Bringing regional ocean model output into Alaska's ecosystem-based management

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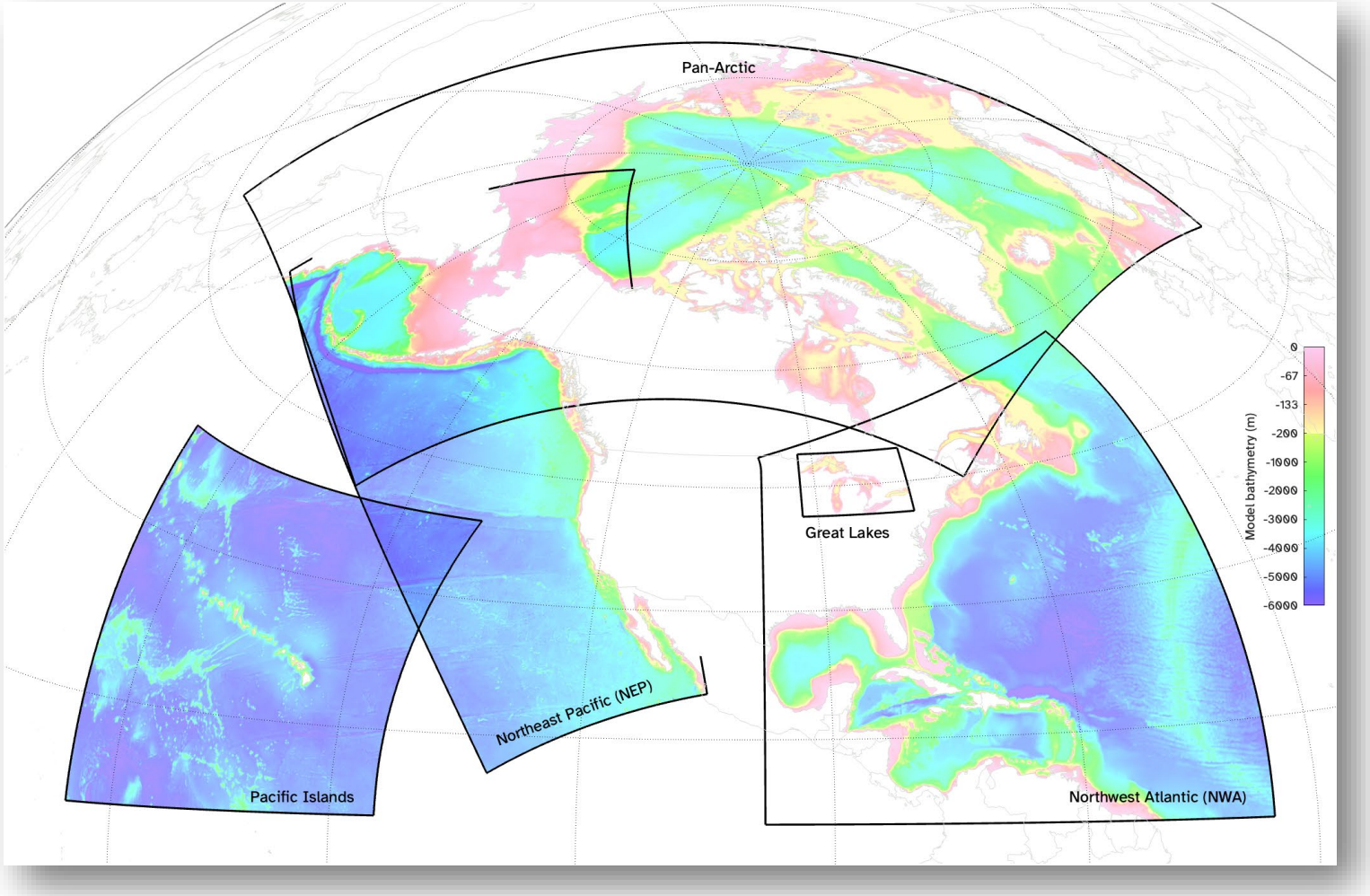
[3]NOAA Pacific Marine Environmental Laboratory

