

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	18MAR2011 06:55:36
Data source version	SCIA/7.04-U
Processing scope for products	07MAR2011 00:00:00 to 08MAR2011 00:00:00
Start time of first product within scope	06MAR2011 22:46:25
Stop time of last product within scope	08MAR2011 01:00:03
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	07MAR2011 00:58:41.973	07MAR2011 22:50:57.424
1	NADIR	07	09	N/A	07MAR2011 00:58:41.973	07MAR2011 22:50:57.424
2	NADIR	07	15	N/A	07MAR2011 00:58:41.973	07MAR2011 22:50:57.424
3	NADIR	07	24	N/A	07MAR2011 00:58:41.973	07MAR2011 22:50:57.424
4	NADIR	07	55	N/A	07MAR2011 00:58:41.973	07MAR2011 22:50:57.424
5	LIMB	32	09	~19 km	07MAR2011 00:45:31.336	07MAR2011 22:56:11.467
6	LIMB	32	09	~22 km	07MAR2011 00:45:31.336	07MAR2011 22:56:11.467
7	LIMB	32	09	~25 km	07MAR2011 00:45:31.336	07MAR2011 22:56:11.467
8	LIMB	32	15	~22 km	07MAR2011 00:45:31.336	07MAR2011 22:56:11.467
9	LIMB	32	15	~25 km	07MAR2011 00:45:31.336	07MAR2011 22:56:11.467
10	LIMB	32	15	~35 km	07MAR2011 00:45:31.336	07MAR2011 22:56:11.467

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	#noproduct	#cpl_drk	#incpl_drk	Decont
0	SCI_NLC_1CUDPA20110306_223514_000059653100_00145_47142_5194.N1	06MAR2011 22:46:25	06MAR2011 23:56:54	0	36	30	0	0	1	0	0	
1	SCI_NLC_1CUDPA20110307_001443_000060533100_00146_47143_5196.N1	07MAR2011 00:26:39	07MAR2011 01:36:54	0	35	31	0	0	1	0	0	
2	SCI_NLC_1CUDPA20110307_015540_000059653100_00147_47144_5199.N1	07MAR2011 02:06:52	07MAR2011 03:17:21	0	36	30	0	0	1	0	0	
3	SCI_NLC_1CUDPA20110307_033510_000060543100_00148_47145_5201.N1	07MAR2011 03:47:06	07MAR2011 04:57:21	0	35	31	0	0	1	0	0	
4	SCI_NLC_1CUDPA20110307_051607_000059653100_00149_47146_5202.N1	07MAR2011 05:27:20	07MAR2011 06:37:49	0	36	30	0	0	1	0	0	
5	SCI_NLC_1CUDPA20110307_065537_000060533100_00150_47147_5207.N1	07MAR2011 07:07:33	07MAR2011 08:17:48	0	35	31	0	0	1	0	0	

6	SCI_NLC_1CUDPA20110307_083634_000059653100_00151_47148_5208.N1	07MAR2011 08:47:47	07MAR2011 09:58:16	0	36	30	0	0	1	0	0	
7	SCI_NLC_1CUDPA20110307_101604_000060533100_00152_47149_5204.N1	07MAR2011 10:28:00	07MAR2011 11:38:15	0	35	31	0	0	1	0	0	
8	SCI_NLC_1CUDPA20110307_115701_000059653100_00153_47150_5212.N1	07MAR2011 12:08:14	07MAR2011 13:18:43	0	36	30	0	0	1	0	0	
9	SCI_NLC_1CUDPA20110307_133630_000060533100_00154_47151_5217.N1	07MAR2011 13:48:27	07MAR2011 14:58:42	0	35	31	0	0	1	0	0	
10	SCI_NLC_1CUDPA20110307_151728_000059653100_00155_47152_5218.N1	07MAR2011 15:28:41	07MAR2011 16:39:10	0	36	30	0	0	1	0	0	
11	SCI_NLC_1CUDPA20110307_165657_000060543100_00156_47153_5221.N1	07MAR2011 17:08:54	07MAR2011 18:19:28	0	35	31	0	1	1	0	0	
12	SCI_NLC_1CUDPA20110307_183755_000059653100_00157_47154_5222.N1	07MAR2011 18:49:08	07MAR2011 19:59:56	0	36	30	0	1	1	0	0	
13	SCI_NLC_1CUDPA20110307_201724_000060533100_00158_47155_5224.N1	07MAR2011 20:29:21	07MAR2011 21:39:36	0	35	31	0	0	1	0	0	
14	SCI_NLC_1CUDPA20110307_215822_000059653100_00159_47156_5228.N1	07MAR2011 22:09:35	07MAR2011 23:20:04	0	36	30	0	0	1	0	0	
15	SCI_NLC_1CUDPA20110307_233751_000060533100_00160_47157_5229.N1	07MAR2011 23:49:48	08MAR2011 01:00:03	0	35	31	0	0	1	0	0	

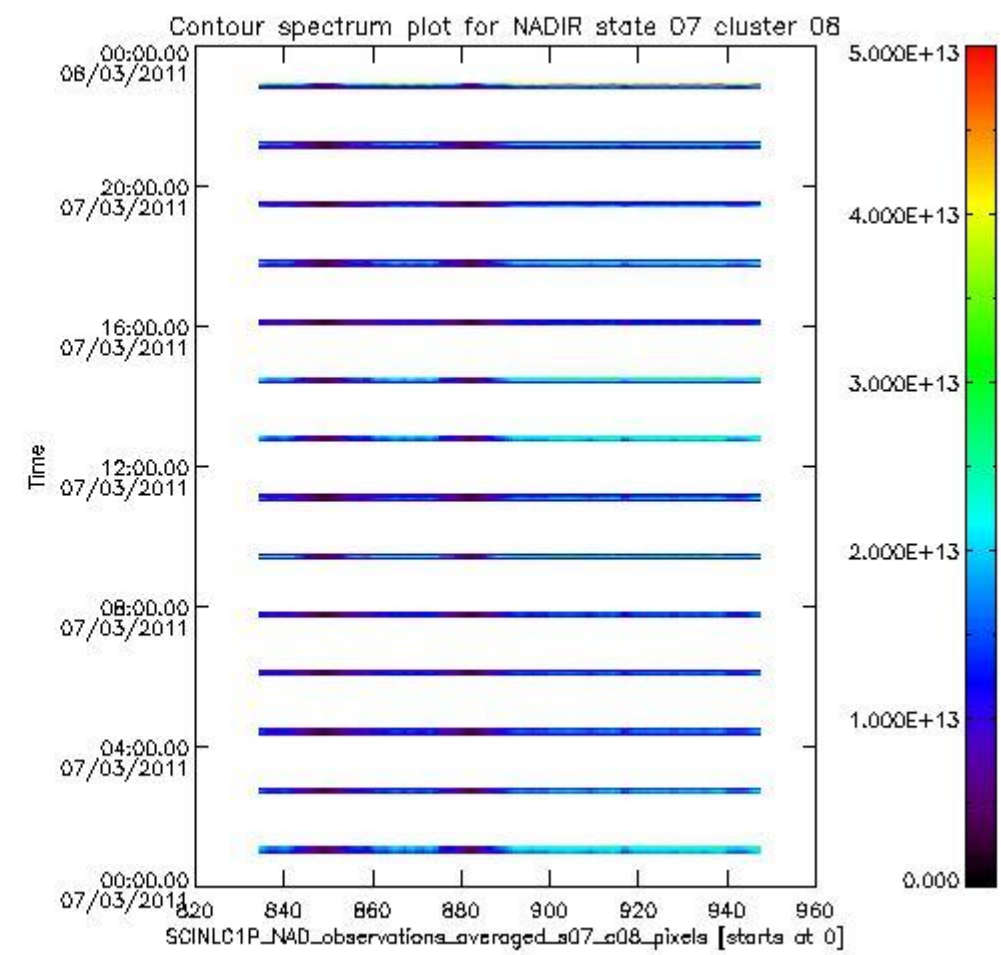
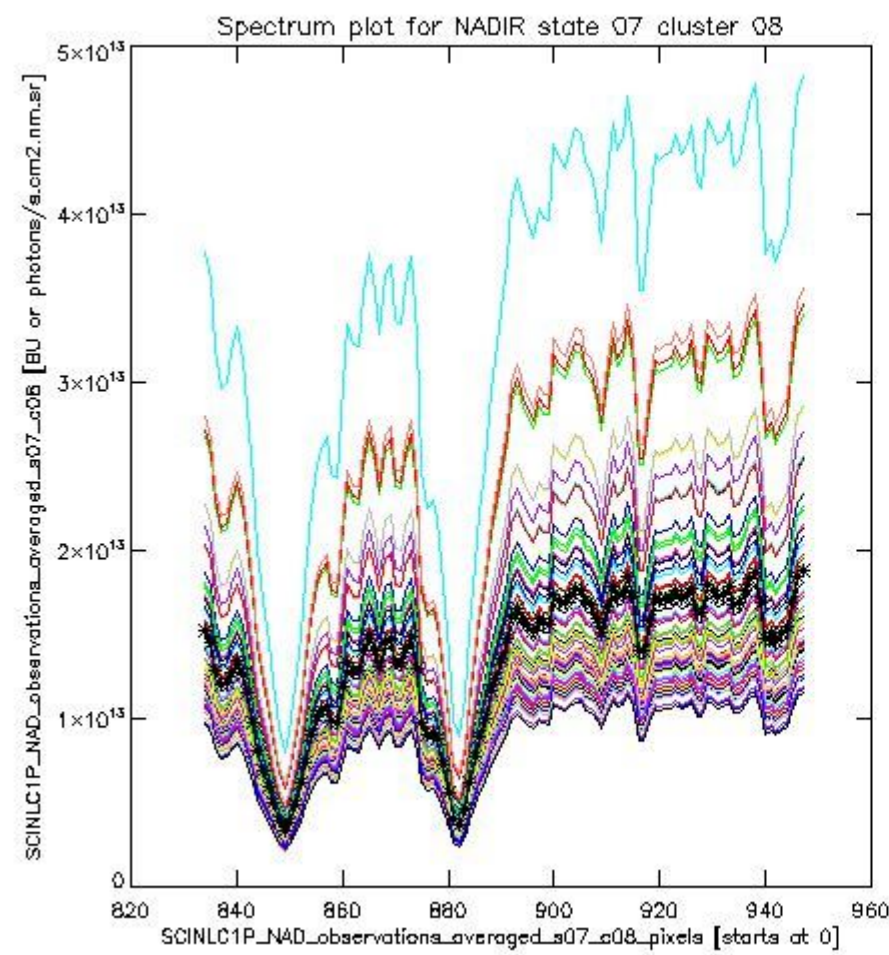
1.2 Source packet monitoring

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:

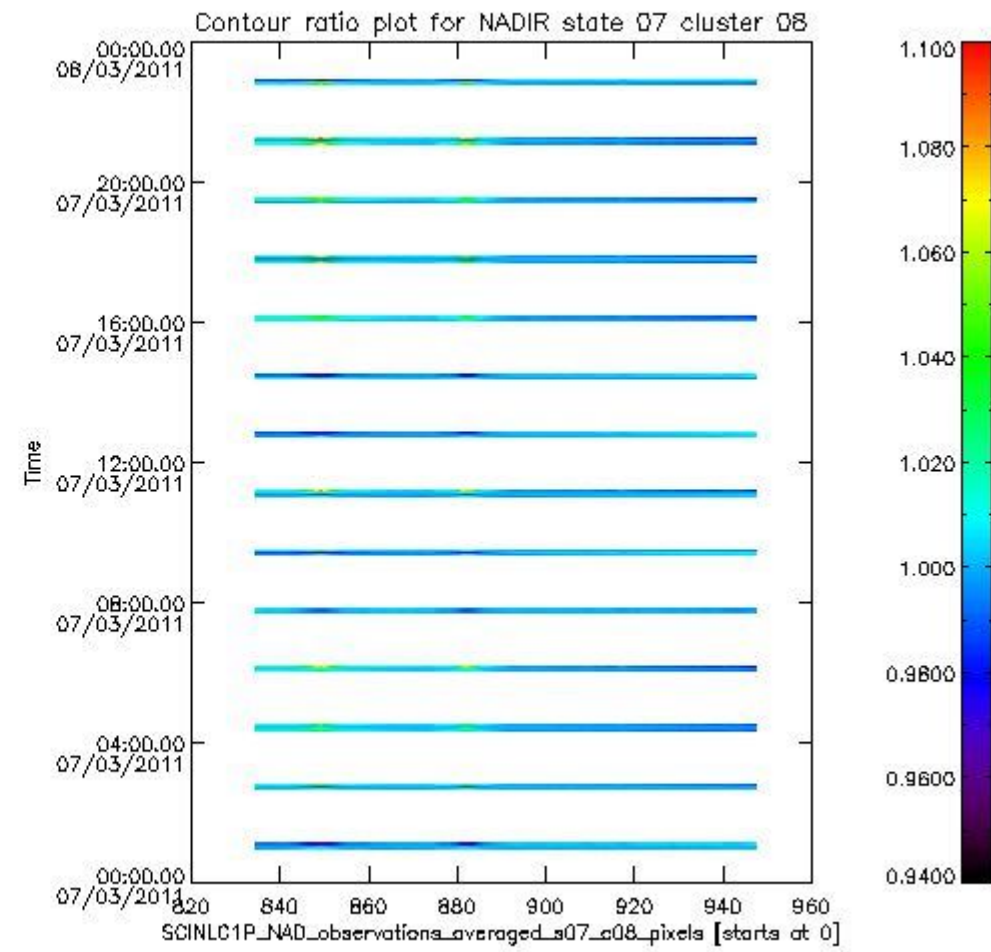
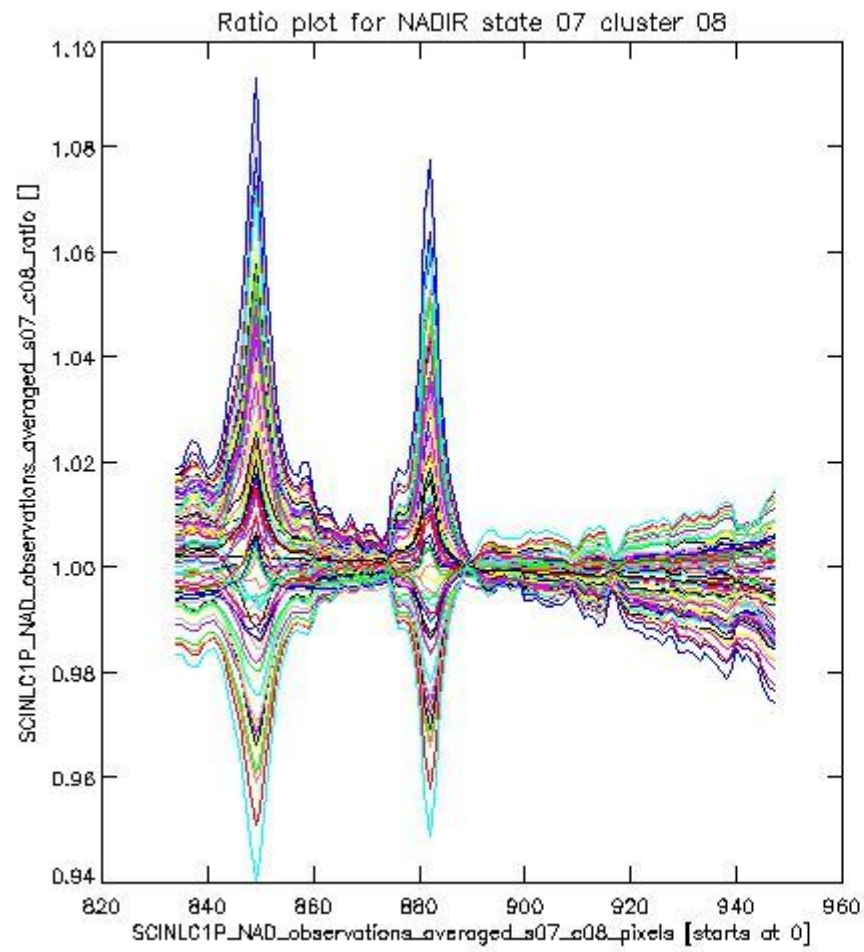
- A plot that shows all calibrated averaged spectra vs. pixel number as 2D-profiles. Each line is an average spectrum for a single state occurrence. For Limb modes, the average is performed on spectra recorded at a specific height. The reference spectrum that is used for comparison is also shown as a 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	07MAR2011 00:58:41.973
Start time of last sample	07MAR2011 22:50:57.424
Reference period start time	05FEB2011 01:01:25.892
Reference period stop time	06MAR2011 23:27:48.027
Channel number	2
First pixel number (starts at 0)	834
Last pixel number (starts at 0)	947



