DTU Civil and Mechanical Engineering
Technical University of Denmark

SolarStations.org

How to find the nearest solar radiation monitoring station?

Ioannis Sifnaios[1], Kevin Anderson[2], Adam R. Jensen[1]
[1] Technical University of Denmark (DTU), [2] Sandia National Laboratories

MOTIVATION

SolarStations.org provides a global catalog of two and three-component solar irradiance monitoring stations. The interactive website allows for seamlessly locating the station nearest to a point of interest and provides information on data availability and instrumentation. Open-source collaborative development on GitHub.

KEY FACTS

- 421 active stations
- 243 inactive stations
- 82% of active stations are Tier 1
- 14 stations have been continuously operating since 1993
- Data retrieval with pvlib iotools from 79 active stations

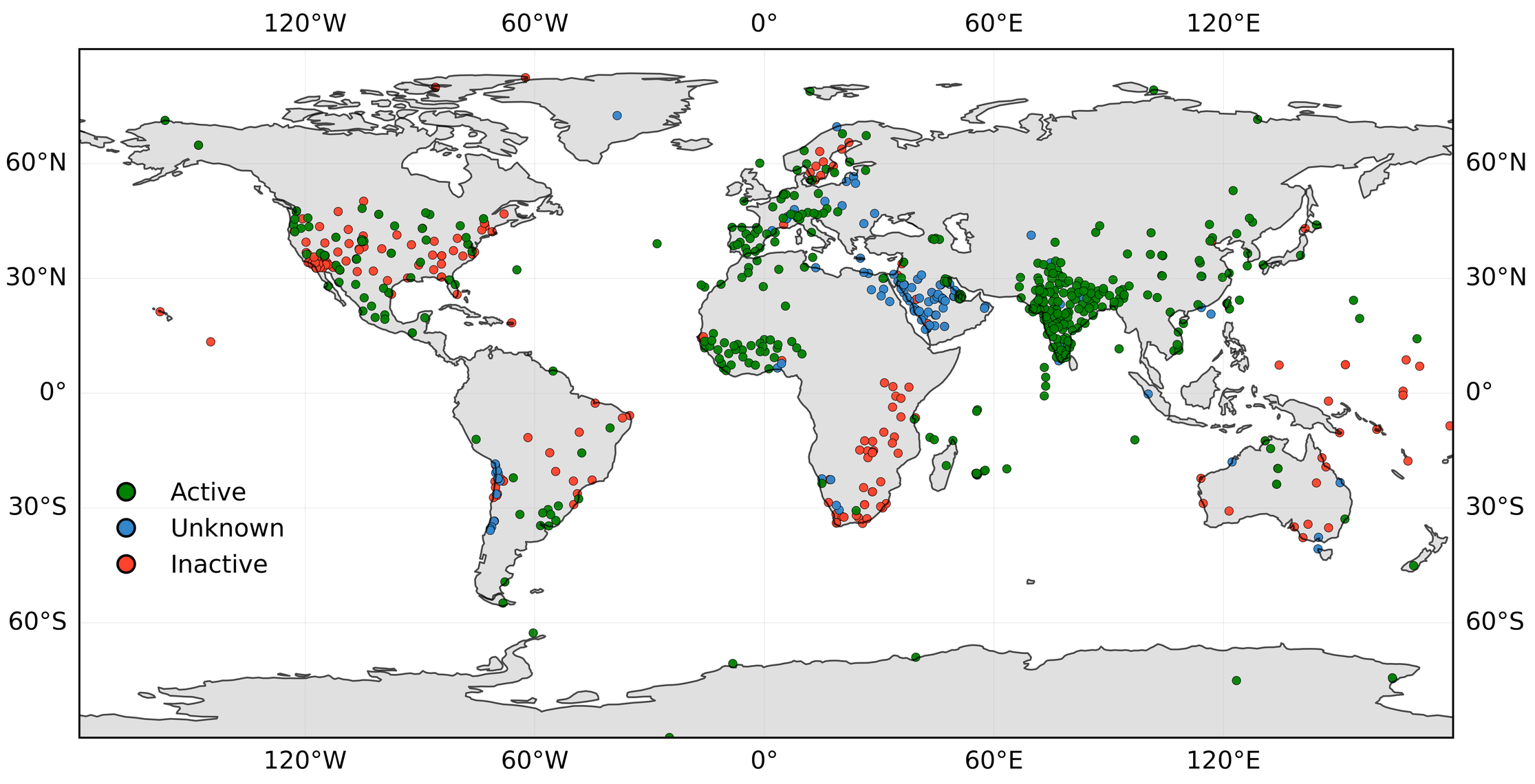


Figure 1: Global map of solar radiation monitoring stations from SolarStations.org.

