

1 - Building a simple model & saving (Just to get used to SMS Modules).

- 1-1. Creating Nodes & arrange positions. } general comment on
4 " Lines } creation vs. selection
" polygons }

1-2. Redistribute vertices → difference between nodes & vertices.

1-3 * Change polygon model type to adcirc.

* Preview mesh. (Sometimes bias works!)

* See attributes (change mesh according to preview).

* Convert coverage to mesh.

1-4 * Check model.

Preview height/elevation/bathymetry of nodes.

Changing elevation, one by one is possible.

but what if we want to change the elevation according to a pattern?

1-5. Select a group of nodes.

• Convert mesh to scatter. with selected nodes.

(A new type of object Scatter!)

• turn off mesh.

• turn off map.

• plot scatter contour.

1-6. Data calculation.

• Open Data Calculator.

• Compute new set

1-7. Scatter menu \rightarrow Interpolate to mesh.

Choose the new data set.

Know the difference between S and Z!

Once assign data set to Z. \rightarrow note the change of
Z mesh data
another time assign data set to S.

1-8- You can get back to original elevation by converting mesh to scatter & interpolate again!

1-9- Save final stage. Note the different files

- Open scatter alone...

- Open map file...

~~~~~ done with the first phase.

599 034 522

~~628~~ 6258

- \* Open subgrid in SMS and do the following:
- 3  
step
- Change coords to geographic. Add work with meters.
  - Build a scatter out of initial model.
  - Save.
- 

- \* Put the georeffed picture in background.
- \* Put GIS shape file and select the road which matches levee. Delete the extra points.
  - Convert all nodes to vertices to check discontinuities.
  - remove discontinuities.

\* If no GIS file, just work with geo-refed photo

- \* Create a node string surrounding the : road (Levee).
  - Hold shift
  - Finish with double click. ~~click~~

- \* Convert node string to map.
  - Create a polygon.

- Delete element with boundary as outside
- " nodes " " inside" → Crazy!

\* Now merge the new coverage from mesh & Levee-Path.  
 Import-t. → \* Redistribute vertices! \*

- \* Offset levee-path from drop down menu.

- turn on the image to make sure the levee path is correct!
- delete the one which you do not like.

- Convert the two prefinal vertices to nodes.

- reshape end points



- delete the previous polygon.

\* Create new polygon surrounding the levee.

- Check its attributes.

- Paving =

- Scatter set from mesh.

- Ocean.

\* Convert to mesh.

- Merge to the base mesh

- Add nodestrings to the merged one. don't delete mesh-0.

- delete unused node strings.

\* Assign BC. as Island Barriers.

- Assign values as desired and double click to assign.

(There is a Update in this section).

- You can also interpolate!

- Greened!

\* Now let us look at grd file and where is BC!  
important! always check!

\* Copy subgrid to gridscope folder & merge to the original mesh.

\* copy merged file to meshes folder & check levee heights.

\* Print fort-13 file!

\* You are nearly there! Do not forget the last step:

