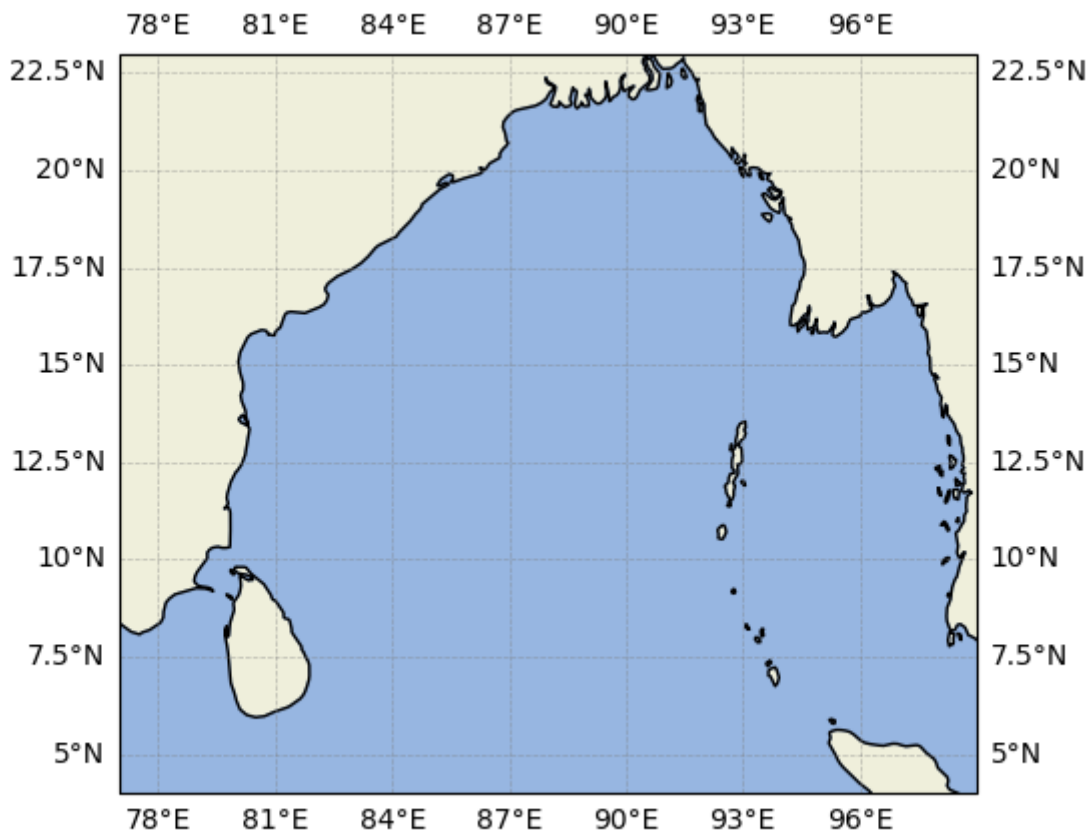The model setup has a uniform horizontal resolution 0.036 degrees and its domain bounded by latitude 4N to 25N and longitudes 77E to 99E. The bottom topography is based on new version of ETOPO (ETOPO version 1).

The model has 41 vertical levels (HYCOM) and spacing gradually increases up to 5000m

All 4 sides are treated as solid rigid walls among them southern wall is fake rigid boundary.