

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	10JUN2011 06:55:44
Data source version	SCIA/7.04-U
Processing scope for products	28MAY2011 00:00:00 to 29MAY2011 00:00:00
Start time of first product within scope	28MAY2011 07:50:27
Stop time of last product within scope	29MAY2011 00:47:46
Total number of level 1 products	11
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	28MAY2011 09:08:38.532	28MAY2011 22:38:39.765
1	NADIR	07	09	N/A	28MAY2011 09:08:38.532	28MAY2011 22:38:39.765
2	NADIR	07	15	N/A	28MAY2011 09:08:38.532	28MAY2011 22:38:39.765
3	NADIR	07	24	N/A	28MAY2011 09:08:38.532	28MAY2011 22:38:39.765
4	NADIR	07	55	N/A	28MAY2011 09:08:38.532	28MAY2011 22:38:39.765
5	LIMB	32	09	~19 km	28MAY2011 08:53:25.150	28MAY2011 23:58:26.071
6	LIMB	32	09	~22 km	28MAY2011 08:53:25.150	28MAY2011 23:58:26.071
7	LIMB	32	09	~25 km	28MAY2011 08:53:25.150	28MAY2011 23:58:26.071
8	LIMB	32	15	~22 km	28MAY2011 08:53:25.150	28MAY2011 23:58:26.071
9	LIMB	32	15	~25 km	28MAY2011 08:53:25.150	28MAY2011 23:58:26.071
10	LIMB	32	15	~35 km	28MAY2011 08:53:25.150	28MAY2011 23:58:26.071

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	#cmpl_drk	#incmpl_drk	Decont
0	SCI_NLC_1CUDPA20110528_075027_000024273103_00035_48325_1717.N1	28MAY2011 07:50:27	28MAY2011 08:30:55	0	0	0	0	0	2	0	0	
1	SCI_NLC_1CUDPA20110528_083527_000057423103_00036_48326_1696.N1	28MAY2011 08:35:27	28MAY2011 09:45:56	0	36	30	0	0	1	0	0	
2	SCI_NLC_1CUDPA20110528_101541_000057423103_00037_48327_1695.N1	28MAY2011 10:15:41	28MAY2011 11:25:55	0	35	31	0	0	1	0	0	
3	SCI_NLC_1CUDPA20110528_115554_000057423103_00038_48328_1699.N1	28MAY2011 11:55:54	28MAY2011 13:06:23	0	36	30	0	0	1	0	0	
4	SCI_NLC_1CUDPA20110528_133608_000057423103_00039_48329_1700.N1	28MAY2011 13:36:08	28MAY2011 14:46:23	0	35	31	0	0	1	0	0	
5	SCI_NLC_1CUDPA20110528_151622_000057423103_00040_48330_1702.N1	28MAY2011 15:16:22	28MAY2011 16:26:51	0	36	30	0	0	1	0	0	

6	SCI_NLC_1CUDPA20110528_165636_000057423103_00041_48331_1703.N1	28MAY2011 16:56:36	28MAY2011 18:06:50	0	35	31	0	0	1	0	0
7	SCI_NLC_1CUDPA20110528_183650_000057423103_00042_48332_1710.N1	28MAY2011 18:36:50	28MAY2011 19:46:55	0	34	30	0	1	1	0	0
8	SCI_NLC_1CUDPA20110528_201703_000057423103_00043_48333_1706.N1	28MAY2011 20:17:03	28MAY2011 21:27:27	0	35	31	0	1	1	0	0
9	SCI_NLC_1CUDPA20110528_215717_000057413103_00044_48334_1707.N1	28MAY2011 21:57:17	28MAY2011 23:07:46	0	36	30	0	0	1	0	0
10	SCI_NLC_1CUDPA20110528_233731_000057413103_00045_48335_1747.N1	28MAY2011 23:37:31	29MAY2011 00:47:46	0	35	31	0	0	1	0	0

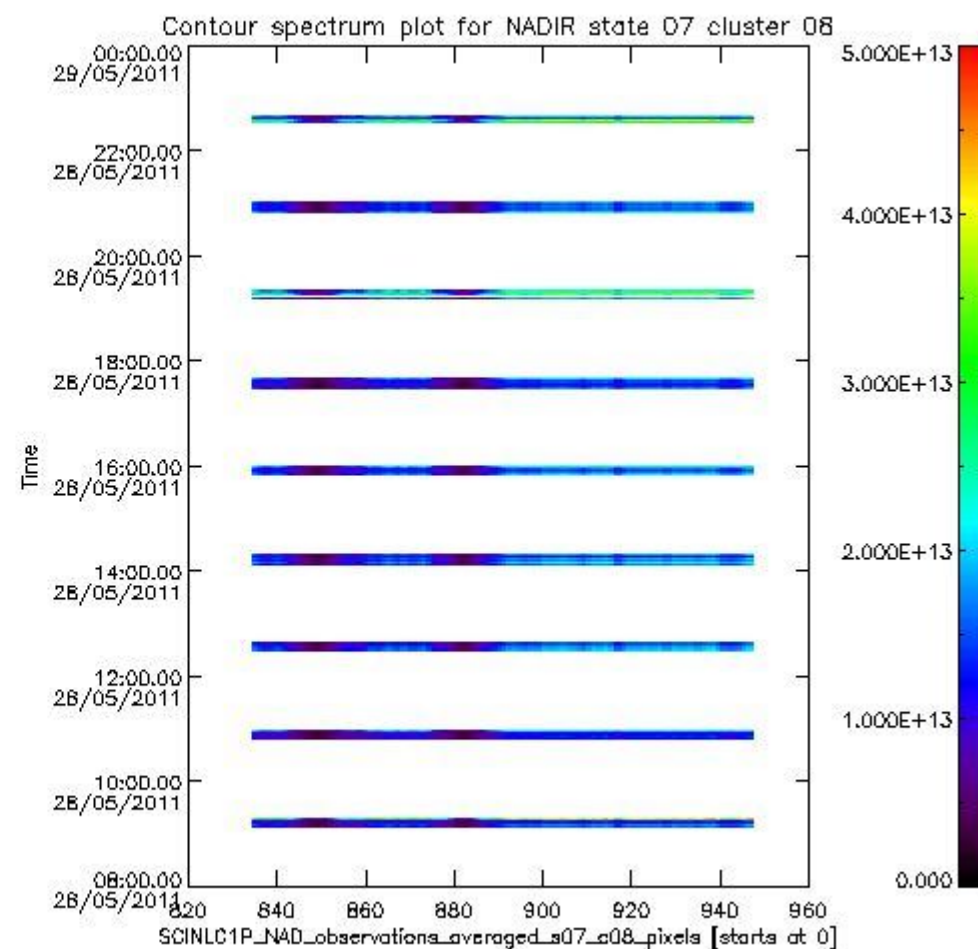
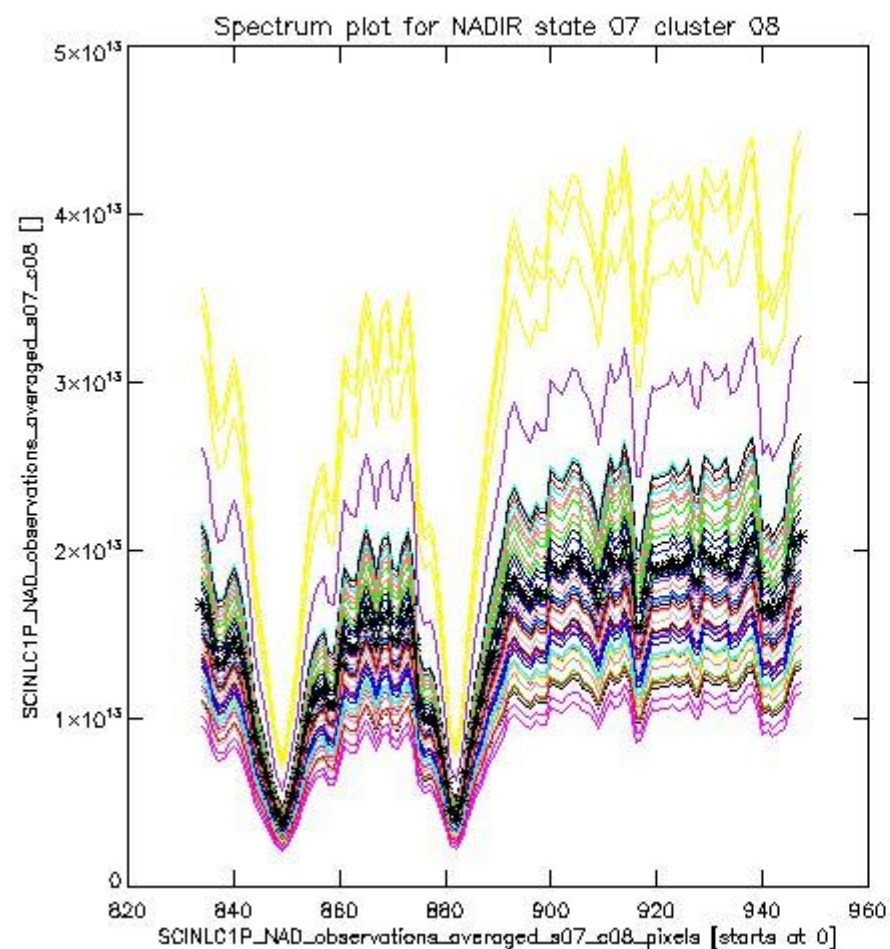
1.2 Source packet monitoring

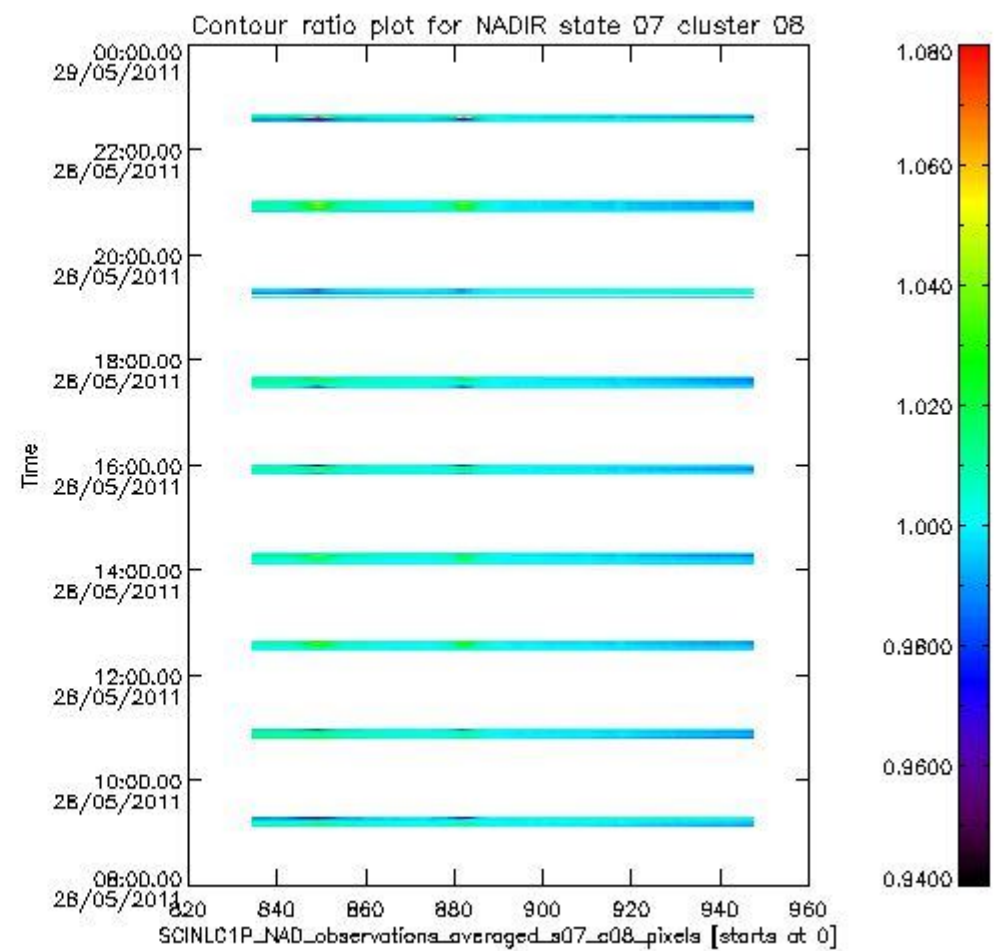
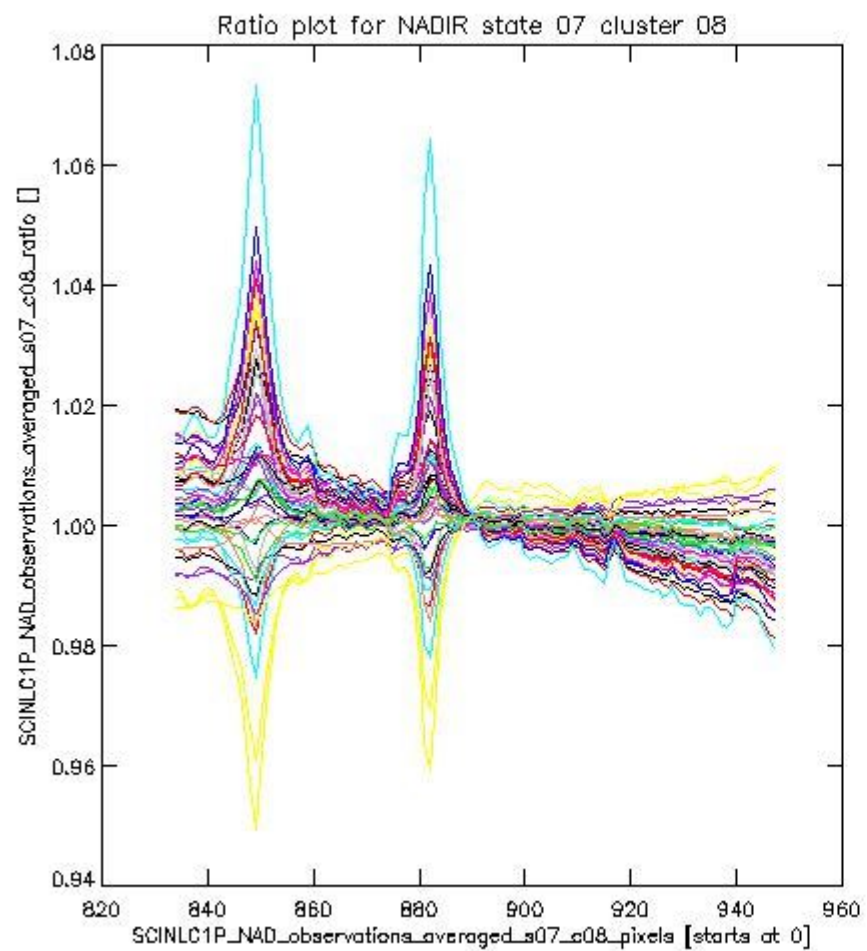
This section shows figures for each of the monitored source packet types listed in the Source Packet Summary section. For each mode-state-cluster(-height) combination the following plots are shown:

- 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	28MAY2011 09:08:38.532
Start time of last sample	28MAY2011 22:38:39.765
Reference period start time	28APR2011 00:48:56.829
Reference period stop time	26MAY2011 15:31:58.919
Channel number	2
First pixel number (starts at 0)	834
Last pixel number (starts at 0)	947

