## Radars and Convection Poster Sessions

## **Data Products**

- Data products <u>DYNAMO</u>
  - NOAA P-3 Tail Radar Z, CZ, V native submitted
  - SPOL Z, V, Pol native and gridded available, PID needs improvement
  - SMART-R Z, V, H<sub>top</sub> gridded available, Sector mask needed, LH by request
  - Mirai C-band Z, V, C-S, H<sub>top</sub> gridded volume available, surveillance scans to come
  - TOGA C-band Z native available, V in progress
- Data products <u>ARM</u>
  - CSAPR (Manus) Z<sub>corr</sub>\*, V, gridded to come
  - KAZR (Gan) Merged SPOL/KAZR Z, microphysics and radiative heating available; KAZR (Manus) to come
- Gan DSD and NOAA P-3 Z-R calculations
  - All facilities have rain product, but need updated Z-R
- Improved convective-stratiform partitioning

## Science Results

- Cloud Population
  - Boundary layer cloud formation
  - Transition of cloud populations
  - Life cycle of precipitating clouds
- MJO Convective Characteristics
  - Discharge-recharge not supported
  - Deeper convection with more stratiform during active MJO
  - KWs modulating MJO convection
  - MJO convection over land
  - Additional ITCZ convection differs from MJO
- Microphysics and Kinematics
  - Ice species impact during MJO
  - Relating kinematics to HID

## Remaining Issues

- Radar data catalog should include product identification table
- Future research:
  - Evolution of cloud population
  - Transition from non-precipitating to precipitating
  - Microphysical and kinematic properties
  - Environmental influence (i.e., waves, moisture)