

Cook Inlet Wave-Current Forecasting System

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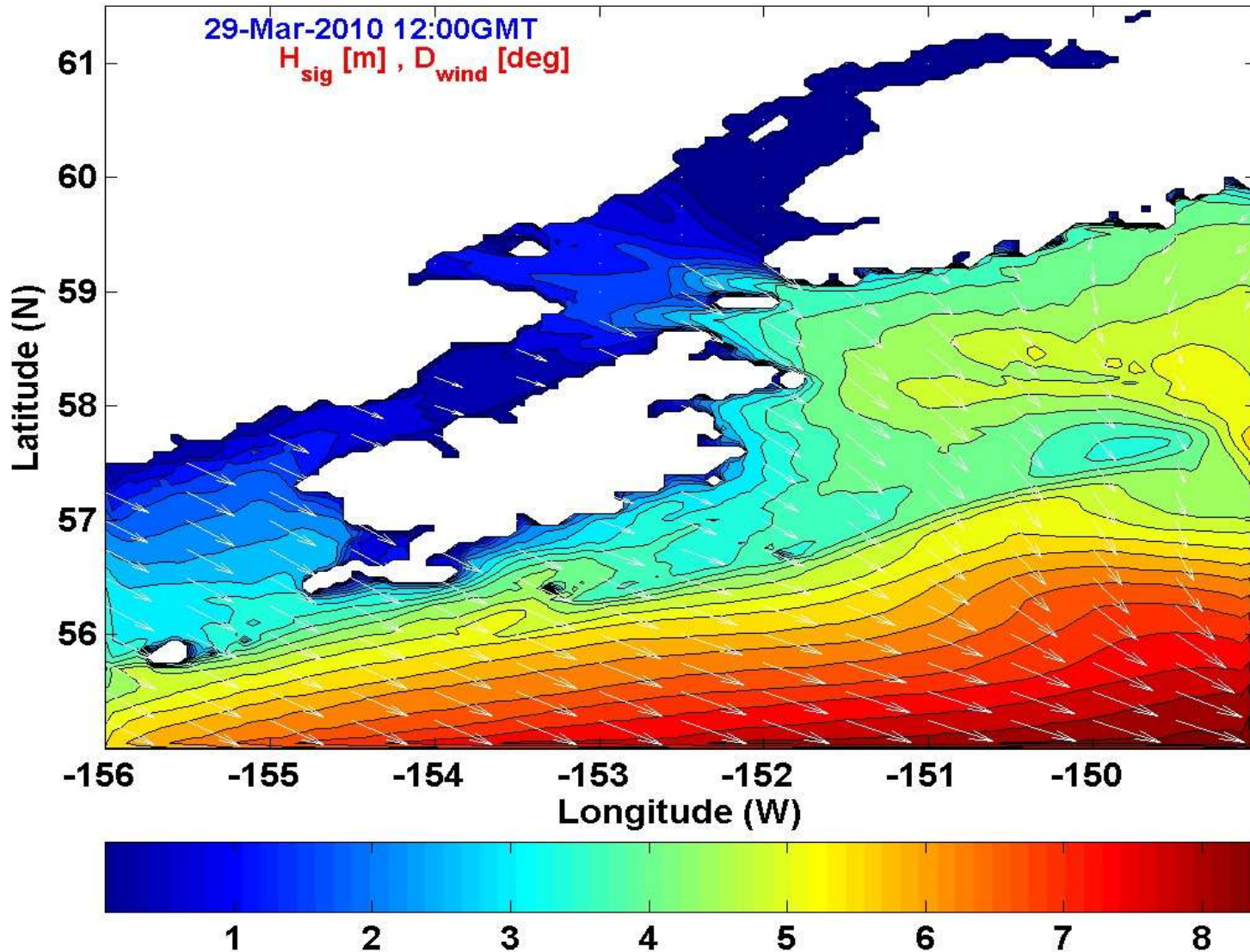
- NWS CSTAR proposal selected for funding
 - Start date – May 1st 2010.
- Participants
 - Dr. Vijay Panchang (PI, TAMUG)
 - Dr. Jun Jin (co-PI, TAMUG)
 - Dr. Juan Horrillo (co-PI, TAMUG)
 - Dr. Andrey Proshutinsky (Sub-contractor, WHOI)
 - Mr. Gaurav Singhal (PhD Student, TAMUG)

