Pagenumber:

LOG SHEET SCIAMACHY CALIBRATION

date/time	description of action	measuremement filename	
1-8-98			
	extra measurement during stable fase of temp.		
16:00	without change of set-up § 2-7b UTD36		
(UTC)	General Nadir + ND filter		
	Analysis : Nadir radiance		
	OU seems ok ; no environment light in ch3 ???		
	RU seems ok : what are the spikes in ch2 ???		
	P1 seems identical with previous step	2-3	31-7-98
	P2 seems identical " " " step	2-3	31-7-98
	Ratio deviates from 1 ~~for channels 3 and 8~~		
	~~zoomed~~ images added ⇒ ΔT		
	channel 2 ⇒ strange !		

Formal Run of Measurement (Measurement ID)

Request for Actual Status		(cross out entries that are **not** requested.)
Request for Modification		(fill in only entries to be modified)
Request for Run	X	(no entries = run based on actual default settings)

Scanner Positions

Azimuth	+45	deg
Elevation	-45	deg

Timeline for each Data Acquisition Period during Measurement

	1	2	3	4	5	6	7	8	9	10
State ID	34									
Repetitions	10									

State Parameters for States used in Timeline (State ID must be given)

Channel	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding
1a	64	1						
1b	64	1						
2b	0	0						
2a	0	0						
3	4	16						
4	2	32						
5	2	32						
6	0.5	64						
7	0.5	64						
8	1	64						
State ID								

Stimuli Settings for Existing Blocks in Measurement

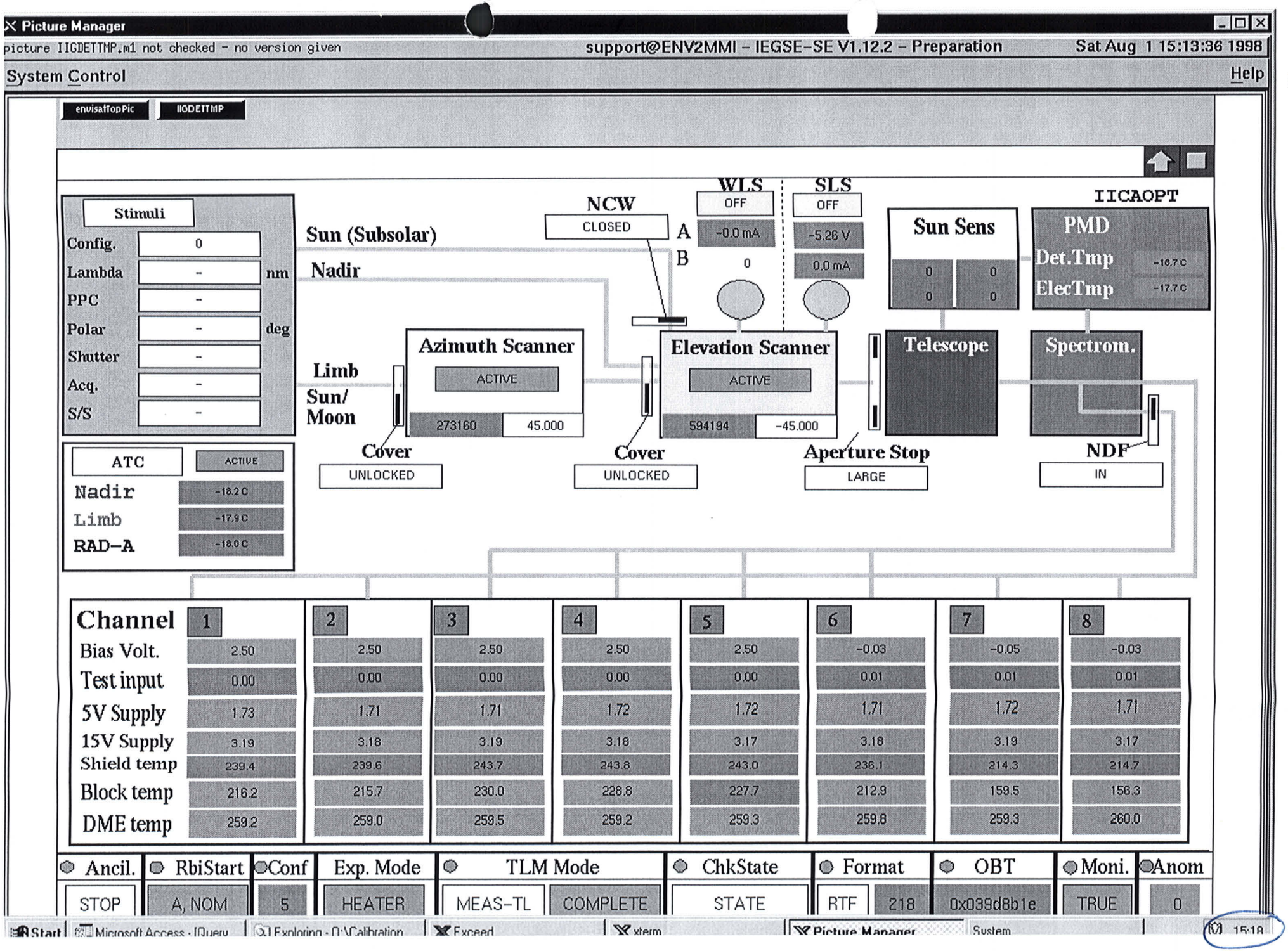
Block No	Stimuli Setup ID	PPG [deg]	Polarizer [deg]	Shutter open/close	Acquisition time [s]	Lambda [nm] Start	Stop	Step	Repetition Factor	Message	OS Setup time [s]

Measurement Data Description

Test Purpose	
Remark	extra 0 2-7b
Data Directory	02.13.1449 43_GEN_IN.DF

Signatures

	Date	Signature
Issued	1.8	
< Performed	1.8	

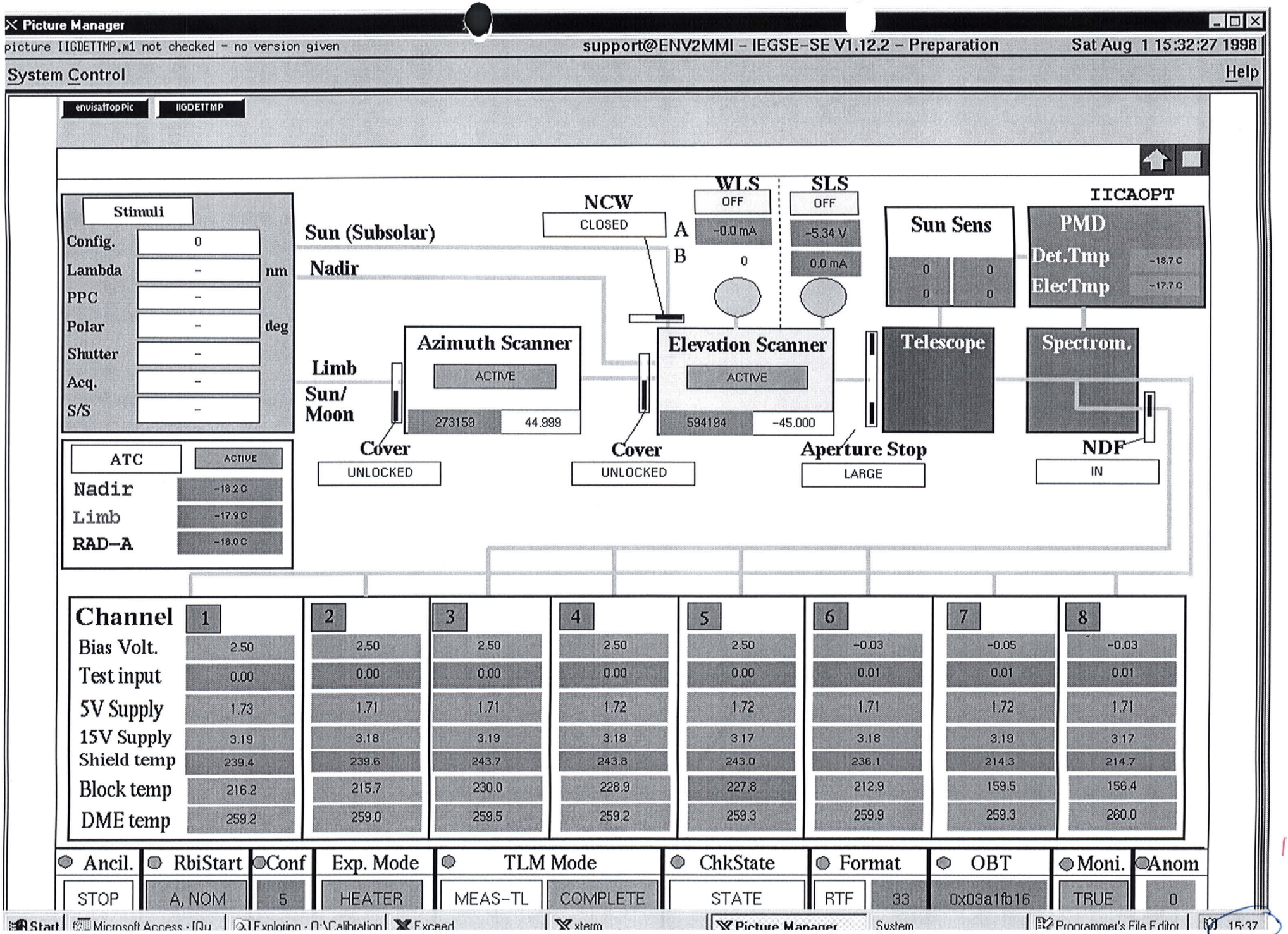


UFD 3

Block1

1-8-149

UTC



UIO36

Block

1-8-1998

UTC

STEP	ACTION	RESULT	MARKER
Intro	Your name:	Wendell Lynch	
	Date:	1-8-98	
	What's the name of the (main) data input files generated by the EGSE? `(*.dat)`	scia_01081998_151206858.dat	(A)
	Setup a three-window configuration on your SUN.		see course descr.
Cnstr directory	`cd ~/DATA-DIR/RAD-NADIR ; ls -l`		Note: In window DATA-DIR
	highest number in directory?	8	(B)
	New directory: `mkdir <B+1>` `ls -l` What's now the highest number in directory? <C> should be <B> + 1	9 (Y)/ N	(C)
	directory name is:	`~/DATA-DIR/RAD-NADIR/<C>`	(DIR-NAME)
Copy data	See Analysis sheet: Transfer Data File	(Y)/ N	In DATA-DIR window
Cnstr EGSE_LTF	`cal_raw2ltf .` (Error messages are not necessarily fatal; check with SOLAN --in solan window-- whether output file is okay: there should be a signal present, and `dremark1` labels should be filled) `ls -l *.egse_ltf` What's the name of the egse_ltf file	scia_01081998_151206858.egse.ltf	Note: In window DATA-DIR; ***don't forget the dot !!!;*** *May take more than 15 mins.* (D)
	`<D>` should be `<A>.egse_ltf`	(Y)/ N	
Cnstr CAL files	`idl run_averscia` (and select file <D> when asked)		Note: In window IDL
Check CAL files	Dark files: `ls -l *du*.avg.cal`		In DATA-DIR window
	size:	145.998	should be approx 150Kb

`ls -l *ru*.avg.cal`

size: 145.998 — should be approx 150Kb

Note: all files should be present, if not:
(a) Check file <D> using SOLAN and check whether DU, and IU labels are present in dremark1 labels
(b) Check if enough disk space is available (Unix command `df -k | more`).

Print postscript

Print postscript files:
`lpr -P<printer> *.ps`
Contents dark file `*du*.avg.cal.ps` should be approx. constant within channels: (Y) / N
Contents light file `*ru*.avg.cal.ps` should resemble white light source: (Y) / N

Contents of `*rel_std*.ps` files should be smaller than 0.01 (pixel 300 -- 800) for all channels. (Y) / N

If not, value is: _____

Add postscript images to logbook, done (Y) / N

Print logfiles `lpr -P<printer> *.log`
Add logfiles to logbook, done (Y) / N

Radiance processing

Run radiance `idl do_radiance` — In IDL window

Check radiance `ls -l * | more` — In DATA-DIR window

Size of file `<D>.du*.avg.cal.p1.cal` 145.998 — should be approx 150Kb

Size of file
<D>.du*.avg.cal.p2.cal 145.998

Check radiance visually

```
lpr -P<printer>
*.p[12].*.cal.ps
```

Value of P1 and P2 file resemble white light source? (Y) / N

Add postscript images to logbook, done (Y) / N

Print logfiles

```
lpr -P<printer>
*.p[12].cal.log
```

Add logfiles to logbook, done (Y) / N

Back up

Create 3 sets of backup CDs of directory <DIR-NAME> (One CD has a capacity of 600 Mbytes, the UNIX command `/usr/bin/du -k .` gives the number of kilo bytes in the current directory).

See analysis sheet BackUp

Name of backup CDs _____

Sign:

Name _____

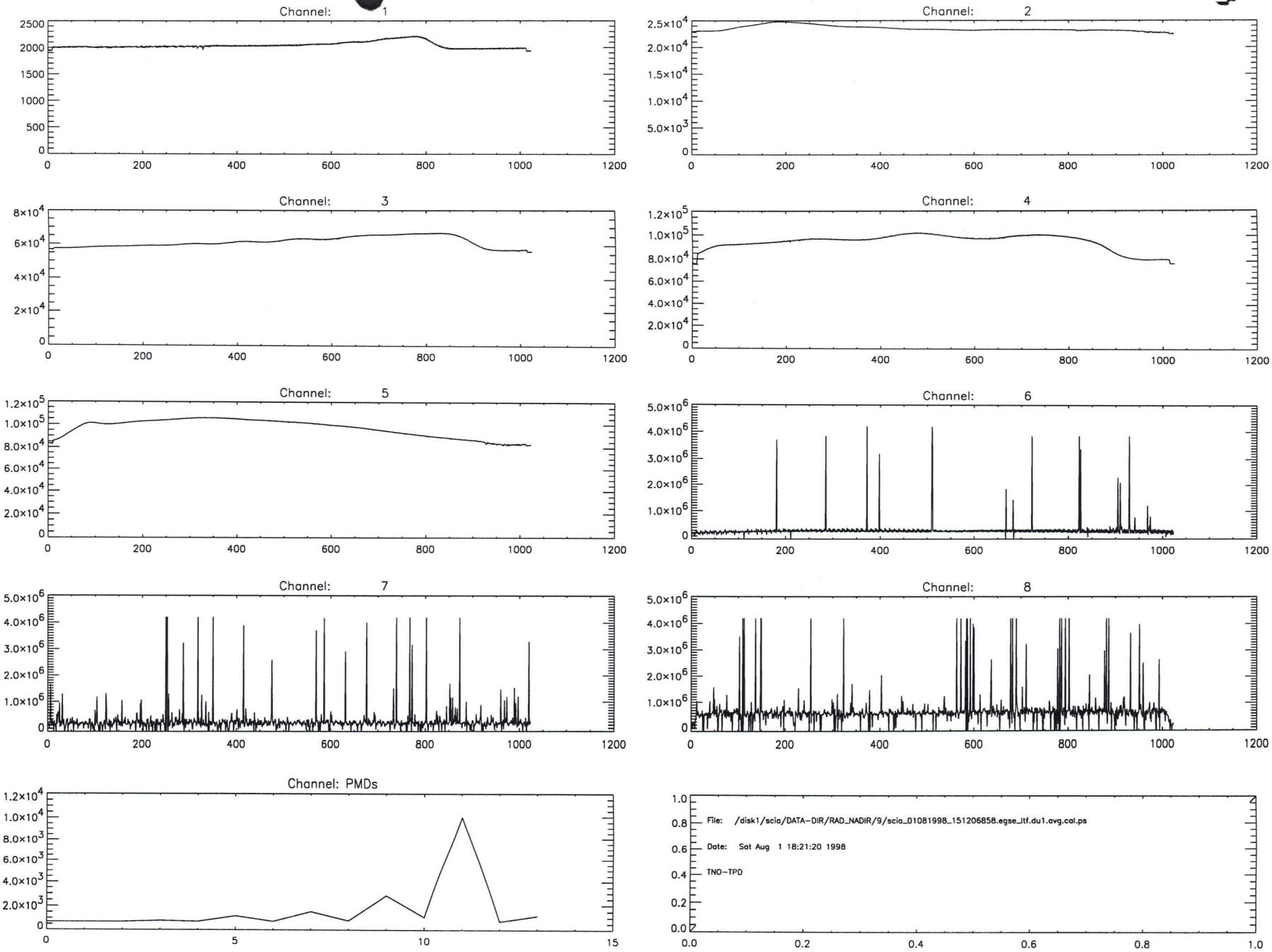
Date and time _____

Signature _____

Construct CORR directory

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Wendell Lynch 1-08-98	
	Setup a three-window configuration on your SUN.		See course descr.
Cnstr correction directory	`cd ~/DATA-DIR/CORR ; ls` If there isn't a subdirectory corresponding to the current date, then `mk_corr_dir <date>`, where `<date>` is formated as follows DDMMYY (where DD, MM and YY correspond to the current date, DD = day, MM = month, YY = year 98). What is the name of the new directory?	010898	Note: In window DATA-DIR (A)
Check	`ls -l <A>`		
	`etalon.cal` present?	(Y) / N	
	`dead_bad.pix` present?	(Y) / N	
	`stray.data` present?	(Y) / N	
	`wl.data` present?	(Y) / N	
	`ppg.cal` present?	(Y) / N	
Sign:	Name Date and time Signature	Wendell Lynch 1-08-98 17.20 UTC	

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Wendell Lynch 1-8-98	
	What's the name of the (main) data input files that you want to store on the SUN named `scia6`?	0213_14.49.43_GEN_NDF_NADIR	(A)
	Setup a three-window configuration on your SUN.		See course descr.
Do Transfer	Be sure that you are in the directory you want your files in ftp <internet-address>, where you can find the address of the PC in the file `/etc/hosts` (entry: cdwpc). The address will also be next to you on paper (most probably). When asked for user, fill in: `anonymous`, when asked for an email address, fill in your email address on TPD. Set in binary: `binary` `mget *` (and return `y` to every file). `bye`		In DATA-DIR window In DATA window Approx. 140 kB
Sign:	Name Date and time Signature	Wendell Lynch 1-8-98 16.15 uTC	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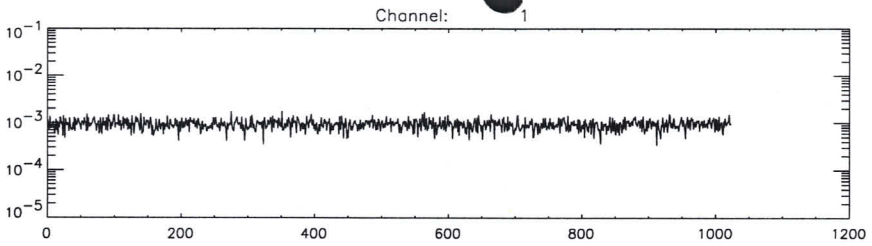
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_NADIR/9/scia_01081998_151206858.egse_ltf.du1.avg.cal.ps
Date: Sat Aug 1 18:21:20 1998
TNO-TPD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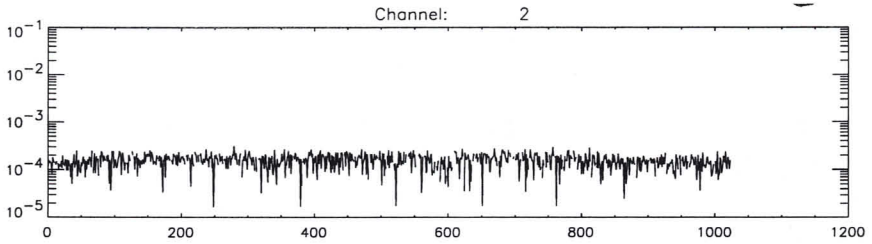
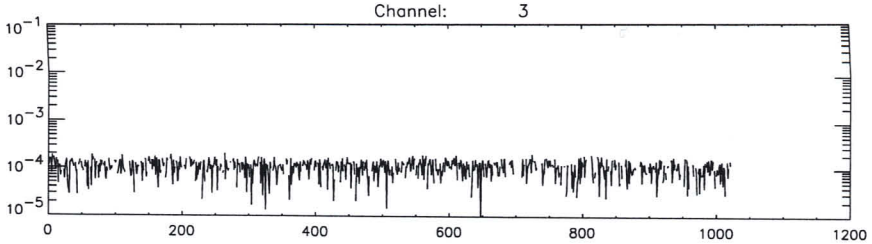
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
200
400
600
800
1000
1200


Channel: 2
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
200
400
600
800
1000
1200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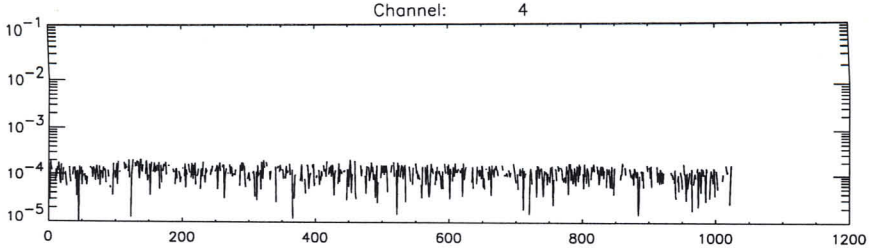
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
200
400
600
800
1000
1200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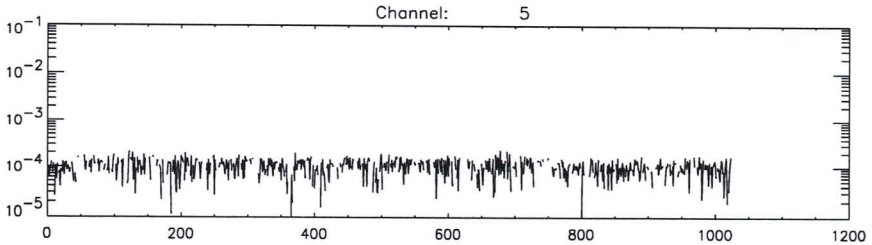
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
200
400
600
800
1000
1200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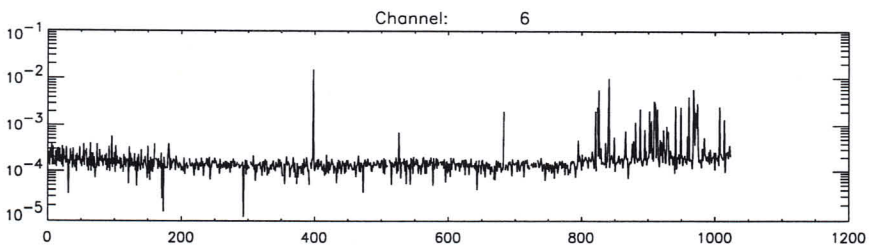
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
200
400
600
800
1000
1200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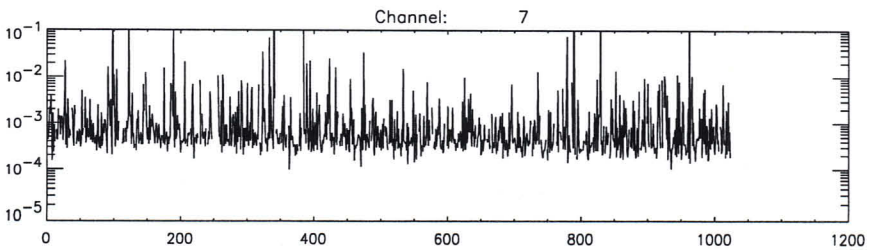
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
200
400
600
800
1000
1200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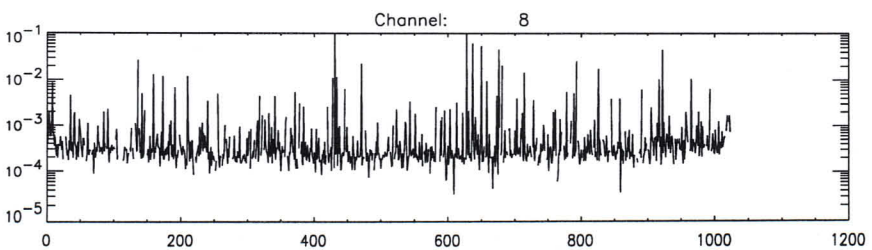
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
200
400
600
800
1000
1200


Channel: 8
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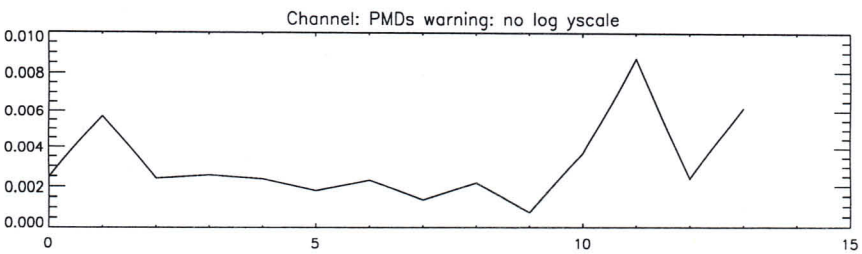
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
200
400
600
800
1000
1200


Channel: PMDs warning: no log yscale
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0.008
0.006
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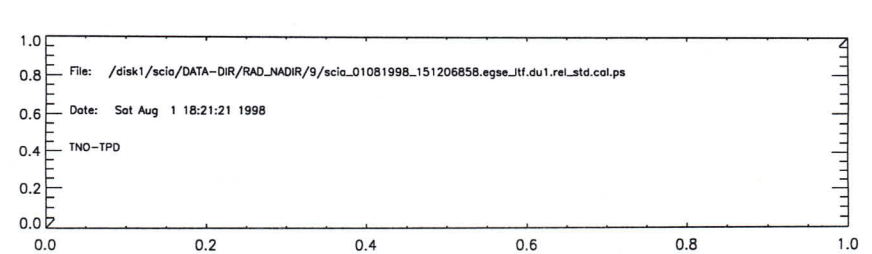
0.002
0.000
0
5
10
15


File: /disk1/scia/DATA-DIR/RAD_NADIR/9/scia_01081998_151206858.egse_itf.du1.rel_std.cal.ps
Date: Sat Aug 1 18:21:21 1998
TNO-TPD
1.0
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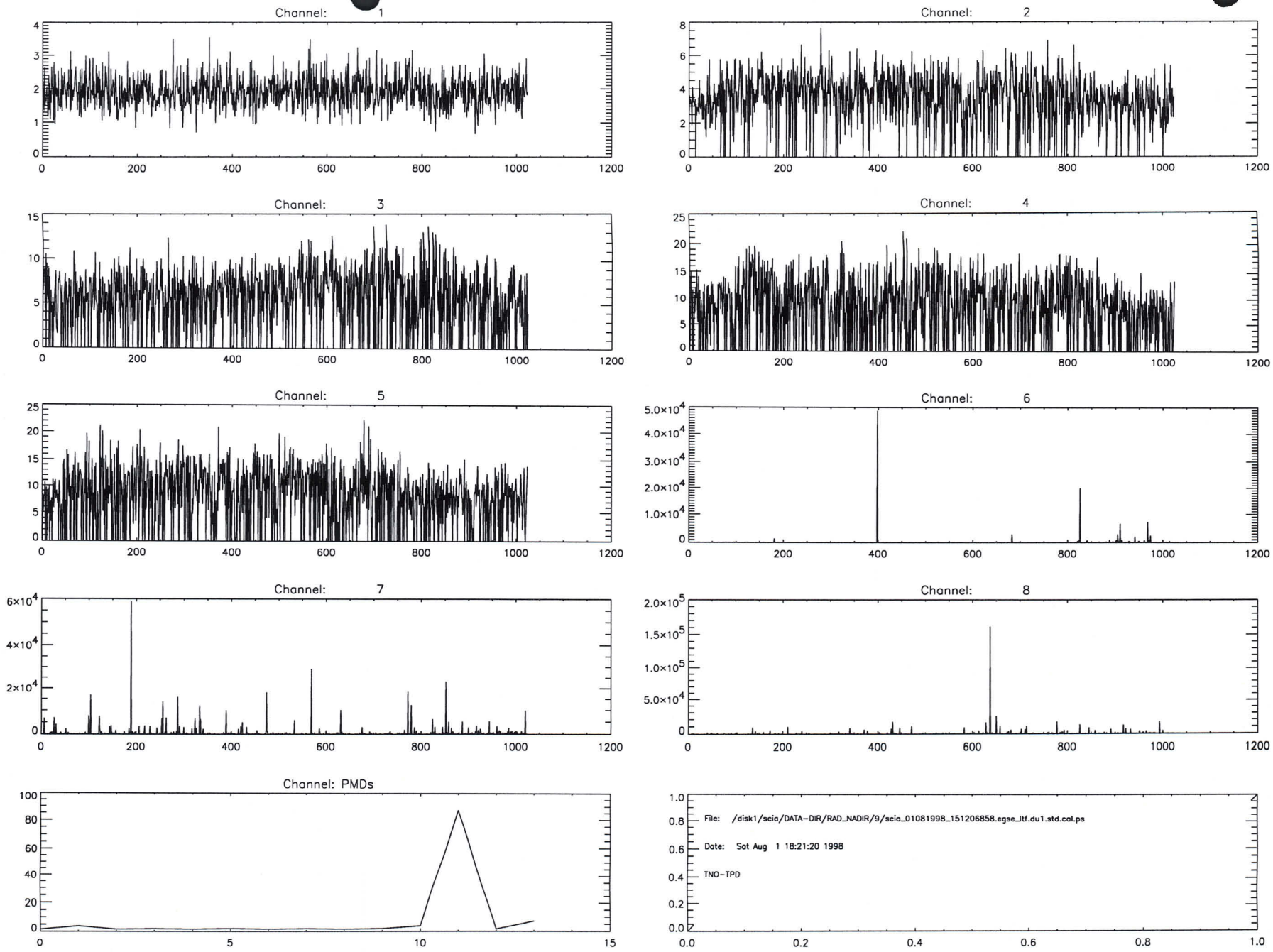
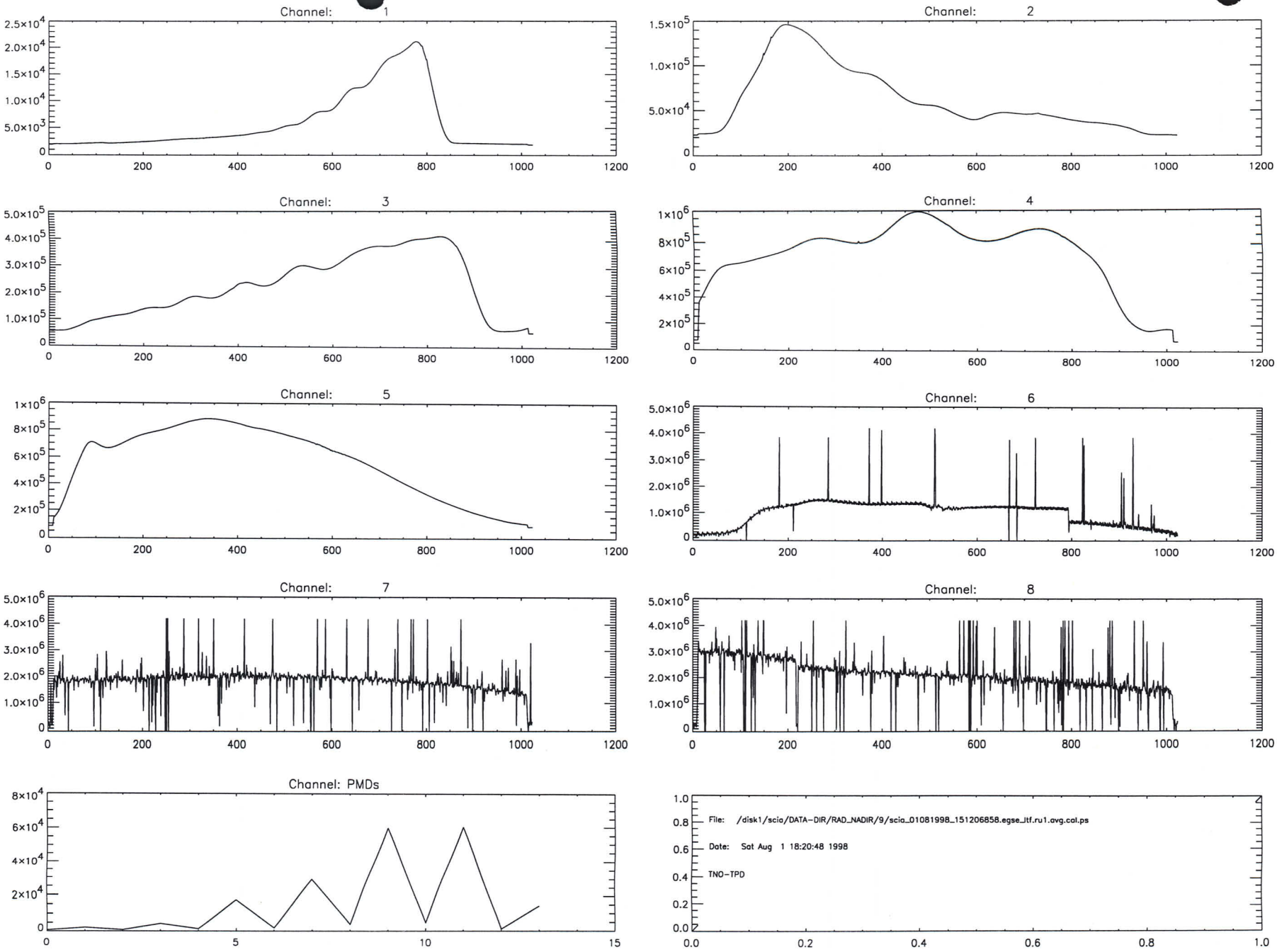
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_NADIR/9/scia_01081998_151206858.egse_itf.du1.std.cal.ps
Date: Sat Aug 1 18:21:20 1998
TNO-TPD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Channel: 2
Channel: 3
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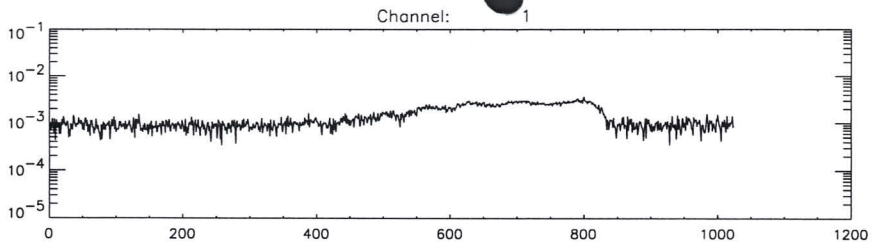
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_NADIR/9/scia_01081998_151206858.egse_itf.ru1.avg.cal.ps
Date: Sat Aug 1 18:20:48 1998
TNO-TPD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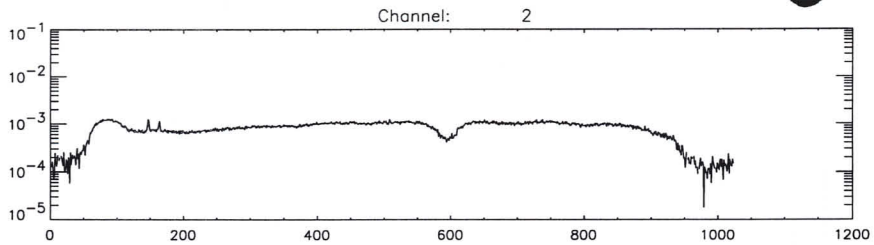
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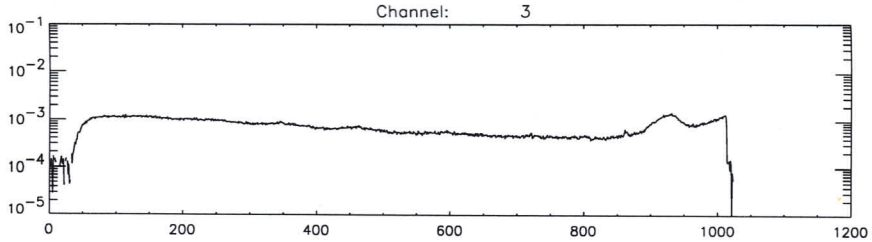
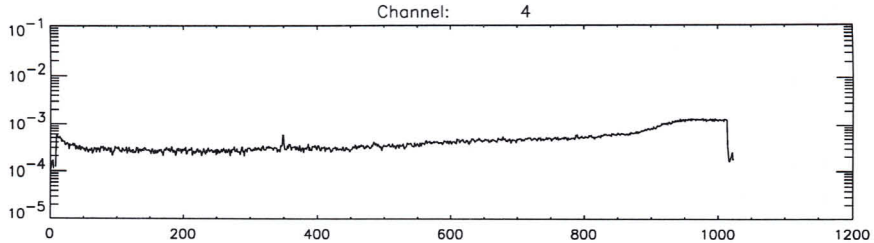
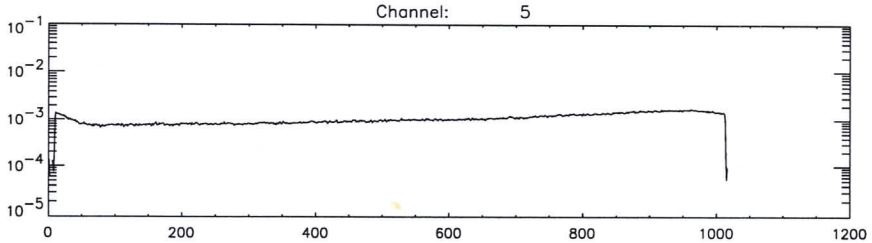

Channel: 3


Channel: 4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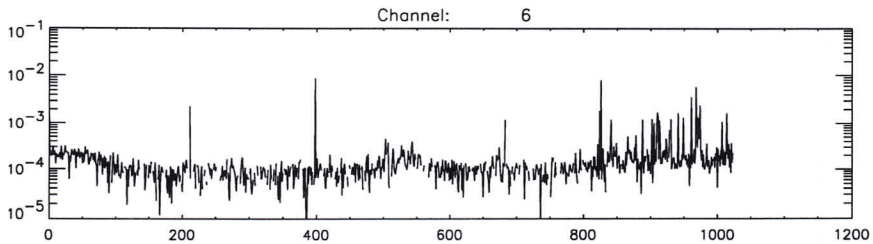
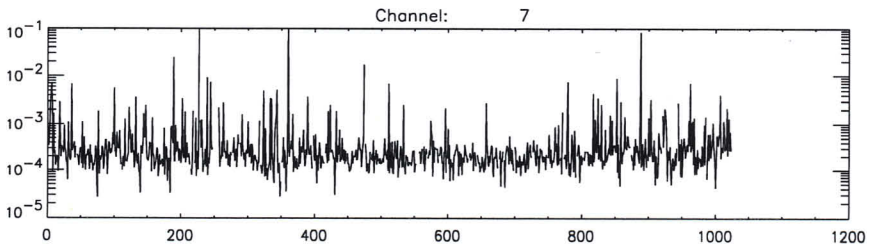
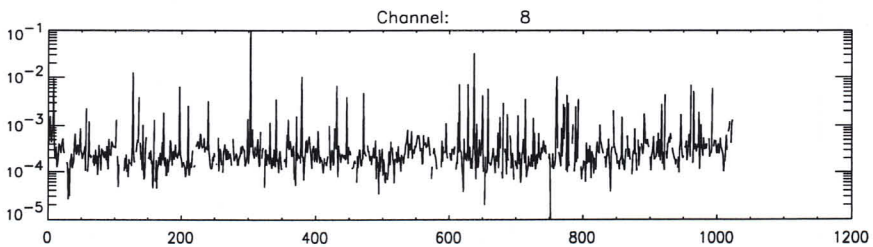
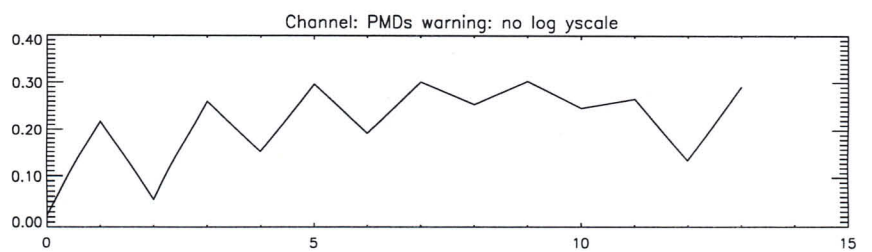
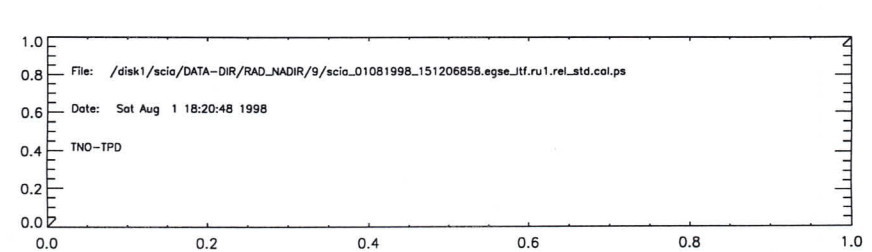
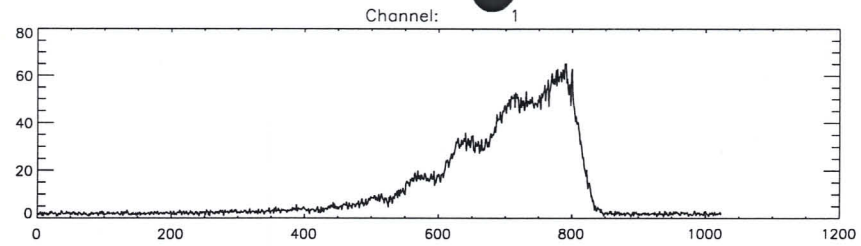

Channel: 6


Channel: 7


Channel: 8


Channel: PMDs warning: no log yscale


File: /disk1/scia/DATA-DIR/RAD_NADIR/9/scia_01081998_151206858.egse_itf.ru1.rel_std.cal.ps
Date: Sat Aug 1 18:20:48 1998
TNO-TPD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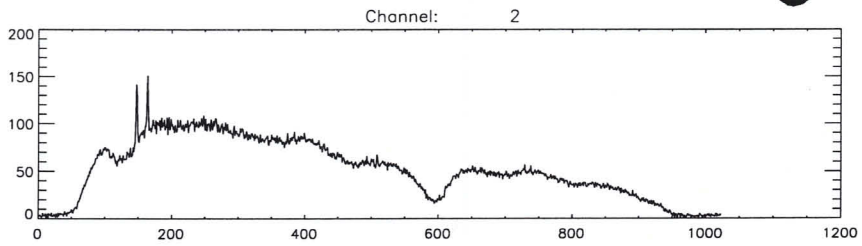
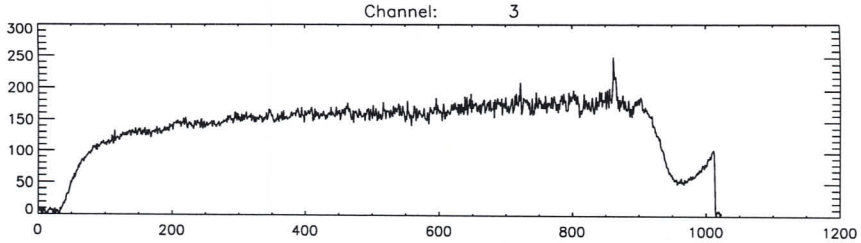

Channel: 2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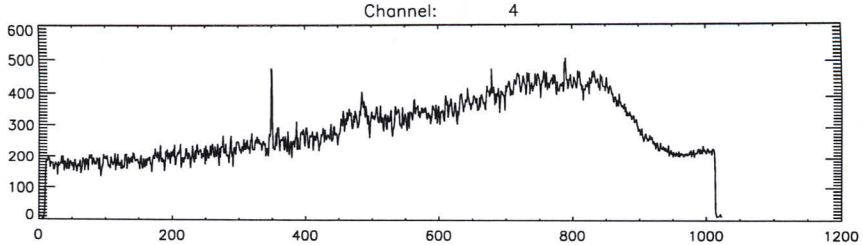
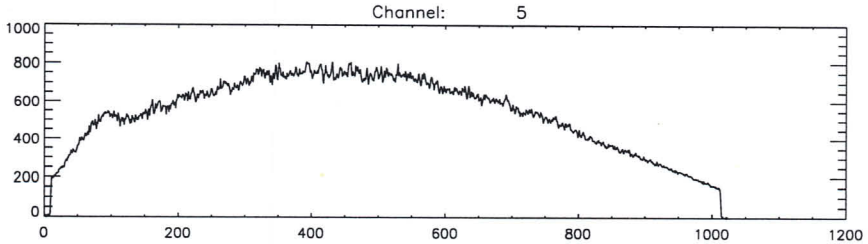
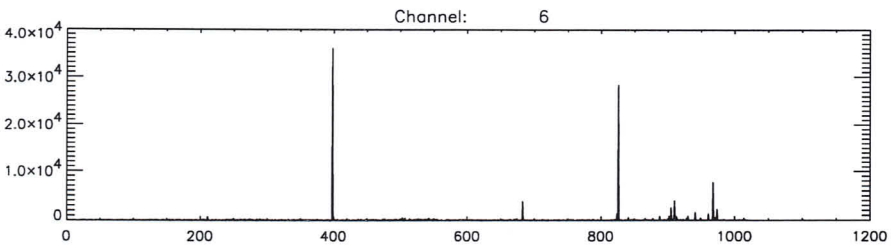
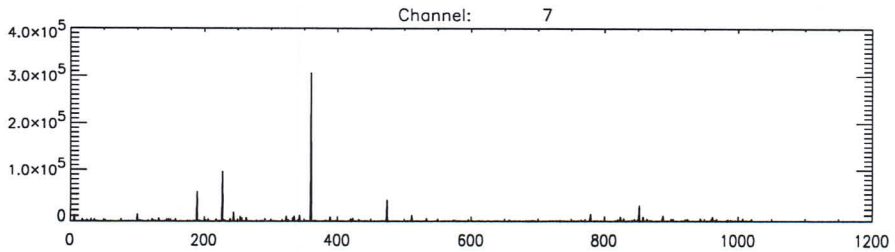
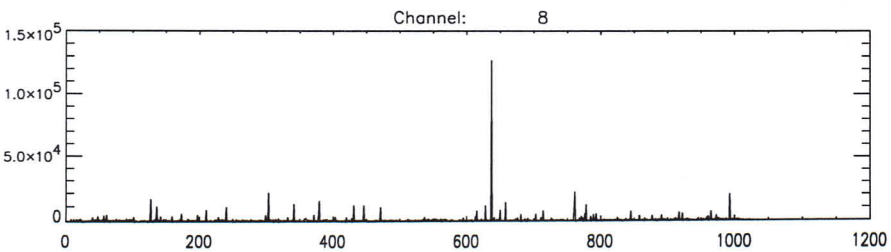
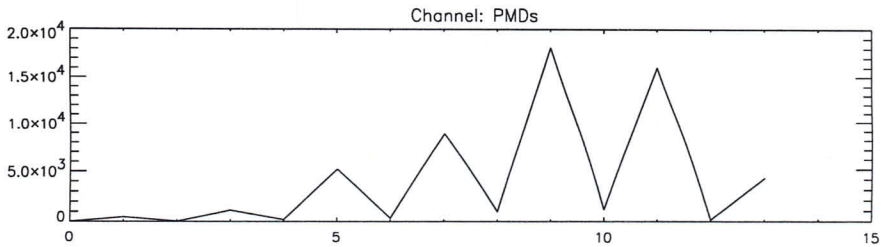

Channel: 4

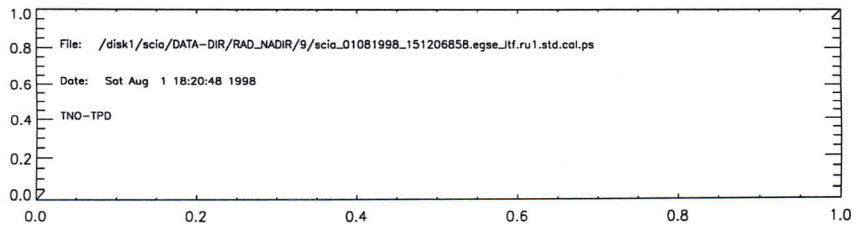

Channel: 5


Channel: 6


Channel: 7

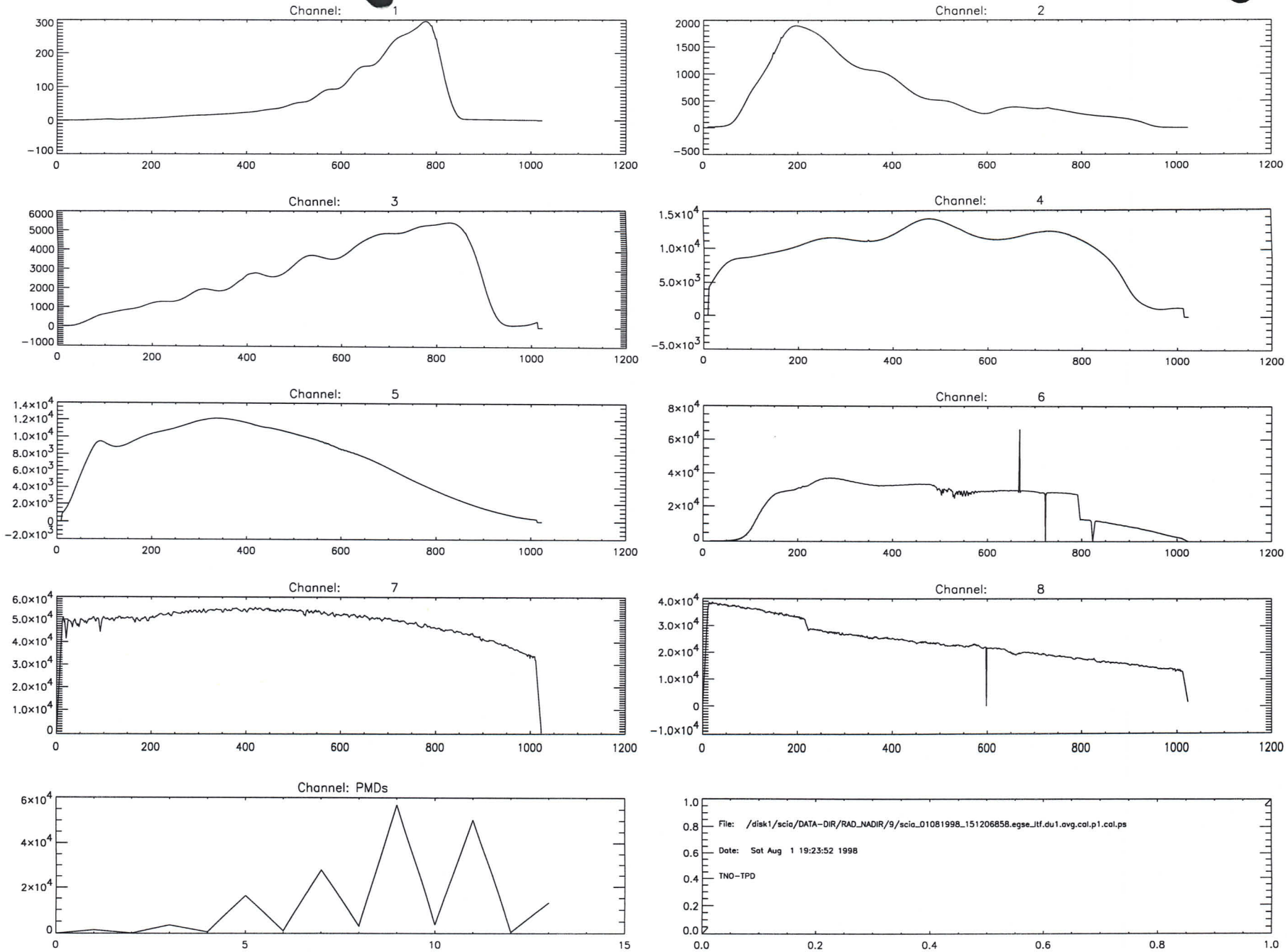

Channel: 8

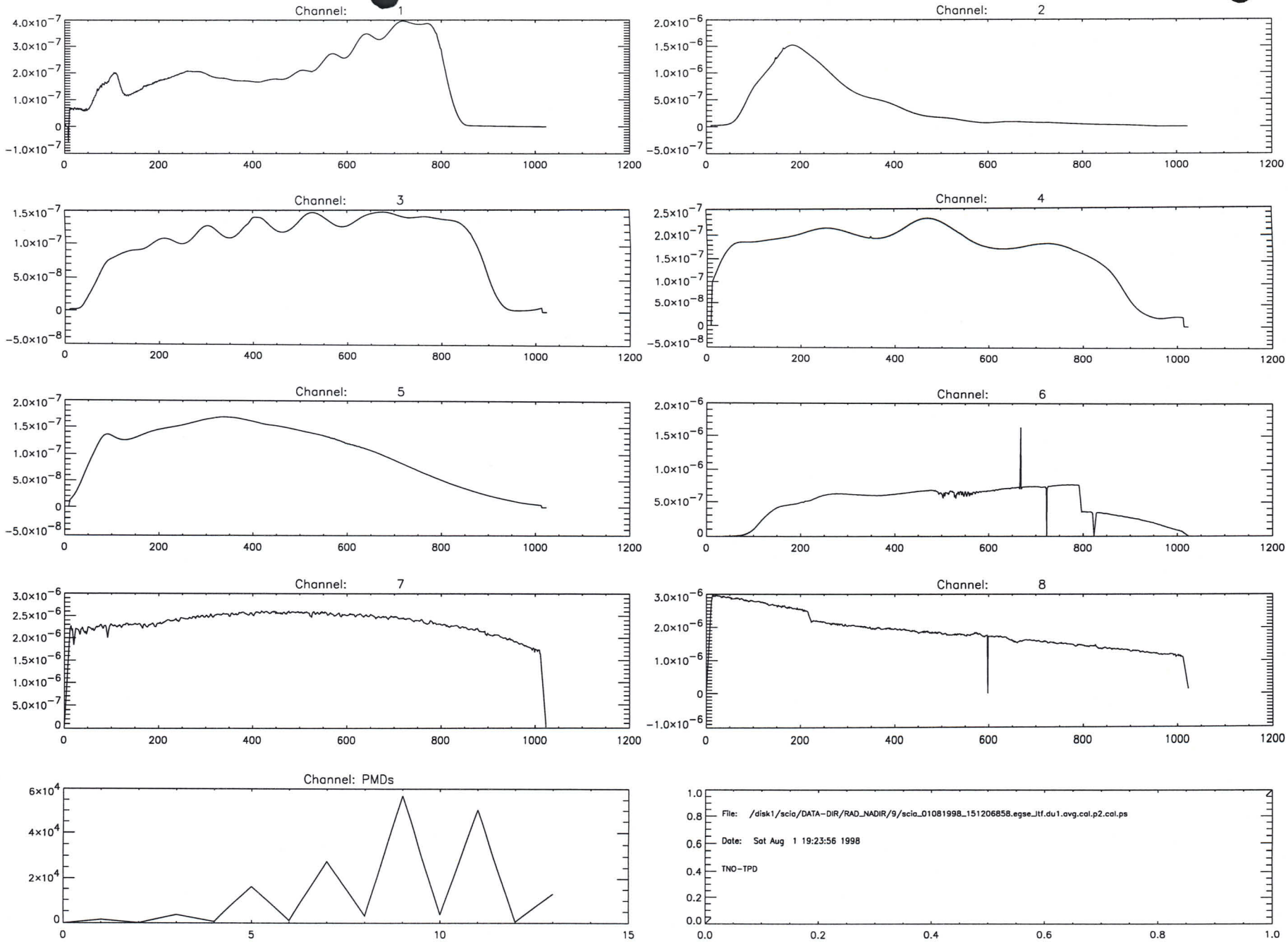

Channel: PMDs


File: /disk1/scia/DATA-DIR/RAD_NADIR/9/scia_01081998_151206858.egse_itf.ru1.std.cal.ps
Date: Sat Aug 1 18:20:48 1998
TNO-TPD

```
time       = Sat Aug  1 18:21:21 1998
batch      = du1
Start TOD = Sat 01-Aug-98 15:29:28
End   TOD = Sat 01-Aug-98 15:41:04
Processing= computation of average, standard dev. and rel.standard dev.
```

```
time       = Sat Aug  1 18:20:49 1998
batch      = ru1
Start TOD = Sat 01-Aug-98 15:12:28
End   TOD = Sat 01-Aug-98 15:29:28
Processing= computation of average, standard dev. and rel.standard dev.
```


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_NADIR/9/scia_01081998_151206858.egse_ltf.du1.avg.col.p1.cal.ps
Date: Sat Aug 1 19:23:52 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_NADIR/9/scia_01081998_151206858.egse_itf.du1.avg.cal.p2.cal.ps
Date: Sat Aug 1 19:23:56 1998
TNO-TPD

Version: 0.1
Input files:

/disk1/scia/DATA-DIR/RAD_NADIR/9/scia_01081998_151206858.egse_ltf.du1.avg.c
 and

/disk1/scia/DATA-DIR/RAD_NADIR/9/scia_01081998_151206858.egse_ltf.ru1.avg.cal
Action:
Radiance calibration: No correction bsdf, transmission and e_cal
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/010898/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/010898/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/010898/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/010898/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/010898/stray.da
Processing time: Sat Aug 1 19:23:51 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_NADIR/9/scia_01081998_151206858.egse_ltf.du1.avg.cal.
Ambient files:
Ambient Correction file versions ac_ucp = # VERSION 0.0
ac_ucs = #VERSION 0.0
ala4lp = #VERSION 0.0
ala4ls = #VERSION 0.0
ala4lx = #VERSION 0.0
alamlp = #VERSION 0.0
alamls = #VERSION 0.0
alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
alaulp = #VERSION 0.0
alauls = #VERSION 0.0
anapnp = #VERSION 0.0
anapnx = #VERSION 0.0
anaunp = #VERSION 0.0 ASAP data
anauns = #VERSION 0.0 ASAP data
bsdf = #Date: 15/06/98 NOTE: This is preliminary data! The final keydata must
optec_window = #VERSION 0.0
reflectance = #VERSION 0.0

Version: 0.1
Input files:

/disk1/scia/DATA-DIR/RAD_NADIR/9/scia_01081998_151206858.egse_ltf.du1.avg.c
 and

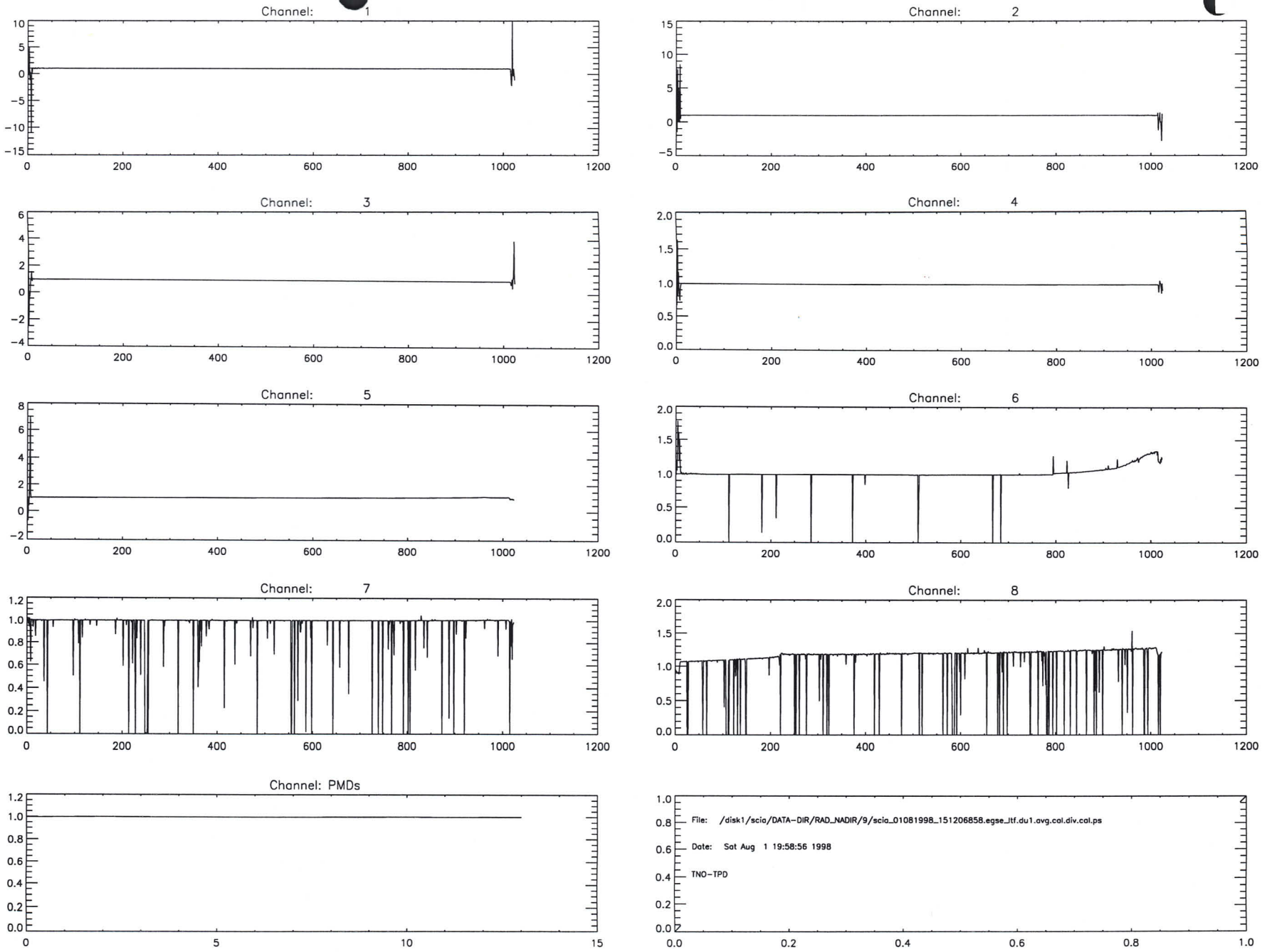
/disk1/scia/DATA-DIR/RAD_NADIR/9/scia_01081998_151206858.egse_ltf.ru1.avg.cal
Action:
Radiance calibration + divided by calibrated irradiance + divded by bsdf + di
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/010898/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/010898/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/010898/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/010898/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/010898/stray.da
Processing time: Sat Aug 1 19:23:55 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_NADIR/9/scia_01081998_151206858.egse_ltf.du1.avg.cal
Ambient files:
Ambient Correction file versions ac_ucp = # VERSION 0.0
ac_ucs = #VERSION 0.0
ala4lp = #VERSION 0.0
ala4ls = #VERSION 0.0
ala4lx = #VERSION 0.0
alamlp = #VERSION 0.0
alamls = #VERSION 0.0
alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
alaulp = #VERSION 0.0
alauls = #VERSION 0.0
anapnp = #VERSION 0.0
anapnx = #VERSION 0.0
anaunp = #VERSION 0.0 ASAP data
anauns = #VERSION 0.0 ASAP data
bsdf = #Date: 15/06/98 NOTE: This is preliminary data! The final keydata must
optec_window = #VERSION 0.0
reflectance = #VERSION 0.0

```
#! /bin/sh
mv f0 213y1449.doc
mv f1 213y1542.xls
mv f2 WS_FTP.LOG
mv f3 dapbchklog
mv f4 dapbseqlog
mv f5 div1.ps
mv f6 div2.ps
mv f7 div3.ps
mv f8 div4.ps
mv f9 div5.ps
mv f10 div6.ps
mv f11 div7.ps
mv f12 div8.ps
mv f13 egse.inf
mv f14 gemsmpara.dat
mv f15 hk_ccb.dat
mv f16 scia_01081998_151206858.dat
mv f17 scia_01081998_151206858.egse_ltf
mv f18 scia_01081998_151206858.egse_ltf.du1.avg.cal
mv f19 scia_01081998_151206858.egse_ltf.du1.avg.cal.div.cal
mv f20 scia_01081998_151206858.egse_ltf.du1.avg.cal.div.cal.log
r   f21 scia_01081998_151206858.egse_ltf.du1.avg.cal.div.cal.ps
mv f22 scia_01081998_151206858.egse_ltf.du1.avg.cal.div.cal.ps.log
mv f23 scia_01081998_151206858.egse_ltf.du1.avg.cal.p1.cal
mv f24 scia_01081998_151206858.egse_ltf.du1.avg.cal.p1.cal.log
mv f25 scia_01081998_151206858.egse_ltf.du1.avg.cal.p1.cal.ps
mv f26 scia_01081998_151206858.egse_ltf.du1.avg.cal.p1.cal.ps.log
mv f27 scia_01081998_151206858.egse_ltf.du1.avg.cal.p2.cal
mv f28 scia_01081998_151206858.egse_ltf.du1.avg.cal.p2.cal.keydata
mv f29 scia_01081998_151206858.egse_ltf.du1.avg.cal.p2.cal.log
mv f30 scia_01081998_151206858.egse_ltf.du1.avg.cal.p2.cal.ps
mv f31 scia_01081998_151206858.egse_ltf.du1.avg.cal.p2.cal.ps.log
mv f32 scia_01081998_151206858.egse_ltf.du1.avg.cal.ps
mv f33 scia_01081998_151206858.egse_ltf.du1.log
mv f34 scia_01081998_151206858.egse_ltf.du1.rel_std.cal
mv f35 scia_01081998_151206858.egse_ltf.du1.rel_std.cal.ps
mv f36 scia_01081998_151206858.egse_ltf.du1.std.cal
mv f37 scia_01081998_151206858.egse_ltf.du1.std.cal.ps
mv f38 scia_01081998_151206858.egse_ltf.ru1.avg.cal
mv f39 scia_01081998_151206858.egse_ltf.ru1.avg.cal.ps
mv f40 scia_01081998_151206858.egse_ltf.ru1.log
mv f41 scia_01081998_151206858.egse_ltf.ru1.rel_std.cal
mv f42 scia_01081998_151206858.egse_ltf.ru1.rel_std.cal.ps
mv f43 scia_01081998_151206858.egse_ltf.ru1.std.cal
mv f44 scia_01081998_151206858.egse_ltf.ru1.std.cal.ps
```

```
#! /bin/sh
mv 213y1449.doc f0
mv 213y1542.xls f1
mv WS_FTP.LOG f2
mv dapbchklog f3
mv dapbseqlog f4
mv div1.ps f5
mv div2.ps f6
mv div3.ps f7
mv div4.ps f8
mv div5.ps f9
mv div6.ps f10
mv div7.ps f11
mv div8.ps f12
mv egse.inf f13
mv gemsmpara.dat f14
mv hk_ccb.dat f15
mv scia_01081998_151206858.dat f16
mv scia_01081998_151206858.egse_ltf f17
mv scia_01081998_151206858.egse_ltf.du1.avg.cal f18
mv scia_01081998_151206858.egse_ltf.du1.avg.cal.div.cal f19
mv scia_01081998_151206858.egse_ltf.du1.avg.cal.div.cal.log f20
r   scia_01081998_151206858.egse_ltf.du1.avg.cal.div.cal.ps f21
mv scia_01081998_151206858.egse_ltf.du1.avg.cal.div.cal.ps.log f22
mv scia_01081998_151206858.egse_ltf.du1.avg.cal.p1.cal f23
mv scia_01081998_151206858.egse_ltf.du1.avg.cal.p1.cal.log f24
mv scia_01081998_151206858.egse_ltf.du1.avg.cal.p1.cal.ps f25
mv scia_01081998_151206858.egse_ltf.du1.avg.cal.p1.cal.ps.log f26
mv scia_01081998_151206858.egse_ltf.du1.avg.cal.p2.cal f27
mv scia_01081998_151206858.egse_ltf.du1.avg.cal.p2.cal.keydata f28
mv scia_01081998_151206858.egse_ltf.du1.avg.cal.p2.cal.log f29
mv scia_01081998_151206858.egse_ltf.du1.avg.cal.p2.cal.ps f30
mv scia_01081998_151206858.egse_ltf.du1.avg.cal.p2.cal.ps.log f31
mv scia_01081998_151206858.egse_ltf.du1.avg.cal.ps f32
mv scia_01081998_151206858.egse_ltf.du1.log f33
mv scia_01081998_151206858.egse_ltf.du1.rel_std.cal f34
mv scia_01081998_151206858.egse_ltf.du1.rel_std.cal.ps f35
mv scia_01081998_151206858.egse_ltf.du1.std.cal f36
mv scia_01081998_151206858.egse_ltf.du1.std.cal.ps f37
mv scia_01081998_151206858.egse_ltf.ru1.avg.cal f38
mv scia_01081998_151206858.egse_ltf.ru1.avg.cal.ps f39
mv scia_01081998_151206858.egse_ltf.ru1.log f40
mv scia_01081998_151206858.egse_ltf.ru1.rel_std.cal f41
mv scia_01081998_151206858.egse_ltf.ru1.rel_std.cal.ps f42
mv scia_01081998_151206858.egse_ltf.ru1.std.cal f43
mv scia_01081998_151206858.egse_ltf.ru1.std.cal.ps f44
```

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Wendell Lynch 01-08-98	9/8
	What's the name of the (main) data input file that you want to store in the SOC directory?	?	(A)
	Setup a three-window configuration on your SUN.		See course descr.
Do ratio	`idl do_ratio` Let <D1> be the first selected dark file name		In IDL window
	Full path name of <D1> ls -l <D1>.div.cal	Scia ~01081998_151206858.egse_ltf	In DATA window
	size of <D1>.div.cal	145.998	Approx. 140 kB
	lpr -P<printer> <D1>.div.cal.ps Add postscript image to logbook, Done?	Y / N	In DATA Window
Back up	Create 3 sets of backup CDs of directory ~/DATA-DIR/START-OF-CALIBRATION (One CD has a capacity of 600 Mbytes, the UNIX command `/usr/bin/du -k .` gives the number of kilo bytes in the current directory). Name of backup CDs	010898 C	See analysis sheet BackUp
Sign:	Name Date and time Signature		

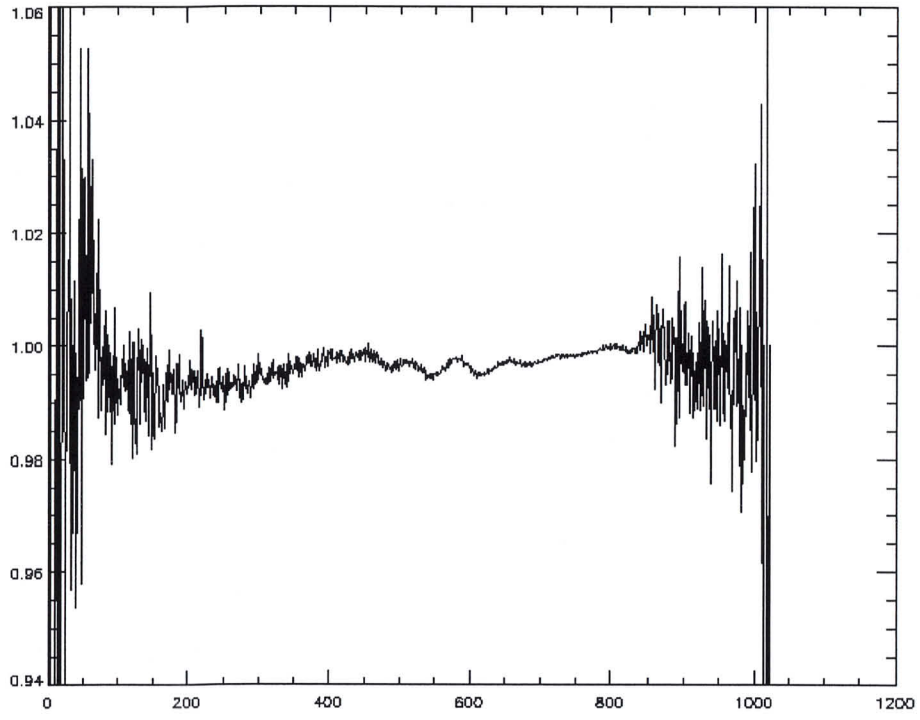
Note that the do_ratio procedure asks:
1/ ~~one~~ dark file
2/ a corresponding light file
3/ a second dark file
4/ a corresponding light file.


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_NADIR/9/scia_01081998_151206858.egse_ltf.du1.avg.cal.div.cal.ps
Date: Sat Aug 1 19:58:56 1998
TNO-TPD

UID 36

Radiance + ND at minimum + 50 cm

Ratio Rad_Nadir $\frac{9}{8}$

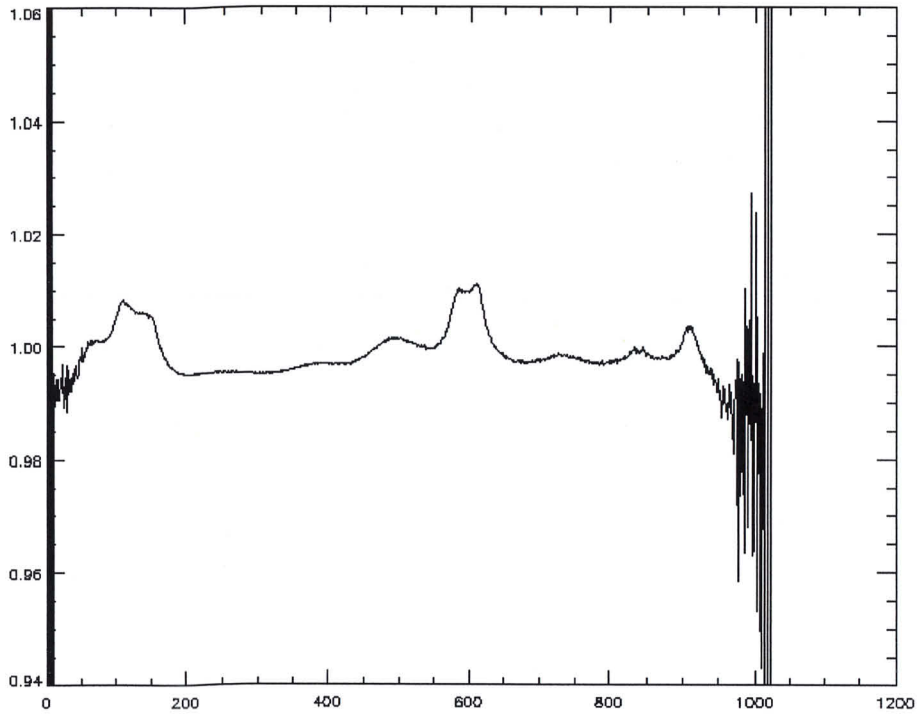


Channel 1

UID 36

Radiance + ND at minimum +50cm

Ratio Rad_Nadir 9/8

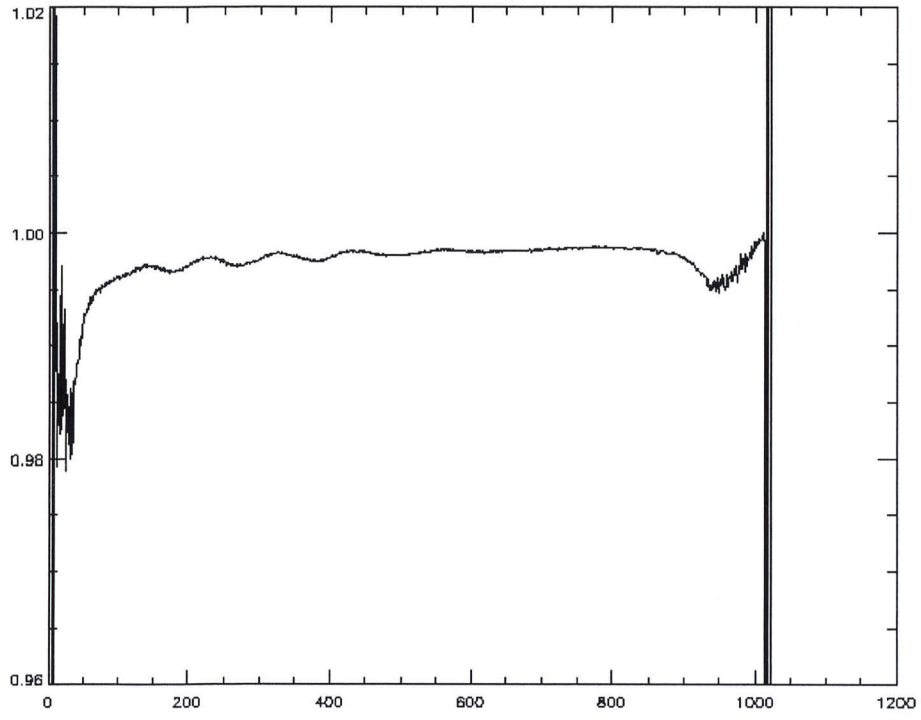


Channel 2

UID 36

Radiance + ND at minimum + 50 cm

Ratio Rad_Nadir 9/8

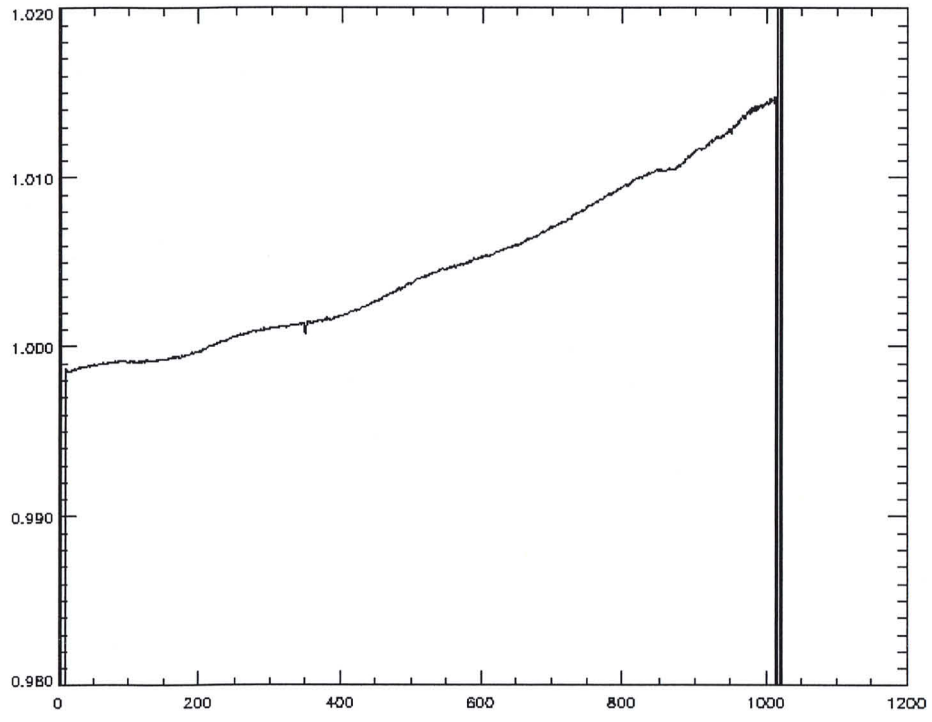


Channel 3

VIID 36

Radiance +ND at minimum +50 cm

Ratio Rad_Nadir 9/8

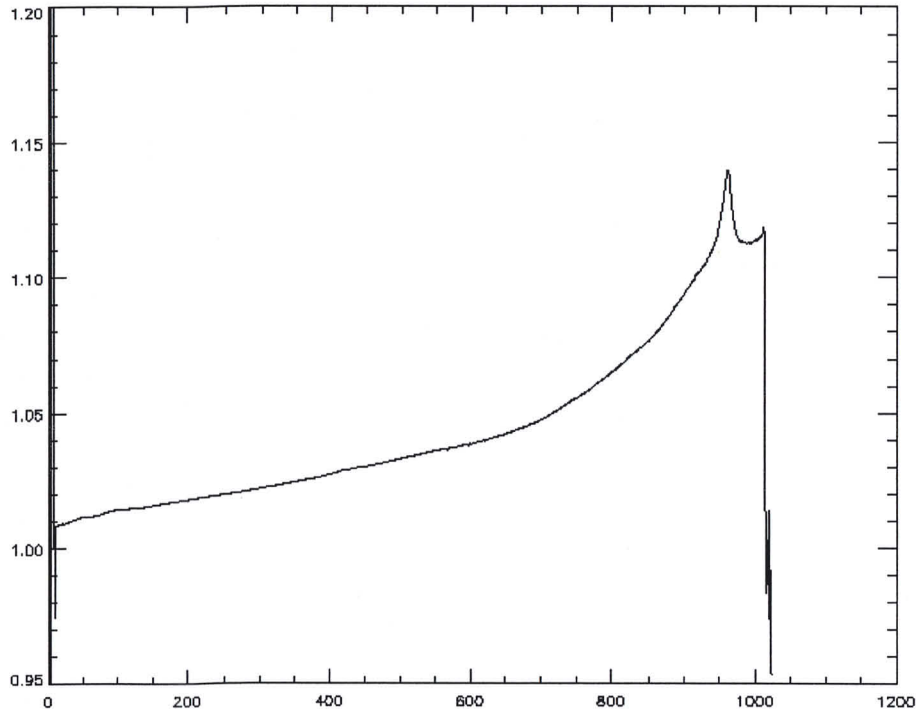


Channel 4

UID 36

Radiance ND at minimum +50 cm

Ratio Rad - Nadir 9/8

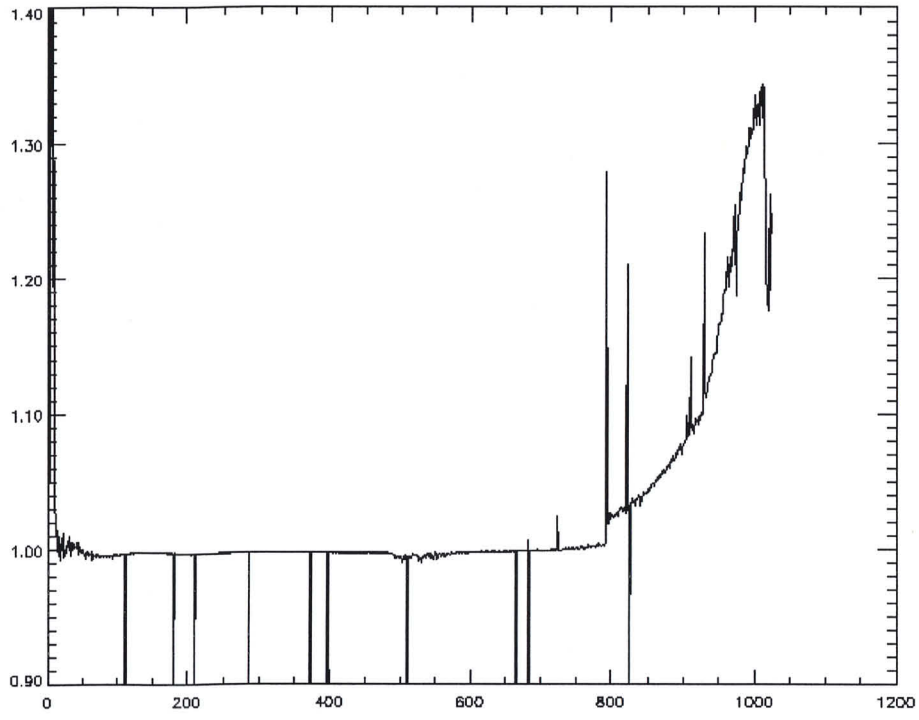


Channel 5

UID 36

Radiance + ND at minimum +50cm

Ratio Rad_Nadir 9/8

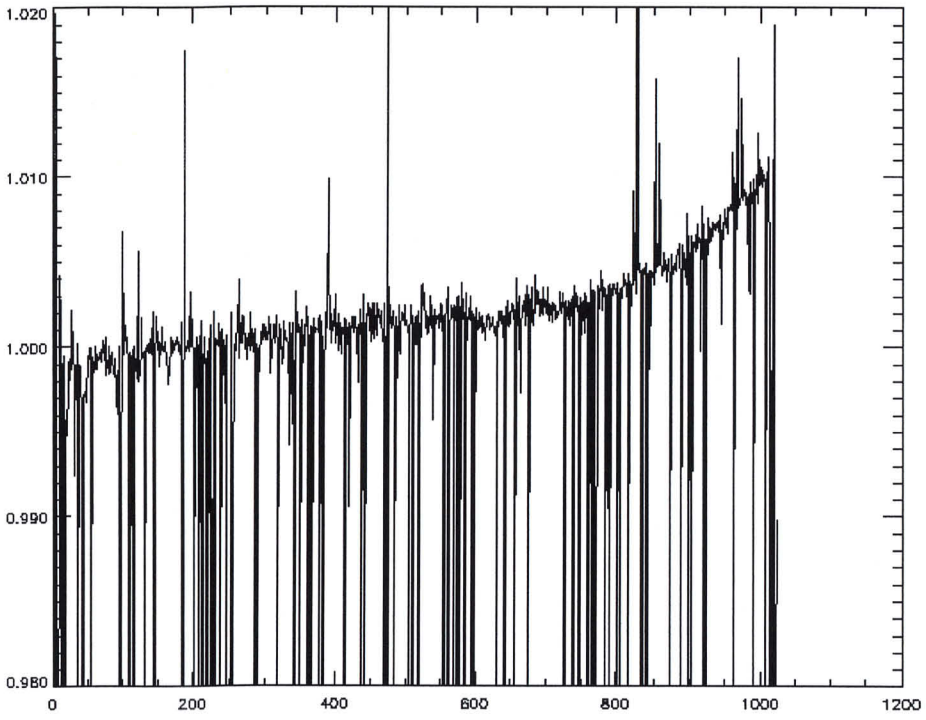


Channel 6

UID 36

Radiance +ND at minimum +50 cm

Ratio Rad_Nadir 9/8

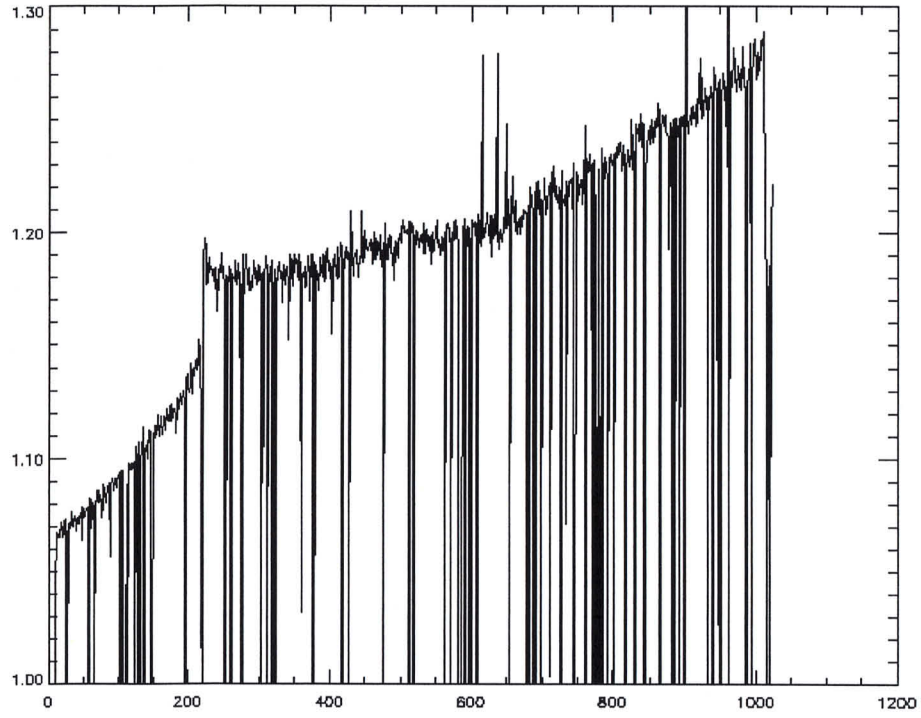


Channel 7

UiD 36

Radiance +ND at Minimum +50cm

Ratio Rad - Nadir 9/8

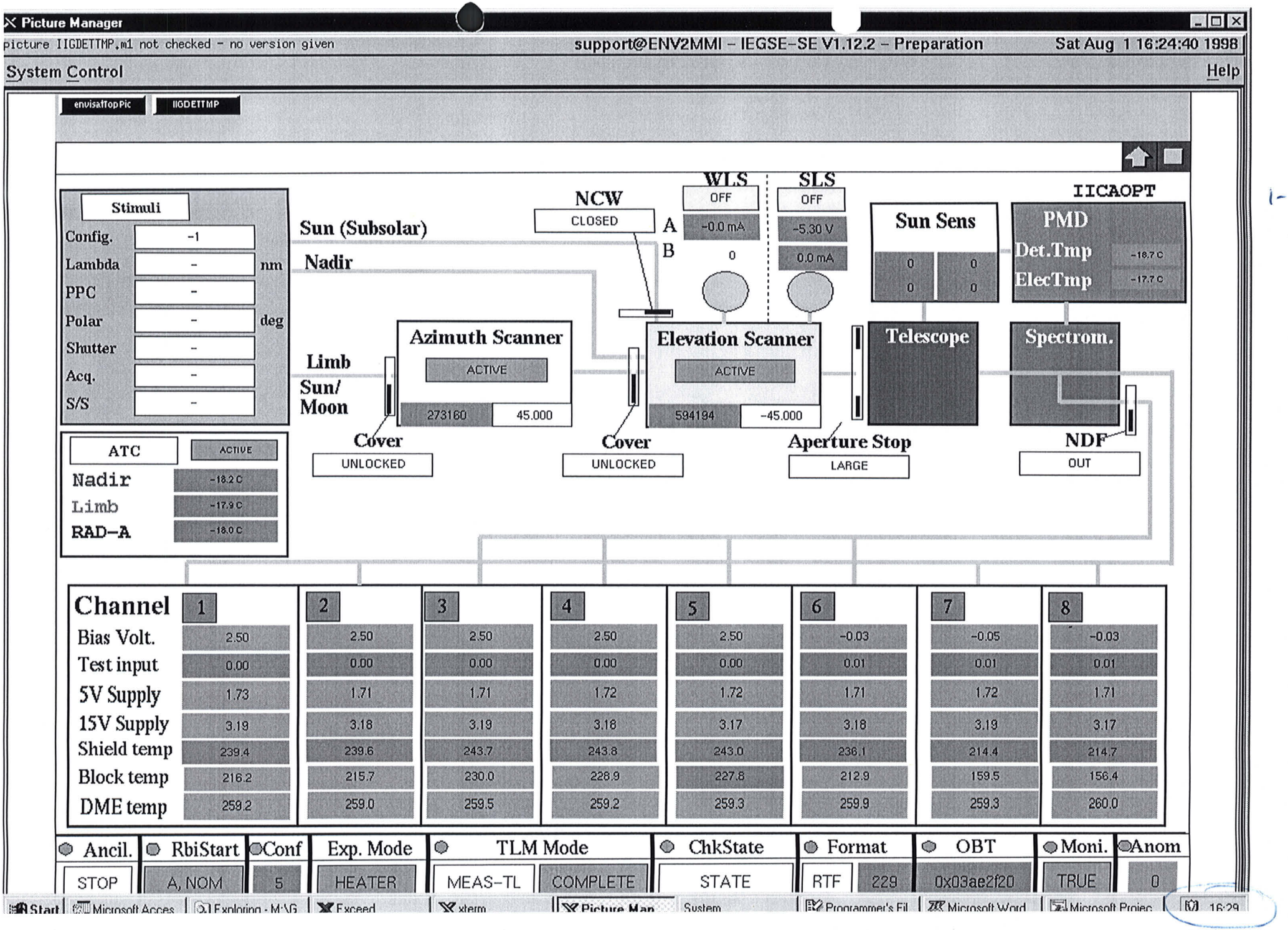


Channel 8

Pagenumber:

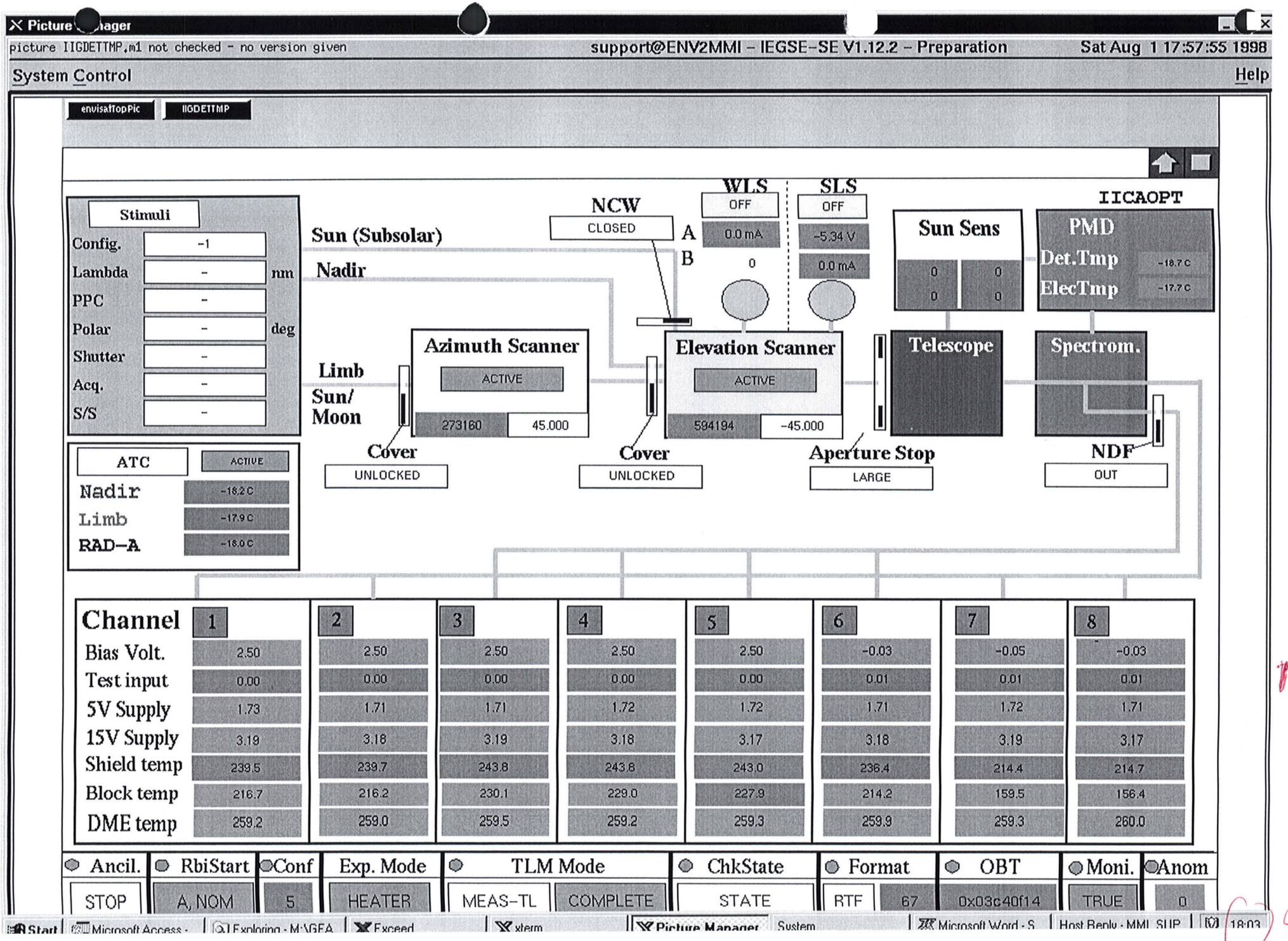
LOG SHEET SCIAMACHY CALIBRATION

date/time	description of action	measuremement filename
1-8	Temperature change started	
16:04 (UTC)	Set A4 ~~to~~ from −67,8 to −63,2	
	left A5 at −128,9	
	goal 230 K for channel 5	


Picture Manager
picture IIGDETTMP.m1 not checked - no version given
support@ENV2MMI - IEGSE-SE V1.12.2 - Preparation
Sat Aug 1 16:24:40 1998
System Control
Help
envisatTopPic
IIGDETTMP
Stimuli
Config. -1
Lambda - nm
PPC -
Polar - deg
Shutter -
Acq. -
S/S -
Sun (Subsolar)
Nadir
Limb
Sun/ Moon
NCW
CLOSED
A
B
WLS
OFF
-0.0 mA
0
SLS
OFF
-5.30 V
0.0 mA
IICAOPT
Sun Sens
0 0
0 0
PMD
Det.Tmp -18.7 C
ElecTmp -17.7 C
Azimuth Scanner
ACTIVE
273160 45.000
Elevation Scanner
ACTIVE
594194 -45.000
Telescope
Spectrom.
Cover
UNLOCKED
Cover
UNLOCKED
Aperture Stop
LARGE
NDF
OUT
ATC ACTIVE
Nadir -18.2 C
Limb -17.9 C
RAD-A -18.0 C
Channel 1 2 3 4 5 6 7 8
Bias Volt. 2.50 2.50 2.50 2.50 2.50 -0.03 -0.05 -0.03
Test input 0.00 0.00 0.00 0.00 0.00 0.01 0.01 0.01
5V Supply 1.73 1.71 1.71 1.72 1.72 1.71 1.72 1.71
15V Supply 3.19 3.18 3.19 3.18 3.17 3.18 3.19 3.17
Shield temp 239.4 239.6 243.7 243.8 243.0 236.1 214.4 214.7
Block temp 216.2 215.7 230.0 228.9 227.8 212.9 159.5 156.4
DME temp 259.2 259.0 259.5 259.2 259.3 259.9 259.3 260.0
Ancil. STOP
RbiStart A, NOM
Conf 5
Exp. Mode HEATER
TLM Mode MEAS-TL COMPLETE
ChkState STATE
Format RTF 229
OBT 0x03ae2f20
Moni. TRUE
Anom 0
Start
Microsoft Acces
Exploring - M:\G
Exceed
xterm
Picture Man
System
Programmer's Fil
Microsoft Word
Microsoft Projec
16:29

1-8

UTC


Picture Manager
picture IIGDETTMP.m1 not checked - no version given
support@ENV2MMI - IEGSE-SE V1.12.2 - Preparation
Sat Aug 1 17:57:55 1998
System Control
Help
envisatTopPic
IIGDETTMP
Stimuli
Config. -1
Lambda - nm
PPC -
Polar - deg
Shutter -
Acq. -
S/S -
ATC ACTIVE
Nadir -16.2 C
Limb -17.9 C
RAD-A -16.0 C
Sun (Subsolar)
Nadir
Limb
Sun/
Moon
NCW
CLOSED
A
B
WLS
OFF
0.0 mA
0
SLS
OFF
-5.34 V
0.0 mA
Sun Sens
0 0
0 0
IICAOPT
PMD
Det.Tmp -18.7 C
ElecTmp -17.7 C
Azimuth Scanner
ACTIVE
273160 45.000
Elevation Scanner
ACTIVE
594194 -45.000
Telescope
Spectrom.
Cover
UNLOCKED
Cover
UNLOCKED
Aperture Stop
LARGE
NDF
OUT
Channel 1 2 3 4 5 6 7 8
Bias Volt. 2.50 2.50 2.50 2.50 2.50 -0.03 -0.05 -0.03
Test input 0.00 0.00 0.00 0.00 0.00 0.01 0.01 0.01
5V Supply 1.73 1.71 1.71 1.72 1.72 1.71 1.72 1.71
15V Supply 3.19 3.18 3.19 3.18 3.17 3.18 3.19 3.17
Shield temp 239.5 239.7 243.8 243.8 243.0 236.4 214.4 214.7
Block temp 216.7 216.2 230.1 229.0 227.9 214.2 159.5 156.4
DME temp 259.2 259.0 259.5 259.2 259.3 259.9 259.3 260.0
Ancil. STOP
RbiStart A, NOM
Conf 5
Exp. Mode HEATER
TLM Mode MEAS-TL COMPLETE
ChkState STATE
Format RTF 67
OBT 0x03c40f14
Moni. TRUE
Anom 0
Start
Microsoft Access -
Exploring - M:\GEA
Exceed
xterm
Picture Manager
System
Microsoft Word - S
Host Reply - MMI SUP
18:03

8-8

UTC

Pagenumber:

LOG SHEET SCIAMACHY CALIBRATION

date/time	description of action	measuremement filename
2-8-98	~~73.~~	0214-03.3553
7:30 UTC	Team 2: performed measurement of gen-nadir with NDF	-gen-NDF-nADir
	Team 3: performed analyses in Directory: DATA-DIR/RAD-nADIR/10)	
	+ Ratio with §2.3	
	~~DIR-DATA-DIR/RAD-nadir/8~~	
	(DIR: DATA-DIR/RAD-nADIR/8).	
	Output of RATio at end of package of §2.7d.	

Formal Run of Measurement

(Measurement ID) gen_ndf_nadir

Request for Actual Status		(cross out entries that are **not** requested.)
Request for Modification		(fill in only entries to be modified)
Request for Run	X	(no entries = run based on actual default settings)

Scanner Positions

Azimuth	+45	deg
Elevation	-45	deg ✓

Timeline for each Data Acquisition Period during Measurement

	1	2	3	4	5	6	7	8	9	10
State ID	34									
Repetitions	10									

State Parameters for States used in Timeline (State ID must be given)

Channel	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding
1a	64	1						
1b	64	1						
2b	8	8						
2a	8	8						
3	4	16						
4	2	32						
5	2	32						
6	0,5	64						
7	0,5	64						
8	1	64						
State ID								

Stimuli Settings for Existing Blocks in Measurement

Block No	Stimuli Setup ID	PPC [deg]	Polarizer [deg]	Shutter open/close	Acquisition time [s]	Lambda [nm] Start	Stop	Step	Repetition Factor	Message	OS Setup Time [s]
1	0	-	-	-	-	-	-	-	0	1 RU1	0
2	0	-	-	-	-	-	-	-	0	1 DU1	0

Measurement Data Description

Test Purpose	
Remark	UID 36
Data Directory	C214-03.3553

Signatures

	Date	Signature
Issued	2-8-98	SMD
< Performed	9-3-98	

Nadir radiance

STEP	ACTION	RESULT	MARKER
Intro	Your name:	G. Otter	
	Date:	2-8-1998	
	What's the name of the (main) data input files generated by the EGSE? (*.dat)	scia_02081998_035155740	(A)
	Setup a three-window configuration on your SUN.		see course descr.
Cnstr directory	cd ~/DATA-DIR/RAD-NADIR ; ls -l		Note: In window DATA-DIR
	highest number in directory?	9	(B)
	New directory: mkdir <B+1> ls -l What's now the highest number in directory?	10	(C)
	<C> should be <B> + 1	Y / N	
	directory name is:	~/DATA-DIR/RAD-NADIR/<C>	(DIR-NAME)
Copy data	See Analysis sheet: Transfer Data File	(Y) / N	In DATA-DIR window
Cnstr EGSE_LTF	cal_raw2ltf . (Error messages are not necessarily fatal; check with SOLAN --in solan window-- whether output file is okay: there should be a signal present, and dremark1 labels should be filled) ls -l *.egse_ltf		Note: In window DATA-DIR; ***don't forget the dot !!!;*** *May take more than 15 mins.*
	What's the name of the egse_ltf file	scia_02081998_035155740	(D)
	<D> should be <A>.egse_ltf	(Y) / N	
Cnstr CAL files	idl run_averscia (and select file <D> when asked)		Note: In window IDL
Check CAL files	Dark files: ls -l *du*.avg.cal		In DATA-DIR window
	size:	146 kb	should be approx 150Kb

`ls -l *ru*.avg.cal`

size: 146 kb — should be approx 150Kb

Note: all files should be present, if not:
(a) Check file <D> using SOLAN and check whether DU, and IU labels are present in dremark1 labels
(b) Check if enough disk space is available (Unix command `df -k | more`).

Print postscript

Print postscript files:
`lpr -P<printer> *.ps`
Contents dark file `*du*.avg.cal.ps` should be approx. constant within channels: Y / N — not completly dark
Contents light file `*ru*.avg.cal.ps` should resemble white light source: Y / N

Contents of `*rel_std*.ps` files should be smaller than 0.01 (pixel 300 -- 800) for all channels. Y / N

If not, value is: _____

Add postscript images to logbook, done Y / N

Print logfiles

`lpr -P<printer> *.log`
Add logfiles to logbook, done Y / N

Radiance processing

Run radiance

`idl do_radiance` — In IDL window

Check radiance

`ls -l * | more` — In DATA-DIR window

Size of file `<D>.du*.avg.cal.p1.cal` 146 kb — should be approx 150Kb

Size of file
<D>.du*.avg.cal.p2.cal _____14666_____

Check radiance visually

```
lpr -P<printer>
*.p[12].*.cal.ps
```

Value of P1 and P2 file resemble white light source? (Y) / N

Add postscript images to logbook, done (Y) / N

Print logfiles

```
lpr -P<printer>
*.p[12].cal.log
```

Add logfiles to logbook, done (Y) / N

Back up

Create 3 sets of backup CDs of directory <DIR-NAME> (One CD has a capacity of 600 Mbytes, the UNIX command `/usr/bin/du -k .` gives the number of kilo bytes in the current directory).

See analysis sheet BackUp

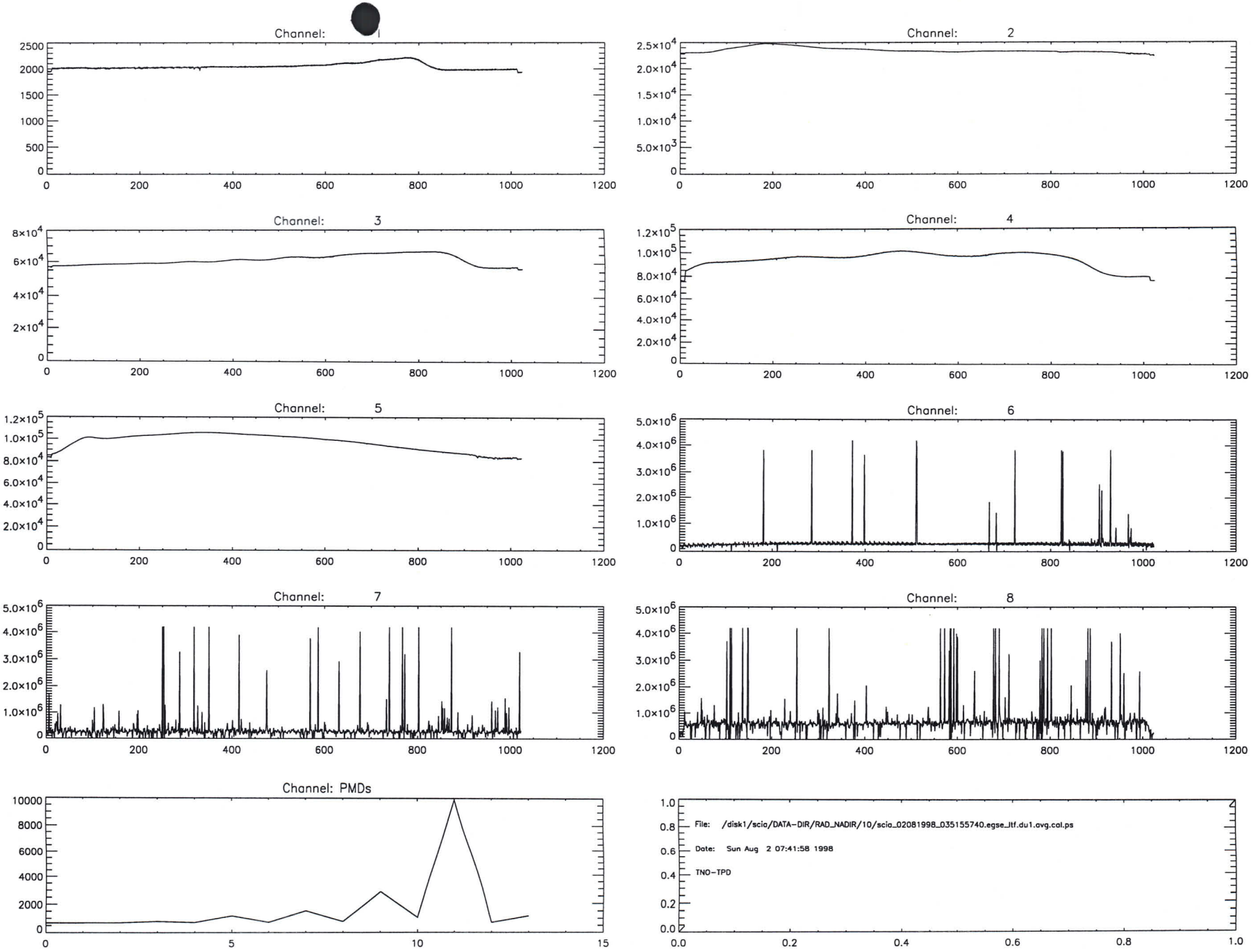
Name of backup CDs _____

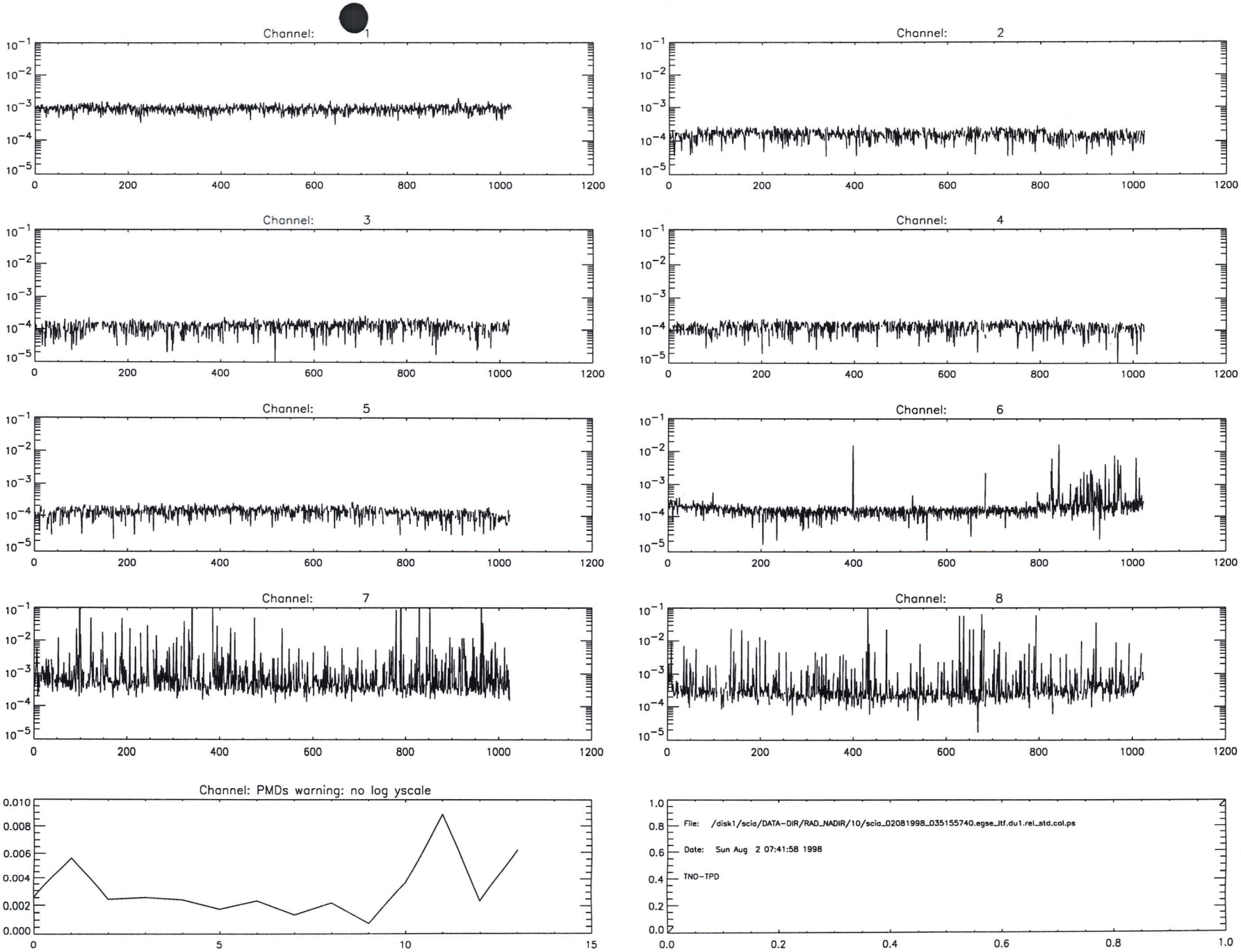
Sign:

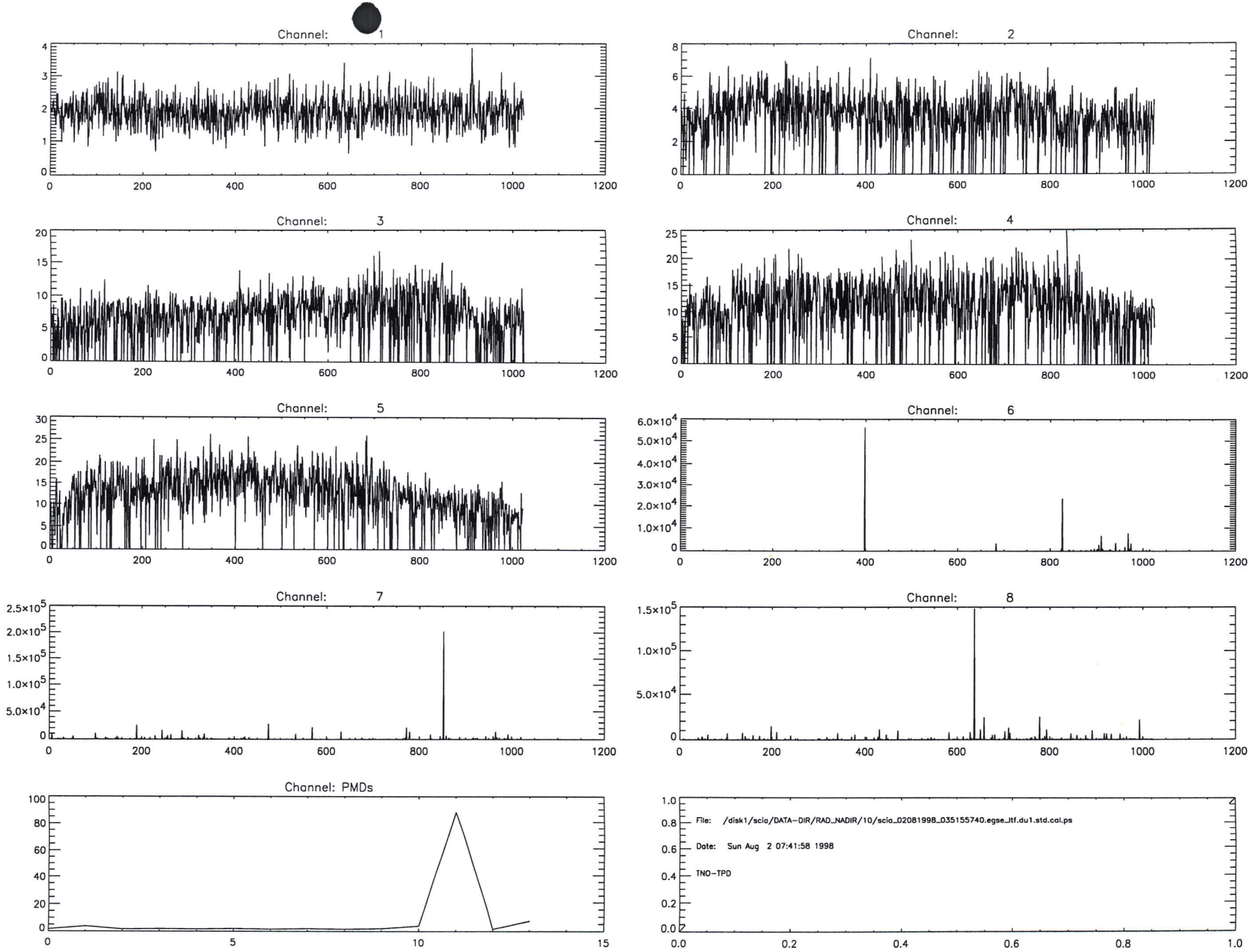
Name _____

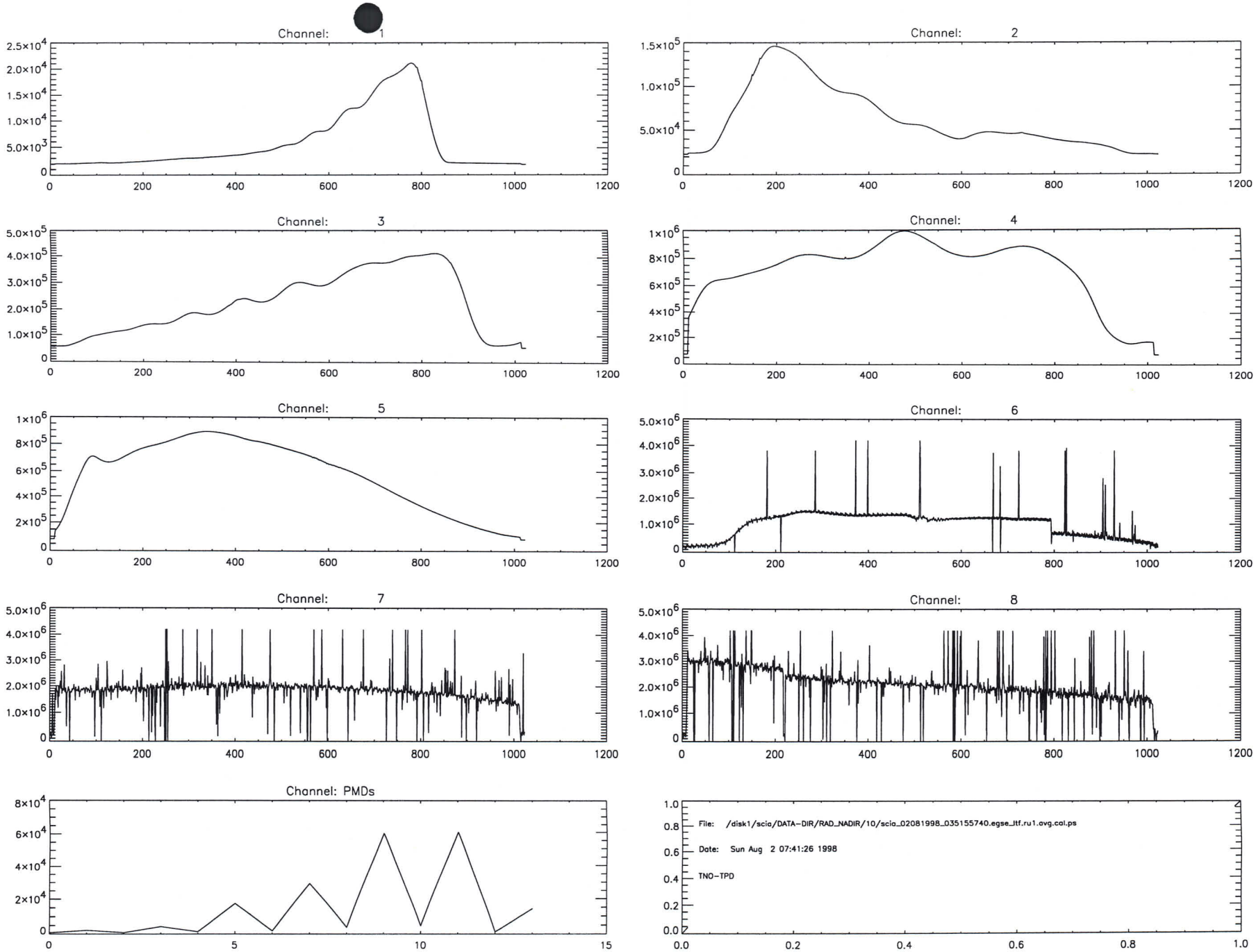
Date and time _____

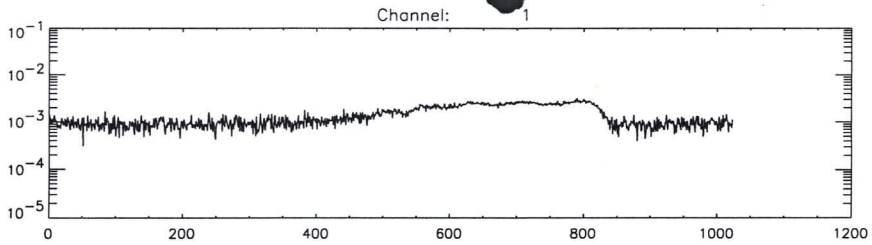
Signature _____

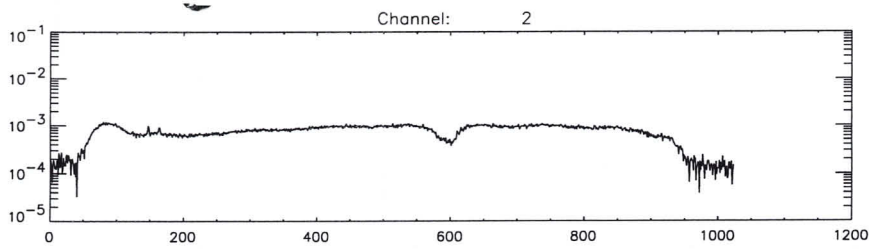

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_NADIR/10/scia_02081998_035155740.egse_ltf.du1.avg.cal.ps
Date: Sun Aug 2 07:41:58 1998
TNO-TPD

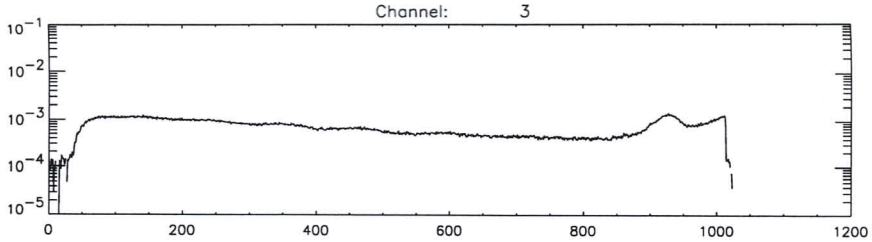

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs warning: no log yscale
File: /disk1/scia/DATA-DIR/RAD_NADIR/10/scia_02081998_035155740.egse_ltf.du1.rel_std.cal.ps
Date: Sun Aug 2 07:41:58 1998
TNO-TPD

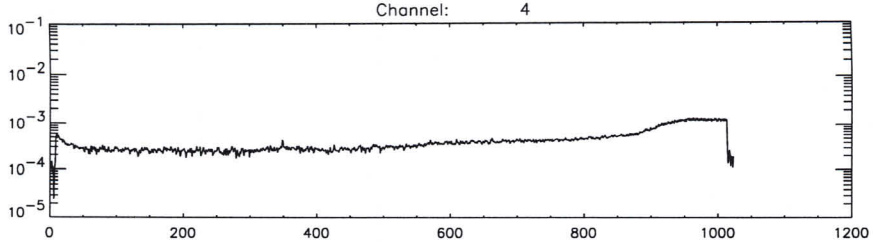

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_NADIR/10/scia_02081998_035155740.egse_itf.du1.std.cal.ps
Date: Sun Aug 2 07:41:58 1998
TNO-TPD

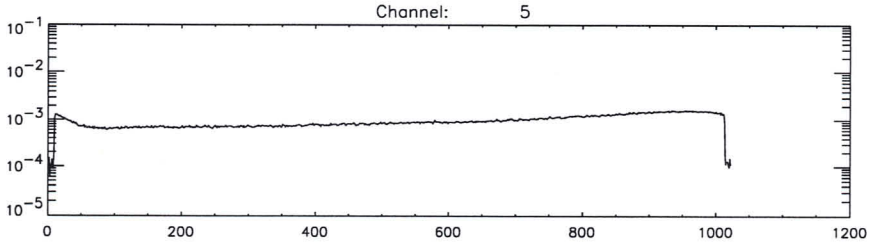

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_NADIR/10/scia_02081998_035155740.egse_itf.ru1.avg.cal.ps
Date: Sun Aug 2 07:41:26 1998
TNO-TPD

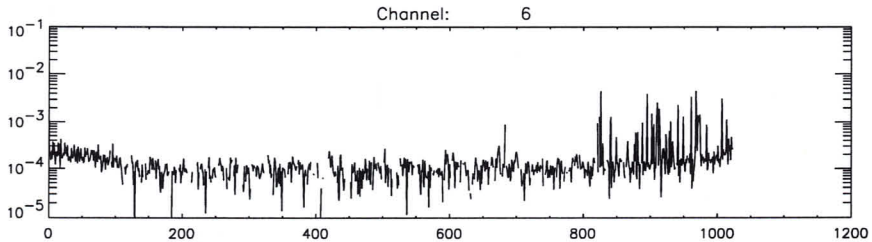

Channel: 1

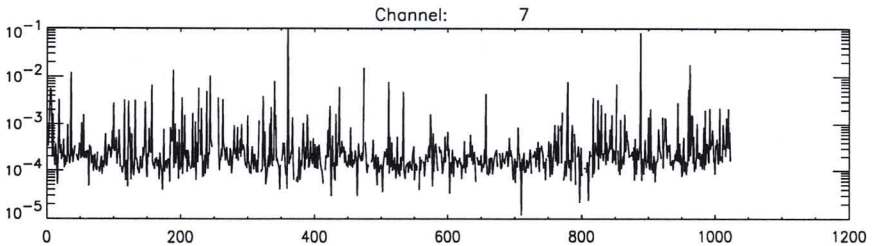

Channel: 2

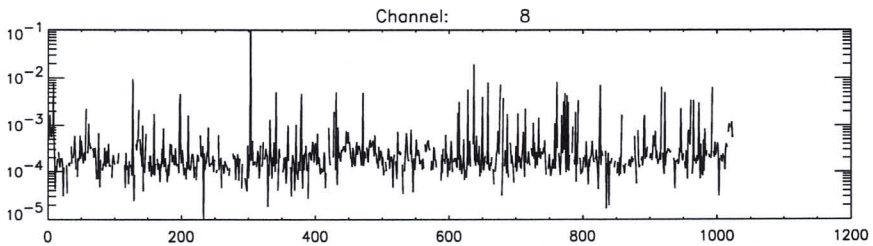

Channel: 3

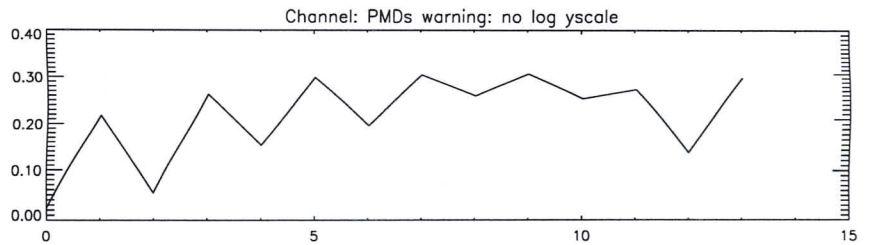

Channel: 4

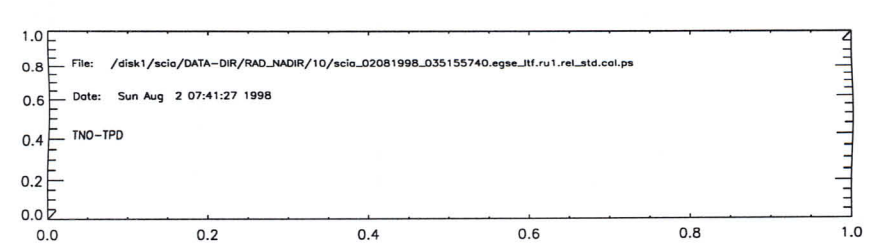

Channel: 5

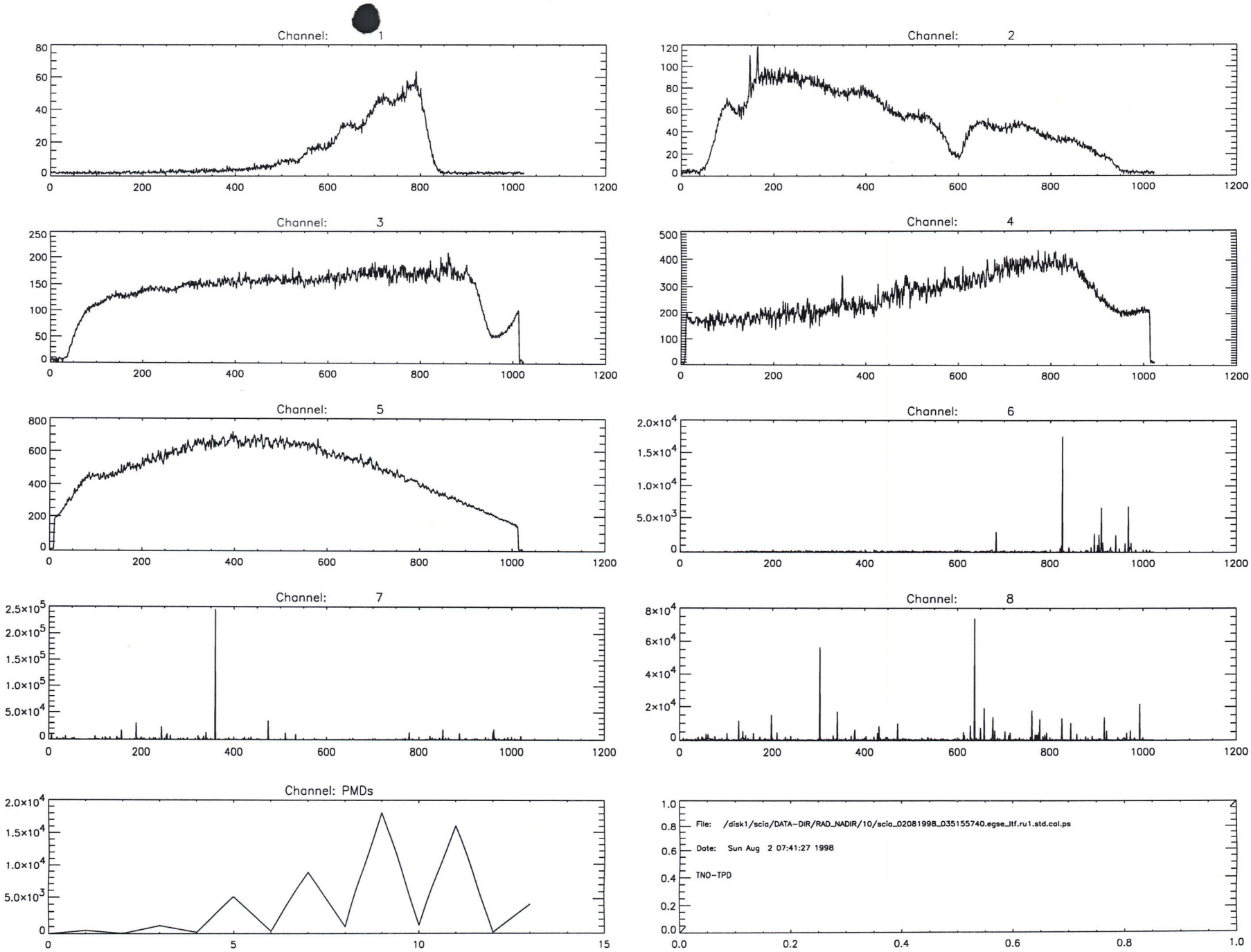

Channel: 6


Channel: 7


Channel: 8


Channel: PMDs warning: no log yscale


File: /disk1/scia/DATA-DIR/RAD_NADIR/10/scia_02081998_035155740.egse_ltf.ru1.rel_std.cal.ps
Date: Sun Aug 2 07:41:27 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_NADIR/10/scia_02081998_035155740.egse_ltf.ru1.std.col.ps
Date: Sun Aug 2 07:41:27 1998
TNO-TPD

