

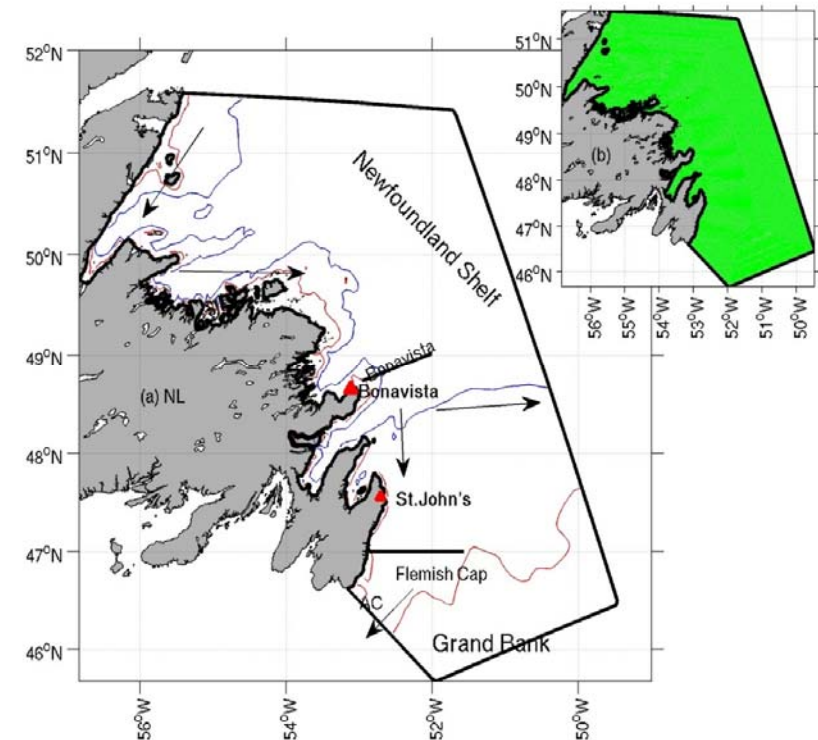
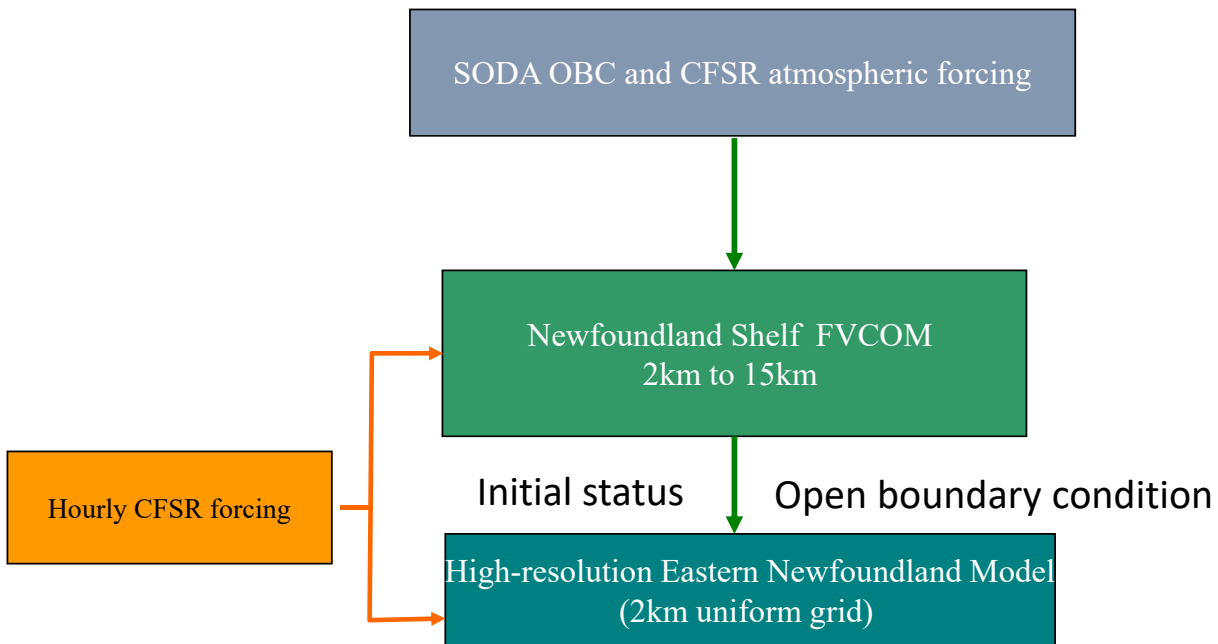
# Reconstruction of the Inshore Labrador Current from SWOT: from OI to DENKF

