

GEWEX Radiation Panel Aerosol Dataset Assessment

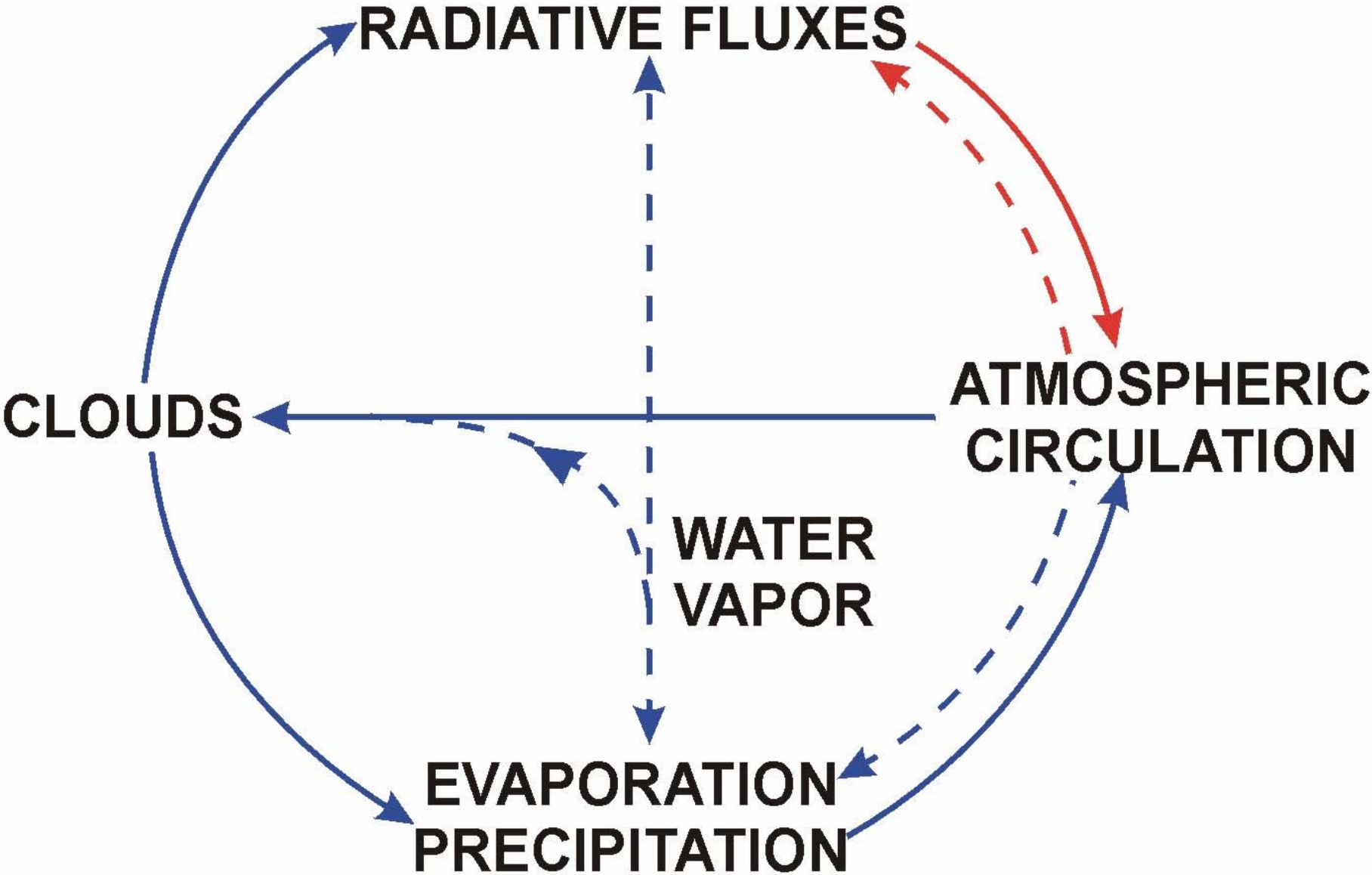
Overview of GRP Goals

To quantify and diagnose the causes of the weather-scale to decadal-scale variations of the energy and water cycle over the whole globe

