Site Survey for Large Solar Coronagraph

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July 30, 2020
Mission

- Observe the sun from Earth
- Predict space weather
- Survey sites
Space Weather and the Corona

- Layer of gas and plasma
- Magnetic field
- Advanced notice
Coronagraph

- See corona from Earth
- Atmosphere
- Seeing and sky brightness
AERONET

- Measure sky brightness
- Years of data
- 17 sites: Ahmedabad, Antarctica, Boulder, Casleo, Fowler’s Gap, Jomsom, Kirtland, Lahore, Las Cardes, Learmonth, Mauna Loa, New Delhi, South Pole, Table Mountain, Teide, Thimphu, Tinga
Data Analysis

- Whole year of data
- 4 analyses
Results

- Last analysis most useful
- City sites are no good
- A few very good sites
- Unexpected sites
References

Photos Courtesy of:

AERONET

[1] https://zoom.us/j/91486257411?pwd=RWxNb2hicnBPb0VuS0xjcTR2NHFzUT09
[5], [6] Courtesy, High Altitude Observatory, National Center for Atmospheric Research (NCAR), Boulder, Colorado, USA. NCAR is sponsored by the National Science Foundation.
Thank you

- Steve Tomczyk and Alice Lecinski
- University of Wyoming
- NCAR-WY Internship Program
- HAO
- SIParCS