

Sandia National Laboratories

Through Sandia,
DOE/ARM* is putting in place a
UAS/UAV hosting capability on**
the North Slope of Alaska

* DOE/ARM = Dept of Energy/Atmospheric Radiation Measurement (program)

**UAV: traditional usage – Unmanned Aero Vehicle;

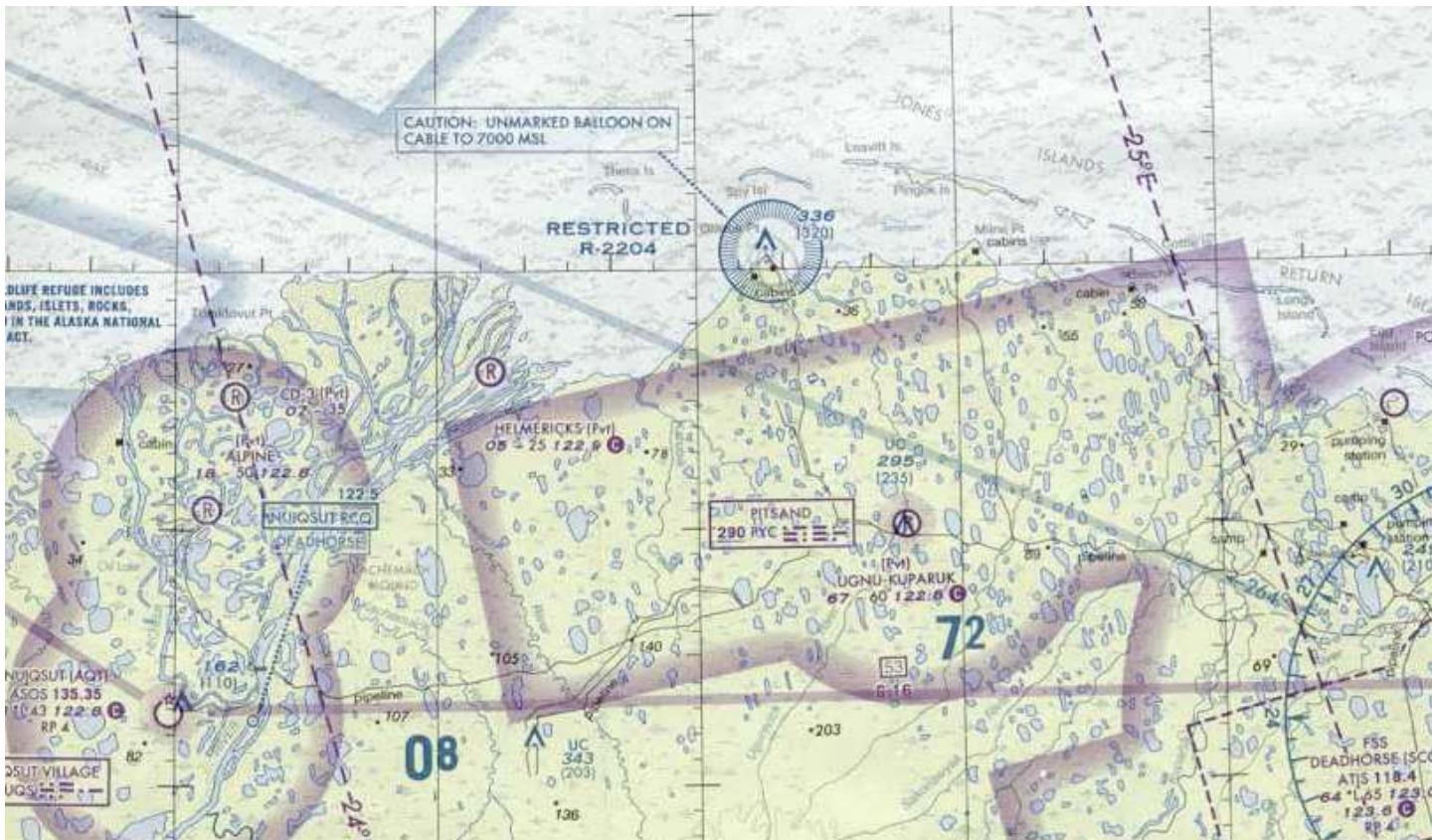
UAS: FAA preferred – Unmanned Aircraft Systems



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**ARM Climate Research Facilities (ACRF) already exist at Barrow and Atqasuk;
DOE/ARM restricted airspace exists at Oliktok Point;
only restricted airspace on the North Slope of Alaska**

ACRF UAS Basing Capability: Restricted Airspace R2204 along with Permit to Use the USAF Oliktok Point Radar Station Facilities under R2204





Oliktok Point USAF Long Range Radar Station



0' 1000' 2000' 3000' 4000' 5000' 6000' 7000' 8000'
Appx. Scale



ACRF UAS/UAV Capability Status:

FAA Issues Resolved

**DOE Aviation Safety Review Document for First
Proposed UAS Use of Oliktok Effectively Complete**

Anticipate First Use within the Next Few Months

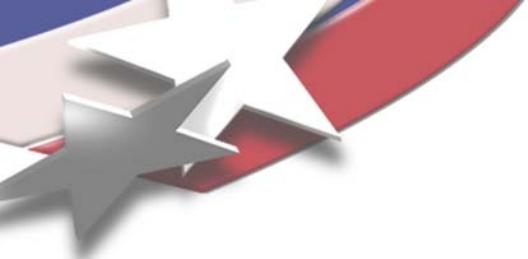


First Proposed UAS Tests at Oliktok

University of Alaska Fairbanks:

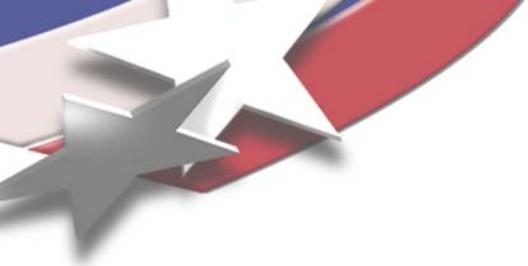


**In Situ A 20 (Boeing Scan Eagle); 45,000 flight hours, mostly in Iraq;
20+ hour flight duration**



Long Range Plan

- Segment R2204 (0-1500', 1500-7000'); effective 7/31/08
- Request Additional Contiguous Restricted Airspace Offshore
 - Transit Corridor to International Waters
 - Surface to 18,000' at End of Transit Corridor to Give Access to Class A Airspace Above 18,000' Under FAA Radar Control
- Would Permit Unescorted UAS/UAV Flight Anywhere Above 18,000' From Oliktok with an FAA Certificate of Authorization (in particular, anywhere over the Arctic Ocean)
- Oliktok is Viewed as a Template for UAS Operations in Other DOE Restricted Airspace



**For further Information on the use of
ARM Climate Research Facilities* Including Oliktok,
Contact Bernie Zak (BDZak@sandia.gov)**

***Taken together, these facilities have been designated a
national user facility, open to all potential users on a
mini-proposal basis**