[4]NOAA Geophysical Fluid Dynamics Laboratory

NOAA's Changing Fisheries and Ecosystems Initiative

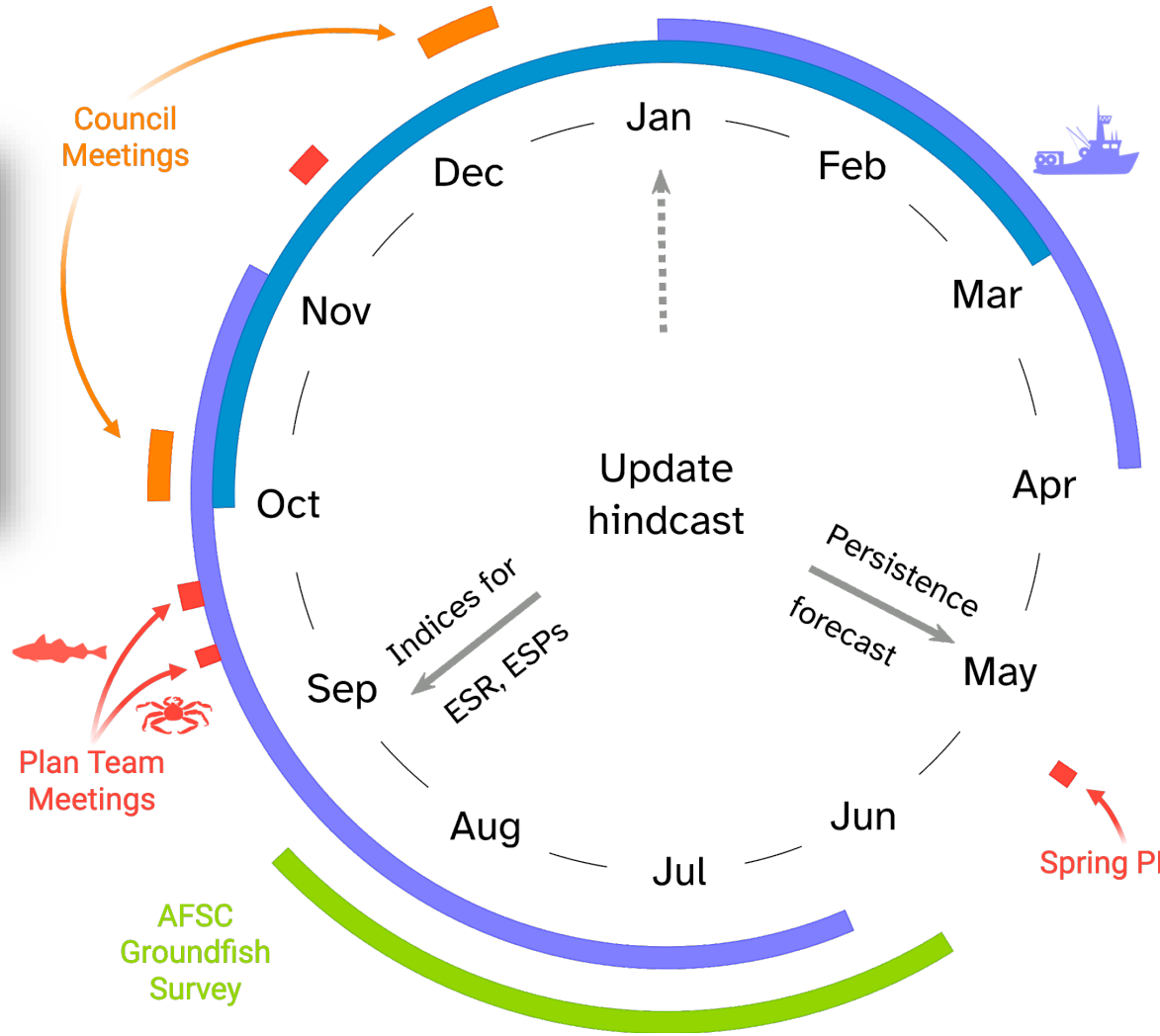
The CEFI suite:

