

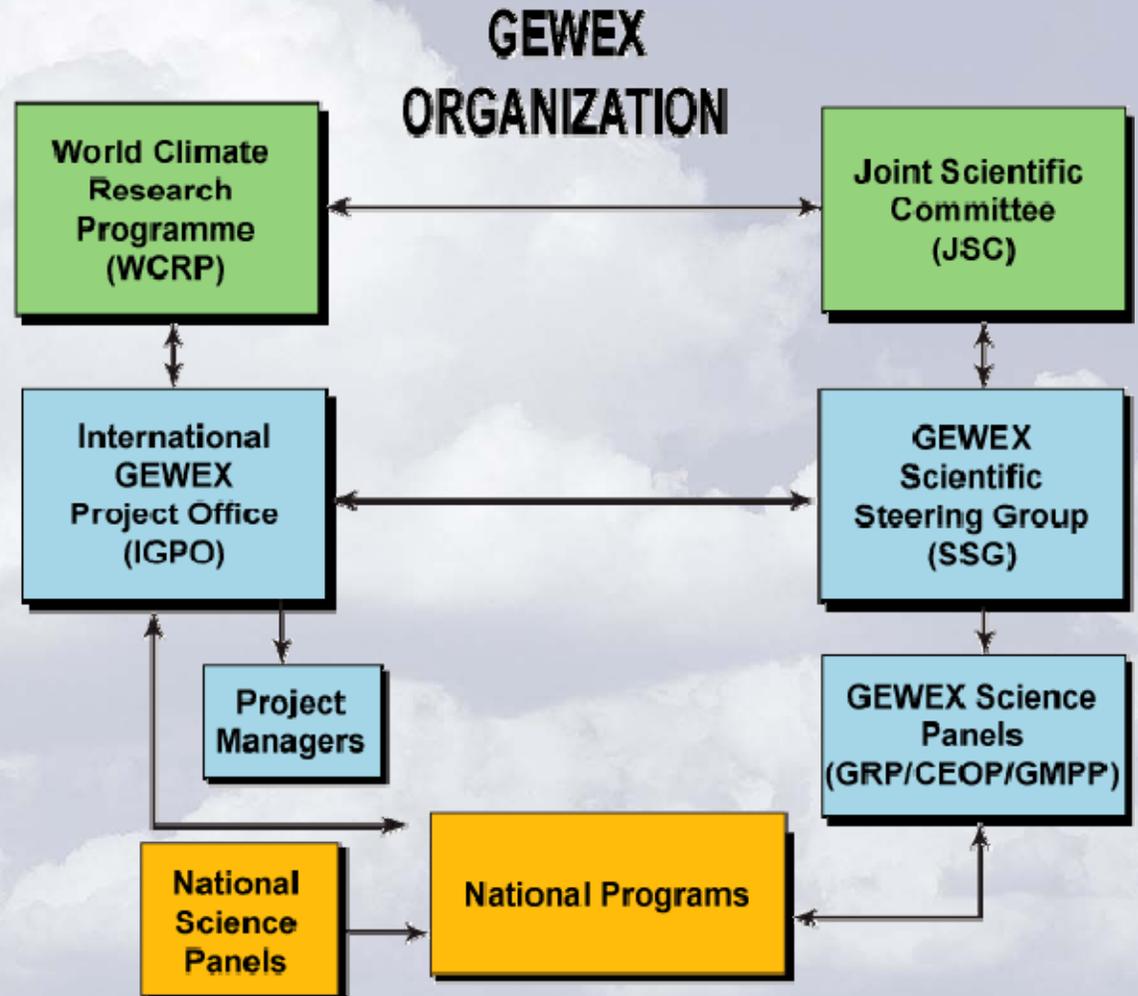
GEWEX Radiation Panel Meeting Report

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The GEWEX Radiation Panel (GRP)

Within the World Climate Research Program (WCRP) and its Global Energy and Water Cycle Experiment (GEWEX), the GEWEX Radiation Panel was organized to review theoretical and experimental knowledge of radiative processes in and for the study of the climate system.



GRP Science Focus

THE GRP FOCUSES ON TRYING TO ANSWER THESE QUESTIONS:

- How can we better measure and characterize the state and the variations of the climate using satellite observations?
- What are the changes in radiative forcing that cause climate change?
- How do the interactions of radiation with changes of the internal state of the climate (*a.k.a. radiative feedbacks*) affect the climate's sensitivity?
- How do the internal water exchange and transport processes in the climate (*a.k.a. water feedbacks*) affect the climate's sensitivity?

GRP Meeting in South Korea

The focus of the meeting in South Korea was to assess the status of key satellite-based, global data products and their validation.

- ISCCP – Clouds and radiation (Rossow)
- SRB – TOA and Surface Radiative Fluxes (Stackhouse)
- GPCP – Precipitation (Adler)
- GACP – Aerosol Properties (Mishchenko)
- SeaFlux – Ocean surface turbulent fluxes (Clayson)
- LandFlux – Land surface turbulent fluxes (Rossow)
- TBD – Tropospheric water vapor (Schulz)

How can ARM get involved?

We already are...

BSRN (Baseline Surface Radiation Network)

<http://www.bsrn.awi.de/>

Contact: Els Dutton

CIRC (Continual Intercomparison of Radiation Codes)

<http://climate.gsfc.nasa.gov/CIRC/>

Contact: Lazaros Oreopoulos

Other potential ARM Activities

There is a lot of potential to use ARM data to validate GRP products:

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Relatively new activity with potential for more ARM involvement is an assessment of cloud products:

<http://climserv.ipsl.polytechnique.fr/gewexca/> (Stubenreich, Kinne)

GRP Contact Information

Visit the GRP or GEWEX web sites to learn more about international activities advancing climate research.

GRP: <http://rain.atmos.colostate.edu/GRP/>

Chair, Christian Kummerow, Colorado State

GEWEX: <http://www.gewex.org/>

Upcoming GEWEX Conference in Melbourne, Australia

24-28 August 2009