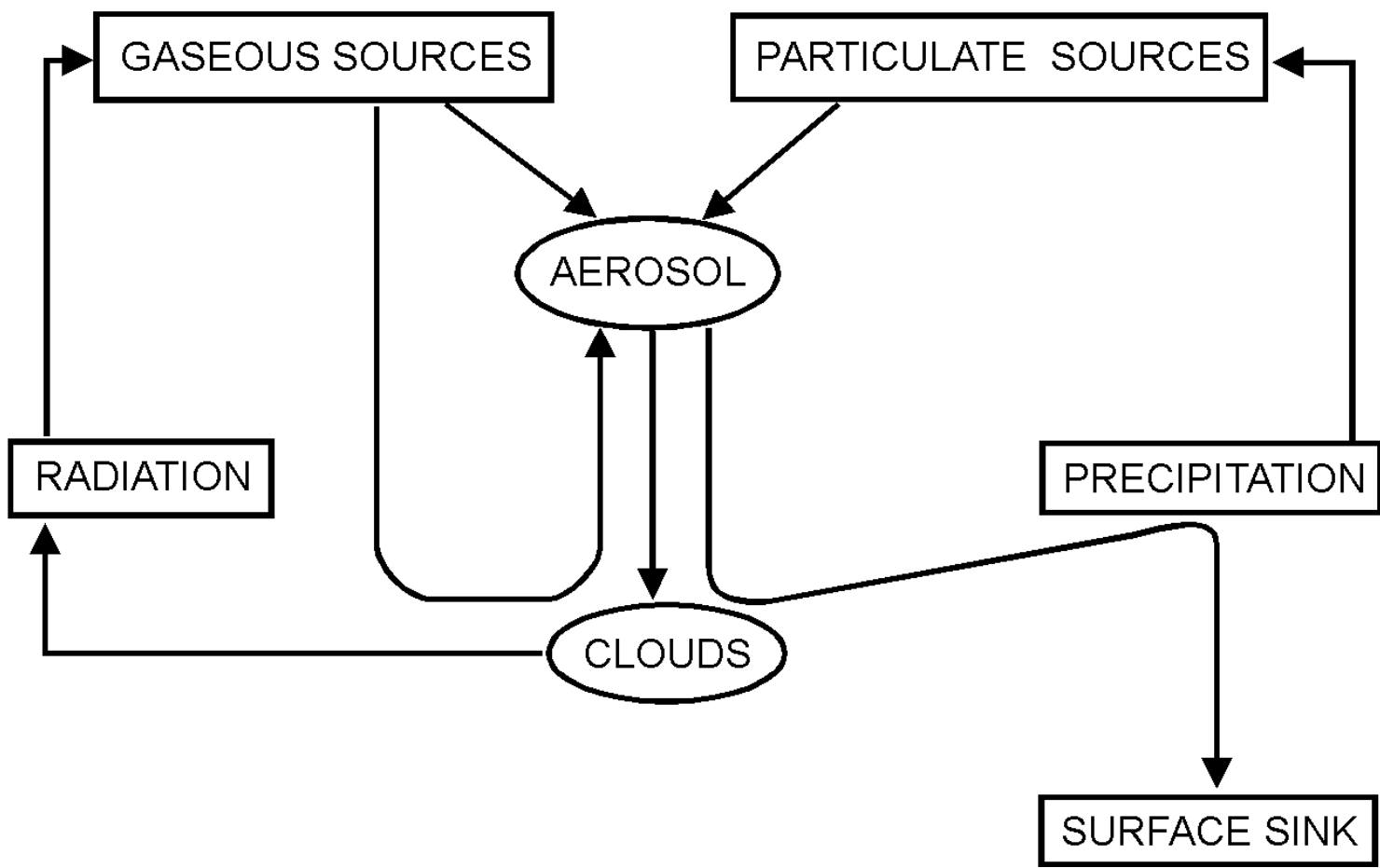
Forcing Changes: sun, volcanoes, human induced changes of atmospheric composition (gases, aerosols) and the land surface

