

1. SCIAMACHY Level 1B source packet monitoring report

[1.1. General Info](#)

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1.1 General Info

This report contains results of the analysis on source packets from SCIAMACHY level 1 data (The SCI_NL__1P product).

1.1.1 Report summary

The table below shows general characteristics of the data that are included into this report.

Item	Value
Report version	1.1 (07-01-2010)
Time of report generation	02MAR2011 06:55:36
Data source version	SCIA/7.04-U
Processing scope for products	19FEB2011 00:00:00 to 20FEB2011 00:00:00
Start time of first product within scope	18FEB2011 22:34:33
Stop time of last product within scope	20FEB2011 00:47:48
Total number of level 1 products	16
Number of level 1 products with errors	0
SCIAL1C executable used in processing	scial1c-2.1.73-i686-pc-linux-gnu-gcc-3.3.6
SCIAL1C parameters used in processing	-allcal -type all -cat 1,2,8,10,11,16,19,23 -nadircluster 8,9,15,24,55 -limbcluster 9,15

1.1.2 Source packet summary

The table below shows which source packets have been included into the report.

Item	Mode	State	Cluster	Height	First start time	Last start time
0	NADIR	07	08	N/A	19FEB2011 00:47:15.300	19FEB2011 22:39:37.630
1	NADIR	07	09	N/A	19FEB2011 00:47:15.300	19FEB2011 22:39:37.630
2	NADIR	07	15	N/A	19FEB2011 00:47:15.300	19FEB2011 22:39:37.630
3	NADIR	07	24	N/A	19FEB2011 00:47:15.300	19FEB2011 22:39:37.630
4	NADIR	07	55	N/A	19FEB2011 00:47:15.300	19FEB2011 22:39:37.630
5	LIMB	32	09	~19 km	N/A	N/A
6	LIMB	32	09	~22 km	N/A	N/A
7	LIMB	32	09	~25 km	N/A	N/A
8	LIMB	32	15	~22 km	N/A	N/A
9	LIMB	32	15	~25 km	N/A	N/A
10	LIMB	32	15	~35 km	N/A	N/A

1.1.3 Summary per product

The following table shows a summary for each product used in this report.

Products are linked to a corresponding server directory for view/download. Note: Link access may be restricted by security settings of your internet browser or firewall.

#	Product name	Start time	Stop time	ProdErr	#nadir	#limb	#occ	#mon	#noprocc	#cmpl_drk	#incmpl_drk	Decont
0	SCI_NLC_1CUDPA20110218_222056_000059973099_00346_46912_4737.N1	18FEB2011 22:34:33	18FEB2011 23:45:02	0	36	30	0	0	1	0	0	
1	SCI_NLC_1CUDPA20110219_000057_000060213099_00347_46913_4739.N1	19FEB2011 00:24:26	19FEB2011 01:24:39	0	34	0	0	0	1	0	0	
2	SCI_NLC_1CUDPA20110219_014122_000059973099_00348_46914_4742.N1	19FEB2011 02:03:44	19FEB2011 03:05:05	0	35	0	0	0	1	0	0	
3	SCI_NLC_1CUDPA20110219_032124_000060223099_00349_46915_4743.N1	19FEB2011 03:44:53	19FEB2011 04:45:06	0	34	0	0	0	1	0	0	
4	SCI_NLC_1CUDPA20110219_050149_000059973099_00350_46916_4745.N1	19FEB2011 05:24:11	19FEB2011 06:25:32	0	35	0	0	0	1	0	0	
5	SCI_NLC_1CUDPA20110219_064151_000060213099_00351_46917_4747.N1	19FEB2011 07:05:20	19FEB2011 08:05:33	0	34	0	0	0	1	0	0	

6	SCI_NLC_1CUDPA20110219_082217_000059973099_00352_46918_4750.N1	19FEB2011 08:44:38	19FEB2011 09:45:59	0	35	0	0	0	1	0	0	
7	SCI_NLC_1CUDPA20110219_100218_000060213099_00353_46919_4751.N1	19FEB2011 10:25:47	19FEB2011 11:26:00	0	34	0	0	0	1	0	0	
8	SCI_NLC_1CUDPA20110219_114243_000059973099_00354_46920_4754.N1	19FEB2011 12:05:05	19FEB2011 13:06:26	0	35	0	0	0	1	0	0	
9	SCI_NLC_1CUDPA20110219_132245_000060213099_00355_46921_4758.N1	19FEB2011 13:46:14	19FEB2011 14:46:27	0	34	0	0	0	1	0	0	
10	SCI_NLC_1CUDPA20110219_150310_000059973099_00356_46922_4759.N1	19FEB2011 15:25:32	19FEB2011 16:26:53	0	35	0	0	0	1	0	0	
11	SCI_NLC_1CUDPA20110219_164312_000060223099_00357_46923_4762.N1	19FEB2011 17:06:41	19FEB2011 18:06:54	0	34	0	0	0	1	0	0	
12	SCI_NLC_1CUDPA20110219_182337_000059973099_00358_46924_4763.N1	19FEB2011 18:42:53	19FEB2011 19:47:42	0	35	0	0	1	1	0	0	
13	SCI_NLC_1CUDPA20110219_200339_000060213099_00359_46925_4766.N1	19FEB2011 20:23:06	19FEB2011 21:27:43	0	34	0	0	1	1	0	0	
14	SCI_NLC_1CUDPA20110219_214404_000059973099_00360_46926_4778.N1	19FEB2011 22:06:26	19FEB2011 23:07:47	0	35	0	0	0	1	0	0	
15	SCI_NLC_1CUDPA20110219_232406_000060213099_00361_46927_4769.N1	19FEB2011 23:47:36	20FEB2011 00:47:48	0	34	0	0	0	1	0	0	

