

1. SCIAMACHY Level 1B source packet monitoring report

[1.1. General Info](#)

[1.2 Source packet monitoring](#)

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	18JAN2011 06:55:35
Data source version	SCIA/7.04-U
Processing scope for products	07JAN2011 00:00:00 to 08JAN2011 00:00:00
Start time of first product within scope	07JAN2011 09:55:39
Stop time of last product within scope	08JAN2011 00:27:59
Total number of level 1 products	9
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	07JAN2011 10:28:51.135	07JAN2011 23:58:52.571
1	NADIR	07	09	N/A	07JAN2011 10:28:51.135	07JAN2011 23:58:52.571
2	NADIR	07	15	N/A	07JAN2011 10:28:51.135	07JAN2011 23:58:52.571
3	NADIR	07	24	N/A	07JAN2011 10:28:51.135	07JAN2011 23:58:52.571
4	NADIR	07	55	N/A	07JAN2011 10:28:51.135	07JAN2011 23:58:52.571
5	LIMB	32	09	~19 km	07JAN2011 10:13:37.752	07JAN2011 23:57:58.392
6	LIMB	32	09	~22 km	07JAN2011 10:13:37.752	07JAN2011 23:57:58.392
7	LIMB	32	09	~25 km	07JAN2011 10:13:37.752	07JAN2011 23:57:58.392
8	LIMB	32	15	~22 km	07JAN2011 10:13:37.752	07JAN2011 23:57:58.392
9	LIMB	32	15	~25 km	07JAN2011 10:13:37.752	07JAN2011 23:57:58.392
10	LIMB	32	15	~35 km	07JAN2011 10:13:37.752	07JAN2011 23:57:58.392

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	#nopro	#cpl_drk	#incpl_drk	Decont
0	SCI_NLC_1CUDPA20110107_093757_000060093098_00166_46301_1535.N1	07JAN2011 09:55:39	07JAN2011 11:06:08	0	36	30	0	0	1	0	0	
1	SCI_NLC_1CUDPA20110107_111810_000060103098_00167_46302_1536.N1	07JAN2011 11:35:53	07JAN2011 12:46:08	0	35	31	0	0	1	0	0	
2	SCI_NLC_1CUDPA20110107_125824_000060093098_00168_46303_1537.N1	07JAN2011 13:16:07	07JAN2011 14:26:36	0	36	30	0	0	1	0	0	
3	SCI_NLC_1CUDPA20110107_143838_000060103098_00169_46304_1538.N1	07JAN2011 14:56:21	07JAN2011 16:06:35	0	35	31	0	0	1	0	0	
4	SCI_NLC_1CUDPA20110107_161852_000060093098_00170_46305_1540.N1	07JAN2011 16:36:35	07JAN2011 17:47:04	0	36	30	0	0	1	0	0	
5	SCI_NLC_1CUDPA20110107_175906_000060103098_00171_46306_1542.N1	07JAN2011 18:16:49	07JAN2011 19:27:23	0	35	31	0	1	1	0	0	

6	SCI_NLC_1CUDPA20110107_193920_000060093098_00172_46307_1544.N1	07JAN2011 19:57:02	07JAN2011 21:07:51	0	36	30	0	1	1	0	0	
7	SCI_NLC_1CUDPA20110107_211934_000060103098_00173_46308_1546.N1	07JAN2011 21:37:16	07JAN2011 22:47:31	0	35	31	0	0	1	0	0	
8	SCI_NLC_1CUDPA20110107_225948_000060093098_00174_46309_1548.N1	07JAN2011 23:17:30	08JAN2011 00:27:59	0	36	30	0	0	1	0	0	

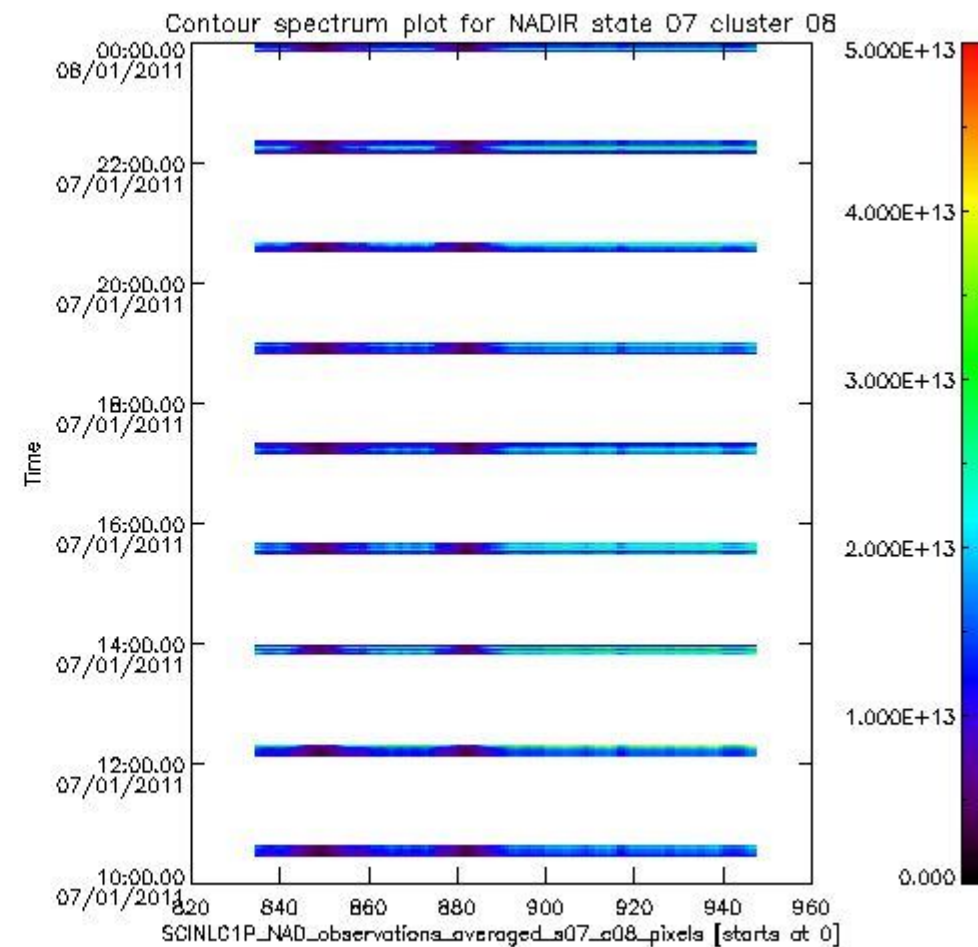
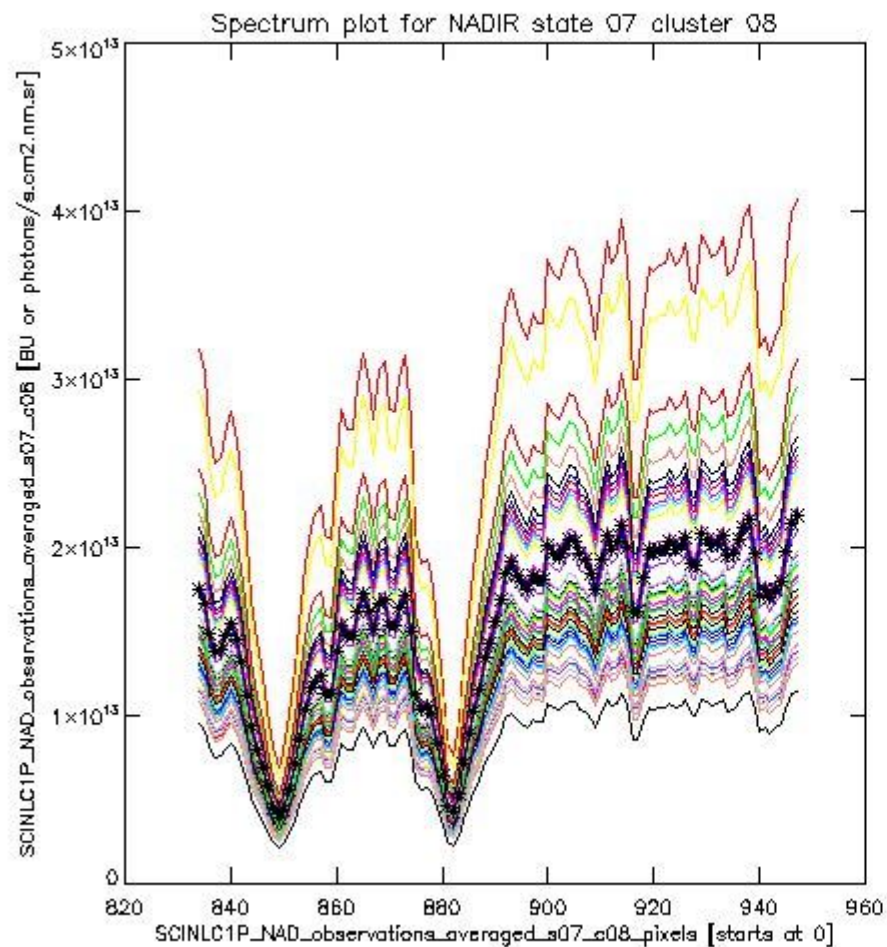
1.2 Source packet monitoring

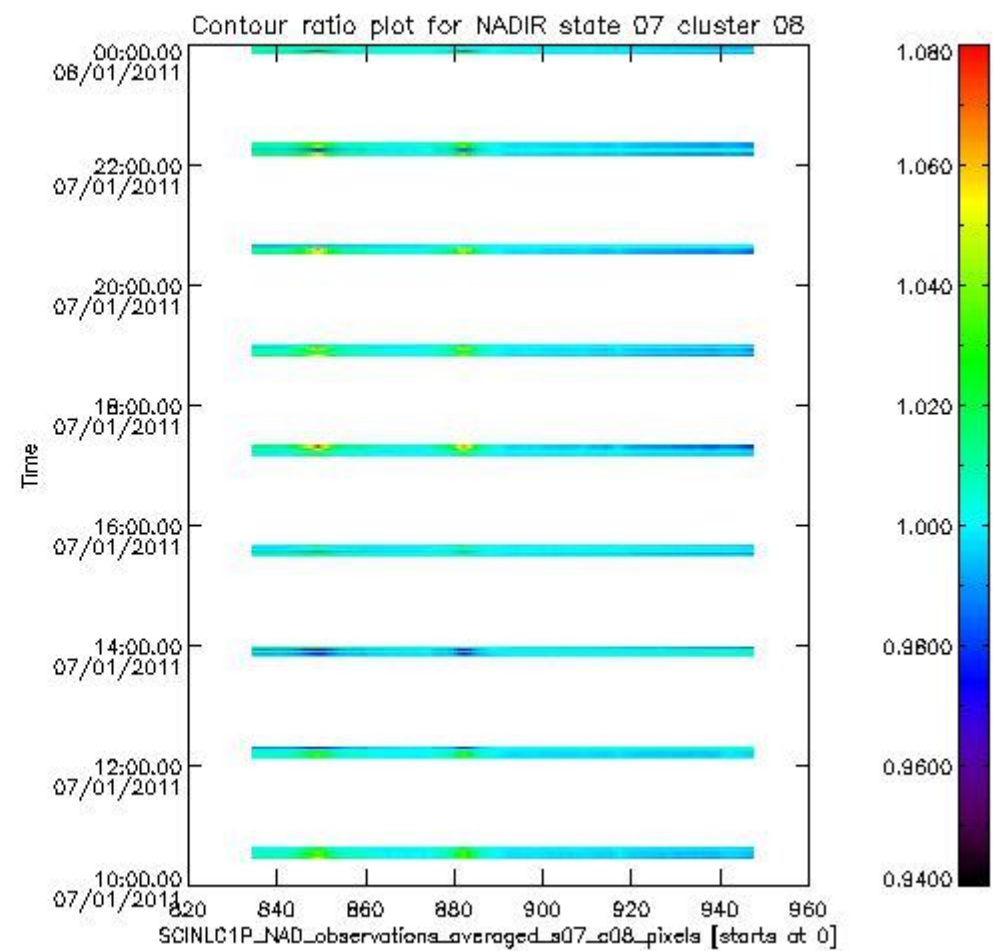
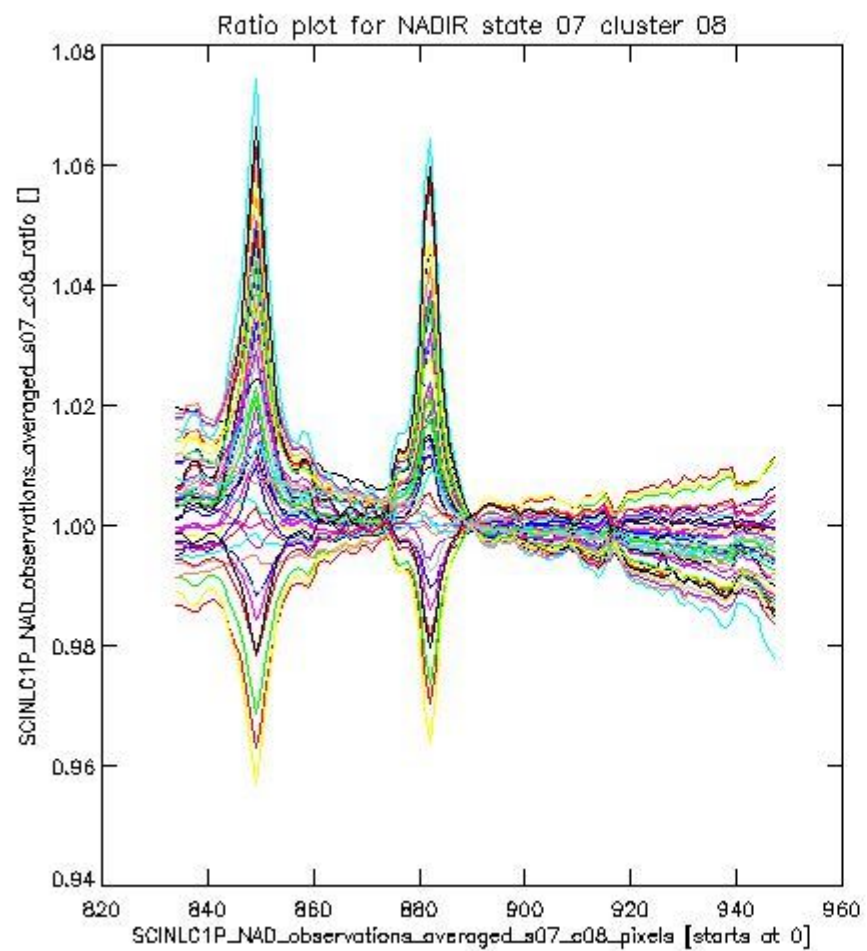
This section shows figures for each of the monitored source packet types listed in the Source Packet Summary section. For each mode-state-cluster(-height) combination the following plots are shown:

- 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	07JAN2011 10:28:51.135
Start time of last sample	07JAN2011 23:58:52.571
Reference period start time	08DEC2010 00:25:54.711
Reference period stop time	04JAN2011 10:48:01.864
Channel number	2
First pixel number (starts at 0)	834
Last pixel number (starts at 0)	947