Version: 0.1
Input files:

/disk1/scia/DATA-DIR/RAD_NADIR/10/scia_02081998_035155740.egse_ltf.du1.avg.cal
 and

/disk1/scia/DATA-DIR/RAD_NADIR/10/scia_02081998_035155740.egse_ltf.ru1.avg.cal
Action:
Radiance calibration: No correction bsdf, transmission and e_cal
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/310798/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/310798/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/310798/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/310798/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/310798/stray.da
Processing time: Sun Aug 2 07:53:31 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_NADIR/10/scia_02081998_035155740.egse_ltf.du1.avg.cal
Ambient files:
Ambient Correction file versions ac_ucp = # VERSION 0.0
ac_ucs = #VERSION 0.0
ala4lp = #VERSION 0.0
ala4ls = #VERSION 0.0
; 4lx = #VERSION 0.0
alamlp = #VERSION 0.0
alamls = #VERSION 0.0
alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
alaulp = #VERSION 0.0
alauls = #VERSION 0.0
anapnp = #VERSION 0.0
anapnx = #VERSION 0.0
anaunp = #VERSION 0.0 ASAP data
anauns = #VERSION 0.0 ASAP data
bsdf = #Date: 15/06/98 NOTE: This is preliminary data! The final keydata must
optec_window = #VERSION 0.0
reflectance = #VERSION 0.0

Version: 0.1
Input files:

/disk1/scia/DATA-DIR/RAD_NADIR/10/scia_02081998_035155740.egse_ltf.du1.avg.cal
 and

/disk1/scia/DATA-DIR/RAD_NADIR/10/scia_02081998_035155740.egse_ltf.ru1.avg.cal
Action:
Generation of PS file
Radiance calibration: No correction bsdf, transmission and e_cal
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/310798/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/310798/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/310798/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/310798/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/310798/stray.da
Processing time: Sun Aug 2 07:53:31 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_NADIR/10/scia_02081998_035155740.egse_ltf.du1.avg.cal
Ambient files:
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alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
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anapnx = #VERSION 0.0
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anauns = #VERSION 0.0 ASAP data
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Version: 0.1
Input files:

/disk1/scia/DATA-DIR/RAD_NADIR/10/scia_02081998_035155740.egse_ltf.du1.avg.cal
 and

/disk1/scia/DATA-DIR/RAD_NADIR/10/scia_02081998_035155740.egse_ltf.ru1.avg.cal
Action:
Radiance calibration + divided by calibrated irradiance + divded by bsdf + div
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/310798/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/310798/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/310798/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/310798/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/310798/stray.da
Processing time: Sun Aug 2 07:53:35 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_NADIR/10/scia_02081998_035155740.egse_ltf.du1.avg.cal
Ambient files:
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ɛ 4lx = #VERSION 0.0
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alamls = #VERSION 0.0
alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
alaulp = #VERSION 0.0
alauls = #VERSION 0.0
anapnp = #VERSION 0.0
anapnx = #VERSION 0.0
anaunp = #VERSION 0.0 ASAP data
anauns = #VERSION 0.0 ASAP data
bsdf = #Date: 15/06/98 NOTE: This is preliminary data! The final keydata must
optec_window = #VERSION 0.0
reflectance = #VERSION 0.0

Version: 0.1
Input files:

/disk1/scia/DATA-DIR/RAD_NADIR/10/scia_02081998_035155740.egse_ltf.du1.avg.cal
 and

/disk1/scia/DATA-DIR/RAD_NADIR/10/scia_02081998_035155740.egse_ltf.ru1.avg.cal
Action:
Generation of PS file
Radiance calibration + divided by calibrated irradiance + divded by bsdf + div
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/310798/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/310798/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/310798/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/310798/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/310798/stray.da
Processing time: Sun Aug 2 07:53:35 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_NADIR/10/scia_02081998_035155740.egse_ltf.du1.avg.cal
Ambient files:
Ambient Correction file versions ac_ucp = # VERSION 0.0
ac_ucs = #VERSION 0.0
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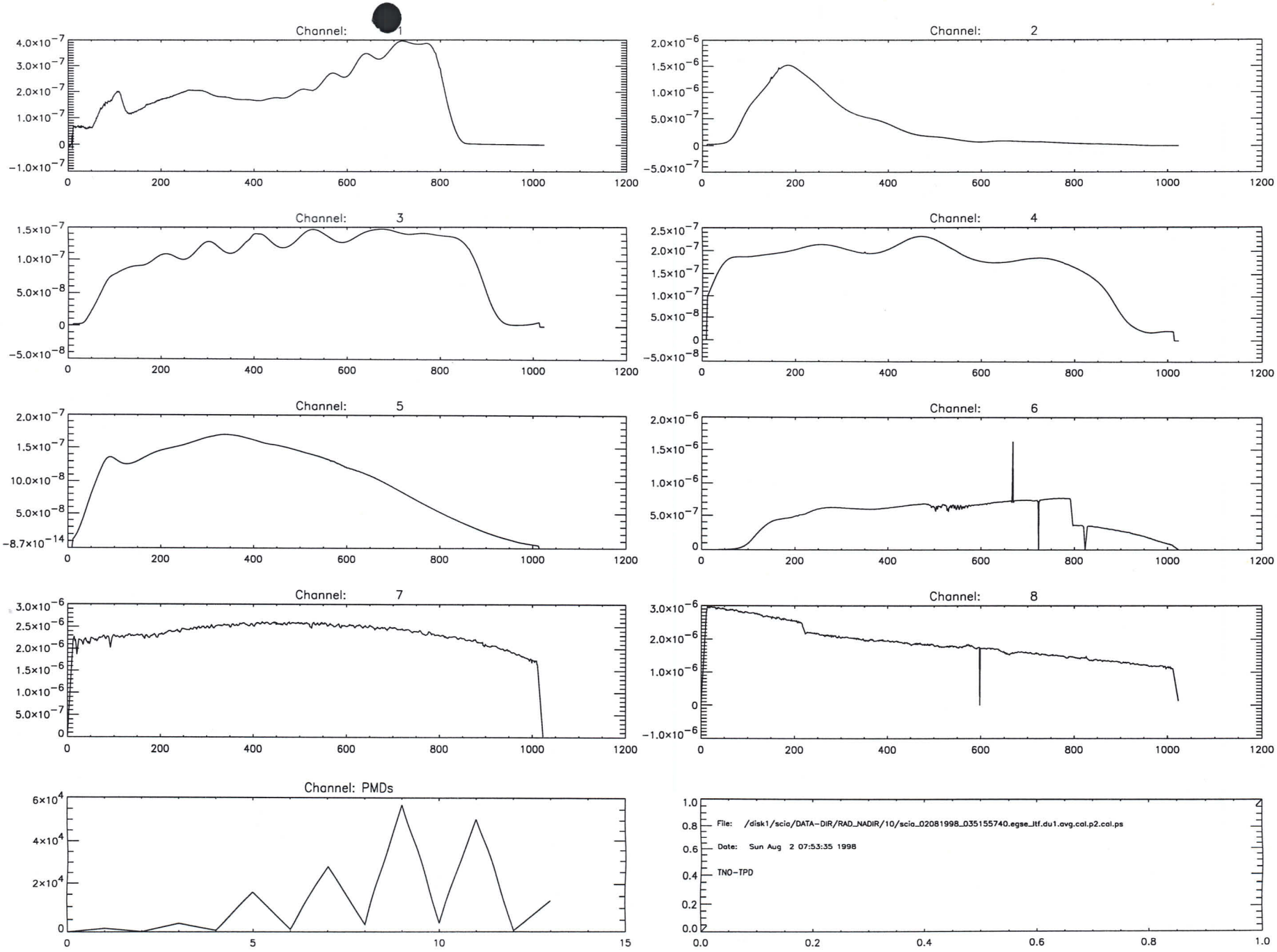
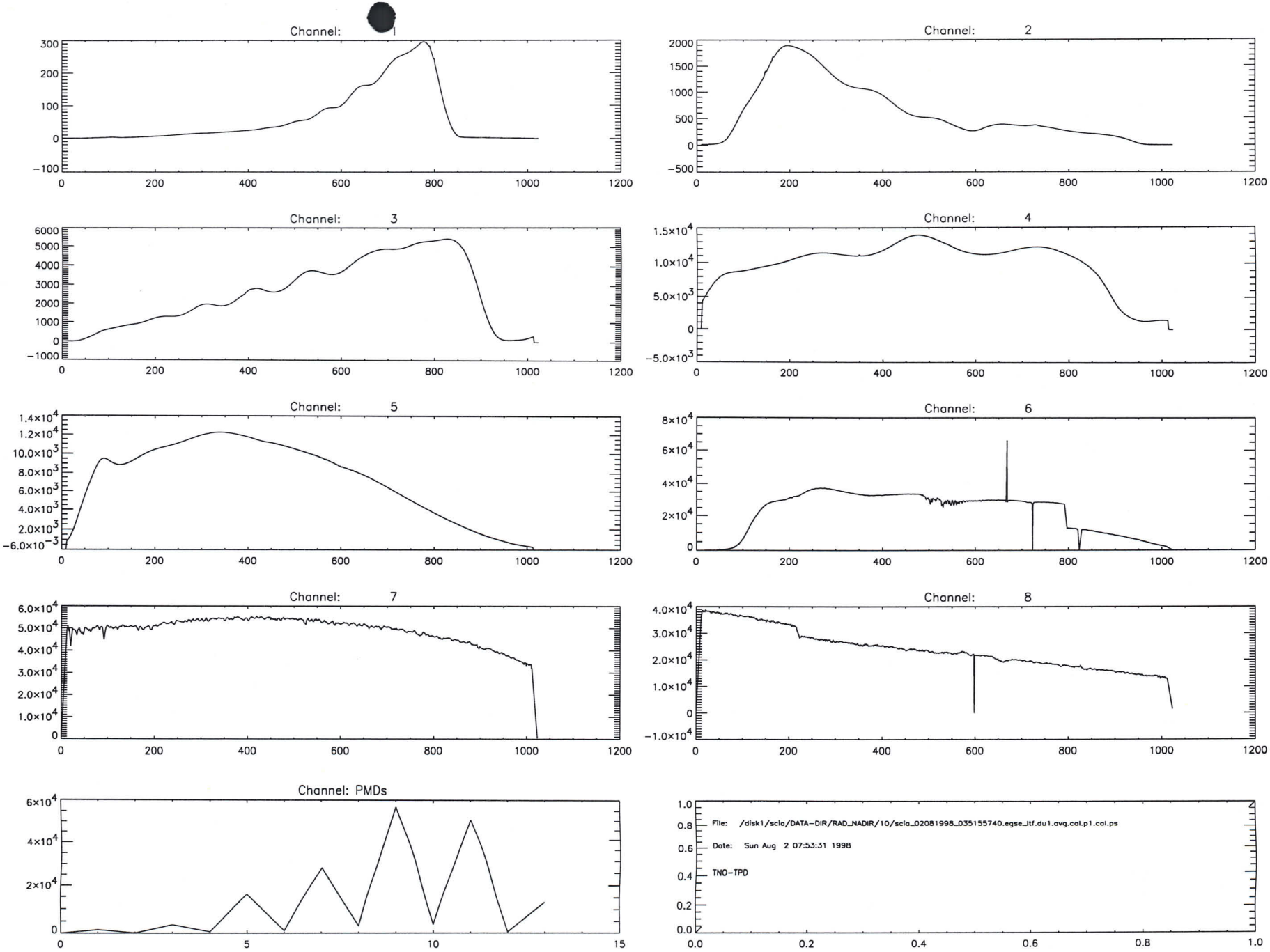
a 4ls = #VERSION 0.0
ala4lx = #VERSION 0.0
alamlp = #VERSION 0.0
alamls = #VERSION 0.0
alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
alaulp = #VERSION 0.0
alauls = #VERSION 0.0
anapnp = #VERSION 0.0
anapnx = #VERSION 0.0
anaunp = #VERSION 0.0 ASAP data
anauns = #VERSION 0.0 ASAP data
bsdf = #Date: 15/06/98 NOTE: This is preliminary data! The final keydata must
optec_window = #VERSION 0.0
reflectance = #VERSION 0.0

```
time       = Sun Aug  2 07:41:58 1998
batch      = du1
Start TOD = Sun 02-Aug-98 04:05:50
End   TOD = Sun 02-Aug-98 04:17:26
Processing= computation of average, standard dev. and rel.standard dev.
```

```
time       = Sun Aug  2 07:41:27 1998
batch      = ru1
Start TOD = Sun 02-Aug-98 03:52:17
End   TOD = Sun 02-Aug-98 04:05:50
Processing= computation of average, standard dev. and rel.standard dev.
```


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_NADIR/10/scia_02081998_035155740.egse_ltf.du1.avg.cal.p2.cal.ps
Date: Sun Aug 2 07:53:35 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_NADIR/10/scia_02081998_035155740.egse_ltf.du1.avg.cal.p1.cal.ps
Date: Sun Aug 2 07:53:31 1998
TNO-TPD

Version: 0.1
Input files:

/disk1/scia/DATA-DIR/RAD_NADIR/10/scia_02081998_035155740.egse_ltf.du1.avg.cal
 and

/disk1/scia/DATA-DIR/RAD_NADIR/10/scia_02081998_035155740.egse_ltf.ru1.avg.cal
Action:
Radiance calibration + divided by calibrated irradiance + divded by bsdf + div
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/310798/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/310798/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/310798/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/310798/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/310798/stray.da
Processing time: Sun Aug 2 07:53:35 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_NADIR/10/scia_02081998_035155740.egse_ltf.du1.avg.cal
Ambient files:
Ambient Correction file versions ac_ucp = # VERSION 0.0
ac_ucs = #VERSION 0.0
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ala4ls = #VERSION 0.0
a 4lx = #VERSION 0.0
a4amlp = #VERSION 0.0
alamls = #VERSION 0.0
alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
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alauls = #VERSION 0.0
anapnp = #VERSION 0.0
anapnx = #VERSION 0.0
anaunp = #VERSION 0.0 ASAP data
anauns = #VERSION 0.0 ASAP data
bsdf = #Date: 15/06/98 NOTE: This is preliminary data! The final keydata must
optec_window = #VERSION 0.0
reflectance = #VERSION 0.0

Version: 0.1
Input files:

/disk1/scia/DATA-DIR/RAD_NADIR/10/scia_02081998_035155740.egse_ltf.du1.avg.cal
 and

/disk1/scia/DATA-DIR/RAD_NADIR/10/scia_02081998_035155740.egse_ltf.ru1.avg.cal
Action:
Radiance calibration: No correction bsdf, transmission and e_cal
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/310798/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/310798/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/310798/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/310798/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/310798/stray.da
Processing time: Sun Aug 2 07:53:31 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_NADIR/10/scia_02081998_035155740.egse_ltf.du1.avg.cal
Ambient files:
Ambient Correction file versions ac_ucp = # VERSION 0.0
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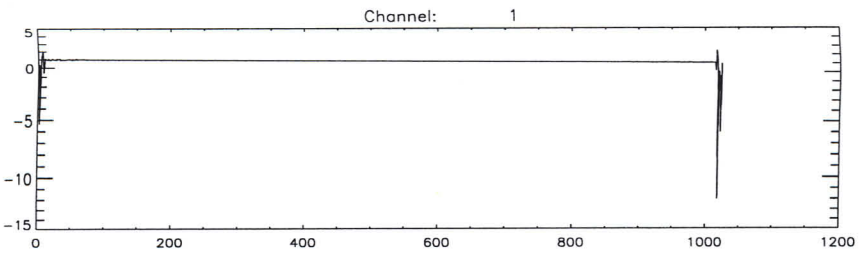
alamls = #VERSION 0.0
alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
alaulp = #VERSION 0.0
alauls = #VERSION 0.0
anapnp = #VERSION 0.0
anapnx = #VERSION 0.0
anaunp = #VERSION 0.0 ASAP data
anauns = #VERSION 0.0 ASAP data
bsdf = #Date: 15/06/98 NOTE: This is preliminary data! The final keydata must
optec_window = #VERSION 0.0
reflectance = #VERSION 0.0

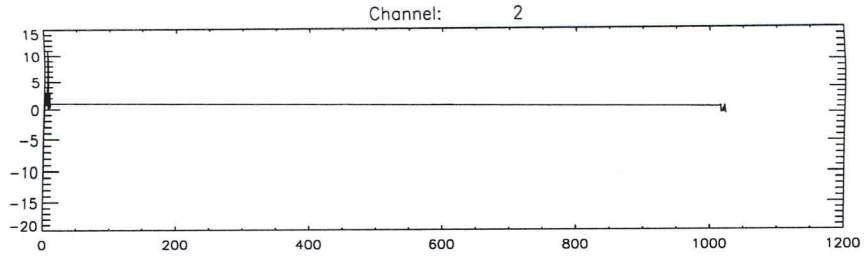
STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	A. Bos 2-8-98	
	What's the name of the (main) data input file that you want to store in the SOC directory?	Scia_020898_035155740.gde-1.sf.	(A)
	Setup a three-window configuration on your SUN.		See course descr.
Do ratio	`idl do_ratio` Let <D1> be the first selected dark file name		In IDL window
	Full path name of <D1> ls -l <D1>.div.cal		In DATA window
	size of <D1>.div.cal		Approx. 140 kB
	lpr -P<printer> <D1>.div.cal.ps Add postscript image to logbook, Done?	Y / N	In DATA Window
Back up	Create 3 sets of backup CDs of directory `~/DATA-DIR/START-OF-CALIBRATION` (One CD has a capacity of 600 Mbytes, the UNIX command `/usr/bin/du -k .` gives the number of kilo bytes in the current directory). Name of backup CDs		See analysis sheet BackUp
Sign:	Name Date and time Signature		

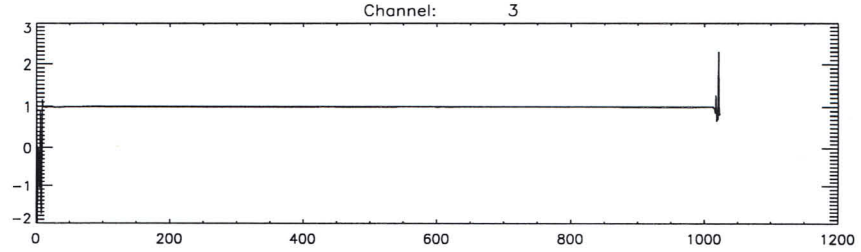
note that the do_ratio procedure asks:
1/ ~~one~~ a dark file
2/ a corresponding light file
3/ a second dark file
4/ a corresponding light file.

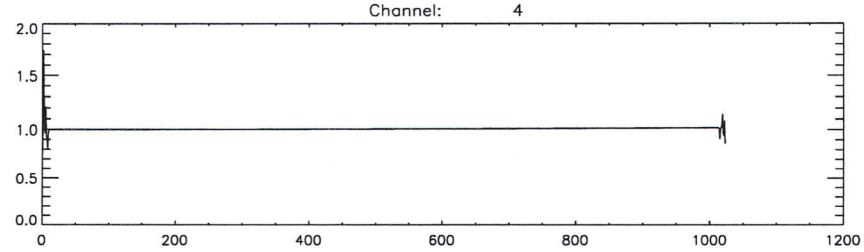
nadir_10/nadir_8

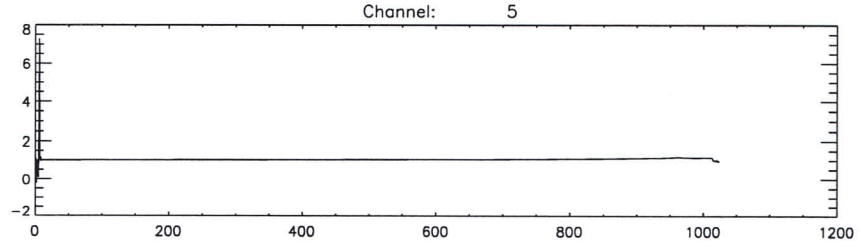
OUTPUT RATIO

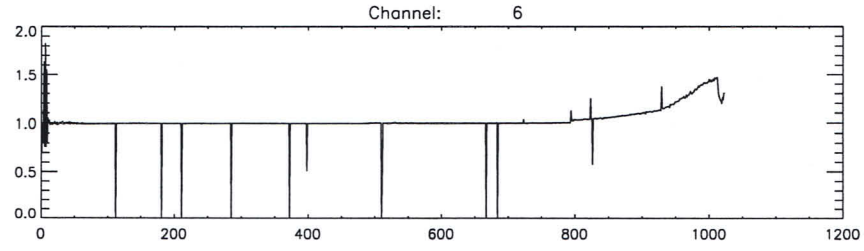


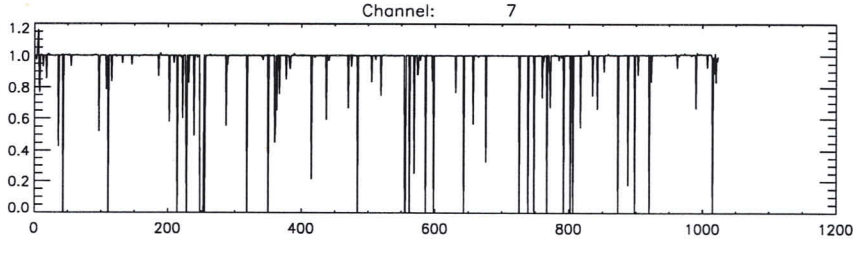


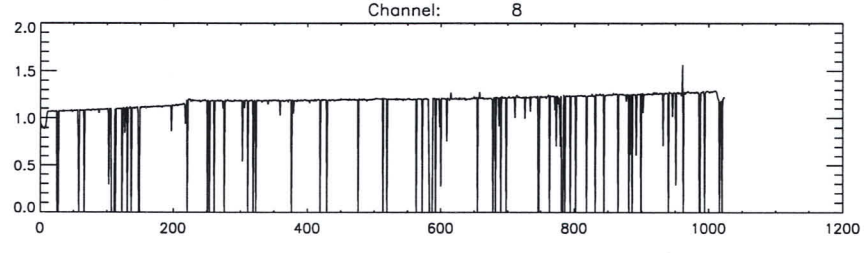


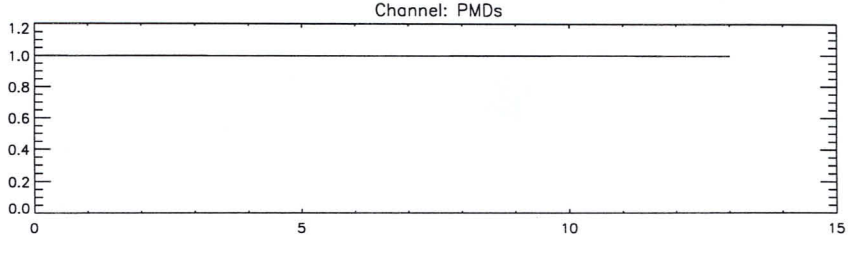


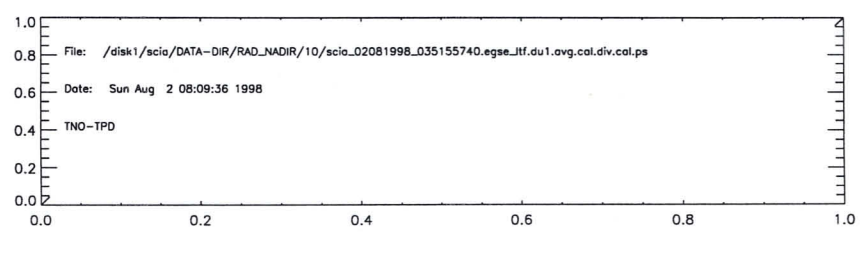












STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	G. Otter 2-0-1998	

Backup data	Let <D> be the directory you want to backup.
	`cd <D>`
	`mk_filetr`
	`ls -l | more`
	Are the files l_names and s_names present?
	If not, are you sure that the function `mk_filetr` executed?
	`./s_names`
	ls -l more
	All file names of the form `f<digit>`?
	`lpr -P<printer>`
	`s_names l_names`
	Add output to log book, done?
		(Y) / N
		
		(Y) ? N
		
		(Y) / N	

	Via ftp on CD-writer PC: copy files in directory <D> (including s_names and s_names) to PC (On PC maintain directory structure of DATA-DIR).	files in directory on PC	✓
Backup CORR directory	Do always Let <D> be the directory `~/DATA-DIR/CORR`		
	Via ftp on CD-writer PC: copy files in directory <D> to PC (On PC maintain directory structure of DATA-DIR). So, you write the whole contents of the `DATA-DIR/CORR` directory.	files in directory on PC	✓
Backup:	Write 3CDs (Follow JGS' Gear instructions), Done?	(Y) / N	
Back up On MOD:	Copy (via FTP) data from SUN named `scia6` to SUN named `tpdezo`.		

Instructions printed = master map

Copy to MOD (Follow instructions in file `/home/drz/DOC/MOD*`) Note, normally, you don't have to mount the MOD. Update

Copy contents of one CD (or via ftp) on the two other SUN workstations that are used for offline analysis, Done? Y / N

Sign: Name _____
Date and time _____
Signature _____

#####
#####
#####
#####
#####
User: scia6!scia
#####
Title: l_names
#####
scia6
#####
Printed: Sun 11:53 Aug 02, 1998
#####
Job number: hp6mp-391
#####
#####
#####
#####
#####

```
#! /bin/sh
mv dapbseqlog f0
mv scia_02081998_035155740.dat f1
mv scia_02081998_035155740.egse_ltf f2
mv scia_02081998_035155740.egse_ltf.du1.avg.cal f3
mv scia_02081998_035155740.egse_ltf.du1.avg.cal.div.cal f4
mv scia_02081998_035155740.egse_ltf.du1.avg.cal.div.cal.log f5
mv scia_02081998_035155740.egse_ltf.du1.avg.cal.div.cal.ps f6
mv scia_02081998_035155740.egse_ltf.du1.avg.cal.div.cal.ps.log f7
mv scia_02081998_035155740.egse_ltf.du1.avg.cal.p1.cal f8
mv scia_02081998_035155740.egse_ltf.du1.avg.cal.p1.cal.log f9
mv scia_02081998_035155740.egse_ltf.du1.avg.cal.p1.cal.ps f10
mv scia_02081998_035155740.egse_ltf.du1.avg.cal.p1.cal.ps.log f11
mv scia_02081998_035155740.egse_ltf.du1.avg.cal.p2.cal f12
mv scia_02081998_035155740.egse_ltf.du1.avg.cal.p2.cal.keydata f13
mv scia_02081998_035155740.egse_ltf.du1.avg.cal.p2.cal.log f14
mv scia_02081998_035155740.egse_ltf.du1.avg.cal.p2.cal.ps f15
mv scia_02081998_035155740.egse_ltf.du1.avg.cal.p2.cal.ps.log f16
mv scia_02081998_035155740.egse_ltf.du1.avg.cal.ps f17
mv scia_02081998_035155740.egse_ltf.du1.log f18
mv scia_02081998_035155740.egse_ltf.du1.rel_std.cal f19
mv scia_02081998_035155740.egse_ltf.du1.rel_std.cal.ps f20
r   scia_02081998_035155740.egse_ltf.du1.std.cal f21
mv scia_02081998_035155740.egse_ltf.du1.std.cal.ps f22
m  scia_02081998_035155740.egse_ltf.ru1.avg.cal f23
mv scia_02081998_035155740.egse_ltf.ru1.avg.cal.ps f24
mv scia_02081998_035155740.egse_ltf.ru1.log f25
mv scia_02081998_035155740.egse_ltf.ru1.rel_std.cal f26
mv scia_02081998_035155740.egse_ltf.ru1.rel_std.cal.ps f27
mv scia_02081998_035155740.egse_ltf.ru1.std.cal f28
mv scia_02081998_035155740.egse_ltf.ru1.std.cal.ps f29
```

```
#! /bin/sh
mv f0 dapbseqlog
mv f1 scia_02081998_035155740.dat
mv f2 scia_02081998_035155740.egse_ltf
mv f3 scia_02081998_035155740.egse_ltf.du1.avg.cal
mv f4 scia_02081998_035155740.egse_ltf.du1.avg.cal.div.cal
mv f5 scia_02081998_035155740.egse_ltf.du1.avg.cal.div.cal.log
mv f6 scia_02081998_035155740.egse_ltf.du1.avg.cal.div.cal.ps
mv f7 scia_02081998_035155740.egse_ltf.du1.avg.cal.div.cal.ps.log
mv f8 scia_02081998_035155740.egse_ltf.du1.avg.cal.p1.cal
mv f9 scia_02081998_035155740.egse_ltf.du1.avg.cal.p1.cal.log
mv f10 scia_02081998_035155740.egse_ltf.du1.avg.cal.p1.cal.ps
mv f11 scia_02081998_035155740.egse_ltf.du1.avg.cal.p1.cal.ps.log
mv f12 scia_02081998_035155740.egse_ltf.du1.avg.cal.p2.cal
mv f13 scia_02081998_035155740.egse_ltf.du1.avg.cal.p2.cal.keydata
mv f14 scia_02081998_035155740.egse_ltf.du1.avg.cal.p2.cal.log
mv f15 scia_02081998_035155740.egse_ltf.du1.avg.cal.p2.cal.ps
mv f16 scia_02081998_035155740.egse_ltf.du1.avg.cal.p2.cal.ps.log
mv f17 scia_02081998_035155740.egse_ltf.du1.avg.cal.ps
mv f18 scia_02081998_035155740.egse_ltf.du1.log
mv f19 scia_02081998_035155740.egse_ltf.du1.rel_std.cal
mv f20 scia_02081998_035155740.egse_ltf.du1.rel_std.cal.ps
  f21 scia_02081998_035155740.egse_ltf.du1.std.cal
mv f22 scia_02081998_035155740.egse_ltf.du1.std.cal.ps
  f23 scia_02081998_035155740.egse_ltf.ru1.avg.cal
mv f24 scia_02081998_035155740.egse_ltf.ru1.avg.cal.ps
mv f25 scia_02081998_035155740.egse_ltf.ru1.log
mv f26 scia_02081998_035155740.egse_ltf.ru1.rel_std.cal
mv f27 scia_02081998_035155740.egse_ltf.ru1.rel_std.cal.ps
mv f28 scia_02081998_035155740.egse_ltf.ru1.std.cal
mv f29 scia_02081998_035155740.egse_ltf.ru1.std.cal.ps
```

Pagenumber:

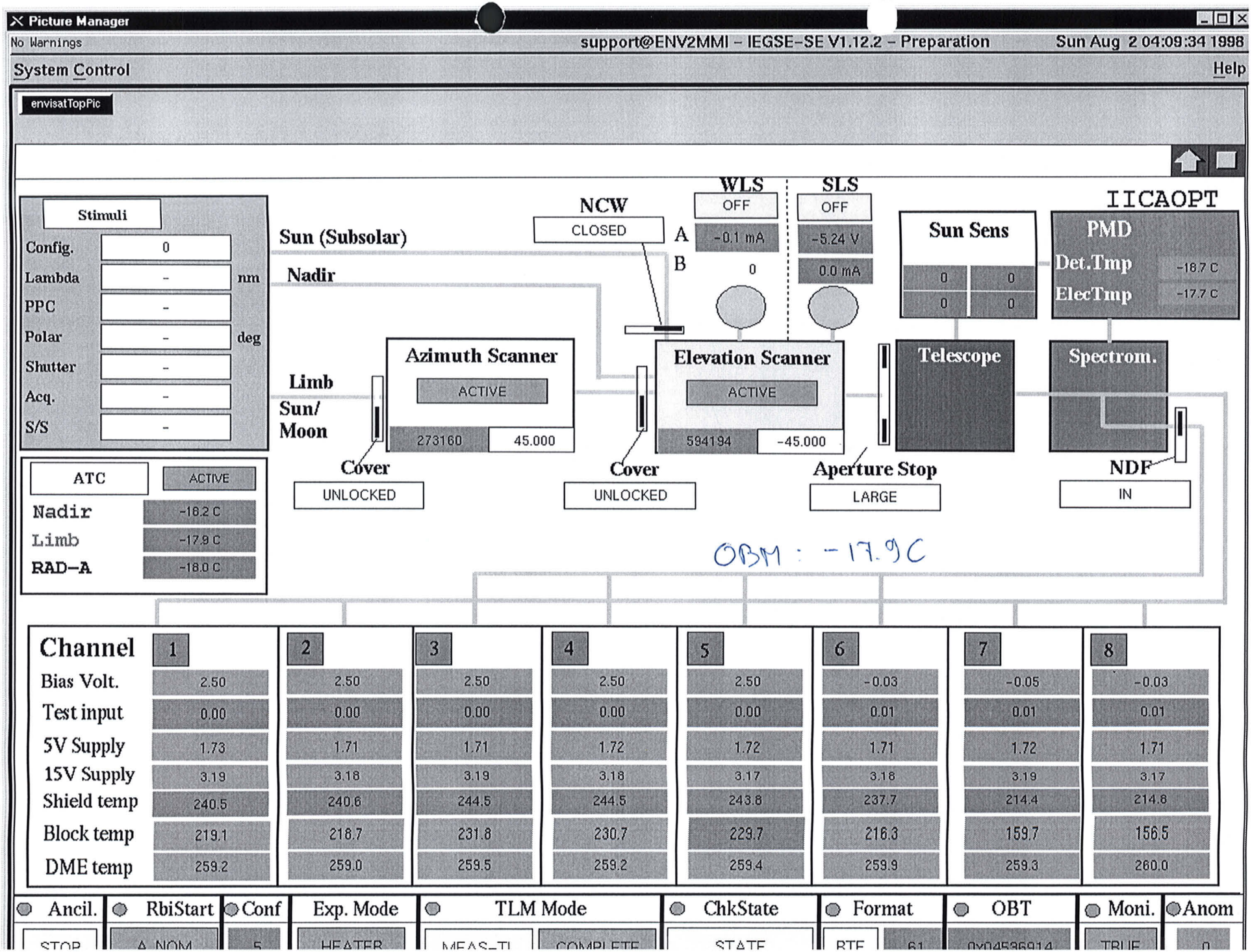
LOG SHEET SCIAMACHY CALIBRATION

date/time	description of action	measurement filename
2-8-1998	Team 2: we hebben een Xsi meting (Xsi_2) opgestart met als primair doel	
	een file te krijgen zodat we deze door de analyse software kunnen halen	
	en controleren op afwijking t.o.v. onze verwachtingen.	
	Voor de meting hebben we de optiek NIET uitgelijnd, het ging alleen	
	om een datafile. Ontvanger gaat niet goed en de operator kan dit niet	
	oplossen. T. Mißen moet dit oplossen. Verder loopt de meting wel goed en de analyse	gaat ook goed
01.00 UTC	temperaturen van de channels 1-8:	
	1) 218,8 5) 229,4	
	2) 218,4 6) 216,2	
	3) 231,4 7) 159,7	
	4) 230,4 8) 156,5	
02.41 UTC	1) 219,0 5) 229,6	
	2) 218,6 6) 216,3	
	3) 231,7 7) 159,7	
	4) 230,6 8) 156,6	
-	We hebben een ETA meting (ETA_UVVIS) opgestart met hetzelfde doel als Xsi boven	
	Meting loopt goed	

Pagenumber:

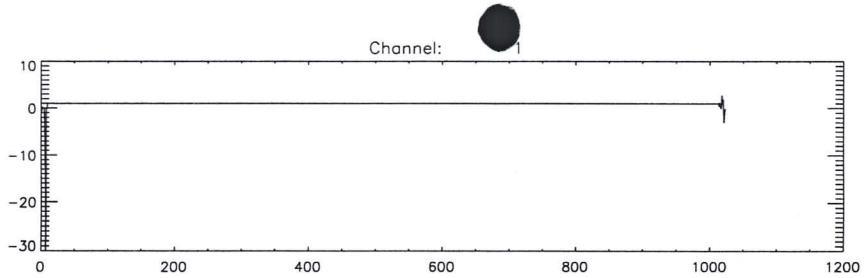
LOG SHEET SCIAMACHY CALIBRATION

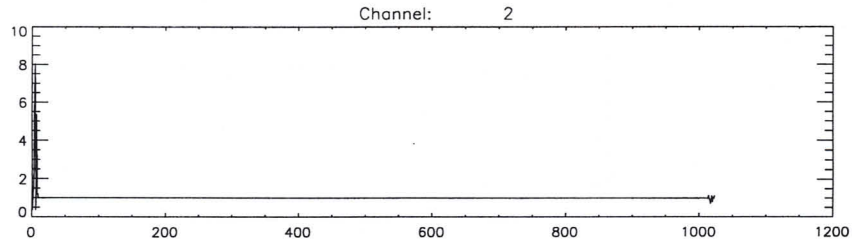
	date/time	description of action	measuremement filename
	03.25 UTC	1) 219,1 5) 229,7	
		2) 218,6 6) 216,3	
		3) 231,7 7) 159,7	
		4) 230,7 8) 156,5	

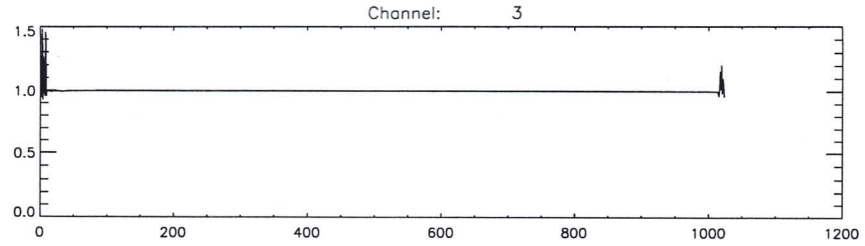

Picture Manager
No Warnings
support@ENV2MMI – IEGSE-SE V1.12.2 – Preparation
Sun Aug 2 04:09:34 1998
System Control
Help
envisatTopPic
Stimuli
Config. 0
Lambda - nm
PPC -
Polar - deg
Shutter -
Acq. -
S/S -
ATC ACTIVE
Nadir -16.2 C
Limb -17.9 C
RAD-A -18.0 C
Sun (Subsolar)
Nadir
Limb
Sun/
Moon
NCW
CLOSED
WLS
OFF
A -0.1 mA
B 0
SLS
OFF
-5.24 V
0.0 mA
Sun Sens
0 0
0 0
IICAOPT
PMD
Det.Tmp -18.7 C
ElecTmp -17.7 C
Azimuth Scanner
ACTIVE
273160 45.000
Elevation Scanner
ACTIVE
594194 -45.000
Telescope
Spectrom.
Cover
UNLOCKED
Cover
UNLOCKED
Aperture Stop
LARGE
NDF
IN
OBM : -17.9C
Channel 1 2 3 4 5 6 7 8
Bias Volt. 2.50 2.50 2.50 2.50 2.50 -0.03 -0.05 -0.03
Test input 0.00 0.00 0.00 0.00 0.00 0.01 0.01 0.01
5V Supply 1.73 1.71 1.71 1.72 1.72 1.71 1.72 1.71
15V Supply 3.19 3.18 3.19 3.18 3.17 3.18 3.19 3.17
Shield temp 240.5 240.6 244.5 244.5 243.8 237.7 214.4 214.8
Block temp 219.1 218.7 231.8 230.7 229.7 216.3 159.7 156.5
DME temp 259.2 259.0 259.5 259.2 259.4 259.9 259.3 260.0
Ancil. STOP
RbiStart A_NOM
Conf 5
Exp. Mode HEATER
TLM Mode MEAS_TI COMPLETE
ChkState STATE
Format RTE 61
OBT 0X04536914
Moni. TRUE
Anom 0

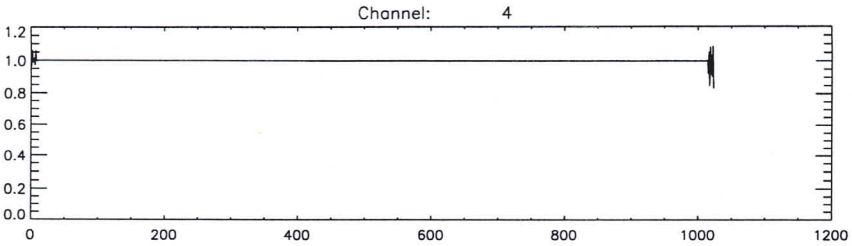
STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Sander Derksen 2-08-98	
	What's the name of the (main) data input file that you want to store in the SOC directory?		(A)
	Setup a three-window configuration on your SUN.		See course descr.
Do ratio	`idl do_ratio` Let <D1> be the first selected dark file name		In IDL window
	Full path name of <D1> ls -l <D1>.div.cal	~DATA-DIR/W48/2/ scia_31071998_07572197 5. egse_ltf.du.avg.cal en ..... + qu ...	In DATA window
	size of <D1>.div.cal		Approx. 140 kB
	lpr -P<printer> <D1>.div.cal.ps Add postscript image to logbook, Done?	~DATA-DIR/WLS/1/ scia_20071998_23370279. egse_ltf.du.avg.cal en ..... qu ..... Y / N	In DATA Window
Back up	Create 3 sets of backup CDs of directory `~/DATA-DIR/START-OF-CALIBRATION` (One CD has a capacity of 600 Mbytes, the UNIX command `/usr/bin/du -k .` gives the number of kilo bytes in the current directory). Name of backup CDs	file stored: ~DATA-DIR/WLS/2/ scia_31071998_07572197 5. egse_ltf.du.avg.cal.div.cal size: 145098	See analysis sheet BackUp
Sign:	Name Date and time Signature		

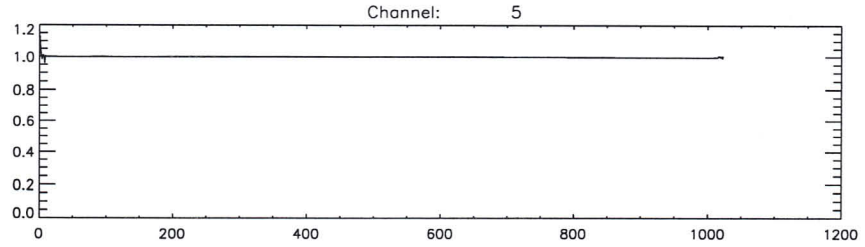
Note that the do_ratio procedure asks:
1/ a dark file
2/ a corresponding light file
3/ a second dark file
4/ a corresponding light file.

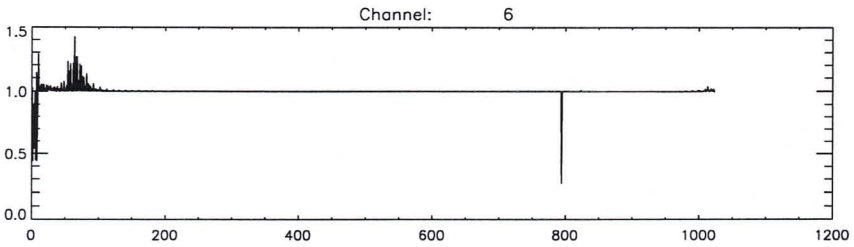

Channel: 1

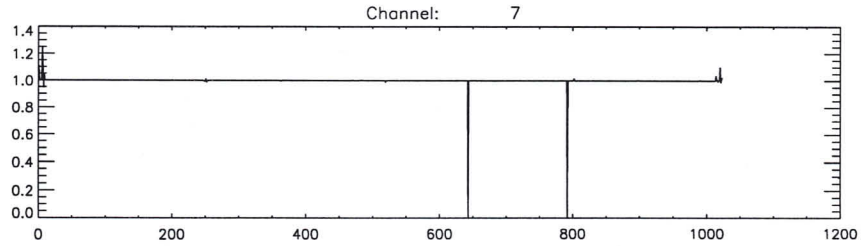

Channel: 2

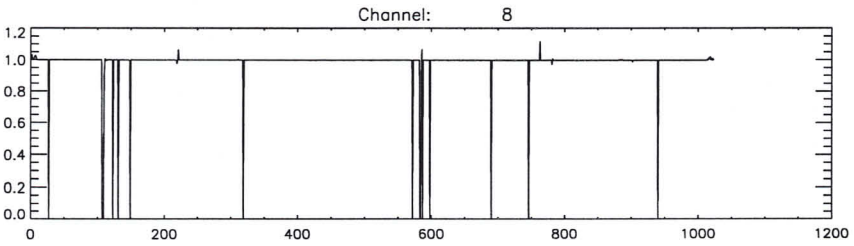

Channel: 3

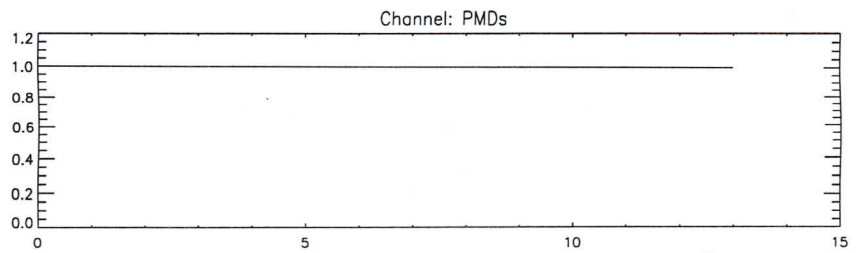

Channel: 4

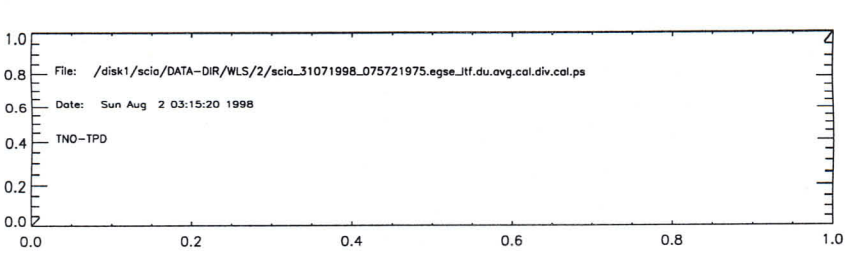

Channel: 5


Channel: 6


Channel: 7


Channel: 8


Channel: PMDs


File: /disk1/scia/DATA-DIR/WLS/2/scia_31071998_075721975.egse_itf.du.avg.cal.div.cal.ps
Date: Sun Aug 2 03:15:20 1998
TNO-TPD

Pagenumber:

LOG SHEET SCIAMACHY CALIBRATION

date/time	description of action	measuremement filename
2-8-98 7:50 UTC	changed setup. moved FEL-lamp at minimum distance (1 m)	
2-8-'98/8.33 UTC	START Measurement GEN_NADIR UID 22 Failed to put off all lights in OPTEC-room. 1 row of lights burned during measurement run	
2-8-'98/8.46 UTC	End Measurement UID 22	
2-8-'98/9.30 UTC	It appears previous measurement has been performed using a wrong repetition factor (1 instead of 10) due to a difference between default settings in MMI and most recent list gotten this morning by Marcel Dobber. Recent list setting of 1 was followed but wrong. New measurement is needed and will be performed next.	
2-8-'98/10:30 UTC	Redoing measurements with ~~eight~~ right ~~##~~ repetition factor All lights are off this time	

Formal Run of Measurement

(Measurement ID) GEN_NADIR

Request for Actual Status		(cross out entries that are **not** requested.)
Request for Modification		(fill in only entries to be modified)
Request for Run	X	(no entries = run based on actual default settings)

Scanner Positions

Azimuth	+45.00	deg
Elevation	-45.00	deg

Timeline for each Data Acquisition Period during Measurement

	1	2	3	4	5	6	7	8	9	10
State ID	33									
Repetitions	1									

State Parameters for States used in Timeline (State ID must be given)

Channel	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding
1a	64	1						
1b	64	1						
2b	0	0						
2a	0	0						
3	1	64						
4	0.5	64						
5	0.5	64						
6	0.125	64						
7	0.5	64						
8	1	64						
State ID								

Stimuli Settings for Existing Blocks in Measurement

Block No	Stimuli Setup ID	PPC [deg]	Polarizer [deg]	Shutter open/close	Acquisition Time [s]	Lambda [nm] Start	Stop	Step	Repetition Factor	Message	OS Setup Time [s]
1	0	-	-	-	-	-	-	0	1	RU1	-
2	0	-	-	-	-	-	-	0	1	DU1	-

Measurement Data Description

Test Purpose	UID 22
Remark	
Data Directory	0214-08.33.22_GEN_NADIR

Signatures

	Date	Signature
Issued	2-8-'98	
Performed	2-8-98	

STEP	ACTION	RESULT	MARKER
Intro	Your name:	D. Oude Lansink	
	Date:	2-8-'99	
	What's the name of the (main) data input files generated by the EGSE? `(*.dat)`	SCIA_02081998_083638879	(A)
	Setup a three-window configuration on your SUN.		see course descr.
Cnstr directory	`cd ~/DATA-DIR/RAD-NADIR ; ls -l`		Note: In window DATA-DIR
	highest number in directory?	11	(B)
	New directory: `mkdir <B+1>` `ls -l` What's now the highest number in directory?		(C)
	<C> should be <B> + 1	(Y) / N	
	directory name is:	`~/DATA-DIR/RAD-NADIR/<C>`	(DIR-NAME)
Copy data	See Analysis sheet: Transfer Data File	(Y) / N	In DATA-DIR window
Cnstr EGSE_LTF	`cal_raw2ltf .` (Error messages are not necessarily fatal; check with SOLAN --in solan window-- whether output file is okay: there should be a signal present, and `dremark1` labels should be filled) `ls -l *.egse_ltf`		Note: In window DATA-DIR; ***don't forget the dot !!!;*** *May take more than 15 mins.*
	What's the name of the egse_ltf file	SCIA_02081998_083638879.egse_ltf	(D)
	`<D> should be <A>.egse_ltf`	(Y) / N	
Cnstr CAL files	`idl run_averscia` (and select file <D> when asked)		Note: In window IDL
Check CAL files	Dark files: `ls -l *du*.avg.cal`		In DATA-DIR window
	size:	196 kb	should be approx 150Kb

`ls -l *ru*.avg.cal`

size: 146 kb ____ should be approx 150Kb

Note: all files should be present, if not:
(a) Check file <D> using SOLAN and check whether DU, and IU labels are present in dremark1 labels
(b) Check if enough disk space is available (Unix command `df -k | more`).

here we see that we miss data

Print postscript

Print postscript files:
`lpr -P<printer> *.ps`
Contents dark file `*du*.avg.cal.ps` should be approx. constant within channels: Y / N
Contents light file `*ru*.avg.cal.ps` should resemble white light source: Y / N

Contents of `*rel_std*.ps` files should be smaller than 0.01 (pixel 300 -- 800) for all channels. Y / N

If not, value is: ____

Add postscript images to logbook, done Y / N

Print logfiles `lpr -P<printer> *.log`
Add logfiles to logbook, done Y / N

Radiance processing

Run radiance `idl> do_radiance` In IDL window

Check radiance `ls -l * | more` In DATA-DIR window

Size of file `<D>.du*.avg.cal.p1.cal` ____ should be approx 150Kb

	Size of file <D>.du*.avg.cal.p2.cal	_____

Check radiance visually	`lpr -P<printer>`
	`*.p[12].*.cal.ps`
	Value of P1 and P2 file resemble white light source?
		Y / N

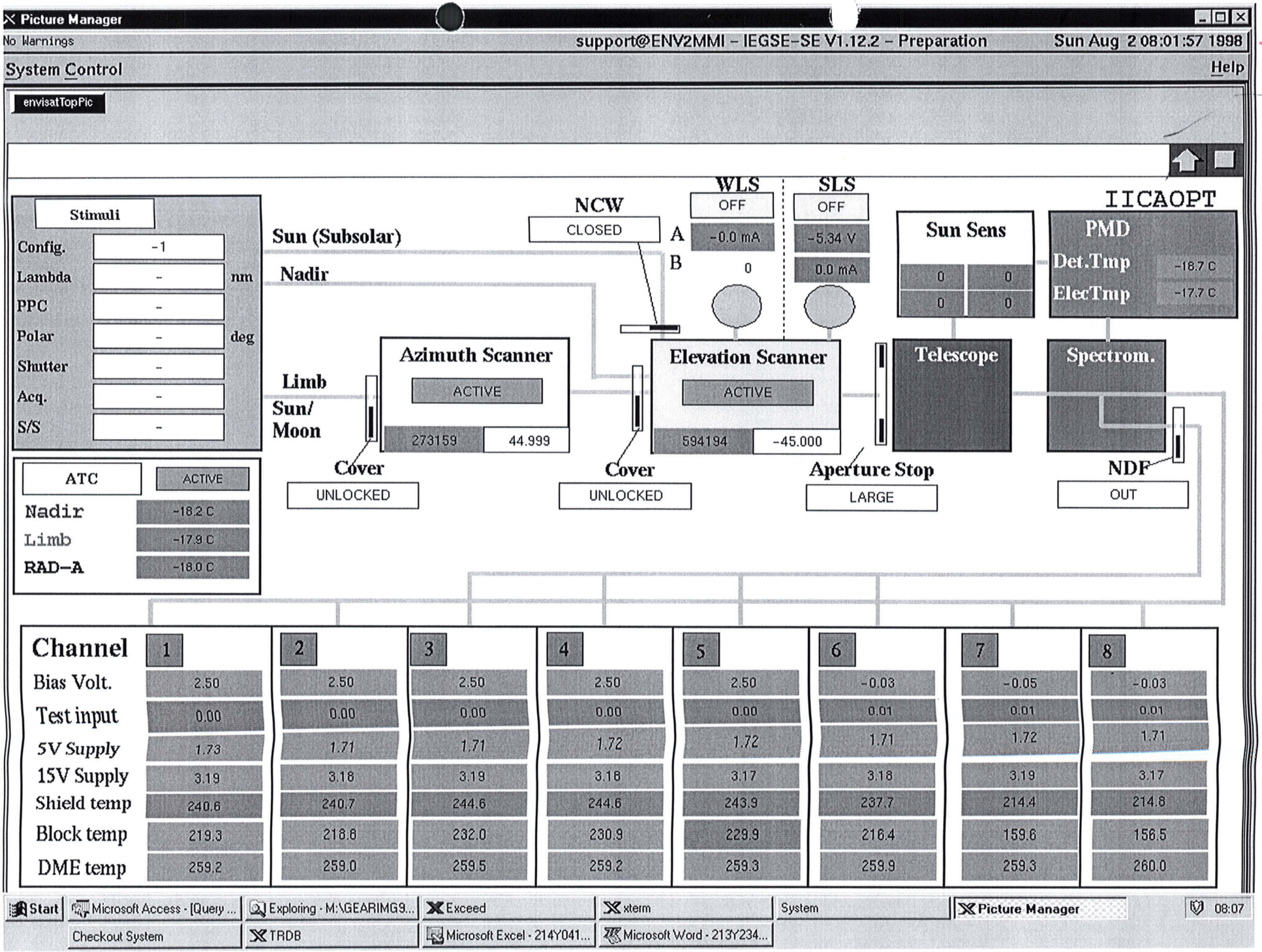
	Add postscript images to logbook, done	Y / N

Print logfiles	`lpr -P<printer>`
	`*.p[12].cal.log`
	Add logfiles to logbook, done
		Y / N

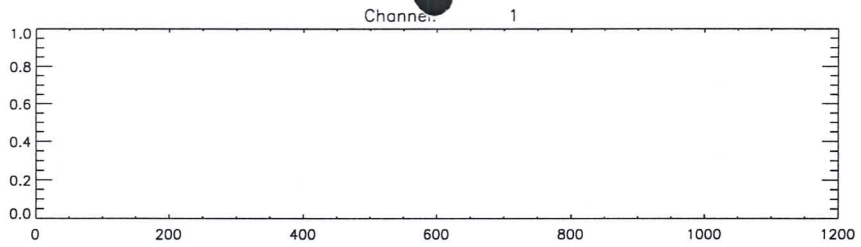
Back up	Create 3 sets of backup CDs of directory <DIR-NAME> (One CD has a capacity of 600 Mbytes, the UNIX command `/usr/bin/du -k .` gives the number of kilo bytes in the current directory). Name of backup CDs	_____

See analysis sheet BackUp

Sign:	Name	_____
	Date and time	_____
	Signature	_____


Picture Manager
No Warnings
support@ENV2MMI - IEGSE-SE V1.12.2 - Preparation
Sun Aug 2 08:01:57 1998
System Control
Help
envisatTopPic
Stimuli
Config. -1
Lambda - nm
PPC -
Polar - deg
Shutter -
Acq. -
S/S -
ATC ACTIVE
Nadir -18.2 C
Limb -17.9 C
RAD-A -18.0 C
Sun (Subsolar)
Nadir
Limb
Sun/ Moon
NCW
CLOSED
WLS
OFF
A -0.0 mA
B 0
SLS
OFF
-5.34 V
0.0 mA
Sun Sens
0 0
0 0
IICAOPT
PMD
Det.Tmp -18.7 C
ElecTmp -17.7 C
Azimuth Scanner
ACTIVE
273159 44.999
Elevation Scanner
ACTIVE
594194 -45.000
Telescope
Spectrom.
Cover
UNLOCKED
Cover
UNLOCKED
Aperture Stop
LARGE
NDF
OUT
Channel 1 2 3 4 5 6 7 8
Bias Volt. 2.50 2.50 2.50 2.50 2.50 -0.03 -0.05 -0.03
Test input 0.00 0.00 0.00 0.00 0.00 0.01 0.01 0.01
5V Supply 1.73 1.71 1.71 1.72 1.72 1.71 1.72 1.71
15V Supply 3.19 3.18 3.19 3.18 3.17 3.18 3.19 3.17
Shield temp 240.6 240.7 244.6 244.6 243.9 237.7 214.4 214.8
Block temp 219.3 218.8 232.0 230.9 229.9 216.4 159.6 156.5
DME temp 259.2 259.0 259.5 259.2 259.3 259.9 259.3 260.0
Start
Microsoft Access - [Query ...
Exploring - M:\GEARIMG9...
Exceed
xterm
System
Picture Manager
08:07
Checkout System
TRDB
Microsoft Excel - 214Y041...
Microsoft Word - 213Y234...

- UTC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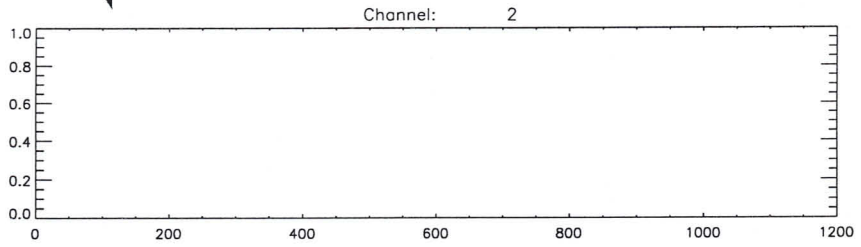
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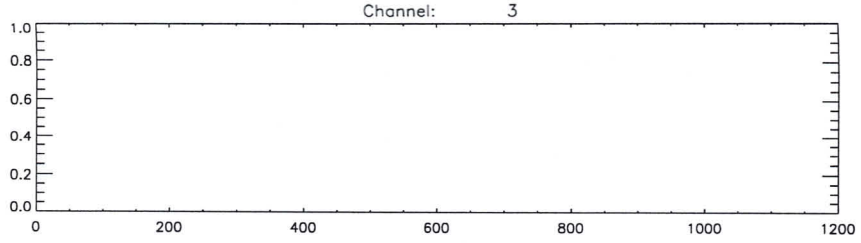
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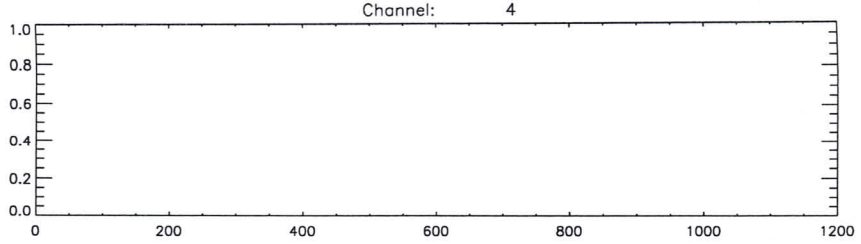
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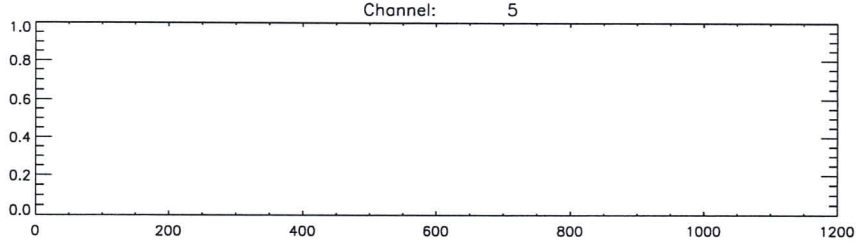
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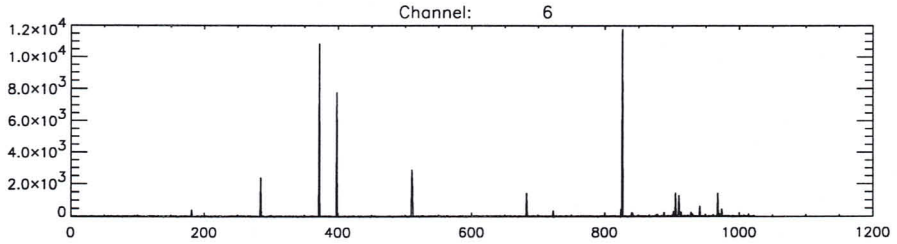
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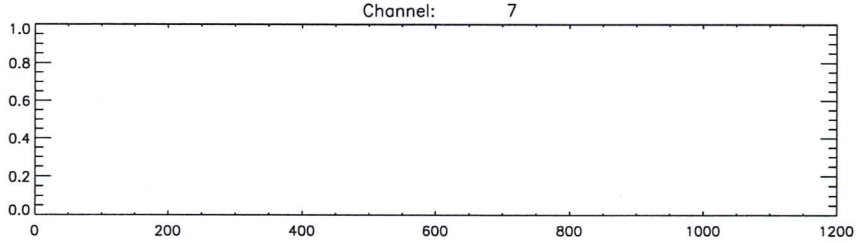
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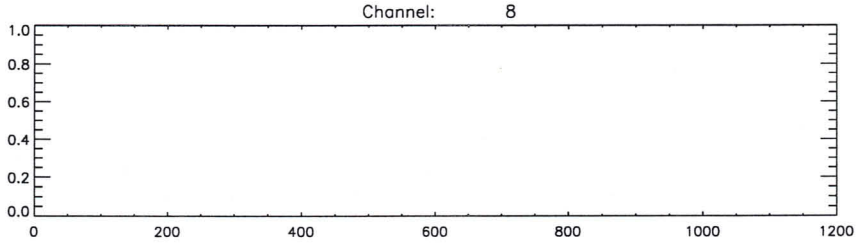
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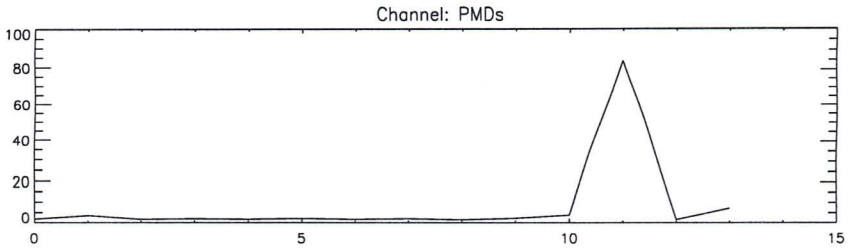
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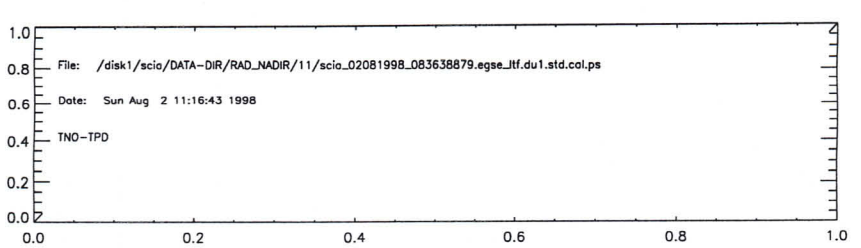
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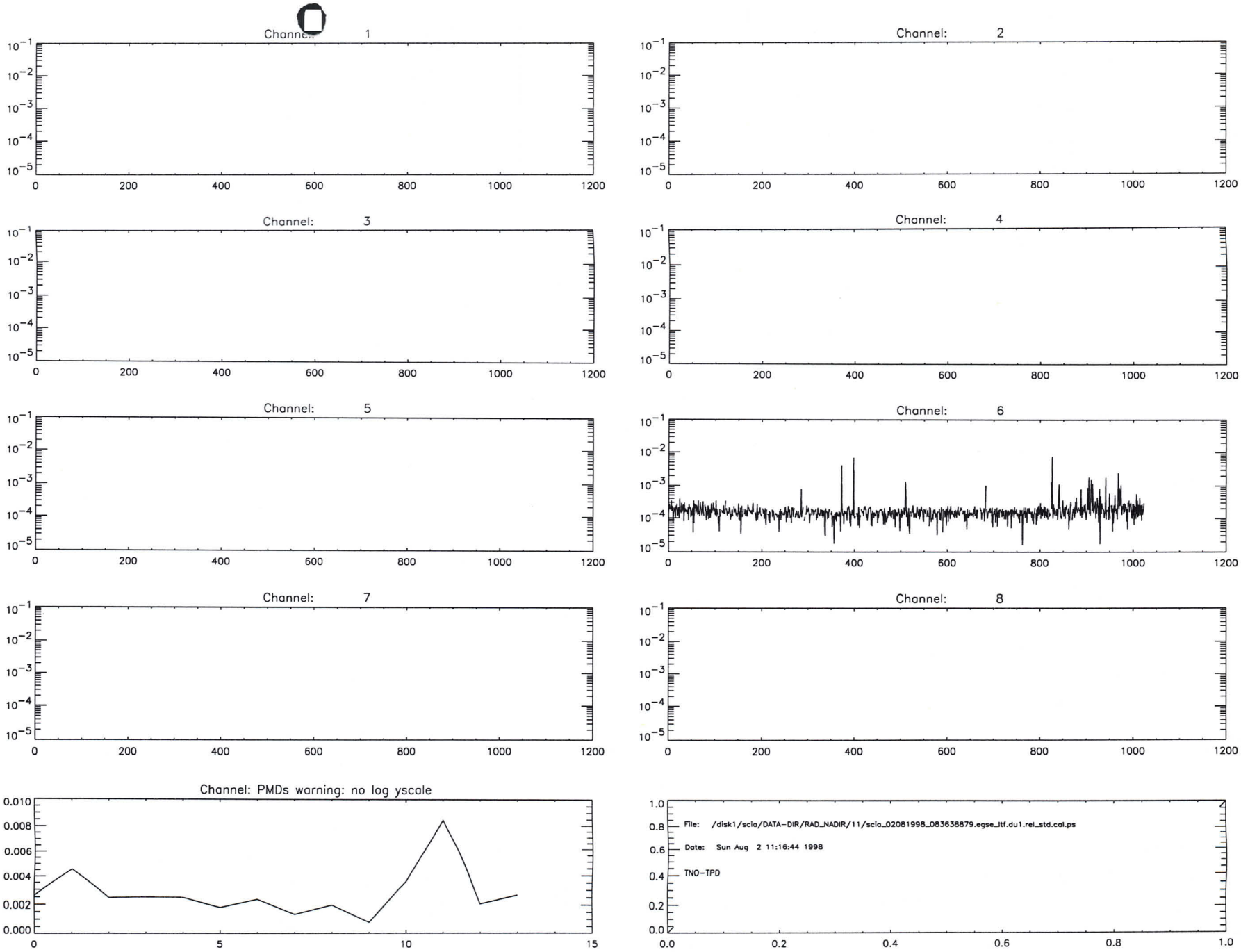
Date: Sun Aug 2 11:16:43 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs warning: no log yscale
File: /disk1/scia/DATA-DIR/RAD_NADIR/11/scia_02081998_083638879.egse_ltf.du1.rel_std.col.ps
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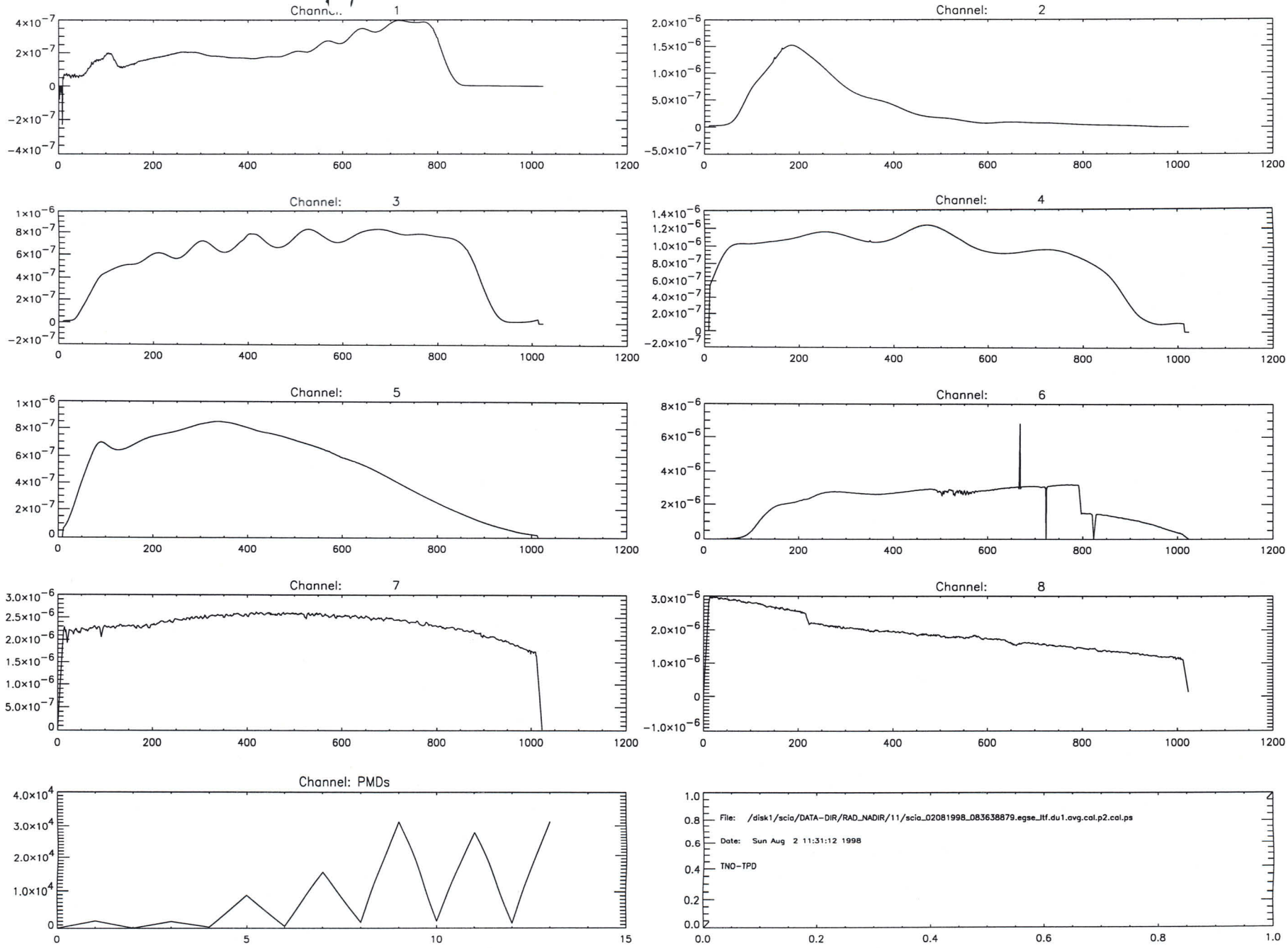
TNO-TPD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Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
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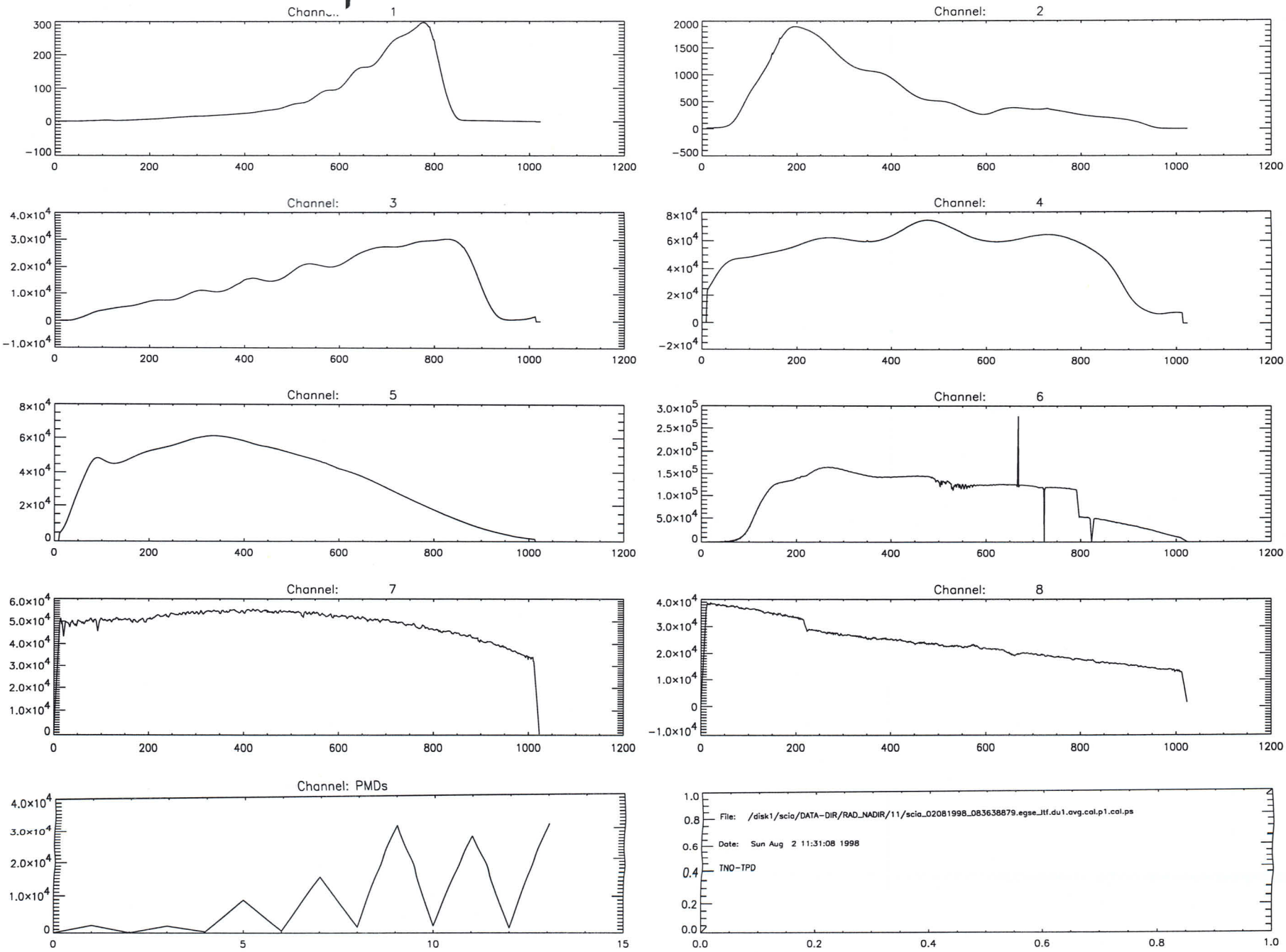
Date: Sun Aug 2 11:31:12 1998
TNO-TPD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Channel: 2
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Channel: 6
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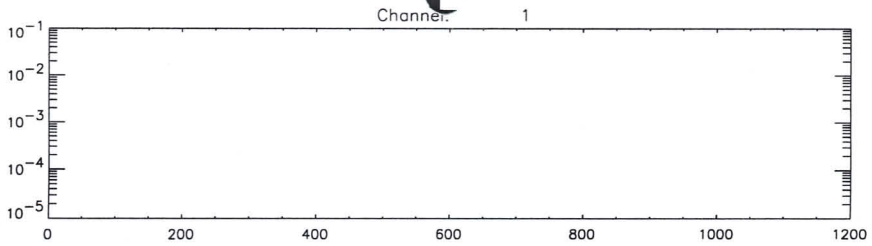
TNO-TPD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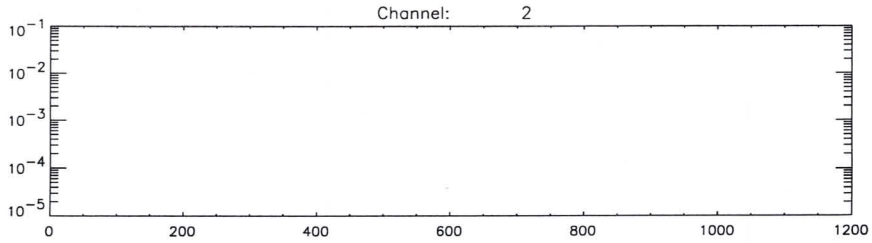
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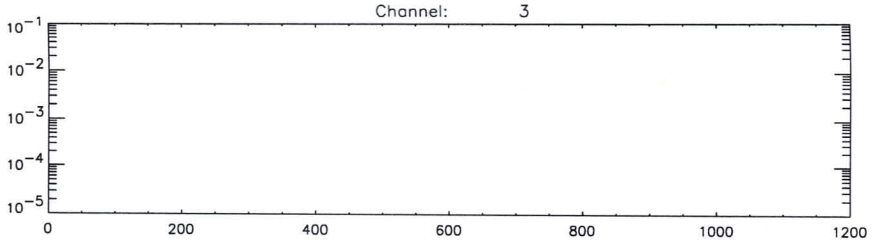
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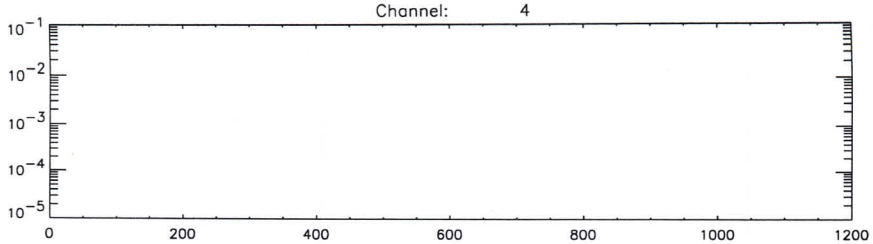
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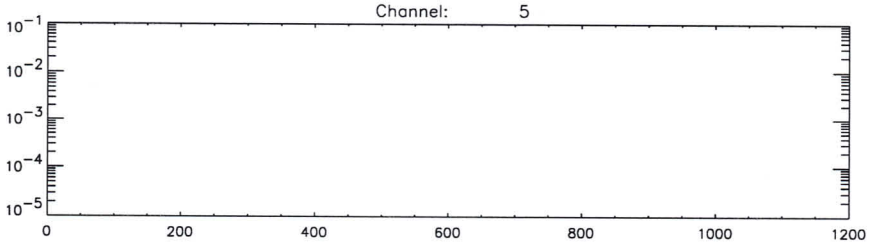
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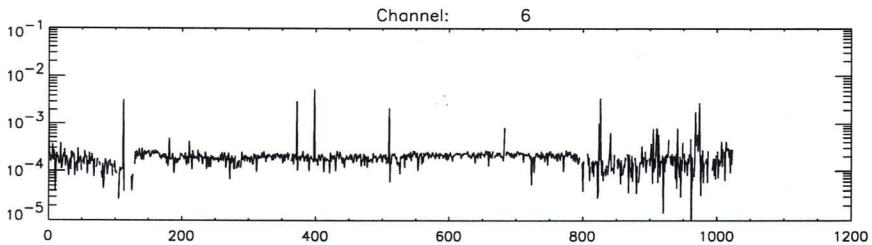
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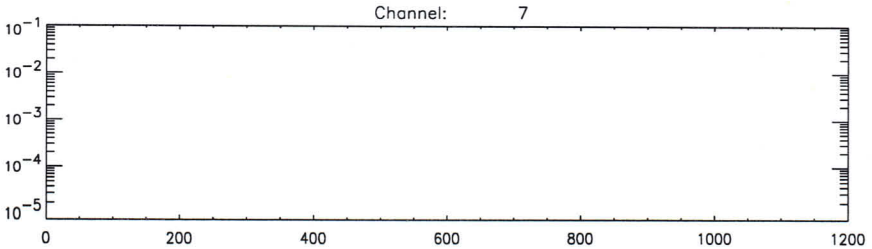
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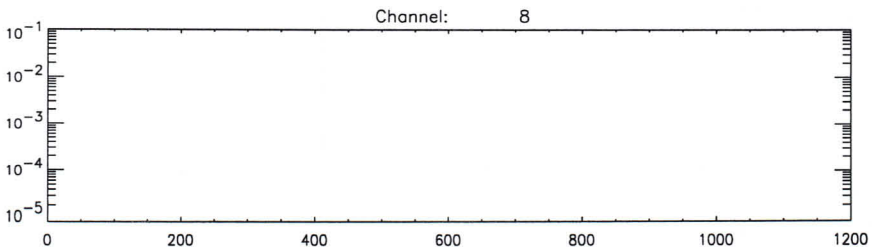
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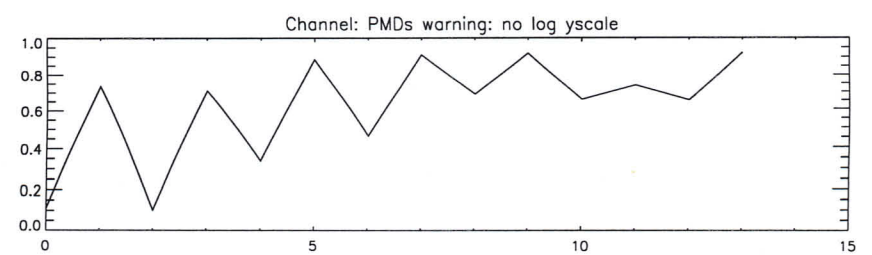
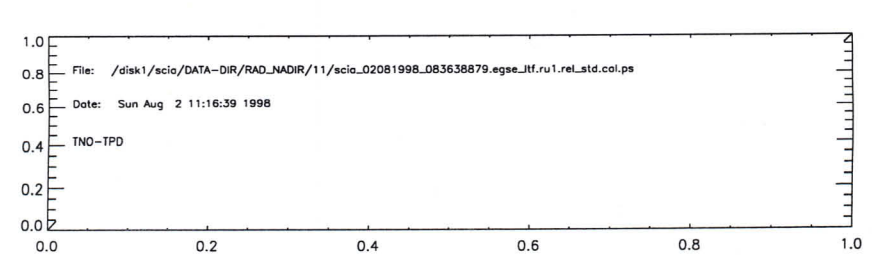

Channel: PMDs warning: no log yscale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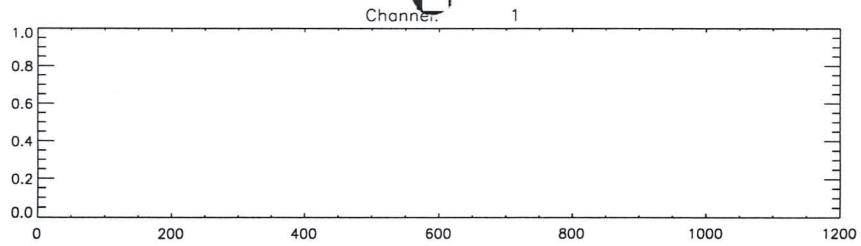
Date: Sun Aug 2 11:16:39 1998
TNO-TPD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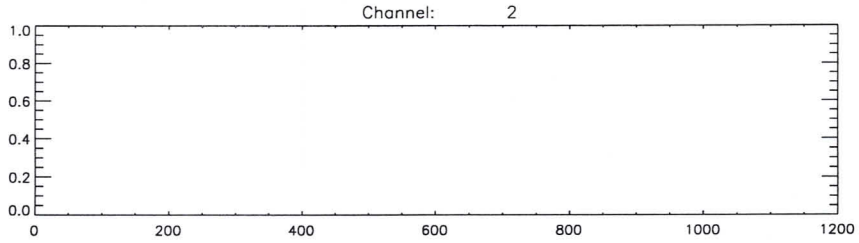
1.0
0.8
0.6
0.4
0.2
0.0
0
200
400
600
800
1000
1200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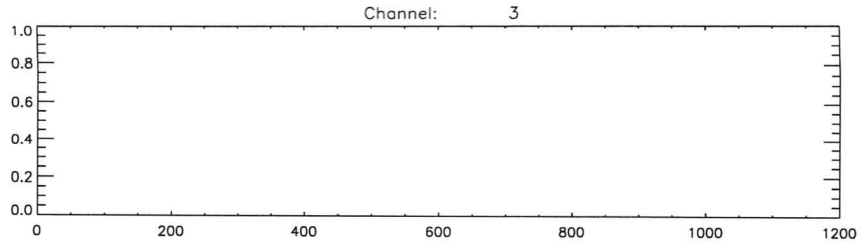
0.8
0.6
0.4
0.2
0.0
0
200
400
600
800
1000
1200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0.6
0.4
0.2
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0
200
400
600
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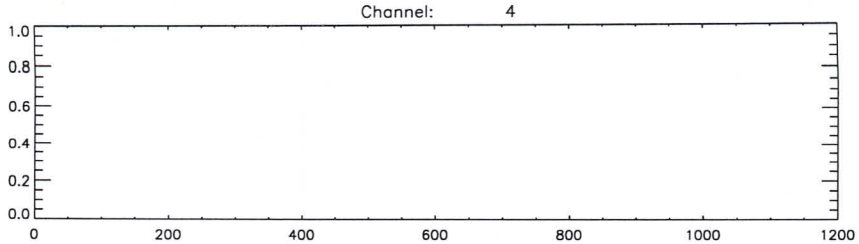
1200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0.4
0.2
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0
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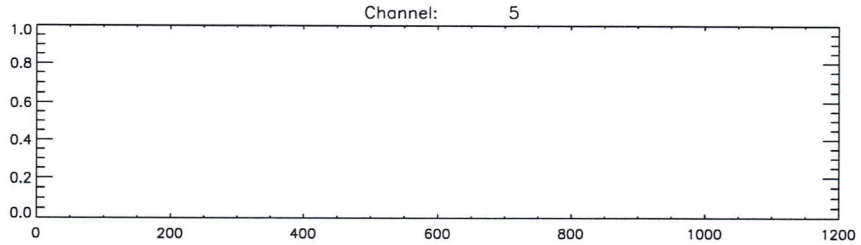
600
800
1000
1200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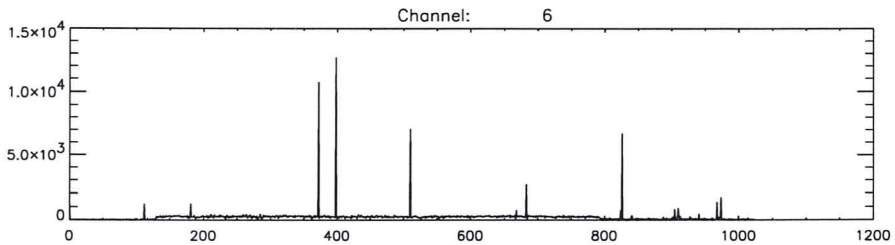
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1.0×10^4
5.0×10^3
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600
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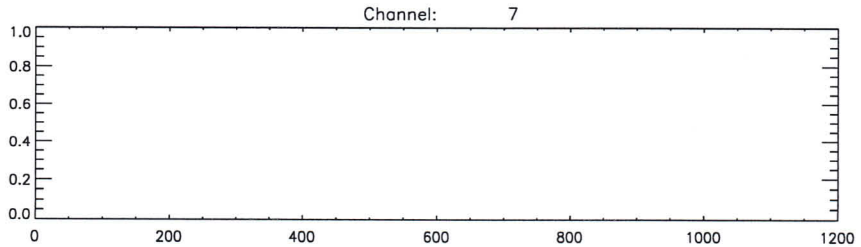
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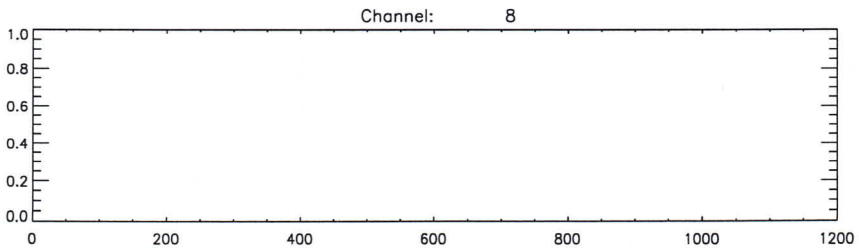
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0.4
0.2
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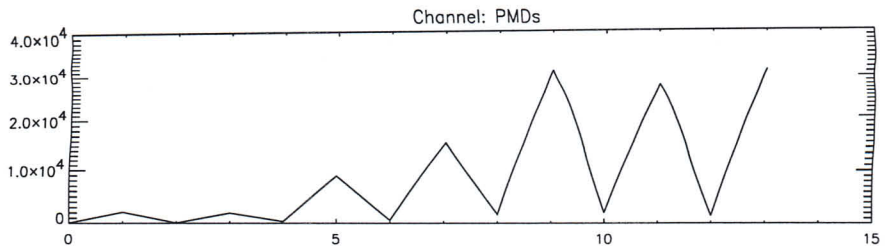
600
800
1000
1200


Channel: PMDs
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3.0×10^4
2.0×10^4
1.0×10^4
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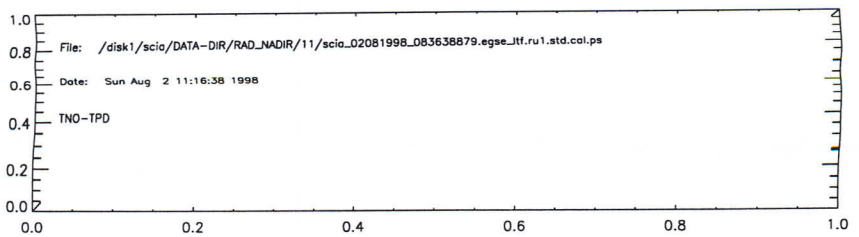
0
5
10
15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Date: Sun Aug 2 11:16:38 1998
TNO-TPD
1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0

