80min cyles start at: ~~21:25, 23:25, 01:25, 03:25, 05:25, 07:25~~

MEASUREMENT LOG

LNO TEMP 4

Date(s) on this sheet: 28-29/3/15.					Temperature: ~ -23°C to -20°C
Date/ Time	Channel	COP row(s)	TC(20) Start	TC(20) Stop	Description
28/3/15 21:40 (late)	SO/LNO NADIR	GEN= 190 SCI= 3919	20	2480	→ 41 minutes (wait 42) → SAME AS LNO_order_stepping_IS_320_ref
	UVIS	SCI= (27)	10	910	wrong. T_{BB}=150°C Blackbody In Air
↓ +42 minutes ↓ 22:22	SO/LNO OCC	GEN=(32) SCI=(2829 & 11)	20	2360	→ 39 minutes (wait 40)
	UVIS	SCI= (27)	300	2280	wrong. IGNORE ALL DATA SO+UVIS LNO GOOD!
23:34	SO/LNO NADIR	GEN= 190 SCI= 3919	20	2480	LNO_order_stepping_IS_320_ref BB NOT IN POSITION AT START!
↓ 00:16 29/3/15	UVIS	SCI= (2)	10	2470	1 second IT IGNORE N_2 PURGE ON
	SO/LNO OCC	GEN= 26 SCI= 3379	20	2360	SO_Int stepping_104-127.
	UVIS	SCI= 272	600	2360	UVIS full frame IT=10s.
01:26	SO/LNO	GEN= 190 SCI= 3919	20	2480	T_{BB}=130°C. Order_stepping_IS320_ref
	UVIS	SCI= (2)	10	2470	IGNORE
DIDN'T RUN	SO/LNO	GEN= 26 SCI= 3379	20	2360	SO_Int stepping_104_127 ← DIDN'T RUN ↳ CLOCKS CHANGED!!
	UVIS	SCI= 272	600	2360	UVIS full frame IT=10s.
03:25 (+1hr inc.) → ended	SO/LNO	GEN=32 SCI=2829/11	20	920	
	UVIS 03:45 (on schedule)	SCI=27	10	910	RAN FC_SO_UVIS to try to account for early finish of previous run.
04:25 (+1hr inc.) ↓ ~~+42 minutes~~ 05:07	SO/LNO	GEN= 190 SCI= 3920	20	2480	LNO_order_stepping_IS_640_ref. T_{BB}=150°C
	UVIS	SCI= (2)	10	2470	IGNORE
	SO/LNO	GEN= 32 SCI= 3379	20	2360	SO_Int stepping_128_151
	UVIS	SCI= 272	600	2360	UVIS full frame 10s.

SCRIPT TESTING. TBAL_CALIB.

Could go to -40°C.

MEASUREMENT LOG

Date(s) on this sheet: 29/3/15					Temperature: TBAL
Date/ Time	Channel	COP row(s)	TC(20) Start	TC(20) Stop	Description
06:25 29/3/15	SO/LNO	GEN= 190 SCI= 3921	20	2480	LNO_order_stepping_1S_1280_nof T_B = 150°C
	UVIS	SCI= (2)	10	2480	IGNORE
	SO/LNO	GEN= 38 SCI= 3379	20	2360	SO_Int stepping_152-170S
	UVIS	SCI= 272	600	2360	UVIS full frame 10s IT
08:25	SO/LNO	GEN= 190 SCI= 3921	20	2480	LNO_order_stepping_1S_1280_nof T_B = 20°C (Background)
	UVIS	SCI= (2)	10	2480	IGNORE
	SO/LNO	GEN= 20 SCI= 3379	20	2360	SO_Int stepping_80-103
	UVIS	SCI= 272	600	2360	UVIS full frame 10s IT.
10:25 (3)	SO/LNO	GEN= 190 SCI= 3920	20	2480	640 ms T_B = 130°C N_2 purge
	UVIS	SCI= (2)	10	2480	
	SO/LNO	GEN= 32 SCI= 3379	20	2360	
	UVIS	SCI= 272	600	2360	
12:25	SO/LNO	GEN= 190 SCI= 3919	20	2480	320 ms T_B = 130C N_2 purge
	UVIS	SCI= 2	10	2480	
	SO/LNO	GEN= 26 SCI= 3379	20	2360	
	UVIS	SCI= 272	600	2360	
14:30	SO/LNO	GEN= 190 SCI= 3321	20	2480	1280 ms T_B = 130C N_2 purge
	UVIS	SCI= 2	10	2480	

TBAL

MEASUREMENT LOG

Date(s) on this sheet: 29/3/15					Temperature: ~-15 °C
Date/ Time	Channel	COP row(s)	TC(20) Start	TC(20) Stop	Description
	SO/LNO UVIS	GEN= 20 SCI= 3379 SCI= 272	20 600	2360 2360	TBAL
16:30	SO/LNO UVIS	GEN= 150 SCI= 3921 SCI= 2	20 10	2480 2480	T_B = 150°C STOPPED EARLY 1280 ms valid starts
	SO/LNO UVIS	GEN= 38 SCI= ~~3379~~ SCI= 272	20 600	2360 2360	TBAL Stopped @ 17:00
	SO/LNO UVIS	GEN= SCI= SCI=			→ FUNCTIONAL CHECK. TBAL ENDED.
18:56	SO/LNO UVIS	GEN= ~~207~~ 207 SCI= 3538 SCI=	20	860	16 x 100 ms (upturn) LNO_Entrotaping - global - 16 x 100 ms (strange spectra at the beginning)
19:11	SO/LNO UVIS	GEN= 207 SCI= 3538 SCI=	20	860	idem ↑ BAD PIXELS Dark everywhere?
19:27	SO/LNO UVIS	GEN= SCI= idl SCI=	id	id	idem
19:44	SO/LNO UVIS	GEN= SCI= SCI=			idem
20:33	SO/LNO UVIS	GEN= 160 SCI= 3911 SCI=	20	1160	CH_4 all No N_2 purge LNO_order_stepping_4_160

AIM: -7.5°C → -12.5°C.

MEASUREMENT LOG

Date(s) on this sheet: 29-30/3/15					Temperature: ~10°C
Date/ Time	Channel	COP row(s)	TC(20) Start	TC(20) Stop	Description
29/3/15 20:55	SO/LNO UVIS	GEN= 160 SCI= 3911 SCI=	20	1160	CO cell order stepping No N_2 purge LNO_order_stepping_4_160.
21:46.	SO/LNO UVIS	GEN=160 SCI= 3911 SCI=	20	1160	CaH_2 cell order stepping NO PURGE → N_2 OFF!
	SO/LNO UVIS	~~GEN=~~ ~~SCI=~~ ~~SCI=~~			SHROUDS CHANGED TO -100°C (-200°C Wood) (NOMAD @ ~-10°C).
22:49	SO/LNO UVIS	GEN= 160 SCI= 3911 SCI=	20	1160	CaH_2 cell LNO_order_stepping4_160 N_2 on
23:10 wait	SO/LNO UVIS	GEN= 160 SCI= 3911 SCI=	20	1160	CO_2 cell LNO_order_stepping4_160
00:31	SO/LNO UVIS	GEN= 160 SCI= 3911 SCI=	20	1160	N_2 cell LNO_order_stepping4_160
00:57	SO/LNO UVIS	GEN= 201 SCI= 3538 SCI=	20	860	LNO Detector Thermal Saturation LNO_Intstepping_8-31
00:13	SO/LNO UVIS	GEN=202 SCI= 3538 SCI=	20	860	LNO_Intstepping_32-55
01:29	SO/LNO UVIS	GEN=203 SCI= 3538 ~~SCI=~~	20	860	LNO_Intstepping_56-79

MEASUREMENT LOG

Date(s) on this sheet: 30/3/15.					Temperature: ~-10°C
Date/ Time	Channel	COP row(s)	TC(20) Start	TC(20) Stop	Description
01:46	SO/LNO UVIS	GEN= 204 SCI= 3538 SCI=	20	860	LNO_Intstepping_80-103
02:01	SO/LNO UVIS	GEN= 205 SCI= 3538 SCI=	20	860	LNO_Intstepping_104-127
~~wait~~ 03:02	SO/LNO UVIS	GEN= 206 SCI= 3538 ~~SCI=~~	20	860	LNO Int stepping_128-151
03:21	SO/LNO UVIS	GEN= 207 SCI= " SCI=	"	"	" 152-175
03:35.	SO/LNO UVIS	GEN= 208 SCI= " SCI=	"	"	" 176-199
03:51	SO/LNO UVIS	GEN= 209 SCI= " SCI=	"	"	" 200-223
04:06.	SO/LNO UVIS	GEN= 210 SCI= " SCI=	"	"	" 224-247.
04:23 ~~wait~~	SO/LNO ~~UVIS~~	GEN= 160 SCI= 3911. ~~SCI=~~	20	1160	LNO order_stepping4_160 CH4 cell w/ N2 purge
06:09	SO/LNO UVIS	GEN= 190 SCI= 3920 ~~SCI=~~	20	2480	LNO_order_stepping15_640. TBB= 110°C w/ N2 purge.

MEASUREMENT LOG

Date(s) on this sheet: 30/3/15					Temperature: ~ -10°C
Date/ Time	Channel	COP row(s)	TC(20) Start	TC(20) Stop	Description
06:56	SO/LNO	GEN=190 SCI=3924	20	2480	LNO_order_stepping_IS_1280_ref
wait	UVIS	SCI=			T_{BB} = 110°C w/ N_2 purge.
09:48	SO/LNO	GEN=160 SCI=3952	20	1700	LNO_miniscan_CH4_17830
	UVIS	SCI=			CH_4 cell + N_2 purge
10:18	SO/LNO	GEN=160 SCI=3953	20	1700	" — 18340
	UVIS	SCI=			CH_4 cell N_2 purge
10:48	SO/LNO	GEN=160 SCI=3954	20	1700	" — 18850
	UVIS	SCI=			CH_4 cell N_2 purge
11:20	SO/LNO	GEN=16 SCI=3955	20	1700	" — 19360
wait	UVIS	SCI=			CH_4 cell N_2 purge
13:33	SO/LNO	GEN=160 SCI=3956	20	1700	" — C_2H_2 — 19870
	UVIS	SCI=			C_2H_2 cell N_2 purge
14:04	SO/LNO	GEN=160 SCI=3957	20	1700	— C_2H_2 — 20380
	UVIS	SCI=			C_2H_2 cell N_2 purge
14:33	SO/LNO	GEN=160 SCI=3958	20	1700	— C_2H_2 — 20890
	UVIS	SCI=			C_2H_2 cell N_2 purge
15:03	SO/LNO	GEN=160 SCI=3960	20	1700	— CO_2 — 21910
	UVIS	SCI=			CO_2 cell N_2 purge

SHROUDS -100 → -20 → -80 → -60 UNTIL NOMAD.

LNO STABILISATION AROUND -10°C

MEASUREMENT LOG

Date(s) on this sheet: 30/3/15					Temperature: −10°C
Date/ Time	Channel	COP row(s)	TC(20) Start	TC(20) Stop	Description
15:35	SO/LNO UVIS	GEN= 160 SCI= 3961 SCI=	20	1700	— CO_2 — 22420 CO_2 cell N_2 purge
17:30	SO/LNO UVIS	GEN= 160 SCI= 3962 SCI=	20	1700	— CO_2 — 22930 CO_2 cell N_2 purge
18:02	SO/LNO UVIS	GEN= 160 SCI= 3963 SCI=	20	1700	— CO_2 — 23440 CO_2 cell
18:32	SO/LNO UVIS	GEN= 160 SCI= 3964 SCI=	20	1700	— CO_2 — 23950 CO_2 cell N_2 purge
19:01	SO/LNO UVIS	GEN= 160 SCI= 3965 SCI=	20	1700	— CO_2 — 24460 CO_2 cell N_2 purge
19:32 wait	SO/LNO UVIS	GEN= 160 SCI= 3969 SCI=	20	1700	— CO — 26500 CO cell N_2 purge
21:42	SO/LNO UVIS	GEN= 160 SCI= 3970 SCI=	20	1700	CO — 27010 CO cell N_2 purge
22:11	SO/LNO UVIS	GEN= 160 SCI= 3971 SCI=	20	1700	CO — 27520 CO cell N_2 purge
22:45	SO/LNO UVIS	GEN= 180 SCI= 3920 SCI=	20	2480	LNO_order_stepping_15_640_WTop1 T_{BB} = 150 °C

