

# ISFS Entries



[Licor affected by dew](#)

[Steve Oncley](#) posted on Jun 11, 2009

I haven't exhaustively looked at all cases, but it appears that, at least for the "bad data" case 05:10-06:10 AM on 5 June at Platteville, dew formation caused the bad h2o and presumably co2 values. During this case, RH is at least 97% and w'h2o' fluxes during the preceeding hour are negative (water deposition to the surface). I note that this occurred despite the Li7500 being mounted at 45 degrees upside down, but presumably dew on the mirror also would affect the signal....

- [isfs](#)
- [licor7500](#)



[Bad RH.6m.mfs above 97%](#)

[Gordon Maclean](#) posted on Jun 09, 2009

RH.6m at Marshall (TRH010) looks wrong from Jun 9 06:10 to 07:30 MDT. [http://www.eol.ucar.edu/isf/projects/ASP09/isff/qcdata/plots/20090609/trh\\_20090609.png](http://www.eol.ucar.edu/isf/projects/ASP09/isff/qcdata/plots/20090609/trh_20090609.png)

- [isfs](#)
- [marshall](#)
- [trh](#)



[Platteville TearDown](#)

[John Militzer](#) posted on Jun 08, 2009

8June09 ~10:00MDT Platteville turned off, station returned to Boulder.

- [isfs](#)
- [platteville](#)



[Restarted Marshall adam](#)

[Gordon Maclean](#) posted on Jun 08, 2009

Since Jun 7 19:05 13:05 MDT Marshall adam was only recording the 2 inputs on the viper serial ports, not the emerald serial card. This is the PC104 interrupt issue that I thought I had fixed.... As a result we only have data from the 2m sonic (and GPS) from that time until the system was remotely soft-rebooted on Jun 8 09:04 MDT. It stayed up for 10 minutes and then hung. It was hard-booted at 10:00.

- [isfs](#)
- [marshall](#)
- [data-system](#)



[PV Data Retrieved, Echo Positive](#)

[John Militzer](#) posted on Jun 07, 2009

7June09 ~16:15MDT Swapped Pocketec. The area had some rain this afternoon and the Echo is reading ~34 now. Everything else seemed reasonable. Data was uploaded in Boulder via porter..... porter:/h/eol/militzer-> copy\_pv\_usbdisk.sh usbdisk disk not mounted. Trying to mount /media/usbdisk.....

- [isfs](#)
- [platteville](#)



[Rlw.in fixed](#)

[Steve Oncley](#) posted on Jun 06, 2009

For two periods of an hour or more today, Rpile.in.mfs went to zero. After trying to reseal connectors/wires in the logger box, the fix was simply to cut and restrip the wires inside the logger for the 2L/2H inputs.

- [isfs](#)
- [marshall](#)
- [radiation](#)



#### [PV Data Retrieved, Echo still negative](#)

[John Militzer](#) posted on Jun 06, 2009

6June09 ~16:15MDT Swapped Pocketecs. Gordon merged. Echo probe was reading ~ -67, tried the other probe more recently installed in the ground by CG, and it also was reading about the same. Left the original one connected to logger. Probably will be small spike in data from short swap. Other data appeared reasonable from quick look.

- [isfs](#)
- [platteville](#)
- [soil](#)



#### [Light rain started now](#)

[Steve Oncley](#) posted on Jun 05, 2009

now is 1731 MDT. We had a trace of sprinkles perhaps 1.5 hours ago as well. This is enough to hear on the roof.

- [isfs](#)
- [marshall](#)
- [weather](#)



#### [radiometers cleaned about 1540](#)

[Steve Oncley](#) posted on Jun 05, 2009

Rsw.out was clearly dirty (and appears to have a few specks of something inside the dome as well). Rnet might have had a bit of dirt as well. Accessed the sensors by standing on the (only) folding chair from the trailer. This done 1538-1544 starting with Rlw.out and ending with Rnet.

- [isfs](#)
- [marshall](#)
- [radiation](#)



#### [CO2 from birds?](#)

[Steve Oncley](#) posted on Jun 05, 2009

We've seen some spikes in the Marshall CO2 data at 10m (also some at 4m). We've also observed a raptor using the 10m boom as a perch. (I tried to take a few photos.) I guess it is possible that the Licor is measuring raptor breath! I update the bird time when I download my photos.

