

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	27FEB2011 06:55:36
Data source version	SCIA/7.04-U
Processing scope for products	16FEB2011 00:00:00 to 17FEB2011 00:00:00
Start time of first product within scope	15FEB2011 22:44:51
Stop time of last product within scope	17FEB2011 01:14:35
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	16FEB2011 00:57:07.892	16FEB2011 17:48:03.064
1	NADIR	07	09	N/A	16FEB2011 00:57:07.892	16FEB2011 17:48:03.064
2	NADIR	07	15	N/A	16FEB2011 00:57:07.892	16FEB2011 17:48:03.064
3	NADIR	07	24	N/A	16FEB2011 00:57:07.892	16FEB2011 17:48:03.064
4	NADIR	07	55	N/A	16FEB2011 00:57:07.892	16FEB2011 17:48:03.064
5	LIMB	32	09	~19 km	16FEB2011 00:43:57.255	16FEB2011 17:53:38.685
6	LIMB	32	09	~22 km	16FEB2011 00:43:57.255	16FEB2011 17:53:38.685
7	LIMB	32	09	~25 km	16FEB2011 00:43:57.255	16FEB2011 17:53:38.685
8	LIMB	32	15	~22 km	16FEB2011 00:43:57.255	16FEB2011 17:53:38.685
9	LIMB	32	15	~25 km	16FEB2011 00:43:57.255	16FEB2011 17:53:38.685
10	LIMB	32	15	~35 km	16FEB2011 00:43:57.255	16FEB2011 17:53:38.685

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	#cml_drk	#incmpl_drk	Decont
0	SCI_NLC_1CUDPA20110215_223032_000060413099_00303_46869_4653.N1	15FEB2011 22:44:51	15FEB2011 23:57:19	0	33	31	0	0	1	0	0	
1	SCI_NLC_1CUDPA20110216_001117_000059783099_00304_46870_4656.N1	16FEB2011 00:25:05	16FEB2011 01:37:27	0	33	31	0	0	1	0	0	
2	SCI_NLC_1CUDPA20110216_015058_000060413099_00305_46871_4657.N1	16FEB2011 02:05:18	16FEB2011 03:17:34	0	33	31	0	0	1	0	0	
3	SCI_NLC_1CUDPA20110216_033144_000059783099_00306_46872_4660.N1	16FEB2011 03:45:32	16FEB2011 04:57:41	0	33	31	0	0	1	0	0	
4	SCI_NLC_1CUDPA20110216_051126_000060413099_00307_46873_4661.N1	16FEB2011 05:25:45	16FEB2011 06:37:48	0	33	31	0	0	1	0	0	
5	SCI_NLC_1CUDPA20110216_065211_000059783099_00308_46874_4664.N1	16FEB2011 07:05:59	16FEB2011 08:17:55	0	33	31	0	0	1	0	0	

6	SCI_NLC_1CUDPA20110216_083153_000060413099_00309_46875_4665.N1	16FEB2011 08:46:13	16FEB2011 09:59:10	0	34	31	0	0	1	0	0	
7	SCI_NLC_1CUDPA20110216_101238_000059783099_00310_46876_4667.N1	16FEB2011 10:26:26	16FEB2011 11:39:16	0	34	31	0	0	1	0	0	
8	SCI_NLC_1CUDPA20110216_115303_000059973099_00311_46877_4680.N1	16FEB2011 12:06:39	16FEB2011 13:19:22	0	34	31	0	0	1	0	0	
9	SCI_NLC_1CUDPA20110216_133305_000060213099_00312_46878_4682.N1	16FEB2011 13:46:53	16FEB2011 14:59:28	0	34	30	0	0	1	0	0	
10	SCI_NLC_1CUDPA20110216_151330_000059973099_00313_46879_4673.N1	16FEB2011 15:27:07	16FEB2011 16:39:34	0	34	30	0	0	1	0	0	
11	SCI_NLC_1CUDPA20110216_165332_000060633099_00314_46880_4670.N1	16FEB2011 17:07:20	16FEB2011 18:31:04	0	29	28	0	9	1	0	0	
12	SCI_NLC_1CUDPA20110216_183441_000059333099_00315_46881_4669.N1	16FEB2011 18:35:04	16FEB2011 20:12:48	0	0	4	0	4	1	0	0	
13	SCI_NLC_1CUDPA20110216_201338_000049813099_00316_46882_4672.N1	16FEB2011 20:19:53	16FEB2011 20:33:54	0	0	4	0	2	0	0	0	
14	SCI_NLC_1CUDPA20110216_232350_000006443099_00317_46883_4678.N1	16FEB2011 23:23:50	16FEB2011 23:34:34	0	0	0	0	0	1	0	0	
15	SCI_NLC_1CUDPA20110216_233438_000059973099_00318_46884_4683.N1	16FEB2011 23:34:38	17FEB2011 01:14:35	0	0	0	0	0	1	0	0	

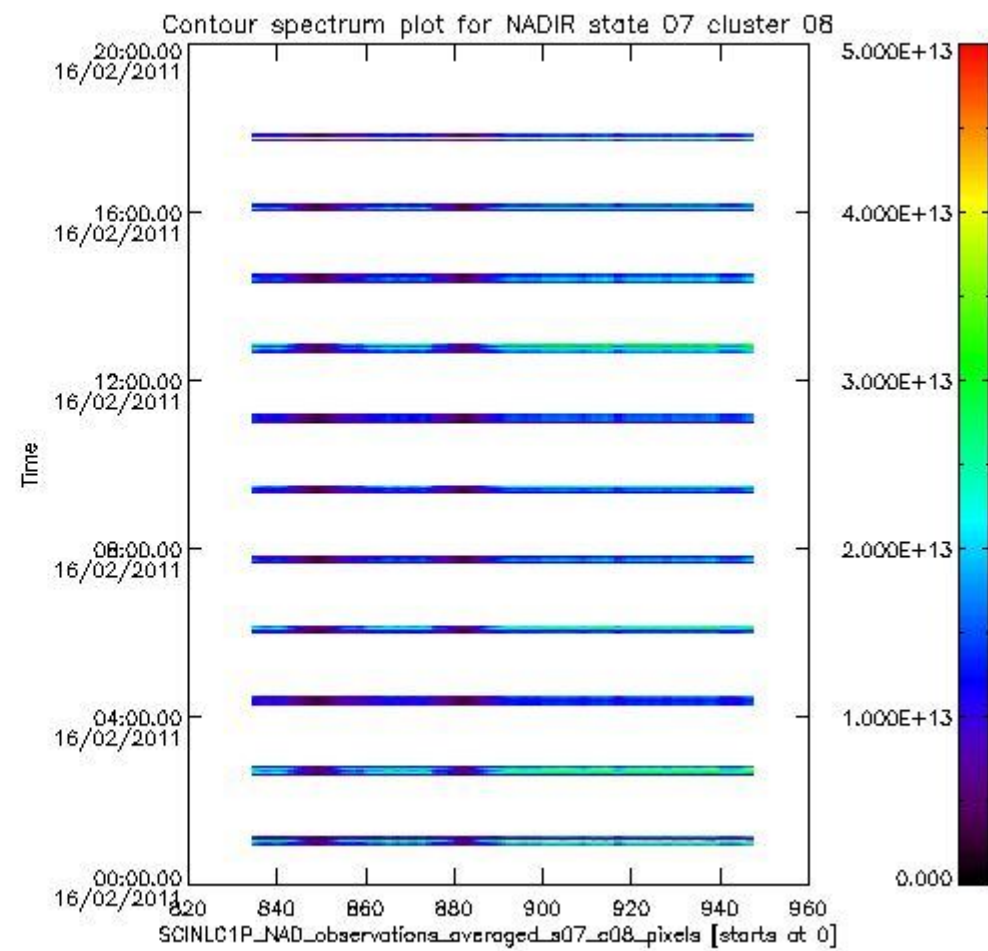
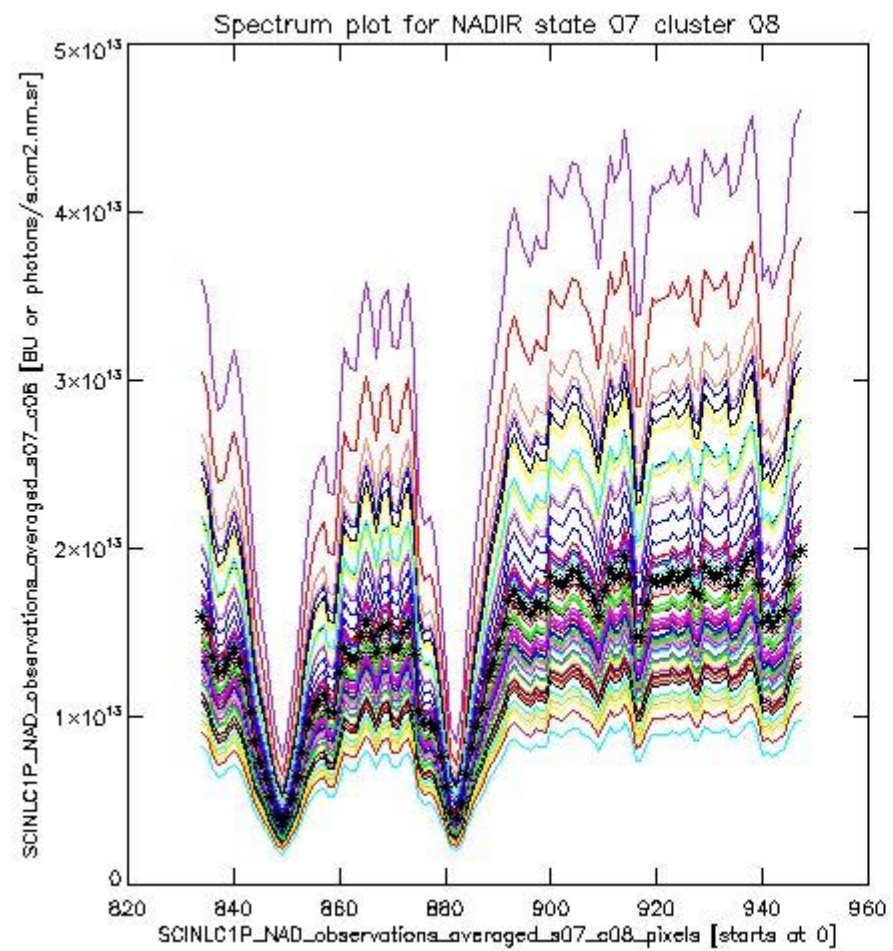
1.2 Source packet monitoring

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:

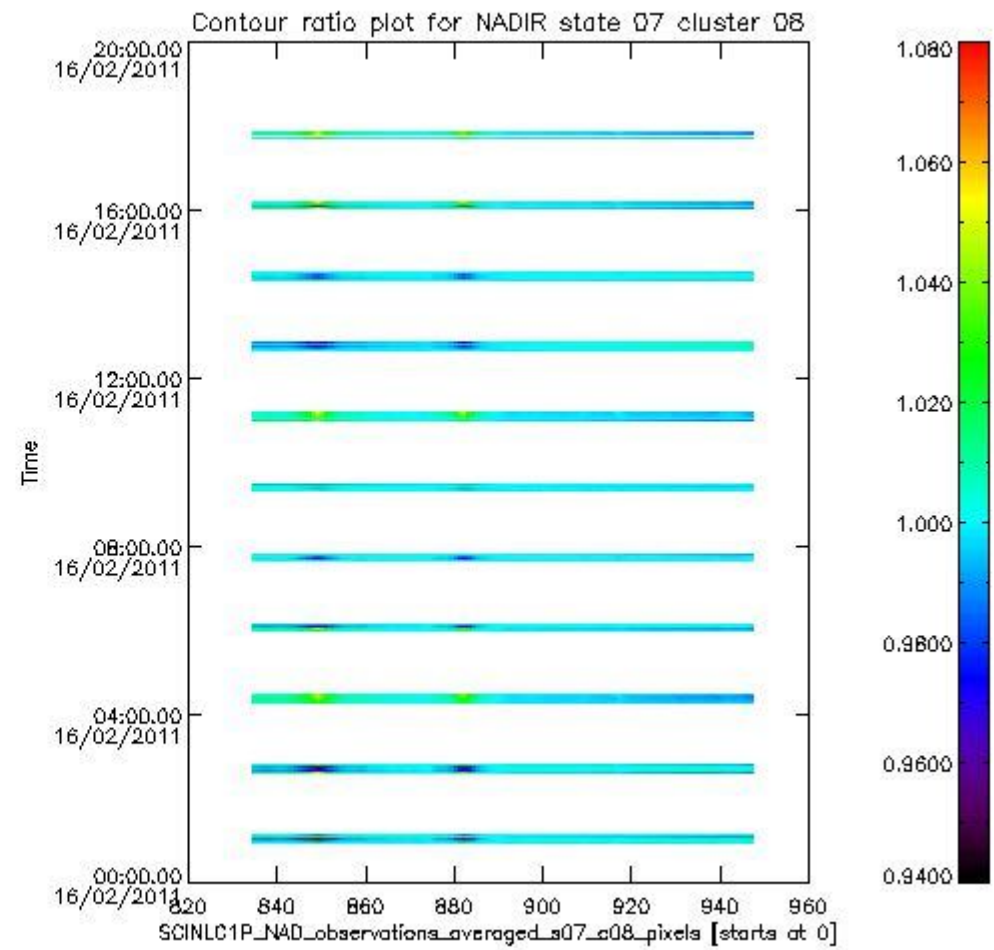
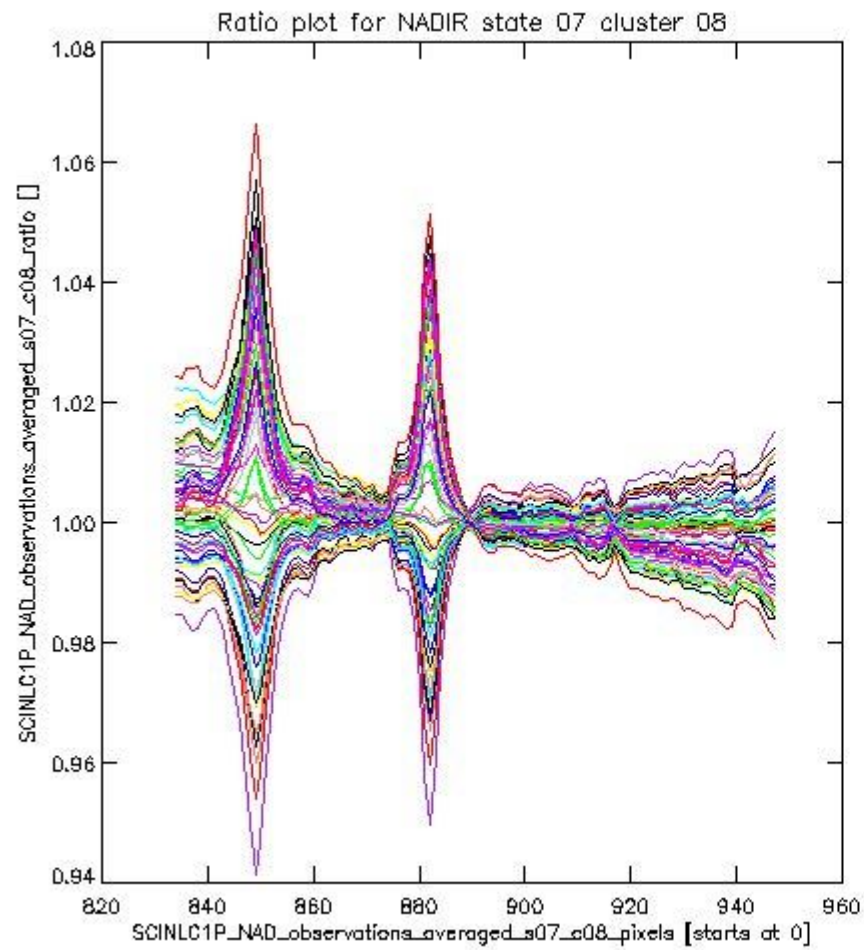
- A plot that shows all calibrated averaged spectra vs. pixel number as 2D-profiles. Each line is an average spectrum for a single state occurrence. For Limb modes, the average is performed on spectra recorded at a specific height. The reference spectrum that is used for comparison is also shown as a 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	16FEB2011 00:57:07.892
Start time of last sample	16FEB2011 17:48:03.064
Reference period start time	17JAN2011 00:59:21.464
Reference period stop time	15FEB2011 23:27:08.114
Channel number	2
First pixel number (starts at 0)	834
Last pixel number (starts at 0)	947



