

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	04APR2011 06:55:35
Data source version	SCIA/7.04-U
Processing scope for products	24MAR2011 00:00:00 to 25MAR2011 00:00:00
Start time of first product within scope	24MAR2011 10:18:27
Stop time of last product within scope	25MAR2011 00:35:07
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	24MAR2011 12:16:29.420	24MAR2011 23:58:58.605
1	NADIR	07	09	N/A	24MAR2011 12:16:29.420	24MAR2011 23:58:58.605
2	NADIR	07	15	N/A	24MAR2011 12:16:29.420	24MAR2011 23:58:58.605
3	NADIR	07	24	N/A	24MAR2011 12:16:29.420	24MAR2011 23:58:58.605
4	NADIR	07	55	N/A	24MAR2011 12:16:29.420	24MAR2011 23:58:58.605
5	LIMB	32	09	~19 km	24MAR2011 12:01:16.041	24MAR2011 23:58:04.421
6	LIMB	32	09	~22 km	24MAR2011 12:01:16.041	24MAR2011 23:58:04.421
7	LIMB	32	09	~25 km	24MAR2011 12:01:16.041	24MAR2011 23:58:04.421
8	LIMB	32	15	~22 km	24MAR2011 12:01:16.041	24MAR2011 23:58:04.421
9	LIMB	32	15	~25 km	24MAR2011 12:01:16.041	24MAR2011 23:58:04.421
10	LIMB	32	15	~35 km	24MAR2011 12:01:16.041	24MAR2011 23:58:04.421

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	#incmpl_drk	Decont
0	SCI_NLC_1CUDPA20110324_101827_000044713100_00396_47393_5698.N1	24MAR2011 10:18:27	24MAR2011 11:32:59	0	0	0	0	0	2	0	0	
1	SCI_NLC_1CUDPA20110324_113303_000060093100_00397_47394_5696.N1	24MAR2011 11:43:18	24MAR2011 12:53:47	0	36	30	0	0	1	0	0	
2	SCI_NLC_1CUDPA20110324_131316_000060093100_00398_47395_5697.N1	24MAR2011 13:23:31	24MAR2011 14:33:46	0	35	31	0	0	1	0	0	
3	SCI_NLC_1CUDPA20110324_145330_000060093100_00399_47396_5700.N1	24MAR2011 15:03:45	24MAR2011 16:14:14	0	36	30	0	0	1	0	0	
4	SCI_NLC_1CUDPA20110324_163343_000060093100_00400_47397_5702.N1	24MAR2011 16:43:58	24MAR2011 17:54:13	0	35	31	0	0	1	0	0	
5	SCI_NLC_1CUDPA20110324_181357_000060093100_00401_47398_5703.N1	24MAR2011 18:24:12	24MAR2011 19:34:58	0	36	30	0	1	1	0	0	

6	SCI_NLC_1CUDPA20110324_195410_000060093100_00402_47399_5705.N1	24MAR2011 20:04:26	24MAR2011 21:14:57	0	35	31	0	1	1	0	0	
7	SCI_NLC_1CUDPA20110324_213424_000060093100_00403_47400_5708.N1	24MAR2011 21:44:39	24MAR2011 22:55:08	0	36	30	0	0	1	0	0	
8	SCI_NLC_1CUDPA20110324_231437_000053523100_00404_47401_5709.N1	24MAR2011 23:24:53	25MAR2011 00:35:07	0	35	31	0	0	2	0	0	

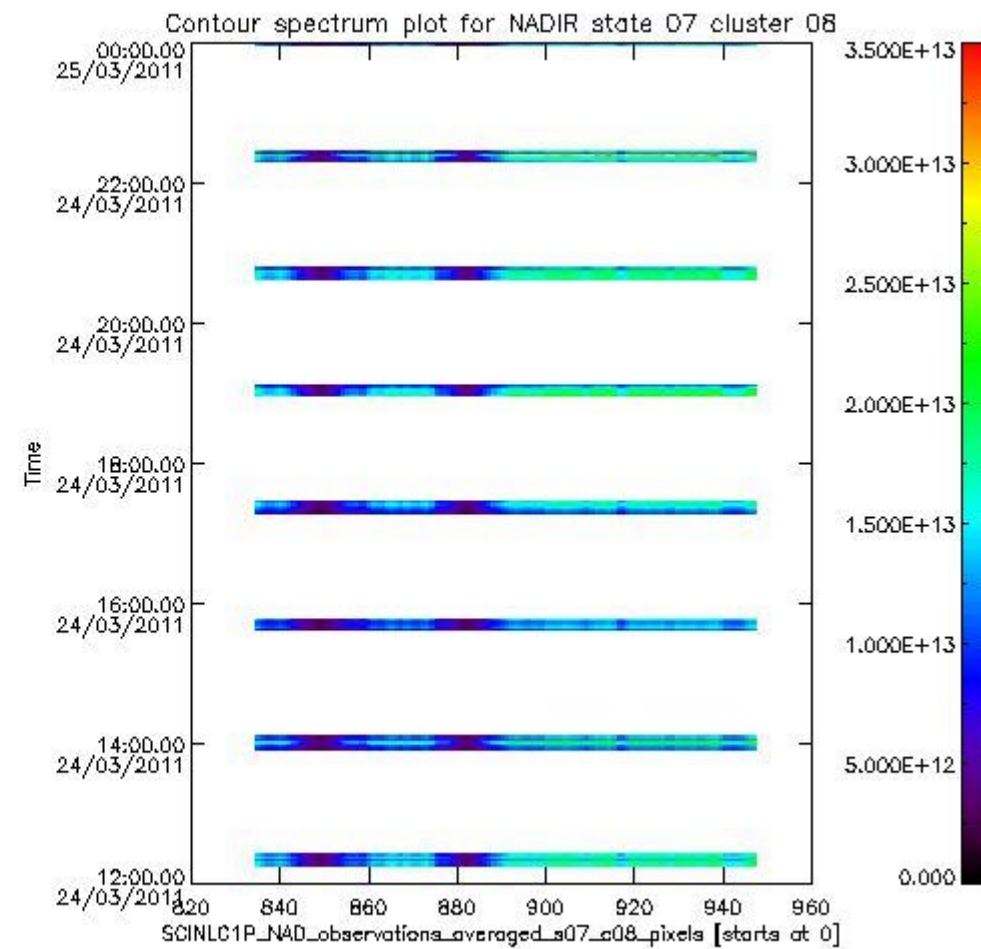
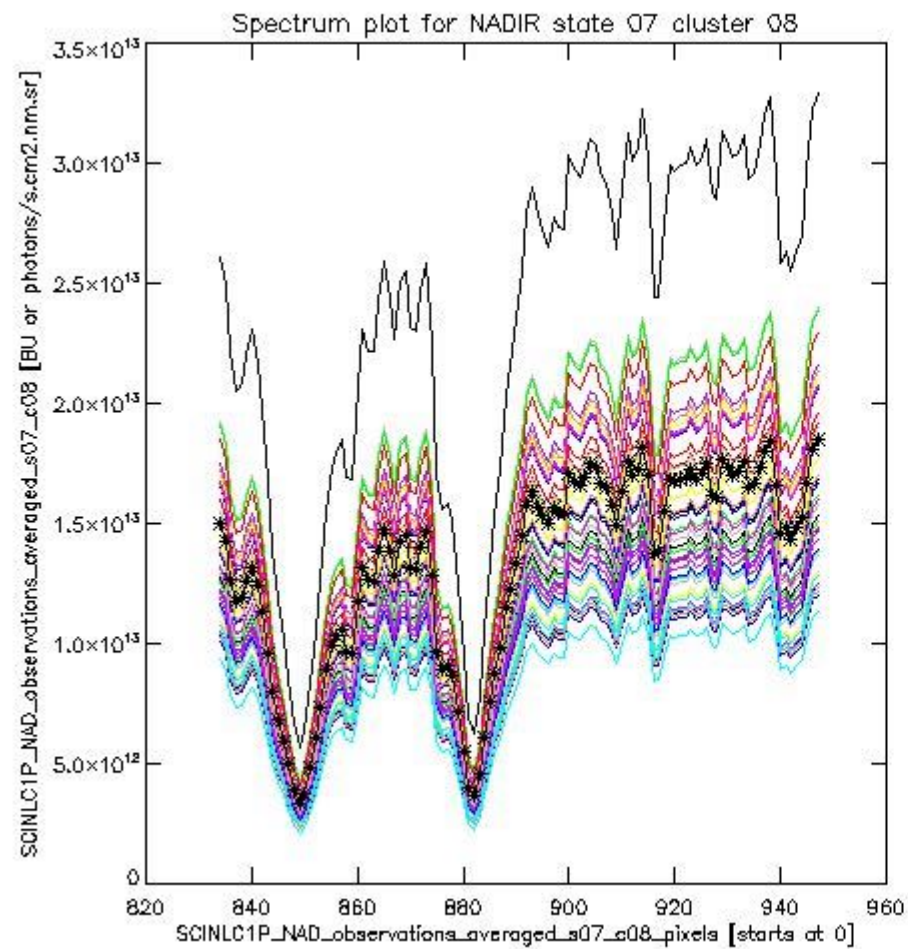
1.2 Source packet monitoring

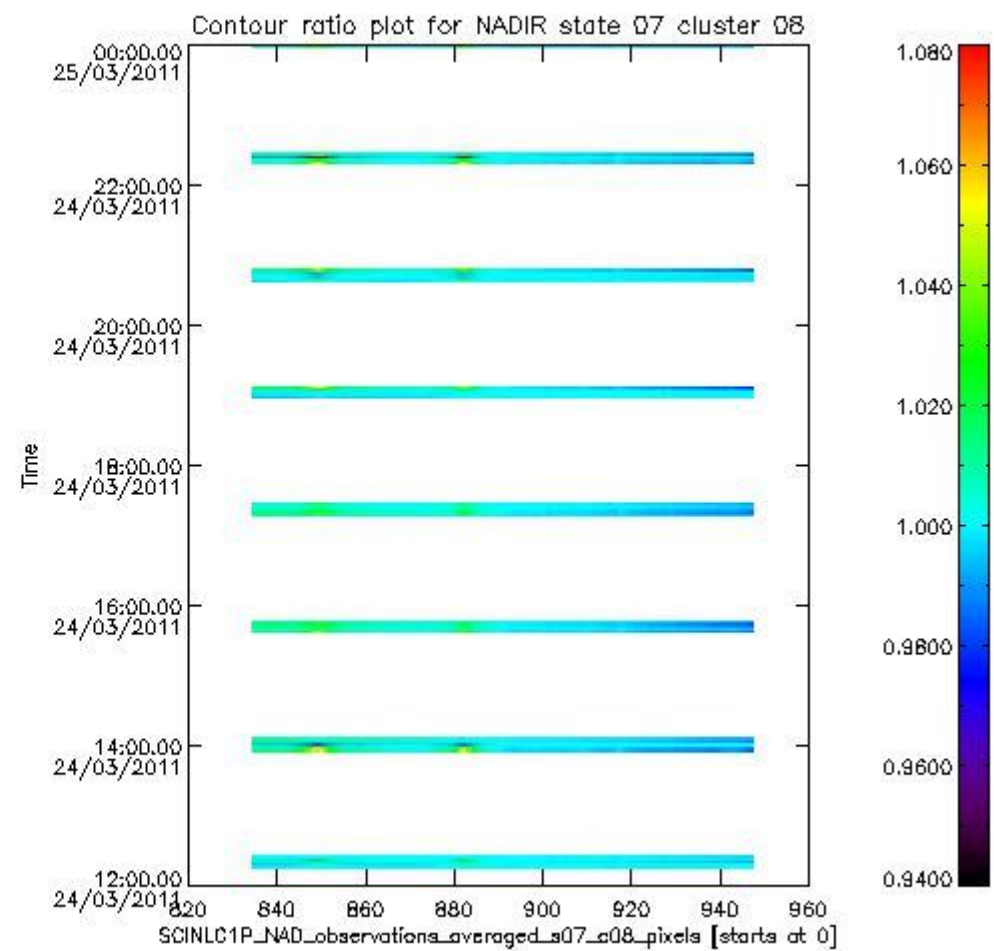
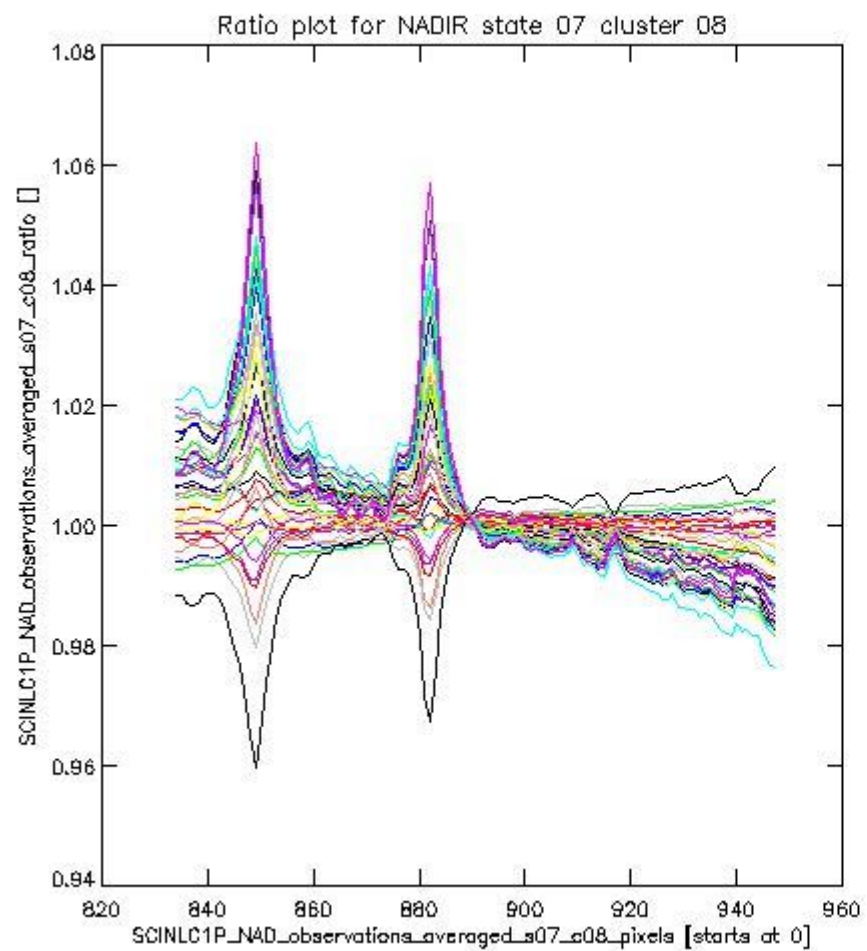
This section shows figures for each of the monitored source packet types listed in the Source Packet Summary section. For each mode-state-cluster(-height) combination the following plots are shown:

- 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	24MAR2011 12:16:29.420
Start time of last sample	24MAR2011 23:58:58.605
Reference period start time	22FEB2011 00:37:40.614
Reference period stop time	22MAR2011 20:19:31.839
Channel number	2
First pixel number (starts at 0)	834
Last pixel number (starts at 0)	947

