Class 9 - Coastal flow: Storm surge, tsunami, and in-stream tidal power generation.
Reading: Delft 3D FLOW manual, Chapter 9.3.1.
a. Flow power equation and devices for extracting in-stream power. Site feasibility. Simulation and monitoring.
b. Storm surge - wind and pressure.
c. Tsunami - long waves.
d. Navier-Stokes equation.
e. Homework - use Navier-Stokes equation to predict storm surge height at Haneda Airport for given wind speed. Wind and bed drag coefficients are given.