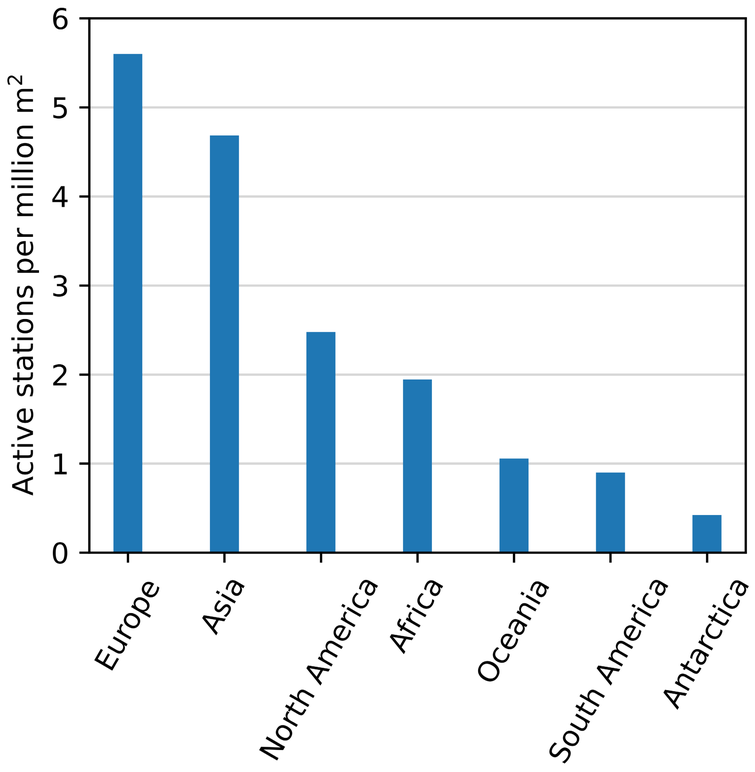


Figure 2: Geographical coverage by continent.

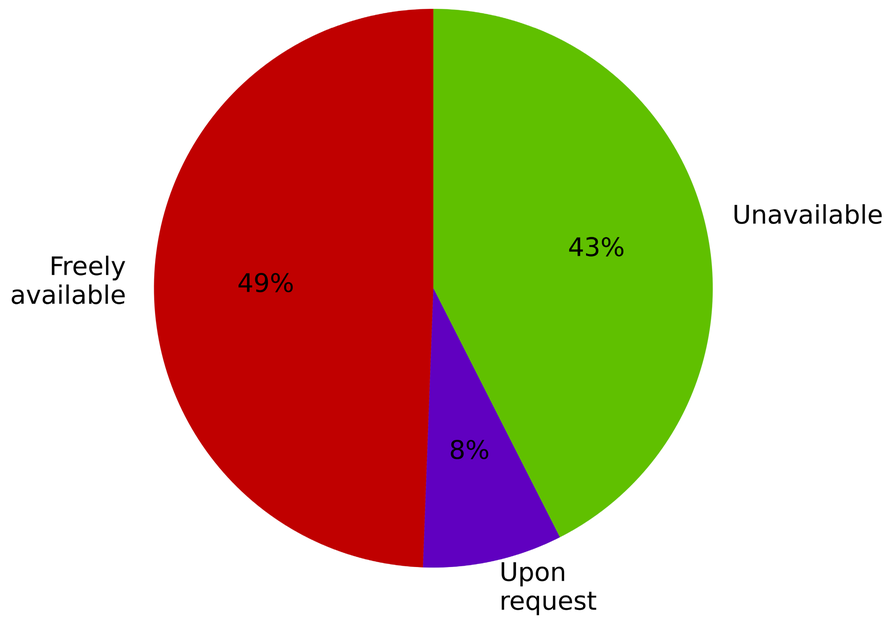


Figure 3: Data availability.

Visit SolarStations.org now!