Ops Room Displays
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The real-time displays in the Ops Room use the *swarm* software, which is getting data from a *winston* waveserver.

Use helicorder plots on webobs or at http://www.mvo.ms/helis/welcome.html to monitor activity if you have a persistent problem with the displays. These helicorder plots are created independently of the waveserver.

Swarm normally runs in "kiosk mode". Use the F11 key to switch between kiosk and normal modes.

Sometimes the displays freeze or fail to update. This is usually caused by a fault in communications with the waveserver. If this happens, do the following.

- Use the Pulseway app or web interface (mvo.pulseway.com) to restart the *winston1* computer. This will restart the *winston* waveserver.
- Wait a few minutes to see if the *swarm* displays are updating.

If the displays do not start to update, you need to restart *swarm* on the relevant computer(s). If you cannot close the *swarm* window using the mouse, do the following.

- Stop *swarm* using the menu **Applications - Swarm - kill SWARM.**

  or

- Open a terminal window using the menu **Applications - System Tools - Terminal**.
- Type the command ***pkill -f swarm***.

- Start *swarm* using the menu **Applications - Swarm - Swarm 3.2.0**.
- When *swarm* has started, press F11 to go to "kiosk mode".