

WG lead: C Miller

# Airborne Science Takeaways from ASTM2



# Revised White Paper Structure

- Executive Summary
- Introduction
- Foundational Measurement Strategy
  - Multi-Freq Radar (UAVSAR, AirMOSS/G-III)
  - LIDAR/Hyperspectral (LVIS, AV-NG, HyTES, PRISM/ER-2)
  - Alaska Transects – mature, well defined & justified
  - **Canadian Transects – Need significant work**
- Case Studies
- Satellite Data Considerations
- **Integrating Partners into ABoVE Airborne Activities**

# Identified Gaps

- Snow
- Albedo/Energy Balance
- Water Balance
- US Partner RS, site priorities
- Canadian RS, site priorities
- More detailed discussion of **scaling issues** and needs for RS data that cover a range spatial and temporal scales and biogeophysical gradients
- Driving questions → Measurement & Sampling Requirements → Airborne Planning
- Modeling/Modelers – Is this the data they want/need to improve LSMs for ABR ecosystems & dynamics
- Identify nexus locations where large transects intersect as foci for concentrated, multi-scale research, eg Fairbanks = intersection of AK boreal Interior E-W transect and Dalton Highway N-S transect – SCALING ISSUE

# ABOVE Airborne Campaign Design

- **THANK YOU** – Working Groups have provided excellent inputs during the ASTM
- These will form the new basis for a document
- Team review and feedback are critical
- Time frame is immediate
- Send materials to [Charles.E.Miller@jpl.nasa.gov](mailto:Charles.E.Miller@jpl.nasa.gov)
- Writers & written contributions eagerly accepted