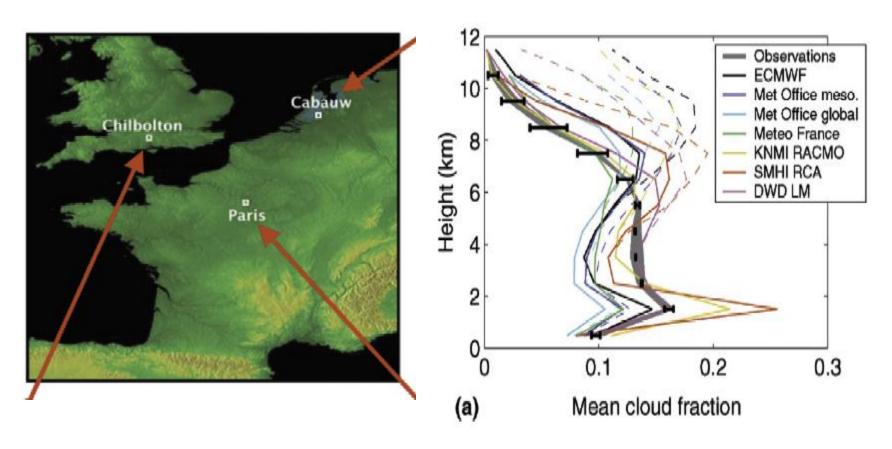
ARM Validation Data for Climate Models

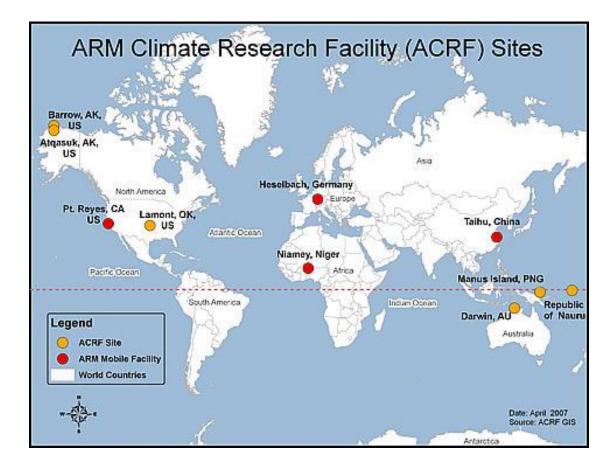
- 1. ARM-Net
- 2. Best Estimate Climate Data

CloudNet – A European Project



(Illingworth et al. BAMS 2007)

ARM-Net A Proposal from UK to ARM



The Proposal (Hogan et al.)

- 1. Cloud radar data from ARM and European sites are processed into GCM variables (cloud fraction, liquid water and ice water).
- 2. Seven European models, NCEP models, and other climate models are evaluated (*near real-time* processing)

ARM asks for input:

- 1. Whether this is useful to CAM?
- 2. How can AMWG make use of the proposed activity?

Climate Modeling Best Estimate Datase

Initial data list

- Cloud fraction from ARSCL and TSI
- Liquid water path and precipitable water from MWRRET
- Surface Radiative Fluxes from QCRAD

Data available at all five ARM primary research sites

http://iop.archive.arm.gov/arm-iop/0showcase-data/cmbe/

SGP.C1	Lamont, OK	1996 – 2007
NSA.C1	Barrow, AK	1998 2007
TWP.C1	Manus Island, PNG	1996 2007
TWP.C2	Nauru, PNG	1998 2007
TWP.C3	Darwin,AU	2002 2007

(From Xie et al. 2008)

ARM to AMWG:

Can these best estimate products be added to the AMWG diagnostic package?