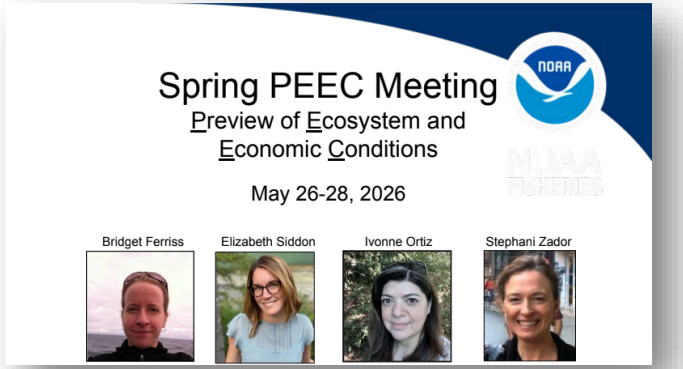
- 5 model domains
- Multiple time scales
  - Hindcasts
  - Seasonal and decadal forecasts
  - Long-term projections
- Ocean, ice, and biogeochemical modules



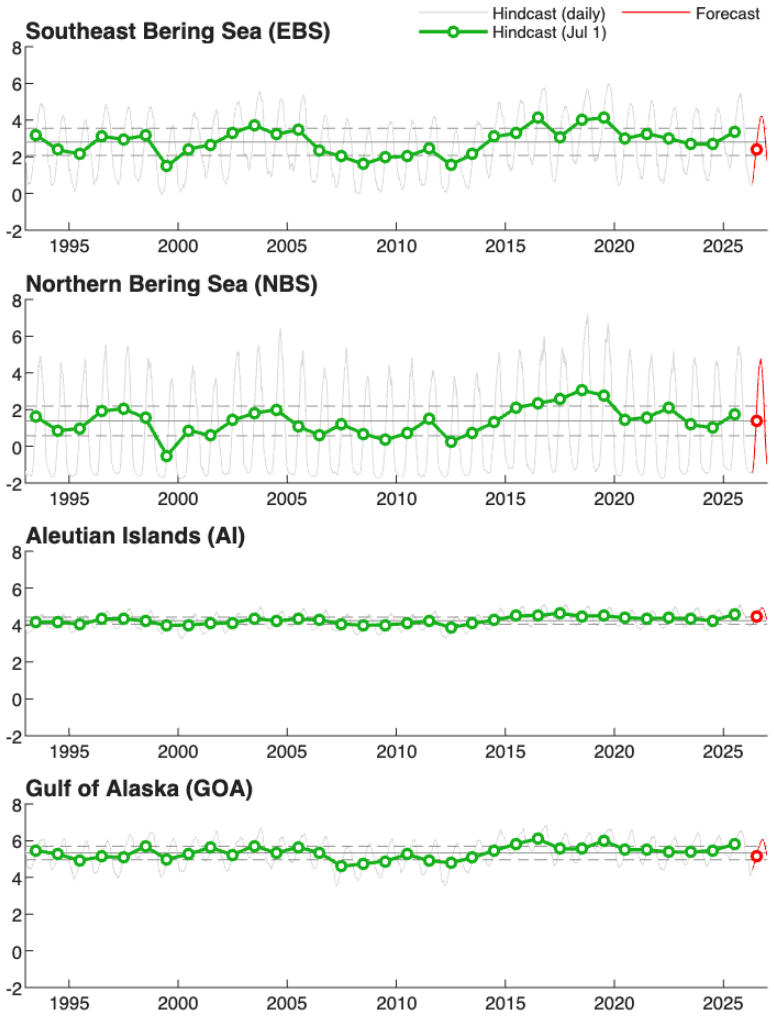
Incorporating MOM6 into Alaska management