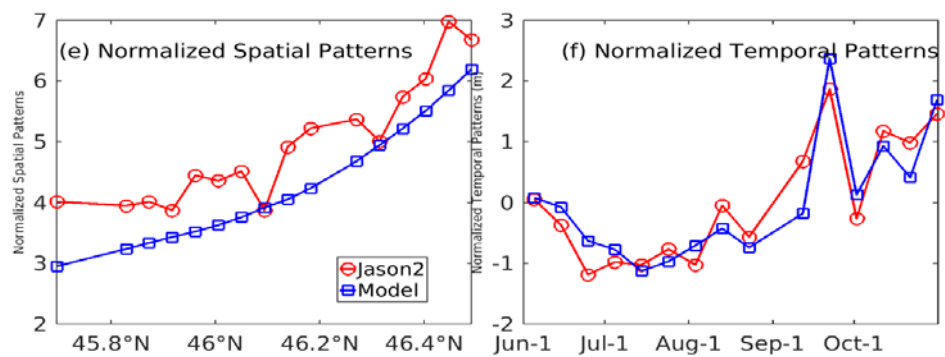
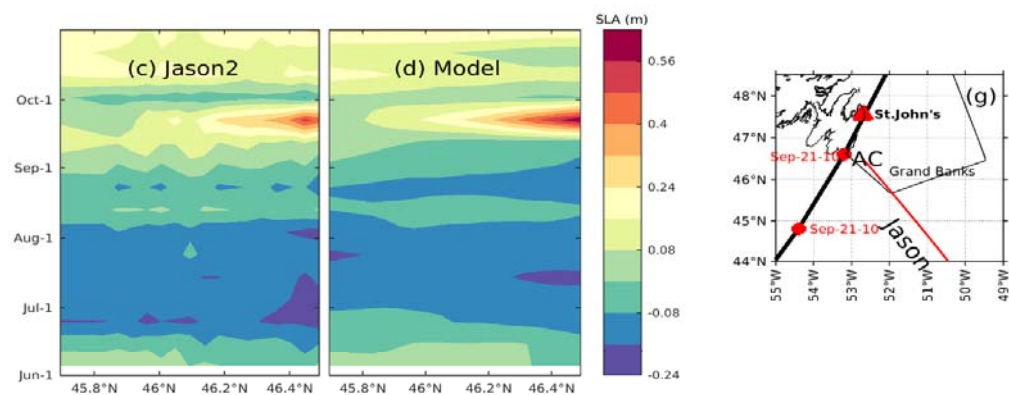
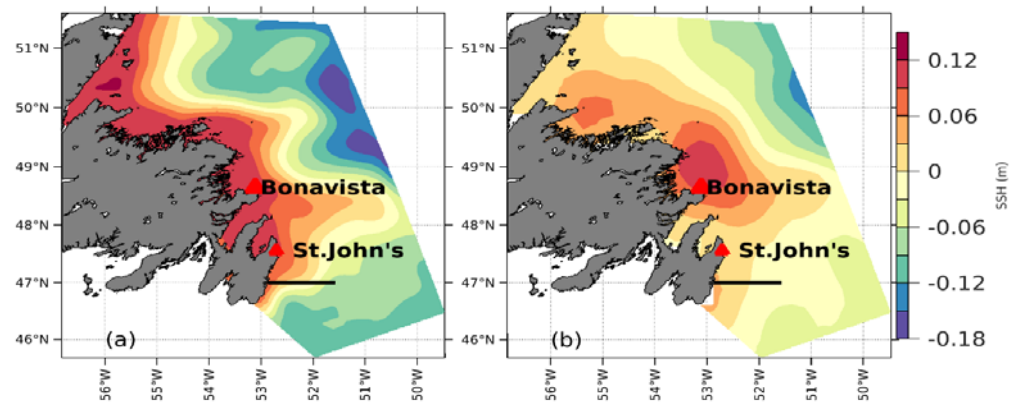
Guoqi Han, Zhimin Ma

