MODELING OCEAN-CLIMATE SYSTEM: Why are there multiple models? **SPATIAL** SCALE GLOBAL Regional Single Particle Plume / Molecular **TEMPORAL PURPOSE** SCALE Climate Change -Operational Research Response Weather to Altered T, P, precip, **PROCESS Conditions** fog, clouds Ocean Chemical -Circulation -Trace Gas & Large scale **Particle** Transport of Emissions, Heat & Chemical Transformation,

Transport & Fate

Compounds