

CLOUD LIFECYCLE WORKING GROUP ACTIVITIES

Co-Chairs: Matt Shupe, Tony Del Genio

**Science Steering Group: Jennifer Comstock,
Steve Klein, Steve Krueger, Jay Mace**

Translators: Mike Jensen, Shaocheng Xie

ASR Science Team Meeting

3/30/11

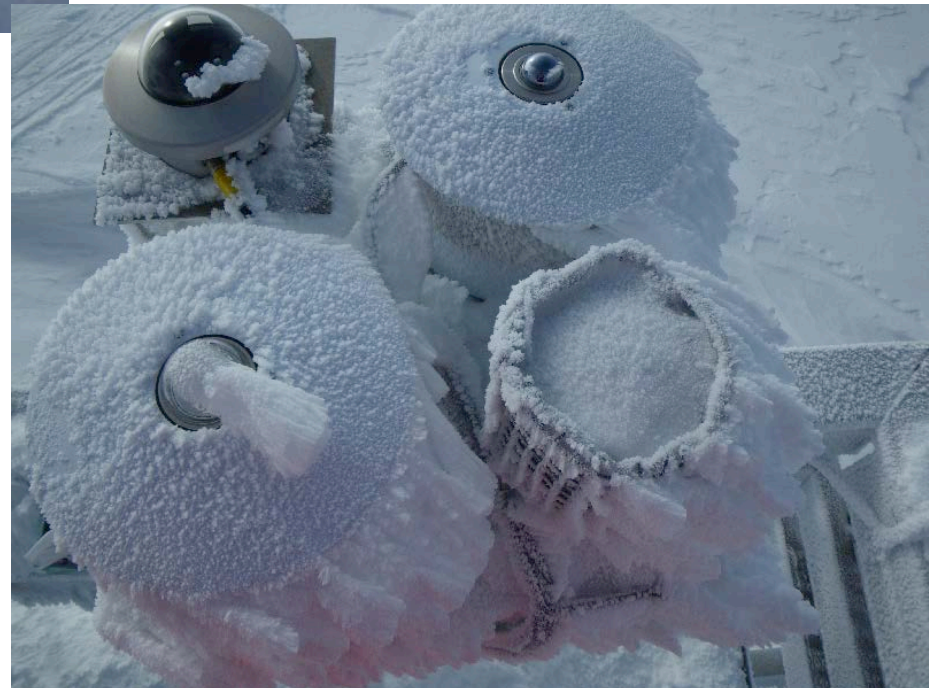
- **Largest WG in ASR (~50% of total)**
- **Research interests across many cloud types**
 - **Convective (largest subgroup)**
 - **Cirrus**
 - **Low clouds**
 - **Warm (subtropical)**
 - **Cold (Arctic)**
 - **Midlatitude storm clouds (a little)**

Campaigns: Recent/ongoing

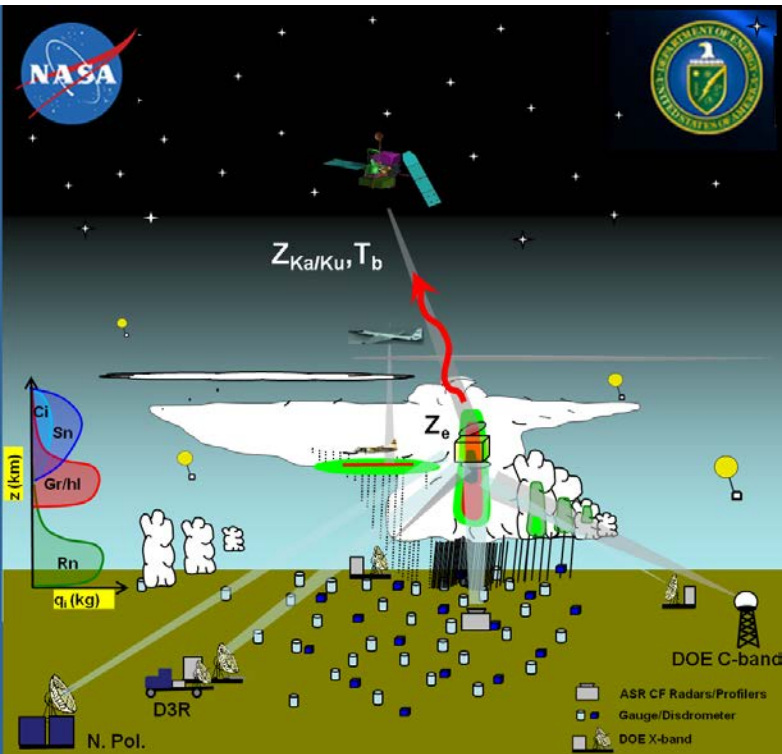


SpartICus
SGP/AAF
Jay Mace, Lead

STORMVEX
Steamboat Springs/AMF2
Jay Mace, Lead



Campaigns: Upcoming



MC3E

SGP

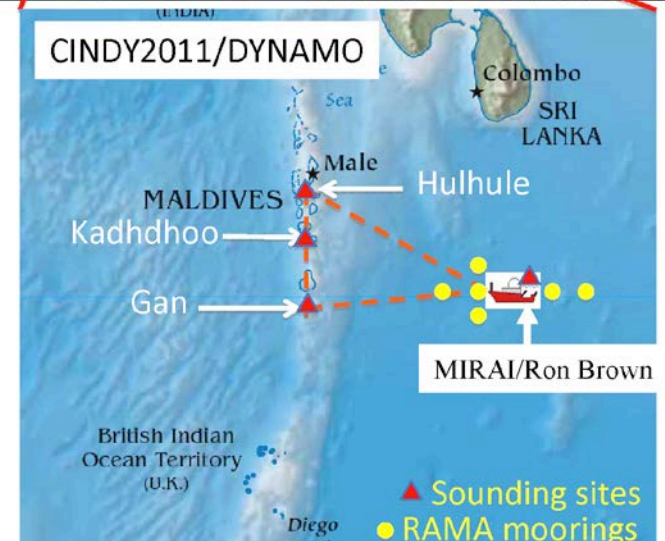
Mike Jensen, Lead



AMIE

TWP (Manus, Gan)

Chuck Long, Lead



Encouraging exploration of focus groups

- **Proposed**
 - **Vertical Velocity (Kollias)**
 - **MJO (Long, Hagos)**
- **Other suggestions from Fall Meeting**
 - **Ice formation in Arctic stratus**
 - **Precipitation in low clouds (with CAPI?)**
 - **Entrainment in low clouds**
- **More proposals to be presented at Thursday breakout**

PI presentations – emphasis on processes

- **Virendra Ghate: Boundary layer structure regimes in Azores**
- **Chunsong Lu: Entrainment mixing mechanisms**
- **Amy Solomon: Maintenance of Arctic mixed-phase stratocumulus**
- **Shree Mishra: Representing ice fall speed in climate models**
- **Sally McFarlane: Life cycle of tropical convection and anvils**
- **Christian Jakob: Large-small scale relationship in convecting atmosphere**