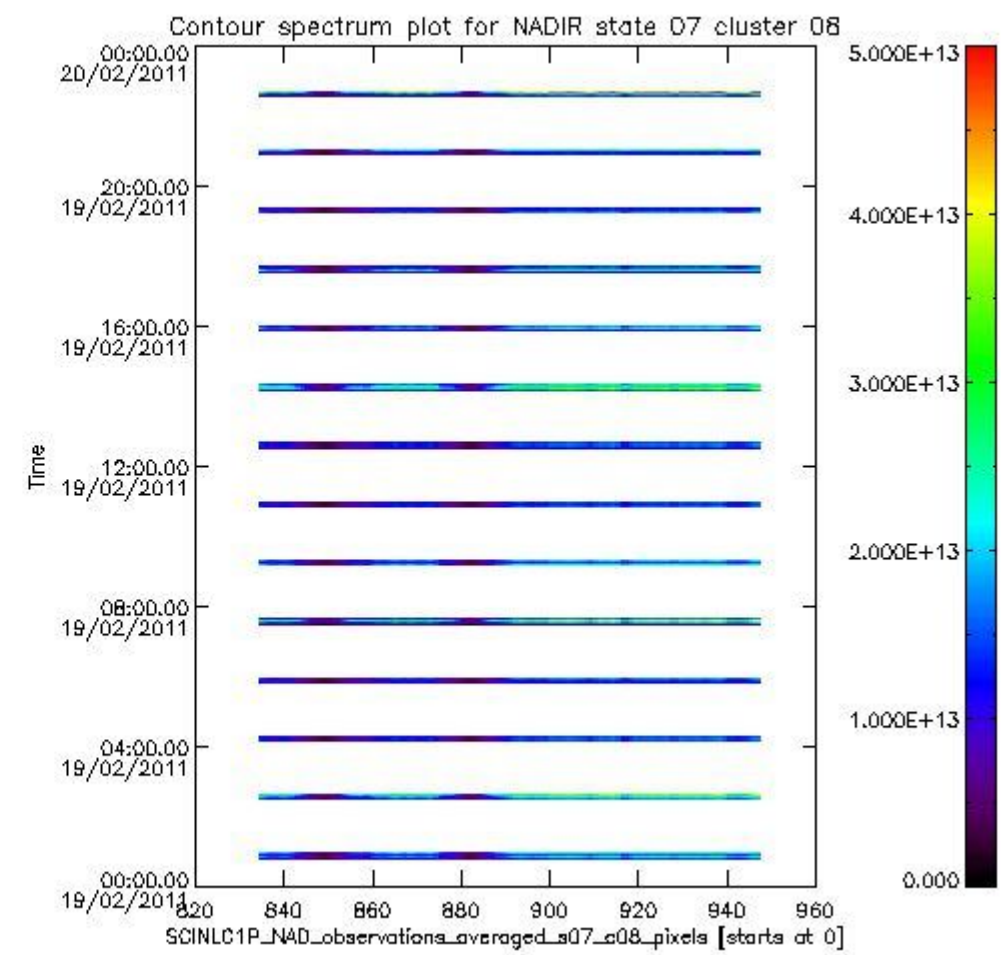
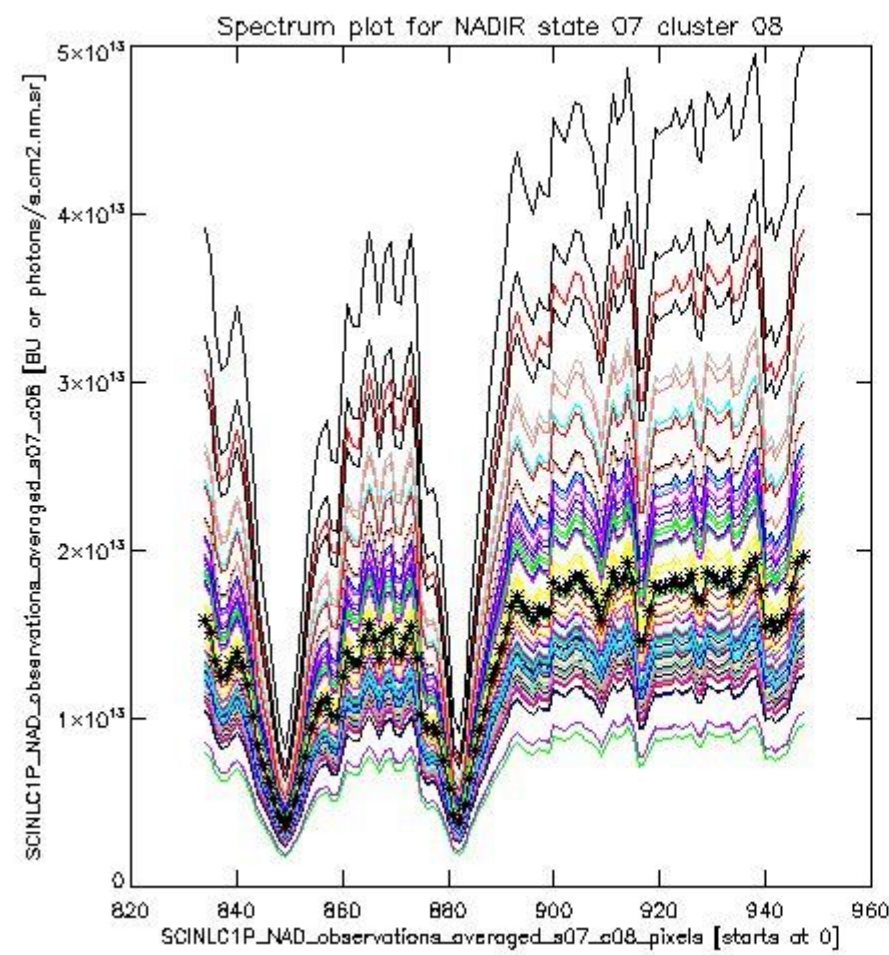
1.2 Source packet monitoring

This section shows figures for each of the monitored source packet types listed in the Source Packet Summary section. For each mode-state-cluster(-height) combination the following plots are shown:

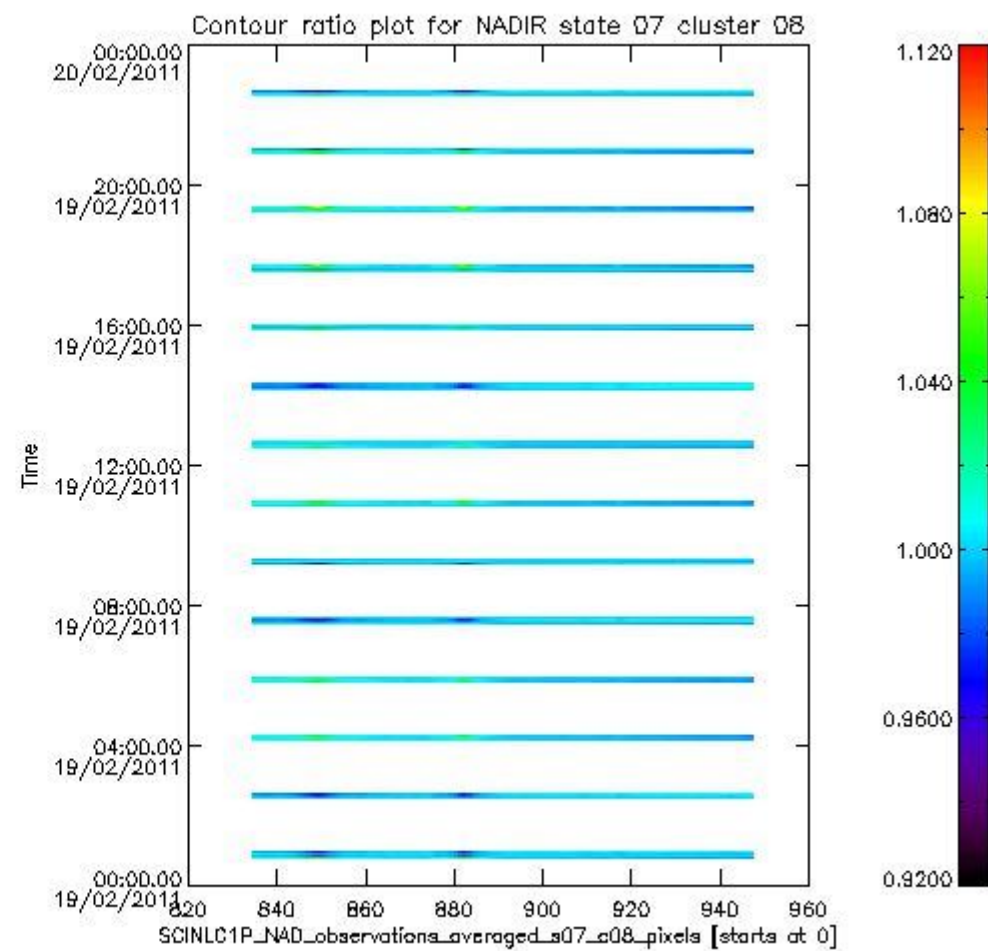
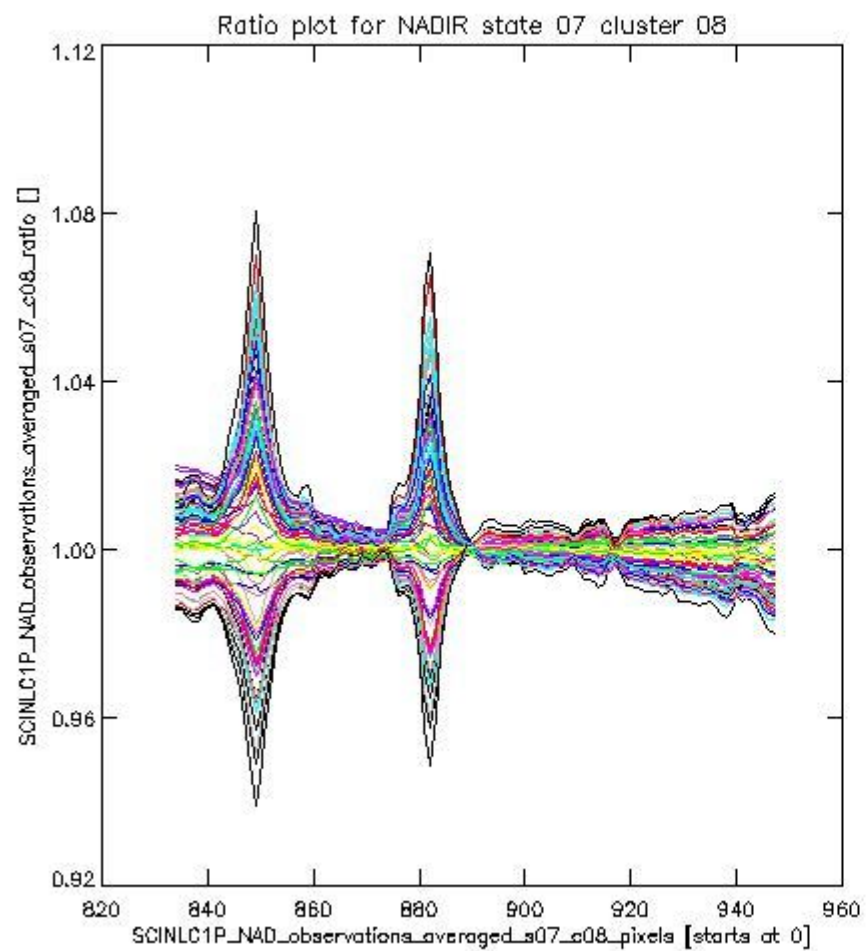
- A plot that shows all calibrated averaged spectra vs. pixel number as 2D-profiles. Each line is an average spectrum for a single state occurrence. For Limb modes, the average is performed on spectra recorded at a specific height. The reference spectrum that is used for comparison is also shown as a black line with * markers.
- A plot that shows all calibrated averaged spectra vs. pixel number and time using a coloured contour plot. The colours indicate the intensity.
- A plot that shows ratios of all calibrated averaged spectra and the reference spectrum vs. pixel number. Each line is the ratio of a calibrated averaged spectrum and the reference spectrum, where both spectra have been intensity corrected (the spectrum has been divided by the average pixel intensity) prior to division.
- A plot that shows ratios of all calibrated averaged spectra and the reference spectrum vs. pixel number and time using a coloured contour plot.