Fisheries and Oceans Canada, St. John's, Canada

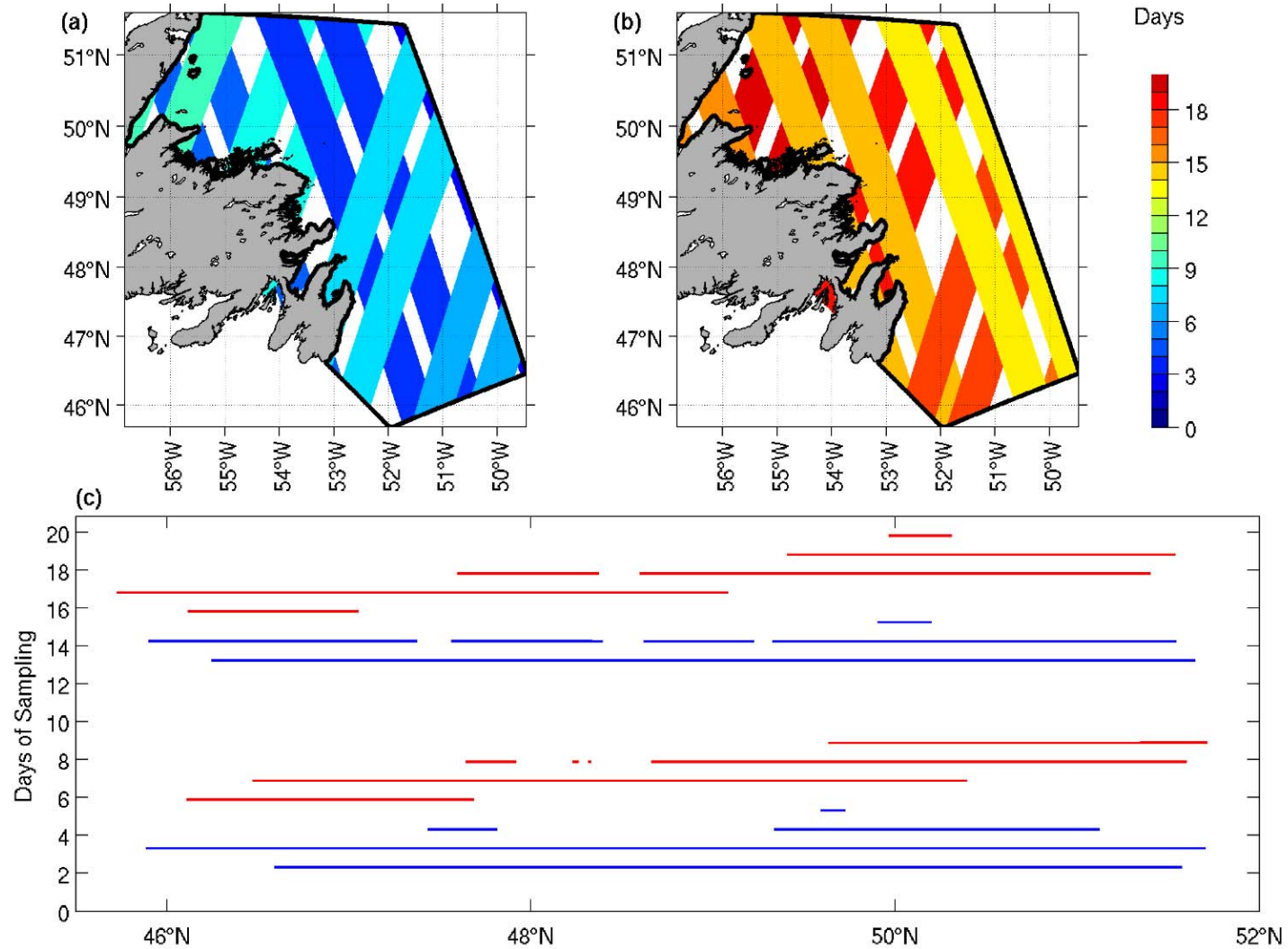
# Numerical Model (FVCOM)