MEASUREMENT LOG

Date(s) on this sheet: 31/3/15					Temperature: ~ -10°C.
Date/ Time	Channel	COP row(s)	TC(20) Start	TC(20) Stop	Description
	SO/LNO UVIS	GEN= 190 SCI= 3910 SCI=			~~2x 80ms — order 210 step 116 — ... LNO_ order - stepping - 15_8 Globar~~
31/3/15. 00:40	SO/LNO UVIS	GEN= 194 SCI= 3920 SCI=	20	2480	LNOorder_stepping_15640_Wtop 2 T88=150°C, N2 purge on
01:23	SO/LNO ~~UVIS~~	GEN= 191 SCI= 416 ~~SCI=~~	20	1280	absorption_lines_orders65 T88=150°C, N2 purge off. box opened.
	SO/LNO UVIS	GEN= SCI= SCI=			UVIS CALIB HERE THEN TBAL START 22:15 31/3/15
31/3/15 22:32	SO/LNO UVIS	GEN= 190 SCI= 3921 SCI= (2)	20	2480	tbal_calib_lno1280_so80-103 1280ms LNO order stepping. N2 purge ON. UVIS? T88 = 150°C
+42mins +38mins	SO/LNO UVIS	GEN= 20 SCI= 3379 SCI= (272)	20	2360	SO Int time stepping WTop = 80. UVIS?
00:29 1/4/15	SO/LNO UVIS	GEN= 190 SCI= 3920 SCI= (2)	20	2480	tbal_calib_lno640_so104-127 640ms LNO order stepping. N2 purge on UVIS IGNORE T88=150°C
+42mins +38mins	SO/LNO UVIS	GEN= 26 SCI= 3379 SCI= (272)	20	2360	SO Int time stepping WTop= 104 IGNORE UVIS
	SO/LNO UVIS	GEN= SCI= SCI=			→ CHANGED TO TEMPERATURE NO.5 LOG NOW.

128-151

LNO TEMPERATURE 5

MEASUREMENT LOG

TBAL

Date(s) on this sheet: 1/4/15					Temperature: ~10°C-20°C
Date/ Time	Channel	COP row(s)	TC(20) Start	TC(20) Stop	Description
					Order stepping 320ms IT.
02:27 1/4/15	SO/LNO	GEN= 190 SCI= 3919	20	2480	tbal_calib_lno320_so128-151 T_{BB}: 150°C No purge on
+42 mins	UVIS	SCI= (2)			IGNORE UVIS.
+38 mins.	SO/LNO	GEN= 32 SCI= 3379	20	2360	SO Int stepping WTop=128.
	UVIS	SCI= (272)			IGNORE UVIS
04:24	SO/LNO	GEN= 190 SCI= 532	20	2480	LNO no ~~sloss~~ test: 500ms order 165 Abs-lins -order 165
	UVIS	SCI= (2)			No Nitrogen IGNORE UVIS
	SO/LNO	GEN= 38 SCI= 3379	20	2360	SO Int stepping WTop=152
	UVIS	SCI= (272)			IGNORE UVIS
06:25	SO/LNO	GEN= 190 SCI= 532/3	20	2480	LNO reference: light + dark 500ms IT order 165.
	UVIS	SCI= (2)			No No purge IGNORE UVIS.
	SO/LNO	GEN= 20 SCI= 3379	20	2360	SO Int stepping WTop=80
	UVIS	SCI= (272)			IGNORE UVIS
08:27.	SO/LNO	GEN= 190 SCI= 3919	20	2480	tbal_calib_lno320_so104-127
	UVIS	SCI= (2)			
	SO/LNO	GEN= 26 SCI= 3379	20	2360.	SO Int stepping WTop=104 GSE stopped answering @ 9:41 → send tbal_calib_lno320_... only so (stopped)
	UVIS	SCI= (272)			
10:25	SO/LNO	GEN= 190 SCI= 3919	20	2480	tbal_calib_lno320_so128-151 104-127
	UVIS	SCI=			done aperis

640
↓
3920

320 → 20
680
2480
600
2460

1 ↑
39.

t3ol_calib_ln320_s0152-175

ln320 _ 5880_103

949 lno640_s0152...

ln1280 _ s0 80

---

functional test
> flight_scripts
→ check_out.bat.