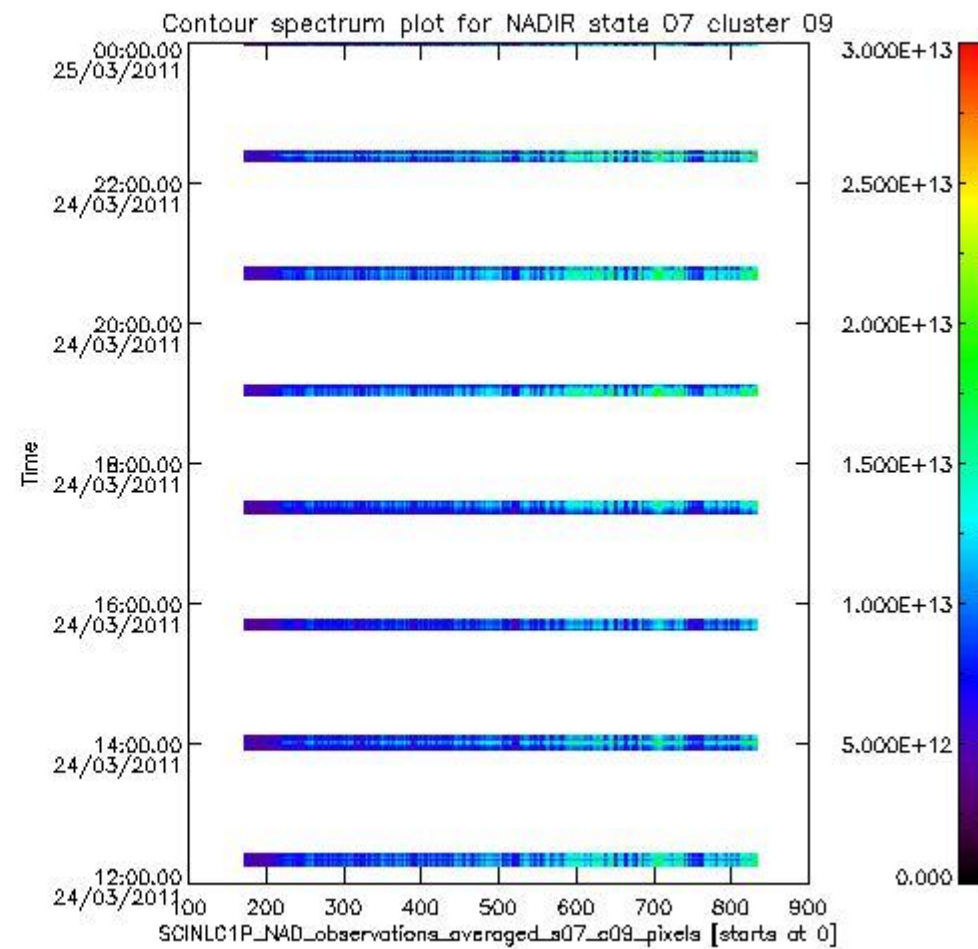
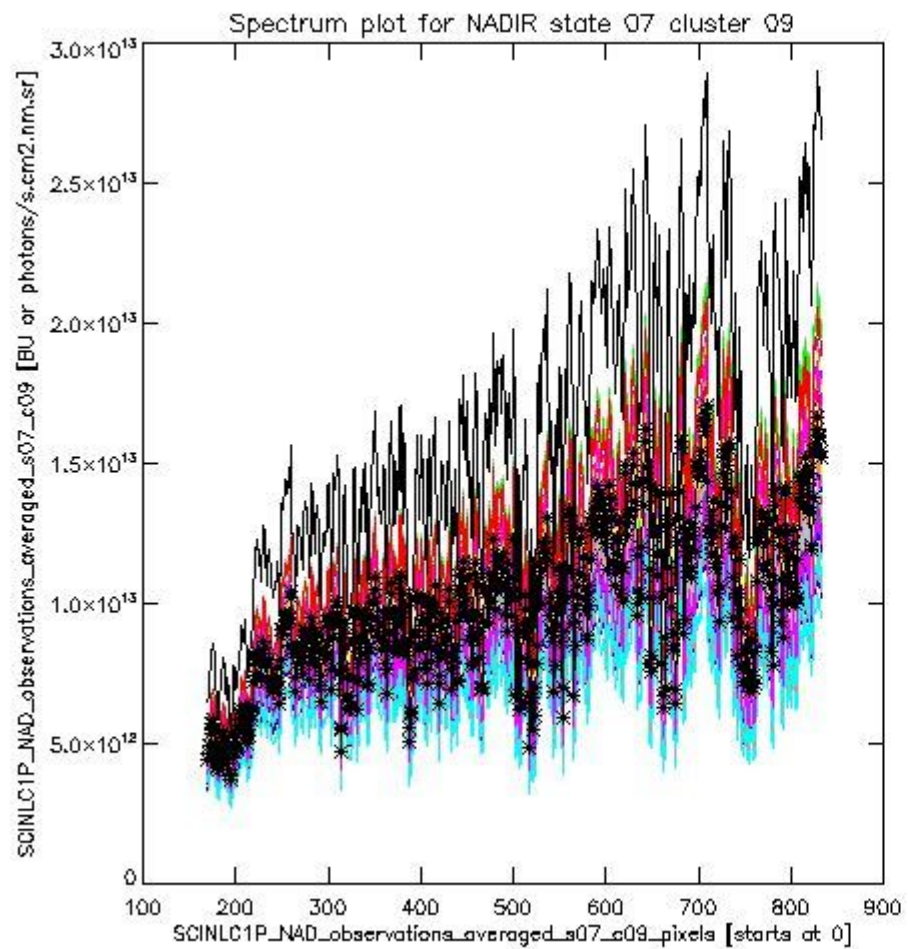




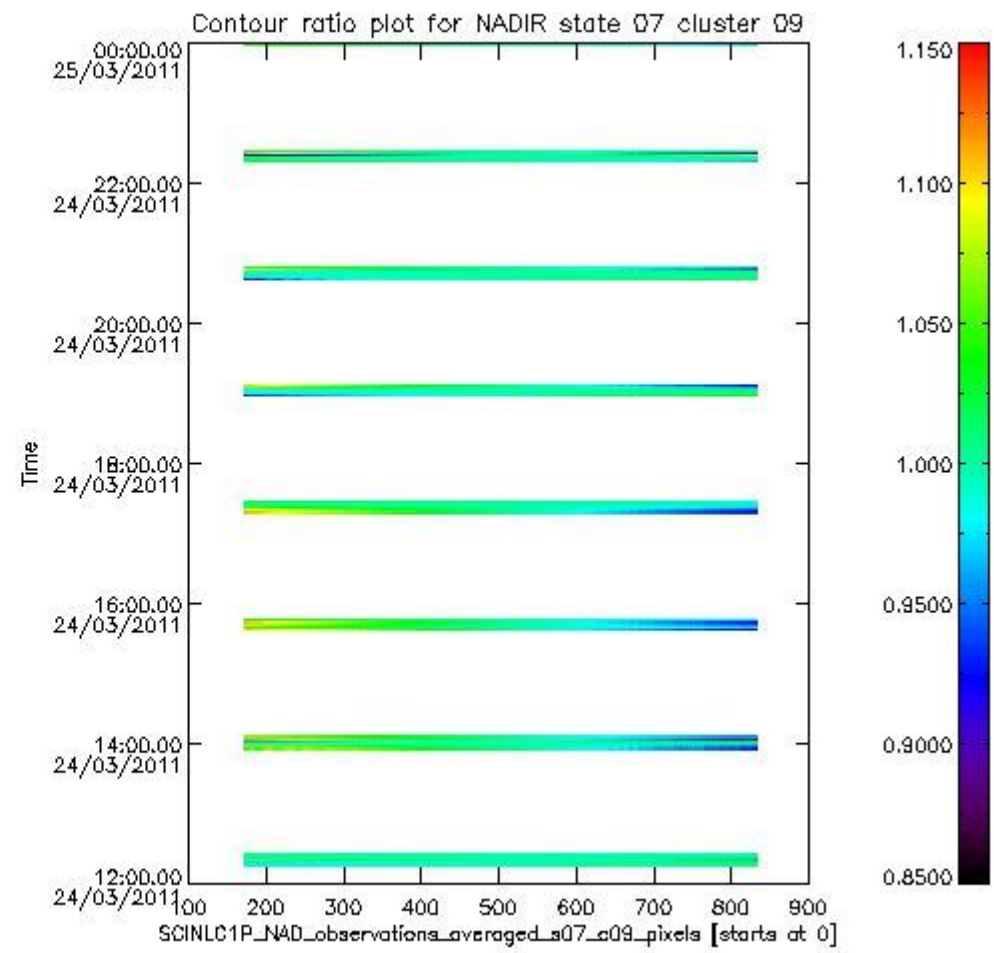
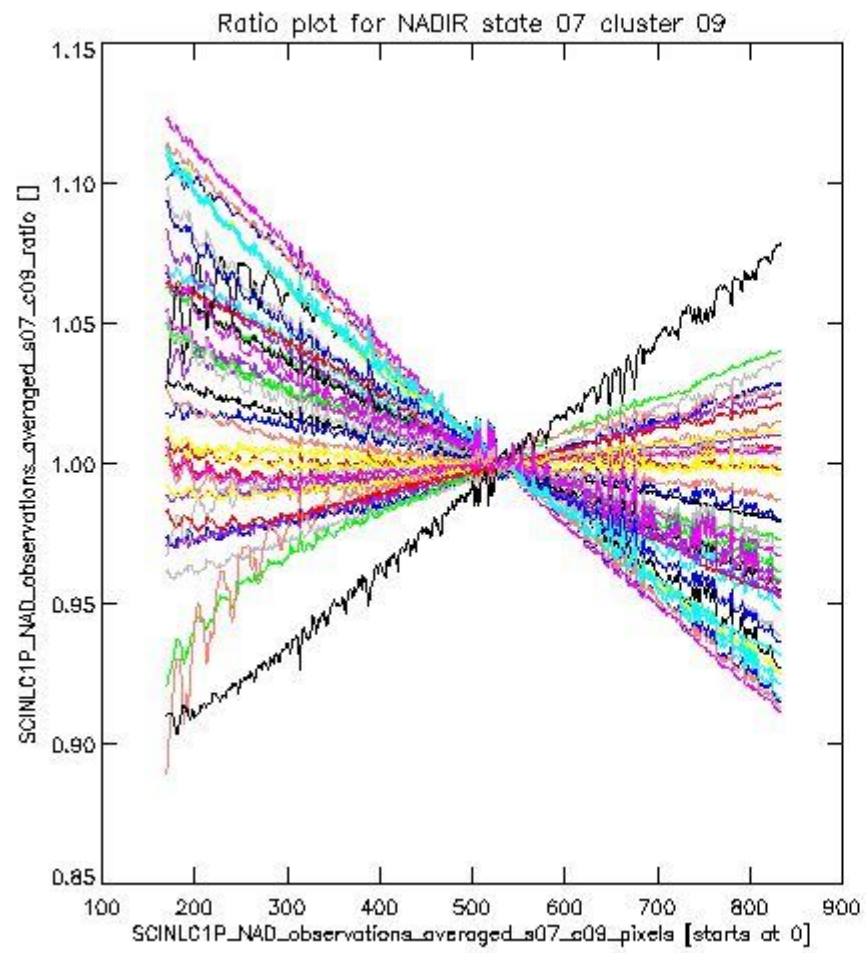
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110324_1.PNG

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	24MAR2011 12:16:29.420
Start time of last sample	24MAR2011 23:58:58.605
Reference period start time	22FEB2011 00:37:40.614
Reference period stop time	22MAR2011 20:19:31.839
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	833



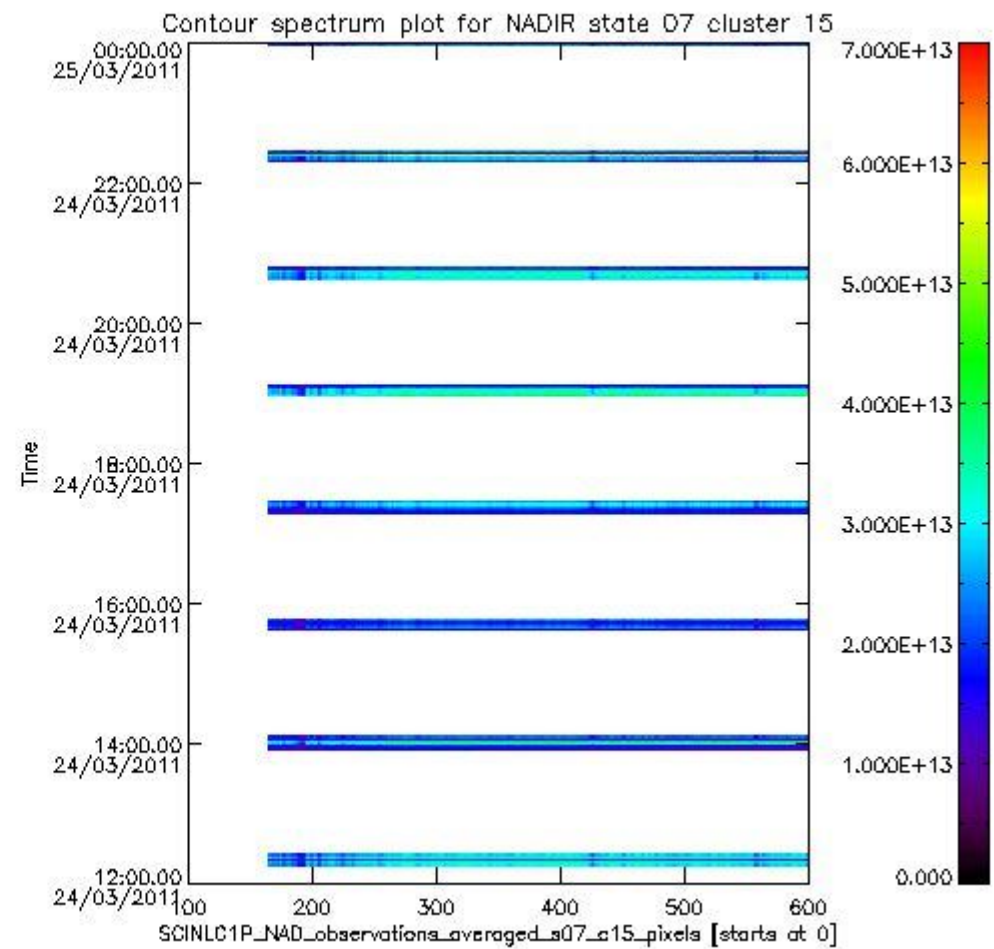
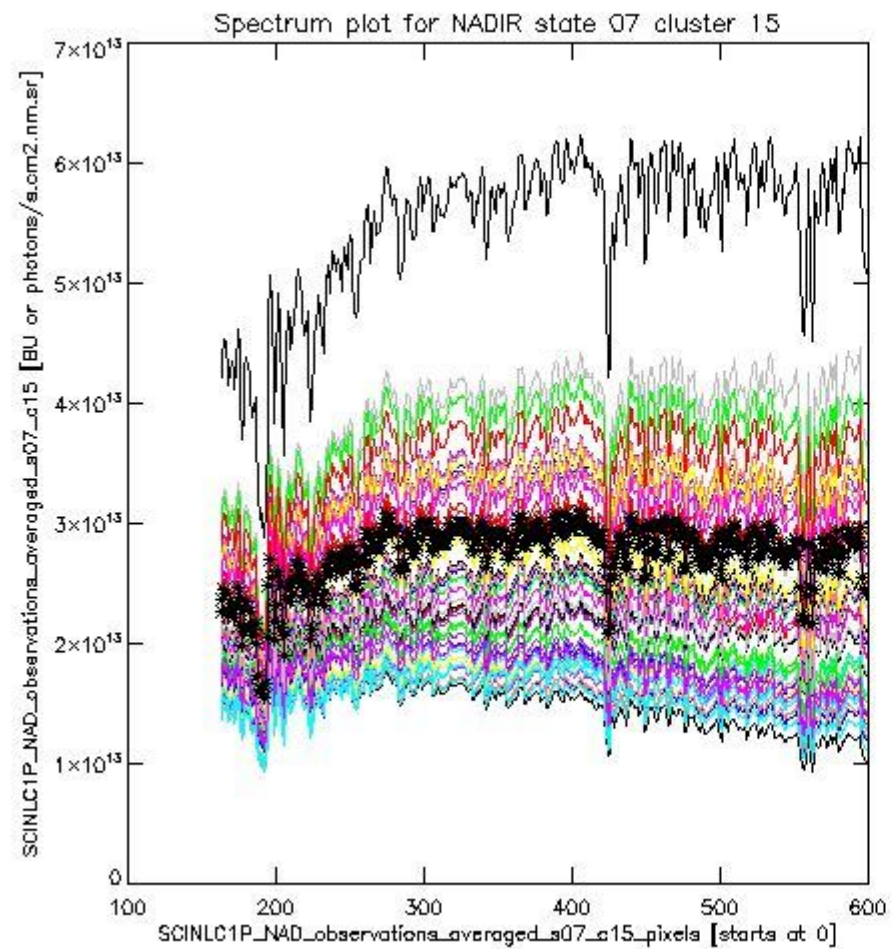
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110324_2.PNG