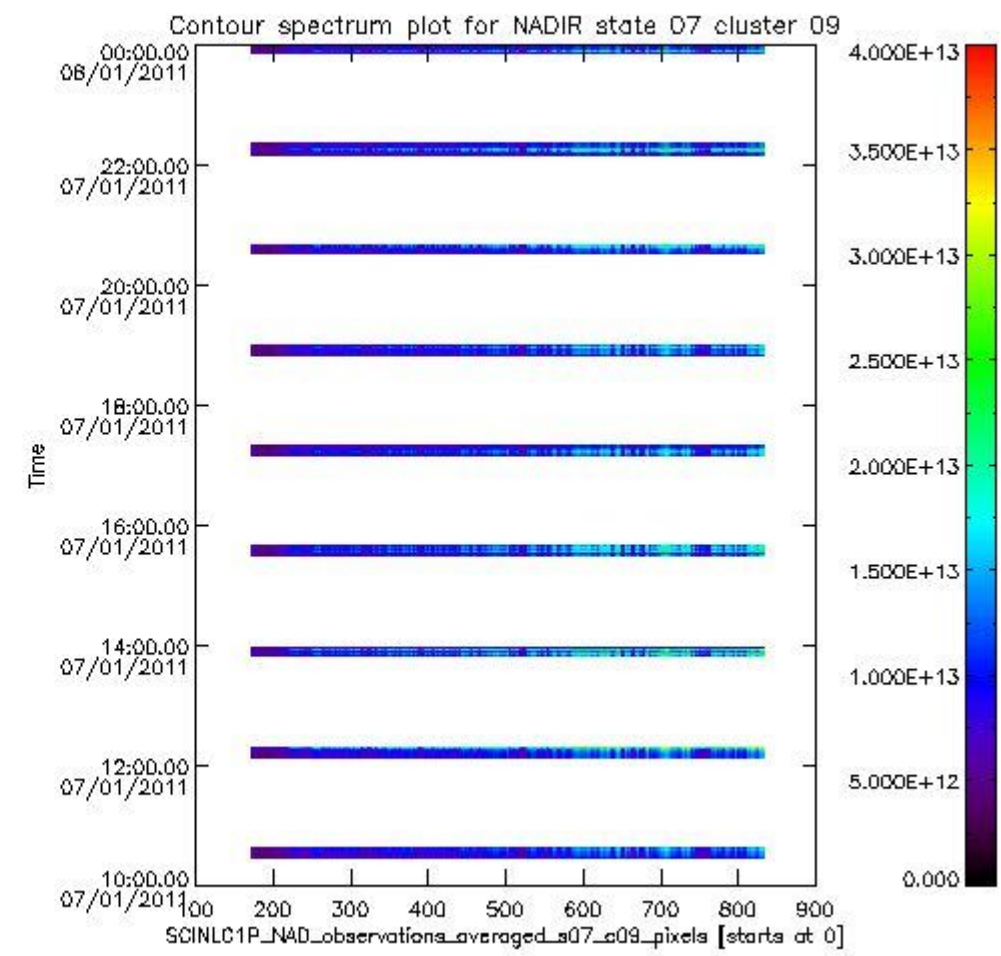
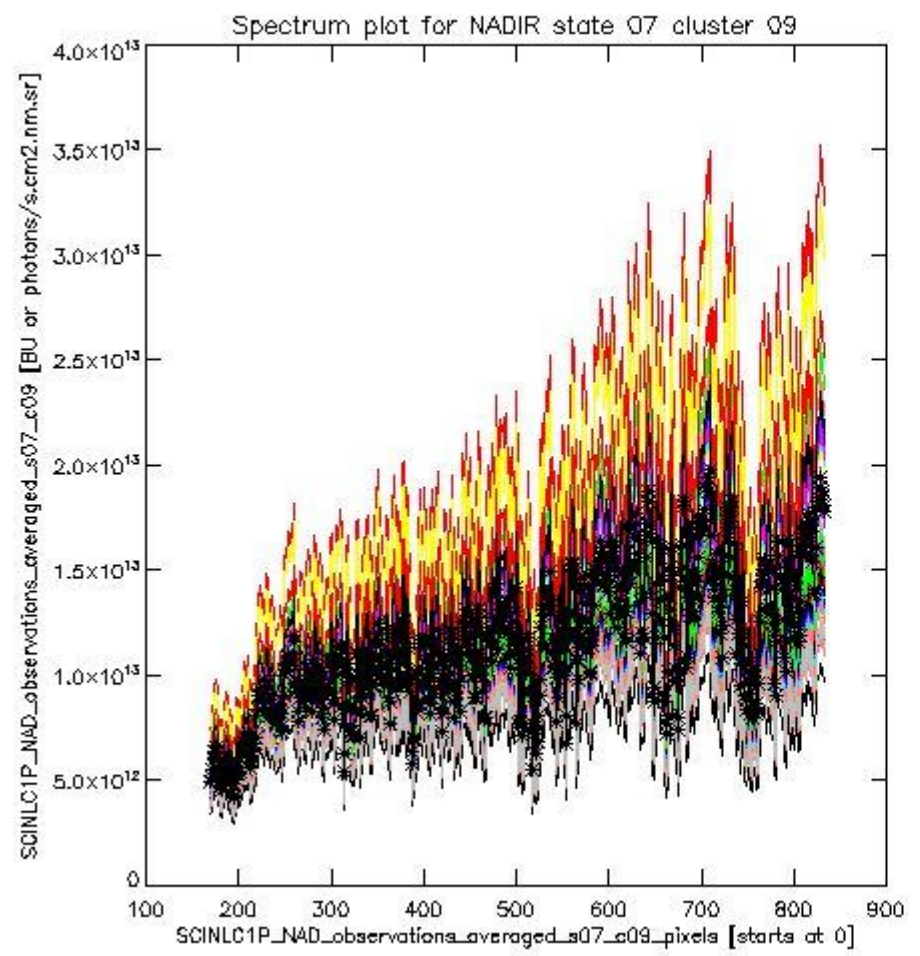




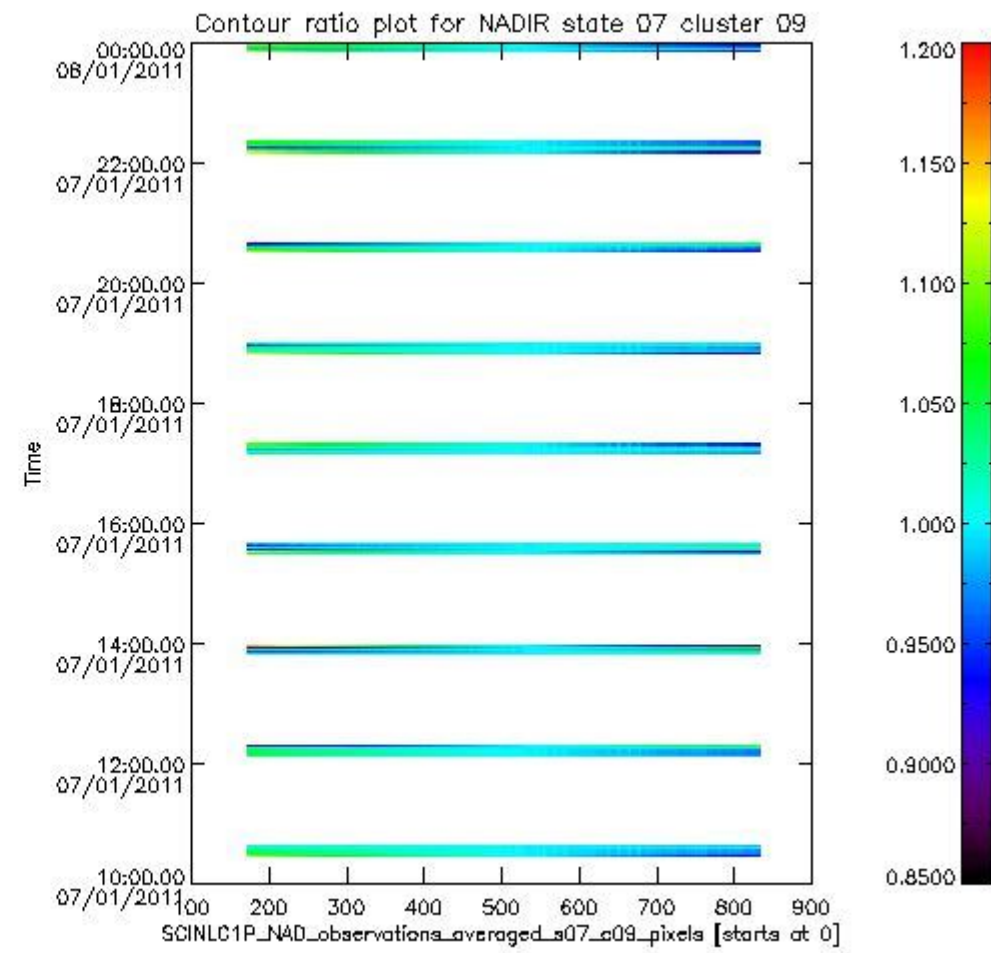
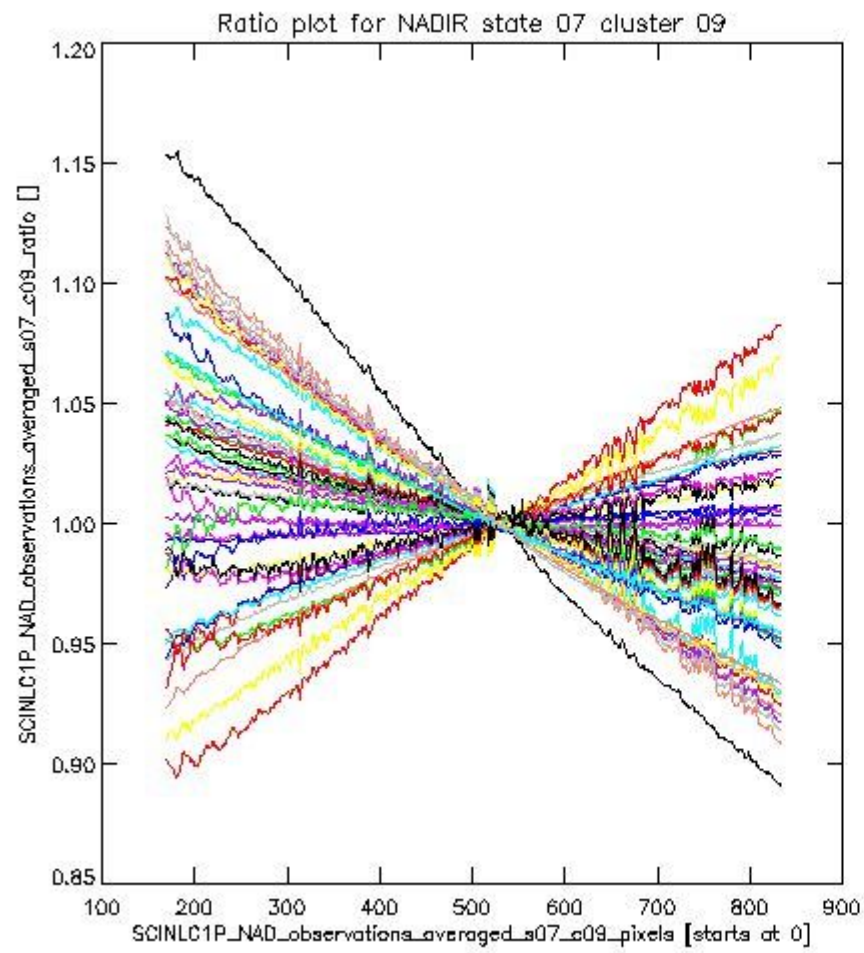
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110107_1.PNG

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	07JAN2011 10:28:51.135
Start time of last sample	07JAN2011 23:58:52.571
Reference period start time	08DEC2010 00:25:54.711
Reference period stop time	04JAN2011 10:48:01.864
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	833



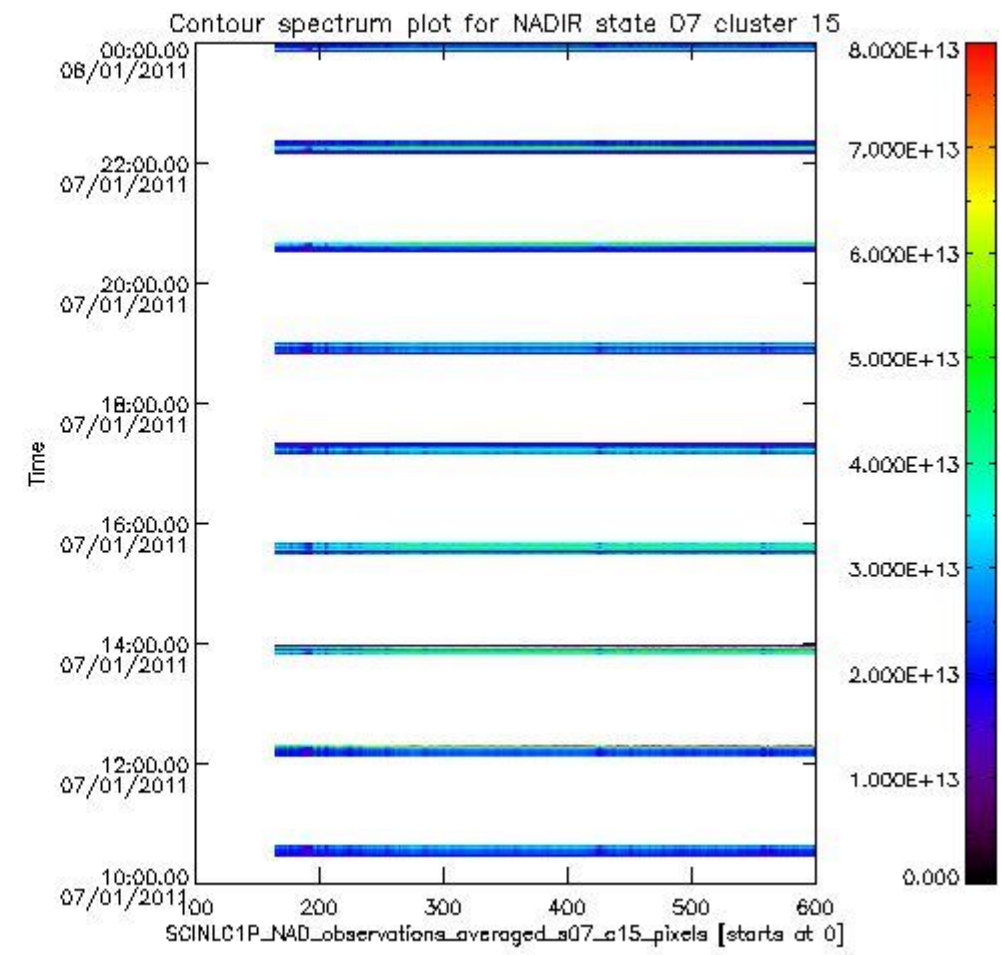
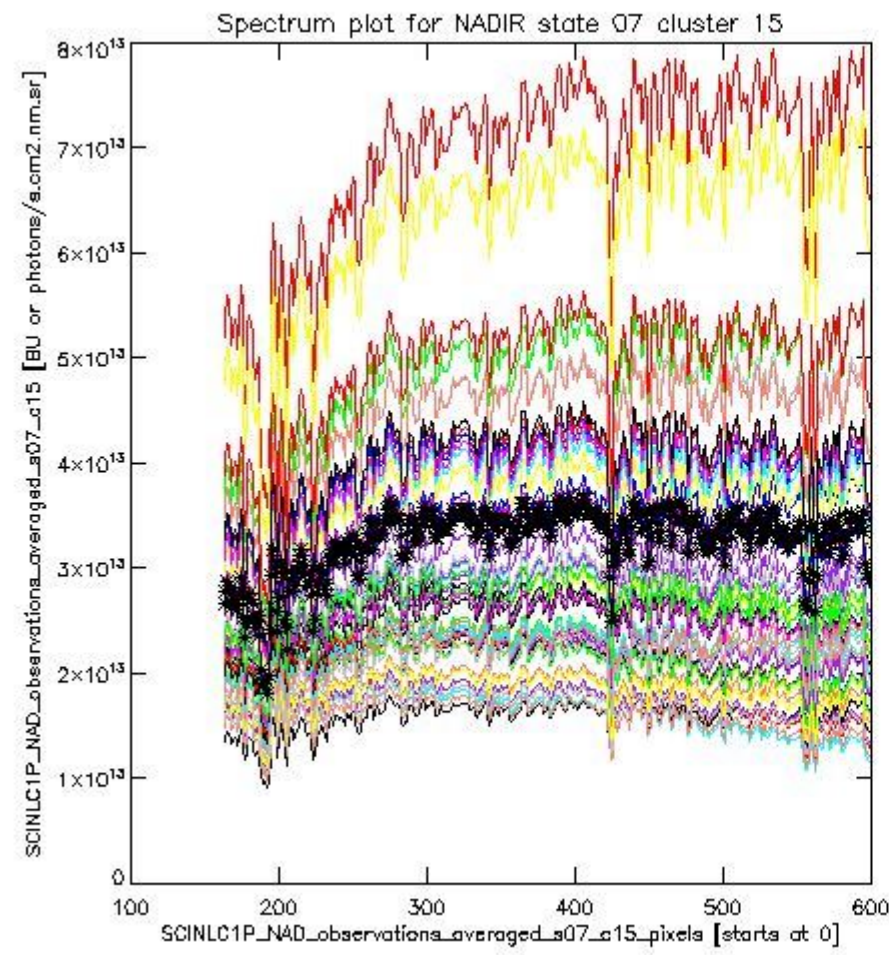
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110107_2.PNG



