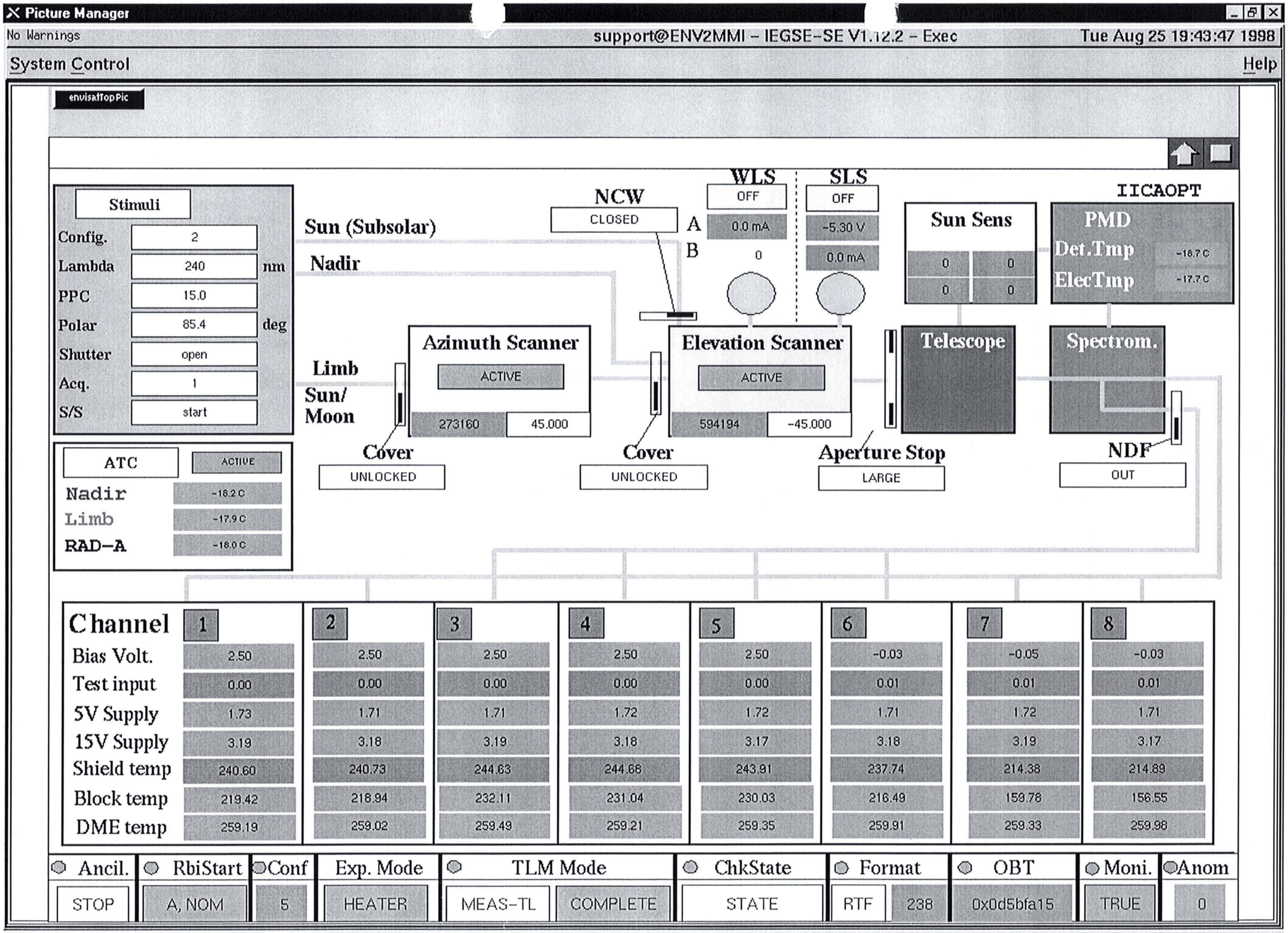
LOG SHEET SCHIAMACHY CALIBRATION

Date/Time	Description of action	Measurement directory
25-8	Test /Run eta-IR	
21:44	no new (debug) software	
	one shielding repaired	
	crash after half hour	


Picture Manager
No Warnings
support@ENV2MMI – IEGSE-SE V1.12.2 – Exec
Tue Aug 25 19:43:47 1998
System Control
Help
envisatTopPic
Stimuli
Config. 2
Lambda 240 nm
PPC 15.0
Polar 85.4 deg
Shutter open
Acq. 1
S/S start
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
-5.30 V
0.0 mA
Sun Sens
0 0
0 0
IICAOPT
PMD
Det.Tmp -16.7 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 240.60 240.73 244.63 244.66 243.91 237.74 214.38 214.89
Block temp 219.42 218.94 232.11 231.04 230.03 216.49 159.78 156.55
DME temp 259.19 259.02 259.49 259.21 259.35 259.91 259.33 259.98
Ancil. STOP
RbiStart A, NOM
Conf 5
Exp. Mode HEATER
TLM Mode MEAS-TL COMPLETE
ChkState STATE
Format RTF 238
OBT 0x0d5bfa15
Moni. TRUE
Anom 0

Formal Run of Measurement

(Measurement ID) ETA_IR

Request for Actual Status
Request for Modification
Request for Run X

(cross out entries that are **not** requested.)
(fill in only entries to be modified)
(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	13									
Repetitions	5									

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	16	4						
2a	16	4						
3	0.5	8						
4	0.25	16						
5	0.25	16						
6	0.03125	64						
7	0.0625	64						
8	0.26	16						
State ID								

ETA-IR at high temperatures

intended date 18-8-1998

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	2	15	171.6	close	1	240	240	0	4	047	12
2.1	2	15	171.6	open	1	240	240	0	4	wsd#	20
2.2	2	15	85.4	open	1	240	240	0	4	wpd#	20
3.1	2	5	171.6	open	1	240	240	0	4	wsb#	20
3.2	2	5	85.4	open	1	240	240	0	4	wpb#	20
4	2	5	85.4	close	1	240	240	0	4	042	8

Measurement Data Description

Test Purpose	UID 8
Remark	repeated msm
Data Directory	0237_18.59.45_ETA_IR

Signatures

	Date	Signature
Issued	25-8	[signature]
< Performed		

LOG SHEET SCHIAMACHY CALIBRATION

Date/Time	Description of action	Measurement directory
25-8	Repeat Xi - VisIR - III / UIDIS /	Xi-6
	using 7 ESD diffuser $^{10°}_{7}$ at position 7	
	using mono condensor at position mono	
	Expected signal only in DM 6 and PMD 5	
	test PET 64 64 64 64 64 0.5 2 2	
	coadd 1 1 1 1 1 64 32 32	
26-8		
0.00	Test run J, 20 min. successfully, to determine PET	
1.00 MEST	Measurement started.	
00.02 ~~23:50~~ UT	OS PC screen uitgezet, NB: cleanroom 100 lichten nog aan, reflectant	
5:30 UTC	Omgebouwd naar ETA-IR via RVS wand solar panel chamber.	
	EINDE SHIFT → Xsi meting is gedownload naar onze unix machine, maar daar is	
	nog niets mee gedaan !!! Directory: Xsi-VisIR-III/5	
	/4 = testmeting	

Formal Run of Measurement

(Measurement ID) Xi – 6

Request for Actual Status ☒
Request for Modification ☒
Request for Run ☒

(cross out entries that are **not** requested.)
(fill in only entries to be modified)
(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	22									
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	64	1						
2a	64	1						
3	64	1						
4	64	1						
5	64	1						
6	1	64						
7	2	32						
8	2	32						
State ID								

Measure difference between mono lens + 1LSO diff and ULS Lens + 1 UV diff

Step 14.2 6

Stimuli Settings for Existing Blocks in Measurement

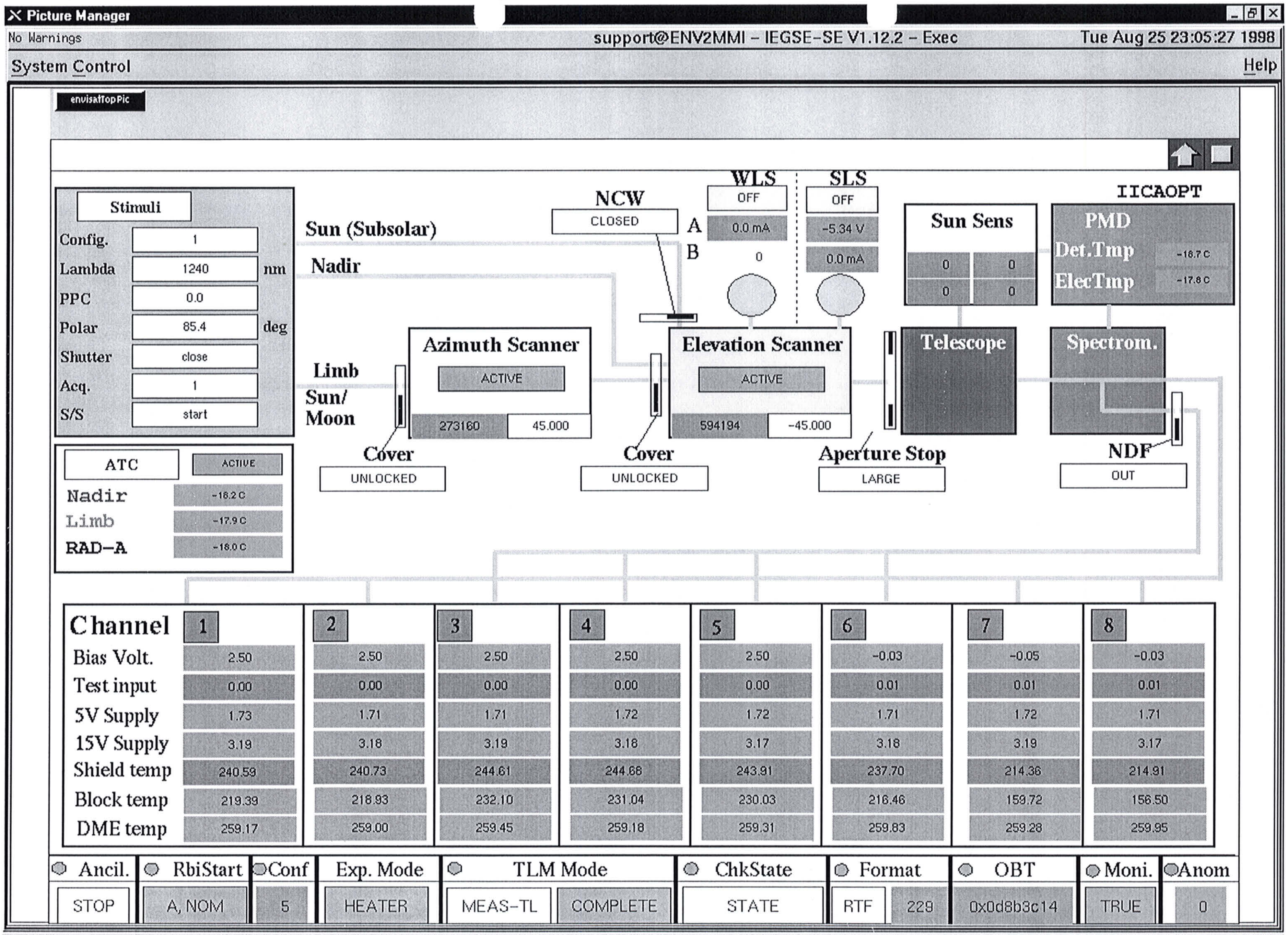
Block No	Stimuli Setup ID	PPC [deg]	Polarizer [deg]	Shutter open/close	Acquisition Time [s]	Lambda [nm] Start	Stop	Step	Repetition Factor	Message	OS Setup Time [s]
1	1	0	85,4	close	1	1240	1240	0	5	DU1	50
2	1	0	85,4	open	1	1240	1240	0	1	MPR	8
3	1	0	85,4	open	1	1242	1660	2	1	MPR	3
4	1	0	85,4	close	1	1660	1660	0	5	DU2	8

Measurement Data Description

Test Purpose	Repeatability
Remark	UID 15
Data Directory	0237_22_5703_XI_6

Signatures

	Date	Signature
Issued	25/8/98	[signature]
Performed	25/8/98	[signature]


Picture Manager
No Warnings
support@ENV2MMI – IEGSE-SE V1.12.2 – Exec
Tue Aug 25 23:05:27 1998
System Control
Help
envisatTopPic
Stimuli
Config. 1
Lambda 1240 nm
PPC 0.0
Polar 85.4 deg
Shutter close
Acq. 1
S/S start
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 -16.7 C
ElecTmp -17.8 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 240.59 240.73 244.61 244.68 243.91 237.70 214.36 214.91
Block temp 219.39 218.93 232.10 231.04 230.03 216.46 159.72 156.50
DME temp 259.17 259.00 259.45 259.18 259.31 259.83 259.28 259.95
Ancil. STOP
RbiStart A, NOM
Conf 5
Exp. Mode HEATER
TLM Mode MEAS-TL COMPLETE
ChkState STATE
Format RTF 229
OBT 0x0d8b3c14
Moni. TRUE
Anom 0

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Wandell Lynd 26-8-98	
	What's the name of the (main) data input files generated by the EGSE? `(*.dat)`	scia_25081998_230137541.dat scia-26081998_011304159.dat scia_26081998_032206433.dat	(A)
	Setup a three-window configuration on your SUN.		see course descr.
Cnstr directory	`cd ~/DATA-DIR/XSI-VisIr-III/ ; ls -l` highest number in directory?	4	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	5 Y / N	(C)
	directory name is:	`~/DATA-DIR/XSI-VisIR-III/<C>`	(DIR-NAME)
Copy data	See Analysis sheet: Transfer Data File	done 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_25081998-230137541.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_fastaverscia` (and select file <D> when asked)		Note: In window IDL

Check CAL files	Dark files: ls -l *du*.cal	du1 du2	In DATA-DIR Window
	size:	9	should be approx 150Kb
	Monochromator ouput: ls -l *mp<lambda>*.avg.cal (where lambda is a wavelength indicator)		
	size:	145.998 k	should be approx 150Kb
	lambda ranges from: to:	1240 to 1660	
	Note: all files should be present, if not: (a) Check file <D> using SOLAN and check whether dremark1 labels are present. (b) Check if enough disk space is available (Unix command df -k | more).		
Print postscript	Pick a *.mp<lambda>.avg.cal file. lpr -P<printer> *.avg.cal.ps		
	Contents dark file *du.avg.cal.ps should be approx. constant within channels:	Y / N	
	Contents of a file *mp<lambda>.avg.cal.ps should contain a peak signal in corresponding channel (cannot be seen in channels 7 and 8):	Y / N	
	Contents of *mp<lambda>.rel_std.cal.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	too many log-files.

Xsi processing

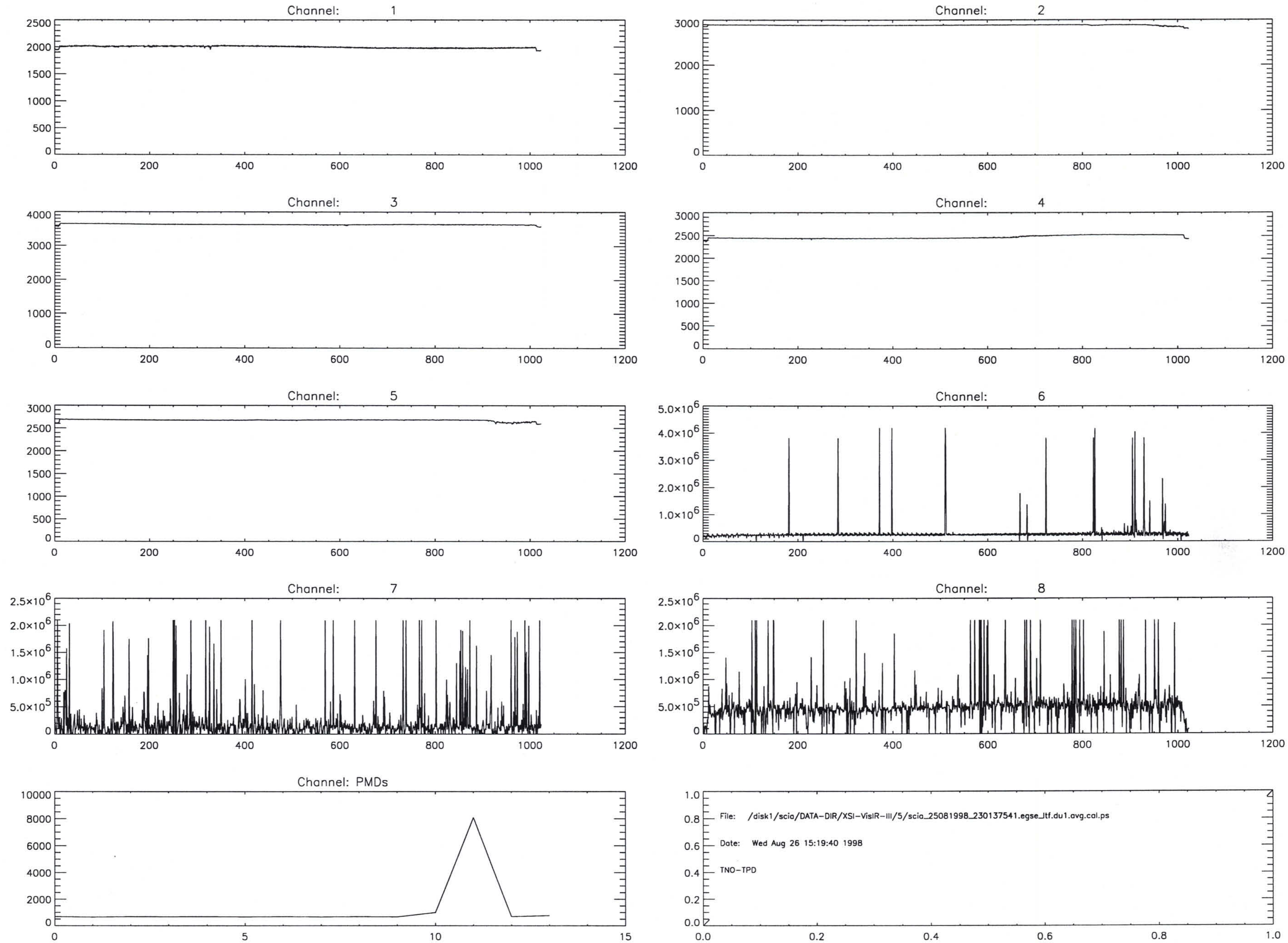
Control file	Construct `control-file` in dir. <DIR-NAME> where each line is of the form `<l1> <l2> <darkname>` (meaning that file `<darkname>` is to be used as dark measurement for monochromator outputs with wavelength `M` such that `<l1> <= M <= <l2>`). `lpr -P<printer> <DIR-NAME>/control-file` Add `control-file` to logbook, done	Y / N	
Run XSI	`idl do_xsi`		
Check XSI	`ls -l *.data` Size of file `<D>.du*.cal.data`	91363	In DATA-DIR window

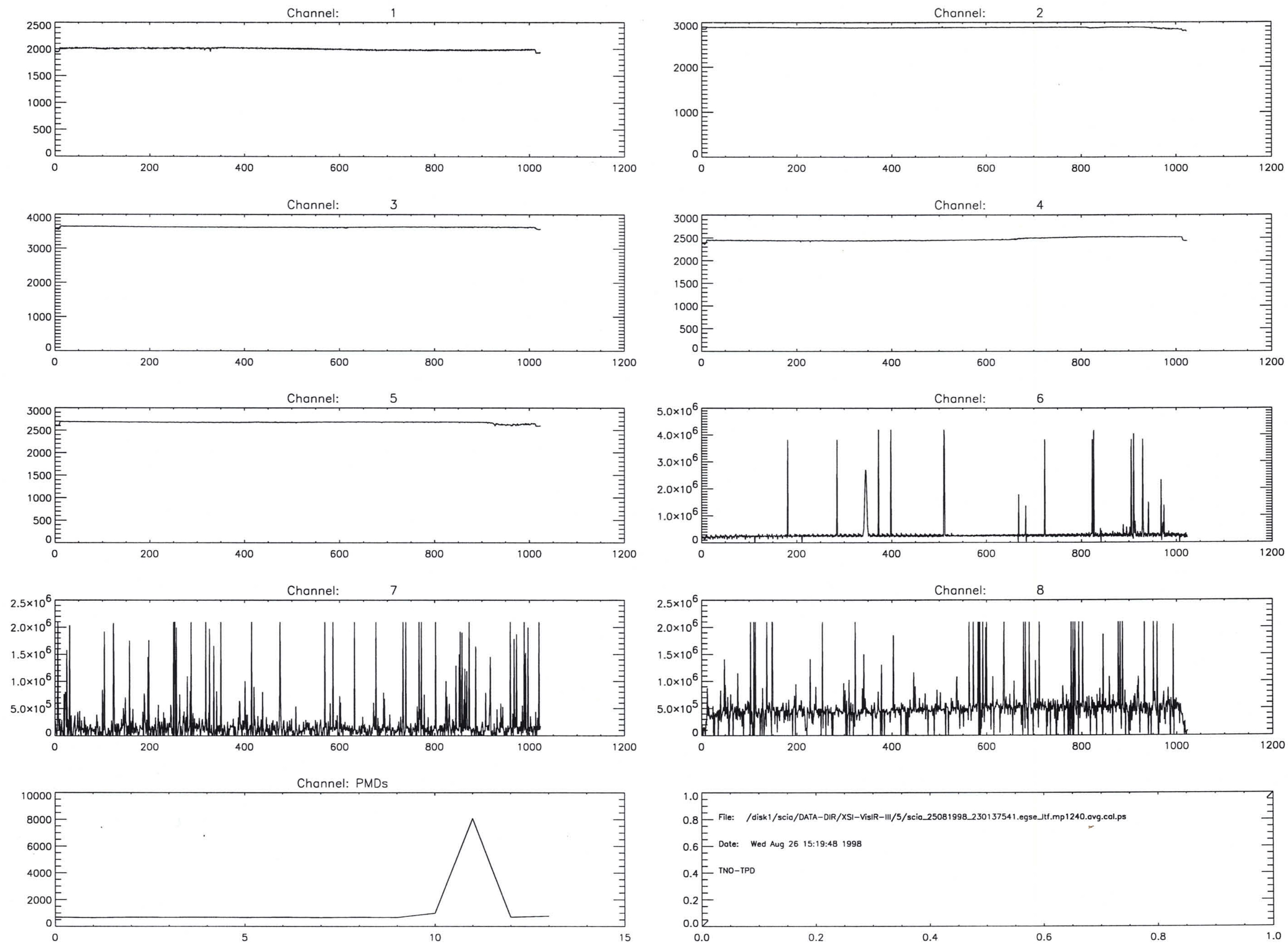
Check XSI visually	`idl do_xsi_processing`
	`lpr -P<printer> *.data.ps`
	Value of XSI resembles expected XSI (see [Predicted PFMcalibration results])?
	Add postscript images to logbook, done
		
		Y / N
		Y / N
			In IDL window
			In DATA-DIR window

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

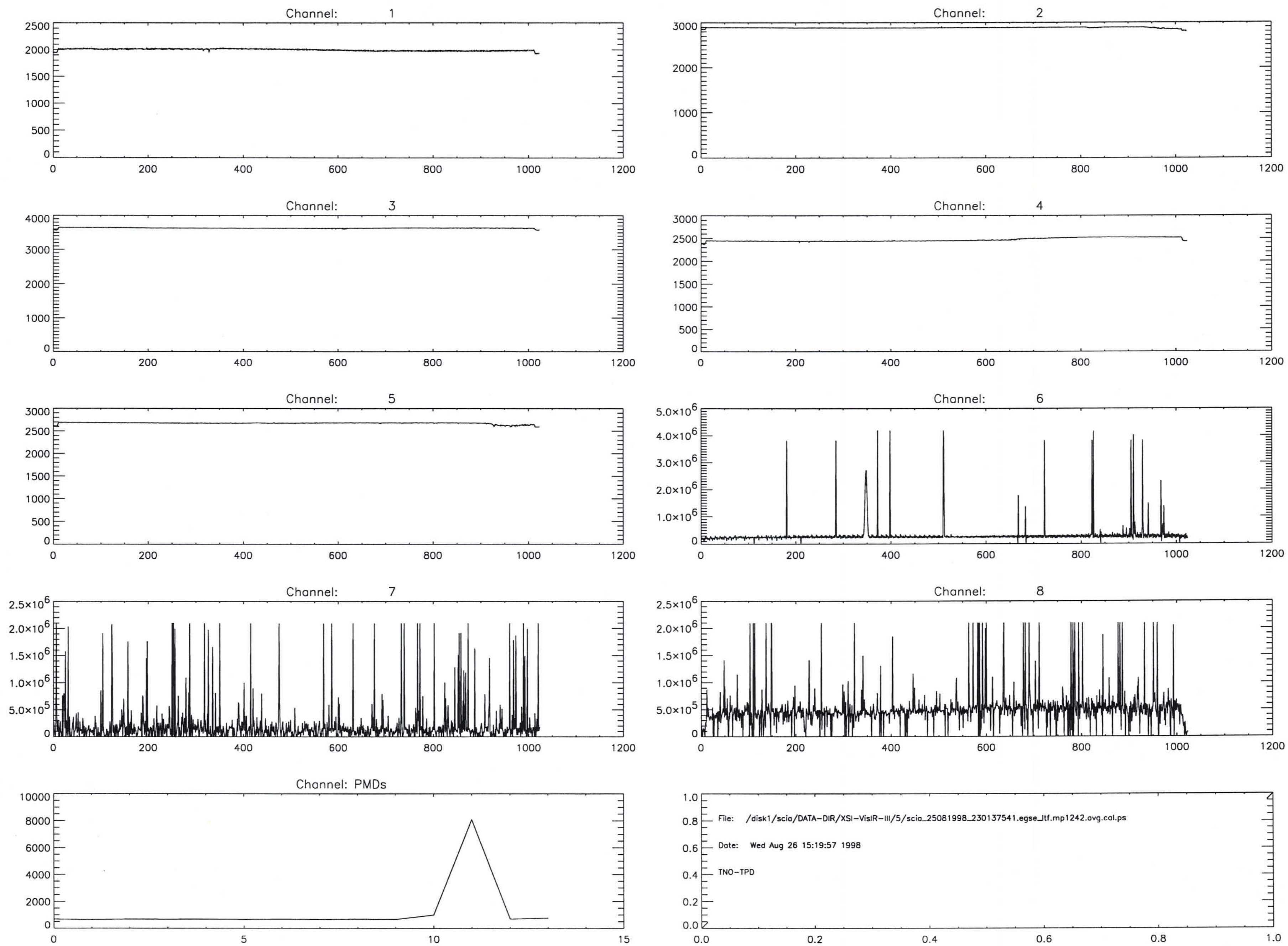
Back up	Create 3 sets of backup CDs of directory <DIR-NAME> (One CD has a capacity of 600 Mbytes, the UNIX command `/usr/bin/du -k .` gives the number of kilo bytes in the current directory). Name of backup CDs	______	See analysis sheet BackUp

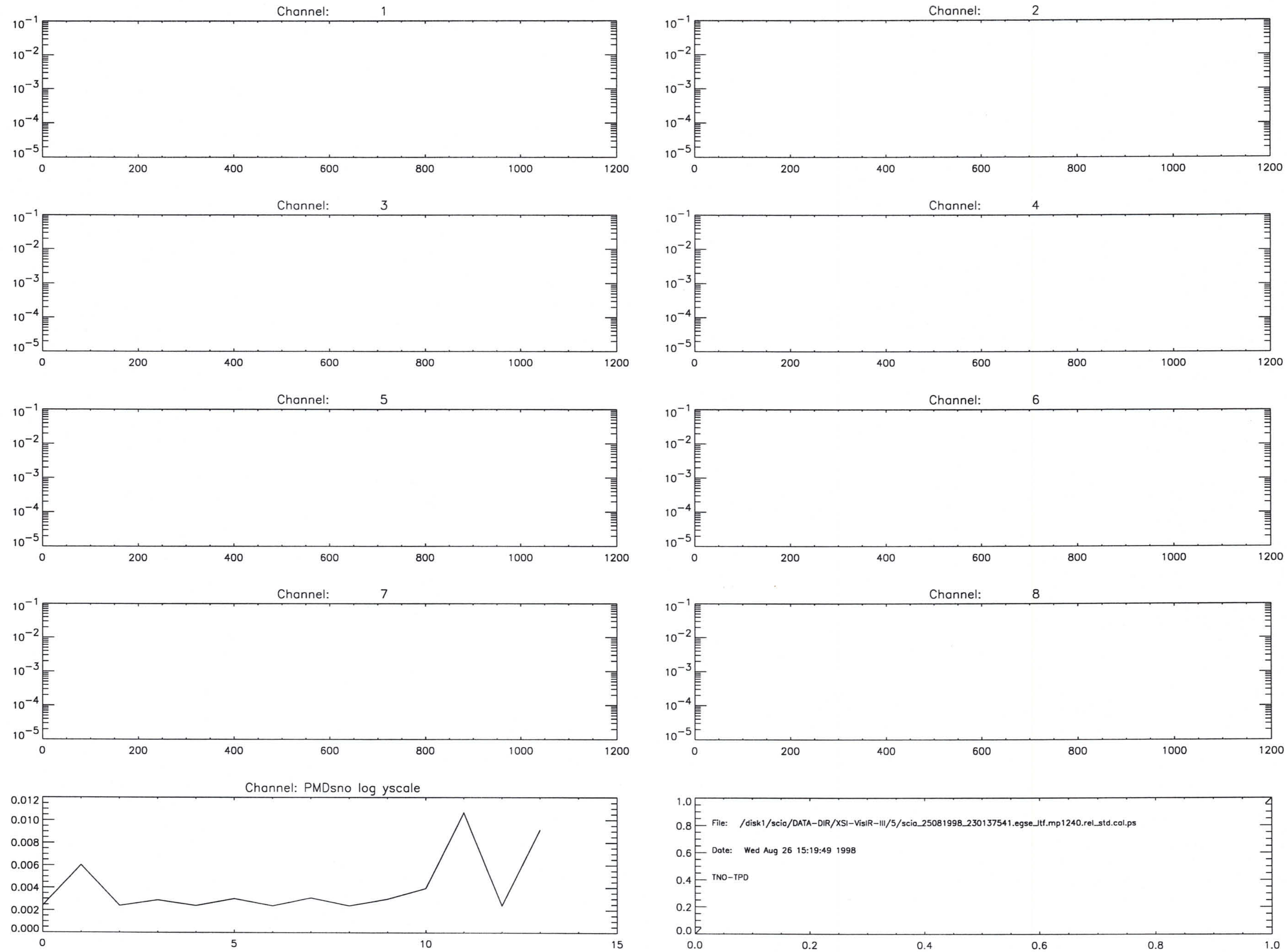
Sign:	Name	[illegible]
	Date and time	26-08-98

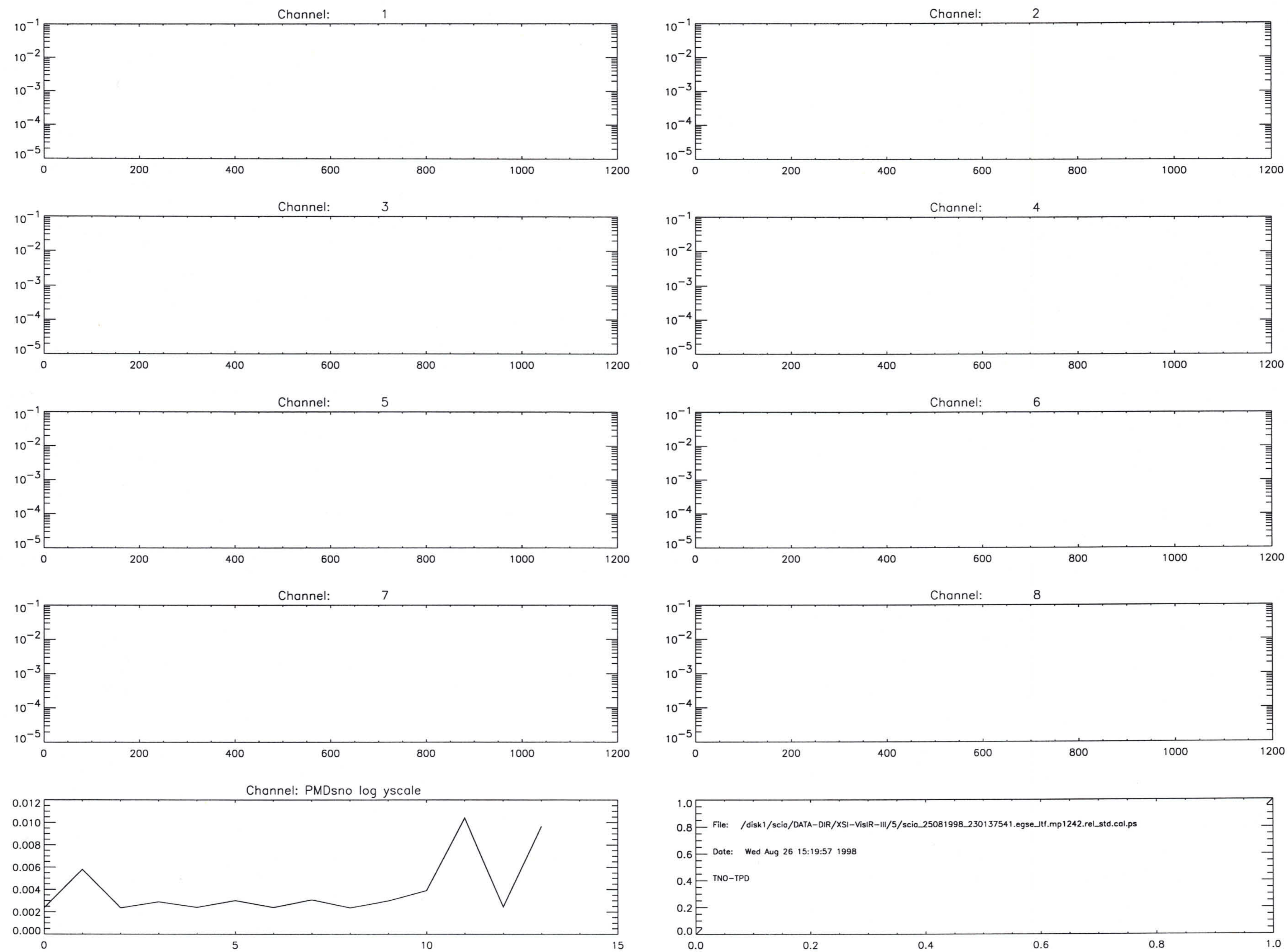

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.du1.avg.cal.ps
Date: Wed Aug 26 15:19:40 1998
TNO-TPD



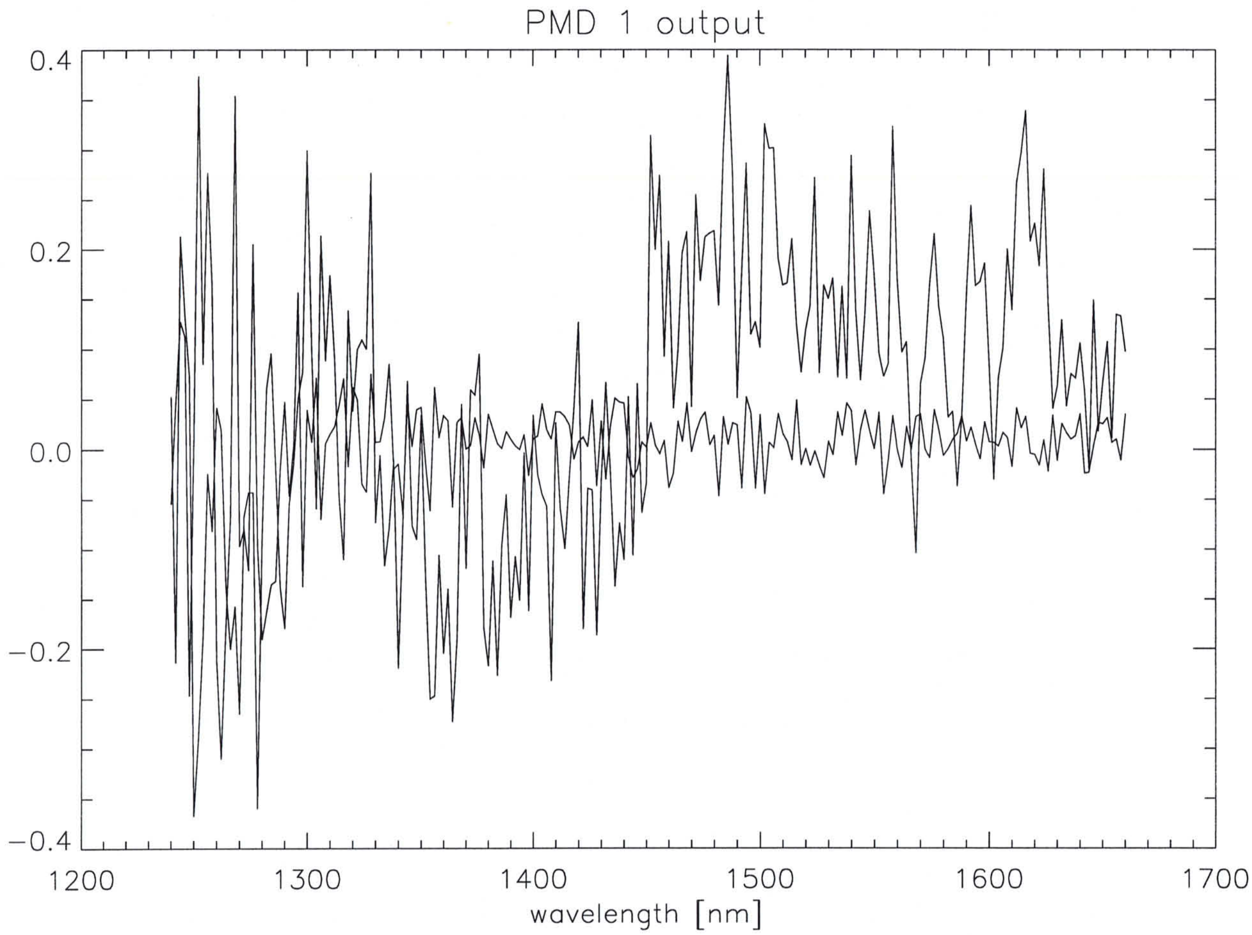
Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1240.avg.cal.ps
Date: Wed Aug 26 15:19:48 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1242.avg.cal.ps
Date: Wed Aug 26 15:19:57 1998
TNO-TPD

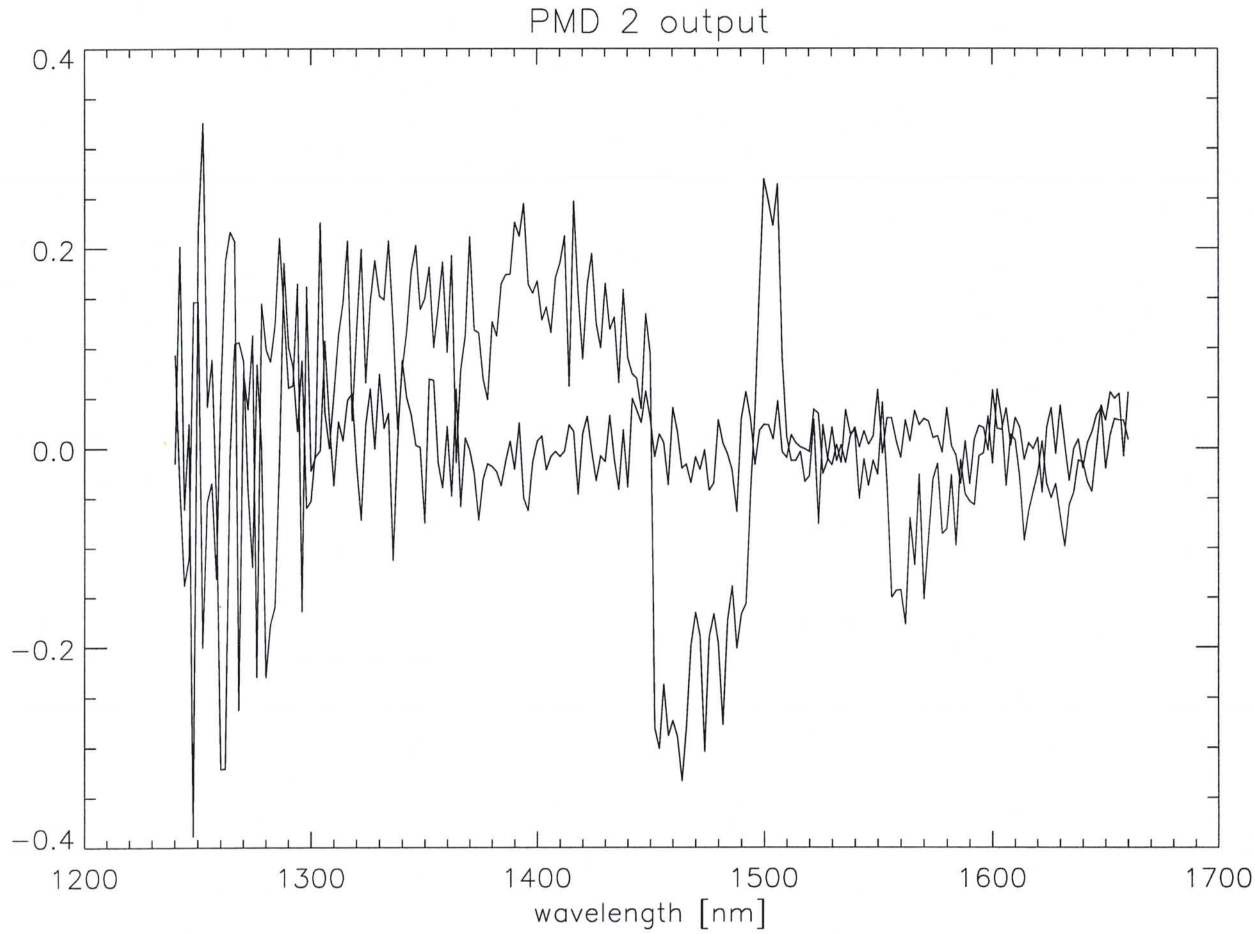

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1240.rel_std.cal.ps
Date: Wed Aug 26 15:19:49 1998
TNO-TPD

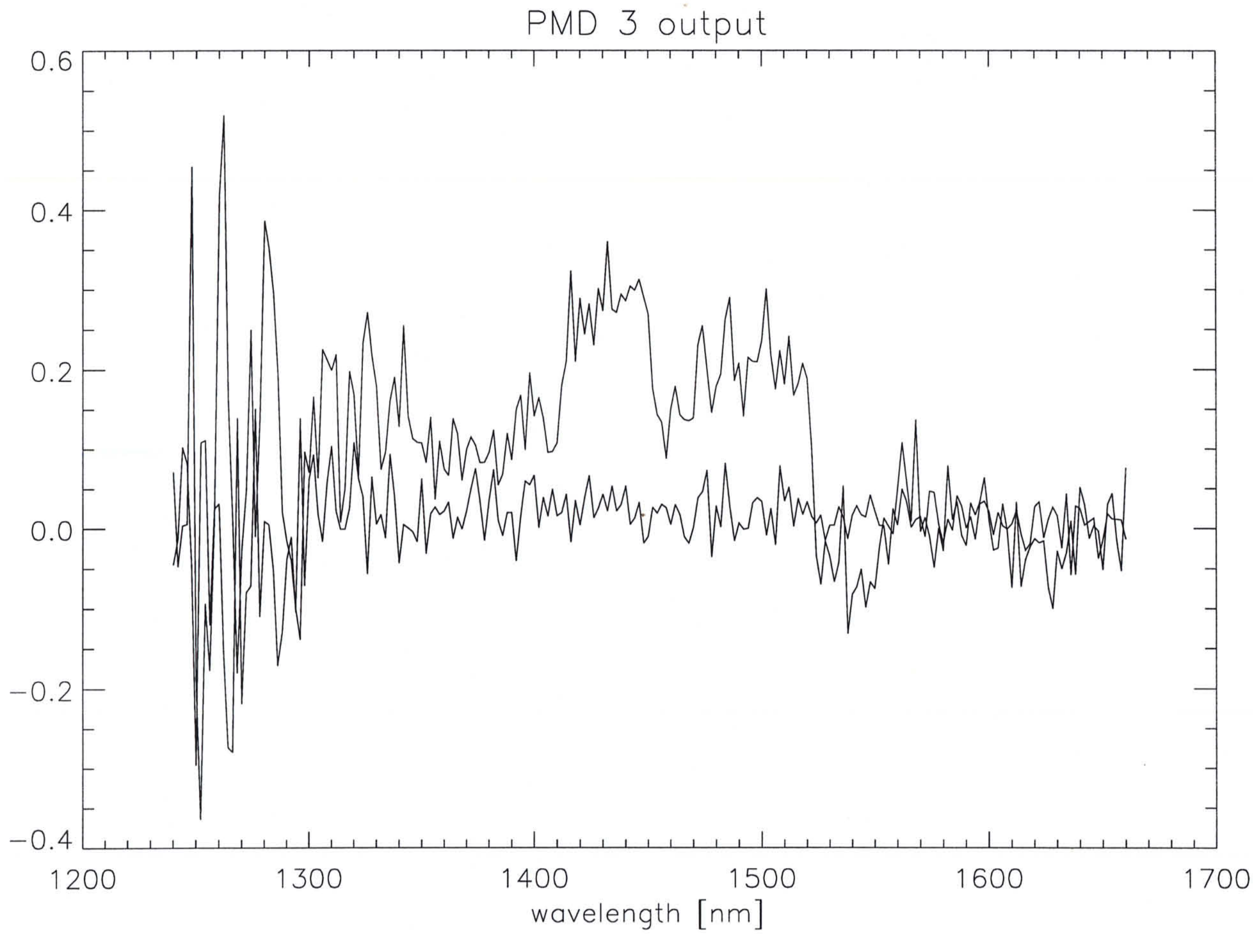

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1242.rel_std.cal.ps
Date: Wed Aug 26 15:19:57 1998
TNO-TPD

```
1240 1450 scia_25081998_230137541.egse_ltf.du1.avg.cal
1452 1660 scia_25081998_230137541.egse_ltf.du2.avg.cal
```

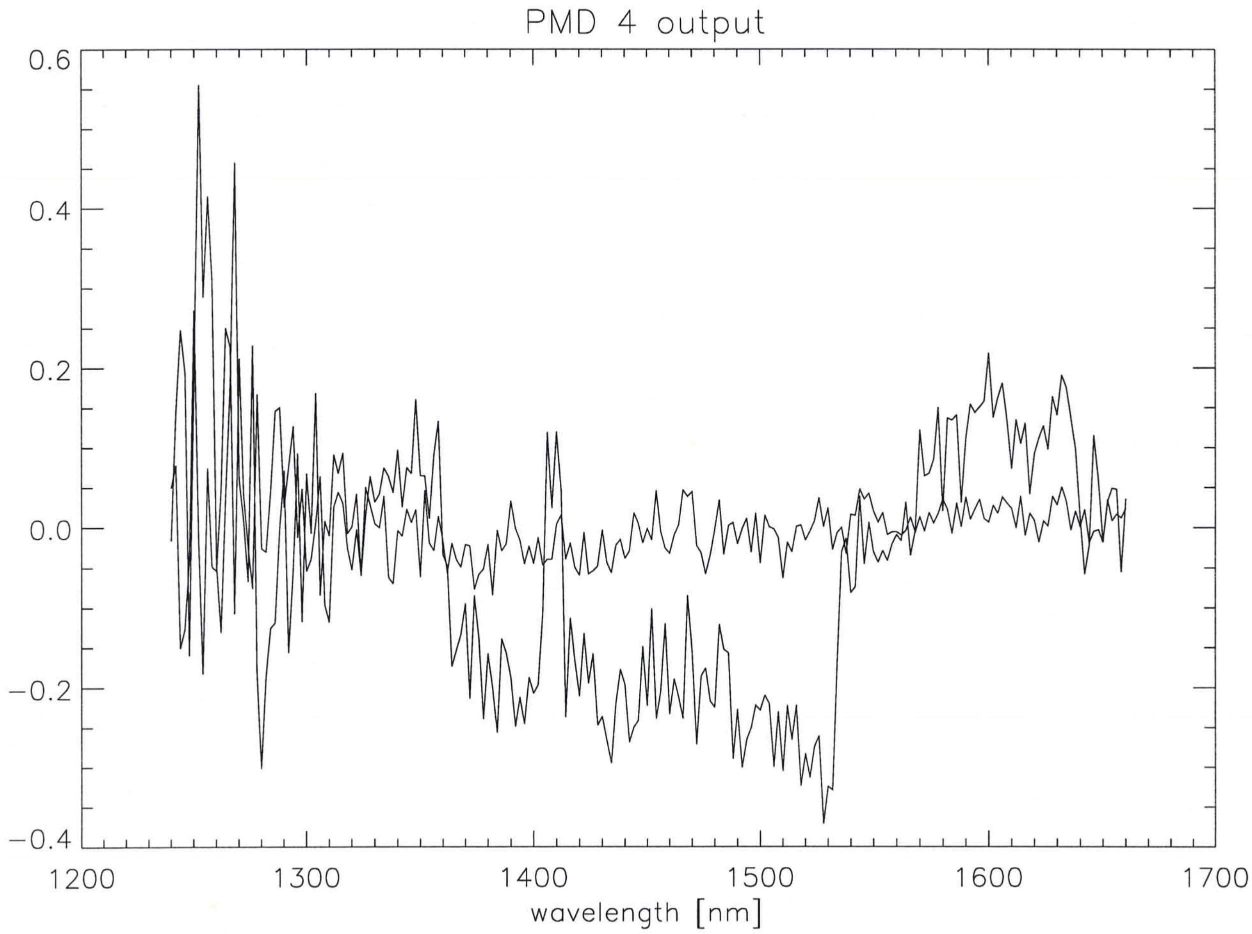


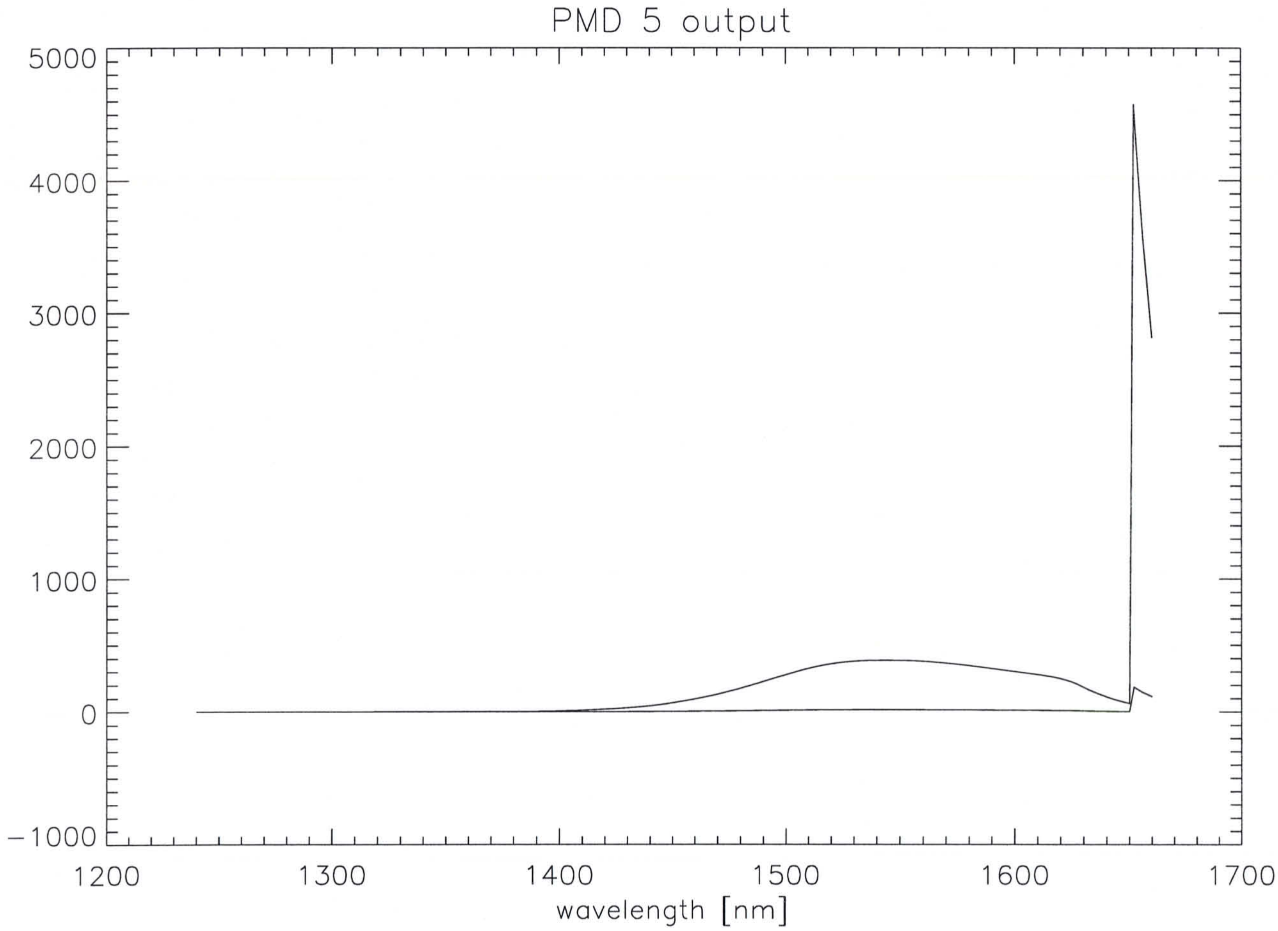
PMD 1 output
0.4
0.2
0.0
−0.2
−0.4
1200
1300
1400
1500
1600
1700
wavelength [nm]

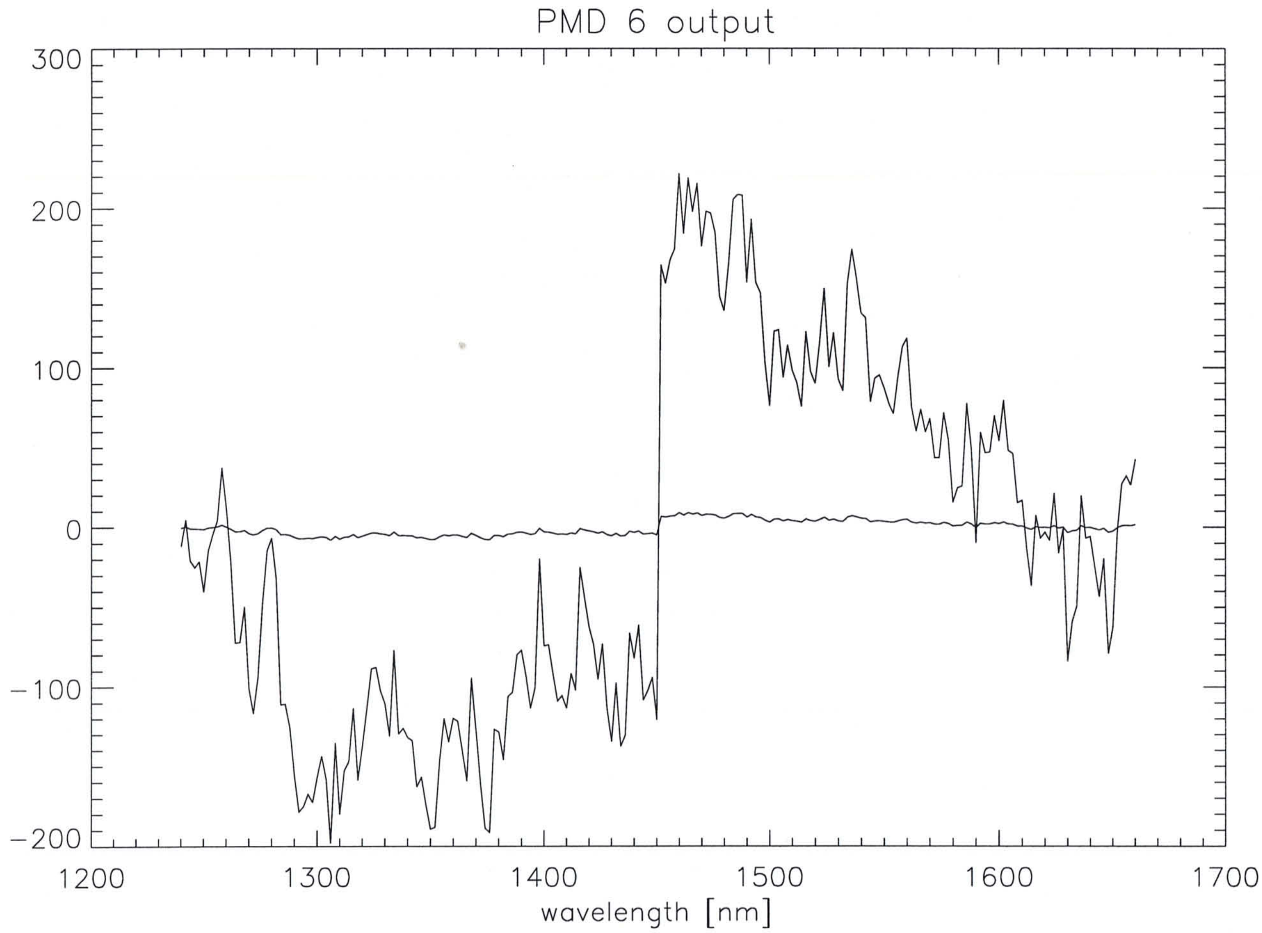

PMD 2 output
0.4
0.2
0.0
−0.2
−0.4
1200
1300
1400
1500
1600
1700
wavelength [nm]



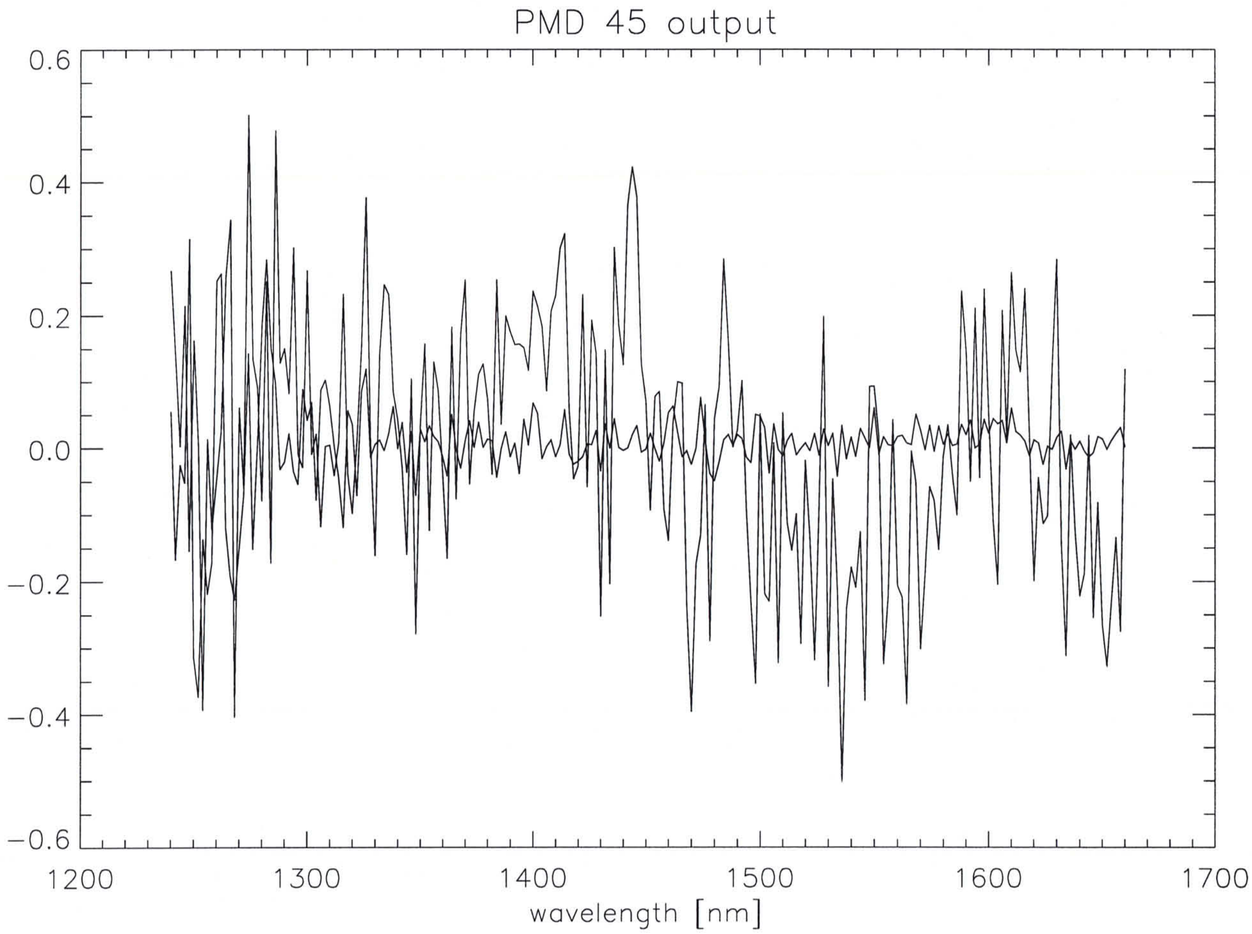
PMD 3 output
0.6
0.4
0.2
0.0
−0.2
−0.4
1200
1300
1400
1500
1600
1700
wavelength [nm]

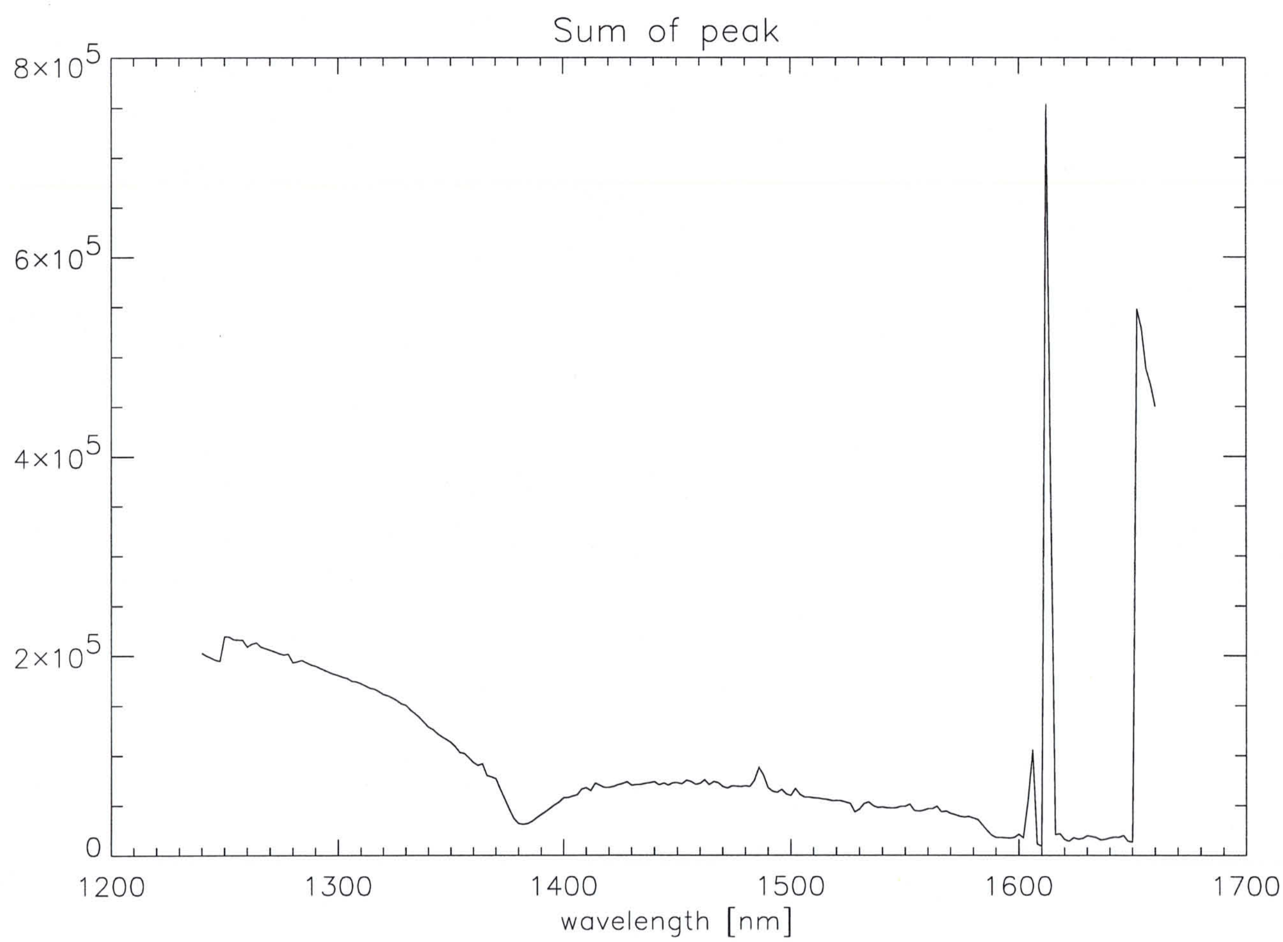

PMD 4 output
0.6
0.4
0.2
0.0
−0.2
−0.4
1200
1300
1400
1500
1600
1700
wavelength [nm]


PMD 5 output
5000
4000
3000
2000
1000
0
−1000
1200
1300
1400
1500
1600
1700
wavelength [nm]

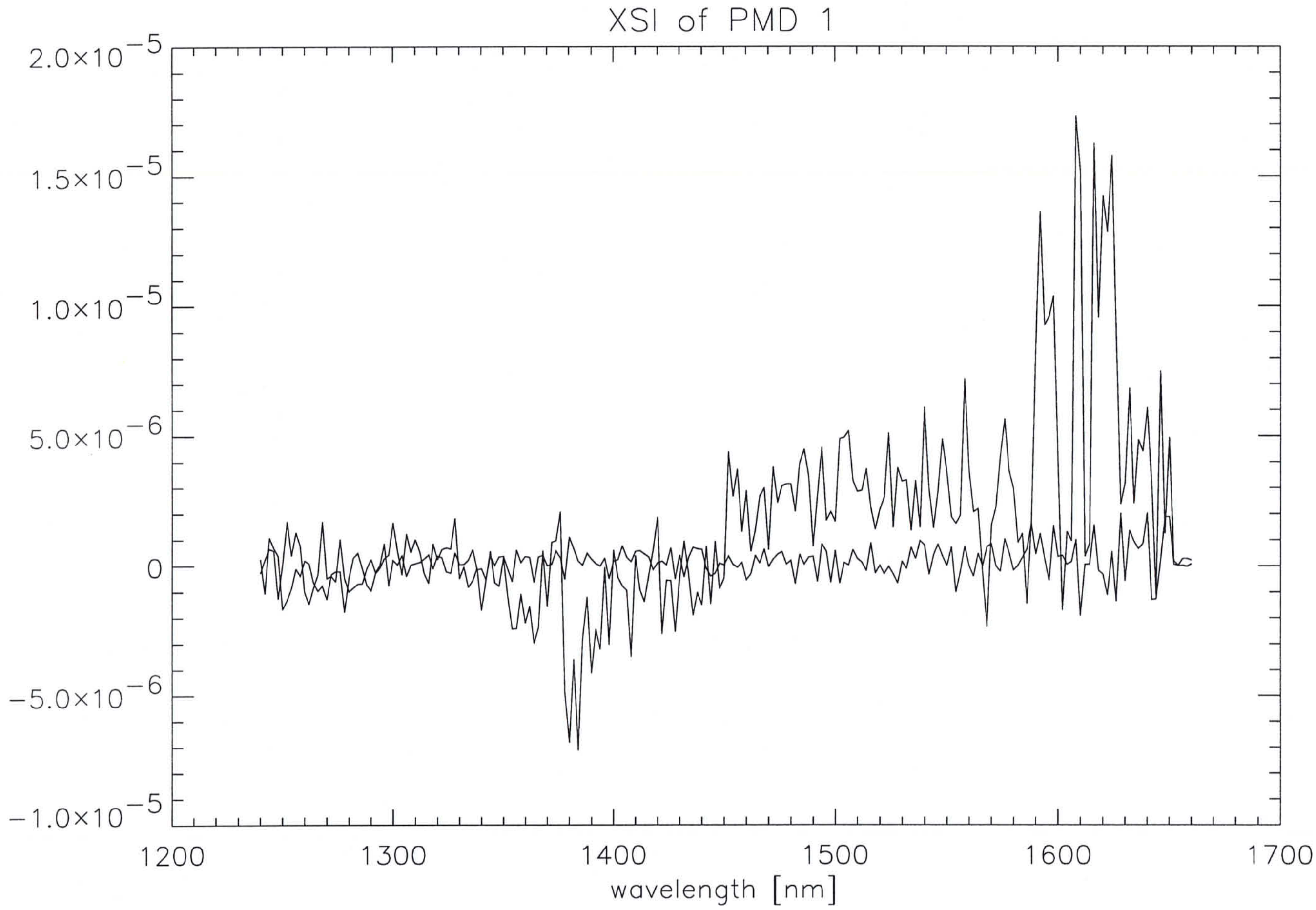


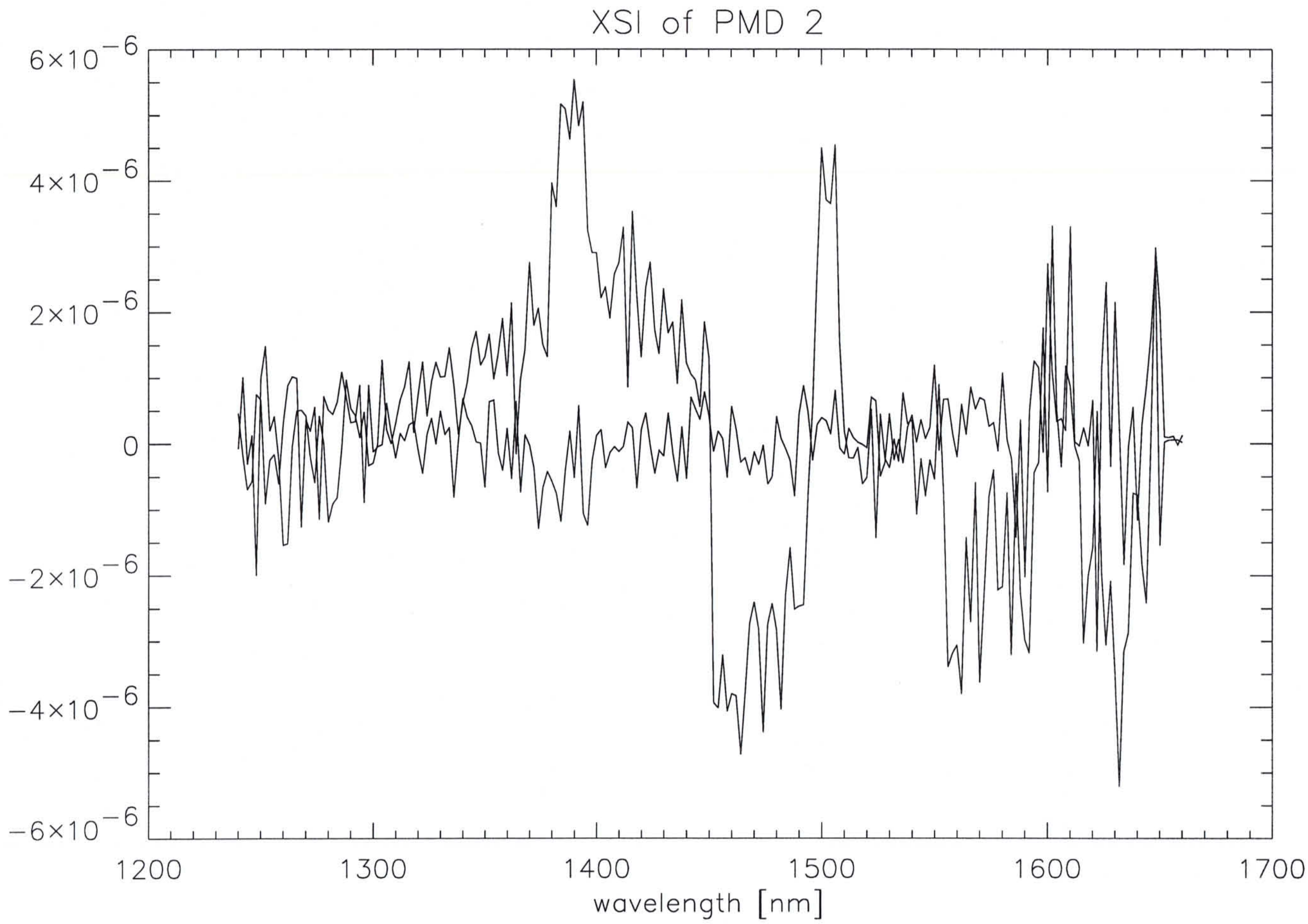
PMD 6 output
300
200
100
0
−100
−200
1200
1300
1400
1500
1600
1700
wavelength [nm]

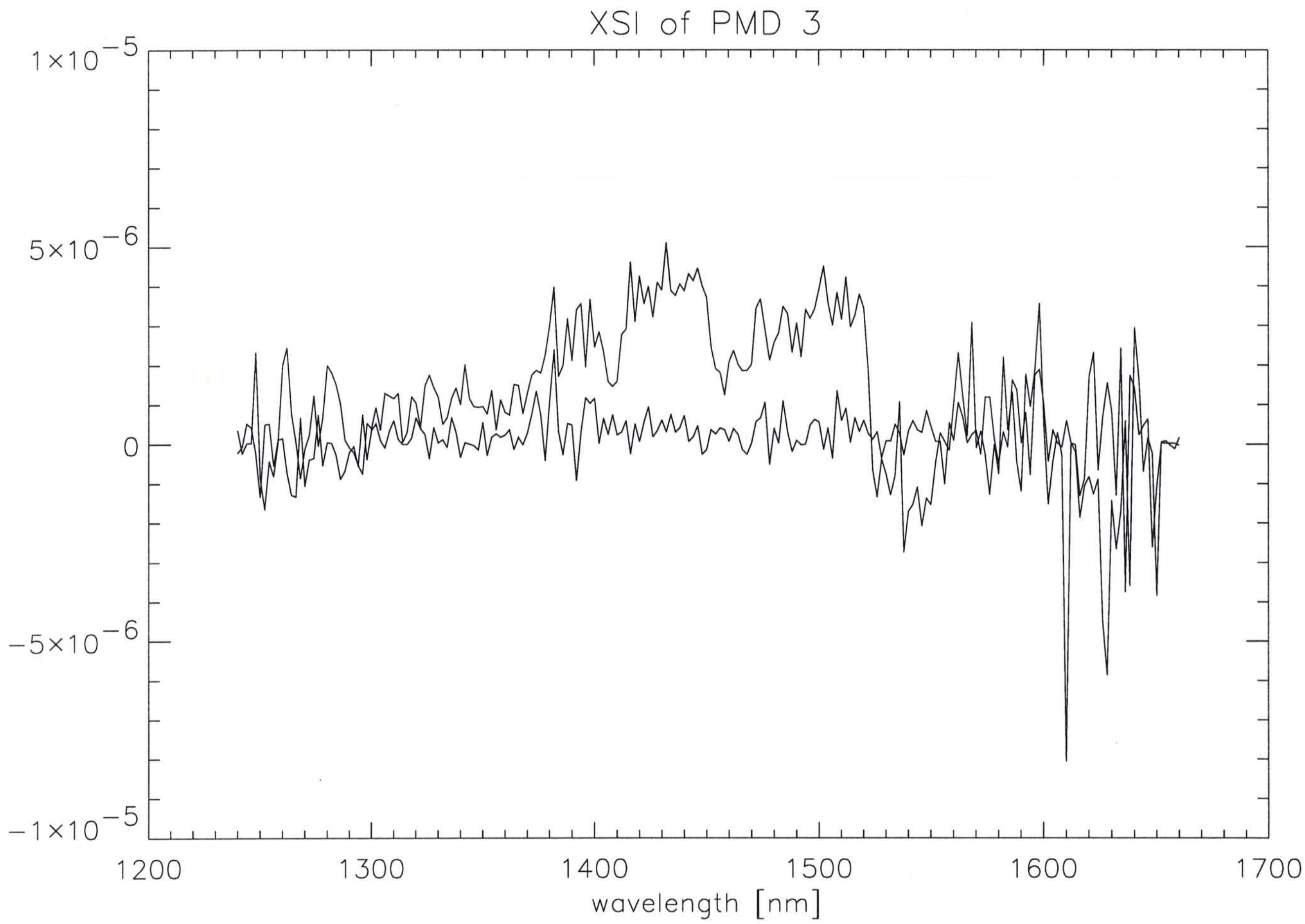

PMD 45 output
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
1200
1300
1400
1500
1600
1700
wavelength [nm]



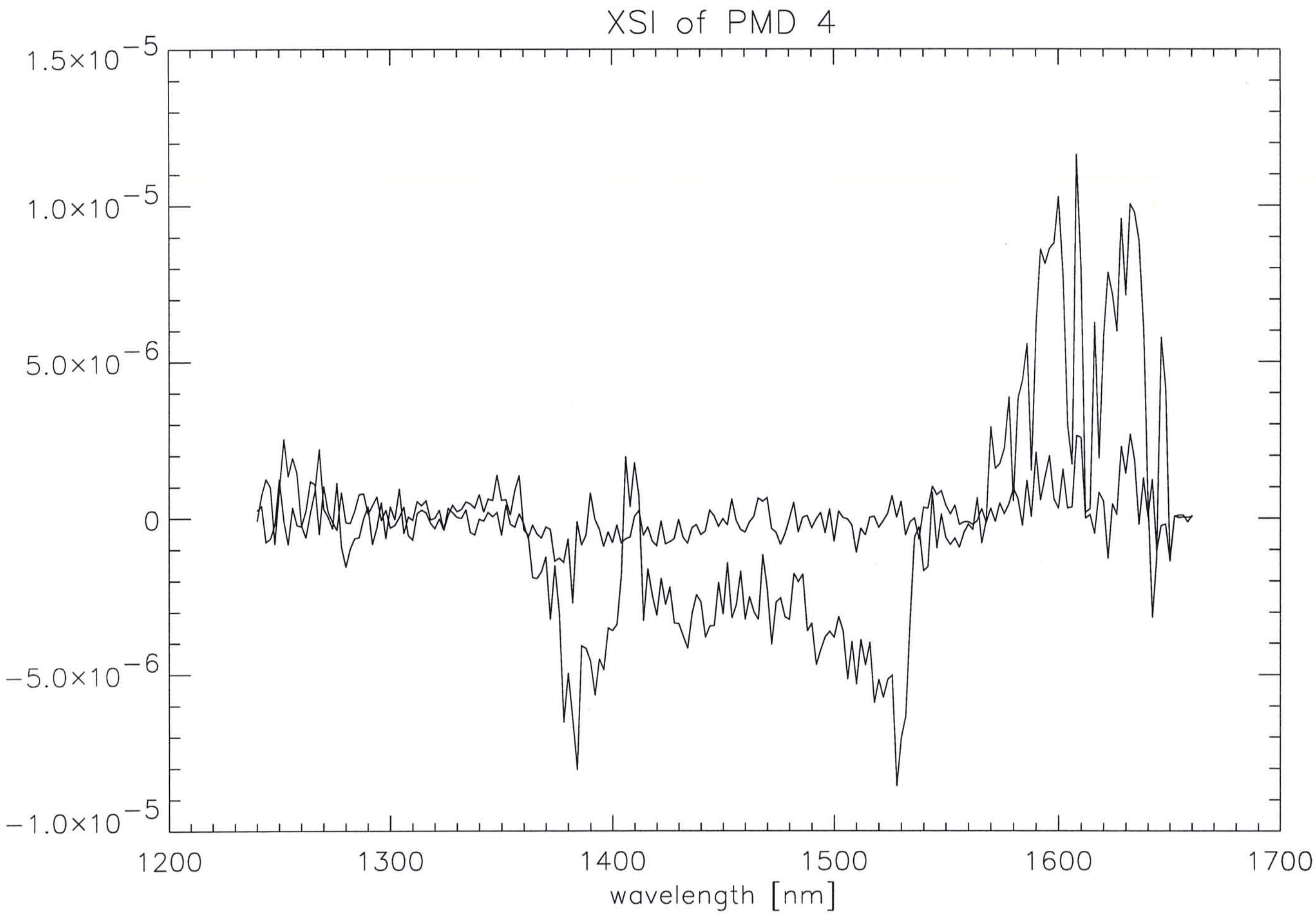
Sum of peak
8×10^5
6×10^5
4×10^5
2×10^5
0
1200
1300
1400
1500
1600
1700
wavelength [nm]

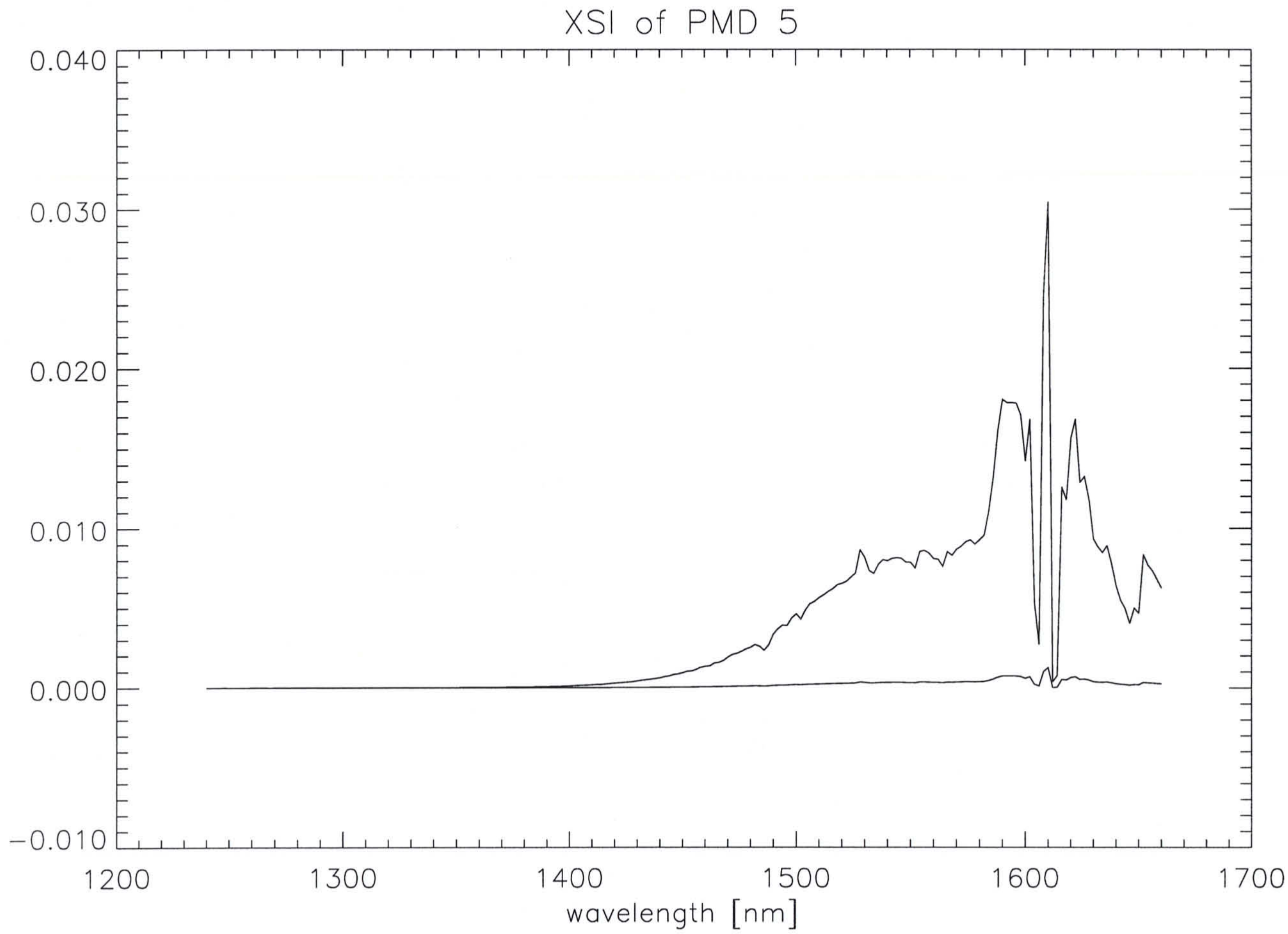

XSI of PMD 1
2.0×10^−5
1.5×10^−5
1.0×10^−5
5.0×10^−6
0
−5.0×10^−6
−1.0×10^−5
1200
1300
1400
1500
1600
1700
wavelength [nm]

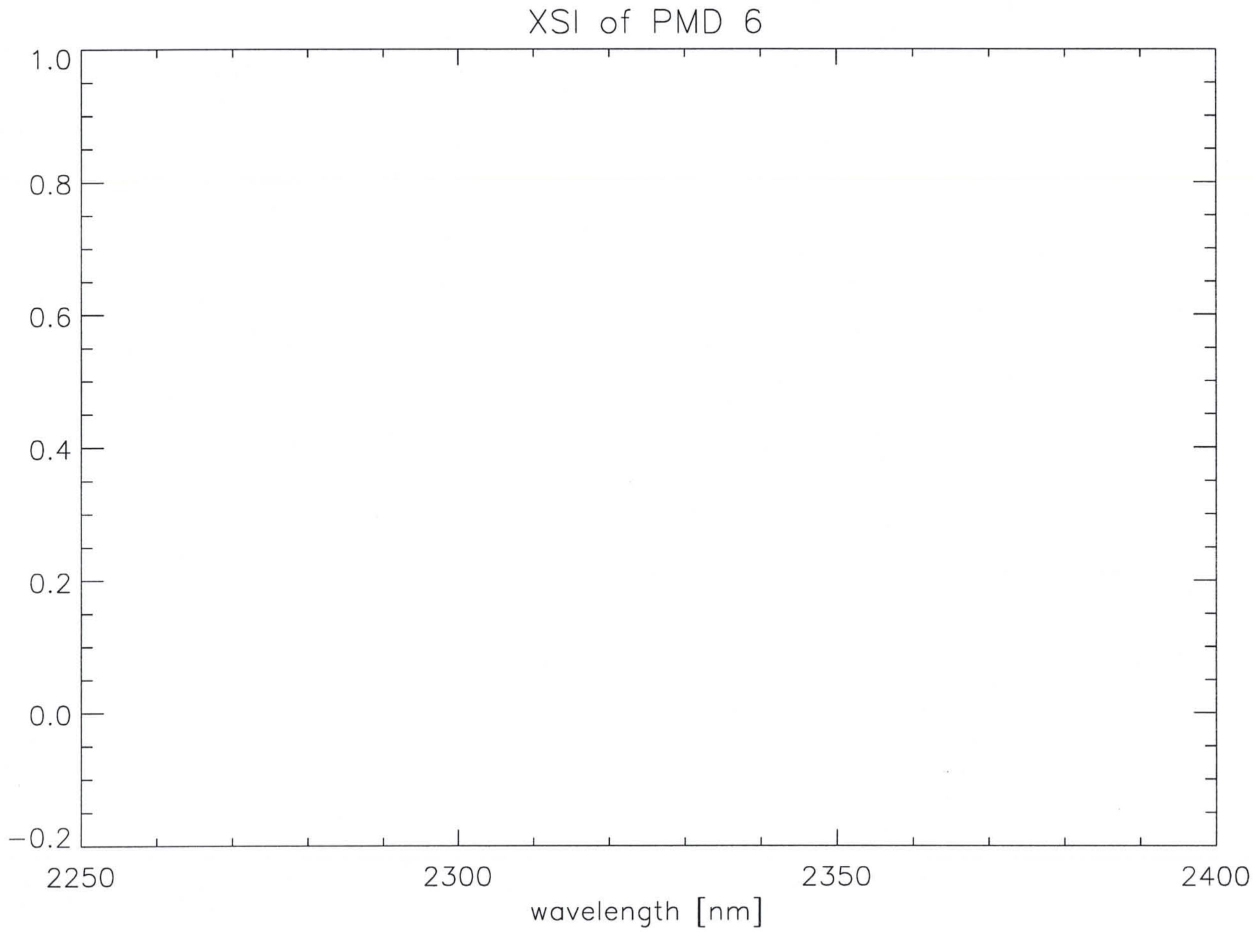

XSI of PMD 2
6×10^{-6}
4×10^{-6}
2×10^{-6}
0
-2×10^{-6}
-4×10^{-6}
-6×10^{-6}
1200
1300
1400
1500
1600
1700
wavelength [nm]

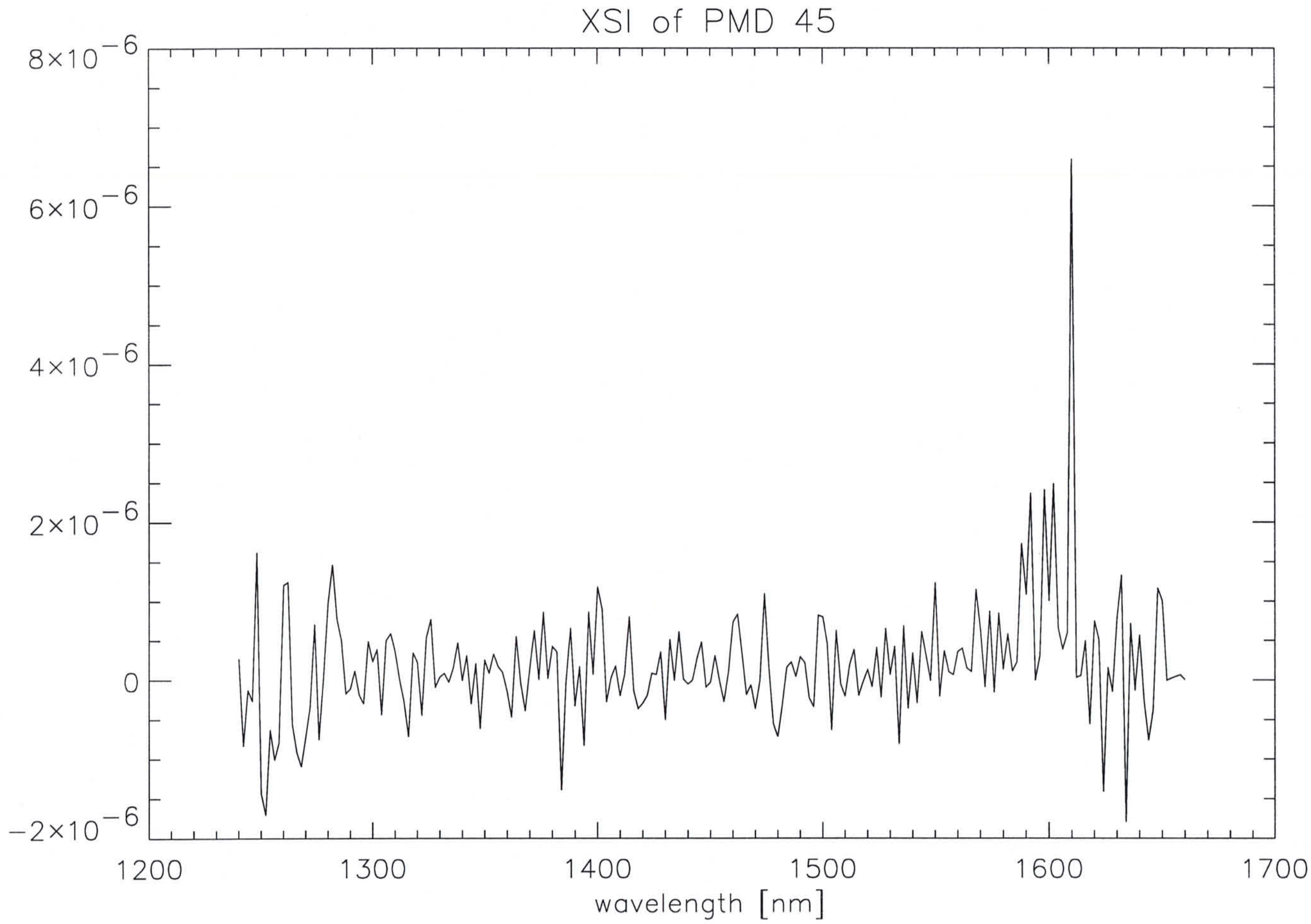


XSI of PMD 3
1×10⁻⁵
5×10⁻⁶
0
−5×10⁻⁶
−1×10⁻⁵
1200
1300
1400
1500
1600
1700
wavelength [nm]


XSI of PMD 4
1.5×10^-5
1.0×10^-5
5.0×10^-6
0
−5.0×10^-6
−1.0×10^-5
1200
1300
1400
1500
1600
1700
wavelength [nm]


XSI of PMD 5
0.040
0.030
0.020
0.010
0.000
−0.010
1200
1300
1400
1500
1600
1700
wavelength [nm]


XSI of PMD 6
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
2250
2300
2350
2400
wavelength [nm]



XSI of PMD 45
8×10⁻⁶
6×10⁻⁶
4×10⁻⁶
2×10⁻⁶
0
−2×10⁻⁶
1200
1300
1400
1500
1600
1700
wavelength [nm]

```
Version:  0.1
Input files:  /disk1/scia/DATA-DIR/XSI-VisIR-III/5/control-file
 scia_25081998_230137541.egse_ltf.du1.avg.cal
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/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1600.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1602.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1604.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1606.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1608.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1610.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1612.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1614.

```
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1616.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1618.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1620.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1622.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1624.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1626.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1628.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1630.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1632.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1634.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1636.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1638.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1640.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1642.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1644.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1646.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1648.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1650.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1652.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1654.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1656.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1658.
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.mp1660.
Processing:
Computation of XSI
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: Wed Aug 26 16:29:29 1998
Output file name:
/disk1/scia/DATA-DIR/XSI-VisIR-III/5/scia_25081998_230137541.egse_ltf.du1.avg.
```

LSI - VisIR - III /5

```
#! /bin/sh
mv 0238_05_01_35.HISTORY f0.x
mv 25082301.DAT f1.x
mv WS_FTP.LOG f2.x
mv control-file f3.x
mv dapbchklog f4.x
mv dapbseqlog f5.x
mv egse.inf f6.x
mv gemsmpara.dat f7.x
mv hk_ccb.dat f8.x
mv hk_optec.dat f9.x
mv scia_25081998_230137541.dat f10.x
mv scia_25081998_230137541.egse_ltf f11.x
mv scia_25081998_230137541.egse_ltf.du1.avg.cal f12.x
mv scia_25081998_230137541.egse_ltf.du1.avg.cal.ps f13.x
mv scia_25081998_230137541.egse_ltf.du1.avg.p1.cal f14.x
mv scia_25081998_230137541.egse_ltf.du1.avg.p1.cal.data f15.x
mv scia_25081998_230137541.egse_ltf.du1.avg.p1.cal.data.log f16.x
mv scia_25081998_230137541.egse_ltf.du1.avg.p1.cal.data.ps f17.x
mv scia_25081998_230137541.egse_ltf.du1.avg.p1.cal.data.ps.log f18.x
mv scia_25081998_230137541.egse_ltf.du1.log f19.x
mv scia_25081998_230137541.egse_ltf.du1.rel_std.cal f20.x
m  scia_25081998_230137541.egse_ltf.du1.rel_std.cal.ps f21.x
mv scia_25081998_230137541.egse_ltf.du1.std.cal f22.x
mv scia_25081998_230137541.egse_ltf.du1.std.cal.ps f23.x
mv scia_25081998_230137541.egse_ltf.du2.avg.cal f24.x
mv scia_25081998_230137541.egse_ltf.du2.log f25.x
mv scia_25081998_230137541.egse_ltf.mp1240.avg.cal f26.x
mv scia_25081998_230137541.egse_ltf.mp1240.avg.cal.ps f27.x
mv scia_25081998_230137541.egse_ltf.mp1240.log f28.x
mv scia_25081998_230137541.egse_ltf.mp1240.rel_std.cal f29.x
mv scia_25081998_230137541.egse_ltf.mp1240.rel_std.cal.ps f30.x
mv scia_25081998_230137541.egse_ltf.mp1240.std.cal f31.x
mv scia_25081998_230137541.egse_ltf.mp1240.std.cal.ps f32.x
mv scia_25081998_230137541.egse_ltf.mp1242.avg.cal f33.x
mv scia_25081998_230137541.egse_ltf.mp1242.avg.cal.ps f34.x
mv scia_25081998_230137541.egse_ltf.mp1242.log f35.x
mv scia_25081998_230137541.egse_ltf.mp1242.rel_std.cal f36.x
mv scia_25081998_230137541.egse_ltf.mp1242.rel_std.cal.ps f37.x
mv scia_25081998_230137541.egse_ltf.mp1242.std.cal f38.x
mv scia_25081998_230137541.egse_ltf.mp1242.std.cal.ps f39.x
m  scia_25081998_230137541.egse_ltf.mp1244.avg.cal f40.x
mv scia_25081998_230137541.egse_ltf.mp1244.log f41.x
mv scia_25081998_230137541.egse_ltf.mp1246.avg.cal f42.x
mv scia_25081998_230137541.egse_ltf.mp1246.log f43.x
mv scia_25081998_230137541.egse_ltf.mp1248.avg.cal f44.x
mv scia_25081998_230137541.egse_ltf.mp1248.log f45.x
mv scia_25081998_230137541.egse_ltf.mp1250.avg.cal f46.x
mv scia_25081998_230137541.egse_ltf.mp1250.log f47.x
mv scia_25081998_230137541.egse_ltf.mp1252.avg.cal f48.x
mv scia_25081998_230137541.egse_ltf.mp1252.log f49.x
mv scia_25081998_230137541.egse_ltf.mp1254.avg.cal f50.x
mv scia_25081998_230137541.egse_ltf.mp1254.log f51.x
mv scia_25081998_230137541.egse_ltf.mp1256.avg.cal f52.x
mv scia_25081998_230137541.egse_ltf.mp1256.log f53.x
mv scia_25081998_230137541.egse_ltf.mp1258.avg.cal f54.x
mv scia_25081998_230137541.egse_ltf.mp1258.log f55.x
mv scia_25081998_230137541.egse_ltf.mp1260.avg.cal f56.x
mv scia_25081998_230137541.egse_ltf.mp1260.log f57.x
mv scia_25081998_230137541.egse_ltf.mp1262.avg.cal f58.x
mv scia_25081998_230137541.egse_ltf.mp1262.log f59.x
mv scia_25081998_230137541.egse_ltf.mp1264.avg.cal f60.x
mv scia_25081998_230137541.egse_ltf.mp1264.log f61.x
mv scia_25081998_230137541.egse_ltf.mp1266.avg.cal f62.x
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mv scia_25081998_230137541.egse_ltf.mp1266.log f63.x
mv scia_25081998_230137541.egse_ltf.mp1268.avg.cal f64.x
mv scia_25081998_230137541.egse_ltf.mp1268.log f65.x
mv scia_25081998_230137541.egse_ltf.mp1270.avg.cal f66.x
mv scia_25081998_230137541.egse_ltf.mp1270.log f67.x
mv scia_25081998_230137541.egse_ltf.mp1272.avg.cal f68.x
mv scia_25081998_230137541.egse_ltf.mp1272.log f69.x
mv scia_25081998_230137541.egse_ltf.mp1274.avg.cal f70.x
mv scia_25081998_230137541.egse_ltf.mp1274.log f71.x
mv scia_25081998_230137541.egse_ltf.mp1276.avg.cal f72.x
mv scia_25081998_230137541.egse_ltf.mp1276.log f73.x
mv scia_25081998_230137541.egse_ltf.mp1278.avg.cal f74.x
mv scia_25081998_230137541.egse_ltf.mp1278.log f75.x
mv scia_25081998_230137541.egse_ltf.mp1280.avg.cal f76.x
mv scia_25081998_230137541.egse_ltf.mp1280.log f77.x
mv scia_25081998_230137541.egse_ltf.mp1282.avg.cal f78.x
mv scia_25081998_230137541.egse_ltf.mp1282.log f79.x
mv scia_25081998_230137541.egse_ltf.mp1284.avg.cal f80.x
mv scia_25081998_230137541.egse_ltf.mp1284.log f81.x
mv scia_25081998_230137541.egse_ltf.mp1286.avg.cal f82.x
mv scia_25081998_230137541.egse_ltf.mp1286.log f83.x
mv scia_25081998_230137541.egse_ltf.mp1288.avg.cal f84.x
mv scia_25081998_230137541.egse_ltf.mp1288.log f85.x
mv scia_25081998_230137541.egse_ltf.mp1290.avg.cal f86.x
mv scia_25081998_230137541.egse_ltf.mp1290.log f87.x
mv scia_25081998_230137541.egse_ltf.mp1292.avg.cal f88.x
mv scia_25081998_230137541.egse_ltf.mp1292.log f89.x
mv scia_25081998_230137541.egse_ltf.mp1294.avg.cal f90.x
mv scia_25081998_230137541.egse_ltf.mp1294.log f91.x
mv scia_25081998_230137541.egse_ltf.mp1296.avg.cal f92.x
mv scia_25081998_230137541.egse_ltf.mp1296.log f93.x
mv scia_25081998_230137541.egse_ltf.mp1298.avg.cal f94.x
mv scia_25081998_230137541.egse_ltf.mp1298.log f95.x
mv scia_25081998_230137541.egse_ltf.mp1300.avg.cal f96.x
mv scia_25081998_230137541.egse_ltf.mp1300.log f97.x
mv scia_25081998_230137541.egse_ltf.mp1302.avg.cal f98.x
mv scia_25081998_230137541.egse_ltf.mp1302.log f99.x
mv scia_25081998_230137541.egse_ltf.mp1304.avg.cal f100.x
mv scia_25081998_230137541.egse_ltf.mp1304.log f101.x
mv scia_25081998_230137541.egse_ltf.mp1306.avg.cal f102.x
mv scia_25081998_230137541.egse_ltf.mp1306.log f103.x
mv scia_25081998_230137541.egse_ltf.mp1308.avg.cal f104.x
mv scia_25081998_230137541.egse_ltf.mp1308.log f105.x
mv scia_25081998_230137541.egse_ltf.mp1310.avg.cal f106.x
mv scia_25081998_230137541.egse_ltf.mp1310.log f107.x
mv scia_25081998_230137541.egse_ltf.mp1312.avg.cal f108.x
mv scia_25081998_230137541.egse_ltf.mp1312.log f109.x
mv scia_25081998_230137541.egse_ltf.mp1314.avg.cal f110.x
mv scia_25081998_230137541.egse_ltf.mp1314.log f111.x
mv scia_25081998_230137541.egse_ltf.mp1316.avg.cal f112.x
mv scia_25081998_230137541.egse_ltf.mp1316.log f113.x
mv scia_25081998_230137541.egse_ltf.mp1318.avg.cal f114.x
mv scia_25081998_230137541.egse_ltf.mp1318.log f115.x
mv scia_25081998_230137541.egse_ltf.mp1320.avg.cal f116.x
mv scia_25081998_230137541.egse_ltf.mp1320.log f117.x
mv scia_25081998_230137541.egse_ltf.mp1322.avg.cal f118.x
mv scia_25081998_230137541.egse_ltf.mp1322.log f119.x
mv scia_25081998_230137541.egse_ltf.mp1324.avg.cal f120.x
mv scia_25081998_230137541.egse_ltf.mp1324.log f121.x
mv scia_25081998_230137541.egse_ltf.mp1326.avg.cal f122.x
mv scia_25081998_230137541.egse_ltf.mp1326.log f123.x
mv scia_25081998_230137541.egse_ltf.mp1328.avg.cal f124.x
mv scia_25081998_230137541.egse_ltf.mp1328.log f125.x
mv scia_25081998_230137541.egse_ltf.mp1330.avg.cal f126.x
```

```
mv scia_25081998_230137541.egse_ltf.mp1330.log f127.x
mv scia_25081998_230137541.egse_ltf.mp1332.avg.cal f128.x
mv scia_25081998_230137541.egse_ltf.mp1332.log f129.x
mv scia_25081998_230137541.egse_ltf.mp1334.avg.cal f130.x
mv scia_25081998_230137541.egse_ltf.mp1334.log f131.x
mv scia_25081998_230137541.egse_ltf.mp1336.avg.cal f132.x
mv scia_25081998_230137541.egse_ltf.mp1336.log f133.x
mv scia_25081998_230137541.egse_ltf.mp1338.avg.cal f134.x
mv scia_25081998_230137541.egse_ltf.mp1338.log f135.x
mv scia_25081998_230137541.egse_ltf.mp1340.avg.cal f136.x
mv scia_25081998_230137541.egse_ltf.mp1340.log f137.x
mv scia_25081998_230137541.egse_ltf.mp1342.avg.cal f138.x
mv scia_25081998_230137541.egse_ltf.mp1342.log f139.x
mv scia_25081998_230137541.egse_ltf.mp1344.avg.cal f140.x
mv scia_25081998_230137541.egse_ltf.mp1344.log f141.x
mv scia_25081998_230137541.egse_ltf.mp1346.avg.cal f142.x
mv scia_25081998_230137541.egse_ltf.mp1346.log f143.x
mv scia_25081998_230137541.egse_ltf.mp1348.avg.cal f144.x
mv scia_25081998_230137541.egse_ltf.mp1348.log f145.x
mv scia_25081998_230137541.egse_ltf.mp1350.avg.cal f146.x
mv scia_25081998_230137541.egse_ltf.mp1350.log f147.x
mv scia_25081998_230137541.egse_ltf.mp1352.avg.cal f148.x
n  scia_25081998_230137541.egse_ltf.mp1352.log f149.x
mv scia_25081998_230137541.egse_ltf.mp1354.avg.cal f150.x
mv scia_25081998_230137541.egse_ltf.mp1354.log f151.x
mv scia_25081998_230137541.egse_ltf.mp1356.avg.cal f152.x
mv scia_25081998_230137541.egse_ltf.mp1356.log f153.x
mv scia_25081998_230137541.egse_ltf.mp1358.avg.cal f154.x
mv scia_25081998_230137541.egse_ltf.mp1358.log f155.x
mv scia_25081998_230137541.egse_ltf.mp1360.avg.cal f156.x
mv scia_25081998_230137541.egse_ltf.mp1360.log f157.x
mv scia_25081998_230137541.egse_ltf.mp1362.avg.cal f158.x
mv scia_25081998_230137541.egse_ltf.mp1362.log f159.x
mv scia_25081998_230137541.egse_ltf.mp1364.avg.cal f160.x
mv scia_25081998_230137541.egse_ltf.mp1364.log f161.x
mv scia_25081998_230137541.egse_ltf.mp1366.avg.cal f162.x
mv scia_25081998_230137541.egse_ltf.mp1366.log f163.x
mv scia_25081998_230137541.egse_ltf.mp1368.avg.cal f164.x
mv scia_25081998_230137541.egse_ltf.mp1368.log f165.x
mv scia_25081998_230137541.egse_ltf.mp1370.avg.cal f166.x
mv scia_25081998_230137541.egse_ltf.mp1370.log f167.x
m  scia_25081998_230137541.egse_ltf.mp1372.avg.cal f168.x
mv scia_25081998_230137541.egse_ltf.mp1372.log f169.x
mv scia_25081998_230137541.egse_ltf.mp1374.avg.cal f170.x
mv scia_25081998_230137541.egse_ltf.mp1374.log f171.x
mv scia_25081998_230137541.egse_ltf.mp1376.avg.cal f172.x
mv scia_25081998_230137541.egse_ltf.mp1376.log f173.x
mv scia_25081998_230137541.egse_ltf.mp1378.avg.cal f174.x
mv scia_25081998_230137541.egse_ltf.mp1378.log f175.x
mv scia_25081998_230137541.egse_ltf.mp1380.avg.cal f176.x
mv scia_25081998_230137541.egse_ltf.mp1380.log f177.x
mv scia_25081998_230137541.egse_ltf.mp1382.avg.cal f178.x
mv scia_25081998_230137541.egse_ltf.mp1382.log f179.x
mv scia_25081998_230137541.egse_ltf.mp1384.avg.cal f180.x
mv scia_25081998_230137541.egse_ltf.mp1384.log f181.x
mv scia_25081998_230137541.egse_ltf.mp1386.avg.cal f182.x
mv scia_25081998_230137541.egse_ltf.mp1386.log f183.x
mv scia_25081998_230137541.egse_ltf.mp1388.avg.cal f184.x
mv scia_25081998_230137541.egse_ltf.mp1388.log f185.x
mv scia_25081998_230137541.egse_ltf.mp1390.avg.cal f186.x
mv scia_25081998_230137541.egse_ltf.mp1390.log f187.x
mv scia_25081998_230137541.egse_ltf.mp1392.avg.cal f188.x
mv scia_25081998_230137541.egse_ltf.mp1392.log f189.x
mv scia_25081998_230137541.egse_ltf.mp1394.avg.cal f190.x
```

```
mv scia_25081998_230137541.egse_ltf.mp1394.log f191.x
mv scia_25081998_230137541.egse_ltf.mp1396.avg.cal f192.x
mv scia_25081998_230137541.egse_ltf.mp1396.log f193.x
mv scia_25081998_230137541.egse_ltf.mp1398.avg.cal f194.x
mv scia_25081998_230137541.egse_ltf.mp1398.log f195.x
mv scia_25081998_230137541.egse_ltf.mp1400.avg.cal f196.x
mv scia_25081998_230137541.egse_ltf.mp1400.log f197.x
mv scia_25081998_230137541.egse_ltf.mp1402.avg.cal f198.x
mv scia_25081998_230137541.egse_ltf.mp1402.log f199.x
mv scia_25081998_230137541.egse_ltf.mp1404.avg.cal f200.x
mv scia_25081998_230137541.egse_ltf.mp1404.log f201.x
mv scia_25081998_230137541.egse_ltf.mp1406.avg.cal f202.x
mv scia_25081998_230137541.egse_ltf.mp1406.log f203.x
mv scia_25081998_230137541.egse_ltf.mp1408.avg.cal f204.x
mv scia_25081998_230137541.egse_ltf.mp1408.log f205.x
mv scia_25081998_230137541.egse_ltf.mp1410.avg.cal f206.x
mv scia_25081998_230137541.egse_ltf.mp1410.log f207.x
mv scia_25081998_230137541.egse_ltf.mp1412.avg.cal f208.x
mv scia_25081998_230137541.egse_ltf.mp1412.log f209.x
mv scia_25081998_230137541.egse_ltf.mp1414.avg.cal f210.x
mv scia_25081998_230137541.egse_ltf.mp1414.log f211.x
mv scia_25081998_230137541.egse_ltf.mp1416.avg.cal f212.x
mv scia_25081998_230137541.egse_ltf.mp1416.log f213.x
mv scia_25081998_230137541.egse_ltf.mp1418.avg.cal f214.x
mv scia_25081998_230137541.egse_ltf.mp1418.log f215.x
mv scia_25081998_230137541.egse_ltf.mp1420.avg.cal f216.x
mv scia_25081998_230137541.egse_ltf.mp1420.log f217.x
mv scia_25081998_230137541.egse_ltf.mp1422.avg.cal f218.x
mv scia_25081998_230137541.egse_ltf.mp1422.log f219.x
mv scia_25081998_230137541.egse_ltf.mp1424.avg.cal f220.x
mv scia_25081998_230137541.egse_ltf.mp1424.log f221.x
mv scia_25081998_230137541.egse_ltf.mp1426.avg.cal f222.x
mv scia_25081998_230137541.egse_ltf.mp1426.log f223.x
mv scia_25081998_230137541.egse_ltf.mp1428.avg.cal f224.x
mv scia_25081998_230137541.egse_ltf.mp1428.log f225.x
mv scia_25081998_230137541.egse_ltf.mp1430.avg.cal f226.x
mv scia_25081998_230137541.egse_ltf.mp1430.log f227.x
mv scia_25081998_230137541.egse_ltf.mp1432.avg.cal f228.x
mv scia_25081998_230137541.egse_ltf.mp1432.log f229.x
mv scia_25081998_230137541.egse_ltf.mp1434.avg.cal f230.x
mv scia_25081998_230137541.egse_ltf.mp1434.log f231.x
mv scia_25081998_230137541.egse_ltf.mp1436.avg.cal f232.x
mv scia_25081998_230137541.egse_ltf.mp1436.log f233.x
mv scia_25081998_230137541.egse_ltf.mp1438.avg.cal f234.x
mv scia_25081998_230137541.egse_ltf.mp1438.log f235.x
mv scia_25081998_230137541.egse_ltf.mp1440.avg.cal f236.x
mv scia_25081998_230137541.egse_ltf.mp1440.log f237.x
mv scia_25081998_230137541.egse_ltf.mp1442.avg.cal f238.x
mv scia_25081998_230137541.egse_ltf.mp1442.log f239.x
mv scia_25081998_230137541.egse_ltf.mp1444.avg.cal f240.x
mv scia_25081998_230137541.egse_ltf.mp1444.log f241.x
mv scia_25081998_230137541.egse_ltf.mp1446.avg.cal f242.x
mv scia_25081998_230137541.egse_ltf.mp1446.log f243.x
mv scia_25081998_230137541.egse_ltf.mp1448.avg.cal f244.x
mv scia_25081998_230137541.egse_ltf.mp1448.log f245.x
mv scia_25081998_230137541.egse_ltf.mp1450.avg.cal f246.x
mv scia_25081998_230137541.egse_ltf.mp1450.log f247.x
mv scia_25081998_230137541.egse_ltf.mp1452.avg.cal f248.x
mv scia_25081998_230137541.egse_ltf.mp1452.log f249.x
mv scia_25081998_230137541.egse_ltf.mp1454.avg.cal f250.x
mv scia_25081998_230137541.egse_ltf.mp1454.log f251.x
mv scia_25081998_230137541.egse_ltf.mp1456.avg.cal f252.x
mv scia_25081998_230137541.egse_ltf.mp1456.log f253.x
mv scia_25081998_230137541.egse_ltf.mp1458.avg.cal f254.x
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mv scia_25081998_230137541.egse_ltf.mp1458.log f255.x
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mv scia_25081998_230137541.egse_ltf.mp1460.log f257.x
mv scia_25081998_230137541.egse_ltf.mp1462.avg.cal f258.x
mv scia_25081998_230137541.egse_ltf.mp1462.log f259.x
mv scia_25081998_230137541.egse_ltf.mp1464.avg.cal f260.x
mv scia_25081998_230137541.egse_ltf.mp1464.log f261.x
mv scia_25081998_230137541.egse_ltf.mp1466.avg.cal f262.x
mv scia_25081998_230137541.egse_ltf.mp1466.log f263.x
mv scia_25081998_230137541.egse_ltf.mp1468.avg.cal f264.x
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mv scia_25081998_230137541.egse_ltf.mp1472.avg.cal f268.x
mv scia_25081998_230137541.egse_ltf.mp1472.log f269.x
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mv scia_25081998_230137541.egse_ltf.mp1492.avg.cal f288.x
mv scia_25081998_230137541.egse_ltf.mp1492.log f289.x
mv scia_25081998_230137541.egse_ltf.mp1494.avg.cal f290.x
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mv scia_25081998_230137541.egse_ltf.mp1496.avg.cal f292.x
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mv scia_25081998_230137541.egse_ltf.mp1506.avg.cal f302.x
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mv scia_25081998_230137541.egse_ltf.mp1508.avg.cal f304.x
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mv scia_25081998_230137541.egse_ltf.mp1512.avg.cal f308.x
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mv scia_25081998_230137541.egse_ltf.mp1514.avg.cal f310.x
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mv scia_25081998_230137541.egse_ltf.mp1516.avg.cal f312.x
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mv scia_25081998_230137541.egse_ltf.mp1518.avg.cal f314.x
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mv scia_25081998_230137541.egse_ltf.mp1520.avg.cal f316.x
mv scia_25081998_230137541.egse_ltf.mp1520.log f317.x
mv scia_25081998_230137541.egse_ltf.mp1522.avg.cal f318.x
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mv scia_25081998_230137541.egse_ltf.mp1526.avg.cal f322.x
mv scia_25081998_230137541.egse_ltf.mp1526.log f323.x
mv scia_25081998_230137541.egse_ltf.mp1528.avg.cal f324.x
mv scia_25081998_230137541.egse_ltf.mp1528.log f325.x
mv scia_25081998_230137541.egse_ltf.mp1530.avg.cal f326.x
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mv scia_25081998_230137541.egse_ltf.mp1532.avg.cal f328.x
mv scia_25081998_230137541.egse_ltf.mp1532.log f329.x
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mv scia_25081998_230137541.egse_ltf.mp1546.avg.cal f342.x
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mv scia_25081998_230137541.egse_ltf.mp1558.avg.cal f354.x
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mv scia_25081998_230137541.egse_ltf.mp1566.avg.cal f362.x
mv scia_25081998_230137541.egse_ltf.mp1566.log f363.x
mv scia_25081998_230137541.egse_ltf.mp1568.avg.cal f364.x
mv scia_25081998_230137541.egse_ltf.mp1568.log f365.x
mv scia_25081998_230137541.egse_ltf.mp1570.avg.cal f366.x
mv scia_25081998_230137541.egse_ltf.mp1570.log f367.x
mv scia_25081998_230137541.egse_ltf.mp1572.avg.cal f368.x
mv scia_25081998_230137541.egse_ltf.mp1572.log f369.x
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mv scia_25081998_230137541.egse_ltf.mp1576.avg.cal f372.x
mv scia_25081998_230137541.egse_ltf.mp1576.log f373.x
mv scia_25081998_230137541.egse_ltf.mp1578.avg.cal f374.x
mv scia_25081998_230137541.egse_ltf.mp1578.log f375.x
mv scia_25081998_230137541.egse_ltf.mp1580.avg.cal f376.x
mv scia_25081998_230137541.egse_ltf.mp1580.log f377.x
mv scia_25081998_230137541.egse_ltf.mp1582.avg.cal f378.x
mv scia_25081998_230137541.egse_ltf.mp1582.log f379.x
mv scia_25081998_230137541.egse_ltf.mp1584.avg.cal f380.x
mv scia_25081998_230137541.egse_ltf.mp1584.log f381.x
mv scia_25081998_230137541.egse_ltf.mp1586.avg.cal f382.x
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mv scia_25081998_230137541.egse_ltf.mp1594.avg.cal f390.x
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mv scia_25081998_230137541.egse_ltf.mp1604.avg.cal f400.x
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mv scia_25081998_230137541.egse_ltf.mp1606.avg.cal f402.x
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mv scia_25081998_230137541.egse_ltf.mp1626.avg.cal f422.x
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π  scia_25081998_230137541.egse_ltf.mp1628.avg.cal f424.x
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mv scia_25081998_230137541.egse_ltf.mp1636.avg.cal f432.x
mv scia_25081998_230137541.egse_ltf.mp1636.log f433.x
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mv scia_25081998_230137541.egse_ltf.mp1640.avg.cal f436.x
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mv scia_25081998_230137541.egse_ltf.mp1646.avg.cal f442.x
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mv scia_25081998_230137541.egse_ltf.mp1648.avg.cal f444.x
mv scia_25081998_230137541.egse_ltf.mp1648.log f445.x
mv scia_25081998_230137541.egse_ltf.mp1650.avg.cal f446.x
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mv scia_25081998_230137541.egse_ltf.mp1650.log f447.x
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mv scia_25081998_230137541.egse_ltf.mp1654.avg.cal f450.x
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mv scia_25081998_230137541.egse_ltf.mp1656.log f453.x
mv scia_25081998_230137541.egse_ltf.mp1658.avg.cal f454.x
mv scia_25081998_230137541.egse_ltf.mp1658.log f455.x
mv scia_25081998_230137541.egse_ltf.mp1660.avg.cal f456.x
mv scia_25081998_230137541.egse_ltf.mp1660.log f457.x
mv scia_26081998_011304159.dat f458.x
mv scia_26081998_032206433.dat f459.x
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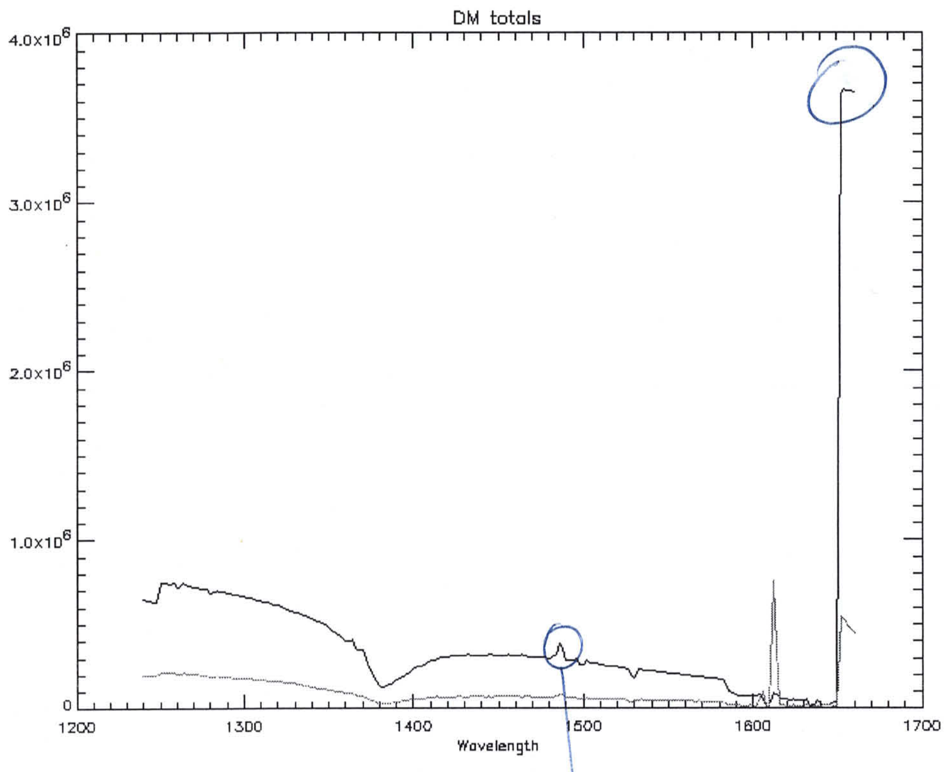
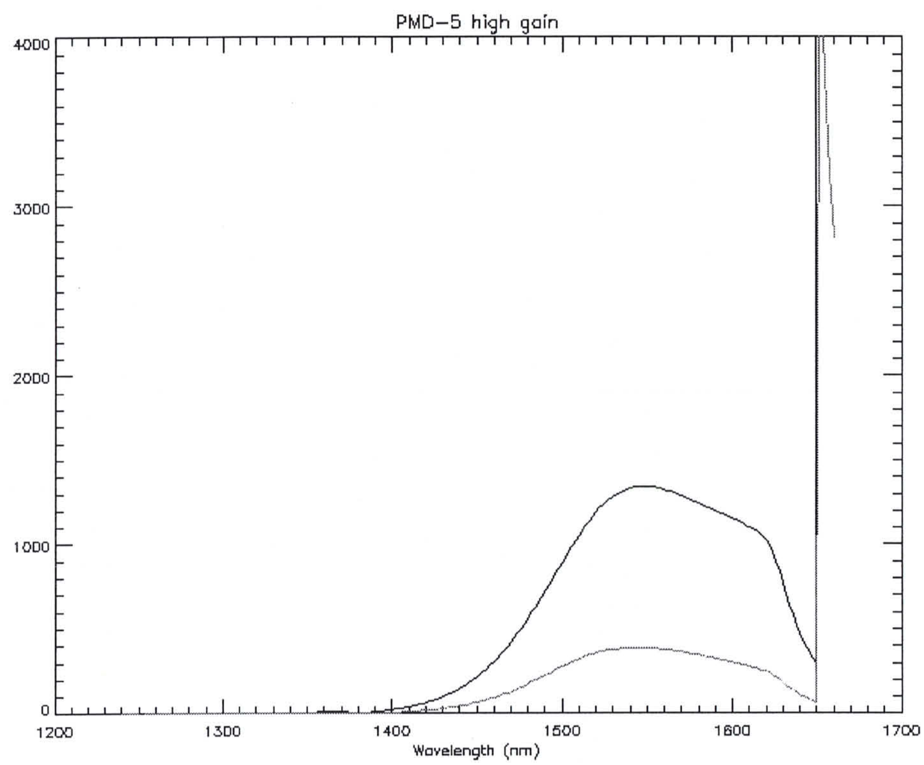
Compare

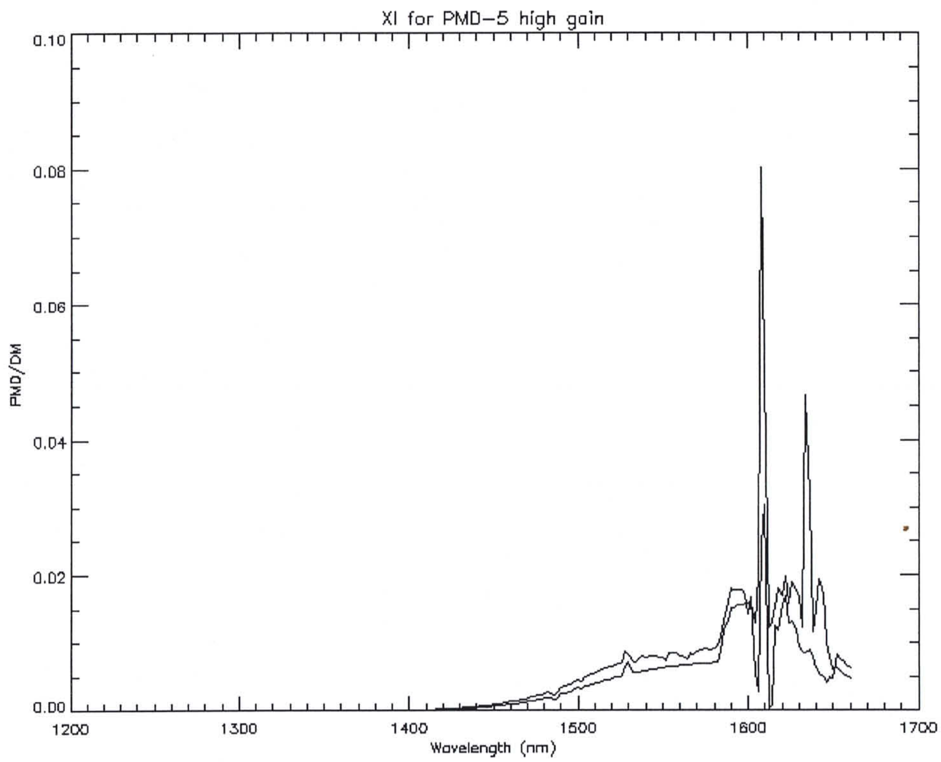
Xl-VisIR-III 2 with 5

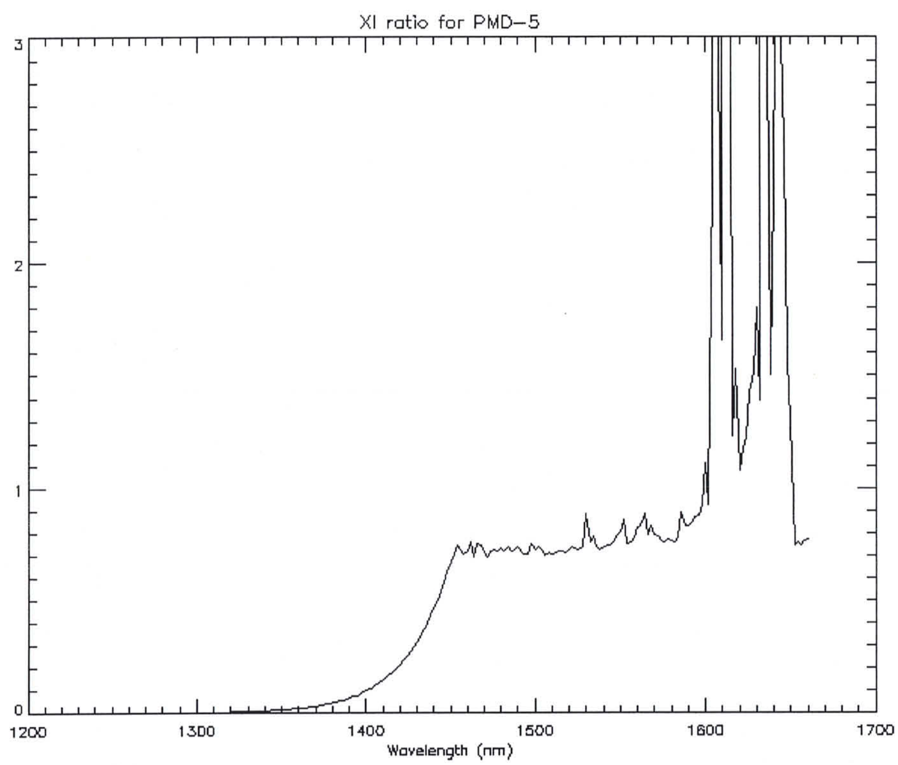


Saturated

dead/bad pixel pair : signal from one pixel seems to end up in other pixel....


PMD-5 high gain
4000
3000
2000
1000
0
1200
1300
1400
1500
1600
1700
Wavelength (nm)


XI for PMD-5 high gain
0.10
0.08
0.06
0.04
0.02
0.00
PMD/DM
1200
1300
1400
1500
1600
1700
Wavelength (nm)


XI ratio for PMD-5
3
2
1
0
1200
1300
1400
1500
1600
1700
Wavelength (nm)

```
; IDL Version 5.1 (sunos sparc)
; Journal File for scia@scia6
; Working directory: /disk1/scia/cal/idl
; Date: Wed Aug 26 18:58:24 1998
; by Jos Groote Schaarsberg
; calculate ratio of two (repeated) XSI measurements
```

@jos6

```
print
print, 'Ratio will be calculated for xsi A / xsi B'
print, 'Software has been used for XSI-VisIR-III subdirs "2"/"5"'
print, 'First select .data-file for set A'
print
marion10 , seta
print
print, 'Select .data-file for set B'
marion10 , setb
window, 0
plot, seta(0,*), seta(1,*),title="DM totals", xtitle='Wavelength'
oplot, setb(0,*), setb(1,*), color = 150


asize = size(seta)
anumber = asize(2)
xsia=dblarr(7,anumber)
for i=0,6 do xsia(i,*)=seta(2*i+3,*)/seta(1,*)
bsize=size(setb)
bnumber = bsize(2)
xsib=dblarr(7,bnumber)
for i=0,6 do xsib(i,*)=setb(2*i+3,*)/setb(1,*)

pmdselect=5

window, 1
plot, seta(0,*), seta(2*pmdselect+1,*), $
      title="PMD-"+strtrim(string(pmdselect),2) + " high gain", $
      xtitle='Wavelength (nm)', $
      yrange=[0,4e3]
oplot, setb(0,*), setb(2*pmdselect+1,*), color = 150


window, 2
plot, seta(0,*), xsia(pmdselect-1,*), $
      title="XI for PMD-"+strtrim(string(pmdselect),2) + " high gain", $
      xtitle='Wavelength (nm)', $
      ytitle='PMD/DM'
oplot, setb(0,*), xsib(pmdselect-1,*)

smallvalueindex=where(xsib(pmdselect-1,*) lt 0.001)
xsib(pmdselect-1,smallvalueindex) = 0.001
xsiratio = xsia(pmdselect-1,*) / xsib(pmdselect-1,*)
window, 3
plot, seta(0,*), xsiratio, $
      title="XI ratio for PMD-" + strtrim(string(pmdselect),2), $
      xtitle='Wavelength (nm)', $
      yrange=[0,3]

help, seta
help, setb
help, xsia
help, xsib
help, xsiratio
```

```
; IDL Version 5.1 (sunos sparc)
; Journal File for scia@scia6
; Working directory: /disk1/scia/cal/idl
; Date: Tue Aug 25 15:25:38 1998
; kolom 0        = golflengte.
; kolom 1        = DM total value.
; kolom 2,3      = Pmd1 low,high.
; kolom 4,5      = Pmd2 low,high.
; kolom 6,7      = Pmd3 low,high.
; kolom 8,9      = Pmd4 low,high.
; kolom 10,11    = Pmd5 low,high.
; kolom 12,13    = Pmd6 low,high.
; kolom 14,15    = Pmd7 low,high.
; filename = marion10.pro
; by Marion Stoppelenburg


PRO Marion10, array1

        NumberOfParameters = N_Params()
        if (NumberOfParameters EQ 0) then begin
                print
                print, '****************************************************'
                print, 'syntax is: '
                print, 'marion10, aap'
                print, 'where "aap" is the result array1'
                print, '****************************************************'
                print
                return
        endif

var1=dblarr(16)
cpath = getenv ('CALDATADIR')
filename=pickfile(title='Select a combined.data file with 16 data columns', $
                  filter='*.[Dd][Aa][Tt][Aa]', path=cpath, /read)

teller =0
openr,lun,filename,/get_LUN
readf,lun,var1
var2=var1
teller=teller+1
while not eof(lun) do begin
        readf,lun,var1
        var2=[var2,var1]
        teller=teller+1
endwhile

Free_LUN,lun
var1=dblarr(16,teller)
for i=0,teller-1 do var1(*,i)=var2(16*i:16*i+15)
array1=var1
print
print, 'Array contains',teller, ' rows'
print

end
```

LOG SHEET SCHIAMACHY CALIBRATION

Date/Time	Description of action	Measurement directory
27-8-98 R.S.	Comments on XI-Vis IR-111 2/5	
	Raw data DM & PMD look OK. DMDark signal varies ± 100 counts between ~~re~~ records (ch 6), no trend is visible. Peak signal typically ~10^6. Background noise is not stable, however; variations between 50-200 counts peak to peak. PMD high gain signal shows... some small modulation and occasional small jump. ~~[illegible]~~ Sampling of the signal is bad, a possible source for errors is the averaging of the (discretely) sampled signal, and comparing this at the 0.1 count level. This still shouldn't have any effect on the ξ of 10%	
	PMD Electr. Temp. (HK data field 61) is 0,005 degrees lower for file 5 than for 2. What is $\frac{d(\text{PMD-sensitivity})}{dT}$ @ -18°C? Not likely to be responsible for 10% effect...	

LOG SHEET SCHIAMACHY CALIBRATION

Date/Time	Description of action	Measurement directory
26-8 14:56 UTC	Running ETA-IR (test) Because instrument was off the temperature has dropped: channel 1 2 3 4 5 6 7 8 was 219.39 218.93 232.10 231.04 230.03 216.46 159.72 156.50 now 219.24 218.77 231.70 230.63 229.71 216.22 158.80 155.53 first crashed } temperatures second finished } too low	

Formal Run of Measurement

(Measurement ID) ETA_1R

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	13									
Repetitions	5									

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	16	4						
2a	16	4						
3	0.5	8						
4	0.25	16						
5	0.25	16						
6	0.03125	64						
7	0.0625	64						
8	0.25	16						
State ID								

ETA-1R at high temperatures

intended date 18-8-1998

Temp toolow

<crashed>

Stimuli Settings for Existing Blocks in Measurement

Block No	Stimuli Setup ID	PPC [deg]	Polorizer [deg]	Shutter open/close	Acquisition Time [s]	Lambda [nm] Start	Stop	Step	Repetition Factor	Message	OS Setup Time [s]
1	2	15	171.6	close	1	240	240	0	2	047	12
2.1	2	15	171.6	open	1	240	240	0	[illegible]	wsd#	20
2.2	2	15	85.4	open	1	240	240	0	2	wpd#	20
3.1	2	5	171.6	open	1	240	240	0	2	wsb#	20
3.2	2	5	85.4	open	1	240	240	0	2	wpb#	20
4	2	5	85.4	close	1	240	240	0	2	042	8

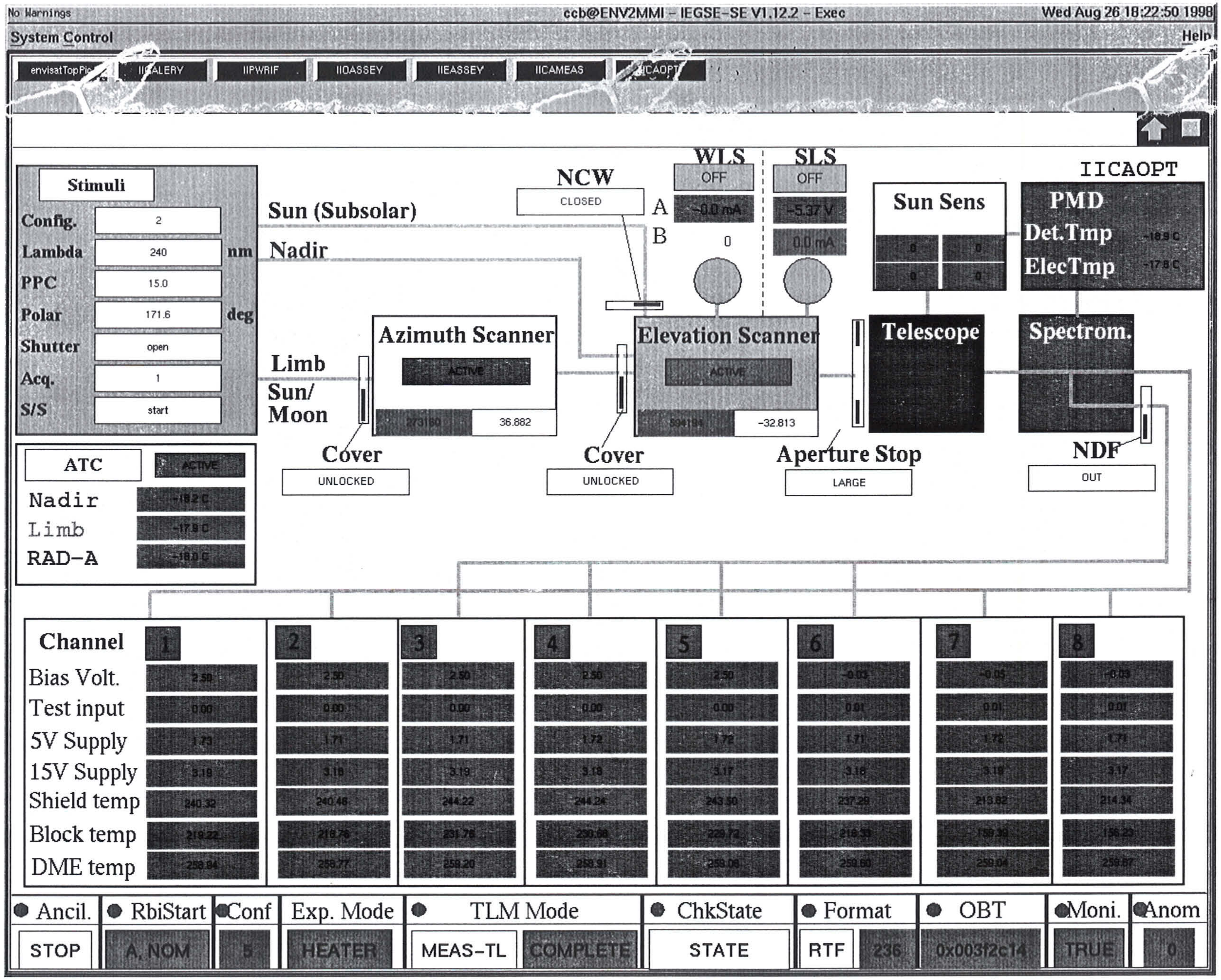
Measurement Data Description

Test Purpose	UID 8
Remark	repeated msm
Data Directory	0238_14.24.00_ETA_1R

Signatures

	Date	Signature
Issued	26-8	TOS
< Performed		

~~10.41.39~~



Bitmap Dump (1314923 bytes) at Wed Aug 26 18:23:21 GMT 1998

Formal Run of Measurement

(Measurement ID) ETA_IR

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	13									
Repetitions	5									

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

Channel	PET [s] or Hz	Co-Adding	PET [s] or Hz	Co-Adding	PET [s] or Hz	Co-Adding	PET [s] or Hz	Co-Adding
1a	64	1						
1b	64	1						
2b	16	4						
2a	16	4						
3	0.5	8						
4	0.25	16						
5	0.25	16						
6	0.03125	64						
7	0.0625	64						
8	0.25	16						
State ID								

ETA-IR at high temperatures

intended date 18-8-1998

successful

Stimuli Settings for Existing Blocks in Measurement

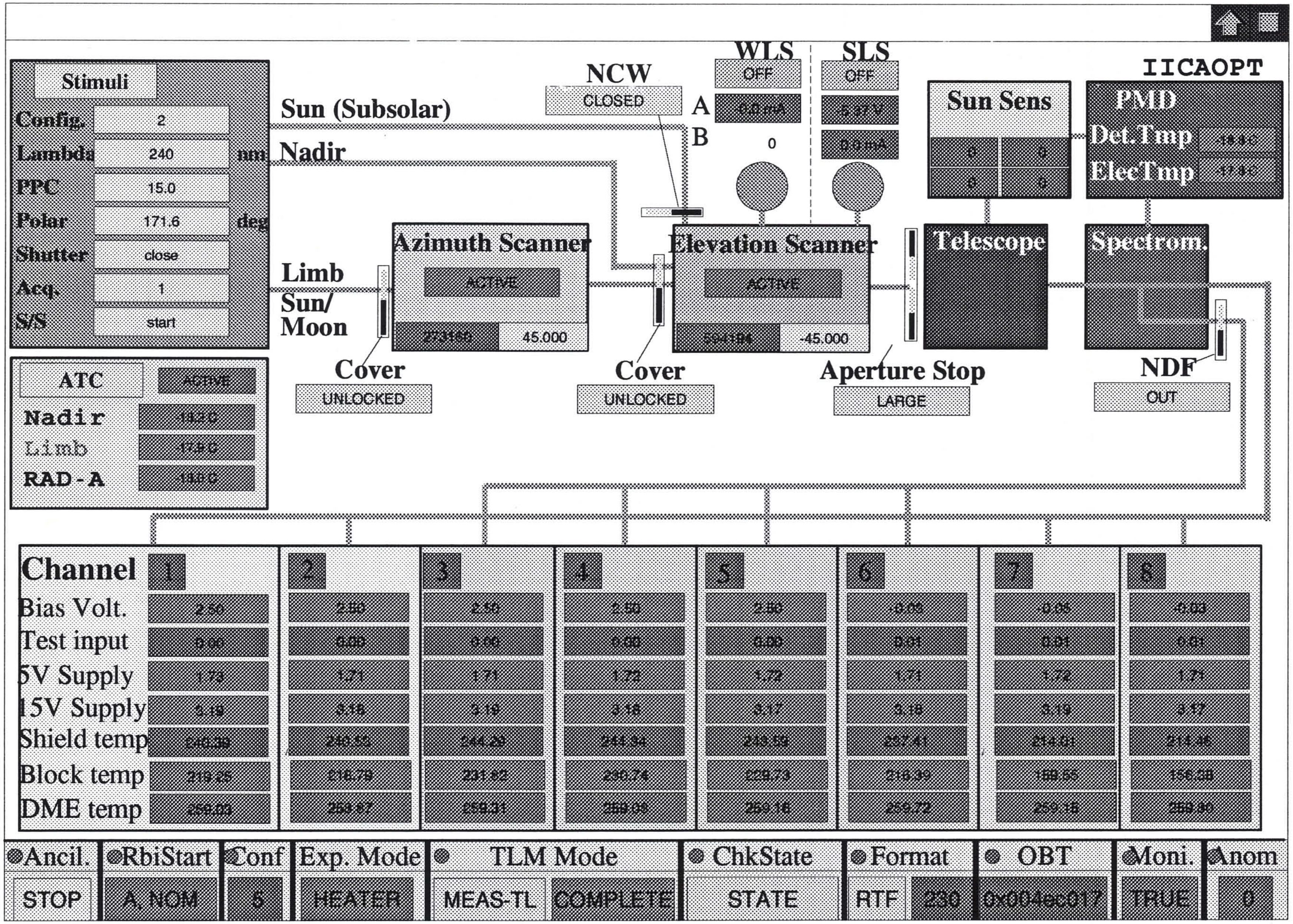
Block No	Stimuli Setup ID	PPC [deg]	Polarizer [deg]	Shutter open/close	Acquisition Time [s]	Lambda [nm] Start	Stop	Step	Repetition Factor	Message	OS Setup Time [s]
1	2	15	171.6	close	1	240	240	0	2	047	12
2.1	2	15	171.6	open	1	240	240	0	2	wsd#	20
2.2	2	15	85.4	open	1	240	240	0	2	wpd#	20
3.1	2	5	171.6	open	1	240	240	0	2	wsb#	20
3.2	2	5	85.4	open	1	240	240	0	2	wpb#	20
4	2	5	85.4	close	1	240	240	0	2	042	8

Measurement Data Description

Test Purpose	UIP 8
Remark	repeated msm 2
Data Directory	0238_16.45.23_ETA_IR

Signatures

	Date	Signature
Issued	26-8	TOS
Performed	26.8.	[illegible]



IICAOPT: PostScript Picture (78004 bytes) at Wed Aug 26 19:29:35 GMT 1998

Formal Run of Measurement

(Measurement ID) ETA_IR

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)

NO CRASH .. BUT CHANGE IN TEMPERATURES DURING MEASUREM.
⇒ DATA = NO GOOD !!

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	13									
Repetitions	5									

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	16	4						
2a	16	4						
3	0.5	8						
4	0.25	16						
5	0.25	16						
6	0.03125	64						
7	0.0625	64						
8	0.26	16						
State ID								

ETA-IR at high temperatures

~~intended date 18-8-1998~~

~~[illegible]~~ successful

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	2	15	171.6	close	1	240	240	0	2	041	12
2.1	2	15	171.6	open	1	240	240	0	2	wsd#	20
2.2	2	15	85.4	open	1	240	240	0	2	wpd#	20
3.1	2	5	171.6	open	1	240	240	0	2	wsb#	20
3.2	2	5	85.4	open	1	240	240	0	2	wpb#	20
4	2	5	85.4	close	1	240	240	0	2	042	8

Measurement Data Description

Test Purpose	UIP 8
Remark	repeated msm 2
Data Directory	0238_16.45.29_ETA_IR

Signatures

	Date	Signature
Issued	26-8	[illegible]
Performed	26.8.	[illegible]

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Dion Oude Lansink 27-8-'98	
	What's the name of the (main) data input files generated by the EGSE? `(*.dat)`	scia-26001998-175056224.dat	(A)
	Setup a three-window configuration on your SUN.		see course descr.

