SERVICE SHEET Station:_____

Local Date/Time:_____ GMT Date/Time:_____

Field Team: _____

GPS Location of Site: _____

Equipment

DAS S/N:_____

Clock S/N:_____

Sensor S/N _____ Sensor Type: _____

Get DAS initial Status:

DAS Status (Control ⇒ Status)

Acq: Start On / Off

Events: _____ RAM: _____ of _____

Disk 1: _____ of _____ Disk 2: _____ of _____

Temp: _____ ***Power: Input** _____ **Bkup chg:** _____

Ch: _____ DS: _____

***If Power is Low**, follow instructions at the end "IF POWER IS BAD"; otherwise continue.

Clock Status (Control ⇒ Status ⇒GPS)

Sec since LL:_____ Phase Diff_____ SV's:_____

Service

1. **Stop Acquisition** (Control ⇒Status ⇒Stop Acq)
2. **Get RT130 parameters from the DAS**

Work with Config ⇒From DAS ⇒Edit ⇒Verify experiment name: _____

Get Sensor Serial Number: ⇒Channels⇒Details⇒record sensor S/N above

3. **Swap Disks** (wait for disk writing to finish)

Orig. Disk 1 S/N: _____ Size: _____ Orig. Disk 2 S/N: _____ Size: _____

LABEL these DATA Disks – do not reuse them until data are downloaded and backed up

Swap Disk 1 S/N: _____ Size: _____ Swap Disk 2 S/N: _____ Size: _____

5. **Clear RAM** (Control ⇒RAM ⇒Clear)
6. **Reset System** (Control ⇒Reset) Note: this initializes the GPS
7. **Format Flash Disk** (Control ⇒Format Disk ⇒ Disk 1:_____ Disk 2:_____
8. **Check Mass Position Offsets** (Control ⇒Aux. Control ⇒Aux Channel)

<u>Mass position must be within +1.5V to –1.5V</u>

Ch 1: _____ V

Ch 2: _____ V

Ch 3: _____ V

9. **Monitor/Tap Test** (Control ⇒Monitor ⇒Stream 1)

Ch 1:_____ Ch 2: _____ Ch 3: _____

10. Check **Clock Status** (Control ⇒Status ⇒GPS)

Sec since LL:_____ *Note clock MUST lock before starting acquisition

Phase Diff _____ us (should be a small number)

SV's: _____

11**. Start Acquisition**: (Control ⇒Status ⇒Start Acq)

Start time: _____

12. **Verify RAM Increasing** (Control ⇒Status ⇒Update)

Yes / No

13. **Force RAM Dump** (Control ⇒ RAM ⇒ Dump)

Verify RAM *decreases* and disk 1 or disk 2 *increases* (Control ⇒ Status ⇒ Update) Yes / No

Current disk _____

Date_____ Station_____

14. **Write .CFG File to Disk** (Control⇒Status⇒DAS LP/WP)
    Tap the WRITE button to write the .cfg file to the disk.
    Verify that the value of disk space used increases (Control ⇒Status).
15. **DAS status** (Control ⇒Status)
    Acq: Start On / Off - NOTE Acquisition MUST be ON to get data
    Events: _____ RAM: _____ of _____
    *Disk 1: _____ of _____ Disk 2: _____ of _____
    Temp: _____ Power: Input _____ Bkup chg:_____
    Ch: _____ DS: _____
    Firmware Version_____ (Control⇒Satus⇒Versions)
16. **Check Mass Position Offsets** (Control ⇒Aux. Control ⇒Aux Channel)

Mass position must be within +1.5V to –1.5V

Ch 1: _____ V
Ch 2: _____ V
Ch 3: _____ V

Make sure all plugs and connections have been replaced.

IF POWER IS BAD

POWER: Check Power ONLY IF the station has Power Problems
NOTE: The following tests should be performed with the solar panels in full sun. Check solar panel is clean.
1. Disconnect the solar panel.
2. Test output of the batteries (12.5 – 13 Volts DC
WARNING: DO NOT test the current of the battery)
3. Test the voltage out of the power box to the DAS from pin A+ to C-. (Same as battery voltage measured above).
! Make sure the polarity is correct
4. Test the solar panel output (18 Volts DC)
7. Connect the solar panels to power box
8. Test the voltage at the battery terminals (Greater than the battery voltage measured above).

Comments: