

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	20APR2011 06:55:28
Data source version	SCIA/7.04-U
Processing scope for products	09APR2011 00:00:00 to 10APR2011 00:00:00
Start time of first product within scope	08APR2011 22:33:31
Stop time of last product within scope	10APR2011 00:47:10
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	09APR2011 00:45:47.911	09APR2011 22:38:04.343
1	NADIR	07	09	N/A	09APR2011 00:45:47.911	09APR2011 22:38:04.343
2	NADIR	07	15	N/A	09APR2011 00:45:47.911	09APR2011 22:38:04.343
3	NADIR	07	24	N/A	09APR2011 00:45:47.911	09APR2011 22:38:04.343
4	NADIR	07	55	N/A	09APR2011 00:45:47.911	09APR2011 22:38:04.343
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	#noproc	#cmlpl_drk	#incmpl_drk	Decont
0	SCI_NLC_1CUDPA20110408_222500_000060013101_00188_47616_0012.N1	08APR2011 22:33:31	08APR2011 23:44:00	0	36	30	0	0	1	0	0	
1	SCI_NLC_1CUDPA20110409_000505_000060173101_00189_47617_0014.N1	09APR2011 00:13:45	09APR2011 01:23:59	0	35	31	0	0	1	0	0	
2	SCI_NLC_1CUDPA20110409_014526_000035583101_00190_47618_0017.N1	09APR2011 01:53:58	09APR2011 02:44:45	0	21	28	0	0	0	0	0	
3	SCI_NLC_1CUDPA20110409_042548_000024023101_00191_47619_0018.N1	09APR2011 04:26:42	09APR2011 04:44:27	0	14	2	0	0	2	0	0	
4	SCI_NLC_1CUDPA20110409_050553_000060023101_00192_47620_0020.N1	09APR2011 05:14:26	09APR2011 06:24:55	0	36	30	0	0	1	0	0	
5	SCI_NLC_1CUDPA20110409_064559_000060173101_00193_47621_0021.N1	09APR2011 06:54:39	09APR2011 08:04:54	0	35	31	0	0	1	0	0	

6	SCI_NLC_1CUDPA20110409_082621_000060013101_00194_47622_0023.N1	09APR2011 08:34:53	09APR2011 09:45:22	0	36	30	0	0	1	0	0	
7	SCI_NLC_1CUDPA20110409_100626_000060173101_00195_47623_0024.N1	09APR2011 10:15:06	09APR2011 11:25:21	0	35	31	0	0	1	0	0	
8	SCI_NLC_1CUDPA20110409_114647_000060013101_00196_47624_0025.N1	09APR2011 11:55:20	09APR2011 13:05:49	0	36	30	0	0	1	0	0	
9	SCI_NLC_1CUDPA20110409_132653_000060173101_00197_47625_0029.N1	09APR2011 13:35:34	09APR2011 14:45:48	0	35	31	0	0	1	0	0	
10	SCI_NLC_1CUDPA20110409_150714_000060023101_00198_47626_0031.N1	09APR2011 15:15:47	09APR2011 16:26:16	0	36	30	0	0	1	0	0	
11	SCI_NLC_1CUDPA20110409_164720_000060173101_00199_47627_0034.N1	09APR2011 16:56:01	09APR2011 18:06:15	0	35	31	0	0	1	0	0	
12	SCI_NLC_1CUDPA20110409_182741_000060853101_00200_47628_0037.N1	09APR2011 18:36:15	09APR2011 19:46:57	0	36	30	0	1	1	0	0	
13	SCI_NLC_1CUDPA20110409_200911_000059343101_00201_47629_0038.N1	09APR2011 20:16:28	09APR2011 21:26:56	0	35	31	0	1	1	0	0	
14	SCI_NLC_1CUDPA20110409_214808_000060853101_00202_47630_0040.N1	09APR2011 21:56:42	09APR2011 23:07:11	0	36	30	0	0	1	0	0	
15	SCI_NLC_1CUDPA20110409_232937_000059343101_00203_47631_0041.N1	09APR2011 23:36:55	10APR2011 00:47:10	0	35	31	0	0	1	0	0	

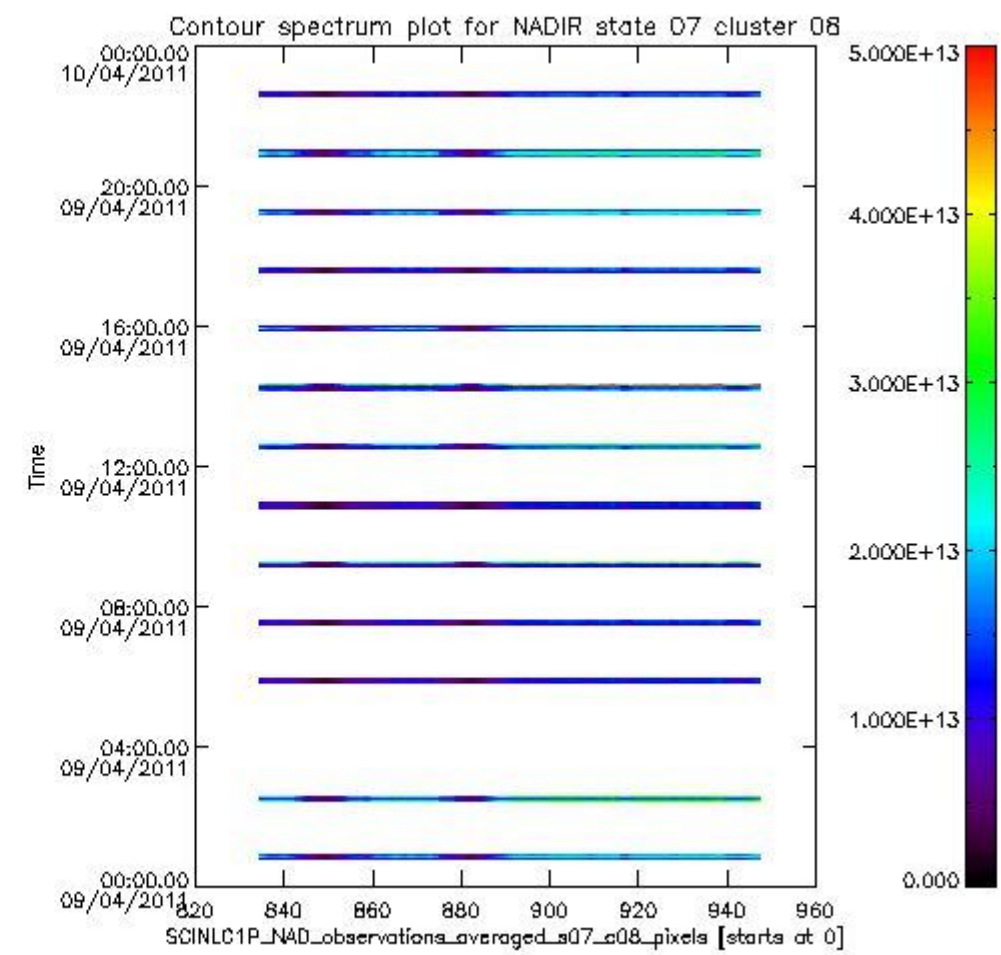
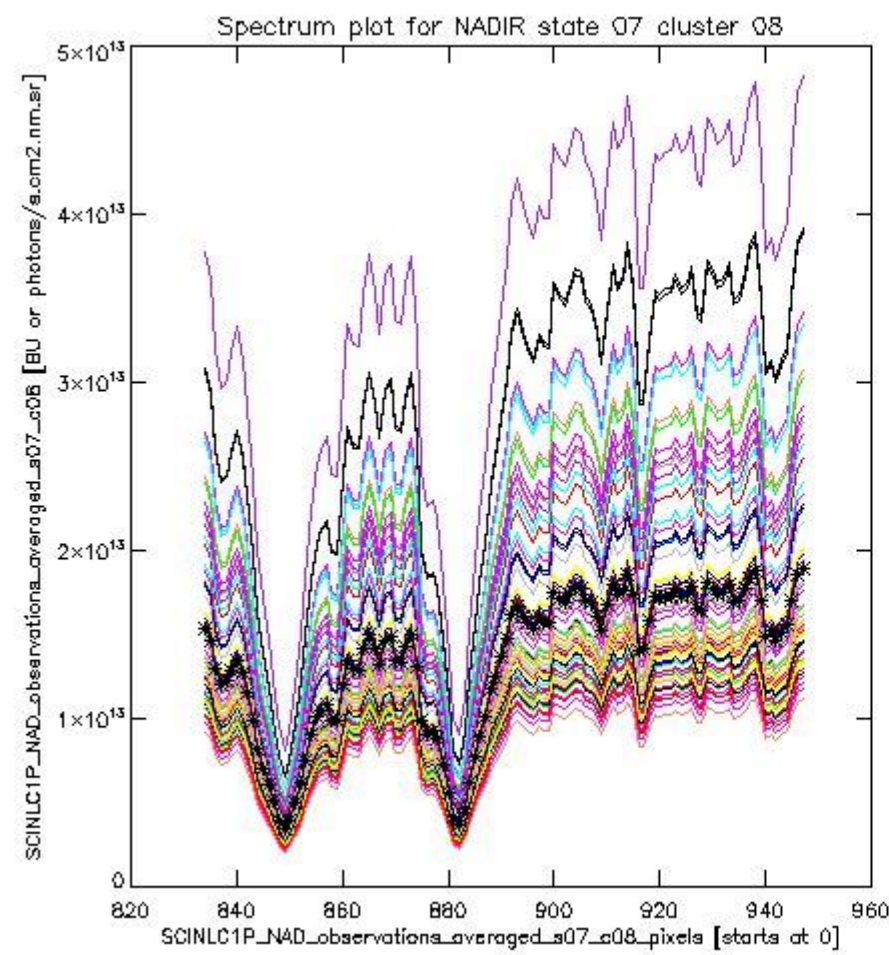
1.2 Source packet monitoring

