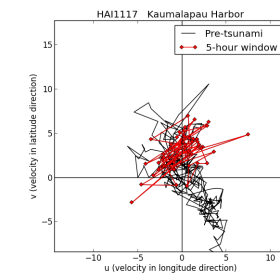
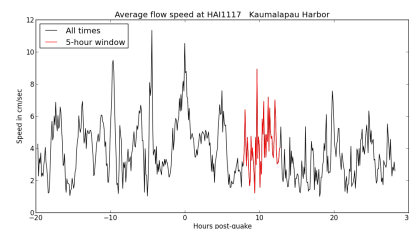
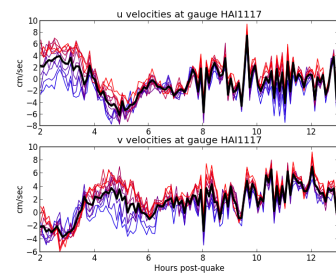
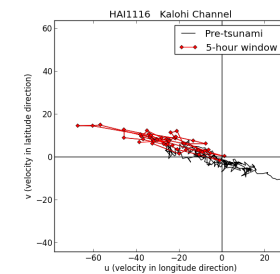
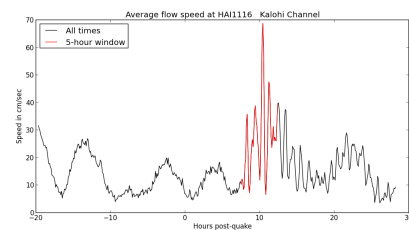
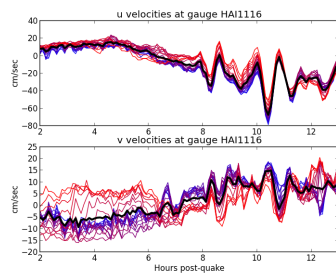
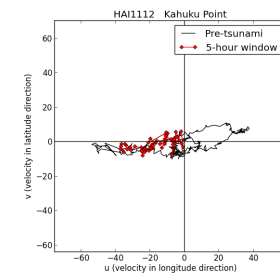
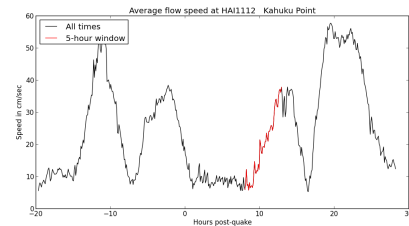
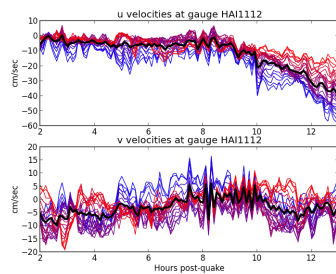
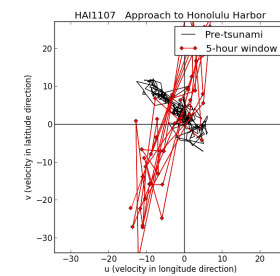
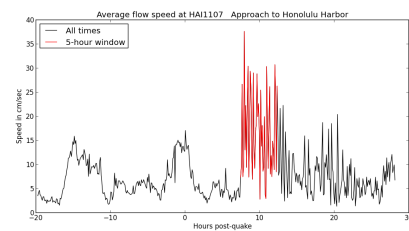
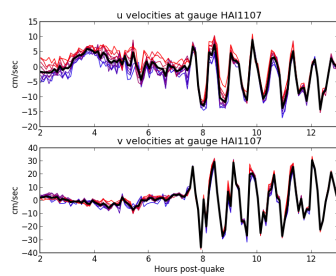
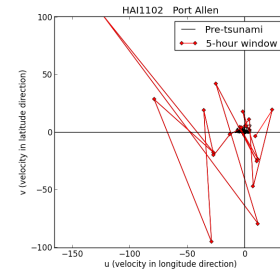
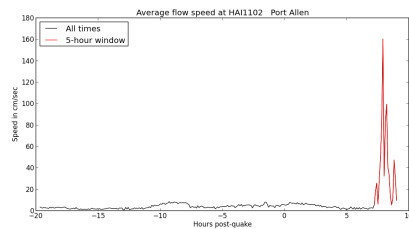
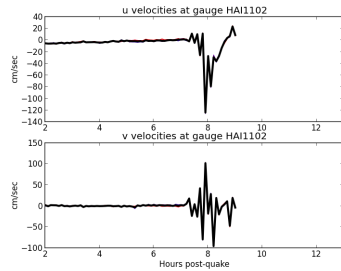
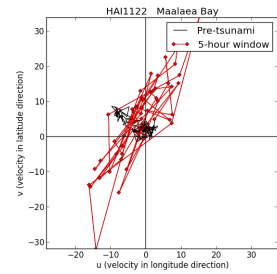
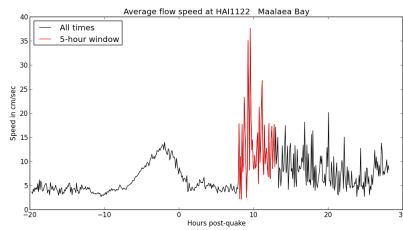
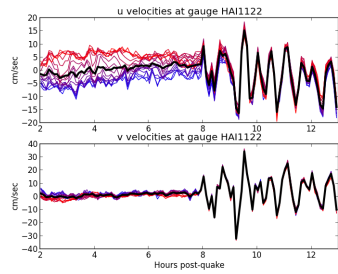
