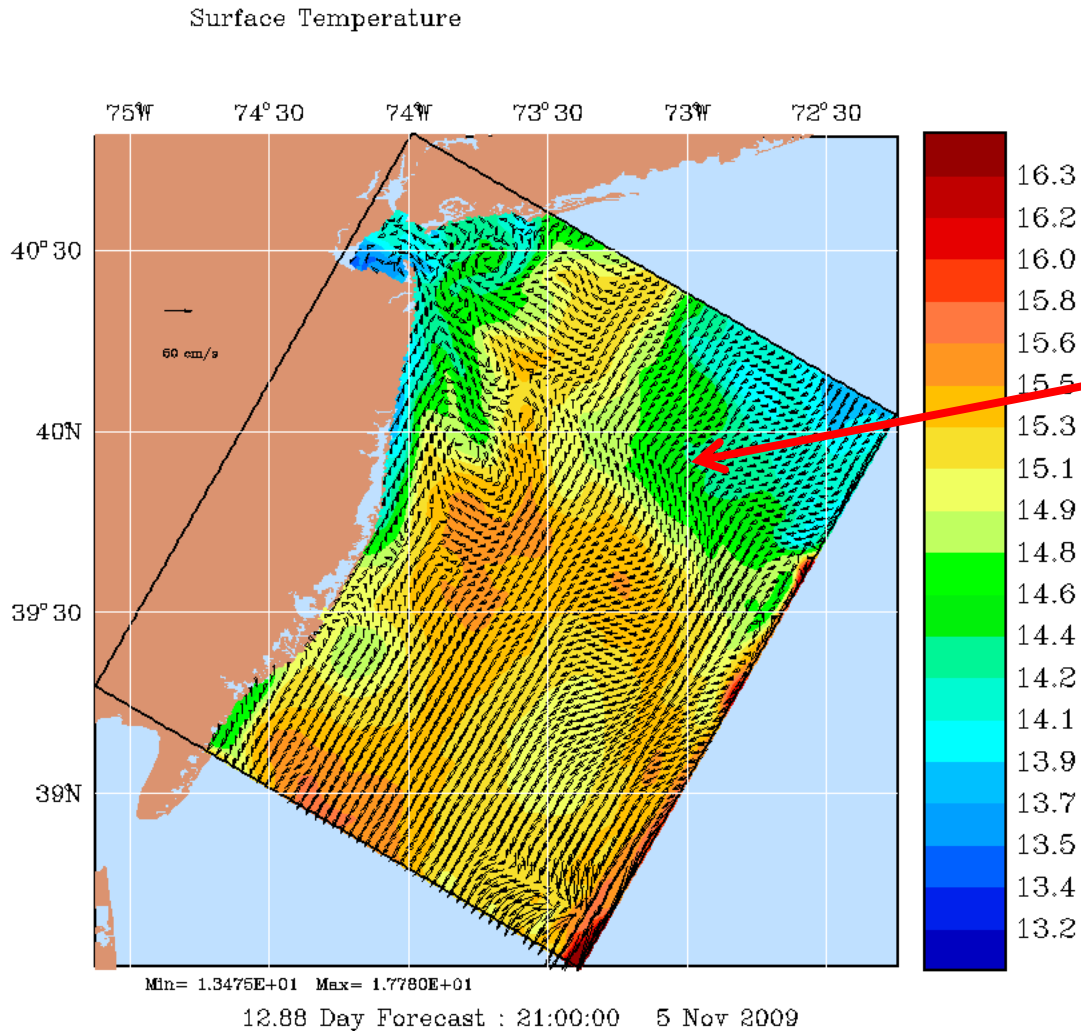


OOI-OSSE09: Hudson Valley Adaptive Sampling Plan

Pierre Lermusiaux et al, 2009

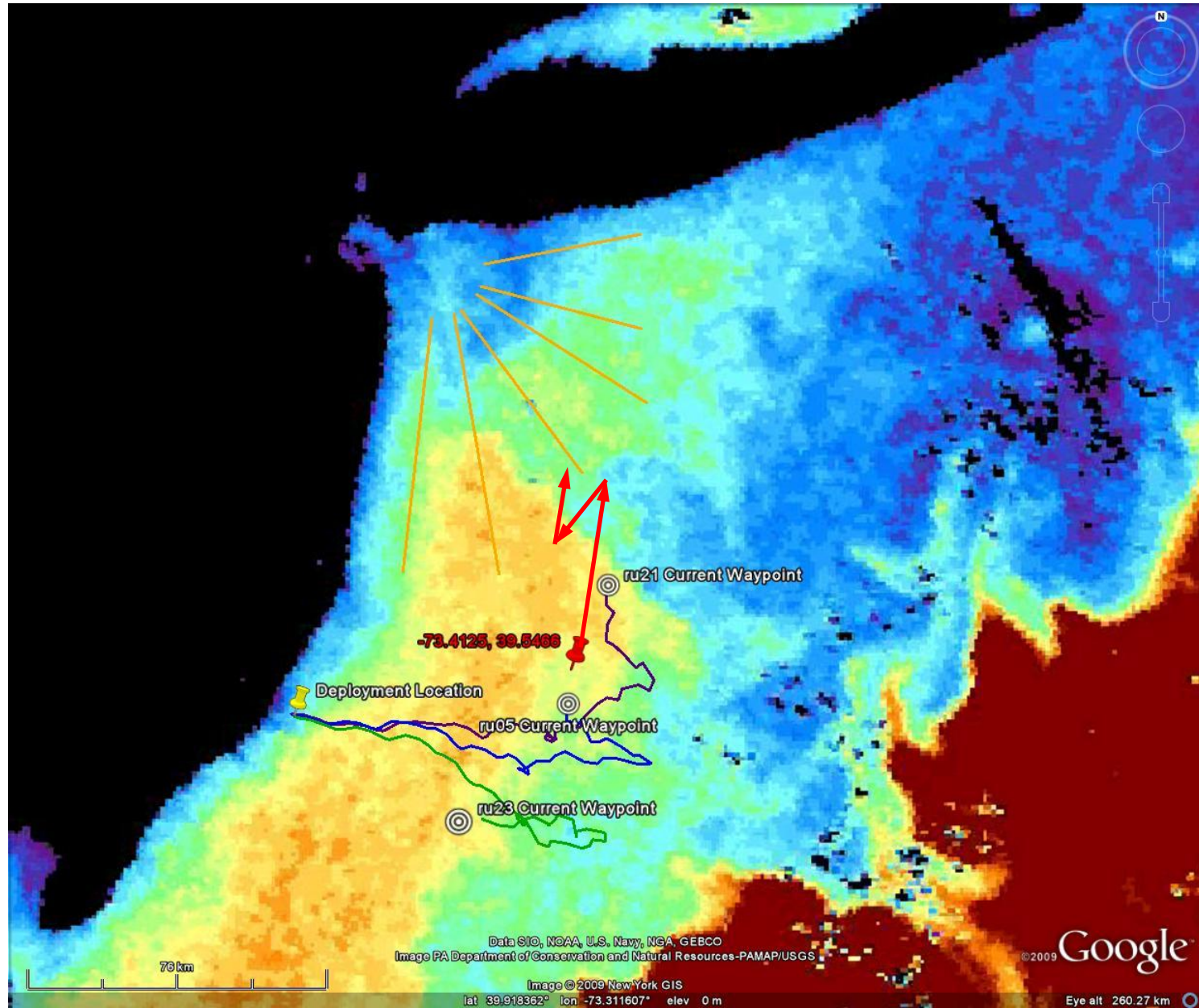


See forecast velocity shear and Temp. gradient, with surface mixing signature, all along Hudson Valley

OOI-OSSE09: Hudson Valley Adaptive Sampling Plan

Pierre Lermusiaux et al, 2009

SST map Nov 05, overlaid with glider paths (up to Nov06) and ship lanes (Ojanen and Schofield, pers. com.)

