

## Network Fact Sheet: NetOps Workshop 2006

<b>Name:</b>	University of Utah Seismograph Stations (UUSS)
<b>Authoritative Monitoring Region:</b>	<i>Utah Region</i> : state of Utah and bordering parts of surrounding states. Coordinates: (36.75°N - 42.50°N, 108.75°W - 114.25°W) <i>Yellowstone Region</i> : Yellowstone National Park, WY and immediate surrounding areas. Coordinates: (44.00°N - 45.17°N, 109.75°W - 111.50°W)
<b>Station Statistics:</b>	100 short-period, 86 strong-motion, 33 broadband
<b>Data Acquisition &amp; Recording Systems:</b>	Both analog and digital telemetry data are acquired and processed by an Earthworm System (v 6.0 - 6.2), which produces automatic locations, magnitudes, and ground motion measurements for ShakeMap. Analog telemetry data are also acquired by a Concurrent computer running HAWK software developed at the University of Washington (UW). The HAWK system runs an event detection algorithm and produces event-triggered files of analog telemetry data. Digital telemetry data from the Earthworm system are added to these files for the purpose of routine data processing.
<b>Routine Data Processing:</b>	Modified version of UW's "ping" software (uping) for picking arrival times and signal durations, Hypoinverse - 1978 for computing locations and coda magnitudes, and UUSS software (ml) for determining local magnitudes.
<b>Emergency Data Processing:</b>	Quick Review (an Earthworm Module which uses an Oracle database)
<b>Data Archive &amp; Distribution:</b>	The IRIS DMC retrieves continuous waveform data from our Earthworm System public wave tanks several times per day. In addition, data from triggered events are archived on-site and at an off-site location.
<b>Data Loggers:</b>	Kinematics (K2, Etna), REFTEK (72A-07, 72A-08, RT-130, ANSS-130)
<b>Sensors:</b>	Short-Period (L4, L4C, S13, 18300, Ranger) Broadband (Guralp CMG-40T, Guralp CMG-3T, Guralp CMG-3ESP, Streckheisen STS-2) Strong-Motion (Kinematics FBA-23, Kinematics Episensor, Applied Mems)

<b>Telemetry:</b>	<p>Analog: audio FM via various voice-grade media, including VHF, UHF, and third party microwave radio and dedicated telephone circuit</p> <p>Digital: serial and Ethernet half- and full-duplex utilizing various spread-spectrum radio modem configurations (point-to-point, point-to-multipoint, TDMA, and Ethernet bridge), terminal servers, routers, modems, and multiplexers to access public internet, DSL, and frame-relay wired media and third party microwave systems</p>
<b>Seismic Network Map:</b>	<a href="#">see Attachment</a>
<b>Summary Statistics for Seismic Network:</b>	<a href="#">see Attachment</a>
<b>Earthquake Data and Information Products:</b>	<a href="#">see Attachment</a>



