

Panel discussion topics?

- How do we address continuity – purely on reliance on operational systems; research systems? e.g. NASA ventures continuity, **SMOS?**
- How might an international body like GEWEX help individual agencies reach goals (one example is ISCCP-nex-gen → program of record specific contribution to the A-CCP Decadal survey recommended designated observable)
- GEWEX could offer a wider view of real and perceived gaps in EO - **Sentinel GEWEX –related Gaps?**
- How might a GEWEX help develop a more integrative approach to setting science and applications objectives?
 - Variable versus system approach to science and EO specifically?
 - EU Copernicus – is this the model for Earth science and applications, other approaches(like NEWS.

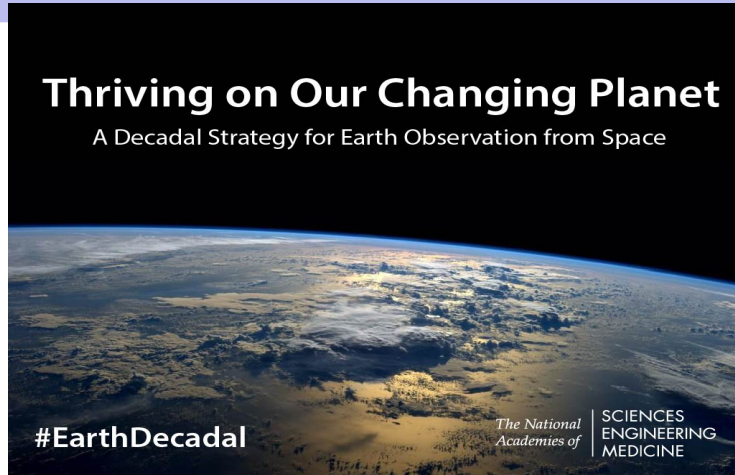
Some ways GEWEX might help the space agencies

1) **Data record stewardship** – refer to for example GDAP highlights – GEWEX is able to bring an independent international community together to assess data records and define independent errors (essential for integrated analysis).

2) **Coordinate** across agencies to develop new, improved data records –e.g. ISCCP Next gen as a direct contribution to different agencies goals

3) **Gap identification** from a GEWEX perspective – e..g. hydrology with sentinel

4) A more integrated, Earth system focus rather than a variable centric approach?

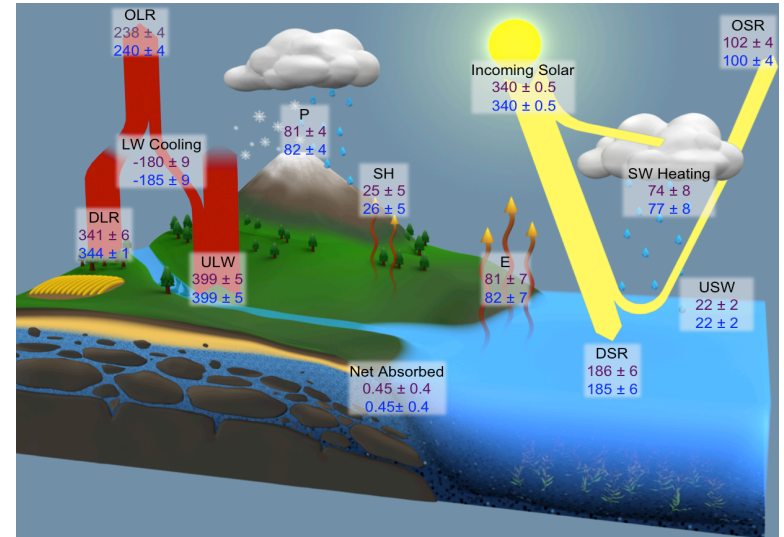
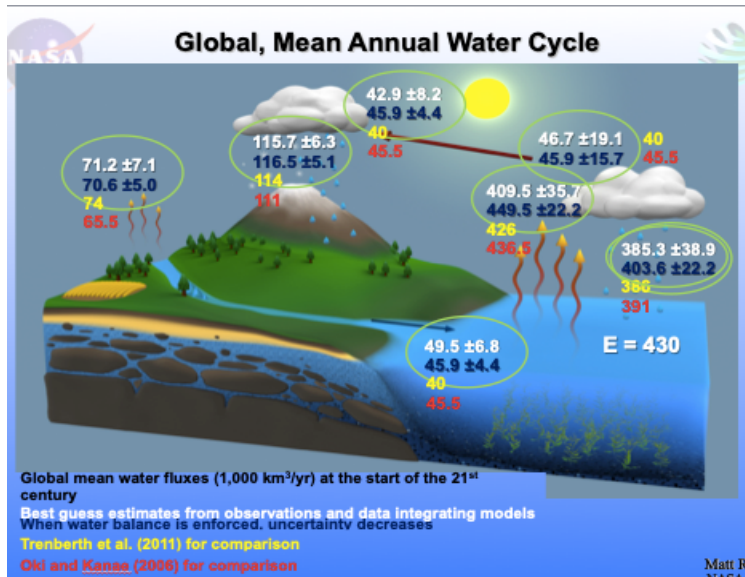


Community definition of most important objectives of the next decade

The Hydrology panel Most Important objective:

(H-1a) Interaction of Water and Energy Cycles. Develop and evaluate an integrated Earth System analysis (water + energy) – an objective that address directly the water/energy IT. Most hydrological variables require an advance analysis system -the multifaceted character of precipitation is one example where duration of precipitation events and total water output requires the integration of snap-shot observations into a dynamic analysis system. ET is another example. This energy flux explicitly couples the water and energy cycles at the surface and is a net result of a number of complex processes that cannot be synthesized from any single remote sensing measurement alone.

NASA NEWS example



NASA NEWS project was one example of how integration can be done integration – this integration is central to GEWEX broad objectives – now as ‘process teams’