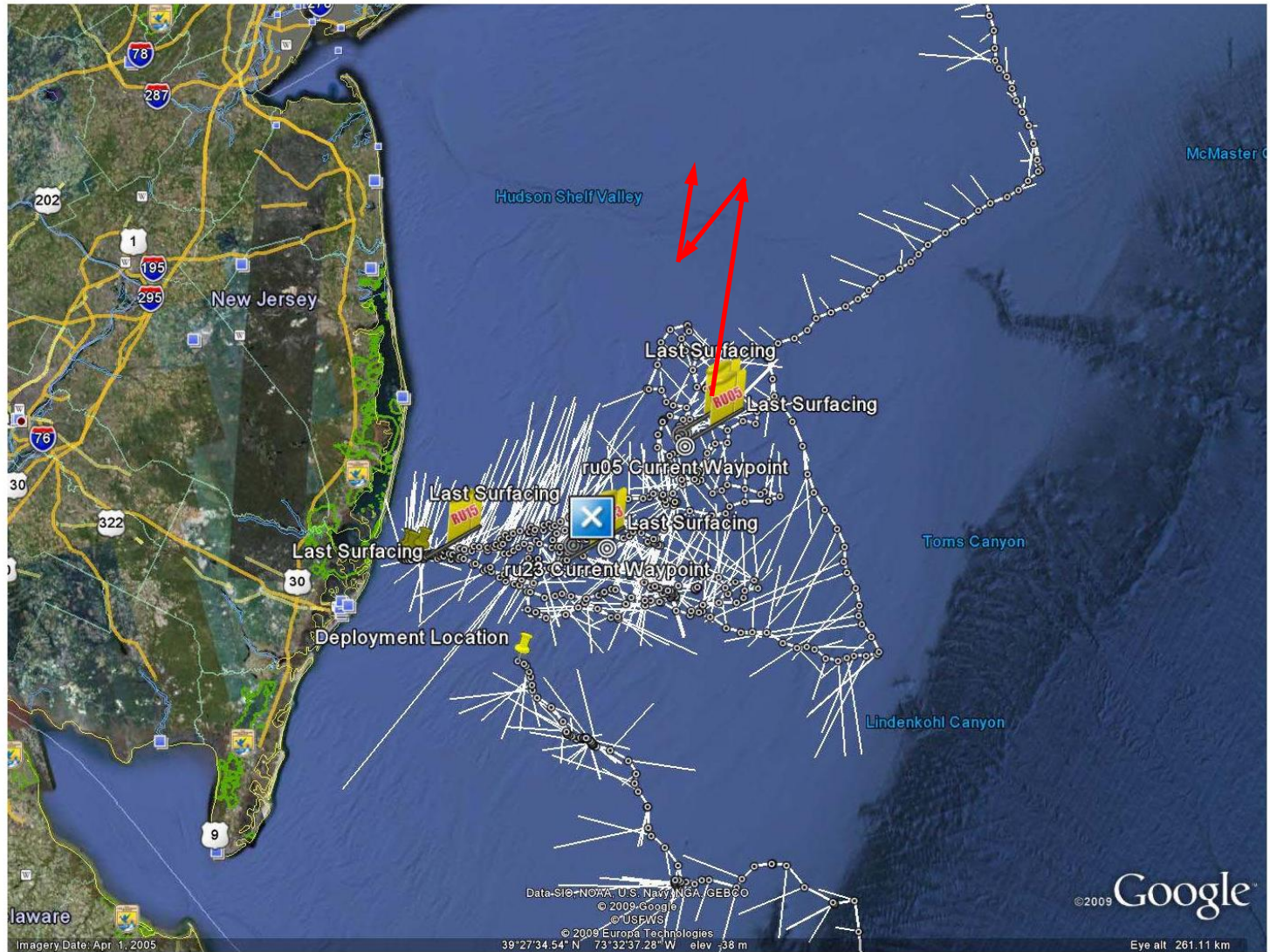


Approximate
Lat, lon

~ 73 15' , 40 09'

~ 73 22' , 39 55'

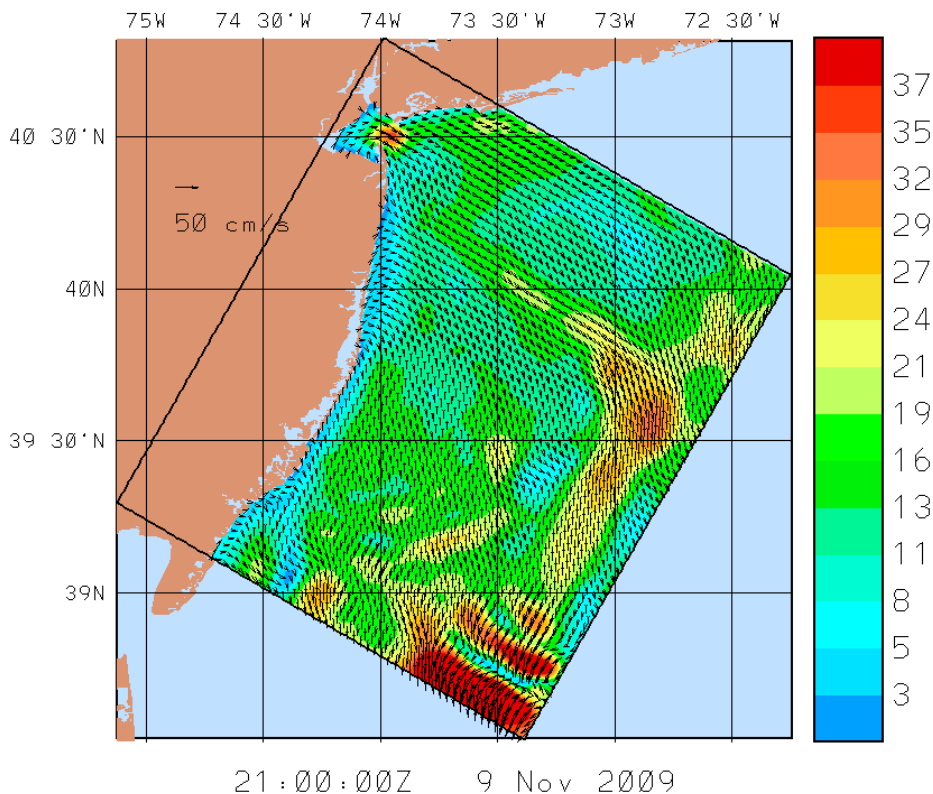
~ 73 18' , 40 11'



MIT-MSEAS Forecast, with Rutger's data assimilation

You can see some tidal resonance. The forecast plots shows the strong/weak flow conditions, with some internal tides. Six hours later, the “resonance” leads to no tidal flow right above the valley, but strong flow on either side.

Upper 200m velocity



Upper 200m velocity