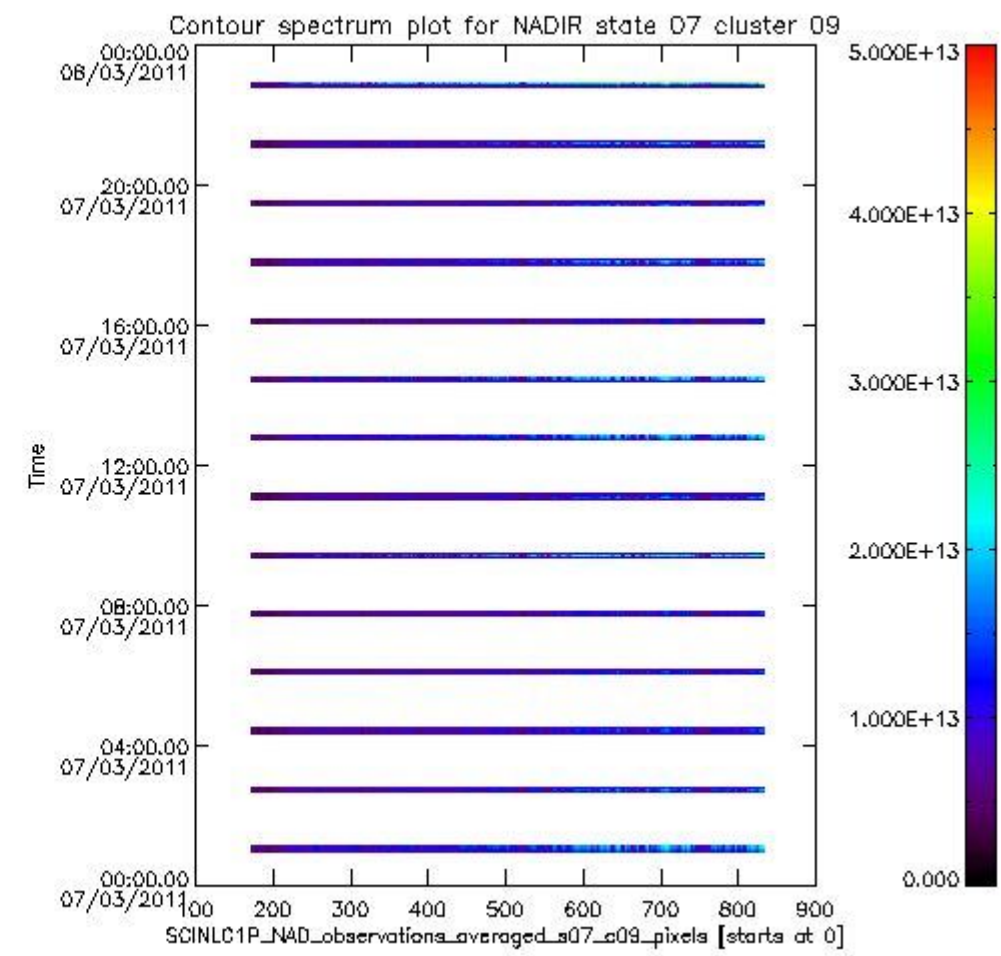
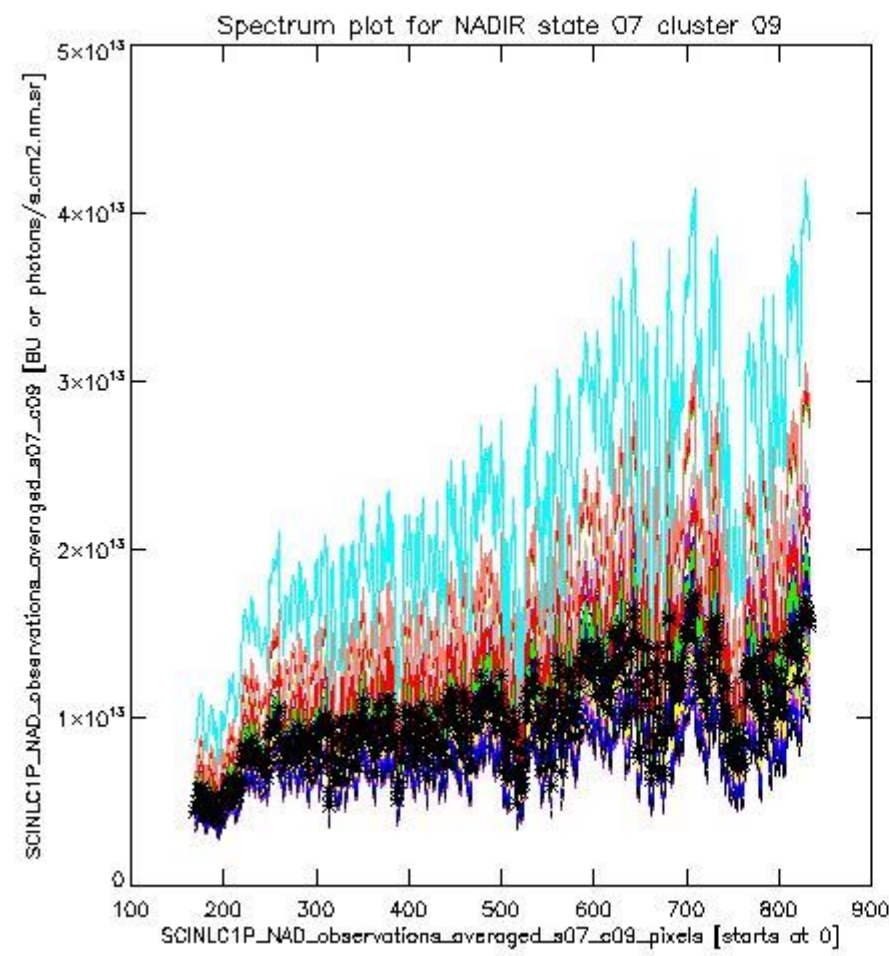
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110307_0.PNG



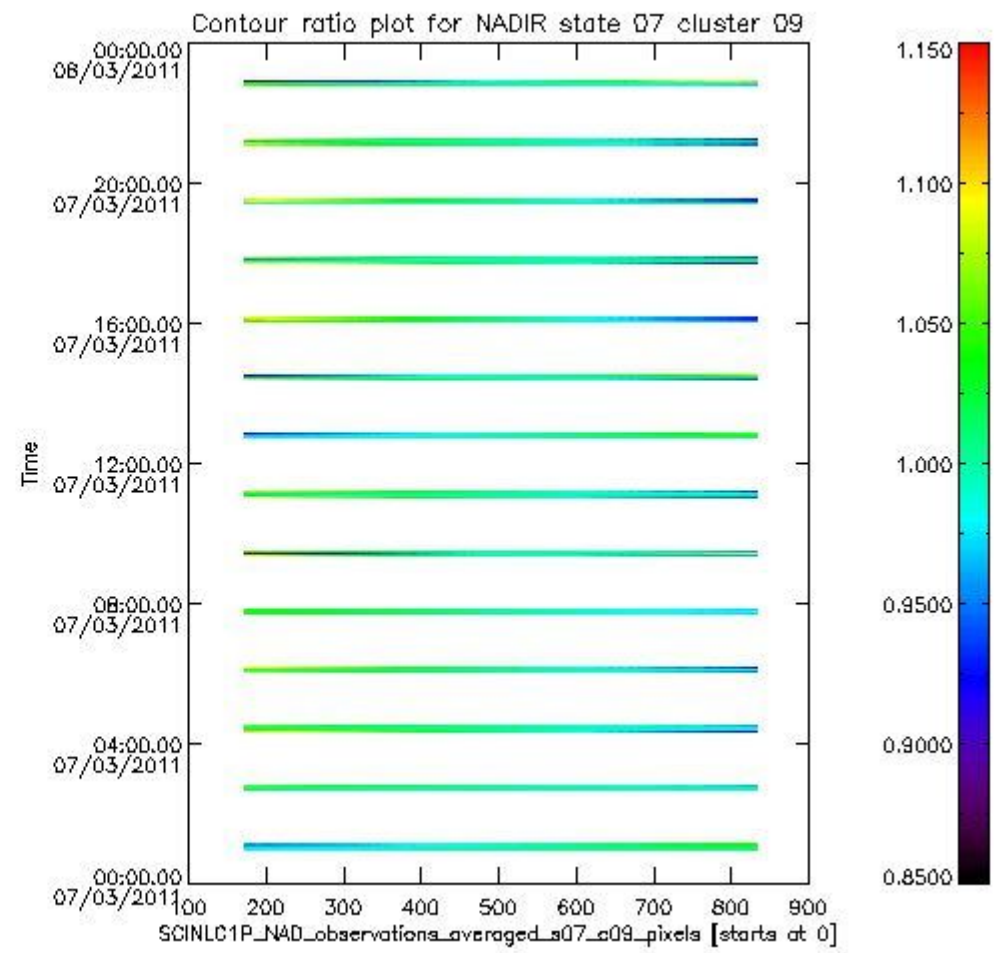
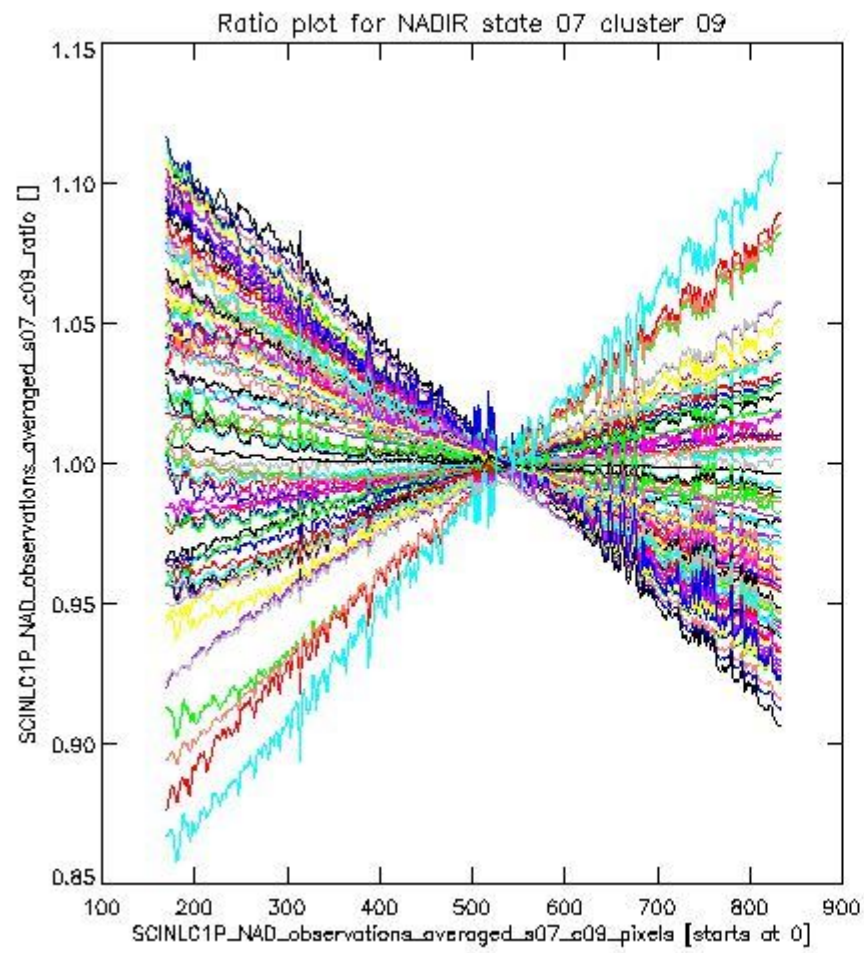
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110307_1.PNG

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	07MAR2011 00:58:41.973
Start time of last sample	07MAR2011 22:50:57.424
Reference period start time	05FEB2011 01:01:25.892
Reference period stop time	06MAR2011 23:27:48.027
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	833



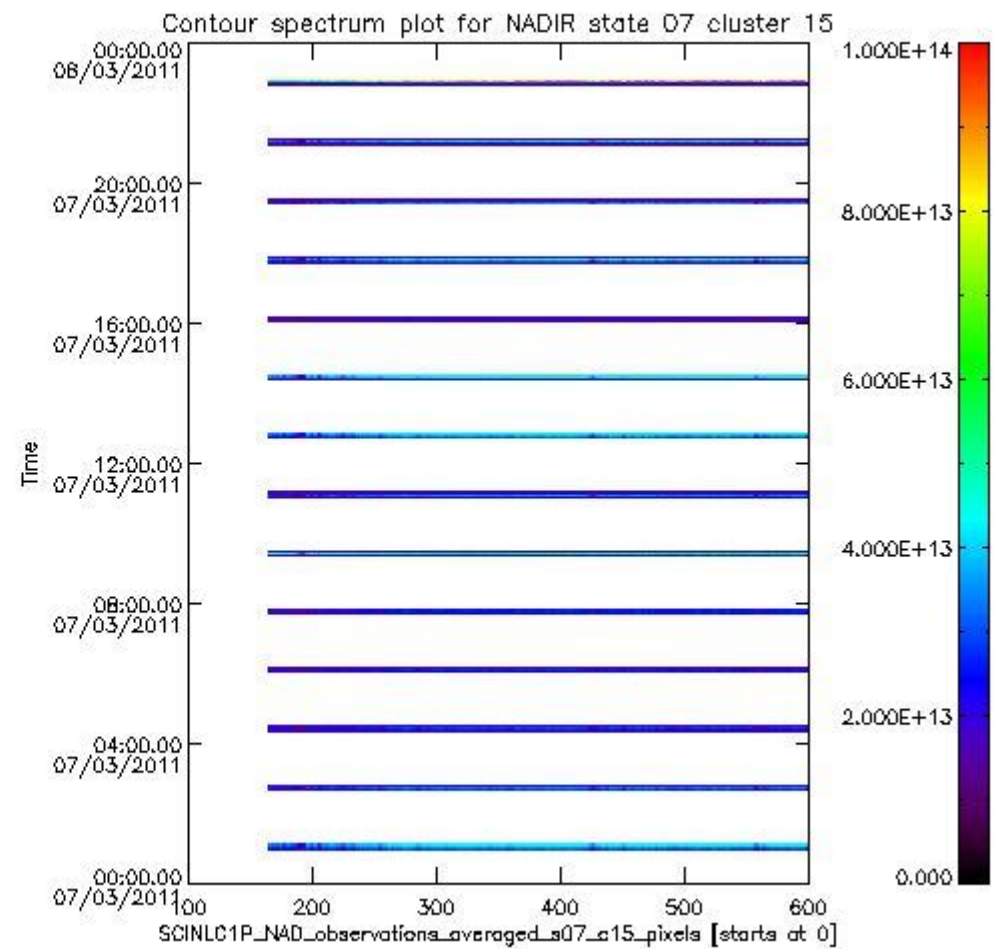
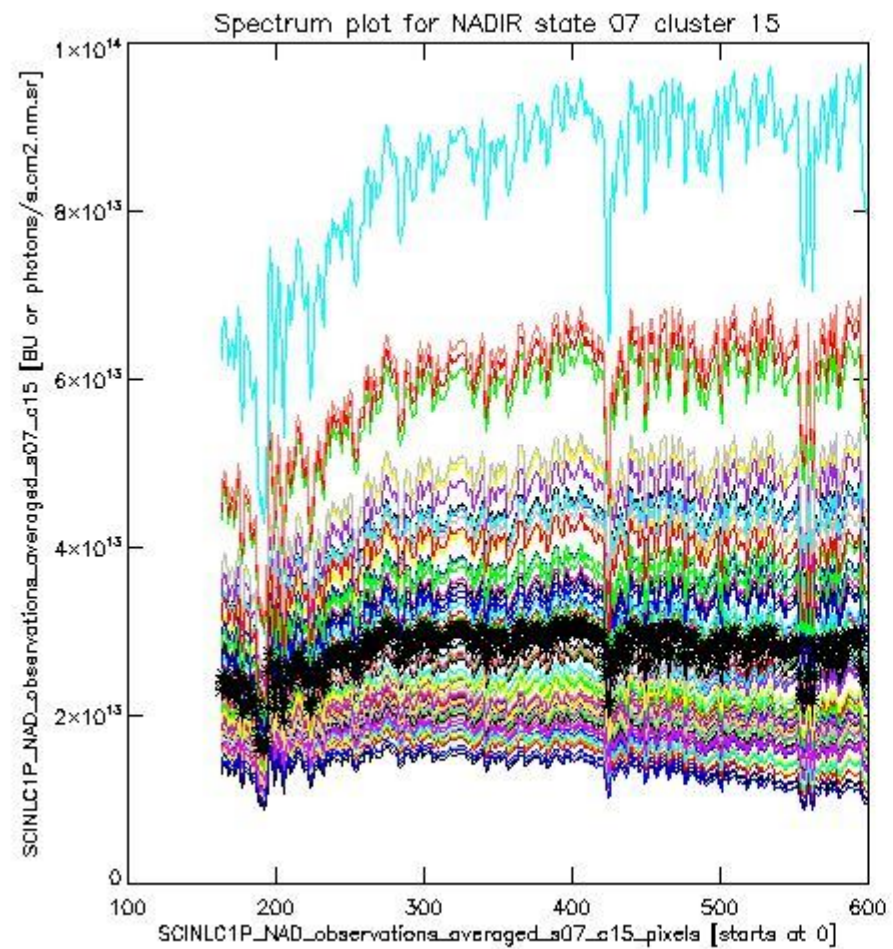
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110307_2.PNG



