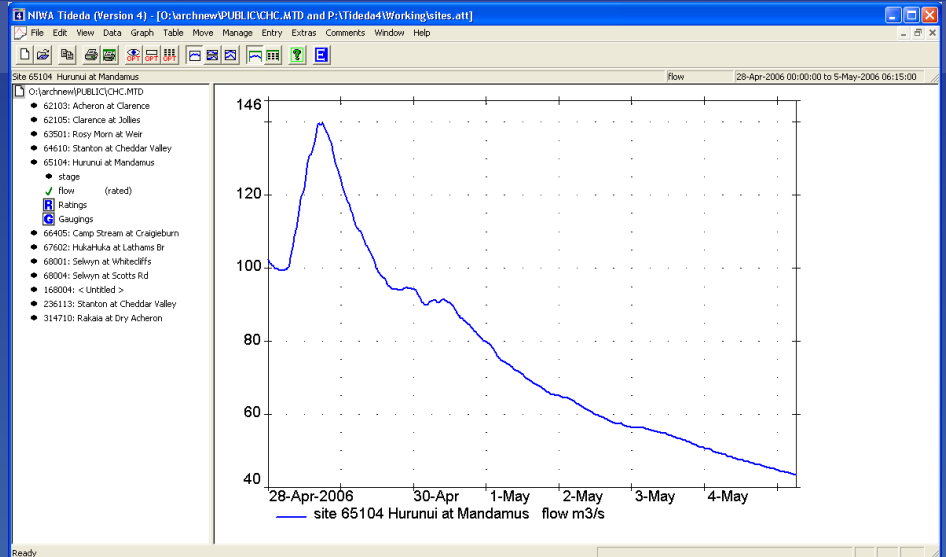


Tideda

Time series analysis and database software

What is Tideda?

Tideda is integrated database, analysis and presentation software for numerical time series data. Tideda is built by the New Zealand National Institute of Water & Atmospheric Research (NIWA) specifically for the management of hydrological and meteorological data. The New Zealand National Hydrometric Database and operational data services are based on Tideda.



Tideda opening screen.

Tideda in brief

➤ Data capture

- Directly from NIWA Flosys telemetry software or via NIWA TdServer data transfer service
- Import downloaded logger files
- Keyboard entry
- Import from text files
- Connect to ODBC data source
- Digitise historical chart records

➤ Data editing

- New data entry/editing utility
- Interactive graphical editor

➤ Data exchange

- Export raw or processed Tideda data into comma delimited (CSV) or XML text formats for easy exchange with other software
- Import data from Text or Tideda XML files
- Copy and paste Tideda graphs and tables into your reports

➤ Data archive

- Efficiently store years, decades, or centuries of data for all of your sites then access it easily and rapidly for display and analysis

➤ Display and analysis

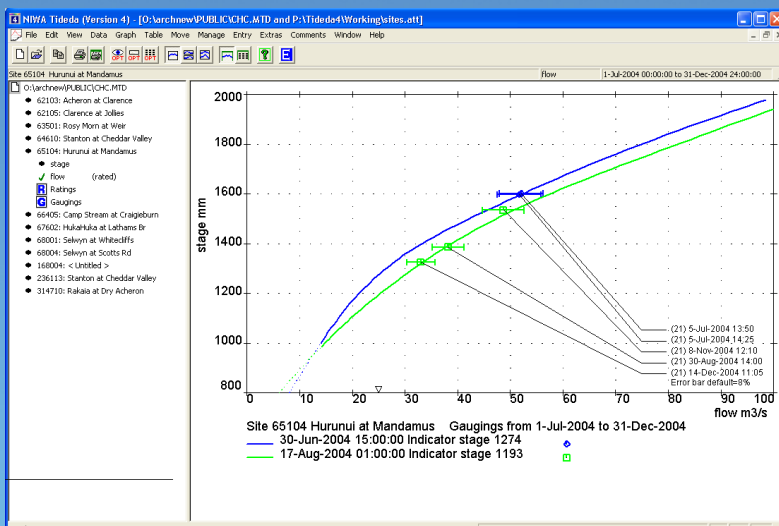
- Easily visualise data with a range of graphical presentations (flow duration, rainfall IDF, wind rose, and many more)
- Calendar reports (hourly, daily, weekly, monthly, or yearly)
- Statistical reports (summaries, extremes, moving means, and distributions)
- Event analysis module calculates and displays and graphs return period of events (floods, low flows, or rainfall)

➤ Modelling

- Built-in module for user defined analysis and modelling (PSim)

➤ Automation

- Record and edit complex procedures to automate your daily tasks (script files)