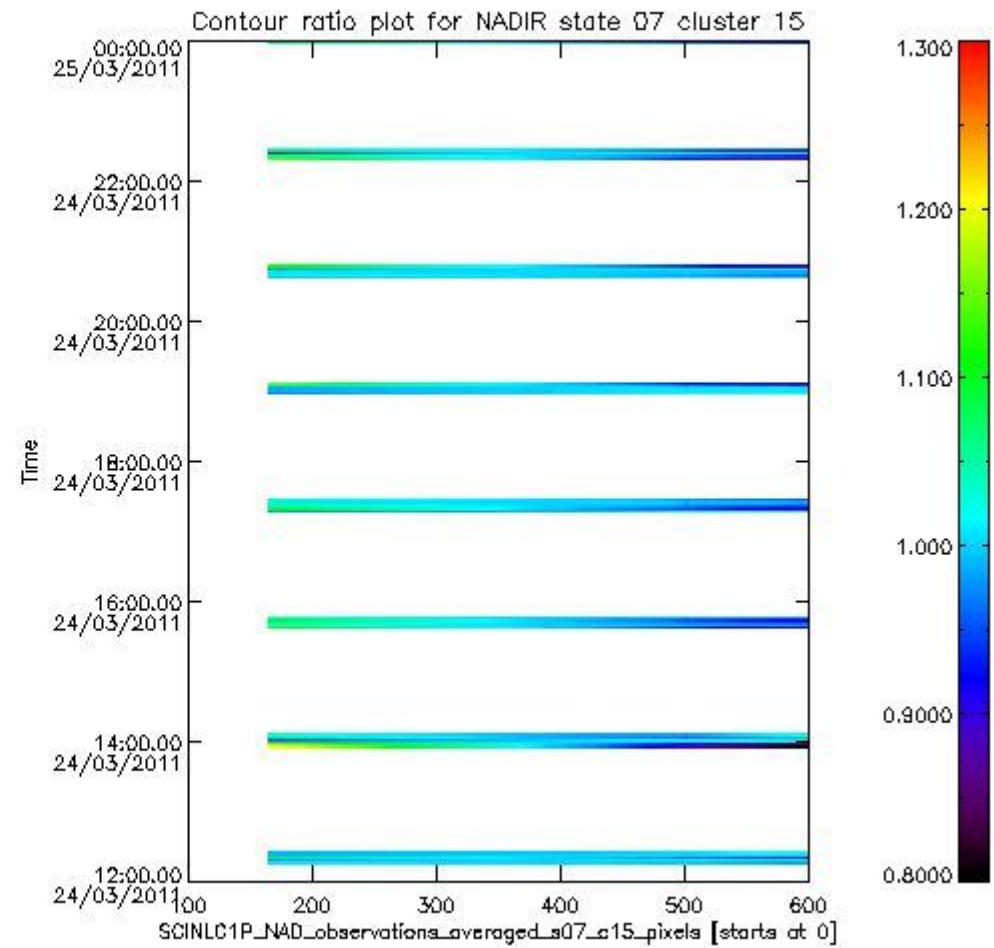
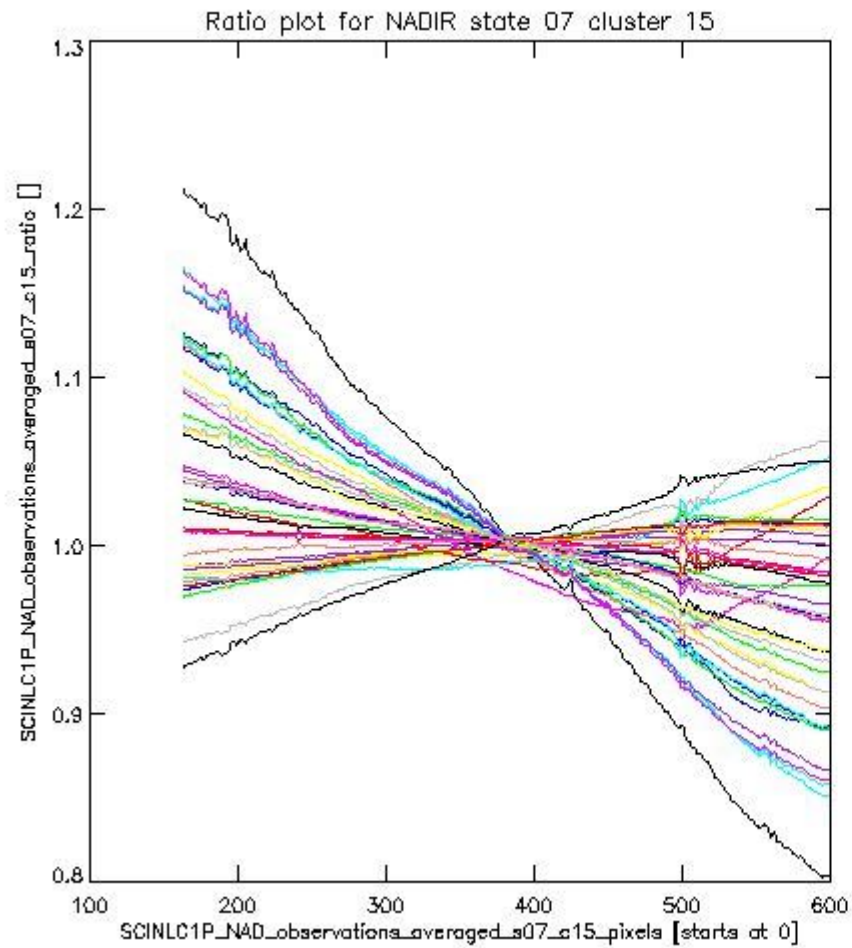
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110324_3.PNG

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	24MAR2011 12:16:29.420
Start time of last sample	24MAR2011 23:58:58.605
Reference period start time	22FEB2011 00:37:40.614
Reference period stop time	22MAR2011 20:19:31.839
Channel number	3
First pixel number (starts at 0)	163
Last pixel number (starts at 0)	598



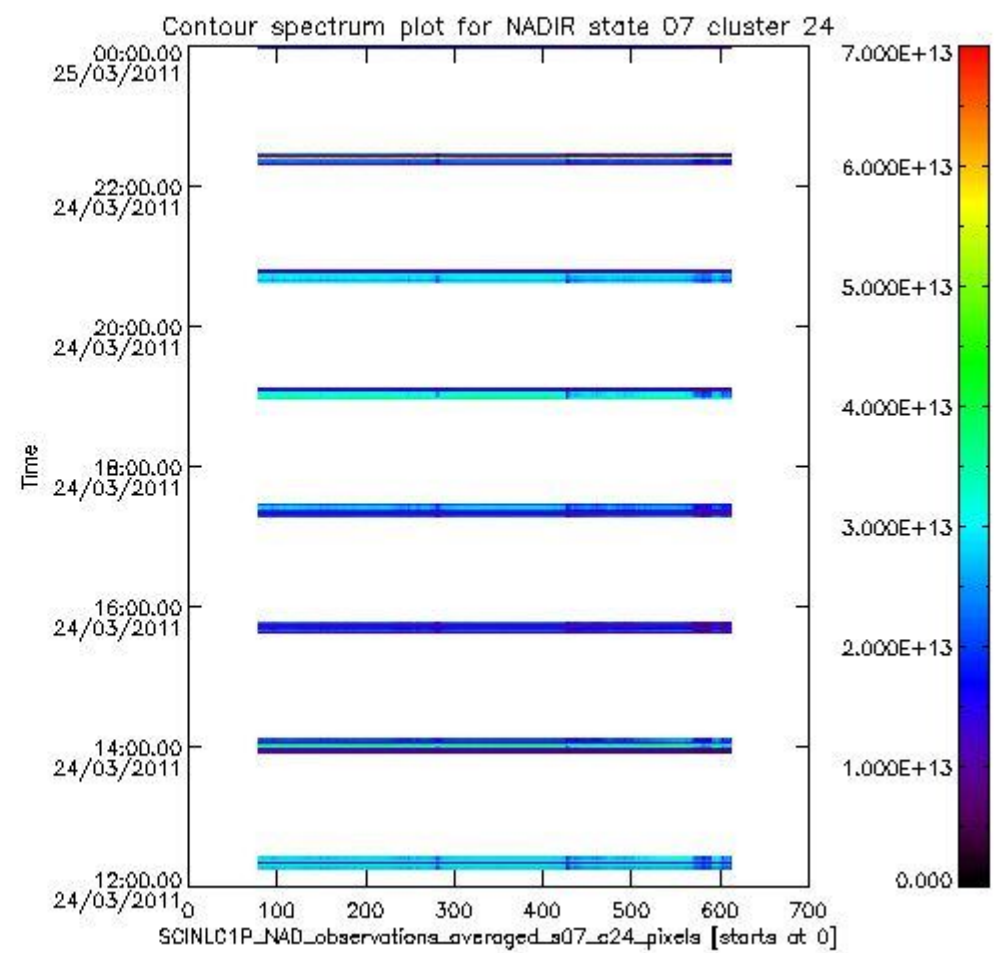
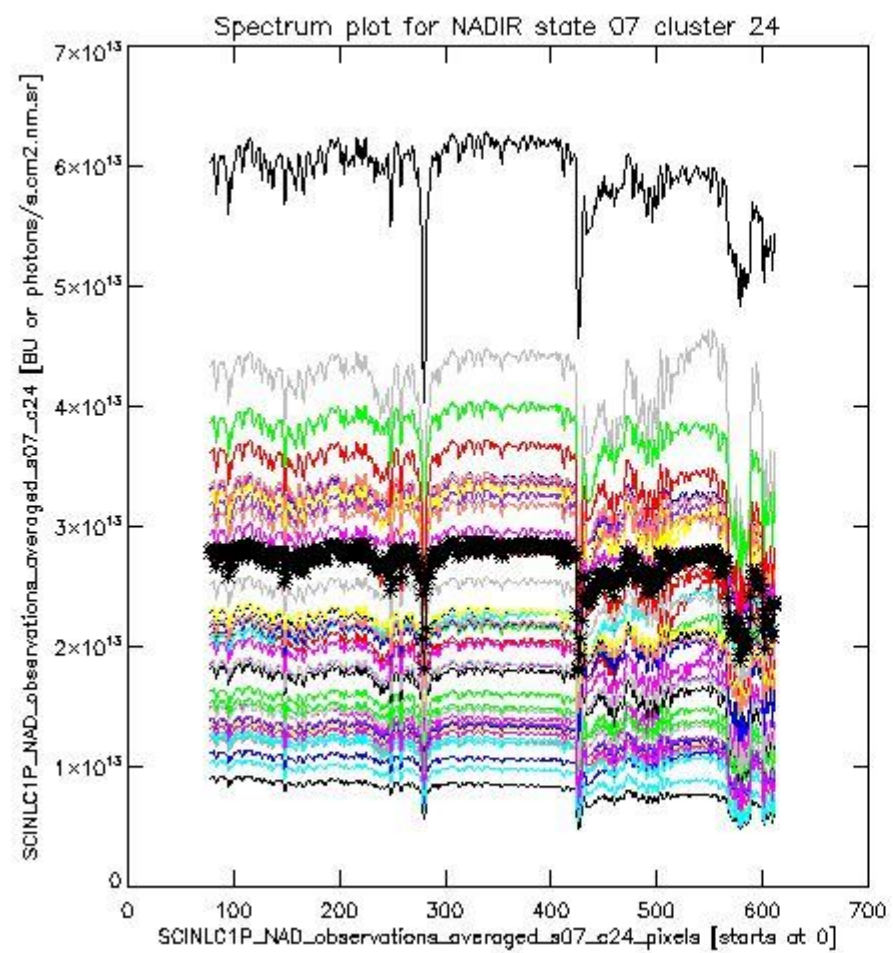
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110324_4.PNG



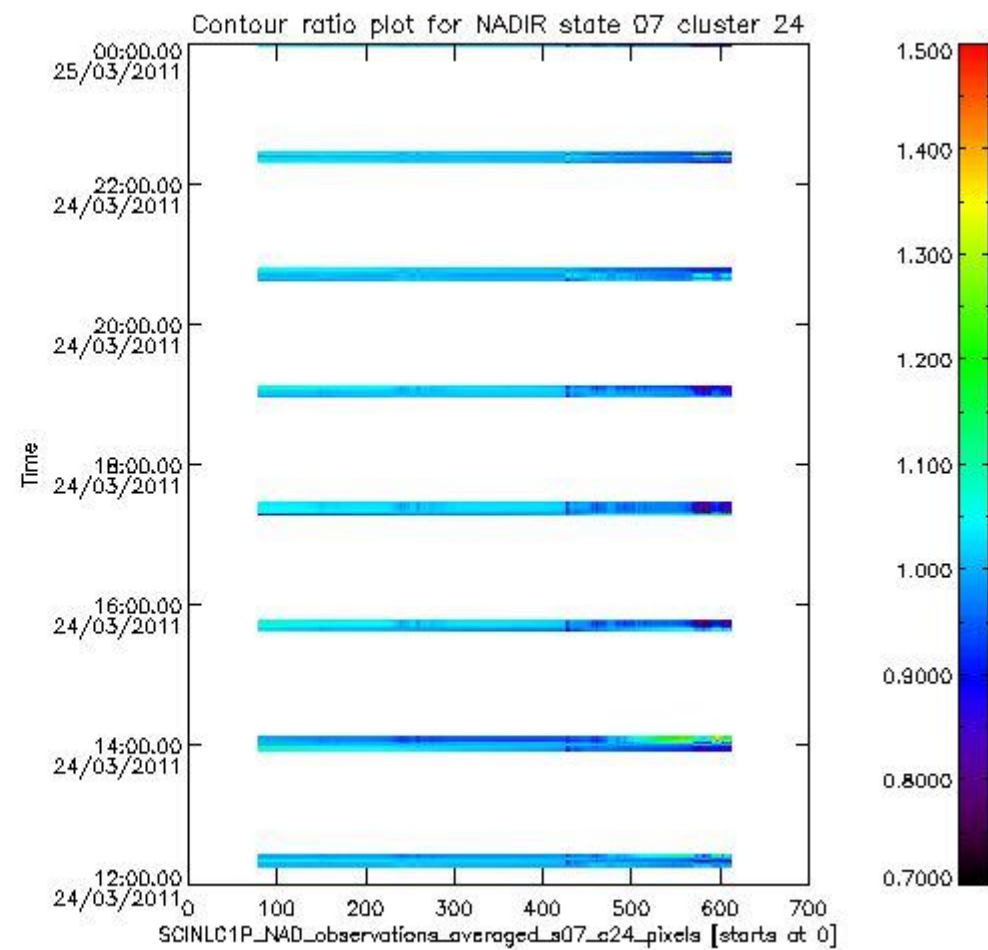
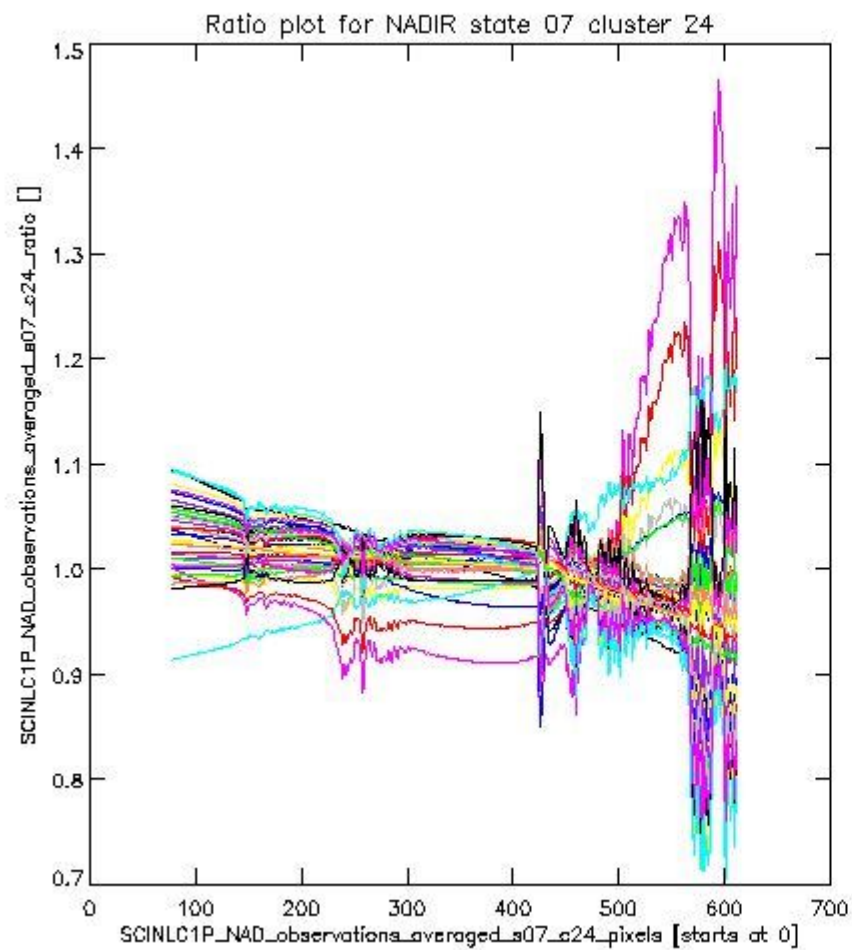
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110324_5.PNG

