Arctic Research at the Geophysical Institute



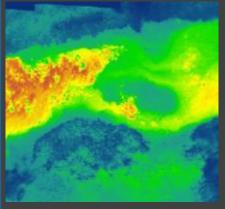






RESEARCH CONCENTRATIONS

- Created by Congress in 1946
- Today: ~320
 7 Research Groups,
 9 Major Operational Programs
 &10 Other Facilities
- ~\$50M Annual Activity



Remote Sensing



Seismology



Snow, Ice & Permafrost



Space Physics & Aeronomy



Tectonics & Sedimentation



Volcanology



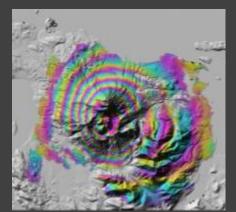
Atmospheric Science





GEOPHYSICAL INSTITUTE

Major Facilities/Operational Programs



Alaska Volcano Observatory



Alaska Earthquake Center



Alaska Satellite Facility



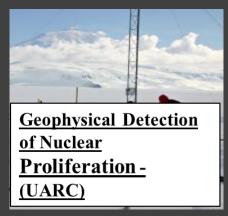
Poker Flat Research Range



Alaska Center for Unmanned Aircraft System Integration



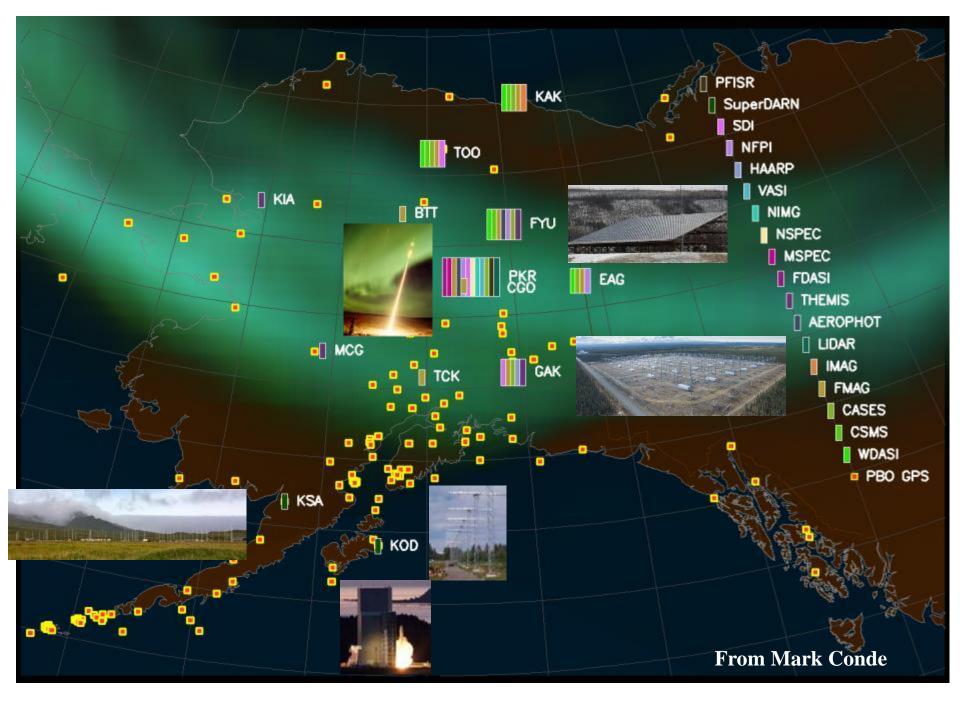
Research Computing Services (former DoD HPCC)



Wilson Alaska Technical Center (Infrasound)

