HLP RT-130 Station Installation (revised 6/27/2007 DEJ)

STATION: M008  Month: 10  Day: 13  Year: 2007
ARRIVAL TIME(local): 4:30 pm OPERATOR: ROTH J., FOXX M., HOLLOWAY S., MAGEE A.
DAS S/N: 9282  SENSOR S/N: 134744  GPS S/N: 1900
Handheld GPS Sta Loc: Lat: 42.544357 N  Lon: 115.980456 W  Elev: 1445 m
POWER: BATT-1: 12.8  BATT-2: 12.61  solar panel output (~18V): 19.7

+---------------------------------------------+
| Connect cables:                            |
| 1) Build power system                      |
| □ RT-130 (GPS) to GPS                      |
| □ power to RT-130                          |
| □ Sensor to RT-130 (CH1-3)                 |
| □ Clear: PFC_130 to Control to RAM to Clear |
| □ Reset DAS:                               |
| □ Format Disk to 1:                         |
| □ Format Disk to 2:                         |

> Check that GPS has locked: Control -> Status -> GPS
(WARNING: Load parameters from Clie to DAS ONLY AFTER GPS LOCK)

> Exit Control (click DONE on successive screens until return to Control)
> PFC_130 -> Work with Configuration (Refer to Configuration Sheet for RT-130 in back of service binder)
> Work with Configuration > Load > HLP (or) Work with Configuration > New > Name: HLP
> Edit configuration file:..........................
> Send to DAS:......................................
> Confirm (optional): Upload from DAS and confirm that parameters have been correctly set in RT-130:...

Sensor Mass Position: (measure initial voltage at breakout box, vault open)
- Voltage CH 1: 0.2  CH 2: 0.2  CH 3: 0.3

Push mass center button from breakout box if any CH > +/-1.5V (Guralp) or +/-2.5V (STS-2) and, if necessary, repeat at 2-3 minute intervals until centered. Seal up vault and continue centering if necessary through the Clie.

> Control -> Aux. Cntrl -> Aux. Ch.
If any CH > +/-1.5V (Guralp) or +/-2.5V (STS-2), touch CENTER 1-3 (and update) until all CH < +/- 1.5V or 2.5 V.
Final mass position voltages: CH 1: 0.2  CH 2: 0.2  CH 3: 0.3

Waveform Monitor: Control -> Monitor -> View: Record Midpoint and Range
CH 1 2001.5 8.14  CH 2 24.7 10.5  CH 3 10.292 4.030

Start Acquisition: Control -> Status -> Start Acq.
DAS Status: (use Update to Refresh)
Time: 2007:287:02:01:56
Acq: 52 sec CH
Events: 2
RAM: 36 of 4352 MB Increasing?
Disk1: 1991 MB (Current)
Disk2: 1971 MB (Current)
Temperature: 114.7°C
Power: 12.4 in 3.3 KHz 0.8 eV
Ch: 1, 2, 3  DS: C

GPS Status: GPS
Time: 2007:287:02:03:35
Sec since LL: 00:00:23:00
Phase Diff (µs): -00.000/001
Mode: CICLE
Status: 06×0P  SVs: 9
Lat: 42.2327944
Lon: w 115.5882409
Elev(m): 1442 m

Departure Time(local): 19:10

****PLEASE NOTE ANY SPECIAL PROBLEMS BELOW ON THIS SHEET****

Note: (10/16) - Install sheet incorrectly labeled Station as OR008. Check data files for correct Station name.
HLP RT-130 SERVICE SHEET (last revised 6/27/2007 DEJ)

STATION: ID# 50 Month: 5 Day: 26 Year: 2008 ARRIVAL TIME (local): 2:00 pm
Voltage CH 1: +0.4 CH 2: -0.7 CH 3: -0.3
Use Center 1-3 to recenter if any CH > +/- 1.5 volts Guralp; > +/- 2.5 volts STS-2. Check here.
Continue with recenter command (and update) until all channels are < +/- 1.5 V (Guralp); 2.5 V (STS2)
Enter final mass position voltages: CH 1: ________ CH 2: ________ CH 3: ________

DAS Status: Control -> Status: (use Update to Refresh)
Acq: Start On
Events: 19840
RAM: 2511 of 4352 X Increasing?
Disk1: 1460 of 1771 (Current)
Disk2: 1689 of 1771 (Current)
Temperature: 21.8 C
Power: 13.3 Ah, 23.44, 0.0 ohms
Ch: 17.3 DS CC

CALIBRATION: Control -> Aux. Cntrl -> Test 1-3...... Wait quietly for 18 min.......