#####
#####
#####
#####
#####
User: scia6!scia
#####
Title: l_names
#####
scia6
#####
Printed: Sun 11:14 Aug 02, 1998
#####
Job number: hp6mp-387
#####
#####
#####
#####
#####

```
#! /bin/sh
mv f0 dapbseqlog
mv f1 scia_02081998_035155740.dat
mv f2 scia_02081998_035155740.egse_ltf
mv f3 scia_02081998_035155740.egse_ltf.du1.avg.cal
mv f4 scia_02081998_035155740.egse_ltf.du1.avg.cal.div.cal
mv f5 scia_02081998_035155740.egse_ltf.du1.avg.cal.div.cal.log
mv f6 scia_02081998_035155740.egse_ltf.du1.avg.cal.div.cal.ps
mv f7 scia_02081998_035155740.egse_ltf.du1.avg.cal.div.cal.ps.log
mv f8 scia_02081998_035155740.egse_ltf.du1.avg.cal.p1.cal
mv f9 scia_02081998_035155740.egse_ltf.du1.avg.cal.p1.cal.log
mv f10 scia_02081998_035155740.egse_ltf.du1.avg.cal.p1.cal.ps
mv f11 scia_02081998_035155740.egse_ltf.du1.avg.cal.p1.cal.ps.log
mv f12 scia_02081998_035155740.egse_ltf.du1.avg.cal.p2.cal
mv f13 scia_02081998_035155740.egse_ltf.du1.avg.cal.p2.cal.keydata
mv f14 scia_02081998_035155740.egse_ltf.du1.avg.cal.p2.cal.log
mv f15 scia_02081998_035155740.egse_ltf.du1.avg.cal.p2.cal.ps
mv f16 scia_02081998_035155740.egse_ltf.du1.avg.cal.p2.cal.ps.log
mv f17 scia_02081998_035155740.egse_ltf.du1.avg.cal.ps
mv f18 scia_02081998_035155740.egse_ltf.du1.log
mv f19 scia_02081998_035155740.egse_ltf.du1.rel_std.cal
mv f20 scia_02081998_035155740.egse_ltf.du1.rel_std.cal.ps
mv f21 scia_02081998_035155740.egse_ltf.du1.std.cal
mv f22 scia_02081998_035155740.egse_ltf.du1.std.cal.ps
mv f23 scia_02081998_035155740.egse_ltf.ru1.avg.cal
mv f24 scia_02081998_035155740.egse_ltf.ru1.avg.cal.ps
mv f25 scia_02081998_035155740.egse_ltf.ru1.log
mv f26 scia_02081998_035155740.egse_ltf.ru1.rel_std.cal
mv f27 scia_02081998_035155740.egse_ltf.ru1.rel_std.cal.ps
mv f28 scia_02081998_035155740.egse_ltf.ru1.std.cal
mv f29 scia_02081998_035155740.egse_ltf.ru1.std.cal.ps
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mv scia_02081998_035155740.egse_ltf f2
mv scia_02081998_035155740.egse_ltf.du1.avg.cal f3
mv scia_02081998_035155740.egse_ltf.du1.avg.cal.div.cal f4
mv scia_02081998_035155740.egse_ltf.du1.avg.cal.div.cal.log f5
mv scia_02081998_035155740.egse_ltf.du1.avg.cal.div.cal.ps f6
mv scia_02081998_035155740.egse_ltf.du1.avg.cal.div.cal.ps.log f7
mv scia_02081998_035155740.egse_ltf.du1.avg.cal.p1.cal f8
mv scia_02081998_035155740.egse_ltf.du1.avg.cal.p1.cal.log f9
mv scia_02081998_035155740.egse_ltf.du1.avg.cal.p1.cal.ps f10
mv scia_02081998_035155740.egse_ltf.du1.avg.cal.p1.cal.ps.log f11
mv scia_02081998_035155740.egse_ltf.du1.avg.cal.p2.cal f12
mv scia_02081998_035155740.egse_ltf.du1.avg.cal.p2.cal.keydata f13
mv scia_02081998_035155740.egse_ltf.du1.avg.cal.p2.cal.log f14
mv scia_02081998_035155740.egse_ltf.du1.avg.cal.p2.cal.ps f15
mv scia_02081998_035155740.egse_ltf.du1.avg.cal.p2.cal.ps.log f16
mv scia_02081998_035155740.egse_ltf.du1.avg.cal.ps f17
mv scia_02081998_035155740.egse_ltf.du1.log f18
mv scia_02081998_035155740.egse_ltf.du1.rel_std.cal f19
mv scia_02081998_035155740.egse_ltf.du1.rel_std.cal.ps f20
mv scia_02081998_035155740.egse_ltf.du1.std.cal f21
mv scia_02081998_035155740.egse_ltf.du1.std.cal.ps f22
mv scia_02081998_035155740.egse_ltf.ru1.avg.cal f23
mv scia_02081998_035155740.egse_ltf.ru1.avg.cal.ps f24
mv scia_02081998_035155740.egse_ltf.ru1.log f25
mv scia_02081998_035155740.egse_ltf.ru1.rel_std.cal f26
mv scia_02081998_035155740.egse_ltf.ru1.rel_std.cal.ps f27
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mv scia_02081998_035155740.egse_ltf.ru1.std.cal.ps f29
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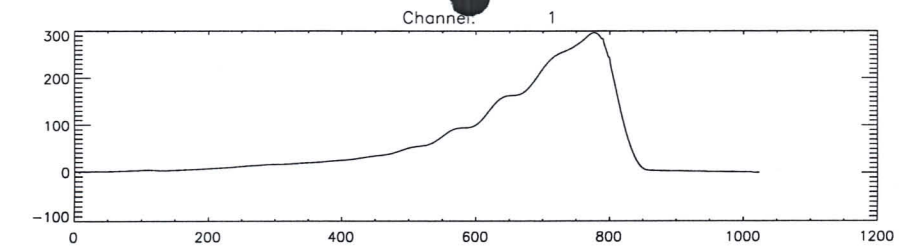
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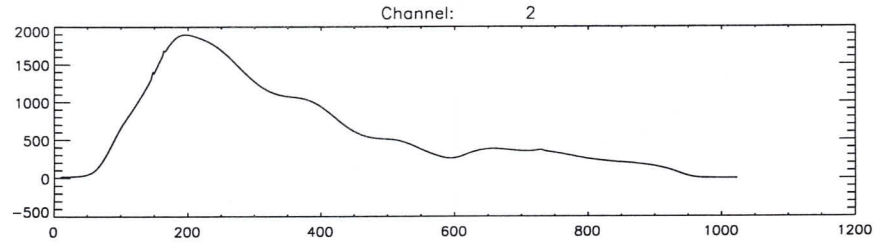
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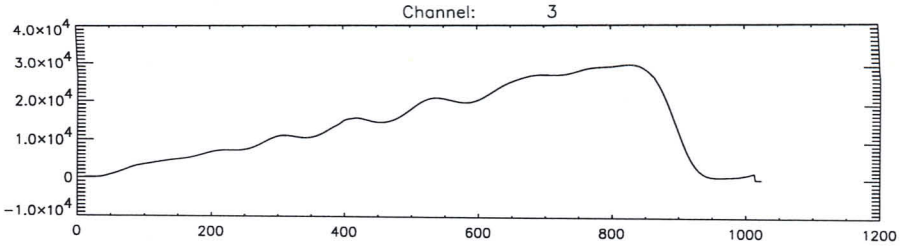
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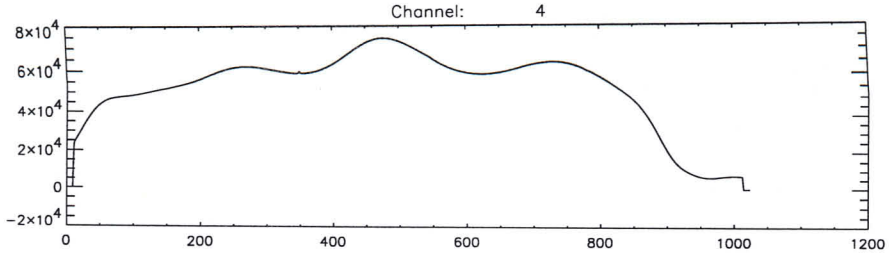
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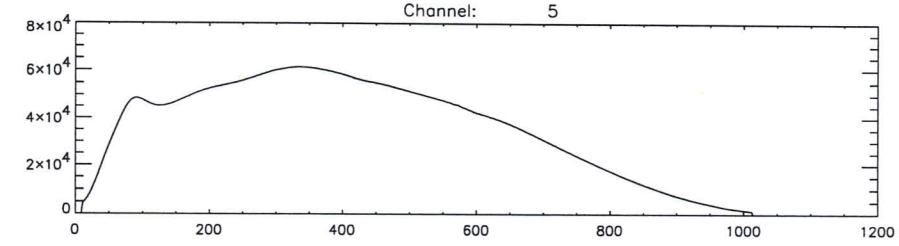
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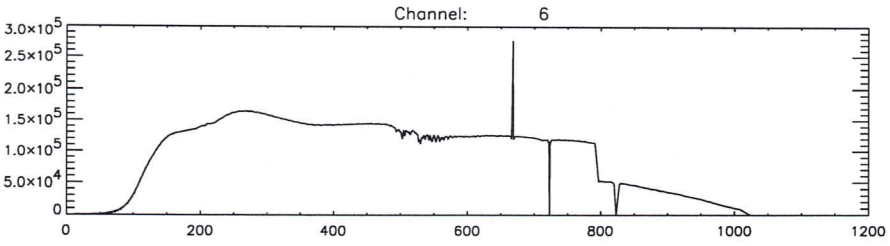
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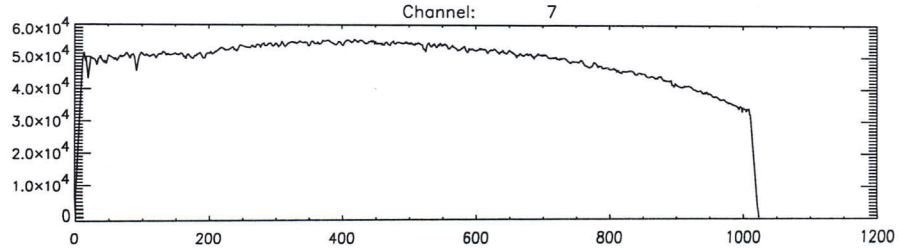
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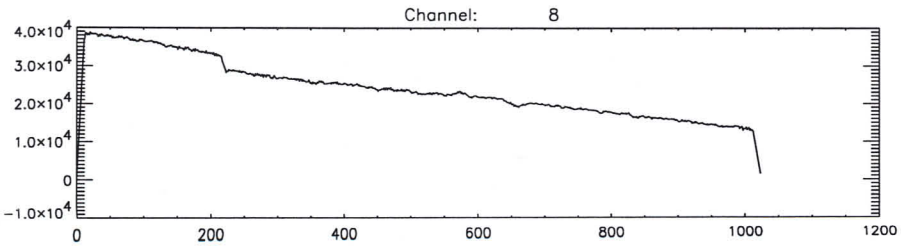
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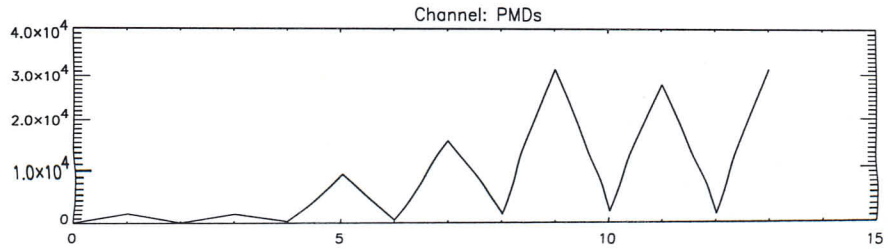
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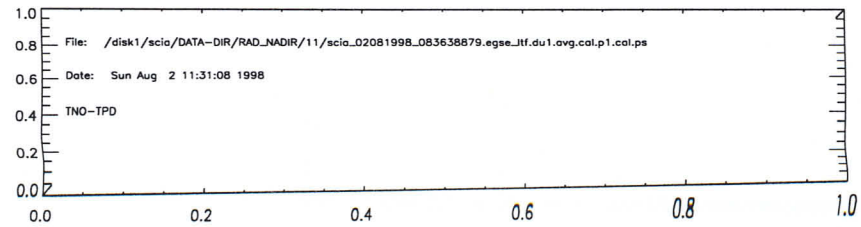
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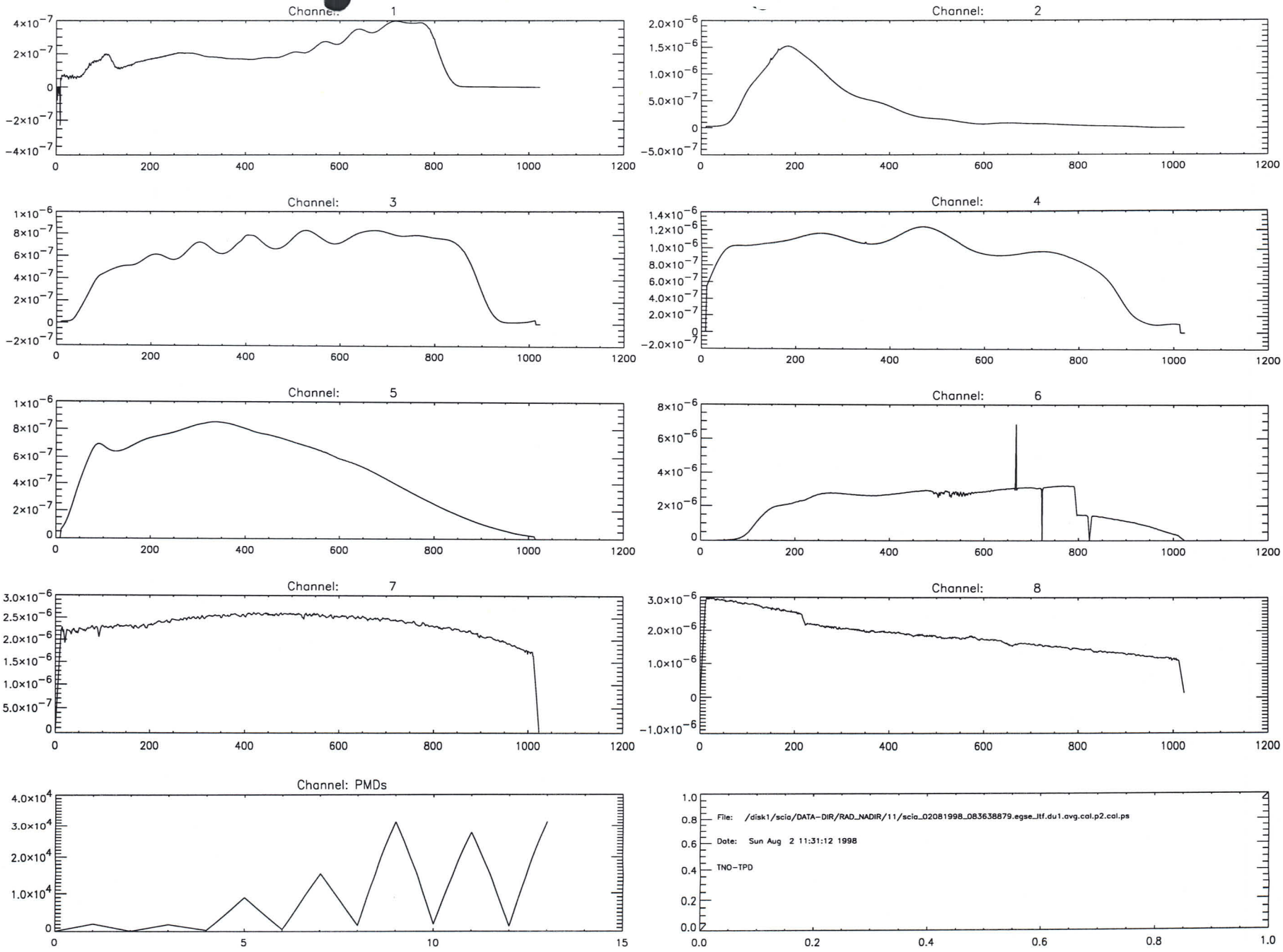
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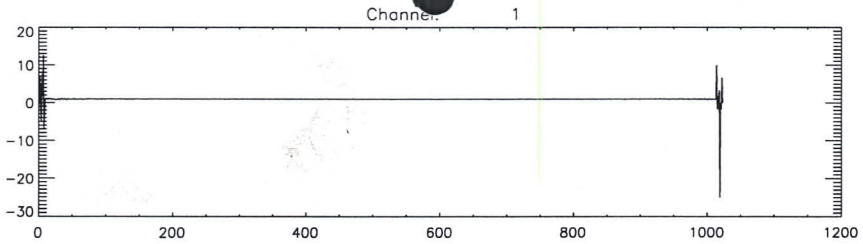
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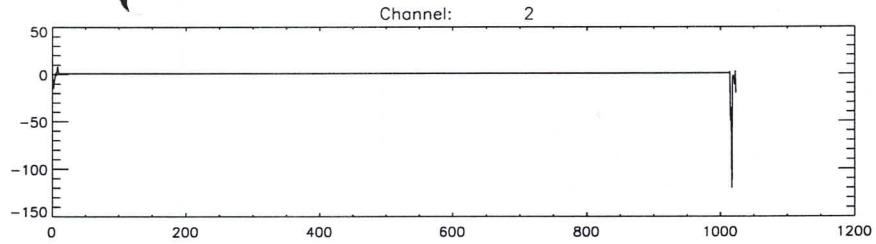
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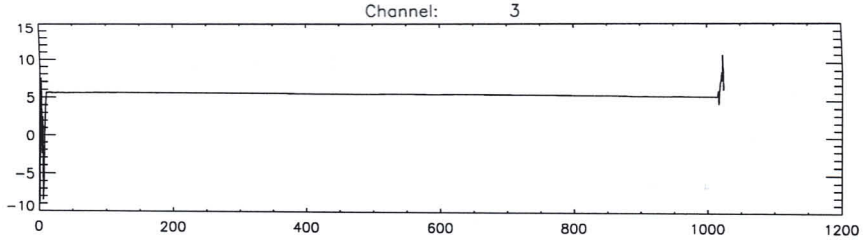
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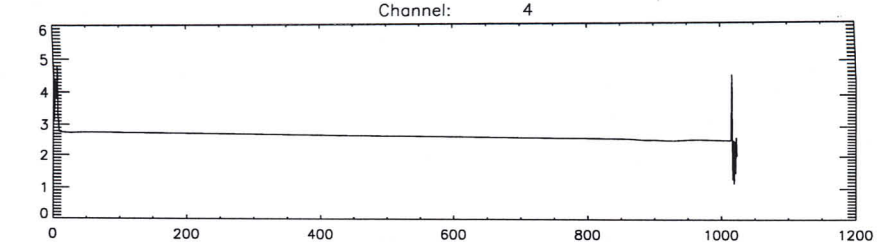
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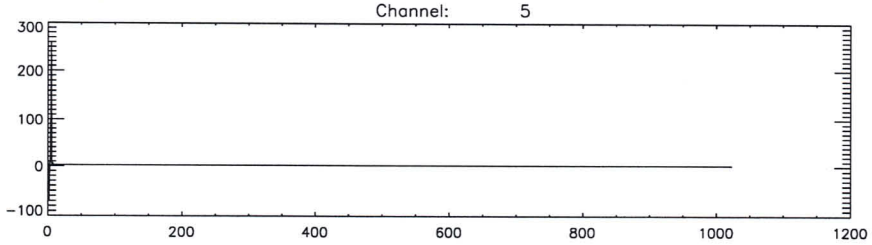
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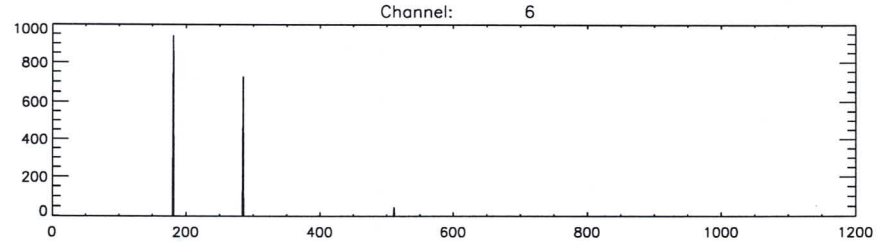
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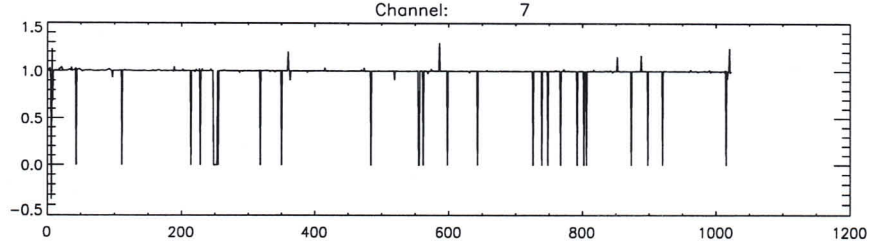
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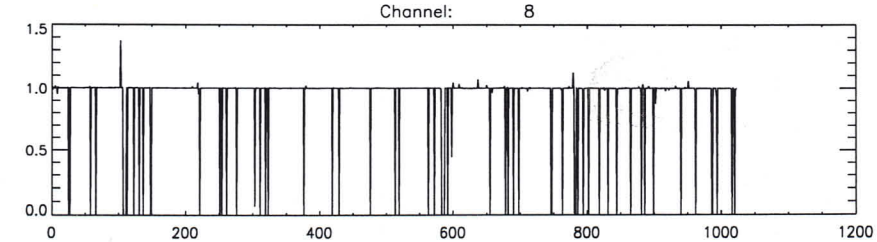
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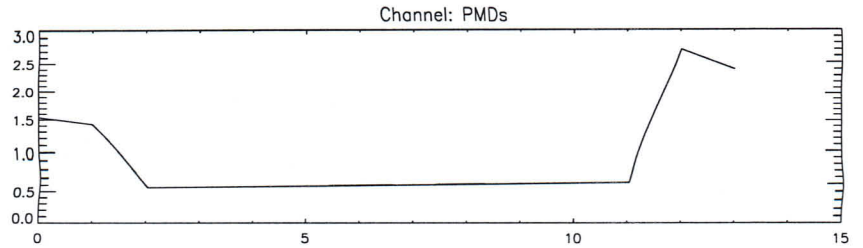
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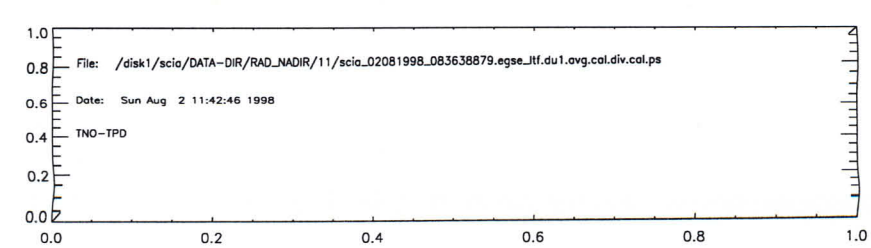
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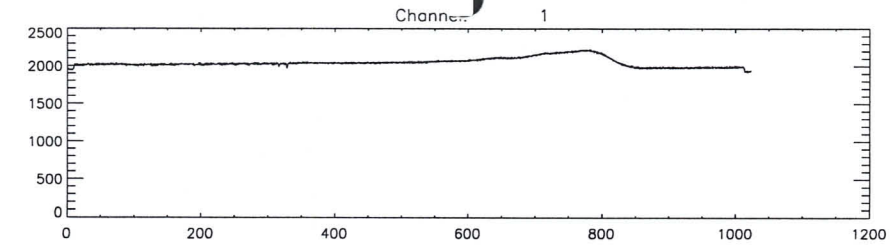
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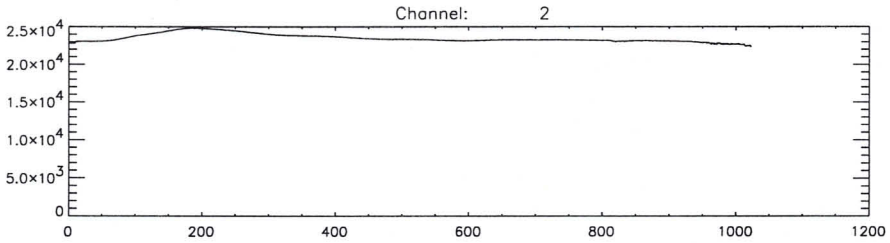
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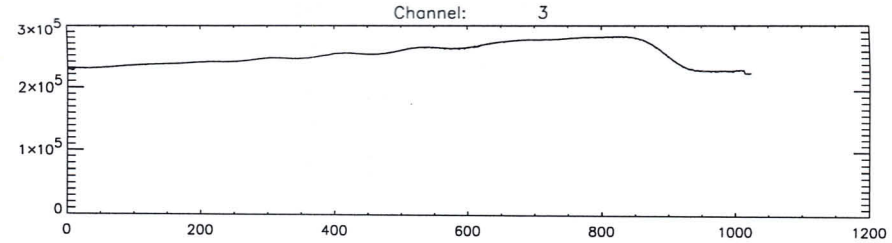
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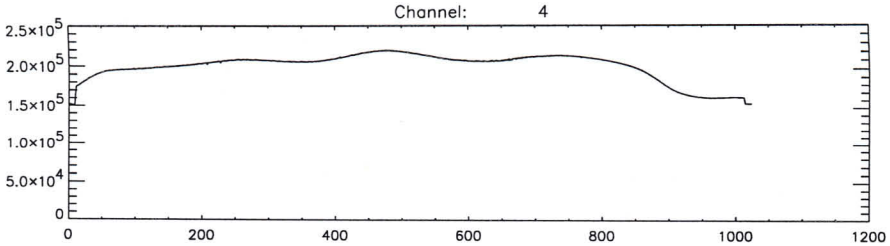
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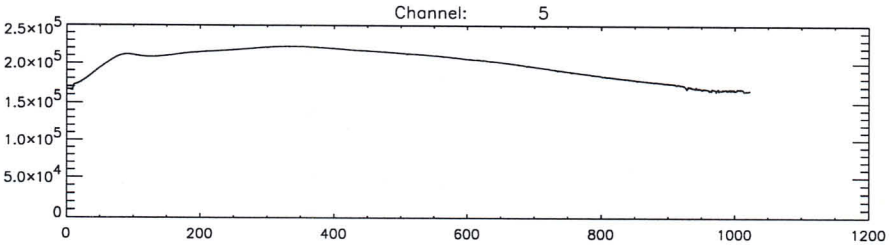
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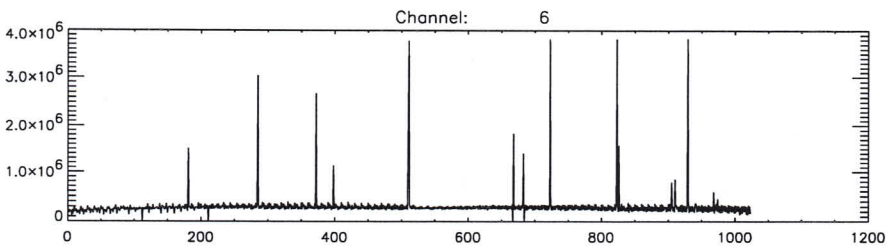
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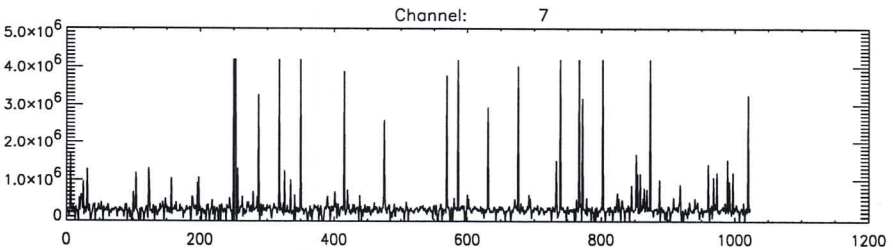
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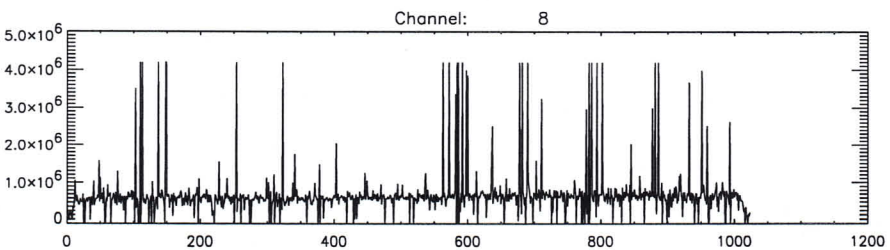
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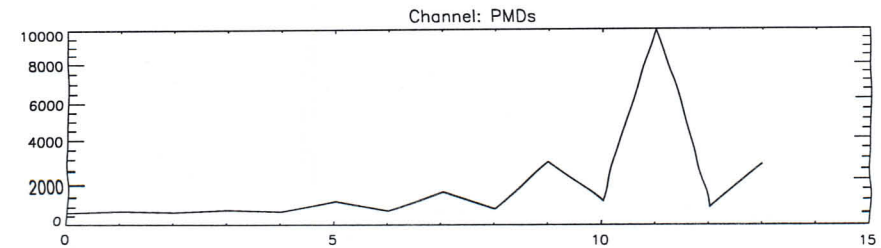
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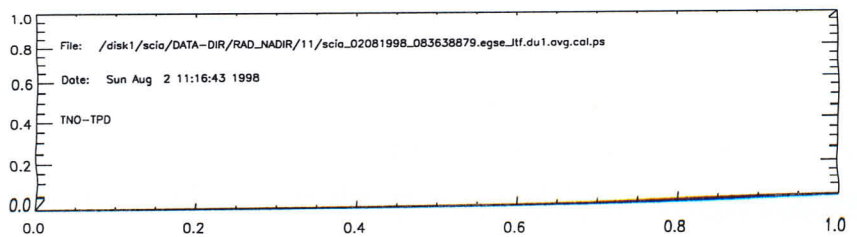
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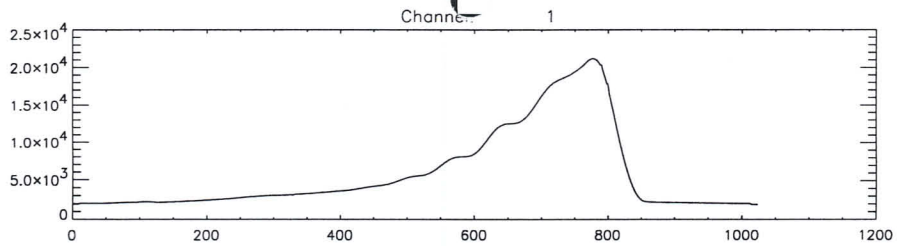
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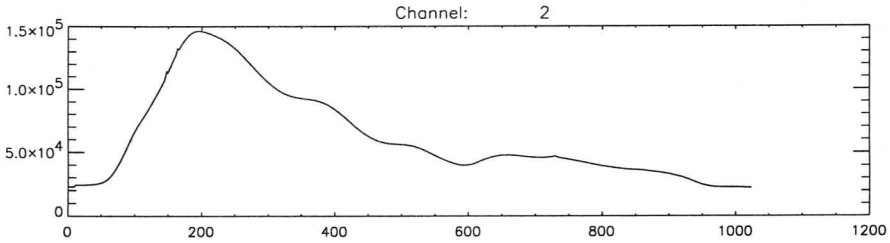
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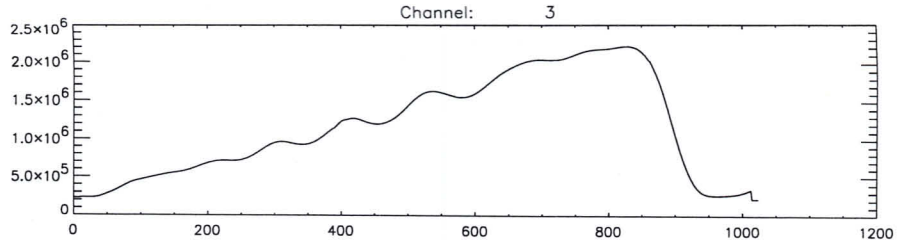
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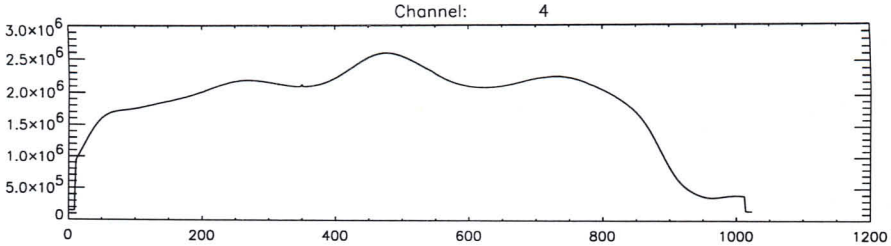
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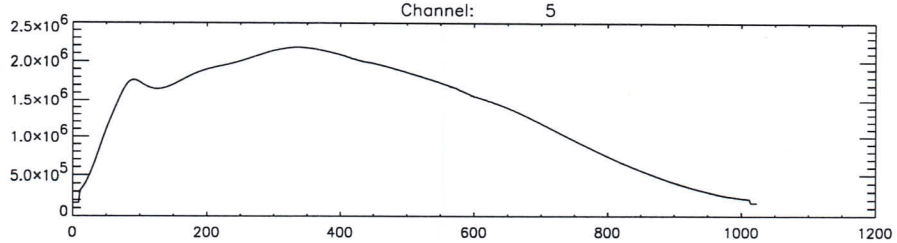
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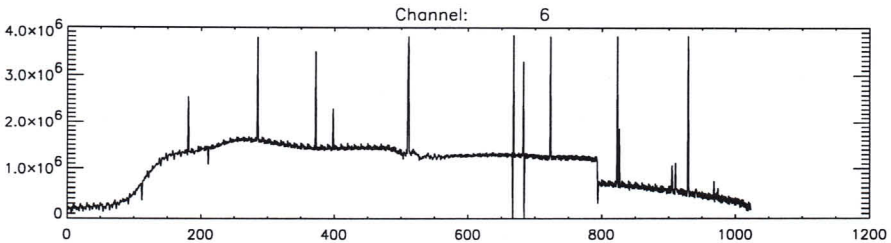
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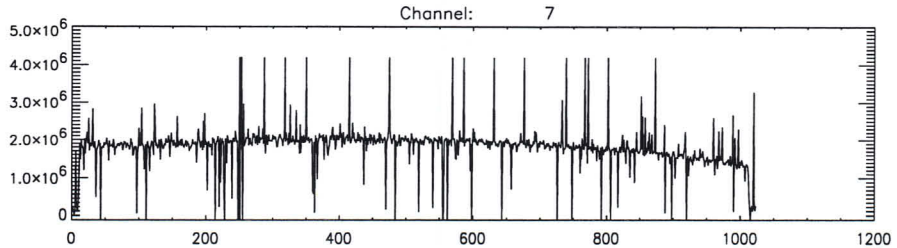
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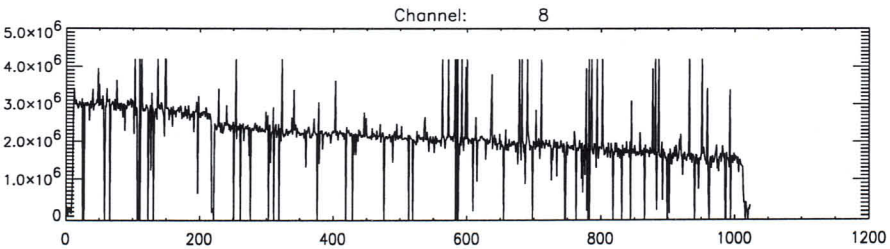
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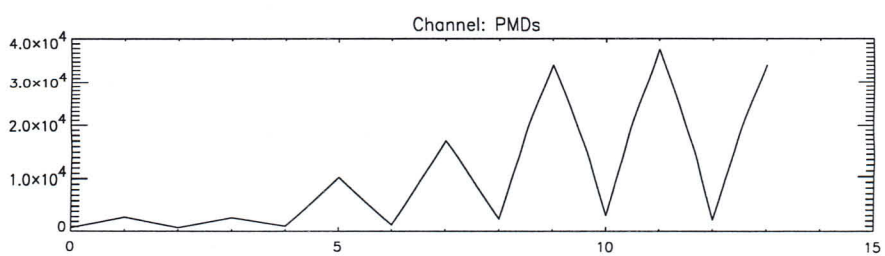
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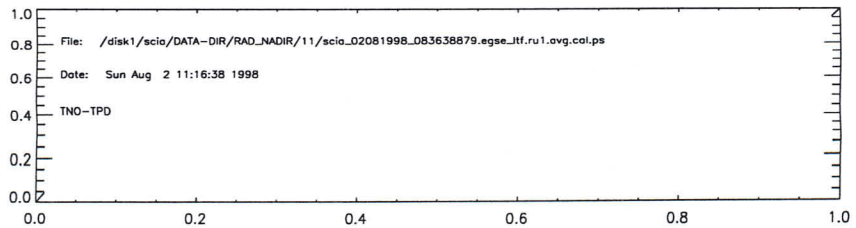
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Formal Run of Measurement (Measurement ID) GEN-NADIR

Request for Actual Status		(cross out entries that are **not** requested.)
Request for Modification		(fill in only entries to be modified)
Request for Run	X	(no entries = run based on actual default settings)

Scanner Positions

Azimuth	+46.00	deg
Elevation	-46.00	deg

Timeline for each Data Acquisition Period during Measurement

	1	2	3	4	5	6	7	8	9	10
State ID	33									
Repetitions	10									

State Parameters for States used in Timeline (State ID must be given)

Channel	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding
1a	64	1						
1b	64	1						
2b	8	8						
2a	8	8						
3	1	64						
4	0,5	64						
5	0,5	64						
6	0,125	64						
7	0,5	64						
8	1	64						
State ID								

Stimuli Settings for Existing Blocks in Measurement

Block No	Stimuli Setup ID	PPC [deg]	Polarizer [deg]	Shutter open/close	Acquisition Time [s]	Lambda [nm] Start	Stop	Step	Repetition Factor	Message	OS Setup Time [s]
1	0	-	-	-	-	-	-	0	1	BV1	
2	0	-	-	-	-	-	-	0	1	DV1	

Measurement Data Description

Test Purpose	UID 22
Remark	
Data Directory	0214_10.26.06_GEN-NADIR

Signatures

	Date	Signature
Issued	2-8-98	
< Performed	2-8-98	

STEP	ACTION	RESULT	MARKER
Intro	Your name:	A Bos	
	Date:	2-aug-1998	
	What's the name of the (main) data input files generated by the EGSE? (*.dat)	(0214_10.26.06_GEN_NADIR) scia_02081998_102953075.dat (A)	
	Setup a three-window configuration on your SUN.		see course descr.
Cnstr directory	cd ~/DATA-DIR/RAD-NADIR ; ls -l		Note: In window DATA-DIR
	highest number in directory?	11 (B)	
	New directory: mkdir <B+1> ls -l What's now the highest number in directory? <C> should be <B> + 1	# 12 (C) (Y)/N	
	directory name is:	~/DATA-DIR/RAD-NADIR/<C>	(DIR-NAME)
Copy data	See Analysis sheet: Transfer Data File	(Y)/N	In DATA-DIR window
Cnstr EGSE_LTF	cal_raw2ltf . (Error messages are not necessarily fatal; check with SOLAN --in solan window-- whether output file is okay: there should be a signal present, and dremark1 labels should be filled) ls -l *.egse_ltf What's the name of the egse_ltf file	scia_02081998_102953075.egse_ltf (D)	Note: In window DATA-DIR; ***don't forget the dot !!!;*** *May take more than 15 mins.*
	<D> should be <A>.egse_ltf	(Y)/N Here we see that we miss data!!	
Cnstr CAL files	idl run_averscia (and select file <D> when asked)		Note: In window IDL
Check CAL files	Dark files: ls -l *du*.avg.cal		In DATA-DIR window
	size:	≈150kb	should be approx 150Kb

`ls -l *ru*.avg.cal`

size: ~ 150kb _____ should be approx 150Kb

Note: all files should be present, if not:
(a) Check file <D> using SOLAN and check whether DU, and IU labels are present in dremark1 labels
(b) Check if enough disk space is available (Unix command `df -k | more`).

Print postscript

Print postscript files:
`lpr -P<printer> *.ps`
Contents dark file `*du*.avg.cal.ps` should be approx. constant within channels: (Y) / N
Contents light file `*ru*.avg.cal.ps` should resemble white light source: (Y) / N

Contents of `*rel_std*.ps` files should be smaller than 0.01 (pixel 300 -- 800) for all channels. (Y) / N

If not, value is: _____

Add postscript images to logbook, done Y / N

Print logfiles `lpr -P<printer> *.log`
Add logfiles to logbook, done Y / N

Radiance processing

Run radiance `idl do_radiance` In IDL window

Check radiance `ls -l * | more` In DATA-DIR window

Size of file `<D>.du*.avg.cal.p1.cal` ~ 150k _____ should be approx 150Kb

Size of file
<D>.du*.avg.cal.p2.cal _____ 15066.

Check radiance visually

lpr -P<printer>
.p[12]..cal.ps
Value of P1 and P2 file resemble white light source? (Y) / N

Add postscript images to logbook, done (Y) / N

Print logfiles

lpr -P<printer>
*.p[12].cal.log
Add logfiles to logbook, done (Y) / N

Back up

Create 3 sets of backup CDs of directory <DIR-NAME> (One CD has a capacity of 600 Mbytes, the UNIX command /usr/bin/du -k . gives the number of kilo bytes in the current directory).

See analysis sheet BackUp

Name of backup CDs _____

Sign:

Name _____

Date and time _____

Signature _____

STEP	ACTION	RESULT	MARKER
Intro	Your name:	_____	
	Date:	_____	
	What's the name of the (main) data input files generated by the EGSE? `(*.dat)`	_____	(A)
	Setup a three-window configuration on your SUN.		see course descr.
Cnstr directory	`cd ~/DATA-DIR/RAD-NADIR ; ls -l`		Note: In window DATA-DIR
	highest number in directory?	_____	(B)
	New directory: `mkdir <B+1>` `ls -l` What's now the highest number in directory?	_____	(C)
	<C> should be <B> + 1	Y / N	
	directory name is:	`~/DATA-DIR/RAD-NADIR/<C>`	(DIR-NAME)
Copy data	See Analysis sheet: Transfer Data File	Y / N	In DATA-DIR window
Cnstr EGSE_LTF	`cal_raw2ltf .` (Error messages are not necessarily fatal; check with SOLAN --in solan window-- whether output file is okay: there should be a signal present, and `dremark1` labels should be filled) `ls -l *.egse_ltf`		Note: In window DATA-DIR; ***don't forget the dot !!!;*** *May take more than 15 mins.*
	What's the name of the egse_ltf file	_____	(D)
	`<D> should be <A>.egse_ltf`	Y / N	
Cnstr CAL files	`idl run_averscia` (and select file <D> when asked)		Note: In window IDL
Check CAL files	Dark files: `ls -l *du*.avg.cal`		In DATA-DIR window
	size:	_____	should be approx 150Kb

	`ls -l *ru*.avg.cal`		
	size:	_____	should be approx 150Kb
	Note: all files should be present, if not: (a) Check file <D> using SOLAN and check whether DU, and IU labels are present in dremark1 labels (b) Check if enough disk space is available (Unix command `df -k | more`).		
Print postscript	Print postscript files: `lpr -P<printer> *.ps` Contents dark file `*du*.avg.cal.ps` should be approx. constant within channels:	Y / N	
	Contents light file `*ru*.avg.cal.ps` should resemble white light source:	Y / N	
	Contents of `*rel_std*.ps` files should be smaller than 0.01 (pixel 300 -- 800) for all channels.	Y / N	
	If not, value is:	_____	
	Add postscript images to logbook, done	Y / N	
Print logfiles	`lpr -P<printer> *.log`		
	Add logfiles to logbook, done	Y / N	

Radiance processing

Run radiance	`idl do_radiance`		In IDL window
Check radiance	`ls -l * | more`		In DATA-DIR window
	Size of file `<D>.du*.avg.cal.p1.cal`	_____	should be approx 150Kb

	Size of file <D>.du*.avg.cal.p2.cal	_____
Check radiance visually	lpr -P<printer> *.p[12].*.cal.ps Value of P1 and P2 file resemble white light source?	Y / N
	Add postscript images to logbook, done	Y / N
Print logfiles	lpr -P<printer> *.p[12].cal.log Add logfiles to logbook, done	Y / N
Back up	Create 3 sets of backup CDs of directory <DIR-NAME> (One CD has a capacity of 600 Mbytes, the UNIX command /usr/bin/du -k . gives the number of kilo bytes in the current directory). Name of backup CDs	_____ See analysis sheet BackUp
Sign:	Name	_____
	Date and time	_____
	Signature	_____

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	A. Bos 2-8-95	

Backup data	Let <D> be the directory you want to backup.
	`cd <D>`
	`mk_filetr`
	`ls -l | more`
	Are the files l_names and s_names present?
	If not, are you sure that the function `mk_filetr` executed?
	`./s_names`
	ls -l more
	All file names of the form `f<digit>`?
	`lpr -P<printer>`
	`s_names l_names`
	Add output to log book, done?
		DATA-DIR/RAD_NADIR/12.
		Y / N
		Y ? N
		Y / N	

	Via ftp on CD-writer PC: copy files in directory <D> (including s_names and s_names) to PC (On PC maintain directory structure of DATA-DIR).	files in directory on PC	
Backup CORR directory	Do always Let <D> be the directory `~/DATA-DIR/CORR`		
	Via ftp on CD-writer PC: copy files in directory <D> to PC (On PC maintain directory structure of DATA-DIR). So, you write the whole contents of the `DATA-DIR/CORR` directory.	files in directory on PC	
Backup:	Write 3CDs (Follow JGS' Gear instructions), Done?	Y / N	
Back up On MOD:	Copy (via FTP) data from SUN named `scia6` to SUN named `tpdezo`.		

Instructions printed = mastermap

Copy to MOD (Follow instructions in file `/home/drz/DOC/MOD*`) Note, normally, you don't have to mount the MOD. Updated

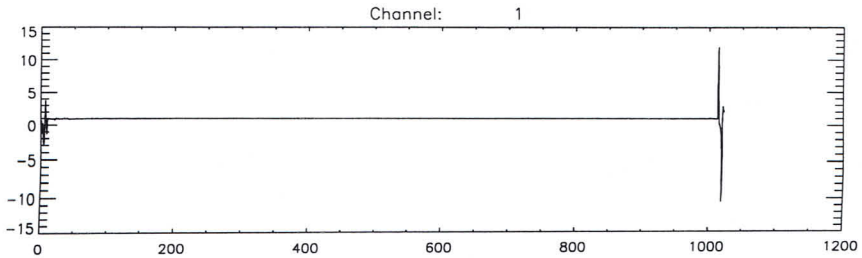
Copy contents of one CD (or via ftp) on the two other SUN workstations that are used for offline analysis, Done? Y / N

Sign:

Name RB

Date and time

Signature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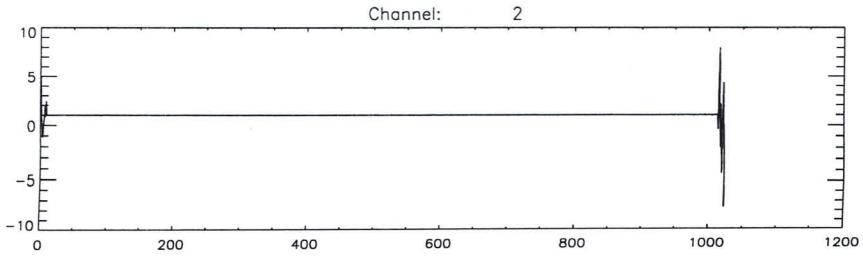
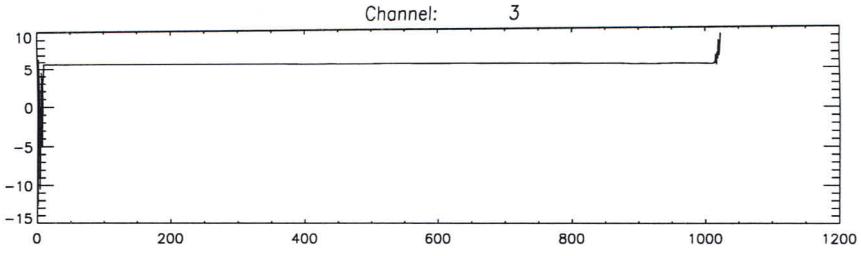
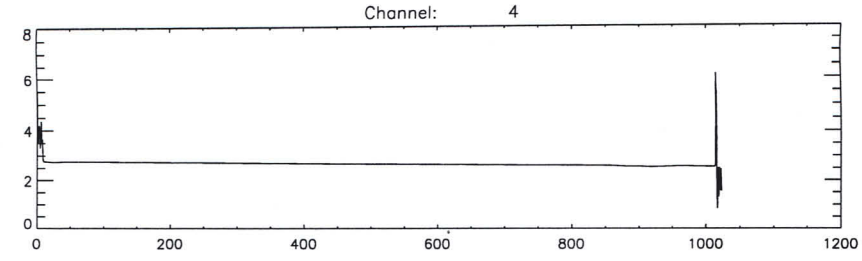

Channel: 2


Channel: 3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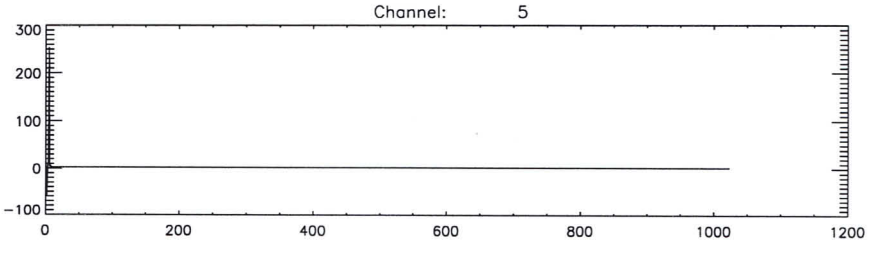
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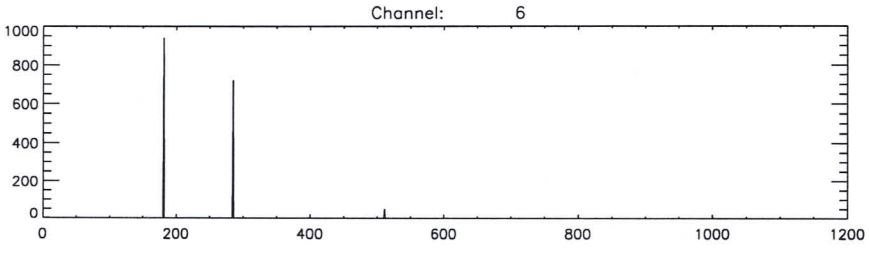
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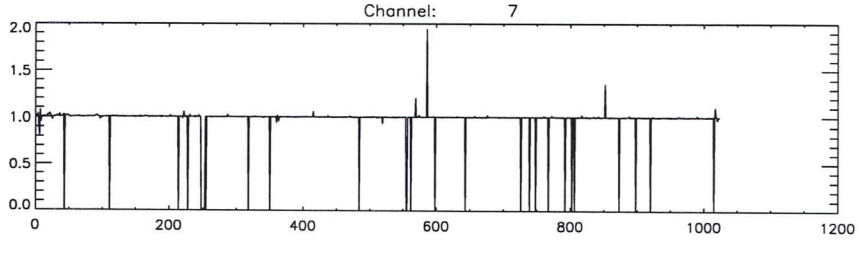
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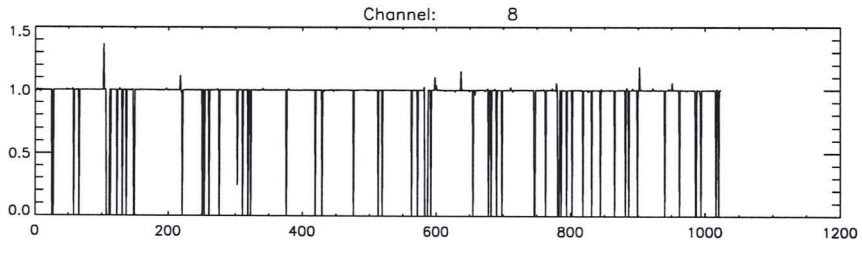
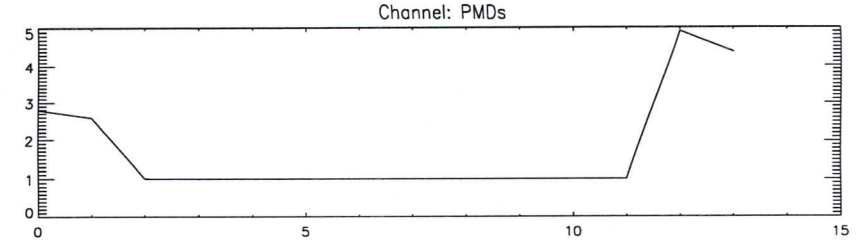
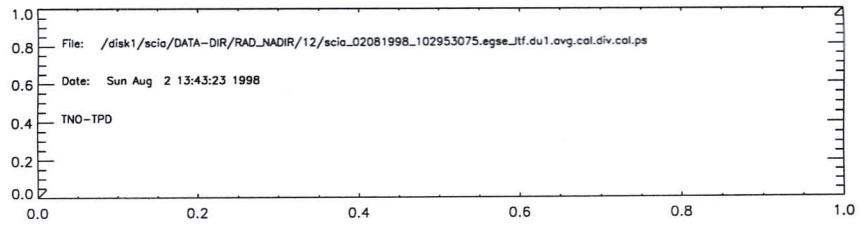

Channel: 8


Channel: PMDs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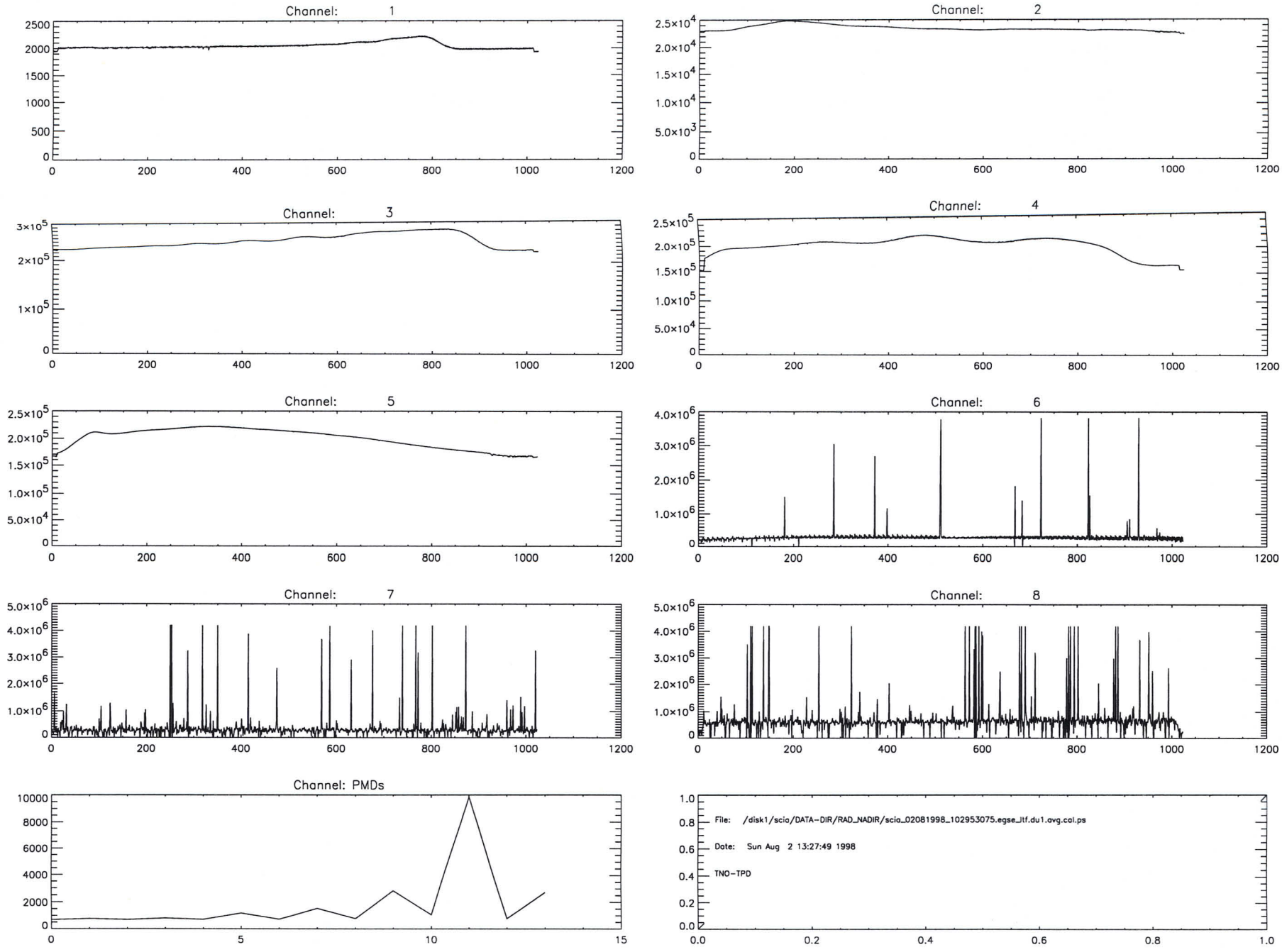
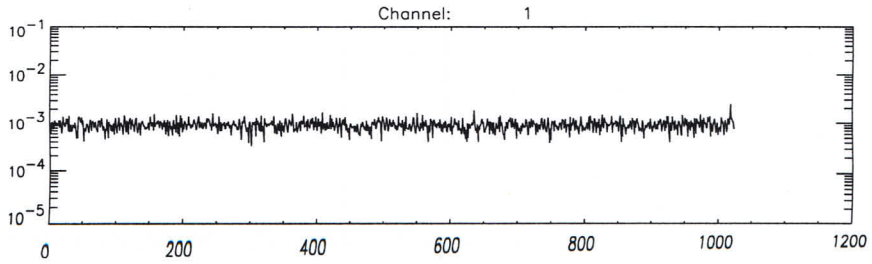
Date: Sun Aug 2 13:43:23 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_NADIR/scia_02081998_102953075.egse_itf.du1.avg.cal.ps
Date: Sun Aug 2 13:27:49 1998
TNO-TPD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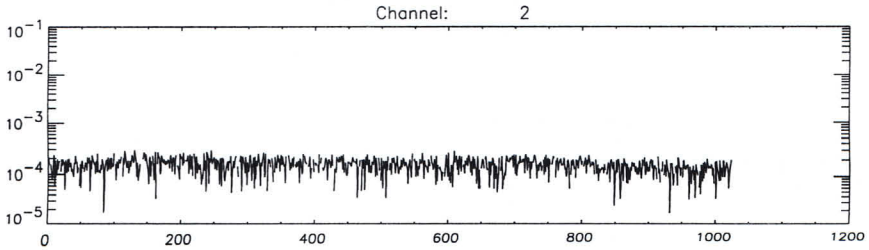
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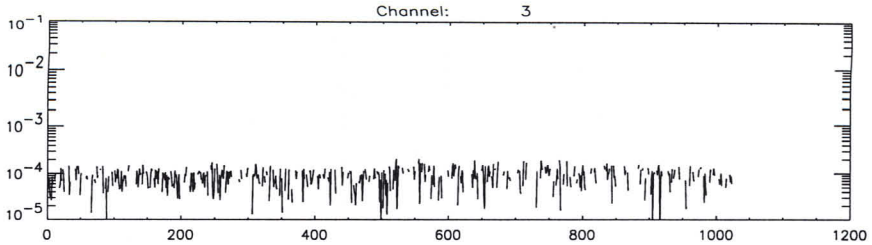
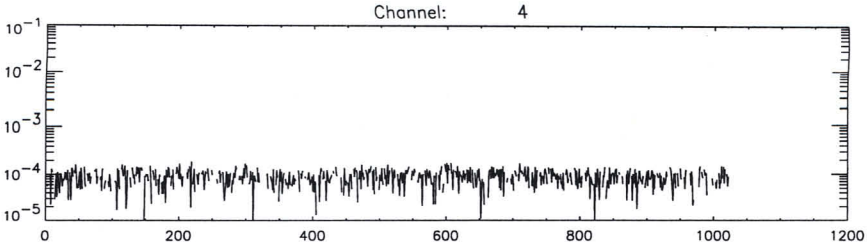
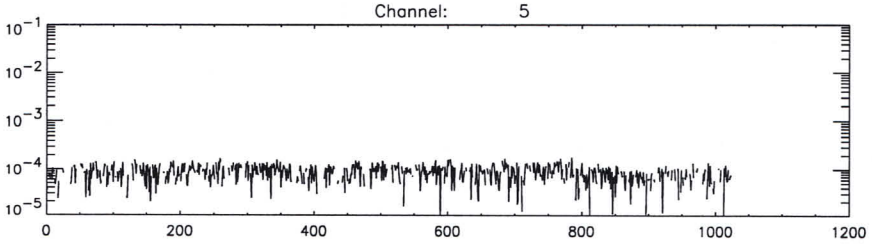
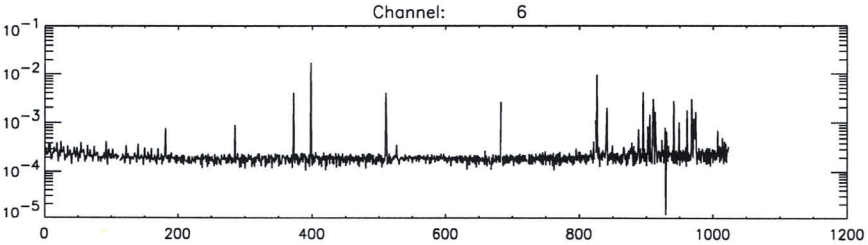
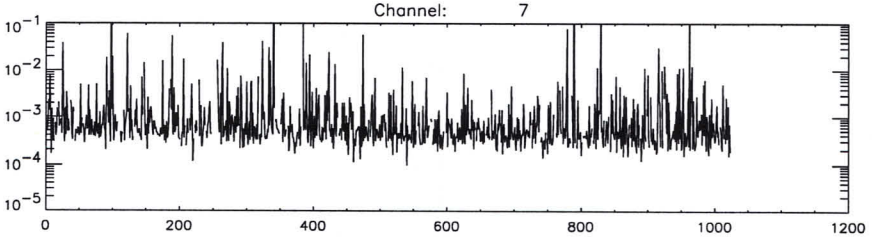
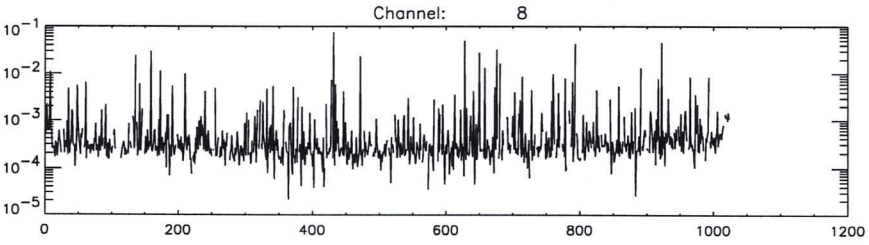

Channel: 3

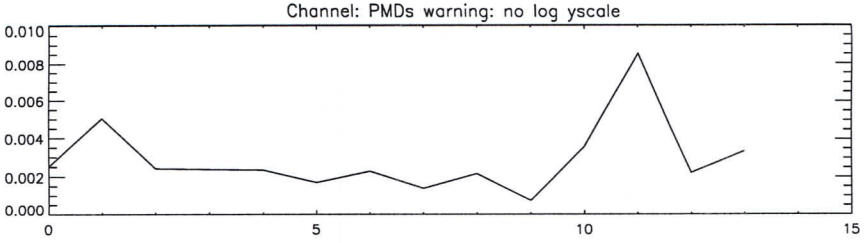

Channel: 4

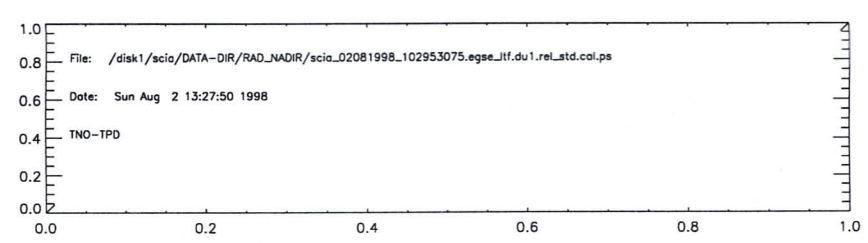

Channel: 5

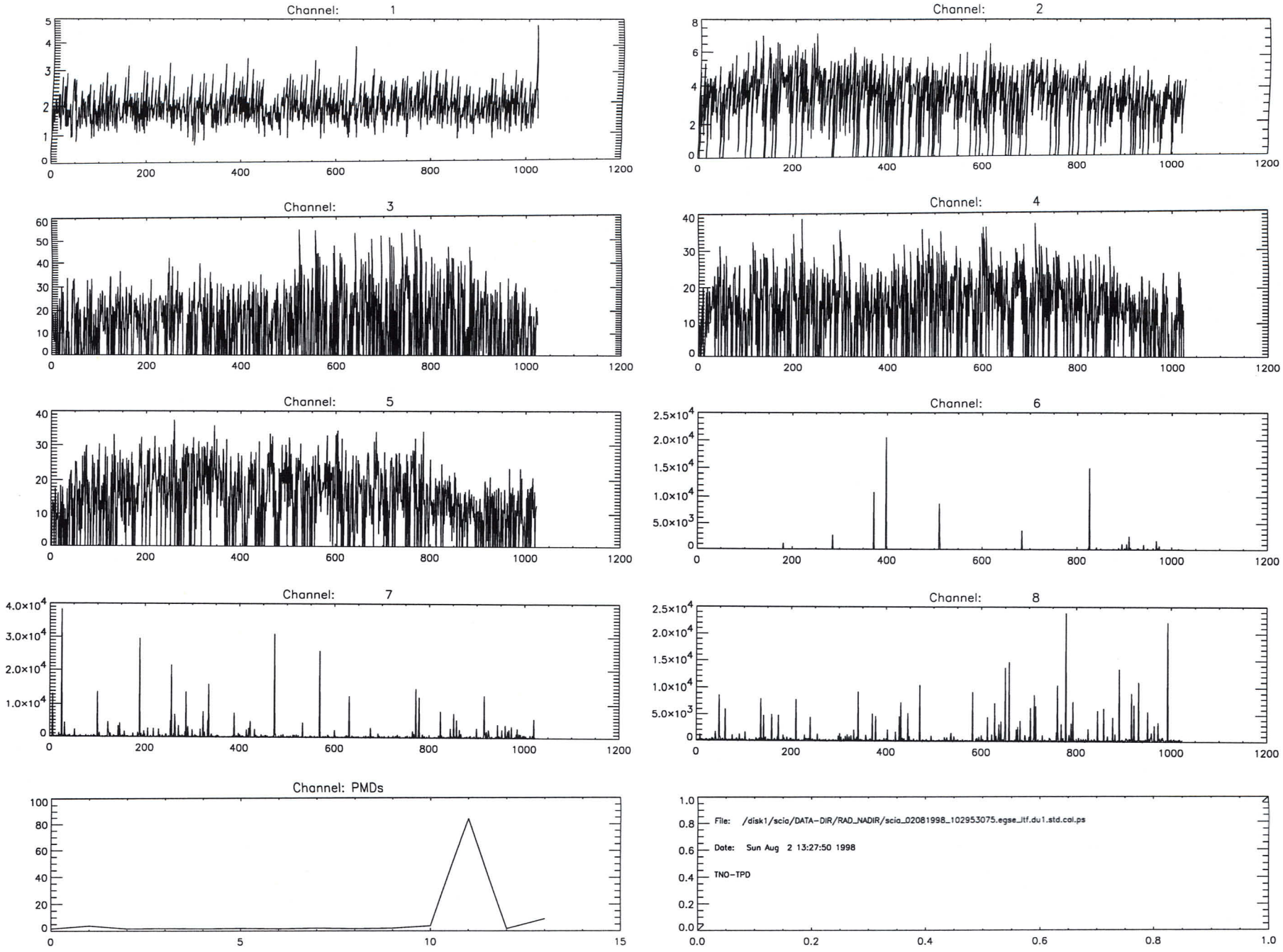

Channel: 6

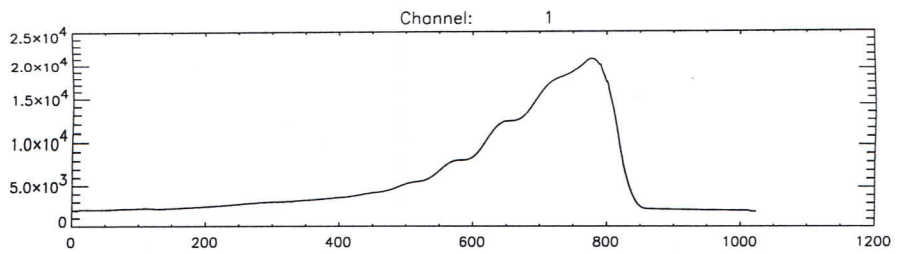

Channel: 7

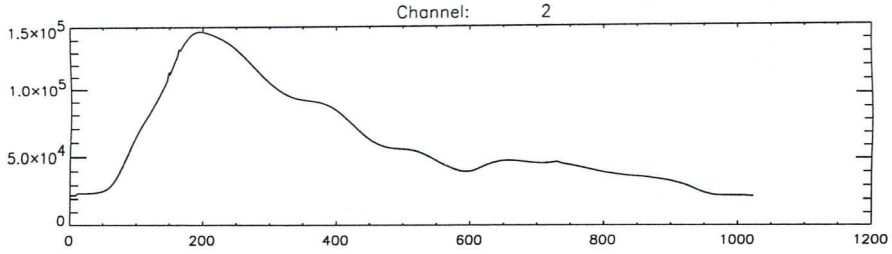

Channel: 8


Channel: PMDs warning: no log yscale


File: /disk1/scia/DATA-DIR/RAD_NADIR/scia_02081998_102953075.egse_ltf.du1.rel_std.cal.ps
Date: Sun Aug 2 13:27:50 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_NADIR/scia_02081998_102953075.egse_itf.du1.std.cal.ps
Date: Sun Aug 2 13:27:50 1998
TNO-TPD


Channel: 1
2.5x10^4
2.0x10^4
1.5x10^4
1.0x10^4
5.0x10^3
0
0
200
400
600
800
1000
1200


Channel: 2
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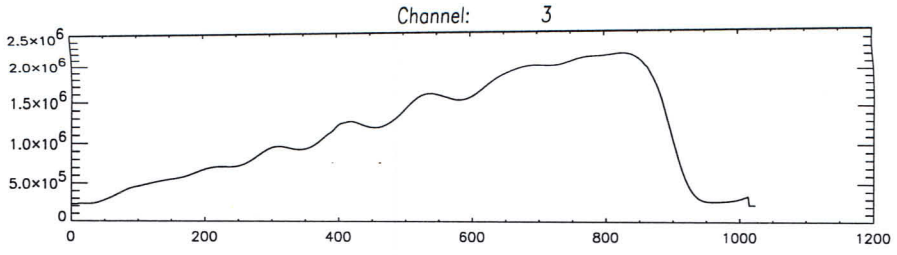
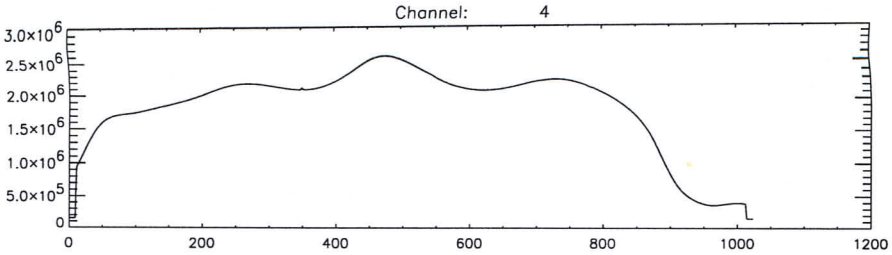
1.0x10^5
5.0x10^4
0
0
200
400
600
800
1000
1200


Channel: 3
2.5x10^6
2.0x10^6
1.5x10^6
1.0x10^6
5.0x10^5
0
0
200
400
600
800
1000
1200


Channel: 4
3.0x10^6
2.5x10^6
2.0x10^6
1.5x10^6
1.0x10^6
5.0x10^5
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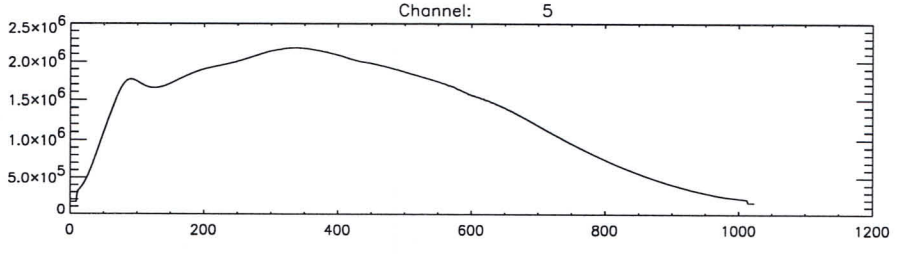
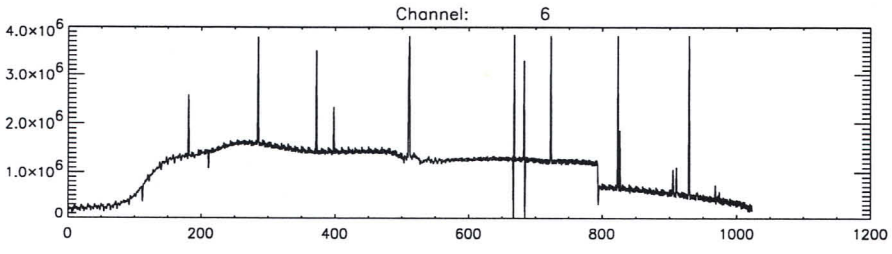
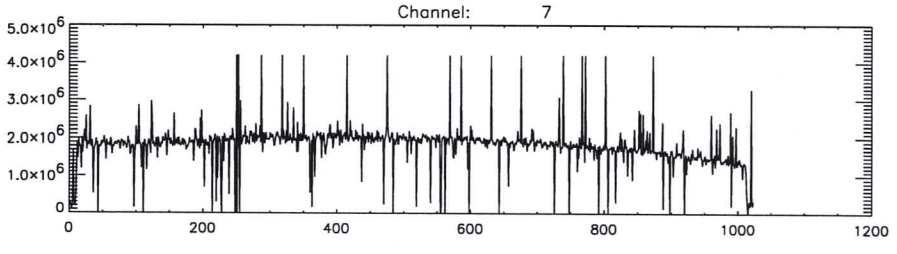
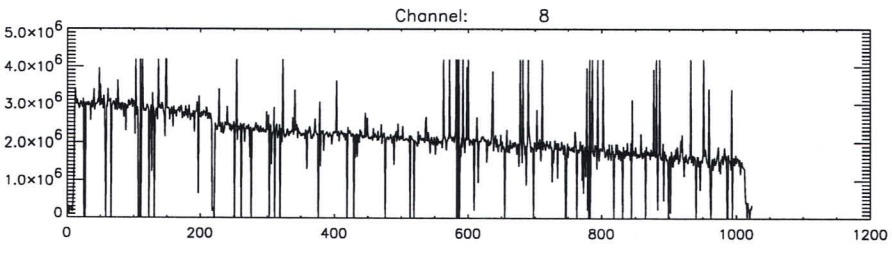
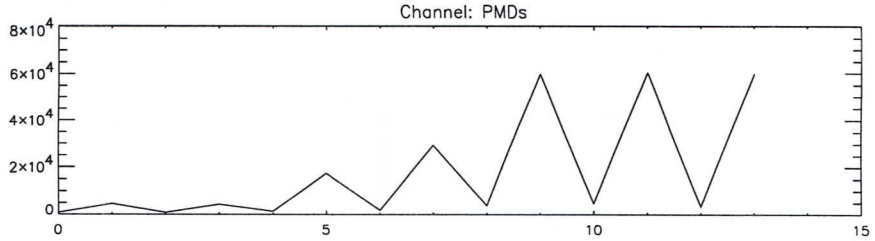
200
400
600
800
1000
1200

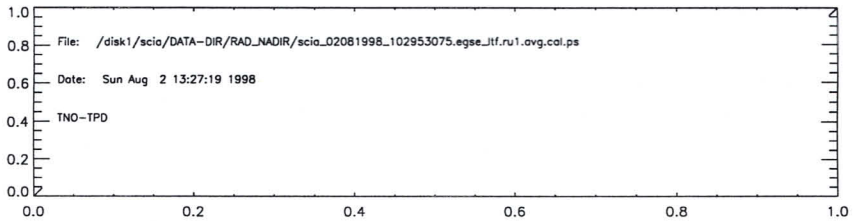

Channel: 5
2.5x10^6
2.0x10^6
1.5x10^6
1.0x10^6
5.0x10^5
0
0
200
400
600
800
1000
1200

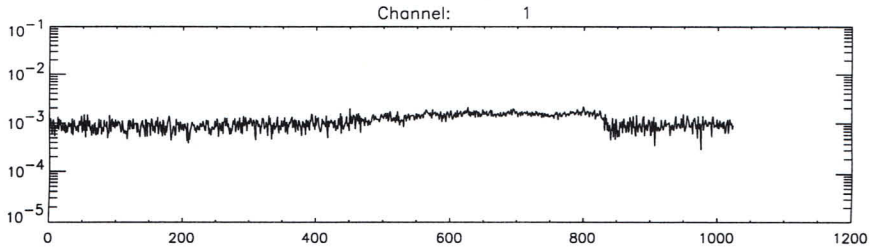

Channel: 6
4.0x10^6
3.0x10^6
2.0x10^6
1.0x10^6
0
0
200
400
600
800
1000
1200

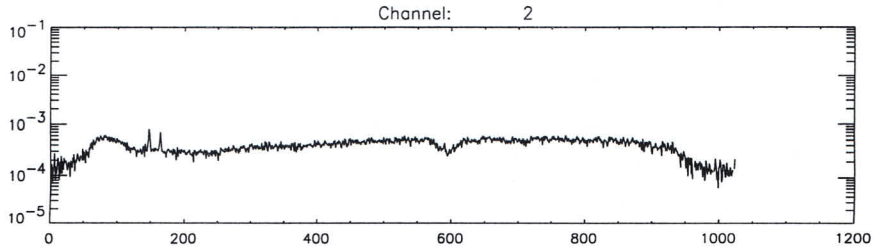

Channel: 7
5.0x10^6
4.0x10^6
3.0x10^6
2.0x10^6
1.0x10^6
0
0
200
400
600
800
1000
1200

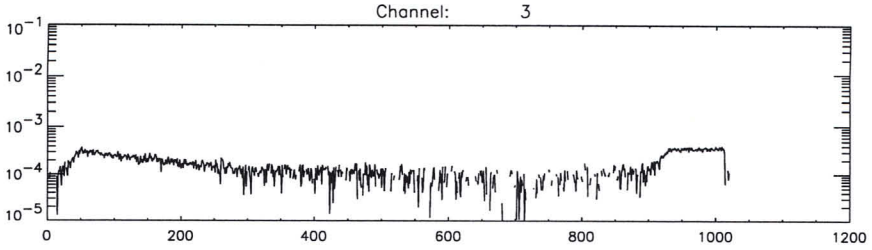

Channel: 8
5.0x10^6
4.0x10^6
3.0x10^6
2.0x10^6
1.0x10^6
0
0
200
400
600
800
1000
1200

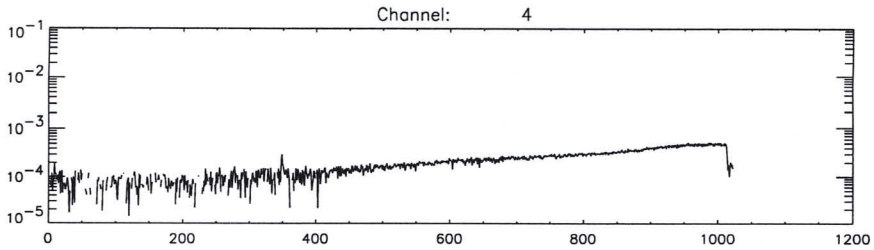

Channel: PMDs
8x10^4
6x10^4
4x10^4
2x10^4
0
0
5
10
15

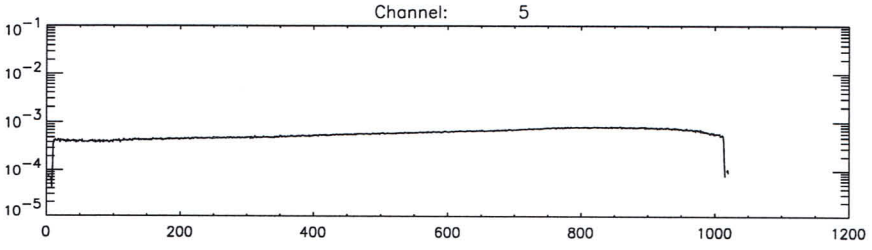

File: /disk1/scia/DATA-DIR/RAD_NADIR/scia_02081998_102953075.egse_ltf.ru1.avg.cal.ps
Date: Sun Aug 2 13:27:19 1998
TNO-TPD
1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0

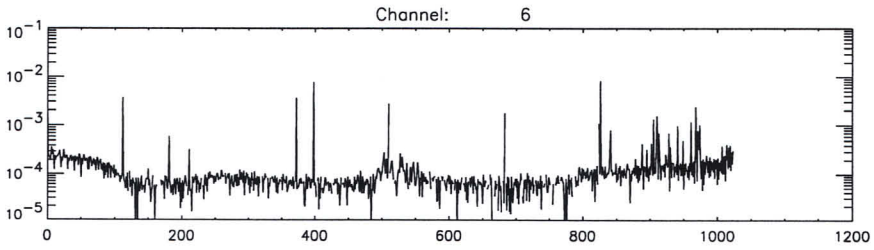

Channel: 1

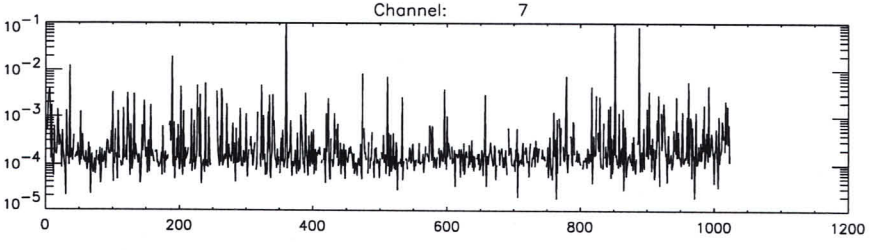

Channel: 2

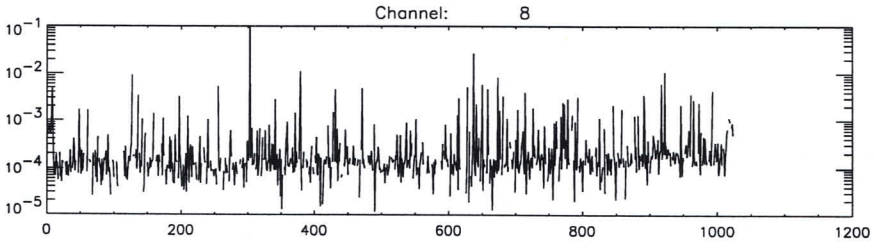

Channel: 3

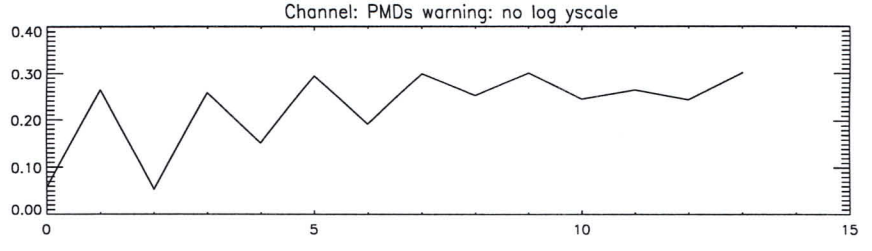

Channel: 4

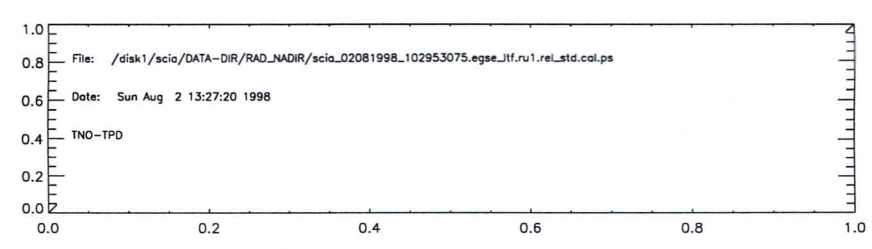

Channel: 5

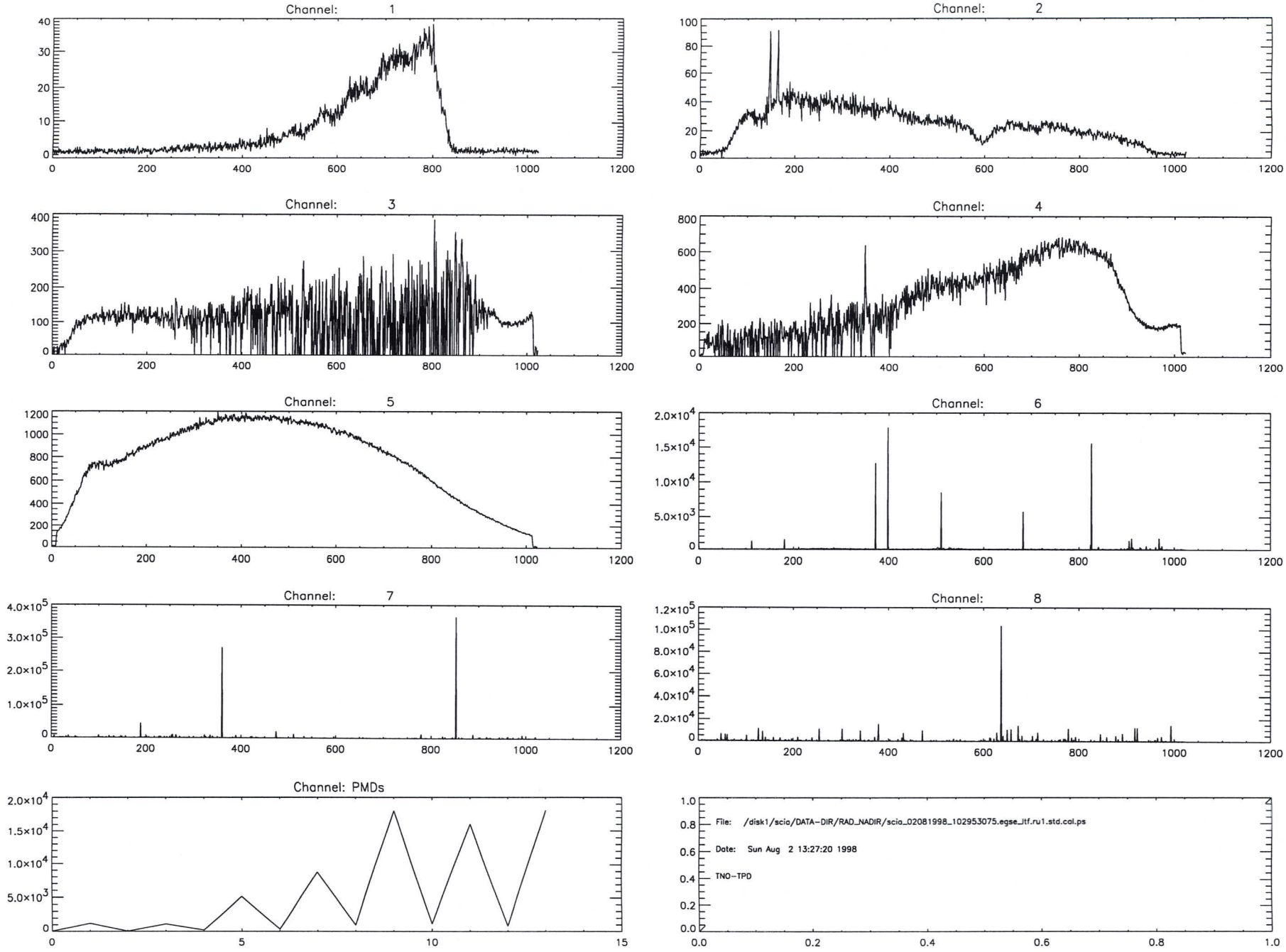

Channel: 6


Channel: 7


Channel: 8

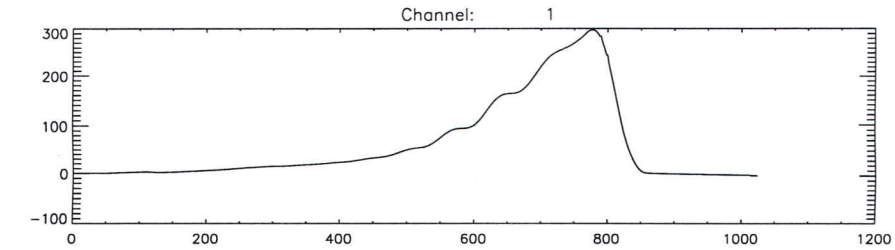

Channel: PMDs warning: no log yscale

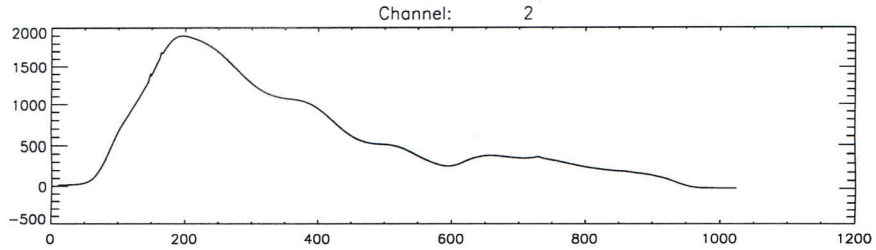

File: /disk1/scia/DATA-DIR/RAD_NADIR/scia_02081998_102953075.egse_ltf.ru1.rel_std.cal.ps
Date: Sun Aug 2 13:27:20 1998
TNO-TPD

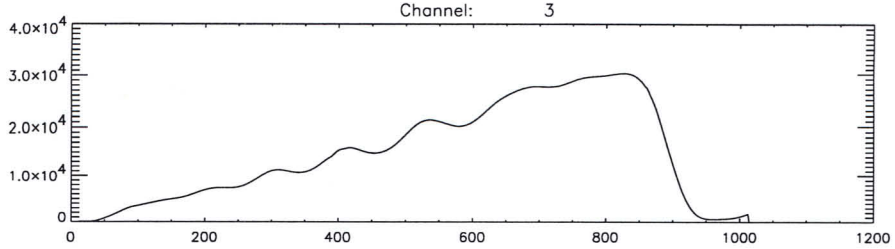

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_NADIR/scia_02081998_102953075.egse_itf.ru1.std.cal.ps
Date: Sun Aug 2 13:27:20 1998
TNO-TPD

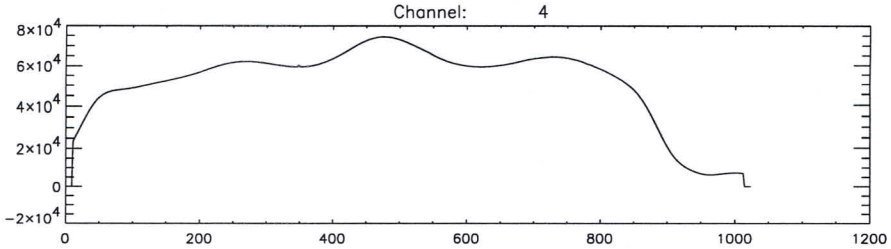
```
time       = Sun Aug  2 13:27:50 1998
batch      = du1
Start TOD  = Sun 02-Aug-98 10:43:19
End   TOD  = Sun 02-Aug-98 10:55:09
Processing= computation of average, standard dev. and rel.standard dev.
```

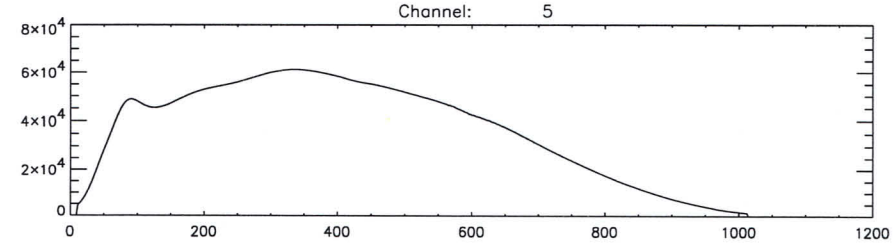
```
:ime       = Sun Aug   2 13:27:20 1998
)atch      = ru1
;tart TOD = Sun 02-Aug-98 10:29:56
;nd   TOD = Sun 02-Aug-98 10:43:19
)rocessing= computation of average, standard dev. and rel.standard dev.
```

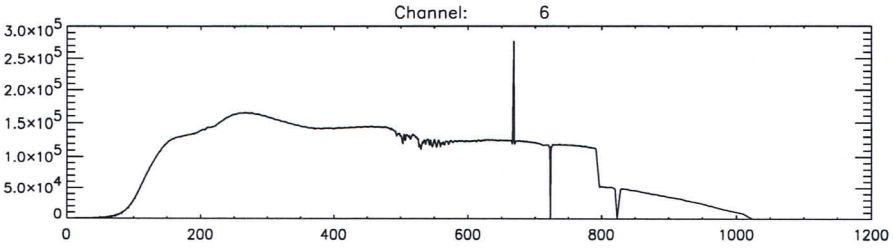

Channel: 1
300
200
100
0
−100
0
200
400
600
800
1000
1200

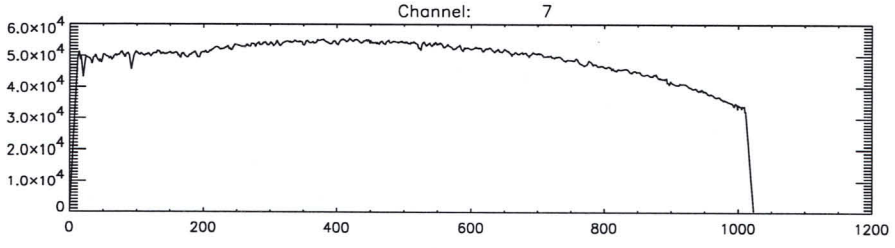

Channel: 2
2000
1500
1000
500
0
−500
0
200
400
600
800
1000
1200

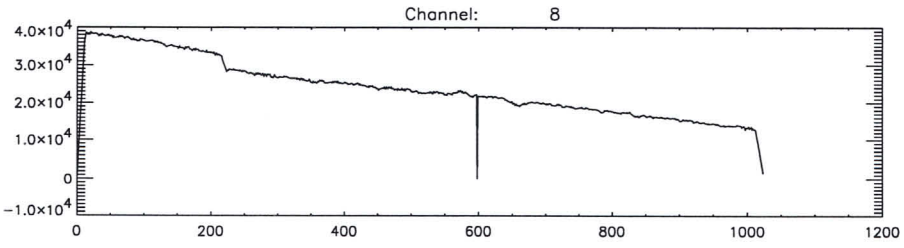

Channel: 3
4.0x10^4
3.0x10^4
2.0x10^4
1.0x10^4
0
0
200
400
600
800
1000
1200

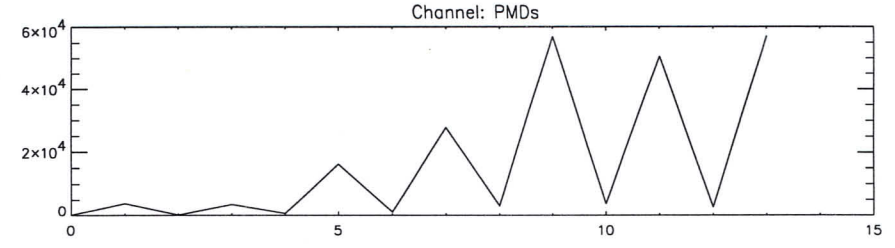

Channel: 4
8x10^4
6x10^4
4x10^4
2x10^4
0
−2x10^4
0
200
400
600
800
1000
1200

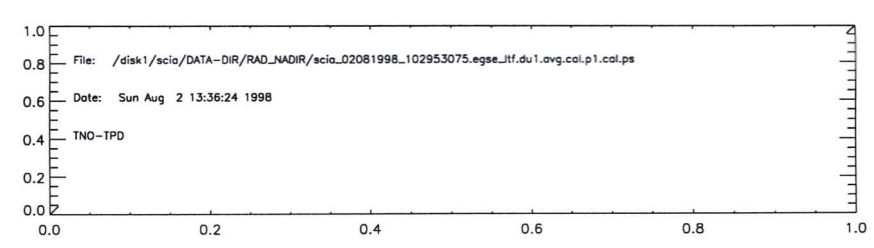

Channel: 5
8x10^4
6x10^4
4x10^4
2x10^4
0
0
200
400
600
800
1000
1200

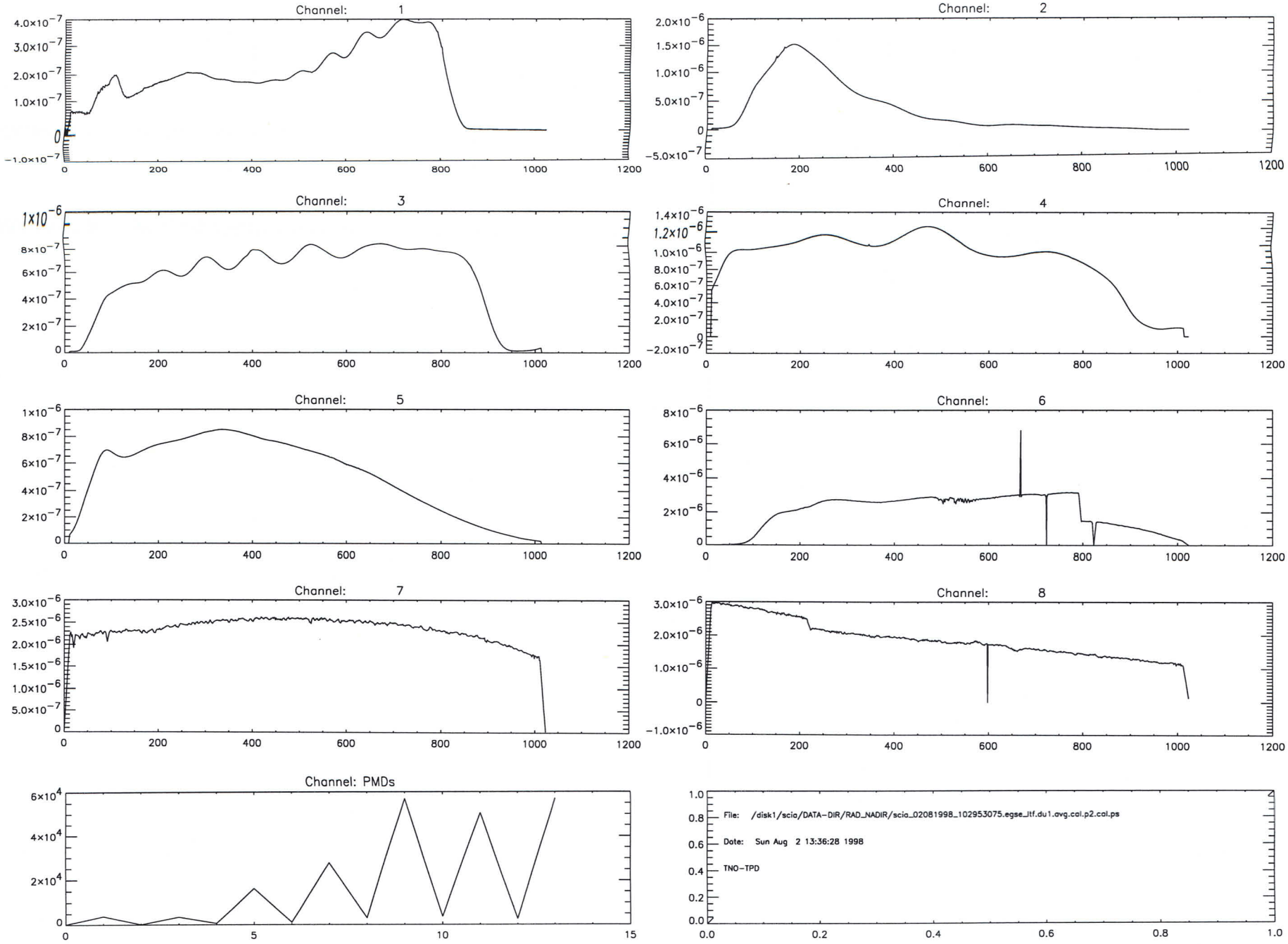

Channel: 6
3.0x10^5
2.5x10^5
2.0x10^5
1.5x10^5
1.0x10^5
5.0x10^4
0
0
200
400
600
800
1000
1200


Channel: 7
6.0x10^4
5.0x10^4
4.0x10^4
3.0x10^4
2.0x10^4
1.0x10^4
0
0
200
400
600
800
1000
1200


Channel: 8
4.0x10^4
3.0x10^4
2.0x10^4
1.0x10^4
0
−1.0x10^4
0
200
400
600
800
1000
1200


Channel: PMDs
6x10^4
4x10^4
2x10^4
0
0
5
10
15


File: /disk1/scia/DATA-DIR/RAD_NADIR/scia_02081998_102953075.egse_ltf.du1.avg.cal.p1.cal.ps
Date: Sun Aug 2 13:36:24 1998
TNO-TPD
1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_NADIR/scia_02081998_102953075.egse_itf.du1.avg.cal.p2.cal.ps
Date: Sun Aug 2 13:36:28 1998
TNO-TPD

```
Version:  0.1
Input files:

/disk1/scia/DATA-DIR/RAD_NADIR/scia_02081998_102953075.egse_ltf.du1.avg.cal
 and

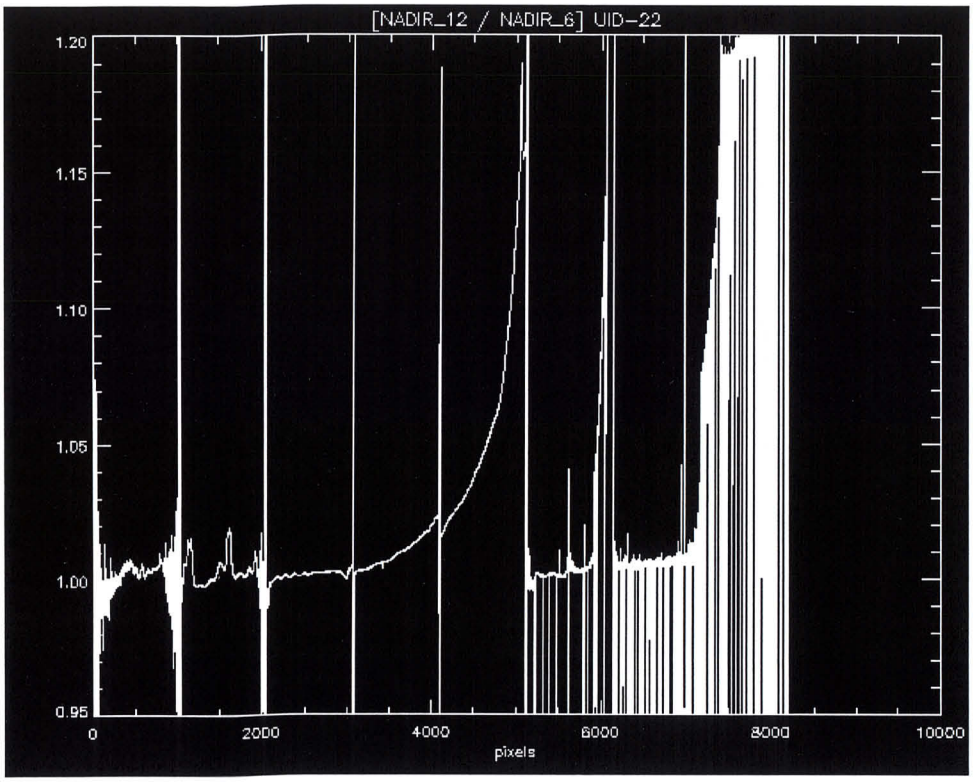
/disk1/scia/DATA-DIR/RAD_NADIR/scia_02081998_102953075.egse_ltf.ru1.avg.cal
Action:
Radiance calibration: No correction bsdf, transmission and e_cal
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/310798/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/310798/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/310798/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/310798/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/310798/stray.da
Processing time: Sun Aug  2 13:36:24 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_NADIR/scia_02081998_102953075.egse_ltf.du1.avg.cal.p1
Ambient files:
Ambient Correction file versions ac_ucp = # VERSION 0.0
ac_ucs = #VERSION 0.0
ala4lp = #VERSION 0.0
ala4ls = #VERSION 0.0
ala4lx = #VERSION 0.0
alamlp = #VERSION 0.0
   mls = #VERSION 0.0
alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
alaulp = #VERSION 0.0
alauls = #VERSION 0.0
anapnp = #VERSION 0.0
anapnx = #VERSION 0.0
anaunp = #VERSION 0.0 ASAP data
anauns = #VERSION 0.0 ASAP data
bsdf = #Date: 15/06/98 NOTE: This is preliminary data! The final keydata must
optec_window = #VERSION 0.0
reflectance = #VERSION 0.0
```

Version: 0.1
Input files:

/disk1/scia/DATA-DIR/RAD_NADIR/scia_02081998_102953075.egse_ltf.du1.avg.cal
 and

/disk1/scia/DATA-DIR/RAD_NADIR/scia_02081998_102953075.egse_ltf.ru1.avg.cal
Action:
Radiance calibration + divided by calibrated irradiance + divded by bsdf + div
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/310798/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/310798/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/310798/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/310798/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/310798/stray.da
Processing time: Sun Aug 2 13:36:27 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_NADIR/scia_02081998_102953075.egse_ltf.du1.avg.cal.p2
Ambient files:
Ambient Correction file versions ac_ucp = # VERSION 0.0
ac_ucs = #VERSION 0.0
ala4lp = #VERSION 0.0
ala4ls = #VERSION 0.0
ala4lx = #VERSION 0.0
alamlp = #VERSION 0.0
   amls = #VERSION 0.0
alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
alaulp = #VERSION 0.0
alauls = #VERSION 0.0
anapnp = #VERSION 0.0
anapnx = #VERSION 0.0
anaunp = #VERSION 0.0 ASAP data
anauns = #VERSION 0.0 ASAP data
bsdf = #Date: 15/06/98 NOTE: This is preliminary data! The final keydata must
optec_window = #VERSION 0.0
reflectance = #VERSION 0.0

Ratio


[NADIR_12 / NADIR_6] UID=22
1.20
1.15
1.10
1.05
1.00
0.95
0
2000
4000
6000
8000
10000
pixels

```
#! /bin/sh
mv f0 dapbchklog
mv f1 dapbseqlog
mv f2 egse.inf
mv f3 gemsmpara.dat
mv f4 hk_ccb.dat
mv f5 scia_02081998_102953075.dat
mv f6 scia_02081998_102953075.egse_ltf
mv f7 scia_02081998_102953075.egse_ltf.du1.avg.cal
mv f8 scia_02081998_102953075.egse_ltf.du1.avg.cal.div.cal
mv f9 scia_02081998_102953075.egse_ltf.du1.avg.cal.div.cal.log
mv f10 scia_02081998_102953075.egse_ltf.du1.avg.cal.div.cal.ps
mv f11 scia_02081998_102953075.egse_ltf.du1.avg.cal.div.cal.ps.log
mv f12 scia_02081998_102953075.egse_ltf.du1.avg.cal.p1.cal
mv f13 scia_02081998_102953075.egse_ltf.du1.avg.cal.p1.cal.log
mv f14 scia_02081998_102953075.egse_ltf.du1.avg.cal.p1.cal.ps
mv f15 scia_02081998_102953075.egse_ltf.du1.avg.cal.p1.cal.ps.log
mv f16 scia_02081998_102953075.egse_ltf.du1.avg.cal.p2.cal
mv f17 scia_02081998_102953075.egse_ltf.du1.avg.cal.p2.cal.keydata
mv f18 scia_02081998_102953075.egse_ltf.du1.avg.cal.p2.cal.log
mv f19 scia_02081998_102953075.egse_ltf.du1.avg.cal.p2.cal.ps
mv f20 scia_02081998_102953075.egse_ltf.du1.avg.cal.p2.cal.ps.log
   f21 scia_02081998_102953075.egse_ltf.du1.avg.cal.ps
mv f22 scia_02081998_102953075.egse_ltf.du1.log
mv f23 scia_02081998_102953075.egse_ltf.du1.rel_std.cal
mv f24 scia_02081998_102953075.egse_ltf.du1.rel_std.cal.ps
mv f25 scia_02081998_102953075.egse_ltf.du1.std.cal
mv f26 scia_02081998_102953075.egse_ltf.du1.std.cal.ps
mv f27 scia_02081998_102953075.egse_ltf.ru1.avg.cal
mv f28 scia_02081998_102953075.egse_ltf.ru1.avg.cal.ps
mv f29 scia_02081998_102953075.egse_ltf.ru1.log
mv f30 scia_02081998_102953075.egse_ltf.ru1.rel_std.cal
mv f31 scia_02081998_102953075.egse_ltf.ru1.rel_std.cal.ps
mv f32 scia_02081998_102953075.egse_ltf.ru1.std.cal
mv f33 scia_02081998_102953075.egse_ltf.ru1.std.cal.ps
```

```
#! /bin/sh
mv dapbchklog f0
mv dapbseqlog f1
mv egse.inf f2
mv gemsmpara.dat f3
mv hk_ccb.dat f4
mv scia_02081998_102953075.dat f5
mv scia_02081998_102953075.egse_ltf f6
mv scia_02081998_102953075.egse_ltf.du1.avg.cal f7
mv scia_02081998_102953075.egse_ltf.du1.avg.cal.div.cal f8
mv scia_02081998_102953075.egse_ltf.du1.avg.cal.div.cal.log f9
mv scia_02081998_102953075.egse_ltf.du1.avg.cal.div.cal.ps f10
mv scia_02081998_102953075.egse_ltf.du1.avg.cal.div.cal.ps.log f11
mv scia_02081998_102953075.egse_ltf.du1.avg.cal.p1.cal f12
mv scia_02081998_102953075.egse_ltf.du1.avg.cal.p1.cal.log f13
mv scia_02081998_102953075.egse_ltf.du1.avg.cal.p1.cal.ps f14
mv scia_02081998_102953075.egse_ltf.du1.avg.cal.p1.cal.ps.log f15
mv scia_02081998_102953075.egse_ltf.du1.avg.cal.p2.cal f16
mv scia_02081998_102953075.egse_ltf.du1.avg.cal.p2.cal.keydata f17
mv scia_02081998_102953075.egse_ltf.du1.avg.cal.p2.cal.log f18
mv scia_02081998_102953075.egse_ltf.du1.avg.cal.p2.cal.ps f19
mv scia_02081998_102953075.egse_ltf.du1.avg.cal.p2.cal.ps.log f20
r   scia_02081998_102953075.egse_ltf.du1.avg.cal.ps f21
mv scia_02081998_102953075.egse_ltf.du1.log f22
mv scia_02081998_102953075.egse_ltf.du1.rel_std.cal f23
mv scia_02081998_102953075.egse_ltf.du1.rel_std.cal.ps f24
mv scia_02081998_102953075.egse_ltf.du1.std.cal f25
mv scia_02081998_102953075.egse_ltf.du1.std.cal.ps f26
mv scia_02081998_102953075.egse_ltf.ru1.avg.cal f27
mv scia_02081998_102953075.egse_ltf.ru1.avg.cal.ps f28
mv scia_02081998_102953075.egse_ltf.ru1.log f29
mv scia_02081998_102953075.egse_ltf.ru1.rel_std.cal f30
mv scia_02081998_102953075.egse_ltf.ru1.rel_std.cal.ps f31
mv scia_02081998_102953075.egse_ltf.ru1.std.cal f32
mv scia_02081998_102953075.egse_ltf.ru1.std.cal.ps f33
```

Pagenumber:

LOG SHEET SCIAMACHY CALIBRATION

date/time	description of action	measuremement filename
2/8/98 11:45 (UCT)	start measurement of uID 35 step 2-9	
12:48 (UCT)	measurement ended	
	dark and light signal seems ok	
	p1 and p2 seems ok	
	Ratio calculations with / without ND filters § 2-8 en § 2-9	
	rad - Nadir 13 / rad Nadir 12 and ~~Transferred to~~ this is ND transmission	RAD-NADIR/13/RATIO13.12
	seems ok	
	Ratio calculation with ND at minimum distance and at minimum distance +50 ~~ft~~ cm rad - Nadir 13 / rad - Nadir 10	RAD-NADIR/13/RATIO13.10
	§ 2-9 and § 2-7d	
	Values are about one small wrinkle in channel 6	
	Channel 1 : 1% off	
	channel 2-5 : 0.5% off	
	channel 6 : H_2O rimple	
	channel 7 0.5% off	
	channel 8 ok	

Formal Run of Measurement

(Measurement ID) [redacted]

GEN_NDF_NADIR

Request for Actual Status		(cross out entries that are not requested.)
Request for Modification		(fill in only entries to be modified)
Request for Run	X	(no entries = run based on actual default settings)

Scanner Positions

Azimuth	+45	deg
Elevation	-45	deg

Timeline for each Data Acquisition Period during Measurement

	1	2	3	4	5	6	7	8	9	10
State ID	34									
Repetitions	10									

State Parameters for States used in Timeline (State ID must be given)

Channel	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding
1a	64	1						
1b	64	1						
2b	8	8						
2a	8	8						
3	4	16						
4	2	32						
5	2	32						
6	0,5	64						
7	0,5	64						
8	1	64						
State ID								

Stimuli Settings for Existing Blocks in Measurement

Block No	Stimuli Setup ID	PPC [deg]	Polarizer [deg]	Shutter open/close	Acquisition Time [s]	Lambda [nm] Start	Stop	Step	Repetition Factor	Message	OS Setup Time [s]
1	0	-	-	-	-	-	-	0	1	RU1	
2	0	-	-	-	-	-	-	0	1	SDU1	

Measurement Data Description

Test Purpose	UID 35
Remark	
Data Directory	0214_11.58.03_GEN_NDF_NADIR

Signatures

	Date	Signature
Issued	2-8-'98	
< Performed	2.8.98	

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Wendell Lynch 02-08-1998	
	What's the name of the (main) data input files that you want to store on the SUN named `scia6`?	scia-020819g8.120108790.dat	(A)
	Setup a three-window configuration on your SUN.		See course descr.
Do Transfer	Be sure that you are in the directory you want your files in ftp <internet-address>, where you can find the address of the PC in the file `/etc/hosts` (entry: cdwpc). The address will also be next to you on paper (most probably). When asked for user, fill in: `anonymous`, when asked for an email address, fill in your email address on TPD. Set in binary: `binary` `mget *` (and return `y` to every file). `bye`		In DATA-DIR window In DATA window Approx. 140 kB

Sign:		
	Name	Wendell Lynch
	Date and time	02-08-98 13.10 uTC
	Signature	

STEP	ACTION	RESULT	MARKER
Intro	Your name:	Wendell Lynch	
	Date:	02-08-1998	
	What's the name of the (main) data input files generated by the EGSE? `(*.dat)`	scia_0208q98_12010870.dat	(A)
	Setup a three-window configuration on your SUN.		see course descr.
Cnstr directory	`cd ~/DATA-DIR/RAD-NADIR ; ls -l`		Note: In window DATA-DIR
	highest number in directory?	12	(B)
	New directory: `mkdir <B+1>` `ls -l` What's now the highest number in directory?	13	(C)
	<C> should be <B> + 1	(Y) / N	
	directory name is:	~/DATA-DIR/RAD-NADIR/<13>	(DIR-NAME)
Copy data	See Analysis sheet: Transfer Data File	(Y) / N	In DATA-DIR window
Cnstr EGSE_LTF	`cal_raw2ltf .` (Error messages are not necessarily fatal; check with SOLAN --in solan window-- whether output file is okay: there should be a signal present, and `dremark1` labels should be filled) `ls -l *.egse_ltf`		Note: In window DATA-DIR; ***don't forget the dot !!!;*** *May take more than 15 mins.*
	What's the name of the egse_ltf file	scia_0208q98_12010870.egse.ltf	(D)
	<D> should be <A>.egse_ltf	(Y) / N	
Cnstr CAL files	`idl run_averscia` (and select file <D> when asked)		Note: In window IDL
Check CAL files	Dark files: `ls -l *du*.avg.cal`		In DATA-DIR window
	size:	145.998	should be approx 150Kb

`ls -l *ru*.avg.cal`

size: 145.998 — should be approx 150Kb

Note: all files should be present, if not:
(a) Check file <D> using SOLAN and check whether DU, and IU labels are present in dremark1 labels
(b) Check if enough disk space is available (Unix command `df -k | more`).

Print postscript

Print postscript files:
`lpr -P<printer> *.ps`
Contents dark file `*du*.avg.cal.ps` should be approx. constant within channels: (Y) / N
Contents light file `*ru*.avg.cal.ps` should resemble white light source: (Y) / N

Contents of `*rel_std*.ps` files should be smaller than 0.01 (pixel 300 -- 800) for all channels. (Y) / N

If not, value is: _____

Add postscript images to logbook, done (Y) / N

Print logfiles `lpr -P<printer> *.log`
Add logfiles to logbook, done (Y) / N

Radiance processing

Run radiance `idl do_radiance` — In IDL window

Check radiance `ls -l * | more` — In DATA-DIR window

Size of file `<D>.du*.avg.cal.p1.cal` 145.998 — should be approx 150Kb

Size of file
`<D>.du*.avg.cal.p2.cal` 145.998

Check radiance visually

```
lpr -P<printer>
*.p[12].*.cal.ps
```

Value of P1 and P2 file resemble white light source? (Y) / N

Add postscript images to logbook, done (Y) / N

Print logfiles

```
lpr -P<printer>
*.p[12].cal.log
```

Add logfiles to logbook, done (Y) / N

Back up

Create 3 sets of backup CDs of directory <DIR-NAME> (One CD has a capacity of 600 Mbytes, the UNIX command `/usr/bin/du -k .` gives the number of kilo bytes in the current directory).

See analysis sheet BackUp

Name of backup CDs 020898 C

Sign:

Name _____

Date and time _____

Signature _____

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Wendell Gnad 02-03-98	

Backup data	Let <D> be the directory you want to backup.
	`cd <D>`
	`mk_filetr`
	`ls -l | more`
	Are the files l_names and s_names present?
		Y / N	

	If not, are you sure that the function `mk_filetr` executed?		
	`s_names` ls -l more All file names of the form `f<digit>`?	Y ? N	

	`lpr -P<printer>`
	`s_names l_names`
	Add output to log book, done?
		Y / N	

	Via ftp on CD-writer PC: copy files in directory <D> (including s_names and s_names) to PC (On PC maintain directory structure of DATA-DIR).	files in directory on PC	
Backup CORR directory	Do always Let <D> be the directory `~/DATA-DIR/CORR`		
	Via ftp on CD-writer PC: copy files in directory <D> to PC (On PC maintain directory structure of DATA-DIR). So, you write the whole contents of the `DATA-DIR/CORR` directory.	files in directory on PC	
Backup:	Write 3CDs (Follow JGS' Gear instructions), Done?	Y / N	
Back up On MOD:	Copy (via FTP) data from SUN named `scia6` to SUN named `tpdezo`.		

Instructions printed in machineroom

Copy to MOD (Follow instructions in file `/home/drz/DOC/MOD*`) Note, normally, you don't have to mount the MOD. Update

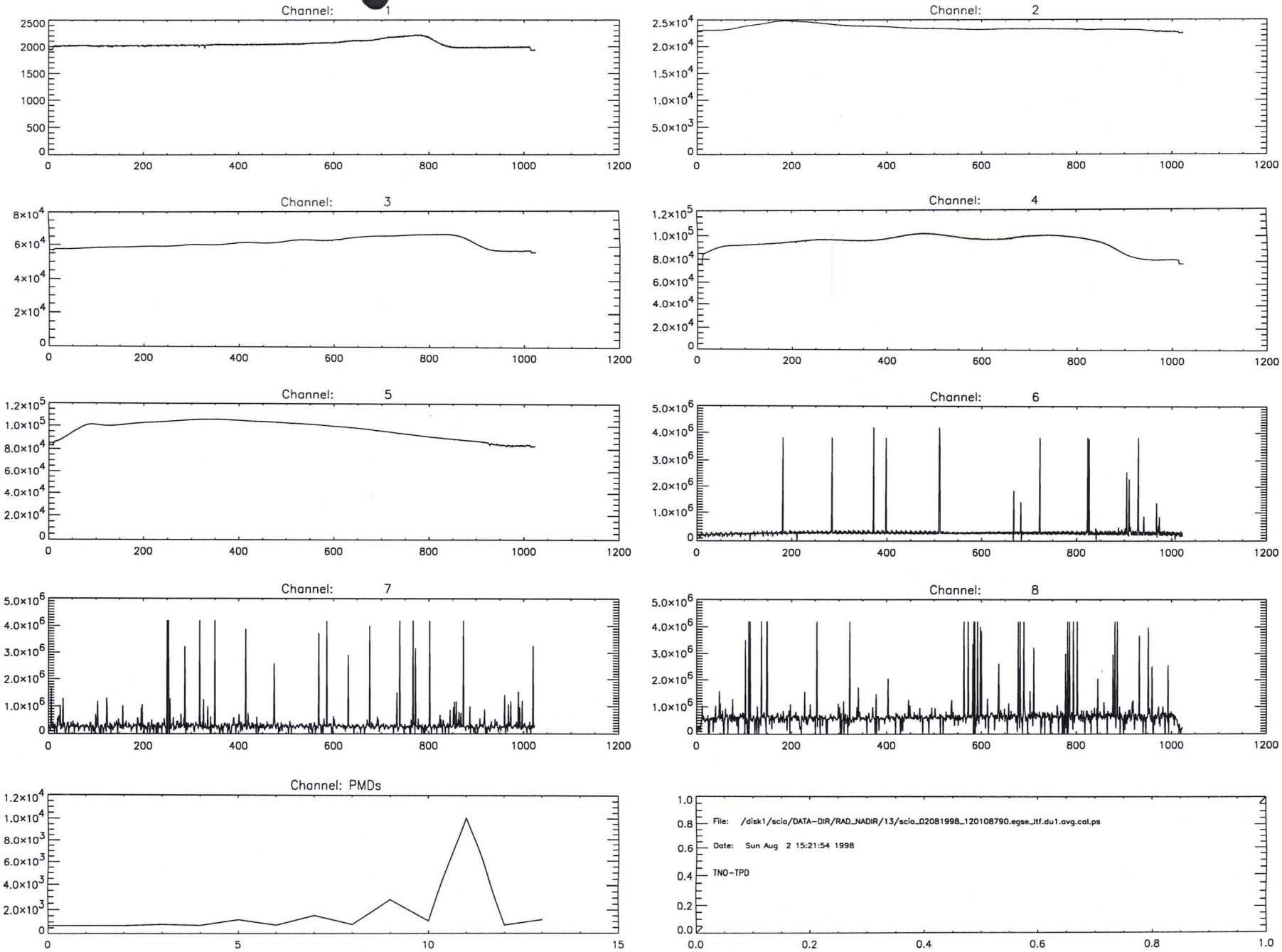
Copy contents of one CD (or via ftp) on the two other SUN workstations that are used for offline analysis, Done? Y / N

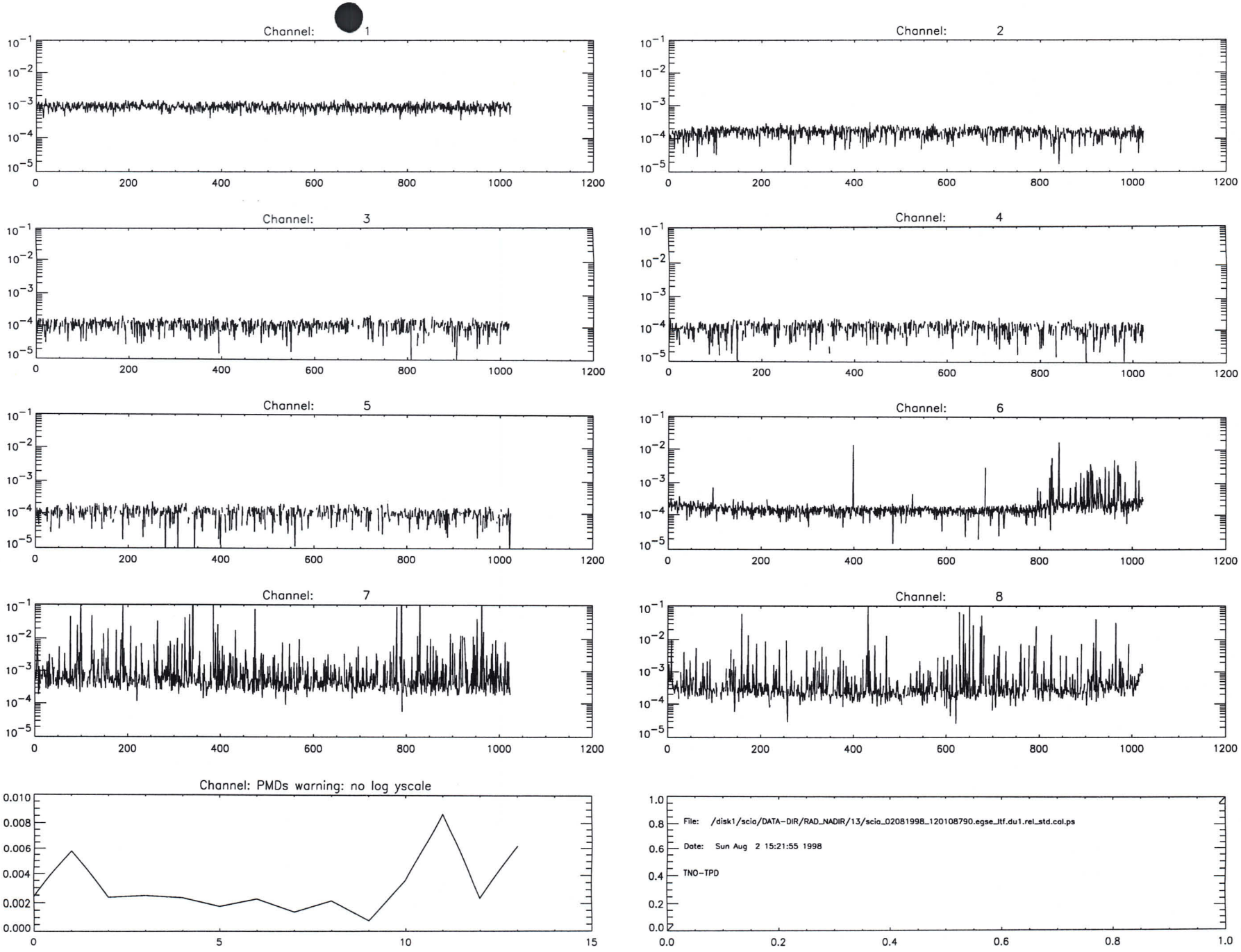
Sign:

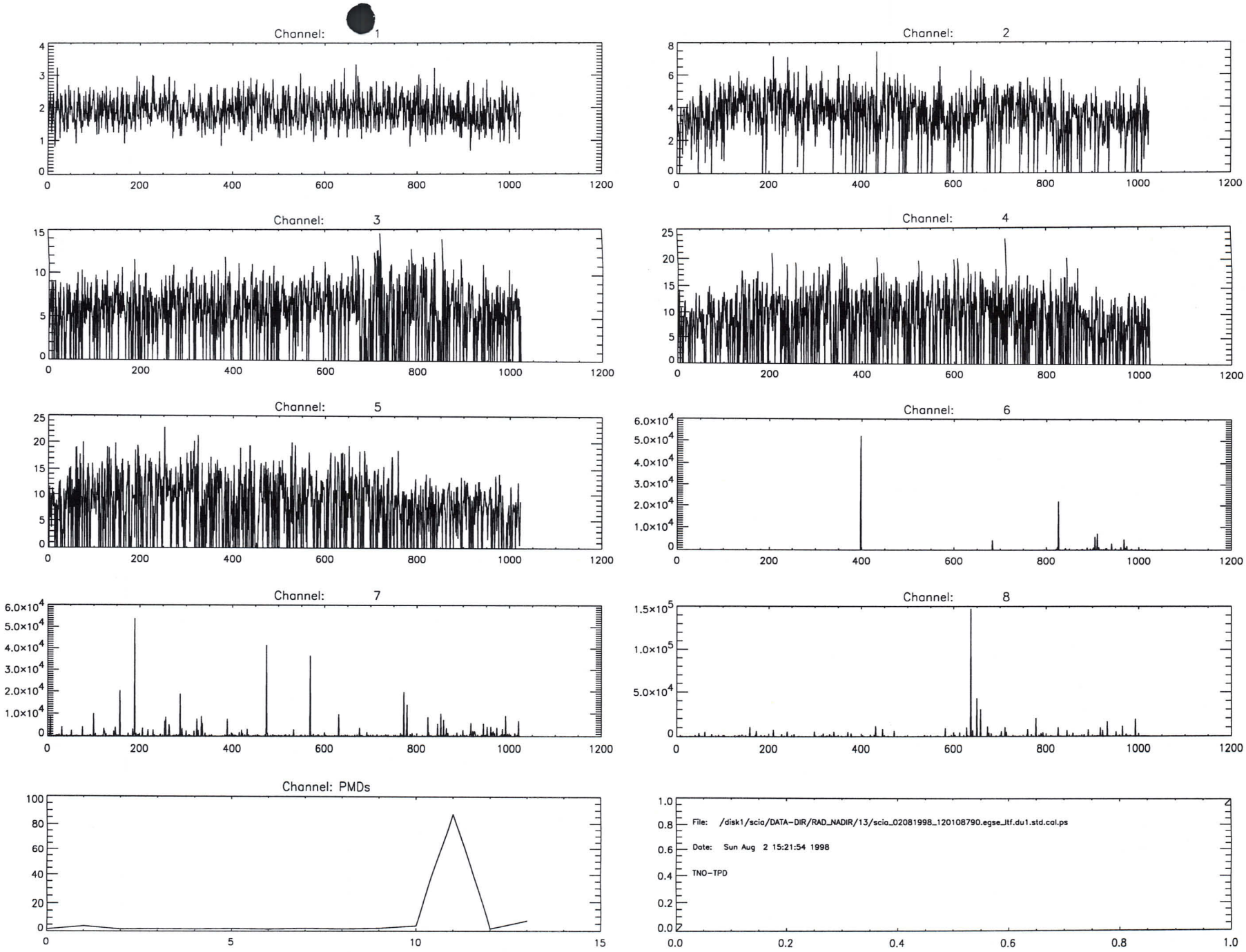
Name _____

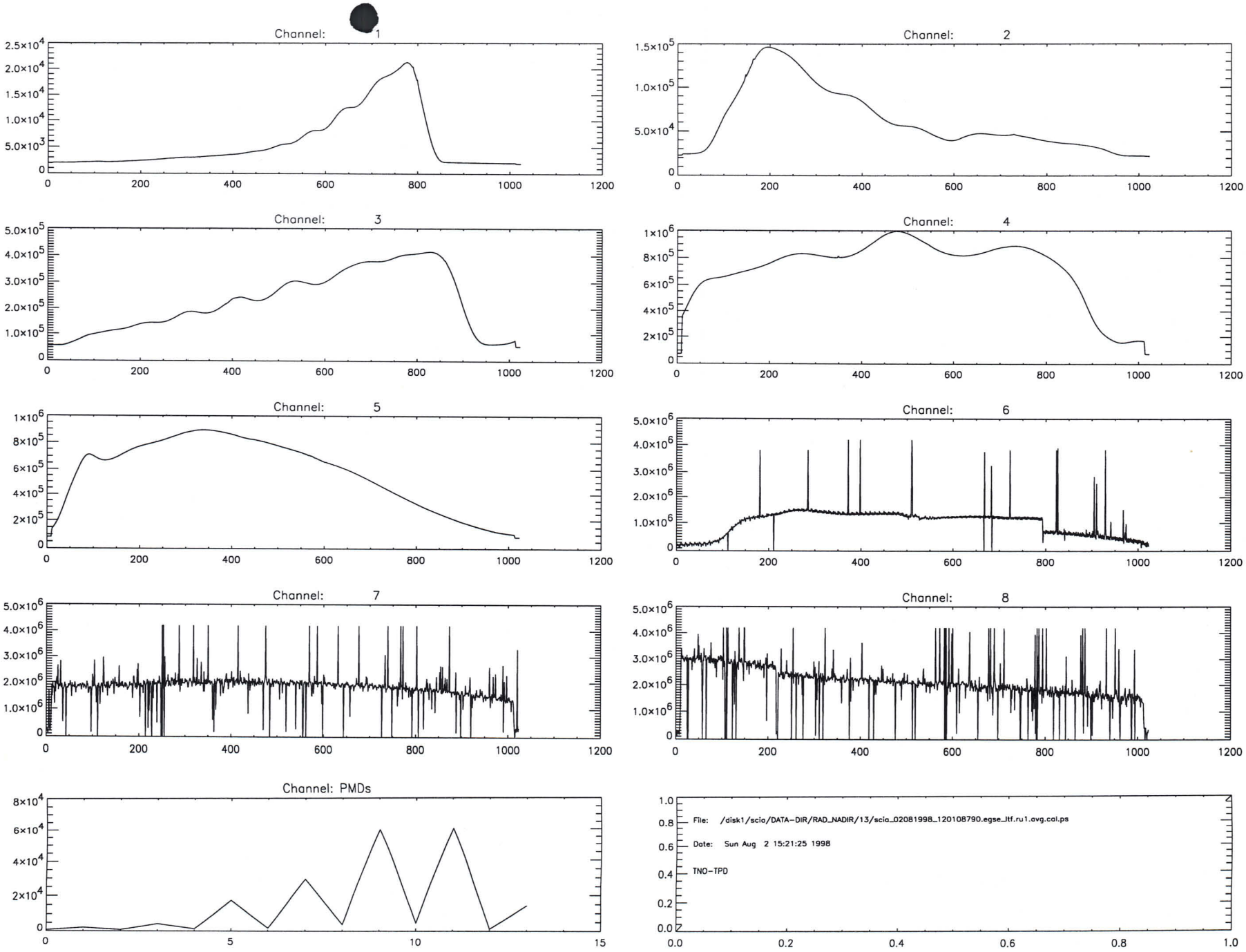
Date and time _____

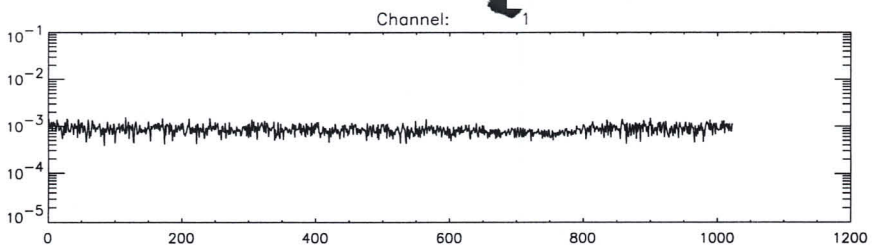
Signature _____

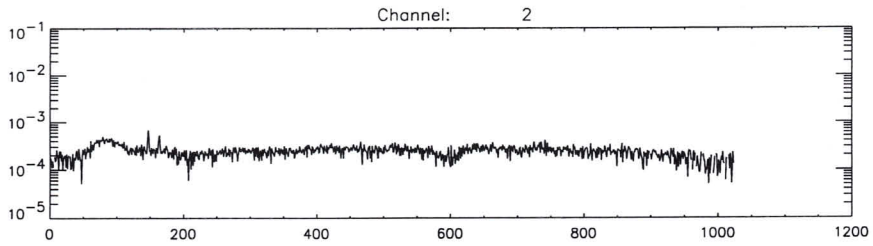

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_NADIR/13/scia_02081998_120108790.egse_itf.du1.avg.cal.ps
Date: Sun Aug 2 15:21:54 1998
TNO-TPD

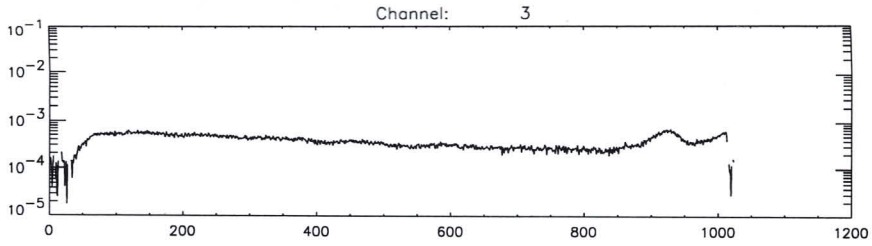

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs warning: no log yscale
File: /disk1/scia/DATA-DIR/RAD_NADIR/13/scia_02081998_120108790.egse_ltf.du1.rel_std.cal.ps
Date: Sun Aug 2 15:21:55 1998
TNO-TPD

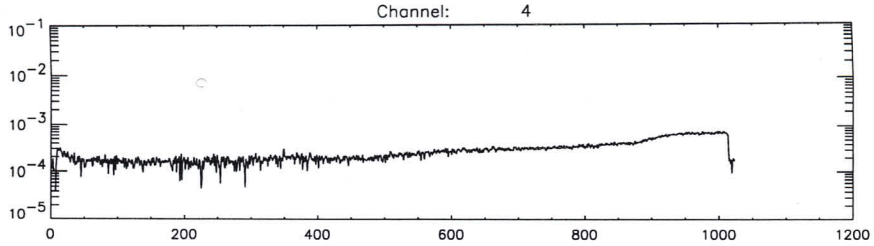

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_NADIR/13/scia_02081998_120108790.egse_ltf.du1.std.cal.ps
Date: Sun Aug 2 15:21:54 1998
TNO-TPD

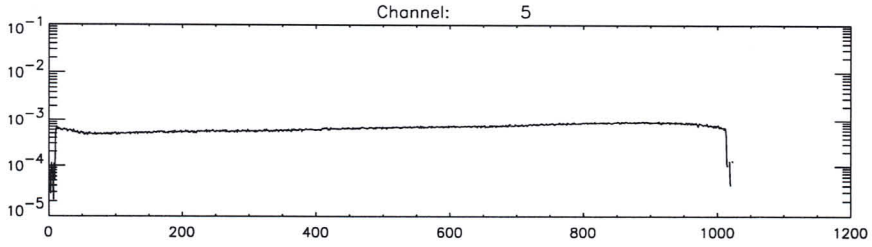

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_NADIR/13/scia_02081998_120108790.egse_ltf.ru1.avg.cal.ps
Date: Sun Aug 2 15:21:25 1998
TNO-TPD

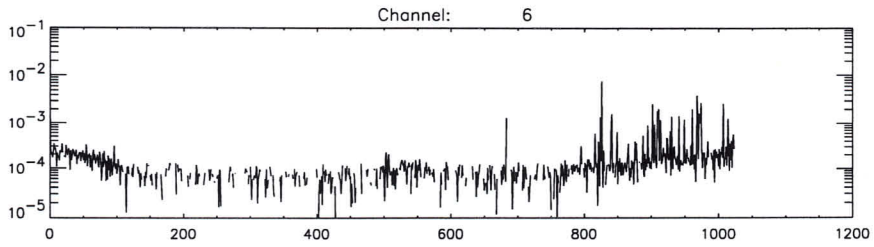

Channel: 1

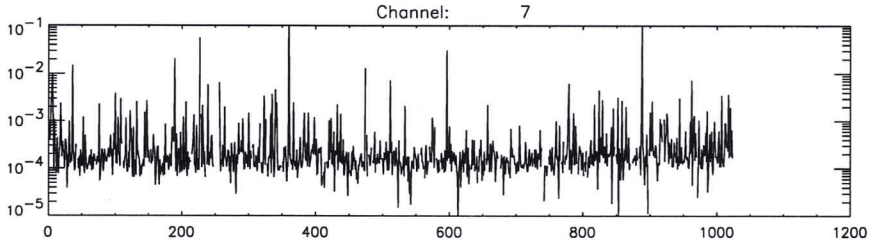

Channel: 2

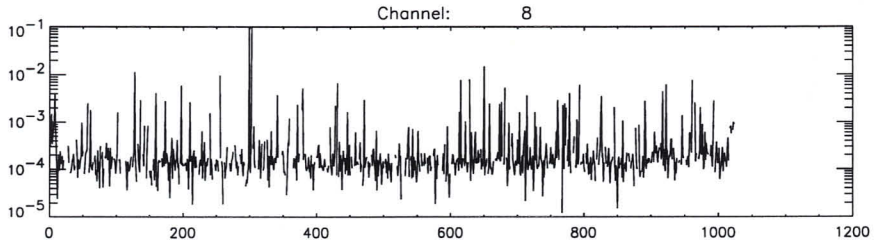

Channel: 3

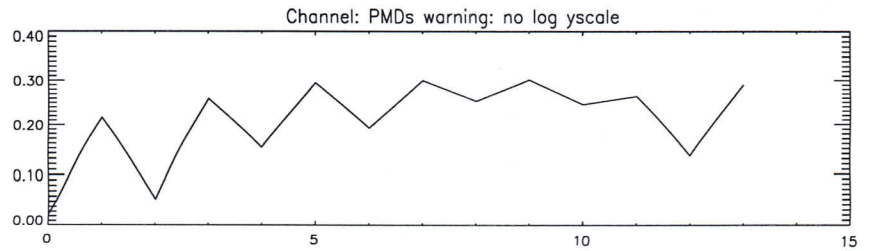

Channel: 4

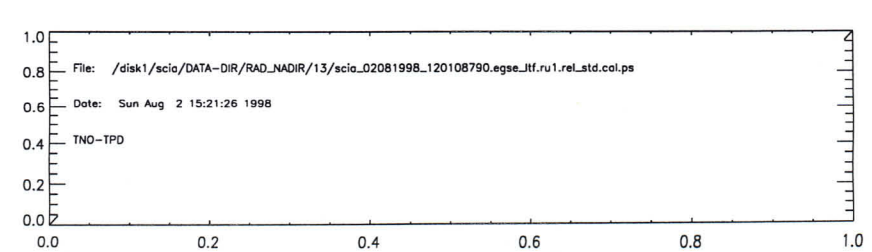

Channel: 5

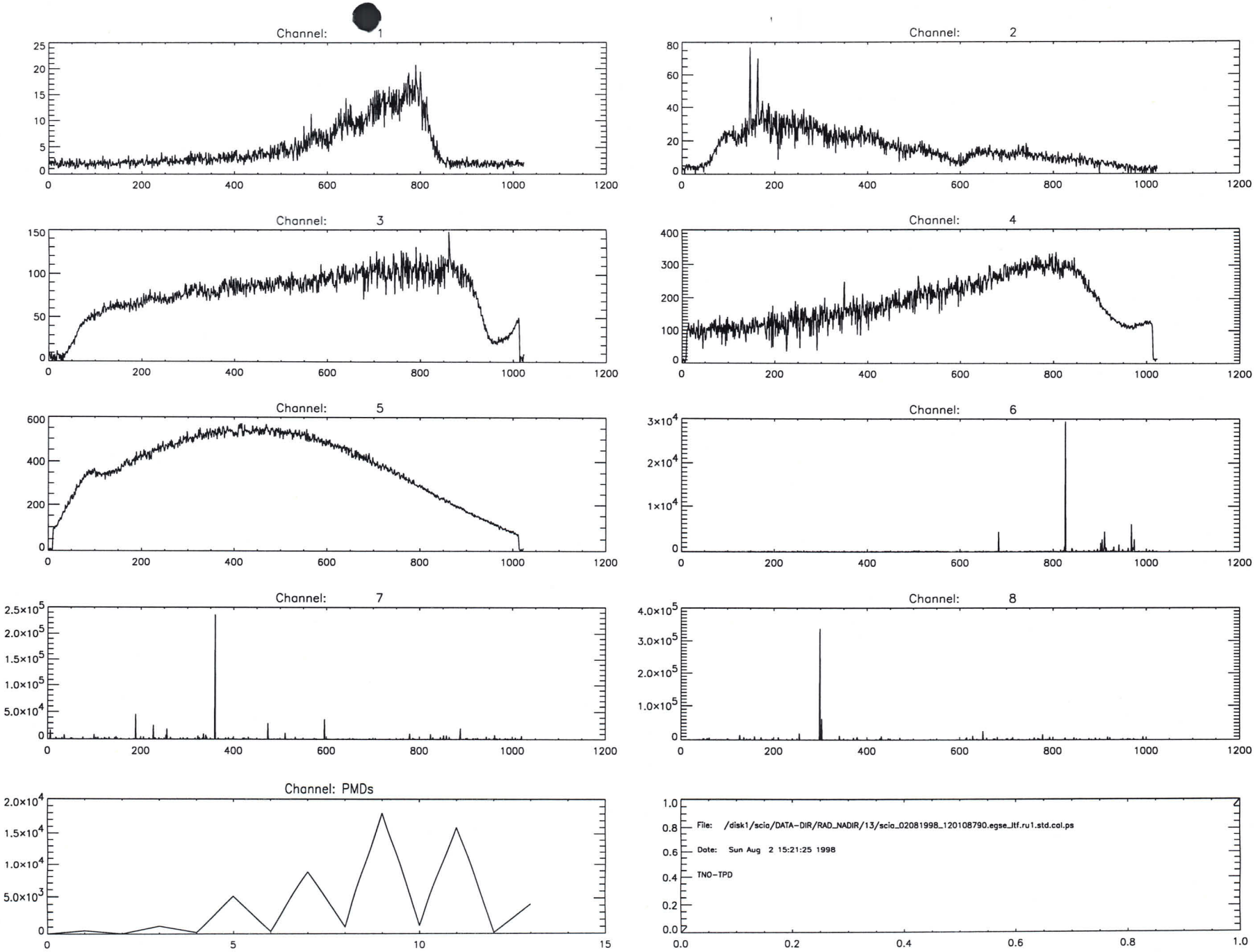

Channel: 6


Channel: 7


Channel: 8

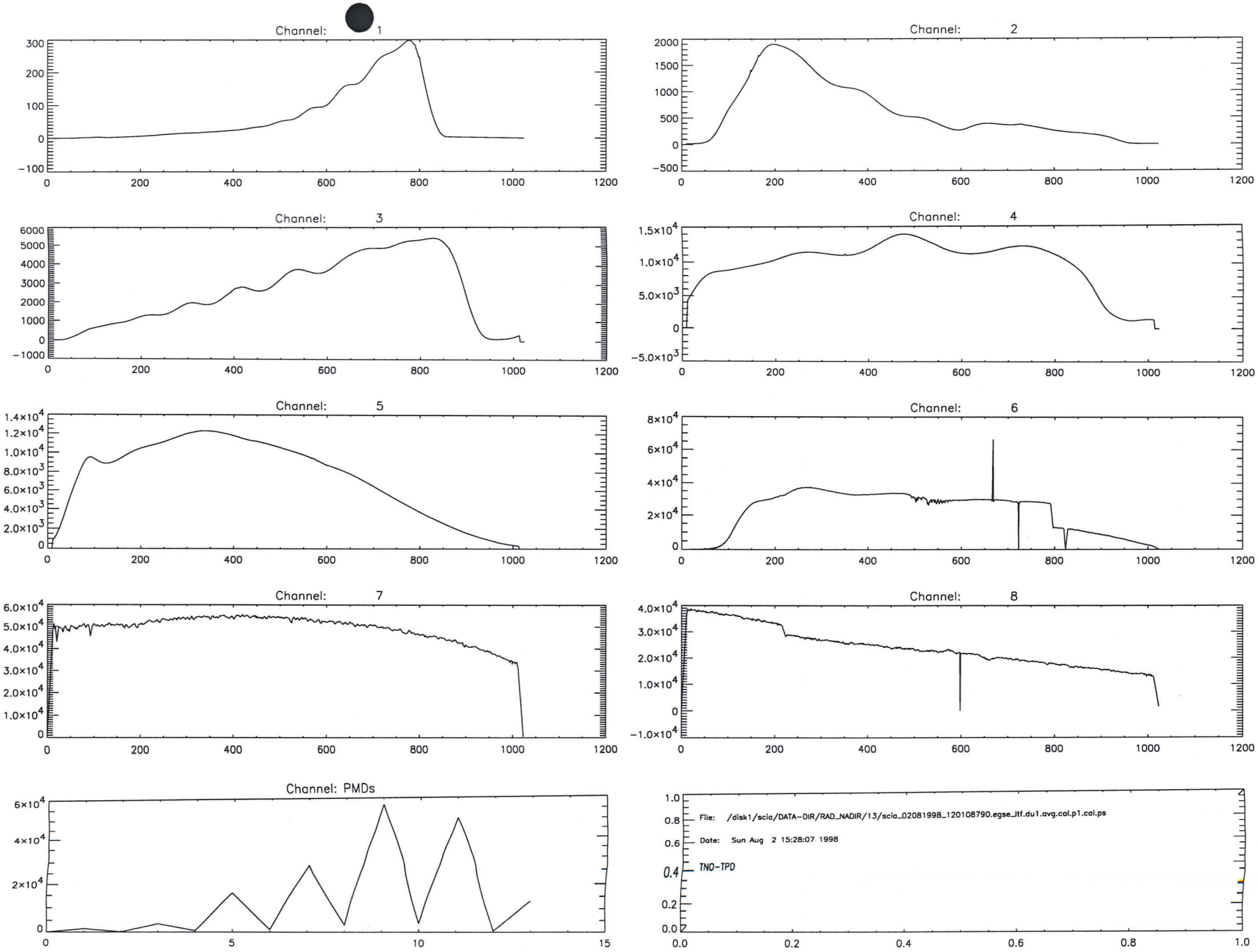

Channel: PMDs warning: no log yscale

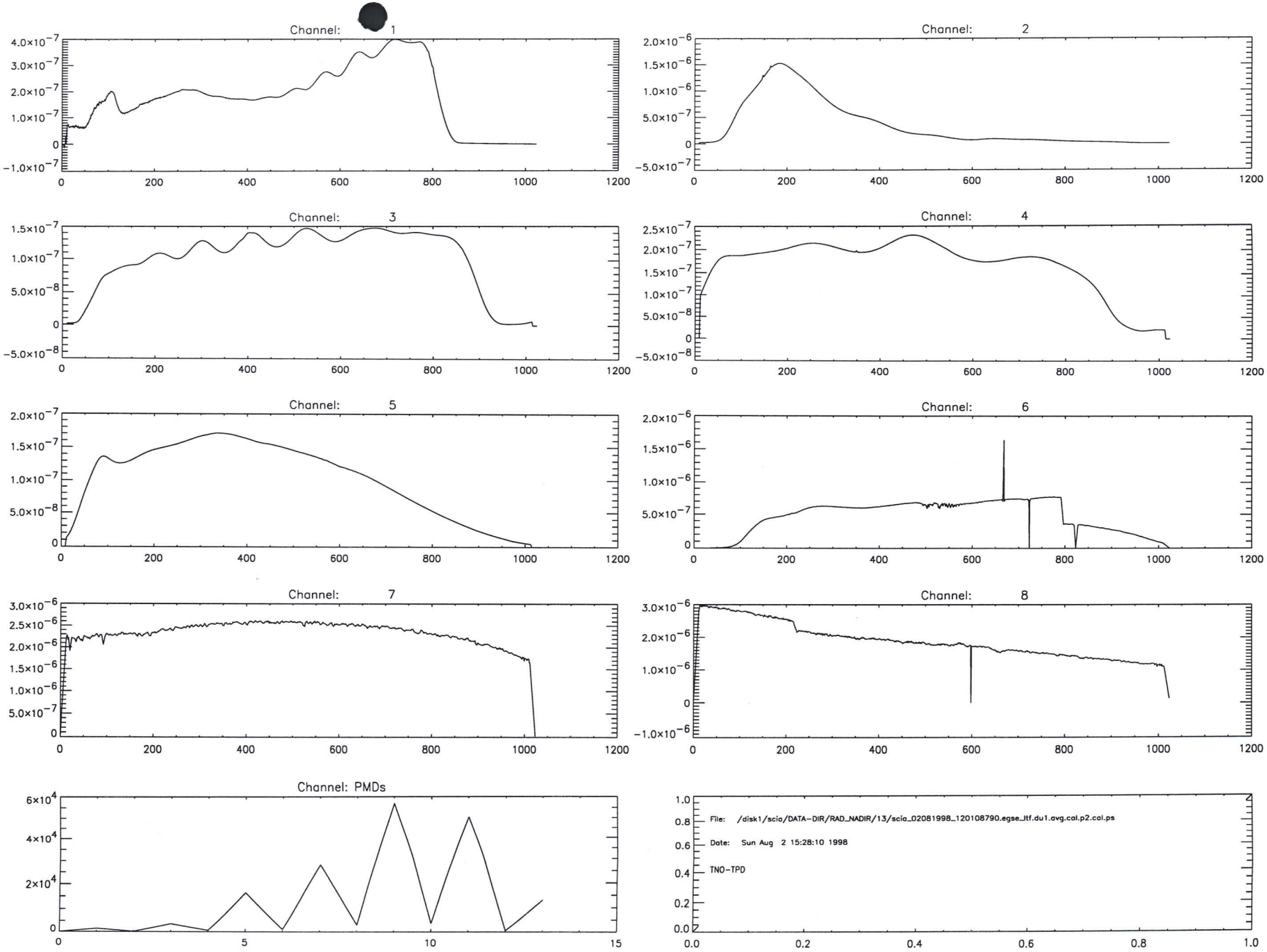

File: /disk1/scia/DATA-DIR/RAD_NADIR/13/scia_02081998_120108790.egse_ltf.ru1.rel_std.cal.ps
Date: Sun Aug 2 15:21:26 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_NADIR/13/scia_02081998_120108790.egse_ltf.ru1.std.cal.ps
Date: Sun Aug 2 15:21:25 1998
TNO-TPD

```
time       = Sun Aug  2 15:21:55 1998
batch      = du1
Start TOD = Sun 02-Aug-98 12:17:57
End   TOD = Sun 02-Aug-98 12:29:33
Processing= computation of average, standard dev. and rel.standard dev.
```

