

Week 1      Week 2      Week 3      Week 4      Week 5      Week 6      Week 7      Week 8

writing  
presentation

I. Simplified MITgcm  
storm surge Experiment  
(Heaviside storm hits  
tanh coastline)

Iteratively  
improve  
bespoke  
kernel  
design

II. Use LLC4320 and/or  
ORCA12 hindcasts of the  
East US, extracting the  
structure suggested by I.

How well does the  
previously used kernel  
capture the functional  
relationships?

III. Comparing the  
outputs of the models in  
II. to the observational  
NOAA tide station data

Is the  
kernel  
still  
valid?

Gaussian Process kernel design & data processing  
theory, including using the SDE approximation to allow  
more data throughput.