Predictive Capability

RAPID RESPONSE '97

Time evolution of regional circulation system is driven by:

- internal dynamical processes
- inflow and outflow boundary conditions
- surface atmospheric fluxes

Knowledge of internal dynamical processes and boundary conditions is affected by:

- type, density, accuracy and collection strategy of environmental data
- calibration and tuning of physical dynamical model

Knowledge of surface forcing is affected by:

- type, density, accuracy and collection strategy of atmospheric fluxes
- accuracy of atmospheric weather forecast

Predictability is limited:

- in weather forecasts to a few days by internal non-linear dynamics
- within the ocean to a week or two by similar processes