Cnstr directory	`cd ~/DATA-DIR/ETA-IR/ ; 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
	directory name is:
		4
		
		5
		Y / N
		~/DATA-DIR/ETA-IR/<C>
			Note: In window DATA-DIR
			(B)
			
			(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`
		
		A.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` size:	146 Kb	should be approx 150Kb
	S-pol file: `ls -l *ws*.avg.cal` size:	146 Kb	should be approx 150Kb
	P-pol file:		

`ls -l *.wp*.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, 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 P file `*wp*.avg.cal` should resemble white light source: Y / N

Contents S file `*ws*.avg.cal.ps` and `*wp*.avg.cal.ps` should resemble white light source: Y / N

Contents of `*rel_std.cal.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

ETA processing

Run ETA

`idl do_eta` — In IDL window

Check ETA

`ls -l *.p1.* | more` — In DATA-DIR window

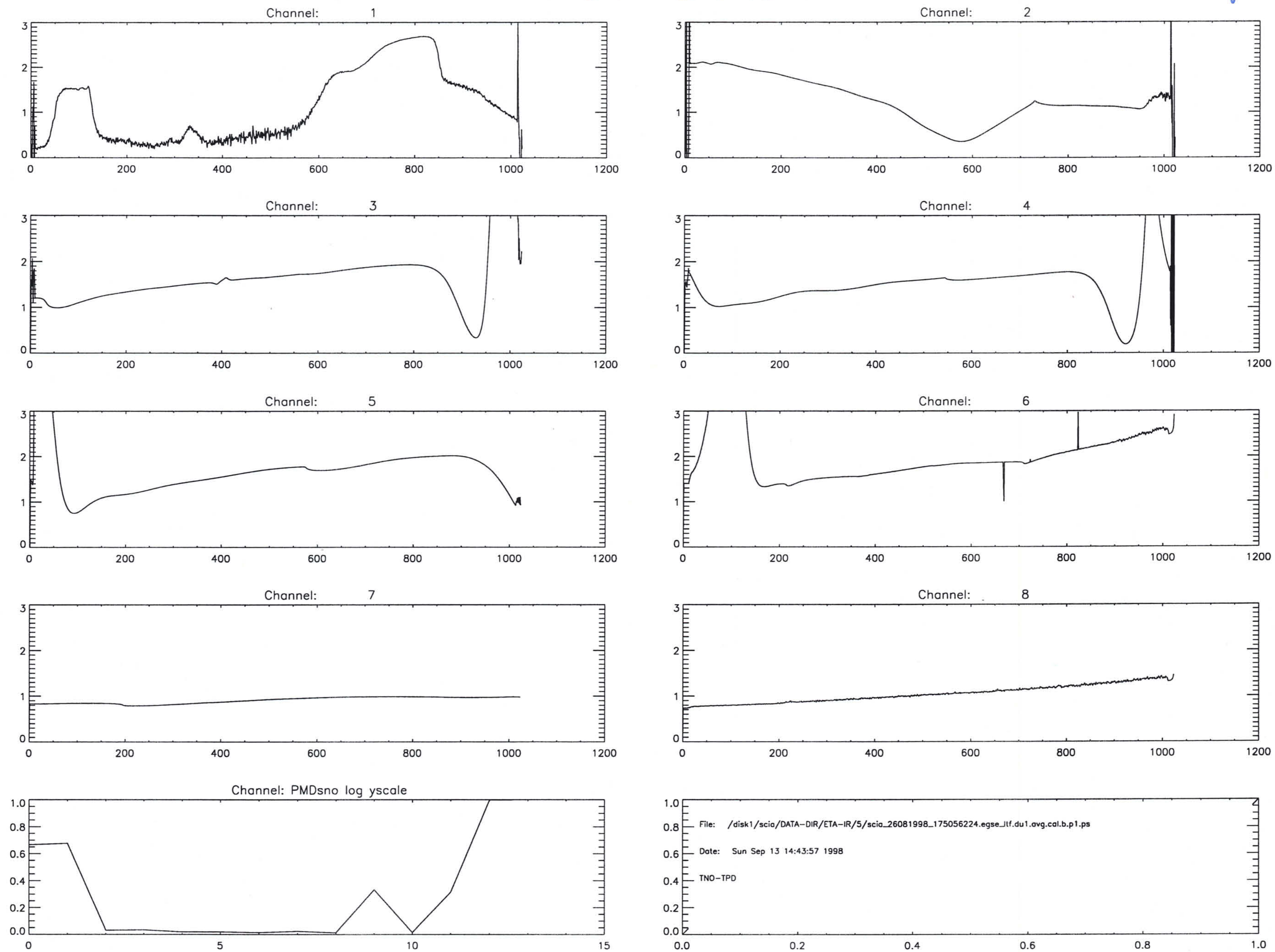
Size of file `<D>.du*.avg.cal.[b|d].p1.cal`: 146 kB — should be approx 150Kb

Size of file `<D>.du*.avg.cal.[b|d].p1.log` cal ??: 901 B

Check ETA visually	Size of file <D>.du*.avg.cal.[b|d].p1.ps	139 kB	
	lpr -P<printer> <D>.*du.*.p1.cal.ps		
	Value of ETA in each channel (pixel 300 -- 800) between 0 and 3? (In channels 5-8).	Y / N	
	Value of ETA resembles expected ETA (see [Predicted PFM calibration results])?	Y / N	
	Add postscript images to logbook, done	Y / N	
Print logfiles	lpr -P<printer> <D>.du*.p1.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	Dion Oude Lansink	
	Date and time	27-8-'98 09.15 UTC	
	Signature		

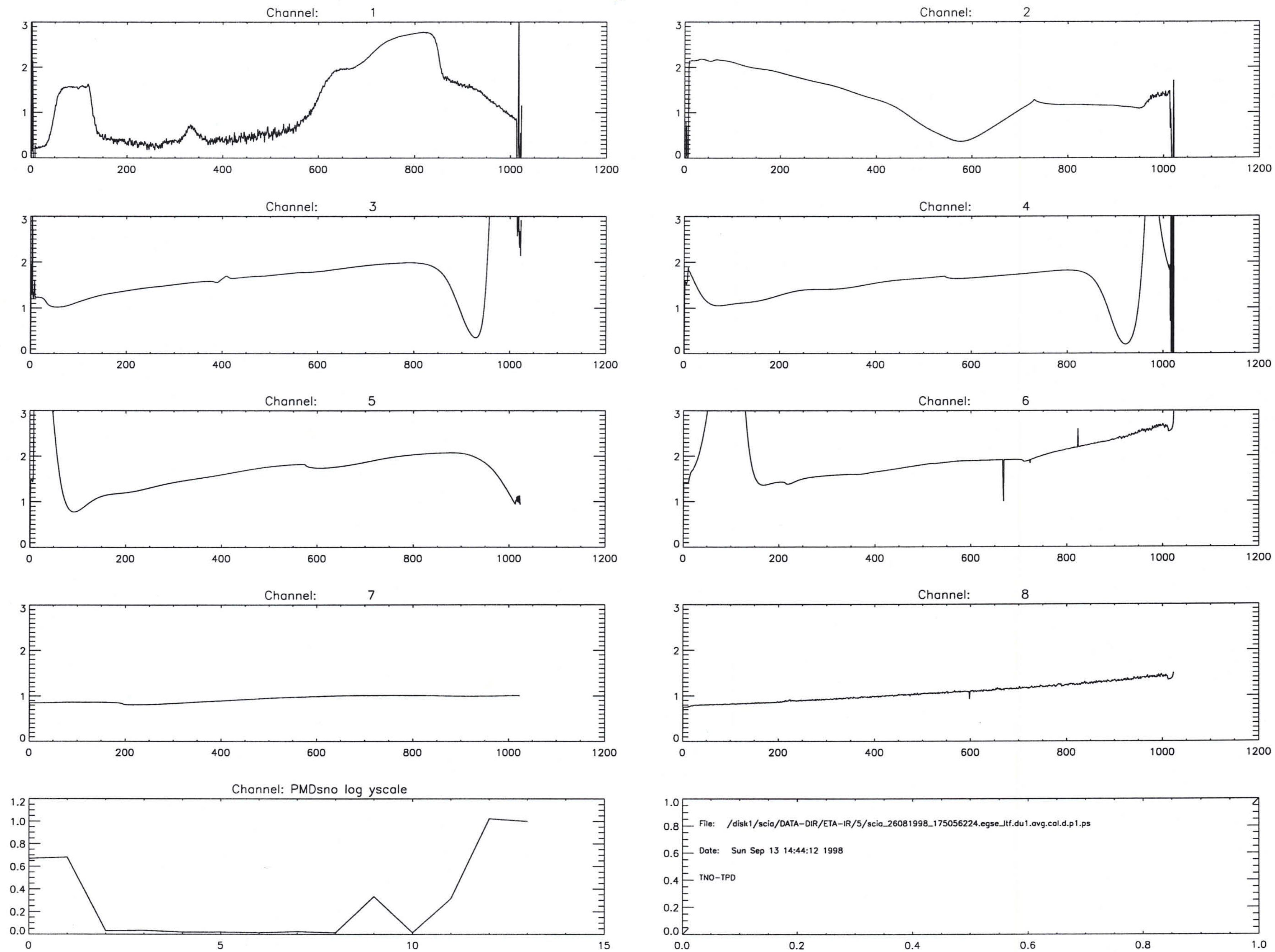
ETA -IR 15

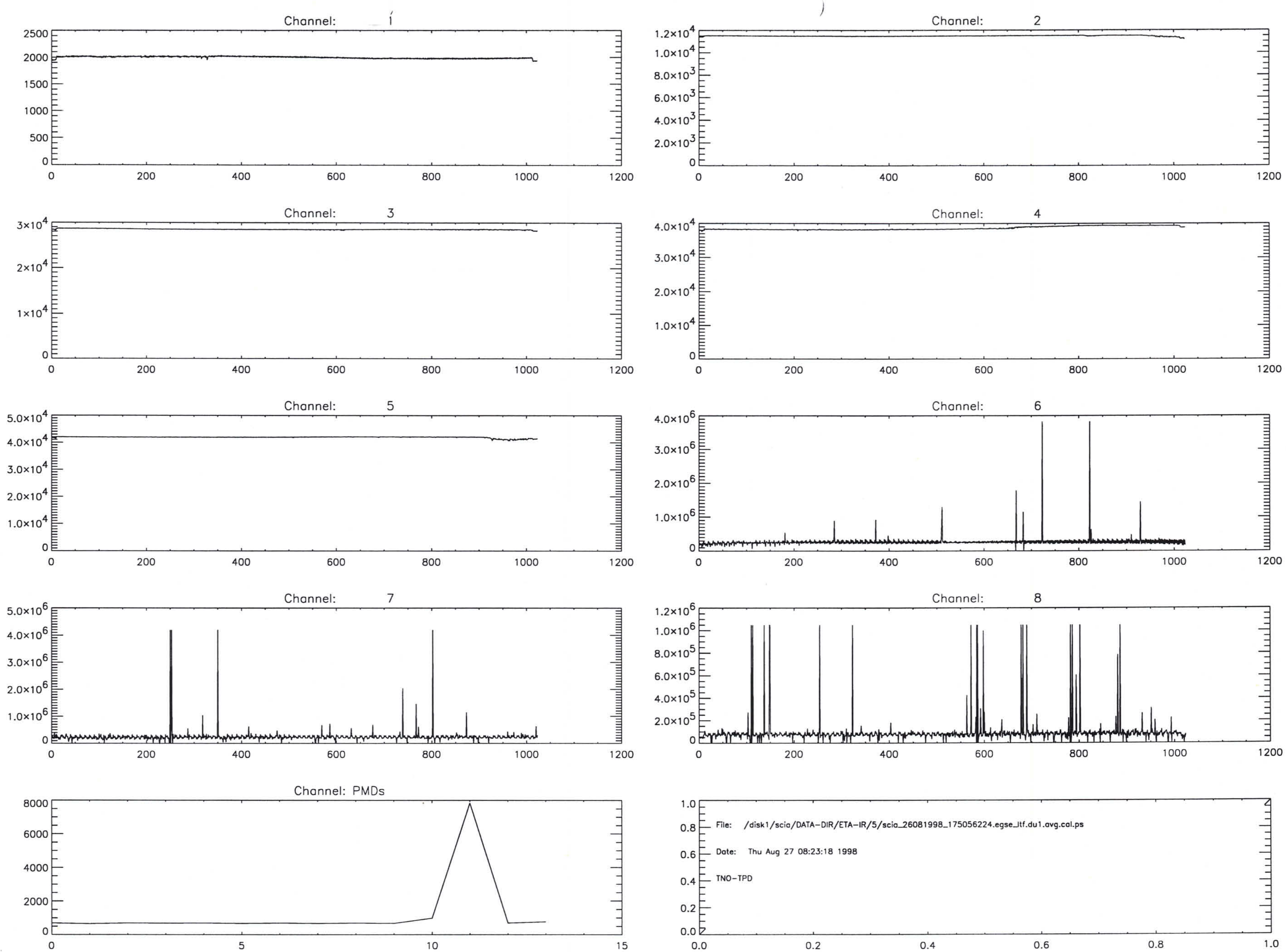
12-sept



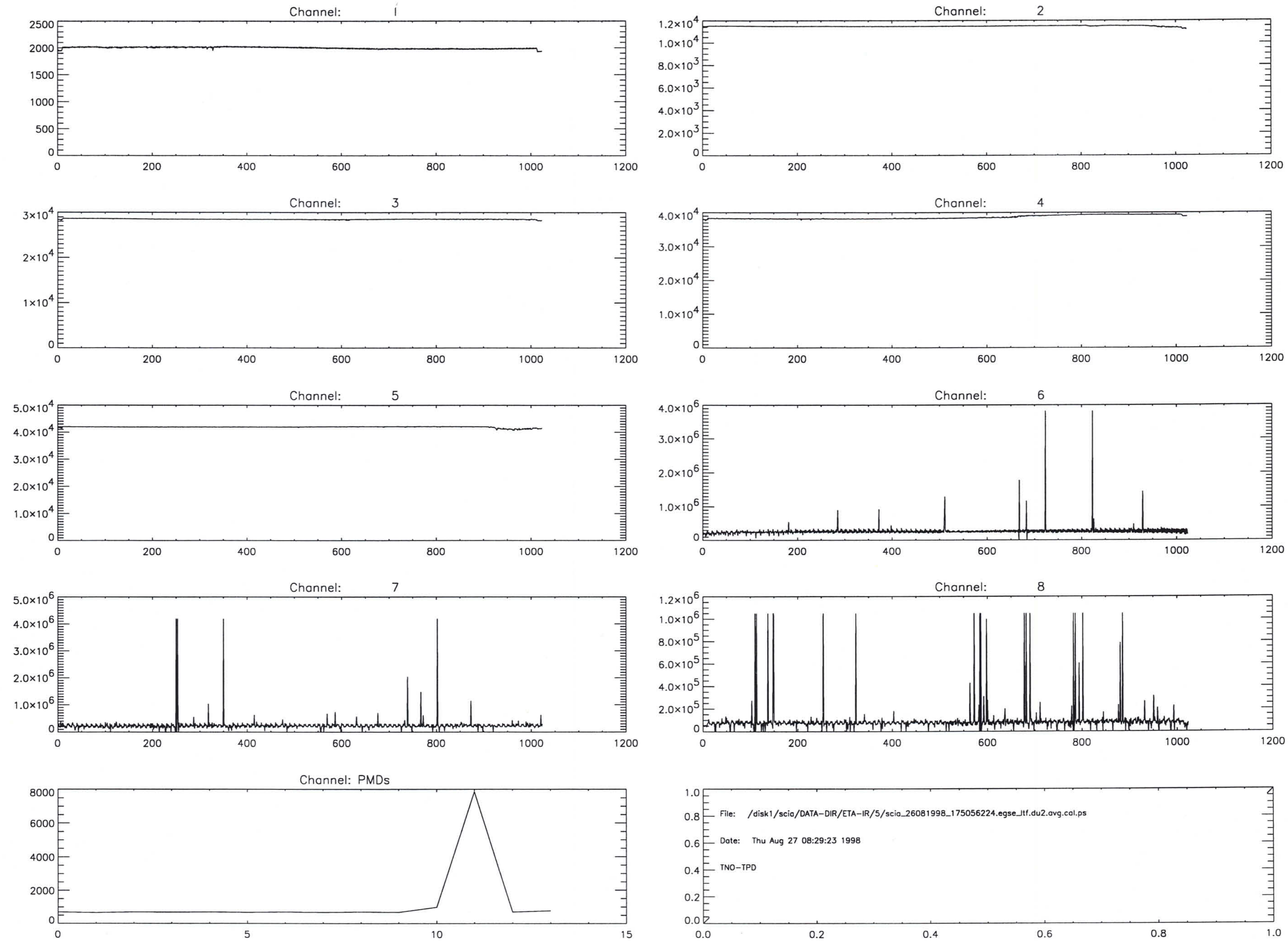
ETA-IR 1′

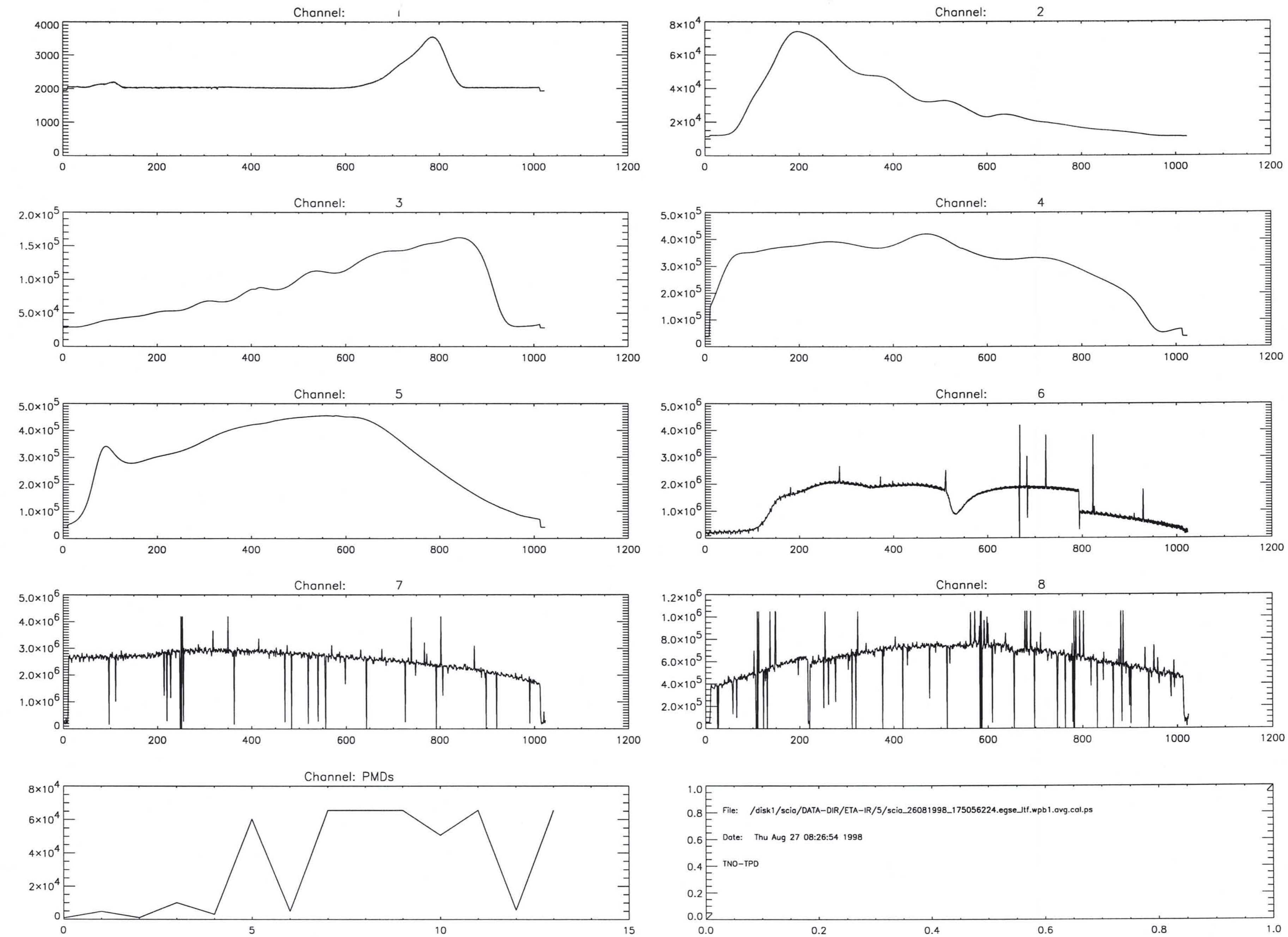
12 Sept

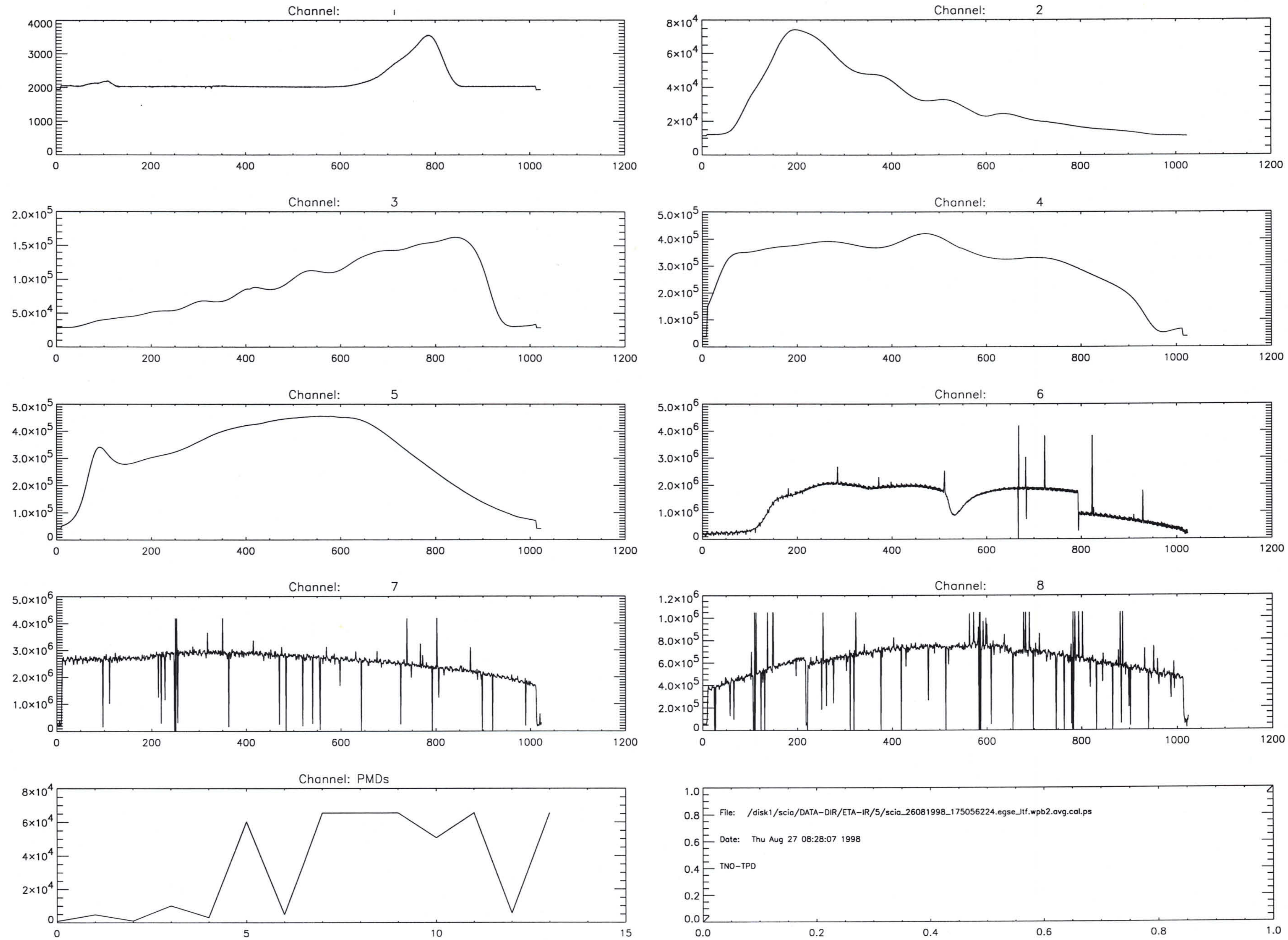




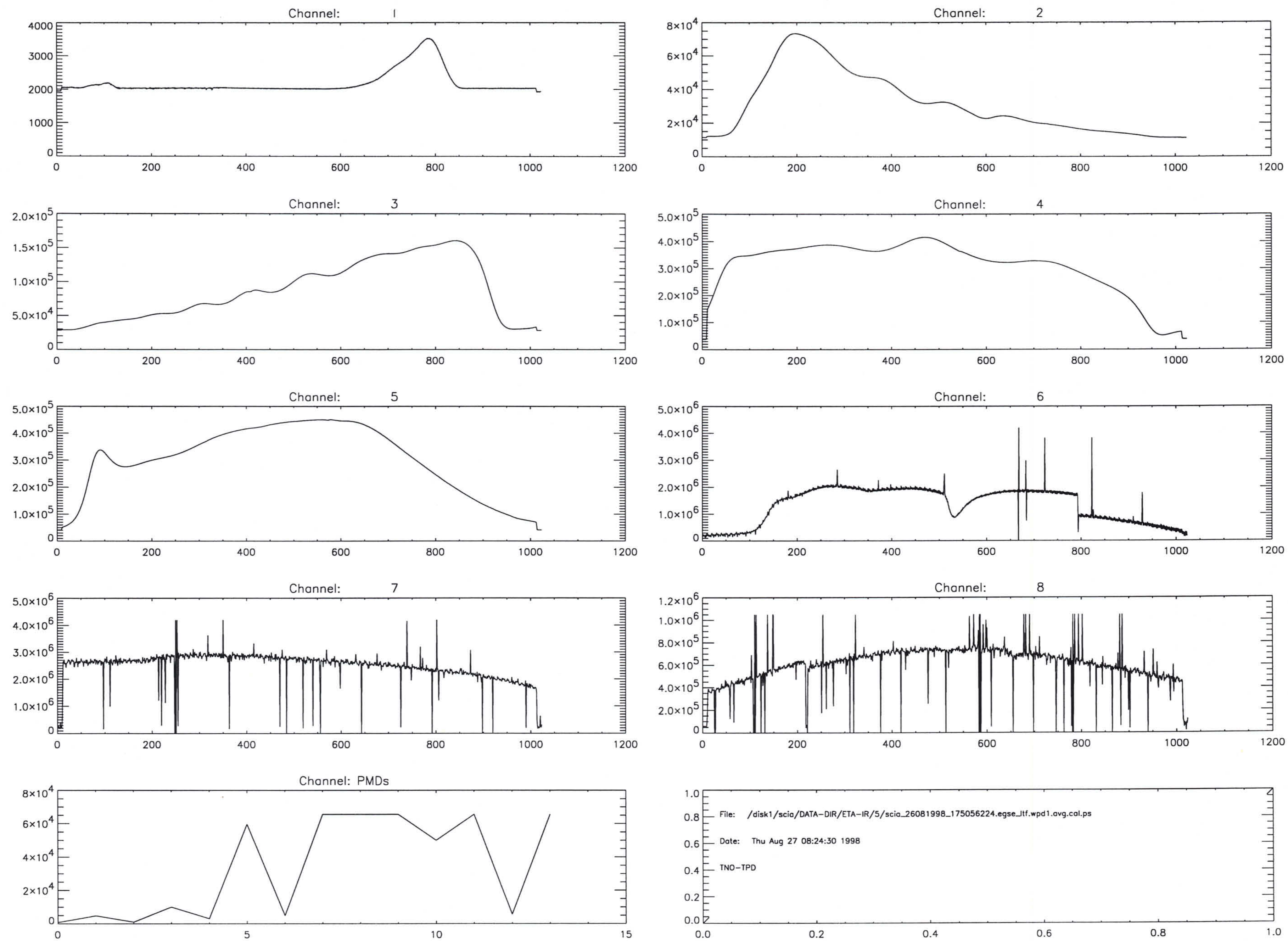
Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.du1.avg.cal.ps
Date: Thu Aug 27 08:23:18 1998
TNO-TPD

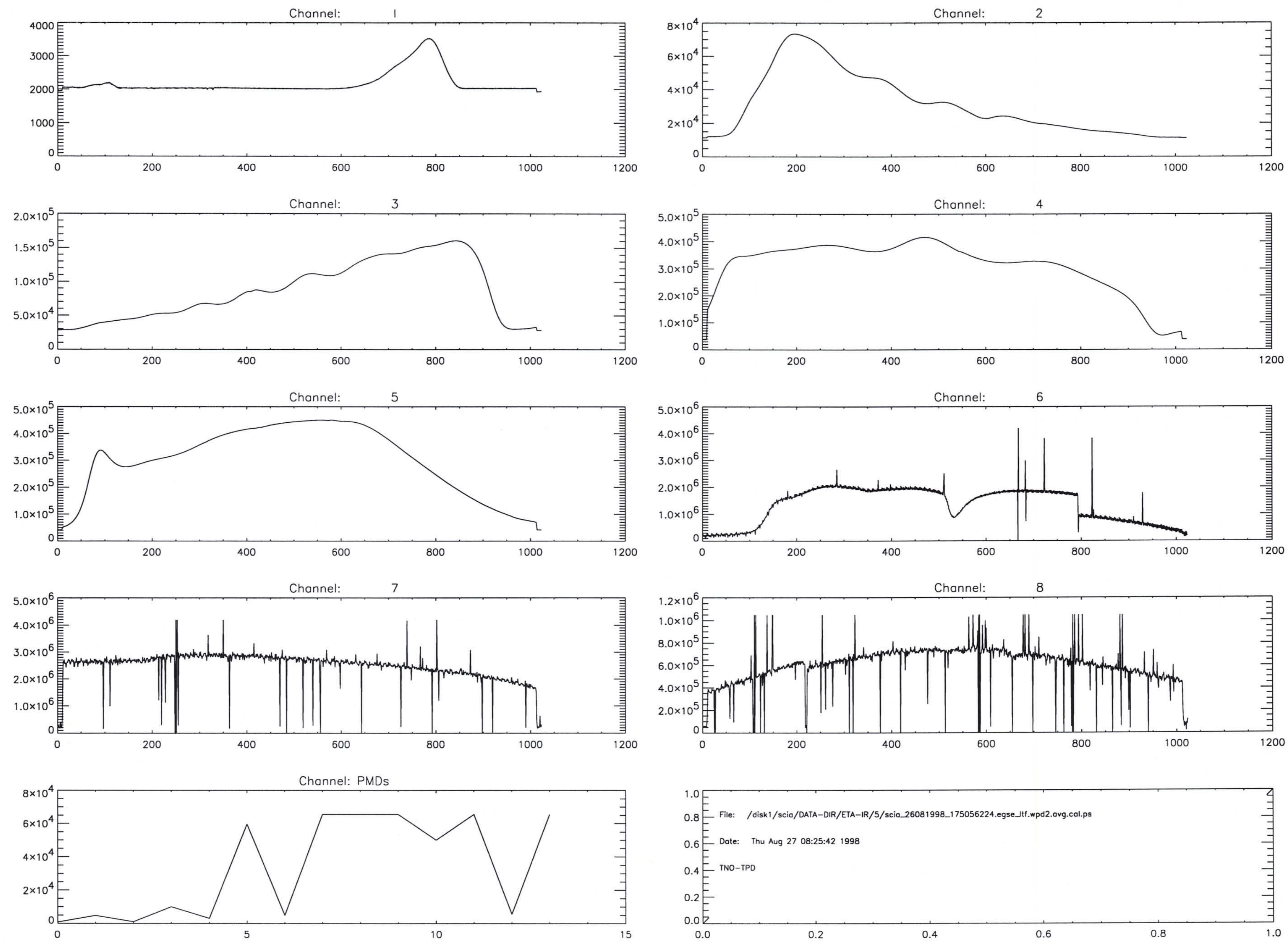

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.du2.avg.cal.ps
Date: Thu Aug 27 08:29:23 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.wpb1.avg.cal.ps
Date: Thu Aug 27 08:26:54 1998
TNO-TPD

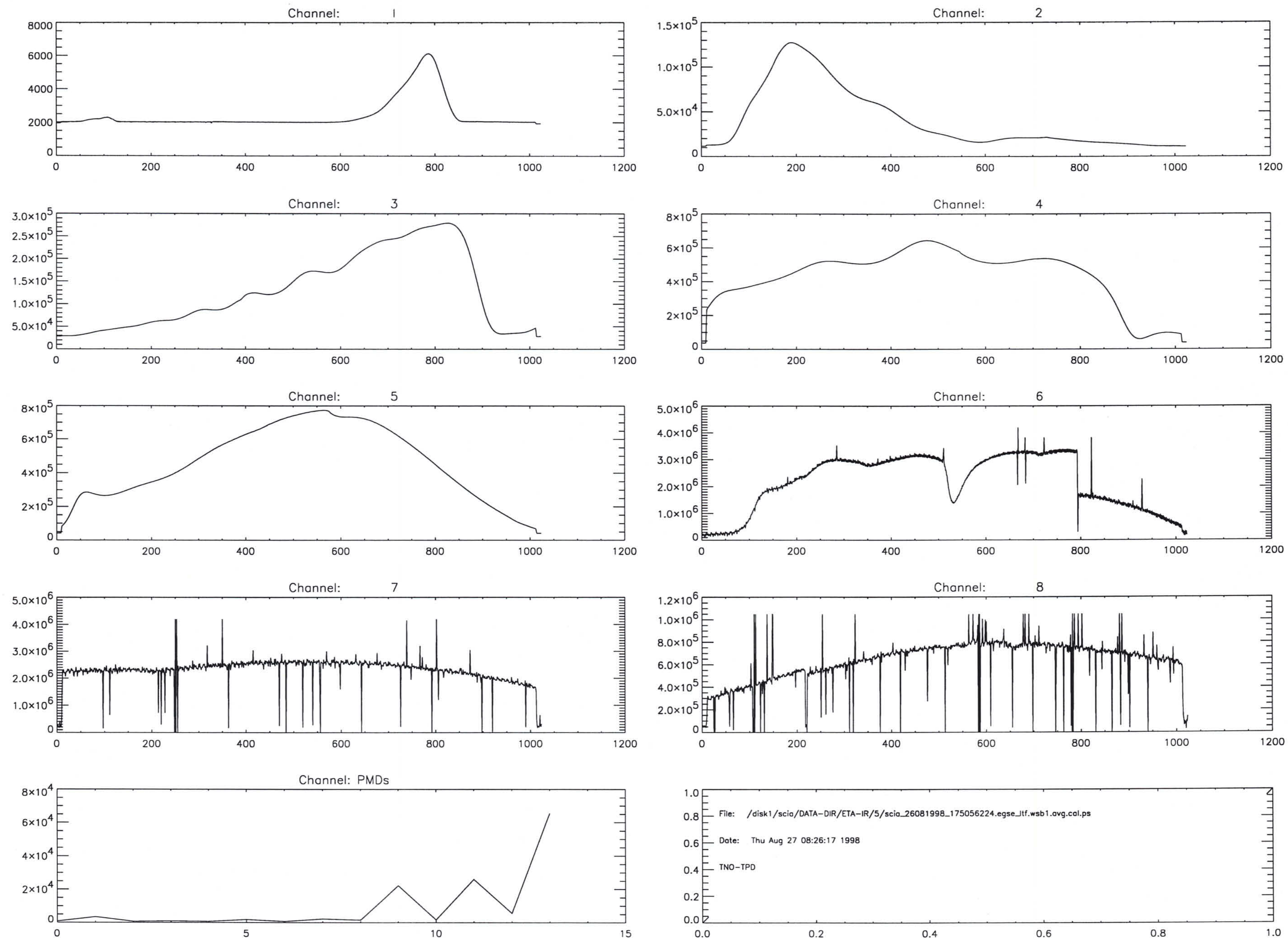


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.wpb2.avg.cal.ps
Date: Thu Aug 27 08:28:07 1998
TNO-TPD

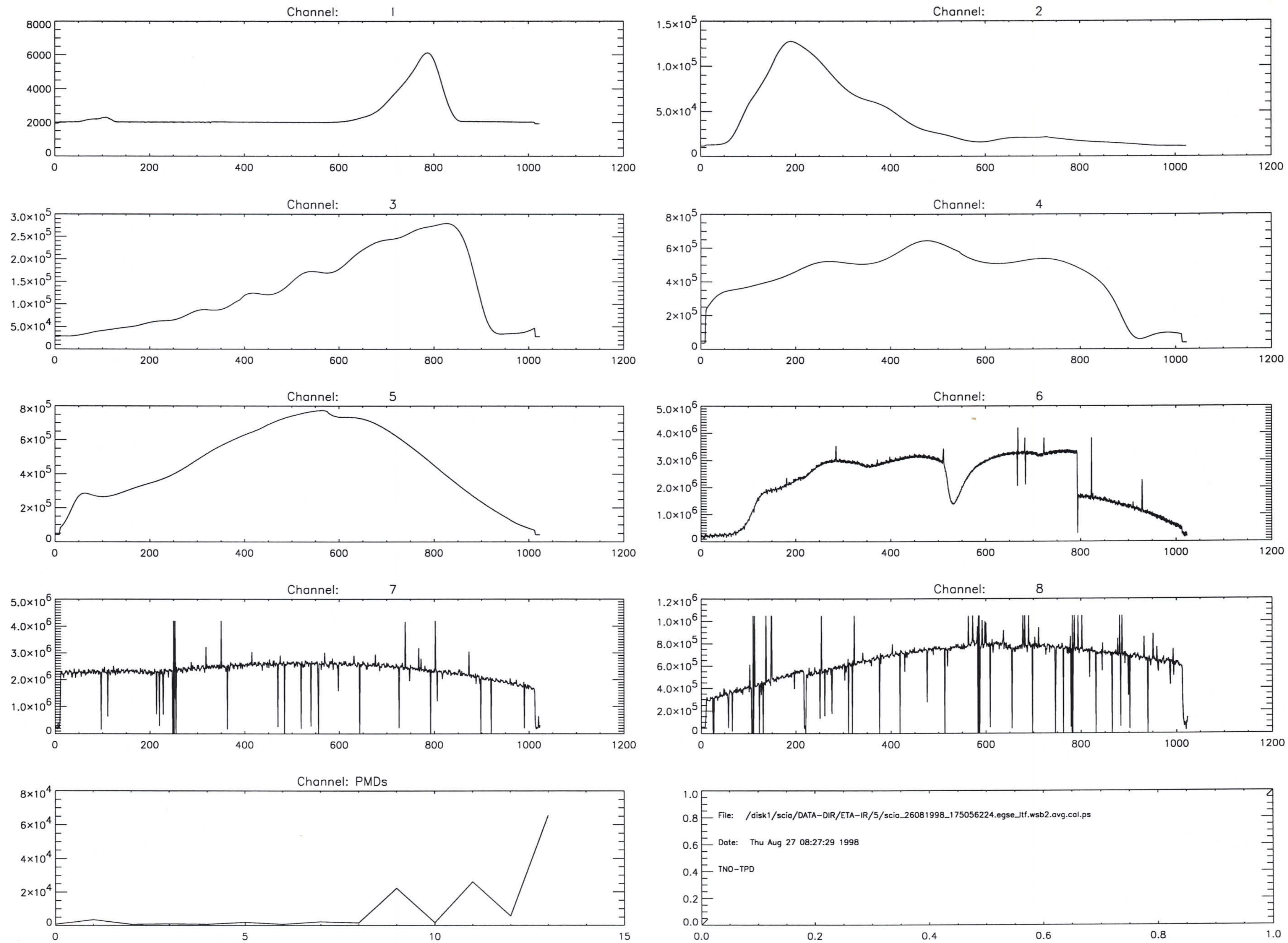

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.wpd1.avg.cal.ps
Date: Thu Aug 27 08:24:30 1998
TNO-TPD



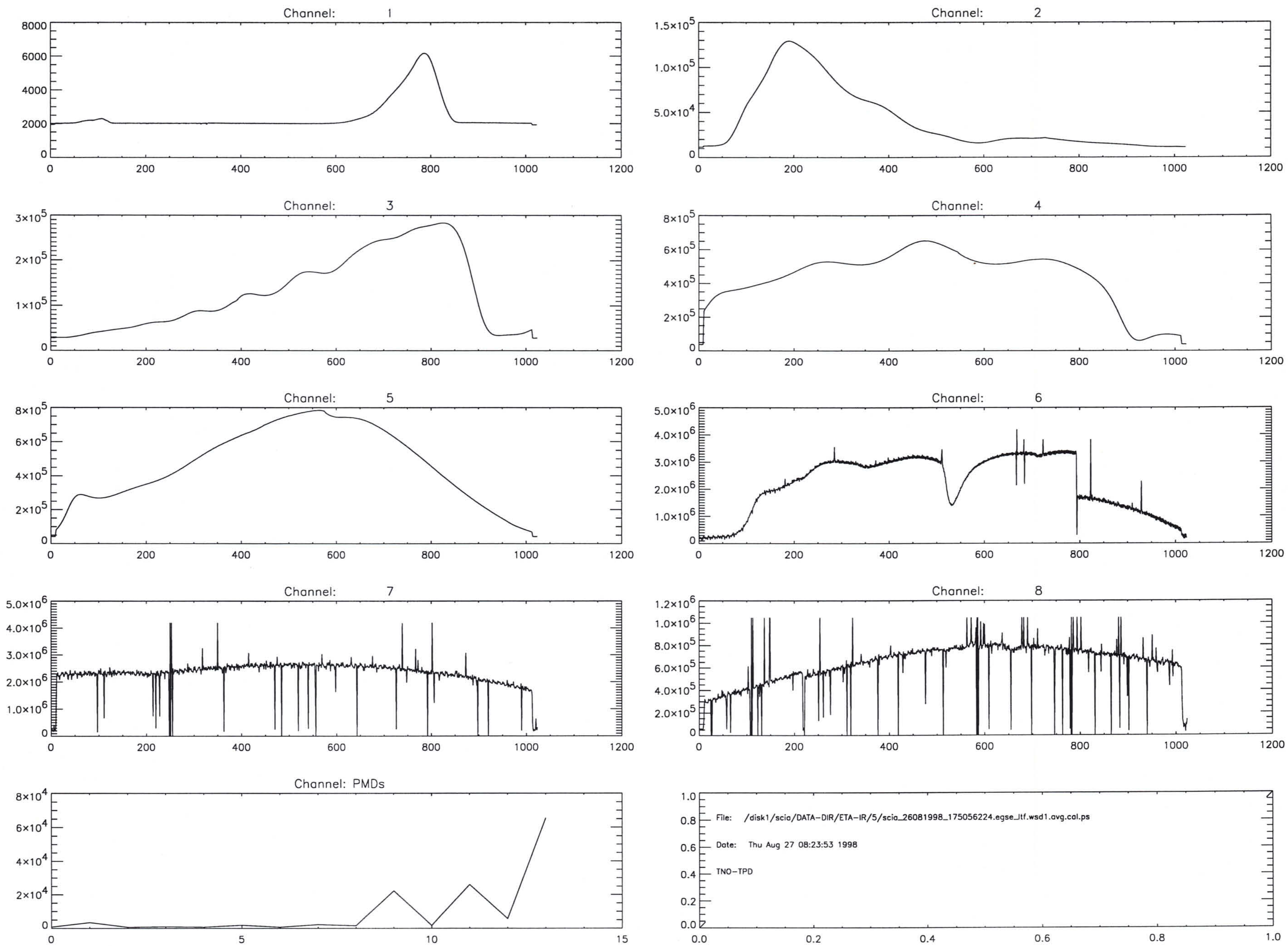
Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.wpd2.avg.cal.ps
Date: Thu Aug 27 08:25:42 1998
TNO-TPD



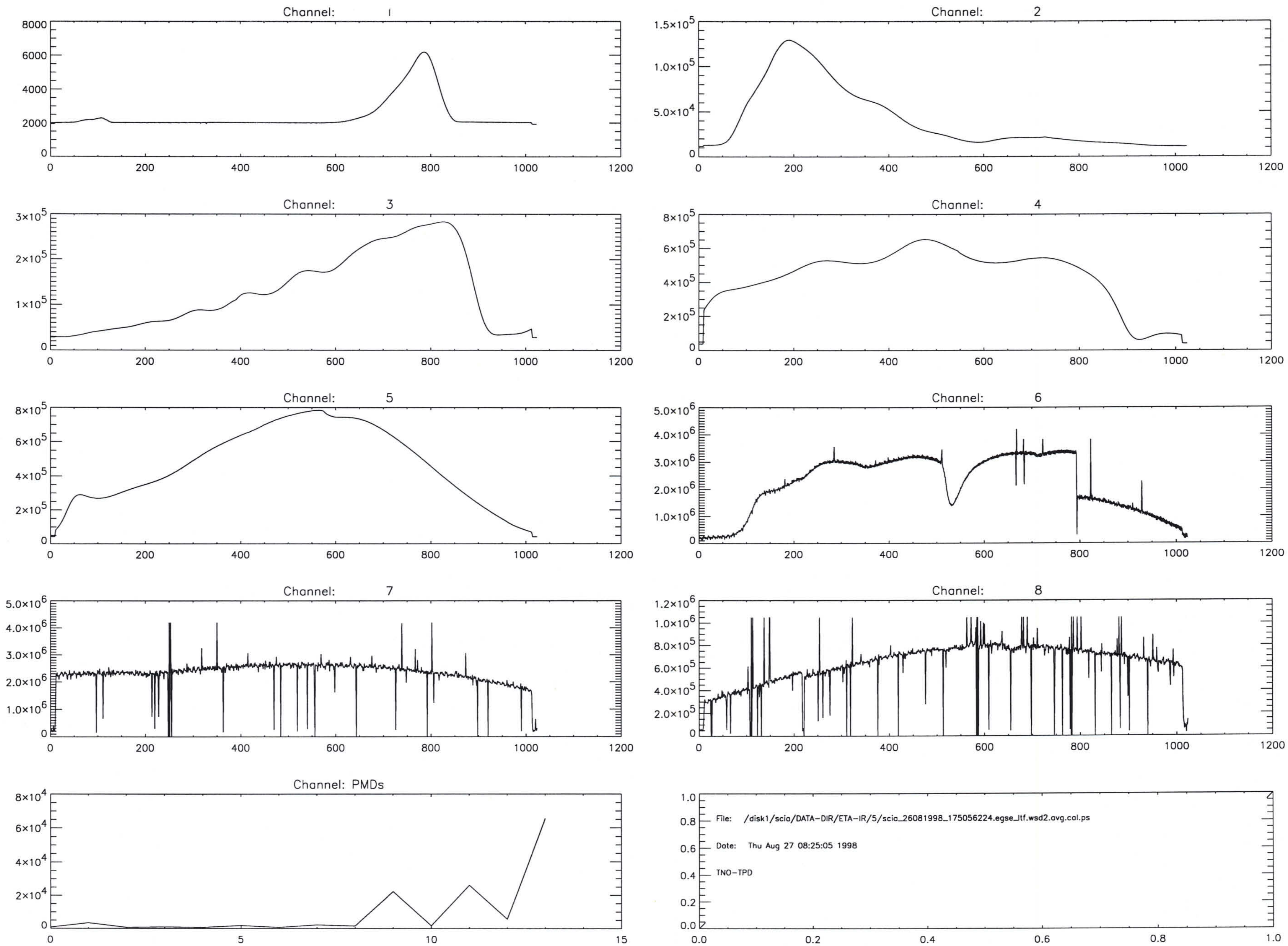
Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.wsb1.avg.cal.ps
Date: Thu Aug 27 08:26:17 1998
TNO-TPD

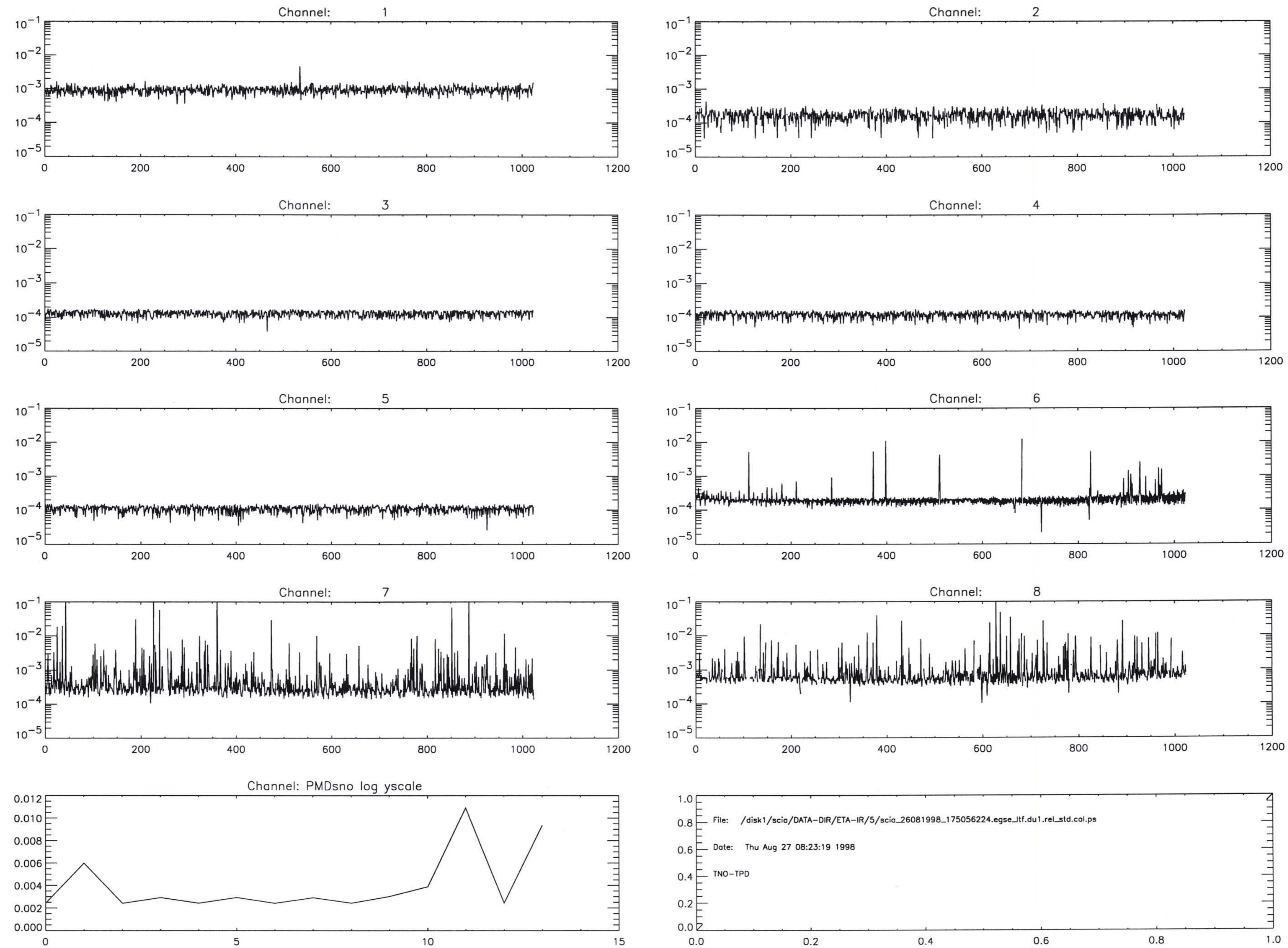


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.wsb2.avg.cal.ps
Date: Thu Aug 27 08:27:29 1998
TNO-TPD

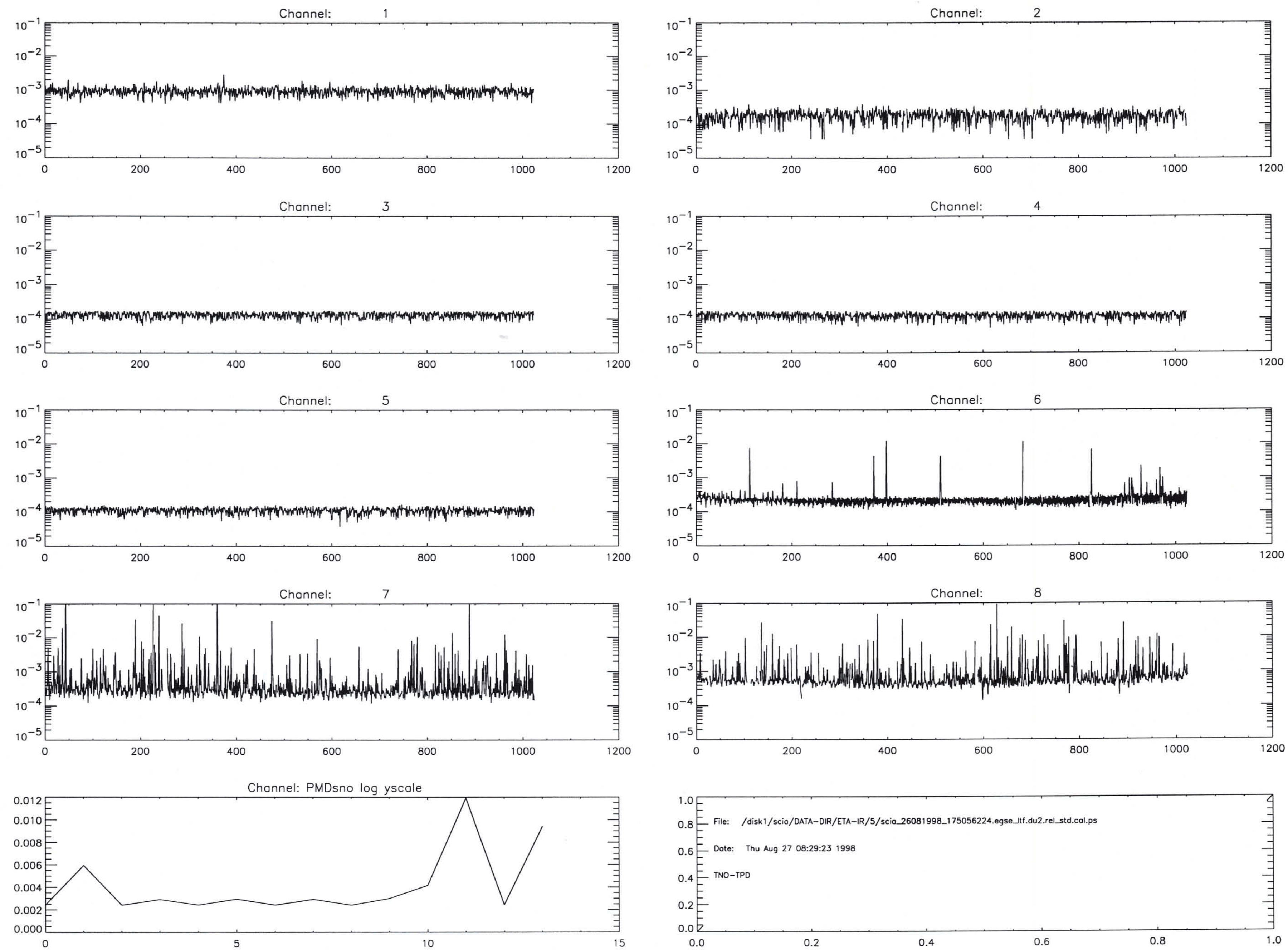


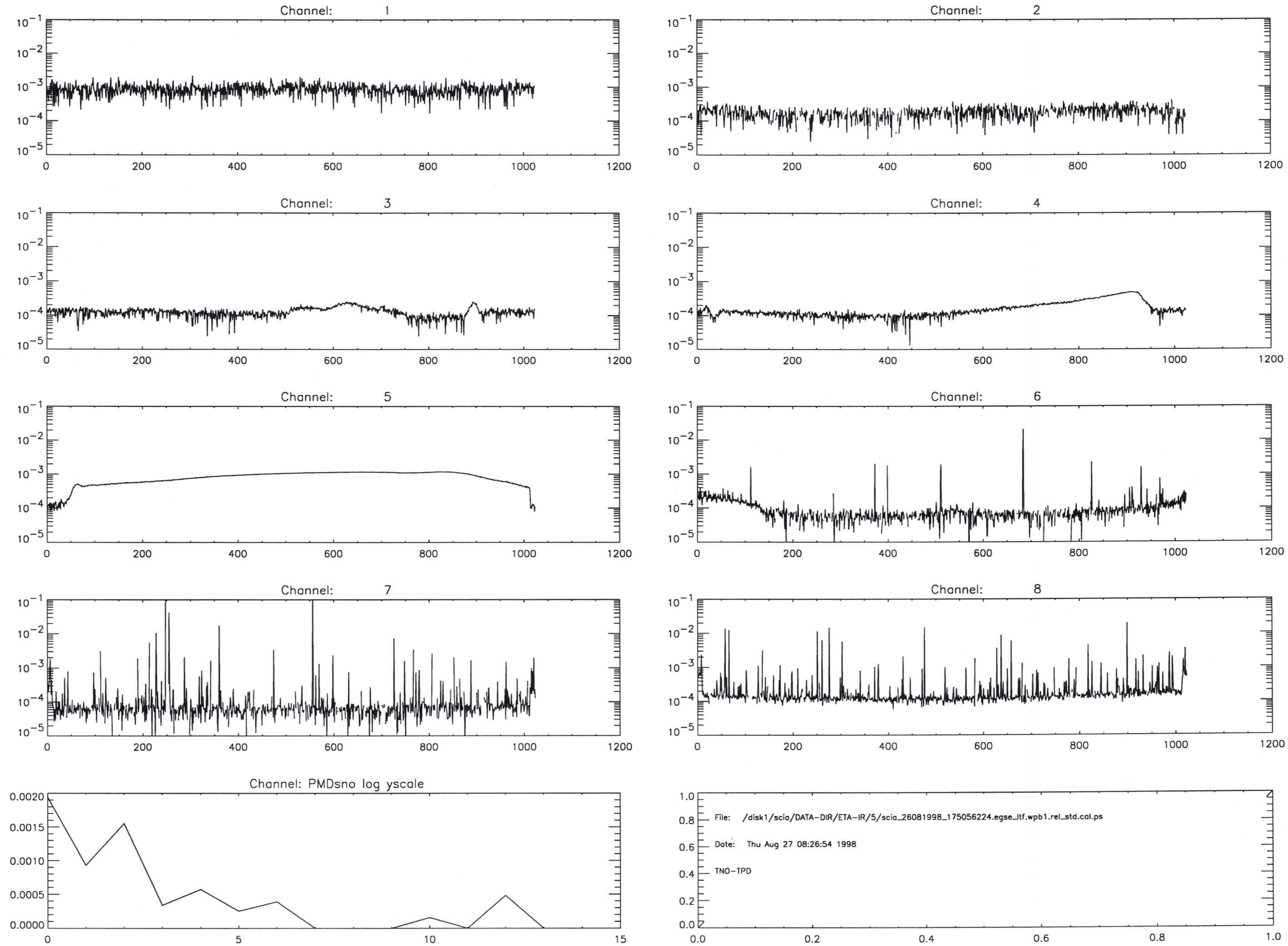
Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.wsd1.avg.cal.ps
Date: Thu Aug 27 08:23:53 1998
TNO-TPD

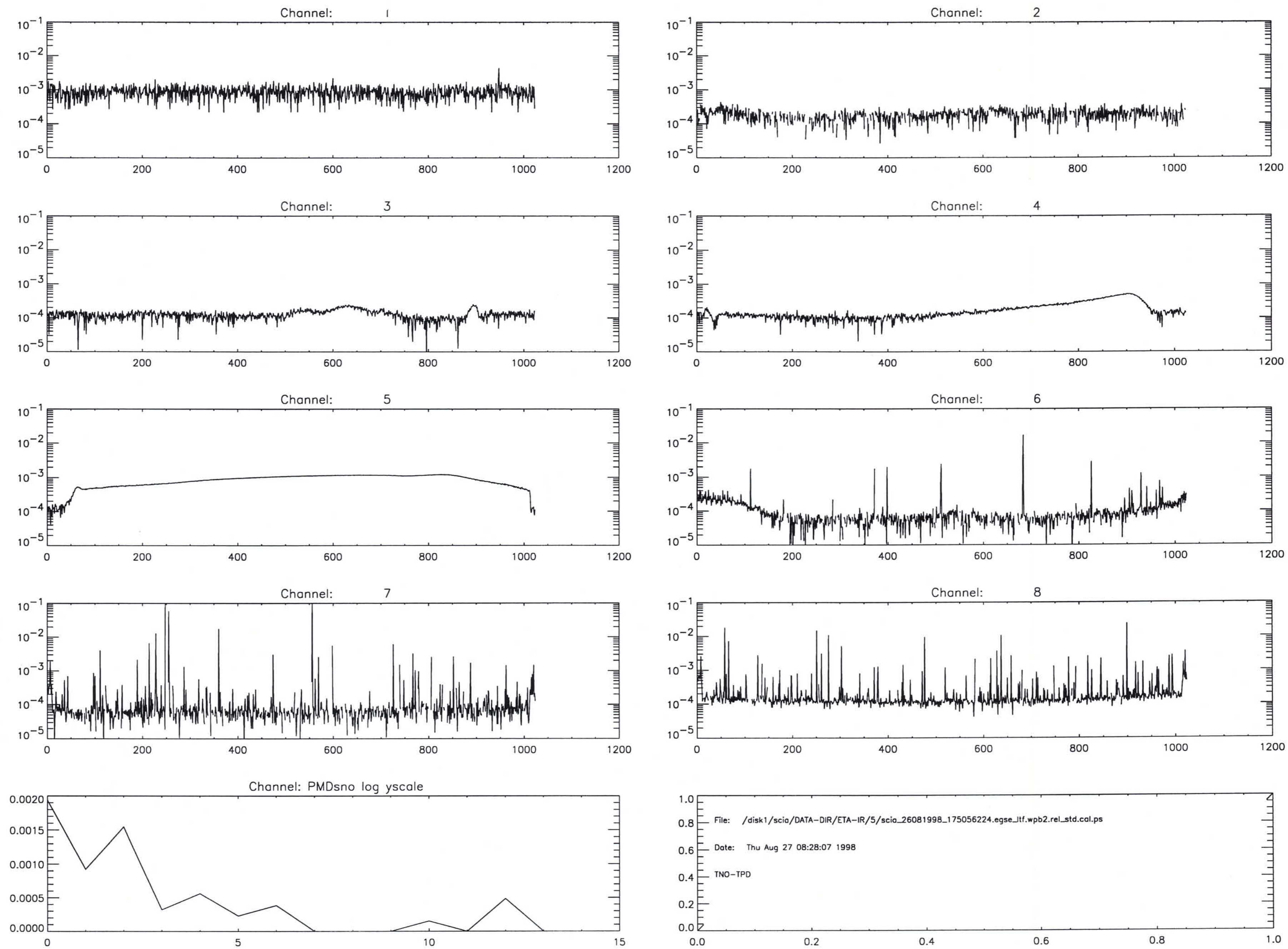

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.wsd2.avg.cal.ps
Date: Thu Aug 27 08:25:05 1998
TNO-TPD



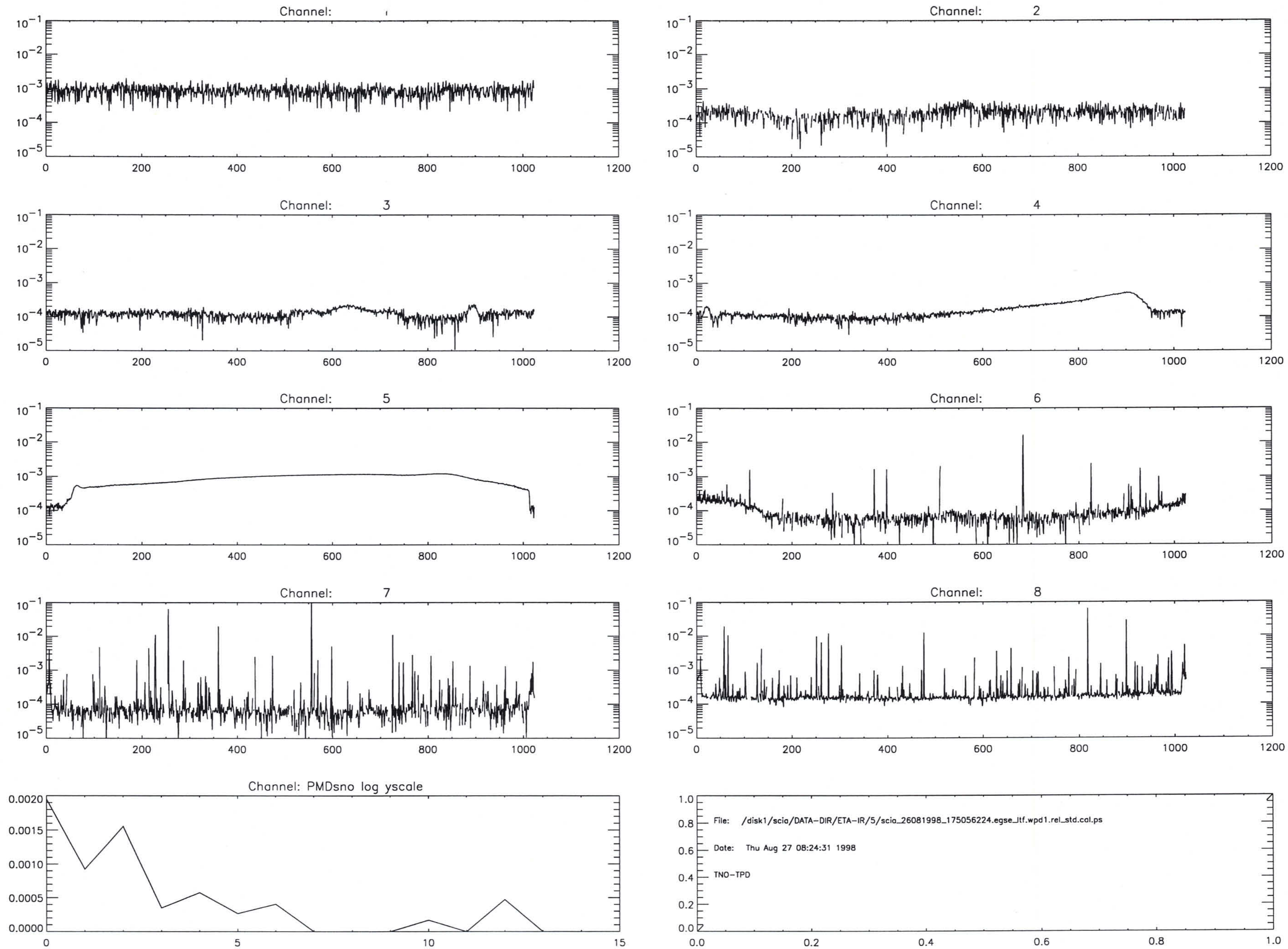
Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scio/DATA-DIR/ETA-IR/5/scio_26081998_175056224.egse_ltf.du1.rel_std.col.ps
Date: Thu Aug 27 08:23:19 1998
TNO-TPD

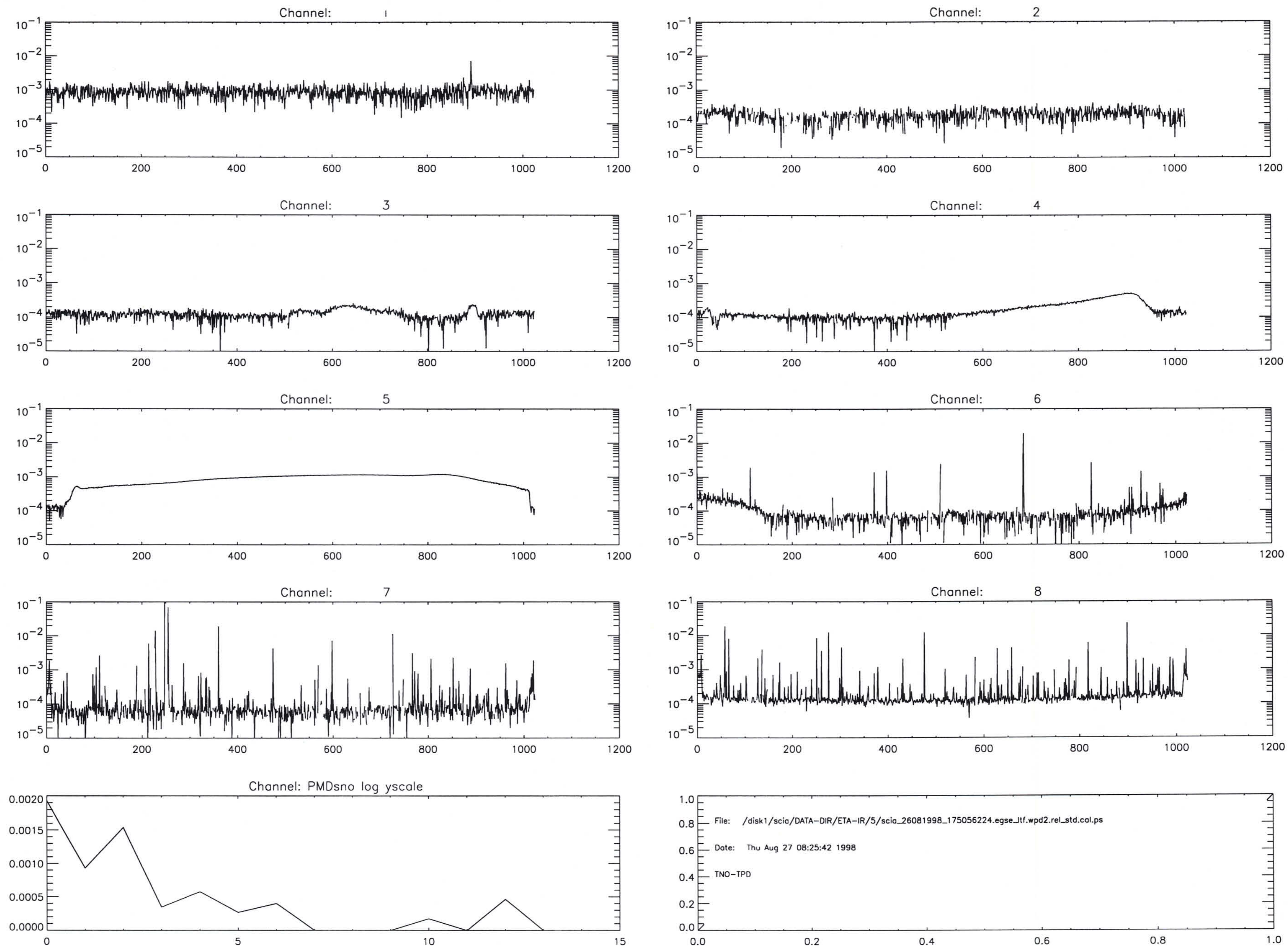

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.du2.rel_std.cal.ps
Date: Thu Aug 27 08:29:23 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.wpb1.rel_std.cal.ps
Date: Thu Aug 27 08:26:54 1998
TNO-TPD

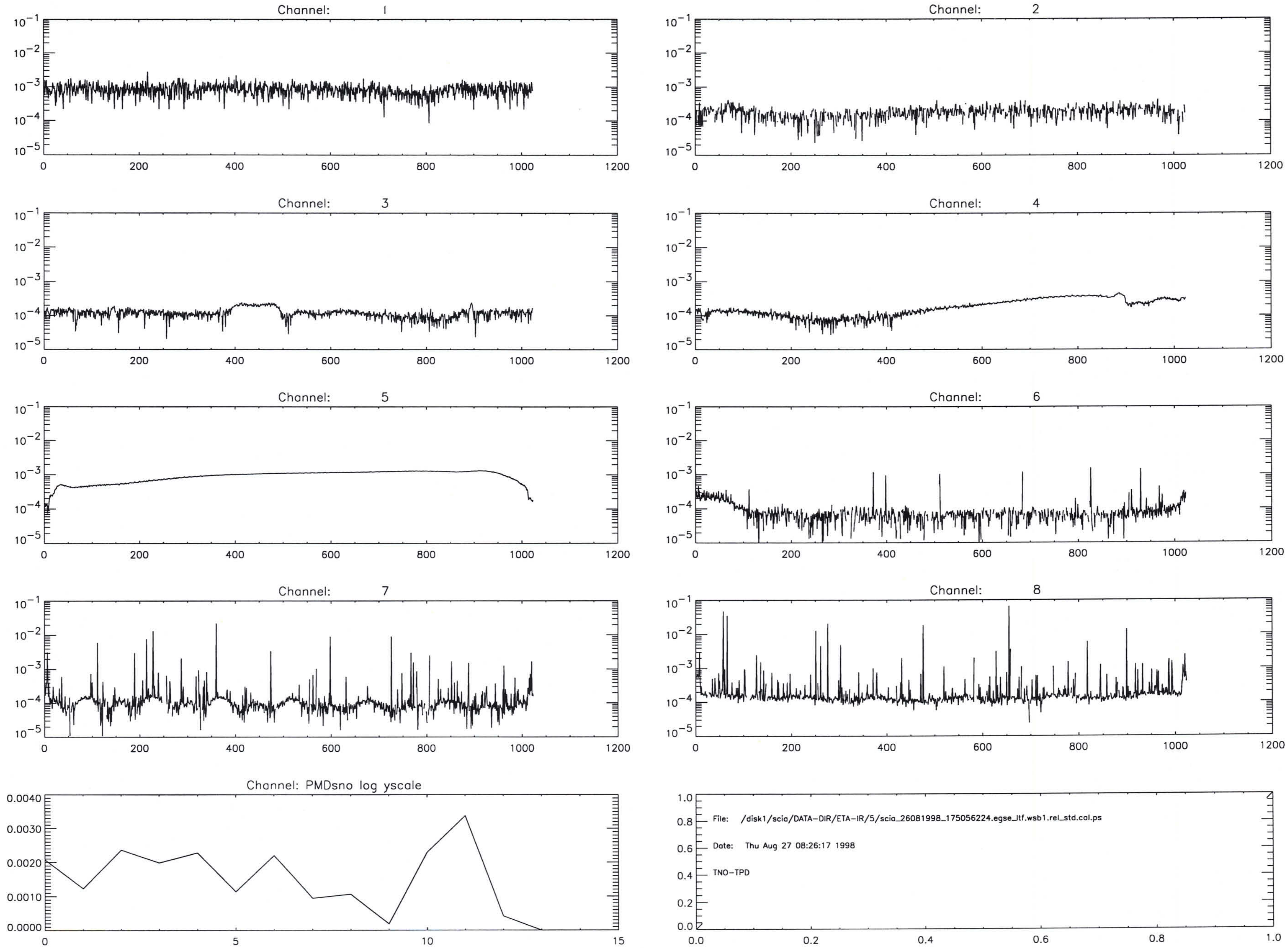


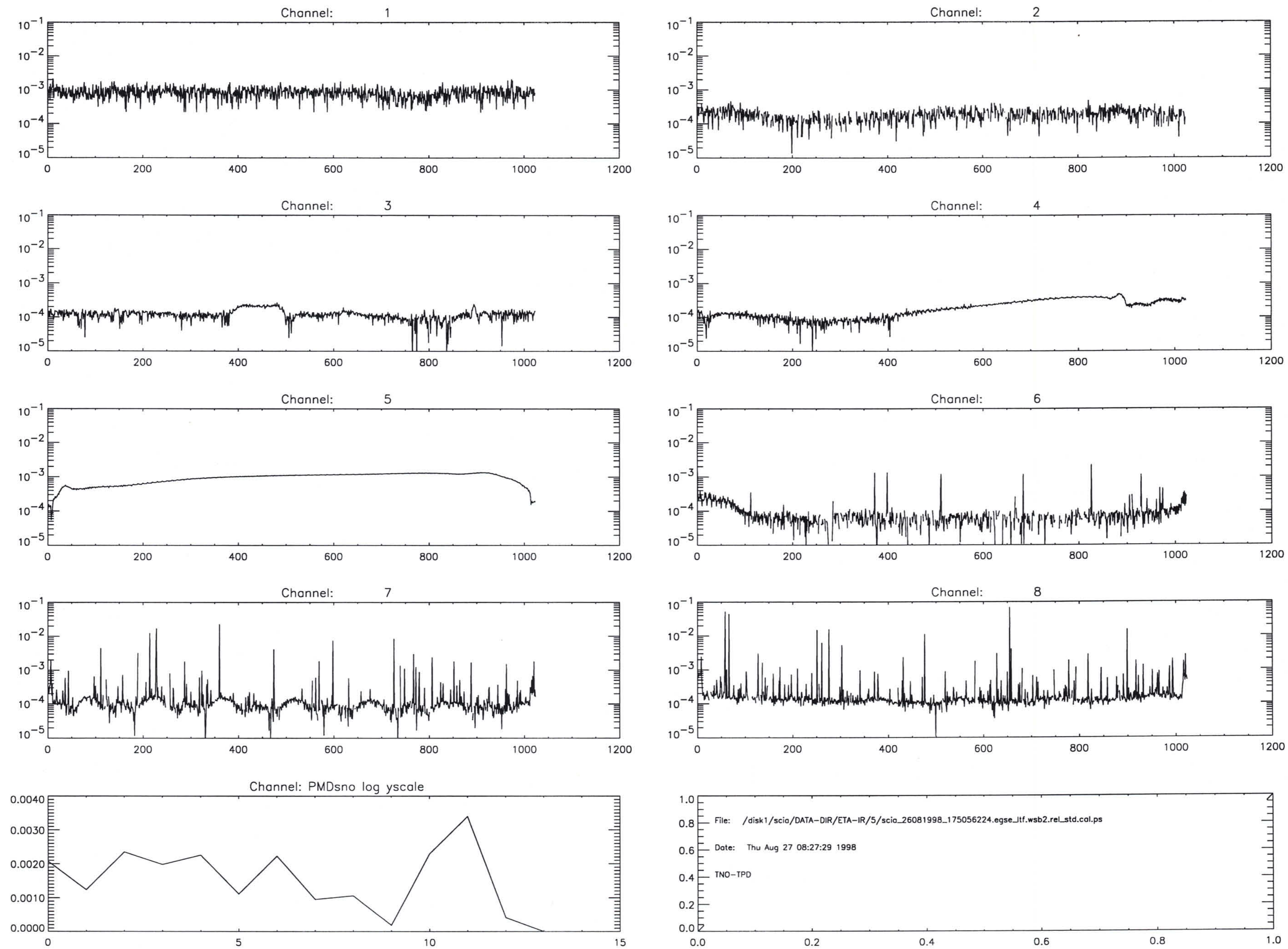
Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.wpb2.rel_std.cal.ps
Date: Thu Aug 27 08:28:07 1998
TNO-TPD

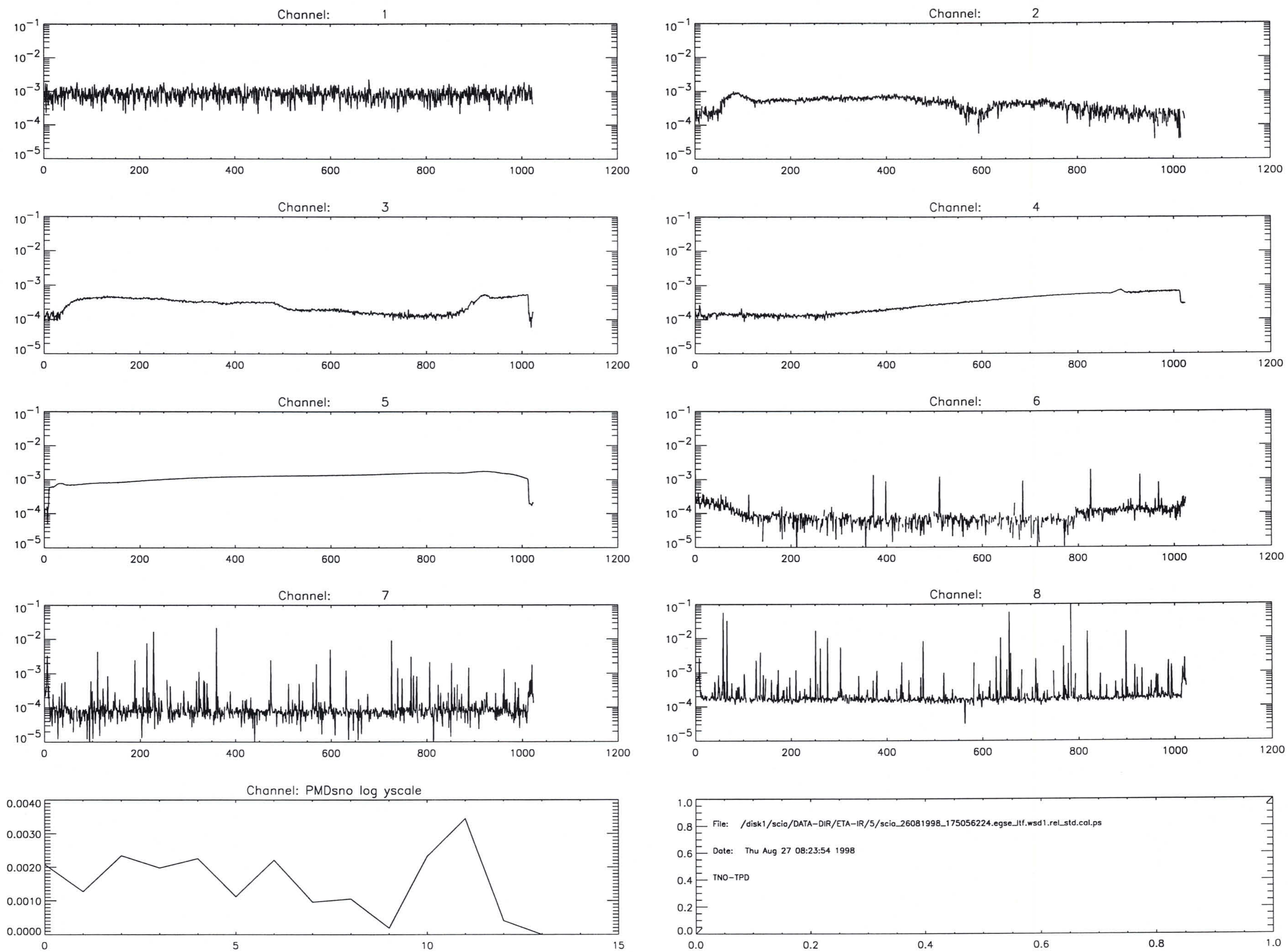

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.wpd1.rel_std.col.ps
Date: Thu Aug 27 08:24:31 1998
TNO-TPD



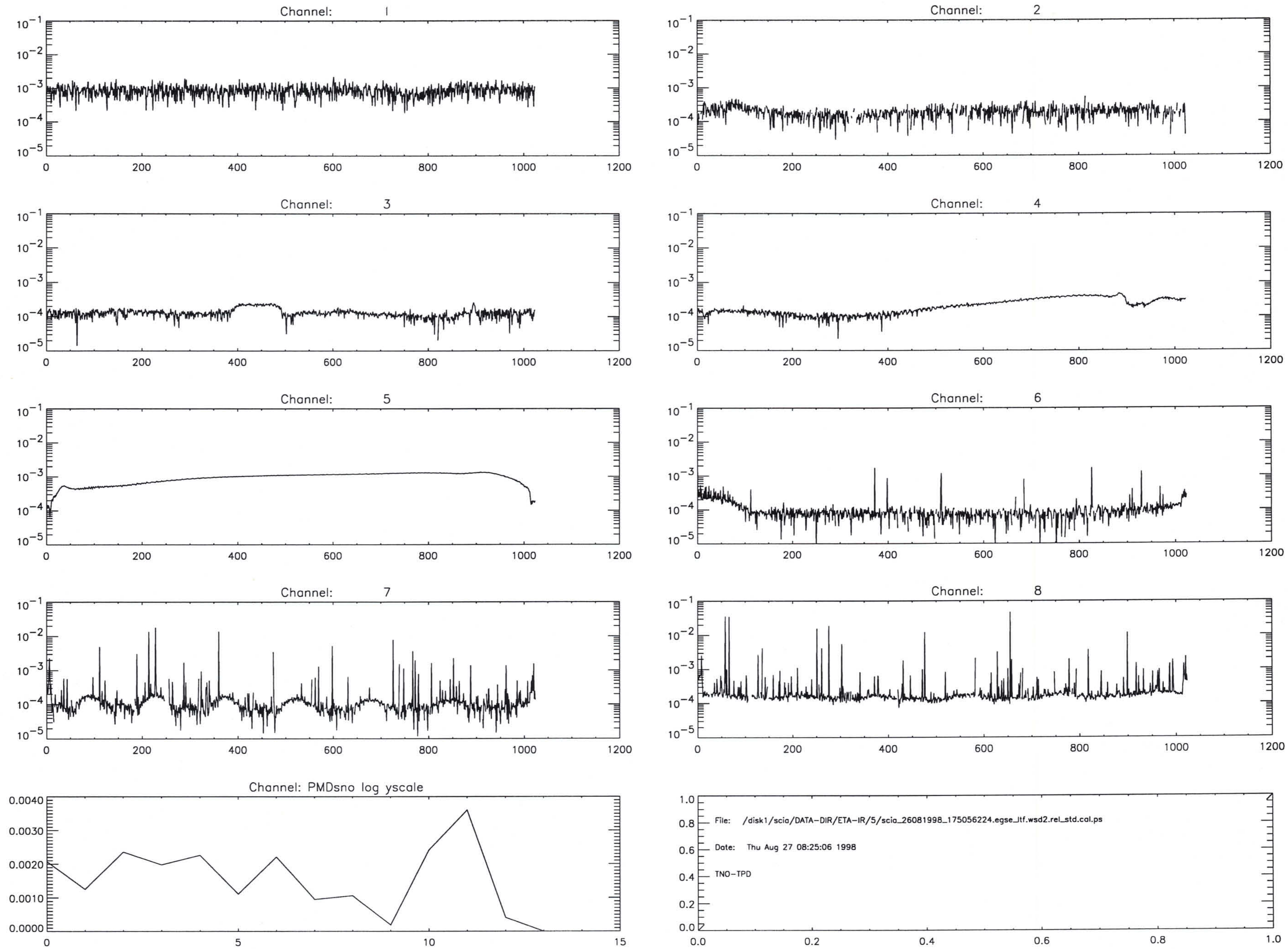
Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.wpd2.rel_std.cal.ps
Date: Thu Aug 27 08:25:42 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.wsb1.rel_std.col.ps
Date: Thu Aug 27 08:26:17 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.wsb2.rel_std.cal.ps
Date: Thu Aug 27 08:27:29 1998
TNO-TPD



Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.wsd1.rel_std.cal.ps
Date: Thu Aug 27 08:23:54 1998
TNO-TPD



Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.wsd2.rel_std.cal.ps
Date: Thu Aug 27 08:25:06 1998
TNO-TPD

```
time       = Thu Aug 27 08:29:23 1998
batch      = du2
Start TOD = Wed 26-Aug-98 18:57:33
End   TOD = Wed 26-Aug-98 19:10:04
Processing= computation of average, standard dev. and rel.standard dev.
```

```
time       = Thu Aug 27 08:26:54 1998
batch      = wpb1
Start TOD = Wed 26-Aug-98 18:37:45
End   TOD = Wed 26-Aug-98 18:44:25
Processing= computation of average, standard dev. and rel.standard dev.
```

```
time       = Thu Aug 27 08:28:07 1998
batch      = wpb2
Start TOD = Wed 26-Aug-98 18:51:05
End   TOD = Wed 26-Aug-98 18:57:33
Processing= computation of average, standard dev. and rel.standard dev.
```

```
time       = Thu Aug 27 08:24:31 1998
batch      = wpd1
Start TOD = Wed 26-Aug-98 18:11:04
End   TOD = Wed 26-Aug-98 18:17:45
Processing= computation of average, standard dev. and rel.standard dev.
```

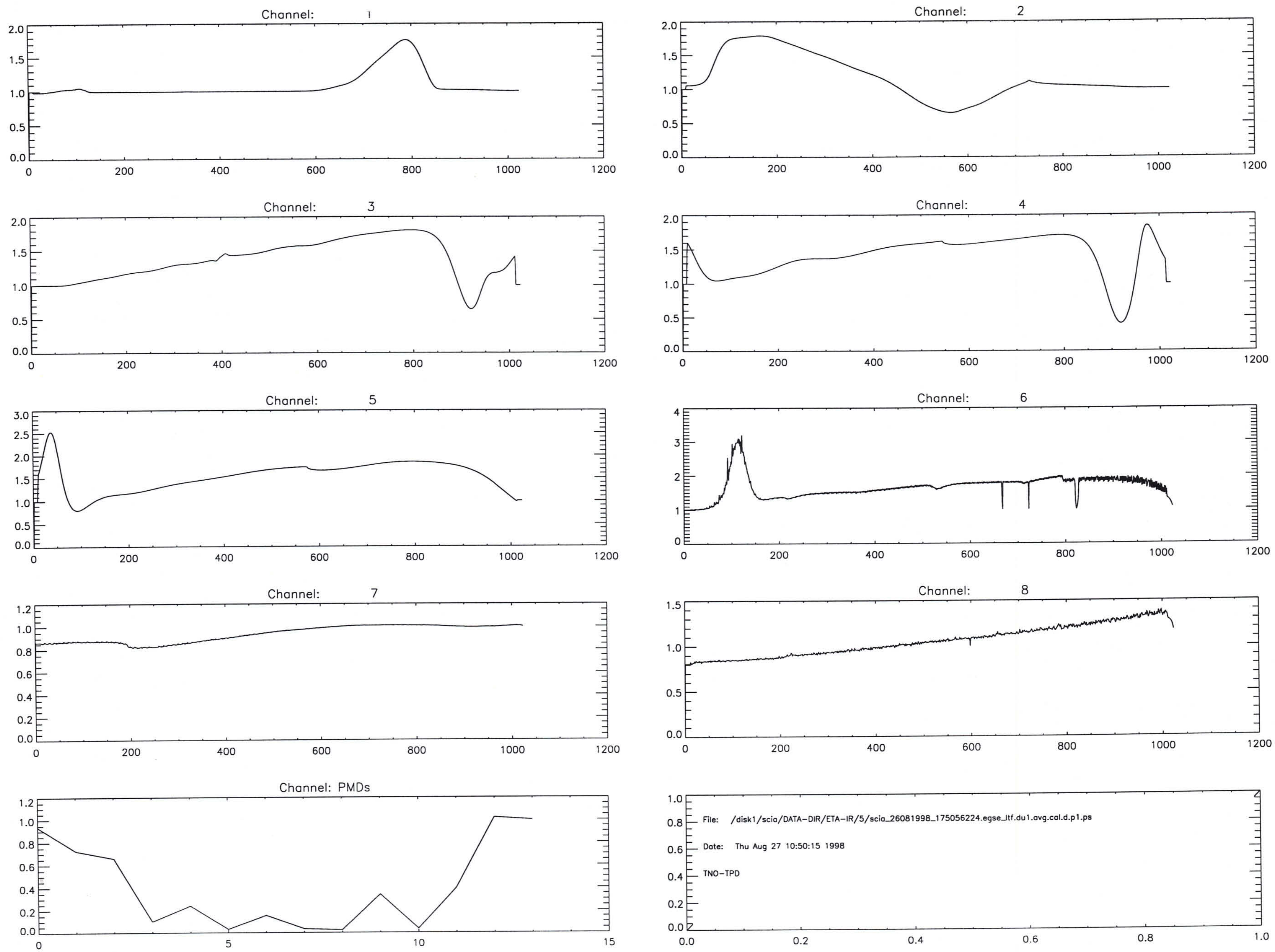
```
time       = Thu Aug 27 08:25:42 1998
batch      = wpd2
Start TOD = Wed 26-Aug-98 18:24:25
End   TOD = Wed 26-Aug-98 18:31:06
Processing= computation of average, standard dev. and rel.standard dev.
```

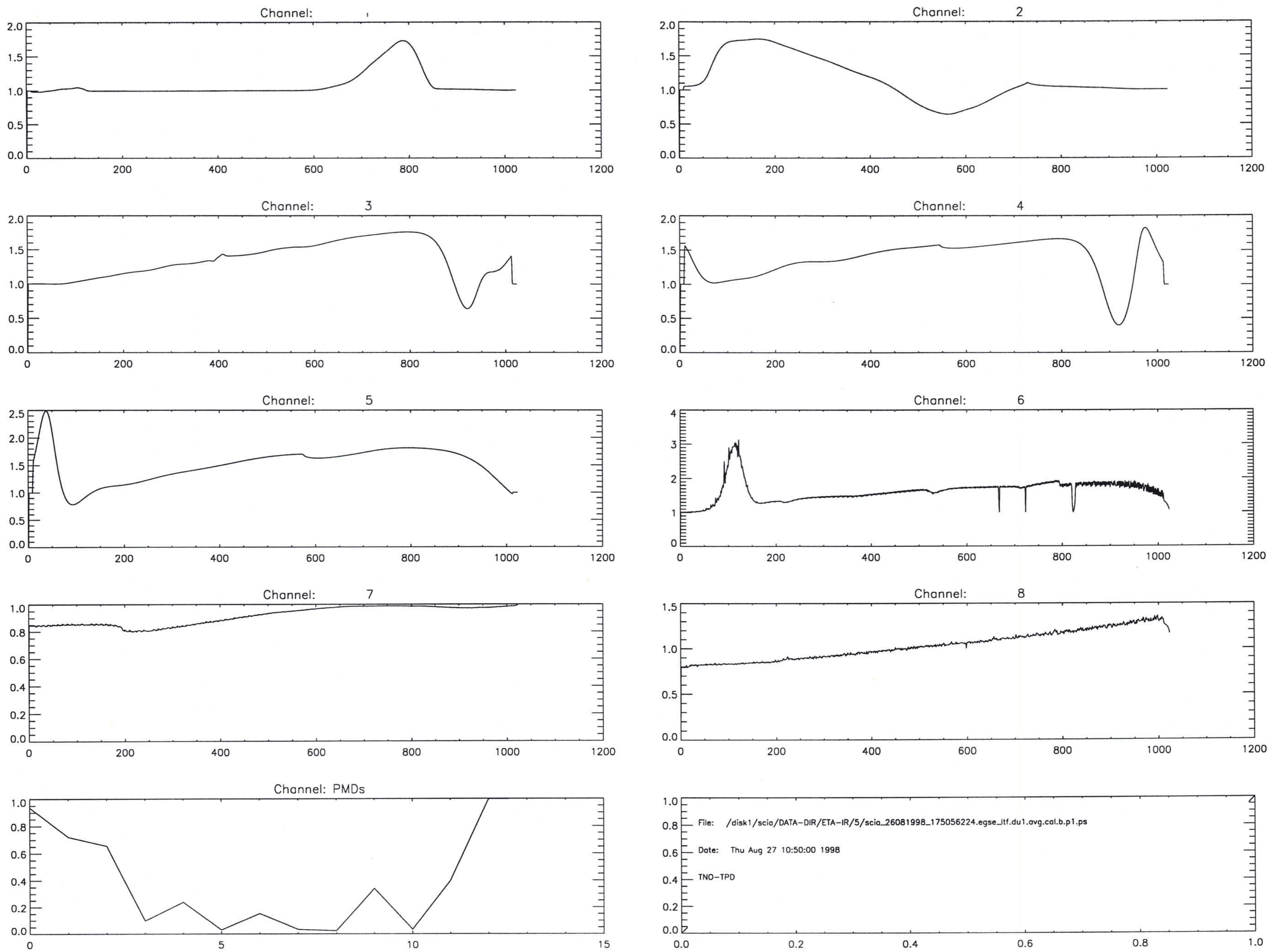
```
time       = Thu Aug 27 08:26:17 1998
batch      = wsb1
Start TOD = Wed 26-Aug-98 18:31:06
End   TOD = Wed 26-Aug-98 18:37:45
Processing= computation of average, standard dev. and rel.standard dev.
```

```
time       = Thu Aug 27 08:27:30 1998
batch      = wsb2
Start TOD = Wed 26-Aug-98 18:44:25
End   TOD = Wed 26-Aug-98 18:51:05
Processing= computation of average, standard dev. and rel.standard dev.
```

```
time       = Thu Aug 27 08:23:54 1998
batch      = wsd1
Start TOD = Wed 26-Aug-98 18:04:26
End   TOD = Wed 26-Aug-98 18:11:04
Processing= computation of average, standard dev. and rel.standard dev.
```

```
time        = Thu Aug 27 08:25:06 1998
batch       = wsd2
Start TOD = Wed 26-Aug-98 18:17:45
End   TOD = Wed 26-Aug-98 18:24:25
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/ETA-IR/5/scia_26081998_175056224.egse_ltf.du1.avg.cal.d.p1.ps
Date: Thu Aug 27 10:50:15 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/ETA-IR/5/scia_26081998_175056224.egse_itf.du1.avg.cal.b.p1.ps
Date: Thu Aug 27 10:50:00 1998
TNO-TPD

```
Version:  0.1
Input files:
 /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.du1.avg.cal
 /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.wpd1.avg.cal
 /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.wpd2.avg.cal
 /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.wsd1.avg.cal
 /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.wsd2.avg.cal
Processing:
Computation of Eta (do_single_eta)
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/200898/ppg.cal
ETALON correction filename used:
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/200898/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/200898/wl.data
STRAYLIGHT correction filename used:
Processing time: Thu Aug 27 10:50:15 1998
Output file name:
/disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.du1.avg.cal.d.p
```

```
Version:  0.1
Input files:
 /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.du1.avg.cal
 /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.wpb1.avg.cal
 /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.wpb2.avg.cal
 /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.wsb1.avg.cal
 /disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.wsb2.avg.cal
Processing:
Computation of Eta (do_single_eta)
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/200898/ppg.cal
ETALON correction filename used:
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/200898/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/200898/wl.data
STRAYLIGHT correction filename used:
Processing time: Thu Aug 27 10:50:00 1998
Output file name:
/disk1/scia/DATA-DIR/ETA-IR/5/scia_26081998_175056224.egse_ltf.du1.avg.cal.b.p
```

LOG SHEET SCHIAMACHY CALIBRATION

Date/Time	Description of action	Measurement directory
25-08-'98	Voor Bart / Erik Debug software van Dornier is klaar, zodat ze beter naar software fouten kunnen zoeken. Sindsdien is ETA-IR eenmaal gecrased en eenmaal afgerond. echter, omdat het instrument 1½ uur uit is geweest zijn de DM temperaturen nog te laag Er is een tele conferentie geweest met :- Fricke, Trevor en Marcel Daar is besloten dat het Debug team morgen tot ongeveer 15:00 de tijd krijgen. Meet programma: 1. Xsi-VisIR-III met 2x LSD diffuser Analyse van André compare van team 1 om de nieuwste meting te vergelijken met sub.dir 5. 2. Terug bouwen naar ETA-IR met de opnieuw gestabeliseerde temperaturen ETA-IR één of twee maal herhalen tot morgen vroeg. Dornier operator weet wat hij/zij moet doen bij crash. 3. Bij succes volle ETA-IR met correcte temp kan erik besluiten de temp te verlagen. Marcel/erik/maurice hebben enkele dagen nodig om te beslissen over acties als de Xsi-ratio niet gelijk is aan 1	

LOG SHEET SCHIAMACHY CALIBRATION

Date/Time	Description of action	Measurement directory
26-8-98	XI-6, XSI-VISIR-III, 2 LSD	
7:30 UT ~~[illegible]~~	FIRST SHORT RUN TO DET. PET's DIRECTORY XSI-VISIR-III/6	
10:00 UTC	Xi-7, XSI-VISIR-III, 2 LSD	

Formal Run of Measurement

(Measurement ID) Xi_6

Request for Actual Status	X	(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	-45	deg

Timeline for each Data Acquisition Period during Measurement

	1	2	3	4	5	6	7	8	9	10
State ID	22									
Repetitions	1									

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

Test-PET

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	64	1						
2a	64	1						
3	64	1						
4	64	1						
5	64	1						
6	1	64						
7	2	32						
8	2	32						
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	1	0	85,4	close	1	1240	1240	0	1	Du1	50
2	1	0	85,4	open	1	1240	1240	0	1	mp2	8
3	1	0	85,4	open	1	1242	1660	42	1	mp2	3
4	1	0	85,4	close	1	1660	1660	0	1	Du2	8

Measurement Data Description

Test Purpose	
Remark	410 15
Data Directory	0238-20.57.24

Signatures

	Date	Signature
Issued	26/8/98	
< Performed	26-8-98	[signature]

Formal Run of Measurement

(Measurement ID) Xi-6

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	-45	deg

Timeline for each Data Acquisition Period during Measurement

	1	2	3	4	5	6	7	8	9	10
State ID	22									
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	64	1						
2a	64	1						
3	64	1						
4	64	1						
5	64	1						
6	4	16						
7	2	32						
8	2	32						
State ID								

Step 14-2

Stimuli Settings for Existing Blocks in Measurement

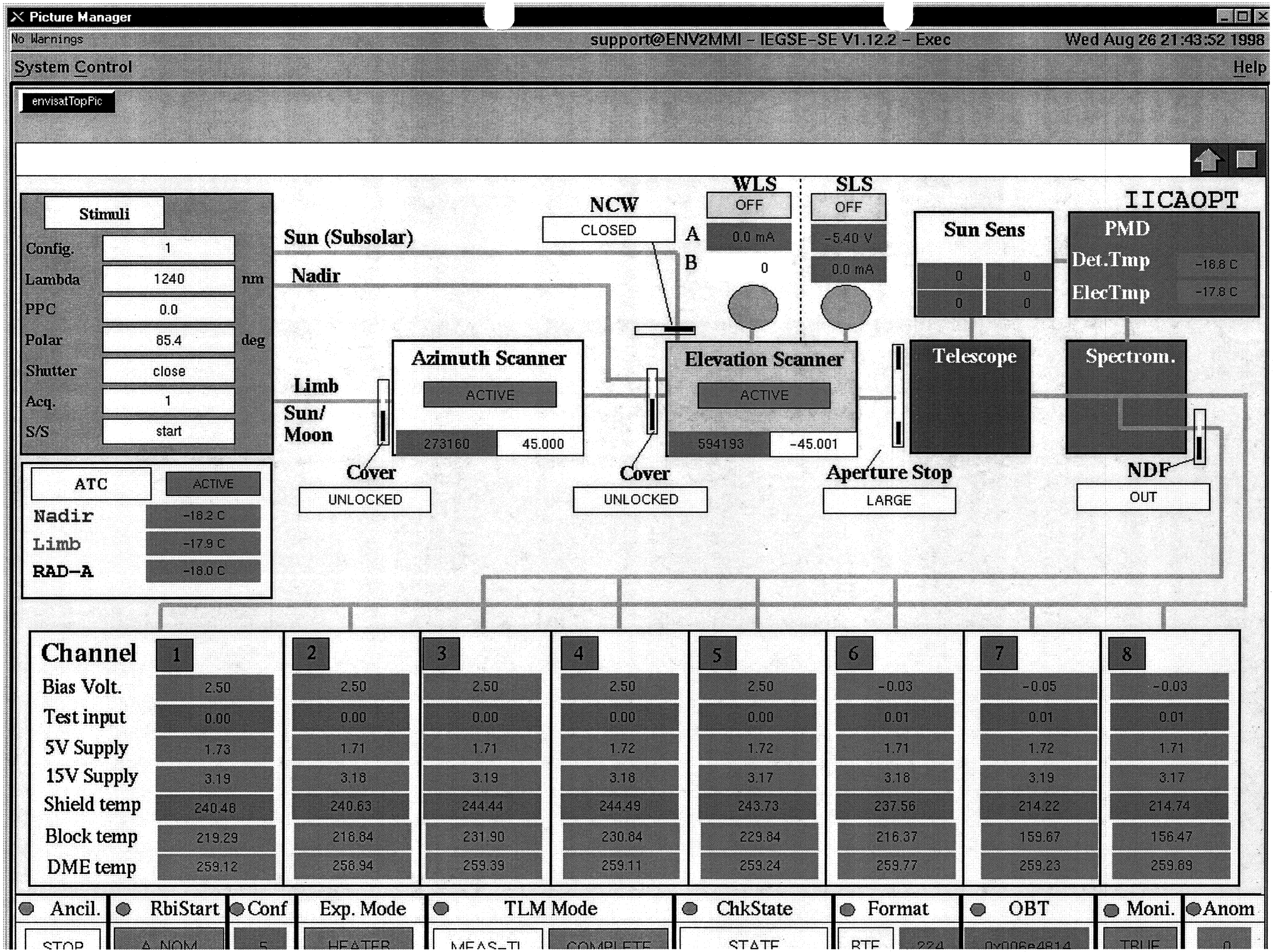
Block No	Stimuli Setup ID	PPC [deg]	Polarizer [deg]	Shutter open/close	Acquisition Time [s]	Lambda [nm] Start	Stop	Step	Repetition Factor	Message	OS Setup Time [s]
1	1	0	85.4	close	1	1240	1240	0	5	DU1	50
2	1	0	85.4	open	1	1240	1240	0	1	HPU	8
3	1	0	85.4	open	1	1242	1660	2	1	HPU	3
4	1	0	85.4	close	1	1660	1660	0	5	DU2	8

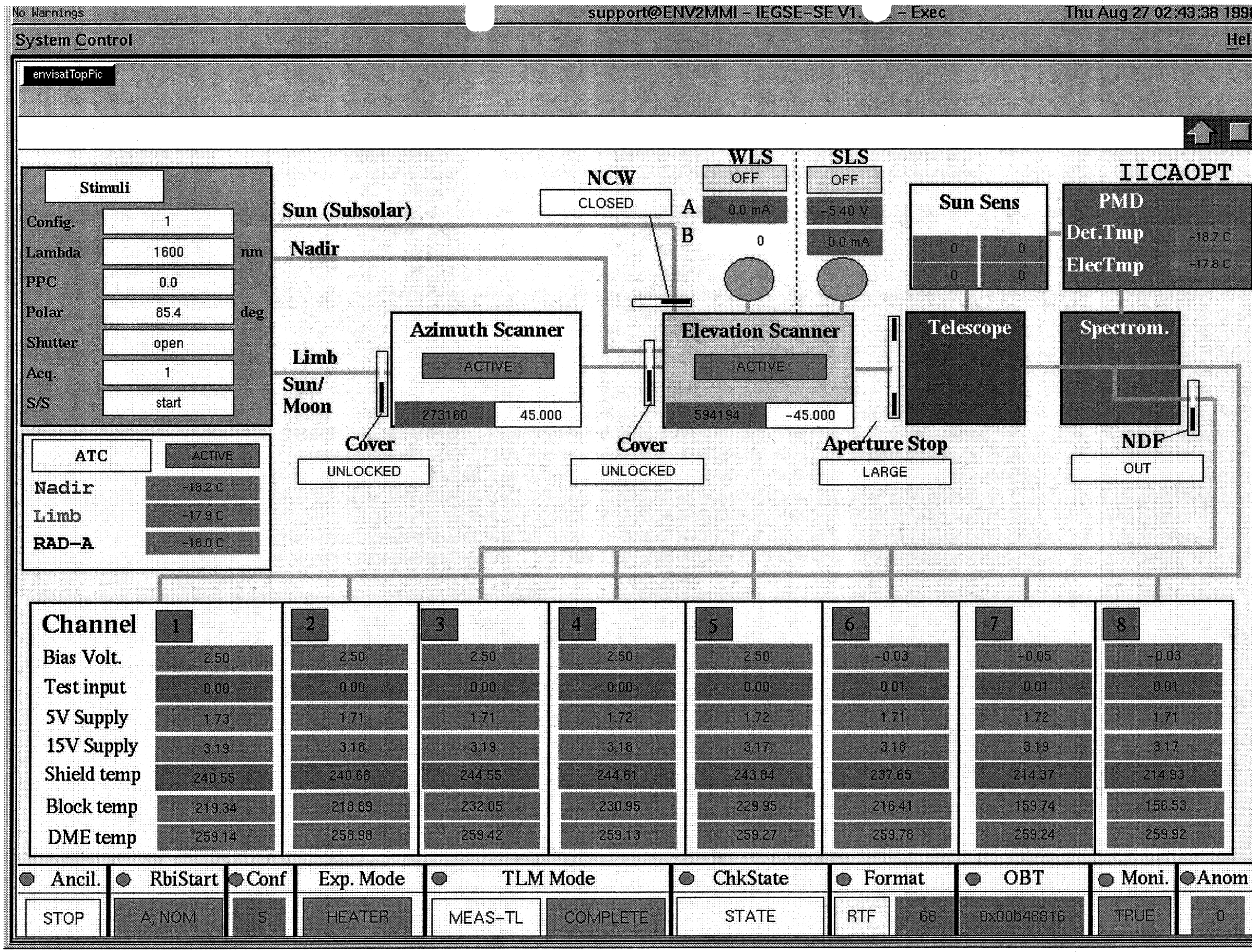
Measurement Data Description

Test Purpose	
Remark	UID 15
Data Directory	0238_21.38.03_XI-6

Signatures

	Date	Signature
Issued	26/8/98	RB
< Performed	26-8-98	(signature)


Picture Manager
No Warnings
support@ENV2MMI – IEGSE-SE V1.12.2 – Exec
Wed Aug 26 21:43:52 1998
System Control
Help
envisatTopPic
IICAOPT
Stimuli
Config. 1
Lambda 1240 nm
PPC 0.0
Polar 85.4 deg
Shutter close
Acq. 1
S/S start
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
-5.40 V
0.0 mA
Sun Sens
0 0
0 0
PMD
Det.Tmp -18.8 C
ElecTmp -17.8 C
Azimuth Scanner
ACTIVE
273160 45.000
Elevation Scanner
ACTIVE
594193 -45.001
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 240.48 240.63 244.44 244.49 243.73 237.56 214.22 214.74
Block temp 219.29 218.84 231.90 230.84 229.84 216.37 159.67 156.47
DME temp 259.12 258.94 259.39 259.11 259.24 259.77 259.23 259.89
Ancil.
RbiStart
Conf
Exp. Mode
TLM Mode
ChkState
Format
OBT
Moni.
Anom


No Warnings
support@ENV2MMI - IEGSE-SE V1.
- Exec
Thu Aug 27 02:43:38 1998
System Control
Help
envisatTopPic
Stimuli
Config. 1
Lambda 1600 nm
PPC 0.0
Polar 85.4 deg
Shutter open
Acq. 1
S/S start
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
-5.40 V
0.0 mA
Azimuth Scanner
ACTIVE
273160 45.000
Elevation Scanner
ACTIVE
594194 -45.000
Cover
UNLOCKED
Cover
UNLOCKED
Aperture Stop
LARGE
Sun Sens
0 0
0 0
Telescope
IICAOPT
PMD
Det.Tmp -18.7 C
ElecTmp -17.8 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 240.55 240.68 244.55 244.61 243.84 237.65 214.37 214.93
Block temp 219.34 218.89 232.05 230.95 229.95 216.41 159.74 156.53
DME temp 259.14 258.98 259.42 259.13 259.27 259.78 259.24 259.92
Ancil. STOP
RbiStart A, NOM
Conf 5
Exp. Mode HEATER
TLM Mode MEAS-TL COMPLETE
ChkState STATE
Format RTF 68
OBT 0x00b48816
Moni. TRUE
Anom 0

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Bart Bakkeren 27/8/98	
	What's the name of the (main) data input files generated by the EGSE? (*.dat)	SCIA_26081998_214223902.dAT 235352002.dat 27081998_020200813.dAT	(A)
	Setup a three-window configuration on your SUN.		see course descr.
Cnstr directory	cd ~/DATA-DIR/XSI-VisIr-III/ ; ls -l highest number in directory?	6	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	7 Y/ N	(C)
	directory name is:	~/DATA-DIR/XSI-VisIR-III/<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_26081998_214223902.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_fastaverscia (and select file <D> when asked)		Note: In window IDL

In DATA-DIR Window

Check CAL files

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

size: d1&d2 14598

should be approx 150Kb

Monochromator ouput:

`ls -l *mp<lambda>*.avg.cal (where lambda is a wavelength indicator)`

size: ____________

should be approx 150Kb

lambda ranges from: 1240

to: 1660

Note: all files should be present, if not:

(a) Check file <D> using SOLAN and check whether `dremark1` labels are present.

(b) Check if enough disk space is available (Unix command `df -k | more`).

Print postscript

Pick a *.mp<lambda>.avg.cal file.

`lpr -P<printer> *.avg.cal.ps`

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

Contents of a file *mp<lambda>.avg.cal.ps should contain a peak signal in corresponding channel (cannot be seen in channels 7 and 8): Y / N

Contents of *mp<lambda>.rel_std.cal.ps files should be smaller than 0.01 (pixel 300 -- 800) for all channels. Y / N ?

If not, value is: → repetitions 1 => rel-STD niet te berekenen.

Add postscript images to logbook, done Y / N

Print logfiles

`lpr -P<printer> *.log`

Add logfiles to logbook, done Y / N

Xsi processing

Control file	Construct control-file in dir. <DIR-NAME> where each line is of the form <l1> <l2> <darkname> (meaning that file <darkname> is to be used as dark measurement for monochromator outputs with wavelength M such that <l1> <= M <= <l2>). lpr -P<printer> <DIR-NAME>/control-file Add control-file to logbook, done	Y / N	
Run XSI	idl do_xsi		
Check XSI	ls -l *.data Size of file <D>.du*.cal.data	91 kb	In DATA-DIR window
Check XSI visually	idl do_xsi_processing		In IDL window
	lpr -P<printer> *.data.ps Value of XSI resembles expected XSI (see [Predicted PFMcalibration results])? Add postscript images to logbook, done	Y / N Y / N	In DATA-DIR window
Print logfiles	lpr -P<printer> *.data.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

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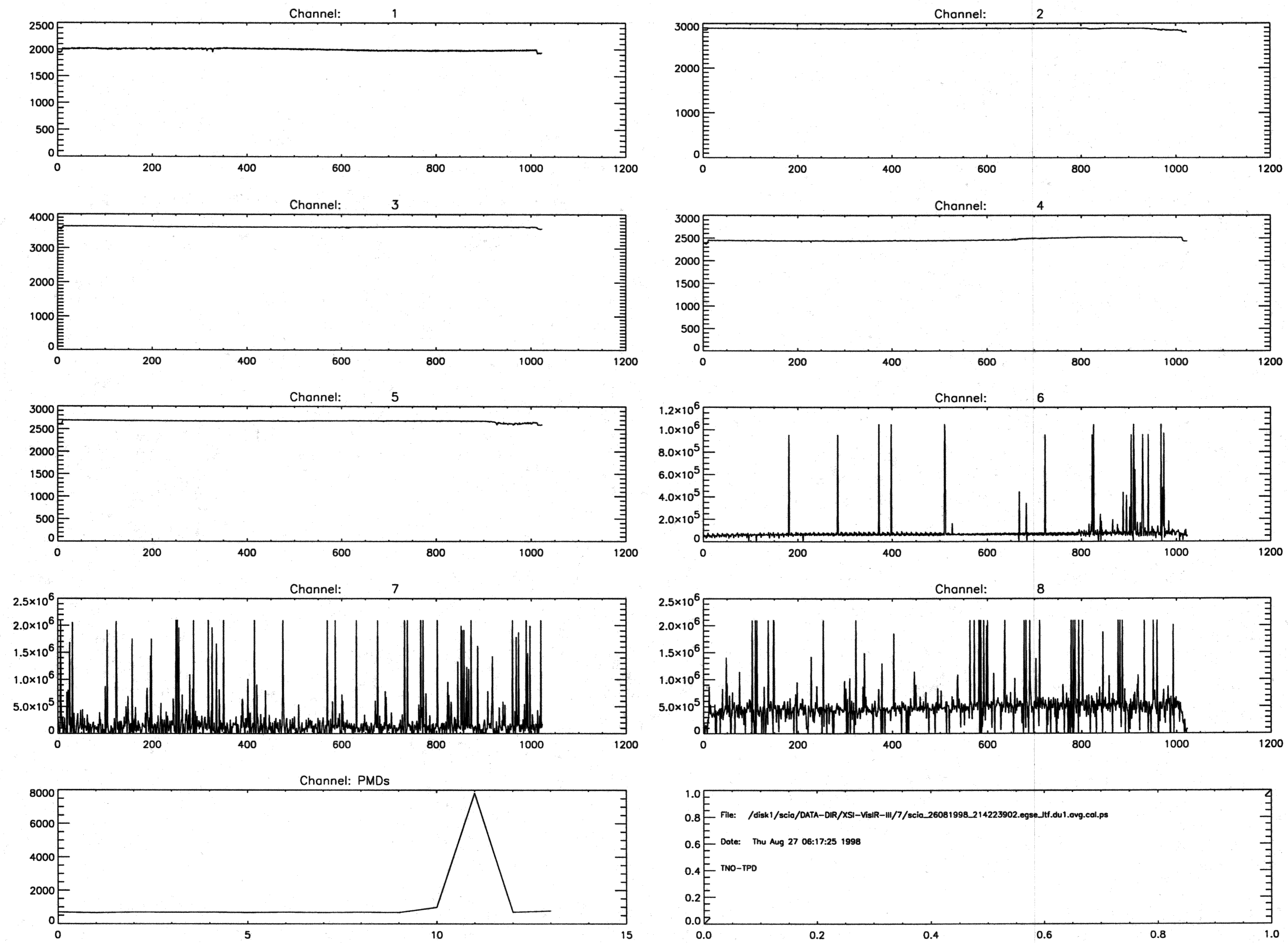
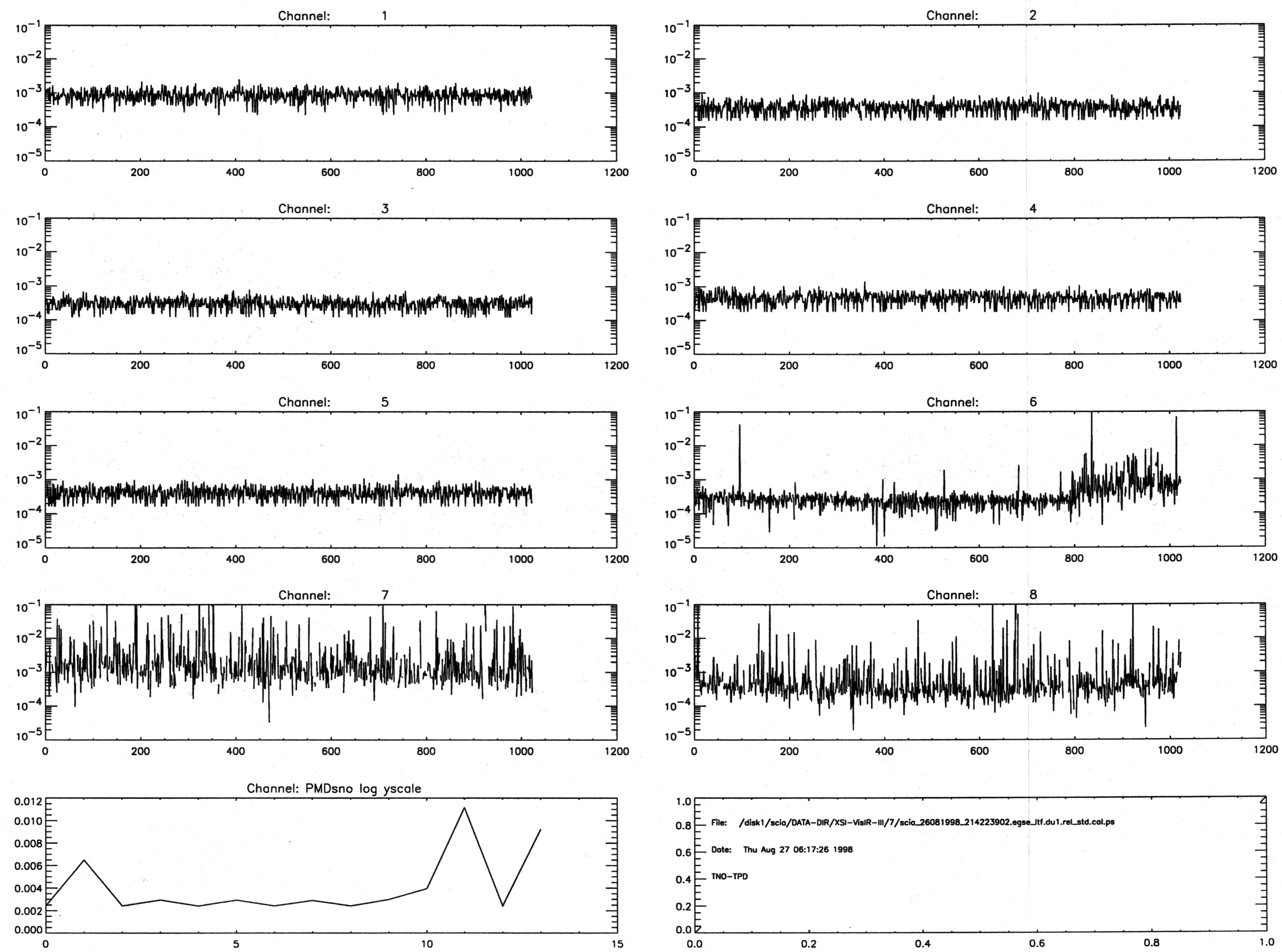
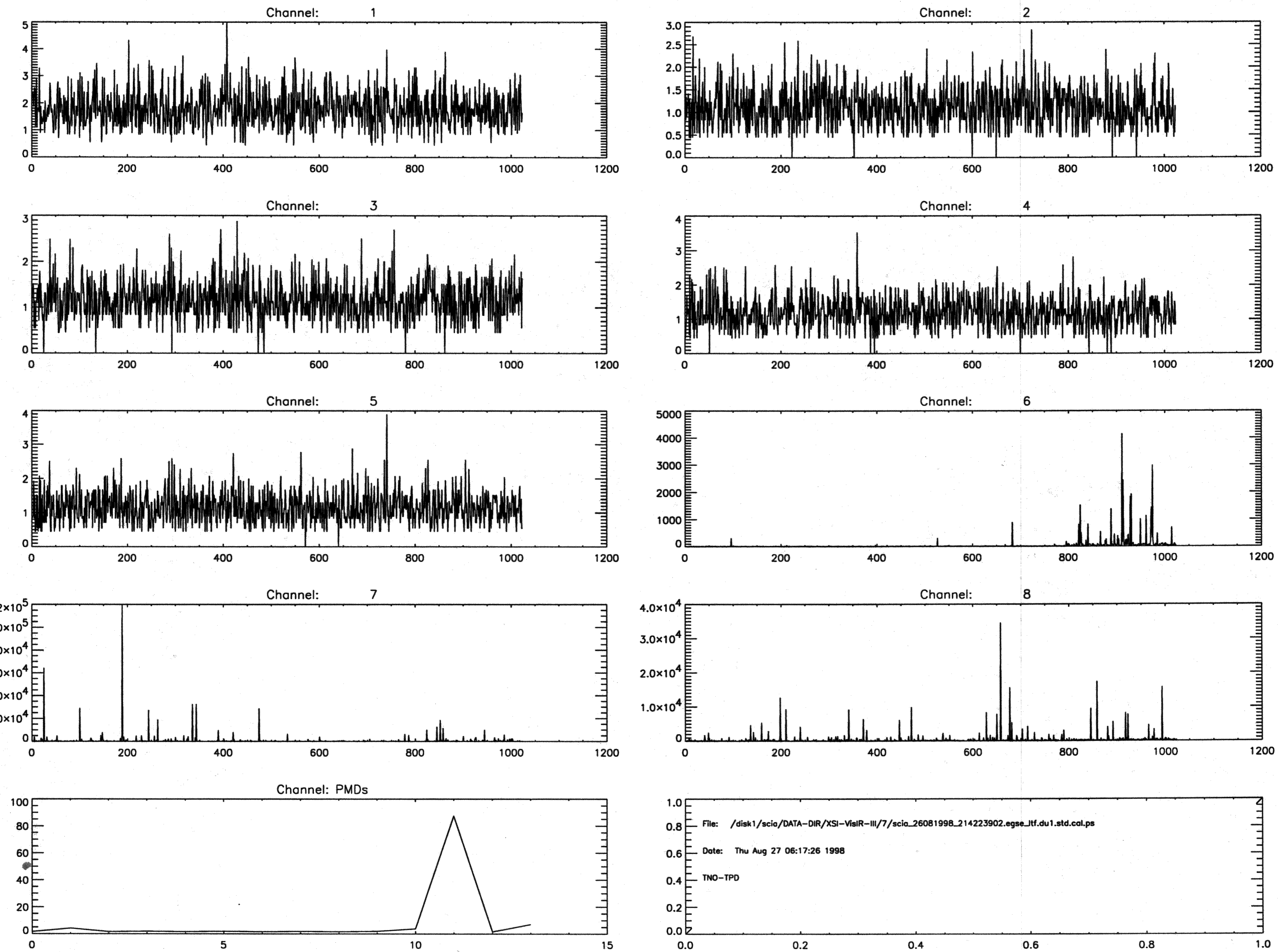
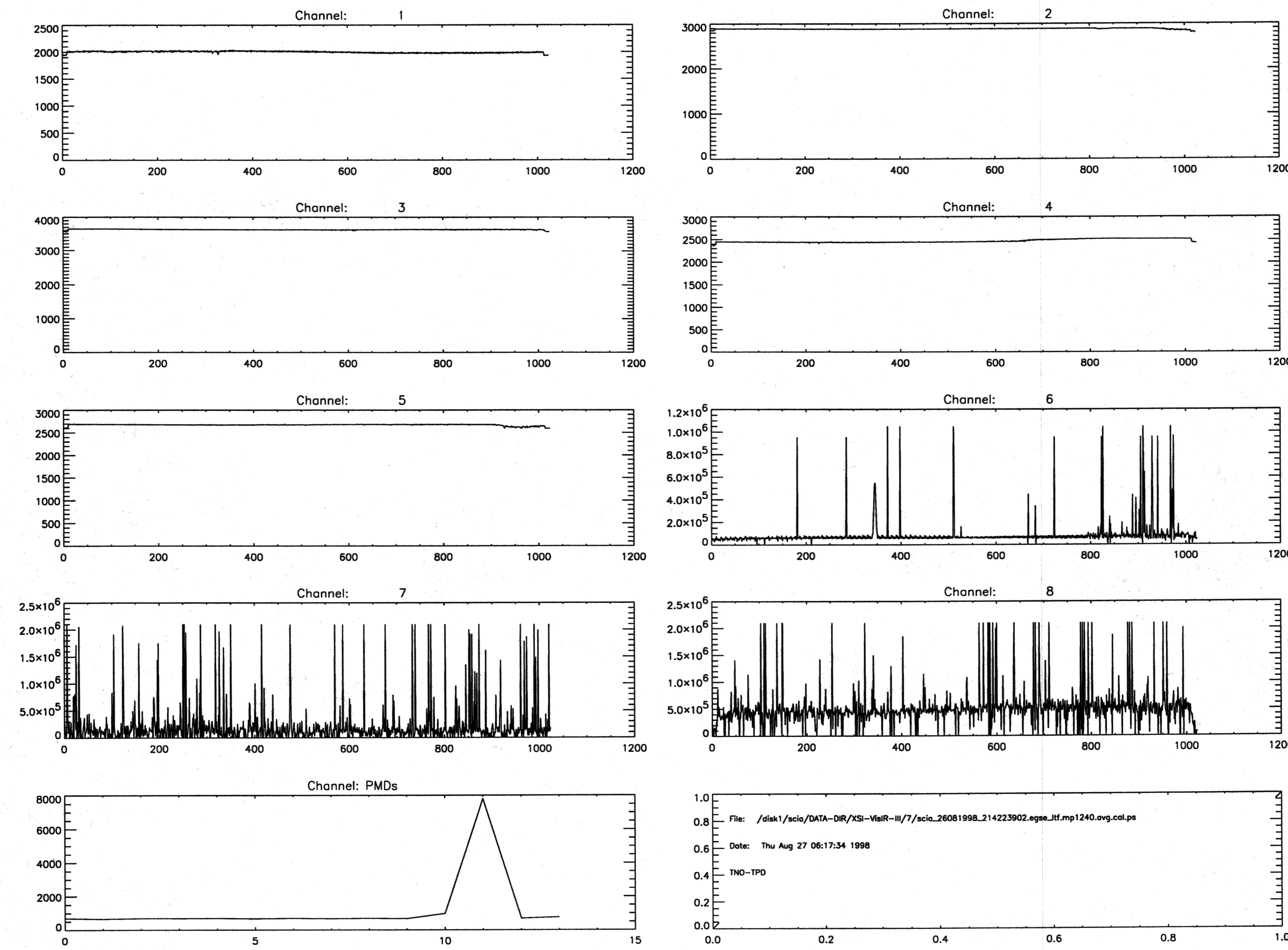
Sign:	Name	________________
	Date and time	________________

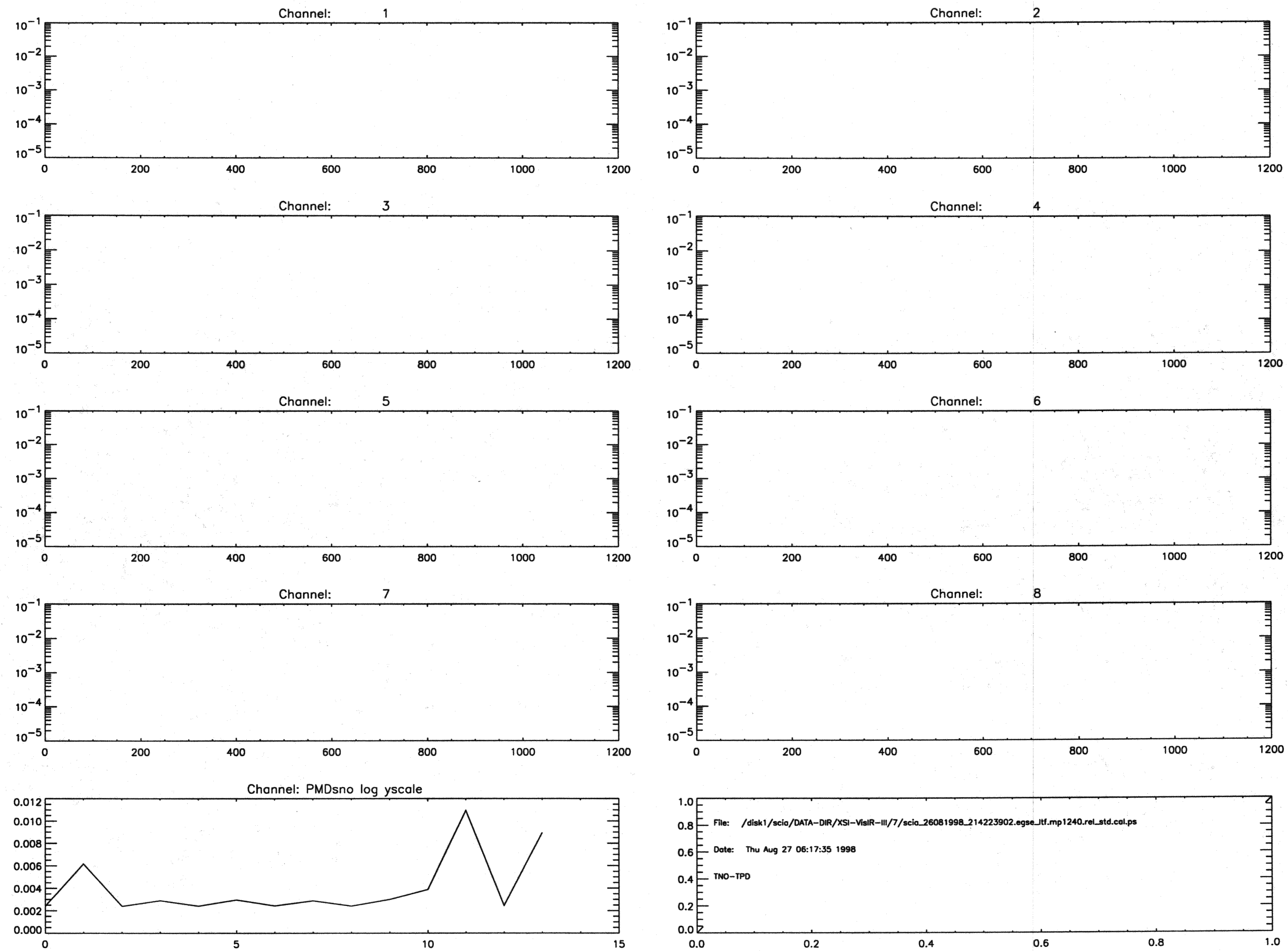


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.du1.avg.cal.ps
Date: Thu Aug 27 06:17:25 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.du1.rel_std.col.ps
Date: Thu Aug 27 06:17:26 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/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.du1.std.cal.ps
Date: Thu Aug 27 06:17:26 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/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1240.avg.cal.ps
Date: Thu Aug 27 06:17:34 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scio/DATA-DIR/XSI-VisIR-III/7/scio_26081998_214223902.egse_ltf.mp1240.rel_std.cal.ps
Date: Thu Aug 27 06:17:35 1998
TNO-TPD

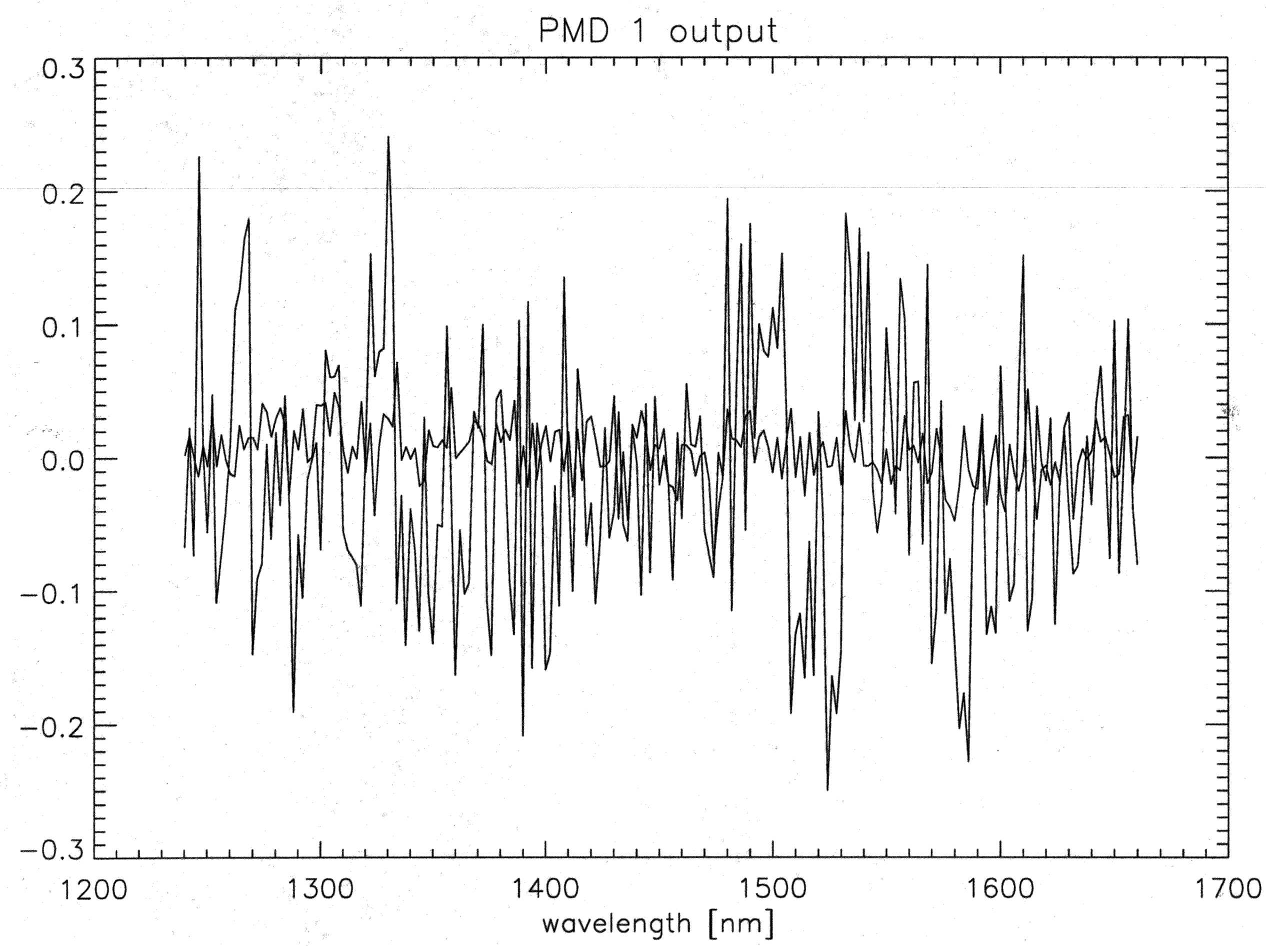
```
time        = Thu Aug 27 06:17:26 1998
batch       = du1
Start TOD = Wed 26-Aug-98 21:43:22
End   TOD = Wed 26-Aug-98 21:54:46
Processing= computation of average, standard dev. and rel.standard dev.
```

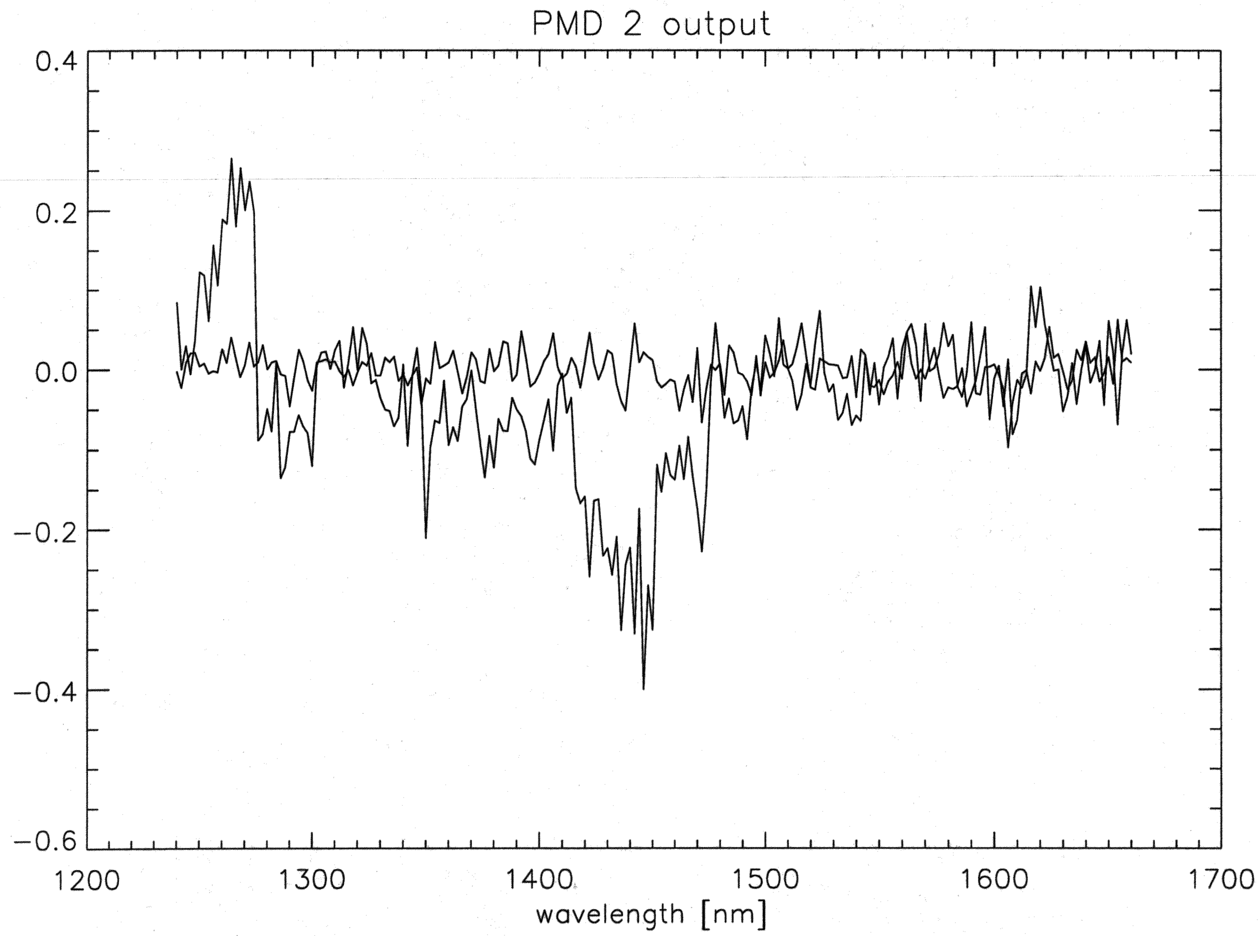
```
time        = Thu Aug 27 06:43:26 1998
batch       = du2
Start TOD = Thu 27-Aug-98 03:32:20
End   TOD = Thu 27-Aug-98 03:38:44
Processing= computation of average, standard dev. and rel.standard dev.
```

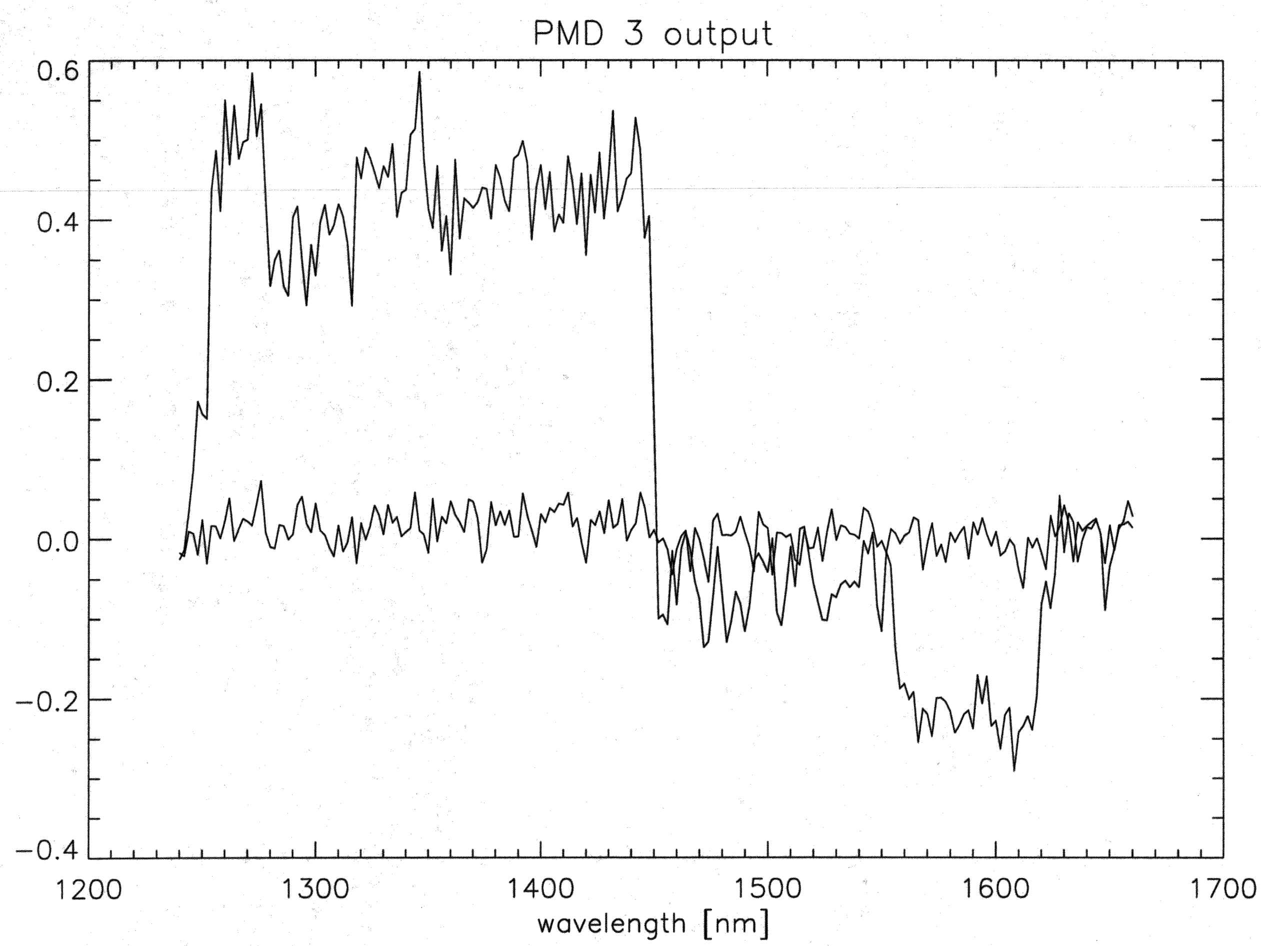
```
time        = Thu Aug 27 06:17:35 1998
batch       = mp1240
Start TOD = Wed 26-Aug-98 21:54:46
End   TOD = Wed 26-Aug-98 21:56:17
Processing= computation of average, standard dev. and rel.standard dev.
```

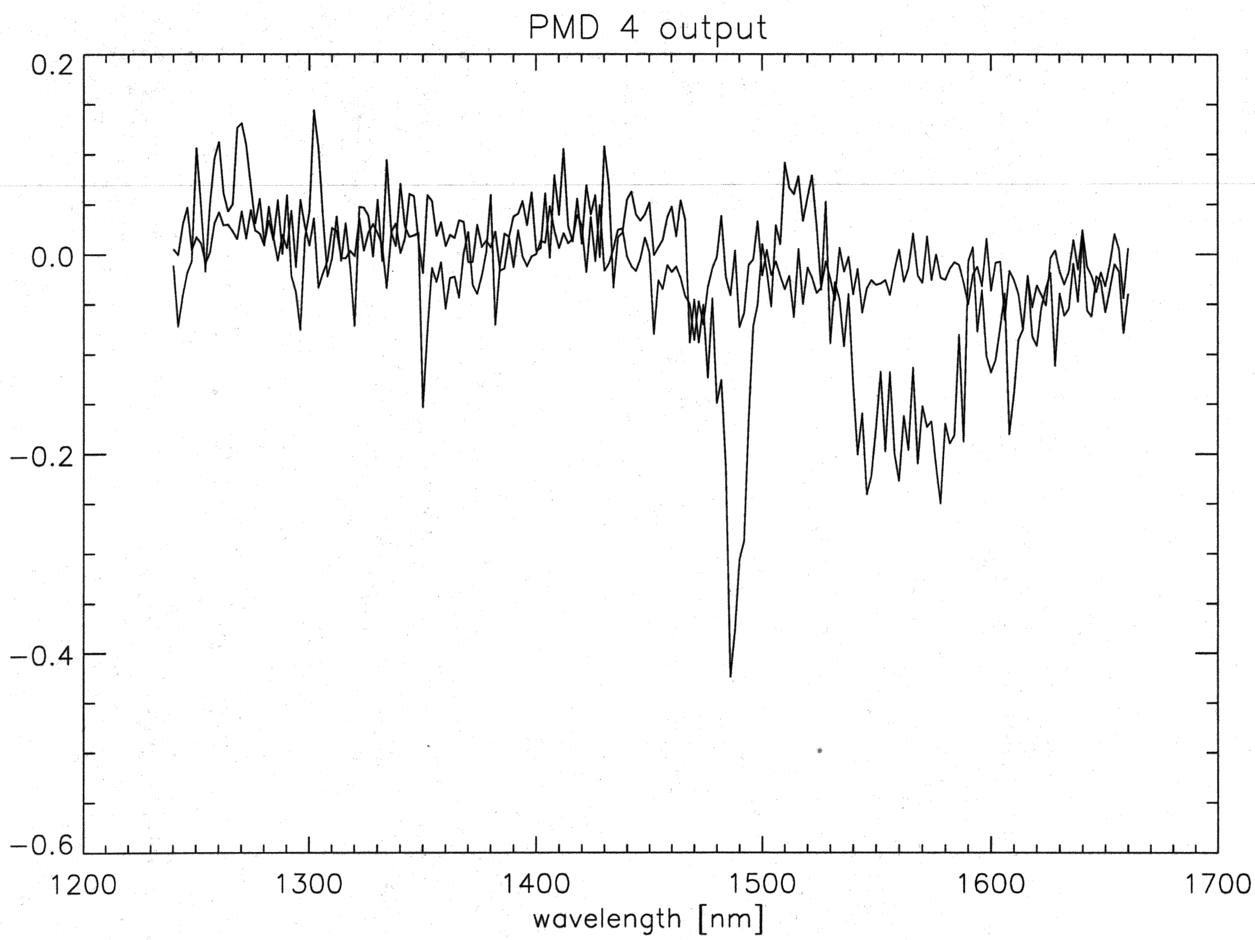
1240	1450	scia_26081998_214223902.egse_ltf.du1.avg.cal
1451	1660	scia_26081998_214223902.egse_ltf.du2.avg.cal

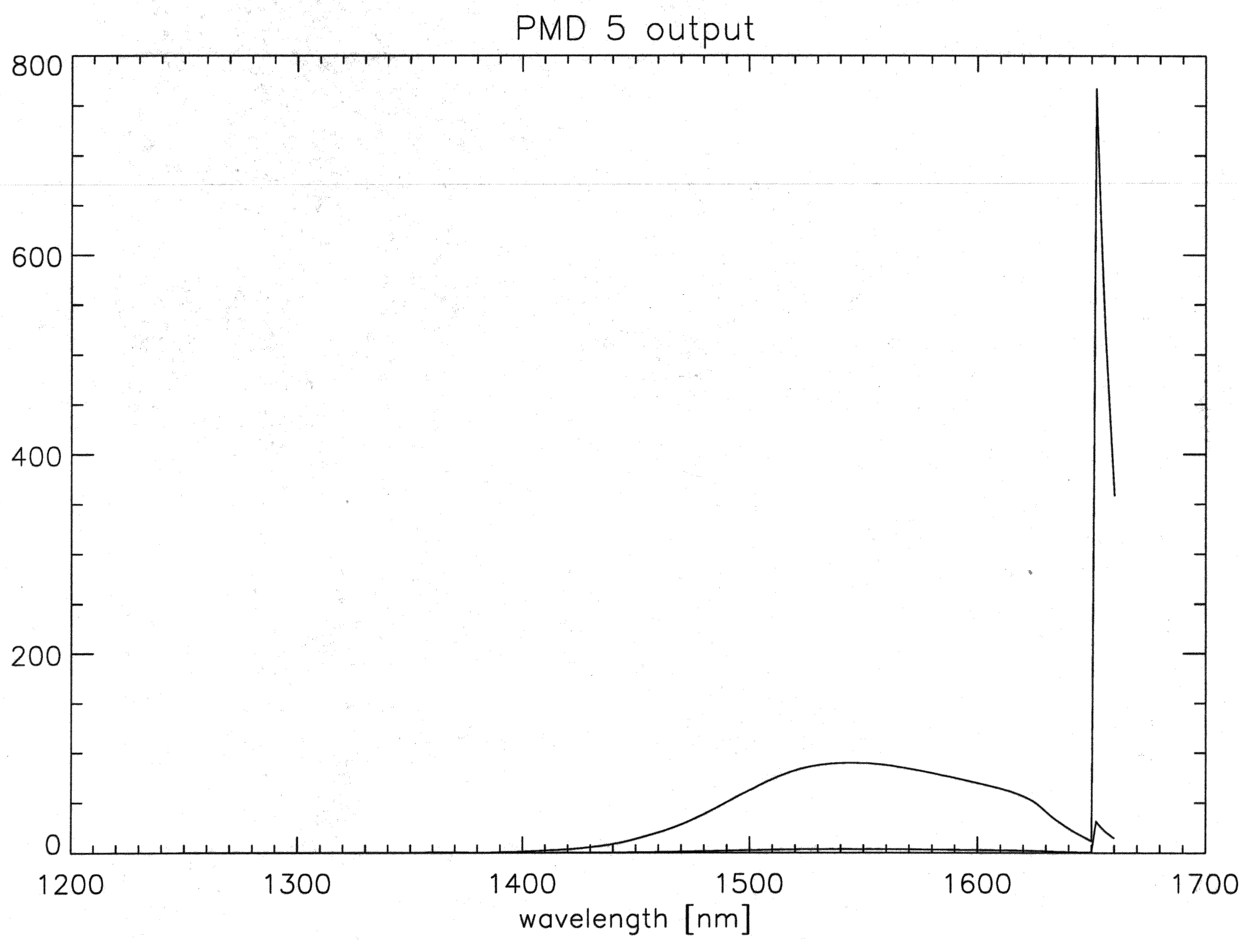
CONTROL - FILE

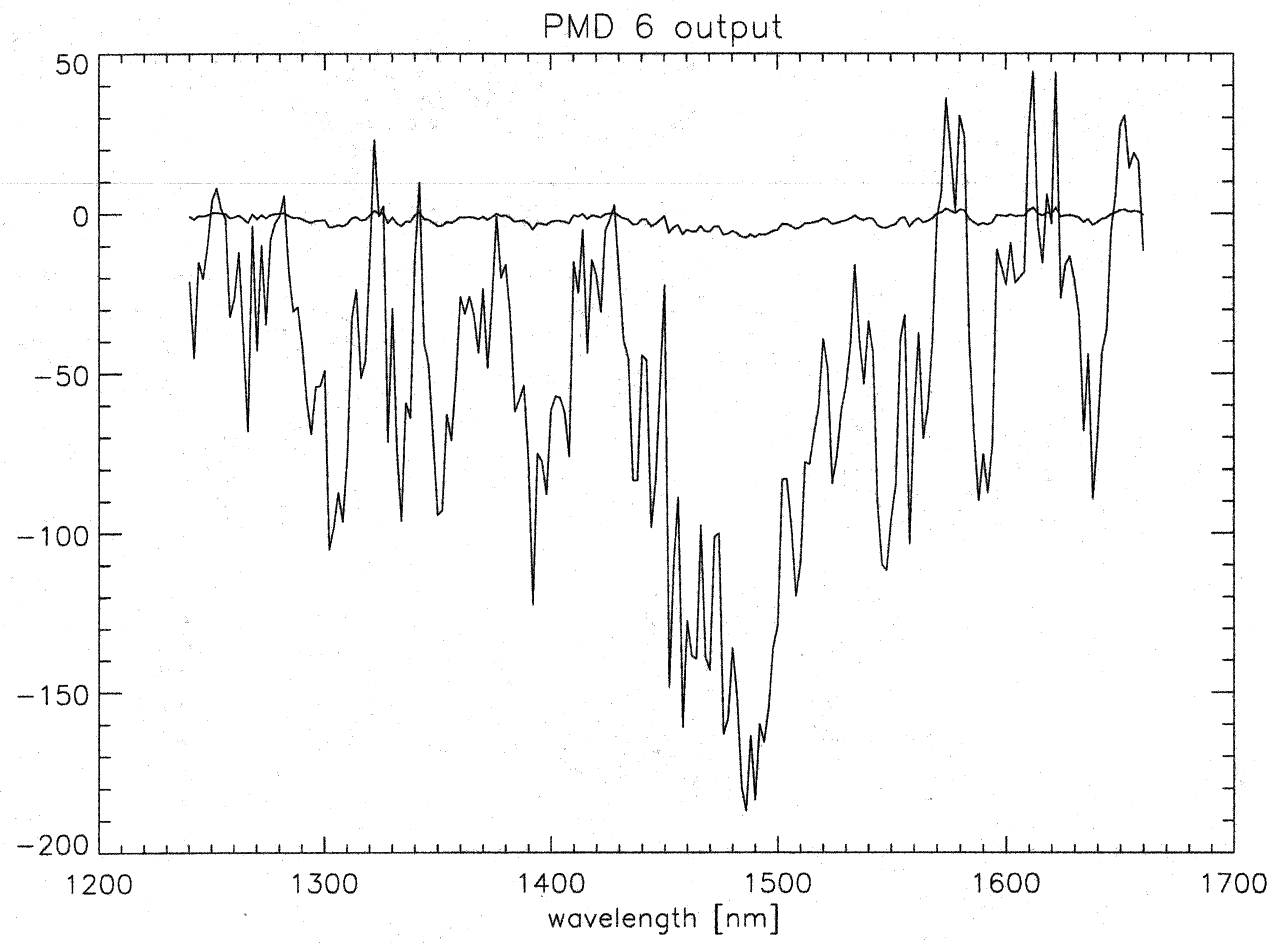

PMD 1 output
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
1200
1300
1400
1500
1600
1700
wavelength [nm]

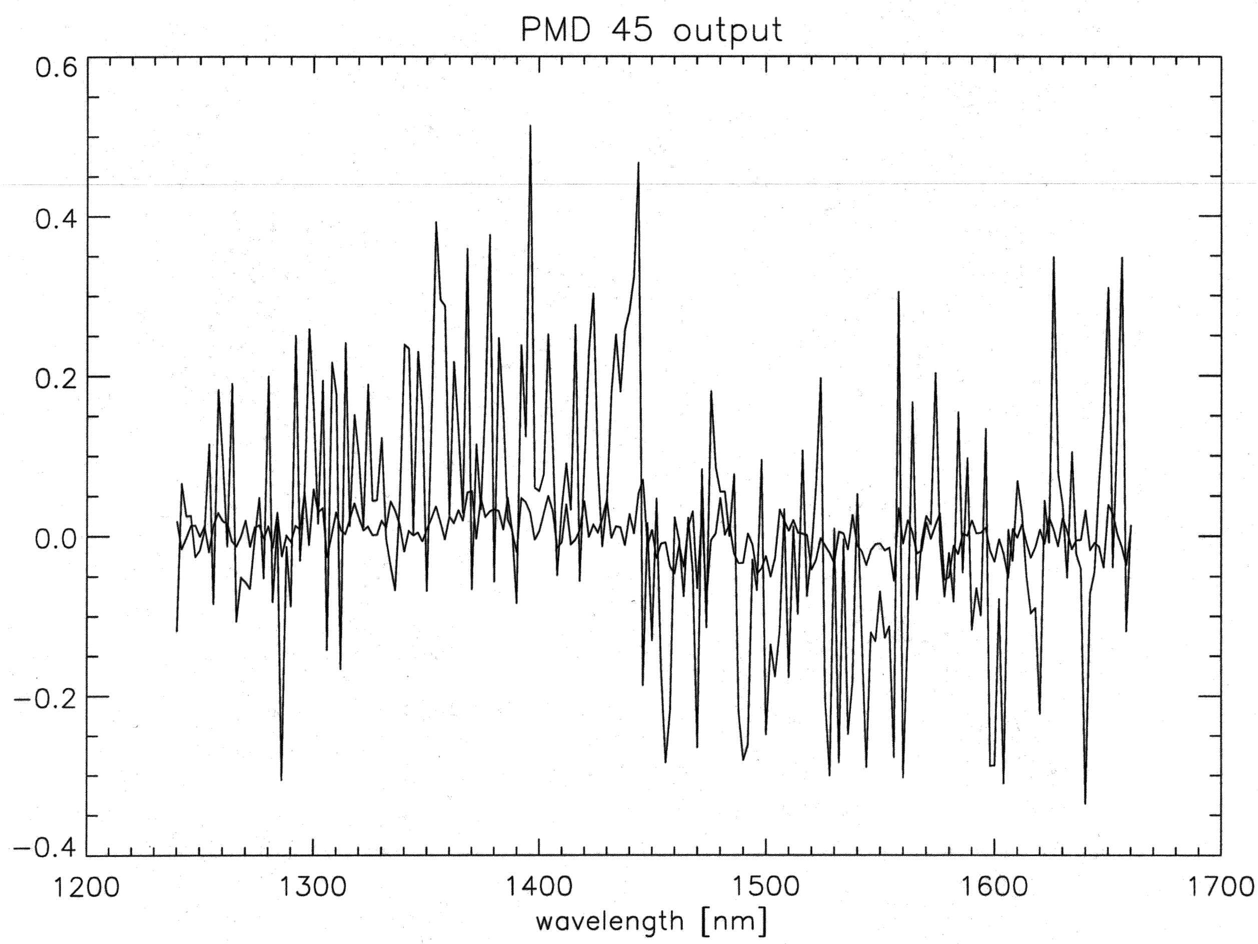

PMD 2 output
0.4
0.2
0.0
−0.2
−0.4
−0.6
1200
1300
1400
1500
1600
1700
wavelength [nm]

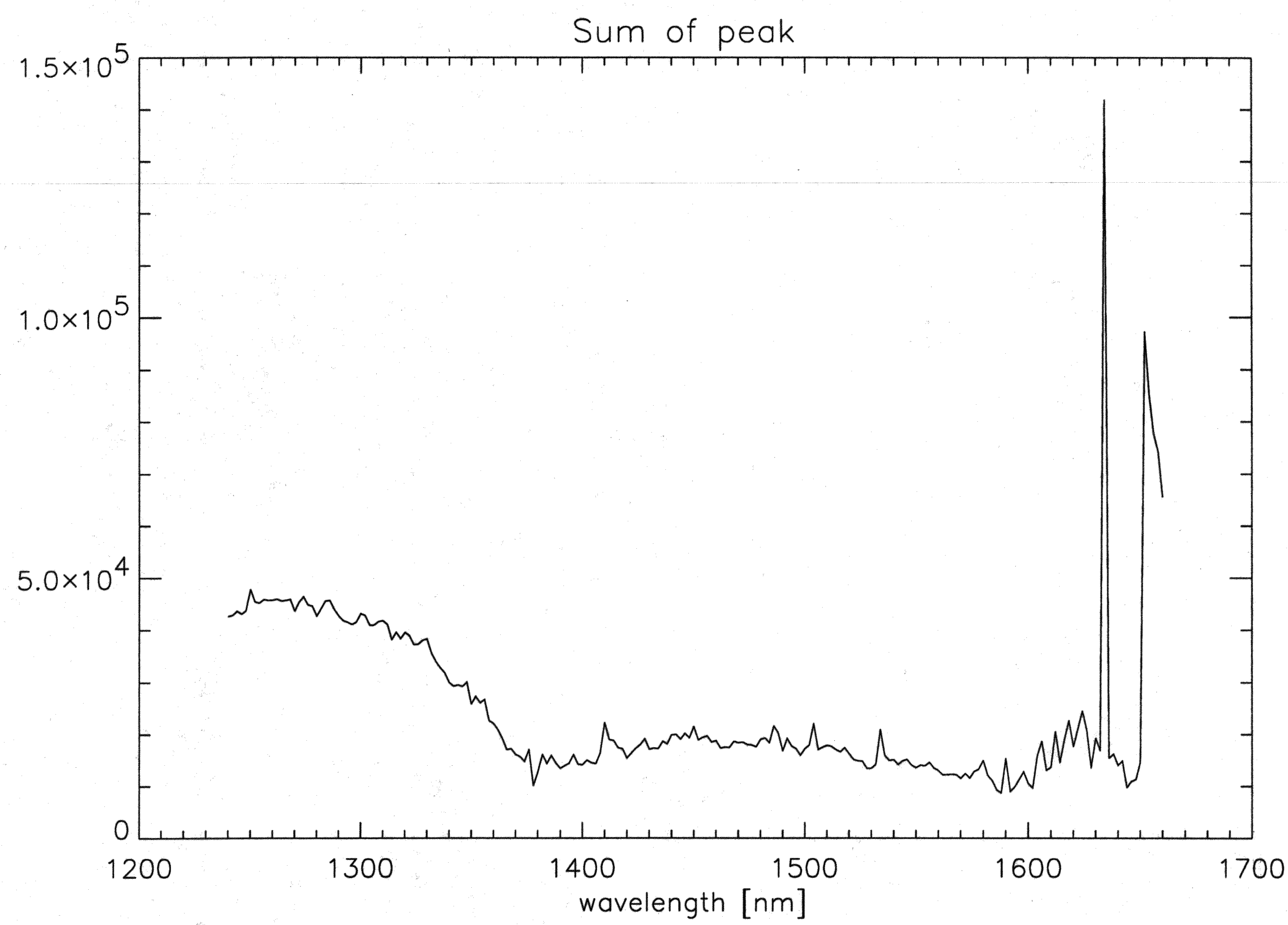

PMD 3 output
0.6
0.4
0.2
0.0
−0.2
−0.4
1200
1300
1400
1500
1600
1700
wavelength [nm]

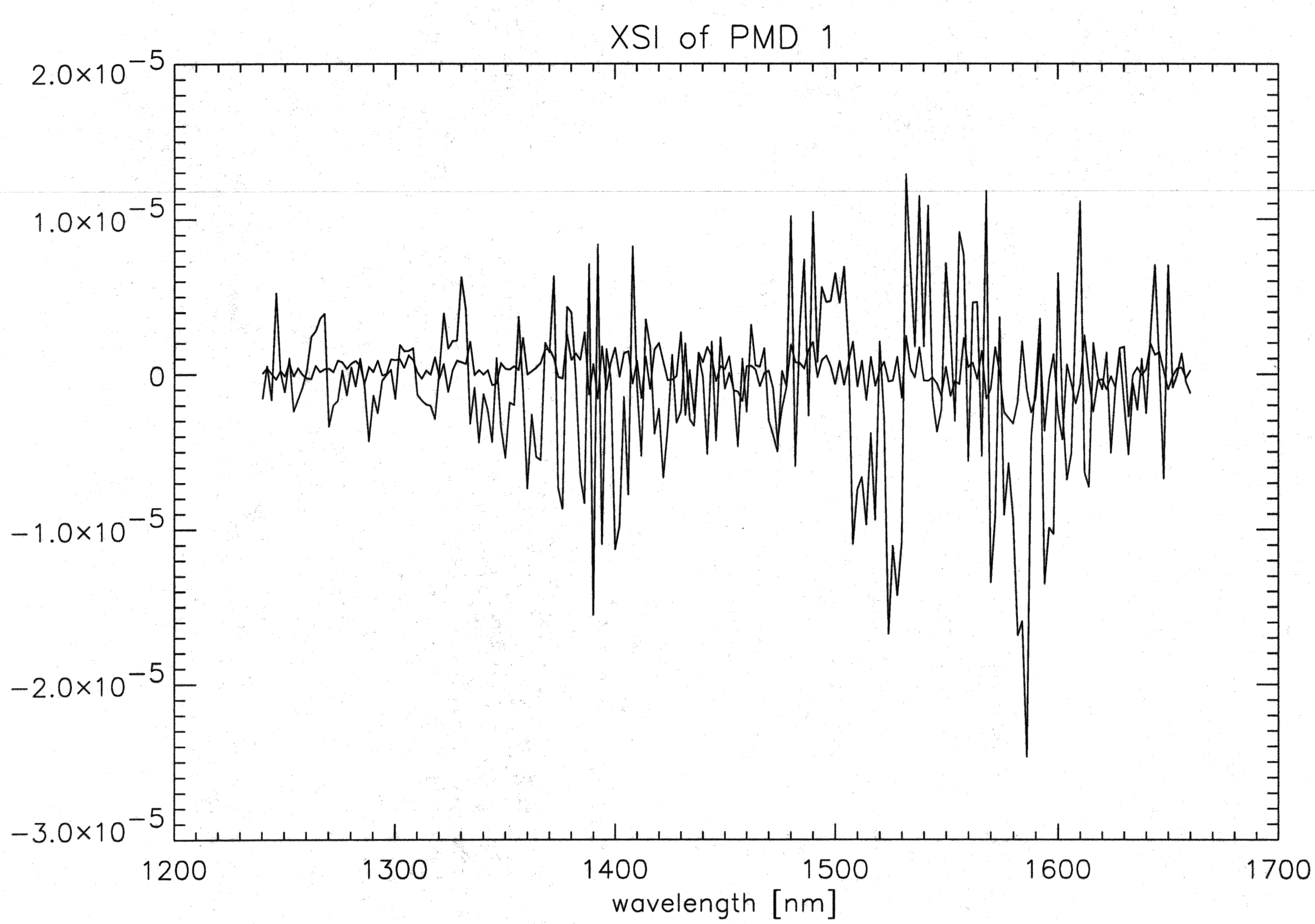

PMD 4 output
0.2
0.0
−0.2
−0.4
−0.6
1200
1300
1400
1500
1600
1700
wavelength [nm]


PMD 5 output
800
600
400
200
0
1200
1300
1400
1500
1600
1700
wavelength [nm]

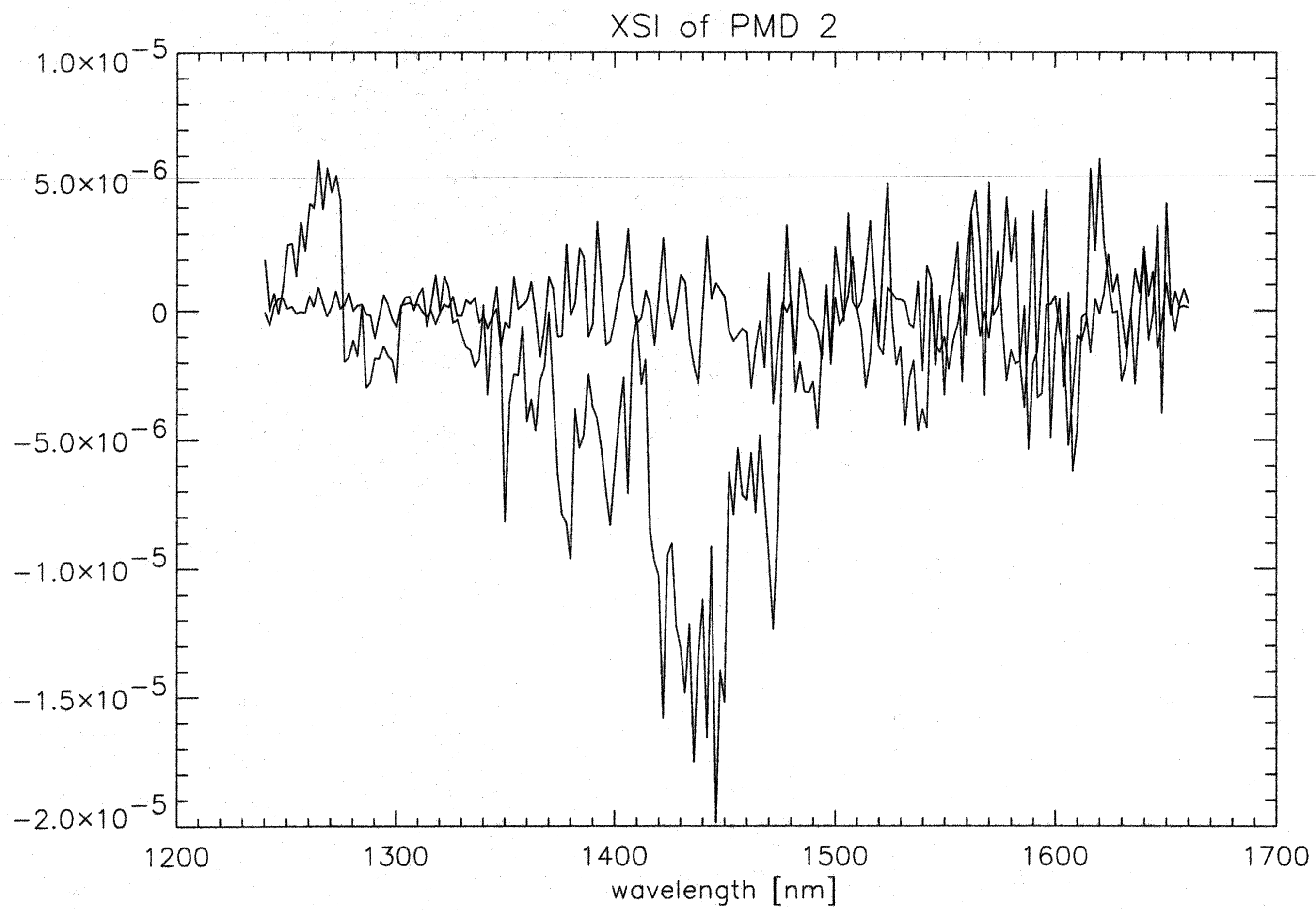

PMD 6 output
50
0
−50
−100
−150
−200
1200
1300
1400
1500
1600
1700
wavelength [nm]

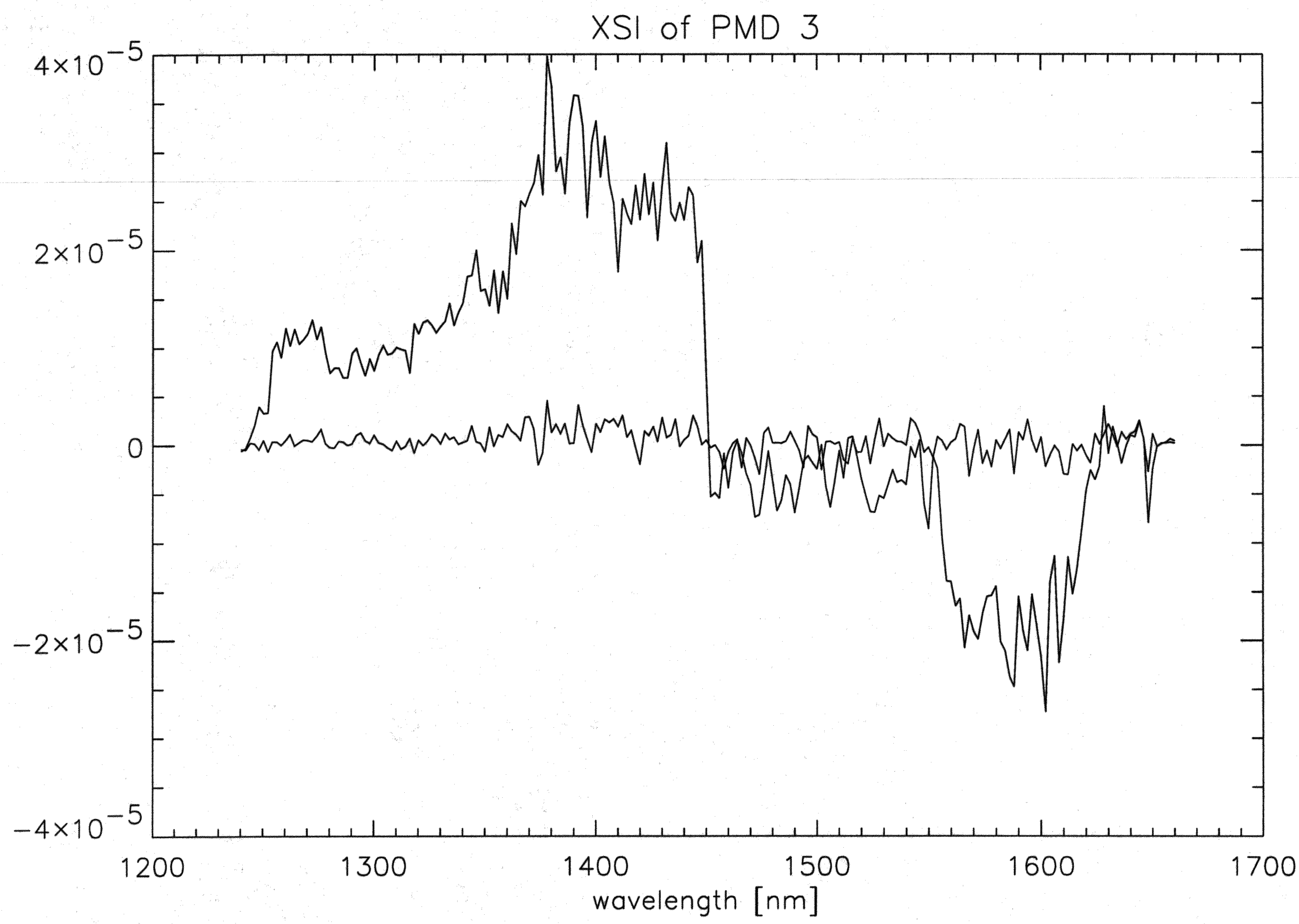

PMD 45 output
0.6
0.4
0.2
0.0
−0.2
−0.4
1200
1300
1400
1500
1600
1700
wavelength [nm]


Sum of peak
1.5×10^5
1.0×10^5
5.0×10^4
0
1200
1300
1400
1500
1600
1700
wavelength [nm]

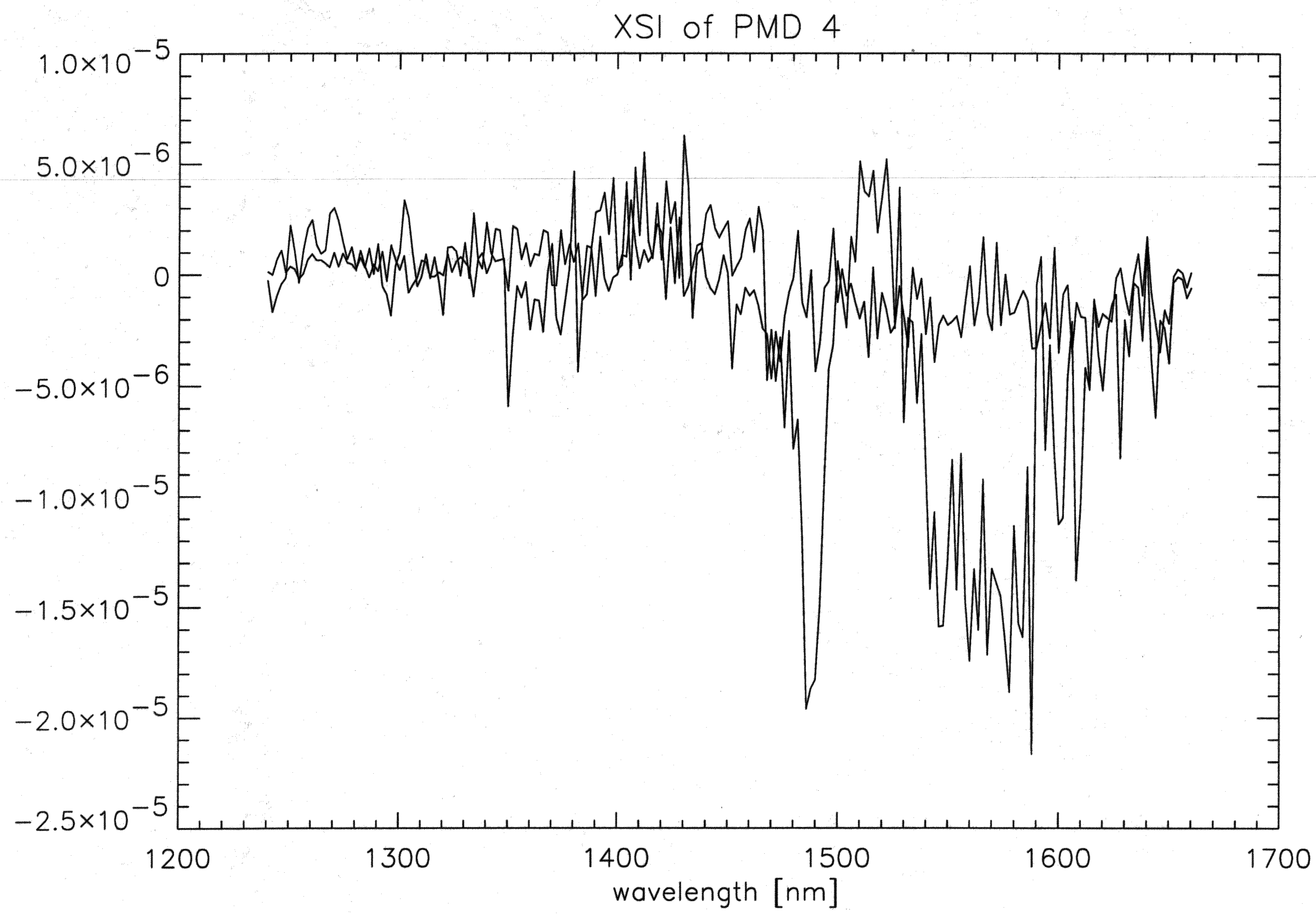


XSI of PMD 1
2.0×10^{-5}
1.0×10^{-5}
0
−1.0×10^{-5}
−2.0×10^{-5}
−3.0×10^{-5}
1200
1300
1400
1500
1600
1700
wavelength [nm]

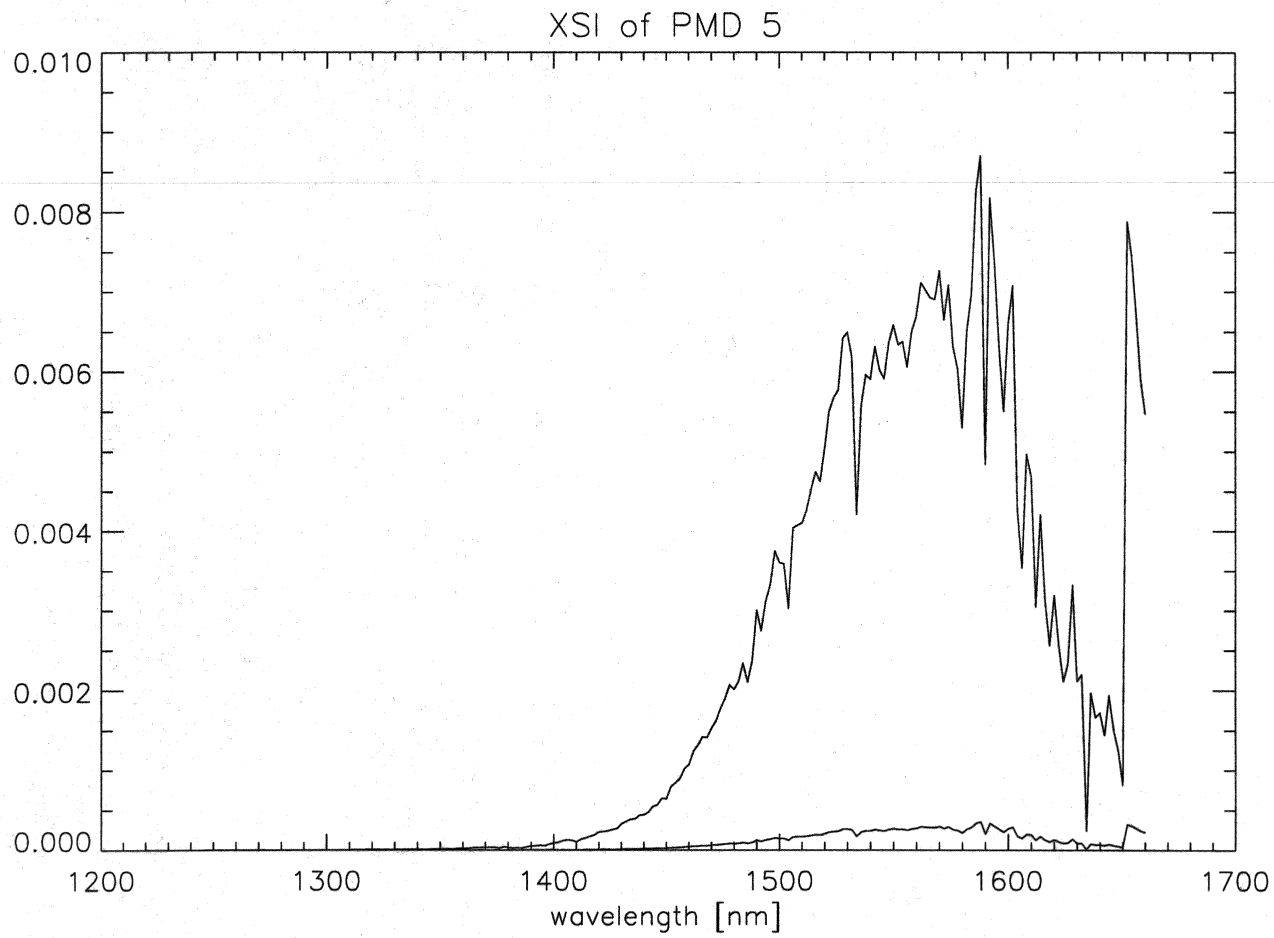

XSI of PMD 2
1.0×10⁻⁵
5.0×10⁻⁶
0
−5.0×10⁻⁶
−1.0×10⁻⁵
−1.5×10⁻⁵
−2.0×10⁻⁵
1200
1300
1400
1500
1600
1700
wavelength [nm]



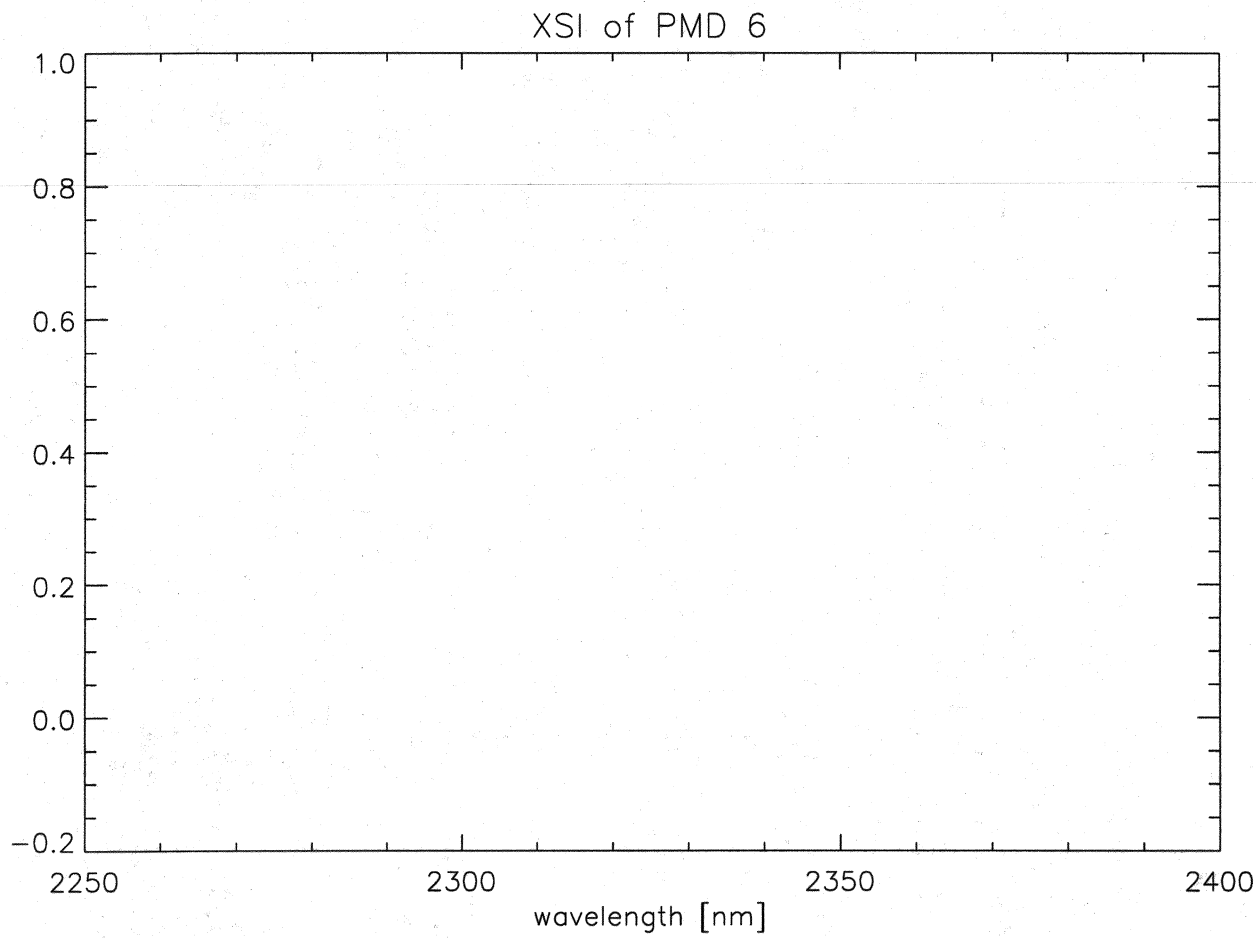
XSI of PMD 3
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
1200
1300
1400
1500
1600
1700
wavelength [nm]



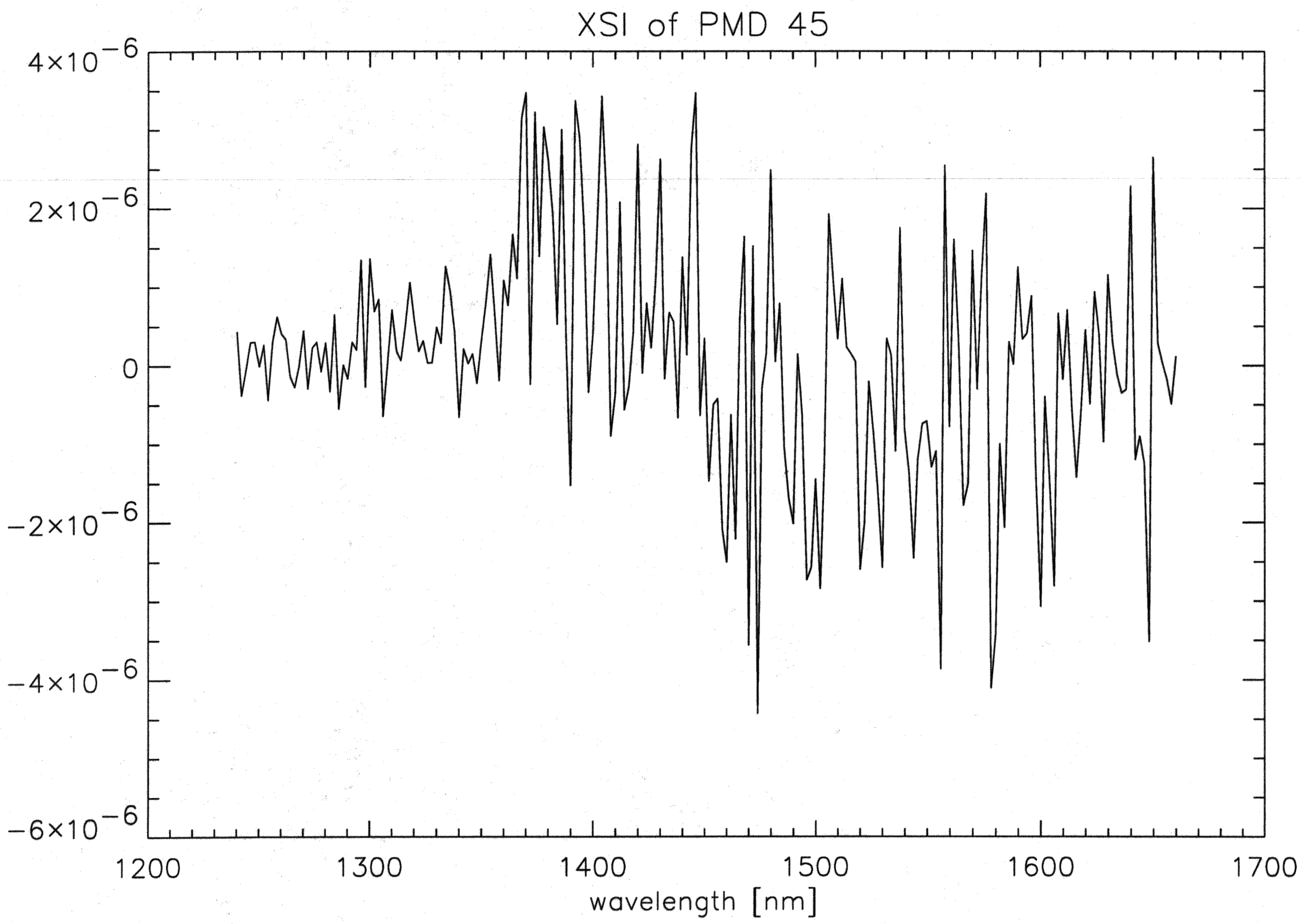
XSI of PMD 4
1.0×10^−5
5.0×10^−6
0
−5.0×10^−6
−1.0×10^−5
−1.5×10^−5
−2.0×10^−5
−2.5×10^−5
1200
1300
1400
1500
1600
1700
wavelength [nm]



XSI of PMD 5
0.010
0.008
0.006
0.004
0.002
0.000
1200
1300
1400
1500
1600
1700
wavelength [nm]



XSI of PMD 6
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
2250
2300
2350
2400
wavelength [nm]


XSI of PMD 45
4×10^−6
2×10^−6
0
−2×10^−6
−4×10^−6
−6×10^−6
1200
1300
1400
1500
1600
1700
wavelength [nm]

