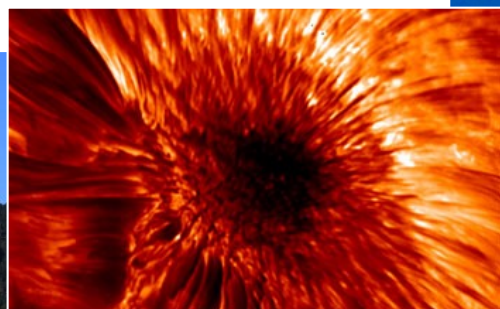
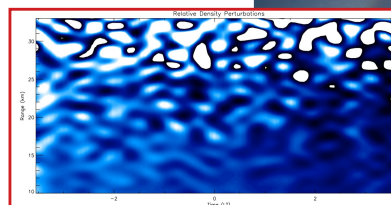
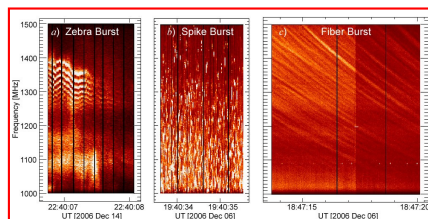
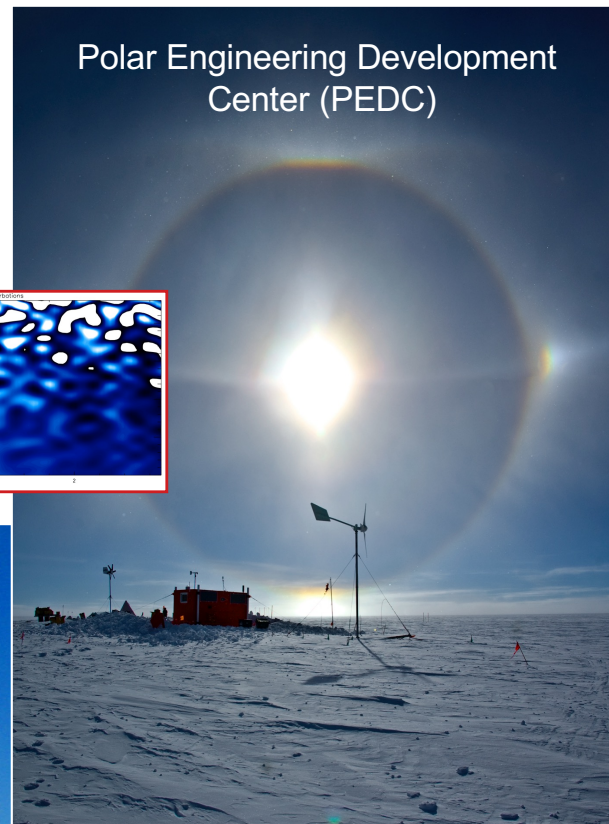
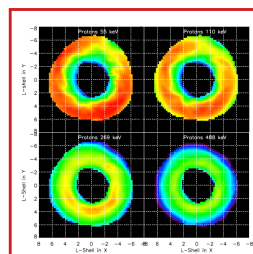
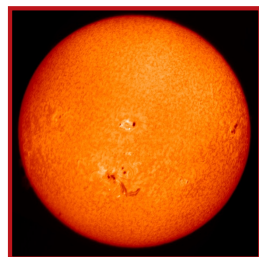