1.2.1 NADIR state 07 cluster 08 The data for the analysis of NADIR state 07 cluster 08 have the following characteristics:

Item	Value
Start time of first sample	19FEB2011 00:47:15.300
Start time of last sample	19FEB2011 22:39:37.630
Reference period start time	20JAN2011 00:49:10.786
Reference period stop time	18FEB2011 23:15:56.022
Channel number	2
First pixel number (starts at 0)	834
Last pixel number (starts at 0)	947



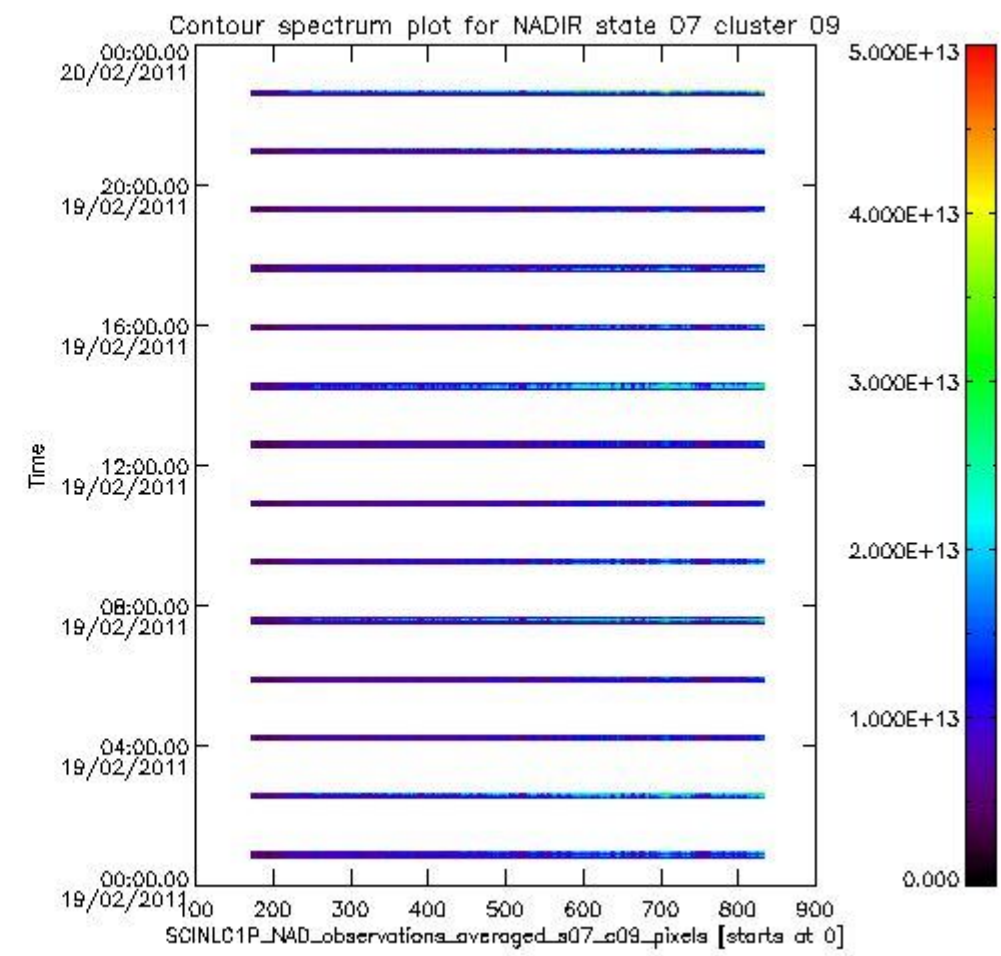
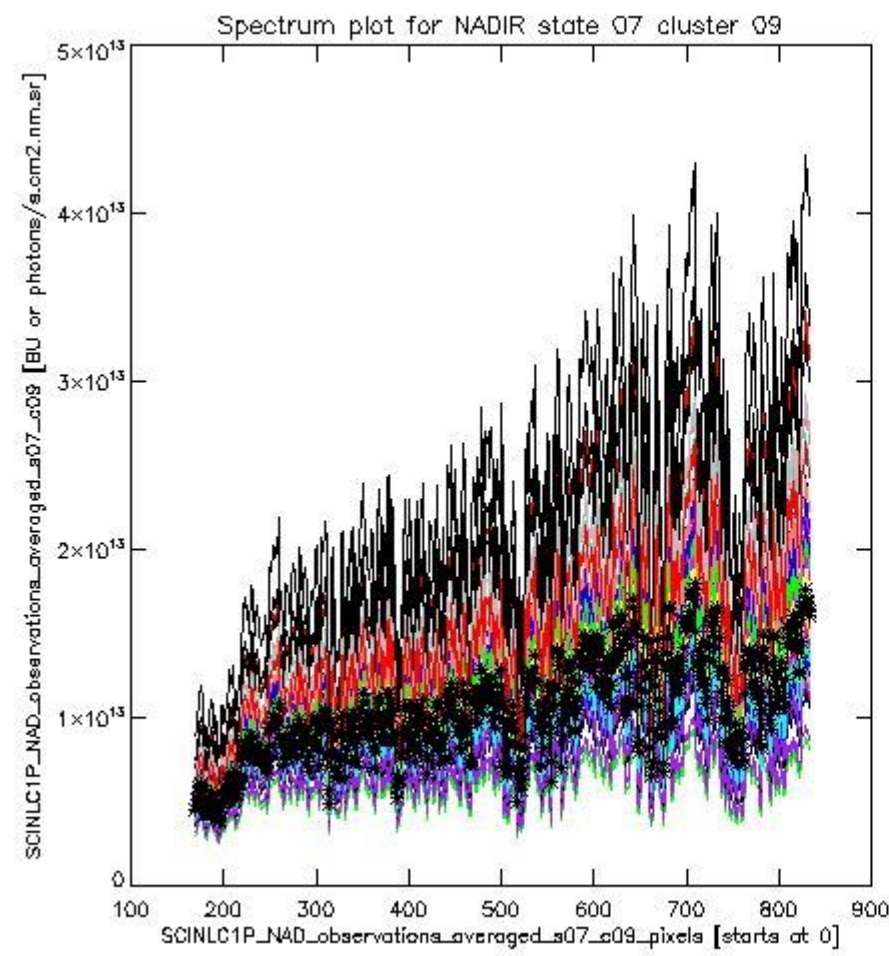
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110219_0.PNG