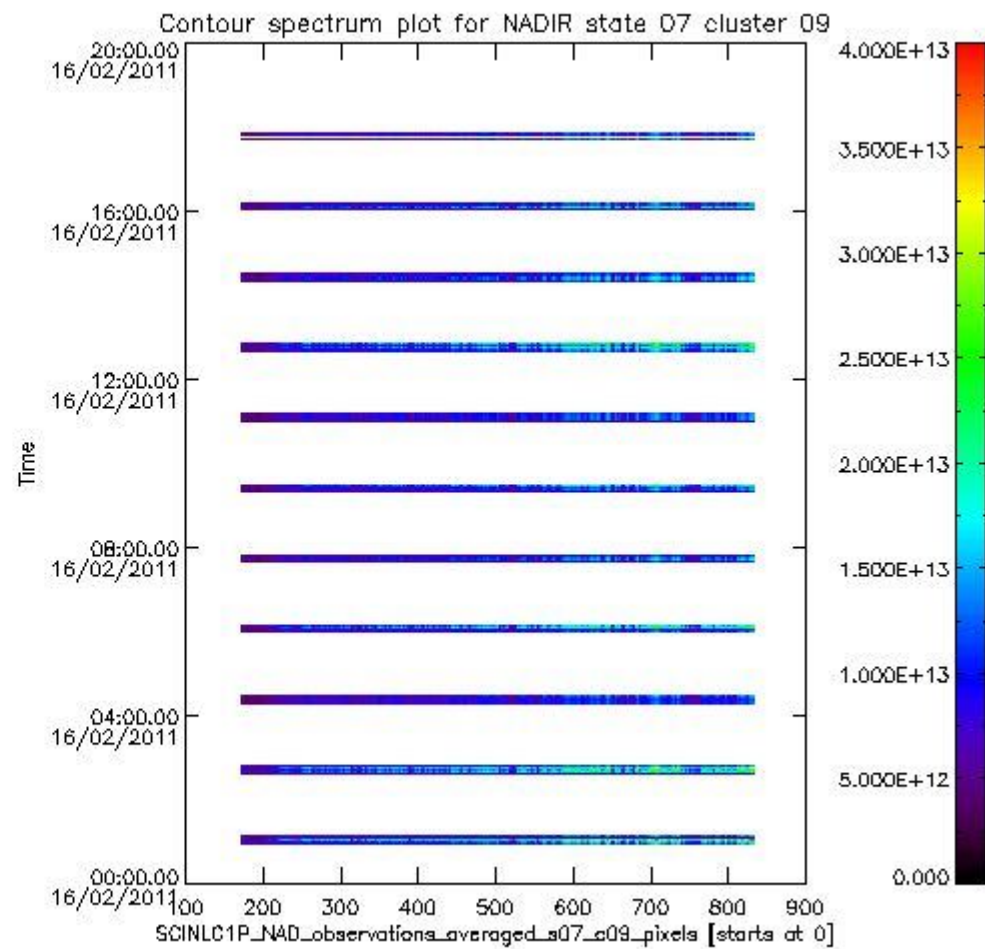
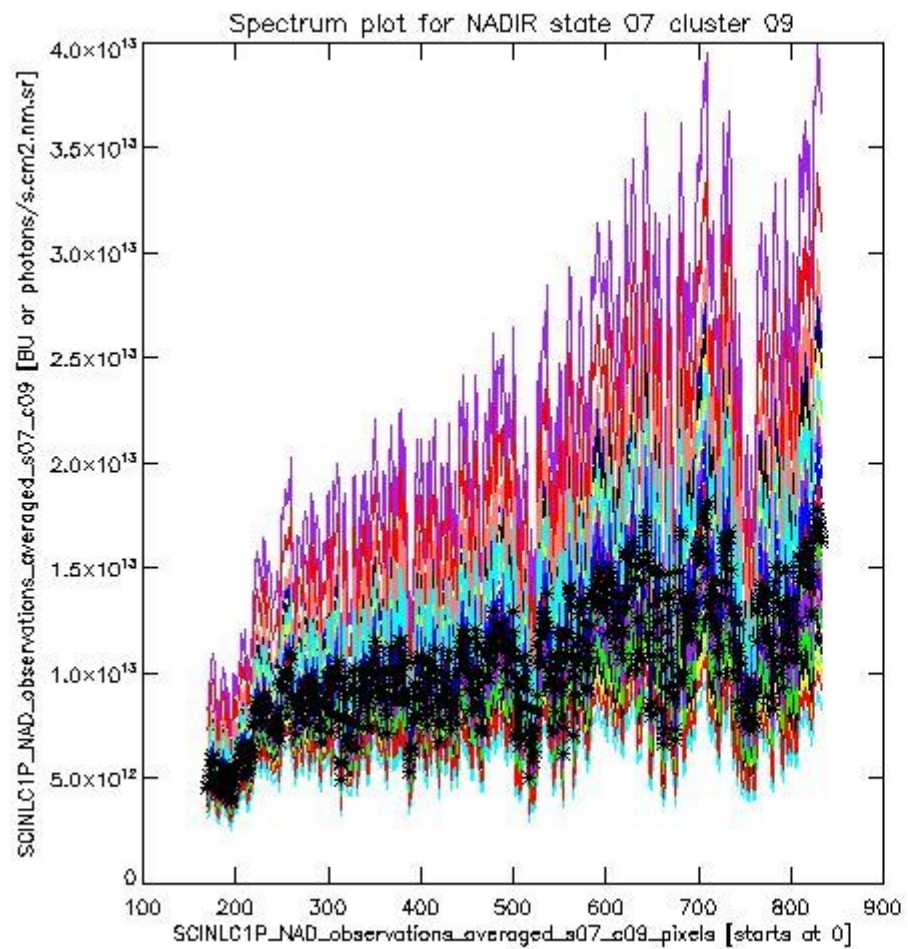
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110216_0.PNG



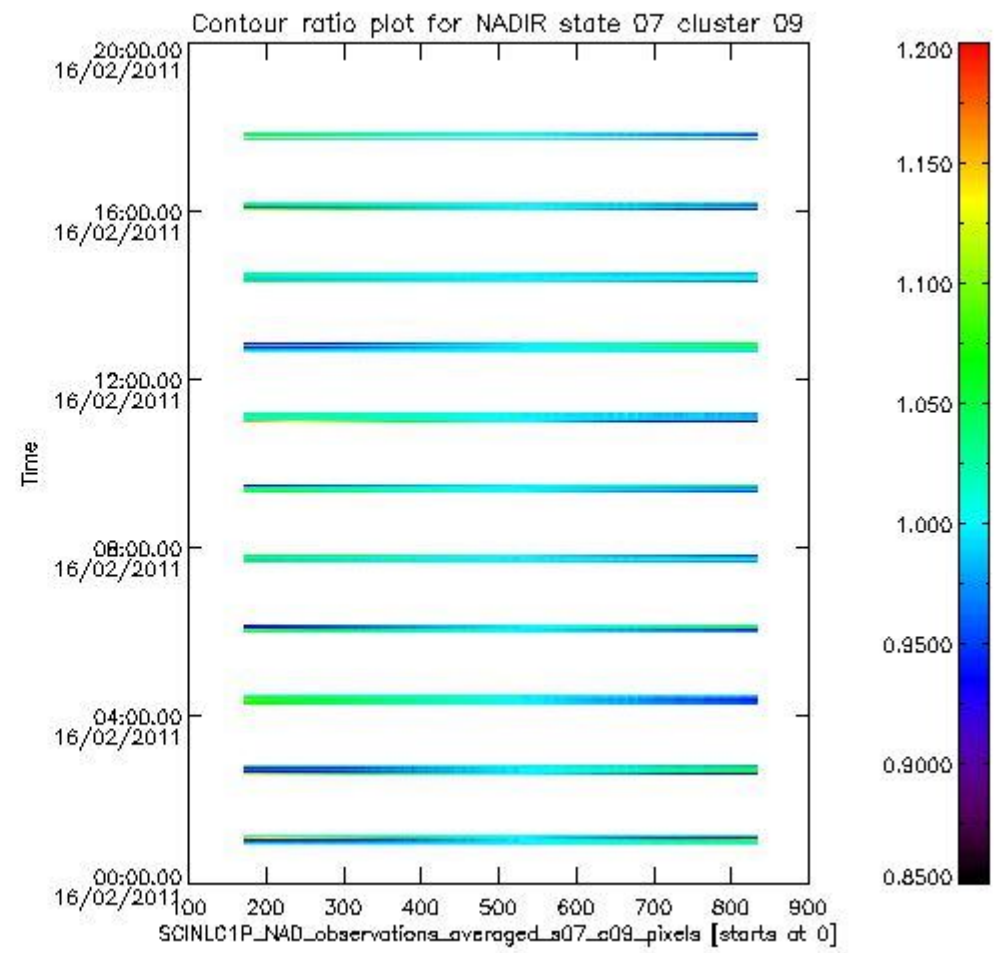
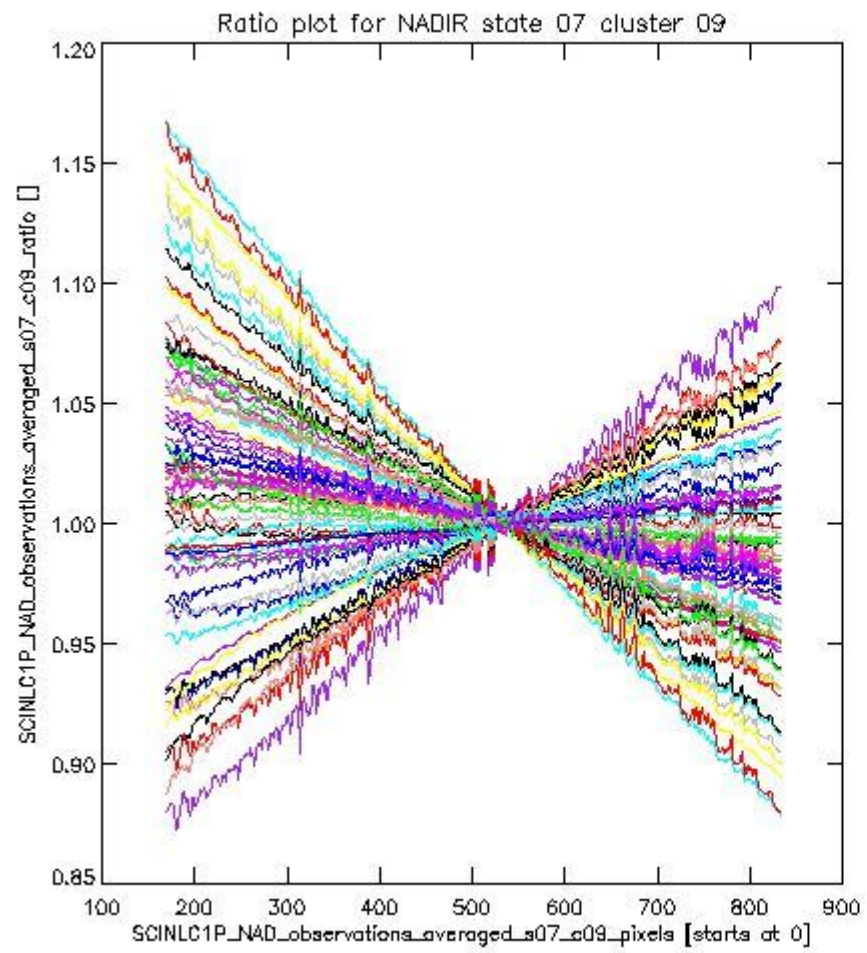
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110216_1.PNG

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	16FEB2011 00:57:07.892
Start time of last sample	16FEB2011 17:48:03.064
Reference period start time	17JAN2011 00:59:21.464
Reference period stop time	15FEB2011 23:27:08.114
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	833



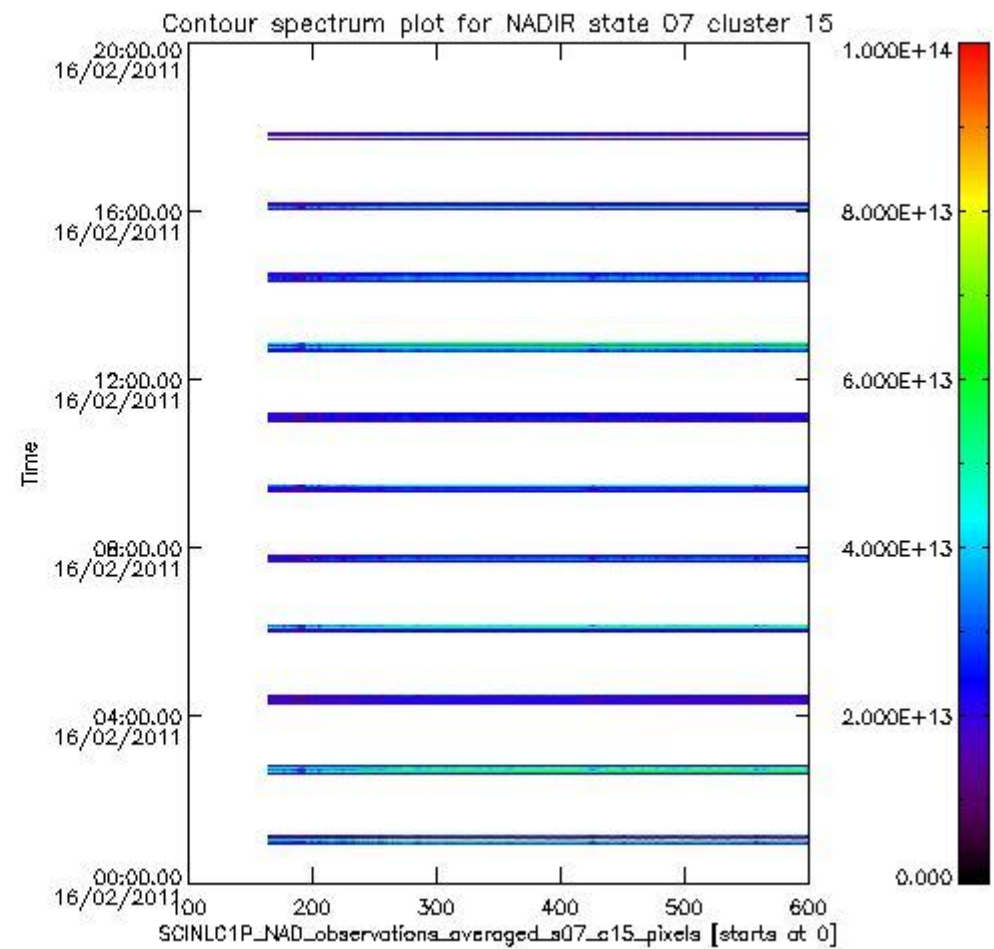
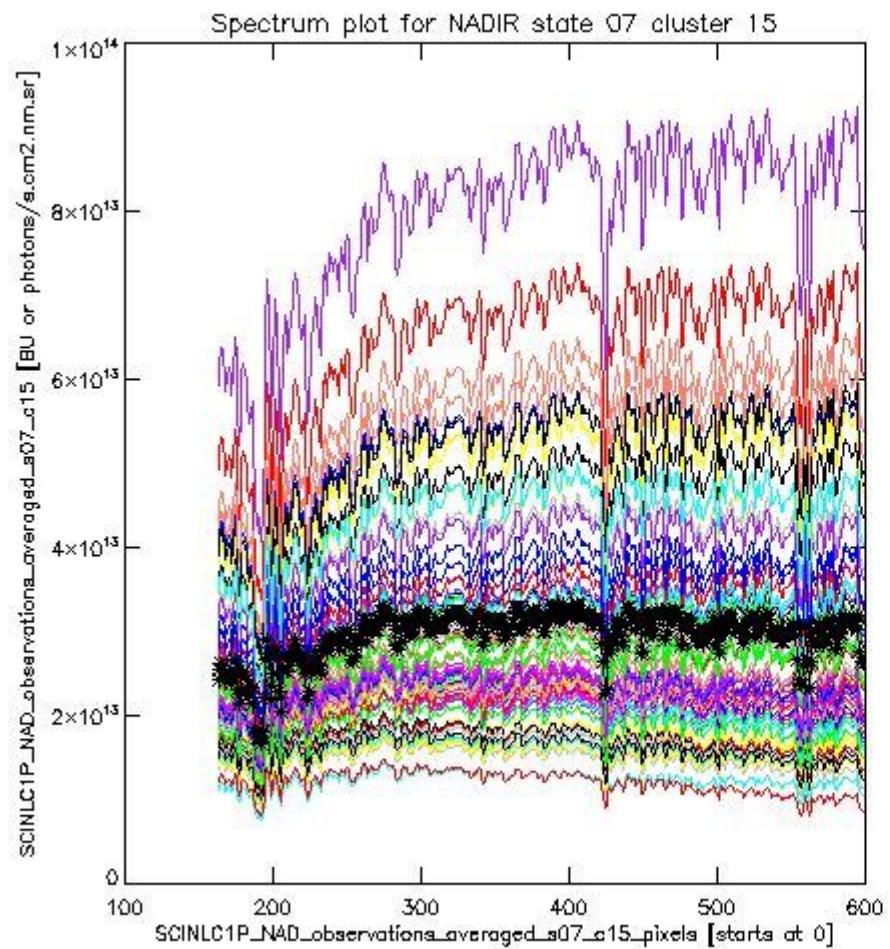
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110216_2.PNG



