



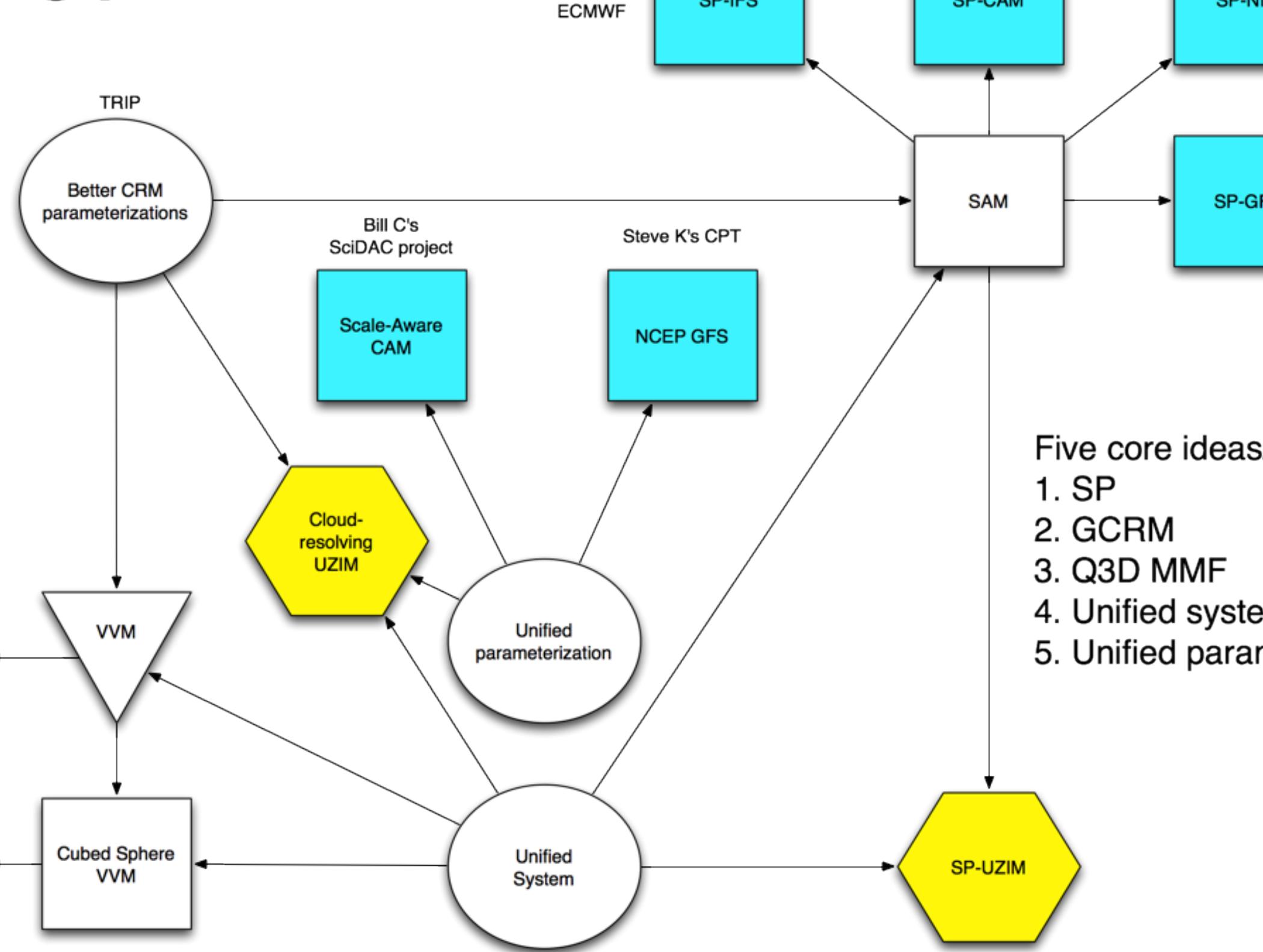
**KT Breakout**  
**Thursday, August 8, 2013**