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	24MAR2011 12:16:29.420
Start time of last sample	24MAR2011 23:58:58.605
Reference period start time	22FEB2011 00:37:40.614
Reference period stop time	22MAR2011 20:19:31.839
Channel number	4
First pixel number (starts at 0)	78
Last pixel number (starts at 0)	612



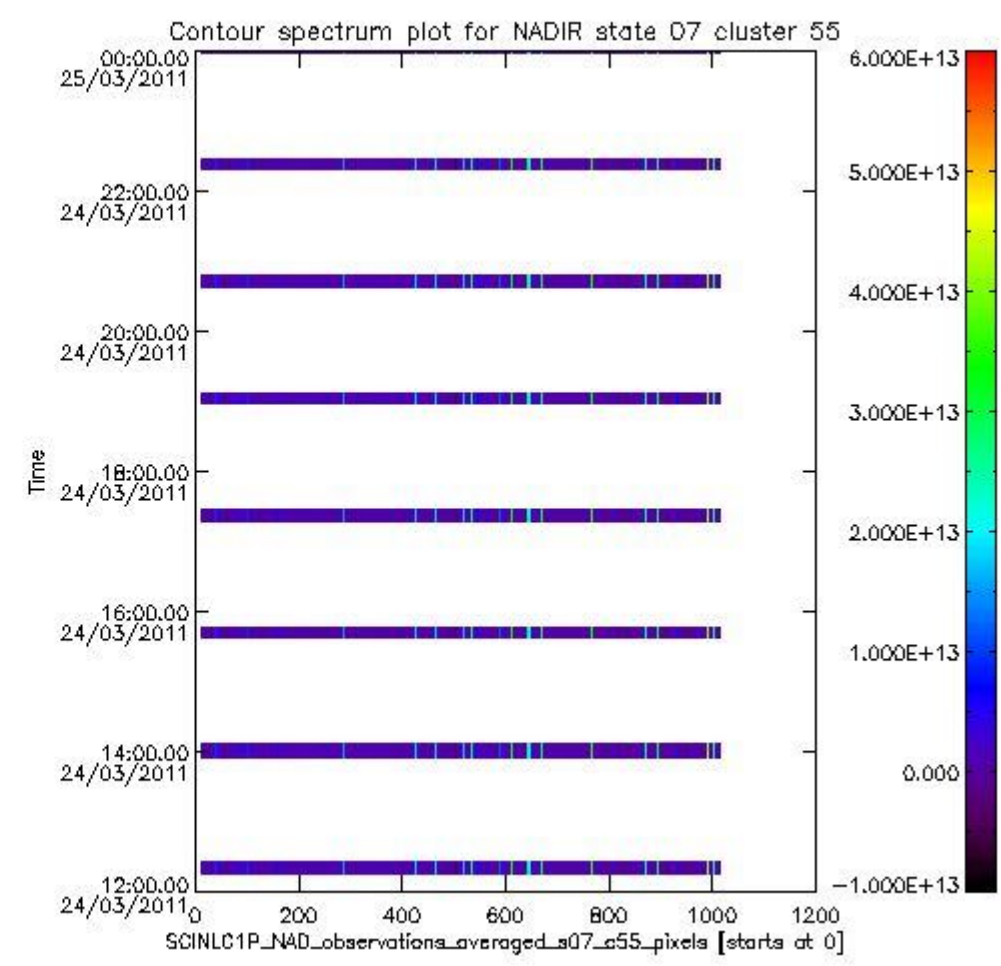
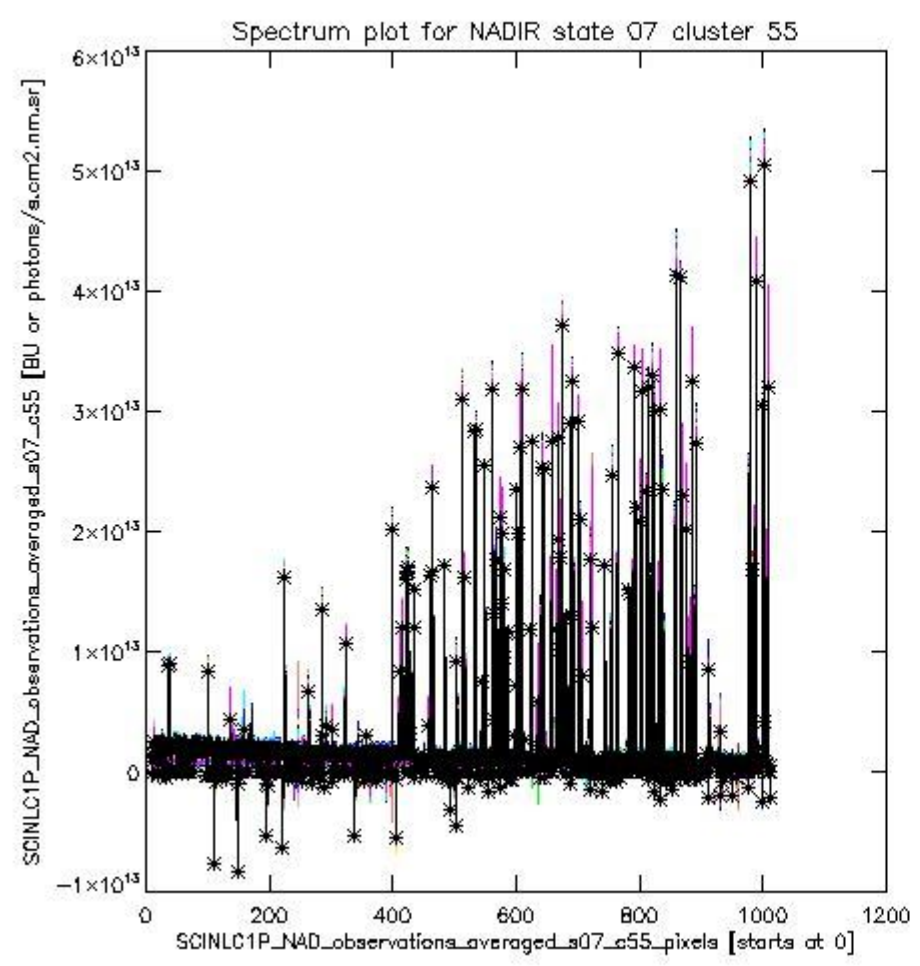
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110324_6.PNG



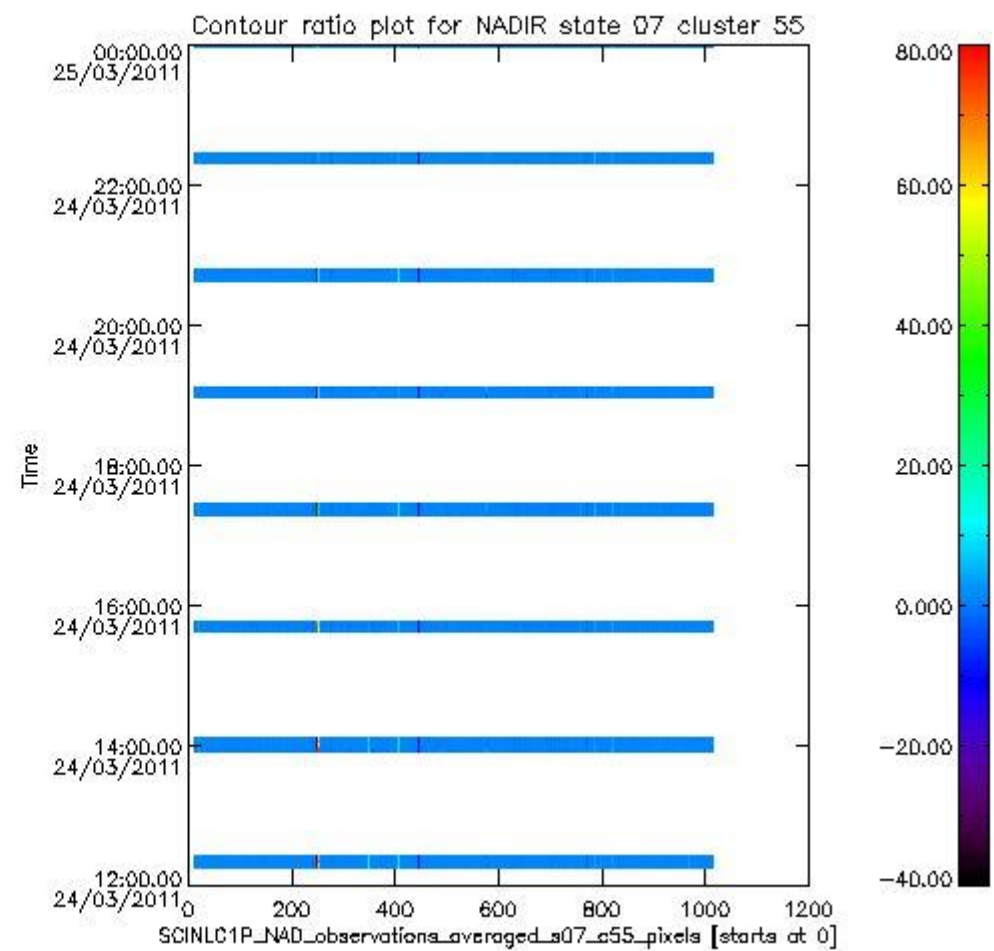
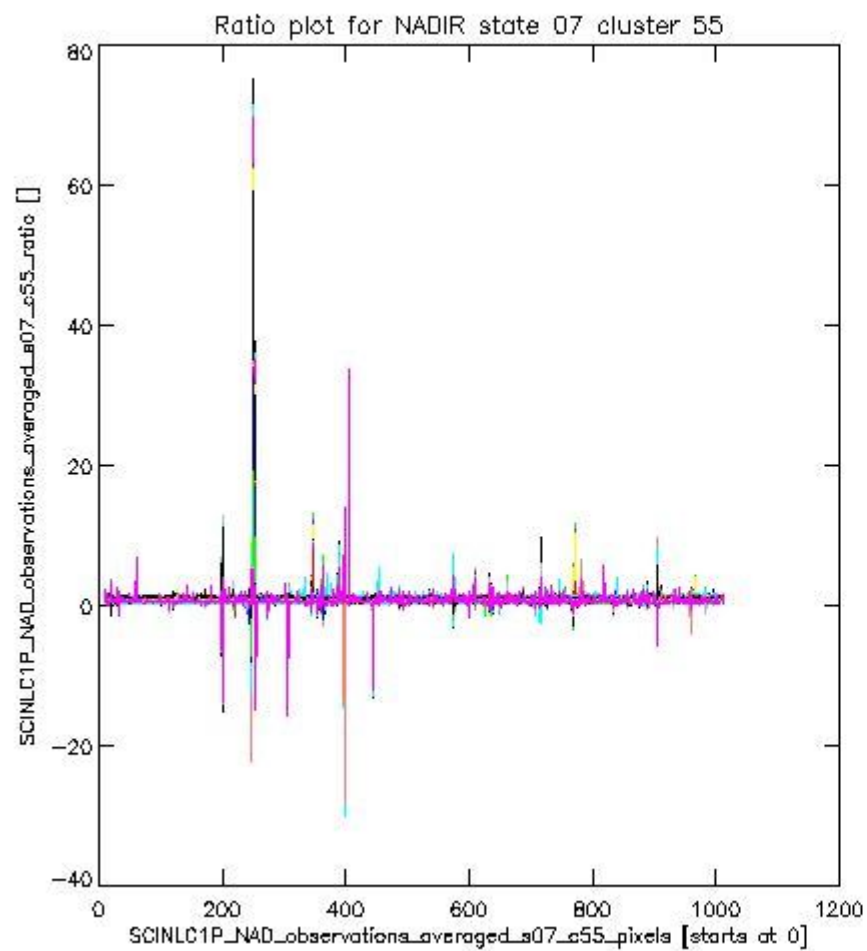
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110324_7.PNG

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	24MAR2011 12:16:29.420
Start time of last sample	24MAR2011 23:58:58.605
Reference period start time	22FEB2011 00:37:40.614
Reference period stop time	22MAR2011 20:19:31.839
Channel number	8
First pixel number (starts at 0)	10
Last pixel number (starts at 0)	1013



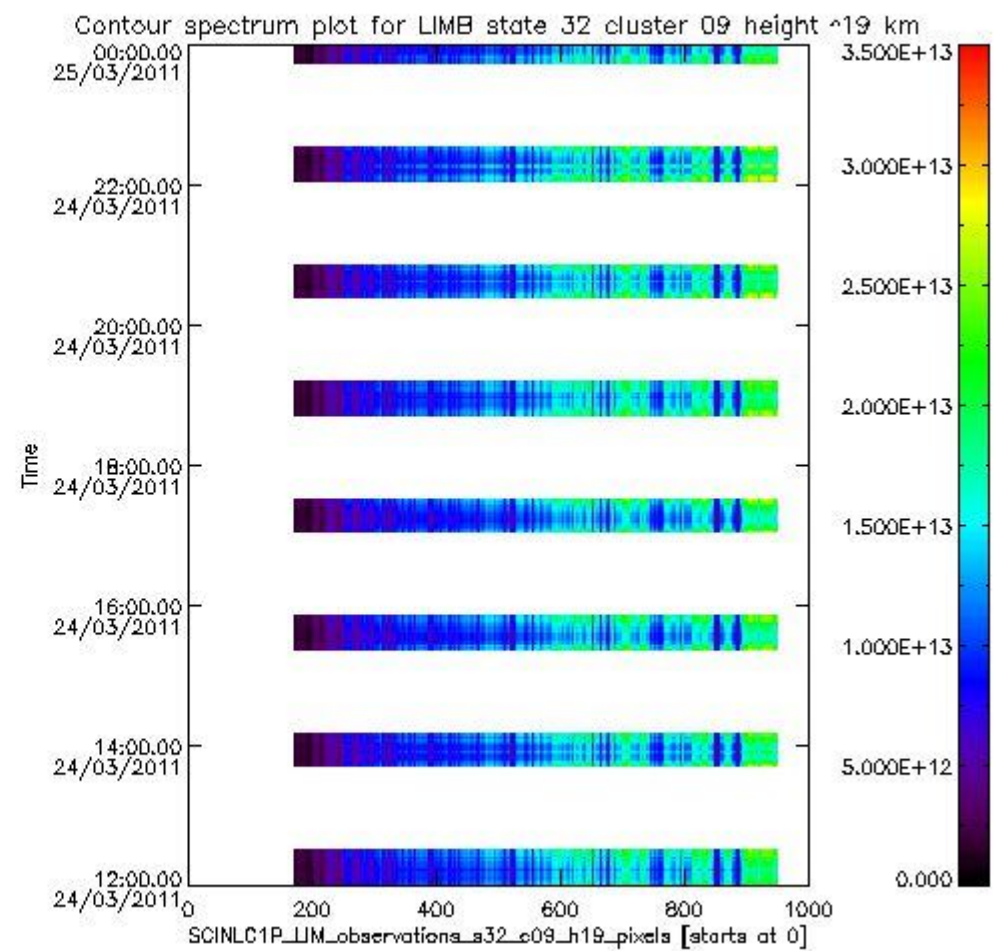
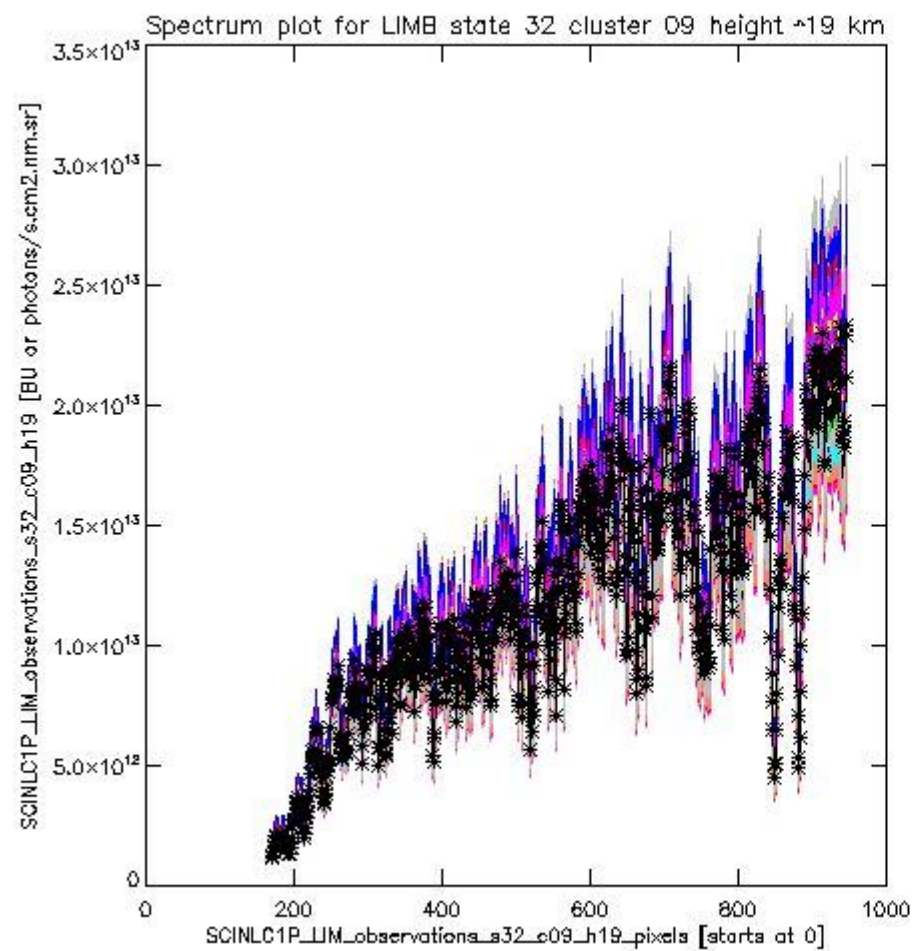
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110324_8.PNG