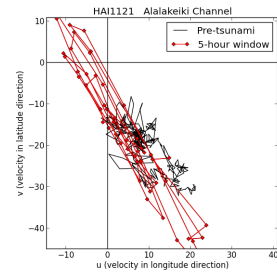
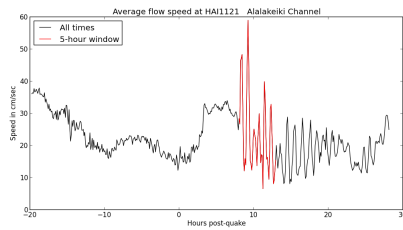
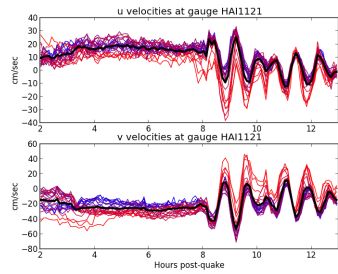
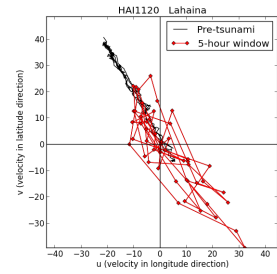
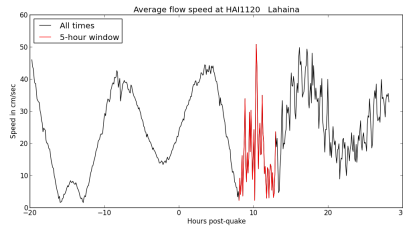
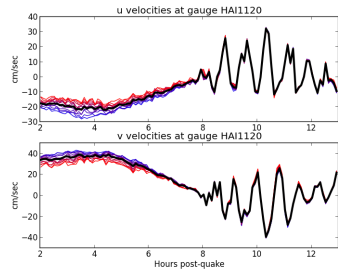
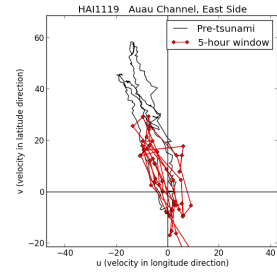
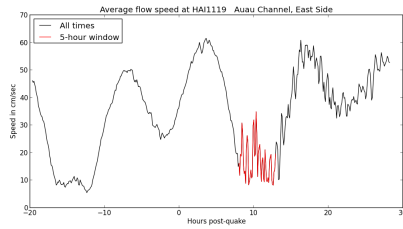
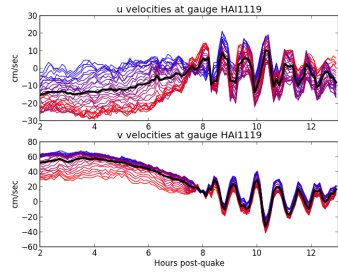
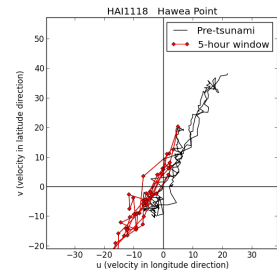
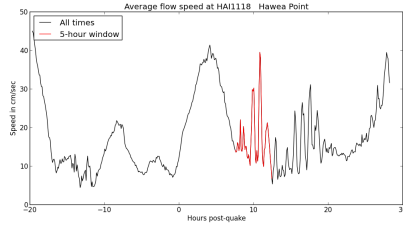
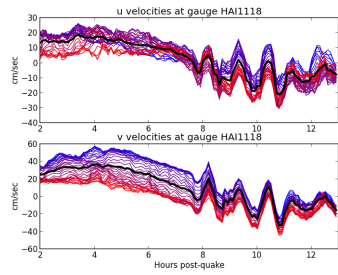
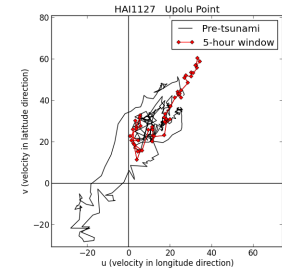
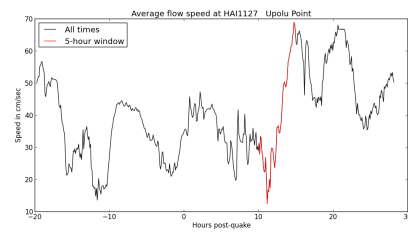
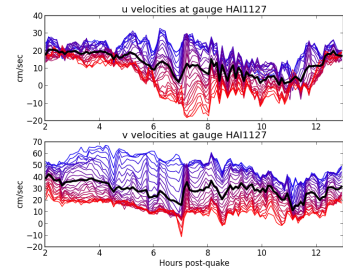
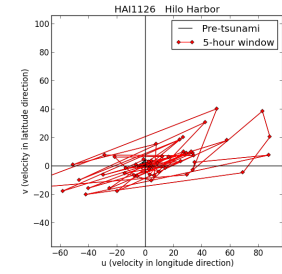
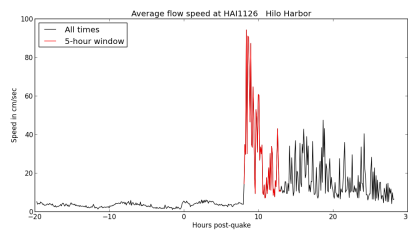
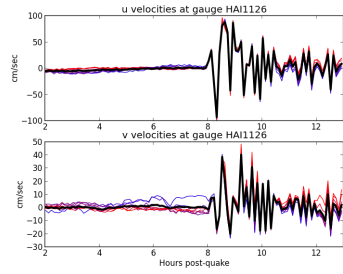