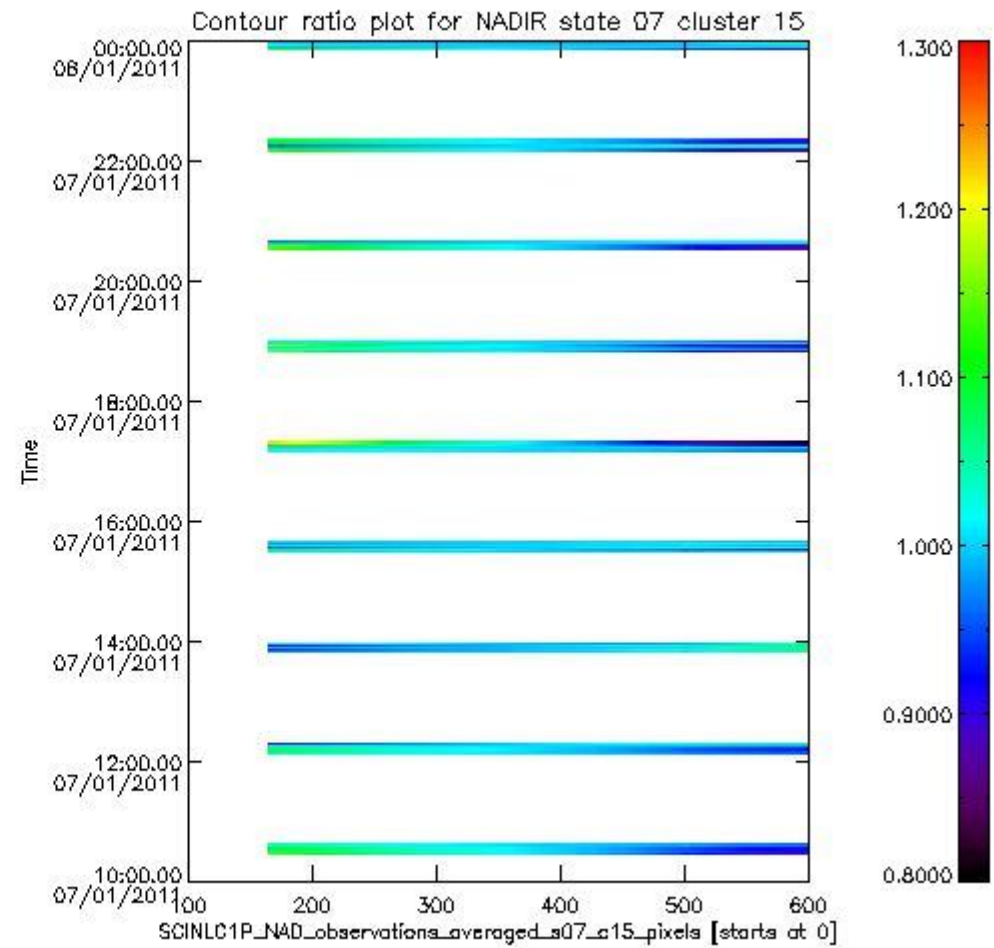
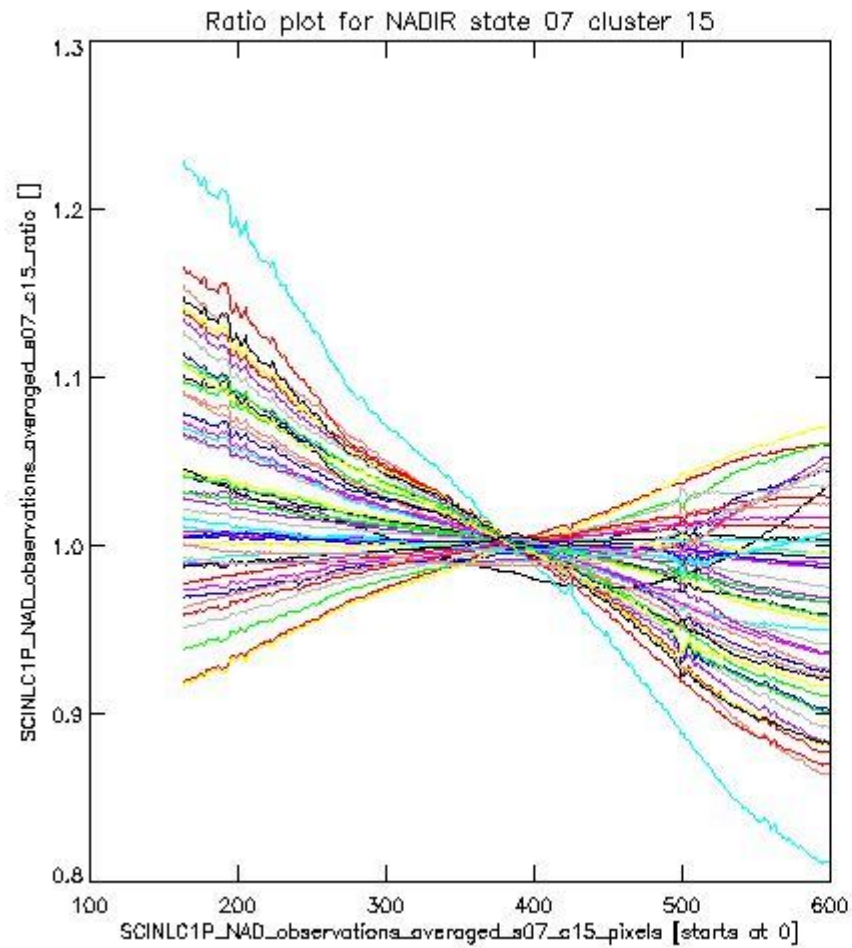
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110107_3.PNG

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	07JAN2011 10:28:51.135
Start time of last sample	07JAN2011 23:58:52.571
Reference period start time	08DEC2010 00:25:54.711
Reference period stop time	04JAN2011 10:48:01.864
Channel number	3
First pixel number (starts at 0)	163
Last pixel number (starts at 0)	598



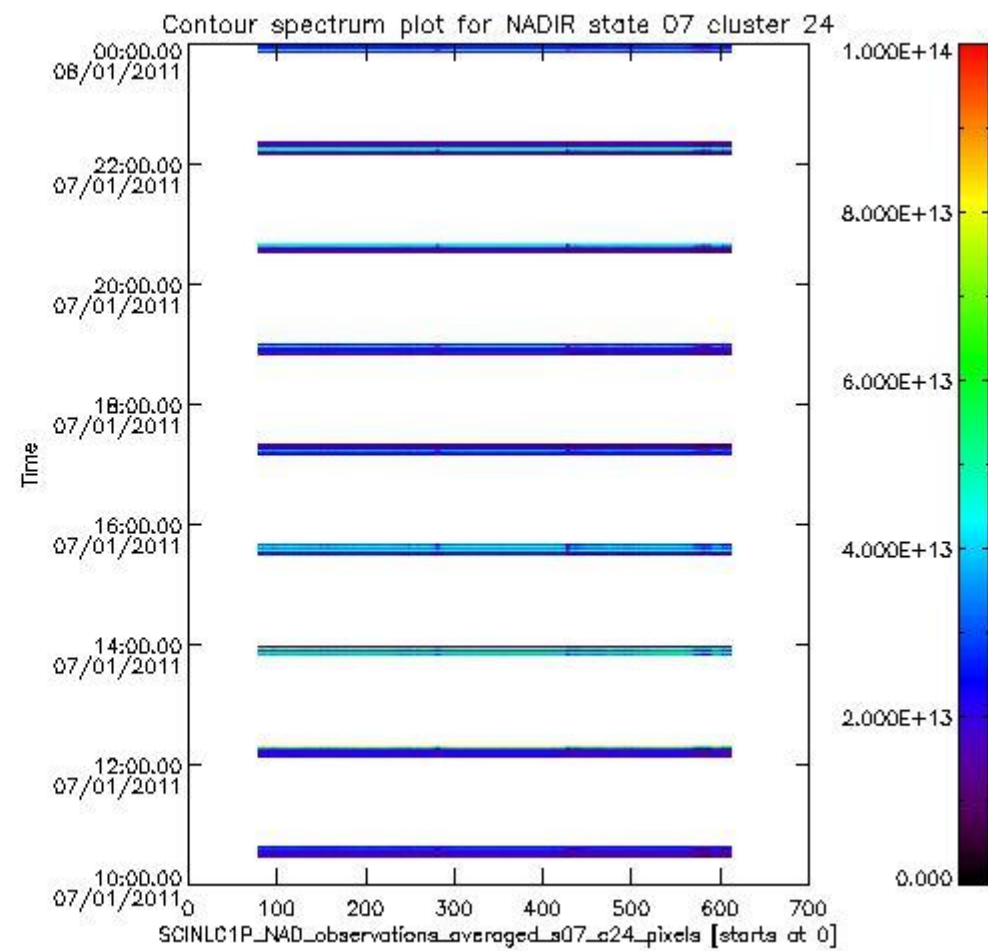
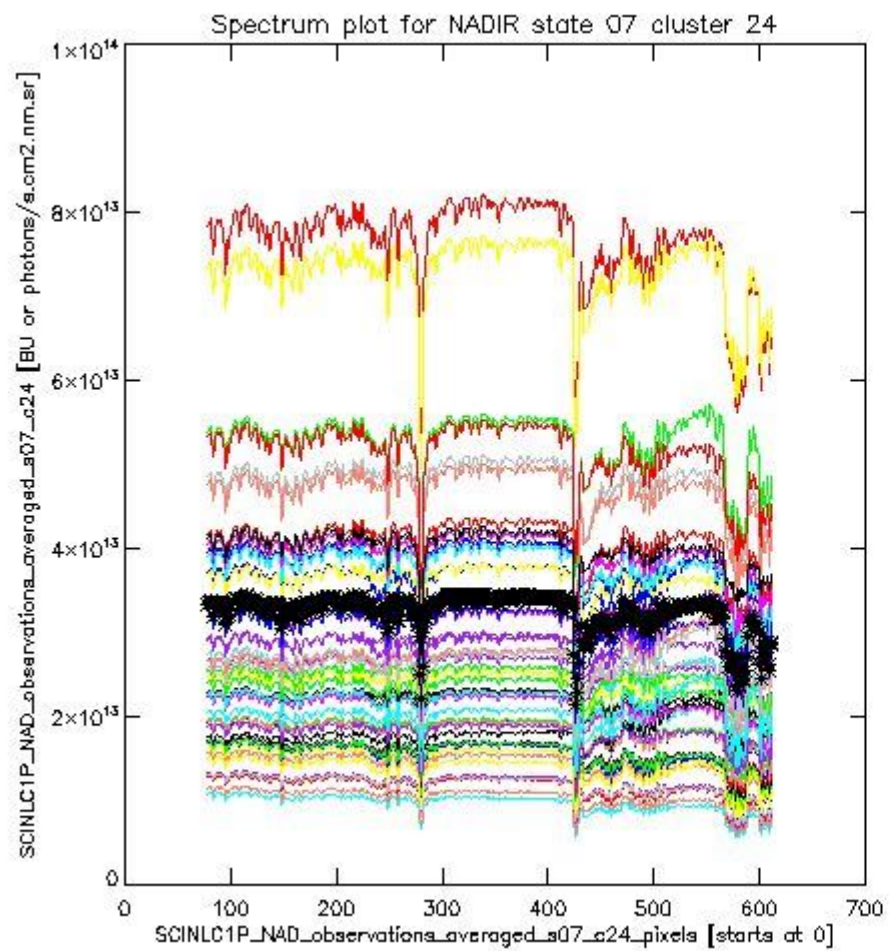
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110107_4.PNG



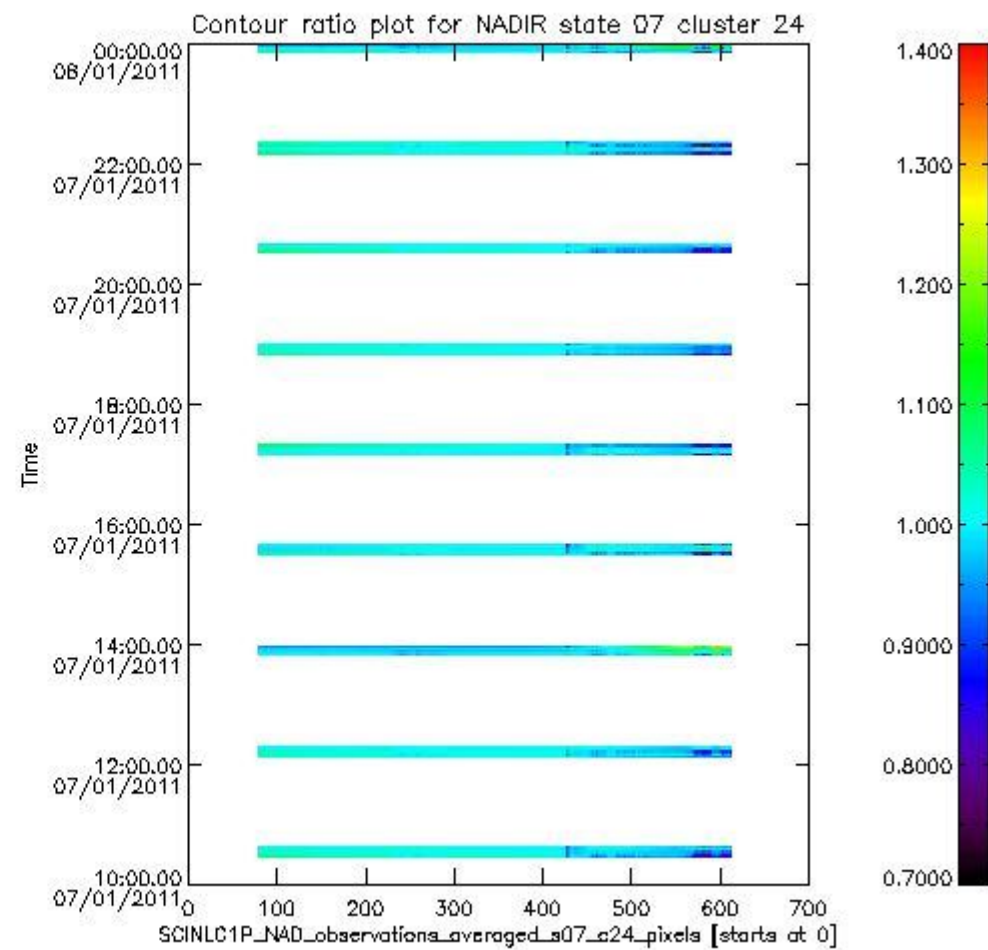
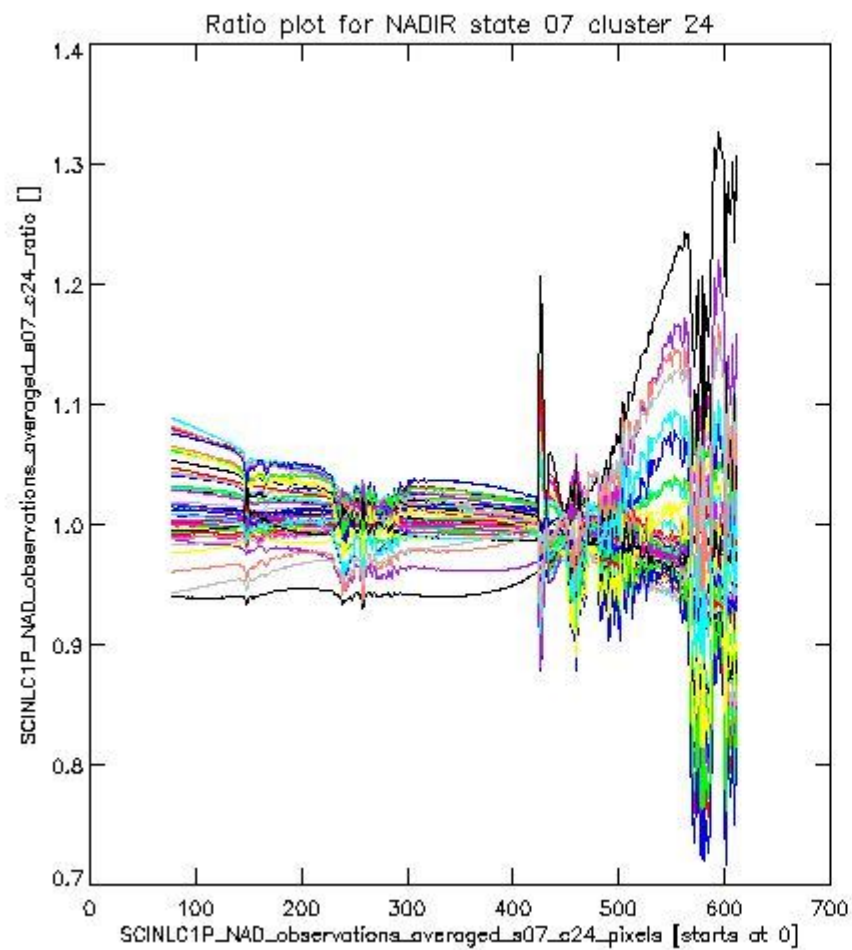
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110107_5.PNG