- [licor7500](#)
- [isfs](#)
- [marshall](#)



#### [Mars 2m TRH installed](#)

[John Militzer](#) posted on Jun 04, 2009

4June09 ~14:45MDT TRH #3 installed at 2m height.

- [isfs](#)
- [trh](#)
- [marshall](#)



#### [Mars Sensor Heights](#)

[John Militzer](#) posted on Jun 04, 2009

4June09 CG measured the top of the booms for: Nominal Height Meas. CSAT Meas. TRH 2m 1.98 2.3 4m 4.02 4.07 6m 5.89 6.32 8m 8.0 8.45 10m 10.2 10.61

- [isfs](#)
- [marshall](#)
- [sonic](#)
- [trh](#)



#### [Platteville Echo Probe Swapped. Logger Coefs for both sites](#)

[John Militzer](#) posted on Jun 04, 2009

4June09 ~10:15-11:15MDT Site Visit Platteville Echo Probe swapped (these have no serial numbers): Previous unit was reporting negative values per TH. From raw file data from 'yesterday' was 182,1,12.27,0,15.173,0,-56.044,-4.6824,-2.2093,83191,8.9592,8.844,9.7848,9.6367,13.517,39.416,435.39,1.2594,0,0,-9999 where vqsoil,qsoil is '435.29,1.2594' Note the rsw values appear odd in that.... New unit per rserial is reporting messages like this: 182,1,13.24,0,464.1,0,-47.208,23.373,820.48,127.9,...

- [isfs](#)
- [platteville](#)
- [marshall](#)
- [soil](#)



#### [Platteville Visit, data retrieval, Q7 swapped](#)

[John Militzer](#) posted on Jun 04, 2009

4June09 ~10:15-11:15MDT Pocketec Swapped. Brought unit taken back for data merge. Photos taken. Sensor serial numbers confirmed. Q7 swapped: We had installed the 'wrong' Rnet for the coefficients in the logger. Out=Q94197 In=Q99259

- [isfs](#)
- [platteville](#)
- [data-system](#)
- [radiation](#)



#### [Rlw.in 'fixed'](#)

[John Militzer](#) posted on Jun 03, 2009

3June06 ~10:30MDT Rlw.in had been bad. Found loose ground wire on the excitation line. Twiddled/secured wires. Now working Rlw.in Rpile reading ~ -20w/m2 with voltage ~ .2mV Rlw.out Rpile reading ~ 20w/m2 with voltage ~ .2mV

- [marshall](#)
- [isfs](#)
- [radiation](#)



#### [TRH Swaps - Issue at Mars](#)

[John Militzer](#) posted on Jun 03, 2009

3June06 ~10:15MDT 4m TRH swapped because it'd been bad (See GM's note) sn-out=13 sn-in=008 It was generating continuous spurious interrupts. Only the micro-chip 'wand' was replaced, not the shield. 6m TRH removed s/n15 because of bad 'shield' (dc-dc, sio, etc). Swapped 2m TRH up to 6m to avoid climbing later: sn10 is now at 6m Level TRH S/N Notes 2 Will be replaced later today..... 4 8 Installed today 6 10 Swapped in from 2m today 8 5 10 14

- [marshall](#)
- [trh](#)
- [isfs](#)



#### [Licor moved from 2m to 4m](#)

[John Militzer](#) posted on Jun 03, 2009

3June09 ~10:15MDT The Li7500 that was at 2m was raised to 4m per request by SO/TH. It has the same serial port in xml config., but the height qualifier was changed from 2m to 4m also. NOTE: Retained the mounting arrangement so we moved the sonic from 2 to 4 along with it, and thus the 4m sonic to 2m as well. Will change the serial number entry for this

- [licor7500](#)
- [isfs](#)
- [marshall](#)



#### [RMY Boom Angle - PV](#)

[John Militzer](#) posted on Jun 02, 2009

Recall setting 'ZN' on boom worked ok. Boom Angle setup: BD359 as I recall....need to confirm KK's reading when he shot it. Confirmed readings consistent with observed conditions, and manually rotating vane while mast was lowered.