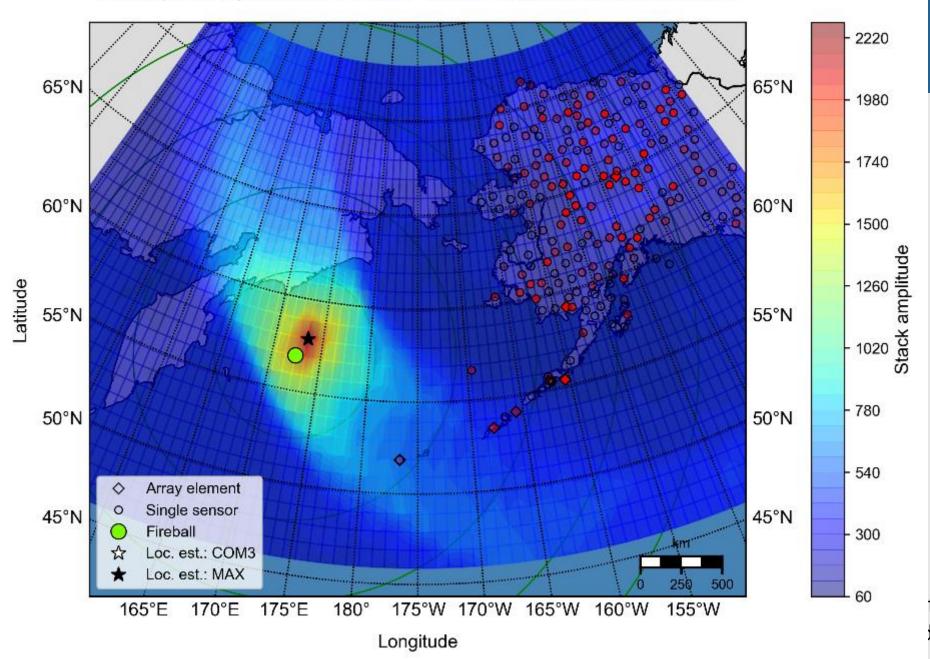


High frequency Active Auroral Research Program

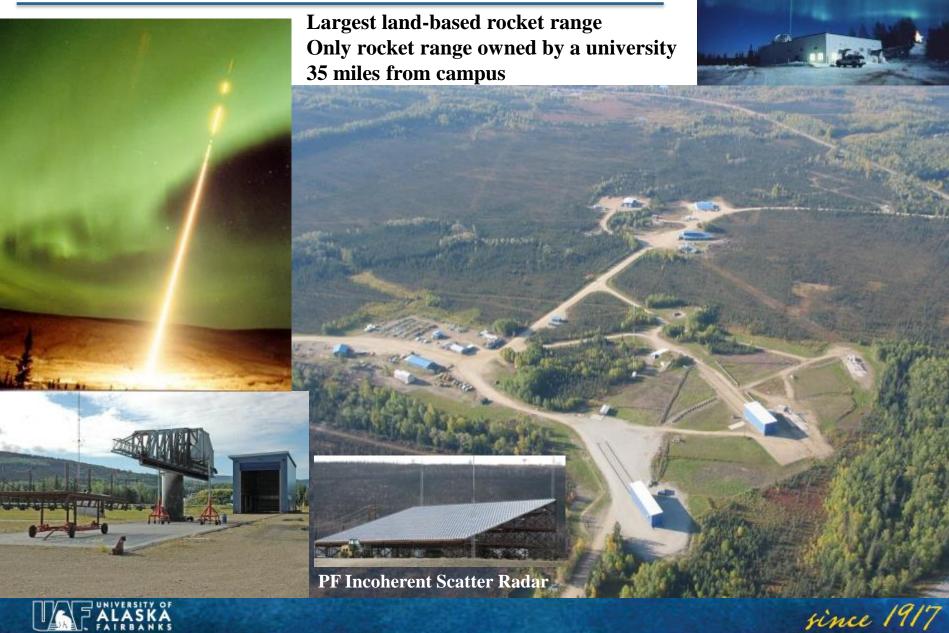


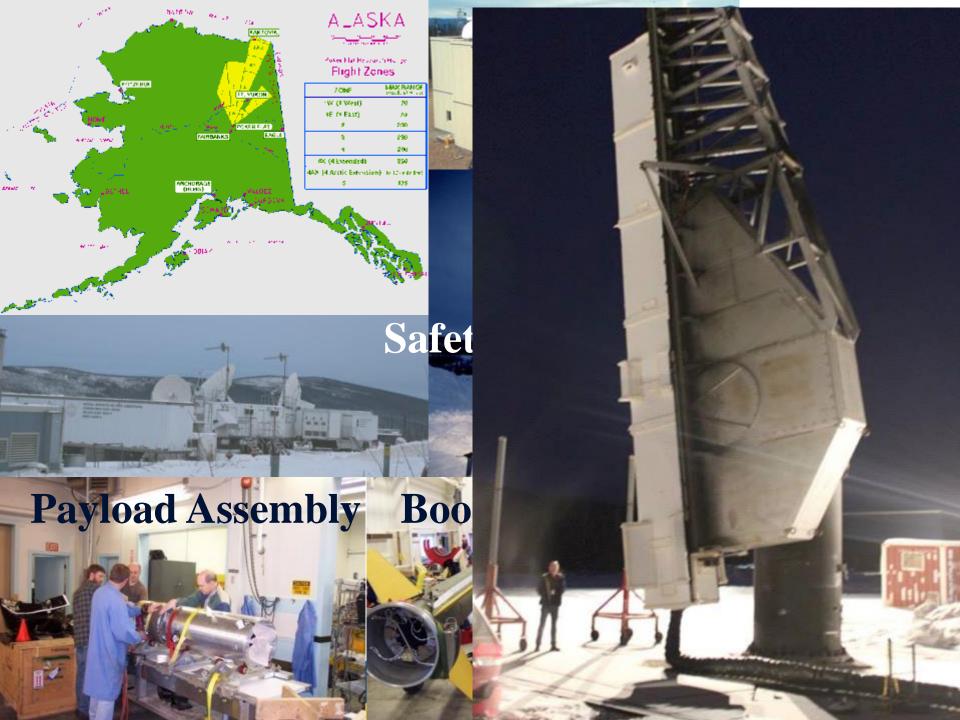