STOP ACQUISITION: Control -> Status -> Stop Acq: Wait until disk is no longer in use, update status screen then remove and record time here: 2:14 pm

Disks Removed: (1) circle one or both). Install new disk(s): Confirm that correct disk has been removed by checking disk content: Control -> Status: disk1/disk2.

ROUTINE SERVICE
Control -> RAM -> Clear: X
Control -> Reset DAS: X
Control -> Format Disk 1: X
Control -> Format Disk 2: X

REPLACEMENT (record details and new S/N below!)
Control -> Status -> GPS Status: X (confirm lock?)
Configuration: Load new parameters only after GPS lock
Control -> RAM -> Clear: X
Control -> Reset DAS: X
Control -> Format Disk 1 & 2: X

WAVEFORM MONITOR: Control -> Monitor -> View: Record Midpoint(M) and Range(R)
CH 1: M 167 R 348 CH 2: M 970 R 249 CH 3: M -986 R 595

START ACQUISITION: Control -> Status -> Start Acq
DAS Status: use Update to Refresh
Acq: Start On
Events: 2
RAM: 36 of 4352 X Increasing?
Disk1: 0 of 1750 (Current)
Disk2: 0 of 1450 (Current)
Temperature: 23.3 C
Power: 13.1 m, 3.3 u, 0.0 ohms
Ch: 12.3 DS CC

GPS Status: GPS
Sec since LL: 05:20:17:00
Phase Diff.(us): 0
Mode: Cycle
Status: ASleep SV's: 11
Lon: W 42:52.79:47
Alt(m): 115:56.52:83

DEPARTURE TIME (local): 2:38 pm

PLEASE NOTE GENERAL STATE OF THE STATION AND ANY SPECIAL PROBLEMS IN SPACE BELOW

Replaced bad GPS antenna S/N 1800 (Bad)
S/N 2019 (Replacement)
HLP RT-130 DEMOBILIZATION SHEET (v2) (last revised 20080716 MJF)

STATION: 10 00 08  Month: 09  Day: 17  Year: 2004  ARRIVAL TIME(local): 5:52

Voltage CH 1: 0.3  CH 2: 0.1  CH 3: -0.9

Use Center 1-3 to recenter if any CH > +/-1.5 volts Guralp; > +/-2.5 volts STS-2. Check here √
Continue with recenter command (and update) until all channels are < +/-1.5 V (Guralp); 2.5 V (STS2)
Enter final mass position voltages: CH 1: ________  CH 2: ________  CH 3: ________

DAS Status: Control -> Status: (use Update to Refresh)
Acq: start on
Events: 5424
RAM: 7737 of 4352 KB  increasing
Disk1: 1627 of 4950 MB  (Current)
Disk2: 0 of 1950
Temperature: 24.8°C
Power: 13.0 IN, 3.3 BKPA  0.0 CHGR V
Ch: 1 2 3  DS: cc

GPS Status: GPS
Sec since LI: 0
Phase Diff.(u.s): -1 ms
Mode: Cycled
Status: locked  SV's: 10
Lat: N 42.327139
Lon: W 115.598285
Alt(m): 1446

CALIBRATION: Control -> Aux. Cntrl -> Test 1-3...... Wait quietly for 18 min......√

STOP ACQUISITION: Control -> Status -> Stop Acq: Wait until disk is no longer in use, update status screen then remove and record time here: 6:28

☐ Remove disk(s) and label with station ID, date, disk # & final data amount (in Mb)

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DEMOBILIZE STATION

☐ If sensor is a 3T: lock masses with power on; disconnect breakout box
☐ If sensor is an STS2: disconnect breakout box; lock masses with power off
☐ Confirm alignment of sensor with vault alignment line. If not aligned, enter misorientation value: ________
☐ Remove sensor; enter sensor information: Type: Guralp  Serial #: T34774
☐ Enter assumed declination from installation (as written on sensor pad): 15°E
☐ Confirm Bruntlton compass declination is set to same value as that written on pad
☐ Measure orientation of vault alignment line (N-S for Guralp; E-W for Streckheisen). Enter orientation: N-S

If measured orientation does not appear to be correct, double check measurement and confirm with at least one other team member!

DATALOGGER
☐ Disconnect power box
☐ Disconnect datalogger (all cables); enter serial #: ________
☐ Disconnect batteries; cover terminals with plastic caps or tape
☐ Disconnect solar panels and GPS; enter GPS serial #: 2019

"PLEASE NOTE GENERAL STATE OF THE STATION AND ANY SPECIAL PROBLEMS IN SPACE BELOW"