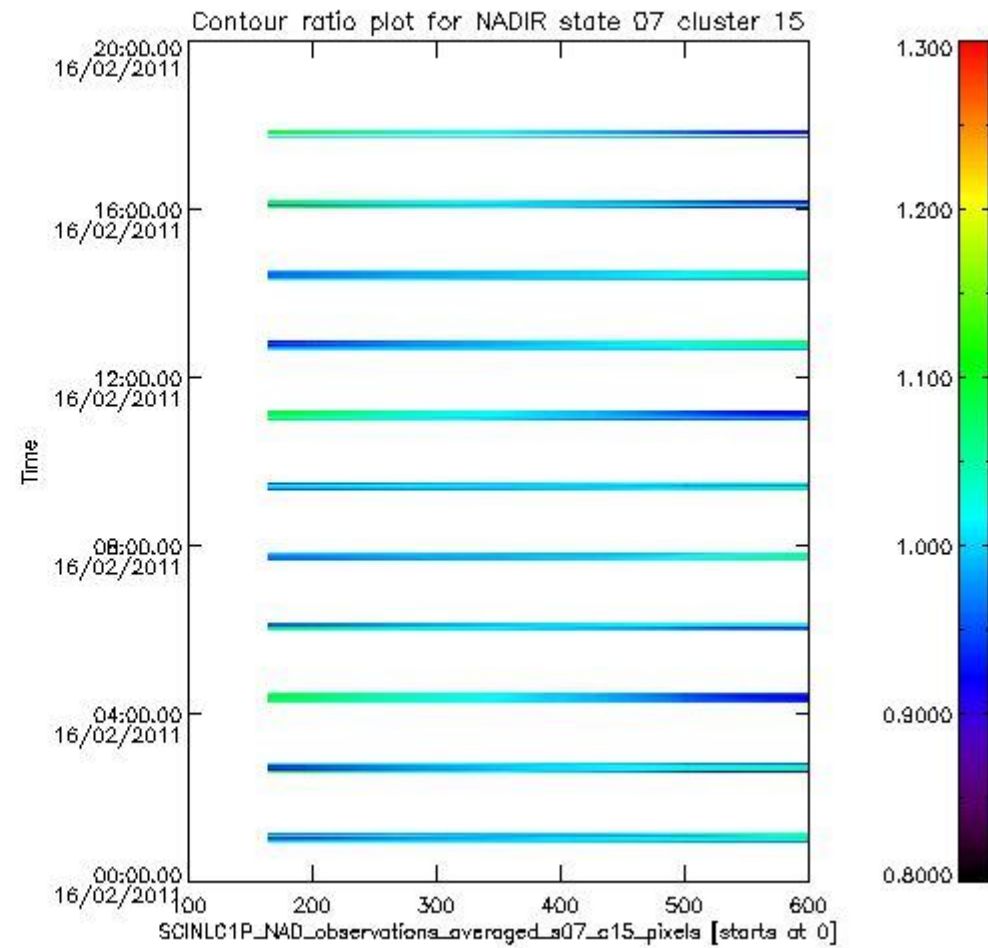
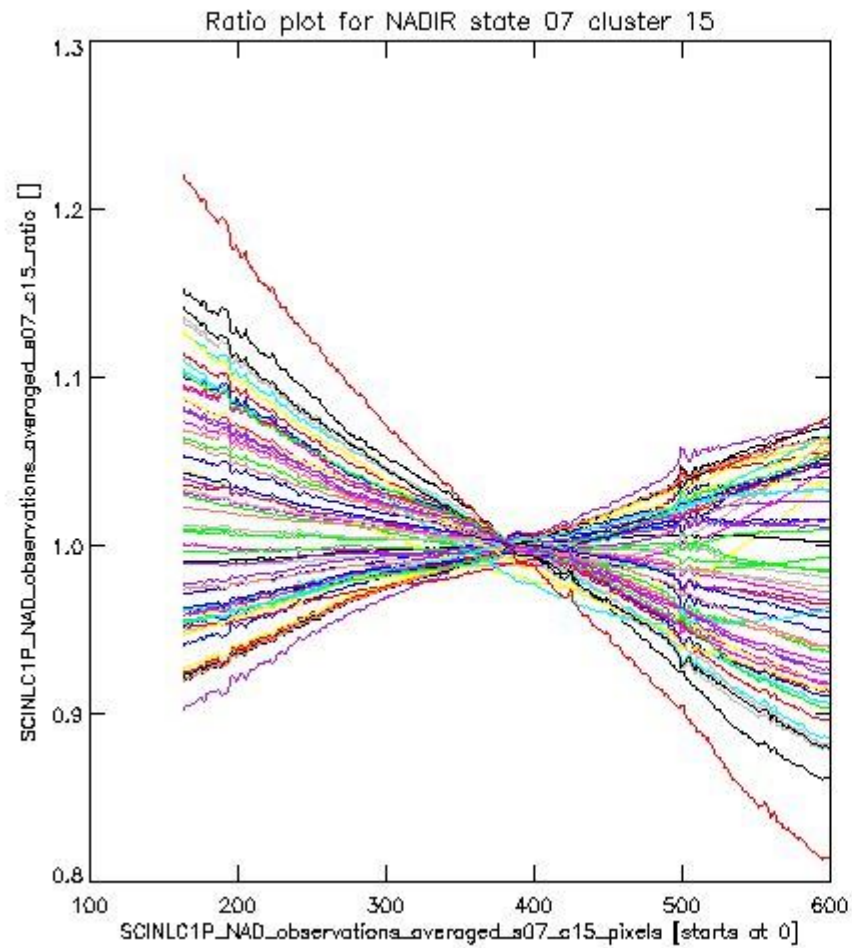
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110216_3.PNG

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	16FEB2011 00:57:07.892
Start time of last sample	16FEB2011 17:48:03.064
Reference period start time	17JAN2011 00:59:21.464
Reference period stop time	15FEB2011 23:27:08.114
Channel number	3
First pixel number (starts at 0)	163
Last pixel number (starts at 0)	598



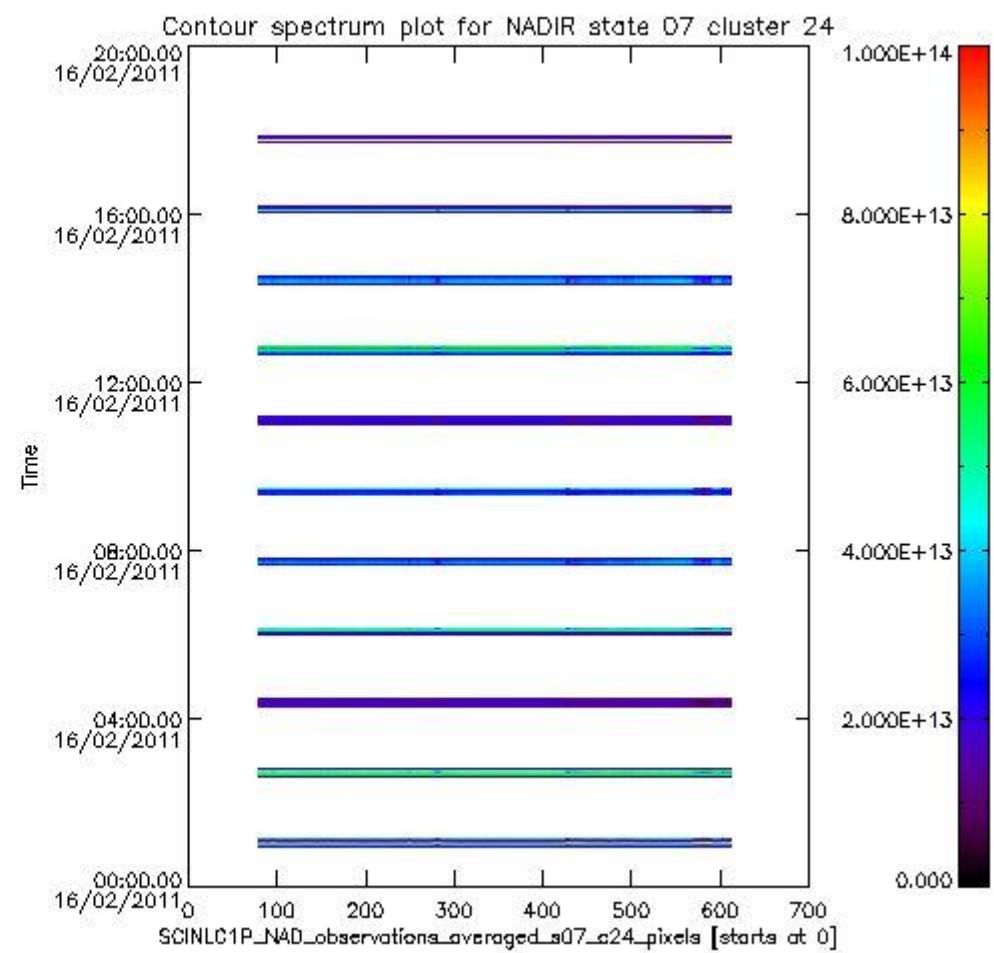
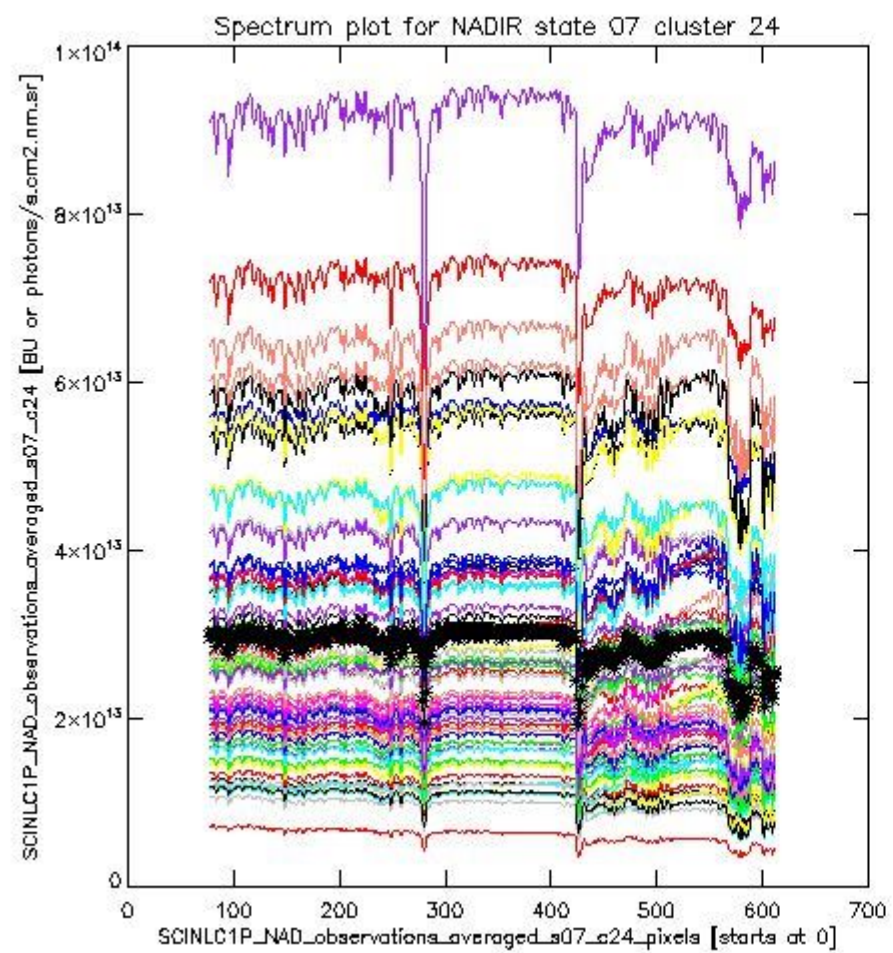
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110216_4.PNG



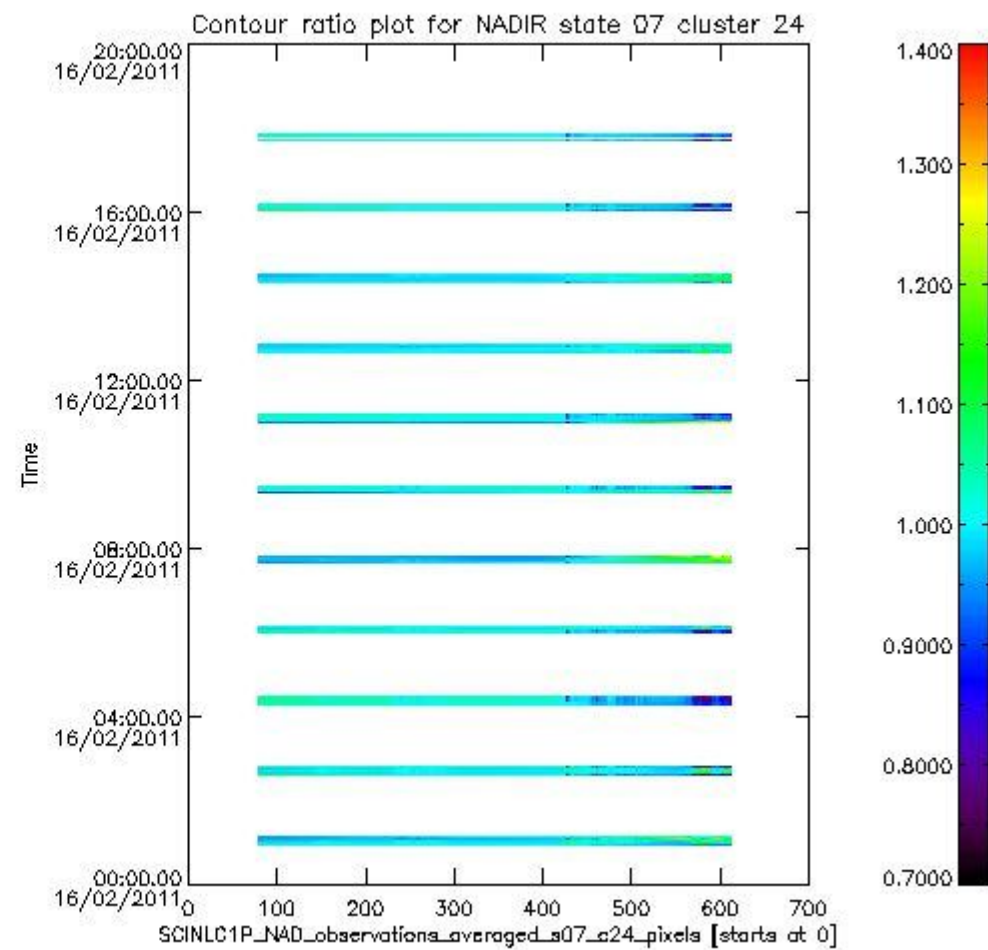
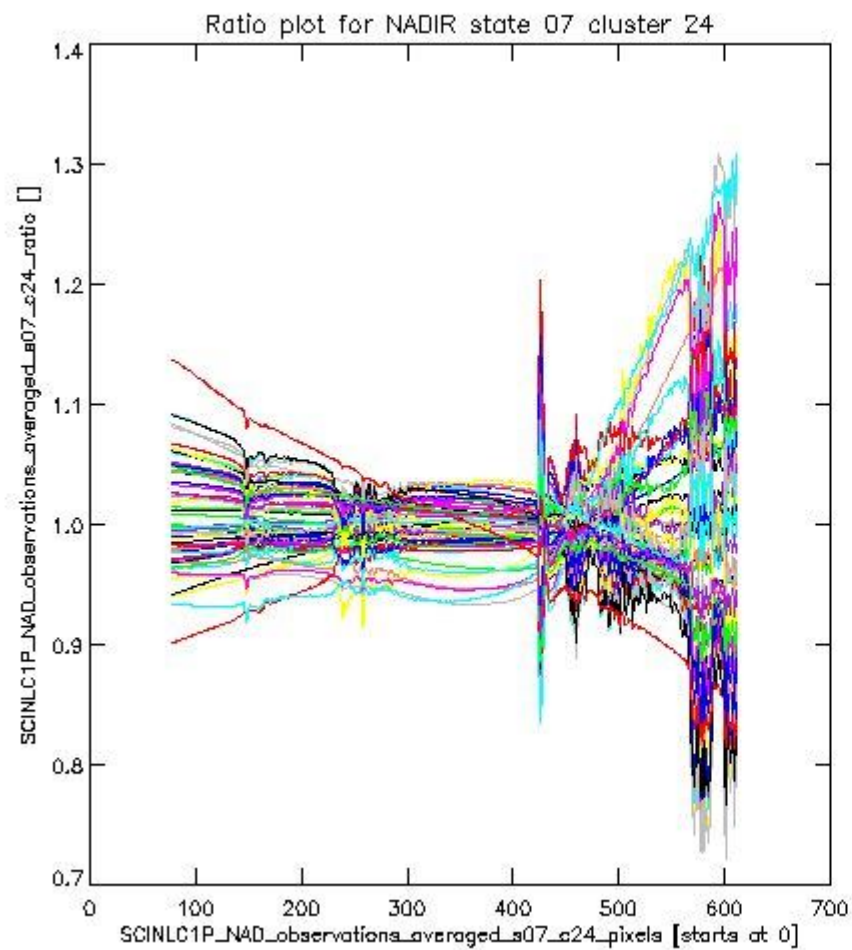
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110216_5.PNG