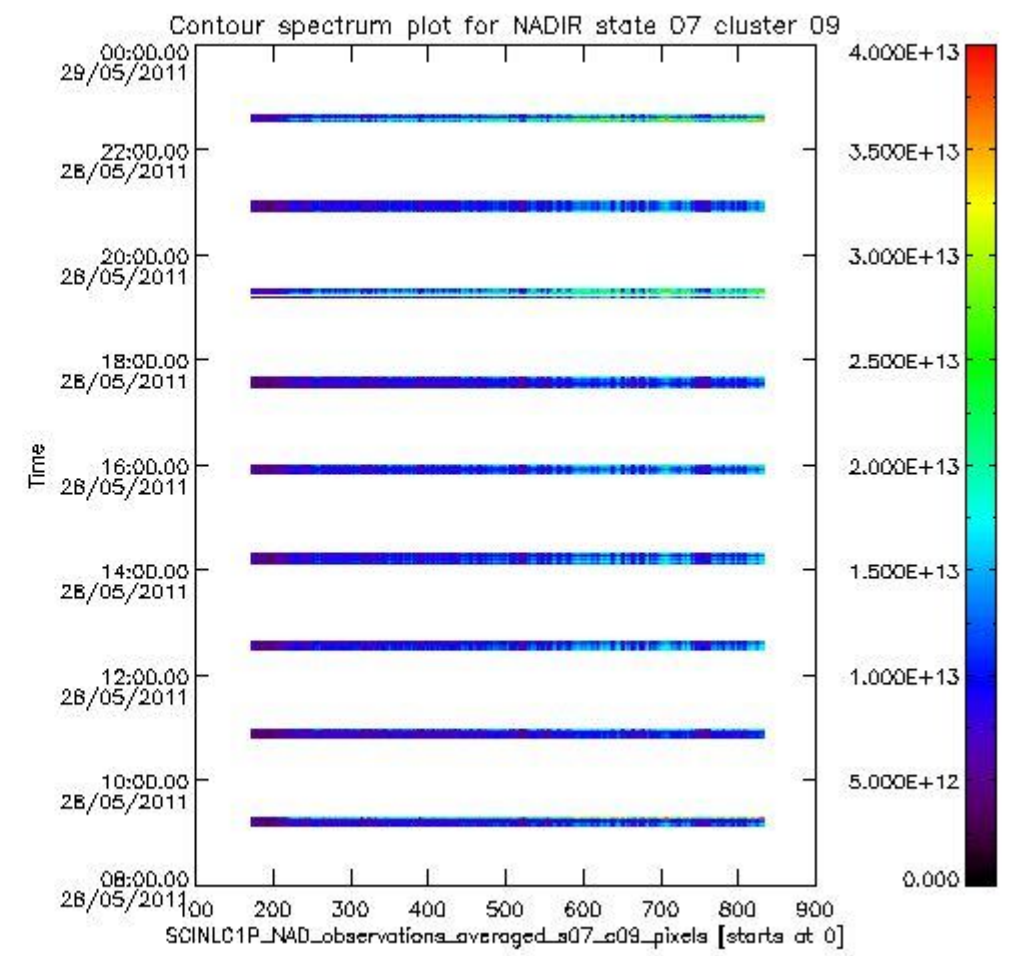
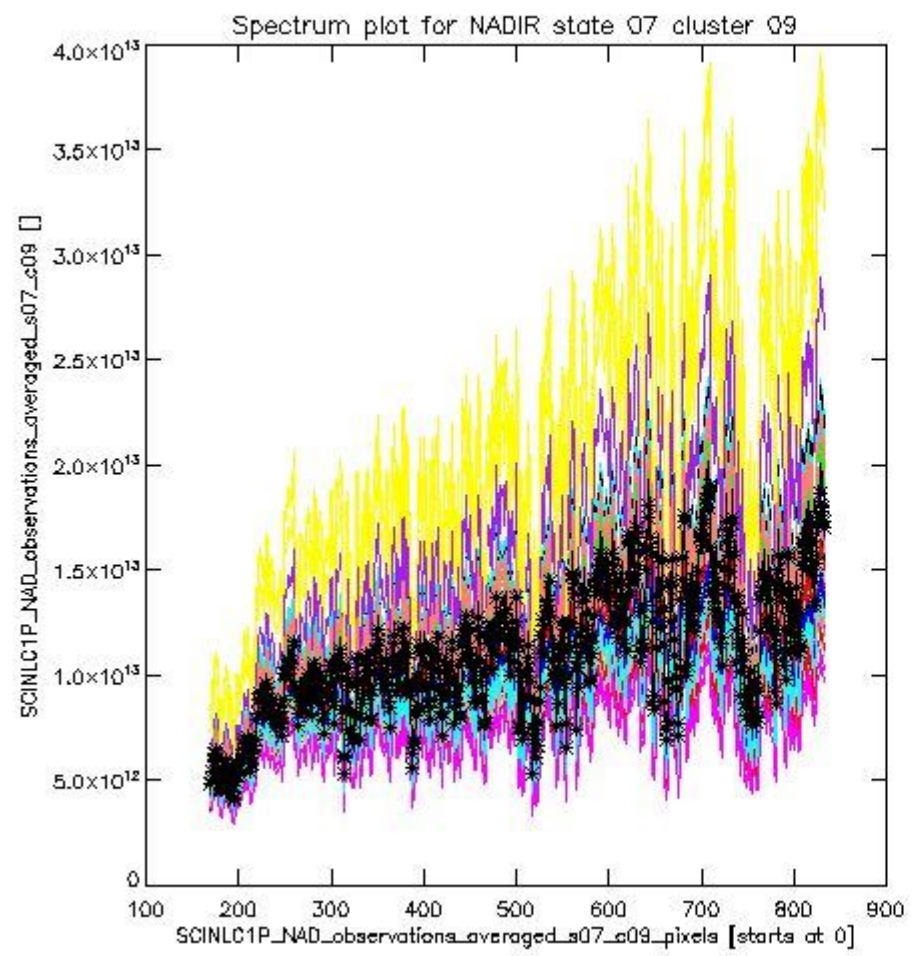




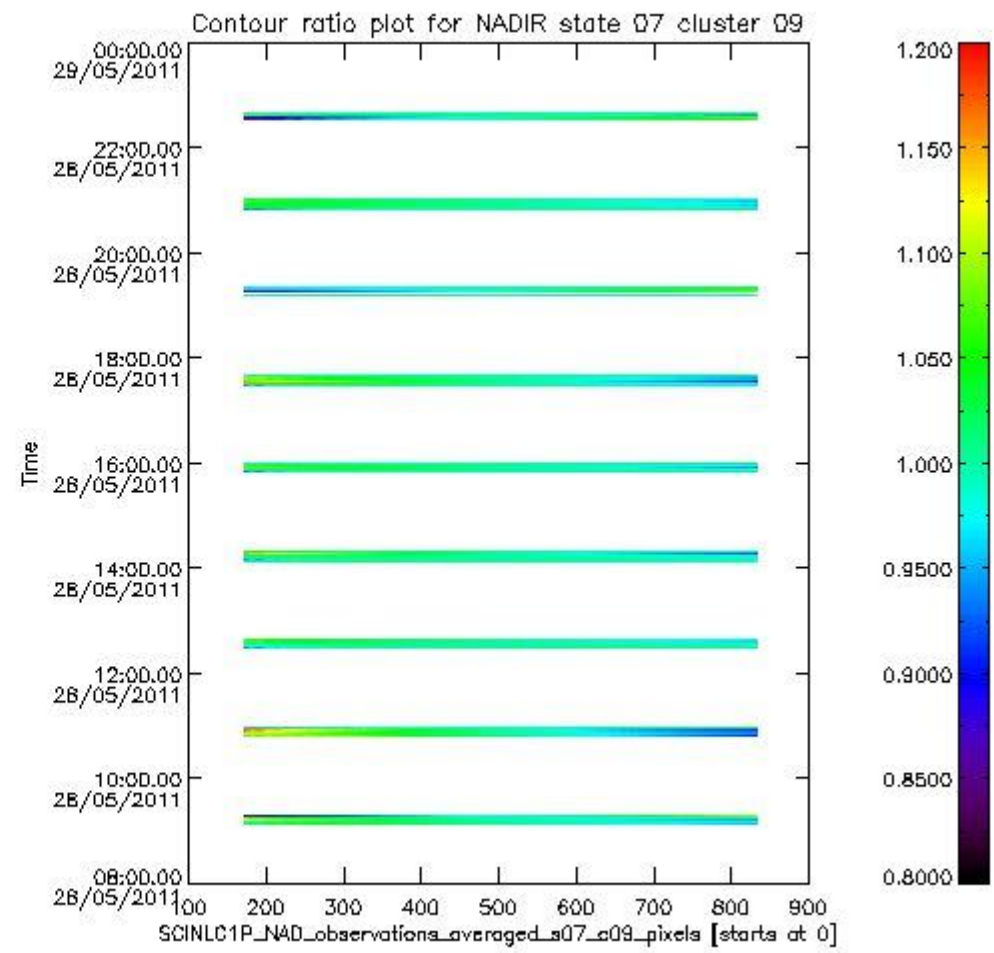
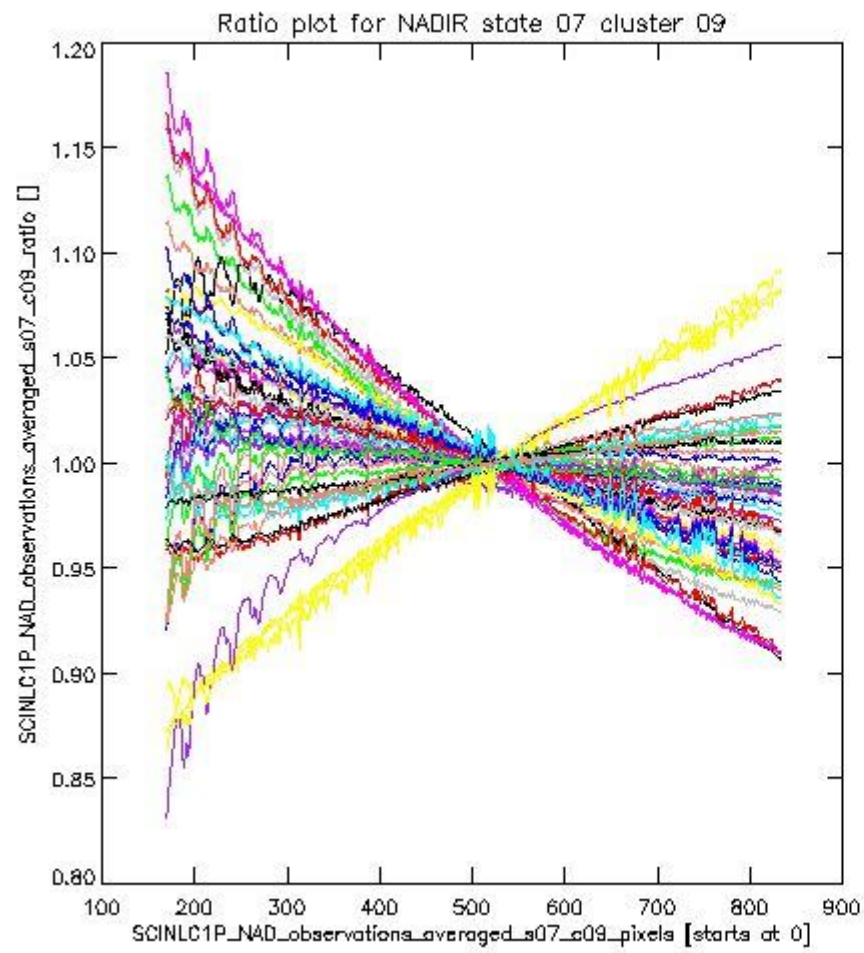
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110528_1.PNG

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	28MAY2011 09:08:38.532
Start time of last sample	28MAY2011 22:38:39.765
Reference period start time	28APR2011 00:48:56.829
Reference period stop time	26MAY2011 15:31:58.919
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	833



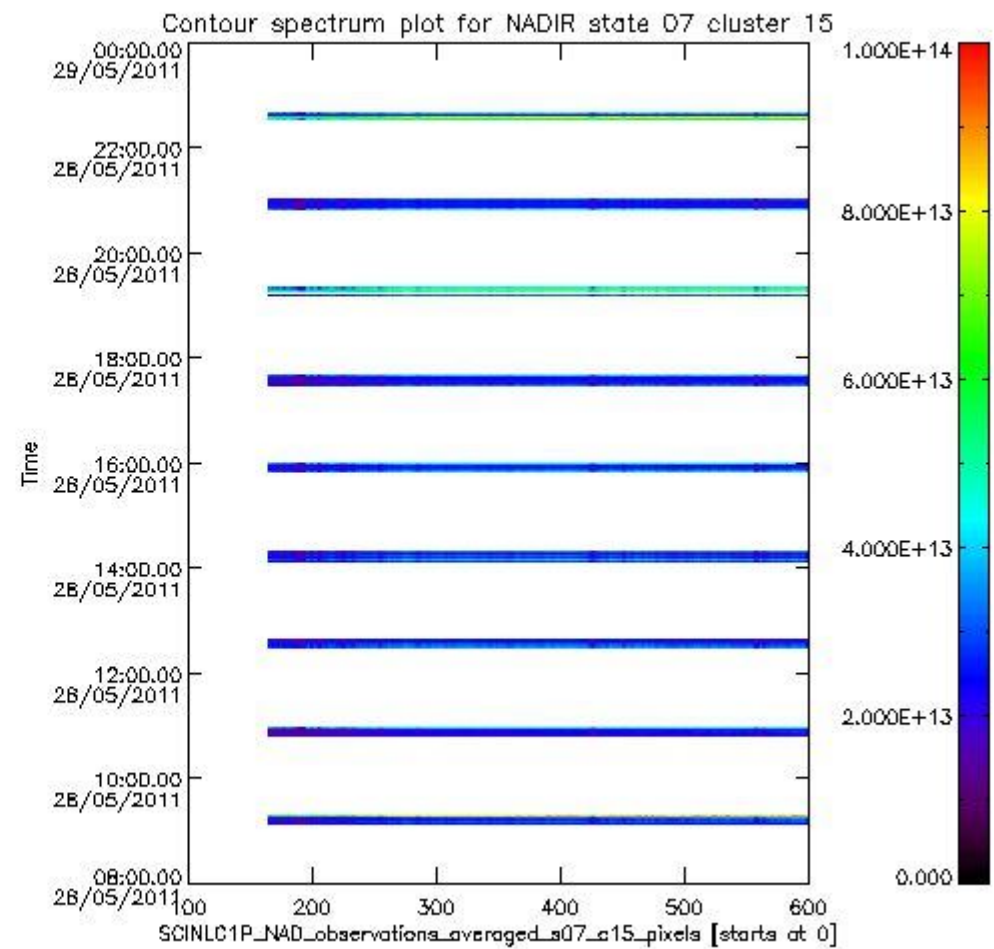
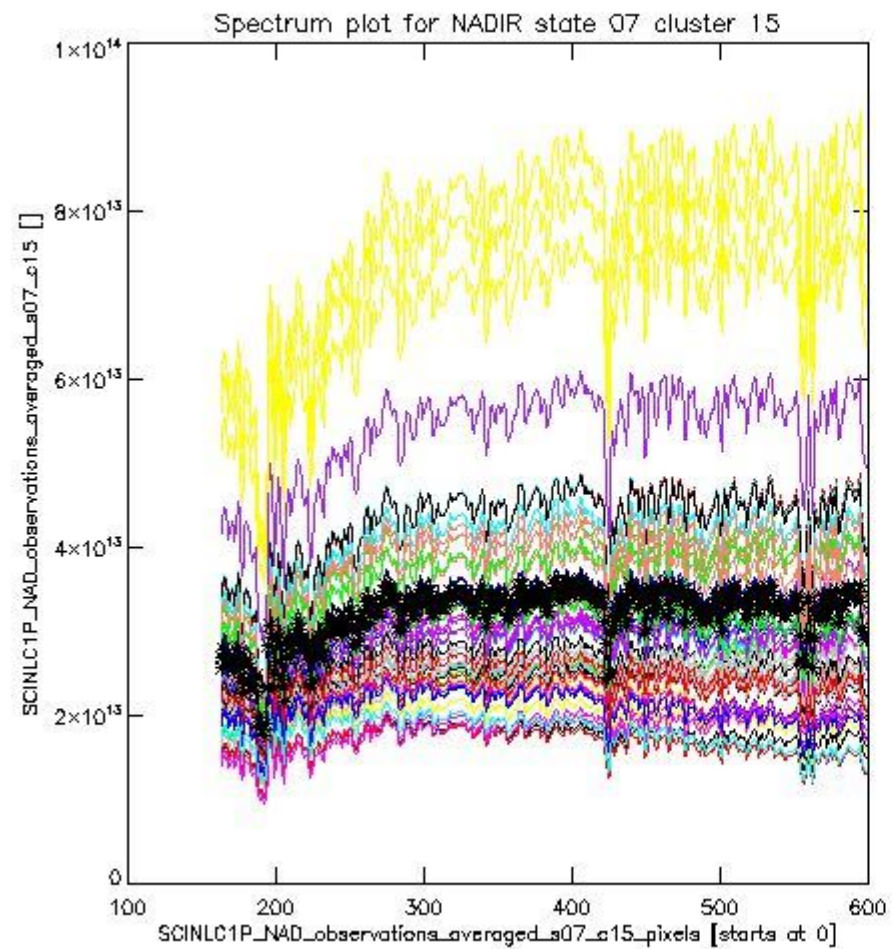
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110528_2.PNG