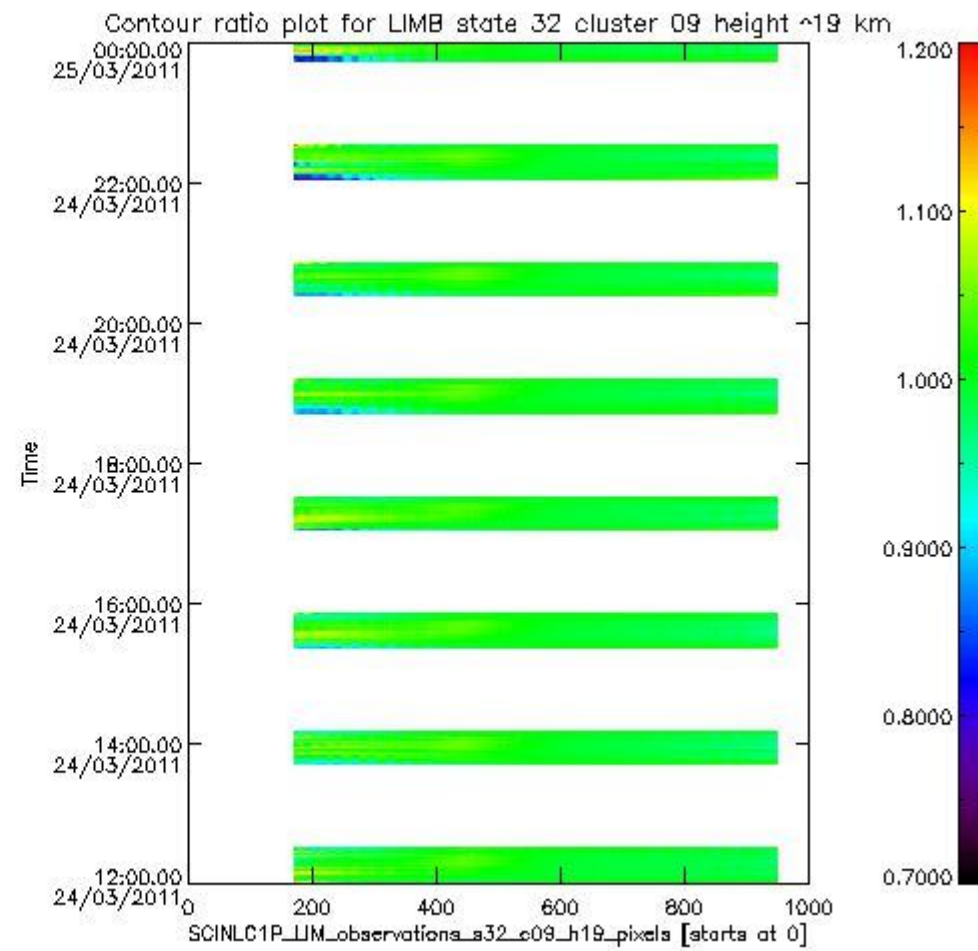
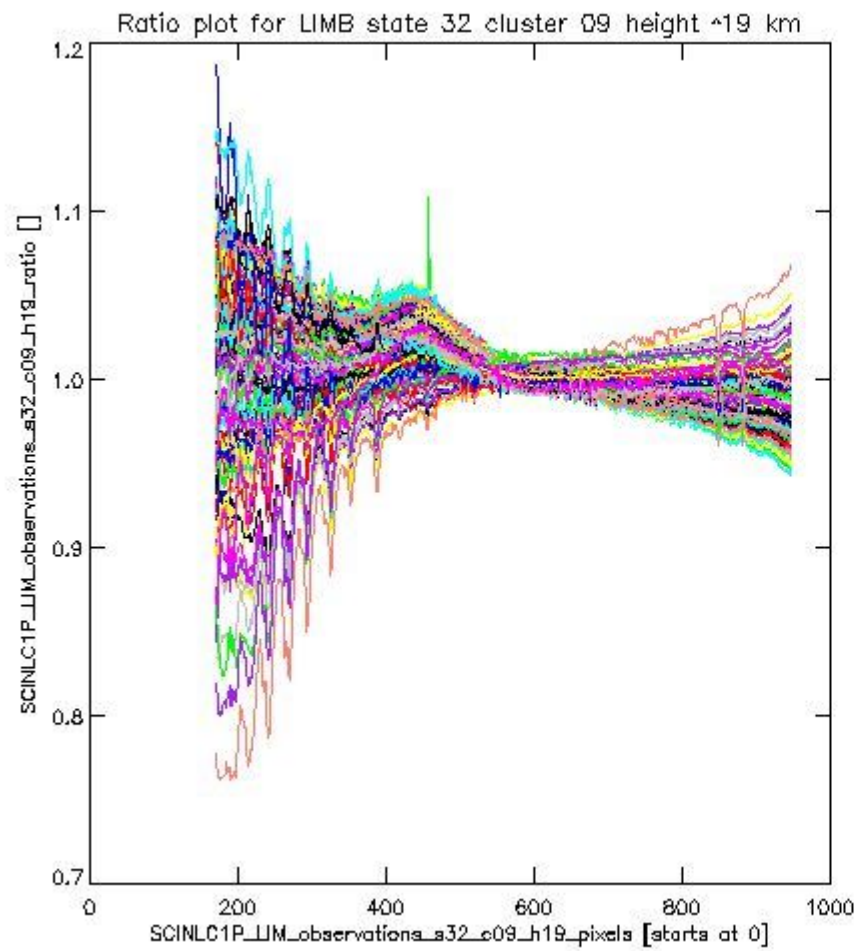
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110324_9.PNG

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	24MAR2011 12:01:16.041
Start time of last sample	24MAR2011 23:58:04.421
Reference period start time	22FEB2011 00:22:27.235
Reference period stop time	22MAR2011 20:24:45.882
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	947



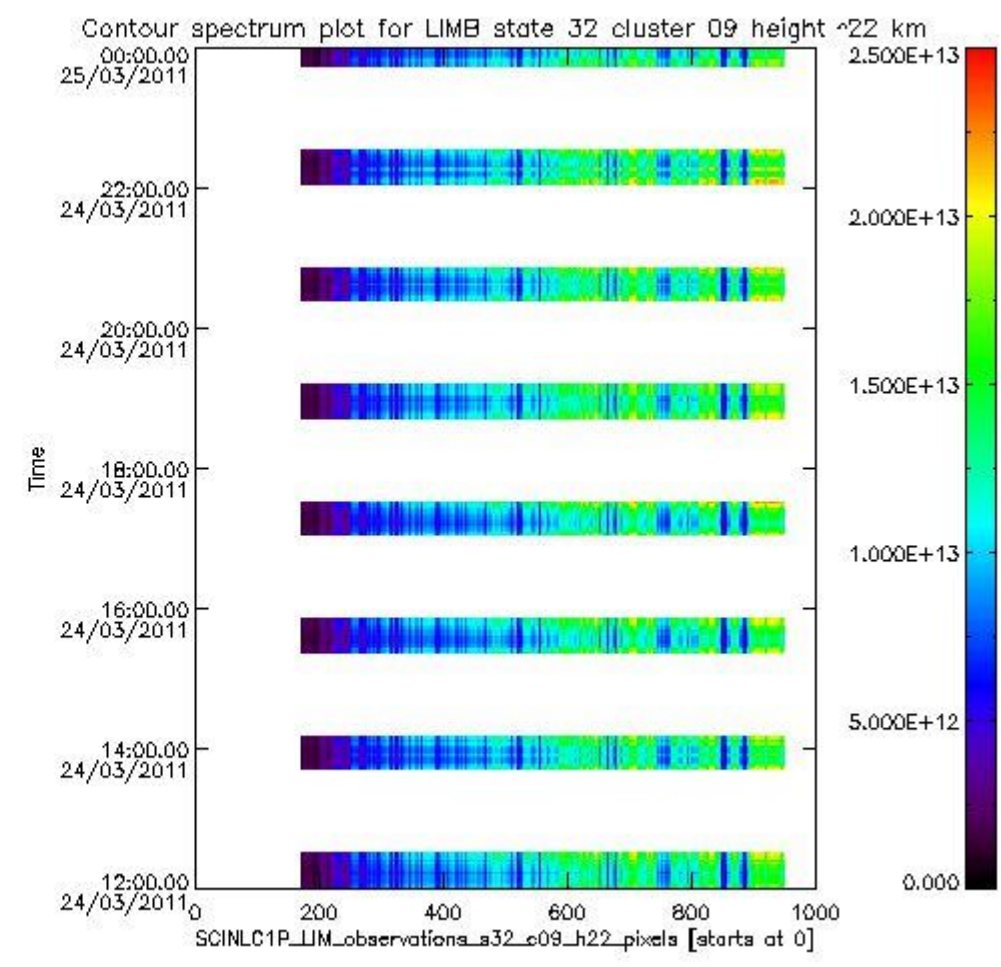
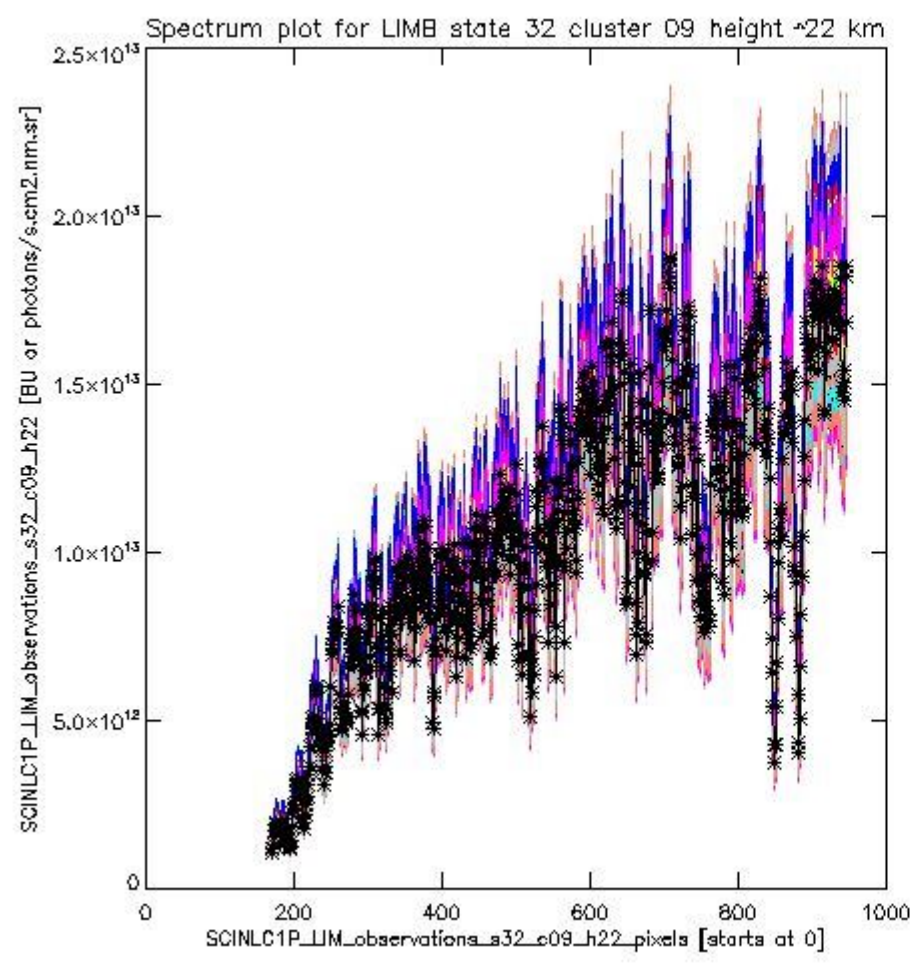
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110324_10.PNG



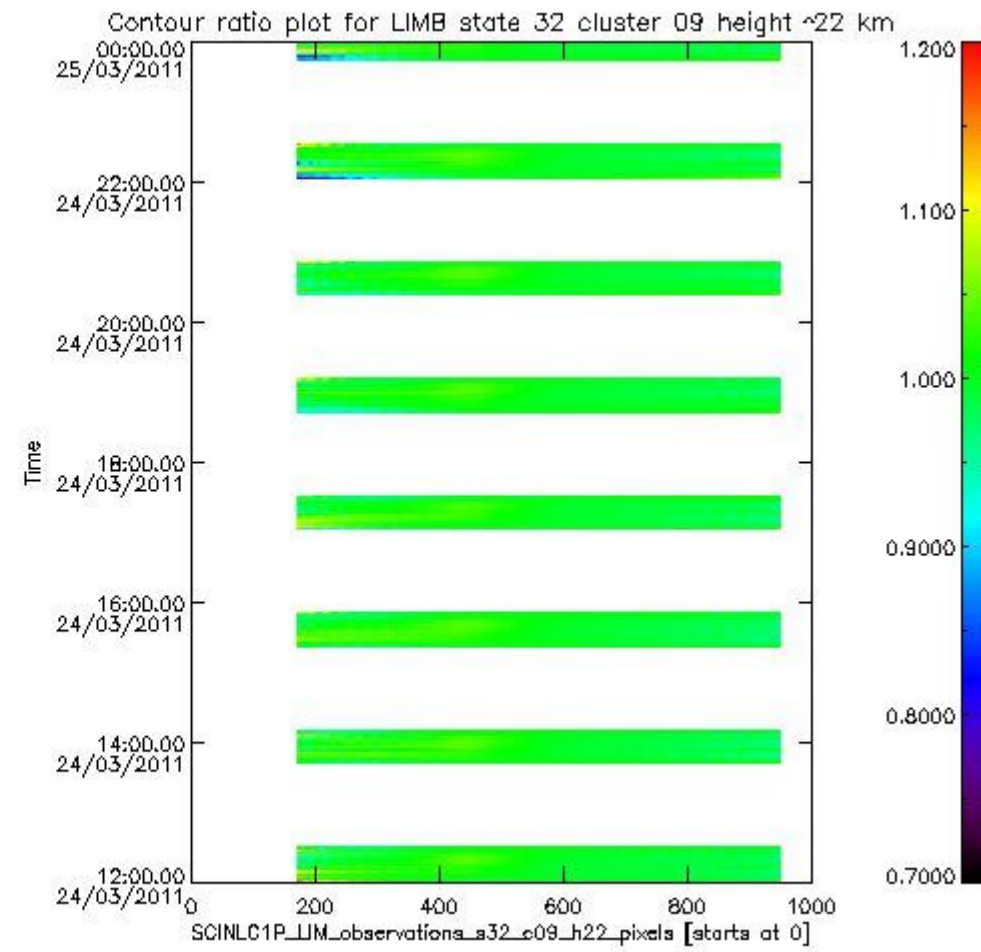
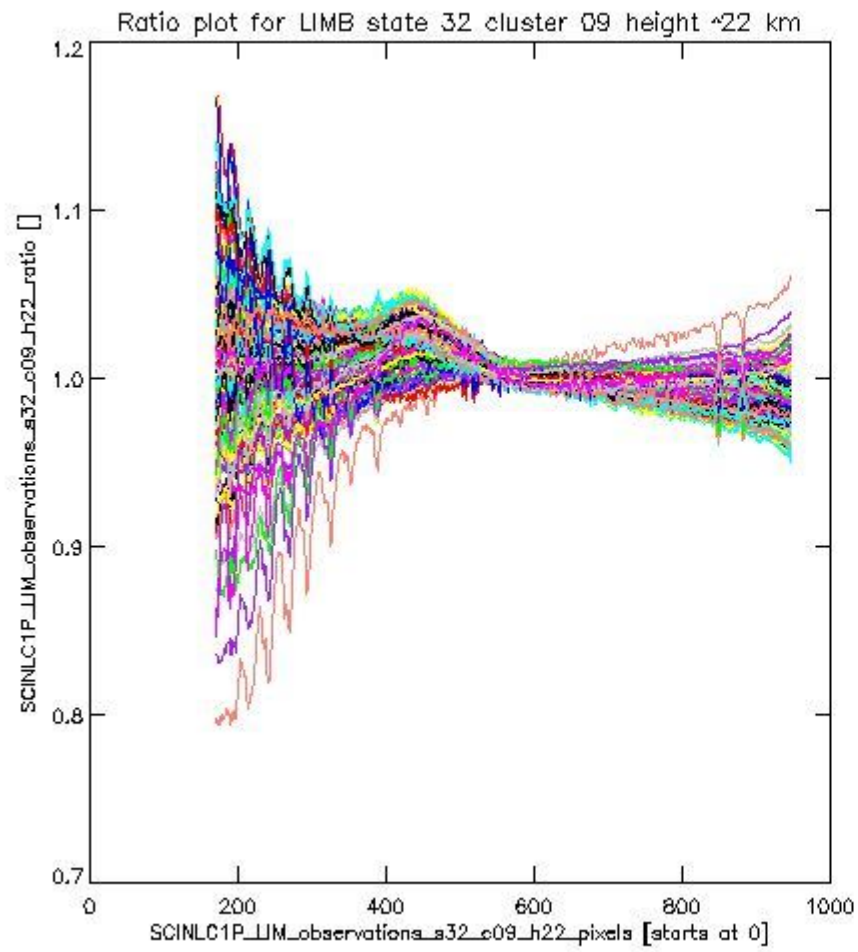
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110324_11.PNG