```
Version:  0.1
Input files:  /disk1/scia/DATA-DIR/XSI-VisIR-III/7/control-file
 scia_26081998_214223902.egse_ltf.du1.avg.cal
 scia_26081998_214223902.egse_ltf.du2.avg.cal
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1240.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1242.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1244.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1246.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1248.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1250.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1252.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1254.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1256.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1258.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1260.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1262.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1264.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1266.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1268.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1270.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1272.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1274.
   isk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1276.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1278.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1280.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1282.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1284.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1286.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1288.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1290.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1292.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1294.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1296.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1298.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1300.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1302.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1304.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1306.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1308.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1310.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1312.
   isk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1314.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1316.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1318.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1320.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1322.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1324.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1326.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1328.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1330.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1332.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1334.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1336.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1338.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1340.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1342.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1344.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1346.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1348.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1350.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1352.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1354.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1356.
 /disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1358.
```

```
/disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1360.
/disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1362.
/disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1364.
/disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1366.
/disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1368.
/disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1370.
/disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1372.
/disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1374.
/disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1376.
/disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1378.
/disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1380.
/disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1382.
/disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1384.
/disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1386.
/disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1388.
/disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1390.
/disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1392.
/disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1394.
/disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1396.
/disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1398.
/disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1400.
/disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1402.
disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1404.
/disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.mp1406.
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Processing:
Computation of XSI
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/200898/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/200898/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/200898/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/200898/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/200898/stray.da
Processing time: Thu Aug 27 08:20:31 1998
Output file name:
/disk1/scia/DATA-DIR/XSI-VisIR-III/7/scia_26081998_214223902.egse_ltf.du1.avg.
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XST - VisIR - III / 7

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mv 238y2056.doc f0.x
mv 238y2058.doc f1.x
mv 238y2123.xls f2.x
mv 238y2137.doc f3.x
mv 238y2139.doc f4.x
mv 239y0340.xls f5.x
mv 26082101.DAT f6.x
mv 26082142.DAT f7.x
mv WS_FTP.LOG f8.x
mv control-file f9.x
mv dapbchklog f10.x
mv dapbseqlog f11.x
mv egse.inf f12.x
mv gemsmpara.dat f13.x
mv hk_ccb.dat f14.x
mv scia_26081998_210147484.egse_ltf f15.x
mv scia_26081998_214223902.dat f16.x
mv scia_26081998_214223902.egse_ltf.du1.avg.cal f17.x
mv scia_26081998_214223902.egse_ltf.du1.avg.cal.ps f18.x
mv scia_26081998_214223902.egse_ltf.du1.avg.p1.cal f19.x
mv scia_26081998_214223902.egse_ltf.du1.avg.p1.cal.data f20.x
mv scia_26081998_214223902.egse_ltf.du1.avg.p1.cal.data.log f21.x
mv scia_26081998_214223902.egse_ltf.du1.avg.p1.cal.data.ps f22.x
mv scia_26081998_214223902.egse_ltf.du1.avg.p1.cal.data.ps.log f23.x
mv scia_26081998_214223902.egse_ltf.du1.log f24.x
mv scia_26081998_214223902.egse_ltf.du1.rel_std.cal f25.x
mv scia_26081998_214223902.egse_ltf.du1.rel_std.cal.ps f26.x
mv scia_26081998_214223902.egse_ltf.du1.std.cal f27.x
mv scia_26081998_214223902.egse_ltf.du1.std.cal.ps f28.x
mv scia_26081998_214223902.egse_ltf.du2.avg.cal f29.x
mv scia_26081998_214223902.egse_ltf.du2.log f30.x
mv scia_26081998_214223902.egse_ltf.mp1240.avg.cal f31.x
mv scia_26081998_214223902.egse_ltf.mp1240.avg.cal.ps f32.x
mv scia_26081998_214223902.egse_ltf.mp1240.log f33.x
mv scia_26081998_214223902.egse_ltf.mp1240.rel_std.cal f34.x
mv scia_26081998_214223902.egse_ltf.mp1240.rel_std.cal.ps f35.x
mv scia_26081998_214223902.egse_ltf.mp1240.std.cal f36.x
mv scia_26081998_214223902.egse_ltf.mp1240.std.cal.ps f37.x
mv scia_26081998_214223902.egse_ltf.mp1242.avg.cal f38.x
mv scia_26081998_214223902.egse_ltf.mp1242.avg.cal.ps f39.x
mv scia_26081998_214223902.egse_ltf.mp1242.log f40.x
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mv scia_26081998_214223902.egse_ltf.mp1258.avg.cal f59.x
mv scia_26081998_214223902.egse_ltf.mp1258.log f60.x
mv scia_26081998_214223902.egse_ltf.mp1260.avg.cal f61.x
mv scia_26081998_214223902.egse_ltf.mp1260.log f62.x
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mv scia_26081998_214223902.egse_ltf.mp1264.log f66.x
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mv scia_26081998_214223902.egse_ltf.mp1266.log f68.x
mv scia_26081998_214223902.egse_ltf.mp1268.avg.cal f69.x
mv scia_26081998_214223902.egse_ltf.mp1268.log f70.x
mv scia_26081998_214223902.egse_ltf.mp1270.avg.cal f71.x
mv scia_26081998_214223902.egse_ltf.mp1270.log f72.x
mv scia_26081998_214223902.egse_ltf.mp1272.avg.cal f73.x
mv scia_26081998_214223902.egse_ltf.mp1272.log f74.x
mv scia_26081998_214223902.egse_ltf.mp1274.avg.cal f75.x
mv scia_26081998_214223902.egse_ltf.mp1274.log f76.x
mv scia_26081998_214223902.egse_ltf.mp1276.avg.cal f77.x
mv scia_26081998_214223902.egse_ltf.mp1276.log f78.x
mv scia_26081998_214223902.egse_ltf.mp1278.avg.cal f79.x
mv scia_26081998_214223902.egse_ltf.mp1278.log f80.x
mv scia_26081998_214223902.egse_ltf.mp1280.avg.cal f81.x
mv scia_26081998_214223902.egse_ltf.mp1280.log f82.x
mv scia_26081998_214223902.egse_ltf.mp1282.avg.cal f83.x
mv scia_26081998_214223902.egse_ltf.mp1282.log f84.x
n  scia_26081998_214223902.egse_ltf.mp1284.avg.cal f85.x
mv scia_26081998_214223902.egse_ltf.mp1284.log f86.x
mv scia_26081998_214223902.egse_ltf.mp1286.avg.cal f87.x
mv scia_26081998_214223902.egse_ltf.mp1286.log f88.x
mv scia_26081998_214223902.egse_ltf.mp1288.avg.cal f89.x
mv scia_26081998_214223902.egse_ltf.mp1288.log f90.x
mv scia_26081998_214223902.egse_ltf.mp1290.avg.cal f91.x
mv scia_26081998_214223902.egse_ltf.mp1290.log f92.x
mv scia_26081998_214223902.egse_ltf.mp1292.avg.cal f93.x
mv scia_26081998_214223902.egse_ltf.mp1292.log f94.x
mv scia_26081998_214223902.egse_ltf.mp1294.avg.cal f95.x
mv scia_26081998_214223902.egse_ltf.mp1294.log f96.x
mv scia_26081998_214223902.egse_ltf.mp1296.avg.cal f97.x
mv scia_26081998_214223902.egse_ltf.mp1296.log f98.x
mv scia_26081998_214223902.egse_ltf.mp1298.avg.cal f99.x
mv scia_26081998_214223902.egse_ltf.mp1298.log f100.x
mv scia_26081998_214223902.egse_ltf.mp1300.avg.cal f101.x
mv scia_26081998_214223902.egse_ltf.mp1300.log f102.x
mv scia_26081998_214223902.egse_ltf.mp1302.avg.cal f103.x
r  scia_26081998_214223902.egse_ltf.mp1302.log f104.x
mv scia_26081998_214223902.egse_ltf.mp1304.avg.cal f105.x
mv scia_26081998_214223902.egse_ltf.mp1304.log f106.x
mv scia_26081998_214223902.egse_ltf.mp1306.avg.cal f107.x
mv scia_26081998_214223902.egse_ltf.mp1306.log f108.x
mv scia_26081998_214223902.egse_ltf.mp1308.avg.cal f109.x
mv scia_26081998_214223902.egse_ltf.mp1308.log f110.x
mv scia_26081998_214223902.egse_ltf.mp1310.avg.cal f111.x
mv scia_26081998_214223902.egse_ltf.mp1310.log f112.x
mv scia_26081998_214223902.egse_ltf.mp1312.avg.cal f113.x
mv scia_26081998_214223902.egse_ltf.mp1312.log f114.x
mv scia_26081998_214223902.egse_ltf.mp1314.avg.cal f115.x
mv scia_26081998_214223902.egse_ltf.mp1314.log f116.x
mv scia_26081998_214223902.egse_ltf.mp1316.avg.cal f117.x
mv scia_26081998_214223902.egse_ltf.mp1316.log f118.x
mv scia_26081998_214223902.egse_ltf.mp1318.avg.cal f119.x
mv scia_26081998_214223902.egse_ltf.mp1318.log f120.x
mv scia_26081998_214223902.egse_ltf.mp1320.avg.cal f121.x
mv scia_26081998_214223902.egse_ltf.mp1320.log f122.x
mv scia_26081998_214223902.egse_ltf.mp1322.avg.cal f123.x
mv scia_26081998_214223902.egse_ltf.mp1322.log f124.x
mv scia_26081998_214223902.egse_ltf.mp1324.avg.cal f125.x
mv scia_26081998_214223902.egse_ltf.mp1324.log f126.x
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mv scia_26081998_214223902.egse_ltf.mp1326.avg.cal f127.x
mv scia_26081998_214223902.egse_ltf.mp1326.log f128.x
mv scia_26081998_214223902.egse_ltf.mp1328.avg.cal f129.x
mv scia_26081998_214223902.egse_ltf.mp1328.log f130.x
mv scia_26081998_214223902.egse_ltf.mp1330.avg.cal f131.x
mv scia_26081998_214223902.egse_ltf.mp1330.log f132.x
mv scia_26081998_214223902.egse_ltf.mp1332.avg.cal f133.x
mv scia_26081998_214223902.egse_ltf.mp1332.log f134.x
mv scia_26081998_214223902.egse_ltf.mp1334.avg.cal f135.x
mv scia_26081998_214223902.egse_ltf.mp1334.log f136.x
mv scia_26081998_214223902.egse_ltf.mp1336.avg.cal f137.x
mv scia_26081998_214223902.egse_ltf.mp1336.log f138.x
mv scia_26081998_214223902.egse_ltf.mp1338.avg.cal f139.x
mv scia_26081998_214223902.egse_ltf.mp1338.log f140.x
mv scia_26081998_214223902.egse_ltf.mp1340.avg.cal f141.x
mv scia_26081998_214223902.egse_ltf.mp1340.log f142.x
mv scia_26081998_214223902.egse_ltf.mp1342.avg.cal f143.x
mv scia_26081998_214223902.egse_ltf.mp1342.log f144.x
mv scia_26081998_214223902.egse_ltf.mp1344.avg.cal f145.x
mv scia_26081998_214223902.egse_ltf.mp1344.log f146.x
mv scia_26081998_214223902.egse_ltf.mp1346.avg.cal f147.x
mv scia_26081998_214223902.egse_ltf.mp1346.log f148.x
r  scia_26081998_214223902.egse_ltf.mp1348.avg.cal f149.x
mv scia_26081998_214223902.egse_ltf.mp1348.log f150.x
mv scia_26081998_214223902.egse_ltf.mp1350.avg.cal f151.x
mv scia_26081998_214223902.egse_ltf.mp1350.log f152.x
mv scia_26081998_214223902.egse_ltf.mp1352.avg.cal f153.x
mv scia_26081998_214223902.egse_ltf.mp1352.log f154.x
mv scia_26081998_214223902.egse_ltf.mp1354.avg.cal f155.x
mv scia_26081998_214223902.egse_ltf.mp1354.log f156.x
mv scia_26081998_214223902.egse_ltf.mp1356.avg.cal f157.x
mv scia_26081998_214223902.egse_ltf.mp1356.log f158.x
mv scia_26081998_214223902.egse_ltf.mp1358.avg.cal f159.x
mv scia_26081998_214223902.egse_ltf.mp1358.log f160.x
mv scia_26081998_214223902.egse_ltf.mp1360.avg.cal f161.x
mv scia_26081998_214223902.egse_ltf.mp1360.log f162.x
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mv scia_26081998_214223902.egse_ltf.mp1362.log f164.x
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mv scia_26081998_214223902.egse_ltf.mp1364.log f166.x
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r  scia_26081998_214223902.egse_ltf.mp1366.log f168.x
mv scia_26081998_214223902.egse_ltf.mp1368.avg.cal f169.x
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mv scia_26081998_214223902.egse_ltf.mp1376.avg.cal f177.x
mv scia_26081998_214223902.egse_ltf.mp1376.log f178.x
mv scia_26081998_214223902.egse_ltf.mp1378.avg.cal f179.x
mv scia_26081998_214223902.egse_ltf.mp1378.log f180.x
mv scia_26081998_214223902.egse_ltf.mp1380.avg.cal f181.x
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mv scia_26081998_214223902.egse_ltf.mp1382.log f184.x
mv scia_26081998_214223902.egse_ltf.mp1384.avg.cal f185.x
mv scia_26081998_214223902.egse_ltf.mp1384.log f186.x
mv scia_26081998_214223902.egse_ltf.mp1386.avg.cal f187.x
mv scia_26081998_214223902.egse_ltf.mp1386.log f188.x
mv scia_26081998_214223902.egse_ltf.mp1388.avg.cal f189.x
mv scia_26081998_214223902.egse_ltf.mp1388.log f190.x
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mv scia_26081998_214223902.egse_ltf.mp1390.avg.cal f191.x
mv scia_26081998_214223902.egse_ltf.mp1390.log f192.x
mv scia_26081998_214223902.egse_ltf.mp1392.avg.cal f193.x
mv scia_26081998_214223902.egse_ltf.mp1392.log f194.x
mv scia_26081998_214223902.egse_ltf.mp1394.avg.cal f195.x
mv scia_26081998_214223902.egse_ltf.mp1394.log f196.x
mv scia_26081998_214223902.egse_ltf.mp1396.avg.cal f197.x
mv scia_26081998_214223902.egse_ltf.mp1396.log f198.x
mv scia_26081998_214223902.egse_ltf.mp1398.avg.cal f199.x
mv scia_26081998_214223902.egse_ltf.mp1398.log f200.x
mv scia_26081998_214223902.egse_ltf.mp1400.avg.cal f201.x
mv scia_26081998_214223902.egse_ltf.mp1400.log f202.x
mv scia_26081998_214223902.egse_ltf.mp1402.avg.cal f203.x
mv scia_26081998_214223902.egse_ltf.mp1402.log f204.x
mv scia_26081998_214223902.egse_ltf.mp1404.avg.cal f205.x
mv scia_26081998_214223902.egse_ltf.mp1404.log f206.x
mv scia_26081998_214223902.egse_ltf.mp1406.avg.cal f207.x
mv scia_26081998_214223902.egse_ltf.mp1406.log f208.x
mv scia_26081998_214223902.egse_ltf.mp1408.avg.cal f209.x
mv scia_26081998_214223902.egse_ltf.mp1408.log f210.x
mv scia_26081998_214223902.egse_ltf.mp1410.avg.cal f211.x
mv scia_26081998_214223902.egse_ltf.mp1410.log f212.x
n  scia_26081998_214223902.egse_ltf.mp1412.avg.cal f213.x
mv scia_26081998_214223902.egse_ltf.mp1412.log f214.x
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mv scia_26081998_214223902.egse_ltf.mp1416.avg.cal f217.x
mv scia_26081998_214223902.egse_ltf.mp1416.log f218.x
mv scia_26081998_214223902.egse_ltf.mp1418.avg.cal f219.x
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mv scia_26081998_214223902.egse_ltf.mp1420.avg.cal f221.x
mv scia_26081998_214223902.egse_ltf.mp1420.log f222.x
mv scia_26081998_214223902.egse_ltf.mp1422.avg.cal f223.x
mv scia_26081998_214223902.egse_ltf.mp1422.log f224.x
mv scia_26081998_214223902.egse_ltf.mp1424.avg.cal f225.x
mv scia_26081998_214223902.egse_ltf.mp1424.log f226.x
mv scia_26081998_214223902.egse_ltf.mp1426.avg.cal f227.x
mv scia_26081998_214223902.egse_ltf.mp1426.log f228.x
mv scia_26081998_214223902.egse_ltf.mp1428.avg.cal f229.x
mv scia_26081998_214223902.egse_ltf.mp1428.log f230.x
mv scia_26081998_214223902.egse_ltf.mp1430.avg.cal f231.x
I  scia_26081998_214223902.egse_ltf.mp1430.log f232.x
mv scia_26081998_214223902.egse_ltf.mp1432.avg.cal f233.x
mv scia_26081998_214223902.egse_ltf.mp1432.log f234.x
mv scia_26081998_214223902.egse_ltf.mp1434.avg.cal f235.x
mv scia_26081998_214223902.egse_ltf.mp1434.log f236.x
mv scia_26081998_214223902.egse_ltf.mp1436.avg.cal f237.x
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mv scia_26081998_214223902.egse_ltf.mp1438.avg.cal f239.x
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mv scia_26081998_214223902.egse_ltf.mp1442.avg.cal f243.x
mv scia_26081998_214223902.egse_ltf.mp1442.log f244.x
mv scia_26081998_214223902.egse_ltf.mp1444.avg.cal f245.x
mv scia_26081998_214223902.egse_ltf.mp1444.log f246.x
mv scia_26081998_214223902.egse_ltf.mp1446.avg.cal f247.x
mv scia_26081998_214223902.egse_ltf.mp1446.log f248.x
mv scia_26081998_214223902.egse_ltf.mp1448.avg.cal f249.x
mv scia_26081998_214223902.egse_ltf.mp1448.log f250.x
mv scia_26081998_214223902.egse_ltf.mp1450.avg.cal f251.x
mv scia_26081998_214223902.egse_ltf.mp1450.log f252.x
mv scia_26081998_214223902.egse_ltf.mp1452.avg.cal f253.x
mv scia_26081998_214223902.egse_ltf.mp1452.log f254.x
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mv scia_26081998_214223902.egse_ltf.mp1454.avg.cal f255.x
mv scia_26081998_214223902.egse_ltf.mp1454.log f256.x
mv scia_26081998_214223902.egse_ltf.mp1456.avg.cal f257.x
mv scia_26081998_214223902.egse_ltf.mp1456.log f258.x
mv scia_26081998_214223902.egse_ltf.mp1458.avg.cal f259.x
mv scia_26081998_214223902.egse_ltf.mp1458.log f260.x
mv scia_26081998_214223902.egse_ltf.mp1460.avg.cal f261.x
mv scia_26081998_214223902.egse_ltf.mp1460.log f262.x
mv scia_26081998_214223902.egse_ltf.mp1462.avg.cal f263.x
mv scia_26081998_214223902.egse_ltf.mp1462.log f264.x
mv scia_26081998_214223902.egse_ltf.mp1464.avg.cal f265.x
mv scia_26081998_214223902.egse_ltf.mp1464.log f266.x
mv scia_26081998_214223902.egse_ltf.mp1466.avg.cal f267.x
mv scia_26081998_214223902.egse_ltf.mp1466.log f268.x
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mv scia_26081998_214223902.egse_ltf.mp1472.log f274.x
mv scia_26081998_214223902.egse_ltf.mp1474.avg.cal f275.x
mv scia_26081998_214223902.egse_ltf.mp1474.log f276.x
mv scia_26081998_214223902.egse_ltf.mp1476.avg.cal f277.x
mv scia_26081998_214223902.egse_ltf.mp1476.log f278.x
mv scia_26081998_214223902.egse_ltf.mp1478.avg.cal f279.x
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mv scia_26081998_214223902.egse_ltf.mp1502.avg.cal f303.x
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mv scia_26081998_214223902.egse_ltf.mp1506.log f308.x
mv scia_26081998_214223902.egse_ltf.mp1508.avg.cal f309.x
mv scia_26081998_214223902.egse_ltf.mp1508.log f310.x
mv scia_26081998_214223902.egse_ltf.mp1510.avg.cal f311.x
mv scia_26081998_214223902.egse_ltf.mp1510.log f312.x
mv scia_26081998_214223902.egse_ltf.mp1512.avg.cal f313.x
mv scia_26081998_214223902.egse_ltf.mp1512.log f314.x
mv scia_26081998_214223902.egse_ltf.mp1514.avg.cal f315.x
mv scia_26081998_214223902.egse_ltf.mp1514.log f316.x
mv scia_26081998_214223902.egse_ltf.mp1516.avg.cal f317.x
mv scia_26081998_214223902.egse_ltf.mp1516.log f318.x
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mv scia_26081998_214223902.egse_ltf.mp1518.avg.cal f319.x
mv scia_26081998_214223902.egse_ltf.mp1518.log f320.x
mv scia_26081998_214223902.egse_ltf.mp1520.avg.cal f321.x
mv scia_26081998_214223902.egse_ltf.mp1520.log f322.x
mv scia_26081998_214223902.egse_ltf.mp1522.avg.cal f323.x
mv scia_26081998_214223902.egse_ltf.mp1522.log f324.x
mv scia_26081998_214223902.egse_ltf.mp1524.avg.cal f325.x
mv scia_26081998_214223902.egse_ltf.mp1524.log f326.x
mv scia_26081998_214223902.egse_ltf.mp1526.avg.cal f327.x
mv scia_26081998_214223902.egse_ltf.mp1526.log f328.x
mv scia_26081998_214223902.egse_ltf.mp1528.avg.cal f329.x
mv scia_26081998_214223902.egse_ltf.mp1528.log f330.x
mv scia_26081998_214223902.egse_ltf.mp1530.avg.cal f331.x
mv scia_26081998_214223902.egse_ltf.mp1530.log f332.x
mv scia_26081998_214223902.egse_ltf.mp1532.avg.cal f333.x
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mv scia_26081998_214223902.egse_ltf.mp1544.log f346.x
mv scia_26081998_214223902.egse_ltf.mp1546.avg.cal f347.x
mv scia_26081998_214223902.egse_ltf.mp1546.log f348.x
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mv scia_26081998_214223902.egse_ltf.mp1642.log f444.x
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mv scia_26081998_214223902.egse_ltf.mp1652.log f454.x
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mv scia_27081998_020200813.dat f464.x
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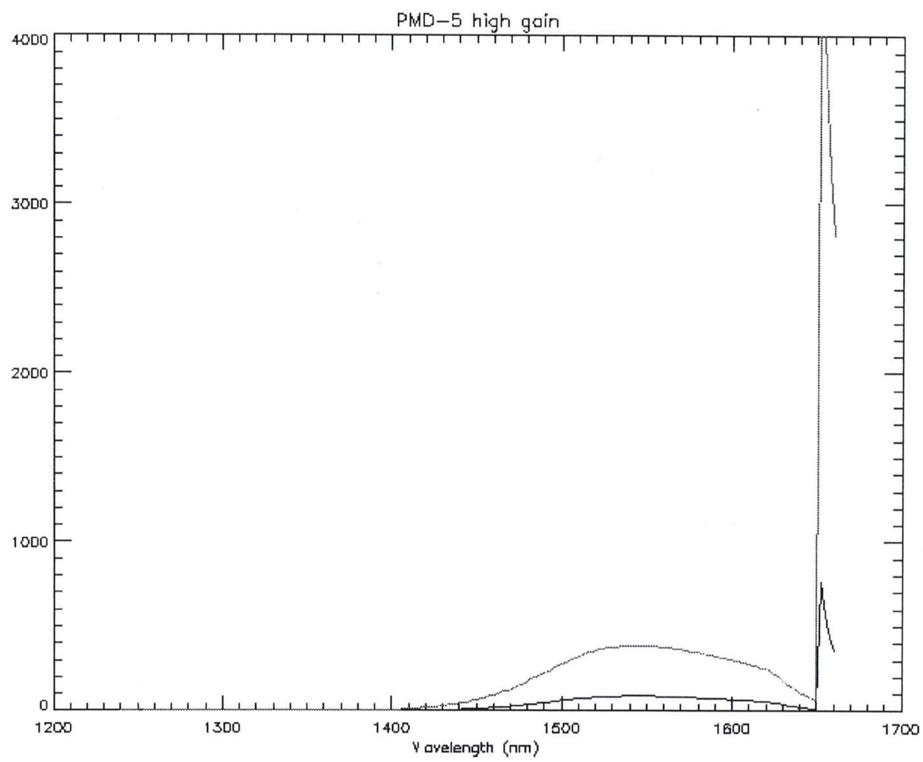
LOG SHEET SCHIAMACHY CALIBRATION

Date/Time	Description of action	Measurement directory
	subdir 2 ⇒ 1 * suprasil 311 + wls condensor	
	subdir. 5 ⇒ 1 * LSD(10°) + mono " "	
	subdir. 7 ⇒ 2 * LSD + " "	

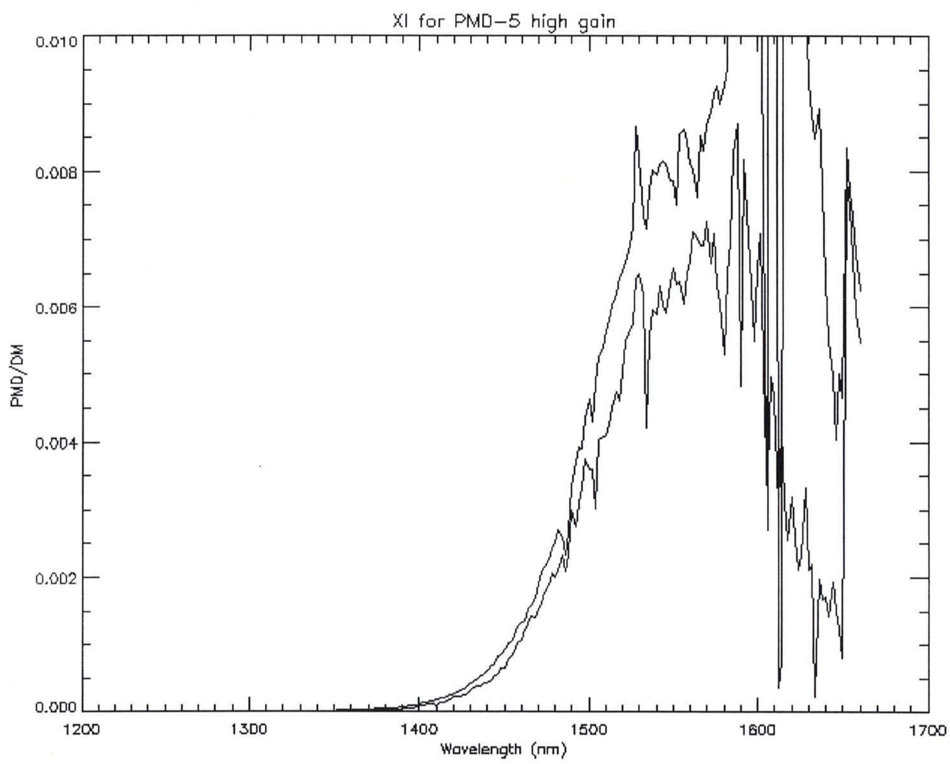
LOG SHEET SCHIAMACHY CALIBRATION

Date/Time	Description of action	Measurement directory
	S/N ratio	
	X81 - VisIR - III / 2 ⇒ 1 * UV suprasil	
	Pet = 0.25	
	4 records } rel-stal beschikbaar	
	typisch $< 10^{-3}$	
	max	

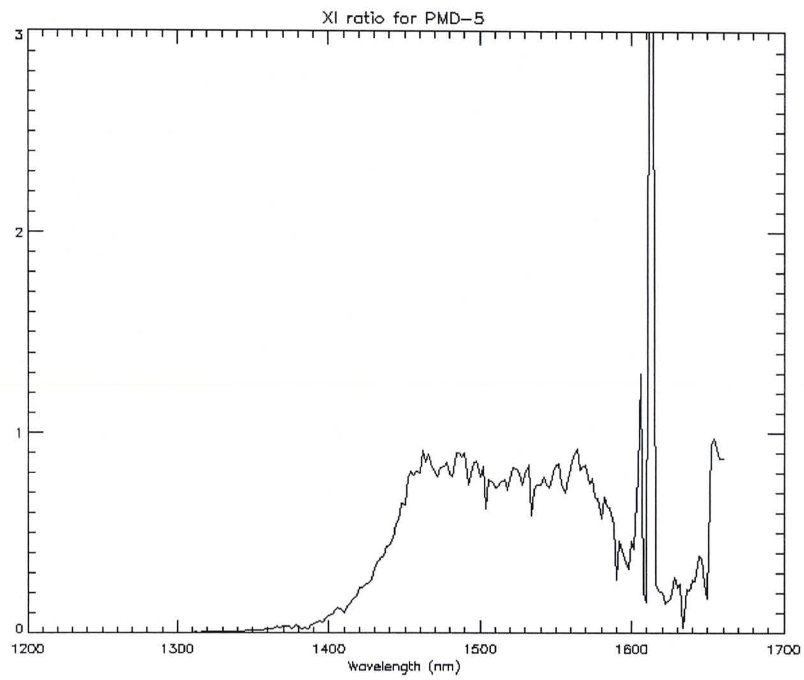
XSI_VisIR_III 7/5



XSI_VISIR_III 7/15

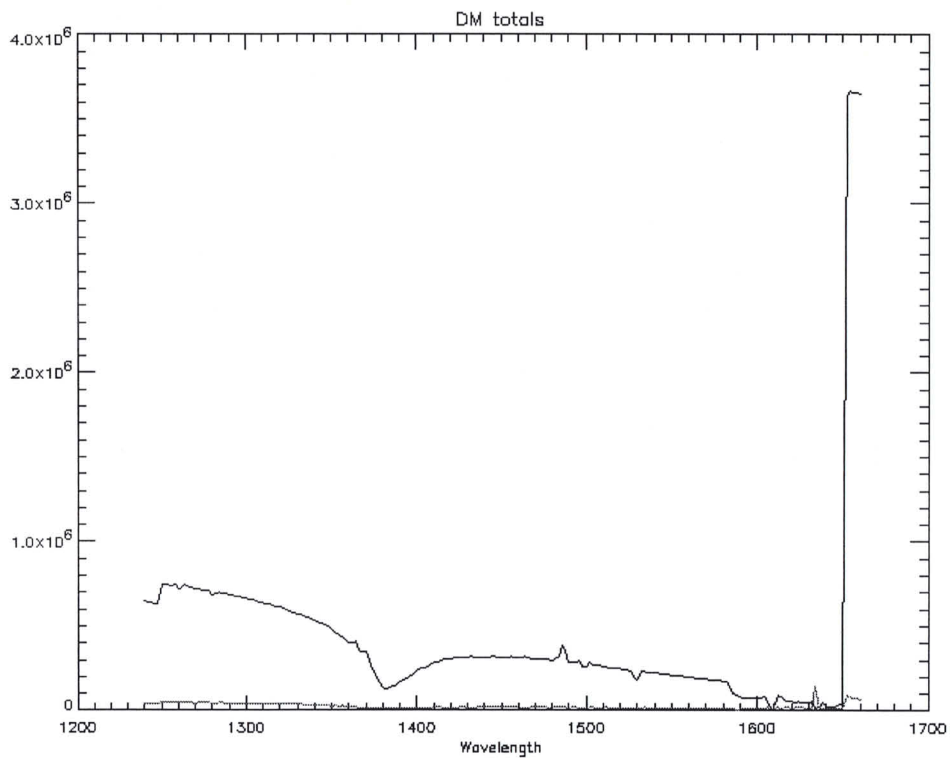


XSI_VISIR_III 7/5

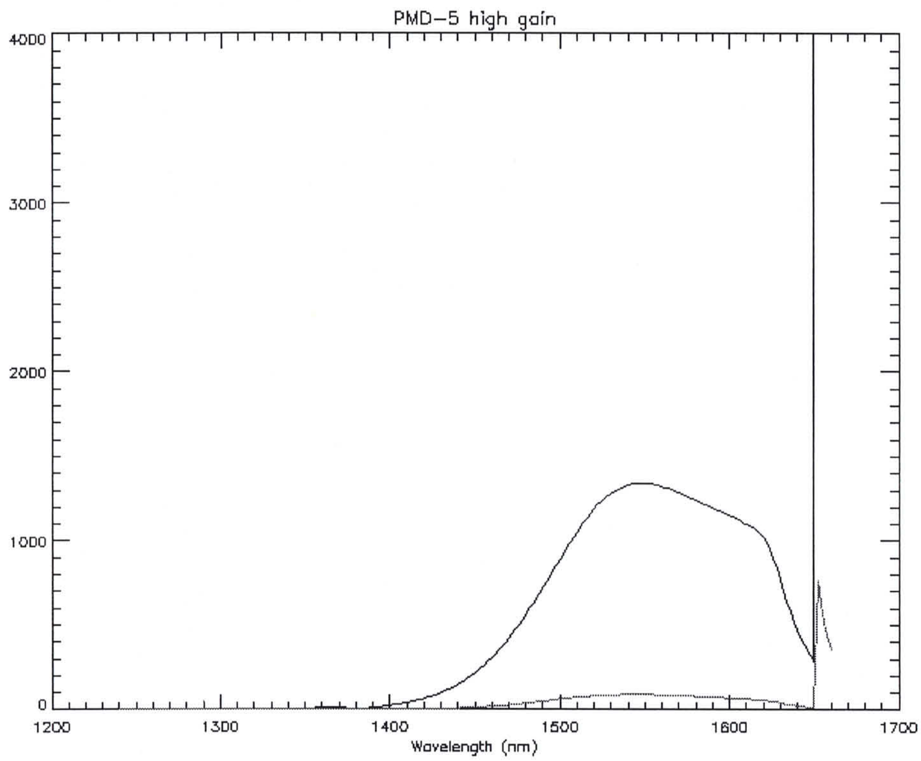


XSI_VISIR_III

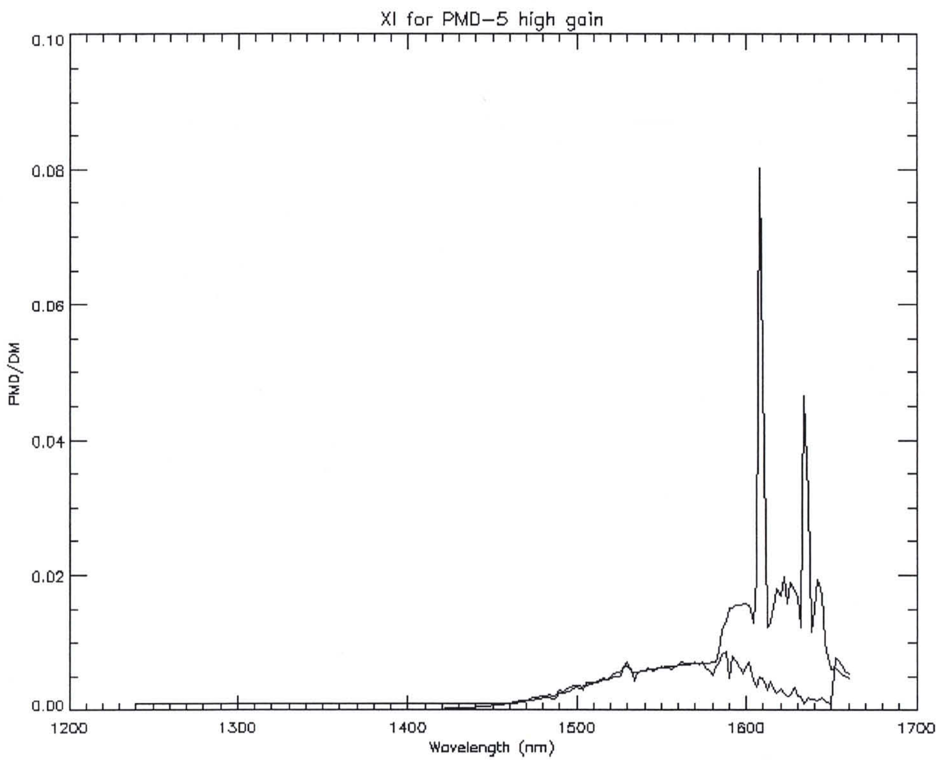
2/7



XSI_VISIR_III 2/7



XSI_VISIR_II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0.10
0.08
0.06
0.04
0.02
0.00
PMD/DM
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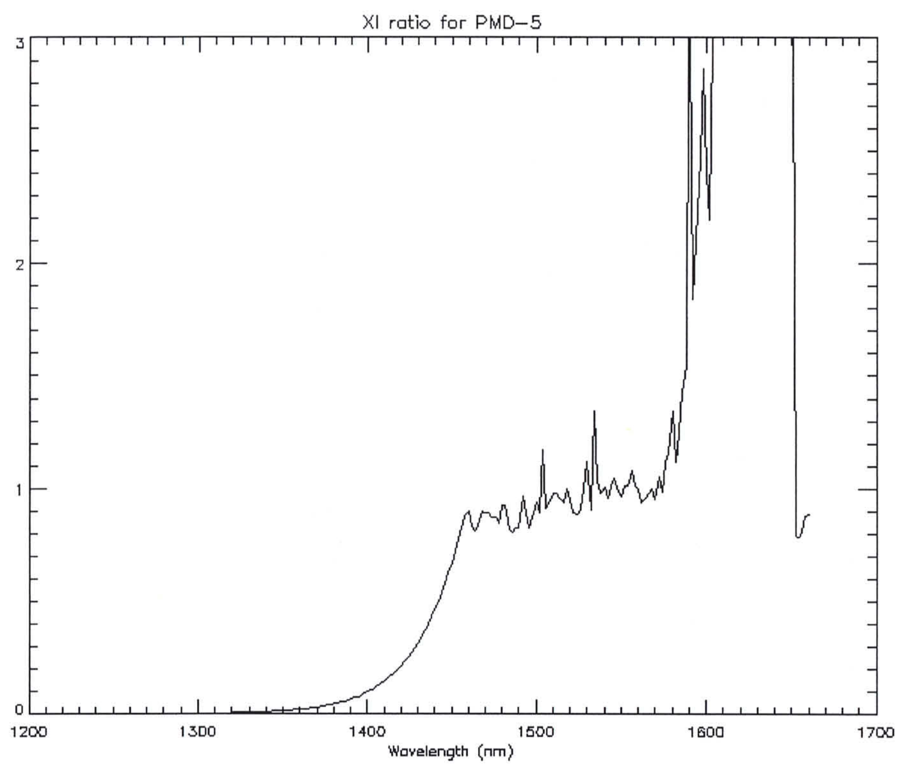
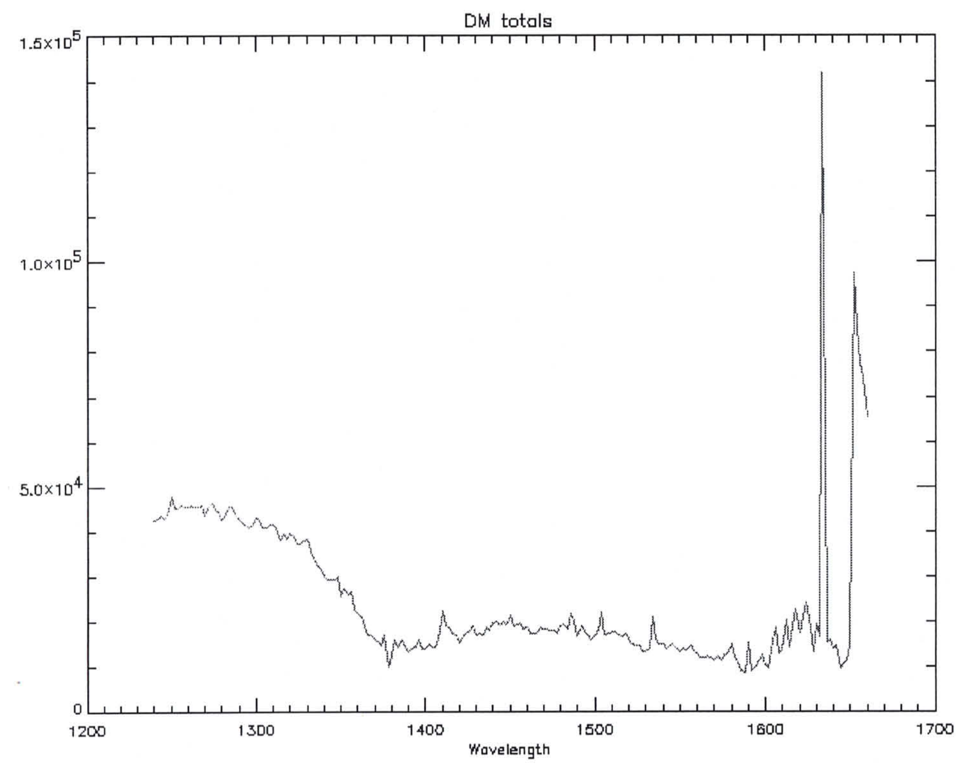
1300
1400
1500
1600
1700
Wavelength (nm)

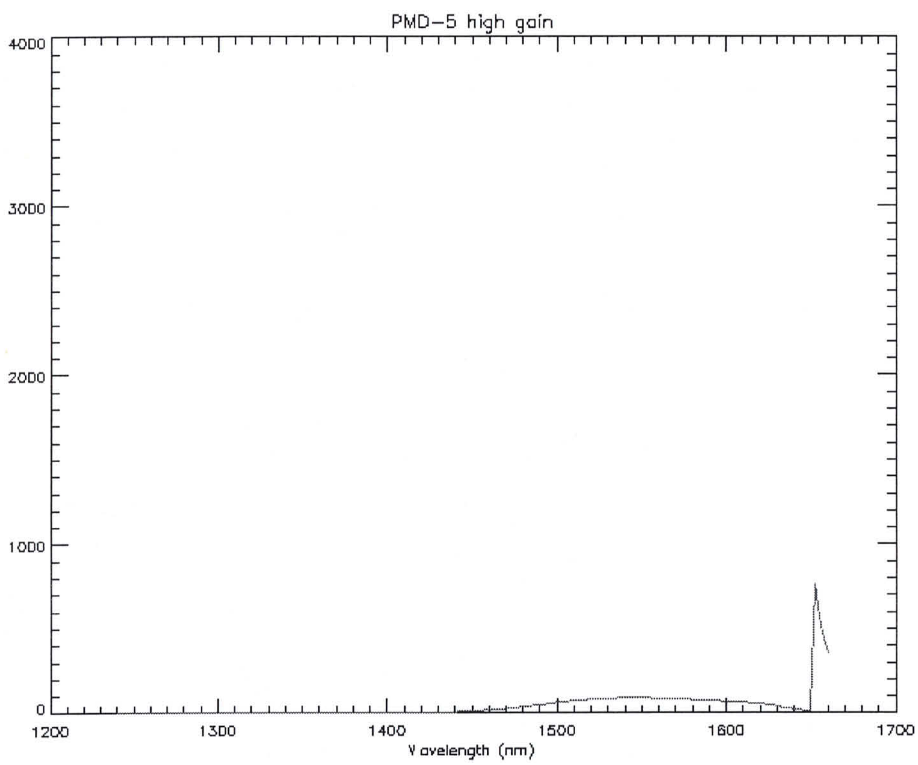
XSI_VISIR_III 2/7



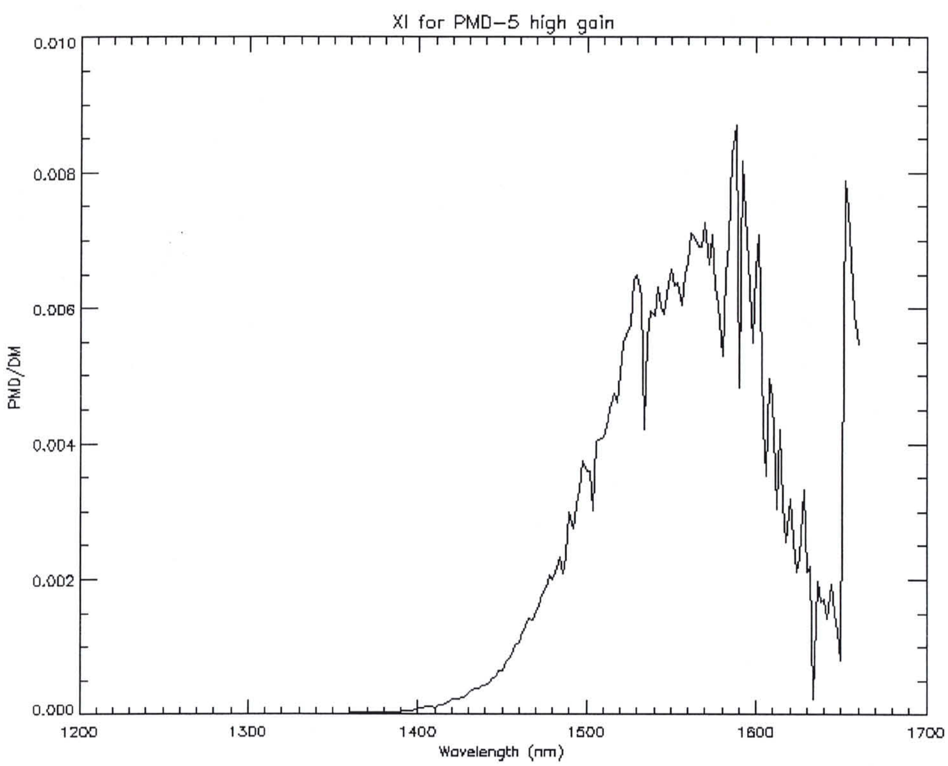
XSI_VIS IR_III 717



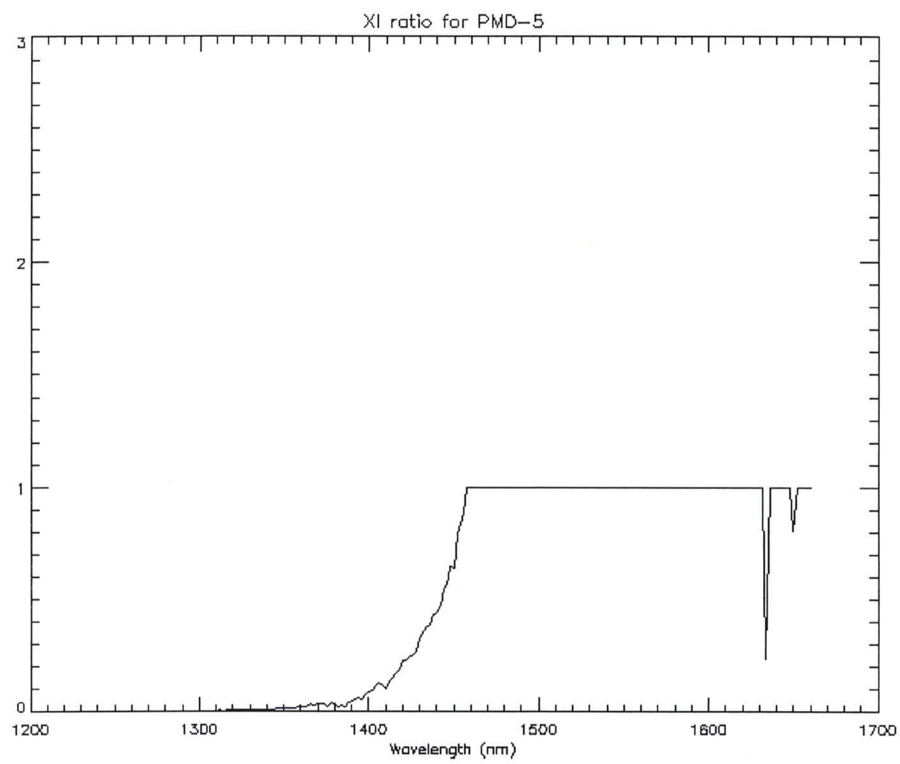
XSI_VISIR_III 7/7



XSI_VISIR_III 7/7



XSI_VISIR_III 7/7



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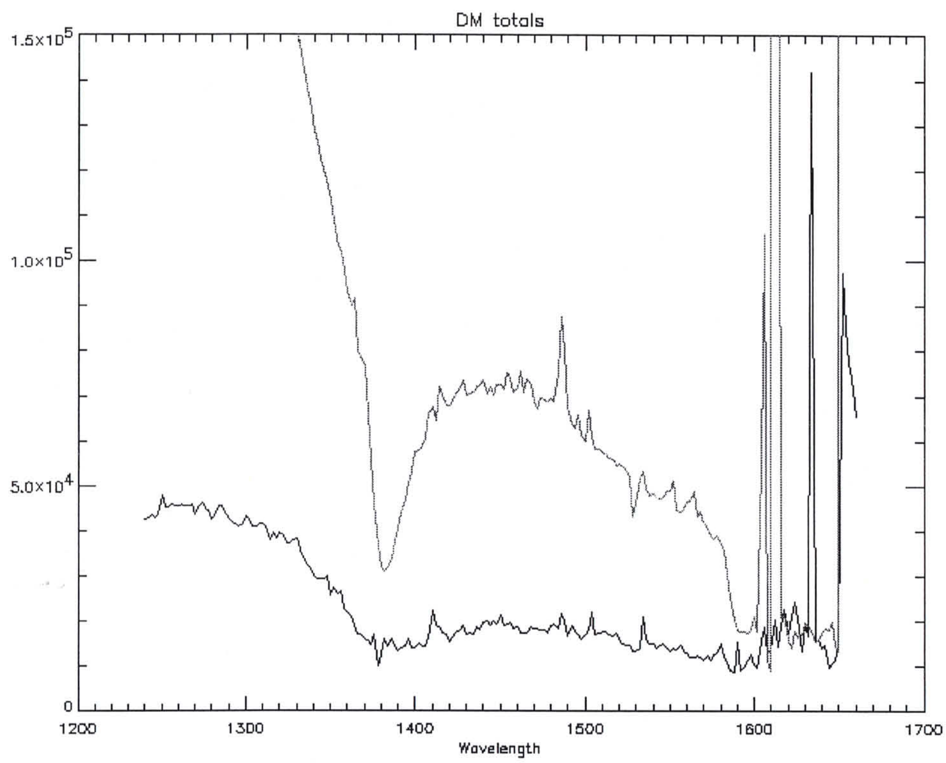
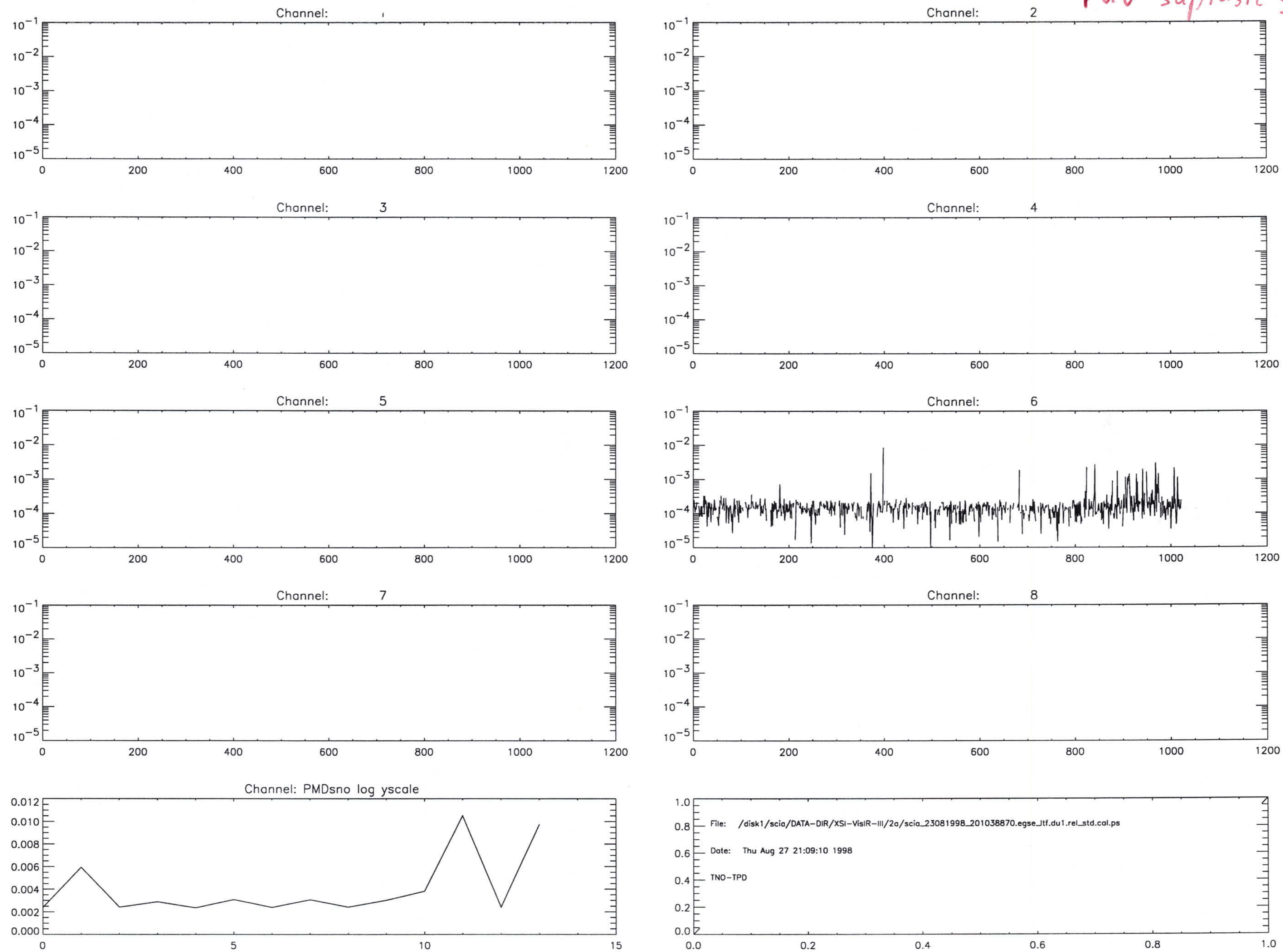
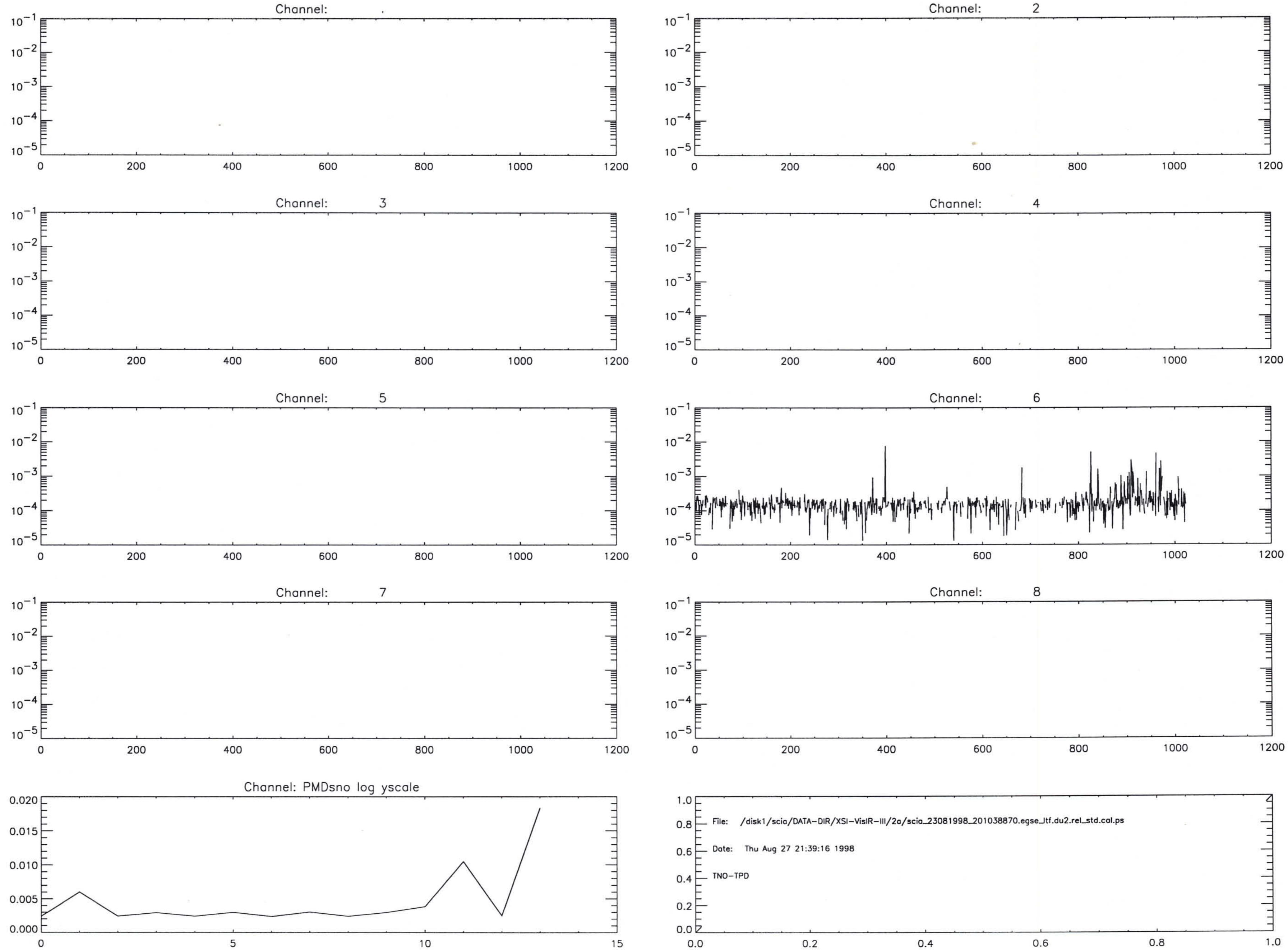


1UV suprasil 311

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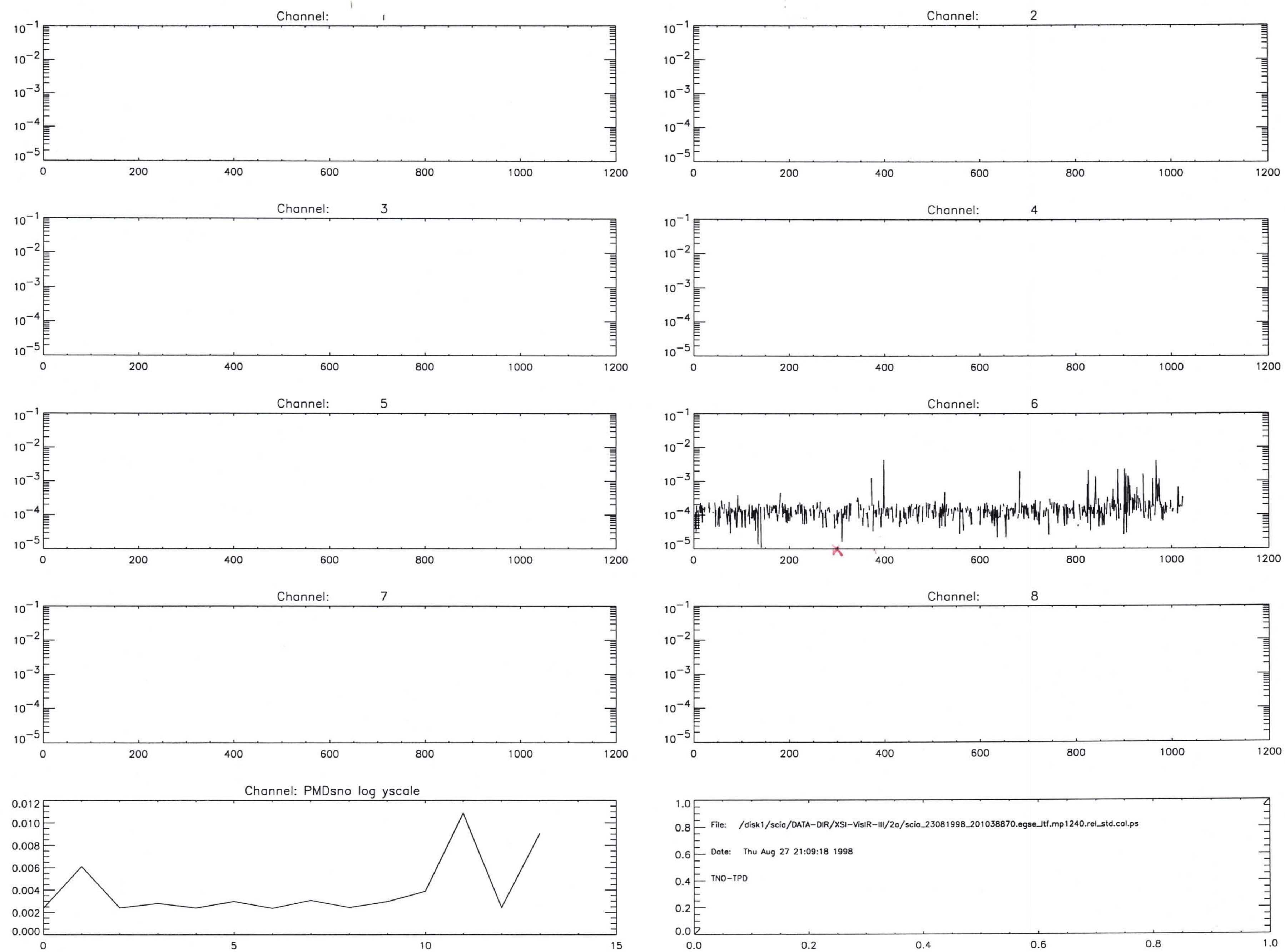
TNO-TPD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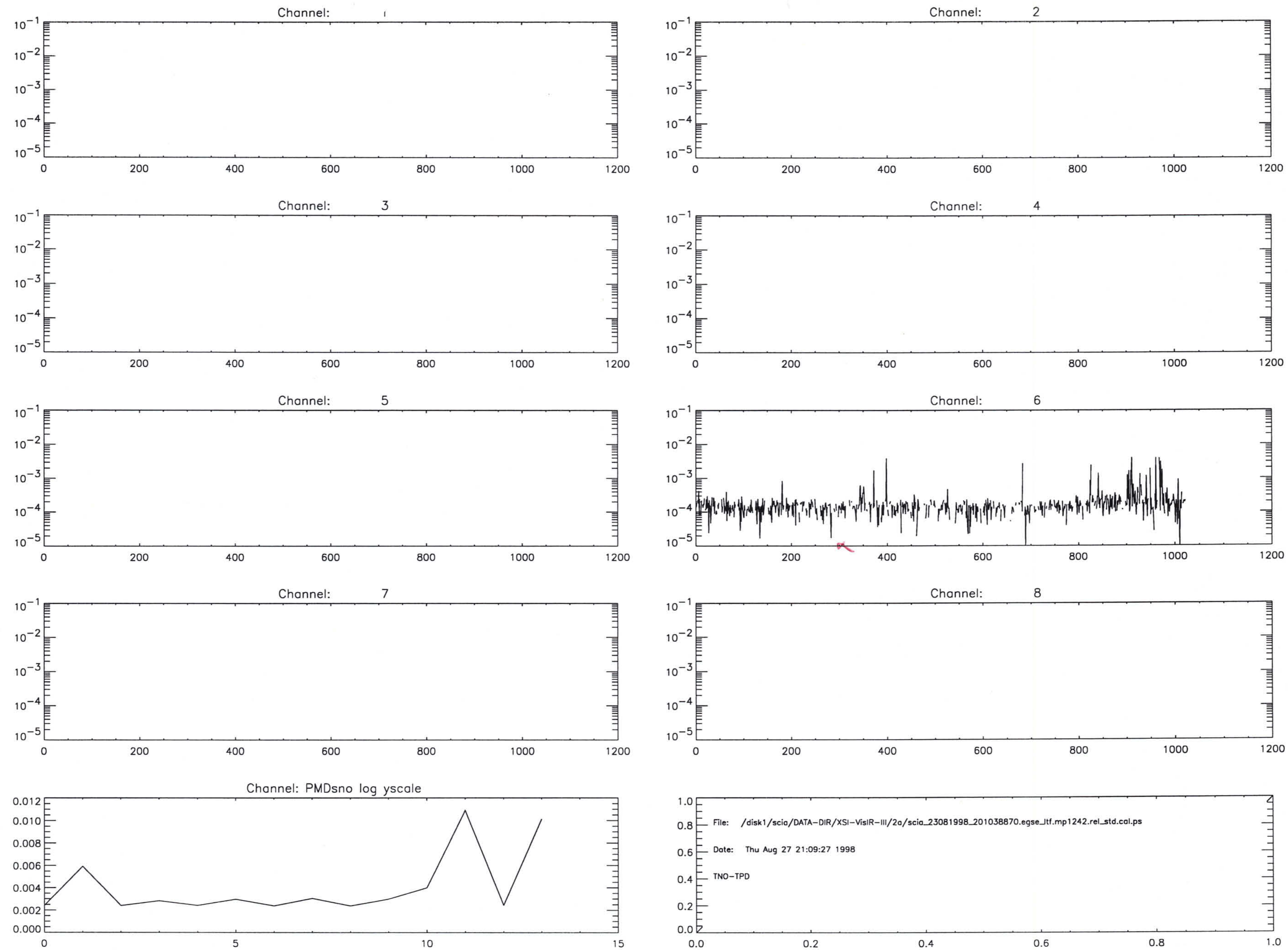
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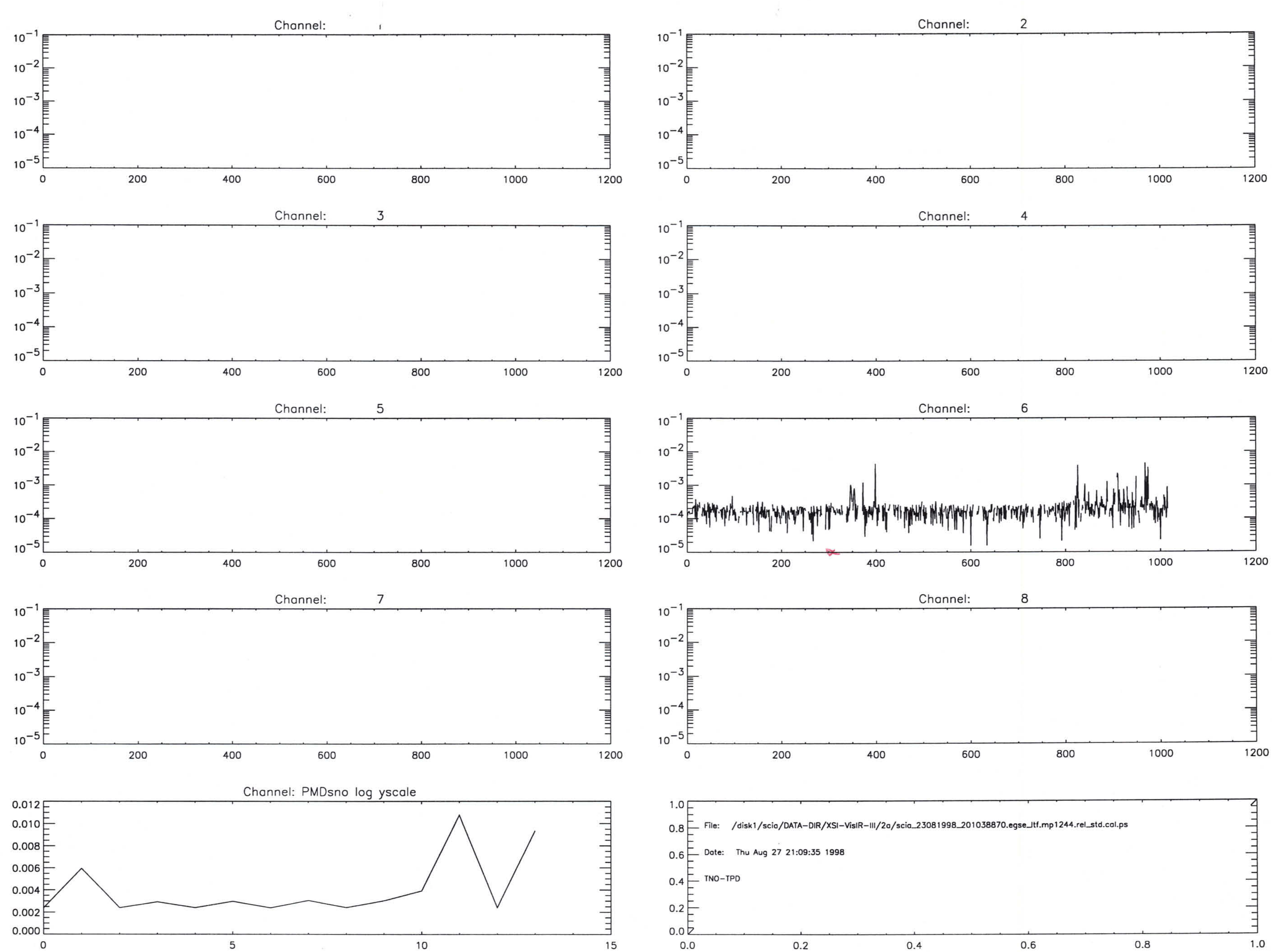
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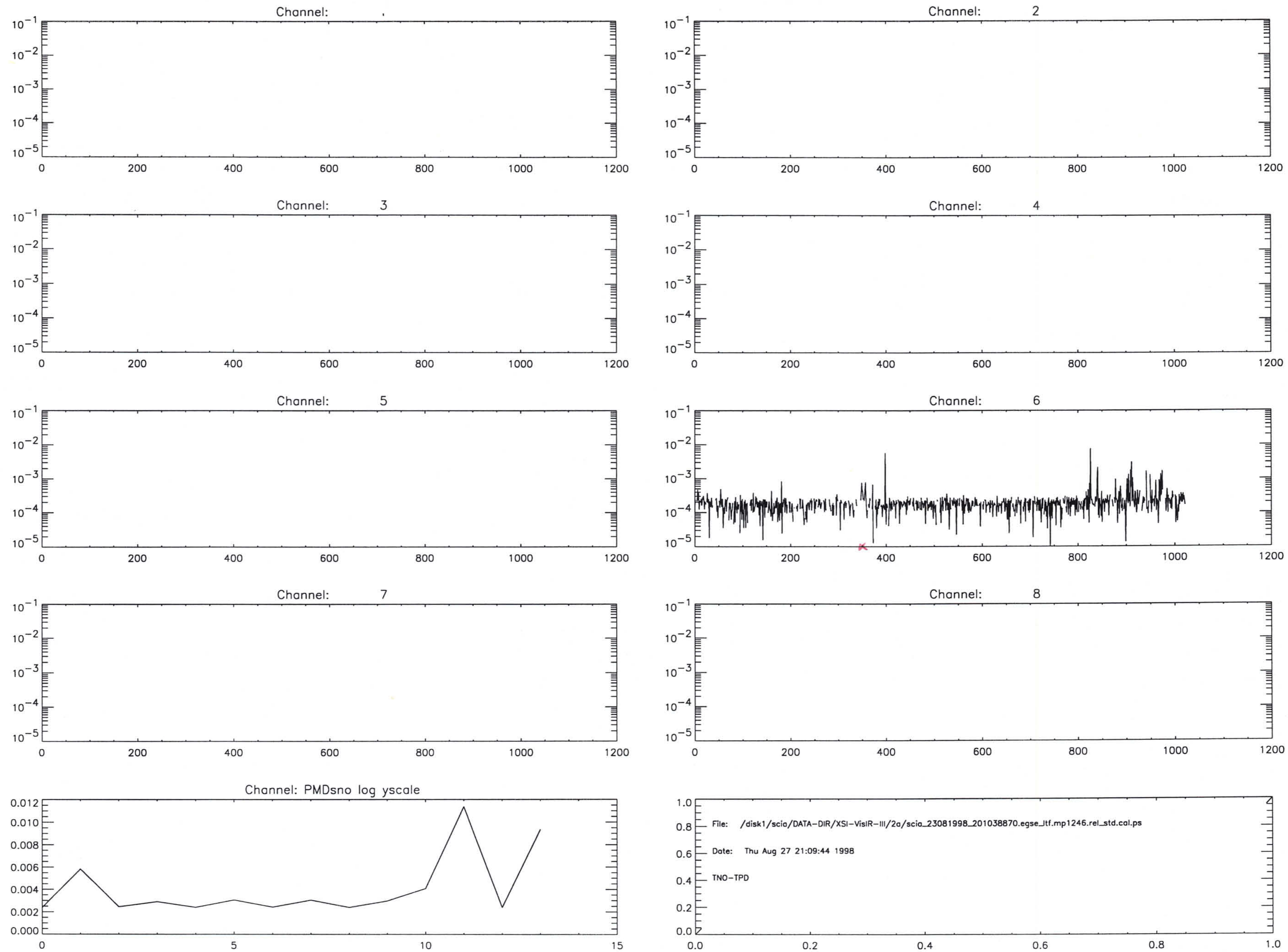

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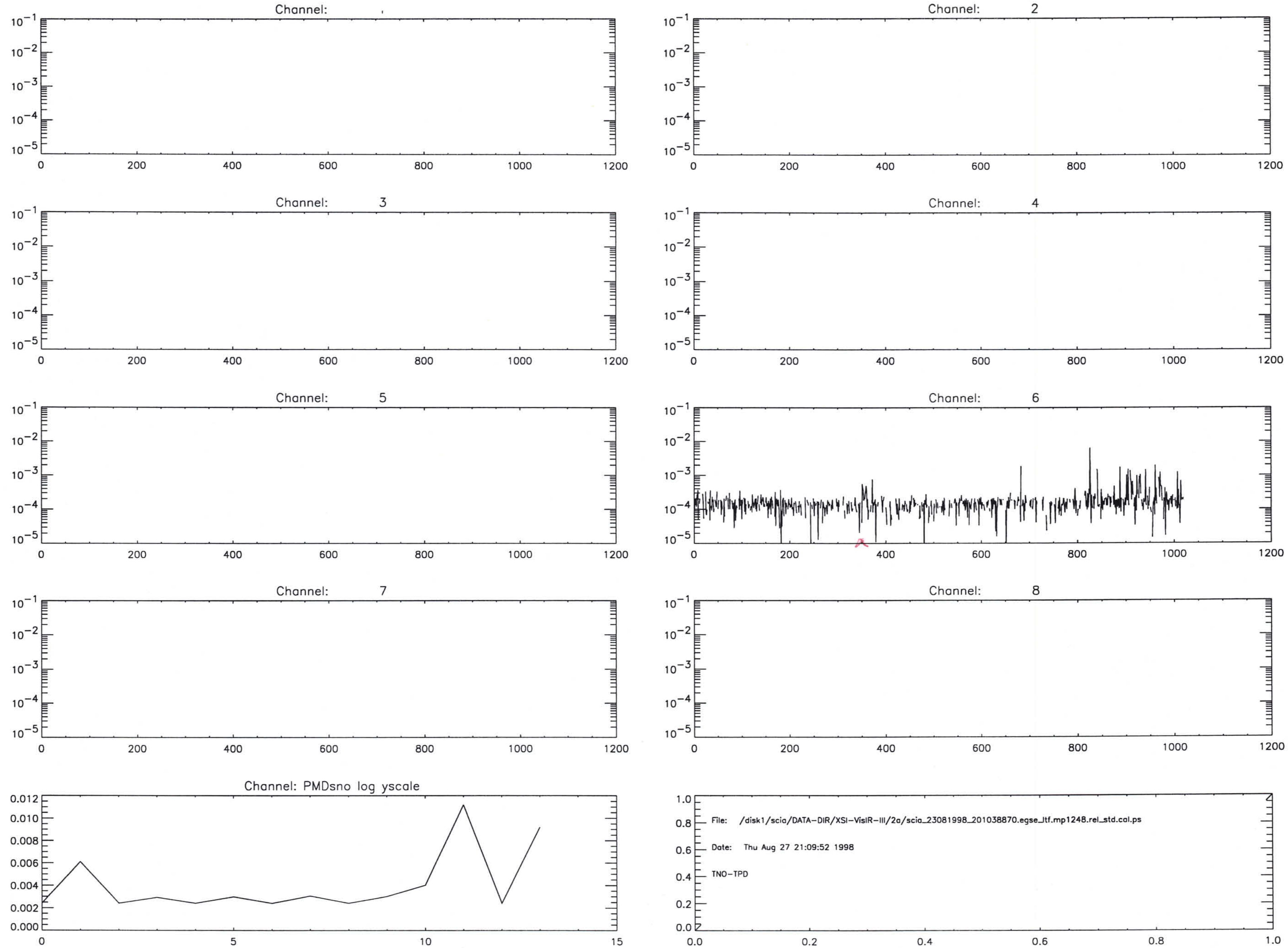
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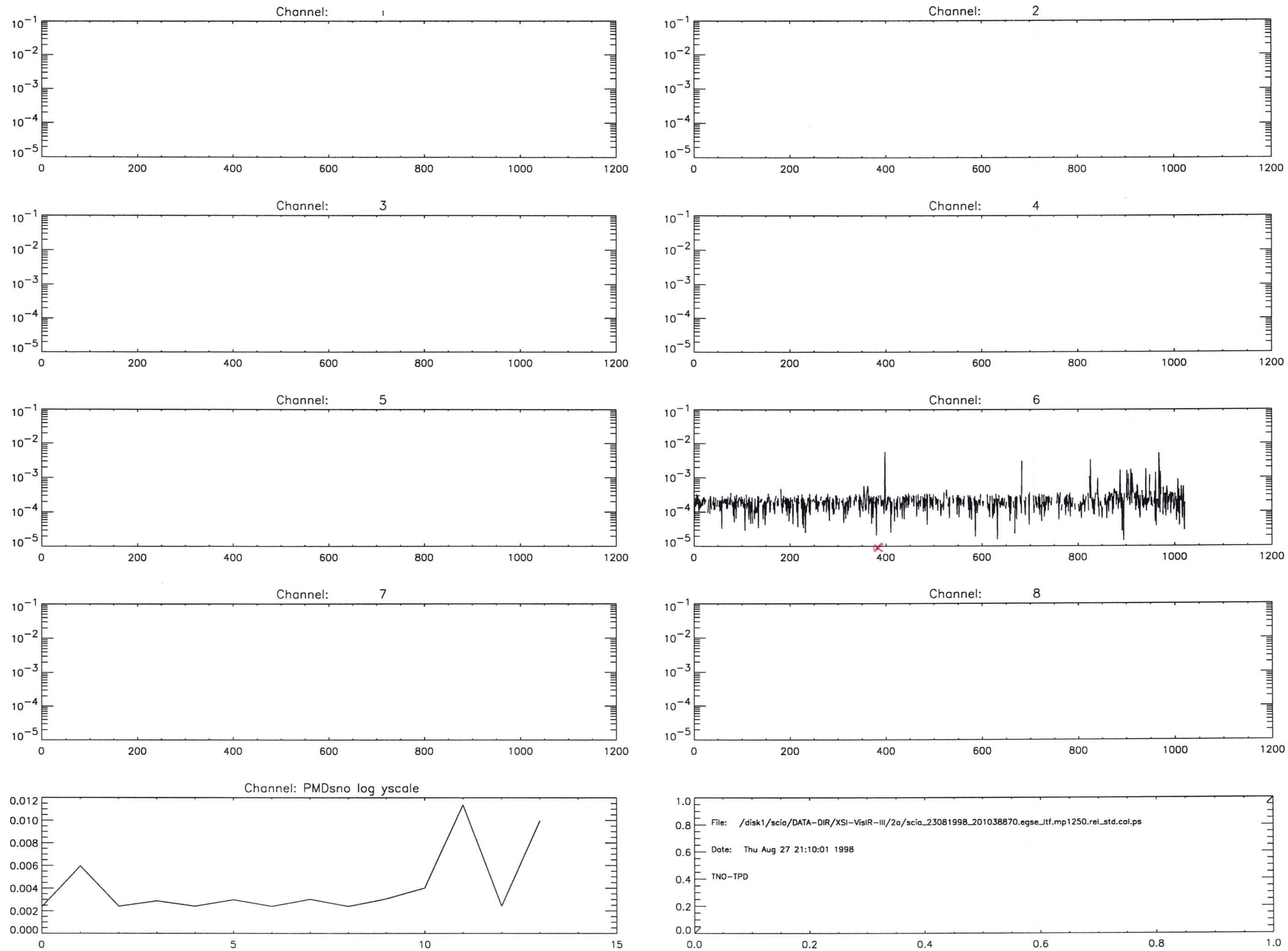
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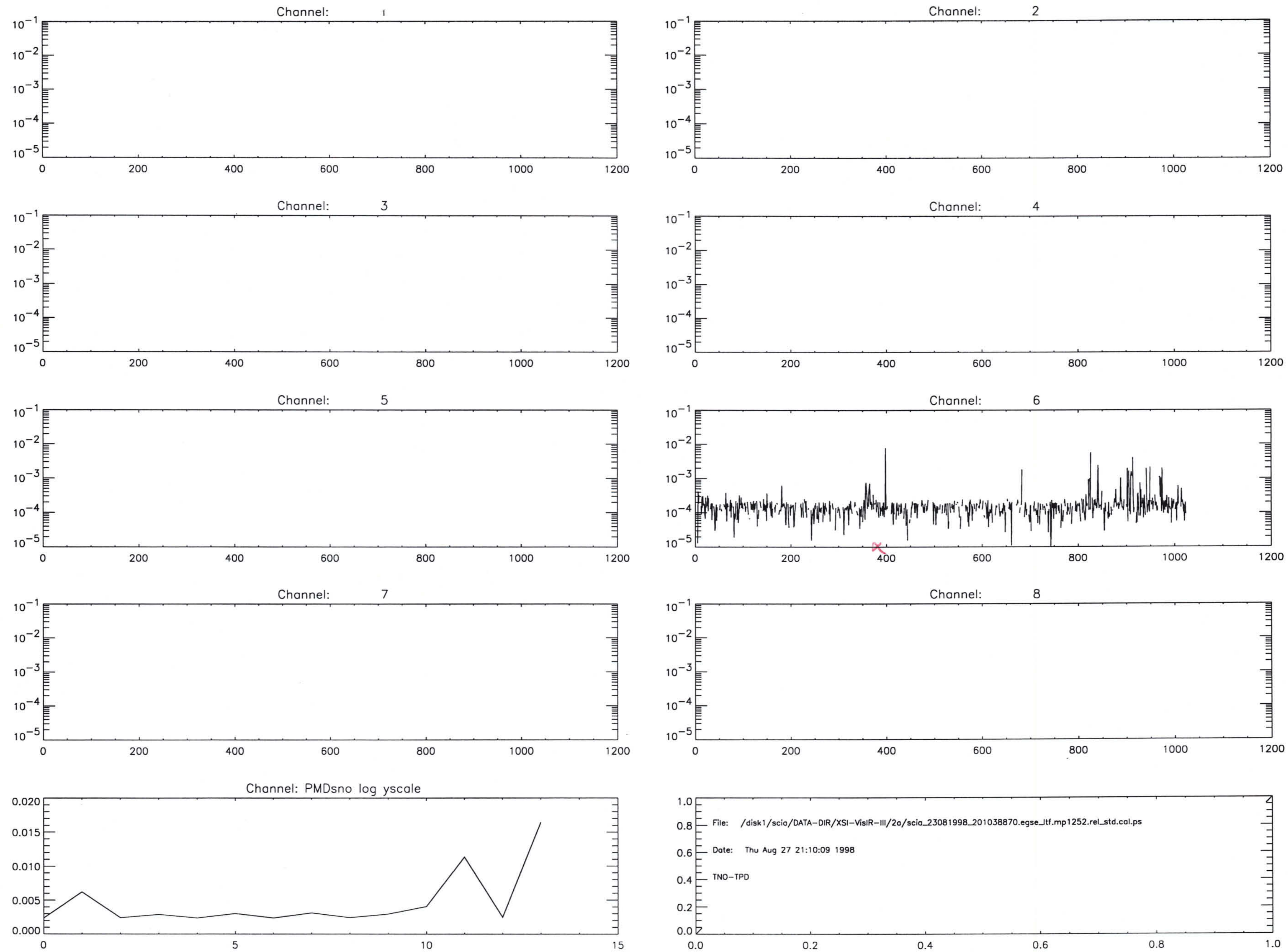

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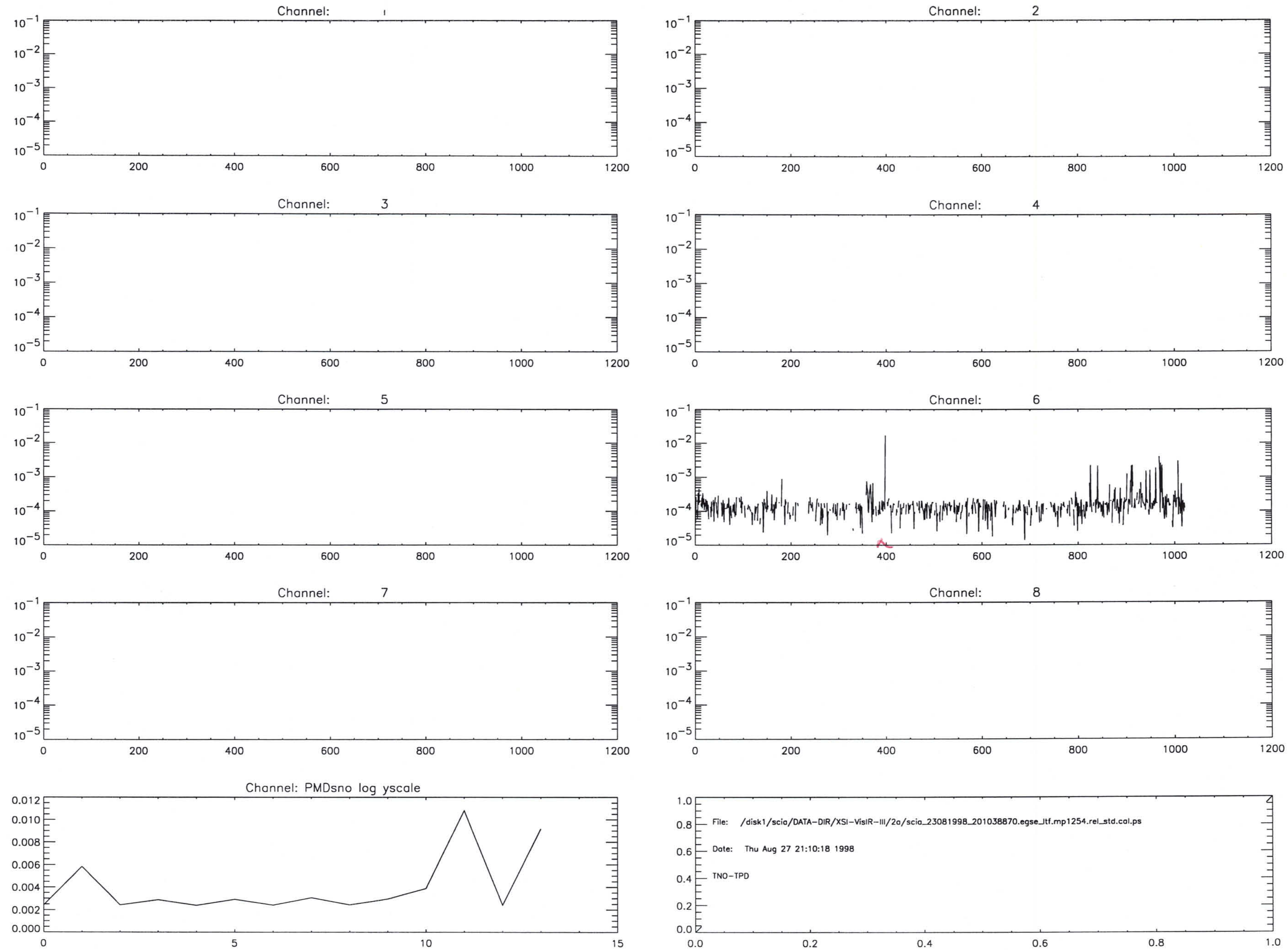
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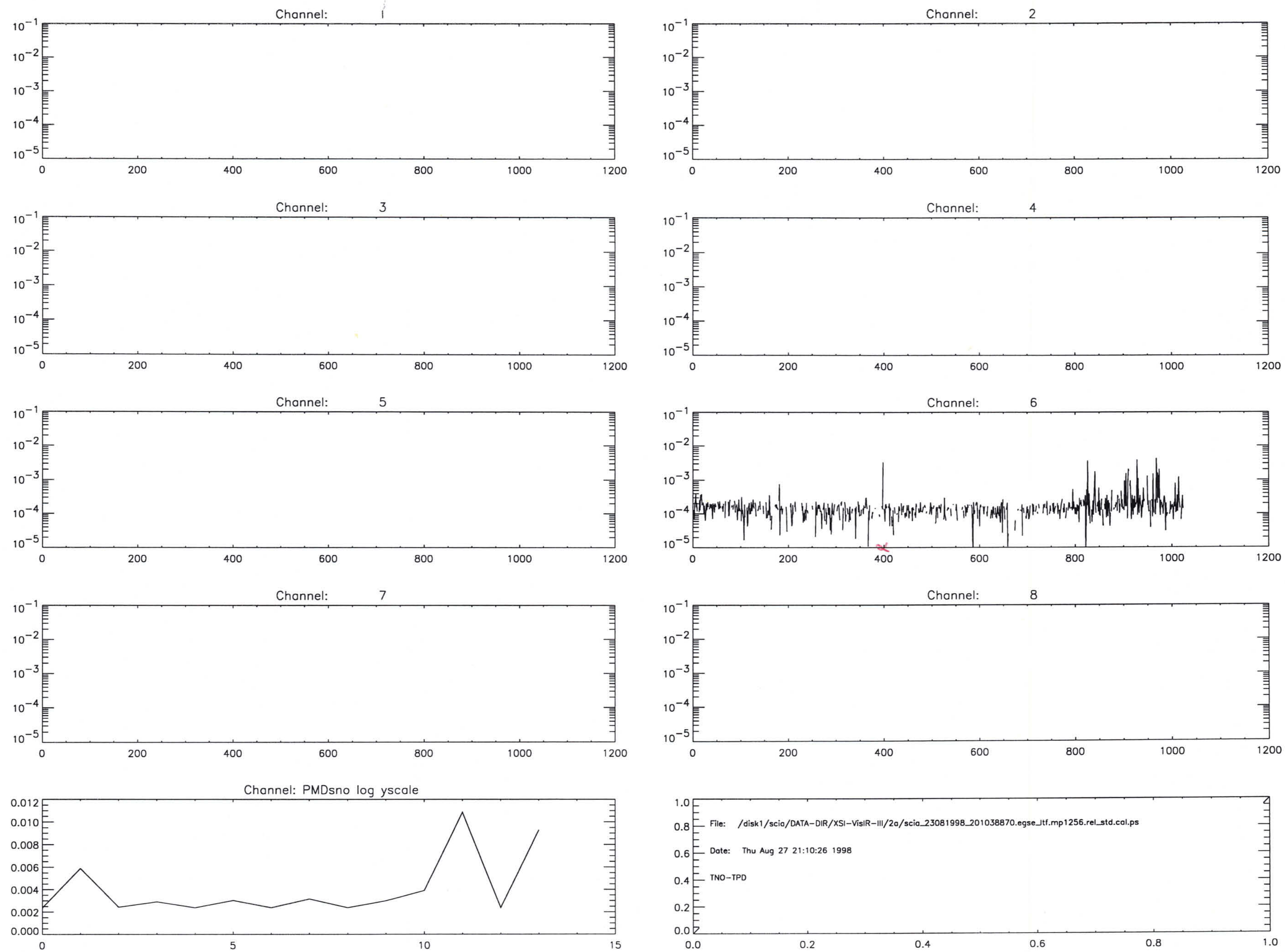

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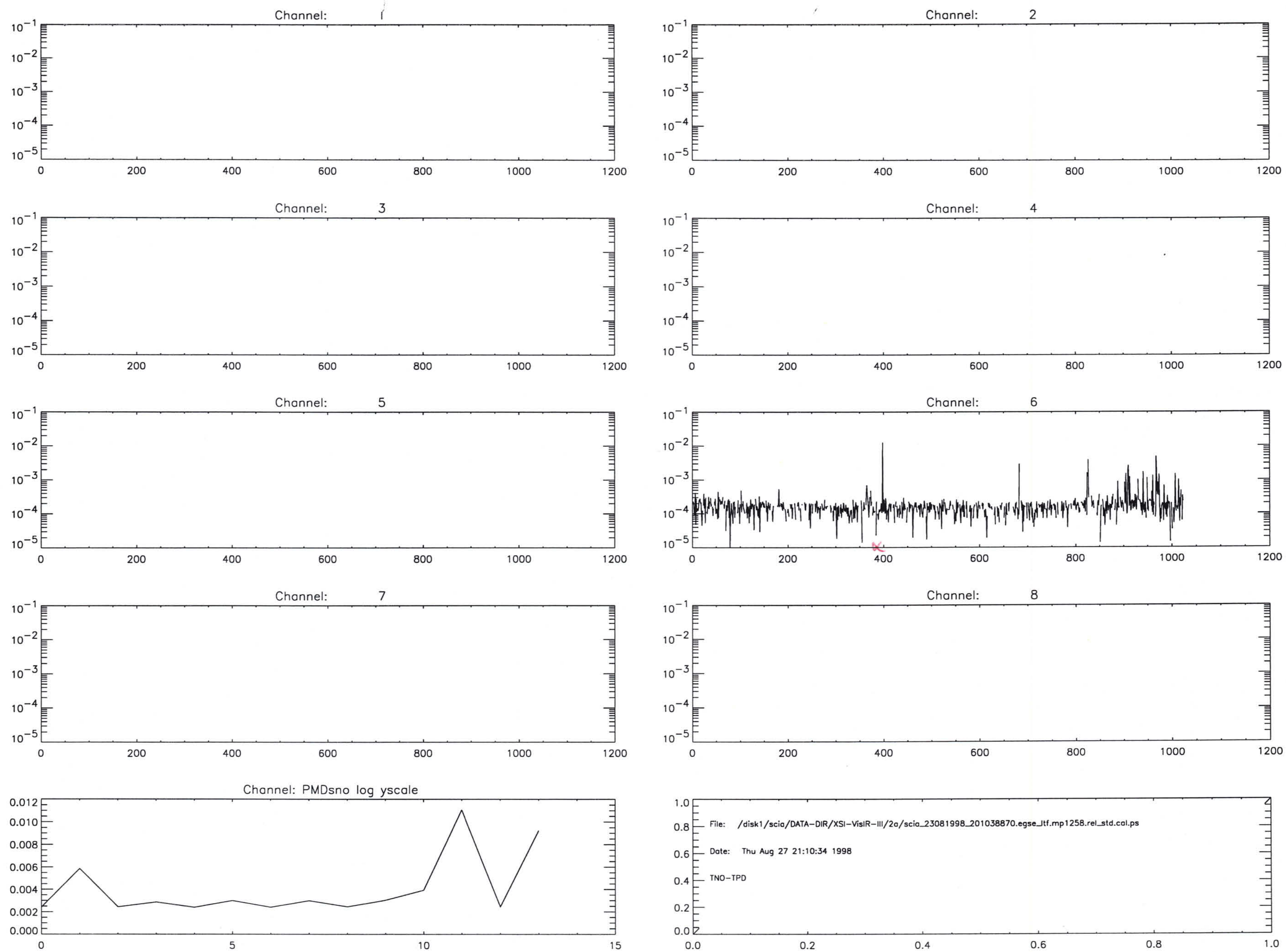
Date: Thu Aug 27 21:10:26 1998
TNO-TPD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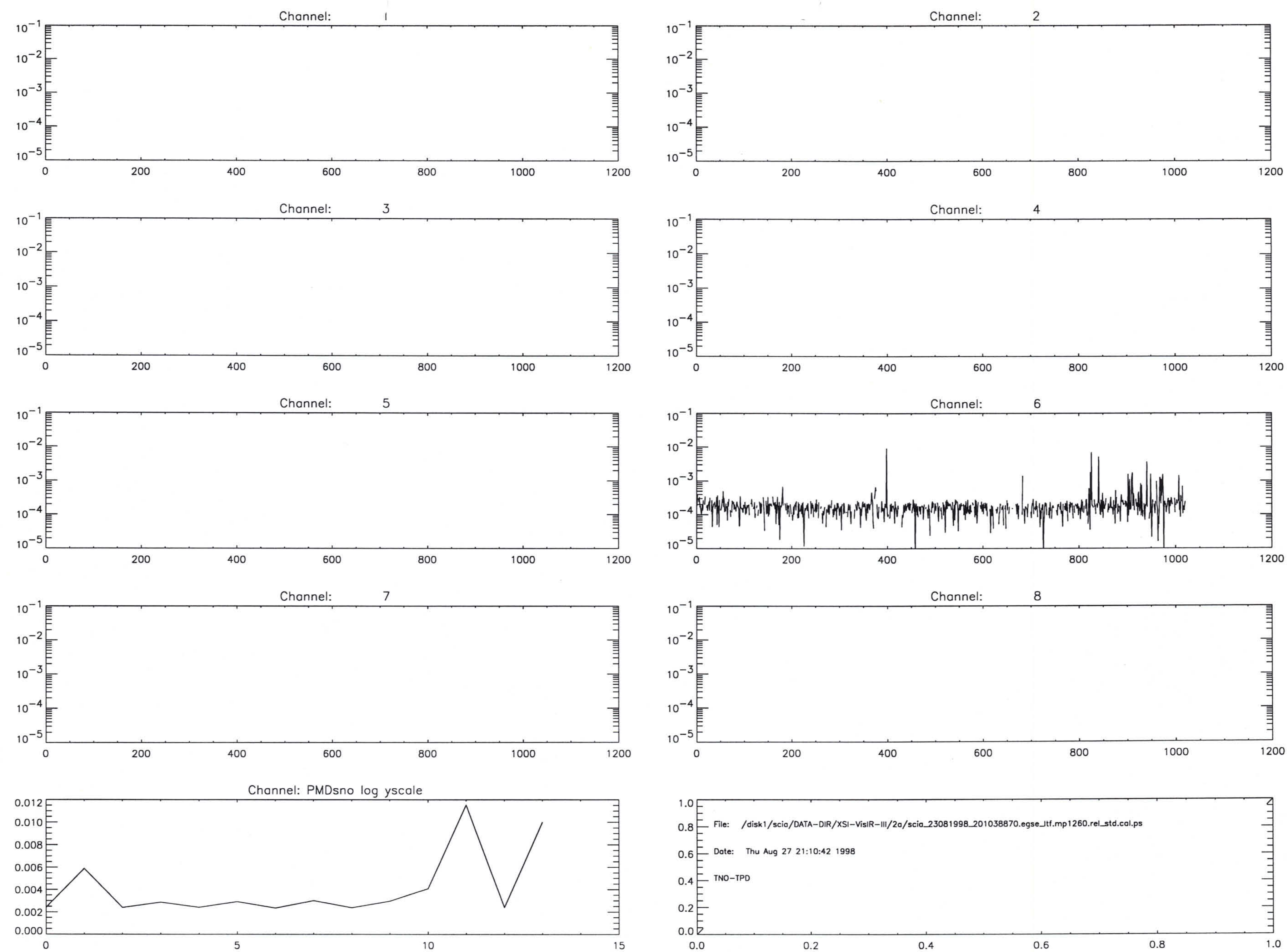
Date: Thu Aug 27 21:10:34 1998
TNO-TPD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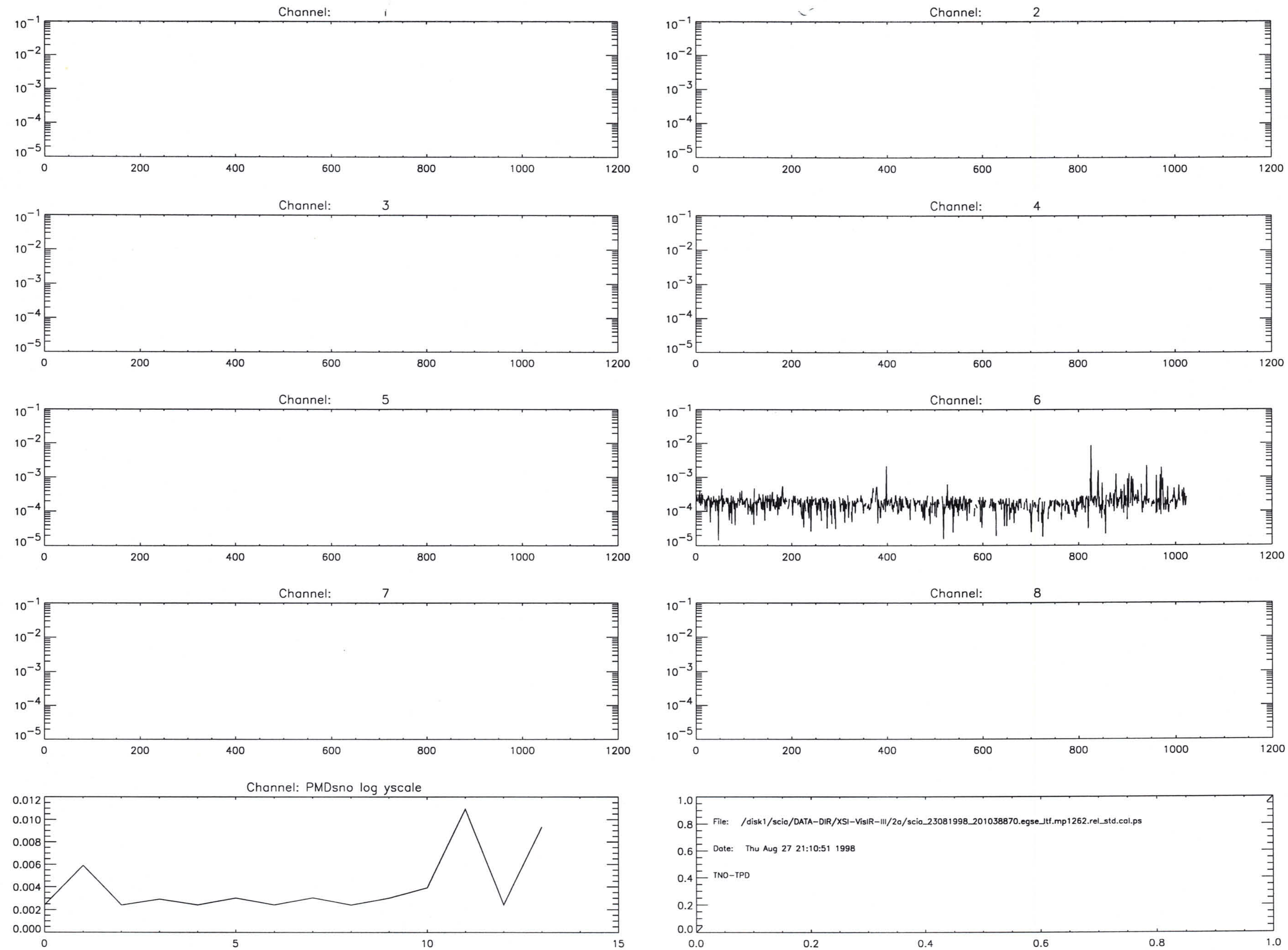
Date: Thu Aug 27 21:10:42 1998
TNO-TPD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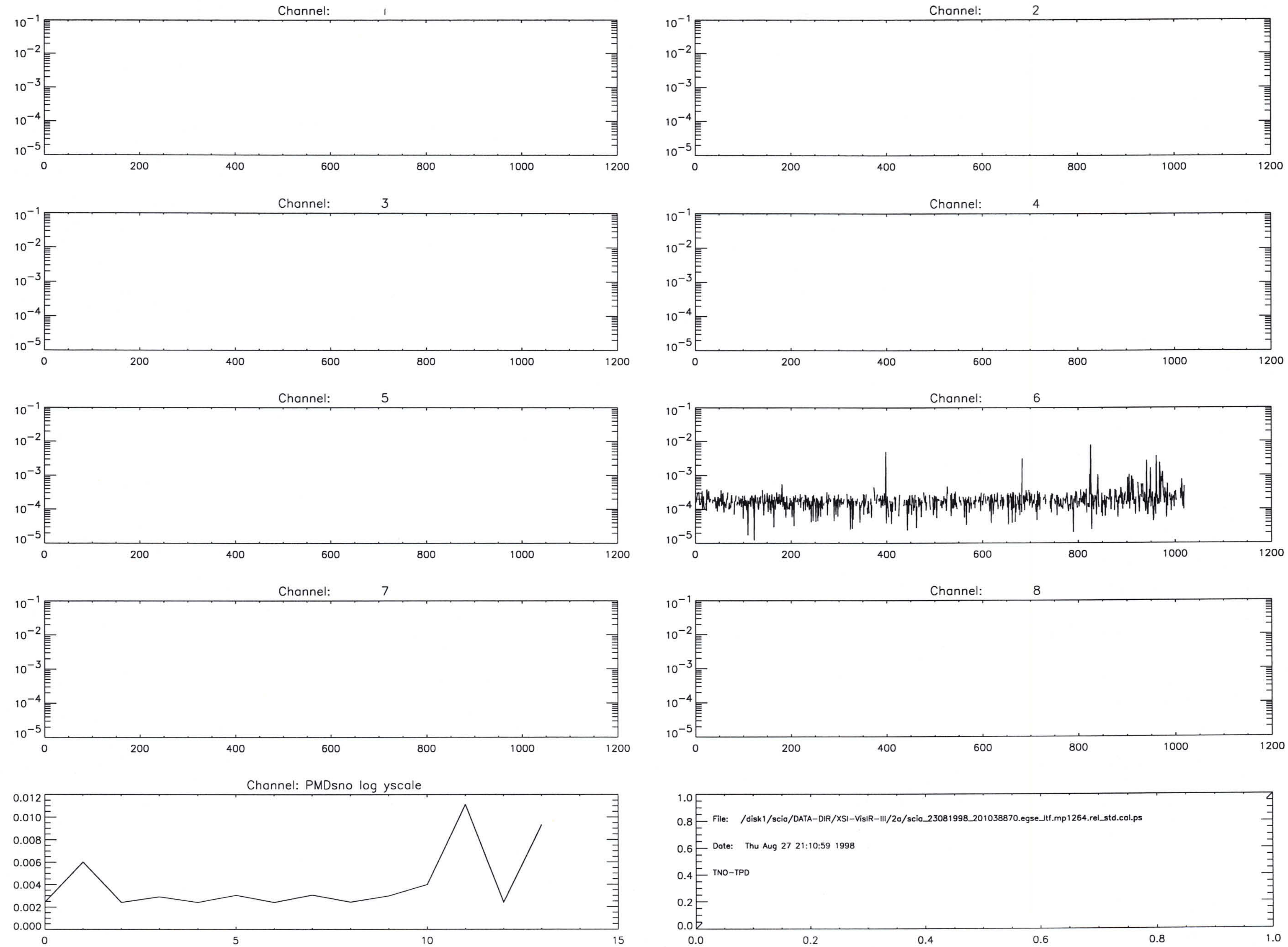
Date: Thu Aug 27 21:10:51 1998
TNO-TPD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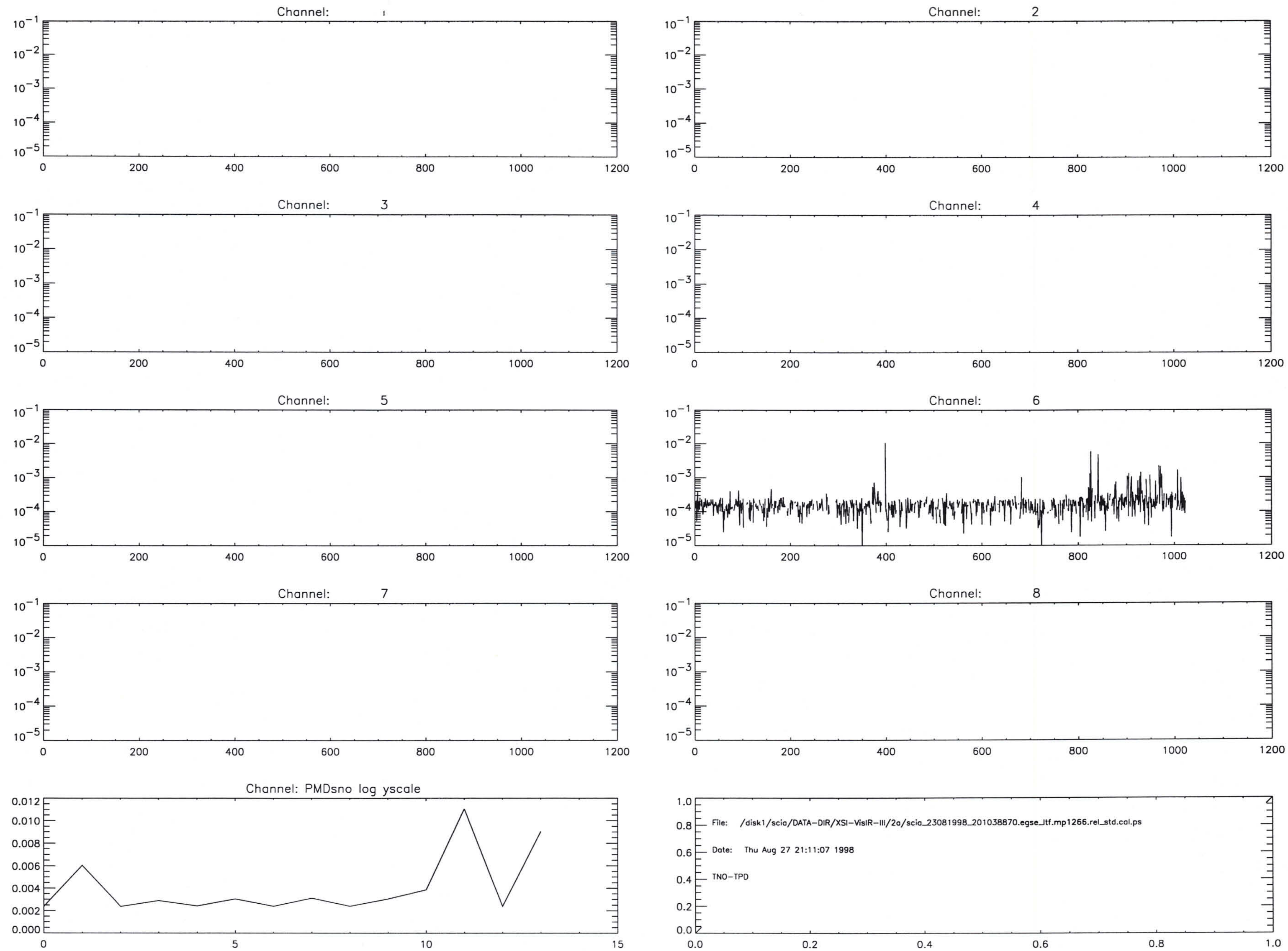
Date: Thu Aug 27 21:10:59 1998
TNO-TPD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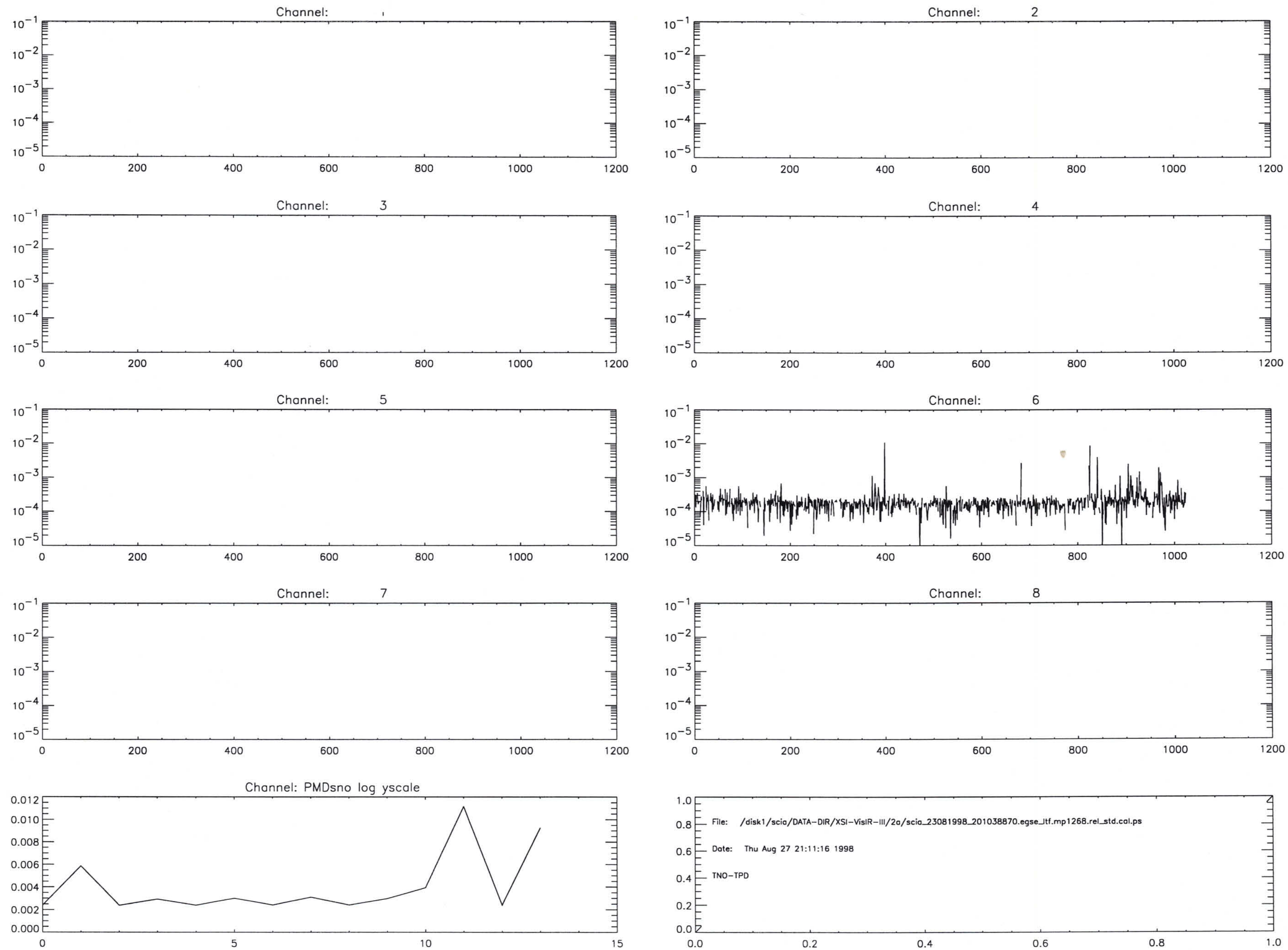
Date: Thu Aug 27 21:11:07 1998
TNO-TPD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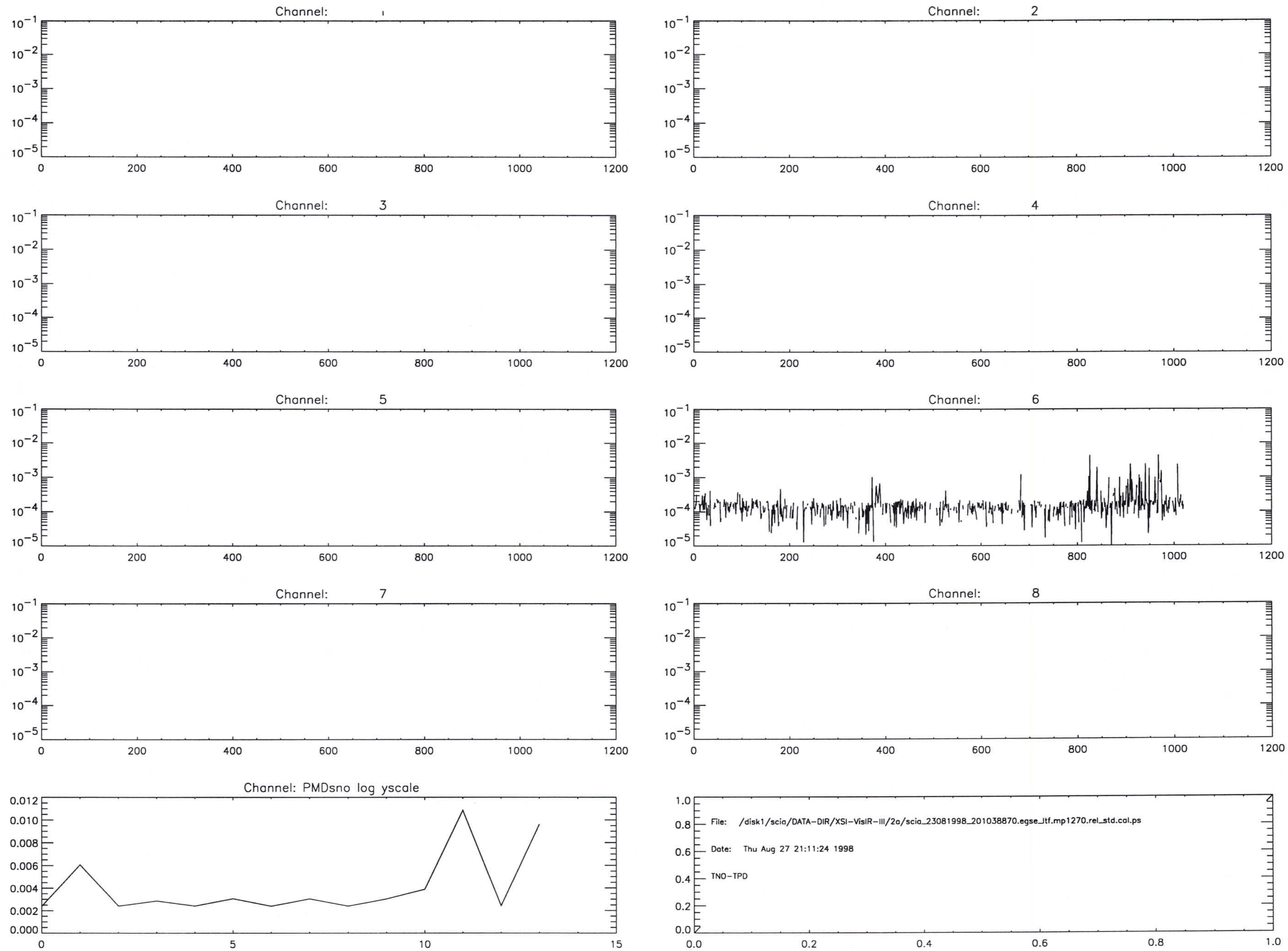
Date: Thu Aug 27 21:11:16 1998
TNO-TPD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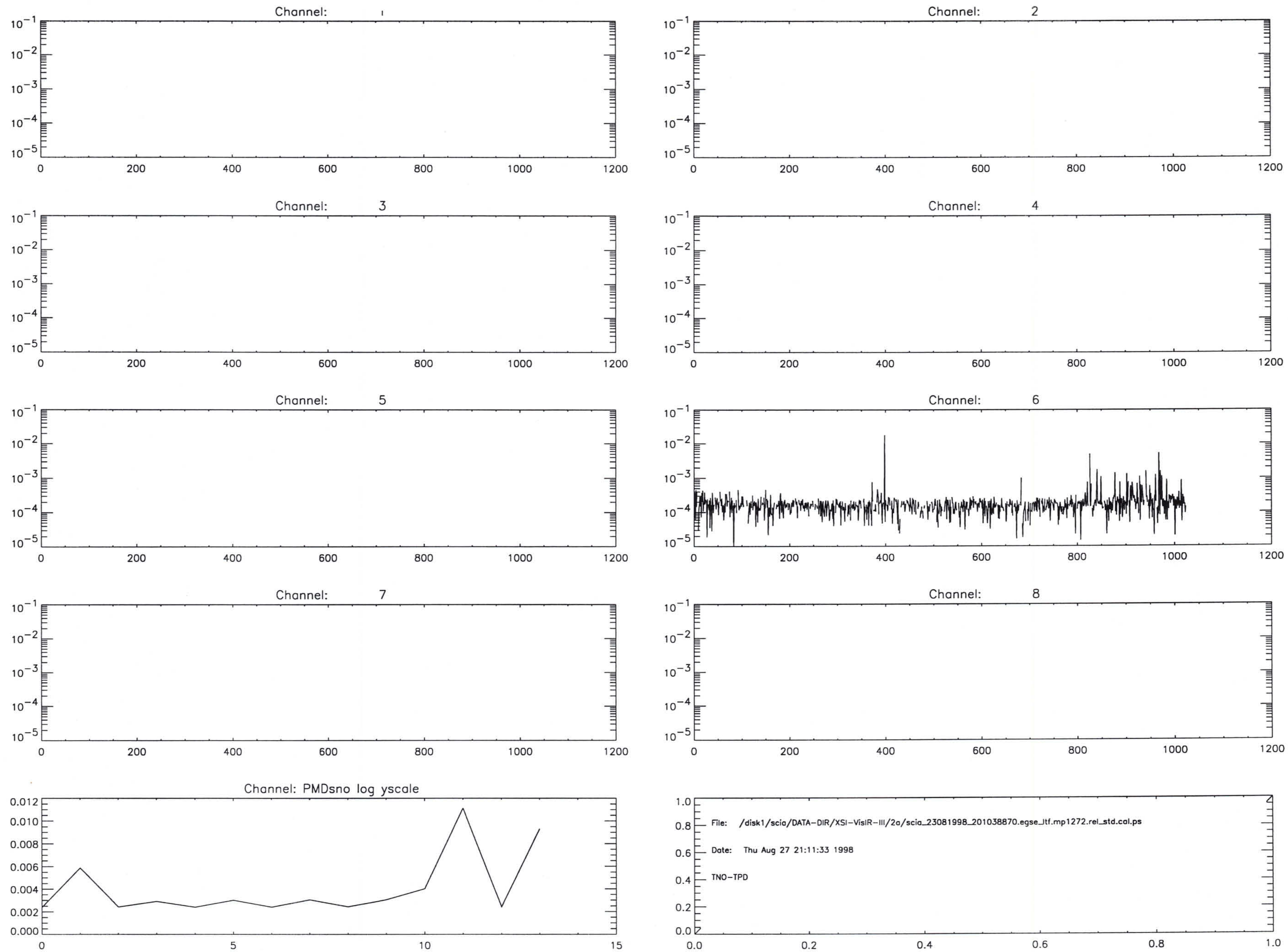
Date: Thu Aug 27 21:11:24 1998
TNO-TPD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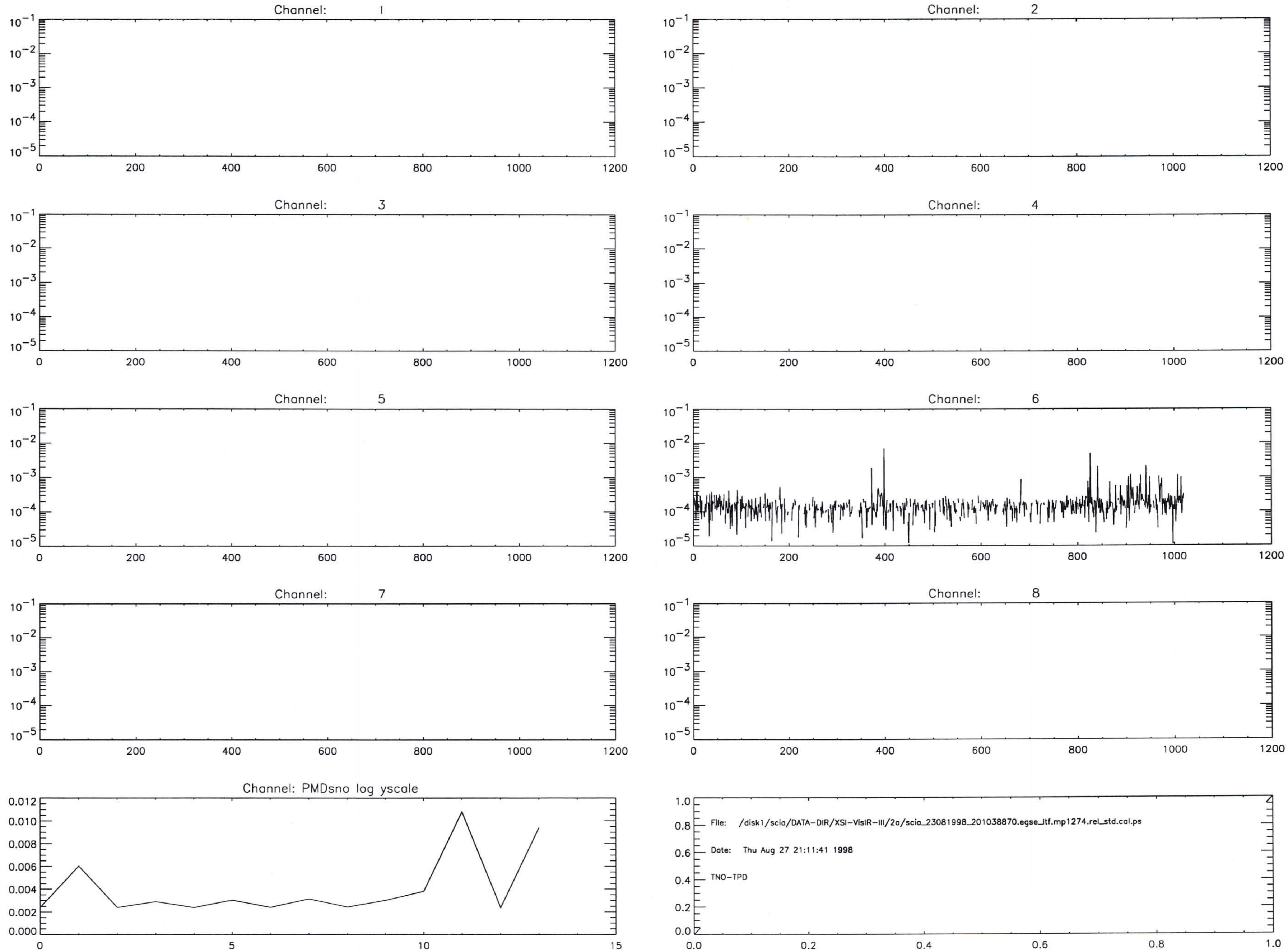
Date: Thu Aug 27 21:11:33 1998
TNO-TPD



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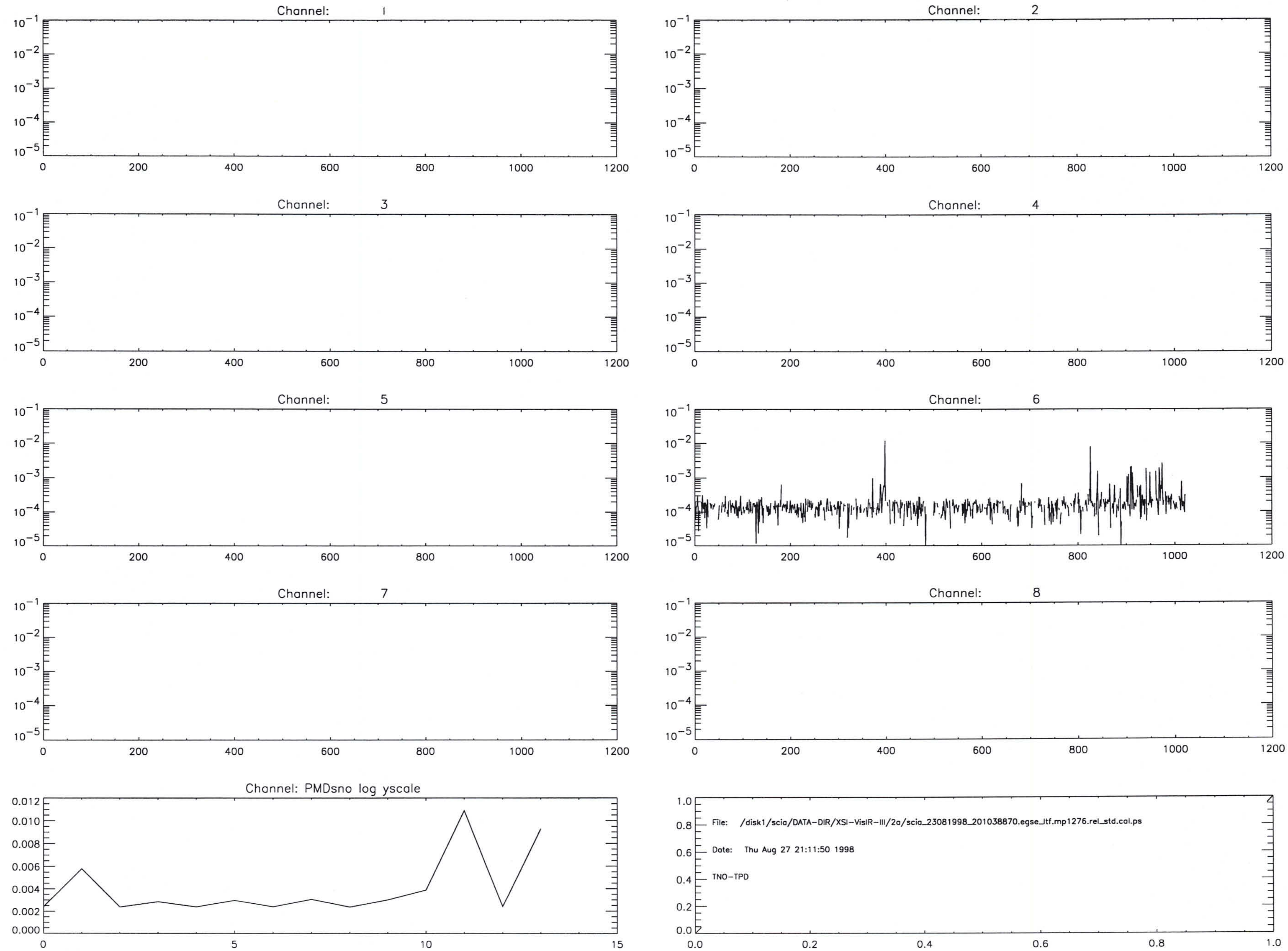
Date: Thu Aug 27 21:11:41 1998
TNO-TPD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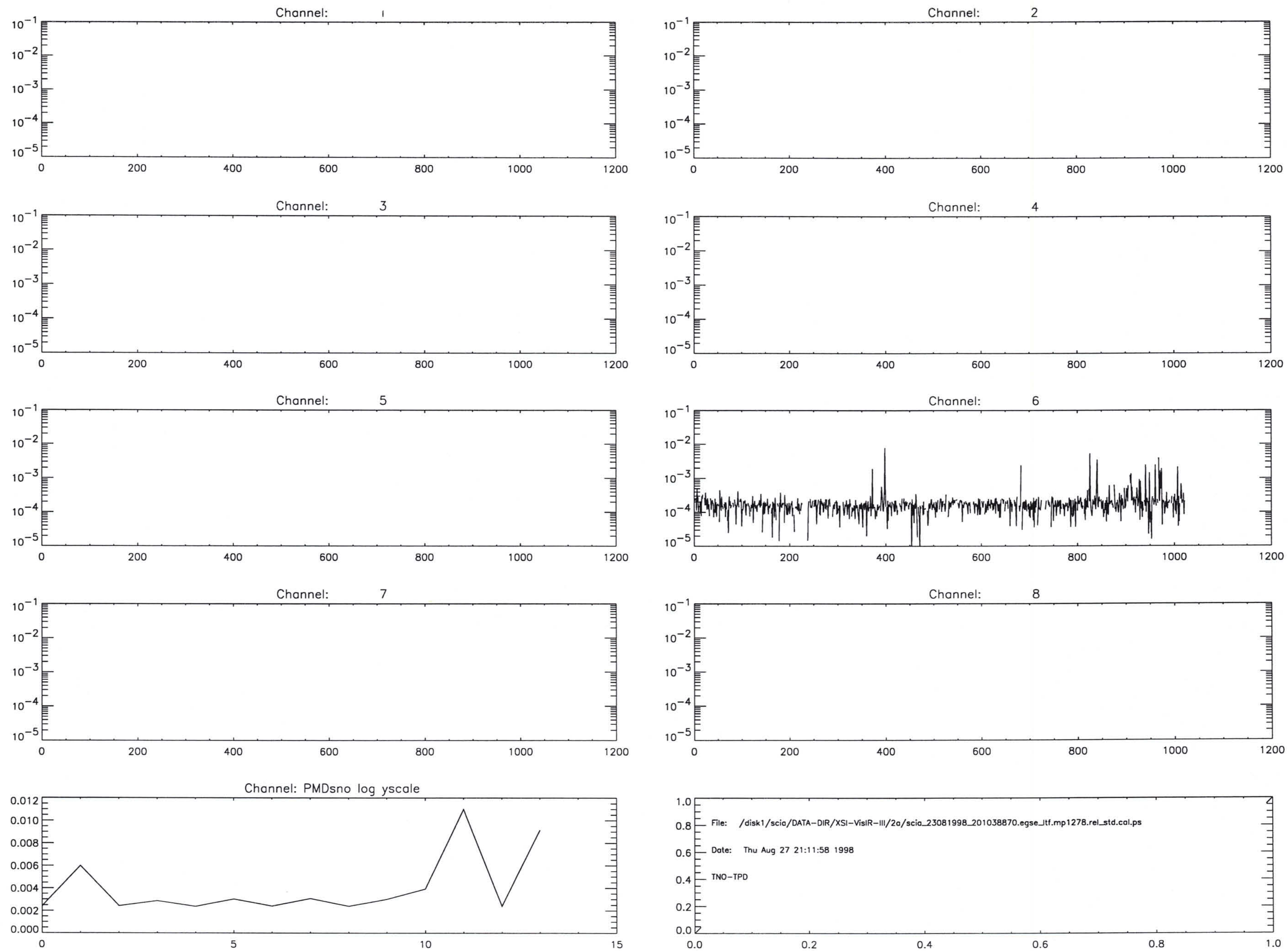
Date: Thu Aug 27 21:11:50 1998
TNO-TPD



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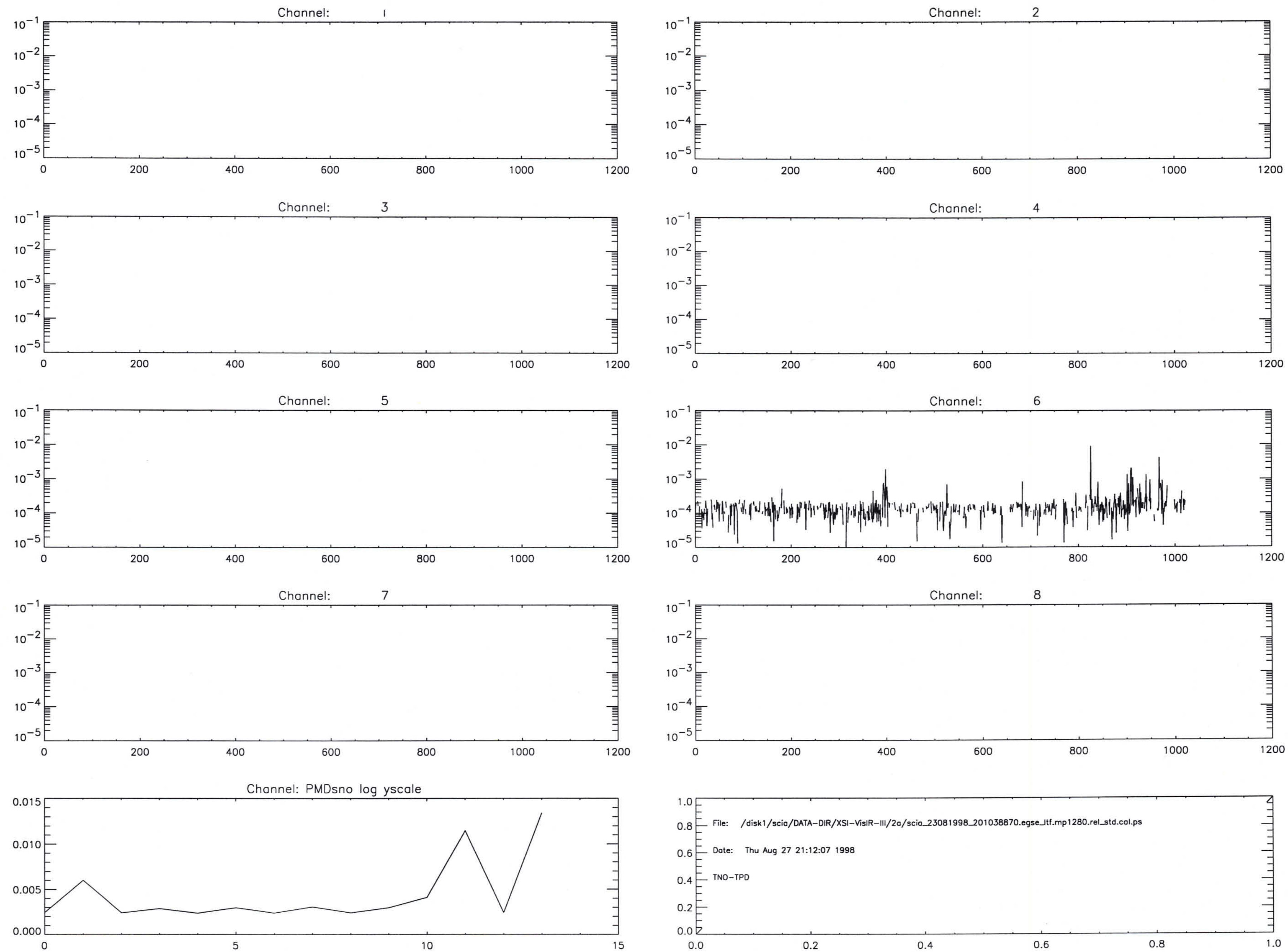
Date: Thu Aug 27 21:11:58 1998
TNO-TPD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Channel: PMDsno log yscale
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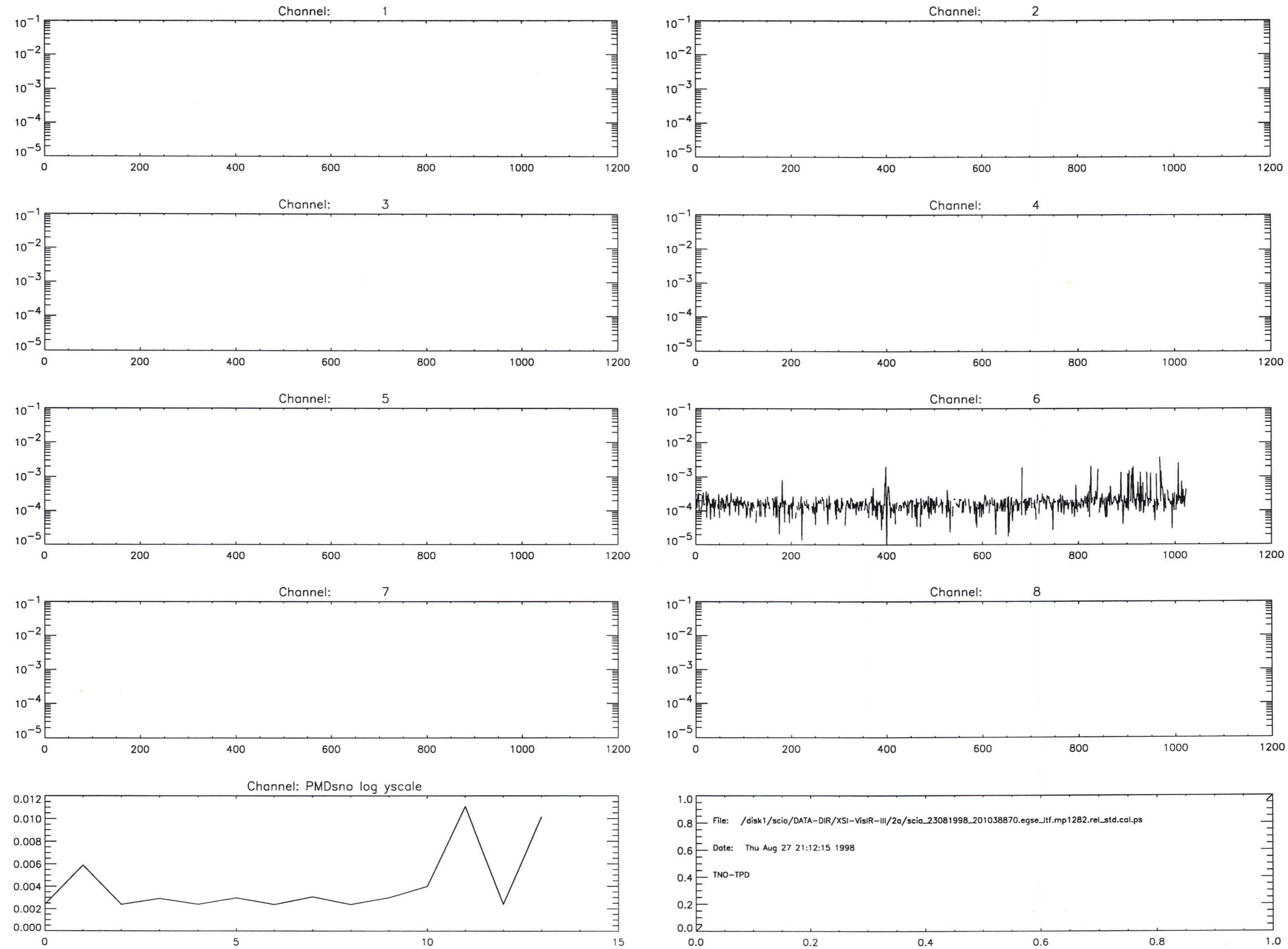
Date: Thu Aug 27 21:12:07 1998
TNO-TPD