Response to Changes: temperature, humidity, atmosphere and ocean circulations and transports, energy and water exchanges with space and among climate components

ENERGY AND WATER CYCLE OF CLIMATE

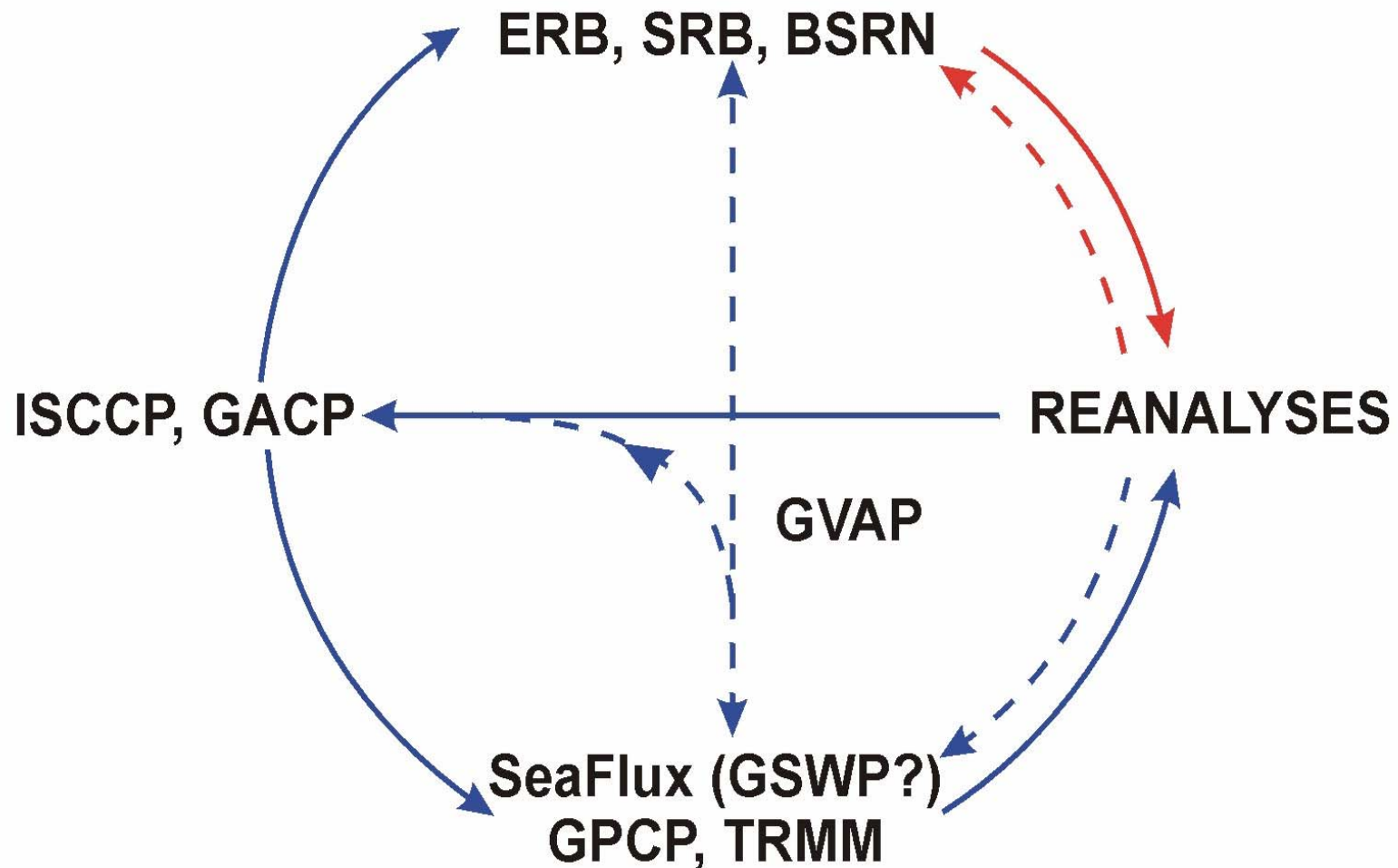


“INDIRECT AEROSOL FORCING” IS AEROSOL-CLOUD-CLIMATE FEEDBACK

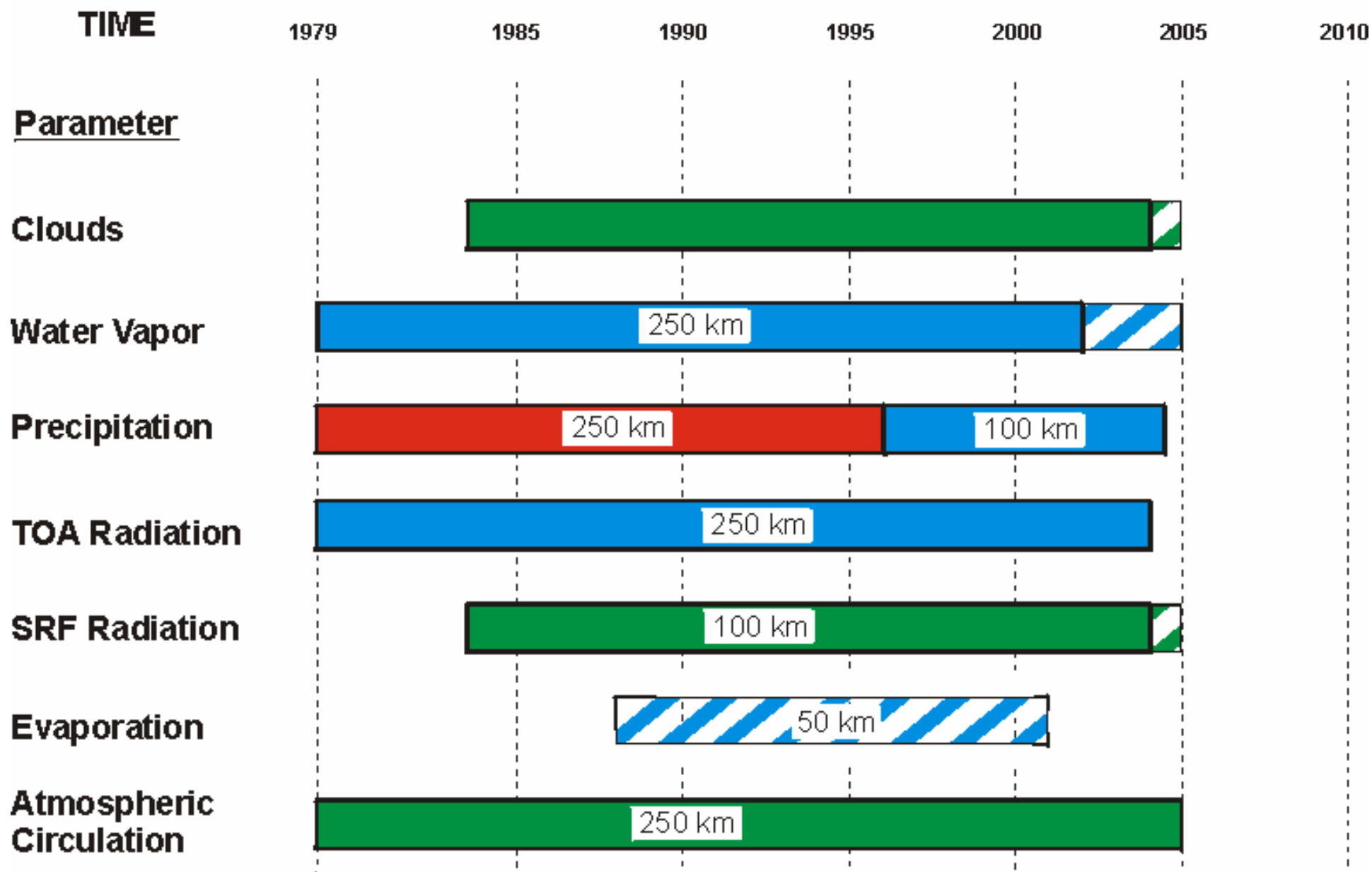
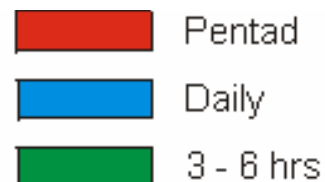