Fireball (12/18/18) located with stacked TA/AVO/AEC/IMS/GSN infrasound data



Poker Flat Research Range



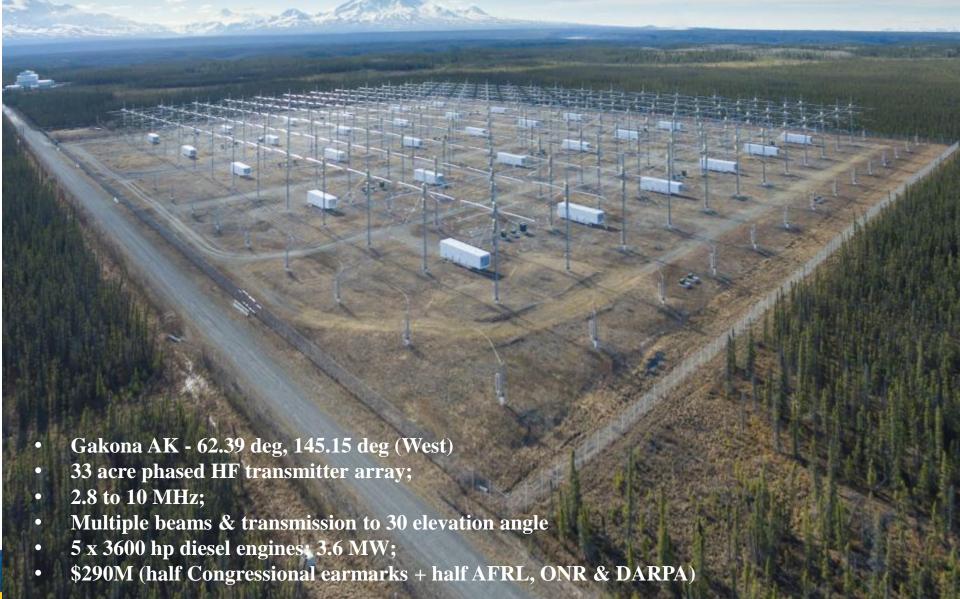


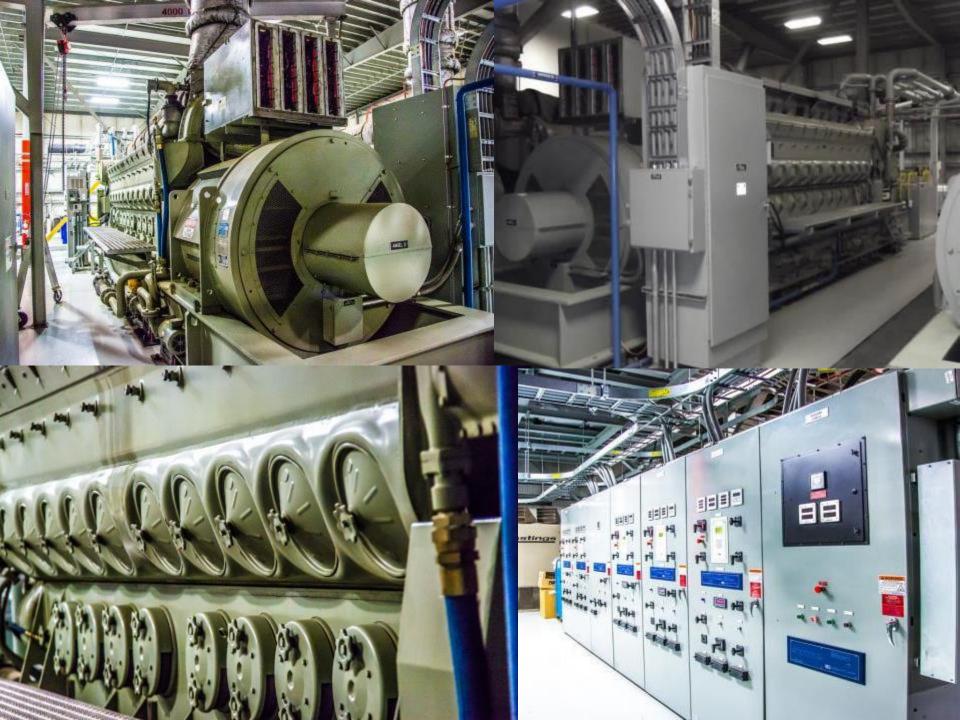
Poker 2015 Campaign MIST & MTeX



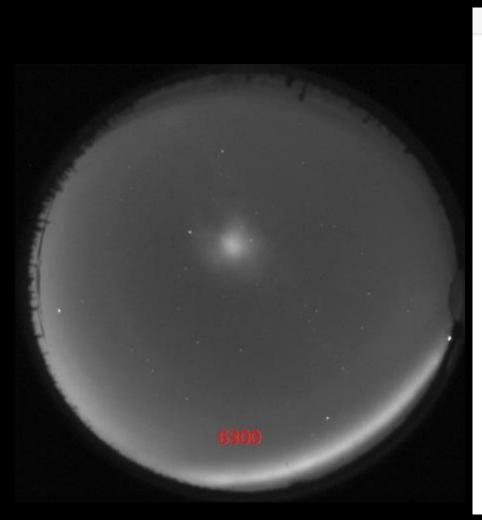
High-frequency Active Aurora Research Program (HAARP) Reaching Out & Touching the Ionosphere





