

Our Interests @ PURDUE UNIVERSITY

*Sonia Lasher-Trapp, Colleen Henry (PhD),
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- **Warm Rain Initiation:**
 - Giant/ultragiants aerosol particles
 - Entrainment and mixing

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■ Observations:

- Radar study, and aircraft data study-- contrast precipitating vs non-precipitating trade wind cu
- Role of giant aerosol, sounding characteristics
- "Generalize" radar echo evolution and aircraft data (precip) for each case

- Promising cases: 9, 10 and 20 Dec, 7 and 19 Jan

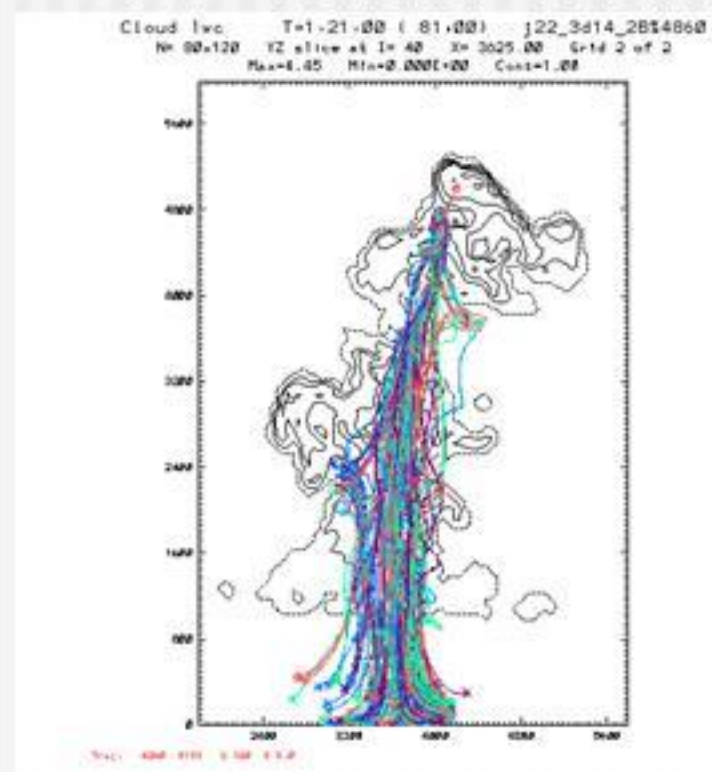


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■ Modeling:

- Extend calculations along trajectories to include coalescence
- Investigate influence of cloud initiation in model upon trajectories and cloud evolution
- Test hypotheses using LES and trajectories by comparing results to "generalized" radar echo and aircraft obs



FSSP avg conc for low and mid-level aerosol circles