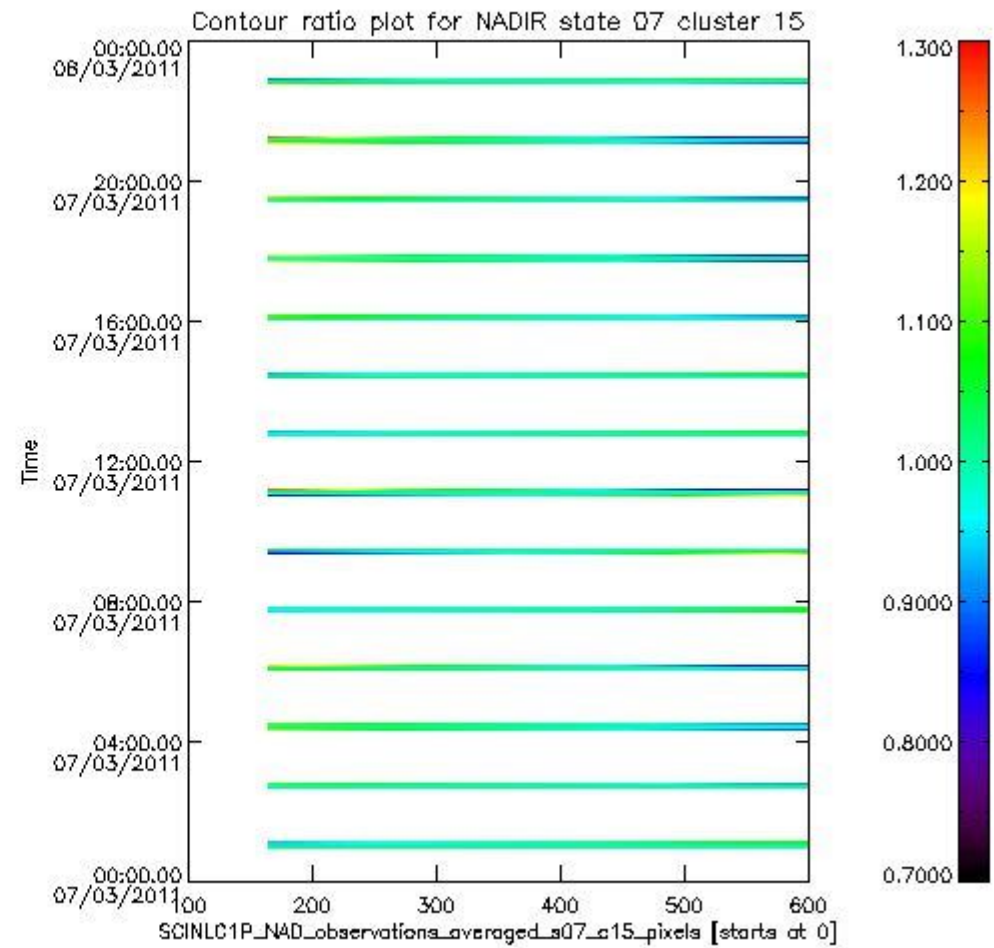
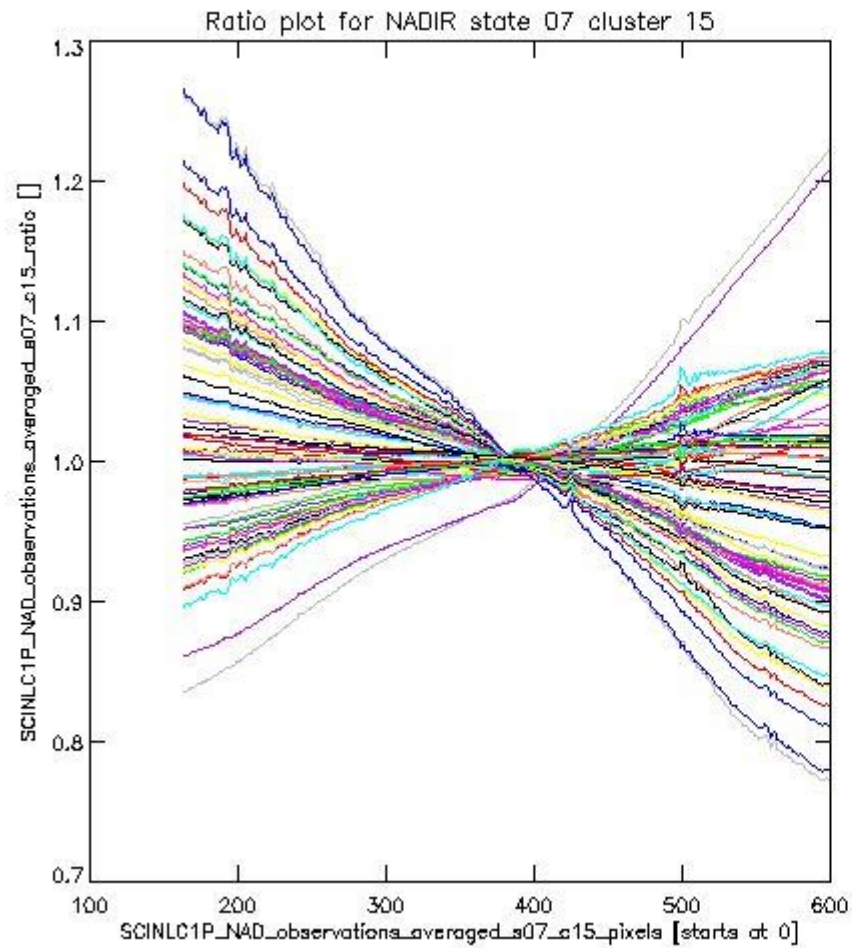
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110307_3.PNG

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	07MAR2011 00:58:41.973
Start time of last sample	07MAR2011 22:50:57.424
Reference period start time	05FEB2011 01:01:25.892
Reference period stop time	06MAR2011 23:27:48.027
Channel number	3
First pixel number (starts at 0)	163
Last pixel number (starts at 0)	598



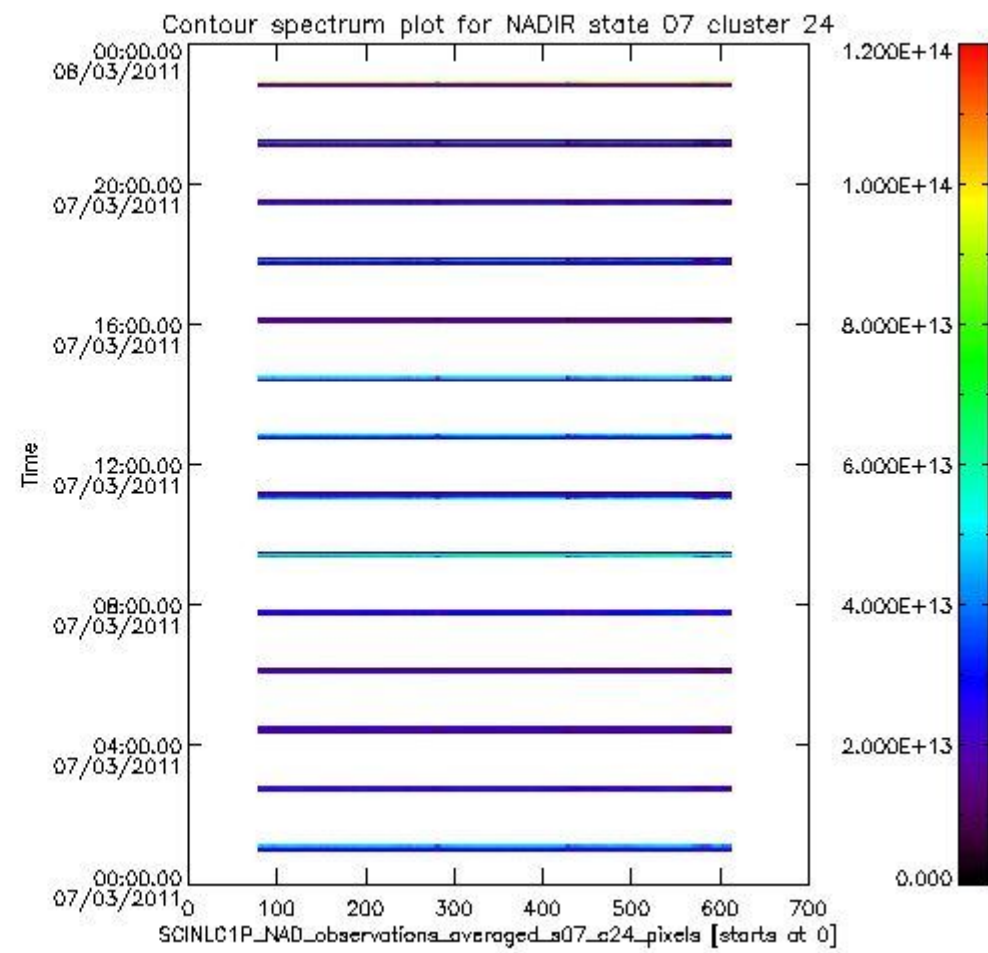
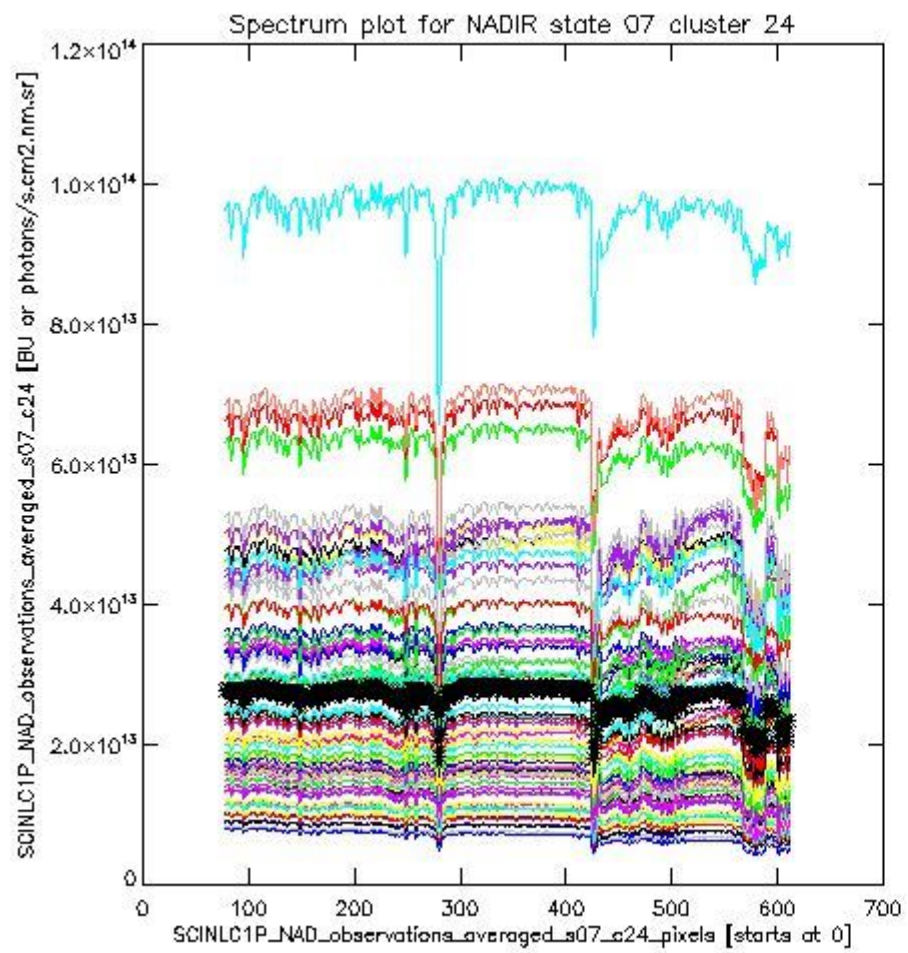
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110307_4.PNG



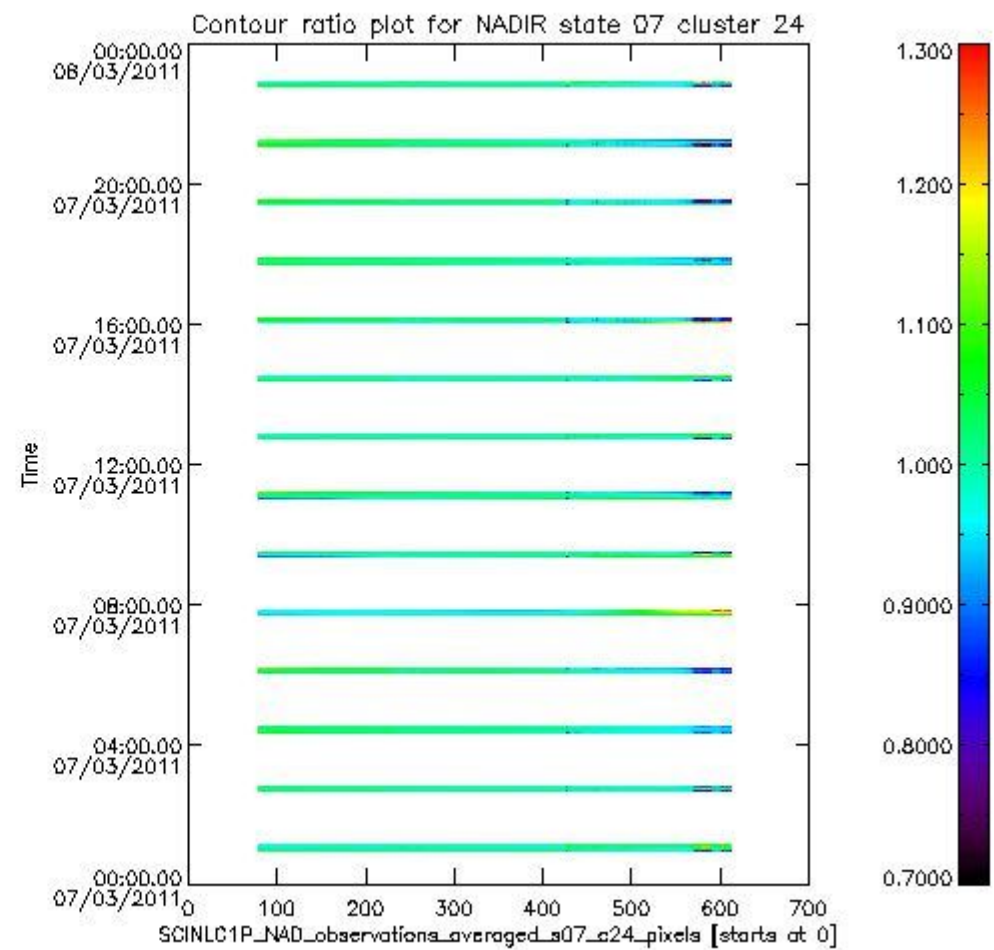
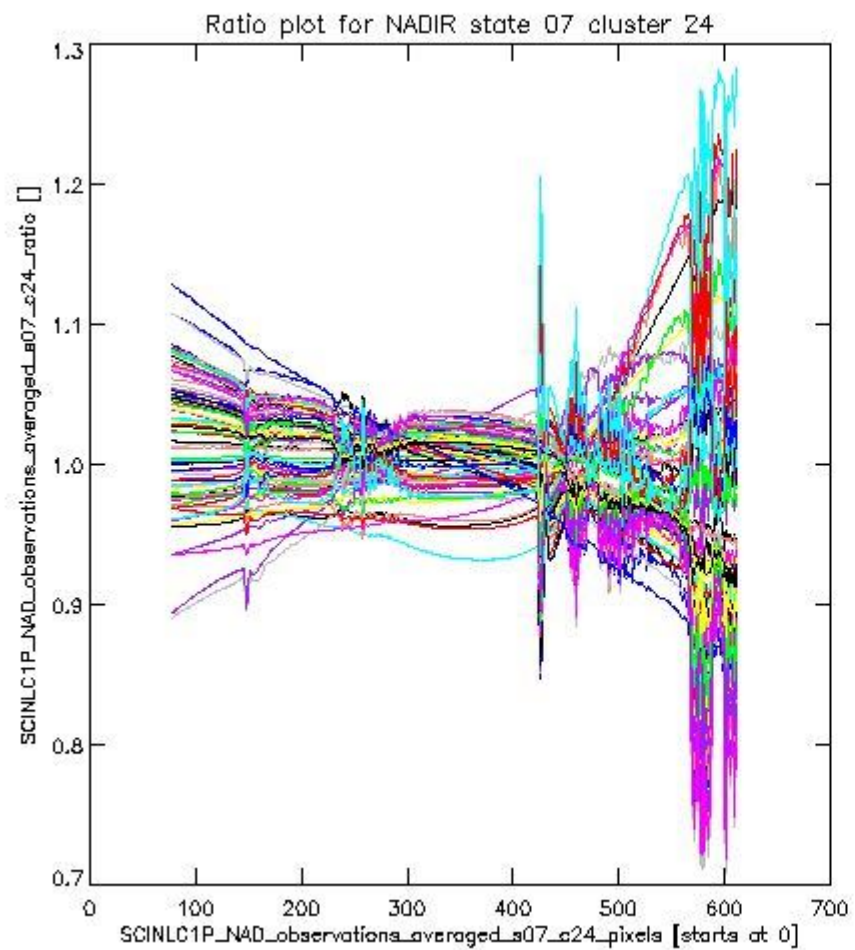
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110307_5.PNG