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	07JAN2011 10:28:51.135
Start time of last sample	07JAN2011 23:58:52.571
Reference period start time	08DEC2010 00:25:54.711
Reference period stop time	04JAN2011 10:48:01.864
Channel number	4
First pixel number (starts at 0)	78
Last pixel number (starts at 0)	612



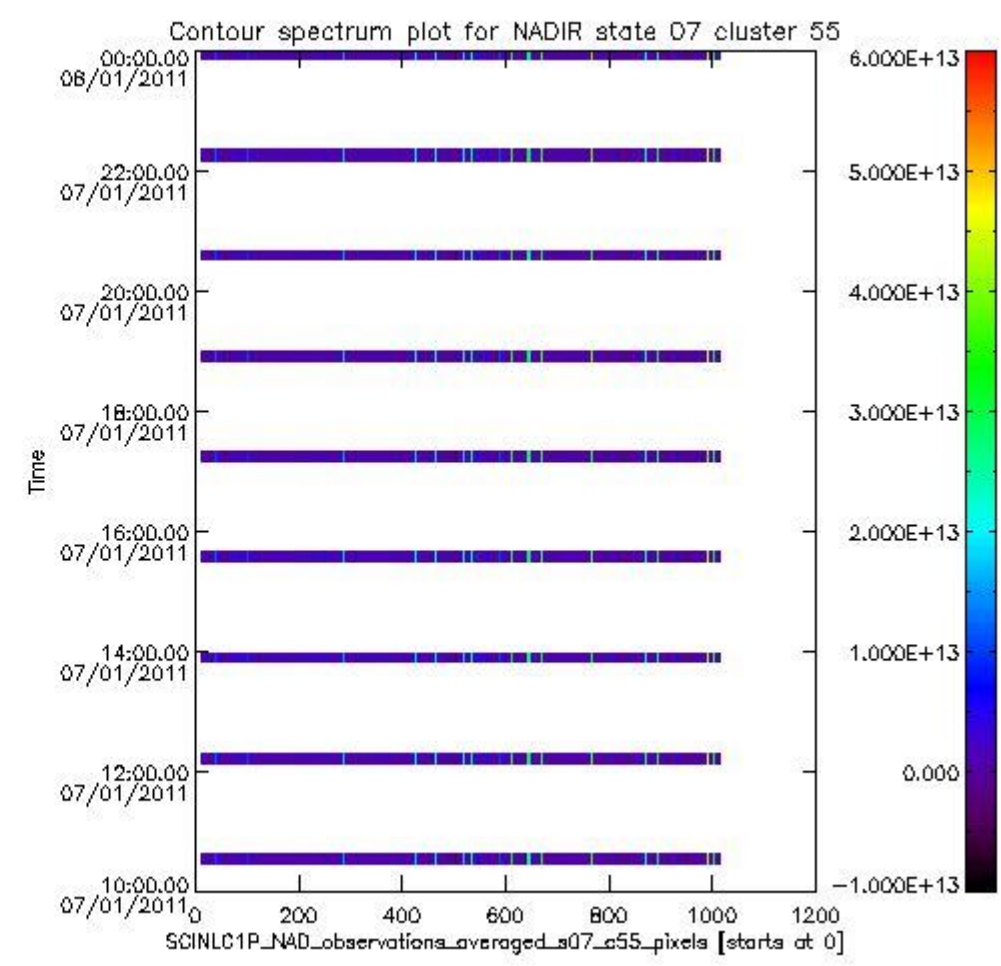
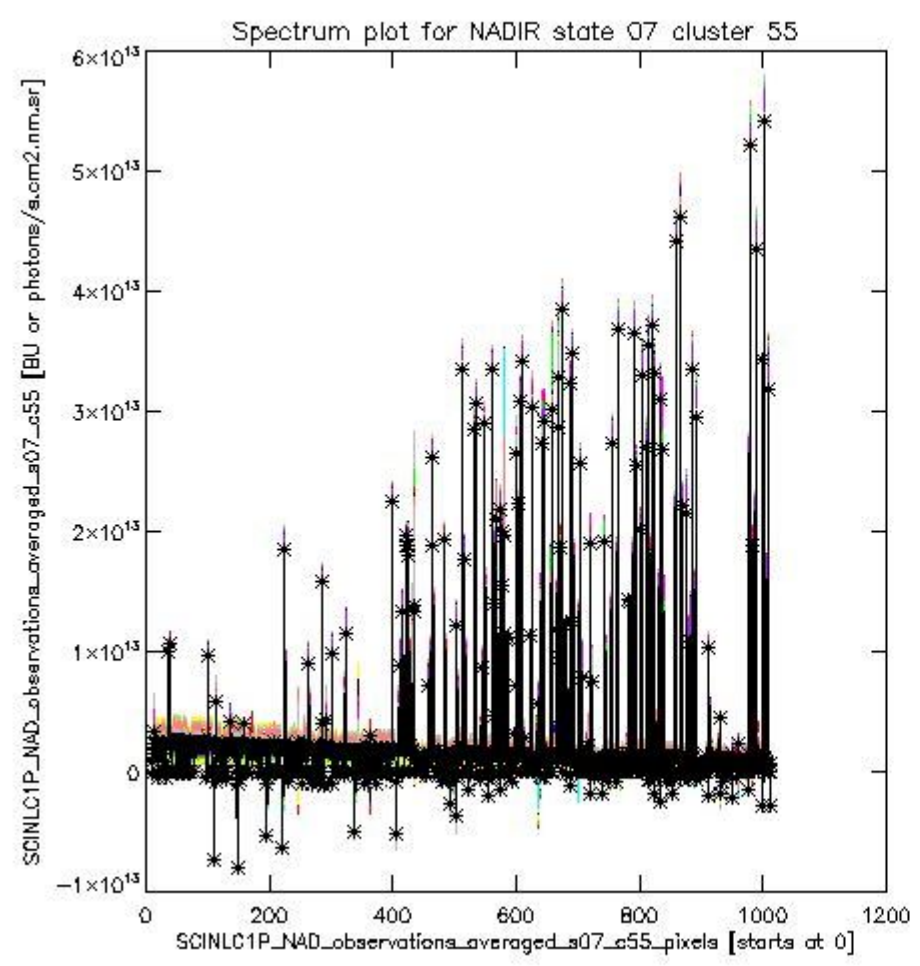
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110107_6.PNG



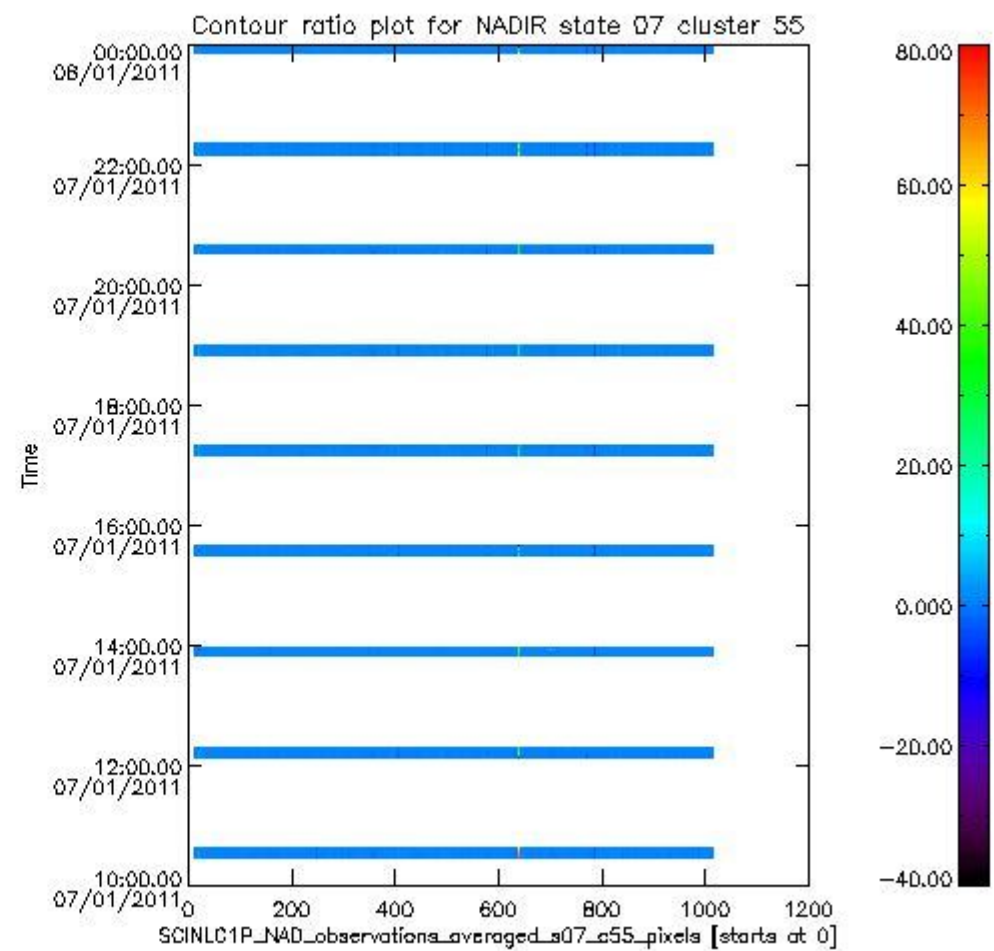
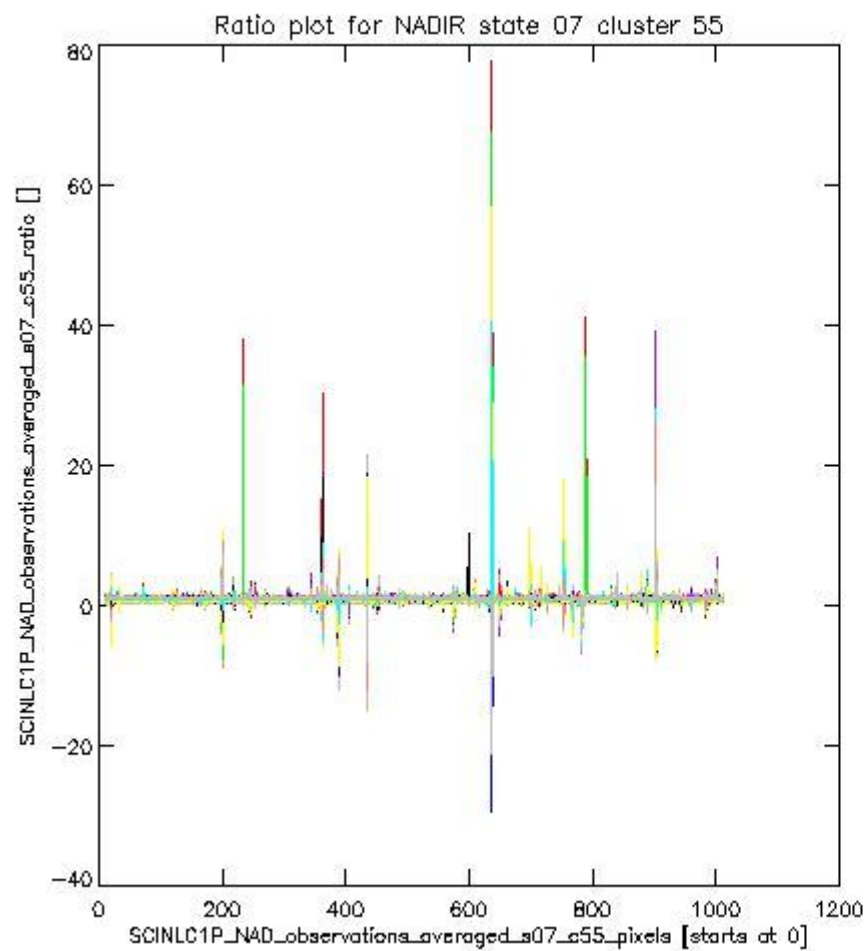
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110107_7.PNG

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	07JAN2011 10:28:51.135
Start time of last sample	07JAN2011 23:58:52.571
Reference period start time	08DEC2010 00:25:54.711
Reference period stop time	04JAN2011 10:48:01.864
Channel number	8
First pixel number (starts at 0)	10
Last pixel number (starts at 0)	1013



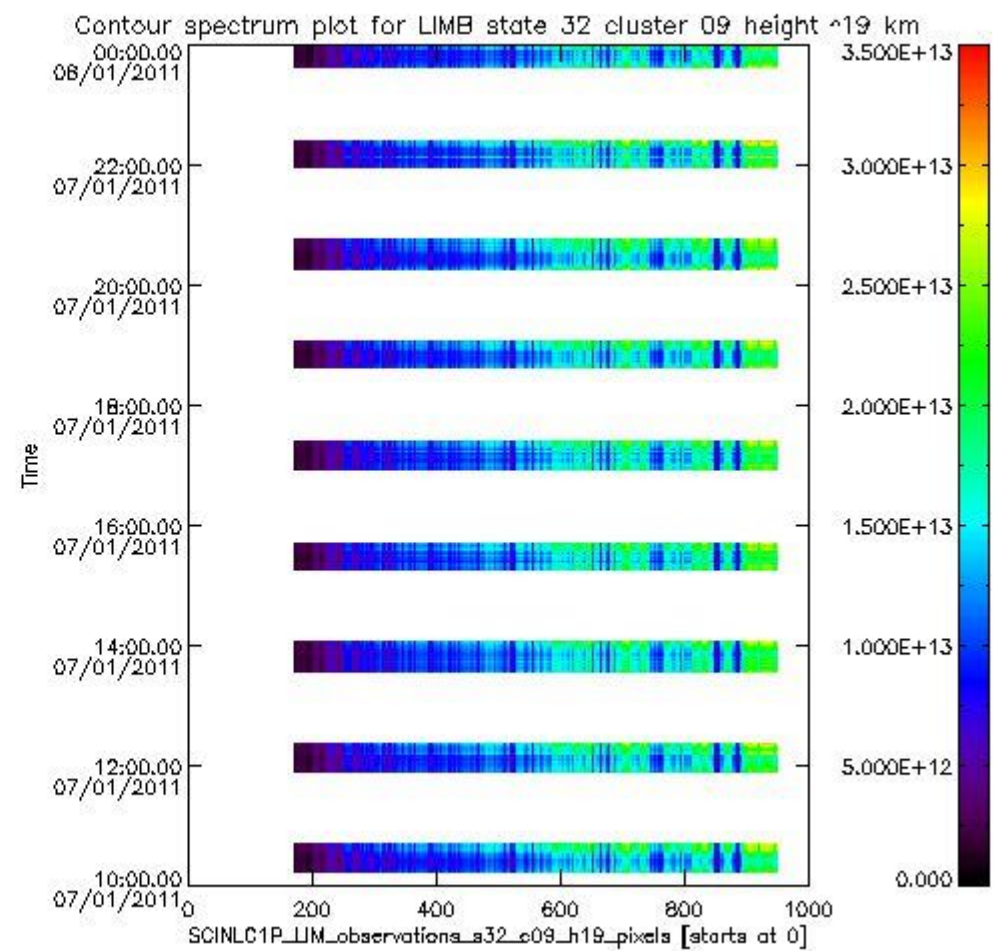
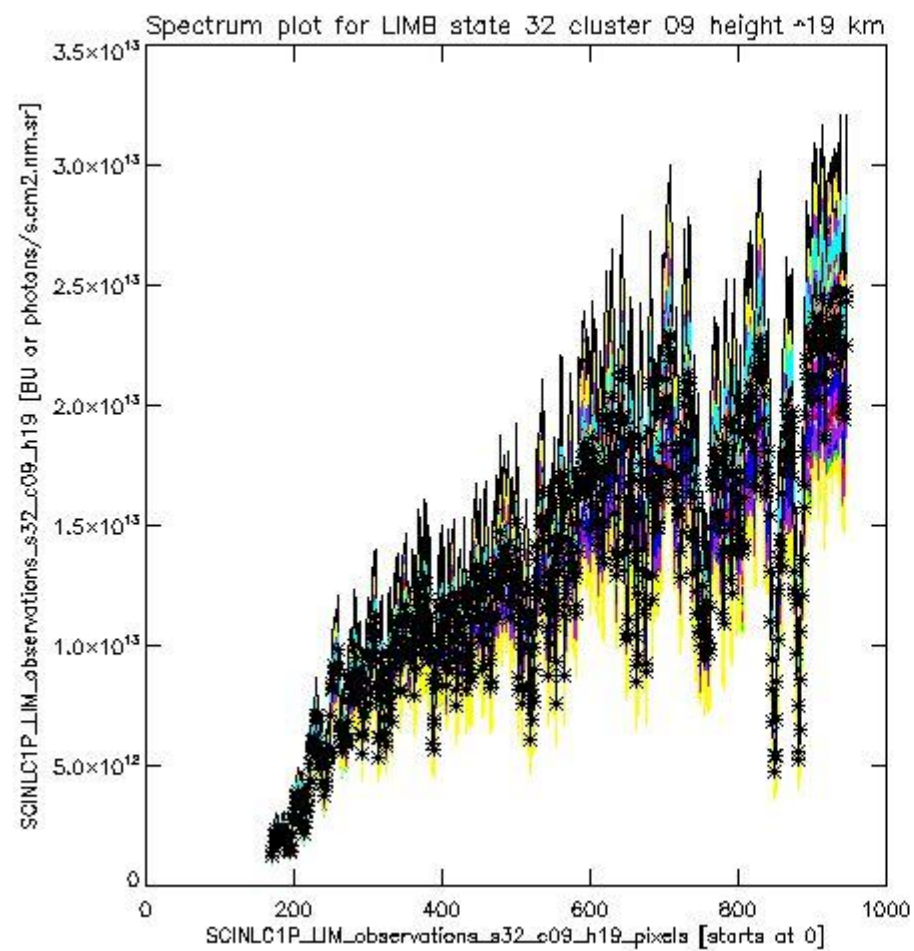
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110107_8.PNG



