



# AN INTRODUCTION TO THE SALISH SEA MODEL

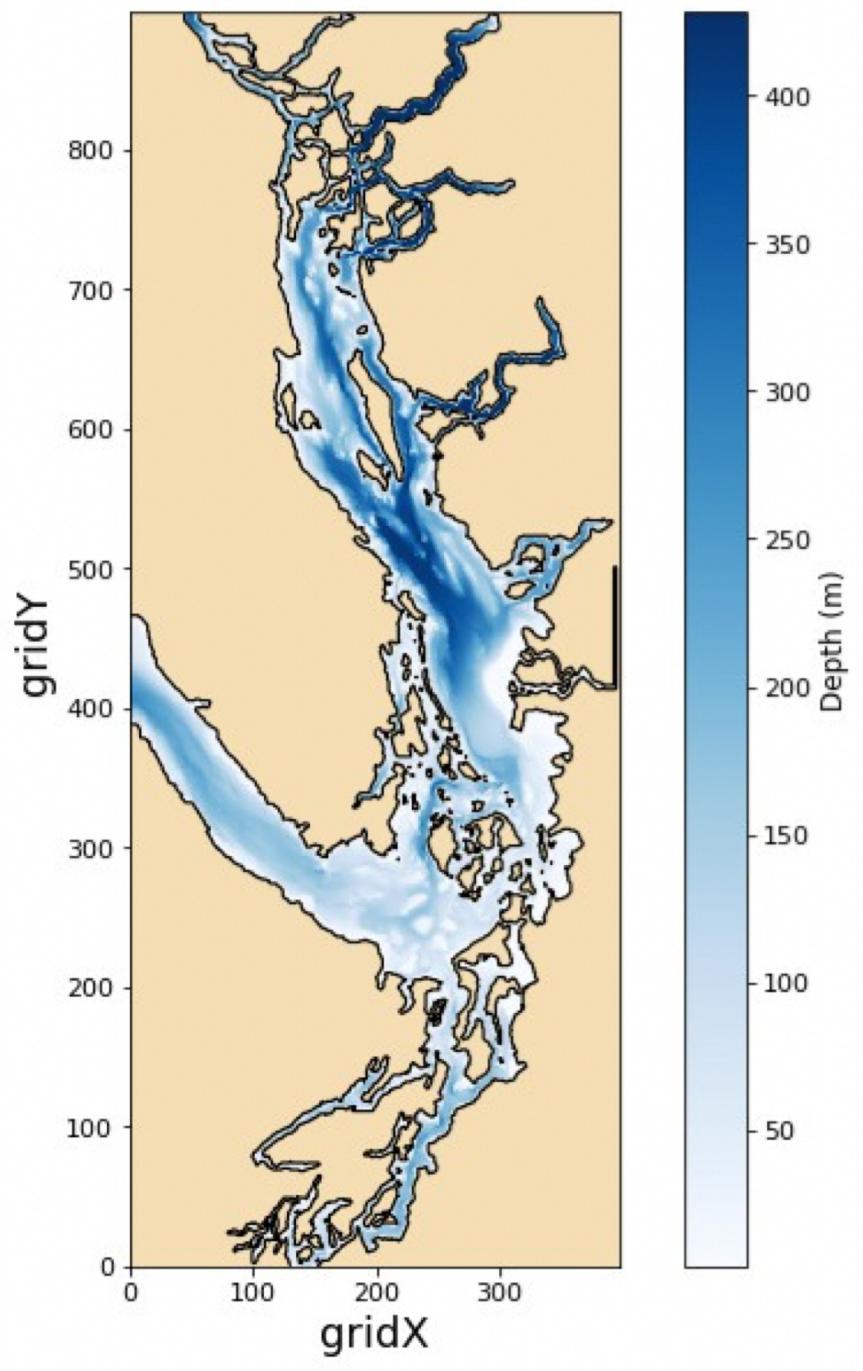
SCIENTIFIC SOFTWARE SEMINAR

OCTOBER 4<sup>TH</sup>, 2018

VICKY DO

# OUTLINE

- SalishSea configuration & SalishSeaCast
- Demo: submitting a model run to salish
- Demo: looking at SalishSea model output