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	07MAR2011 00:58:41.973
Start time of last sample	07MAR2011 22:50:57.424
Reference period start time	05FEB2011 01:01:25.892
Reference period stop time	06MAR2011 23:27:48.027
Channel number	4
First pixel number (starts at 0)	78
Last pixel number (starts at 0)	612



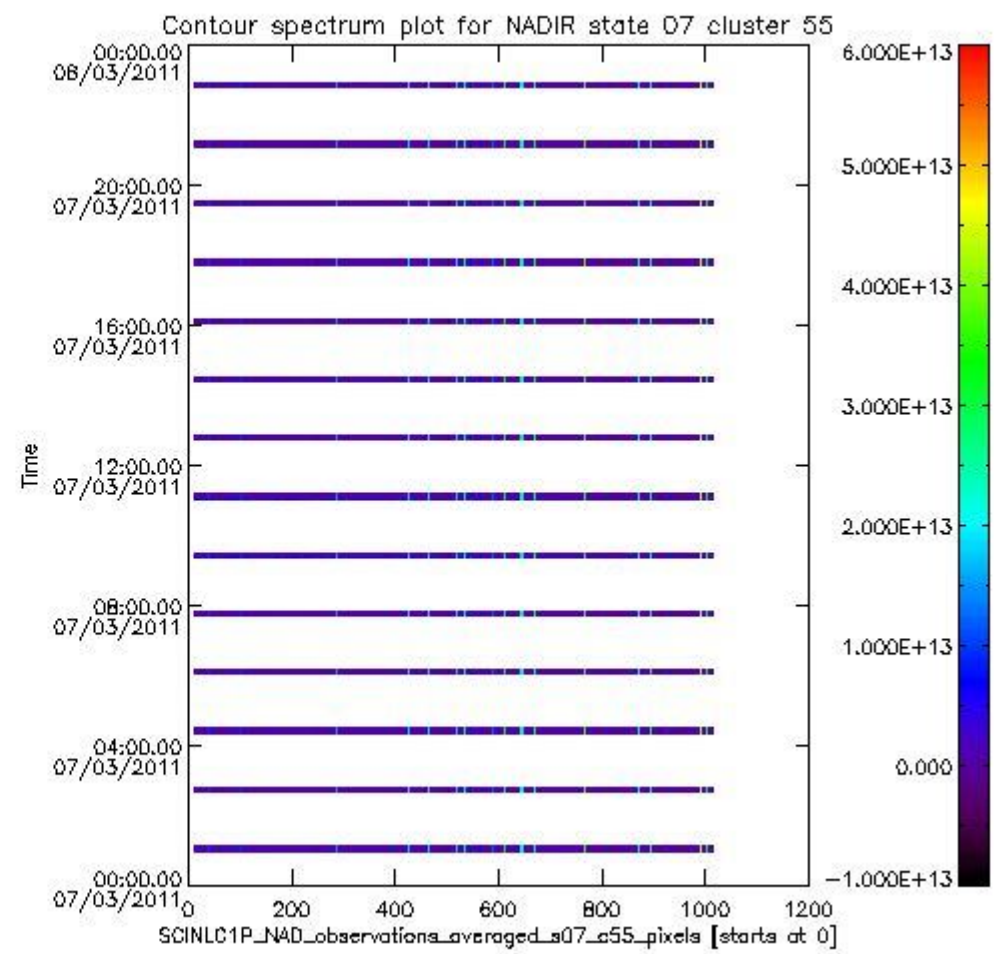
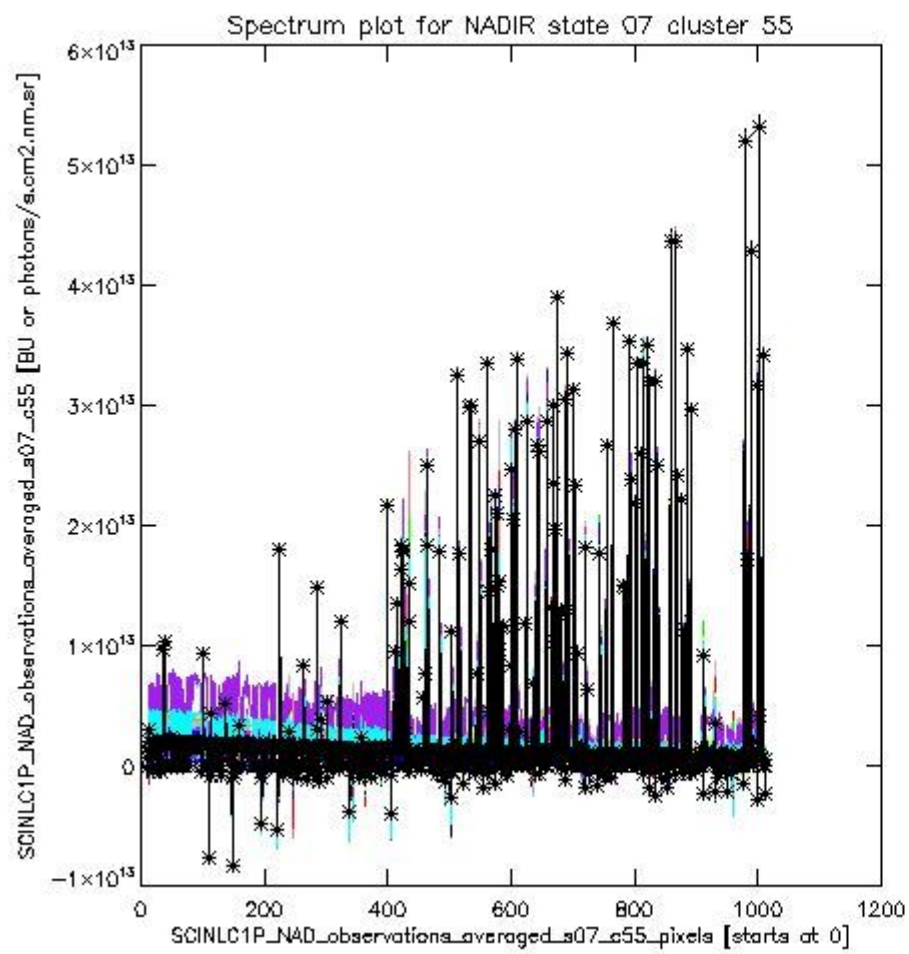
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110307_6.PNG



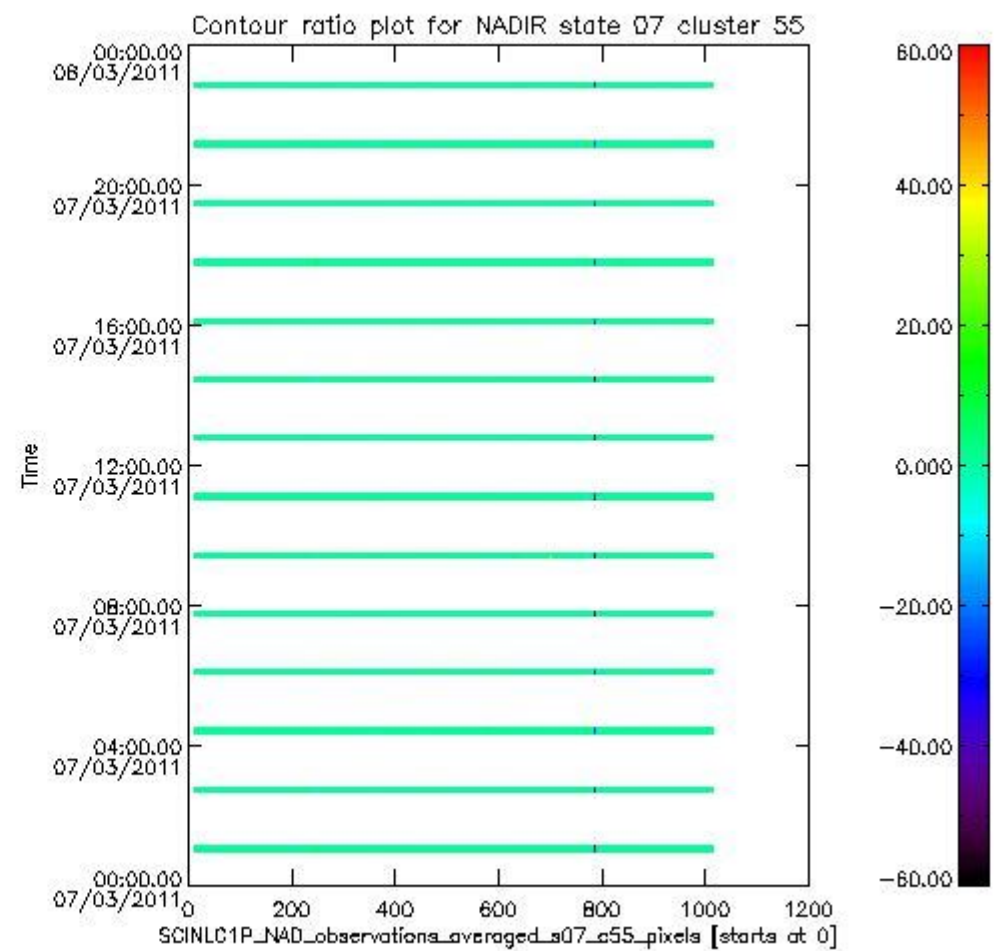
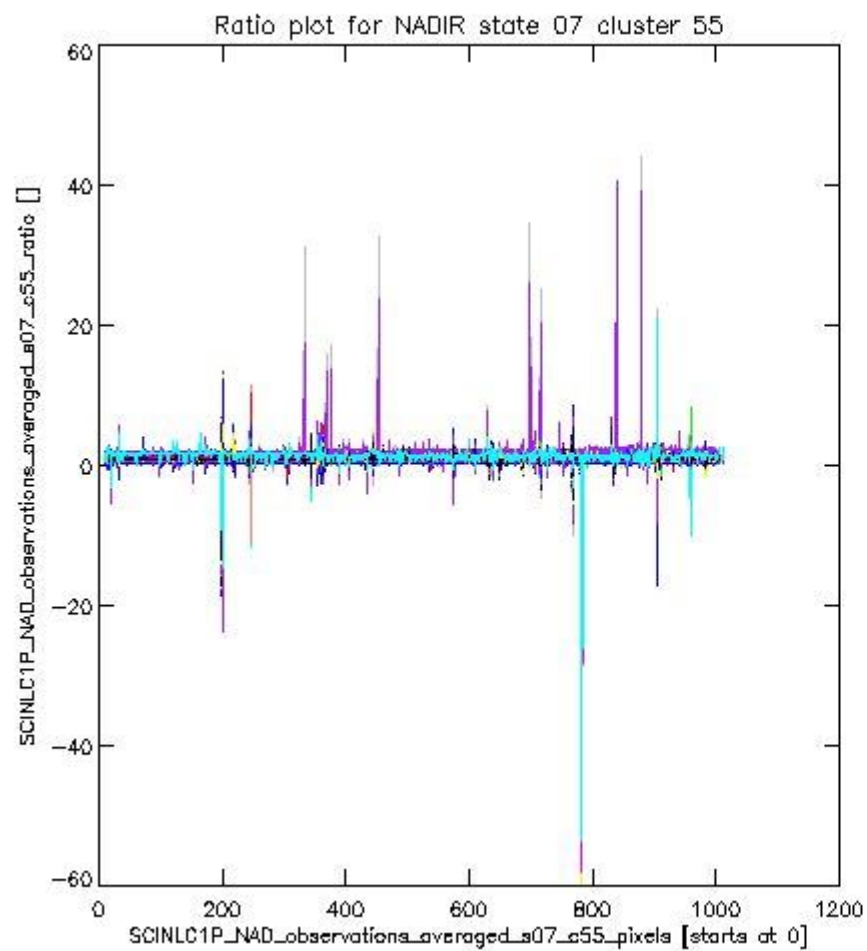
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110307_7.PNG

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	07MAR2011 00:58:41.973
Start time of last sample	07MAR2011 22:50:57.424
Reference period start time	05FEB2011 01:01:25.892
Reference period stop time	06MAR2011 23:27:48.027
Channel number	8
First pixel number (starts at 0)	10
Last pixel number (starts at 0)	1013



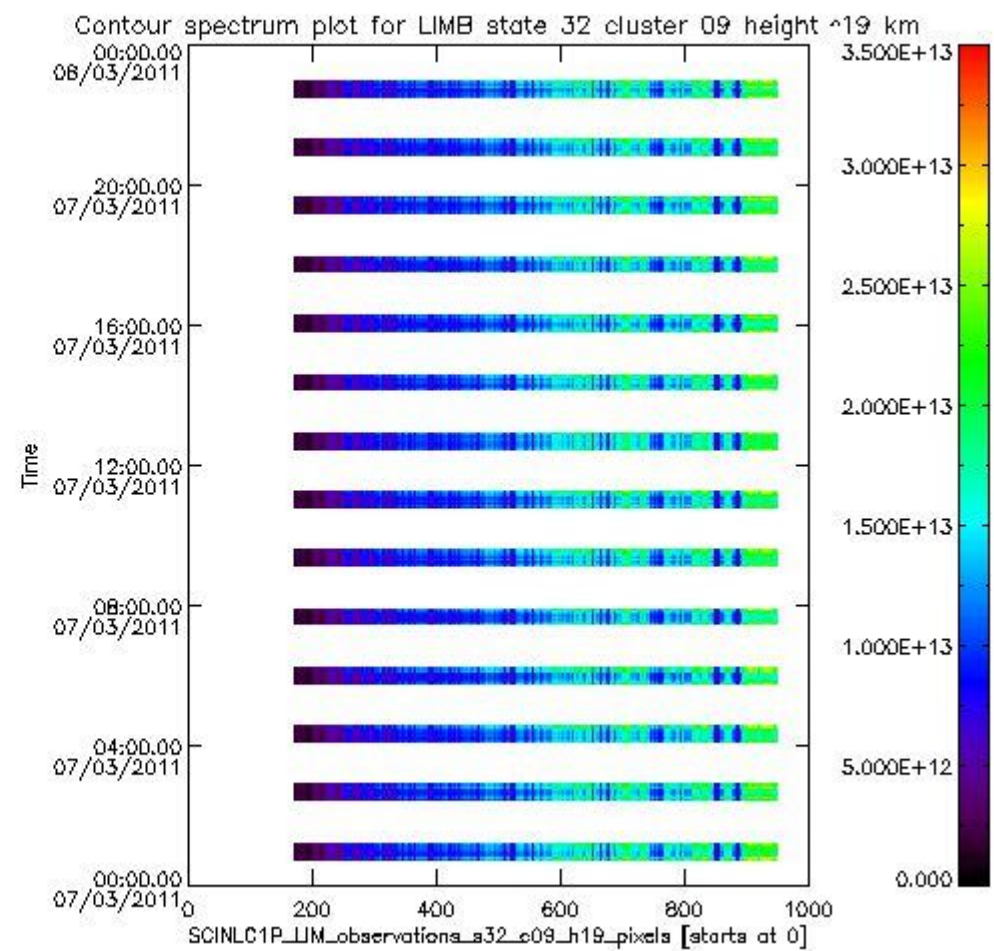
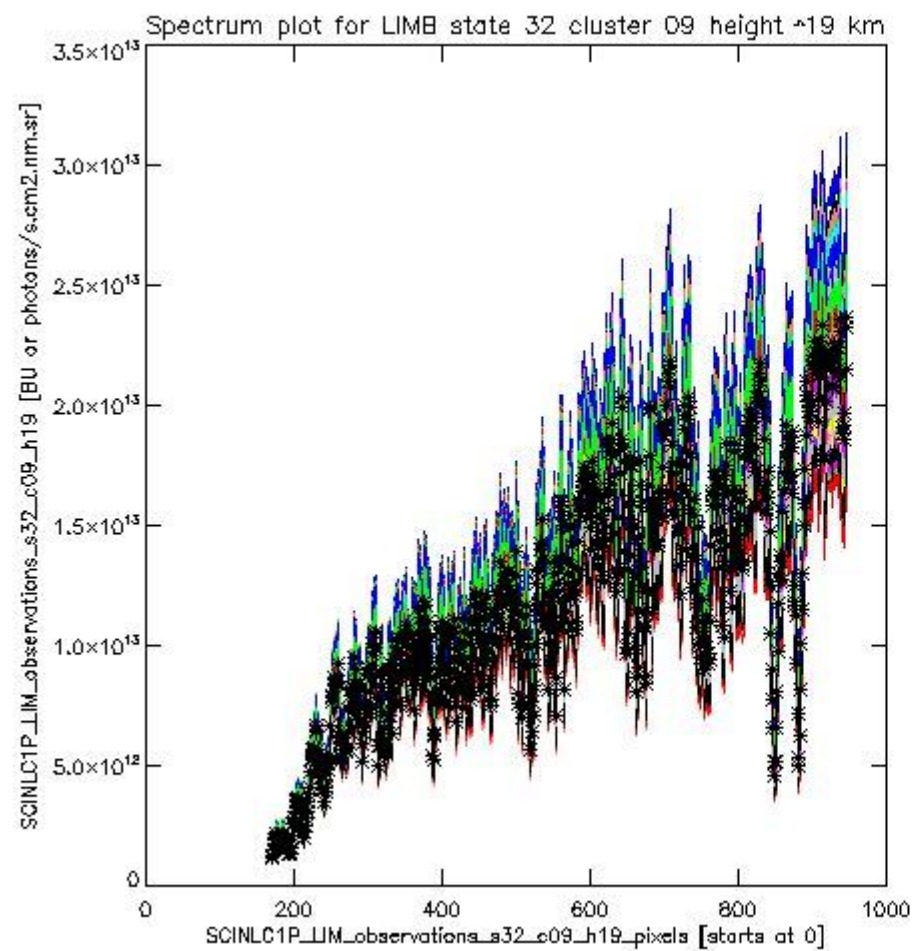
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110307_8.PNG