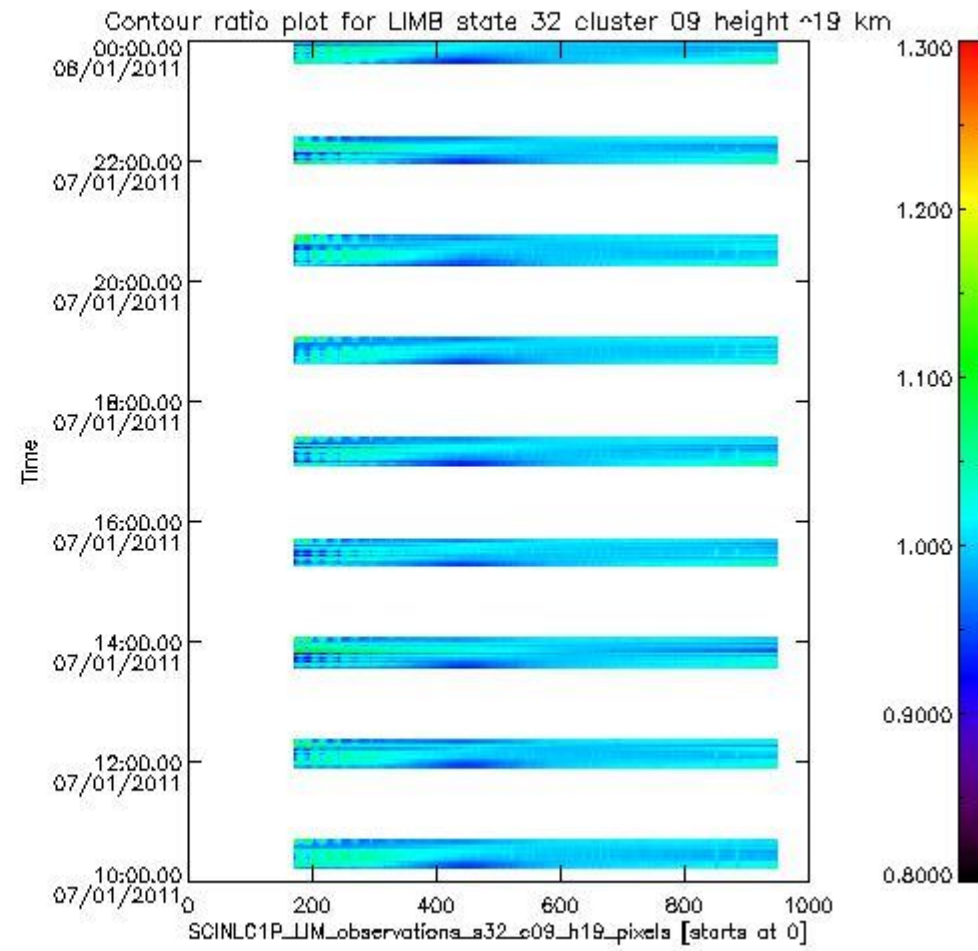
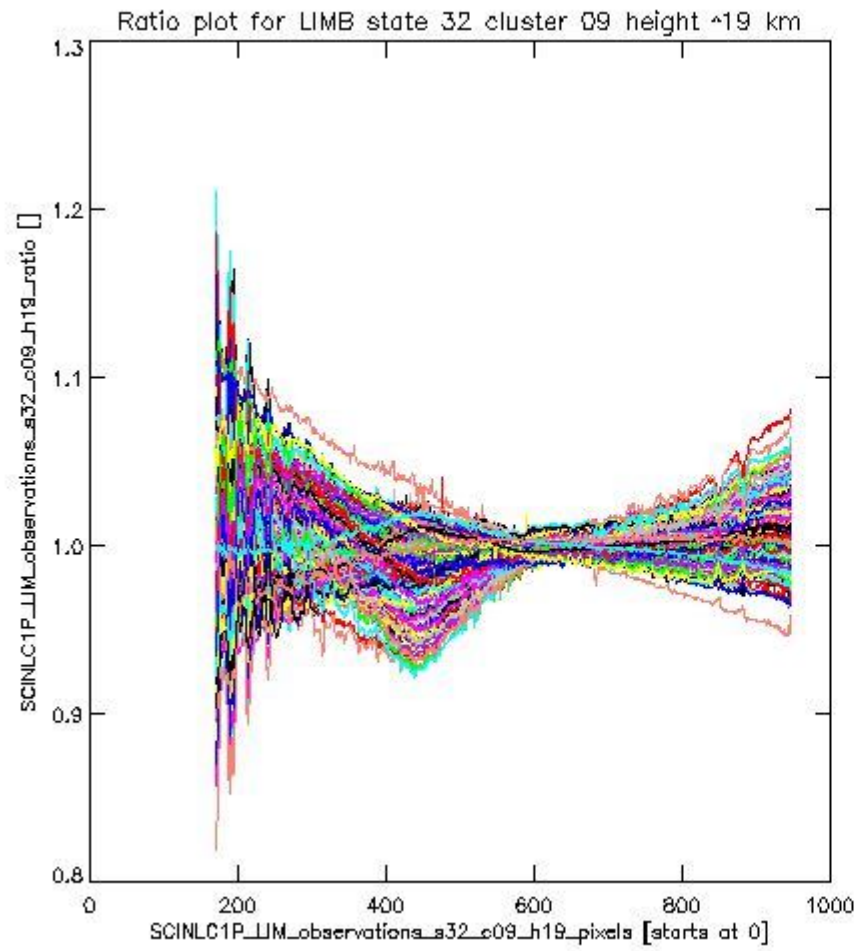
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110107_9.PNG

1.2.6 LIMB state 32 cluster 09 height ~19 km The data for the analysis of LIMB state 32 cluster 09 height ~19 km have the following characteristics:

Item	Value
Start time of first sample	07JAN2011 10:13:37.752
Start time of last sample	07JAN2011 23:57:58.392
Reference period start time	08DEC2010 00:12:44.070
Reference period stop time	04JAN2011 10:51:13.165
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	947



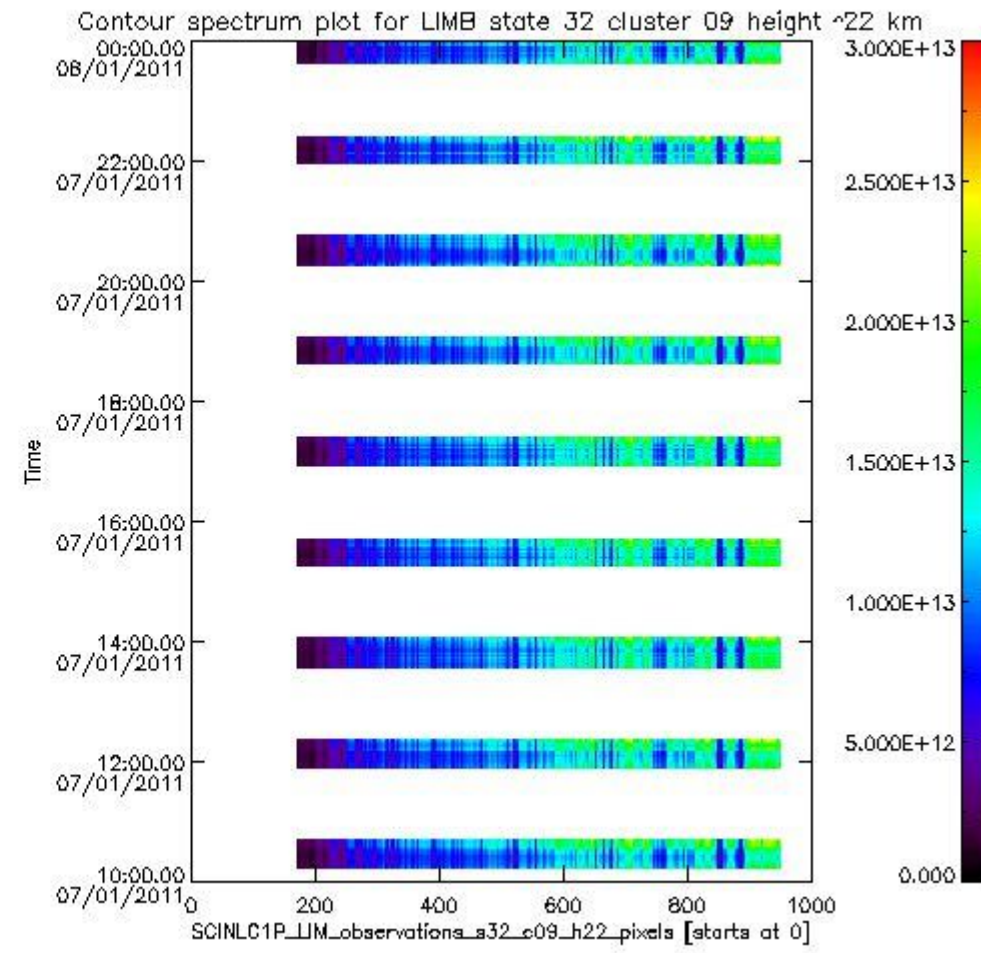
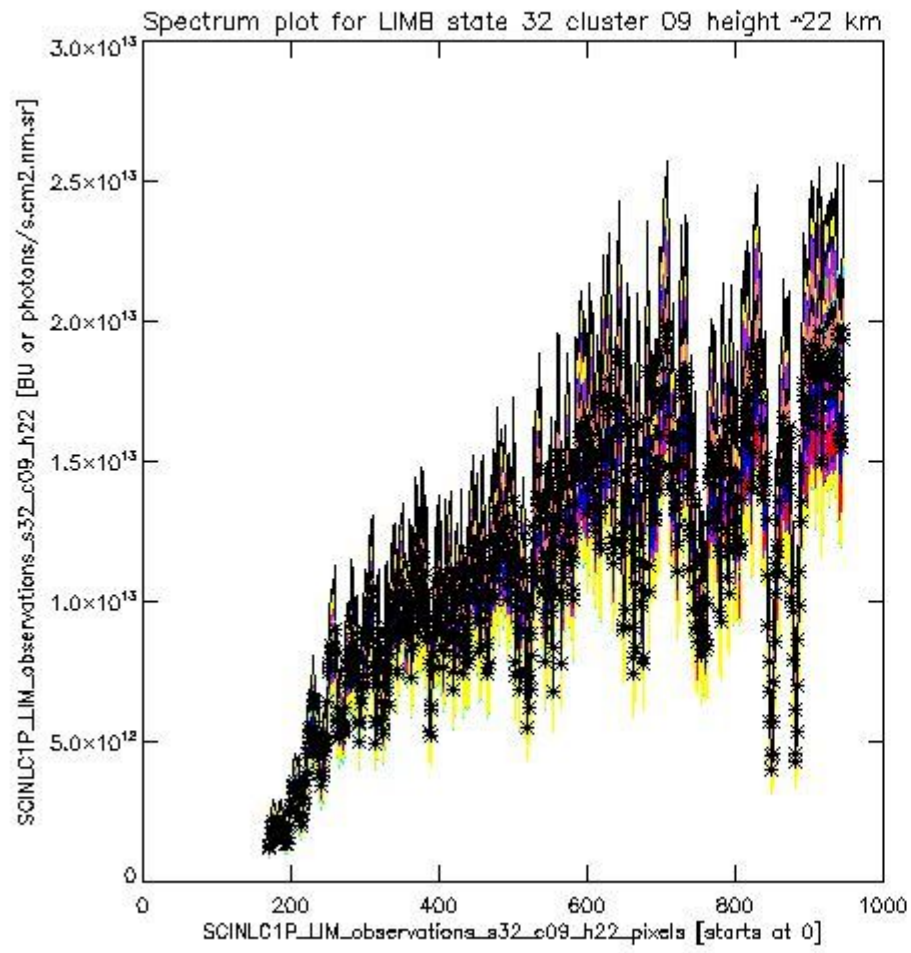
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110107_10.PNG



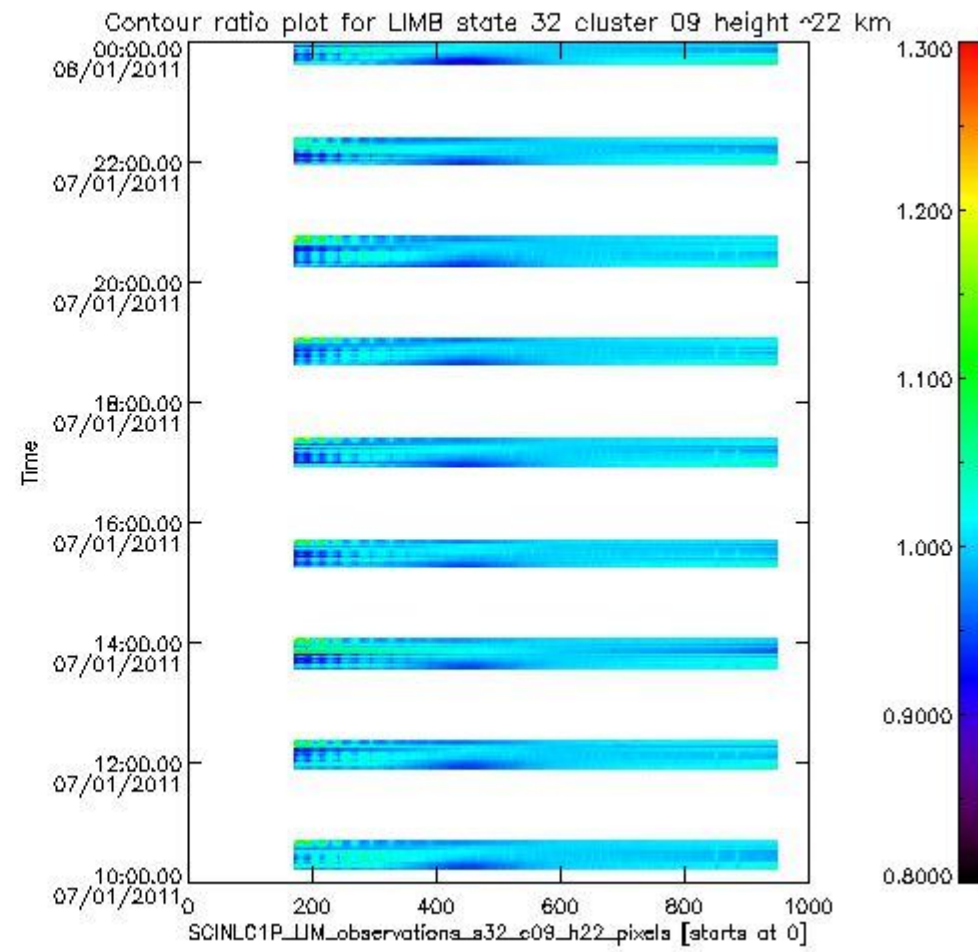
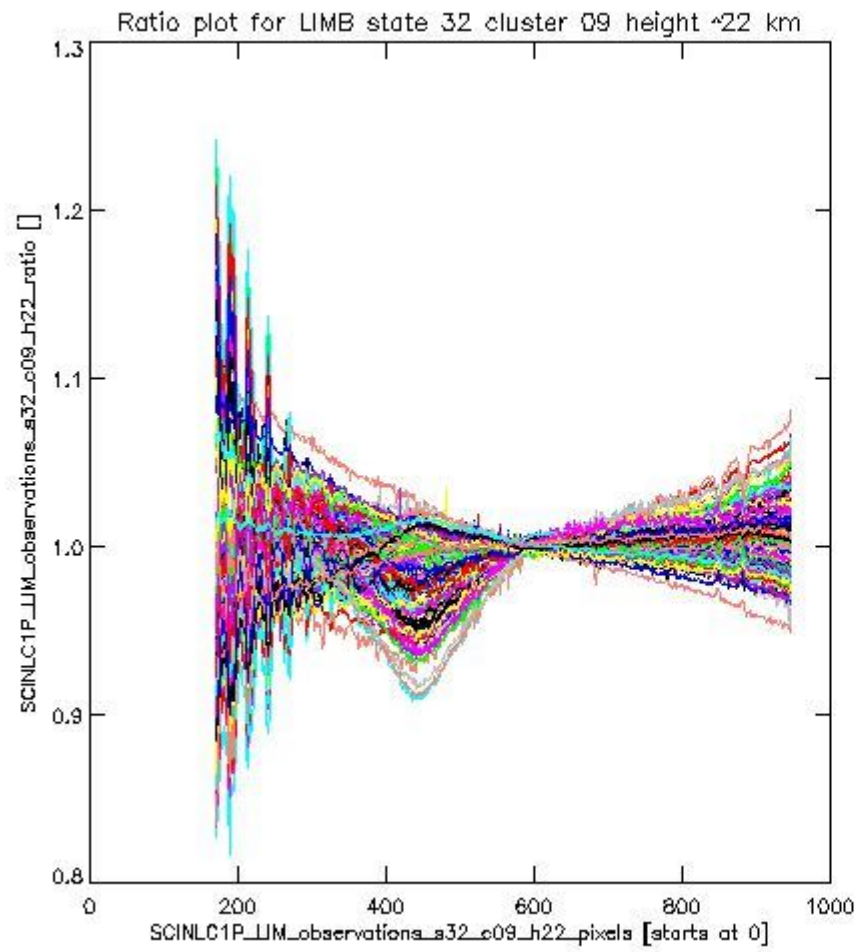
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110107_11.PNG

