

BS03 Tue
Post-M265 Day 01

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MLML RADIOMETRIC CALIBRATION LOG

EXPERIMENT Post-L274 LOCATION P35 Gnt
DATE 28 Nov 2018 OBSERVERS MF
INSTRUMENT BS S/N 03 CONFIG 005
COLLECTOR Δ mux position fiber DISTANCE Jig
SOURCE LED FLite S/N CONFIG
PWR SUPPLY batts S/N CONFIG
MULTIMETER S/N SHUNT
LAMP VOLTAGE CURRENT
LAMP TIME ON WARMUP NOT MUCH OFF TOTAL

SETUP SKETCH / REMARKS

BS03
trk # 2 = Es
6 = Lt
9 = Lm
13 = Lb

These track numbers are
not right, see note

software = qsg-interactive
1dk/2dk/1dk

WHERE NODE :: DEV : [DIR]

PROCESSED DATE: 28 Nov 2018 BY: MF

Time	Filename	Int Time/Bin Fact or Gain	Shunt Current mA	Lamp Voltage V	Humidity % R.H.	Temp. °C	Remarks
05:28	-60°C TEC						
549	5/12/2018 11:28 001:002	100 sec		trk13			Es MAX Lt ADU = 14.9k
556	003:004	5		trk6			Lt 54k
609	005:006	13		trk9			Lm 50k
619	007:008	100		trk 2			Lb 5k = dark? was dark!
619	TEC = off				59	25	

BS03 Wed
Post-M265 Day 02

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MLML RADIOMETRIC CALIBRATION LOG					
EXPERIMENT	Post-L274		LOCATION	tent P35	
DATE	29 Nov 2018		OBSERVERS	MF	
INSTRUMENT	BS	S/N	03	CONFIG	005
COLLECTOR	Es			DISTANCE	50cm
SOURCE	655000	S/N		CONFIG	F601(C3)
PWR SUPPLY	6030A	S/N		CONFIG	
MULTIMETER	34970A	S/N		SHUNT	GS125
LAMP VOLTAGE		CURRENT	8.2		
LAMP TIME	ON	WARMUP	20	OFF	TOTAL
WHERE NODE :: DEV : [DIR]					

SETUP SKETCH / REMARKS	
lamp time Δmin	ISET
ON 05:11	8.179
OFF 6:05 54	
scores sync w/ RS04.002	
PROCESSED DATE: 29 Nov 2018 BY: MF	

Time	Filename	Int Time/Bin Fact or Gain	Shunt Current mA	Lamp Voltage V	Humidity % R.H.	Temp. °C	Remarks	FEL °C
04:51	-60°C TEC=ON							
0536	sg20181129 001:004	2 sec					Es @ same exp time as RS4	
39		5:8	2				2 dk / 4 et / 2 dk	
41		9:12	2					
45		13:14	002	8.2024	50	25	1 dk / 2 et / 1 dk	48.4
48		15:16	200 sec	5026 ADU max @ et1?			" " "	
605	lamp off		10920 ADU max	et2?			All et scores = dark!	
6:07		17:18	200				check putty log	
							2018112901-BS03-putty.log	
							... set shtr 1 = trk 2 = Es OK ✓	
							... test scores @ 2, 10, 100, 200 sec OK ✓	

BS03
Post-M265

Thur
Day 03

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MLML RADIOMETRIC CALIBRATION LOG

EXPERIMENT Post-L274 LOCATION tent @ P35
 DATE 30 Nov 2018 OBSERVERS MF
 INSTRUMENT BS S/N 03 CONFIG 005
 COLLECTOR Es & Lb mux position fiber DISTANCE jig & 50cm
 SOURCE FL & GS5000 S/N CONFIG F601(c3)
 PWR SUPPLY 6030A S/N CONFIG
 MULTIMETER 34970A S/N SHUNT GS125
 LAMP VOLTAGE CURRENT 8.2
 LAMP TIME ON WARMUP 20 OFF TOTAL

SETUP SKETCH / REMARKS

Es seems to be @ trk #13 / shtr #12
 not 02 as last 2 notes!
 LuBot is @ trk #2 / shtr #1
 not 13

Lamp time Amin	FSET
ON 05:39	8.174
OFF 06:16	37

WHERE NODE :: DEV : [DIR]

PROCESSED DATE: 30 Nov 2018 BY: MF

Time	Filename	Int Time/Bin Fact or Gain	Shunt Current mA	Lamp Voltage V	Humidity % R.H.	Temp. °C	Remarks
04:49	-60°C TEC						
05:00	s_d20181130 001:004	4.5 s	2dk/4dt/2dk				Es via LED FL, max
	" 005:008	12 s					Lb " " " max 56k
06:00	" 009:012	30	8.1995	106.93	51	27	Es via F601(c3) MAX ADD 51K
604	" 013:016	30	.1994	.93	52	26	
609	" 017:20	30	.1993	.93	52	26	
616	Lamp off						
616	s_d20181130 021:024	30					some kind cosmic event @ d#23. fits!
630	SHUTDOWN						