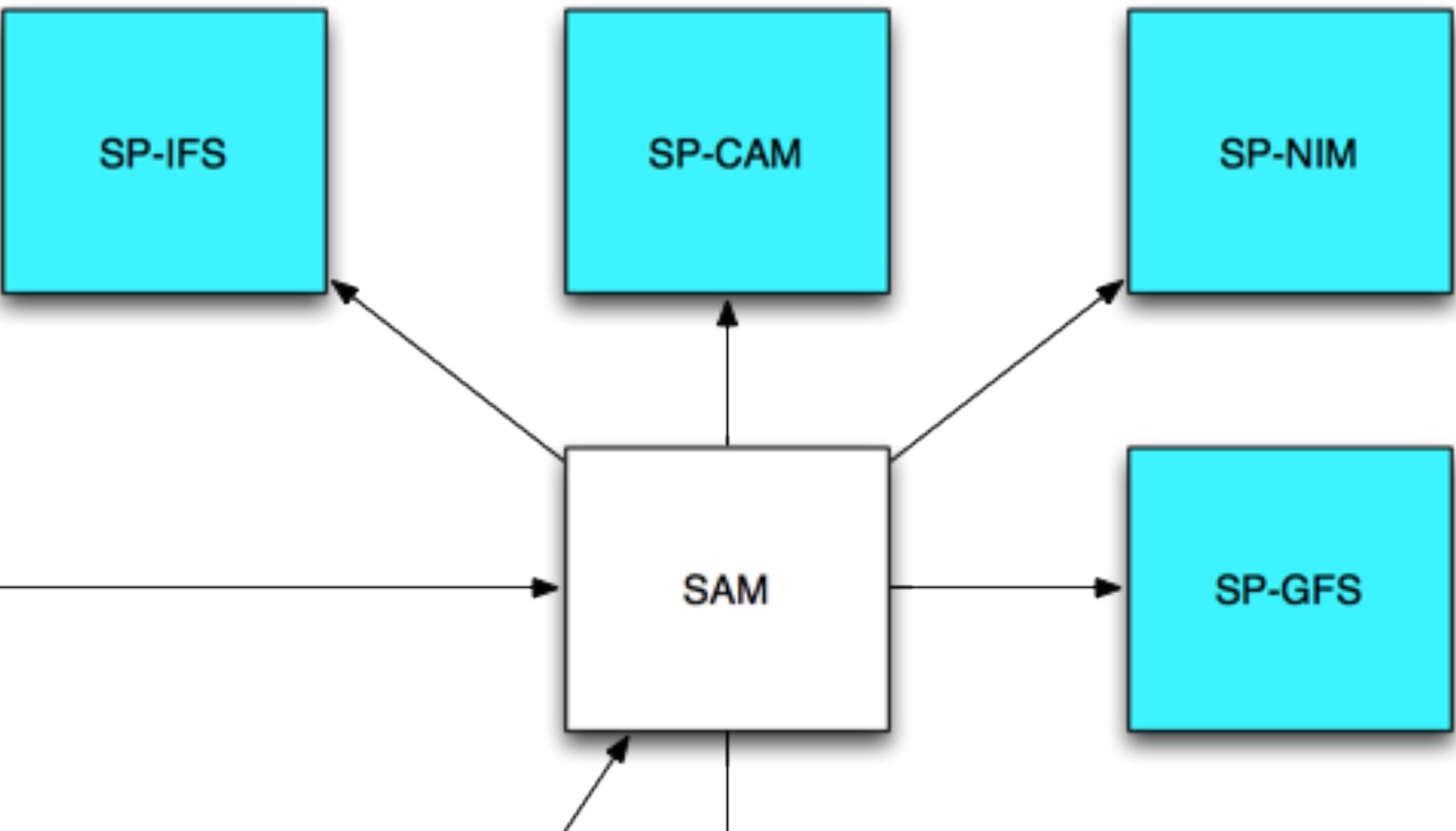
# 15th CMMAP Team Meeting

August 6-8, 2013

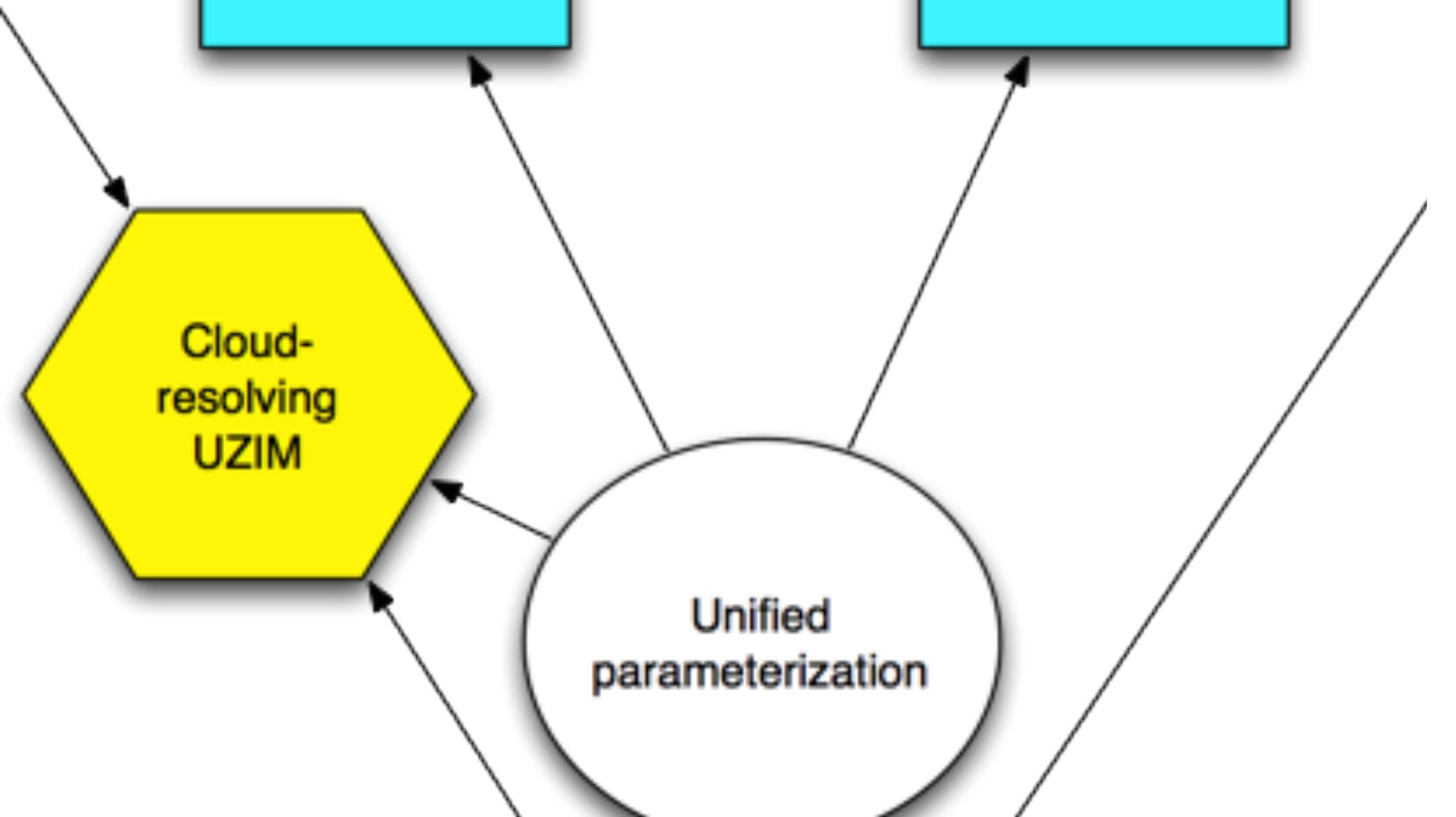