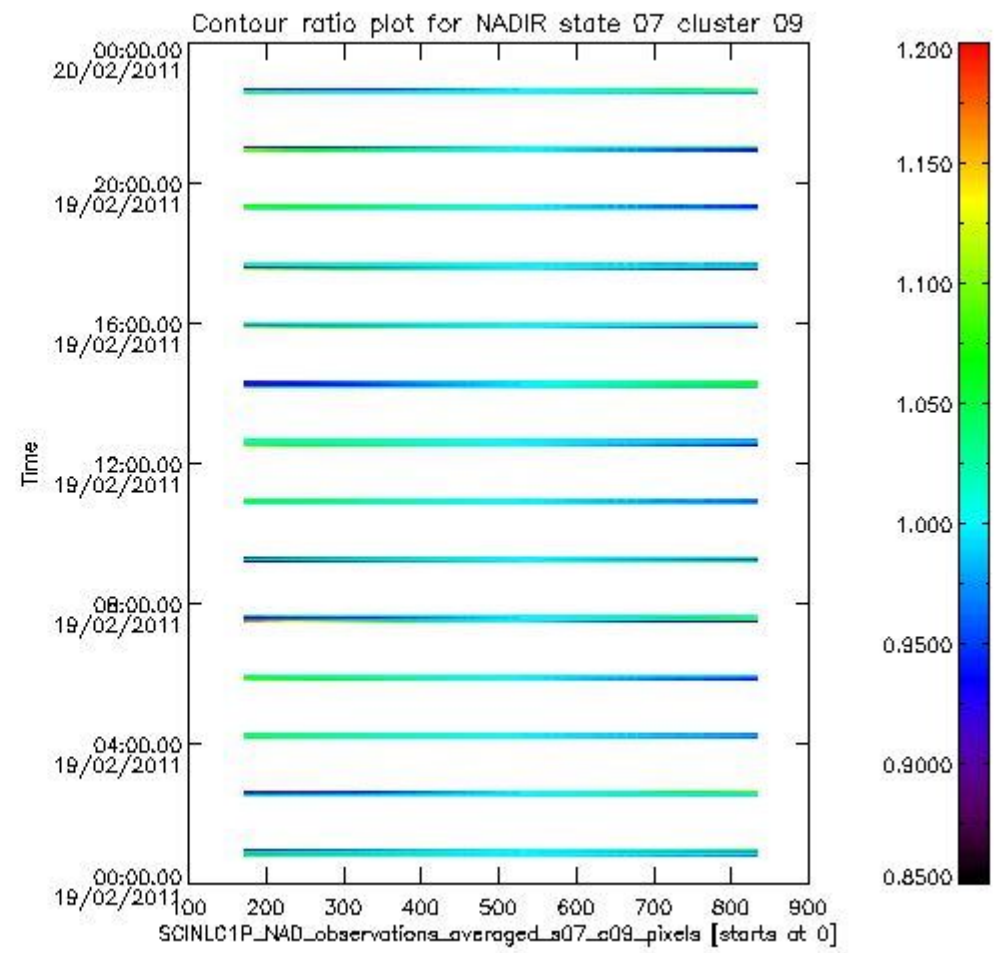
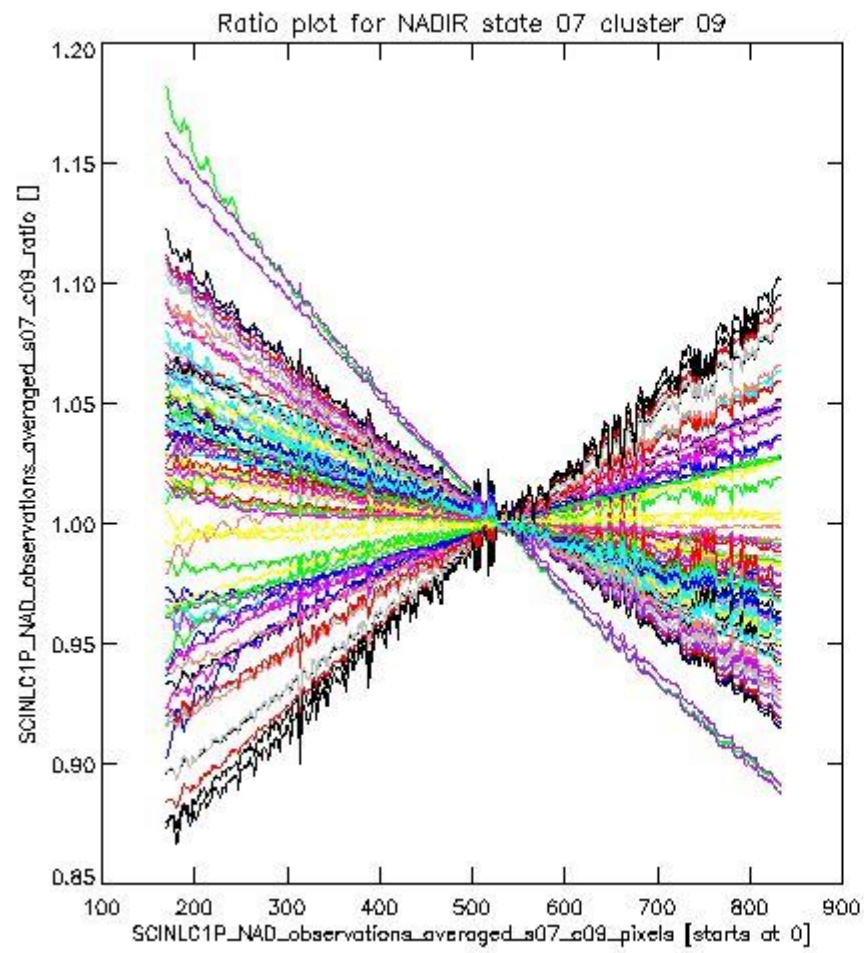
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110219_1.PNG

1.2.2 NADIR state 07 cluster 09 The data for the analysis of NADIR state 07 cluster 09 have the following characteristics:

Item	Value
Start time of first sample	19FEB2011 00:47:15.300
Start time of last sample	19FEB2011 22:39:37.630
Reference period start time	20JAN2011 00:49:10.786
Reference period stop time	18FEB2011 23:15:56.022
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	833



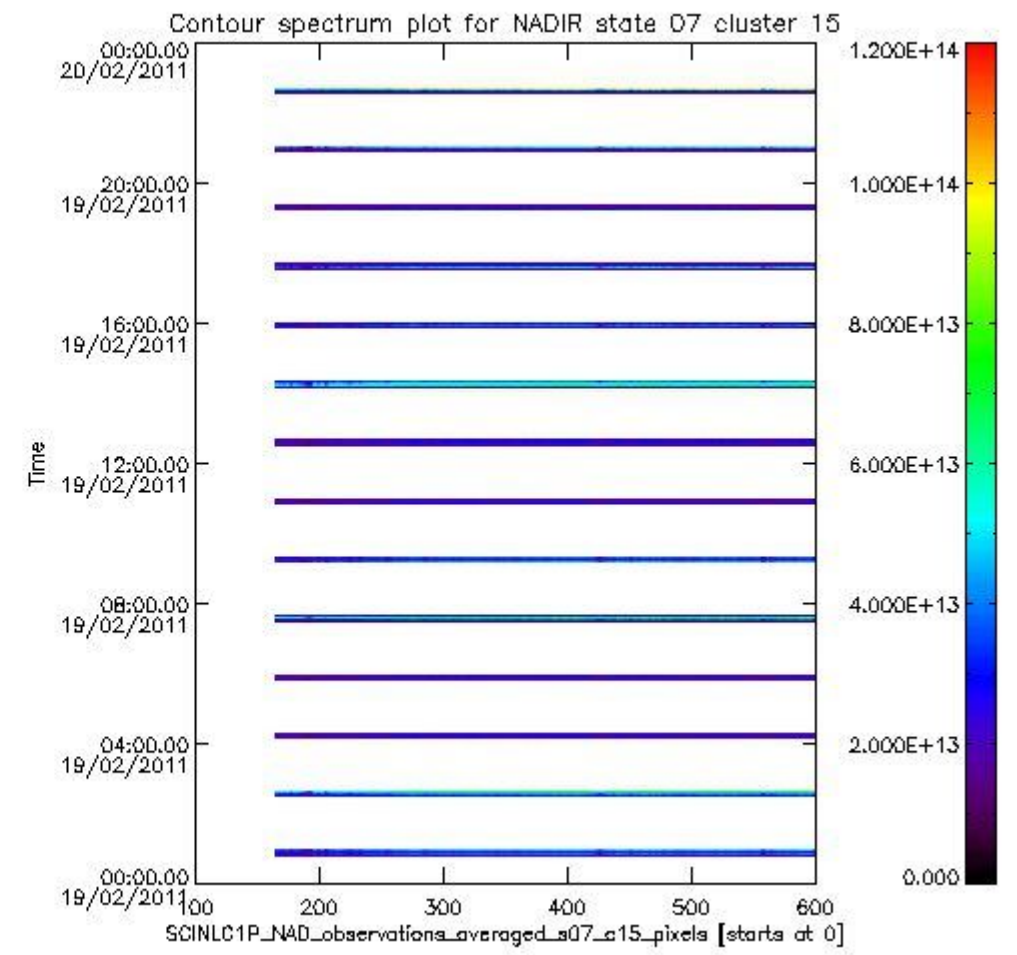
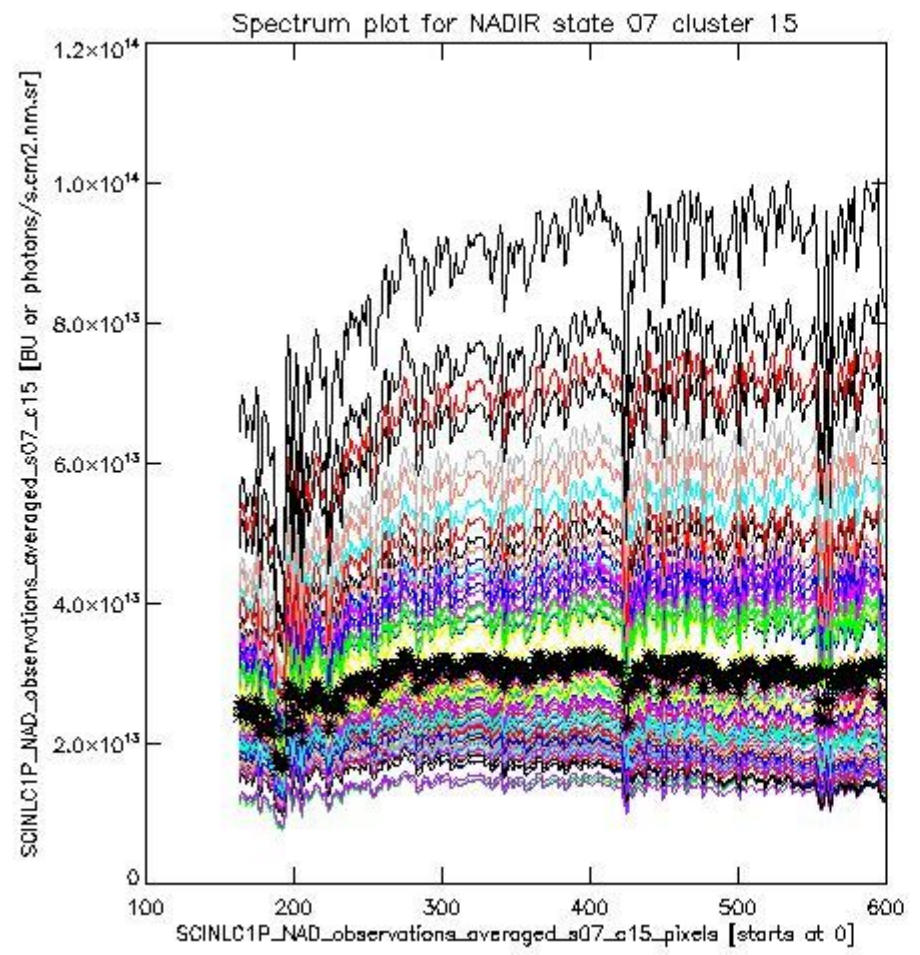
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110219_2.PNG