```
time       = Sun Aug  2 15:21:26 1998
batch      = ru1
Start TOD = Sun 02-Aug-98 12:01:35
End   TOD = Sun 02-Aug-98 12:17:57
Processing= computation of average, standard dev. and rel.standard dev.
```


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_NADIR/13/scia_02081998_120108790.egse_ltf.du1.avg.cal.p1.cal.ps
Date: Sun Aug 2 15:28:07 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_NADIR/13/scia_02081998_120108790.egse_ltf.du1.avg.cal.p2.cal.ps
Date: Sun Aug 2 15:28:10 1998
TNO-TPD

Version: 0.1
Input files:

/disk1/scia/DATA-DIR/RAD_NADIR/13/scia_02081998_120108790.egse_ltf.du1.avg.cal
 and

/disk1/scia/DATA-DIR/RAD_NADIR/13/scia_02081998_120108790.egse_ltf.ru1.avg.cal
Action:
Radiance calibration: No correction bsdf, transmission and e_cal
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/latest/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/latest/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/latest/stray.da
Processing time: Sun Aug 2 15:28:06 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_NADIR/13/scia_02081998_120108790.egse_ltf.du1.avg.cal
Ambient files:
Ambient Correction file versions ac_ucp = # VERSION 0.0
ac_ucs = #VERSION 0.0
ala4lp = #VERSION 0.0
ala4ls = #VERSION 0.0
ala4lx = #VERSION 0.0
alamlp = #VERSION 0.0
alamls = #VERSION 0.0
alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
alaulp = #VERSION 0.0
alauls = #VERSION 0.0
anapnp = #VERSION 0.0
anapnx = #VERSION 0.0
anaunp = #VERSION 0.0 ASAP data
anauns = #VERSION 0.0 ASAP data
bsdf = #Date: 15/06/98 NOTE: This is preliminary data! The final keydata must
optec_window = #VERSION 0.0
reflectance = #VERSION 0.0

Version: 0.1
Input files:

/disk1/scia/DATA-DIR/RAD_NADIR/13/scia_02081998_120108790.egse_ltf.du1.avg.cal
 and

/disk1/scia/DATA-DIR/RAD_NADIR/13/scia_02081998_120108790.egse_ltf.ru1.avg.cal
Action:
Radiance calibration + divided by calibrated irradiance + divded by bsdf + div
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/latest/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/latest/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/latest/stray.da
Processing time: Sun Aug 2 15:28:10 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_NADIR/13/scia_02081998_120108790.egse_ltf.du1.avg.cal
Ambient files:
Ambient Correction file versions ac_ucp = # VERSION 0.0
ac_ucs = #VERSION 0.0
ala4lp = #VERSION 0.0
ala4ls = #VERSION 0.0
a 4lx = #VERSION 0.0
alamlp = #VERSION 0.0
alamls = #VERSION 0.0
alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
alaulp = #VERSION 0.0
alauls = #VERSION 0.0
anapnp = #VERSION 0.0
anapnx = #VERSION 0.0
anaunp = #VERSION 0.0 ASAP data
anauns = #VERSION 0.0 ASAP data
bsdf = #Date: 15/06/98 NOTE: This is preliminary data! The final keydata must
optec_window = #VERSION 0.0
reflectance = #VERSION 0.0

Rad_NADIR

13/12 → in dir Ratio 13.12

13/10 → in dir Ratio 13.10

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Wendell Lynch 02 08 1998	
	What's the name of the (main) data input file that you want to store in the SOC directory?	_____	(A)
	Setup a three-window configuration on your SUN.		See course descr.
Do ratio	`idl do_ratio` Let <D1> be the first selected dark file name		In IDL window
	Full path name of <D1> ls -l <D1>.div.cal	SCIA-02081998-120108790.eqse.HF.dwn.avg.cal.div.cal	In DATA window
	size of <D1>.div.cal	145.998	Approx. 140 kB
	lpr -P<printer> <D1>.div.cal.ps Add postscript image to logbook, Done?	(Y) / N	In DATA Window
Back up	Create 3 sets of backup CDs of directory `~/DATA-DIR/START-OF-CALIBRATION` (One CD has a capacity of 600 Mbytes, the UNIX command `/usr/bin/du -k .` gives the number of kilo bytes in the current directory). Name of backup CDs	_____	See analysis sheet BackUp
Sign:	Name Date and time Signature	W. L. 02 08 1998 [signature]	

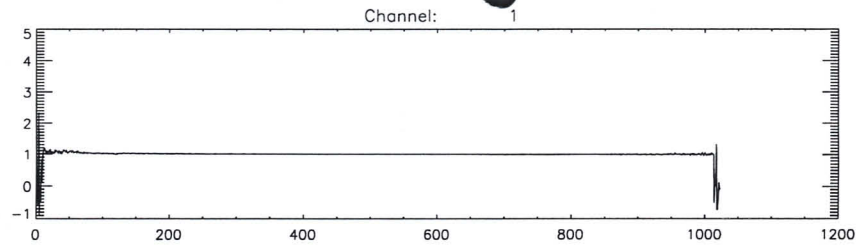
note that the do_ratio procedure asks:

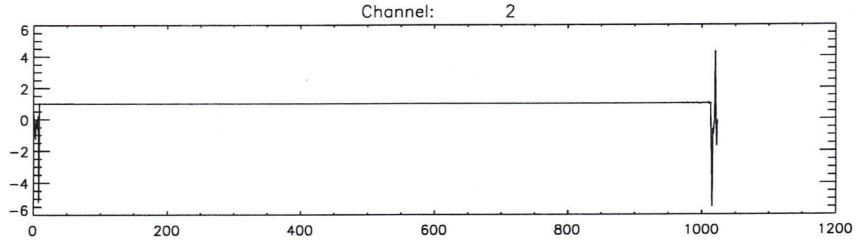
1/ ~~one~~ a dark file

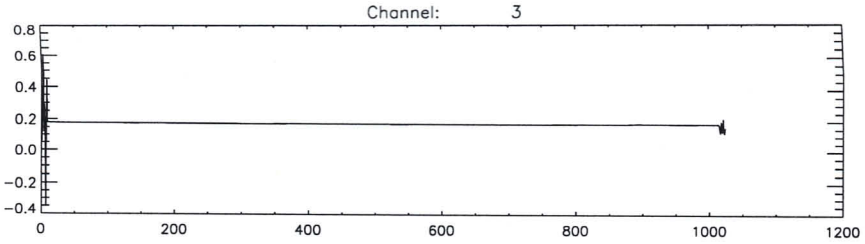
2/ a corresponding light file

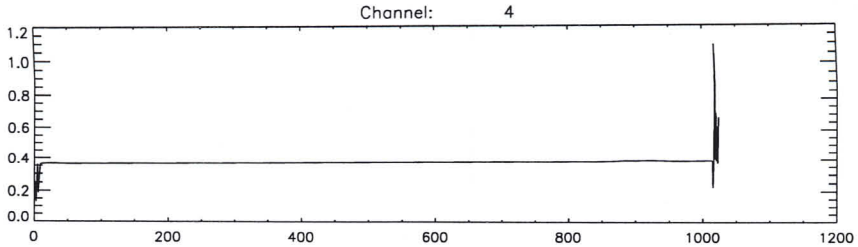
3/ a second dark file

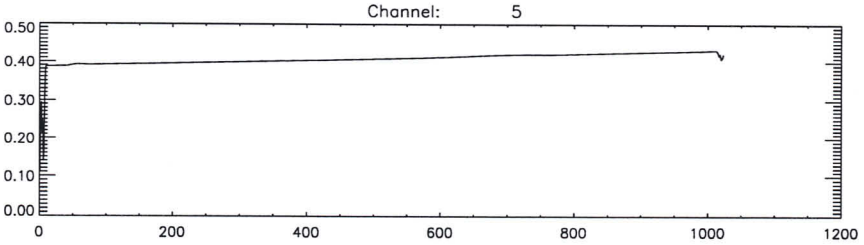
4/ a corresponding light file.

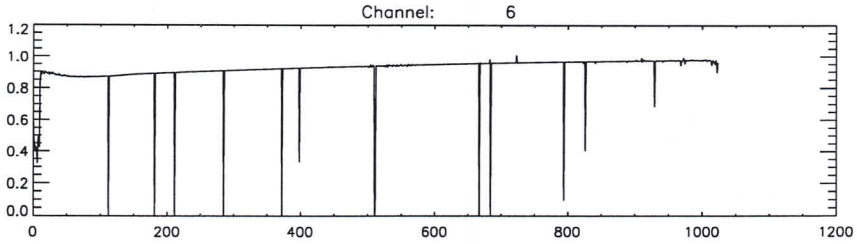

Channel: 1

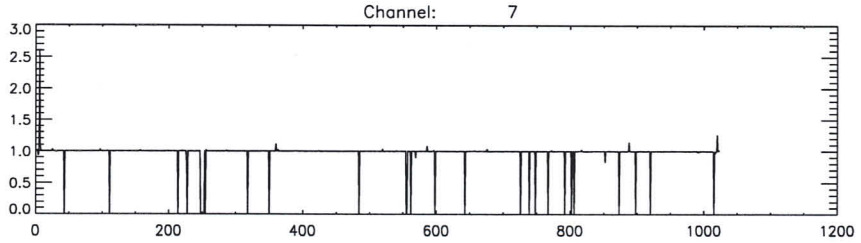

Channel: 2

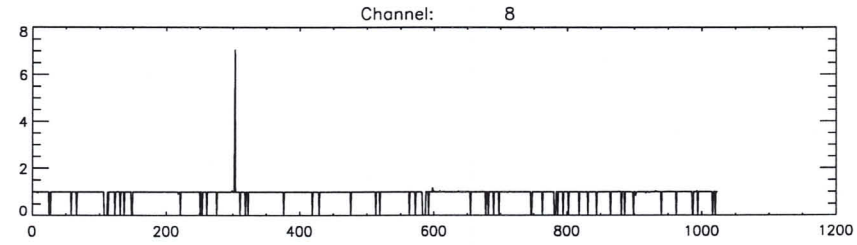

Channel: 3

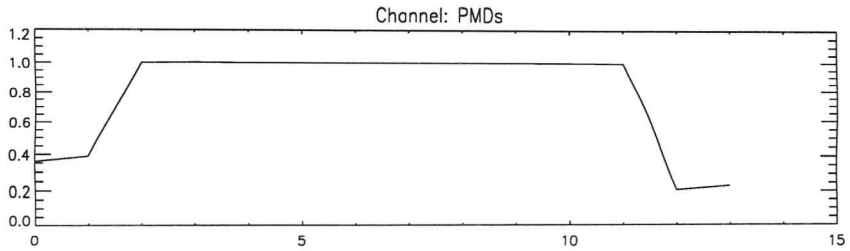

Channel: 4

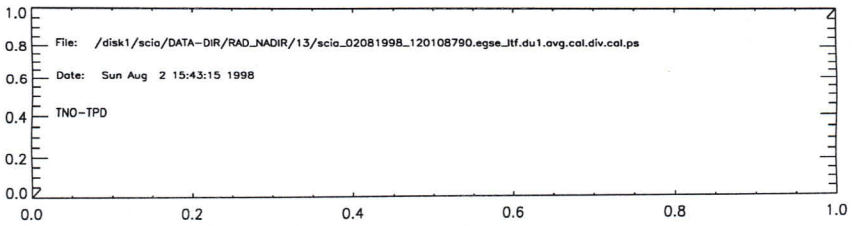

Channel: 5

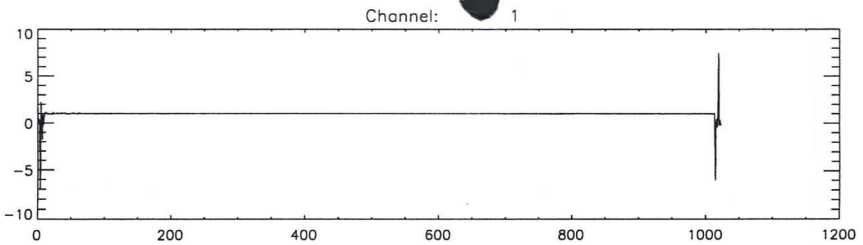

Channel: 6

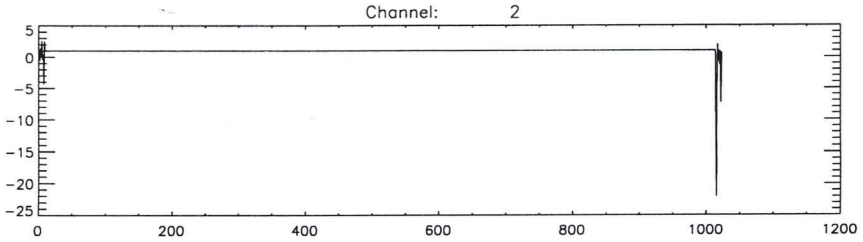

Channel: 7

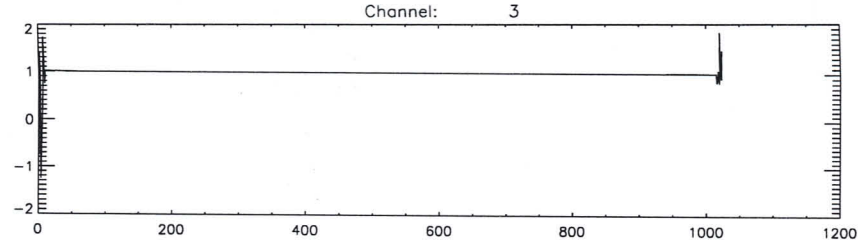

Channel: 8

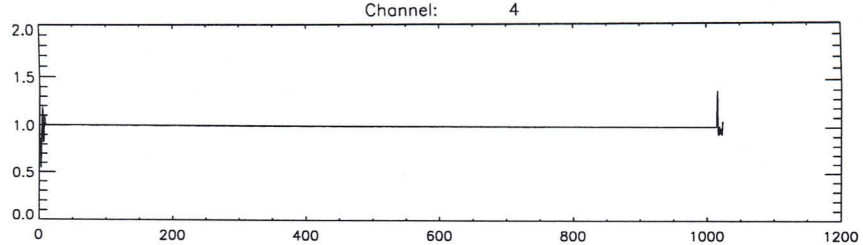

Channel: PMDs

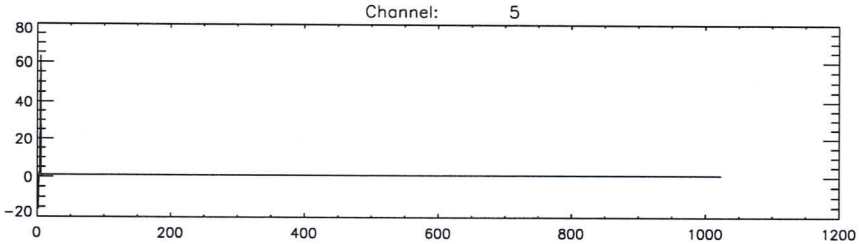

File: /disk1/scia/DATA-DIR/RAD_NADIR/13/scia_02081998_120108790.egse_itf.du1.avg.cal.div.cal.ps
Date: Sun Aug 2 15:43:15 1998
TNO-TPD

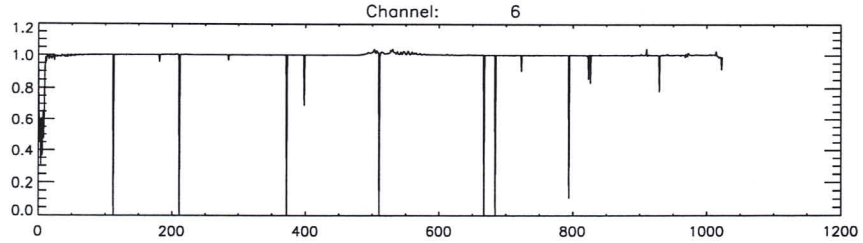

Channel: 1

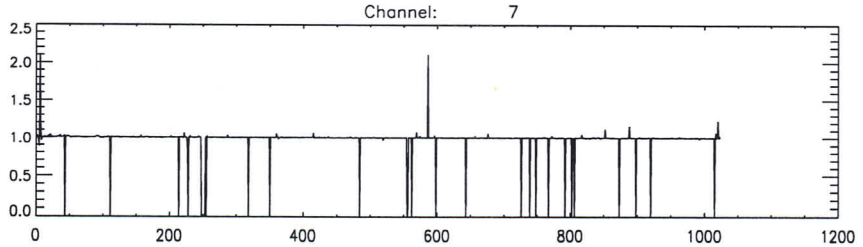

Channel: 2

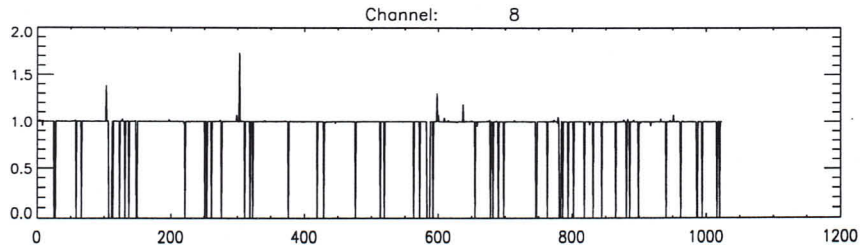

Channel: 3

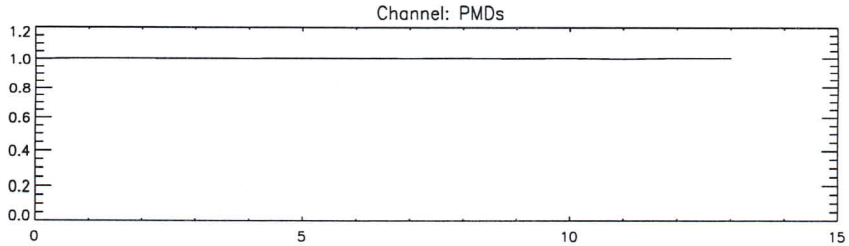

Channel: 4

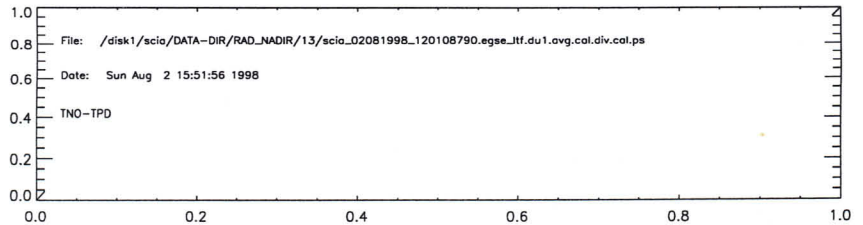

Channel: 5


Channel: 6

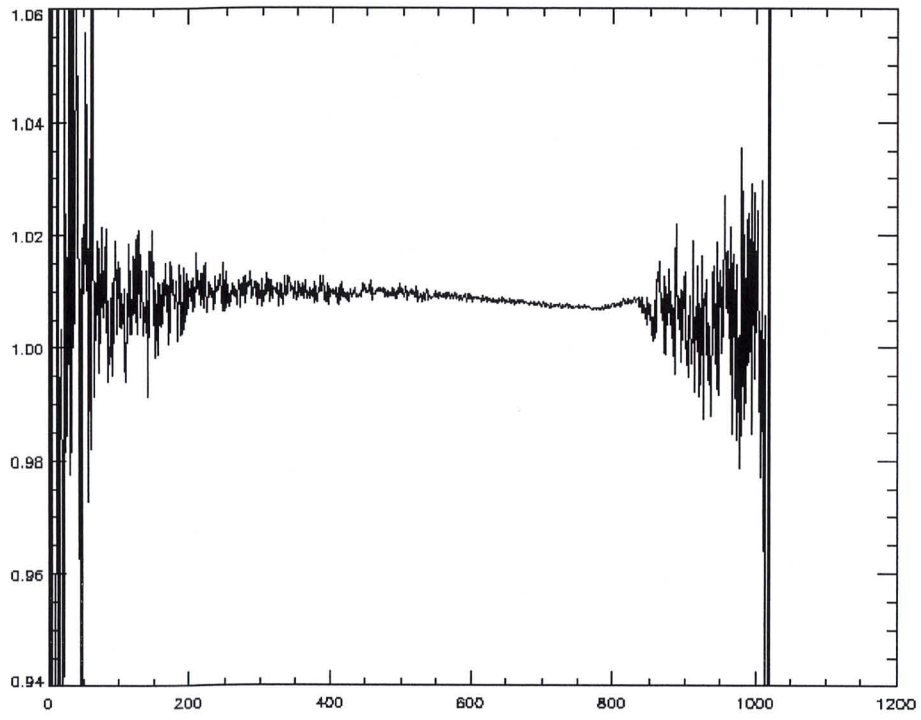

Channel: 7


Channel: 8


Channel: PMDs

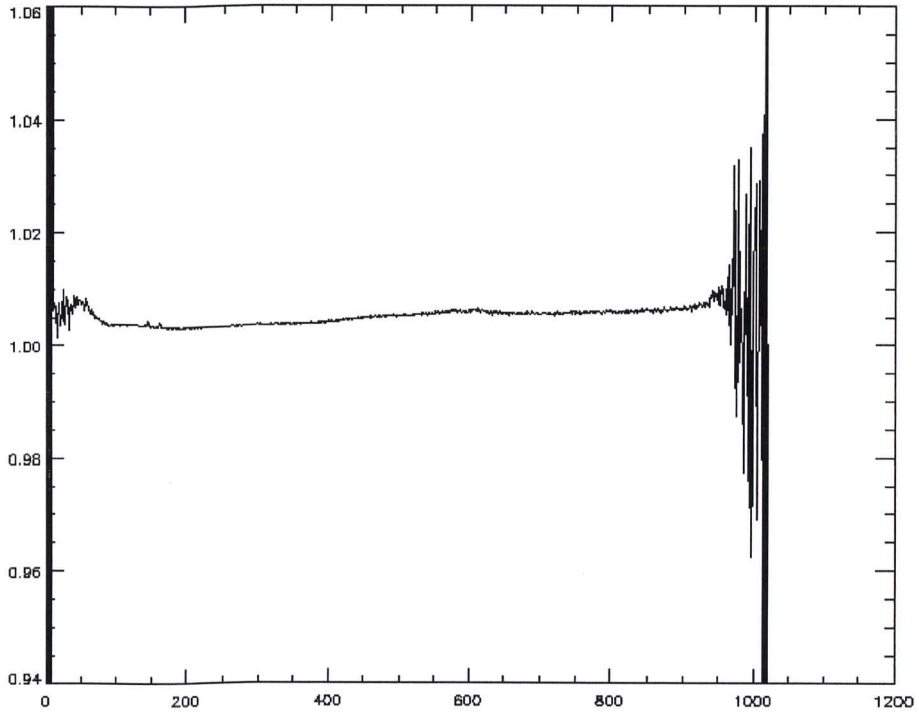

File: /disk1/scia/DATA-DIR/RAD_NADIR/13/scia_02081998_120108790.egse_itf.du1.avg.cal.div.cal.ps
Date: Sun Aug 2 15:51:56 1998
TNO-TPD

Rad_Nadir with ND filter at MINIMUM +0,5M



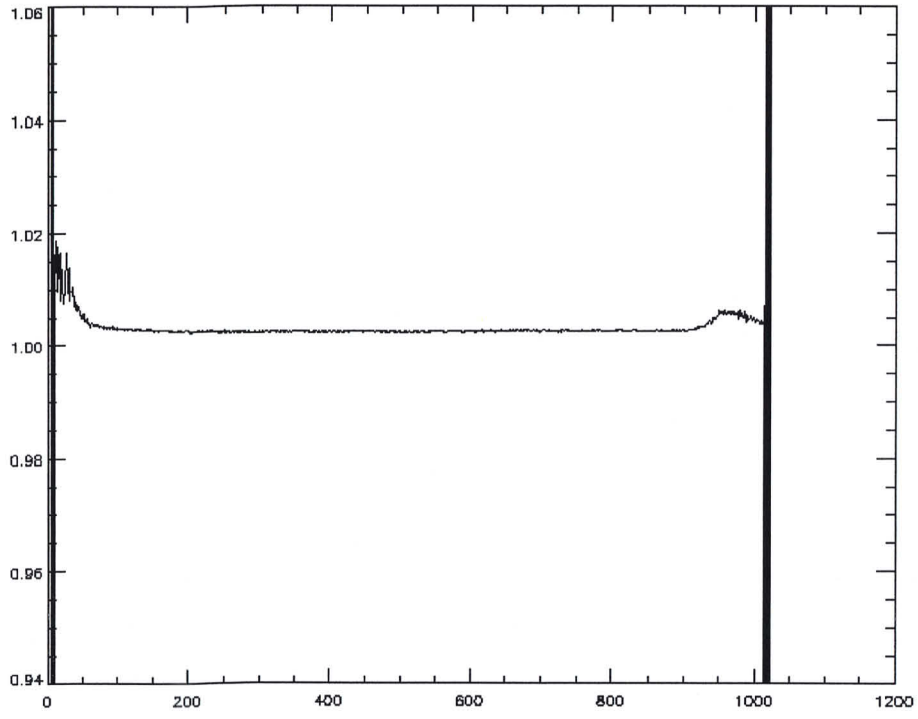
Channel 1

Rad_ Nadir +ND filter at minimum +0,5M



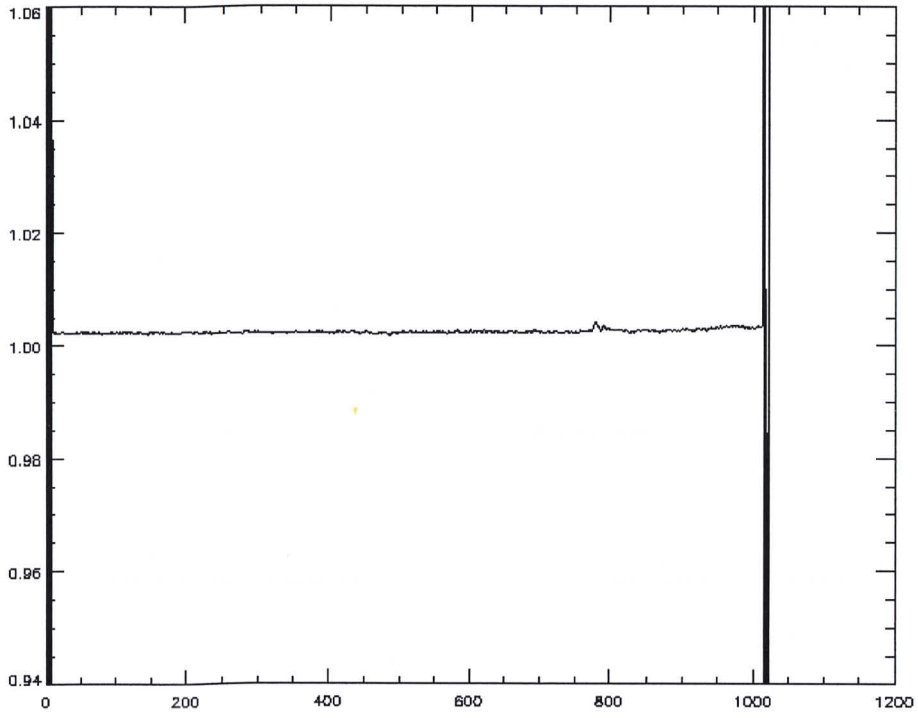
Channel 2

Rad - Nadir + ND filter at minimum + 0,5 M



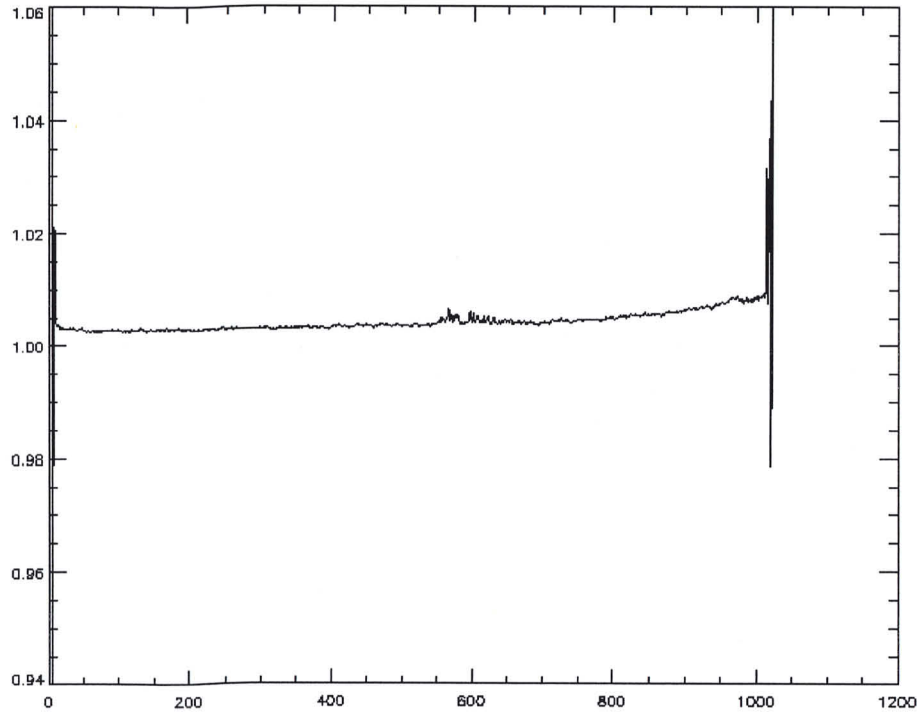
Channel 3

Rad_Nadir + ND filter at minimum + 0,5 m



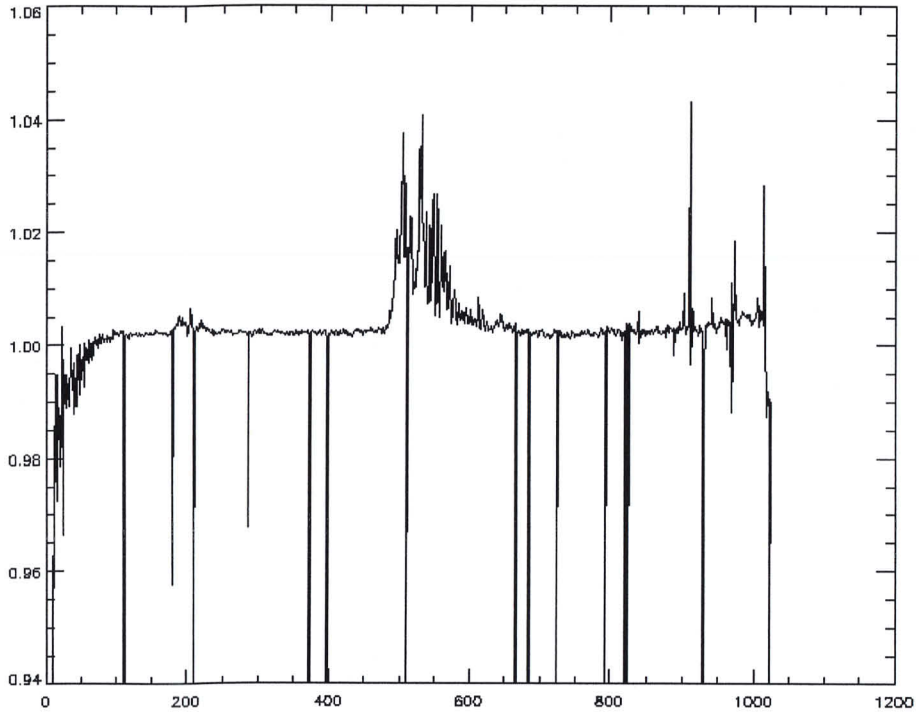
Channel 4

Rad_Nadir + ND filter at ~~0,5~~ MINIMUM + 0,5M



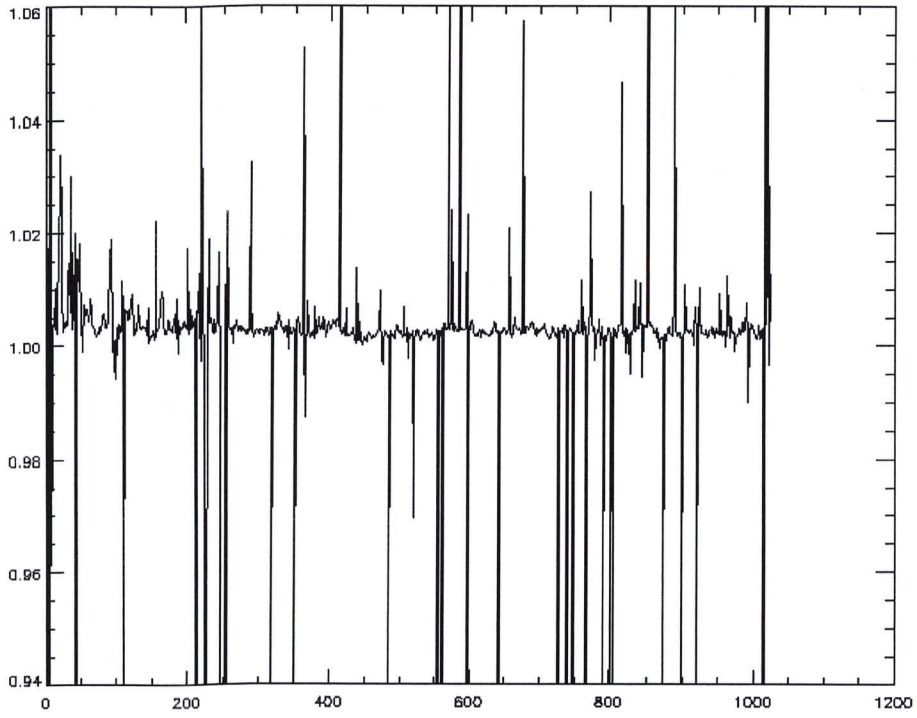
Channel 5

Rad_Nadir +ND filter at minimum +0,5 M



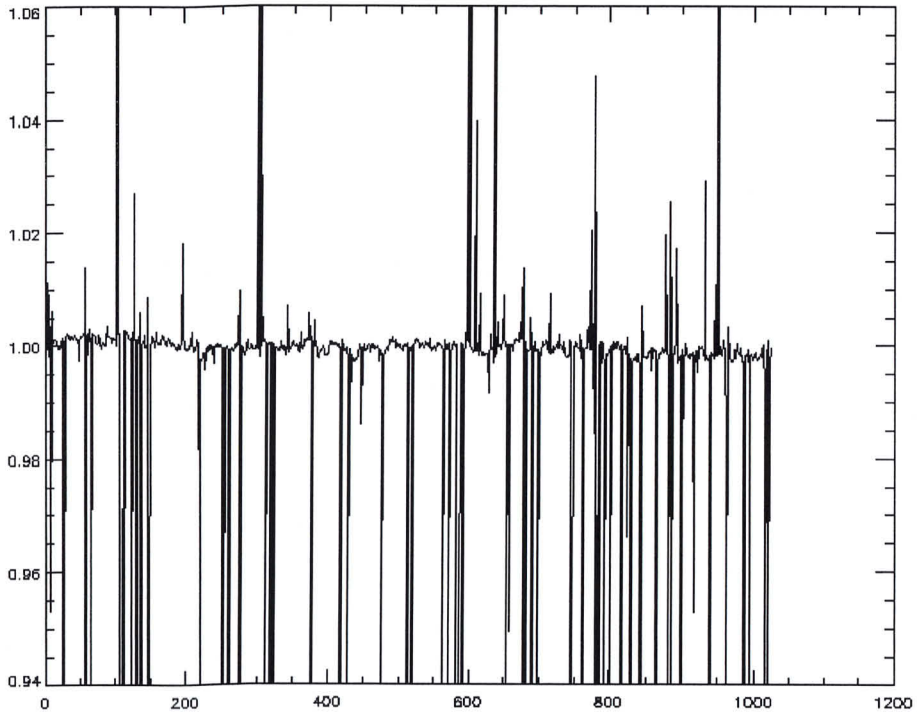
Channel 6

Rad_Nadir + ND filter at minimum + 0,5 M



Channel 7

Rad_Nadir + ND-filter at minimum + 0,5 m



Channel 8

```
#! /bin/sh
mv f0 214y1157.doc
mv f1 214y1230.xls
mv f2 WS_FTP.LOG
mv f3 dapbchklog
mv f4 dapbseqlog
mv f5 egse.inf
mv f6 gemsmpara.dat
mv f7 hk_ccb.dat
mv f8 scia_02081998_120108790.dat
mv f9 scia_02081998_120108790.egse_ltf
mv f10 scia_02081998_120108790.egse_ltf.du1.avg.cal
mv f11 scia_02081998_120108790.egse_ltf.du1.avg.cal.p1.cal
mv f12 scia_02081998_120108790.egse_ltf.du1.avg.cal.p1.cal.log
mv f13 scia_02081998_120108790.egse_ltf.du1.avg.cal.p1.cal.ps
mv f14 scia_02081998_120108790.egse_ltf.du1.avg.cal.p1.cal.ps.log
mv f15 scia_02081998_120108790.egse_ltf.du1.avg.cal.p2.cal
mv f16 scia_02081998_120108790.egse_ltf.du1.avg.cal.p2.cal.keydata
mv f17 scia_02081998_120108790.egse_ltf.du1.avg.cal.p2.cal.log
mv f18 scia_02081998_120108790.egse_ltf.du1.avg.cal.p2.cal.ps
mv f19 scia_02081998_120108790.egse_ltf.du1.avg.cal.p2.cal.ps.log
mv f20 scia_02081998_120108790.egse_ltf.du1.avg.cal.ps
r  f21 scia_02081998_120108790.egse_ltf.du1.log
mv f22 scia_02081998_120108790.egse_ltf.du1.rel_std.cal
mv f23 scia_02081998_120108790.egse_ltf.du1.rel_std.cal.ps
mv f24 scia_02081998_120108790.egse_ltf.du1.std.cal
mv f25 scia_02081998_120108790.egse_ltf.du1.std.cal.ps
mv f26 scia_02081998_120108790.egse_ltf.ru1.avg.cal
mv f27 scia_02081998_120108790.egse_ltf.ru1.avg.cal.ps
mv f28 scia_02081998_120108790.egse_ltf.ru1.log
mv f29 scia_02081998_120108790.egse_ltf.ru1.rel_std.cal
mv f30 scia_02081998_120108790.egse_ltf.ru1.rel_std.cal.ps
mv f31 scia_02081998_120108790.egse_ltf.ru1.std.cal
mv f32 scia_02081998_120108790.egse_ltf.ru1.std.cal.ps
```

```
#! /bin/sh
mv 214y1157.doc f0
mv 214y1230.xls f1
mv WS_FTP.LOG f2
mv dapbchklog f3
mv dapbseqlog f4
mv egse.inf f5
mv gemsmpara.dat f6
mv hk_ccb.dat f7
mv scia_02081998_120108790.dat f8
mv scia_02081998_120108790.egse_ltf f9
mv scia_02081998_120108790.egse_ltf.du1.avg.cal f10
mv scia_02081998_120108790.egse_ltf.du1.avg.cal.p1.cal f11
mv scia_02081998_120108790.egse_ltf.du1.avg.cal.p1.cal.log f12
mv scia_02081998_120108790.egse_ltf.du1.avg.cal.p1.cal.ps f13
mv scia_02081998_120108790.egse_ltf.du1.avg.cal.p1.cal.ps.log f14
mv scia_02081998_120108790.egse_ltf.du1.avg.cal.p2.cal f15
mv scia_02081998_120108790.egse_ltf.du1.avg.cal.p2.cal.keydata f16
mv scia_02081998_120108790.egse_ltf.du1.avg.cal.p2.cal.log f17
mv scia_02081998_120108790.egse_ltf.du1.avg.cal.p2.cal.ps f18
mv scia_02081998_120108790.egse_ltf.du1.avg.cal.p2.cal.ps.log f19
mv scia_02081998_120108790.egse_ltf.du1.avg.cal.ps f20
mv scia_02081998_120108790.egse_ltf.du1.log f21
mv scia_02081998_120108790.egse_ltf.du1.rel_std.cal f22
mv scia_02081998_120108790.egse_ltf.du1.rel_std.cal.ps f23
mv scia_02081998_120108790.egse_ltf.du1.std.cal f24
mv scia_02081998_120108790.egse_ltf.du1.std.cal.ps f25
mv scia_02081998_120108790.egse_ltf.ru1.avg.cal f26
mv scia_02081998_120108790.egse_ltf.ru1.avg.cal.ps f27
mv scia_02081998_120108790.egse_ltf.ru1.log f28
mv scia_02081998_120108790.egse_ltf.ru1.rel_std.cal f29
mv scia_02081998_120108790.egse_ltf.ru1.rel_std.cal.ps f30
mv scia_02081998_120108790.egse_ltf.ru1.std.cal f31
mv scia_02081998_120108790.egse_ltf.ru1.std.cal.ps f32
```

```
#! /bin/sh
mv f0 div1.ps
mv f1 div2.ps
mv f2 div3.ps
mv f3 div4.ps
mv f4 div5.ps
mv f5 div6.ps
mv f6 div7.ps
mv f7 div8.ps
mv f8 scia_02081998_120108790.egse_ltf.du1.avg.cal.div.cal
mv f9 scia_02081998_120108790.egse_ltf.du1.avg.cal.div.cal.log
mv f10 scia_02081998_120108790.egse_ltf.du1.avg.cal.div.cal.ps
mv f11 scia_02081998_120108790.egse_ltf.du1.avg.cal.div.cal.ps.log
```

```
#! /bin/sh
mv div1.ps f0
mv div2.ps f1
mv div3.ps f2
mv div4.ps f3
mv div5.ps f4
mv div6.ps f5
mv div7.ps f6
mv div8.ps f7
mv scia_02081998_120108790.egse_ltf.du1.avg.cal.div.cal f8
mv scia_02081998_120108790.egse_ltf.du1.avg.cal.div.cal.log f9
mv scia_02081998_120108790.egse_ltf.du1.avg.cal.div.cal.ps f10
mv scia_02081998_120108790.egse_ltf.du1.avg.cal.div.cal.ps.log f11
```

```
#! /bin/sh
mv f0 scia_02081998_120108790.egse_ltf.du1.avg.cal.div.cal
mv f1 scia_02081998_120108790.egse_ltf.du1.avg.cal.div.cal.log
mv f2 scia_02081998_120108790.egse_ltf.du1.avg.cal.div.cal.ps
mv f3 scia_02081998_120108790.egse_ltf.du1.avg.cal.div.cal.ps.log
```

```
#! /bin/sh
mv scia_02081998_120108790.egse_ltf.du1.avg.cal.div.cal f0
mv scia_02081998_120108790.egse_ltf.du1.avg.cal.div.cal.log f1
mv scia_02081998_120108790.egse_ltf.du1.avg.cal.div.cal.ps f2
mv scia_02081998_120108790.egse_ltf.du1.avg.cal.div.cal.ps.log f3
```

Request for Actual Status		(cross out entries that are not requested.)
Request for Modification		(fill in only entries to be modified)
Request for Run	X	(no entries = run based on actual default settings)

Scanner Positions

Azimuth	+45	deg
Elevation	+10.523	deg

Timeline for each Data Acquisition Period during Measurement

	1	2	3	4	5	6	7	8	9	10
State ID	44	45								
Repetitions										

State Parameters for States used in Timeline (State ID must be given)

Channel	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding
1a	4	1						
1b	4	1						
2b	0,5	8						
2a	0,5	8						
3	0,125	32						
4	0,0625	64						
5	0,0625	64						
6	H8	64						
7	H7	64						
8	H8	64						
State ID								

Stimuli Settings for Existing Blocks in Measurement

Block No	Stimuli Setup ID	PPC [deg]	Polarizer [deg]	Shutter open/close	Acquisition Time [s]	Lambda [nm] Start	Stop	Step	Repetition Factor	Message	OS Setup Time [s]

Measurement Data Description

Test Purpose	UID 25
Remark	
Data Directory	02141_13.05.46_WLS_INT

Signatures

	Date	Signature
Issued	2-8-98	M. Stopp
< Performed	2.8.98	

Transfer Data File

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Marion 02-08-98	
	What's the name of the (main) data input files that you want to store on the SUN named `scia6`?	02081998_13083799 9.dat $	(A)
	Setup a three-window configuration on your SUN.		See course descr.
Do Transfer	Be sure that you are in the directory you want your files in ftp <internet-address>, where you can find the address of the PC in the file `/etc/hosts` (entry: cdwpc). The address will also be next to you on paper (most probably). When asked for user, fill in: `anonymous`, when asked for an email address, fill in your email address on TPD. Set in binary: `binary` `mget *` (and return `y` to every file). `bye`		In DATA-DIR window In DATA window Approx. 440 kB

Sign:

Name	Marion
Date and time	020898 14:46 (UTC)
Signature	M. Stopp

Construct CORR directory

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Marion 020898	
	Setup a three-window configuration on your SUN.		See course descr.
Cnstr correction directory	`cd ~/DATA-DIR/CORR ; ls` If there isn't a subdirectory corresponding to the current date, then `mk_corr_dir <date>`, where `<date>` is formated as follows DDMMYY (where DD, MM and YY correspond to the current date, DD = day, MM = month, YY = year 98). What is the name of the new directory?	020898	Note: In window DATA-DIR (A)
Check	`ls -l <A>`		
	`etalon.cal` present?	(Y) / N	
	`dead_bad.pix` present?	(Y) / N	
	`stray.data` present?	(Y) / N	
	`wl.data` present?	(Y) / N	
	`ppg.cal` present?	(Y) / N	
Sign:	Name Date and time Signature	Marion 020898 14:50 (UTC) M. Stoop	

STEP	ACTION	RESULT	MARKER
Intro	Your name:	Marion Stoppelenburg	
	Date:	02-08-98	
	What's the name of the (main) data input files generated by the EGSE? (*.dat)	02081998_130837_999.dat (A)	
	Setup a three-window configuration on your SUN.		See course descr.
Cnstr directory	`cd ~/DATA-DIR/WLS ; ls -1`		Note: In window DATA-DIR
	highest number in directory?	2 (B)	
	New directory: `mkdir <B+1>` `ls -1` What's now the highest number in directory? <C> should be <B> + 1	3 (C) (Y) N	
	directory name is:	~/DATA-DIR/WLS/<C>	(DIR-NAME)
Copy data	See Analysis sheet: Transfer Data File	(Y) N	In DATA-DIR window
Cnstr correction directory	`ls -1 ~/DATA-DIR/CORR` If there isn't a subdirectory corresponding to the current date, then construct a CORRECTION directory (see: analysis sheet Construct CORR directory). What is the valueof the correction subdirectory corresponding to the current date. When running the PPG analysis, you will be asked to select this direcotory when storing the resulting PPG correction file.	020898	In DATA-DIR window

Note: In window DATA-DIR; your current directory should be ~/DATA-DIR/WLS/<C>; don't forget the dot !!! May take more than 15 mins.

Cnstr EGSE_LTF

`cal_raw2ltf .` (Error messages are not necessarily fatal; check with SOLAN --in solan window-- whether output file is okay: there should be a signal present, and `dremark1` labels should be filled)

`ls -l *.egse_ltf`

What's the name of the egse_ltf file scia_02084998_13083799.egse_ltf (D)

`<D>` should be `<A>.egse_ltf` (Y) / N

Cnstr CAL files

`idl run_averscia` (and select file <D> when asked)

Note: In window IDL

Check CAL files

Dark files:

`ls -l *du*.avg.cal`

size: 145998 b should be approx 150Kb

White light file:

`ls -l *.wu*.avg.cal`

size: 145998 b should be approx 150Kb

Note: all files should be present, if not:
(a) Check file <D> using SOLAN and check whether DU, WS and WP labels are present in dremark1 labels
(b) Check if enough disk space is available (Unix command `df -k | more`).

Print postscript

Print postscript files:

`lpr -P<printer> *.ps`

Contents dark file `*du*.avg.cal.ps` should be approx. constant within channels: (Y) / N

Contentsof file `*wu*.avg.cal.ps` should resemble white light source: (Y) / N

Contents of `*rel_std*.ps` files should be smaller than 0.01 (pixel 300 -- 800) for all channels. (Y) / N

If not, value is: _____

Add postscript images to logbook, done (Y) / N

Print logfiles `lpr -P<printer> *.log`
Add logfiles to logbook, done (Y) / N

PPG processing

Run PPG `idl do_ppg` — In IDL window

Check PPG `ls -l *` — In DATA-DIR Window should be approx 150Kb

Size of file `*.du*.cal.ppg.cal` 145948 b

Size of file `*.du*.cal.ppg.cal.log` 360 b

Size of file `*.du*.cal.ppg.cal.ps` 145646 b

Check PPG visually `lpr -P<printer> *.du*.cal.ppg.cal.ps`
Value of PPG should show only a small variation around 1.0 (like noise). (Y) / N
Add postscript images to logbook, done (Y) / N

Print logfiles `lpr -P<printer> *.du*.cal.ppg.cal.log`
Add logfiles to logbook, done (Y) / N

Back up

Create 3 sets of backup CDs of directory <DIR-NAME> (One CD has a capacity of 600 Mbytes, the UNIX command `/usr/bin/du -k .` gives the number of kilo bytes in the current directory). — See analysis sheet BackUp

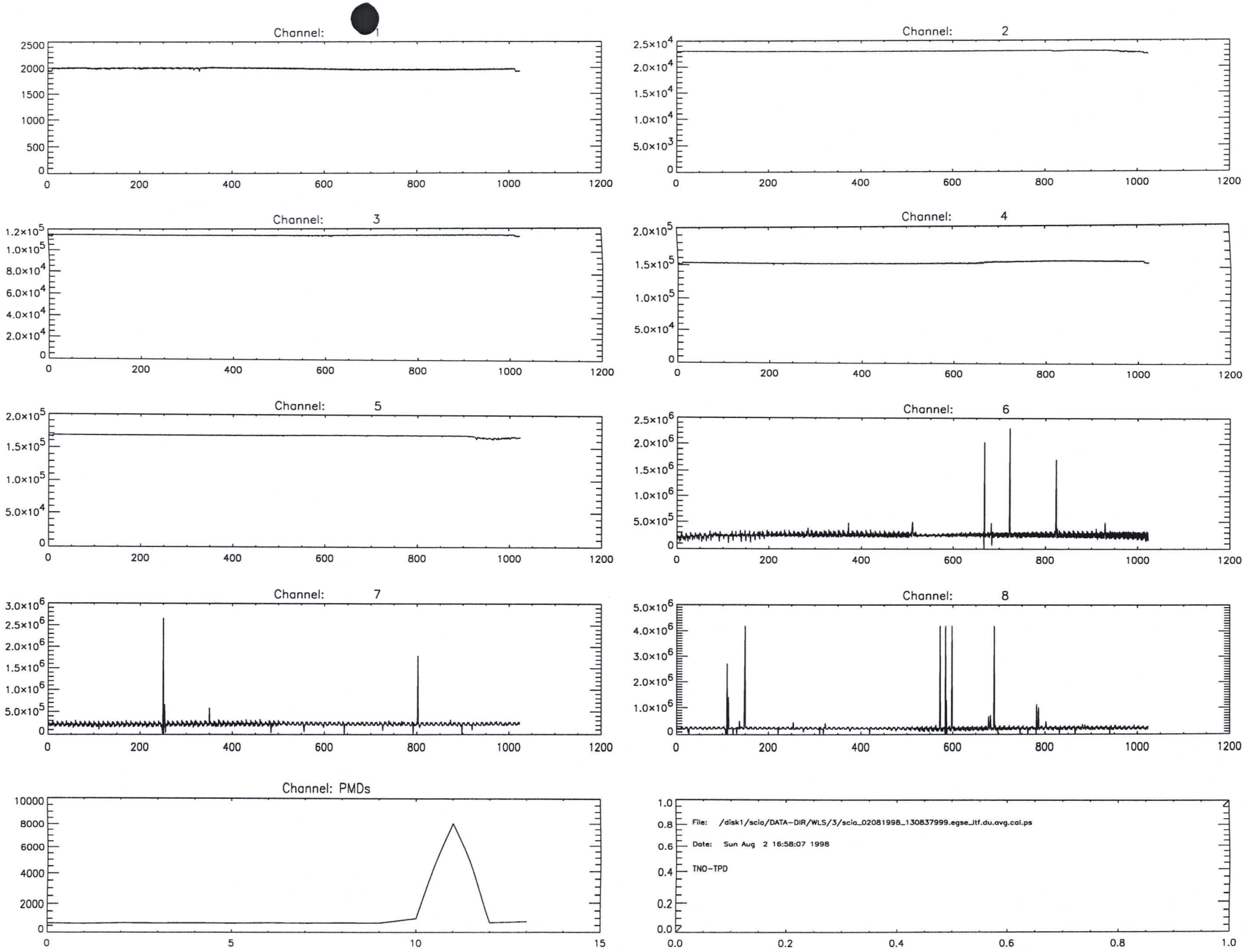
Name of backup CDs 020890D

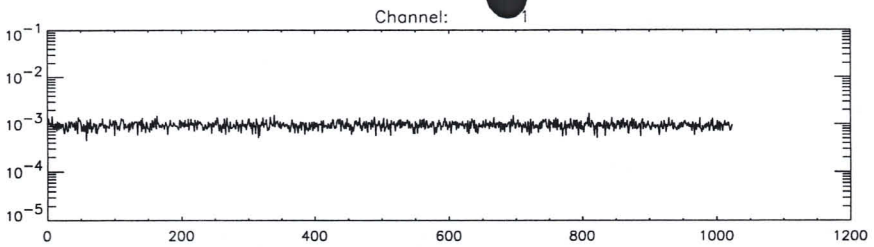
Sign:

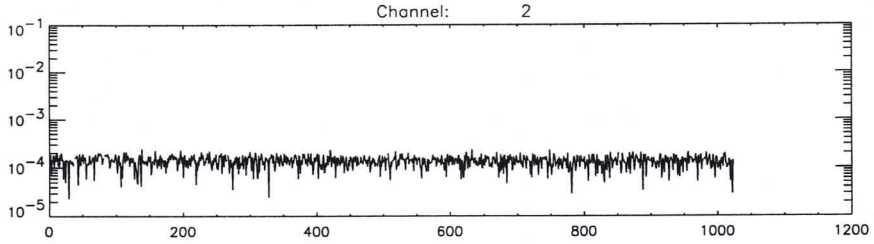
Name Marion

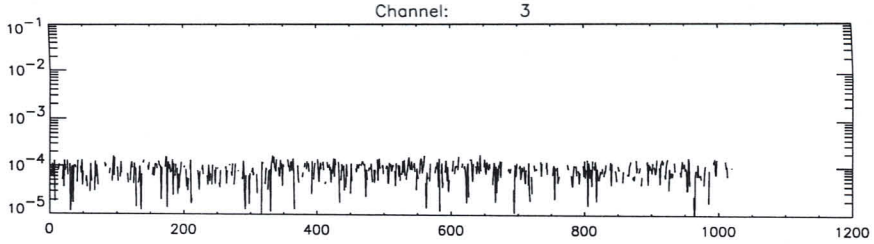
Date and time 020890 15:18 (UTC)

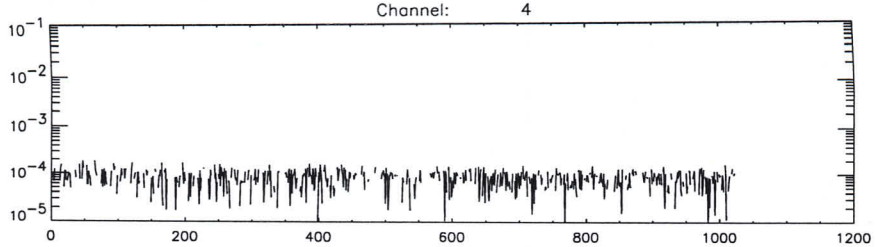
Signature 

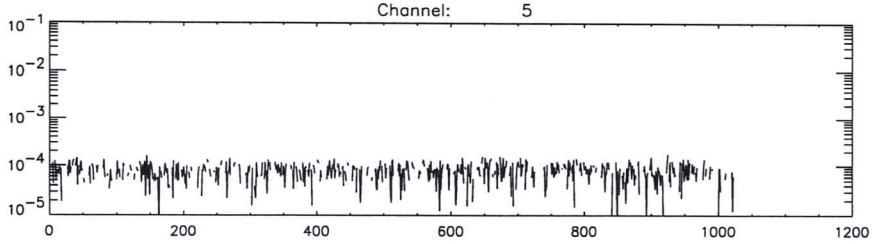

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/WLS/3/scia_02081998_130837999.egse_ltf.du.avg.cal.ps
Date: Sun Aug 2 16:58:07 1998
TNO-TPD

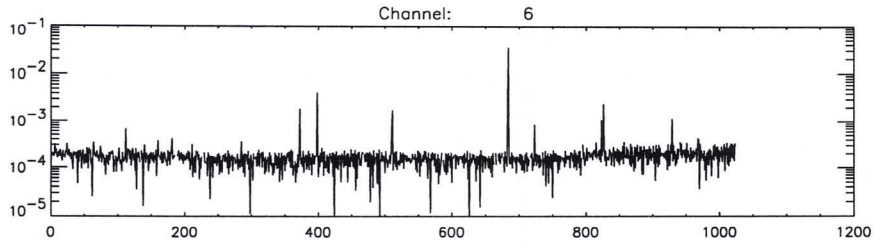

Channel: 1

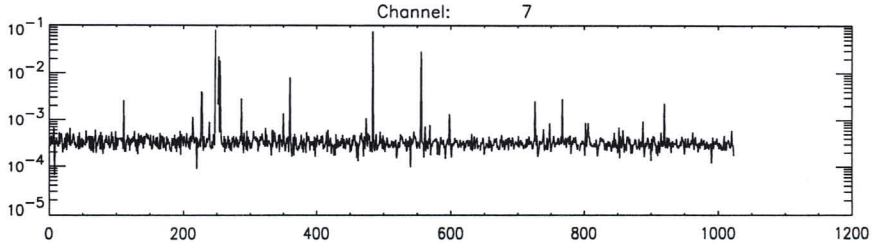

Channel: 2

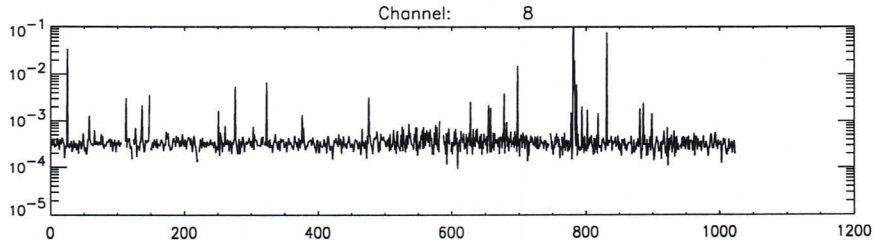

Channel: 3

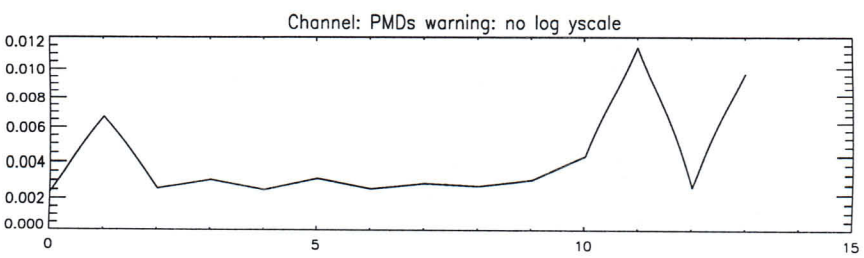

Channel: 4

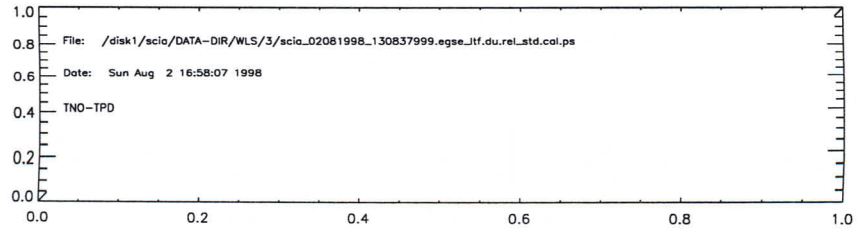

Channel: 5

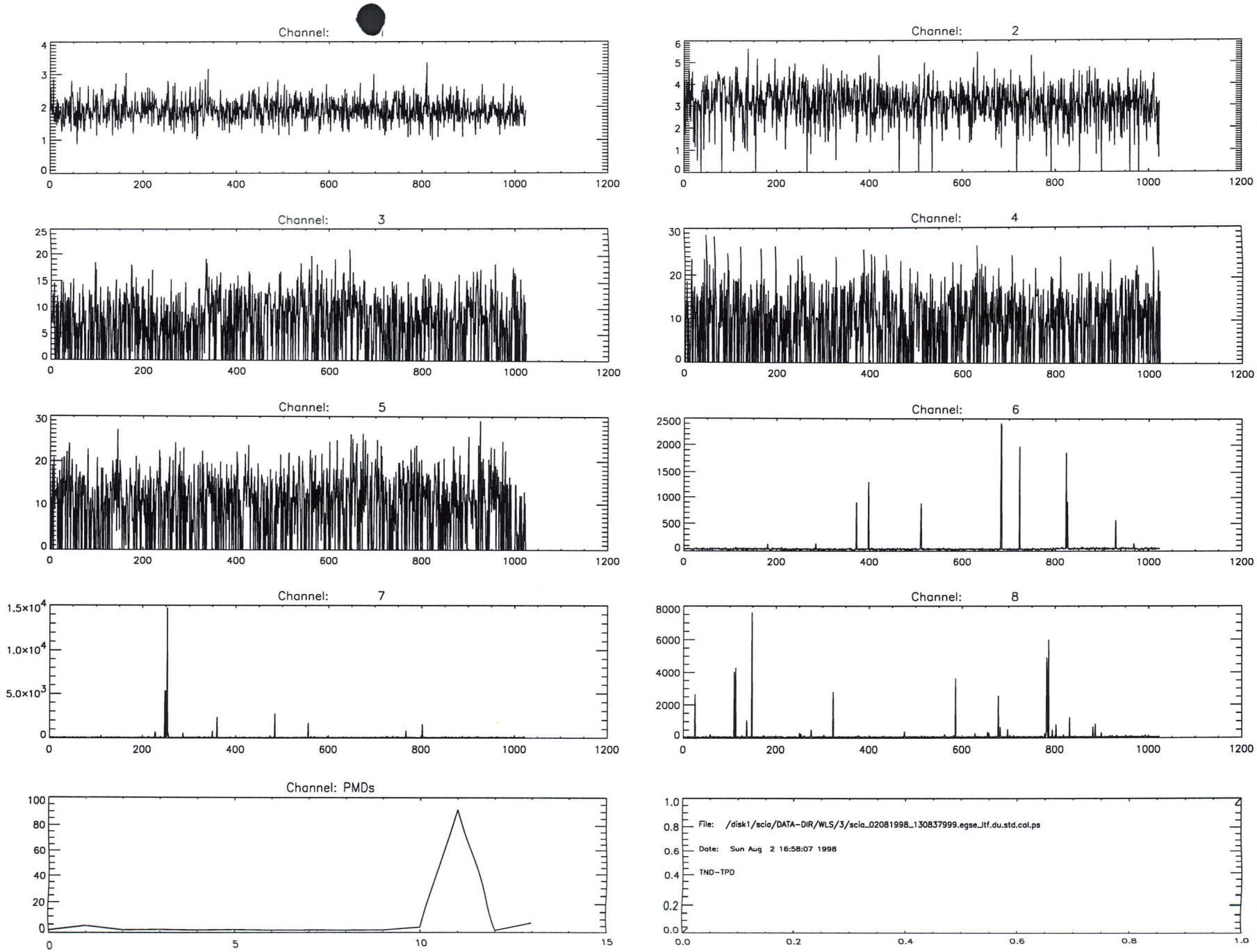

Channel: 6

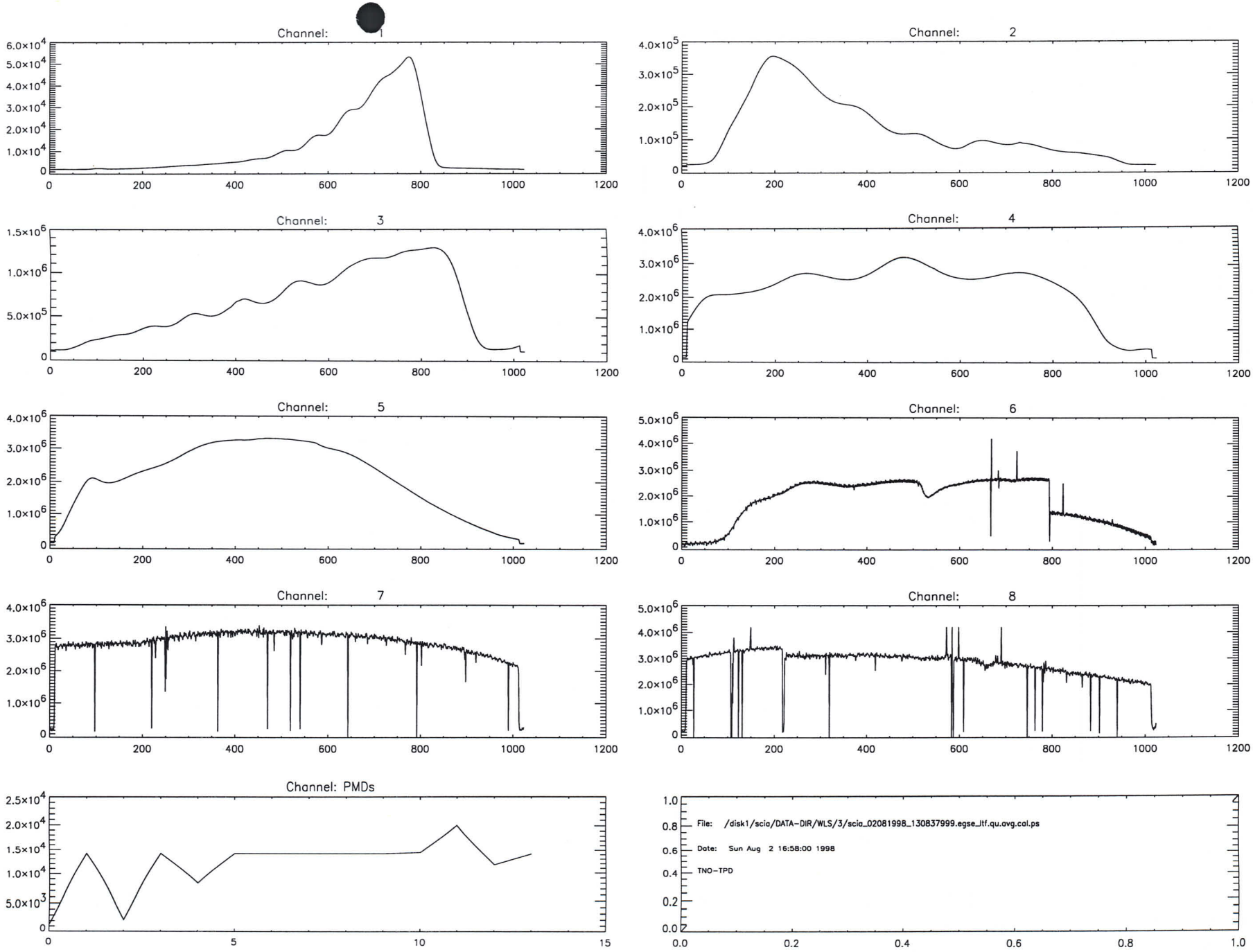

Channel: 7

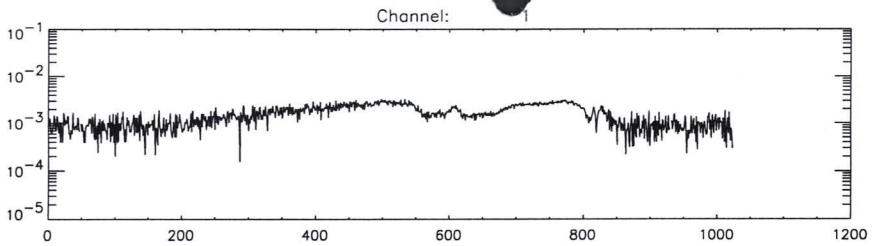

Channel: 8

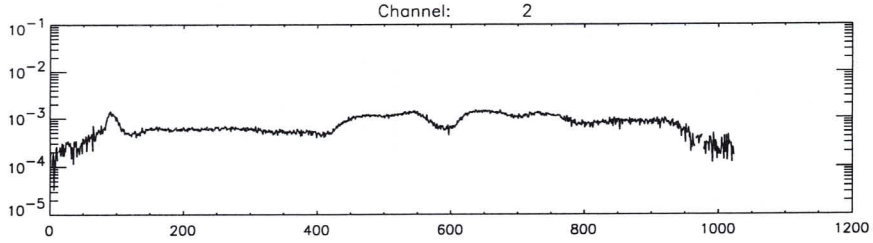

Channel: PMDs warning: no log yscale

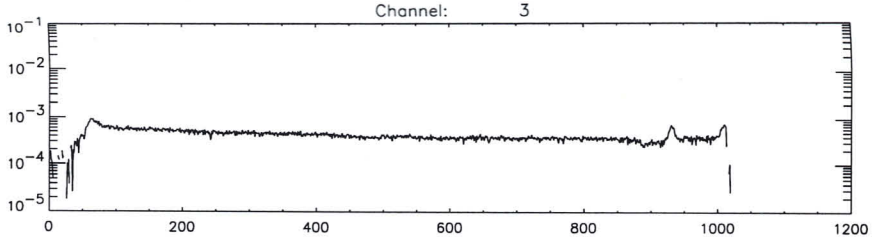

File: /disk1/scia/DATA-DIR/WLS/3/scia_02081998_130837999.egse_ltf.du.rel_std.cal.ps
Date: Sun Aug 2 16:58:07 1998
TNO-TPD

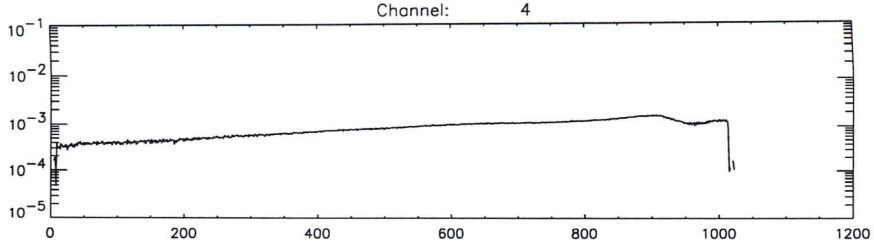

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/WLS/3/scia_02081998_130837999.egse_itf.du.std.cal.ps
Date: Sun Aug 2 16:58:07 1998
TNO-TPD

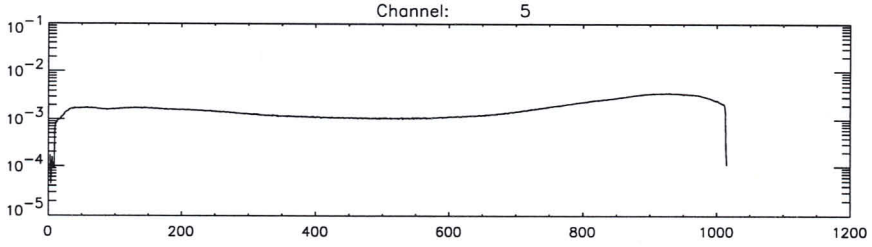

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/WLS/3/scia_02081998_130837999.egse_itf.qu.avg.cal.ps
Date: Sun Aug 2 16:58:00 1998
TNO-TPD

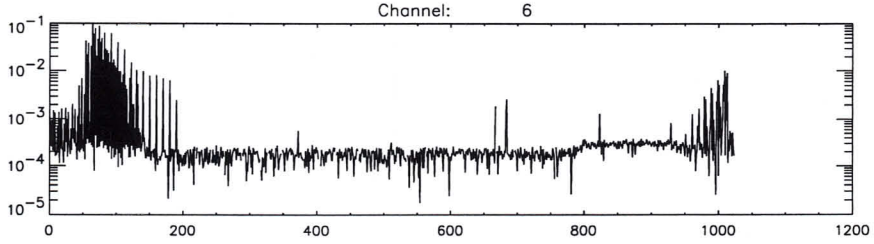

Channel: 1

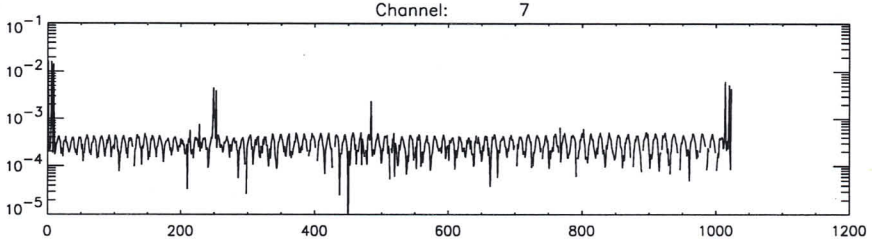

Channel: 2

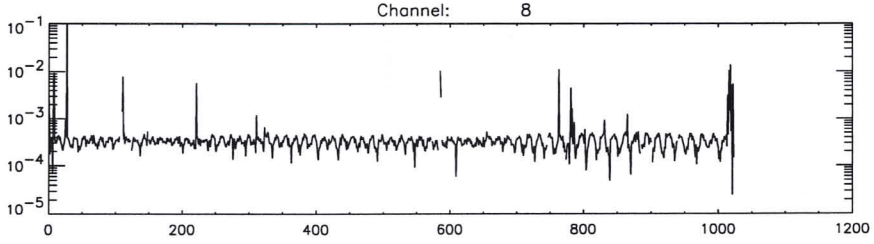

Channel: 3

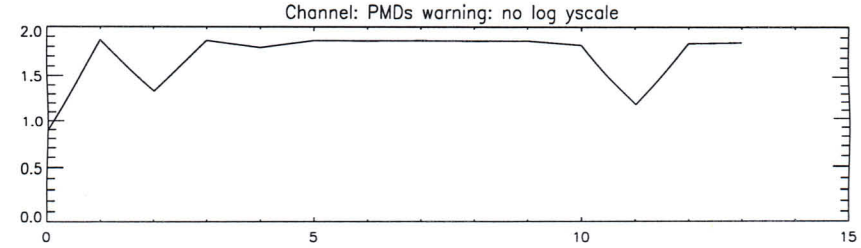

Channel: 4

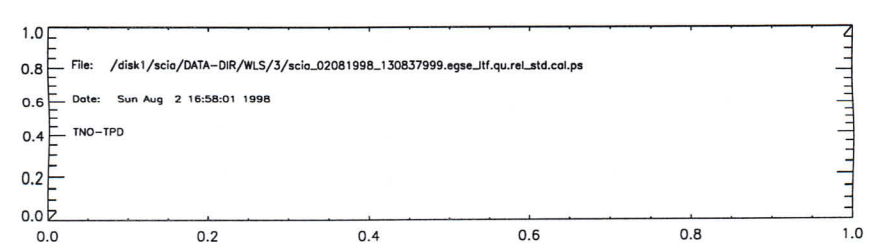

Channel: 5

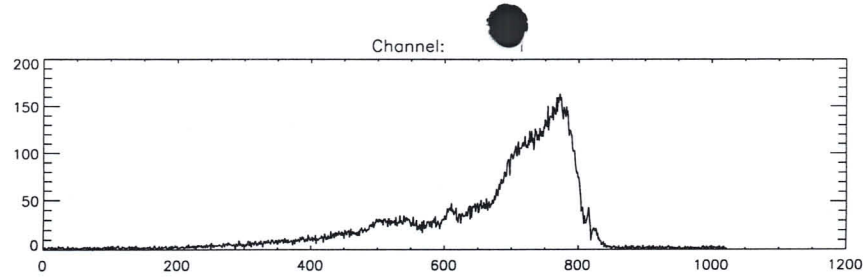

Channel: 6

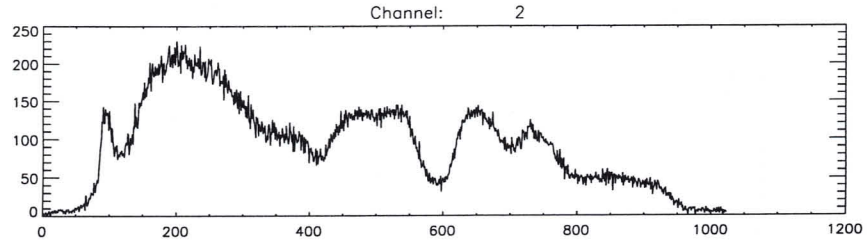

Channel: 7

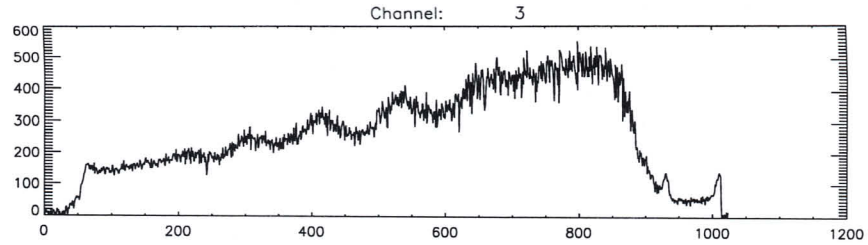

Channel: 8

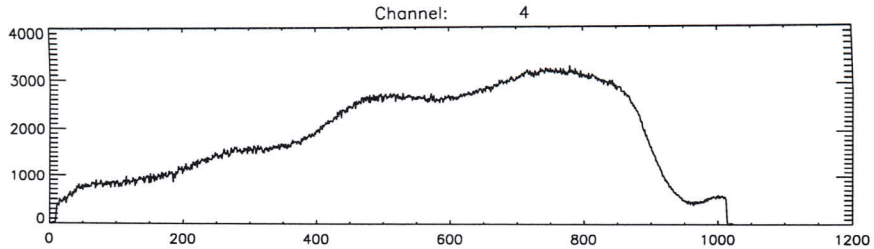

Channel: PMDs warning: no log yscale

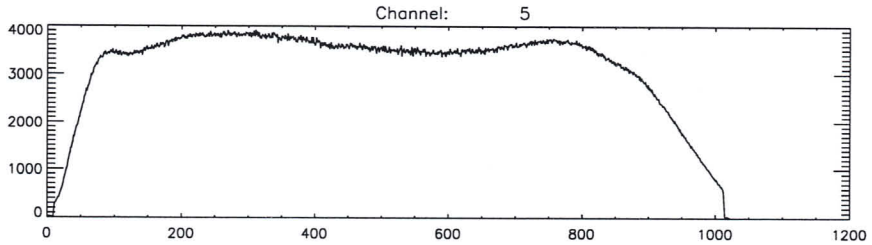

File: /disk1/scia/DATA-DIR/WLS/3/scia_02081998_130837999.egse_itf.qu.rel_std.cal.ps
Date: Sun Aug 2 16:58:01 1998
TNO-TPD

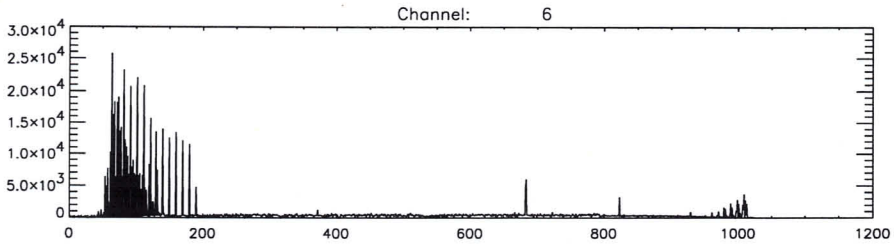

Channel:

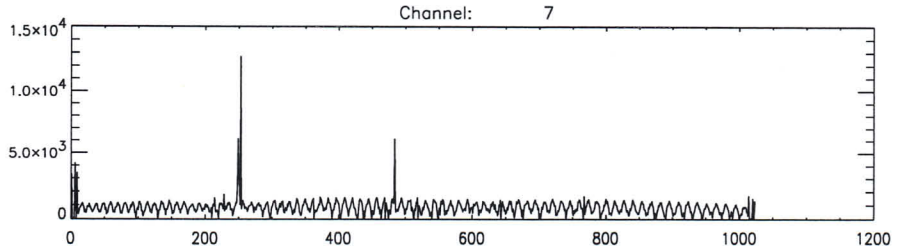

Channel: 2

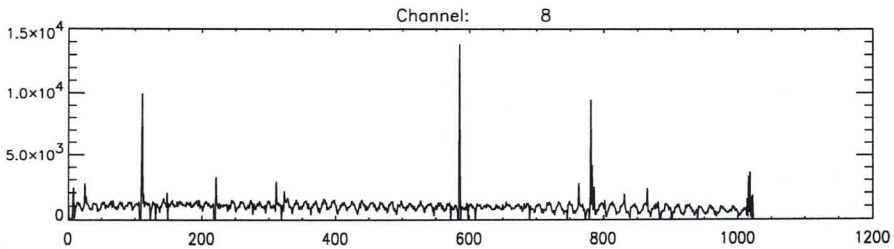

Channel: 3

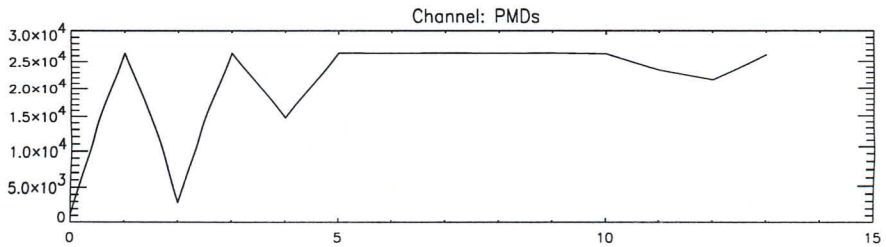

Channel: 4

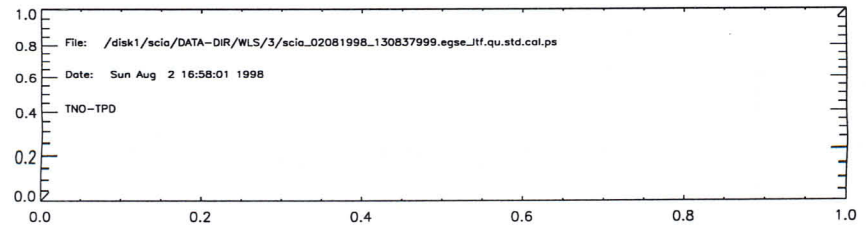

Channel: 5


Channel: 6


Channel: 7


Channel: 8


Channel: PMDs


File: /disk1/scia/DATA-DIR/WLS/3/scia_02081998_130837999.egse_itf.qu.std.cal.ps
Date: Sun Aug 2 16:58:01 1998
TNO-TPD

```
time       = Sun Aug  2 16:58:07 1998
batch      = du
Start TOD  = Sun 02-Aug-98 13:09:03
End   TOD  = Sun 02-Aug-98 13:10:03
Processing= computation of average, standard dev. and rel.standard dev.
```

```
time       = Sun Aug  2 16:58:01 1998
batch      = qu
Start TOD  = Sun 02-Aug-98 13:08:37
End   TOD  = Sun 02-Aug-98 13:09:03
Processing= computation of average, standard dev. and rel.standard dev.
```

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Marion Stoppelenburg 02-08-98	
	What's the name of the (main) data input files generated by the EGSE? `(*.dat)`	02081998_130837999.dat	(A)
	Setup a three-window configuration on your SUN.		See course descr.
Cnstr directory	`cd ~/DATA-DIR/WLS ; ls -l` highest number in directory?	2	Note: In window DATA-DIR (B)
	New directory: `mkdir <B+1>` `ls -l` What's now the highest number in directory? <C> should be <B> + 1 directory name is:	3 Y / N ~/DATA-DIR/WLS/<C>	(Do this only when you haven't already a directory with the source file for PPG purposes.) (C) (DIR-NAME)
Copy data	See Analysis sheet: Transfer Data File	Y / N	In DATA-DIR window
Cnstr correction directory	`ls -l ~/DATA-DIR/CORR` If there isn't a subdirectory corresponding to the current date, then construct a CORRECTION directory (see: analysis sheet Construct CORR directory). What is the valueof the correction subdirectory corresponding to the current date. When running the ETALON analysis, you will be asked to select this direcotory when storing the resulting ETALON correction file.	02 08 98	In DATA-DIR Window

Note: In window DATA-DIR; your current directory should be ~/DATA-DIR/WLS/<C >; don't forget the dot !!! May take more than 15 mins.

Cnstr EGSE_LTF

`cal_raw2ltf .` (Error messages are not necessarily fatal; check with SOLAN --in solan window-- whether output file is okay: there should be a signal present, and `dremark1` labels should be filled)

`ls -l *.egse_ltf`

What's the name of the egse_ltf file scia_02081998_130837999.egse_ltf (D)

`<D>` should be `<A>.egse_ltf` (Y) / N

Cnstr CAL files

`idl run_averscia` (and select file <D> when asked)

Note: In window IDL

In DATA-DIR window

Check CAL files

Dark files:

`ls -l *du*.avg.cal`

size: 145998 b

should be approx 150Kb

White light file:

`ls -l *wu*.avg.cal`

size: 145998 b

should be approx 150Kb

Note: all files should be present, if not:
(a) Check file <D> using SOLAN and check whether DU, WS and WP labels are present in dremark1 labels
(b) Check if enough disk space is available (Unix command `df -k | more`).

Print postscript

Print postscript files:

`lpr -P<printer> *.ps`

Contents dark file `*du*.avg.cal.ps` should be approx. constant within channels: (Y) / N

Contents of file `*uw*.avg.cal.ps` should resemble white light source: (Y) / N

	Contents of `*rel_std*.ps` files should be smaller than 0.01 (pixel 300 -- 800) for all channels. If not, value is:	(Y) / N _____	
	Add postscript images to logbook, done	(Y) / N	
Print logfiles	`lpr -P<printer> *.log` Add logfiles to logbook, done	(Y) / N	

ETALON processing

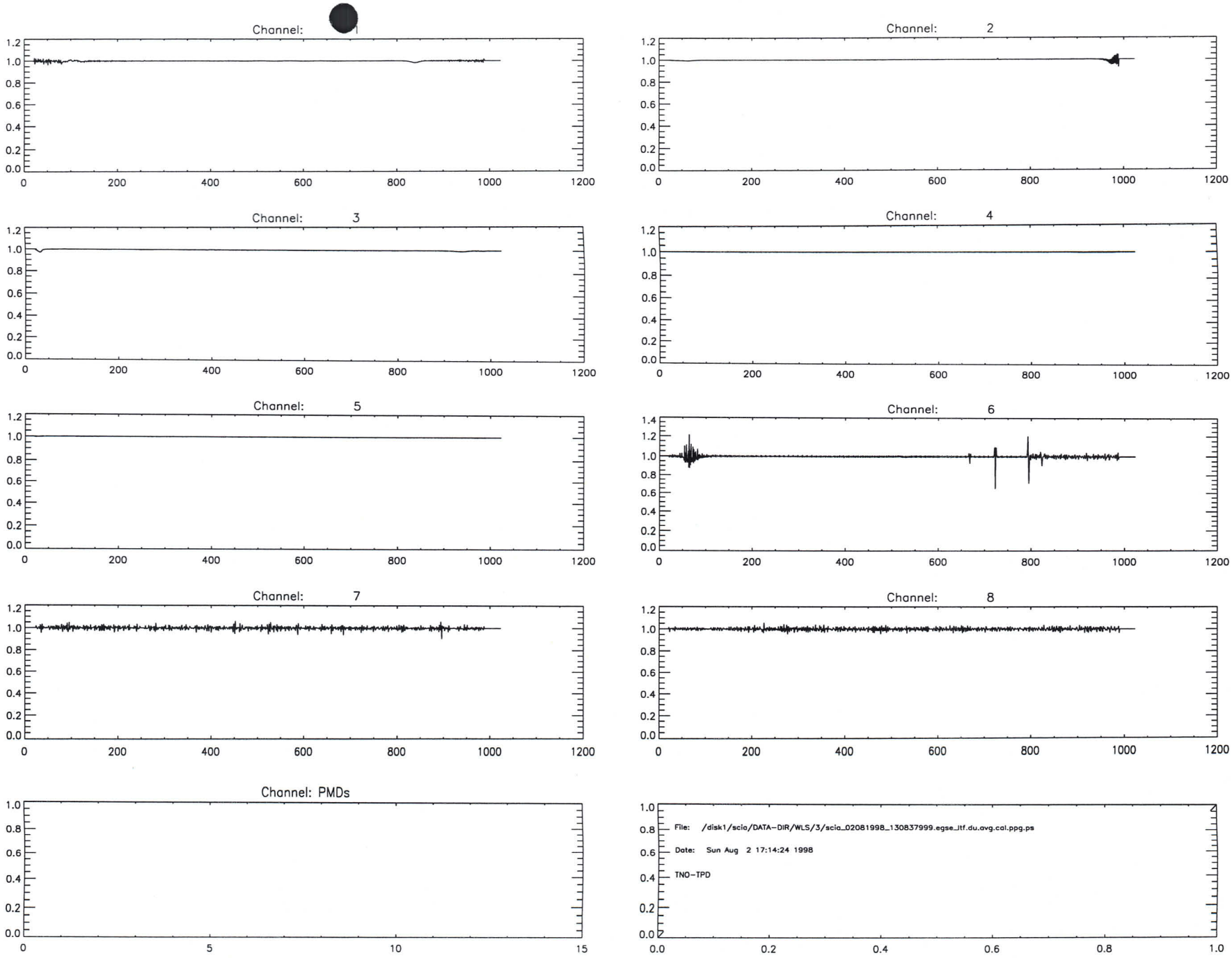
Run ETALON	`idl do_etalon`		In IDL window
Check ETALON	`ls -l <DIR-NAME>/*` Size of file `*.du*.avg.cal.etalon.cal`	145 998 b	In DATA-DIR window should be approx 150Kb
Check ETALON visually	`lpr -P<printer> *.du*.avg.cal.etalon.cal.ps` Value of ETALON should show only a small variation around 1.0 (like noise). Add postscript images to logbook, done	Y / (N) (Y) / N	
Print logfiles	`lpr -P<printer> *.du*.avg.cal.etalon.cal.log` Add logfiles to logbook, done	(Y) / N	

Back up	Create 3 sets of backup CDs of directory <DIR-NAME> (One CD has a capacity of 600 Mbytes, the UNIX command `/usr/bin/du -k .` gives the number of kilo bytes in the current directory). Name of backup CDs	020898 D	See analysis sheet BackUp
Sign:	Name	Marion	

Etalon

Date and time 02 08 98 15:43 (UTC)

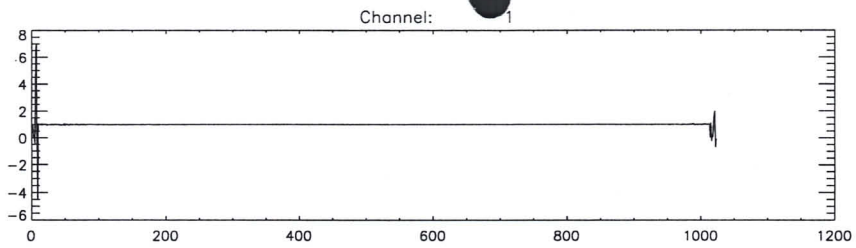
Signature M. Stopp

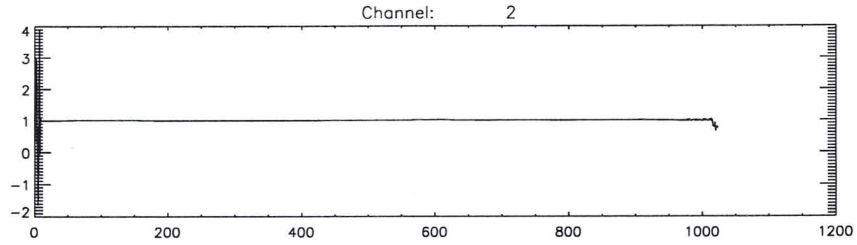

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/WLS/3/scia_02081998_130837999.egse_itf.du.avg.cal.ppg.ps
Date: Sun Aug 2 17:14:24 1998
TNO-TPD

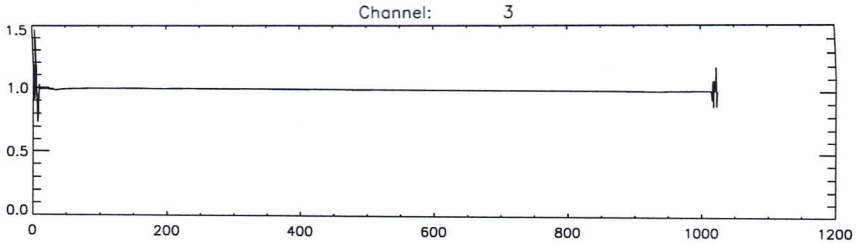
Version: 0.1
Input files:

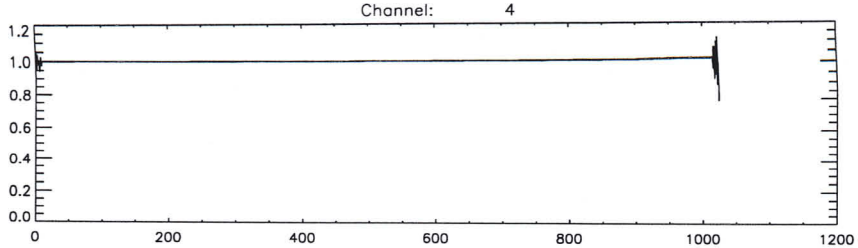
/disk1/scia/DATA-DIR/WLS/3/scia_02081998_130837999.egse_ltf.du.avg.cal and

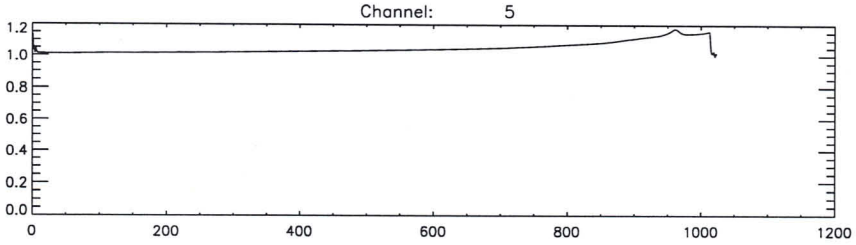
/disk1/scia/DATA-DIR/WLS/3/scia_02081998_130837999.egse_ltf.qu.avg.cal
Action: Computation of Pixel to pixel gain
Processing time: Sun Aug 2 17:14:23 1998
Output file name:
/disk1/scia/DATA-DIR/WLS/3/scia_02081998_130837999.egse_ltf.du.avg.cal.ppg.cal

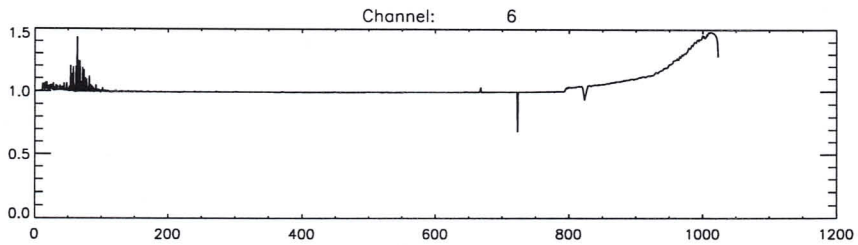

Channel: 1

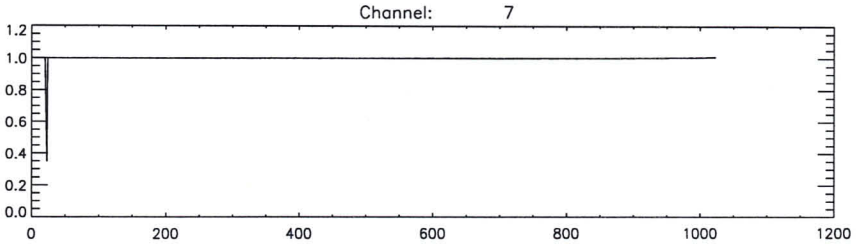

Channel: 2

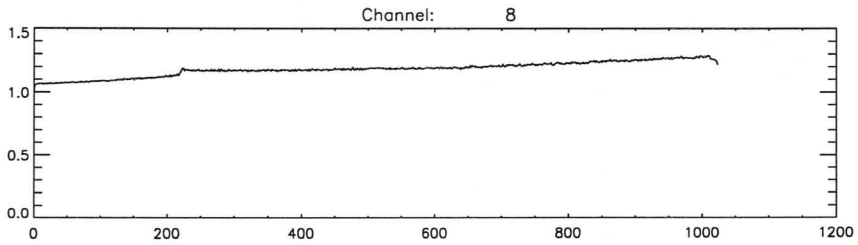

Channel: 3

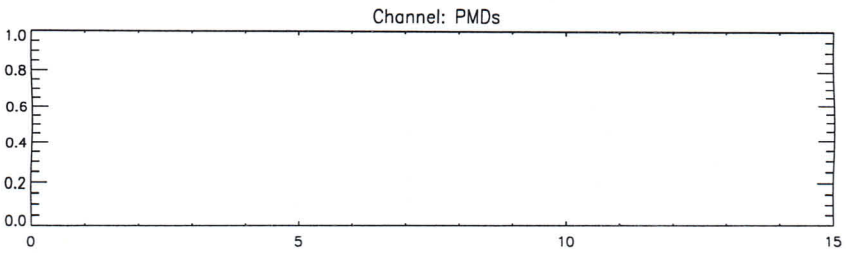

Channel: 4

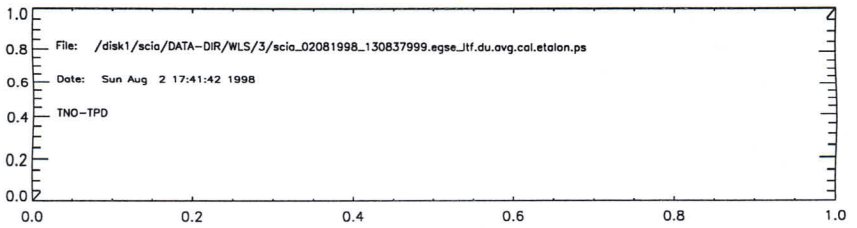

Channel: 5


Channel: 6


Channel: 7


Channel: 8


Channel: PMDs


File: /disk1/scia/DATA-DIR/WLS/3/scia_02081998_130837999.egse_itf.du.avg.cal.etalon.ps
Date: Sun Aug 2 17:41:42 1998
TNO-TPD

Version: 0.1
Input files:

/disk1/scia/DATA-DIR/WLS/3/scia_02081998_130837999.egse_ltf.du.avg.cal and

/disk1/scia/DATA-DIR/WLS/3/scia_02081998_130837999.egse_ltf.qu.avg.cal
Action: Extraction of etalon structure
Processing time: Sun Aug 2 17:40:38 1998
Output file name:
/disk1/scia/DATA-DIR/WLS/3/scia_02081998_130837999.egse_ltf.du.avg.cal.etalon

Pagenumber:

LOG SHEET SCIAMACHY CALIBRATION

	date/time	description of action	measuremement filename
	2-8	SLS internal	
		signal seems ok	
		no polynoom fit - parameters compared	

Formal Run of Measurement

(Measurement ID) 61 SLS-Int

Request for Actual Status		(cross out entries that are **not** requested.)
Request for Modification	X	(fill in only entries to be modified)
Request for Run	X	(no entries = run based on actual default settings)

Scanner Positions

Azimuth	+45	deg
Elevation	+9.765	deg

Timeline for each Data Acquisition Period during Measurement

	1	2	3	4	5	6	7	8	9	10
State ID	41	42								
Repetitions										

State Parameters for States used in Timeline (State ID must be given)

Channel	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding
1a	4	1						
1b	4	1						
2b	1	4						
2a	1	4						
3	0,125	32						
4	0,03125	64						
5	0,25	16						
6	0,25	16						
7	1	4						
8	1	4						
State ID								

Stimuli Settings for Existing Blocks in Measurement

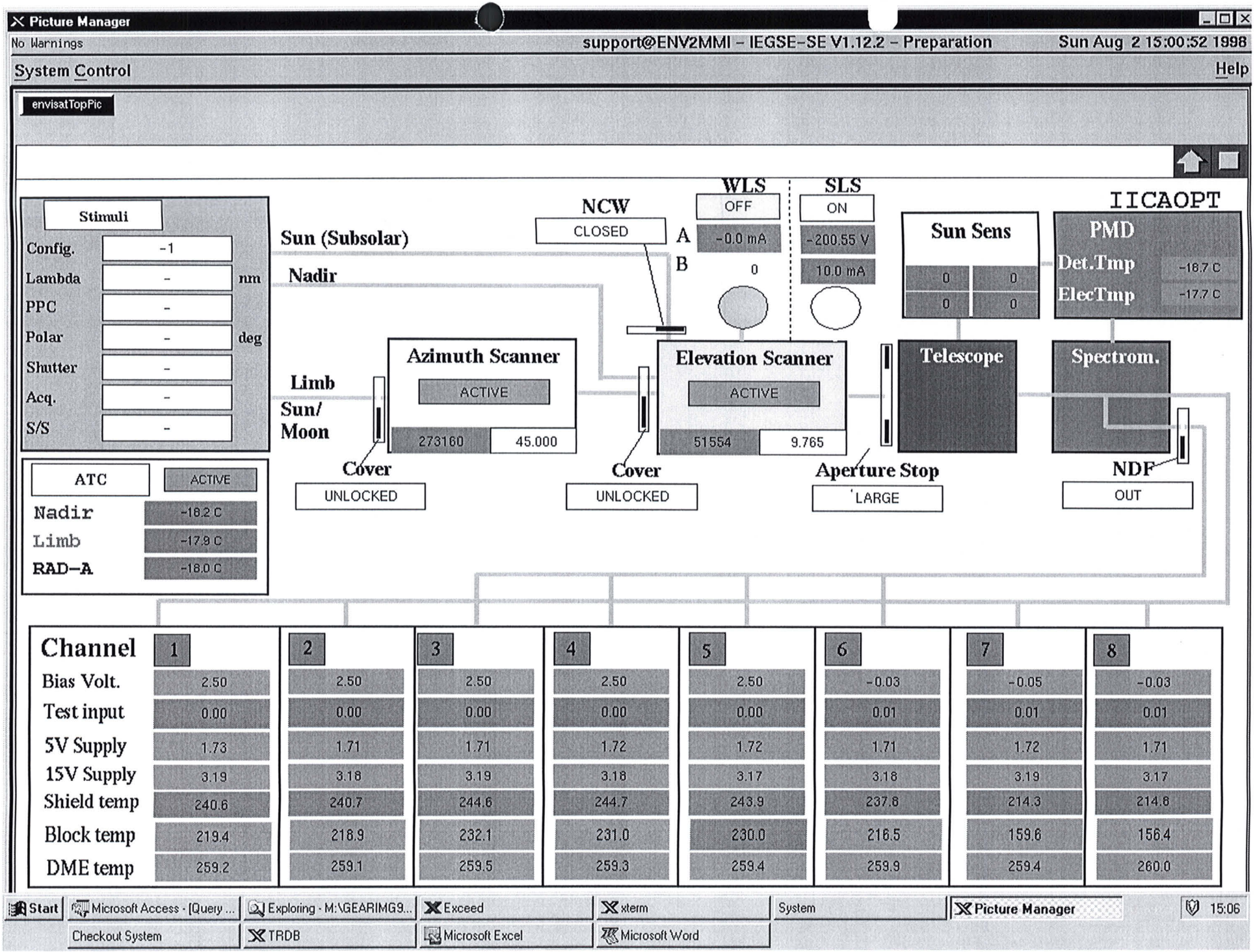
Block No	Stimuli Setup ID	PPC [deg]	Polarizer [deg]	Shutter open/close	Acquisition Time [s]	Lambda [nm] Start	Stop	Step	Repetition Factor	Message	OS Setup Time [s]

Measurement Data Description

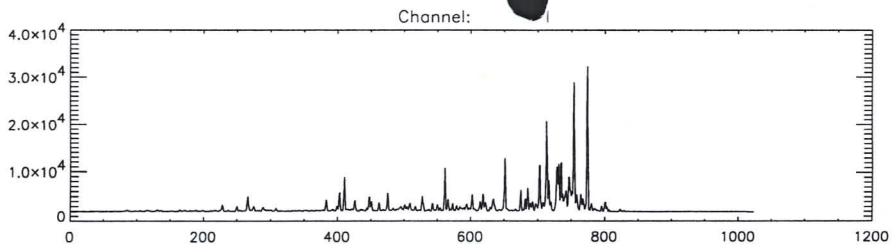
Test Purpose	LITD 24
Remark	
Data Directory	0214_14.56.17_SLS_INT

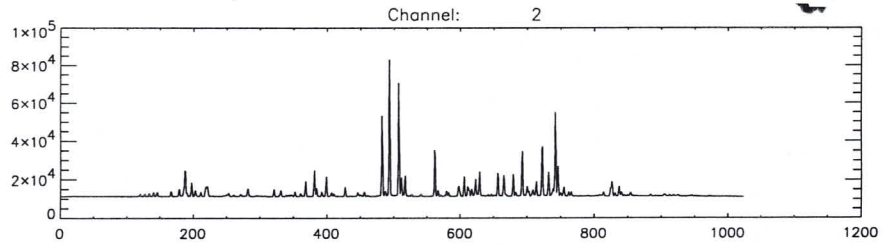
Signatures

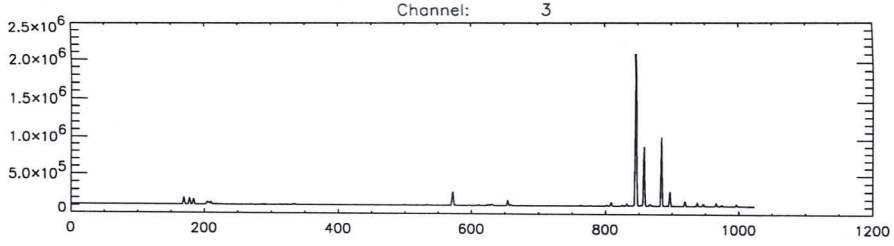
	Date	Signature
Issued	2-8-98	M. Stapp
< Performed	2.8.98	

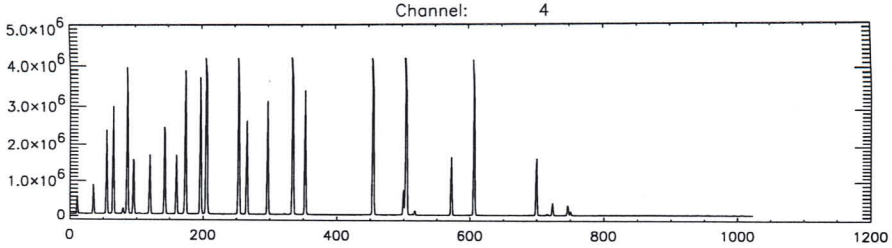

Picture Manager
No Warnings
support@ENV2MMI - IEGSE-SE V1.12.2 - Preparation
Sun Aug 2 15:00:52 1998
System Control
Help
envisatTopPic
Stimuli
Config. -1
Lambda - nm
PPC -
Polar - deg
Shutter -
Acq. -
S/S -
ATC ACTIVE
Nadir -18.2 C
Limb -17.9 C
RAD-A -18.0 C
Sun (Subsolar)
Nadir
Limb
Sun/
Moon
NCW
CLOSED
WLS
OFF
A -0.0 mA
B 0
SLS
ON
-200.55 V
10.0 mA
Azimuth Scanner
ACTIVE
273160 45.000
Elevation Scanner
ACTIVE
51554 9.765
Cover
UNLOCKED
Cover
UNLOCKED
Aperture Stop
LARGE
Sun Sens
0 0
0 0
Telescope
IICAOPT
PMD
Det.Tmp -16.7 C
ElecTmp -17.7 C
Spectrom.
NDF
OUT
Channel 1 2 3 4 5 6 7 8
Bias Volt. 2.50 2.50 2.50 2.50 2.50 -0.03 -0.05 -0.03
Test input 0.00 0.00 0.00 0.00 0.00 0.01 0.01 0.01
5V Supply 1.73 1.71 1.71 1.72 1.72 1.71 1.72 1.71
15V Supply 3.19 3.18 3.19 3.18 3.17 3.18 3.19 3.17
Shield temp 240.6 240.7 244.6 244.7 243.9 237.8 214.3 214.8
Block temp 219.4 218.9 232.1 231.0 230.0 216.5 159.6 156.4
DME temp 259.2 259.1 259.5 259.3 259.4 259.9 259.4 260.0
Start
Microsoft Access - [Query ...
Exploring - M:\GEARIMG9...
Exceed
xterm
System
Picture Manager
15:06
Checkout System
TRDB
Microsoft Excel
Microsoft Word

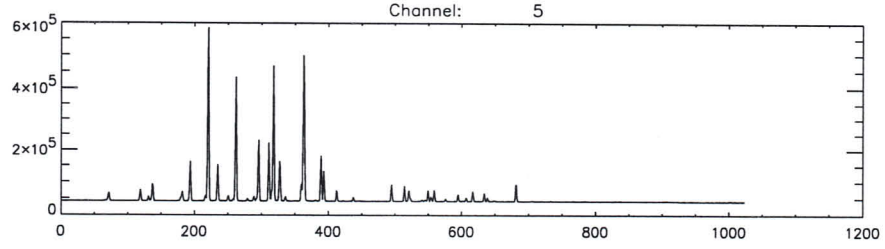
2-8-98

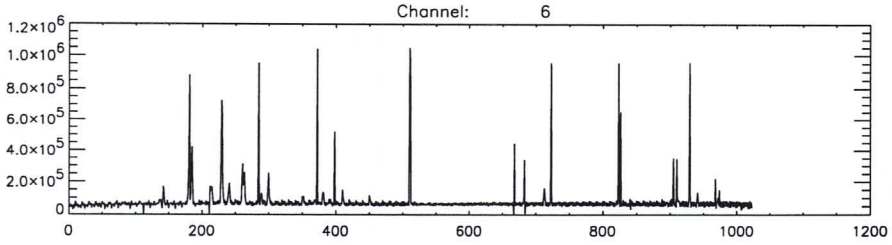

Channel:
4.0x10^4
3.0x10^4
2.0x10^4
1.0x10^4
0
0
200
400
600
800
1000
1200

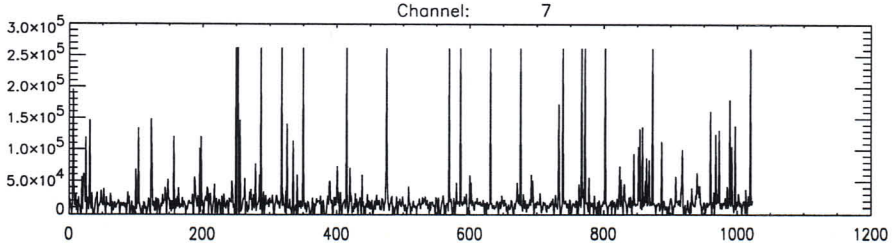

Channel: 2
1x10^5
8x10^4
6x10^4
4x10^4
2x10^4
0
0
200
400
600
800
1000
1200

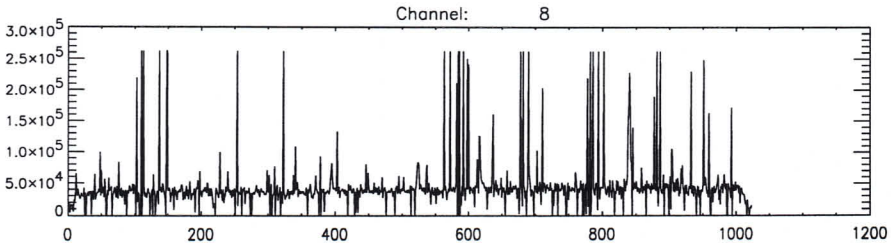

Channel: 3
2.5x10^6
2.0x10^6
1.5x10^6
1.0x10^6
5.0x10^5
0
0
200
400
600
800
1000
1200

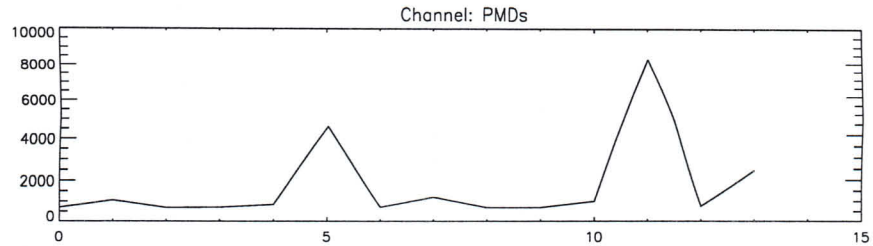

Channel: 4
5.0x10^6
4.0x10^6
3.0x10^6
2.0x10^6
1.0x10^6
0
0
200
400
600
800
1000
1200

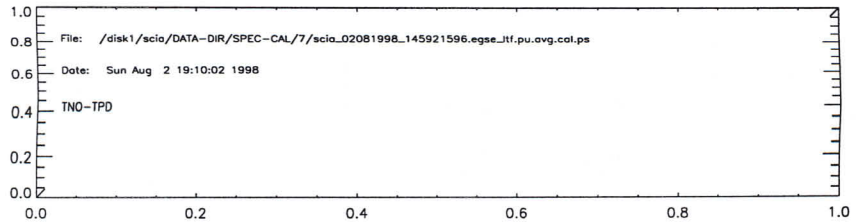

Channel: 5
6x10^5
4x10^5
2x10^5
0
0
200
400
600
800
1000
1200

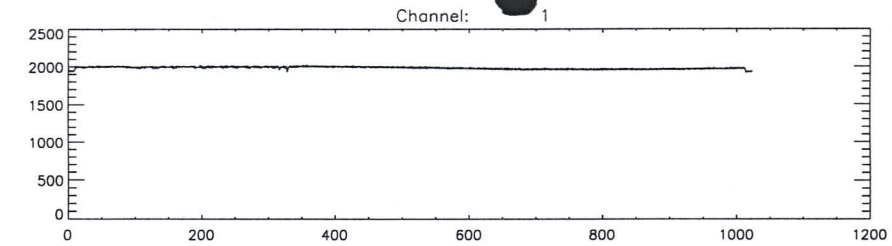

Channel: 6
1.2x10^6
1.0x10^6
8.0x10^5
6.0x10^5
4.0x10^5
2.0x10^5
0
0
200
400
600
800
1000
1200

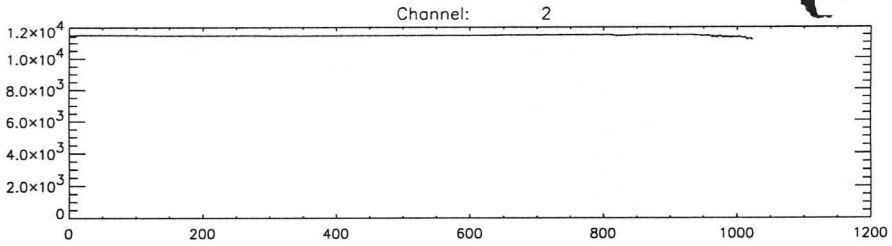

Channel: 7
3.0x10^5
2.5x10^5
2.0x10^5
1.5x10^5
1.0x10^5
5.0x10^4
0
0
200
400
600
800
1000
1200

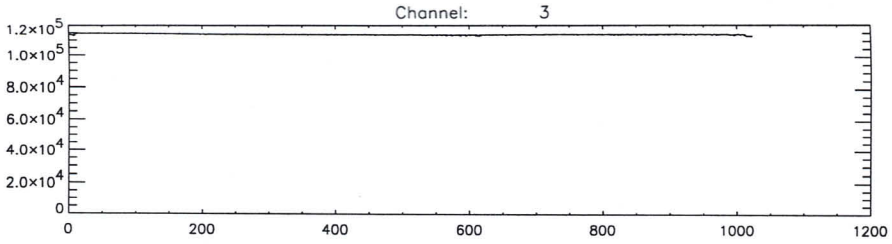

Channel: 8
3.0x10^5
2.5x10^5
2.0x10^5
1.5x10^5
1.0x10^5
5.0x10^4
0
0
200
400
600
800
1000
1200

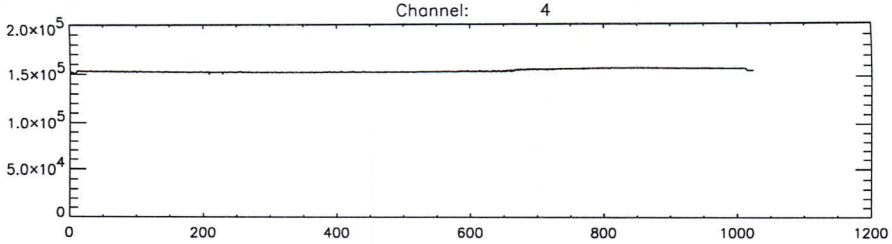

Channel: PMDs
10000
8000
6000
4000
2000
0
0
5
10
15

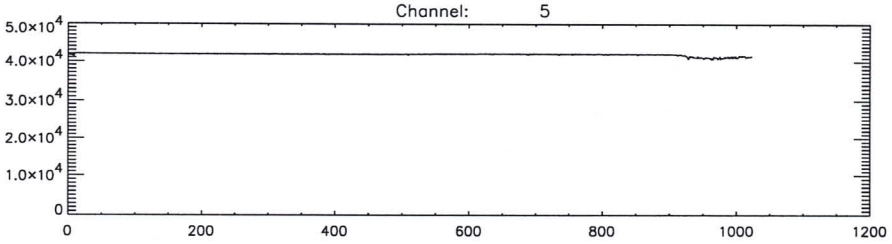

File: /disk1/scia/DATA-DIR/SPEC-CAL/7/scia_02081998_145921596.egse_itf.pu.avg.cal.ps
Date: Sun Aug 2 19:10:02 1998
TNO-TPD
1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0

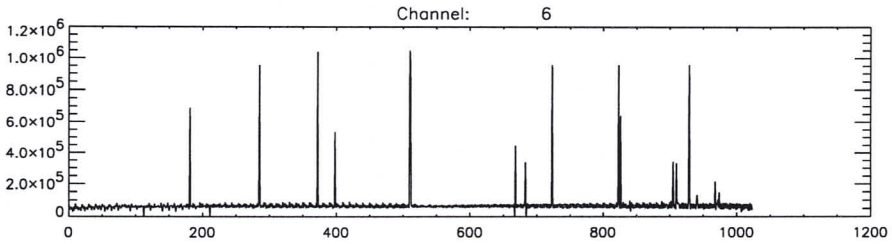

Channel: 1
2500
2000
1500
1000
500
0
0
200
400
600
800
1000
1200

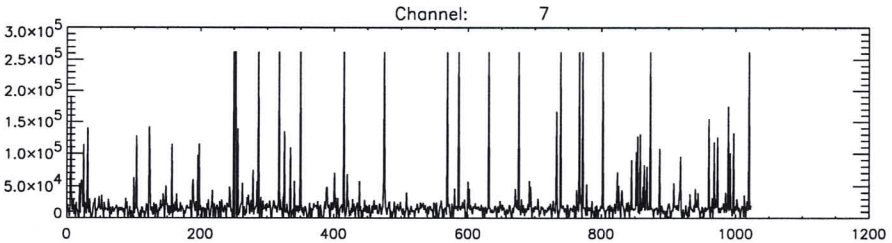

Channel: 2
1.2x10^4
1.0x10^4
8.0x10^3
6.0x10^3
4.0x10^3
2.0x10^3
0
0
200
400
600
800
1000
1200

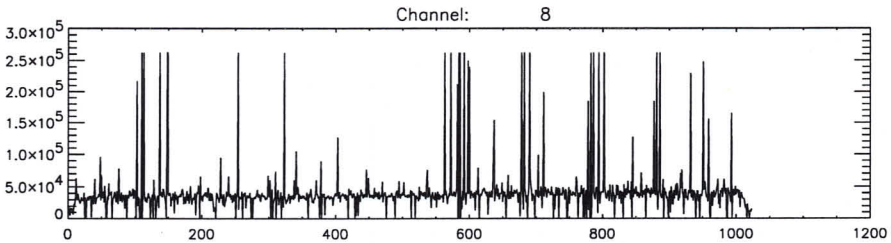

Channel: 3
1.2x10^5
1.0x10^5
8.0x10^4
6.0x10^4
4.0x10^4
2.0x10^4
0
0
200
400
600
800
1000
1200

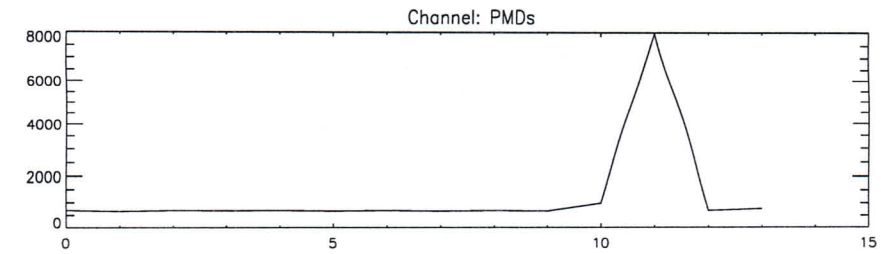

Channel: 4
2.0x10^5
1.5x10^5
1.0x10^5
5.0x10^4
0
0
200
400
600
800
1000
1200

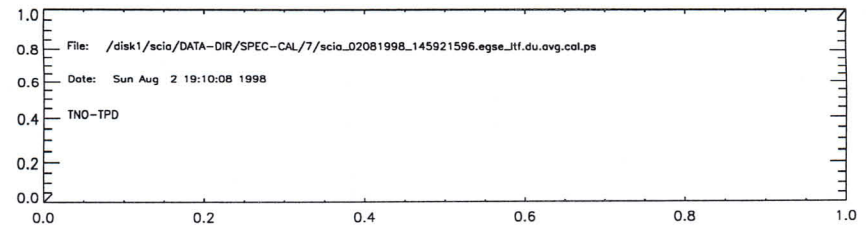

Channel: 5
5.0x10^4
4.0x10^4
3.0x10^4
2.0x10^4
1.0x10^4
0
0
200
400
600
800
1000
1200


Channel: 6
1.2x10^6
1.0x10^6
8.0x10^5
6.0x10^5
4.0x10^5
2.0x10^5
0
0
200
400
600
800
1000
1200


Channel: 7
3.0x10^5
2.5x10^5
2.0x10^5
1.5x10^5
1.0x10^5
5.0x10^4
0
0
200
400
600
800
1000
1200

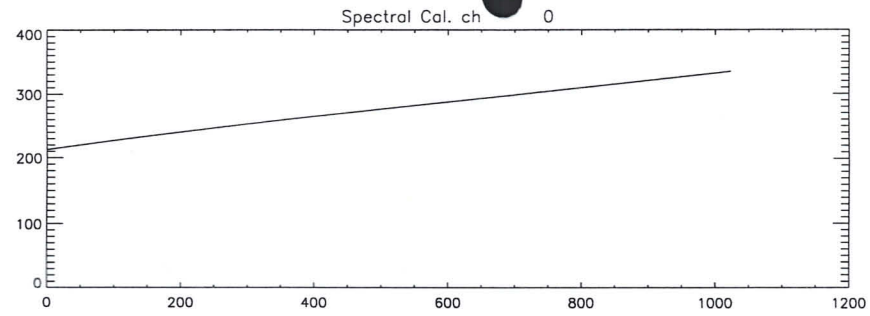

Channel: 8
3.0x10^5
2.5x10^5
2.0x10^5
1.5x10^5
1.0x10^5
5.0x10^4
0
0
200
400
600
800
1000
1200

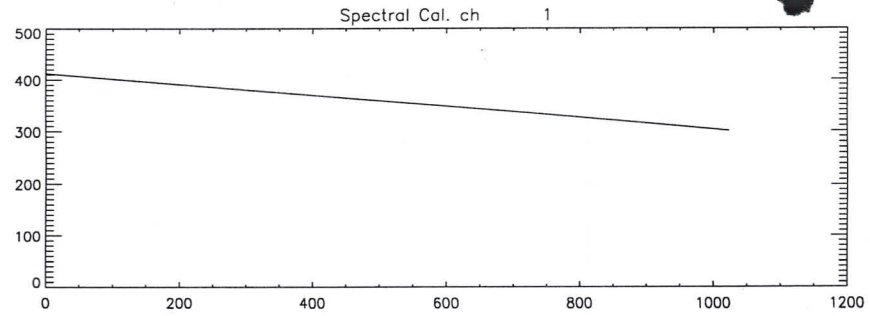

Channel: PMDs
8000
6000
4000
2000
0
0
5
10
15

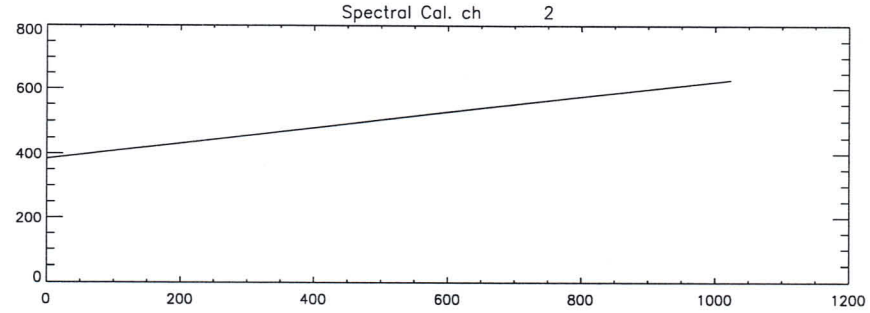

File: /disk1/scia/DATA-DIR/SPEC-CAL/7/scia_02081998_145921596.egse_itf.du.avg.cal.ps
Date: Sun Aug 2 19:10:08 1998
TNO-TPD
1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0

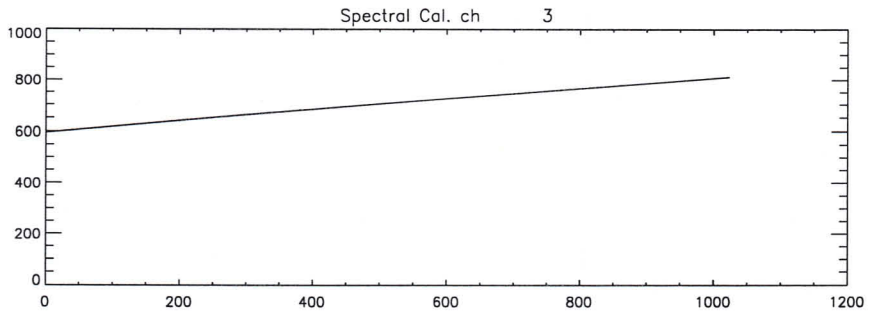
```
time       = Sun Aug  2 19:10:09 1998
batch      = du
Start TOD  = Sun 02-Aug-98 14:59:46
End   TOD  = Sun 02-Aug-98 15:00:46
Processing= computation of average, standard dev. and rel.standard dev.
```

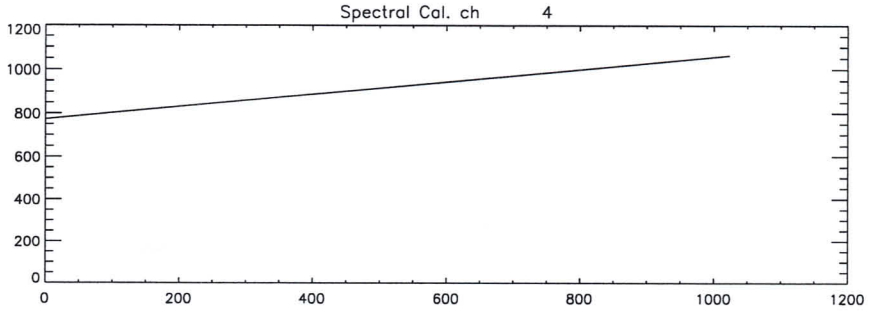
```
time       = Sun Aug   2 19:10:02 1998
batch      = pu
Start TOD  = Sun 02-Aug-98 14:59:21
End   TOD  = Sun 02-Aug-98 14:59:46
Processing= computation of average, standard dev. and rel.standard dev.
```

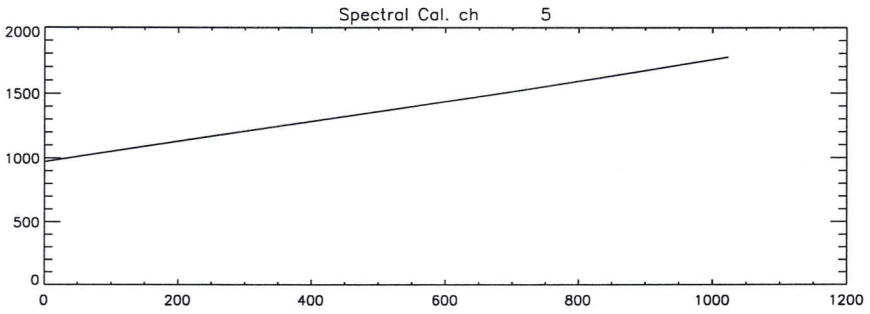

Spectral Cal. ch 0
400
300
200
100
0
0
200
400
600
800
1000
1200

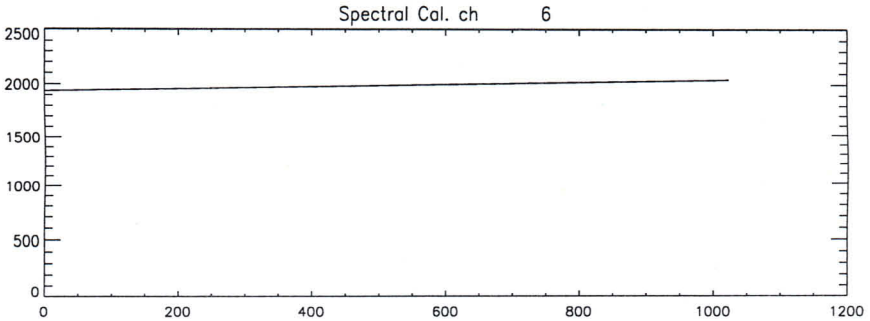

Spectral Cal. ch 1
500
400
300
200
100
0
0
200
400
600
800
1000
1200

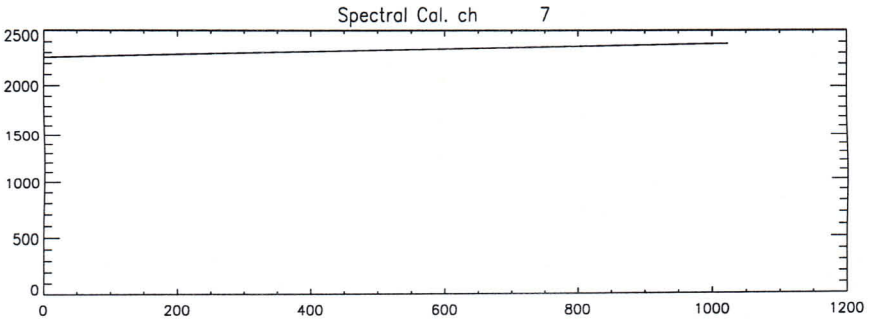

Spectral Cal. ch 2
800
600
400
200
0
0
200
400
600
800
1000
1200


Spectral Cal. ch 3
1000
800
600
400
200
0
0
200
400
600
800
1000
1200


Spectral Cal. ch 4
1200
1000
800
600
400
200
0
0
200
400
600
800
1000
1200


Spectral Cal. ch 5
2000
1500
1000
500
0
0
200
400
600
800
1000
1200


Spectral Cal. ch 6
2500
2000
1500
1000
500
0
0
200
400
600
800
1000
1200


Spectral Cal. ch 7
2500
2000
1500
1000
500
0
0
200
400
600
800
1000
1200

Version: 0.1
Input files:

/disk1/scia/DATA-DIR/SPEC-CAL/7/scia_02081998_145921596.egse_ltf.du.avg.cal
and

/disk1/scia/DATA-DIR/SPEC-CAL/7/scia_02081998_145921596.egse_ltf.pu.avg.cal
Action:
Spectral calibration
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/latest/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/latest/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/latest/stray.da
Coefficients in file /disk1/scia/DATA-DIR/SPEC-CAL/7/scia_02081998_145921596.e
Processing time: Sun Aug 2 19:23:05 1998
Output file name:
/disk1/scia/DATA-DIR/SPEC-CAL/7/scia_02081998_145921596.egse_ltf.du.avg.cal.wl

```
time       = Sun Aug  2 19:10:09 1998
batch      = du
Start TOD  = Sun 02-Aug-98 14:59:46
End   TOD  = Sun 02-Aug-98 15:00:46
Processing= computation of average, standard dev. and rel.standard dev.
```

```
time       = Sun Aug  2 19:10:02 1998
batch      = pu
Start TOD  = Sun 02-Aug-98 14:59:21
End   TOD  = Sun 02-Aug-98 14:59:46
Processing= computation of average, standard dev. and rel.standard dev.
```

```
#! /bin/sh
mv 214y1455.doc f0
mv 214y1501.xls f1
mv I00S0DAPB102.38.980802-145809 f2
mv WS_FTP.LOG f3
mv dapbchklog f4
mv dapbseqlog f5
mv egse.inf f6
mv gemsmpara.dat f7
mv hk_ccb.dat f8
mv scia_02081998_145921596.dat f9
mv scia_02081998_145921596.egse_ltf f10
mv scia_02081998_145921596.egse_ltf.du.avg.cal f11
mv scia_02081998_145921596.egse_ltf.du.avg.cal.ps f12
mv scia_02081998_145921596.egse_ltf.du.avg.cal.wl.data f13
mv scia_02081998_145921596.egse_ltf.du.avg.cal.wl.data.log f14
mv scia_02081998_145921596.egse_ltf.du.avg.cal.wl.data.ps f15
mv scia_02081998_145921596.egse_ltf.du.log f16
mv scia_02081998_145921596.egse_ltf.du.rel_std.cal f17
mv scia_02081998_145921596.egse_ltf.du.rel_std.cal.ps f18
mv scia_02081998_145921596.egse_ltf.du.std.cal f19
mv scia_02081998_145921596.egse_ltf.du.std.cal.ps f20
mv scia_02081998_145921596.egse_ltf.pu.avg.cal f21
mv scia_02081998_145921596.egse_ltf.pu.avg.cal.ps f22
mv scia_02081998_145921596.egse_ltf.pu.log f23
mv scia_02081998_145921596.egse_ltf.pu.rel_std.cal f24
mv scia_02081998_145921596.egse_ltf.pu.rel_std.cal.ps f25
mv scia_02081998_145921596.egse_ltf.pu.std.cal f26
mv scia_02081998_145921596.egse_ltf.pu.std.cal.ps f27
```