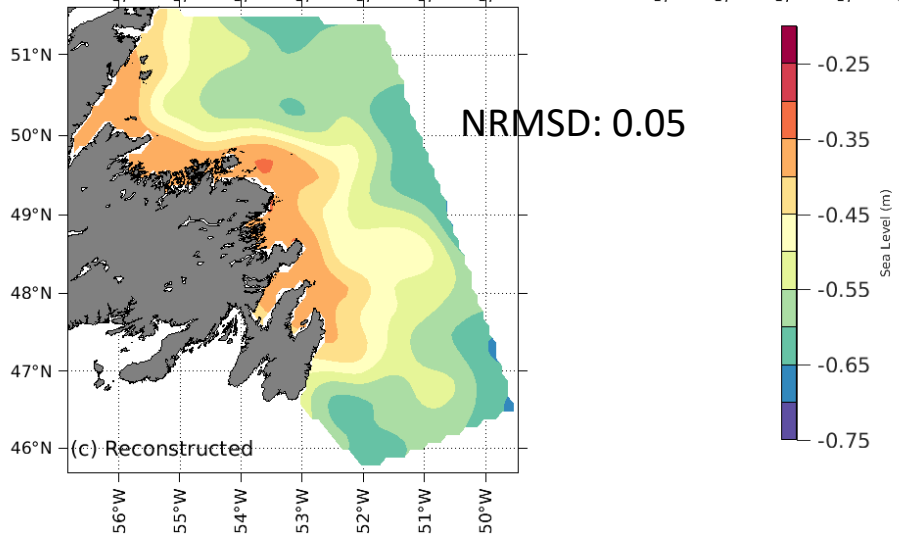
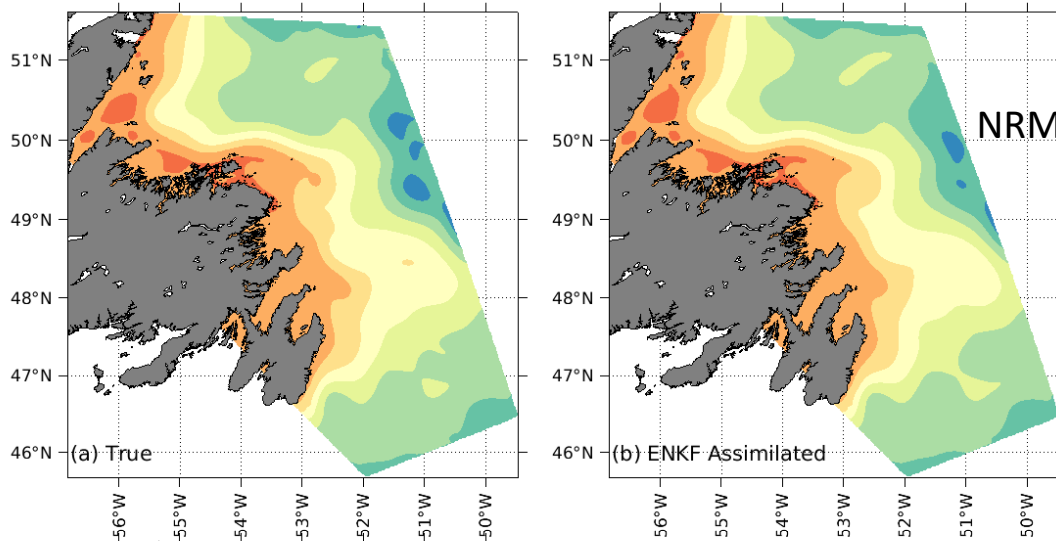
- Vertical layers: Hybrid S-coordinate with the first layer within 1.5m
- Spin-up: 31 days
- Time step: 1.0 s and 10 s for internal and external
- Model period: 1 June, 2010 to 31 October, 2010