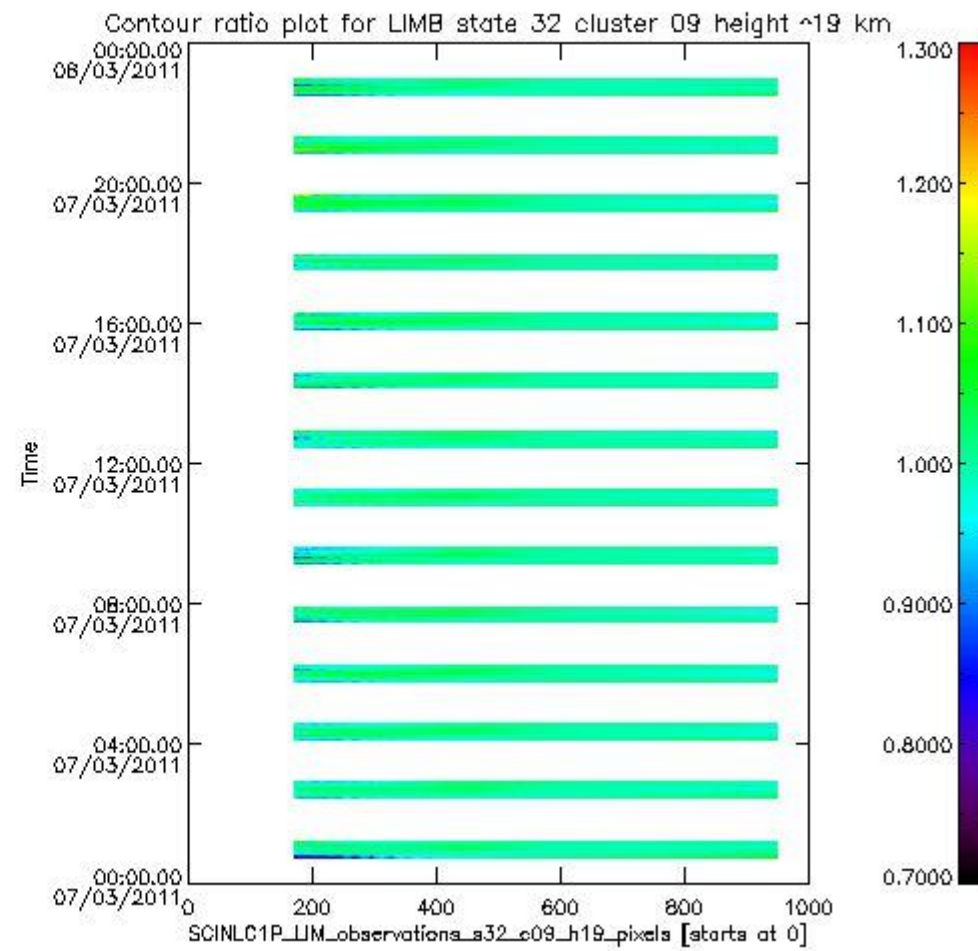
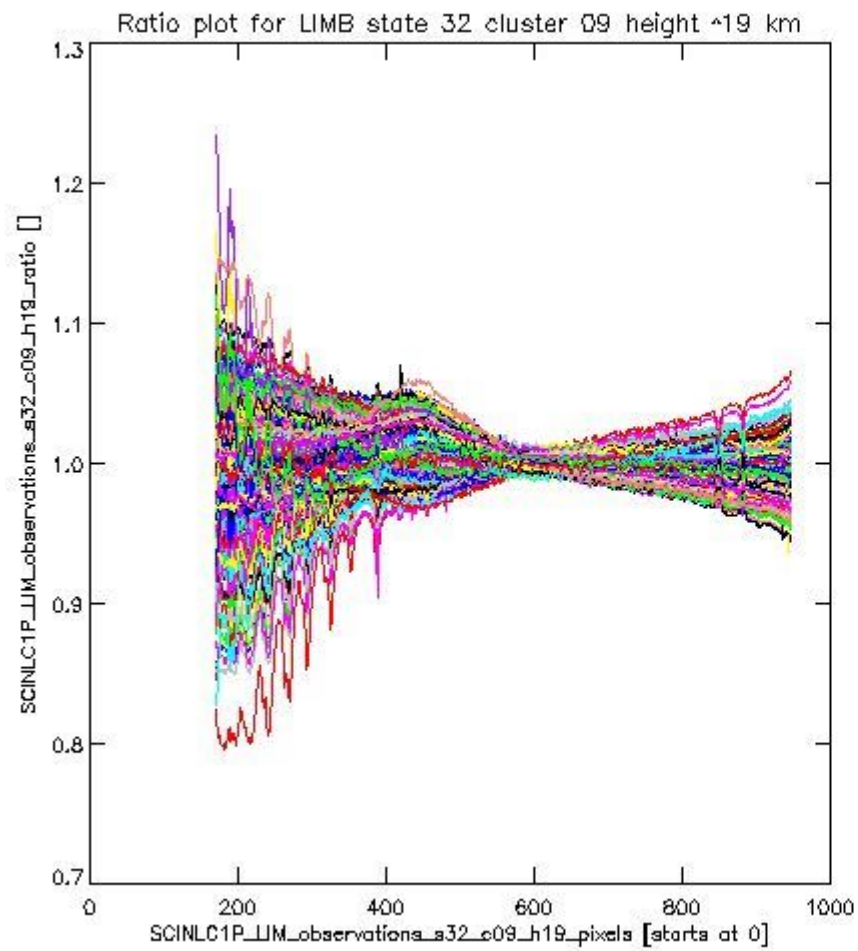
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110307_9.PNG

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	07MAR2011 00:45:31.336
Start time of last sample	07MAR2011 22:56:11.467
Reference period start time	05FEB2011 00:48:15.255
Reference period stop time	06MAR2011 23:33:02.070
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	947



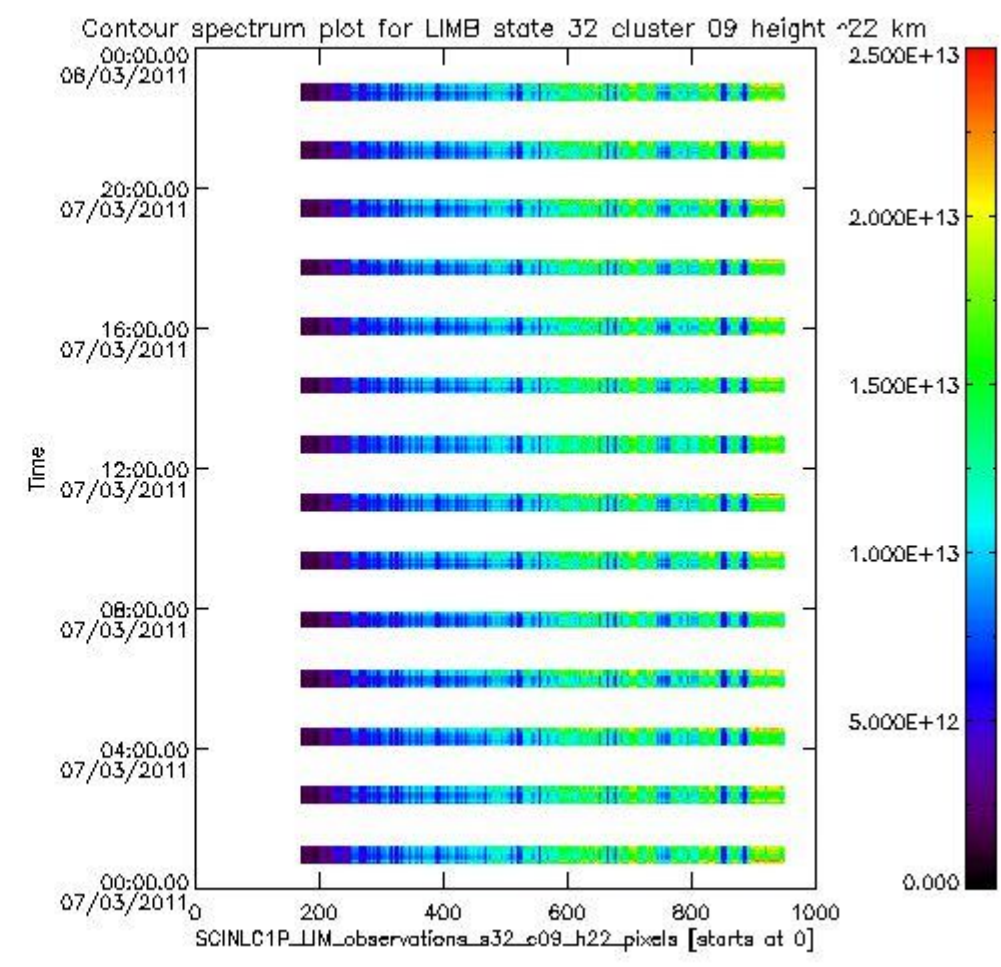
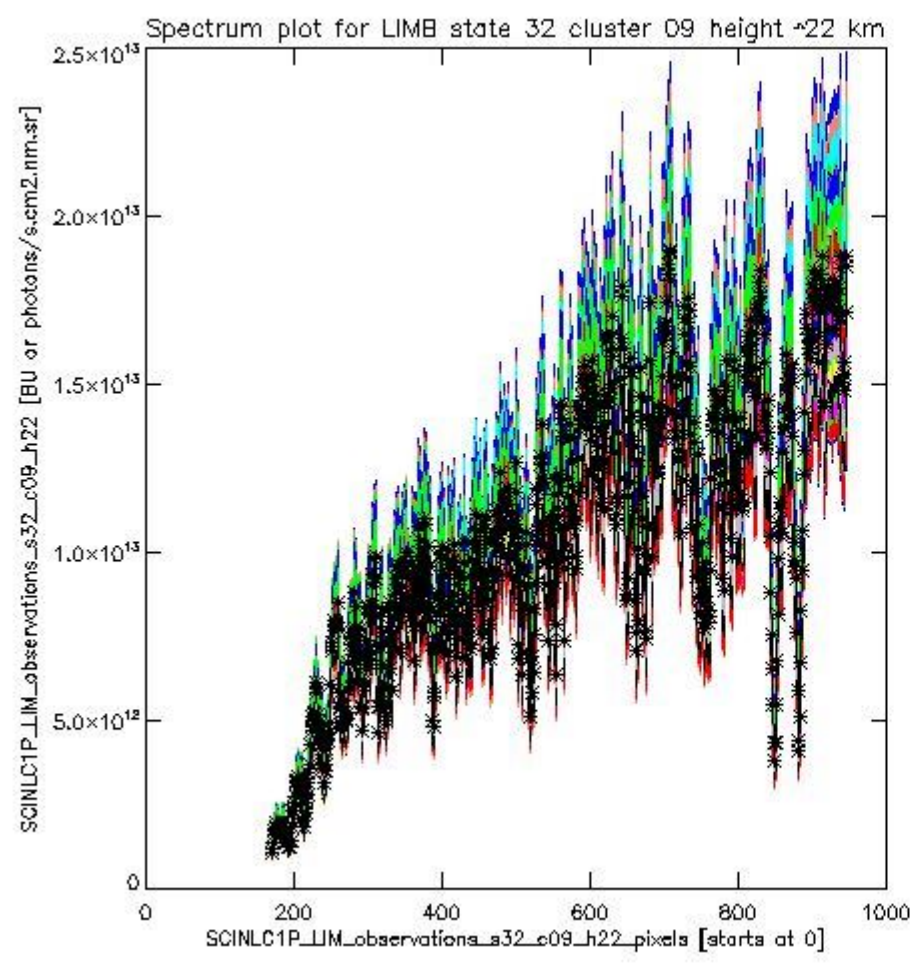
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110307_10.PNG