```
#! /bin/sh
mv f0 214y1455.doc
mv f1 214y1501.xls
mv f2 I00S0DAPB102.38.980802-145809
mv f3 WS_FTP.LOG
mv f4 dapbchklog
mv f5 dapbseqlog
mv f6 egse.inf
mv f7 gemsmpara.dat
mv f8 hk_ccb.dat
mv f9 scia_02081998_145921596.dat
mv f10 scia_02081998_145921596.egse_ltf
mv f11 scia_02081998_145921596.egse_ltf.du.avg.cal
mv f12 scia_02081998_145921596.egse_ltf.du.avg.cal.ps
mv f13 scia_02081998_145921596.egse_ltf.du.avg.cal.wl.data
mv f14 scia_02081998_145921596.egse_ltf.du.avg.cal.wl.data.log
mv f15 scia_02081998_145921596.egse_ltf.du.avg.cal.wl.data.ps
mv f16 scia_02081998_145921596.egse_ltf.du.log
mv f17 scia_02081998_145921596.egse_ltf.du.rel_std.cal
mv f18 scia_02081998_145921596.egse_ltf.du.rel_std.cal.ps
mv f19 scia_02081998_145921596.egse_ltf.du.std.cal
mv f20 scia_02081998_145921596.egse_ltf.du.std.cal.ps
mv f21 scia_02081998_145921596.egse_ltf.pu.avg.cal
mv f22 scia_02081998_145921596.egse_ltf.pu.avg.cal.ps
mv f23 scia_02081998_145921596.egse_ltf.pu.log
mv f24 scia_02081998_145921596.egse_ltf.pu.rel_std.cal
mv f25 scia_02081998_145921596.egse_ltf.pu.rel_std.cal.ps
mv f26 scia_02081998_145921596.egse_ltf.pu.std.cal
mv f27 scia_02081998_145921596.egse_ltf.pu.std.cal.ps
```

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Wendell Lynch 02081998	
	What's the name of the (main) data input files generated by the EGSE? `(*.dat)`	scia-02081998-145g215g6.dat	(A)
	Setup a three-window configuration on your SUN.		see course descr.

Cnstr directory	`cd ~/DATA-DIR/SPEC-CAL/ ; ls -l`
	highest number in directory?
	New directory: `mkdir <B+1>`
	`ls -l`
	What's now the highest number in directory?
	<C> should be <B> + 1
		6
		
		7
		(Y) / N
			Note: In window DATA-DIR
			(B)
			
			(C)

	directory name is:	~/DATA-DIR/SPECCAL/<7>	(DIR-NAME)
Copy data	See Analysis sheet: Transfer Data File	(Y) / N	In DATA-DIR window
Cnstr EGSE_LTF	`cal_raw2ltf .` (Error messages are not necessarily fatal; check with SOLAN --in solan window-- whether output file is okay: there should be a signal present, and `dremark1` labels should be filled) `ls -l *.egse_ltf` What's the name of the egse_ltf file <D> should be <A>.egse_ltf	scia-02081998-145g215g6.egse.ltf (Y) / N	Note: In window DATA-DIR; ***don't forget the dot !!!;*** *May take more than 15 mins.* (D)
Cnstr CAL files	`idl run_averscia` (and select file <D> when asked)		Note: In window IDL
Check CAL files	Dark files: `ls -l *du*.avg.cal`		In DATA-DIR window
	size:	145.998	should be approx 150kb
	SLS light file:		

Note: dremark1 label starts either with 'su' or with 'pu' (here we have taken the 'su'-case).

`ls -l *su*.avg.cal`

should be approx 150kb

size: 145.998

Note: all files should be present, if not:
(a) Check file <D> using SOLAN and check whether DU, and SU labels are present in dremark1 labels
(b) Check if enough disk space is available (Unix command df -k | more).

Print postscript

`lpr -P<printer>`
`*du*.*.cal.ps`
`*su*.*.cal.ps`

Contents dark file `*du*.avg.cal` should be approx. constant within channels: Y / N

Contents of file `*SU*.avg.cal.ps` should contain peak signals in channels (cannot be seen in channels 7 and 8): Y / N

Contents of `*rel_std*.ps` files should be smaller than 0.01 (pixel 300 -- 800) for all channels. Y / N

If not, value is: _____

Add postscript images to logbook, done Y / N

Print logfiles `lpr -P<printer> *.log`

Add logfiles to logbook, done Y / N

Spec line processing

Run Spec `idl do_spec_cal` In IDL window

Check spec	`ls -l wl.data`		In DATA DIR window should be approx a few kilobytes
	Size of file `wl.data`	927	
Check XSI visually			
	`lpr -P<printer> *.data.ps` Is the value of the spectral calibration approx. a straight line in all channels? (Note: in channel 2: negative slope)	(Y) / N	
	Add postscript images to logbook, done	(Y) / N	
Print logfiles	`lpr -P<printer> *.log`		
	Add logfiles to logbook, done	(Y) / N	
Back up	Create 3 sets of backup CDs of directory <DIR-NAME> (One CD has a capacity of 600 Mbytes, the UNIX command `/usr/bin/du -k .` gives the number of kilo bytes in the current directory).	02 08 98 D	See analysis sheet BackUp
	Name of backup CDs		
Sign:	Name		
	Date and time	2-8	
	Signature		

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Wendell Lynch 07081998	

Backup data	Let <D> be the directory you want to backup.
	`cd <D>`
	`mk_filetr`
	`ls -l | more`
	Are the files l_names and s_names present?
	If not, are you sure that the function `mk_filetr` executed?
	`./s_names`
	ls -l more
	All file names of the form `f<digit>`?
	`lpr -P<printer> s_names l_names`
	Add output to log book, done?
		(Y) / N
		
		(Y) / N
		
		(Y) / N	

	Via ftp on CD-writer PC: copy files in directory <D> (including s_names and s_names) to PC (On PC maintain directory structure of DATA-DIR).	files in directory on PC	
Backup CORR directory	Do always Let <D> be the directory `~/DATA-DIR/CORR`		
	Via ftp on CD-writer PC: copy files in directory <D> to PC (On PC maintain directory structure of DATA-DIR). So, you write the whole contents of the `DATA-DIR/CORR` directory.	files in directory on PC	
Backup:	Write 3CDs (Follow JGS' Gear instructions), Done?	Y / N	
Back up On MOD:	Copy (via FTP) data from SUN named `scia6` to SUN named `tpdezo`.		

Instructions printed + masking tape

Copy to MOD (Follow instructions in file `/home/drz/DOC/MOD*`) Note, normally, you don't have to mount the MOD. Update

Copy contents of one CD (or via ftp) on the two other SUN workstations that are used for offline analysis, Done? Y / N

Sign:

Name JOS

Date and time 2-8-1998

Signature

Transfer Data File

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Wendell Lynch 02081998	
	What's the name of the (main) data input files that you want to store on the SUN named `scia6`?	scia-02081998-45921596.dat	(A)
	Setup a three-window configuration on your SUN.		See course descr.
Do Transfer	Be sure that you are in the directory you want your files in ftp <internet-address>, where you can find the address of the PC in the file `/etc/hosts` (entry: cdwpc). The address will also be next to you on paper (most probably). When asked for user, fill in: `anonymous`, when asked for an email address, fill in your email address on TPD. Set in binary: `binary` `mget *` (and return `y` to every file). `bye`		In DATA-DIR window In DATA window ~~Approx.~~ 140 kB
Sign:	Name Date and time Signature	Wendell Lynch 02081998 16.15	

Pagenumber:

LOG SHEET SCIAMACHY CALIBRATION

date/time	description of action	measuremement filename
020897	18:49 (UTC) Fel lamp F 455 Dismounted	
	19:00 (UTC) Diffuser clisMounted	
Stap 3		
	Set up lowered to Limb ~~Hergth~~ height	
	19:30 (UTC) Diffuser Mounted	
	at Minimum distance alligened FOUT	SUKKELS !

Request for Modification		(cross out entries that are not requested.)
Request for Run	X	(fill in only entries to be modified)
		(no entries = run based on actual default settings)

Scanner Positions

Azimuth	+45	deg
Elevation	+10,523	deg

Timeline for each Data Acquisition Period during Measurement

	1	2	3	4	5	6	7	8	9	10
State ID	44	45								
Repetitions	1	1								

State Parameters for States used in Timeline (State ID must be given)

Channel	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding
1a	4	1						
1b	4	1						
2b	0,5	8						
2a	0,5	8						
3	0,125	32						
4	0,0625	64						
5	0,0625	64						
6	H8	64						
7	H7	64						
8	H8	64						
State ID								

Stimuli Settings for Existing Blocks in Measurement

Block No	Stimuli Setup ID	PPC [deg]	Polarizer [deg]	Shutter open/close	Acquisition Time [s]	Lambda [nm] Start	Stop	Step	Repetition Factor	Message	OS Setup Time [s]
	1									RU	

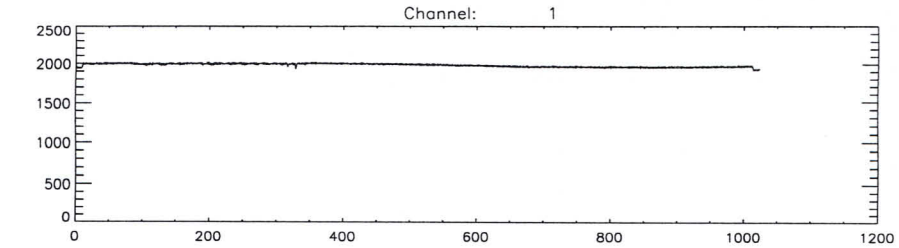
Measurement Data Description

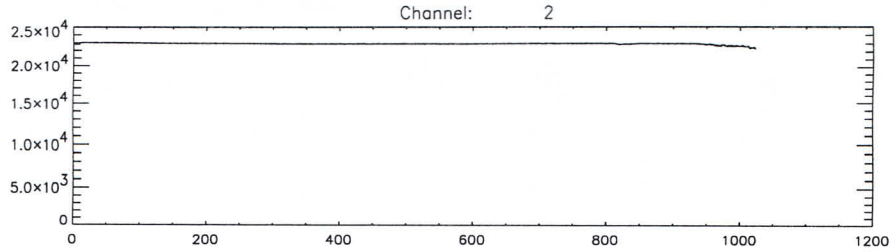
Test Purpose	
Remark	U1025
Data Directory	0214-20.52.06-

Signatures

	Date	Signature
Issued	02-08-98	MStopp
< Performed	2-8-98	

WLS_INT


Channel: 1
2500
2000
1500
1000
500
0
0
200
400
600
800
1000
1200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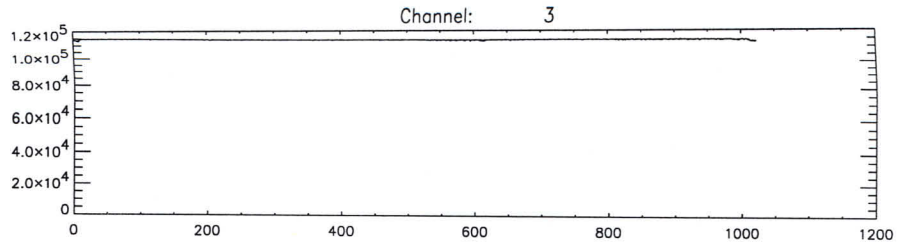
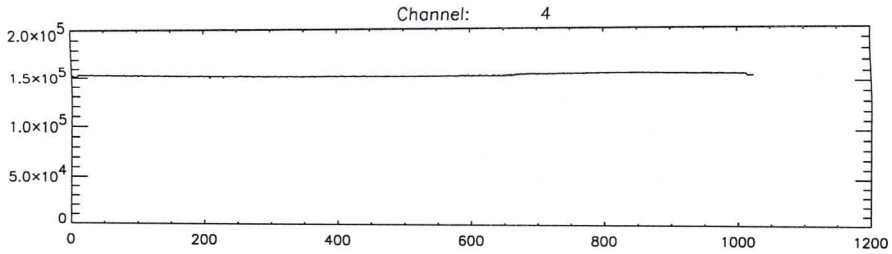
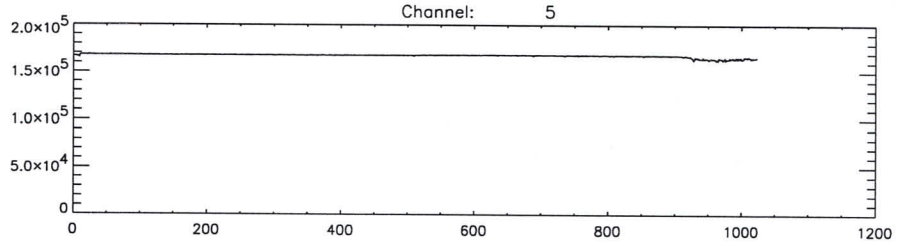
2.5x10^4
2.0x10^4
1.5x10^4
1.0x10^4
5.0x10^3
0
0
200
400
600
800
1000
1200


Channel: 3
1.2x10^5
1.0x10^5
8.0x10^4
6.0x10^4
4.0x10^4
2.0x10^4
0
0
200
400
600
800
1000
1200


Channel: 4
2.0x10^5
1.5x10^5
1.0x10^5
5.0x10^4
0
0
200
400
600
800
1000
1200


Channel: 5
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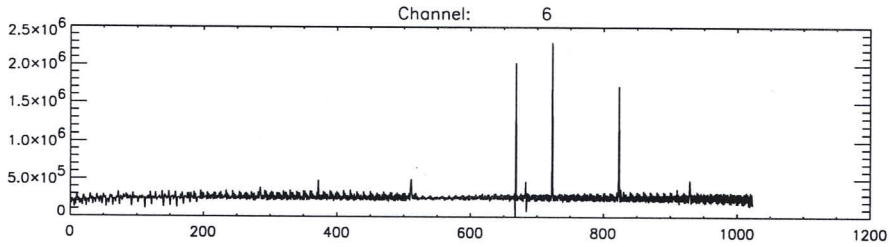
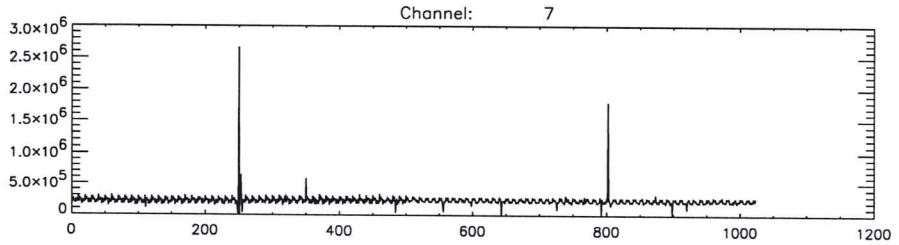
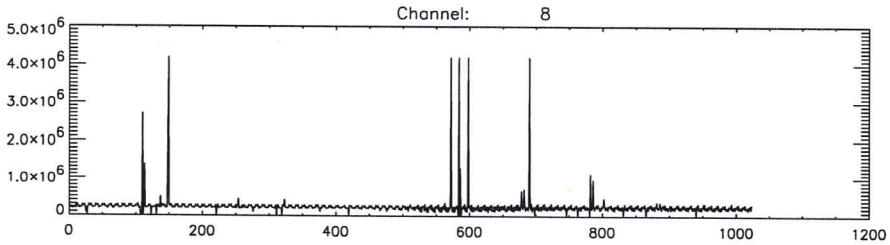
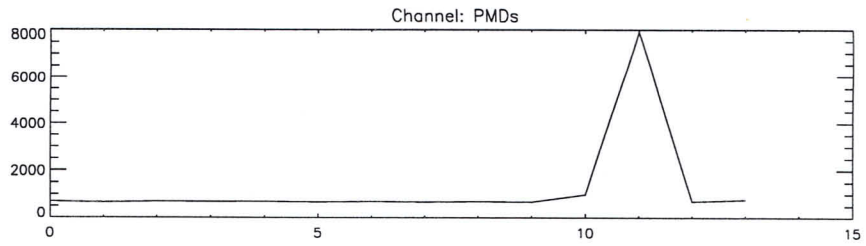
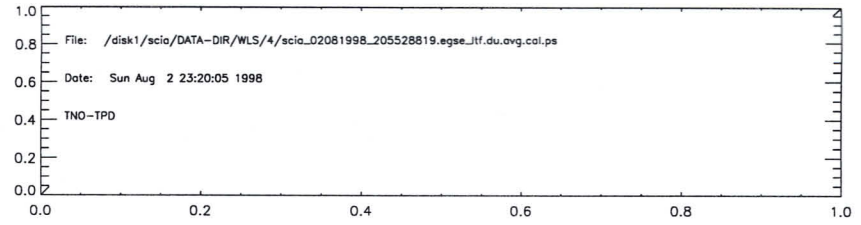
1.5x10^5
1.0x10^5
5.0x10^4
0
0
200
400
600
800
1000
1200

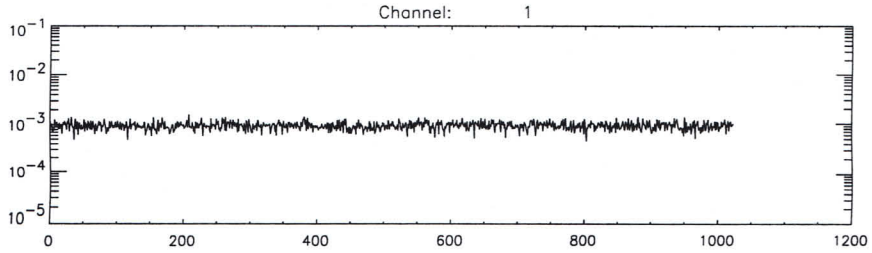

Channel: 6
2.5x10^6
2.0x10^6
1.5x10^6
1.0x10^6
5.0x10^5
0
0
200
400
600
800
1000
1200

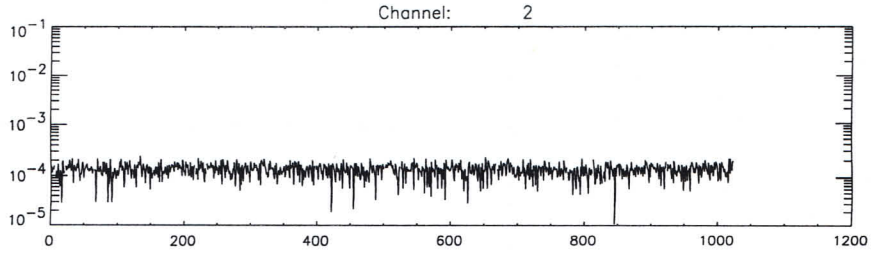

Channel: 7
3.0x10^6
2.5x10^6
2.0x10^6
1.5x10^6
1.0x10^6
5.0x10^5
0
0
200
400
600
800
1000
1200

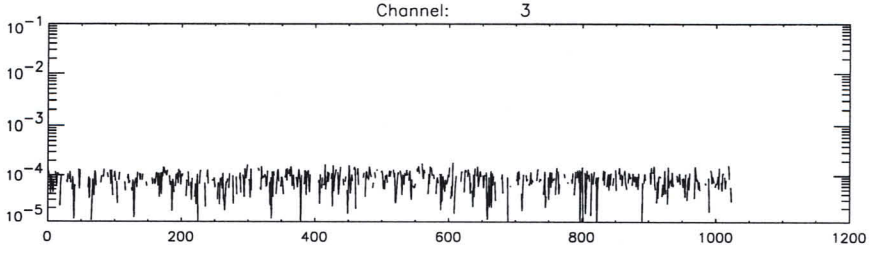

Channel: 8
5.0x10^6
4.0x10^6
3.0x10^6
2.0x10^6
1.0x10^6
0
0
200
400
600
800
1000
1200

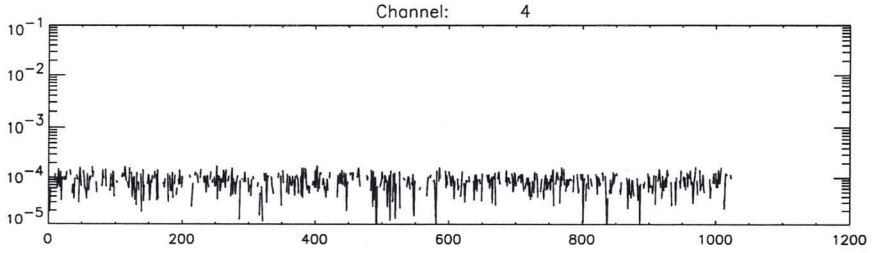

Channel: PMDs
8000
6000
4000
2000
0
0
5
10
15

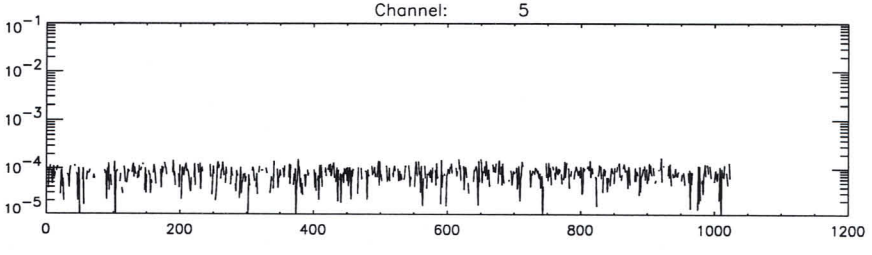

File: /disk1/scia/DATA-DIR/WLS/4/scia_02081998_205528819.egse_itf.du.avg.cal.ps
Date: Sun Aug 2 23:20:05 1998
TNO-TPD
1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0

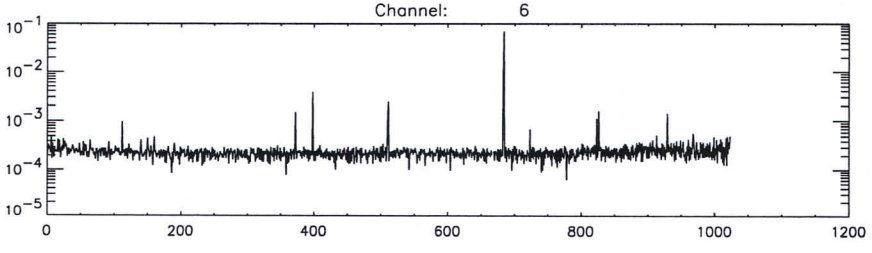

Channel: 1

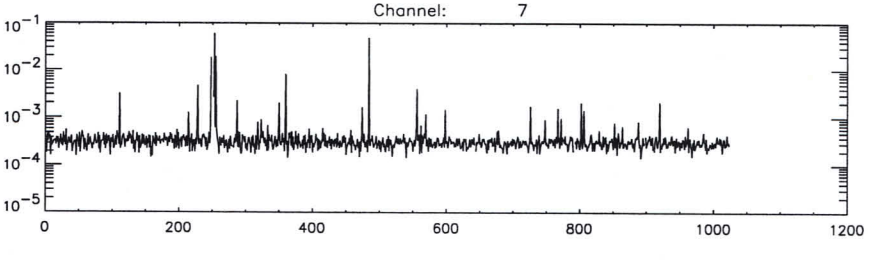

Channel: 2

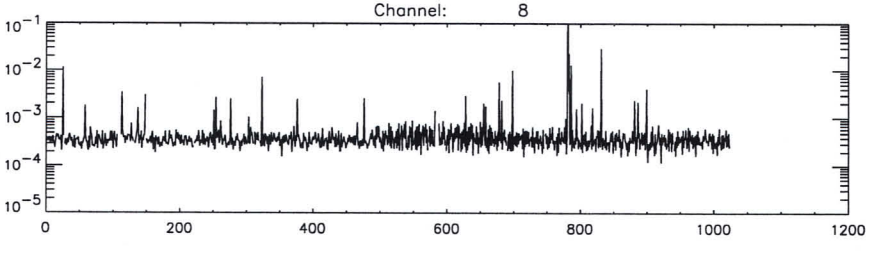

Channel: 3

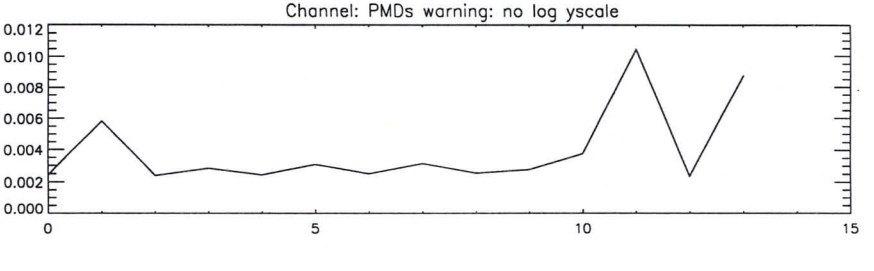

Channel: 4

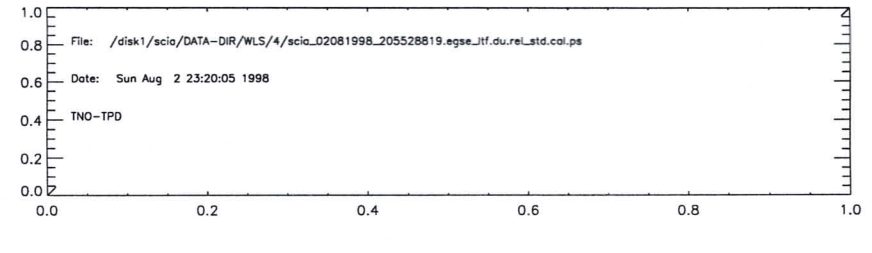

Channel: 5

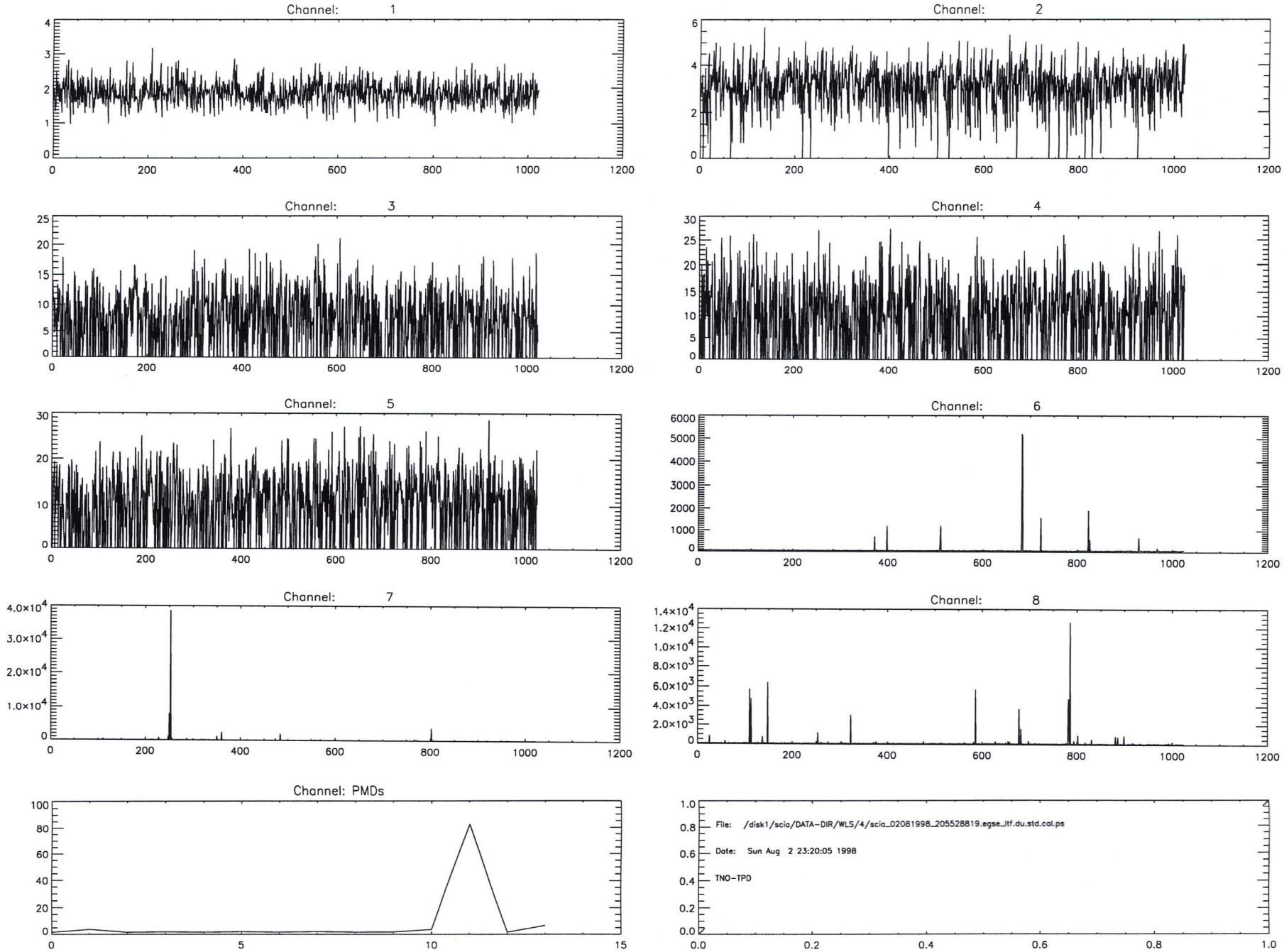

Channel: 6

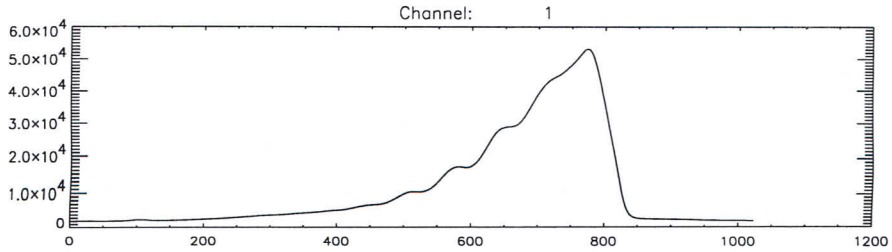

Channel: 7


Channel: 8


Channel: PMDs warning: no log yscale


File: /disk1/scia/DATA-DIR/WLS/4/scia_02081998_205528819.egse_itf.du.rel_std.cal.ps
Date: Sun Aug 2 23:20:05 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/WLS/4/scia_02081998_205528819.egse_itf.du.std.cal.ps
Date: Sun Aug 2 23:20:05 1998
TNO-TPD


Channel: 1
6.0x10^4
5.0x10^4
4.0x10^4
3.0x10^4
2.0x10^4
1.0x10^4
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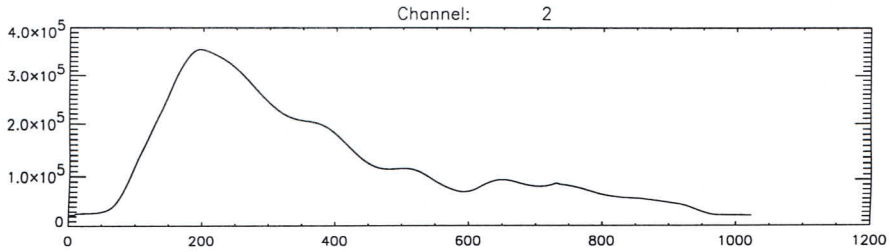
200
400
600
800
1000
1200


Channel: 2
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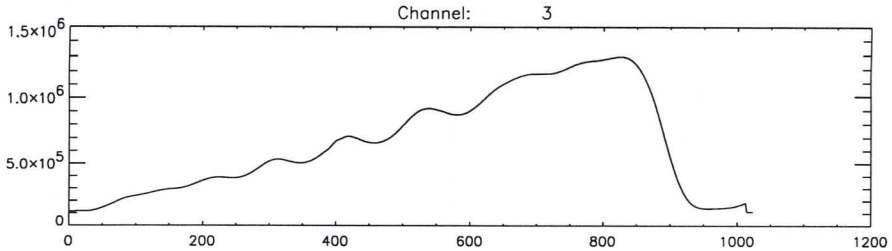
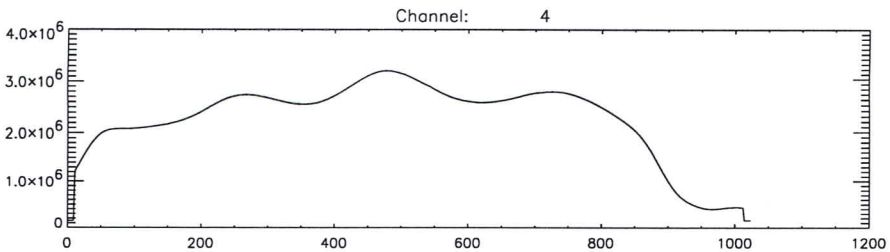
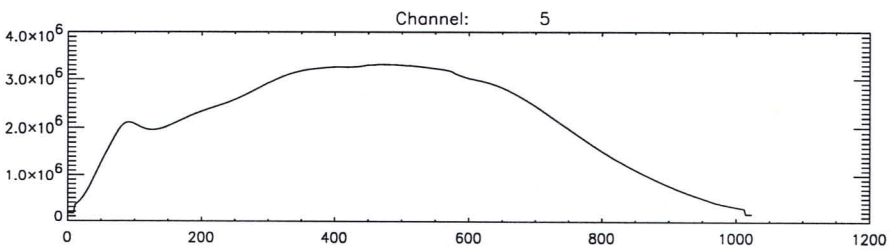
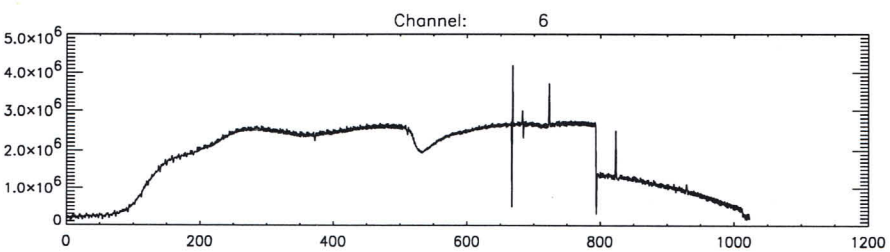
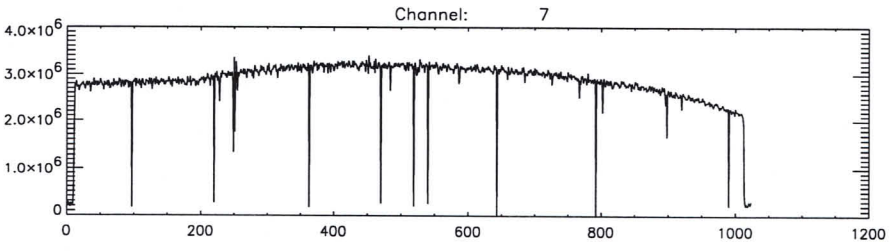
3.0x10^5
2.0x10^5
1.0x10^5
0
0
200
400
600
800
1000
1200

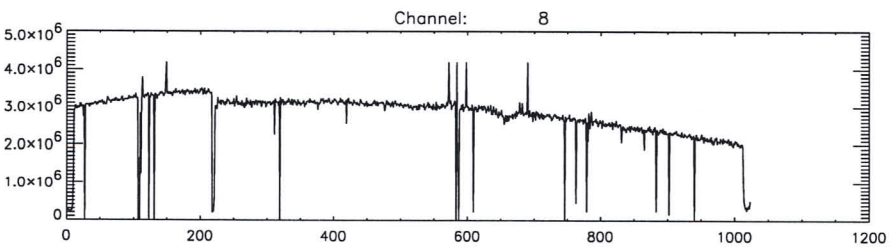

Channel: 3
1.5x10^6
1.0x10^6
5.0x10^5
0
0
200
400
600
800
1000
1200

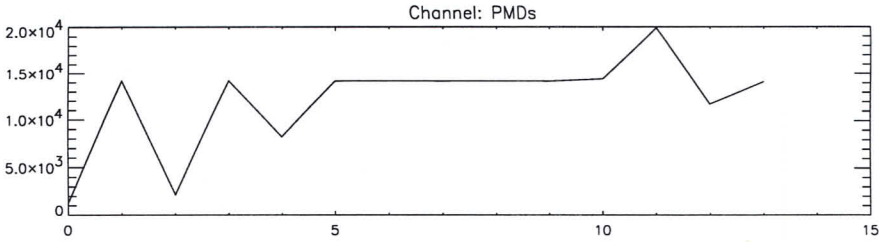

Channel: 4
4.0x10^6
3.0x10^6
2.0x10^6
1.0x10^6
0
0
200
400
600
800
1000
1200

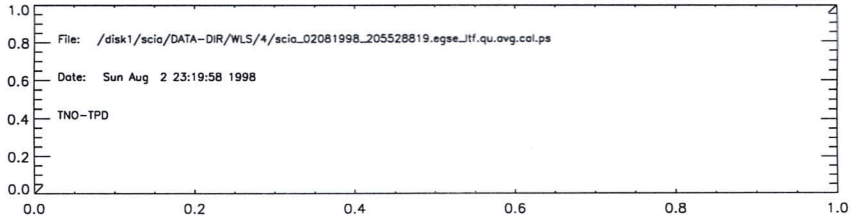

Channel: 5
4.0x10^6
3.0x10^6
2.0x10^6
1.0x10^6
0
0
200
400
600
800
1000
1200

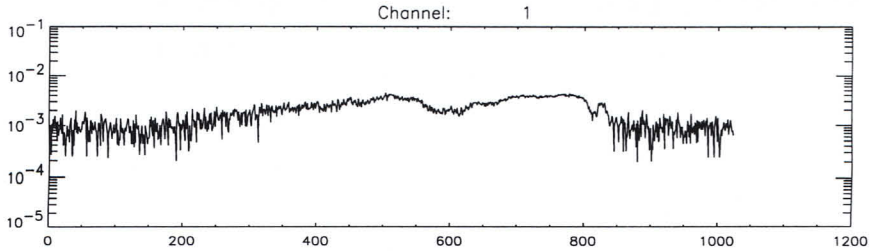

Channel: 6
5.0x10^6
4.0x10^6
3.0x10^6
2.0x10^6
1.0x10^6
0
0
200
400
600
800
1000
1200

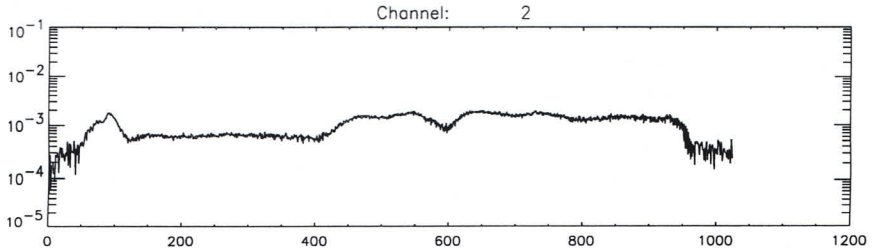

Channel: 7
4.0x10^6
3.0x10^6
2.0x10^6
1.0x10^6
0
0
200
400
600
800
1000
1200

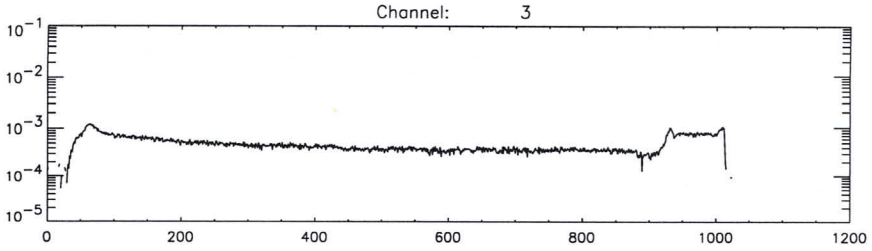

Channel: 8
5.0x10^6
4.0x10^6
3.0x10^6
2.0x10^6
1.0x10^6
0
0
200
400
600
800
1000
1200

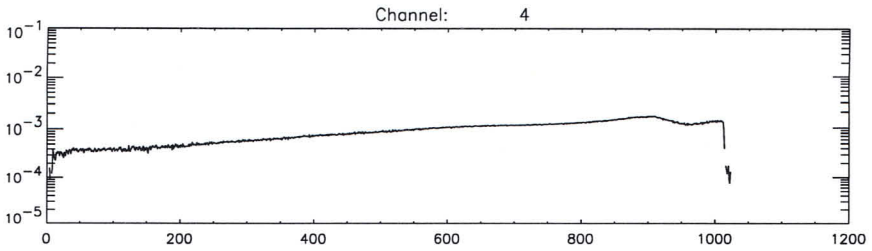

Channel: PMDs
2.0x10^4
1.5x10^4
1.0x10^4
5.0x10^3
0
0
5
10
15

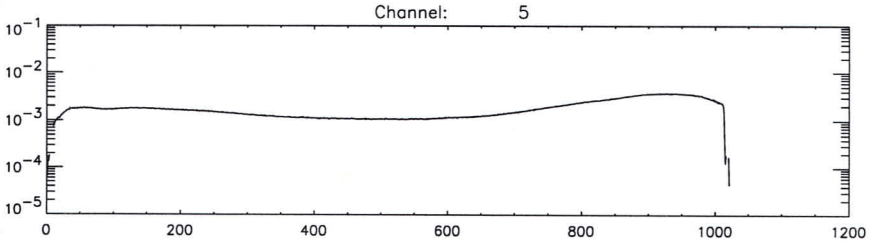

1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0
File: /disk1/scia/DATA-DIR/WLS/4/scia_02081998_205528819.egse_jtf.qu.avg.col.ps
Date: Sun Aug 2 23:19:58 1998
TNO-TPD

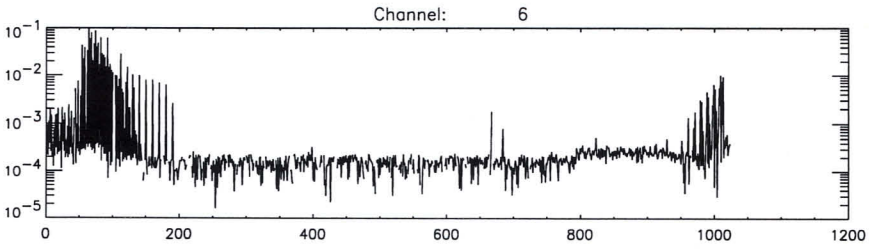

Channel: 1

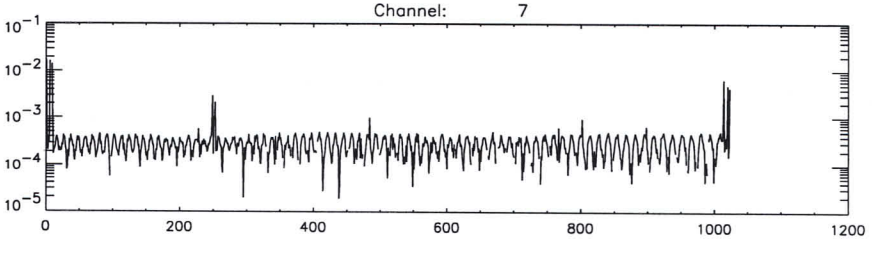

Channel: 2

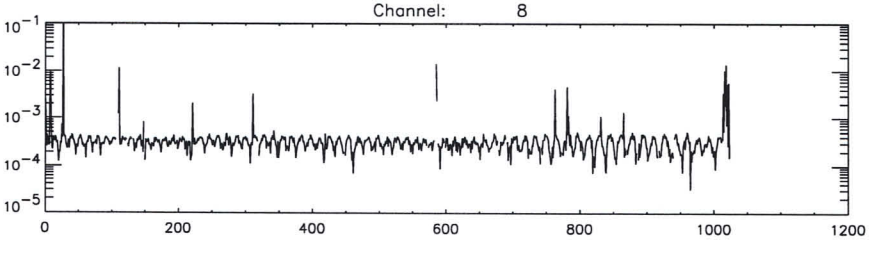

Channel: 3

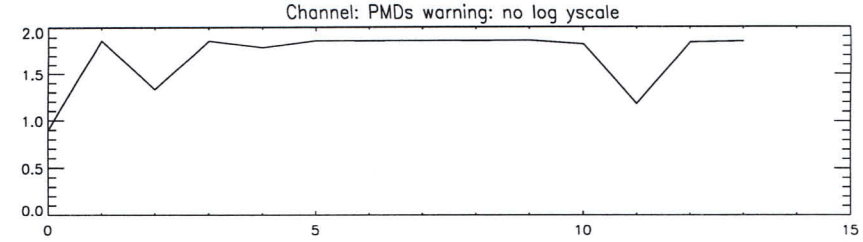

Channel: 4

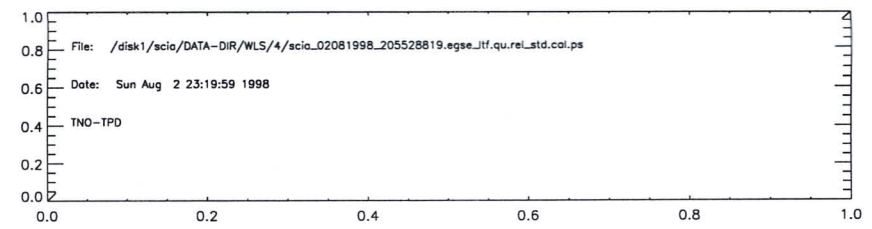

Channel: 5

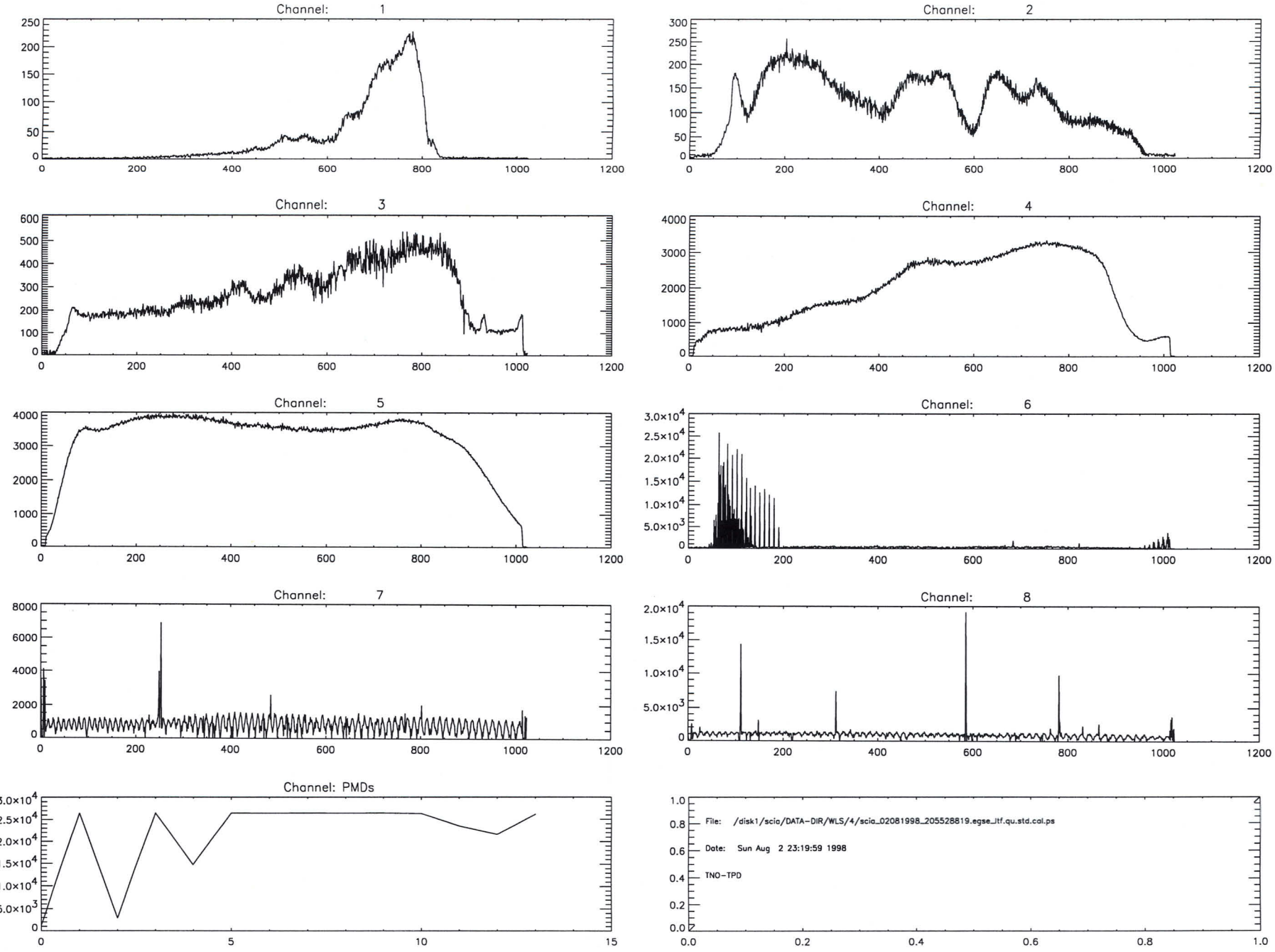

Channel: 6


Channel: 7

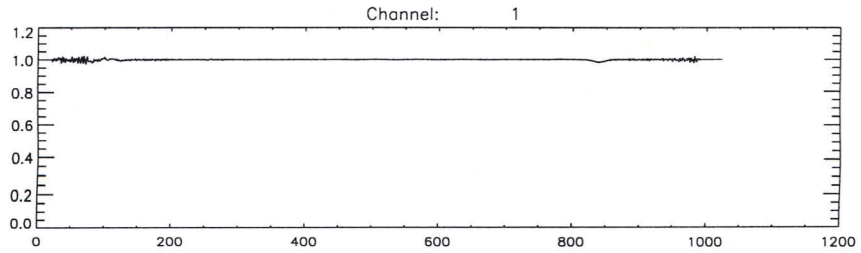

Channel: 8

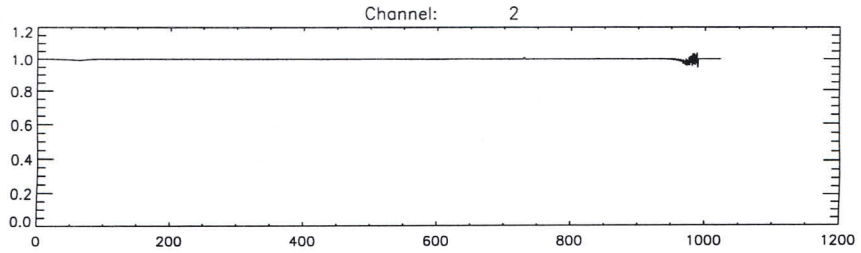

Channel: PMDs warning: no log yscale

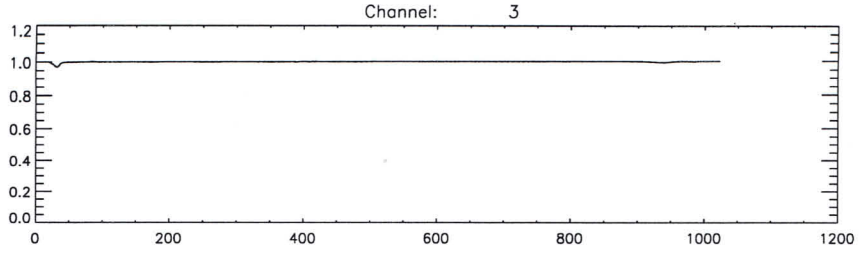

File: /disk1/scia/DATA-DIR/WLS/4/scia_02081998_205528819.egse_itf.qu.rei_std.cal.ps
Date: Sun Aug 2 23:19:59 1998
TNO-TPD

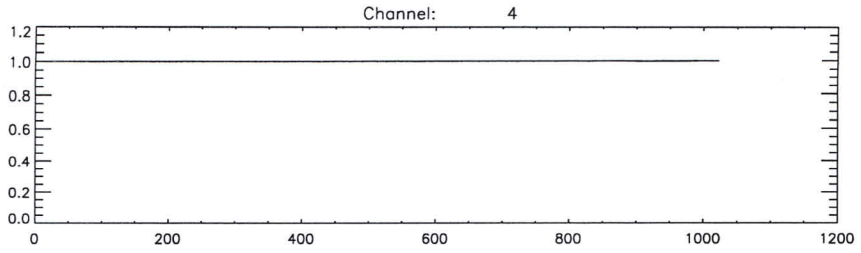

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/WLS/4/scia_02081998_205528819.egse_itf.qu.std.cal.ps
Date: Sun Aug 2 23:19:59 1998
TNO-TPD

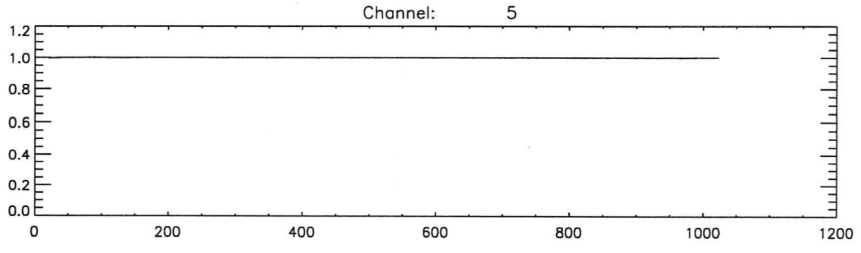
```
time       = Sun Aug  2 23:20:05 1998
batch      = du
Start TOD  = Sun 02-Aug-98 20:55:54
End   TOD  = Sun 02-Aug-98 20:56:54
Processing= computation of average, standard dev. and rel.standard dev.
```

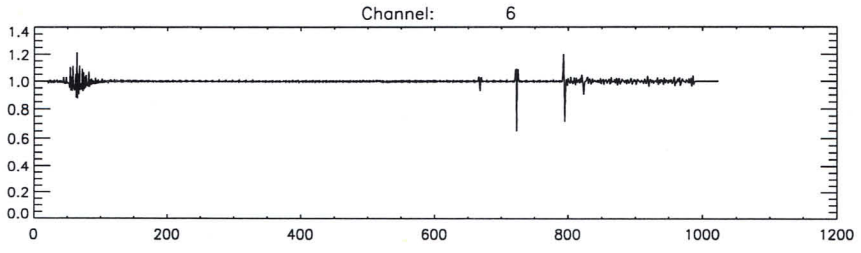

Channel: 1

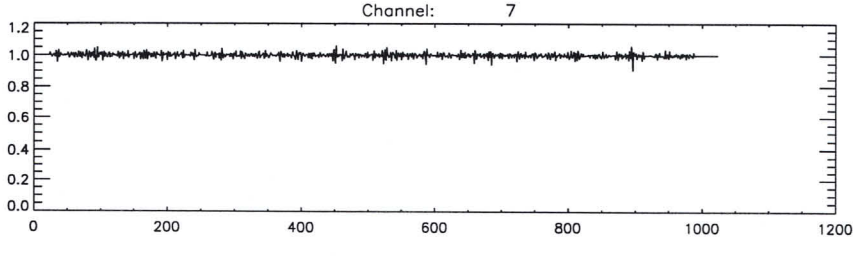

Channel: 2

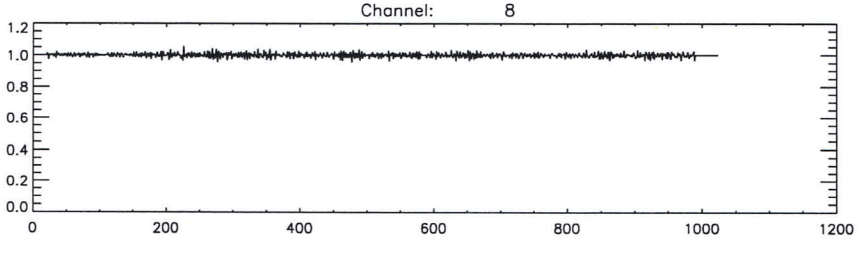

Channel: 3

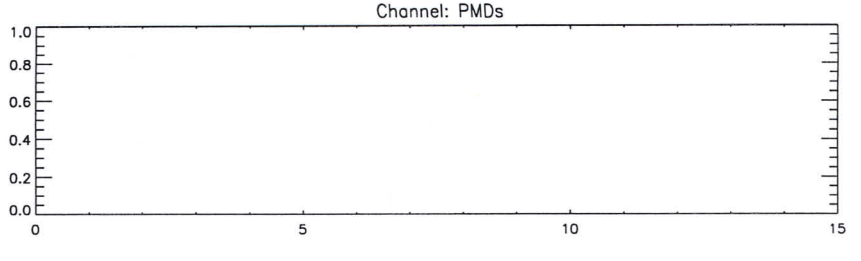

Channel: 4

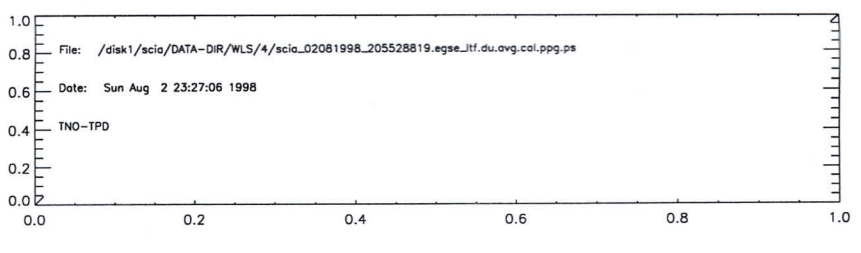

Channel: 5


Channel: 6


Channel: 7


Channel: 8


Channel: PMDs


File: /disk1/scia/DATA-DIR/WLS/4/scia_02081998_205528819.egse_itf.du.avg.col.ppg.ps
Date: Sun Aug 2 23:27:06 1998
TNO-TPD

```
time       = Sun Aug  2 23:19:59 1998
batch      = qu
Start TOD  = Sun 02-Aug-98 20:55:28
End   TOD  = Sun 02-Aug-98 20:55:54
Processing= computation of average, standard dev. and rel.standard dev.
```

Version: 0.1
Input files:

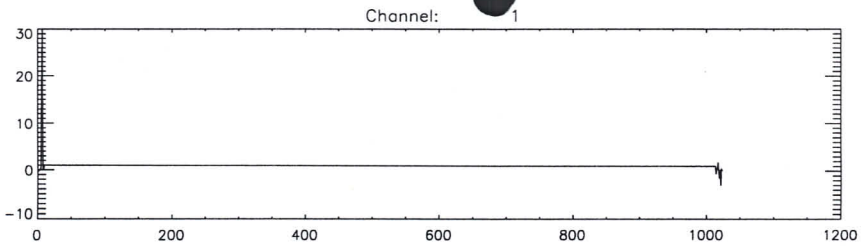
/disk1/scia/DATA-DIR/WLS/4/scia_02081998_205528819.egse_ltf.du.avg.cal and

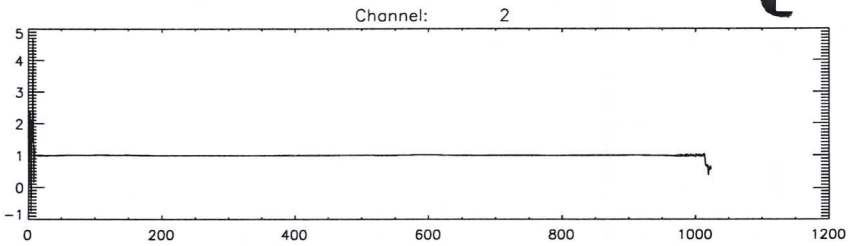
/disk1/scia/DATA-DIR/WLS/4/scia_02081998_205528819.egse_ltf.qu.avg.cal
Action: Computation of Pixel to pixel gain
Processing time: Sun Aug 2 23:27:06 1998
Output file name:
/disk1/scia/DATA-DIR/WLS/4/scia_02081998_205528819.egse_ltf.du.avg.cal.ppg.cal

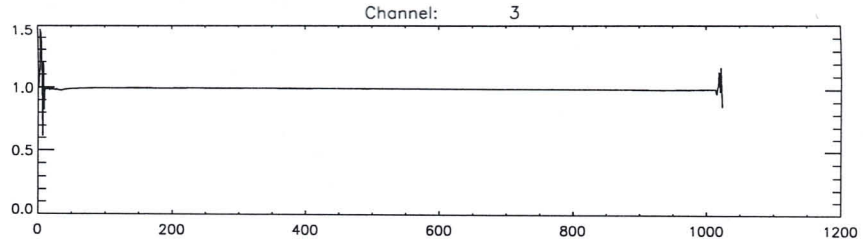
Version: 0.1
Input files:

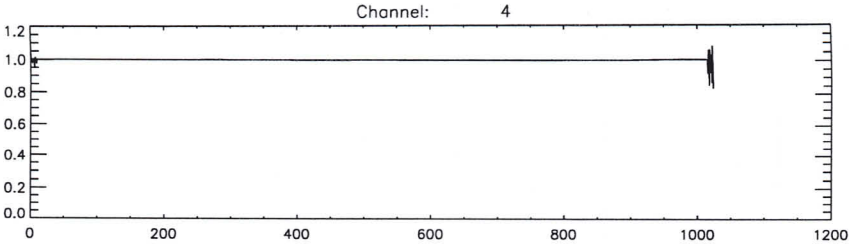
/disk1/scia/DATA-DIR/WLS/4/scia_02081998_205528819.egse_ltf.du.avg.cal and

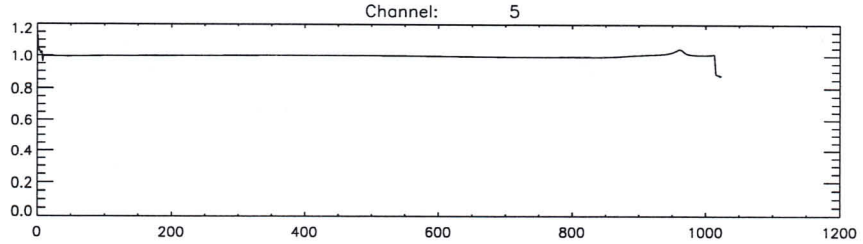
/disk1/scia/DATA-DIR/WLS/4/scia_02081998_205528819.egse_ltf.qu.avg.cal
Action: Pixel to pixel gain: postscript file
Processing time: Sun Aug 2 23:27:06 1998
Output file name:
/disk1/scia/DATA-DIR/WLS/4/scia_02081998_205528819.egse_ltf.du.avg.cal.ppg.ps

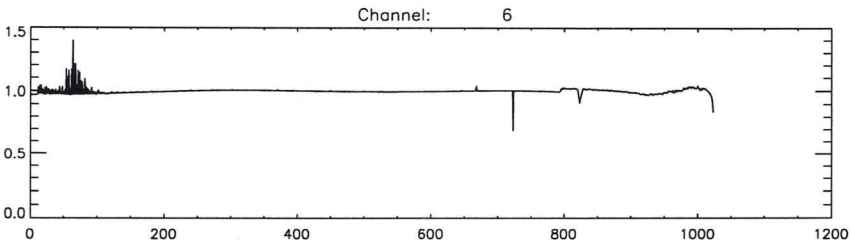

Channel: 1

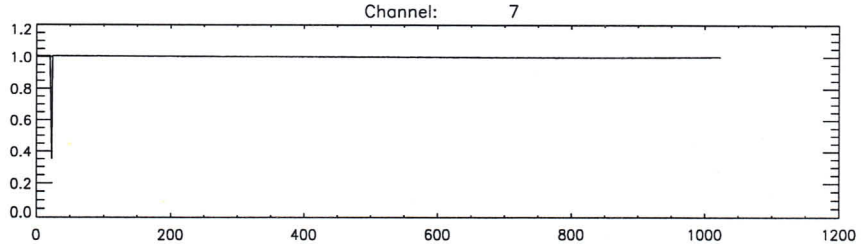

Channel: 2

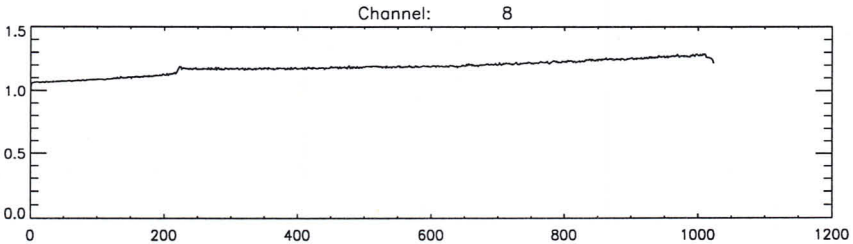

Channel: 3

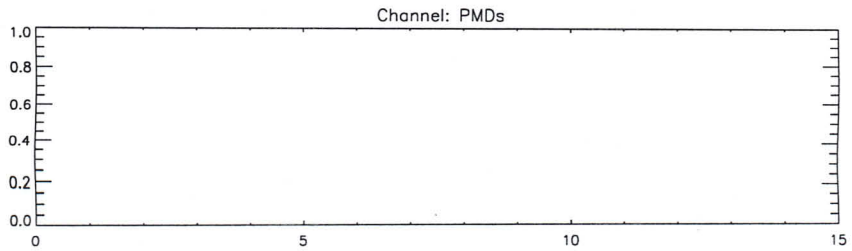

Channel: 4

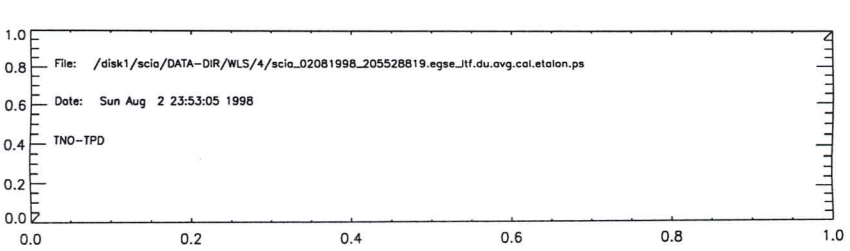

Channel: 5


Channel: 6


Channel: 7


Channel: 8


Channel: PMDs


File: /disk1/scia/DATA-DIR/WLS/4/scia_02081998_205528819.egse_itf.du.avg.cal.etalon.ps
Date: Sun Aug 2 23:53:05 1998
TNO-TPD

Version: 0.1
Input files:

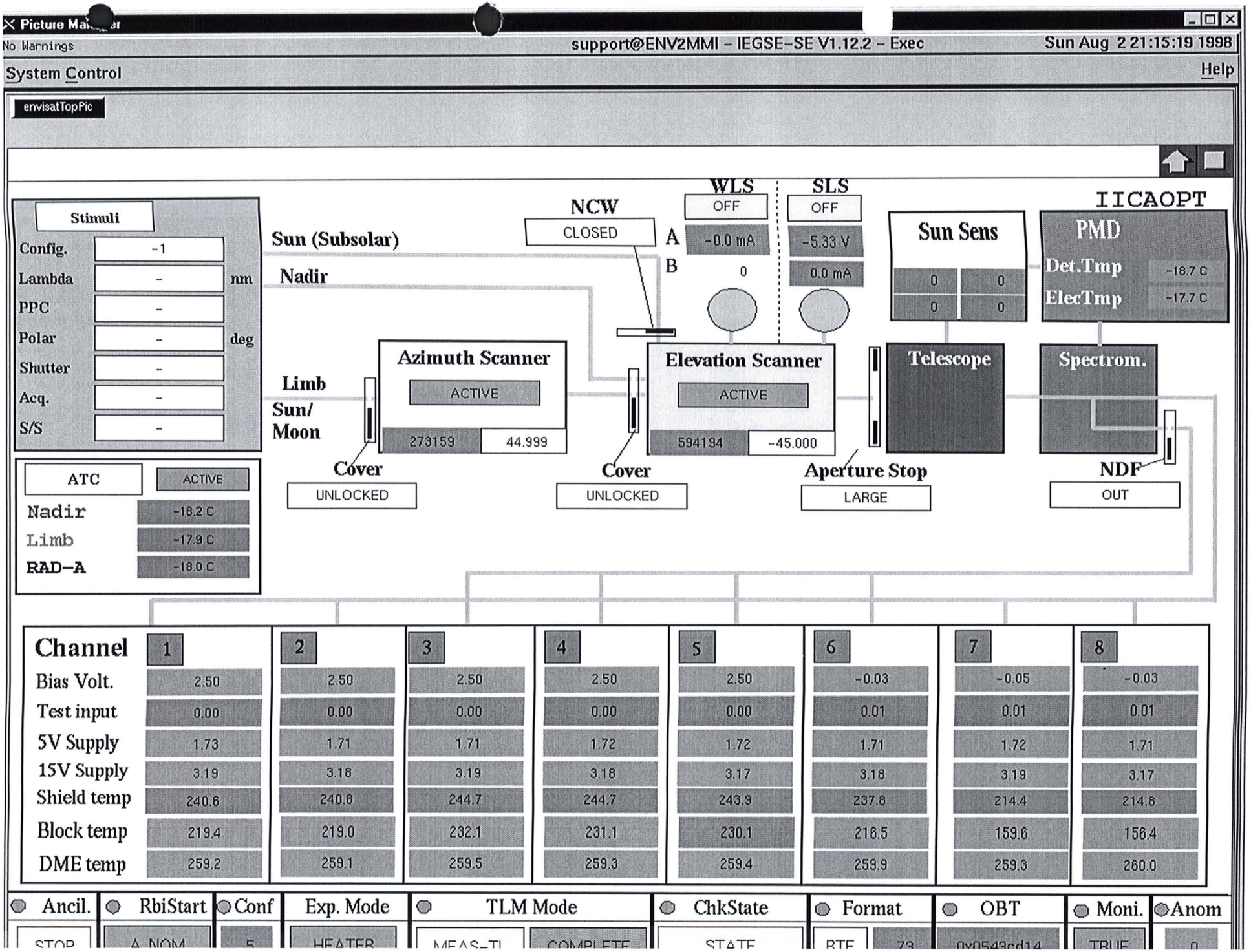
/disk1/scia/DATA-DIR/WLS/4/scia_02081998_205528819.egse_ltf.du.avg.cal and

/disk1/scia/DATA-DIR/WLS/4/scia_02081998_205528819.egse_ltf.qu.avg.cal
Action: Extraction of etalon structure
Processing time: Sun Aug 2 23:52:52 1998
Output file name:
/disk1/scia/DATA-DIR/WLS/4/scia_02081998_205528819.egse_ltf.du.avg.cal.etalon.

Version: 0.1
Input files:

/disk1/scia/DATA-DIR/WLS/4/scia_02081998_205528819.egse_ltf.du.avg.cal and

/disk1/scia/DATA-DIR/WLS/4/scia_02081998_205528819.egse_ltf.qu.avg.cal
Action: Extraction of etalon structure: postscript file
Processing time: Sun Aug 2 23:53:05 1998
Output file name:
/disk1/scia/DATA-DIR/WLS/4/scia_02081998_205528819.egse_ltf.du.avg.cal.etalon.


Picture Manager
No Warnings
support@ENV2MMI – IEGSE-SE V1.12.2 – Exec
Sun Aug 2 21:15:19 1998
System Control
Help
envisatTopPic
Stimuli
Config. -1
Lambda - nm
PPC -
Polar - deg
Shutter -
Acq. -
S/S -
Sun (Subsolar)
Nadir
Limb
Sun/
Moon
NCW
CLOSED
A
B
WLS
OFF
-0.0 mA
0
SLS
OFF
-5.33 V
0.0 mA
Sun Sens
0 0
0 0
IICAOPT
PMD
Det.Tmp -18.7 C
ElecTmp -17.7 C
Azimuth Scanner
ACTIVE
273159 44.999
Elevation Scanner
ACTIVE
594194 -45.000
Telescope
Spectrom.
Cover
UNLOCKED
Cover
UNLOCKED
Aperture Stop
LARGE
NDF
OUT
ATC ACTIVE
Nadir -18.2 C
Limb -17.9 C
RAD-A -18.0 C
Channel 1 2 3 4 5 6 7 8
Bias Volt. 2.50 2.50 2.50 2.50 2.50 -0.03 -0.05 -0.03
Test input 0.00 0.00 0.00 0.00 0.00 0.01 0.01 0.01
5V Supply 1.73 1.71 1.71 1.72 1.72 1.71 1.72 1.71
15V Supply 3.19 3.18 3.19 3.18 3.17 3.18 3.19 3.17
Shield temp 240.6 240.8 244.7 244.7 243.9 237.8 214.4 214.8
Block temp 219.4 219.0 232.1 231.1 230.1 216.5 159.6 156.4
DME temp 259.2 259.1 259.5 259.3 259.4 259.9 259.3 260.0
Ancil.
STOP
RbiStart
A_NOM
Conf
5
Exp. Mode
HEATER
TLM Mode
MEAS_TL
COMPLETE
ChkState
STATE
Format
RTE
OBT
TRUE
Moni.
Anom
0

STEP	ACTION	RESULT	MARKER
Intro	Your name:	Sander Derksen	
	Date:	02-08-1998	
	What's the name of the (main) data input files generated by the EGSE? (*.dat)	scia_02081998_20552881g	(A)
	Setup a three-window configuration on your SUN.		See course descr.
Cnstr directory	`cd ~/DATA-DIR/WLS ; ls -l`		Note: In window DATA-DIR
	highest number in directory?	3	(B)
	New directory: `mkdir <B+1>` `ls -l` What's now the highest number in directory? <C> should be <B> + 1	4	(C)
		(Y) / N	
	directory name is:	`~/DATA-DIR/WLS/<C>`	(DIR-NAME)
Copy data	See Analysis sheet: Transfer Data File	(Y) / N	In DATA-DIR window
Cnstr correction directory	`ls -l ~/DATA-DIR/CORR` If there isn't a subdirectory corresponding to the current date, then construct a CORRECTION directory (see: analysis sheet Construct CORR directory). What is the valueof the correction subdirectory corresponding to the current date. When running the PPG analysis, you will be asked to select this direcotory when storing the resulting PPG correction file.	020898	In DATA-DIR window

Note: In window DATA-DIR; your current directory should be ~/DATA-DIR/WLS/<C>; don't forget the dot !!! May take more than 15 mins.

Cnstr EGSE_LTF

`cal_raw2ltf .` (Error messages are not necessarily fatal; check with SOLAN --in solan window-- whether output file is okay: there should be a signal present, and `dremark1` labels should be filled)
`ls -l *.egse_ltf`

What's the name of the egse_ltf file Scia_02081998_20552881g (D)

`<D> should be <A>.egse_ltf` (Y) / N

Cnstr CAL files

`idl run_averscia` (and select file <D> when asked)

Note: In window IDL

Check CAL files

Dark files:
`ls -l *du*.avg.cal`

size: 145998 should be approx 150Kb

White light file:
`ls -l *.wu*.avg.cal`

size: 145998 should be approx 150Kb

Note: all files should be present, if not:
(a) Check file <D> using SOLAN and check whether DU, WS and WP labels are present in dremark1 labels
(b) Check if enough disk space is available (Unix command `df -k | more`).

Print postscript

Print postscript files:
`lpr -P<printer> *.ps`
Contents dark file `*du*.avg.cal.ps` should be approx. constant within channels: (Y) / N

Contentsof file `*wu*.avg.cal.ps` should resemble white light source: (Y) / N
Contents of `*rel_std*.ps` files should be smaller than 0.01 (pixel 300 -- 800) for all channels. (Y) / N

If not, value is: _____

Add postscript images to logbook, done (Y) / N

Print logfiles `lpr -P<printer> *.log`
Add logfiles to logbook, done (Y) / N

PPG processing — marker is niet goed !!

Run PPG `idl do_ppg` — In IDL window

Check PPG `ls -l *` — In DATA-DIR Window should be approx 150Kb

Size of file `*.du*.cal.ppg.cal` 145998

Size of file `*.du*.cal.ppg.log` 360

Size of file `*.du*.cal.ppg.~~cal~~.ps` 145939

Check PPG visually `lpr -P<printer> *.du*.cal.ppg.~~cal~~.ps`
Value of PPG should show only a small variation around 1.0 (like noise). (Y) / N — Flanken vertonen grote gradienten
Add postscript images to logbook, done (Y) / N

Print logfiles `lpr -P<printer> *.du*.cal.ppg.cal.log`
Add logfiles to logbook, done (Y) / N

Back up — Create 3 sets of backup CDs of directory <DIR-NAME> (One CD has a capacity of 600 Mbytes, the UNIX command `/usr/bin/du -k .` gives the number of kilo bytes in the current directory). — See analysis sheet BackUp

Name of backup CDs _____

Sign: Name _____

Date and time _____

Signature _____

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Sander Derksen 02-08-1998	
	What's the name of the (main) data input files generated by the EGSE? (*.dat)	scia_02081998_20552881g	(A)
	Setup a three-window configuration on your SUN.		See course descr.
Cnstr directory	`cd ~/DATA-DIR/WLS ; ls -l` highest number in directory?	3	Note: In window DATA-DIR (B)
	zelfde als PPG meting		(Do this only when you haven't already a directory with the source file for PPG purposes.)
	New directory: `mkdir <B+1>` `ls -l` What's now the highest number in directory? <C> should be <B> + 1 directory name is:	4 (Y)/N ~/DATA-DIR/WLS/<C>	(C) (DIR-NAME)
Copy data	See Analysis sheet: Transfer Data File	(Y)/N	In DATA-DIR window
Cnstr correction directory	`ls -l ~/DATA-DIR/CORR` If there isn't a subdirectory corresponding to the current date, then construct a CORRECTION directory (see: analysis sheet Construct CORR directory). What is the valueof the correction subdirectory corresponding to the current date.	02081998	In DATA-DIR Window
	When running the ETALON analysis, you will be asked to select this direcotory when storing the resulting ETALON correction file.		

Note: In window DATA-DIR; your current directory should be ~/DATA-DIR/WLS/<C >; don't forget the dot !!! May take more than 15 mins.

Cnstr EGSE_LTF

`cal_raw2ltf .` (Error messages are not necessarily fatal; check with SOLAN --in solan window-- whether output file is okay: there should be a signal present, and `dremark1` labels should be filled)
`ls -l *.egse_ltf`

What's the name of the egse_ltf file SCia_02081998_205528819 (D)

`<D>` should be `<A>.egse_ltf` (Y) N

Cnstr CAL files

`idl run_averscia` (and select file <D> when asked)

Note: In window IDL

In DATA-DIR window

Check CAL files

Dark files:
`ls -l *du*.avg.cal`

size: zie PPG sheet

should be approx 150Kb

White light file:
`ls -l *wu*.avg.cal`

size: zie PPG sheet

should be approx 150Kb

Note: all files should be present, if not:
(a) Check file <D> using SOLAN and check whether DU, WS and WP labels are present in dremark1 labels
(b) Check if enough disk space is available (Unix command `df -k | more`).

Print postscript

Print postscript files:
`lpr -P<printer> *.ps`
Contents dark file `*du*.avg.cal.ps` should be approx. constant within channels: (Y) N

Contents of file `*uw*.avg.cal.ps` should resemble white light source: (Y) N

	Contents of `*rel_std*.ps` files should be smaller than 0.01 (pixel 300 -- 800) for all channels. If not, value is:	Y / N _____
	Add postscript images to logbook, done	Y / N
Print logfiles	`lpr -P<printer> *.log` Add logfiles to logbook, done	Y / N

ETALON processing

Run ETALON	`idl do_etalon`		In IDL window
Check ETALON	`ls -l <DIR-NAME>/*`		In DATA-DIR window should be approx 150Kb
	Size of file `*.du*.avg.cal.etalon.cal`	1450198	
Check ETALON visually	`lpr -P<printer> *.du*.avg.cal.etalon.cal.ps` Value of ETALON should show only a small variation around 1.0 (like noise).	Y / N	
	Add postscript images to logbook, done	Y / N	
Print logfiles	`lpr -P<printer> *.du*.avg.cal.etalon.cal.log` Add logfiles to logbook, done	Y / N	

This ~~an~~ step has been rerun by A.Bos 030898 (05:15 UTC) in order to cope with ~~the increased~~ warm Dm temperatures (previous etalk steps were done with old Dm temperatures).

Back up	Create 3 sets of backup CDs of directory <DIR-NAME> (One CD has a capacity of 600 Mbytes, the UNIX command `/usr/bin/du -k .` gives the number of kilo bytes in the current directory). Name of backup CDs	020898E	See analysis sheet BackUp

Sign: Name _____

Date and time _____

Signature _____

Formal Run of Measurement

(Measurement ID) GEN_LIMB

Request for Actual Status		(cross out entries that are **not** requested.)
Request for Modification		(fill in only entries to be modified)
Request for Run	X	(no entries = run based on actual default settings)

Scanner Positions

Azimuth	-45,00	deg ✓
Elevation	-12,70	deg ✓

Timeline for each Data Acquisition Period during Measurement

	1	2	3	4	5	6	7	8	9	10
State ID	37									
Repetitions	10									

State Parameters for States used in Timeline (State ID must be given)

Channel	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding
1a	64	1						
1b	64	1						
2b	8	8						
2a	8	8						
3	1	64						
4	0,5	64						
5	0,5	64						
6	0,125	64						
7	0,5	64						
8	1	64						
State ID								

Stimuli Settings for Existing Blocks in Measurement

Block No	Stimuli Setup ID	PPC [deg]	Polarizer [deg]	Shutter open/close	Acquisition Time [s]	Lambda [nm] Start	Stop	Step	Repetition Factor	Message	OS Setup Time [s]
1	0							0	1	RU1	10
2	0							0	1	DU1	0

Measurement Data Description

Test Purpose	GEN-LIMB
Remark	UID 34
Data Directory	0214-22.24.48

Signatures

	Date	Signature
Issued	2-8-1998	M. D.
< Performed	2-8-98	

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Sander Derksen 03-08-98	
	What's the name of the (main) data input files generated by the EGSE? `(*.dat)`	scia_02081998_223727603	(A)
	Setup a three-window configuration on your SUN.		see course descr.

Cnstr directory	`cd ~/DATA-DIR/RAD-LIMB`
	`; ls -l`
	highest number in directory?
	New directory: `mkdir <B+1>`
	`ls -l`
	What's now the highest number in directory?
	<C> should be <B> + 1
		/
		1
		Y / N
			Note: In window DATA-DIR
			(B)
			(C)

	directory name is:	`~/DATA-DIR/RAD-LIMB/<C>`	(DIR-NAME)
Copy data	See Analysis sheet: Transfer Data File	Y / N	In DATA-DIR window

Cnstr EGSE_LTF	`cal_raw2ltf .` (Error messages are not necessarily fatal; check with SOLAN --in solan window-- whether output file is okay: there should be a signal present, and `dremark1` labels should be filled)
	`ls -l *.egse_ltf`
	What's the name of the egse_ltf file
	`<D> should be <A>.egse_ltf`
		scia_02081998_223727603
		Y / N
			Note: In window DATA-DIR; ***don't forget the dot !!!;*** *May take more than 15 mins.*
			(D)

Cnstr CAL files	`idl run_averscia` (and select file <D> when asked)		Note: In window IDL
Check CAL files	Dark files: `ls -l <DIR-NAME>/*du*.cal`		
	size:	145998	should be approx 150Kb
	`ls -l <DIR-NAME>/*RU*.cal`		

size: 145998 — should be approx 150Kb

Note: all files should be present, if not:
(a) Check file <D> using SOLAN and check whether du, and ru labels are present in dremark1 labels
(b) Check if enough disk space is available (Unix command `df -k | more`).

Print postscript

Print postscript files:
`lpr -P<printer> *.ps`
Contents dark file `*du*.cal.ps` should be approx. constant within channels: (Y) N
Contents light file `*ru*.cal.ps` should resemble white light source: (Y) N

Contents of `*rel_std*.ps` files should be smaller than 0.01 (pixel 300 -- 800) for all channels: (Y) N
If not, value is: _____

Add postscript images to logbook, done (Y) N

Print logfiles

`lpr -P<printer> *.log`
Add logfiles to logbook, done (Y) N

Radiance processing

Run radiance

`idl do_radiance` — In IDL window

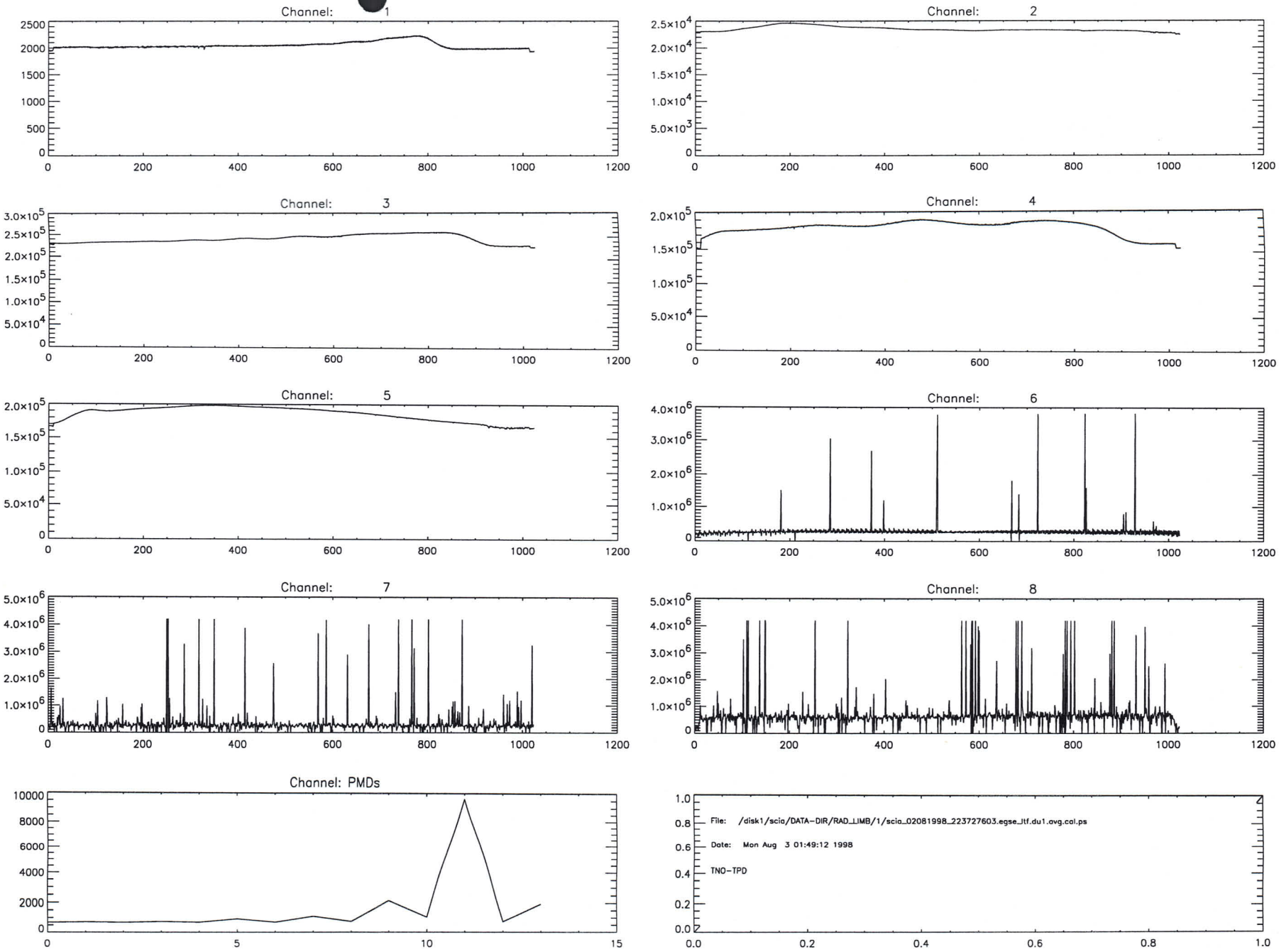
Check radiance

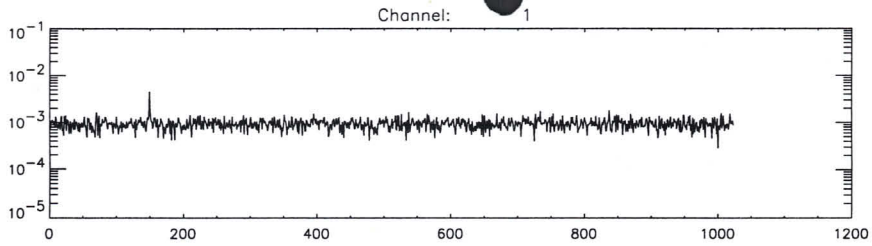
`ls -l * | more` — In DATA-DIR window

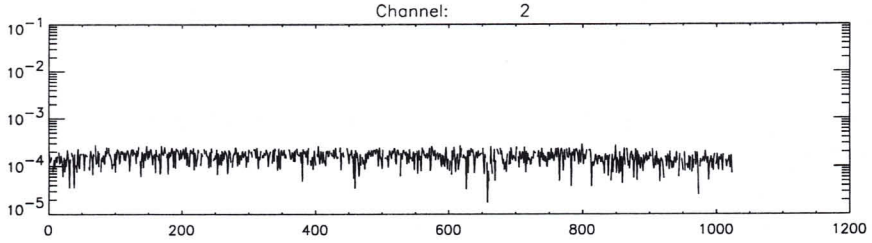
Size of file `<D>.du*.avg.cal.p1.cal` 145998 — should be approx 150Kb

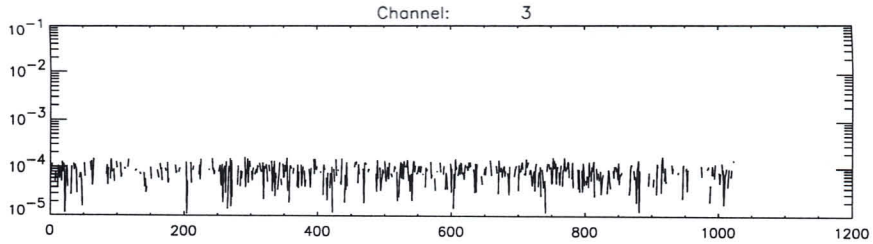
Size of file `<D>.du*.avg.cal.p2.cal` 145998

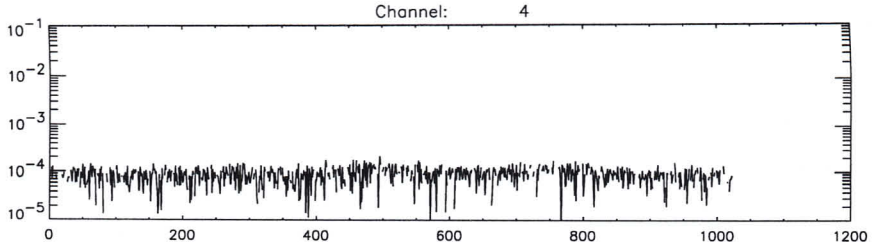
Check radiance visually	`lpr -P<printer> *.p[12].*.cal.ps` Value of P1 and P2 file resemble white light source?	Y / N
	Add postscript images to logbook, done	Y / N
Print logfiles	`lpr -P<printer> *.p[12].cal.log` Add logfiles to logbook, done	Y / N
Back up	Create 3 sets of backup CDs of directory <DIR-NAME> (One CD has a capacity of 600 Mbytes, the UNIX command `/usr/bin/du -k .` gives the number of kilo bytes in the current directory). Name of backup CDs _____	See analysis sheet BackUp
Sign:	Name _____ Date and time _____ Signature _____	

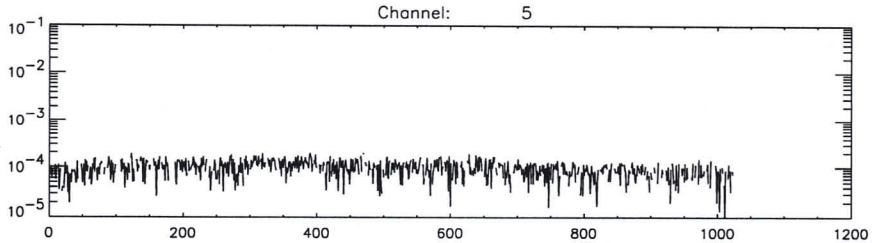

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_LIMB/1/scia_02081998_223727603.egse_ltf.du1.avg.cal.ps
Date: Mon Aug 3 01:49:12 1998
TNO-TPD

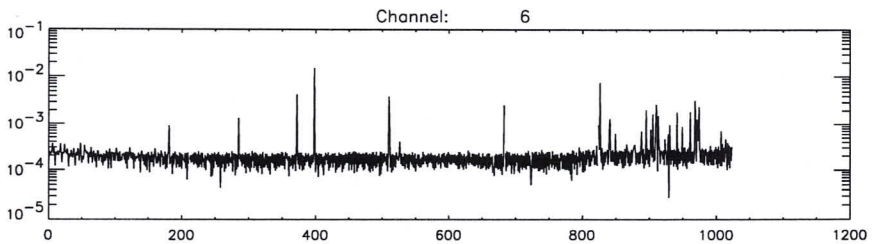

Channel: 1

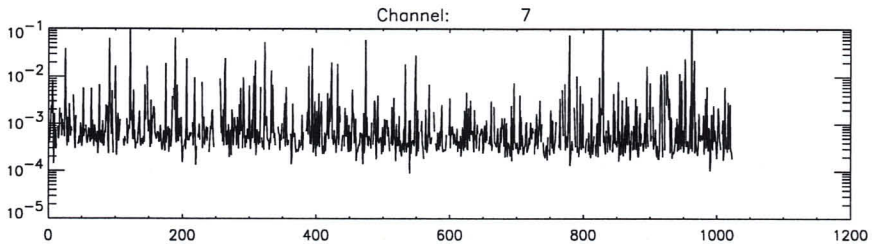

Channel: 2

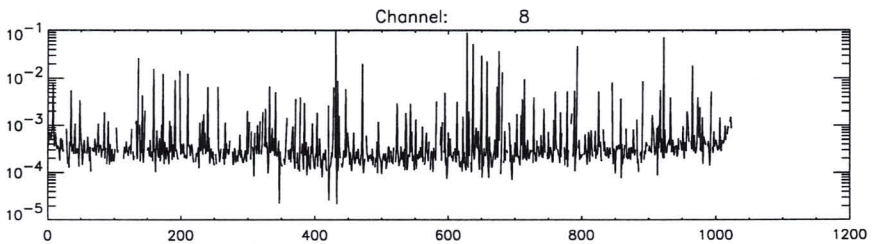

Channel: 3

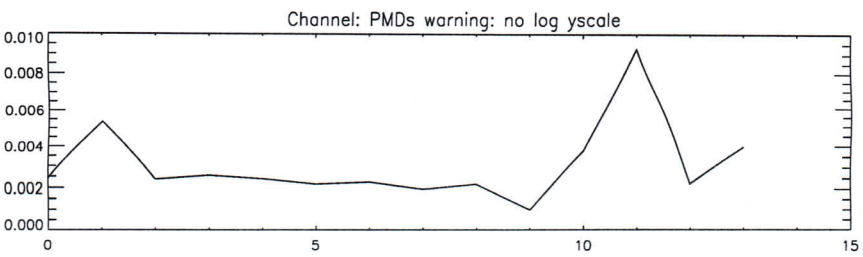

Channel: 4

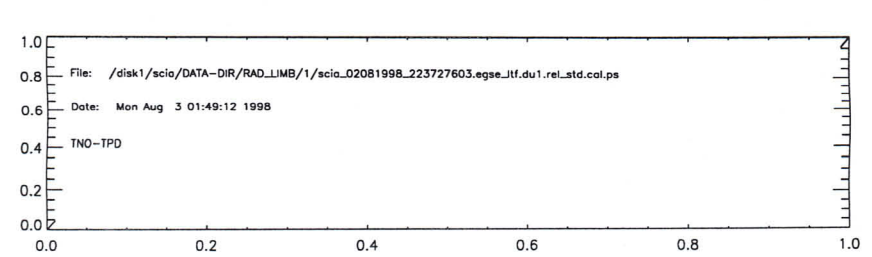

Channel: 5

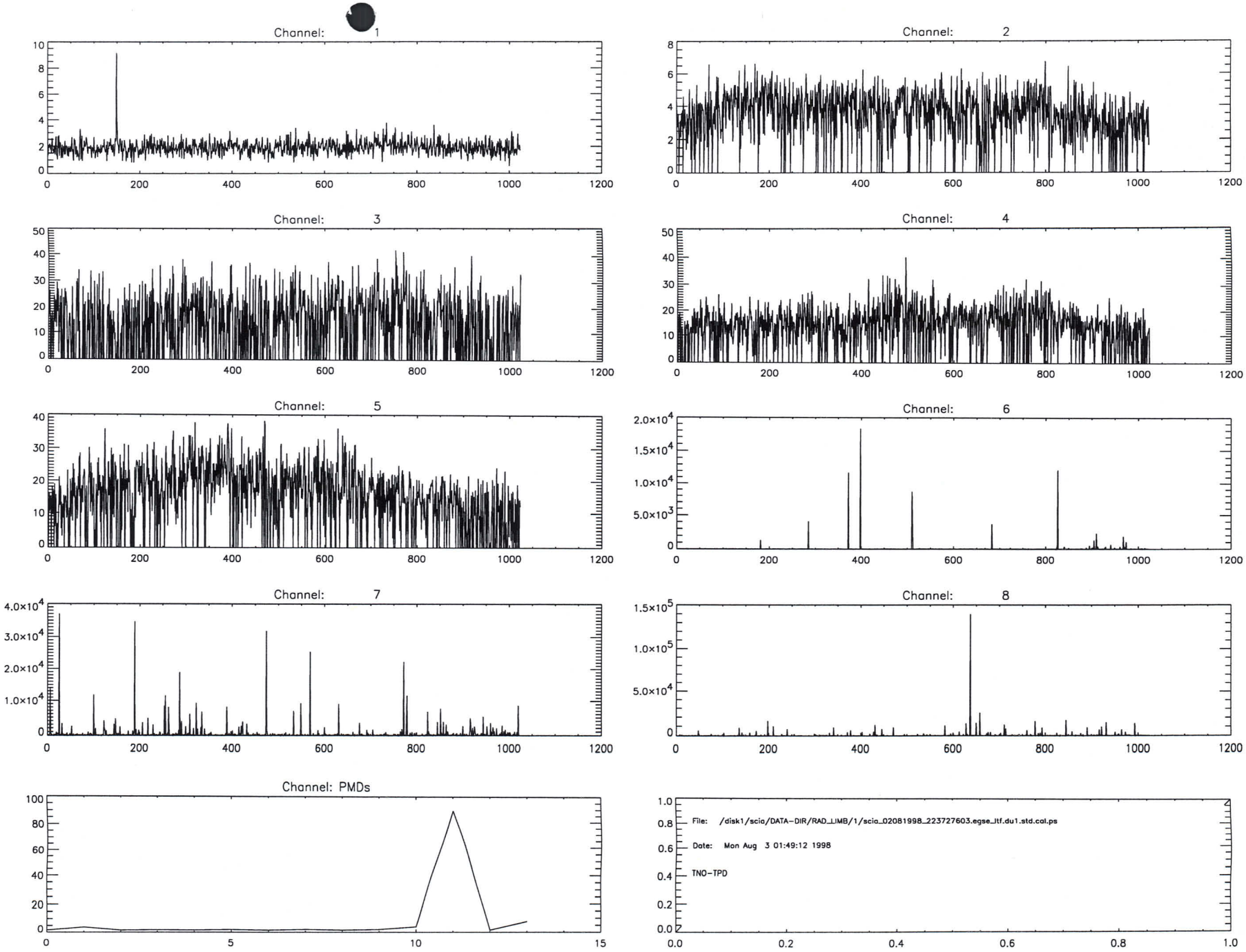

Channel: 6

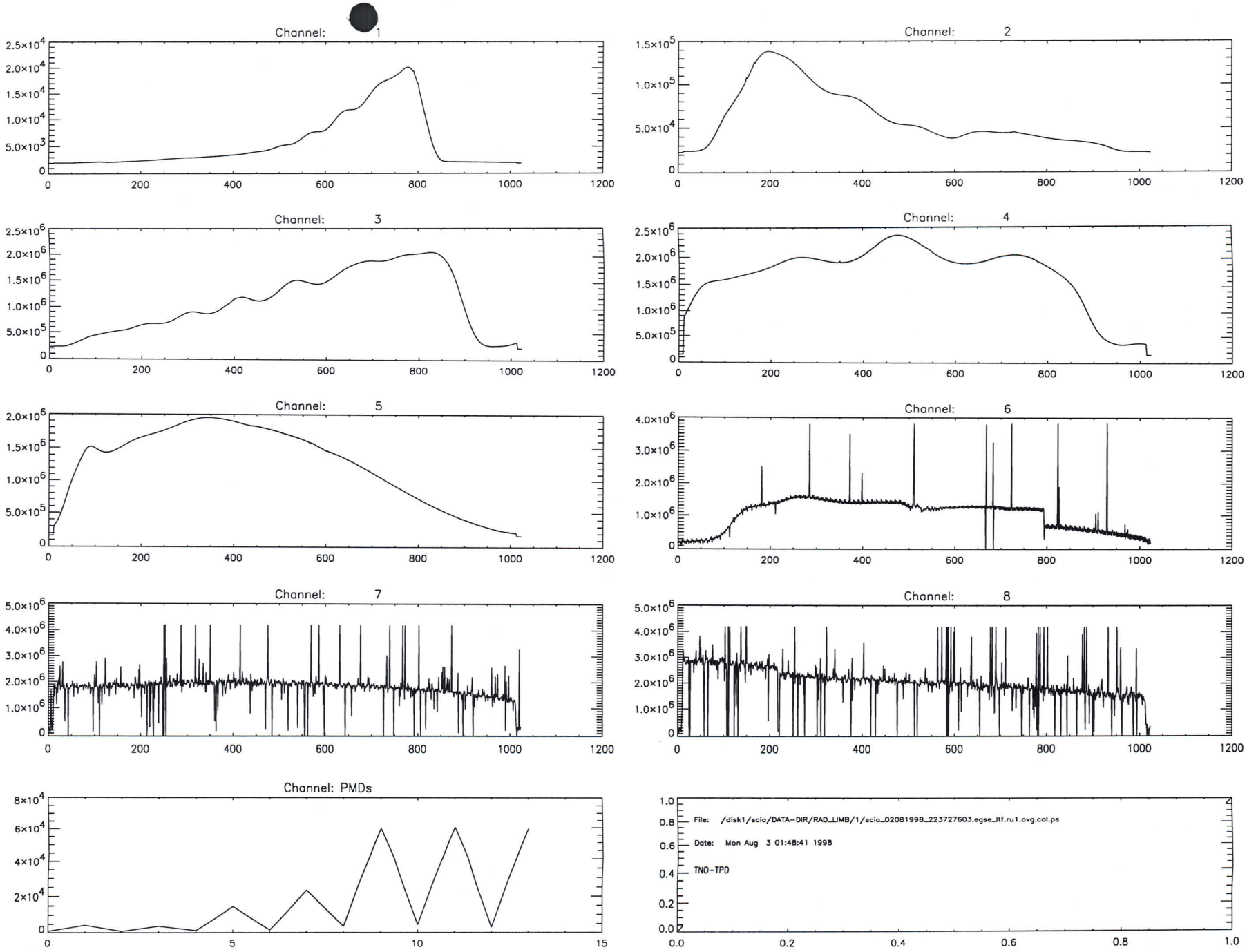

Channel: 7

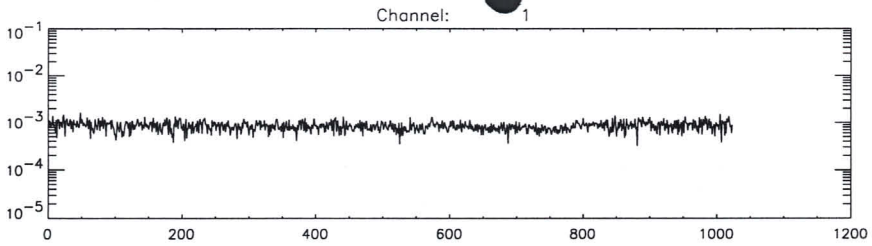

Channel: 8

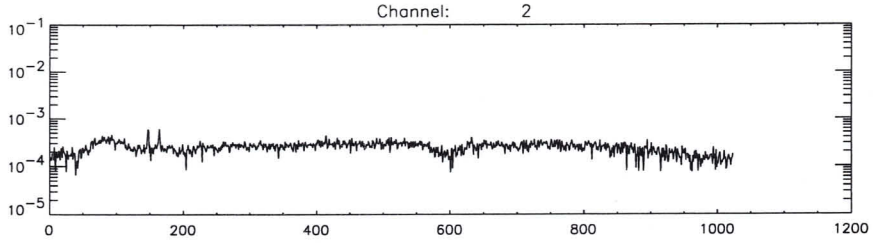

Channel: PMDs warning: no log yscale

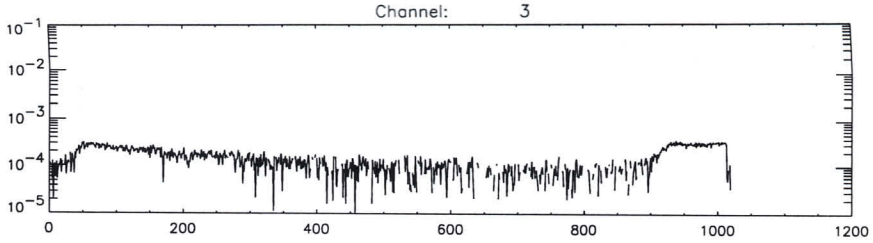

File: /disk1/scia/DATA-DIR/RAD_LIMB/1/scia_02081998_223727603.egse_ltf.du1.rel_std.cal.ps
Date: Mon Aug 3 01:49:12 1998
TNO-TPD

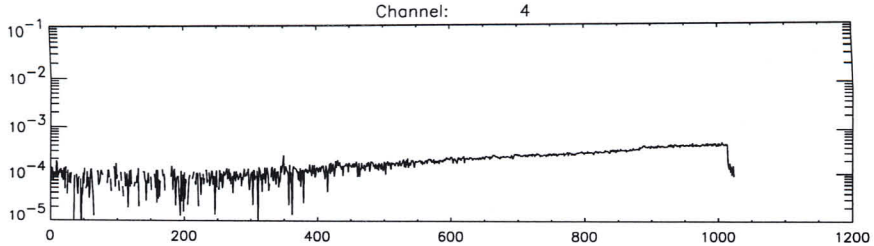

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_LIMB/1/scia_02081998_223727603.egse_ltf.du1.std.cal.ps
Date: Mon Aug 3 01:49:12 1998
TNO-TPD

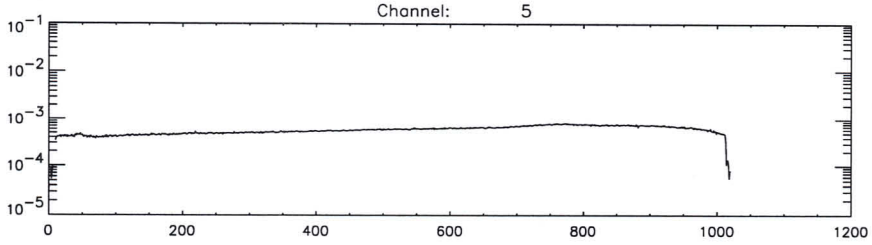

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_LIMB/1/scia_02081998_223727603.egse_ltf.ru1.avg.cal.ps
Date: Mon Aug 3 01:48:41 1998
TNO-TPD

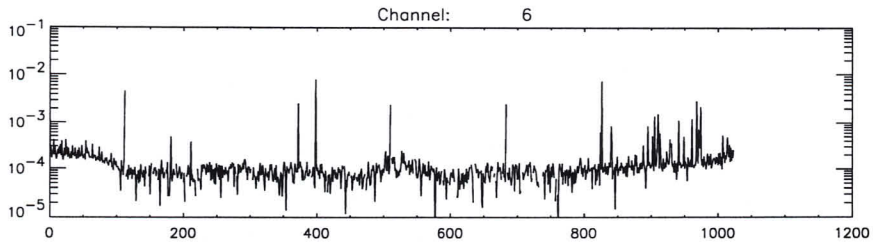

Channel: 1

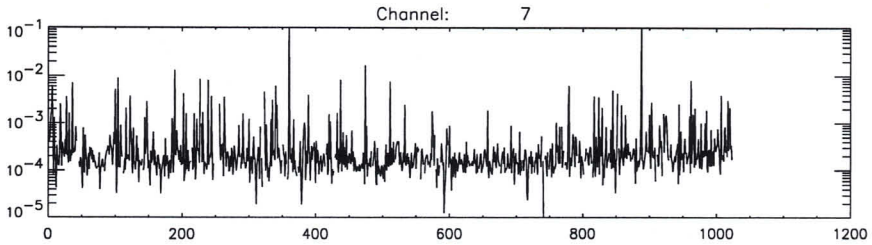

Channel: 2

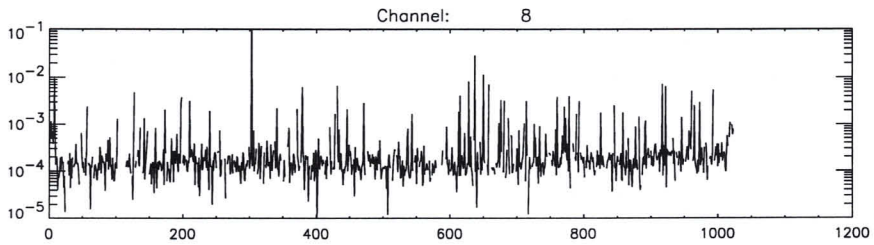

Channel: 3

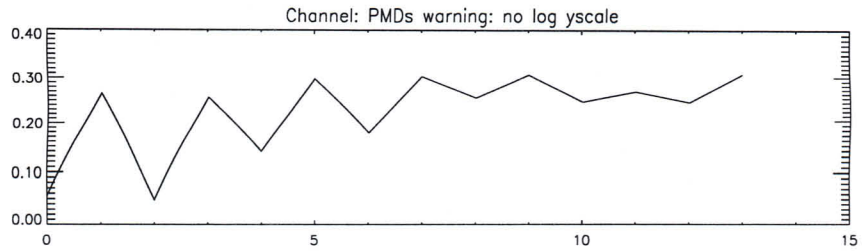

Channel: 4

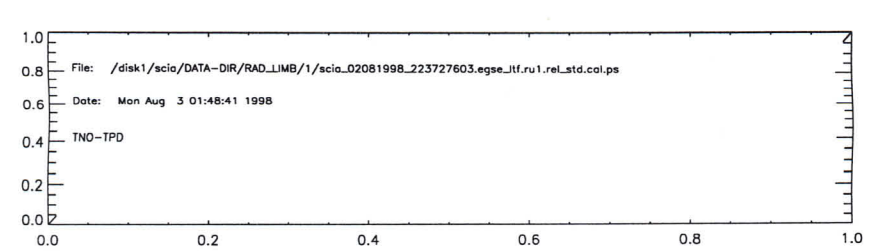

Channel: 5

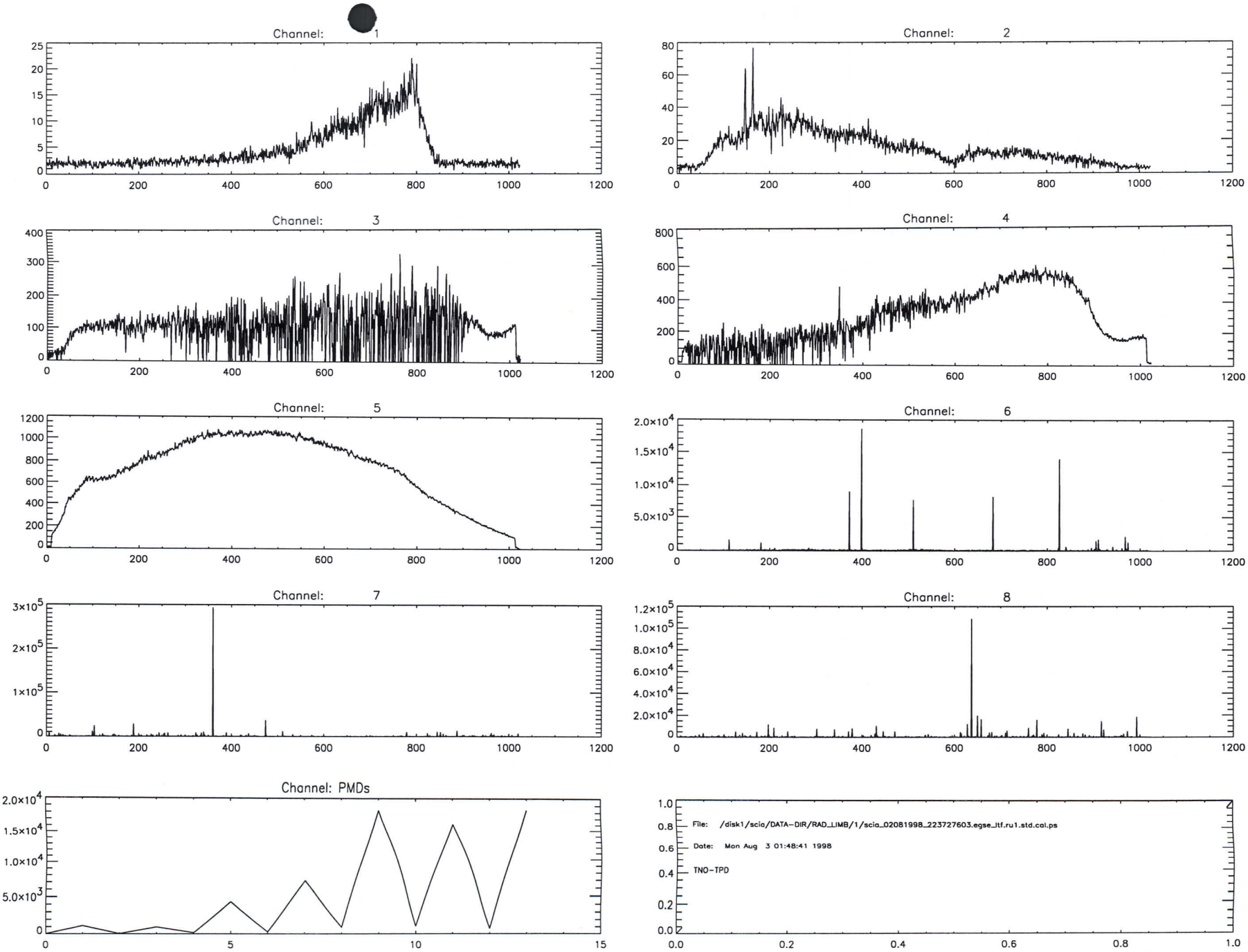

Channel: 6


Channel: 7


Channel: 8

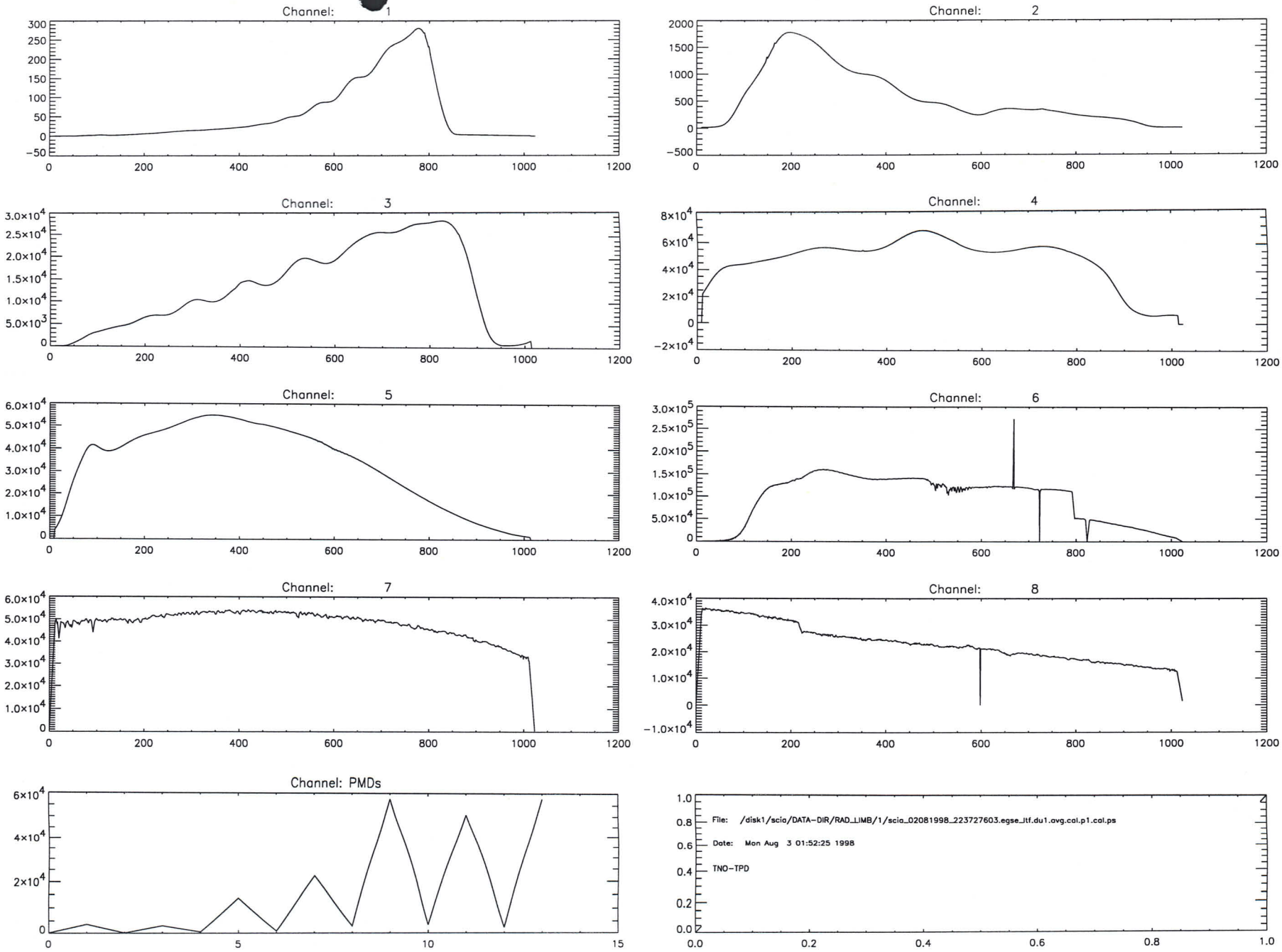

Channel: PMDs warning: no log yscale

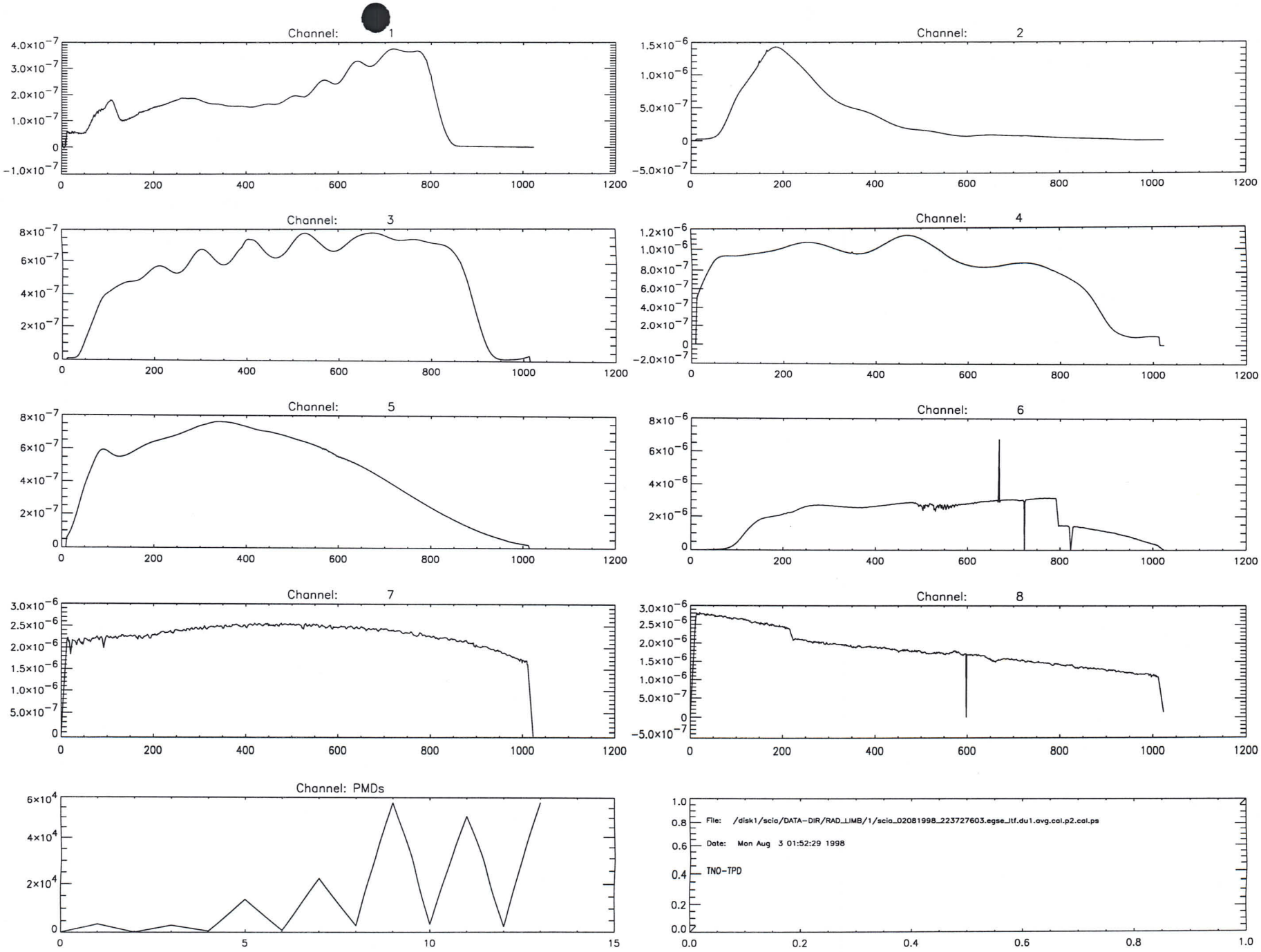

File: /disk1/scia/DATA-DIR/RAD_LIMB/1/scia_02081998_223727603.egse_itf.ru1.rel_std.cal.ps
Date: Mon Aug 3 01:48:41 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_LIMB/1/scia_02081998_223727603.egse_ltf.ru1.std.cal.ps
Date: Mon Aug 3 01:48:41 1998
TNO-TPD

```
time       = Mon Aug  3 01:49:12 1998
batch      = du1
Start TOD = Sun 02-Aug-98 22:50:32
End   TOD = Sun 02-Aug-98 23:02:22
Processing= computation of average, standard dev. and rel.standard dev.
```

```
time       = Mon Aug  3 01:48:42 1998
batch      = ru1
Start TOD = Sun 02-Aug-98 22:37:33
End   TOD = Sun 02-Aug-98 22:50:32
Processing= computation of average, standard dev. and rel.standard dev.
```


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_LIMB/1/scia_02081998_223727603.egse_ltf.du1.avg.cal.p1.cal.ps
Date: Mon Aug 3 01:52:25 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_LIMB/1/scia_02081998_223727603.egse_ltf.du1.avg.cal.p2.cal.ps
Date: Mon Aug 3 01:52:29 1998
TNO-TPD

Version: 0.1
Input files:

/disk1/scia/DATA-DIR/RAD_LIMB/1/scia_02081998_223727603.egse_ltf.du1.avg.cal
 and

/disk1/scia/DATA-DIR/RAD_LIMB/1/scia_02081998_223727603.egse_ltf.ru1.avg.cal
Action:
Radiance calibration: No correction bsdf, transmission and e_cal
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/latest/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/latest/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/latest/stray.da
Processing time: Mon Aug 3 01:52:25 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_LIMB/1/scia_02081998_223727603.egse_ltf.du1.avg.cal.p
Ambient files:
Ambient Correction file versions ac_ucp = # VERSION 0.0
ac_ucs = #VERSION 0.0
ala4lp = #VERSION 0.0
ala4ls = #VERSION 0.0
ala4lx = #VERSION 0.0
alamlp = #VERSION 0.0
alamls = #VERSION 0.0
alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
alaulp = #VERSION 0.0
alauls = #VERSION 0.0
anapnp = #VERSION 0.0
anapnx = #VERSION 0.0
anaunp = #VERSION 0.0 ASAP data
anauns = #VERSION 0.0 ASAP data
bsdf = #Date: 15/06/98 NOTE: This is preliminary data! The final keydata must
optec_window = #VERSION 0.0
reflectance = #VERSION 0.0

Version: 0.1
Input files:

/disk1/scia/DATA-DIR/RAD_LIMB/1/scia_02081998_223727603.egse_ltf.du1.avg.cal
 and

/disk1/scia/DATA-DIR/RAD_LIMB/1/scia_02081998_223727603.egse_ltf.ru1.avg.cal
Action:
Generation of PS file
Radiance calibration: No correction bsdf, transmission and e_cal
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/latest/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/latest/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/latest/stray.da
Processing time: Mon Aug 3 01:52:25 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_LIMB/1/scia_02081998_223727603.egse_ltf.du1.avg.cal.p
Ambient files:
Ambient Correction file versions ac_ucp = # VERSION 0.0
ac_ucs = #VERSION 0.0
ala4lp = #VERSION 0.0
; 4ls = #VERSION 0.0
ala4lx = #VERSION 0.0
alamlp = #VERSION 0.0
alamls = #VERSION 0.0
alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
alaulp = #VERSION 0.0
alauls = #VERSION 0.0
anapnp = #VERSION 0.0
anapnx = #VERSION 0.0
anaunp = #VERSION 0.0 ASAP data
anauns = #VERSION 0.0 ASAP data
bsdf = #Date: 15/06/98 NOTE: This is preliminary data! The final keydata must
optec_window = #VERSION 0.0
reflectance = #VERSION 0.0

```
Version:  0.1
Input files:

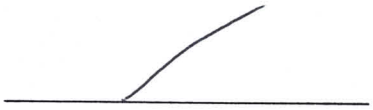
/disk1/scia/DATA-DIR/RAD_LIMB/1/scia_02081998_223727603.egse_ltf.du1.avg.cal
 and

/disk1/scia/DATA-DIR/RAD_LIMB/1/scia_02081998_223727603.egse_ltf.ru1.avg.cal
Action:
Radiance calibration + divided by calibrated irradiance + divded by bsdf + div
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/latest/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/latest/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/latest/stray.da
Processing time: Mon Aug  3 01:52:29 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_LIMB/1/scia_02081998_223727603.egse_ltf.du1.avg.cal.p
Ambient files:
Ambient Correction file versions ac_ucp = # VERSION 0.0
ac_ucs = #VERSION 0.0
ala4lp = #VERSION 0.0
ala4ls = #VERSION 0.0
;   4lx = #VERSION 0.0
alamlp = #VERSION 0.0
alamls = #VERSION 0.0
alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
alaulp = #VERSION 0.0
alauls = #VERSION 0.0
anapnp = #VERSION 0.0
anapnx = #VERSION 0.0
anaunp = #VERSION 0.0 ASAP data
anauns = #VERSION 0.0 ASAP data
bsdf = #Date: 15/06/98 NOTE: This is preliminary data! The final keydata must
optec_window = #VERSION 0.0
reflectance = #VERSION 0.0
```

```
Version:  0.1
Input files:

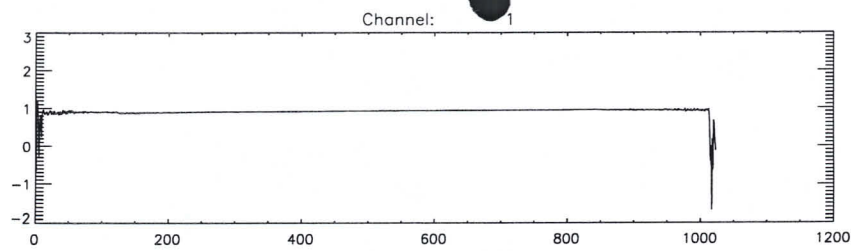
/disk1/scia/DATA-DIR/RAD_LIMB/1/scia_02081998_223727603.egse_ltf.du1.avg.cal
 and