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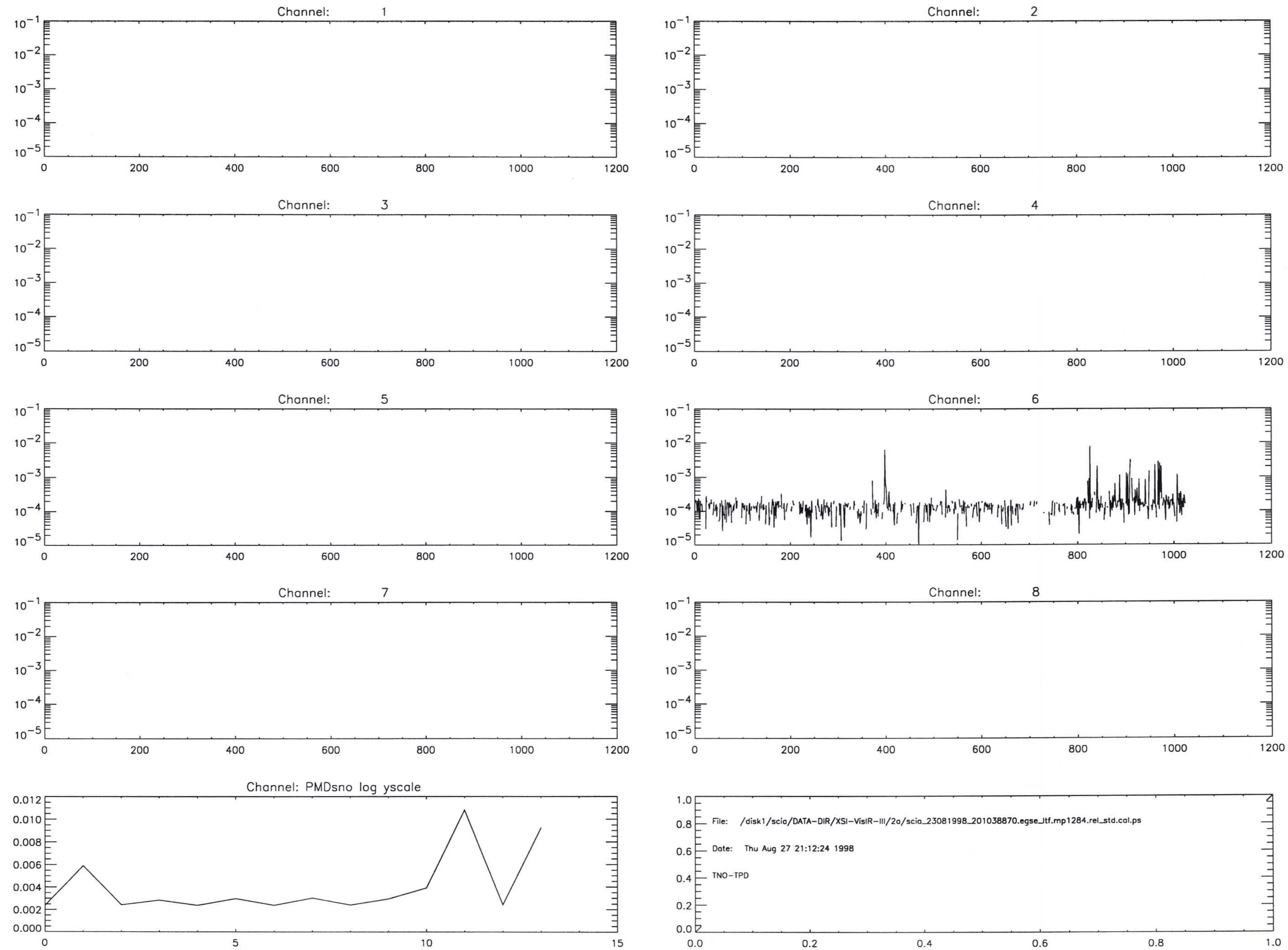
Date: Thu Aug 27 21:12:15 1998
TNO-TPD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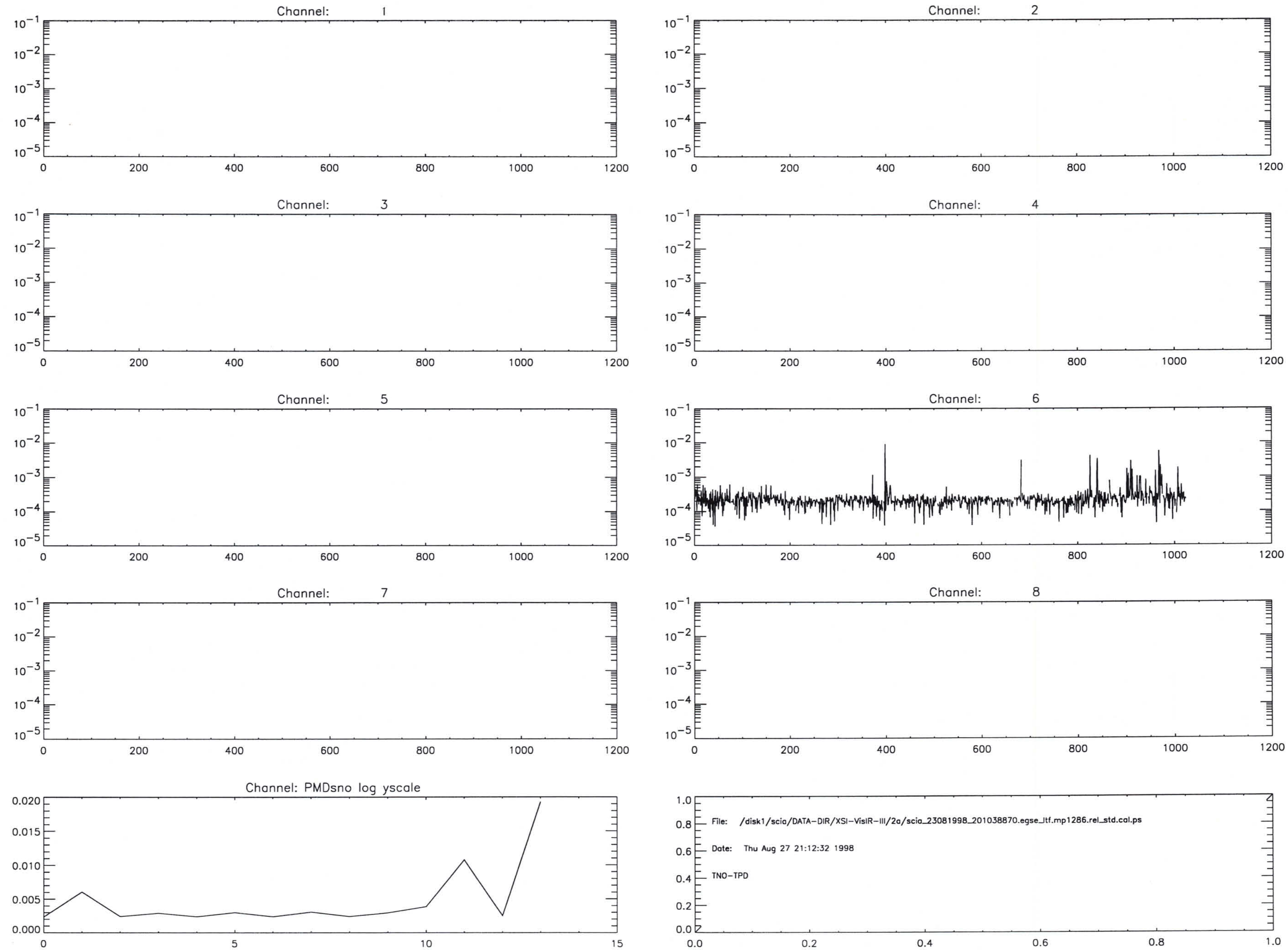
Date: Thu Aug 27 21:12:24 1998
TNO-TPD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Date: Thu Aug 27 21:12:32 1998
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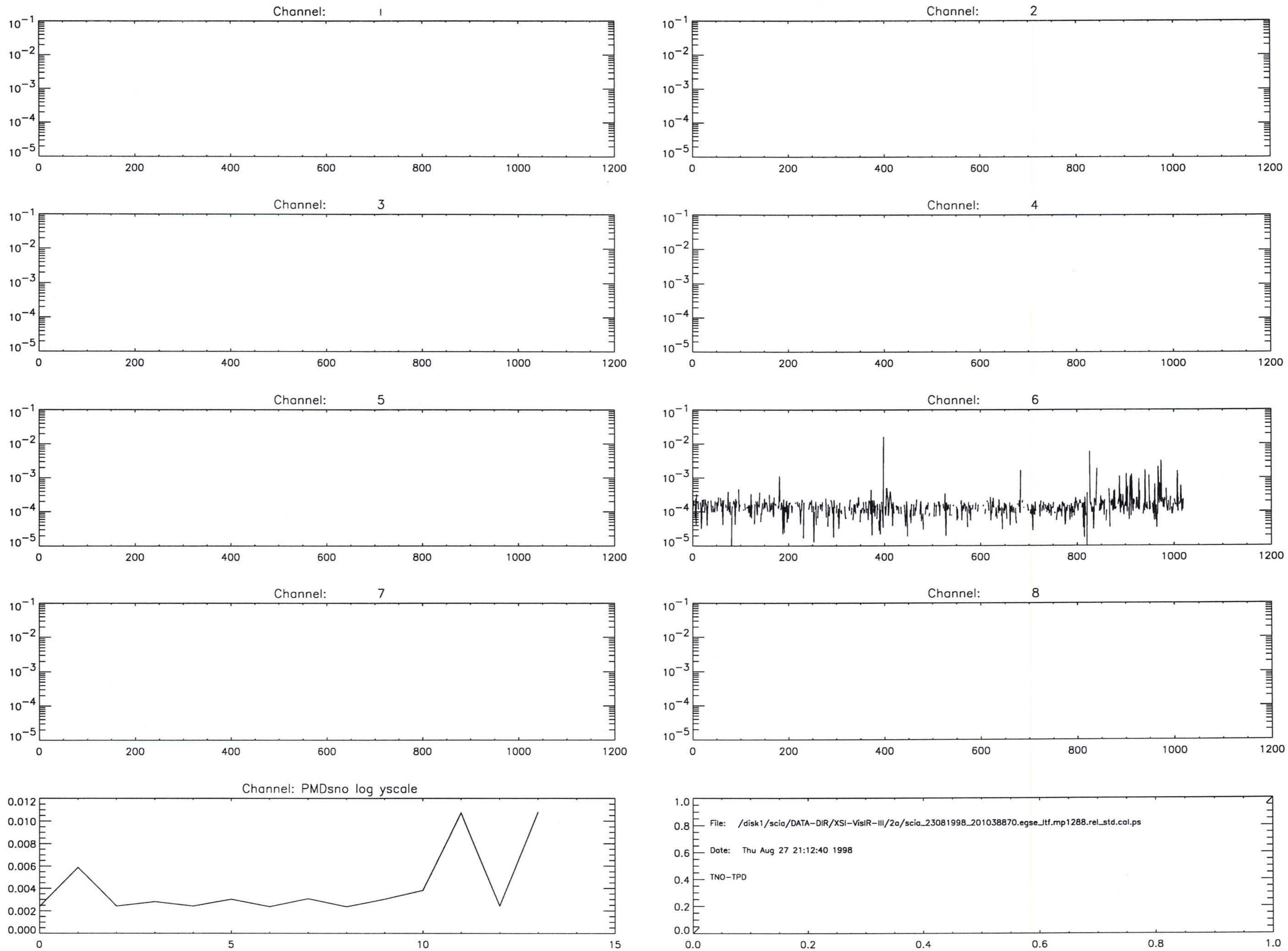
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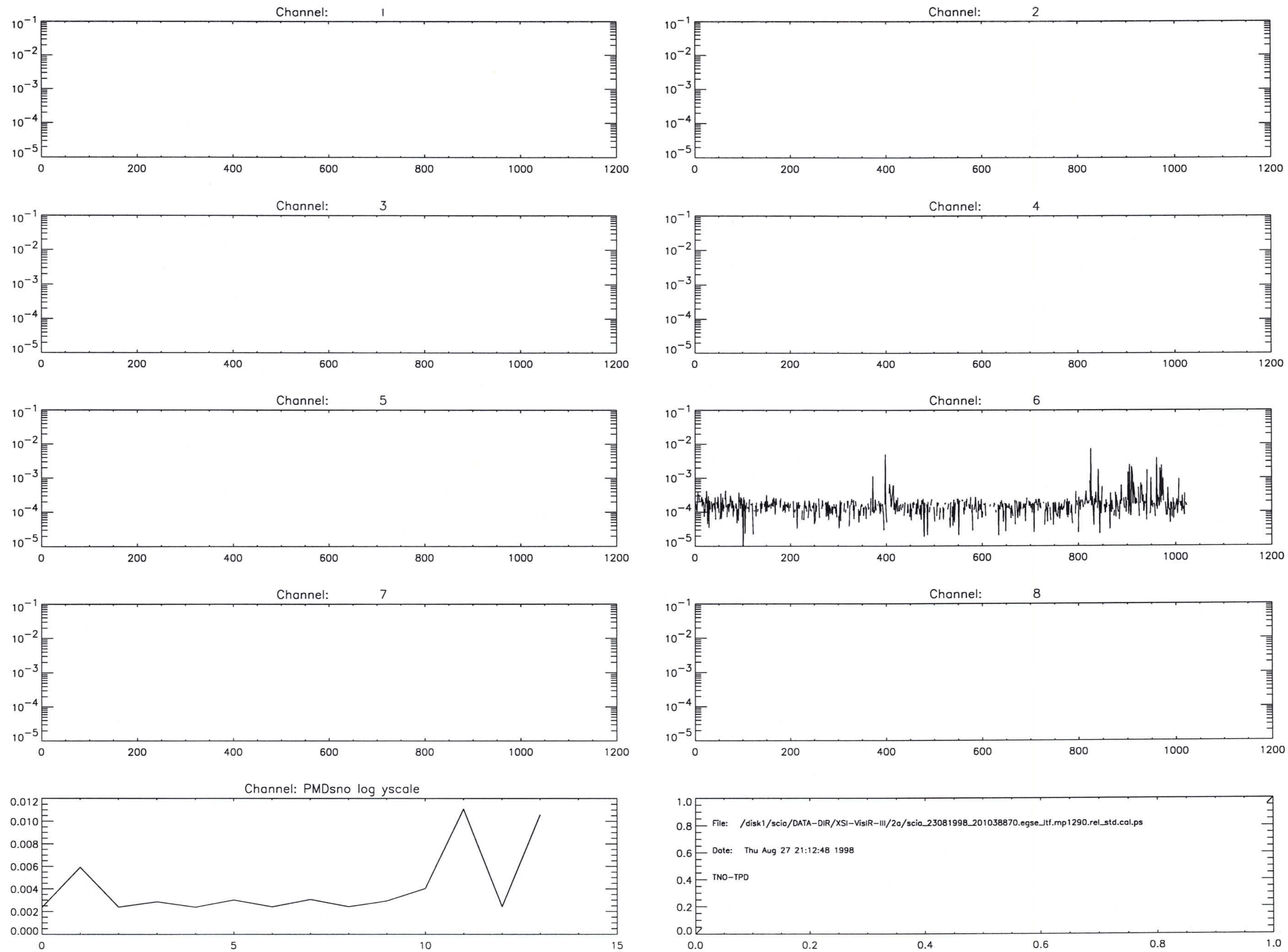
Date: Thu Aug 27 21:12:40 1998
TNO-TPD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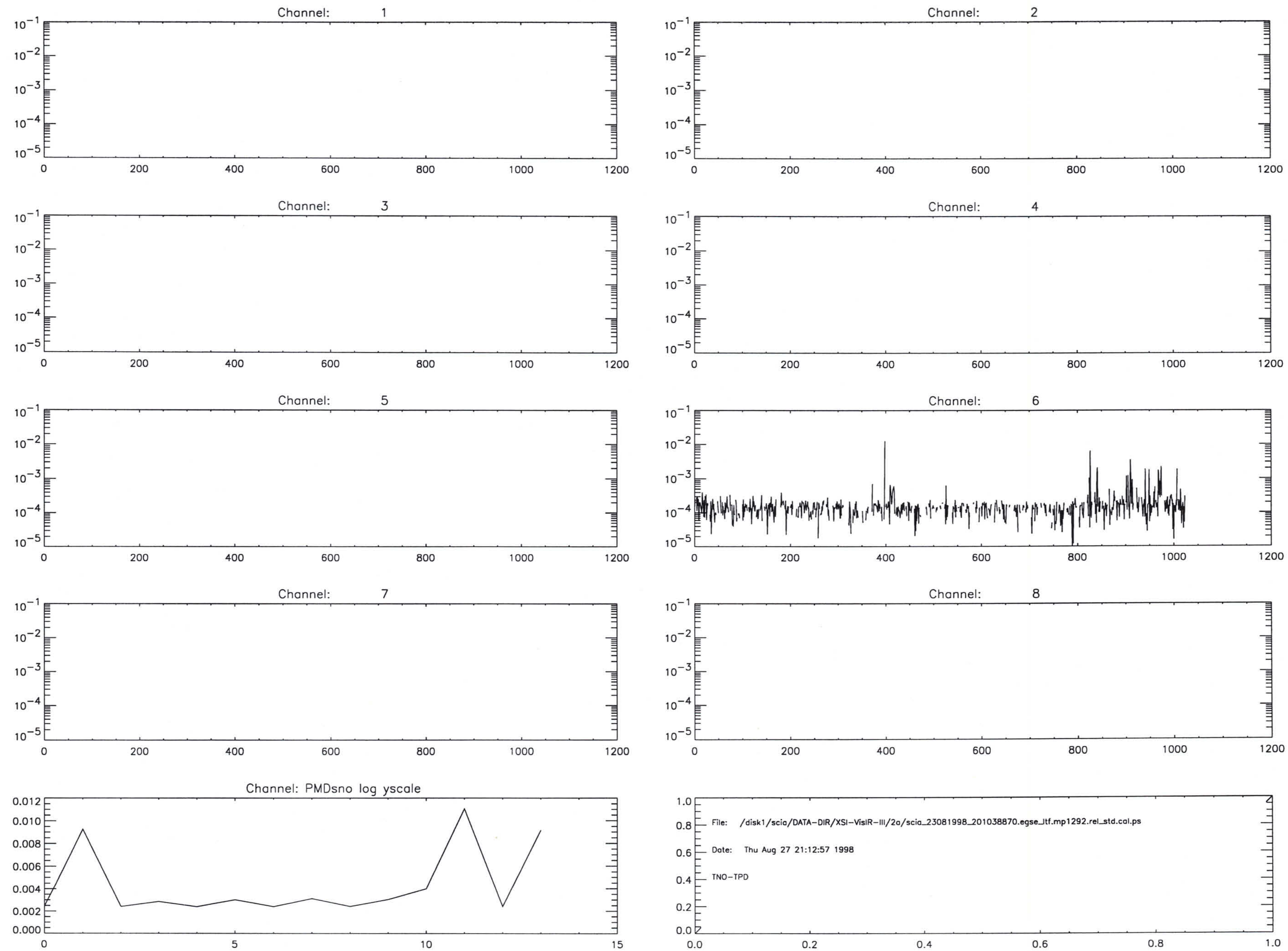
Date: Thu Aug 27 21:12:48 1998
TNO-TPD



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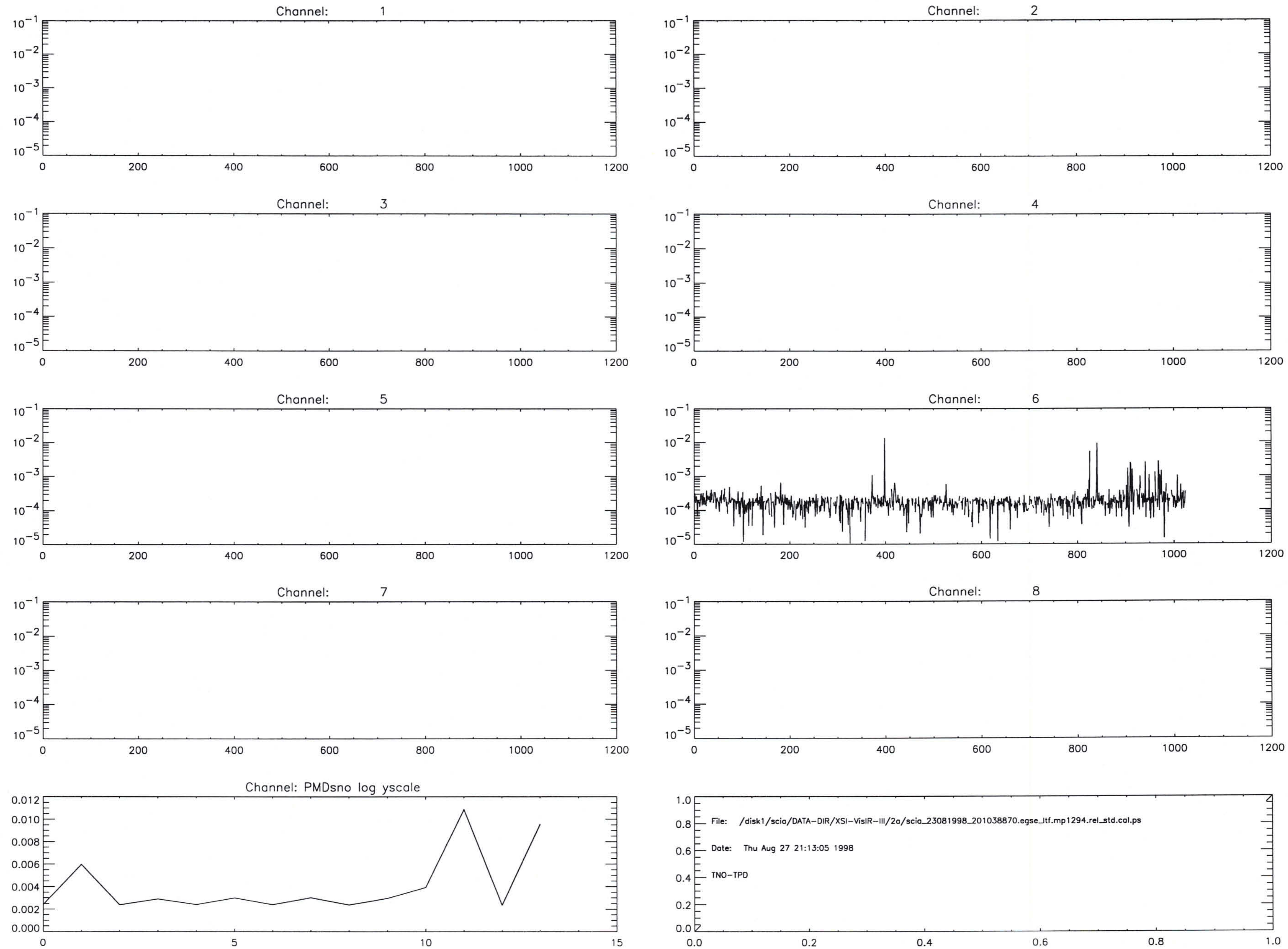
Date: Thu Aug 27 21:12:57 1998
TNO-TPD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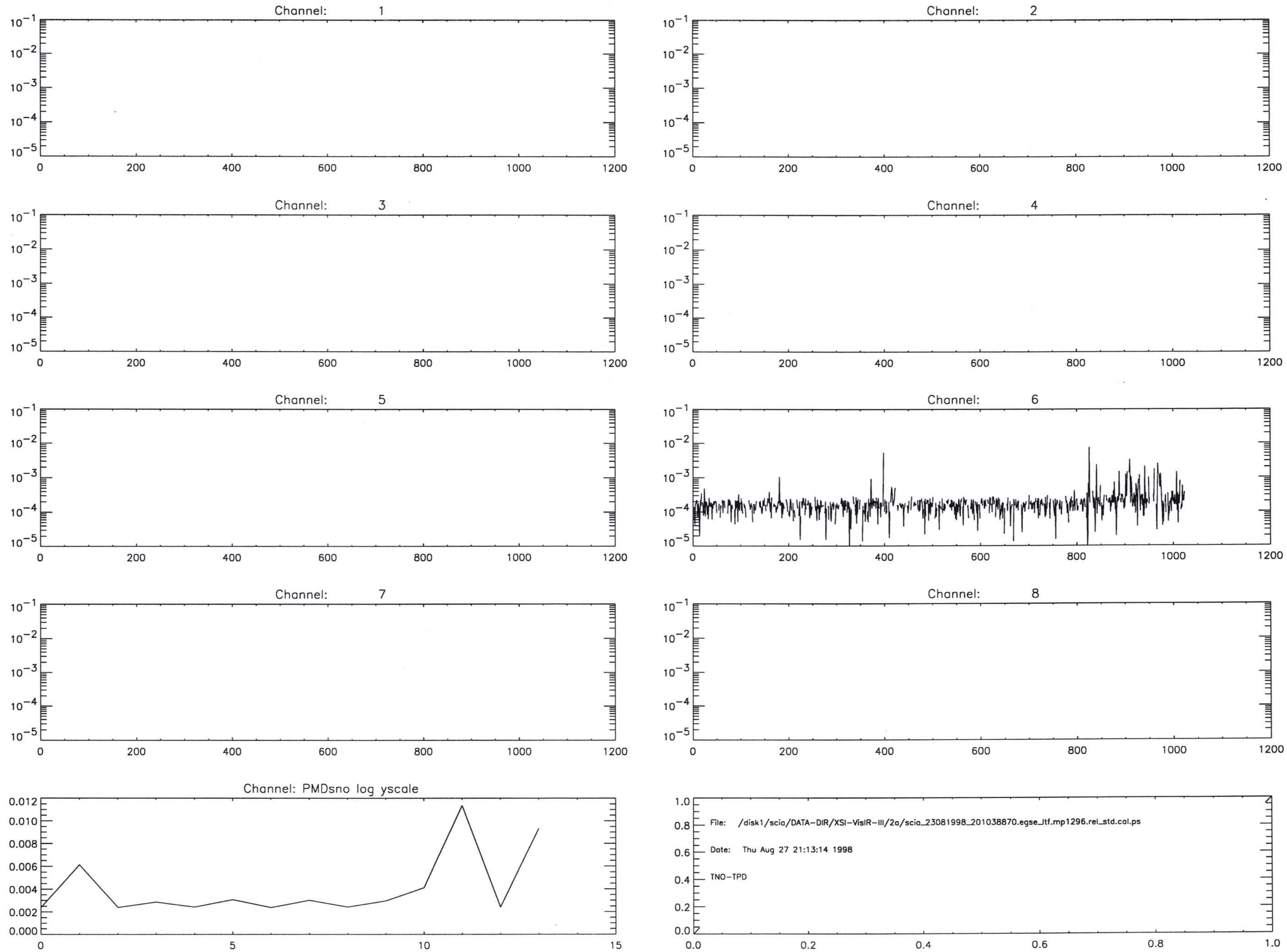
TNO-TPD



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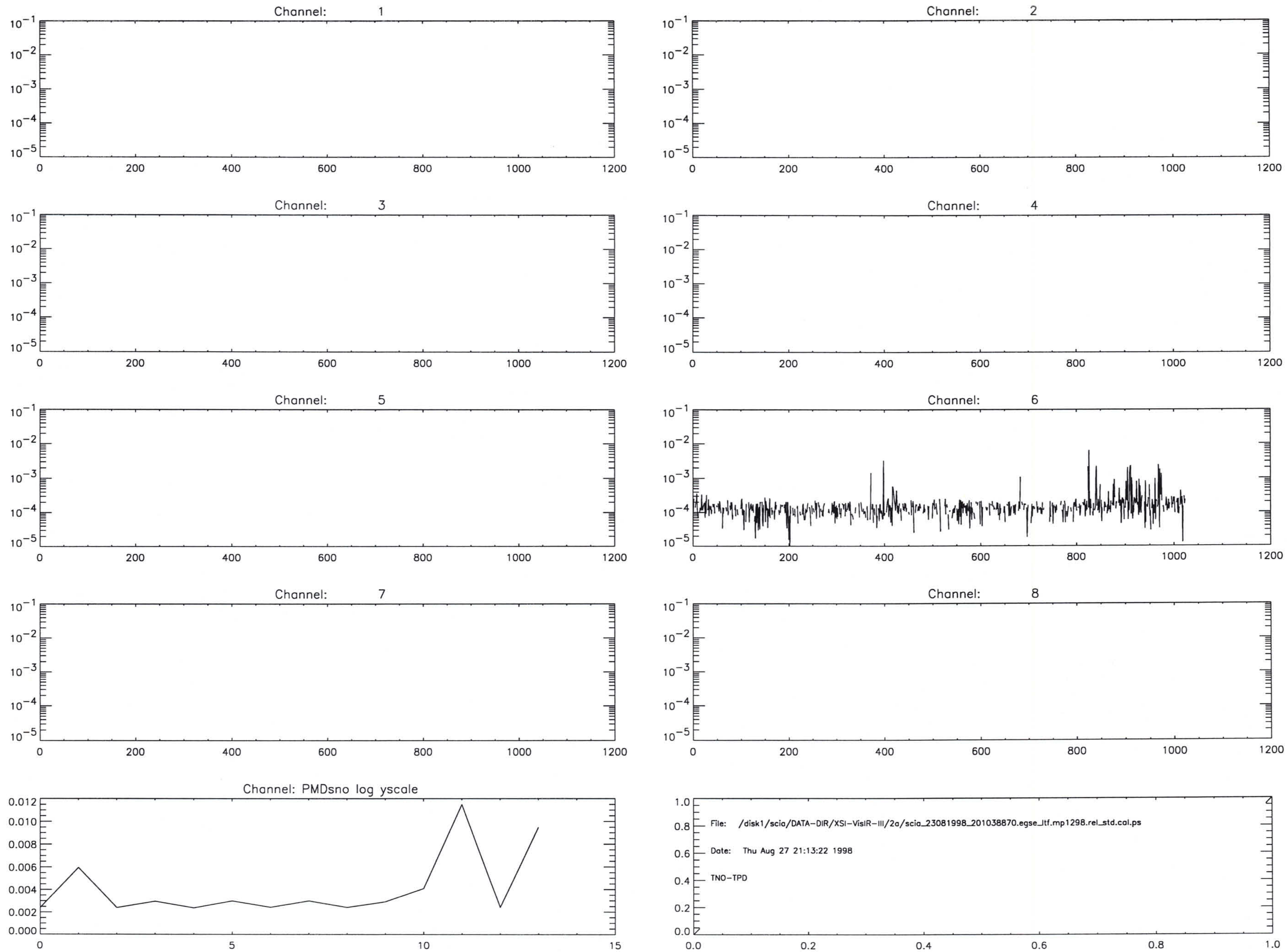
TNO-TPD



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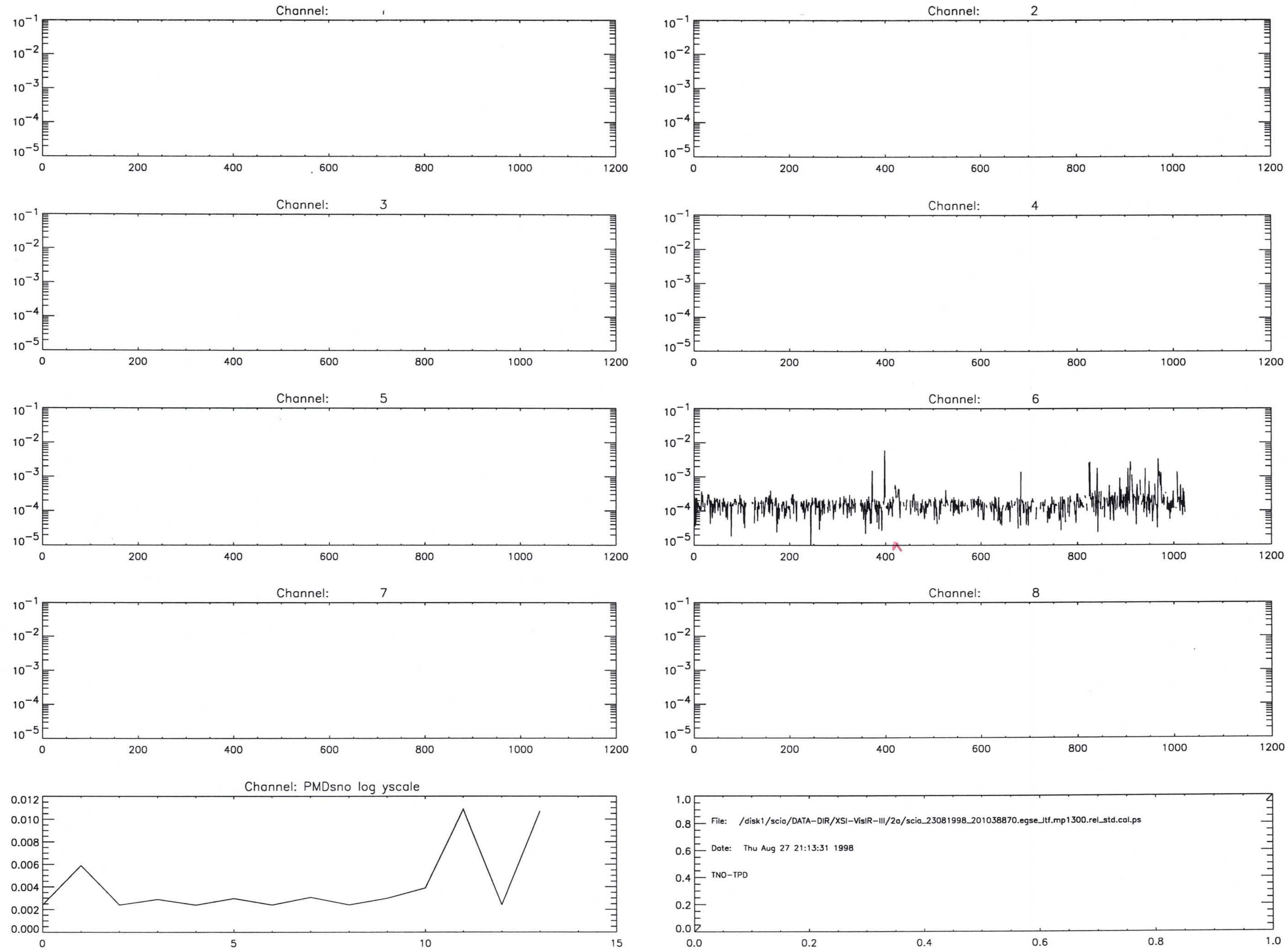
TNO-TPD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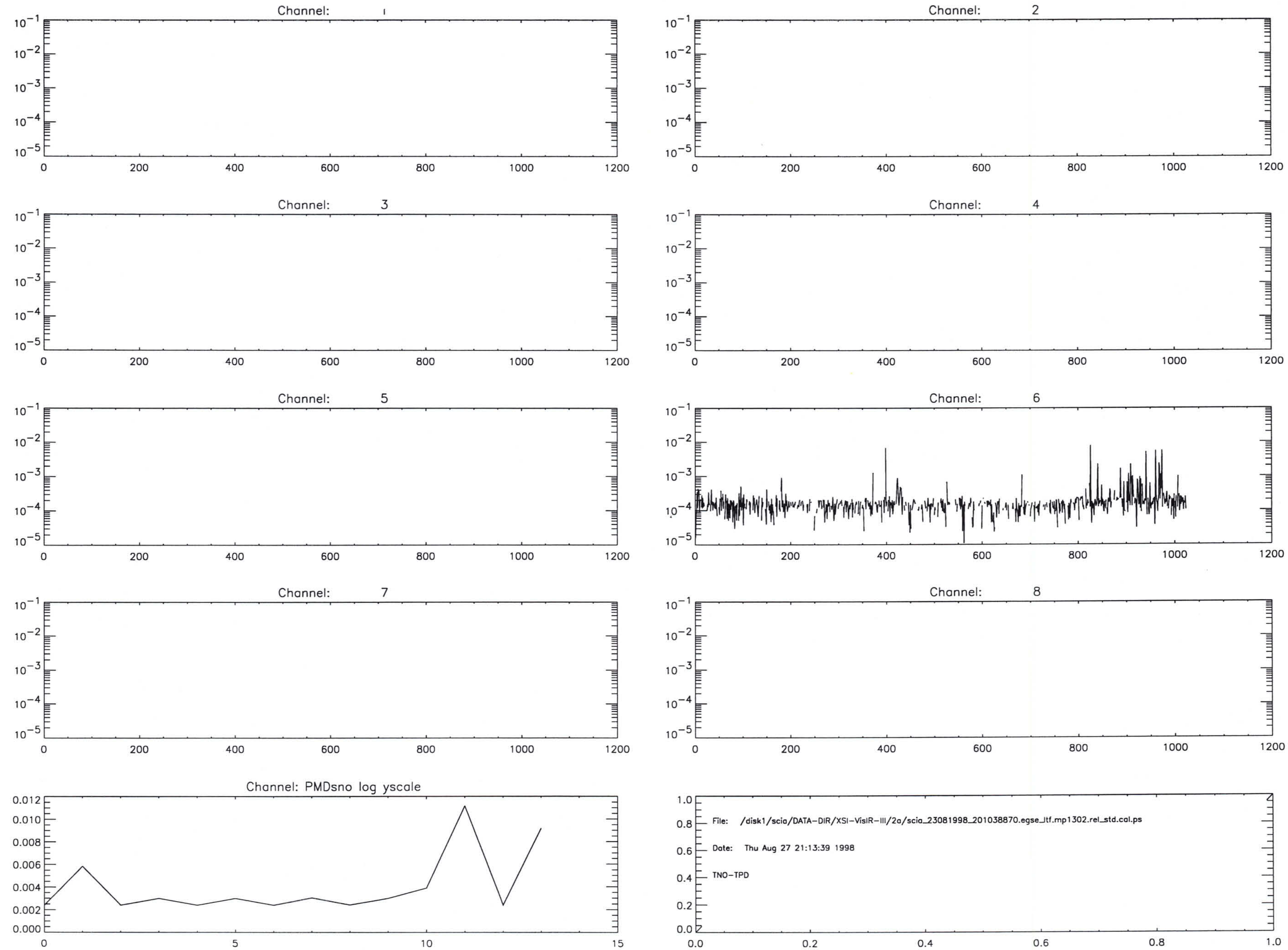
TNO-TPD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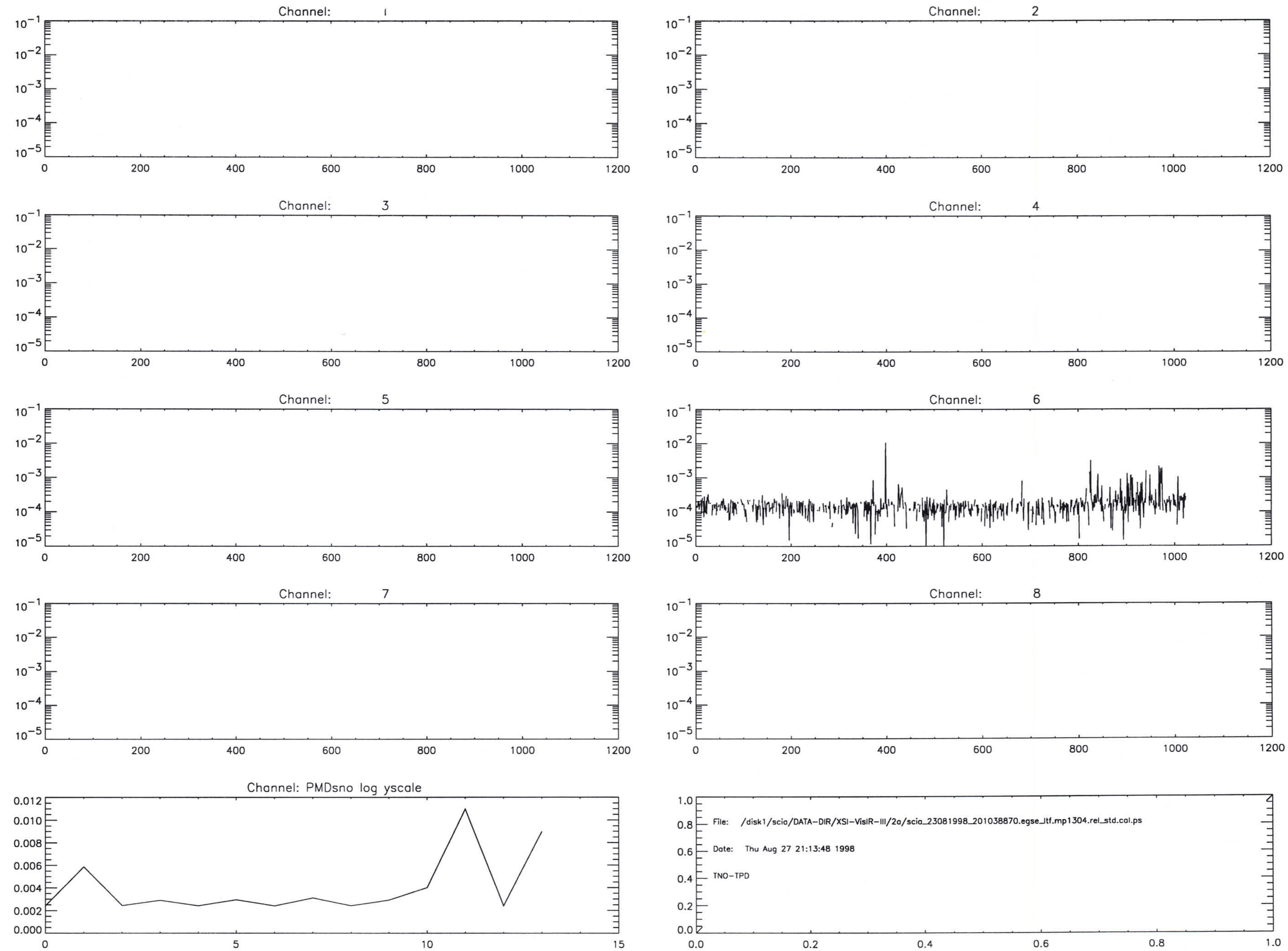
TNO-TPD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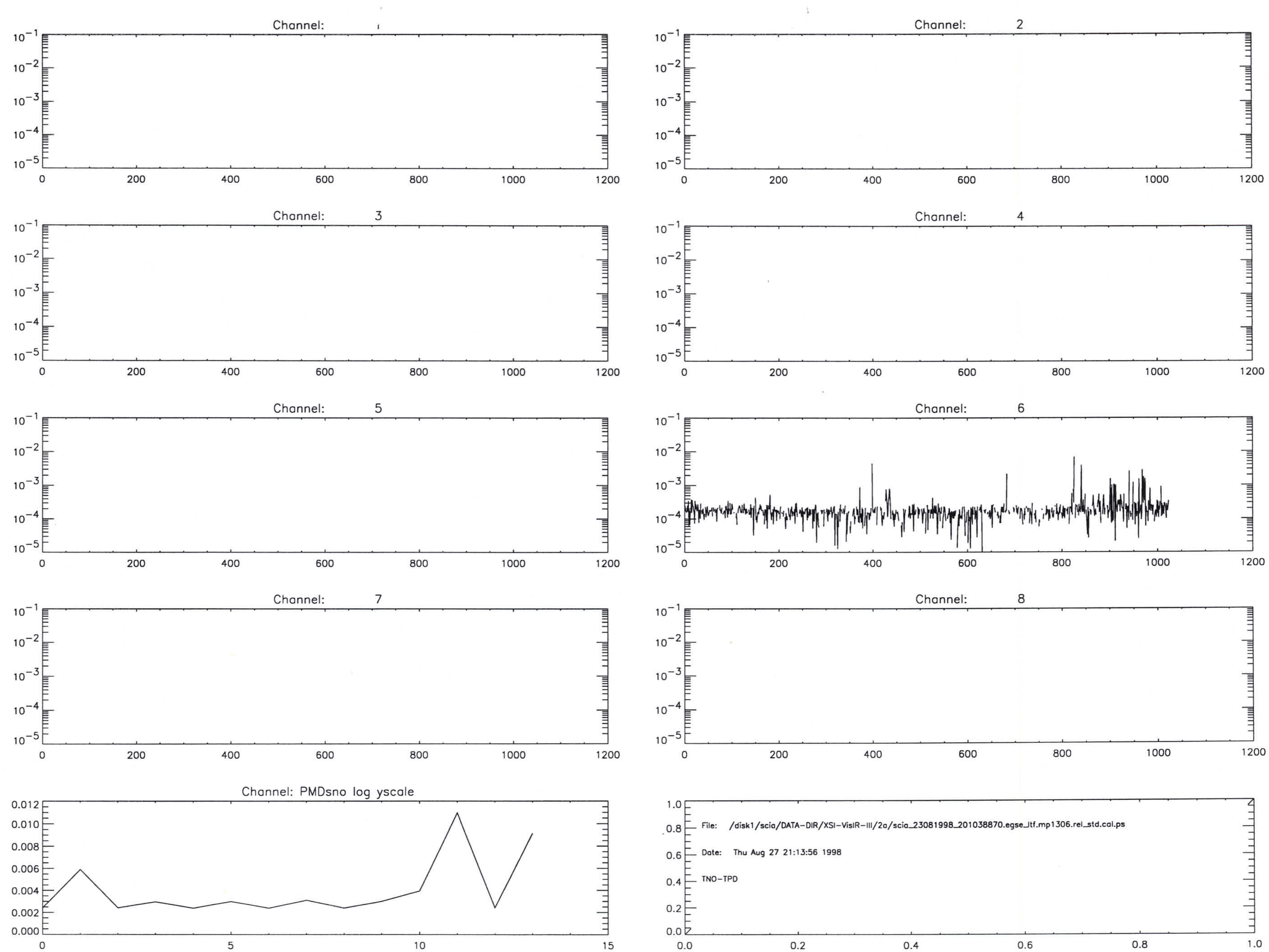
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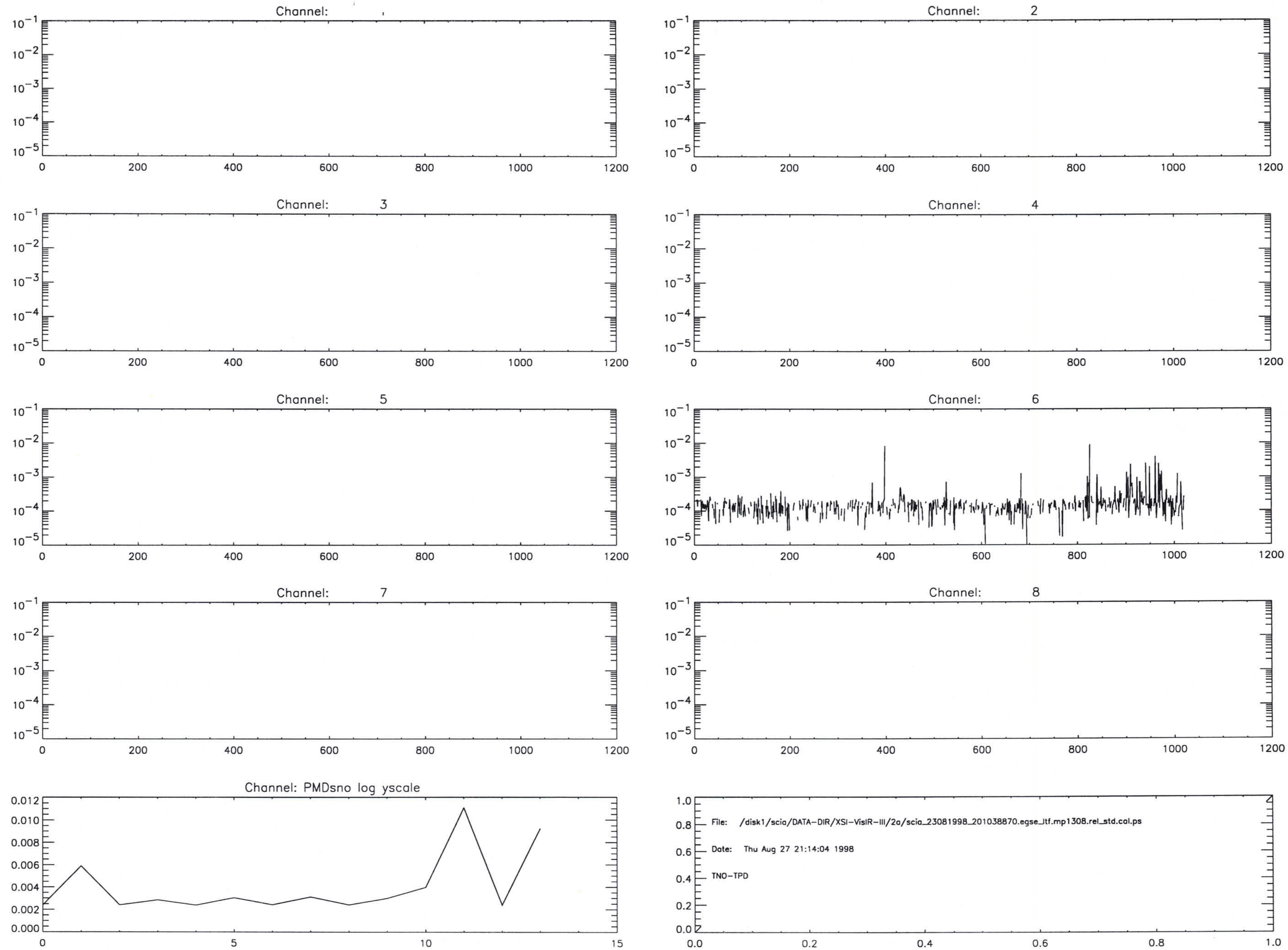

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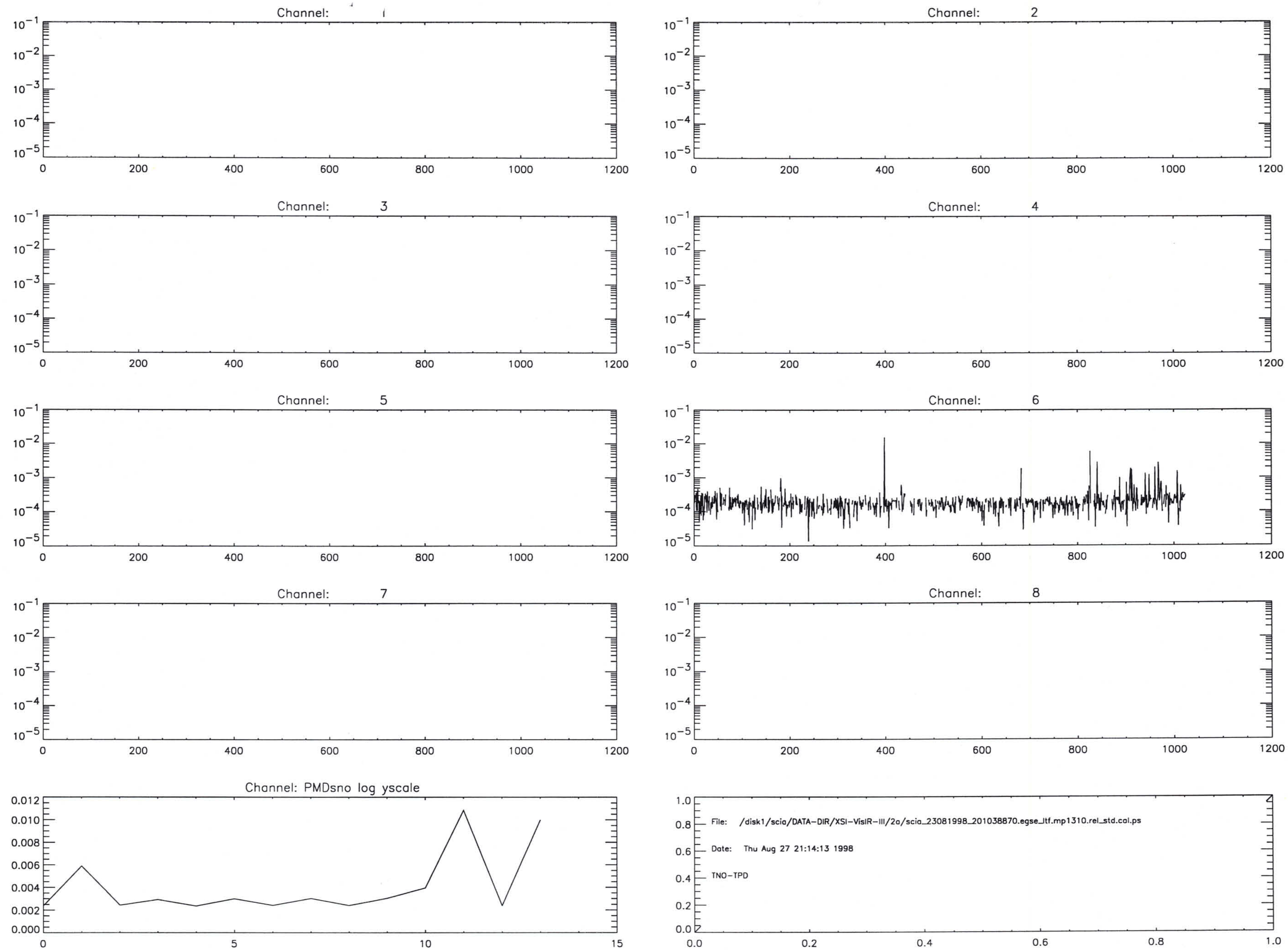

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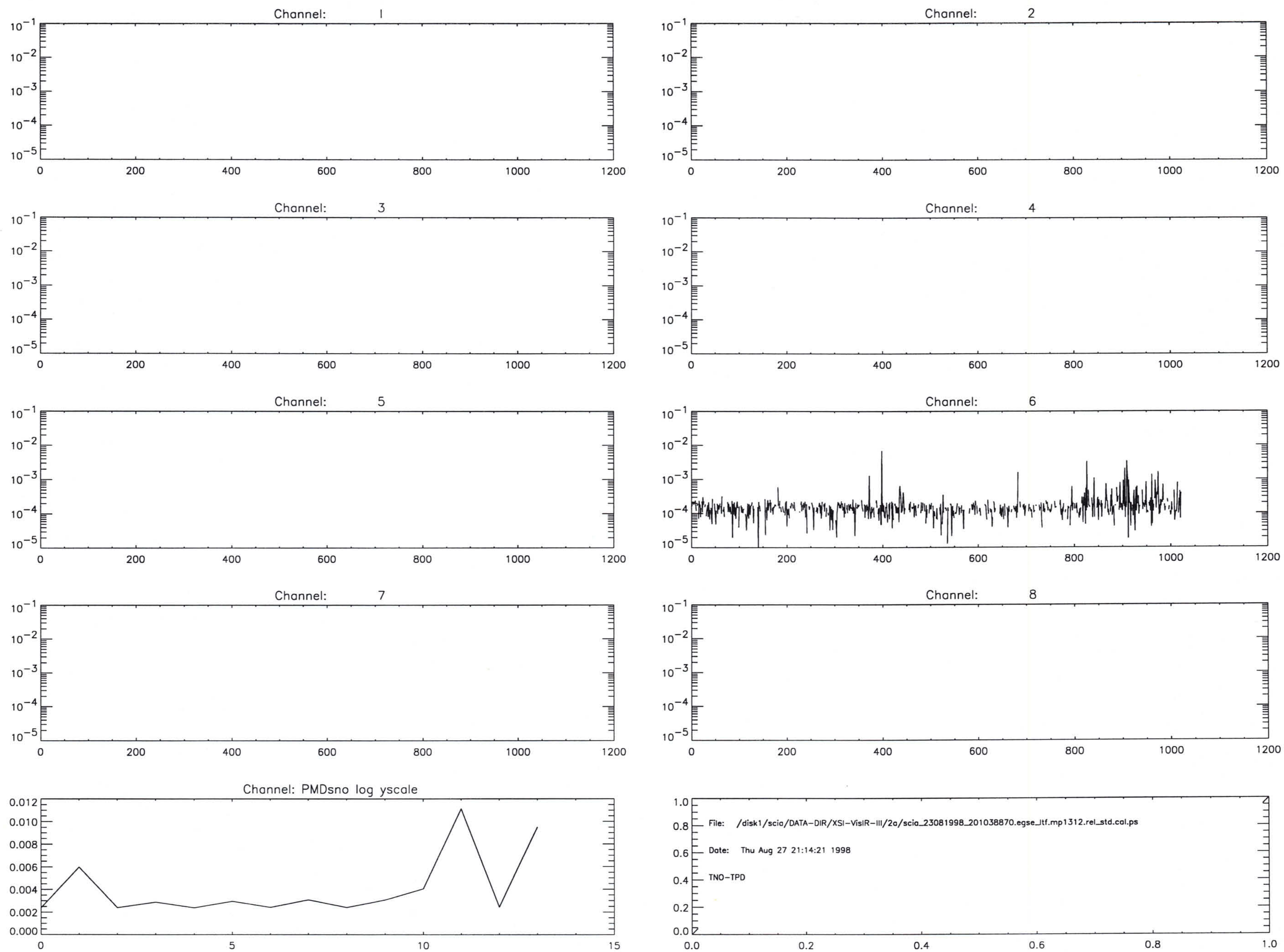
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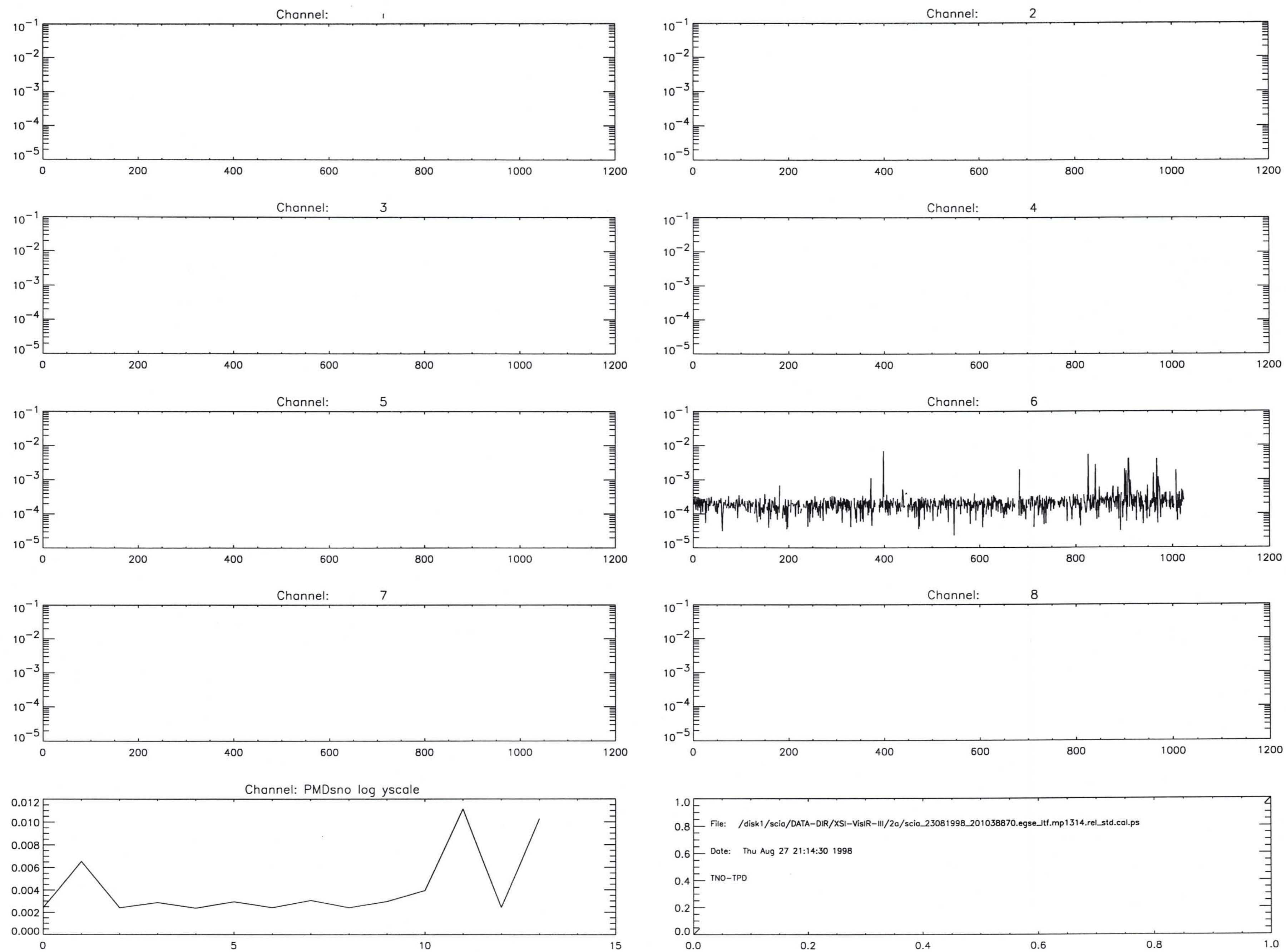
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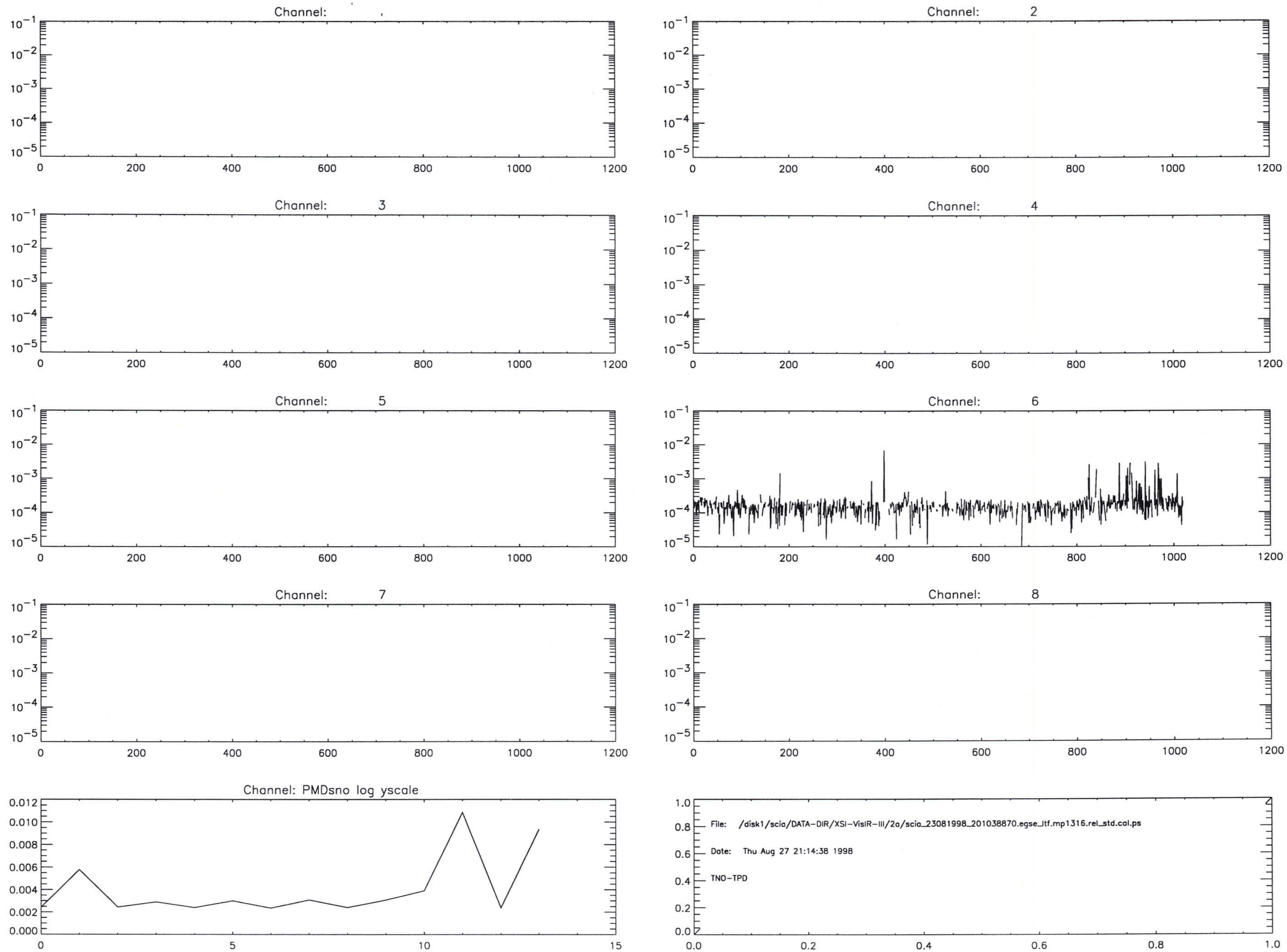
TNO-TPD



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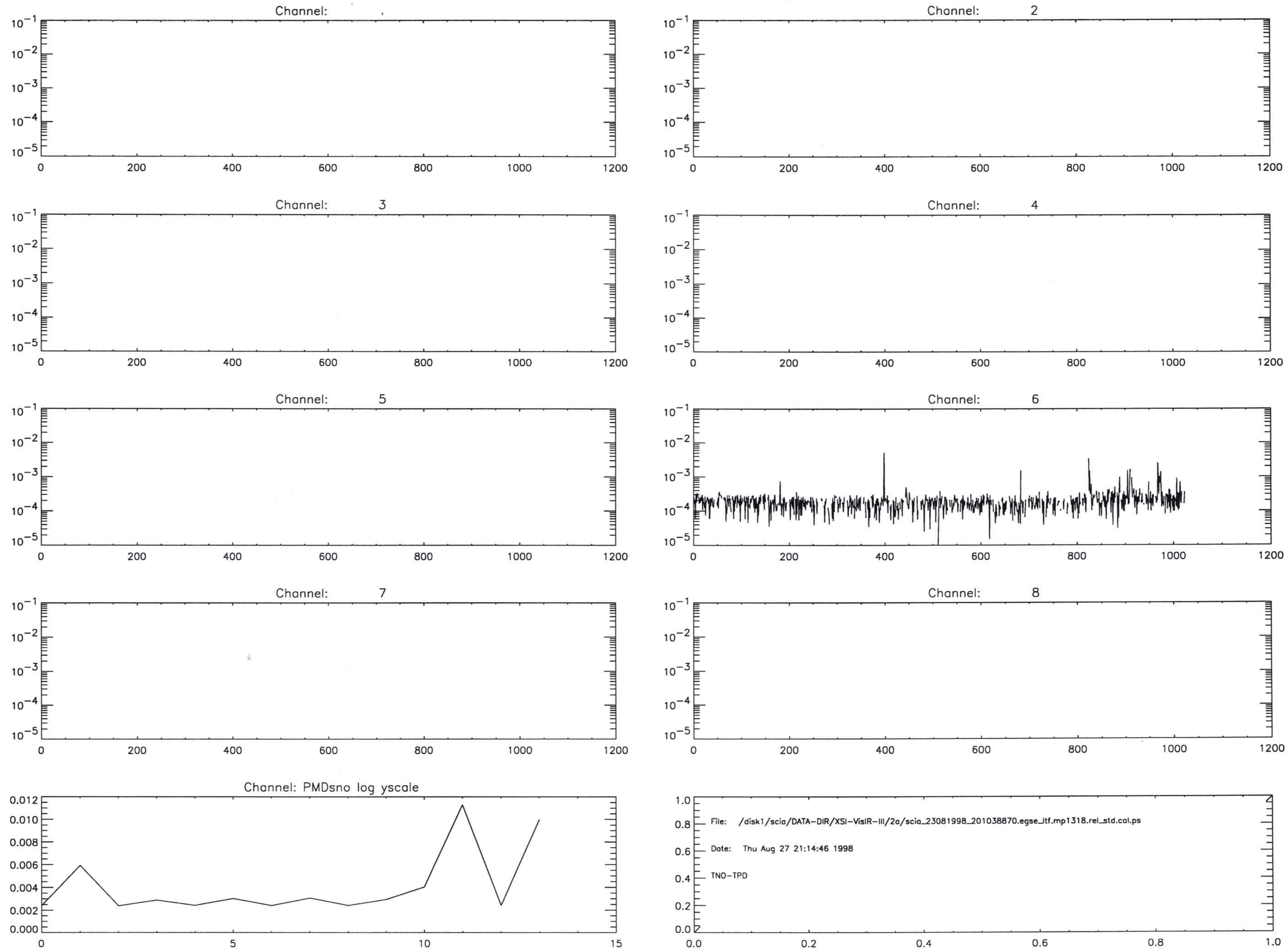
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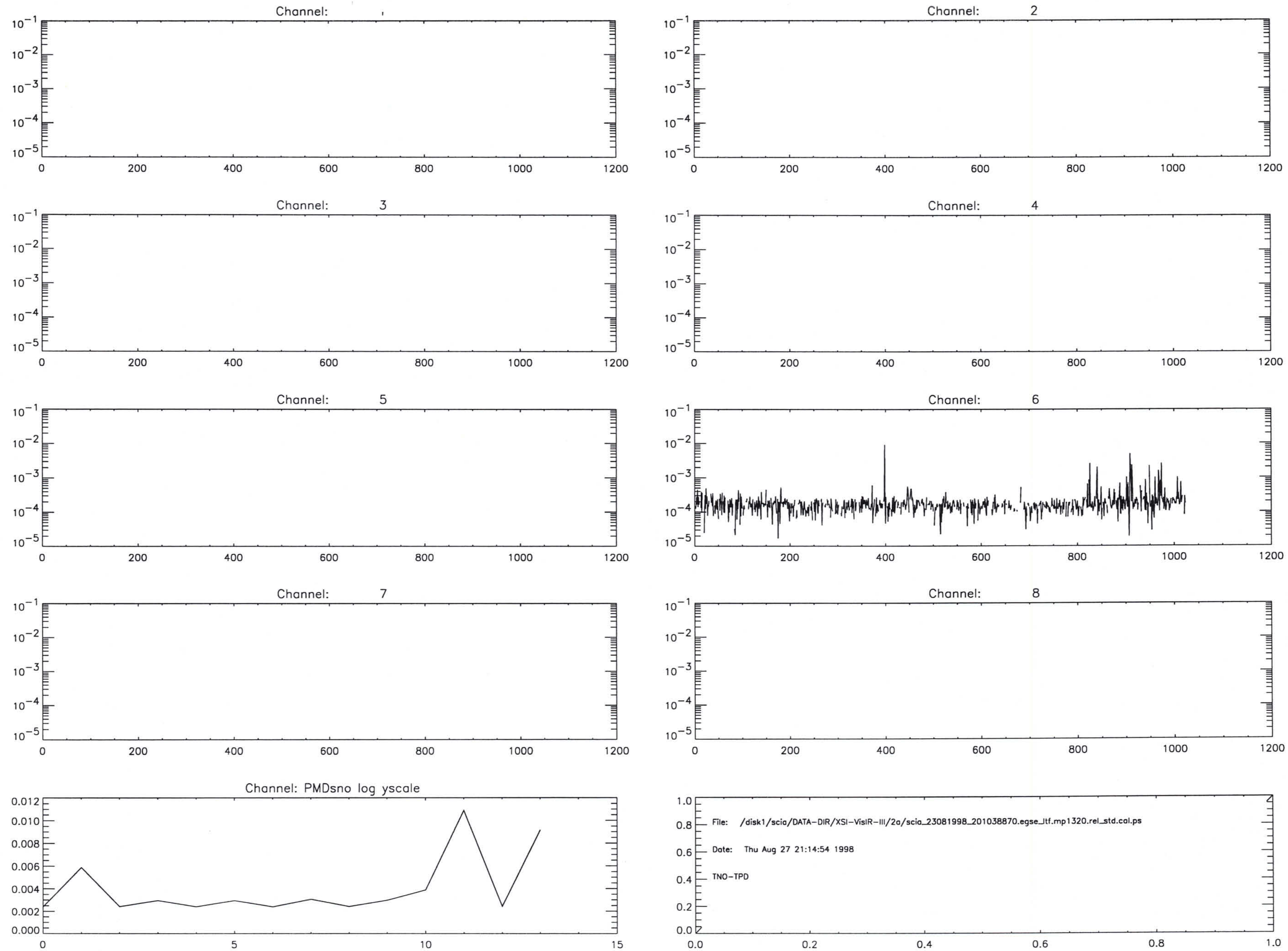
Date: Thu Aug 27 21:14:46 1998
TNO-TPD



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Channel: 8
Channel: PMDsno log yscale
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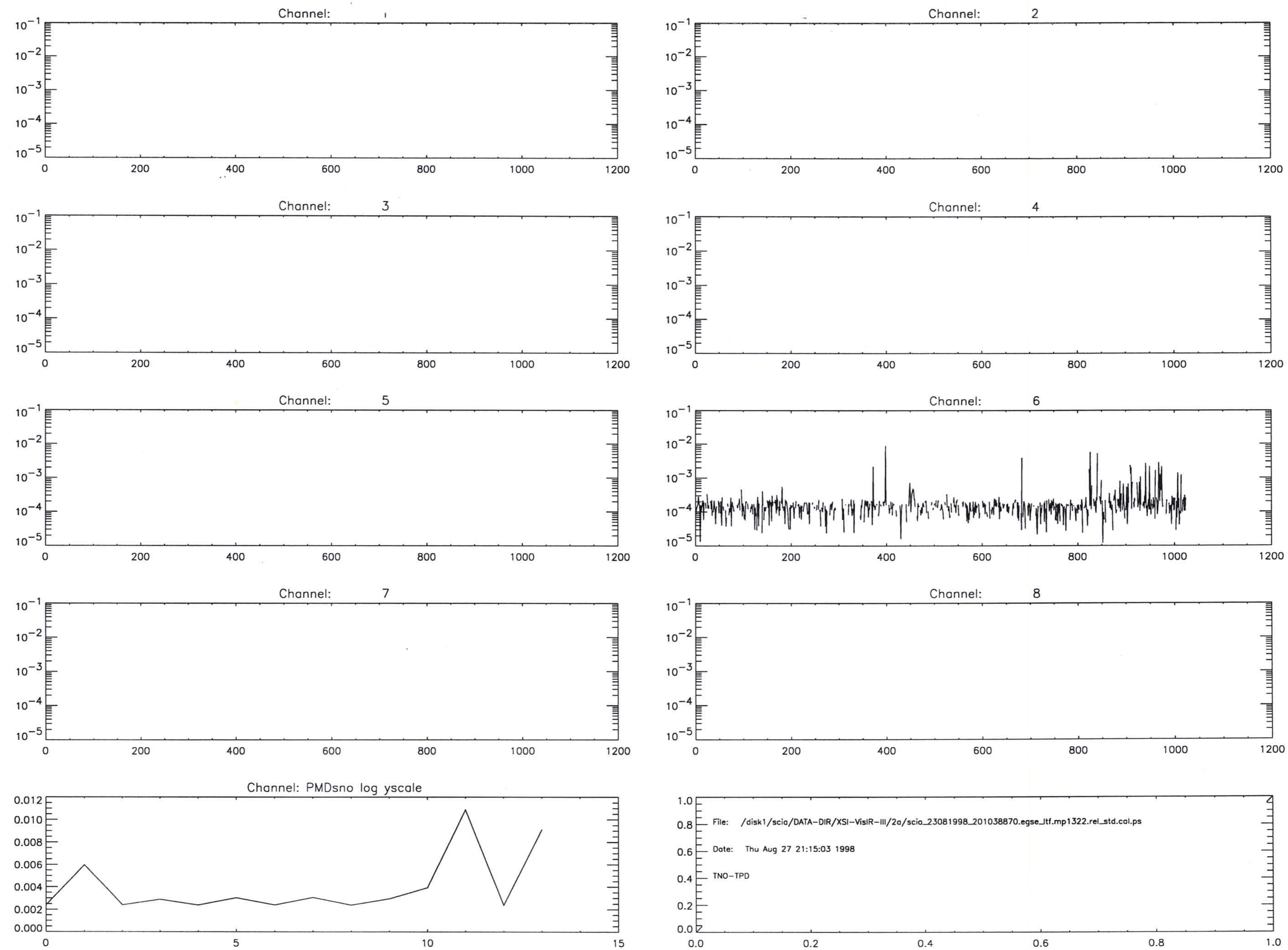
TNO-TPD



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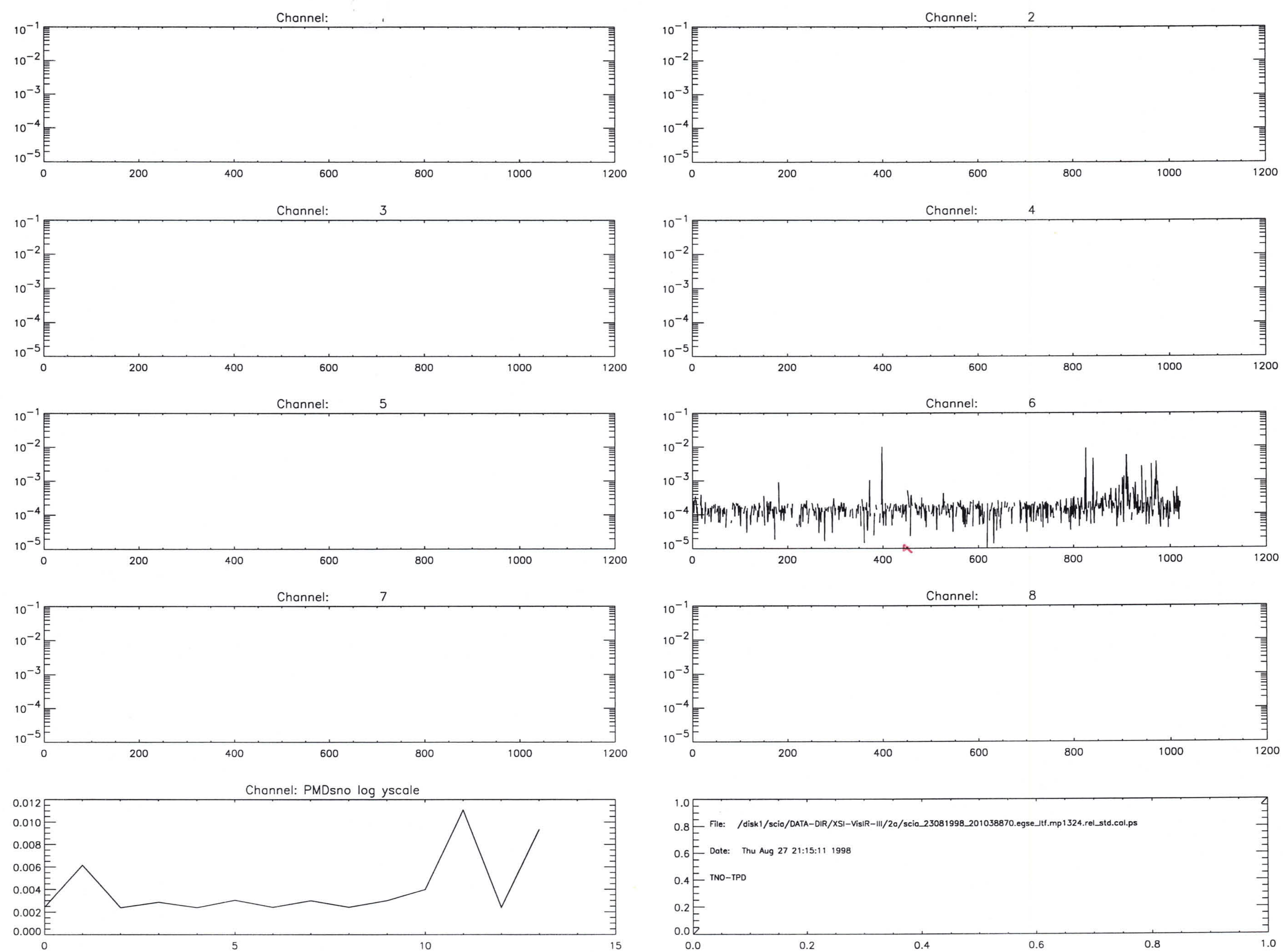
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Channel: 8
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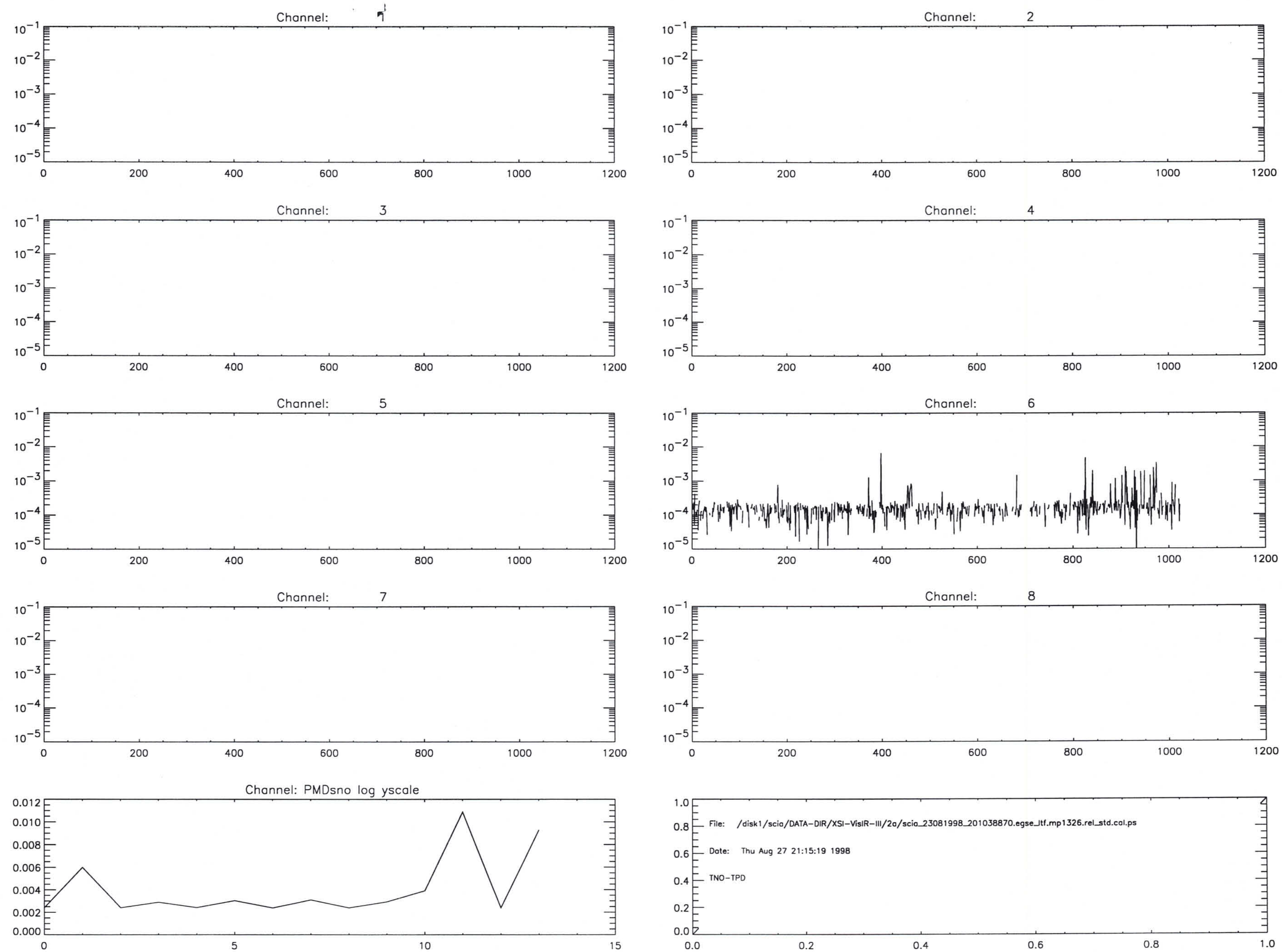
TNO-TPD



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Channel: 8
Channel: PMDsno log yscale
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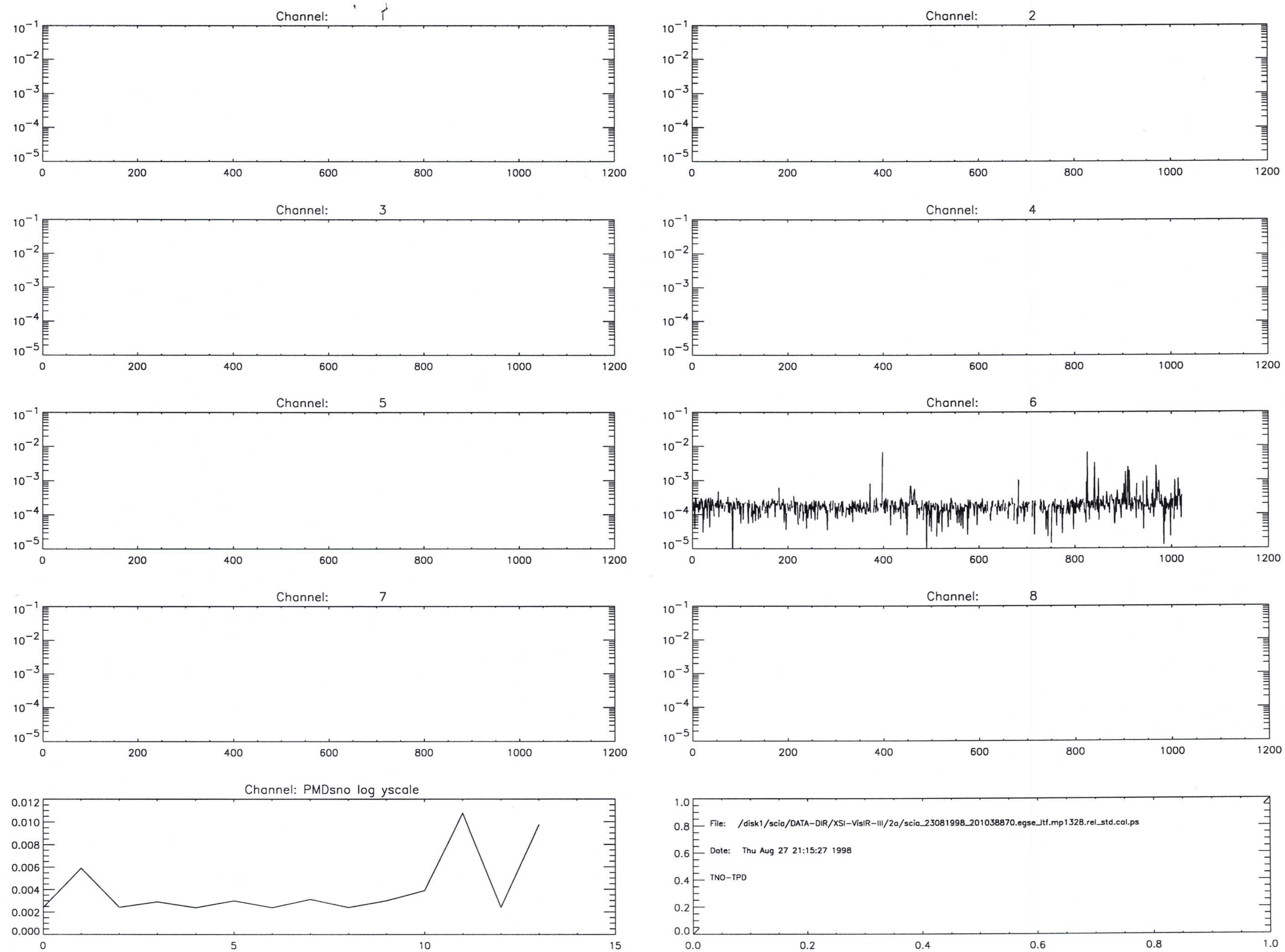
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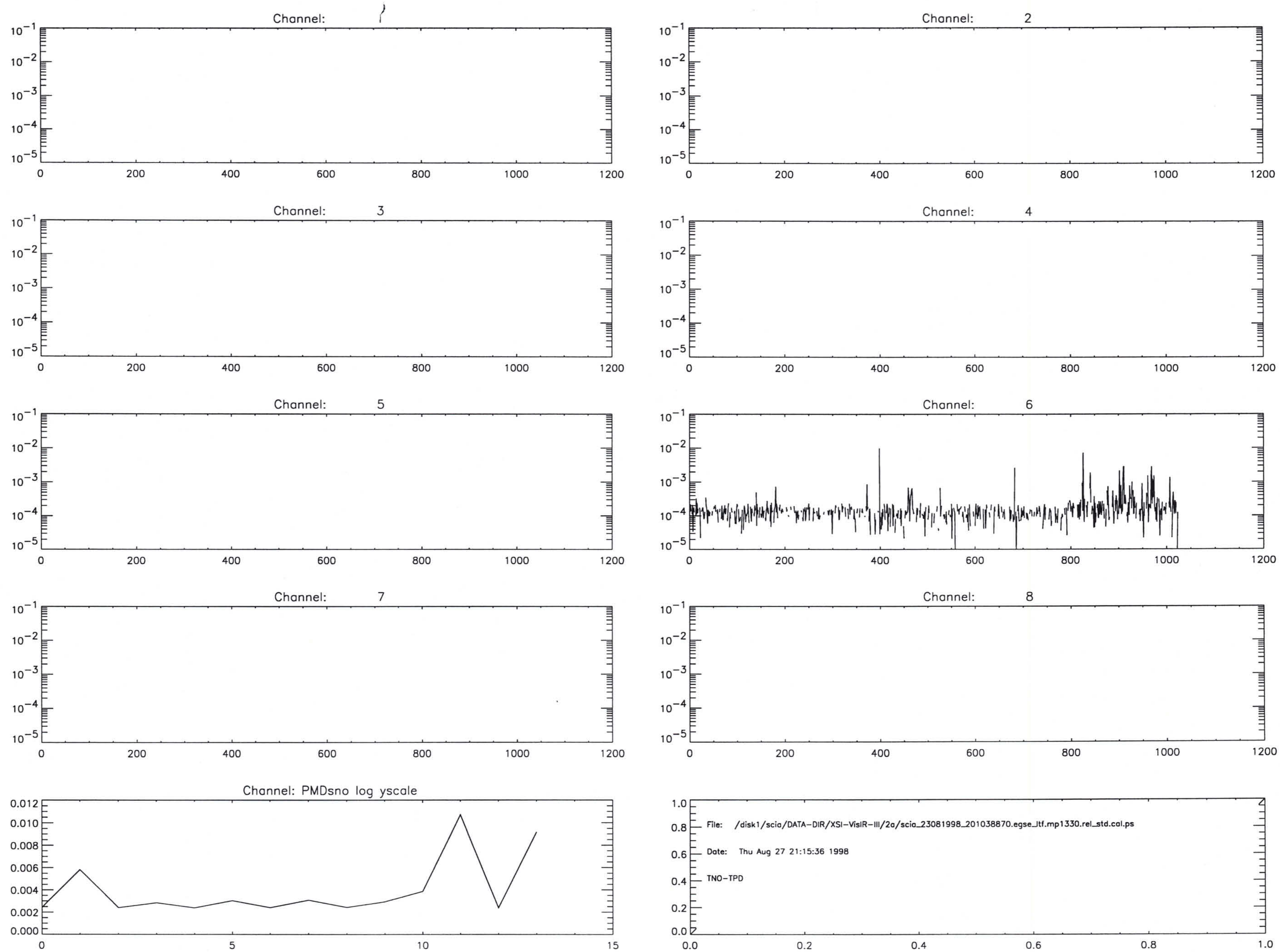
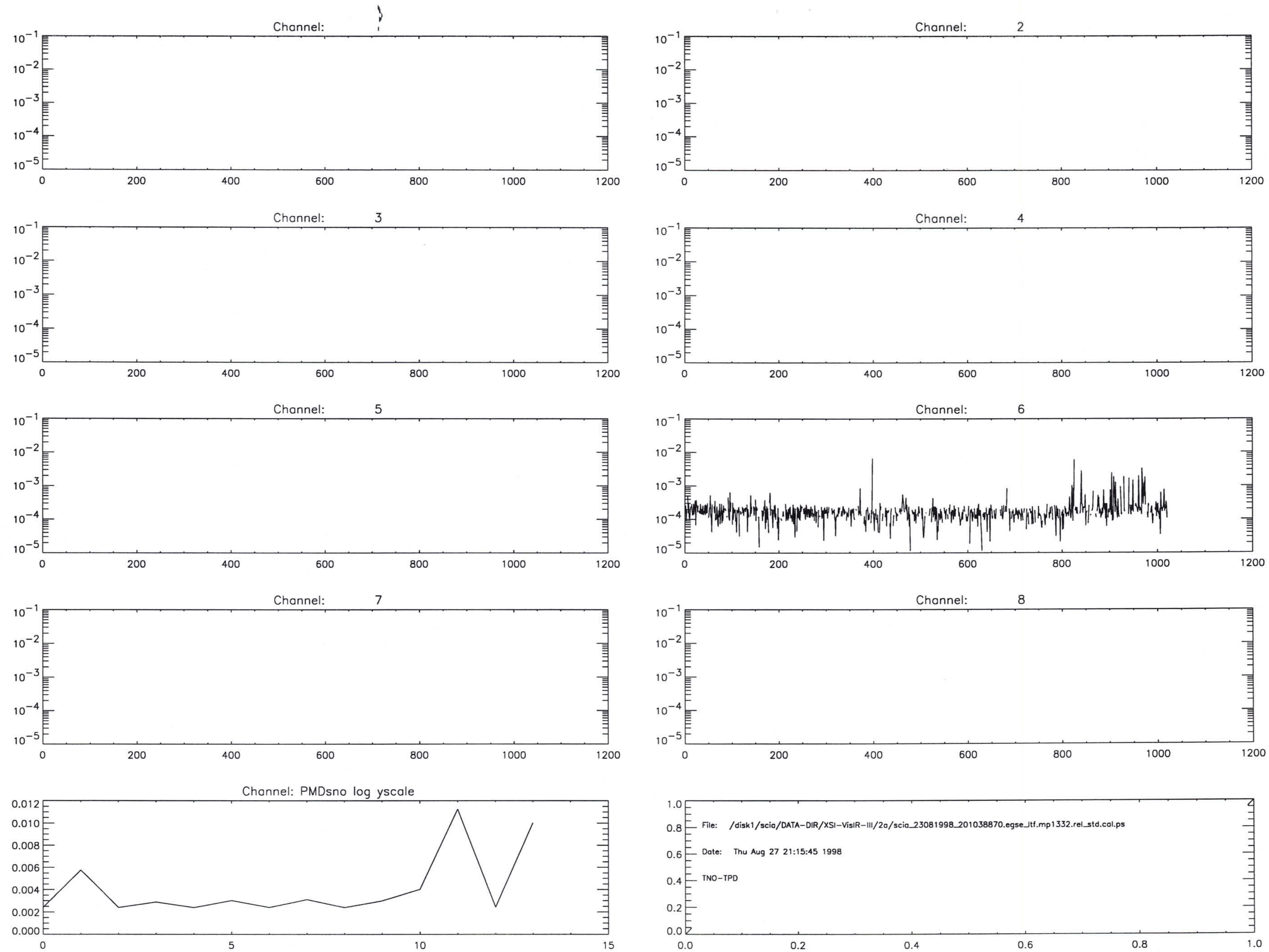
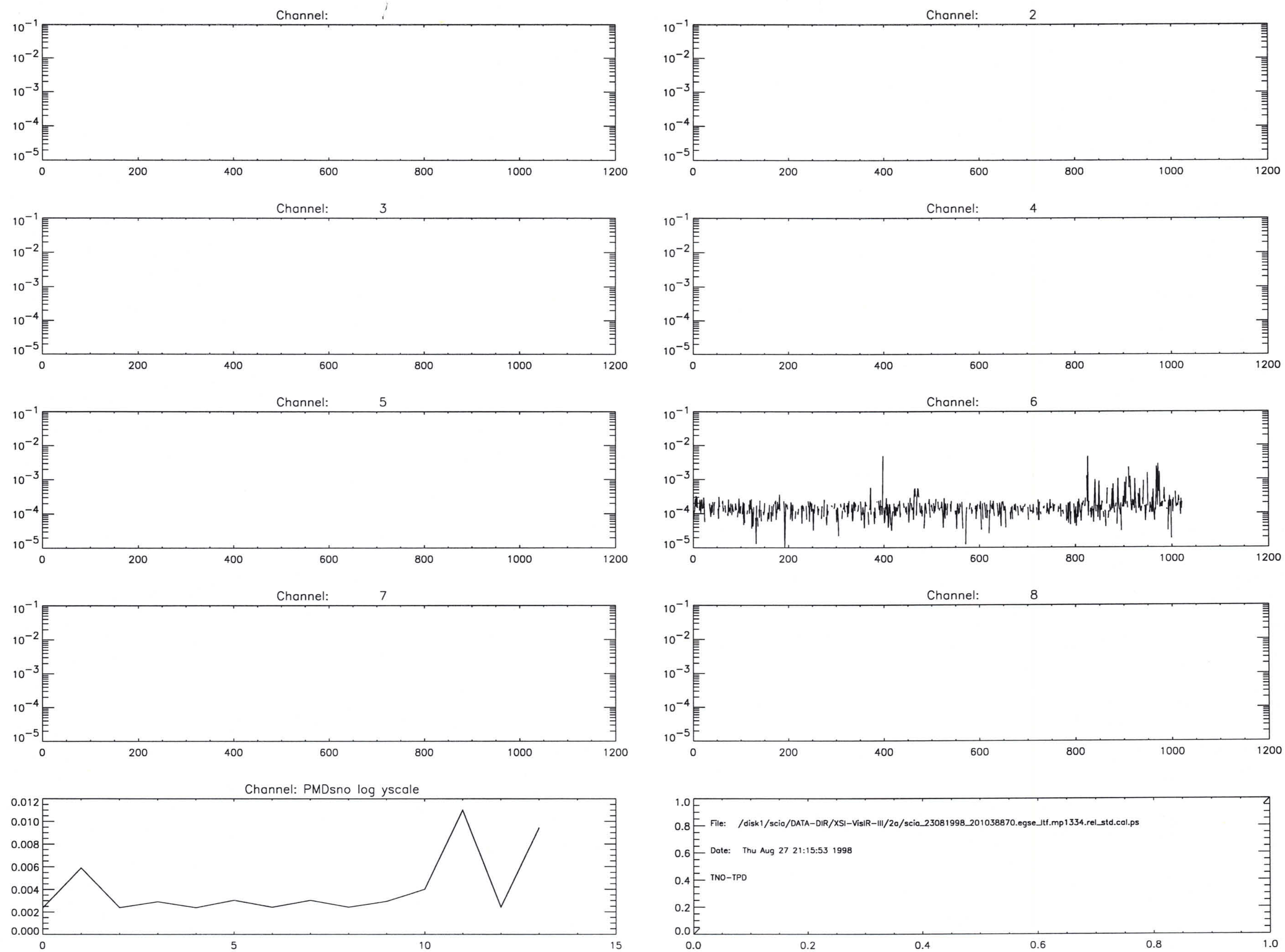
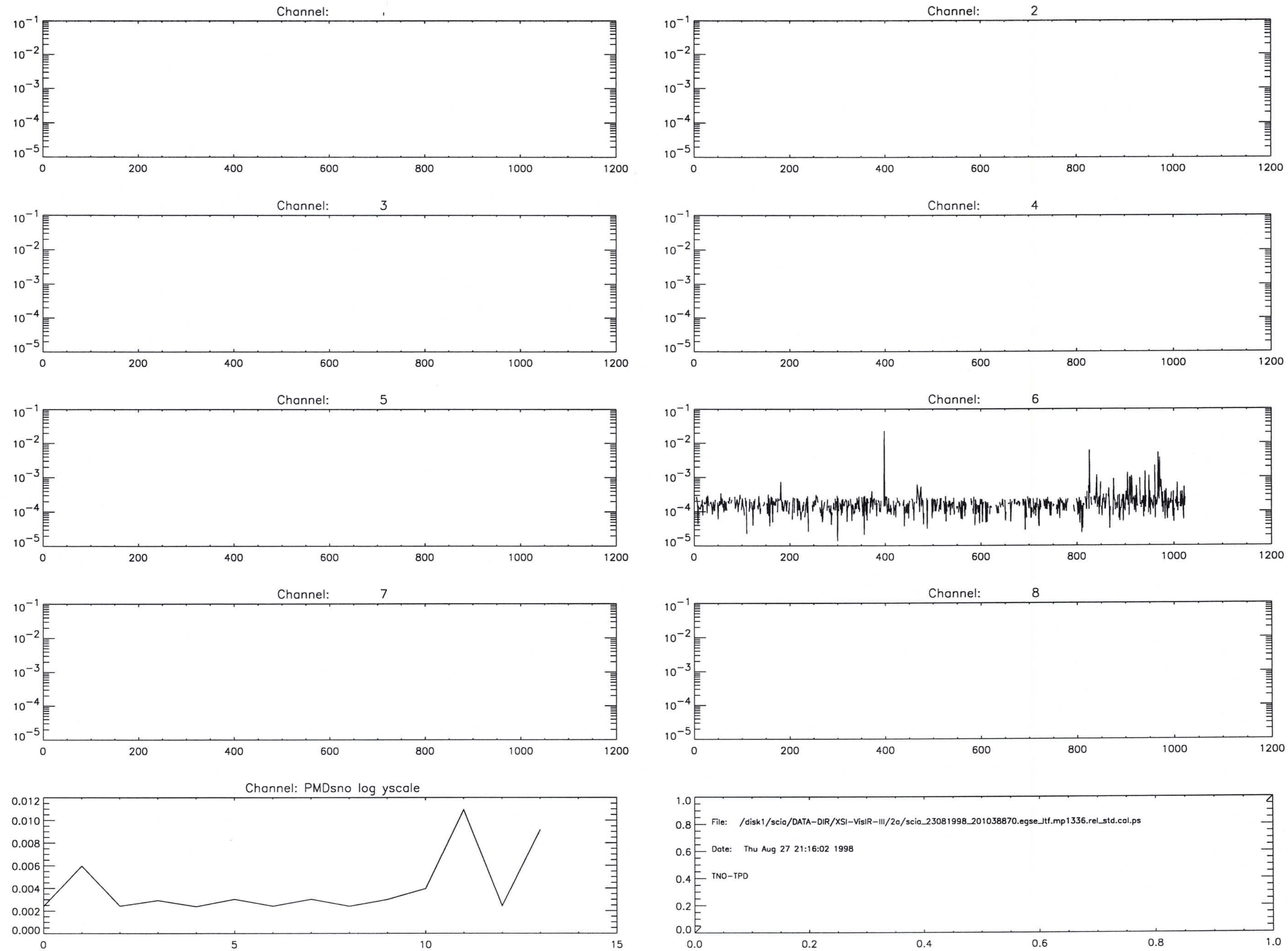
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/XSI-VisIR-III/2a/scia_23081998_201038870.egse_ltf.mp1328.rel_std.cal.ps
Date: Thu Aug 27 21:15:27 1998
TNO-TPD


Channel:
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/XSI-VisIR-III/2a/scia_23081998_201038870.egse_ltf.mp1330.rel_std.col.ps
Date: Thu Aug 27 21:15:36 1998
TNO-TPD

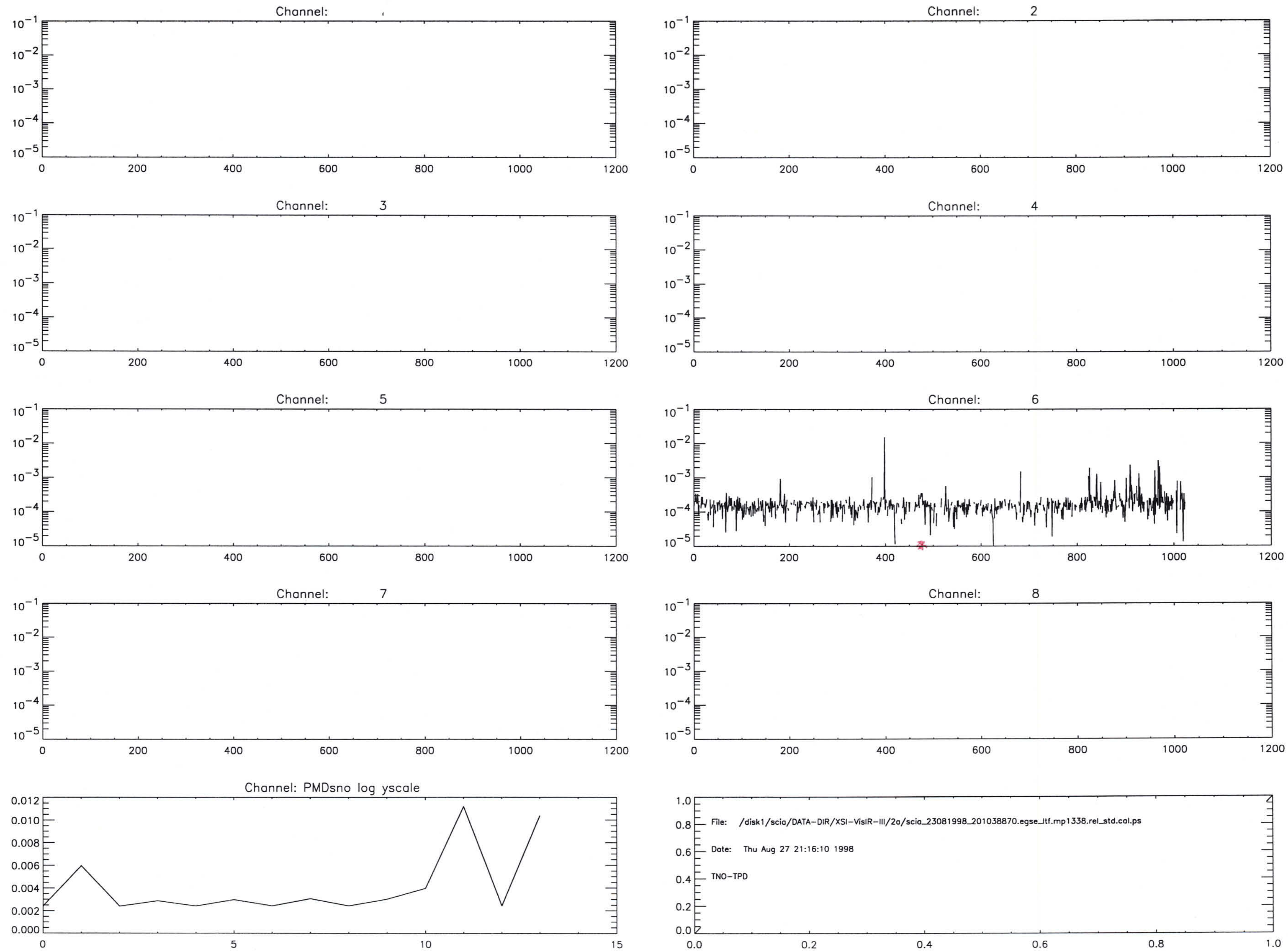

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/XSI-VisIR-III/2a/scia_23081998_201038870.egse_ltf.mp1332.rel_std.cal.ps
Date: Thu Aug 27 21:15:45 1998
TNO-TPD



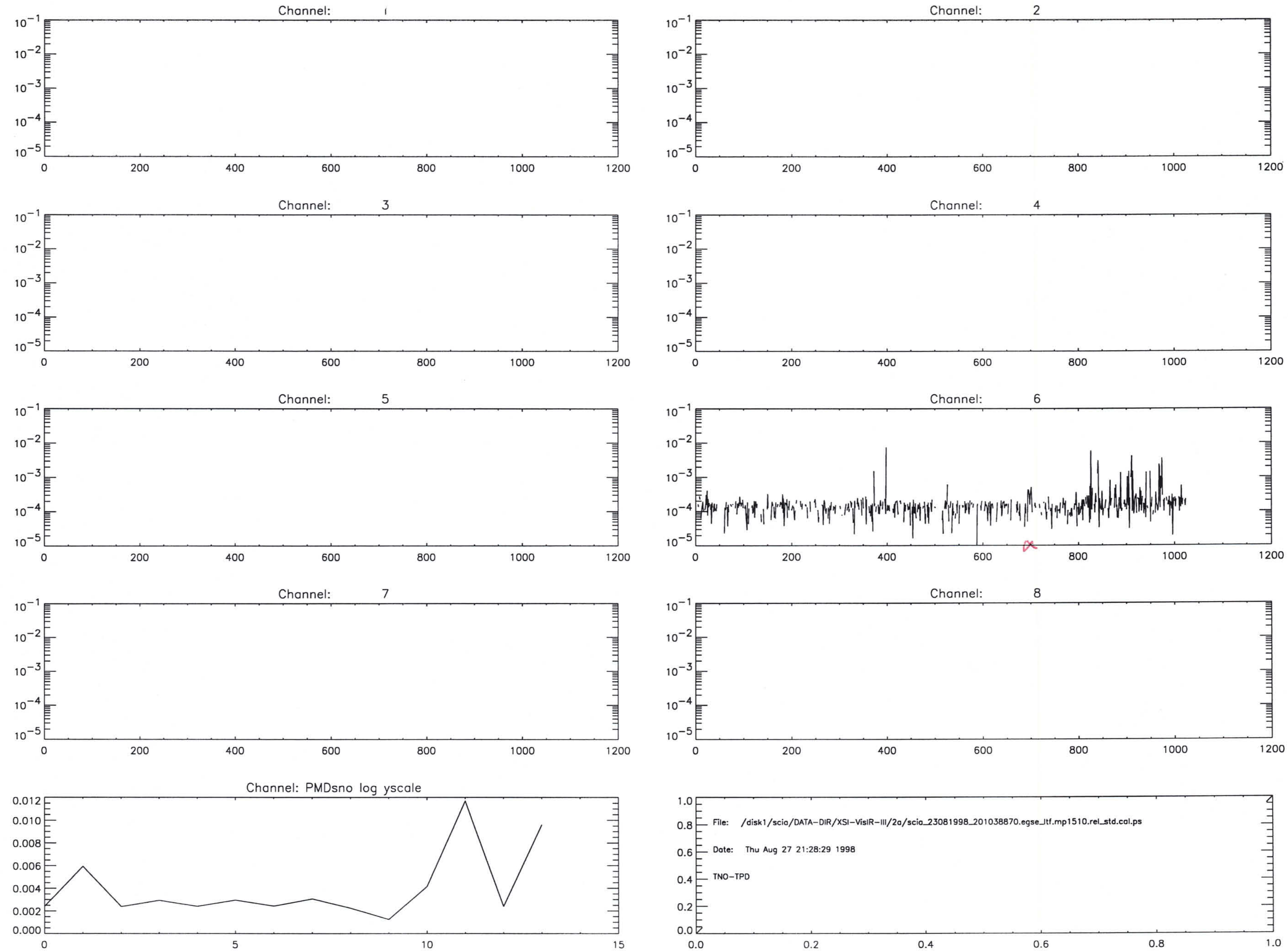
Channel:
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/XSI-VisIR-III/2a/scia_23081998_201038870.egse_ltf.mp1334.rel_std.cal.ps
Date: Thu Aug 27 21:15:53 1998
TNO-TPD

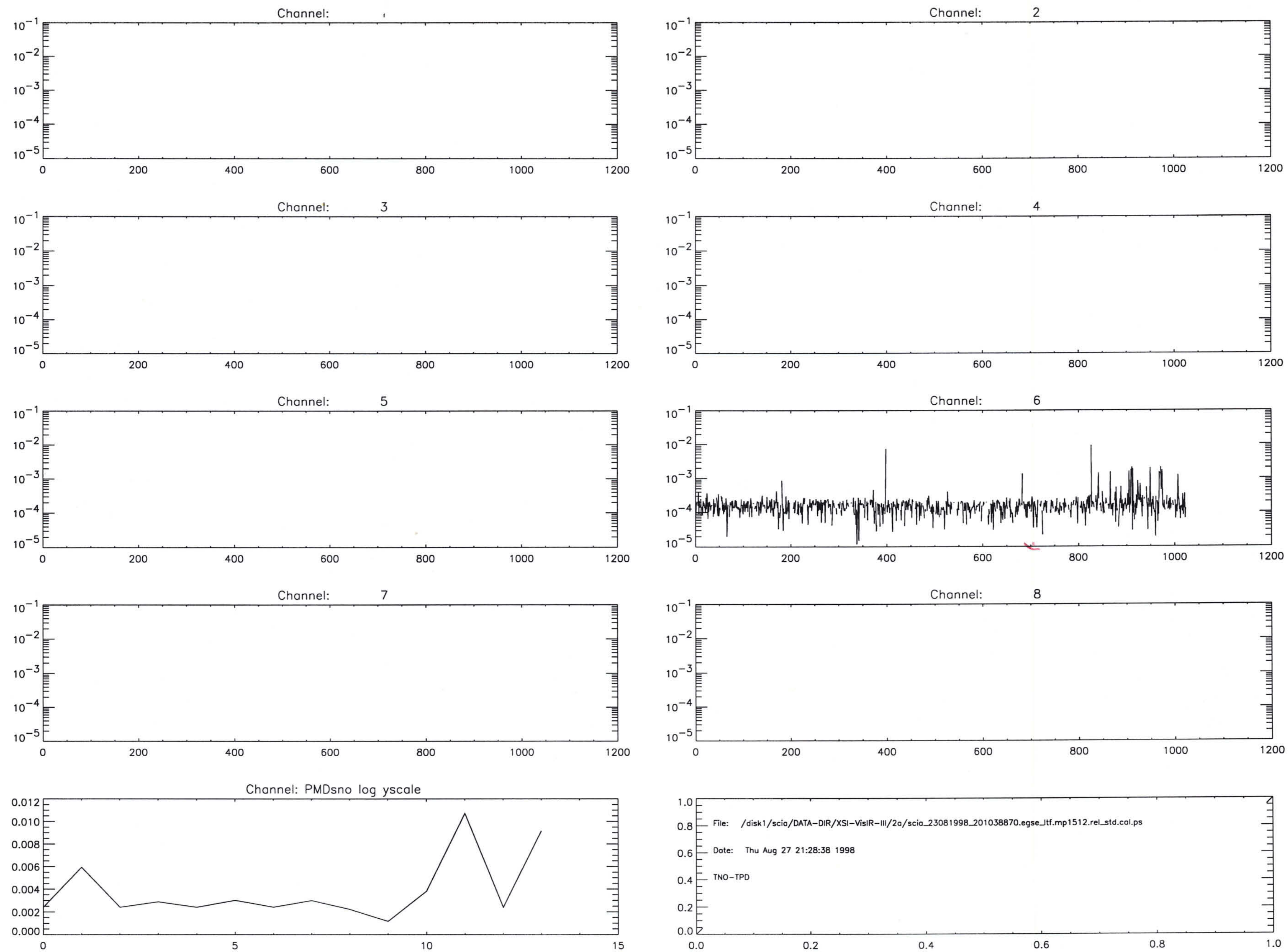


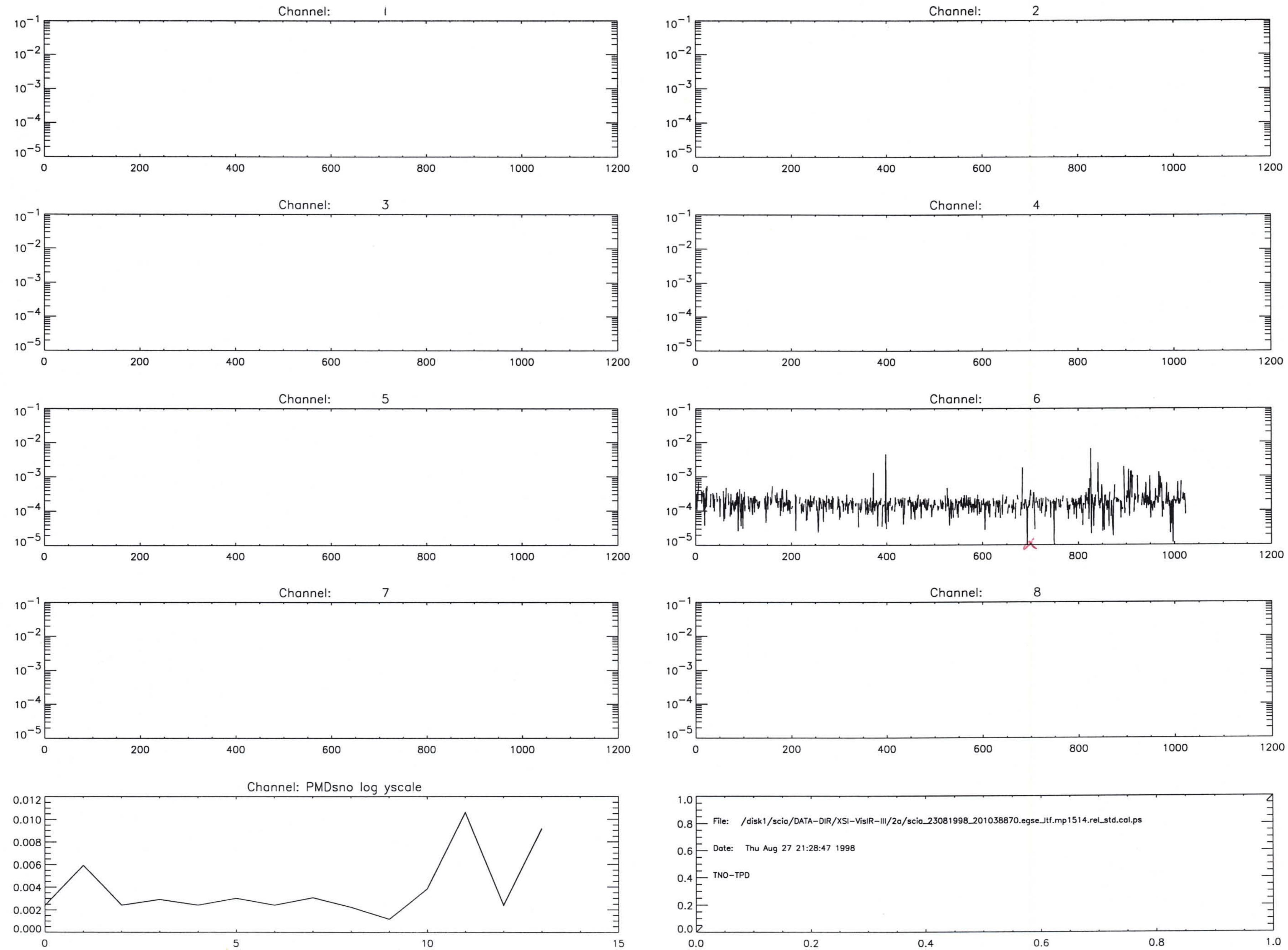
Channel:
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/XSI-VisIR-III/2a/scia_23081998_201038870.egse_ltf.mp1336.rel_std.cal.ps
Date: Thu Aug 27 21:16:02 1998
TNO-TPD



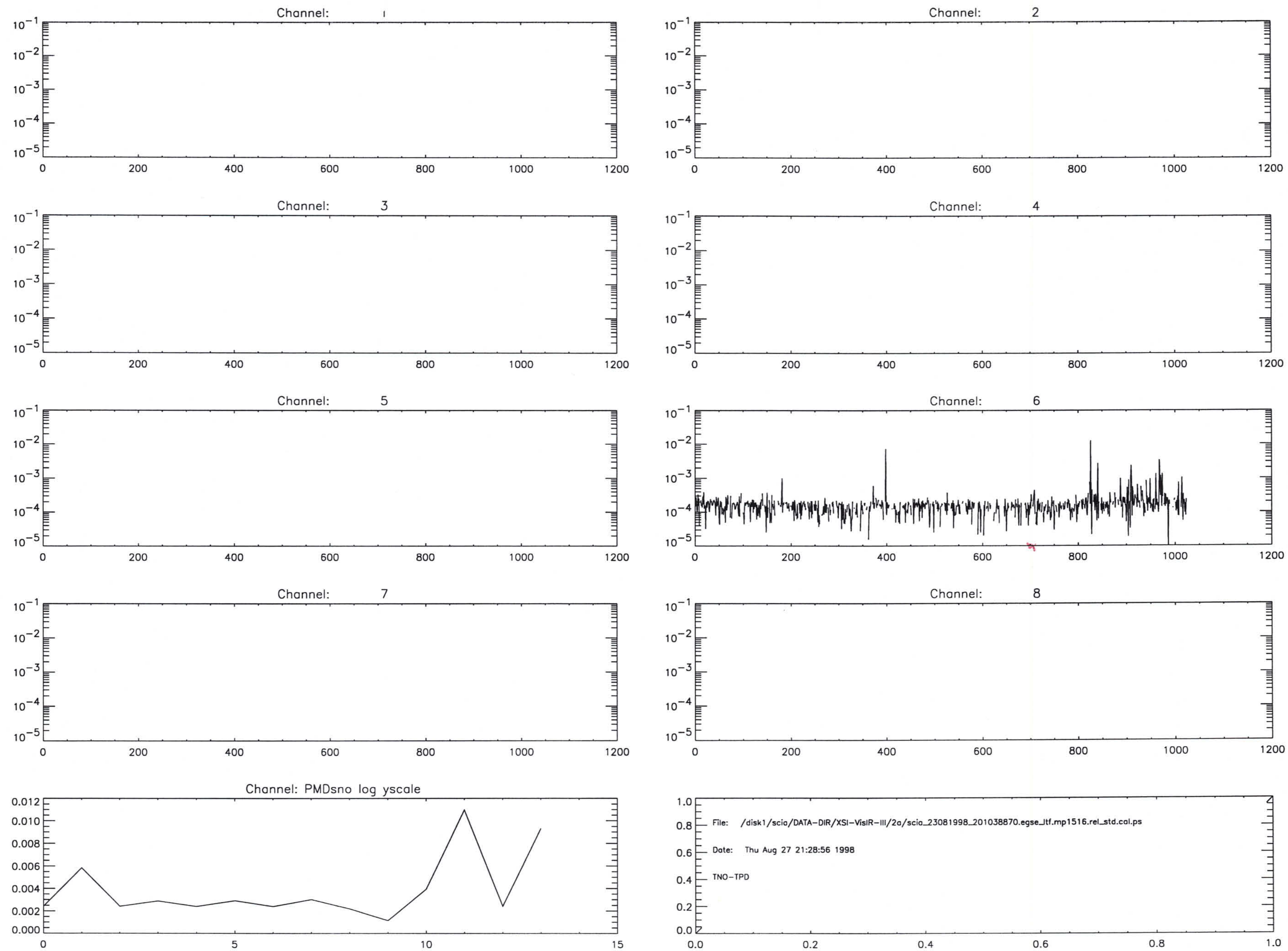
Channel:
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/XSI-VisIR-III/2a/scia_23081998_201038870.egse_ltf.mp1338.rel_std.cal.ps
Date: Thu Aug 27 21:16:10 1998
TNO-TPD


Channel:
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/XSI-VisIR-III/2a/scia_23081998_201038870.egse_ltf.mp1510.rel_std.col.ps
Date: Thu Aug 27 21:28:29 1998
TNO-TPD

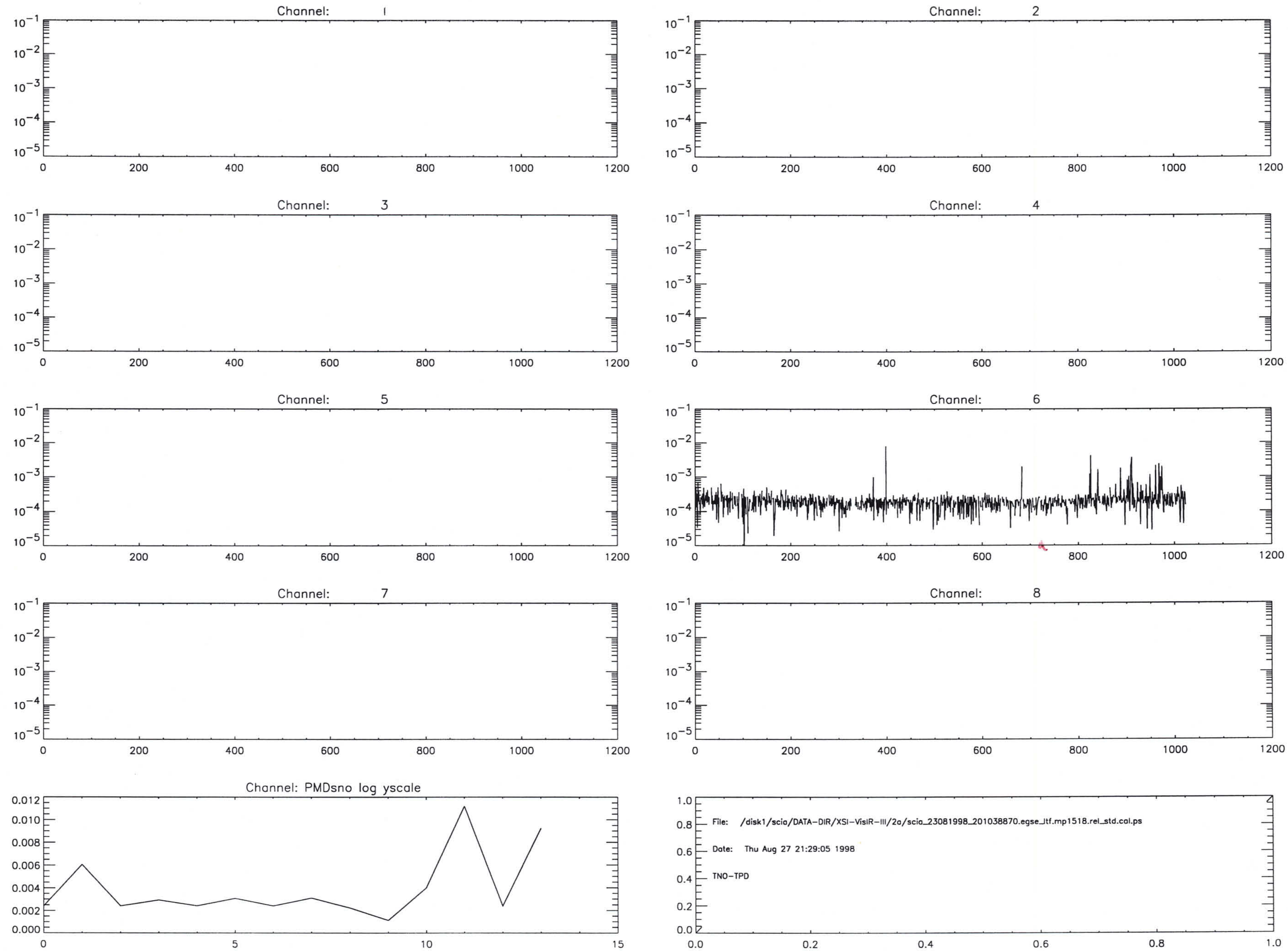

Channel:
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/XSI-VisIR-III/2a/scia_23081998_201038870.egse_ltf.mp1512.rel_std.cal.ps
Date: Thu Aug 27 21:28:38 1998
TNO-TPD

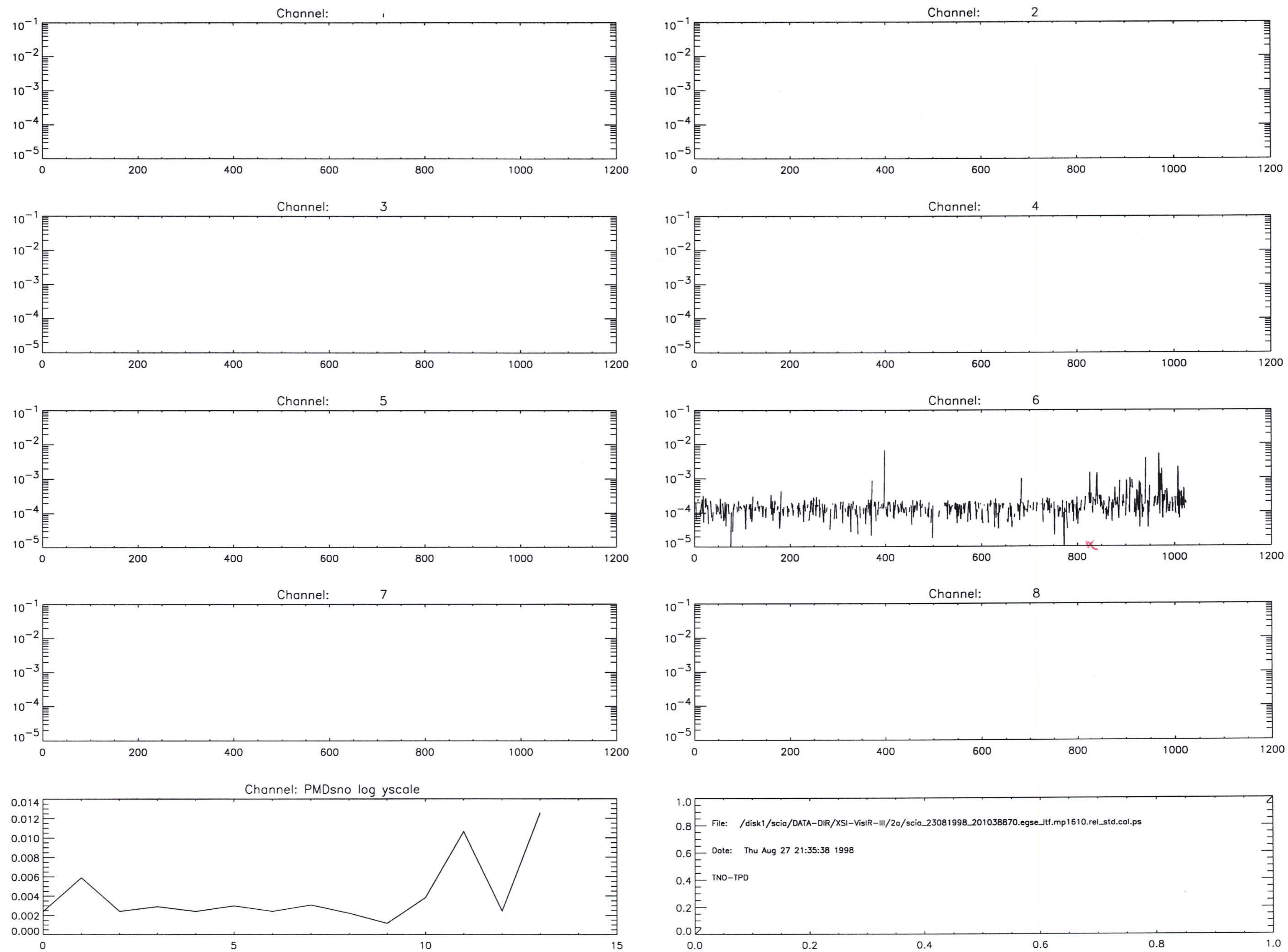


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/XSI-VisIR-III/2a/scia_23081998_201038870.egse_ltf.mp1514.rel_std.cal.ps
Date: Thu Aug 27 21:28:47 1998
TNO-TPD

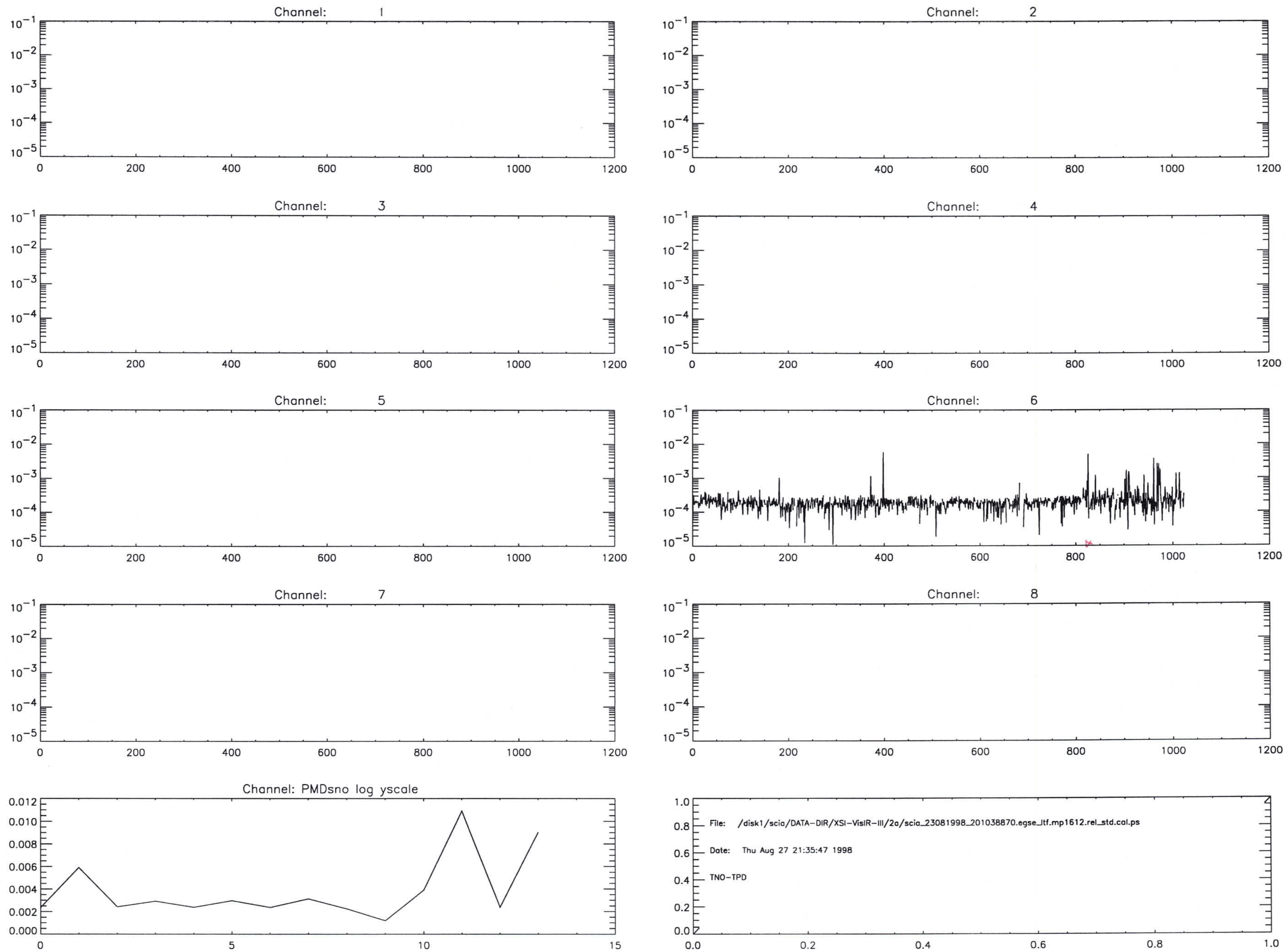


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scio/DATA-DIR/XSI-VisIR-III/2a/scia_23081998_201038870.egse_ltf.mp1516.rel_std.cal.ps
Date: Thu Aug 27 21:28:56 1998
TNO-TPD

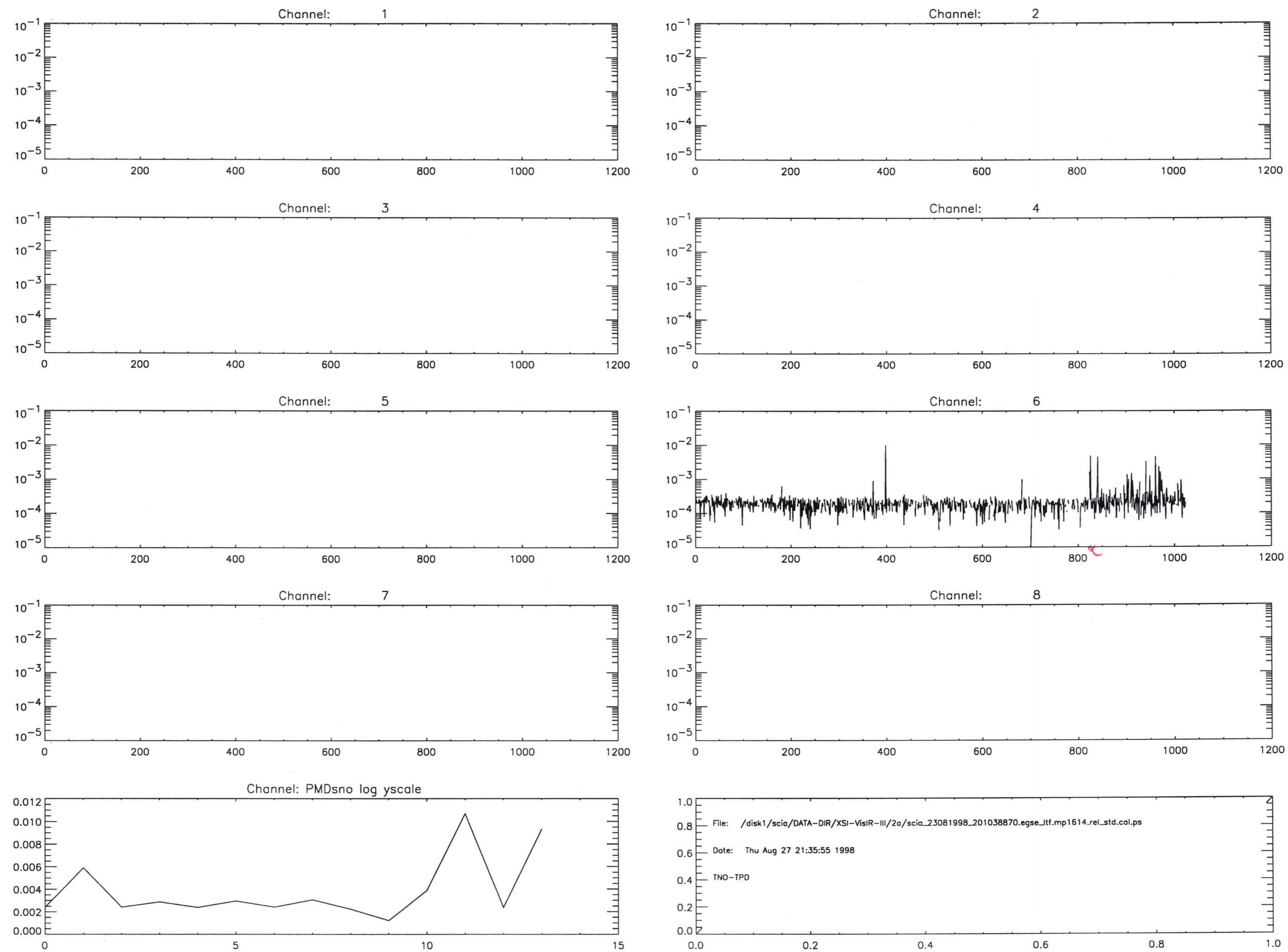

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/XSI-VisIR-III/2a/scia_23081998_201038870.egse_ltf.mp1518.rel_std.col.ps
Date: Thu Aug 27 21:29:05 1998
TNO-TPD



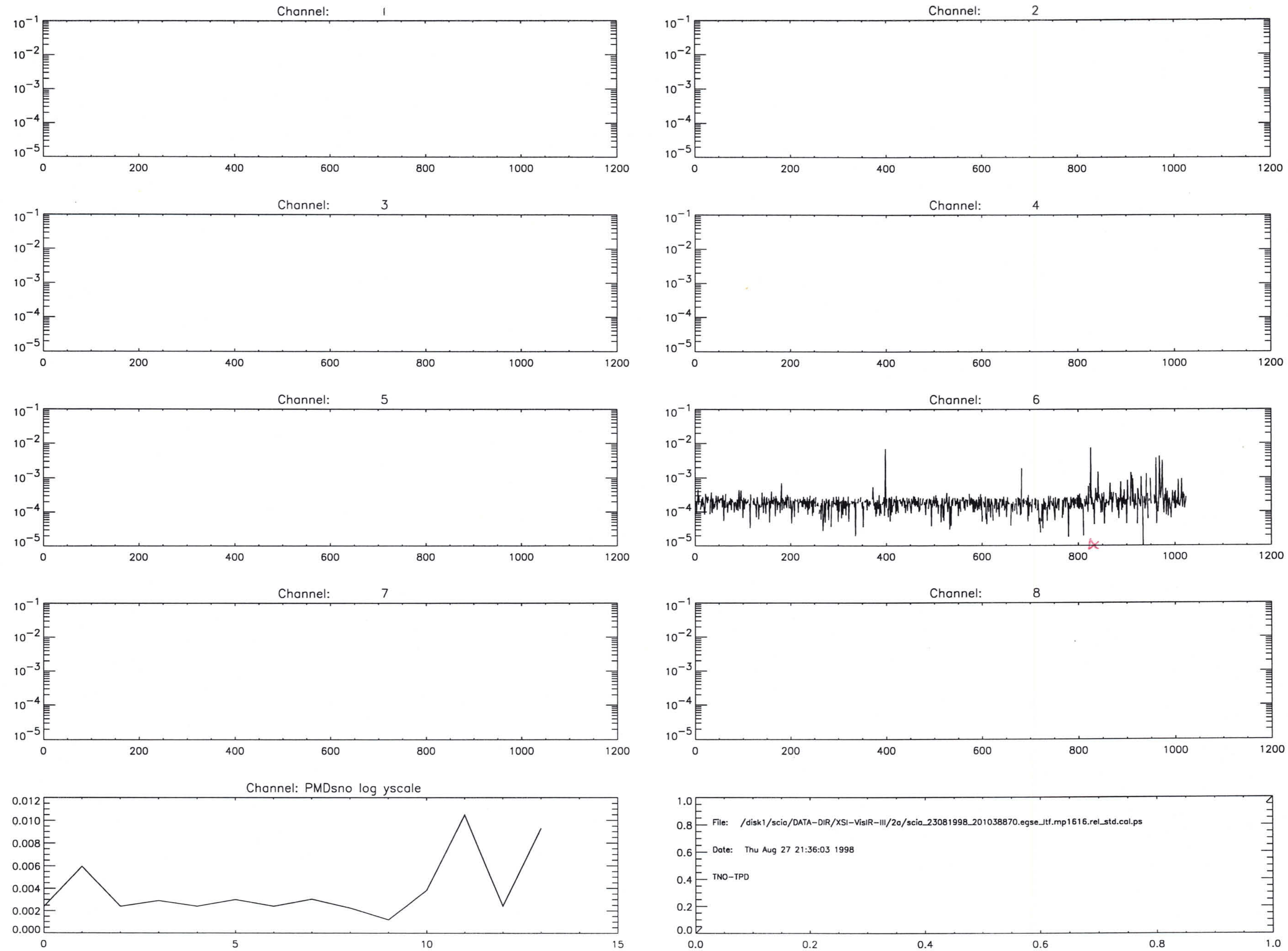
Channel:
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/XSI-VisIR-III/2a/scia_23081998_201038870.egse_ltf.mp1610.rel_std.cal.ps
Date: Thu Aug 27 21:35:38 1998
TNO-TPD

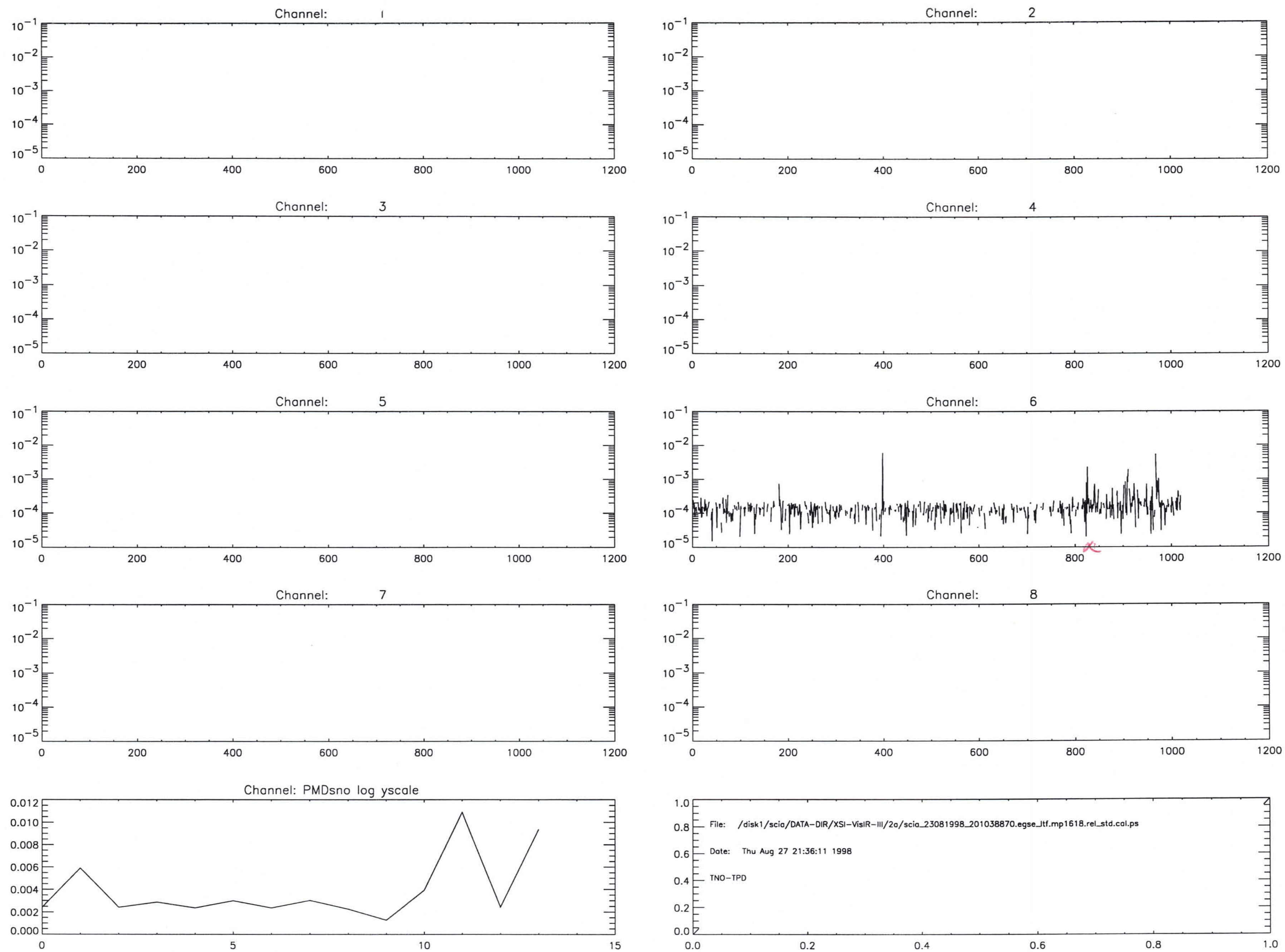


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
200
400
600
800
1000
1200
Channel: PMDsno log yscale
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
5
10
15
1.0
0.8
0.6
0.4
0.2
0.0
File: /disk1/scia/DATA-DIR/XSI-VisIR-III/2a/scia_23081998_201038870.egse_ltf.mp1612.rel_std.cal.ps
Date: Thu Aug 27 21:35:47 1998
TNO-TPD



Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/XSI-VisIR-III/2a/scia_23081998_201038870.egse_ltf.mp1614.rel_std.cal.ps
Date: Thu Aug 27 21:35:55 1998
TNO-TPD

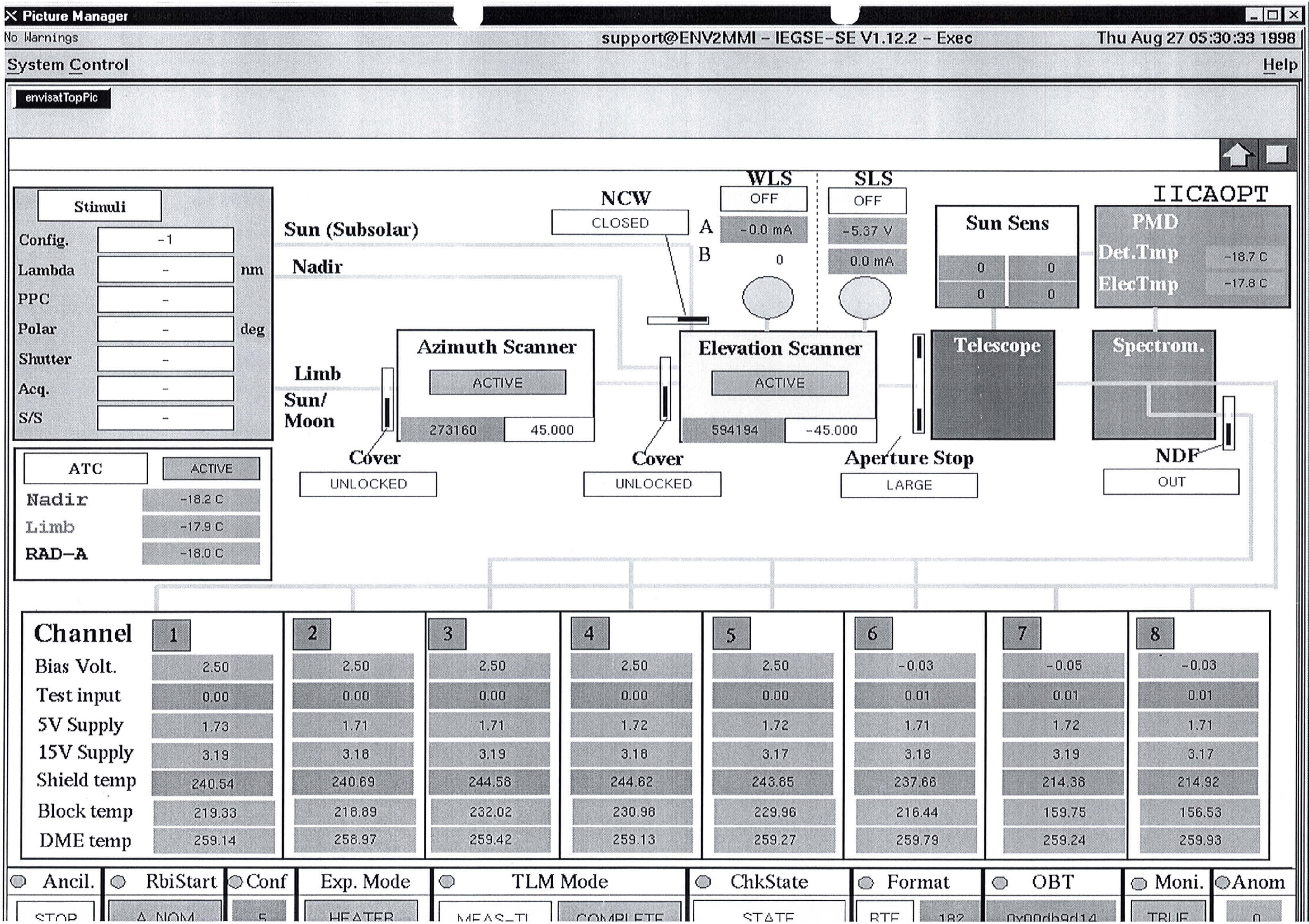

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/XSI-VisIR-III/2a/scia_23081998_201038870.egse_ltf.mp1616.rel_std.cal.ps
Date: Thu Aug 27 21:36:03 1998
TNO-TPD



Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/XSI-VisIR-III/2a/scia_23081998_201038870.egse_ltf.mp1618.rel_std.cal.ps
Date: Thu Aug 27 21:36:11 1998
TNO-TPD

LOG SHEET SCHIAMACHY CALIBRATION

Date/Time	Description of action	Measurement directory
27-8-1998	ETA-IR ~~a~~ crashedd and re done after wls-sls internal	


Picture Manager
No Warnings
support@ENV2MMI – IEGSE-SE V1.12.2 – Exec
Thu Aug 27 05:30:33 1998
System Control
Help
envisatTopPic
IICAOPT
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 -5.37 V 0.0 mA
Sun Sens 0 0 0 0
PMD
Det.Tmp -18.7 C
ElecTmp -17.8 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 240.54 240.69 244.58 244.62 243.85 237.66 214.38 214.92
Block temp 219.33 218.89 232.02 230.98 229.96 216.44 159.75 156.53
DME temp 259.14 258.97 259.42 259.13 259.27 259.79 259.24 259.93
Ancil.
RbiStart
Conf
Exp. Mode
TLM Mode
ChkState
Format
OBT
Moni.
Anom

Formal Run of Measurement

(Measurement ID) ETA-IR

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	13									
Repetitions	4									

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

Channel	PET [s] or Hf	Co-Adding	PET [s] or Hf	Co-Adding	PET [s] or Hf	Co-Adding	PET [s] or Hf	Co-Adding
1a	64	1						
1b	64	1						
2b	16	4						
2a	16	4						
3	0.5	8						
4	0.25	16						
5	0.25	16						
6	0.03125	64						
7	0.0625	64						
8	0.25	16						
State ID								

ETA-IR at high temperatures

intended date ~~18~~ 27-8-1998

(CRASHED)

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	2	15	171.6	close	1	240	240	0	2	041	12
2.1	2	15	171.6	open	1	240	240	0	[illegible]	wsd#	20
2.2	2	15	85.4	open	1	240	240	0	2	wpd#	20
3.1	2	5	171.6	open	1	240	240	0	2	wsb#	20
3.2	2	5	85.4	open	1	240	240	0	2	wpb#	20
4	2	5	85.4	close	1	240	240	0	2	042	8

Measurement Data Description

Test Purpose	UIB 8
Remark	repeated msm
Data Directory	0239_10.17.46_ETA-IR

Signatures

	Date	Signature
Issued		
Performed	27.8.98	[signature]

Formal Run of Measurement

(Measurement ID) ETA-IR

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	13									
Repetitions	4									

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	16	4						
2a	16	4						
3	0.5	8						
4	0.25	16						
5	0.25	16						
6	0.03125	64						
7	0.0625	64						
8	0.25	16						
State ID								

ETA-IR at high temperatures

intended date 18-8-1998

<crashed>

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	2	15	171.6	close	1	240	240	0	2	047	12
2.1	2	15	171.6	open	1	240	240	0	[illegible]	wsd#	20
2.2	2	15	85.4	open	1	240	240	0	2	wpd#	20
3.1	2	5	171.6	open	1	240	240	0	2	wsb#	20
3.2	2	5	85.4	open	1	240	240	0	2	wpb#	20
4	2	5	85.4	close	1	240	240	0	2	042	8

Measurement Data Description

Test Purpose	UID 8
Remark	repeated msm
Data Directory	0238_14.24.00_ETA_IR

~~10.41.39~~

Signatures

	Date	Signature
Issued	26-8	TOS
Performed	21.8.	A. A.

