Quantification of Uncertainty in Cloud Retrievals (QUICR)  
breakout session  

Agenda  
Thursday, 13 March 2014 (Room #3)  
10:30 – 12:00  

1. Breakout goal and FG related issues (S. Xie – 5 minutes)  
2. BBHRP update (L. Riihimaki – 10 minutes)  
3. PSUADE in MICROBASE (Q. Tang – 15 minutes)  
4. Uncertainty in forward model calculation (G. Mace – 20 minutes)  
5. Discussion (Mace/Protat/Xie, 40 minutes)  

1) Ideas on a major field campaign proposal to build a statistically comprehensive library of mass- and area-dimensional relationships in atmospheric ice clouds (any other properties that are important and normally assumed in retrievals)  

- *Which instrumentation is mandatory?*  
- *Which PIs want to invest time in this?*  
- *Sharing with EU is an option (perhaps a necessity)?*  
- *Which cloud target do we want to start with and in which geographical location?*  
- *What strategy do we want to adopt?*  
- *How should we pursue collaboration with the European cloud retrieval community and ASR modeling community?*  

2) Ideas on DOE-EU collaborations  

- *Use synthetic datasets to evaluate retrieval algorithms*  
- *Build a set of real-atmosphere datasets for algorithm development and evaluation (i.e. ARM/EU COPS)*  
- *Create common guidelines for calibrating and characterizing uncertainty in ground-based instruments*  
- *DOE/ARM Data Portal (http://useu.ornl.gov/cap/) to share data, codes, forward models etc.*  
- *Characterize uncertainty of forward models*  
- *Develop common optimal estimation framework*