Center for Solar-Terrestrial Research

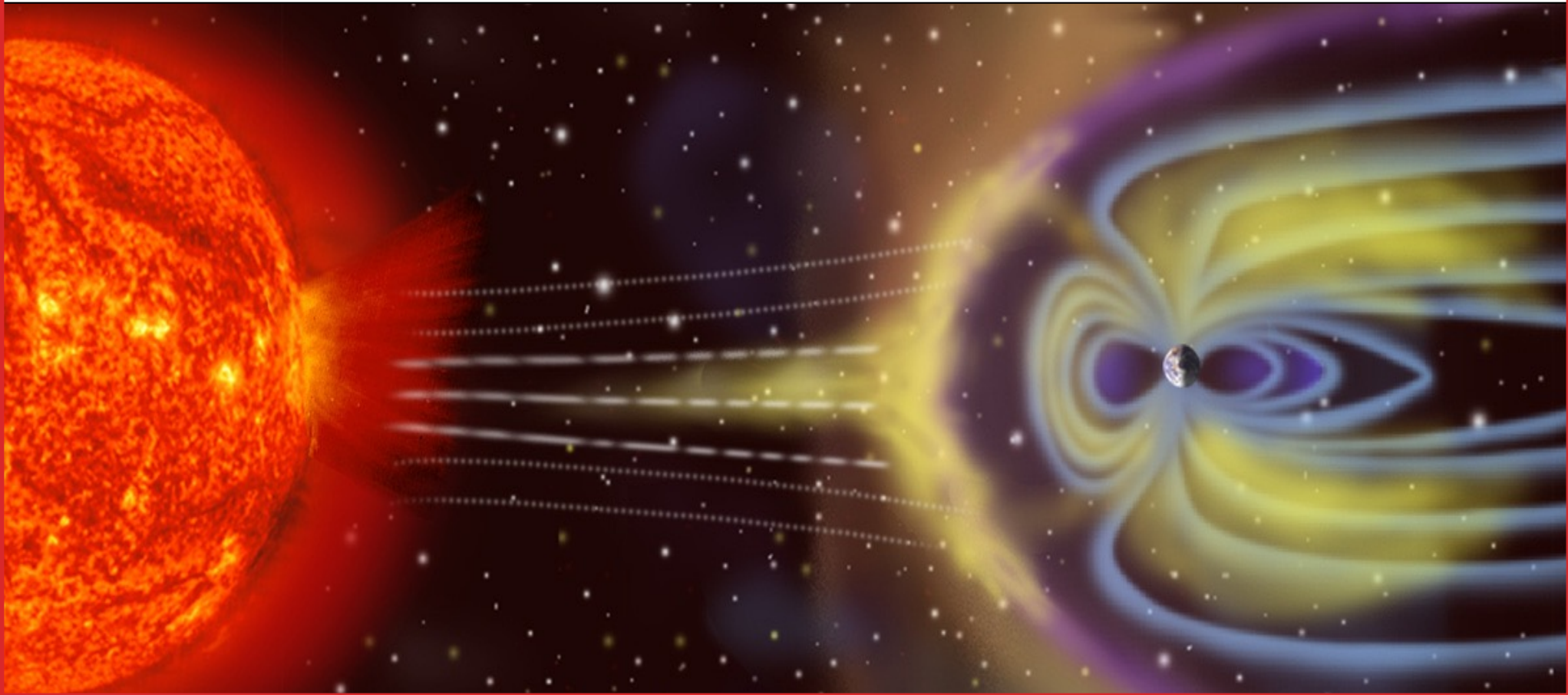


Center for Solar-Terrestrial Research

Solar-Terrestrial
Research

=

Plasma Physics +
Fluid Dynamics +
Remote Sensing/Instrumentation +
Data Reduction and Inversion +
Modeling



Center for Solar-Terrestrial Research

Solar-Terrestrial
Research = Plasma Physics +
Fluid Dynamics +
Remote Sensing/Instrumentation +
Data Reduction and Inversion +
Modeling

EXPERIMENTAL!!!

We operate off-campus facility instruments!

