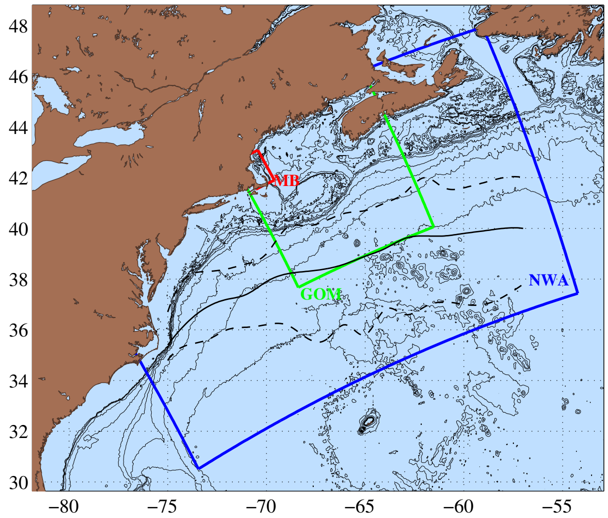
2–Way Nesting

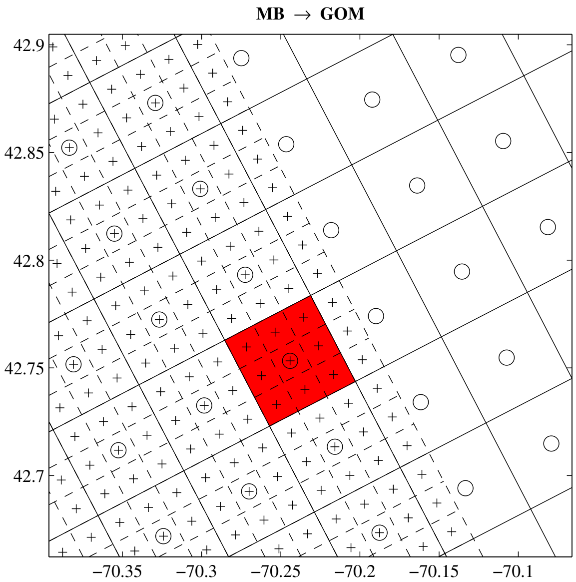
At each time step, independent estimates are made in each domain.

Nesting algorithm "aligns" the estimates at each time step.



Fine grid data is averaged to update coarse grid estimates.

- Collocation simplifies navigation between coarse nodes and supporting fine grid nodes.
- 3:1 ratio for scale matching.



Coarse grid data is interpolated onto fine grid boundaries.

- Bi-Cubic interpolation. Compromise between:
  - Smoothness across coarse grid boundaries.
  - "Footprint" of the interpolation