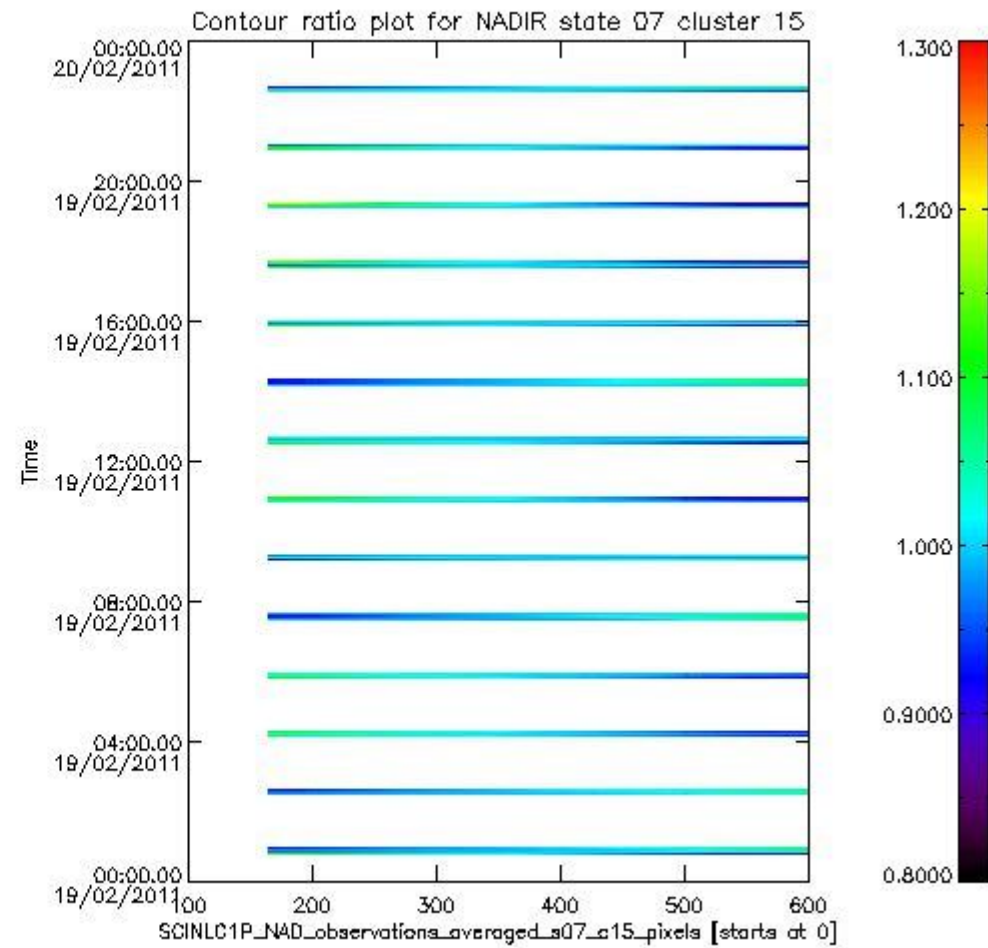
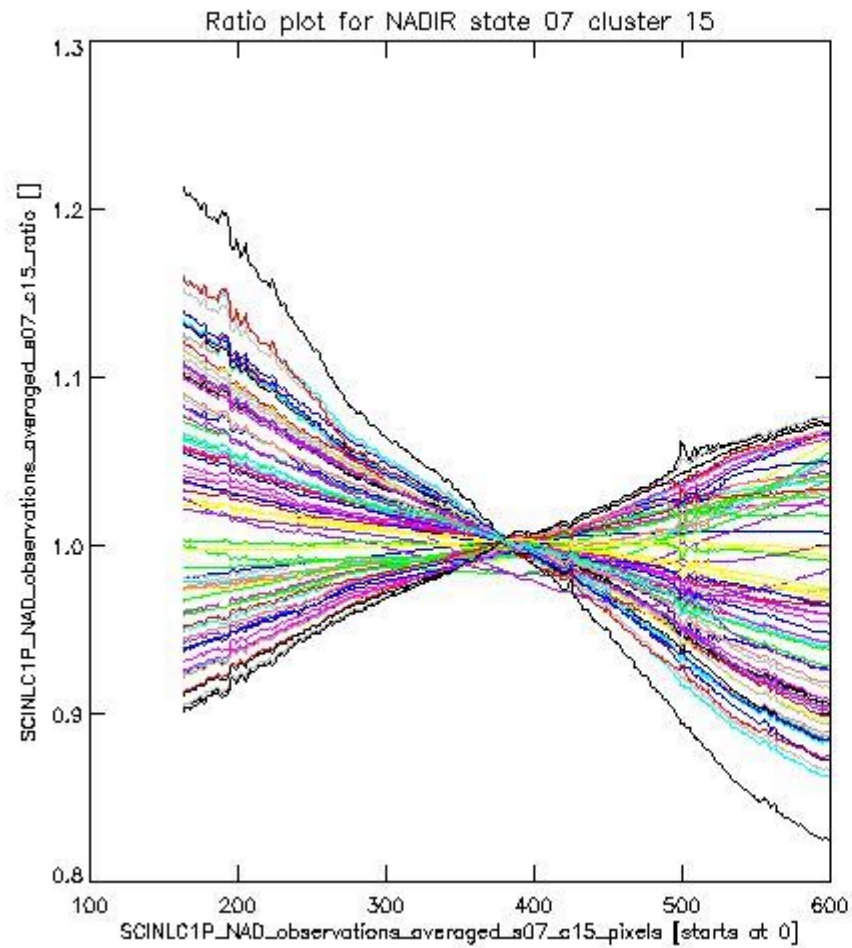
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110219_3.PNG

