The Arctic-Boreal Vulnerability Experiment (ABoVE) 2017 Airborne Campaign

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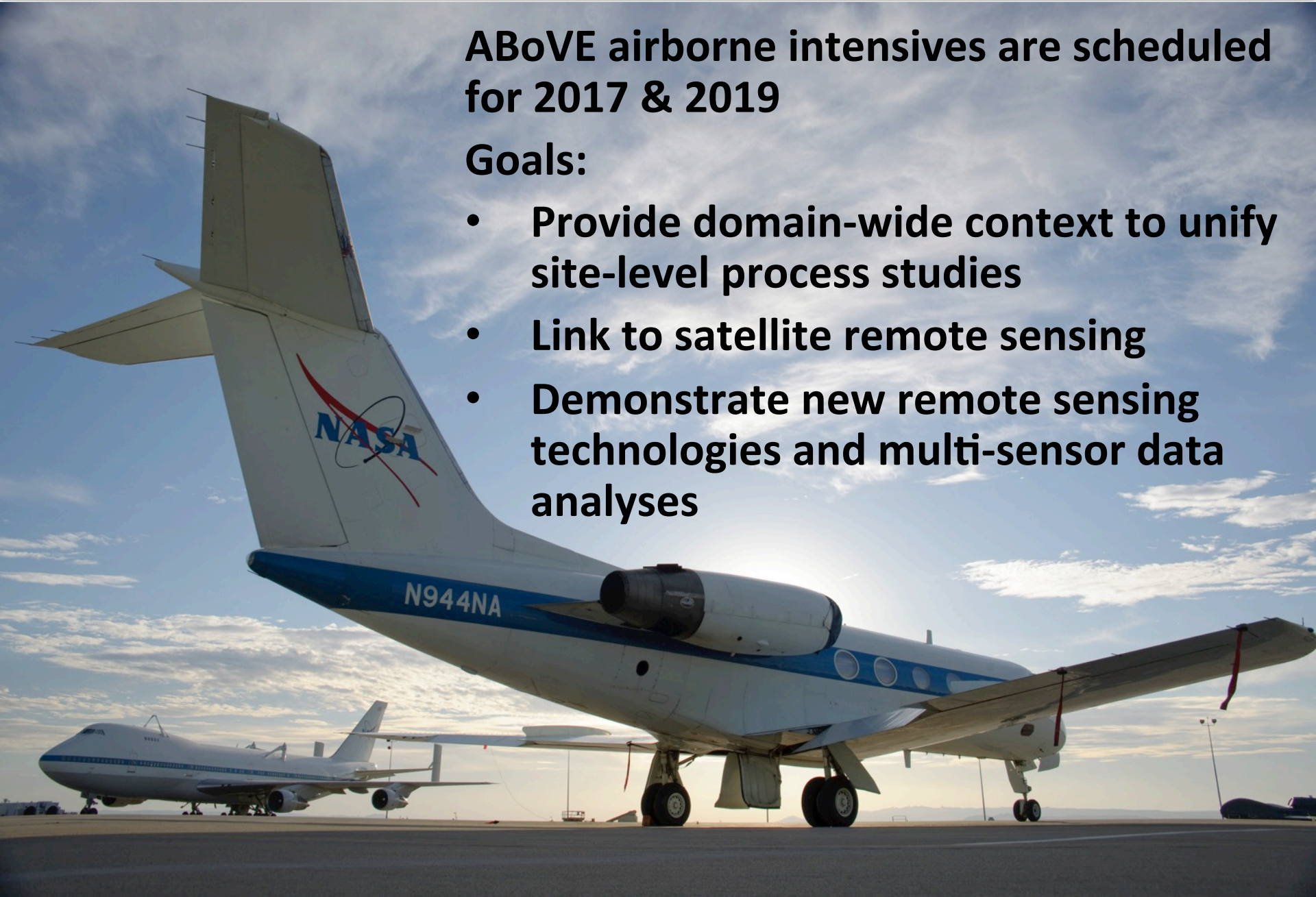
ARCTIC BOREAL VULNERABILITY EXPERIMENT

ABoVE Airborne Intensives



ABoVE airborne intensives are scheduled for 2017 & 2019

Goals:

- **Provide domain-wide context to unify site-level process studies**
- **Link to satellite remote sensing**
- **Demonstrate new remote sensing technologies and multi-sensor data analyses**

Objectives

- **Develop the detailed flight lines and schedules for the 2017 AAC**
- **Deliver actionable plan to the aircraft/sensor teams at the end of the Boulder ASTM (January 2017)**

2017 ABoVE Airborne Campaign Timeline

Foundational Flights

Jan 2017 ASTM 3/Deliver actionable 2017 AAC science plan

Jun 2017 Campaign 1A – Spring ALT (UAVSAR, AirMOSS)

Jul 2017 Campaign 1B – Mid-summer Veg Peak (LVIS, AVIRIS)

Aug 2017 Campaign 1C – Late Summer ALT (UAVSAR, AirMOSS)

PI-led Flights

Apr – Oct 2017 Carbon Flux Campaigns (Sweeney)

Jun – Sep 2017 CFIS Chlorophyll Fluorescence campaigns (Drewry)

Jun, Aug 2017 AirSWOT campaigns (Smith)

Oct 2017 Early Cold Season ALT (UAVSAR, AirMOSS) (Moghaddam)

Process

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- Develop the detailed flight lines and schedules for the 2017 AAC through interactive use of GIS tools and ABoVE Science priorities
- Capture all project/sensor interdependences
- Refine plan to meet resource constraints

Planning Priorities

1. 2017 AAC Projects
2. Phase 1 Projects
3. NISAR SDT Algorithm, cal/val needs
4. Acquisitions of Opportunity & Future Needs

Foundational Instruments & Constraints

1. UAVSAR/G-III
2. AirMOSS/C-20
3. LVIS/B-200
4. AVIRIS/B-200

Constraints:

30 flight hours per plane per campaign

QUESTIONS?