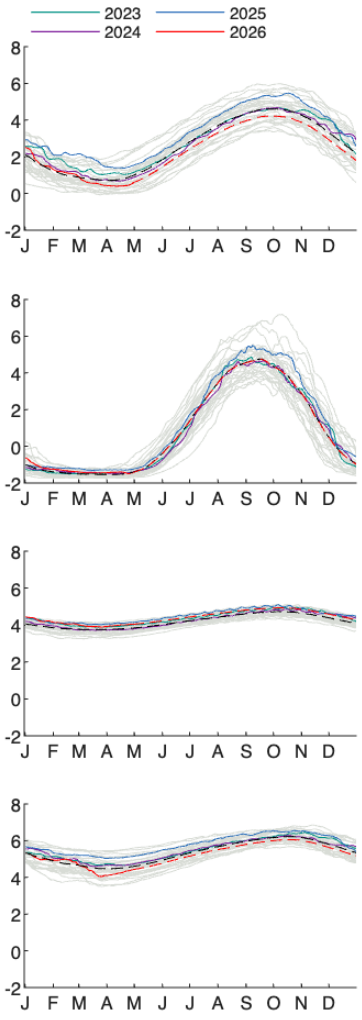


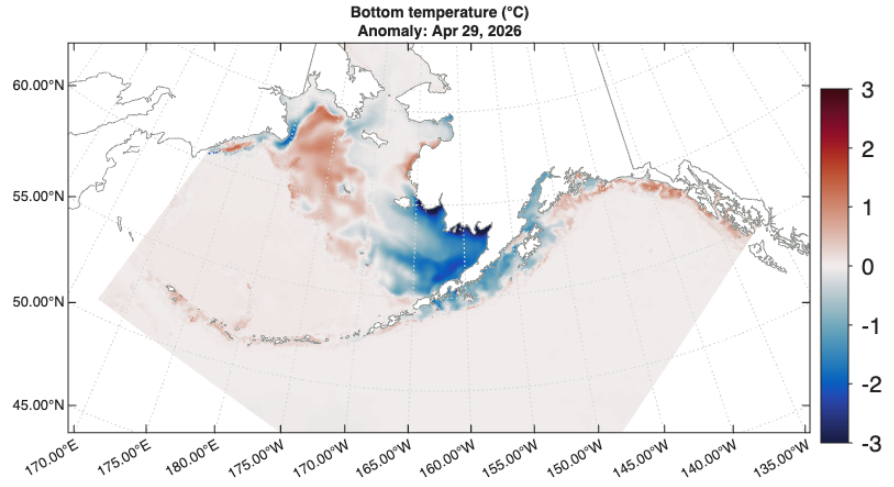


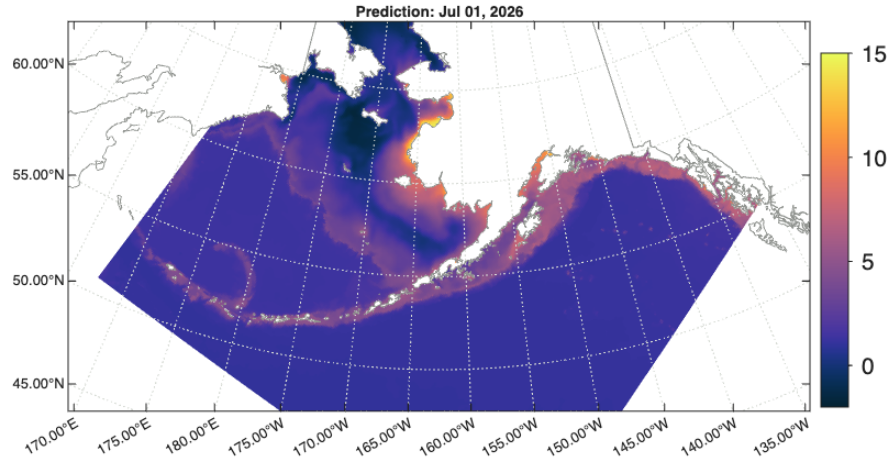