Formal Run of Measurement

(Measurement ID) WLS-INT

Request for Actual Status
Request for Modification
Request for Run [X]

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

Scanner Positions

Step 14-4

Azimuth	145.00	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	44, 45							

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	-1	-	-	-	-	-	-	0	1	QU	

Measurement Data Description

Test Purpose	UID 25
Remark	
Data Directory	0239_09.45.02_WLS_INT

Signatures

	Date	Signature
Issued	27-8-1998	[signature]
Performed	27.8.98	[signature]

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Marion 27-08	
	What's the name of the (main) data input files that you want to store on the SUN named `scia6`?	____________	(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		In DATA-DIR window
	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.	____________	In DATA window
	Set in binary: `binary` `mget *` (and return `y` to every file). `bye`		Approx. 140 kB

Sign:	Name	Marion
	Date and time	27-08 12:40 UTC
	Signature	M.Stopp

STEP	ACTION	RESULT	MARKER
Intro	Your name:	Marion	
	Date:	27-08	
	What's the name of the (main) data input files generated by the EGSE? (*.dat)	scia_27081998_094806408.dat	(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?	11	(B)
	New directory: `mkdir <B+1>` `ls -l` What's now the highest number in directory?	12	(C)
	<C> should be <B> + 1	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.	27-08-98	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_27081998_094806400.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: 145,998 kb — should be approx 150Kb

White light file:
ls -l *.~~w~~u*.avg.cal
q

size: 145,998 kb — 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
	Size of file *.du*.cal.ppg.cal	146 kb	should be approx 150Kb
	Size of file *.du*.cal.ppg.cal.log	363	
	Size of file *.du*.cal.ppg.~~cal~~.ps	146 kb	
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	______________	

Sign:	Name	Marion	
	Date and time	27 08 13:00	

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Marion 27-08	
	What's the name of the (main) data input files generated by the EGSE? (*.dat)	zie PPG	(A)
	Setup a three-window configuration on your SUN.		See course descr.
Cnstr directory	cd ~/DATA-DIR/WLS ; ls -l highest number in directory?	11	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:	12 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.		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 ______________________ (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

In DATA-DIR window

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

size: ______________________ should be approx 150Kb

White light file:
`ls -l *wu*.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, 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

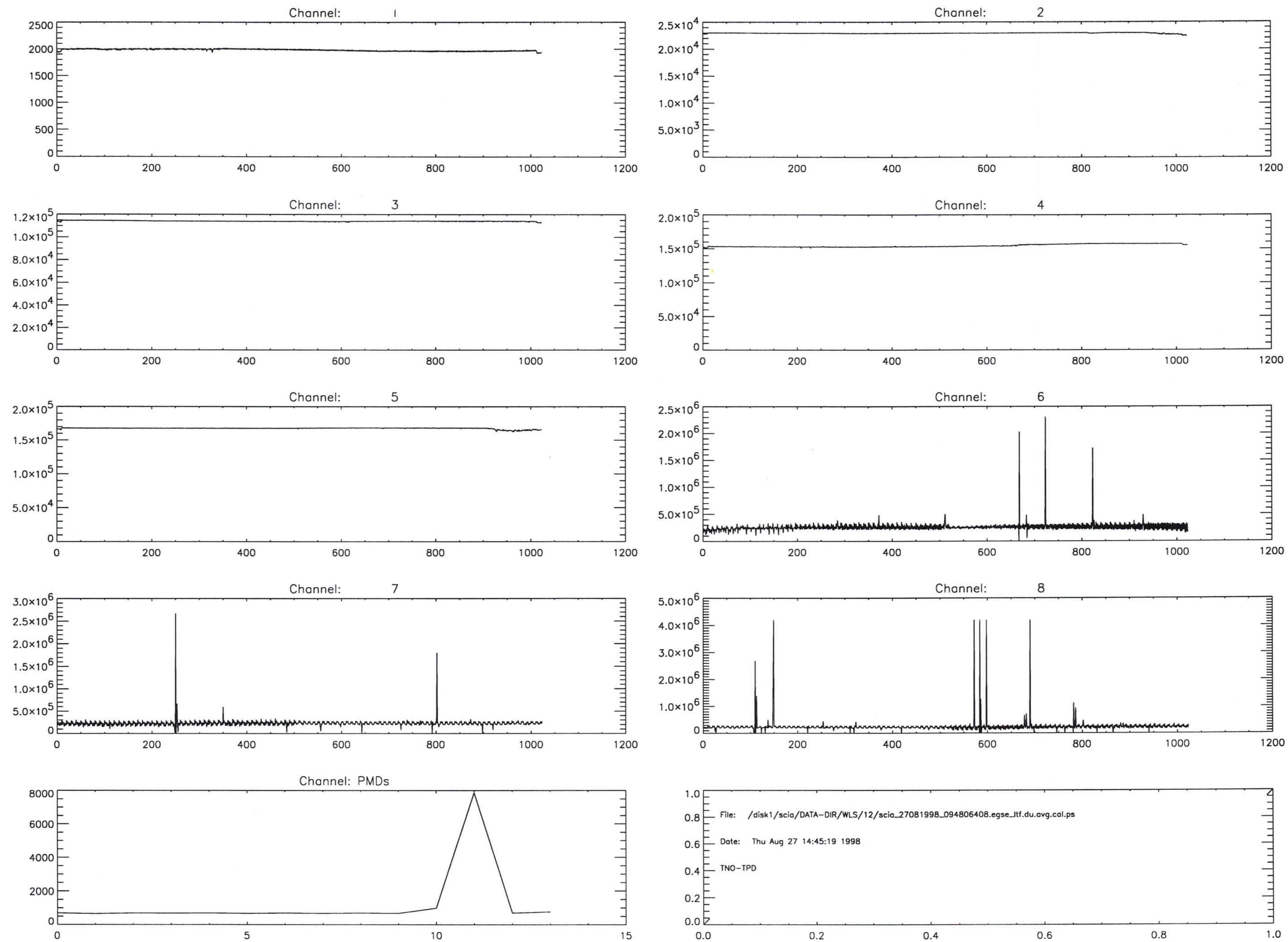
	Contents of *rel_std*.ps files should be smaller than 0.01 (pixel 300 -- 800) for all channels. If not, value is:	Y / N ________	
	Add postscript images to logbook, done	Y / N	
Print logfiles	lpr -P<printer> *.log Add logfiles to logbook, done	Y / N	

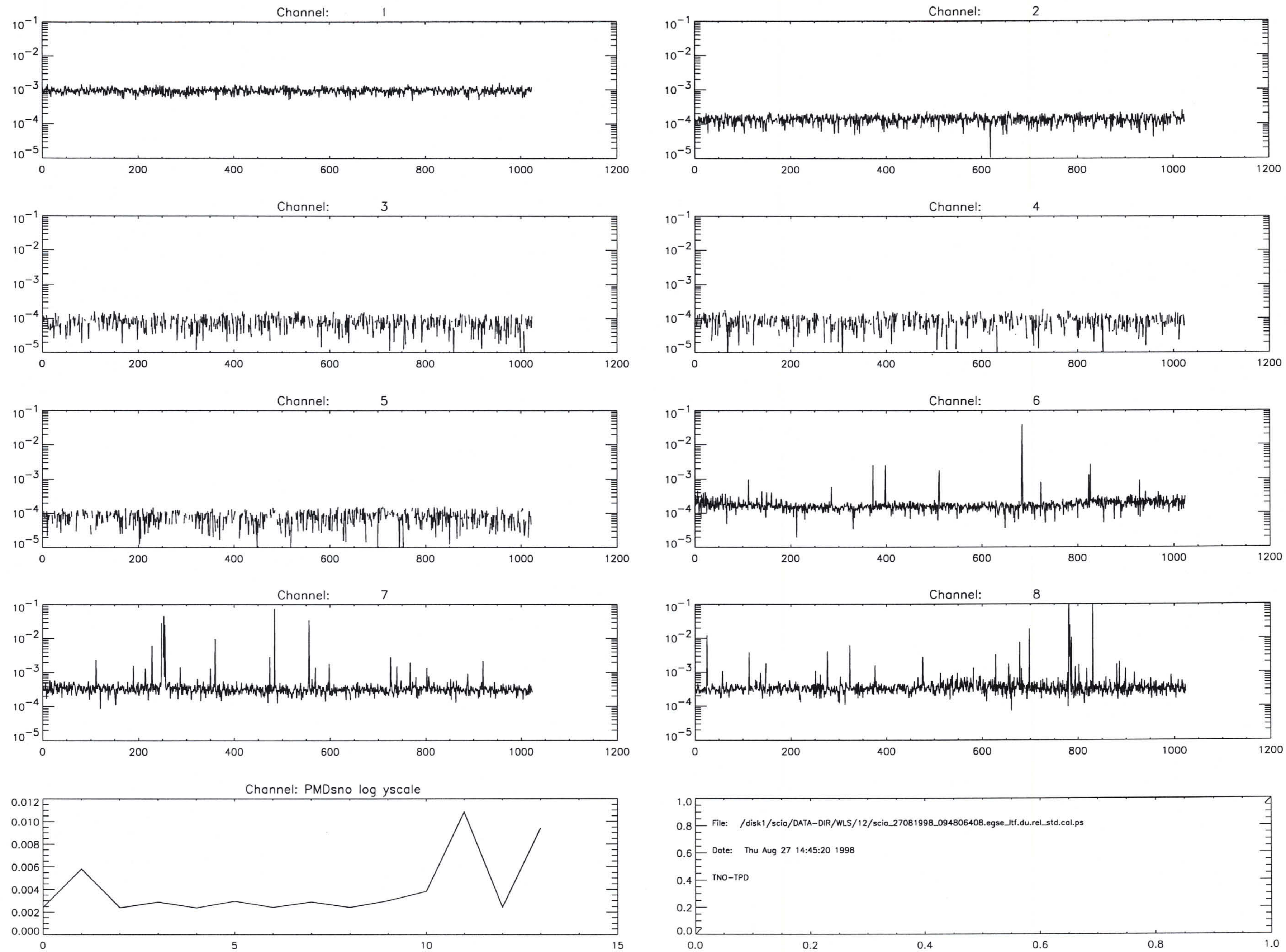
ETALON processing	(*)		
Run ETALON	idl do_etalon		In IDL window
Check ETALON	ls -l <DIR-NAME>/*		In DATA-DIR window
	Size of file *.du*.avg.cal.etalon.cal	146 kb	should be approx 150Kb
Check ETALON visually	lpr -P<printer> *.du*.avg.cal.etalon.~~cal~~.ps Value of ETALON should show only a small variation 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	

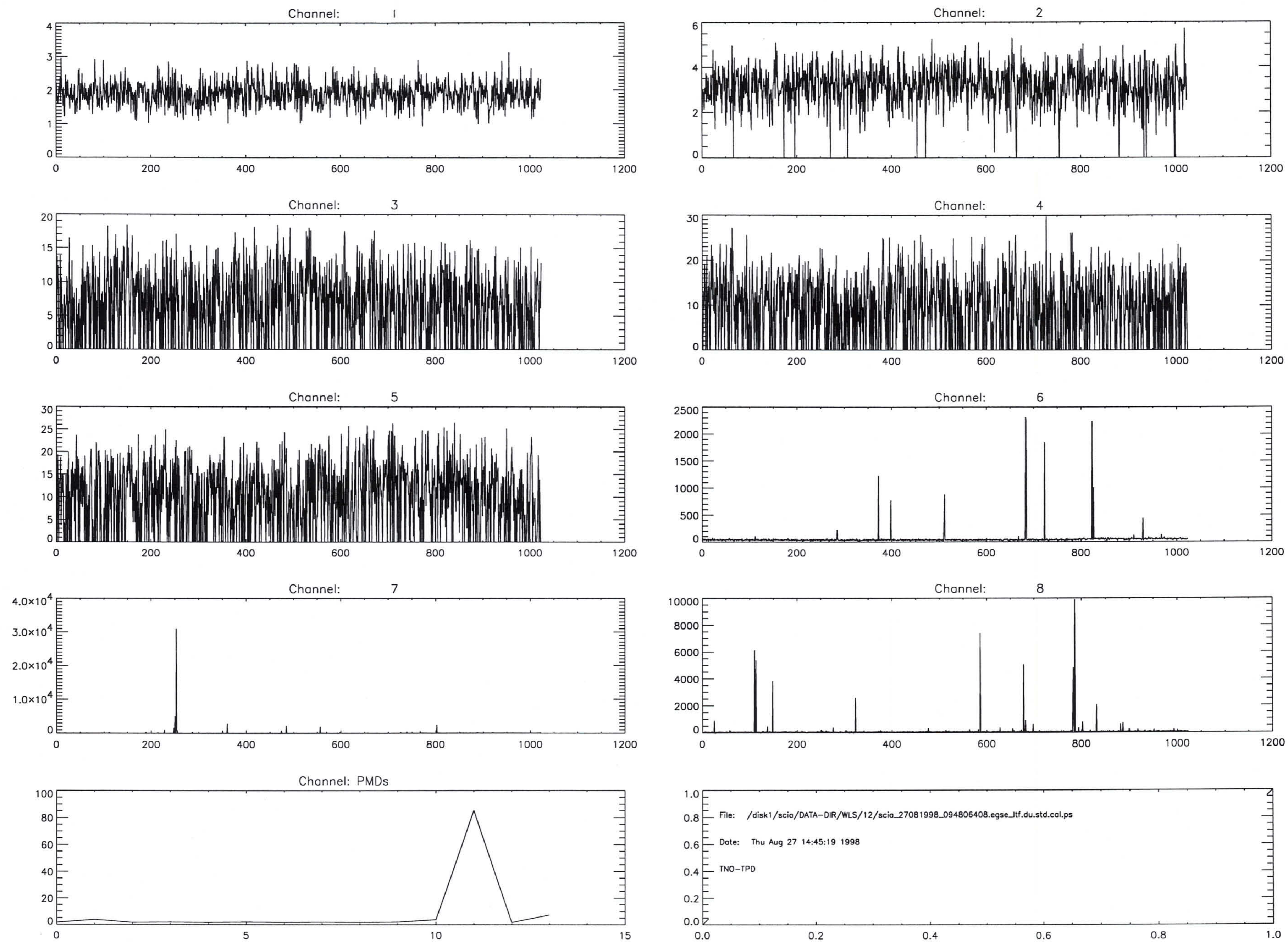
(*) When asked a file containing reference WLS spectrum (START_OF_CAL) select the right subdirectory START_OF_CAL_WARM or START_OF_CAL_COLD. (depending on detector temps.) if using an external lamp use: EXTERN_STARTOFCAL_COLD OR EXTERN_START_OF_CAL_WARM

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	27 08 90 A	See analysis sheet BackUp

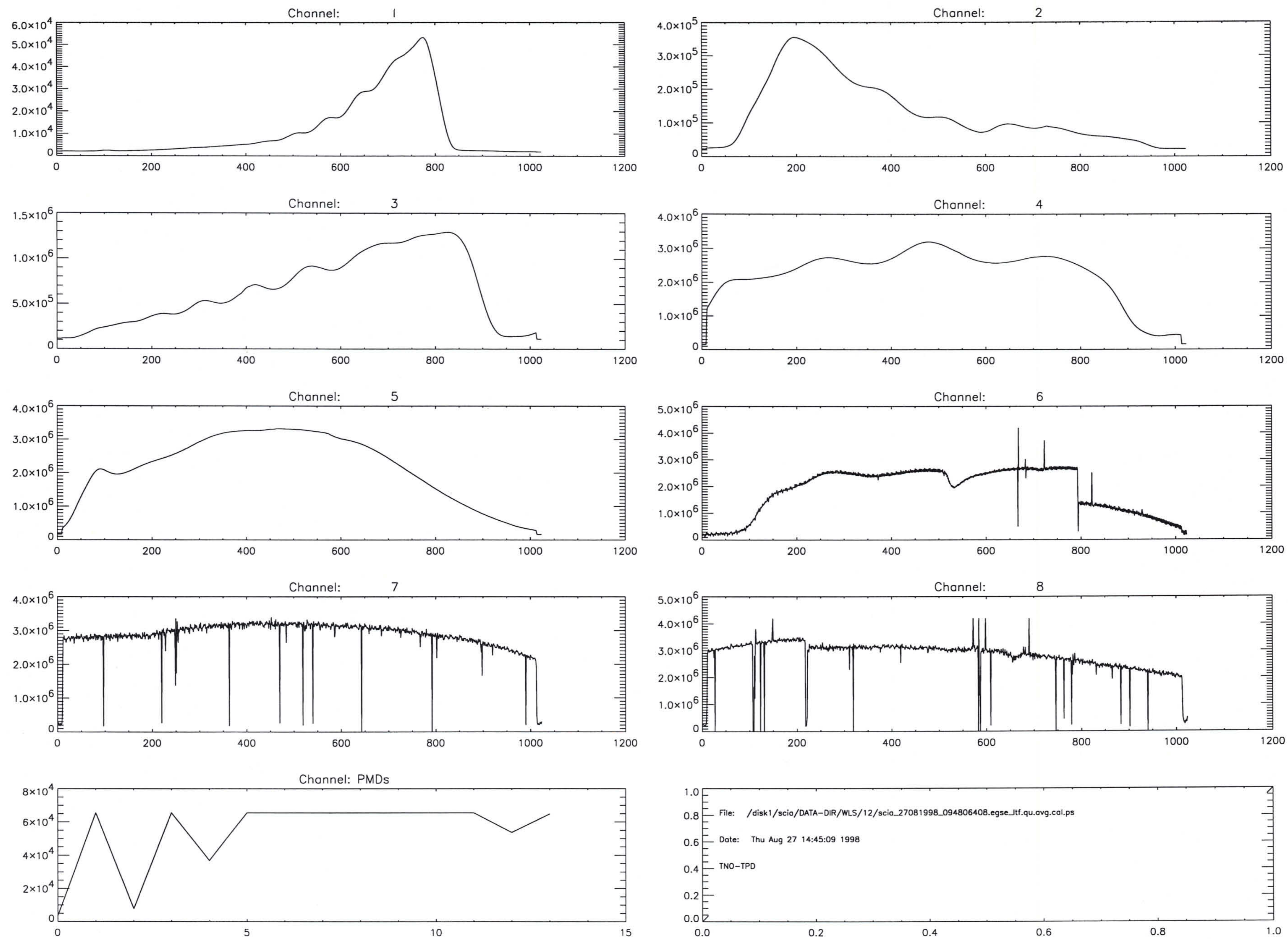
Sign:	Name	Marion.

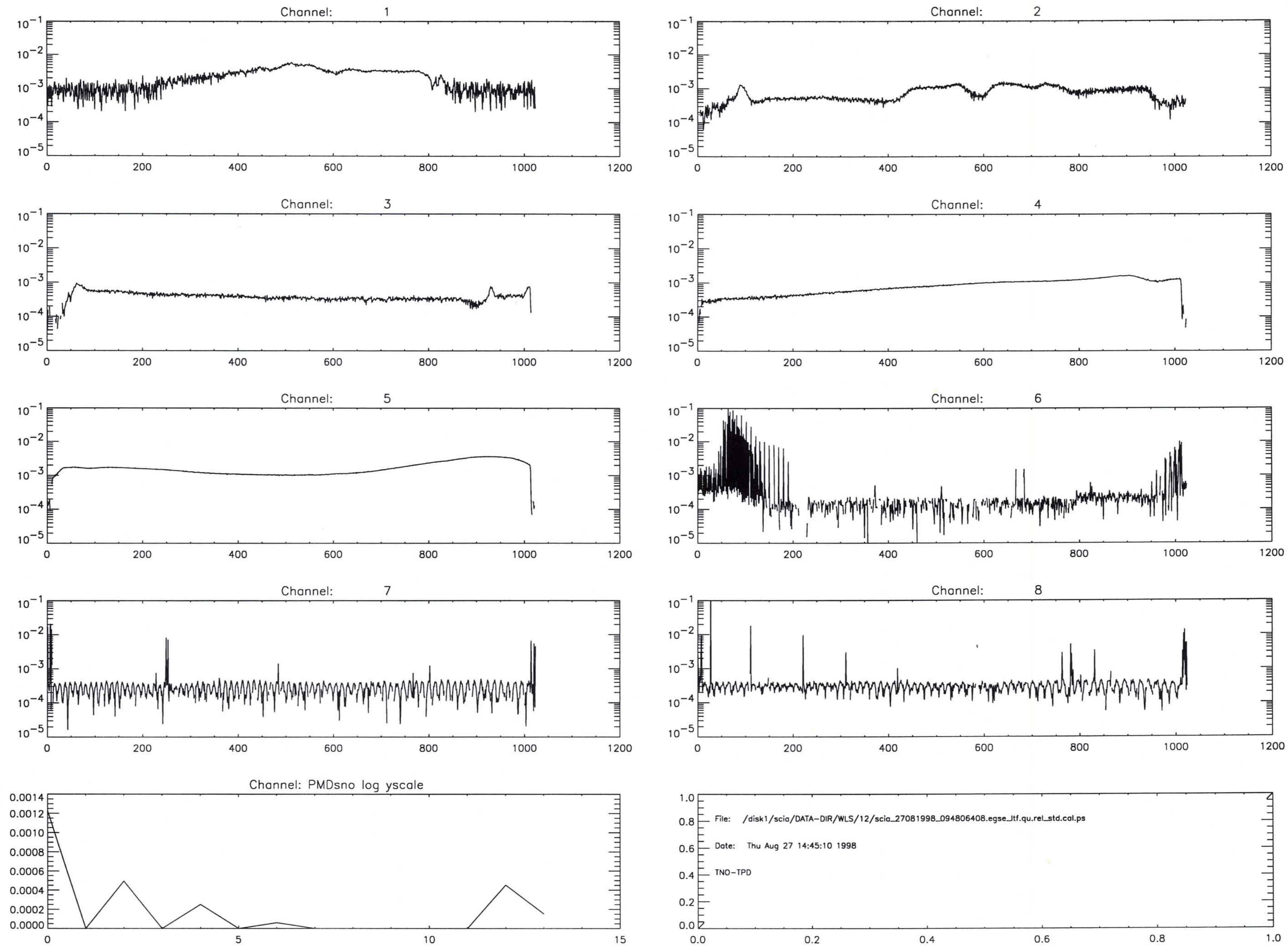

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/WLS/12/scia_27081998_094806408.egse_ltf.du.avg.cal.ps
Date: Thu Aug 27 14:45:19 1998
TNO-TPD

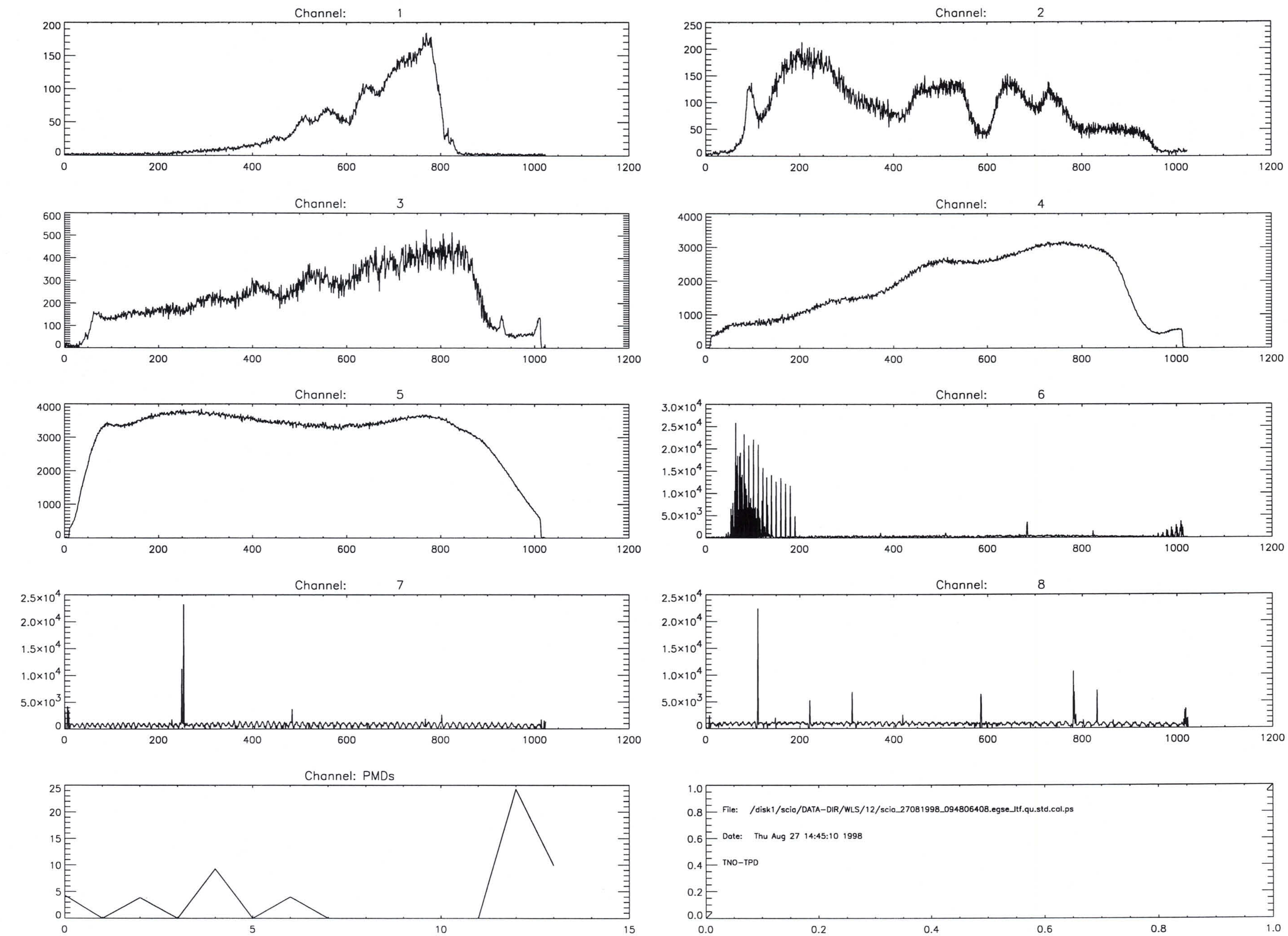

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/WLS/12/scia_27081998_094806408.egse_ltf.du.rel_std.cal.ps
Date: Thu Aug 27 14:45:20 1998
TNO-TPD



Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scio/DATA-DIR/WLS/12/scia_27081998_094806408.egse_ltf.du.std.cal.ps
Date: Thu Aug 27 14:45:19 1998
TNO-TPD

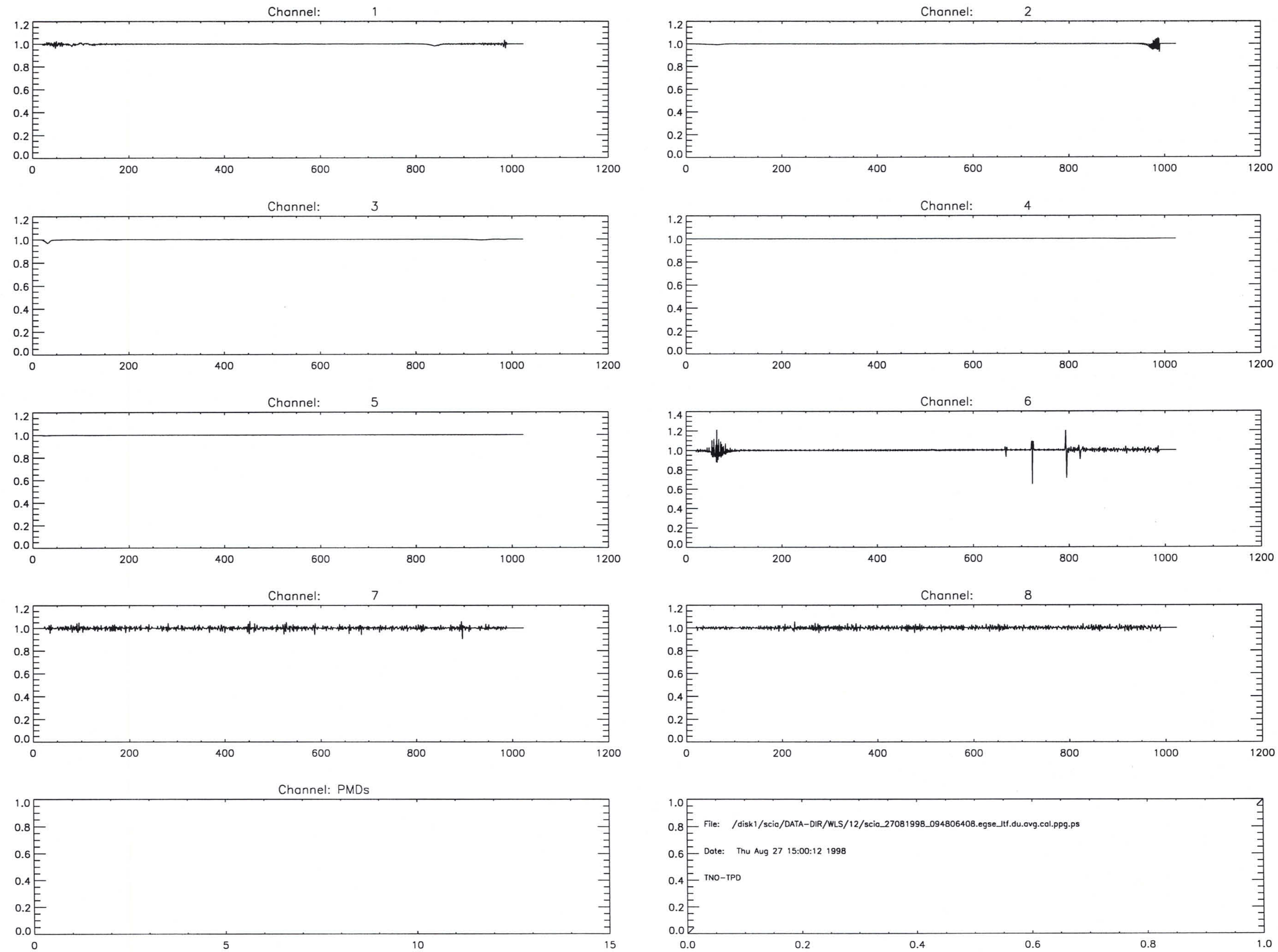

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/WLS/12/scia_27081998_094806408.egse_ltf.qu.avg.cal.ps
Date: Thu Aug 27 14:45:09 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/WLS/12/scia_27081998_094806408.egse_ltf.qu.rel_std.cal.ps
Date: Thu Aug 27 14:45:10 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/12/scia_27081998_094806408.egse_ltf.qu.std.col.ps
Date: Thu Aug 27 14:45:10 1998
TNO-TPD

```
time       = Thu Aug 27 14:45:20 1998
batch      = du
Start TOD = Thu 27-Aug-98 09:48:32
End   TOD = Thu 27-Aug-98 09:49:32
Processing= computation of average, standard dev. and rel.standard dev.
```

```
time       = Thu Aug 27 14:45:10 1998
batch      = qu
Start TOD = Thu 27-Aug-98 09:48:06
End   TOD = Thu 27-Aug-98 09:48:32
Processing= computation of average, standard dev. and rel.standard dev.
```

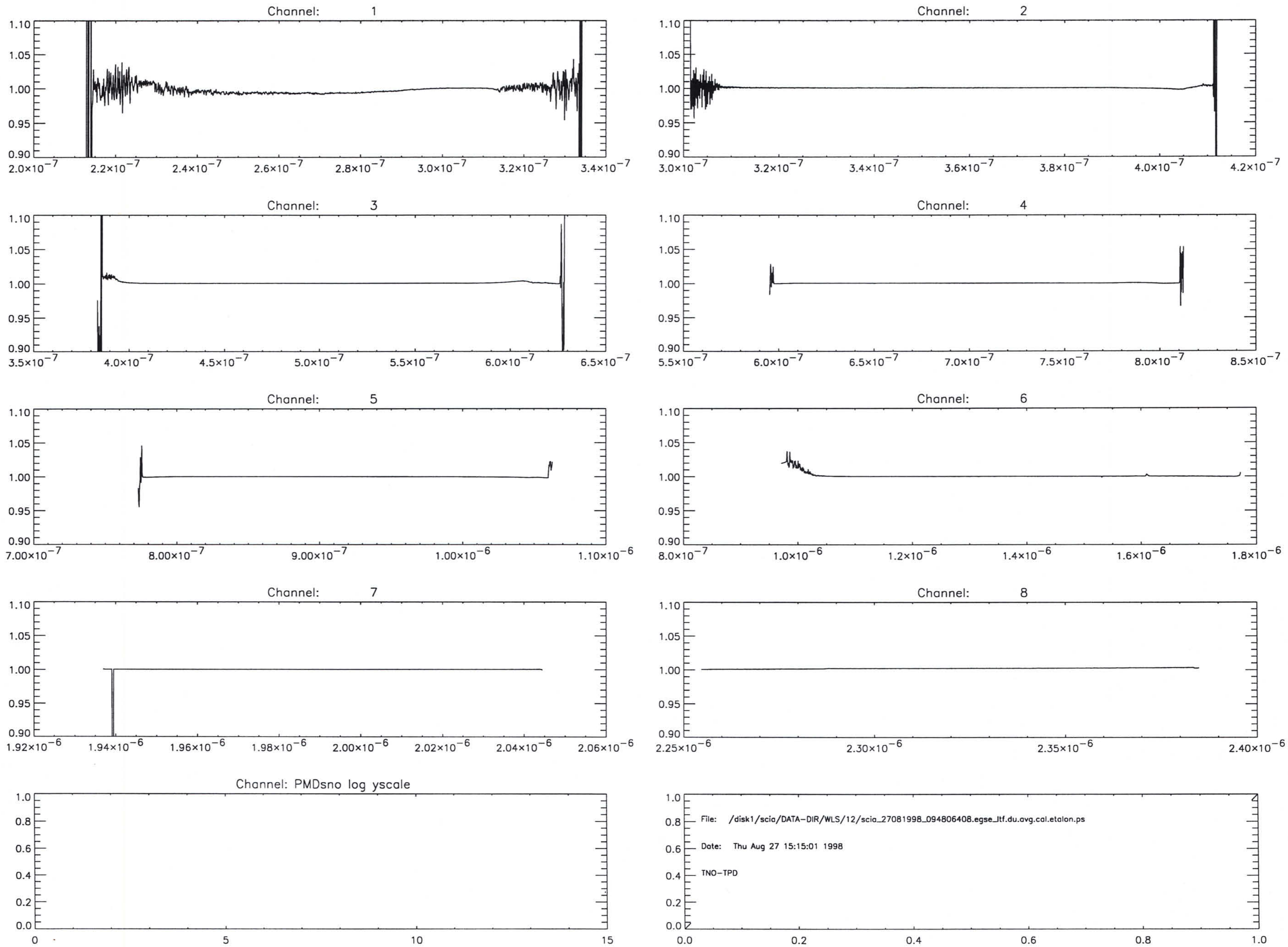


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/WLS/12/scia_27081998_094806408.egse_ltf.du.avg.cal.ppg.ps
Date: Thu Aug 27 15:00:12 1998
TNO-TPD

```
Version:  0.1
Input files:

/disk1/scia/DATA-DIR/WLS/12/scia_27081998_094806408.egse_ltf.du.avg.cal and

/disk1/scia/DATA-DIR/WLS/12/scia_27081998_094806408.egse_ltf.qu.avg.cal
Action: Computation of Pixel to pixel gain
Processing time: Thu Aug 27 15:00:11 1998
Output file name:
/disk1/scia/DATA-DIR/WLS/12/scia_27081998_094806408.egse_ltf.du.avg.cal.ppg.ca
```


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/WLS/12/scia_27081998_094806408.egse_ltf.du.avg.cal.etalon.ps
Date: Thu Aug 27 15:15:01 1998
TNO-TPD

```
Version:  0.1
Input files:

/disk1/scia/DATA-DIR/WLS/12/scia_27081998_094806408.egse_ltf.du.avg.cal and

/disk1/scia/DATA-DIR/WLS/12/scia_27081998_094806408.egse_ltf.qu.avg.cal
Action: Extraction of etalon structure
Processing time: Thu Aug 27 15:14:37 1998
Output file name:
/disk1/scia/DATA-DIR/WLS/12/scia_27081998_094806408.egse_ltf.du.avg.cal.etalon
```

Formal Run of Measurement

(Measurement ID) SLS_INT

Request for Actual Status	X	(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

Step 15-4

Azimuth	+45,00	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	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	4	1				
1b	4	1	4	1				
2b	2	2	2	2				
2a	2	2	2	2				
3	0,125	32	0,125	32				
4	0,03125	64	0,03125	64				
5	0,25	16	0,25	16				
6	0,25	16	0,25	16				
7	1	4	1	4				
8	1	4	1	4				
State ID	41		42					

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]
1	-1	-	-	-	-	-	-	0	1	PU	

Measurement Data Description

Test Purpose	UID 24
Remark	
Data Directory	0239_09.56.01_SLS_INT

Signatures

	Date	Signature
Issued	27-8-1998	[signature]
< Performed	27.8.98	[signature]

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Dion Oude Lansink 27-8-'98	
	What's the name of the (main) data input files generated by the EGSE? (*.dat)	SCiA_27081998.095905926.dAT	(A) OK.
	Setup a three-window configuration on your SUN.		see course descr.
Cnstr directory	cd ~/DATA-DIR/SPEC-CAL/ ; ls -l highest number in directory?	14.	Note: In window DATA-DIR (B)
	New directory: mkdir <B+1> ls -l What's now the highest number in directory?	15	(C)
	<C> should be <B> + 1	Y / N (Y circled)	
	directory name is:	~/DATA-DIR/SPECCAL/<C>	(DIR-NAME)
Copy data	See Analysis sheet: Transfer Data File	Y / N (Y circled)	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	OK	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 (Y circled)	
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
	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`

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 SU labels are present in dremark1 labels → ONLY PU (?)
(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: 0,1 for channels 7,8

Add postscript images to logbook, done Y / N

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

Spec line processing

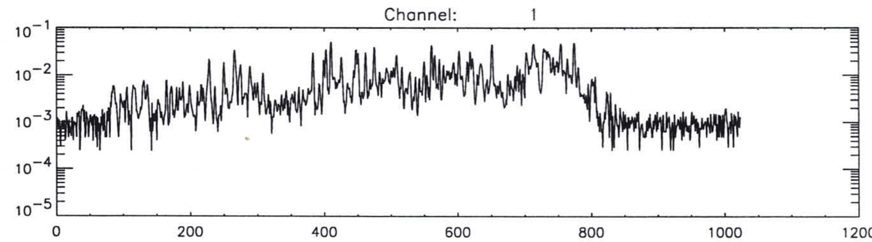
Run Spec `idl do_spec_cal` In IDL window

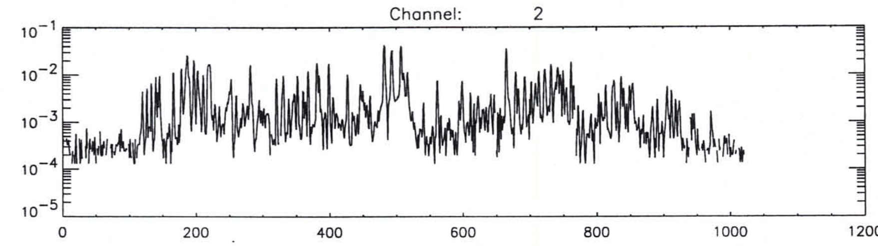
Check spec	ls -l wl.data		In DATA DIR window should be approx a few kilobytes
	Size of file wl.data	927 b	
Check XSI visually	lpr -P<printer> *.data.ps Is the value of the spectral calibration approx. a straight line in all channels? (Note: in channel 2: negative slope)	Y / N	
	Add postscript images to logbook, done	Y / N	
Print logfiles	lpr -P<printer> *.log Add logfiles to logbook, done	Y / N	

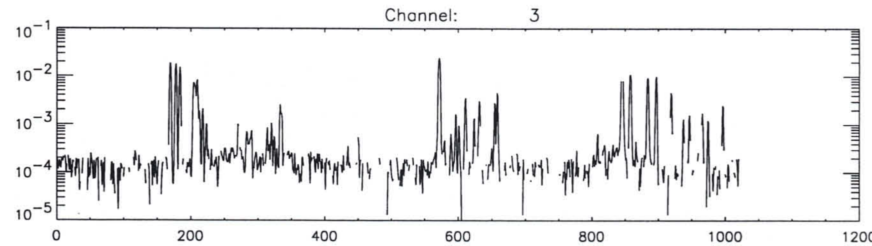
Back up	Create 3 sets of backup CDs of directory <DIR-NAME> (One CD has a capacity of 600 Mbytes, the UNIX command /usr/bin/du -k . gives the number of kilo bytes in the current directory). Name of backup CDs	270890A	See analysis sheet BackUp

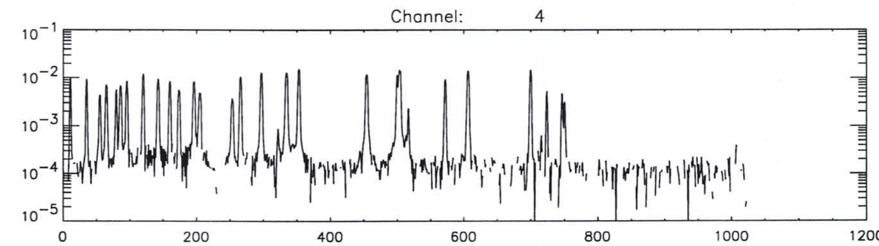
---

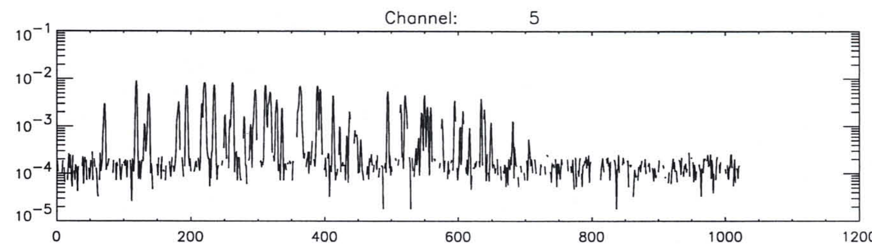
Sign:	Name	Dion Oude Lansink
	Date and time	27-8-'98
	Signature	

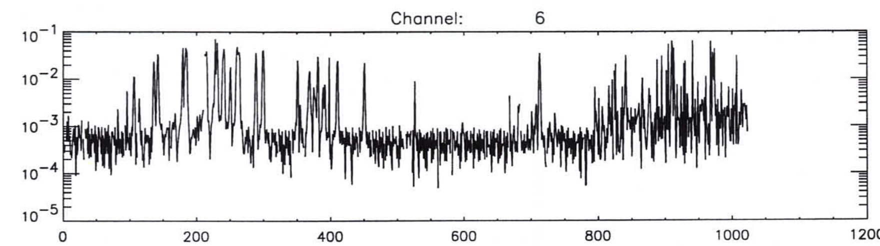

Channel: 1

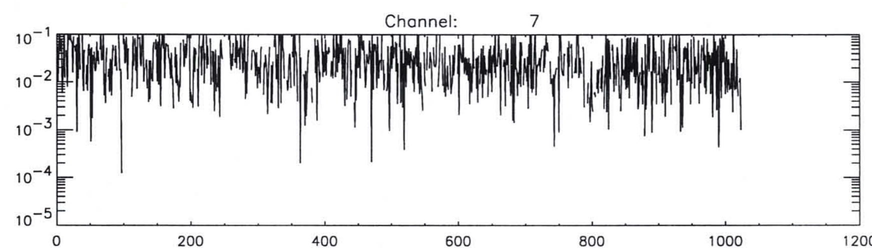

Channel: 2

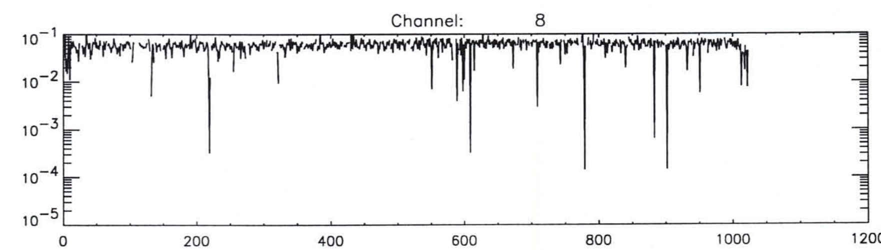

Channel: 3

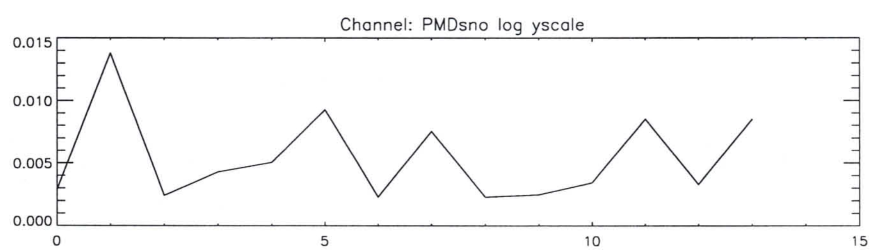

Channel: 4

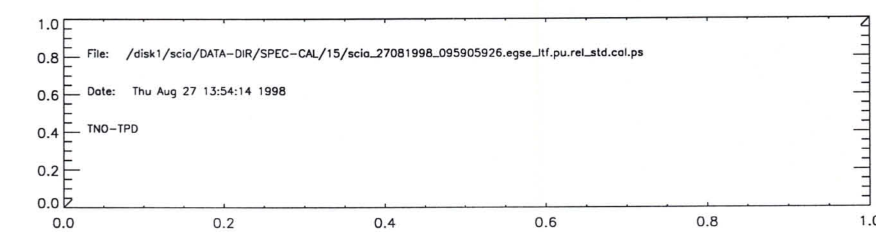

Channel: 5

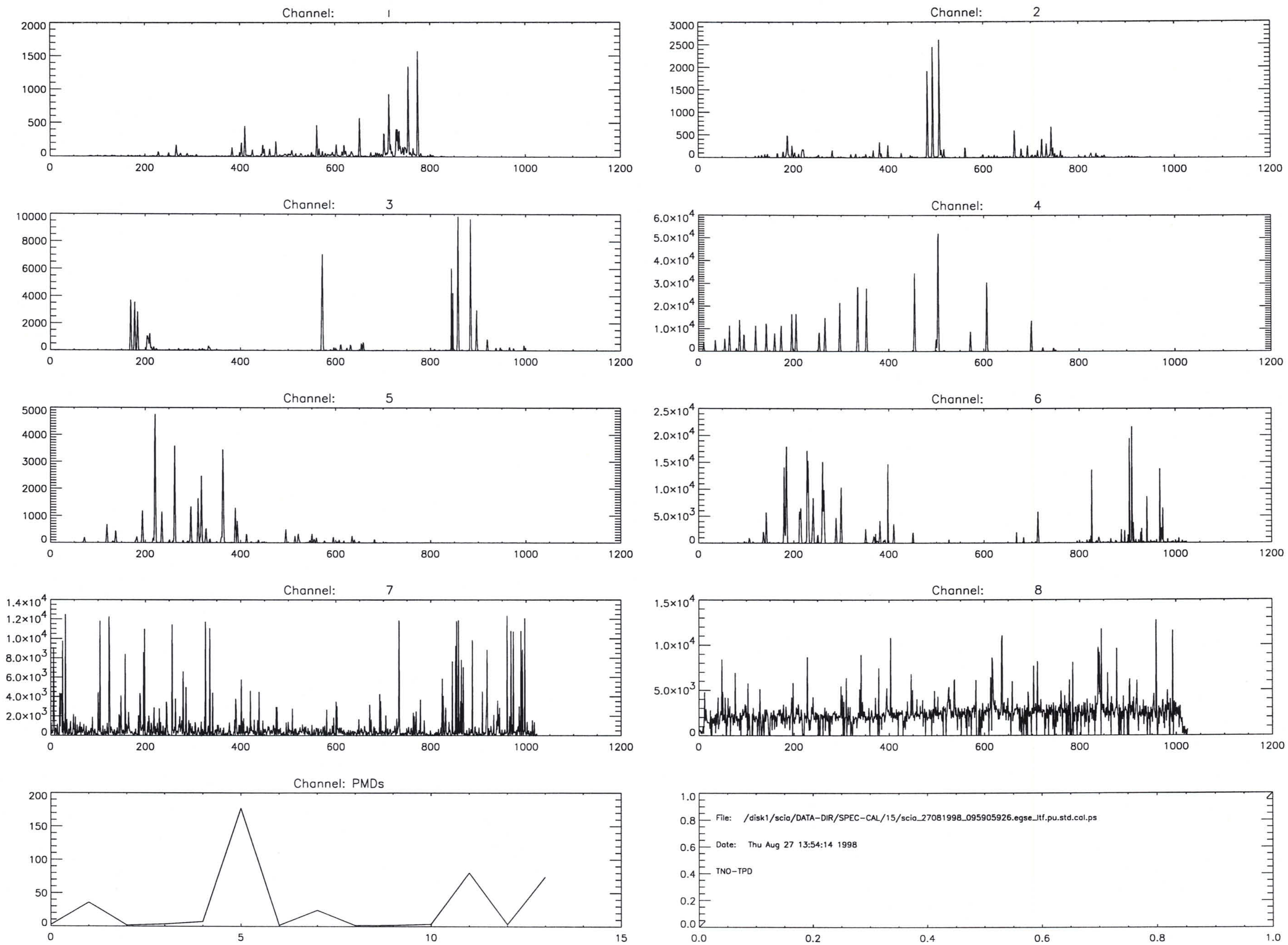

Channel: 6

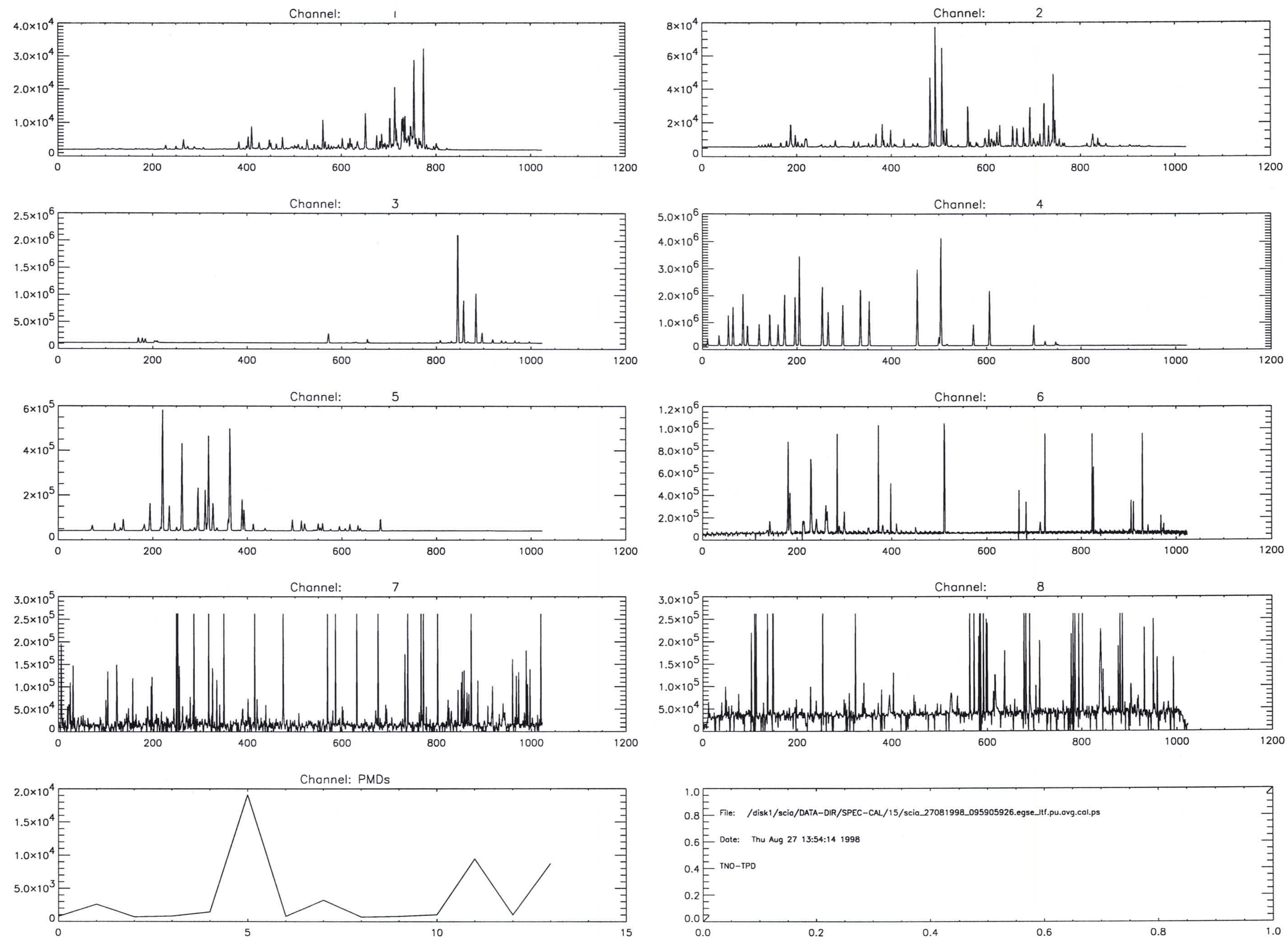

Channel: 7


Channel: 8

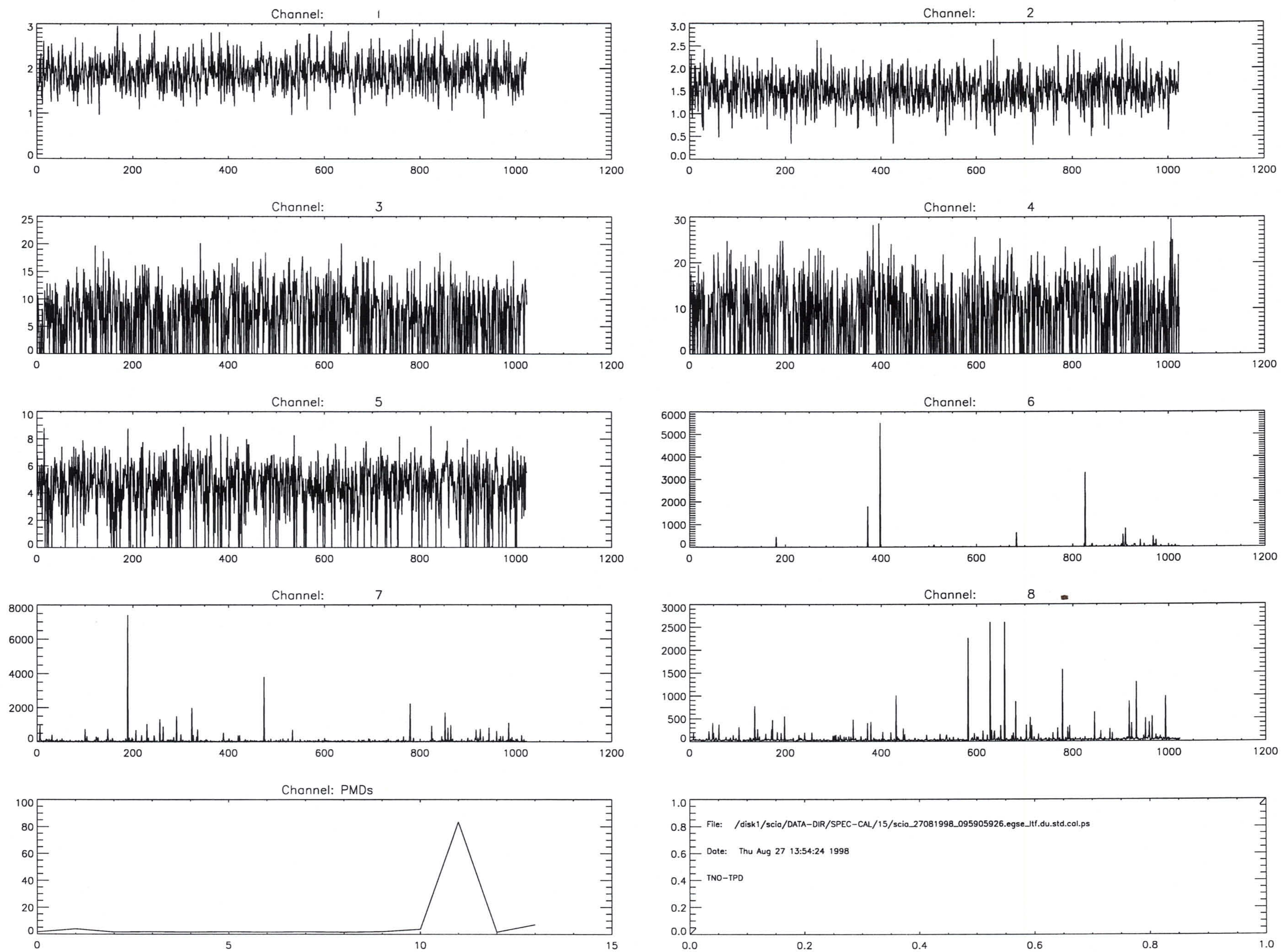

Channel: PMDsno log yscale


File: /disk1/scia/DATA-DIR/SPEC-CAL/15/scia_27081998_095905926.egse_ltf.pu.rel_std.cal.ps
Date: Thu Aug 27 13:54:14 1998
TNO-TPD

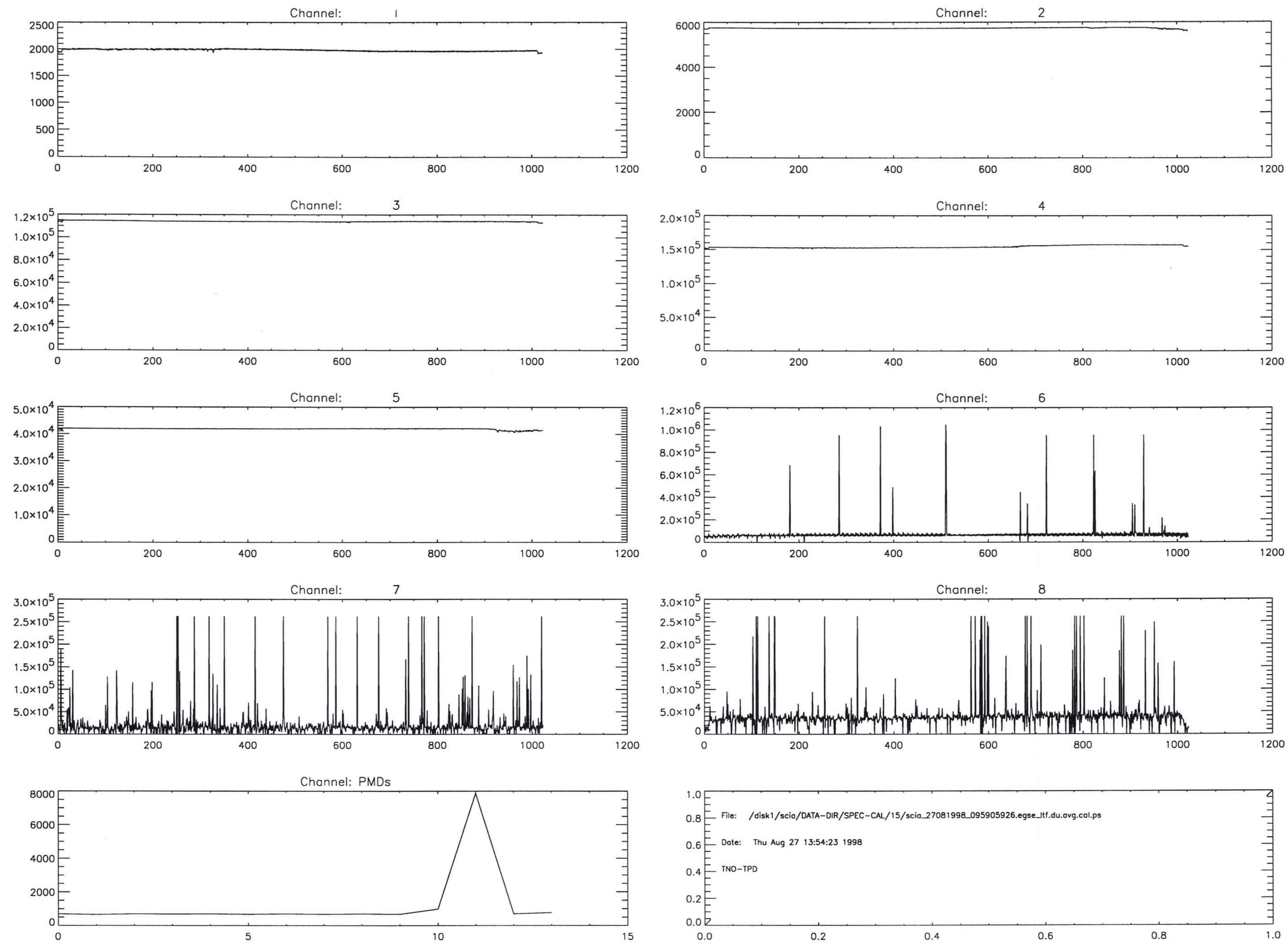

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/SPEC-CAL/15/scia_27081998_095905926.egse_ltf.pu.std.cal.ps
Date: Thu Aug 27 13:54:14 1998
TNO-TPD



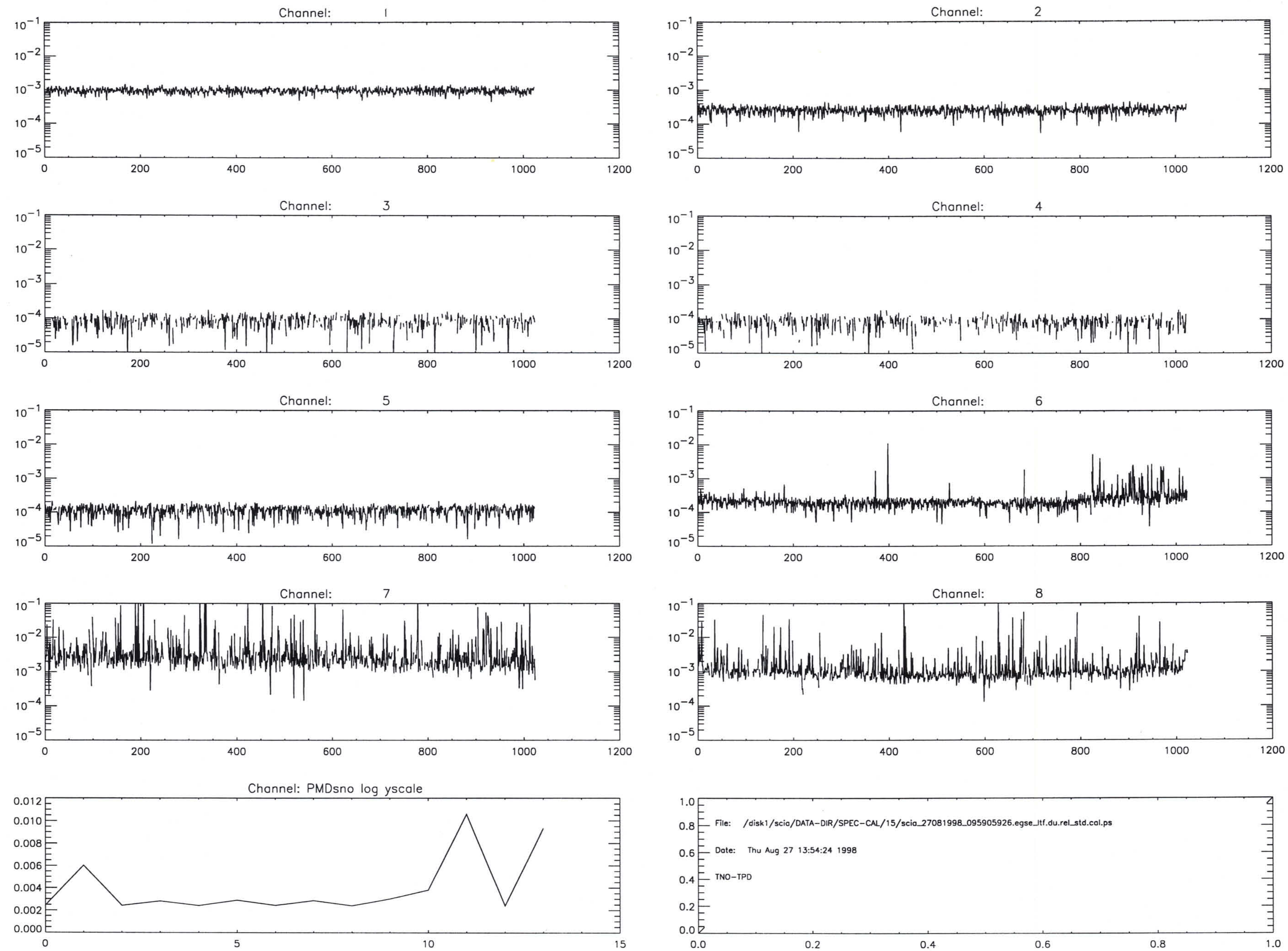
Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/SPEC-CAL/15/scia_27081998_095905926.egse_ltf.pu.avg.cal.ps
Date: Thu Aug 27 13:54:14 1998
TNO-TPD



Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/SPEC-CAL/15/scia_27081998_095905926.egse_ltf.du.std.cal.ps
Date: Thu Aug 27 13:54:24 1998
TNO-TPD

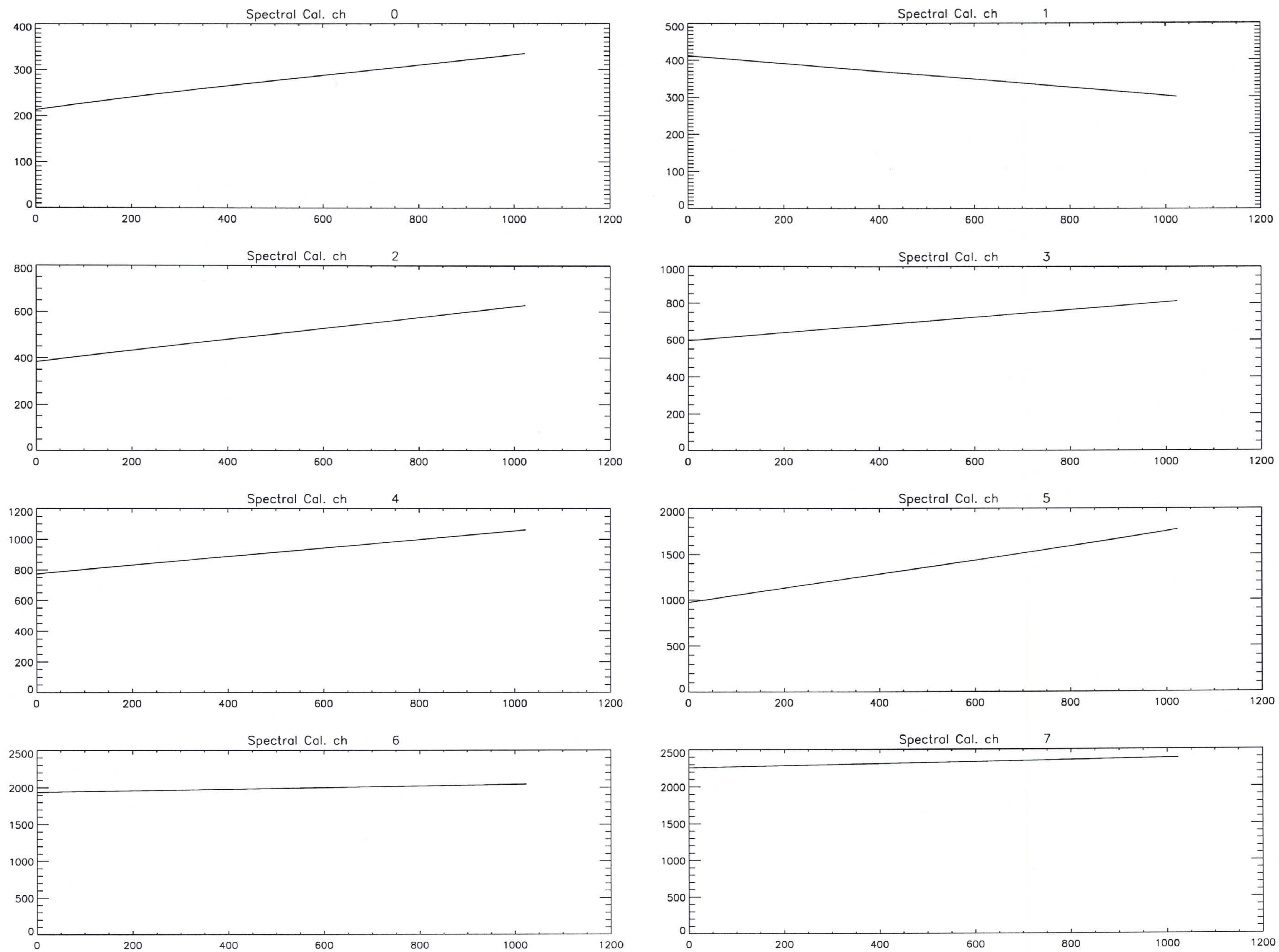


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/SPEC-CAL/15/scia_27081998_095905926.egse_ltf.du.avg.cal.ps
Date: Thu Aug 27 13:54:23 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/SPEC-CAL/15/scia_27081998_095905926.egse_ltf.du.rel_std.col.ps
Date: Thu Aug 27 13:54:24 1998
TNO-TPD

```
time       = Thu Aug 27 13:54:24 1998
batch      = du
Start TOD = Thu 27-Aug-98 09:59:31
End   TOD = Thu 27-Aug-98 10:00:31
Processing= computation of average, standard dev. and rel.standard dev.
```

```
time       = Thu Aug 27 13:54:14 1998
batch      = pu
Start TOD = Thu 27-Aug-98 09:59:05
End   TOD = Thu 27-Aug-98 09:59:31
Processing= computation of average, standard dev. and rel.standard dev.
```



Spectral Cal. ch 0
Spectral Cal. ch 1
Spectral Cal. ch 2
Spectral Cal. ch 3
Spectral Cal. ch 4
Spectral Cal. ch 5
Spectral Cal. ch 6
Spectral Cal. ch 7

```
Version:  0.1
Input files:

/disk1/scia/DATA-DIR/SPEC-CAL/15/scia_27081998_095905926.egse_ltf.du.avg.cal
 and

/disk1/scia/DATA-DIR/SPEC-CAL/15/scia_27081998_095905926.egse_ltf.pu.avg.cal
Action:
Spectral calibration
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/200898/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/200898/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/200898/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/200898/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/200898/stray.da
Coefficients in file /disk1/scia/DATA-DIR/SPEC-CAL/15/scia_27081998_095905926.
Processing time: Thu Aug 27 14:28:49 1998
Output file name:
/disk1/scia/DATA-DIR/SPEC-CAL/15/scia_27081998_095905926.egse_ltf.du.avg.cal.w
```

```
time       = Thu Aug 27 13:54:24 1998
batch      = du
Start TOD = Thu 27-Aug-98 09:59:31
End   TOD = Thu 27-Aug-98 10:00:31
Processing= computation of average, standard dev. and rel.standard dev.
```

```
time       = Thu Aug 27 13:54:14 1998
batch      = pu
Start TOD = Thu 27-Aug-98 09:59:05
End   TOD = Thu 27-Aug-98 09:59:31
Processing= computation of average, standard dev. and rel.standard dev.
```

Formal Run of Measurement

(Measurement ID) ETA_IR

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	13									
Repetitions	2									

done

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

Channel	PET [s] or Hf	Co-Adding	PET [s] or Hf	Co-Adding	PET [s] or Hf	Co-Adding	PET [s] or Hf	Co-Adding
1a	64	1						
1b	64	1						
2b	16	4						
2a	16	4						
3	0.5	8						
4	0.25	16						
5	0.25	16						
6	0.03125	64						
7	0.0625	64						
8	0.25	16						
State ID								

ETA-IR at high temperatures

intended date 18-8-1998

Stimuli Settings for Existing Blocks in Measurement

Block No	Stimuli Setup ID	RPC [deg]	Polarizer [deg]	Shutter open/close	Acquisition Time [s]	Lambda (nm) Start	Lambda (nm) Stop	Lambda (nm) Step	Repetition Factor	Message	DS Setup Time [s]
1	2	15	171.6	close	1	240	240	0	2	OU1	12
2.1	2	15	171.6	open	1	240	240	0	[illegible]	wsd#	20
2.2	2	15	85.4	open	1	240	240	0	2	wpd#	20
3.1	2	5	171.6	open	1	240	240	0	2	wsb#	20
3.2	2	5	85.4	open	1	240	740	0	2	wpb#	20
4	2	5	85.4	close	1	240	240	0	2	OU2	8

Measurement Data Description

Test Purpose	UID 8
Remark	repeated msm
Data Directory	0239_10.43.31_ETA_IR

Signatures

	Date	Signature
Issued		
Performed	27.8.98	[signature]

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Marion 27-08	
	What's the name of the (main) data input files that you want to store on the SUN named `scia6`?	____________	(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).		In DATA-DIR window
	When asked for user, fill in: `anonymous`, when asked for an email address, fill in your email address on TPD.	____________	In DATA window
	Set in binary: `binary` `mget *` (and return `y` to every file). `bye`		Approx. 140 kB

Sign:	Name	Marion
	Date and time	27-08 13:25
	Signature	M Stapp

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Marion Stoppelenburg 27-08	
	What's the name of the (main) data input files generated by the EGSE? (`*.dat`)	scia_27041998_104642586.dat	(A)
	Setup a three-window configuration on your SUN.		see course descr.
Cnstr directory	`cd ~/DATA-DIR/ETA-IR/ ; ls -l` highest number in directory?	6	Note: In window DATA-DIR (B)
	New directory: `mkdir <B+1>` `ls -l` What's now the highest number in directory?	7	(C)
	<C> should be <B> + 1	Y / N	
	directory name is:	~/DATA-DIR/ETA-IR/<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_27081998_104642586.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:	146 kb	should be approx 150Kb
	S-pol file: `ls -l *ws*.avg.cal` size:	146 kb	should be approx 150Kb
	P-pol file:		

ls -l *.wp*.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, 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 P file *wp*.avg.cal should resemble white light source: Y / N

Contents S file *ws*.avg.cal.ps and *wp*.avg.cal.ps should resemble white light source: Y / N
Contents of *rel_std.cal.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

ETA processing

Run ETA

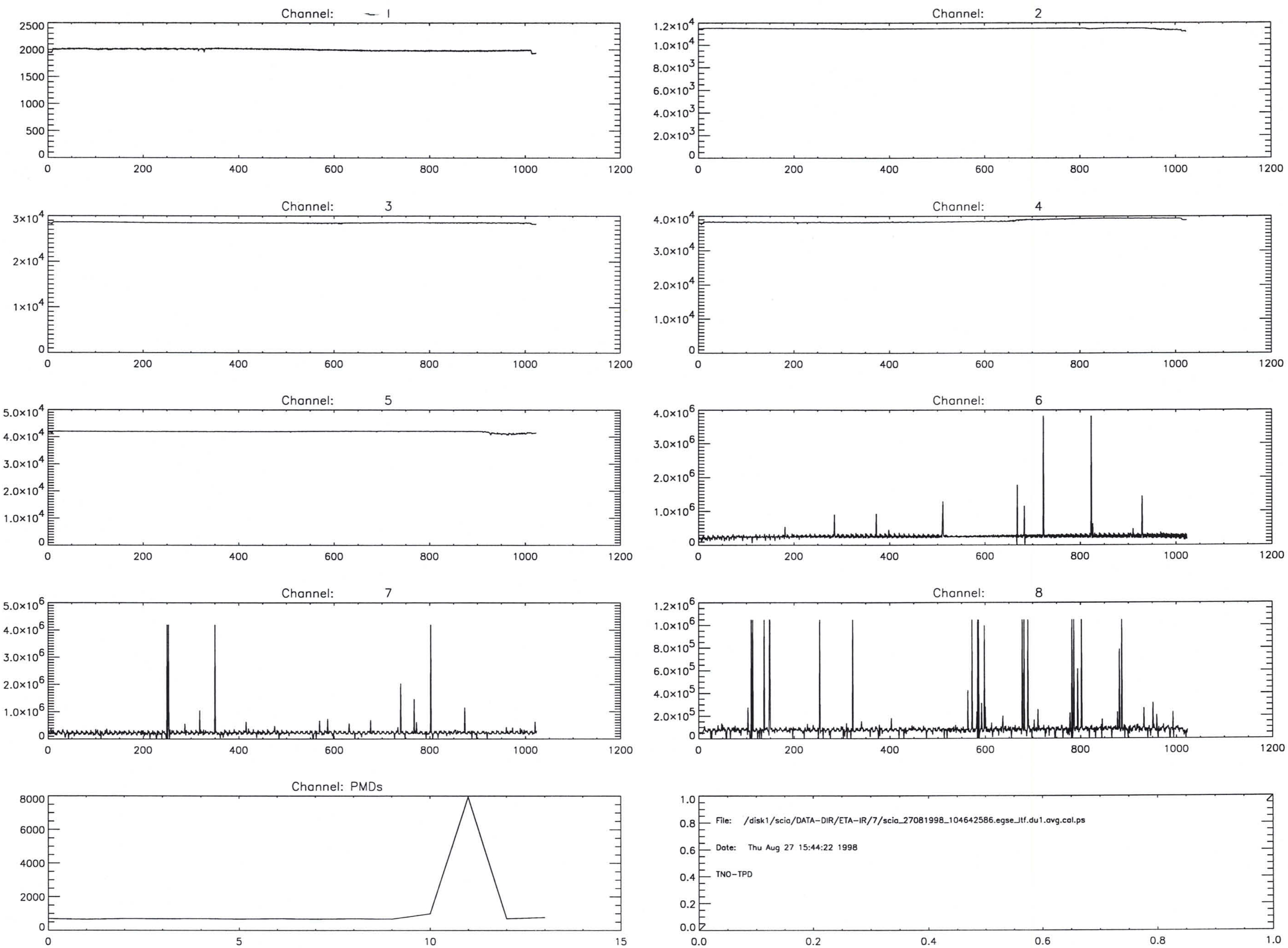
idl do_eta — In IDL window

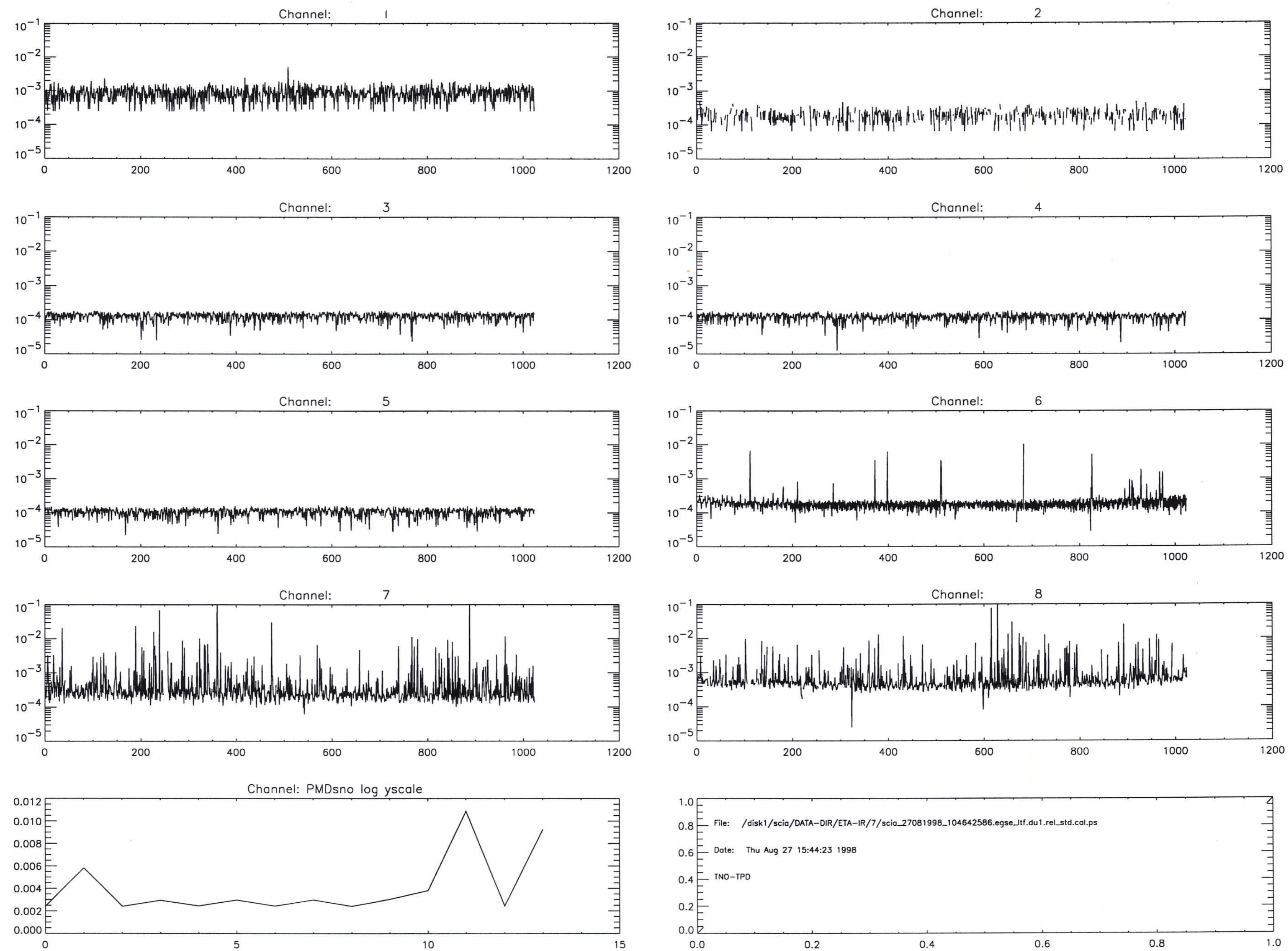
Check ETA — In DATA-DIR window

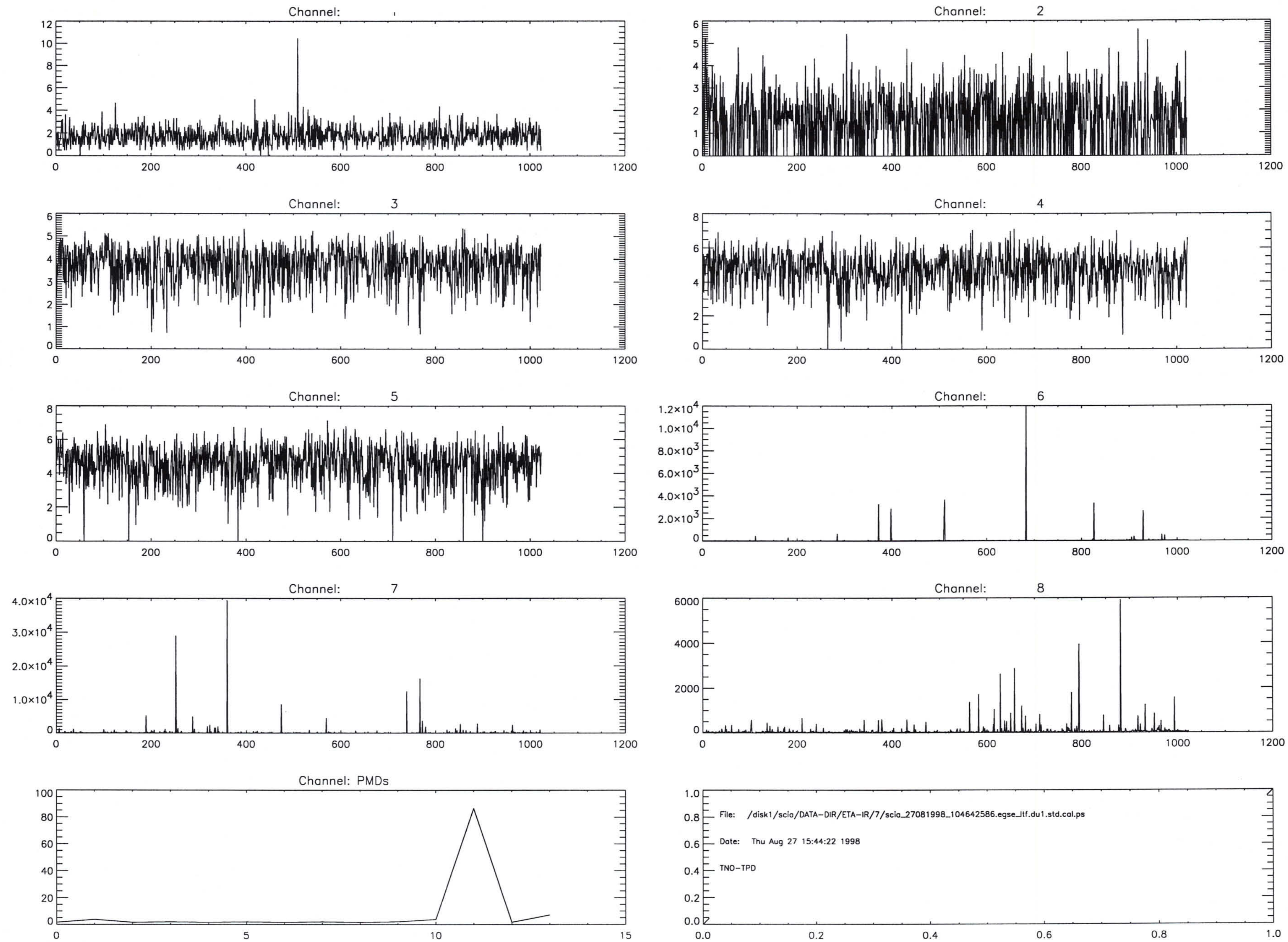
ls -l *.p1.* | more
Size of file <D>.du*.avg.cal.[b|d].p1.cal 146 kb — should be approx 150Kb

Size of file <D>.du*.avg.cal.[b|d].p1.log 901 b

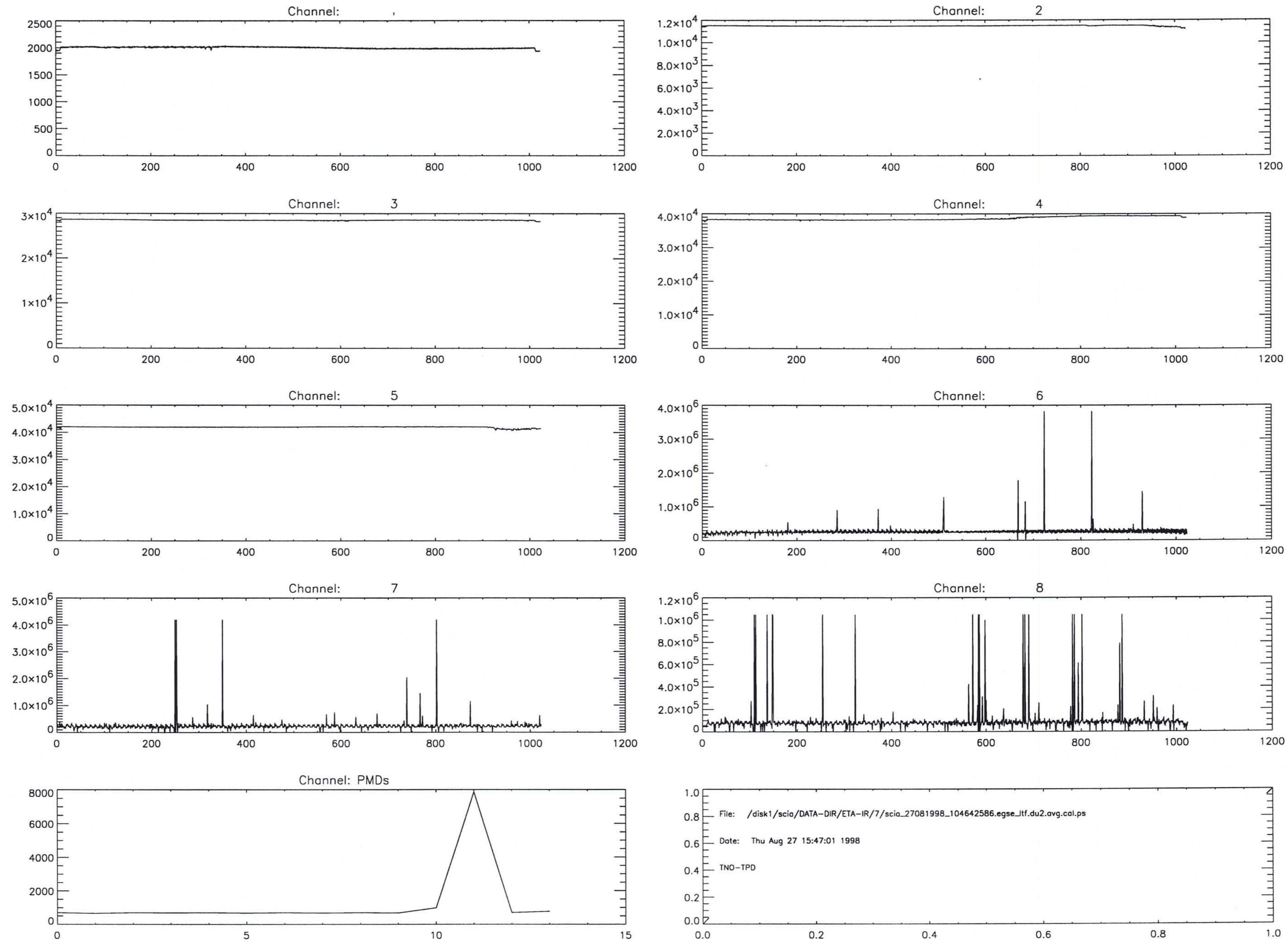
Check ETA visually	Size of file `<D>.du*.avg.cal.[b|d].p1.ps`	138 kb	
	`lpr -P<printer> <D>.*du.*.p1.cal.ps` Value of ETA in each channel (pixel 300 -- 800) between 0 and 3? (In channels 5-8).	Y / N	
	Value of ETA resembles expected ETA (see [Predicted PFM calibration results])?	Y / N	
	Add postscript images to logbook, done	Y / N	
Print logfiles	`lpr -P<printer> <D>.du*.p1.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	270898 A	See analysis sheet BackUp
Sign:	Name	Marion Stoppelenburg	
	Date and time	27-08 12:30	
	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/ETA-IR/7/scia_27081998_104642586.egse_ltf.du1.avg.cal.ps
Date: Thu Aug 27 15:44:22 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/ETA-IR/7/scia_27081998_104642586.egse_ltf.du1.rel_std.cal.ps
Date: Thu Aug 27 15:44:23 1998
TNO-TPD



Channel:
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scio/DATA-DIR/ETA-IR/7/scia_27081998_104642586.egse_ltf.du1.std.cal.ps
Date: Thu Aug 27 15:44:22 1998
TNO-TPD



Channel:
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
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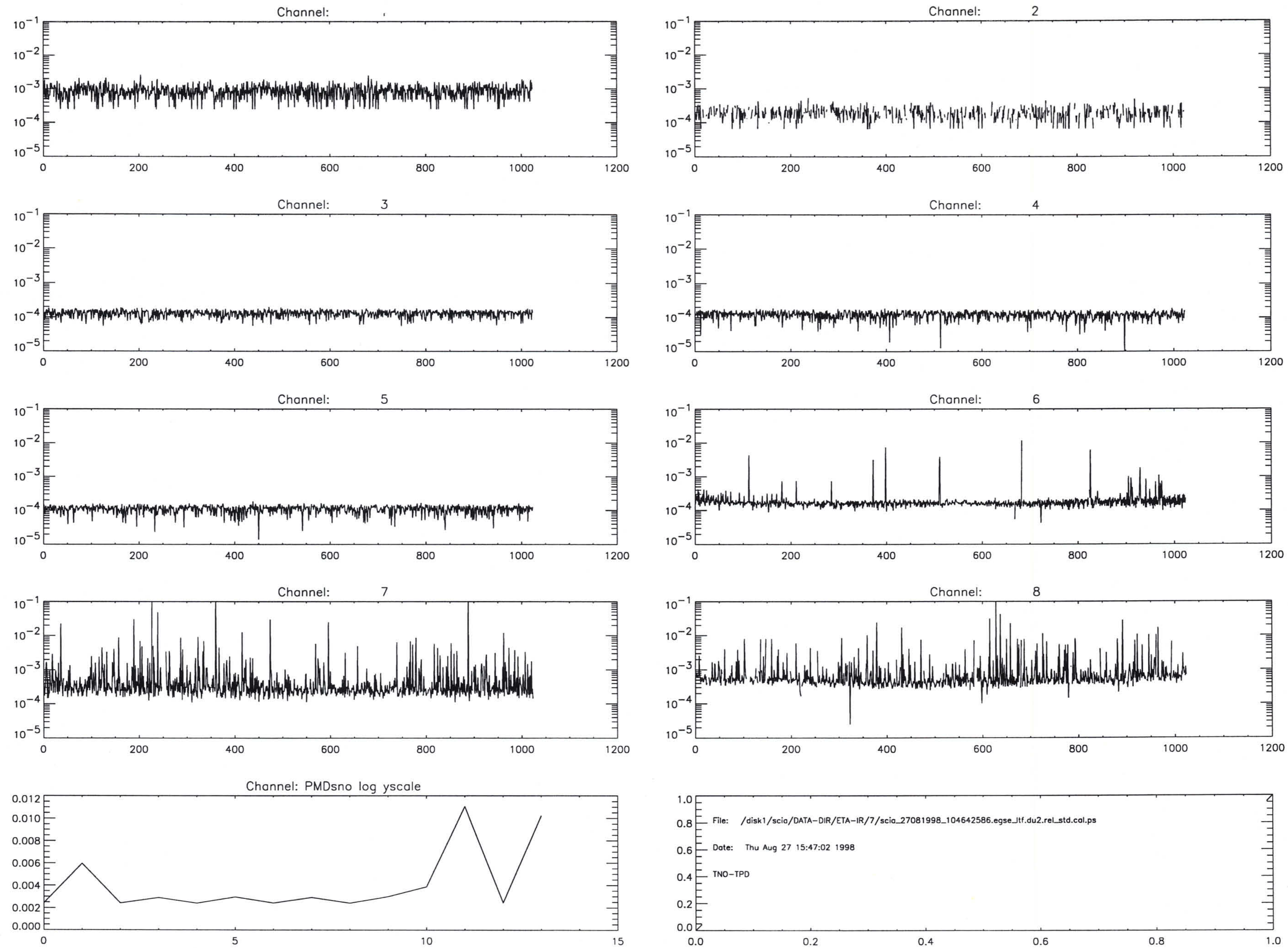
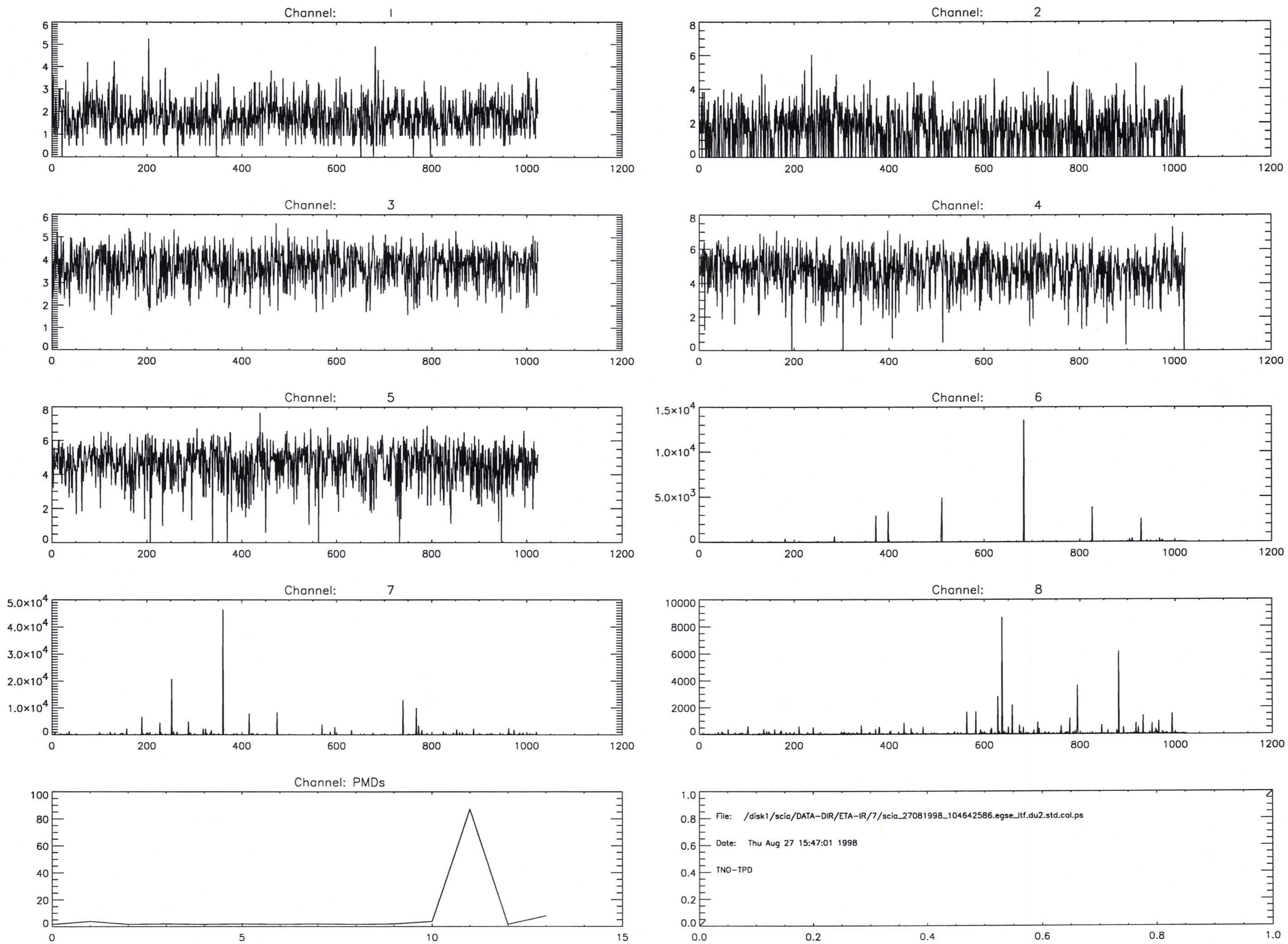
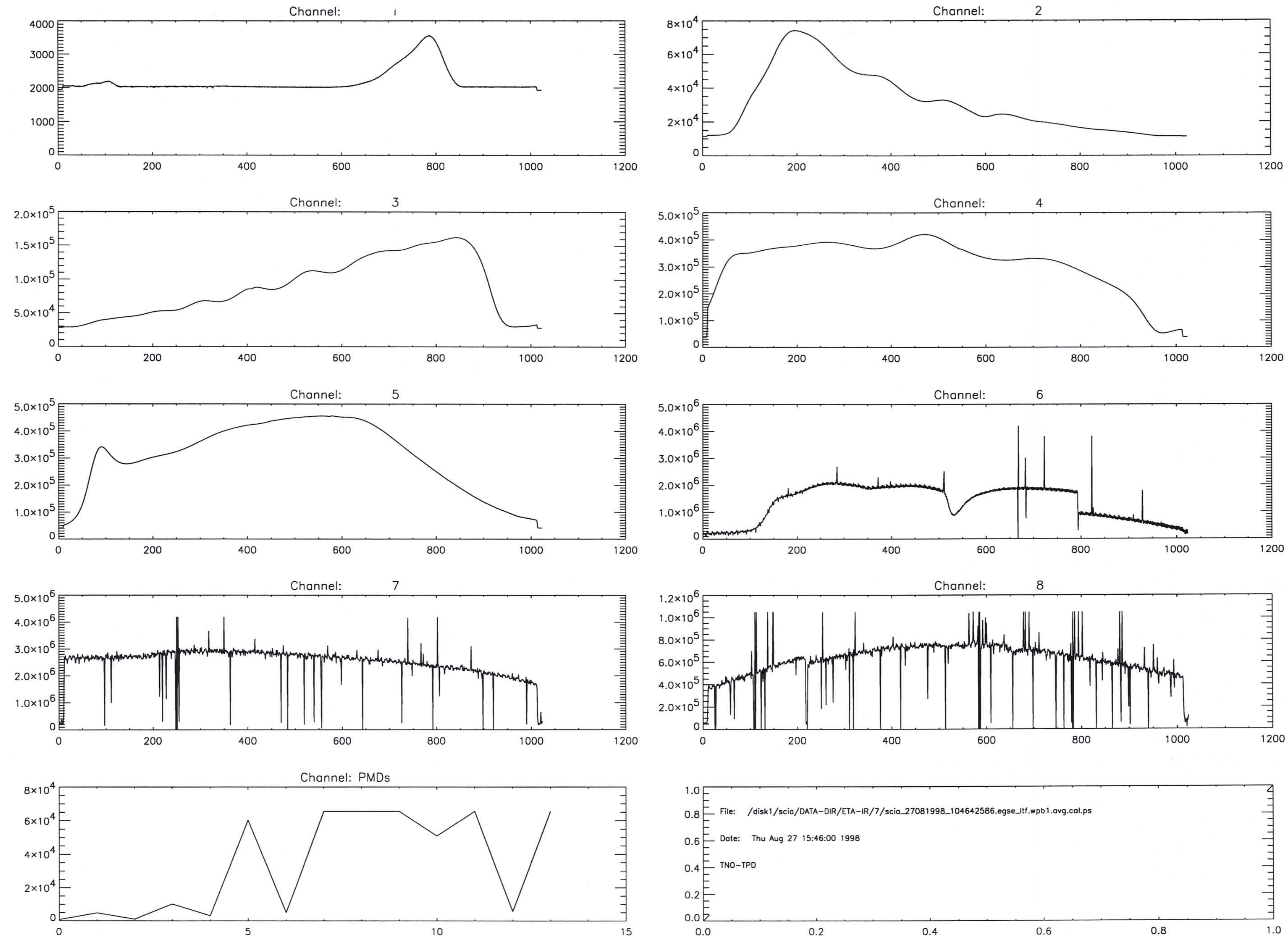
Date: Thu Aug 27 15:47:01 1998
TNO-TPD



Channel:
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scio/DATA-DIR/ETA-IR/7/scia_27081998_104642586.egse_itf.du2.rel_std.cal.ps
Date: Thu Aug 27 15:47:02 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/ETA-IR/7/scia_27081998_104642586.egse_ltf.du2.std.cal.ps
Date: Thu Aug 27 15:47:01 1998
TNO-TPD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Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
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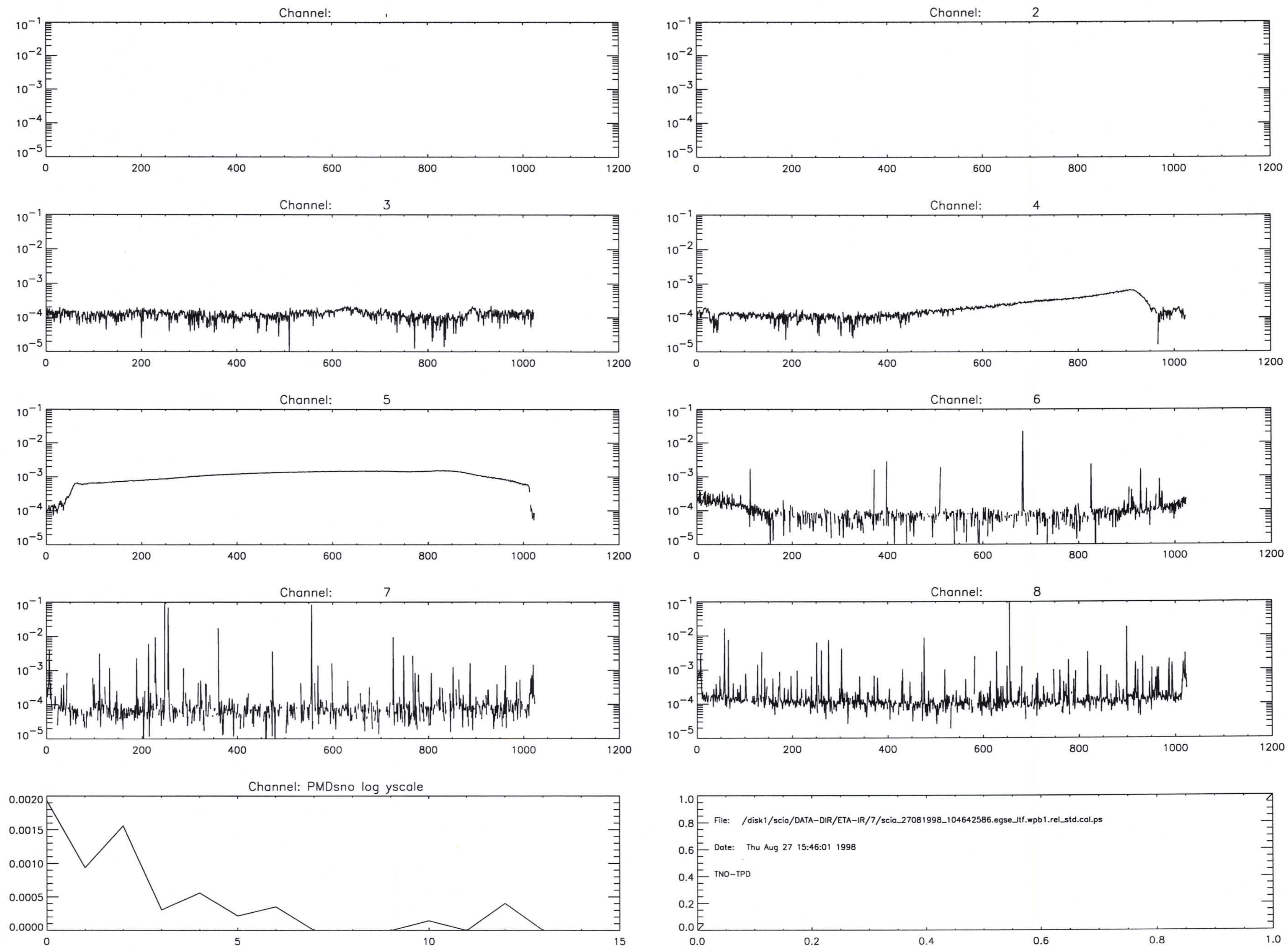
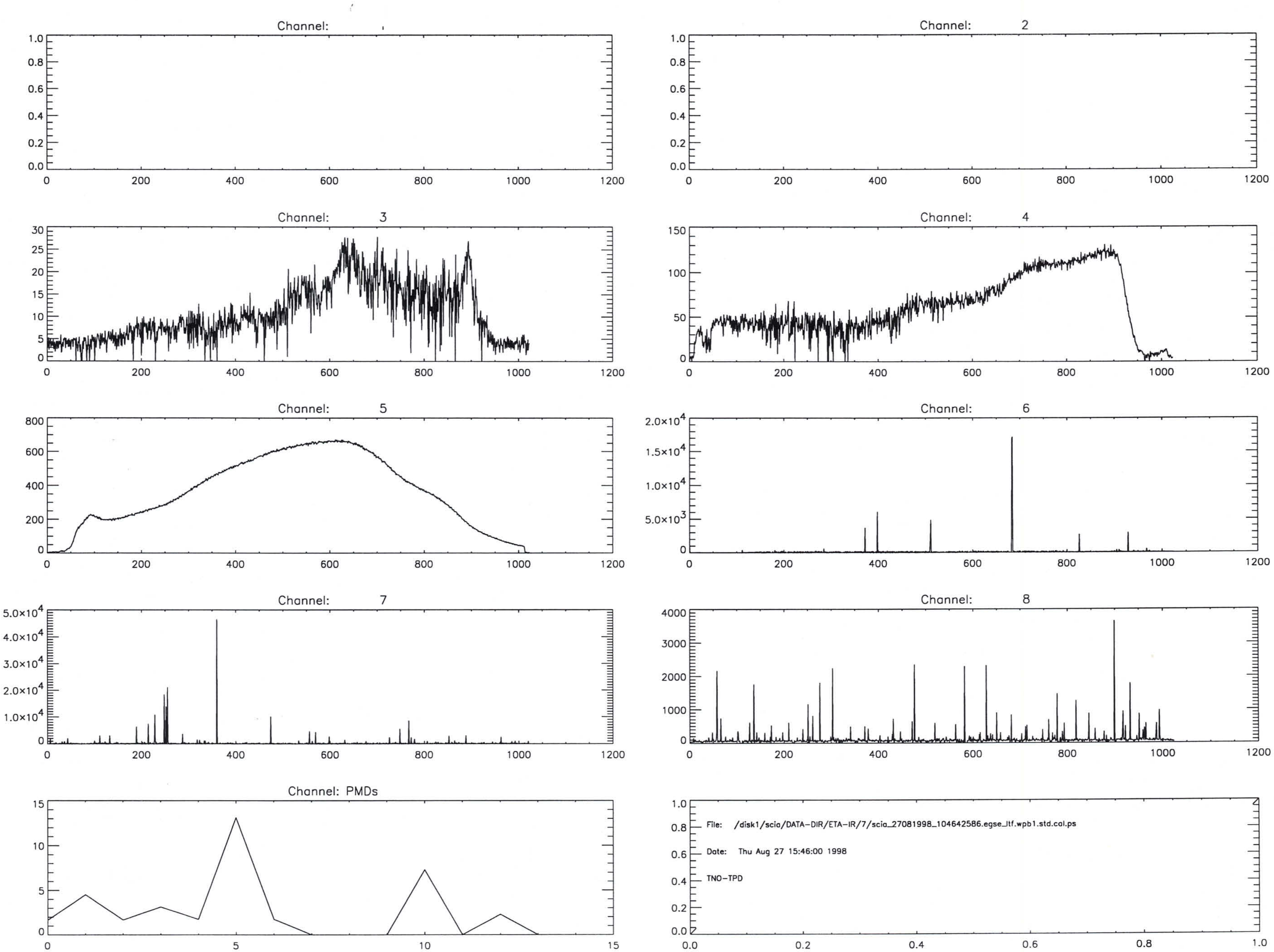
Date: Thu Aug 27 15:46:00 1998
TNO-TPD


Channel:
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/ETA-IR/7/scia_27081998_104642586.egse_ltf.wpb1.rel_std.cal.ps
Date: Thu Aug 27 15:46:01 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/ETA-IR/7/scia_27081998_104642586.egse_ltf.wpb1.std.col.ps
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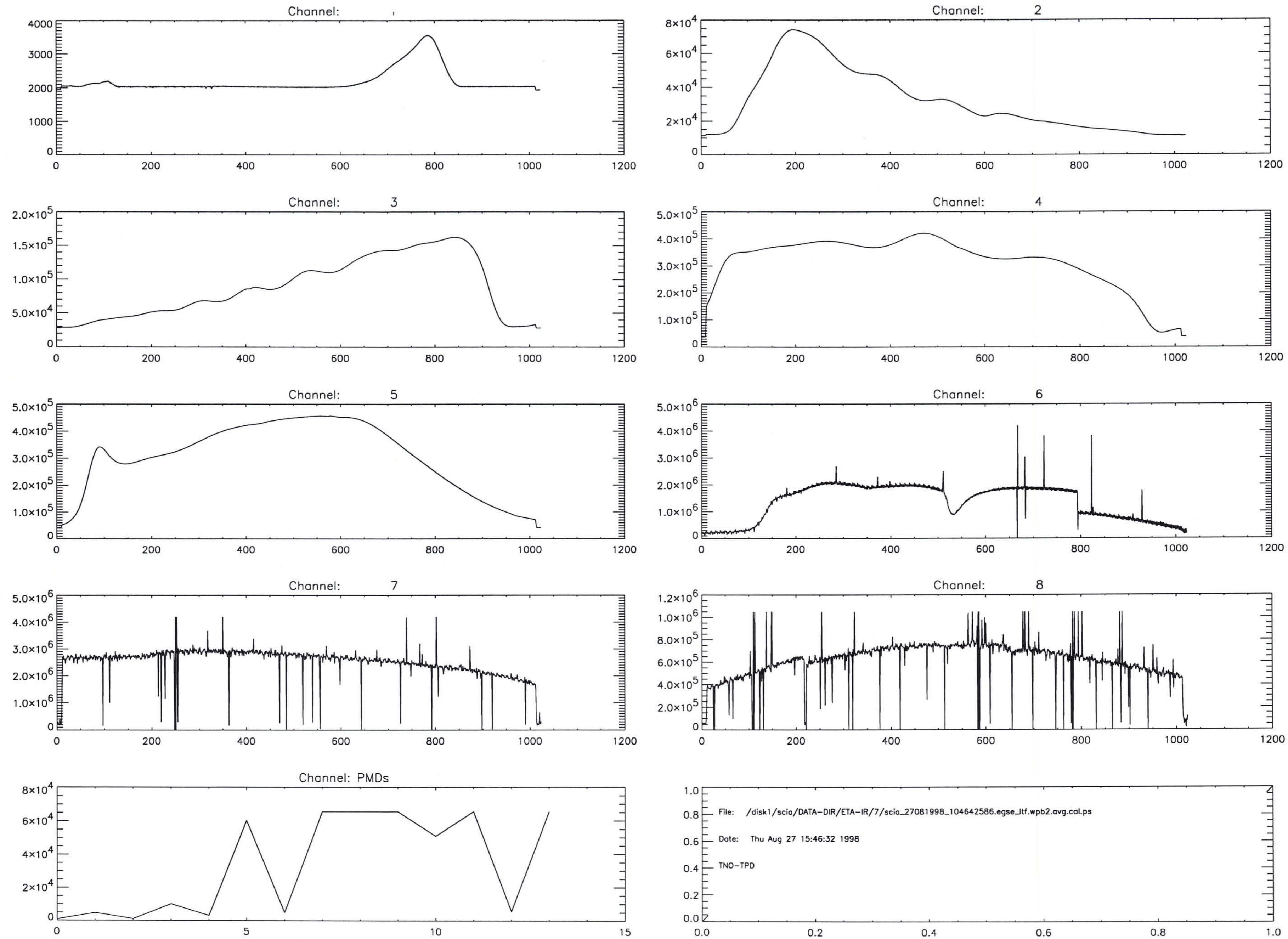
TNO-TPD



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Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
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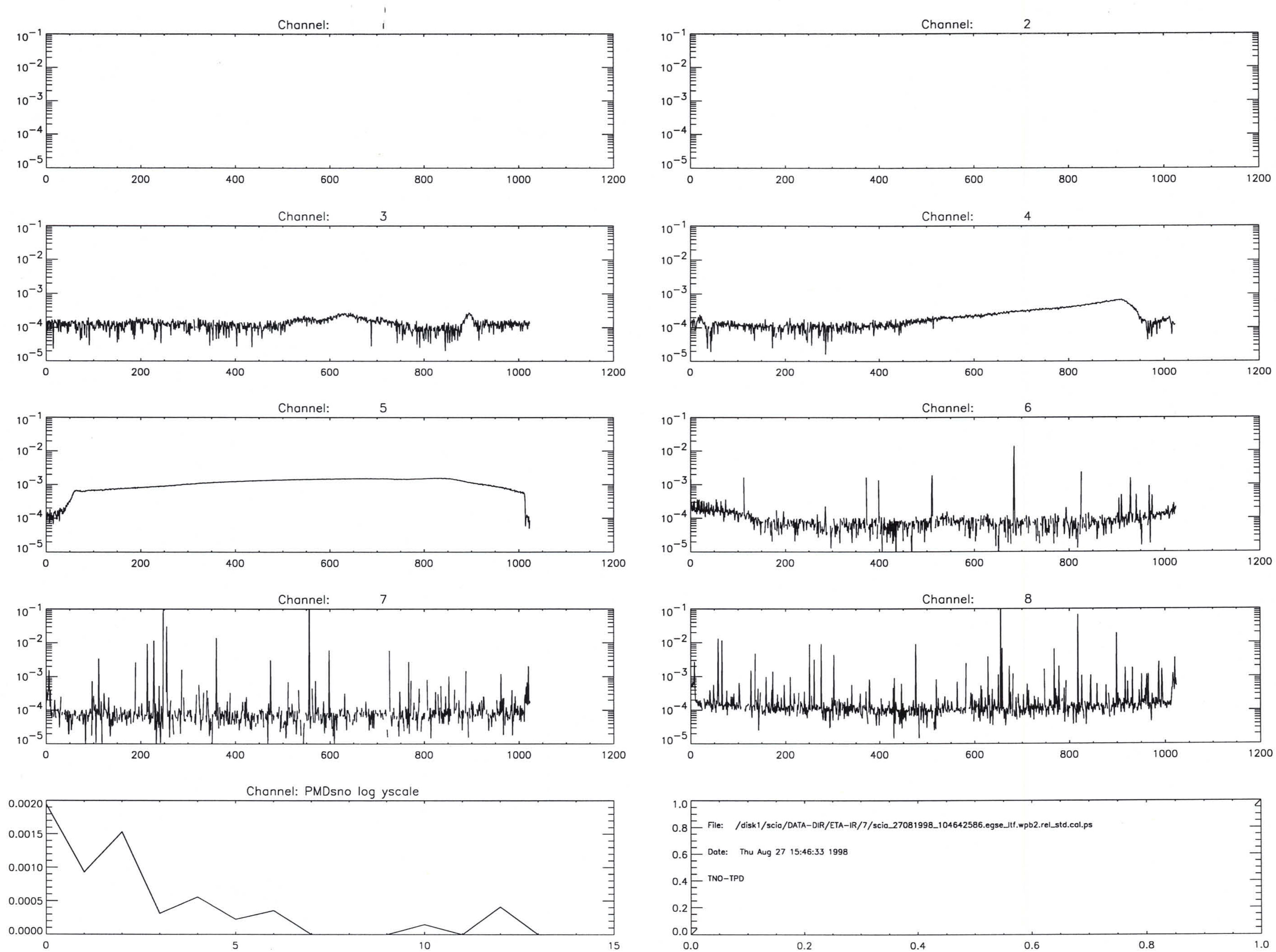
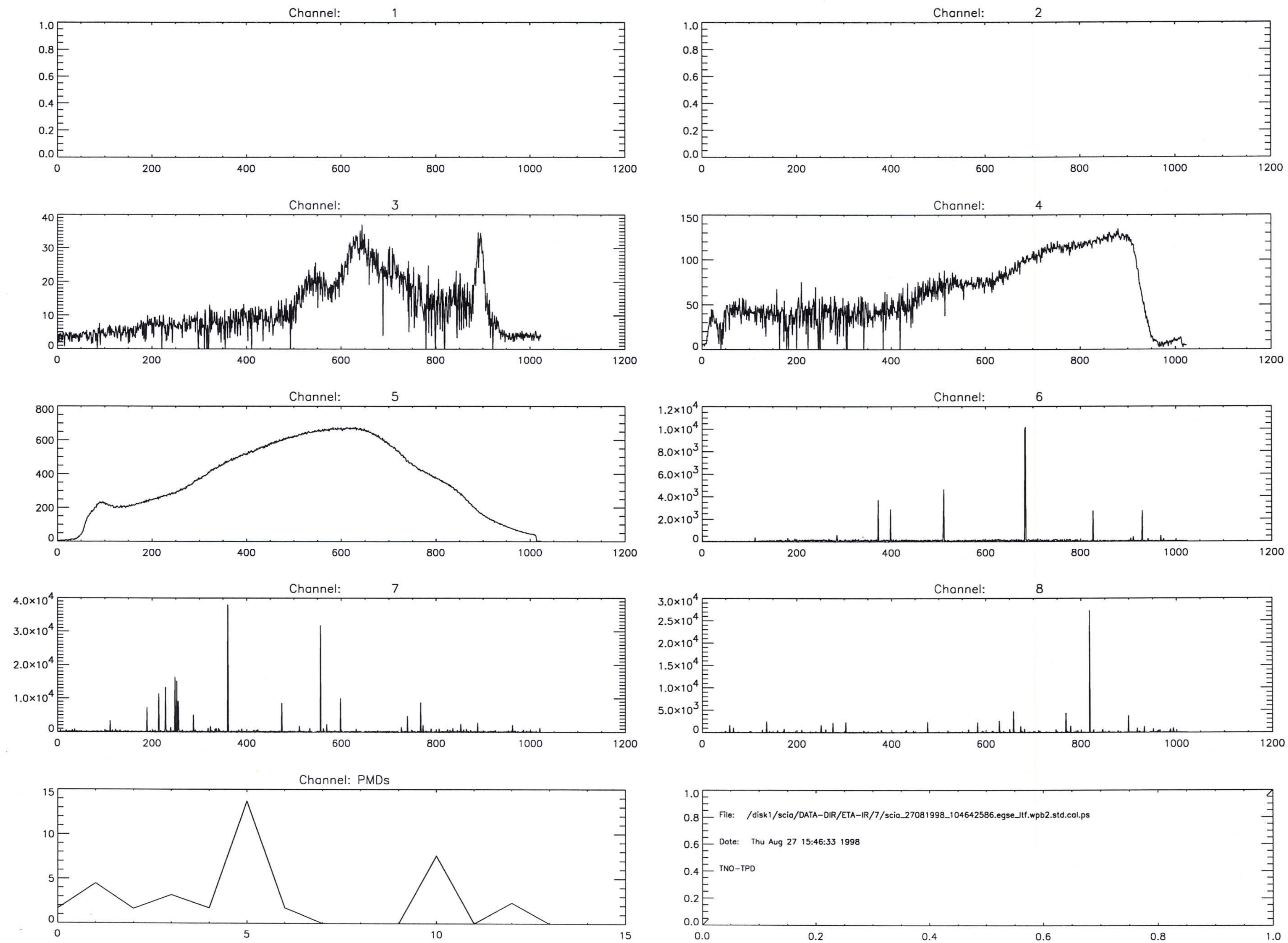
TNO-TPD



Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/ETA-IR/7/scia_27081998_104642586.egse_ltf.wpb2.rel_std.cal.ps
Date: Thu Aug 27 15:46:33 1998
TNO-TPD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Channel: 7
Channel: 8
Channel: PMDs
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Date: Thu Aug 27 15:46:33 1998
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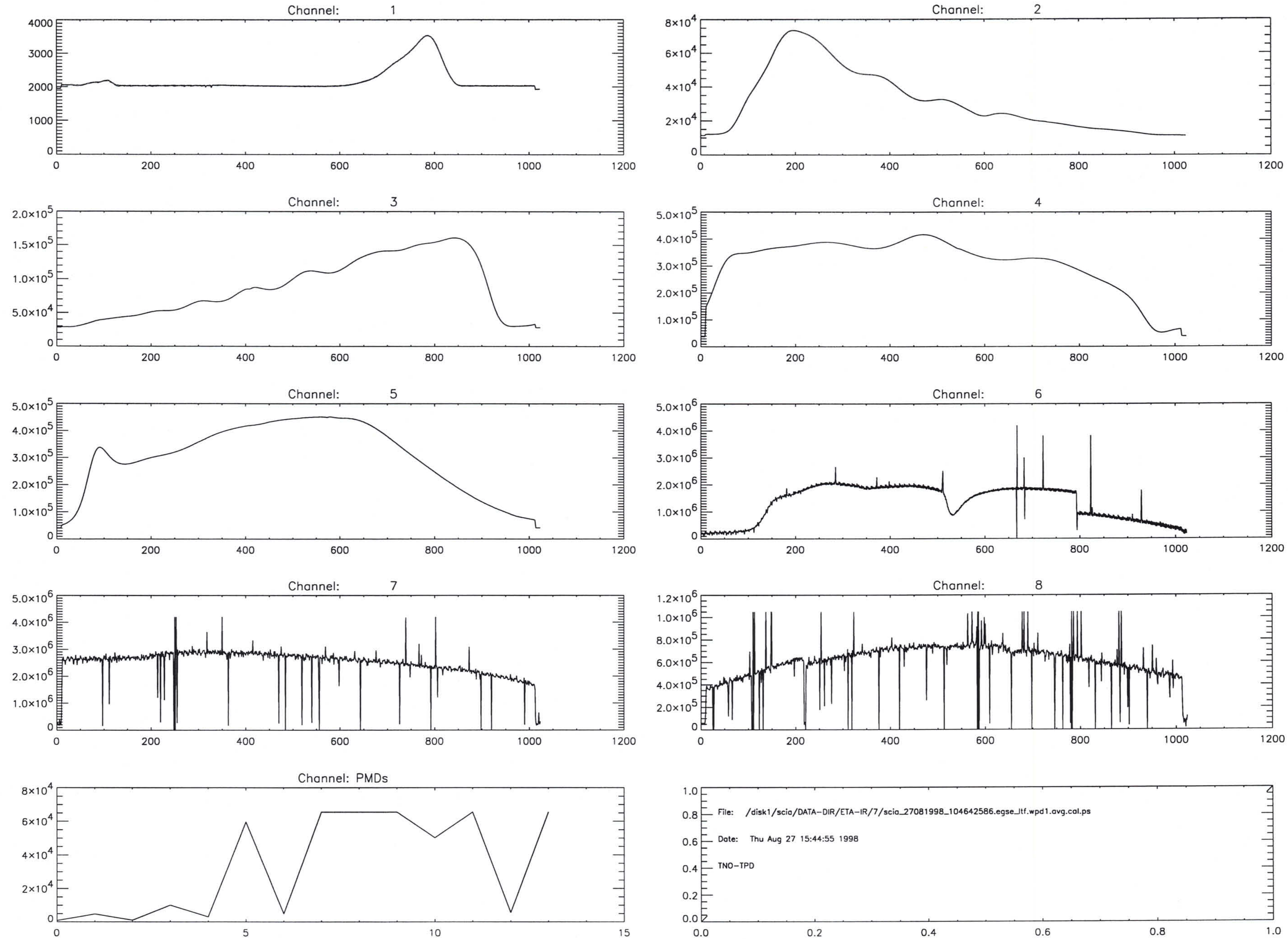

Channel: 1
Channel: 2
Channel: 3
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Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
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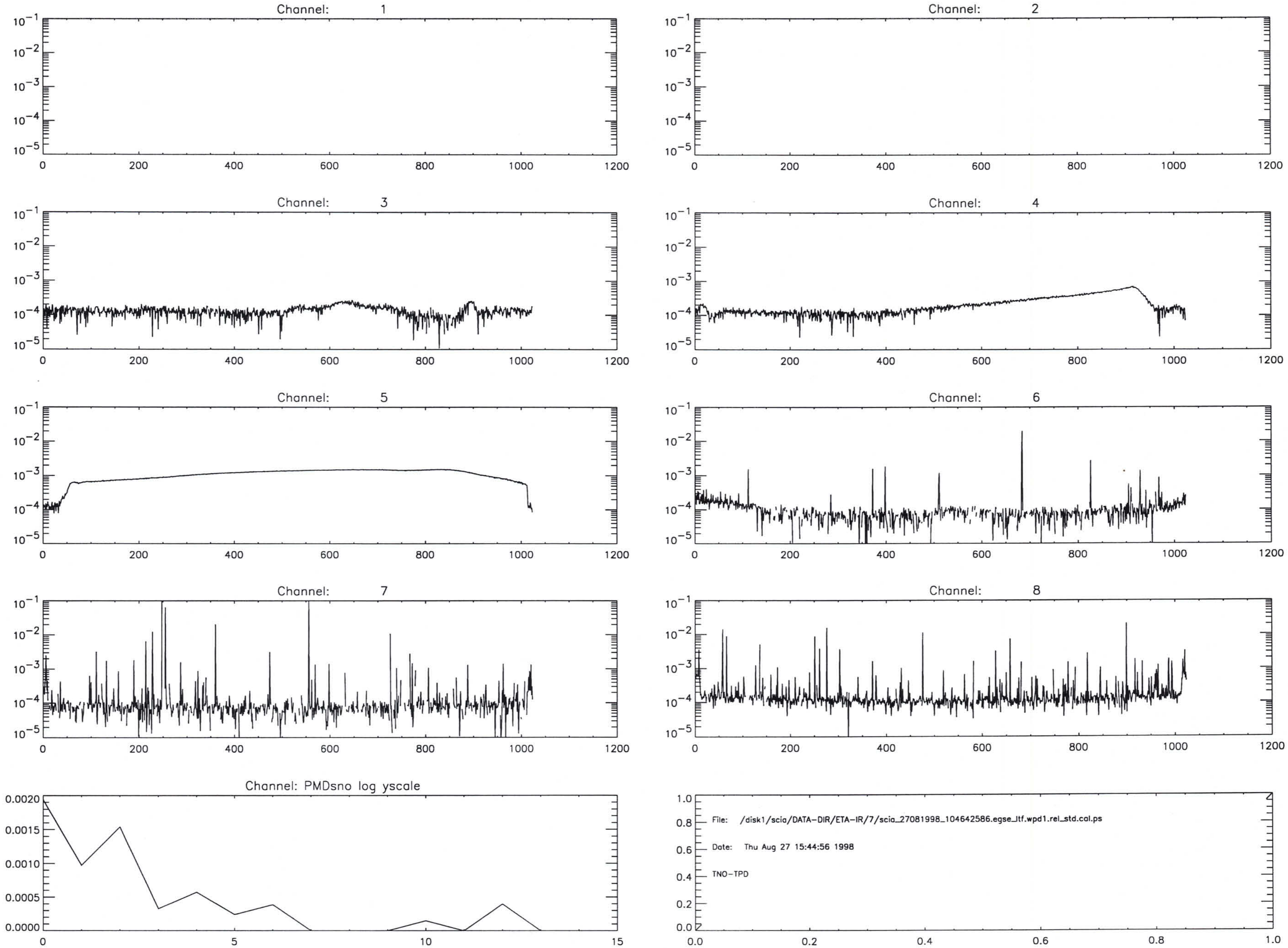
Date: Thu Aug 27 15:44:55 1998
TNO-TPD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Channel: 8
Channel: PMDsno log yscale
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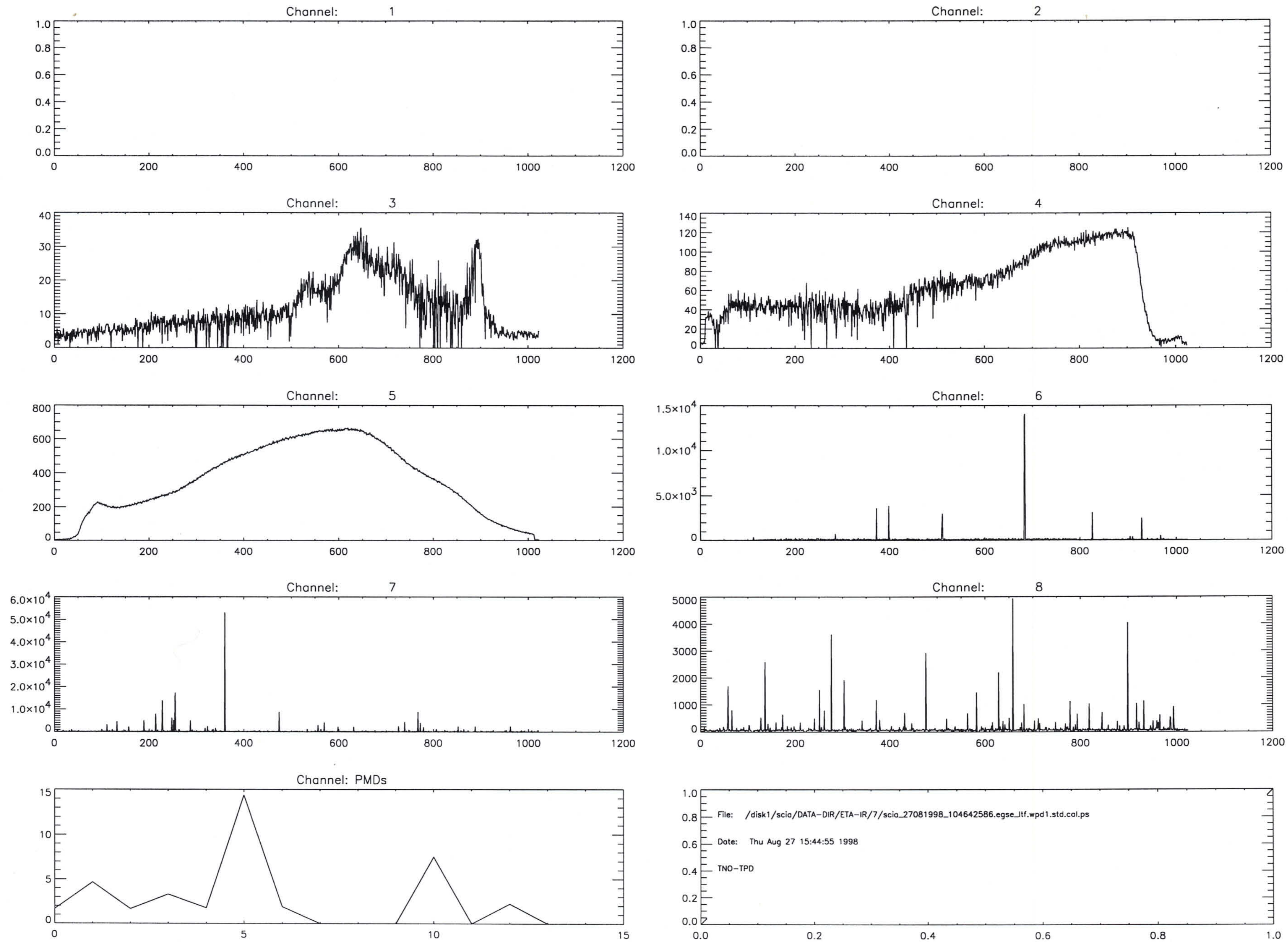
Date: Thu Aug 27 15:44:56 1998
TNO-TPD


Channel: 1
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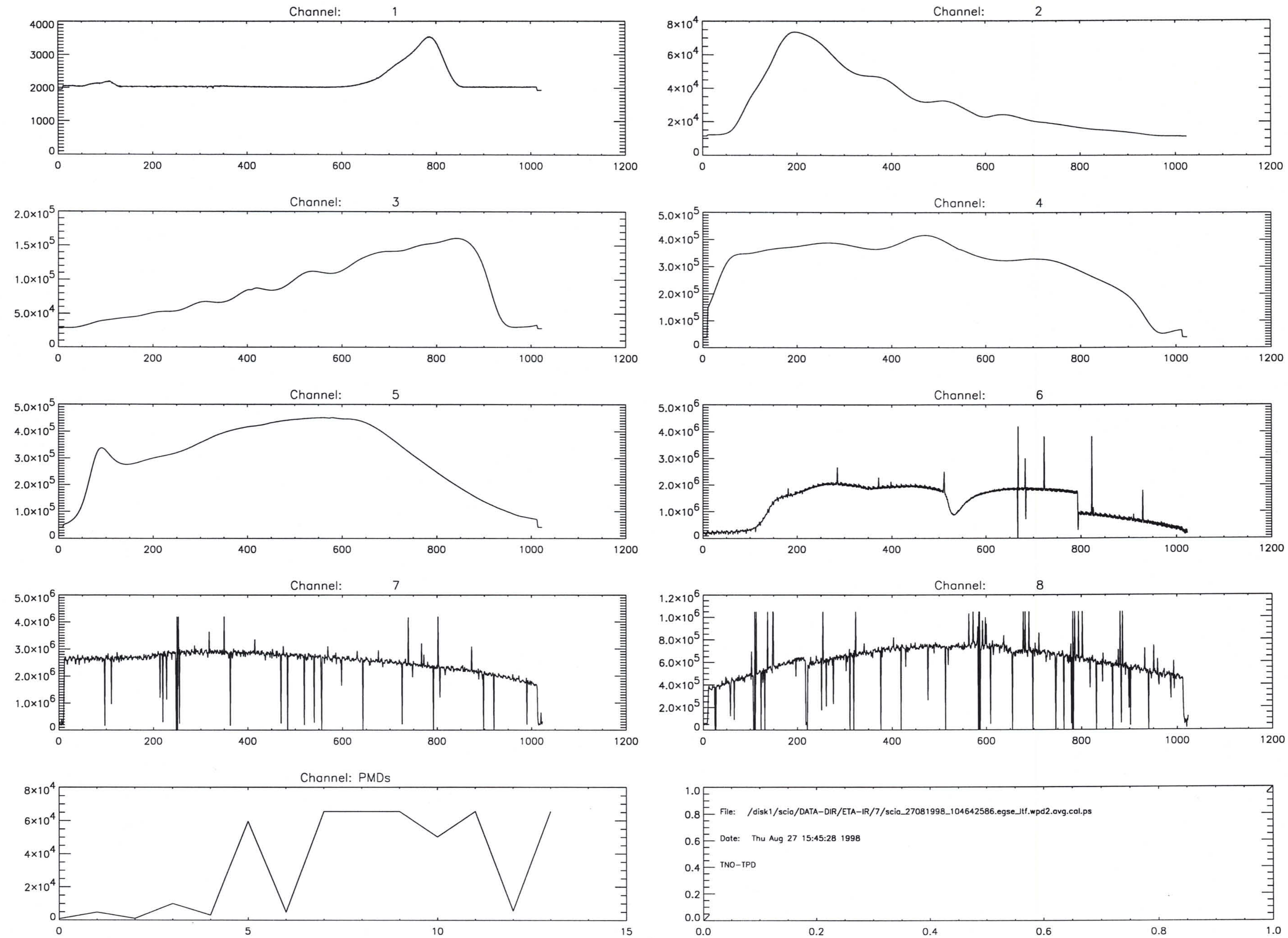
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/ETA-IR/7/scia_27081998_104642586.egse_ltf.wpd1.std.col.ps
Date: Thu Aug 27 15:44:55 1998
TNO-TPD


Channel: 1
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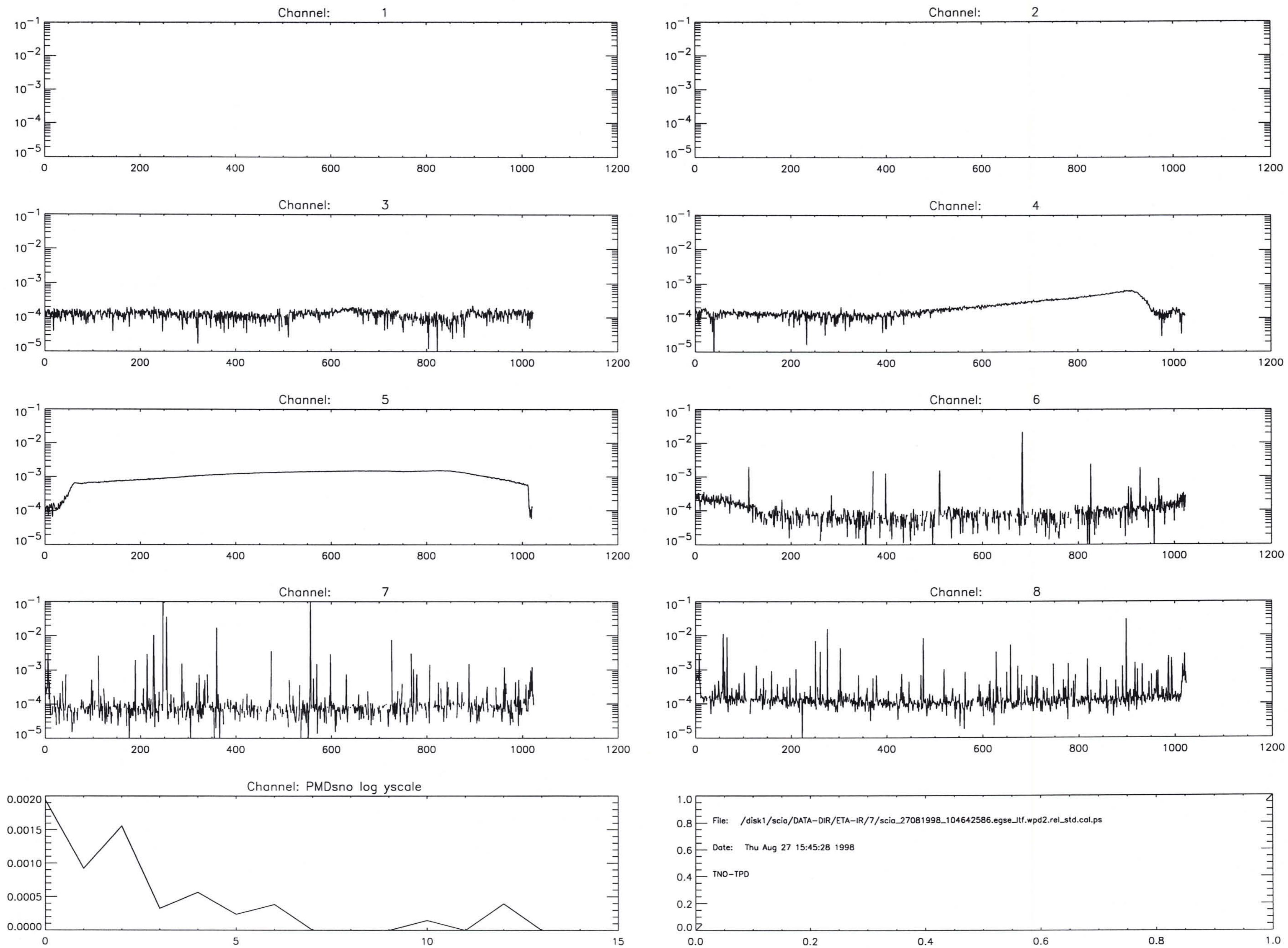
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/ETA-IR/7/scia_27081998_104642586.egse_ltf.wpd2.avg.cal.ps
Date: Thu Aug 27 15:45:28 1998
TNO-TPD


Channel: 1
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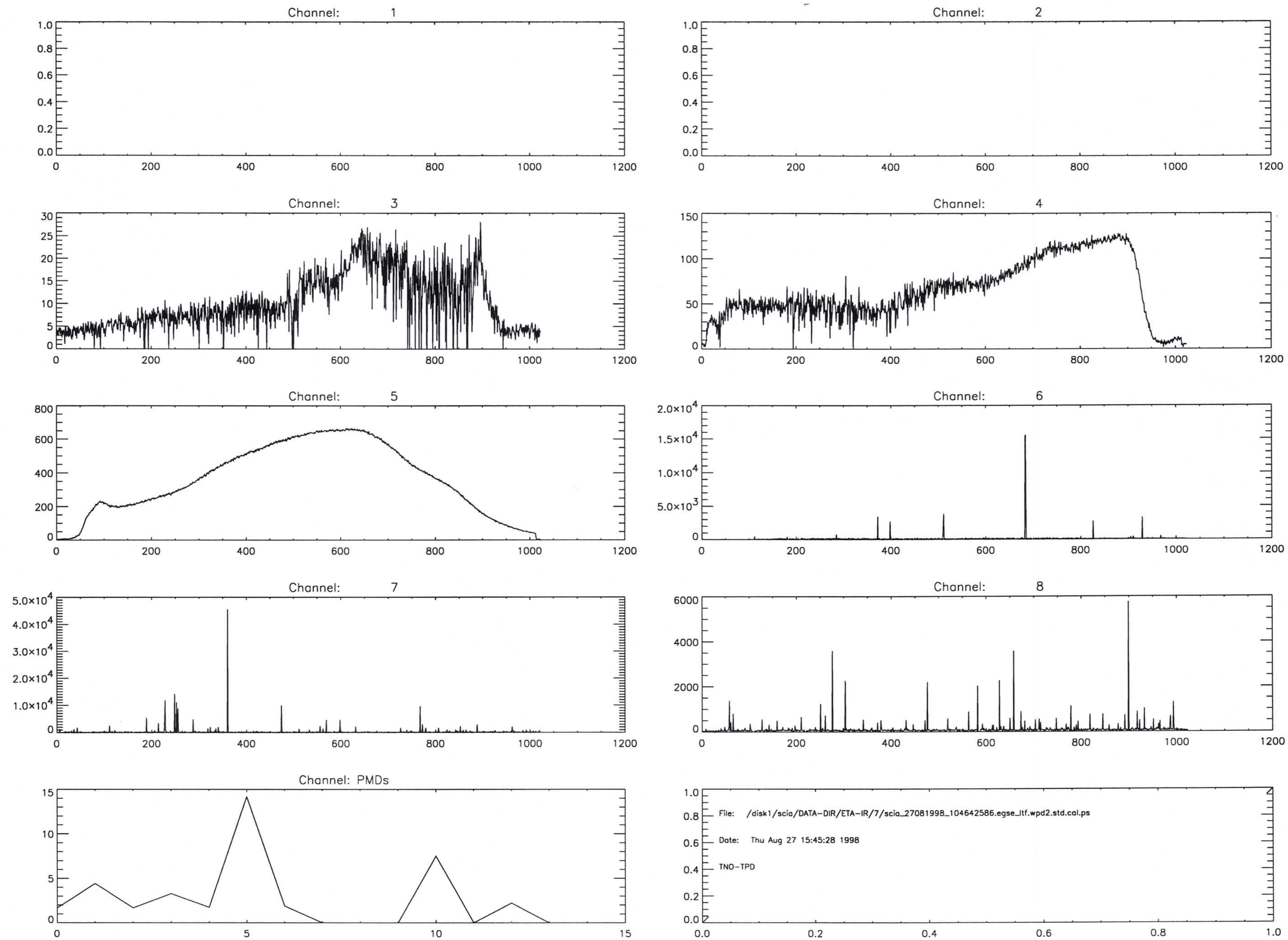
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/ETA-IR/7/scia_27081998_104642586.egse_ltf.wpd2.rel_std.cal.ps
Date: Thu Aug 27 15:45:28 1998
TNO-TPD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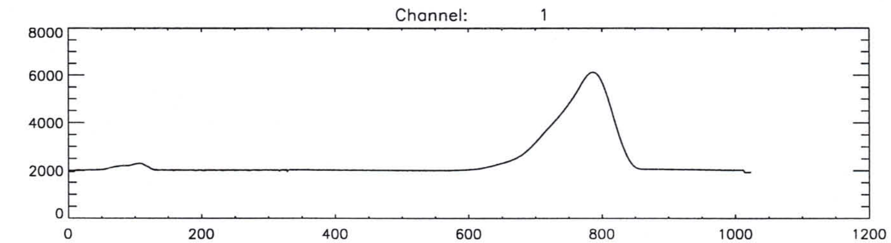
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/ETA-IR/7/scia_27081998_104642586.egse_ltf.wpd2.std.cal.ps
Date: Thu Aug 27 15:45:28 1998
TNO-TPD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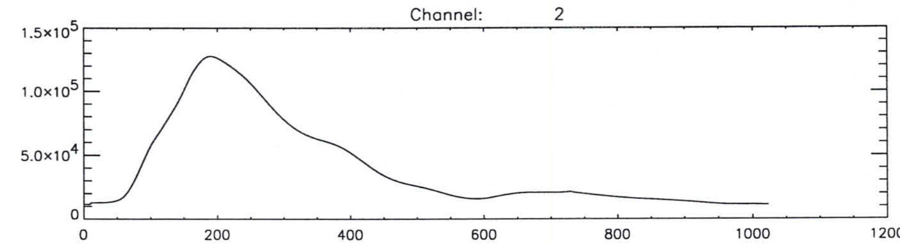
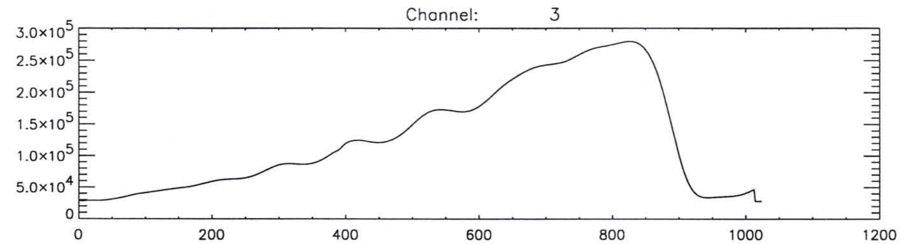
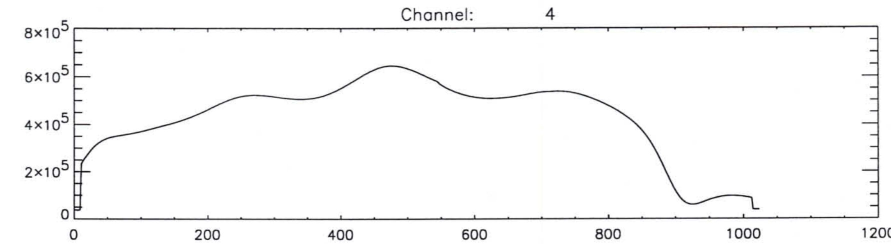
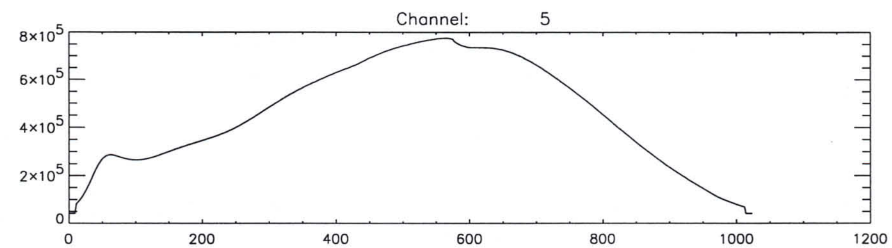

Channel: 2


Channel: 3


Channel: 4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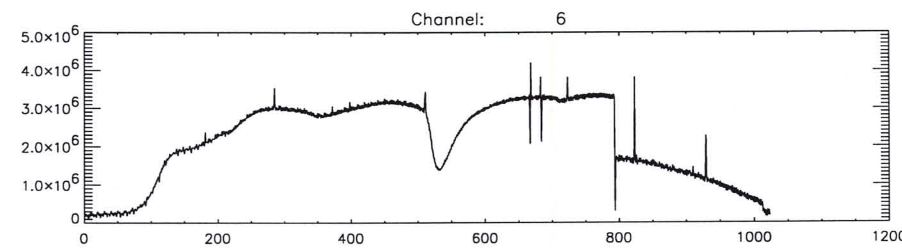
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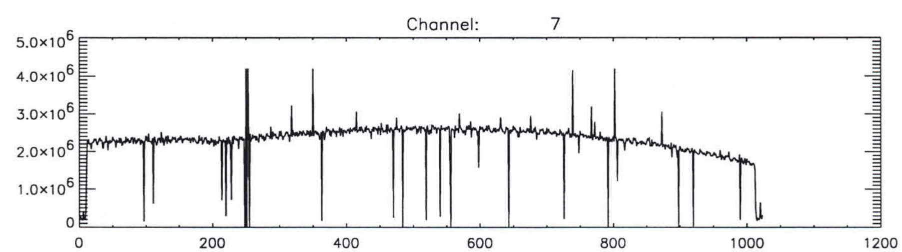
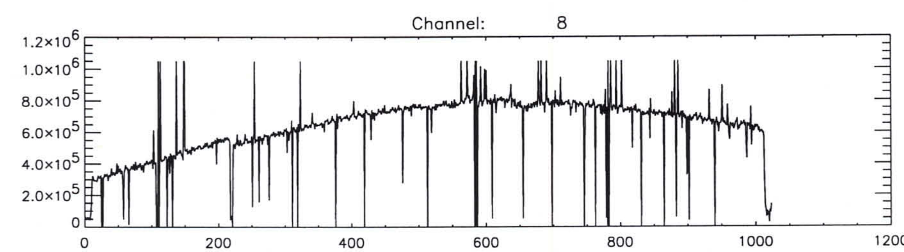
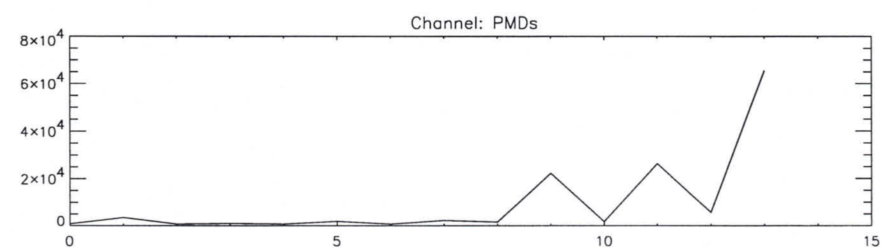
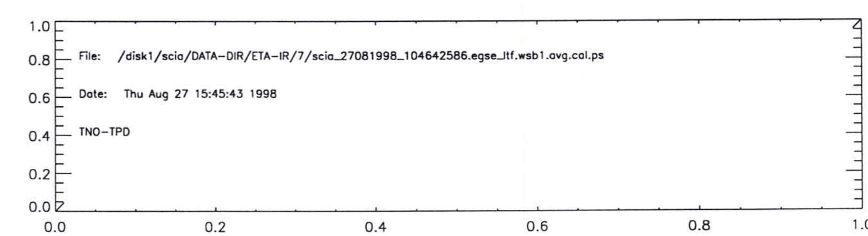

Channel: 7


Channel: 8


Channel: PMDs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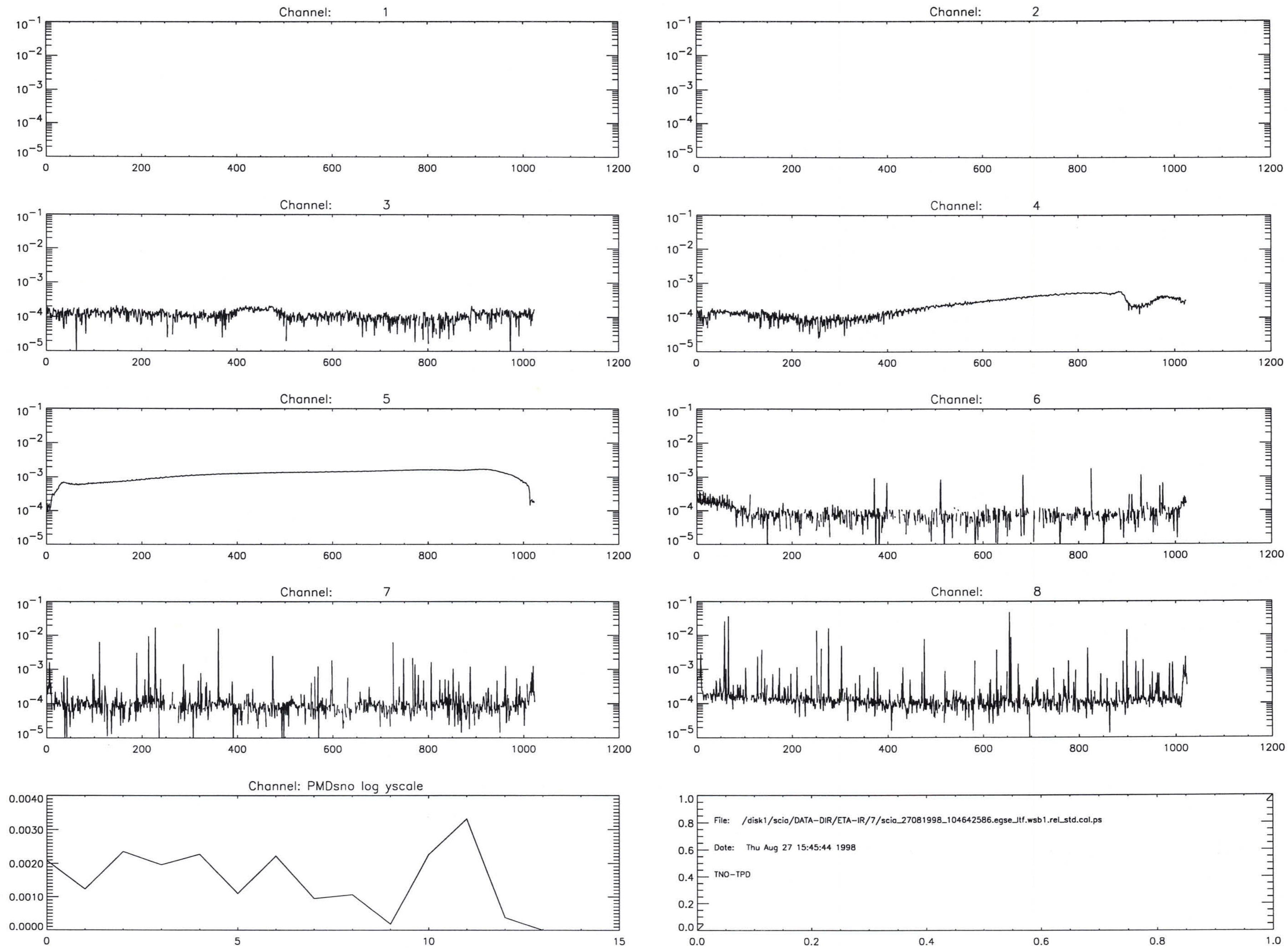
Date: Thu Aug 27 15:45:43 1998
TNO-TPD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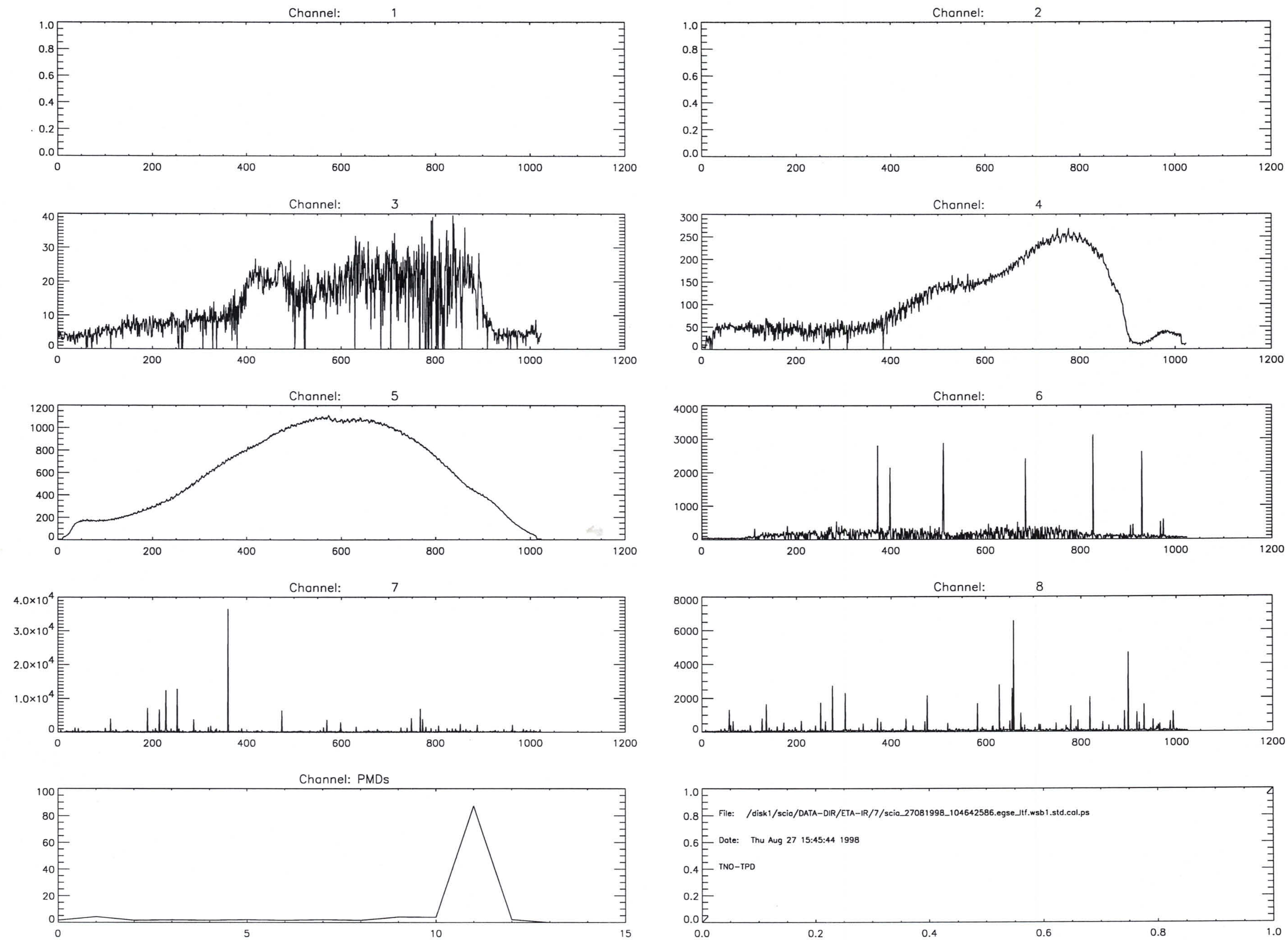
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/ETA-IR/7/scia_27081998_104642586.egse_ltf.wsb1.rel_std.cal.ps
Date: Thu Aug 27 15:45:44 1998
TNO-TPD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Channel: 7
Channel: 8
Channel: PMDs
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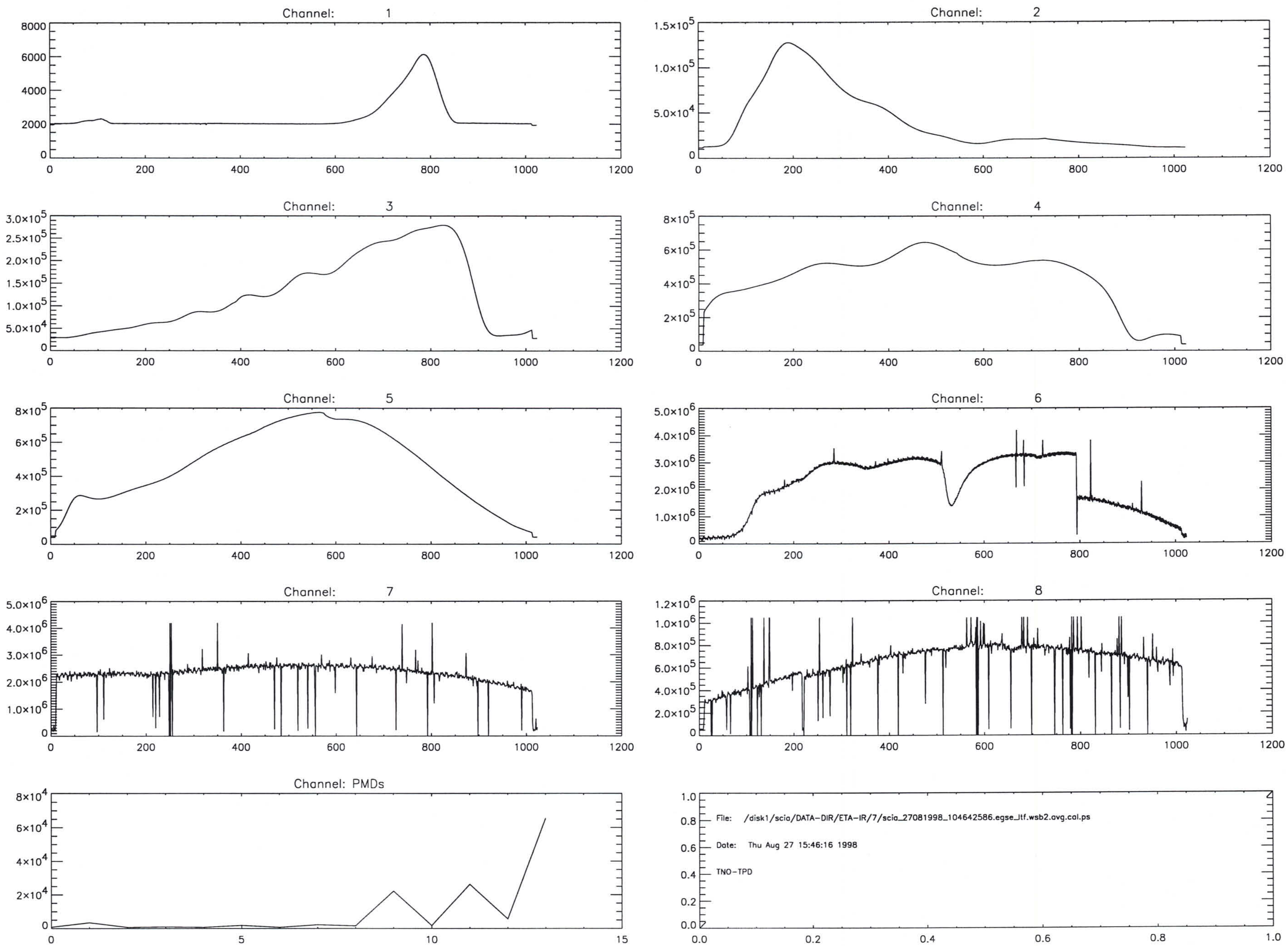
Date: Thu Aug 27 15:45:44 1998
TNO-TPD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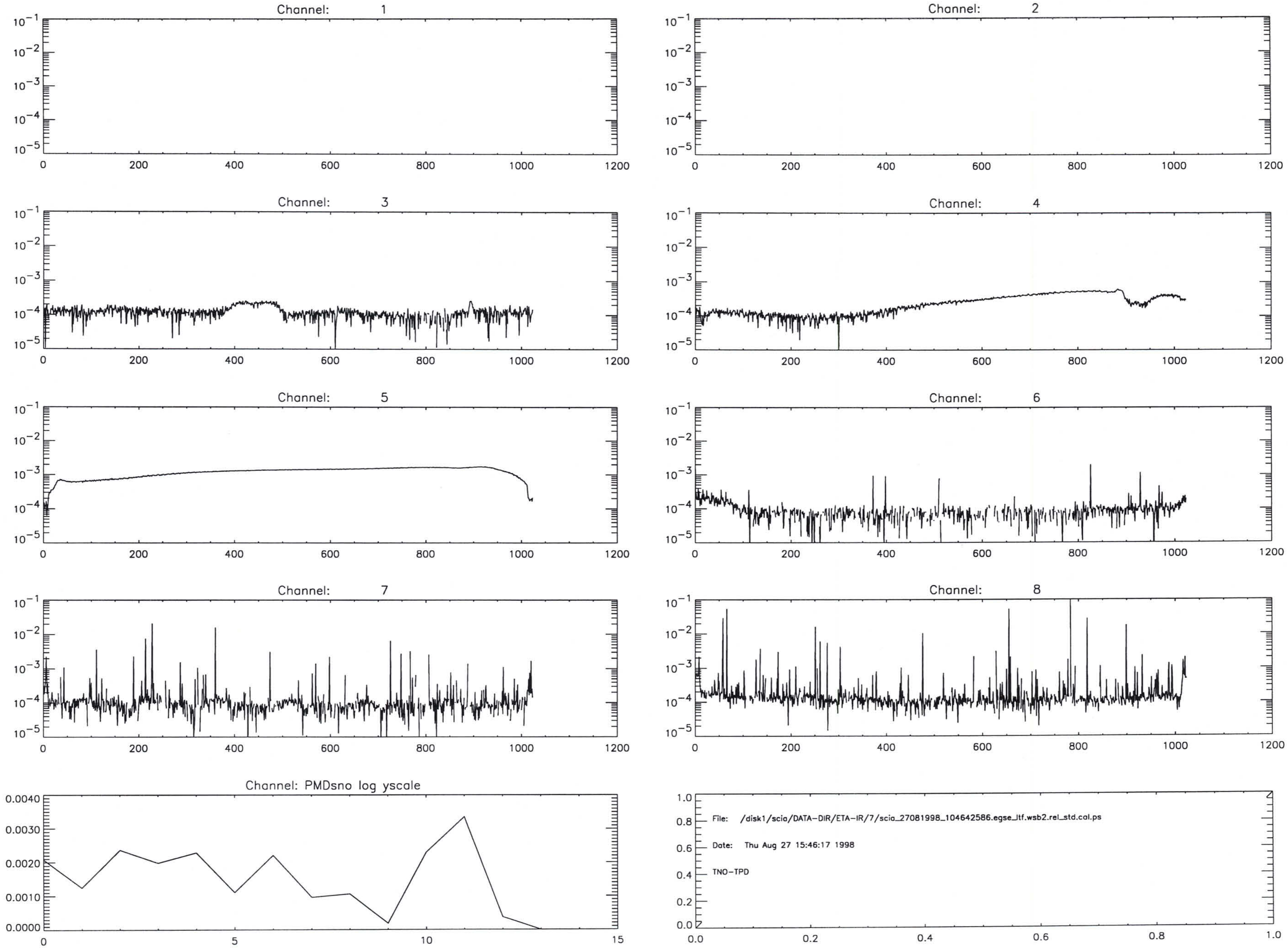
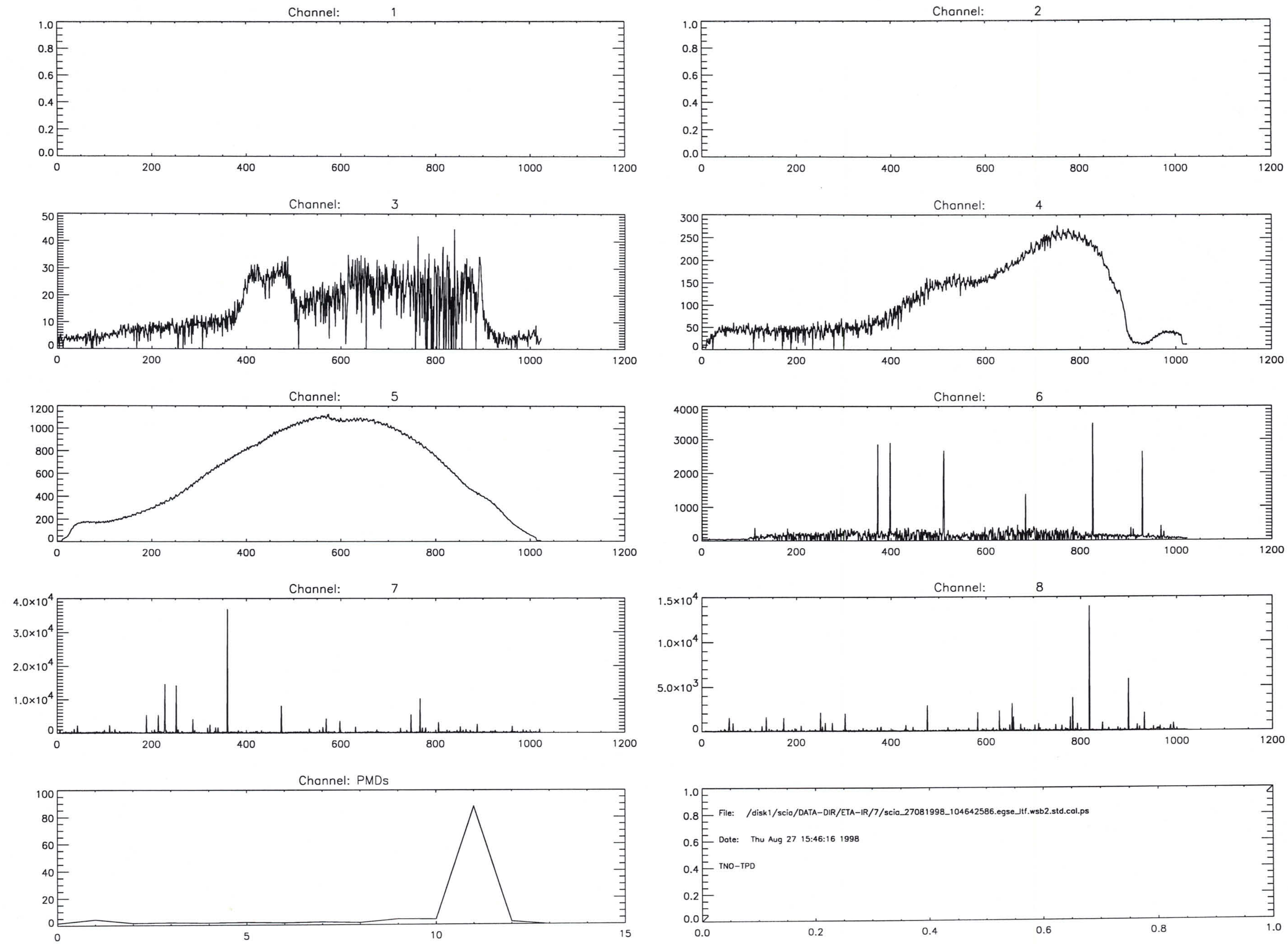
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/ETA-IR/7/scia_27081998_104642586.egse_ltf.wsb2.avg.cal.ps
Date: Thu Aug 27 15:46:16 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/ETA-IR/7/scia_27081998_104642586.egse_ltf.wsb2.rel_std.col.ps
Date: Thu Aug 27 15:46:17 1998
TNO-TPD