FEL
°C

49.5

"

"

Note: FileZilla crashed BS Enet @ 06:20 (probably...) is w/ asg-interactive running via putty window trouble w/ restart = com & TEC = on! had to power cycle

BS 03 Mon
Post-M265 Day 04 Ln#1

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MLML RADIOMETRIC CALIBRATION LOG				
EXPERIMENT	Post-L274		LOCATION	P35 tent
DATE	04 Dec 2018	OBSERVERS	MF, SM	
INSTRUMENT	BS	S/N	03	CONFIG 005
COLLECTOR	Lu			DISTANCE 6 in
	mux	position	fiber	
SOURCE	0L425	S/N		CONFIG
PWR SUPPLY	0L455	S/N		CONFIG
MULTIMETER	34970A	S/N		SHUNT
LAMP VOLTAGE		CURRENT	6.6	
LAMP TIME	ON	WARMUP	20	OFF TOTAL
WHERE NODE::DEV:[DIR]				

SETUP SKETCH / REMARKS	Int	phl
Lamp time hrs		
ON 05:03 466.1	6.587	
OF 5:43 466.8		
ON 601	6.590	
OF 701 467.8		
ON 714	6.590	
OF 747 468.4		

Sync scans w/ RS04 ... by hand ... asg-interactive

PROCESSED DATE: 04 Dec 2018 BY: MF = chk only

Time	Filename	Int Time/Bin Fact or Gain	Shunt Current mA	Lamp Voltage	Humidity % R.H.	Temp. °C	Remarks	Lamp Vdc
04:48	-60° TEC=ON			PD FL				
05:23	sp20181204 01:004	40 sec	6.6007	22.40	51	25	Lb@trk#2, 2dk/4et/2dk	7.361
30	5 8		1.6009	22.40	51	25		7.362
36	9 12		1.6006	22.40	51	25		7.364
6 40	13:16	43 sec	6.5994	22.41	52	25	Lm@trk#9	7.371
47	17:20		6.5988	22.40				7.371
54	21:24		6.5992	22.41	54	25		7.372
7 34	25:28	16 sec	6.6008	22.47	56	24	Lt@trk#6 sync w/ RS	7.373
38	29 32		1.6010	22.47				7.375
42	33 36		1.6006	22.48				7.375

Tue
BS03 | Day 05

MLML RADIOMETRIC CALIBRATION LOG				
EXPERIMENT	Post-L274		LOCATION	tent @ P35
DATE	05 Dec 2018	OBSERVERS	MF	
INSTRUMENT	BS	S/N	03	CONFIG 005
COLLECTOR	Es			DISTANCE bare lamp + shield
	mux	position	fiber	
SOURCE	Oriel 2 lamp	S/N		CONFIG
PWR SUPPLY	Oriel 6060	S/N		CONFIG
MULTIMETER	FLUKE	S/N		SHUNT
LAMP VOLTAGE		CURRENT		
LAMP TIME	ON	WARMUP	OFF	TOTAL
WHERE NODE :: DEV : [DIR]				

SETUP SKETCH / REMARKS

PROCESSED DATE: 05 Dec 2018 BY: MF = chk only

Time	Filename	Int Time/Bin Fact or Gain	Shunt Current mA	Lamp Voltage V	Humidity % R.H.	Temp. °C	Remarks
05:11	-60°C TEC = ON						
05:32	20181205 01:04	1.2 sec		-100 mV	50	26	BS Es @ tick # 13 via HgA
5:41	05:08	0.25		-100			Es Ne
5:49	9:12	20		lamp back from collector ~ 5 in			Ne
	PAU				54	24	

BS Day 06

MLML RADIOMETRIC CALIBRATION LOG

EXPERIMENT Post-L274 LOCATION tent
DATE 06 Dec 2018 OBSERVERS MF
INSTRUMENT BS S/N 03 CONFIG 005
COLLECTOR Lu mux position fiber DISTANCE 12 in Spect. sphere
SOURCE Oriel 2 S/N CONFIG
PWR SUPPLY Oriel S/N CONFIG
MULTIMETER FLUKE S/N SHUNT
LAMP VOLTAGE CURRENT
LAMP TIME ON WARMUP OFF TOTAL

SETUP SKETCH / REMARKS

BS03 LuT@tbl #6
LuBe #2

WHERE NODE :: DEV : [DIR]