Incorporating MOM6 into Alaska management



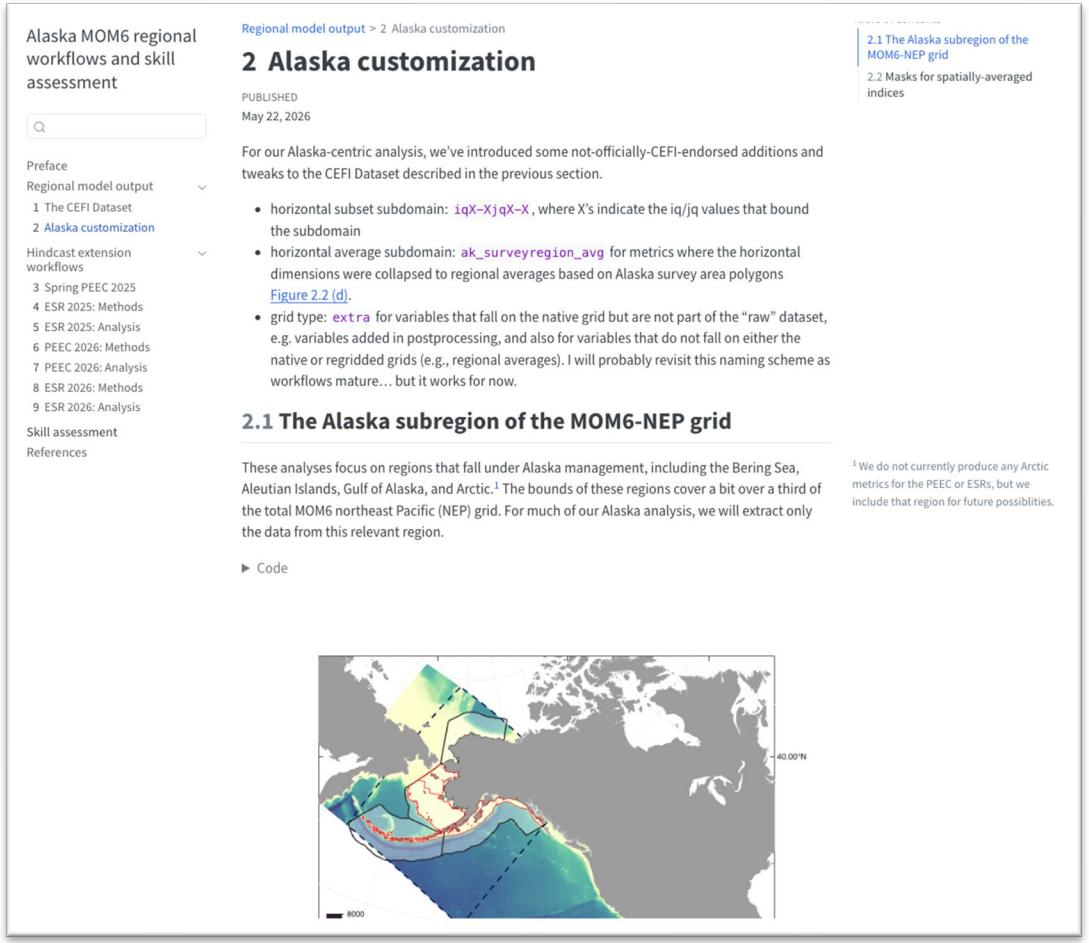




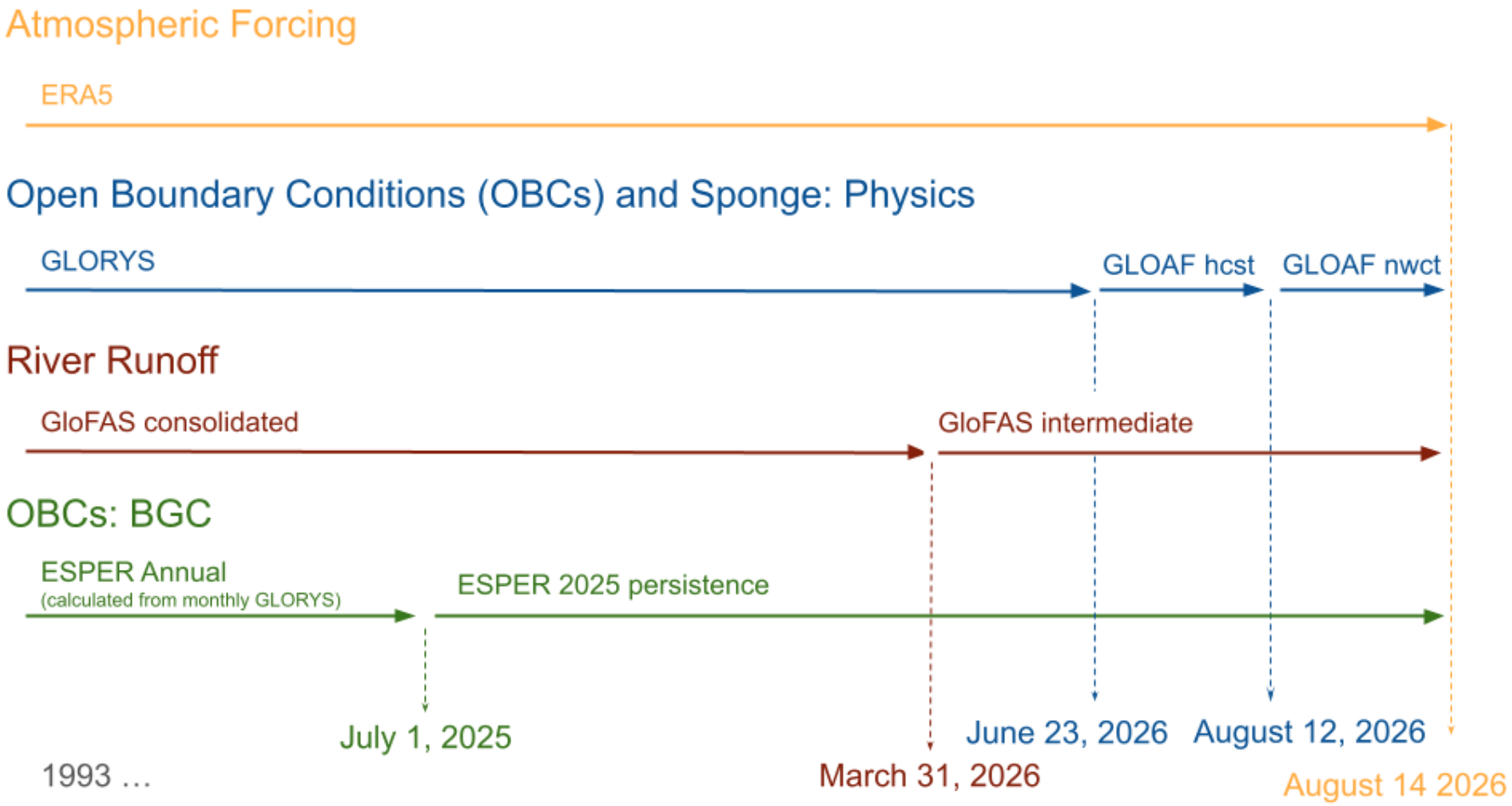