Channel: 1
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Channel: 7
Channel: 8
Channel: PMDs
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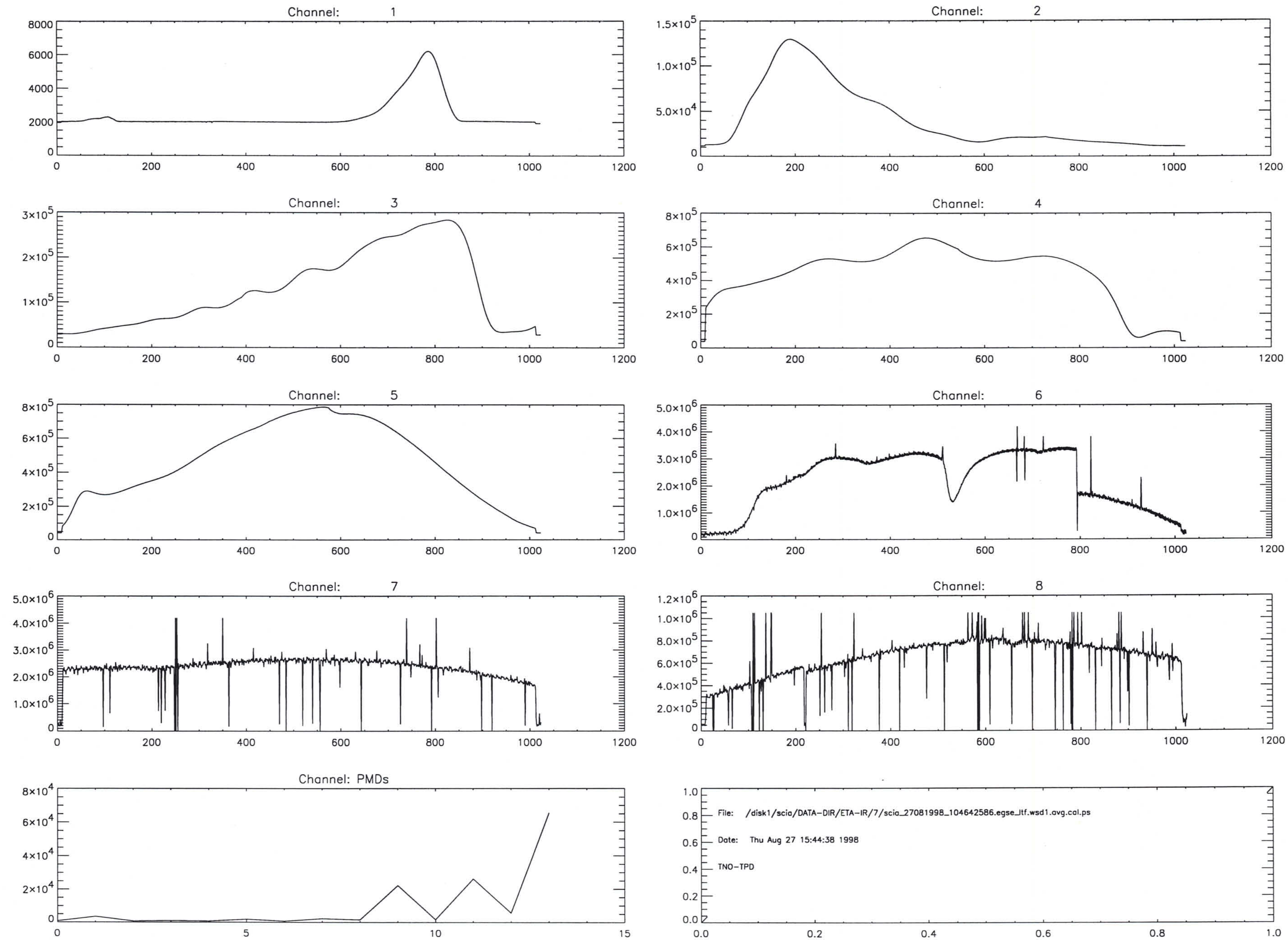
Date: Thu Aug 27 15:46:16 1998
TNO-TPD


Channel: 1
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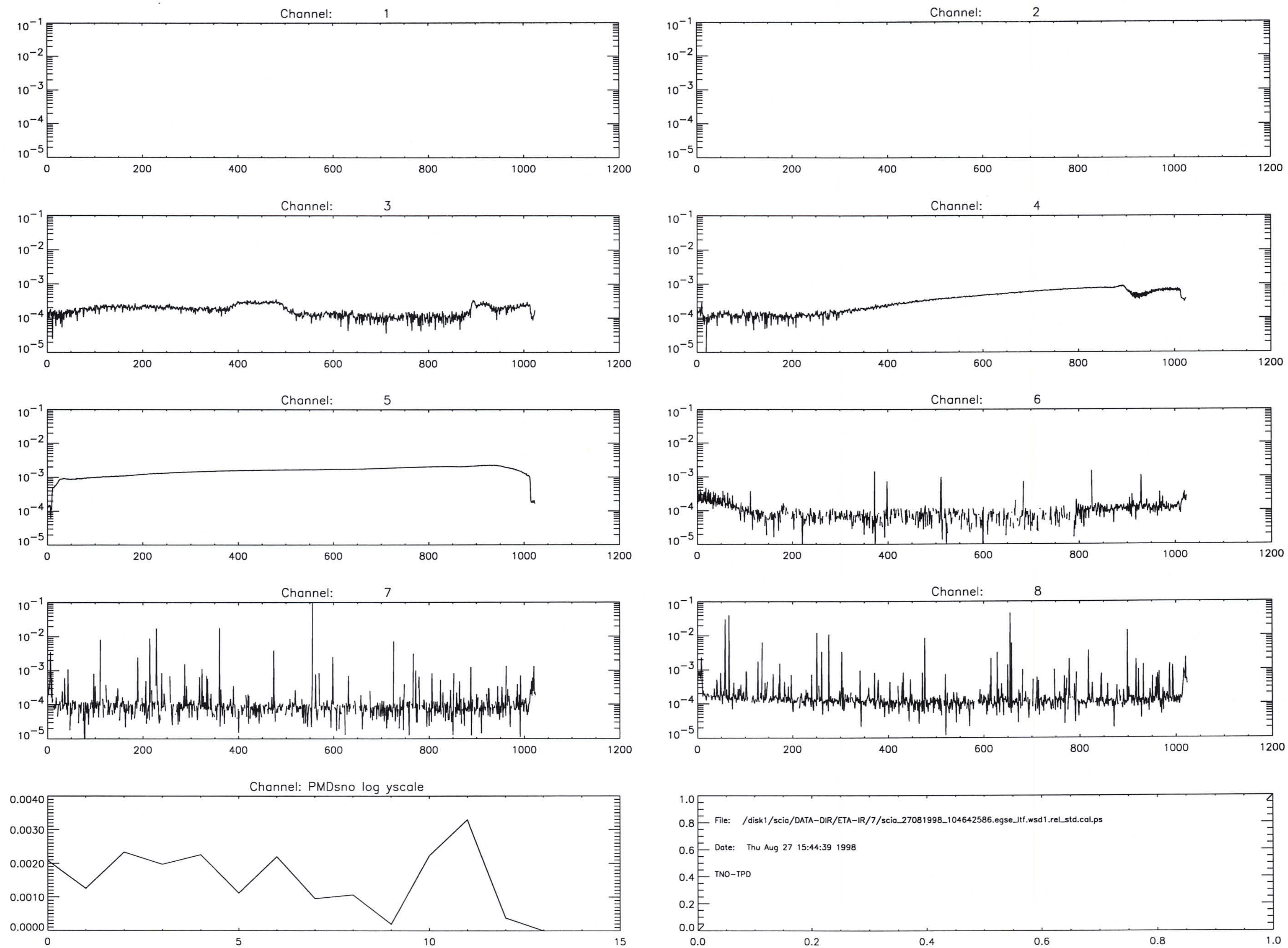
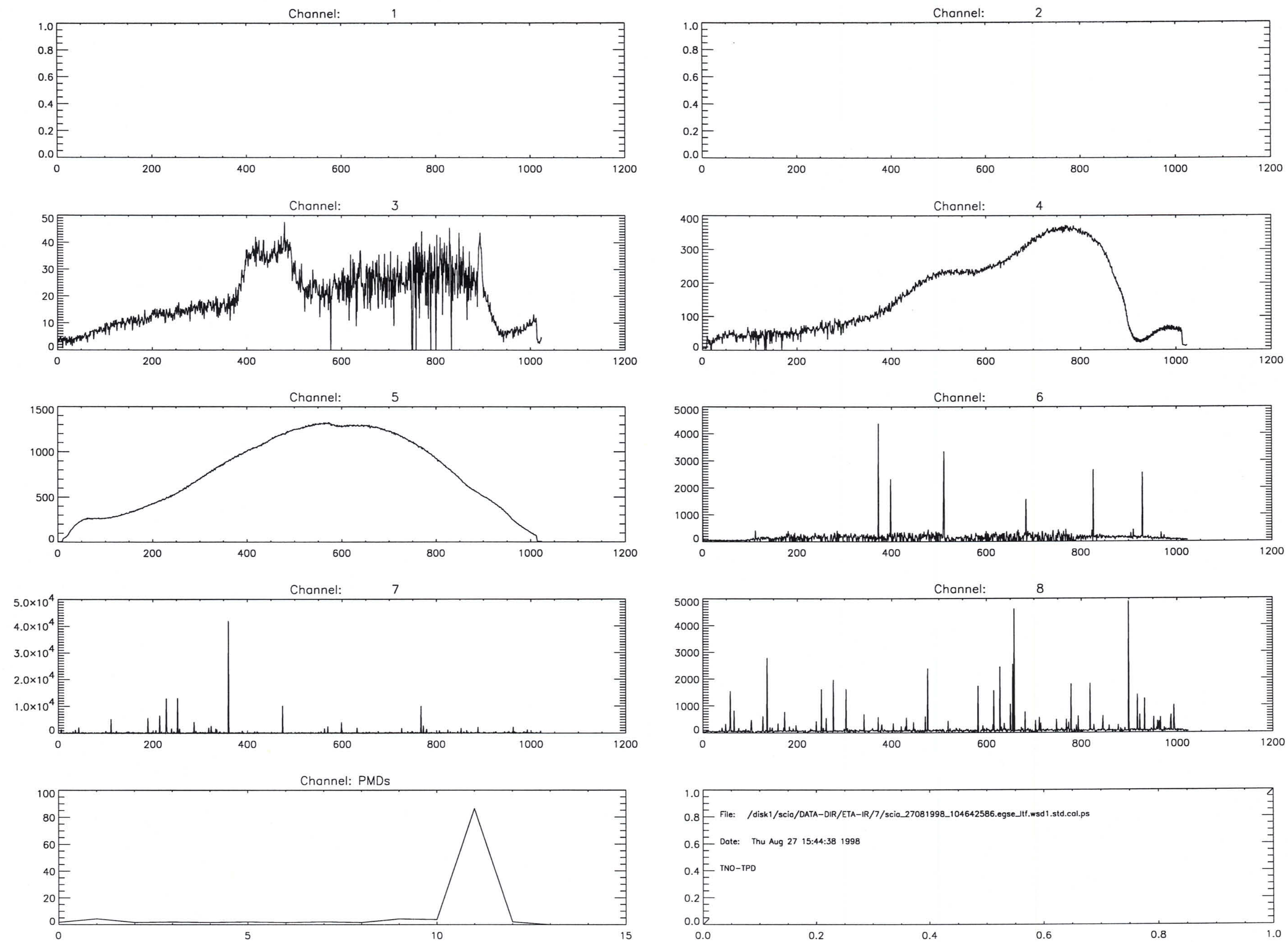
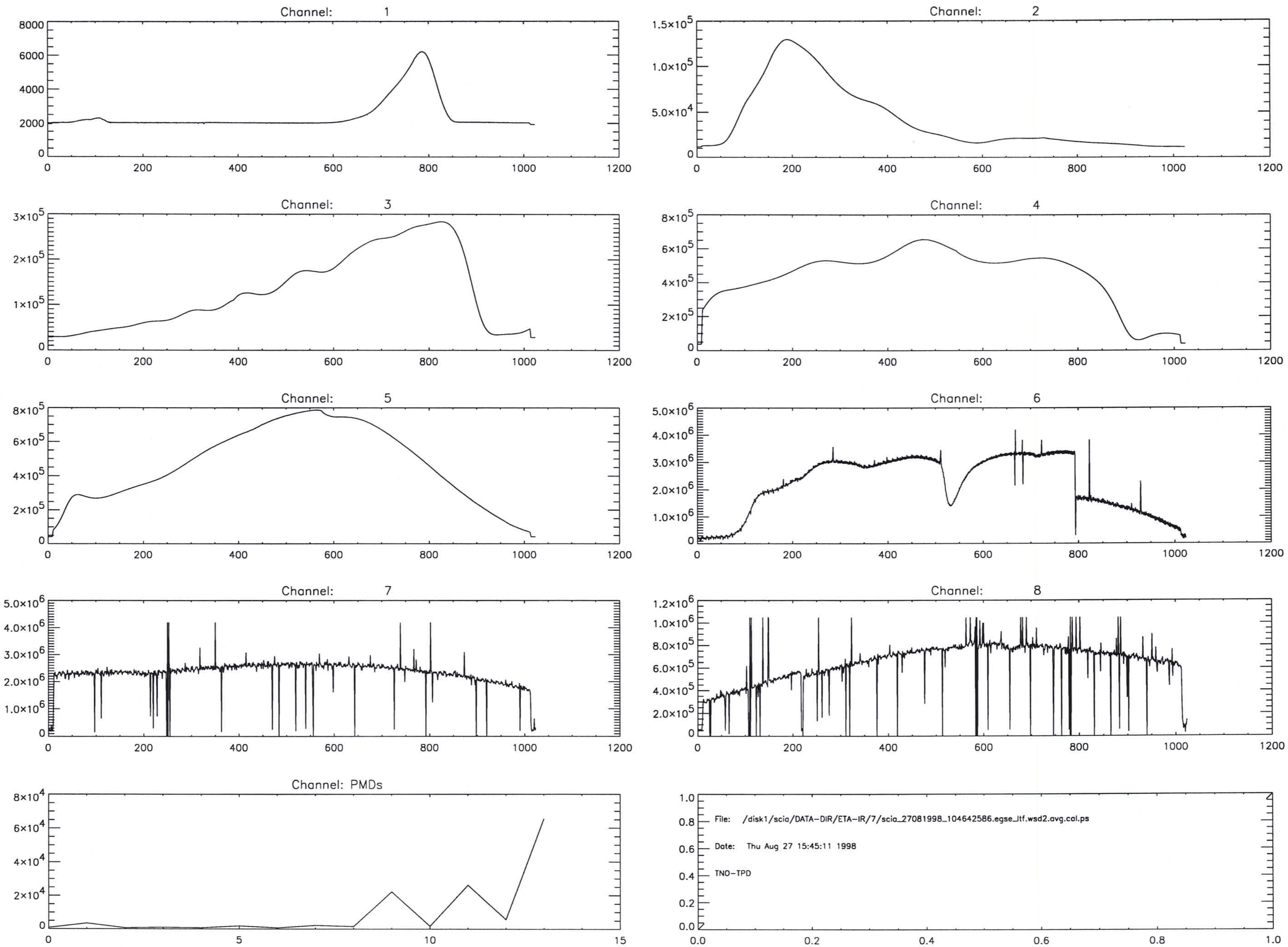
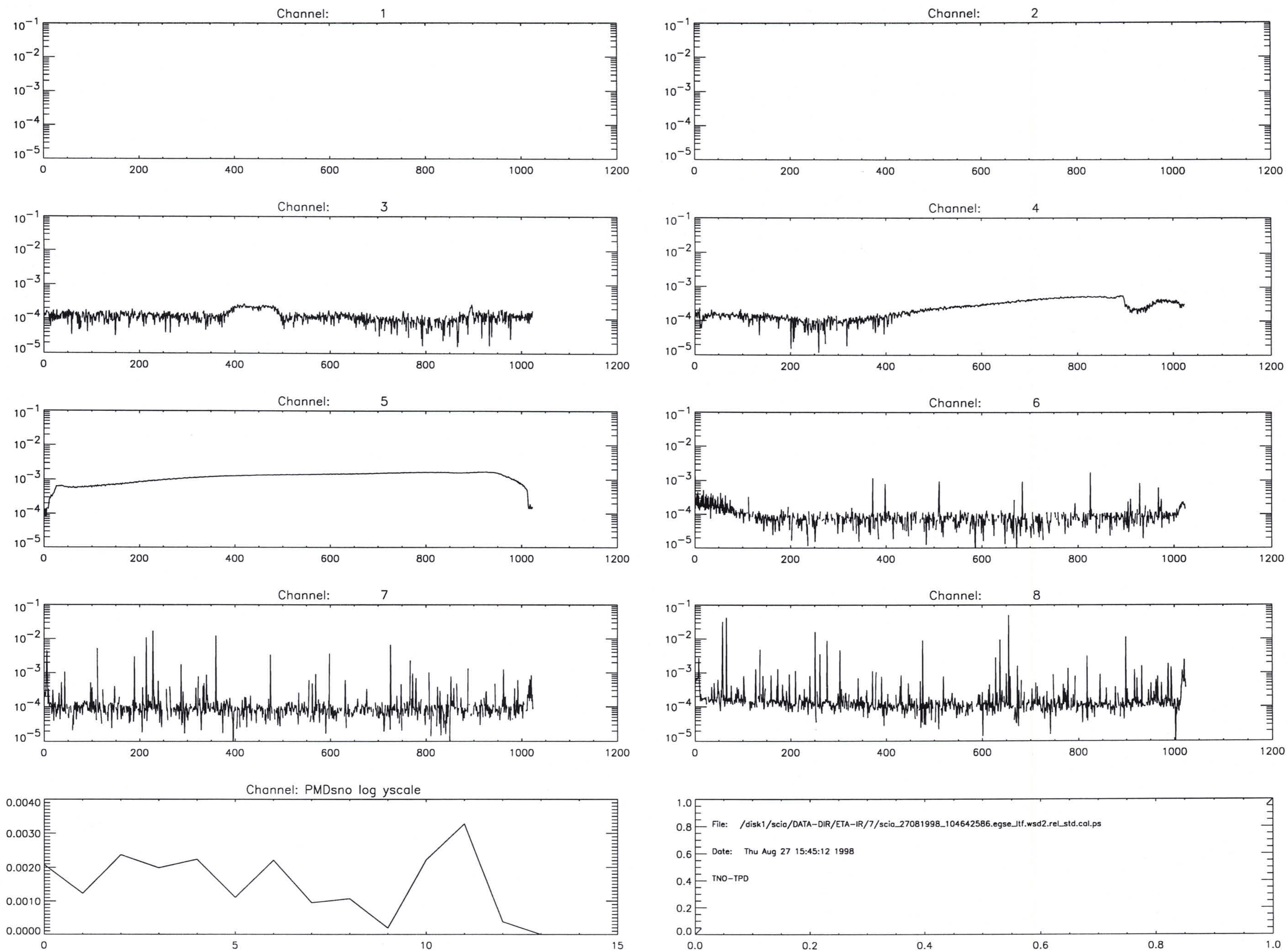
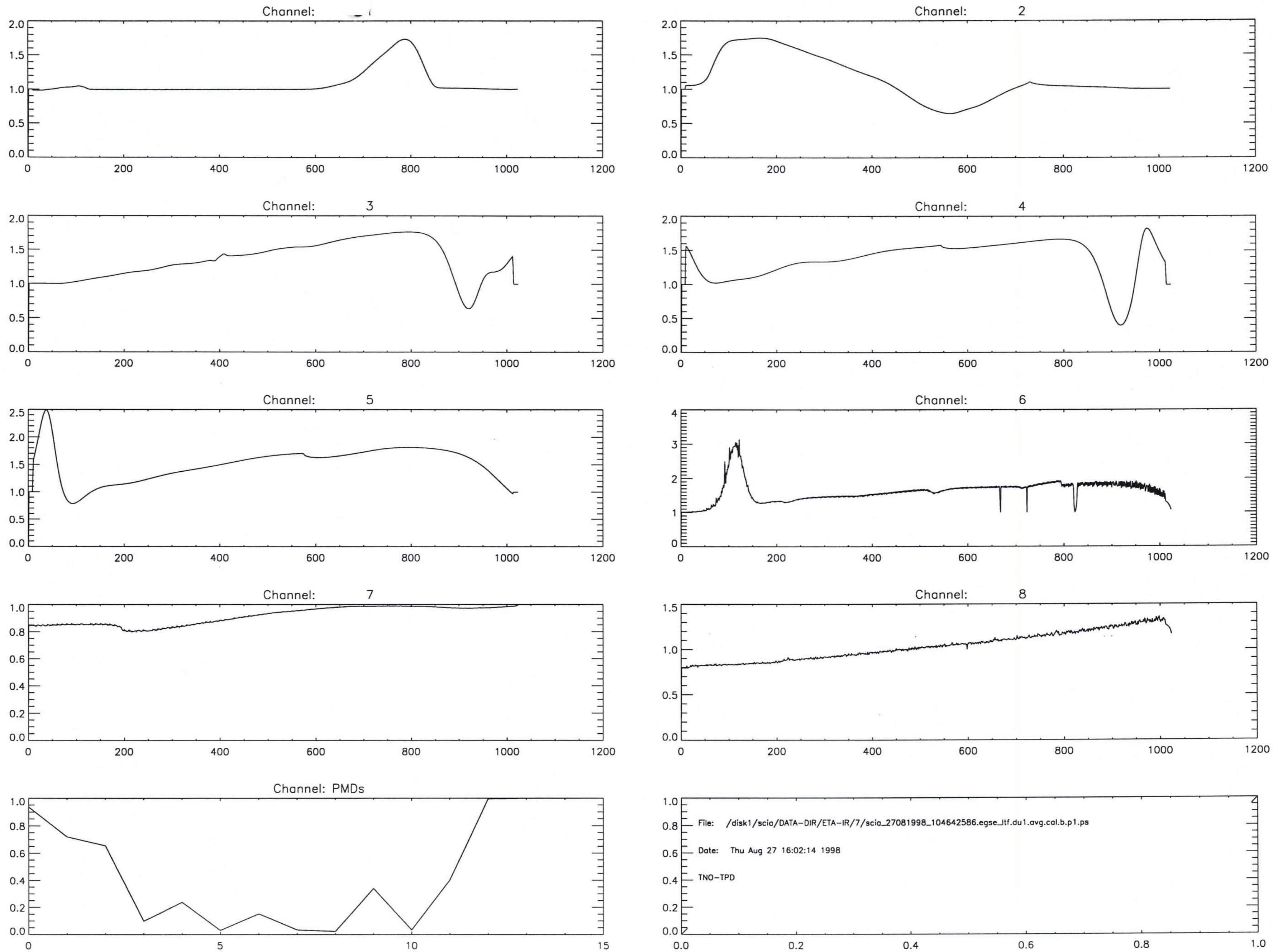
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/ETA-IR/7/scia_27081998_104642586.egse_ltf.wsd1.avg.cal.ps
Date: Thu Aug 27 15:44:38 1998
TNO-TPD

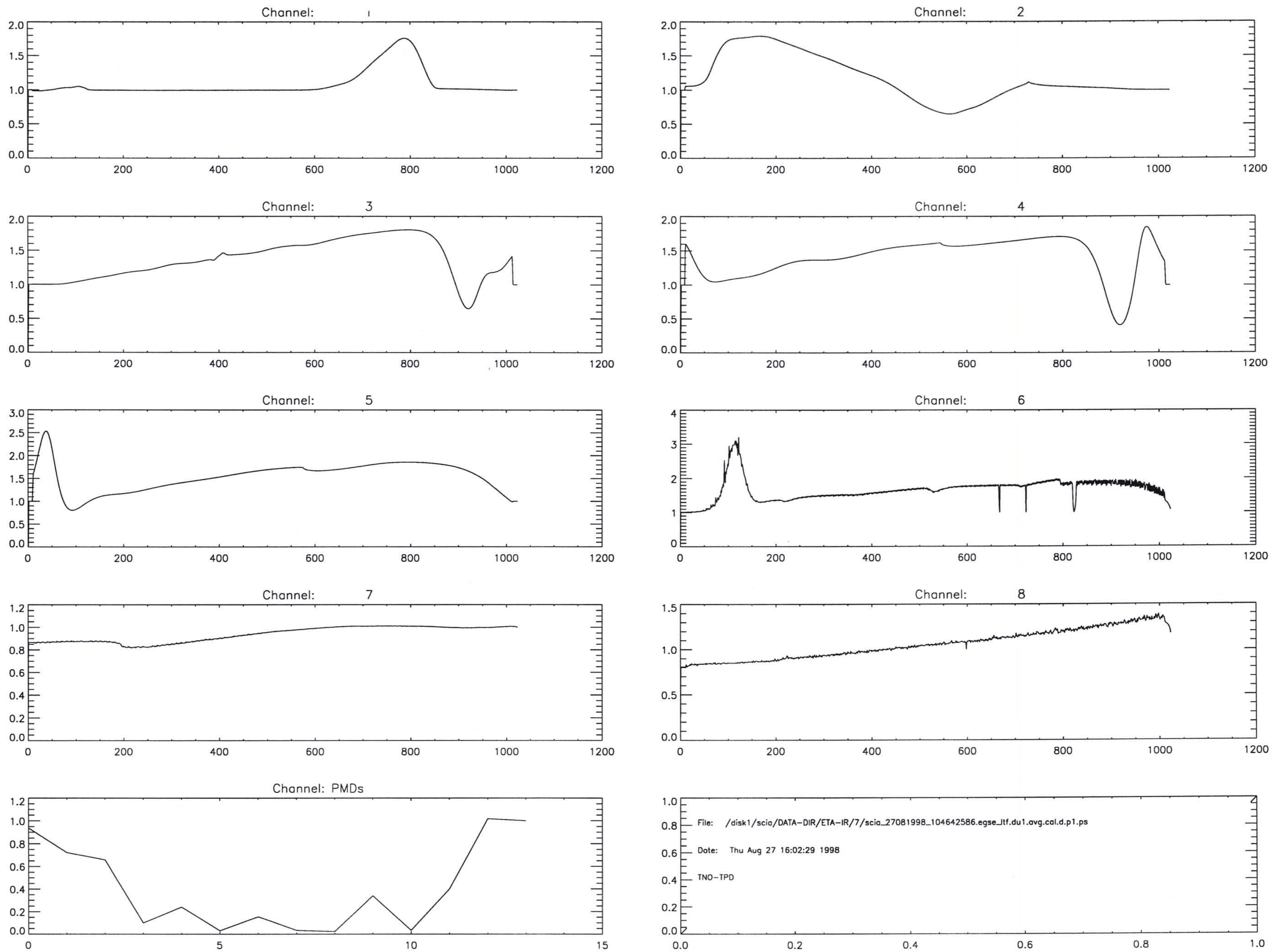

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/ETA-IR/7/scia_27081998_104642586.egse_ltf.wsd1.rel_std.cal.ps
Date: Thu Aug 27 15:44:39 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/ETA-IR/7/scia_27081998_104642586.egse_ltf.wsd1.std.cal.ps
Date: Thu Aug 27 15:44:38 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/ETA-IR/7/scia_27081998_104642586.egse_ltf.wsd2.avg.cal.ps
Date: Thu Aug 27 15:45:11 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/ETA-IR/7/scia_27081998_104642586.egse_ltf.wsd2.rel_std.cal.ps
Date: Thu Aug 27 15:45:12 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/ETA-IR/7/scia_27081998_104642586.egse_itf.du1.avg.cal.b.p1.ps
Date: Thu Aug 27 16:02:14 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scio/DATA-DIR/ETA-IR/7/scio_27081998_104642586.egse_ltf.du1.avg.cal.d.p1.ps
Date: Thu Aug 27 16:02:29 1998
TNO-TPD

```
Version:  0.1
Input files:
 /disk1/scia/DATA-DIR/ETA-IR/7/scia_27081998_104642586.egse_ltf.du1.avg.cal
 /disk1/scia/DATA-DIR/ETA-IR/7/scia_27081998_104642586.egse_ltf.wpb1.avg.cal
 /disk1/scia/DATA-DIR/ETA-IR/7/scia_27081998_104642586.egse_ltf.wpb2.avg.cal
 /disk1/scia/DATA-DIR/ETA-IR/7/scia_27081998_104642586.egse_ltf.wsb1.avg.cal
 /disk1/scia/DATA-DIR/ETA-IR/7/scia_27081998_104642586.egse_ltf.wsb2.avg.cal
Processing:
Computation of Eta (do_single_eta)
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/latest/ppg.cal
ETALON correction filename used:
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:
Processing time: Thu Aug 27 16:02:14 1998
Output file name:
/disk1/scia/DATA-DIR/ETA-IR/7/scia_27081998_104642586.egse_ltf.du1.avg.cal.b.p
```

```
Version:  0.1
Input files:
 /disk1/scia/DATA-DIR/ETA-IR/7/scia_27081998_104642586.egse_ltf.du1.avg.cal
 /disk1/scia/DATA-DIR/ETA-IR/7/scia_27081998_104642586.egse_ltf.wpd1.avg.cal
 /disk1/scia/DATA-DIR/ETA-IR/7/scia_27081998_104642586.egse_ltf.wpd2.avg.cal
 /disk1/scia/DATA-DIR/ETA-IR/7/scia_27081998_104642586.egse_ltf.wsd1.avg.cal
 /disk1/scia/DATA-DIR/ETA-IR/7/scia_27081998_104642586.egse_ltf.wsd2.avg.cal
Processing:
Computation of Eta (do_single_eta)
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/latest/ppg.cal
ETALON correction filename used:
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:
Processing time: Thu Aug 27 16:02:28 1998
Output file name:
/disk1/scia/DATA-DIR/ETA-IR/7/scia_27081998_104642586.egse_ltf.du1.avg.cal.d.p
```

```
time       = Thu Aug 27 15:44:23 1998
batch      = du1
Start TOD = Thu 27-Aug-98 10:46:44
End   TOD = Thu 27-Aug-98 10:52:43
Processing= computation of average, standard dev. and rel.standard dev.
```

```
time       = Thu Aug 27 15:47:02 1998
batch      = du2
Start TOD = Thu 27-Aug-98 11:18:07
End   TOD = Thu 27-Aug-98 11:23:14
Processing= computation of average, standard dev. and rel.standard dev.
```

```
time       = Thu Aug 27 15:46:01 1998
batch      = wpb1
Start TOD = Thu 27-Aug-98 11:08:42
End   TOD = Thu 27-Aug-98 11:11:54
Processing= computation of average, standard dev. and rel.standard dev.
```

```
time        = Thu Aug 27 15:46:33 1998
batch       = wpb2
Start TOD = Thu 27-Aug-98 11:15:06
End   TOD = Thu 27-Aug-98 11:18:07
Processing= computation of average, standard dev. and rel.standard dev.
```

```
time       = Thu Aug 27 15:44:56 1998
batch      = wpd1
Start TOD = Thu 27-Aug-98 10:55:54
End   TOD = Thu 27-Aug-98 10:59:07
Processing= computation of average, standard dev. and rel.standard dev.
```

```
time       = Thu Aug 27 15:45:28 1998
batch      = wpd2
Start TOD = Thu 27-Aug-98 11:02:19
End   TOD = Thu 27-Aug-98 11:05:31
Processing= computation of average, standard dev. and rel.standard dev.
```

```
time       = Thu Aug 27 15:45:44 1998
batch      = wsb1
Start TOD = Thu 27-Aug-98 11:05:31
End   TOD = Thu 27-Aug-98 11:08:42
Processing= computation of average, standard dev. and rel.standard dev.
```

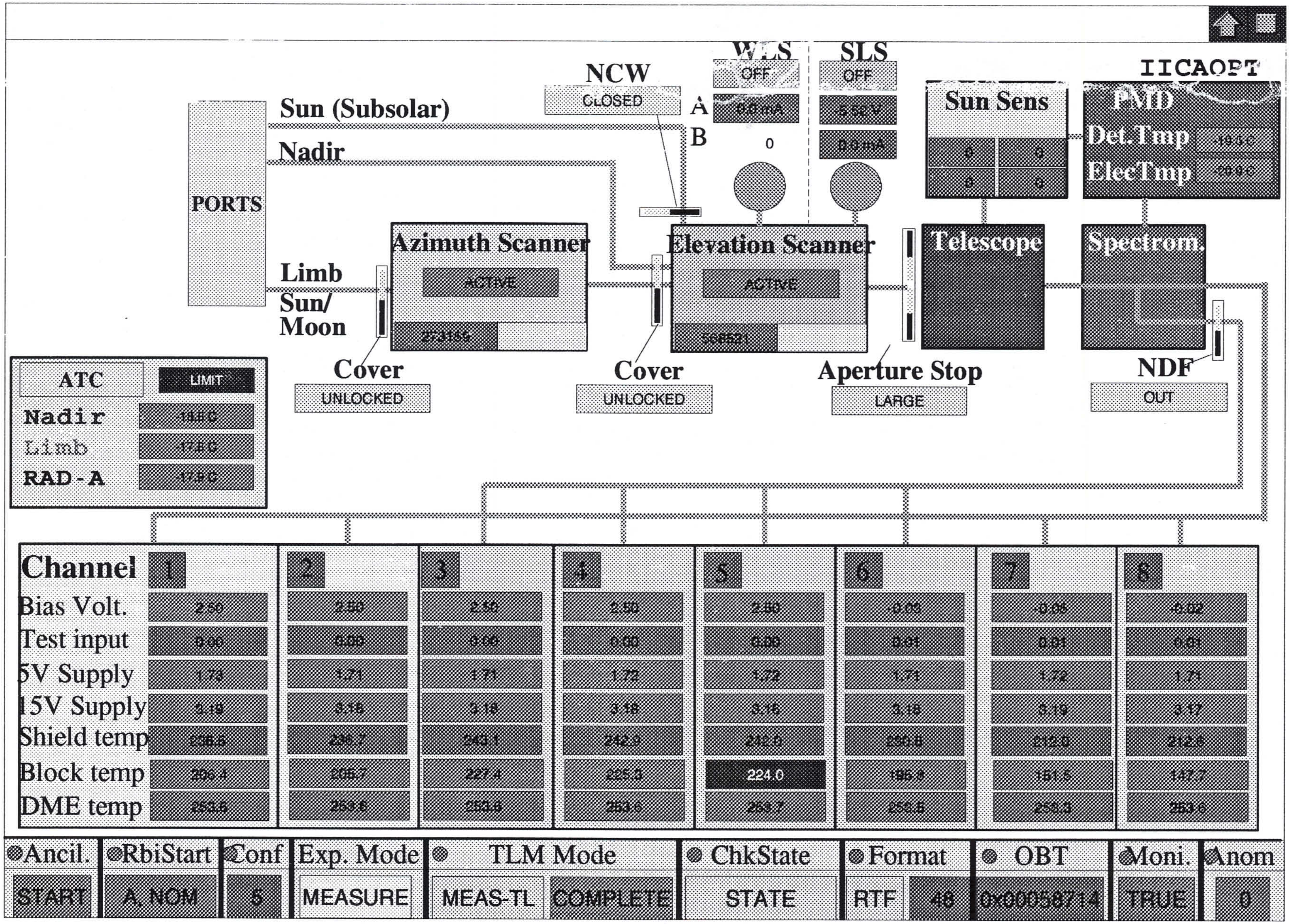
```
time        = Thu Aug 27 15:46:17 1998
batch       = wsb2
Start TOD = Thu 27-Aug-98 11:11:54
End   TOD = Thu 27-Aug-98 11:15:06
Processing= computation of average, standard dev. and rel.standard dev.
```

```
time       = Thu Aug 27 15:44:39 1998
batch      = wsd1
Start TOD  = Thu 27-Aug-98 10:52:43
End   TOD  = Thu 27-Aug-98 10:55:54
Processing= computation of average, standard dev. and rel.standard dev.
```

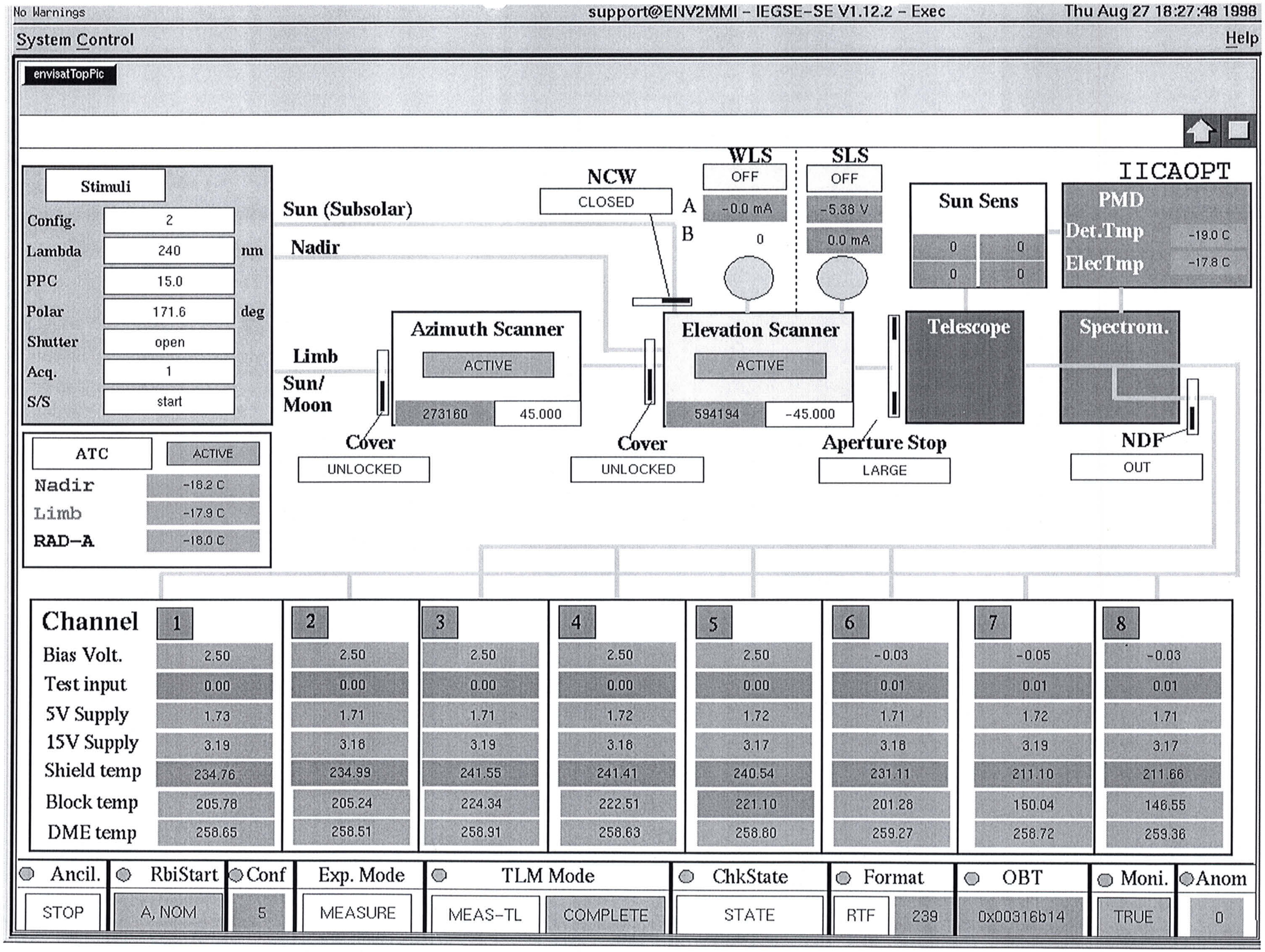
```
time       = Thu Aug 27 15:45:12 1998
batch      = wsd2
Start TOD = Thu 27-Aug-98 10:59:07
End   TOD = Thu 27-Aug-98 11:02:19
Processing= computation of average, standard dev. and rel.standard dev.
```

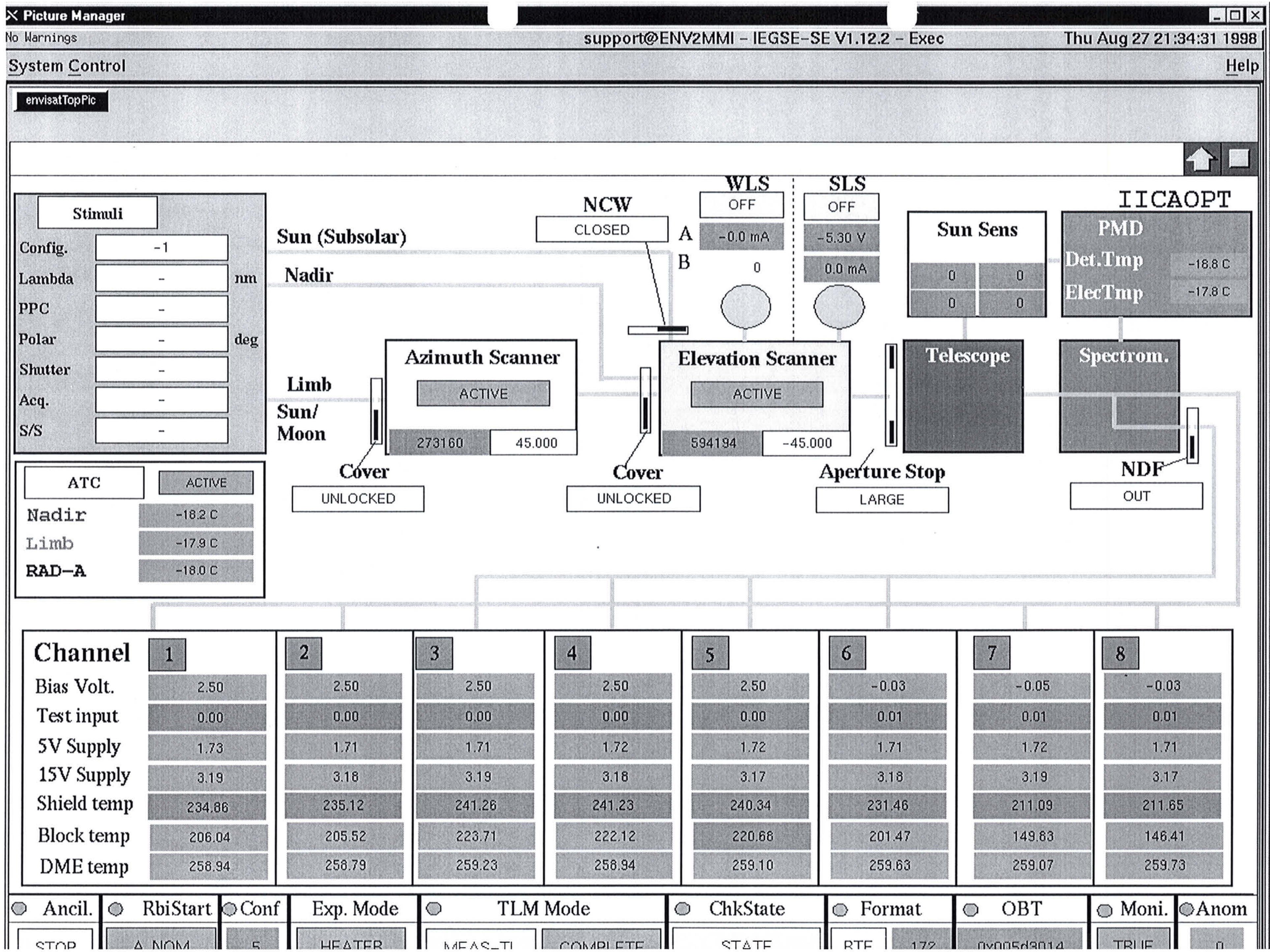
LOG SHEET SCHIAMACHY CALIBRATION

Date/Time	Description of action	Measurement directory
27-8-1998 11:40 UTC	Tempertures changed to low values A4 -100 A5 -138,9 A4 has to go to -81,8 but to increas the speed of change it is set to -100 after a certain time it has to be set back to -81,8 (when channel 1 is at the right temperture)	
14:55 UTC	A4 set to -81.8 DM temperaturus read out not available due to Dornier debug-activities.	



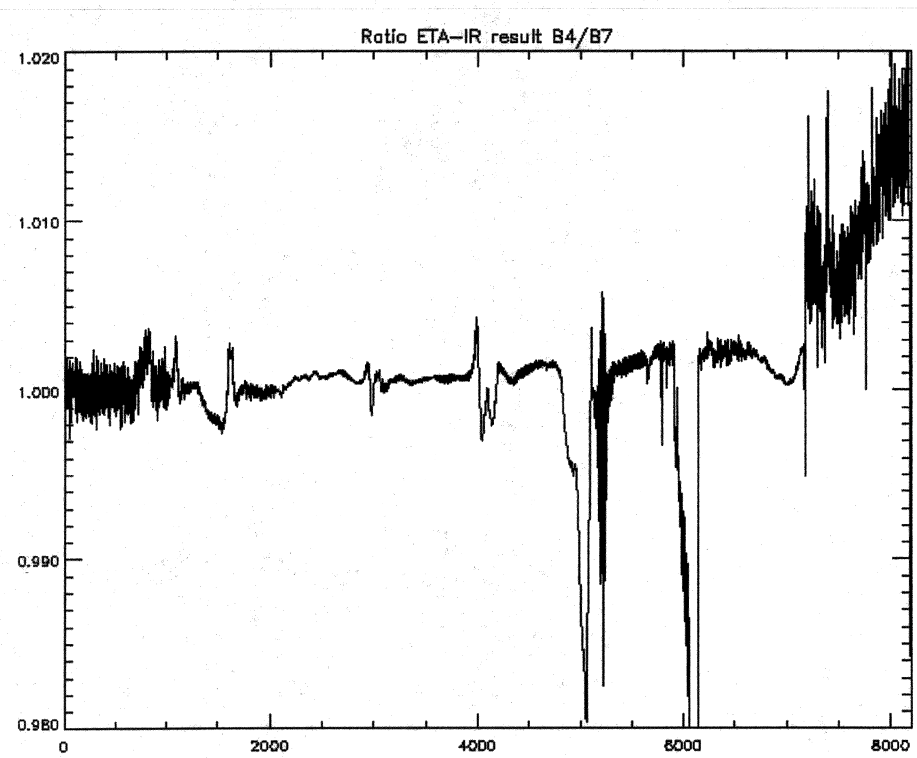
IIOASSEY: PostScript Picture (75628 bytes) at Thu Aug 27 15:20:43 GMT 1998


No Warnings
support@ENV2MMI – IEGSE-SE V1.12.2 – Exec
Thu Aug 27 18:27:48 1998
System Control
Help
envisatTopPic
Stimuli
Config. 2
Lambda 240 nm
PPC 15.0
Polar 171.6 deg
Shutter open
Acq. 1
S/S start
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
-5.38 V
0.0 mA
Azimuth Scanner
ACTIVE
273160
45.000
Cover
UNLOCKED
Elevation Scanner
ACTIVE
594194
-45.000
Cover
UNLOCKED
Aperture Stop
LARGE
Sun Sens
0 0
0 0
Telescope
IICAOPT
PMD
Det.Tmp -19.0 C
ElecTmp -17.8 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 234.76 234.99 241.55 241.41 240.54 231.11 211.10 211.66
Block temp 205.78 205.24 224.34 222.51 221.10 201.28 150.04 146.55
DME temp 258.65 258.51 258.91 258.63 258.80 259.27 258.72 259.36
Ancil. STOP
RbiStart A, NOM
Conf 5
Exp. Mode MEASURE
TLM Mode MEAS-TL COMPLETE
ChkState STATE
Format RTF 239
OBT 0x00316b14
Moni. TRUE
Anom 0

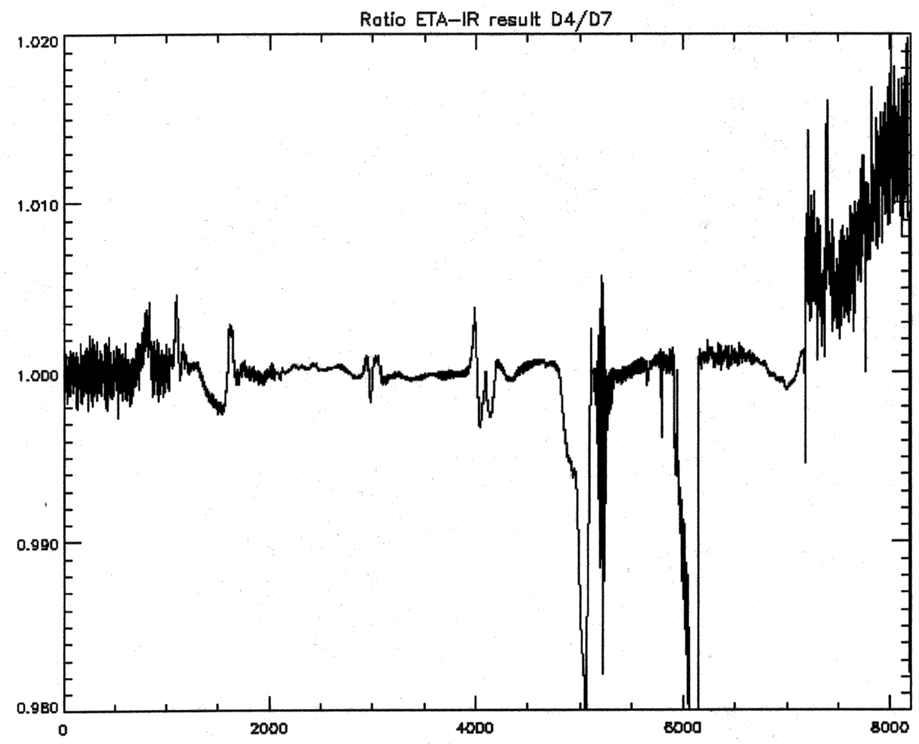


Picture Manager
No Warnings
support@ENV2MMI - IEGSE-SE V1.12.2 - Exec
Thu Aug 27 21:34:31 1998
System Control
Help
envisatTopPic
Stimuli
Config. -1
Lambda - nm
PPC -
Polar - deg
Shutter -
Acq. -
S/S -
ATC ACTIVE
Nadir -18.2 C
Limb -17.9 C
RAD-A -18.0 C
Sun (Subsolar)
Nadir
Limb
Sun/ Moon
NCW CLOSED
WLS OFF
A -0.0 mA
B 0
SLS OFF
-5.30 V
0.0 mA
Azimuth Scanner ACTIVE 273160 45.000
Elevation Scanner ACTIVE 594194 -45.000
Cover UNLOCKED
Cover UNLOCKED
Aperture Stop LARGE
Sun Sens 0 0 0 0
Telescope
IICAOPT
PMD
Det.Tmp -18.8 C
ElecTmp -17.8 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 234.86 235.12 241.26 241.23 240.34 231.46 211.09 211.65
Block temp 206.04 205.52 223.71 222.12 220.68 201.47 149.83 146.41
DME temp 258.94 258.79 259.23 258.94 259.10 259.63 259.07 259.73
Ancil.
RbiStart
Conf
Exp. Mode
TLM Mode
ChkState
Format
OBT
Moni.
Anom

4 at ~~high~~ low temp.
7 at ~~low~~ high temp.



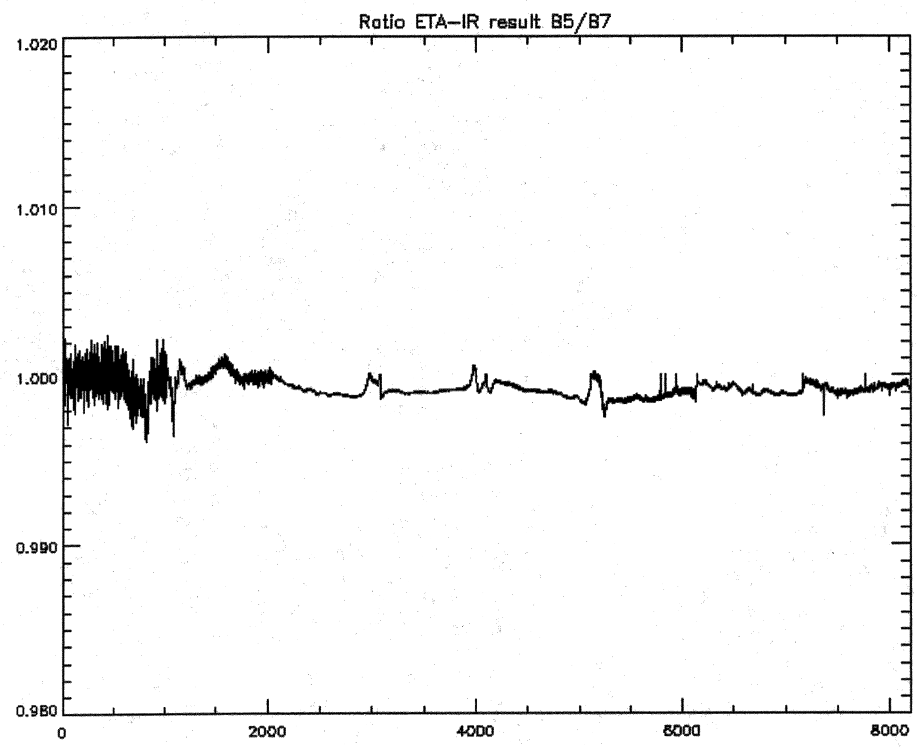
4. at ~~high~~ low temp.
7. at ~~low~~ high temp.



5+7 both at high temp

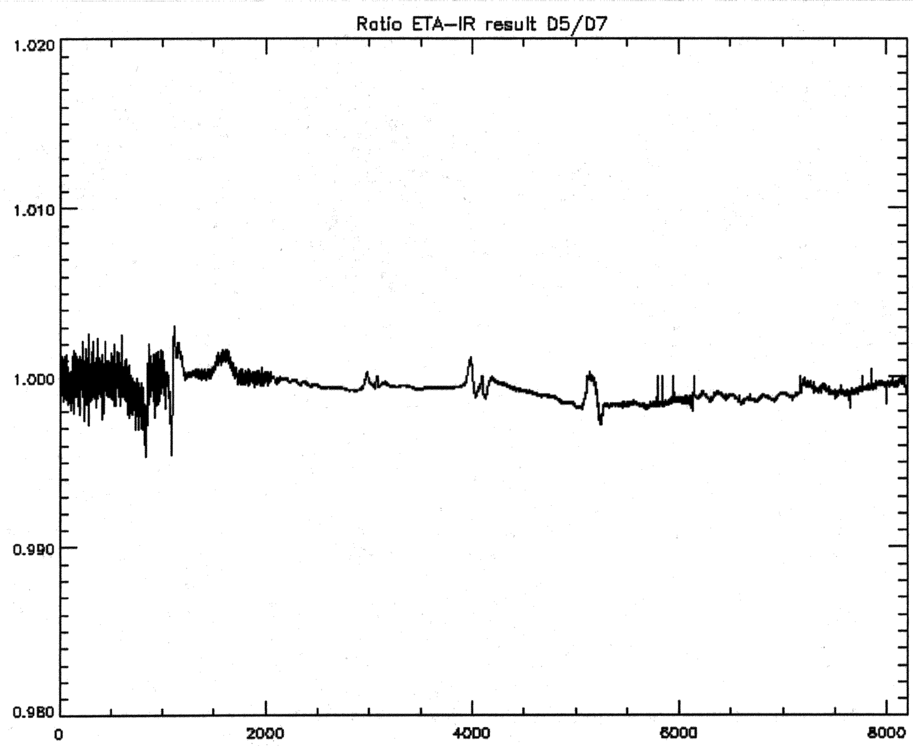
5. temp was not correct.

+ Debug software



5+7 both at high temp + Debug software

5. temp was not correct.



MILIEU
BEWUST

Aspa

44 04 69

```
; IDL Version 5.1 (sunos sparc)
; Journal File for scia@scia6
; Working directory: /disk1/scia/cal/idl
; Date: Sun Aug 16 23:23:20 1998
; by Marion Stoppelenburg
; compare the results of two ETA-IR measurements.

.compile cal_func
.compile cal_file_func

print
print, "select ETA-IR/4/.....du1.avg.cal.b.p1.cal"
print
record1= read_single_cal()

print
print, "select ETA-IR/4/.....du1.avg.cal.d.p1.cal"
print
record2= read_single_cal()


b1=fltarr(1024,8)
(  fltarr(1024,8)


for i=0,7 do b1 (*,i)= record1.dm(i).data
for i=0,7 do d1 (*,i)= record2.dm(i).data


print
print, "select ETA-IR/7/.....du1.avg.cal.b.p1.cal"
print
record1= read_single_cal()

print
print, "select ETA-IR/7/.....du1.avg.cal.d.p1.cal"
print
record2= read_single_cal()

b2=fltarr(1024,8)
d2=fltarr(1024,8)

for i=0,7 do b2 (*,i)= record1.dm(i).data
for i=0,7 do d2 (*,i)= record2.dm(i).data

a1=where(b1 lt 0.01)
a2=where(d1 lt 0.01)
b1(a1)=1.0
d1(a2)=1.0

a1=where(b2 lt 0.01)
a2=where(d2 lt 0.01)
b2(a1)=1.0
d2(a2)=1.0

b0 = b1/b2
d0 = d1/d2

window, 0
plot, b0, yrange=[0.98,1.02], title="Ratio ETA-IR result B4/B7", xrange=[0,819
window, 1
plot, d0, yrange=[0.98,1.02], title="Ratio ETA-IR result D4/D7", xrange=[0,819
```

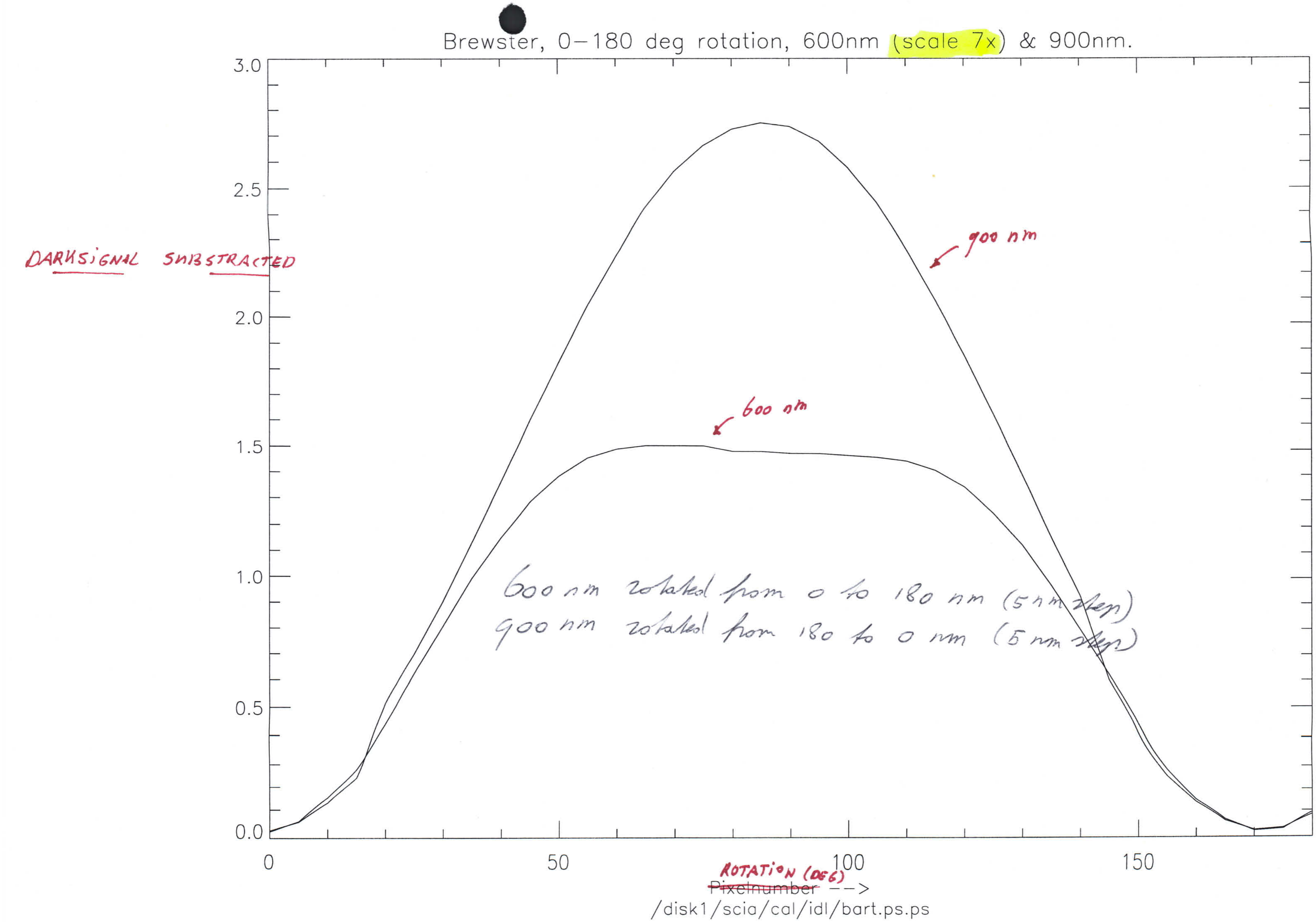
LOG SHEET SCHIAMACHY CALIBRATION

Date/Time	Description of action	Measurement directory
27-08	Beste collega's	
	De temp instelling is gewijzigd en vannacht zal deze wel stabiel zijn op Low temperatures. Daarna gaan we verder met een bijna ongewijzigd programma.	
	Beginnen met § 14-8 Xsi-UV we doen als eerste met 2 suprasil (UV) 311 diffusers.	UID 11
	Daarna de zelfde met 1 Suprasil 311 diffuser.	UID 11
	Aansluitend hierop doen we	UID 10 en 12.
	dit geeft Marcel \ Maurice \ erik de tijd om te beslissen hoe we verder gaan.	
	Na deze set doen we Xsi-VisIR en tenslotte Xsi-IR voor metingen waarvoor de zelfde combinatie condensor en diffusor is gebruikt, kun je de correcte pet vinden in de oude logsheet. Voor nieuw combinaties kun je een verkorte meting runnen met grote wl stap. ~~Let op! bij sommige metingen~~	
	Speciaal voor deze 1e avond, na het opbouwen van de mono en totdat de temp. correct is, wordt je verzocht om te kijken of de brewster (local mode) kunt instellen zodat de Si monitor detector nul is. Dit voor wl = 300, 400, 600 nm. Daarna de Brewster-cosinus opmeten in stappen van 5 ~~nm~~	

! Ook dit met de hand in local mode!

LOG SHEET SCHIAMACHY CALIBRATION

Date/Time	Description of action	Measurement directory
27/8 23:50 UTC	Test Run X_{Si} - UV - II , PET BEPALEN	
28/8 1:40 UT	Run X_{Si} - UV - II , PET GEWIJZIGD.	
	BREWSTER TEST GEDAAN.	
	Brewster over 180° gedraaid, Si-detector van stimuli uitgelezen.	
	Dit bij 900 nm & 600 nm. Resultaten: zie grafiek.	
	Handmatig minimum ~~de~~ van brewster bepaald.	
	Voor 900 nm : 171 - 172° Si detector = 0.040	
	600 nm : 170 - 172,5° " " = 0.021	


Brewster, 0–180 deg rotation, 600nm (scale 7x) & 900nm.
DARKSIGNAL SUBSTRACTED
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
50
100
150
900 nm
600 nm
600 nm rotated from 0 to 180 nm (5 nm step)
900 nm rotated from 180 to 0 nm (5 nm step)
ROTATION (DEG)
~~Pixelnumber~~ -->
/disk1/scia/cal/idl/bart.ps.ps

900 nm

180	0,102
175	0,050
170	0,042
165	0,077
160	0,157
55	0,276
50	0,433
45	0,618
40	0,949
35	1,177
2	1,415
25	1,653
20	1,883
15	2,098
0	2,291
5	2,461
0	2,597
75	2,698
0	2,754
5	2,768
0	2,744
5	2,680
0	2,581
5	2,437
0	2,268
5	2,073
0	1,849
15	1,619
0	1,381
5	1,149

BREWSTERTEST, DATA STAAT in ASCII-FILE in IDL-DIRECTORY:

BREWSER_600nm &

BREWSTER_900nm

30	0,921
25	0,715
20	0,531
15	0,261
10	0,146
5	0,073
0	0,043

Formal Run of Measurement

(Measurement ID) XI-2

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	+45.000	deg
Elevation	-45.000	deg

Timeline for each Data Acquisition Period during Measurement

	1	2	3	4	5	6	7	8	9	10
State ID	18									
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	64	1						
2a	64	1						
3	0.5	64						
4	64	1						
5	64	1						
6	16	4						
7	2	32						
8	2	32						
State ID								

Step 14-8
test-run § @ low DMR

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	1	0.0	85.4	close	1 start	390	390	0	1	DU1	
2	1	0.0	85.4	open	1 start	390	390	0	1	MP~	
3	1	0.0	85.4	open	1 start	392	460	2	1	MP~	
4	1	0.0	85.4	close	1 start	460	460	0	1	DU2	

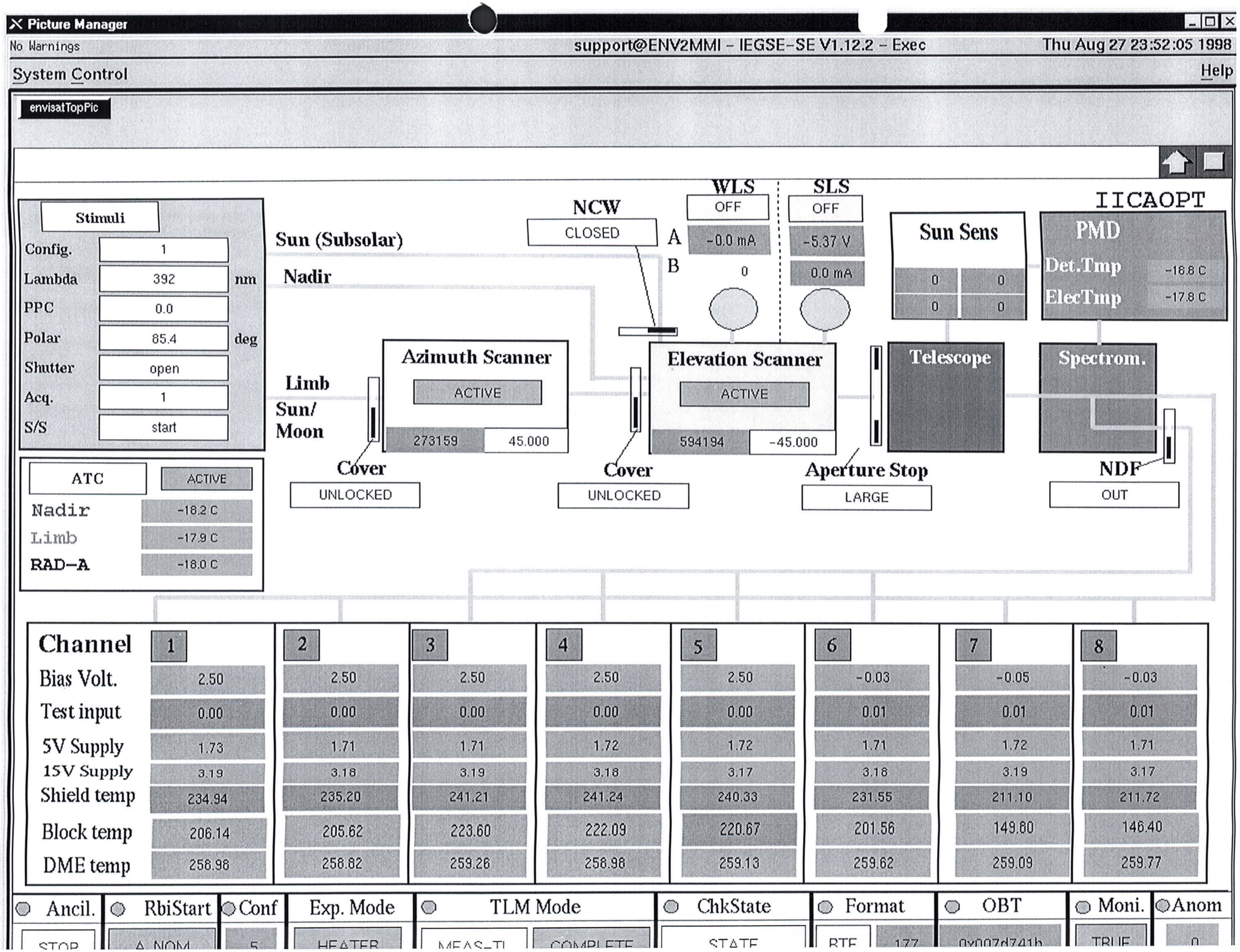
Measurement Data Description

Test Purpose	XSI-UV-11 PET testrun
Remark	UID 11
Data Directory	

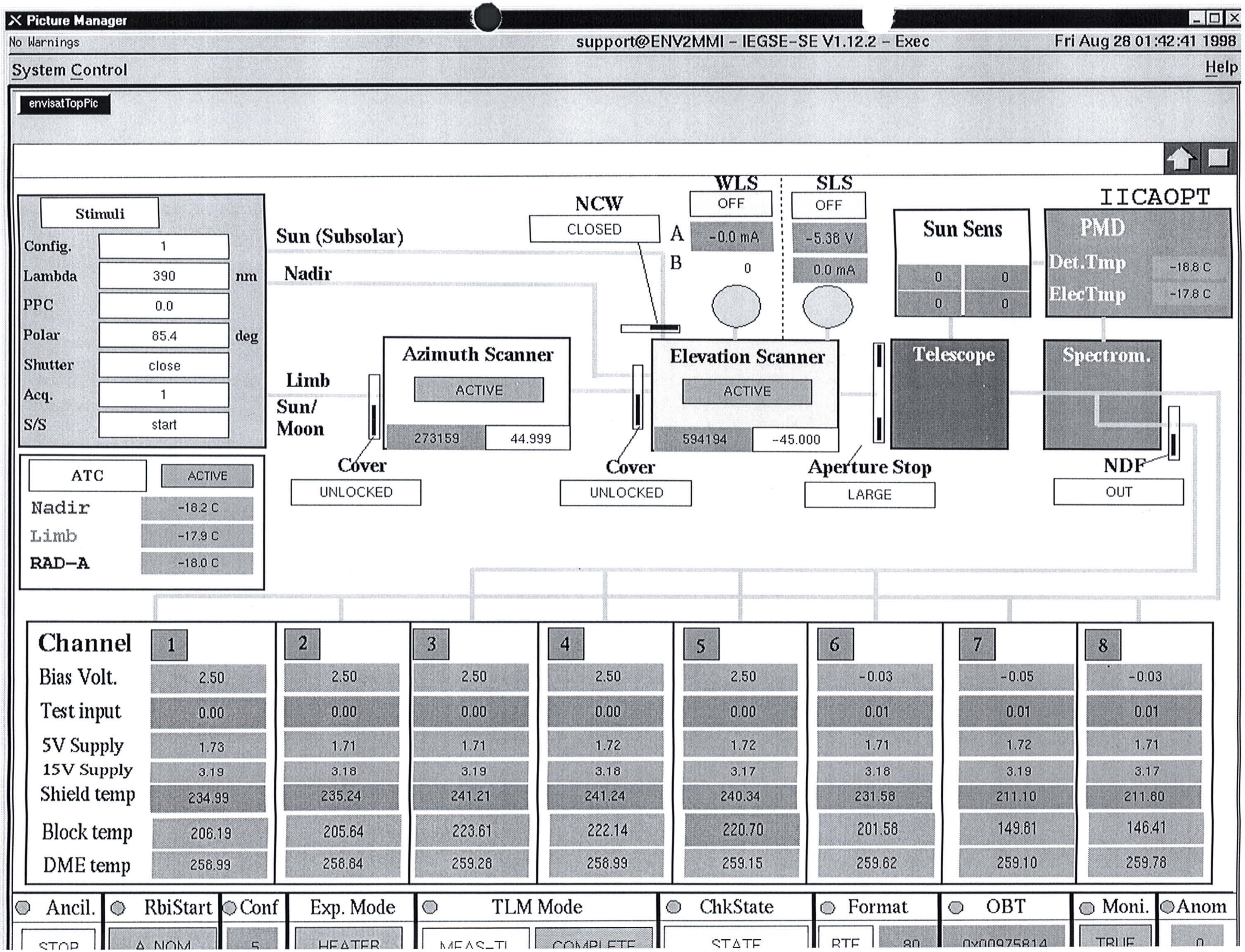
Signatures

	Date	Signature
Issued	28-8-98	RS
< Performed	28-8-98	[illegible]

XI-2
test-run



Picture Manager
No Warnings
support@ENV2MMI – IEGSE-SE V1.12.2 – Exec
Thu Aug 27 23:52:05 1998
System Control
Help
envisatTopPic
Stimuli
Config. 1
Lambda 392 nm
PPC 0.0
Polar 85.4 deg
Shutter open
Acq. 1
S/S start
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
-5.37 V
0.0 mA
Azimuth Scanner
ACTIVE
273159 45.000
Cover
UNLOCKED
Elevation Scanner
ACTIVE
594194 -45.000
Cover
UNLOCKED
Aperture Stop
LARGE
Sun Sens
0 0
0 0
Telescope
IICAOPT
PMD
Det.Tmp -18.8 C
ElecTmp -17.8 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 234.94 235.20 241.21 241.24 240.33 231.55 211.10 211.72
Block temp 206.14 205.62 223.60 222.09 220.67 201.56 149.80 146.40
DME temp 258.98 258.82 259.26 258.98 259.13 259.62 259.09 259.77
Ancil.
RbiStart
Conf
Exp. Mode
TLM Mode
ChkState
Format
OBT
Moni.
Anom



Picture Manager
No Warnings
support@ENV2MMI – IEGSE-SE V1.12.2 – Exec
Fri Aug 28 01:42:41 1998
System Control
Help
envisatTopPic
Stimuli
Config. 1
Lambda 390 nm
PPC 0.0
Polar 85.4 deg
Shutter close
Acq. 1
S/S start
ATC ACTIVE
Nadir -18.2 C
Limb -17.9 C
RAD-A -18.0 C
Sun (Subsolar)
Nadir
Limb
Sun/ Moon
Azimuth Scanner
ACTIVE
273159
44.999
Cover
UNLOCKED
NCW
CLOSED
WLS
OFF
A -0.0 mA
B 0
SLS
OFF
-5.38 V
0.0 mA
Elevation Scanner
ACTIVE
594194
-45.000
Cover
UNLOCKED
Aperture Stop
LARGE
Sun Sens
0 0
0 0
Telescope
IICAOPT
PMD
Det.Tmp -18.8 C
ElecTmp -17.8 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 234.99 235.24 241.21 241.24 240.34 231.58 211.10 211.80
Block temp 206.19 205.64 223.61 222.14 220.70 201.58 149.81 146.41
DME temp 258.99 258.84 259.28 258.99 259.15 259.62 259.10 259.78
Ancil.
RbiStart
Conf
Exp. Mode
TLM Mode
ChkState
Format
OBT
Moni.
Anom

Formal Run of Measurement

(Measurement ID) XI-2

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	+45.00	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	18									
Repetitions	5									

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	64	1						
2a	64	1						
3	16	4						
4	64	1						
5	64	1						
6	16	4						
7	2	32						
8	2	32						
State ID								

Step 14-8

5 @ low DM temps

modified PET ch 3

2 311 UV- DIFFUSERS

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]
		Same		as		before					

Measurement Data Description

Test Purpose	XSI-UV-II
Remark	UID 11
Data Directory	0240_01.35.54_XI_2

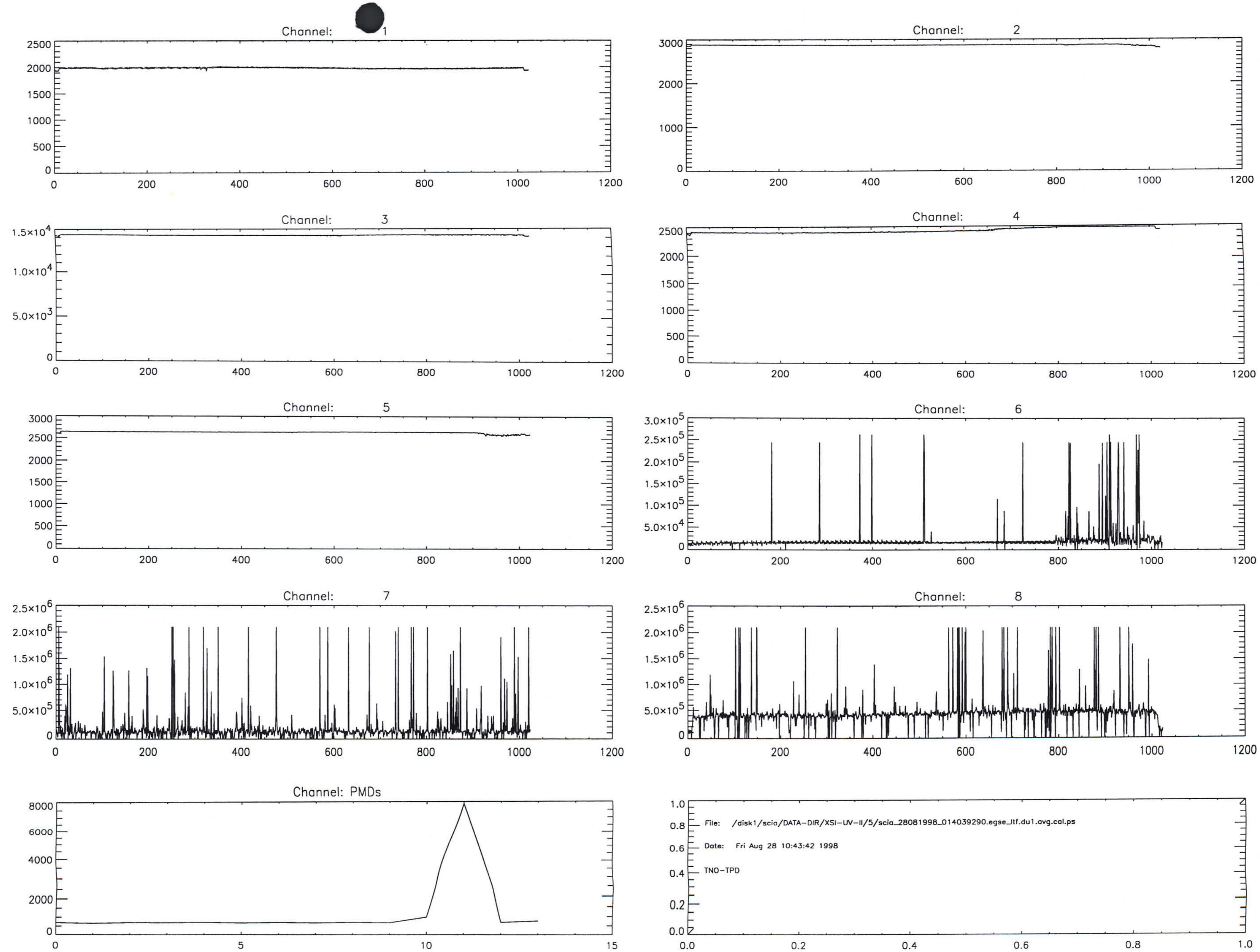
Signatures

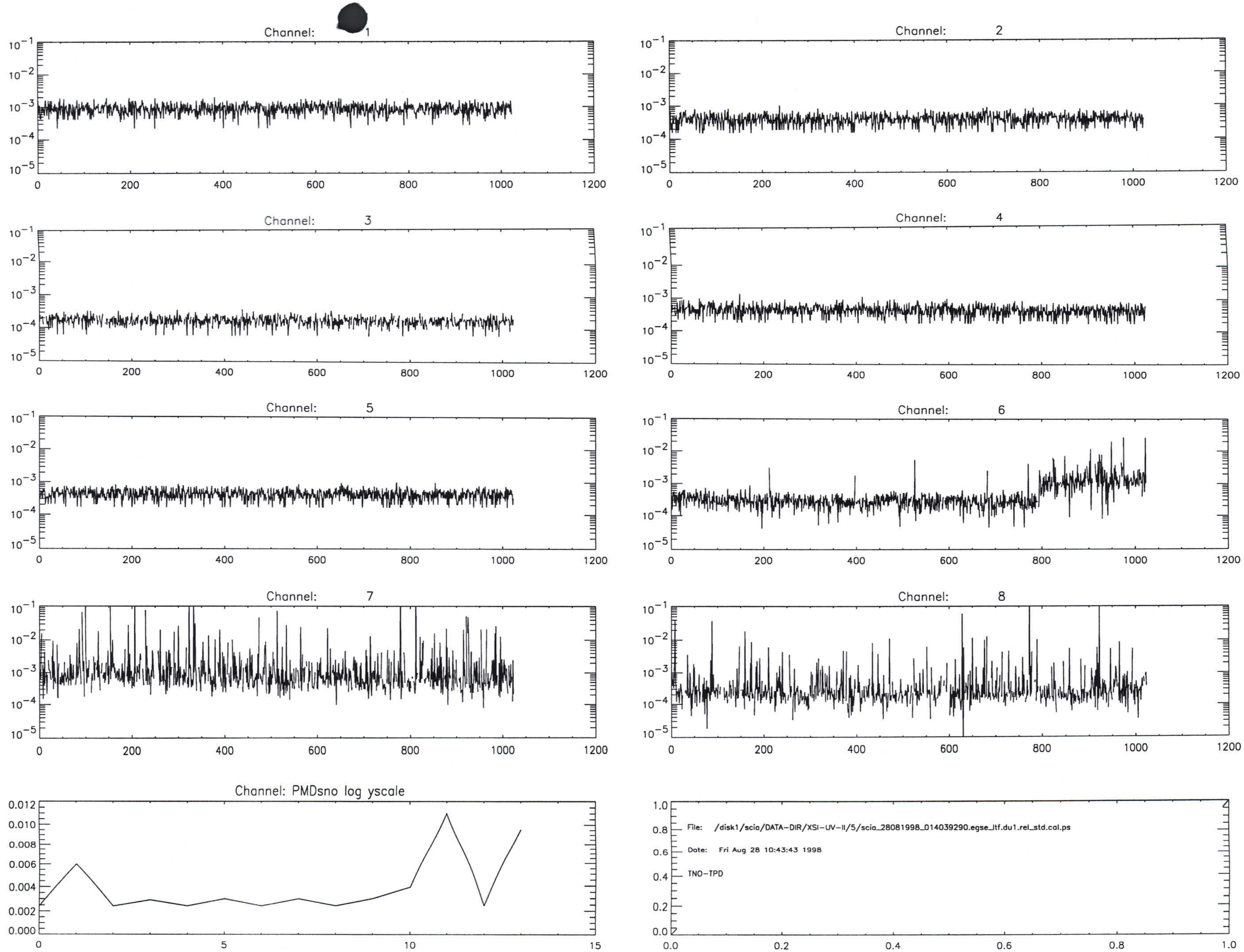
	Date	Signature
Issued	28-8-98	RS
< Performed	28-8-98	[illegible]

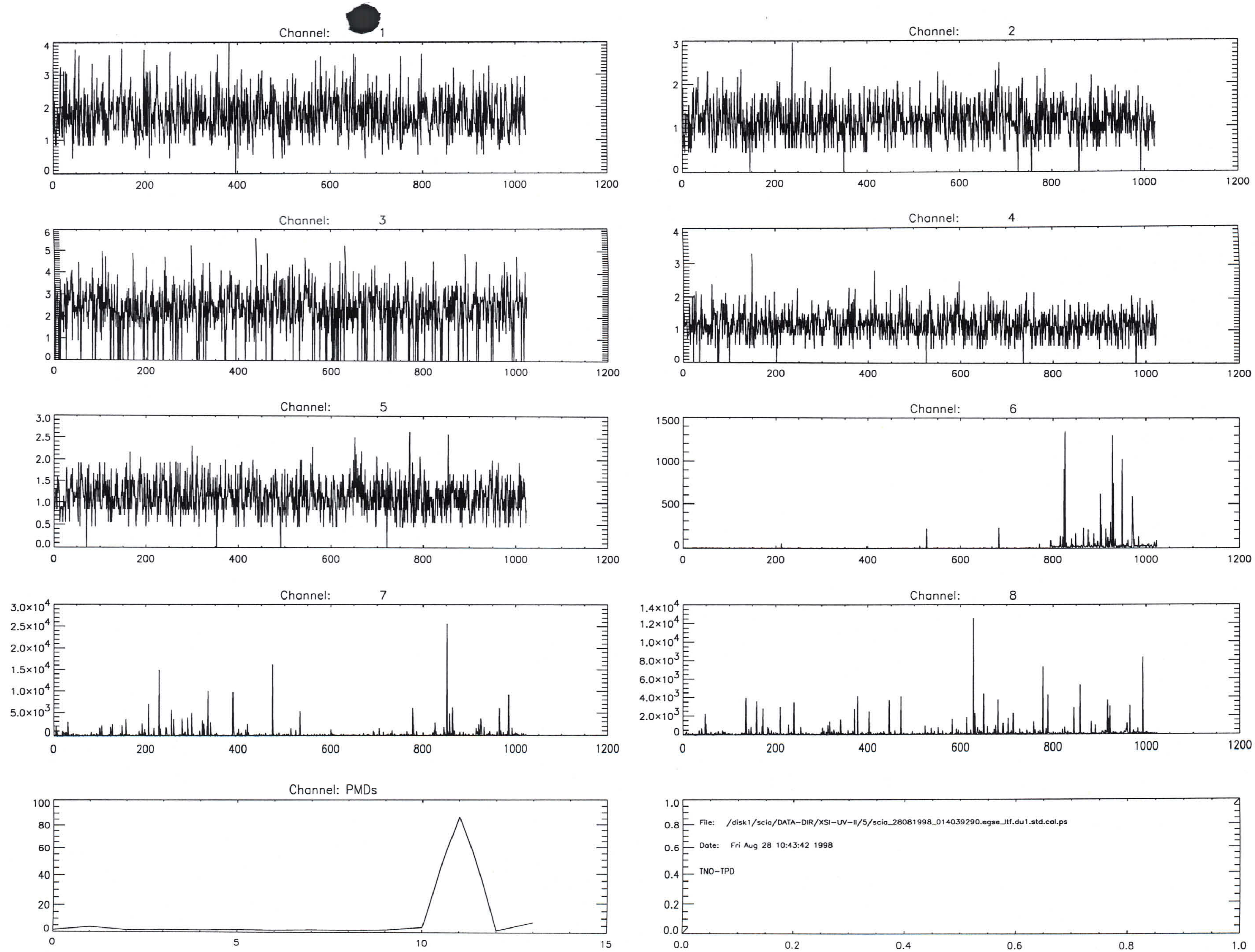
28-8

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Dion Ouise Lansink 28-8-'98	
	What's the name of the (main) data input files generated by the EGSE? (*.dat)	SciA-28001998-014039290-dAT	(A)
	Setup a three-window configuration on your SUN.		see course descr.
Cnstr directory	cd ~/DATA-DIR/XSI-UV-II/ ; 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/XSI-UV-II/<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	{A}.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_fastaverscia (and select file <D> when asked)	X	Note: In window IDL
Check CAL files	Dark files: ls -l *du*.cal		In DATA-DIR Window
	size:	146 kB	should be approx 150Kb

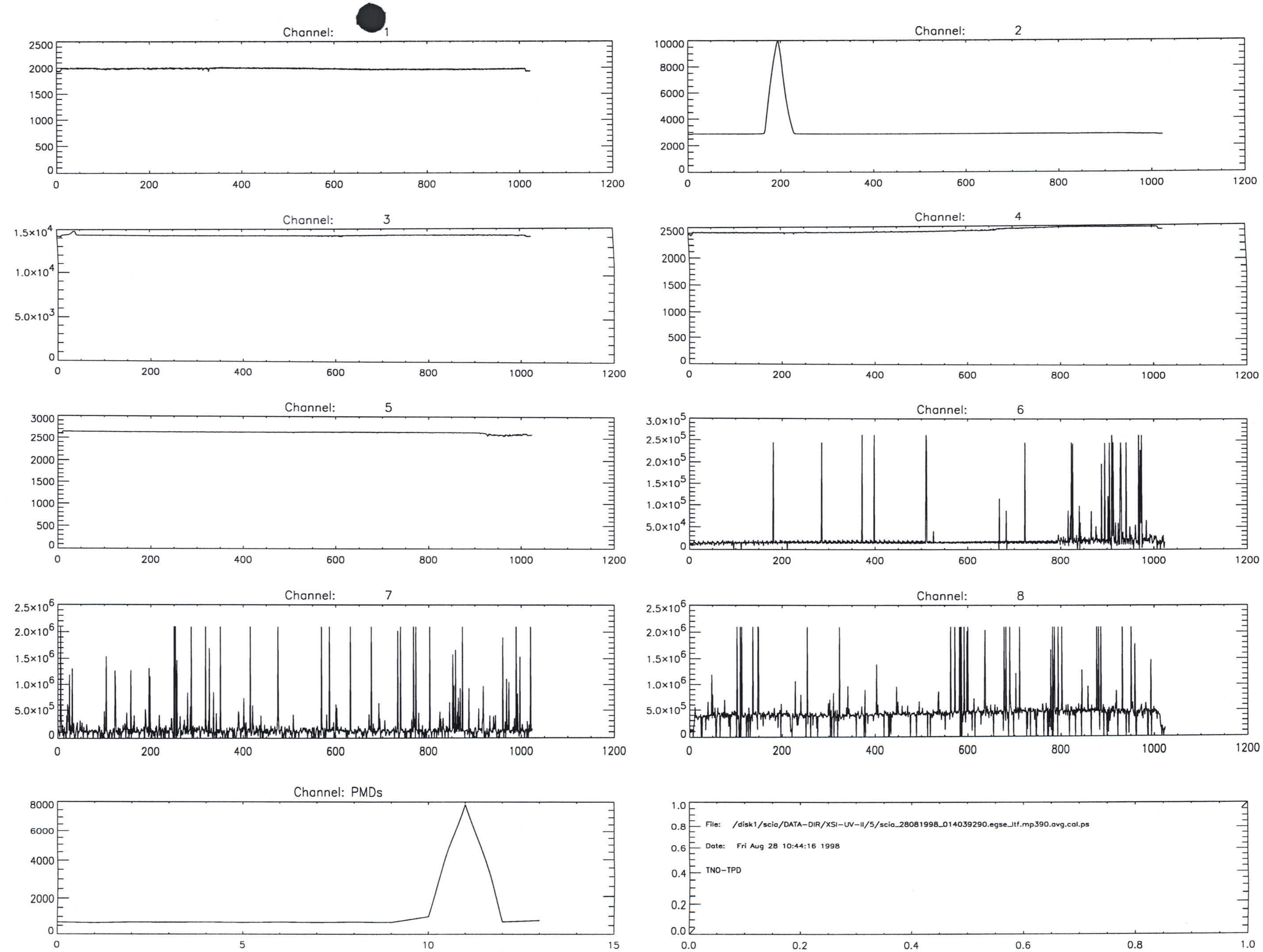
Run XSI	idl do_xsi		
Check XSI	ls -l *.data Size of file <D>.du*.cal.data	15588 b.	In DATA-DIR window
Check XSI visually	idl do_xsi_processing		In IDL window
	lpr -P<printer> *.data.ps Value of XSI resembles expected XSI (see [Predicted PFMcalibration results])?	Y / N	In DATA-DIR window
	Add postscript images to logbook, done	Y / N	
Print logfiles	lpr -P<printer> *.data.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	PD Nissen	
	Date and time	20-08-98 13:15	
	Signature		


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.du1.avg.cal.ps
Date: Fri Aug 28 10:43:42 1998
TNO-TPD

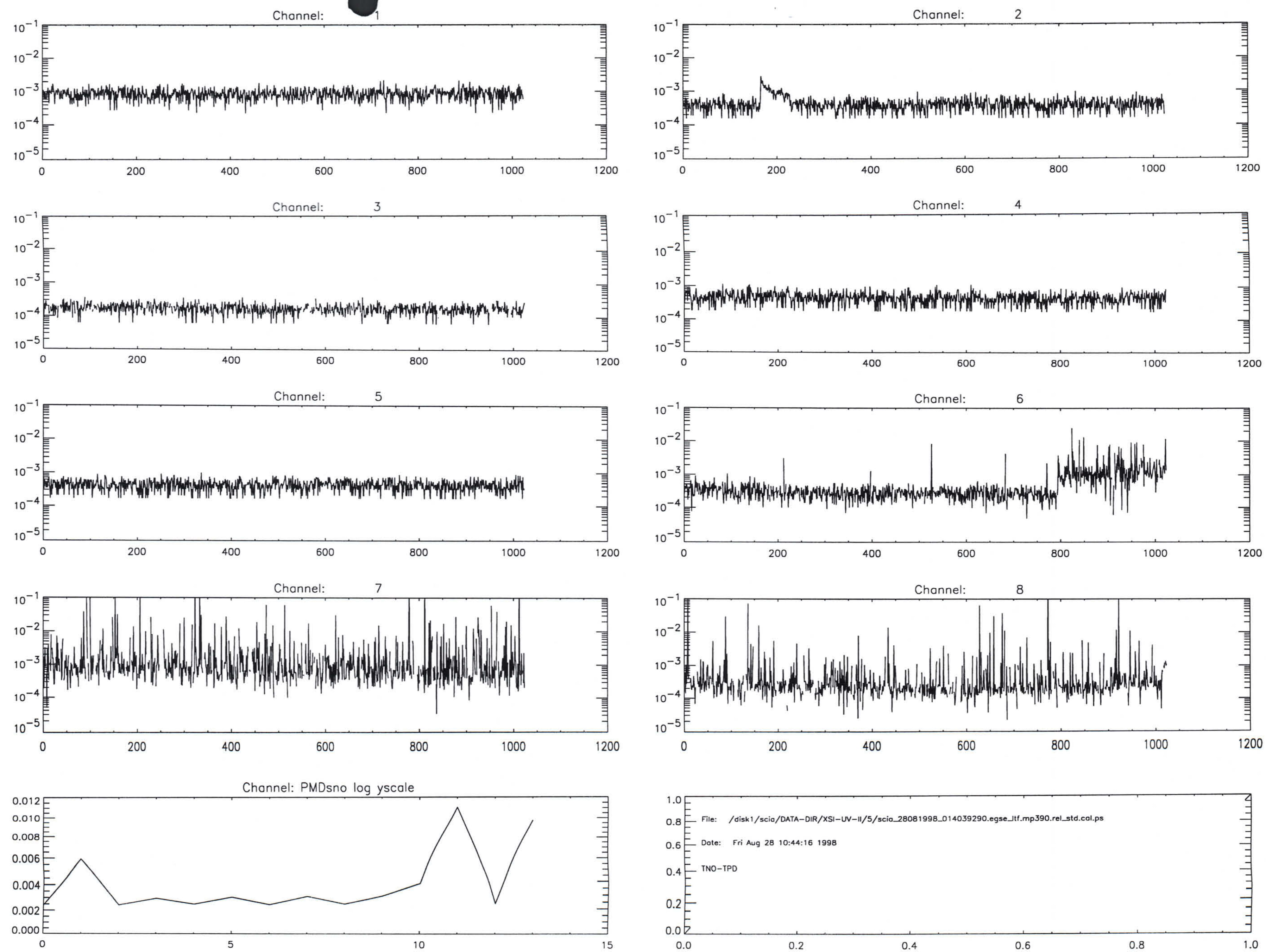

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.du1.rel_std.cal.ps
Date: Fri Aug 28 10:43:43 1998
TNO-TPD

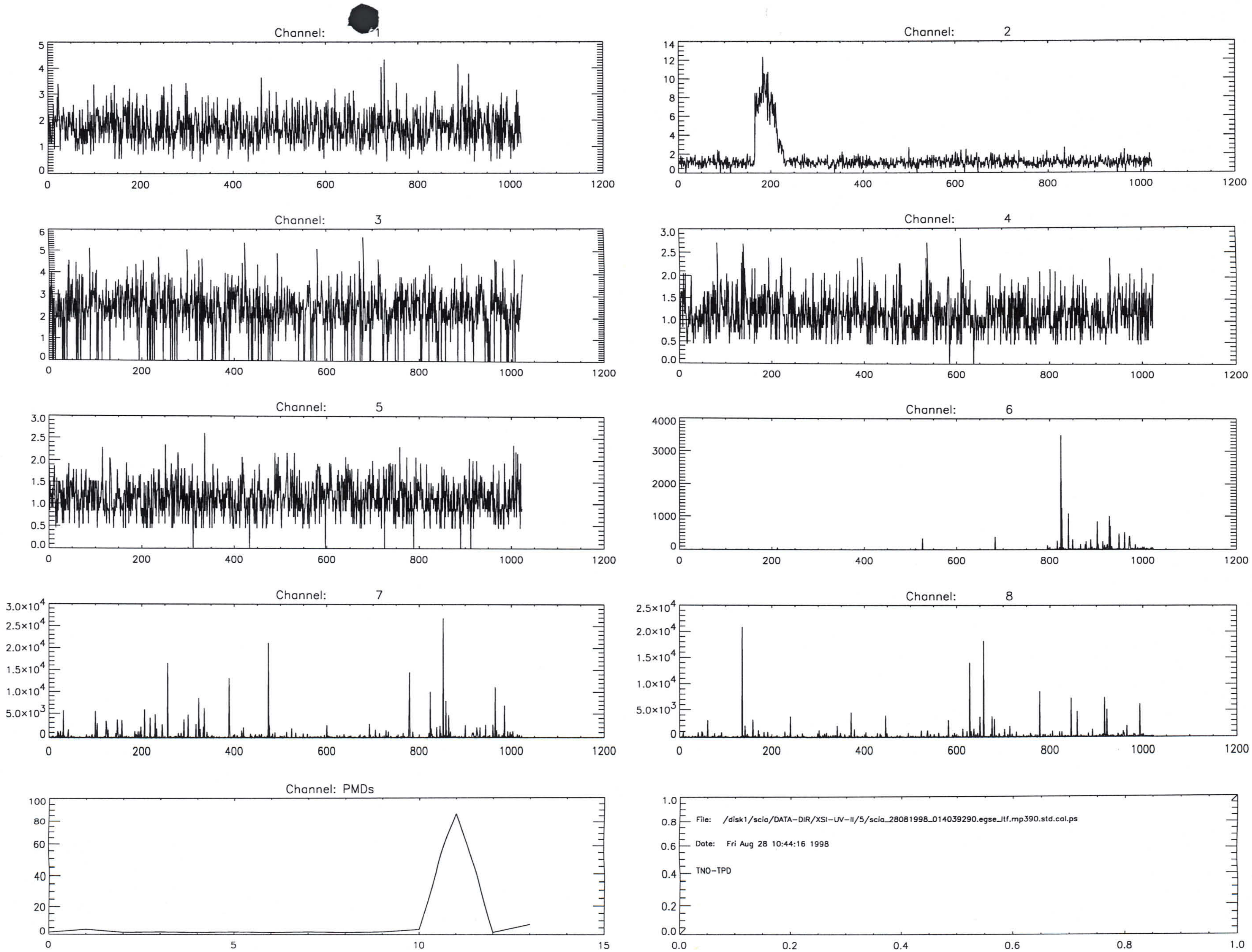


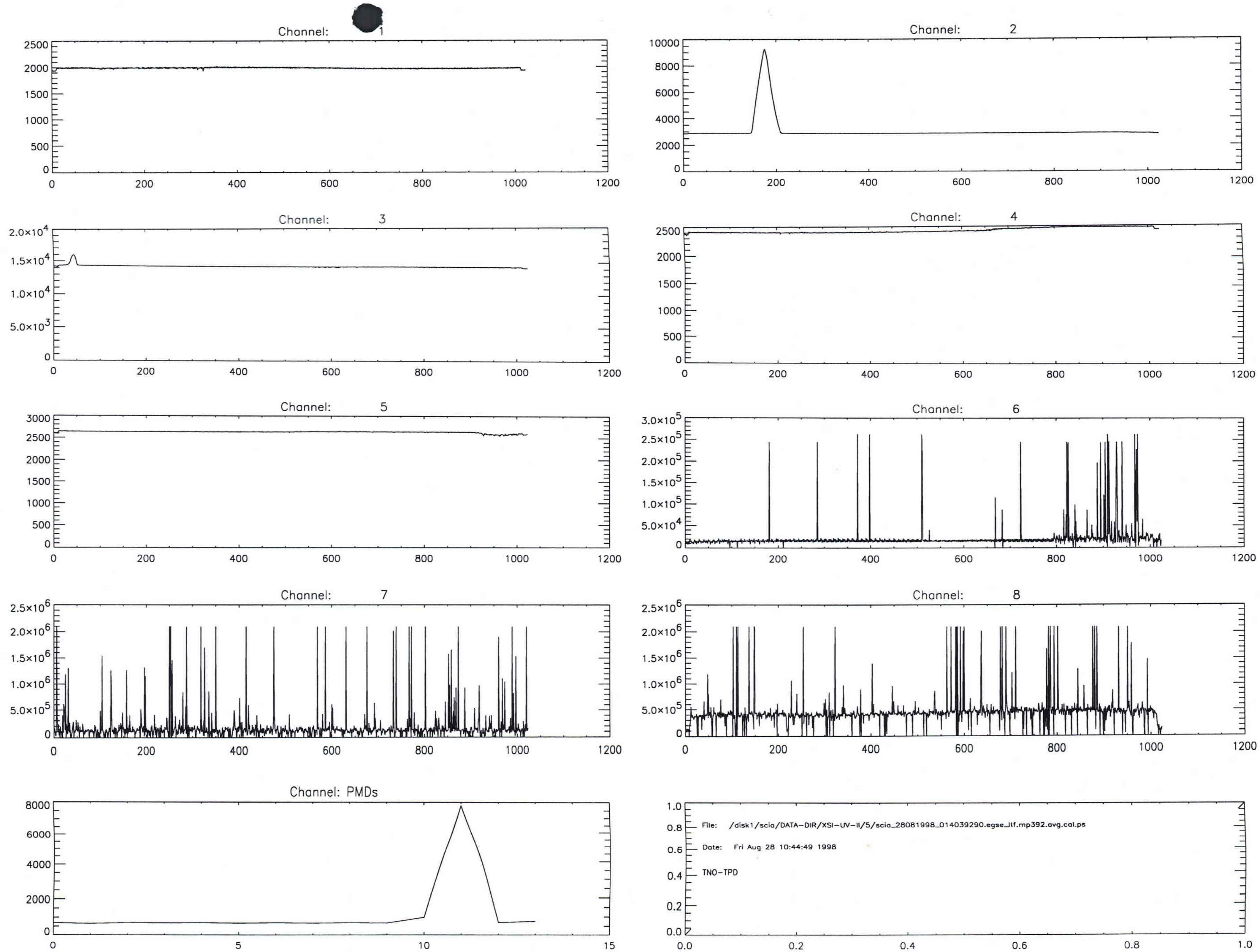
Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.du1.std.col.ps
Date: Fri Aug 28 10:43:42 1998
TNO-TPD



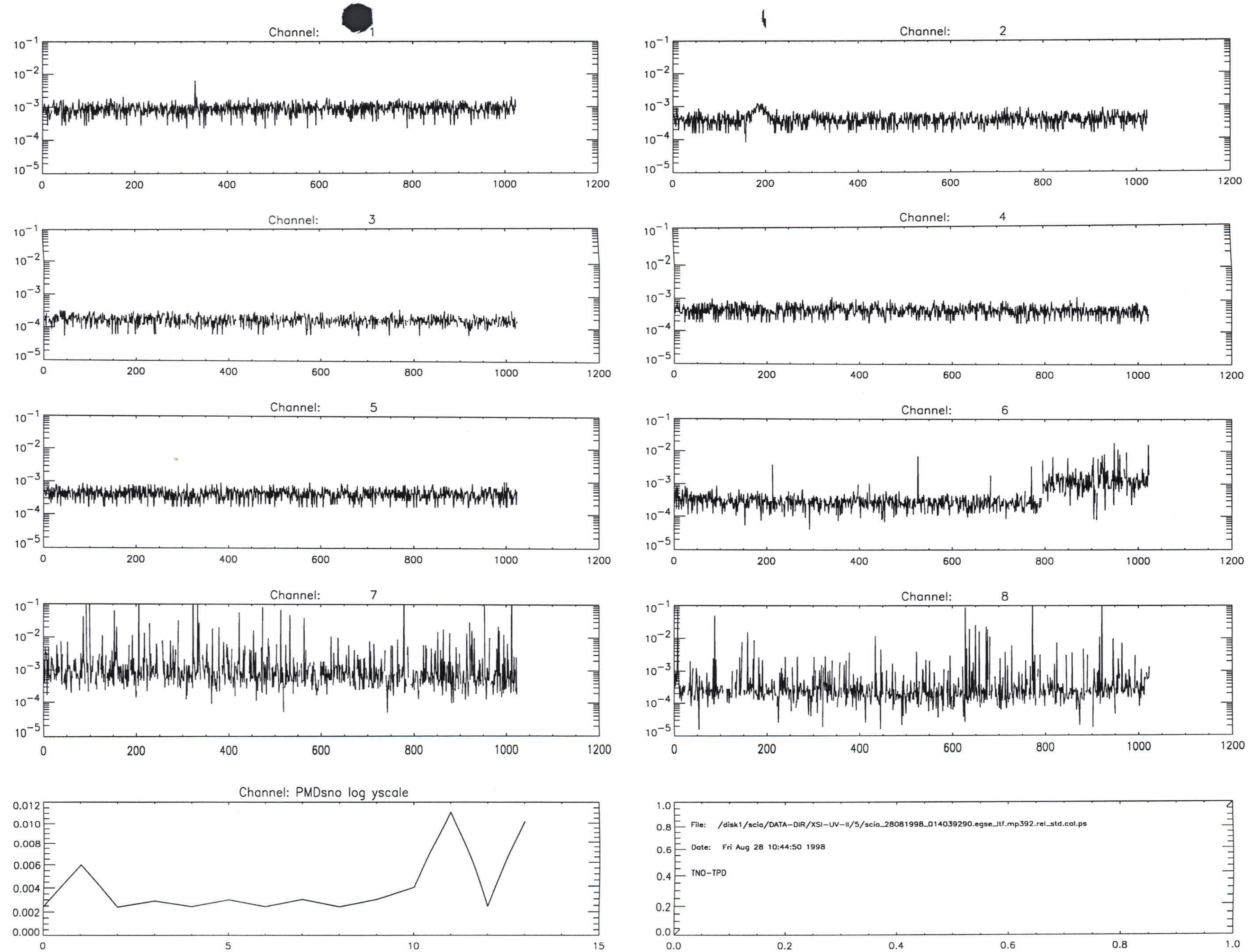
Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp390.avg.cal.ps
Date: Fri Aug 28 10:44:16 1998
TNO-TPD

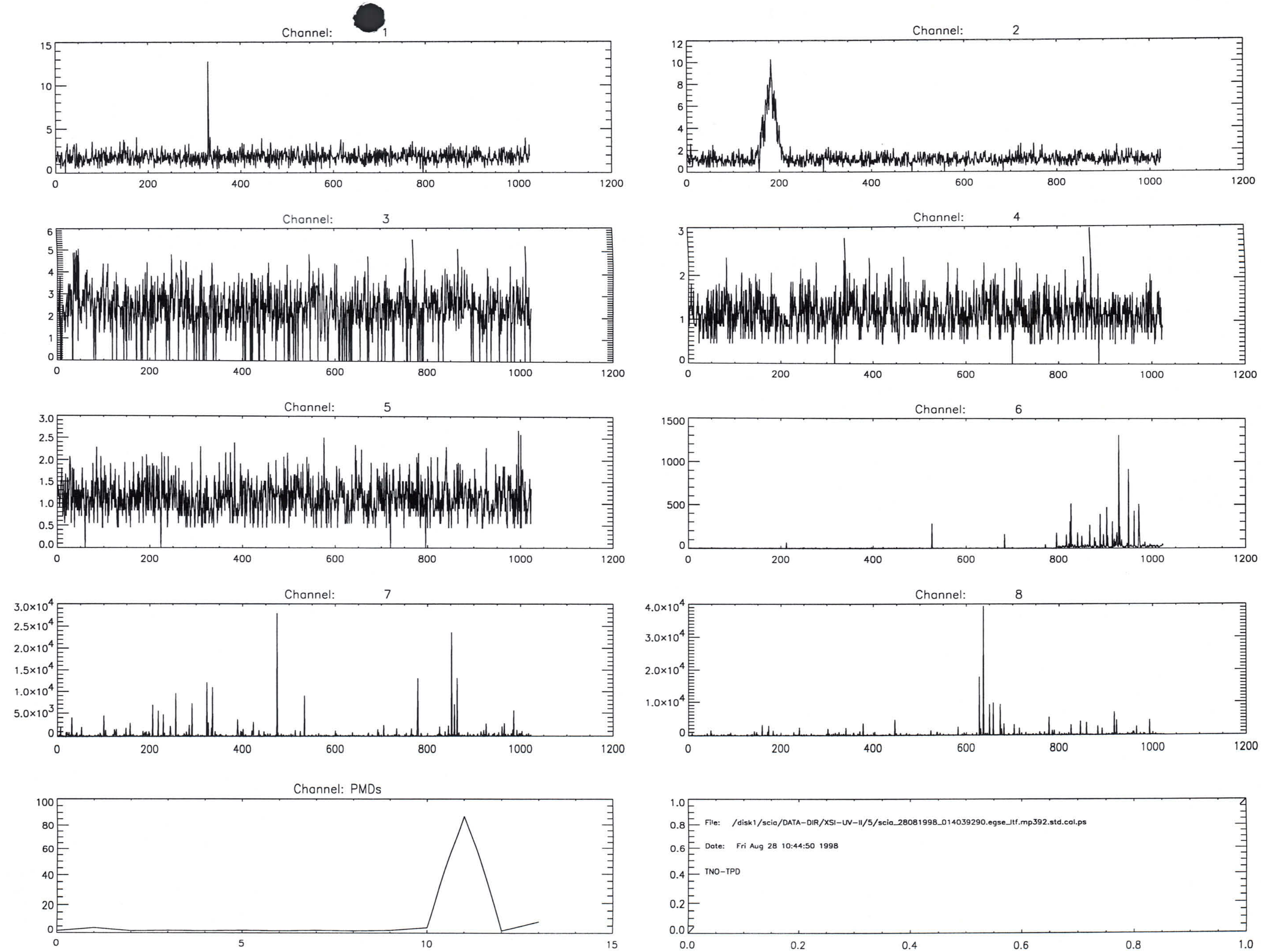

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp390.rel_std.cal.ps
Date: Fri Aug 28 10:44:16 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp390.std.cal.ps
Date: Fri Aug 28 10:44:16 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/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp392.avg.cal.ps
Date: Fri Aug 28 10:44:49 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp392.rel_std.cal.ps
Date: Fri Aug 28 10:44:50 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/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp392.std.col.ps
Date: Fri Aug 28 10:44:50 1998
TNO-TPD

```
time       = Fri Aug  28 10:43:43 1998
batch      = du1
Start TOD = Fri 28-Aug-98 01:41:38
End   TOD = Fri 28-Aug-98 01:48:07
Processing= computation of average, standard dev. and rel.standard dev.
```

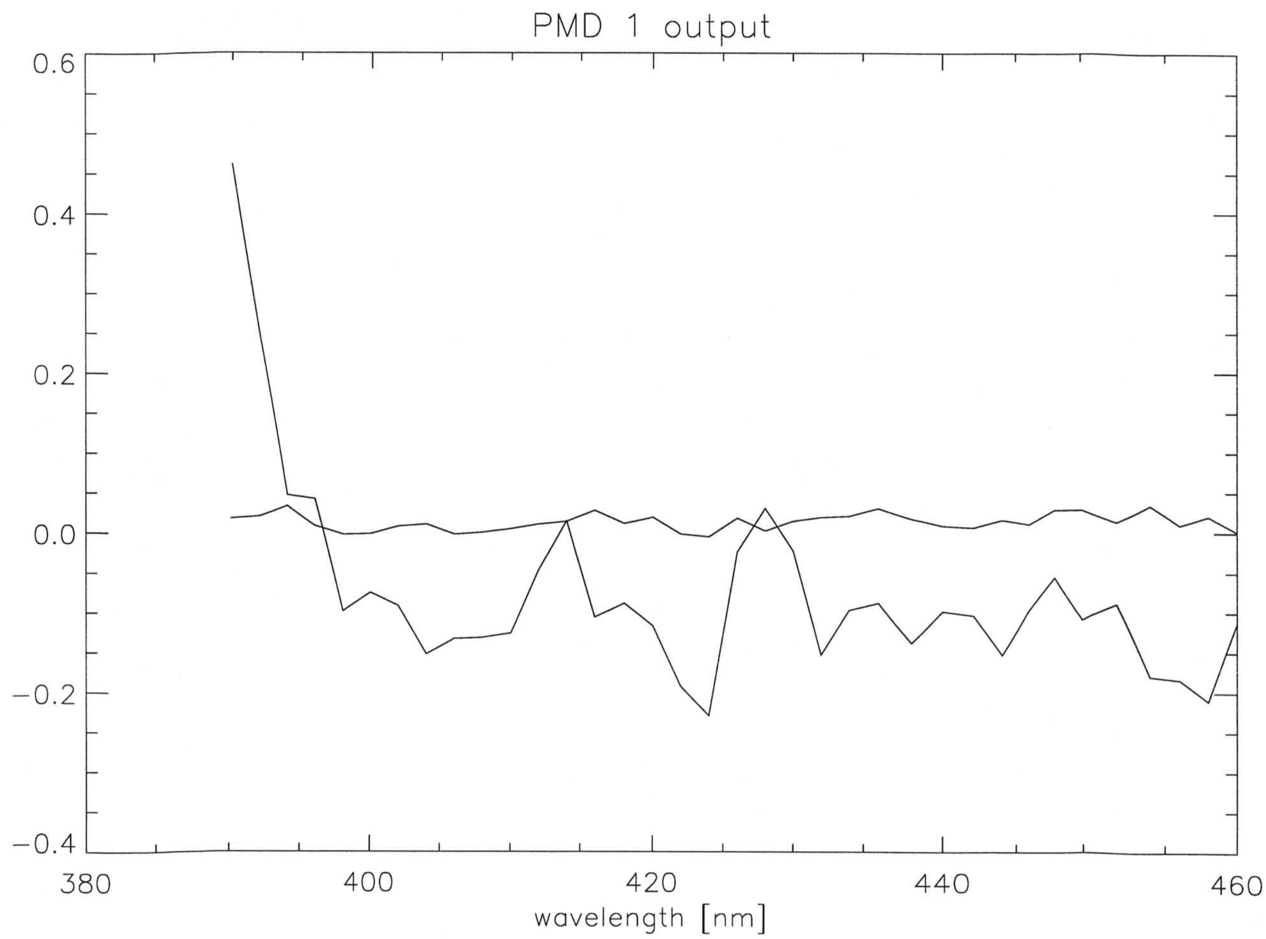
```
time       = Fri Aug 28 11:03:35 1998
batch      = du2
Start TOD = Fri 28-Aug-98 05:38:46
End   TOD = Fri 28-Aug-98 05:43:37
Processing= computation of average, standard dev. and rel.standard dev.
```

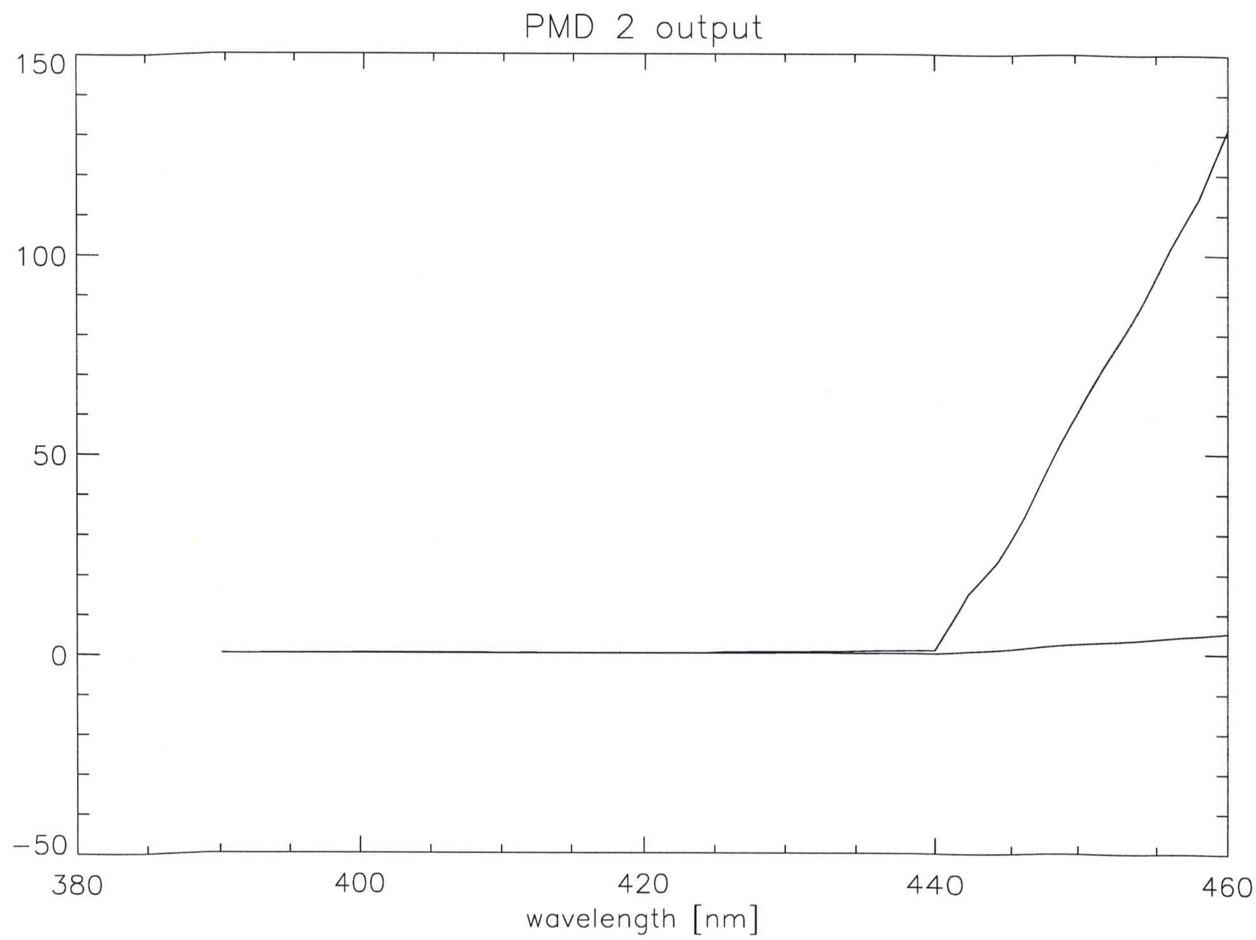
```
time        = Fri Aug 28 10:44:16 1998
batch       = mp390
Start TOD = Fri 28-Aug-98 01:48:07
End   TOD = Fri 28-Aug-98 01:54:42
Processing= computation of average, standard dev. and rel.standard dev.
```

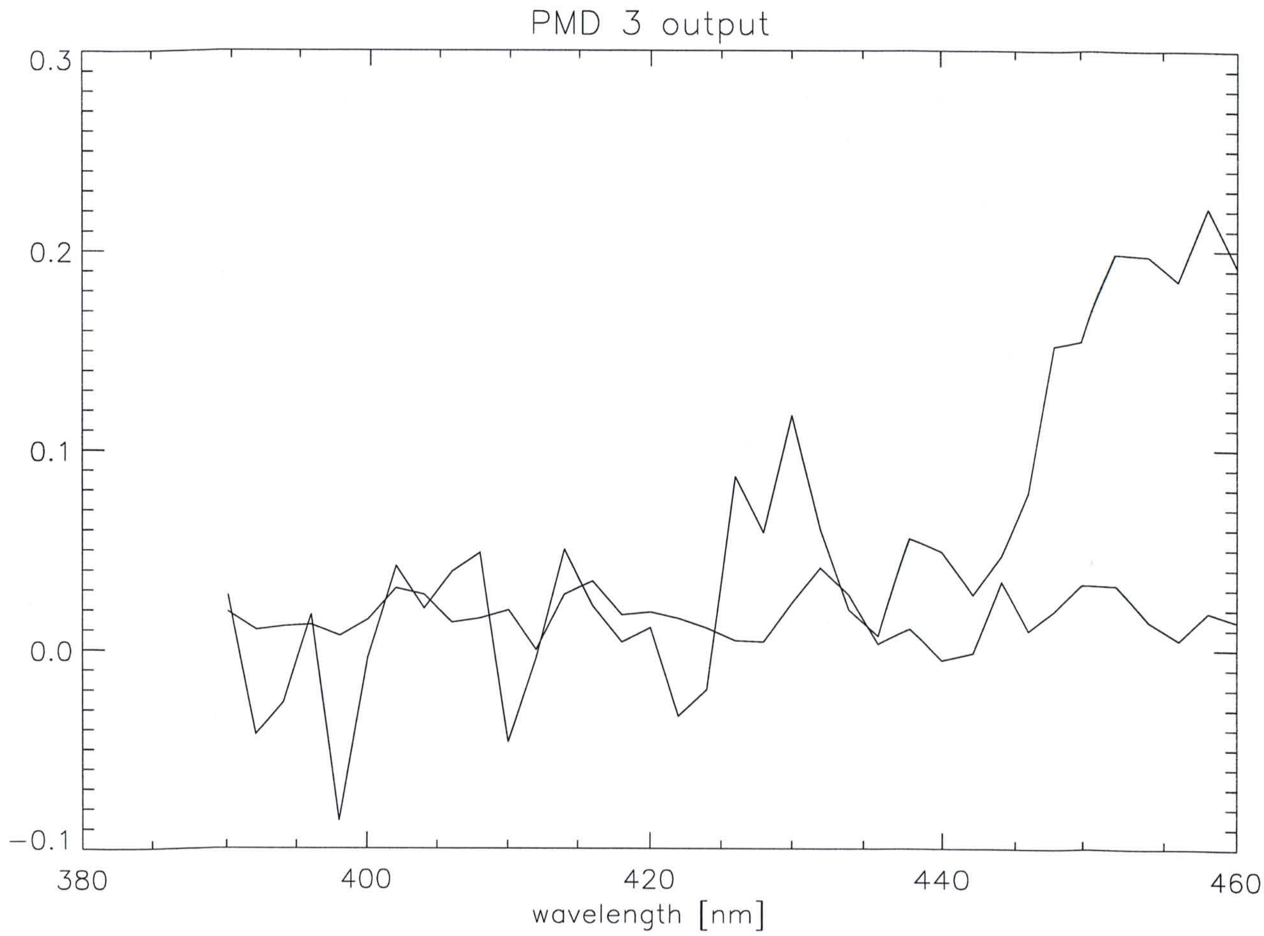
```
time        = Fri Aug  28 10:44:50 1998
batch       = mp392
Start TOD = Fri 28-Aug-98 01:54:42
End   TOD = Fri 28-Aug-98 02:01:05
Processing= computation of average, standard dev. and rel.standard dev.
```

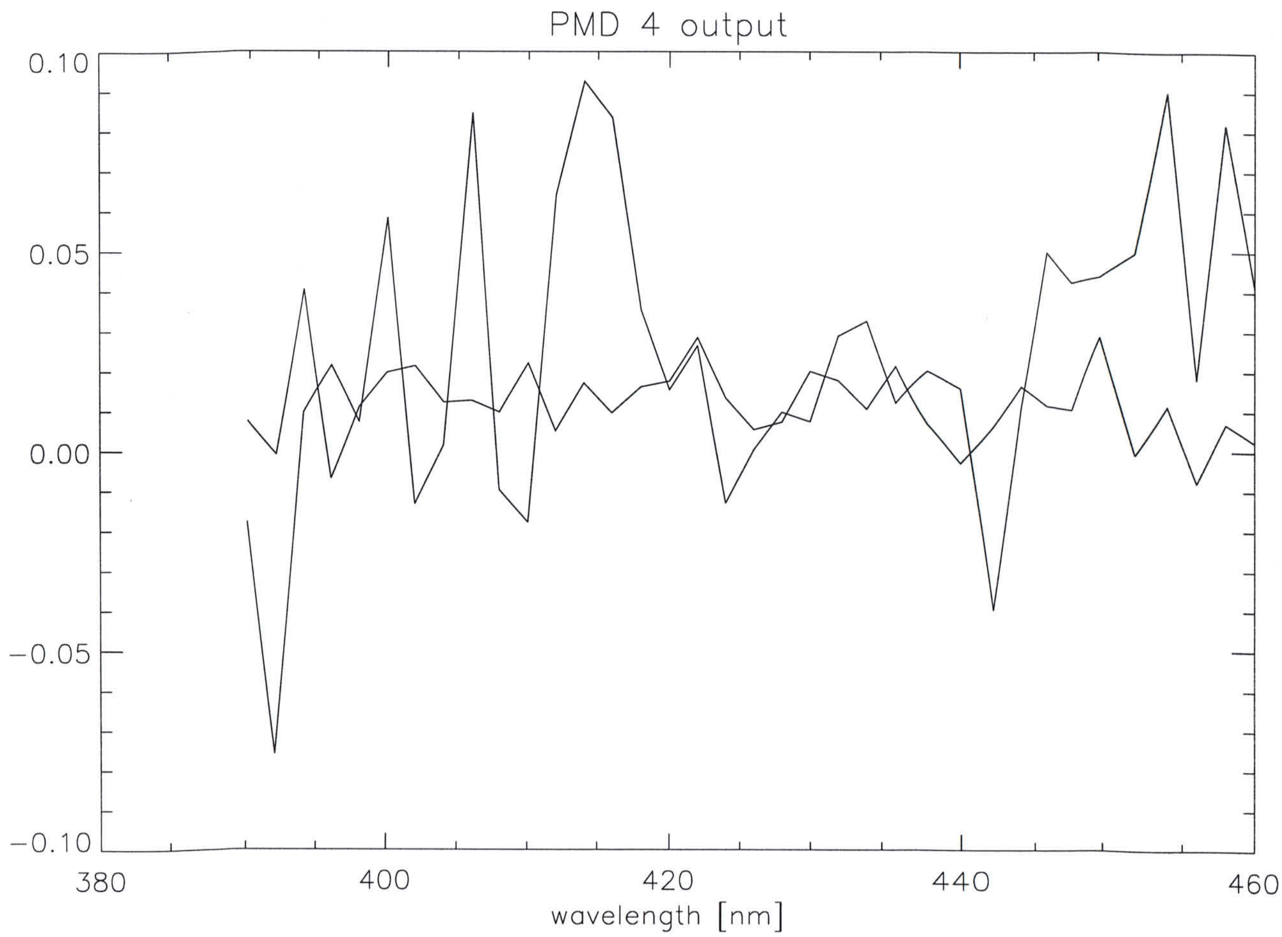
```
390.0 425.0 scia_28081998_014039290.egse_ltf.du1.avg.cal
425.0 460.0 scia_28081998_014039290.egse_ltf.du2.avg.cal
```

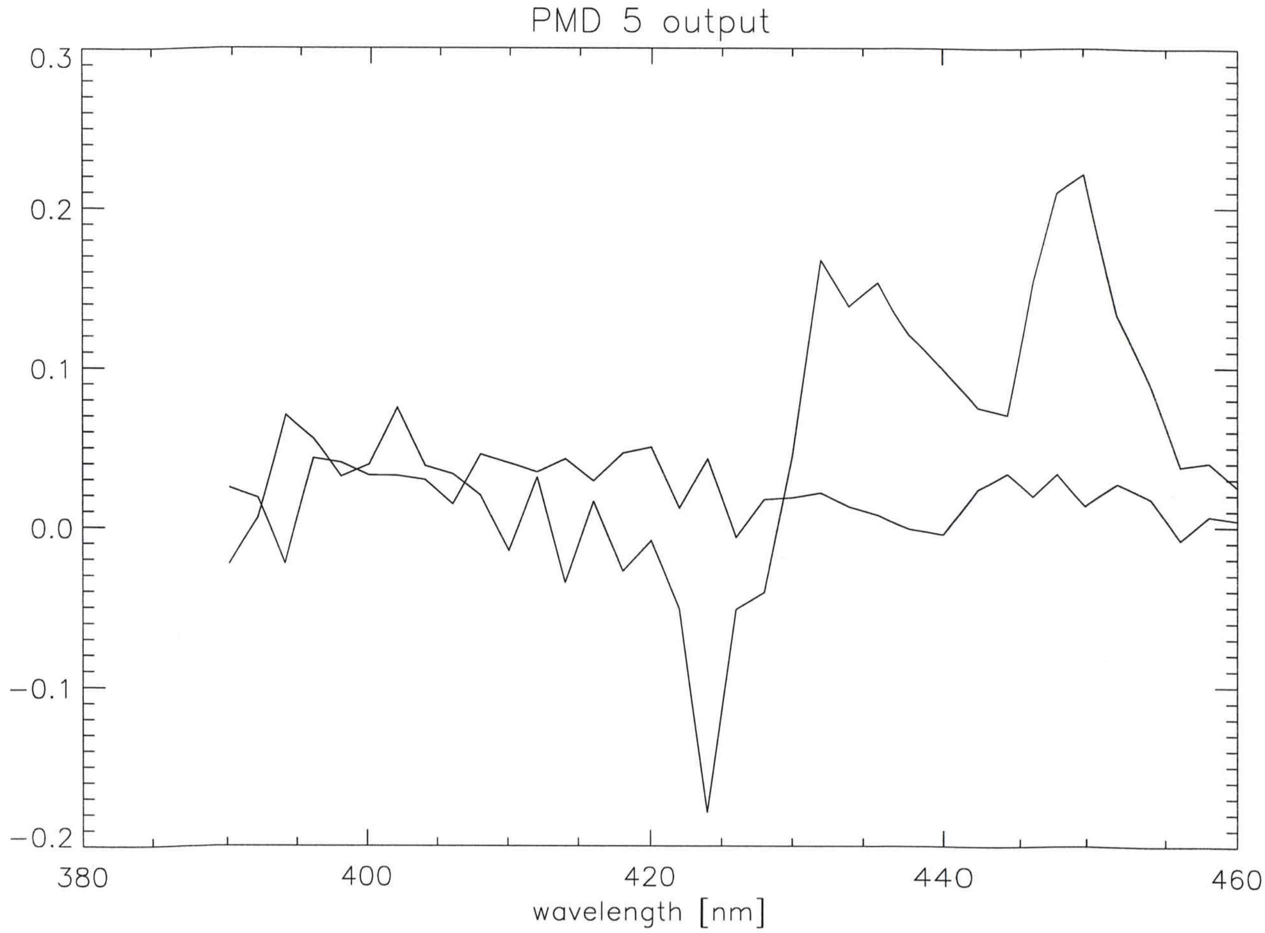
Control-file

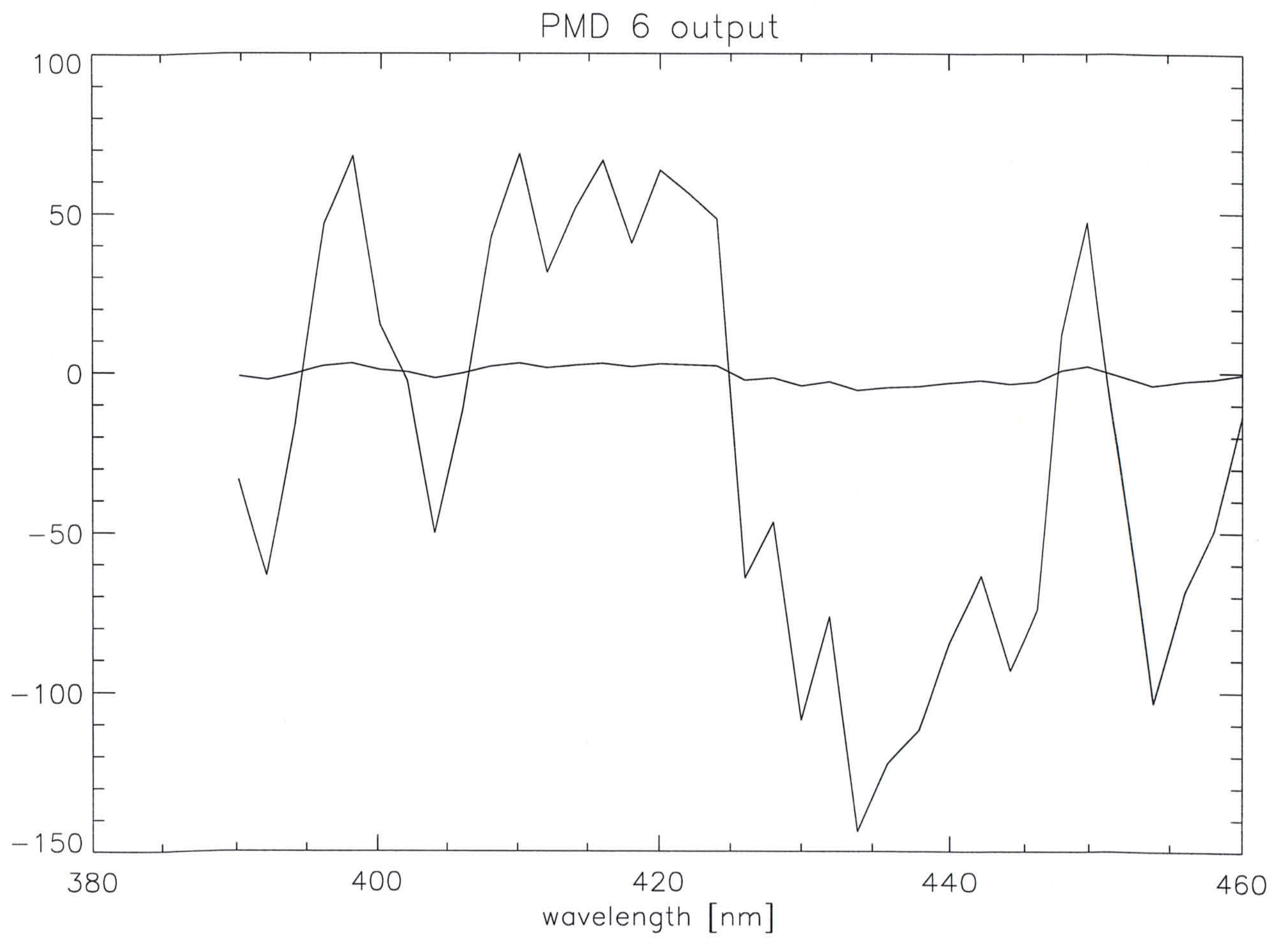

PMD 1 output
0.6
0.4
0.2
0.0
−0.2
−0.4
380
400
420
440
460
wavelength [nm]

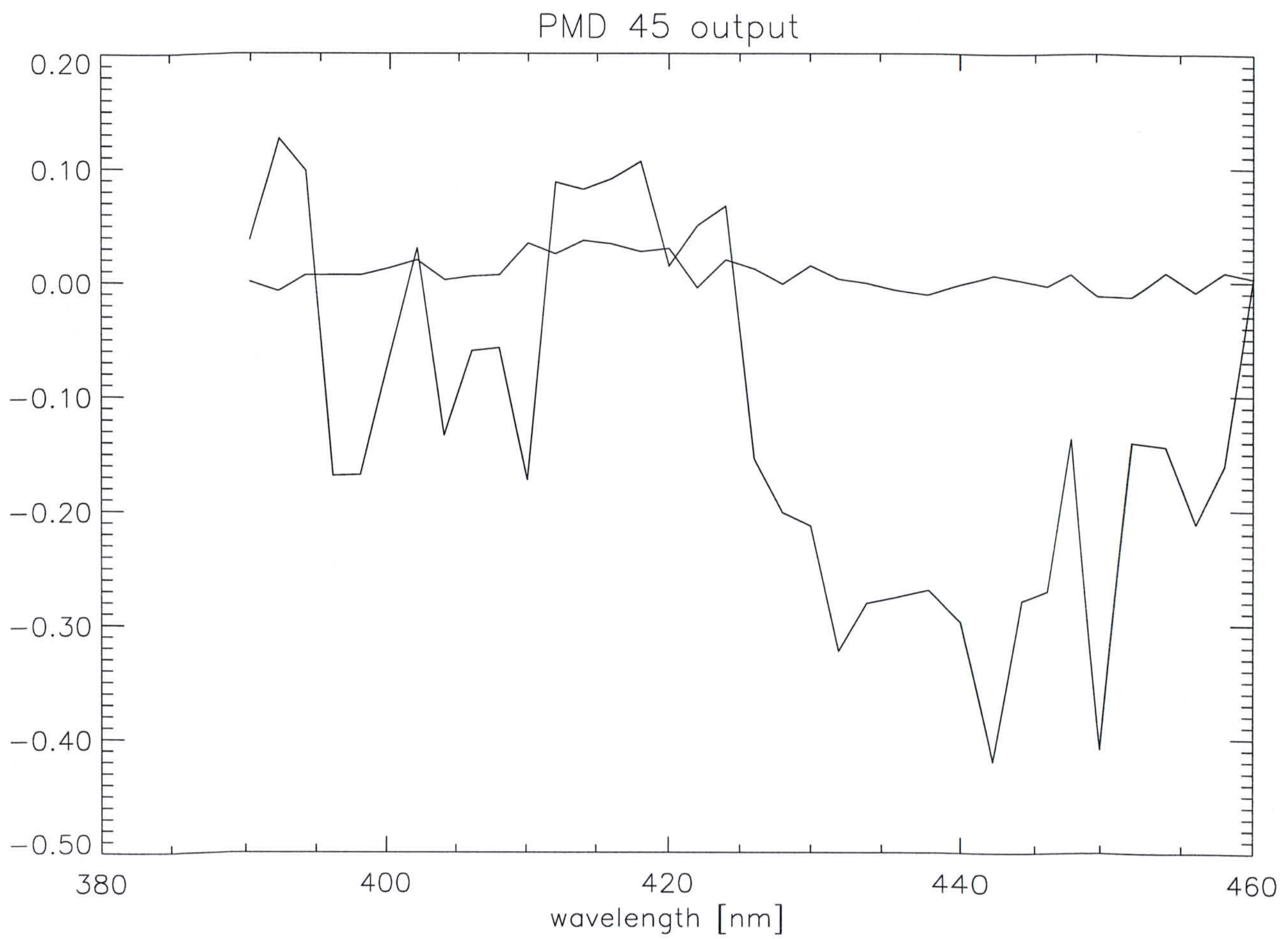

PMD 2 output
150
100
50
0
−50
380
400
420
440
460
wavelength [nm]

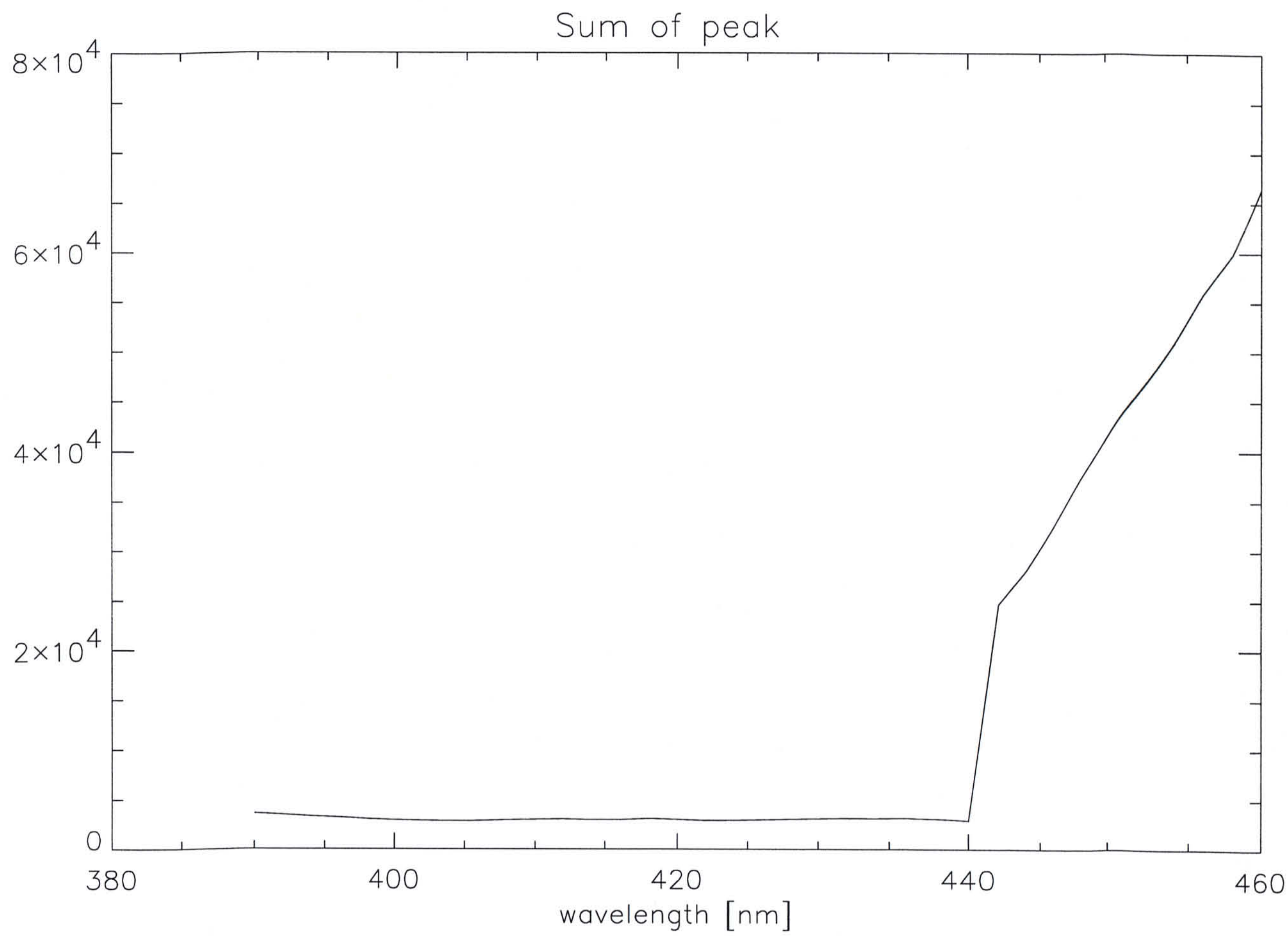

PMD 3 output
0.3
0.2
0.1
0.0
−0.1
380
400
420
440
460
wavelength [nm]


PMD 4 output
0.10
0.05
0.00
−0.05
−0.10
380
400
420
440
460
wavelength [nm]

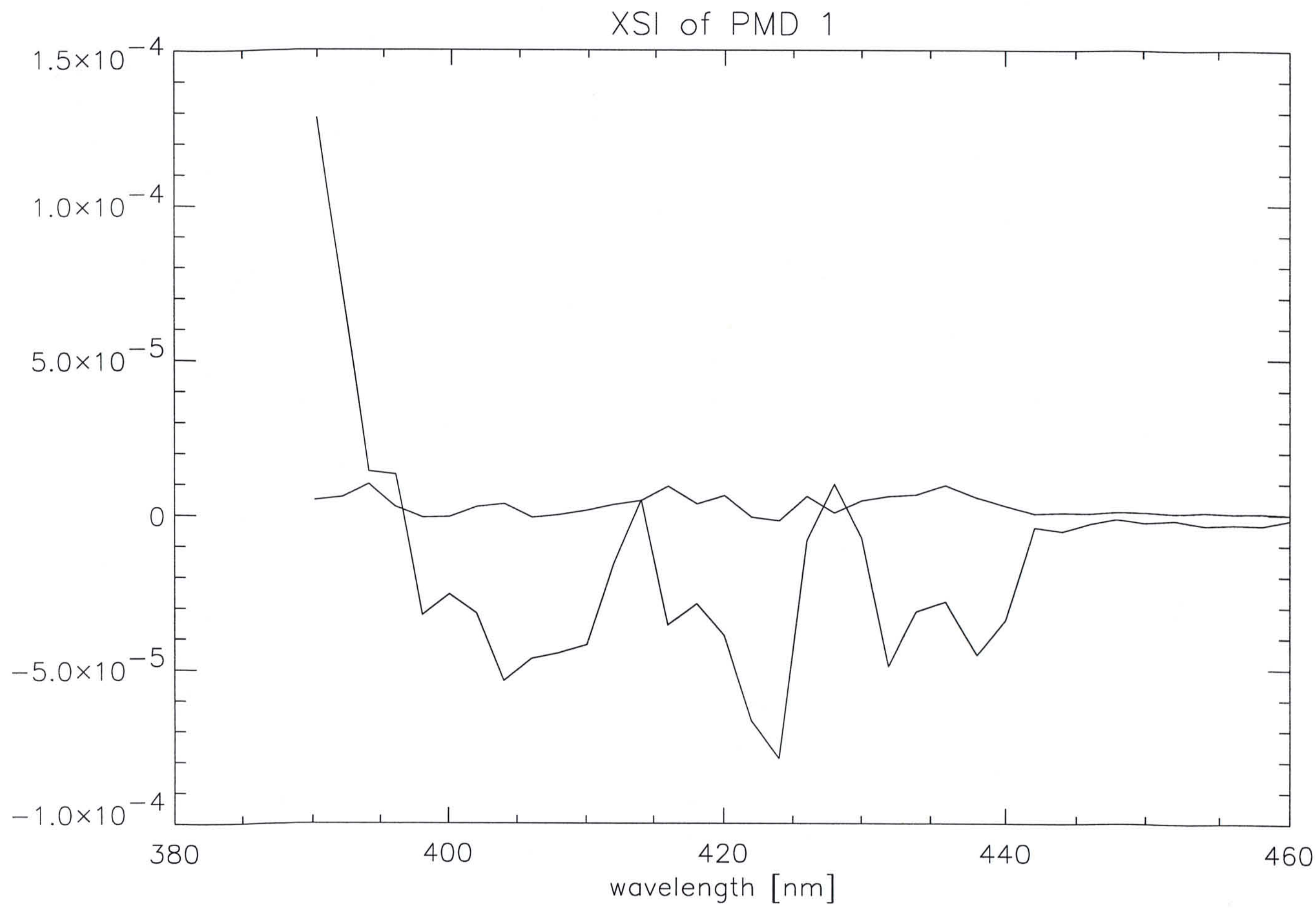

PMD 5 output
0.3
0.2
0.1
0.0
−0.1
−0.2
380
400
420
440
460
wavelength [nm]

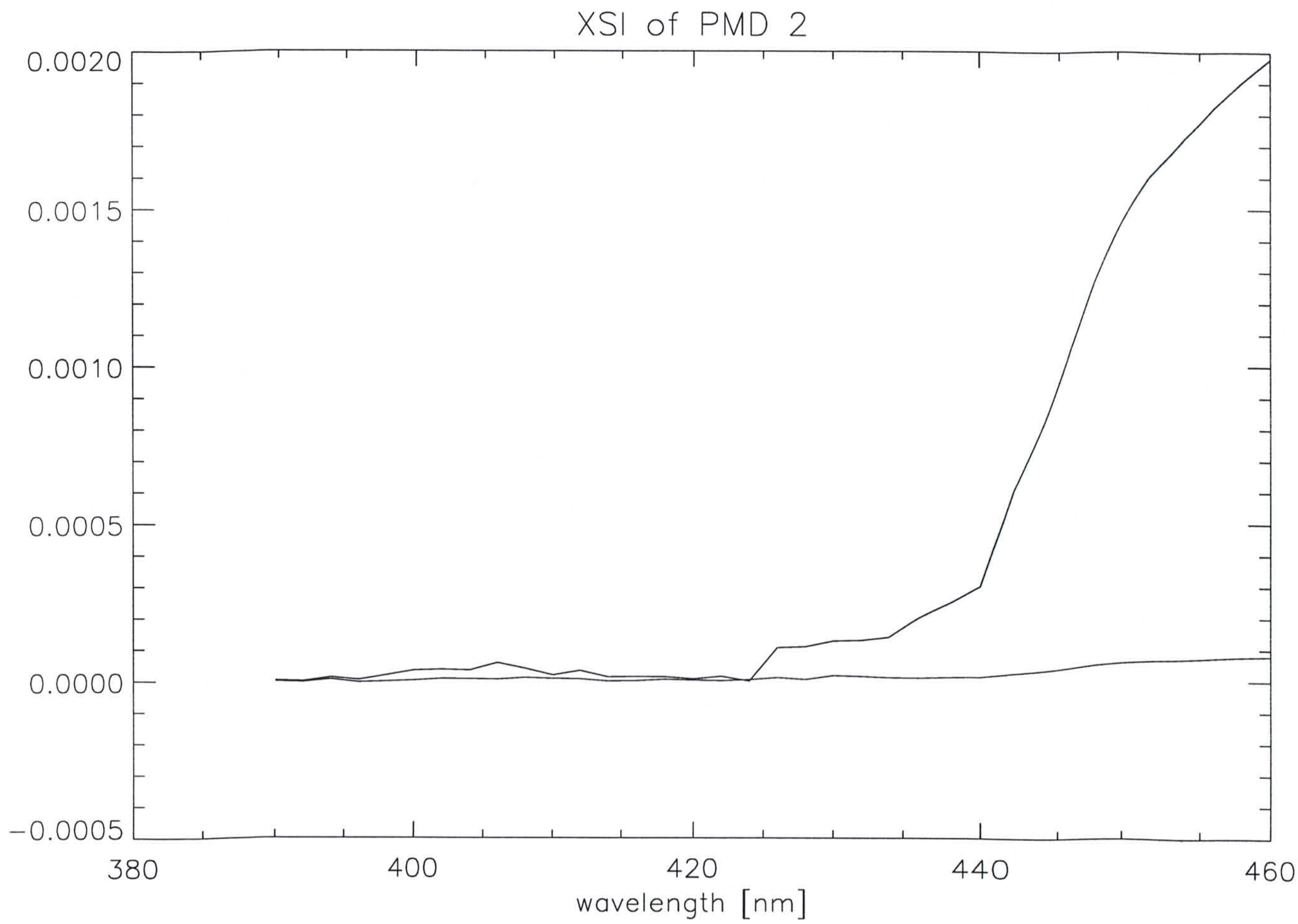

PMD 6 output
100
50
0
−50
−100
−150
380
400
420
440
460
wavelength [nm]