Scope of Work

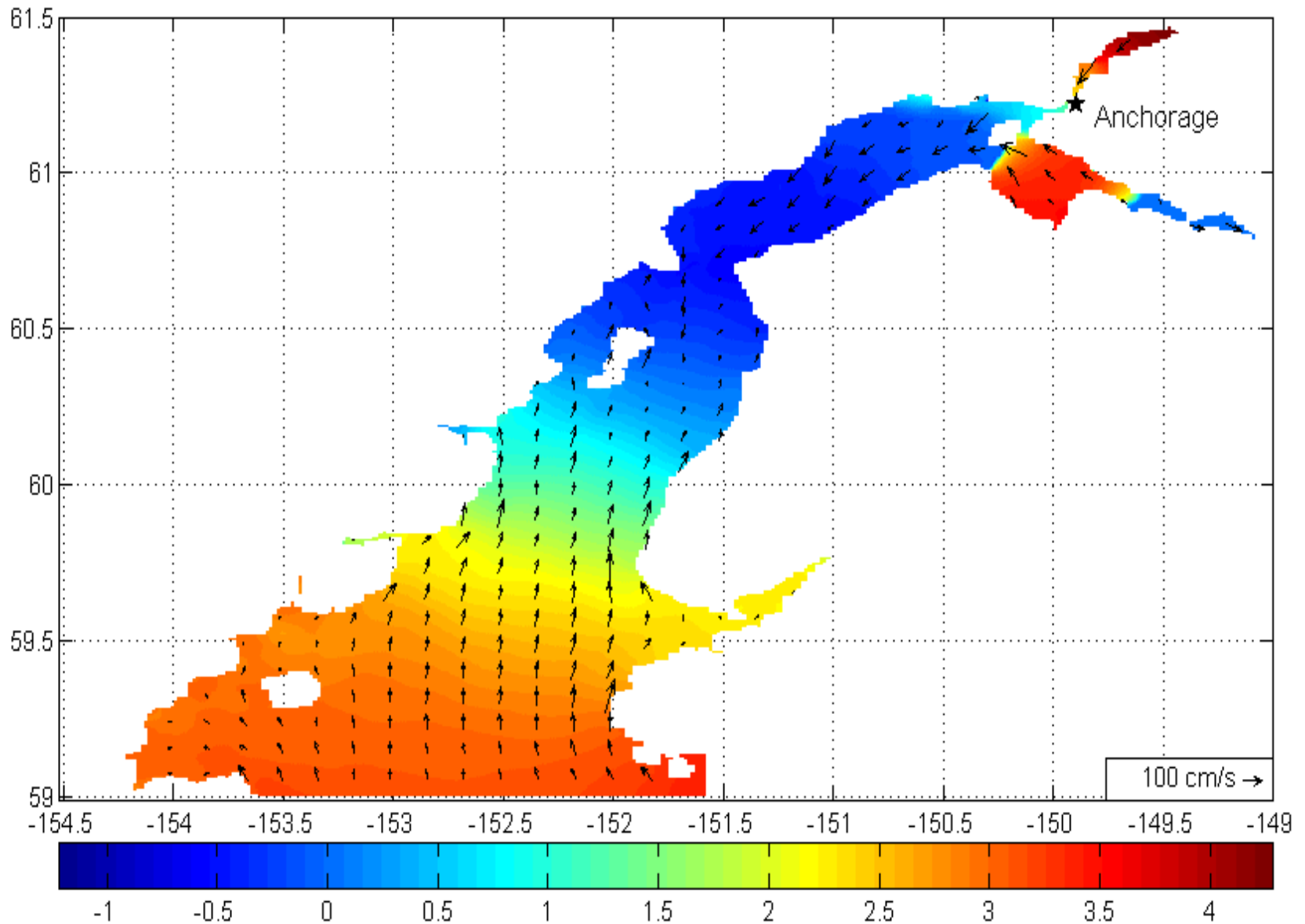
- Waves: SWAN (DELFT), WAVEWATCH III (NCEP)
- Currents/Water levels: EFDC (EPA), ADCIRC (USACE), Dr. Andrey Proshutinsky's model
- Wave-current interaction (coupling of wave model and circulation model)
- Wetting and drying of shallow areas (e.g. Knik & Turnagain Arms)

Cook Inlet Wave Forecasts (SWAN)

2010/03/28 - t = 12Z - 24 Hour Forecast

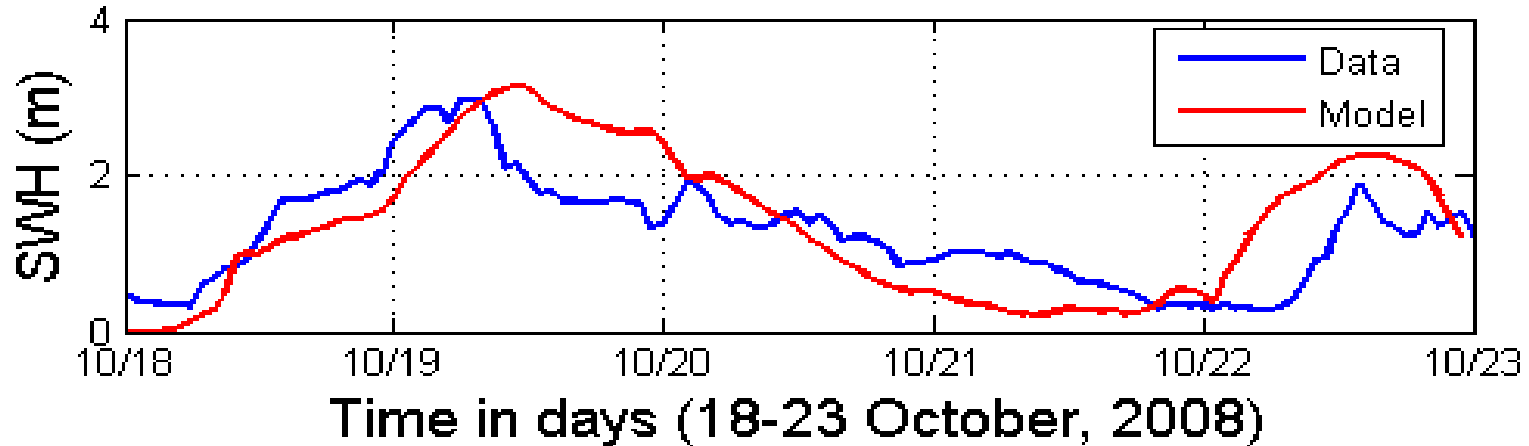


Cook Inlet Currents (EFDC)



Preliminary results

Wave height comparisons at Buoy 46077 (SWAN)



Water surface elevation at Anchorage (EFDC)