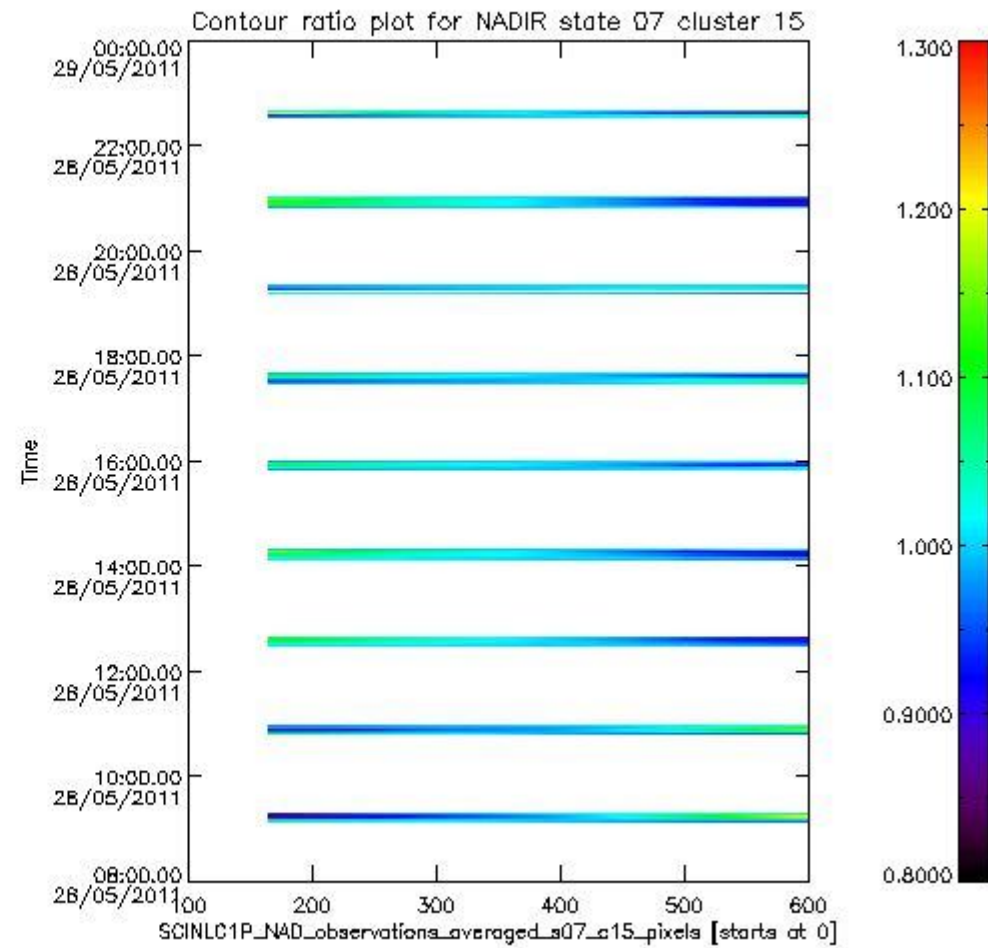
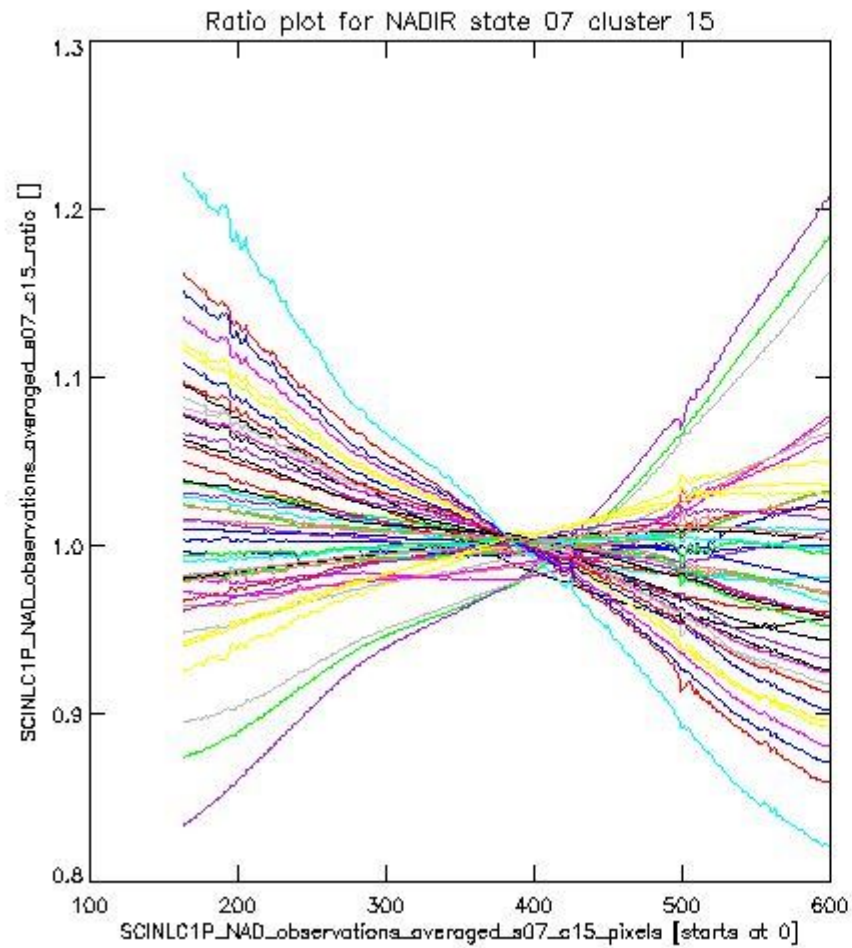
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110528_3.PNG

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	28MAY2011 09:08:38.532
Start time of last sample	28MAY2011 22:38:39.765
Reference period start time	28APR2011 00:48:56.829
Reference period stop time	26MAY2011 15:31:58.919
Channel number	3
First pixel number (starts at 0)	163
Last pixel number (starts at 0)	598



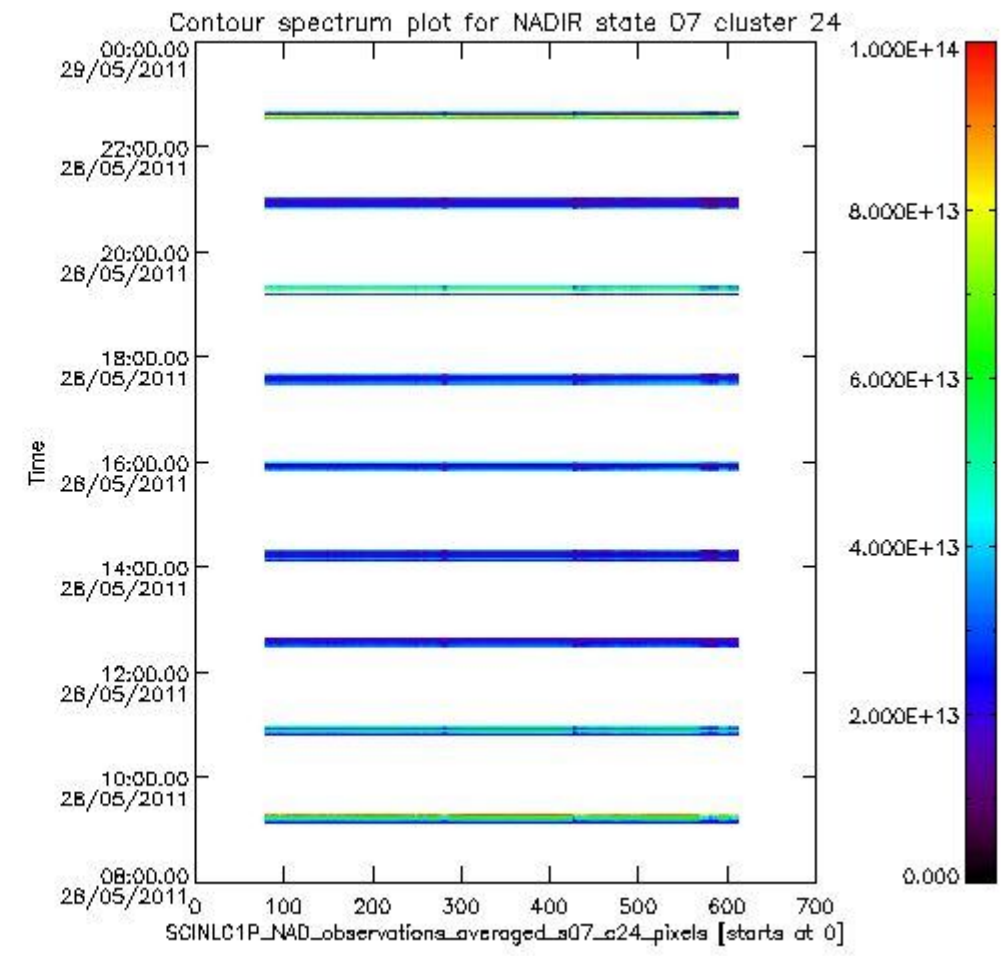
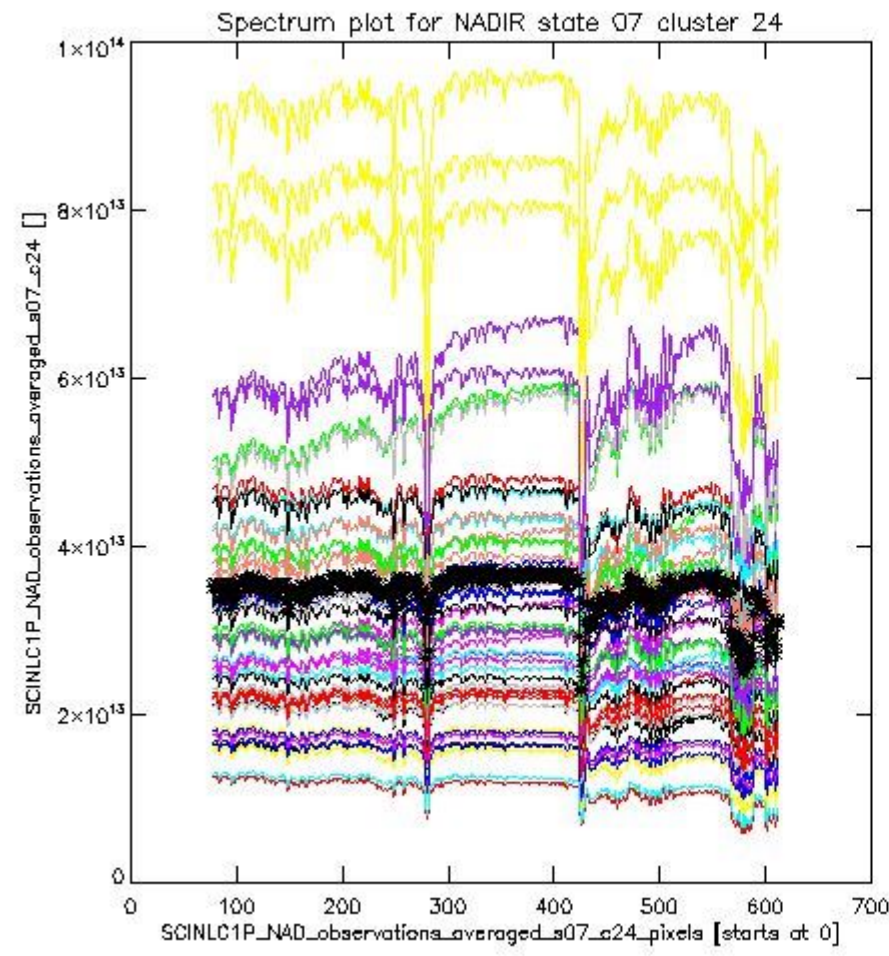
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110528_4.PNG



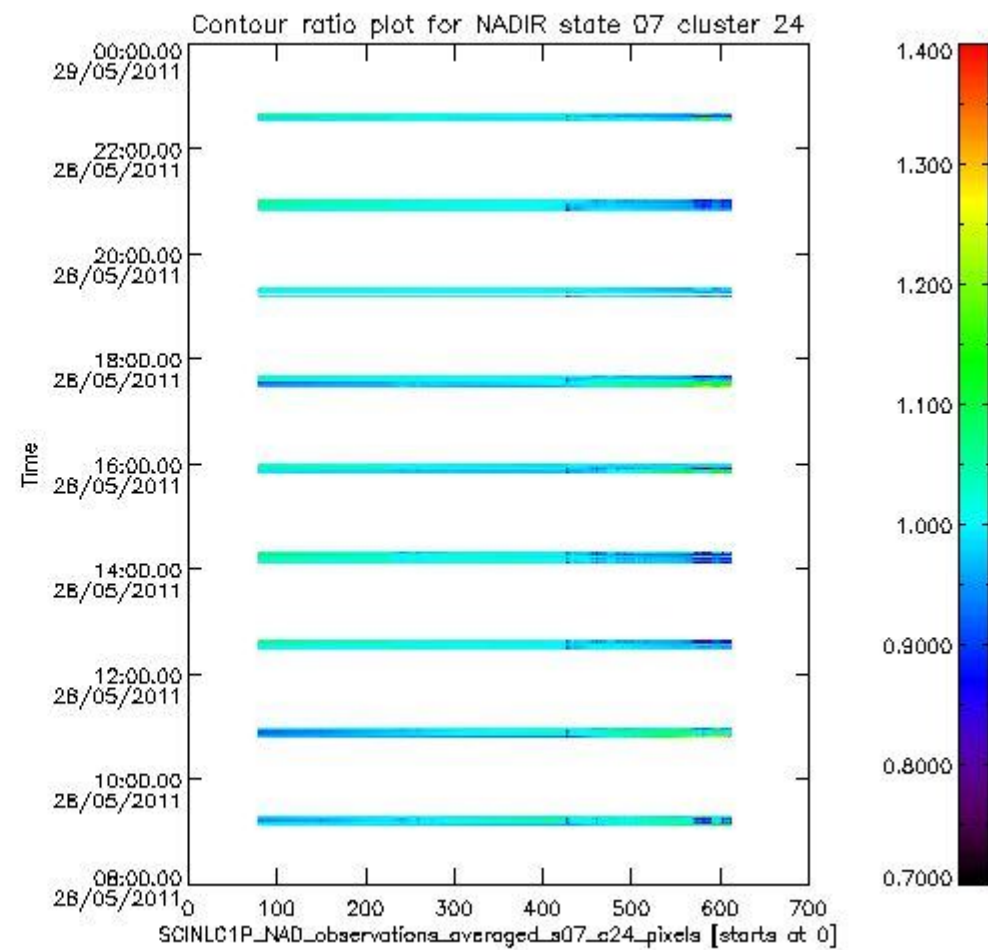
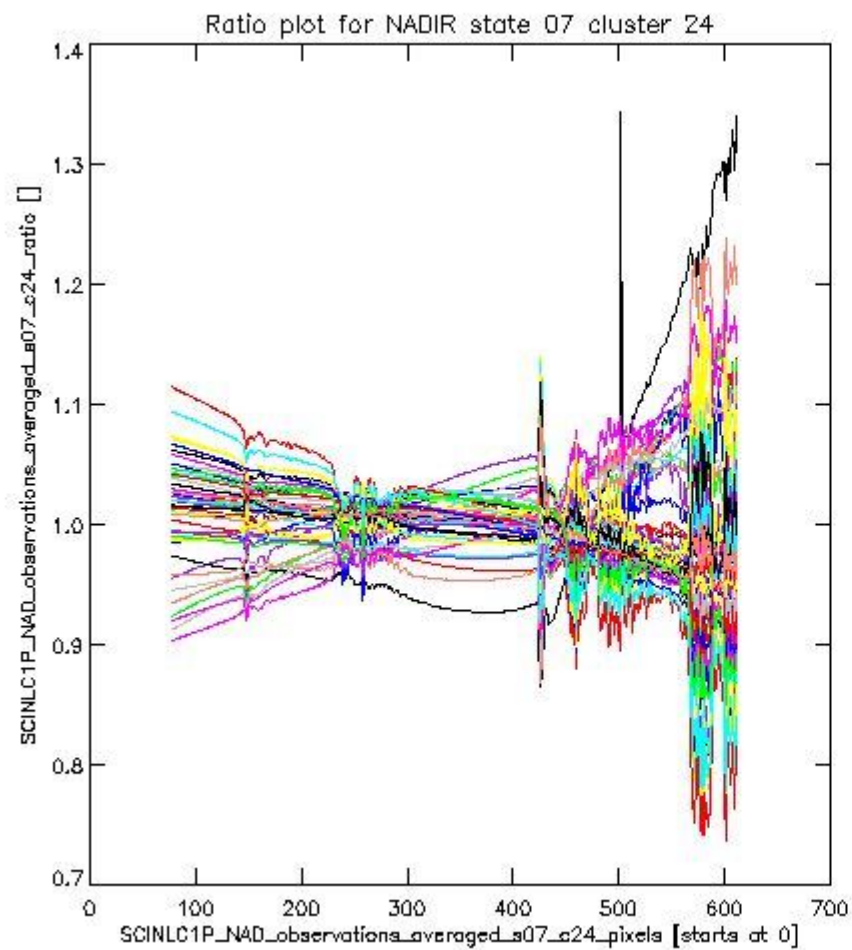
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110528_5.PNG