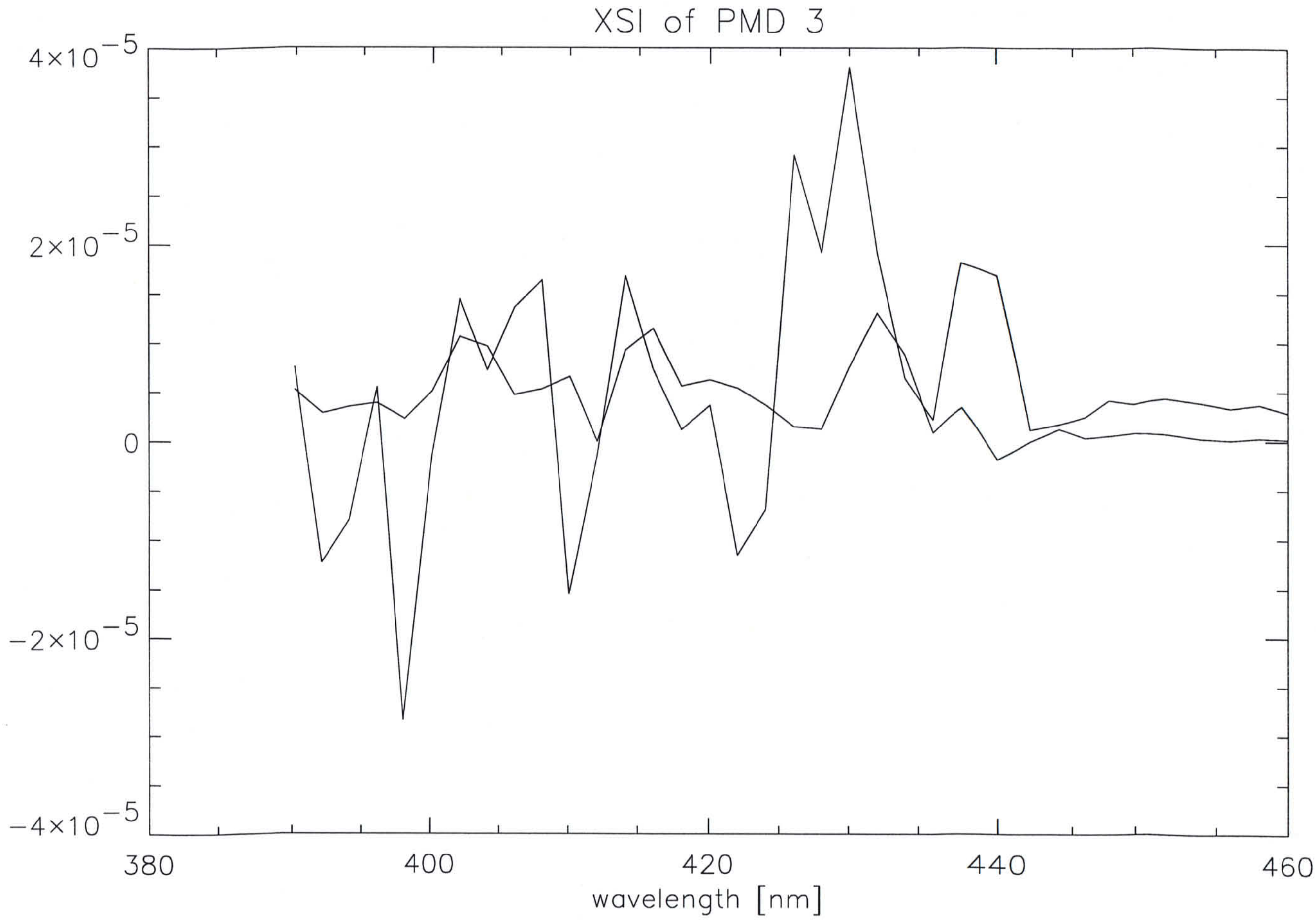

PMD 45 output
0.20
0.10
0.00
−0.10
−0.20
−0.30
−0.40
−0.50
380
400
420
440
460
wavelength [nm]

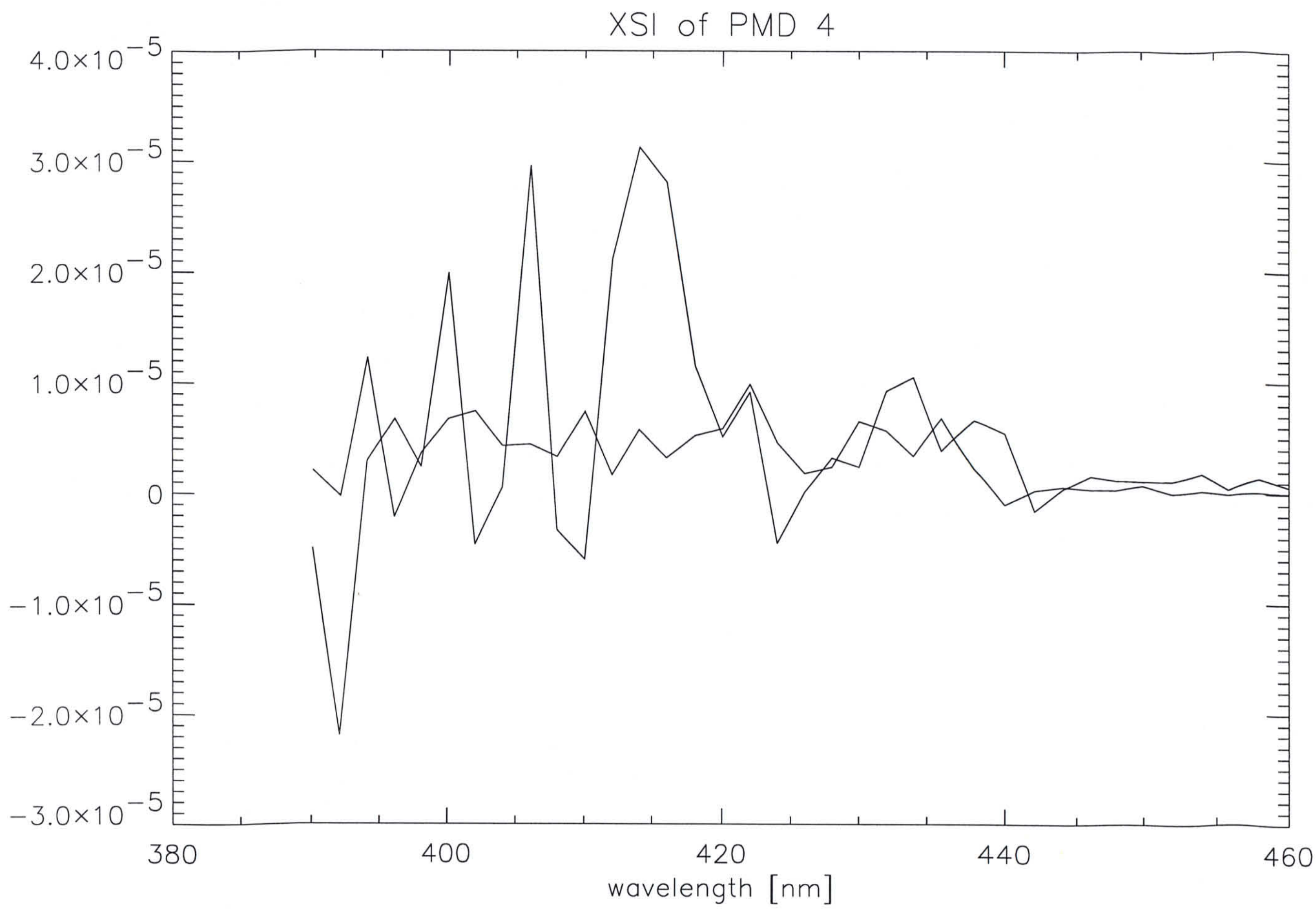


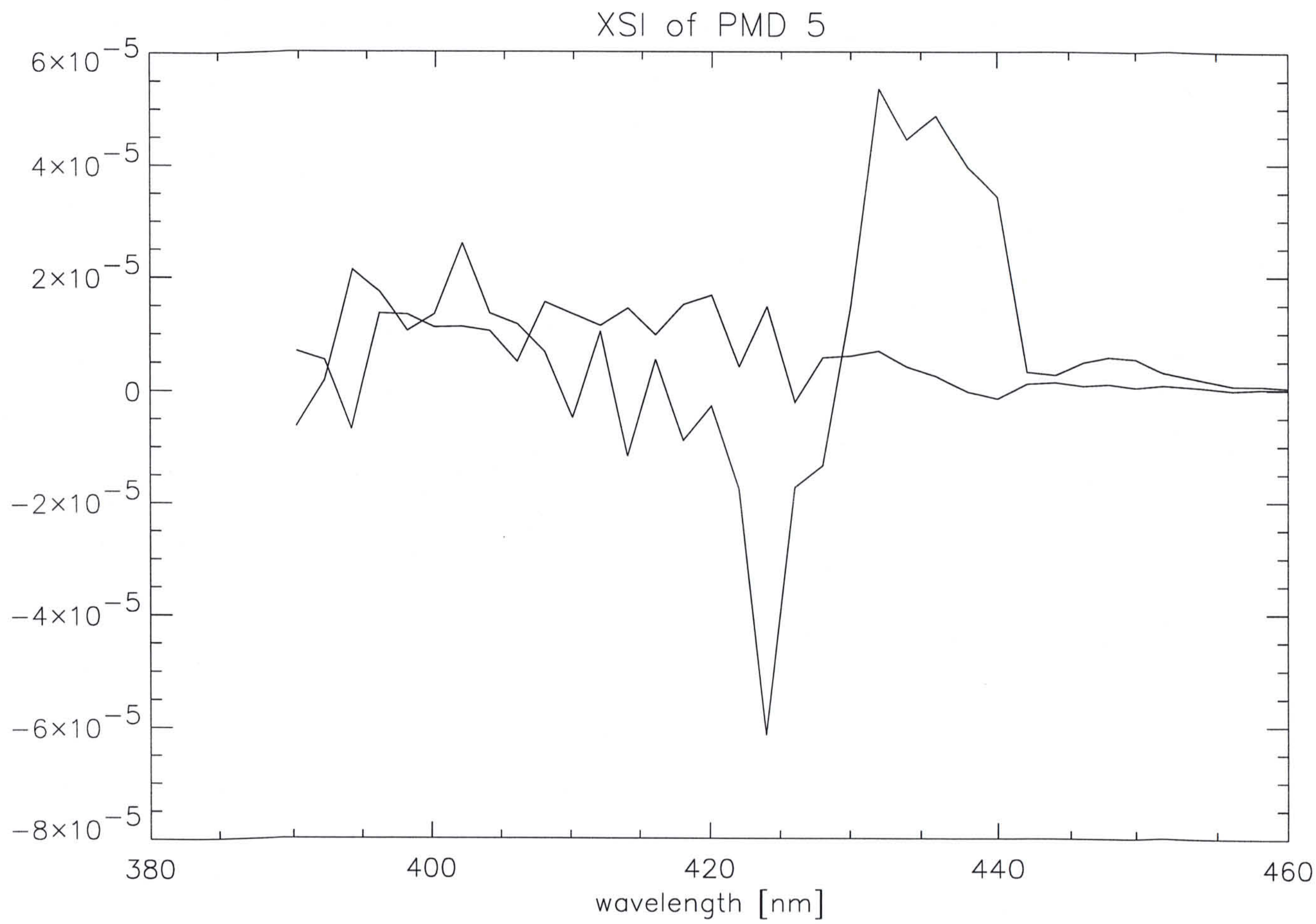
Sum of peak
8×10^4
6×10^4
4×10^4
2×10^4
0
380
400
420
440
460
wavelength [nm]


XSI of PMD 1
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
380
400
420
440
460
wavelength [nm]

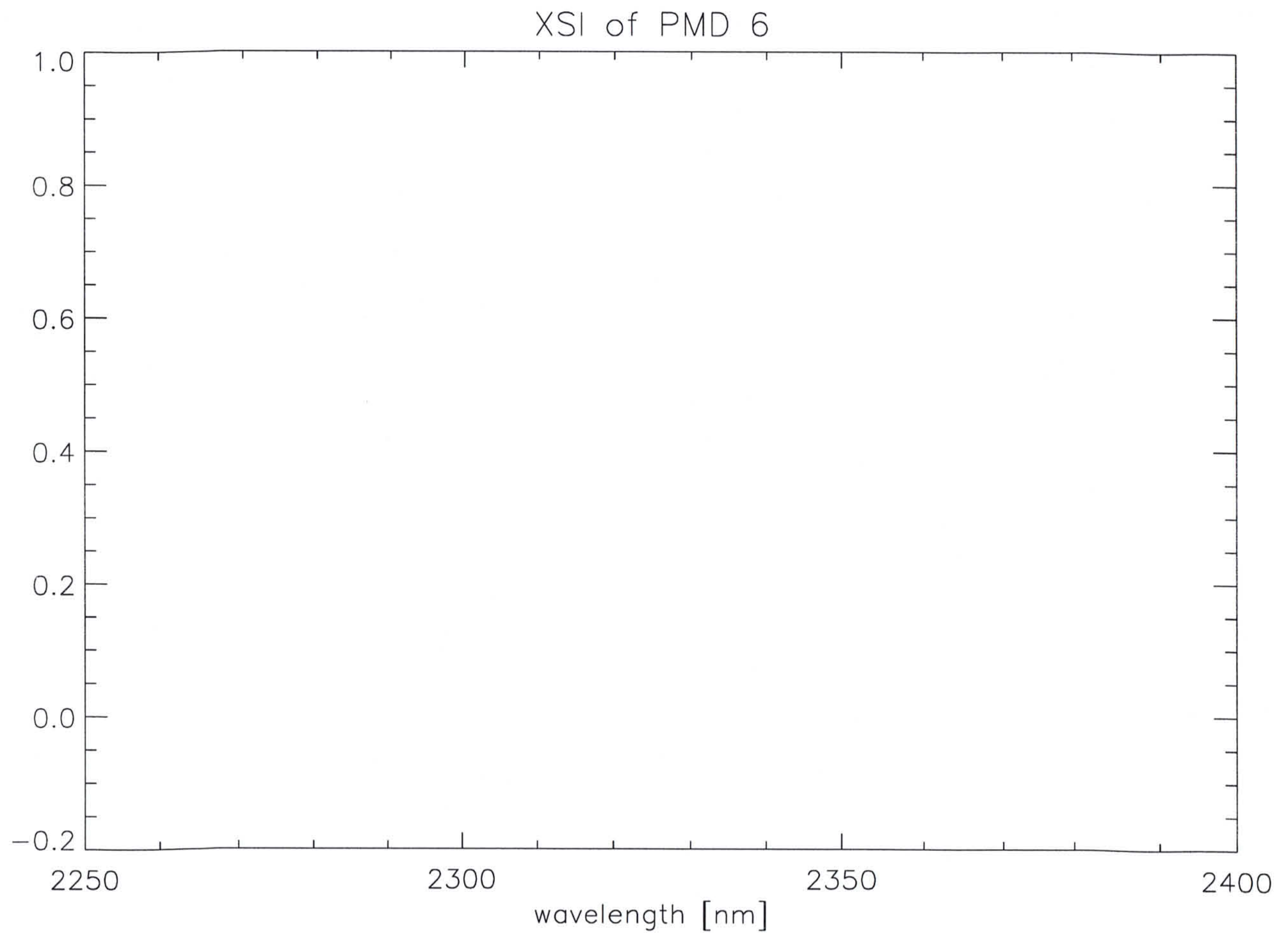

XSI of PMD 2
0.0020
0.0015
0.0010
0.0005
0.0000
−0.0005
380
400
420
440
460
wavelength [nm]


XSI of PMD 3
4×10^{-5}
2×10^{-5}
0
-2×10^{-5}
-4×10^{-5}
380
400
420
440
460
wavelength [nm]

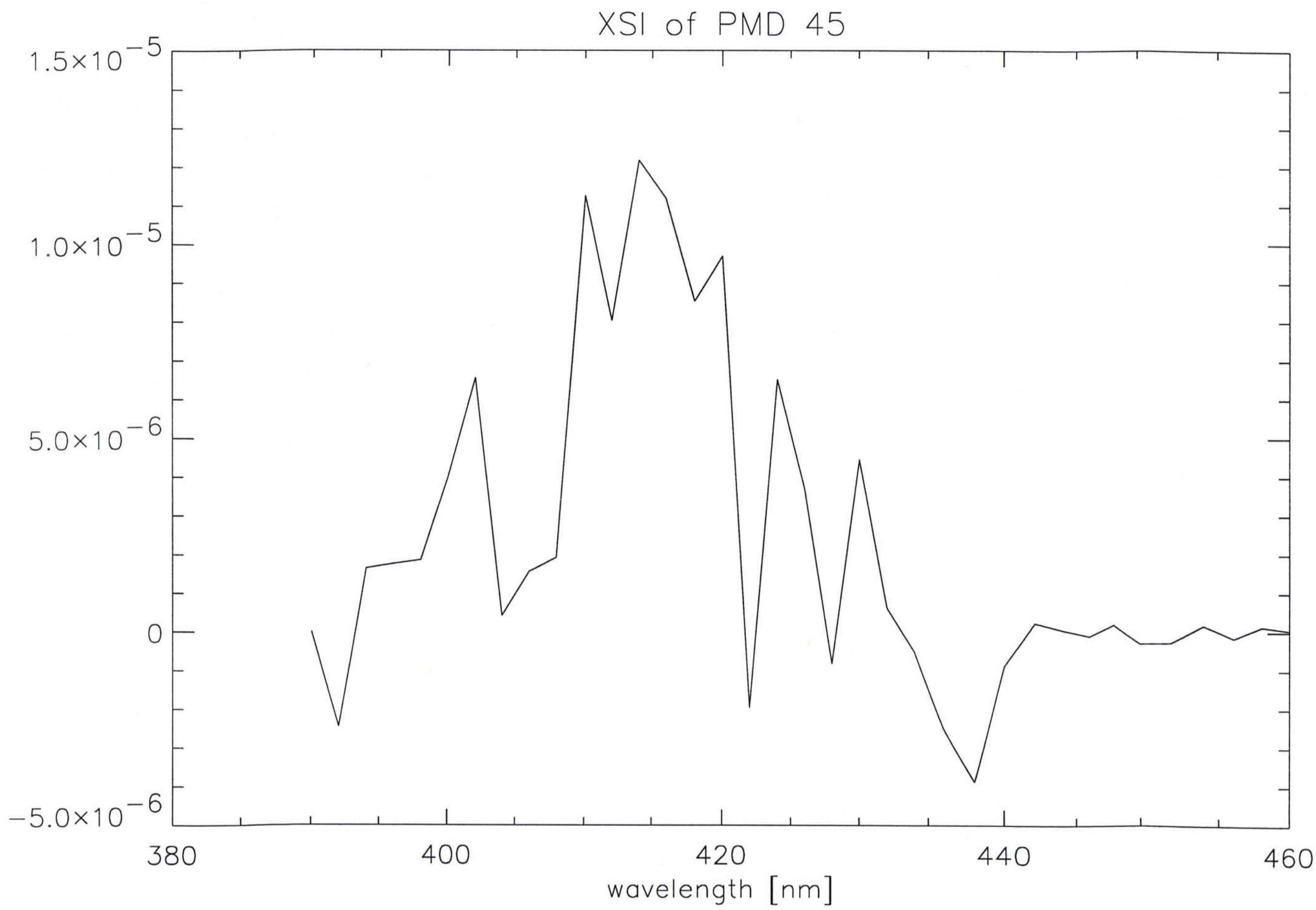

XSI of PMD 4
4.0×10^{-5}
3.0×10^{-5}
2.0×10^{-5}
1.0×10^{-5}
0
−1.0×10^{-5}
−2.0×10^{-5}
−3.0×10^{-5}
380
400
420
440
460
wavelength [nm]



XSI of PMD 5
6×10⁻⁵
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
−6×10⁻⁵
−8×10⁻⁵
380
400
420
440
460
wavelength [nm]



XSI of PMD 6
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
2250
2300
2350
2400
wavelength [nm]


XSI of PMD 45
1.5×10⁻⁵
1.0×10⁻⁵
5.0×10⁻⁶
0
−5.0×10⁻⁶
380
400
420
440
460
wavelength [nm]

```
Version:  0.1
Input files:  /disk1/scia/DATA-DIR/XSI-UV-II/5/control-file
 scia_28081998_014039290.egse_ltf.du1.avg.cal
 scia_28081998_014039290.egse_ltf.du2.avg.cal
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp390.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp392.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp394.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp396.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp398.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp400.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp402.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp404.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp406.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp408.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp410.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp412.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp414.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp416.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp418.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp420.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp422.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp424.avg.c
   isk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp426.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp428.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp430.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp432.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp434.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp436.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp438.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp440.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp442.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp444.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp446.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp448.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp450.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp452.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp454.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp456.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp458.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.mp460.avg.c
Processing:
Computation of XSI
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/280898/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/280898/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/280898/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/280898/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/280898/stray.da
Processing time: Fri Aug 28 14:57:04 1998
Output file name:
/disk1/scia/DATA-DIR/XSI-UV-II/5/scia_28081998_014039290.egse_ltf.du1.avg.p1.c
```

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Ralph Snel 28-08-98	
	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/ETA-AMBIENT ; ls -l highest number in directory?	1	Note: In window DATA-DIR (B)
	New directory: mkdir <B+1> ls -l What's now the highest number in directory?	2	(C)
	<C> should be <B> + 1	Y / N	
	directory name is:	~/DATA-DIR/ETA-AMBIENT/<C>	(DIR-NAME)
Copy input files			
	Let <I1> be the ETA-UV calibration file with the extension '*.a.p1.cal' (i.e., full path name of <I1> is something like: ~/DATA-DIR/ETA-UV/<number>/<abc>.a.p1.cal) Full path name of <I1>	ETA-UV/3/scia-20081998-110940101	In DATA-DIR window (I1)
	Let <I2> be the ETA-UV calibration file with the extension '*.c.p1.cal' (i.e., full path name of <I2> is something like: ~/DATA-DIR/ETA-UV/<number>/<abc>.c.p1.cal) Full path name of <I2>	/3/scia-20081998_110940101	In DATA-DIR window (I2)

Let <I3> be the ETA-UV calibration file with the extension '*.e.p1.cal' (i.e., full path name of <I3> is something like: `~/DATA-DIR/ETA-UV/<number>/<abc>.e.p1.cal`)

Full path name of <I3> ____idem____ In DATA-DIR window (I3)

Let <I4> be the ETA-IR calibration file with the extionsion '*.b.p1.cal' (i.e., full path name of <I4> is something like: `~/DATA-DIR/ETA-IR/<number>/<abc>.b.p1.cal`)

Full path name of <I4> ETA-IR/7/scia-27081998-104642586 (I4)

Let <I5> be the ETA-IR calibration file with the extionsion '*.d.p1.cal' (i.e., full path name of <I4> is something like: `~/DATA-DIR/ETA-IR/<number>/<abc>.d.p1.cal`)

Full path name of <I5> ____idem____ (I5)

```
cp <I1> <DIR-NAME>
cp <I2> <DIR-NAME>
cp <I3> <DIR-NAME>
cp <I4> <DIR-NAME>
cp <I5> <DIR-NAME>

cp <I1>.log <DIR-NAME>

cp <I2>.log <DIR-NAME>

cp <I3>.log <DIR-NAME>

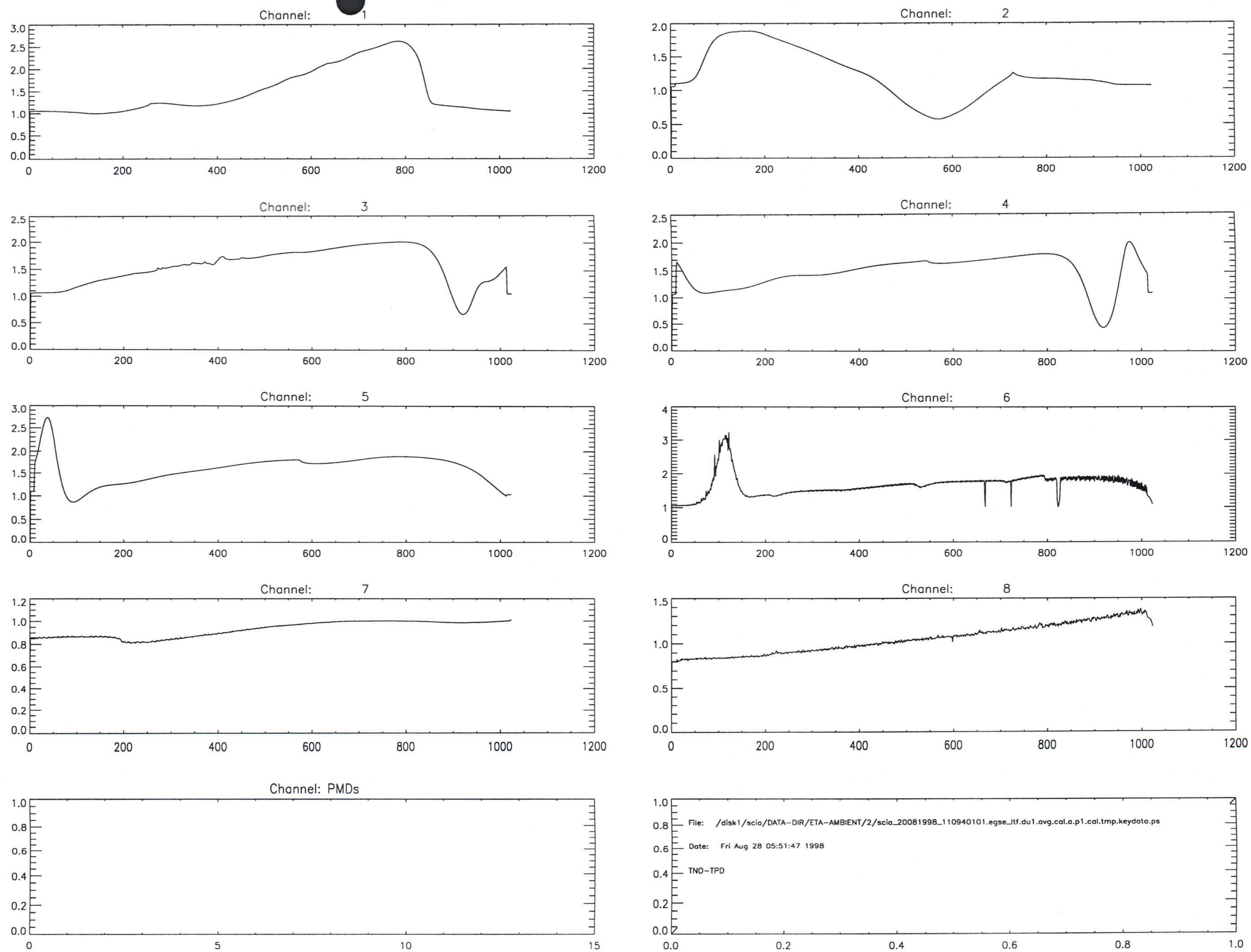
cp <I4>.log <DIR-NAME>

cp <I5>.log <DIR-NAME>
ls -l <DIR-NAME>
```

Are <I1> ,..., <I5> present in <DIR-NAME>? Y / N

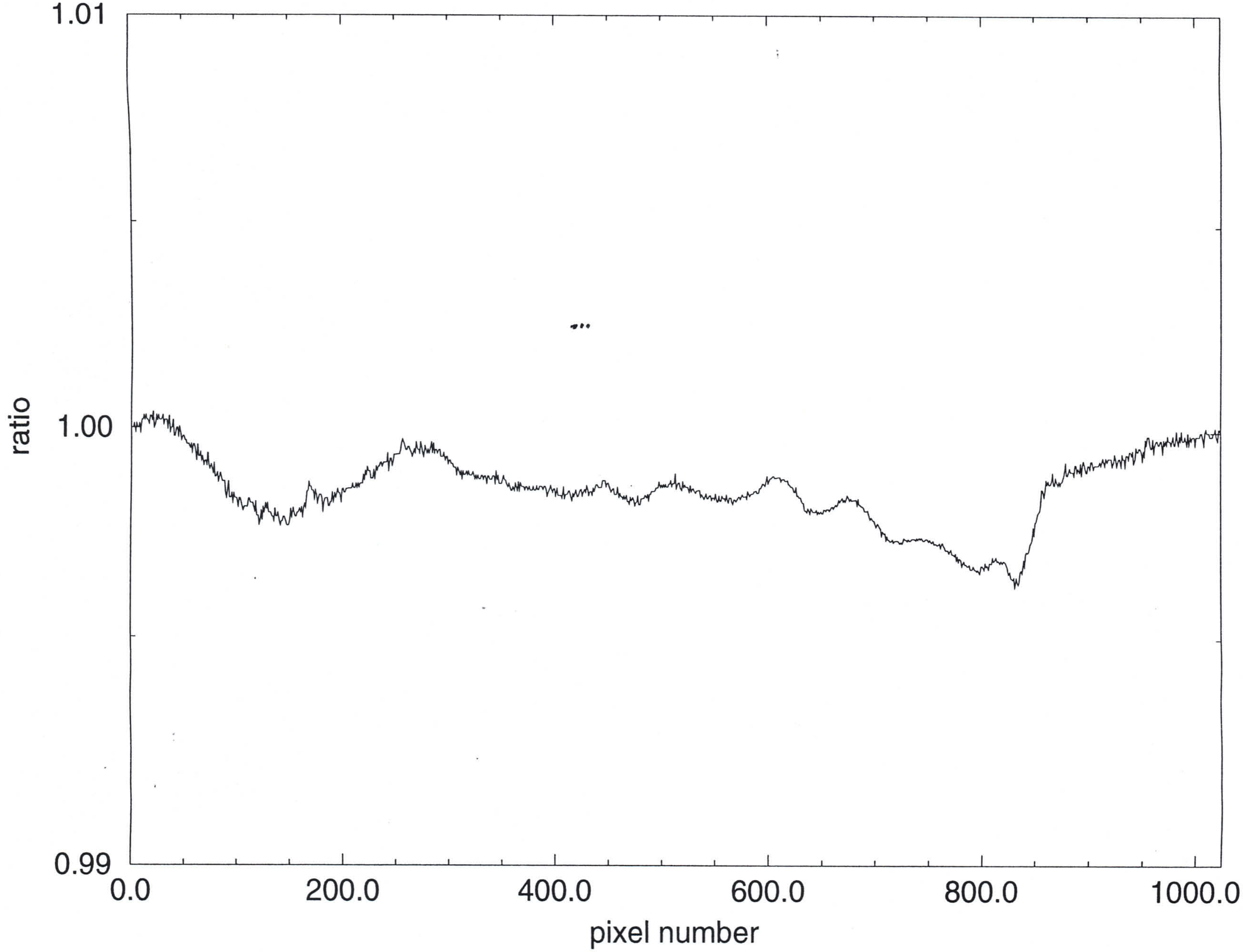
ETA processing

Run ETA	idl do_eta_ambient		In IDL Window
Check ETA	ls -l *		In DATA-DIR window
	Size of file <I1>.tmp.keydata	259 k	
	Size of file <I1>.eta-nadir.<angle>.keydata	idem	
	Size of file <I1>.eta-limb.<angle-comb>.keydata	idem	
	Size of file <I1>.zeta.<angle-comb>.keydata	idem	
	where <angle-comb> is an ASM-ESM angle combination, and <angle> is a ESM angle.		
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). Name of backup CDs		See analysis sheet BackUp
Sign:	Name		
	Date and time	28-8-98, 03:58 UTC	
	Signature	R9	


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/ETA-AMBIENT/2/scia_20081998_110940101.egse_ltf.du1.avg.cal.a.p1.cal.tmp.keydata.ps
Date: Fri Aug 28 05:51:47 1998
TNO-TPD

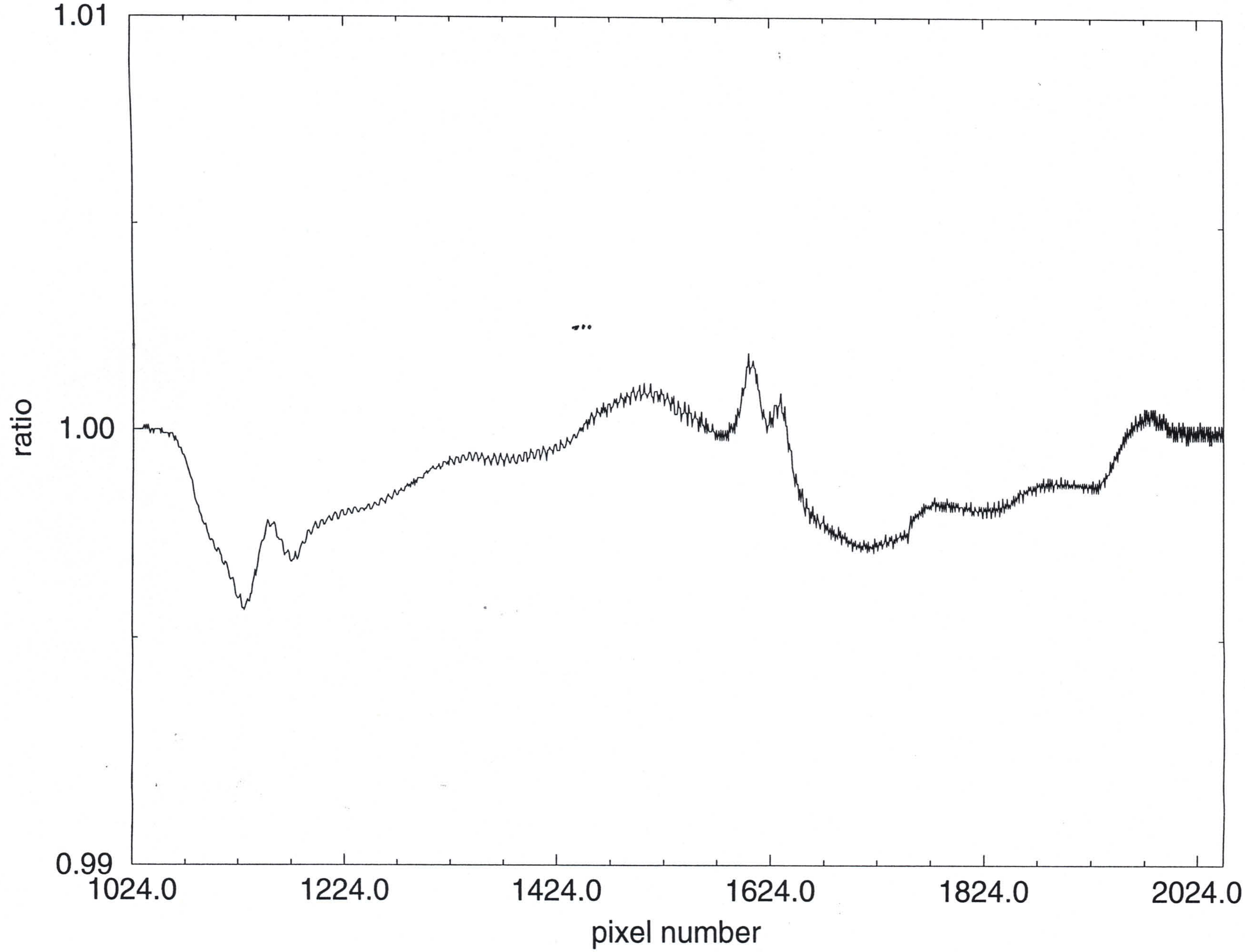
Ratio ETA–AMBIENT

DM low/high



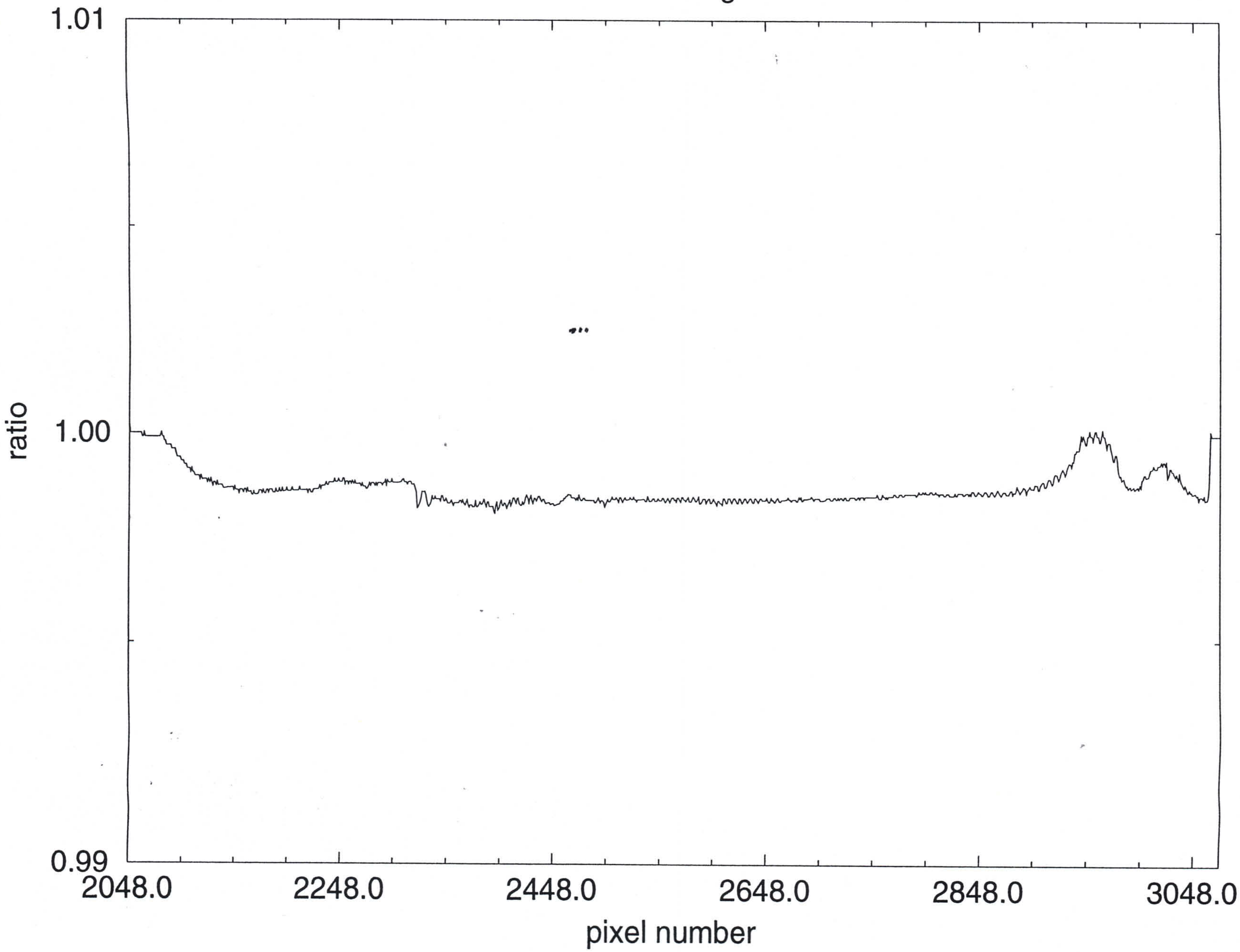
Ratio ETA−AMBIENT

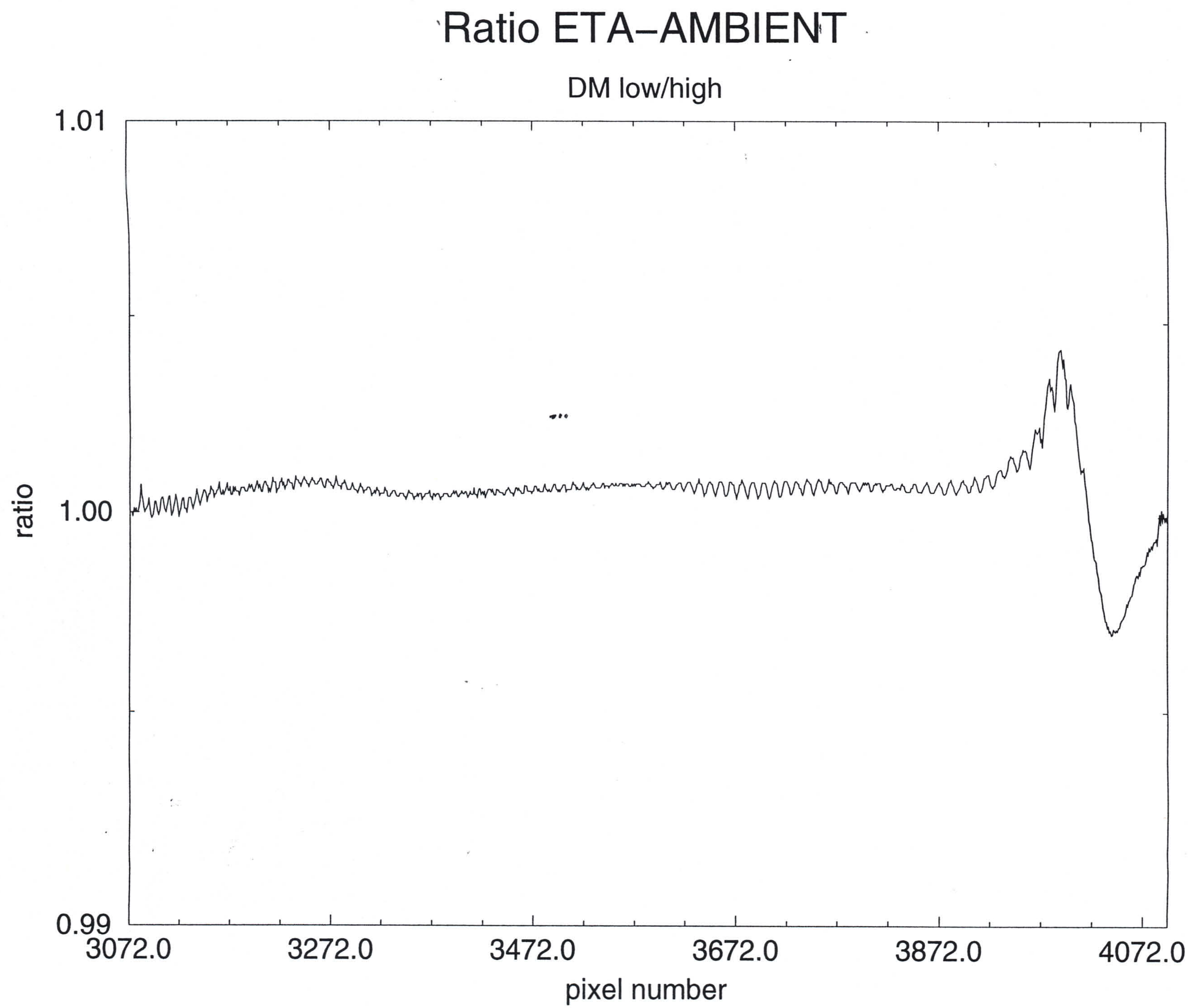
DM low/high



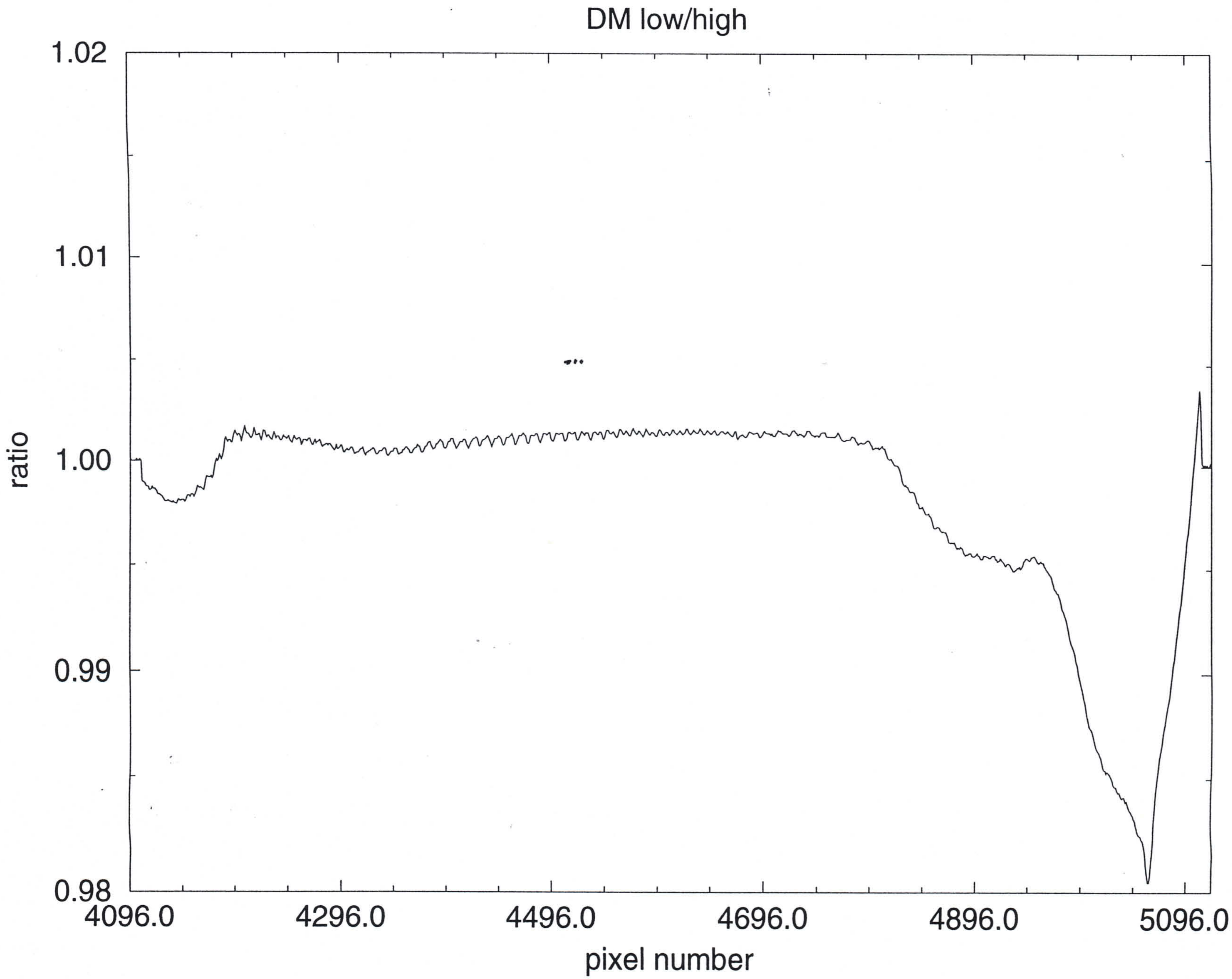
Ratio ETA–AMBIENT

DM low/high



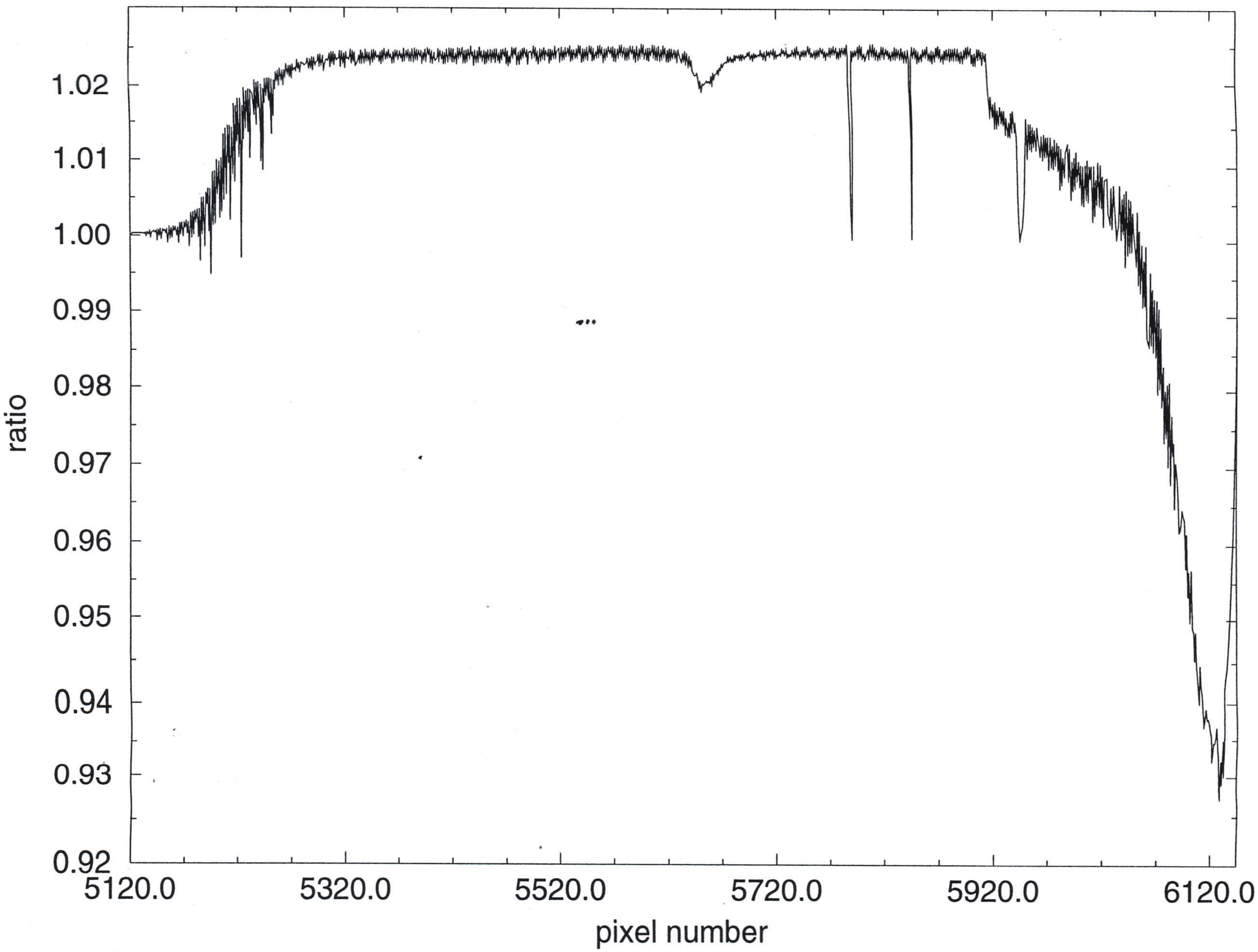

Ratio ETA–AMBIENT
DM low/high
1.01
1.00
0.99
ratio
3072.0
3272.0
3472.0
3672.0
3872.0
4072.0
pixel number

Ratio ETA–AMBIENT



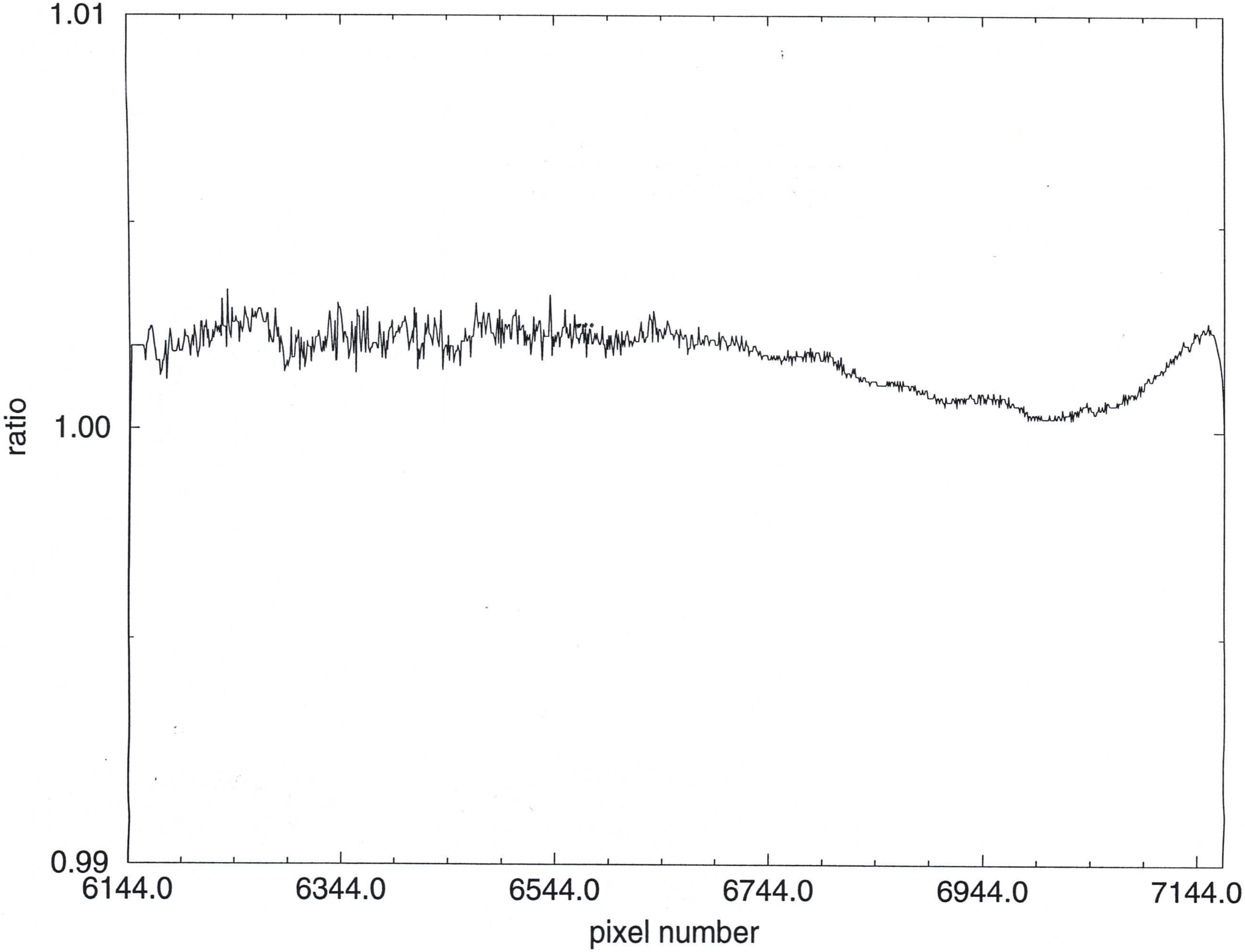
Ratio ETA–AMBIENT

DM low/high

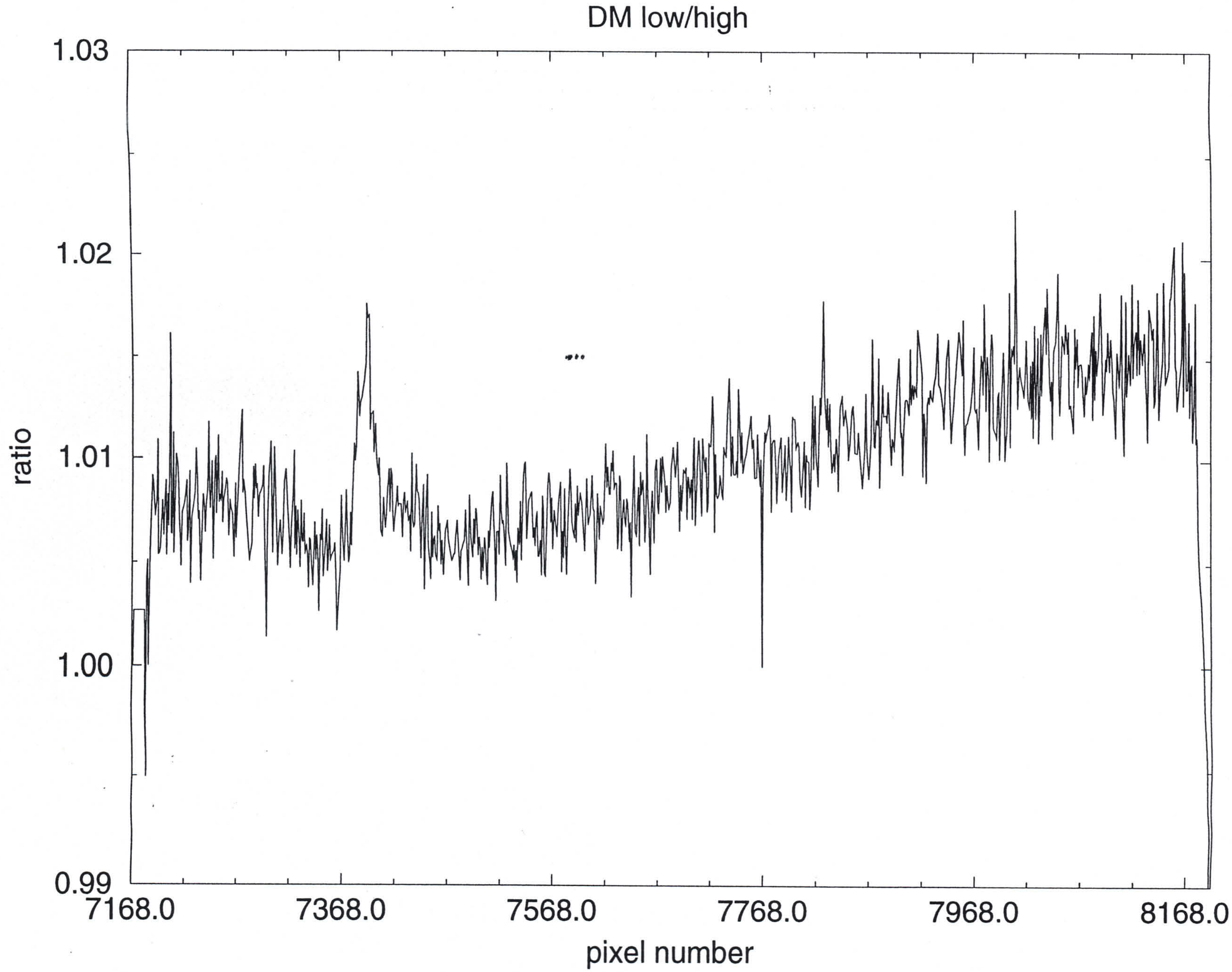


Ratio ETA−AMBIENT

DM low/high



Ratio ETA–AMBIENT



LOG SHEET SCHIAMACHY CALIBRATION

Date/Time	Description of action	Measurement directory
28-8-1998 5:25 UTC	We are (team 3) performing a extra internal calibration measurement WLS_INT and SLS_INT for analysing the Xsi measurements with corr-files at the same temperture. We call this step 14-5a	

Formal Run of Measurement

(Measurement ID) WLS_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	+45.00	deg
Elevation	+10.523	deg

step 14-59 (extra)

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	44, 45							

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	-1	-	-	-	-	-	-	0	1	90	

Measurement Data Description

Test Purpose	UID 25
Remark	
Data Directory	~~[illegible]~~ 0240_06-30-53 – WLS-INT

Signatures

	Date	Signature
Issued	28-8-1998	[signature]
Performed	28-8-1998	[signature]

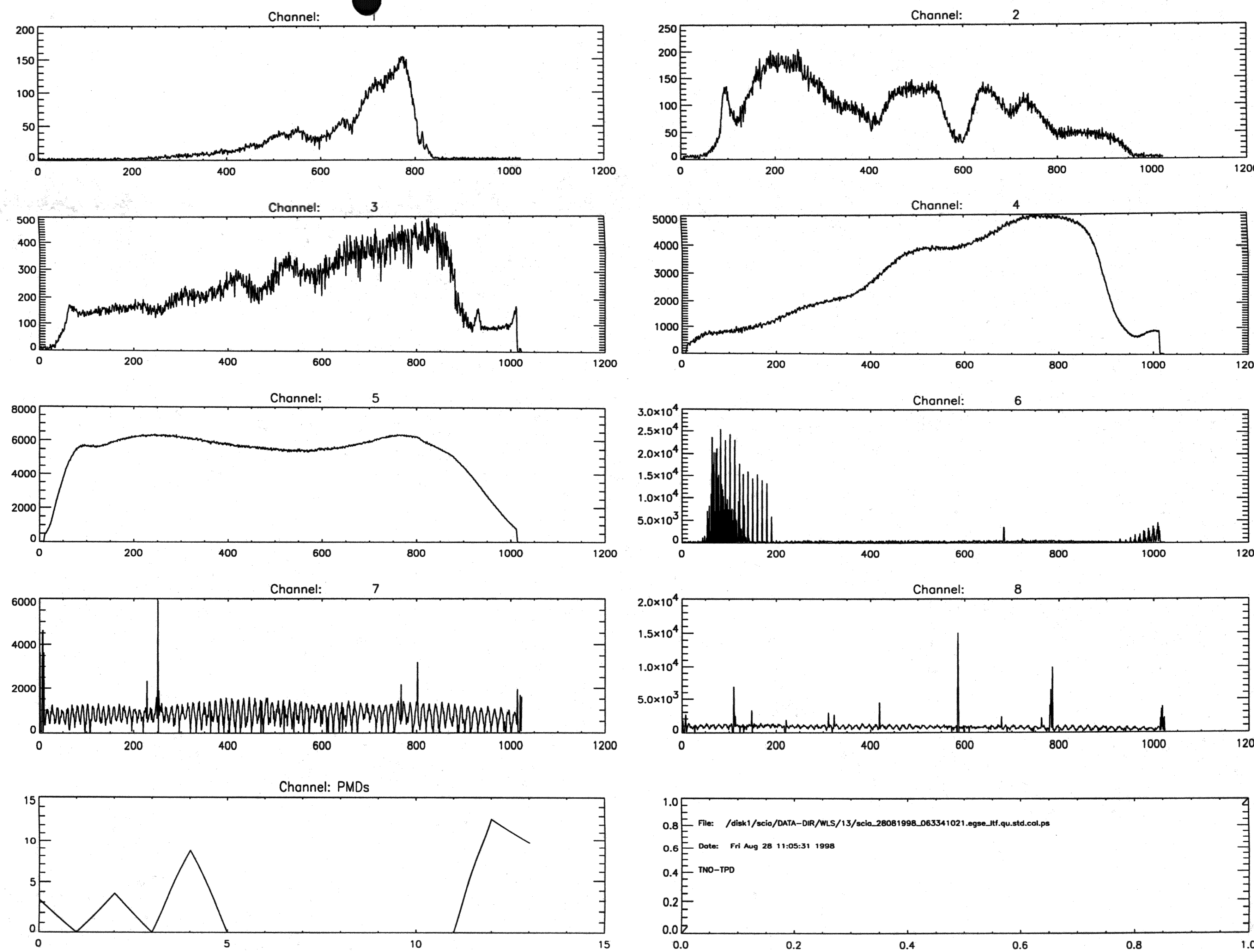
STEP	ACTION	RESULT	MARKER
Intro	Your name:	Dion Oude Lansink	
	Date:	28-8-'98	
	What's the name of the (main) data input files generated by the EGSE? (*.dat)	scia_28081998-06334102.dat	(A)
	Setup a three-window configuration on your SUN.		See course descr.
			Note: In window DATA-DIR
Cnstr directory	`cd ~/DATA-DIR/WLS ; ls -l`		
	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/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).		In DATA-DIR window
	What is the valueof the correction subdirectory corresponding to the current date.	280898	
	When running the PPG analysis, you will be asked to select this direcotory when storing the resulting PPG correction file.		

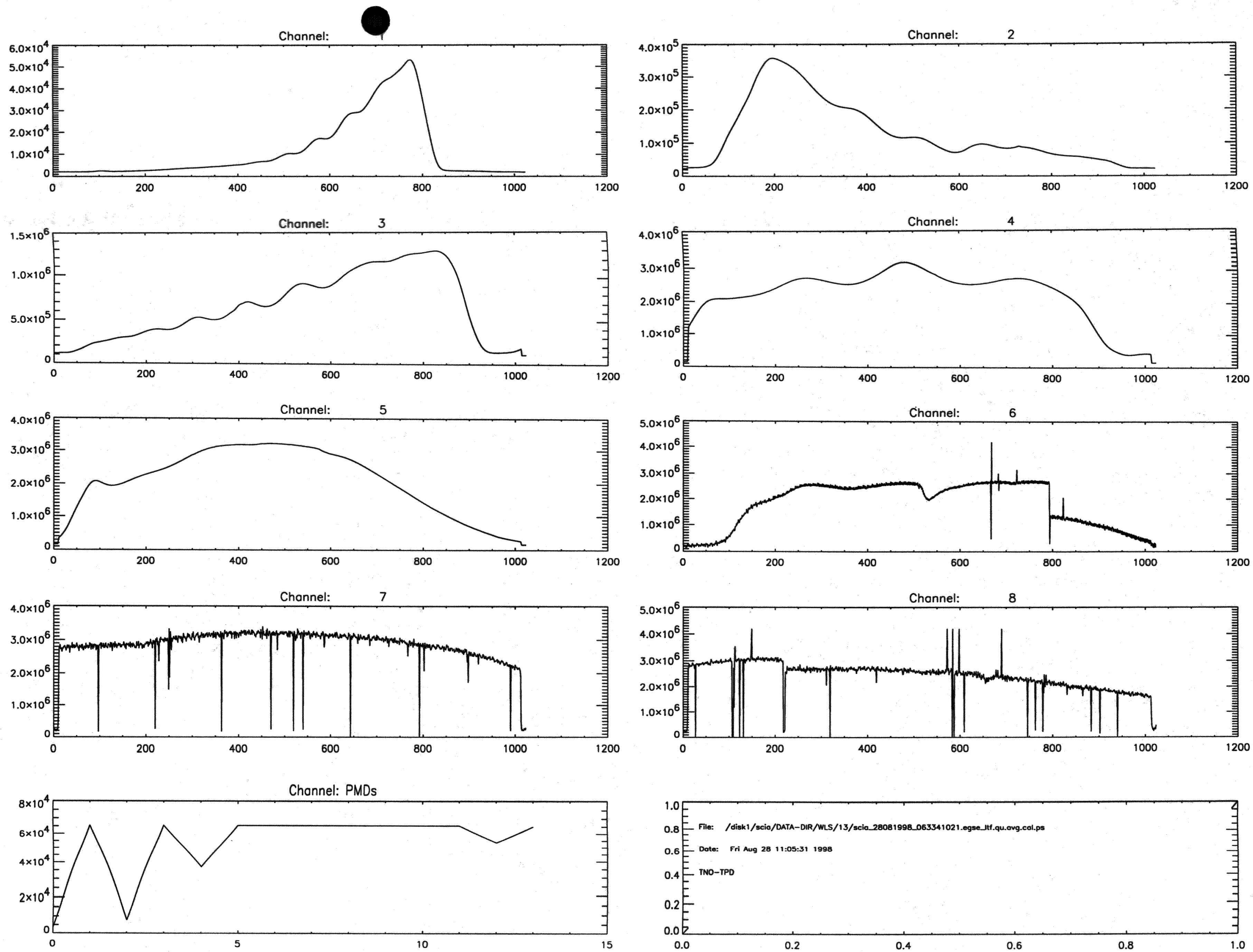
Cnstr EGSE_LTF	`cal_raw2ltf .` (Error messages are not necessarily fatal; check with SOLAN --in solan window-- whether output file is okay: there should be a signal present, and `dremark1` labels should be filled) `ls -l *.egse_ltf`		Note: In window DATA-DIR; your current directory should be ~/DATA-DIR/WLS/<C>; don't forget the dot !!! May take more than 15 mins.
	What's the name of the egse_ltf file	A.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:	146 Kb	should be approx 150Kb
	White light file: `ls -l *.wu*.avg.cal`		
	size:	146 Kb	should be approx 150Kb

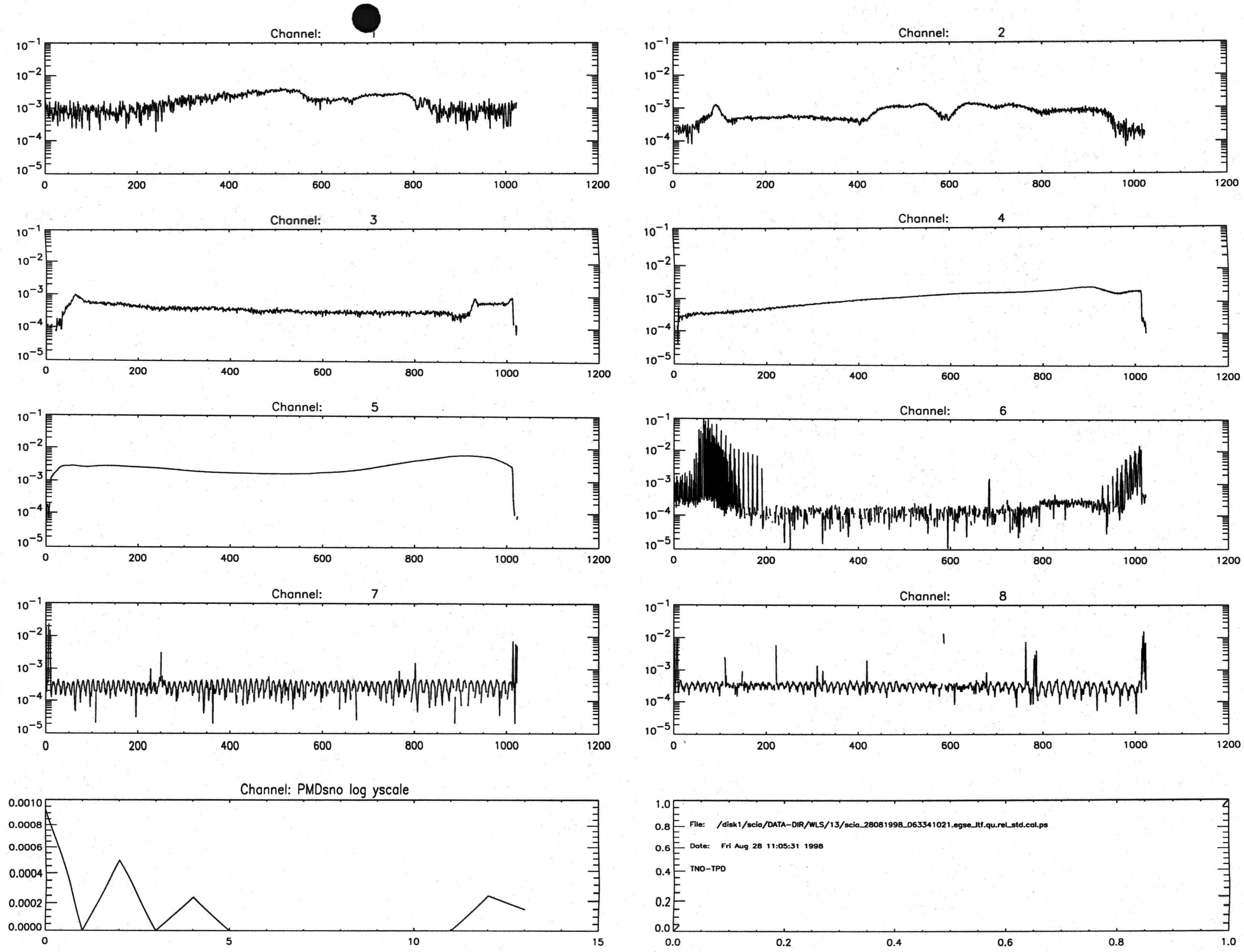
Note: all files should be present, if not:
(a) Check file <D> using SOLAN and check whether DU, WS and WP labels are present in dremark1 labels
(b) Check if enough disk space is available (Unix command `df -k | more`).

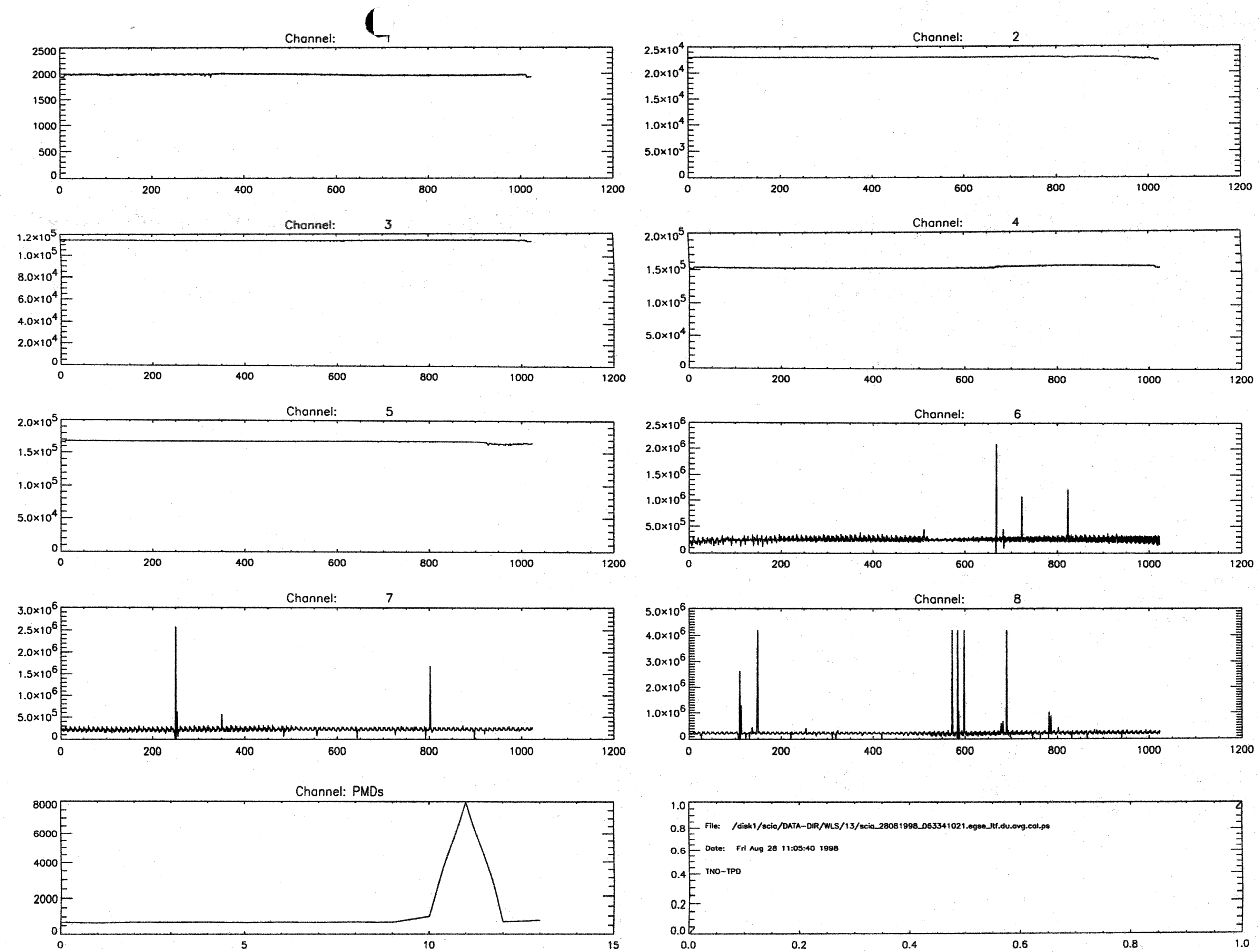
Print postscript	Print postscript files: `lpr -P<printer> *.ps`	
	Contents dark file `*du*.avg.cal.ps` should be approx. constant within channels:	Y / N
	Contentsof file `*wu*.avg.cal.ps` should resemble white light source:	Y / N
	Contents of `*rel_std*.ps` files should be smaller than 0.01 (pixel 300 -- 800) for all channels.	Y / N

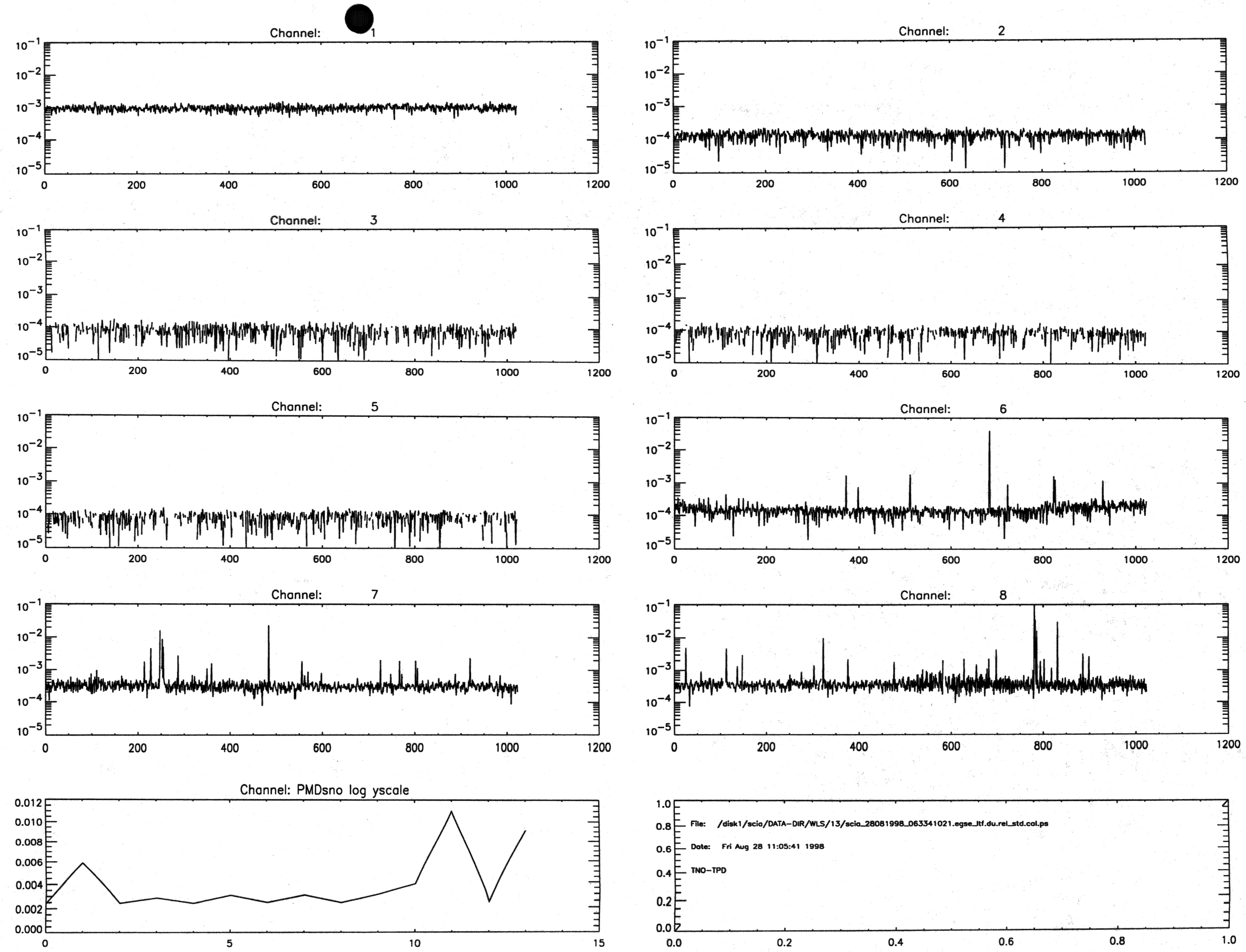
	If not, value is:	/	
	Add postscript images to logbook, done	Y / N	
Print logfiles	lpr -P<printer> *.log Add logfiles to logbook, done	Y / N	
PPG processing			
Run PPG	idl do_ppg		In IDL window
Check PPG	ls -l *		In DATA-DIR Window
	Size of file *.du*.cal.ppg.cal	146 kB	should be approx 150Kb
	Size of file *.du*.cal.ppg.cal.log	363	
	Size of file *.du*.cal.ppg.~~cal~~.ps	146 kB	
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		
Sign:	Name	Dion Oude Lansink	
	Date and time	28-8-98	


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/WLS/13/scia_28081998_063341021.egse_ltf.qu.std.col.ps
Date: Fri Aug 28 11:05:31 1998
TNO-TPD

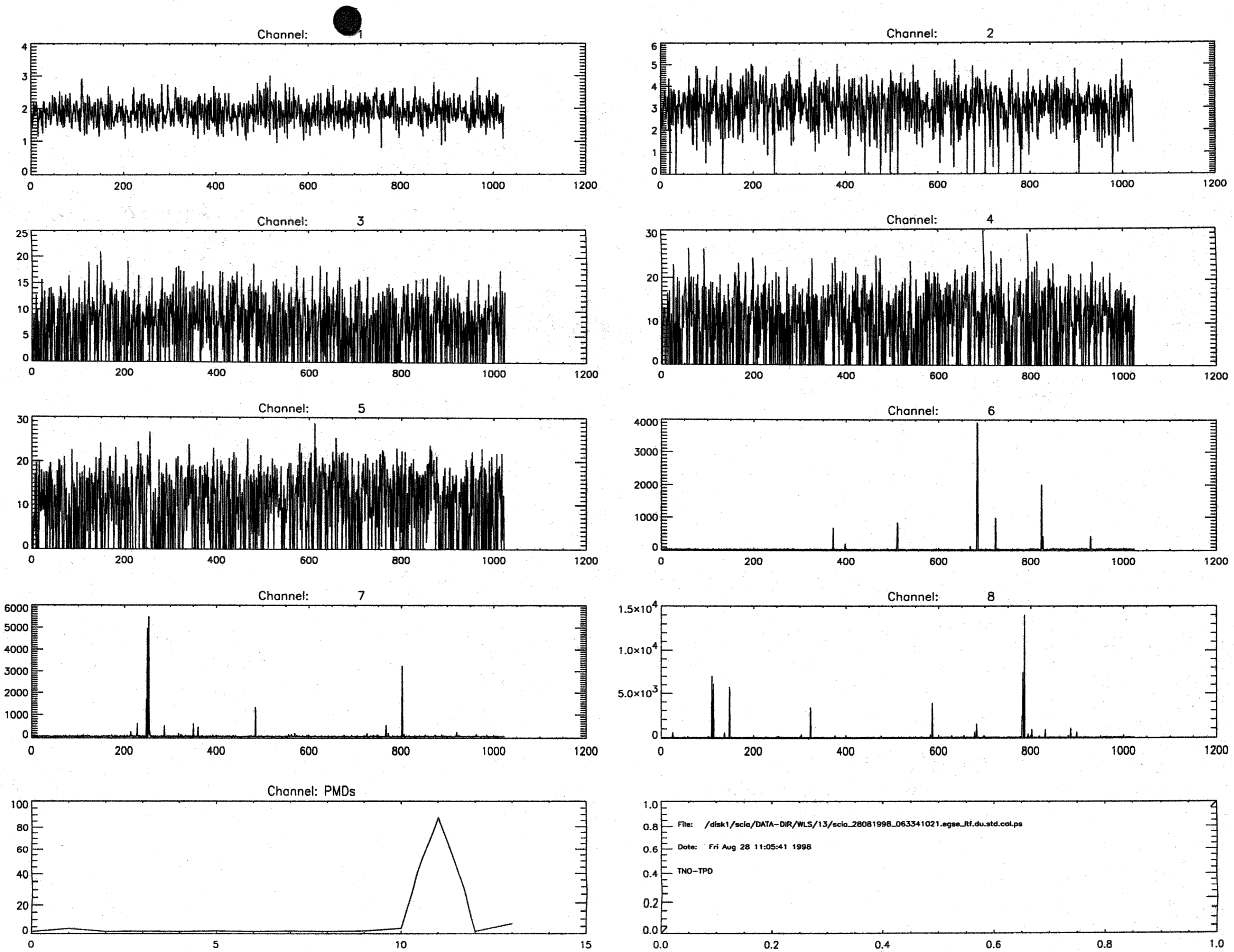

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/WLS/13/scia_28081998_063341021.egse_ltf.qu.avg.cal.ps
Date: Fri Aug 28 11:05:31 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/WLS/13/scia_28081998_063341021.egse_ltf.qu.rel_std.cal.ps
Date: Fri Aug 28 11:05:31 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/13/scia_28081998_063341021.egse_ltf.du.avg.cal.ps
Date: Fri Aug 28 11:05:40 1998
TNO-TPD

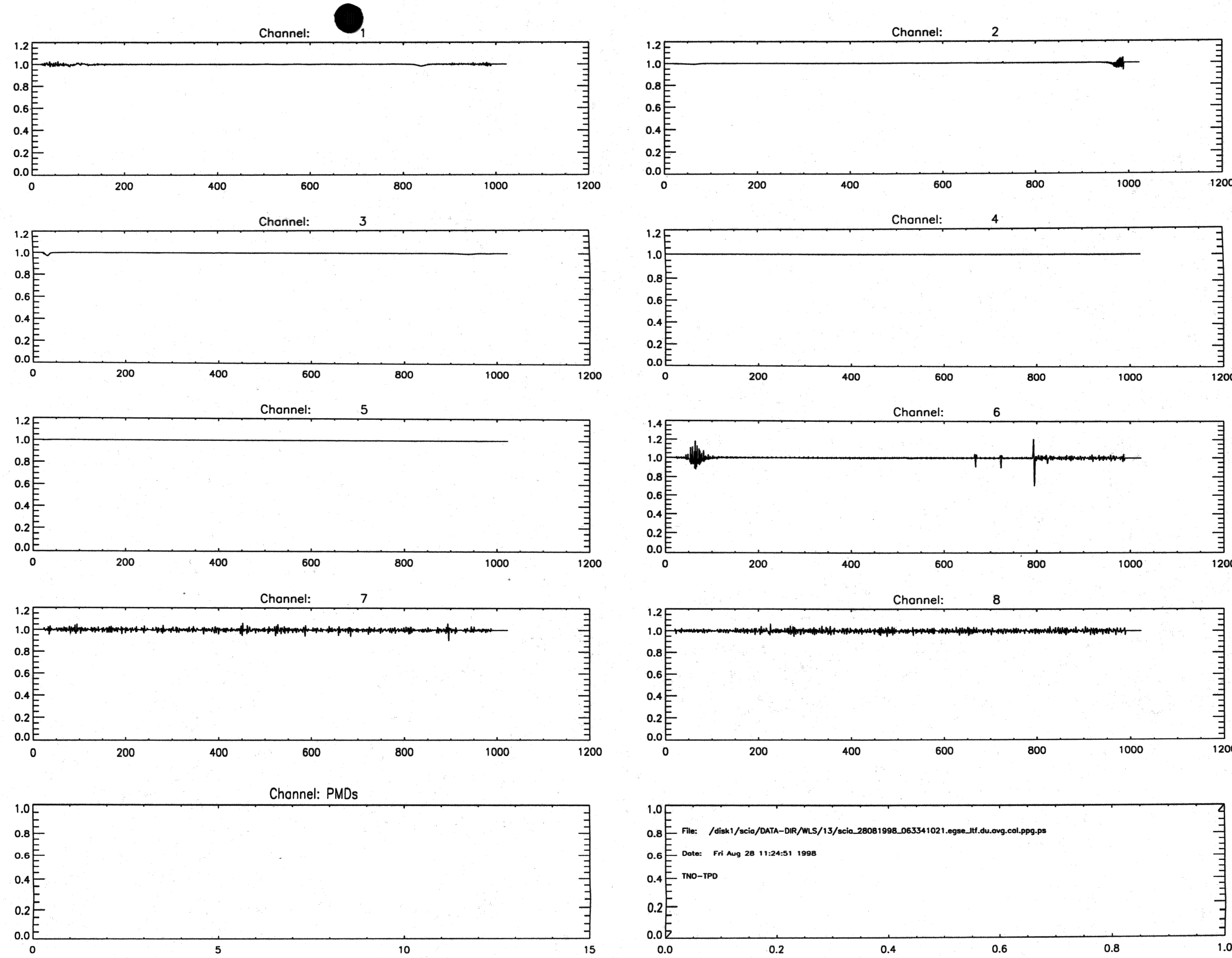


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/WLS/13/scia_28081998_063341021.egse_ltf.du.rel_std.col.ps
Date: Fri Aug 28 11:05:41 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/WLS/13/scia_28081998_063341021.egse_ltf.du.std.col.ps
Date: Fri Aug 28 11:05:41 1998
TNO-TPD

```
time        = Fri Aug 28 11:05:41 1998
batch       = du
Start TOD = Fri 28-Aug-98 06:34:06
End   TOD = Fri 28-Aug-98 06:35:06
Processing= computation of average, standard dev. and rel.standard dev.
```

```
time        = Fri Aug  28 11:05:31 1998
batch       = qu
Start TOD = Fri 28-Aug-98 06:33:41
End   TOD = Fri 28-Aug-98 06:34:06
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/13/scia_28081998_063341021.egse_ltf.du.avg.cal.ppg.ps
Date: Fri Aug 28 11:24:51 1998
TNO-TPD

```
Version:  0.1
Input files:

/disk1/scia/DATA-DIR/WLS/13/scia_28081998_063341021.egse_ltf.du.avg.cal and

/disk1/scia/DATA-DIR/WLS/13/scia_28081998_063341021.egse_ltf.qu.avg.cal
Action: Computation of Pixel to pixel gain
Processing time: Fri Aug 28 11:24:51 1998
Output file name:
/disk1/scia/DATA-DIR/WLS/13/scia_28081998_063341021.egse_ltf.du.avg.cal.ppg.ca
```

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	Dion Oude Lansink 28-8-'98	
	What's the name of the (main) data input files generated by the EGSE? `(*.dat)`	SciA_28081998_063341021	(A)
	Setup a three-window configuration on your SUN.		See course descr.
Cnstr directory	`cd ~/DATA-DIR/WLS ; ls -l` highest number in directory?	12	Note: In window DATA-DIR (B)
			(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?	13	(C)
	<C> should be <B> + 1	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.	280898	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 <A>.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

In DATA-DIR window

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

size: 146 kB

should be approx 150Kb

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

size: 156 kB

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 (*)

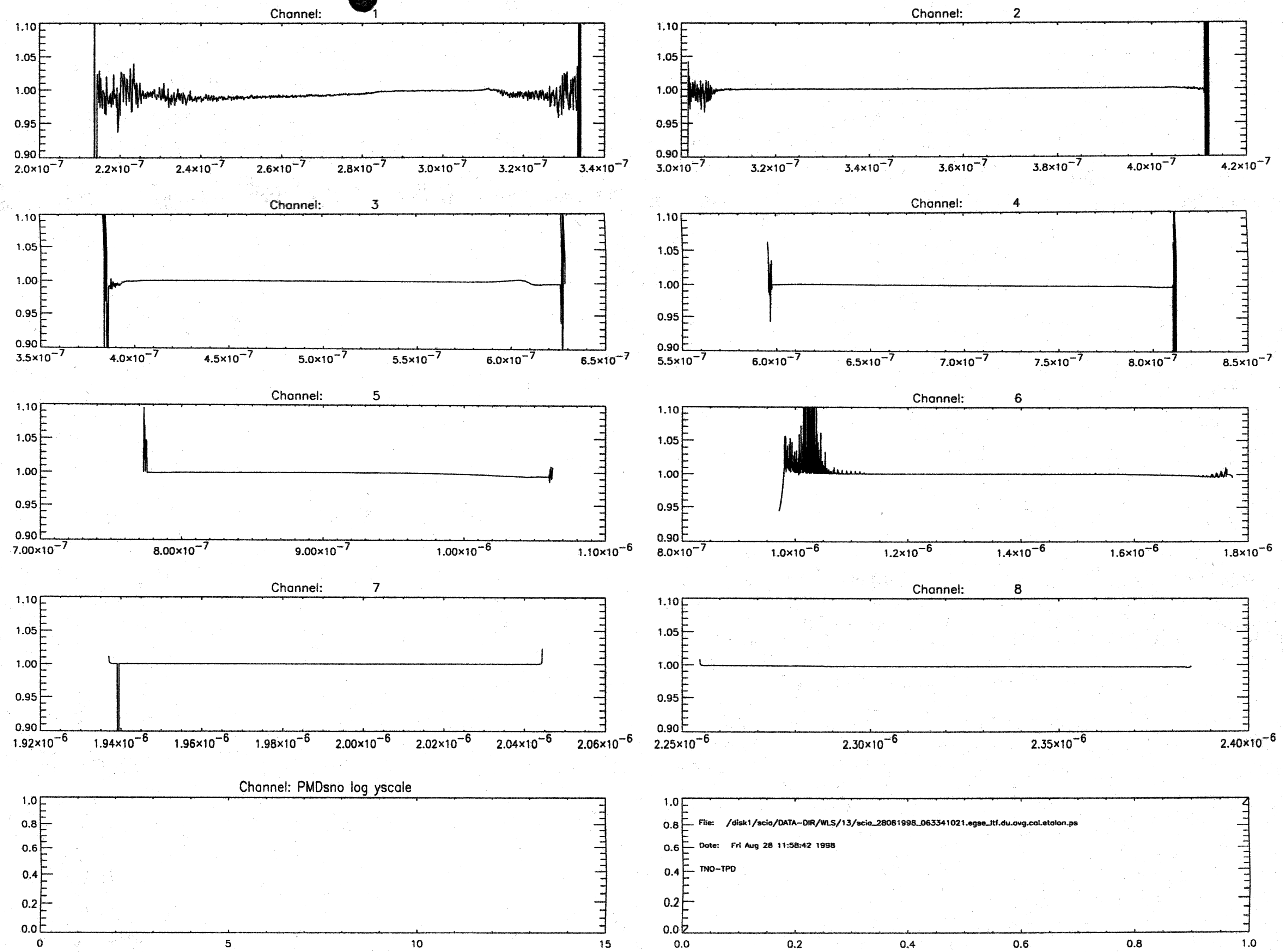
Run ETALON	`idl do_etalon`		In IDL window
Check ETALON	`ls -l <DIR-NAME>/*` Size of file `*.du*.avg.cal.etalon.cal`	146 kB	In DATA-DIR window should be approx 150Kb
Check ETALON visually	`lpr -P<printer> *.du*.avg.cal.etalon.~~cal~~.ps` Value of ETALON should show only a small variation around 1.0 (like 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	

(*) When asked a file containing reference WLS spectrum (START-OF-CAL) select the right subdirect START-OF-CAL-WARM or START-OF-CAL-COLD. (depending on detector temps.

if using an external lamp use: EXTERN-STARTOF-CAL-COLD OR EXTERN-START-OF-CAL-WARM

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	DION OUDE LANSINK


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/WLS/13/scia_28081998_063341021.egse_ltf.du.avg.cal.etalon.ps
Date: Fri Aug 28 11:58:42 1998
TNO-TPD

Version: 0.1
Input files:

/disk1/scia/DATA-DIR/WLS/13/scia_28081998_063341021.egse_ltf.du.avg.cal and

/disk1/scia/DATA-DIR/WLS/13/scia_28081998_063341021.egse_ltf.qu.avg.cal
Action: Extraction of etalon structure
Processing time: Fri Aug 28 11:58:21 1998
Output file name:
/disk1/scia/DATA-DIR/WLS/13/scia_28081998_063341021.egse_ltf.du.avg.cal.etalon

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	+45,00	deg
Elevation	+9,765	deg

step 14-5a

Timeline for each Data Acquisition Period during Measurement

	1	2	3	4	5	6	7	8	9	10
State ID	41	42								
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	2	2						
2a	2	2						
3	0,125	32						
4	0,03125	64						
5	0,25	16						
6	0,25	16						
7	1	4						
8	1	4						
State ID	41, 42							

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	-1	–	–	–	–	–	–	0	1	PU	

Measurement Data Description

Test Purpose	UID 24
Remark	
Data Directory	0240_06.39.56_SLS_INT

Signatures

	Date	Signature
Issued	28-8-1998	[signature]
< Performed	28.8.98	[signature]

STEP	ACTION	RESULT	MARKER
Intro	Your name:	Gerard Otter	
	Date:	28-08-1998	
	What's the name of the (main) data input files generated by the EGSE? (*.dat)	scia-28081998-064248770	(A)
	Setup a three-window configuration on your SUN.		see course descr.
Cnstr directory	cd ~/DATA-DIR/SPEC-CAL/ ; ls -l		Note: In window DATA-DIR
	highest number in directory?	15	(B)
	New directory: mkdir <B+1>		
	ls -l		
	What's now the highest number in directory?	16	(C)
	<C> should be <B> + 1	Y / N	
	directory name is:	~/DATA-DIR/SPECCAL/<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)		Note: In window DATA-DIR; ***don't forget the dot !!!;*** *May take more than 15 mins.*
	ls -l *.egse_ltf		
	What's the name of the egse_ltf file	(A)	(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:		In DATA-DIR window
	ls -l *du*.avg.cal		
	size:	146 k	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
```

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 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

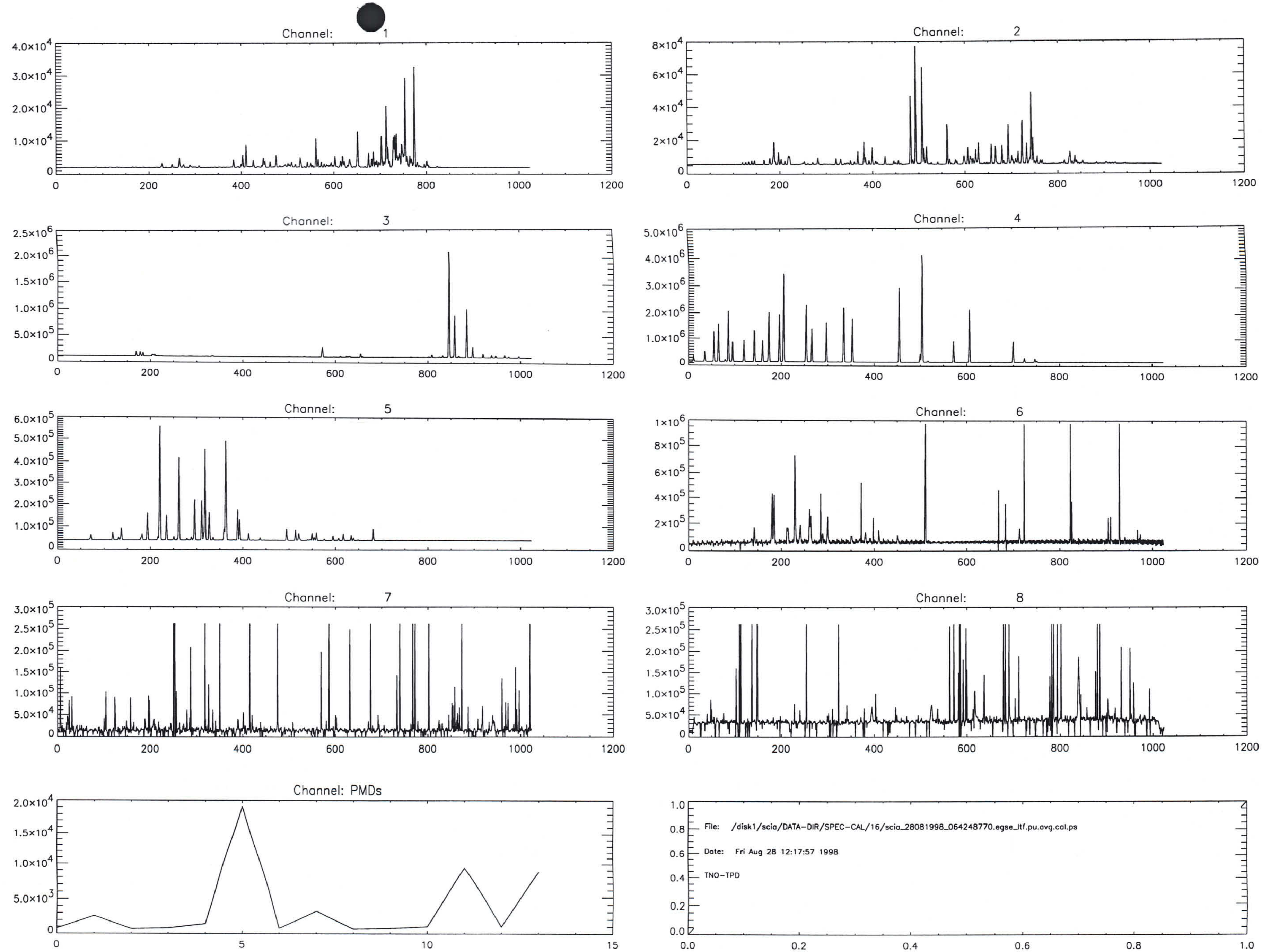
Print logfiles `lpr -P<printer> *.log`

Add logfiles to logbook, done Y / N

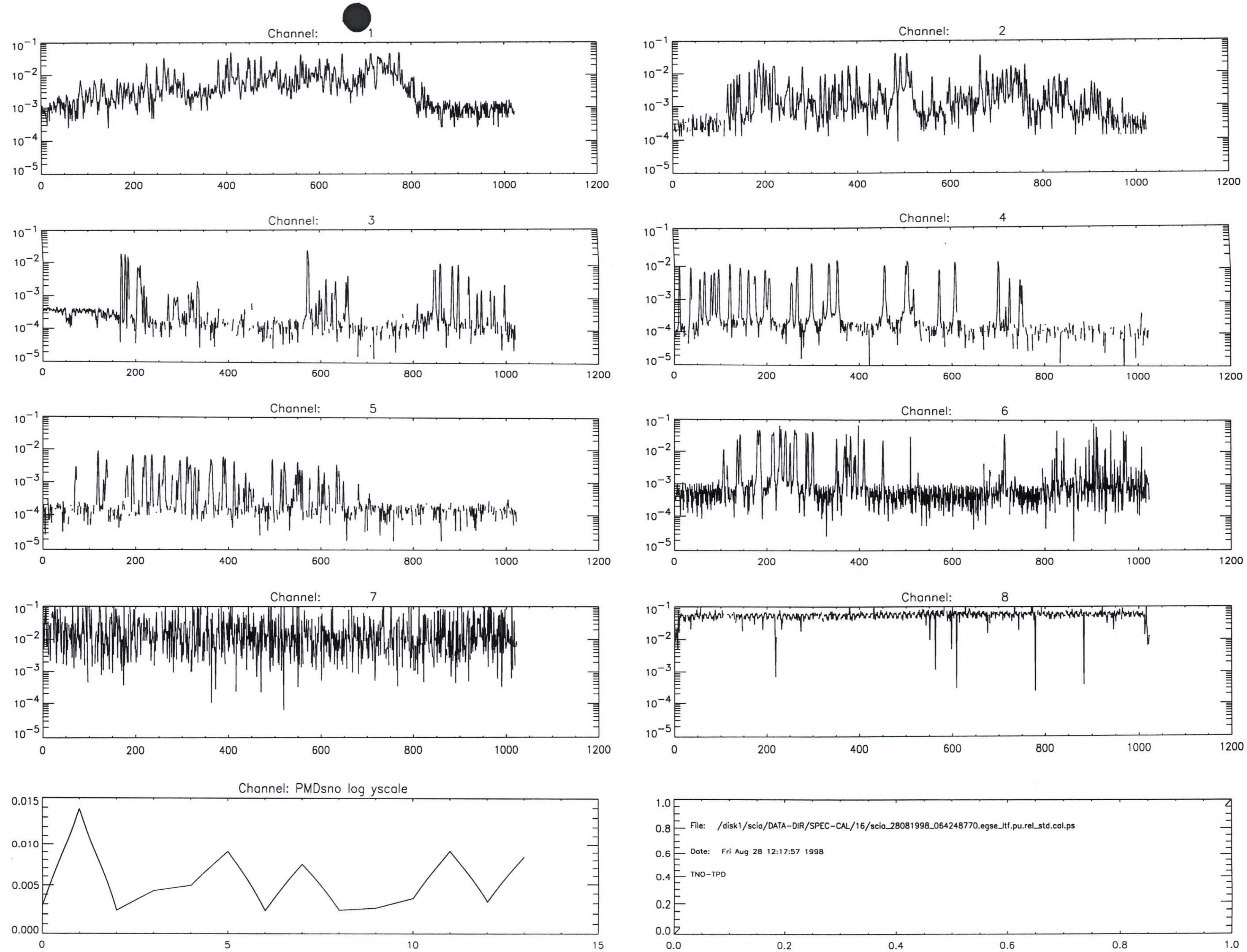
Spec line processing

Run Spec `idl do_spec_cal` — In IDL window

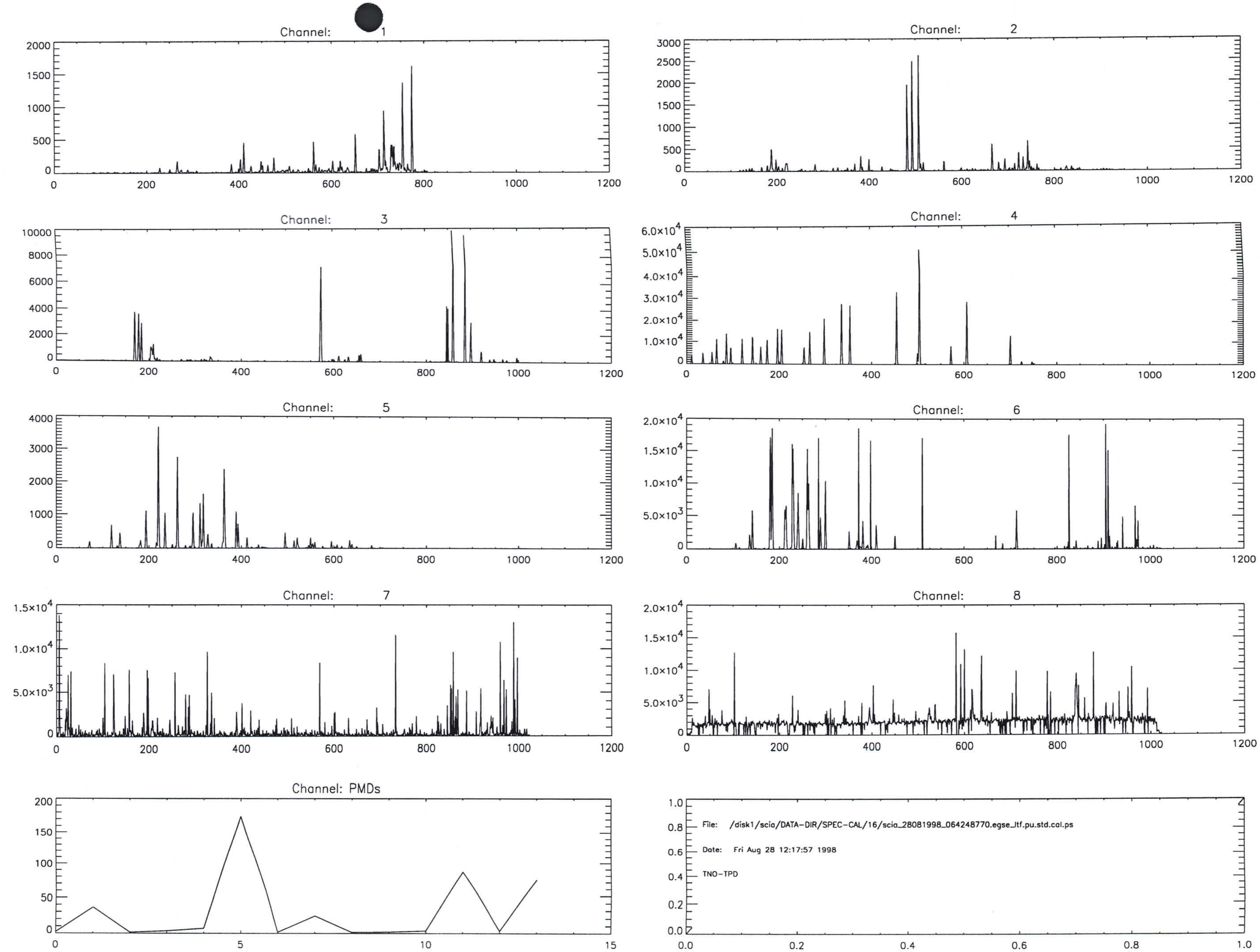
Check spec	ls -l wl.data		In DATA DIR window should be approx a few kilobytes
	Size of file wl.data	9,9 kb	
Check XSI visually	lpr -P<printer> *.data.ps		
	Is the value of the spectral calibration approx. a straight line in all channels? (Note: in channel 2: negative slope)	Y / N	
	Add postscript images 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).		See analysis sheet BackUp
	Name of backup CDs		
Sign:	Name		
	Date and time		
	Signature		



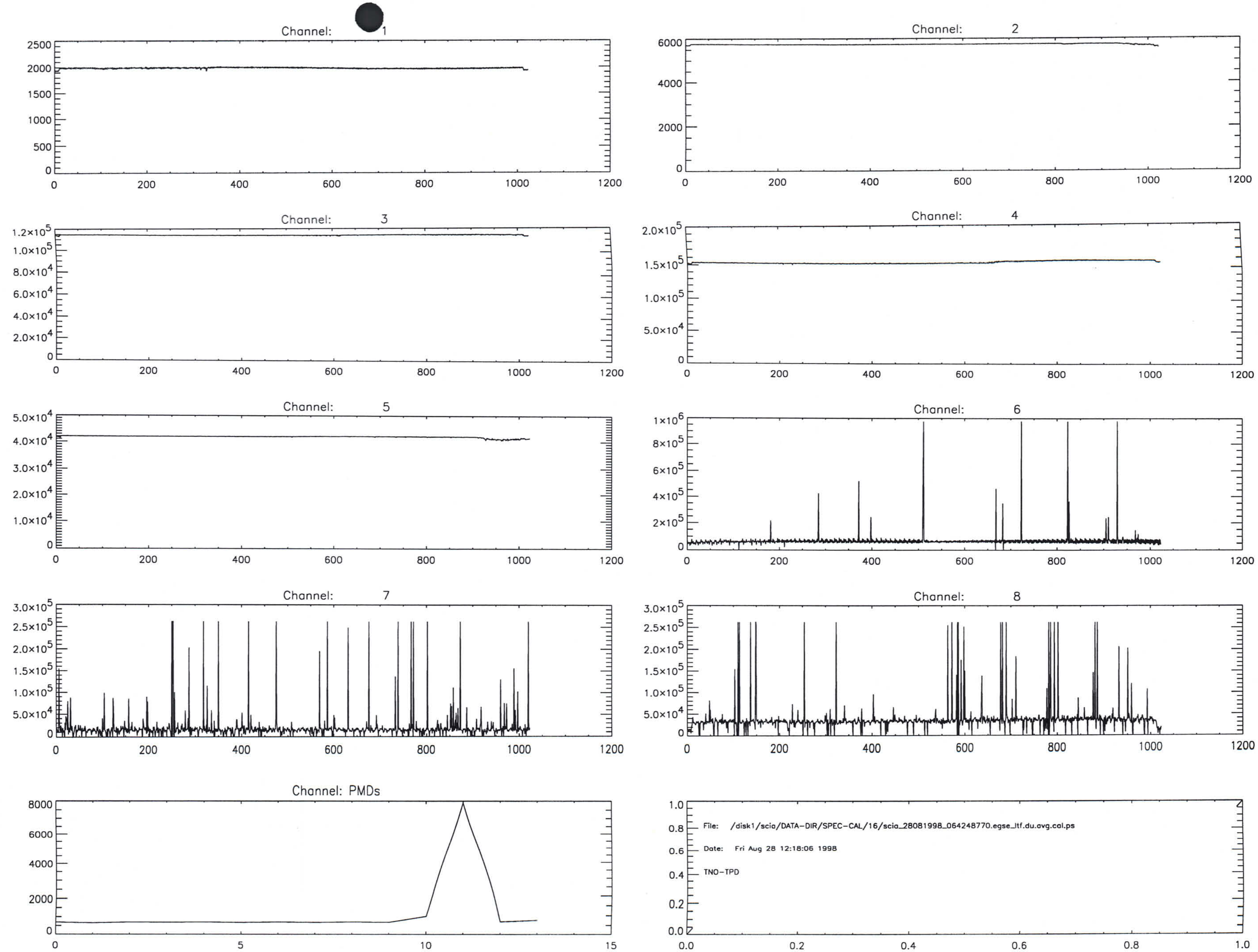
Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/SPEC-CAL/16/scia_28081998_064248770.egse_ltf.pu.avg.cal.ps
Date: Fri Aug 28 12:17:57 1998
TNO-TPD

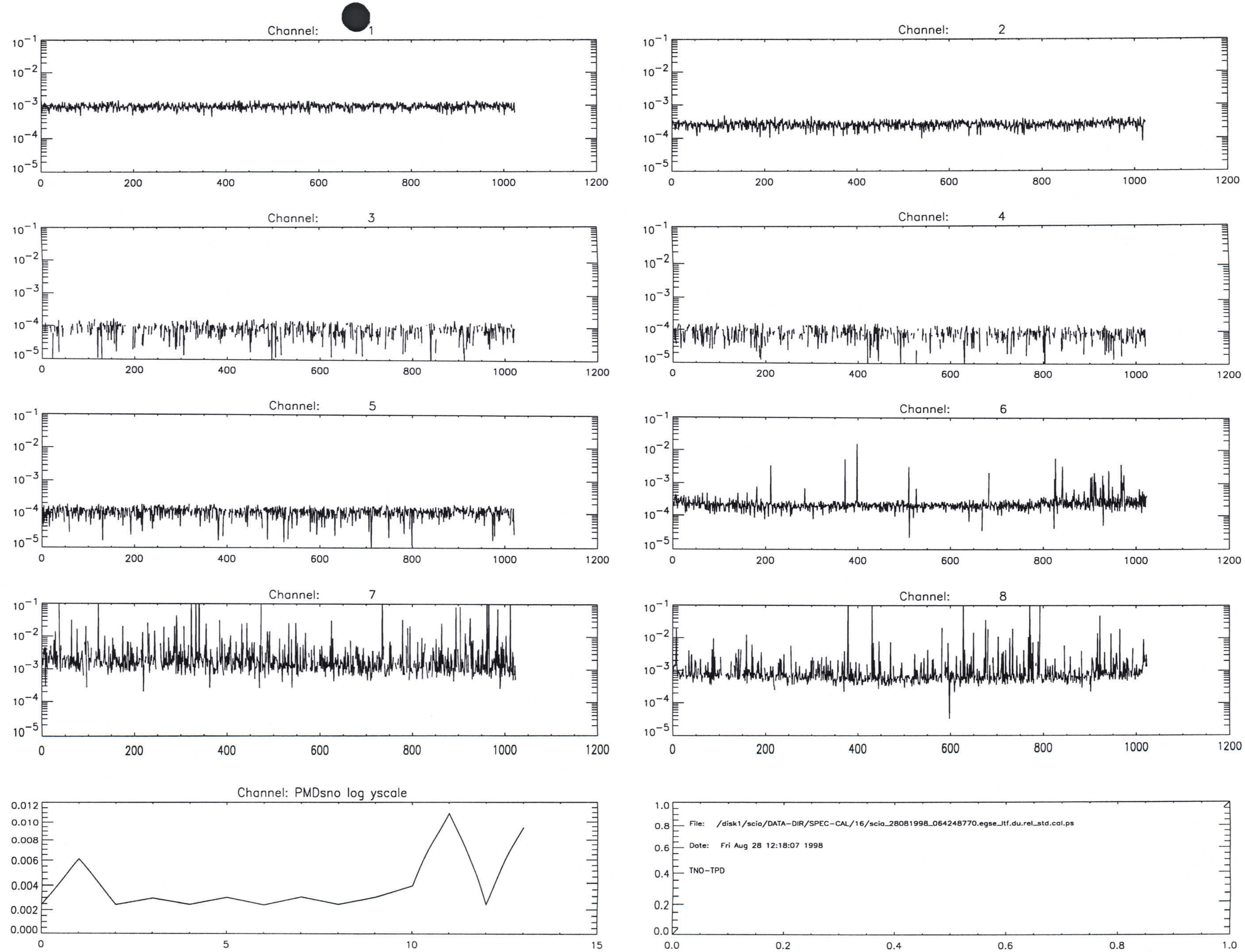


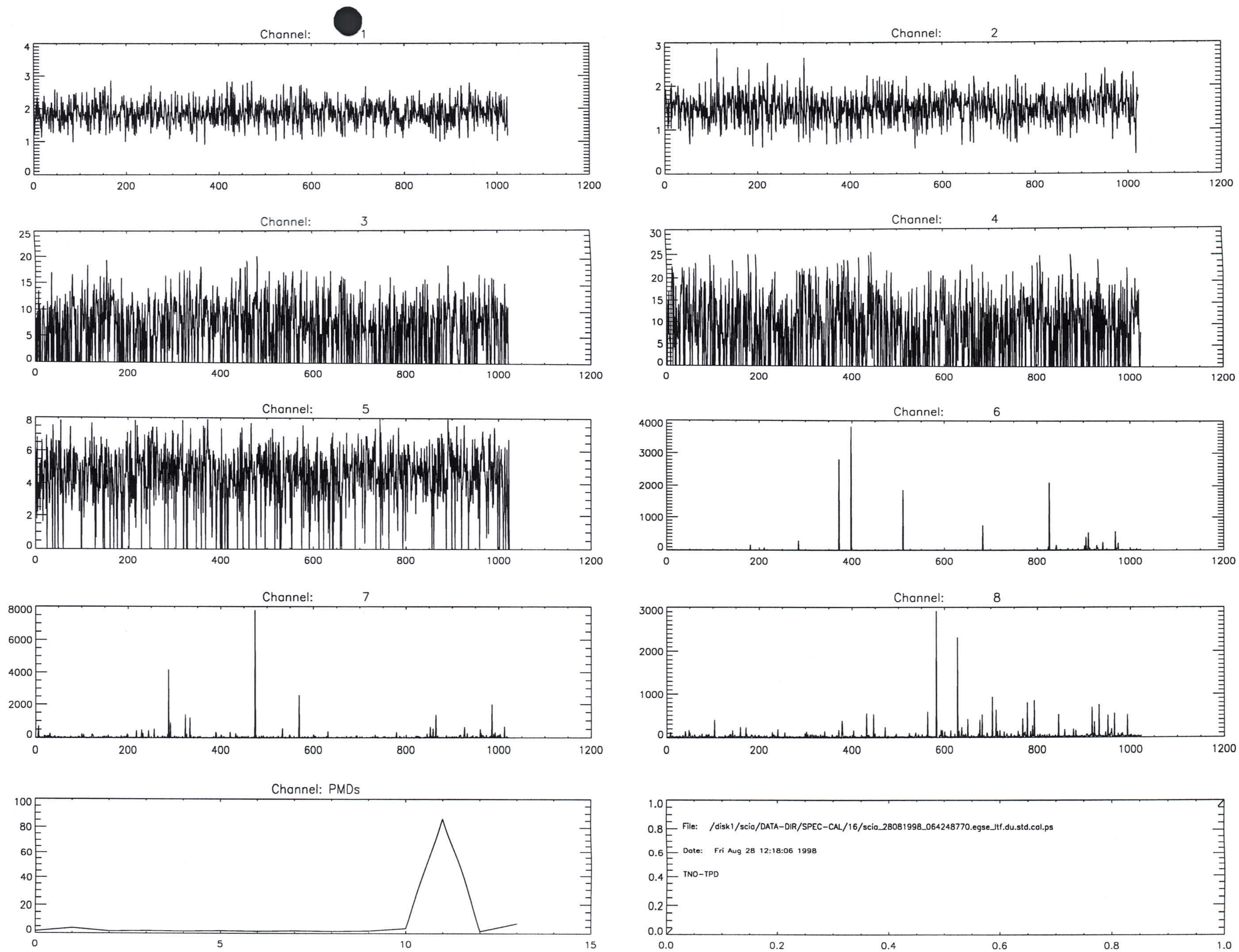
Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/SPEC-CAL/16/scia_28081998_064248770.egse_ltf.pu.rel_std.cal.ps
Date: Fri Aug 28 12:17:57 1998
TNO-TPD



Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/SPEC-CAL/16/scia_28081998_064248770.egse_ltf.pu.std.cal.ps
Date: Fri Aug 28 12:17:57 1998
TNO-TPD

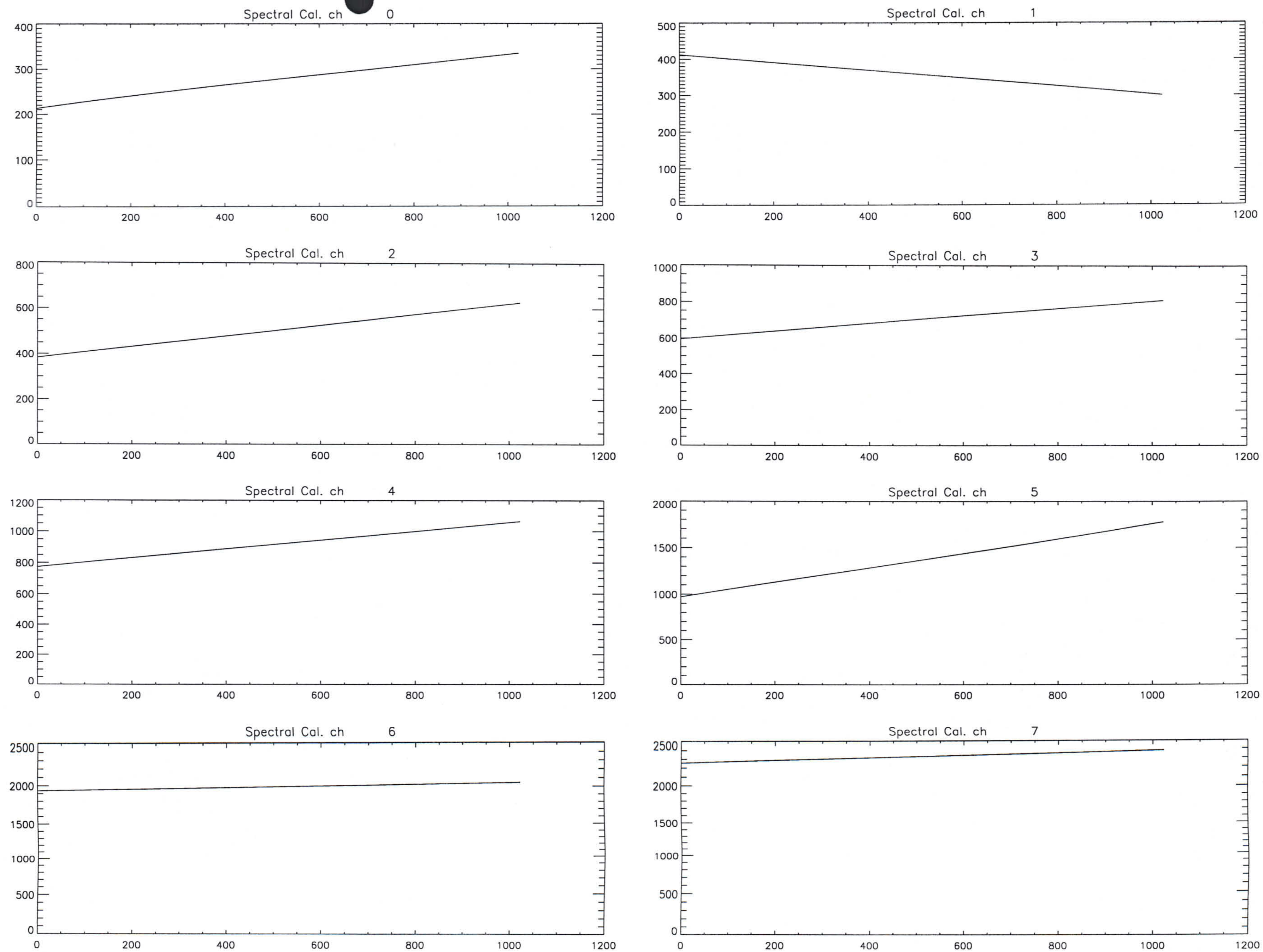

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/SPEC-CAL/16/scia_28081998_064248770.egse_ltf.du.avg.cal.ps
Date: Fri Aug 28 12:18:06 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/SPEC-CAL/16/scia_28081998_064248770.egse_ltf.du.rel_std.cal.ps
Date: Fri Aug 28 12:18:07 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/SPEC-CAL/16/scia_28081998_064248770.egse_ltf.du.std.cal.ps
Date: Fri Aug 28 12:18:06 1998
TNO-TPD

```
time       = Fri Aug 28 12:18:07 1998
batch      = du
Start TOD = Fri 28-Aug-98 06:43:14
End   TOD = Fri 28-Aug-98 06:44:14
Processing= computation of average, standard dev. and rel.standard dev.
```

```
time       = Fri Aug 28 12:17:57 1998
batch      = pu
Start TOD = Fri 28-Aug-98 06:42:48
End   TOD = Fri 28-Aug-98 06:43:14
Processing= computation of average, standard dev. and rel.standard dev.
```



Spectral Cal. ch 0
Spectral Cal. ch 1
Spectral Cal. ch 2
Spectral Cal. ch 3
Spectral Cal. ch 4
Spectral Cal. ch 5
Spectral Cal. ch 6
Spectral Cal. ch 7

```
Version:  0.1
Input files:

/disk1/scia/DATA-DIR/SPEC-CAL/16/scia_28081998_064248770.egse_ltf.du.avg.cal
 and

/disk1/scia/DATA-DIR/SPEC-CAL/16/scia_28081998_064248770.egse_ltf.pu.avg.cal
Action:
Spectral calibration
PPG correction filename used: /disk1/scia/DATA-DIR/CORR/200898/ppg.cal
ETALON correction filename used: /disk1/scia/DATA-DIR/CORR/200898/etalon.cal
PIXEL correction filename used: /disk1/scia/DATA-DIR/CORR/200898/dead_bad.pix
WL correction filename used: /disk1/scia/DATA-DIR/CORR/200898/wl.data
STRAYLIGHT correction filename used: /disk1/scia/DATA-DIR/CORR/200898/stray.da
Coefficients in file /disk1/scia/DATA-DIR/SPEC-CAL/16/scia_28081998_064248770.
Processing time: Fri Aug 28 13:50:43 1998
Output file name:
/disk1/scia/DATA-DIR/SPEC-CAL/16/scia_28081998_064248770.egse_ltf.du.avg.cal.w
```

LOG SHEET SCHIAMACHY CALIBRATION

Date/Time	Description of action	Measurement directory
28-8-1998 8:04 UTC	Measurement UID 11 started but forget to put on the light restarted at 9:10 UTC my mistake (Gerard)	
28-8-1998 11.46 UTC	Overdracht team 3 → team 4	
	Xsi-UV-II (Xsi-2) Met 1 UV diffuser loopt nu, moet geanalyseerd worden en vergeleken worden met vorige Xsi-UV-II (Xsi-2) meting met 2 UV diffusers om te kijken naar verschillen in USI (subdirectories 5 en degene voor de XSI-2 meting die nu loopt). Meting met 1 diffuser heeft een beetje lage PET voor kanaal 3 → weinig signaal maar nog wel acceptabel	
	Daarna:	
①	Xsi-UV-I (Xsi-1) slits 2 mm / 2 mm / 4 mm 1 UV diffuser	eerst testrun om PET's te bepalen
②	Xsi-UV-I (Xsi-1) slits 2 mm / 2 mm / 4 mm 2 UV diffusers	eerst testrun
	De interne WLS en SLS metingen van 28-8 zijn geanalyseerd en kunnen worden gebruikt voor correcties op de Xsi metingen bij lage DM temperaturen	

Formal Run of Measurement

(Measurement ID) XI_2

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

step 14-8
1 311UV-Diffu.

Timeline for each Data Acquisition Period during Measurement

	1	2	3	4	5	6	7	8	9	10
State ID	18									
Repetitions	5									

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	64	1						
2a	64	1						
3	2 ~~64~~	32 ~~64~~						
4	64	1						
5	64	1						
6	16	4						
7	2	32						
8	2	32						
State ID								

changed PET

1 UV diffuser

stopped because lamp wasn't on !!

Stimuli Settings for Existing Blocks in Measurement

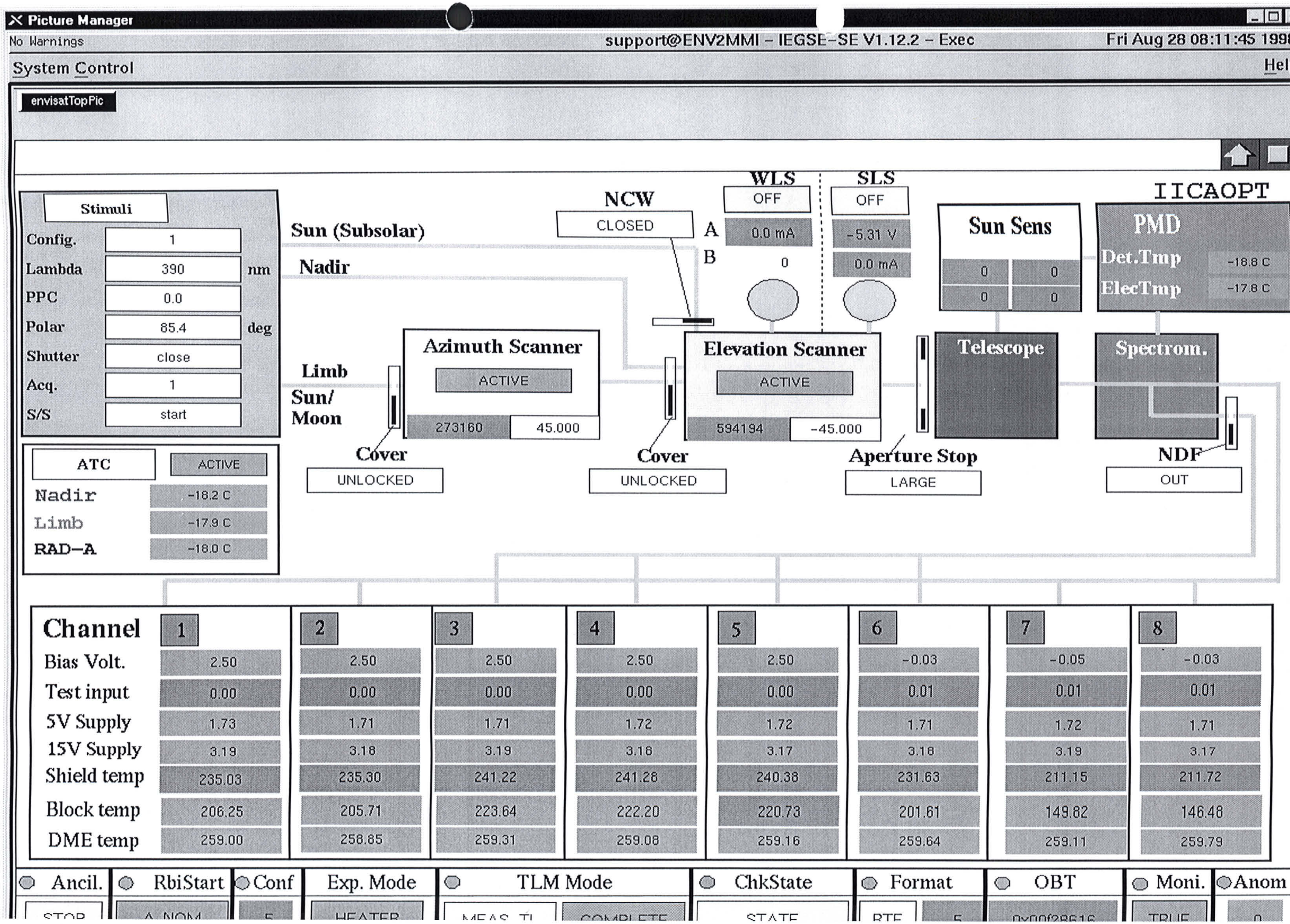
Block No	Stimuli Setup ID	PPC [deg]	Polarizer [deg]	Shutter open/close	Acquisition Time [s]	Lambda [nm] Start	Stop	Step	Repetition Factor	Message	OS Setup Time [s]
1	1	0	85,4	close	1	390	390	0	1	DU1	50
2	1	0	85,4	open	1	390	390	0	1	MP~	8
3	1	0	85,4	open	1	392	460	2	1	ПР~	3
4	1	0	85,4	close	1	460	460	0	1	DU2	8

Measurement Data Description

Test Purpose	UID 11
Remark	
Data Directory	0240_08.04.35_XI_2

Signatures

	Date	Signature
Issued	28-8-1998	[signature]
Performed	28.8.98	[signature]


Picture Manager
No Warnings
support@ENV2MMI – IEGSE–SE V1.12.2 – Exec
Fri Aug 28 08:11:45 1998
System Control
Help
envisatTopPic
Stimuli
Config. 1
Lambda 390 nm
PPC 0.0
Polar 85.4 deg
Shutter close
Acq. 1
S/S start
ATC ACTIVE
Nadir -18.2 C
Limb -17.9 C
RAD-A -18.0 C
Sun (Subsolar)
Nadir
Limb
Sun/ Moon
Cover UNLOCKED
Azimuth Scanner ACTIVE
273160 45.000
NCW CLOSED
Cover UNLOCKED
WLS OFF
A 0.0 mA
B 0
SLS OFF
-5.31 V
0.0 mA
Elevation Scanner ACTIVE
594194 -45.000
Aperture Stop LARGE
Sun Sens
0 0
0 0
Telescope
IICAOPT
PMD
Det.Tmp -18.8 C
ElecTmp -17.8 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 235.03 235.30 241.22 241.28 240.38 231.63 211.15 211.72
Block temp 206.25 205.71 223.64 222.20 220.73 201.61 149.82 146.48
DME temp 259.00 258.85 259.31 259.08 259.16 259.64 259.11 259.79
Ancil.
RbiStart
Conf
Exp. Mode
TLM Mode
ChkState
Format
OBT
Moni.
Anom

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	PO Nyssen 28-08-98	
	What's the name of the (main) data input files generated by the EGSE? `(*.dat)`	scia-28081998-091632340.dat	(A)
	Setup a three-window configuration on your SUN.		see course descr.

Cnstr directory	`cd ~/DATA-DIR/XSI-UV-II/ ; 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
		5
		
		6
		Y / N
			Note: In window DATA-DIR
			(B)
			
			(C)

	directory name is:	~/DATA-DIR/XSI-UV-II/<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-28081998-091632340.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_fastaverscia` (and select file <D> when asked)		Note: In window IDL
Check CAL files	Dark files: `ls -l *du*.cal` size:	146 kb.	In DATA-DIR Window should be approx 150Kb

Monochromator ouput:
ls -l *mp<lambda>*.avg.cal
(where lambda is a wavelength indicator)

should be approx 150Kb

size: 146 kb
lambda ranges from: 390 - 460
to:

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

Print postscript

Pick a *.mp<lambda>.avg.cal file.
lpr -P<printer> *.avg.cal.ps
Contents dark file *du.avg.cal.ps should be approx. constant within channels: Y / N
Contents of a file *mp<lambda>.avg.cal.ps should contain a peak signal in corresponding channel (cannot be seen in channels 7 and 8): Y / N
Contents of *mp<lambda>.rel_std.cal.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

Xsi processing

Control file

Construct control-file in dir. <DIR-NAME> where each line is of the form <l1> <l2> <darkname> (meaning that file <darkname> is to be used as dark measurement for monochromator outputs with wavelength M such that <l1> <= M <= <l2>).
lpr -P<printer> <DIR-NAME>/control-file
Add control-file to logbook, done Y / N

Run XSI	idl do_xsi		
Check XSI	ls -l *.data Size of file <D>.du*.cal.data	155000 kb.	In DATA-DIR window
Check XSI visually	idl do_xsi_processing		In IDL window
	lpr -P<printer> *.data.ps		In DATA-DIR window
	Value of XSI resembles expected XSI (see [Predicted PFMcalibration results])?	Y / N	
	Add postscript images to logbook, done	Y / N	
Print logfiles	lpr -P<printer> *.data.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	PJ Nyssen.	
	Date and time	20000210 15:00	
	Signature		

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	PD Nijssen 200898	
	What's the name of the (main) data input files that you want to store on the SUN named `scia6`?	scia-28081998_091632340.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	PD Nijssen.
	Date and time	200898 13:37
	Signature	

Formal Run of Measurement (Measurement ID) XI_2

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

Scanner Positions

Azimuth	+45.00	deg
Elevation	-45.00	deg

step 14-8
1 311UV-Diffu

Timeline for each Data Acquisition Period during Measurement

	1	2	3	4	5	6	7	8	9	10
State ID	18									
Repetitions	5									

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	64	1						
2a	64	1						
3	2 ~~64~~	32 ~~64~~						
4	64	1						
5	64	1						
6	16	4						
7	2	32						
8	2	32						
State ID								

changed PET

1 UV diffuser

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	1	0	85,4	close	1	390	390	0	1	DU1	50
2	1	0	85,4	Open	1	390	390	0	1	MP~	8
3	1	0	85,4	open	1	392	460	2	1	MP~	3
4	1	0	85,4	close	1	460	460	0	1	DU2	8

Measurement Data Description

Test Purpose	UID 11
Remark	
Data Directory	0240_09.11.55_XI_2

Signatures

	Date	Signature
Issued	28-8-1998	[signature]
Performed	28.8.98	[signature]

Formal Run of Measurement (Measurement ID) XI_2

Request for Actual Status
Request for Modification
Request for Run ☒

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

Scanner Positions

Azimuth +45.00 deg
Elevation -45.00 deg

step 14-8
1 311UV-Diffu

Timeline for each Data Acquisition Period during Measurement

	1	2	3	4	5	6	7	8	9	10
State ID	18									
Repetitions	5									

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	64	1						
2a	64	1						
3	2 ~~64~~	32 ~~64~~						
4	64	1						
5	64	1						
6	16	4						
7	2	32						
8	2	32						
State ID								

changed PET

1 UV diffuser

Stimuli Settings for Existing Blocks in Measurement

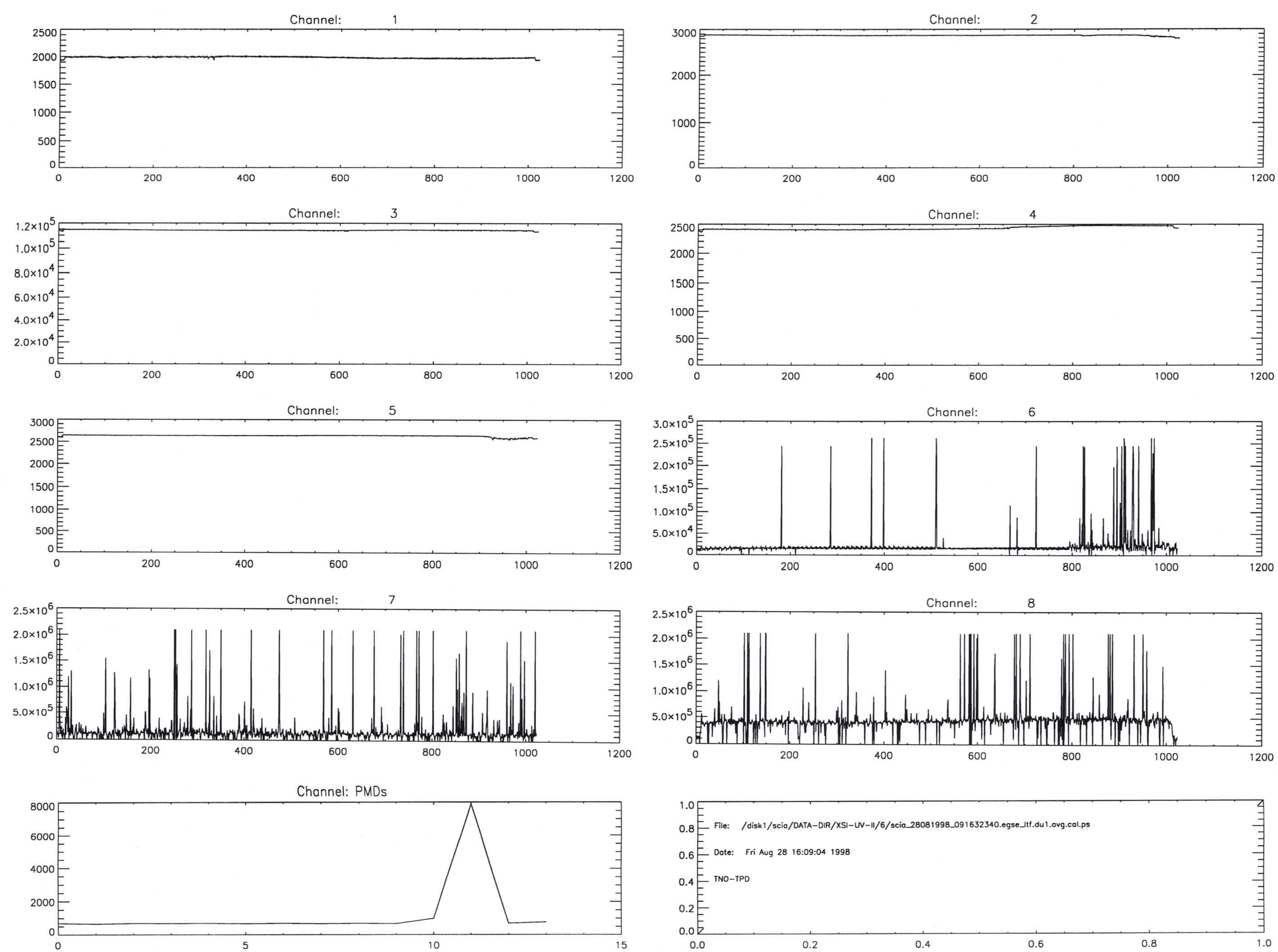
Block No	Stimuli Setup ID	PPC [deg]	Polarizer [deg]	Shutter open/close	Acquisition time [s]	Lambda [nm] Start	Stop	Step	Repetition Factor	Message	OS Setup Time [s]
1	1	0	85,4	Close	1	390	390	0	1	DU1	50
2	1	0	85,4	Open	1	390	390	0	1	MP~	8
3	1	0	85,4	Open	1	392	460	2	1	MP~	3
4	1	0	85,4	Close	1	460	460	0	1	DU2	8

Measurement Data Description

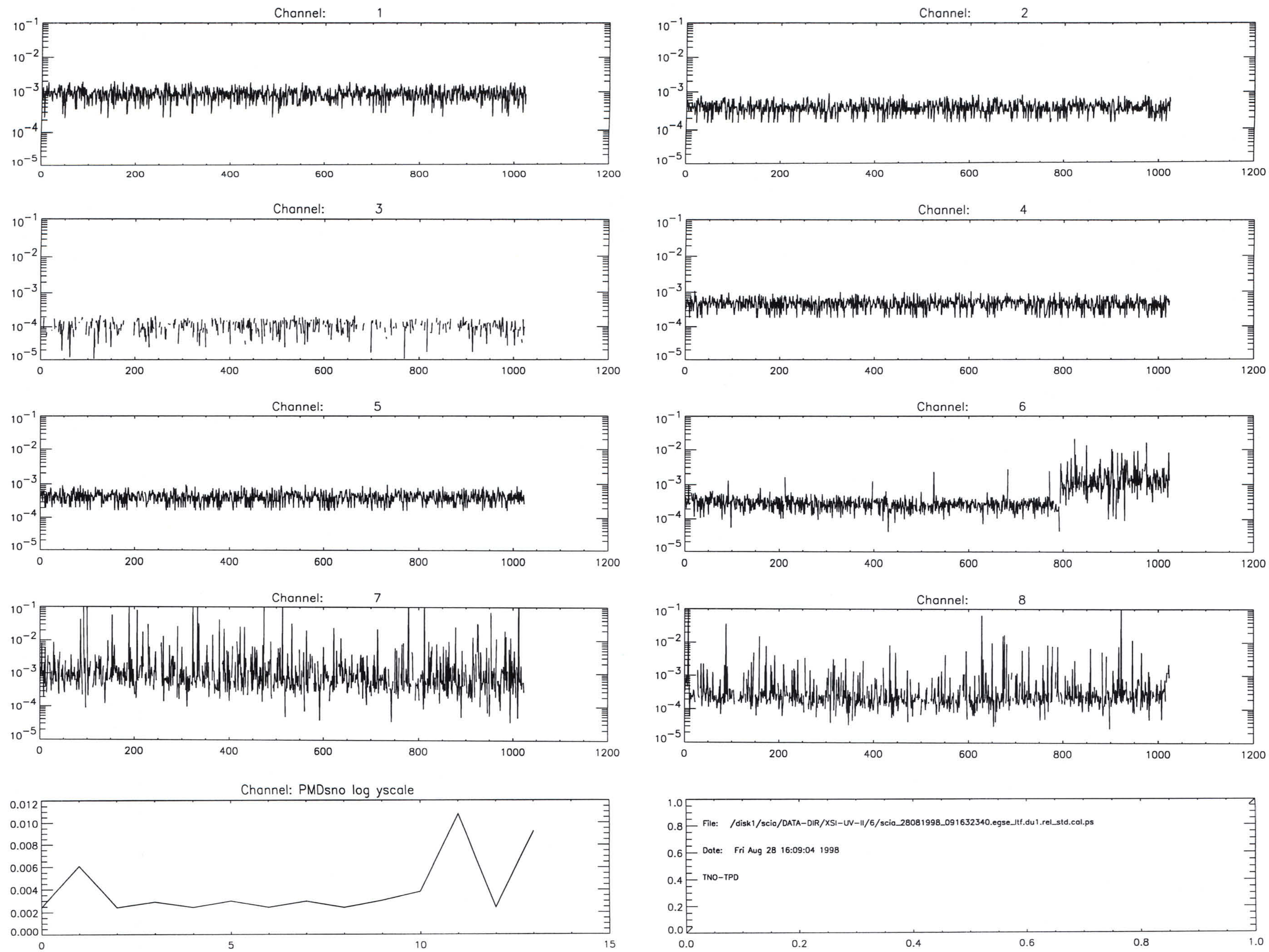
Test Purpose	UID 11
Remark	
Data Directory	0240_09.11.55_XI_2

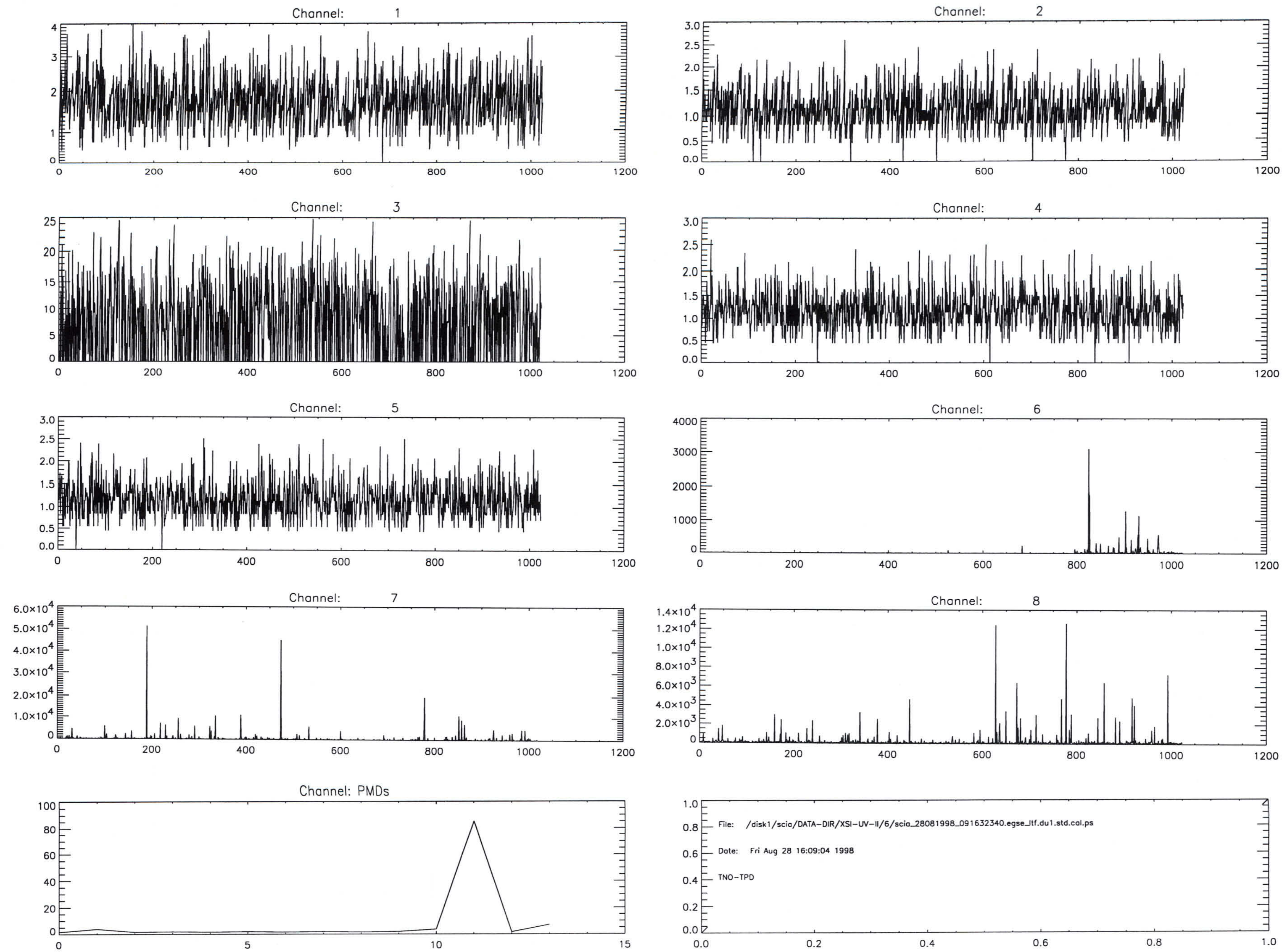
Signatures

	Date	Signature
Issued	28-8-1998	[signature]
Performed	28.8.98	[signature]

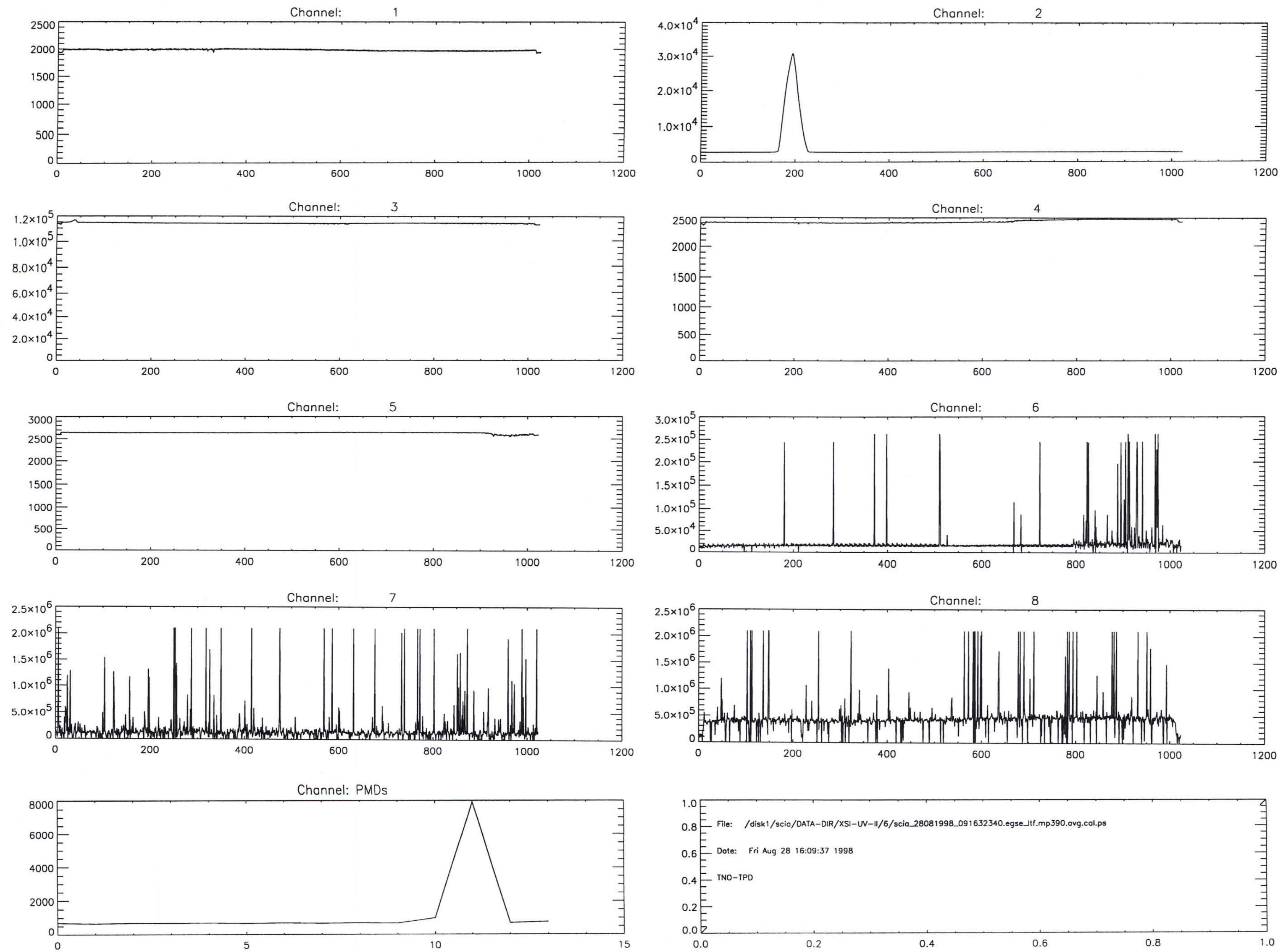


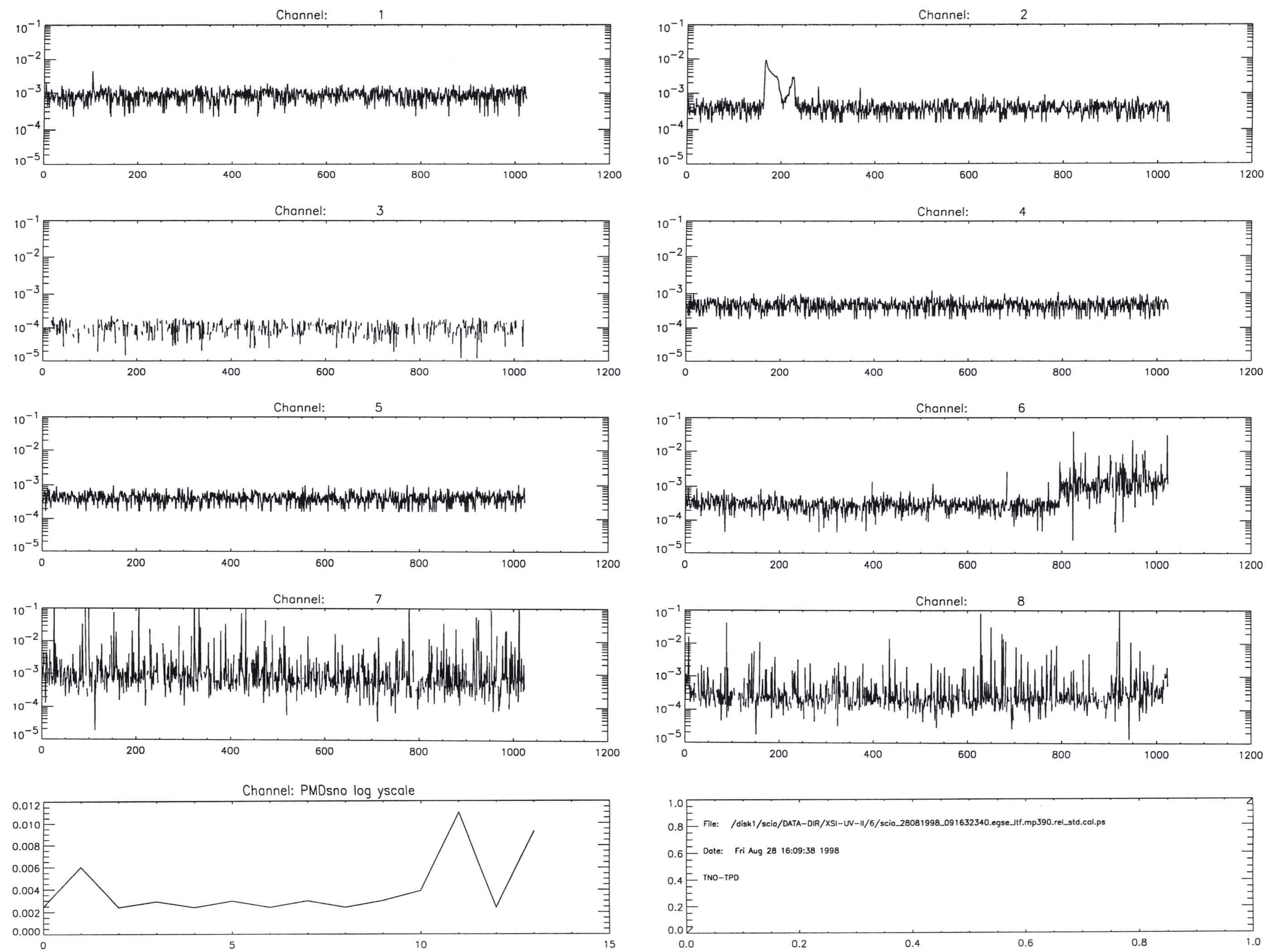
Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.du1.avg.cal.ps
Date: Fri Aug 28 16:09:04 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.du1.rel_std.cal.ps
Date: Fri Aug 28 16:09:04 1998
TNO-TPD

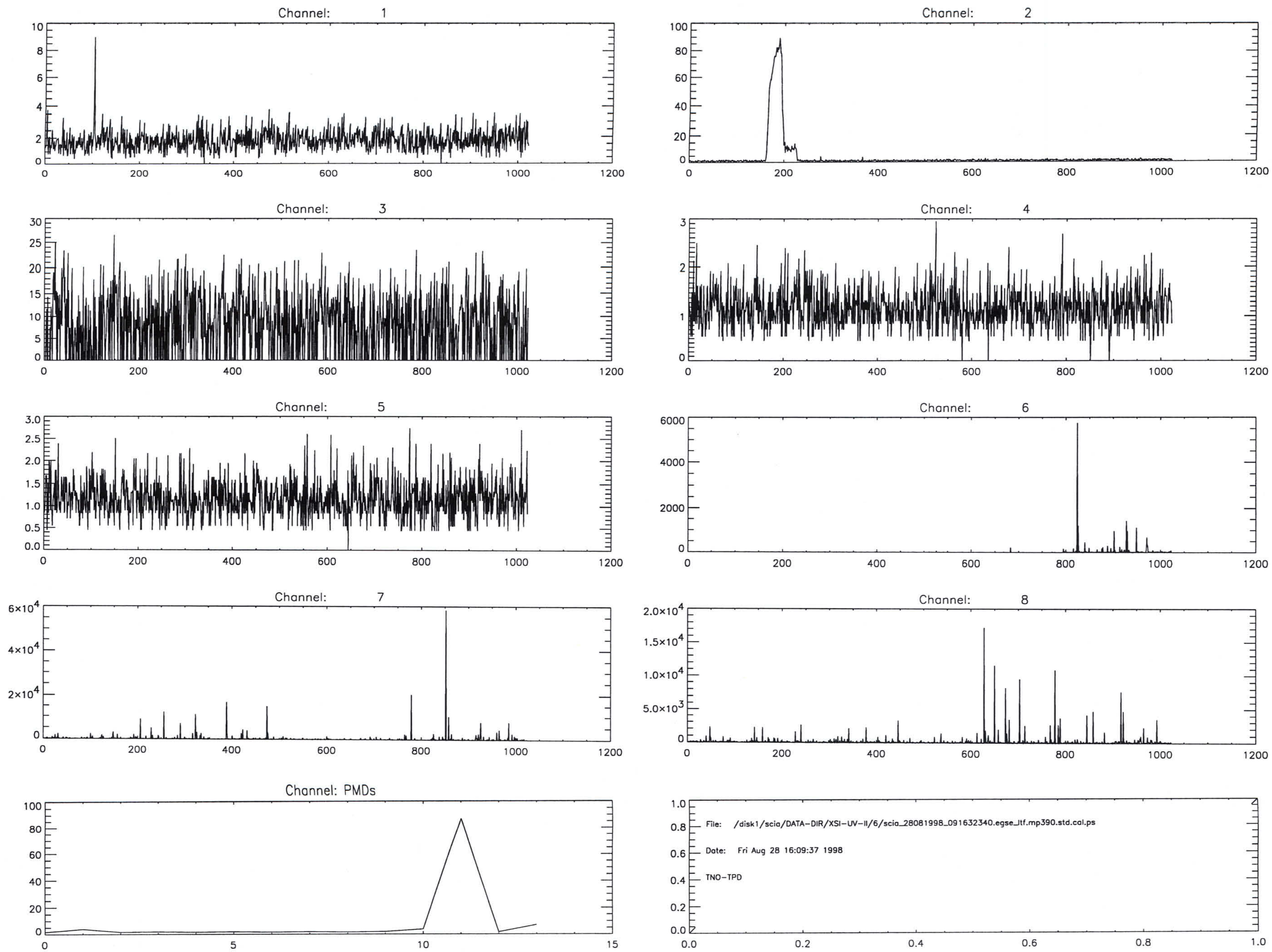


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.du1.std.col.ps
Date: Fri Aug 28 16:09:04 1998
TNO-TPD