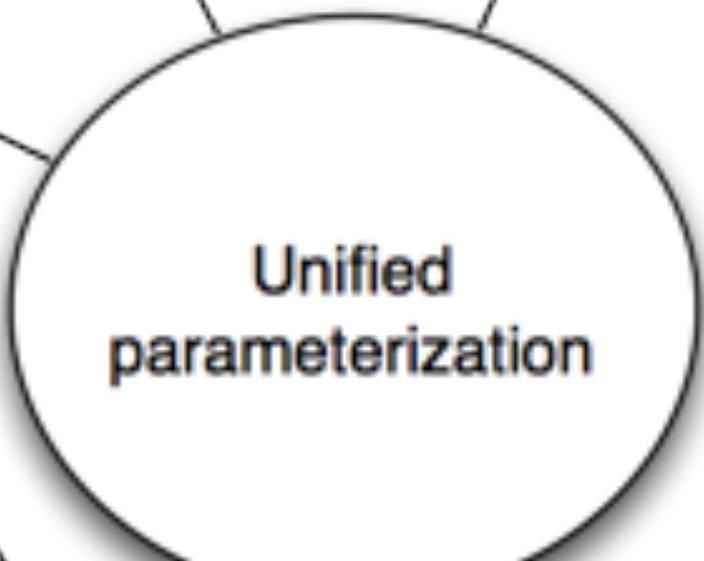
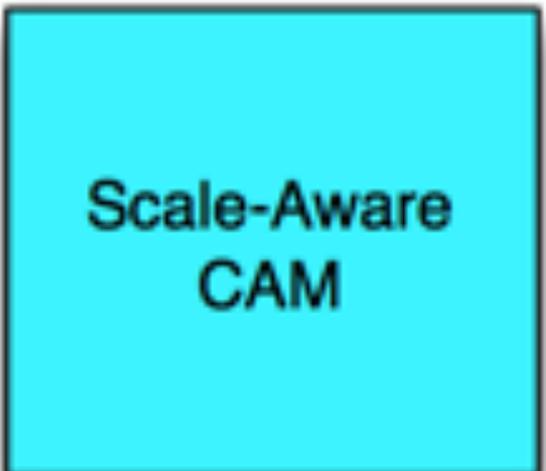
**Tuesday, August 6, 2013**

