swarm-3.2.0-mvo
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swarm-3.2.0-mvo is a modified version of swarm-3.2.0 configured for use at MVO.

The Swarm home page is https://volcanoes.usgs.gov/software/swarm/index.shtml.

Installation

Windows
- Copy directory to computer.
- Create shortcut to *swarm_console.bat*.

Linux
- Copy directory to computer, normally either *~/software/swarm* or *~/src/swarm*.
- Copy *swarm-3.2.0-mvo/torun-linux/start_swarm.sh* to your *bin* directory or somewhere on your path.
- Edit the path in *start_swarm.sh.*

MacOS
- Copy directory to computer.
- Edit the path in *<wherever>/swarm-3.2.0-mvo/torun-linux/swarm-mac-desktop.*
- Create desktop shortcut to run *<wherever>/swarm-3.2.0-mvo/torun-linux/swarm-mac-desktop*.
  - Optional: use *<wherever>/swarm-3.2.0-mvo/torun-linux/swarm-mac-desktop.gif* as the icon for the shortcut.

git

swarm-3.2.0-mvo is maintained on *opsproc3* using *git* (*https://github.com/mvoseismic/swarm-3.2.0-mvo*). At the time of writing, *git* is not used to keep other computers synchronized, so any changes in layouts made on other machines have to be copied back to *opsproc3*.

Data Chooser window

Nine of the MVO stations are shown in the Data Chooser window. These are direct links to the *seedlink* servers at the stations. These can be used when the Winston servers are not returning current data.

Don't use these unless necessary, as they can hog bandwidth on the radio links.

Layouts

There are many different layout *config* files in the *layout* sub-directory and thus in the *Layout* drop-down menu. Layouts that use a waveserver use *winston2*, except where named **-winston1* Here are the important ones.

Layout	
heli-12	All twelve helicorders in a row. Used on *opsrm06*.
heli-12-grid	All twelve helicorders in a 4x3 grid.
heli-4-closest	MSS1, MBFR, MBLY and MBLG helicorders in a 2x2 grid.
heli-4-direct	MBFR, MBLY, MBLG and MBFL helicorders in a 2x2 grid, direct from stations.
heli-6-direct	MBFR, MBLY, MBLG, MBBY, MBGH and MBFL helicorders in a row, direct from stations.
mapDisplay	Fancy map display. Needs to be fettled to fit different screen resolutions.
sgram-4-10m	Real-time spectrograms for 4 stations, 10 minutes of data. Used on *opsrm05*.
wave-4-10m	Real-time waveforms for 4 stations for the last 10 minutes.
wave-all11-10-winston1	Real-time waveforms for all 12 MVO stations and ANWB for the last 10 minutes. Used on *opsrm04*.