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	28MAY2011 09:08:38.532
Start time of last sample	28MAY2011 22:38:39.765
Reference period start time	28APR2011 00:48:56.829
Reference period stop time	26MAY2011 15:31:58.919
Channel number	4
First pixel number (starts at 0)	78
Last pixel number (starts at 0)	612



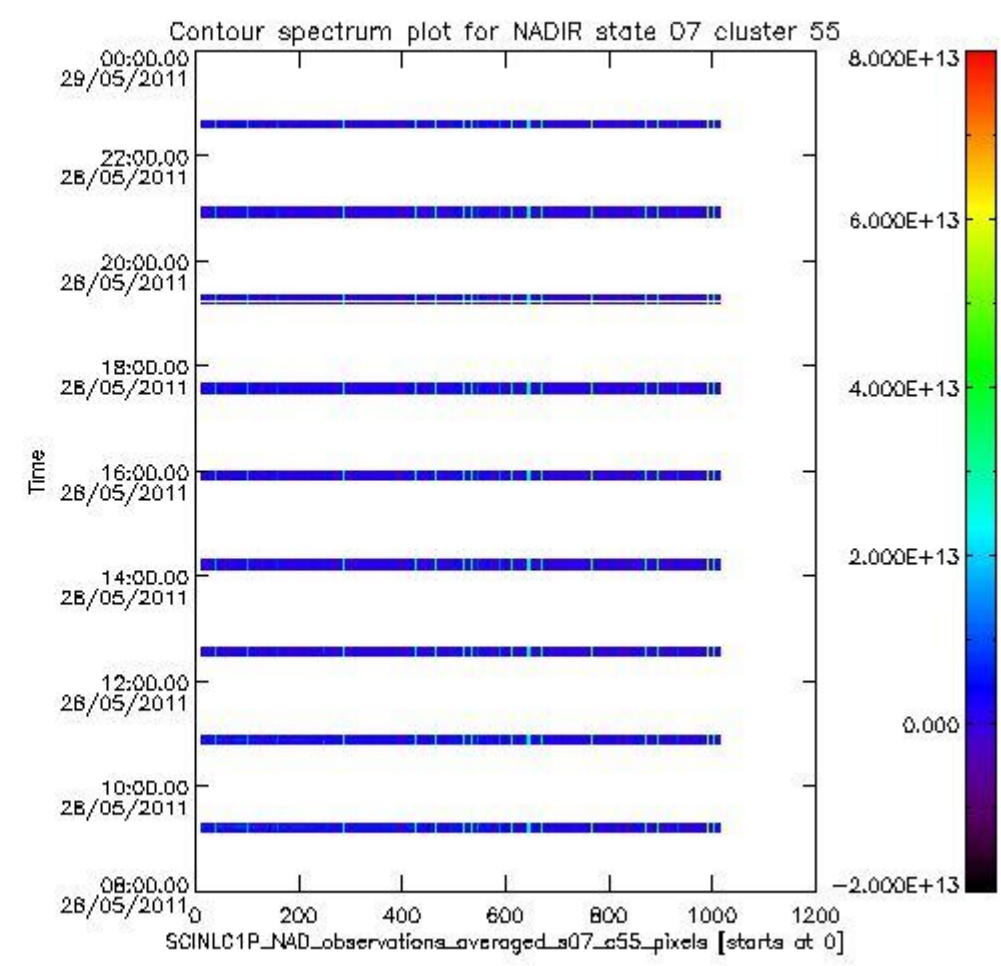
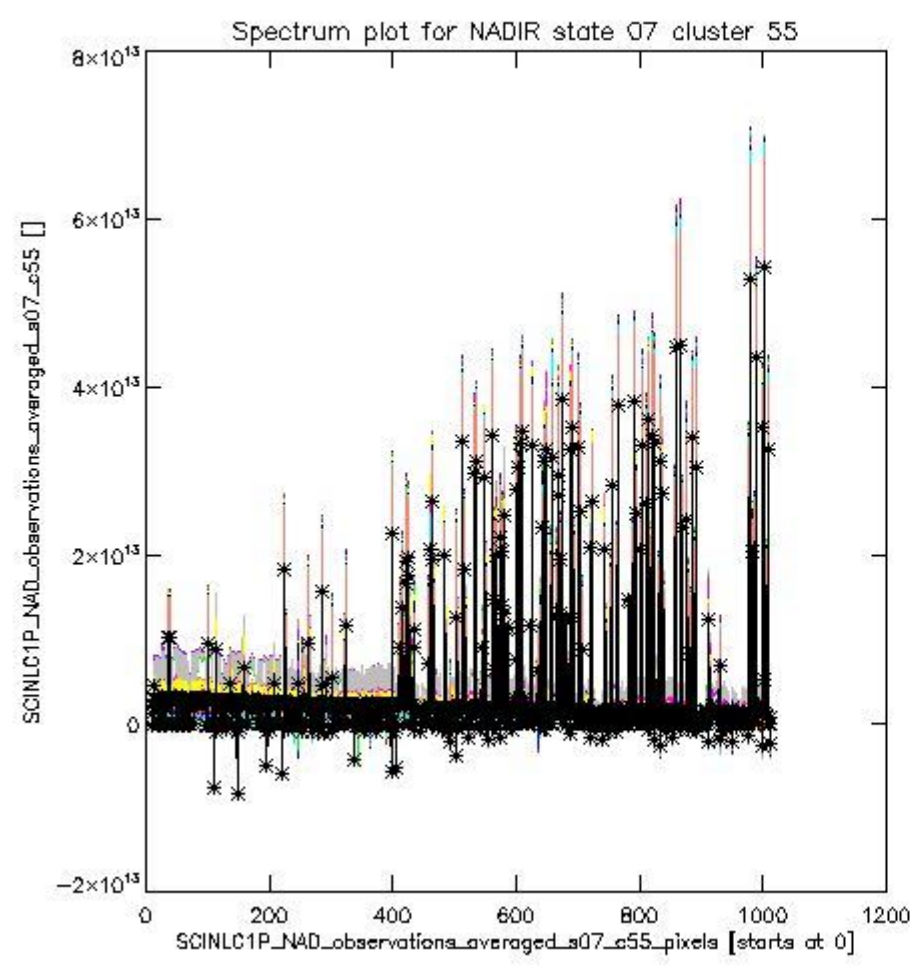
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110528_6.PNG



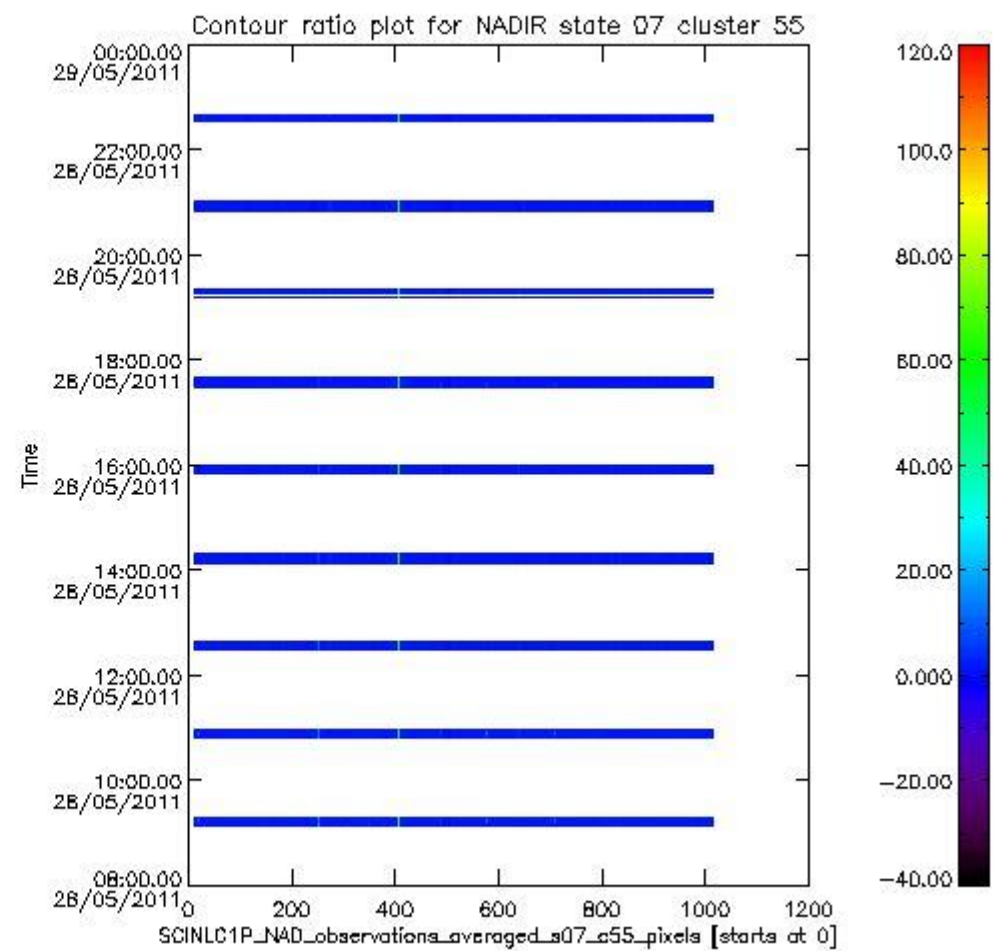
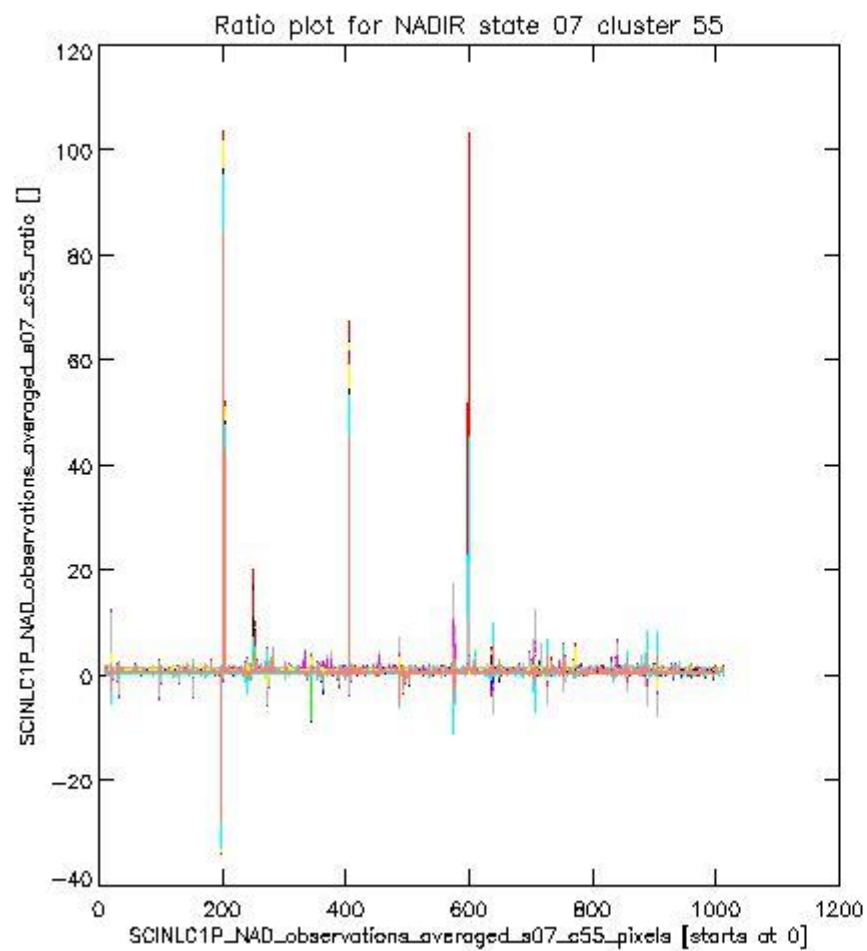
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110528_7.PNG

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	28MAY2011 09:08:38.532
Start time of last sample	28MAY2011 22:38:39.765
Reference period start time	28APR2011 00:48:56.829
Reference period stop time	26MAY2011 15:31:58.919
Channel number	8
First pixel number (starts at 0)	10
Last pixel number (starts at 0)	1013



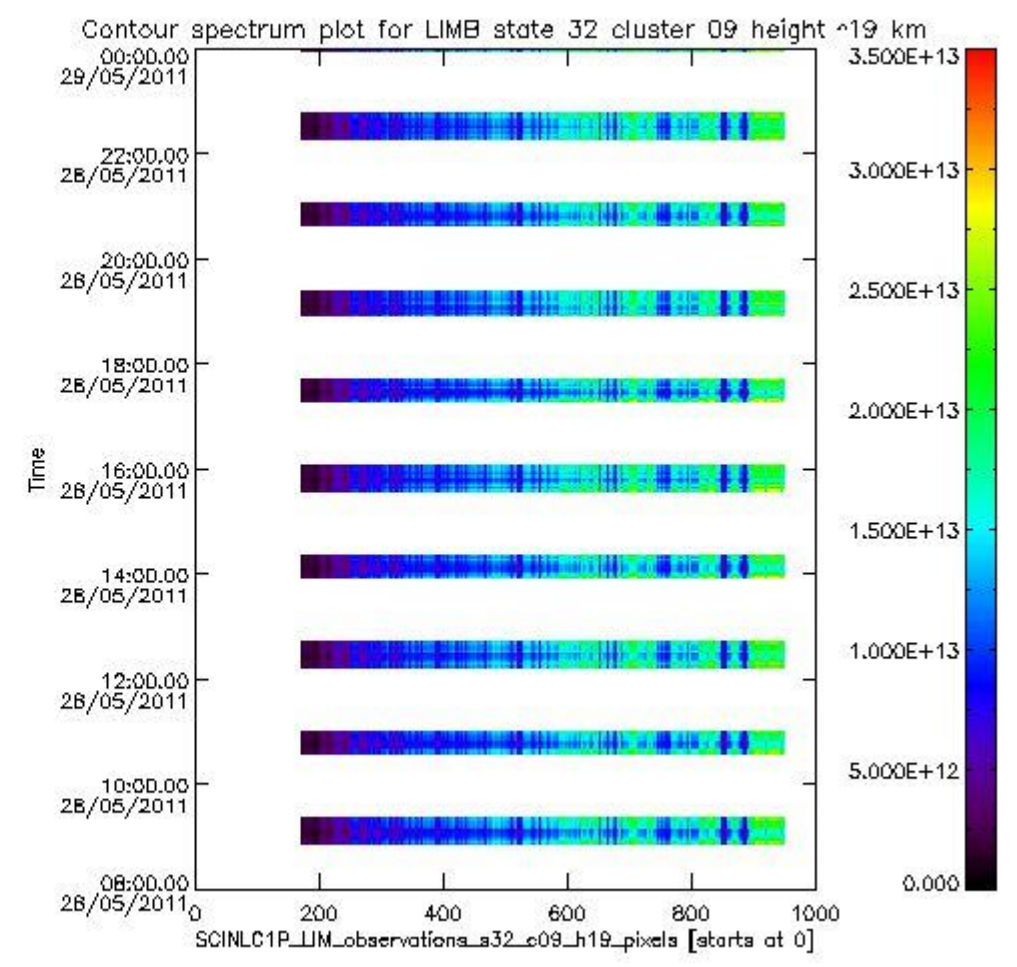
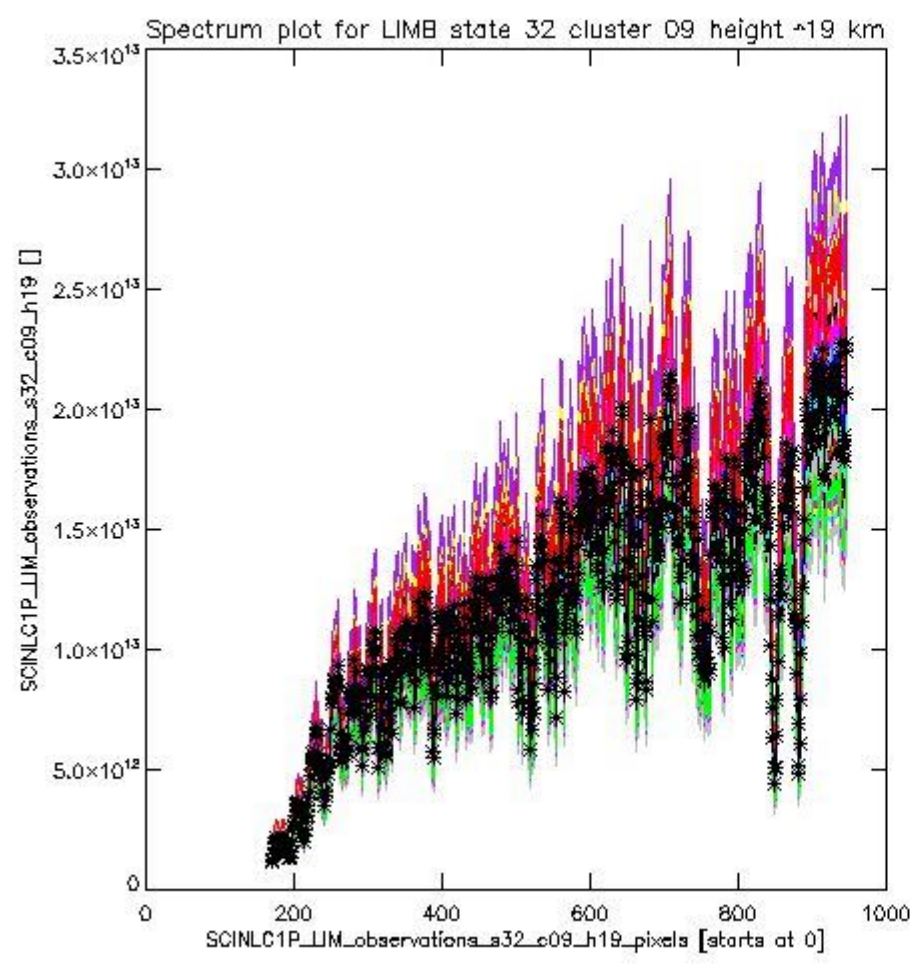
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110528_8.PNG