8:30	David Randall	Opening remarks and updates
9:00	Wojciech Grabowski	Growth of cloud droplet and raindrops in turbulent clouds
9:45		<i>Break</i>
10:00	Pechan/Donnelson	Non-profit (Reach) updates and discussion
10:30	Parker Kraus	Sub-grid scale/wetlands
11:30		<i>Lunch on your own</i>
1:00	Zhiming Kuang	Some thoughts on tropical transients
2:00	Breakout - Team Leads	Breakout Session #1 [Dynamical Frameworks and Education/Diversity]
3:00		<i>Break</i>
3:15		Breakout Session #1 Continues
4:15	John Calderazzo	Climate Sense Magazine
4:45	John Helly	Ethics session - publishing legacy data
		<i>Break before Dinner</i>
6:00		Team Dinner - Dave and Mary Kay Randall's Home





- Implementations of MMF into NWP models
- Marat installed MMF into GFS/CFS at IITM.
- Marat is in the process of installing MMF into IFS at ECMWF.



# A CPT for Improving Turbulence and Cloud Processes in the NCEP Global Models

Steven K. Krueger (U. of Utah)

Shrinivas Moorth (EMC/NCEP)

Robert Pincus (U. of Colorado)

David A. Randall (CSU)

Peter A. Bogenschutz (NCAR)

Fanglin Yang (EMC/NCEP)

