

9/18/2017

Detailed Instructions for bringing SLAMM results data into DMMT software

1. The assumed starting point is an uncertainty-analysis run in which maps are output for every time step.
 - a. Binary SLAMM outputs (SLB files) are recommended as they are much faster to process.
2. Bring up your simulation map in Release 6.7 (build 0240, September 2017 or later)
 - a. The simulation does not have to have been run in Release 6.7, just
 - i. create a new study (select “no” when asked about california categories if porting older study files.)
 - ii. populate the SLAMM categories, DEM, and SLOPE in file setup.
 - b. Press “Set Map Attributes”
 - c. In the “Edit Cells” tab you will see at the right top “DMMT Processing Procedures”
 - i. first step is to “load shapefile for processing.”
 - ii. Shapefile must include polygons of sites for processing in DMMT and must be in the same projection as the SLAMM Rasters.
3. Select “Extract Unc. Data using Shapefile”
 - a. First you will be prompted for the uncertainty log file associated with the runs you want to process.
 - i. The uncertainty log file must be located in the same directory as the ASC or SLB map output.
 - b. Second, select a “CSV” file to save your output into. Perhaps include “DMMT” in the file name to ensure lack of confusion with other CSV files output from SLAMM.
 - c. Third, select an optional “Length CSV file” that will be used to calculate marsh width
 - i. If you wish to estimate “wave attenuation” of marshes within the DMMT, marsh length should be estimated as the marsh surface that is parallel to the shoreline and development being protected.
 - ii. In this manner, the marsh width will then be estimated as “total marsh area divided by the marsh length.”
 - iii. The marsh width is assumed to be proportional to the degree of protection offered by the marsh to the developed land behind it.
 - d. A CSV file will be created. There is an Excel header file delivered with SLAMM to understand the CSV-file columns: (DMMT_Extract_Header.xlsx)
4. Import data into DMMT Excel File
 - a. The CSV file should be copied into the “Raw SLAMM Results” tab, starting on cell B1.
 - b. If different adaptation strategies have been run, each separate run should have its adaptation strategies labeled in column A.

- c. Data come out of the CSV automatically sorted, but if the order is modified at all, must be sorted by 1. Strategy, 2. Scenario 3. Site Description, and 4. Date
5. Modify the "Data Setup" tab
 - a. NSites -- the number of sites extracted (2-25)
 - b. NYears-- the number of years in which data were output for each simulation
 - c. NSims -- the number of uncertainty-run iterations
 - d. NCats -- can be kept at 38 unless additional information is added to the "Raw SLAMM Results" tab.
 - e. NUtil Functions -- needs to be modified if the utility function list is modified (blue tabs preceding)
 - f. Scenario and number -- the location of the adaptation strategy runs in the Raw Data Tab. The first scenario will be assumed to be "the base case."
 - g. Parcel names in Rows S & T
6. Check the inputs in the Model Summary and Model Inputs Tab. Erase all Model Outputs
7. The model may be run once those tabs are set up properly
8. Model results and pivot charts will be updated automatically.
 - a. Sometimes pivot chart elements must be resized such as legend fields that will need to be extended or moved from overlapping chart results.
 - b. In the "Adaptation Strategy Benefits" tab, often the latest "Run Identification" must be selected from the chart filters.
9. The "Current and Future" tab must be edited to properly display the lower left graph in the "Adaptation Strategy Benefits" tab.
 - a. The formulas in rows 15-21 must be edited to reflect 1.) the number of adaptation strategies, 2.) the names of the adaptation strategies, 3.) the number of sites, and 4.) the location of the base strategy in the pivot list.