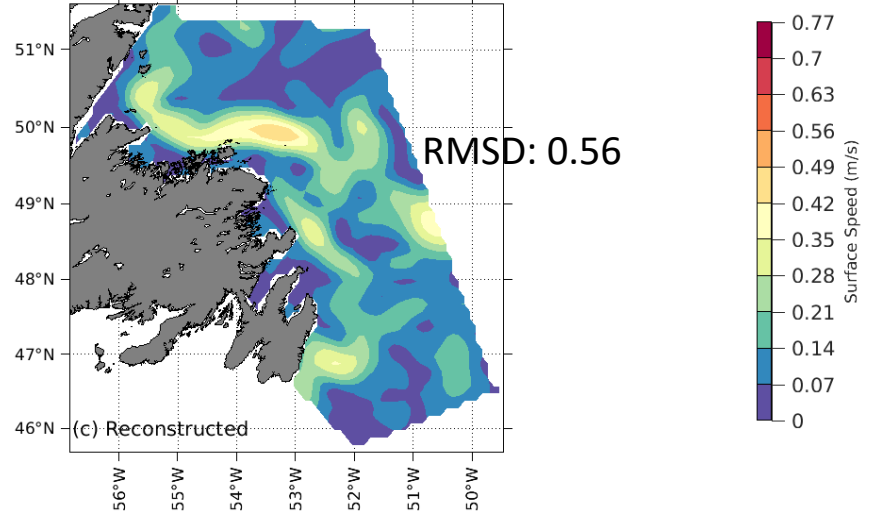
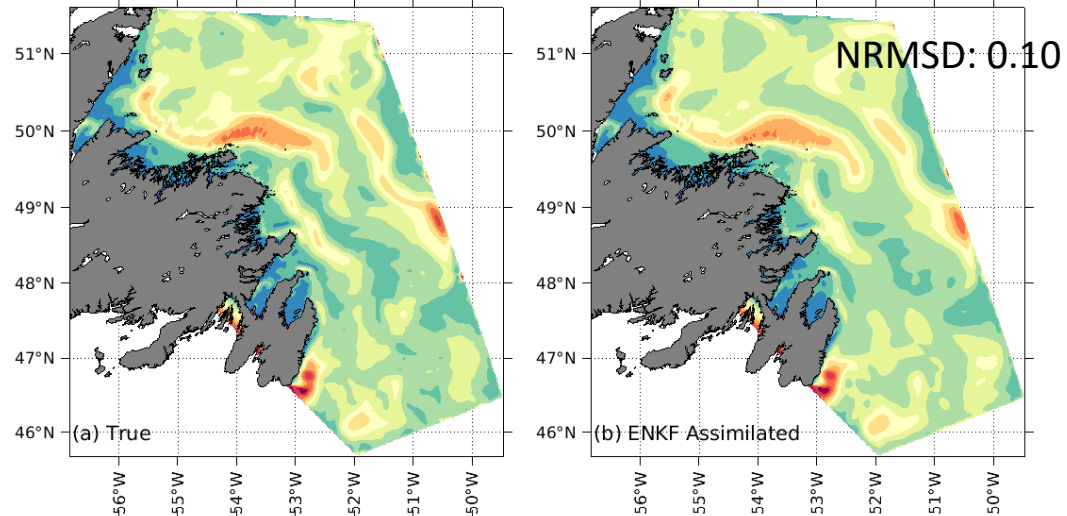
# SWOT Tracks and Simulator