GEWEX Global Data Projects

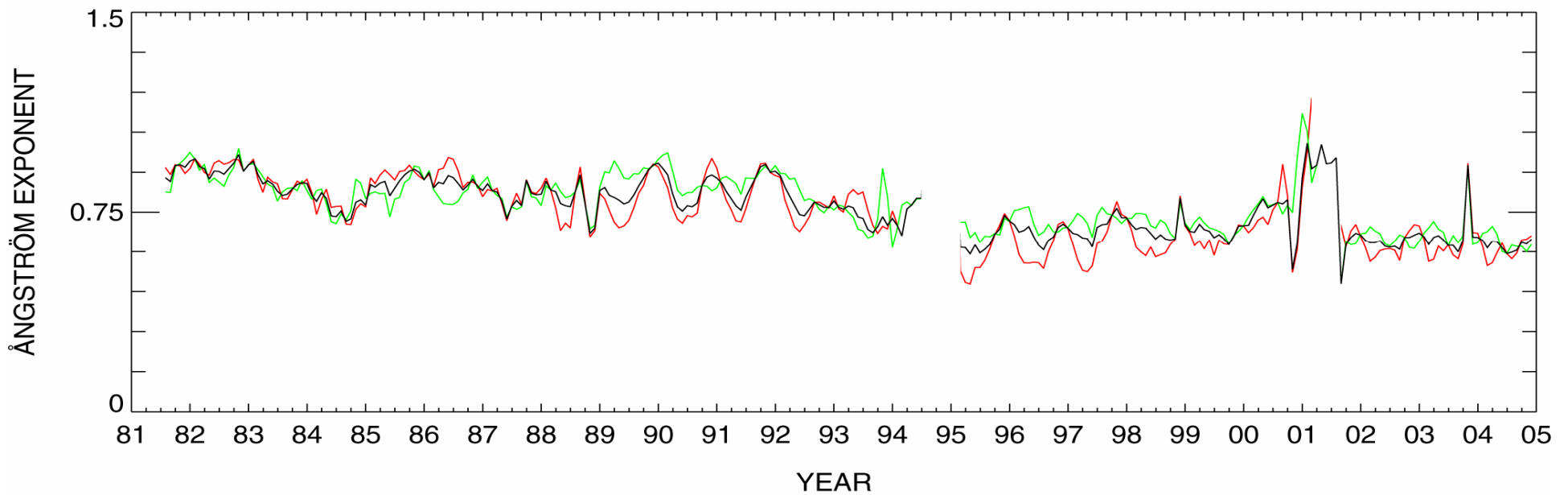
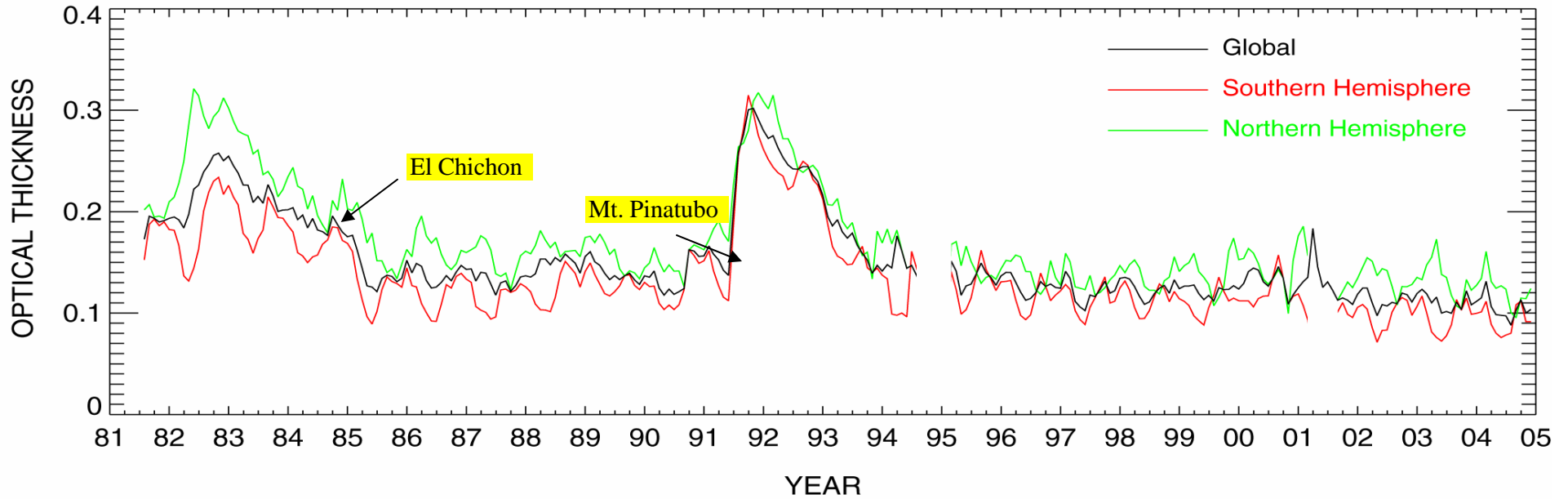
ENERGY AND WATER CYCLE OF CLIMATE