PROCESSED DATE: 05 Dec 2018 BY: MF = chz

Time	Filename	Int Time/Bin Fact or Gain	Shunt Current	Lamp Voltage	Humidity	Temp.	Remarks
			mA	V	% R.H.	°C	
03:58	sp20181206001004	22 dec		-100mV	43	26	Ar LuTop
406		5:8 0.26		-100			HgA
410		9:12 0.05 = SATURA		-100			Ne
415		13 16 10		-120			Kr
427		17 20 80		-140	48	24	Xe
0455		21:24 0.36		+100mV			HgA LuBot
501		25:28 0.06		+100	49	24	Ne "

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MLML RADIOMETRIC CALIBRATION LOG				
EXPERIMENT	Post-2274		LOCATION tent	
DATE	07 Dec 2018	OBSERVERS	MF	
INSTRUMENT	BS	S/N	03	CONFIG 005
COLLECTOR	LuT			DISTANCE Jiggle
SOURCE	NIST OL455	S/N		CONFIG
PWR SUPPLY	OL400-C	S/N		CONFIG
MULTIMETER	NOPPE	S/N		SHUNT
LAMP VOLTAGE		CURRENT	6.000 A dc	
LAMP TIME	ON	WARMUP	20min	OFF TOTAL
WHERE NODE::DEV:[DIR]				

SETUP SKETCH / REMARKS
lamp time Δmin
ON 03:45
OFF 6:51
LuT@trk#6
OL PD log = 2018120701_OL455log.txt
PROCESSED DATE: 07 Dec 2018 BY: MF = chk

Time	Filename	Int Time/Bin Fact or Gain	Shunt Current	Lamp Voltage	Humidity	Temp.	Remarks
03:25	-60°C TEC = ON		PD mA A	V	% R.H.	°C	
	lamp off		.0003e-10				2dk/4lt/2dk
04:21	5:20:18/20:07:00/1:02:00	1 sec	.4373e-5	15.47	47	26	~53.7k ADU max @ lt scans
429	21:24	0.05s	.4371				9.4k
430	25:28/29:32/33:36	.07/.1/.2	.4370				BRITE
434	37:40	1	.4370				53.4k
436	41:44/45:48/49:52	.3/.5/.7	.4370e-5				
0440	53:56	1	.4371e-5	15.47	49	25	
444	57:60	1	.4683e-6	15.49			9.2k
446	61:64/65:68/69:72	2/3/1	.4685				MID 9.3k @ 1 sec
450	73:76/77:80/81:84	5/7/1	.4687e-6				9.3k @ 1 sec
04:56	85:88	10	.4687e-6	15.49			55. k

...cont... OVER...

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MLML RADIOMETRIC CALIBRATION LOG

EXPERIMENT Post-L274 LOCATION tent
DATE 07 Dec 2018 OBSERVERS MF
INSTRUMENT BS S/N 03 CONFIG 005
COLLECTOR LuT mux position fiber DISTANCE Jiggly
SOURCE OL455-18U S/N CONFIG
PWR SUPPLY OL400-C S/N CONFIG
MULTIMETER S/N SHUNT
LAMP VOLTAGE CURRENT 6.000
LAMP TIME ON WARMUP 20 min OFF TOTAL

WHERE NODE :: DEV : [DIR]

SETUP SKETCH / REMARKS

$1.57e-7$ or $1.57e-8$
 $3) \begin{array}{r} 47 \\ 3 \\ \hline 17 \\ 15 \\ \hline 20 \end{array}$ $60) \begin{array}{r} 20 \\ 1200 \end{array}$ $60) \begin{array}{r} 6.66 \\ 400 \\ 36 \\ \hline 40 \end{array}$
~~BS drk #101 = bogus fits~~ $\rightarrow$ ok on BS re-FTP

PROCESSED DATE: 07 Dec 2018 BY: MF = chlx

A 7 min
A 23 min
A 21 min
Σ 51 min

Time	Filename	Int Time/Bin Fact or Gain	Shunt Current PD mA A	Lamp Voltage V	Humidity % R.H.	Temp. °C	Remarks
05:06	sd20181207 89:42	10 sec	.4746e-7	15.49	50	25	~9.2k ADU max 14.2/19.4/9.2k DIM 29.7/9.1/40.0k 1dk/2et/1dk 9.1/55.8k
508	93:96/97:100/101:104	20/30/10	.4746				
520	105:108/109:112/113:116	50/10/70	.4745	15.50	50	25	
541	117:120/121:122	10/100	.4740e-7	15.49			
600	123:124	100	1.5607e-7	15.49	52	25	MORE DIM 1dk/2et/1dk 21.0k 38.1/20.9k 55.3k
607	125:126/127:128	200/100	1.5601	15.49	53	25	
630	129:130	300	1.5528e-7	15.50	53	25	
651	TEC off		.0005e-10				