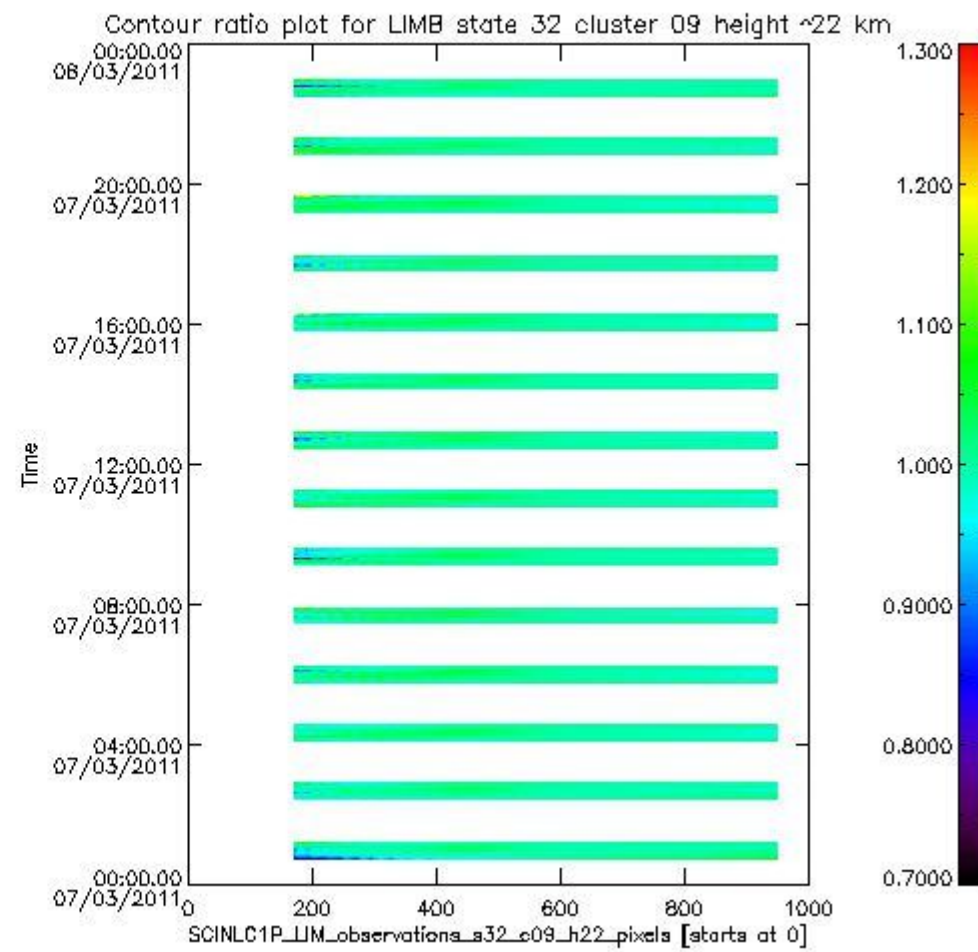
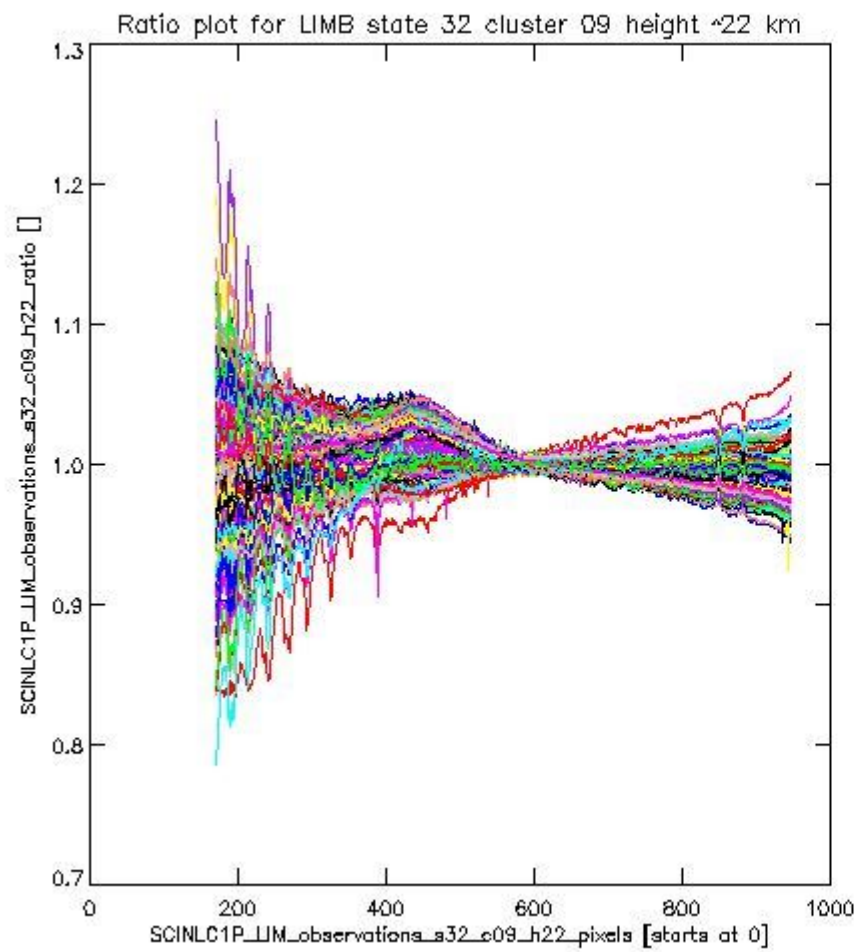
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110307_11.PNG

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	07MAR2011 00:45:31.336
Start time of last sample	07MAR2011 22:56:11.467
Reference period start time	05FEB2011 00:48:15.255
Reference period stop time	06MAR2011 23:33:02.070
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	947



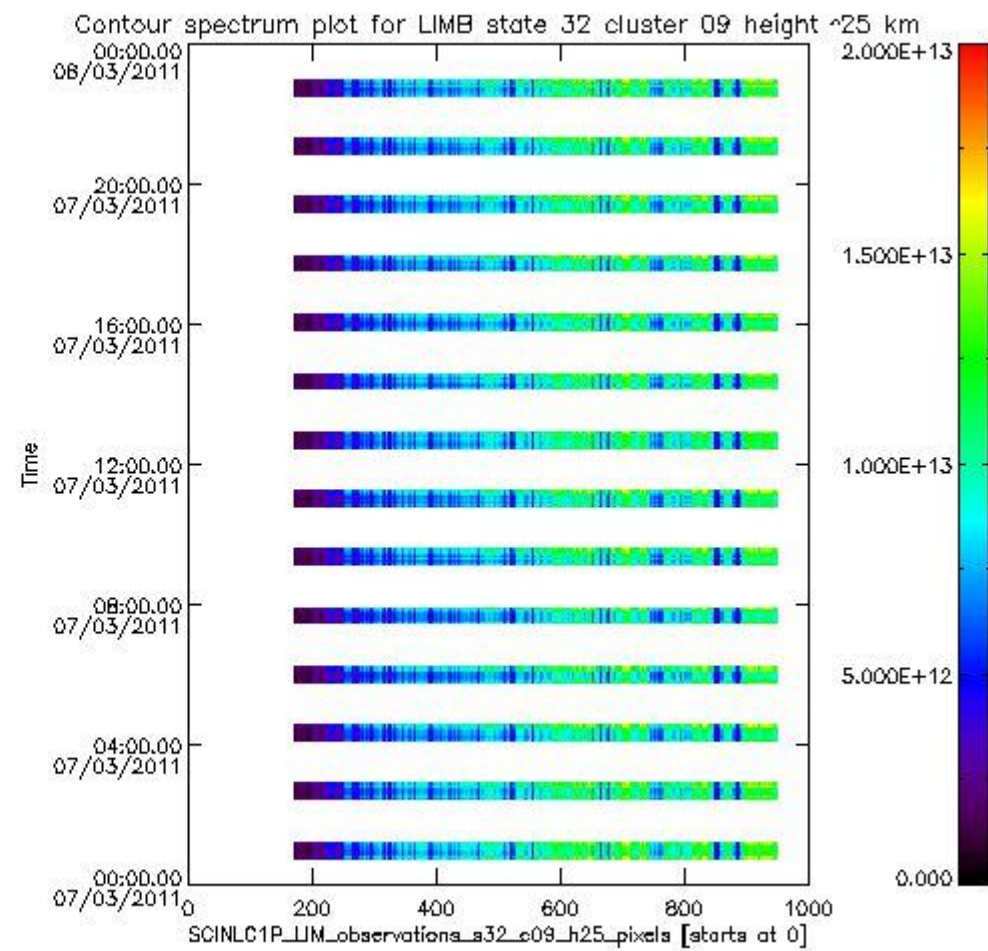
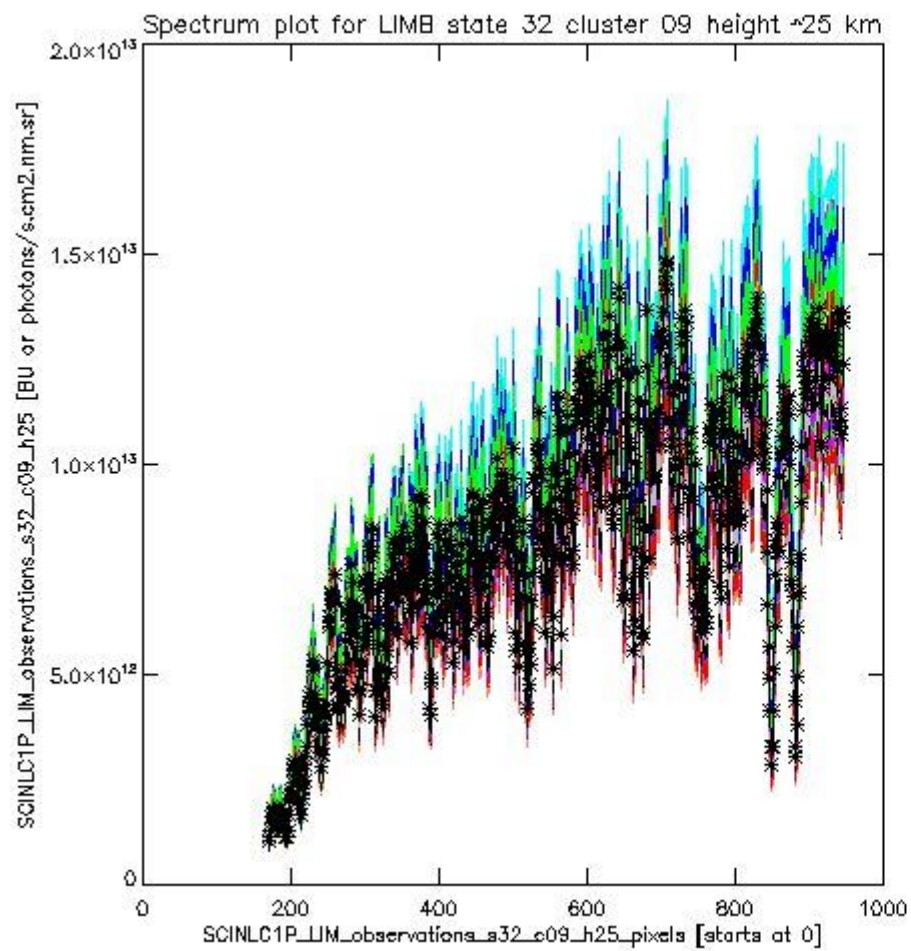
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110307_12.PNG



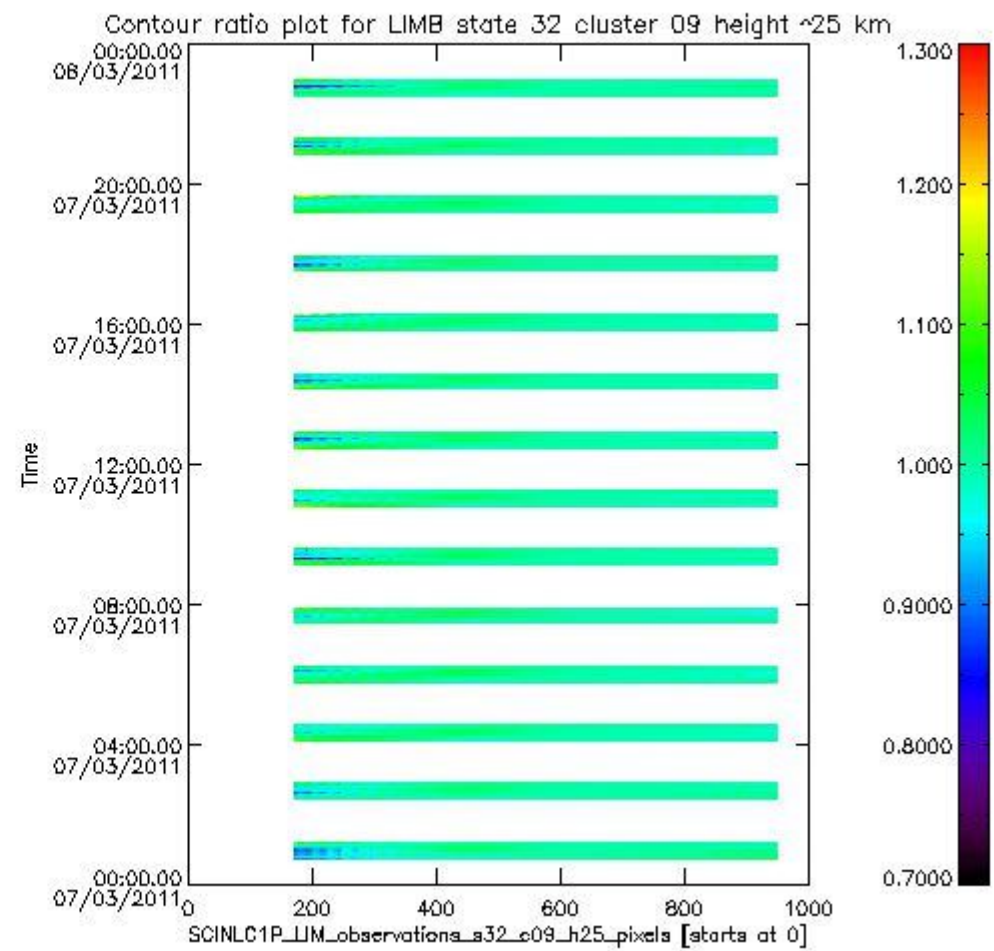
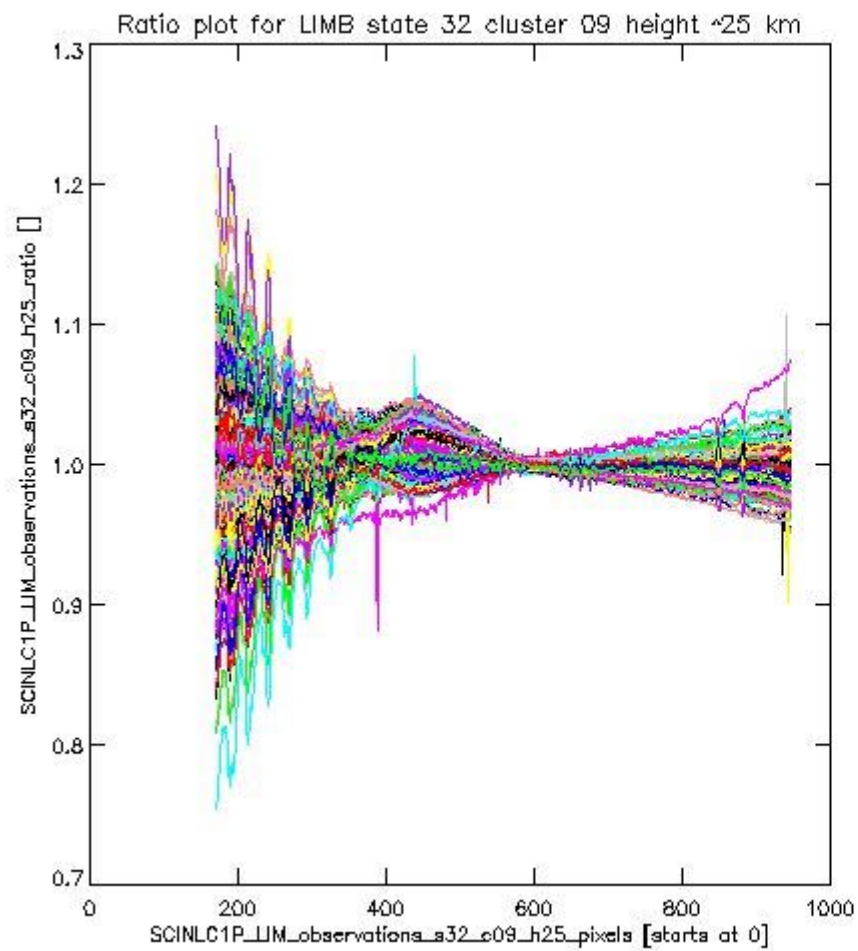
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110307_13.PNG

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	07MAR2011 00:45:31.336
Start time of last sample	07MAR2011 22:56:11.467
Reference period start time	05FEB2011 00:48:15.255
Reference period stop time	06MAR2011 23:33:02.070
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	947