1.2.7 LIMB state 32 cluster 09 height ~22 km The data for the analysis of LIMB state 32 cluster 09 height ~22 km have the following characteristics:

Item	Value
Start time of first sample	07JAN2011 10:13:37.752
Start time of last sample	07JAN2011 23:57:58.392
Reference period start time	08DEC2010 00:12:44.070
Reference period stop time	04JAN2011 10:51:13.165
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	947



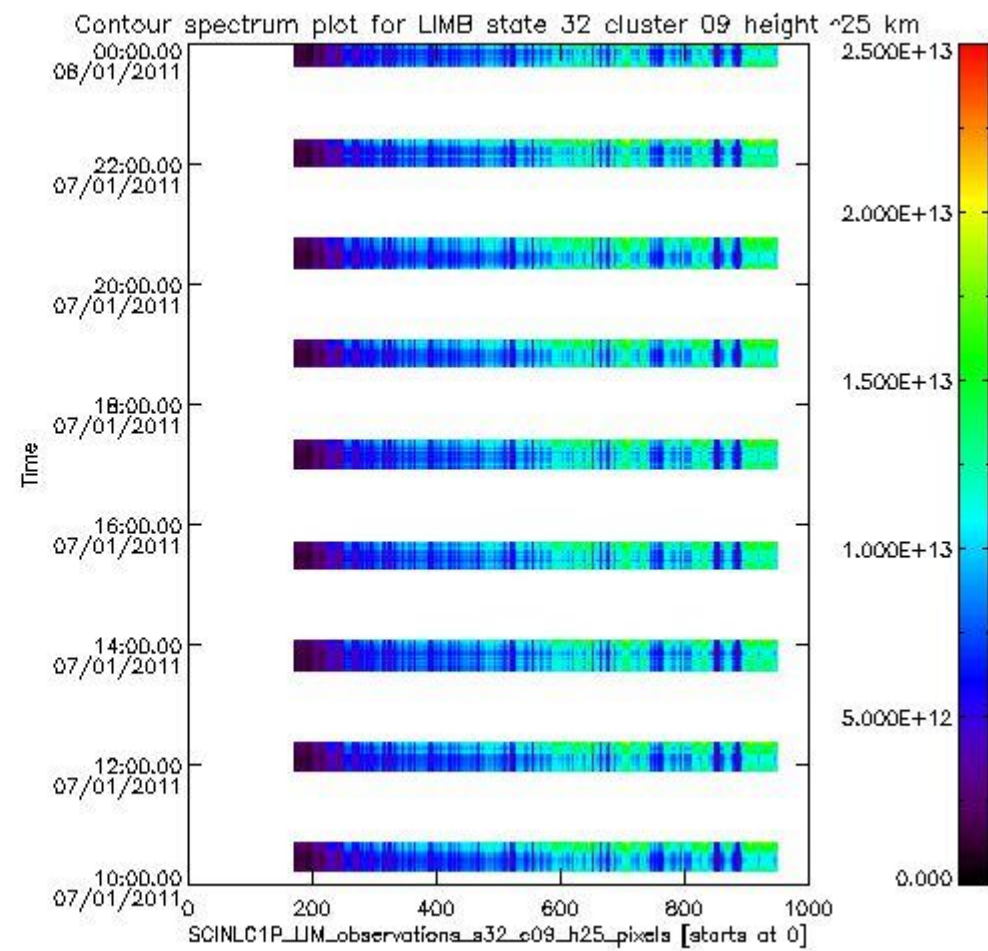
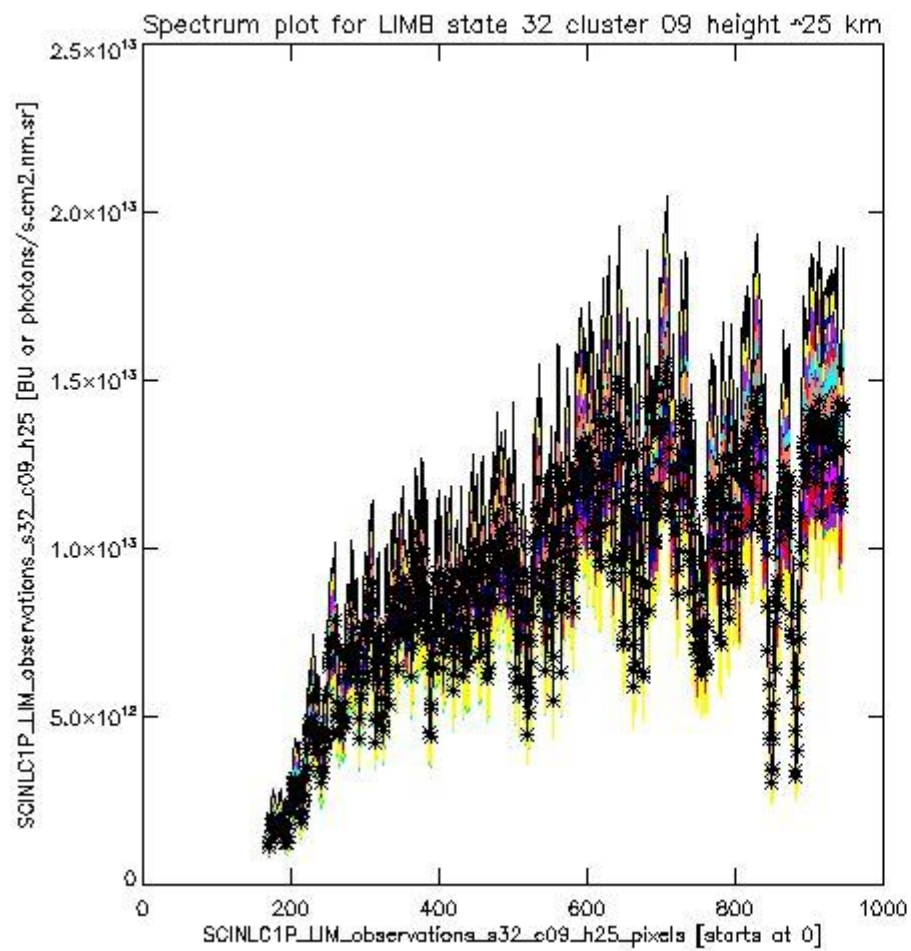
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110107_12.PNG



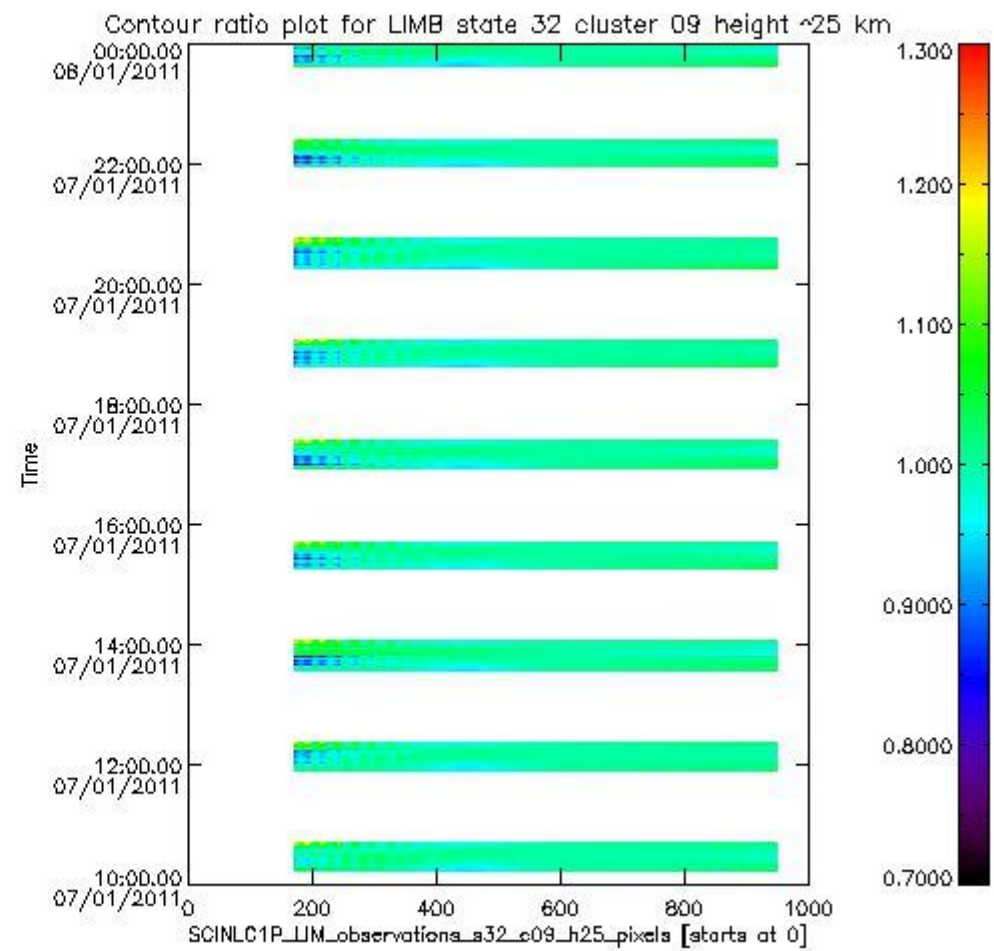
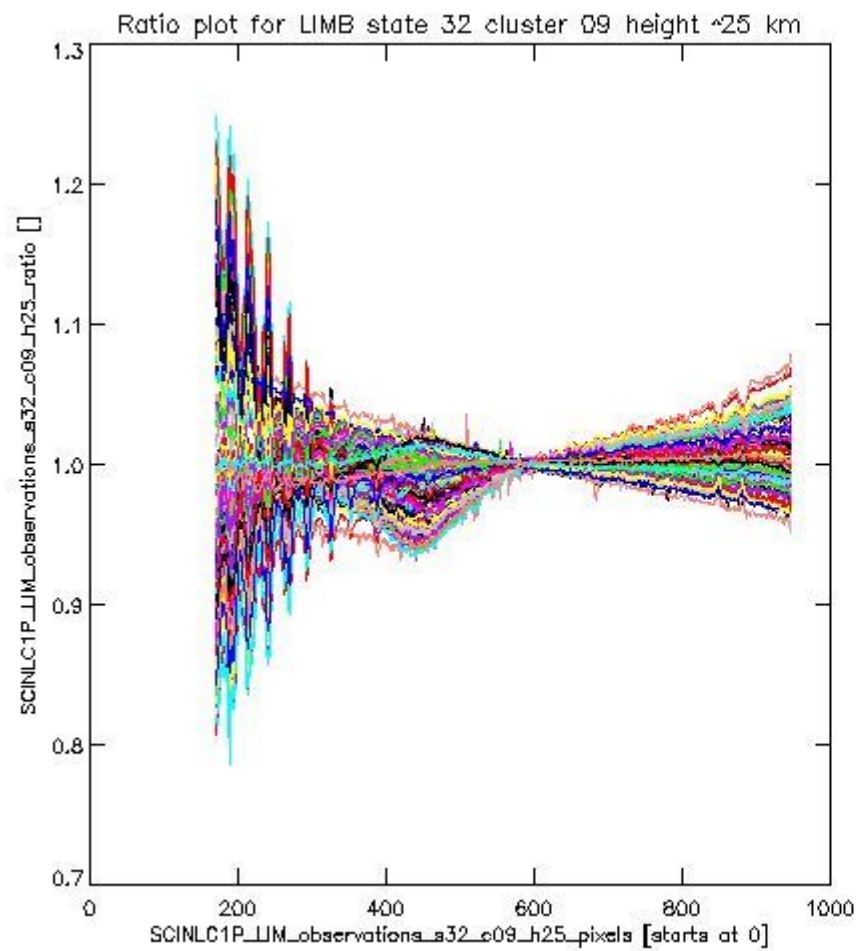
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110107_13.PNG

1.2.8 LIMB state 32 cluster 09 height ~25 km The data for the analysis of LIMB state 32 cluster 09 height ~25 km have the following characteristics:

Item	Value
Start time of first sample	07JAN2011 10:13:37.752
Start time of last sample	07JAN2011 23:57:58.392
Reference period start time	08DEC2010 00:12:44.070
Reference period stop time	04JAN2011 10:51:13.165
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	947