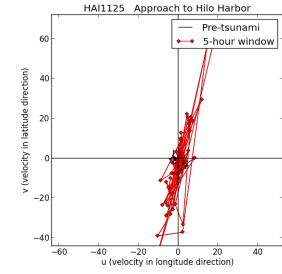
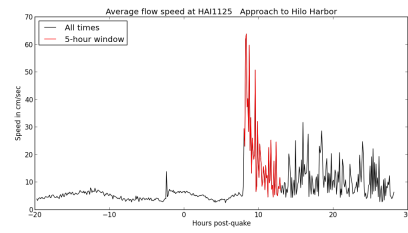
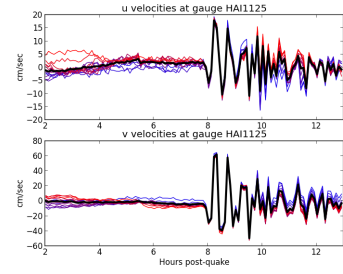
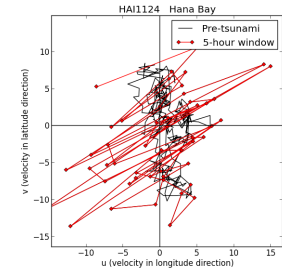
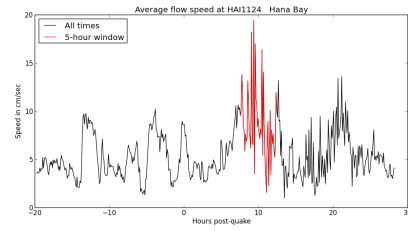
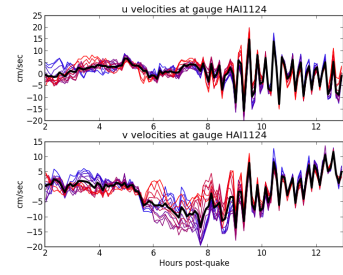
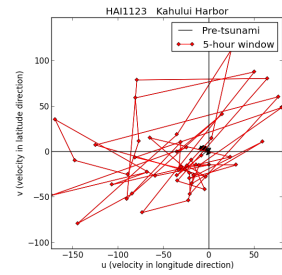
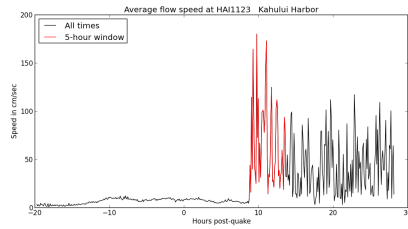
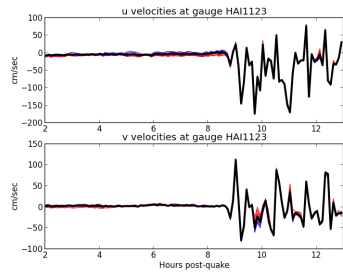


Supplemental Figure for the paper ‘ ‘Validating Velocities in the GeoClaw Tsunami Model using Observations Near Hawaii from the 2011 Tohoku Tsunami’ ’

by M. E. M. Arcos, Randall J. LeVeque







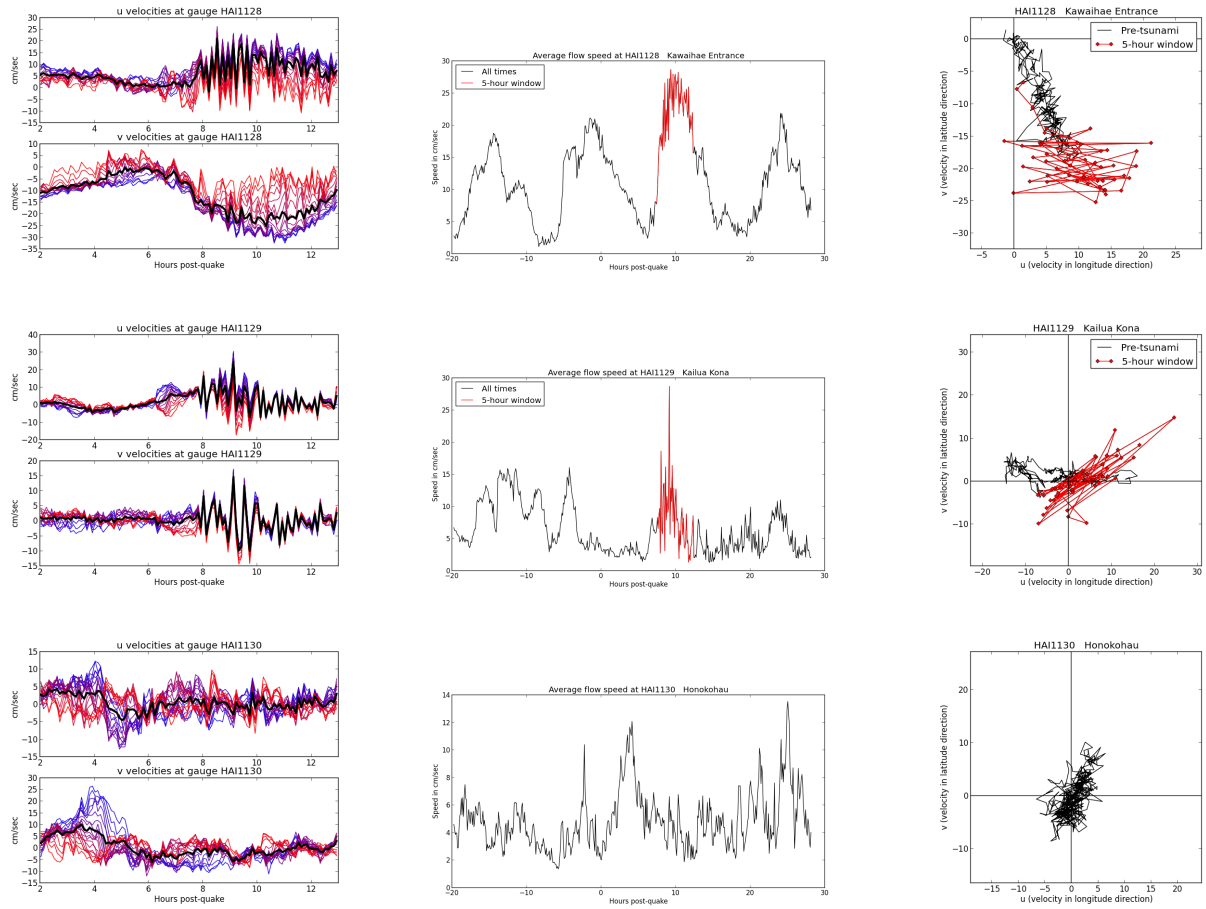


FIG S1. Plots of the observed velocity data from each station, from raw data obtained from <http://tidesandcurrents.noaa.gov/cdata/StationList?type=Current%20Data&filter=survey>. Presented in format similar to Figures 5 and 6 in the paper. Left column: Velocities are shown at all depths, split into u and v velocity components. Blue is the shallower gauges, Red is the deeper gauges. The thicker black line is the depth averaged velocity based on these observations. Shown over a 12 hour window around the tsunami arrival time at roughly 8 hours post-quake. Middle column: Observations over five hours just after the tsunami arrived are plotted in red, all other times in black. Observed speed $\sqrt{u^2 + v^2}$ over a 48-hour window, illustrating the non-smoothness of the signal before the tsunami arrived. Right column: In the u - v plane, showing that direction of currents.