

# Features of the SHM program

## Main features

- Reading traces from continuous data streams in Stein-compressed MiniSEED files. Additionally supported formats are event data from GSE, AH and Q (private format of SH) files.
- Zoom in and out traces in time and amplitude.
- Application of a set of standard filters (simulation filters and Butterworth filters) on broadband input traces.
- Reading phases on original or preprocessed traces.
- Determination of signal/noise ratio
- Computation of teleseismic beam traces using array-beamforming or FK-algorithm, determination of slowness and back-azimuth of an incoming wavefront.
- Location of teleseismic events using global travel time tables based on array methods or relative travel times, determination of focal depth using depth phases
- Location of regional and local events using LocSAT program, flexible interface provided for integration of own location programs.
- Integration of an own external programs (e.g.: map display, phase diagrams).
- Displaying theoretical travel times.
- Determination of amplitudes and magnitudes (ml or mb and Ms).
- Saving analysis results into an output text file for further processing.
- Supported operating systems: Sun/Solaris? and Linux

## Additional features

- Rotation of 3-component seismograms
- Particle motion diagrams
- Vespagram-like trace summation
- Trace spectrum display

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