Incorporating MOM6 into Alaska management

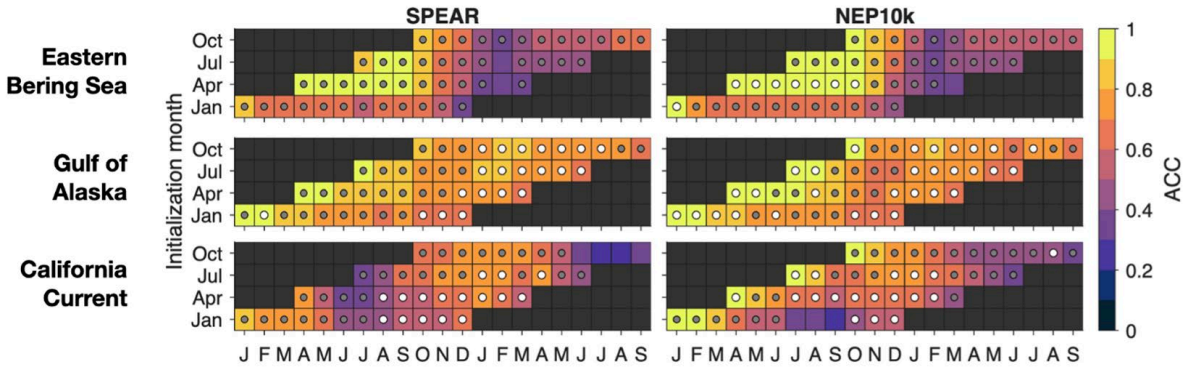
https://beringnpz.github.io/ak_regional_mom6/