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:

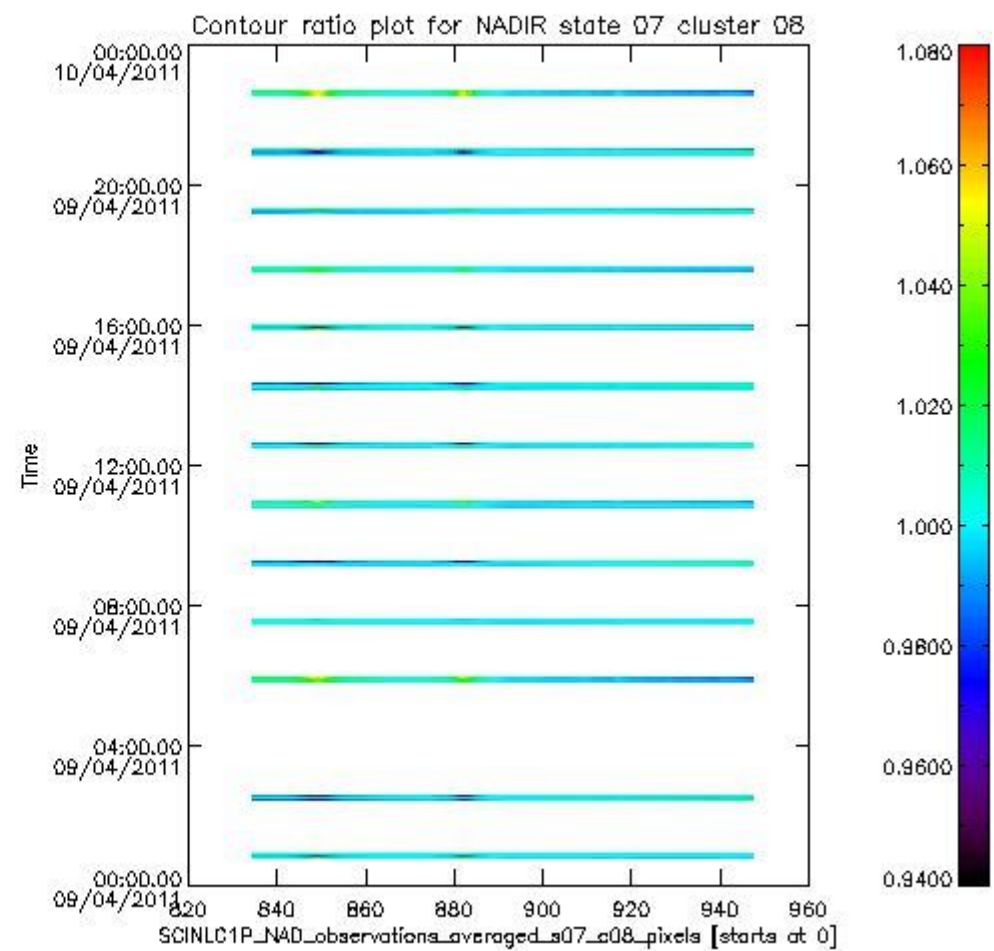
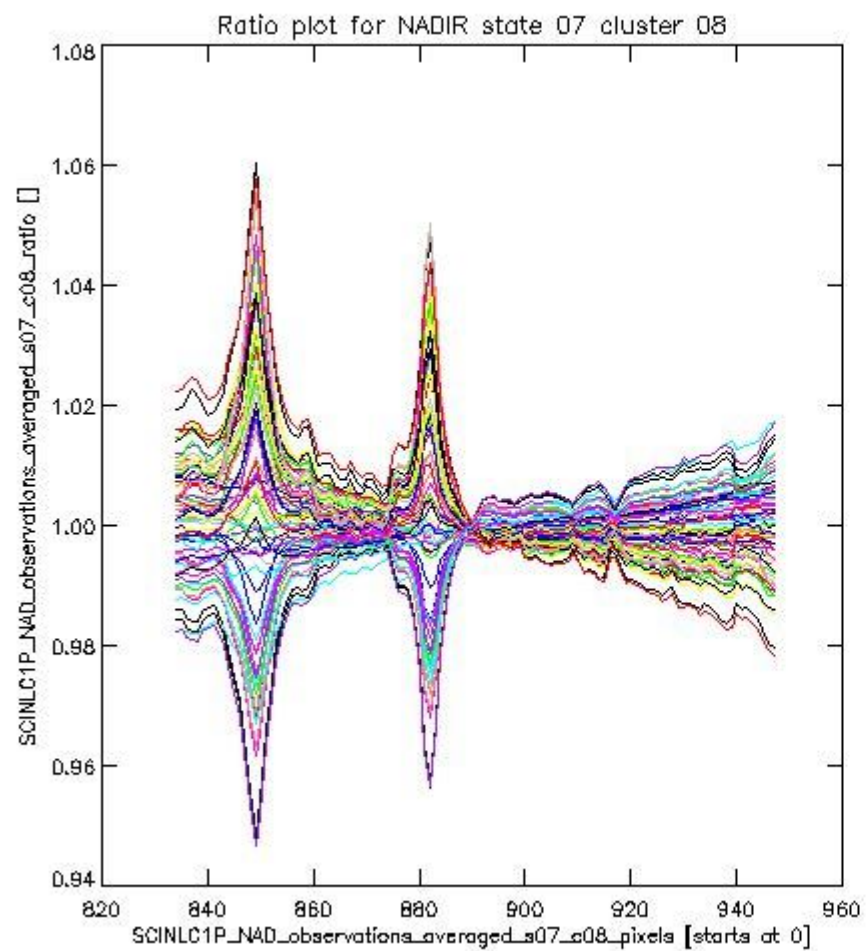
- A plot that shows all calibrated averaged spectra vs. pixel number as 2D-profiles. Each line is an average spectrum for a single state occurrence. For Limb modes, the average is performed on spectra recorded at a specific height. The reference spectrum that is used for comparison is also shown as a 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	09APR2011 00:45:47.911
Start time of last sample	09APR2011 22:38:04.343
Reference period start time	10MAR2011 00:49:32.268
Reference period stop time	08APR2011 23:14:53.887
Channel number	2
First pixel number (starts at 0)	834
Last pixel number (starts at 0)	947