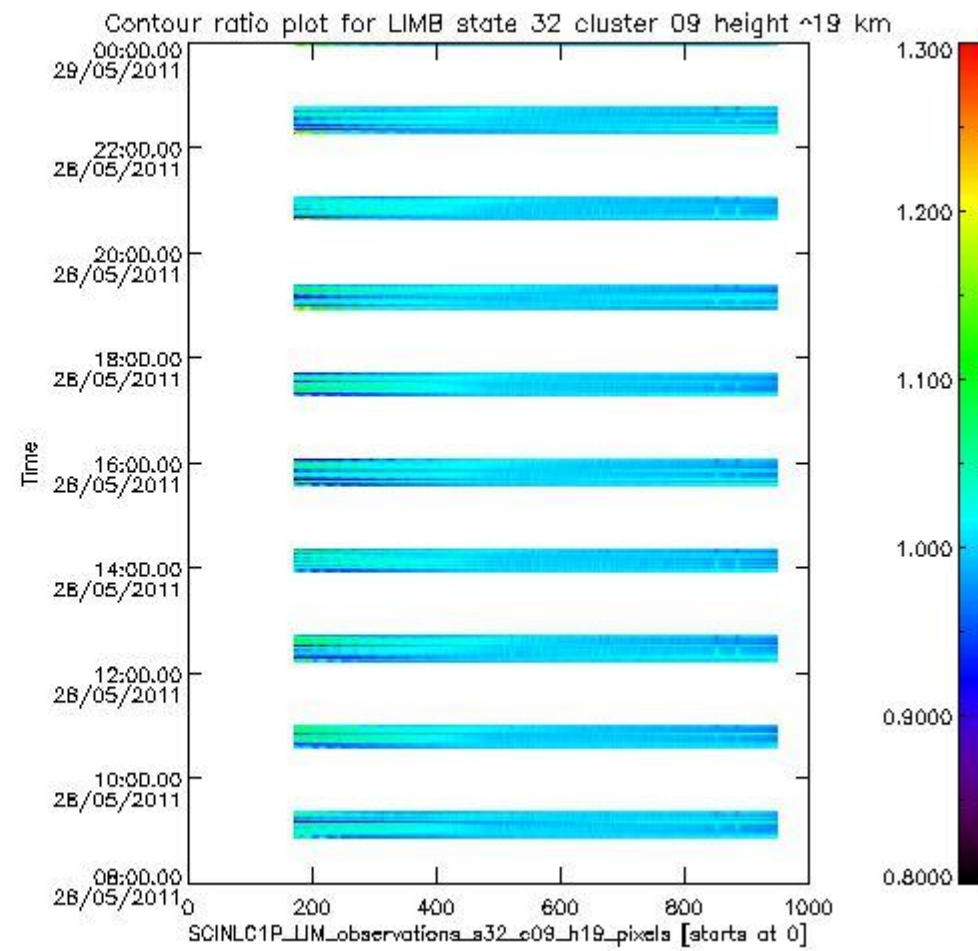
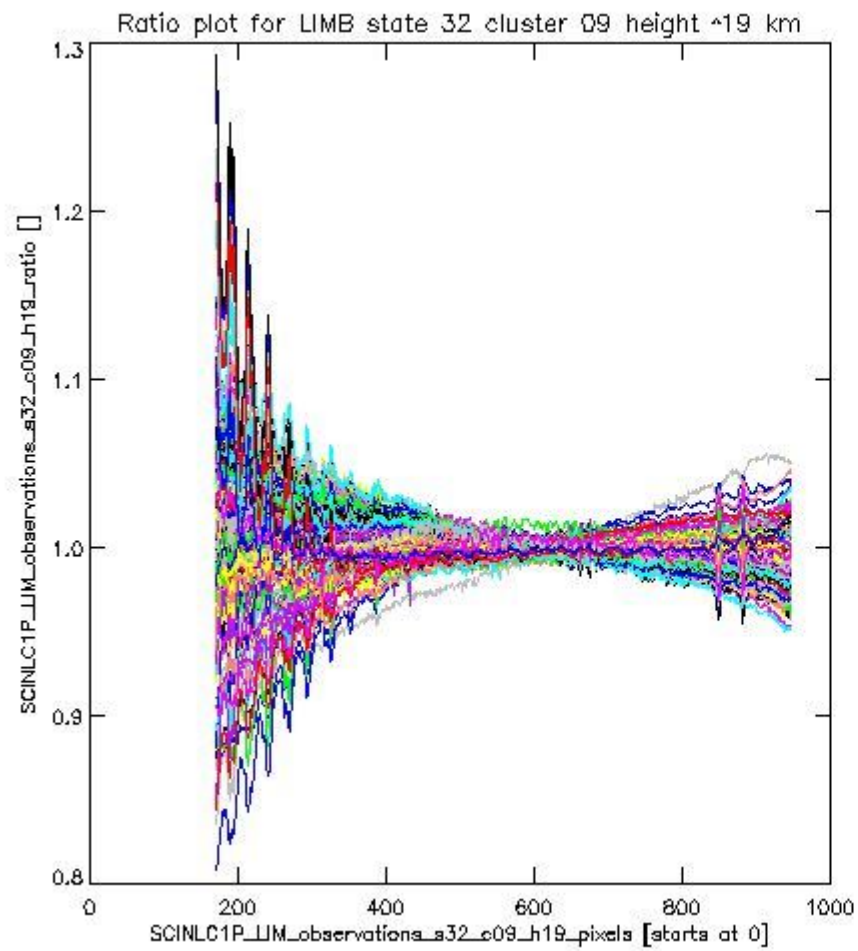
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110528_9.PNG

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	28MAY2011 08:53:25.150
Start time of last sample	28MAY2011 23:58:26.071
Reference period start time	28APR2011 00:33:43.454
Reference period stop time	26MAY2011 16:47:54.225
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	947



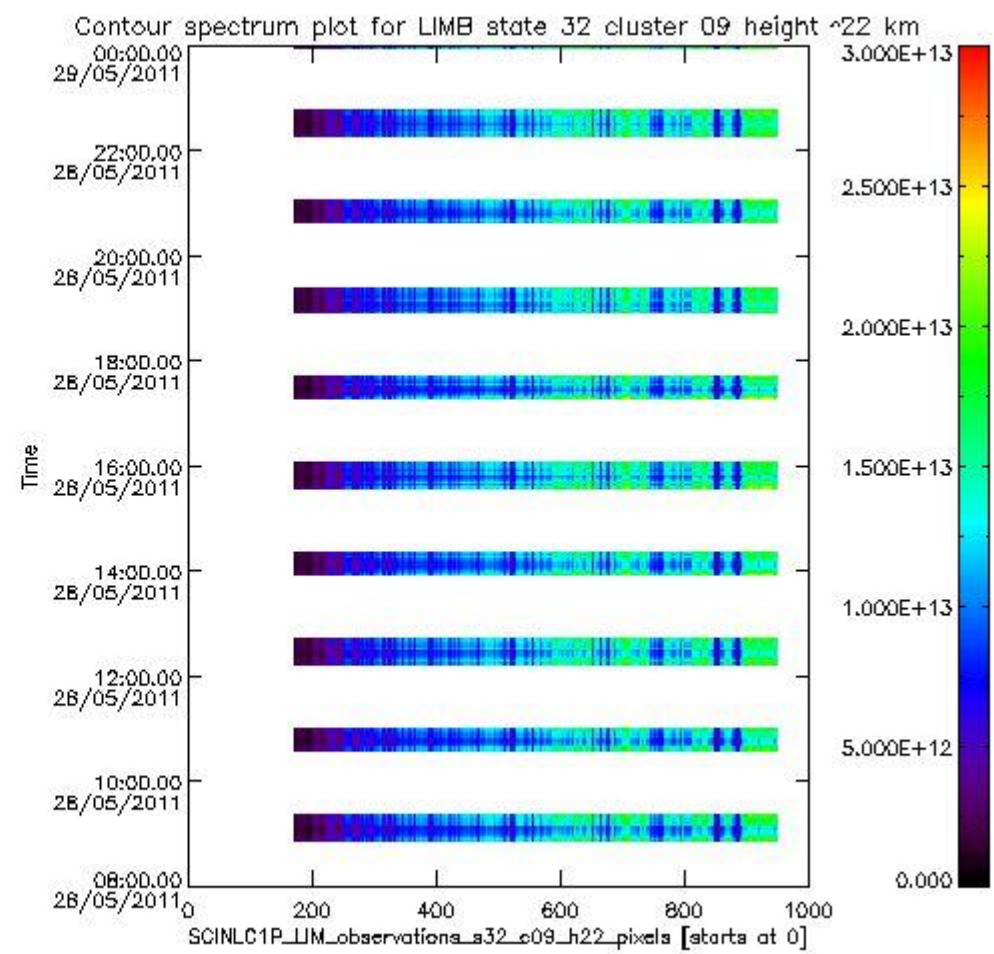
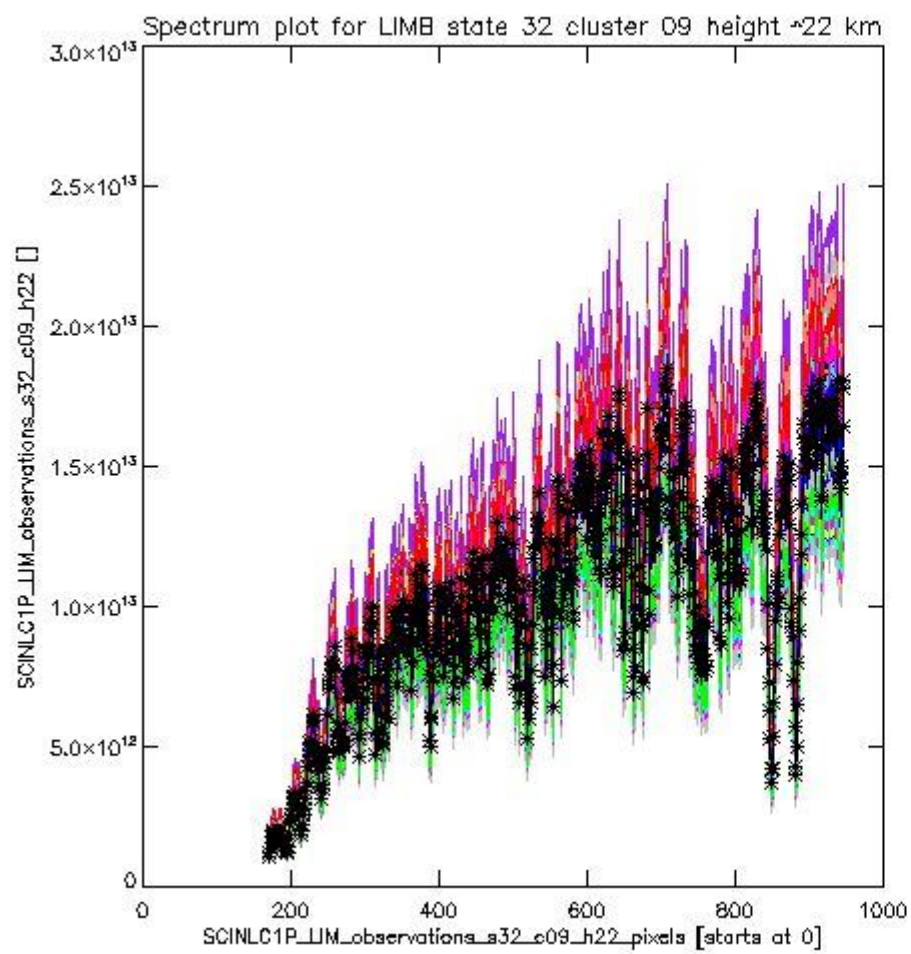
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110528_10.PNG



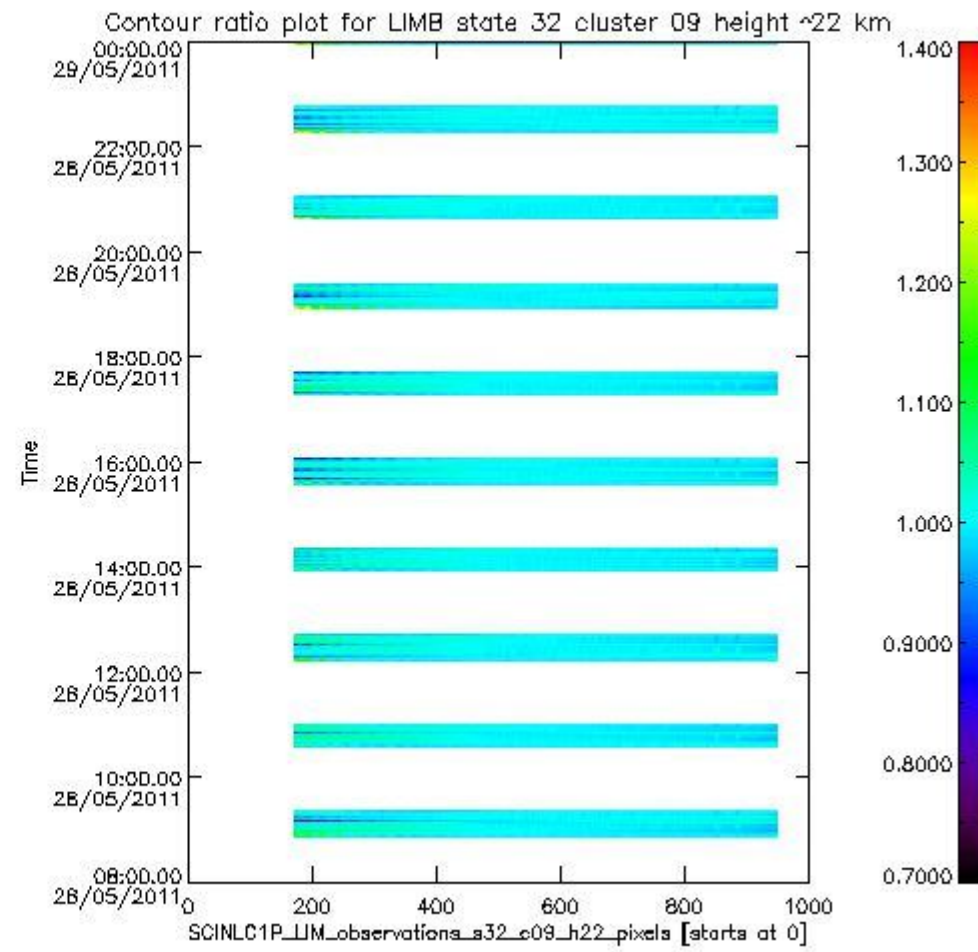
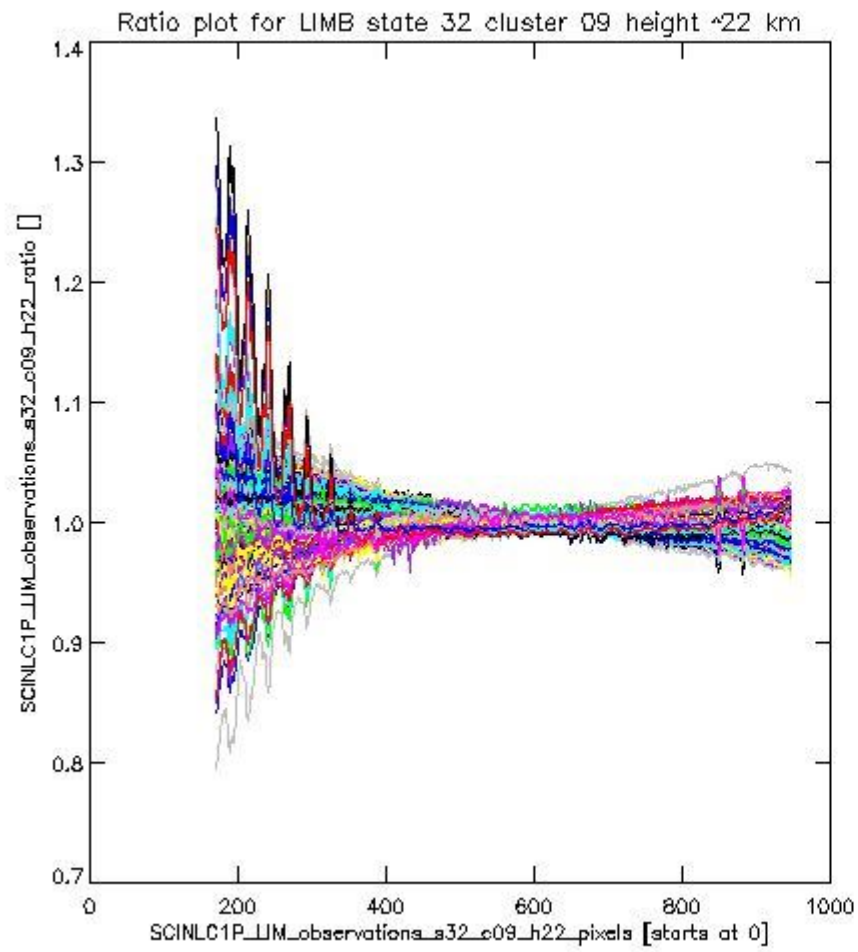
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110528_11.PNG