NORAD (5) Check Spawn_station_main → should see (5)
— redundant

NORAD (n) when finished → check Nadir active

MEASUREMENT LOG

$T_{BB} = 150°C$

Date(s) on this sheet: 1/4/15					Temperature: 10-28°C
Date/ Time	Channel	COP row(s)	TC(20) Start	TC(20) Stop	Description
	SO/LNO UVIS	GEN= 26 SCI= 3379 SCI=	2	2360	WTop = 104
12:40	SO/LNO UVIS	GEN= SCI= SCI=			_Calib_ lno320_ so128_ 151
13:24 1 APR 15	SO/LNO UVIS	GEN= SCI= SCI=			WTop=128
14:43	SO/LNO UVIS	GEN= SCI= SCI=			_Calib_ lno 320_ SO 152–175 (maybe not enough N_2 flushing to begin) → 1h N_2 flushing → seems OK
15:26 1 APR 15	SO/LNO UVIS	GEN= SCI= SCI=			WTop = 152 no UVIS meast. [Temp too high → 35C] → proximity board
16:44	SO/LNO UVIS	GEN= SCI= SCI=			– lno 320_ SO 80–103 Added 1 min after LNO precooling 680 → 740
At 26. >1, 06	SO/LNO UVIS	GEN= SCI= SCI=			WTop = 80 no UVIS meast.
18:44	SO/LNO UVIS	GEN= SCI= SCI=			_ Calib_ lno 320_ SO 104–127
	SO/LNO UVIS	GEN= SCI= SCI=			WTop= 104 no UVIS

→ 20:06

_ SO 80 – 103
_ SO 104 – 127
_ SO 128 – 151

add 1 min 680→740

MEASUREMENT LOG

Date(s) on this sheet: 1-2/4/15					Temperature: Tbal → 30°C.
Date/ Time	Channel	COP row(s)	TC(20) Start	TC(20) Stop	Description
1/4/15 20:51	SO/LNO UVIS	GEN= 190 SCI= 3919 SCI= (2)	20	2480	→ Preceding 11mins. tbal_calib_lno320_so128-151 T_{BB} = 150°C.
	SO/LNO UVIS	GEN= 26 SCI= 3379 SCI= (272)	20	2360	
22:43	SO/LNO UVIS	GEN= 190 SCI= 3919 SCI= (2)	20	2480	Preceding 11mins tbal_calib_lno320_so152=175. T_{BB} = 130°C
	SO/LNO UVIS	GEN= 26 SCI= 3379 SCI= (272)	20	2360	
23:25	SO/LNO UVIS	GEN= 32 SCI= 2829/11 SCI= 27			& GEN=183 SCI= 13/2 FUNCTIONAL CHECK. from 20150401_232504. raw SCI=432
00:18	SO/LNO UVIS	GEN= 160 SCI= 3911 SCI=	20	1160	LNO_order_stepping4_160 CH_4 cell. No purge ON.
01:19	SO/LNO UVIS	GEN= SCI= SCI=			CO cell " GLOBAR OFF AT END REPEATED LATER
01:40.	SO/LNO UVIS	GEN= SCI= SCI=			~~C_2H_2 cell.~~ QUIT BEFORE SCIENCE
01:48	SO/LNO UVIS	GEN= 201 SCI= 3538. SCI=	20	860	LNO_int_stepping-8-31 WTop=8

