

# topics of scientific study – 1/2

1. **aircraft static pressure corrections vs dGPS** (*Schanot, Romashkin, Jensen, Beaton, Rodi*)
2. **cold pools** (*Jensen, Peter*)
3. **cloud entrainment/detrainment** (*Jensen, Campos, Thornton, Heikes, O'Sullivan, Barth, Stith*)
  - *conserved & reactive tracers*
4. **coalescence model** (*Jensen*)
5. **sea salt particle formation** (*Jensen, Colon, Rogers, Anderson, ++*)
6. **age of cloudy air** (*Jensen, Campos, Thornton, Heikes, O'Sullivan, Barth*)
7. **GCM parameterizations** (*Jensen, Mahowald*)
  - *sea salt production & transport*
  - *effects on clouds*
8. **complete particle size distributions** (*Rogers, Twohy, Jensen, Baker, Chuang, Small, Stith, Gerber, Anderson, ++*)
  - *nanometer to millimeter*
  - *combine data from different instruments*

## topics of scientific study – 2/2

9. **splash artifacts & cloud probes** (*Rogers, Goyea, Baker, Field, Twohy, ++*)
  - *PMS probes*
  - *air sample inlets*
10. **aerosol processing by clouds** (*Jensen, Rogers, Peter, Thornton, Heikes, O'Sullivan, Barth, ++*)
  - *changes in size/conc due to cloud processing*
  - *aerosol in the near-environment of clouds*
11. **effects of islands** (*Jensen, Campos, Rogers, Stith, ++*)
  - *island cloud tails*
  - *surf & GN production; island aerosols*
12. **performance of air sample inlets** (*Rogers, Twohy, Campos, ++*)
13. **comparison of airborne and surface measurements of aerosols** (++)
14. **comparing performance of particle probes** (++)
15. **new particle formation** (*Rogers, Twohy, ++*)
  - *effects of gases or short-wavelength radiation*
  - *compare UF and CN; modes at small sizes on RDMA*

RICO, Flight #rf05  
12/13/2004, 15:10:00-15:20:00