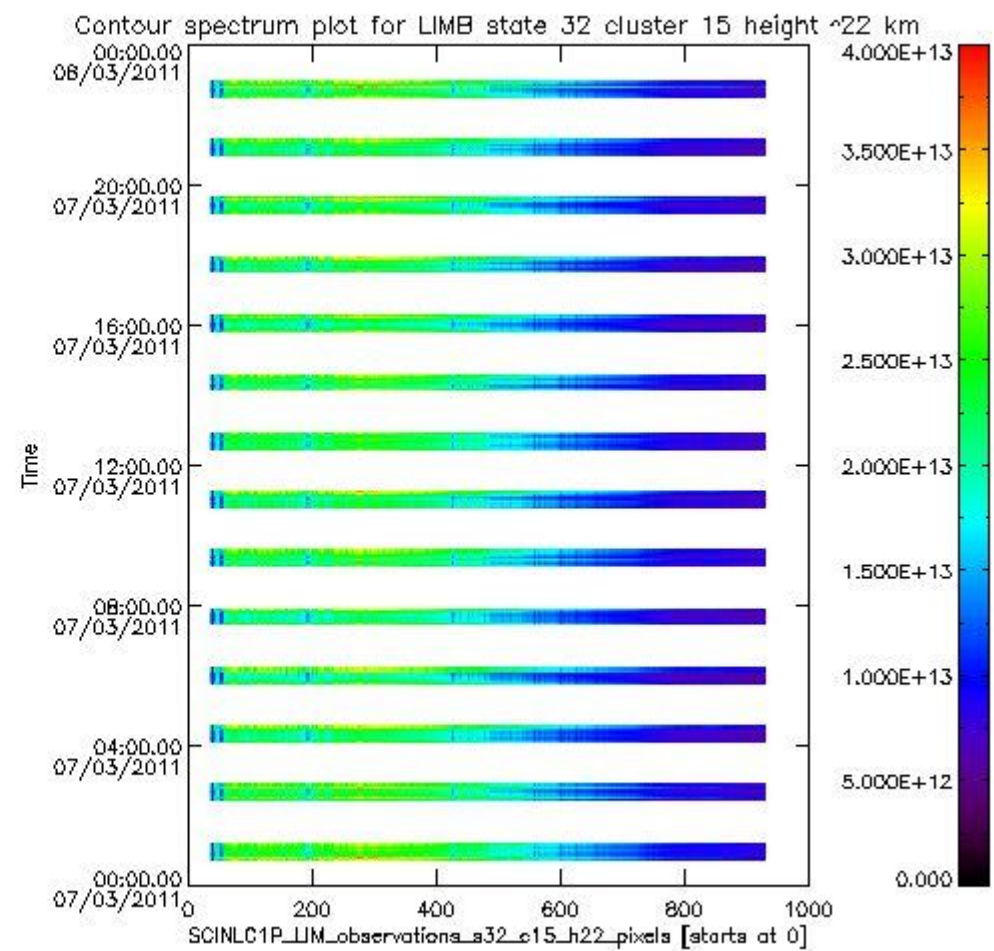
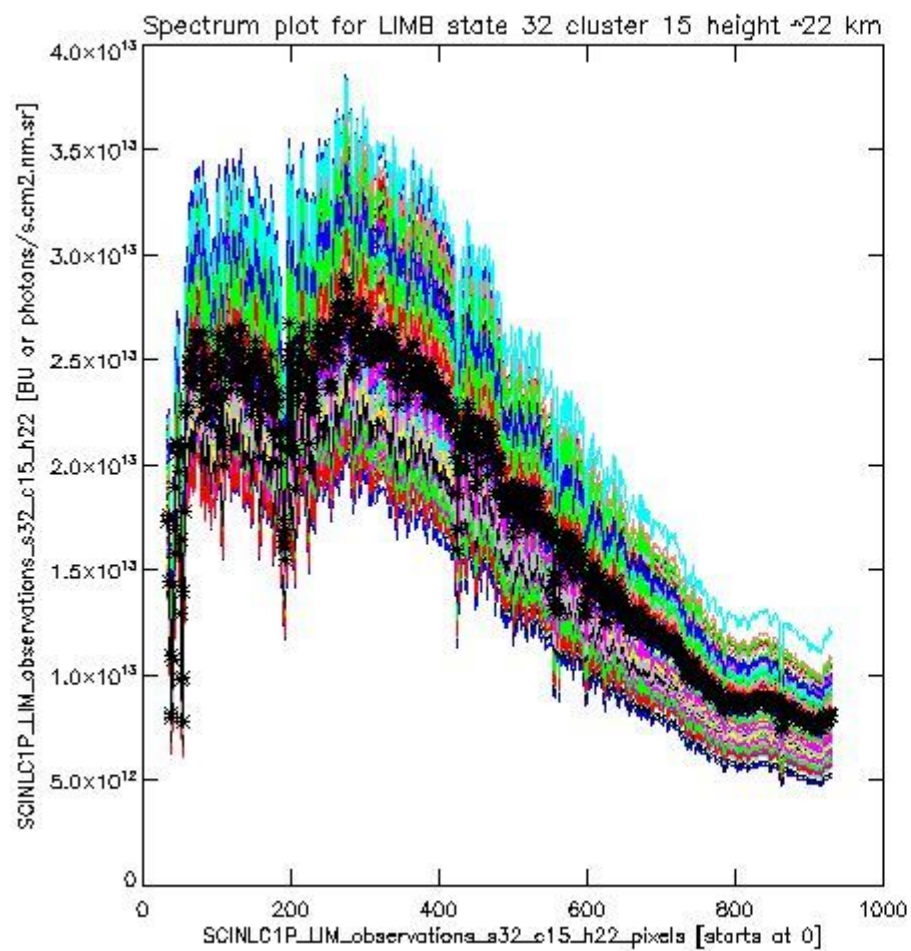
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110307_14.PNG



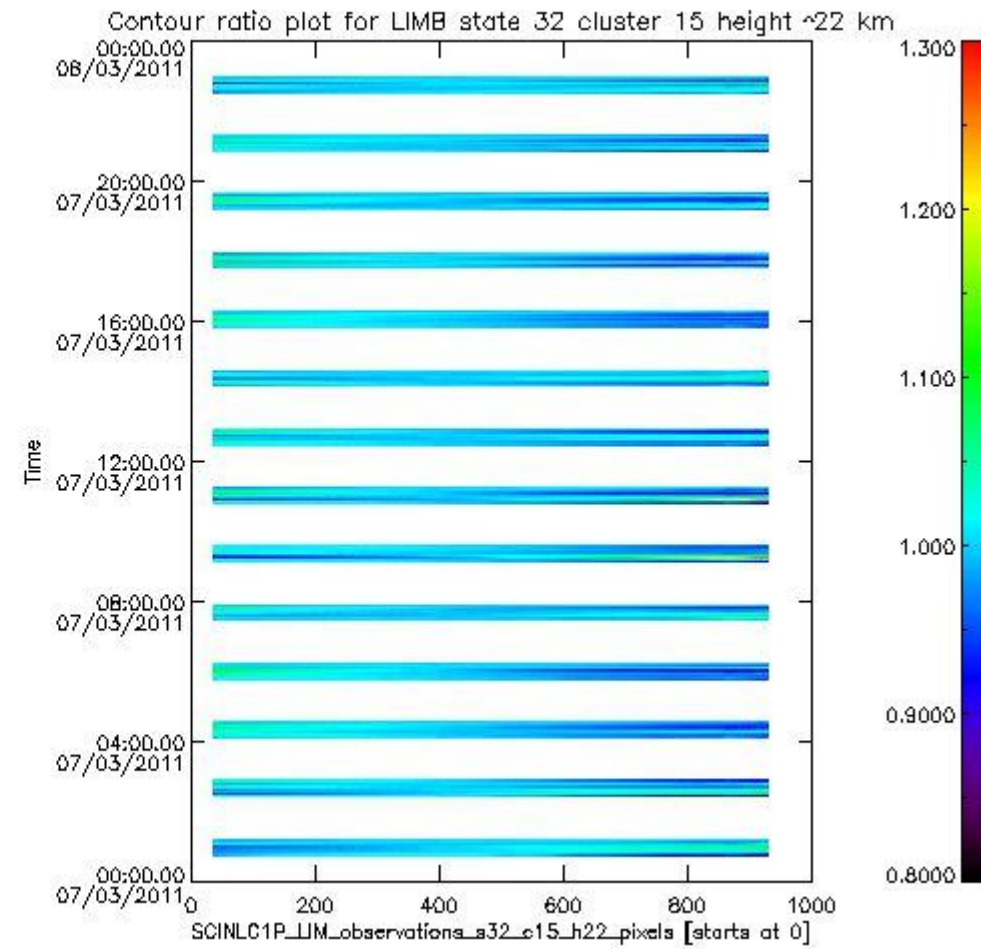
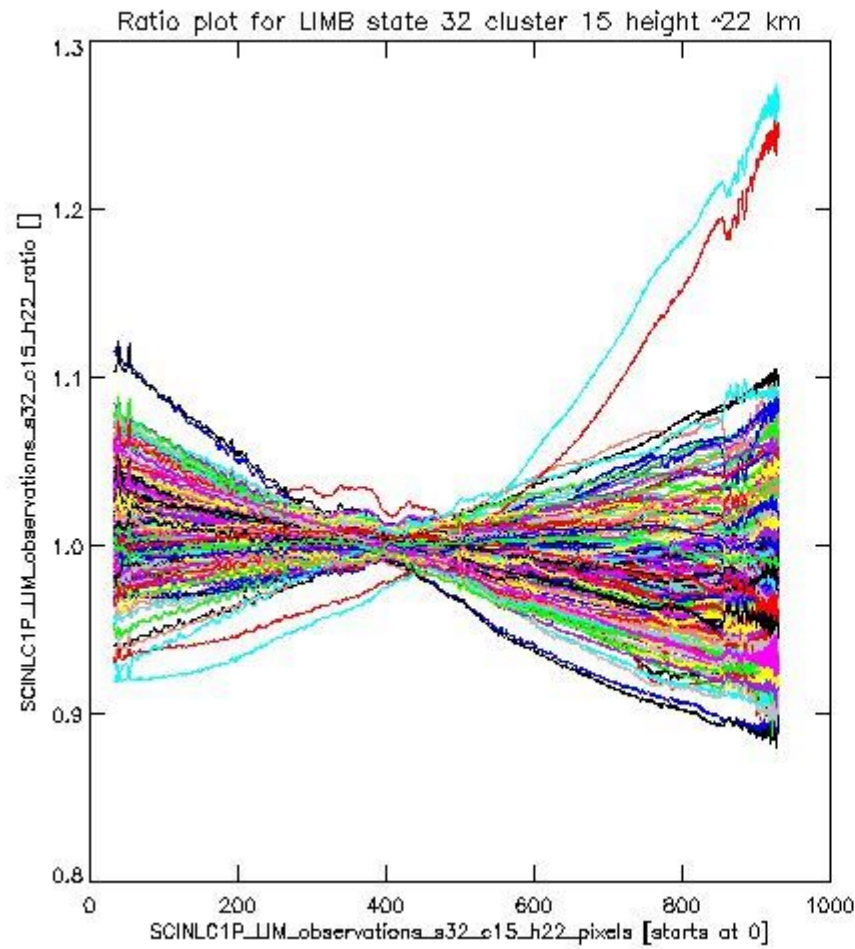
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110307_15.PNG

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	07MAR2011 00:45:31.336
Start time of last sample	07MAR2011 22:56:11.467
Reference period start time	05FEB2011 00:48:15.255
Reference period stop time	06MAR2011 23:33:02.070
Channel number	3
First pixel number (starts at 0)	33
Last pixel number (starts at 0)	929



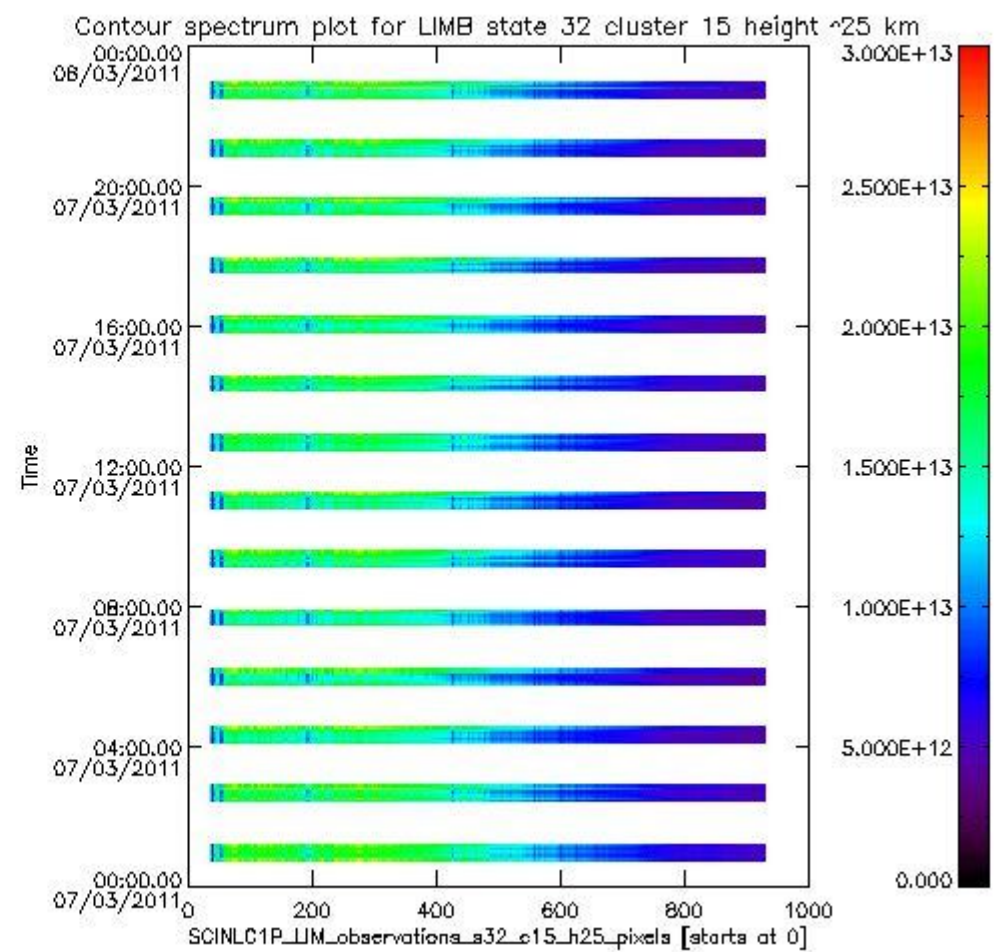
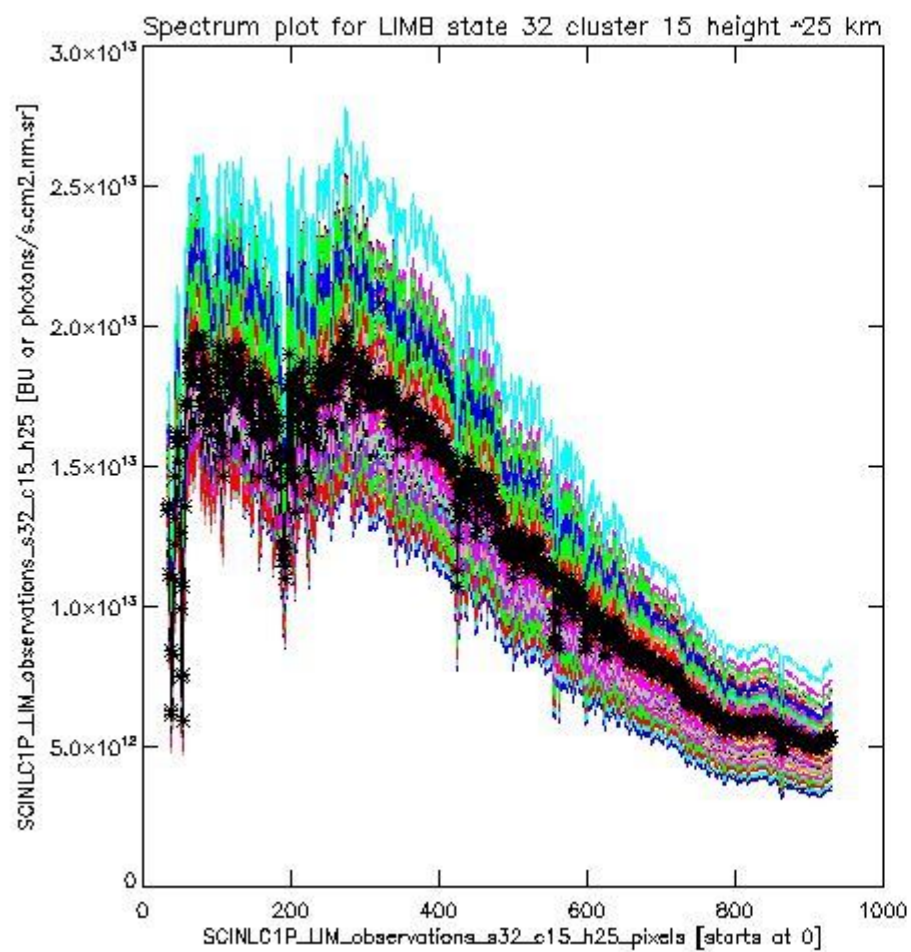
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110307_16.PNG



