.

_____ Each SLOSH basin the Envelopes of Highest Water (EOHW's) produced by all the hypothetical storms are composited correctly.

_____ At a minimum for each SLOSH basin the MEOW's were produced by all the hypothetical storms composited into Maximum of MEOW's (MOM's).

_____ Historical storms which have impacted the basin being studied were run on the re-built basin for comparison with the same storms in the current operational basin.

DRAFT