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	16FEB2011 00:57:07.892
Start time of last sample	16FEB2011 17:48:03.064
Reference period start time	17JAN2011 00:59:21.464
Reference period stop time	15FEB2011 23:27:08.114
Channel number	4
First pixel number (starts at 0)	78
Last pixel number (starts at 0)	612



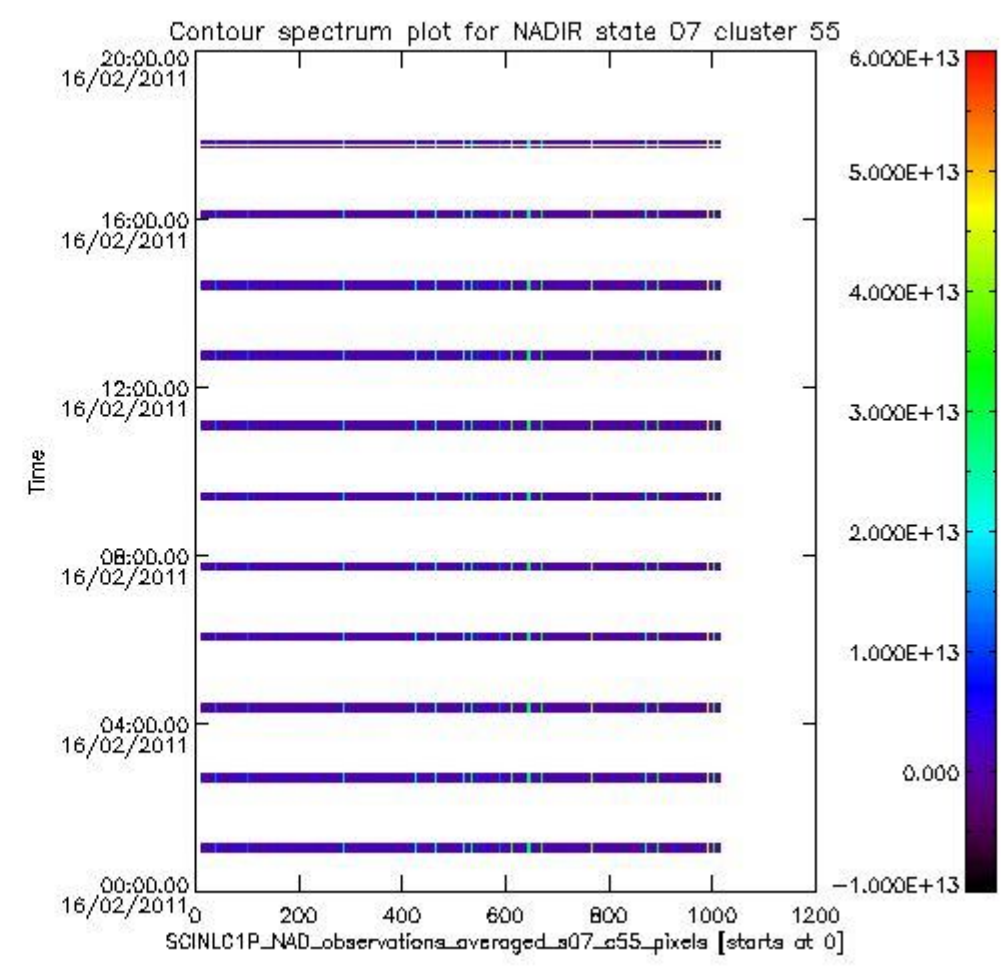
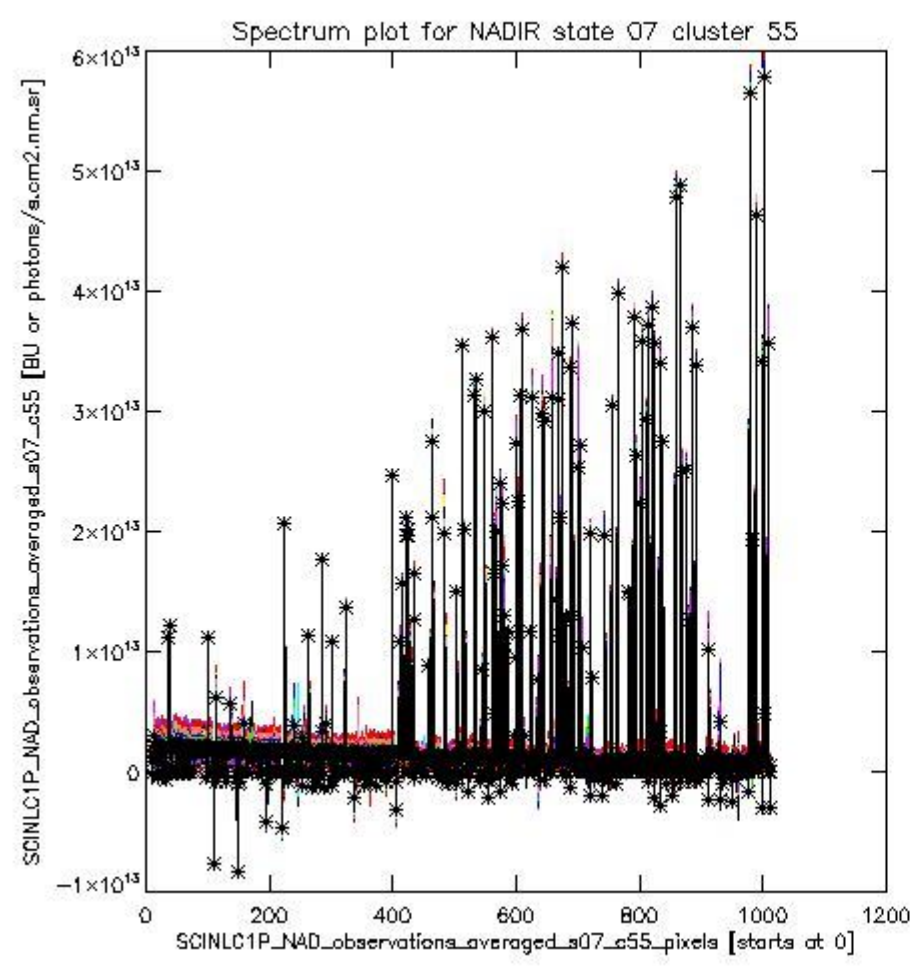
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110216_6.PNG



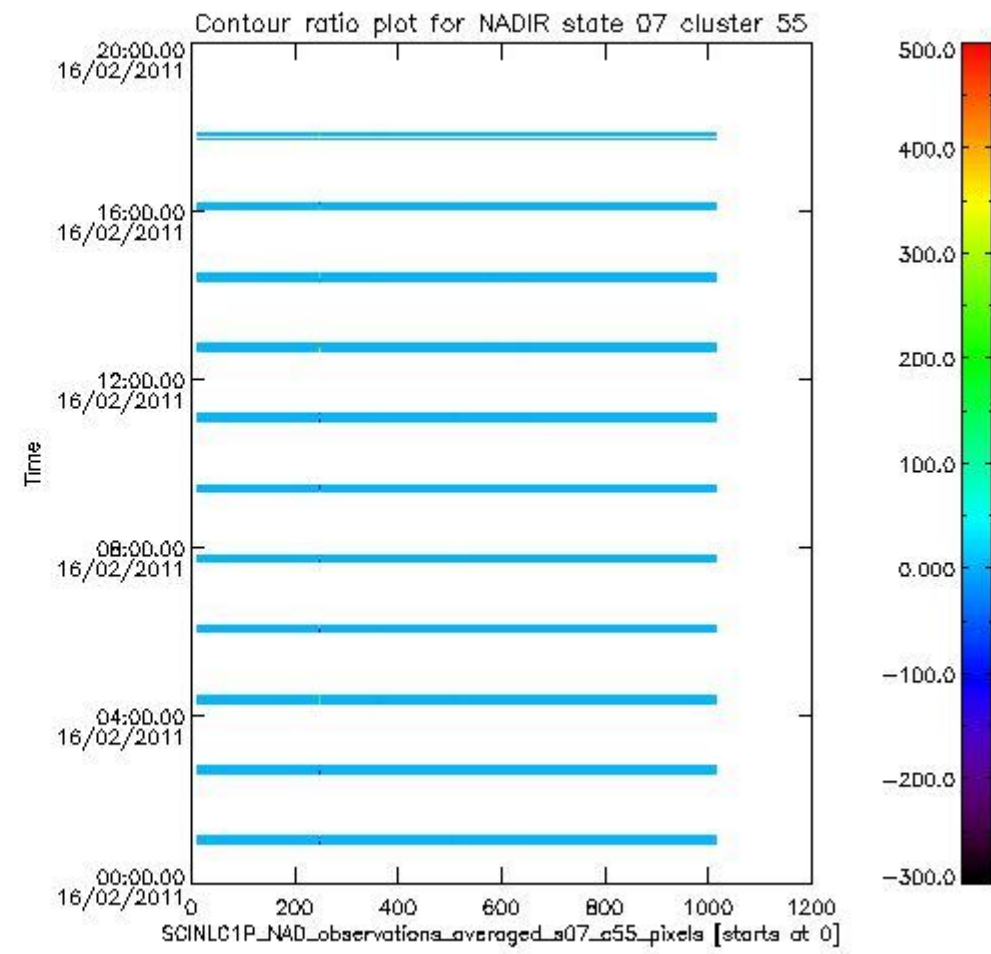
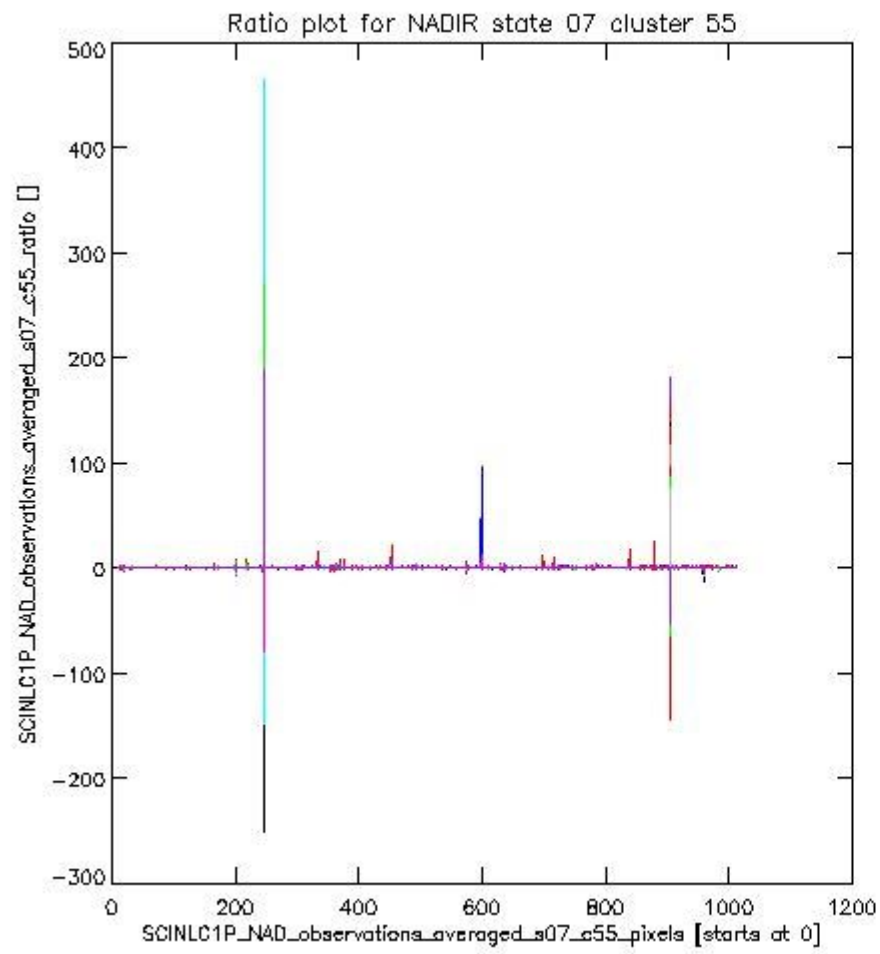
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110216_7.PNG

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	16FEB2011 00:57:07.892
Start time of last sample	16FEB2011 17:48:03.064
Reference period start time	17JAN2011 00:59:21.464
Reference period stop time	15FEB2011 23:27:08.114
Channel number	8
First pixel number (starts at 0)	10
Last pixel number (starts at 0)	1013



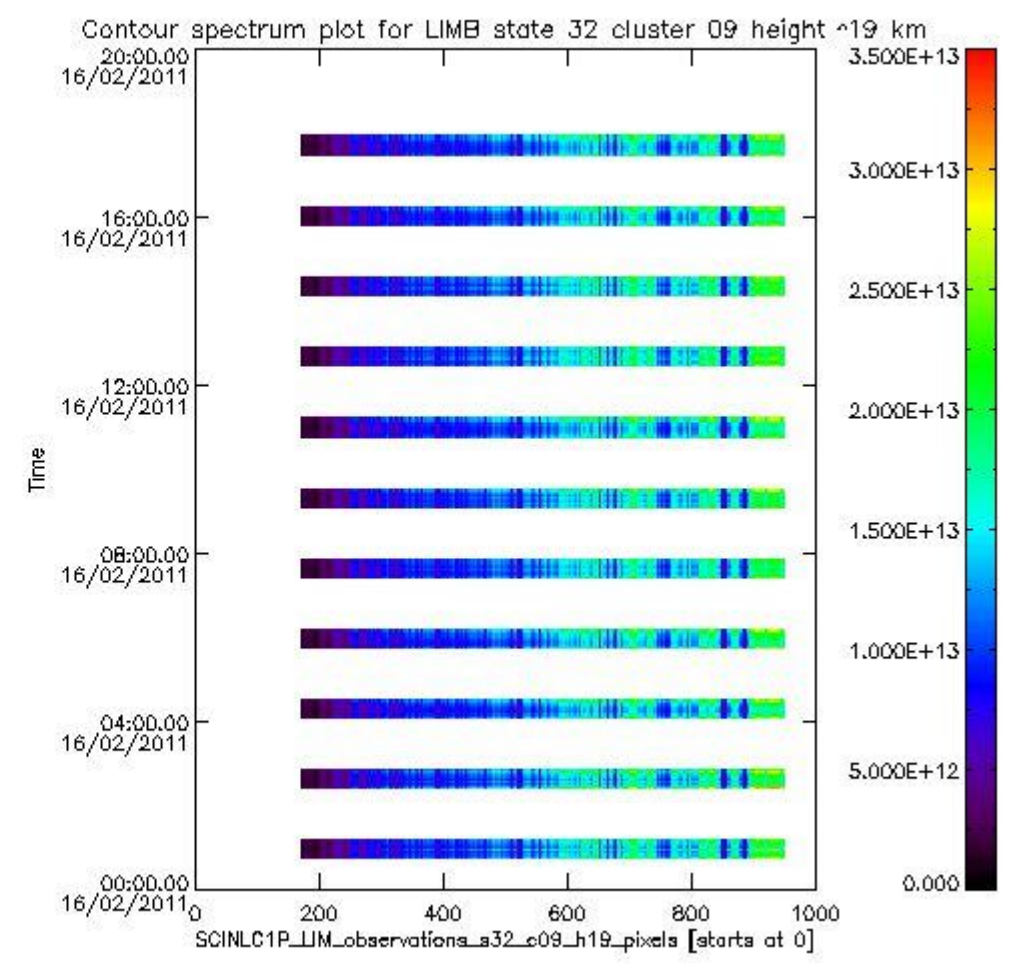
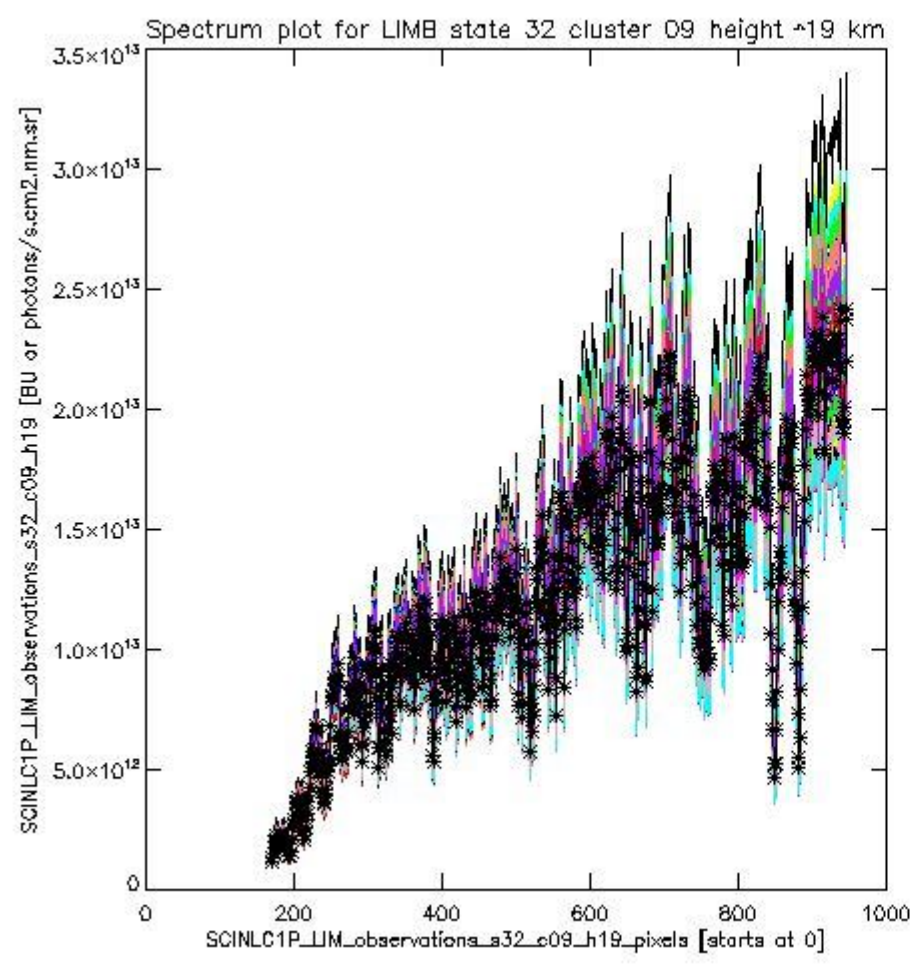
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110216_8.PNG



