

StatCast_Cubist

Source code

- [StatCast_Cubist.tar.gz](#)

Model Identifier and version number

- run_ghi_fcst.py
- Version 1.0

Citation Information

- Title
 - DOE Solar StatCast Cubist
- Abstract
 - Converts previous irradiance (GHI/DNI/POA) to irradiance OR power using Cubist regression tree software available at www.rulequest.com
- Author(s)
 - Tyler McCandless, Tom Brummet, Sue Dettling
- Point of Contact
 - Tom Brummet
- Creation Date
 - September 27, 2016
- Modification Date
- Identifier Code
 - DOE Solar Technology Transfer
- Use Constraints
 - None

Distribution Information

- Distributor
 - "UCAR/NCAR - RAL - WSAP"
- Code URL
 - [StatCast_Cubist](#)
- Info URL
 - [StatCast_Cubist](#)

Model description

- Converts previous irradiance (GHI/DNI/POA) to irradiance OR power using Cubist regression tree software available at:
 - <https://www.rulequest.com/download.html>
- [StatCast_Cubist Module Description](#)
- Info about cubist
 - <https://cran.r-project.org/web/packages/Cubist/vignettes/cubist.pdf>

Intended use

- To produce irradiance forecast using previous irradiance values, along with weather variables.

Key assumptions

- Requires solar irradiance observations at the location of interest and nearby weather forecasts in order to produce irradiance forecast

Documentation and References

Installation documentation including hardware and software requirements

- [StatCast_Cubist Requirements](#)
- Technical notes
 - [McCandless+etal_2015_SE.pdf](#)