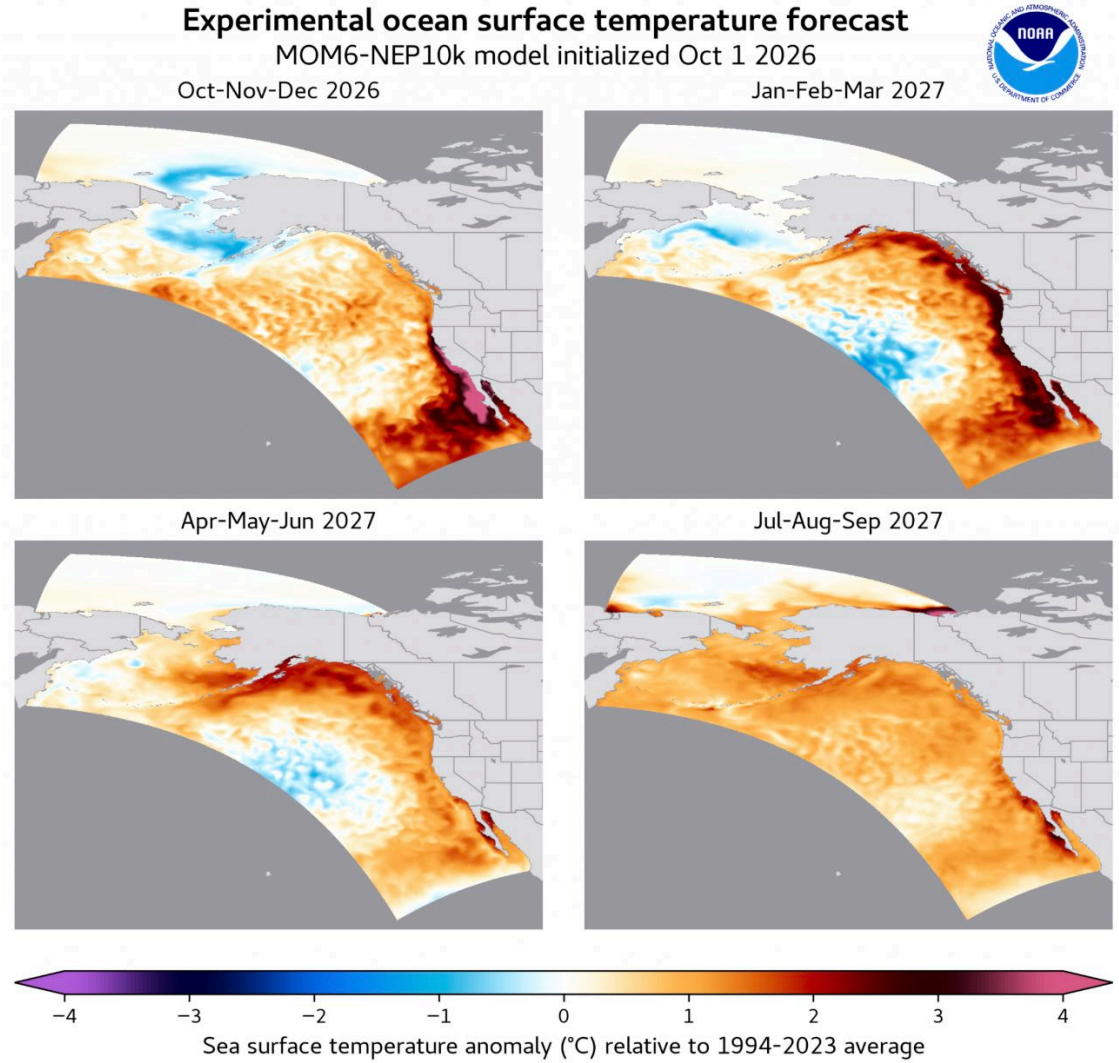


Complexity #1: Near-real-time needs



Complexity #2: Communicating uncertainty





Complexity #3: Version proliferation

	hindcast	seasonal forecast	seasonal reforecast	decadal forecast
Northwest Atlantic	r20230520 r20250715	r20250212 r20250413 r20250710	r20240213 r20250212 r20250413	r20250502 r20250925
Northeast Pacific	r20241015 r20250818 r20250912 r20260701	r20260716	r20250922	
Arctic	r2026xxxx			
Pacific Islands	r20260427			

Complexity #4: Seamless data access

earthmover

