



BACKGROUND

Damwatch has comprehensive systems in place for the collection and analysis of wind data. These systems acquire, manage, record, edit and report on large volumes of data collected from a range of monitoring instruments. Over 350 instruments are currently monitored at 48 different mast locations spread across New Zealand, Australia and Antarctica.

MONITORING SYSTEM CAPABILITY

DATA COLLECTION (SYSTEM)

- Numerous data retrieval options (telemetry, email, datachip and radio)
- Telemetry software for various logger types (Magpie, LoggerNet PC208, LoggerNet 3.4.1)
- Daily scheduled automatic telemetry with alarm notification of missed downloads (emails, SMS, pager)
- Ability to process all data file formats.

DATA MANAGEMENT (SYSTEM)

- Thorough Quality Assurance systems in place
- Versatile multi-user systems
- Centralised data storage
- Data security including disaster recovery systems
- Time dependent data acquisition and display.

DATA PROCESSING

- Weekly data review
- Checks for erroneous data
- Checks for malfunctioning instruments and logger equipment
- Deletion of anomalous values and data from faulty instruments.

REPORTING CAPABILITIES

- Weekly processing summaries
- Monthly processing reports
- Annual summary reports
- Statistical analyses (speed, direction, turbulence, gust ratio, shear, maximum gust)
- Graphical analysis (eg. wind roses, histograms, time series, xy plots)
- Site history details.

DATA SUPPLY

- Damwatch can supply data to the client at the required frequency
- Multiple file format options (eg. .hts, .csv)