1.2.3 NADIR state 07 cluster 15 The data for the analysis of NADIR state 07 cluster 15 have the following characteristics:

Item	Value
Start time of first sample	19FEB2011 00:47:15.300
Start time of last sample	19FEB2011 22:39:37.630
Reference period start time	20JAN2011 00:49:10.786
Reference period stop time	18FEB2011 23:15:56.022
Channel number	3
First pixel number (starts at 0)	163
Last pixel number (starts at 0)	598



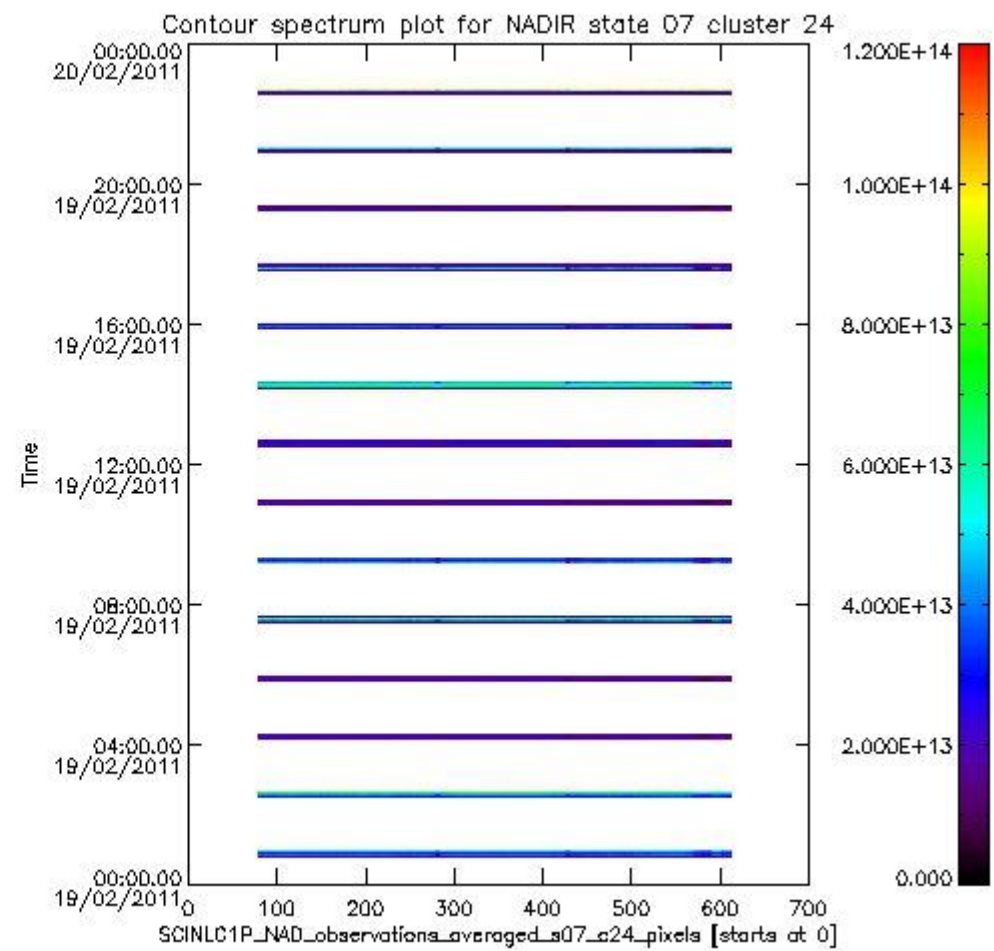
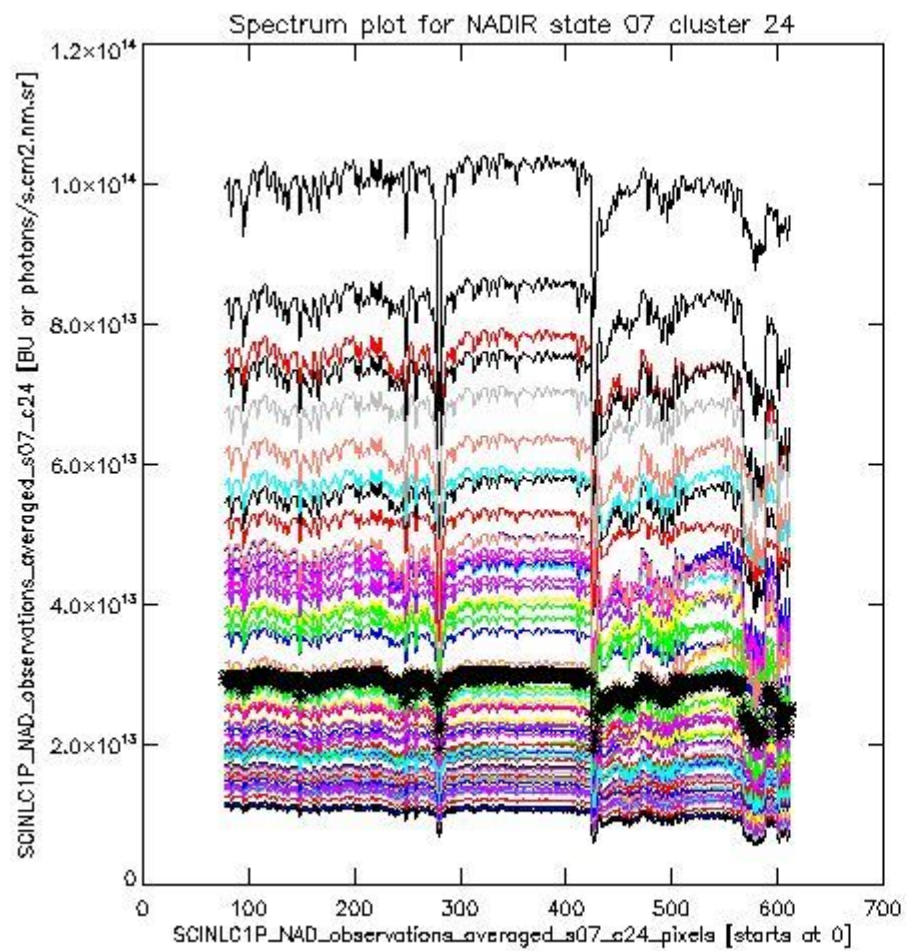
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110219_4.PNG