Space Weather

CSTR Persons (~37 FTE, w/o students)

Prof. Andrew Gerrard, Director, gerrard@njit.edu

Prof. Wenda Cao, Director of BBSO-Solar Optical

Dist. Prof. Dale Gary, Director of EOVS-Solar Radio

Dist. Prof. Haimin Wang, Director of SWRL-Solar Data/Optical

Prof. Bin Chen-Solar Radio

Asst. Prof. Satoshi Inoue-Solar Modeling/Optical

Asst. Prof. Hyomin Kim-Terrestrial Magnetosphere

Asst. Prof. Gareth Perry-Terrestrial Ionosphere

Asst. Prof. Lindsay Goodwin-Terrestrial Ionosphere

+ 5 Post-Docs

+ 13 Research Staff

Dist. Res. Prof. Phil Goode-Solar Optical/EarthShine

Dist. Res. Prof. Lou Lanzerotti-Heliosphere

Dist. Res. Prof. Gregory Fleishman-Solar Radio

Dist. Res. Prof. John Meriwether-Aeronomy

Research Professors:

Administration:

Dr. Ilya Kuzichev

Dr. Ju Jing

Dr. Gelu Nita

Dr. Yan Xu

Dr. Sijie Yu

Dr. Vasyl Yurchyshyn

Dr. William Longley

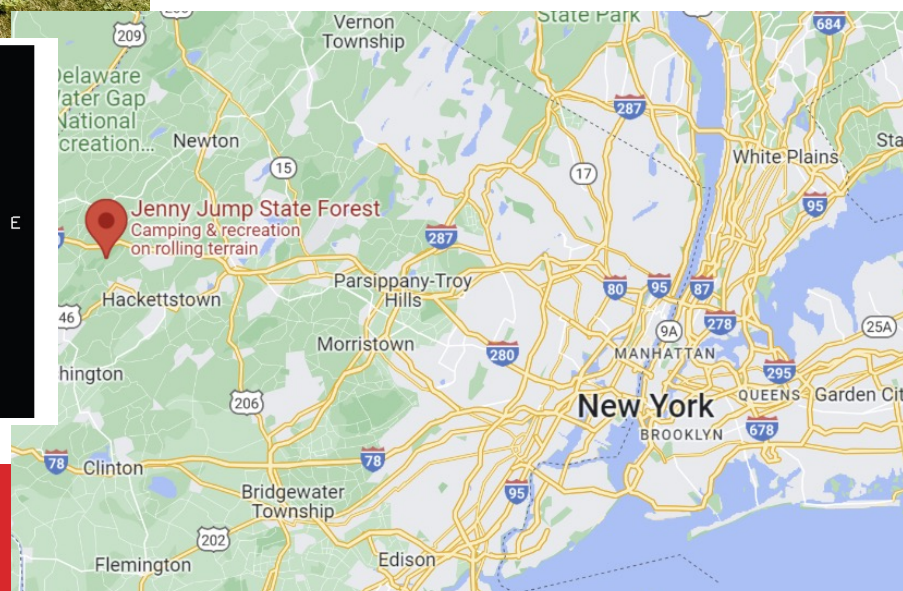
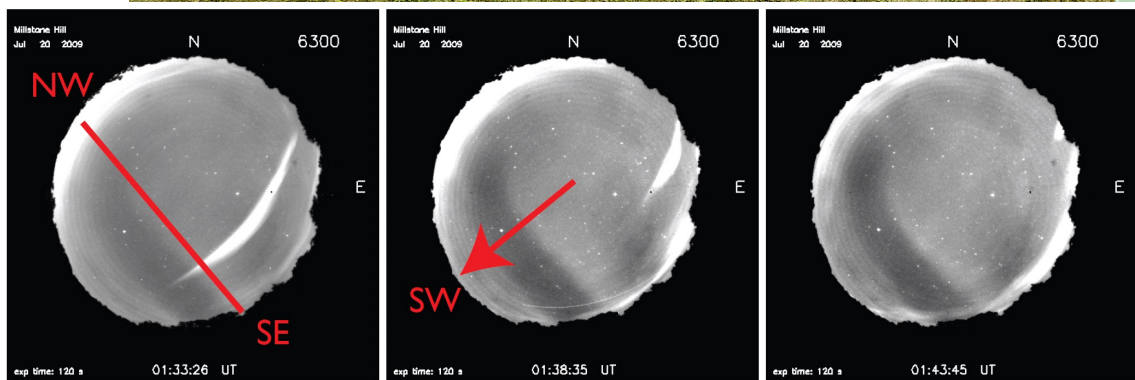
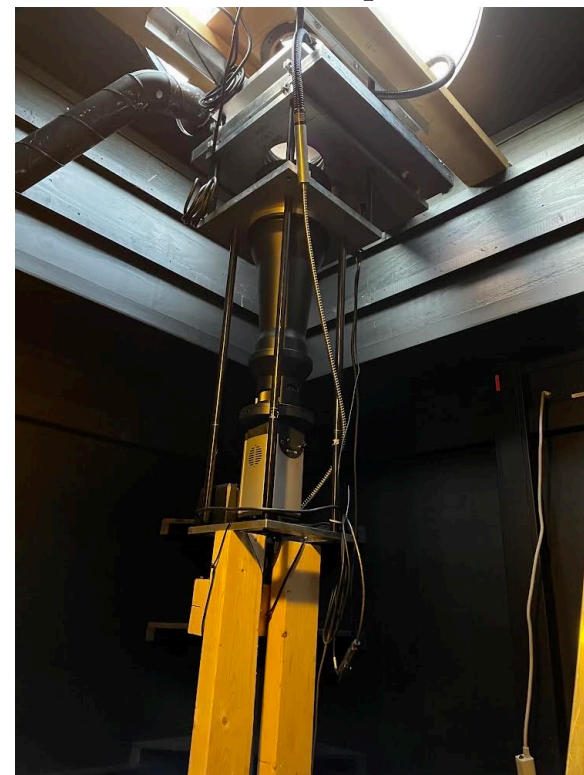
???