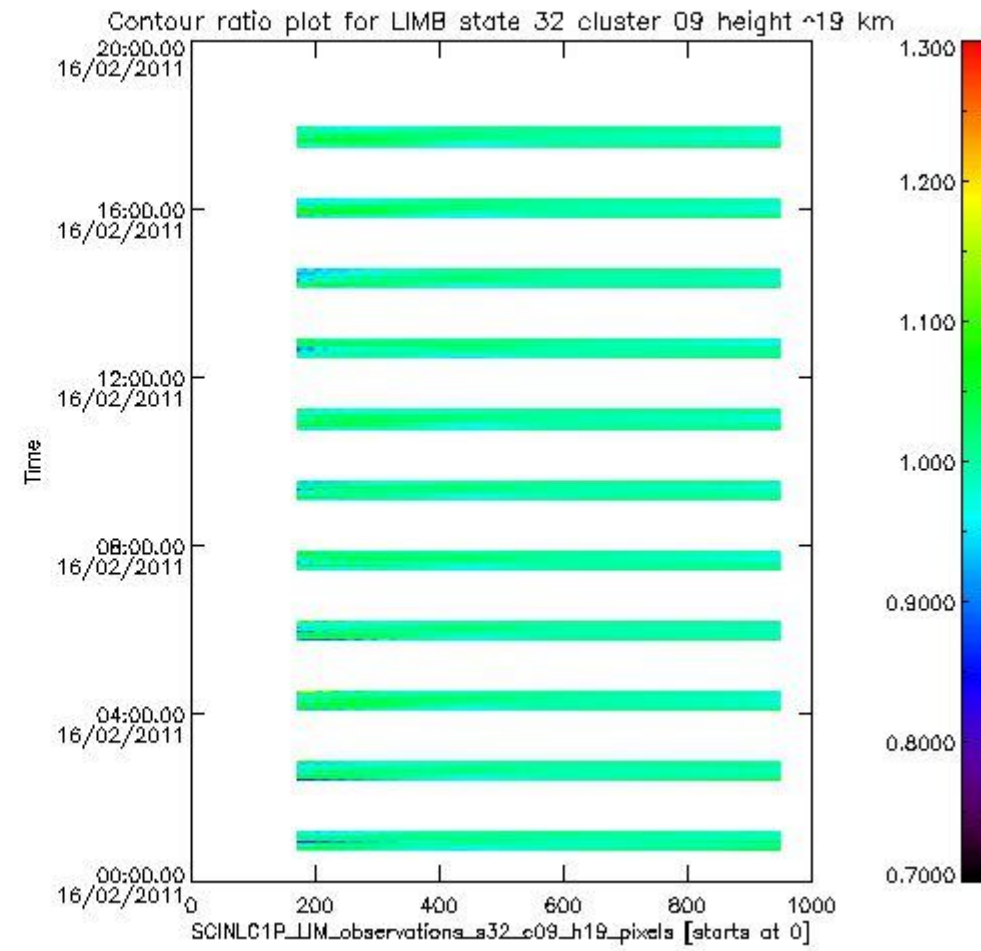
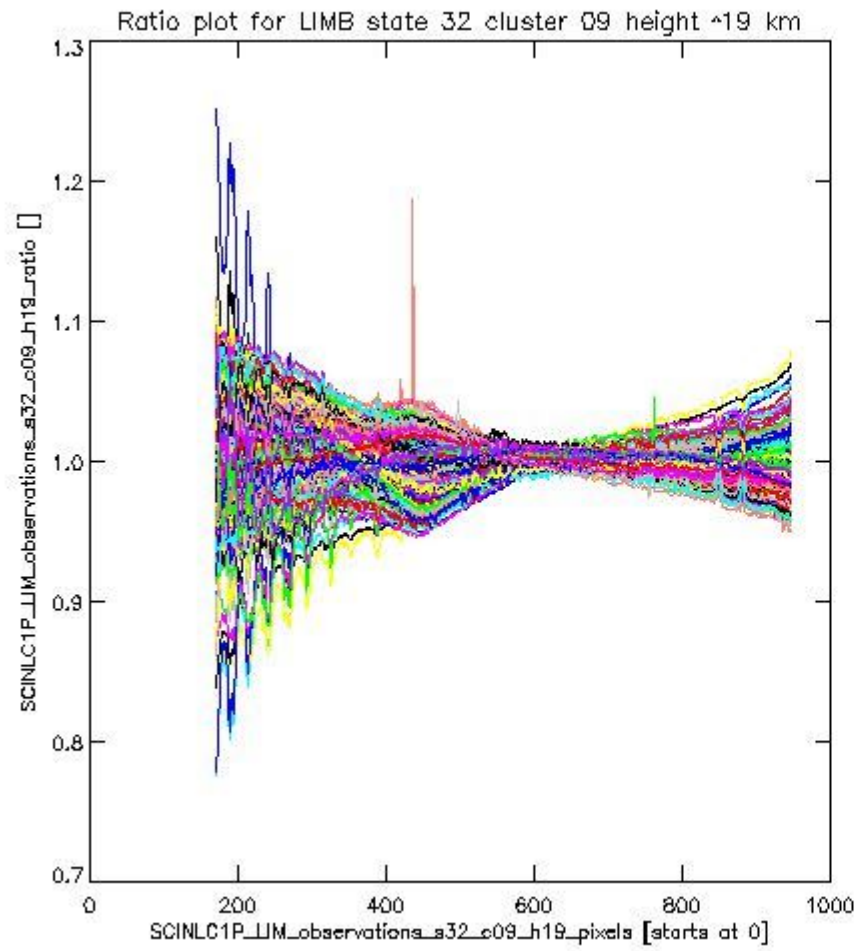
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110216_9.PNG

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	16FEB2011 00:43:57.255
Start time of last sample	16FEB2011 17:53:38.685
Reference period start time	17JAN2011 00:46:10.827
Reference period stop time	15FEB2011 23:30:19.415
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	947



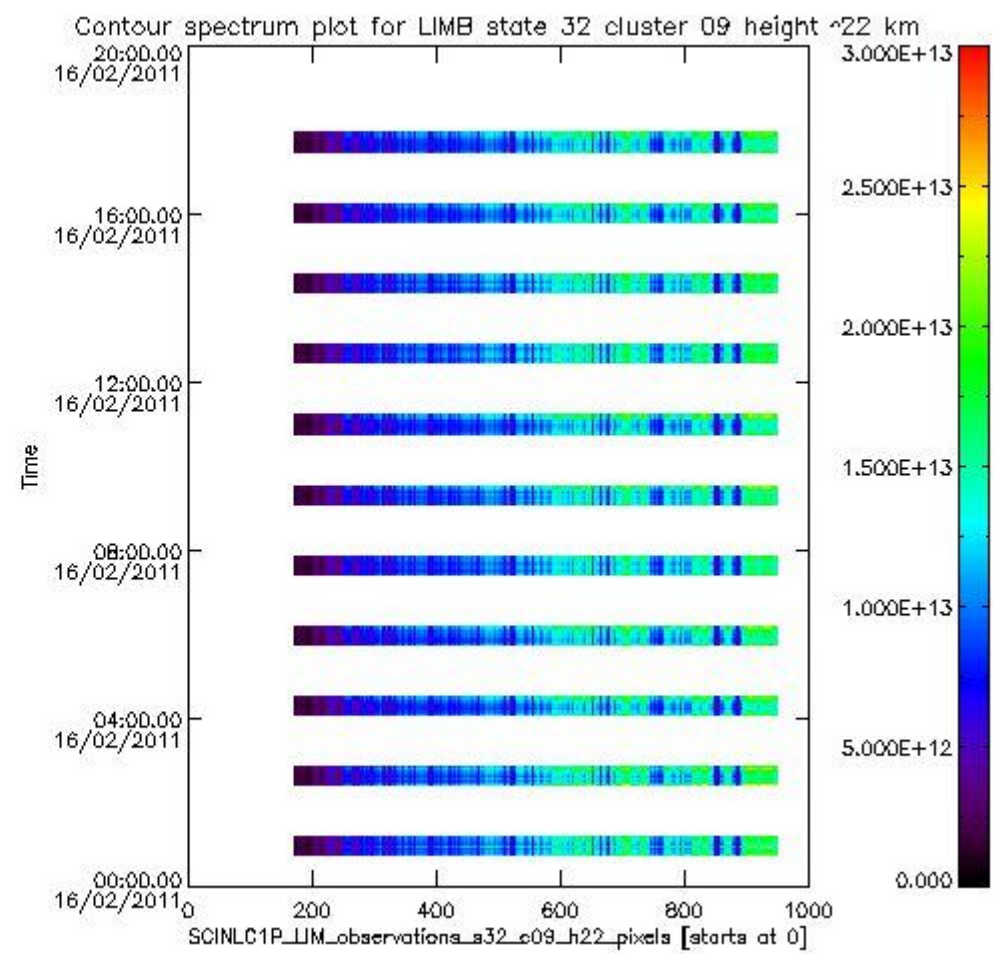
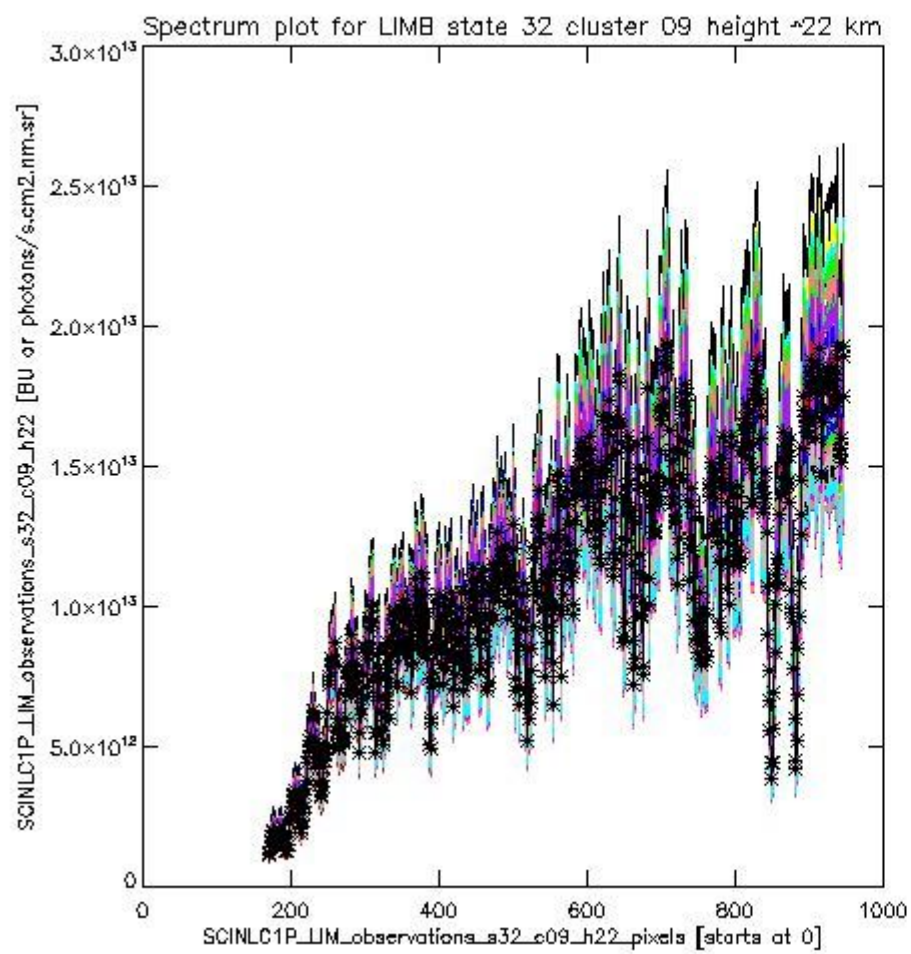
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110216_10.PNG