# Knowledge Transfer

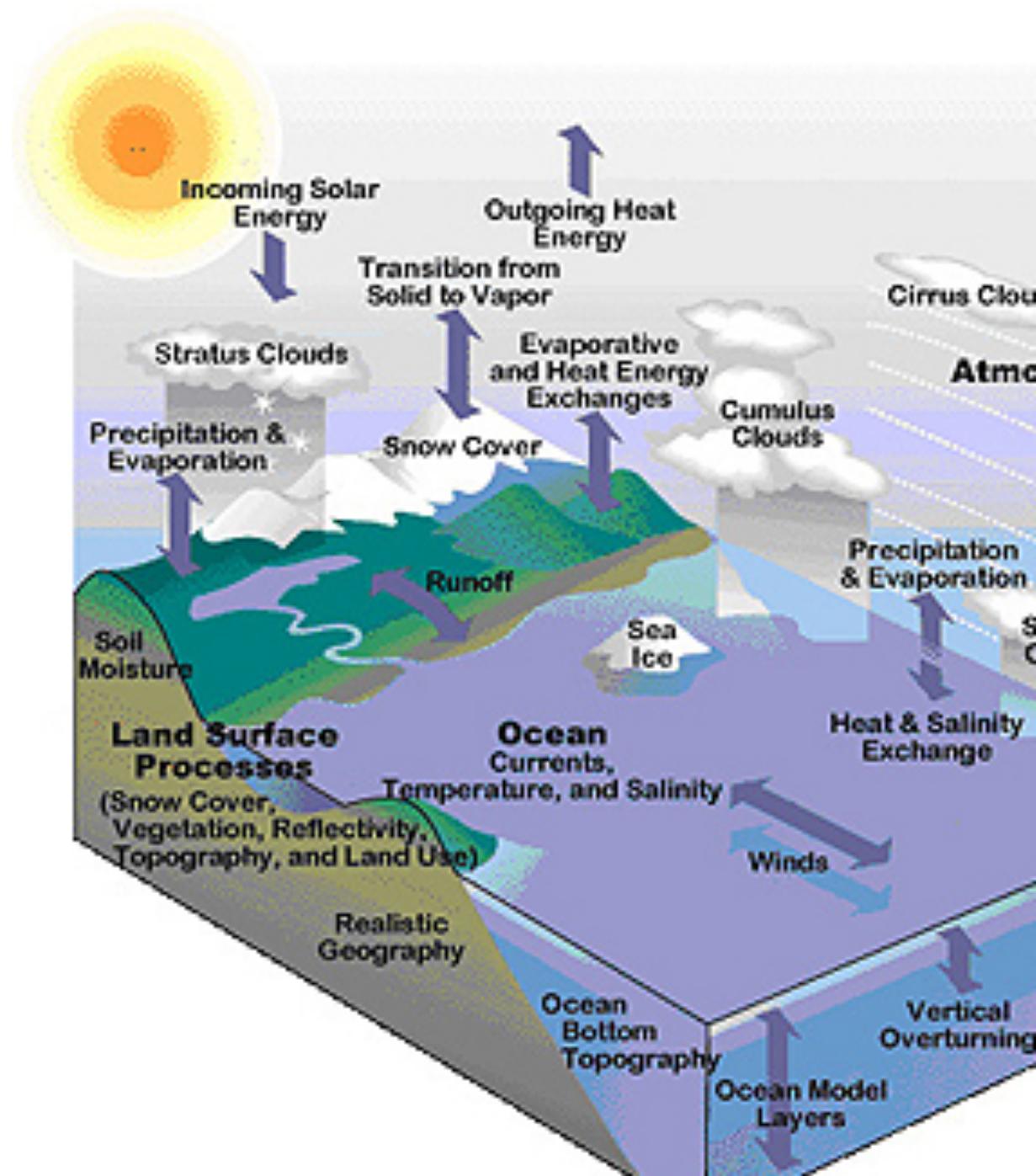
The role of the academic scientists in the proposed project is to convey parameterizations — distillations of scientific understanding — to the EMC, and to guide their implementation into the NCEP global models.

The role of the EMC in the proposed project is to facilitate the transfer of advanced knowledge gained through the academic research into NCEP operations.