Ms. Felicia Margolies- CSTR Program Manager

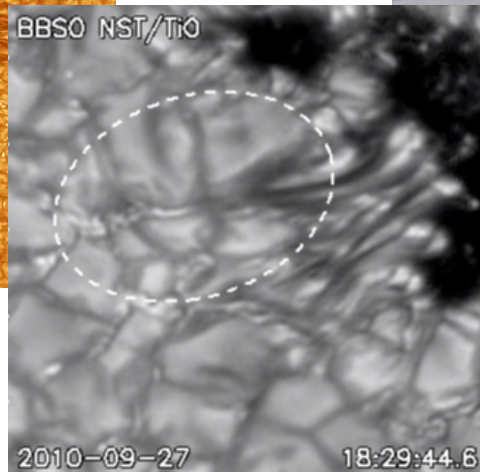
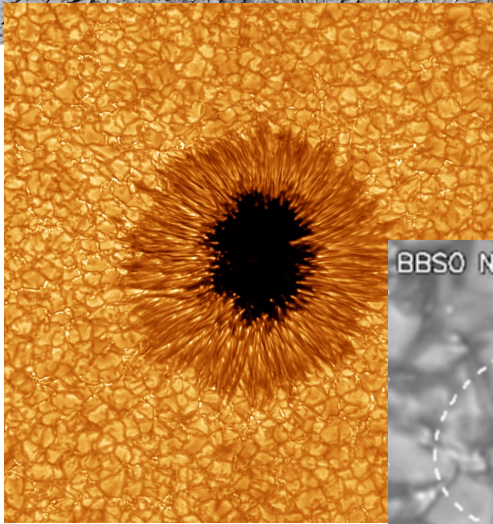
Ms. Cheryl James- CSTR Administrative Coordinator

Ms. Erika Norro- Administrative Assistant-BBSO

Jeffer Observatory, Jenny Jump State Forrest, Hope, NJ (40.92 N, 74.9 W)

