

Detailed schedule

Date	Sea Level Topic	Lab/HW Activity
January 17	Impacts and Threat/Logistics [1]	Github, jupyter notebook, libraries
January 24	Sea Level Rise [2]	Intro to numpy arrays [1]
January 31	Sea Level Variability [3]	Numpy arrays/Representations of time [2]
February 7	Water level data [4]	JSON, API data download [3]
February 14	Storm surges [5]	Interpolation, Error Checking, Visualization of multiple timeseries [4]
February 21	Tides: General Introduction [6]	Correlations, Regressions, Trends [5]
February 28	Return periods, Risk Estimation, Climate Change [7]	Histograms, Frequency Distributions, Extreme Events [6]
March 7	Tides in Coastal Basins [8]	Fourier, Frequency Analysis [7]
March 14	Shoreline Decision-Making [9]	Averaging, Filtering [8]
March 21	No class meeting	No class meeting
April 4	Climate Change Adaption [10]	Harmonic Analysis [9]
April 11	Summary/Integration	Work on Term Projects
April 18	N/A	Term Project Presentations
April 25	N/A	Term Project Presentations