MEASUREMENT LOG

MEASUREMENT LOG

Date(s) on this sheet: 2/4/15					Temperature: 20°C
Date/ Time	Channel	COP row(s)	TC(20) Start	TC(20) Stop	Description
02:10	SO/LNO UVIS	GEN= 202 SCI= 3538 SCI=	20	860	LNO_int stepping -32-55
02:25	SO/LNO UVIS	GEN= 203 SCI= 3538 SCI=	20	860	LNO int stepping -56-79
02:43 wait	SO/LNO UVIS	GEN= 204 SCI= 3538 SCI=	20	860	LNO int stepping -80-103.
03:30	SO/LNO UVIS	GEN= 205 SCI= 3538 SCI=	20	860	-104-127
03:48	SO/LNO UVIS	GEN= 206 SCI= 3539 SCI=	20	860	-128-151
04:06	SO/LNO UVIS	GEN= 207 SCI= 3539 SCI=	20	860	-152-175
04:23	SO/LNO UVIS	GEN= 208 SCI= 3539 SCI=	20	860	-176-199
04:39	SO/LNO UVIS	GEN= 209 SCI= 3539 SCI=	20	860	-200-223
04:54 wait	SO/LNO UVIS	GEN= 210 SCI= 3539 SCI=	20	860	-224-247

MEASUREMENT LOG

Date(s) on this sheet:					Temperature:
Date/ Time	Channel	COP row(s)	TC(20) Start	TC(20) Stop	Description
2/4/15 05:59	SO/LNO UVIS	GEN= 160 SCI= 3911 SCI=	20	1180	LNO_order_stepping_4_160_ref CO_2 cell w/ N_2 purge
06:20	SO/LNO UVIS	GEN= 160 SCI= 3911 SCI=	20	1180	C_2H_2 w/ N_2
06:40	SO/LNO UVIS	GEN= 160 SCI= 3911 SCI=	20	1180	CO_2 w/ N_2
07:00	SO/LNO UVIS	GEN= 160 SCI= 3911 SCI=	20	1180	N_2 w/ N_2 LINES SEEN.
~~wait~~ 07:50	SO/LNO UVIS	GEN= 160 SCI= 3911 SCI=	20	1180	CO_2 repeat w/ more N_2.
2/4	SO/LNO UVIS	GEN= SCI= SCI=			UVIS
13:38	SO/LNO UVIS	GEN= 190 SCI= 3919 SCI=	20	3000	LNO_ order_ stepping_15_320_ref ? No BB, obsn in // to UVIS (dark ...)
	SO/LNO UVIS	GEN= SCI= SCI=			During UVIS Nadir : SO on → SO thermal saturation - COP = 20, 32 or 26
	SO/LNO UVIS	GEN= SCI= SCI=			

MEASUREMENT LOG

Date(s) on this sheet: 2-					Temperature: ~20°C.
Date/ Time	Channel	COP row(s)	TC(20) Start	TC(20) Stop	Description
18:51	SO/LNO ~~UVIS~~	GEN= 153 SCI= 3808 ~~SCI=~~	20	1720	SO Nadir_16810KHz_CH_4 TEST: NO LIGHT SOURCE
19:40	SO/LNO UVIS	GEN= SCI= SCI=			LNO_int stepping_global global 16 x 10ms
19:57 wait	SO/LNO UVIS	GEN= 108 SCI= 3540 SCI=			4 — 26 x 30ms
21:43 + 21:53	SO/LNO UVIS	GEN= 108 SCI= 3540. SCI=	20	860	ii Repeat @ lower temp → LNO temp 145K → stopped & restarted — 26-30ms
22:07	SO/LNO UVIS	GEN= 108 SCI= 3540 SCI=	20	860	Repeat again.
22:23 wait	SO/LNO UVIS	GEN= 160 SCI= 3952 SCI=	20	1720	LNO_miniscan_CH_4_17830 <all> = 5
23:39	SO/LNO UVIS	GEN= 160 SCI= 3953 SCI=	20	1720	LNO_miniscan_CH_4_18340 <all> = 5
00:18	SO/LNO UVIS	GEN= 160 SCI= 3954 SCI=	20	1720	LNO_miniscan_CH_4_18850 <all> = 5
00:50 wait	SO/LNO UVIS	GEN= 160 SCI= 3955 SCI=	20	1720	LNO_miniscan_CH_4_19360 <all> = 5