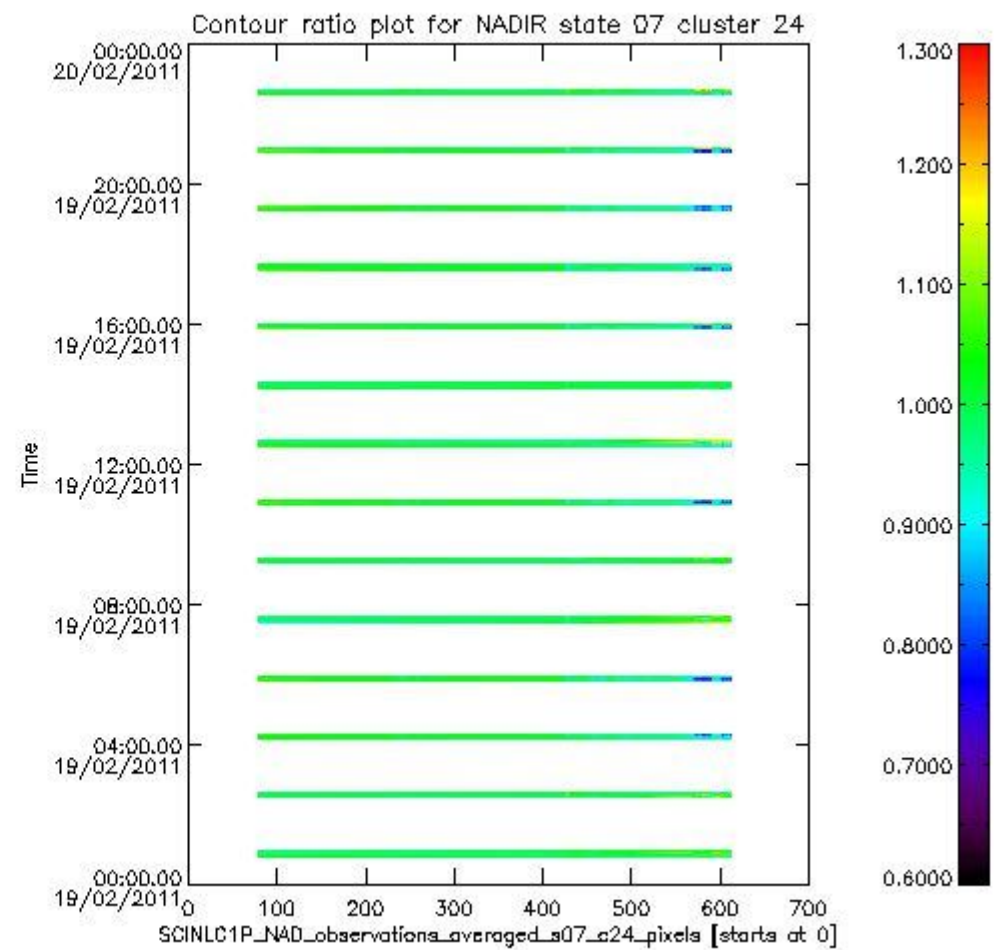
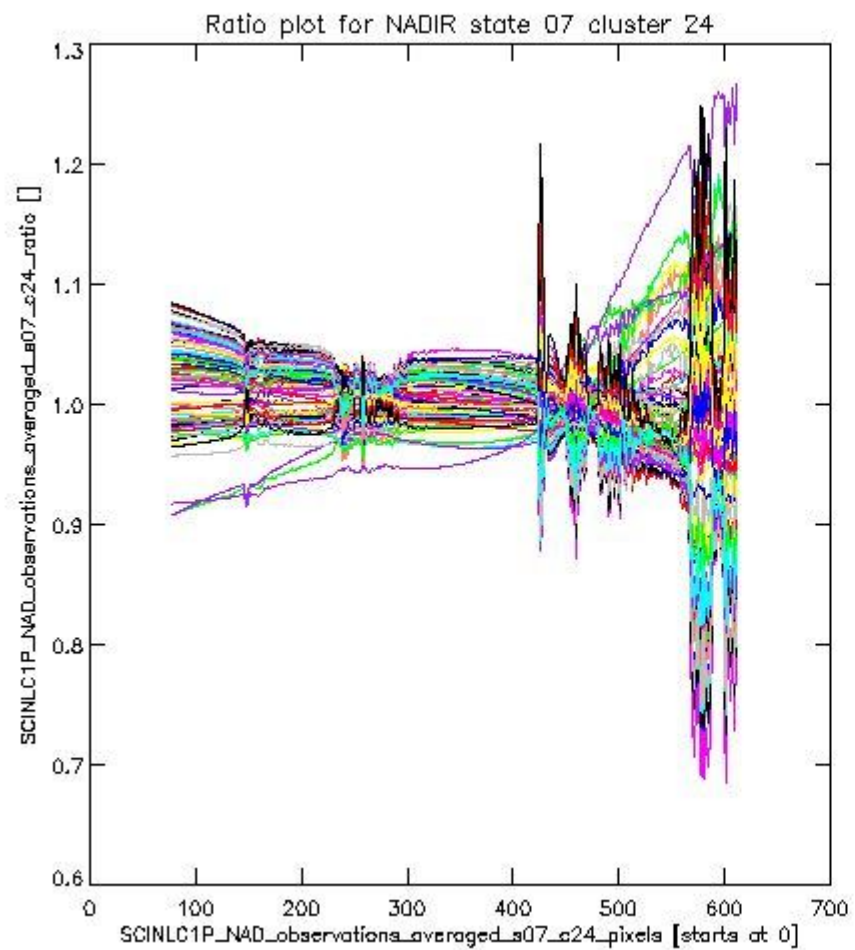
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110219_5.PNG

1.2.4 NADIR state 07 cluster 24 The data for the analysis of NADIR state 07 cluster 24 have the following characteristics:

Item	Value
Start time of first sample	19FEB2011 00:47:15.300
Start time of last sample	19FEB2011 22:39:37.630
Reference period start time	20JAN2011 00:49:10.786
Reference period stop time	18FEB2011 23:15:56.022
Channel number	4
First pixel number (starts at 0)	78
Last pixel number (starts at 0)	612



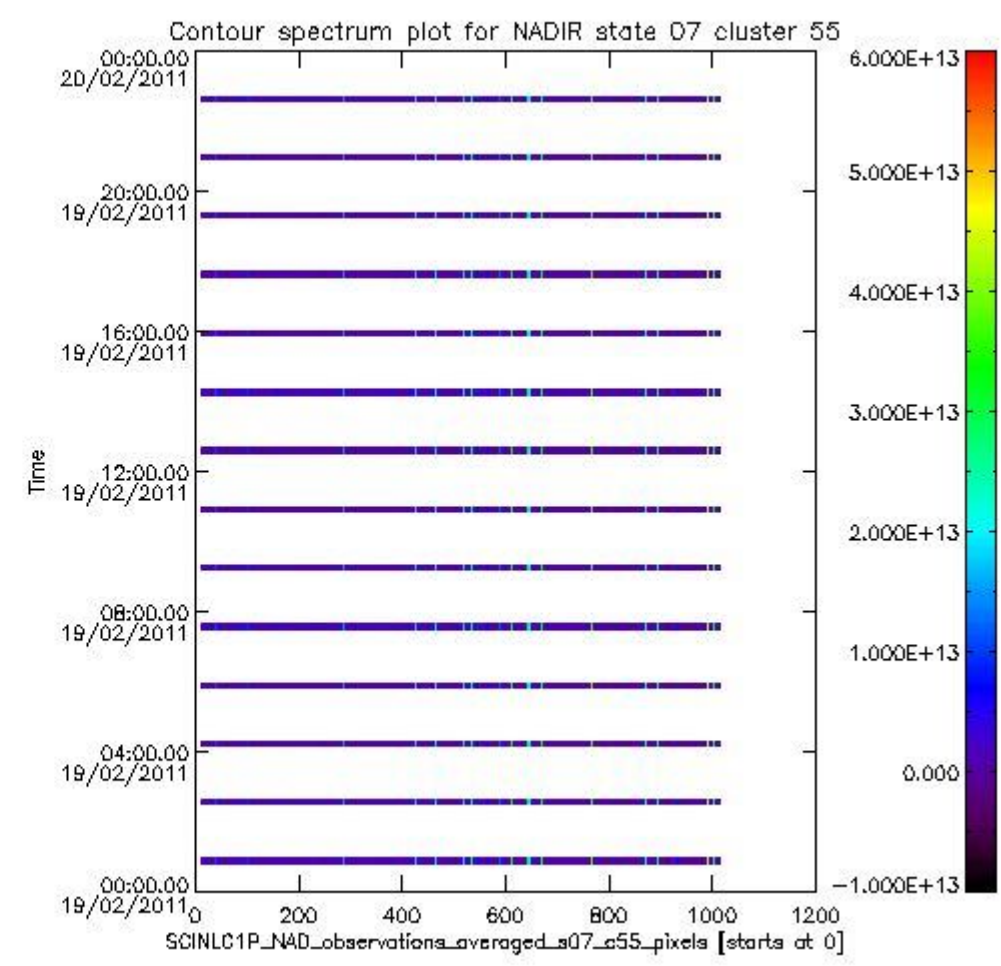
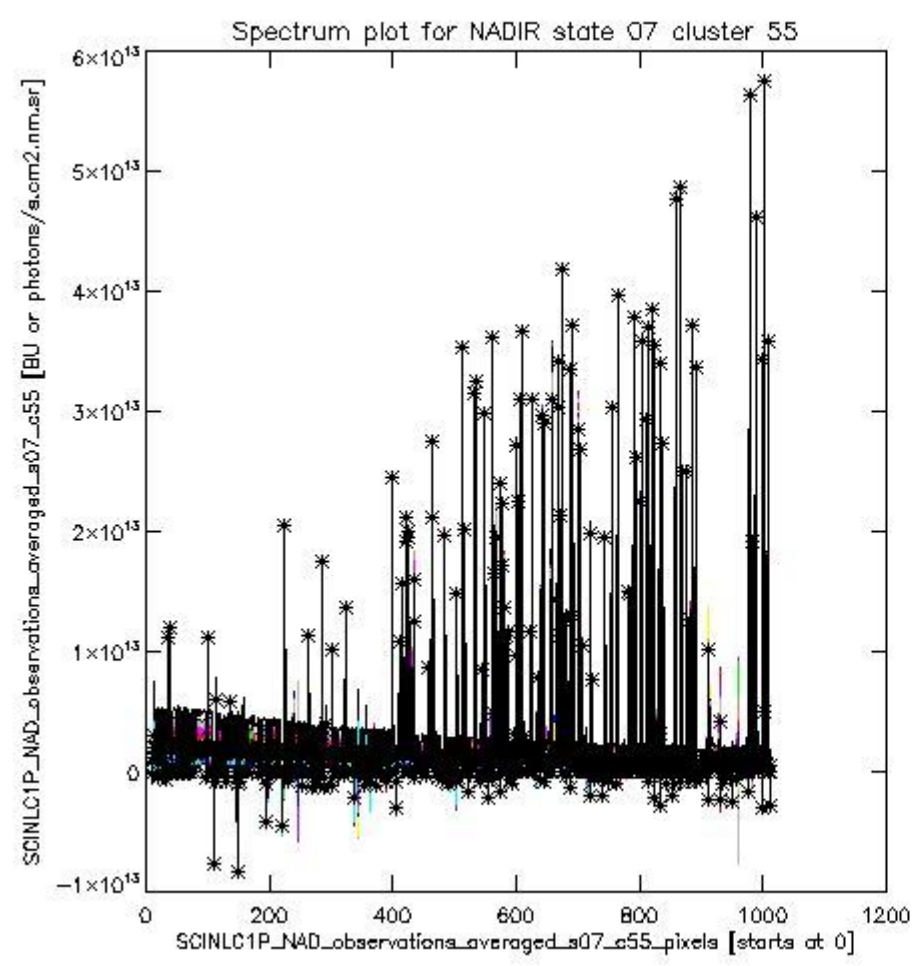
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110219_6.PNG