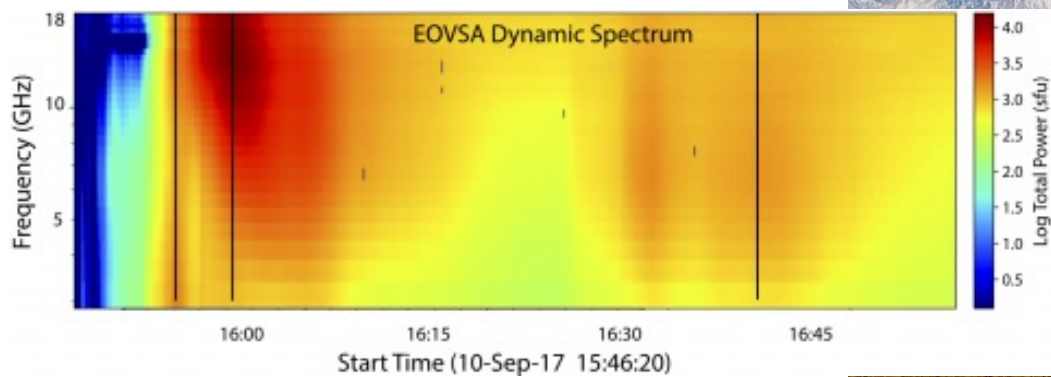
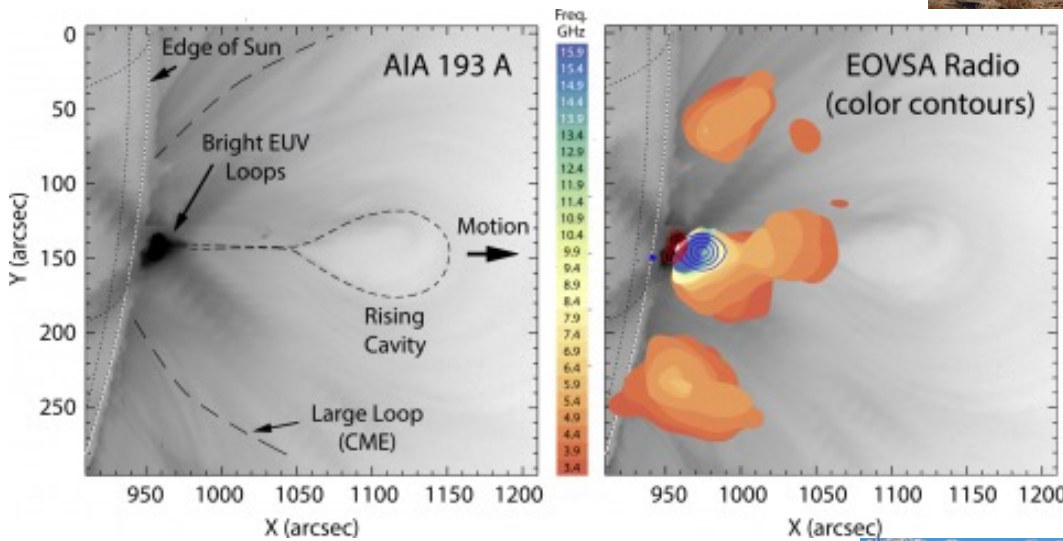