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	28MAY2011 08:53:25.150
Start time of last sample	28MAY2011 23:58:26.071
Reference period start time	28APR2011 00:33:43.454
Reference period stop time	26MAY2011 16:47:54.225
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	947



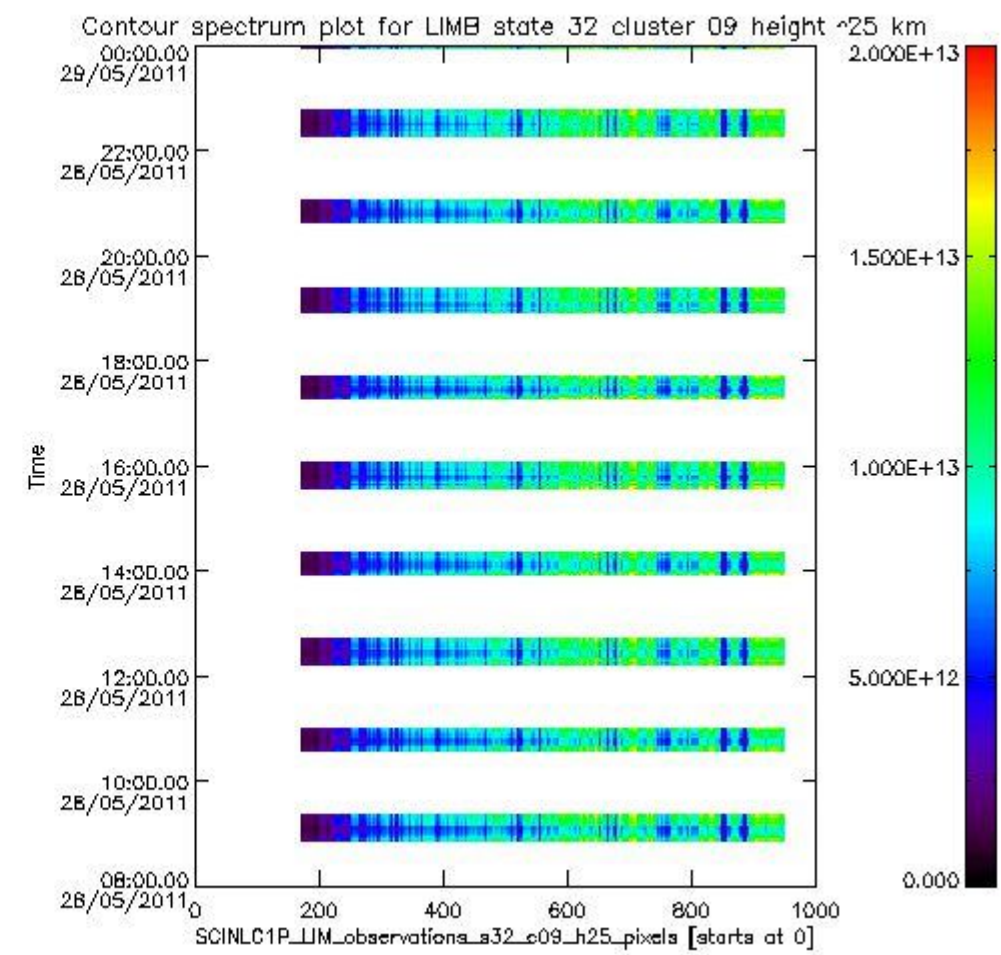
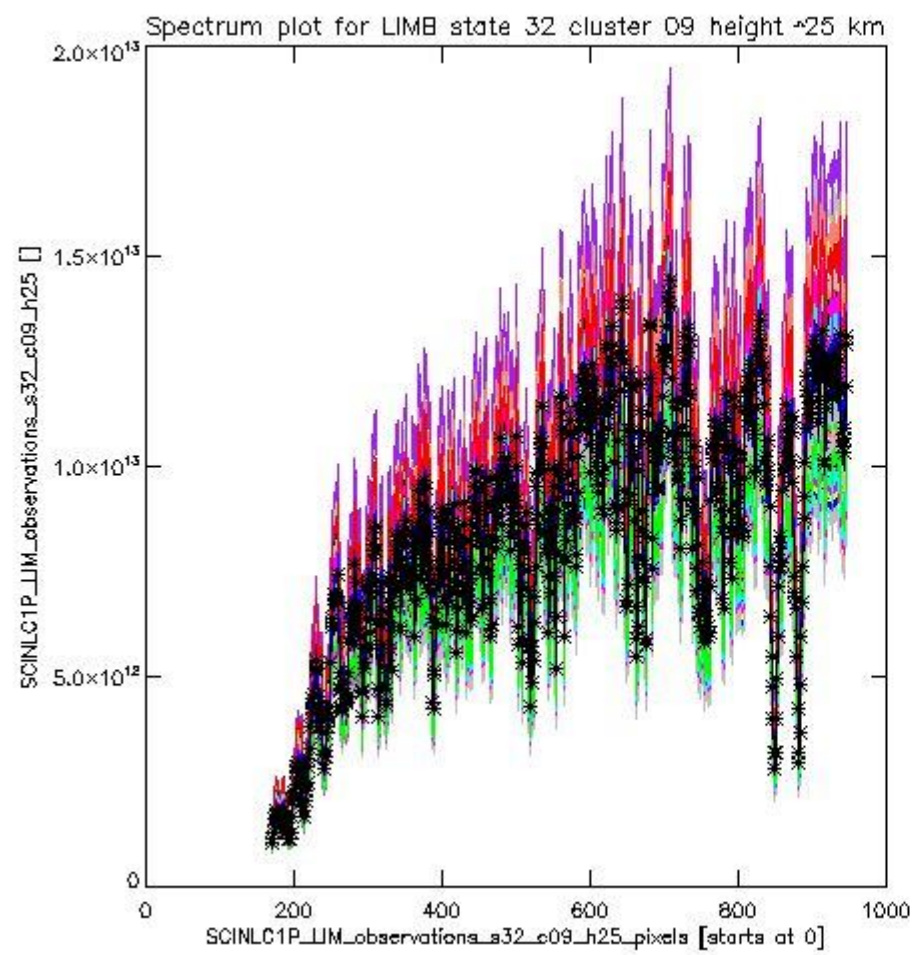
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110528_12.PNG



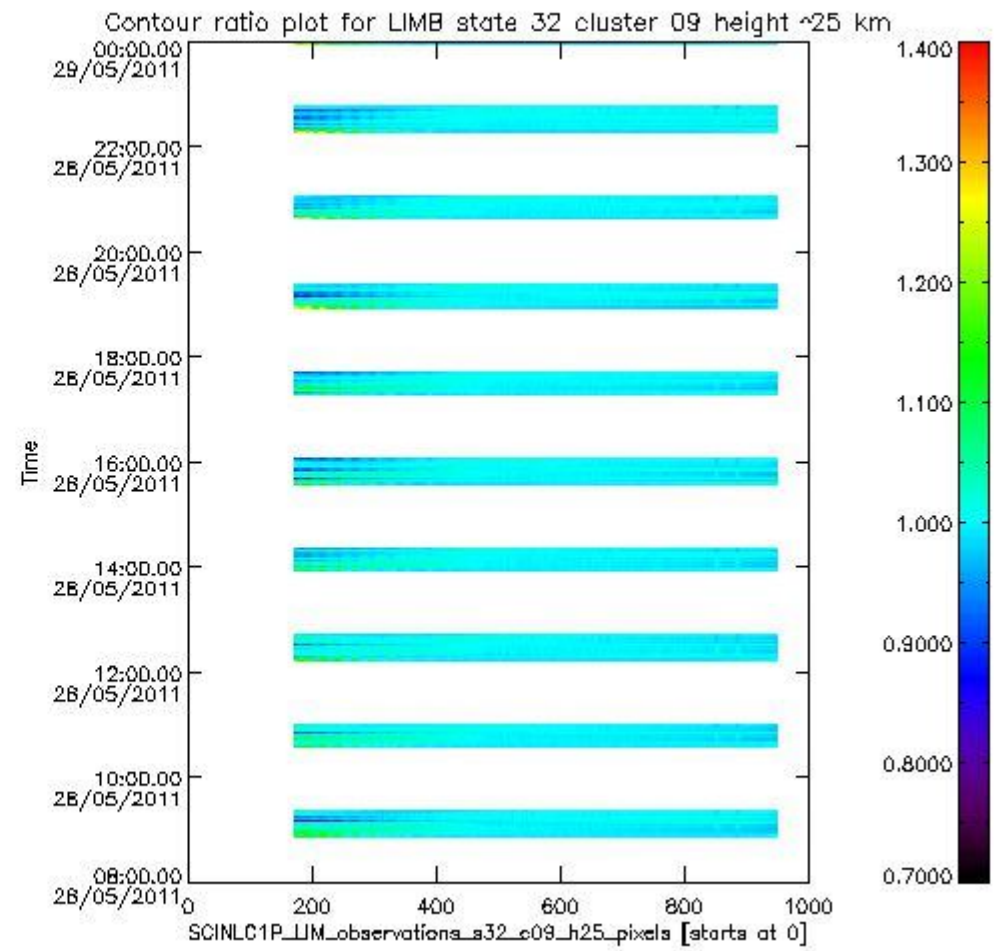
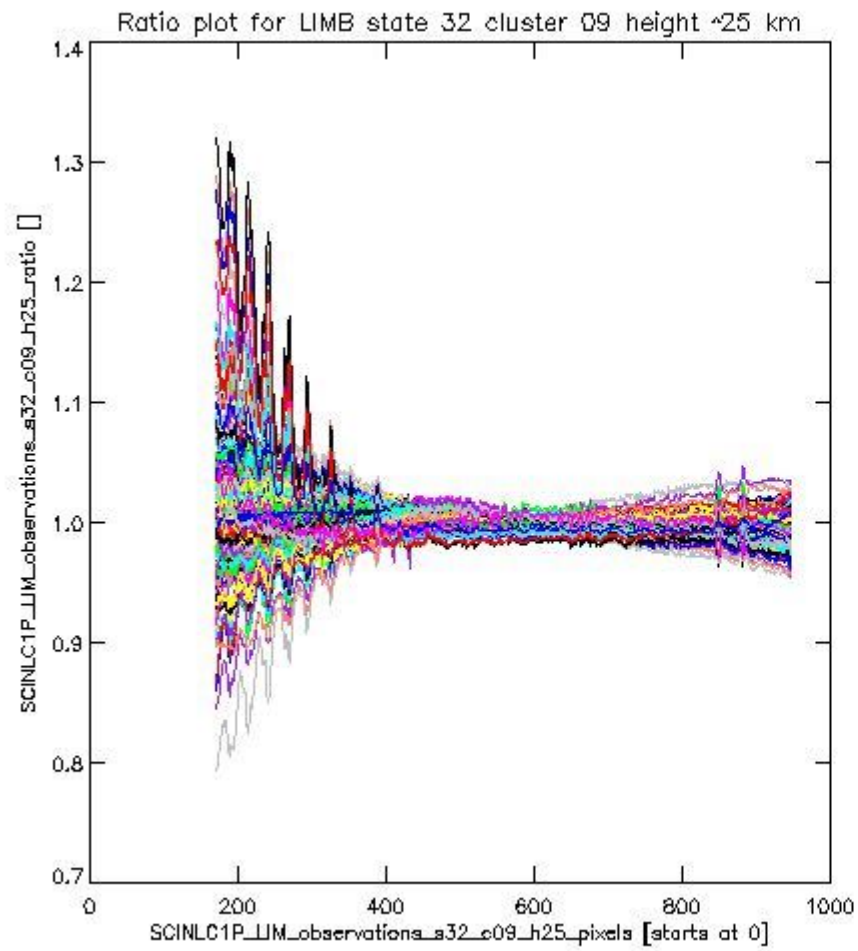
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110528_13.PNG

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	28MAY2011 08:53:25.150
Start time of last sample	28MAY2011 23:58:26.071
Reference period start time	28APR2011 00:33:43.454
Reference period stop time	26MAY2011 16:47:54.225
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	947