PAGE _____

179 Ø 16 286 12 9 10
52
48
40

MEASUREMENT LOG

Date(s) on this sheet:					Temperature:
Date/ Time	Channel	COP row(s)	TC(20) Start	TC(20) Stop	Description
02:11 & 02:19 restart	SO/LNO UVIS	GEN= 160 SCI= 3969 SCI=	20	1720	LNO_minimap_CO_26500 <cell> = 4
02:50 stopped @ 03:03 Wait	SO/LNO UVIS	GEN= 160 SCI= 3970 SCI=	20	1720	LNO_minimap_CO_27010 <cell> = 4 Global was making too much
03:25 restarted previous run	SO/LNO UVIS STOP	GEN= 160 SCI= 397 SCI=	20	1710	LNO_minimap_CO_27010 <cell> = 4
	SO/LNO UVIS	GEN= SCI= SCI=			
	SO/LNO UVIS	GEN= SCI= SCI=			
	SO/LNO UVIS	GEN= SCI= SCI=			
	SO/LNO UVIS	GEN= SCI= SCI=			
	SO/LNO UVIS	GEN= SCI= SCI=			
	SO/LNO UVIS	GEN= SCI= SCI=			

SO TEMPERATURE 1 (AIR)
MEASUREMENT LOG

25→30°C.

Date(s) on this sheet: 3/4/15 & 4/4/15. **Temperature:** Room (in air)

Date/ Time	Channel	COP row(s)	TC(20) Start	TC(20) Stop	Description
					80ms IT
3/4/15 15:50	SO/LNO UVIS	GEN= 154 SCI= ~~3810~~ SCI=	20	~~1740~~	SO Mureican_17830kHz_CH4 CH4 cell in air Globar 9A BAD→GLOBAR QBRANCH! FAILED IN MIDDLE
16:15	SO/LNO UVIS	GEN= 154 SCI= ~~3809~~ SCI=	20	~~1740~~	Mureican_17320kHz_CH4 Globar 9A 80ms IT BAD→GLOBAR FAILED.
16:48	SO/LNO UVIS	GEN= 154 SCI= ~~3808~~ SCI=	20	~~1740~~	Mureican_16810kHz_CH4 Globar 9A OK BUT LOW SIGNAL 80ms IT Peak~5000
18:06	SO/LNO UVIS	GEN= 154 SCI= ~~3809~~ SCI=	20	~~1740~~	_17320kHz OK Globar 11A → REALIGNED PEAK ~25,000 80ms IT Peak~8000.
18:36	SO/LNO UVIS	GEN= 154 SCI= ~~3810~~ SCI=	20	~~1740~~	_17830kHz_CH4 Globar 11A 80ms IT BAD? NO Q-BRANCH?
19:10	SO/LNO UVIS	GEN= ~~3826~~ SCI= 119 3354 SCI=	20	1020	Window stepping 16x16 lines. 1s rhythm 20ms IT.
08:43	SO/LNO UVIS	GEN= ~~3826~~ SCI= 3379 SCI=	20	~~1740~~ 850	SO_int-stepping_104-127 with 11A Globar. @25°C 2ms steps SATURATION ~90MS.
08:58	SO/LNO UVIS	GEN= 32 SCI= 3379 SCI=	20	~~1740~~ 850	SO_int-stepping_128-151 with 11A Globar. SATURATION ~80MS @25°C.
09:13	SO/LNO UVIS	GEN= 154 SCI= 3828 SCI=	20	1720	SO Mureican_17830kHz_40ms CH4 Qbranch @40ms IT Globar 11A. No ref. PEAK 27,000. WINDOW TOP TOO LOW→USE COP153. WINDOW=100-148.

100-148.

STOPPED EARLY

4ms.

2ms→90ms.

Window Globar = 100-142

17,500.