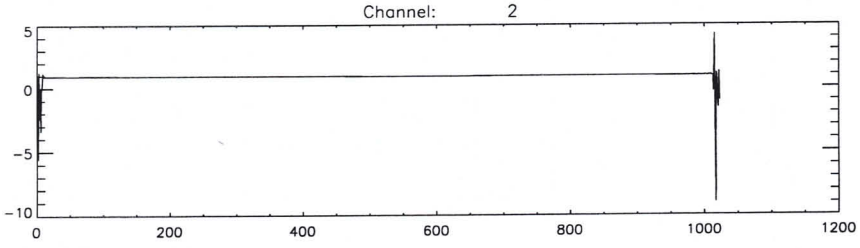
/disk1/scia/DATA-DIR/RAD_LIMB/1/scia_02081998_223727603.egse_ltf.ru1.avg.cal
Action:
Generation of PS file
Radiance calibration + divided by calibrated irradiance + divded by bsdf + div
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/latest/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/latest/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/latest/stray.da
Processing time: Mon Aug  3 01:52:29 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_LIMB/1/scia_02081998_223727603.egse_ltf.du1.avg.cal.p
Ambient files:
Ambient Correction file versions ac_ucp = # VERSION 0.0
ac_ucs = #VERSION 0.0
ala4lp = #VERSION 0.0
   4ls = #VERSION 0.0
a  4lx = #VERSION 0.0
alamlp = #VERSION 0.0
alamls = #VERSION 0.0
alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
alaulp = #VERSION 0.0
alauls = #VERSION 0.0
anapnp = #VERSION 0.0
anapnx = #VERSION 0.0
anaunp = #VERSION 0.0 ASAP data
anauns = #VERSION 0.0 ASAP data
bsdf = #Date: 15/06/98 NOTE: This is preliminary data! The final keydata must
optec_window = #VERSION 0.0
reflectance = #VERSION 0.0
```

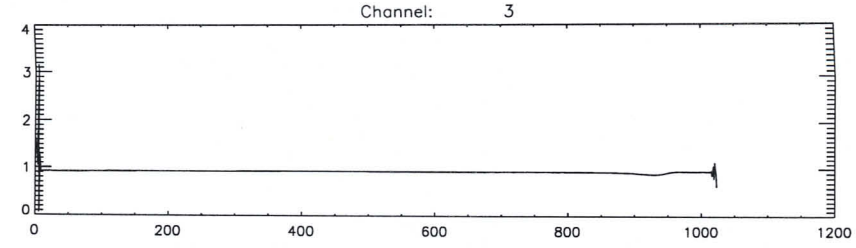
STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Sander Derksen 03-08-1998	
	What's the name of the (main) data input file that you want to store in the SOC directory?		(A)
	Setup a three-window configuration on your SUN.		See course descr.
Do ratio	`idl do_ratio` Let <D1> be the first selected dark file name		In IDL window
	Full path name of <D1> ls -l <D1>.div.cal	scia_02081998_223727603.egse-llf.du1.avg.cal.div.cal 145998	In DATA window
	size of <D1>.div.cal		Approx. 140 kB
	lpr -P<printer> <D1>.div.cal.ps Add postscript image to logbook, Done?	Y / N	In DATA Window
Back up	Create 3 sets of backup CDs of directory `~/DATA-DIR/START-OF-CALIBRATION` (One CD has a capacity of 600 Mbytes, the UNIX command `/usr/bin/du -k .` gives the number of kilo bytes in the current directory). Name of backup CDs		See analysis sheet BackUp
Sign:	Name Date and time Signature		

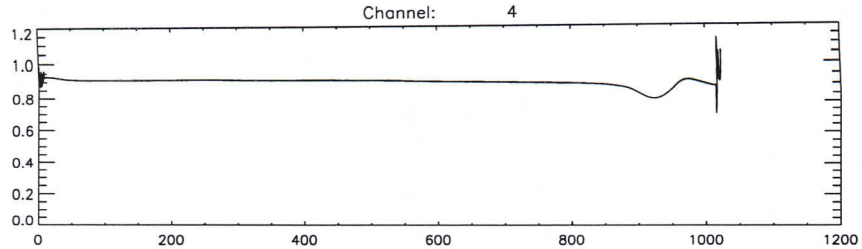
① limb/1
② nadir/1

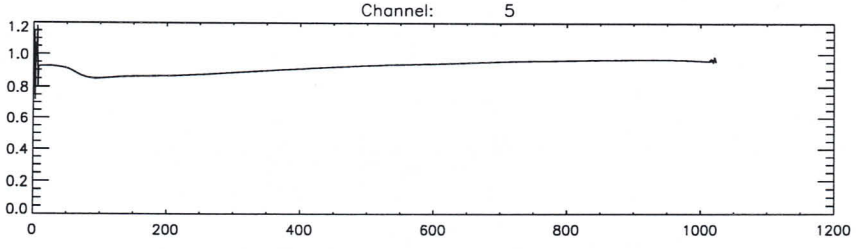
note that the do_ratio procedure asks:
1/ ~~one~~ dark file
2/ a corresponding light file
3/ a second dark file
4/ a corresponding light file.

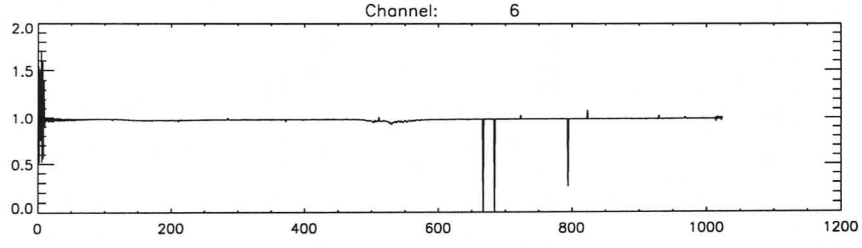

Channel: 1

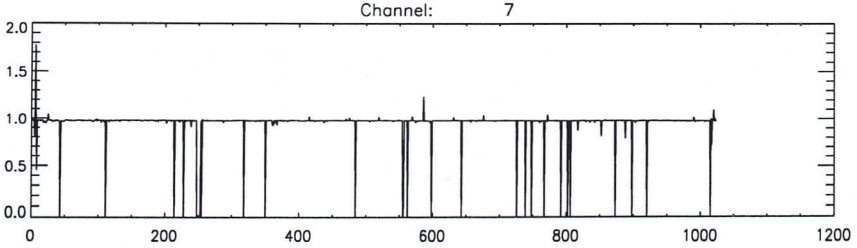

Channel: 2

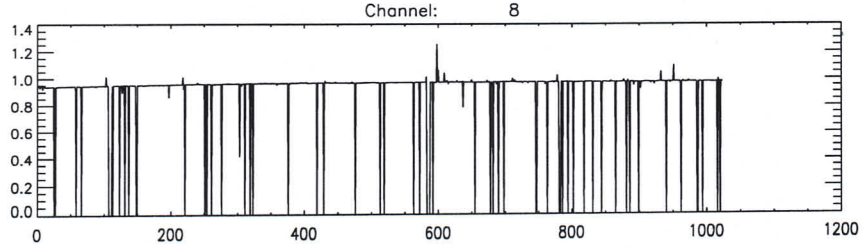

Channel: 3

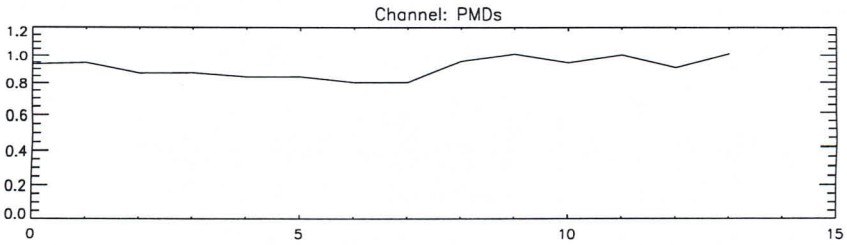

Channel: 4

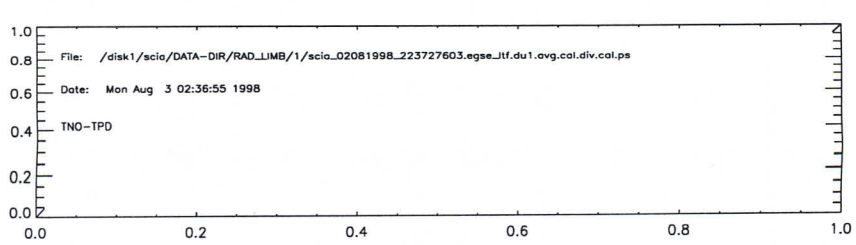

Channel: 5


Channel: 6


Channel: 7


Channel: 8


Channel: PMDs


File: /disk1/scia/DATA-DIR/RAD_LIMB/1/scia_02081998_223727603.egse_jtf.du1.avg.cal.div.cal.ps
Date: Mon Aug 3 02:36:55 1998
TNO-TPD

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	MARCEL DOBBER 3-8-1998	
	What's the name of the (main) data input files generated by the EGSE? `(*.dat)`	scia_03081998_011942245.dat	(A)
	Setup a three-window configuration on your SUN.		see course descr.

Cnstr directory	`cd ~/DATA-DIR/RAD-LIMB ; ls -l`
	highest number in directory?
	New directory: `mkdir <B+1>`
	`ls -l`
	What's now the highest number in directory?
	<C> should be <B> + 1
		1
		
		2
		Y / N
			Note: In window DATA-DIR
			(B)
			
			(C)

	directory name is:	`~/DATA-DIR/RAD-LIMB/<C>`	(DIR-NAME)
Copy data	See Analysis sheet: Transfer Data File	(Y) / N	In DATA-DIR window

Cnstr EGSE_LTF	`cal_raw2ltf .` (Error messages are not necessarily fatal; check with SOLAN --in solan window-- whether output file is okay: there should be a signal present, and `dremark1` labels should be filled)
	`ls -l *.egse_ltf`
	What's the name of the egse_ltf file
	`<D>` should be `<A>.egse_ltf`
		
		scia_03081998_011942245.egse_ltf
		(Y) / N
			Note: In window DATA-DIR; ***don't forget the dot !!!;*** *May take more than 15 mins.*
			
			(D)

Cnstr CAL files	`idl run_averscia` (and select file <D> when asked)		Note: In window IDL

Check CAL files	Dark files:
	`ls -l <DIR-NAME>/*du*.cal`
	size:
	
	`ls -l <DIR-NAME>/*ru*.cal`
		
		146 kB
			
			should be approx 150Kb

size: 146 kB — should be approx 150Kb

Note: all files should be present, if not:
(a) Check file <D> using SOLAN and check whether du, and ru labels are present in dremark1 labels
(b) Check if enough disk space is available (Unix command `df -k | more`).

Print postscript

Print postscript files:
`lpr -P<printer> *.ps`
Contents dark file `*du*.cal.ps` should be approx. constant within channels: (Y) / N
Contents light file `*ru*.cal.ps` should resemble white light source: (Y) / N

Contents of `*rel_std*.ps` files should be smaller than 0.01 (pixel 300 -- 800) for all channels. (Y) / N
If not, value is: _____

Add postscript images to logbook, done (Y) / N

Print logfiles `lpr -P<printer> *.log`
Add logfiles to logbook, done (Y) / N

Radiance processing

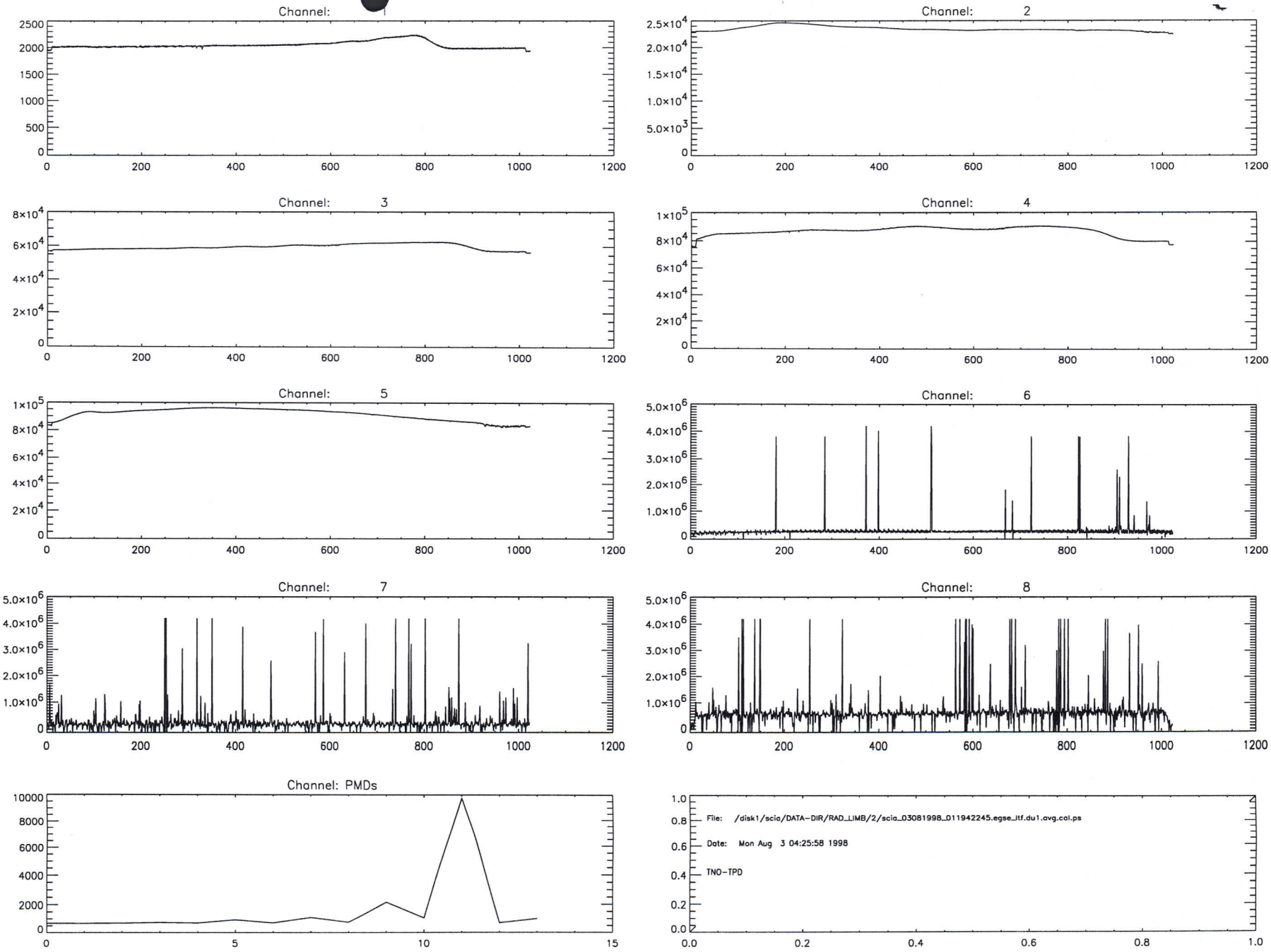
Run radiance `idl do_radiance` — In IDL window

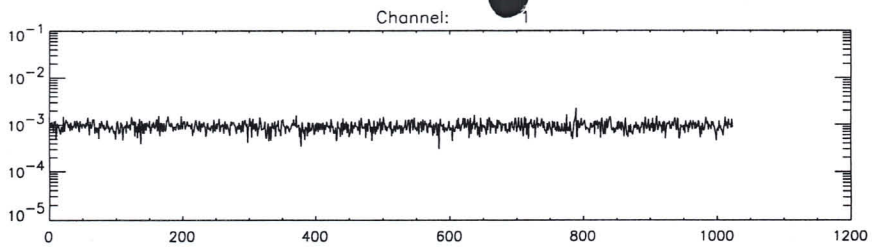
Check radiance `ls -l * | more` — In DATA-DIR window

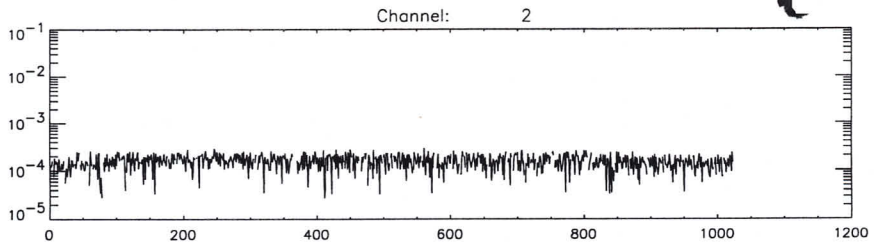
Size of file `<D>.du*.avg.cal.p1.cal` 146 kB — should be approx 150Kb

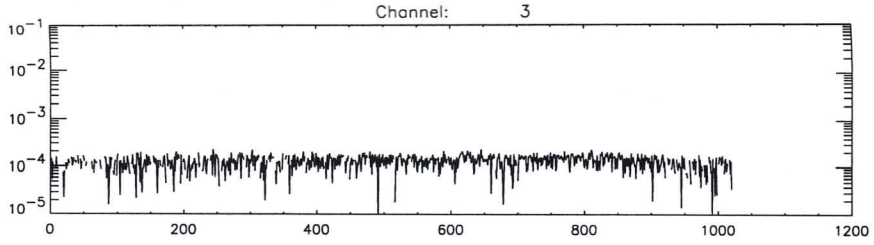
Size of file `<D>.du*.avg.cal.p2.cal` 146 kB

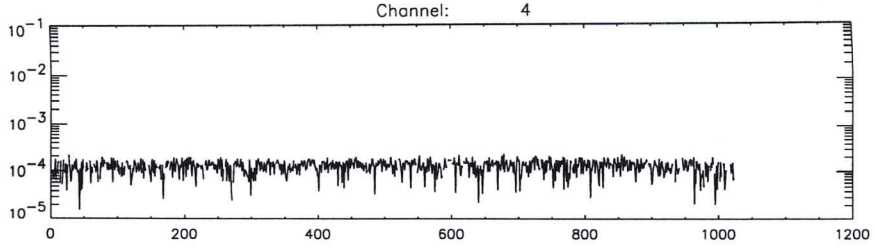
Check radiance visually	`lpr -P<printer> *.p[12].*.cal.ps`		
	Value of P1 and P2 file resemble white light source?	(Y) / N	
	Add postscript images to logbook, done	(Y) / N	
Print logfiles	`lpr -P<printer> *.p[12].cal.log`		
	Add logfiles to logbook, done	(Y) / N	
Back up	Create 3 sets of backup CDs of directory <DIR-NAME> (One CD has a capacity of 600 Mbytes, the UNIX command `/usr/bin/du -k .` gives the number of kilo bytes in the current directory). Name of backup CDs	3 S 030898 B	See analysis sheet BackUp
Sign:	Name	MD	
	Date and time	3-8-1998 7.45 UTC	
	Signature	MD	

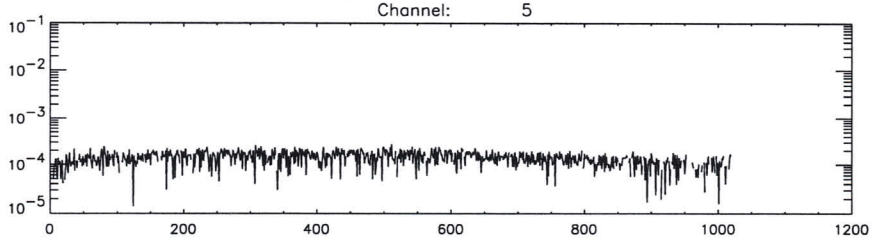

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_LIMB/2/scia_03081998_011942245.egse_ltf.du1.avg.cal.ps
Date: Mon Aug 3 04:25:58 1998
TNO-TPD

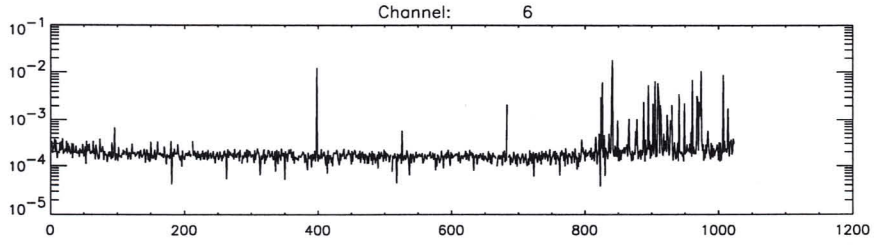

Channel: 1

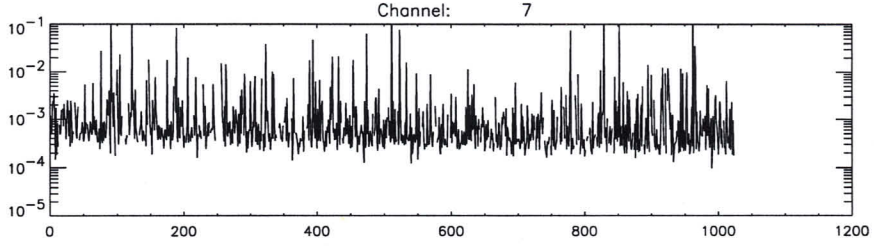

Channel: 2

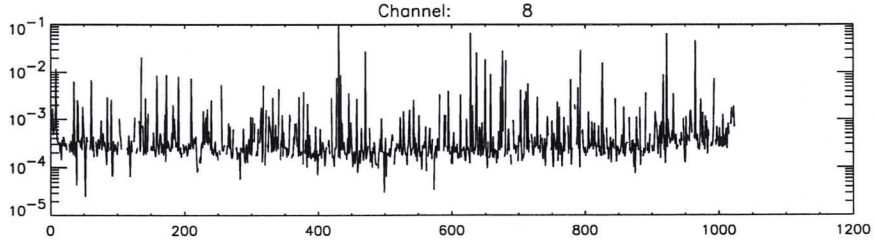

Channel: 3

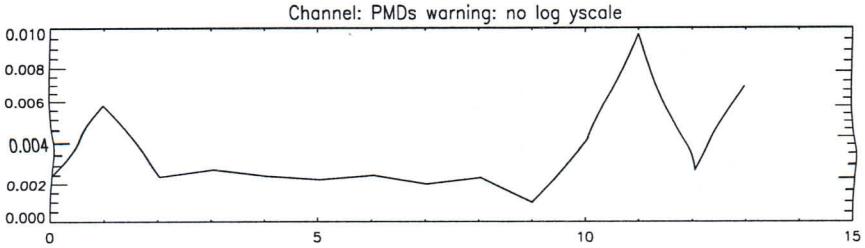

Channel: 4

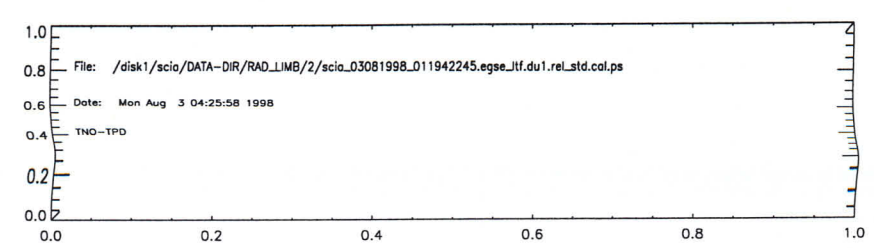

Channel: 5

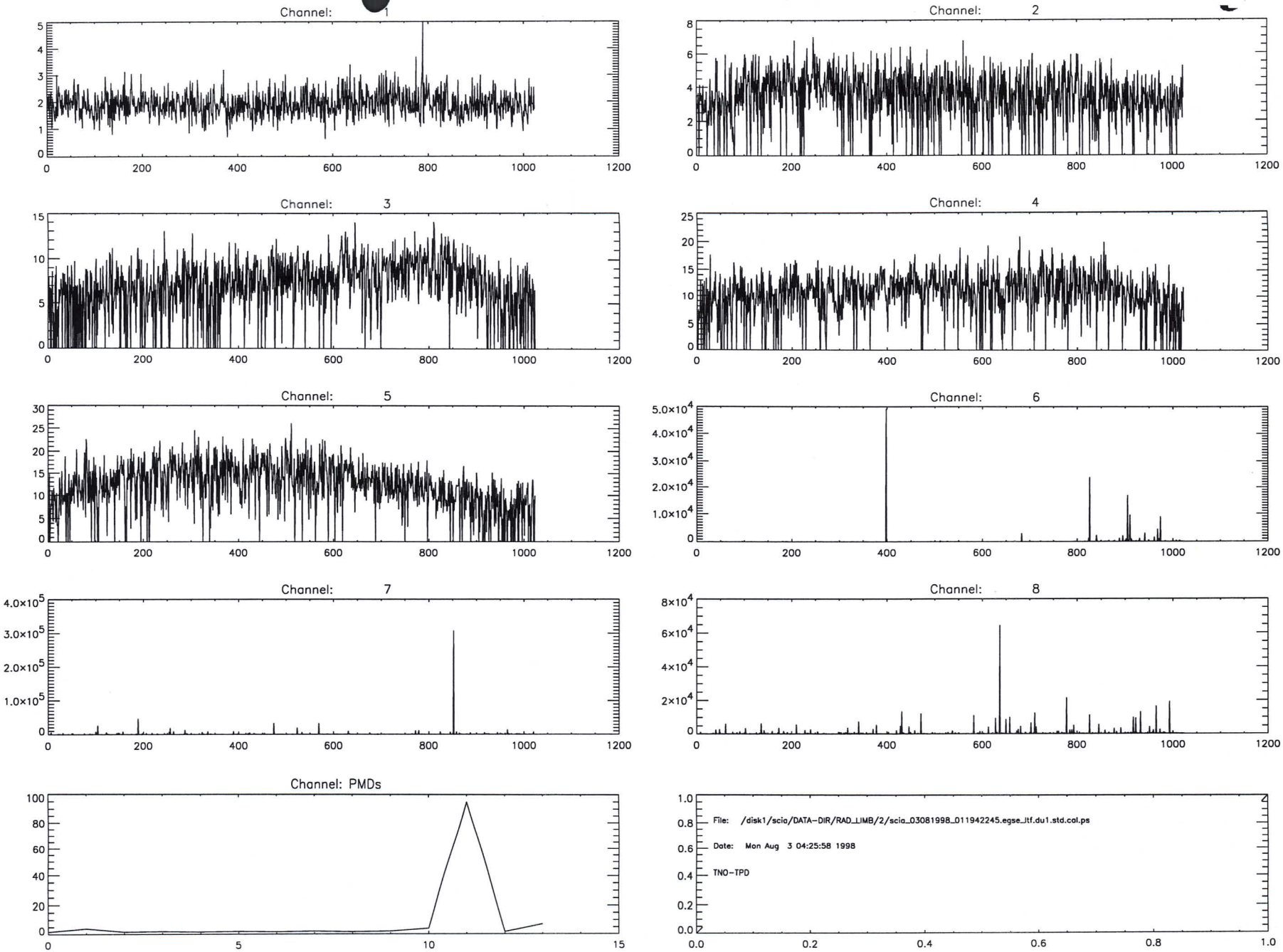

Channel: 6

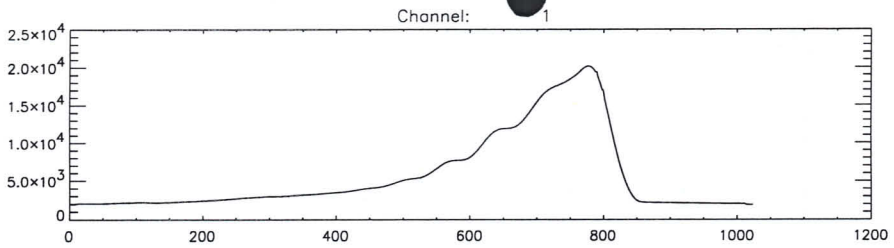

Channel: 7

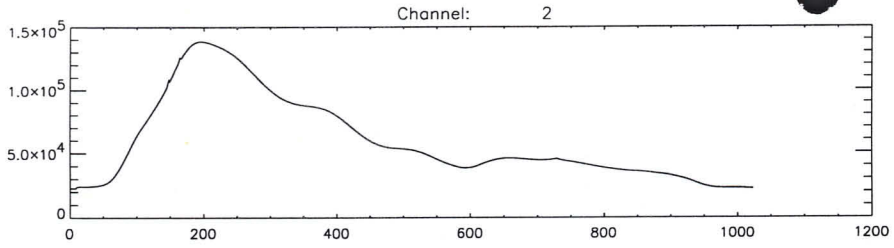

Channel: 8

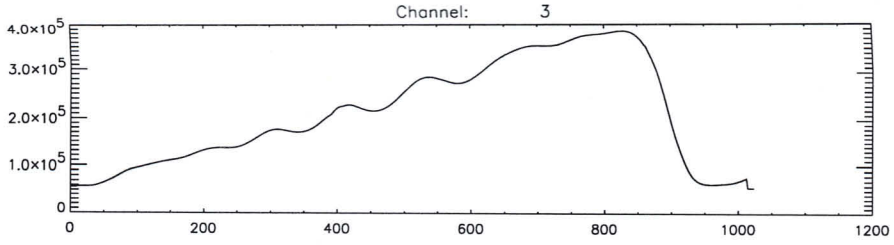

Channel: PMDs warning: no log yscale

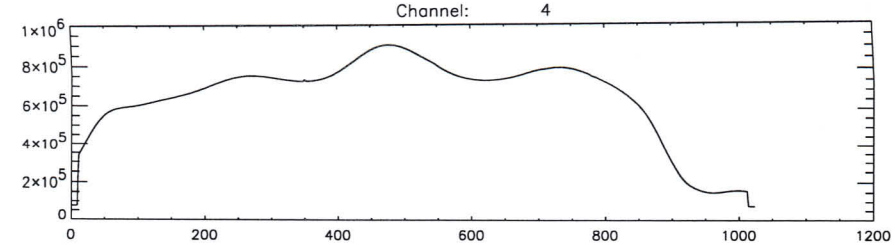

File: /disk1/scia/DATA-DIR/RAD_LIMB/2/scia_03081998_011942245.egse_ltf.du1.rel_std.cal.ps
Date: Mon Aug 3 04:25:58 1998
TNO-TPD

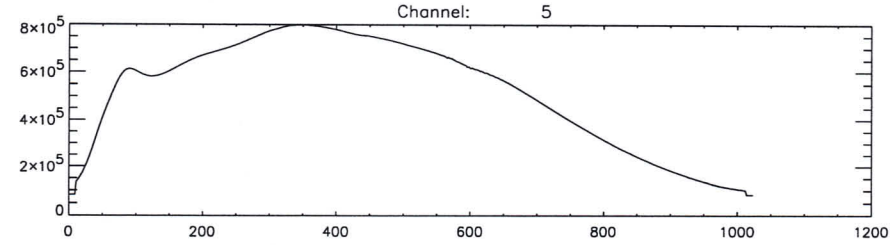

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_LIMB/2/scia_03081998_011942245.egse_ltf.du1.std.cal.ps
Date: Mon Aug 3 04:25:58 1998
TNO-TPD

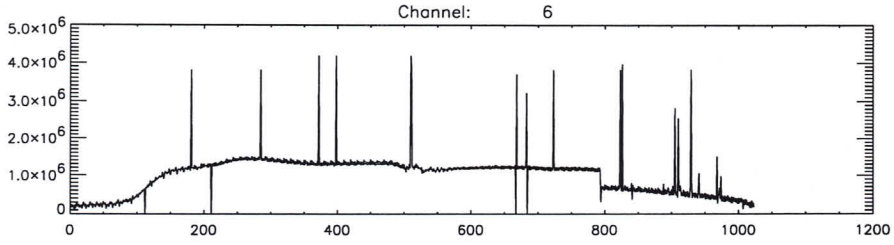

Channel: 1
2.5×10^4
2.0×10^4
1.5×10^4
1.0×10^4
5.0×10^3
0
0
200
400
600
800
1000
1200

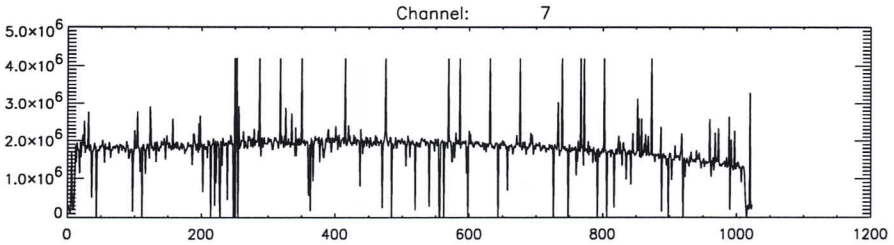

Channel: 2
1.5×10^5
1.0×10^5
5.0×10^4
0
0
200
400
600
800
1000
1200

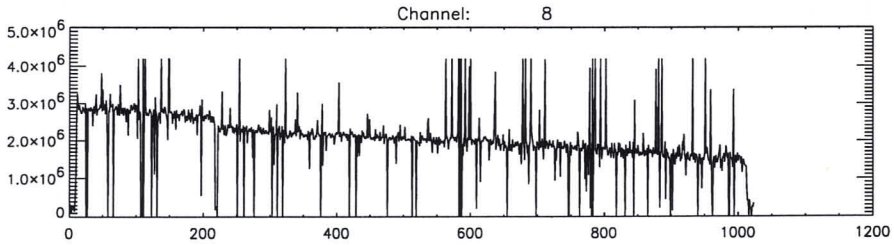

Channel: 3
4.0×10^5
3.0×10^5
2.0×10^5
1.0×10^5
0
0
200
400
600
800
1000
1200

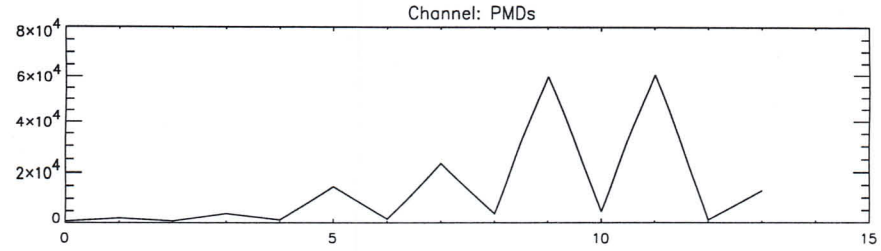

Channel: 4
1×10^6
8×10^5
6×10^5
4×10^5
2×10^5
0
0
200
400
600
800
1000
1200

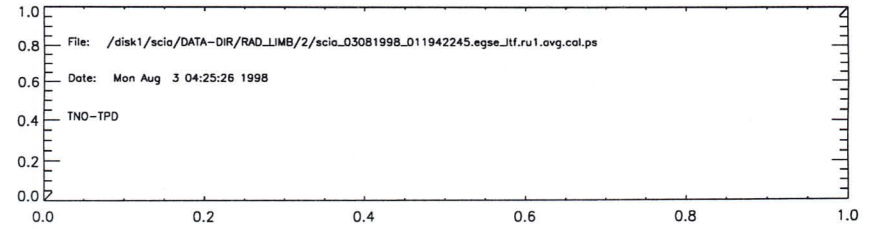

Channel: 5
8×10^5
6×10^5
4×10^5
2×10^5
0
0
200
400
600
800
1000
1200

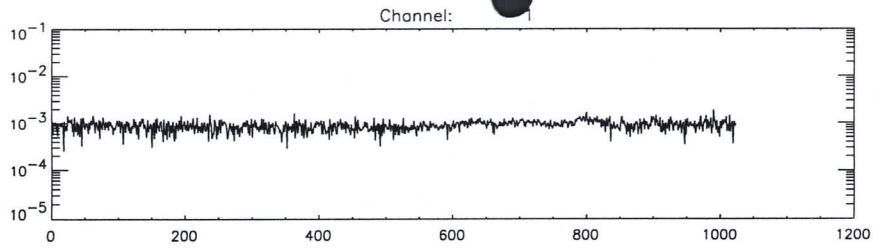

Channel: 6
5.0×10^6
4.0×10^6
3.0×10^6
2.0×10^6
1.0×10^6
0
0
200
400
600
800
1000
1200

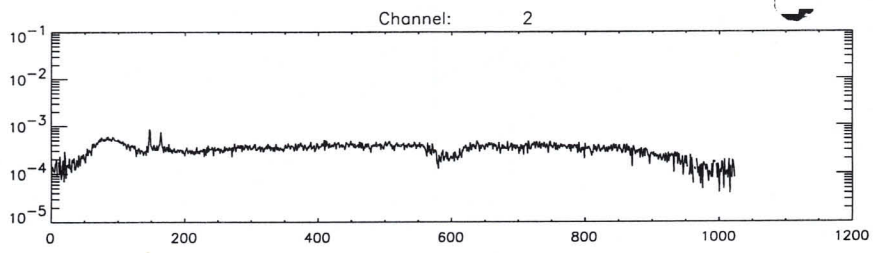

Channel: 7
5.0×10^6
4.0×10^6
3.0×10^6
2.0×10^6
1.0×10^6
0
0
200
400
600
800
1000
1200

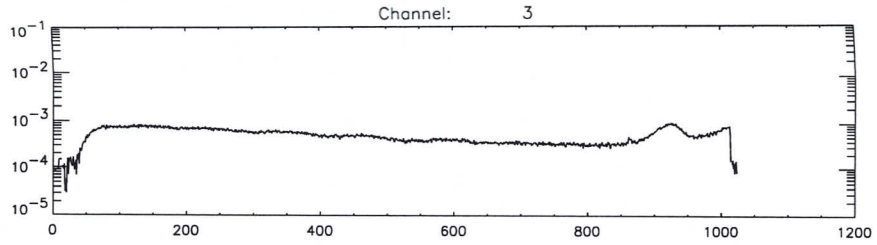

Channel: 8
5.0×10^6
4.0×10^6
3.0×10^6
2.0×10^6
1.0×10^6
0
0
200
400
600
800
1000
1200

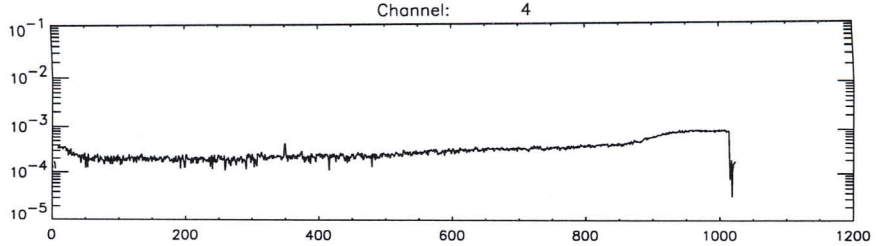

Channel: PMDs
8×10^4
6×10^4
4×10^4
2×10^4
0
0
5
10
15

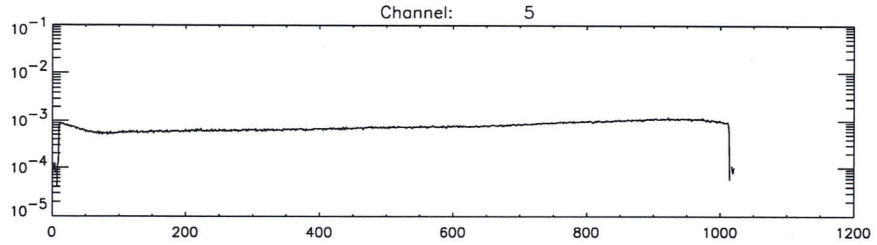

File: /disk1/scia/DATA-DIR/RAD_LIMB/2/scia_03081998_011942245.egse_ltf.ru1.avg.cal.ps
Date: Mon Aug 3 04:25:26 1998
TNO-TPD
1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0

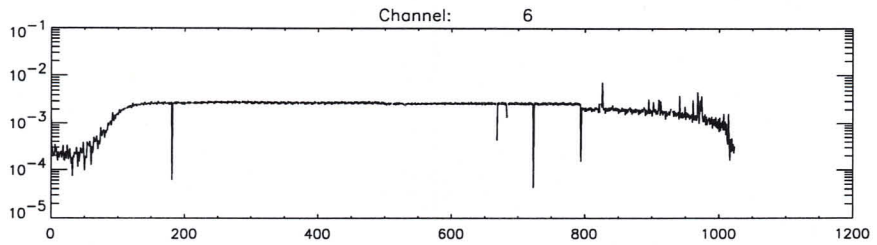

Channel: 1

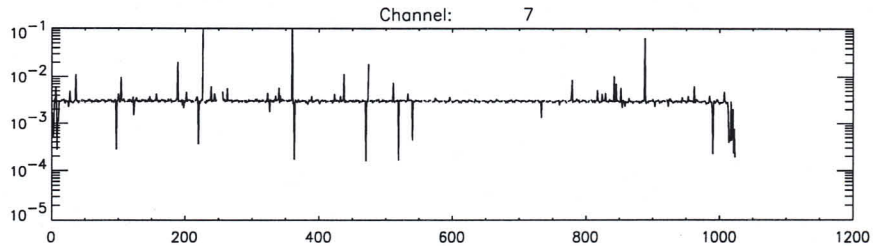

Channel: 2

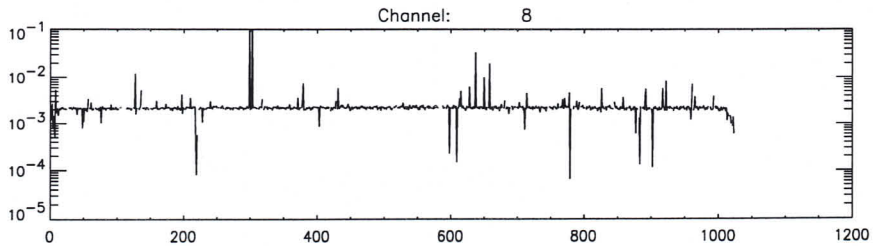

Channel: 3

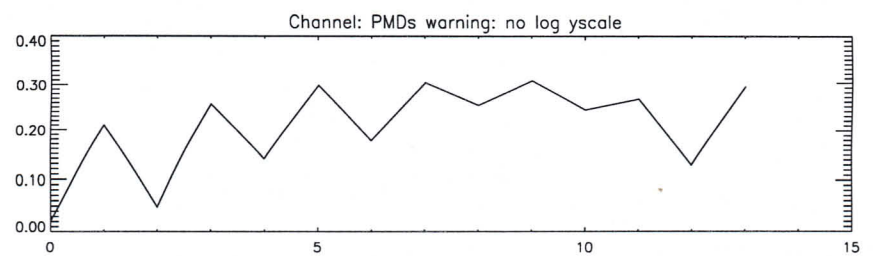

Channel: 4

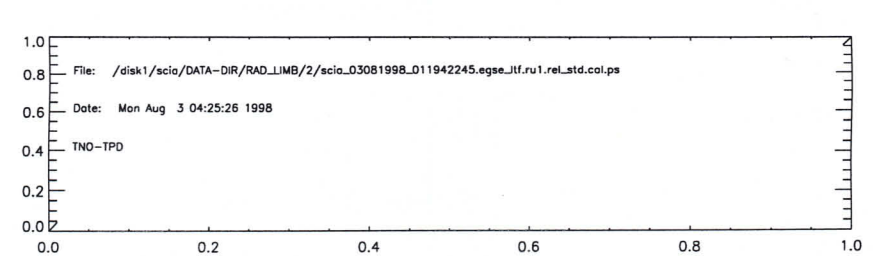

Channel: 5

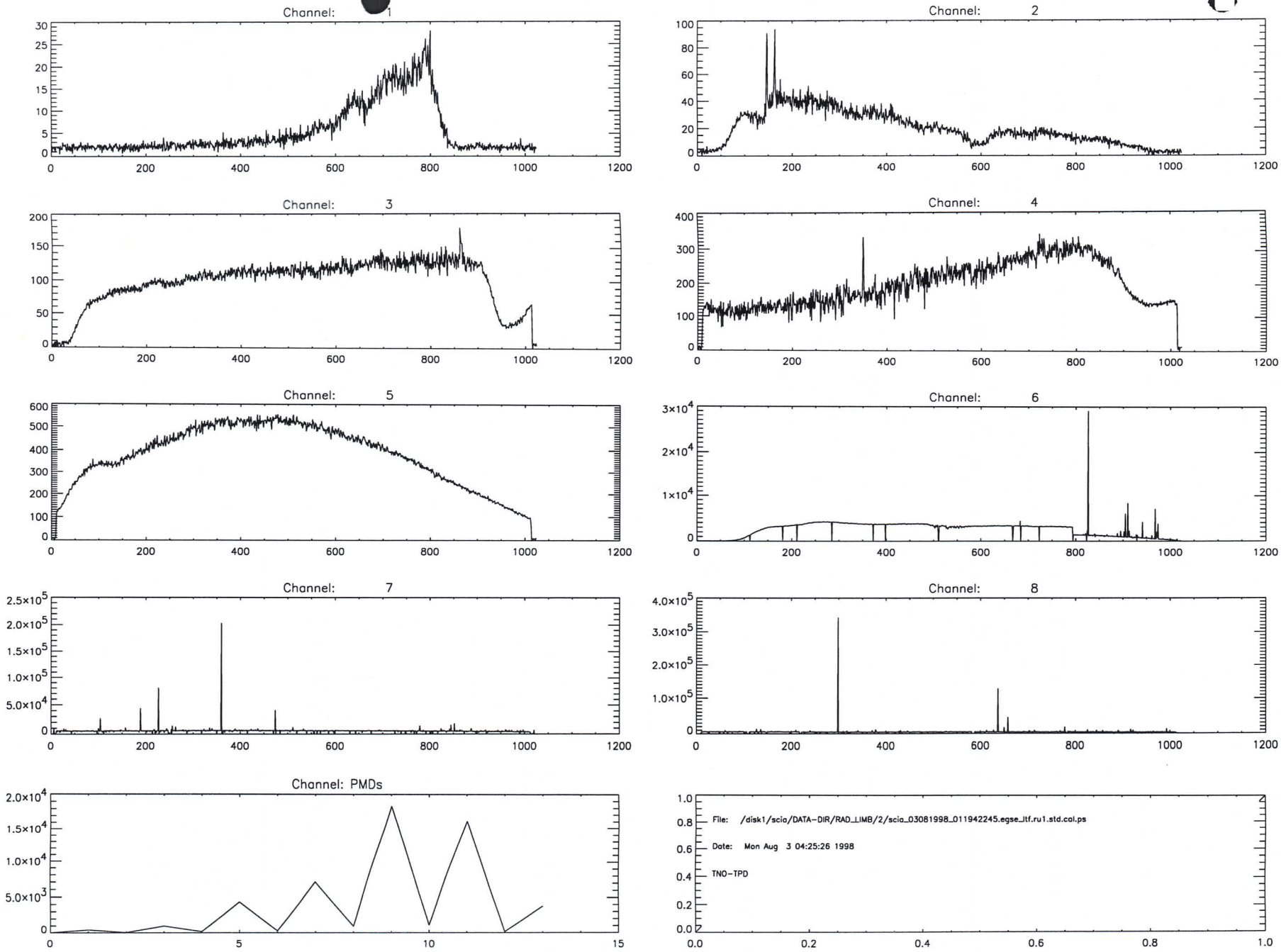

Channel: 6


Channel: 7


Channel: 8

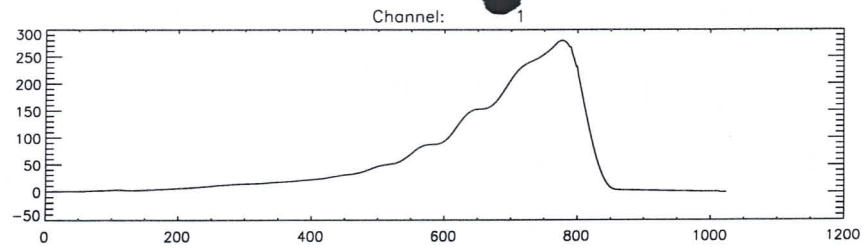

Channel: PMDs warning: no log yscale

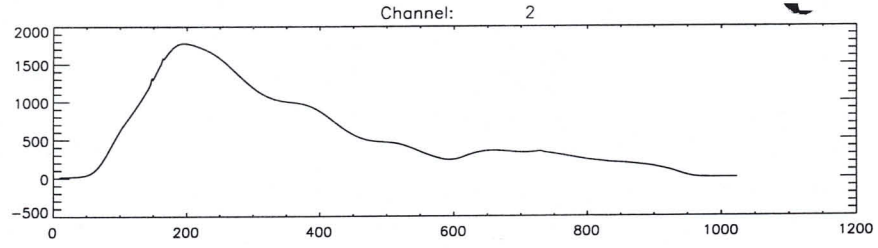

File: /disk1/scia/DATA-DIR/RAD_LIMB/2/scia_03081998_011942245.egse_ltf.ru1.rel_std.cal.ps
Date: Mon Aug 3 04:25:26 1998
TNO-TPD

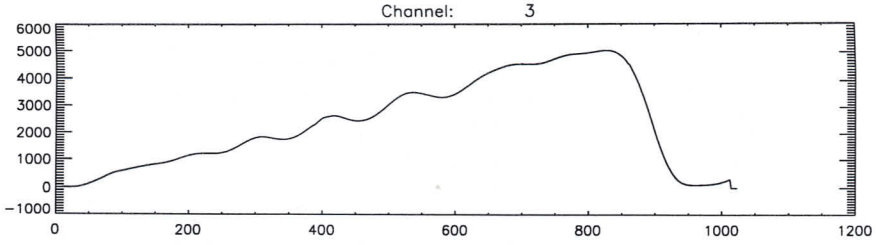

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_LIMB/2/scia_03081998_011942245.egse_ltf.ru1.std.col.ps
Date: Mon Aug 3 04:25:26 1998
TNO-TPD

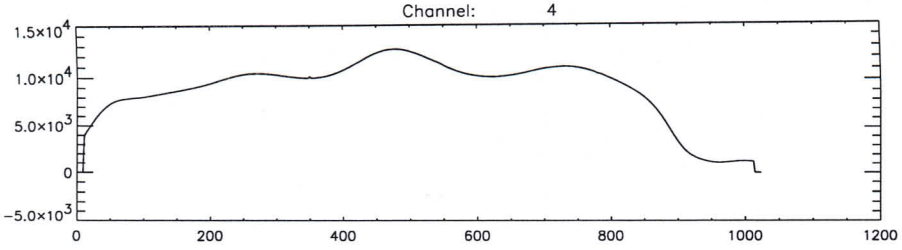
```
time       = Mon Aug  3 04:25:59 1998
batch      = du1
Start TOD  = Mon 03-Aug-98 01:33:29
End   TOD  = Mon 03-Aug-98 01:45:04
Processing= computation of average, standard dev. and rel.standard dev.
```

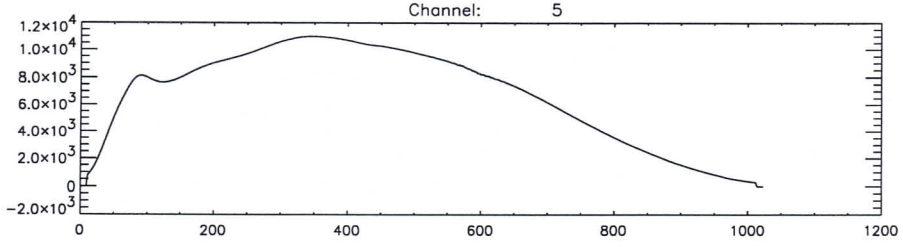
```
time       = Mon Aug  3 04:25:26 1998
batch      = ru1
Start TOD  = Mon 03-Aug-98 01:20:04
End   TOD  = Mon 03-Aug-98 01:33:29
Processing= computation of average, standard dev. and rel.standard dev.
```

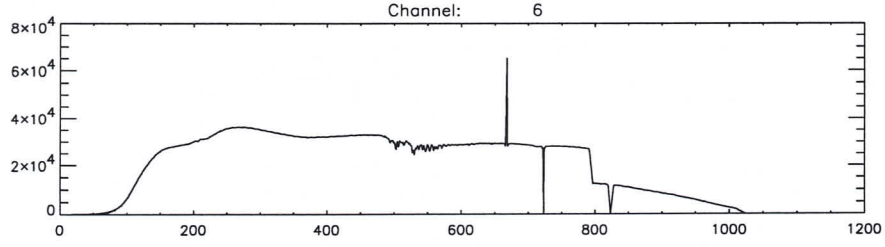

Channel: 1

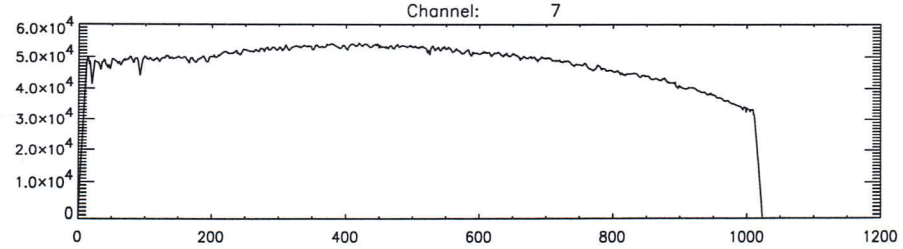

Channel: 2

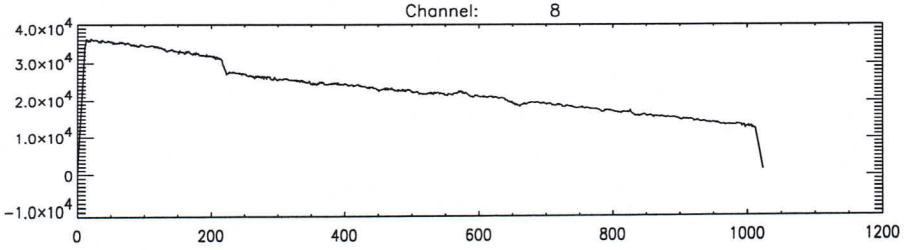

Channel: 3

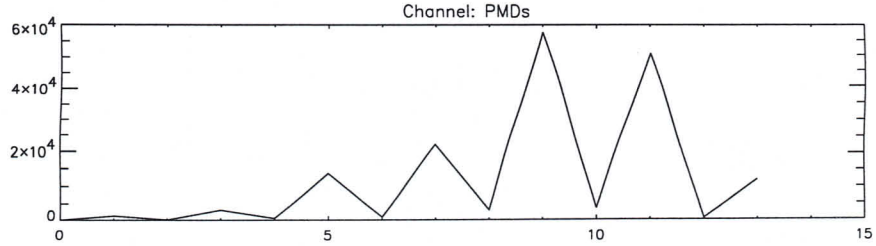

Channel: 4

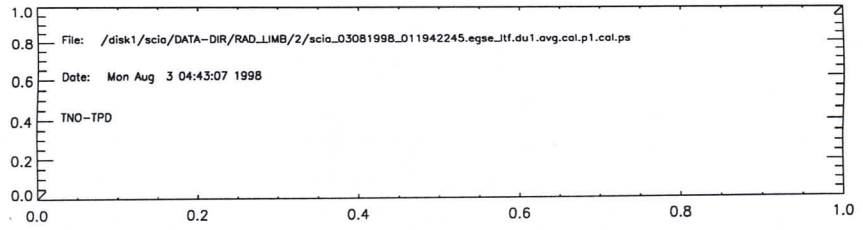

Channel: 5

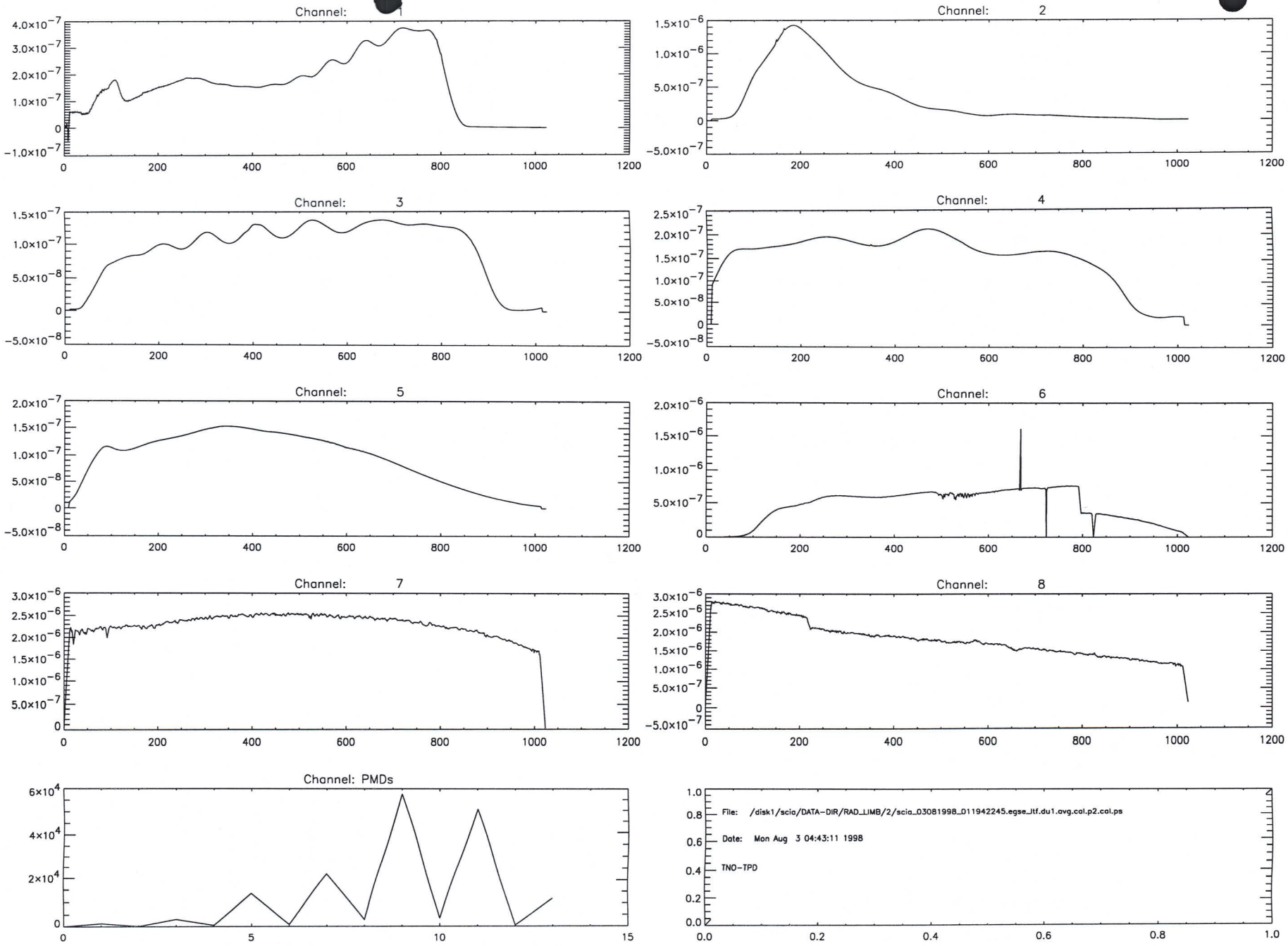

Channel: 6


Channel: 7


Channel: 8


Channel: PMDs


File: /disk1/scia/DATA-DIR/RAD_LIMB/2/scia_03081998_011942245.egse_jtf.du1.avg.cal.p1.cal.ps
Date: Mon Aug 3 04:43:07 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_LIMB/2/scia_03081998_011942245.egse_itf.du1.avg.cal.p2.cal.ps
Date: Mon Aug 3 04:43:11 1998
TNO-TPD

Version: 0.1
Input files:

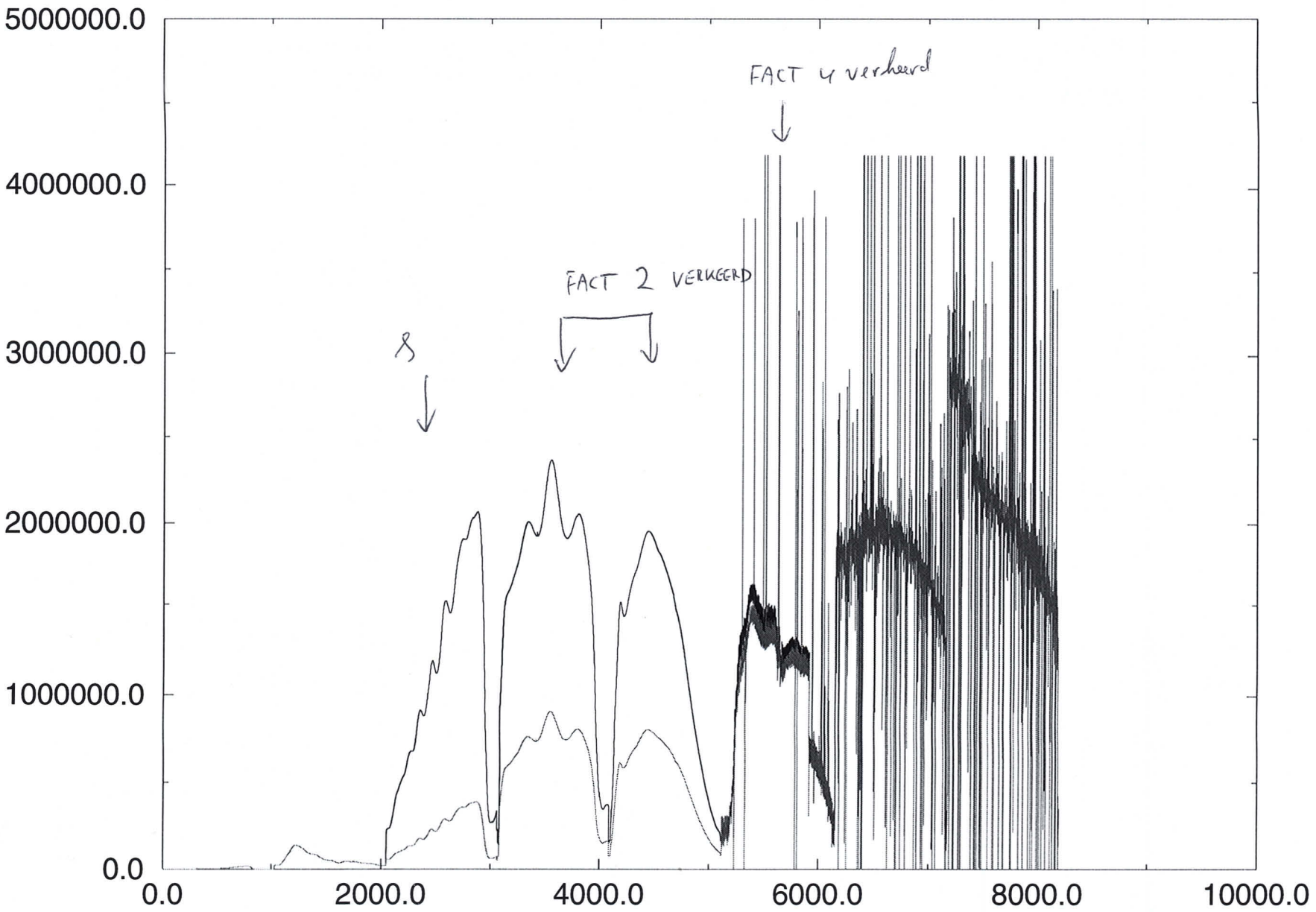
/disk1/scia/DATA-DIR/RAD_LIMB/2/scia_03081998_011942245.egse_ltf.du1.avg.cal
and

/disk1/scia/DATA-DIR/RAD_LIMB/2/scia_03081998_011942245.egse_ltf.ru1.avg.cal
Action:
Radiance calibration: No correction bsdf, transmission and e_cal
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/latest/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/latest/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/latest/stray.da
Processing time: Mon Aug 3 04:43:07 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_LIMB/2/scia_03081998_011942245.egse_ltf.du1.avg.cal.p
Ambient files:
Ambient Correction file versions ac_ucp = # VERSION 0.0
ac_ucs = #VERSION 0.0
ala4lp = #VERSION 0.0
ala4ls = #VERSION 0.0
a 4lx = #VERSION 0.0
alamlp = #VERSION 0.0
alamls = #VERSION 0.0
alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
alaulp = #VERSION 0.0
alauls = #VERSION 0.0
anapnp = #VERSION 0.0
anapnx = #VERSION 0.0
anaunp = #VERSION 0.0 ASAP data
anauns = #VERSION 0.0 ASAP data
bsdf = #Date: 15/06/98 NOTE: This is preliminary data! The final keydata must
optec_window = #VERSION 0.0
reflectance = #VERSION 0.0

Version: 0.1
Input files:

/disk1/scia/DATA-DIR/RAD_LIMB/2/scia_03081998_011942245.egse_ltf.du1.avg.cal
and

/disk1/scia/DATA-DIR/RAD_LIMB/2/scia_03081998_011942245.egse_ltf.ru1.avg.cal
Action:
Radiance calibration + divided by calibrated irradiance + divded by bsdf + div
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/latest/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/latest/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/latest/stray.da
Processing time: Mon Aug 3 04:43:10 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_LIMB/2/scia_03081998_011942245.egse_ltf.du1.avg.cal.p
Ambient files:
Ambient Correction file versions ac_ucp = # VERSION 0.0
ac_ucs = #VERSION 0.0
ala4lp = #VERSION 0.0
ala4ls = #VERSION 0.0
a 4lx = #VERSION 0.0
alamlp = #VERSION 0.0
alamls = #VERSION 0.0
alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
alaulp = #VERSION 0.0
alauls = #VERSION 0.0
anapnp = #VERSION 0.0
anapnx = #VERSION 0.0
anaunp = #VERSION 0.0 ASAP data
anauns = #VERSION 0.0 ASAP data
bsdf = #Date: 15/06/98 NOTE: This is preliminary data! The final keydata must
optec_window = #VERSION 0.0
reflectance = #VERSION 0.0


5000000.0
4000000.0
3000000.0
2000000.0
1000000.0
0.0
0.0
2000.0
4000.0
6000.0
8000.0
10000.0
FACT 4 verheerd
FACT 2 VERKEERD
8

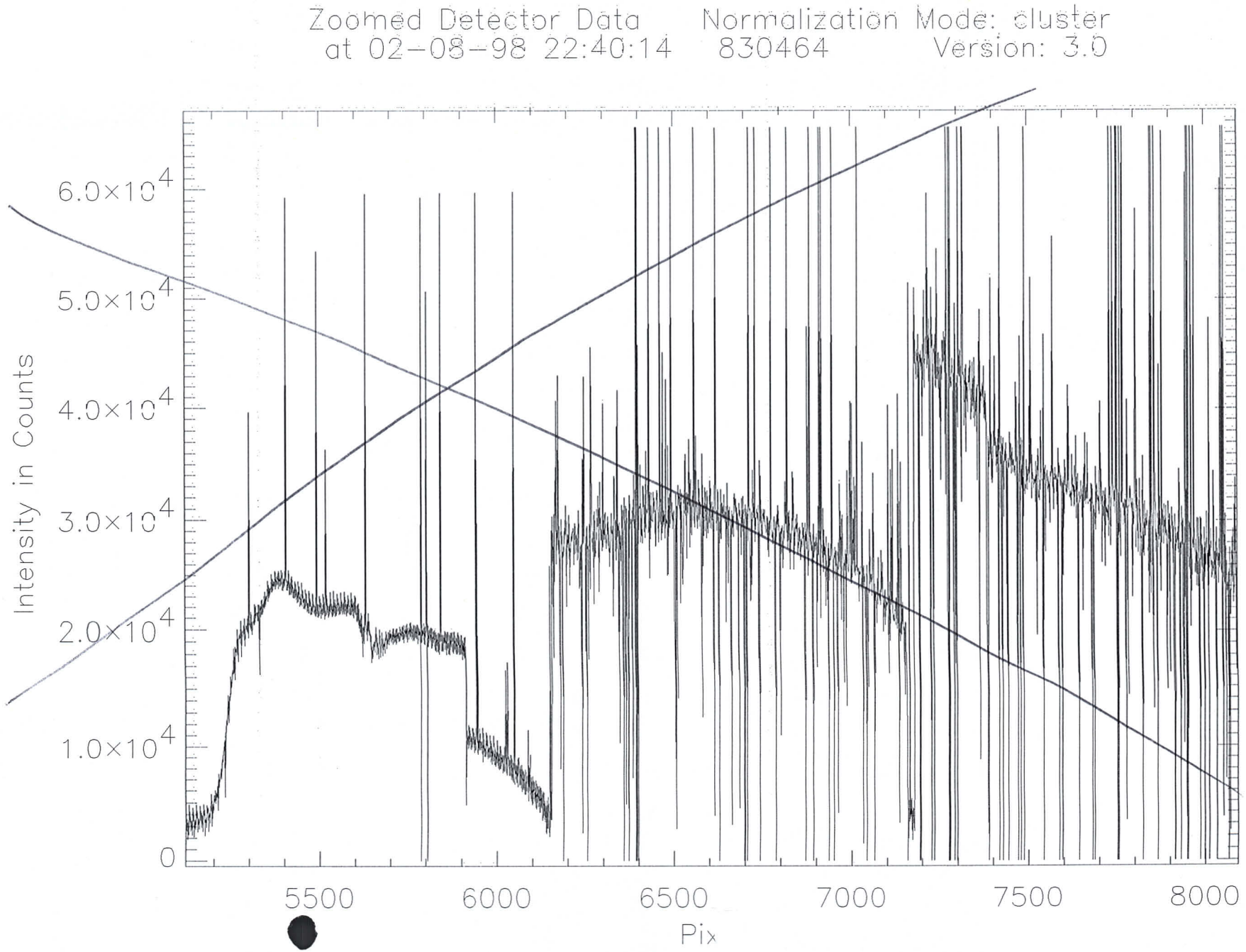
RAD LIMB

1 no NDF

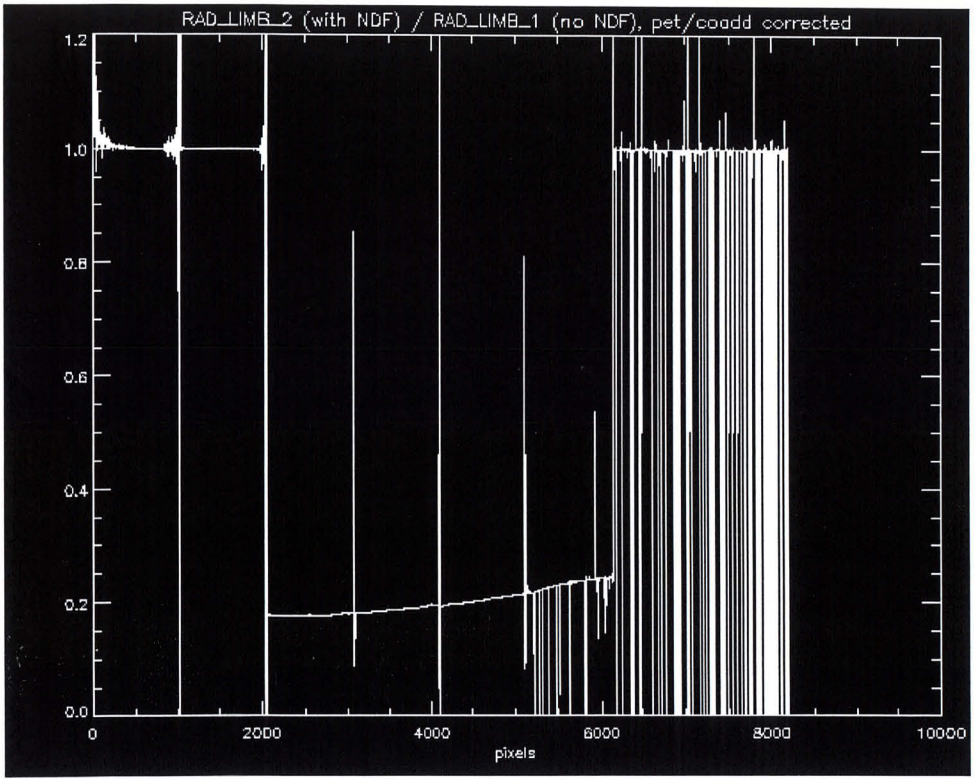
1	64	1	21000	64
2	8	8	18000	64
3	1	64	33000	64
4	0,5	64	38000	32
5	0,5	64	31000	32
6	0,125	64	25000	16
7	0,5	64	30000	32
8	1	64	45000	64

2 NDF

1	64	1	21000	64
2	8	8	18000	64
3	4	16	24000	64
4	2	32	28000	64
5	2	32	25000	64
6	0,5	64	20000	32
7	0,5	64	30000	32
8	1	64	45000	64


Zoomed Detector Data
at 02-08-98 22:40:14
Normalization Mode: cluster
830464
Version: 3.0
Intensity in Counts
6.0×10^4
5.0×10^4
4.0×10^4
3.0×10^4
2.0×10^4
1.0×10^4
0
5500
6000
6500
7000
7500
8000
Pix

Added by A.Bos 05-08-97
after do_ratio 06:00 UTC
corrects for pet/coadd



STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Ralph Snel 3-8-98	
	What's the name of the (main) data input files generated by the EGSE? `(*.dat)`	scia_03081998_023759616	(A)
	Setup a three-window configuration on your SUN.		see course descr.

Cnstr directory	`cd ~/DATA-DIR/RAD-LIMB ; ls -l`
	highest number in directory?
	New directory: `mkdir <B+1>`
	`ls -l`
	What's now the highest number in directory?
	<C> should be <B> + 1
		
		3
		(Y) / N
			Note: In window DATA-DIR
			(B)
			
			(C)

	directory name is:	`~/DATA-DIR/RAD-LIMB/<C>`	(DIR-NAME)
Copy data	See Analysis sheet: Transfer Data File	(Y) / N	In DATA-DIR window
Cnstr EGSE_LTF	`cal_raw2ltf .` (Error messages are not necessarily fatal; check with SOLAN --in solan window-- whether output file is okay: there should be a signal present, and `dremark1` labels should be filled) `ls -l *.egse_ltf` What's the name of the egse_ltf file <D> should be <A>.egse_ltf	 scia_03081998_023759616 (Y) N	Note: In window DATA-DIR; ***don't forget the dot !!!;*** *May take more than 15 mins.* (D)
Cnstr CAL files	`idl run_averscia` (and select file <D> when asked)		Note: In window IDL

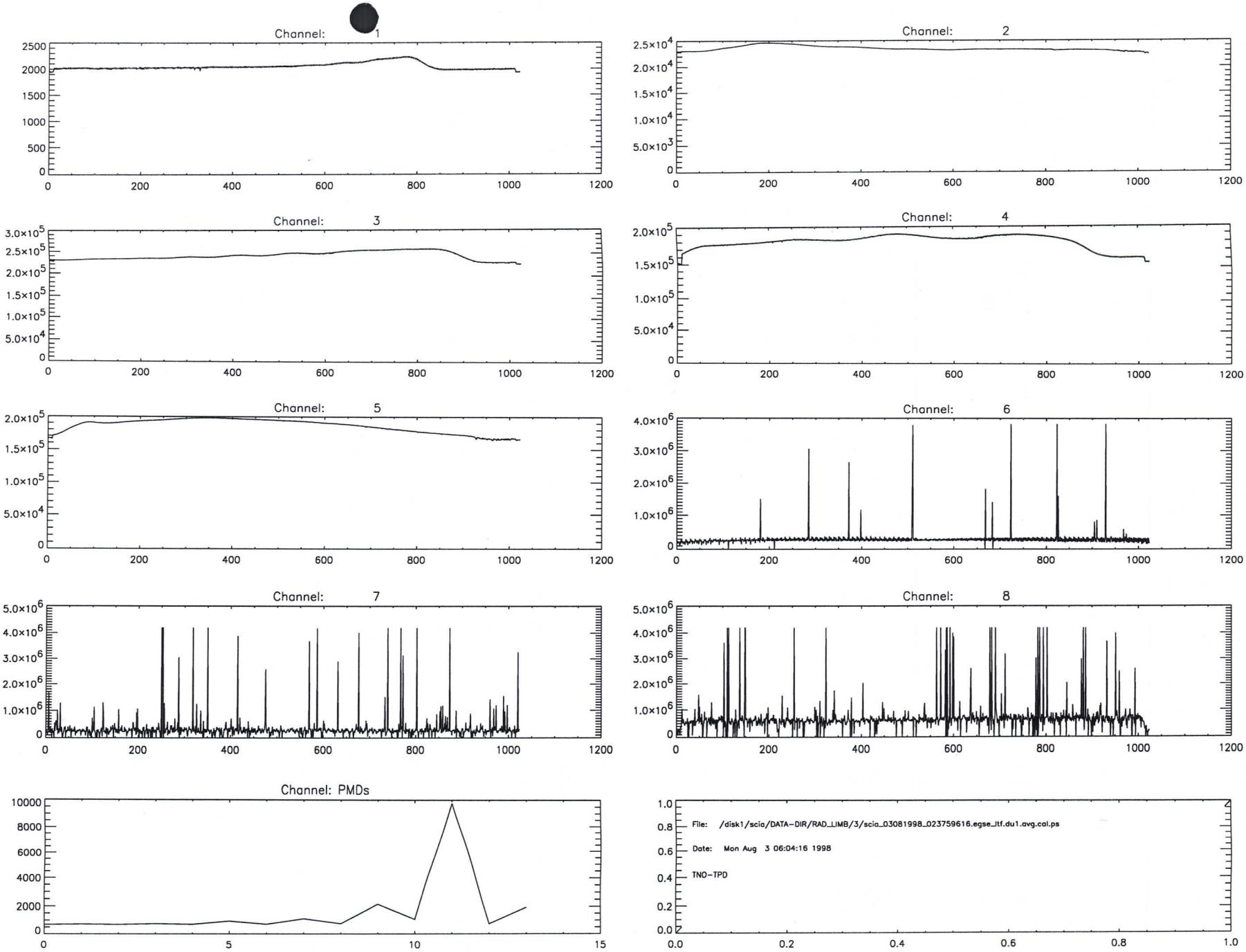
Check CAL files	Dark files:
	`ls -l <DIR-NAME>/*du*.cal`
	size:
	
	`ls -l <DIR-NAME>/*ru*.cal`
		
		150K
			
			should be approx 150Kb

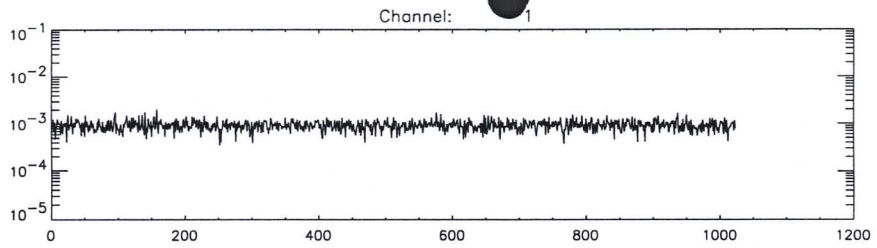
	size:	150	should be approx 150Kb
	Note: all files should be present, if not: (a) Check file <D> using SOLAN and check whether du, and ru labels are present in dremark1 labels (b) Check if enough disk space is available (Unix command `df -k | more`).		
Print postscript	Print postscript files: `lpr -P<printer> *.ps` Contents dark file `*du*.cal.ps` should be approx. constant within channels:	(Y) / N	
	Contents light file `*ru*.cal.ps` should resemble white light source:	(Y) / N	
	Contents of `*rel_std*.ps` files should be smaller than 0.01 (pixel 300 -- 800) for all channels. If not, value is:	(Y) / N	
	Add postscript images to logbook, done	(Y) / N	
Print logfiles	`lpr -P<printer> *.log` Add logfiles to logbook, done	(Y) / N	

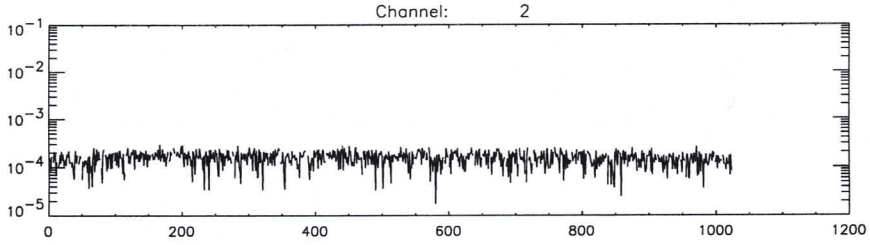
Radiance processing

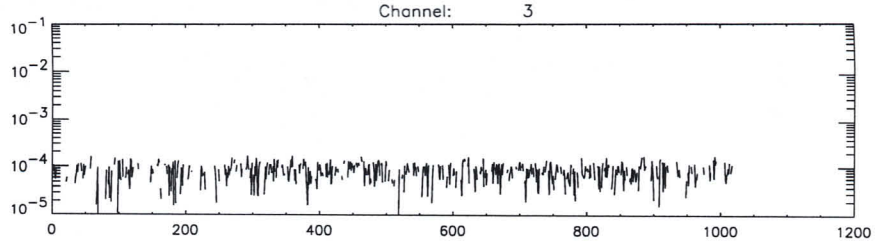
Run radiance	`idl do_radiance`		In IDL window
Check radiance	`ls -l * | more`		In DATA-DIR window
	Size of file `<D>.du*.avg.cal.p1.cal`	150K	should be approx 150Kb
	Size of file `<D>.du*.avg.cal.p2.cal`	150K	

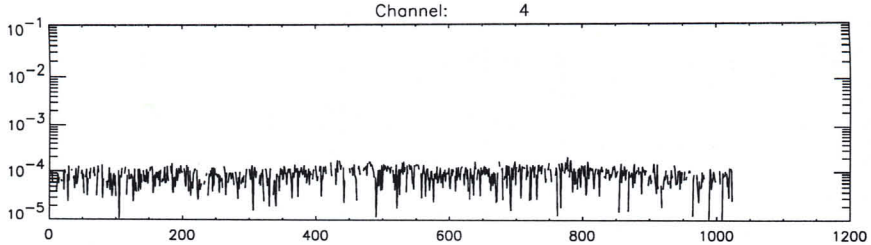
Check radiance visually	`lpr -P<printer> *.p[12] .*.cal.ps`	
	Value of P1 and P2 file resemble white light source?	(Y) / N
	Add postscript images to logbook, done	(Y) / N
Print logfiles	`lpr -P<printer> *.p[12] .cal.log`	
	Add logfiles to logbook, done	(Y) / N
Back up	Create 3 sets of backup CDs of directory <DIR-NAME> (One CD has a capacity of 600 Mbytes, the UNIX command `/usr/bin/du -k .` gives the number of kilo bytes in the current directory).	See analysis sheet BackUp
	Name of backup CDs	030898C
Sign:	Name	Ralph Snel
	Date and time	3-8-98, 4:30
	Signature	Ralph Snel

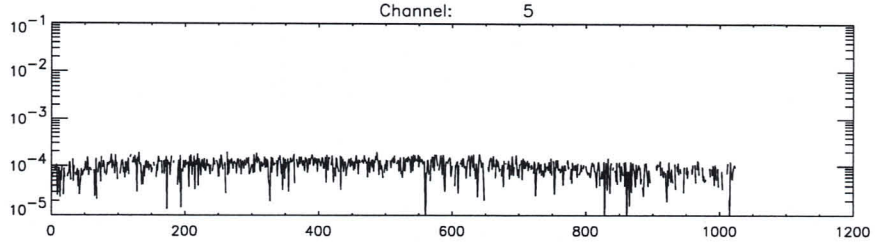

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_LIMB/3/scia_03081998_023759616.egse_ltf.du1.avg.col.ps
Date: Mon Aug 3 06:04:16 1998
TNO-TPD

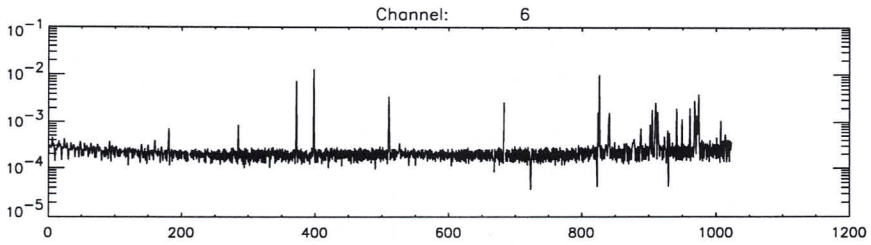

Channel: 1

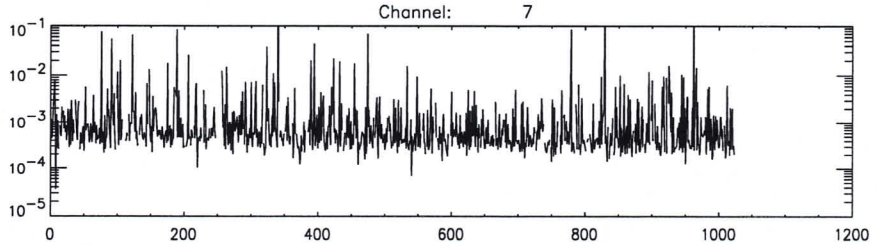

Channel: 2

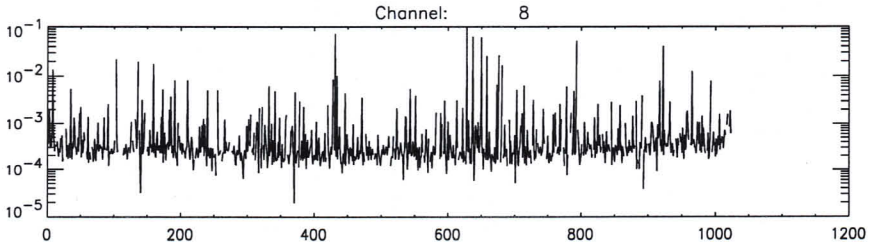

Channel: 3

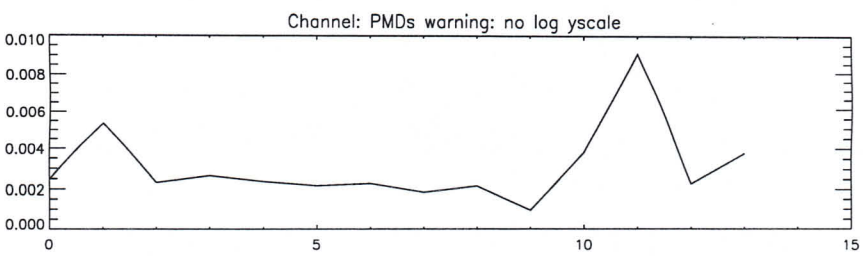

Channel: 4

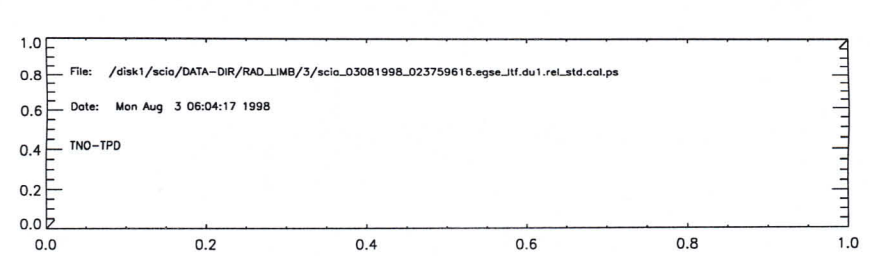

Channel: 5

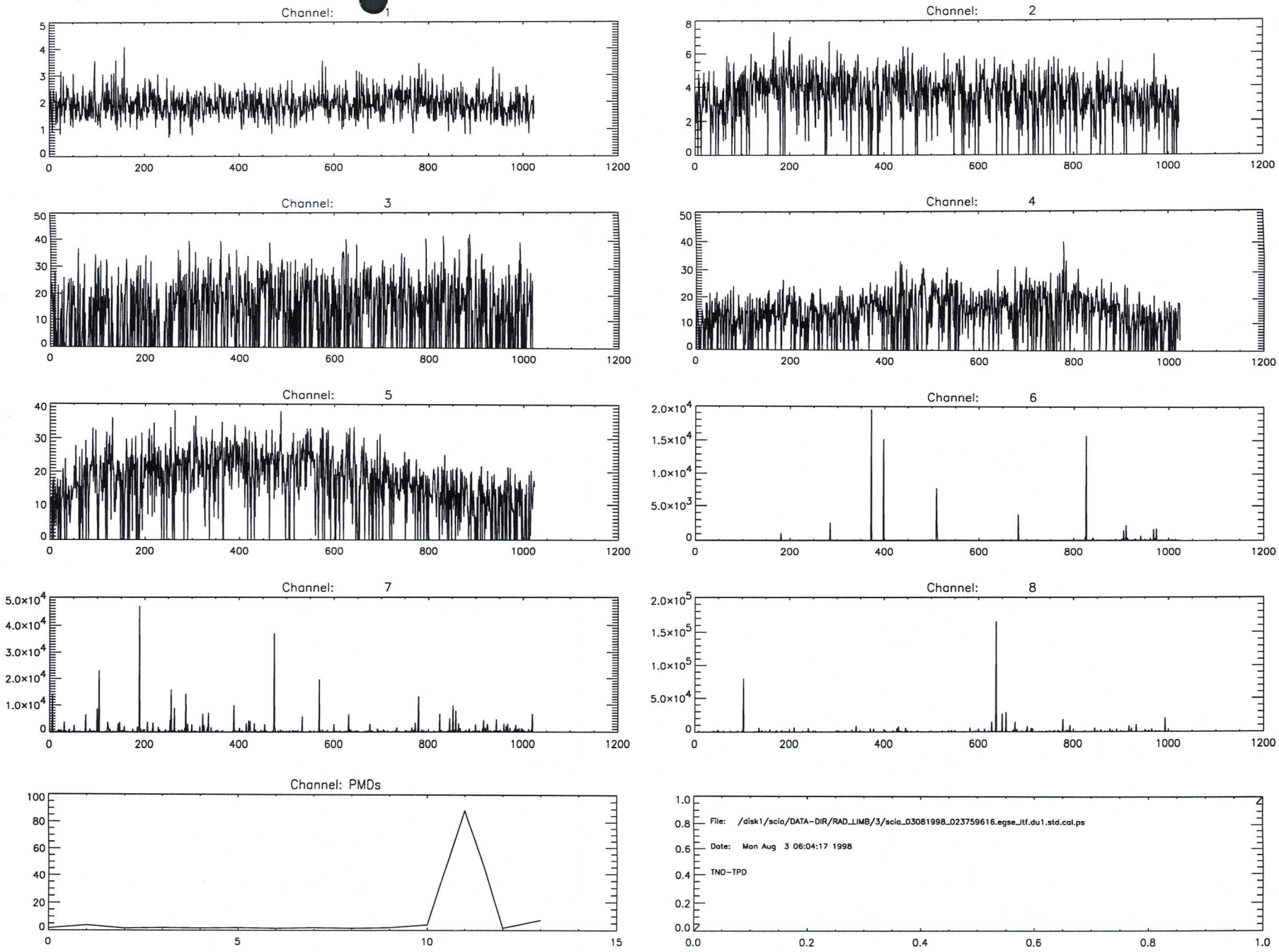

Channel: 6

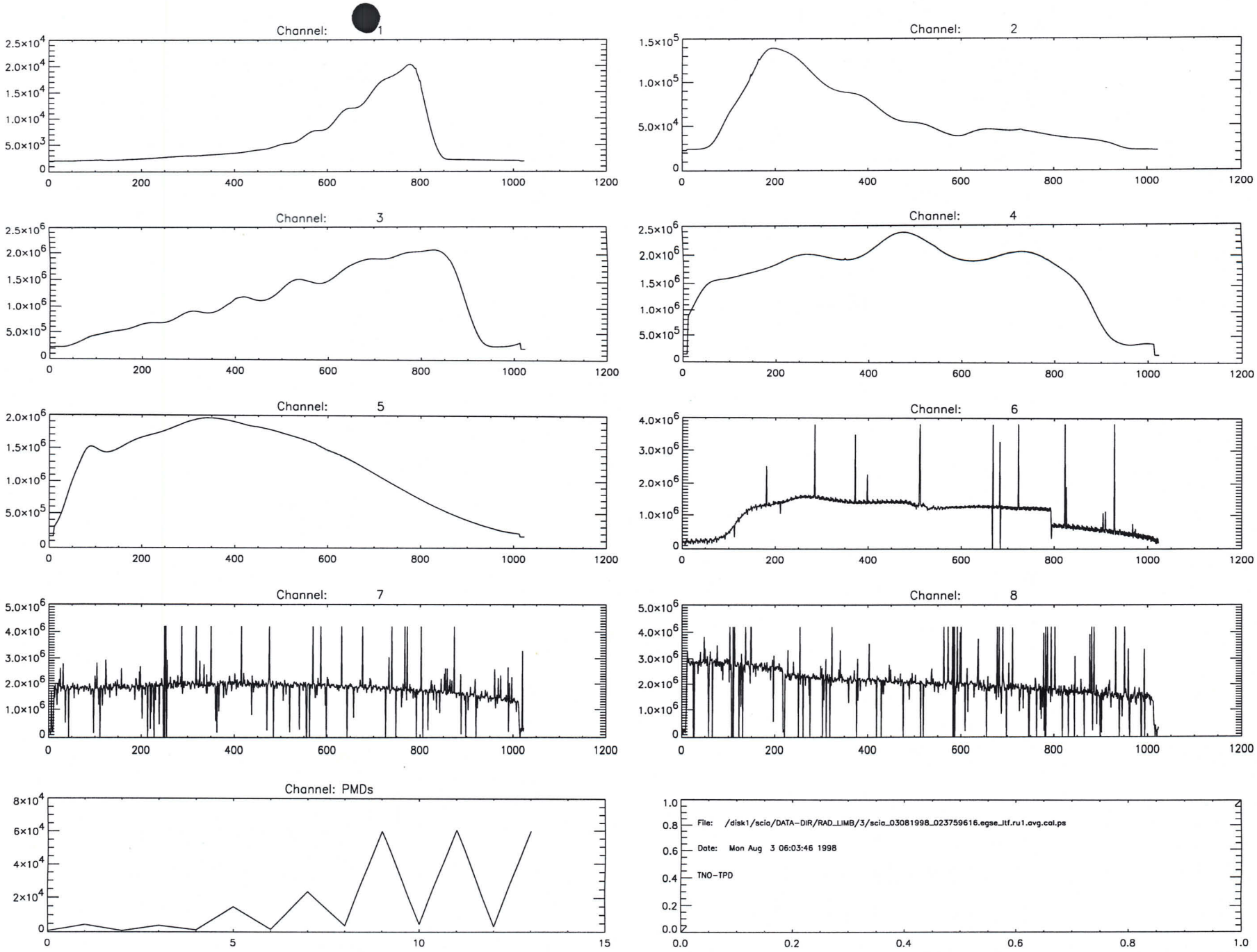

Channel: 7

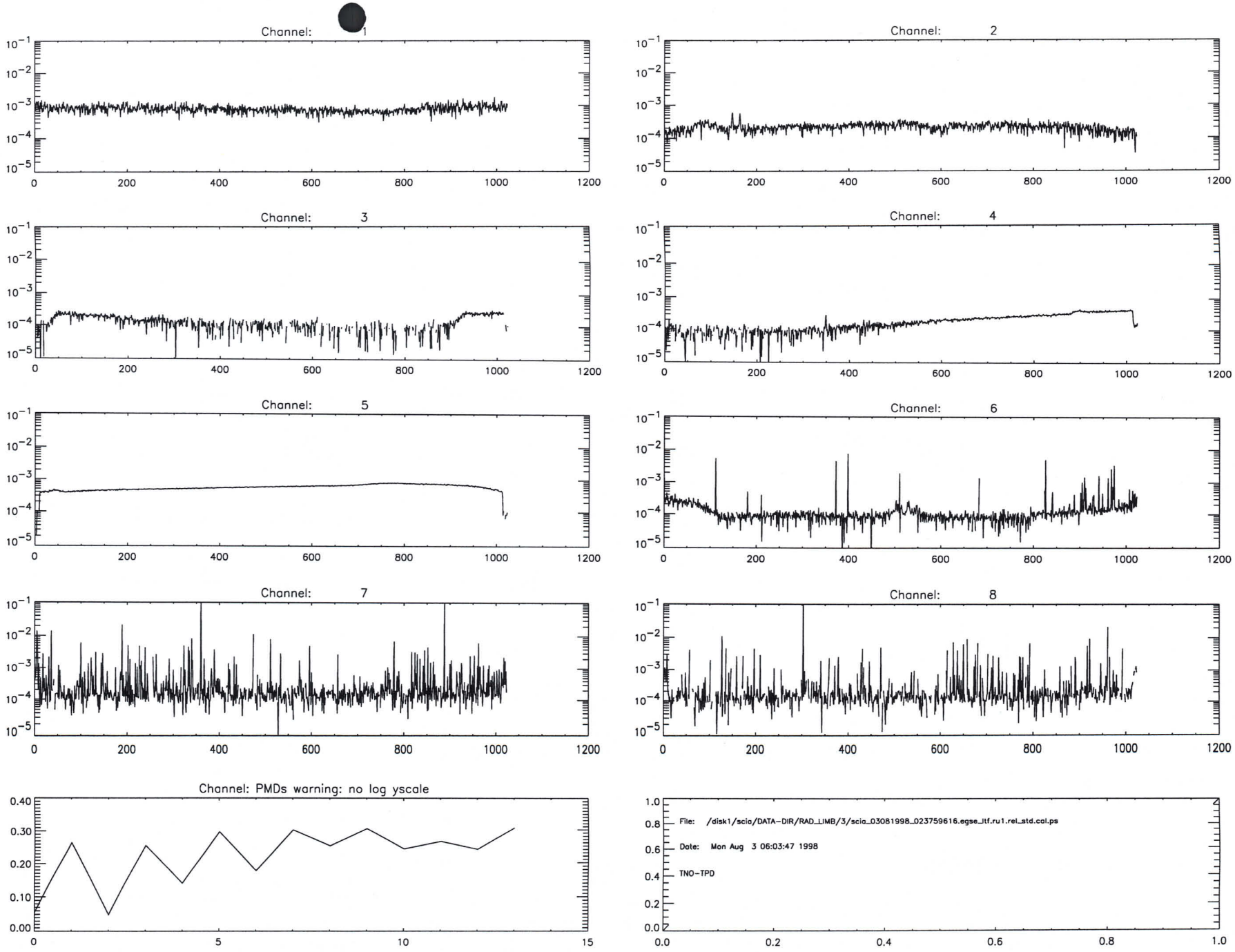

Channel: 8

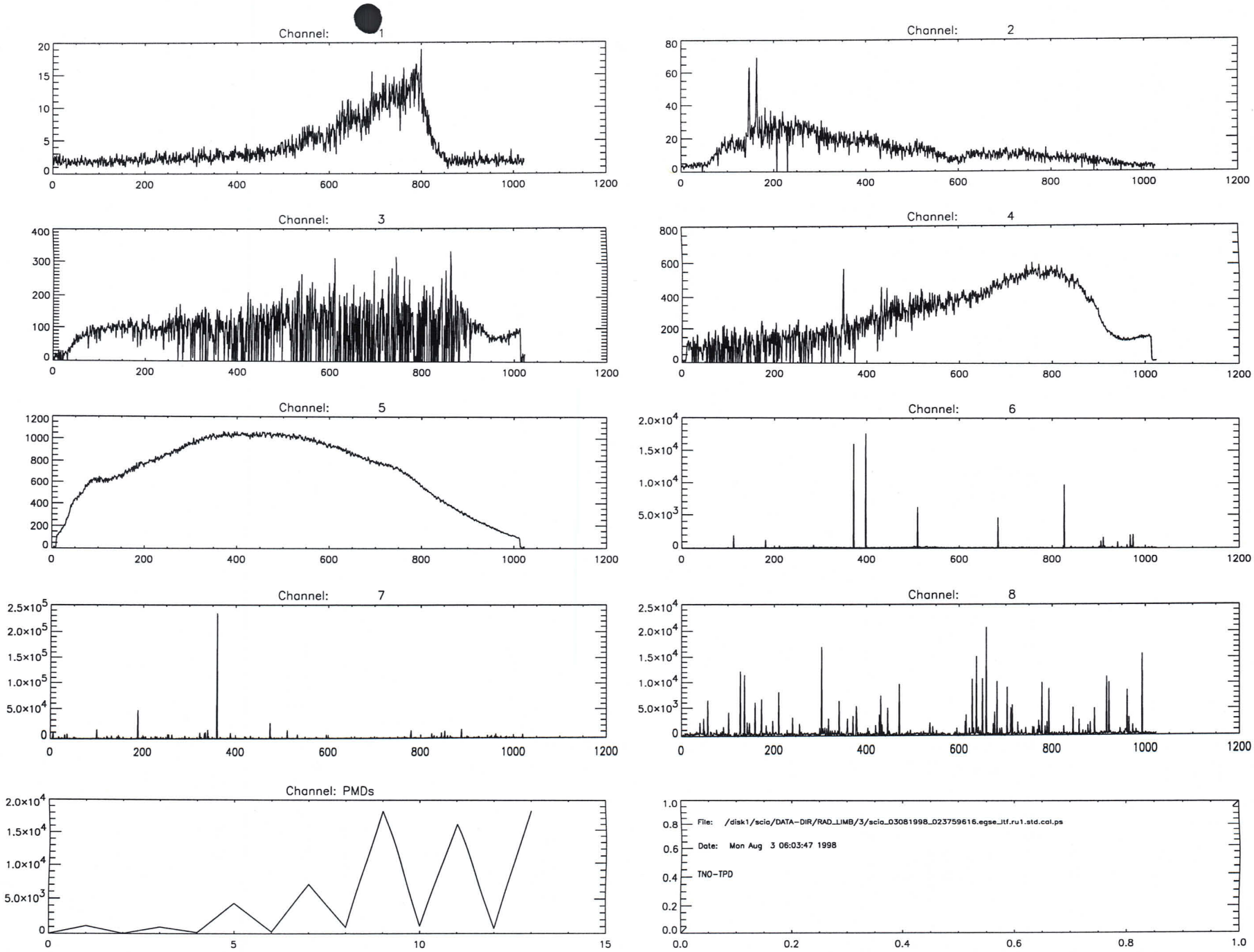

Channel: PMDs warning: no log yscale


File: /disk1/scia/DATA-DIR/RAD_LIMB/3/scia_03081998_023759616.egse_ltf.du1.rel_std.col.ps
Date: Mon Aug 3 06:04:17 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_LIMB/3/scia_03081998_023759616.egse_ltf.du1.std.cal.ps
Date: Mon Aug 3 06:04:17 1998
TNO-TPD

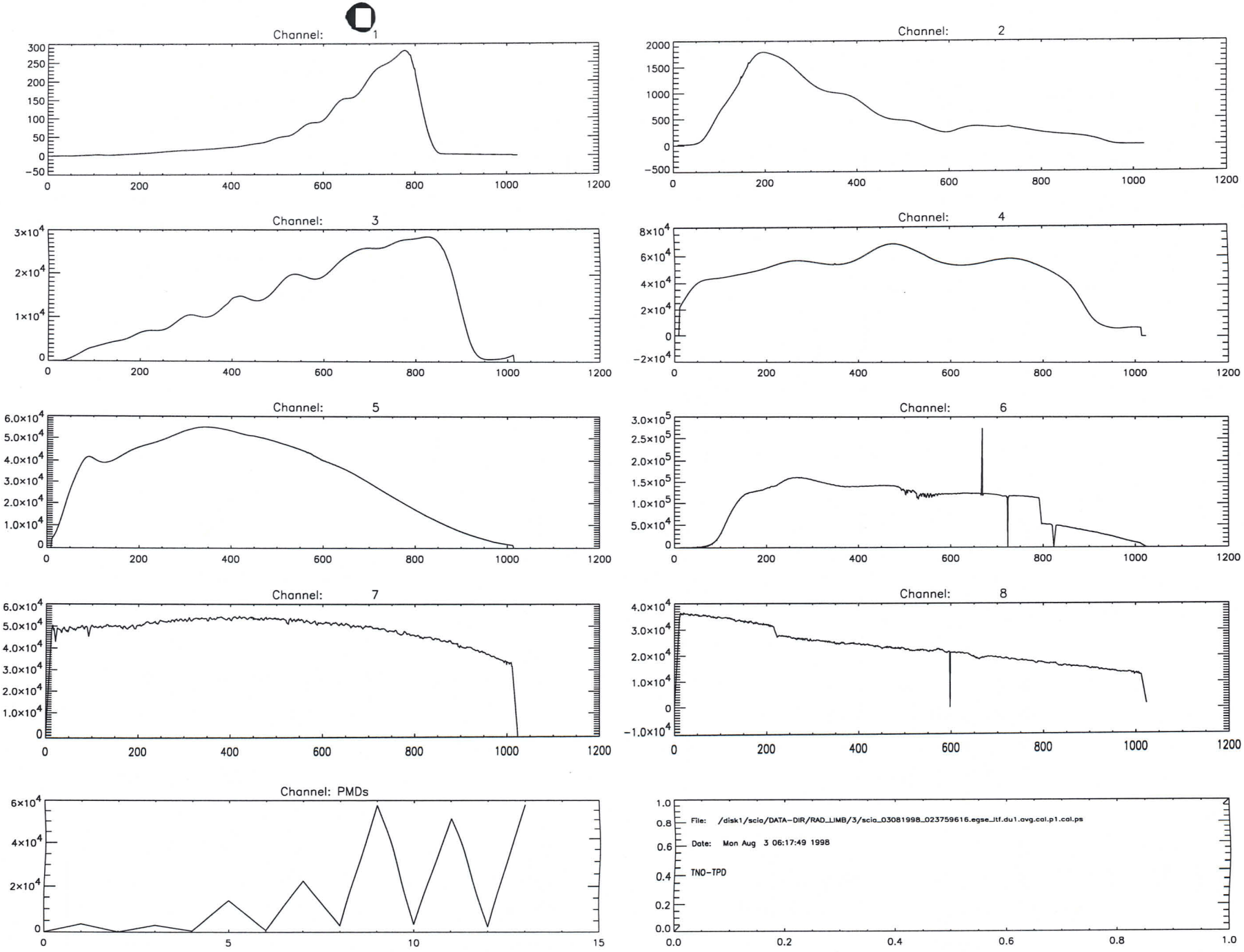

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_LIMB/3/scia_03081998_023759616.egse_itf.ru1.avg.cal.ps
Date: Mon Aug 3 06:03:46 1998
TNO-TPD

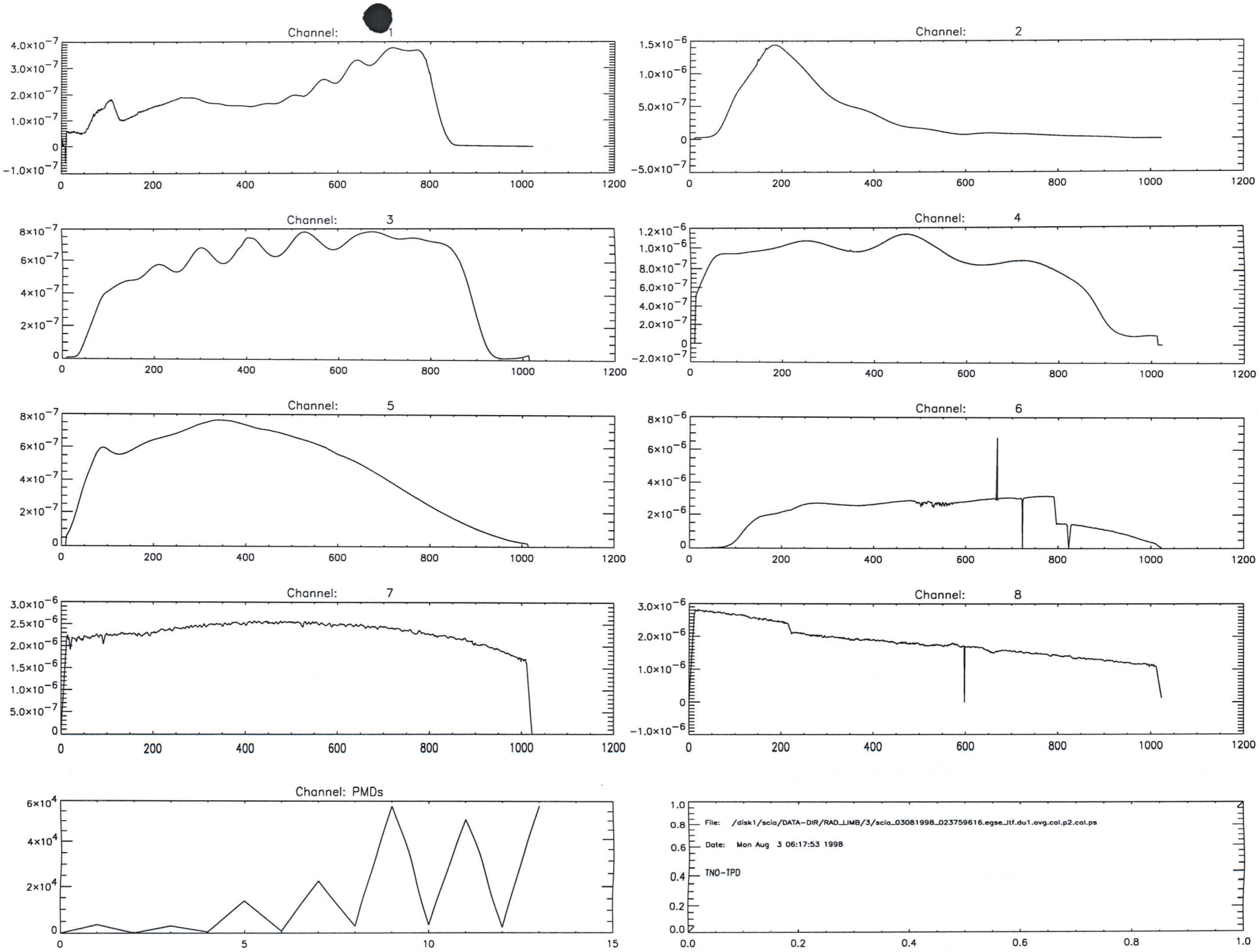

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs warning: no log yscale
File: /disk1/scio/DATA-DIR/RAD_LIMB/3/scia_03081998_023759616.egse_itf.ru1.rel_std.cal.ps
Date: Mon Aug 3 06:03:47 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_LIMB/3/scia_03081998_023759616.egse_itf.ru1.std.cal.ps
Date: Mon Aug 3 06:03:47 1998
TNO-TPD

```
time       = Mon Aug  3 06:04:17 1998
batch      = du1
Start TOD  = Mon 03-Aug-98 02:50:54
End   TOD  = Mon 03-Aug-98 03:02:44
Processing= computation of average, standard dev. and rel.standard dev.
```

```
time       = Mon Aug  3 06:03:47 1998
batch      = ru1
Start TOD = Mon 03-Aug-98 02:38:02
End   TOD = Mon 03-Aug-98 02:50:54
Processing= computation of average, standard dev. and rel.standard dev.
```


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_LIMB/3/scia_03081998_023759616.egse_ltf.du1.avg.col.p1.col.ps
Date: Mon Aug 3 06:17:49 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_LIMB/3/scia_03081998_023759616.egse_ltf.du1.avg.cal.p2.cal.ps
Date: Mon Aug 3 06:17:53 1998
TNO-TPD

Version: 0.1
Input files:

/disk1/scia/DATA-DIR/RAD_LIMB/3/scia_03081998_023759616.egse_ltf.du1.avg.cal
 and

/disk1/scia/DATA-DIR/RAD_LIMB/3/scia_03081998_023759616.egse_ltf.ru1.avg.cal
Action:
Radiance calibration: No correction bsdf, transmission and e_cal
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/latest/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/latest/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/latest/stray.da
Processing time: Mon Aug 3 06:17:49 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_LIMB/3/scia_03081998_023759616.egse_ltf.du1.avg.cal.p
Ambient files:
Ambient Correction file versions ac_ucp = # VERSION 0.0
ac_ucs = #VERSION 0.0
ala4lp = #VERSION 0.0
a]a4ls = #VERSION 0.0
ć 4lx = #VERSION 0.0
alamlp = #VERSION 0.0
alamls = #VERSION 0.0
alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
alaulp = #VERSION 0.0
alauls = #VERSION 0.0
anapnp = #VERSION 0.0
anapnx = #VERSION 0.0
anaunp = #VERSION 0.0 ASAP data
anauns = #VERSION 0.0 ASAP data
bsdf = #Date: 15/06/98 NOTE: This is preliminary data! The final keydata must
optec_window = #VERSION 0.0
reflectance = #VERSION 0.0

```
Version:  0.1
Input files:

/disk1/scia/DATA-DIR/RAD_LIMB/3/scia_03081998_023759616.egse_ltf.du1.avg.cal
 and

/disk1/scia/DATA-DIR/RAD_LIMB/3/scia_03081998_023759616.egse_ltf.ru1.avg.cal
Action:
Generation of PS file
Radiance calibration: No correction bsdf, transmission and e_cal
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/latest/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/latest/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/latest/stray.da
Processing time: Mon Aug  3 06:17:49 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_LIMB/3/scia_03081998_023759616.egse_ltf.du1.avg.cal.p
Ambient files:
Ambient Correction file versions ac_ucp = # VERSION 0.0
ac_ucs = #VERSION 0.0
ala4lp = #VERSION 0.0
ć  4ls = #VERSION 0.0
ala4lx = #VERSION 0.0
alamlp = #VERSION 0.0
alamls = #VERSION 0.0
alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
alaulp = #VERSION 0.0
alauls = #VERSION 0.0
anapnp = #VERSION 0.0
anapnx = #VERSION 0.0
anaunp = #VERSION 0.0 ASAP data
anauns = #VERSION 0.0 ASAP data
bsdf = #Date: 15/06/98 NOTE: This is preliminary data! The final keydata must
optec_window = #VERSION 0.0
reflectance = #VERSION 0.0
```

Version: 0.1
Input files:

/disk1/scia/DATA-DIR/RAD_LIMB/3/scia_03081998_023759616.egse_ltf.du1.avg.cal
 and

/disk1/scia/DATA-DIR/RAD_LIMB/3/scia_03081998_023759616.egse_ltf.ru1.avg.cal
Action:
Radiance calibration + divided by calibrated irradiance + divded by bsdf + div
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/latest/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/latest/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/latest/stray.da
Processing time: Mon Aug 3 06:17:53 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_LIMB/3/scia_03081998_023759616.egse_ltf.du1.avg.cal.p
Ambient files:
Ambient Correction file versions ac_ucp = # VERSION 0.0
ac_ucs = #VERSION 0.0
ala4lp = #VERSION 0.0
ala4ls = #VERSION 0.0
a 4lx = #VERSION 0.0
alamlp = #VERSION 0.0
alamls = #VERSION 0.0
alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
alaulp = #VERSION 0.0
alauls = #VERSION 0.0
anapnp = #VERSION 0.0
anapnx = #VERSION 0.0
anaunp = #VERSION 0.0 ASAP data
anauns = #VERSION 0.0 ASAP data
bsdf = #Date: 15/06/98 NOTE: This is preliminary data! The final keydata must
optec_window = #VERSION 0.0
reflectance = #VERSION 0.0

```
Version:  0.1
Input files:

/disk1/scia/DATA-DIR/RAD_LIMB/3/scia_03081998_023759616.egse_ltf.du1.avg.cal
 and

