Station Toolbar · Menu Bar · ODV Toolbar · General Info Window · Channels Info Window · Log Window · Alarm Pop-up · Data Streams Info · Status Bar · Realtime Data · Context Menu
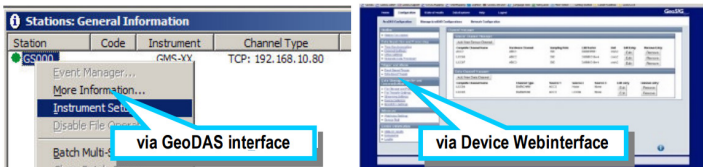
GeoDAS Software

Overview

GeoDAS software is a graphical Microsoft Windows-based application running under Windows OS. Virtual machines or wrapper applications can be used to enable its many features to run under Linux, Mac OS, Unix and other operating systems too.

GeoDAS, when compared to any similar application, provides the most comprehensive, intuitive and versatile features available in the earthquake, seismic, structural, dynamic and static monitoring and measuring industry.

GeoDAS has been designed to meet requirements with respect to almost every possible application and can integrate/interact with many other software.

Versatile Instrument Setup

via GeoDAS interface · via Device Webinterface

General Tasks – COM*

▶ Instrument, network, and system setup

▶ State of Health (SOH), logging and permanent or periodical monitoring of instrument/system status

▶ Communication links administration and monitoring supporting SEEDlink and GSBU datastreams

▶ Real-time data viewer and recorder with alarm and notification features

▶ File manipulation and format conversion into ASCII, SUDS, SAC, SEISAN, ARTeMIS, MATLAB
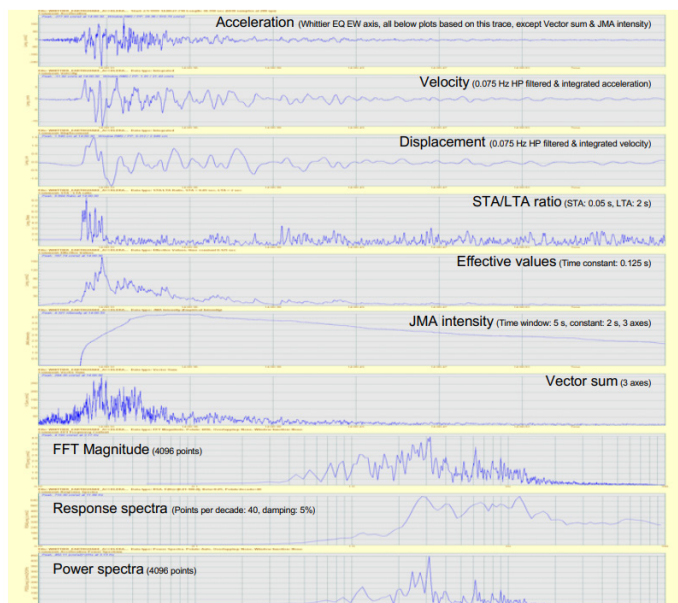
▶ Off-line data viewing and inspection

-BASE* *is a package excluding specific basic cables and hardware*

Data Analysis – DAP*

Manual data analysis functions are:

- Lowpass filter
- Highpass filter
- Baseline correction
- Integration
- Differentiation
- Vector Sum
- Cumulative Absolute Velocity (CAV)
- Time-domain filtering
- Effective values
- Damping
- Power spectra
- FFT magnitude
- Terzband spectra
- Response spectra
- JMA intensity
- STA/LTA ratio
- Signal characteristics
- Analysis templates

-ECD* *is the combined package of GeoDAS-COM and GeoDAS-DAP conveniently provided together.*
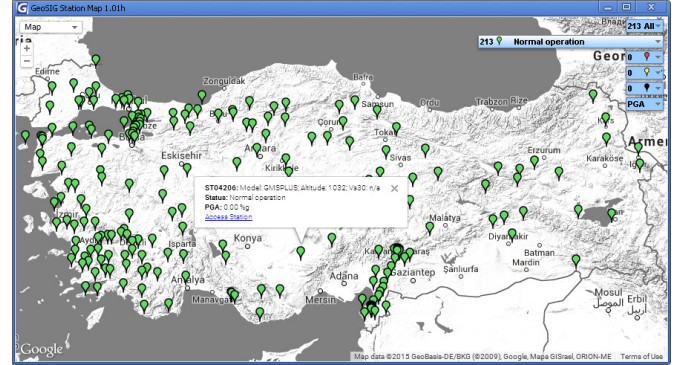

*: optional features

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GeoDAS Software
Specifications

Advanced Station Map - ASM*

Display of stations with colour-coded state of health on Google Maps or on a fixed image with associated coordinates with direct access to each station's setup / web interface.

Other Capabilities*

GeoDAS also offers special functions, as well as automated data analysis that is required for particular applications or to be activated in special cases

▶ Strong Motion Data Processing – SMD *

▶ OBE / SSE event checks & reports - NPP *

▶ Support for ADC boards - ADC *

▶ Post-processing, reporting, notification *

▶ Static measurements, rainflow counting - STM *

▶ Automatic Event Processing - AEP *

▶ Automatic File Conversion to special formats - AFC *

▶ Customer specific file and stream handling *

*: optional features

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