



SEISMIC TEST SLAB

WHOI Ocean Bottom Seismograph Laboratory

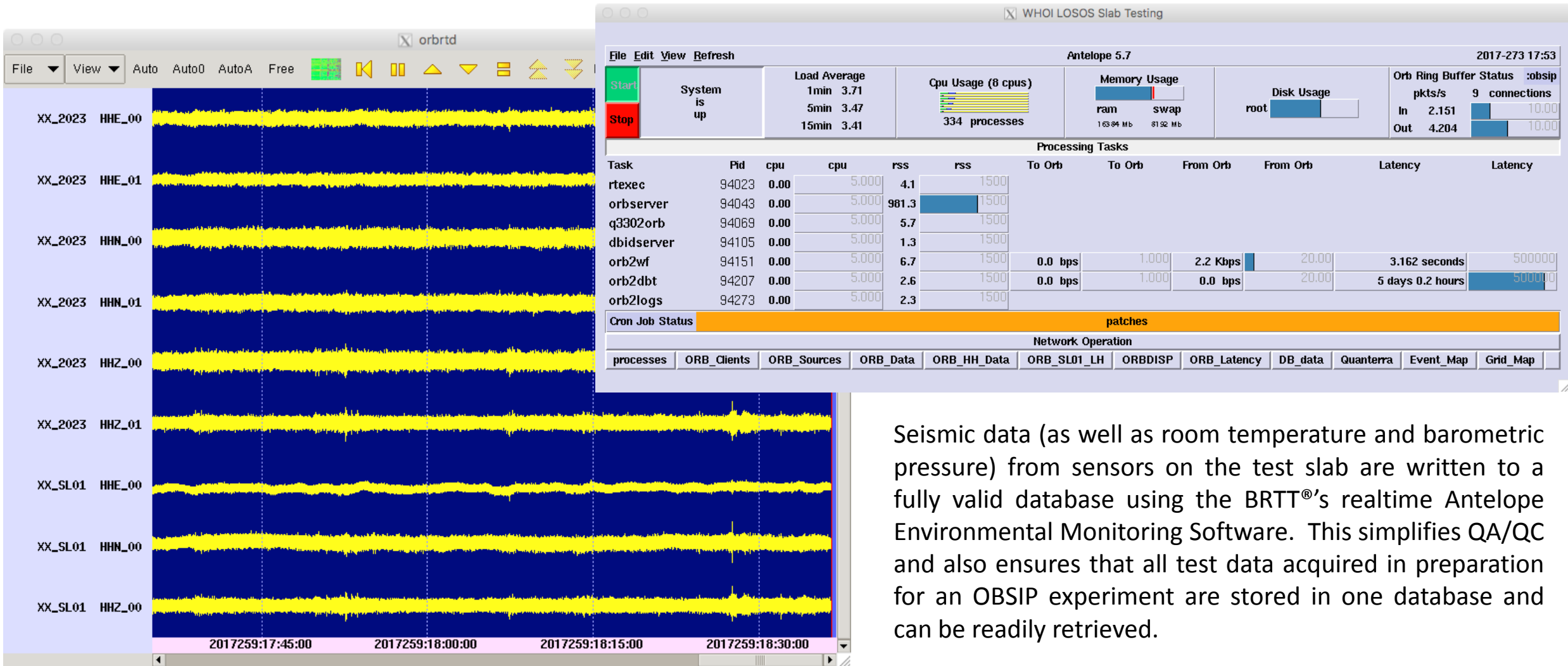
Seismic Test Slab Details



The WHOI OBS Lab has a concrete floor slab dedicated for seismometer testing. The slab is detached from the building walls and from the room floor. A series of north-south lines oriented with an Octans[®] gyroscopic compass are scribed on the slab surface. Four 6-channel Quanterra[®] Q330 data-loggers and associated Balers allow simultaneous recording of eight 3-component sensors. The tall green-colored sensor at the rear is a Nanometrics[®] Trillium 240 broadband seismometer (temporarily without its insulating cover) that acts as a reference sensor.