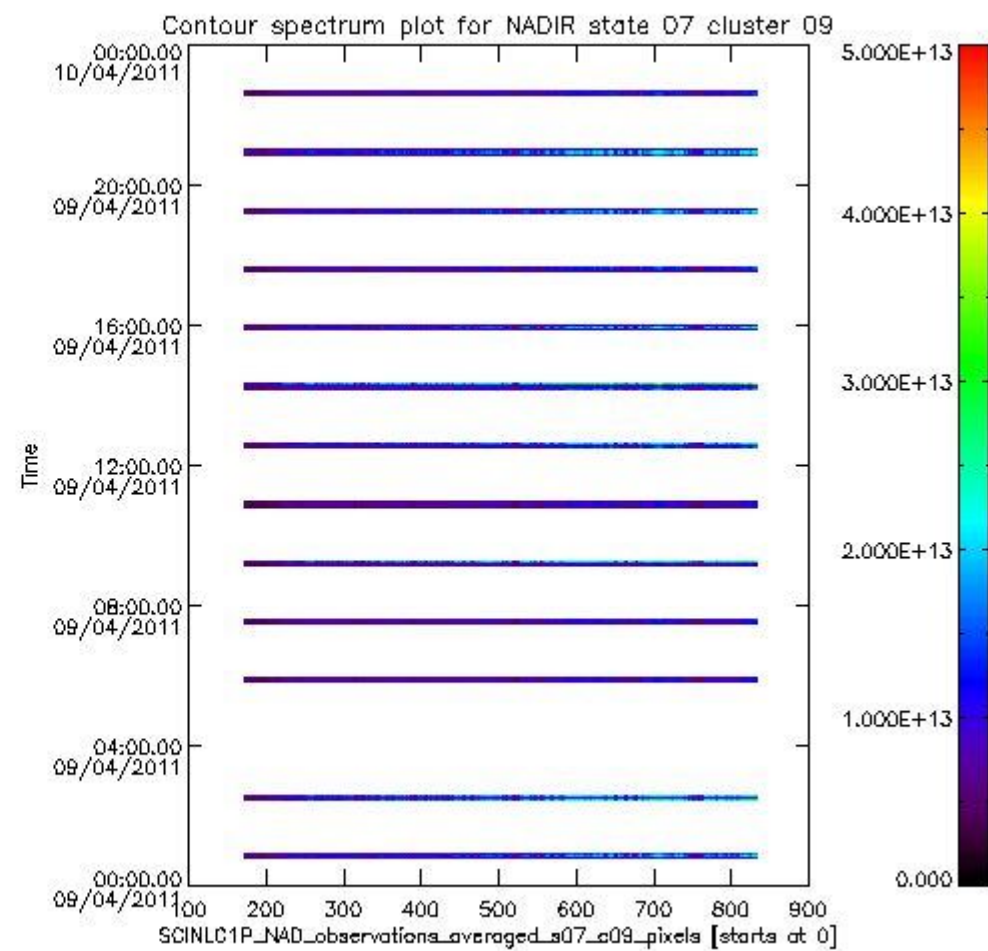
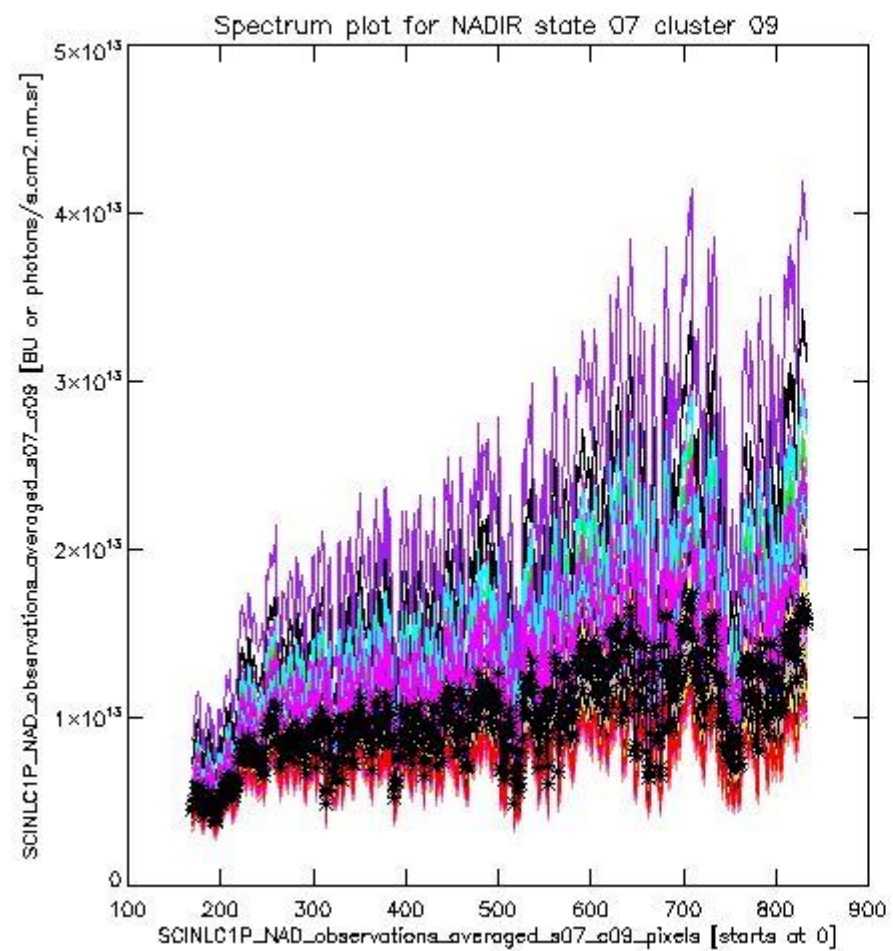
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110409_0.PNG