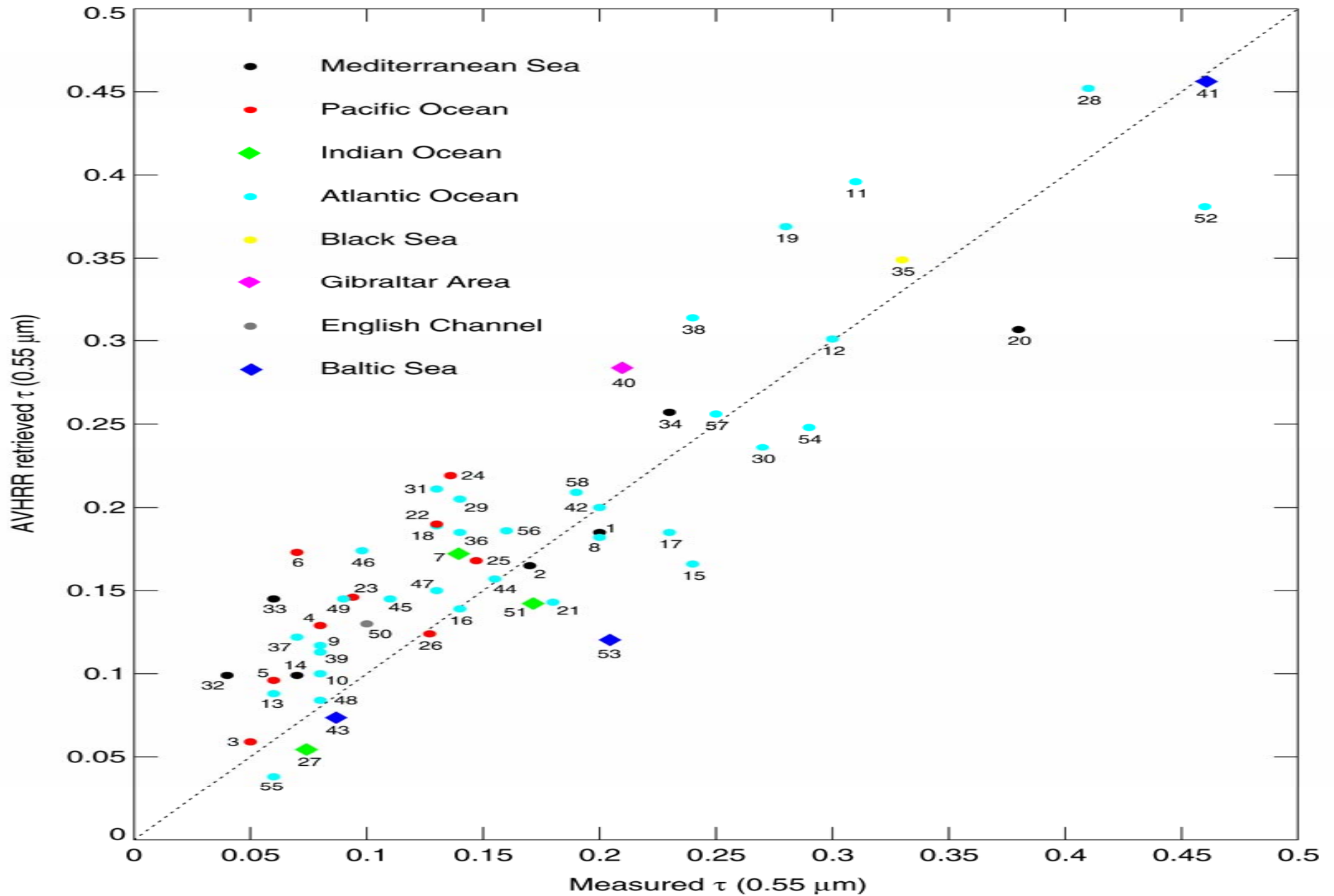
Available Global Datasets



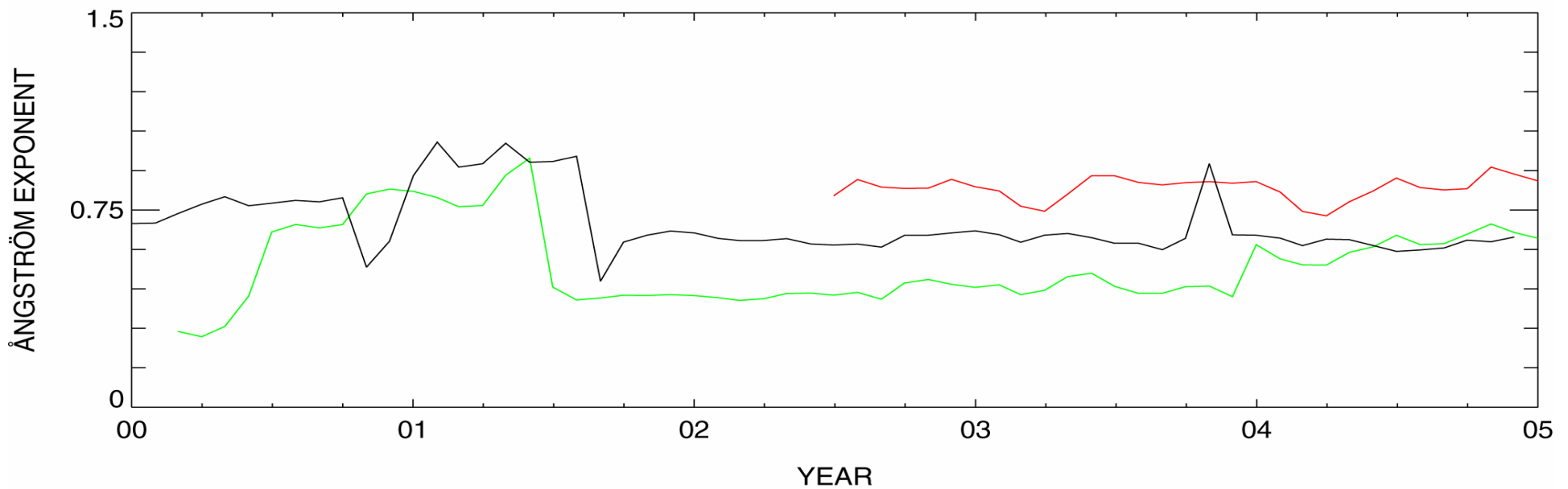
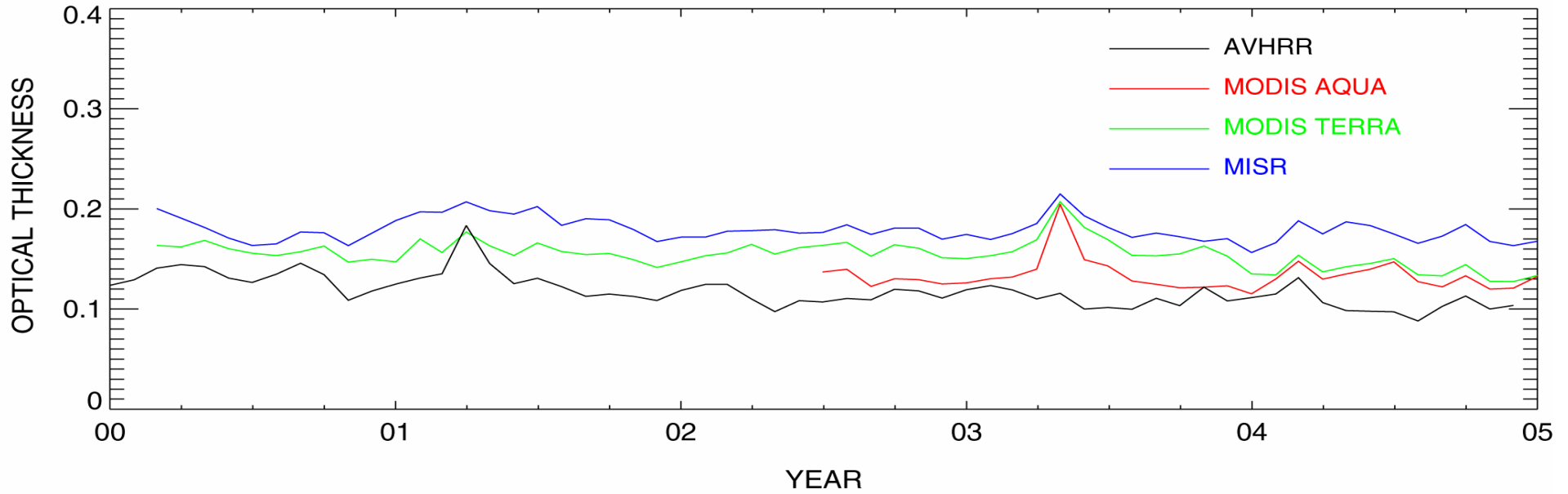
Global long-term record



Validation vs ship-borne sunphotometer data



Comparison with MODIS and MISR



GRP Charge to Aerosol Assessment WG

Evaluate Long-term Precision and Accuracy of GACP Product

Global, monthly mean long-term record

Sampling (resolution) and Coverage

Investigate Causes of Errors

Develop Extension to Land (Ice) Areas

Evaluate Other Aerosol Products If Producers Participate