MEASUREMENT LOG

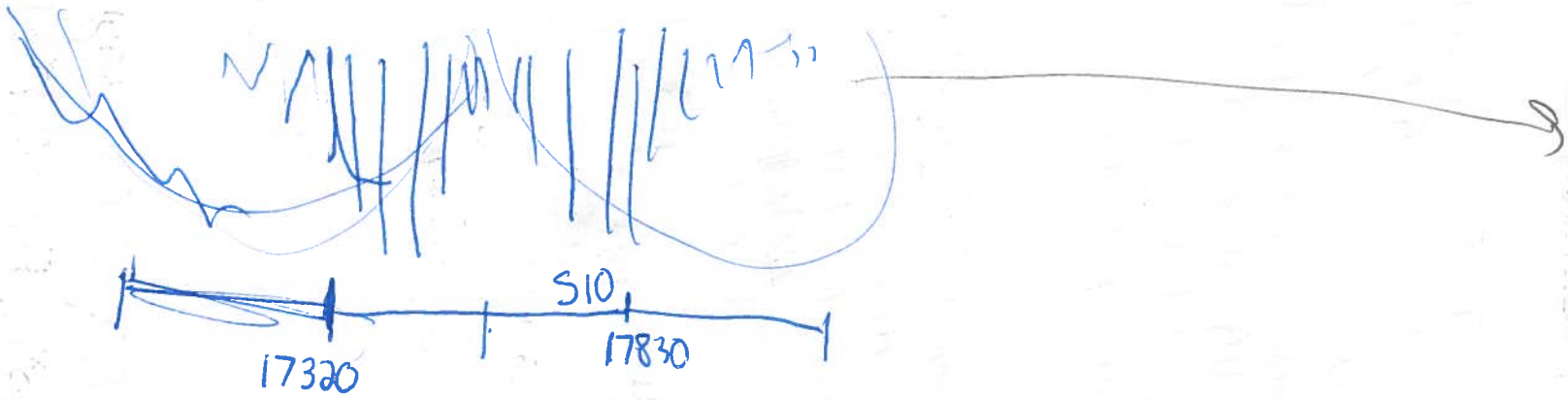
Date(s) on this sheet: 4/4/15 **Temperature:** Room Temperature - 28°C

Date/ Time	Channel	COP row(s)	TC(20) Start	TC(20) Stop	Description
09:29	SO/LNO UVIS	GEN= 153 SCI= 3828 SCI=	20	1720	SO_Miniscan_17830kHz_CH4_40ms CH4 Q-branch. Gilbar IIA. No reference WindowTop=100 Bad 1st packet
10:38	SO/LNO UVIS	GEN= 153 SCI= 3827 SCI=	20	1720	SO_Miniscan_17320kHz_CH4_40ms Gilbar IIA. WTop=100. No ref = Bad 1st packet
11:07	SO/LNO UVIS	GEN= 153 SCI= 3829 SCI=	20	1720	SO_Miniscan_18340kHz_CH4_40ms
11:36	SO/LNO UVIS	GEN= 153 SCI= 3830 SCI=	20	1720	Miniscan_18850kHz_CH4_40ms_ref .20s reference deleted. No bad pkts NO MORE LINES SEEN.
12:37	SO/LNO UVIS	GEN= 153 SCI= 3826 SCI=	20	1720	Miniscan_16810kHz_CH4_40ms_ref CH4 done → CO all in position
13:06.	SO/LNO UVIS	GEN= 153 SCI= 3837 SCI=	20	1720	Miniscan_25990_CO_40ms_ref No lines seen at end.
13:45.	SO/LNO UVIS	GEN= 153 SCI= 3836 SCI=	20	1720	Miniscan_25480_CO_40ms_ref
14:51	SO/LNO UVIS	GEN= 153 SCI= 3835 SCI=	20	1720	Miniscan_24970kHz_CO_40ms_ref
15:21	SO/LNO UVIS	GEN= 26 SCI= 3379 SCI=	20	1120	SO_int stepping_104-127_long GLOBAL FAILED AT START 15:34 + = GOOD.
15:44	SO	GEN=32 SCI=3379	20	1120	SO_int stepping_128-151_long.

25800

3835

25990 → CO → dump 3837



17,900KHz

2KHz

4s ~~rhythm~~

25s

S10

1020. +600

1820 1700