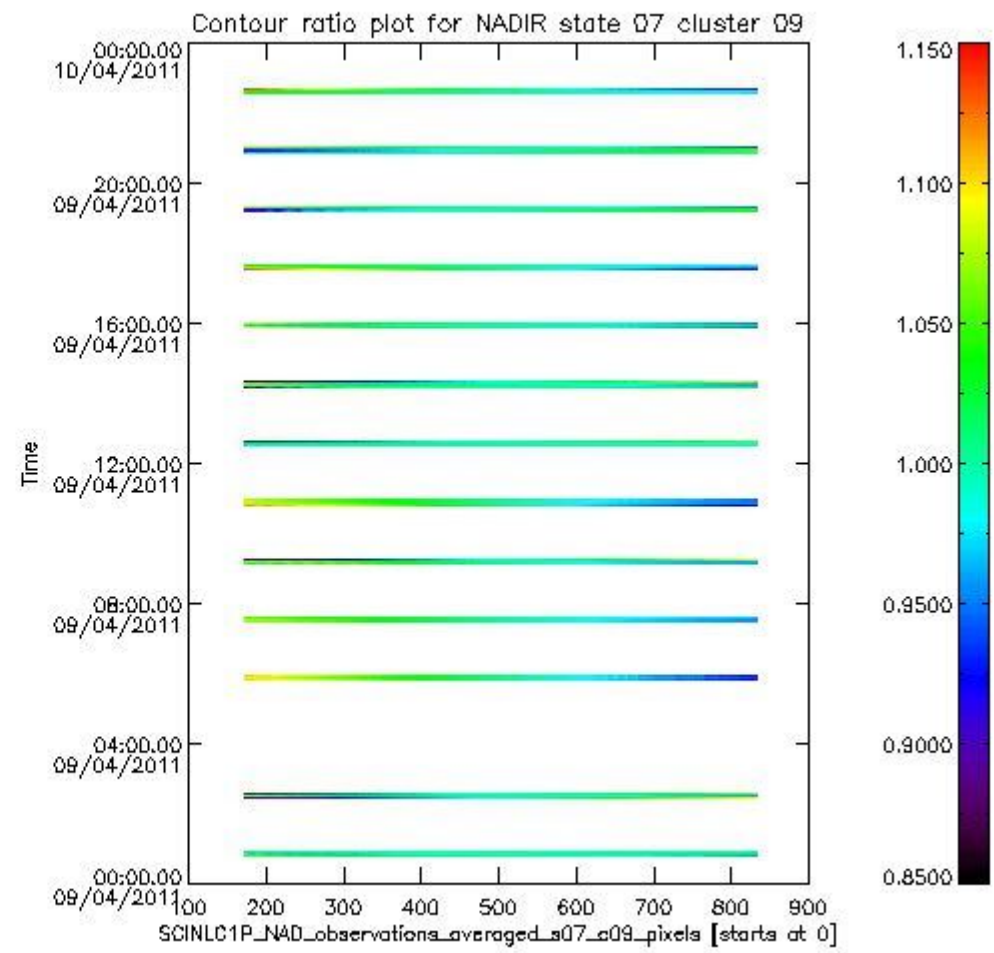
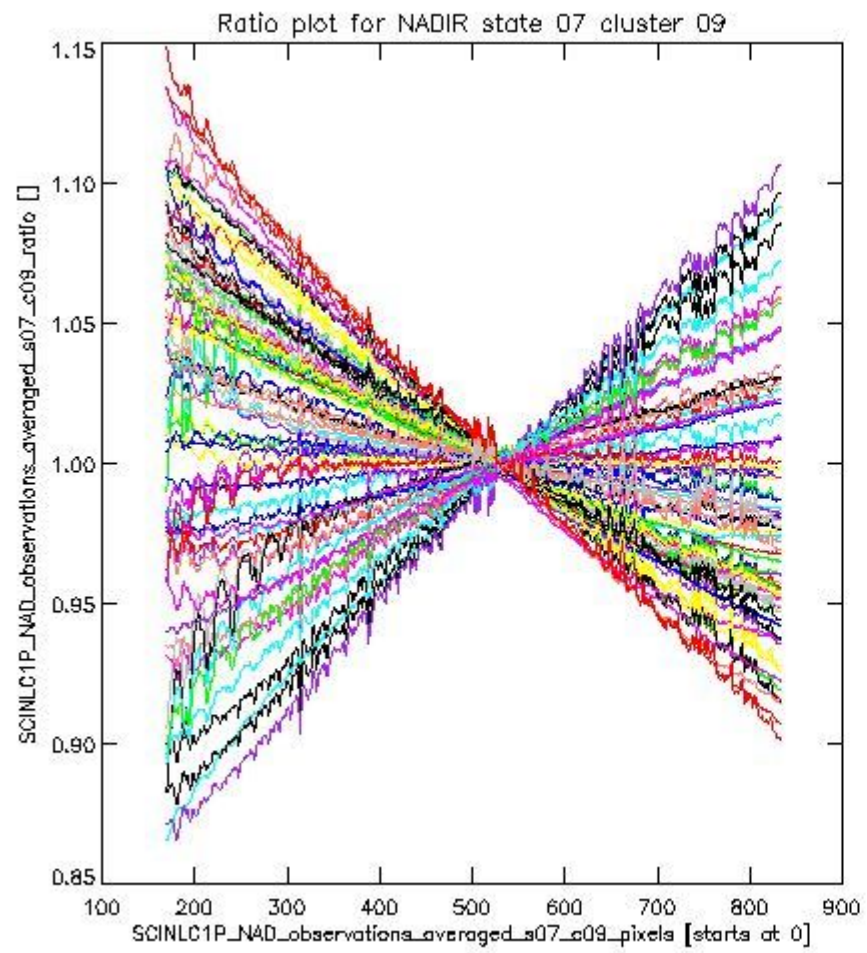
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110409_1.PNG

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	09APR2011 00:45:47.911
Start time of last sample	09APR2011 22:38:04.343
Reference period start time	10MAR2011 00:49:32.268
Reference period stop time	08APR2011 23:14:53.887
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	833



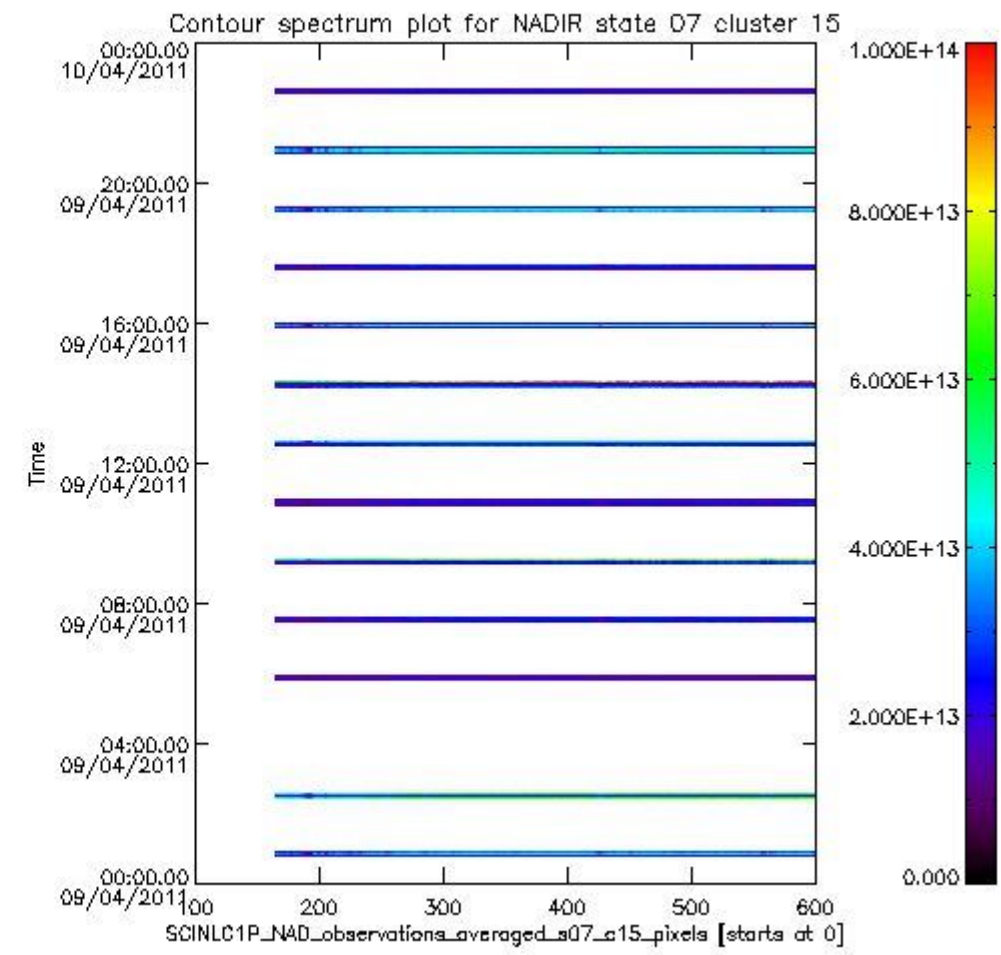
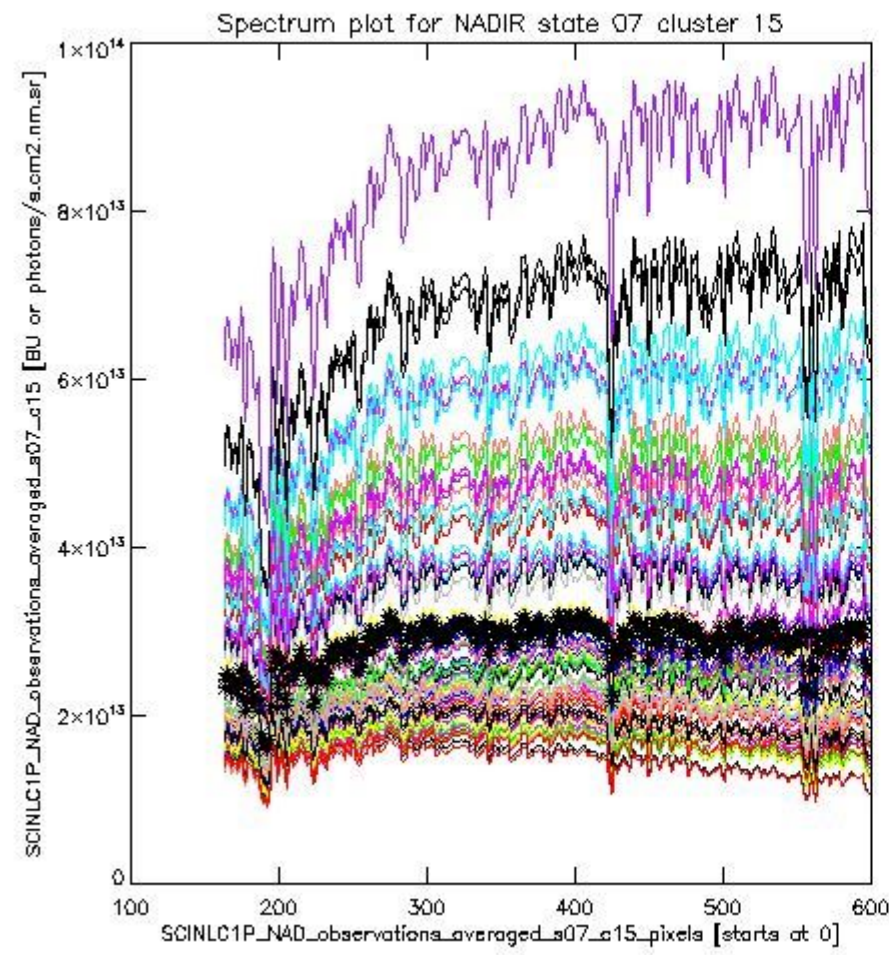
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110409_2.PNG