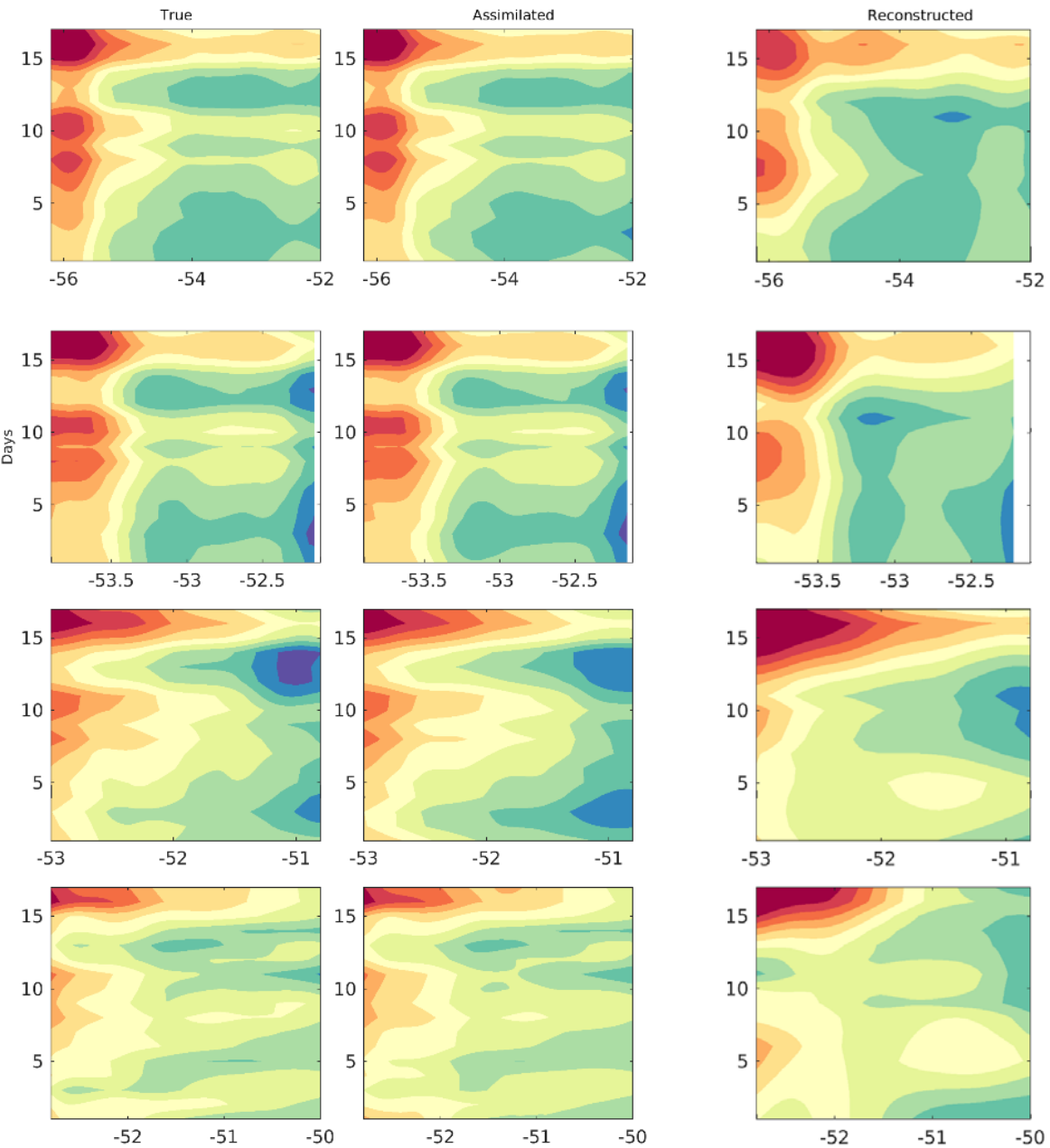




Week 2 Sea level (m)