Big Bear Solar Observatory (BBSO), Big Bear, CA

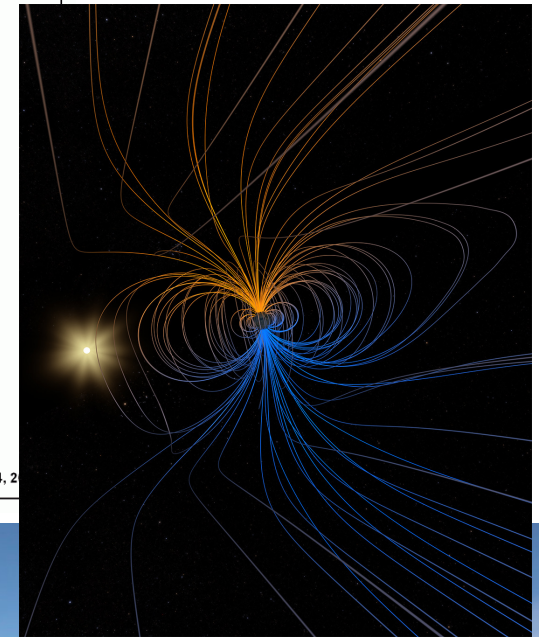
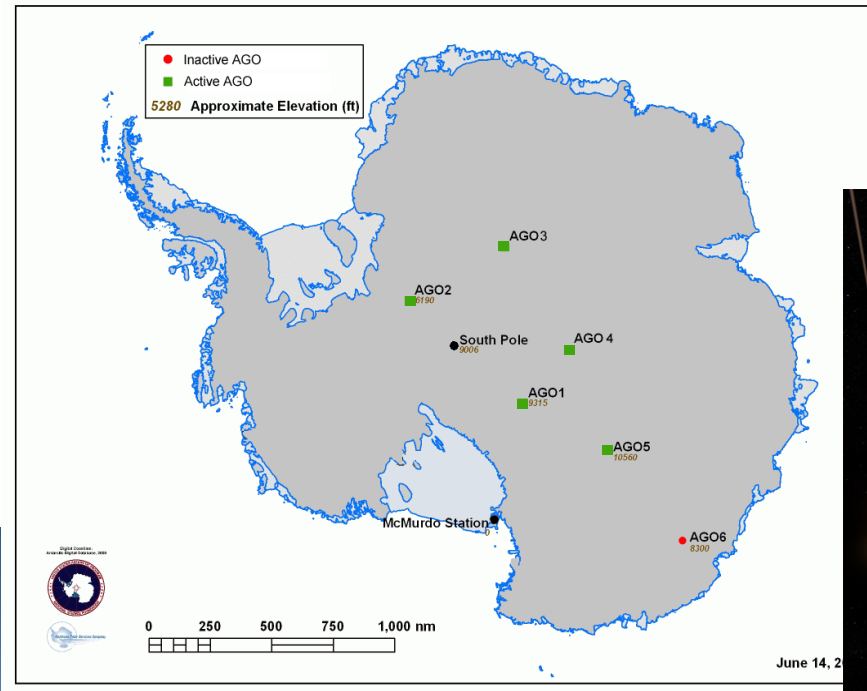


EOVSA

Owens Valley Solar Array



Geospace From Antarctica

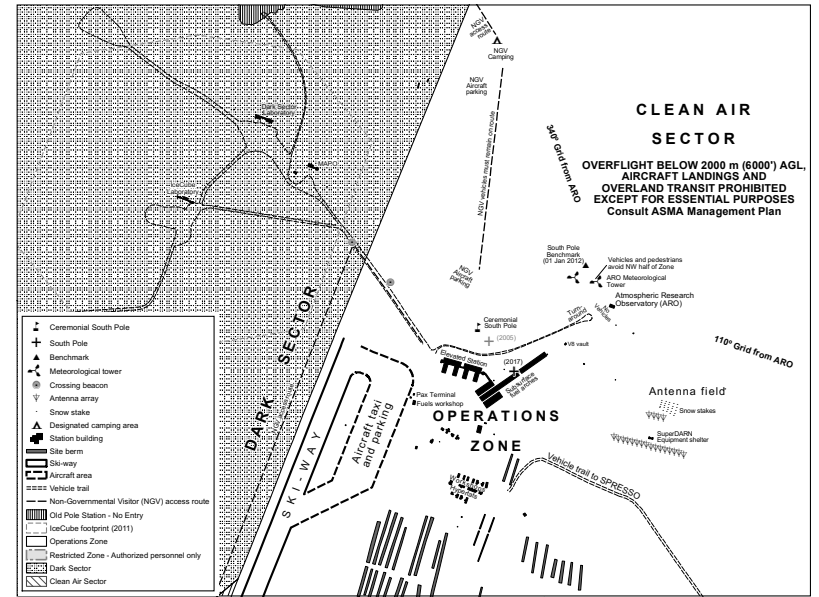


Geospace instrumentation at the 3 US manned stations and across the continent.