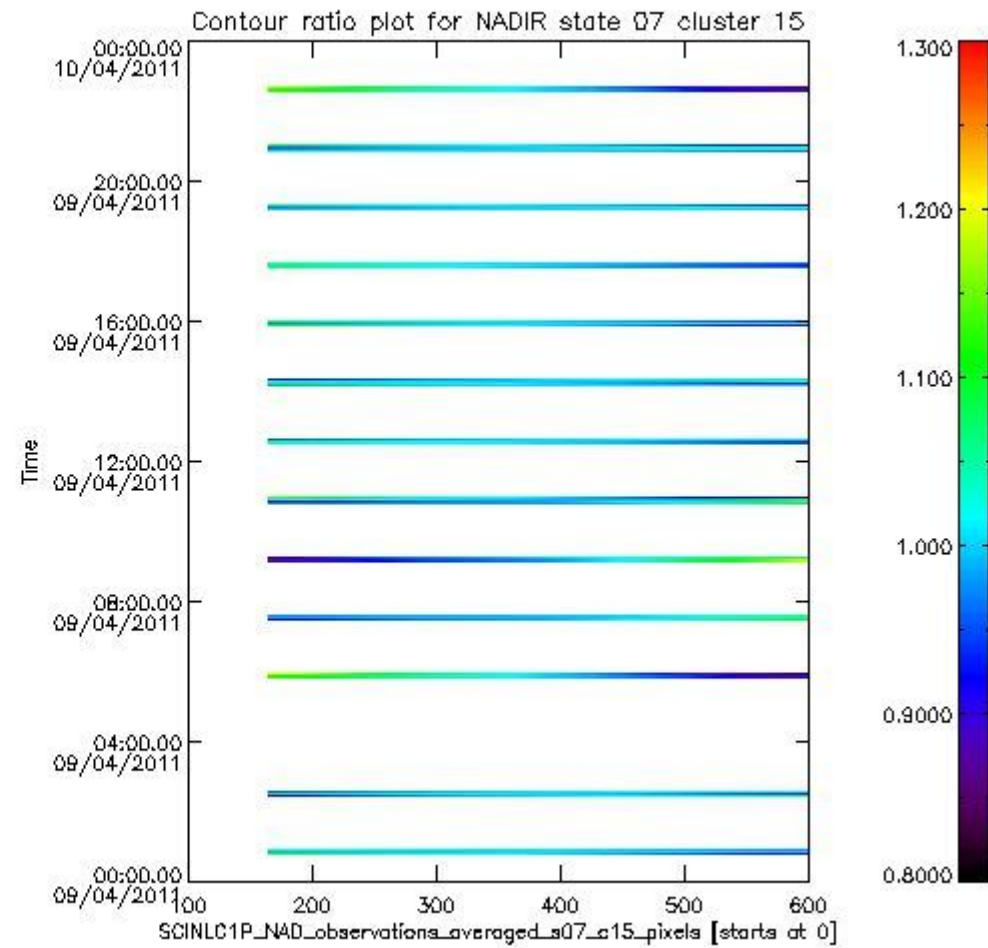
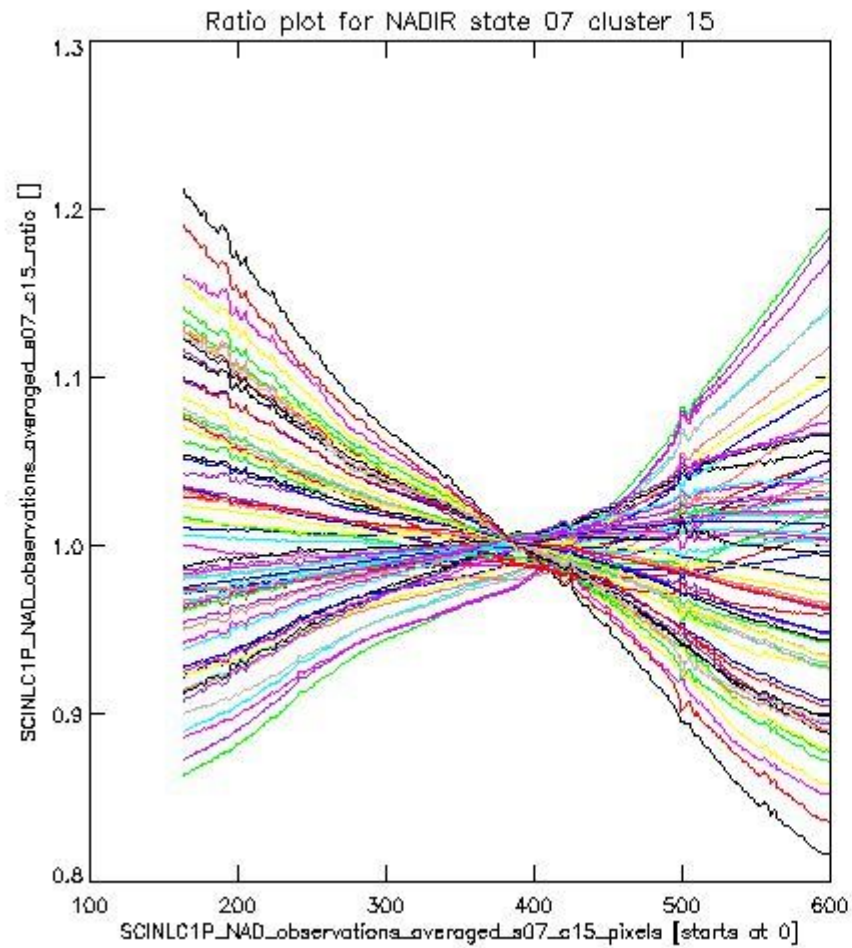
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110409_3.PNG

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	09APR2011 00:45:47.911
Start time of last sample	09APR2011 22:38:04.343
Reference period start time	10MAR2011 00:49:32.268
Reference period stop time	08APR2011 23:14:53.887
Channel number	3
First pixel number (starts at 0)	163
Last pixel number (starts at 0)	598