- [platteville](#)
- [isfs](#)



#### [6m RH bad above 50%](#)

[Gordon Maclean](#) posted on Jun 01, 2009

The 6m RH deviates from the others when the RH is above 50 %. 4m TRH still not reporting. [http://www.eol.ucar.edu/isf/projects/ASP09/isff/qcdata/plots/20090601/trh\\_20090601.png](http://www.eol.ucar.edu/isf/projects/ASP09/isff/qcdata/plots/20090601/trh_20090601.png)

- [isfs](#)
- [marshall](#)
- [trh](#)



#### [TRH.4m down at Marshall](#)

[Gordon Maclean](#) posted on May 30, 2009

4m TRH at Marshall started generating intermittent data starting around 00:00 LT, May 30, and appears to have quit altogether by 04:00. If you let it run long enough, data\_stats shows a record length of 8191 bytes which indicates that the data system is not finding a terminator (newline) in the data: `marshall:/dev/ttyS11 2 410 1 2009 06 01 17:18:06.062 06 01 17:18:06.062 nan 0.000 0....`

- [marshall](#)
- [isfs](#)
- [trh](#)



#### [Sonic Boom Angles](#)

[John Militzer](#) posted on May 29, 2009

29May09 Kurt measured the booms with the data-scope today. These are magnetic readings with deviation setup as ..... GM: added true-north angles using declination shown below and assuming data-scope was not correcting for declination. Site Ht BoomAngle BoomAngle(true) Vazimuth (Boom-90)  
Platteville 4m 88.9 (KK) 91.5 (Rudy) 90.2 + 9 = 99.2 9.2 Marshall 2m 16.4 16.4 + 9 = 25.4 295.4 4m 16.0 25 295 6m 15.7 24.7 294.7 8m 16.2 25.2 295.2 10m 18....

- [isfs](#)
- [sonic](#)



#### [Q7 Installed at Platteville](#)

[John Militzer](#) posted on May 29, 2009

29May09 ~14:00-14:50MDT Visit by KK/Rudy -Q7 / Rnet installed. Verified data looked reasonable - Local Storage Media swapped to check back at FL - CSAT Boom Angle: KK says 88.9, Rudy says 91.5

- [isfs](#)
- [platteville](#)
- [radiation](#)



#### [Rlw.in at Mars](#)

[John Militzer](#) posted on May 29, 2009

29May09 The Rlw.in has been too warm for the last couple of days, producing erroneous looking data for rnet versus rsum. Kurt cleaned the domes but did not see anything obviously unusual about the sensors or installation. Keep-an-eye-on-it.

- [radiation](#)
- [marshall](#)
- [isfs](#)



#### [TRH swap at Mars](#)

[John Militzer](#) posted on May 29, 2009

29May09 ~12:00 MDT 10m TRH's RH has been bad since it was installed yesterday. S/N16. Note SteveS mentioned he didn't get the raw data for the rh on this sensor, so it needs to be calculated and reprogrammed. For now we're doing the following: 2m TRH moved to 10m. S/N14 10m TRH s/n16 removed and swapped with TRH s/n10 Current Positions of sensors as of 29May09-pm Level TRH S/N Notes 2 10 (was 14) Keep an eye on it....

- [isfs](#)
- [trh](#)
- [marshall](#)



#### [sensor serial numbers](#)

[Gordon Maclean](#) posted on May 27, 2009

Sonic serial numbers. The marshall sonics were verified by checking /var/log/isfs/marshall\_ASP09\_csats3.log on the marshall adam. site port height serial # marshall ttyS1 2m 1120 0673 (3June on) marshall ttyS10 4m 0673 1120 (3June on) marshall ttyS12 6m 0536 marshall ttyS14 8m 1124 marshall ttyS16 10m 0672 platteville ttyS10 4m 0537 Licor 7500 serial numbers,...

- [isfs](#)
- [marshall](#)
- [sonics](#)
- [licor7500](#)
- [platteville](#)



[IP address of ISFS base system](#)

[Gordon Maclean](#) posted on May 27, 2009

The "aster" laptop in the ISFS trailer is accessible from inside the UCAR firewall at 128.117.81.3 ssh aster@128.117.81.3 From there one can ssh to the adam: ssh root@marshall The adam is on the 802.11 (wifi) subnet at 192.168.12.115.

- [isfs](#)
- [network](#)
- [marshall](#)