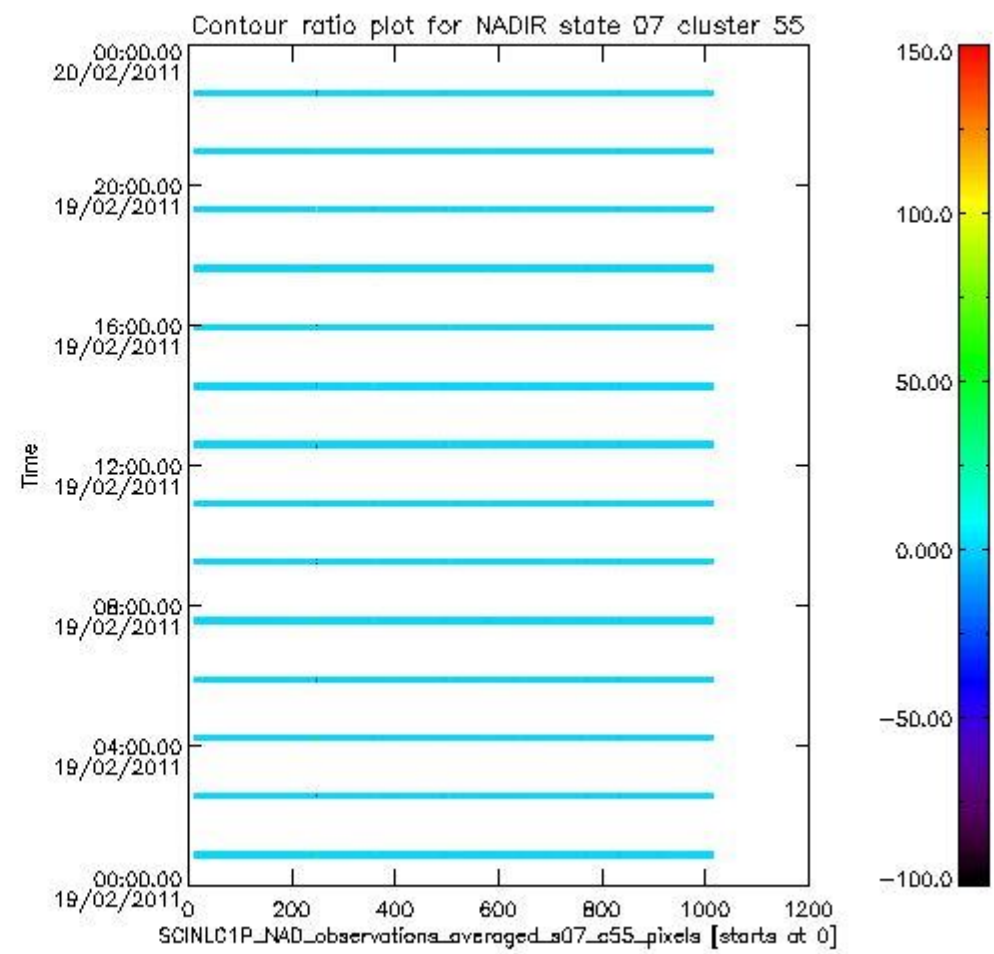
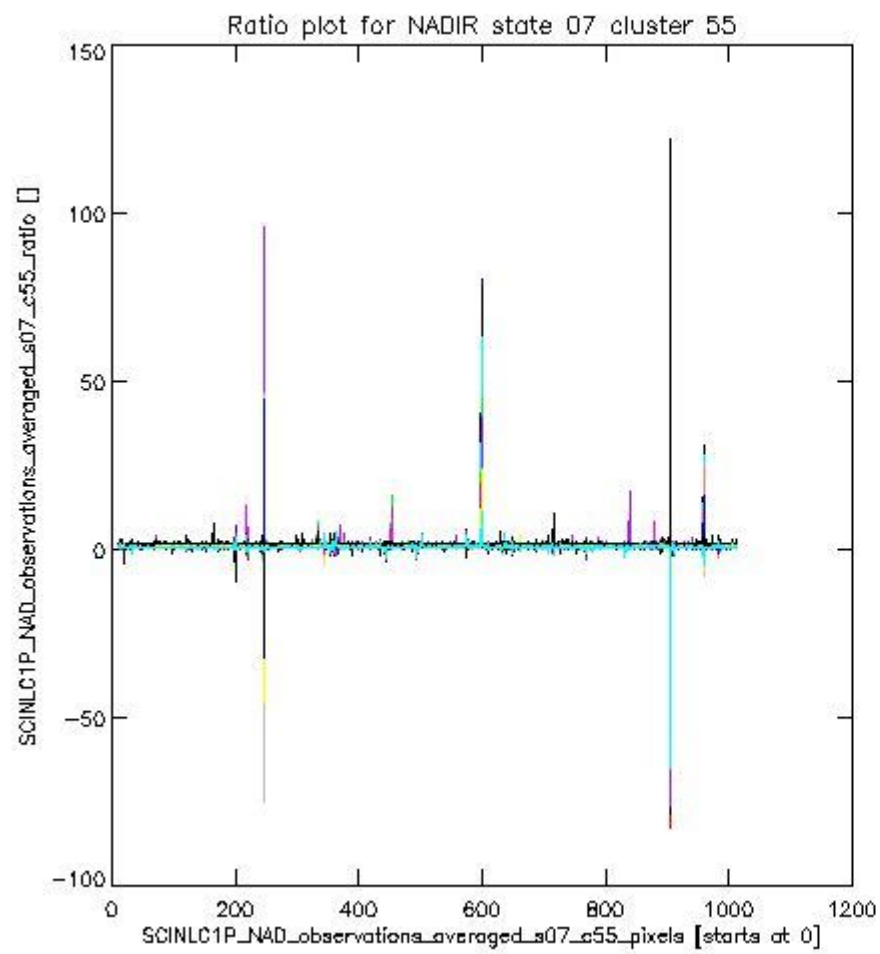
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110219_7.PNG

1.2.5 NADIR state 07 cluster 55 The data for the analysis of NADIR state 07 cluster 55 have the following characteristics:

Item	Value
Start time of first sample	19FEB2011 00:47:15.300
Start time of last sample	19FEB2011 22:39:37.630
Reference period start time	20JAN2011 00:49:10.786
Reference period stop time	18FEB2011 23:15:56.022
Channel number	8
First pixel number (starts at 0)	10
Last pixel number (starts at 0)	1013



sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110219_8.PNG



sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110219_9.PNG

1.2.6 LIMB state 32 cluster 09 height ~19 km

1.2.7 LIMB state 32 cluster 09 height ~22 km

1.2.8 LIMB state 32 cluster 09 height ~25 km

1.2.9 LIMB state 32 cluster 15 height ~22 km

1.2.10 LIMB state 32 cluster 15 height ~25 km

1.2.11 LIMB state 32 cluster 15 height ~35 km