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	24MAR2011 12:01:16.041
Start time of last sample	24MAR2011 23:58:04.421
Reference period start time	22FEB2011 00:22:27.235
Reference period stop time	22MAR2011 20:24:45.882
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	947



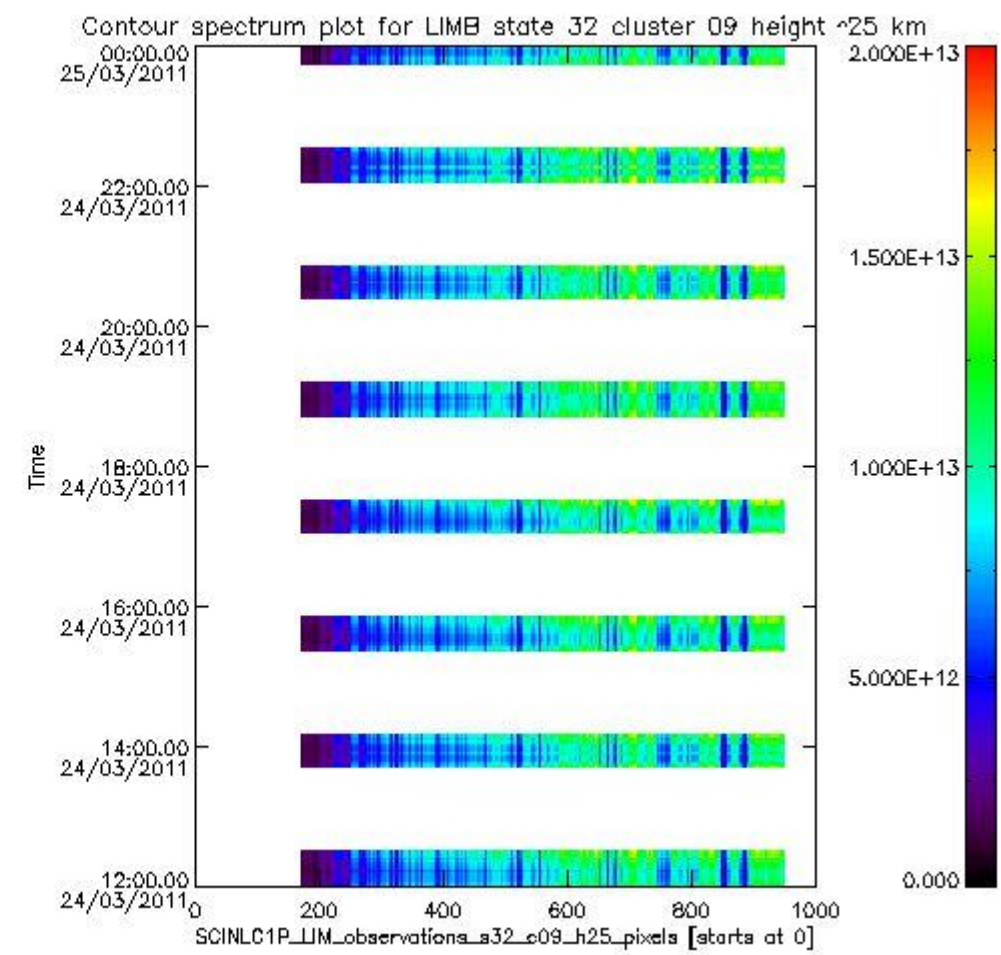
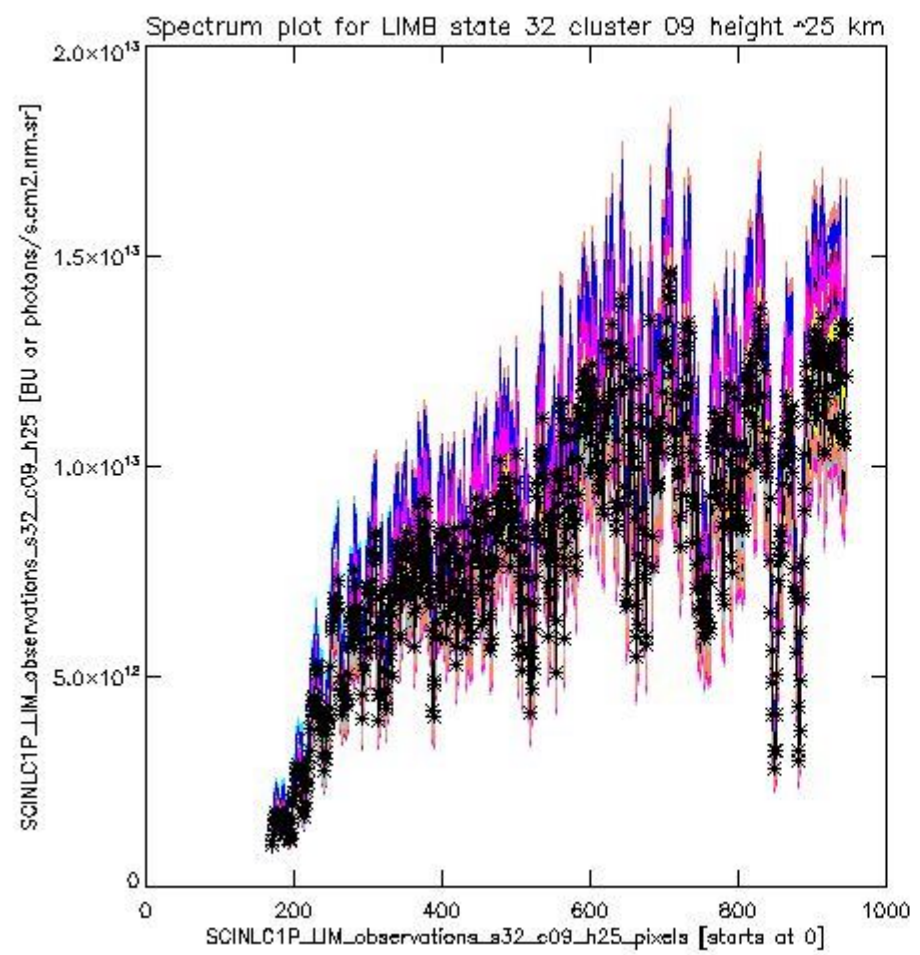
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110324_12.PNG



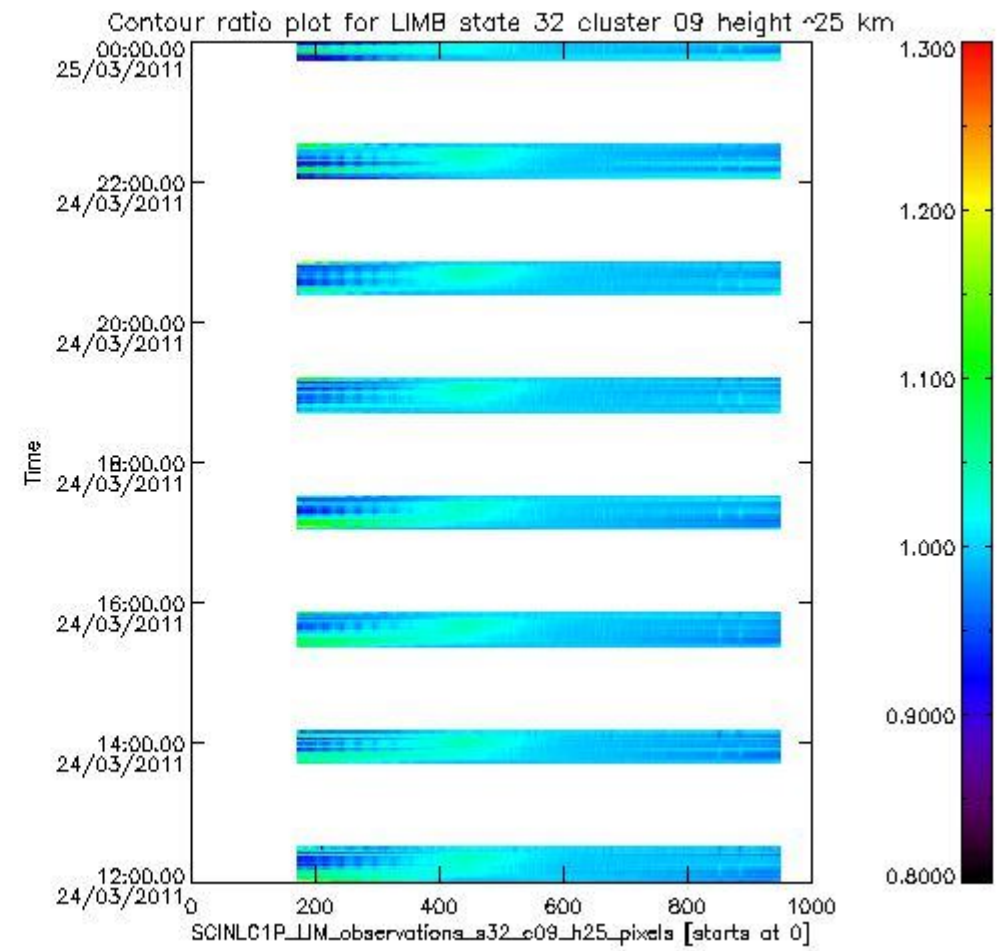
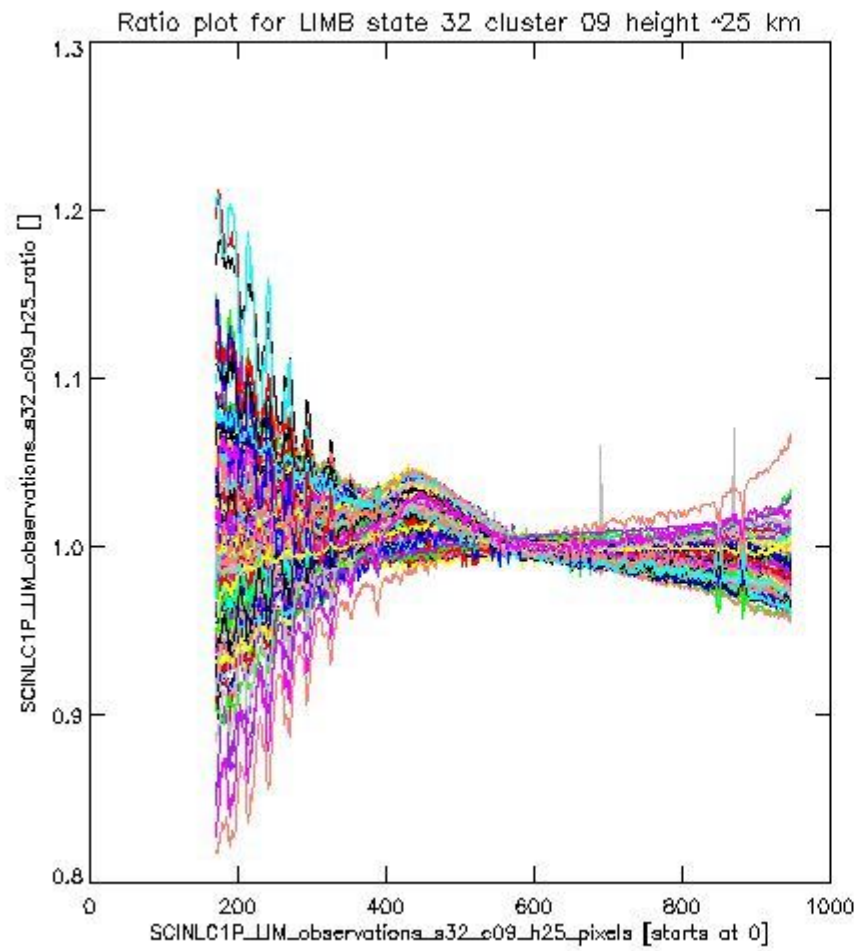
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110324_13.PNG

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	24MAR2011 12:01:16.041
Start time of last sample	24MAR2011 23:58:04.421
Reference period start time	22FEB2011 00:22:27.235
Reference period stop time	22MAR2011 20:24:45.882
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	947