# SALISH SEA DOMAIN AND BATHYMETRY

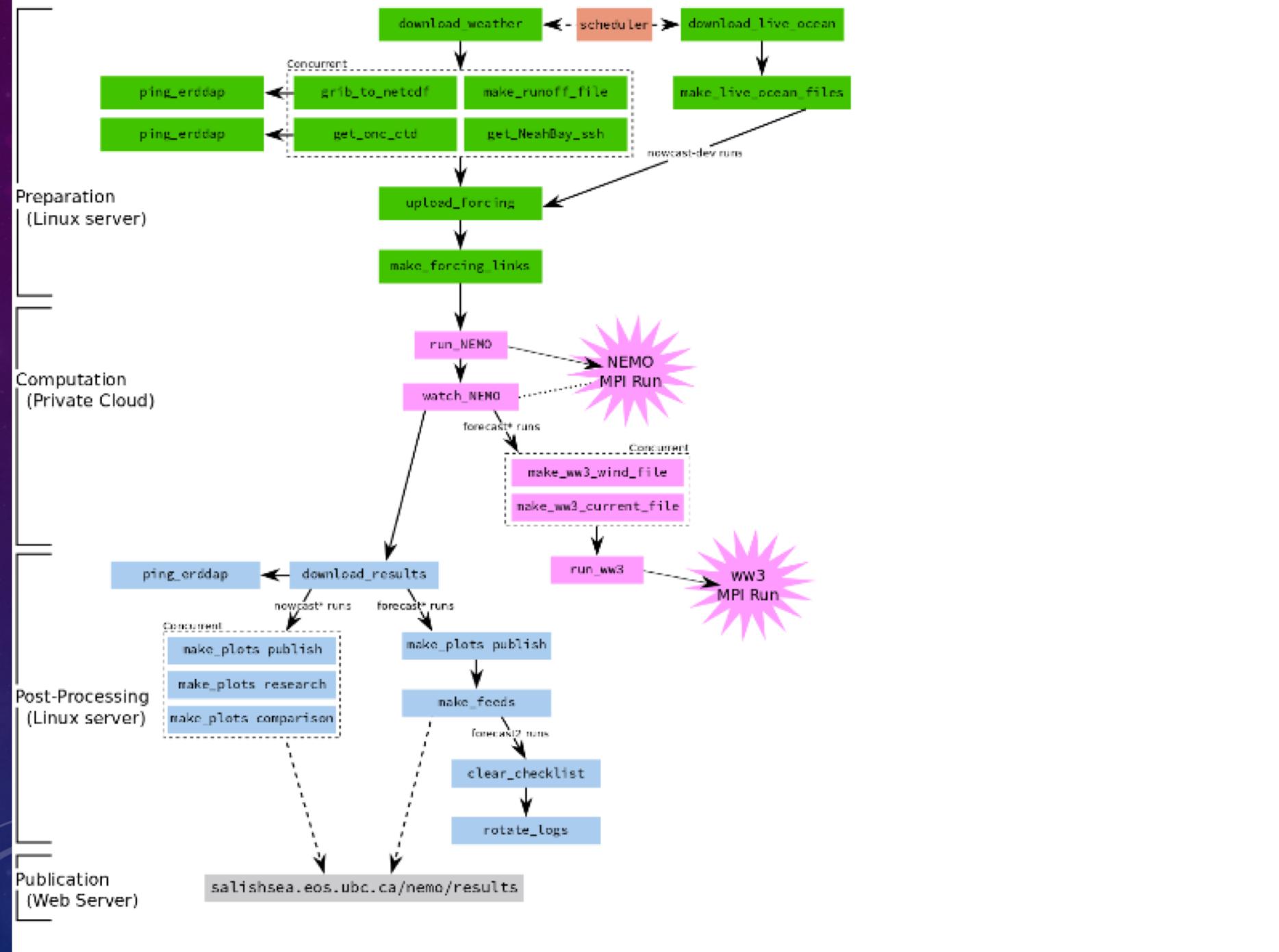
# GRITTY DETAILS

- NEMO 3.6
- 40 x 898 x 398 grid cells
- ~500 m horizontal grid spacing
- 1 – 27 m vertical grid spacing
- 40 s horizontal time step
- 2 s vertical time step
- Hourly output since fall 2014

# FORCING

- >150 rivers, daily Fraser river data from ECCC
- 8 tidal constituents
- Hourly 2.5 km resolution wind data from ECCC
- Climatology for northern boundary
- LiveOcean + observations for western boundary

# SALISHSEACAST



# WEBSITE

- <https://salishsea.eos.ubc.ca/storm-surge/forecast>

# ERDDAP SERVER

- <https://salishsea.eos.ubc.ca/erddap/index.html>

# DEMO

- Submitting a model run