Seismic Handler release 2011.2

The version 2011.2 of SH/SHM was released on 14th of April 2011.

Release notes

Seismic Handler uses now python helper programs. Please make sure, that you have at least python 2.5 installed. LocSAT and fk analysis software is now mandatory. The software packages are downloaded during the installation process (so you need an active internet connection).

Since we switched all our PC infrastructure to Linux, the software is tested only on such systems.

We are still working on a Seismic Handler version with a new graphical interface (so called SHX). The first testing release will be available in the next months.

Installation archive

The pre-packed software archive is self-extracting (?Download, md5sum 05977e51973183c8e9cd995f9a701b3a).

For detailed installation procedure please look at the installation instructions.

Virtual applicant

If you like to test the new version without any installation effort, you may try the virtual machine we prepared. It runs Ubuntu 10.4 with the The Lightweight X11 Desktop Environment and SH/SHM 2011.2 installed.

Changelist

The last official release of Seismic Handler was some years ago - but the development never stopped.

Seismological work

- Station configuration information is additionally included from $SH_PRIVATE not only $SH_INPUTS.
- Updated GRSN station information (plus additional stations).
- Additional simulation filters.
- `sfdline` outputs network and location code by default.
- Channel transformation (e.g. load data with highest sampling rate available, see $SH_INPUTS/chantrans.txt).
- Conversion tool from SeisComP3 to SH's EVT format.
- Stand-alone program to determine the geographical region (GeographicRegion).
- SH: Experimental network interface (undocumented).
- SHM: Amplitude measurements on band-pass filtered traces.
- SHM: Location dependent auto-filter.
- SHM: Delete location menu entry.

- SHM: Additional checks for teleseismic events (e.g. depth given, but no depth phase associated or double phases).
- SHM: Source region is updated automatically on location change.
- SHM: Identify Phase uses ?NERIES XML web service.

IT issues

- Refreshed setup process.
- BASH environment is supported.
- Link to LocSAT executable now placed unter /usr/bin/LocSAT (root installation) or $HOME/lcs (user installation).
- Many mseed related fixes and enhancements (100 Hz data, new formats, ...).
- Updated support for GCF files (Güralp binary format close to MSEED).
- Included python version of sfdline (output MSEED header information) using ?obspy.
- More text editors are supported (and automatically configured).
- If you overwrite an existing SH/SHM installation, your configuration files are backed-up.
- Support for data-base based waveform archive.
- Compatibility to GCC 4.x compiler.
- 64-bit compatibility.
- Increased length for all types of internal lists.
- Removed support for ancient systems: VAX, VMS, DOS, ATARI, TEK, plotters, tapes, ...
- Many bug-fixes.

If you are interested in the deep details of changes, please have a look at the detailed source code change list: [1:375/SH_SHM/trunk].