Week 2 Surface speed (m/s)





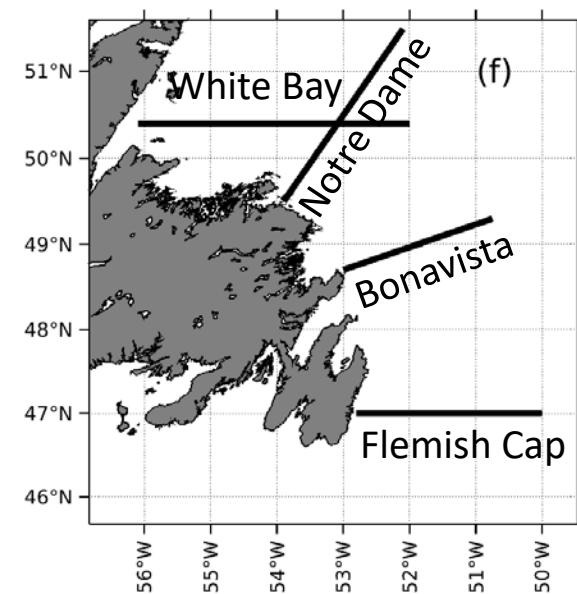
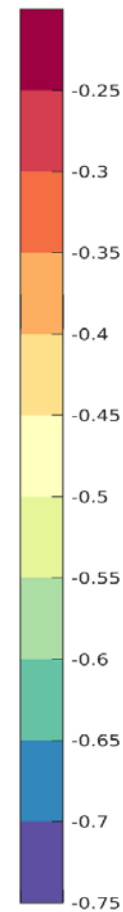
White Bay

Daily Sea level (m)

