An Update from the Satellite Climate Studies Branch (SCSB)

Ralph Ferraro
Chief, Satellite Climate Studies Branch
NOAA/NESDIS/STAR/CoRP
CoRP and Federal Presence at CI’s

Why?

- Promotes closer scientific engagement
- Leverages expertise of both groups
- Multidisciplinary problem solving
- Helps promote outreach
- Shapes NOAA’s next generation of scientists!
Our SCSB Family

NOAA Federal Employees

Ralph Ferraro
Satellite Hydrology

Chris Brown
Ecological Modeling

Huan Meng
Snowfall/JPSS

Scott Rudlosky
Lightning/GOES-R

Tom Smith
Climate/Time Series

Additional “Family” Members

Deb Baker
Administration

Ama Ba
NOAA/NWS

Emily Rosenthal
NOAA WRP Summer Intern May – Aug 2016
FY16 Focus Areas

Satellites

Operational/Research Products

Training

Climate Monitoring and Prediction
Unique Example – Joint SCSB and UMD Activity
Verifying Sea Nettle Predictions Using the JellyCam

Likelihood Of Presence Prediction

JellyCam Schematic

Automated Detection & Counting System

Chris Brown

Deepika Regani, UMD EE M.S. student
FY17 - Emerging Opportunities

- **Water!**
  - NOAA’s National Water Initiative
    - Precipitation Fusion for regional monitoring
    - Seasonal Precipitation Forecast
  - NOAA/NWS/National Water Center
    - National Water Model – forcings from satellite products for WRF-Hydro
    - Situational awareness
    - Water quality – what happens AFTERwards?

- **GOES-R**
  - Rapid scan
  - Lightning

- **JPSS-1**
  - CICS-MD/SCSB Satellite Proving Ground/Training Center (PGTC)

- **Climate**
  - Exploitation of CDR’s
    - Monitoring and Prediction
  - Expansion of CDR’s to JPSS
    - e.g., expand AMSU/MHS to ATMS