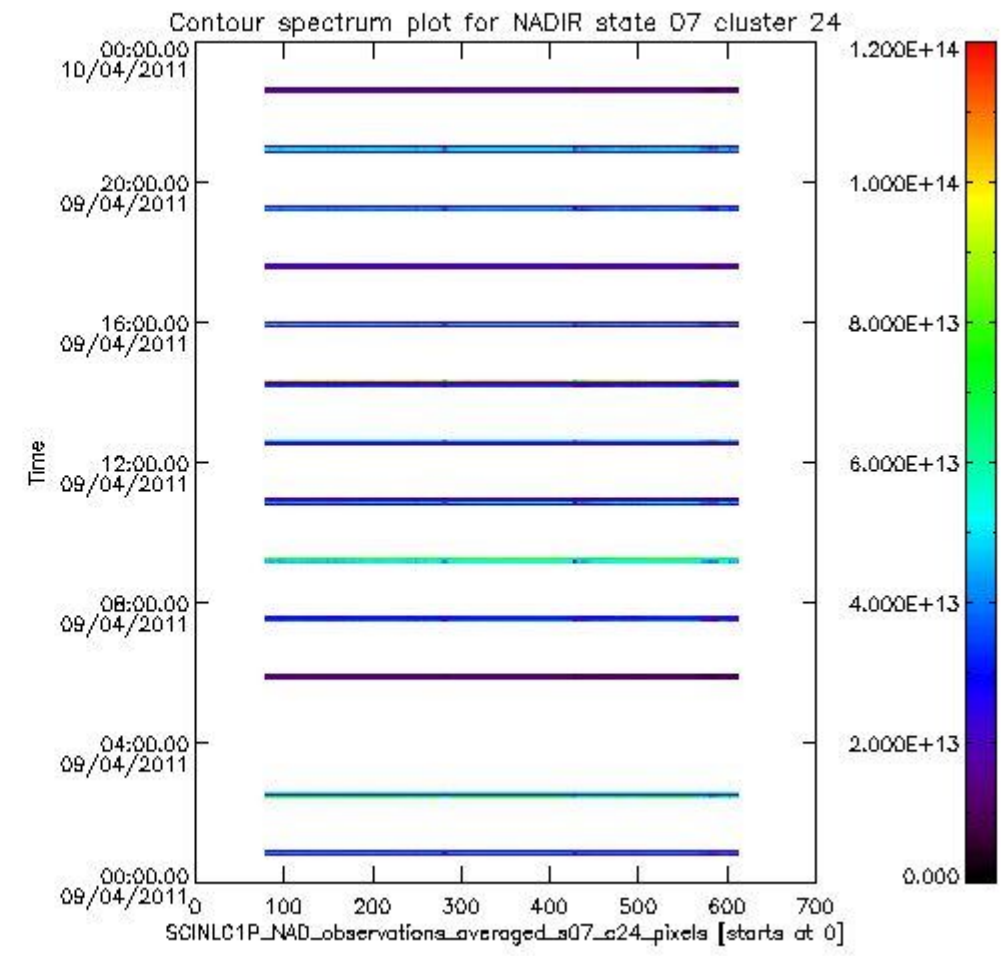
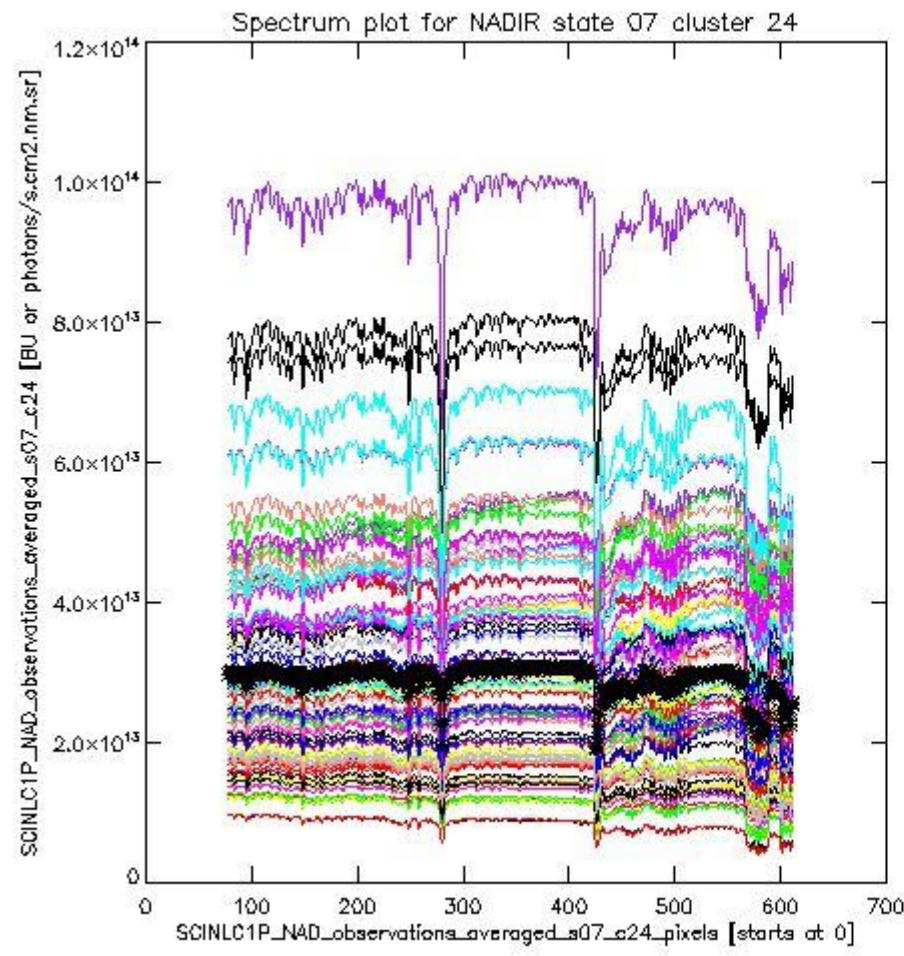
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110409_4.PNG