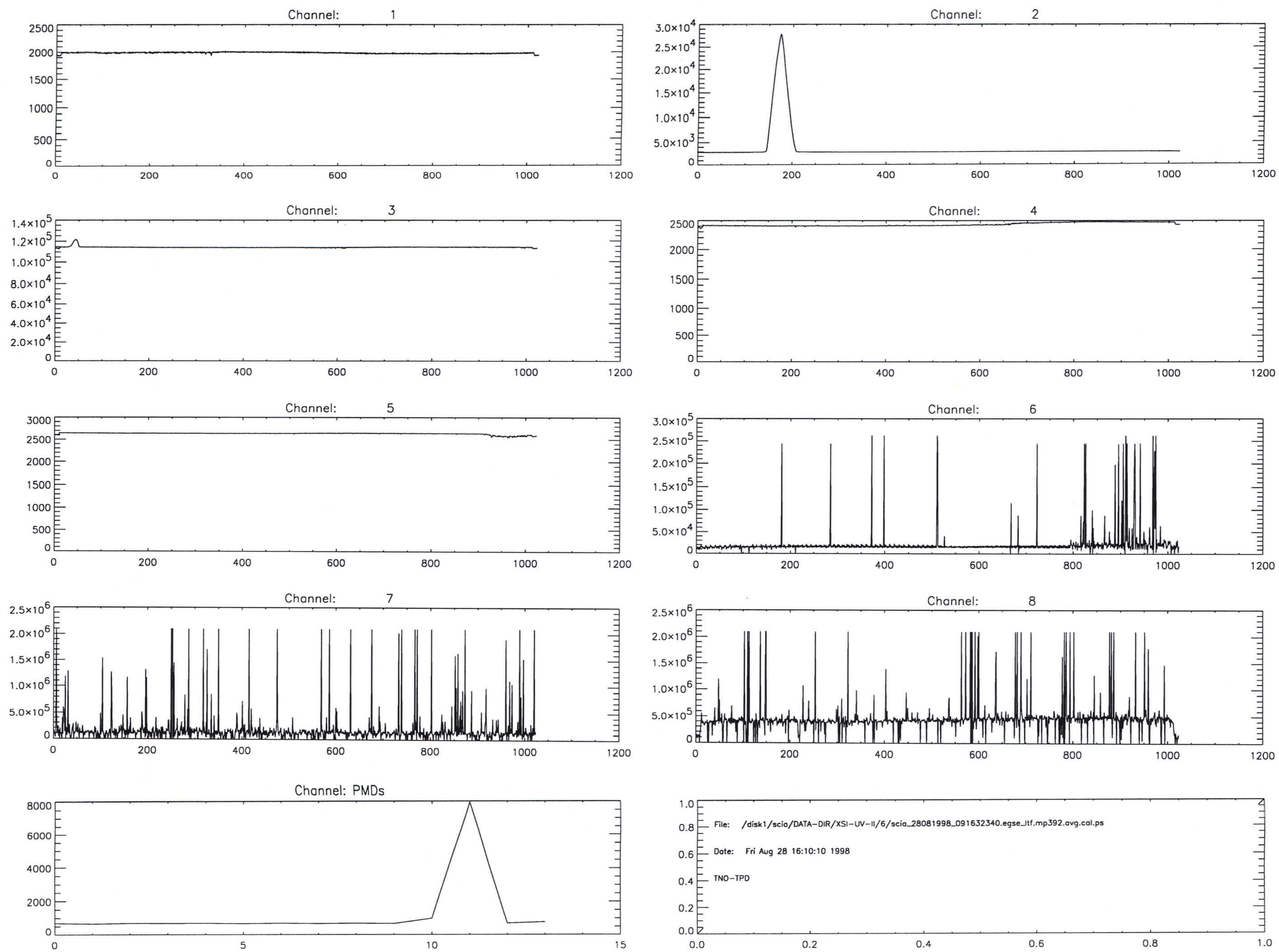

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp390.avg.cal.ps
Date: Fri Aug 28 16:09:37 1998
TNO-TPD



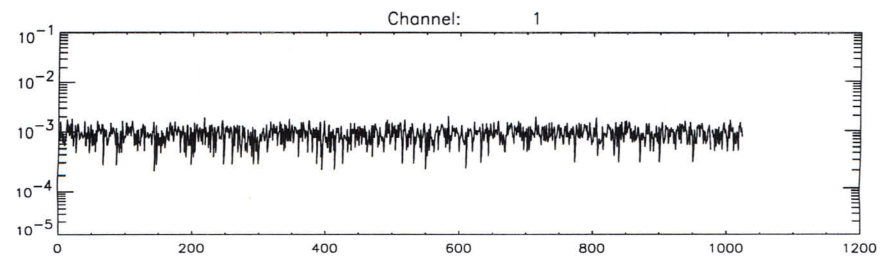
Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp390.rel_std.cal.ps
Date: Fri Aug 28 16:09:38 1998
TNO-TPD

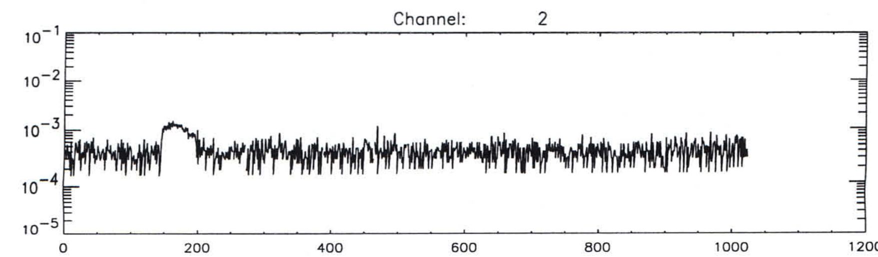


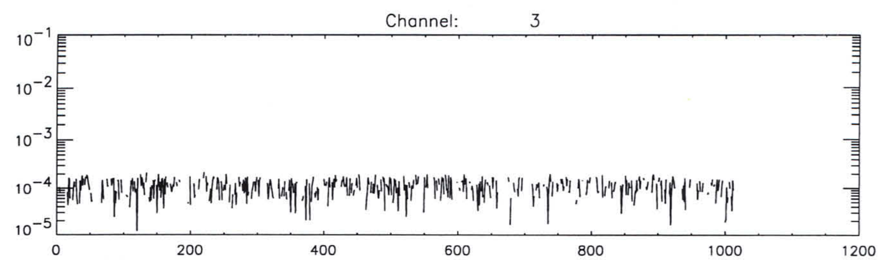
Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp390.std.cal.ps
Date: Fri Aug 28 16:09:37 1998
TNO-TPD

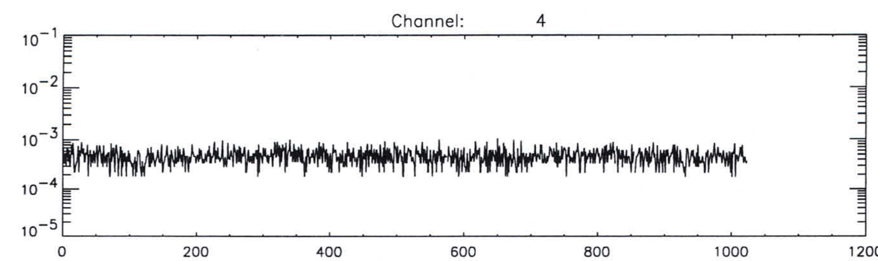


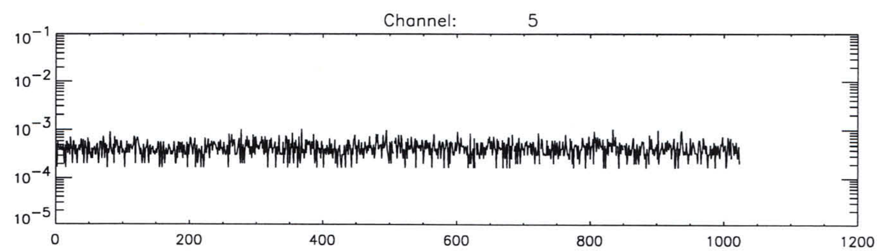
Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp392.avg.cal.ps
Date: Fri Aug 28 16:10:10 1998
TNO-TPD

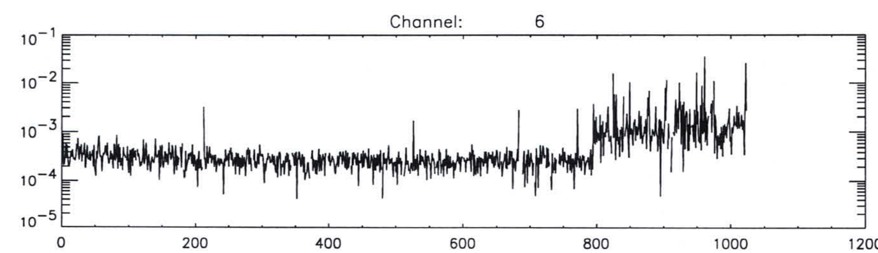


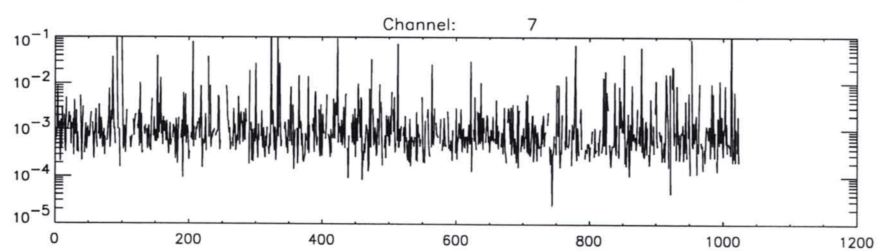


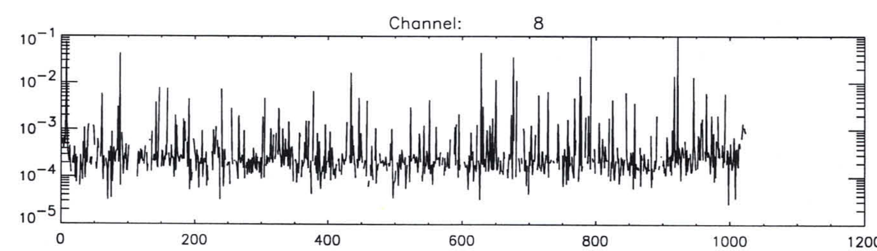


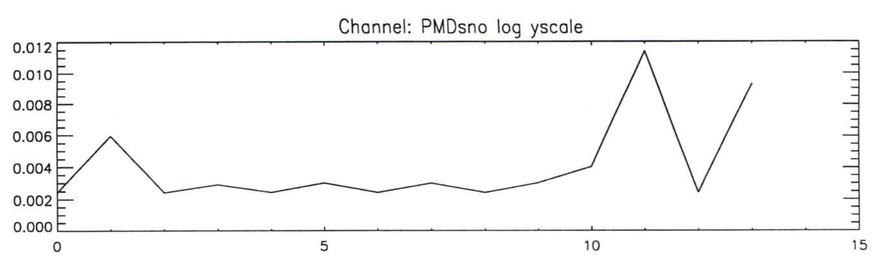








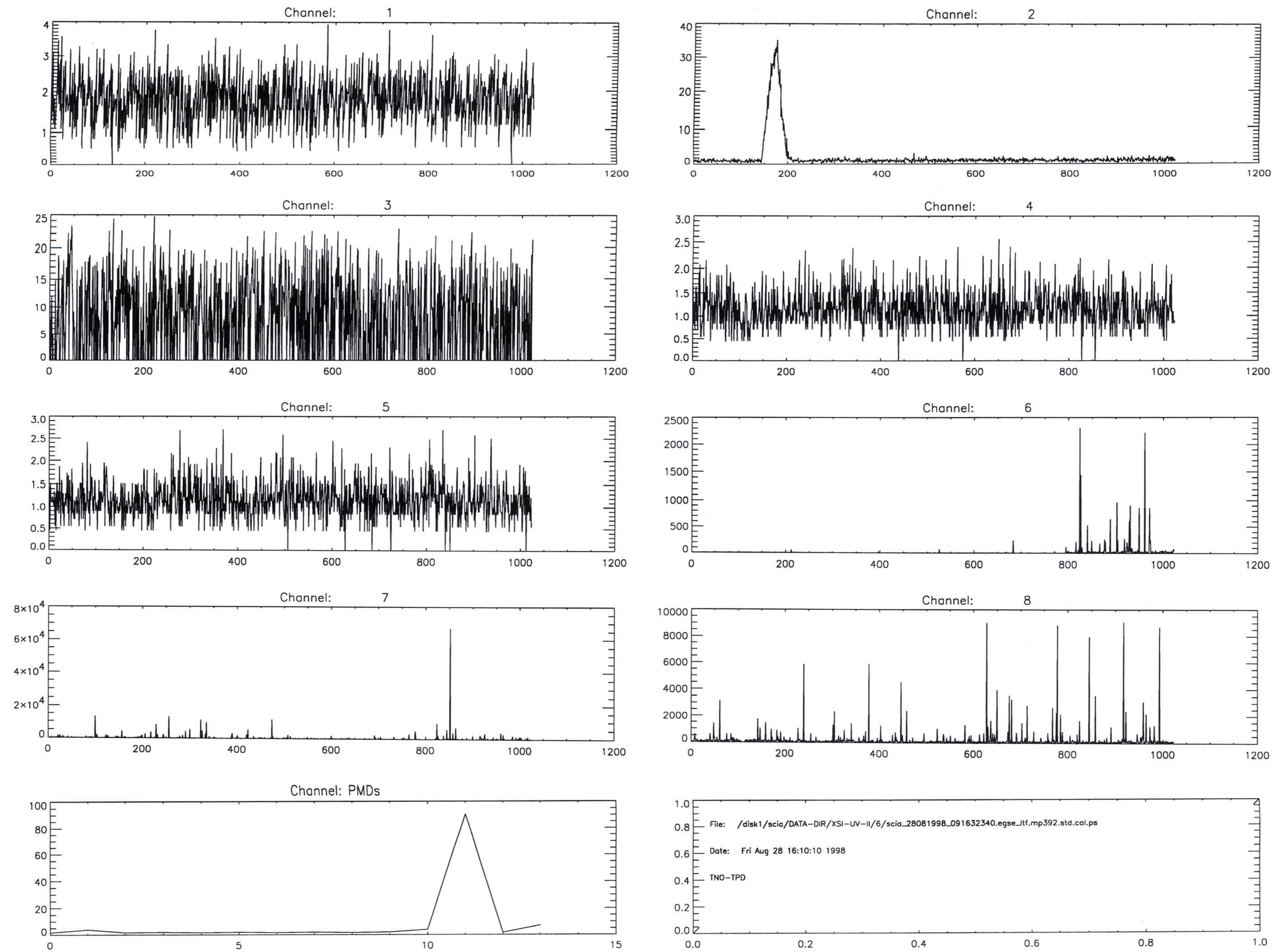




File: /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp392.rel_std.cal.ps

Date: Fri Aug 28 16:10:10 1998

TNO-TPD

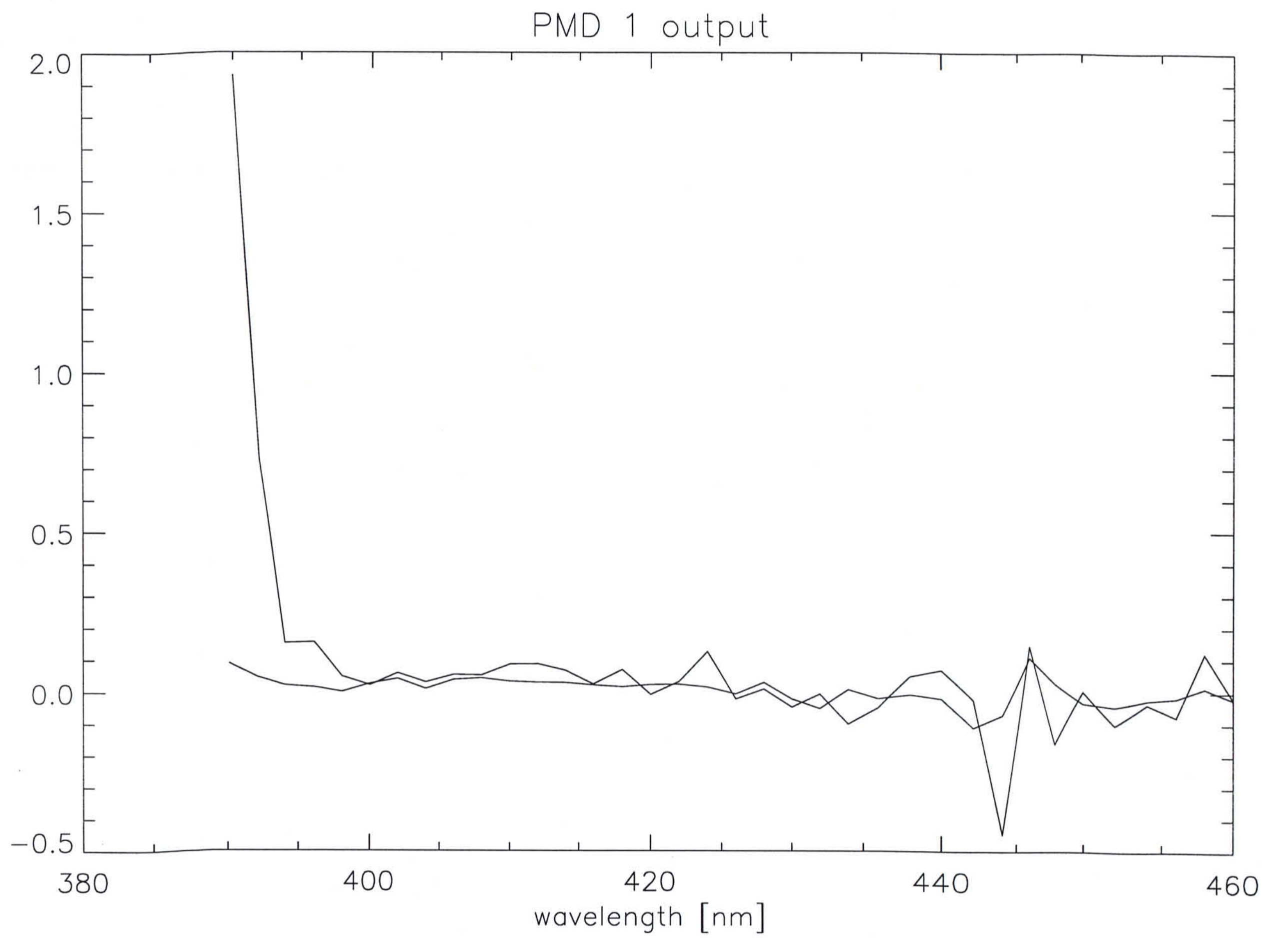

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp392.std.cal.ps
Date: Fri Aug 28 16:10:10 1998
TNO-TPD

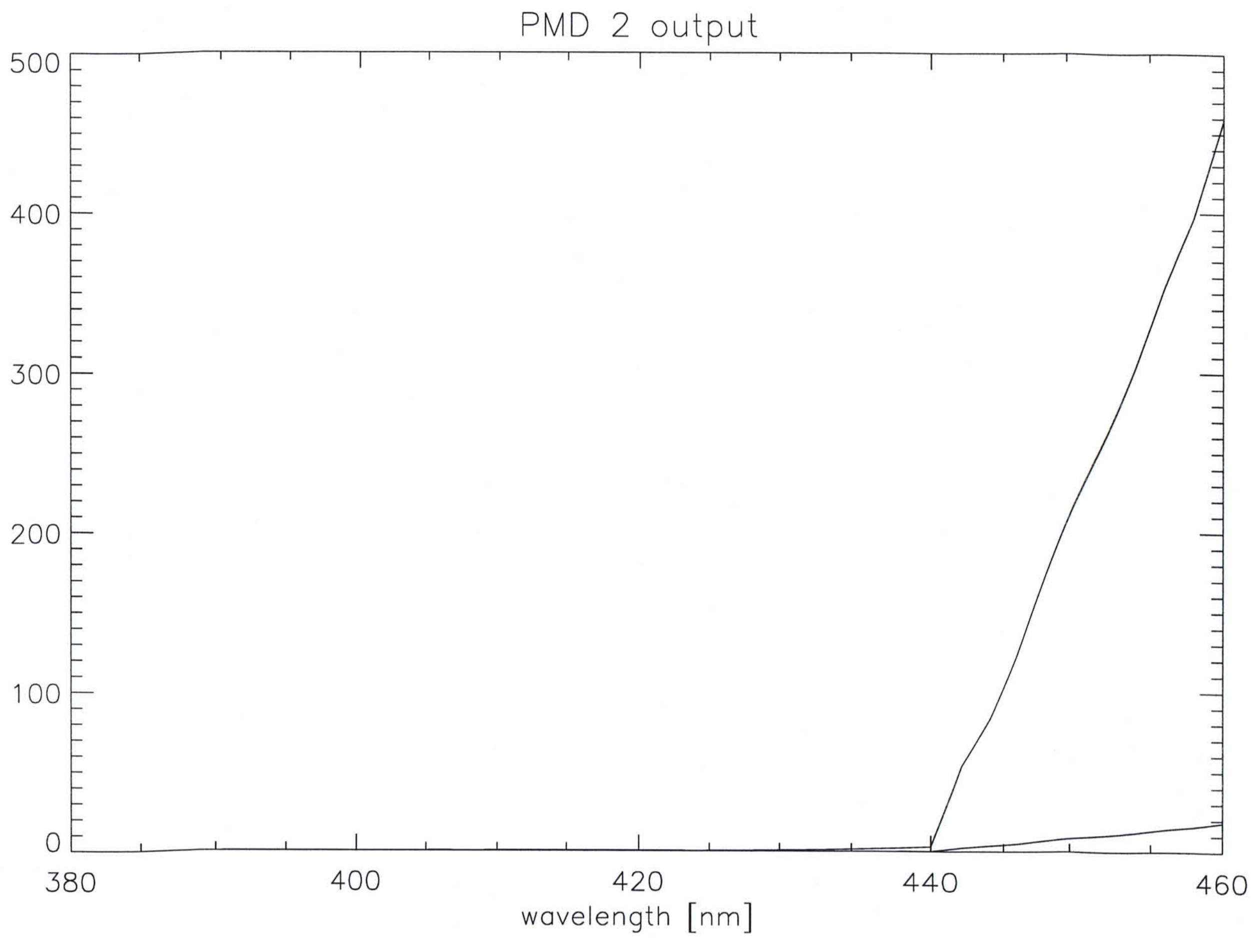
```
time        = Fri Aug  28 16:09:38 1998
batch       = mp390
Start TOD = Fri 28-Aug-98 09:23:53
End   TOD = Fri 28-Aug-98 09:30:29
Processing= computation of average, standard dev. and rel.standard dev.
```

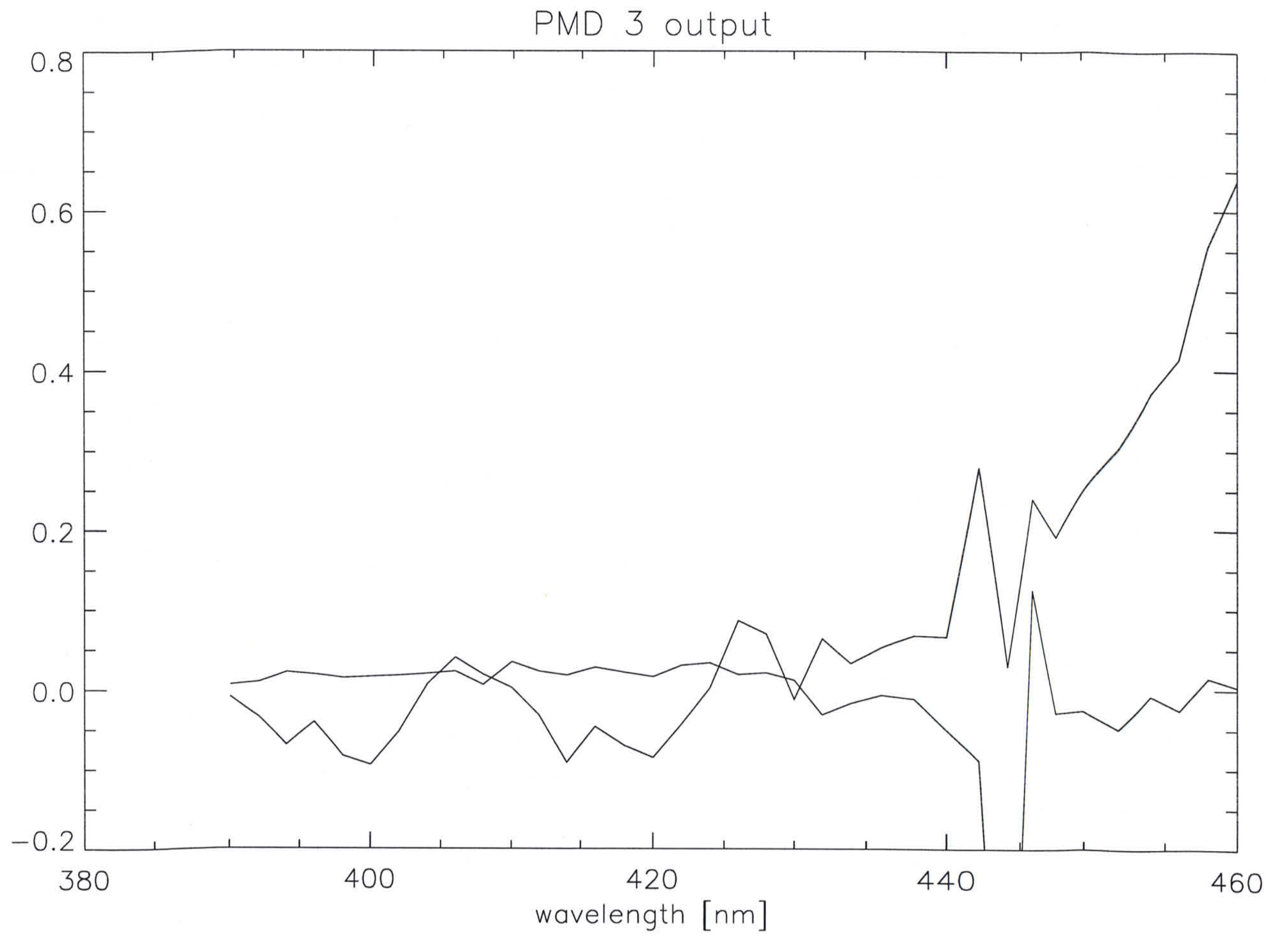
```
time        = Fri Aug  28 16:10:10 1998
batch       = mp392
Start TOD = Fri 28-Aug-98 09:30:29
End   TOD = Fri 28-Aug-98 09:36:52
Processing= computation of average, standard dev. and rel.standard dev.
```

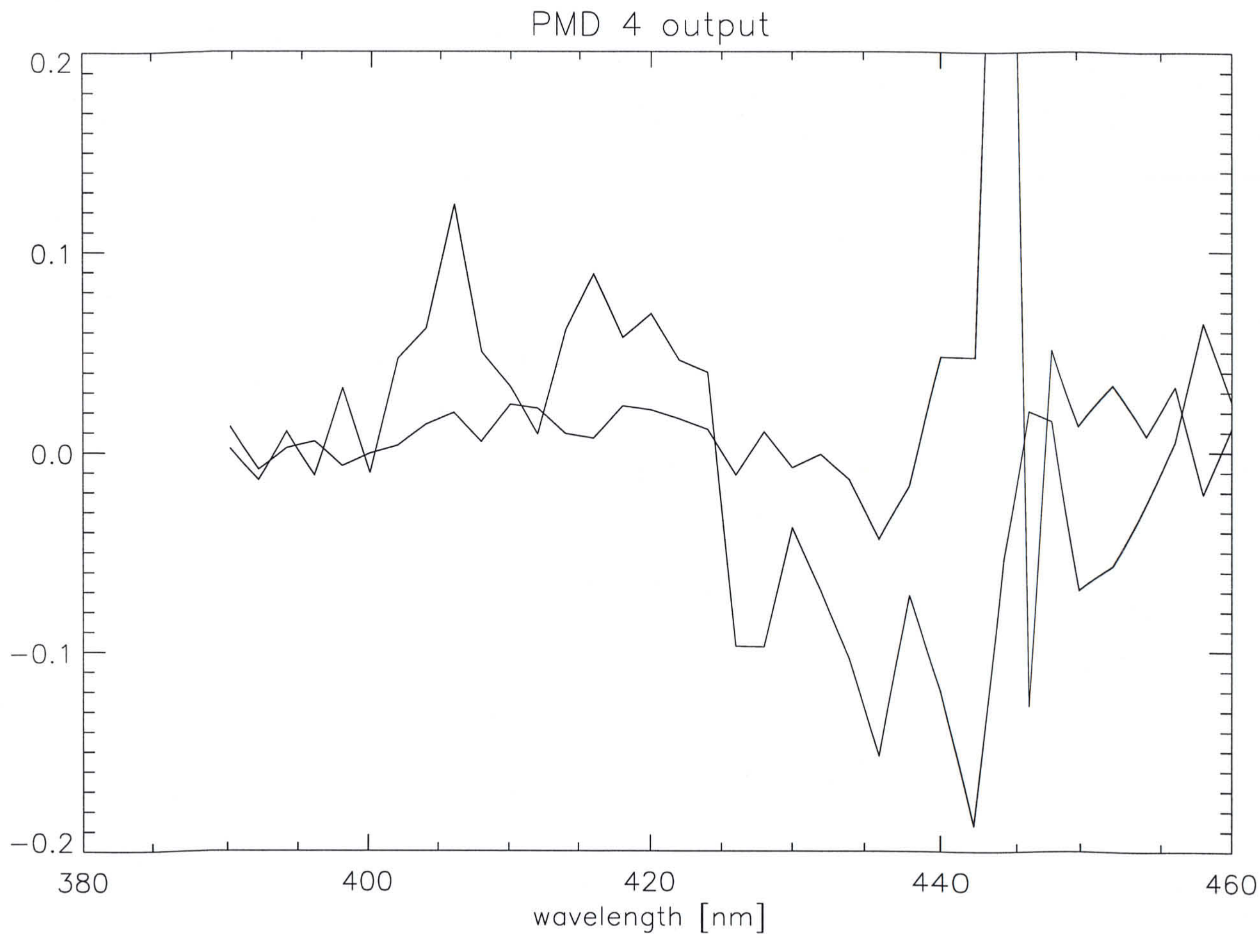
```
390.0 425.0 scia_28081998_091632340.egse_ltf.du1.avg.cal
425.0 460.0 scia_28081998_091632340.egse_ltf.du2.avg.cal
```

Control-file

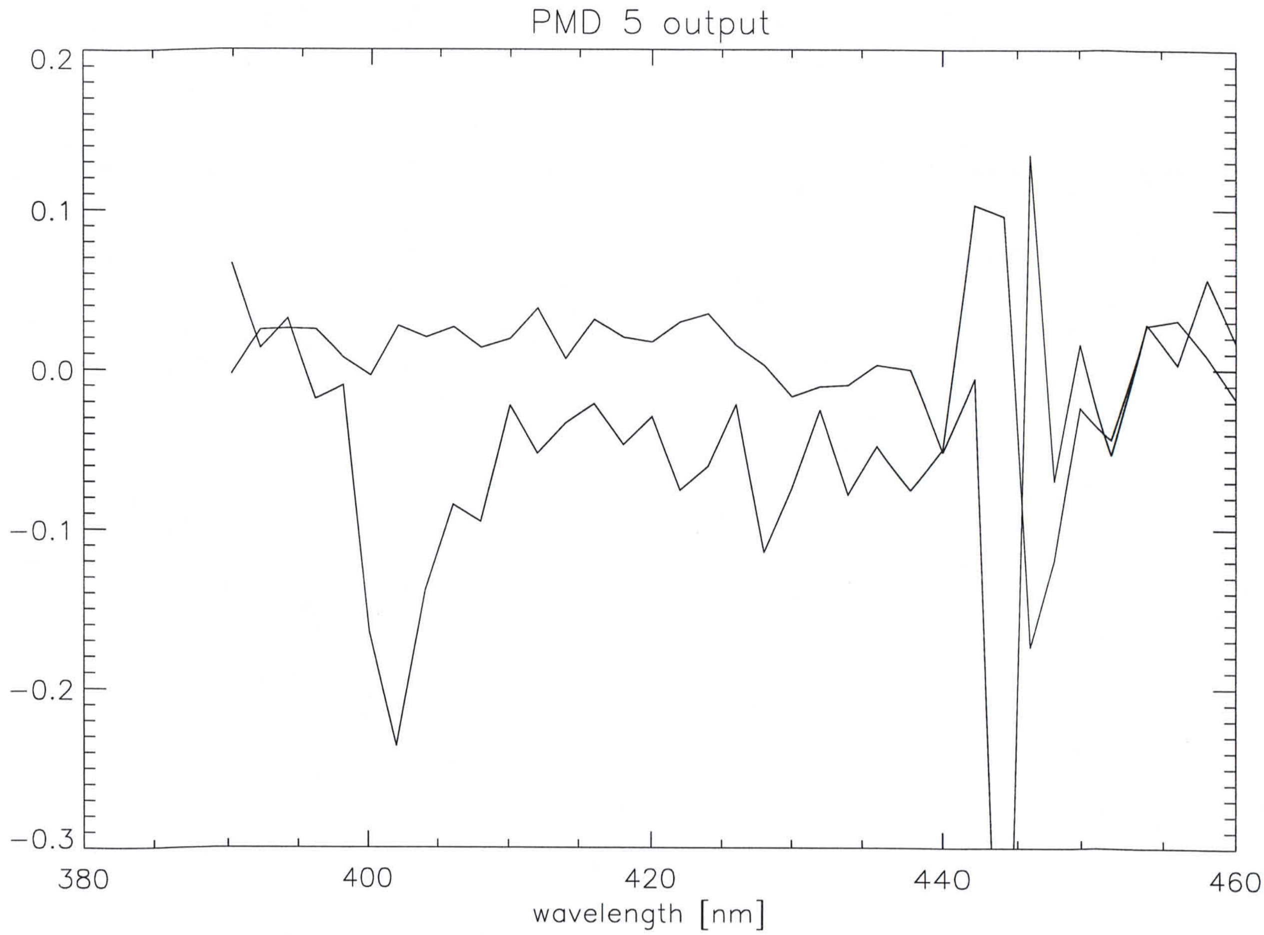

PMD 1 output
2.0
1.5
1.0
0.5
0.0
−0.5
380
400
420
440
460
wavelength [nm]


PMD 2 output
500
400
300
200
100
0
380
400
420
440
460
wavelength [nm]

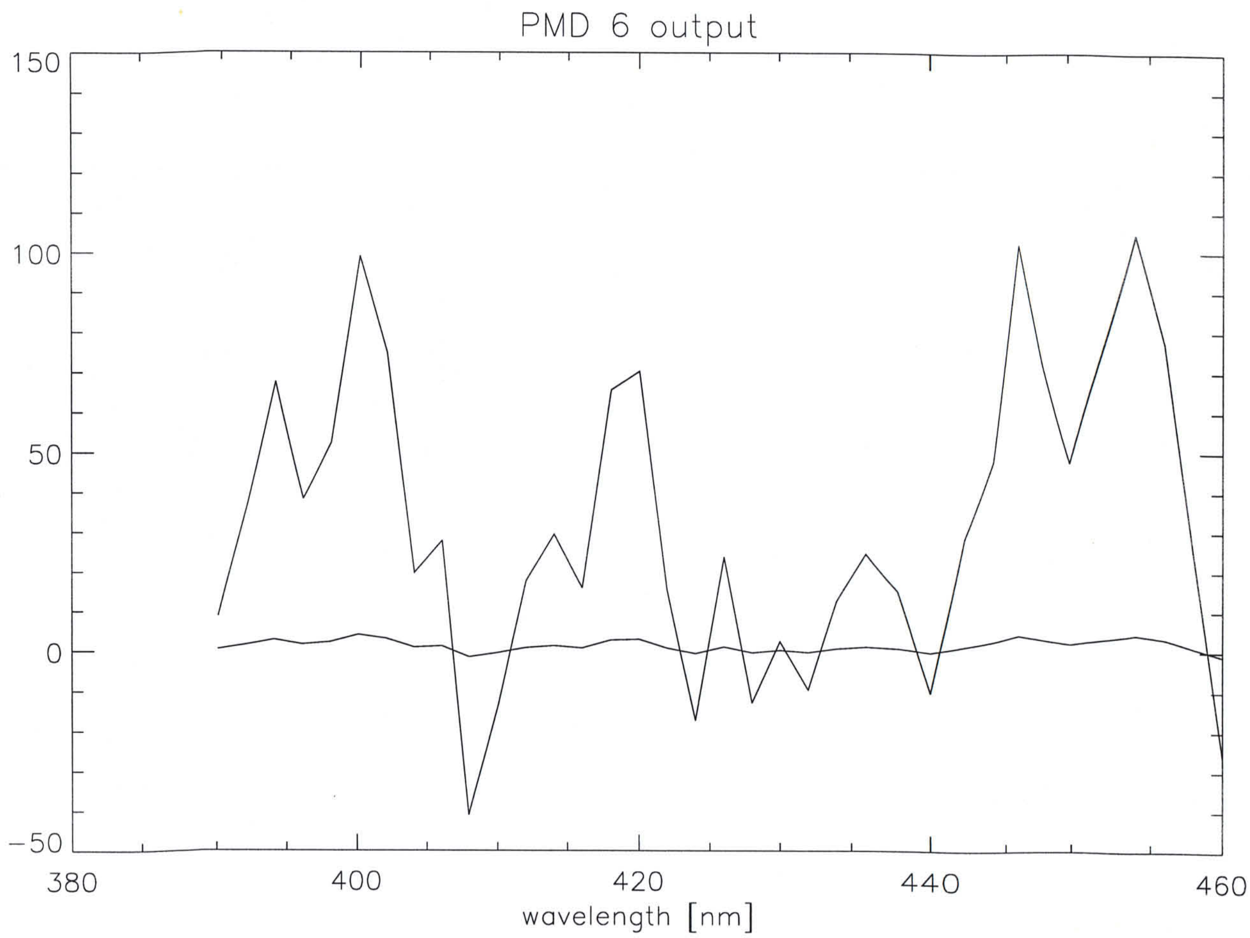

PMD 3 output
0.8
0.6
0.4
0.2
0.0
−0.2
380
400
420
440
460
wavelength [nm]

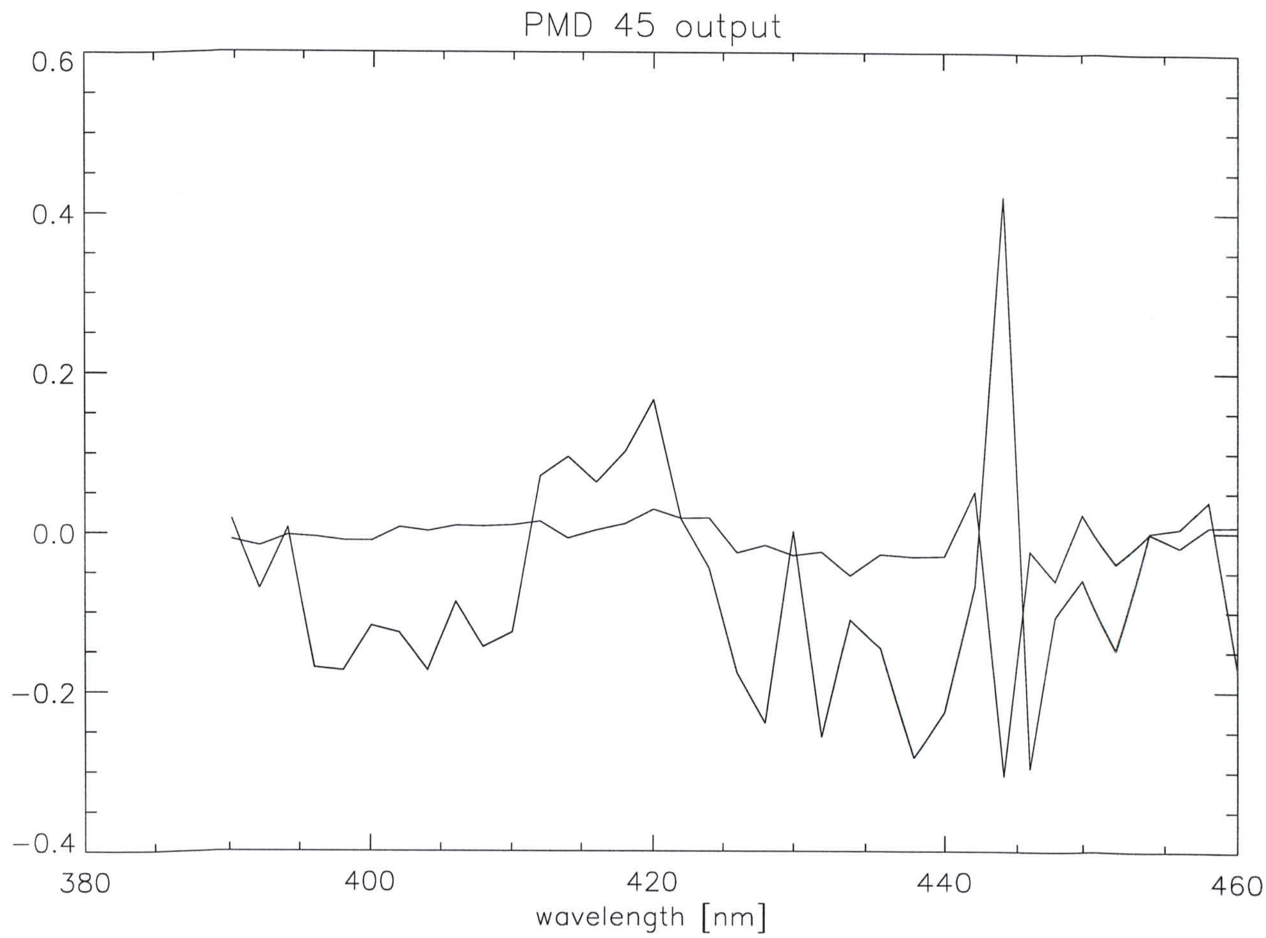


PMD 4 output
0.2
0.1
0.0
−0.1
−0.2
380
400
420
440
460
wavelength [nm]

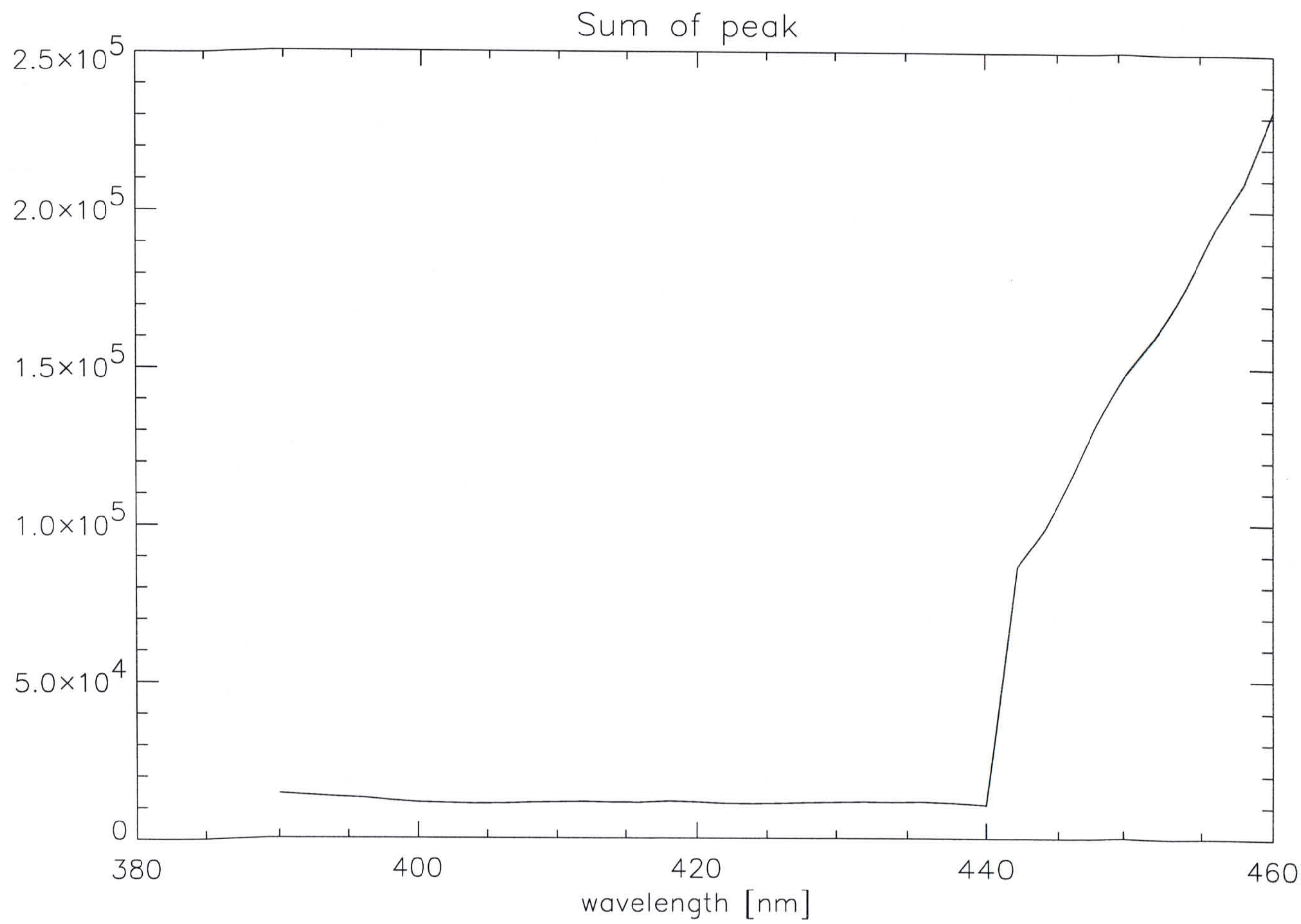


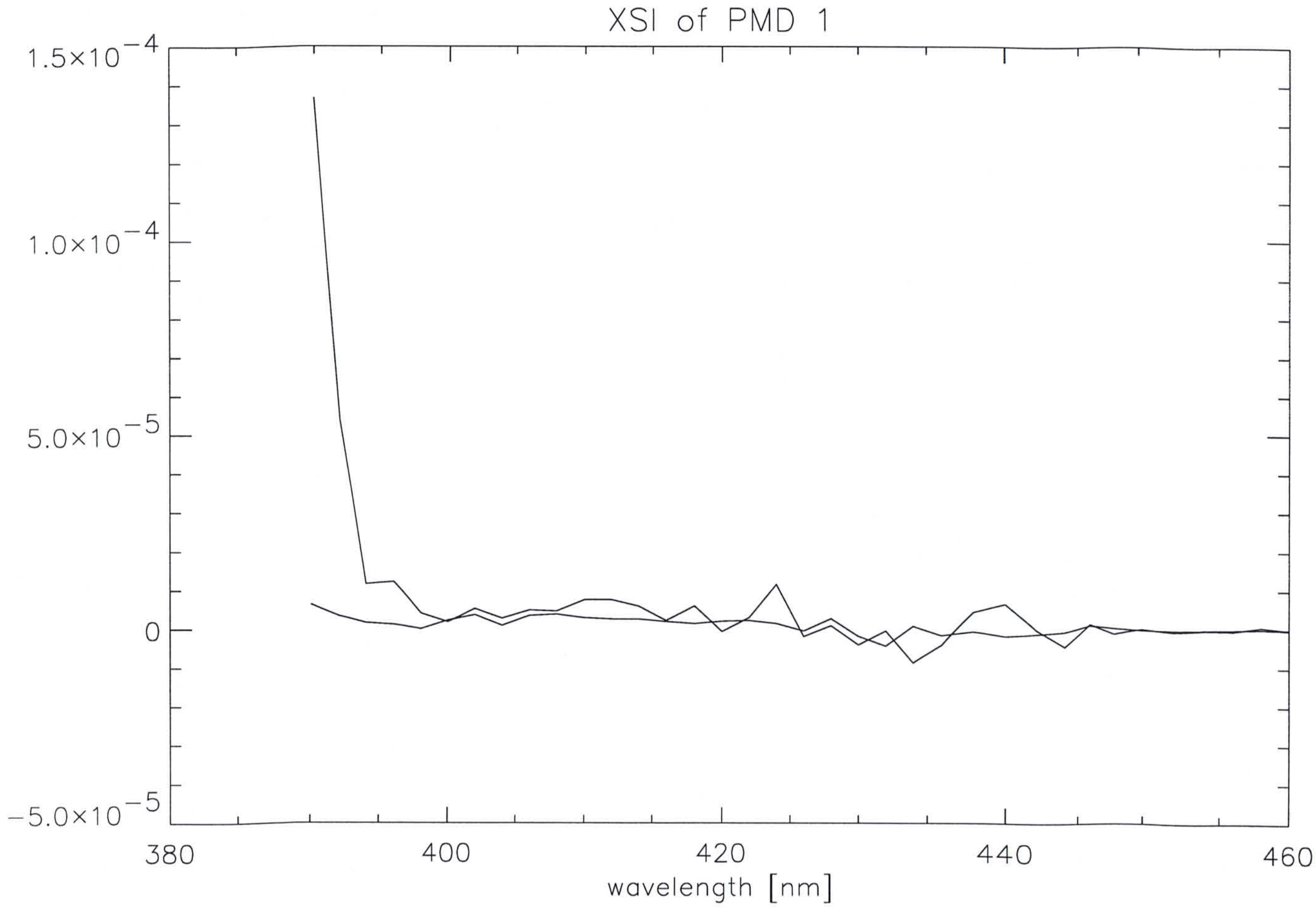
PMD 5 output
0.2
0.1
0.0
−0.1
−0.2
−0.3
380
400
420
440
460
wavelength [nm]

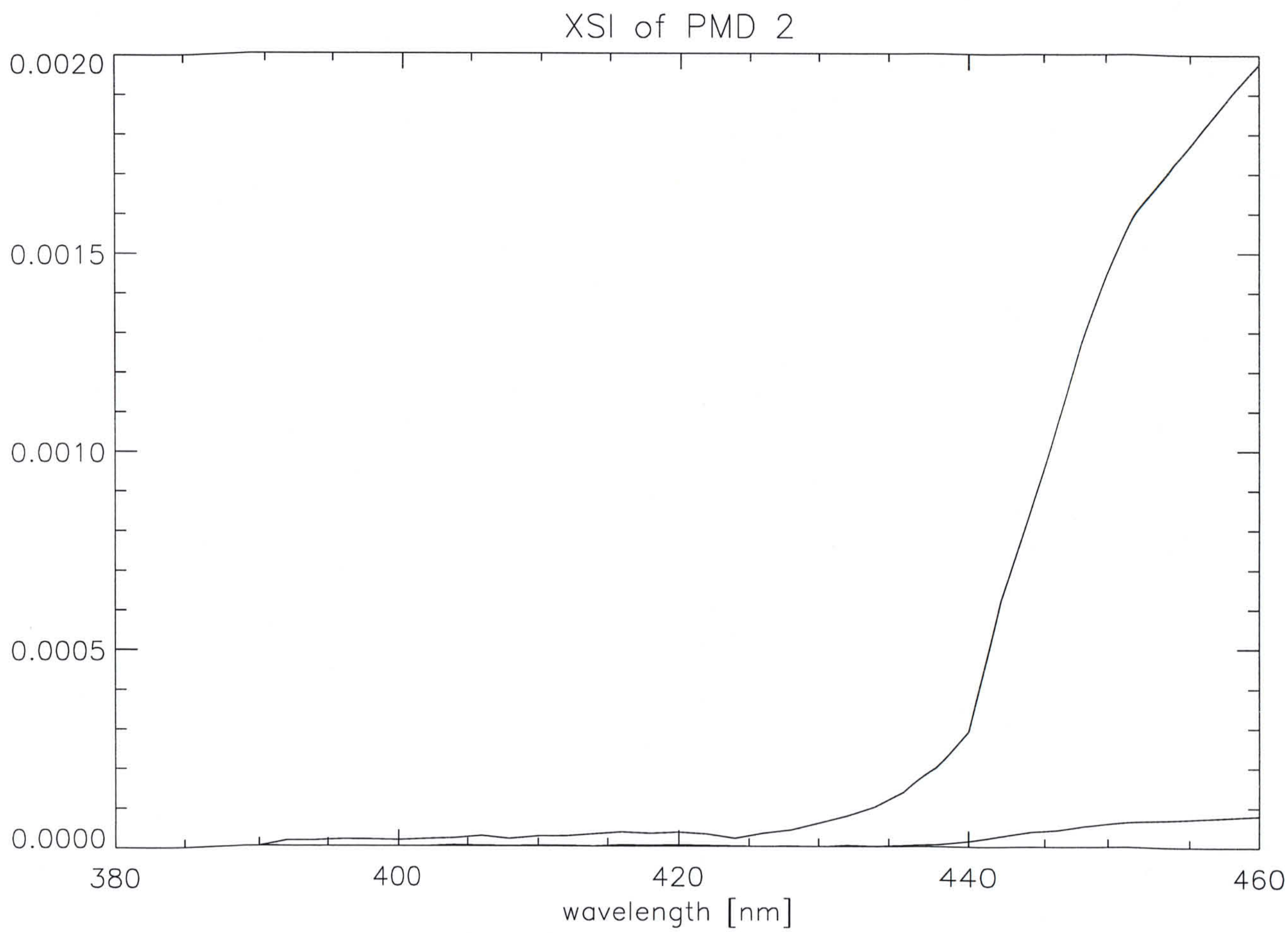

PMD 6 output
150
100
50
0
−50
380
400
420
440
460
wavelength [nm]

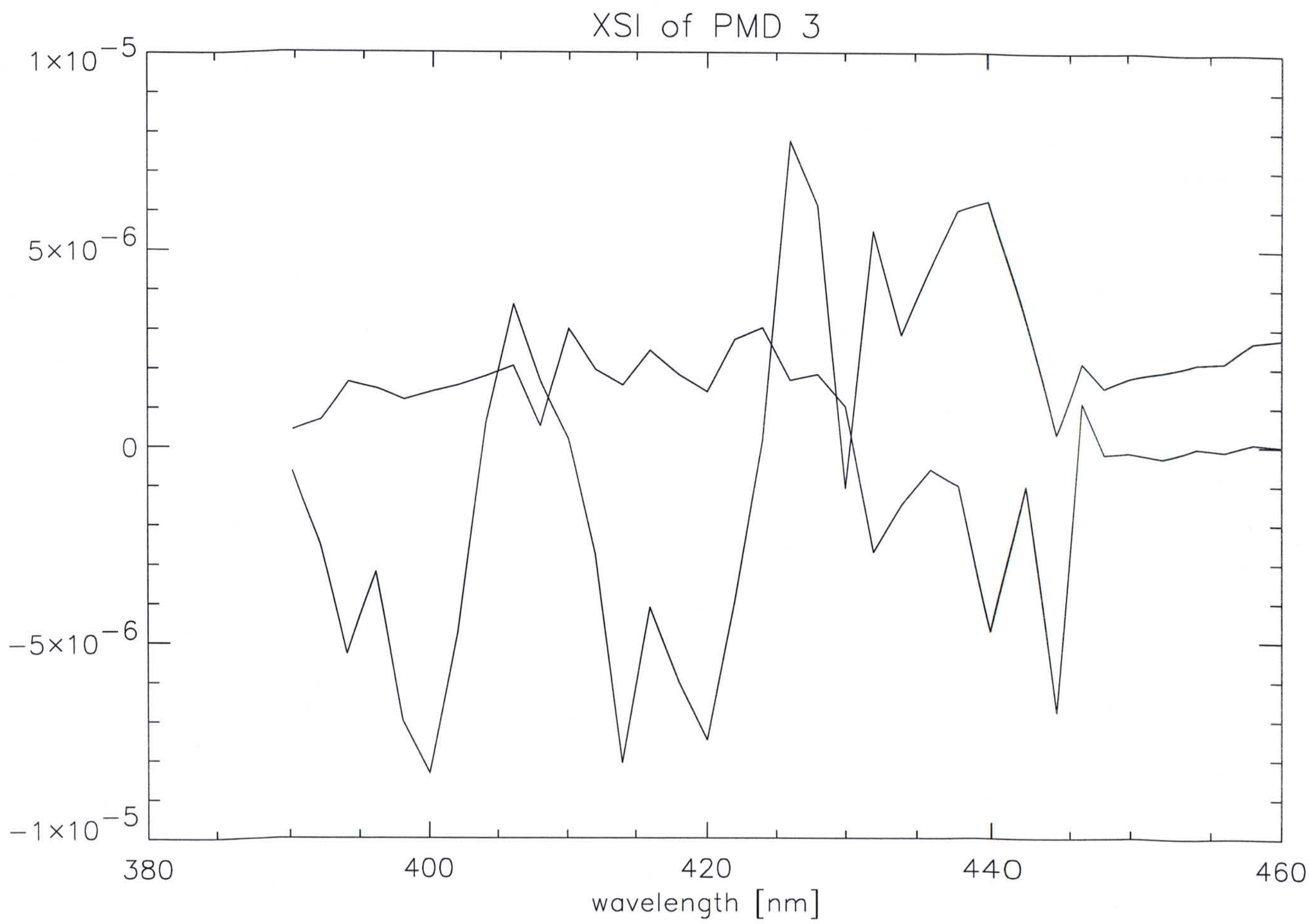


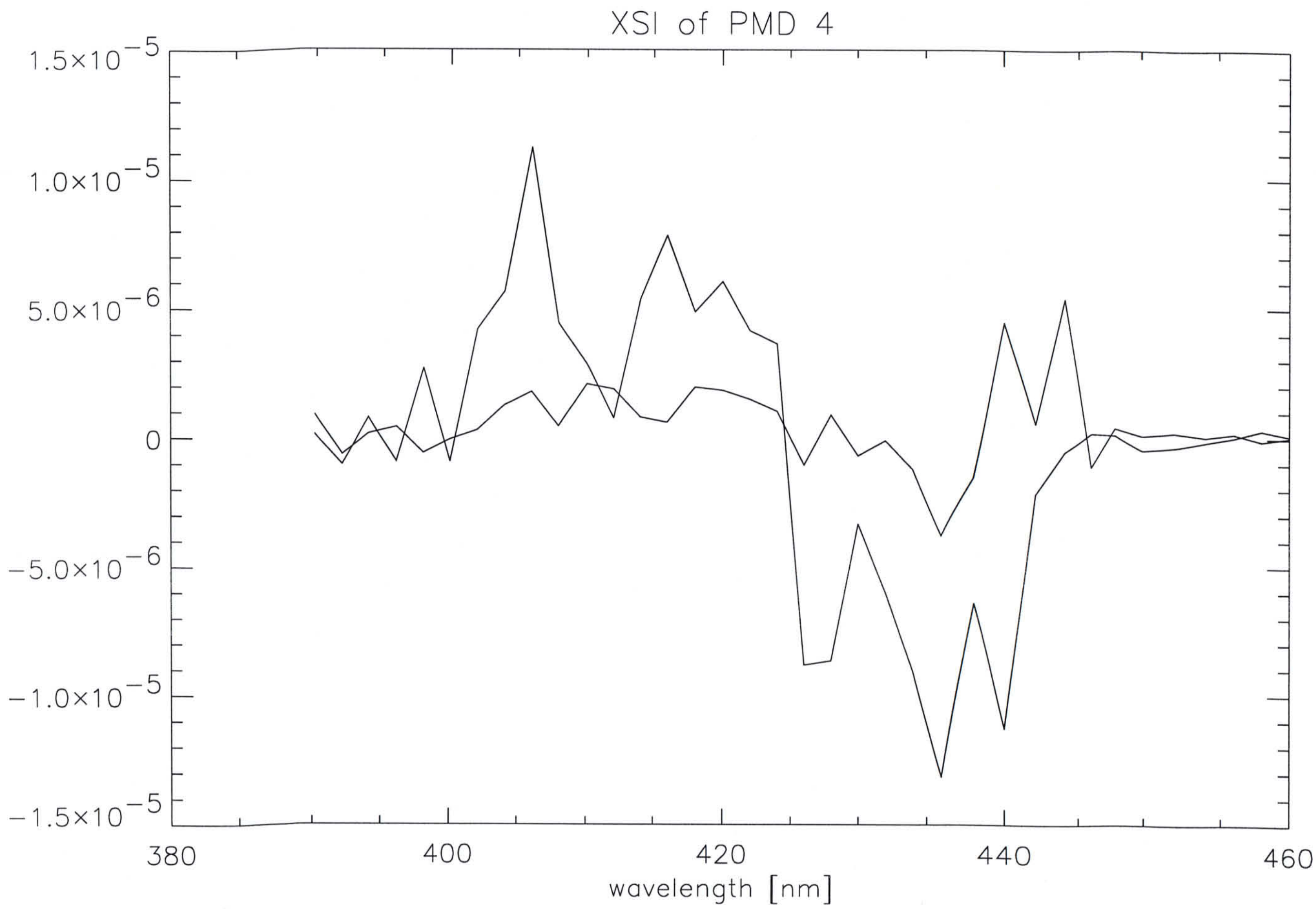
PMD 45 output
0.6
0.4
0.2
0.0
−0.2
−0.4
380
400
420
440
460
wavelength [nm]

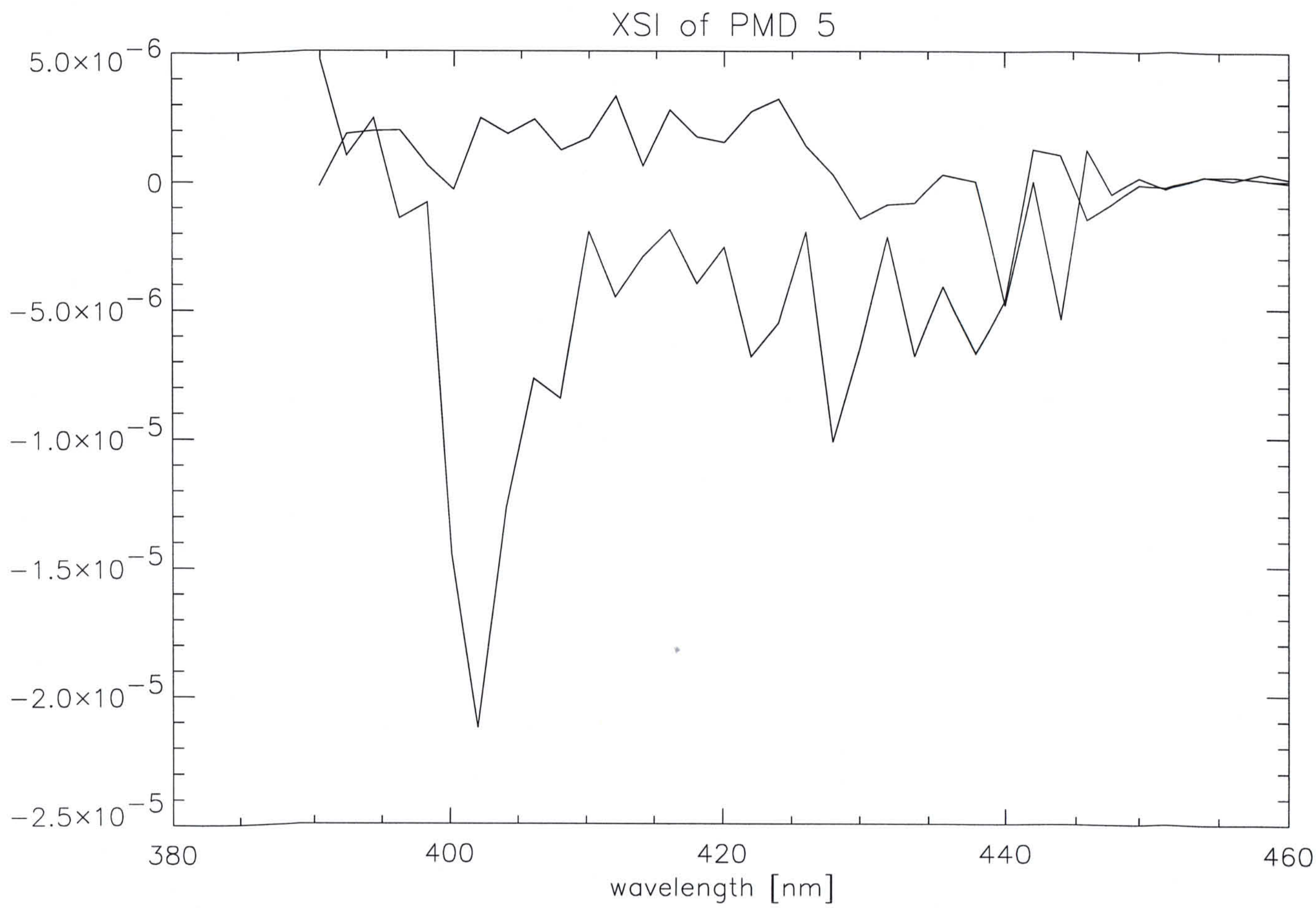

Sum of peak
2.5×10^5
2.0×10^5
1.5×10^5
1.0×10^5
5.0×10^4
0
380
400
420
440
460
wavelength [nm]

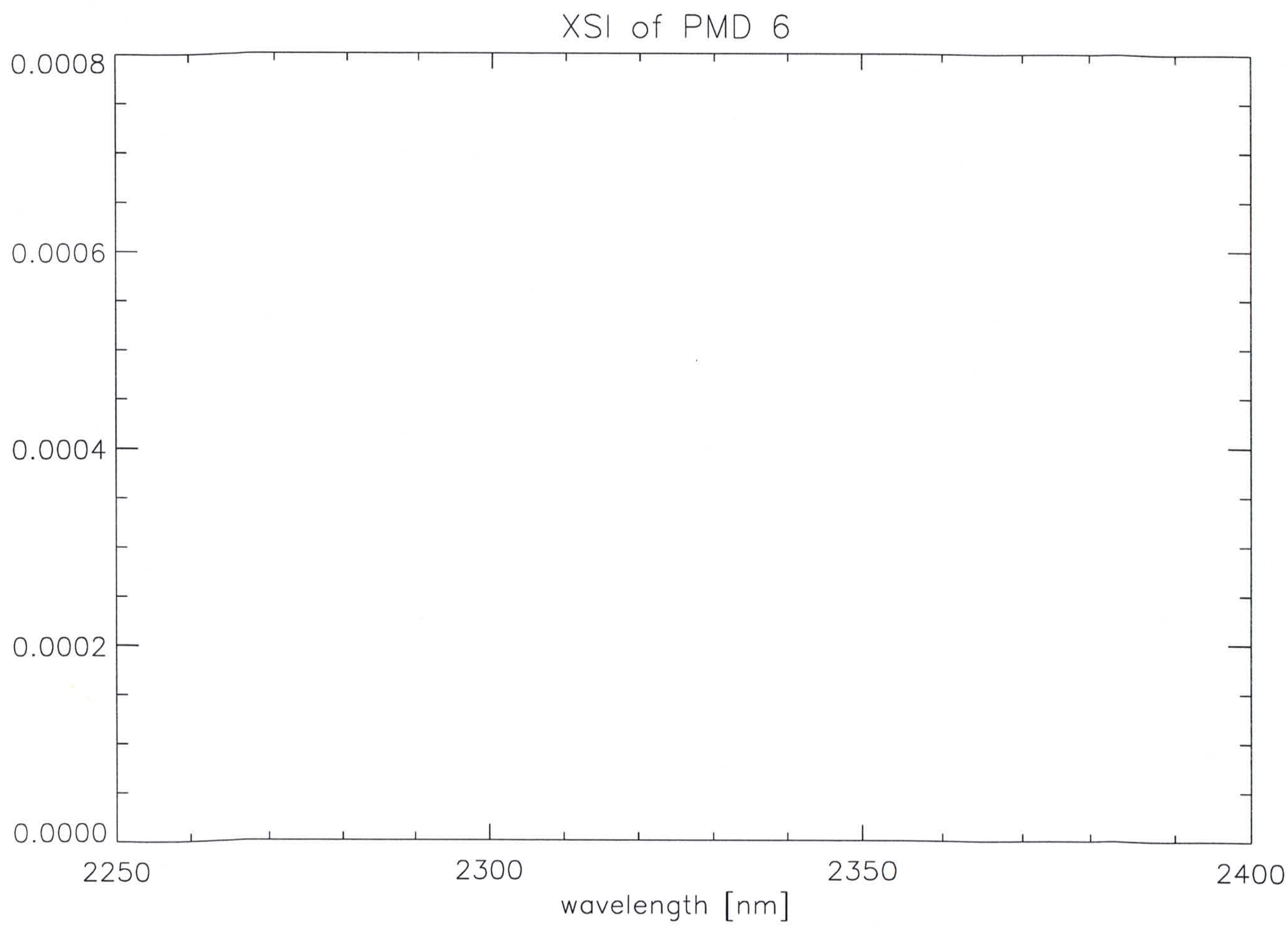

XSI of PMD 1
1.5×10^-4
1.0×10^-4
5.0×10^-5
0
-5.0×10^-5
380
400
420
440
460
wavelength [nm]

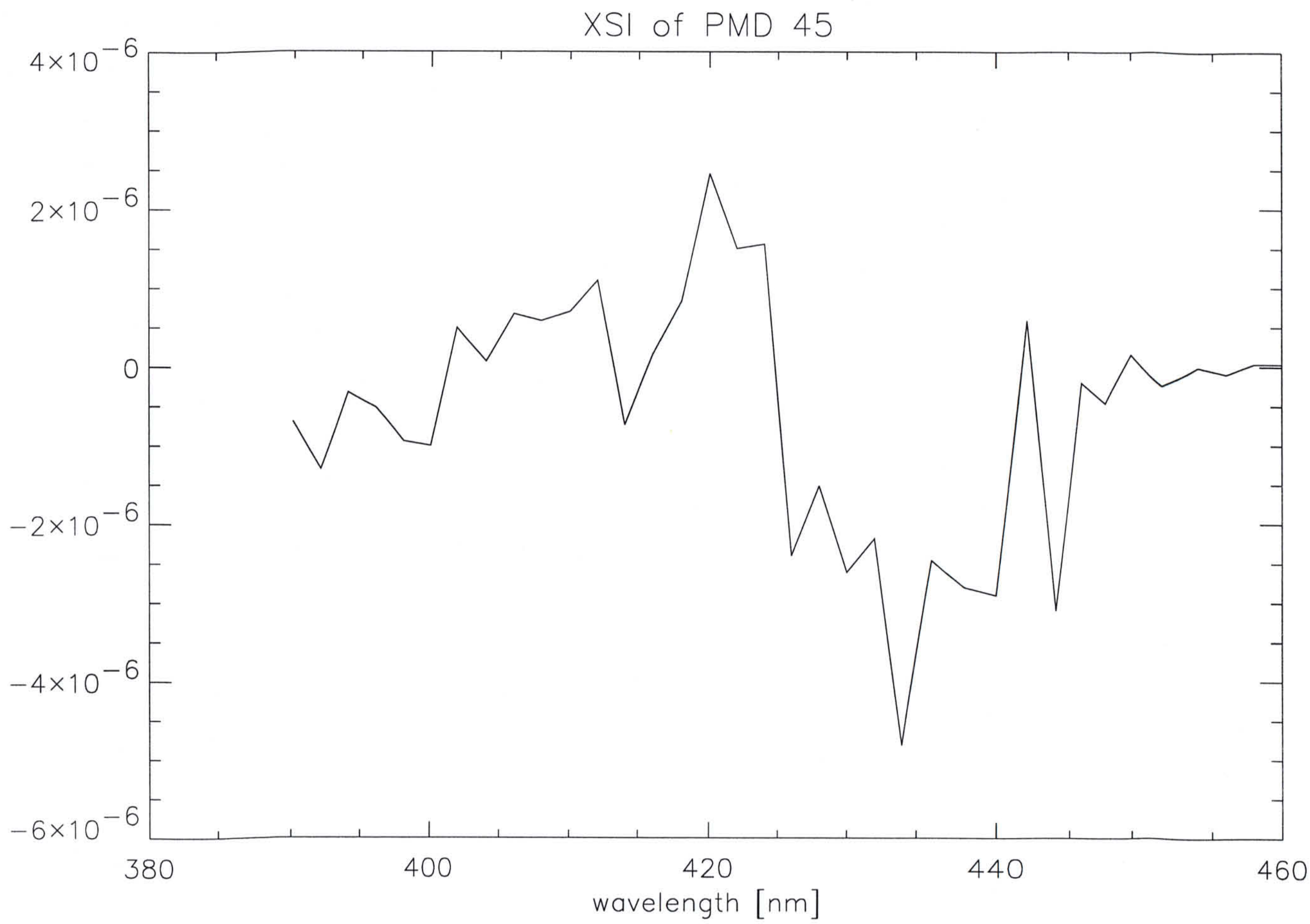

XSI of PMD 2
0.0020
0.0015
0.0010
0.0005
0.0000
380
400
420
440
460
wavelength [nm]


XSI of PMD 3
1×10^{-5}
5×10^{-6}
0
-5×10^{-6}
-1×10^{-5}
380
400
420
440
460
wavelength [nm]


XSI of PMD 4
1.5×10^{-5}
1.0×10^{-5}
5.0×10^{-6}
0
−5.0×10^{-6}
−1.0×10^{-5}
−1.5×10^{-5}
380
400
420
440
460
wavelength [nm]


XSI of PMD 5
5.0×10^{-6}
0
−5.0×10^{-6}
−1.0×10^{-5}
−1.5×10^{-5}
−2.0×10^{-5}
−2.5×10^{-5}
380
400
420
440
460
wavelength [nm]


XSI of PMD 6
0.0008
0.0006
0.0004
0.0002
0.0000
2250
2300
2350
2400
wavelength [nm]



XSI of PMD 45
4×10⁻⁶
2×10⁻⁶
0
−2×10⁻⁶
−4×10⁻⁶
−6×10⁻⁶
380
400
420
440
460
wavelength [nm]

```
Version:  0.1
Input files:  /disk1/scia/DATA-DIR/XSI-UV-II/6/control-file
 scia_28081998_091632340.egse_ltf.du1.avg.cal
 scia_28081998_091632340.egse_ltf.du2.avg.cal
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp390.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp392.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp394.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp396.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp398.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp400.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp402.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp404.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp406.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp408.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp410.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp412.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp414.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp416.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp418.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp420.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp422.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp424.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp426.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp428.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp430.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp432.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp434.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp436.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp438.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp440.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp442.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp444.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp446.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp448.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp450.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp452.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp454.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp456.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp458.avg.c
 /disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.mp460.avg.c
Processing:
Computation of XSI
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: Fri Aug 28 16:49:18 1998
Output file name:
/disk1/scia/DATA-DIR/XSI-UV-II/6/scia_28081998_091632340.egse_ltf.du1.avg.p1.c
```

LOG SHEET SCHIAMACHY CALIBRATION

Date/Time	Description of action	Measurement directory
28/8/98	mte Plate, PJ Nijssen, L v/d Spek	
	Dornier wanted to perform an internal WLS measurement in order to functional check the DAPB.	
	This measurement was also analysed.	
	Results are presented on the following pages	
	...	

Formal Run of Measurement

(Measurement ID) WLS_INT TEST

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

Scanner Positions

Azimuth		deg
Elevation		deg

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								

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	TEST
Remark	
Data Directory	0240_14.39.05_WLS_INT

Signatures

	Date	Signature
Issued		
< Performed	28/8/98	[illegible]

STEP	ACTION	RESULT	MARKER
Intro	Your name:	PO Nijssen	
	Date:	280898	
	What's the name of the (main) data input files generated by the EGSE? (*.dat)	scia-28081998-144214758.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?	13	Note: In window DATA-DIR (B)
	New directory: mkdir <B+1> ls -l What's now the highest number in directory?	14	(Do this only when you haven't already a directory with the source file for PPG purposes.) (C)
	<C> should be <B> + 1	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.		In DATA-DIR Window
	When running the ETALON analysis, you will be asked to select this direcotory when storing the resulting ETALON correction file.		

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; your current directory should be ~/DATA-DIR/WLS/<C>; don't forget the dot !!! May take more than 15 mins.
	What's the name of the egse_ltf file scia_28081998-144214750. 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: du qu 146kb	should be approx 150Kb
	White light file: `ls -l *wu*.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, 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	

qu-rel-std for channel 5 almost 1%!

	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`	146 kb.	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	

(*) When asked a file containing reference WLS spectrum (START-OF-CAL) select the right subdirect.

START-OF-CAL-WARM or START-OF-CAL-COLD.

(depending on detector temp.)

if using an external lamp use:

EXTERN-START-OF-CAL-COLD

OR EXTERN-START-OF-CAL-WARM

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	PJ Nyssen.

280890 17:05

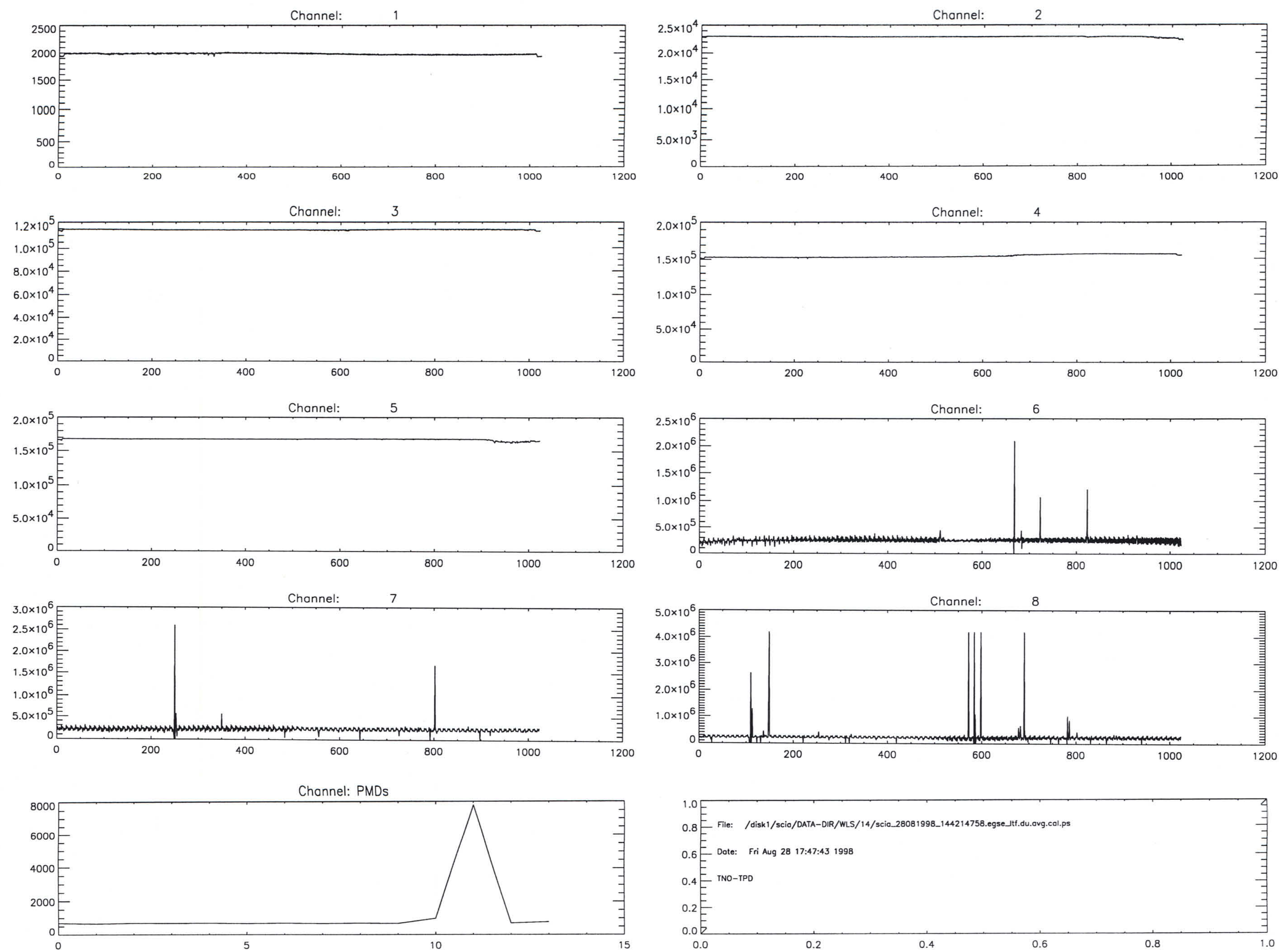
STEP	ACTION	RESULT	MARKER
Intro	Your name:	PJ Nijssen.	
	Date:	280898	
	What's the name of the (main) data input files generated by the EGSE? (*.dat)	scia-28081998_144214758_egse.lH.	(A)
	Setup a three-window configuration on your SUN.		See course descr.
Cnstr directory	`cd ~/DATA-DIR/WLS ; ls -l`		Note: In window DATA-DIR
	highest number in directory?		(B)
	New directory: `mkdir <B+1>`		
	`ls -l`		
	What's now the highest number in directory?	14	(C)
	<C> should be <B> + 1	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`		In DATA-DIR window
	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.		

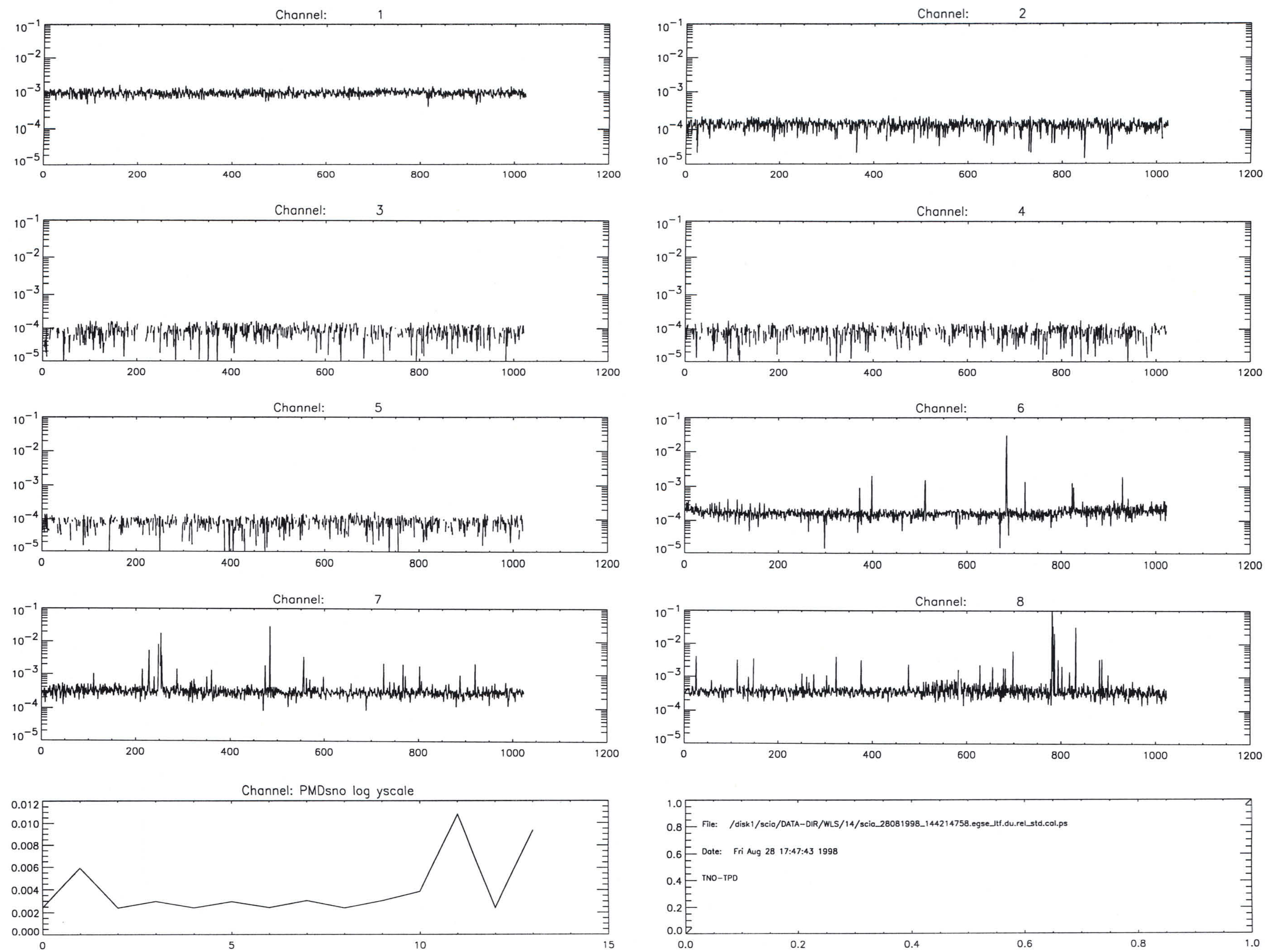
Cnstr EGSE_LTF	`cal_raw2ltf .` (Error messages are not necessarily fatal; check with SOLAN --in solan window-- whether output file is okay: there should be a signal present, and `dremark1` labels should be filled) `ls -l *.egse_ltf`		Note: In window DATA-DIR; your current directory should be ~/DATA-DIR/WLS/<C>; 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`		
	size:	______________________	should be approx 150Kb
	White light file: `ls -l *.wu*.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, 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 * Size of file *.du*.cal.ppg.cal	146 kb.	In DATA-DIR Window should be approx 150Kb
	Size of file *.du*.cal.ppg.cal.log	363 b.	
	Size of file *.du*.cal.ppg.c~~al~~.ps	146 kb.	
Check PPG visually	lpr -P<printer> *.du*.cal.ppg.c~~al~~.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	____________	
Sign:	Name	PD	
	Date and time	280898 17:15	

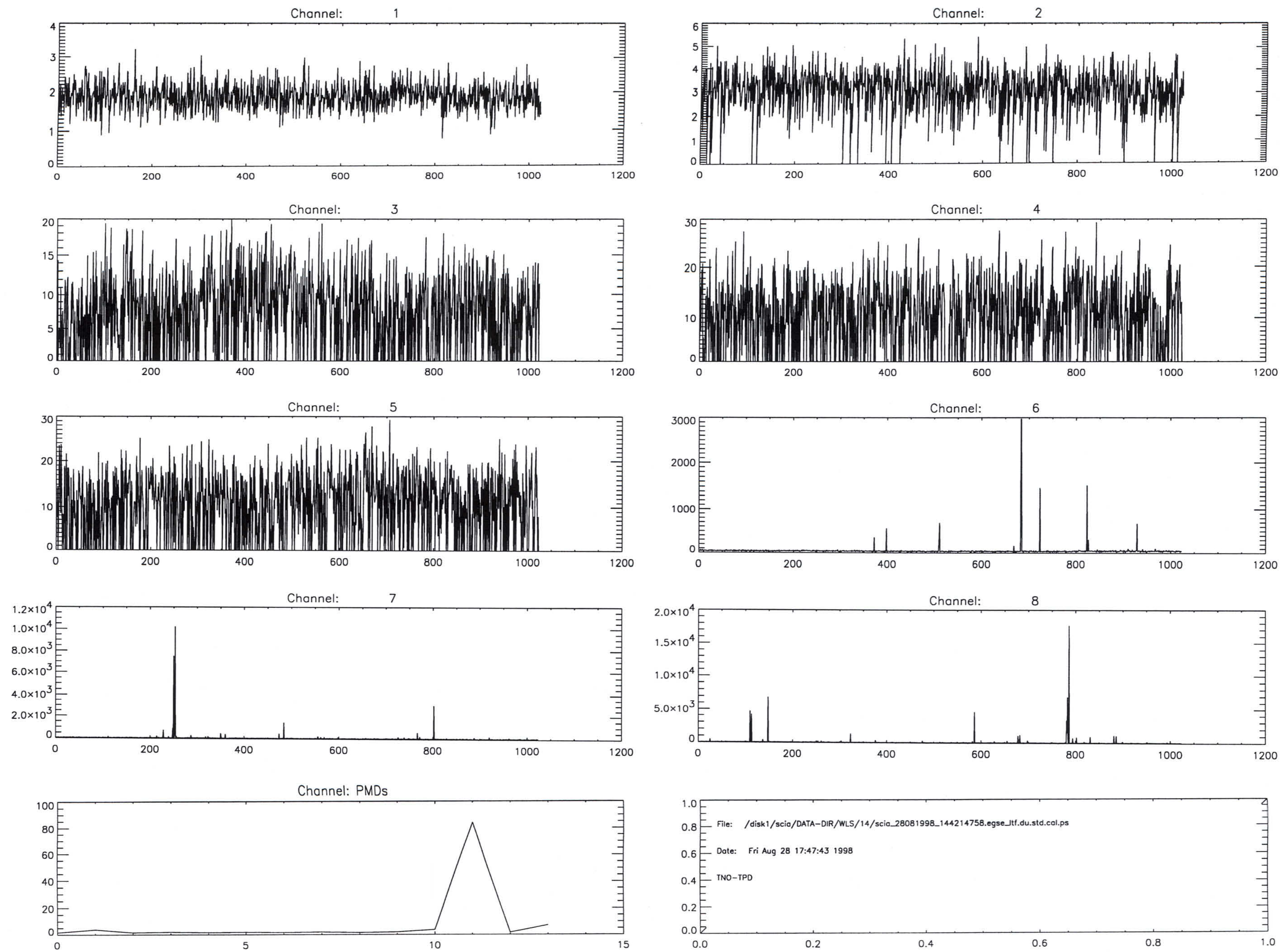
STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	PJ Nijssen 280898	
	What's the name of the (main) data input files that you want to store on the SUN named `scia6`?	scia-28081998-144214758.dat	(A)
	Setup a three-window configuration on your SUN.		See course descr.
Do Transfer	Be sure that you are in the directory you want your files in		In DATA-DIR window
	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.	1	In DATA window
	Set in binary: `binary` `mget *` (and return `y` to every file). `bye`		Approx. 140 kB

Sign:	Name	PJ Nijssen
	Date and time	280898 15:45
	Signature	PJNijssen

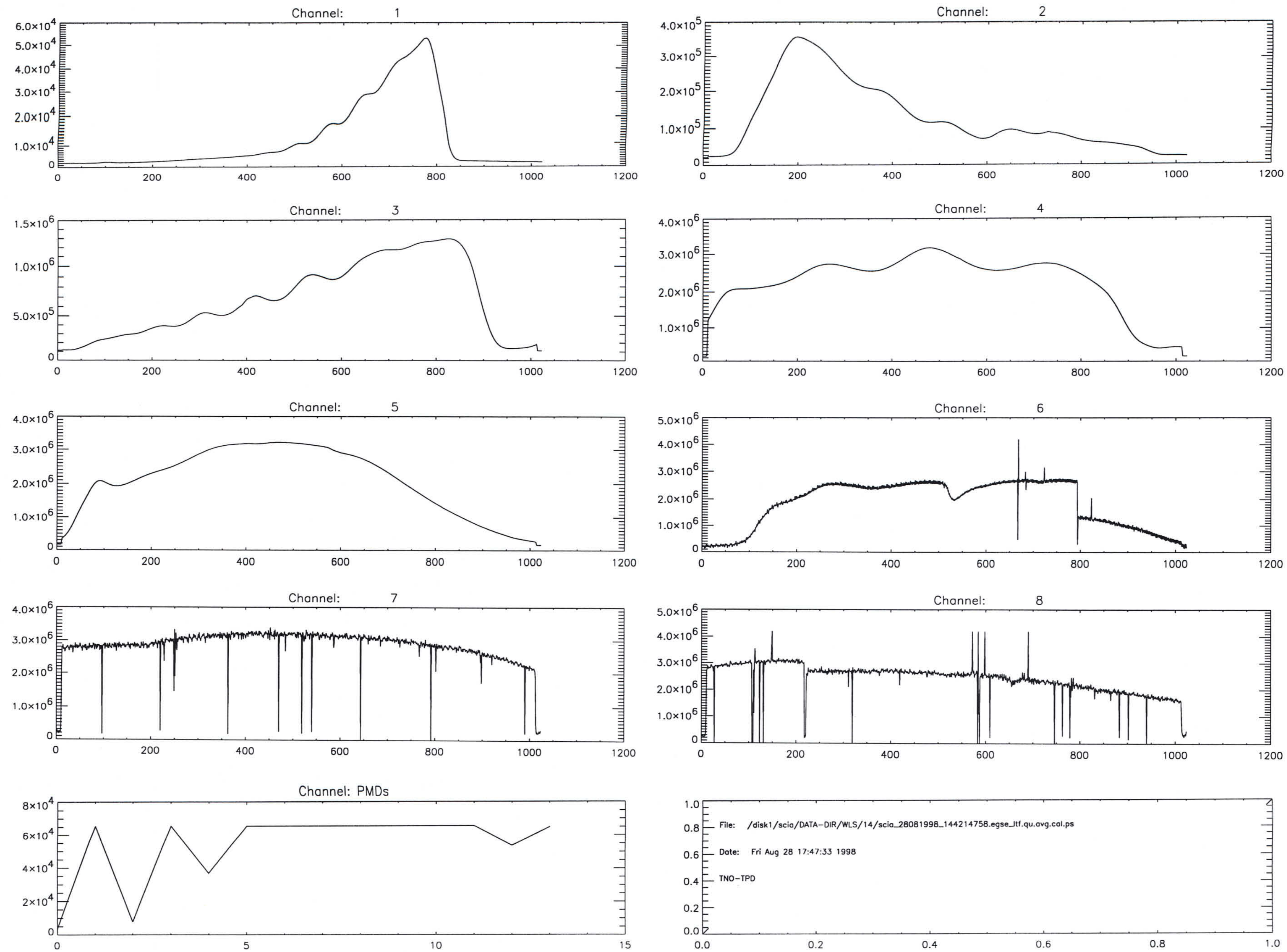

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/WLS/14/scia_28081998_144214758.egse_ltf.du.avg.cal.ps
Date: Fri Aug 28 17:47:43 1998
TNO-TPD



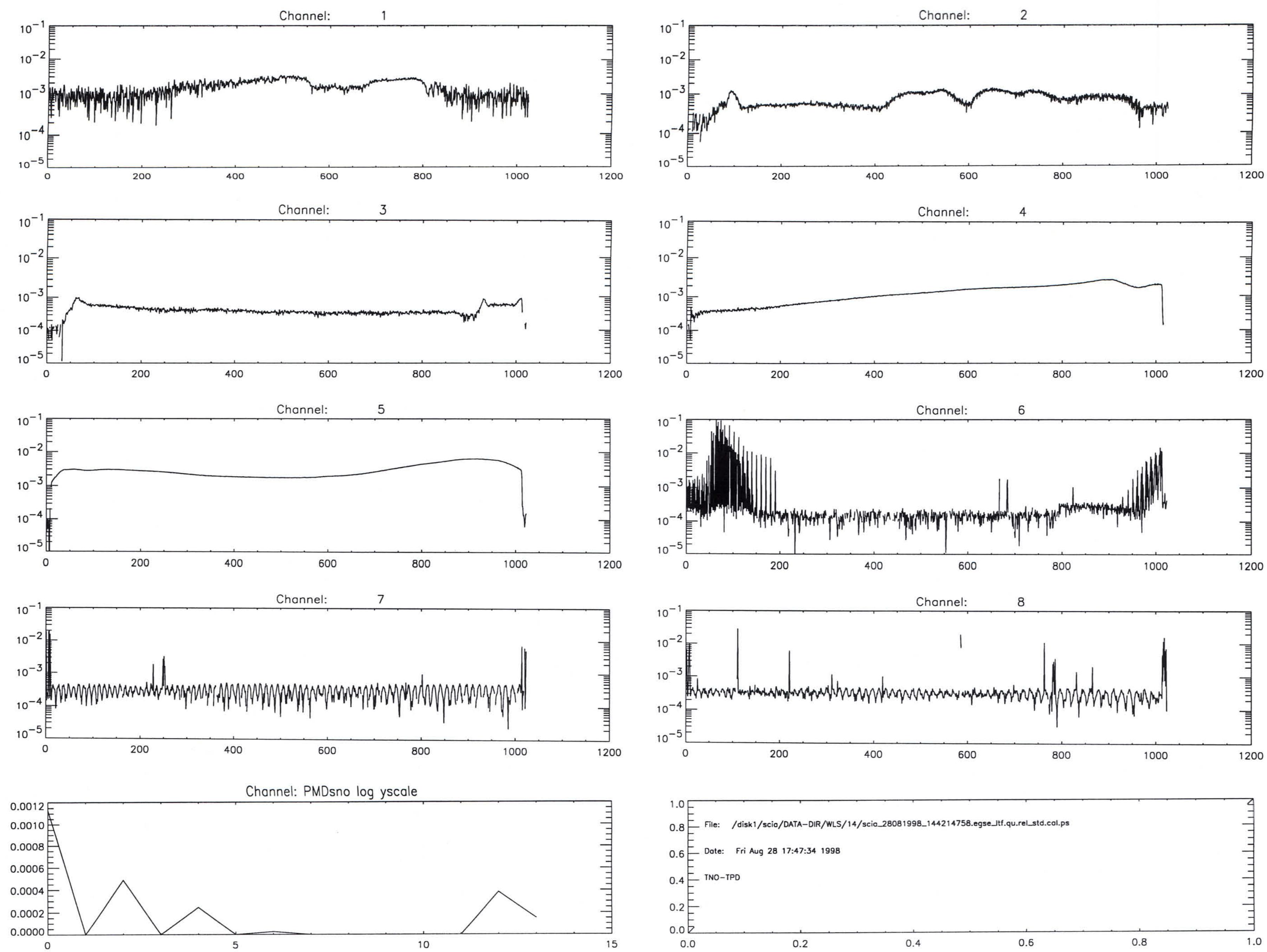
Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/WLS/14/scia_28081998_144214758.egse_ltf.du.rel_std.cal.ps
Date: Fri Aug 28 17:47:43 1998
TNO-TPD

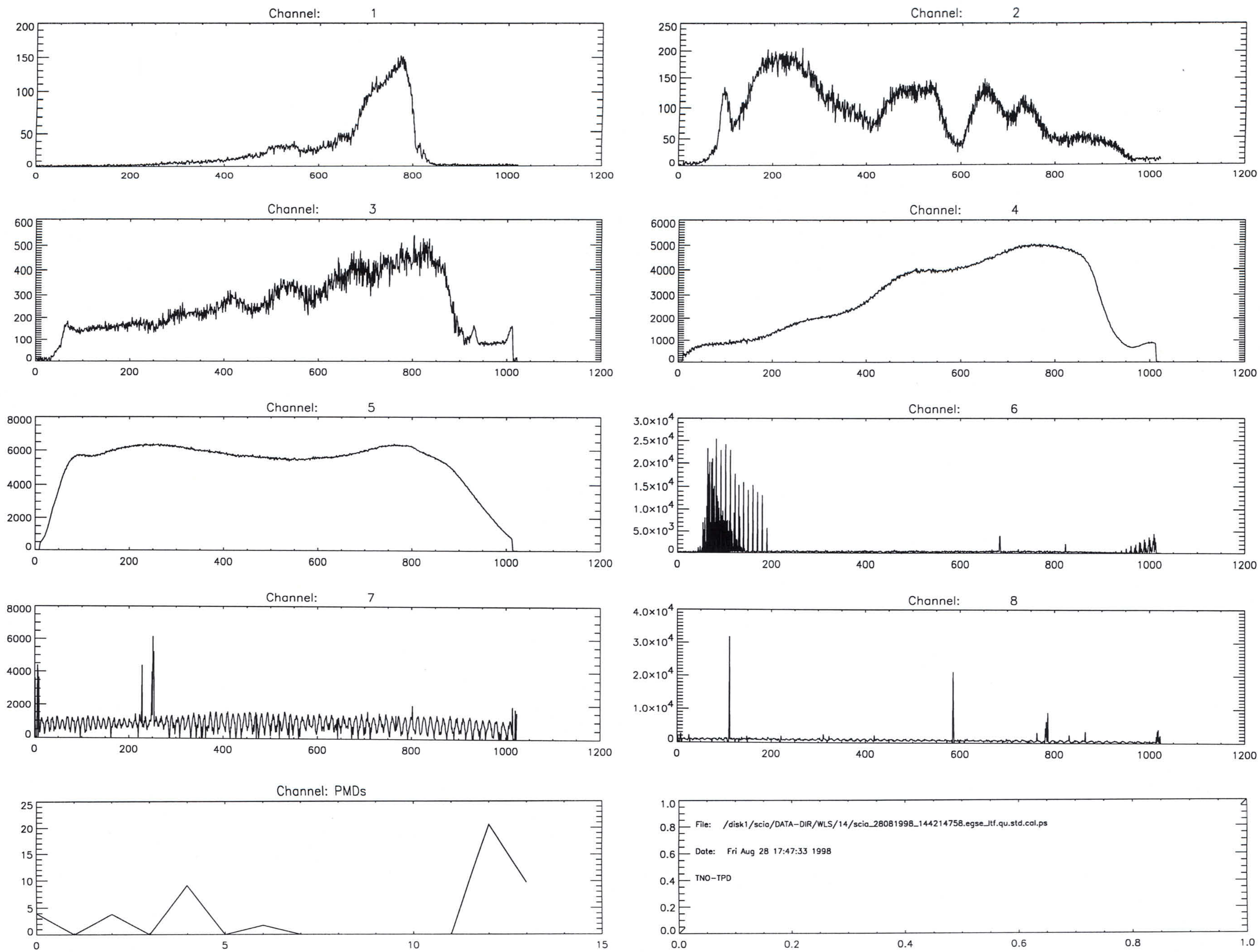


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/WLS/14/scia_28081998_144214758.egse_ltf.du.std.cal.ps
Date: Fri Aug 28 17:47:43 1998
TNO-TPD



Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/WLS/14/scia_28081998_144214758.egse_ltf.qu.avg.cal.ps
Date: Fri Aug 28 17:47:33 1998
TNO-TPD

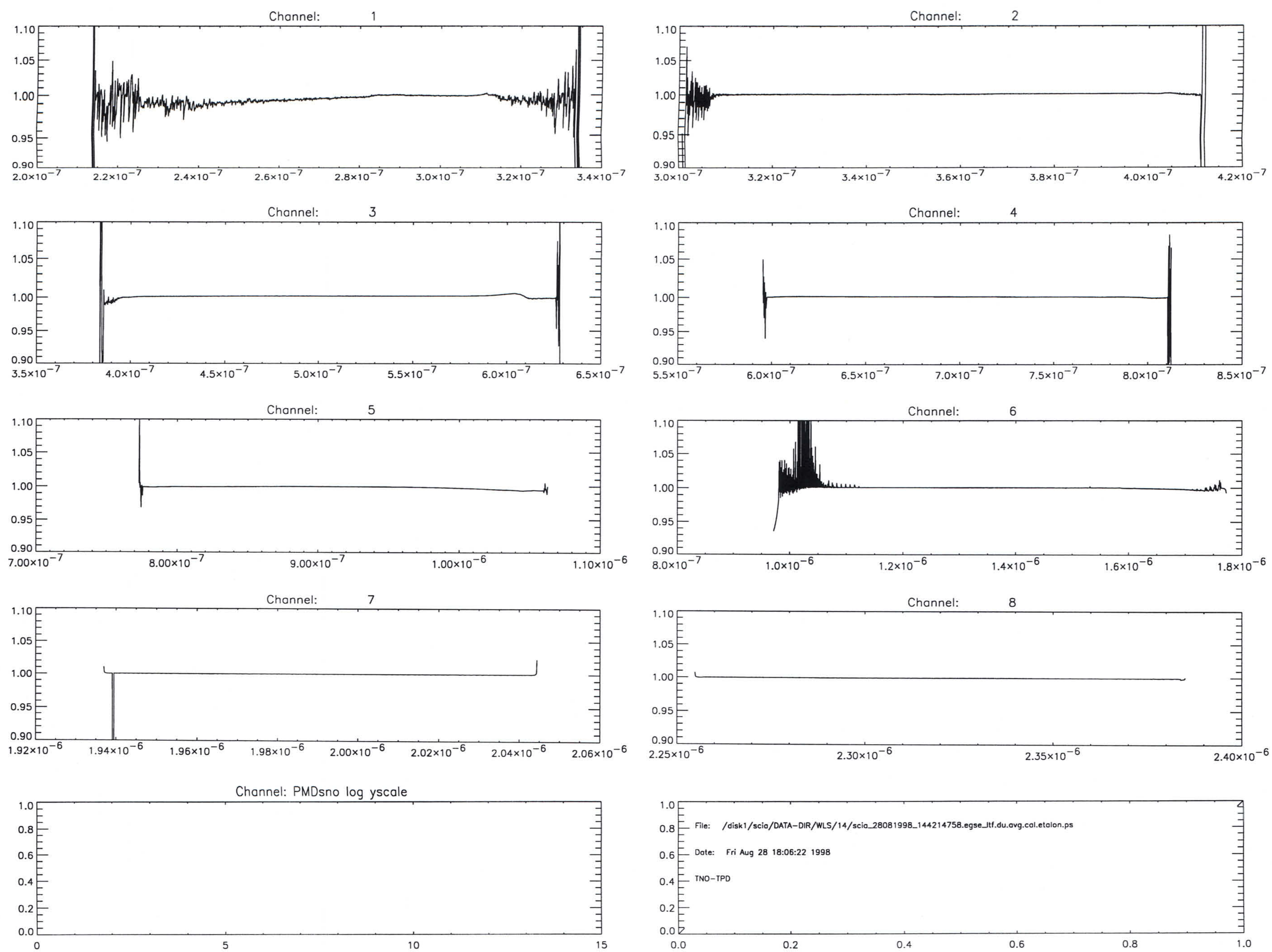

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/WLS/14/scia_28081998_144214758.egse_ltf.qu.rel_std.col.ps
Date: Fri Aug 28 17:47:34 1998
TNO-TPD



Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/WLS/14/scia_28081998_144214758.egse_ltf.qu.std.cal.ps
Date: Fri Aug 28 17:47:33 1998
TNO-TPD

```
time       = Fri Aug  28 17:47:43 1998
batch      = du
Start TOD = Fri 28-Aug-98 14:42:40
End   TOD = Fri 28-Aug-98 14:43:40
Processing= computation of average, standard dev. and rel.standard dev.
```

```
time       = Fri Aug  28 17:47:34 1998
batch      = qu
Start TOD = Fri 28-Aug-98 14:42:14
End   TOD = Fri 28-Aug-98 14:42:40
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: PMDsno log yscale
File: /disk1/scia/DATA-DIR/WLS/14/scia_28081998_144214758.egse_ltf.du.avg.cal.etalon.ps
Date: Fri Aug 28 18:06:22 1998
TNO-TPD

```
Version:  0.1
Input files:

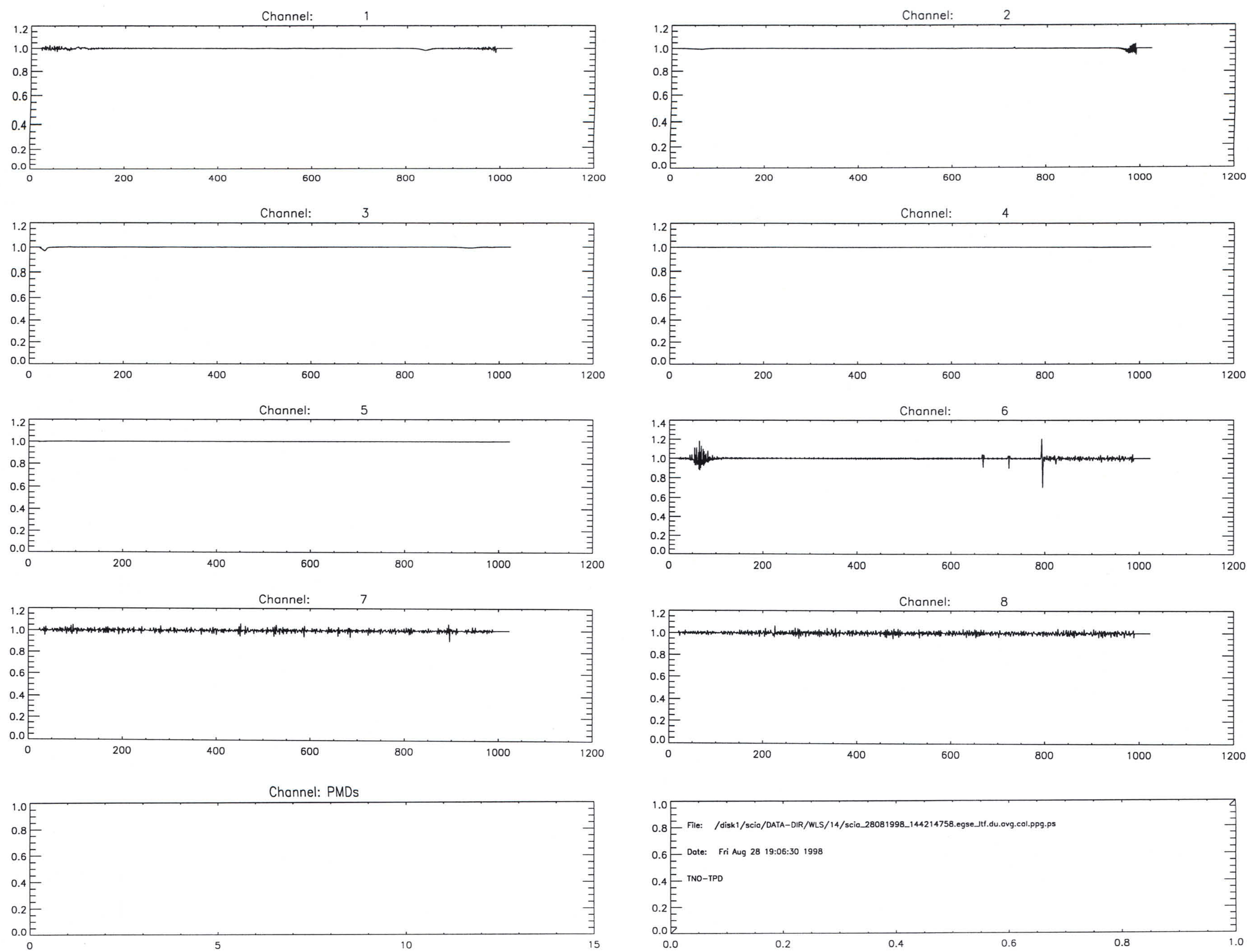
/disk1/scia/DATA-DIR/WLS/14/scia_28081998_144214758.egse_ltf.du.avg.cal and

/disk1/scia/DATA-DIR/WLS/14/scia_28081998_144214758.egse_ltf.qu.avg.cal
Action: Extraction of etalon structure
Processing time: Fri Aug 28 18:05:34 1998
Output file name:
/disk1/scia/DATA-DIR/WLS/14/scia_28081998_144214758.egse_ltf.du.avg.cal.etalon
```

```
Version:  0.1
Input files:

/disk1/scia/DATA-DIR/WLS/14/scia_28081998_144214758.egse_ltf.du.avg.cal and

/disk1/scia/DATA-DIR/WLS/14/scia_28081998_144214758.egse_ltf.qu.avg.cal
Action: Extraction of etalon structure
Processing time: Fri Aug 28 18:05:34 1998
Output file name:
/disk1/scia/DATA-DIR/WLS/14/scia_28081998_144214758.egse_ltf.du.avg.cal.etalon
```


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/WLS/14/scia_28081998_144214758.egse_ltf.du.avg.cal.ppg.ps
Date: Fri Aug 28 19:06:30 1998
TNO-TPD

```
Version:  0.1
Input files:

/disk1/scia/DATA-DIR/WLS/14/scia_28081998_144214758.egse_ltf.du.avg.cal and

/disk1/scia/DATA-DIR/WLS/14/scia_28081998_144214758.egse_ltf.qu.avg.cal
Action: Computation of Pixel to pixel gain
Processing time: Fri Aug 28 19:06:30 1998
Output file name:
/disk1/scia/DATA-DIR/WLS/14/scia_28081998_144214758.egse_ltf.du.avg.cal.ppg.ca
```

(1)

LOG SHEET SCHIAMACHY CALIBRATION

Date/Time	Description of action	Measurement directory
28/8/98	M te Plate, PJ Nijssen, L. v/d Spek	
*	XiII measurements were finished. 2 measurements: 1 diffuser /5; 2 diffuser. /6	
	These measurements were ... analysed and a ratio will be calculated. XiI will also be run in 2 different diffuser configurations: * 1 Suprasil 311 UV diffuser. * 2 Suprasil 311 UV diffuser.	
	First a testrun will be performed for XiI with 1 suprasil 311 UV diffuser.	
*	In the meantime Dornier wanted to perform a WLS measurement (internal). This data was also analysed. 0240_14.39.05_WLS_INT PPG & Etalon	
18.00 *	Testrun Xi_1 gave problems at the end of the measurement. NAPB closing procedure.	

LOG SHEET SCHIAMACHY CALIBRATION

Date/Time	Description of action	Measurement directory
	Testrun ~~scan~~ from ~~230~~ 240 nm – 410 nm in 10 steps of 17 nm.	
	Data could be retrieved eventually, but serious DAPB errors, Troubleshooting by Dornier (Eloy + Sander)	
	Data from test file was analysed with Solan. PETS are ok.	
	Formal run will be started with same settings when DAPB problems are solved.	
22.00	Whole EGSE was resetted.	
	DAPB error → DAPB ~~[illegible]~~ was out of control by EGSE. DAPB pretended it had no connection with EGSE. By hard resetting this was fixed (hopefully)	
21/00 UTC	XSI-I STARTED (formal)	XSI-UV-1/4

Formal Run of Measurement (Measurement ID) Xi - I

TesT

Request for Actual Status	X	(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	+45.000	deg
Elevation	-45.000	deg

Timeline for each Data Acquisition Period during Measurement

	1	2	3	4	5	6	7	8	9	10
State ID	17									
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	64	1						
2a	64	1						
3	0.5	64						
4	64	1						
5	64	1						
6	16	4						
7	2	32						
8	2	32						
State ID								

Stimuli Settings for Existing Blocks in Measurement

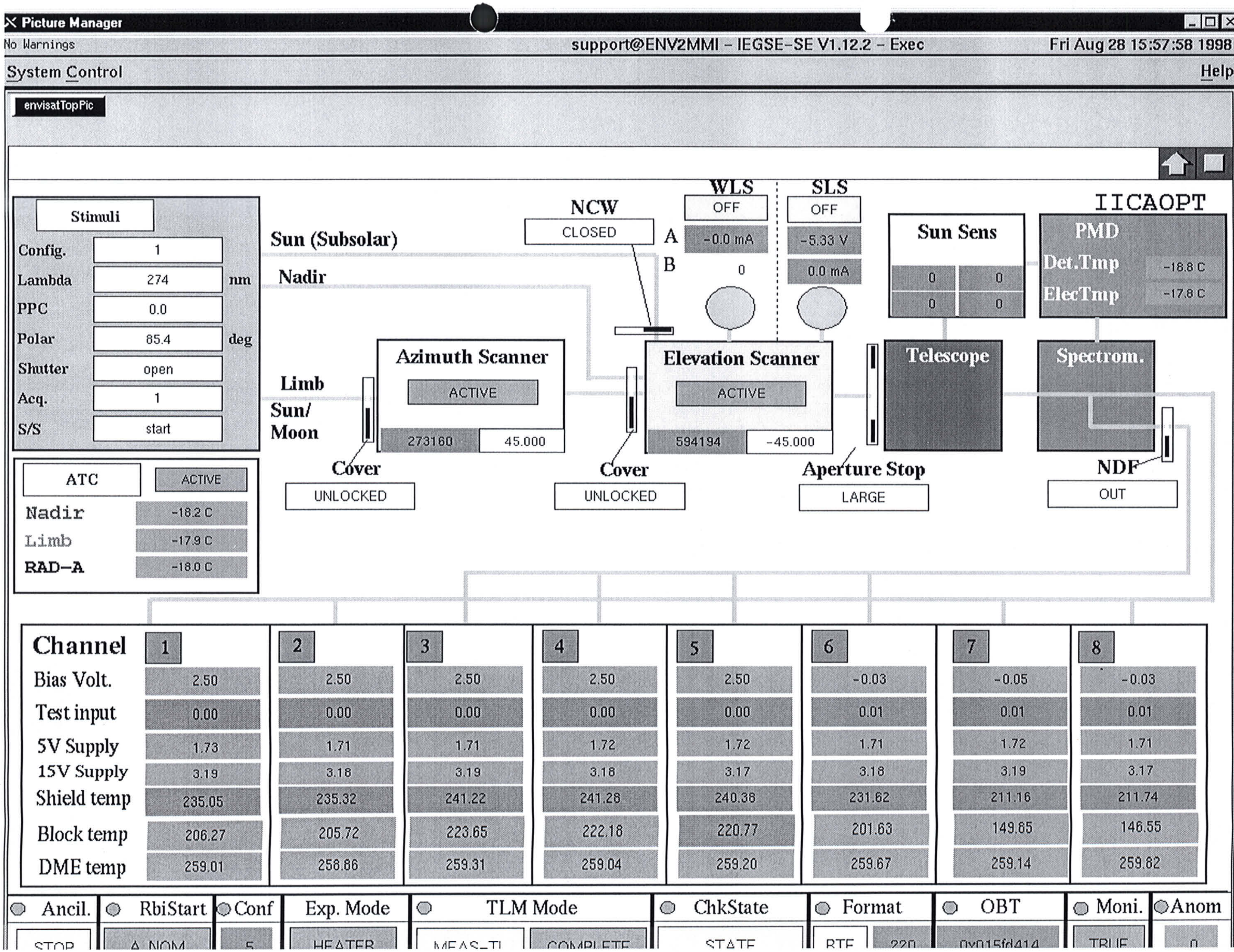
Block No	Stimuli Setup ID	PPC [deg]	Polarizer [deg]	Shutter open/close	Acquisition time [s]	Lambda [nm] Start	Stop	Step	Repetition factor	Message	OS Setup Time [s]
1	1	0	85.4	close	1	240	240	0	DU1 ↔	1	50
2	1	0	85.4	open	1	240	240	0	MP~ ↔	1	8
3	1	0	85.4	open	1	257	410	17	MP~ ↔	1	3
4	1	0	85.4	close	1	410	410	0	DU2 ↔	1	8

Measurement Data Description

Test Purpose	UID_10 Test
Remark	PET search
Data Directory	0240_15.46.00_XI_1

Signatures

	Date	Signature
Issued	28/8/98	[signature]
< Performed	28/8/98	[signature]


Picture Manager
No Warnings
support@ENV2MMI – IEGSE-SE V1.12.2 – Exec
Fri Aug 28 15:57:58 1998
System Control
Help
envisatTopPic
Stimuli
Config. 1
Lambda 274 nm
PPC 0.0
Polar 85.4 deg
Shutter open
Acq. 1
S/S start
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
-5.33 V
0.0 mA
Sun Sens
0 0
0 0
IICAOPT
PMD
Det.Tmp -18.8 C
ElecTmp -17.8 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 235.05 235.32 241.22 241.28 240.38 231.62 211.16 211.74
Block temp 206.27 205.72 223.65 222.18 220.77 201.63 149.85 146.55
DME temp 259.01 258.86 259.31 259.04 259.20 259.67 259.14 259.82
Ancil.
RbiStart
Conf
Exp. Mode
TLM Mode
ChkState
Format
OBT
Moni.
Anom

Formal Run of Measurement

(Measurement ID) XI_1

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	+45.000	deg
Elevation	-45.000	deg

Timeline for each Data Acquisition Period during Measurement

	1	2	3	4	5	6	7	8	9	10
State ID	17									
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	64	1						
2a	64	1						
3	0.5	64						
4	64	1						
5	64	1						
6	16	4						
7	2	32						
8	2	32						
State ID								

8kp 14.8

Stimuli Settings for Existing Blocks in Measurement

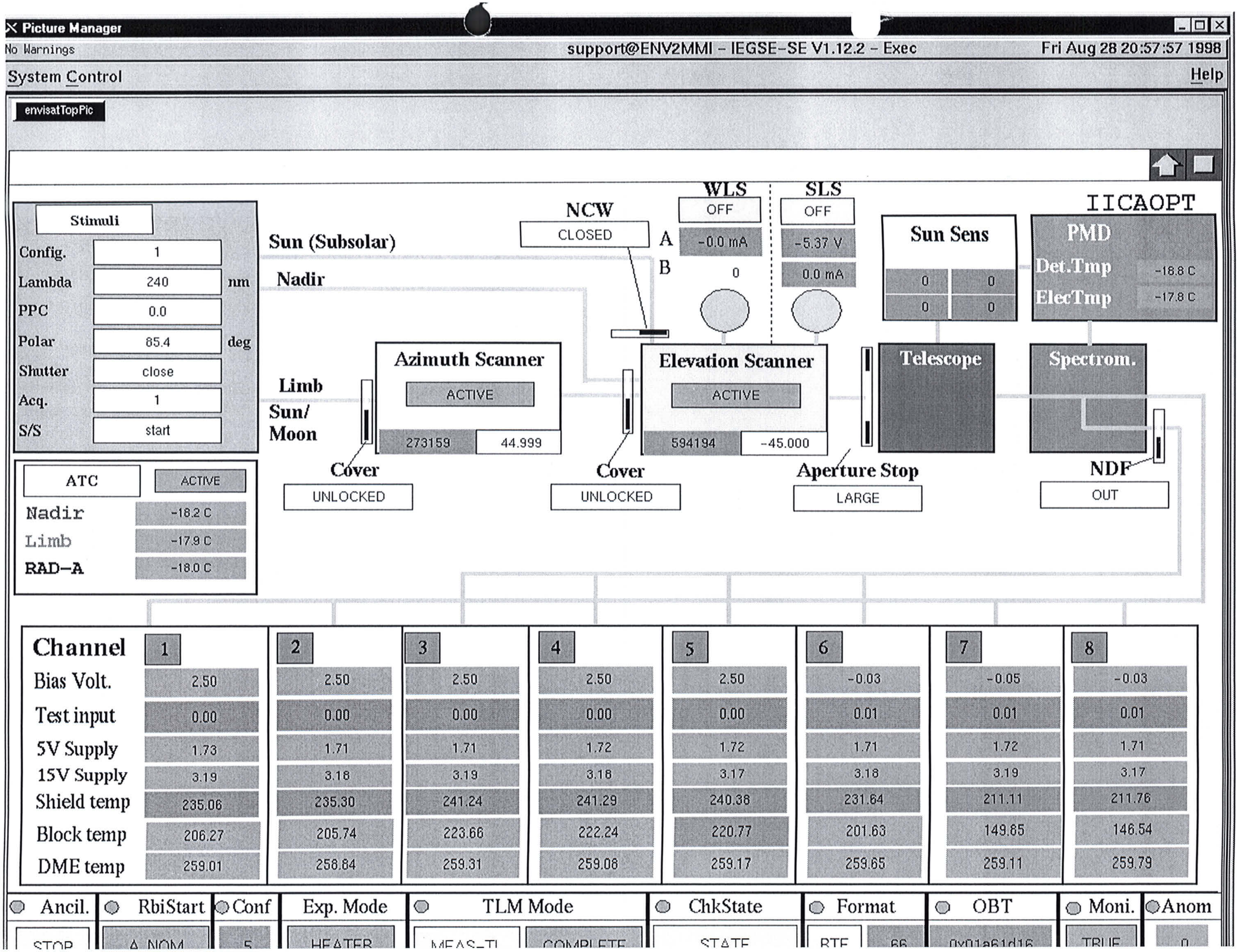
Block No	Stimuli Setup ID	PPC [deg]	Polarizer [deg]	Shutter open/close	Acquisition Time [s]	Lambda [nm] Start	Stop	Step	Repetition Factor	Message	OS Setup Time [s]
1	1	0	85.4	close	1	240	240	0	5	DU 1	50
2	1	0	85.4	open	1	240	240	0	1	MPn	8
3	1	0	85.4	open	1	242	410	2	1	MPn	3
4	1	0	85.4	close	1	410	410	0	5	DU 2	8

Measurement Data Description

Test Purpose	UID 10
Remark	Formal run
Data Directory	

Signatures

	Date	Signature
Issued	20/8/98	[signature]
< Performed		


Picture Manager
No Warnings
support@ENV2MMI – IEGSE-SE V1.12.2 – Exec
Fri Aug 28 20:57:57 1998
System Control
Help
envisatTopPic
Stimuli
Config. 1
Lambda 240 nm
PPC 0.0
Polar 85.4 deg
Shutter close
Acq. 1
S/S start
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
-5.37 V
0.0 mA
Sun Sens
0 0
0 0
IICAOPT
PMD
Det.Tmp -18.8 C
ElecTmp -17.8 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 235.06 235.30 241.24 241.29 240.38 231.64 211.11 211.76
Block temp 206.27 205.74 223.66 222.24 220.77 201.63 149.85 146.54
DME temp 259.01 258.84 259.31 259.08 259.17 259.65 259.11 259.79
Ancil.
RbiStart
Conf
Exp. Mode
TLM Mode
ChkState
Format
OBT
Moni.
Anom

LOG SHEET SCHIAMACHY CALIBRATION

Date/Time	Description of action	Measurement directory
28/8/98	Dornier wanted to perform an internal SLS for testing. This measurement is analyzed. See following pages for results.	

STEP	ACTION	RESULT	MARKER
Intro	Your name: Date:	BART BAKKEREN	
	What's the name of the (main) data input files generated by the EGSE? (*.dat)	Scia_28081998_195144665.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?	16	Note: In window DATA-DIR (B)
	New directory: mkdir <B+1> ls -l What's now the highest number in directory?	17	(C)
	<C> should be <B> + 1	Y / N	
	directory name is:	~/DATA-DIR/SPECCAL/<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)		Note: In window DATA-DIR; ***don't forget the dot !!!;*** *May take more than 15 mins.*
	ls -l *.egse_ltf What's the name of the egse_ltf file	scia_28081998_195144665.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:	145998	should be approx 150kb
	SLS light file:		

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). Name of backup CDs		See analysis sheet BackUp

---

Sign:	Name	BART
	Date and time	28/8/98
	Signature	Bart

Formal Run of Measurement

(Measurement ID) SLS_INT

TEST for DAPB

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

Scanner Positions

Azimuth		deg
Elevation		deg

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								

Stimuli Settings for Existing Blocks in Measurement

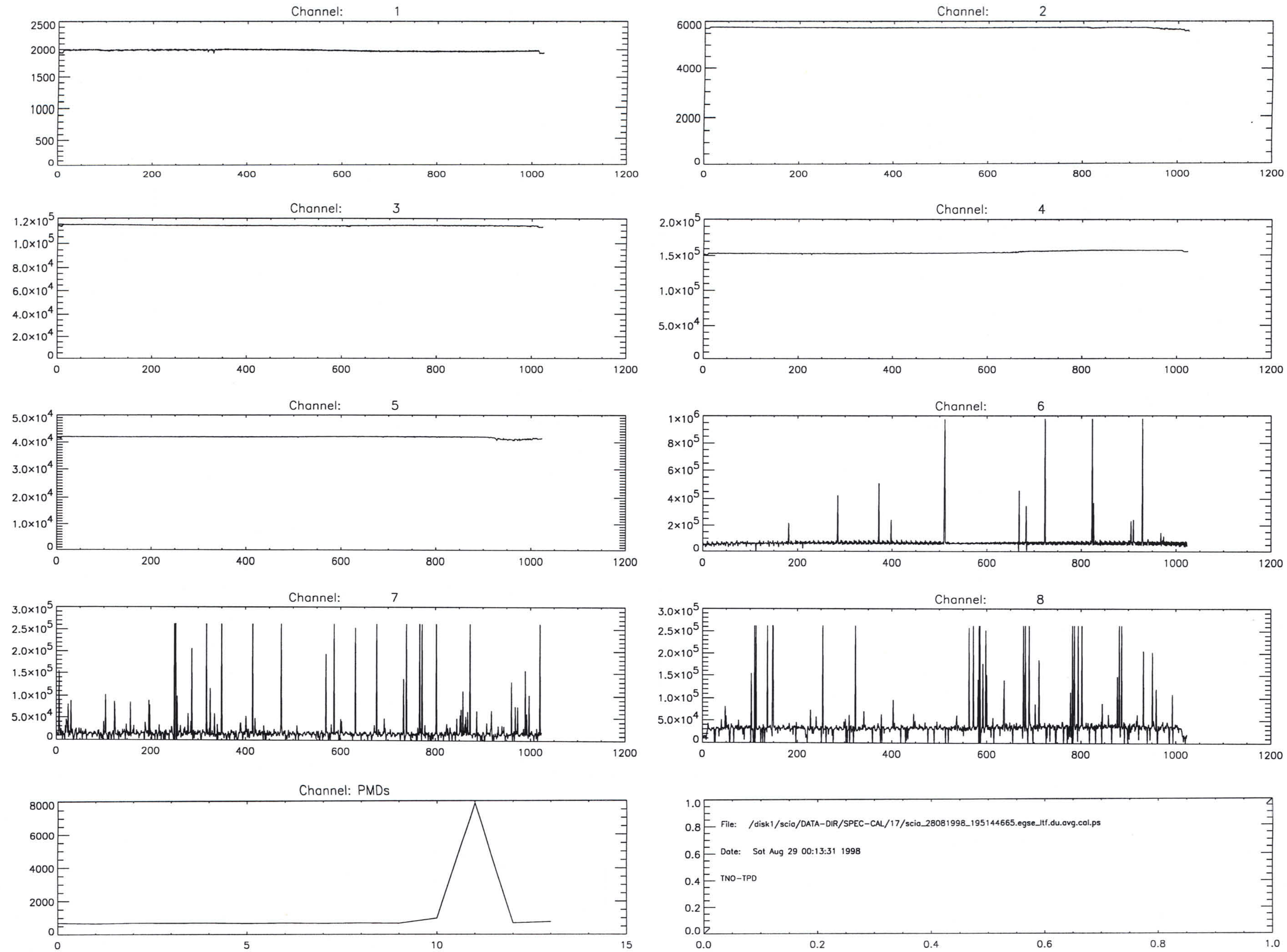
Block No	Stimuli Setup ID	PPC [deg]	Polarizer [deg]	Shutter open/close	Acquisition Time [s]	Lambda [nm] Start	Stop	Step	Repetition Factor	Message	OS Setup Time [s]

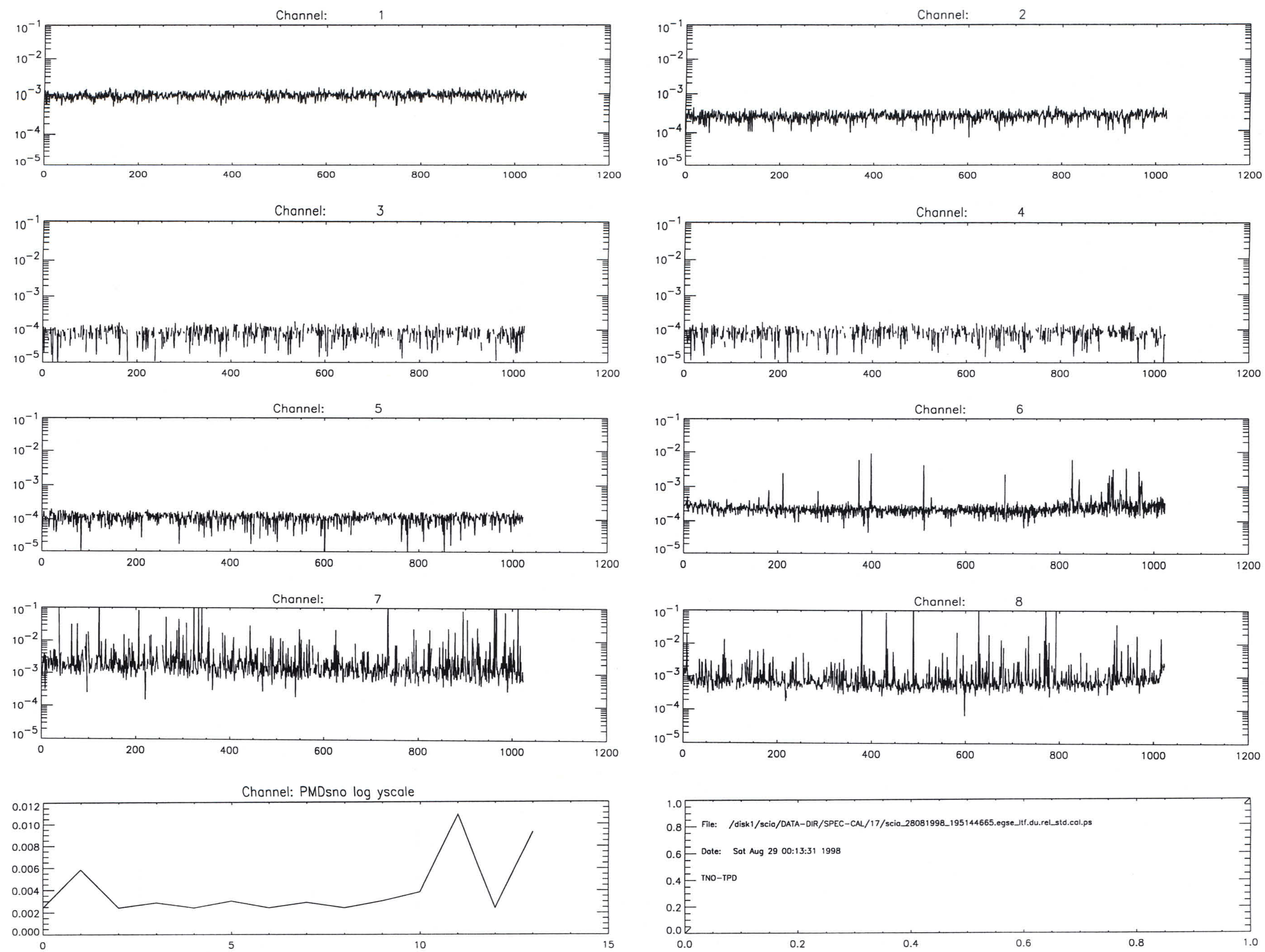
Measurement Data Description

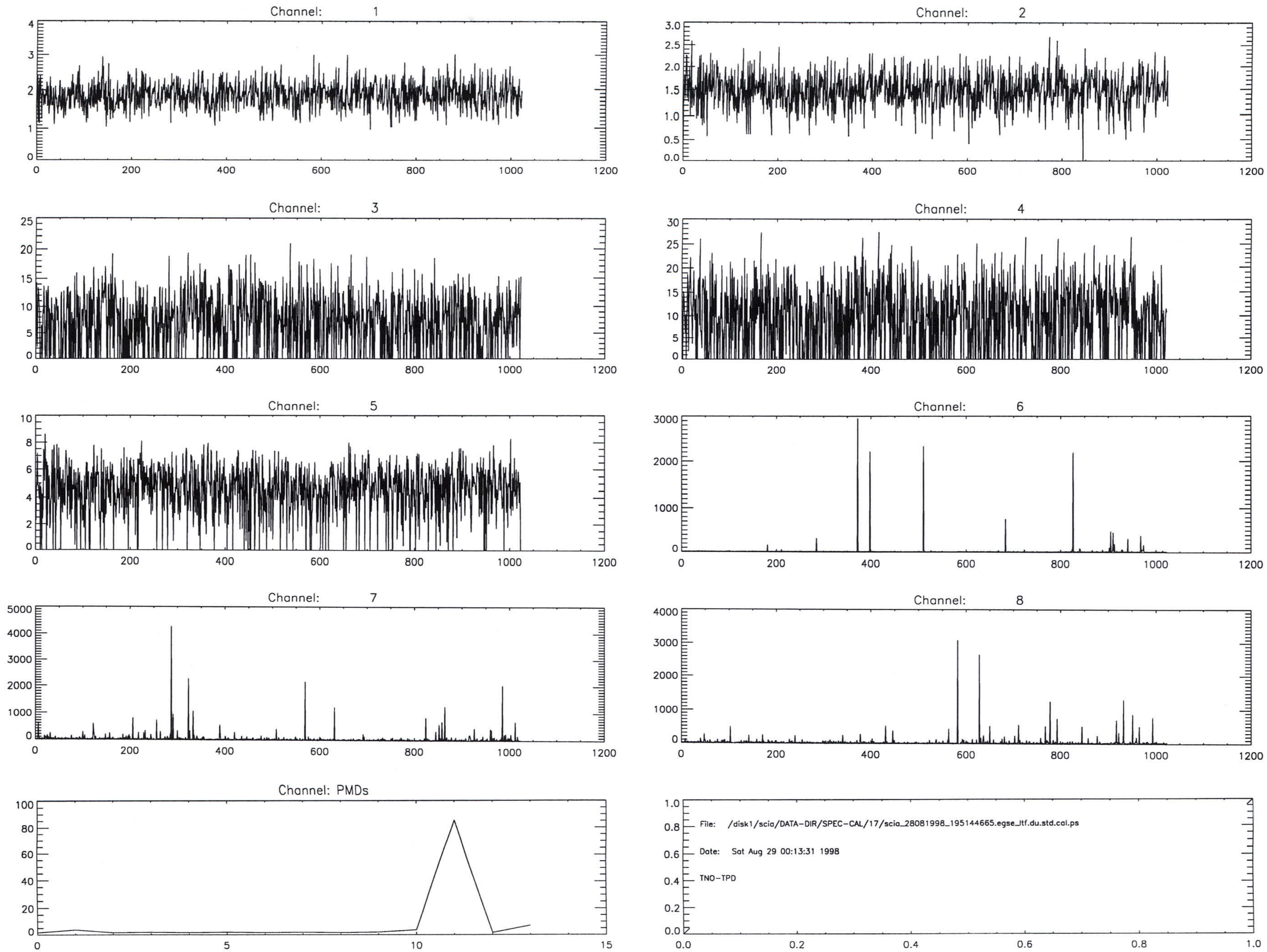
Test Purpose	Testing DAPB
Remark	
Data Directory	0240_19.48.54_SLS.INT

Signatures

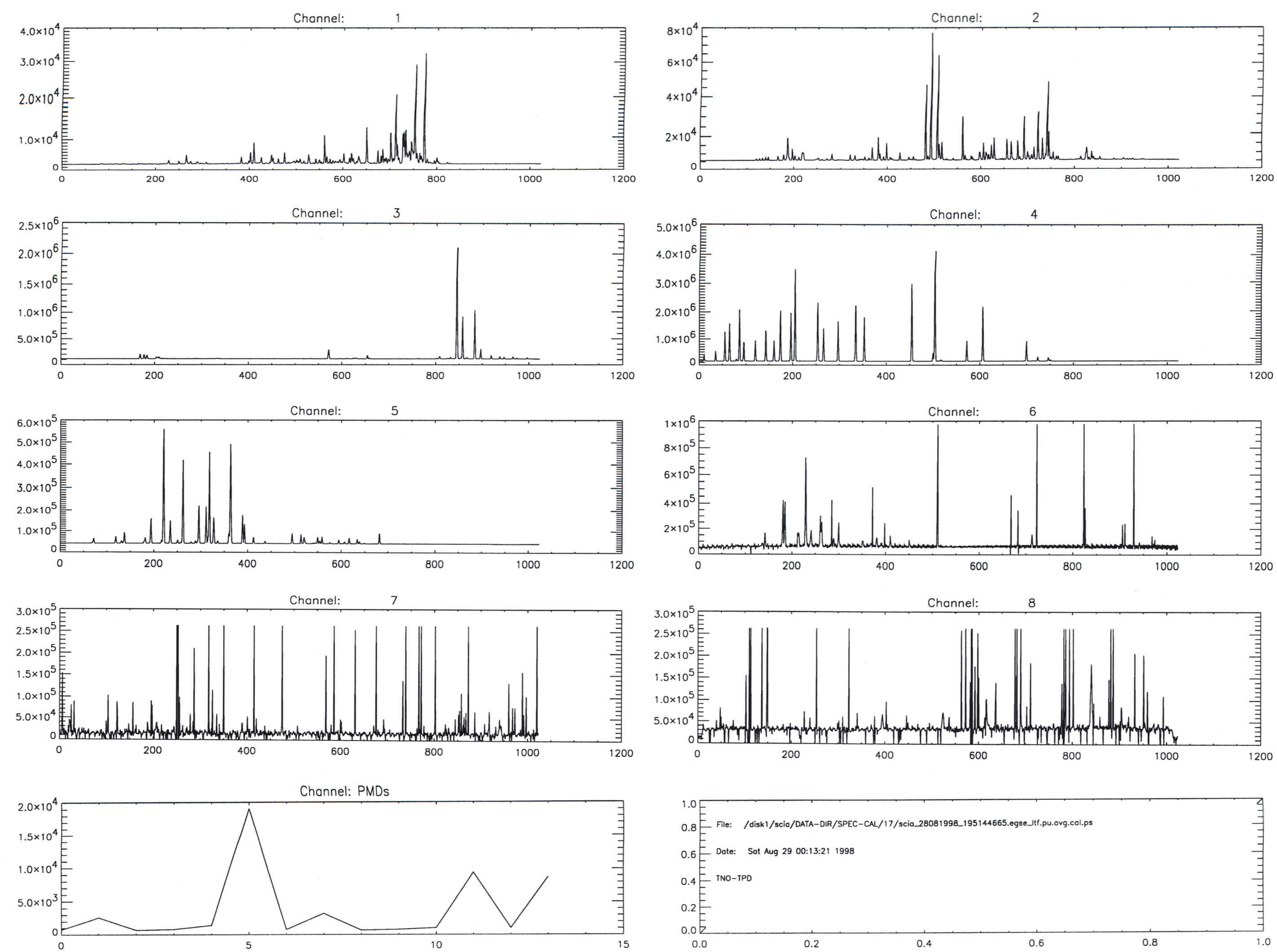
	Date	Signature
Issued		
< Performed	28/8/98	[illegible]

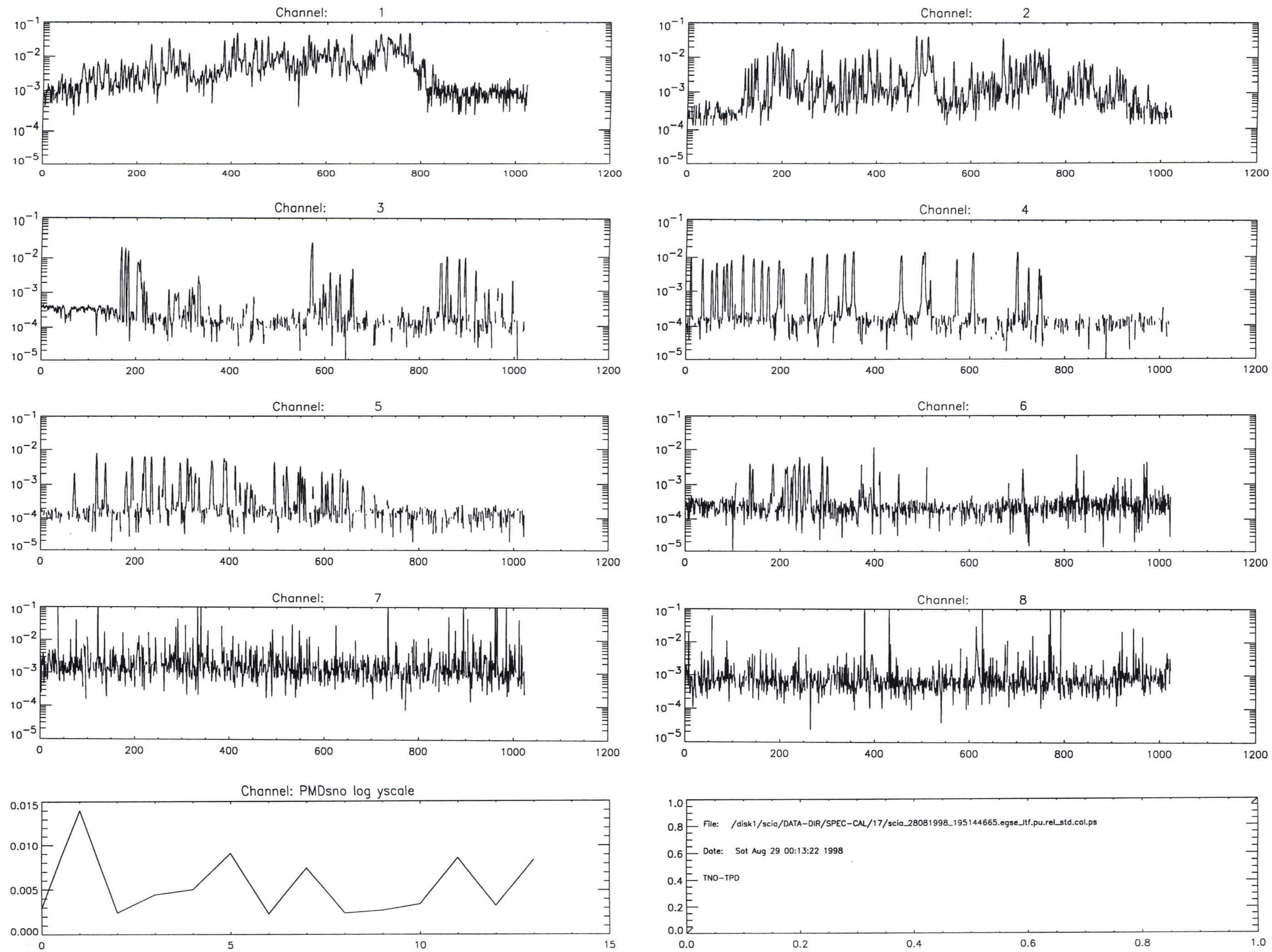

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/SPEC-CAL/17/scia_28081998_195144665.egse_ltf.du.avg.cal.ps
Date: Sat Aug 29 00:13:31 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/SPEC-CAL/17/scia_28081998_195144665.egse_itf.du.rel_std.cal.ps
Date: Sat Aug 29 00:13:31 1998
TNO-TPD

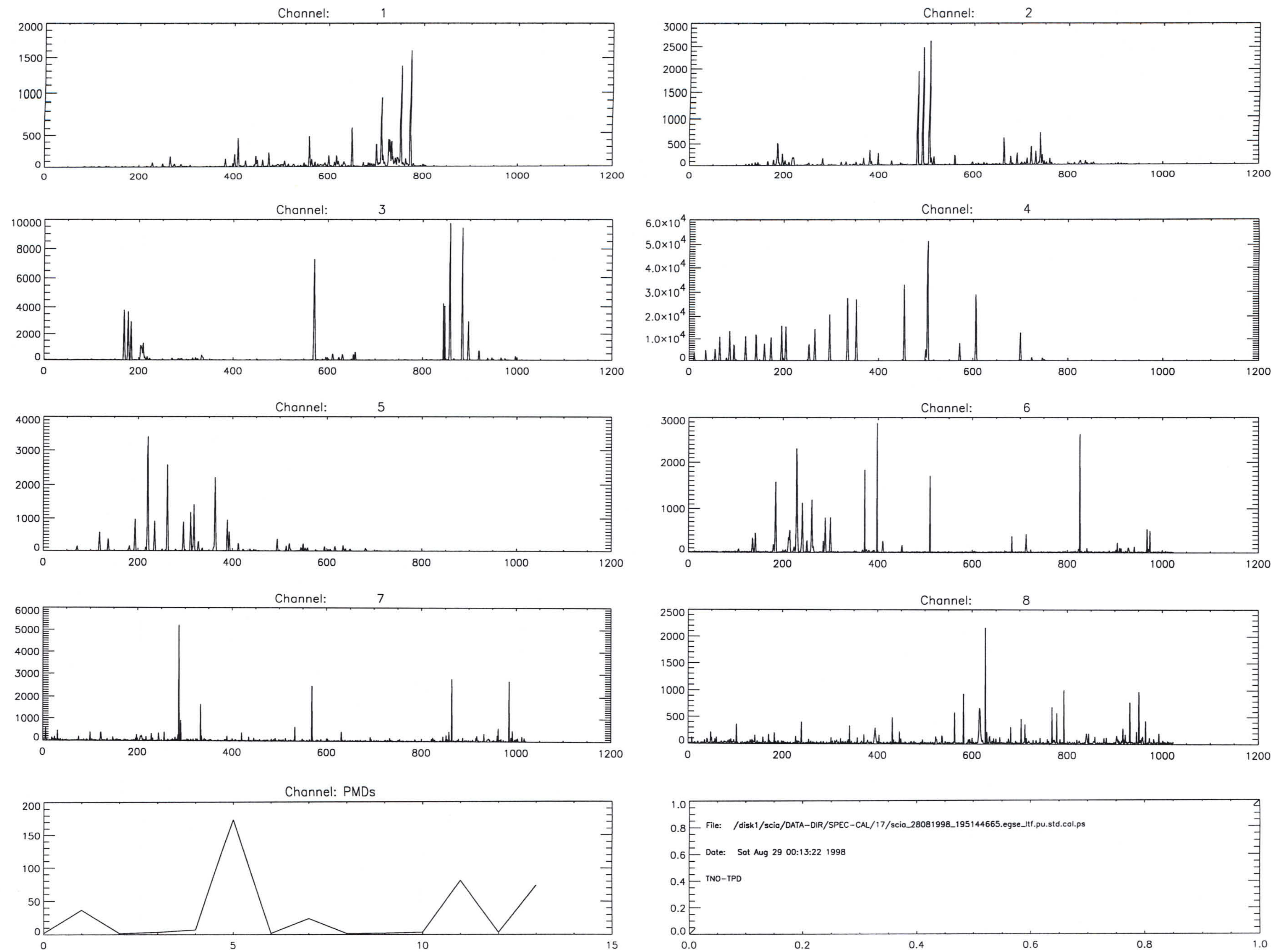


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/SPEC-CAL/17/scia_28081998_195144665.egse_ltf.du.std.cal.ps
Date: Sat Aug 29 00:13:31 1998
TNO-TPD


Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/SPEC-CAL/17/scia_28081998_195144665.egse_ltf.pu.avg.cal.ps
Date: Sat Aug 29 00:13:21 1998
TNO-TPD

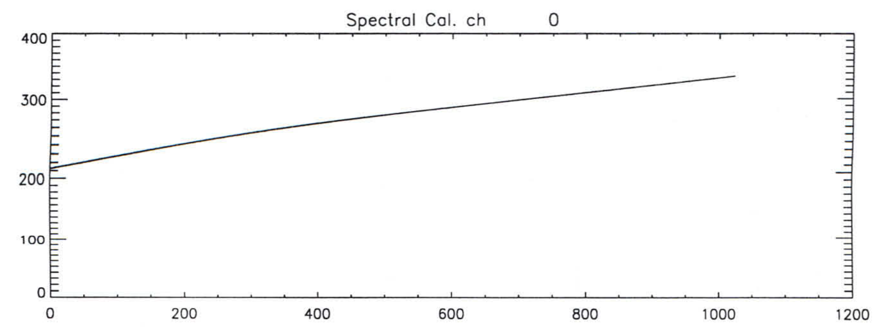


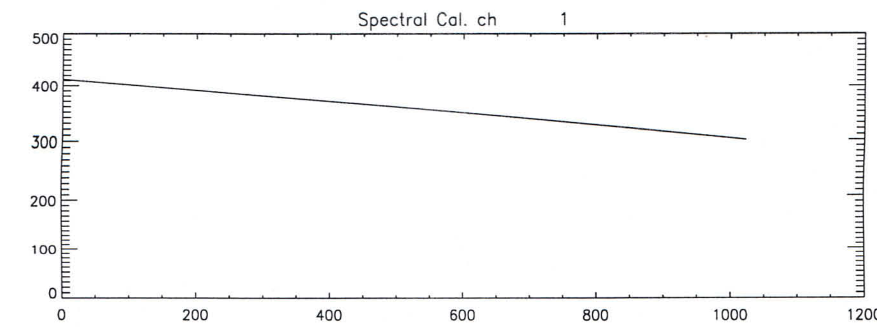
Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDsno log yscale
File: /disk1/scia/DATA-DIR/SPEC-CAL/17/scia_28081998_195144665.egse_ltf.pu.rel_std.cal.ps
Date: Sat Aug 29 00:13:22 1998
TNO-TPD

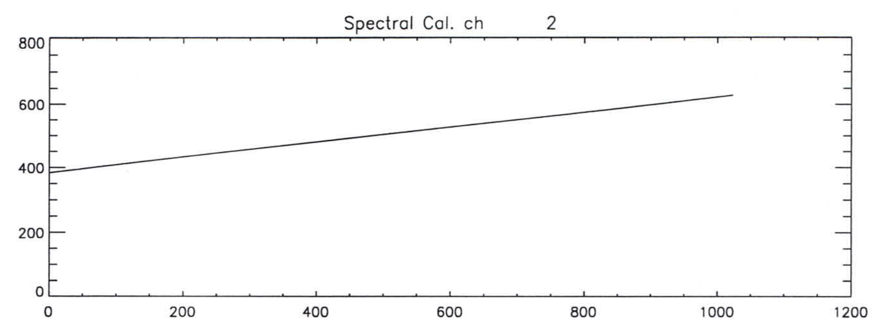

Channel: 1
Channel: 2
Channel: 3
Channel: 4
Channel: 5
Channel: 6
Channel: 7
Channel: 8
Channel: PMDs
File: /disk1/scia/DATA-DIR/SPEC-CAL/17/scia_28081998_195144665.egse_ltf.pu.std.cal.ps
Date: Sat Aug 29 00:13:22 1998
TNO-TPD

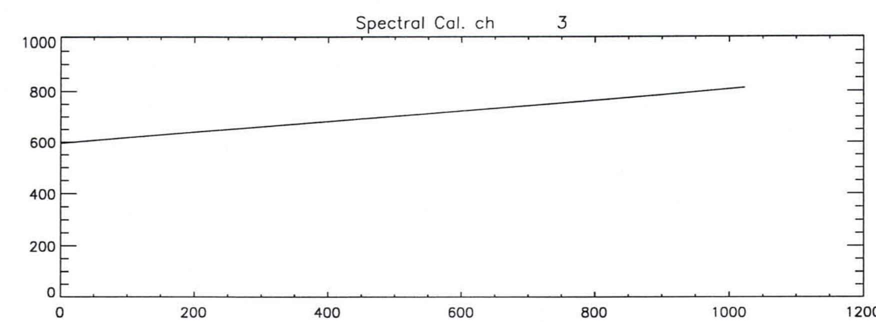
```
time        = Sat Aug 29 00:13:32 1998
batch       = du
Start TOD = Fri 28-Aug-98 19:52:09
End   TOD = Fri 28-Aug-98 19:53:09
Processing= computation of average, standard dev. and rel.standard dev.
```

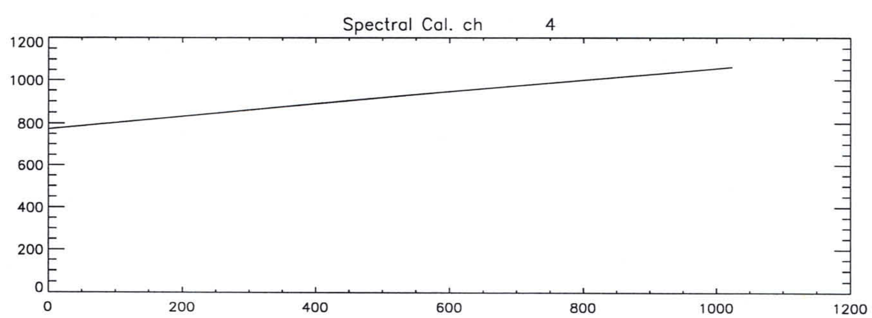
```
time        = Sat Aug 29 00:13:22 1998
batch       = pu
Start TOD = Fri 28-Aug-98 19:51:44
End   TOD = Fri 28-Aug-98 19:52:09
Processing= computation of average, standard dev. and rel.standard dev.
```

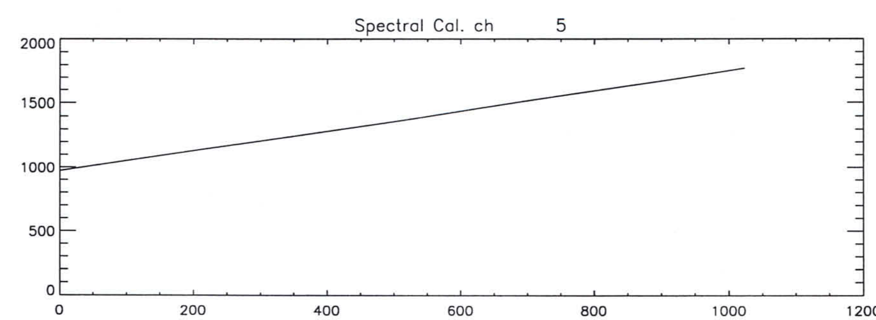

Spectral Cal. ch 0

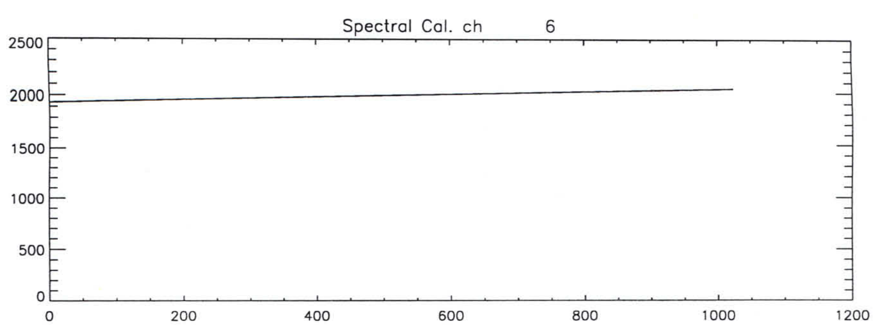

Spectral Cal. ch 1

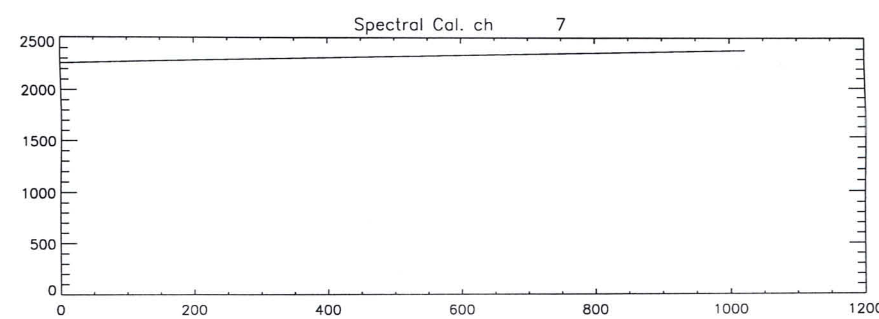

Spectral Cal. ch 2


Spectral Cal. ch 3


Spectral Cal. ch 4


Spectral Cal. ch 5


Spectral Cal. ch 6


Spectral Cal. ch 7

```
Version:  0.1
Input files:

/disk1/scia/DATA-DIR/SPEC-CAL/17/scia_28081998_195144665.egse_ltf.du.avg.cal
 and

/disk1/scia/DATA-DIR/SPEC-CAL/17/scia_28081998_195144665.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/17/scia_28081998_195144665.
Processing time: Sat Aug 29 00:26:30 1998
Output file name:
/disk1/scia/DATA-DIR/SPEC-CAL/17/scia_28081998_195144665.egse_ltf.du.avg.cal.w
```