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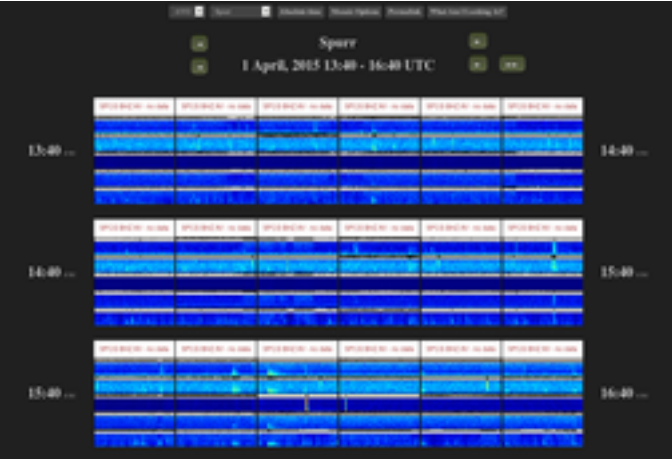
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Software

Pensive

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Pensive is a Java application designed to allow visualizing, in near real-time, spectral content of continuous seismic waveforms from a number of sensors deployed on active volcanoes. The code is open source, freely available, and in the public domain.

Pensive is inspired by the IceWeb spectrogram browser (a MATLAB/PHP application) that has been running at AVO Fairbanks since 1998 (<https://github.com/geoscience-community-codes/IceWeb>).

Pensive can be downloaded [here](#).

Running Pensive

Pensive can be run in two modes. In real-time mode, Pensive will run continuously, creating plots every 10 minutes. In Back-fill mode, Pensive will crate a series of plots with a predetermined time span.

Pensive can be started in realtime mode at the command line by executing `java -jar pensive.jar <configFile>`. If no configuration file is given, Pensive will look in the working directory for a file named `pensive.config`.

Pensive can be started in realtime mode at the command line by executing `java -jar pensive.jar <configFile>`. If no configuration file is given, Pensive will look in the working directory for a file named `pensive.config`.

Pensive can be started in backfill mode at the command line by executing `java -jar pensive.jar --startTime <yyyymmddhhmm> --endTime <yyyymmddhhmm> <configFile>`. If no configuration file is given, Pensive will look in the working directory for a file named `pensive.config`.

An example configuration file can be created by executing `java -jar pensive.jar -c`.

Logging

By default logging is sent to both STDERR and to a file named `pensive.log`. The logfile will be automatically rotated and the 9 most recent log files will be retained.

The log file contains more detail than is sent to STDERR. Even more verbose logging can be enabled by passing `-Dlog4j.configuration=log4jDebug.properties` to the JVM at startup.

Contact

For questions, please contact Tom Parker (tparker@usgs.gov).