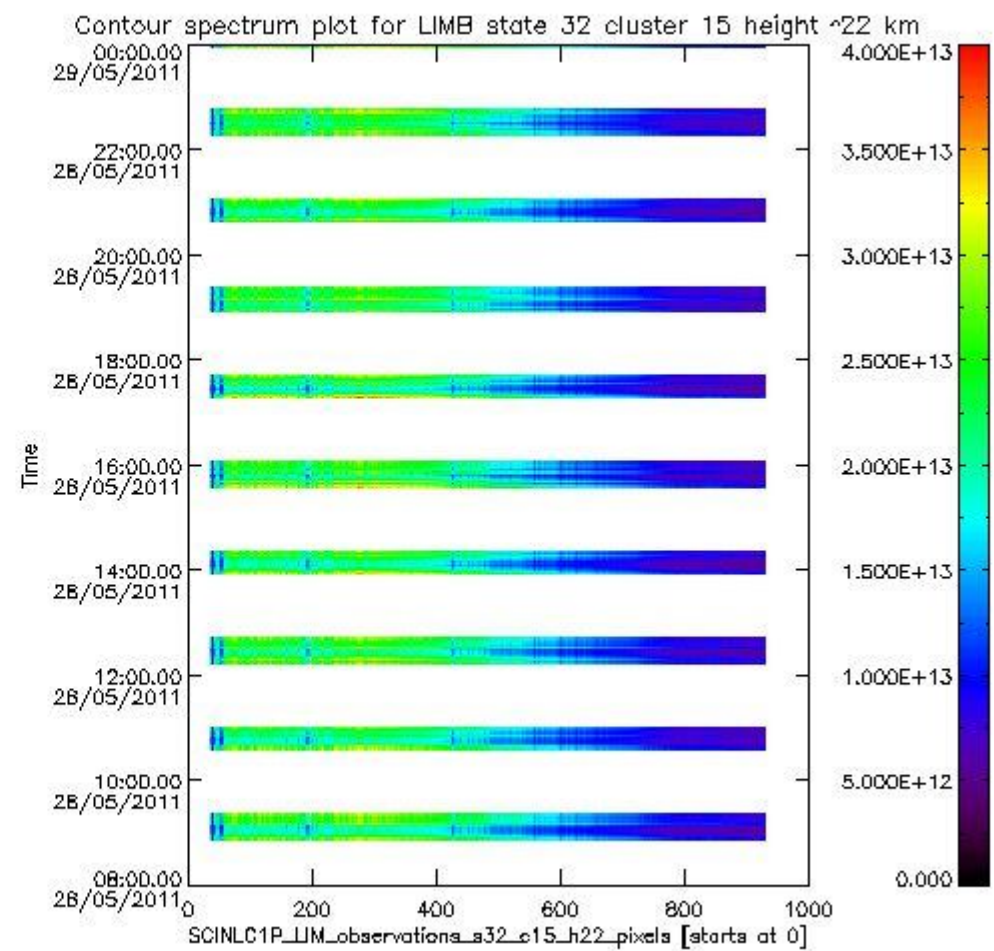
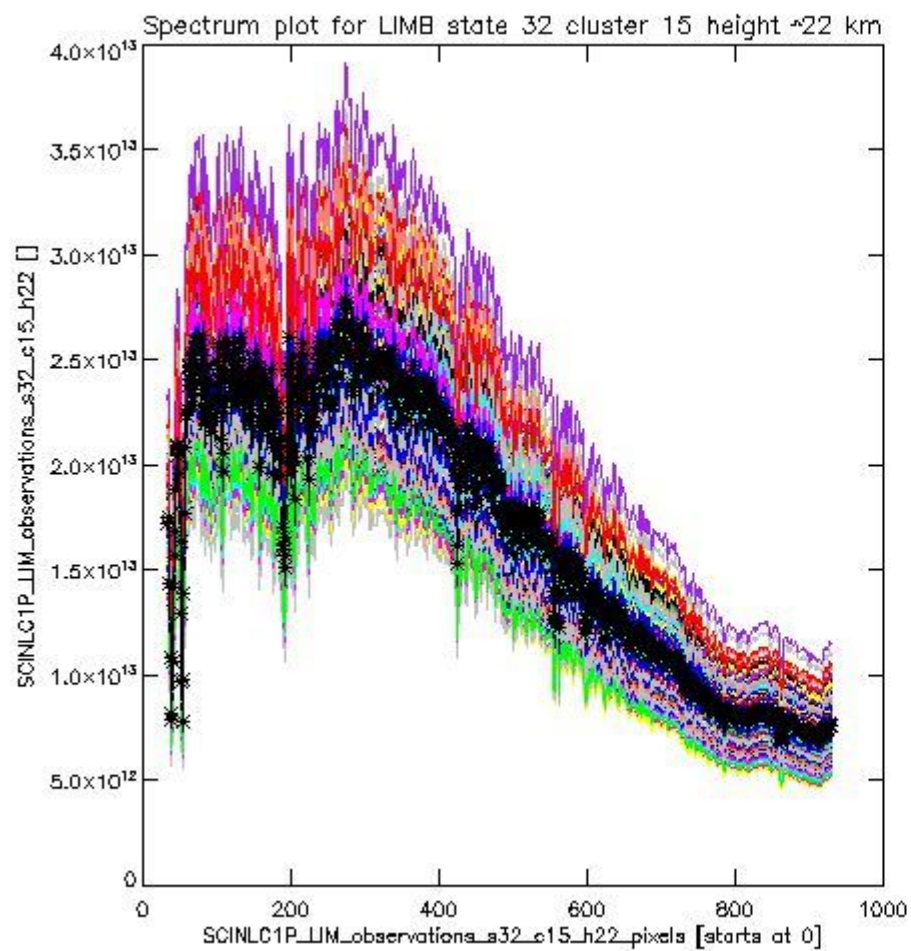
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110528_14.PNG



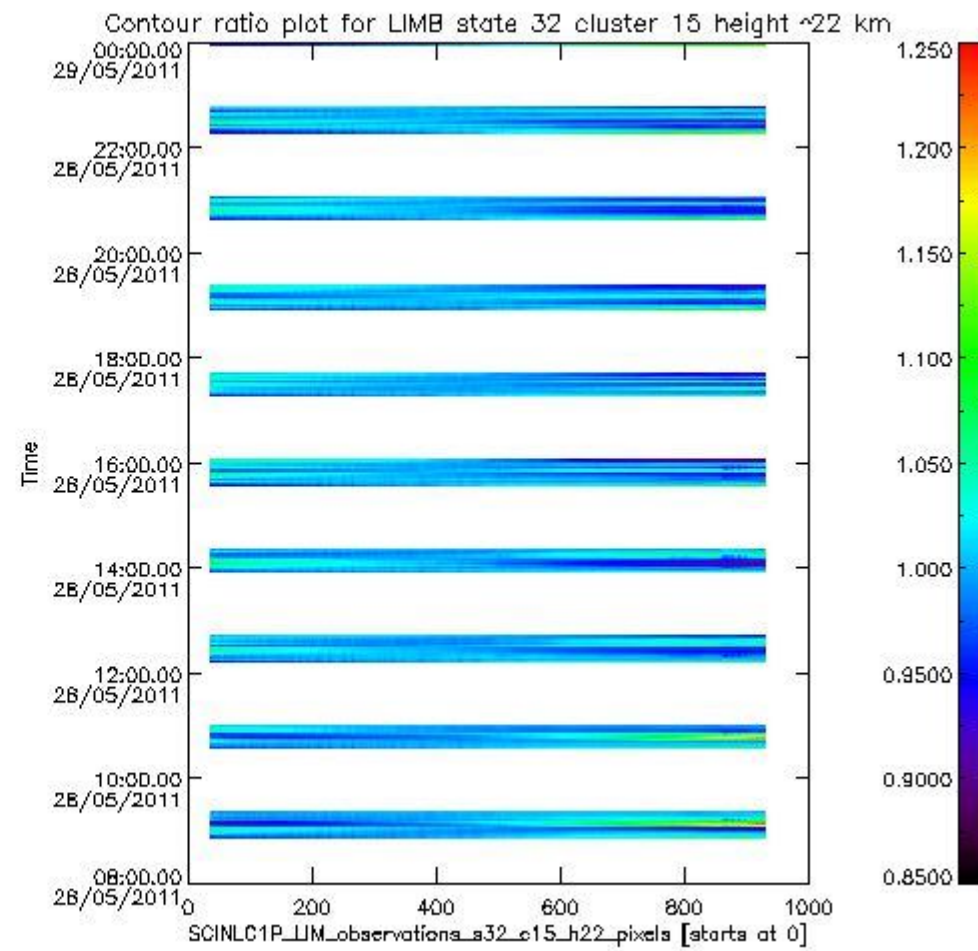
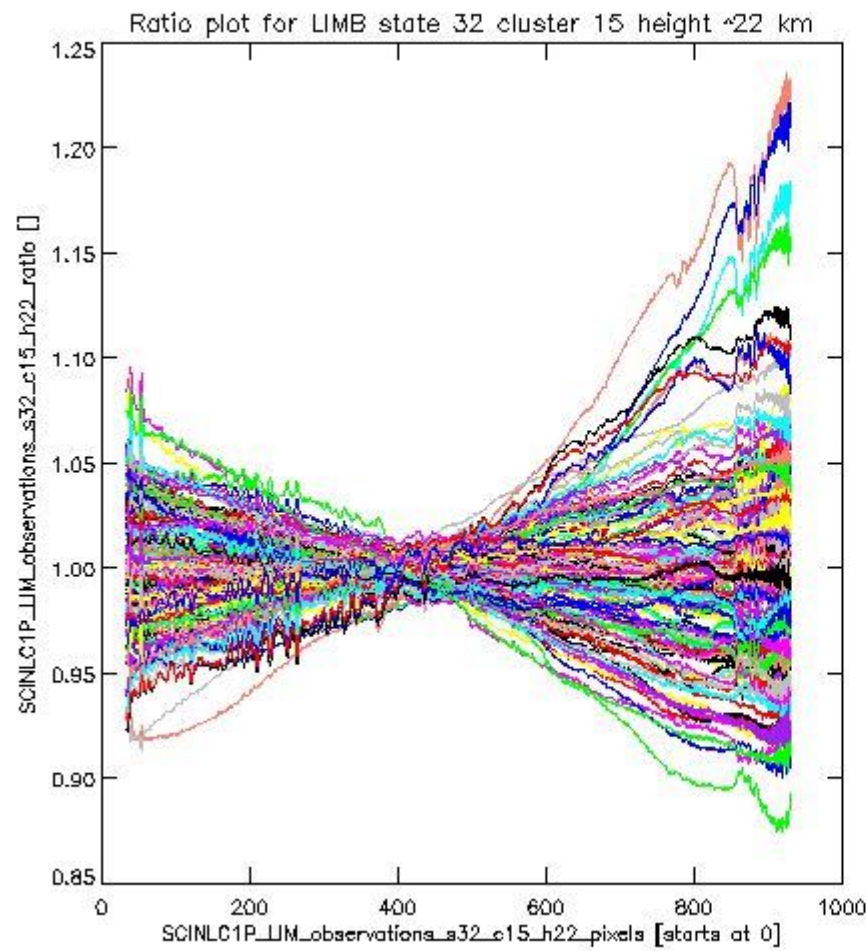
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110528_15.PNG

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	28MAY2011 08:53:25.150
Start time of last sample	28MAY2011 23:58:26.071
Reference period start time	28APR2011 00:33:43.454
Reference period stop time	26MAY2011 16:47:54.225
Channel number	3
First pixel number (starts at 0)	33
Last pixel number (starts at 0)	929



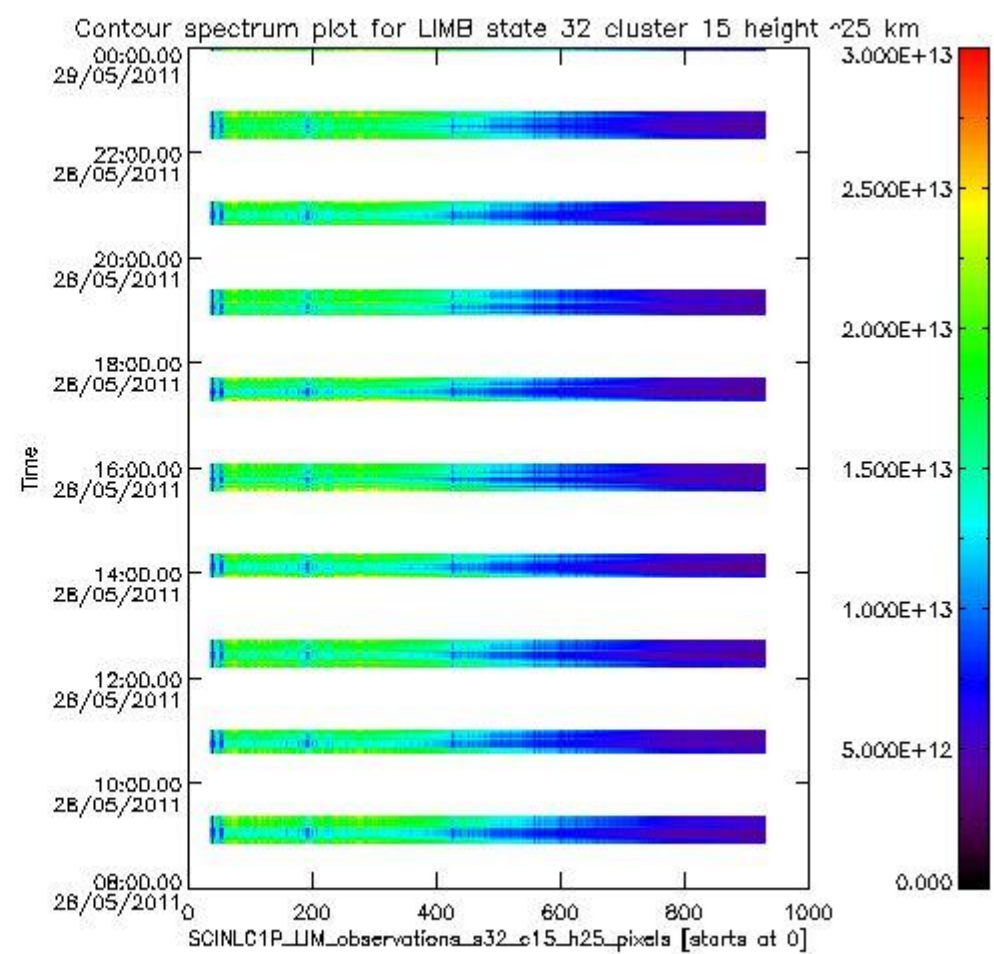
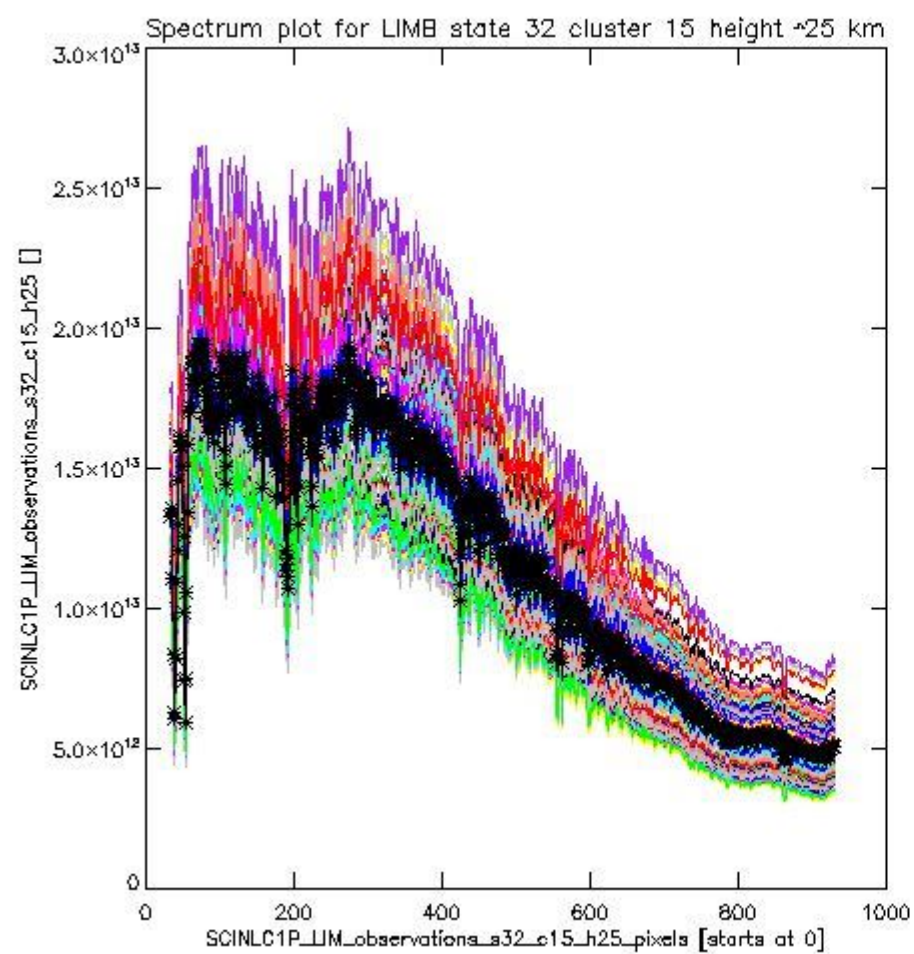
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110528_16.PNG

