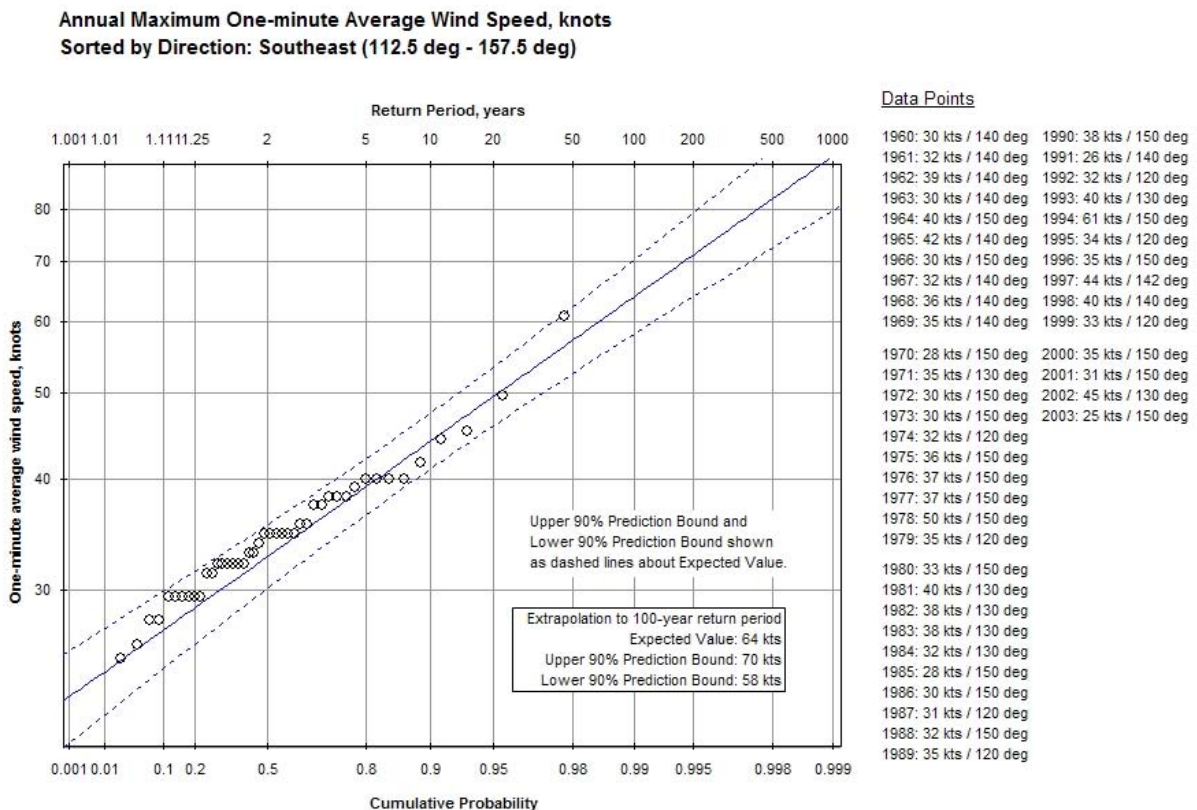


Wind and Wave Climatology Assessment

The Glostén Associates offer climatology services for both design and assessment of operability or risk. We have developed our own specialized procedures to address climatology issues. These tools are used for extreme wind speed analysis, duration, interval, and persistence evaluation, hindcasting of wave heights, and the determination of temperature statistics. Our work is used for design, voyage planning, and site selection.

We routinely make use of climatology data from NOAA, WMO, and U.S. Navy sources. We also have experience working with remotely-sensed data such as synthetic aperture radar (SAR) satellite, and precision altimetry from TOPEX and ERS satellites. In some cases, long-term hindcast databases are purchased from proprietary sources. Glostén also works with specialty subconsultants in micrometeorology, numerical meteorological modeling, or refined interpretation of raw, remotely-sensed images.

The Glostén Associates are leaders among ocean engineering firms in the probability assessment of risk as related to climatology. Our work has been used in risk evaluation for the transport of hazardous, valuable, or structurally unique cargoes. We have evaluated operations risk for waterfront and coastal sites throughout the U.S. and around the world.



Example of an extremal wind speed distribution for a project site in Alaska.