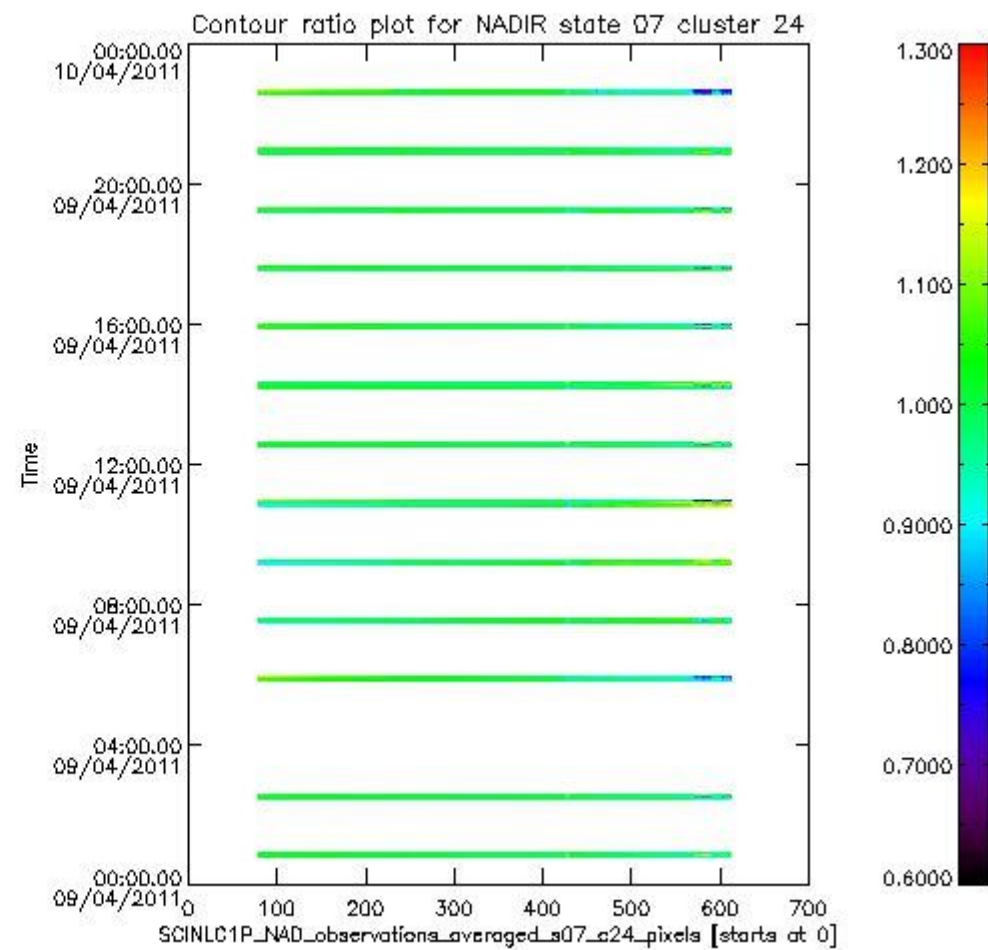
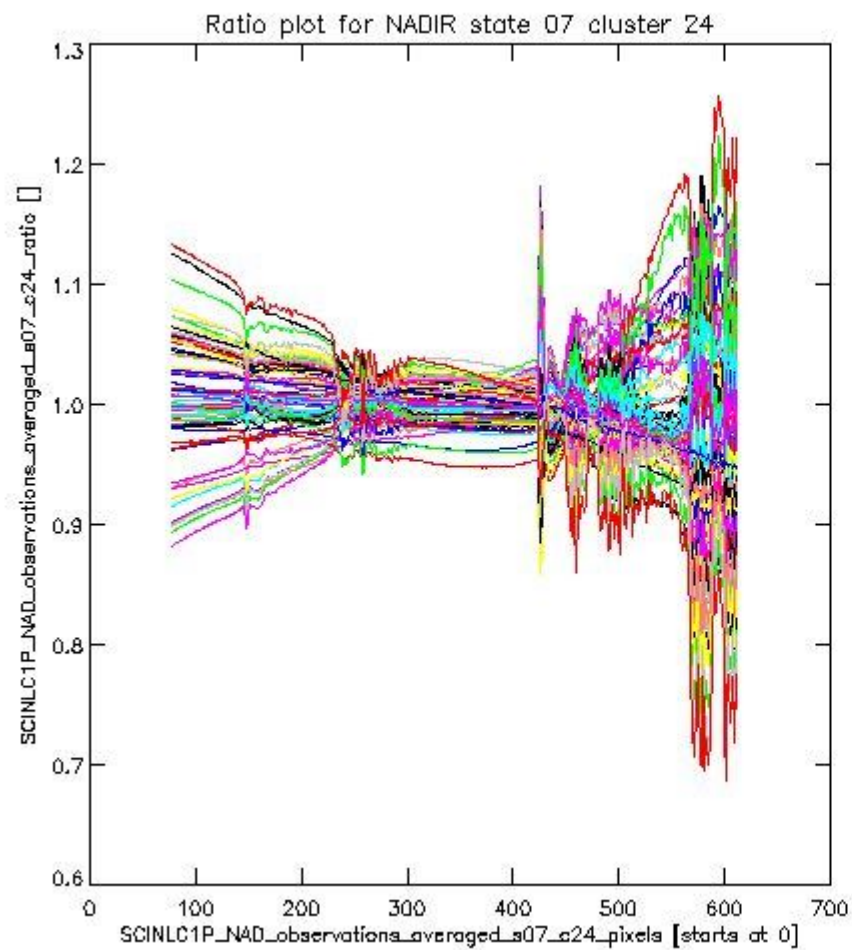
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110409_5.PNG

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	09APR2011 00:45:47.911
Start time of last sample	09APR2011 22:38:04.343
Reference period start time	10MAR2011 00:49:32.268
Reference period stop time	08APR2011 23:14:53.887
Channel number	4
First pixel number (starts at 0)	78
Last pixel number (starts at 0)	612



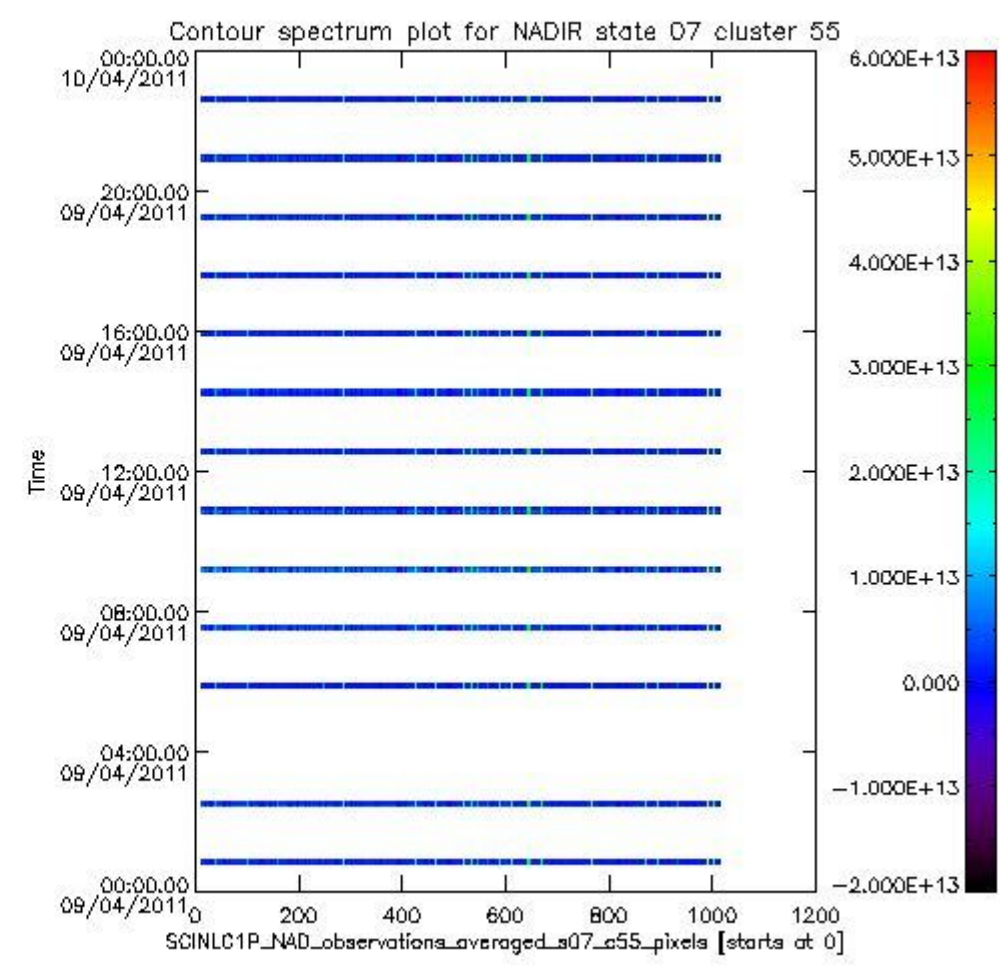
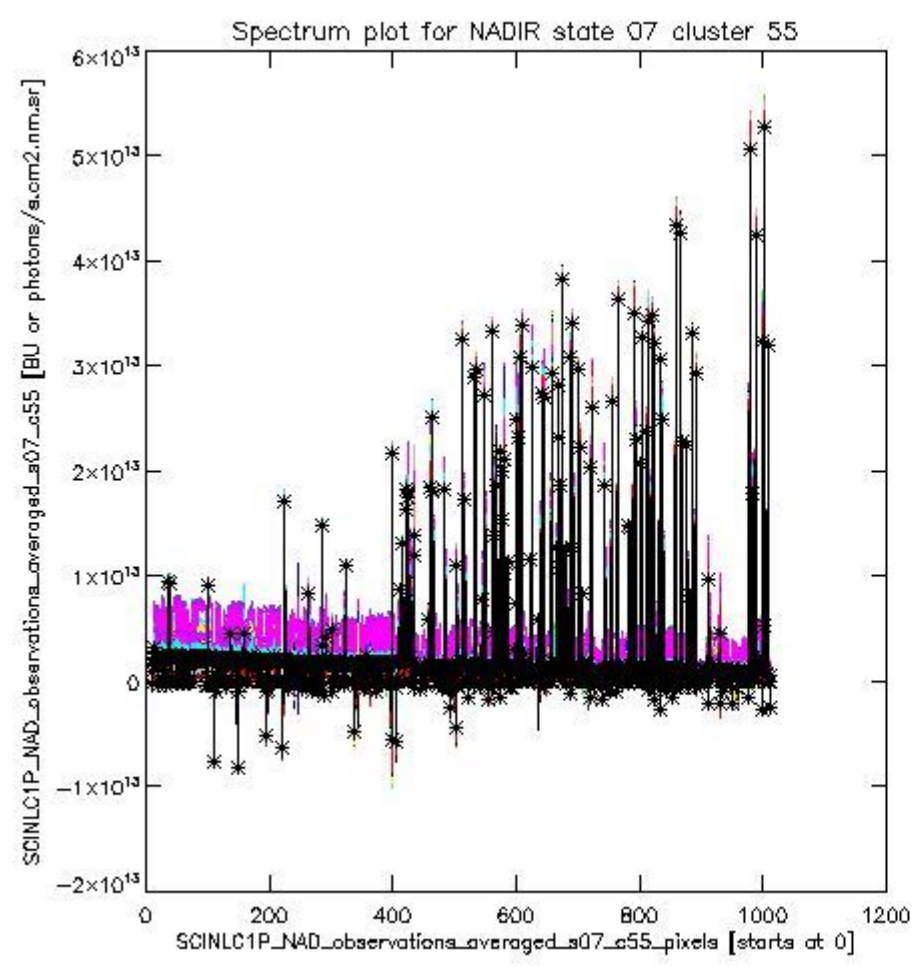
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110409_6.PNG