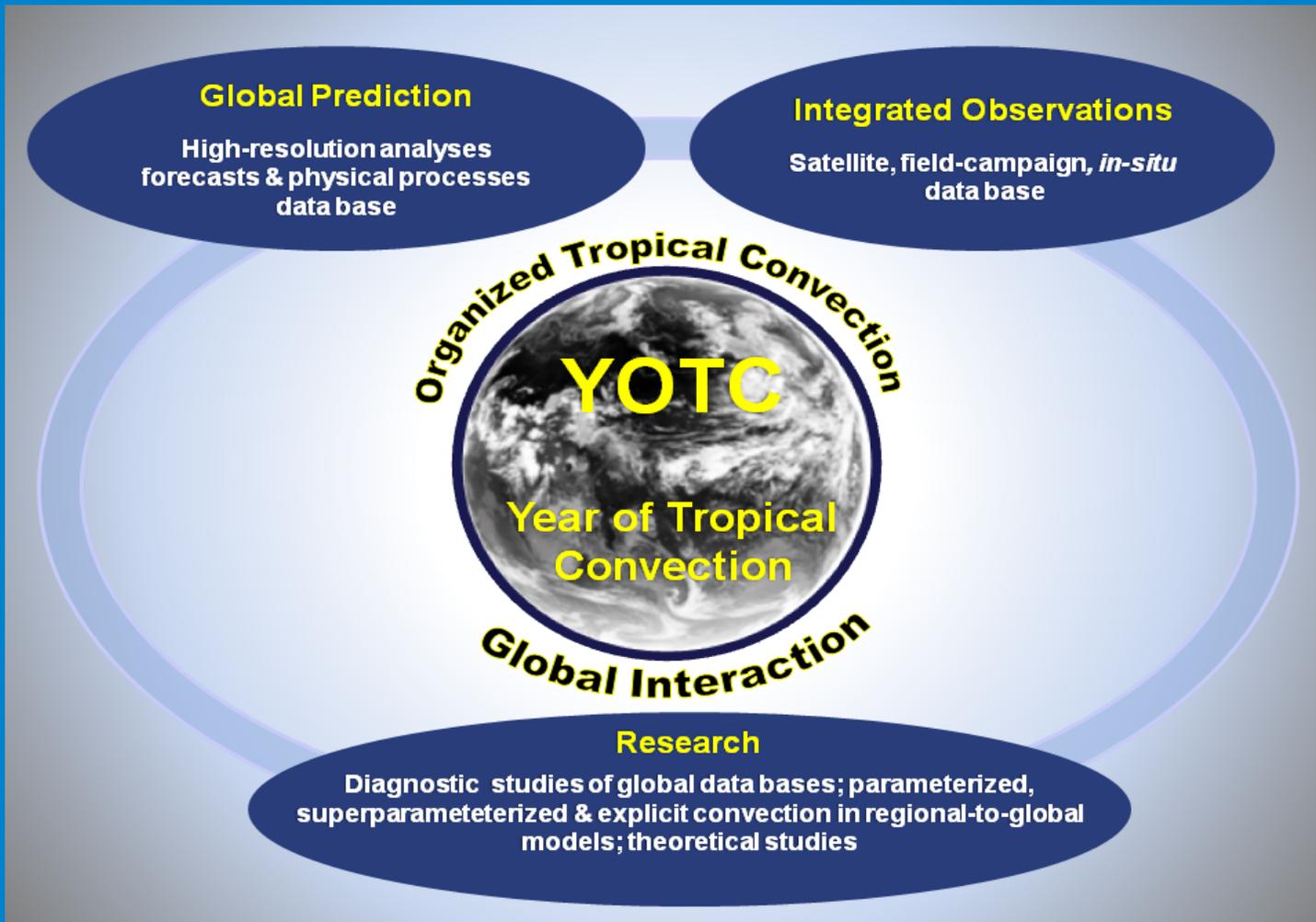
# Proposal Summary

... successfully  
... posed a CPT to  
... fy the representation  
... turbulence and SGS  
... ud processes and to  
... fy the representation  
... SGS deep convective  
... ipitation and grid-  
... le precipitation as  
... horizontal  
... olution decreases.



