

3.04 WIND OVER THE NAMIB AND ALONG AND OFF ITS COAST

Data ID

Description: Wind speed and direction over the ocean and land

Chapter: Ch03 Climate

Geographical area: Coastal

Keywords: Wind speed
Wind direction

Notes on data, analysis and compilation, and source: The SCOW winds are based a 122-month (September 1999 - October 2009) climatology. These data are available at <http://cioss.coas.oregonstate.edu/scow/>. The reference for this dataset is Risien, C.M., and D.B. Chelton (2008). A global climatology of surface wind and wind stress fields from 8 years of QuikSCAT scatterometer data, Journal of Physical Oceanography, DOI: 10.1175/2008JPO3881.1

Ascii files were converted into grid files. For wind speed these were converted into contours of 0.2 m/s wind speed intervals and converted to polygon shapefiles. For wind direction u and v vectors were converted to an angle values and saved as point shapefiles with direction points at 1 degree intervals. The data were provided by Craig Riesen at Oregon State University, USA

Wind speed data for land stations used for wind roses were provided by Bicon Namibia in collaboration with Ministry of Mines & Energy via Dr Detlof von Oertzen (Consultant) at the time of the 2001 atlas. This dataset remains the most comprehensive available. For wind roses the units of field named Speed in the Excel file is m/s. The units of the field named Windspeed is knots.

Data resolution and notes

Resolution: Original ascii files were provided at point intervals of 1/4 degree

Data types included: Vector

Spatial reference

Projection: Geographic

Spheroid WGS84

Fields

| <i>Field name</i> | <i>Field description</i> |
|-------------------|------------------------------------|
| ID | Polygon ID |
| SPEED_MS | Wind speed in intervals of 0.2 m/s |