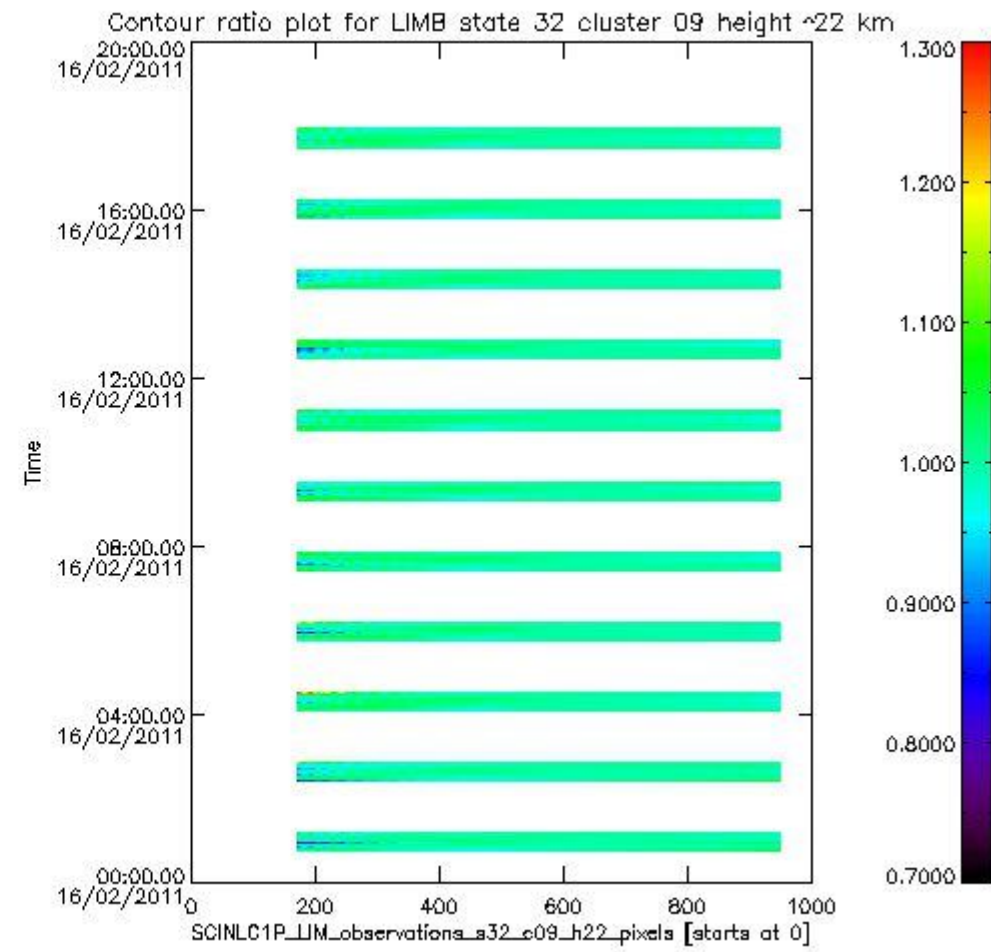
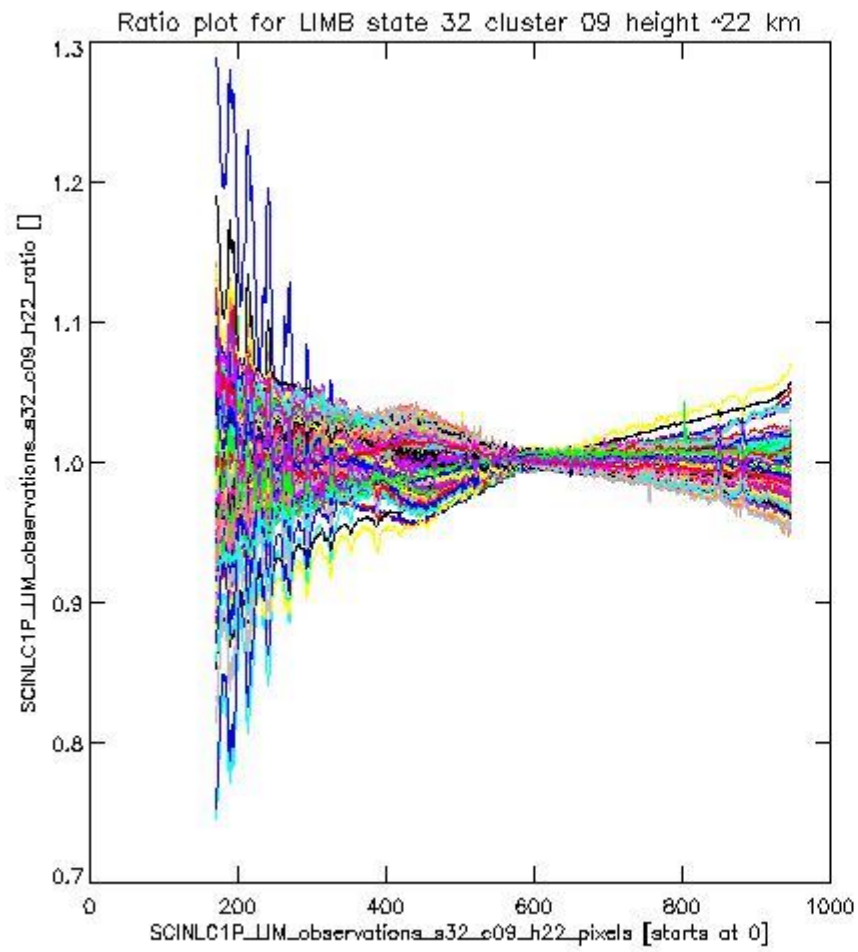
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110216_11.PNG

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	16FEB2011 00:43:57.255
Start time of last sample	16FEB2011 17:53:38.685
Reference period start time	17JAN2011 00:46:10.827
Reference period stop time	15FEB2011 23:30:19.415
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	947



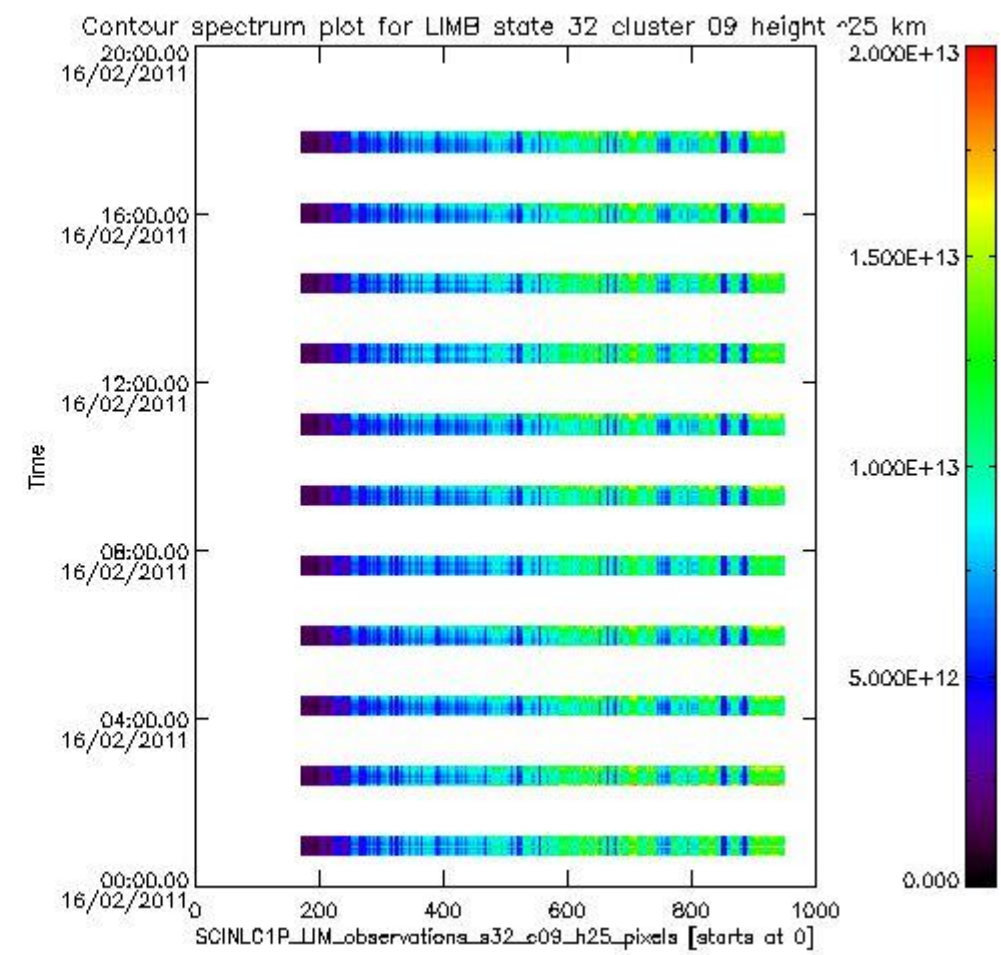
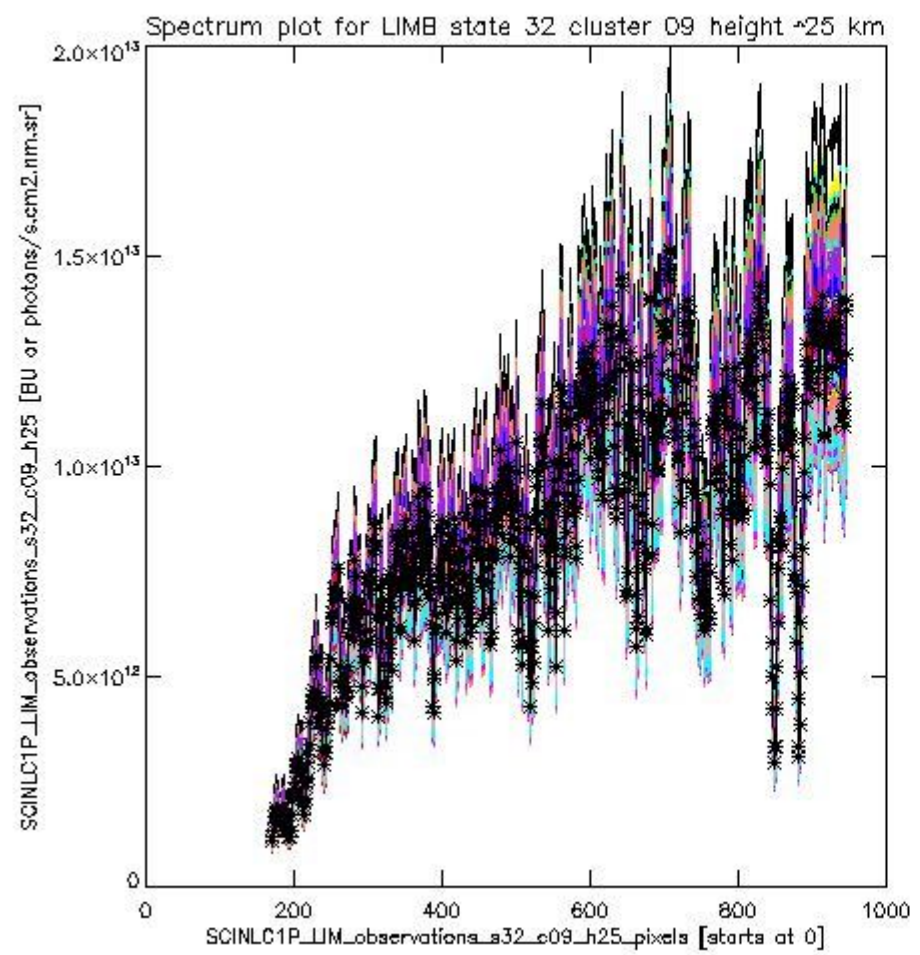
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110216_12.PNG



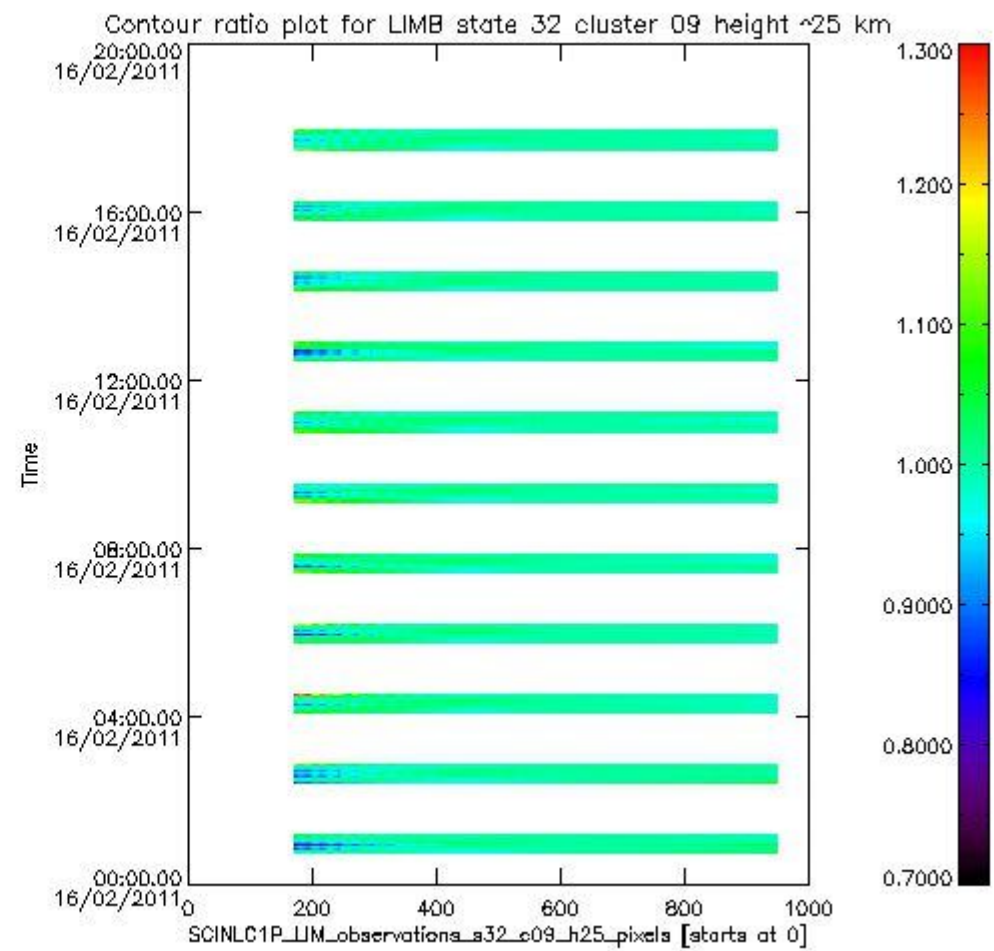
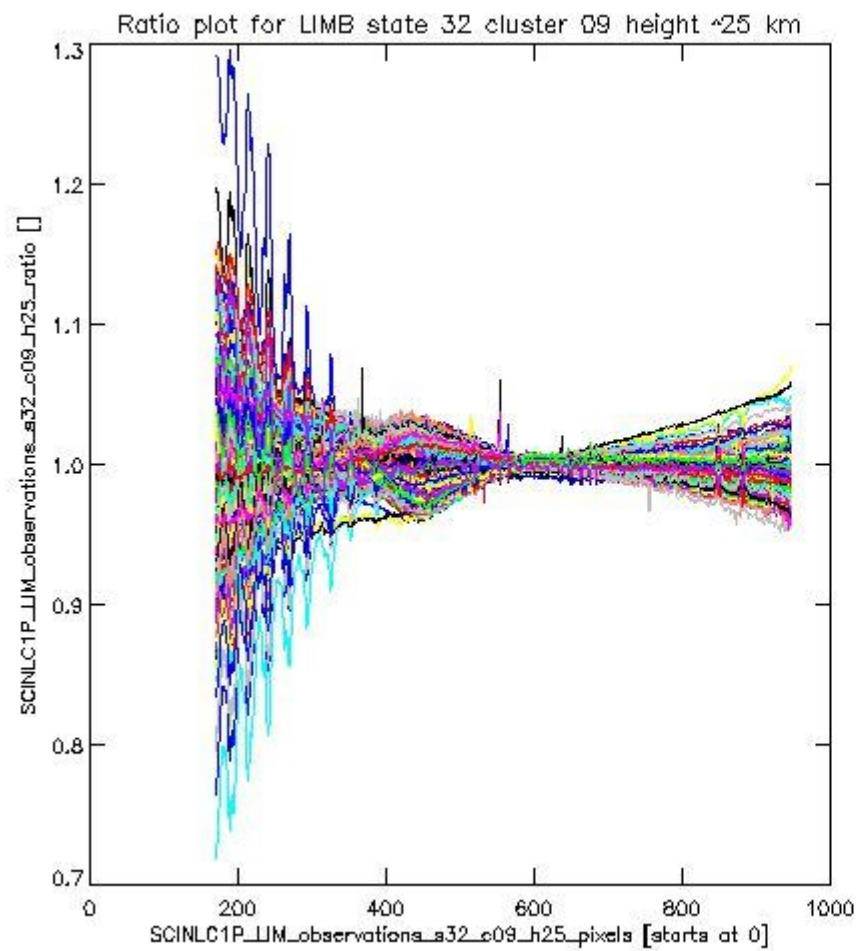
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110216_13.PNG

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	16FEB2011 00:43:57.255
Start time of last sample	16FEB2011 17:53:38.685
Reference period start time	17JAN2011 00:46:10.827
Reference period stop time	15FEB2011 23:30:19.415
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	947



