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Model result comparison

EarthObservation vs ModelAssimulatedResults

Big data challenge how to reduce, pyramid

UCAR perabytes of data: hard to manipulate,

1. teleconnection between polar and tropical area or use data mining to discover teleconnection in certain phenomenons, come up with a hypothesis, create model, generate results for prediction, modeling and cross validation. System accesses model results to do teleconnection studies. Scientific problem: 1) hyphthesis in teleconnection, how to prove and validate; 2) facts in teleconnection, how to discover. Use CyberWay to facilitate these two facets of researches.

2. 1) Collect required Earth observation, automatically. Users can search and preprocess the datasets via CyberConnector. (mandotary, agreed item in contract) 2) intercomparison among different models. It need access model results. (secondary); follow the recent feeds from the super computing centers around the world. Historical validation and future prediction.

3. Reanalysis from Arctic data assimulation. Ask David.