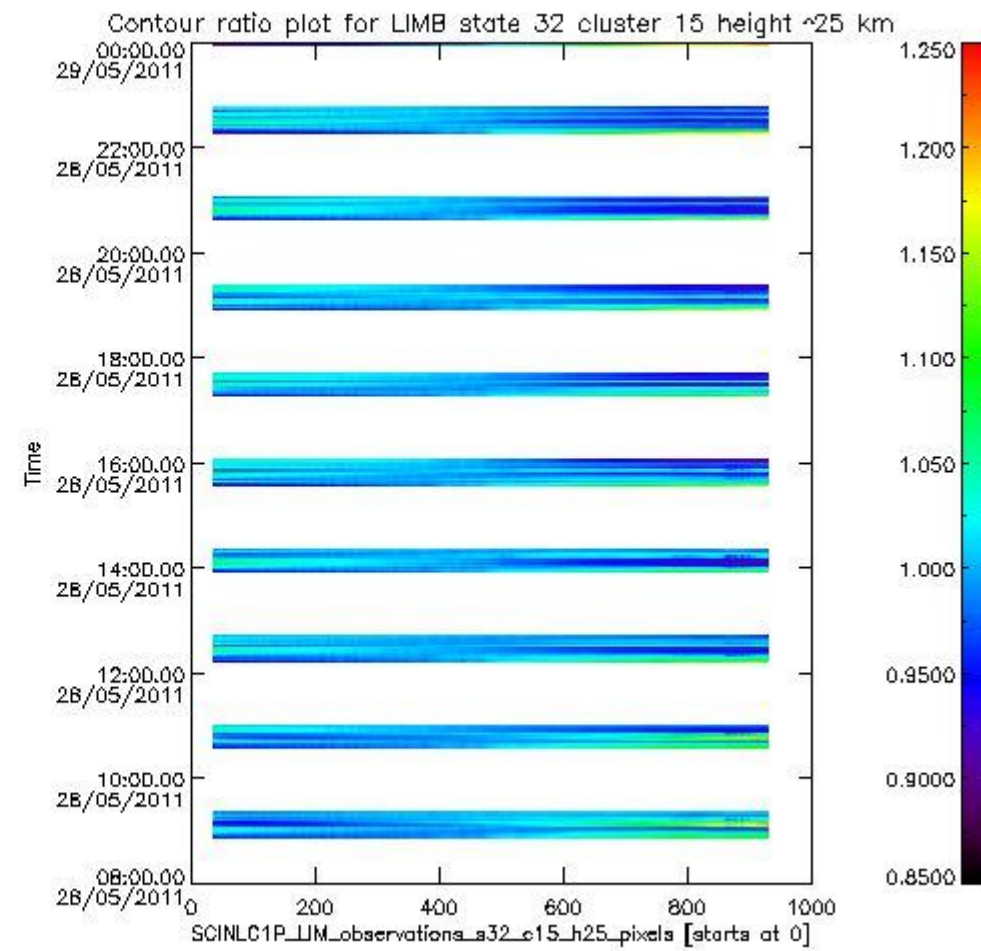
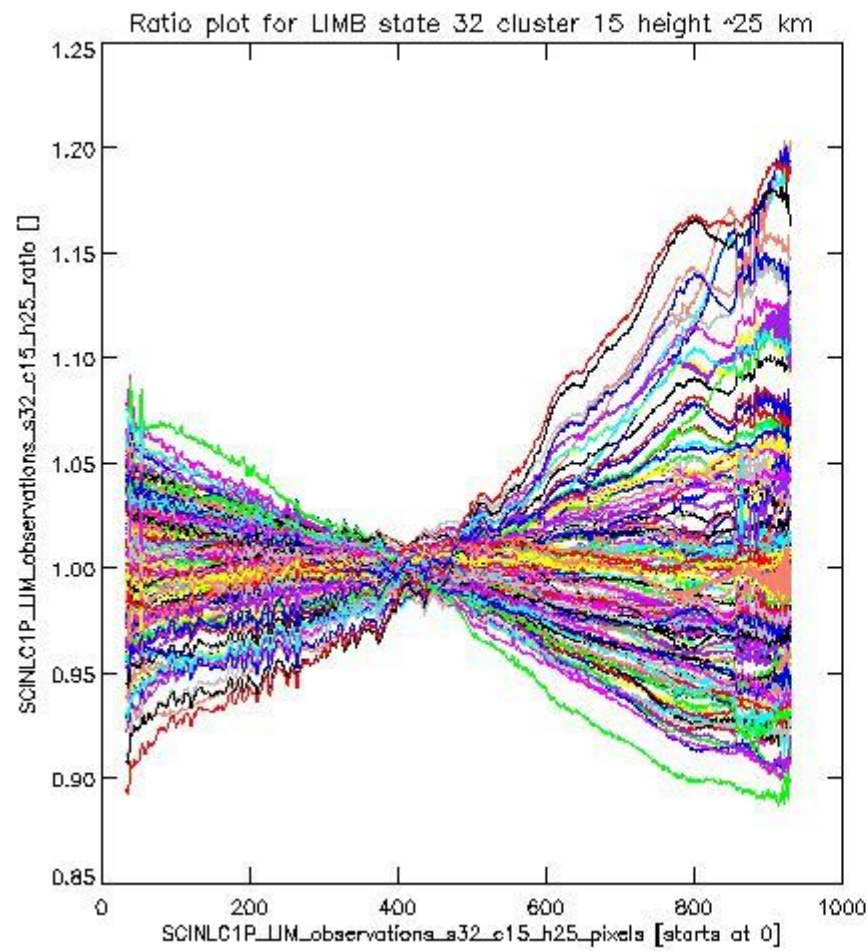


sciamachy_11b_source_packet_report_SCIA_7_04_U_20110528_17.PNG

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	28MAY2011 08:53:25.150
Start time of last sample	28MAY2011 23:58:26.071
Reference period start time	28APR2011 00:33:43.454
Reference period stop time	26MAY2011 16:47:54.225
Channel number	3
First pixel number (starts at 0)	33
Last pixel number (starts at 0)	929

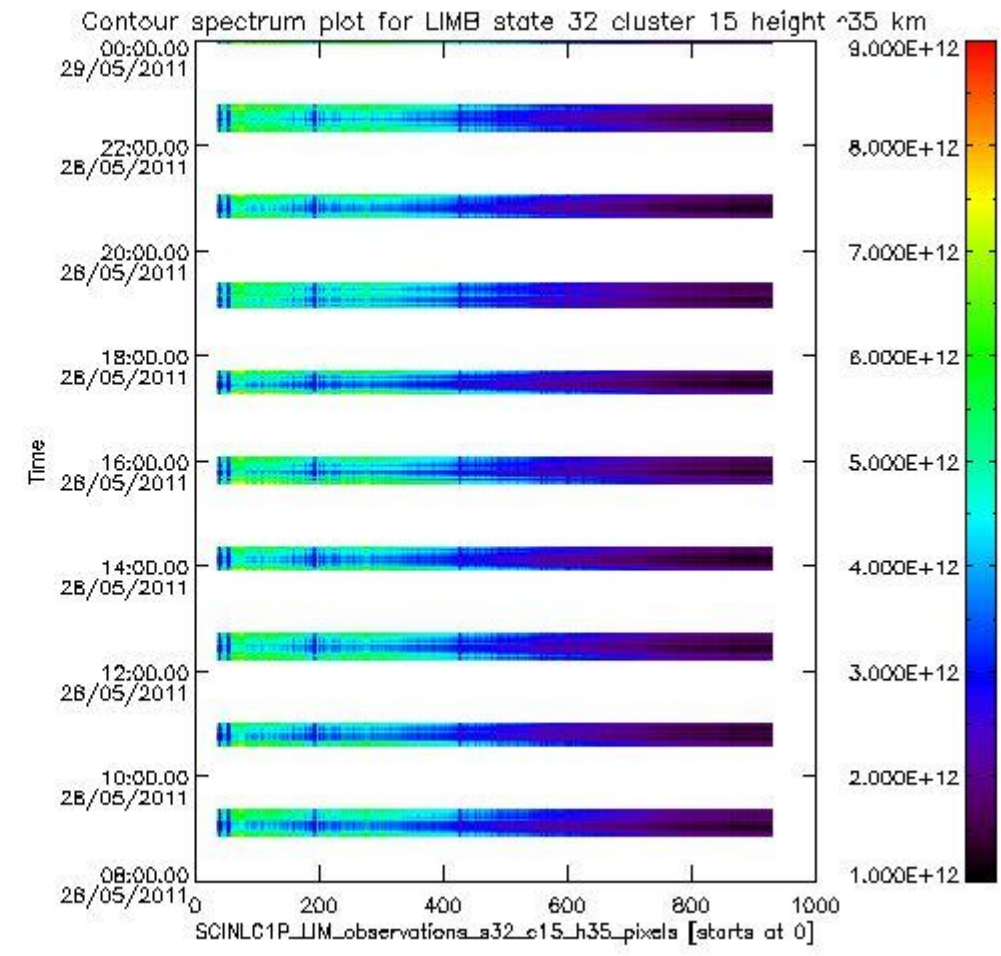
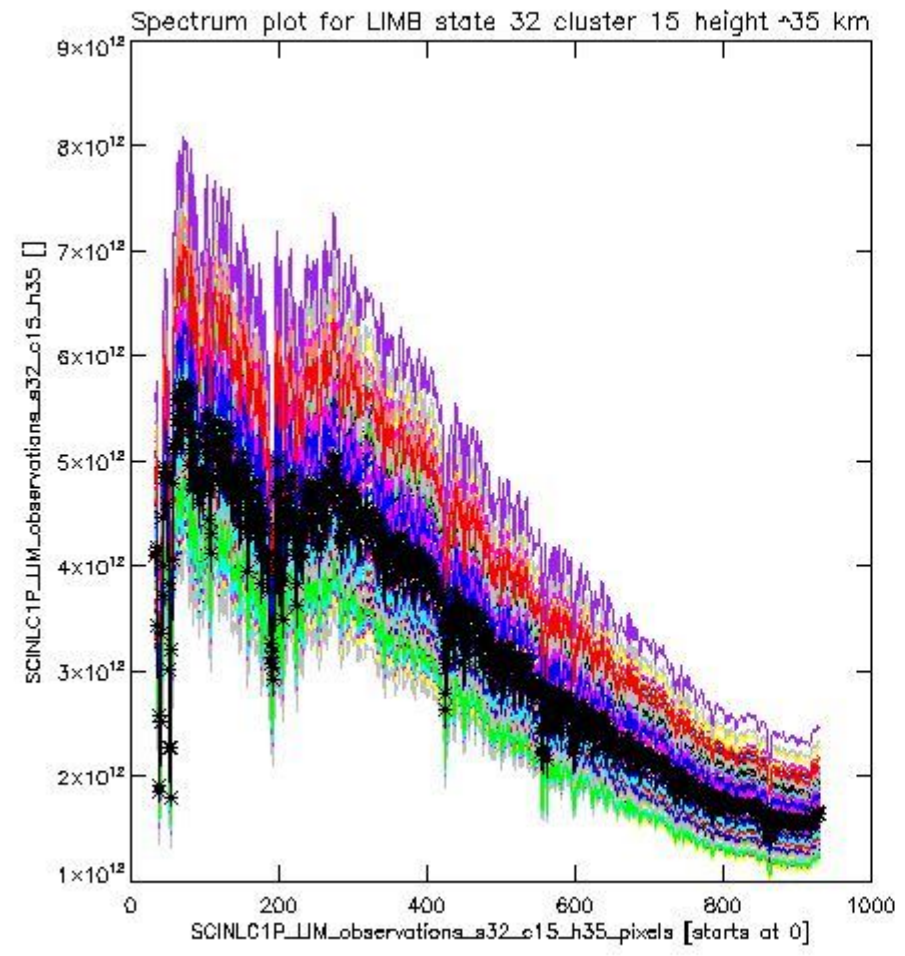




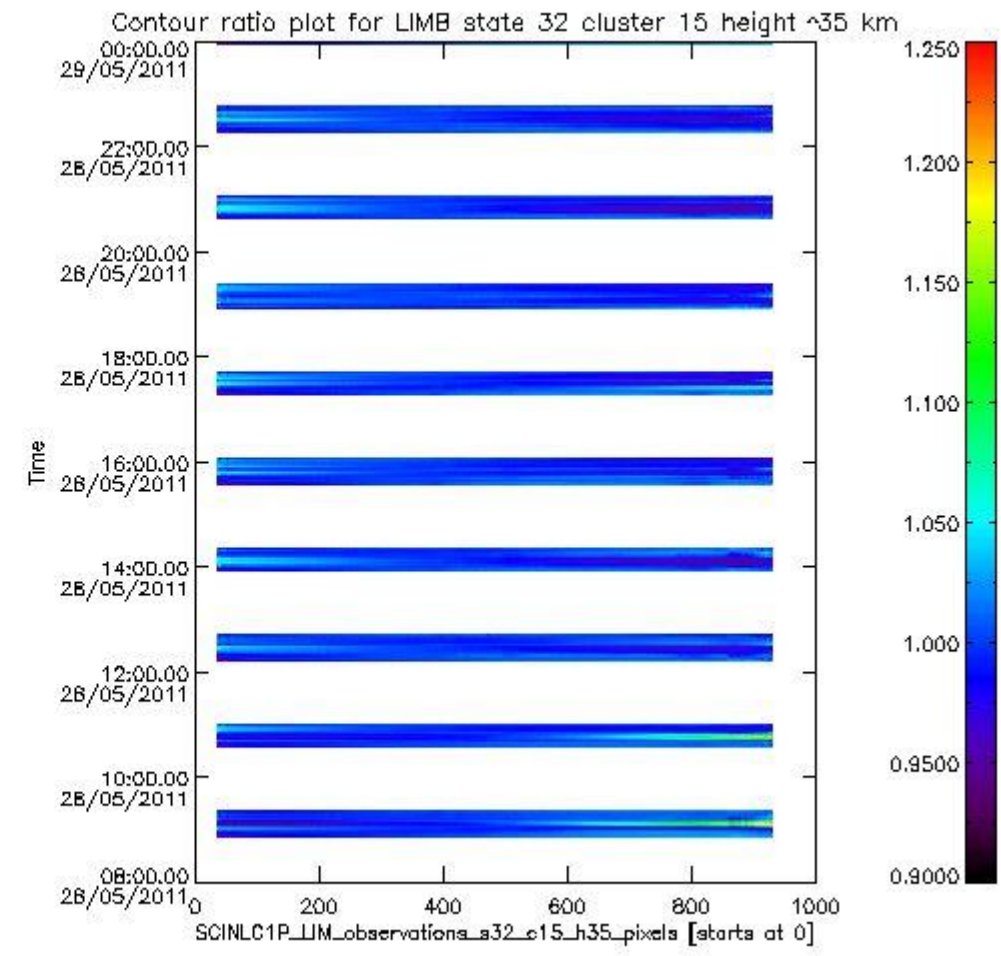
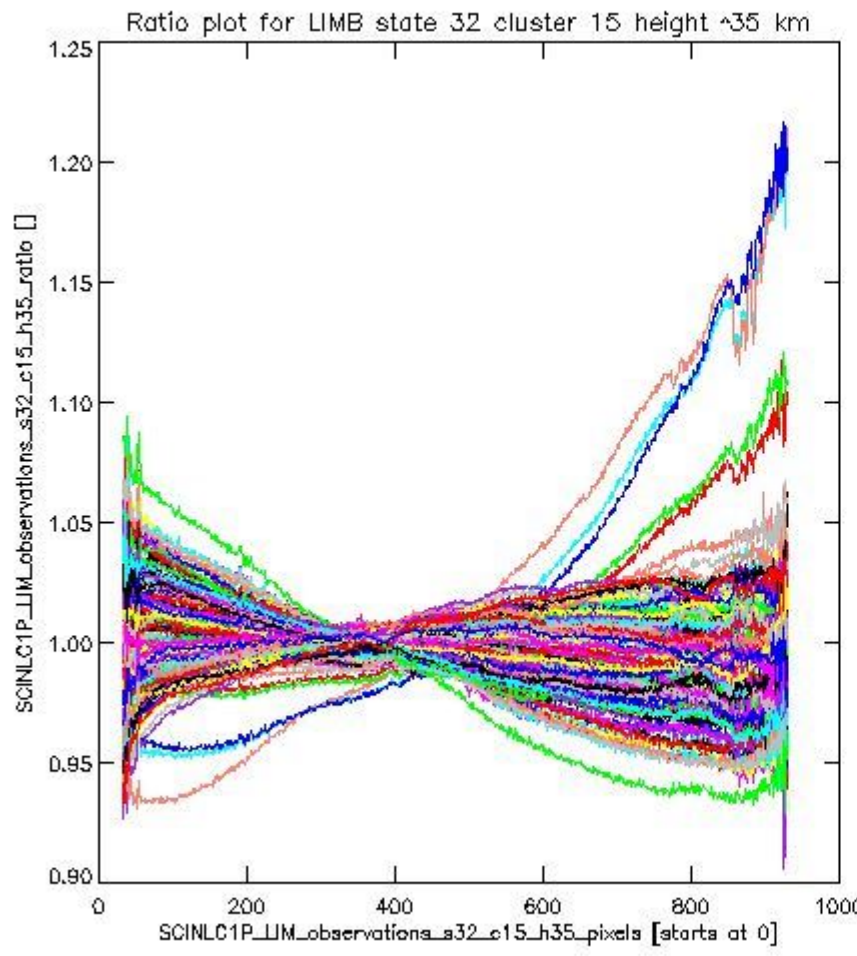
sciamachy_11b_source_packet_report_SCIA_7_04_U_20110528_19.PNG

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	28MAY2011 08:53:25.150
Start time of last sample	28MAY2011 23:58:26.071
Reference period start time	28APR2011 00:33:43.454
Reference period stop time	26MAY2011 16:47:54.225
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_20110528_20.PNG



sciamachy_11b_source_packet_report_SCIA_7_04_U_20110528_21.PNG