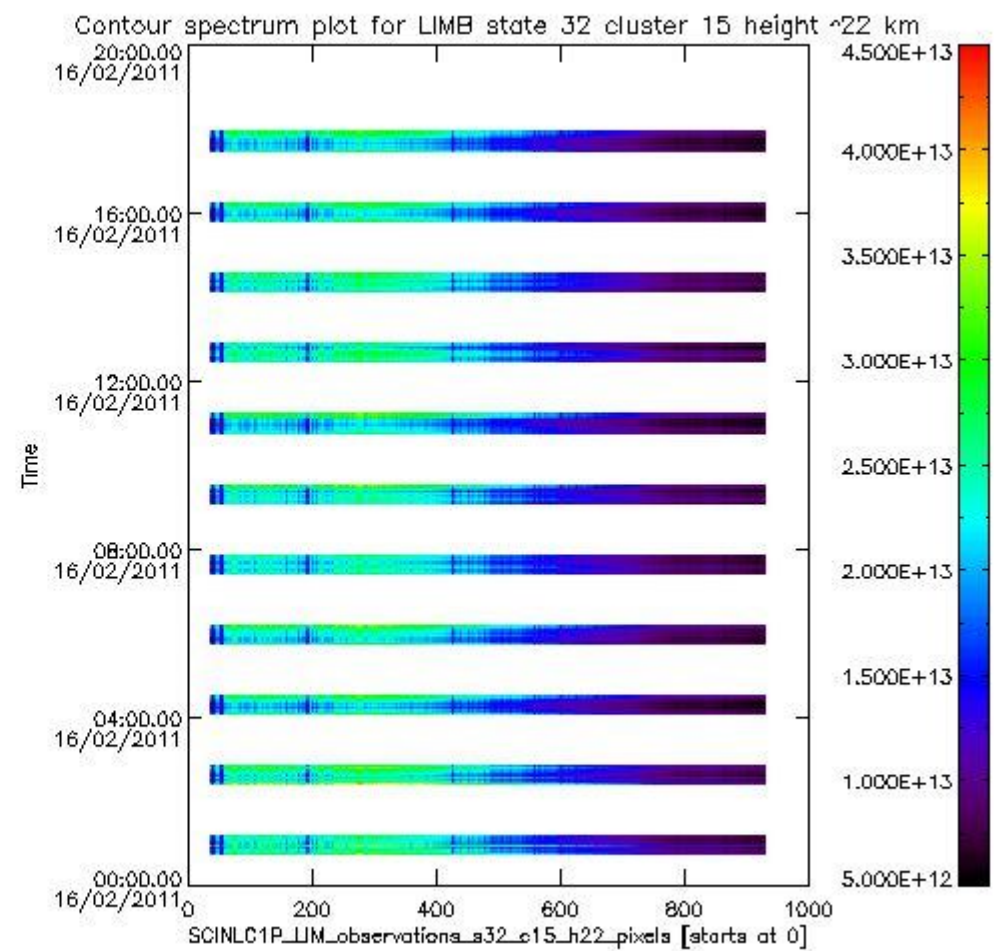
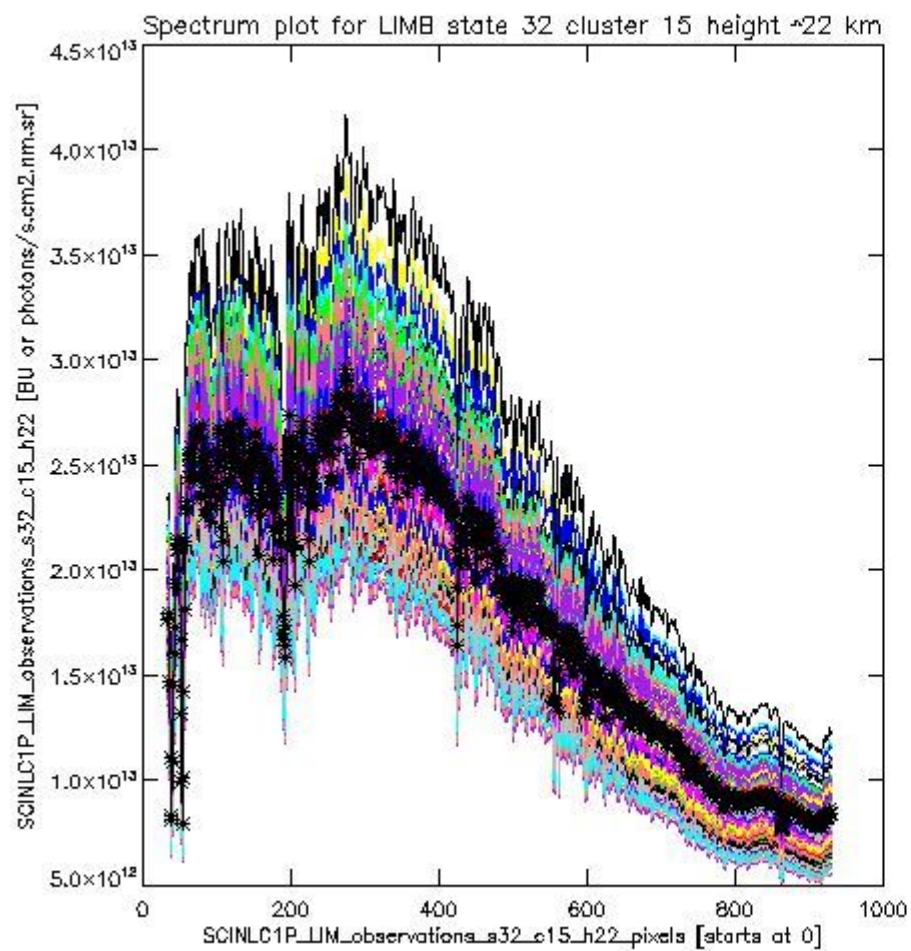
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110216_14.PNG



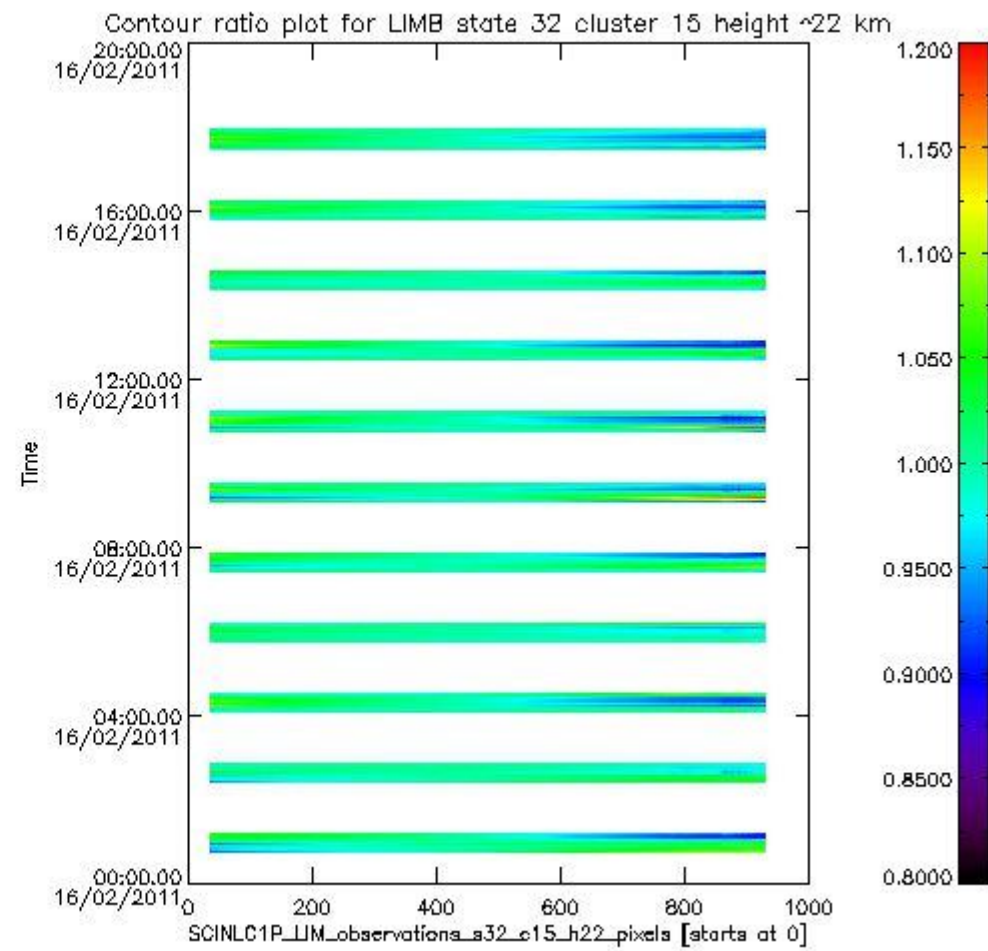
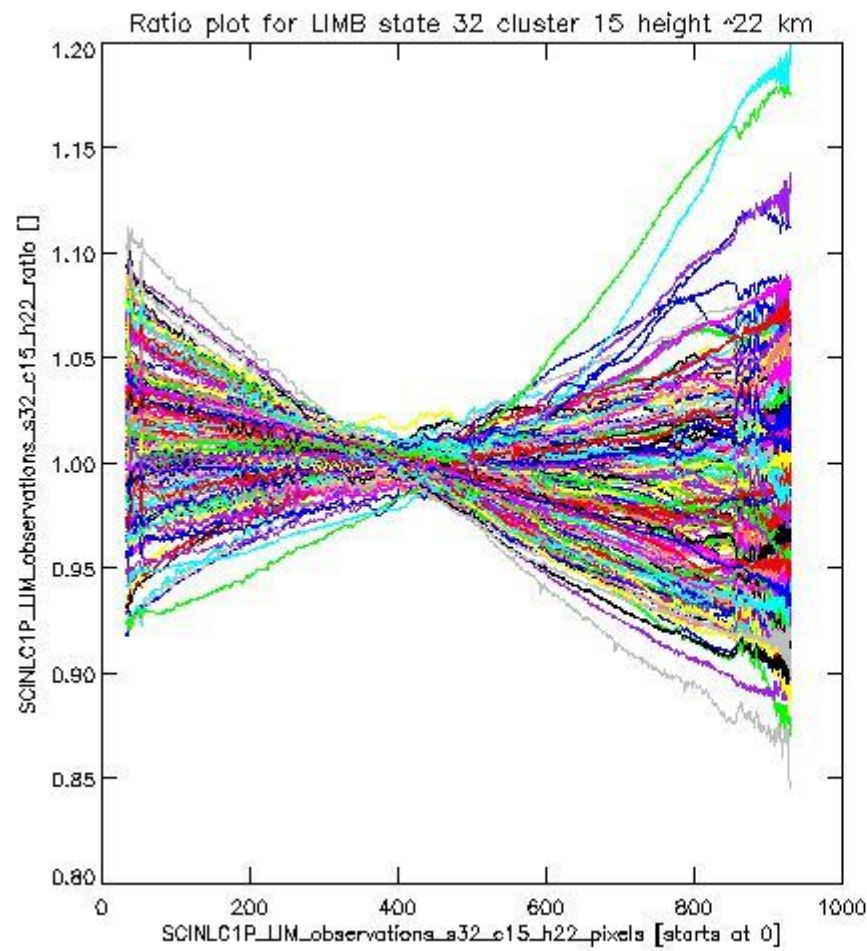
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110216_15.PNG

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	16FEB2011 00:43:57.255
Start time of last sample	16FEB2011 17:53:38.685
Reference period start time	17JAN2011 00:46:10.827
Reference period stop time	15FEB2011 23:30:19.415
Channel number	3
First pixel number (starts at 0)	33
Last pixel number (starts at 0)	929



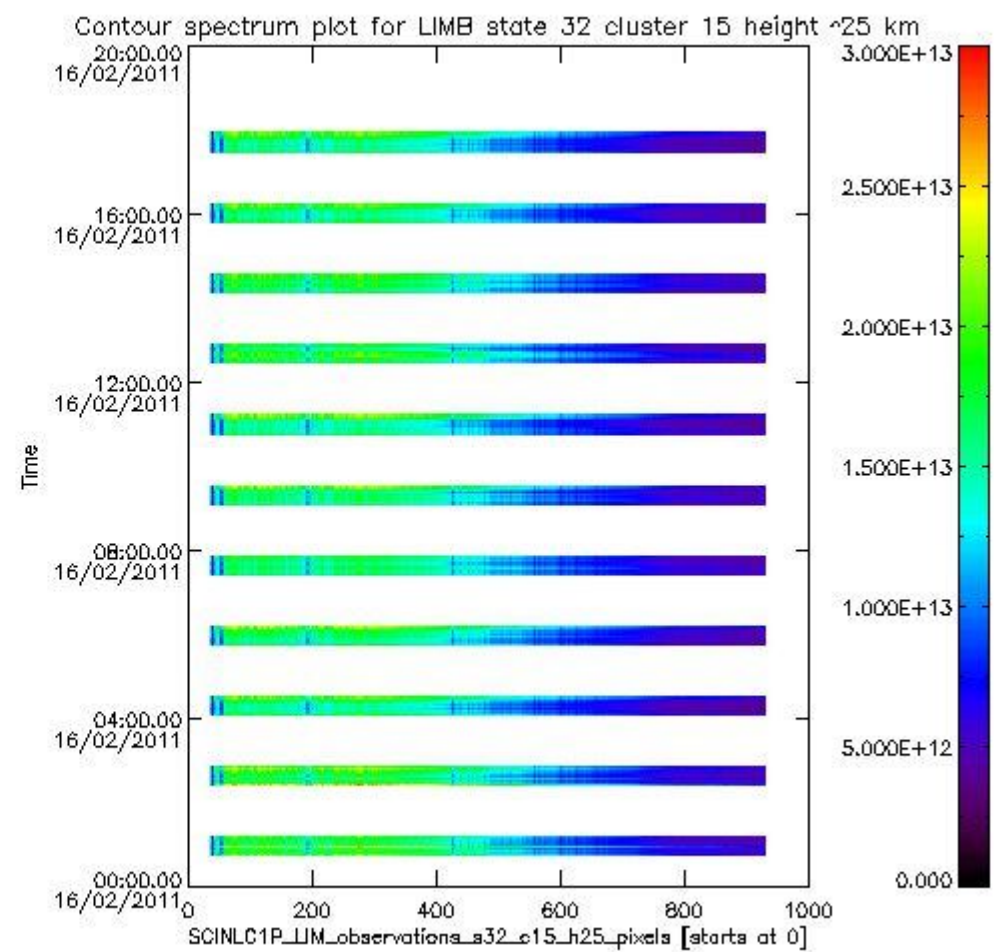
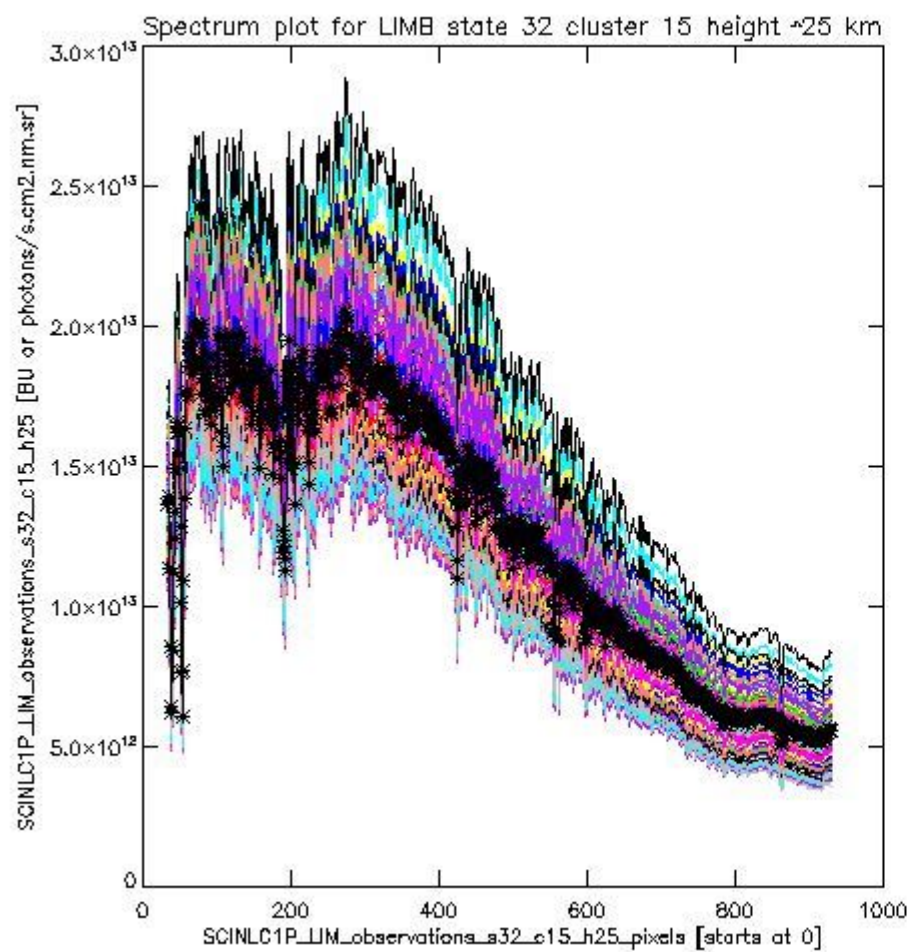
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110216_16.PNG