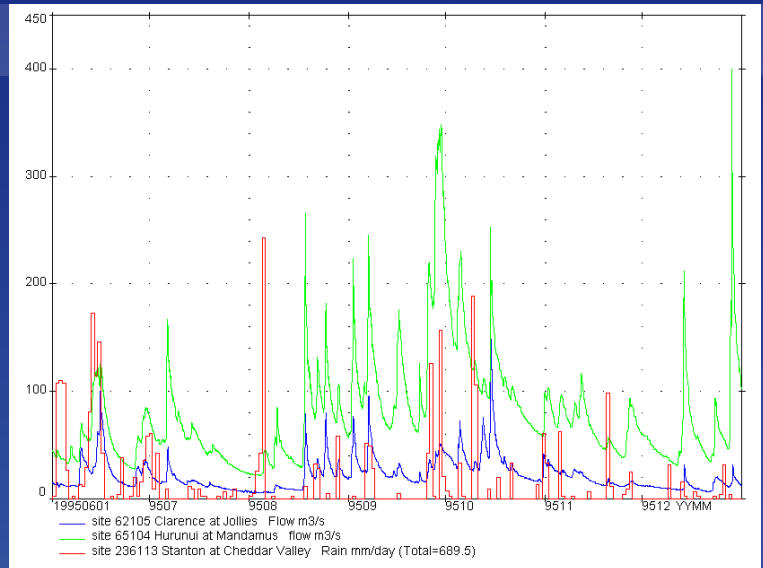


Rating & gauging plot.

Advantages of Tideda

Tideda is a core product for NIWA's own use and, as such, is being continually improved and developed. These developments are passed on to NIWA's customers. The use of Tideda also allows easier access to the scientific and engineering resources of NIWA.

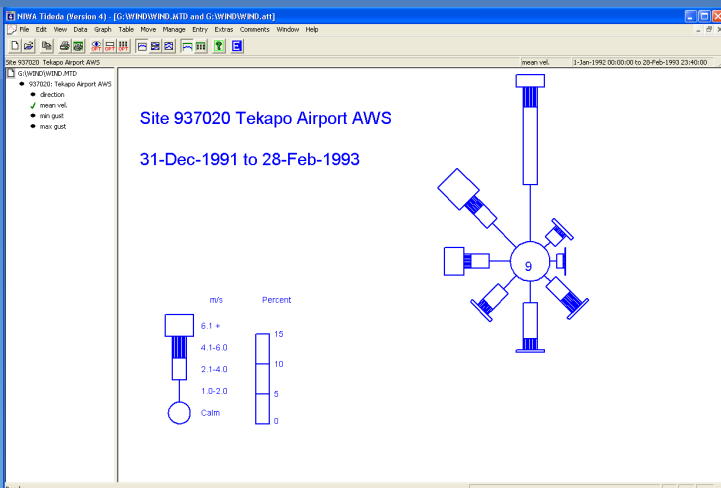
The software is based on solid science, and the scientists who contribute to TIDEDA's development are world-renowned. For example, Dr Richard Ibbitt, of the Regional Steering Committee for UNESCO's International Hydrology Program (IHP) in South-East Asia, was chairman in 1999–2001. Dr Ibbitt has been involved with the development of Tideda since 1970.



Multiple rainfall & flow measurements plotted for same time period.

Technical details

- Tideda runs under Microsoft operating systems Windows NT, Windows XP, Windows 2000, Windows Server 2003, etc
- Requires Microsoft .NET Framework version 1.1 (supplied by Microsoft)
- Microsoft Access ODBC driver is required if using MS-Access for site attribute information or comments
- Tideda installs easily from one CD-ROM and has no special hardware or database requirements. The whole system can easily be run on a standalone laptop computer
- Time resolution: 1 second
- Time range: 109 AD to 9999 AD (limited by user interface)
- Data range: +/- 2,147,483,647
- Up to 255 data items per site at each time step
- Time series data are stored in indexed binary format to enable highly efficient storage and retrieval. This gives Tideda unrivalled performance when processing long periods of data for many sites



Wind rose:

Associated products

- Flosys Server (telemetry server)
- Flosys Explorer (telemetry control and data viewer)
- TdGauge (flow gauging entry, calculation and database)
- Starlog (Unidata Starlogger management)
- TdServer / TdClient (Tideda data transfer over TCP/IP)

Pricing

Tideda is sold as a single-user licence or as a site licence. Once purchased, you own Tideda. There are no ongoing costs. There is an optional maintenance contract that gives you regular updates and user support.

As Tideda is a mature product that NIWA supports for our own operations, pricing is very competitive. Contact us for pricing options.

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