/disk1/scia/DATA-DIR/RAD_LIMB/3/scia_03081998_023759616.egse_ltf.ru1.avg.cal
Action:
Generation of PS file
Radiance calibration + divided by calibrated irradiance + divded by bsdf + div
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/latest/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/latest/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/latest/stray.da
Processing time: Mon Aug  3 06:17:53 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_LIMB/3/scia_03081998_023759616.egse_ltf.du1.avg.cal.p
Ambient files:
Ambient Correction file versions ac_ucp = # VERSION 0.0
ac_ucs = #VERSION 0.0
ala4lp = #VERSION 0.0
a  4ls = #VERSION 0.0
ala4lx = #VERSION 0.0
alamlp = #VERSION 0.0
alamls = #VERSION 0.0
alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
alaulp = #VERSION 0.0
alauls = #VERSION 0.0
anapnp = #VERSION 0.0
anapnx = #VERSION 0.0
anaunp = #VERSION 0.0 ASAP data
anauns = #VERSION 0.0 ASAP data
bsdf = #Date: 15/06/98 NOTE: This is preliminary data! The  final keydata must
optec_window = #VERSION 0.0
reflectance = #VERSION 0.0
```

Pagenumber: 1

LOG SHEET SCIAMACHY CALIBRATION

date/time	description of action	measuremement filename
02-08-1998 21:09 UT	DM temps: 219.4 219.0 232.1 231.1 230.0 216.5 159.6 156.4	
	ETALON: the low/high DM temperatures cause QE effects which are interpreted as etalon if a single "start of calibration" WLS reference spectrum is used. Two SCC WLS spectra need to be defined, both for low and high DM temperatures.	Answer of A.Bos ⇒ see ~~next~~ sheet 5
22:02 UT	DM temps: 219.4 219.0 232.2 231.0 230.0 216.5 159.6 156.4	
22:10 UT	FEL lamp + spectralon diffuser at min +0.5 OBM: -17.9 C	
22:25 UTC	correctiefiles van meting WLS/2 naar WLS/latest gecopieerd. We hadden daar de files van WLS/4 laten plaatsen, maar deze metingen (en dus correcties) zijn bij een andere temperatuur gedraaid.	
23:38 UT	software check of ETA_UVVIS	
	Nadat de Optical stimuli PC een aantal uren niets heeft uitgevoerd krijg je een fout wanneer hij een nieuwe meting wordt gestuurt. Dit moet Dornier glossen of er moet een workaround glossing worden bedacht (e.g. OS PC resetten of zoiets)	

Pagenumber: 2

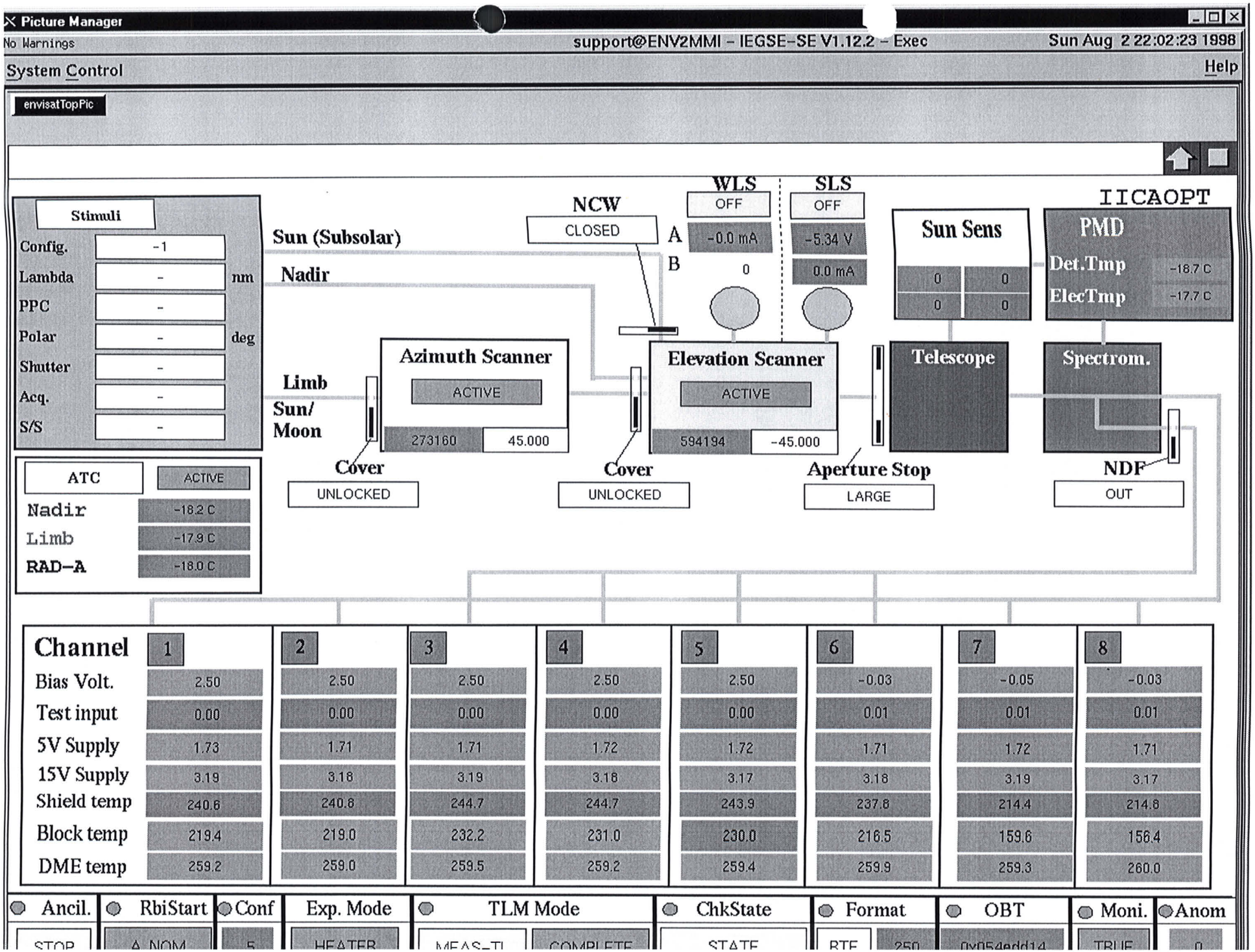
LOG SHEET SCIAMACHY CALIBRATION

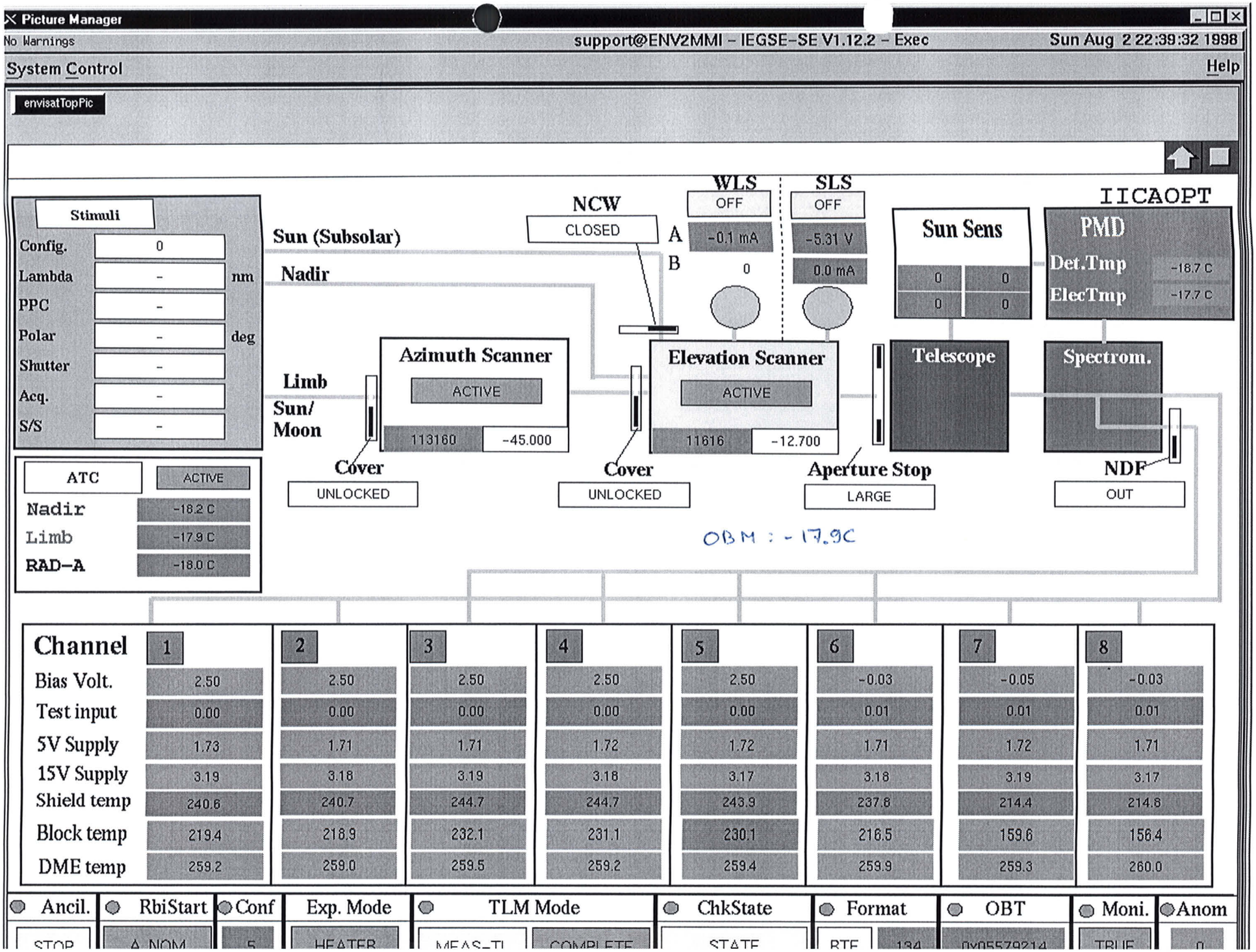
	date/time	description of action	measuremement filename
	3-8, 01:20	GEN_NDF_LIMB, FEC, spectralon diffuser, min+0.5, UID 38	scia_03081998
			_011942245.dat
	02:39	GEN_LIMB FEL, spectralon diffuser, min, UID 23	scia_03081998_023759616

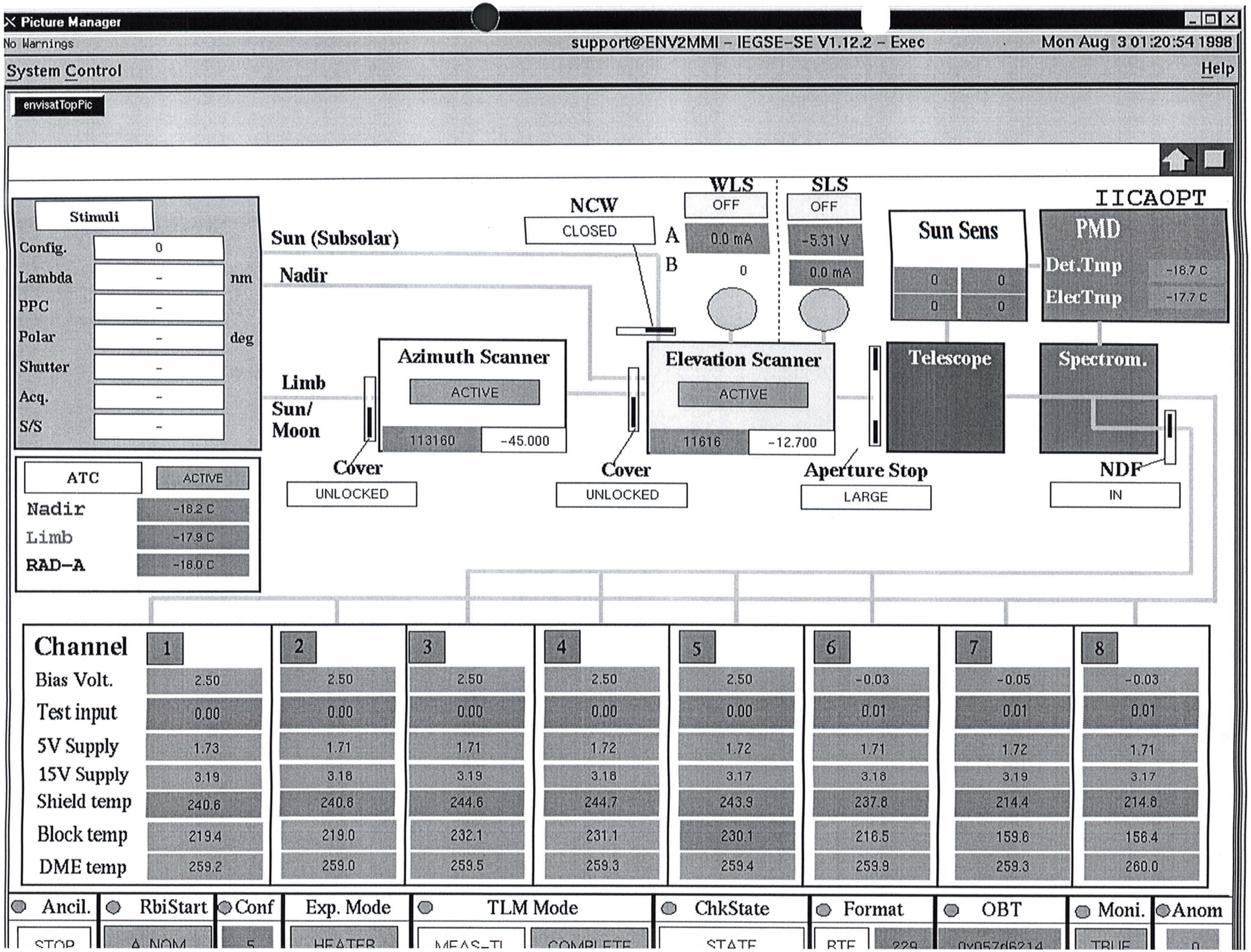
Pagenumber: 3

LOG SHEET SCIAMACHY CALIBRATION

date/time	description of action	measuremement filename
030898	A. Bos created two subdirectories	
05:15-UTC	of START-OF-CAL Directory:	
	~/DATA-DIR/START-OF-CAL/START-OF-CAL-COLD	
	~/DATA-DIR/START-OF-CAL/START-OF-CAL-WARM	


Picture Manager
No Warnings
support@ENV2MMI - IEGSE-SE V1.12.2 - Exec
Sun Aug 2 22:02:23 1998
System Control
Help
envisatTopPic
Stimuli
Config. -1
Lambda - nm
PPC -
Polar - deg
Shutter -
Acq. -
S/S -
Sun (Subsolar)
Nadir
Limb
Sun/
Moon
NCW
CLOSED
WLS
OFF
A
-0.0 mA
B
0
SLS
OFF
-5.34 V
0.0 mA
Sun Sens
0 0
0 0
IICAOPT
PMD
Det.Tmp -18.7 C
ElecTmp -17.7 C
Azimuth Scanner
ACTIVE
273160 45.000
Elevation Scanner
ACTIVE
594194 -45.000
Telescope
Spectrom.
Cover
UNLOCKED
Cover
UNLOCKED
Aperture Stop
LARGE
NDF
OUT
ATC ACTIVE
Nadir -18.2 C
Limb -17.9 C
RAD-A -18.0 C
Channel 1 2 3 4 5 6 7 8
Bias Volt. 2.50 2.50 2.50 2.50 2.50 -0.03 -0.05 -0.03
Test input 0.00 0.00 0.00 0.00 0.00 0.01 0.01 0.01
5V Supply 1.73 1.71 1.71 1.72 1.72 1.71 1.72 1.71
15V Supply 3.19 3.16 3.19 3.16 3.17 3.16 3.19 3.17
Shield temp 240.6 240.6 244.7 244.7 243.9 237.8 214.4 214.8
Block temp 219.4 219.0 232.2 231.0 230.0 216.5 159.6 156.4
DME temp 259.2 259.0 259.5 259.2 259.4 259.9 259.3 260.0
Ancil.
STOP
RbiStart
A_NOM
Conf
5
Exp. Mode
HEATER
TLM Mode
MEAS_TL
COMPLETE
ChkState
STATE
Format
RTE
250
OBT
0x054edd14
Moni.
TRUE
Anom
0


Picture Manager
No Warnings
support@ENV2MMI - IEGSE-SE V1.12.2 - Exec
Sun Aug 2 22:39:32 1998
System Control
Help
envisatTopPic
Stimuli
Config. 0
Lambda - nm
PPC -
Polar - deg
Shutter -
Acq. -
S/S -
ATC ACTIVE
Nadir -18.2 C
Limb -17.9 C
RAD-A -18.0 C
Sun (Subsolar)
Nadir
Limb
Sun/
Moon
NCW
CLOSED
WLS
OFF
A -0.1 mA
B 0
SLS
OFF
-5.31 V
0.0 mA
Sun Sens
0 0
0 0
IICAOPT
PMD
Det.Tmp -18.7 C
ElecTmp -17.7 C
Azimuth Scanner
ACTIVE
113160 -45.000
Elevation Scanner
ACTIVE
11616 -12.700
Telescope
Spectrom.
Cover
UNLOCKED
Cover
UNLOCKED
Aperture Stop
LARGE
NDF
OUT
OBM : -17.9C
Channel 1 2 3 4 5 6 7 8
Bias Volt. 2.50 2.50 2.50 2.50 2.50 -0.03 -0.05 -0.03
Test input 0.00 0.00 0.00 0.00 0.00 0.01 0.01 0.01
5V Supply 1.73 1.71 1.71 1.72 1.72 1.71 1.72 1.71
15V Supply 3.19 3.18 3.19 3.18 3.17 3.18 3.19 3.17
Shield temp 240.6 240.7 244.7 244.7 243.9 237.8 214.4 214.8
Block temp 219.4 218.9 232.1 231.1 230.1 216.5 159.6 156.4
DME temp 259.2 259.0 259.5 259.2 259.4 259.9 259.3 260.0
Ancil. RbiStart Conf Exp. Mode TLM Mode ChkState Format OBT Moni. Anom
STOP A_NOM 5 HEATER MEAS_TI COMPLETE STATE RTE 134 0x05579214 TRUE 0



UTC 1.25

UID 38

limb nui+0.5°
+ND filter

Pagenumber:

LOG SHEET SCIAMACHY CALIBRATION

date/time	description of action	measurement filename
3-8-'98	After moving FEL-lamb and putting it back on minimum distance; second 4-4 radiance limb measurement.	SCIA_03081998_053917899
	FEL on: 7.22 UTC	
	start measurement: ± 7.40 UTC	
	end measurement / FEL off: 8.10 UTC	
	Remarks: - lights on in neighbouring hall gave some straylight through upper windows.	
	- HP 34401 A multimeter voltage varied from 8200.1 V (start) - 8199.6 V (end meas.)	
	RATIO with previous RAD_LIMB measurement @ end-of-this pack	

Formal Run of Measurement

(Measurement ID) GEN_LIMB

Request for Actual Status		(cross out entries that are **not** requested.)
Request for Modification		(fill in only entries to be modified)
Request for Run	X	(no entries = run based on actual default settings)

Scanner Positions

Azimuth	-45	deg
Elevation	-12,7	deg

Timeline for each Data Acquisition Period during Measurement

	1	2	3	4	5	6	7	8	9	10
State ID	37									
Repetitions	10									

State Parameters for States used in Timeline (State ID must be given)

Channel	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding
1a	64	1						
1b	64	1						
2b	8	8						
2a	8	8						
3	1	64						
4	0,5	64						
5	0,5	64						
6	0,125	64						
7	0,5	64						
8	1	64						
State ID								

Stimuli Settings for Existing Blocks in Measurement

Block No	Stimuli Setup ID	PPC [deg]	Polarizer [deg]	Shutter open/close	Acquisition Time [s]	Lambda [nm] Start	Stop	Step	Repetition Factor	Message	OS Setup Time [s]
1	0	-	-	-	-	-	-	0	1	RU1	
2	0	-	-	-	-	-	-	0	1	DU1	

Measurement Data Description

Test Purpose	UID 23
Remark	
Data Directory	0215_05.36.05_GEN_LIMB

Signatures

	Date	Signature
Issued	3-8-'98	
< Performed	3-8-99	

Picture Manager

No Warnings | support@ENV2MMI - IEGSE-SE V1.12.2 - Exec | Mon Aug 3 06:08:19 1998

System Control | Help

envisatTopPic

picture title

IIGDETTMP

Detector 2,4,6 Temp

240
235
230
225
220
215
210
205
200

DET 2 °C

DET 4 °C

DET 6 °C

Detector 7-8 Temp

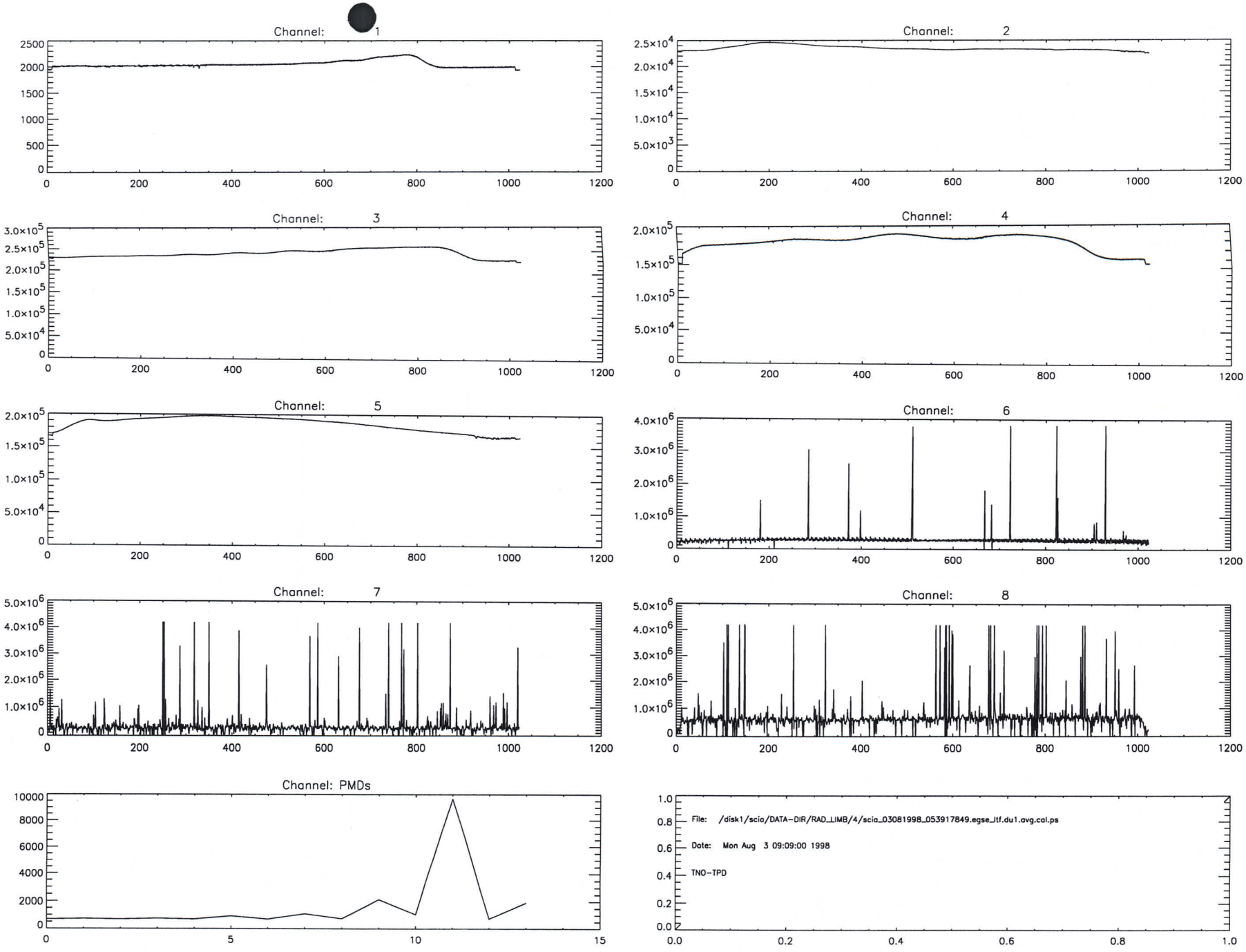
180
175
170
165
160
155
150
145
140

DET 7 °C

DET 8 °C

Start | Exceed | xterm | TRDB | WS_FTP95... | Picture ... | Microsoft A... | Microsoft E... | Microsoft W... | Exploring - ... | 06:13

03.007
UTC:
06:15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Channel: 7
Channel: 8
Channel: PMDs
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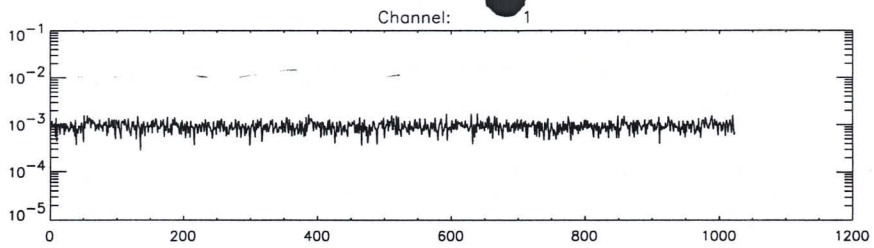
Date: Mon Aug 3 09:09:00 1998
TNO-TPD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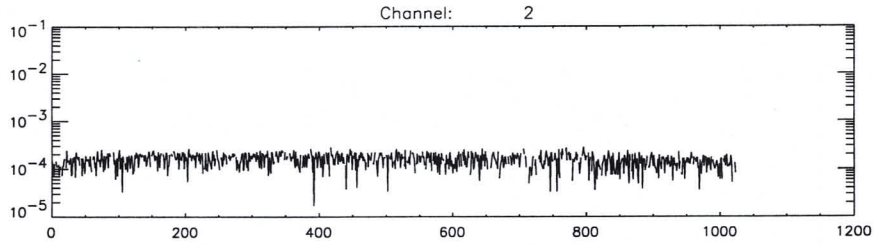
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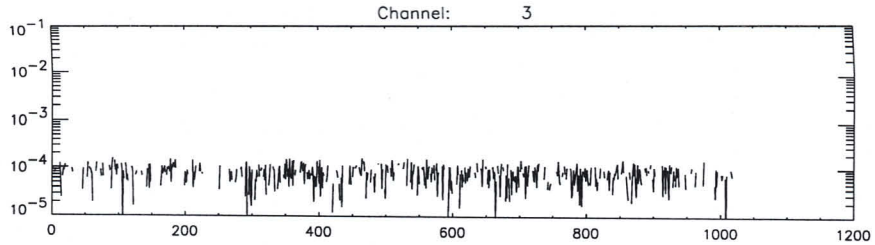
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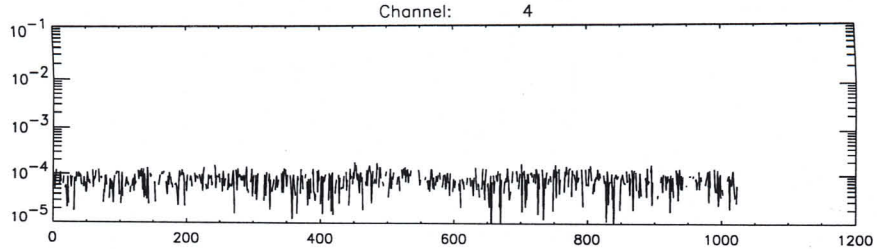
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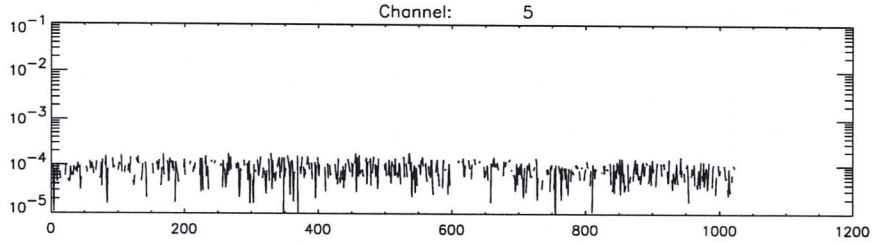
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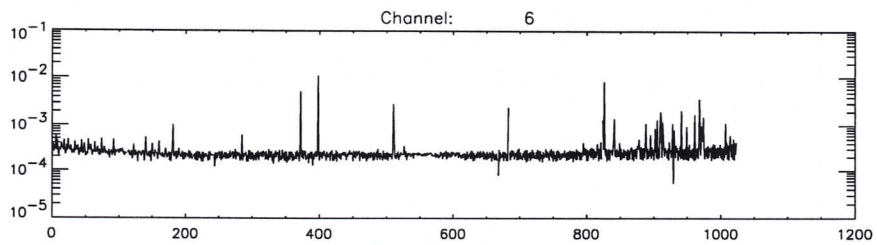
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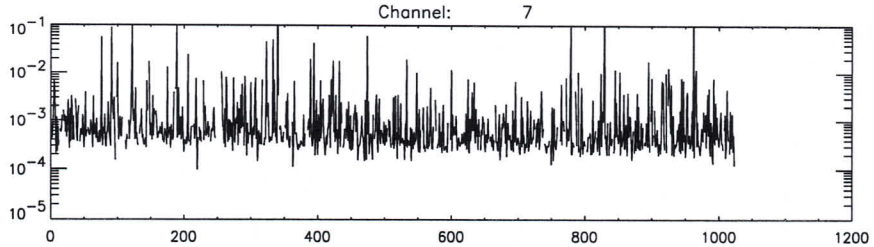
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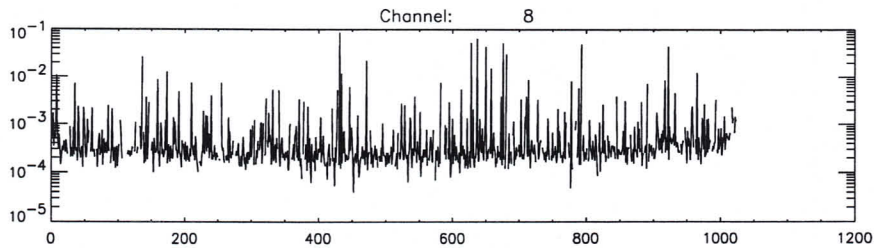
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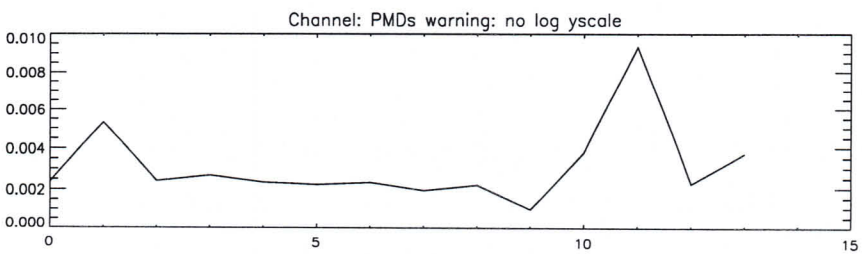
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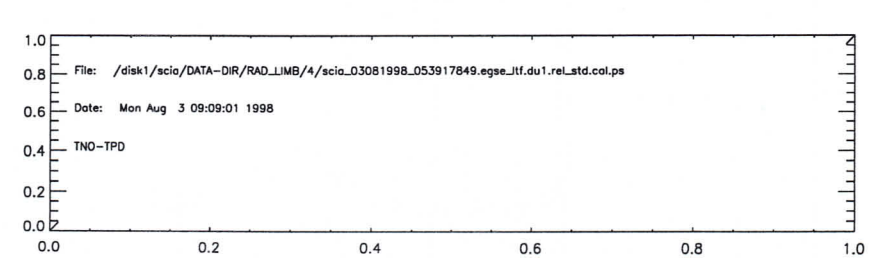
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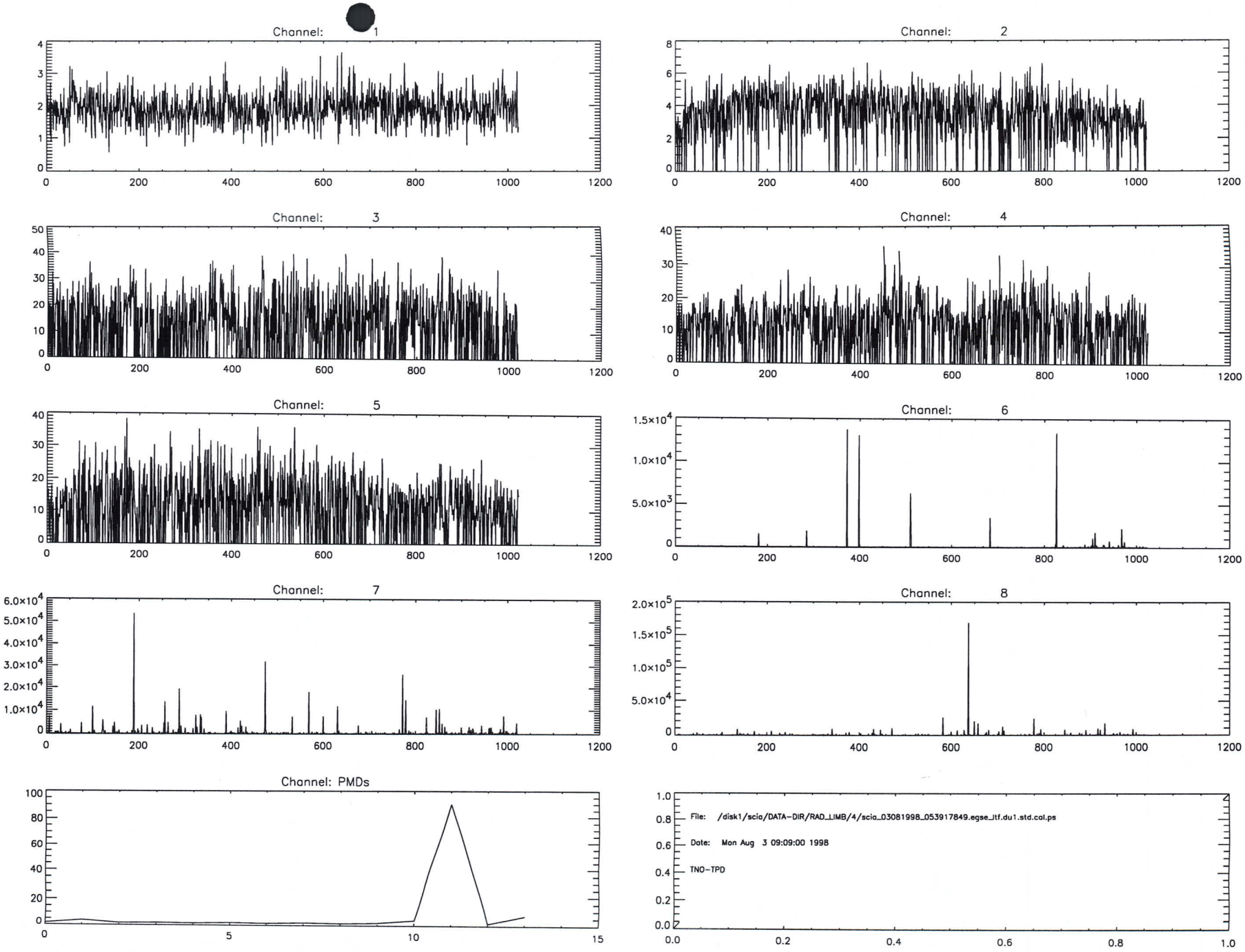
Date: Mon Aug 3 09:09:01 1998
TNO-TPD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Channel: 6
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Date: Mon Aug 3 09:09:00 1998
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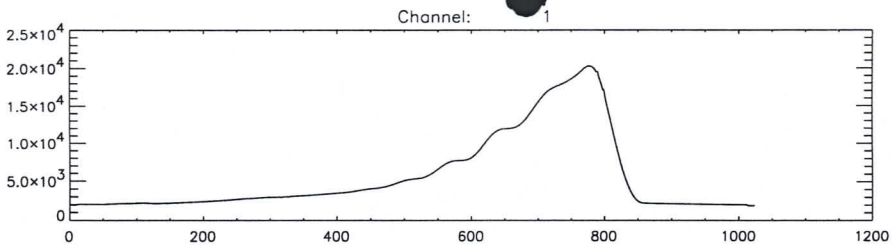
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1000
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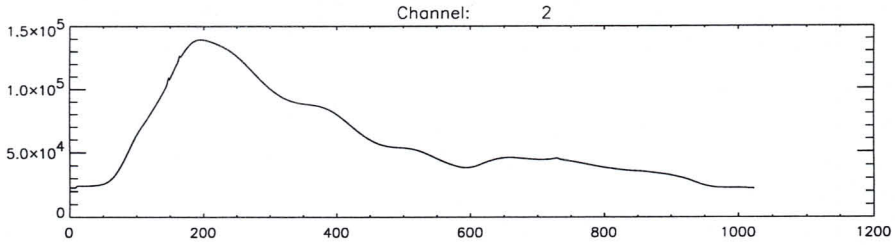
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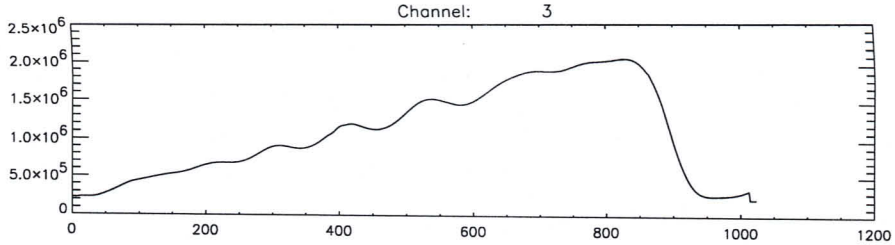
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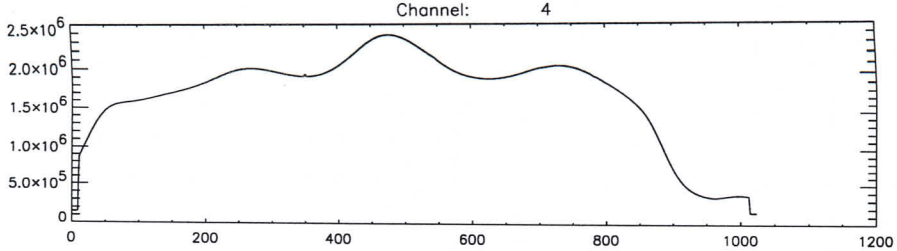
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1000
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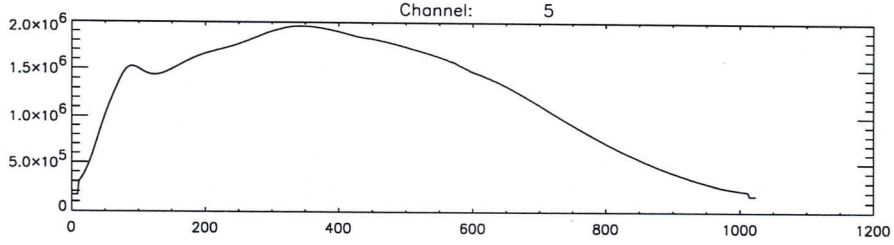
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1.0×10^6
5.0×10^5
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800
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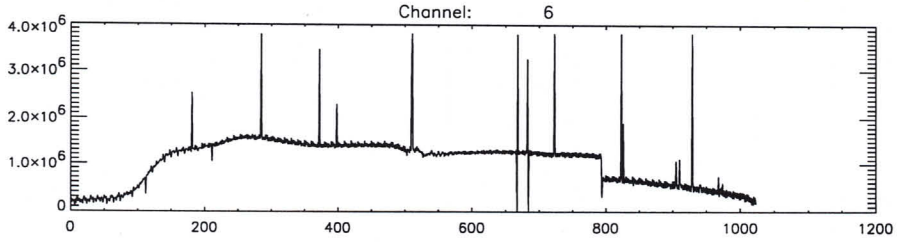
1200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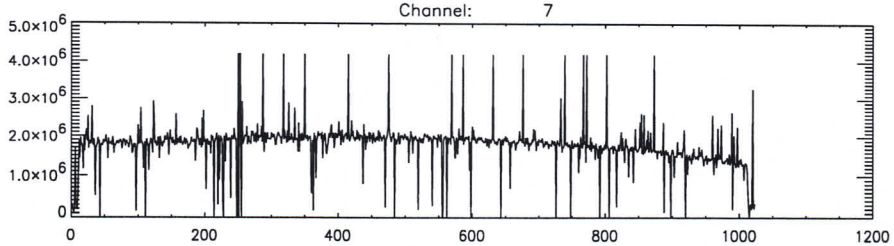
1000
1200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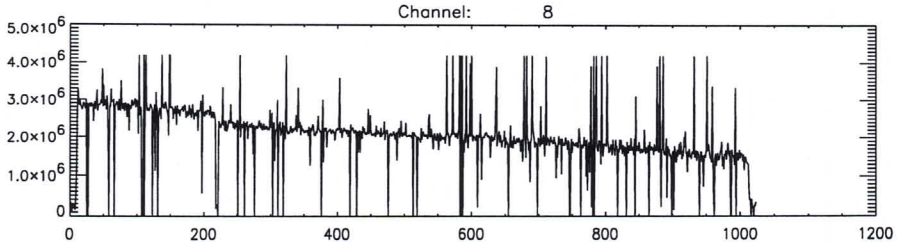
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1000
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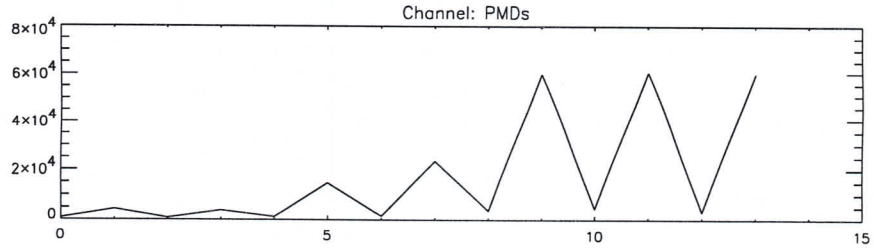
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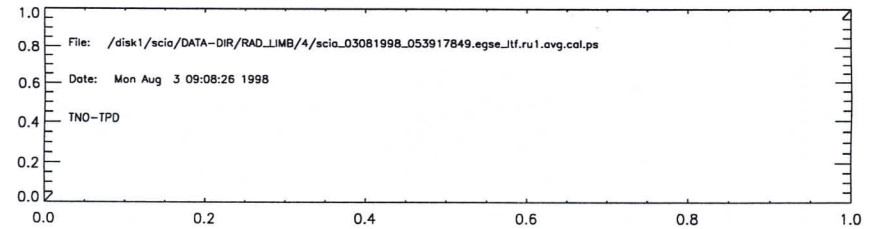
10
15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Date: Mon Aug 3 09:08:26 1998
TNO-TPD
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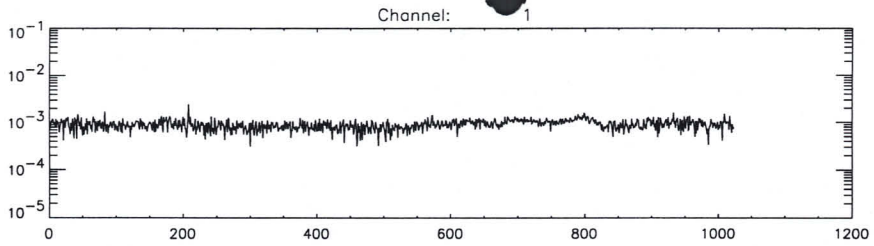
0.6
0.8
1.0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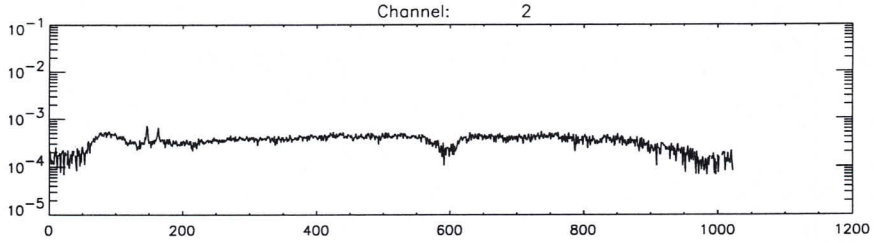
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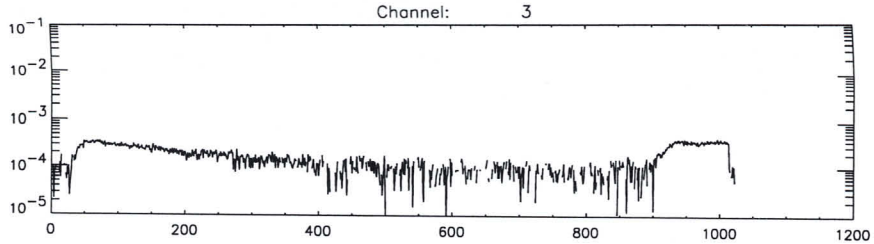
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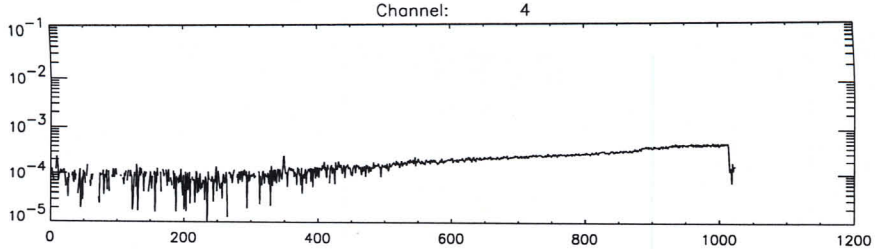
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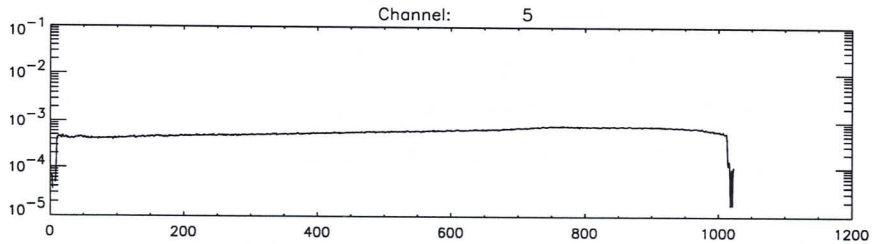
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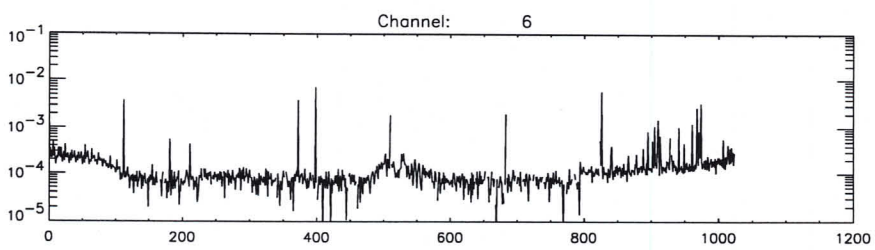
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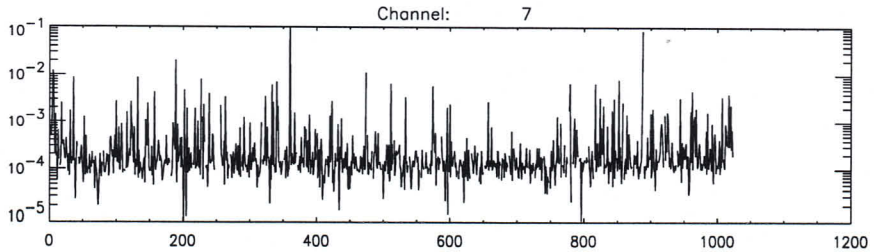
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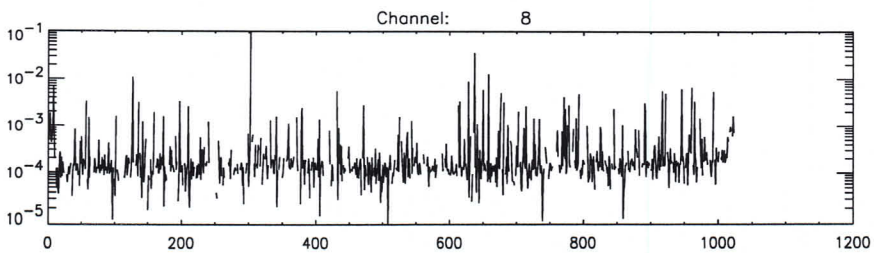
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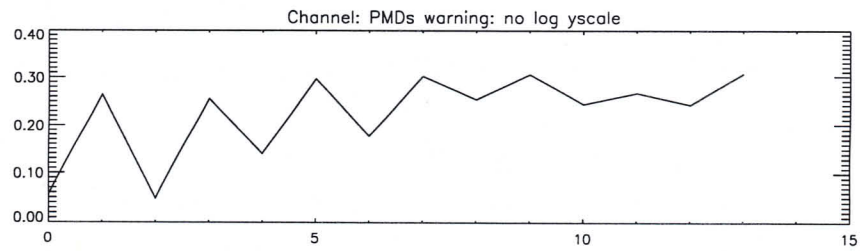
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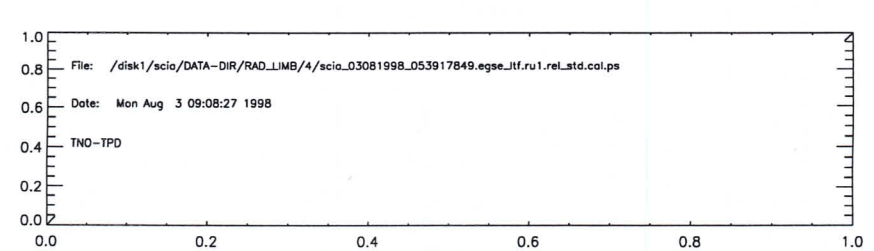
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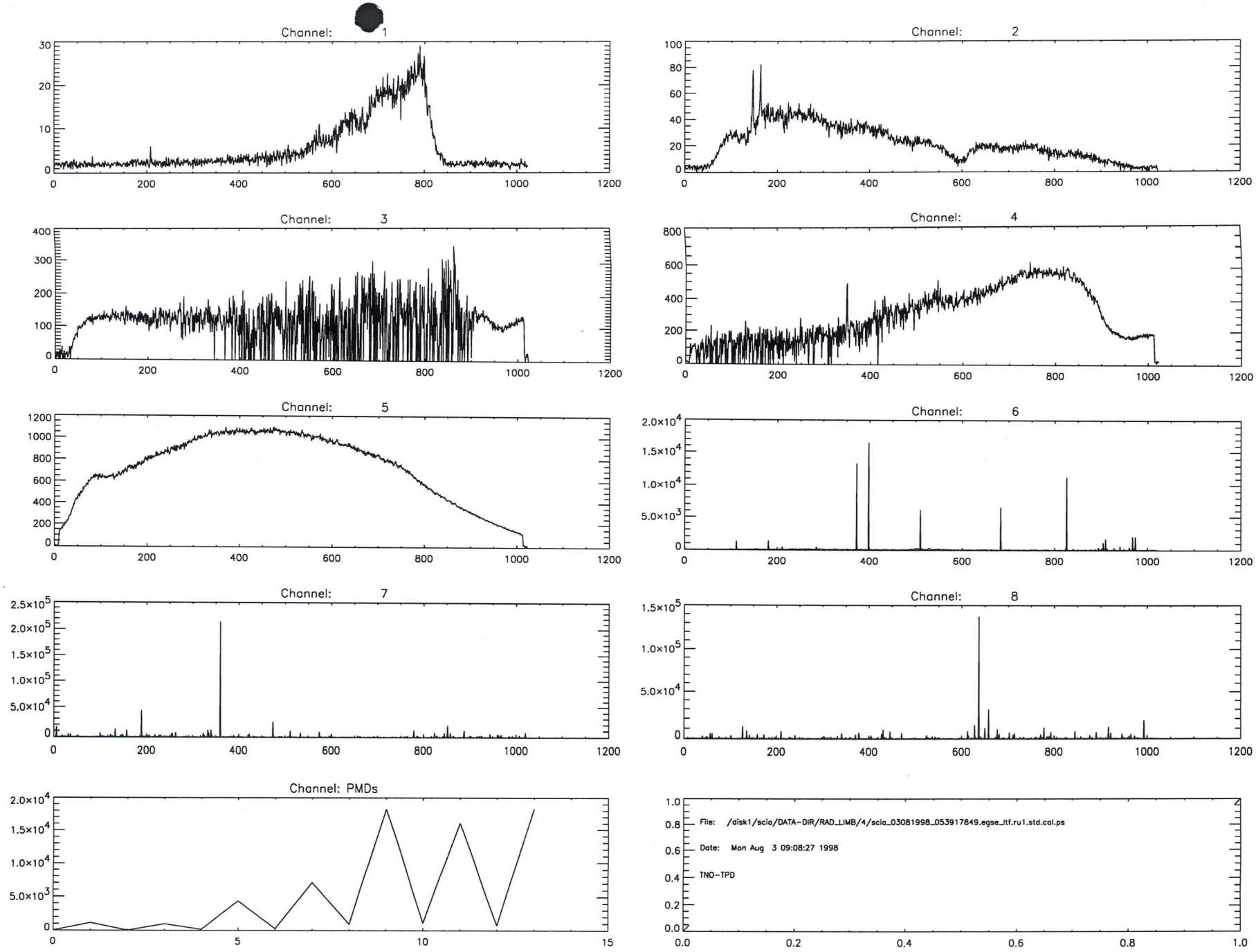
Date: Mon Aug 3 09:08:27 1998
TNO-TPD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Date: Mon Aug 3 09:08:27 1998
TNO-TPD

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Start TOD = Mon 03-Aug-98 05:53:41
End   TOD = Mon 03-Aug-98 06:05:31
Processing= computation of average, standard dev. and rel.standard dev.
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End   TOD  = Mon 03-Aug-98 05:53:41
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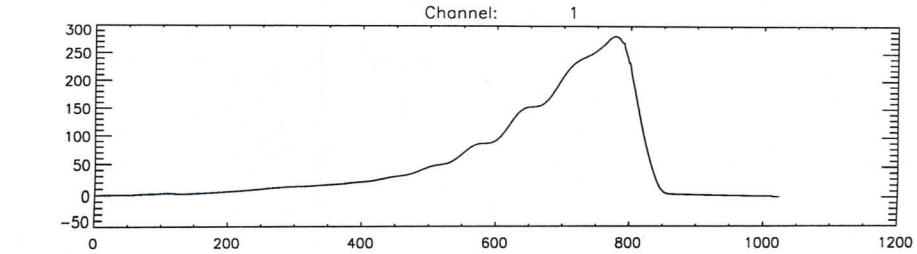
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1000
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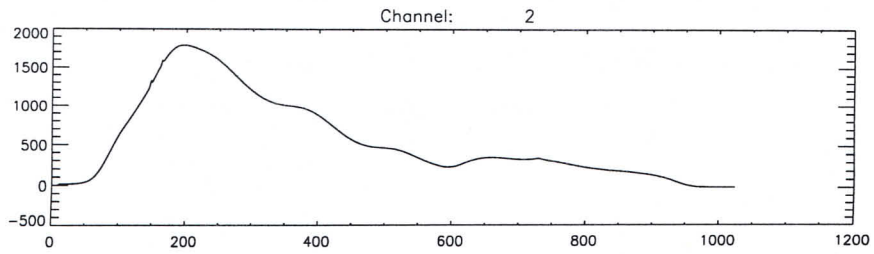
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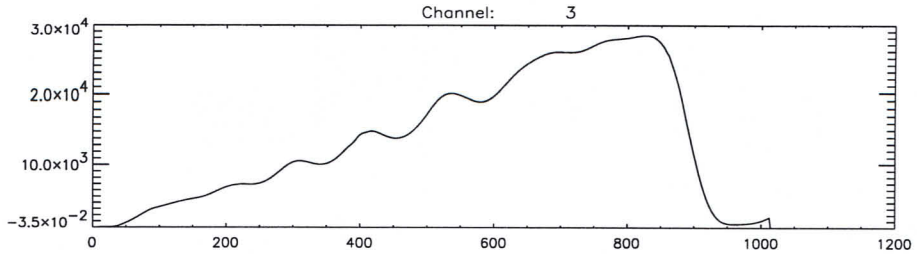
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10.0×10^3
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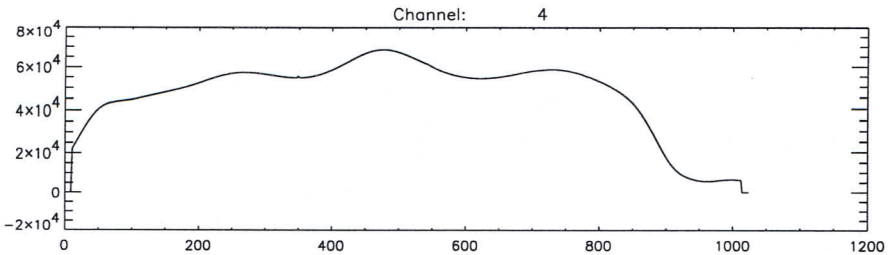
800
1000
1200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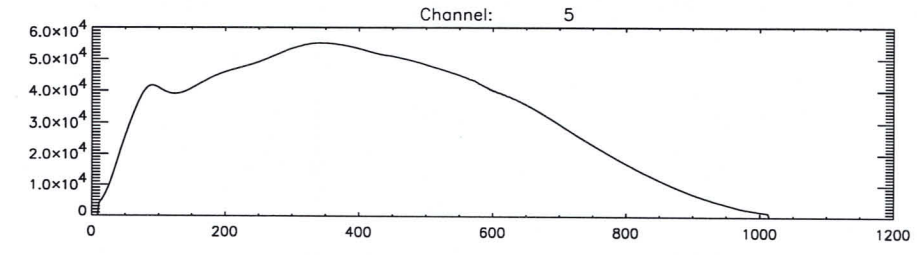
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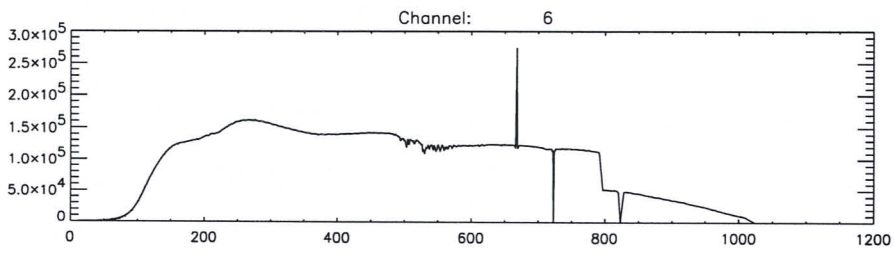
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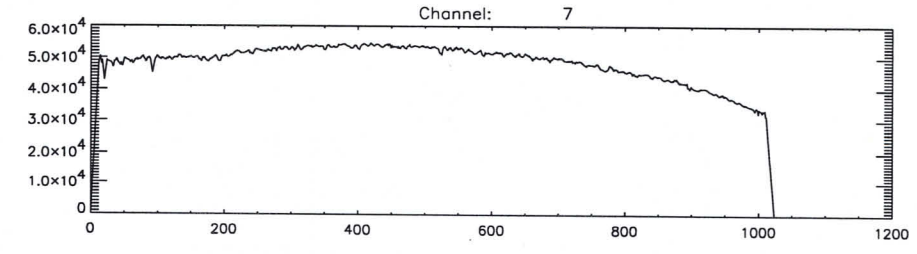
1000
1200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1.0×10^4
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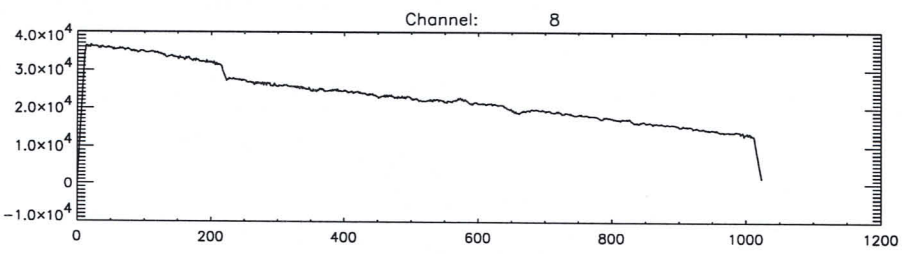
600
800
1000
1200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1.0×10^4
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−1.0×10^4
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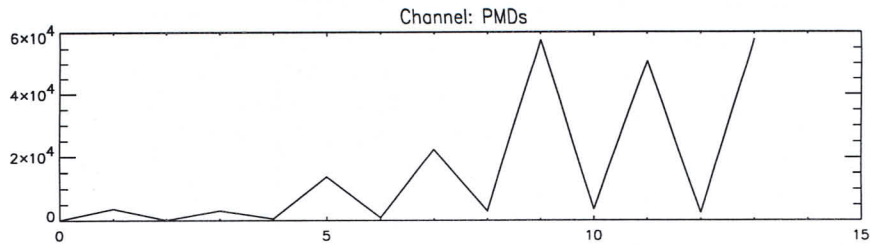
600
800
1000
1200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2×10^4
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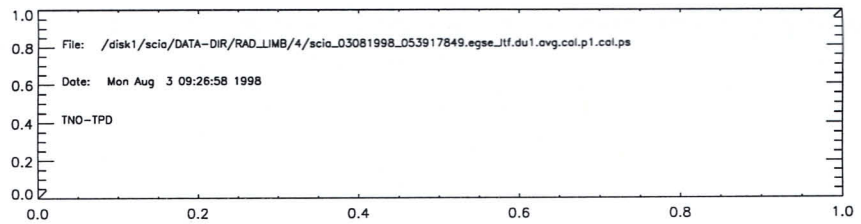
5
10
15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Date: Mon Aug 3 09:26:58 1998
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0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0

#####
#####
#####
#####
#####
User: scia6!scia
#####
Title: scia_03081998_053917849.egse_ltf.du1.avg.cal.p2.cal.ps
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scia6
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Printed: Mon 09:21 Aug 03, 1998
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Job number: hp6mp-460
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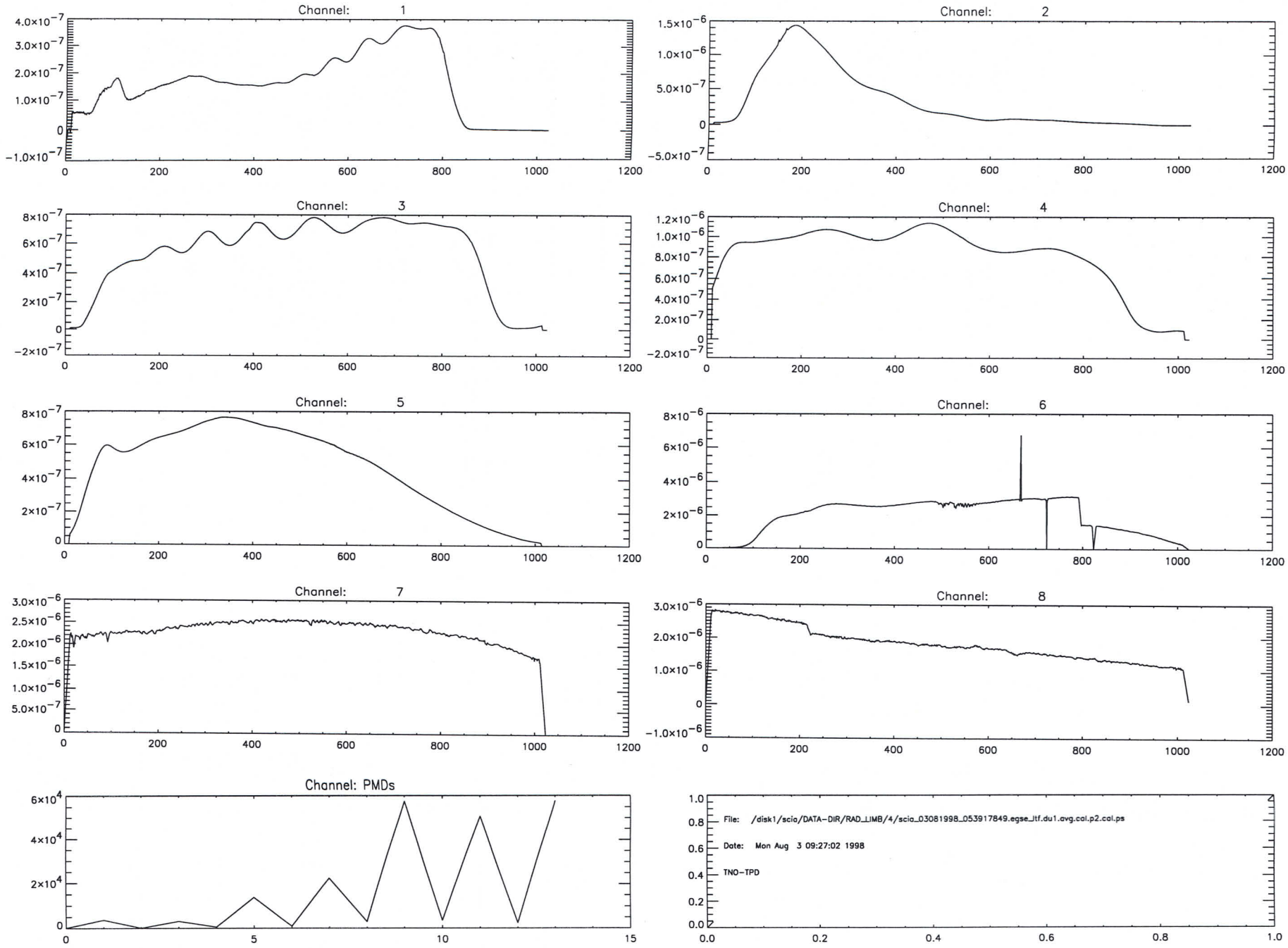
#####
#####


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_LIMB/4/scia_03081998_053917849.egse_ltf.du1.avg.cal.p2.cal.ps
Date: Mon Aug 3 09:27:02 1998
TNO-TPD

Version: 0.1
Input files:

/disk1/scia/DATA-DIR/RAD_LIMB/4/scia_03081998_053917849.egse_ltf.du1.avg.cal
 and

/disk1/scia/DATA-DIR/RAD_LIMB/4/scia_03081998_053917849.egse_ltf.ru1.avg.cal
Action:
Radiance calibration + divided by calibrated irradiance + divded by bsdf + div
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/310798/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/310798/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/310798/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/310798/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/310798/stray.da
Processing time: Mon Aug 3 09:27:02 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_LIMB/4/scia_03081998_053917849.egse_ltf.du1.avg.cal.p
Ambient files:
Ambient Correction file versions ac_ucp = # VERSION 0.0
ac_ucs = #VERSION 0.0
ala4lp = #VERSION 0.0
ala4ls = #VERSION 0.0
ɛ 4lx = #VERSION 0.0
alamlp = #VERSION 0.0
alamls = #VERSION 0.0
alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
alaulp = #VERSION 0.0
alauls = #VERSION 0.0
anapnp = #VERSION 0.0
anapnx = #VERSION 0.0
anaunp = #VERSION 0.0 ASAP data
anauns = #VERSION 0.0 ASAP data
bsdf = #Date: 15/06/98 NOTE: This is preliminary data! The final keydata must
optec_window = #VERSION 0.0
reflectance = #VERSION 0.0

#####
#####
#####
#####
#####
User: scia6!scia
#####
Title: scia_03081998_053917849.egse_ltf.du1.avg.cal.p1.cal.log
#####
scia6
#####
Printed: Mon 09:25 Aug 03, 1998
#####
Job number: hp6mp-462
#####
#####
#####
#####
#####

```
Version:  0.1
Input files:

/disk1/scia/DATA-DIR/RAD_LIMB/4/scia_03081998_053917849.egse_ltf.du1.avg.cal
 and

/disk1/scia/DATA-DIR/RAD_LIMB/4/scia_03081998_053917849.egse_ltf.ru1.avg.cal
Action:
Radiance calibration: No correction bsdf, transmission and e_cal
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/310798/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/310798/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/310798/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/310798/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/310798/stray.da
Processing time: Mon Aug  3 09:26:58 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_LIMB/4/scia_03081998_053917849.egse_ltf.du1.avg.cal.p
Ambient files:
Ambient Correction file versions ac_ucp = # VERSION 0.0
ac_ucs = #VERSION 0.0
ala4lp = #VERSION 0.0
ala4ls = #VERSION 0.0
a  4lx = #VERSION 0.0
alamlp = #VERSION 0.0
alamls = #VERSION 0.0
alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
alaulp = #VERSION 0.0
alauls = #VERSION 0.0
anapnp = #VERSION 0.0
anapnx = #VERSION 0.0
anaunp = #VERSION 0.0 ASAP data
anauns = #VERSION 0.0 ASAP data
bsdf = #Date: 15/06/98 NOTE: This is preliminary data! The final keydata must
optec_window = #VERSION 0.0
reflectance = #VERSION 0.0
```

```
#! /bin/sh
mv 215y0537.doc f0
mv 215y0606.xls f1
mv WS_FTP.LOG f2
mv dapbchklog f3
mv dapbseqlog f4
mv egse.inf f5
mv gemsmpara.dat f6
mv hk_ccb.dat f7
mv scia_03081998_053917849.dat f8
mv scia_03081998_053917849.egse_ltf f9
mv scia_03081998_053917849.egse_ltf.du1.avg.cal f10
mv scia_03081998_053917849.egse_ltf.du1.avg.cal.p1.cal f11
mv scia_03081998_053917849.egse_ltf.du1.avg.cal.p1.cal.log f12
mv scia_03081998_053917849.egse_ltf.du1.avg.cal.p1.cal.ps f13
mv scia_03081998_053917849.egse_ltf.du1.avg.cal.p1.cal.ps.log f14
mv scia_03081998_053917849.egse_ltf.du1.avg.cal.p2.cal f15
mv scia_03081998_053917849.egse_ltf.du1.avg.cal.p2.cal.keydata f16
mv scia_03081998_053917849.egse_ltf.du1.avg.cal.p2.cal.log f17
mv scia_03081998_053917849.egse_ltf.du1.avg.cal.p2.cal.ps f18
mv scia_03081998_053917849.egse_ltf.du1.avg.cal.p2.cal.ps.log f19
mv scia_03081998_053917849.egse_ltf.du1.avg.cal.ps f20
mv scia_03081998_053917849.egse_ltf.du1.log f21
mv scia_03081998_053917849.egse_ltf.du1.rel_std.cal f22
mv scia_03081998_053917849.egse_ltf.du1.rel_std.cal.ps f23
mv scia_03081998_053917849.egse_ltf.du1.std.cal f24
mv scia_03081998_053917849.egse_ltf.du1.std.cal.ps f25
mv scia_03081998_053917849.egse_ltf.ru1.avg.cal f26
mv scia_03081998_053917849.egse_ltf.ru1.avg.cal.ps f27
mv scia_03081998_053917849.egse_ltf.ru1.log f28
mv scia_03081998_053917849.egse_ltf.ru1.rel_std.cal f29
mv scia_03081998_053917849.egse_ltf.ru1.rel_std.cal.ps f30
mv scia_03081998_053917849.egse_ltf.ru1.std.cal f31
mv scia_03081998_053917849.egse_ltf.ru1.std.cal.ps f32
```

```
#! /bin/sh
mv f0 215y0537.doc
mv f1 215y0606.xls
mv f2 WS_FTP.LOG
mv f3 dapbchklog
mv f4 dapbseqlog
mv f5 egse.inf
mv f6 gemsmpara.dat
mv f7 hk_ccb.dat
mv f8 scia_03081998_053917849.dat
mv f9 scia_03081998_053917849.egse_ltf
mv f10 scia_03081998_053917849.egse_ltf.du1.avg.cal
mv f11 scia_03081998_053917849.egse_ltf.du1.avg.cal.p1.cal
mv f12 scia_03081998_053917849.egse_ltf.du1.avg.cal.p1.cal.log
mv f13 scia_03081998_053917849.egse_ltf.du1.avg.cal.p1.cal.ps
mv f14 scia_03081998_053917849.egse_ltf.du1.avg.cal.p1.cal.ps.log
mv f15 scia_03081998_053917849.egse_ltf.du1.avg.cal.p2.cal
mv f16 scia_03081998_053917849.egse_ltf.du1.avg.cal.p2.cal.keydata
mv f17 scia_03081998_053917849.egse_ltf.du1.avg.cal.p2.cal.log
mv f18 scia_03081998_053917849.egse_ltf.du1.avg.cal.p2.cal.ps
mv f19 scia_03081998_053917849.egse_ltf.du1.avg.cal.p2.cal.ps.log
mv f20 scia_03081998_053917849.egse_ltf.du1.avg.cal.ps
mv  f21 scia_03081998_053917849.egse_ltf.du1.log
mv f22 scia_03081998_053917849.egse_ltf.du1.rel_std.cal
mv f23 scia_03081998_053917849.egse_ltf.du1.rel_std.cal.ps
mv f24 scia_03081998_053917849.egse_ltf.du1.std.cal
mv f25 scia_03081998_053917849.egse_ltf.du1.std.cal.ps
mv f26 scia_03081998_053917849.egse_ltf.ru1.avg.cal
mv f27 scia_03081998_053917849.egse_ltf.ru1.avg.cal.ps
mv f28 scia_03081998_053917849.egse_ltf.ru1.log
mv f29 scia_03081998_053917849.egse_ltf.ru1.rel_std.cal
mv f30 scia_03081998_053917849.egse_ltf.ru1.rel_std.cal.ps
mv f31 scia_03081998_053917849.egse_ltf.ru1.std.cal
mv f32 scia_03081998_053917849.egse_ltf.ru1.std.cal.ps
```

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	D. OUDE LANSINK 3-8-'98	

Backup data	Let <D> be the directory you want to backup.
	`cd <D>`
	`mk_filetr`
	`ls -l | more`
	Are the files l_names and s_names present?
	If not, are you sure that the function `mk_filetr` executed?
	`./s_names`
	ls -l more
	All file names of the form `f<digit>`?
	`lpr -P<printer> s_names l_names`
	Add output to log book, done?
		(Y)/ N
		(Y)? N
		(Y)/ N	

	Via ftp on CD-writer PC: copy files in directory <D> (including s_names and s_names) to PC (On PC maintain directory structure of DATA-DIR).	files in directory on PC	
Backup CORR directory	Do always Let <D> be the directory `~/DATA-DIR/CORR`		
	Via ftp on CD-writer PC: copy files in directory <D> to PC (On PC maintain directory structure of DATA-DIR). So, you write the whole contents of the `DATA-DIR/CORR` directory.	files in directory on PC	
Backup:	Write 3CDs (Follow JGS' Gear instructions), Done?	(Y)/ N	
Back up On MOD:	Copy (via FTP) data from SUN named `scia6` to SUN named `tpdezo`.		

Copy to MOD (Follow instructions in file /home/drz/DOC/MOD*) Note, normally, you don't have to mount the MOD.

Copy contents of one CD (or via ftp) on the two other SUN workstations that are used for offline analysis, Done? Y (N) → = N

Sign:	Name	D.F. OUDE LANSINK
	Date and time	3-8-'98
	Signature	[signature]

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	D. Oude Lansink 3-8-'98	
	What's the name of the (main) data input files generated by the EGSE? (*.dat)	sciA_03081998_053917849	(A)
	Setup a three-window configuration on your SUN.		see course descr.
Cnstr directory	cd ~/DATA-DIR/RAD-LIMB ; ls -l highest number in directory?	3	Note: In window DATA-DIR (B)
	New directory: mkdir <B+1> ls -l What's now the highest number in directory? <C> should be <B> + 1	4 (Y) / N	(C)
	directory name is:	~/DATA-DIR/RAD-LIMB/<C>	(DIR-NAME)
Copy data	See Analysis sheet: Transfer Data File	(Y) / N	In DATA-DIR window
Cnstr EGSE_LTF	cal_raw2ltf . (Error messages are not necessarily fatal; check with SOLAN --in solan window-- whether output file is okay: there should be a signal present, and dremark1 labels should be filled) ls -l *.egse_ltf What's the name of the egse_ltf file <D> should be <A>.egse_ltf	sciA_03081998_053917849 (Y) / N	Note: In window DATA-DIR; ***don't forget the dot !!!;*** *May take more than 15 mins.* (D)
Cnstr CAL files	idl run_averscia (and select file <D> when asked)		Note: In window IDL
Check CAL files	Dark files: ls -l <DIR-NAME>/*du*.cal size:	1466	should be approx 150Kb
	ls -l <DIR-NAME>/*ru*.cal		

size: 146 — should be approx 150Kb

Note: all files should be present, if not:
(a) Check file <D> using SOLAN and check whether du, and ru labels are present in dremark1 labels
(b) Check if enough disk space is available (Unix command `df -k | more`).

Print postscript

Print postscript files:
`lpr -P<printer> *.ps`
Contents dark file `*du*.cal.ps` should be approx. constant within channels: (Y) / N
Contents light file `*ru*.cal.ps` should resemble white light source: (Y) / N

Contents of `*rel_std*.ps` files should be smaller than 0.01 (pixel 300 -- 800) for all channels. (Y) / N
If not, value is: _____

Add postscript images to logbook, done (Y) / N

Print logfiles `lpr -P<printer> *.log`
Add logfiles to logbook, done (Y) / N

Radiance processing

Run radiance `idl do_radiance` — In IDL window

Check radiance `ls -l * | more` — In DATA-DIR window

Size of file `<D>.du*.avg.cal.p1.cal` 146 kb — should be approx 150Kb

Size of file `<D>.du*.avg.cal.p2.cal` 146 kb

Check radiance visually	`lpr -P<printer> *.p[12] . *.cal.ps`	
	Value of P1 and P2 file resemble white light source?	(Y) / N
	Add postscript images to logbook, done	(Y) / N
Print logfiles	`lpr -P<printer> *.p[12] . cal.log`	
	Add logfiles to logbook, done	(Y) / N

Back up	Create 3 sets of backup CDs of directory <DIR-NAME> (One CD has a capacity of 600 Mbytes, the UNIX command `/usr/bin/du -k .` gives the number of kilo bytes in the current directory).		See analysis sheet BackUp
	Name of backup CDs	030898 D	

Sign:	Name	D.F. Oude Lansink
	Date and time	3-8-'98
	Signature	

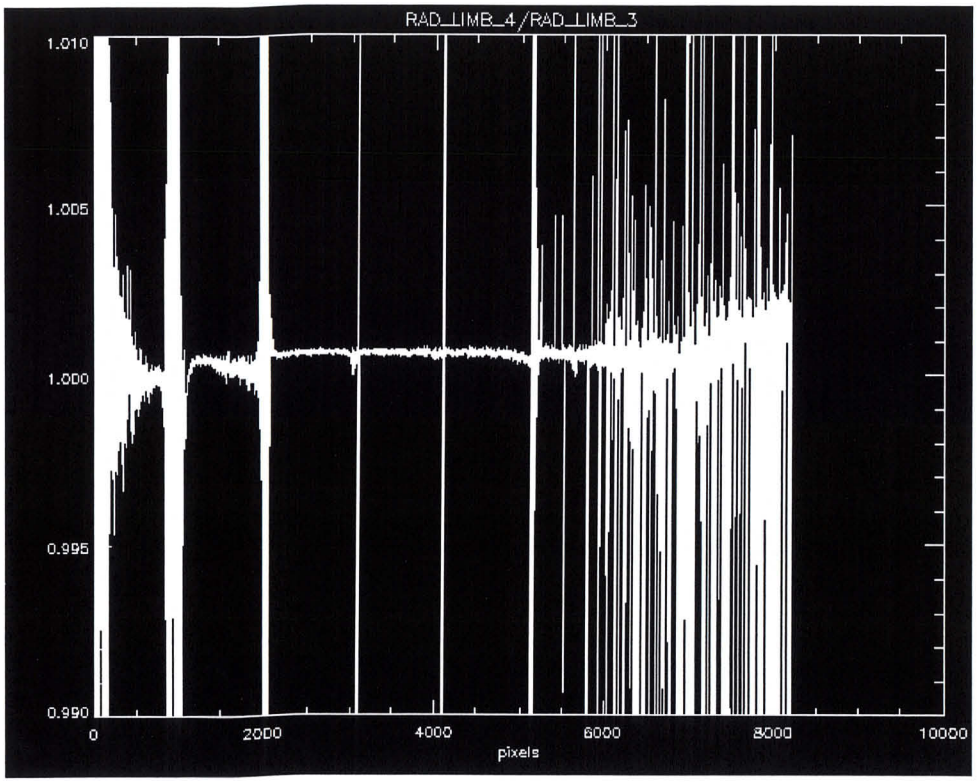
03-08-98 A. Bos Rat.o.

09:30 UTC

Step §4-4:

RADLIMB_3 = 1st time @ min. distance

RAD_limB-4 = 2nd time @ min. distance



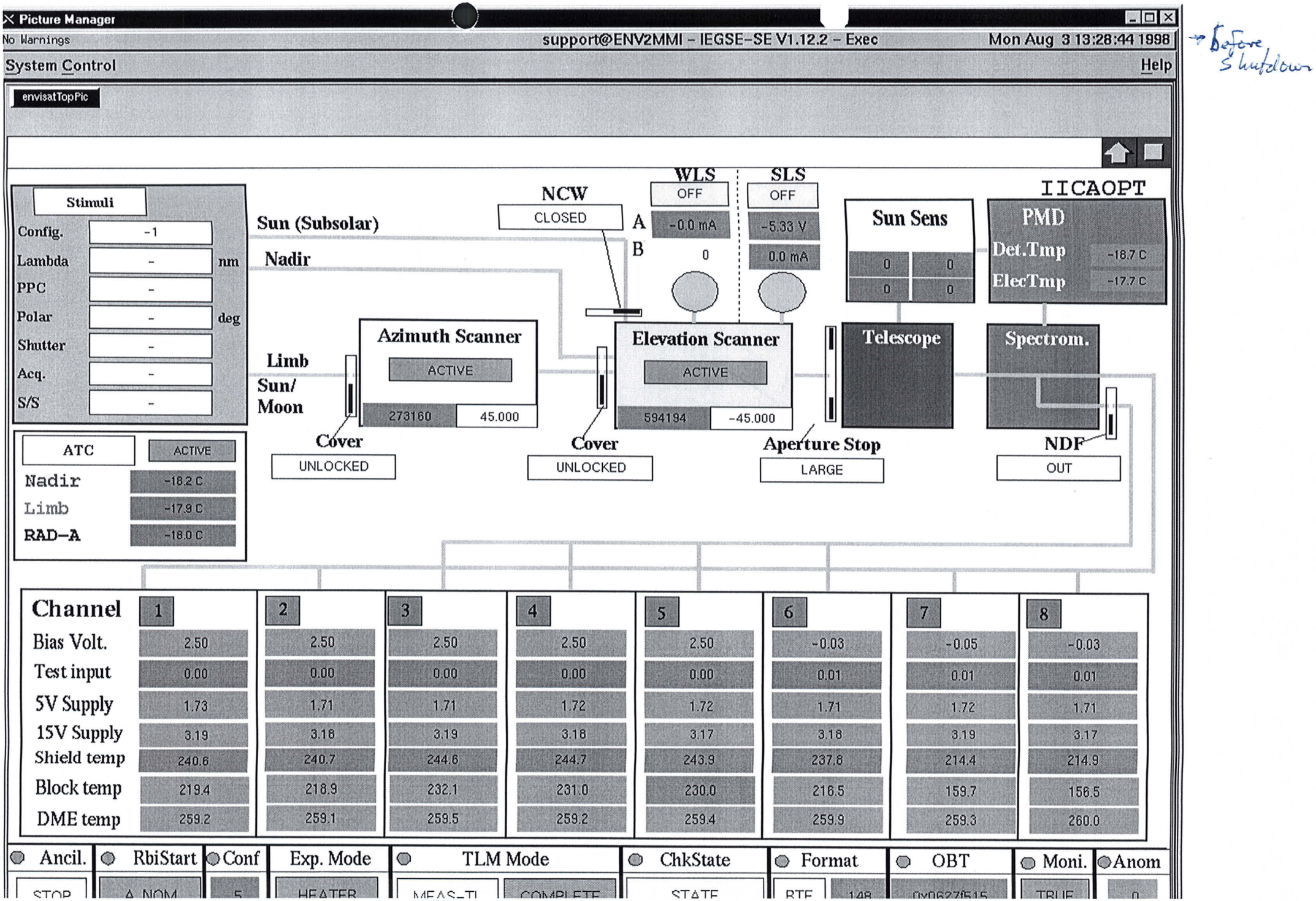
contents of. *.div.cal

in RAD_limB/4

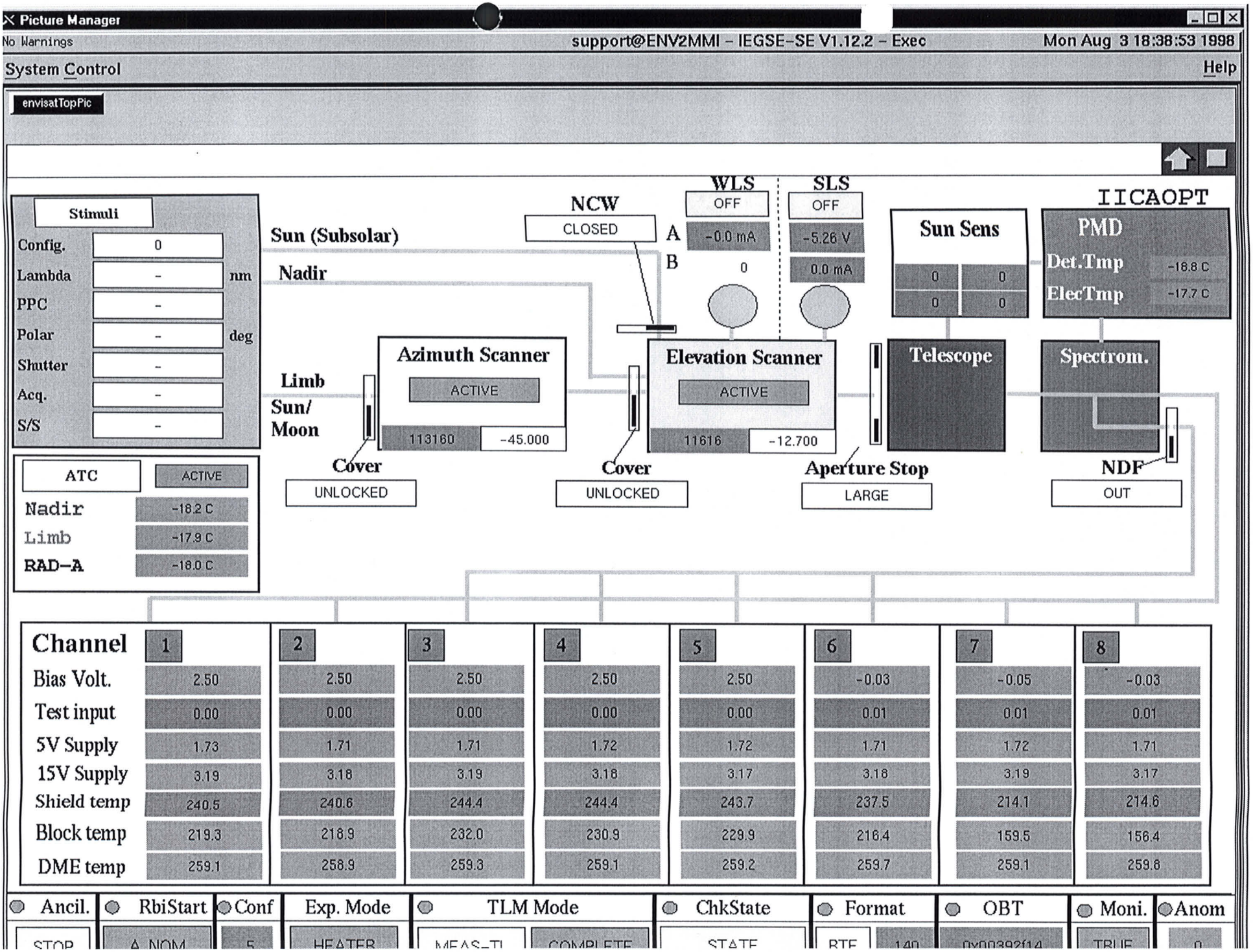
Pagenumber:

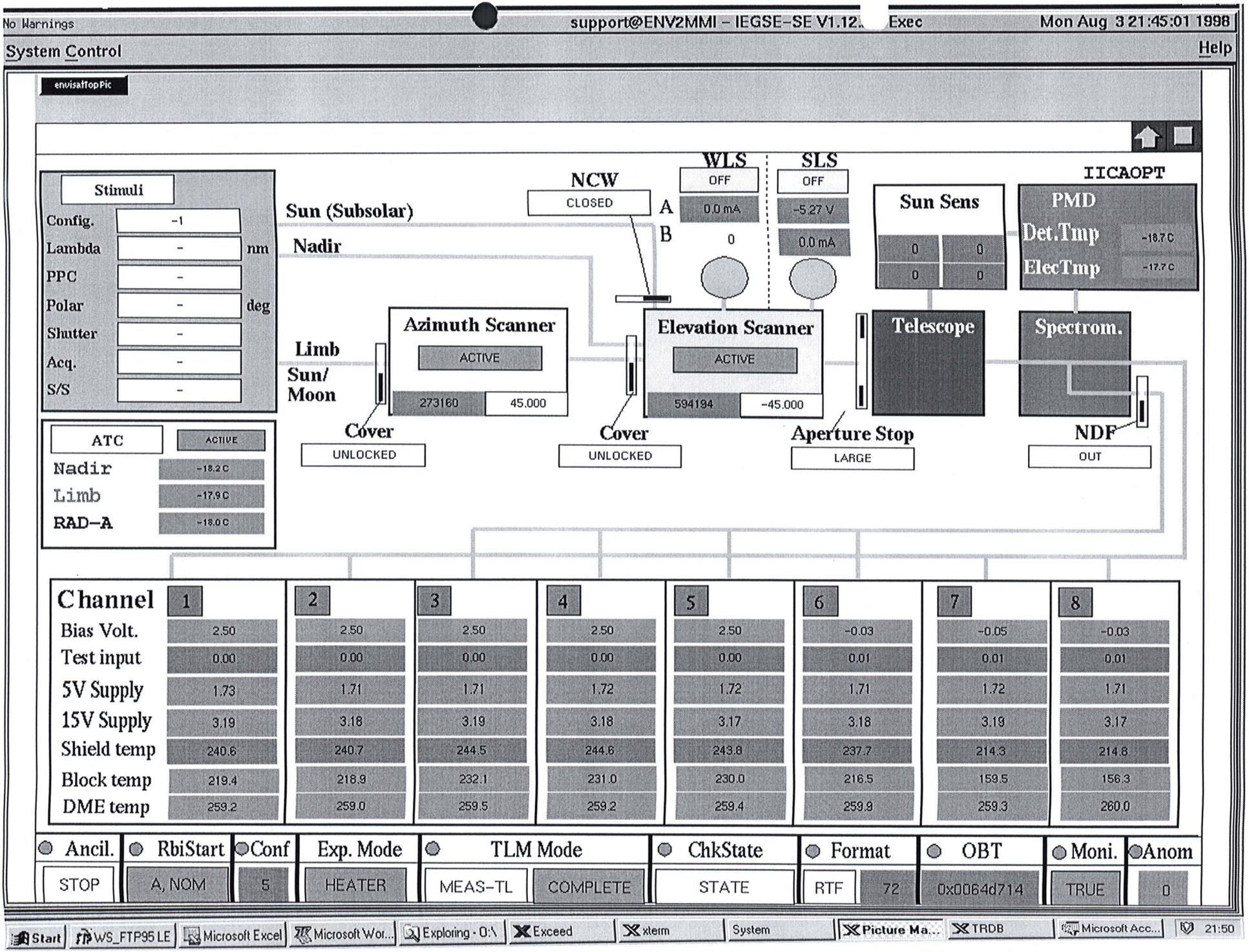
LOG SHEET SCIAMACHY CALIBRATION

date/time	description of action	measuremement filename
3/8/98 11:30(utc)	Data transport with EGSE went wrong. FEL-lamp burnt 1 hour and 15 minutes for ~~#15~~ nothing. We tried to perform two measurements (3d of step 4-4 and step 4-5) after each other.	
	ESSE malfunction:	
	Data was not stored on the DAPB	
	and not on Dornier's cd-writer PC.	
3/8/'98		
	Next try for both ~~[redacted]~~ Gen-Limb	
	and Gen-Limb-NDF measurement	
11.54 utc	Start Gen-Limb measurement	
12.20	End Gen-Limb	
12.35	Start Gen-Limb-NDF	
12.50	End Gen-Limb-NDF	
	Tijdens meting lampenrijen aan/uit.	



Before Shutdown


Picture Manager
No Warnings
support@ENV2MMI - IEGSE-SE V1.12.2 - Exec
Mon Aug 3 18:38:53 1998
System Control
Help
envisatTopPic
Stimuli
Config. 0
Lambda - nm
PPC -
Polar - deg
Shutter -
Acq. -
S/S -
ATC ACTIVE
Nadir -18.2 C
Limb -17.9 C
RAD-A -18.0 C
Sun (Subsolar)
Nadir
Limb
Sun/
Moon
NCW
CLOSED
WLS
OFF
A
-0.0 mA
B
0
SLS
OFF
-5.26 V
0.0 mA
Azimuth Scanner
ACTIVE
113160
-45.000
Elevation Scanner
ACTIVE
11616
-12.700
Sun Sens
0 0
0 0
IICAOPT
PMD
Det.Tmp -18.8 C
ElecTmp -17.7 C
Telescope
Spectrom.
Cover
UNLOCKED
Cover
UNLOCKED
Aperture Stop
LARGE
NDF
OUT
Channel 1 2 3 4 5 6 7 8
Bias Volt. 2.50 2.50 2.50 2.50 2.50 -0.03 -0.05 -0.03
Test input 0.00 0.00 0.00 0.00 0.00 0.01 0.01 0.01
5V Supply 1.73 1.71 1.71 1.72 1.72 1.71 1.72 1.71
15V Supply 3.19 3.18 3.19 3.18 3.17 3.18 3.19 3.17
Shield temp 240.5 240.6 244.4 244.4 243.7 237.5 214.1 214.6
Block temp 219.3 218.9 232.0 230.9 229.9 216.4 159.5 156.4
DME temp 259.1 258.9 259.3 259.1 259.2 259.7 259.1 259.6
Ancil. RbiStart Conf Exp. Mode TLM Mode ChkState Format OBT Moni. Anom
STOP A_NOM 5 HEATER MEAS_TI COMPLETE STATE RTE 140 0x00392f14 TRUE 0


No Warnings
support@ENV2MMI – IEGSE-SE V1.12. Exec
Mon Aug 3 21:45:01 1998
System Control
Help
envisatTopPic
Stimuli
Config. -1
Lambda - nm
PPC -
Polar - deg
Shutter -
Acq. -
S/S -
ATC ACTIVE
Nadir -18.2 C
Limb -17.9 C
RAD-A -18.0 C
Sun (Subsolar)
Nadir
Limb
Sun/ Moon
NCW
CLOSED
A
B
WLS
OFF
0.0 mA
0
SLS
OFF
-5.27 V
0.0 mA
Sun Sens
0 0
0 0
IICAOPT
PMD
Det.Tmp -18.7 C
ElecTmp -17.7 C
Azimuth Scanner
ACTIVE
273160 45.000
Elevation Scanner
ACTIVE
594194 -45.000
Telescope
Spectrom.
Cover
UNLOCKED
Cover
UNLOCKED
Aperture Stop
LARGE
NDF
OUT
Channel 1 2 3 4 5 6 7 8
Bias Volt. 2.50 2.50 2.50 2.50 2.50 -0.03 -0.05 -0.03
Test input 0.00 0.00 0.00 0.00 0.00 0.01 0.01 0.01
5V Supply 1.73 1.71 1.71 1.72 1.72 1.71 1.72 1.71
15V Supply 3.19 3.18 3.19 3.18 3.17 3.18 3.19 3.17
Shield temp 240.6 240.7 244.5 244.6 243.8 237.7 214.3 214.8
Block temp 219.4 218.9 232.1 231.0 230.0 216.5 159.5 156.3
DME temp 259.2 259.0 259.5 259.2 259.4 259.9 259.3 260.0
Ancil. STOP
RbiStart A, NOM
Conf 5
Exp. Mode HEATER
TLM Mode MEAS-TL COMPLETE
ChkState STATE
Format RTF 72
OBT 0x0064d714
Moni. TRUE
Anom 0
Start
WS_FTP95 LE
Microsoft Excel
Microsoft Wor...
Exploring - O:\
Exceed
xterm
System
Picture Ma...
TRDB
Microsoft Acc...
21:50

Formal Run of Measurement (Measurement ID) SLS_INT

Request for Actual Status		(cross out entries that are **not** requested.)
Request for Modification		(fill in only entries to be modified)
Request for Run	X	(no entries = run based on actual default settings)

Scanner Positions

Azimuth		deg
Elevation		deg

'as is' for Test

Timeline for each Data Acquisition Period during Measurement

	1	2	3	4	5	6	7	8	9	10
State ID										
Repetitions										

State Parameters for States used in Timeline (State ID must be given)

Channel	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding
1a								
1b								
2b								
2a								
3								
4								
5								
6								
7								
8								
State ID								

"as is" for Test

We (cal-team) do not process this analysis.

Stimuli Settings for Existing Blocks in Measurement

Block No	Stimuli Setup ID	PPC [deg]	Polarizer [deg]	Shutter open/close	Acquisition Time [s]	Lambda [nm] Start	Lambda [nm] Stop	Lambda [nm] Step	Repetition Factor	Message	OS Setup Time [s]

"as is" for Test

Measurement Data Description

Test Purpose	Verification of DAPB
Remark	Check after problems
Data Directory	0215_11.14.36_SLS_INT

Signatures

	Date	Signature
Issued	3.8.96	
< Performed		

Request for Actual Status		(cross out entries that are not requested)
Request for Modification		(fill in only entries to be modified)
Request for Run	X	(no entries = run based on actual default settings)

Scanner Positions

Azimuth	-45.00	deg
Elevation	-12,70	deg

Timeline for each Data Acquisition Period during Measurement

	1	2	3	4	5	6	7	8	9	10
State ID	37									
Repetitions	10									

State Parameters for States used in Timeline (State ID must be given)

Channel	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding
1a	64	1						
1b	64	1						
2b	0	0						
2a	0	0						
3	1	64						
4	0,5	64						
5	0,5	64						
6	0,125	64						
7	0,5	64						
8	1	64						
State ID								

Stimuli Settings for Existing Blocks in Measurement

Block No	Stimuli Setup ID	PPC [deg]	Polarizer [deg]	Shutter open/close	Acquisition Time [s]	Lambda [nm] Start	Stop	Step	Repetition Factor	Message	OS Setup Time [s]
1	0	-	-	-	-	-	-	0	1	RUN	
2	0	-	-	-	-	-	-	0	1	DU1	

Measurement Data Description

Test Purpose	UTD 23
Remark	
Data Directory	0215_11.38.56_GENLIMB

Signatures

	Date	Signature
Issued	3-8-98	
< Performed	3.8.98	

Formal Run 0215_08.58.13_GEN_LIMB => Failed no DAT-File

Picture Manager

No Warnings | support@ENV2MMI - IEGSE-SE V1.12.2 - Exec | Mon Aug 3 12:17:23 1998

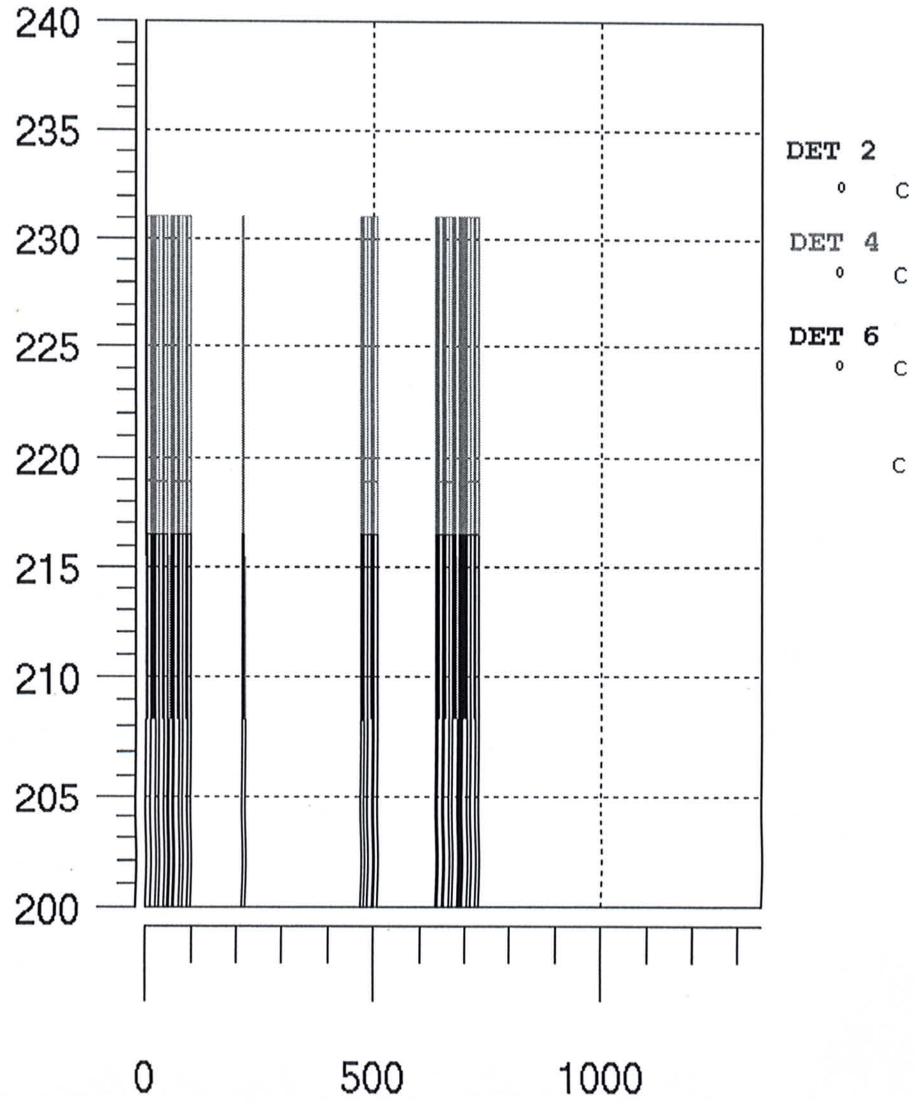
System Control | Help

envisatTopPic

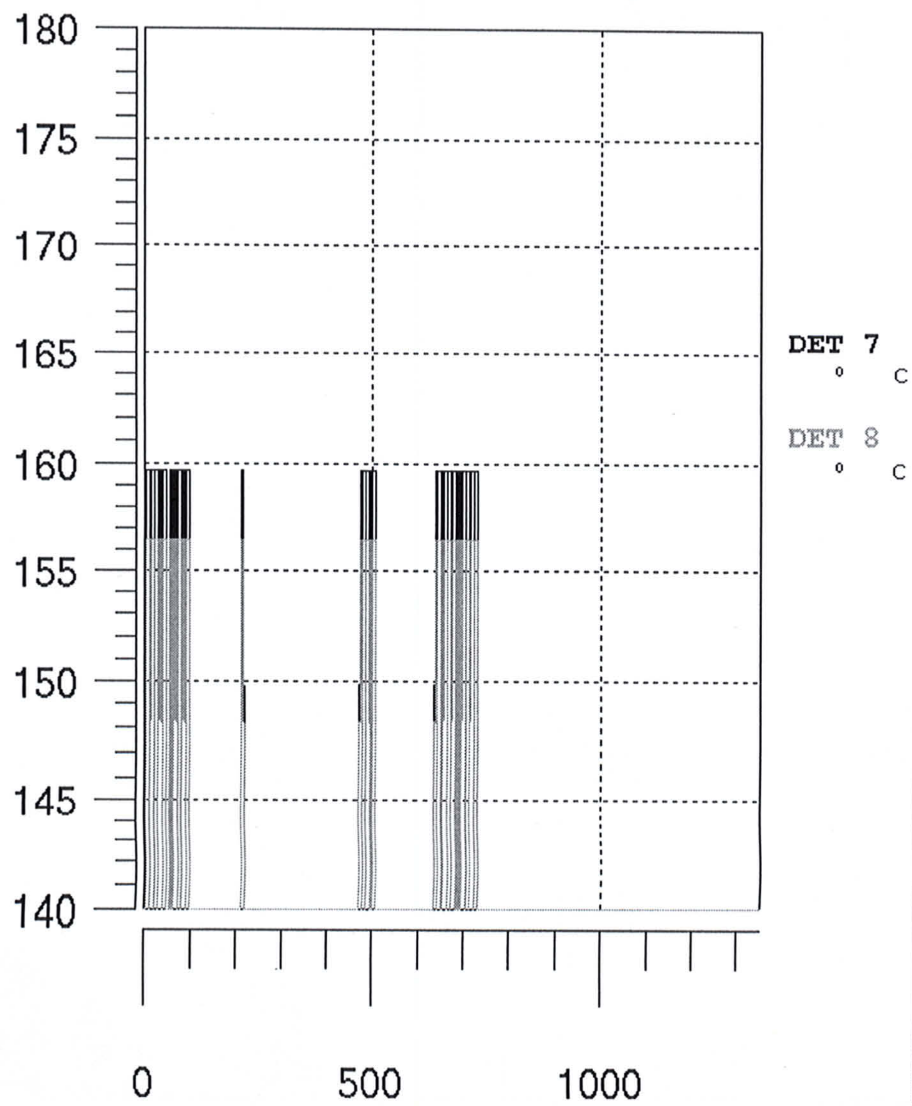
picture title

IIGDETTMP

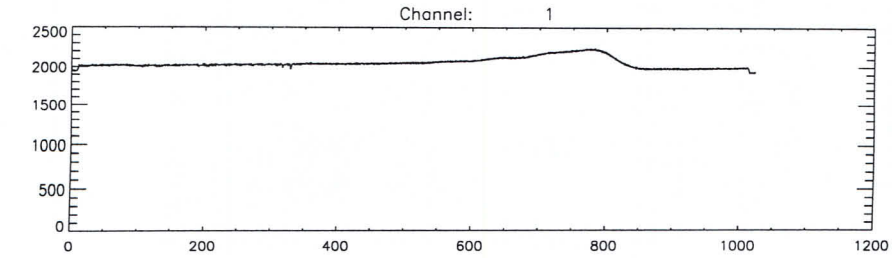
Detector 2,4,6 Temp



Detector 7-8 Temp



Shift Anolie Boo C.S.
UID 23 (3rd set-up)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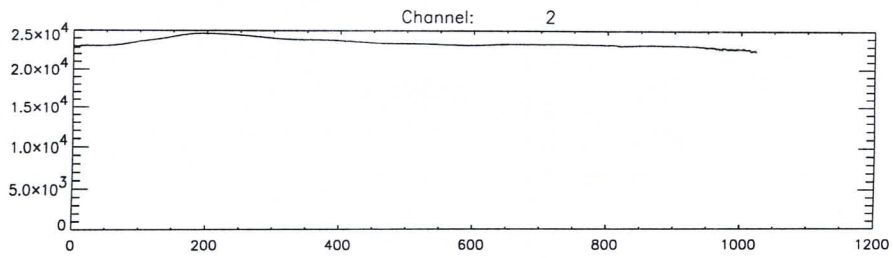
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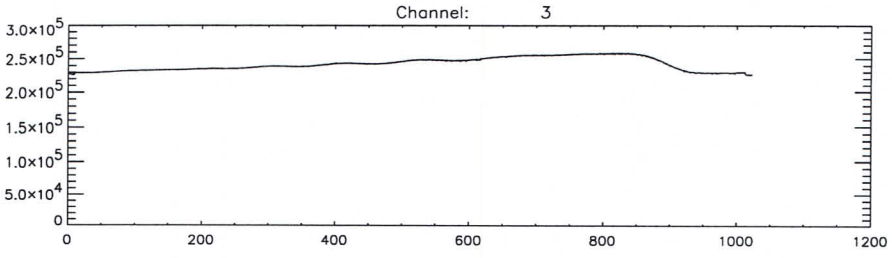
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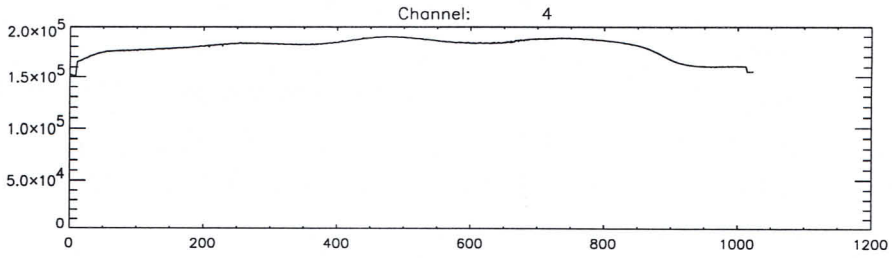
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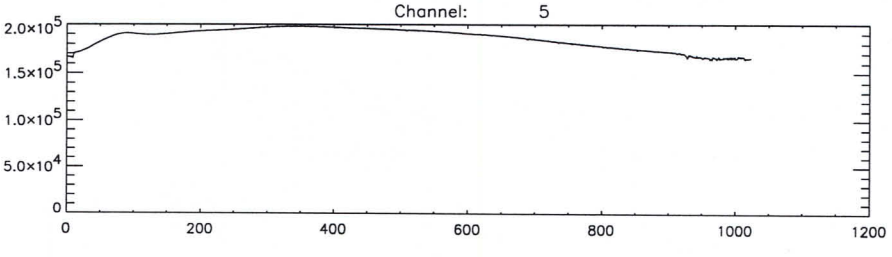
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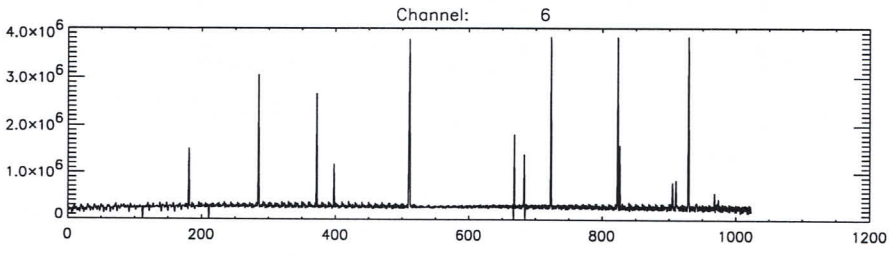
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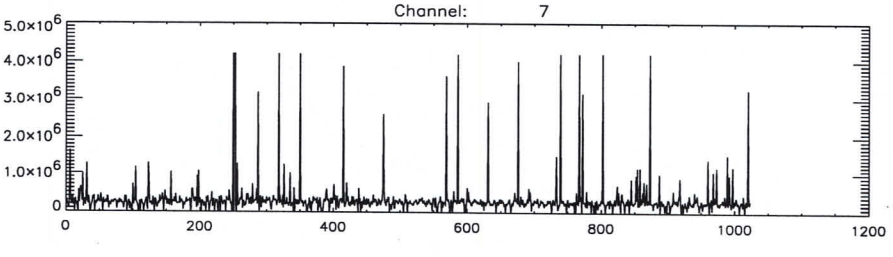
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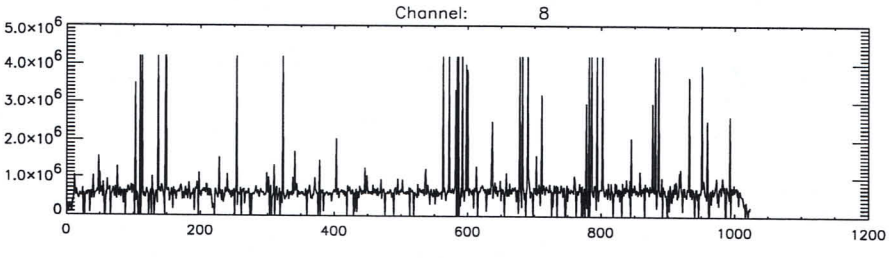
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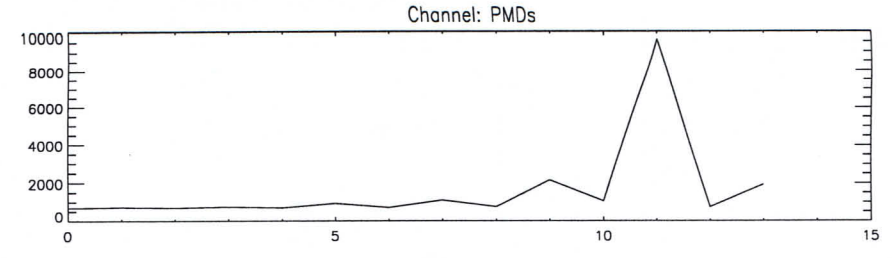
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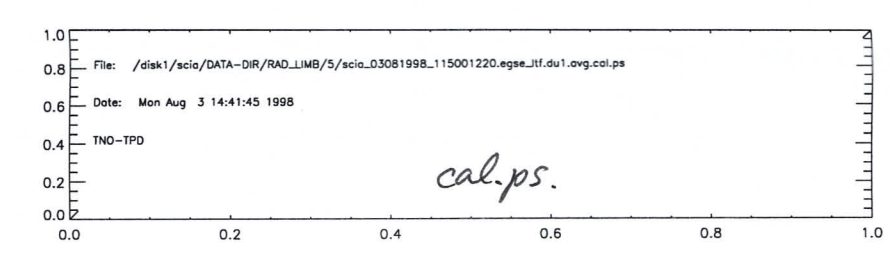
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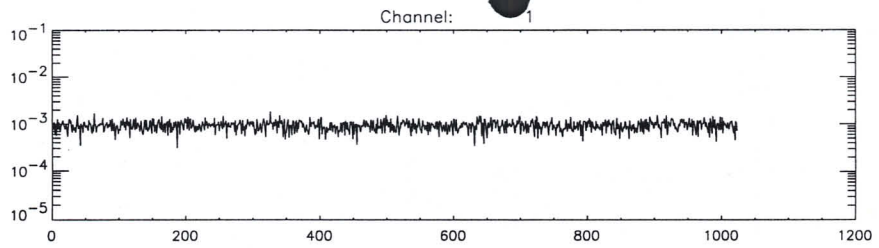
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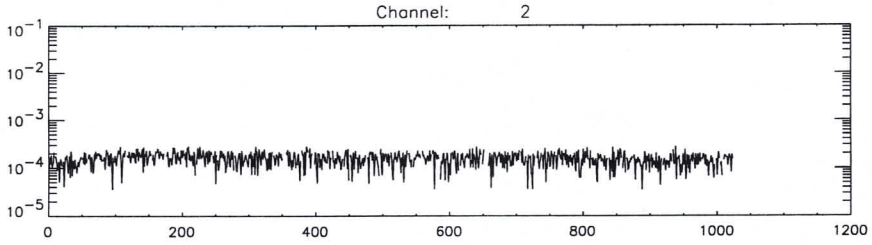
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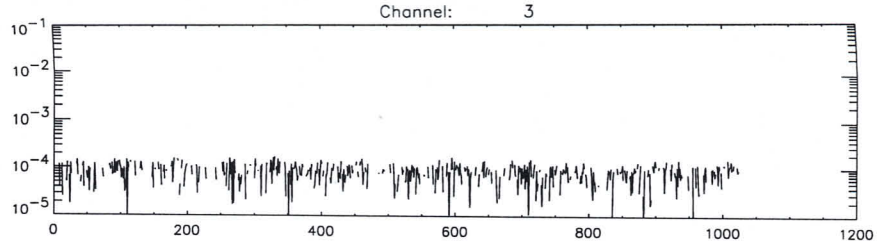
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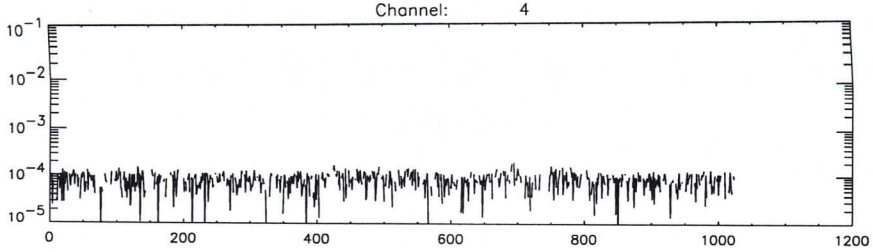
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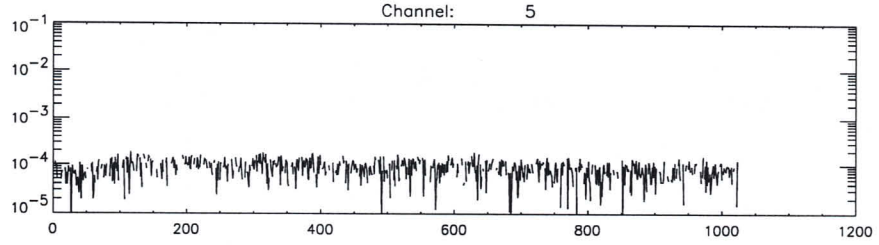
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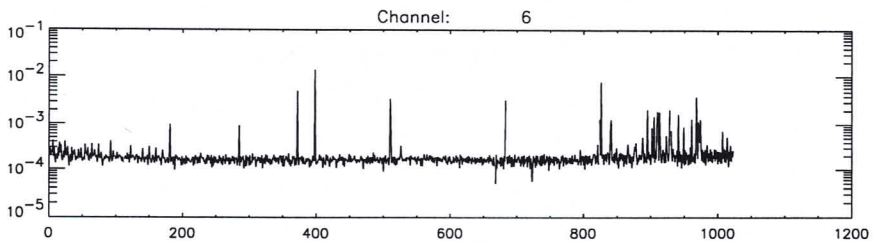
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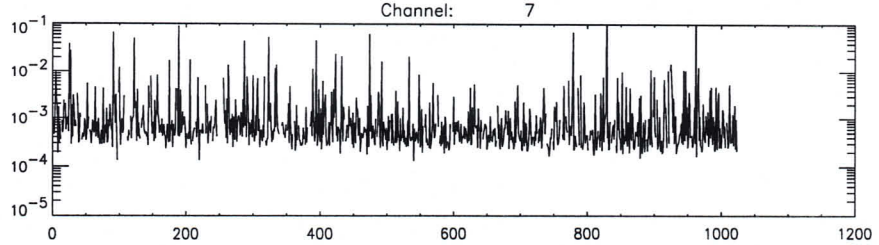
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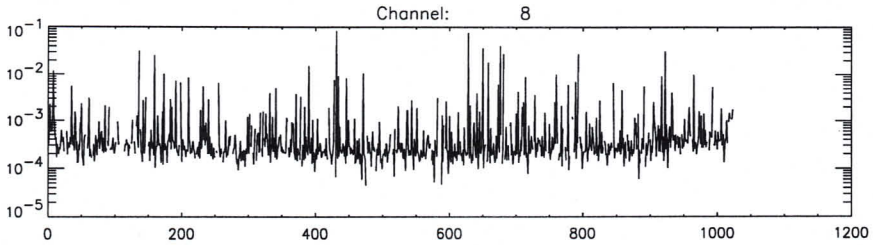
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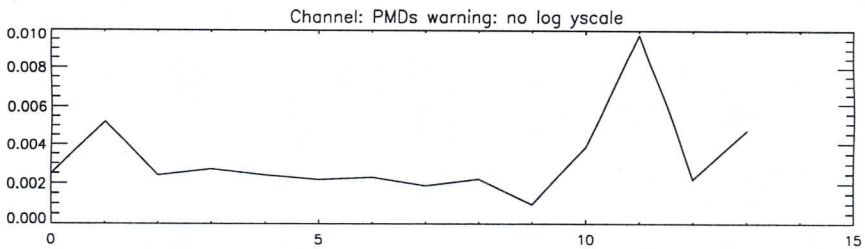
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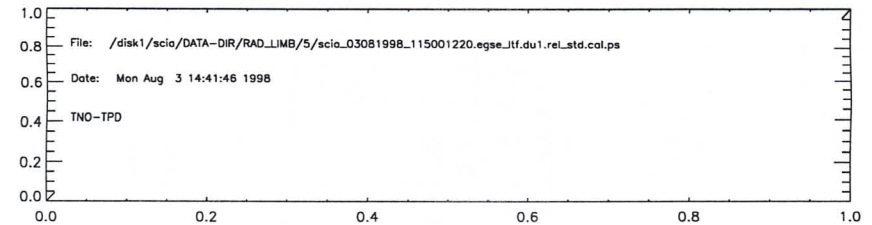
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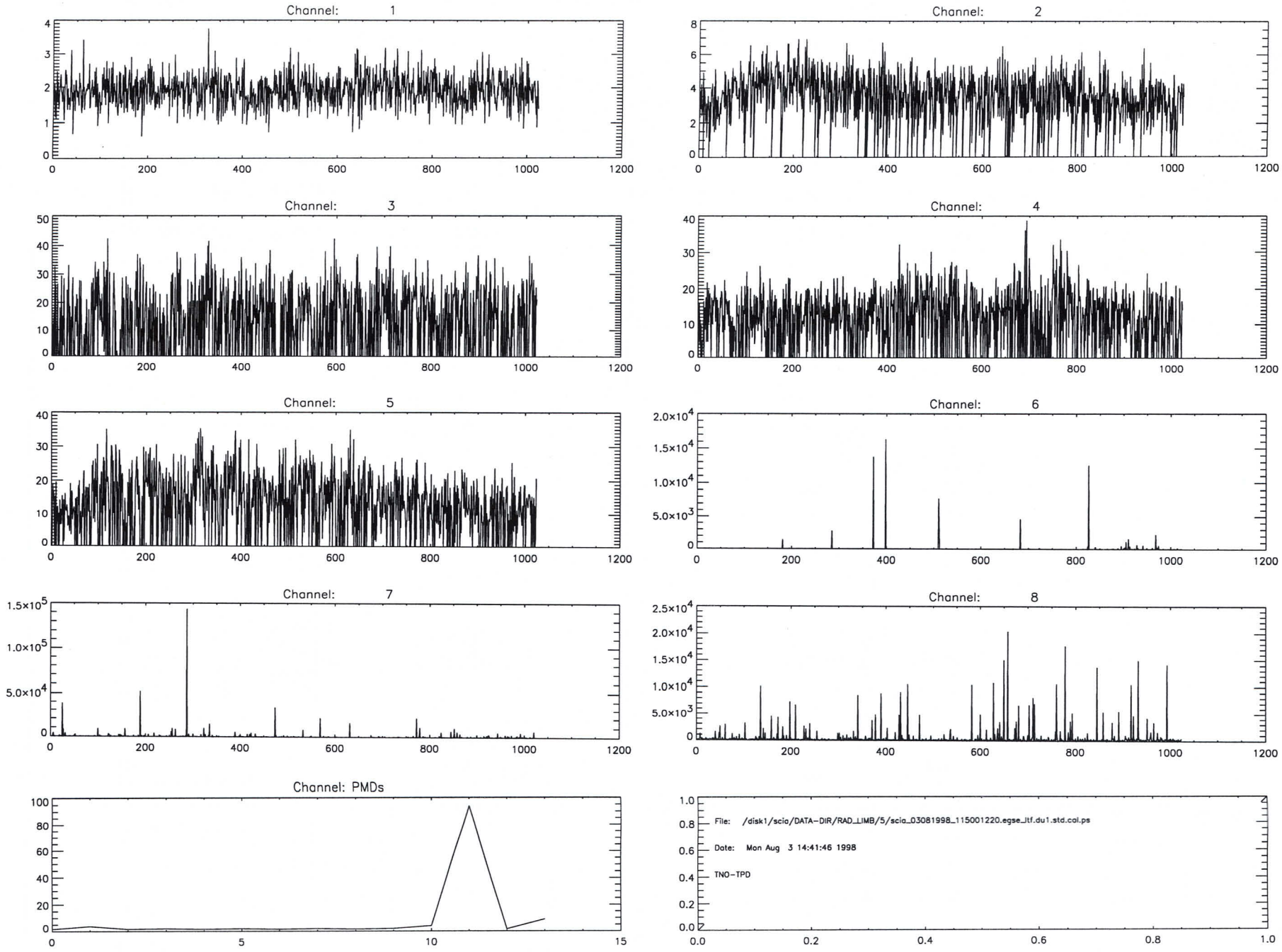
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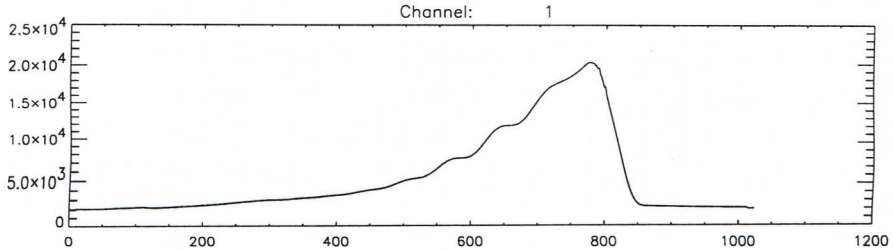
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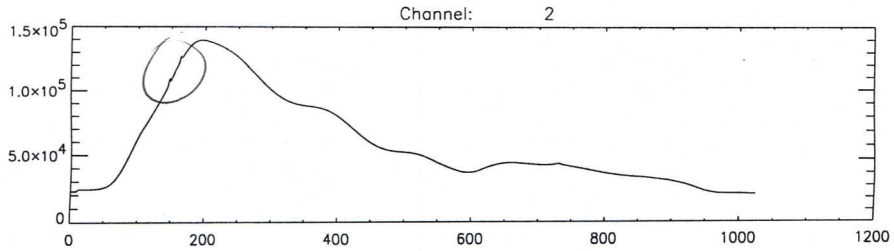
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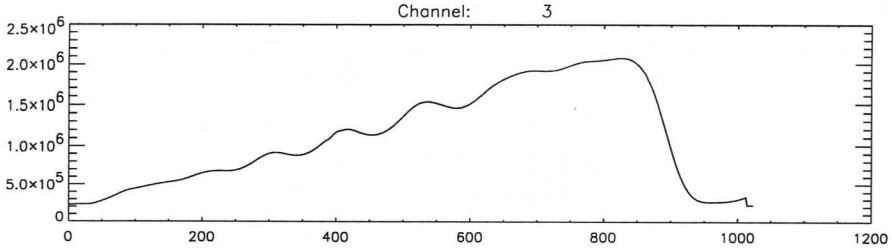
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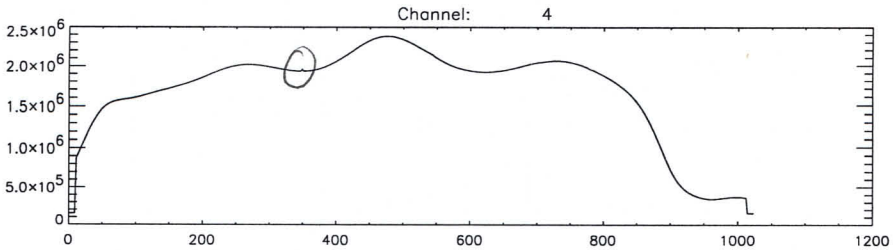
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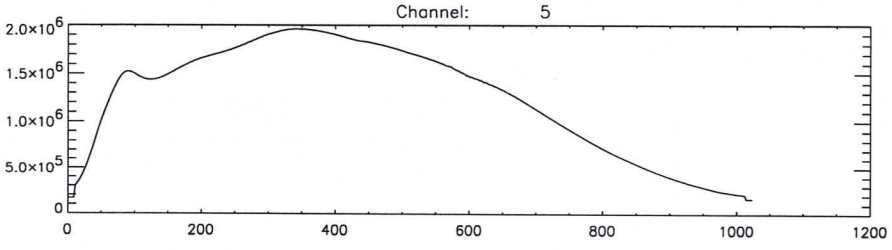
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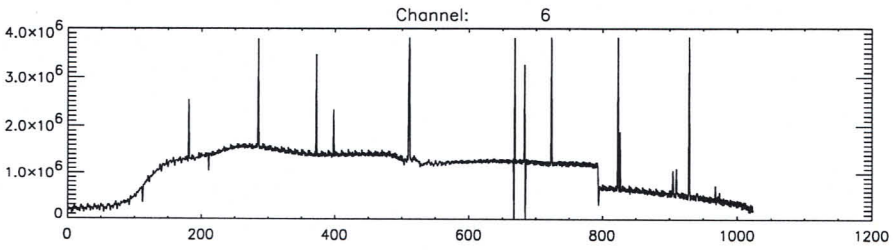
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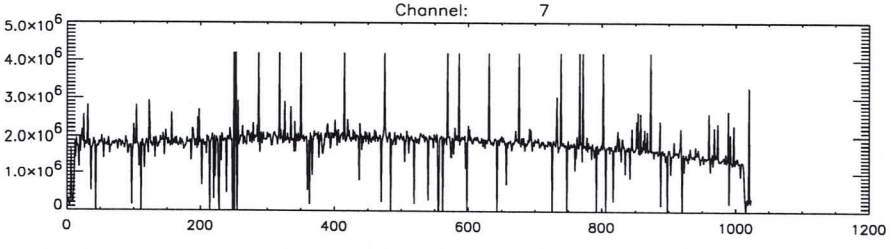
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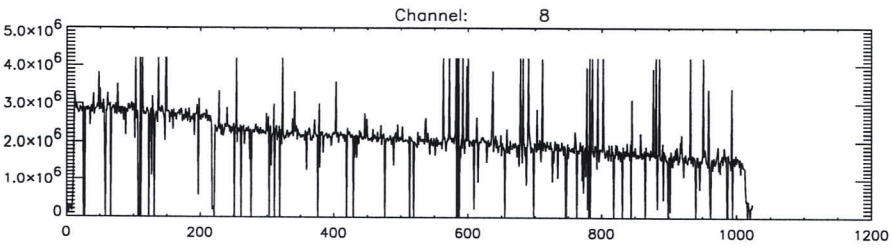
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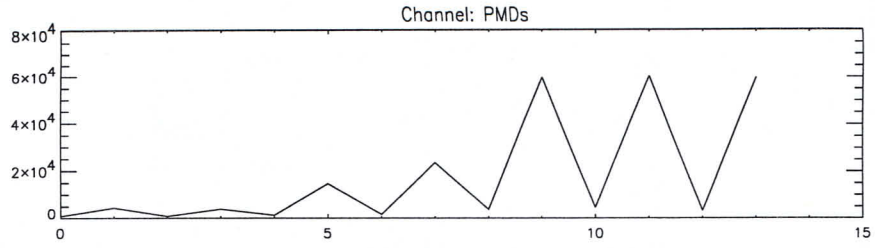
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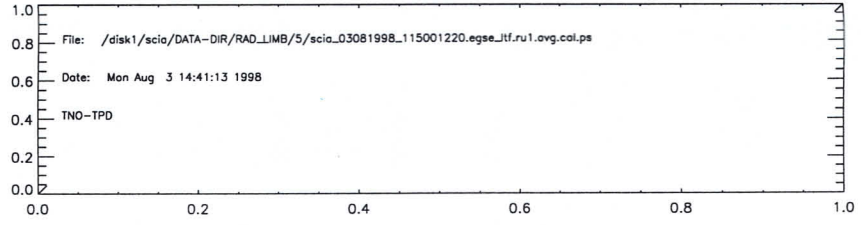
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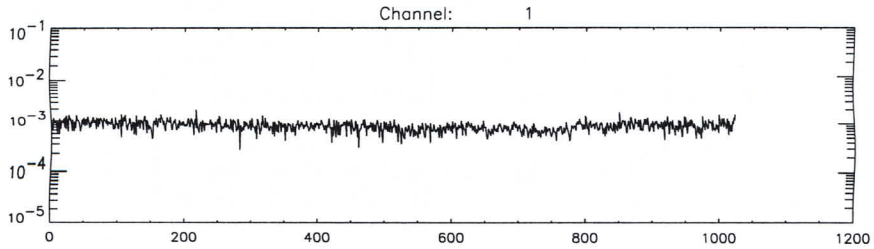
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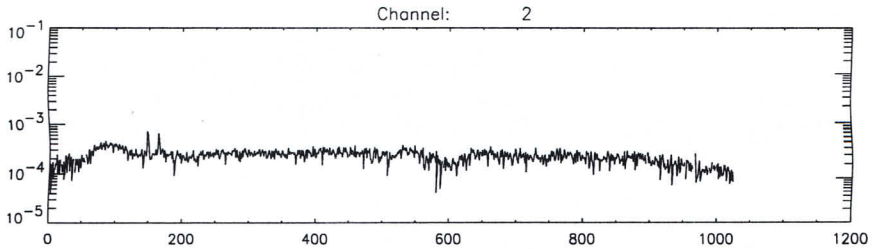
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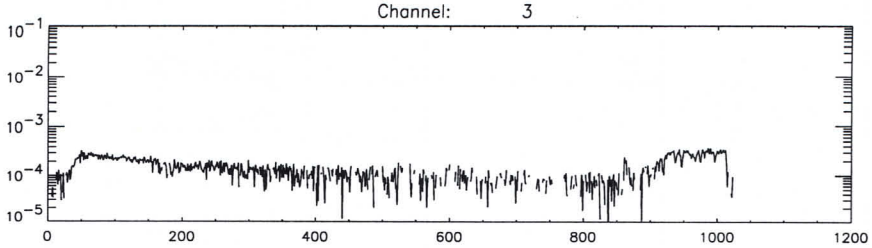
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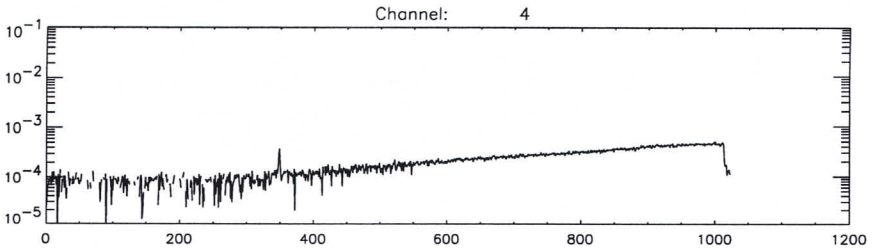
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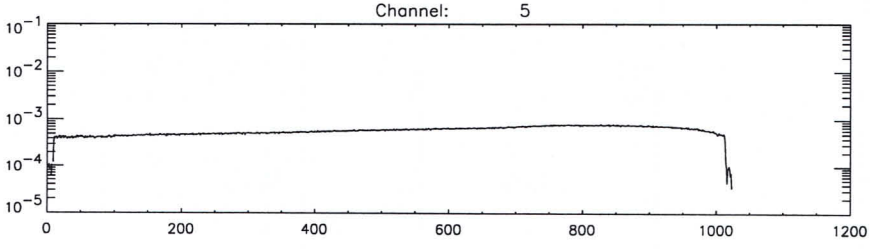
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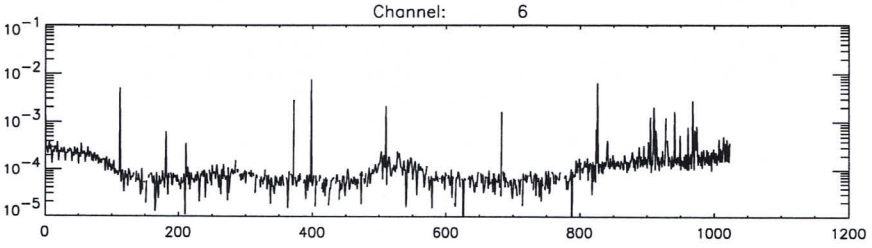
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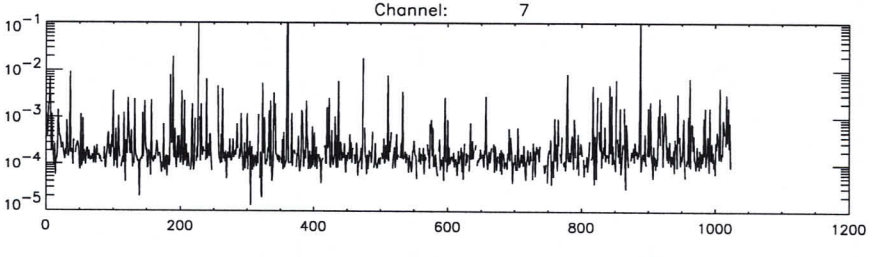
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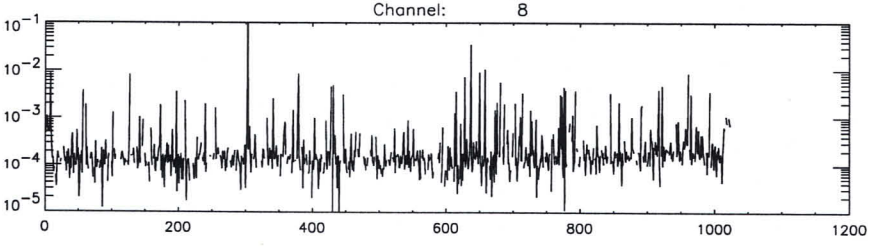
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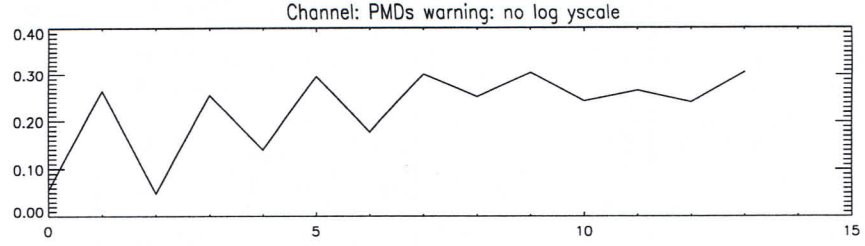
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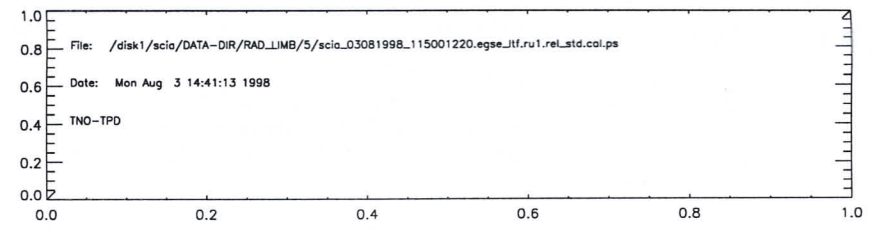
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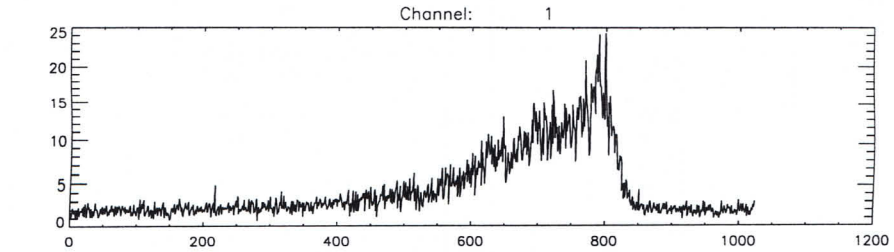
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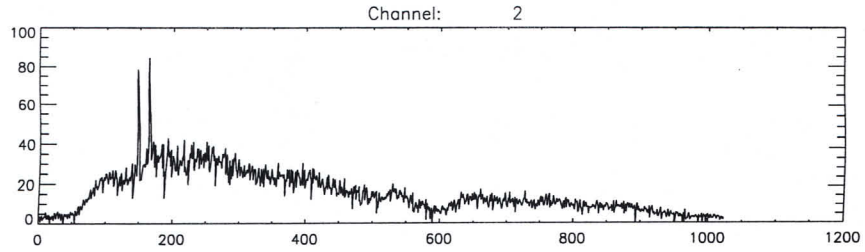
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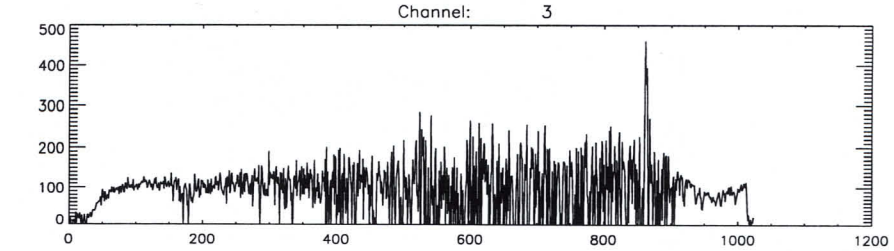
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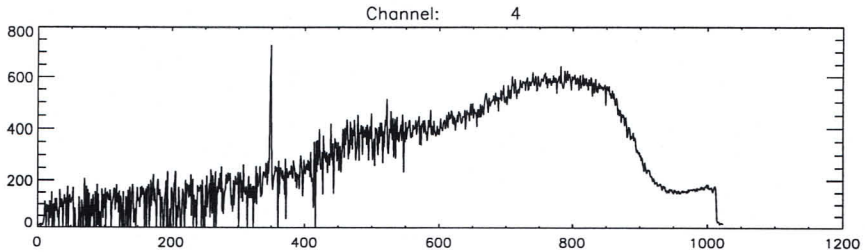
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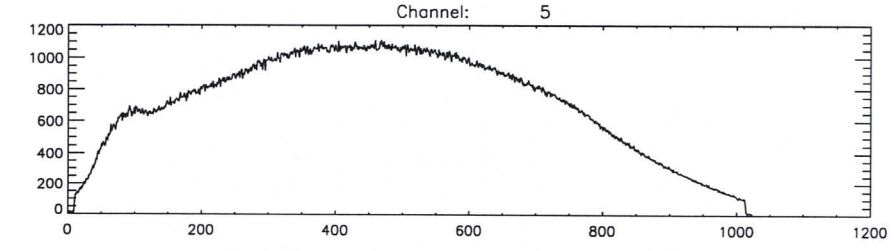
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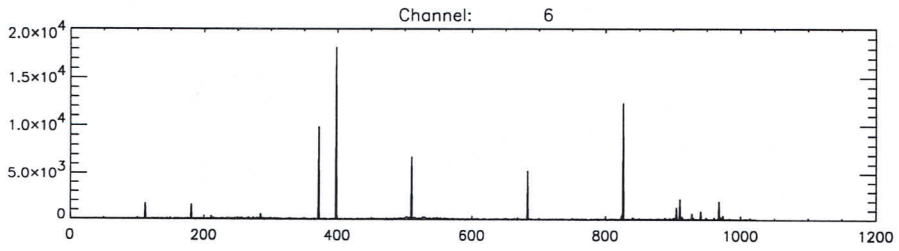
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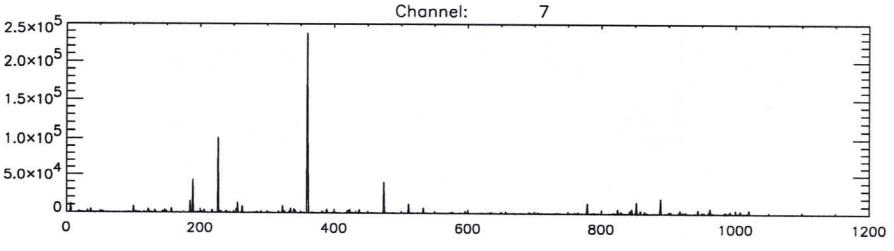
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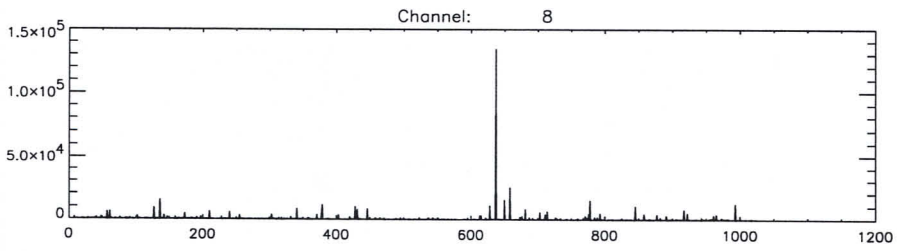
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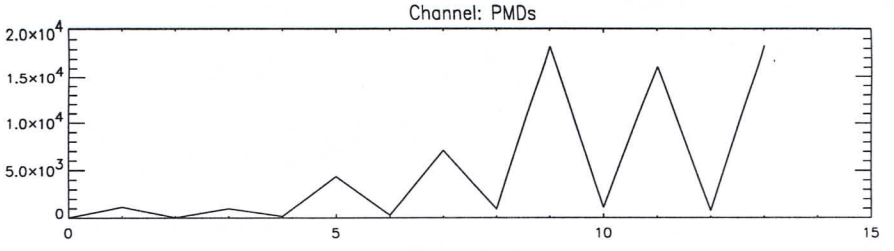
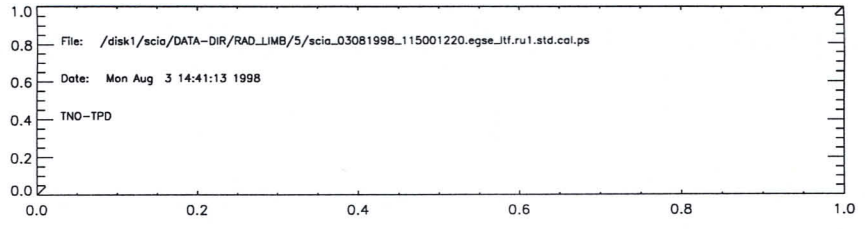

Channel: PMDs


File: /disk1/scia/DATA-DIR/RAD_LIMB/5/scia_03081998_115001220.egse_itf.ru1.std.cal.ps
Date: Mon Aug 3 14:41:13 1998
TNO-TPD

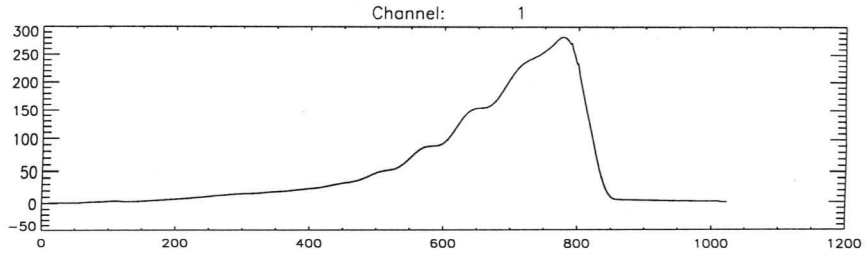
```
Time       = Mon Aug   3 14:41:46 1998
Batch      = du1
Start TOD = Mon 03-Aug-98 12:03:39
End   TOD = Mon 03-Aug-98 12:15:29
Processing= computation of average, standard dev. and rel.standard dev.
```

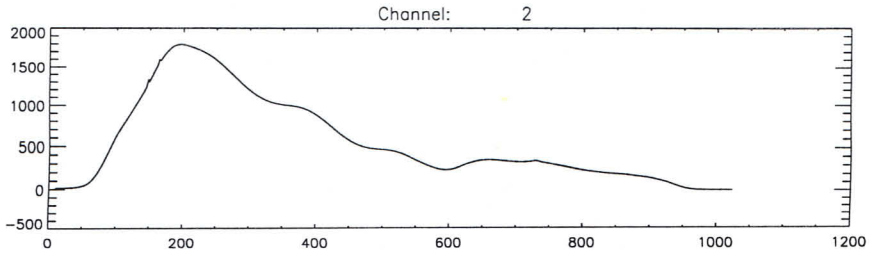
```
time       = Mon Aug  3 14:41:13 1998
batch      = ru1
Start TOD  = Mon 03-Aug-98 11:50:04
End   TOD  = Mon 03-Aug-98 12:03:39
Processing= computation of average, standard dev. and rel.standard dev.
```

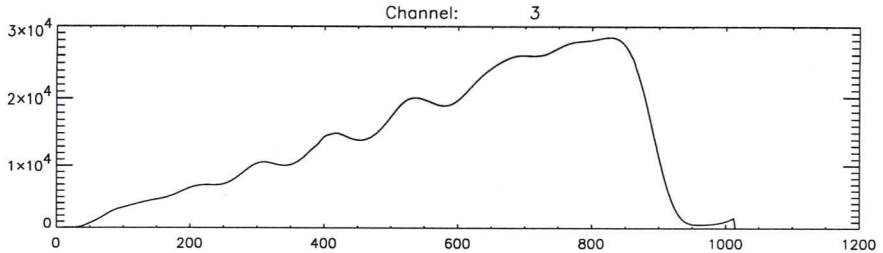
Pagenumber:

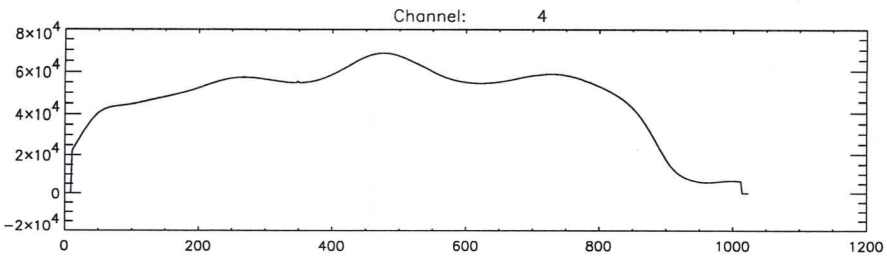
LOG SHEET SCIAMACHY CALIBRATION

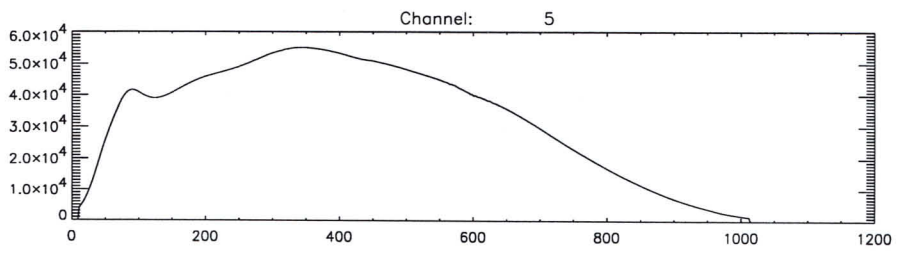
date/time	description of action	measurement filename
3/8/98	Maurice de Plate, Lou van der Spek, Erik Z.	
14.30	Verder gegaan met analyse UID 23 (3e set-up)	
	§ 4.4 3e meting.	
	Was already started by previous shift (Andre Bos c.s.)	
	idl do-radiance	
	Fout fL fpdezo	
	Name drz	
	honcho.	
	cd cal/idl	
	ch_mod +w	
17.30	Met Andre gebeld 17.30 on line opgelost	
	~~execution halted at: spectral_irradiance_f456~~	
	Variable is undefined: spectral_irradiance. f456	
	Execution halted at: divide_by_ecal_f456.	
	radiance	
	$main$	
	Probleem opgelost na over ftp-en gewenste file.	

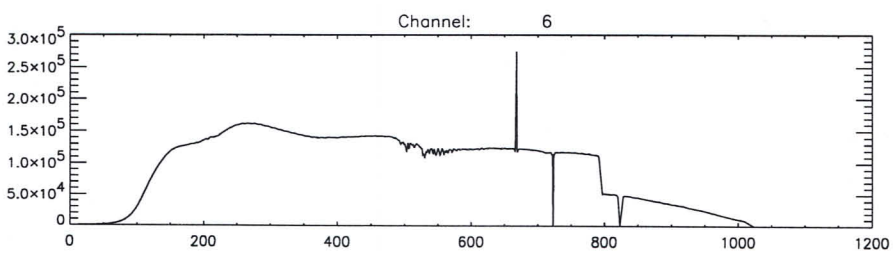

Channel: 1

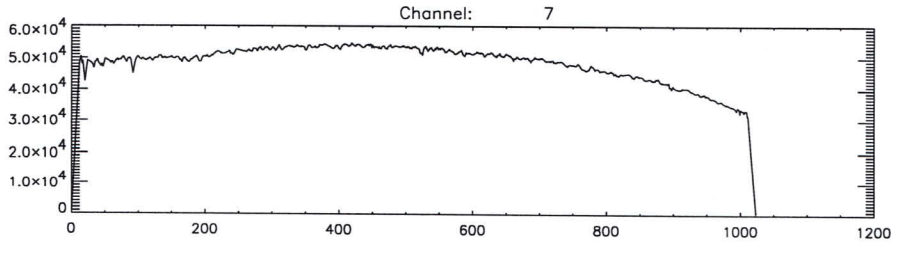

Channel: 2

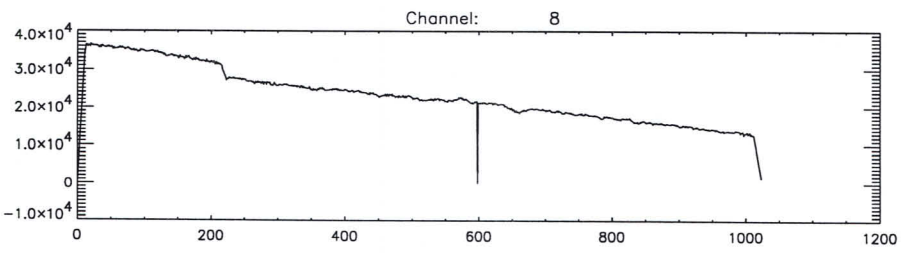

Channel: 3

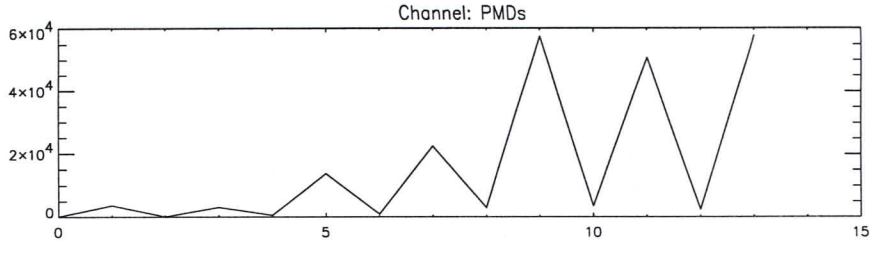

Channel: 4

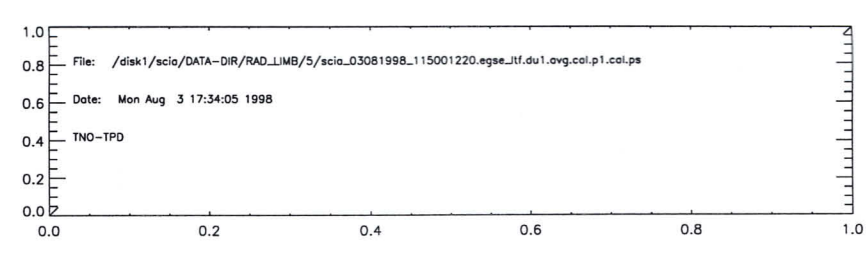

Channel: 5

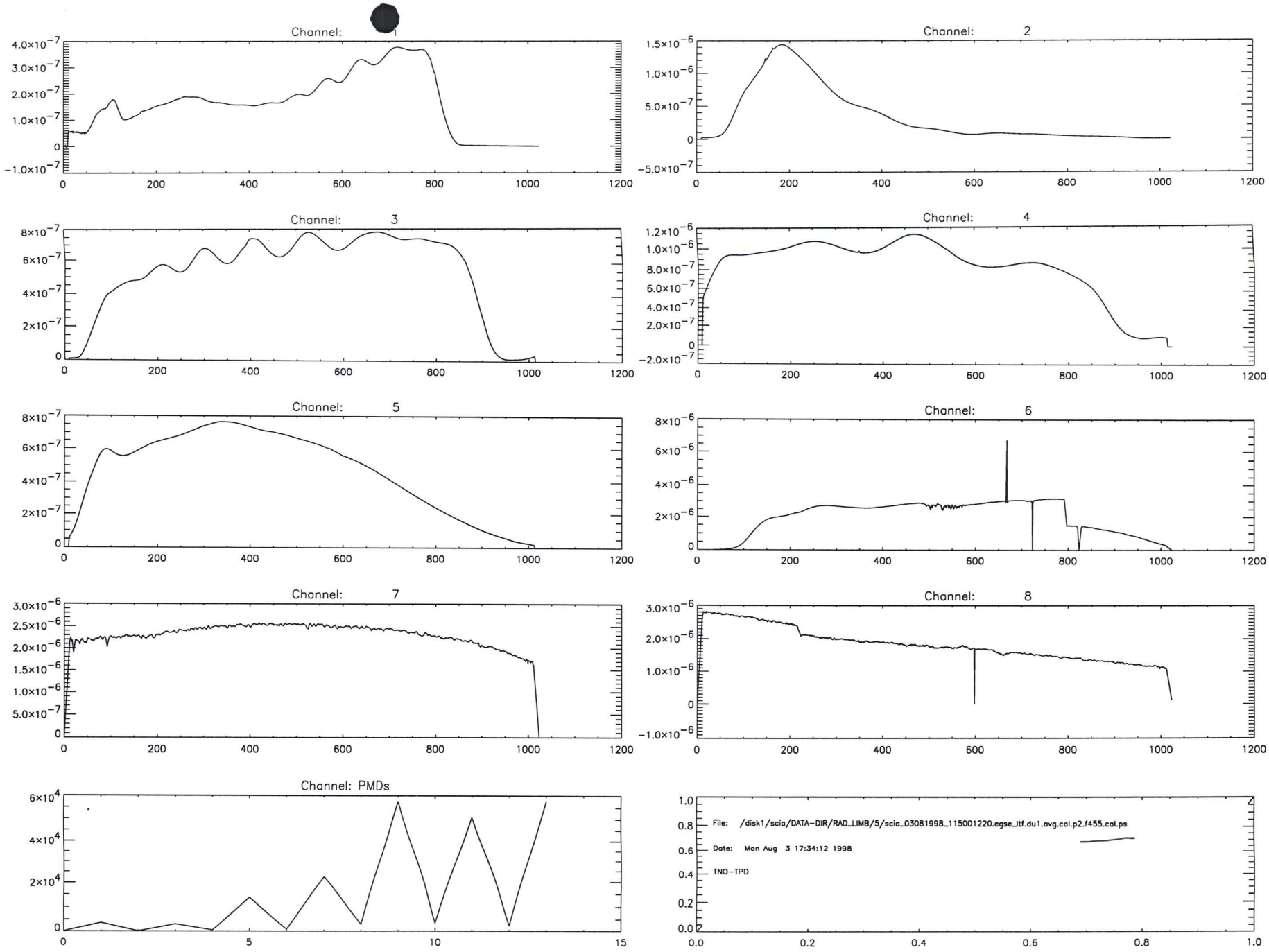

Channel: 6

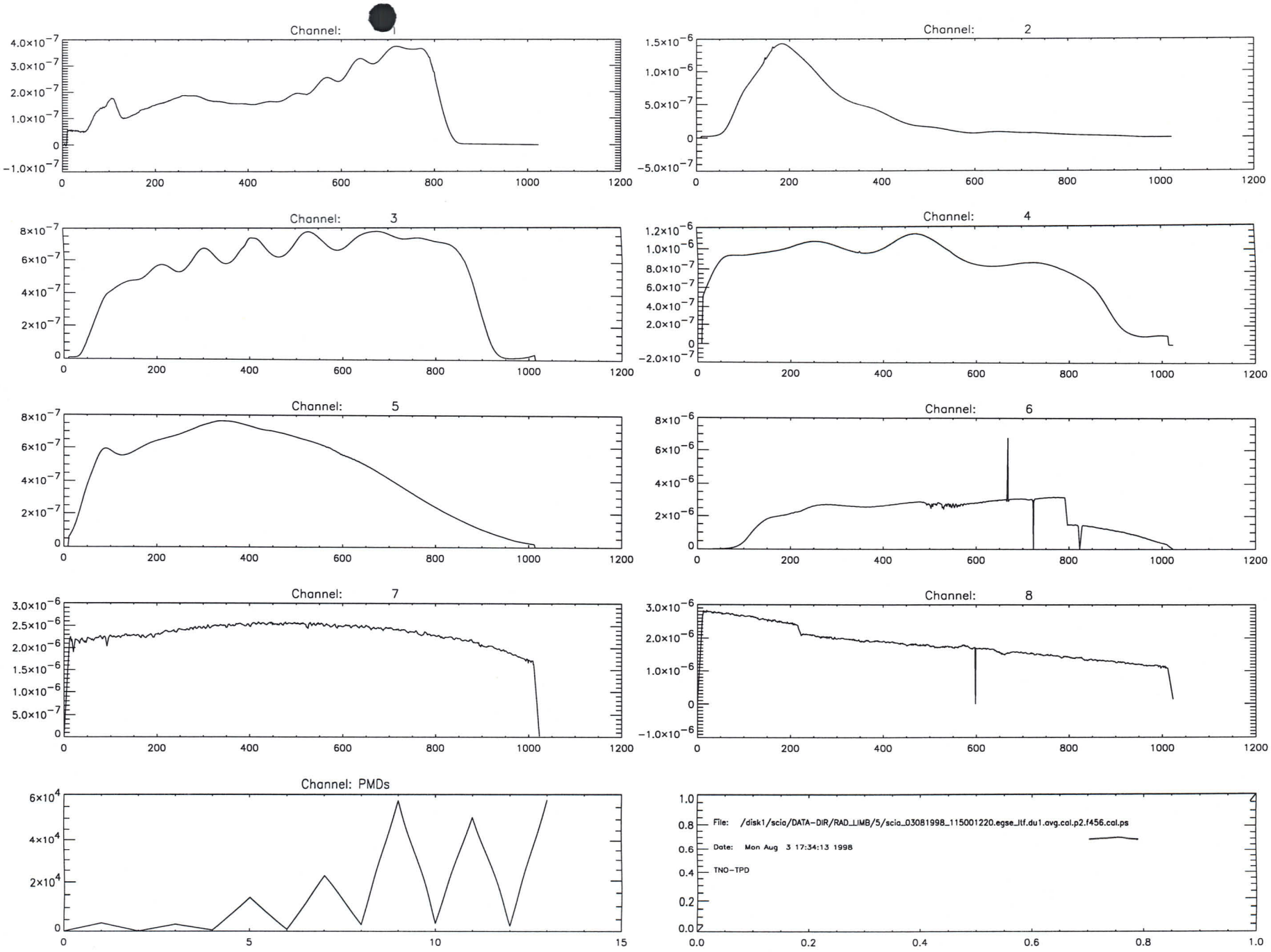

Channel: 7


Channel: 8


Channel: PMDs


File: /disk1/scia/DATA-DIR/RAD_LIMB/5/scia_03081998_115001220.egse_ltf.du1.avg.cal.p1.cal.ps
Date: Mon Aug 3 17:34:05 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_LIMB/5/scia_03081998_115001220.egse_ltf.du1.avg.cal.p2.f455.cal.ps
Date: Mon Aug 3 17:34:12 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_LIMB/5/scia_03081998_115001220.egse_ltf.du1.avg.cal.p2.f456.cal.ps
Date: Mon Aug 3 17:34:13 1998
TNO-TPD

(2)