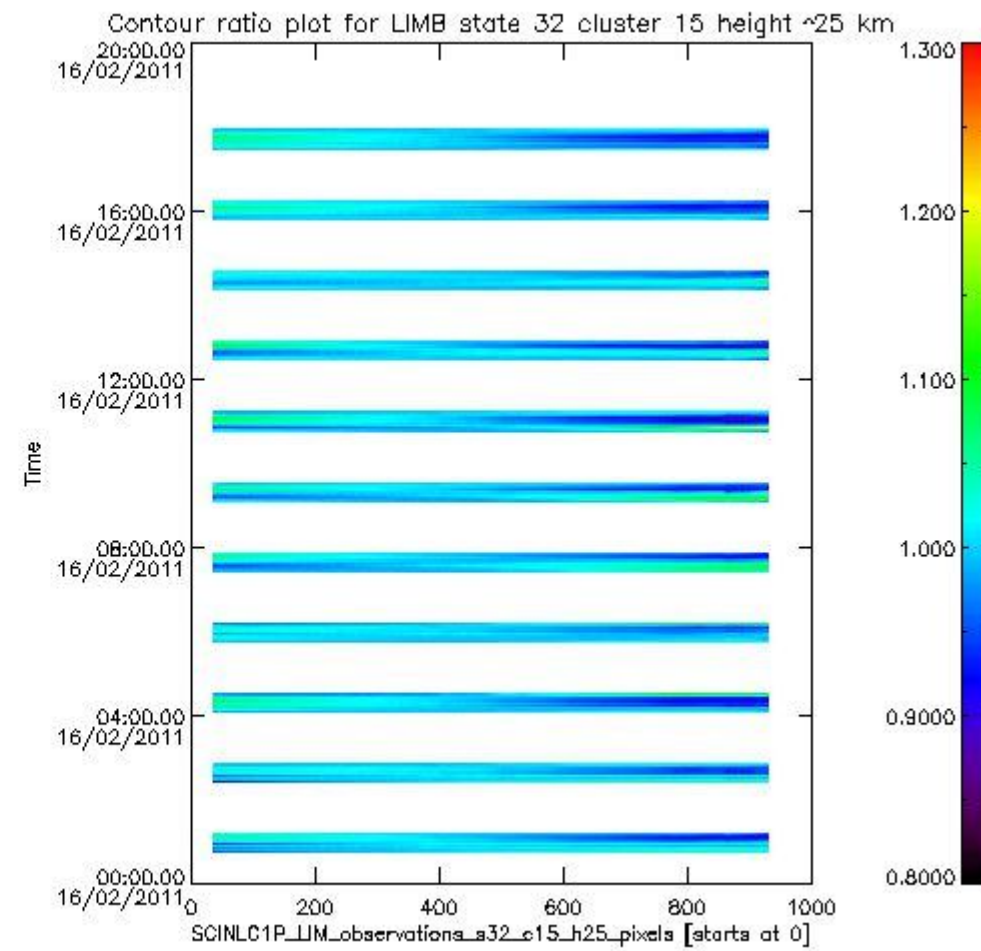
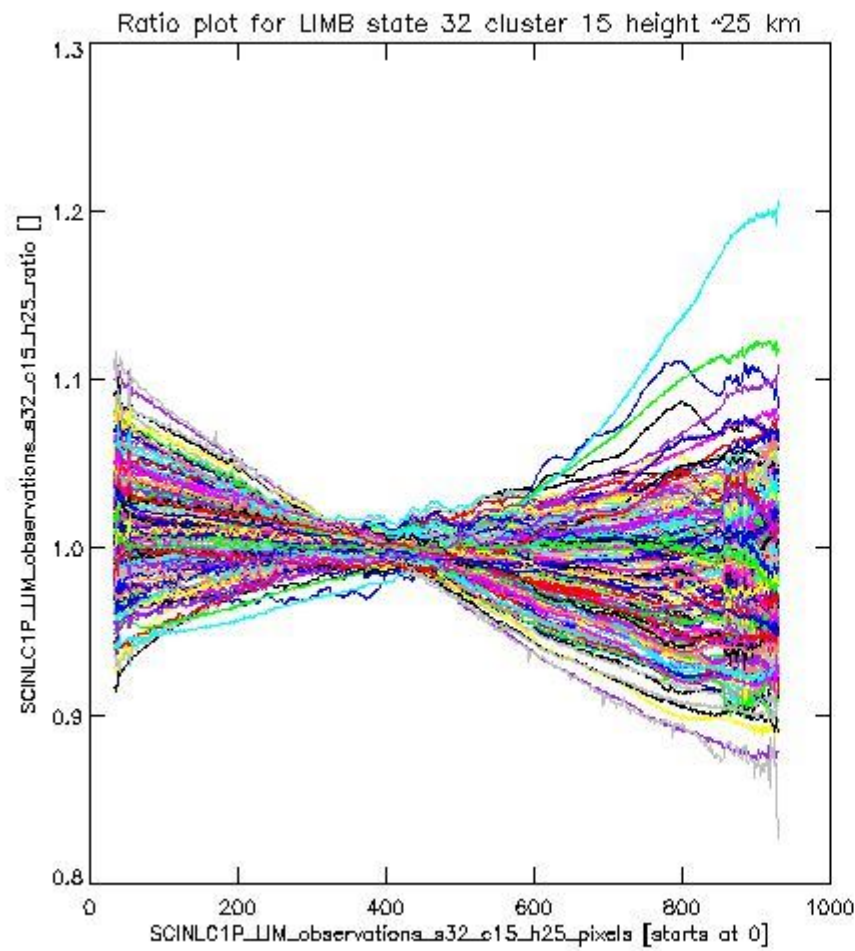
sciamachy_11b_source_packet_report_SCIA_7_04_U_20110216_17.PNG

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	16FEB2011 00:43:57.255
Start time of last sample	16FEB2011 17:53:38.685
Reference period start time	17JAN2011 00:46:10.827
Reference period stop time	15FEB2011 23:30:19.415
Channel number	3
First pixel number (starts at 0)	33
Last pixel number (starts at 0)	929



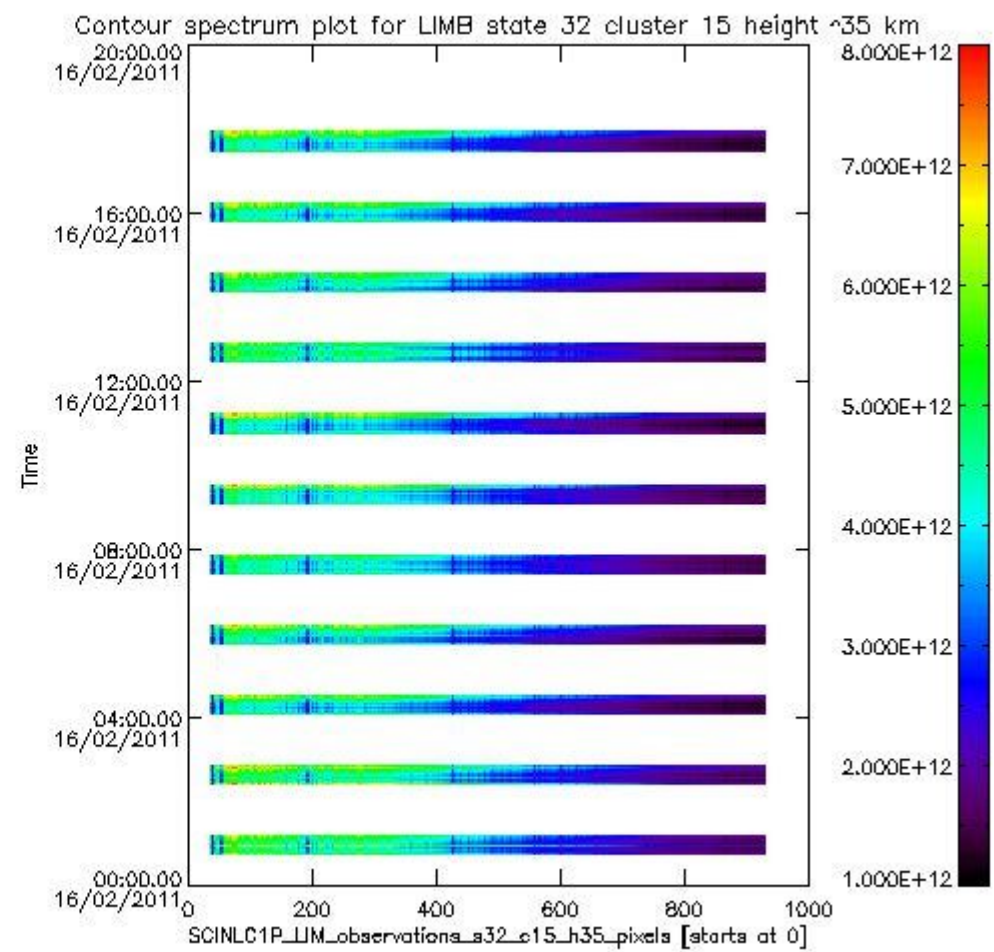
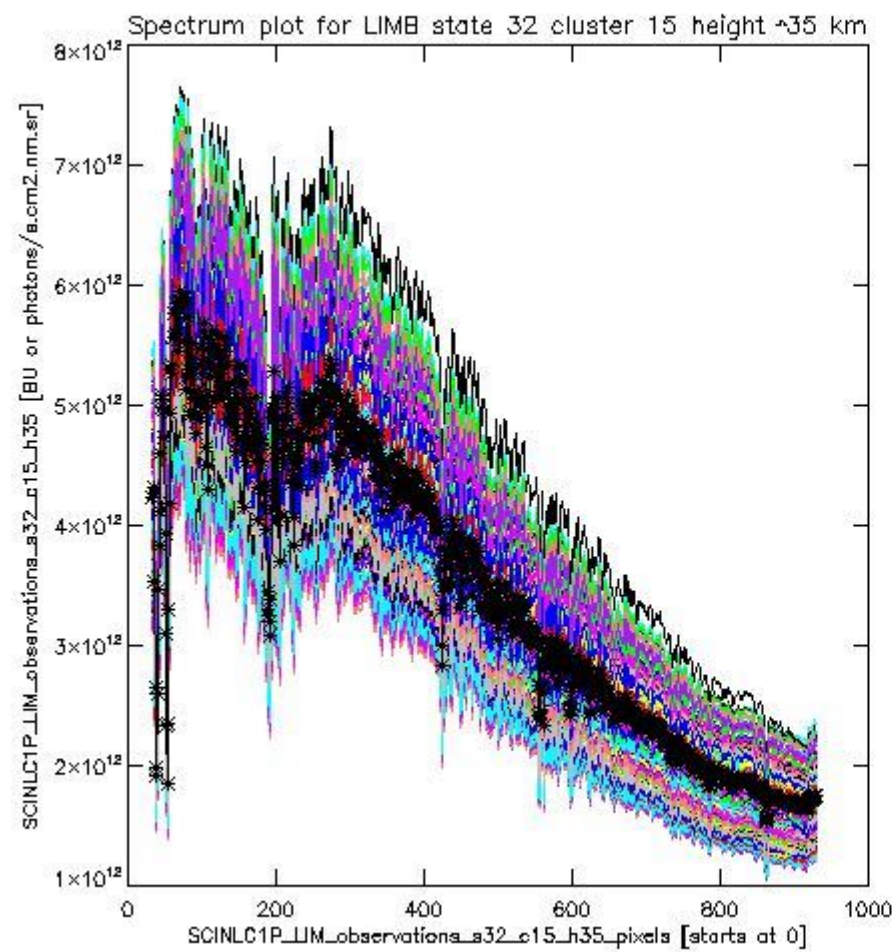
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110216_18.PNG

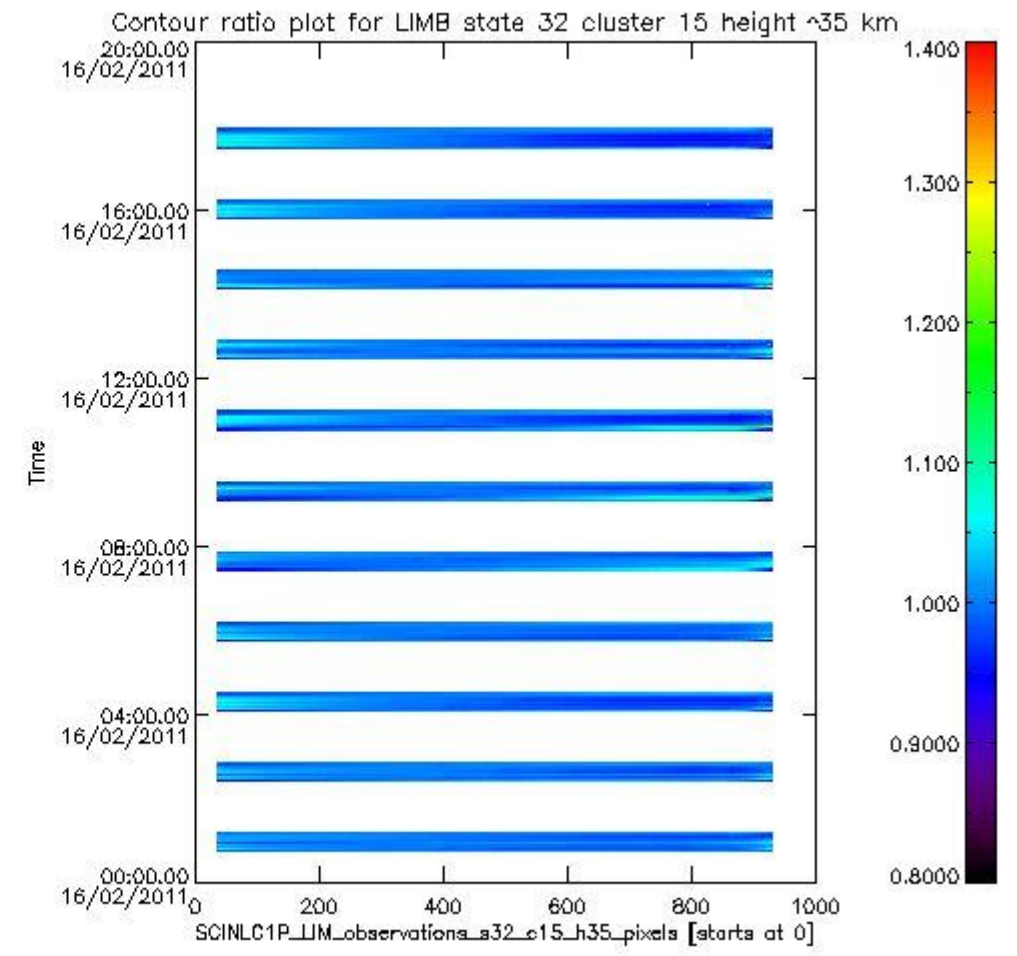
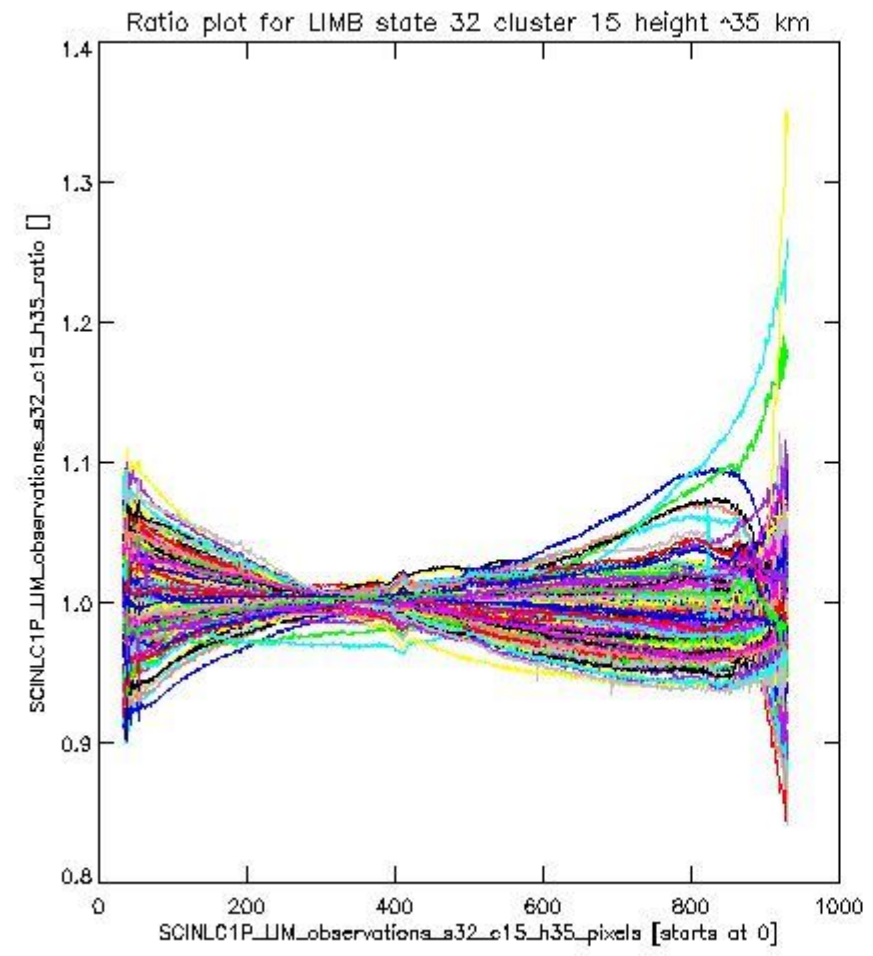


sciamachy_11b_source_packet_report_SCIA_7_04_U_20110216_19.PNG

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	16FEB2011 00:43:57.255
Start time of last sample	16FEB2011 17:53:38.685
Reference period start time	17JAN2011 00:46:10.827
Reference period stop time	15FEB2011 23:30:19.415
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_20110216_21.PNG