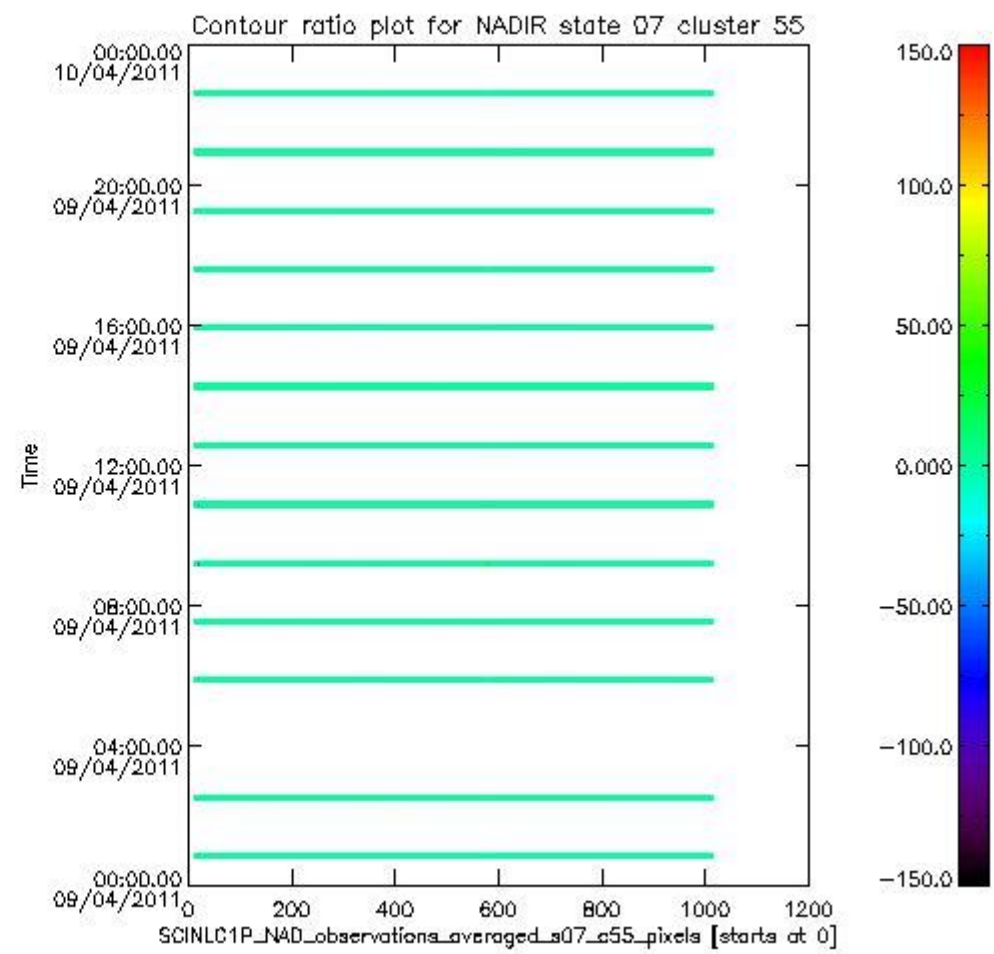
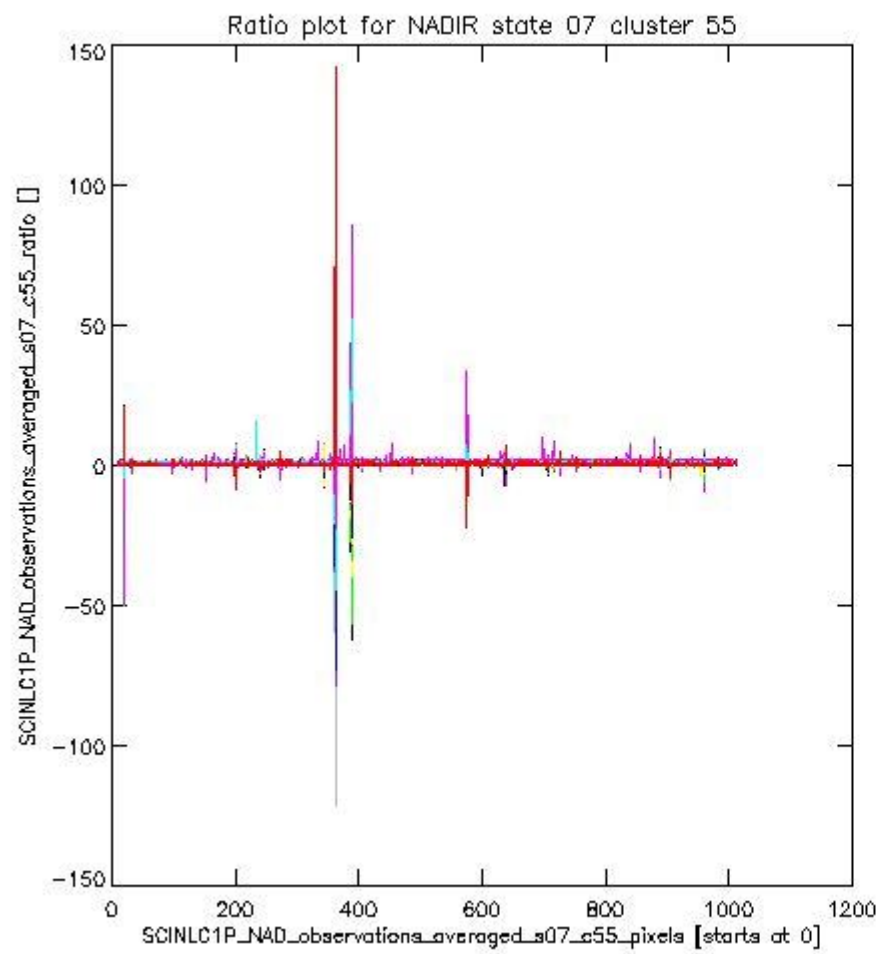
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110409_7.PNG

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	09APR2011 00:45:47.911
Start time of last sample	09APR2011 22:38:04.343
Reference period start time	10MAR2011 00:49:32.268
Reference period stop time	08APR2011 23:14:53.887
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_20110409_8.PNG



sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110409_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