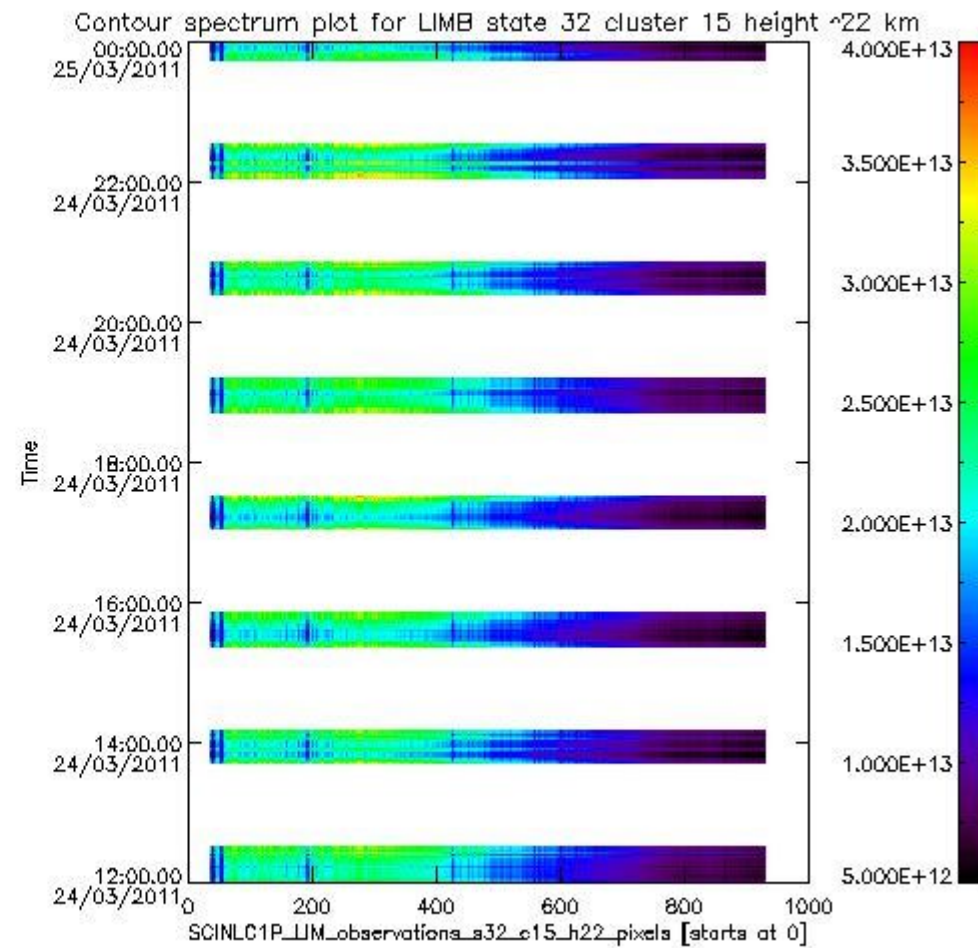
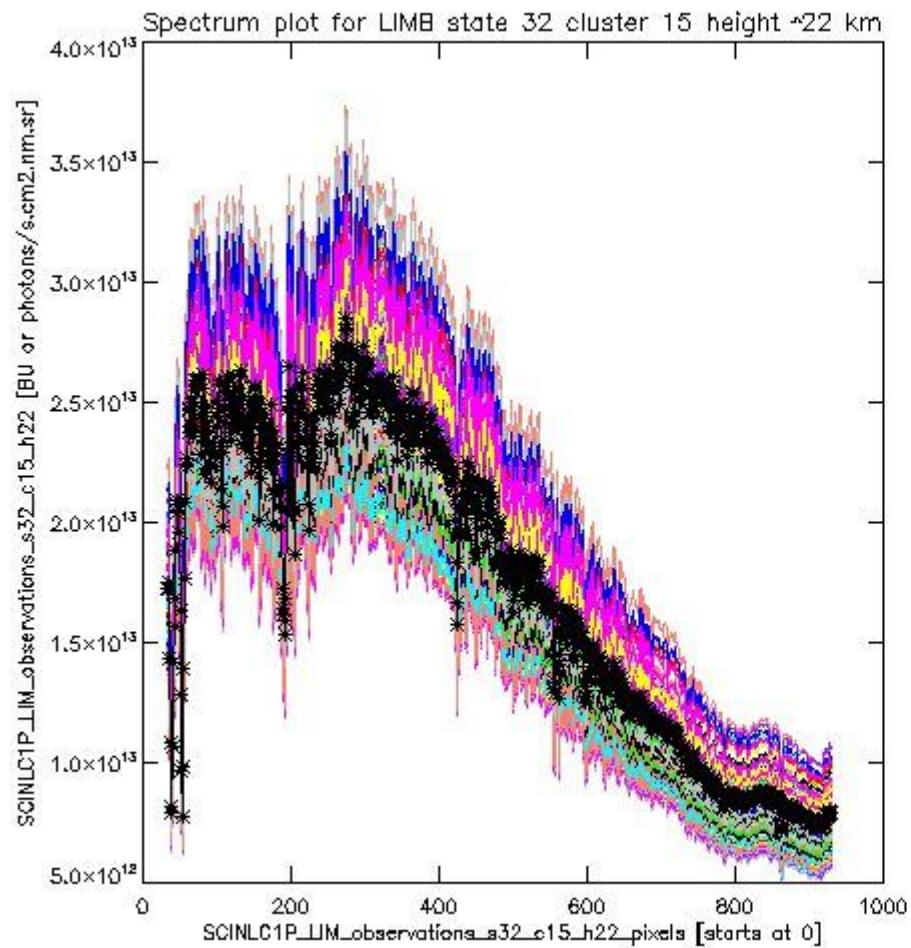
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110324_14.PNG



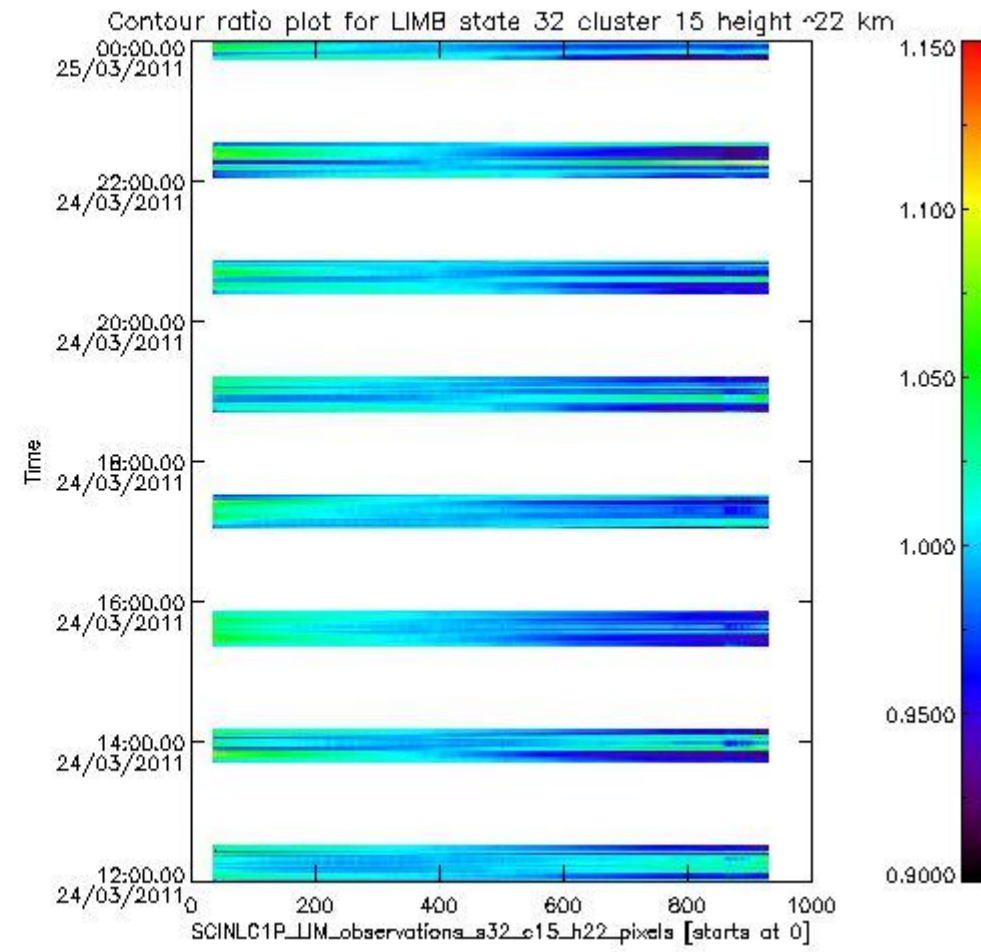
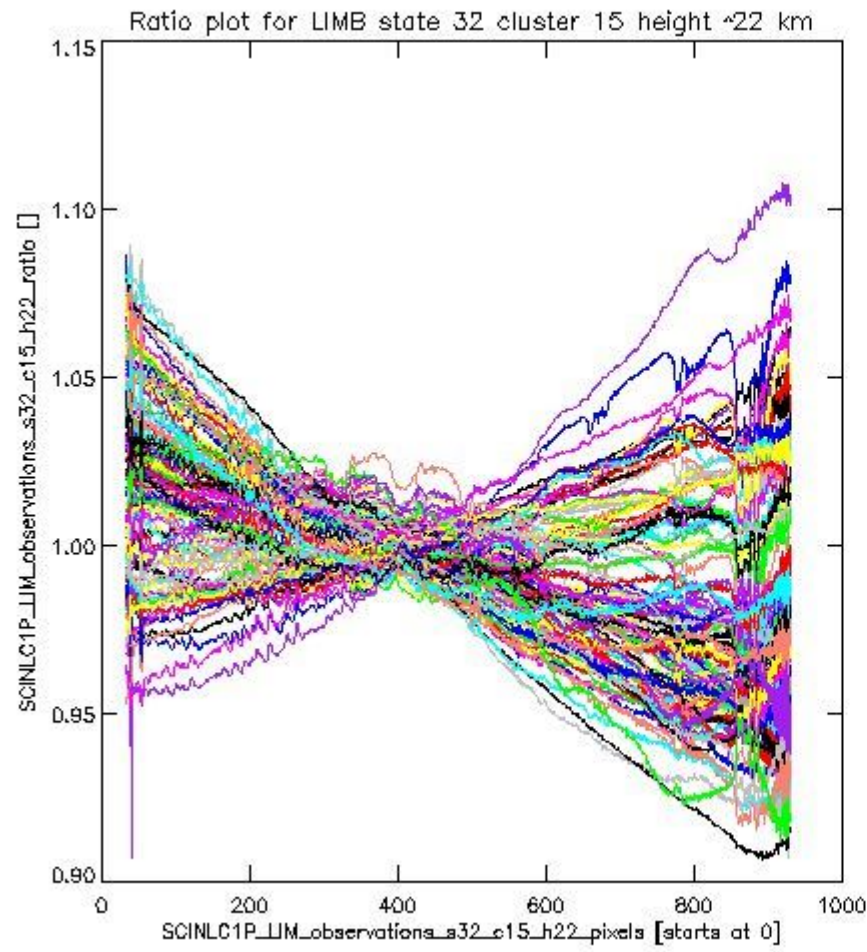
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110324_15.PNG

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	24MAR2011 12:01:16.041
Start time of last sample	24MAR2011 23:58:04.421
Reference period start time	22FEB2011 00:22:27.235
Reference period stop time	22MAR2011 20:24:45.882
Channel number	3
First pixel number (starts at 0)	33
Last pixel number (starts at 0)	929



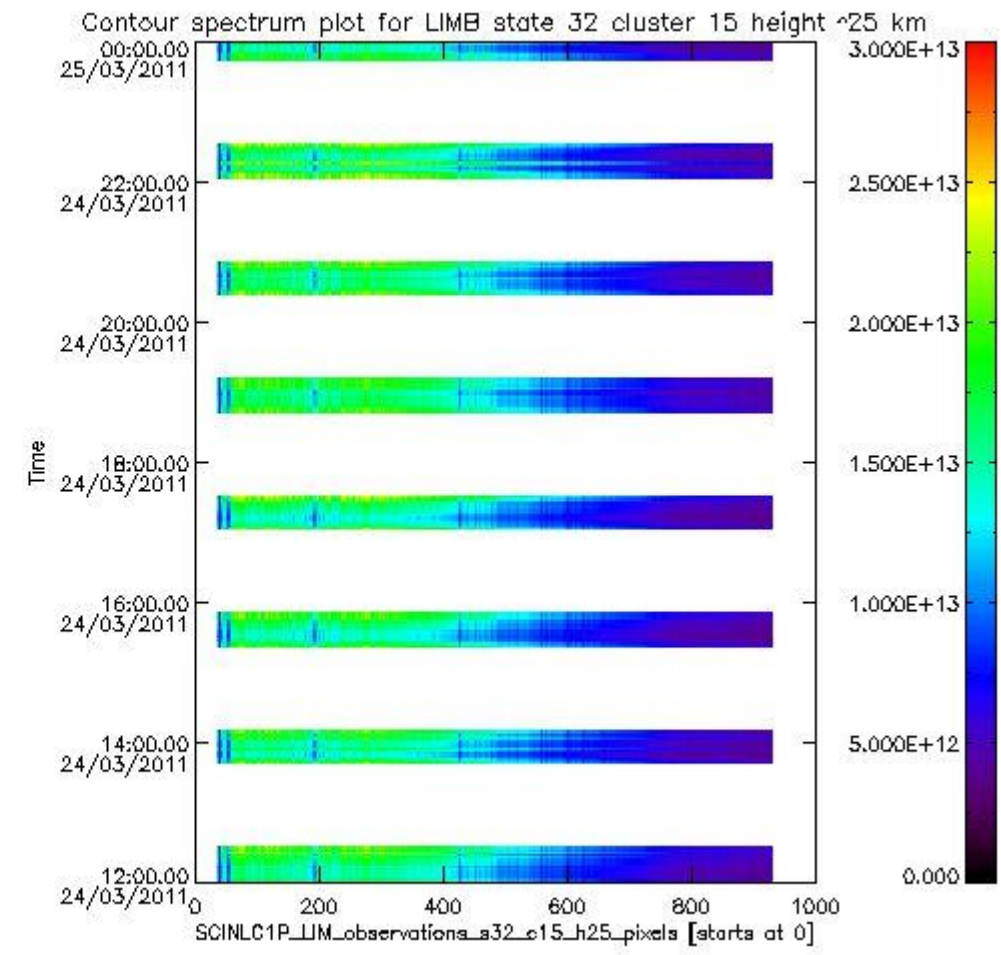
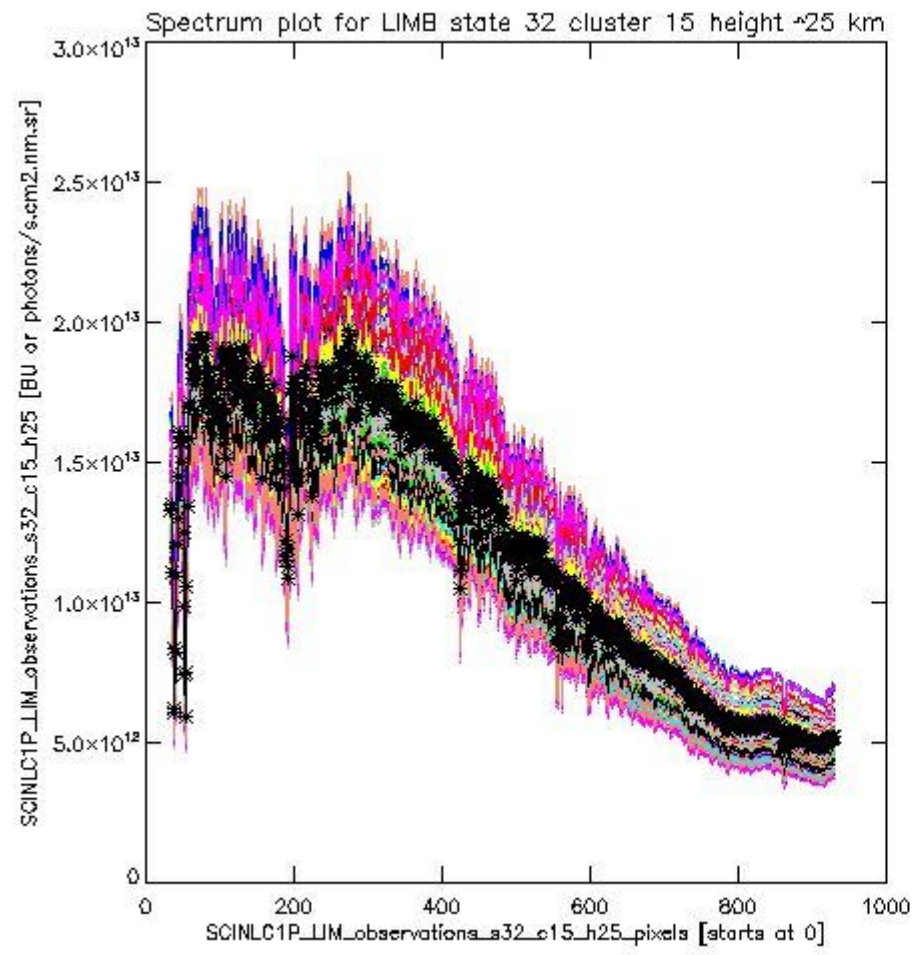
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110324_16.PNG



