



The DOE ARM Best Estimate Dataset (ARMBE)

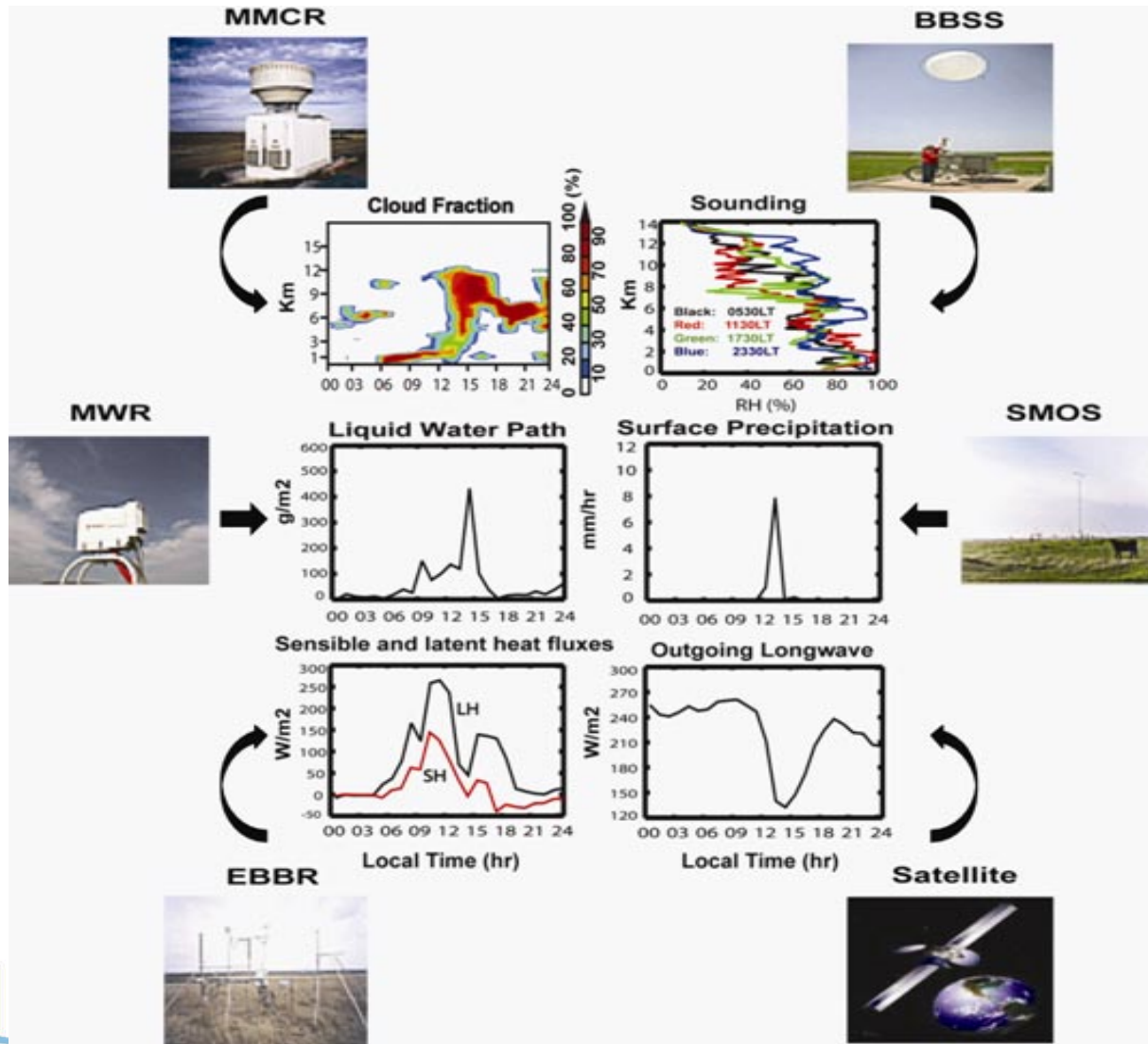
Shaocheng Xie and Renata McCoy

***Atmospheric, Earth and Energy Division
Lawrence Livermore National Laboratory***

What Do We Have in ARMBE?

- **ARMBE-CLDRAD**
 - Cloud fraction profiles
 - Total clouds
 - LWP/PW
 - Surface radiative fluxes
 - TOA radiative fluxes
 - Satellite retrieved clouds
- **ARMBE-ATM**
 - Soundings
 - NWP analysis data
 - Surface heat fluxes
 - Surface precipitation
 - Surface temp, RH, and winds
- **ARMBE-cloud/aerosol properties ACRED+RIPBE**
 - LWC/IWC
 - liquid re, ice re
 - LWP/IWP
- **ARMBE - Land**
 - Soil temperature, soil moisture, soil heat flux
 - CO2 concentration and density
 - photosynthetic photon flux density
- **ARMBE - AMF**
 - Selected AMF deployments
- **ARMBE – Domain-AVG**
 - Only for SGP

An Integrated Product



ARMBE Availability

ARMBECLDRAD

- NSA.C1: NSA-Barrow 01/01/1998 - 12/31/2010
- SGP.C1: SGP-Lamont: 01/01/1994 - 12/31/2011
- TWP.C1: TWP-Manus: 01/01/1996 - 12/31/2010
- TWP.C2: TWP-Nauru Island: 01/01/1996 - 12/31/2010
- TWP.C3: TropTWP-Darwin: 01/01/1996 - 12/31/2010

ARMBEATM :

- NSA.C1: NSA-Barrow: 01/01/2001 - 12/31/2010
- SGP.C1: SGP-Lamont: 01/01/1994 - 12/31/2012
- TWP.C1: TWP-Manus: 01/01/1996 - 12/31/2010
- TWP.C2: TWP-Nauru Island: 01/01/1996 - 12/31/2010
- TWP.C3: TWP-Darwin: 01/01/1996 - 12/31/2010

ARMBE-Others: Vary with products

Questions?