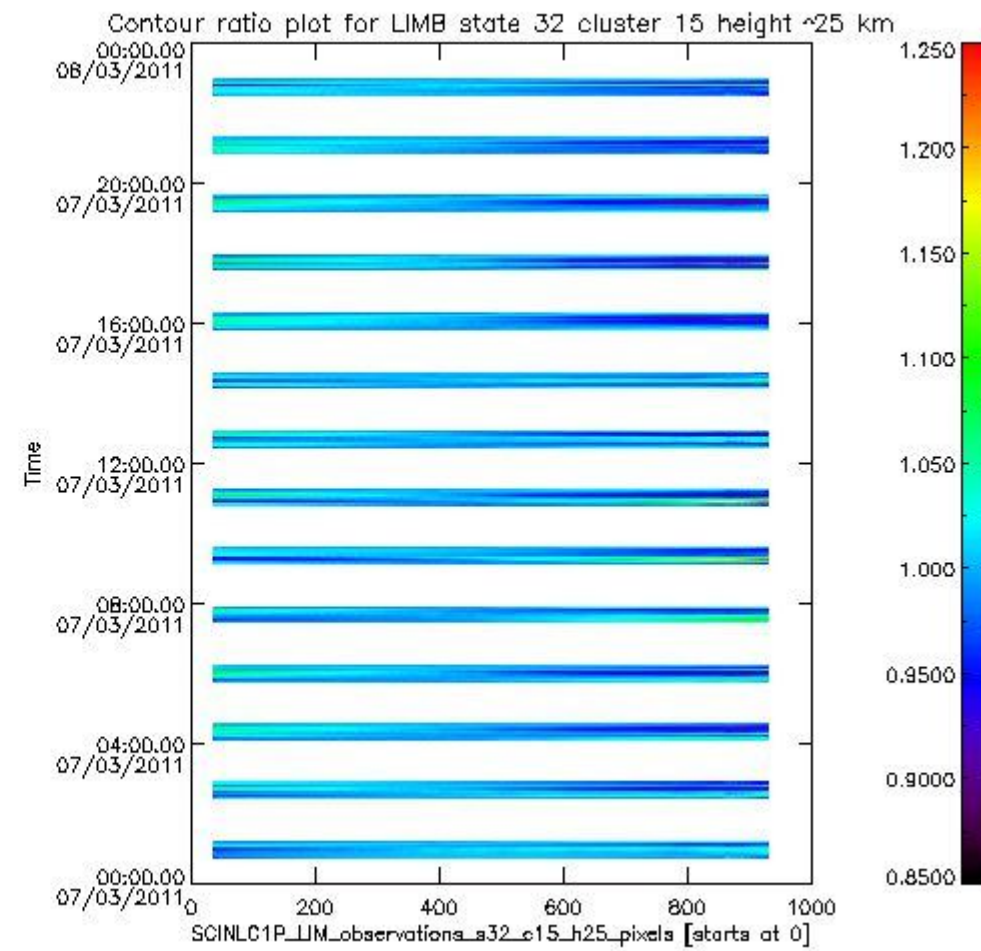
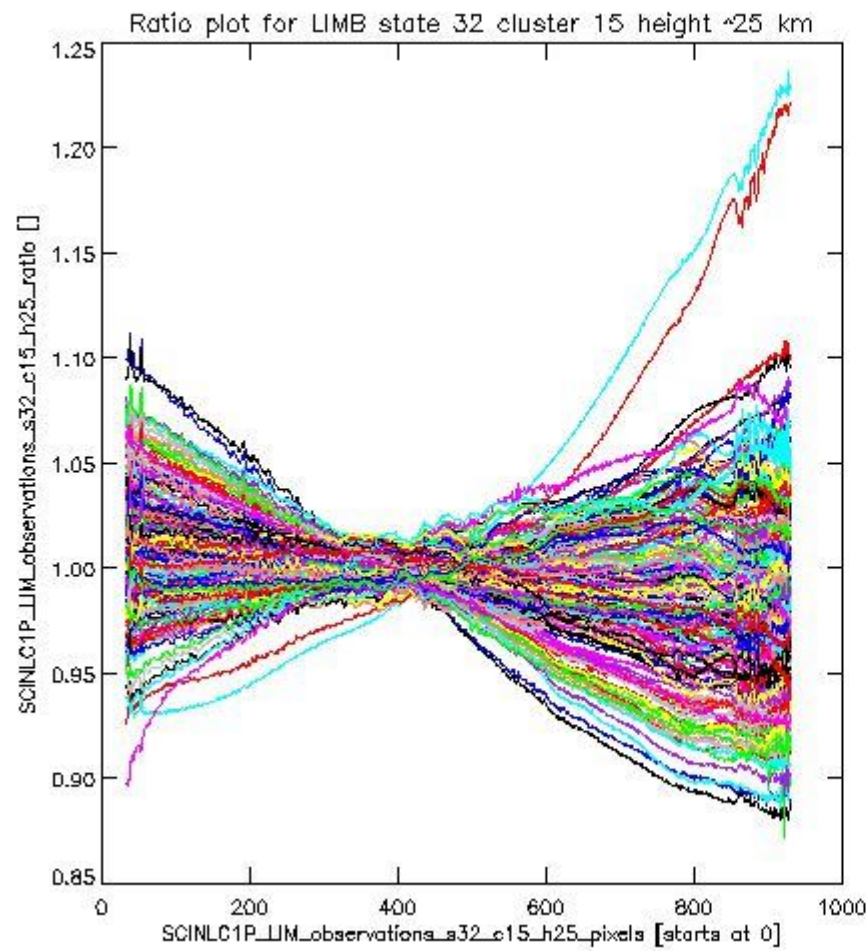
sciamachy_11b_source_packet_report_SCIA_7_04_U_20110307_17.PNG

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	07MAR2011 00:45:31.336
Start time of last sample	07MAR2011 22:56:11.467
Reference period start time	05FEB2011 00:48:15.255
Reference period stop time	06MAR2011 23:33:02.070
Channel number	3
First pixel number (starts at 0)	33
Last pixel number (starts at 0)	929



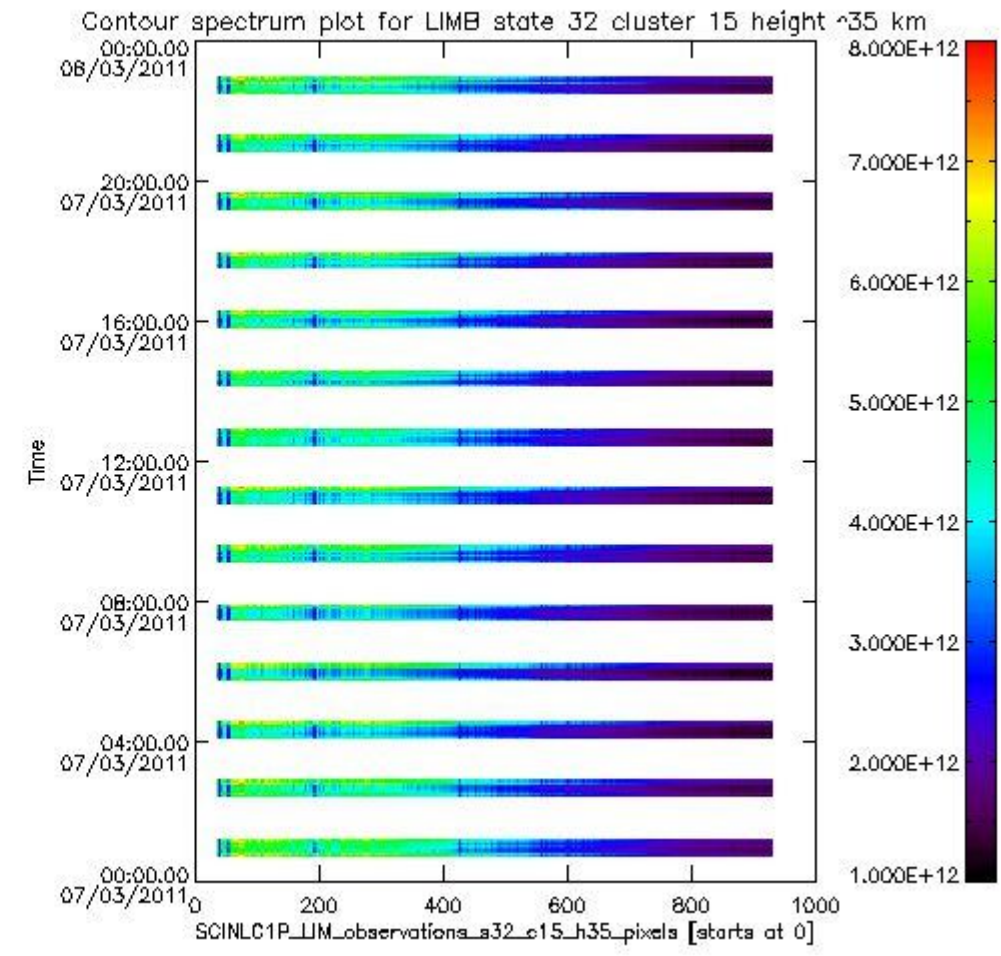
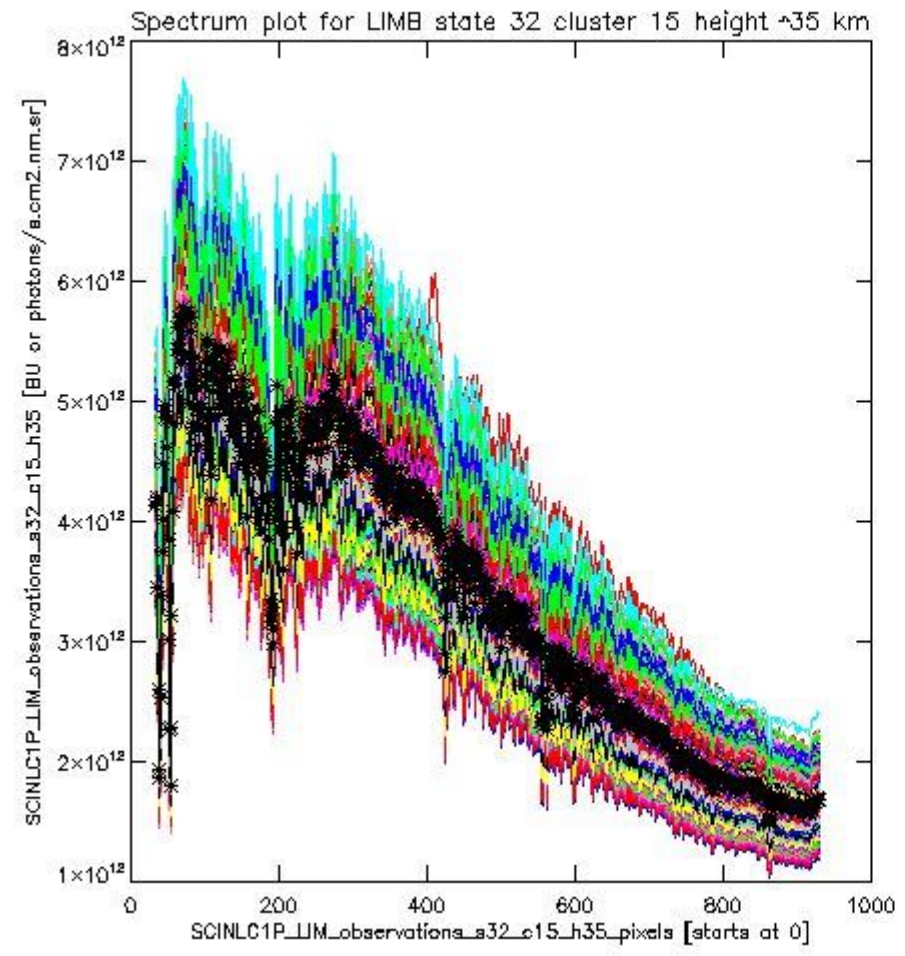
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110307_18.PNG

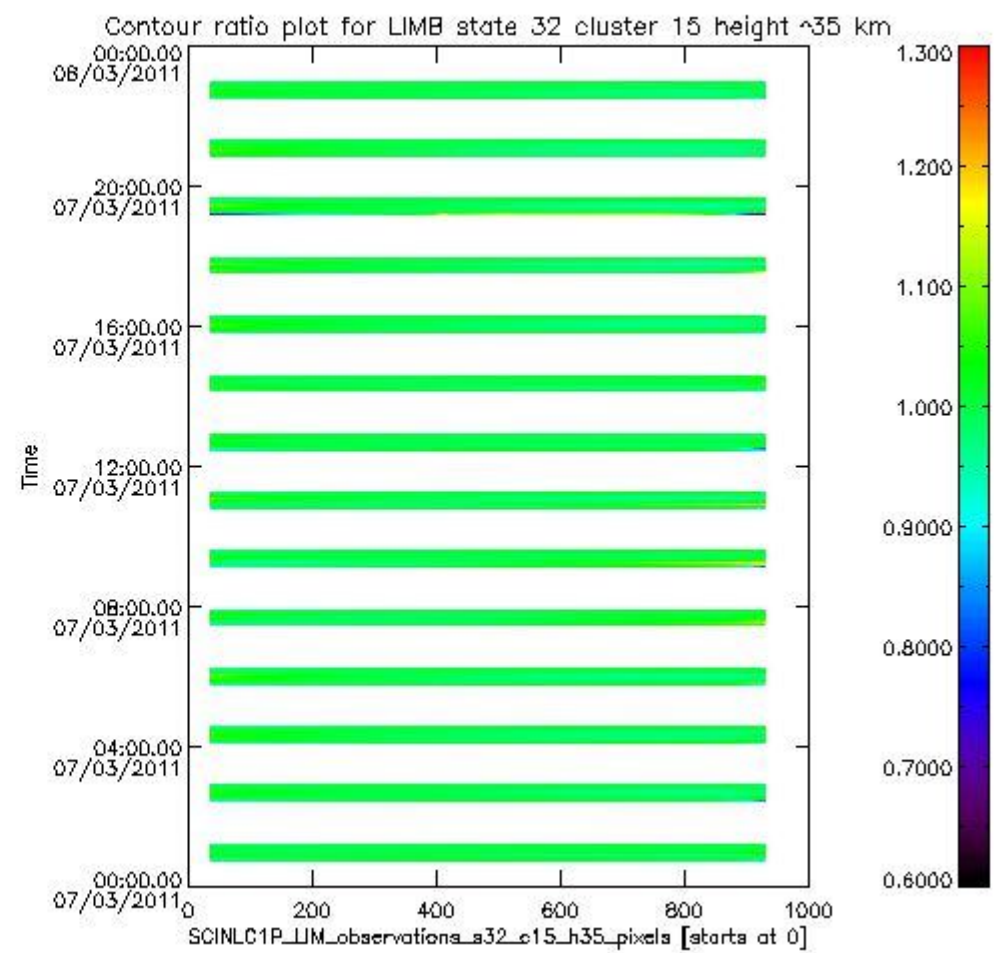
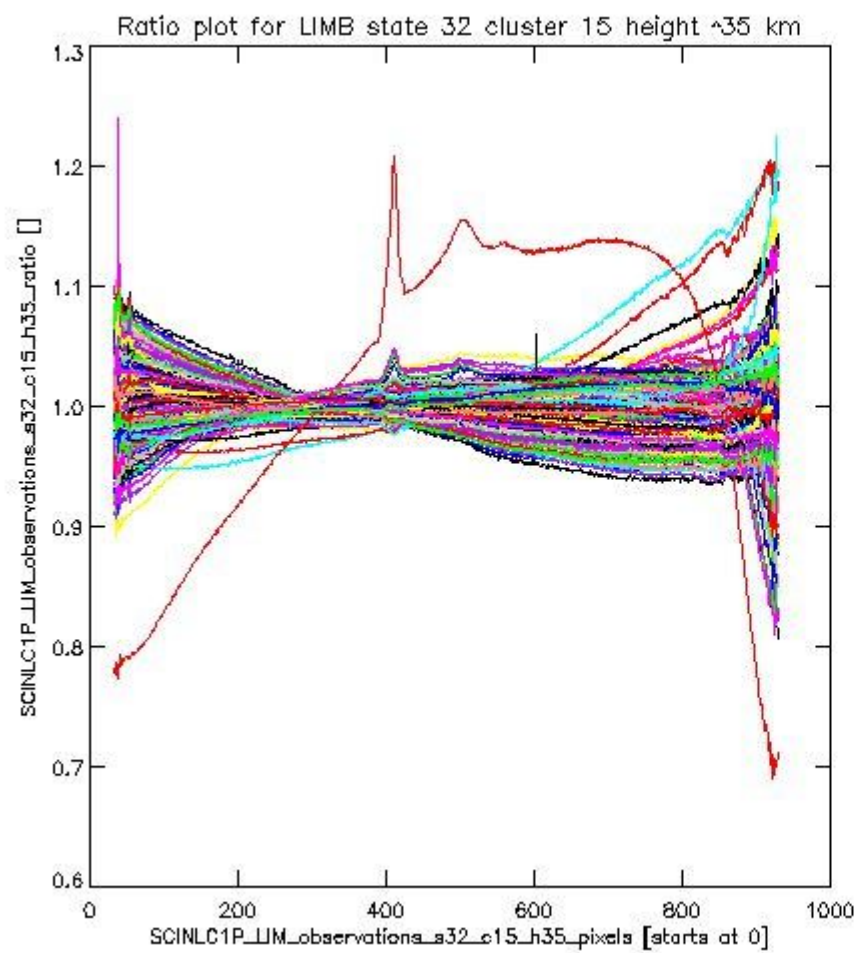


sciamachy_11b_source_packet_report_SCIA_7_04_U_20110307_19.PNG

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	07MAR2011 00:45:31.336
Start time of last sample	07MAR2011 22:56:11.467
Reference period start time	05FEB2011 00:48:15.255
Reference period stop time	06MAR2011 23:33:02.070
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_20110307_21.PNG