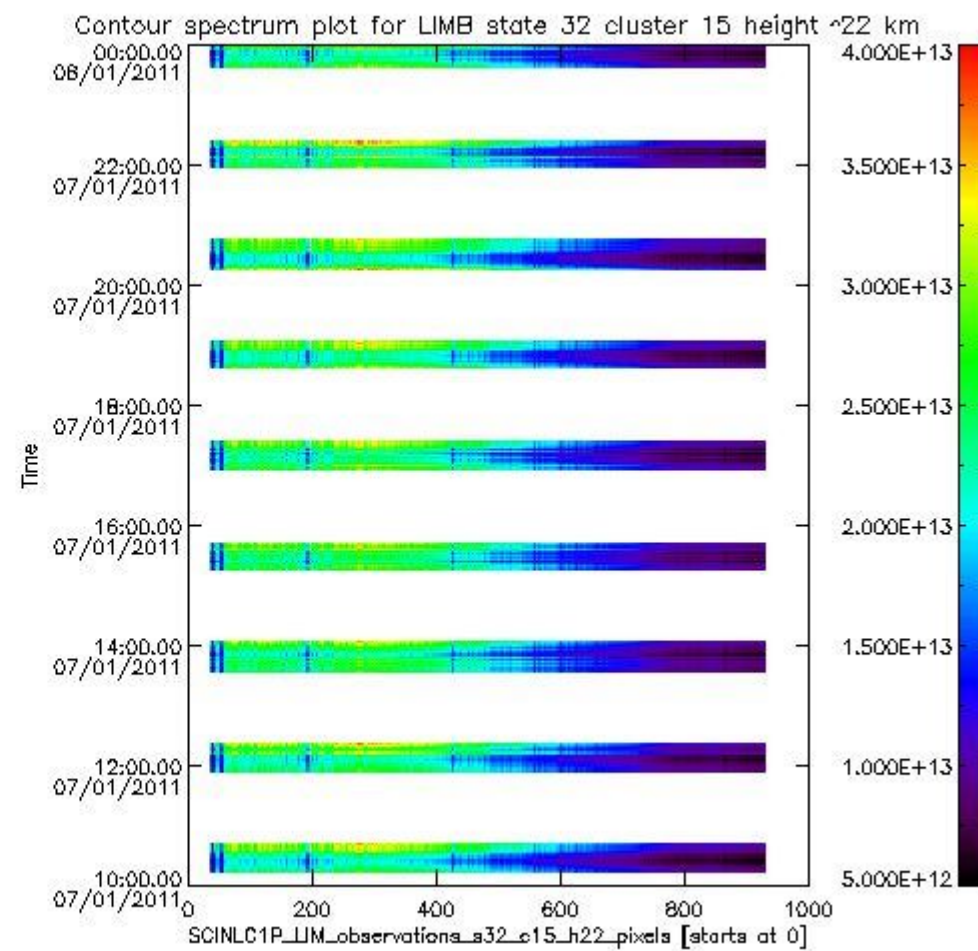
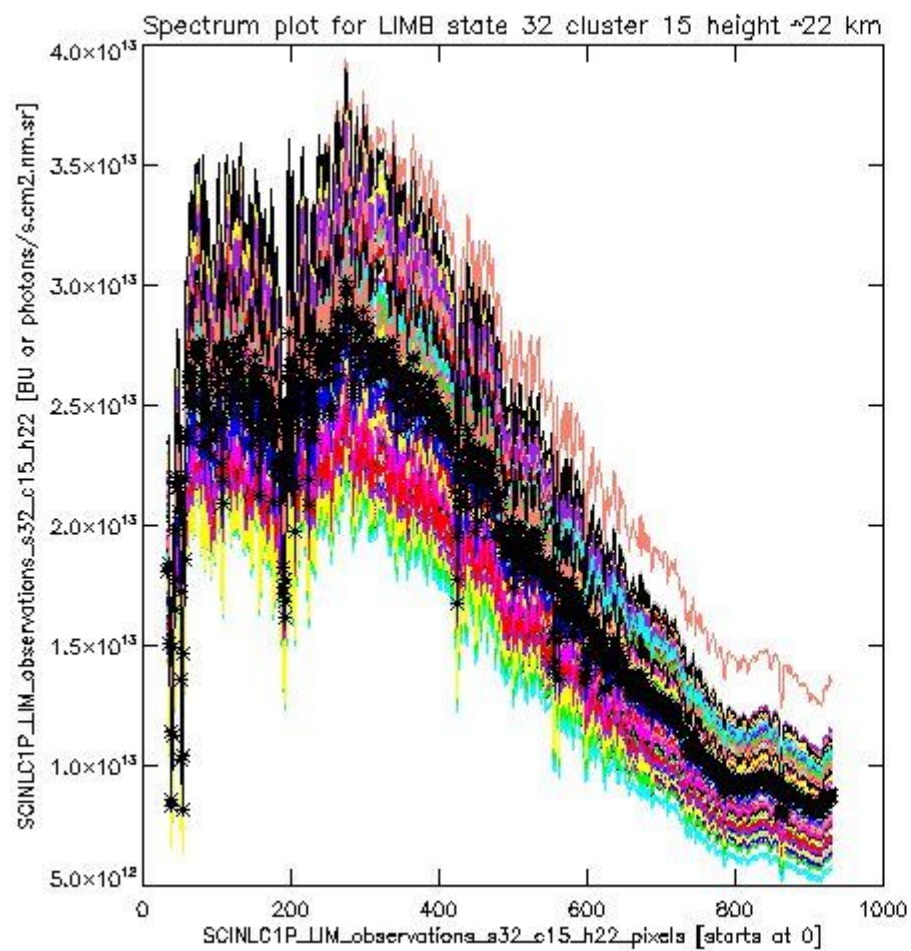
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110107_14.PNG



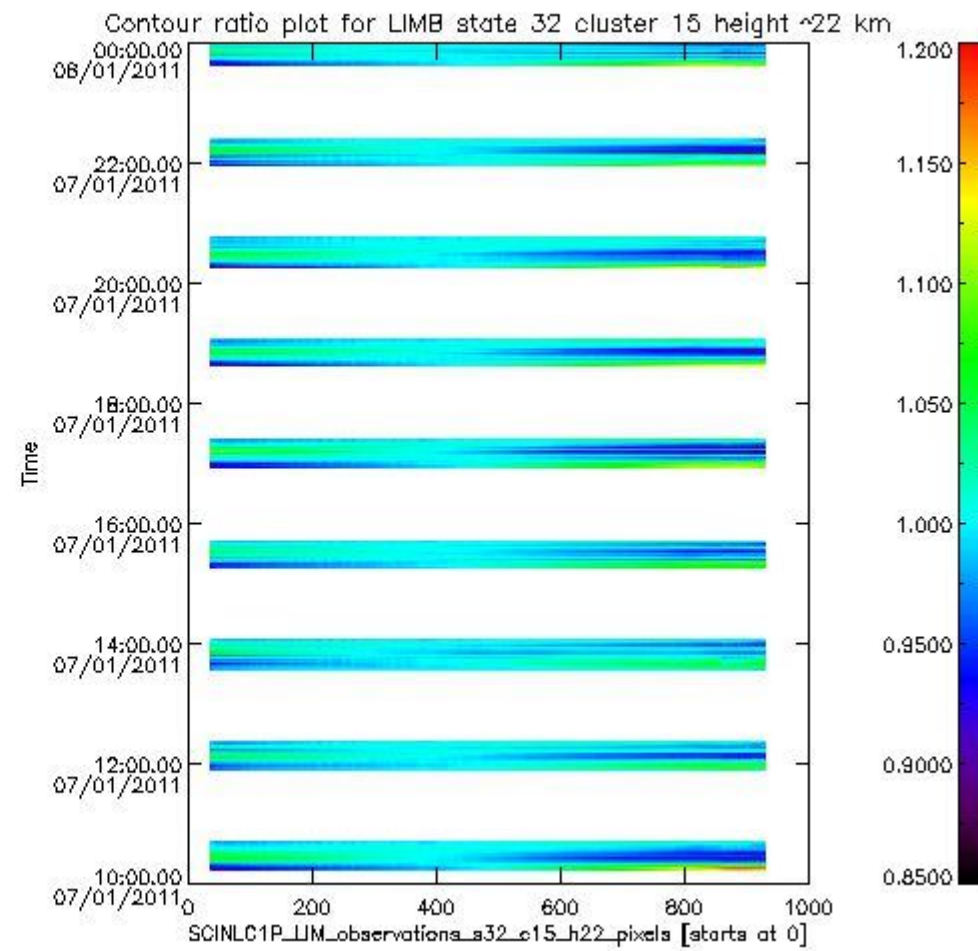
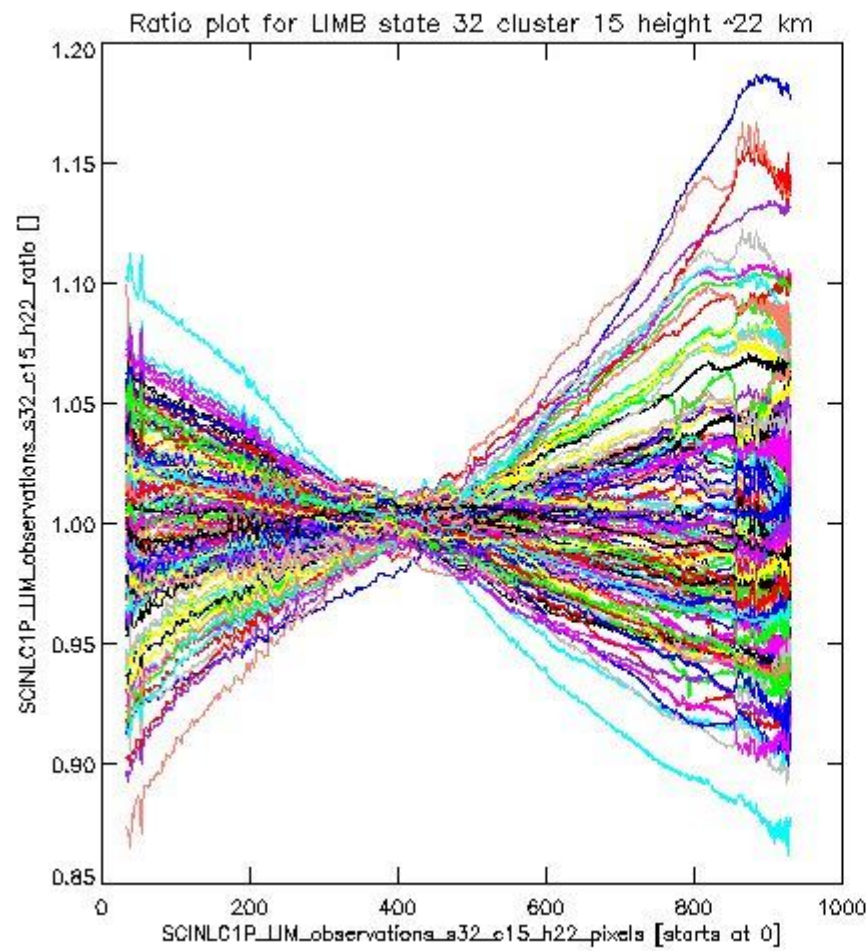
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110107_15.PNG

1.2.9 LIMB state 32 cluster 15 height ~22 km The data for the analysis of LIMB state 32 cluster 15 height ~22 km have the following characteristics:

Item	Value
Start time of first sample	07JAN2011 10:13:37.752
Start time of last sample	07JAN2011 23:57:58.392
Reference period start time	08DEC2010 00:12:44.070
Reference period stop time	04JAN2011 10:51:13.165
Channel number	3
First pixel number (starts at 0)	33
Last pixel number (starts at 0)	929



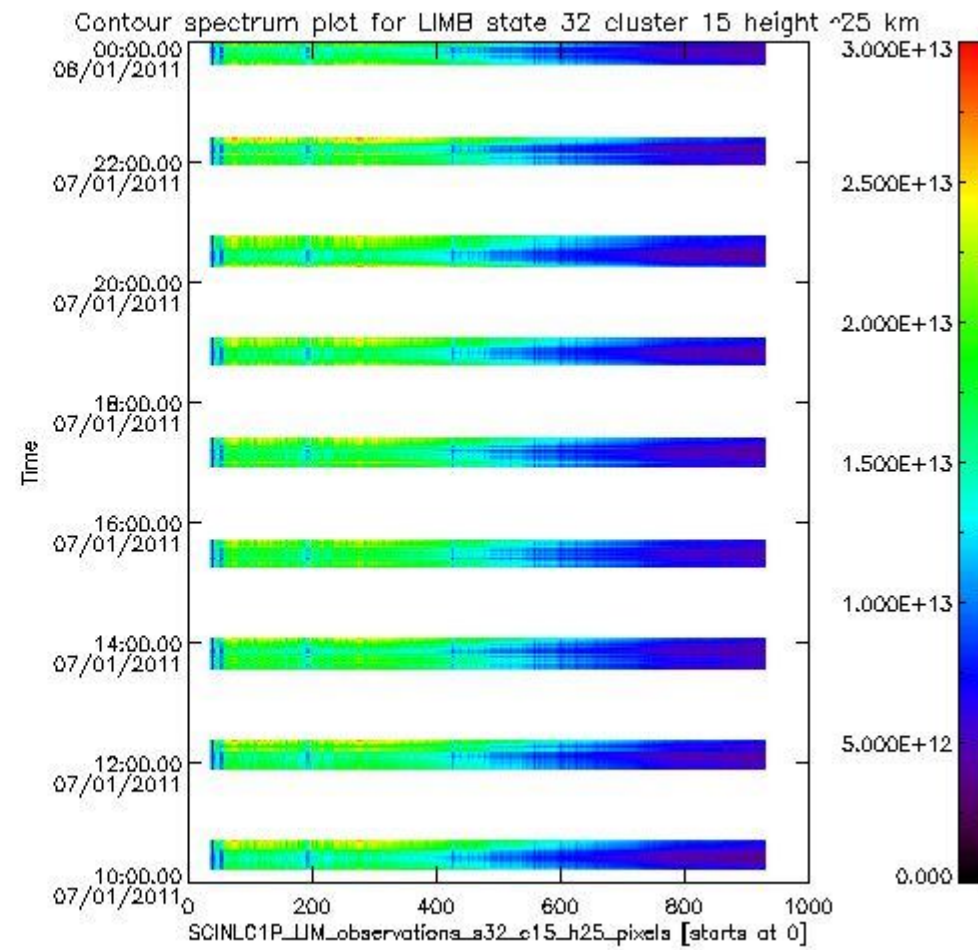
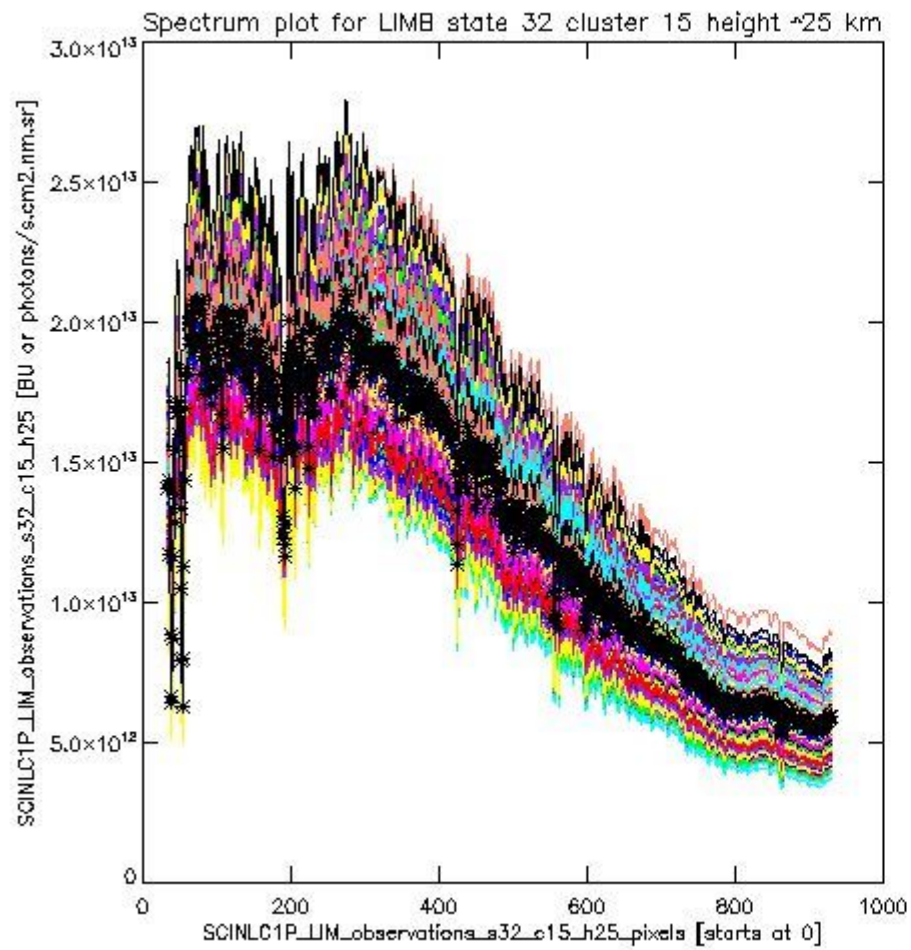
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110107_16.PNG