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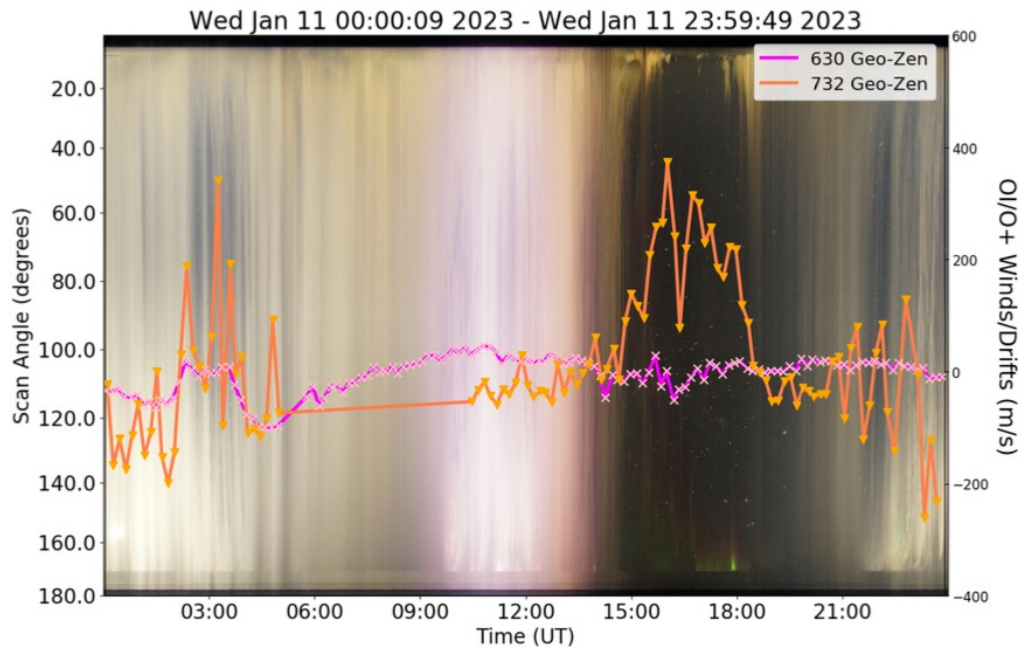


Map 4: ASMA No. 5 - Amundsen-Scott South Pole Station

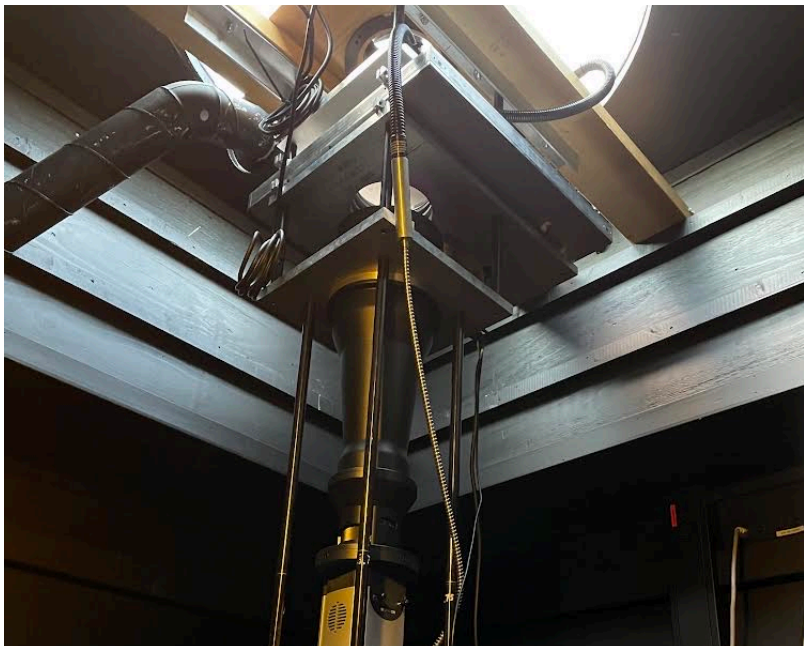
01 Aug 2018 (Map ID: 10089.014.16)
 United States Antarctic Program
 Environmental Research & Assessment