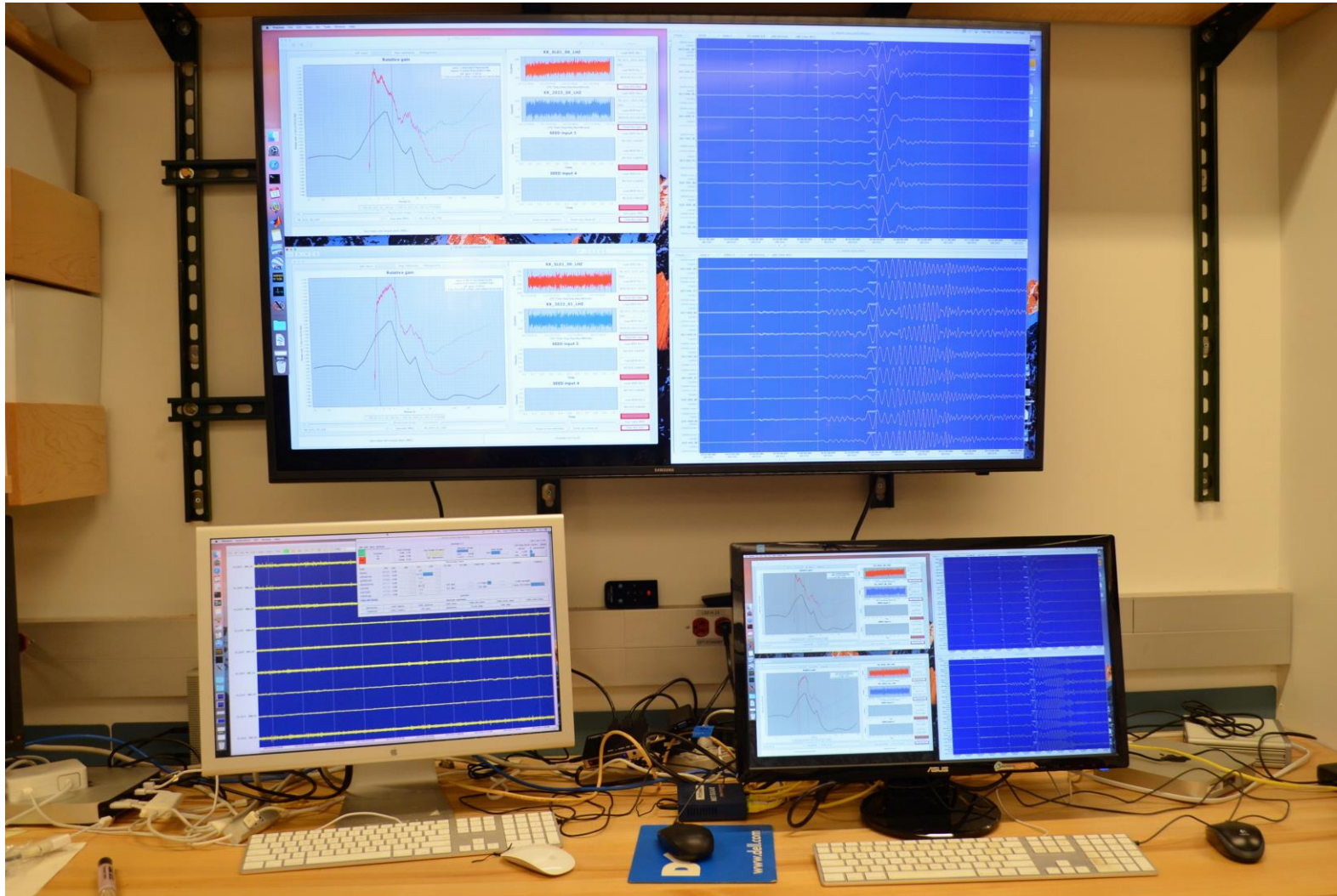
The picture shows 5 Guralp CMG-3T broadband seismometers sitting in their gimbaled leveling systems in the lower hemispheres of their pressure housings. The pressure housings sit in bins of glass beads to ensure adequate coupling to the ground. Other sensors on the slab include a Nanometrics Trillium Compact seismometer (at rear), a Nanometrics Trillium Compact OBS seismometer (in foreground), and a WHOI 3-component geophone package (right foreground)

Antelope Environmental Monitoring Software



Seismic data (as well as room temperature and barometric pressure) from sensors on the test slab are written to a fully valid database using the BRTT®'s realtime Antelope Environmental Monitoring Software. This simplifies QA/QC and also ensures that all test data acquired in preparation for an OBSIP experiment are stored in one database and can be readily retrieved.

Data Display



A dedicated Apple Mac mini in the OBS Lab runs the Antelope software.
Another Mac mini handles data processing and display.