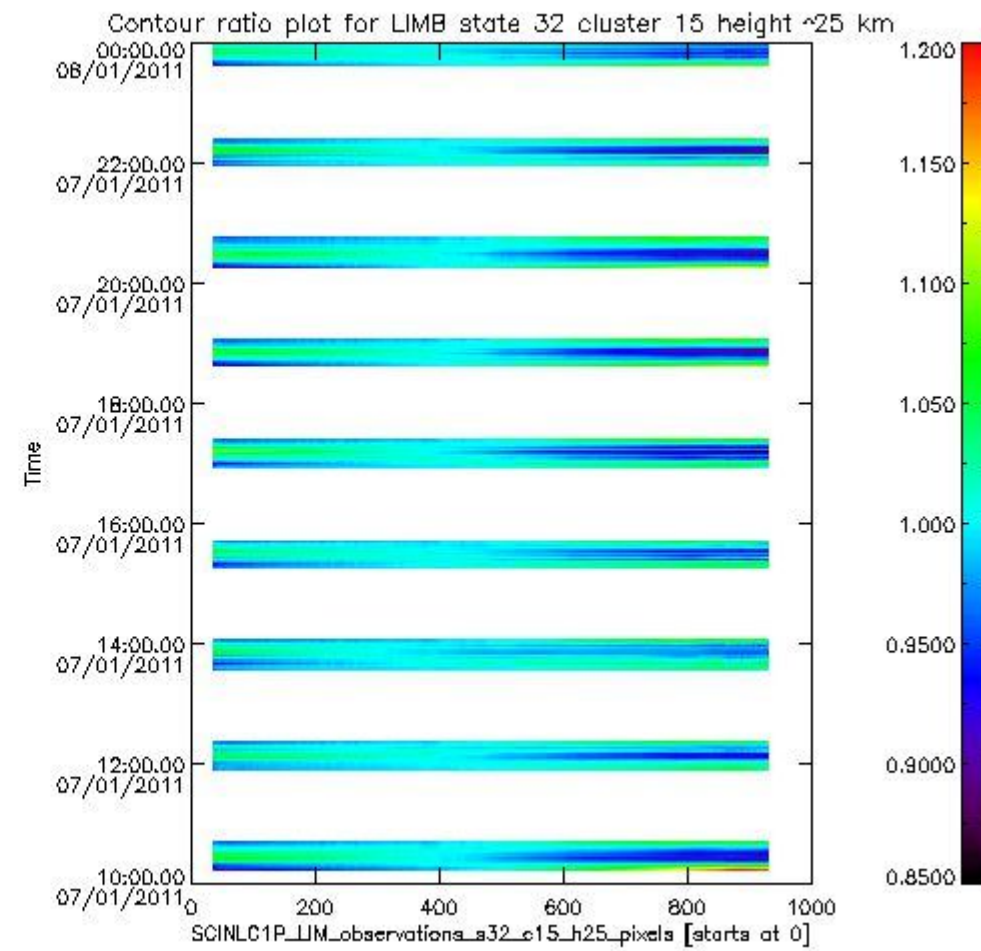
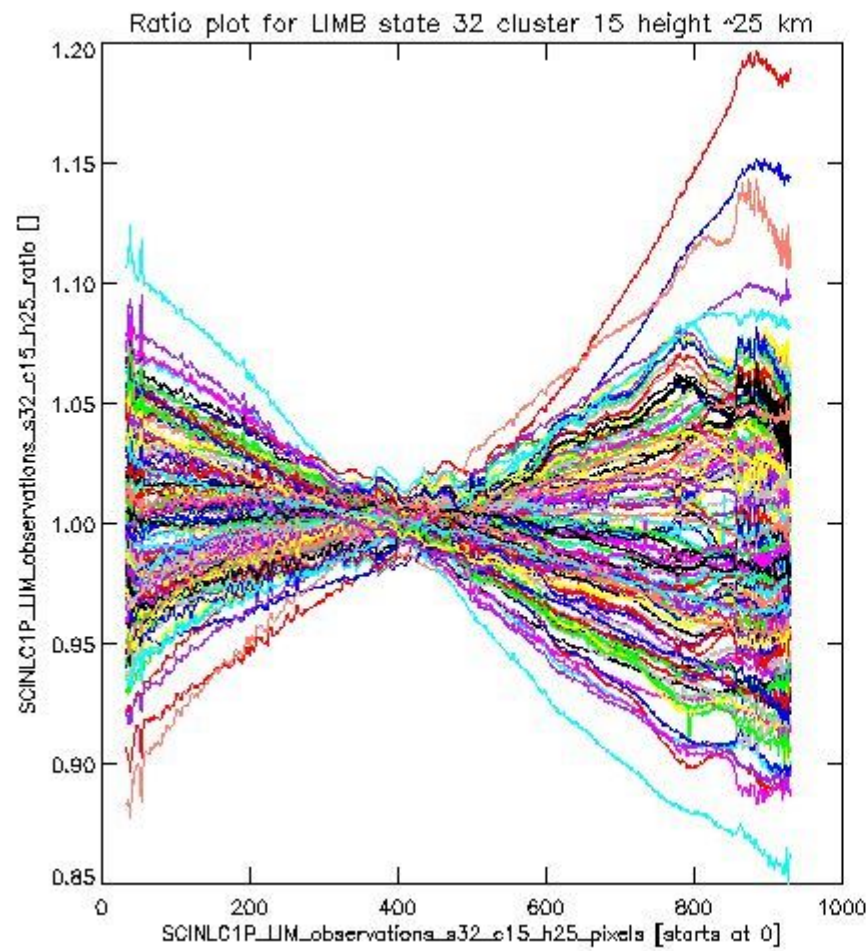
sciamachy_11b_source_packet_report_SCIA_7_04_U_20110107_17.PNG

1.2.10 LIMB state 32 cluster 15 height ~25 km The data for the analysis of LIMB state 32 cluster 15 height ~25 km have the following characteristics:

Item	Value
Start time of first sample	07JAN2011 10:13:37.752
Start time of last sample	07JAN2011 23:57:58.392
Reference period start time	08DEC2010 00:12:44.070
Reference period stop time	04JAN2011 10:51:13.165
Channel number	3
First pixel number (starts at 0)	33
Last pixel number (starts at 0)	929



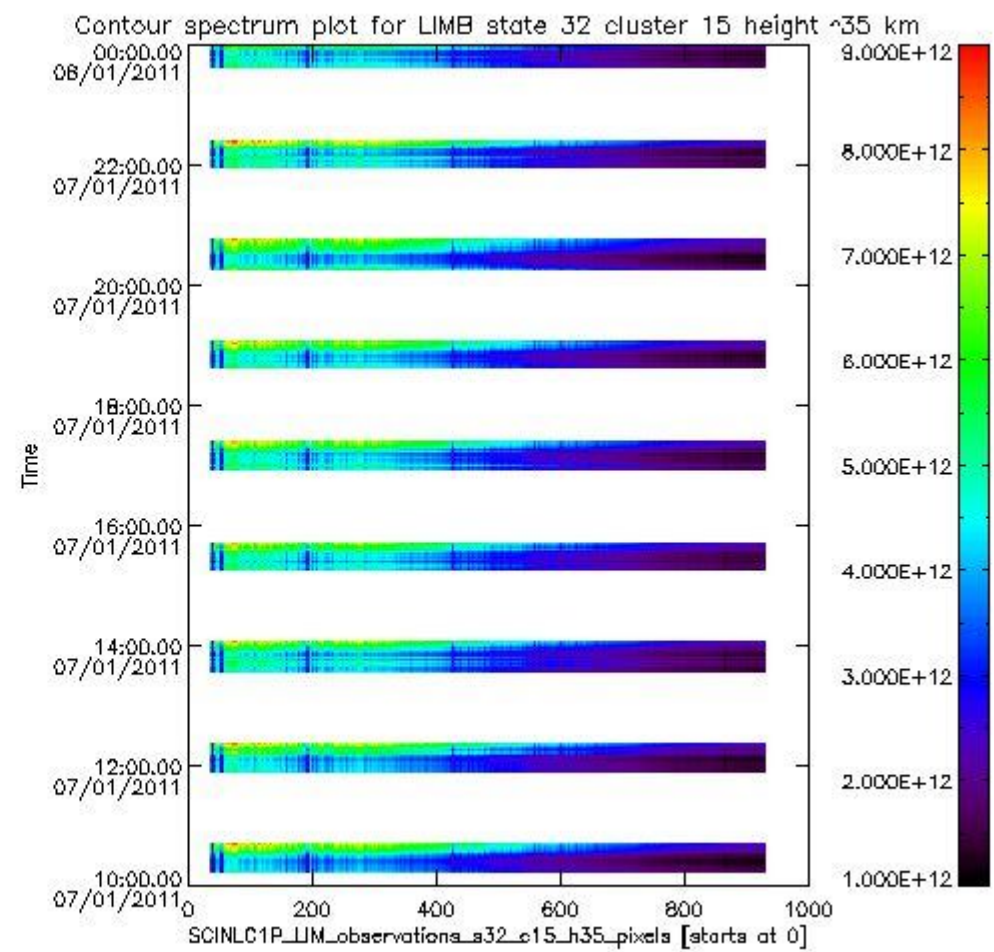
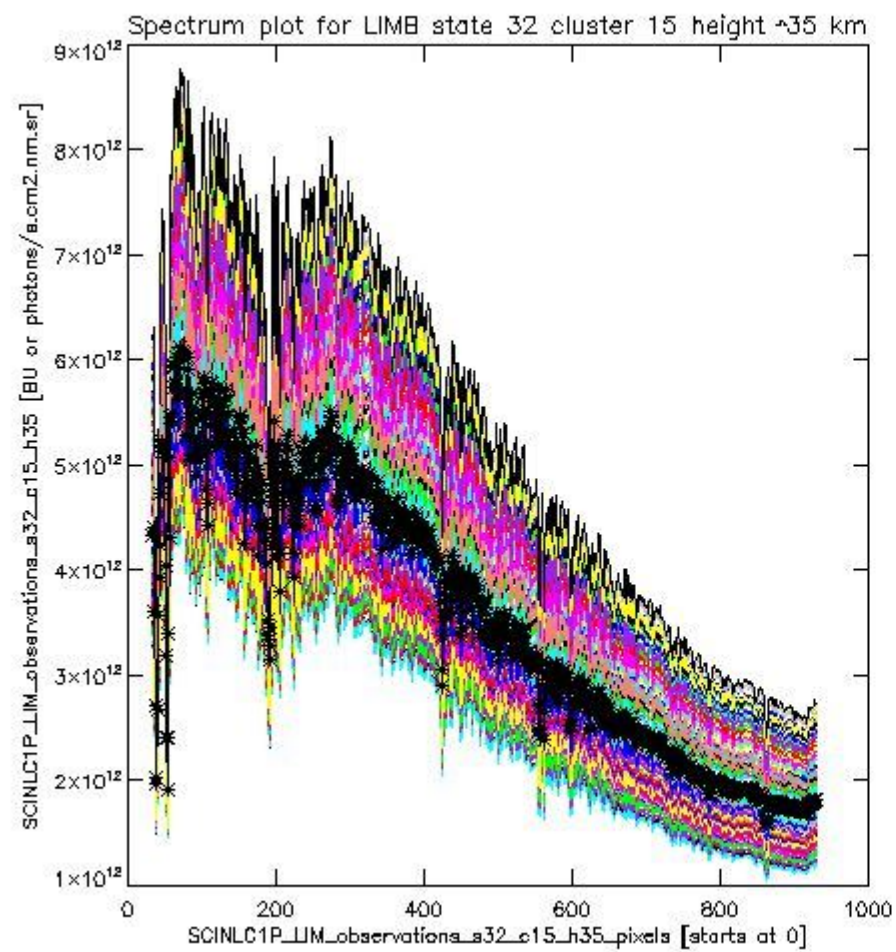
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110107_18.PNG



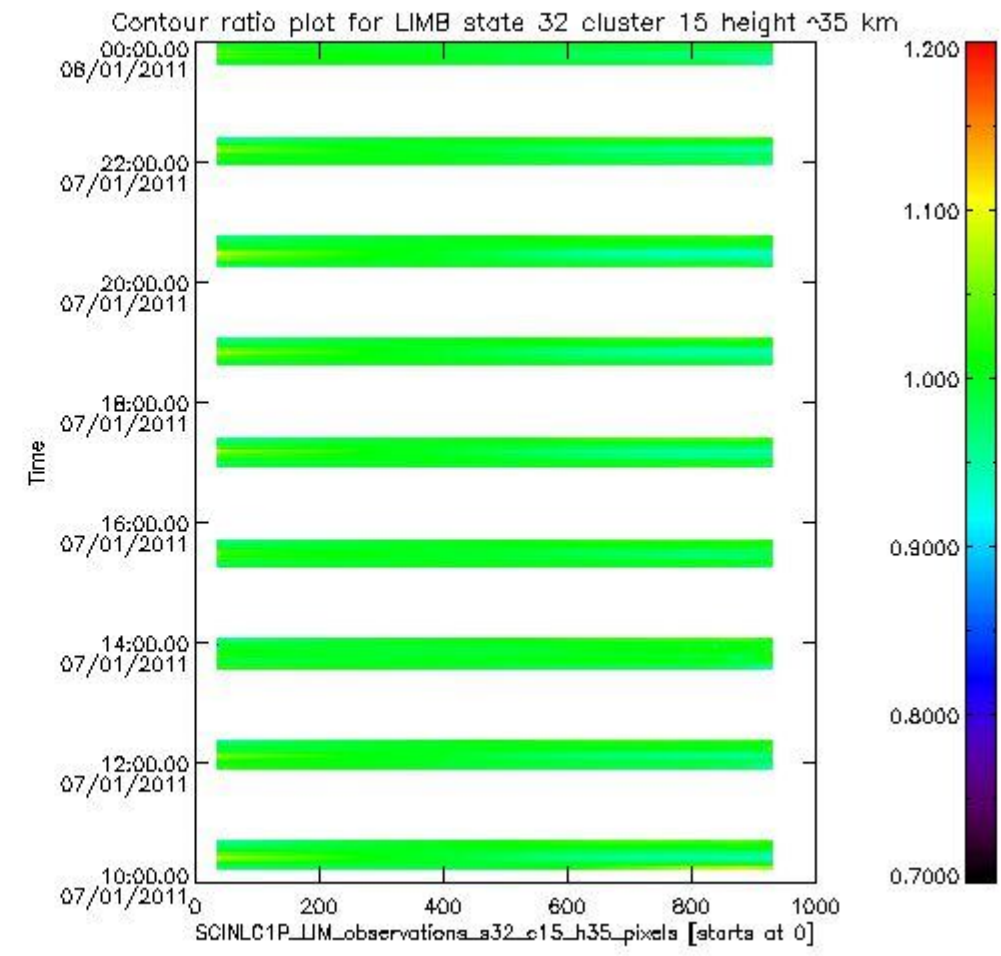
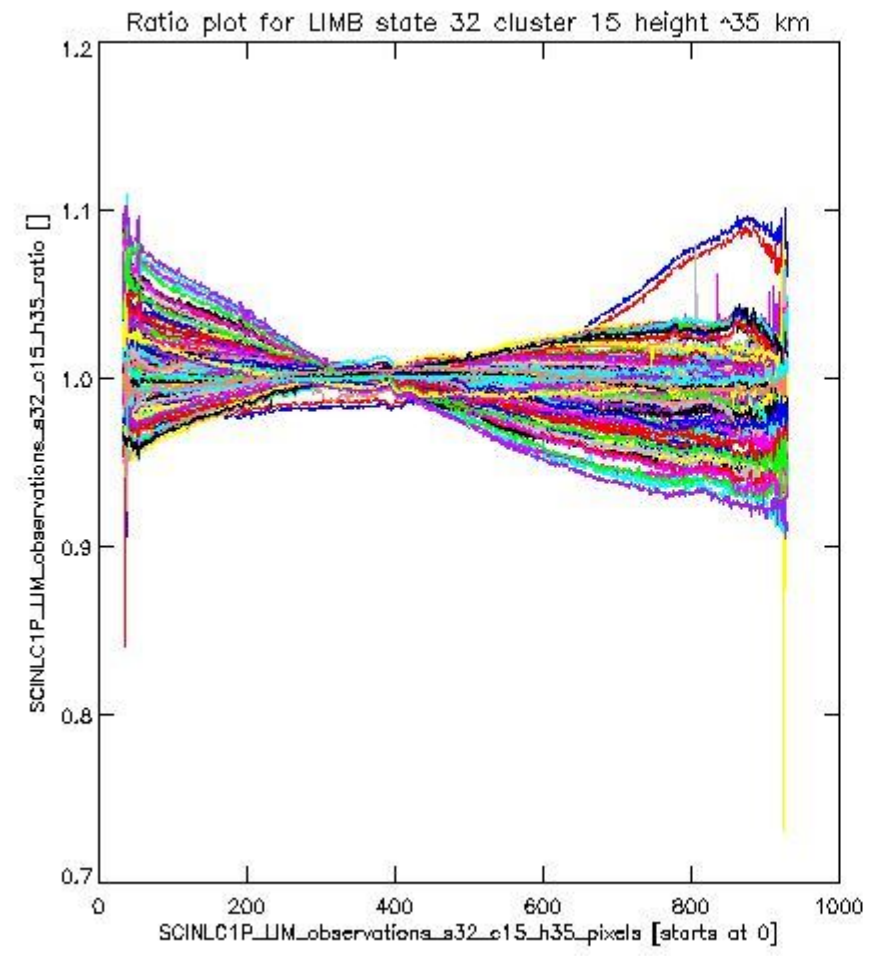
sciamachy_11b_source_packet_report_SCIA_7_04_U_20110107_19.PNG

1.2.11 LIMB state 32 cluster 15 height ~35 km The data for the analysis of LIMB state 32 cluster 15 height ~35 km have the following characteristics:

Item	Value
Start time of first sample	07JAN2011 10:13:37.752
Start time of last sample	07JAN2011 23:57:58.392
Reference period start time	08DEC2010 00:12:44.070
Reference period stop time	04JAN2011 10:51:13.165
Channel number	3
First pixel number (starts at 0)	33
Last pixel number (starts at 0)	929



sciamachy_11b_source_packet_report_SCIA_7_04_U_20110107_20.PNG



sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110107_21.PNG