Projection: Polar Stereographic
 Spheroid and horizontal datum: WGS84
 Data source: Infrastructure, AIS CAD Survey (2016/17),
 Zones & Sectors, ERA (Feb 2017)

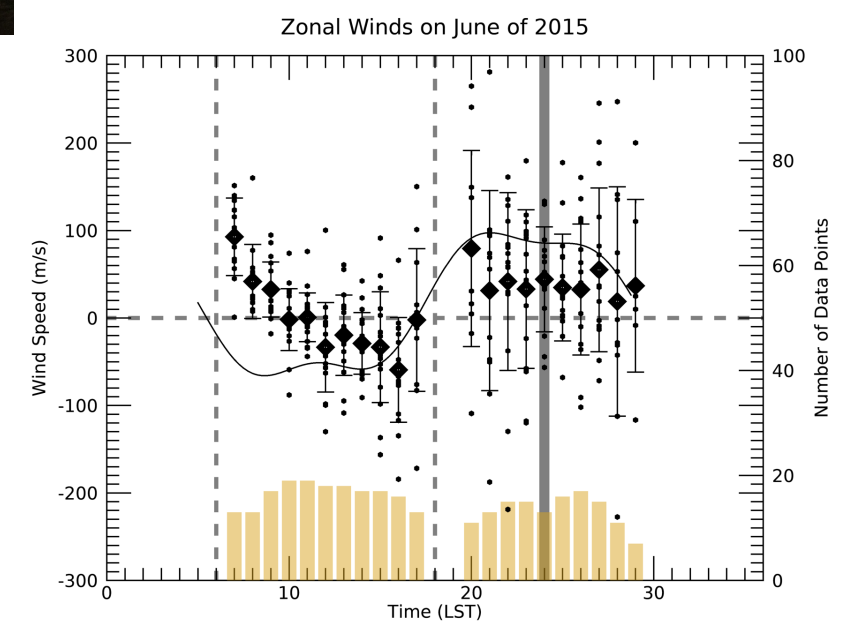




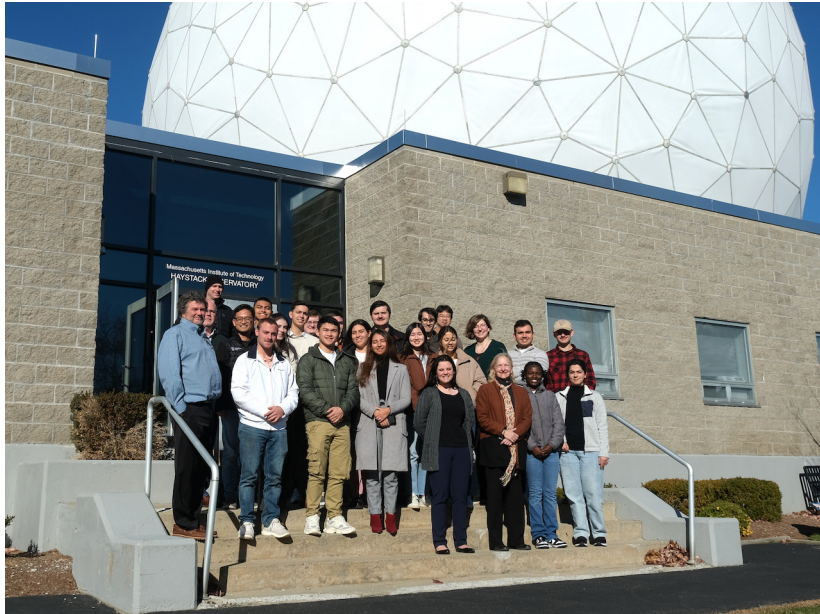
Svalbard, Norway



Across South America



CSTR- Detachment 490 Collaborations



- November 20, 2023 visit to MIT-Haystack Observatory
- Led by Profs. Hyomim Kim, Lindsay Goodwin, and Lt. Col. Carter



Summary of Externally-Funded Efforts

Number of Active Externally-Funded Grants: 70

Expendable dollars from these grants: \$33M

