



Climatology

- Site-specific climatology
- Wind shear, power generation potential calculations
- Wind, ice and snow loading
- On-site data management and restoration
- Database development
- Wind rose development
- 1 to 1000-year return period calculations
- Frost-free periods
- Growing seasons
- Severe weather occurrences

Climatology is used in a variety of business and scientific aspects. Among these are seasonal forecasting for retail sales; determining water resource availability for land developers and geologists; determining wind patterns at different altitudes or locations for wind energy; and determining solar energy potential.



Meteorological Solutions Inc.'s staff of meteorologists have considerable experience in investigating, compiling, and presenting historical weather information in graphical and tabular displays that can be quickly utilized by the client. Site-specific climatology is our specialty. Wind, snow loading, extreme precipitation amounts and return periods for severe weather phenomena are a few of the parameters we can provide our clients.



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Meteorological Solutions Inc. has access to data from thousands of domestic and international weather reporting stations. These data comprise both surface and upper air measurements and include temperature, precipitation and wind information. Some stations also archive solar radiation, stability, cloud cover, humidity and snowfall data. Through statistical techniques, reliable climatological information can be produced for almost any site-specific area and weather parameter. MSI can also provide site-specific weather forecasts of most weather parameters.

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