

# *Summary of Session 5's Scientific and Technical Issues*

- Measurement of precipitation at surface
- relatively mature understanding of defects in current surface measurements of frozen precipitation at high latitudes;
- new ground sensors promising
- quality of validation and correction/calibration data – error estimation;
- better coordination, funding, and programmatic models by space agencies for engaging high-quality, experimental ground-based snow measurement groups and modeling groups
- better methods to measure and/or model blowing snow;
- more research on meteorological-driven approach to assessing relevance and importance of snowfall rates and snowfall events

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- Passive Remote Sensing of Snowfall
  - Snow over land difficult
  - Qualitative for occurrence credible
  - Phase/amounts require theoretical advances or use of ancillary data (e.g. radar)
  - Surface emissivity
  - Assimilation as a tool