```
Version:  0.1
Input files:

/disk1/scia/DATA-DIR/RAD_LIMB/5/scia_03081998_115001220.egse_ltf.du1.avg.cal
 and

/disk1/scia/DATA-DIR/RAD_LIMB/5/scia_03081998_115001220.egse_ltf.ru1.avg.cal
Action:
Radiance calibration + divided by calibrated irradiance (f455) + divded by bsd
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/latest/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/latest/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/latest/stray.da
Processing time: Mon Aug  3 17:34:12 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_LIMB/5/scia_03081998_115001220.egse_ltf.du1.avg.cal.p
Ambient files:
Ambient Correction file versions ac_ucp = # VERSION 0.0
ac_ucs = #VERSION 0.0
ala4lp = #VERSION 0.0
ala4ls = #VERSION 0.0
a  4lx = #VERSION 0.0
alamlp = #VERSION 0.0
alamls = #VERSION 0.0
alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
alaulp = #VERSION 0.0
alauls = #VERSION 0.0
anapnp = #VERSION 0.0
anapnx = #VERSION 0.0
anaunp = #VERSION 0.0 ASAP data
anauns = #VERSION 0.0 ASAP data
bsdf = #Date: 15/06/98 NOTE: This is preliminary data! The final keydata must
optec_window = #VERSION 0.0
reflectance = #VERSION 0.0
```

Version: 0.1
Input files:

/disk1/scia/DATA-DIR/RAD_LIMB/5/scia_03081998_115001220.egse_ltf.du1.avg.cal
and

/disk1/scia/DATA-DIR/RAD_LIMB/5/scia_03081998_115001220.egse_ltf.ru1.avg.cal
Action:
Radiance calibration + divided by calibrated irradiance (f456)+ divded by bsdf
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/latest/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/latest/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/latest/stray.da
Processing time: Mon Aug 3 17:34:12 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_LIMB/5/scia_03081998_115001220.egse_ltf.du1.avg.cal.p
Ambient files:
Ambient Correction file versions ac_ucp = # VERSION 0.0
ac_ucs = #VERSION 0.0
ala4lp = #VERSION 0.0
ala4ls = #VERSION 0.0
ε 4lx = #VERSION 0.0
alamlp = #VERSION 0.0
alamls = #VERSION 0.0
alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
alaulp = #VERSION 0.0
alauls = #VERSION 0.0
anapnp = #VERSION 0.0
anapnx = #VERSION 0.0
anaunp = #VERSION 0.0 ASAP data
anauns = #VERSION 0.0 ASAP data
bsdf = #Date: 15/06/98 NOTE: This is preliminary data! The final keydata must
optec_window = #VERSION 0.0
reflectance = #VERSION 0.0

```
#! /bin/sh
mv WS_FTP.LOG f0
mv dapbchklog f1
mv dapbseqlog f2
mv egse.inf f3
mv gemsmpara.dat f4
mv hk_ccb.dat f5
mv scia_03081998_115001220.dat f6
mv scia_03081998_115001220.egse_ltf f7
mv scia_03081998_115001220.egse_ltf.du1.avg.cal f8
mv scia_03081998_115001220.egse_ltf.du1.avg.cal.p1.cal f9
mv scia_03081998_115001220.egse_ltf.du1.avg.cal.p1.cal.log f10
mv scia_03081998_115001220.egse_ltf.du1.avg.cal.p1.cal.ps f11
mv scia_03081998_115001220.egse_ltf.du1.avg.cal.p1.cal.ps.log f12
mv scia_03081998_115001220.egse_ltf.du1.avg.cal.p2.f455.cal f13
mv scia_03081998_115001220.egse_ltf.du1.avg.cal.p2.f455.cal.keydata f14
mv scia_03081998_115001220.egse_ltf.du1.avg.cal.p2.f455.cal.log f15
mv scia_03081998_115001220.egse_ltf.du1.avg.cal.p2.f455.cal.ps f16
mv scia_03081998_115001220.egse_ltf.du1.avg.cal.p2.f455.cal.ps.log f17
mv scia_03081998_115001220.egse_ltf.du1.avg.cal.p2.f456.cal f18
mv scia_03081998_115001220.egse_ltf.du1.avg.cal.p2.f456.cal.keydata f19
mv scia_03081998_115001220.egse_ltf.du1.avg.cal.p2.f456.cal.log f20
n  scia_03081998_115001220.egse_ltf.du1.avg.cal.p2.f456.cal.ps f21
mv scia_03081998_115001220.egse_ltf.du1.avg.cal.p2.f456.cal.ps.log f22
mv scia_03081998_115001220.egse_ltf.du1.avg.cal.ps f23
mv scia_03081998_115001220.egse_ltf.du1.log f24
mv scia_03081998_115001220.egse_ltf.du1.rel_std.cal f25
mv scia_03081998_115001220.egse_ltf.du1.rel_std.cal.ps f26
mv scia_03081998_115001220.egse_ltf.du1.std.cal f27
mv scia_03081998_115001220.egse_ltf.du1.std.cal.ps f28
mv scia_03081998_115001220.egse_ltf.ru1.avg.cal f29
mv scia_03081998_115001220.egse_ltf.ru1.avg.cal.ps f30
mv scia_03081998_115001220.egse_ltf.ru1.log f31
mv scia_03081998_115001220.egse_ltf.ru1.rel_std.cal f32
mv scia_03081998_115001220.egse_ltf.ru1.rel_std.cal.ps f33
mv scia_03081998_115001220.egse_ltf.ru1.std.cal f34
mv scia_03081998_115001220.egse_ltf.ru1.std.cal.ps f35
```

```
#! /bin/sh
mv f0 WS_FTP.LOG
mv f1 dapbchklog
mv f2 dapbseqlog
mv f3 egse.inf
mv f4 gemsmpara.dat
mv f5 hk_ccb.dat
mv f6 scia_03081998_115001220.dat
mv f7 scia_03081998_115001220.egse_ltf
mv f8 scia_03081998_115001220.egse_ltf.du1.avg.cal
mv f9 scia_03081998_115001220.egse_ltf.du1.avg.cal.p1.cal
mv f10 scia_03081998_115001220.egse_ltf.du1.avg.cal.p1.cal.log
mv f11 scia_03081998_115001220.egse_ltf.du1.avg.cal.p1.cal.ps
mv f12 scia_03081998_115001220.egse_ltf.du1.avg.cal.p1.cal.ps.log
mv f13 scia_03081998_115001220.egse_ltf.du1.avg.cal.p2.f455.cal
mv f14 scia_03081998_115001220.egse_ltf.du1.avg.cal.p2.f455.cal.keydata
mv f15 scia_03081998_115001220.egse_ltf.du1.avg.cal.p2.f455.cal.log
mv f16 scia_03081998_115001220.egse_ltf.du1.avg.cal.p2.f455.cal.ps
mv f17 scia_03081998_115001220.egse_ltf.du1.avg.cal.p2.f455.cal.ps.log
mv f18 scia_03081998_115001220.egse_ltf.du1.avg.cal.p2.f456.cal
mv f19 scia_03081998_115001220.egse_ltf.du1.avg.cal.p2.f456.cal.keydata
mv f20 scia_03081998_115001220.egse_ltf.du1.avg.cal.p2.f456.cal.log
n  f21 scia_03081998_115001220.egse_ltf.du1.avg.cal.p2.f456.cal.ps
mv f22 scia_03081998_115001220.egse_ltf.du1.avg.cal.p2.f456.cal.ps.log
mv f23 scia_03081998_115001220.egse_ltf.du1.avg.cal.ps
mv f24 scia_03081998_115001220.egse_ltf.du1.log
mv f25 scia_03081998_115001220.egse_ltf.du1.rel_std.cal
mv f26 scia_03081998_115001220.egse_ltf.du1.rel_std.cal.ps
mv f27 scia_03081998_115001220.egse_ltf.du1.std.cal
mv f28 scia_03081998_115001220.egse_ltf.du1.std.cal.ps
mv f29 scia_03081998_115001220.egse_ltf.ru1.avg.cal
mv f30 scia_03081998_115001220.egse_ltf.ru1.avg.cal.ps
mv f31 scia_03081998_115001220.egse_ltf.ru1.log
mv f32 scia_03081998_115001220.egse_ltf.ru1.rel_std.cal
mv f33 scia_03081998_115001220.egse_ltf.ru1.rel_std.cal.ps
mv f34 scia_03081998_115001220.egse_ltf.ru1.std.cal
mv f35 scia_03081998_115001220.egse_ltf.ru1.std.cal.ps
```

size: 146 kb. should be approx 150Kb

Note: all files should be present, if not:
(a) Check file <D> using SOLAN and check whether du, and ru labels are present in dremark1 labels
(b) Check if enough disk space is available (Unix command `df -k | more`).

A. Bos ~~came~~ kwam tot hier

overgenomen door Maurice te Plate & Lou van der Spek

Print postscript

Print postscript files: `lpr -P<printer> *.ps`
Contents dark file `*du*.cal.ps` should be approx. constant within channels: (Y) / N
Contents light file `*ru*.cal.ps` should resemble white light source: (Y) / N

Contents of `*rel_std*.ps` files should be smaller than 0.01 (pixel 300 -- 800) for all channels. (Y) / N
If not, value is: _____

Add postscript images to logbook, done (Y) / N

Print logfiles `lpr -P<printer> *.log`
Add logfiles to logbook, done (Y) / N

Radiance processing

Run radiance `idl do_radiance` In IDL window

Check radiance `ls -l * | more` In DATA-DIR window

Size of file `<D>.du*.avg.cal.p1.cal` 146 kB should be approx 150Kb

Size of file ~~`<D>.du*.avg.cal.p2.cal`~~ _____

*.avg.cal.p2.f455.cal → 146kB
*.avg.cal.p2.f456.cal 146kB

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	A Boz 3-8-98	
	What's the name of the (main) data input files generated by the EGSE? (*.dat)	scia-0308198-115001220.dat	(A)
	Setup a three-window configuration on your SUN.		see course descr.
Cnstr directory	cd ~/DATA-DIR/RAD-LIMB ; ls -l highest number in directory? New directory: mkdir <B+1> ls -l What's now the highest number in directory? <C> should be <B> + 1	4 5 (Y) / N	Note: In window DATA-DIR (B) (C)
	directory name is:	~/DATA-DIR/RAD-LIMB/<C>	(DIR-NAME)
Copy data	See Analysis sheet: Transfer Data File	(Y) / N	In DATA-DIR window
Cnstr EGSE_LTF	cal_raw2ltf . (Error messages are not necessarily fatal; check with SOLAN --in solan window-- whether output file is okay: there should be a signal present, and dremark1 labels should be filled) ls -l *.egse_ltf What's the name of the egse_ltf file <D> should be <A>.egse_ltf	scia-0308198-115001220.dat (Y) / N	Note: In window DATA-DIR; ***don't forget the dot !!!;*** *May take more than 15 mins.* (D)
Cnstr CAL files	idl run_averscia (and select file <D> when asked)		Note: In window IDL
Check CAL files	Dark files: ls -l <DIR-NAME>/*du*.cal size: ls -l <DIR-NAME>/*ru*.cal	14646	should be approx 150Kb

*p1 *.cal.ps
.p2.f45.cal.ps

Check radiance visually	`lpr -P<printer>` `*.p[12] *.cal.ps` Value of P1 and P2 file resemble white light source?	(Y) / N
	Add postscript images to logbook, done	(Y) / N
Print logfiles	`lpr -P<printer>` `*.p[12] .cal log` Add logfiles to logbook, done	(Y) / N

→ ~~*.p[12].f45*.cal.log~~ *.p2.f45*.cal.log

Back up	Create 3 sets of backup CDs of directory <DIR-NAME> (One CD has a capacity of 600 Mbytes, the UNIX command `/usr/bin/du -k .` gives the number of kilo bytes in the current directory). Name of backup CDs	0308q8E data-dir/rad_limb/5 See analysis sheet BackUp

UID 23

Sign:	Name	mteplate
	Date and time	3/8/95
	Signature	

Pagenumber:

LOG SHEET SCIAMACHY CALIBRATION

date/time	description of action	measuremement filename
3/8/98		
17.45 mvr	print log files: voor bewerking p1 wordt volgens mij geen onderscheid gemaakt tussen de FEL lampen F455 en F456	
	lpr -P hp6mp *.p[12].f45*.cal.log	
	geldt alleen voor p2 geval:	
	lpr- P hp6mp *.p2.f45*.cal.log	
19.30 →	Procedure voor back-uppen op MOD niet te vinden. De data werd overgeFTP'd van scia6 Naar tpdezo	
20.15 →	FEL lamp F456 werd opgestart nadat eerst FEL lamp F455 gedemonteerd was.	
21.03 →	Einde UID 23 meting met andere FEL lamp. (F456)	
	Alle files uit SCIA6 home/scia/DATA-DIR/RAD_Limb	
	werden gebackuped (directory's 5 en 6) naar	
	tpdezo /mod_mnt/data-dir/RAD_Limb	
	Niet gebach-uped op MOD (procedure on vindbaar)	
22.00	Analyse gestart FEL lamp 456 meting UID 23	
	Name ~~DAT~~ 0215_18.23.08_GEN_LIMB	

22.30 → Analyse

Formal Run of Measurement

(Measurement ID) GEN_NDF_LIMB

Request for Actual Status		(cross out entries that are **not** requested.)
Request for Modification		(fill in only entries to be modified)
Request for Run	X	(no entries = run based on actual default settings)

Scanner Positions

Azimuth	-45.00	deg
Elevation	-12.70	deg

Timeline for each Data Acquisition Period during Measurement

	1	2	3	4	5	6	7	8	9	10
State ID	30									
Repetitions	10									

State Parameters for States used in Timeline (State ID must be given)

Channel	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding	PET [s] or H#	Co-Adding
1a	64	1						
1b	64	1						
2b	8	8						
2a	8	8						
3	4	16						
4	2	32						
5	2	32						
6	0,5	64						
7	0,5	64						
8	1	64						
State ID								

Stimuli Settings for Existing Blocks in Measurement

Block No	Stimuli Setup ID	PPC [deg]	Polarizer [deg]	Shutter open/close	Acquisition Time [s]	Lambda [nm] Start	Stop	Step	Repetition Factor	Message	OS Setup Time [s]
1	0	-	-	-	-	-	-	0	1	RU1	
2	0	-	-	-	-	-	-	0	1	DU1	

Measurement Data Description

Test Purpose	UID 37
Remark	
Data Directory	0215_12.30.00_GEN_NDF_LIMB

Signatures

	Date	Signature
Issued	3-8-'98	
Performed	3-8-98	

0215_09.57.25_GEN_NDF_LIMB => stopped interrupted after detection of problems

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Erik Dantsman 3/8/98	
	What's the name of the (main) data input file generated by the EGSE? (*.dat)	scia_03081998_123409169.dat	(A)
	Setup a three-window configuration on your SUN.		see course descr.

Cnstr directory	`cd ~/DATA-DIR/RAD-LIMB ; ls -l`
	highest number in directory?
	New directory: `mkdir <B+1>`
	`ls -l`
	What's now the highest number in directory?
	<C> should be <B> + 1
		
		6
		Y / N
			Note: In window DATA-DIR
			(B)
			(C)

	directory name is:	`~/DATA-DIR/RAD-LIMB/<C>`	(DIR-NAME)
Cnstr EGSE_LTF	`cal_raw2ltf .` (Error messages are not necessarily fatal; check with SOLAN --in solan window-- whether output file is okay: there should be a signal present, and `dremark1` labels should be filled) `ls -l *.egse_ltf` What's the name of the egse_ltf file <D> should be <A>.egse_ltf	 scia_03081998_123409169.egse_ltf Y / N	Note: In window DATA-DIR; ***don't forget the dot !!!;*** *May take more than 15 mins.* (D) ltf.
Cnstr CAL files	`idl run_averscia` (and select file <D> when asked)		Note: In window IDL
Check CAL files	Dark files: `ls -l <DIR-NAME>/*DU*.cal` size:	 ✓	 should be approx 150Kb
	`ls -l <DIR-NAME>/*IU*.cal` size:	 ✓	 should be approx 150Kb
	Note: all files should be present, if not:		

(a) Check file <D> using SOLAN and check whether DU, and IU labels are present in dremark1 labels
(b) Check if enough disk space is available (Unix command `df -k | more`).

Print postscript

Print postscript files:
`lpr -P<printer> *.ps`
Contents dark file `*DU*.CAL.ps` should be approx. constant within channels: Y / N
Contents light file `*IU*.cal.ps` should resemble white light source: Y / N

Contents of `*REL_STD*.ps` files should be smaller than 0.01 (pixel 300 -- 800) for all channels. Y / N
If not, value is: _____

Add postscript images to logbook, done Y / N

Print logfiles

`lpr -P<printer> *.log`
Add logfiles to logbook, done Y / N

Radiance processing

Run radiance

`idl do_radiance` In IDL window

Check radiance

`ls -l * | more` In DATA-DIR window

Size of file `<D>.du*.avg.cal.p1.cal` _____ should be approx 150Kb

Size of file `<D>.du*.avg.cal.p2.cal` _____

Check radiance visually

`lpr -P<printer> *.p[12].*.cal.ps`

	Value of P1 and P2 file resemble white light source?	Y / N
	Add postscript images to logbook, done	Y / N
Print logfiles	`lpr -P<printer> *.p[12].cal.log`	✓
	Add logfiles to logbook, done	Y / N
Back up	Create 3 sets of backup CDs of directory <DIR-NAME> (One CD has a capacity of 600 Mbytes, the UNIX command `/usr/bin/du -k .` gives the number of kilo bytes in the current directory).	See analysis sheet BackUp
	Name of backup CDs	_____
Sign:	Name	Erik Zoutman
	Date and time	3/8/98 21h00
	Signature	_____

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Zondervan 3/8/98	

Backup data	Let <D> be the directory you want to backup.
	`cd <D>`
	`mk_filetr`
	`ls -l | more`
	Are the files l_names and s_names present?
	If not, are you sure that the function `mk_filetr` executed?
	`./s_names`
	ls -l more
	All file names of the form `f<digit>`?
	`lpr -P<printer>`
	`s_names l_names`
	Add output to log book, done?
		Y / N
		Y / N
		Y / N
			In DATA-DIR window

	Via ftp on CD-writer PC: copy files in directory <D> (including s_names and s_names) to PC (On PC maintain directory structure of DATA-DIR).	files in directory on PC	In DATA-DIR window
Backup CORR directory	Do always Let <D> be the directory `~/DATA-DIR/CORR` execute: ./l_names		
	Via ftp on CD-writer PC: copy files in directory <D> to PC (On PC maintain directory structure of DATA-DIR). So, you write the whole contents of the `DATA-DIR/CORR` directory.	files in directory on PC	
Backup:	Write 3CDs (Follow JGS' Gear instructions), Done?	Y / N	
Back up On MOD:	Copy (via FTP) data from SUN named `scia6` to SUN named `tpdezo`.		

Copy to MOD (Follow instructions in file /home/drz/DOC/MOD*) Note, normally, you don't have to mount the MOD.

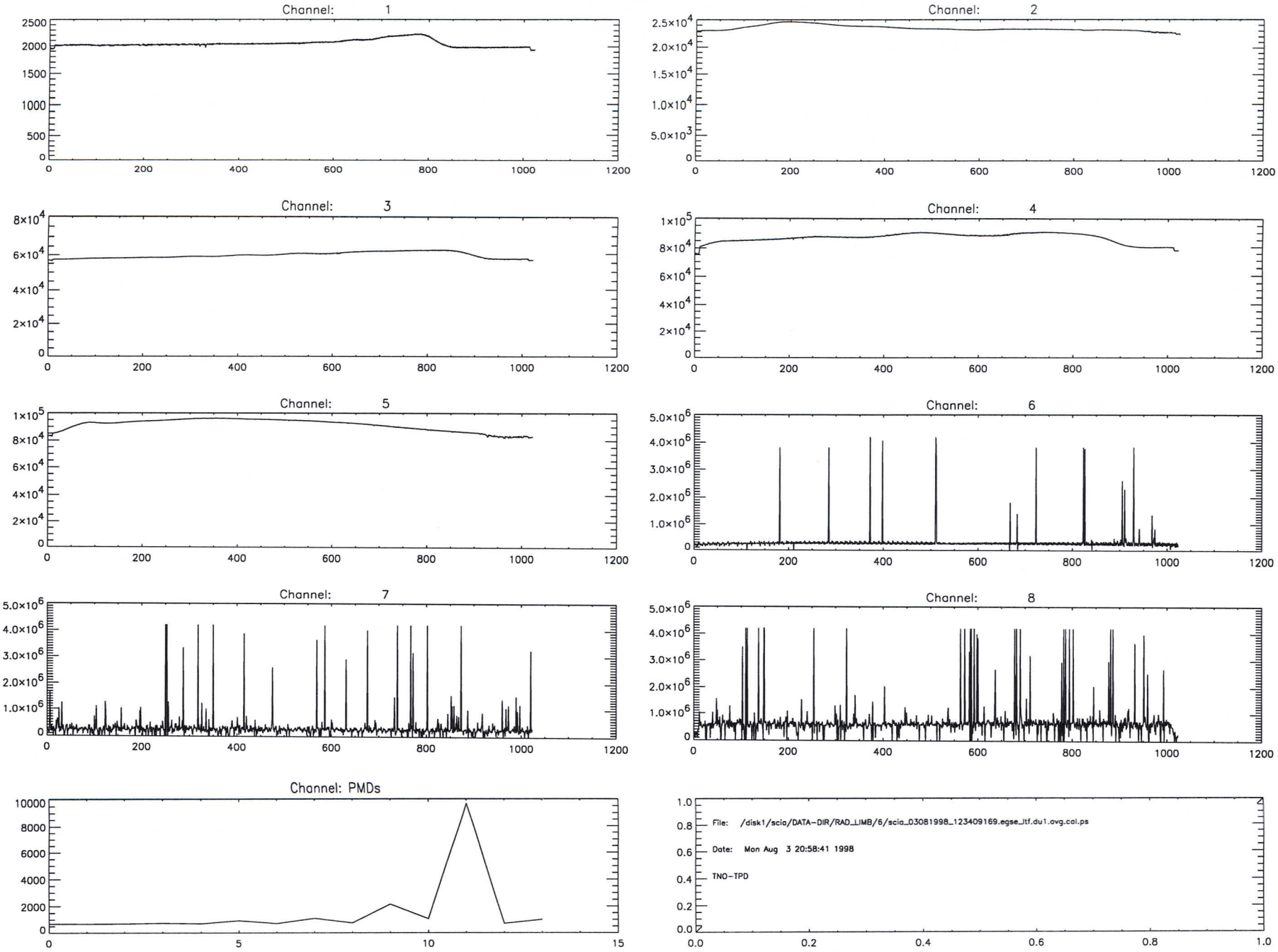
Copy contents of one CD (or via ftp) on the two other SUN workstations that are used for offline analysis, Done? Y / N

tpdezo!

Sign: Name ____________

Date and time ____________

Signature ____________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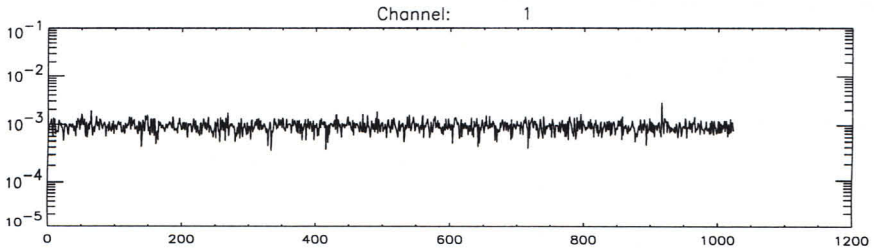
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_LIMB/6/scia_03081998_123409169.egse_ltf.du1.avg.cal.ps
Date: Mon Aug 3 20:58:41 1998
TNO-TPD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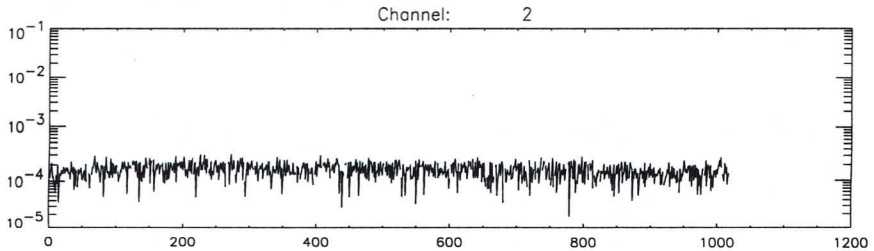
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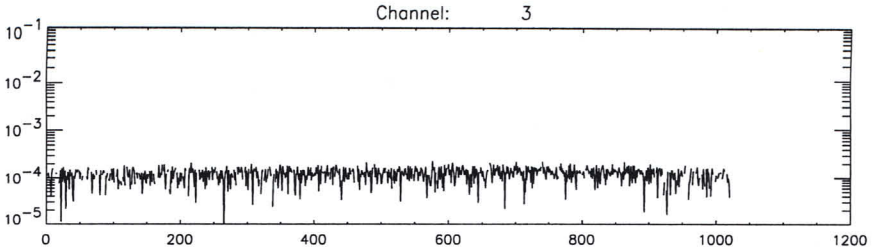
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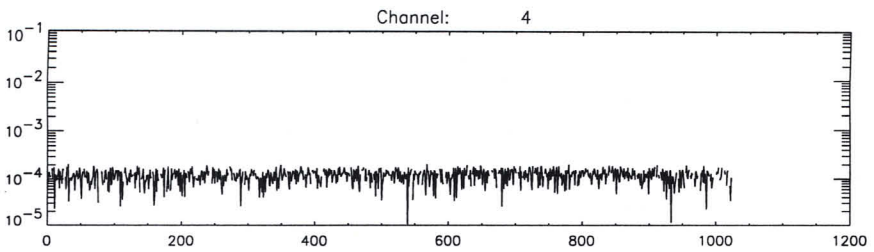
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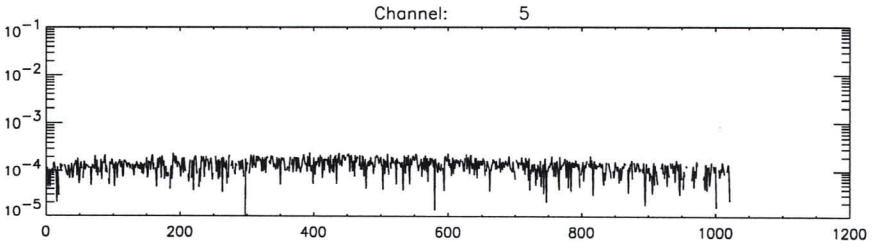
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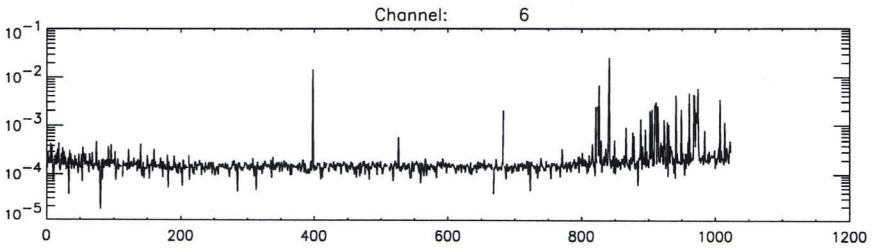
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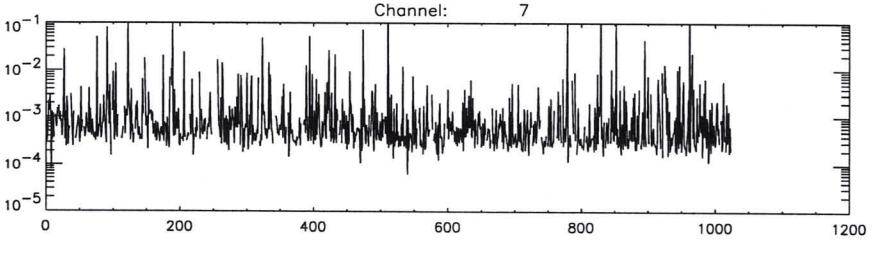
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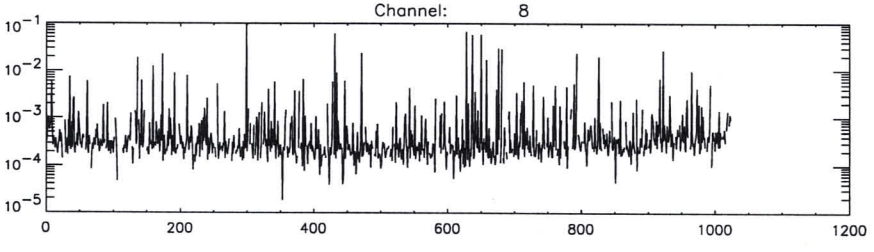
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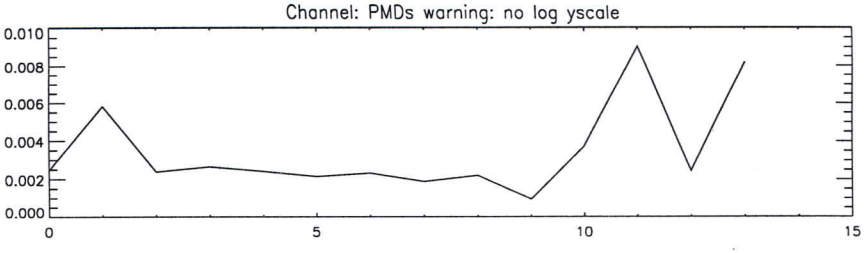
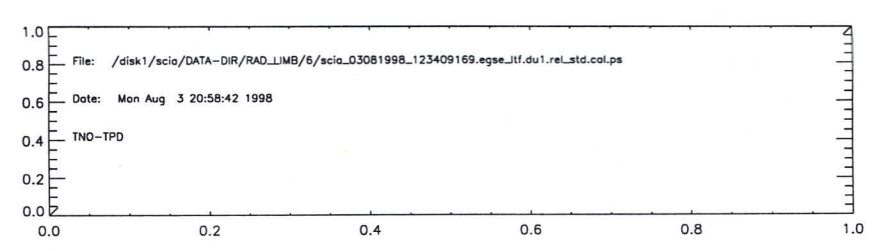

Channel: PMDs warning: no log yscale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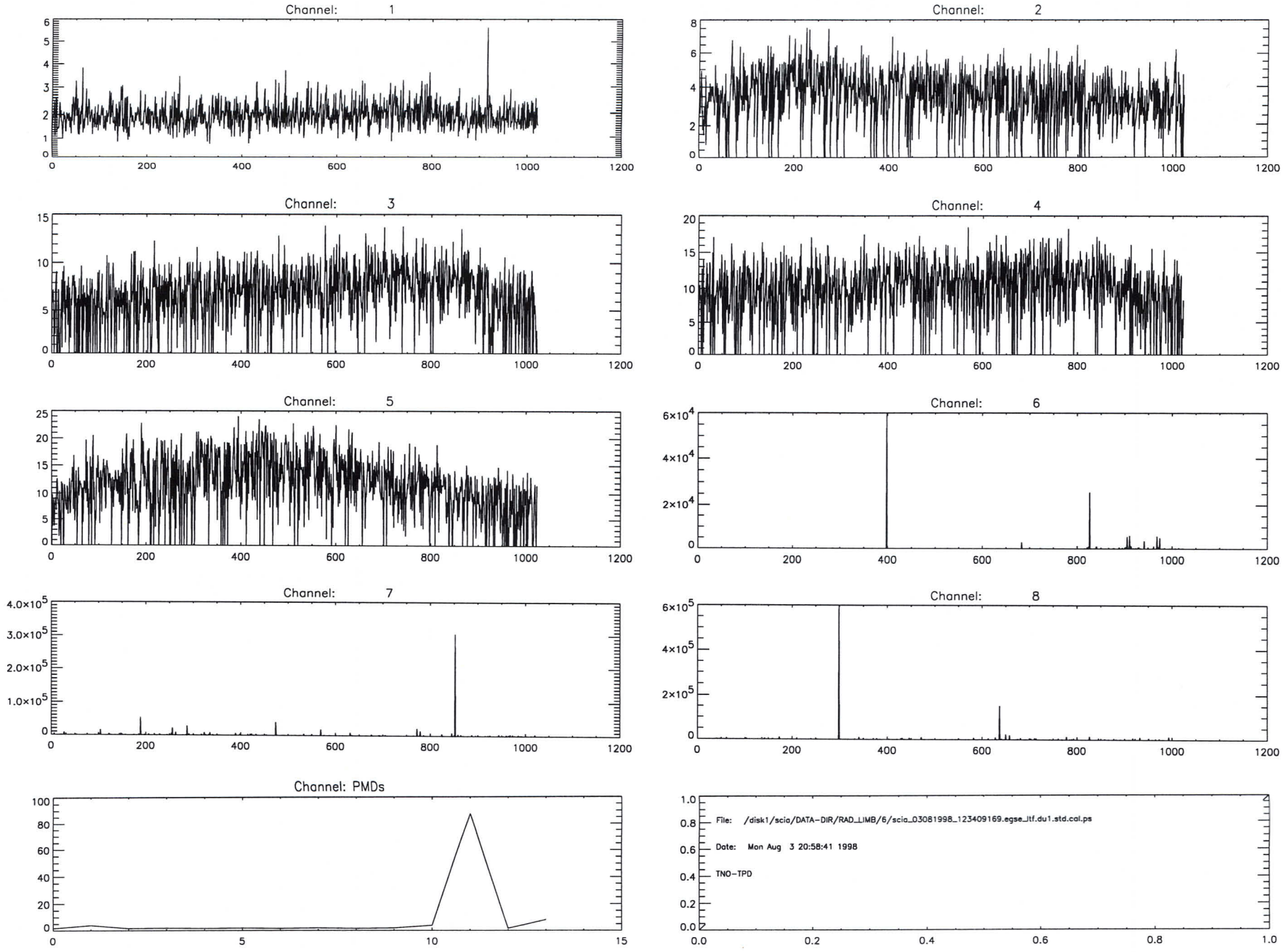
Date: Mon Aug 3 20:58:42 1998
TNO-TPD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Channel: 2
Channel: 3
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Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
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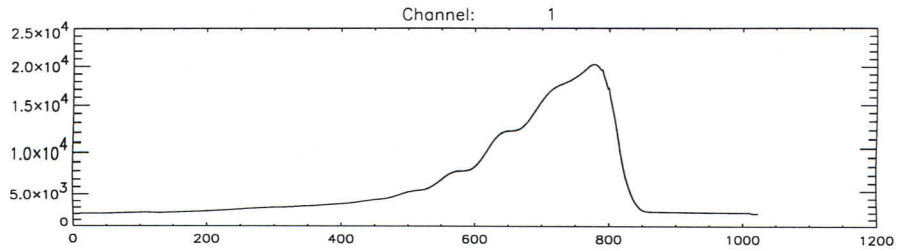
TNO-TPD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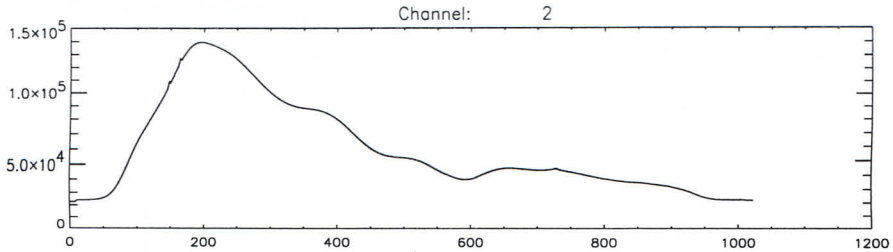
600
800
1000
1200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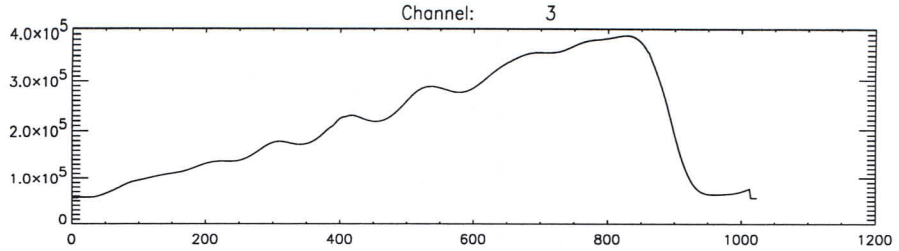
800
1000
1200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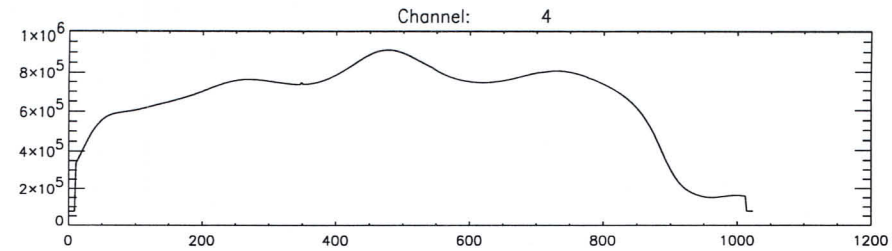
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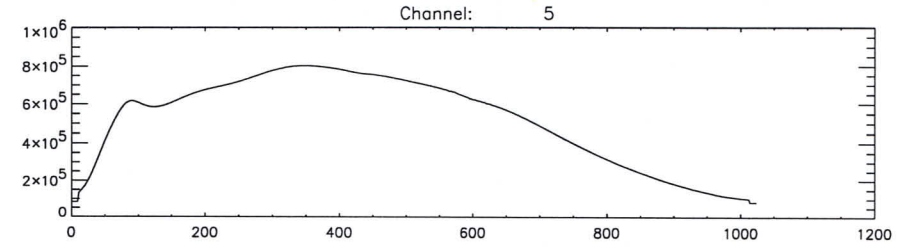
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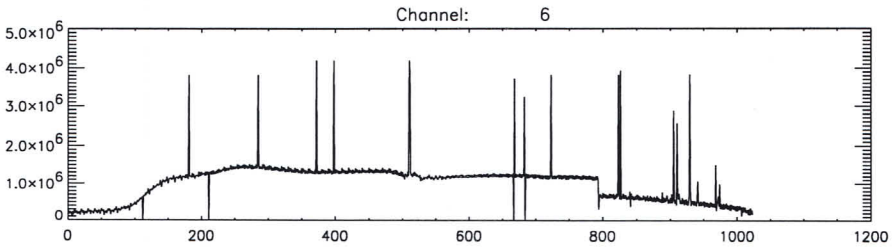
600
800
1000
1200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2.0x10^6
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600
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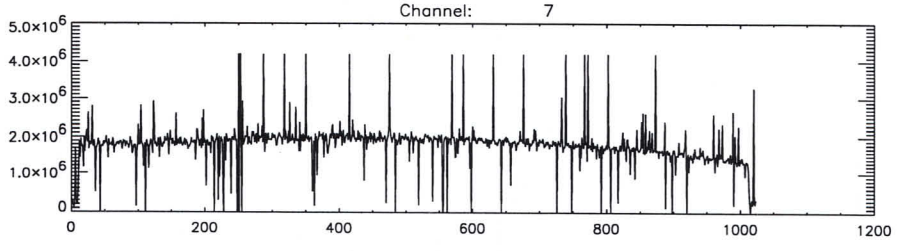
1000
1200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1000
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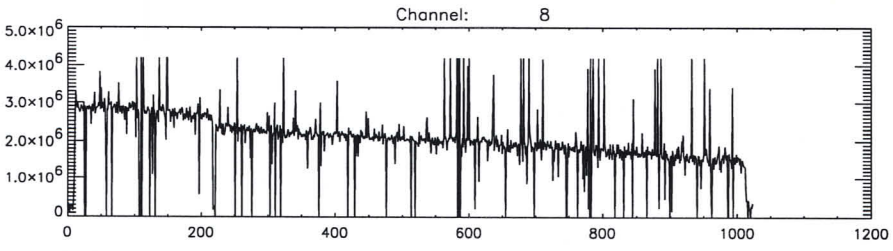
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800
1000
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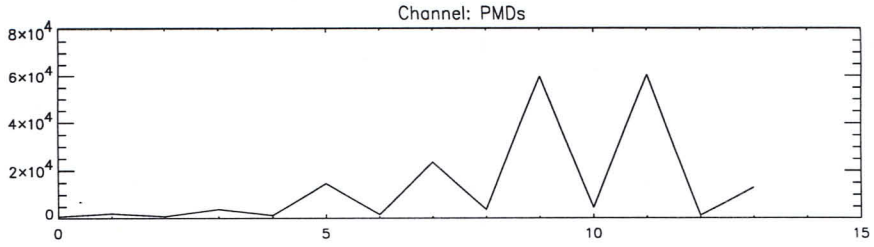
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0
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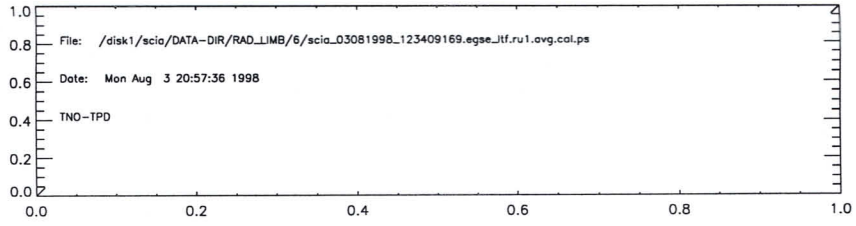
10
15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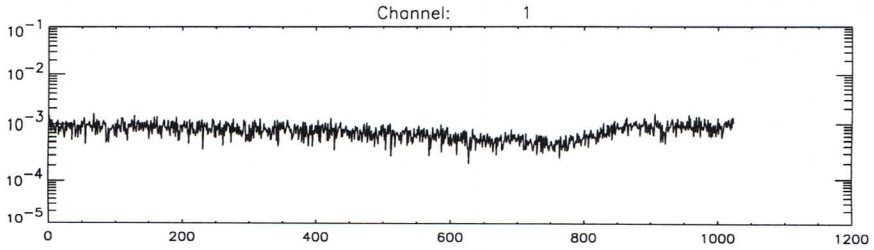
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0
File: /disk1/scia/DATA-DIR/RAD_LIMB/6/scia_03081998_123409169.egse_ltf.ru1.avg.cal.ps
Date: Mon Aug 3 20:57:36 1998
TNO-TPD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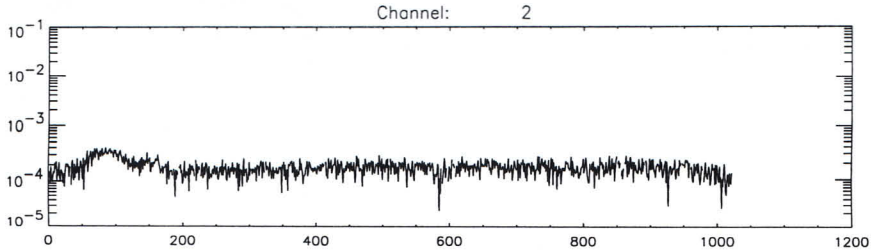
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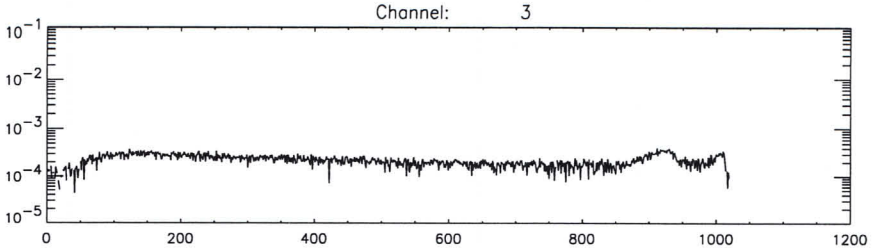
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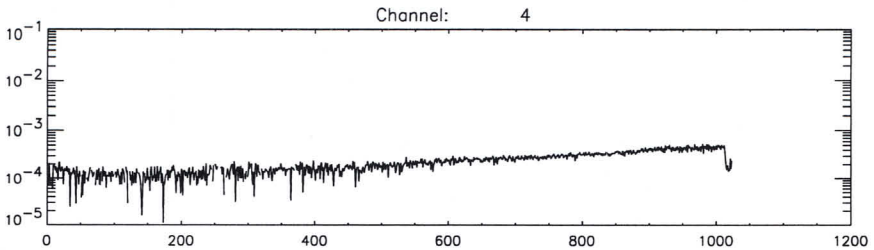
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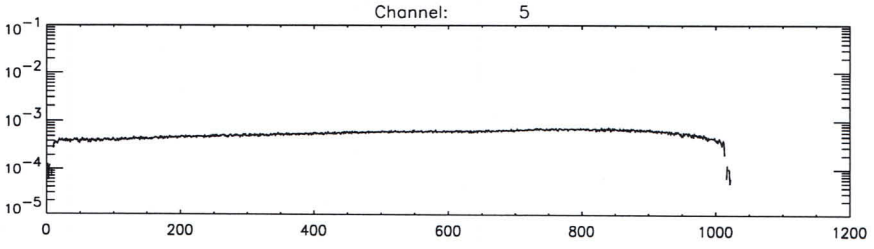
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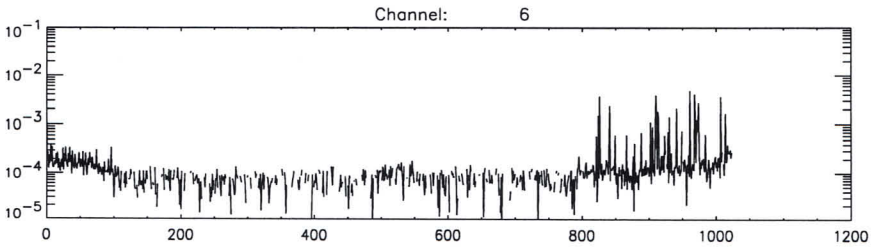
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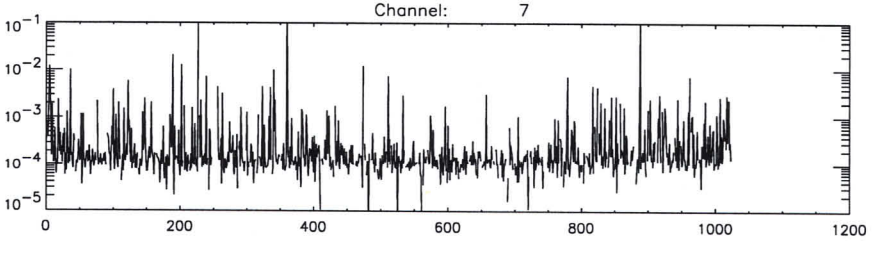
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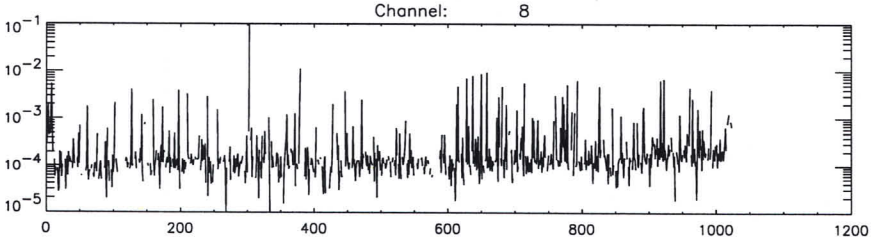
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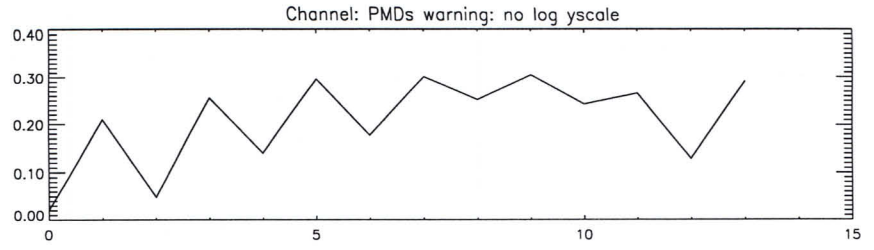
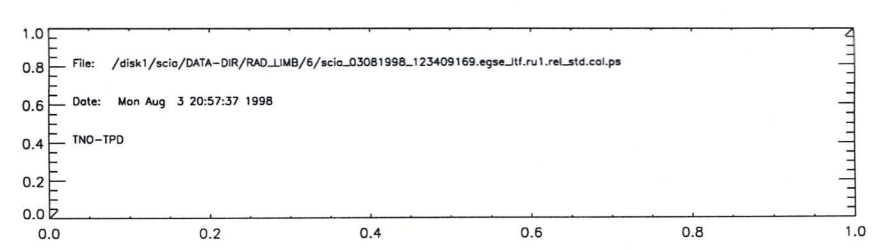

Channel: PMDs warning: no log yscale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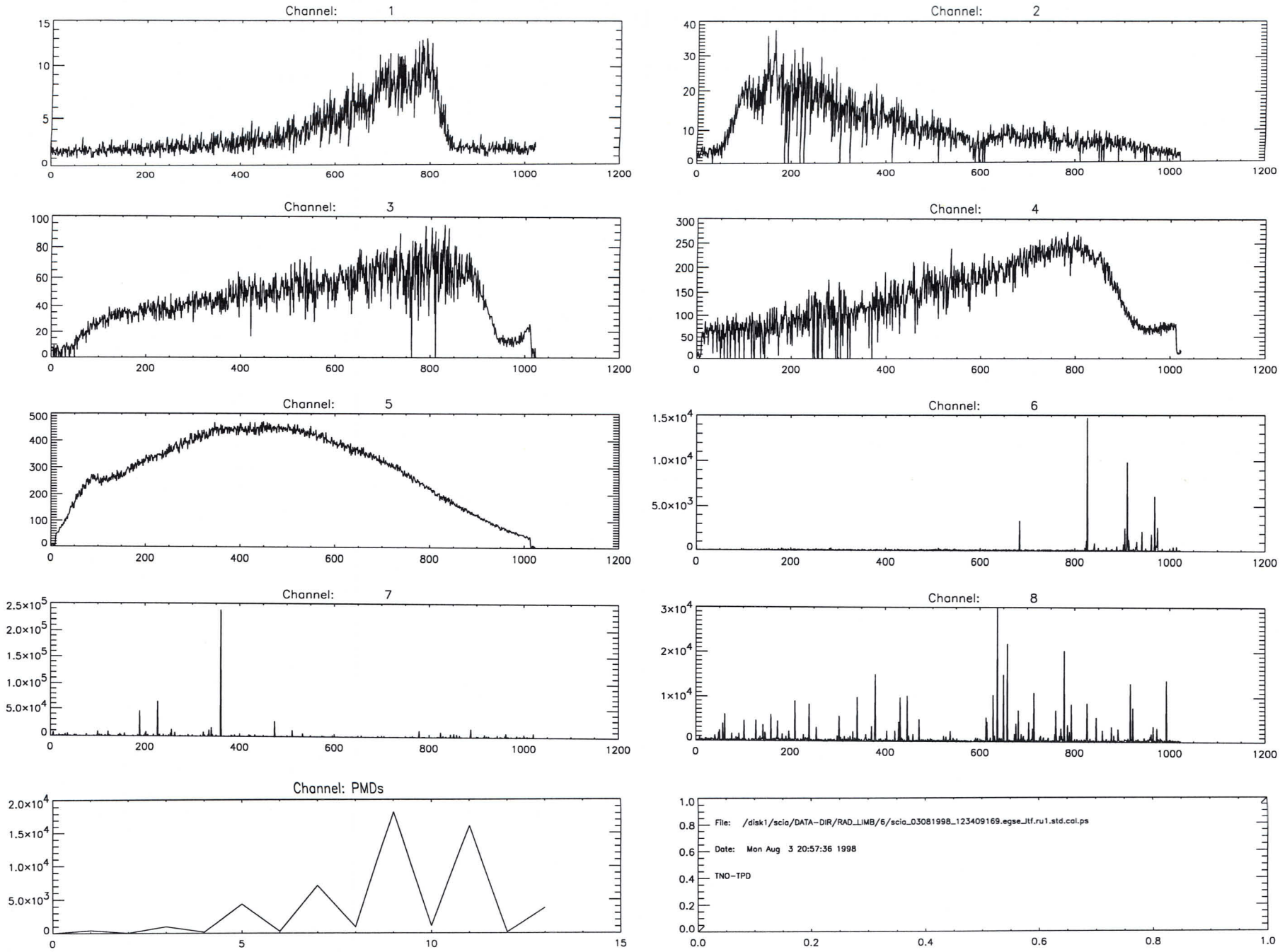
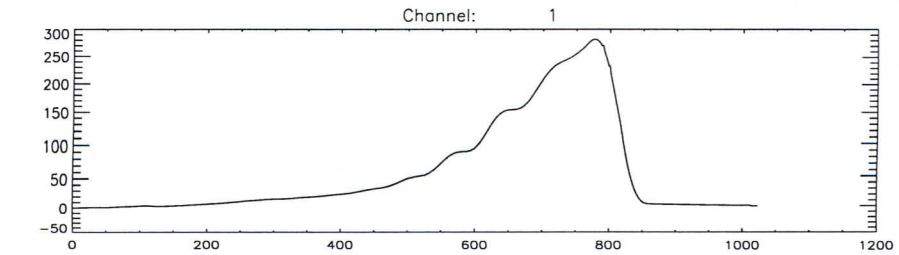
Date: Mon Aug 3 20:57:37 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/RAD_LIMB/6/scia_03081998_123409169.egse_ltf.ru1.std.cal.ps
Date: Mon Aug 3 20:57:36 1998
TNO-TPD

```
time       = Mon Aug  3 20:58:42 1998
batch      = du1
Start TOD = Mon 03-Aug-98 12:48:00
End   TOD = Mon 03-Aug-98 12:59:35
Processing= computation of average, standard dev. and rel.standard dev.
```

```
time       = Mon Aug  3 20:57:37 1998
batch      = ru1
Start TOD = Mon 03-Aug-98 12:34:35
End   TOD = Mon 03-Aug-98 12:48:00
Processing= computation of average, standard dev. and rel.standard dev.
```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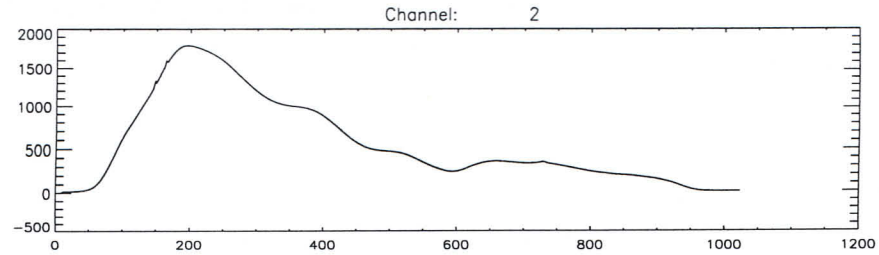
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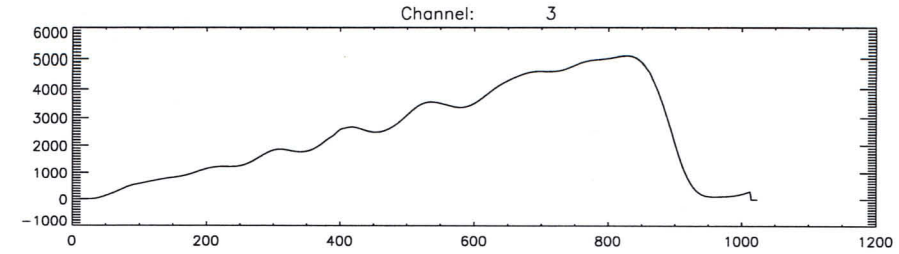
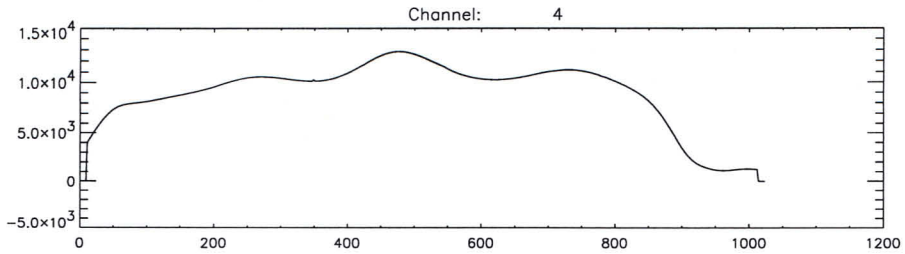

Channel: 3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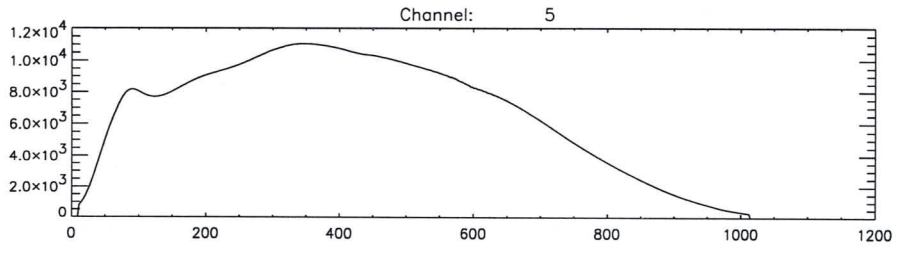
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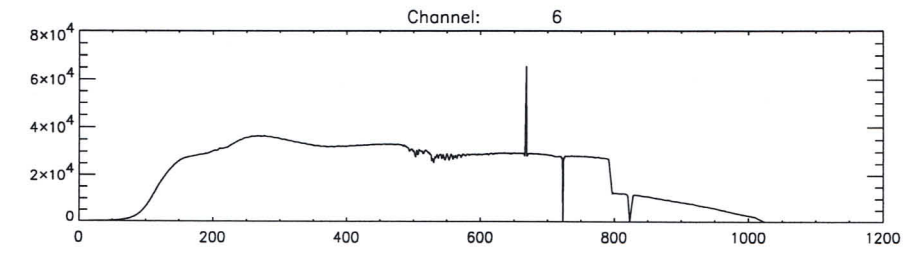
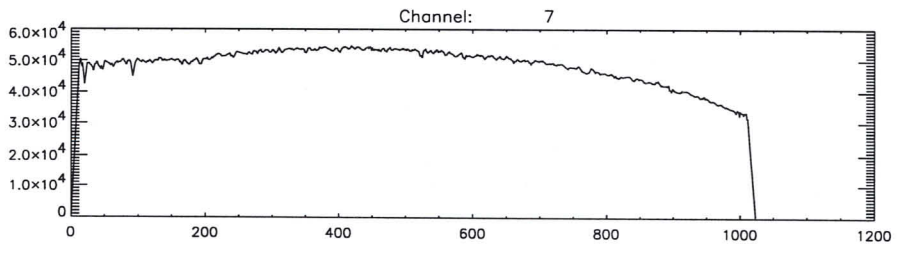

Channel: 6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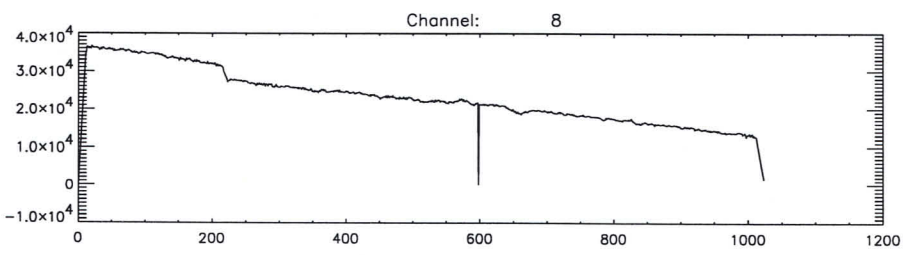
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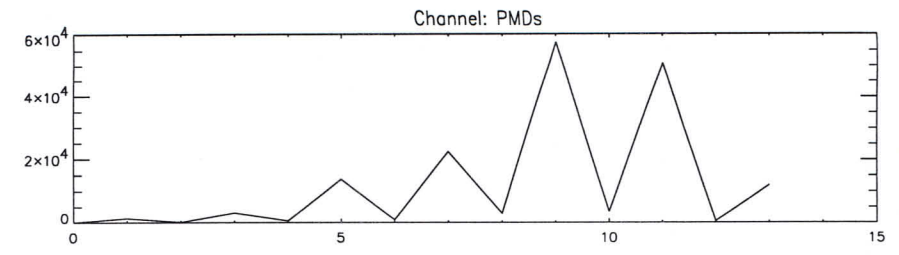
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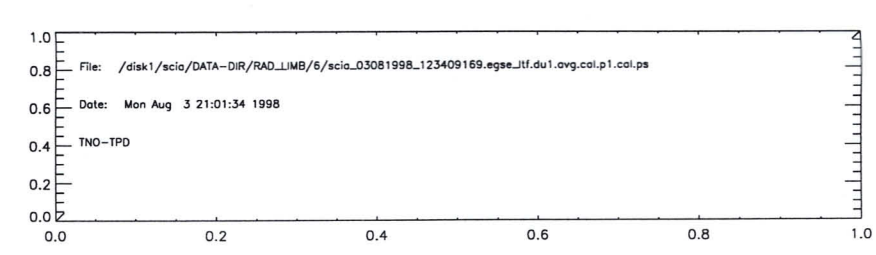
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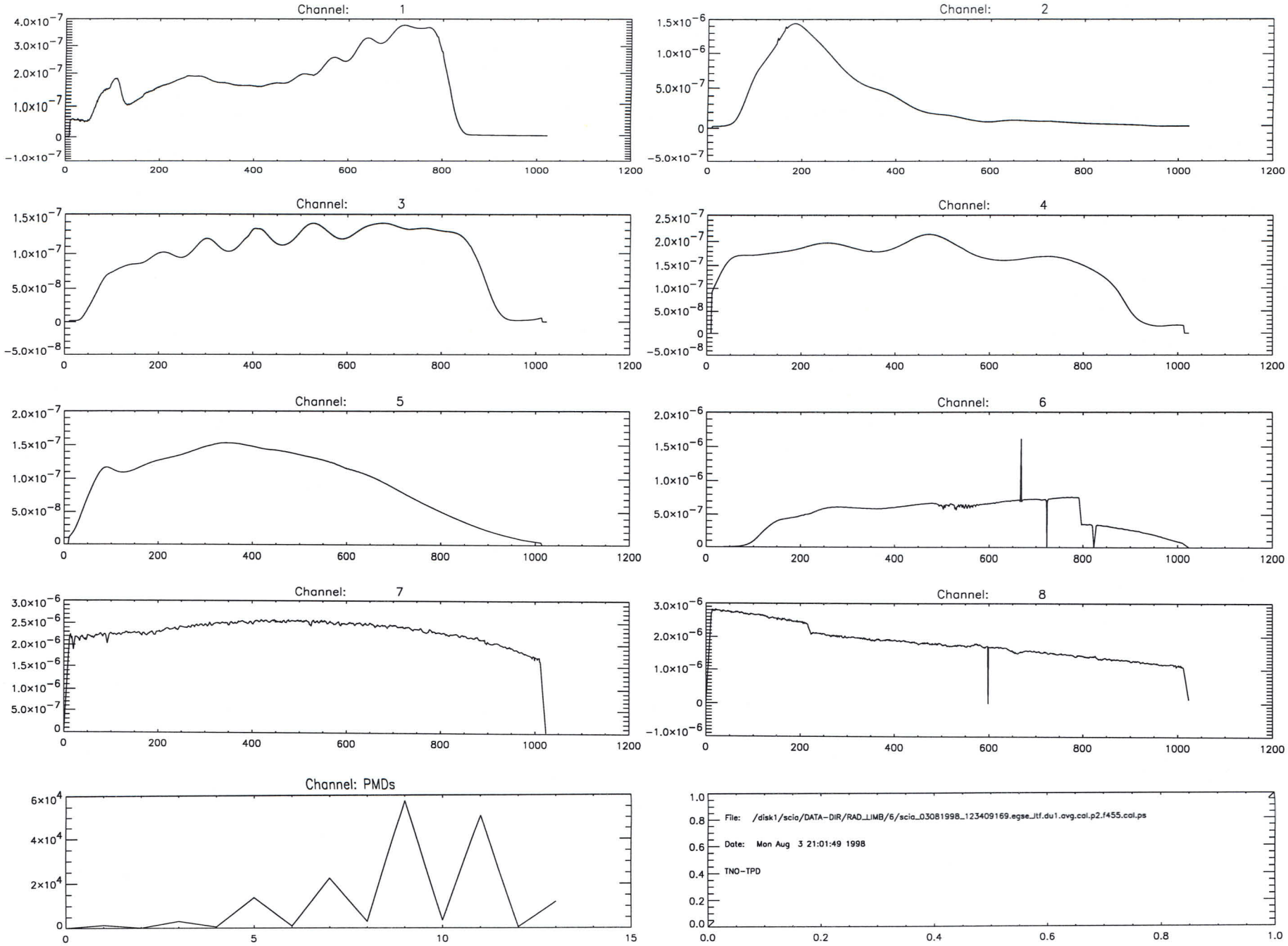
Date: Mon Aug 3 21:01:34 1998
TNO-TPD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Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
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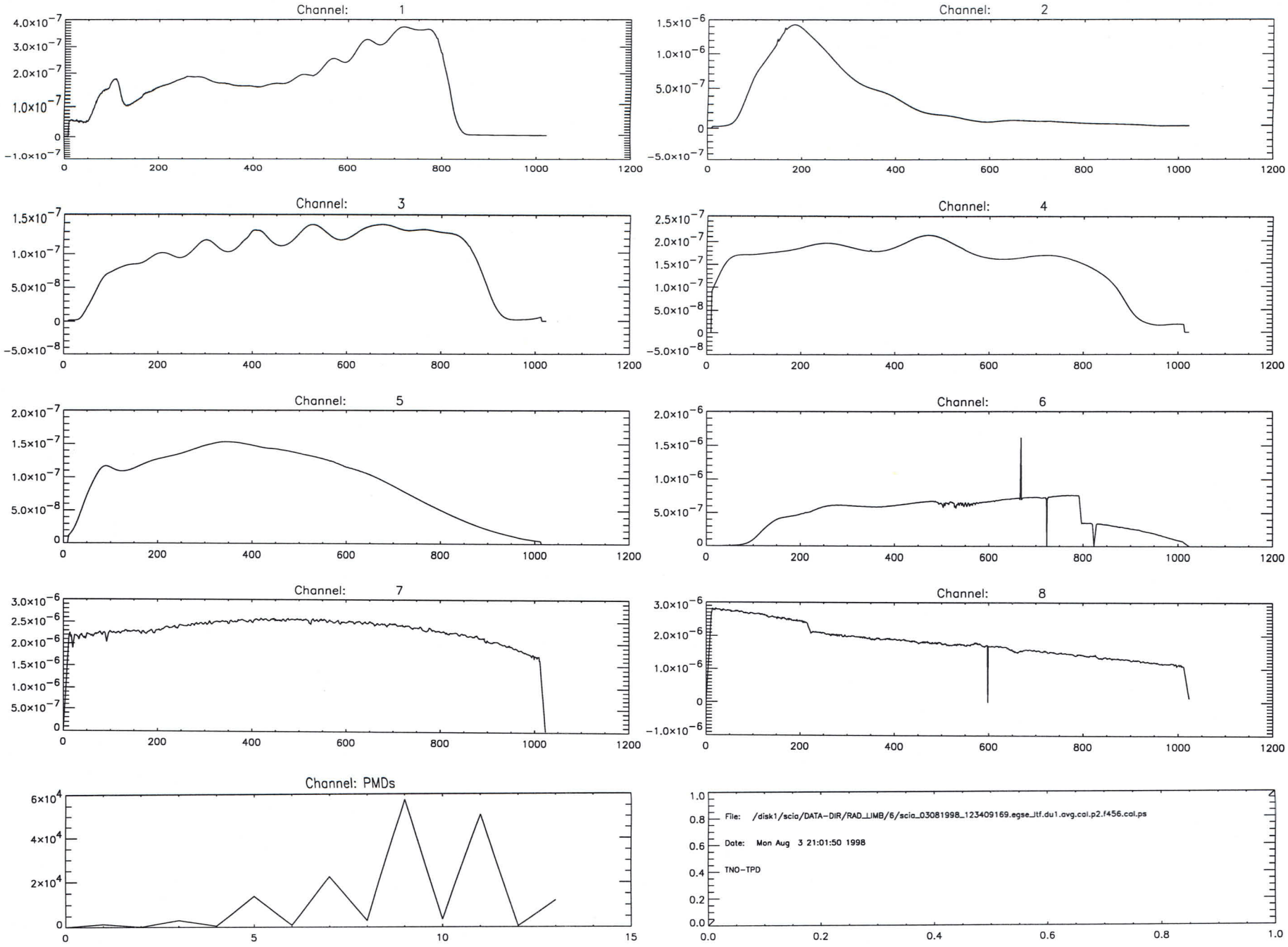
Date: Mon Aug 3 21:01:49 1998
TNO-TPD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Channel: 8
Channel: PMDs
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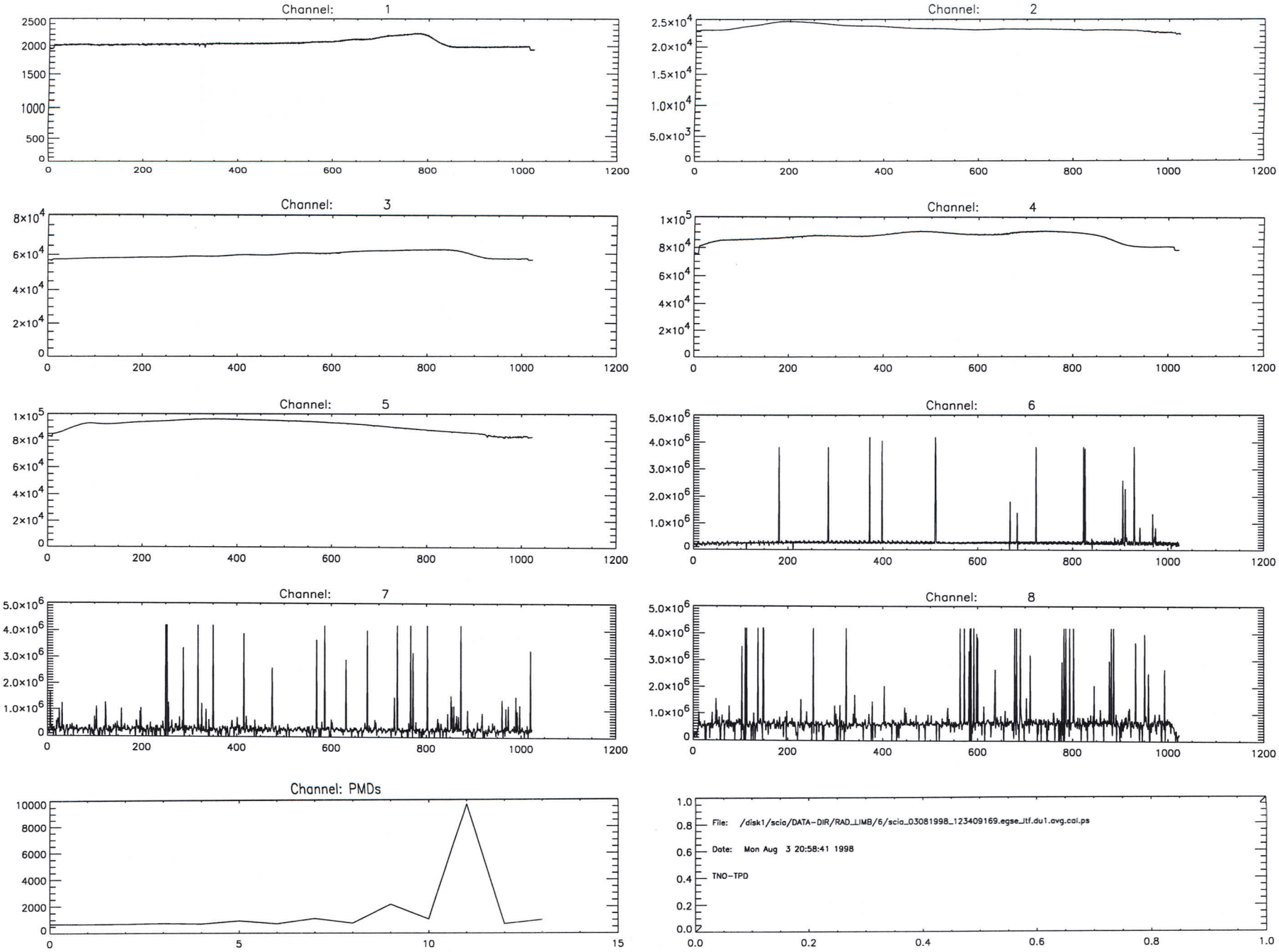
Date: Mon Aug 3 21:01:50 1998
TNO-TPD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Channel: 4
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Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
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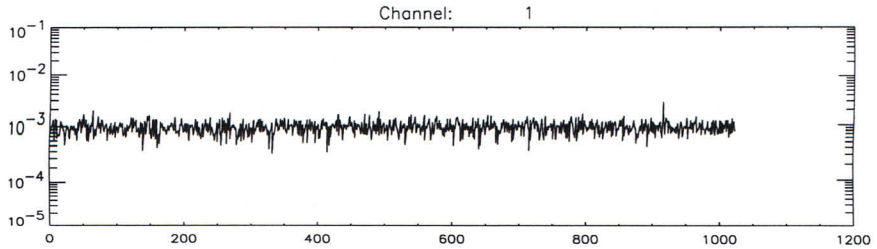
Date: Mon Aug 3 20:58:41 1998
TNO-TPD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10^{-4}
10^{-5}
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600
800
1000
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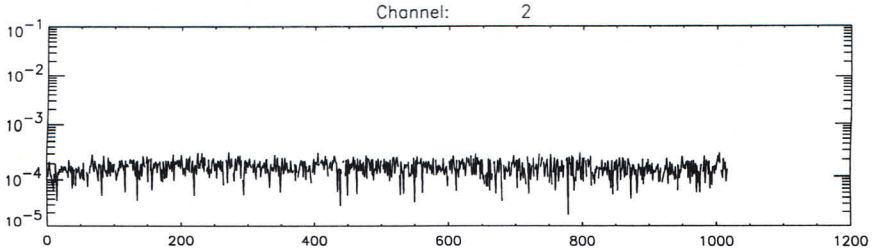
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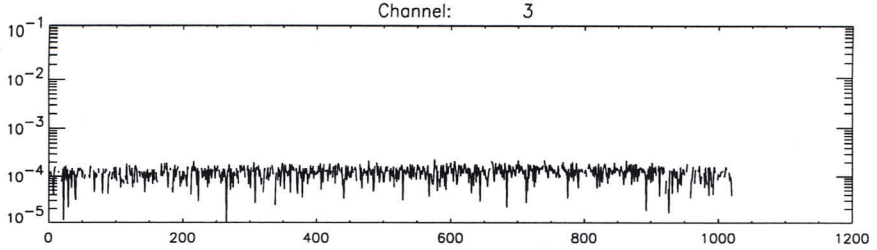
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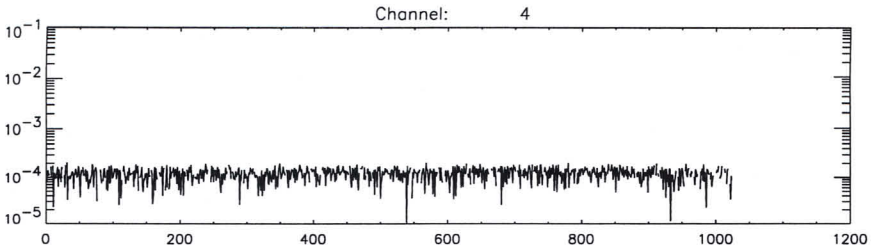
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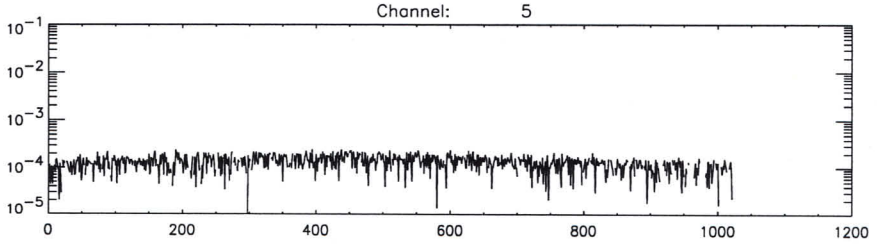
Channel: 5
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10^{-2}
10^{-3}
10^{-4}
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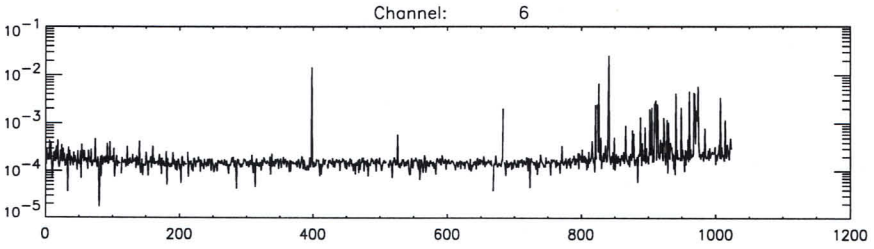
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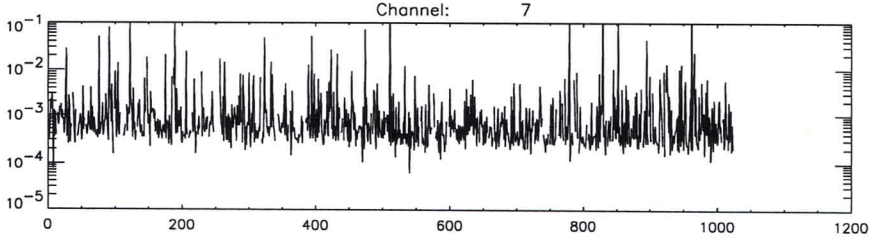
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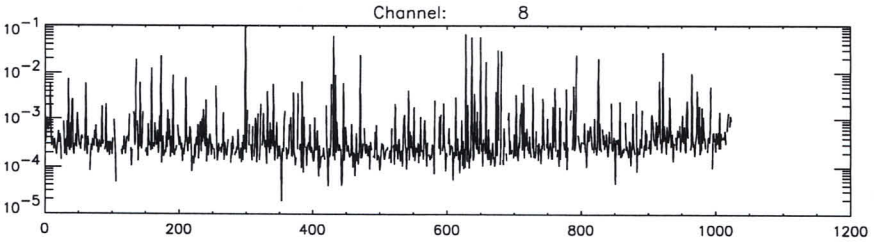
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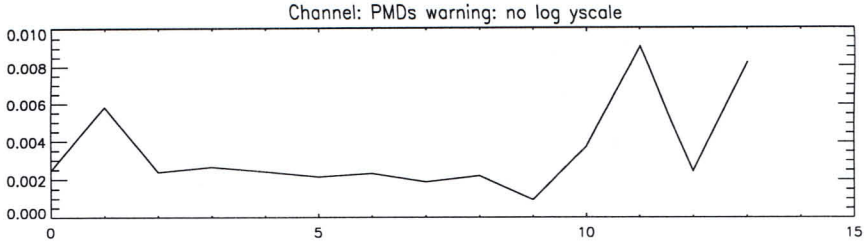
Channel: PMDs warning: no log yscale
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0.002
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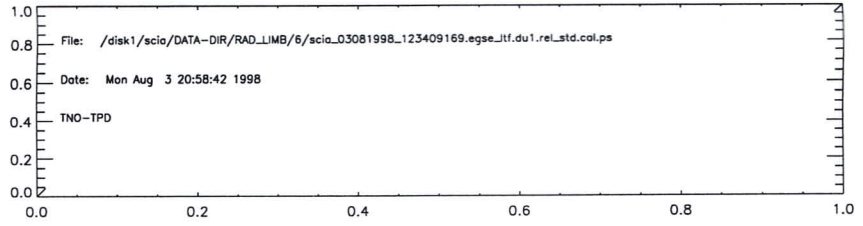
10
15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Date: Mon Aug 3 20:58:42 1998
TNO-TPD
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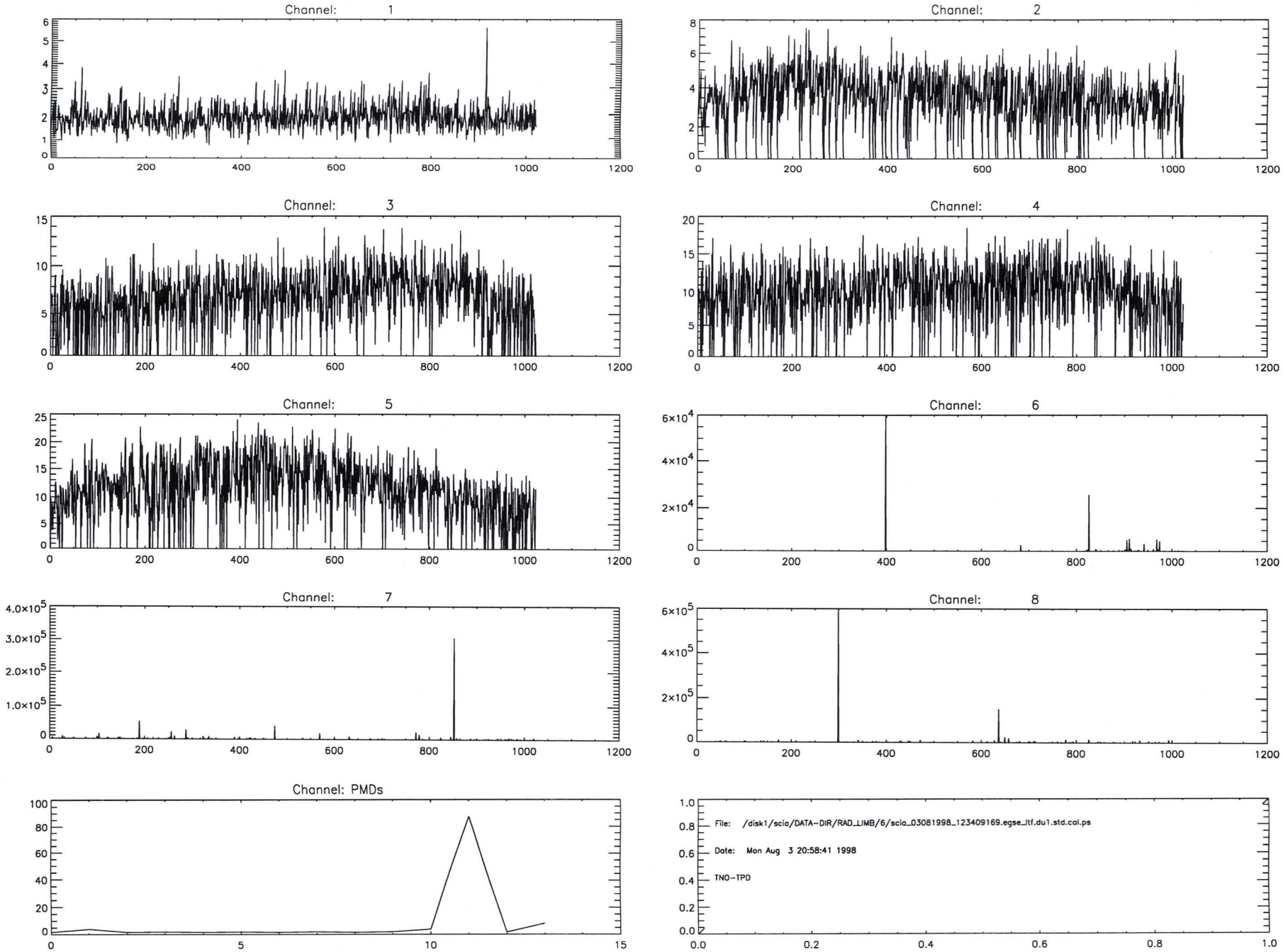
0.2
0.4
0.6
0.8
1.0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Channel: 2
Channel: 3
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Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
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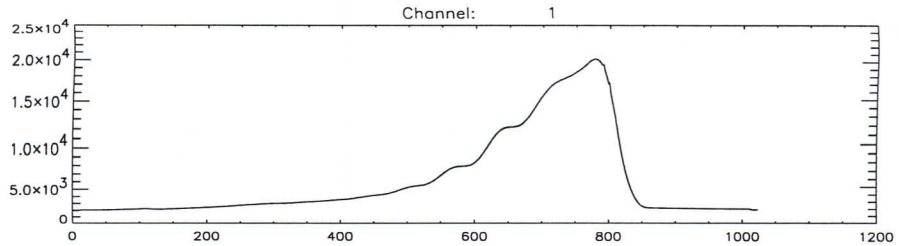
Date: Mon Aug 3 20:58:41 1998
TNO-TPD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1.0x10^4
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1000
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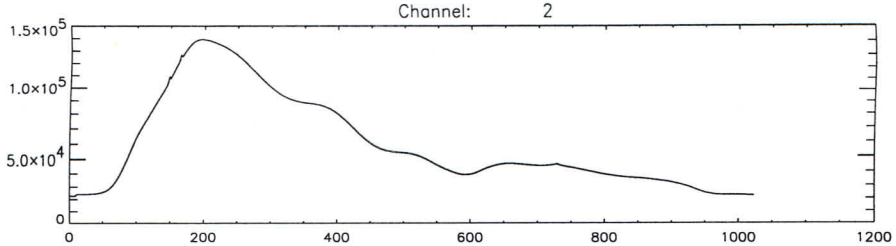
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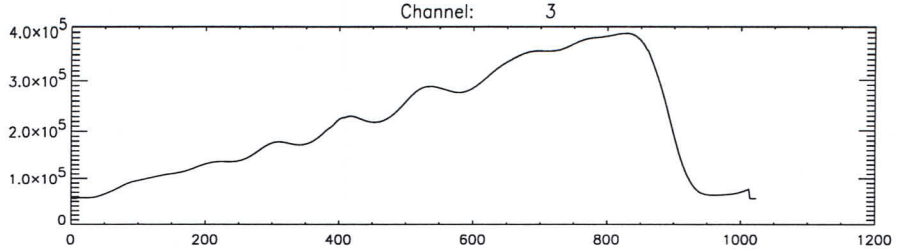
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1000
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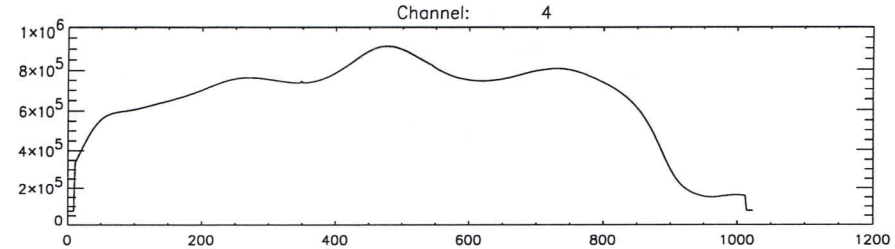
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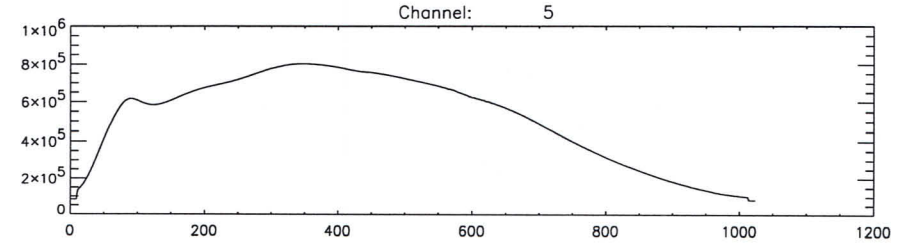
Channel: 5
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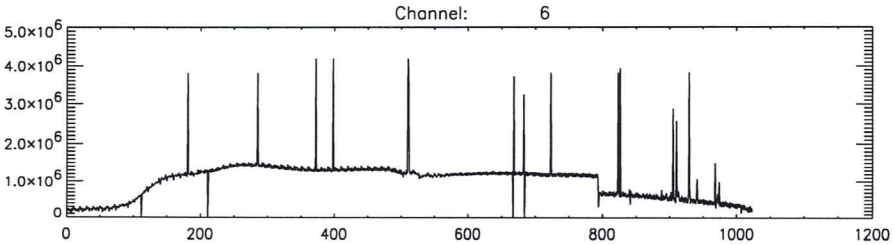
800
1000
1200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1000
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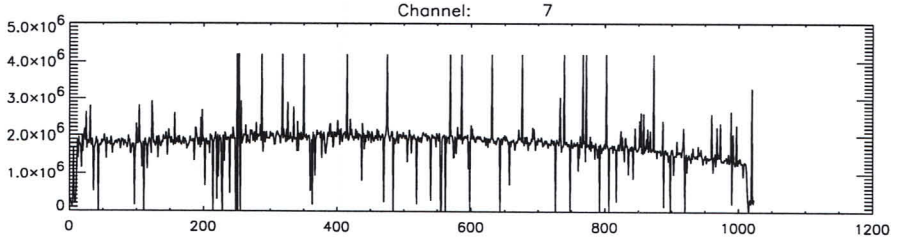
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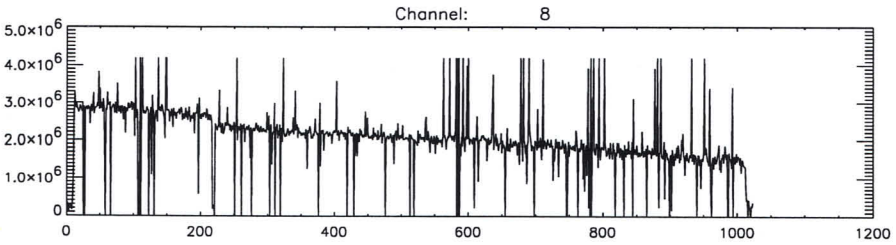
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1000
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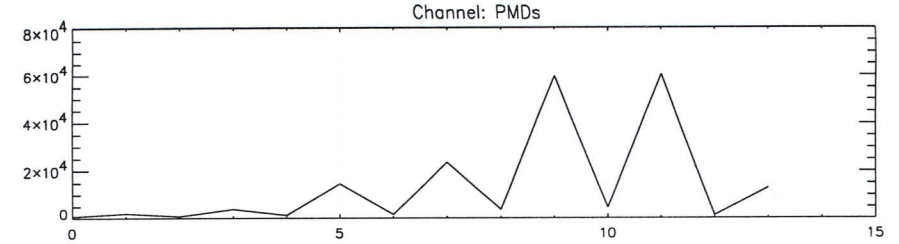
Channel: PMDs
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2x10^4
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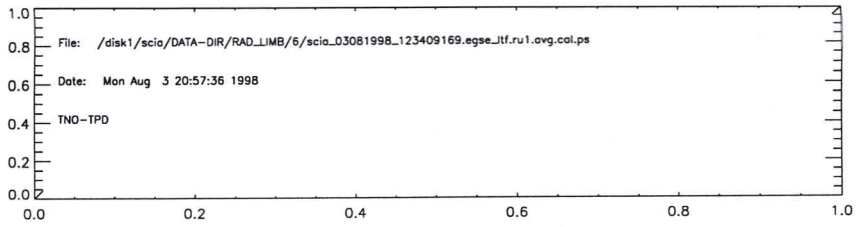
0
5
10
15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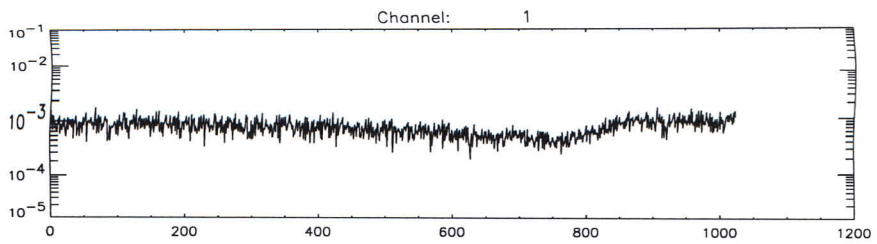
File: /disk1/scia/DATA-DIR/RAD_LIMB/6/scia_03081998_123409169.egse_ltf.ru1.avg.cal.ps
Date: Mon Aug 3 20:57:36 1998
TNO-TPD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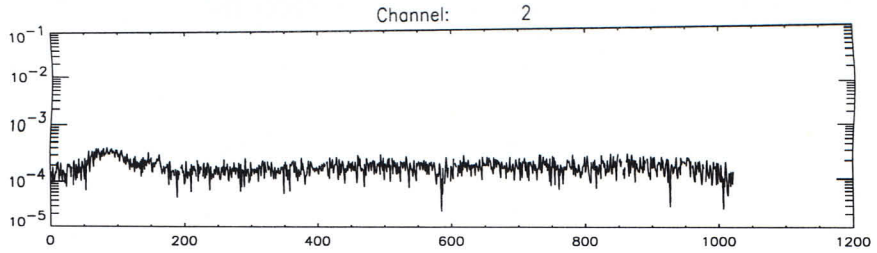
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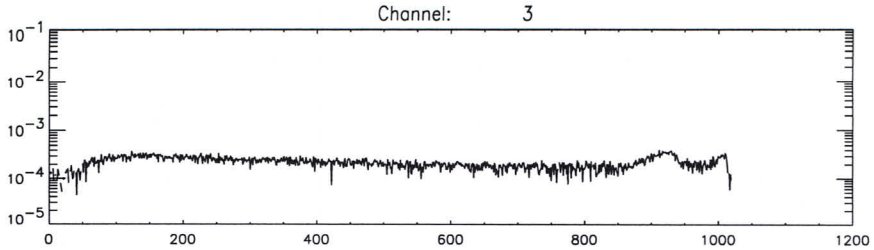
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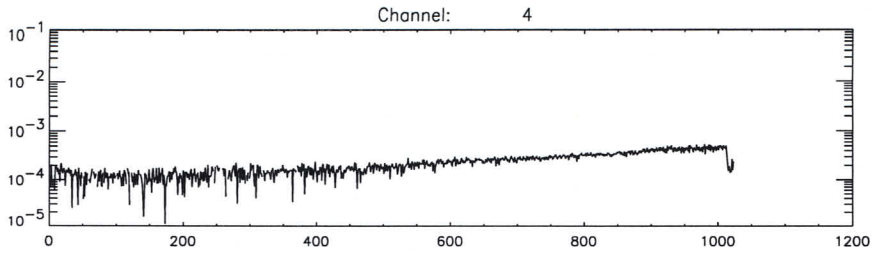
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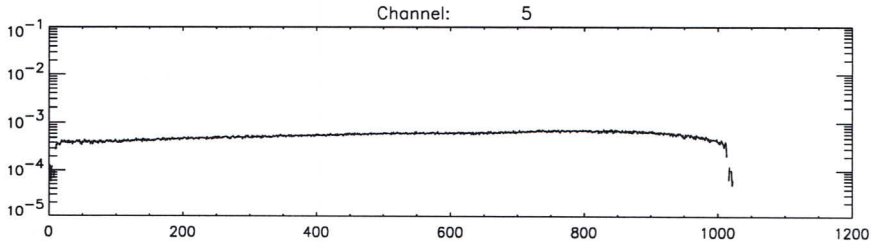
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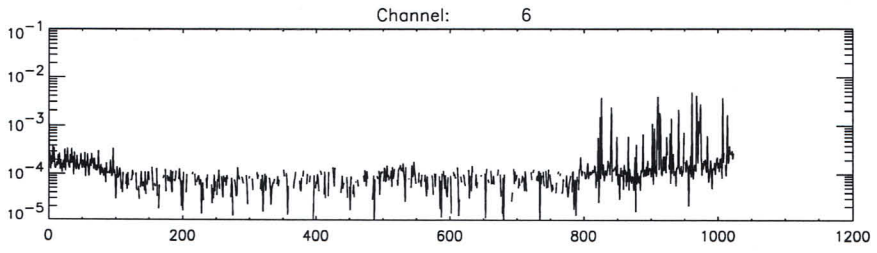
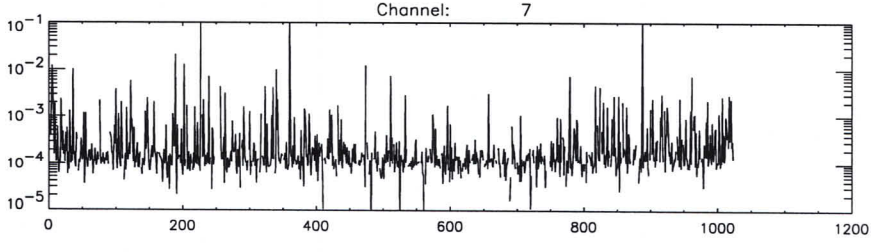

Channel: 6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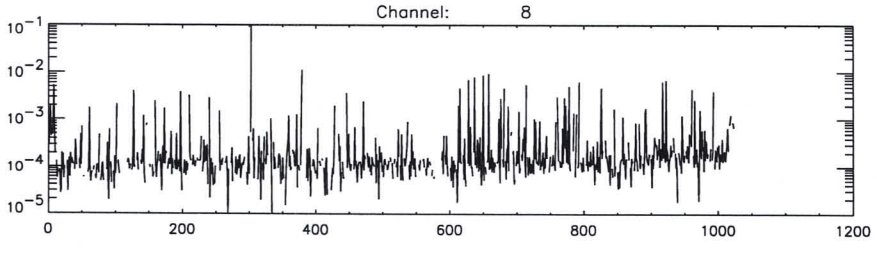
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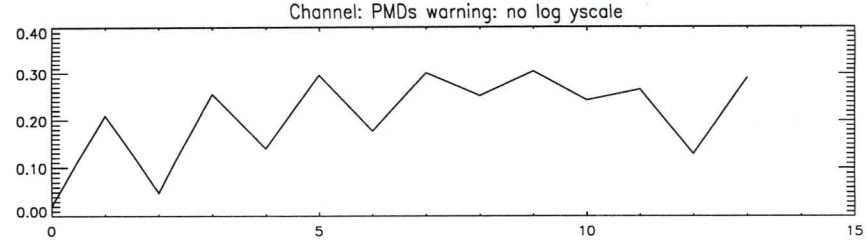
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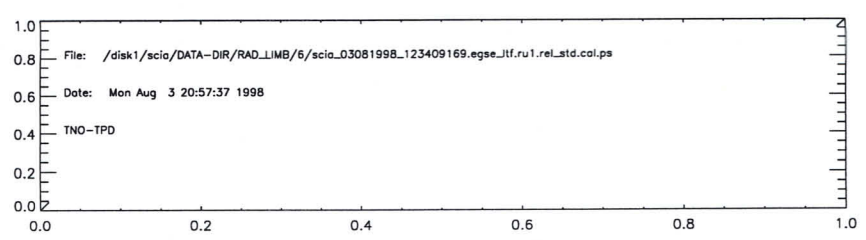
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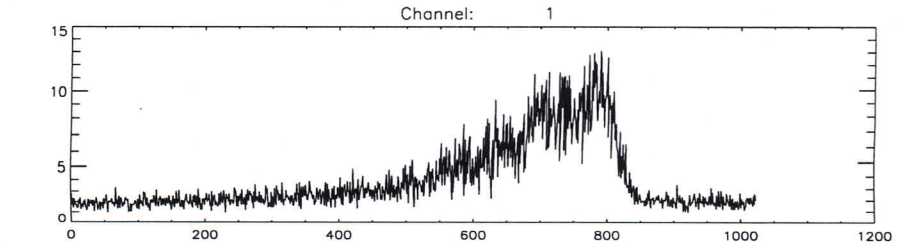
Date: Mon Aug 3 20:57:37 1998
TNO-TPD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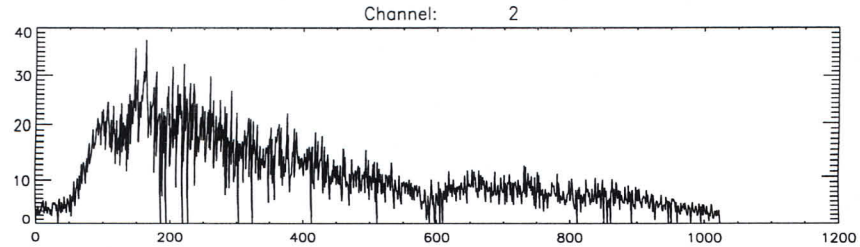
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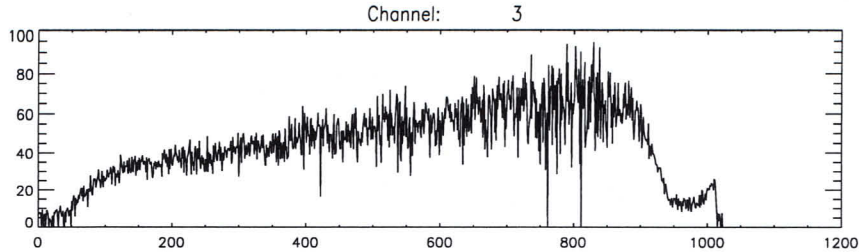
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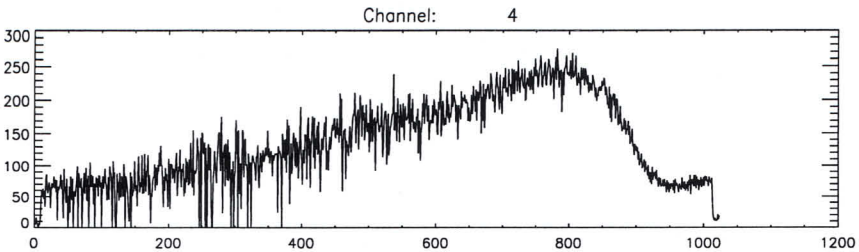
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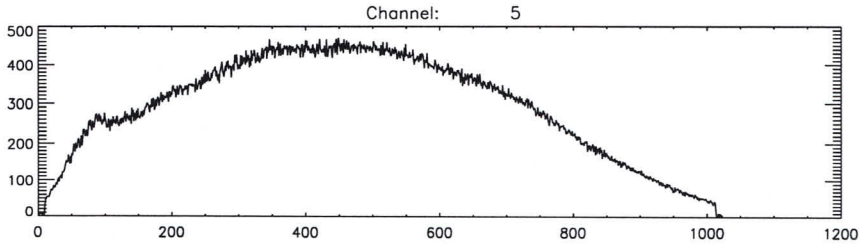
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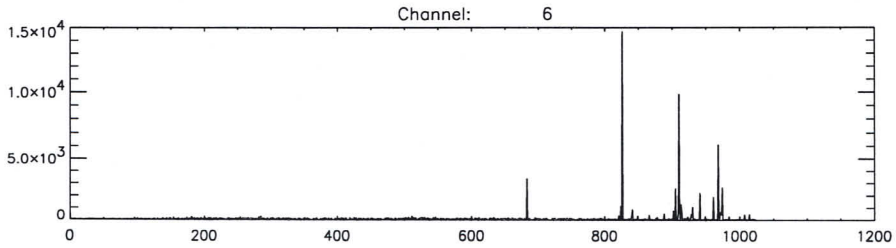
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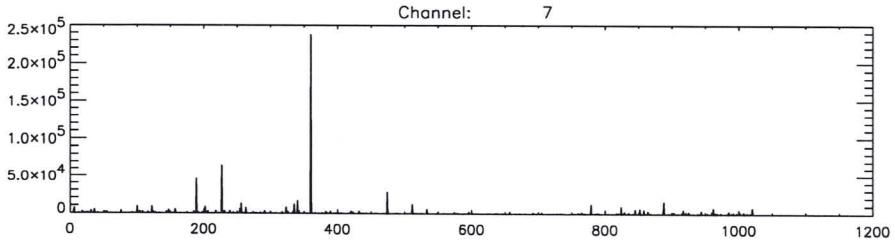
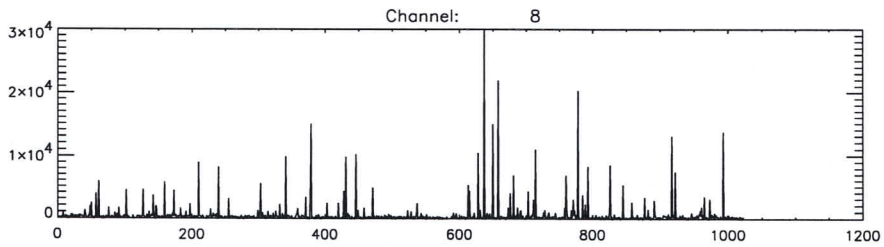
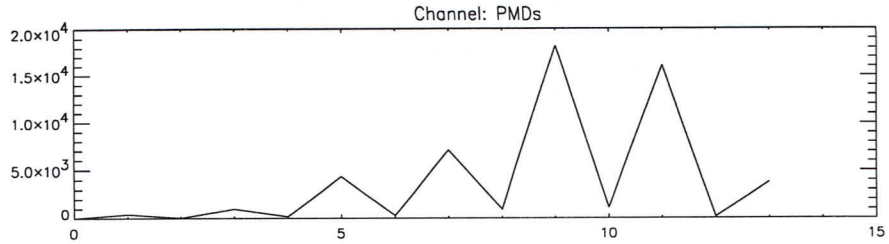
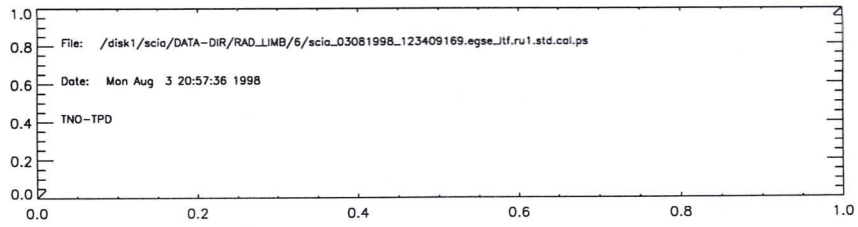

Channel: 7


Channel: 8


Channel: PMDs


File: /disk1/scia/DATA-DIR/RAD_LIMB/6/scia_03081998_123409169.egse_jtf.ru1.std.col.ps
Date: Mon Aug 3 20:57:36 1998
TNO-TPD

```
Version:  0.1
Input files:

/disk1/scia/DATA-DIR/RAD_LIMB/6/scia_03081998_123409169.egse_ltf.du1.avg.cal
 and

/disk1/scia/DATA-DIR/RAD_LIMB/6/scia_03081998_123409169.egse_ltf.ru1.avg.cal
Action:
Radiance calibration: No correction bsdf, transmission and e_cal
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/latest/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/latest/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/latest/stray.da
Processing time: Mon Aug  3 21:01:33 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_LIMB/6/scia_03081998_123409169.egse_ltf.du1.avg.cal.p
Ambient files:
Ambient Correction file versions ac_ucp = # VERSION 0.0
ac_ucs = #VERSION 0.0
ala4lp = #VERSION 0.0
ala4ls = #VERSION 0.0
a[illegible]4lx = #VERSION 0.0
a[illegible]mlp = #VERSION 0.0
alamls = #VERSION 0.0
alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
alaulp = #VERSION 0.0
alauls = #VERSION 0.0
anapnp = #VERSION 0.0
anapnx = #VERSION 0.0
anaunp = #VERSION 0.0 ASAP data
anauns = #VERSION 0.0 ASAP data
bsdf = #Date: 15/06/98 NOTE: This is preliminary data! The final keydata must
optec_window = #VERSION 0.0
reflectance = #VERSION 0.0
```

Version: 0.1
Input files:

/disk1/scia/DATA-DIR/RAD_LIMB/6/scia_03081998_123409169.egse_ltf.du1.avg.cal
 and

/disk1/scia/DATA-DIR/RAD_LIMB/6/scia_03081998_123409169.egse_ltf.ru1.avg.cal
Action:
Radiance calibration + divided by calibrated irradiance (f455) + divded by bsd
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/latest/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/latest/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/latest/stray.da
Processing time: Mon Aug 3 21:01:49 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_LIMB/6/scia_03081998_123409169.egse_ltf.du1.avg.cal.p
Ambient files:
Ambient Correction file versions ac_ucp = # VERSION 0.0
ac_ucs = #VERSION 0.0
ala4lp = #VERSION 0.0
ala4ls = #VERSION 0.0
a[illegible]4lx = #VERSION 0.0
a[illegible]mlp = #VERSION 0.0
alamls = #VERSION 0.0
alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
alaulp = #VERSION 0.0
alauls = #VERSION 0.0
anapnp = #VERSION 0.0
anapnx = #VERSION 0.0
anaunp = #VERSION 0.0 ASAP data
anauns = #VERSION 0.0 ASAP data
bsdf = #Date: 15/06/98 NOTE: This is preliminary data! The final keydata must
optec_window = #VERSION 0.0
reflectance = #VERSION 0.0

Version: 0.1
Input files:

/disk1/scia/DATA-DIR/RAD_LIMB/6/scia_03081998_123409169.egse_ltf.du1.avg.cal
 and

/disk1/scia/DATA-DIR/RAD_LIMB/6/scia_03081998_123409169.egse_ltf.ru1.avg.cal
Action:
Radiance calibration + divided by calibrated irradiance (f456)+ divded by bsdf
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/latest/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/latest/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/latest/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/latest/stray.da
Processing time: Mon Aug 3 21:01:50 1998
Output file name:
/disk1/scia/DATA-DIR/RAD_LIMB/6/scia_03081998_123409169.egse_ltf.du1.avg.cal.p
Ambient files:
Ambient Correction file versions ac_ucp = # VERSION 0.0
ac_ucs = #VERSION 0.0
ala4lp = #VERSION 0.0
ala4ls = #VERSION 0.0
a[illegible]4lx = #VERSION 0.0
a[illegible]mlp = #VERSION 0.0
alamls = #VERSION 0.0
alaplp = #VERSION 0.0
alapls = #VERSION 0.0
alaplx = #VERSION 0.0
alaslp = #VERSION 0.0
alasls = #VERSION 0.0
alaslx = #VERSION 0.0
alaulp = #VERSION 0.0
alauls = #VERSION 0.0
anapnp = #VERSION 0.0
anapnx = #VERSION 0.0
anaunp = #VERSION 0.0 ASAP data
anauns = #VERSION 0.0 ASAP data
bsdf = #Date: 15/06/98 NOTE: This is preliminary data! The final keydata must
optec_window = #VERSION 0.0
reflectance = #VERSION 0.0

```
#! /bin/sh
mv 215y1229.doc f0
mv 215y1300.xls f1
mv WS_FTP.LOG f2
mv dapbchklog f3
mv dapbseqlog f4
mv egse.inf f5
mv gemsmpara.dat f6
mv hk_ccb.dat f7
mv scia_03081998_123409169.dat f8
mv scia_03081998_123409169.egse_ltf f9
mv scia_03081998_123409169.egse_ltf.du1.avg.cal f10
mv scia_03081998_123409169.egse_ltf.du1.avg.cal.p1.cal f11
mv scia_03081998_123409169.egse_ltf.du1.avg.cal.p1.cal.log f12
mv scia_03081998_123409169.egse_ltf.du1.avg.cal.p1.cal.ps f13
mv scia_03081998_123409169.egse_ltf.du1.avg.cal.p1.cal.ps.log f14
mv scia_03081998_123409169.egse_ltf.du1.avg.cal.p2.f455.cal f15
mv scia_03081998_123409169.egse_ltf.du1.avg.cal.p2.f455.cal.keydata f16
mv scia_03081998_123409169.egse_ltf.du1.avg.cal.p2.f455.cal.log f17
mv scia_03081998_123409169.egse_ltf.du1.avg.cal.p2.f455.cal.ps f18
mv scia_03081998_123409169.egse_ltf.du1.avg.cal.p2.f455.cal.ps.log f19
mv scia_03081998_123409169.egse_ltf.du1.avg.cal.p2.f456.cal f20
mv scia_03081998_123409169.egse_ltf.du1.avg.cal.p2.f456.cal.keydata f21
mv scia_03081998_123409169.egse_ltf.du1.avg.cal.p2.f456.cal.log f22
mv scia_03081998_123409169.egse_ltf.du1.avg.cal.p2.f456.cal.ps f23
mv scia_03081998_123409169.egse_ltf.du1.avg.cal.p2.f456.cal.ps.log f24
mv scia_03081998_123409169.egse_ltf.du1.avg.cal.ps f25
mv scia_03081998_123409169.egse_ltf.du1.log f26
mv scia_03081998_123409169.egse_ltf.du1.rel_std.cal f27
mv scia_03081998_123409169.egse_ltf.du1.rel_std.cal.ps f28
mv scia_03081998_123409169.egse_ltf.du1.std.cal f29
mv scia_03081998_123409169.egse_ltf.du1.std.cal.ps f30
mv scia_03081998_123409169.egse_ltf.ru1.avg.cal f31
mv scia_03081998_123409169.egse_ltf.ru1.avg.cal.ps f32
mv scia_03081998_123409169.egse_ltf.ru1.log f33
mv scia_03081998_123409169.egse_ltf.ru1.rel_std.cal f34
mv scia_03081998_123409169.egse_ltf.ru1.rel_std.cal.ps f35
mv scia_03081998_123409169.egse_ltf.ru1.std.cal f36
mv scia_03081998_123409169.egse_ltf.ru1.std.cal.ps f37
```

```
#! /bin/sh
mv f0 215y1229.doc
mv f1 215y1300.xls
mv f2 WS_FTP.LOG
mv f3 dapbchklog
mv f4 dapbseqlog
mv f5 egse.inf
mv f6 gemsmpara.dat
mv f7 hk_ccb.dat
mv f8 scia_03081998_123409169.dat
mv f9 scia_03081998_123409169.egse_ltf
mv f10 scia_03081998_123409169.egse_ltf.du1.avg.cal
mv f11 scia_03081998_123409169.egse_ltf.du1.avg.cal.p1.cal
mv f12 scia_03081998_123409169.egse_ltf.du1.avg.cal.p1.cal.log
mv f13 scia_03081998_123409169.egse_ltf.du1.avg.cal.p1.cal.ps
mv f14 scia_03081998_123409169.egse_ltf.du1.avg.cal.p1.cal.ps.log
mv f15 scia_03081998_123409169.egse_ltf.du1.avg.cal.p2.f455.cal
mv f16 scia_03081998_123409169.egse_ltf.du1.avg.cal.p2.f455.cal.keydata
mv f17 scia_03081998_123409169.egse_ltf.du1.avg.cal.p2.f455.cal.log
mv f18 scia_03081998_123409169.egse_ltf.du1.avg.cal.p2.f455.cal.ps
mv f19 scia_03081998_123409169.egse_ltf.du1.avg.cal.p2.f455.cal.ps.log
mv f20 scia_03081998_123409169.egse_ltf.du1.avg.cal.p2.f456.cal
r   f21 scia_03081998_123409169.egse_ltf.du1.avg.cal.p2.f456.cal.keydata
m.  f22 scia_03081998_123409169.egse_ltf.du1.avg.cal.p2.f456.cal.log
mv f23 scia_03081998_123409169.egse_ltf.du1.avg.cal.p2.f456.cal.ps
mv f24 scia_03081998_123409169.egse_ltf.du1.avg.cal.p2.f456.cal.ps.log
mv f25 scia_03081998_123409169.egse_ltf.du1.avg.cal.ps
mv f26 scia_03081998_123409169.egse_ltf.du1.log
mv f27 scia_03081998_123409169.egse_ltf.du1.rel_std.cal
mv f28 scia_03081998_123409169.egse_ltf.du1.rel_std.cal.ps
mv f29 scia_03081998_123409169.egse_ltf.du1.std.cal
mv f30 scia_03081998_123409169.egse_ltf.du1.std.cal.ps
mv f31 scia_03081998_123409169.egse_ltf.ru1.avg.cal
mv f32 scia_03081998_123409169.egse_ltf.ru1.avg.cal.ps
mv f33 scia_03081998_123409169.egse_ltf.ru1.log
mv f34 scia_03081998_123409169.egse_ltf.ru1.rel_std.cal
mv f35 scia_03081998_123409169.egse_ltf.ru1.rel_std.cal.ps
mv f36 scia_03081998_123409169.egse_ltf.ru1.std.cal
mv f37 scia_03081998_123409169.egse_ltf.ru1.std.cal.ps
```