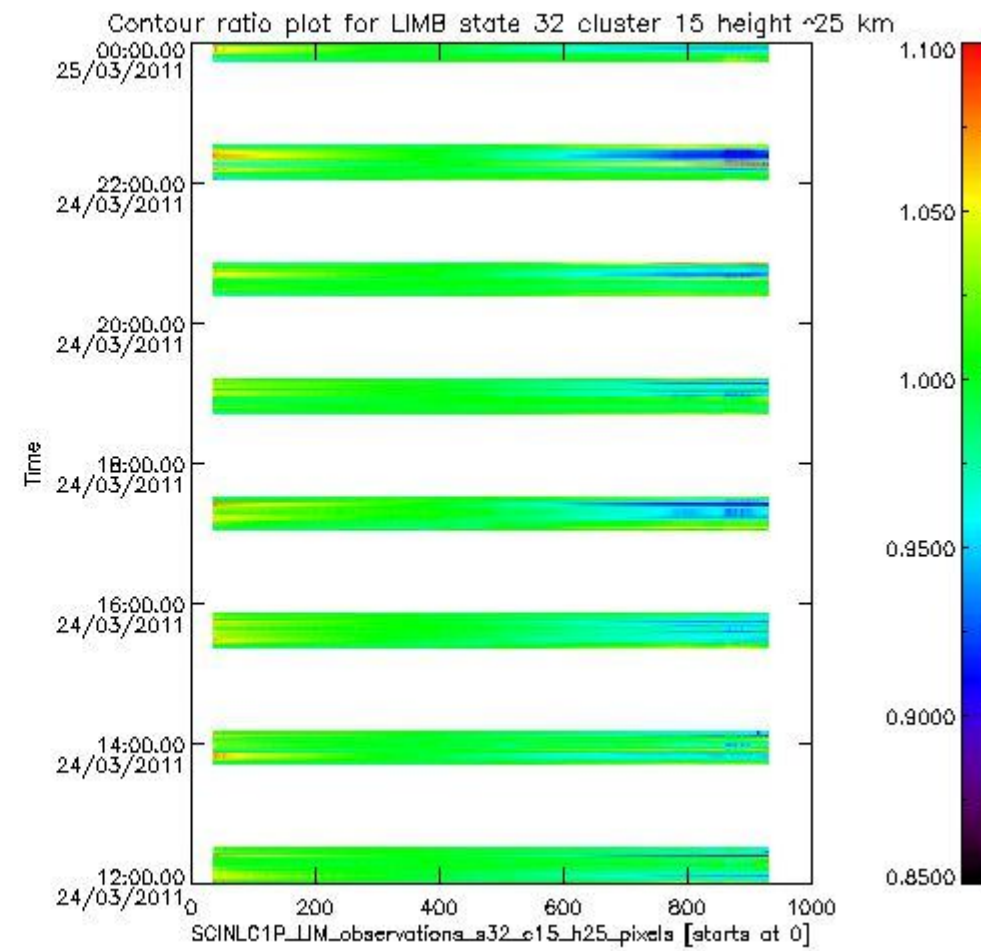
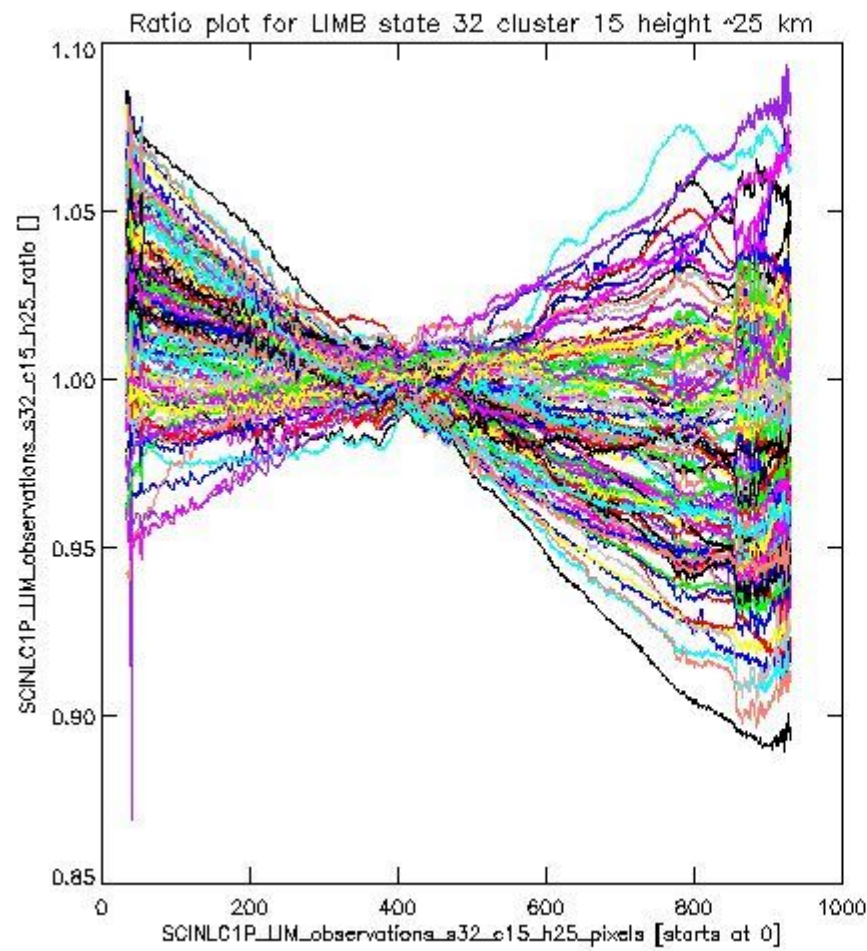
sciamachy_11b_source_packet_report_SCIA_7_04_U_20110324_17.PNG

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	24MAR2011 12:01:16.041
Start time of last sample	24MAR2011 23:58:04.421
Reference period start time	22FEB2011 00:22:27.235
Reference period stop time	22MAR2011 20:24:45.882
Channel number	3
First pixel number (starts at 0)	33
Last pixel number (starts at 0)	929



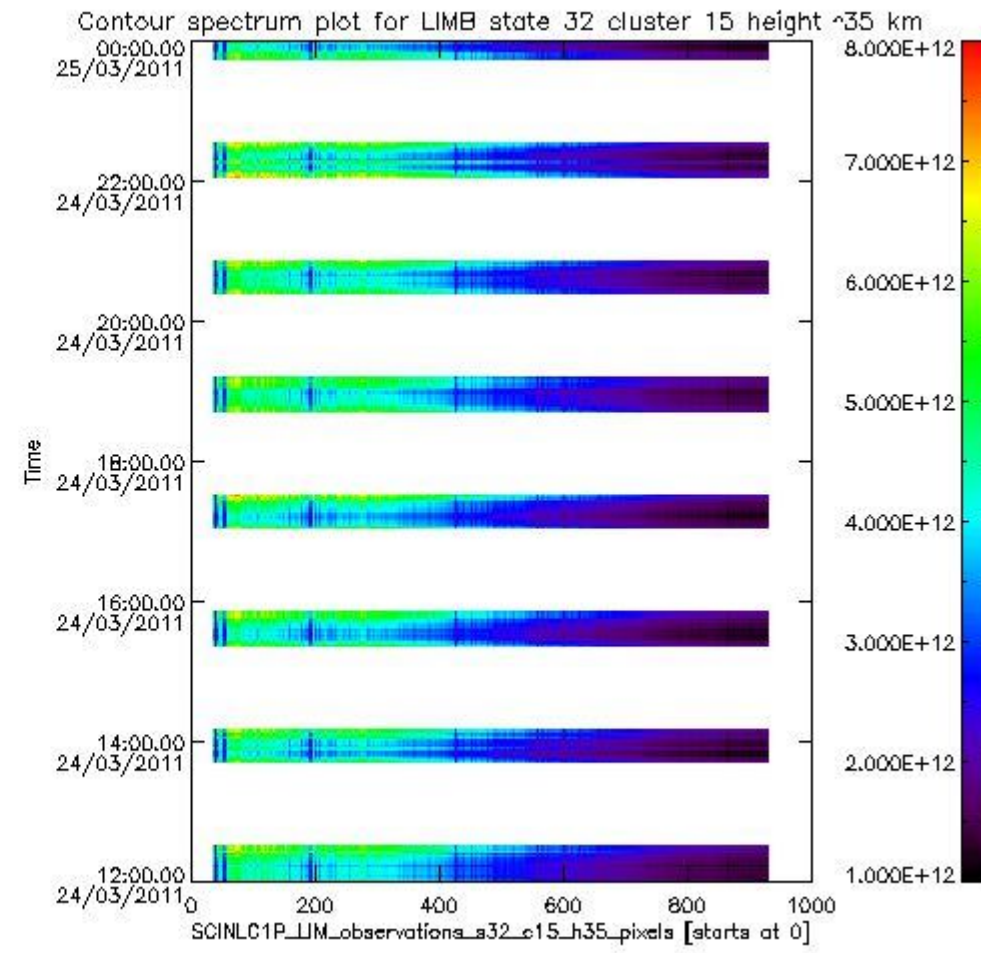
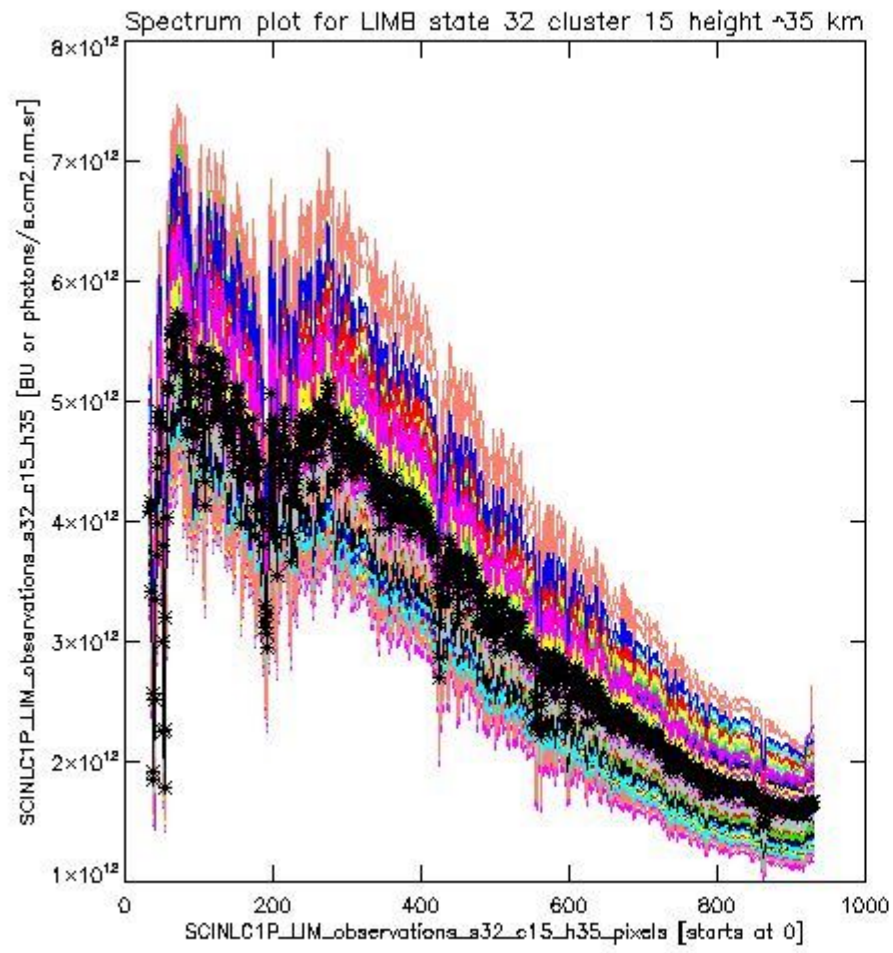
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110324_18.PNG

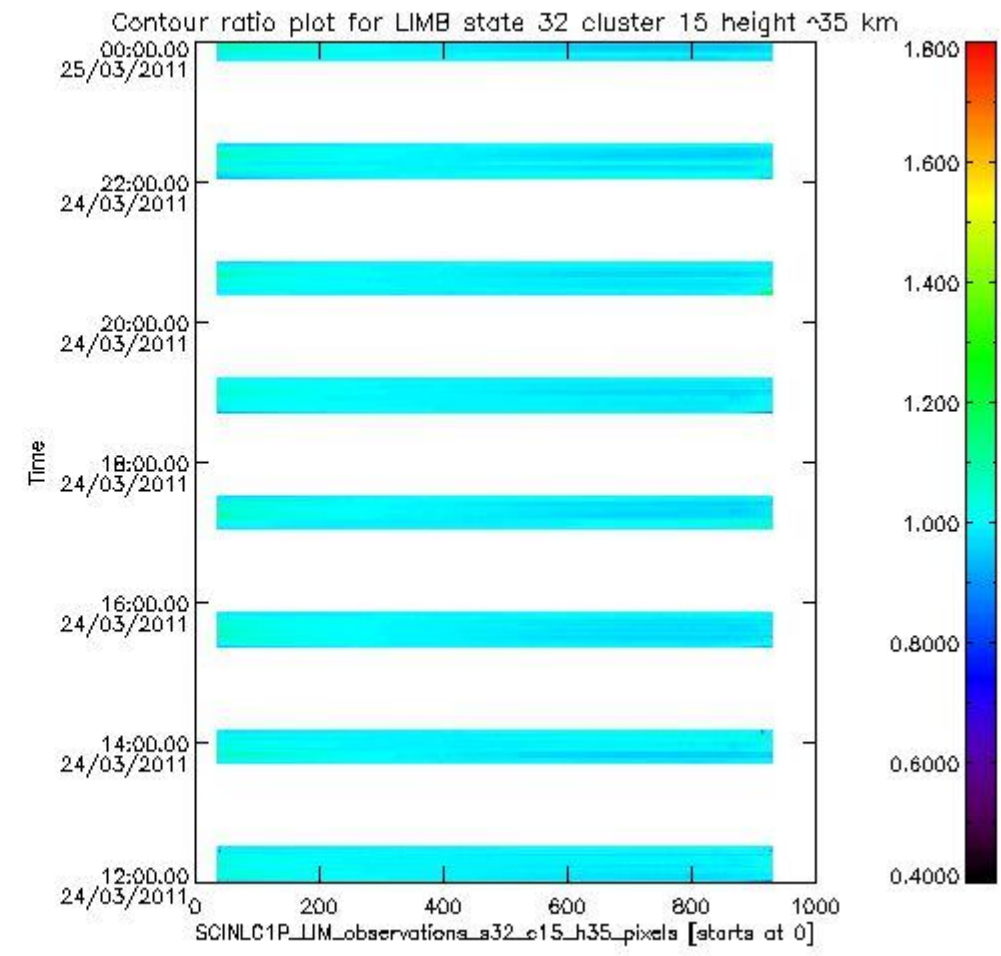
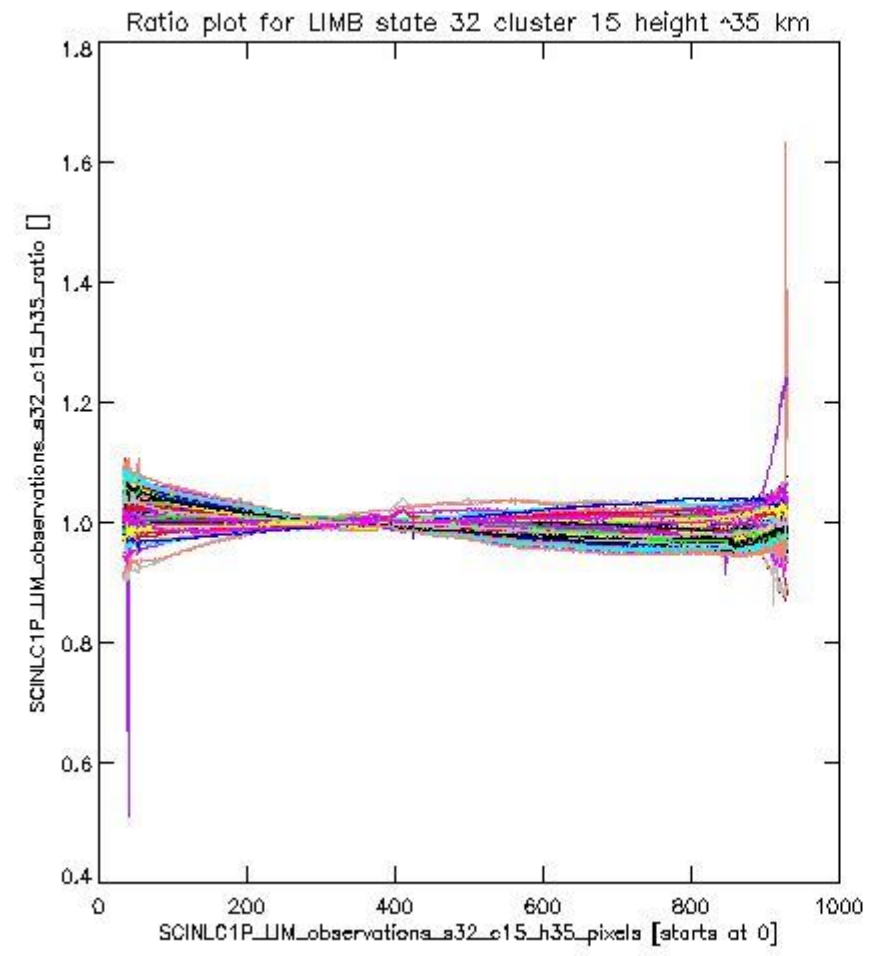


sciamachy_11b_source_packet_report_SCIA_7_04_U_20110324_19.PNG

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	24MAR2011 12:01:16.041
Start time of last sample	24MAR2011 23:58:04.421
Reference period start time	22FEB2011 00:22:27.235
Reference period stop time	22MAR2011 20:24:45.882
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_20110324_21.PNG