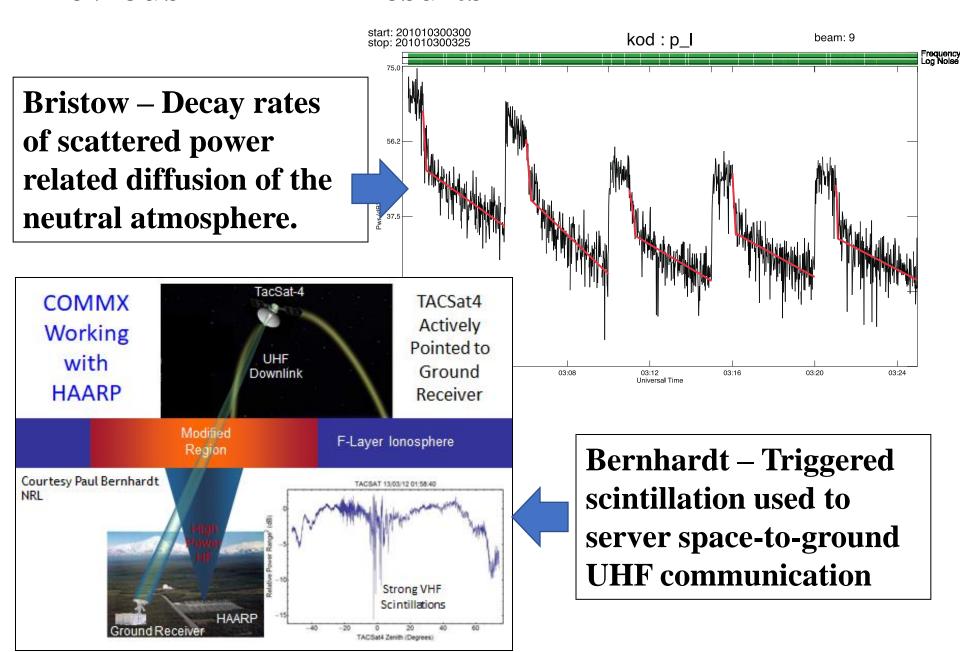


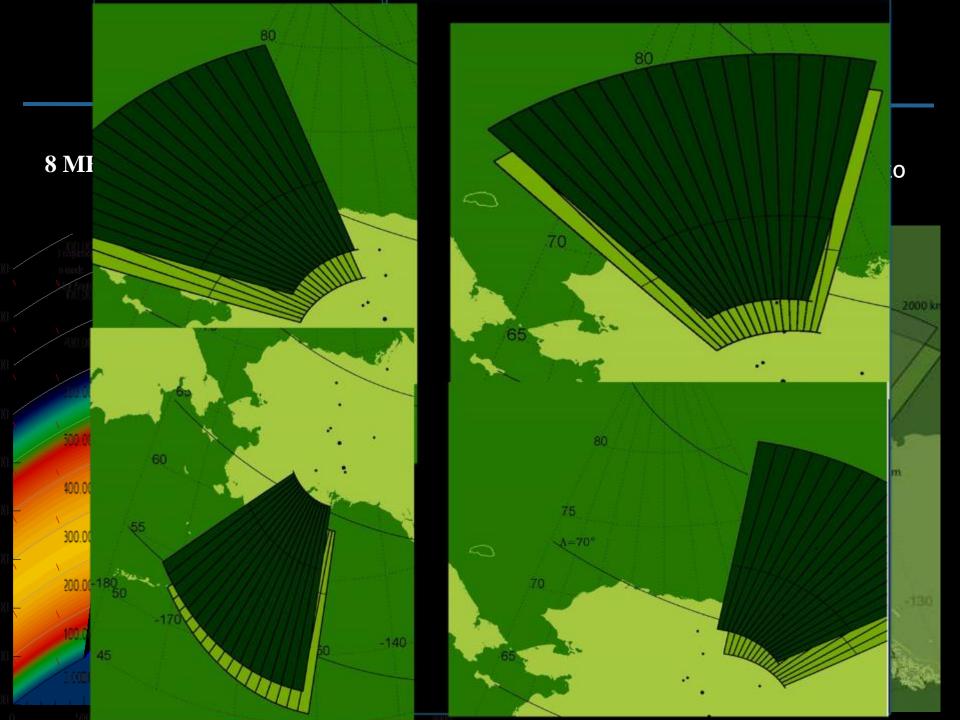
Chris Fallen Experiment: First simultaneous high-power HF radio aurora and SSTV broadcast, Sep 2017





Previous HAARP Results







Woodrow Wilson International Center for Scholars





Future of High Frequency
Active Ionospheric
Research Facilities
in the U.S.
9 Apr 2019





Ronald Reagan Building & International Trade Center