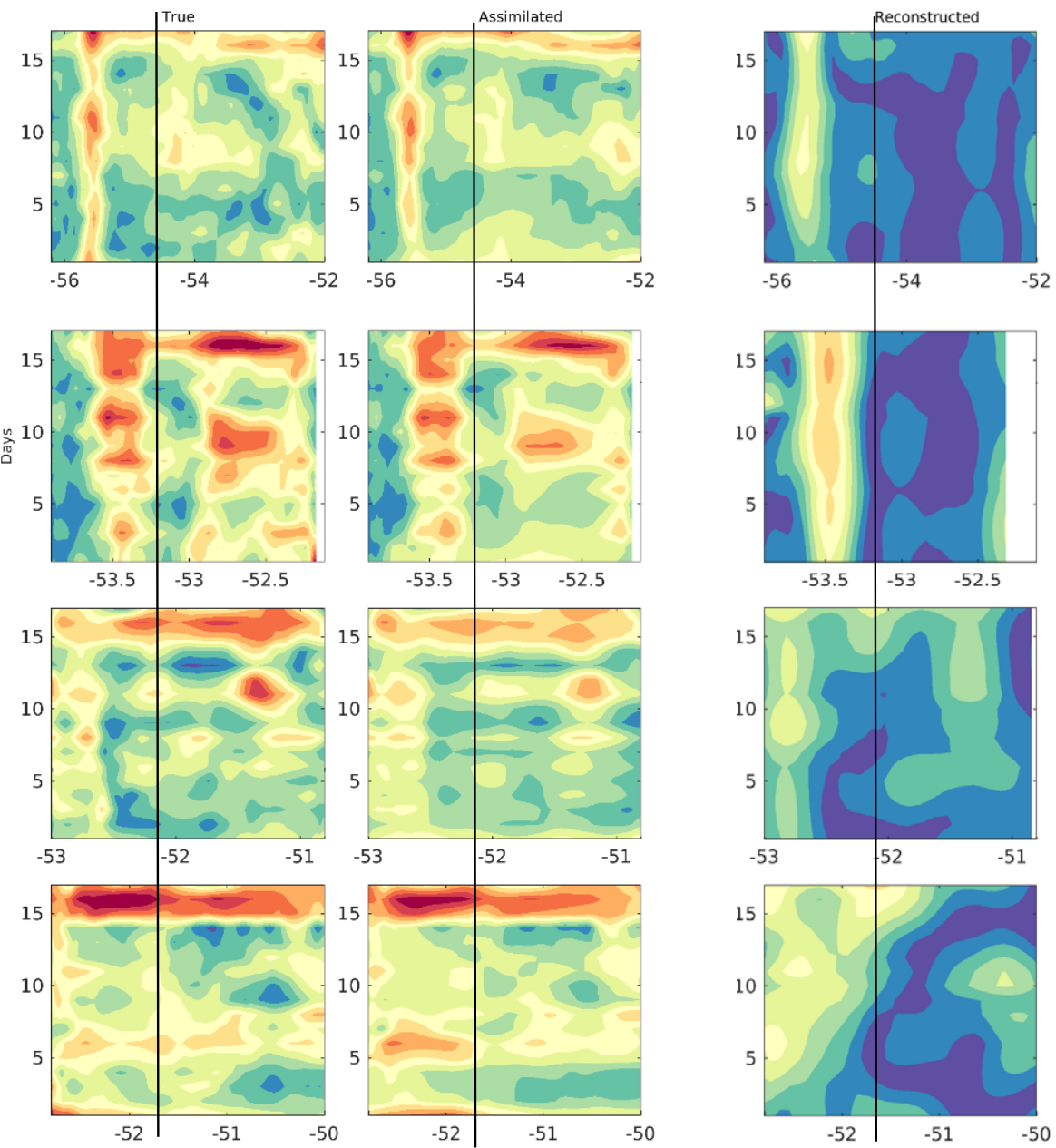
Notre Dame

Bonavista

Flemish Cap







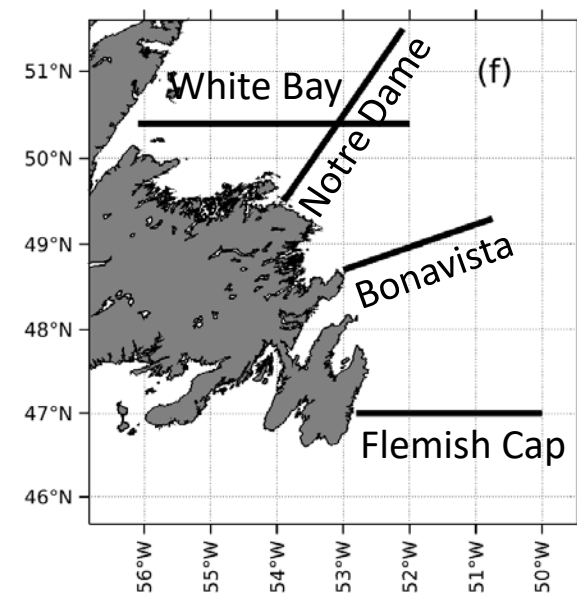
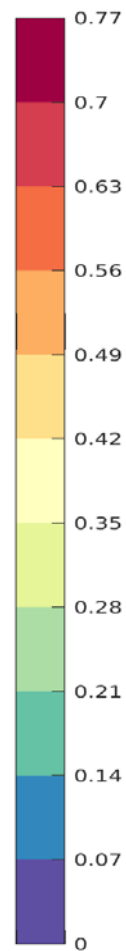
White Bay

Notre Dame

Bonavista

Flemish Cap

Daily Surface Speed (m/s)



# Summary

- **The insure LC can be reconstructed fairly well at the weekly scale**
- **The DEnKF does a good job at both weekly and daily scales**
- **More experiments with DEnKF will be carried out**