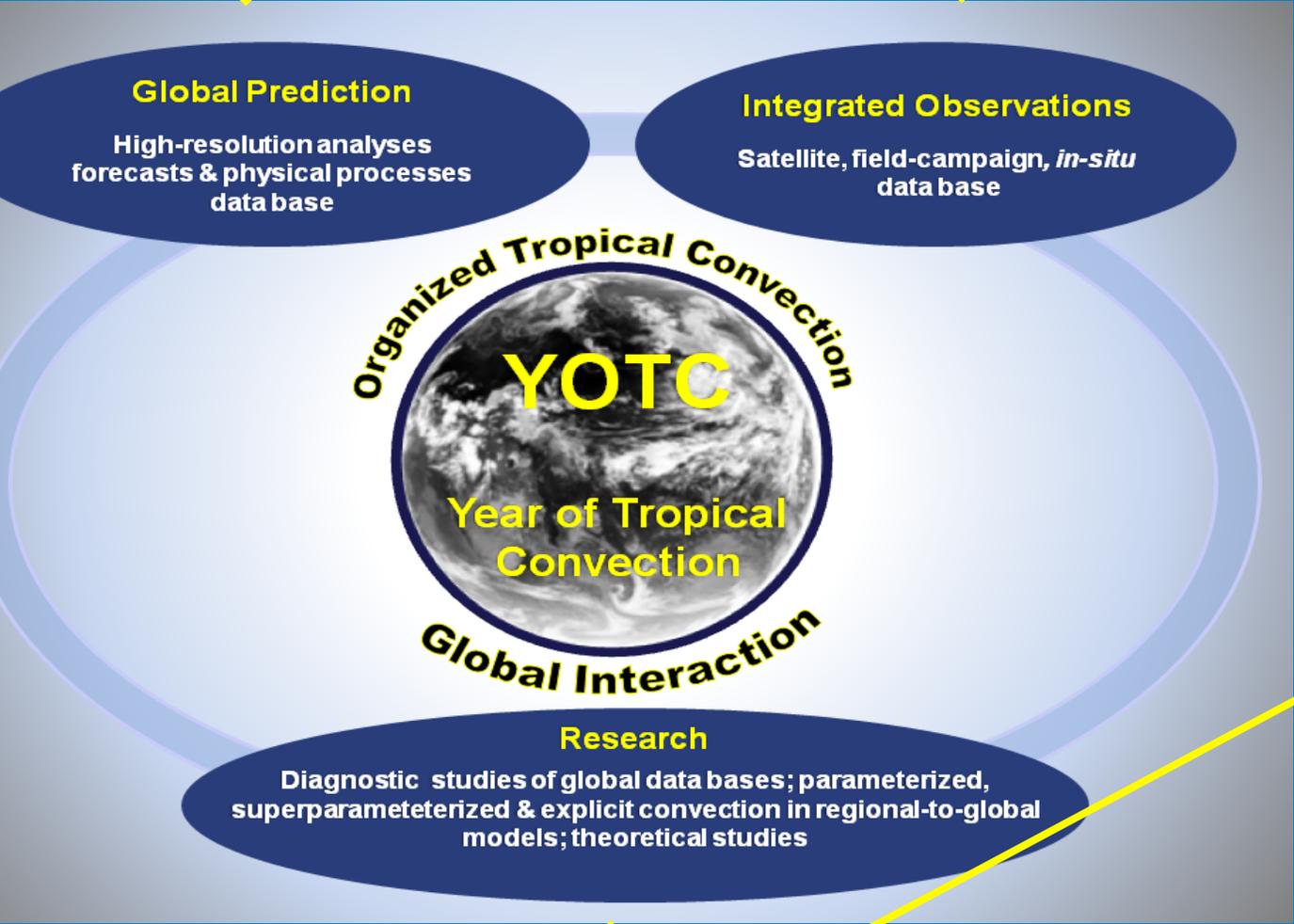
# A Virtual Global Field Campaign

Mitch Moncrieff (NCAR) & Duane Waliser (JPL)  
Co-Chairs



YOTC ECMWF  
Global Field Campaign (May 2008-April 2010):  
Global Analysis, 10-Day Forecasts,  
Subgrid Tendencies 25-km/16km  
Mesh

YOTC Giovanni Satellite Data  
Analysis & Dissemination  
Resource  
YOTC A-train Database



- MJO & Convectively-coupled waves
- Easterly Waves & Tropical cyclones
- Monsoon Intraseasonal Variability
- Tropical-Extratropical Interaction
- Diurnal cycle

Physical & Dynamical Processes  
at the Weather-Climate Intersection

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**. Climatological –**  
**20-year global**  
**simulations coupled**  
**or atmosphere only**

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