

1. SCIAMACHY Level 1B source packet monitoring report

[1.1. General Info](#)

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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	08FEB2011 06:55:32
Data source version	SCIA/7.04-U
Processing scope for products	28JAN2011 00:00:00 to 29JAN2011 00:00:00
Start time of first product within scope	28JAN2011 00:23:18
Stop time of last product within scope	28JAN2011 18:16:04
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	28JAN2011 00:56:30.085	28JAN2011 17:46:57.307
1	NADIR	07	09	N/A	28JAN2011 00:56:30.085	28JAN2011 17:46:57.307
2	NADIR	07	15	N/A	28JAN2011 00:56:30.085	28JAN2011 17:46:57.307
3	NADIR	07	24	N/A	28JAN2011 00:56:30.085	28JAN2011 17:46:57.307
4	NADIR	07	55	N/A	28JAN2011 00:56:30.085	28JAN2011 17:46:57.307
5	LIMB	32	09	~19 km	28JAN2011 00:41:16.706	28JAN2011 17:52:11.351
6	LIMB	32	09	~22 km	28JAN2011 00:41:16.706	28JAN2011 17:52:11.351
7	LIMB	32	09	~25 km	28JAN2011 00:41:16.706	28JAN2011 17:52:11.351
8	LIMB	32	15	~22 km	28JAN2011 00:41:16.706	28JAN2011 17:52:11.351
9	LIMB	32	15	~25 km	28JAN2011 00:41:16.706	28JAN2011 17:52:11.351
10	LIMB	32	15	~35 km	28JAN2011 00:41:16.706	28JAN2011 17:52:11.351

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	#noprocc	#cmpl_drk	#incmpl_drk	Decont
0	SCI_NLC_1CUDPA20110128_000727_000060023099_00031_46597_4021.N1	28JAN2011 00:23:18	28JAN2011 01:33:47	0	36	30	0	0	1	0	0	
1	SCI_NLC_1CUDPA20110128_014733_000060183099_00032_46598_4023.N1	28JAN2011 02:03:32	28JAN2011 03:13:47	0	35	31	0	0	1	0	0	
2	SCI_NLC_1CUDPA20110128_032755_000060023099_00033_46599_4026.N1	28JAN2011 03:43:46	28JAN2011 04:54:15	0	36	30	0	0	1	0	0	
3	SCI_NLC_1CUDPA20110128_050800_000060183099_00034_46600_4027.N1	28JAN2011 05:23:59	28JAN2011 06:34:14	0	35	31	0	0	1	0	0	
4	SCI_NLC_1CUDPA20110128_064822_000060023099_00035_46601_4030.N1	28JAN2011 07:04:13	28JAN2011 08:14:42	0	36	30	0	0	1	0	0	
5	SCI_NLC_1CUDPA20110128_082828_000060173099_00036_46602_4033.N1	28JAN2011 08:44:27	28JAN2011 09:54:41	0	35	31	0	0	1	0	0	

6	SCI_NLC_1CUDPA20110128_100849_000060023099_00037_46603_4035.N1	28JAN2011 10:24:40	28JAN2011 11:35:09	0	36	30	0	0	1	0	0	
7	SCI_NLC_1CUDPA20110128_114855_000060173099_00038_46604_4037.N1	28JAN2011 12:04:54	28JAN2011 13:15:08	0	35	31	0	0	1	0	0	
8	SCI_NLC_1CUDPA20110128_132917_000060023099_00039_46605_4040.N1	28JAN2011 13:45:07	28JAN2011 14:55:36	0	36	30	0	0	1	0	0	
9	SCI_NLC_1CUDPA20110128_150922_000060183099_00040_46606_4042.N1	28JAN2011 15:25:21	28JAN2011 16:35:36	0	35	31	0	0	1	0	0	
10	SCI_NLC_1CUDPA20110128_164944_000060023099_00041_46607_4044.N1	28JAN2011 17:05:35	28JAN2011 18:16:04	0	36	30	0	0	1	0	0	

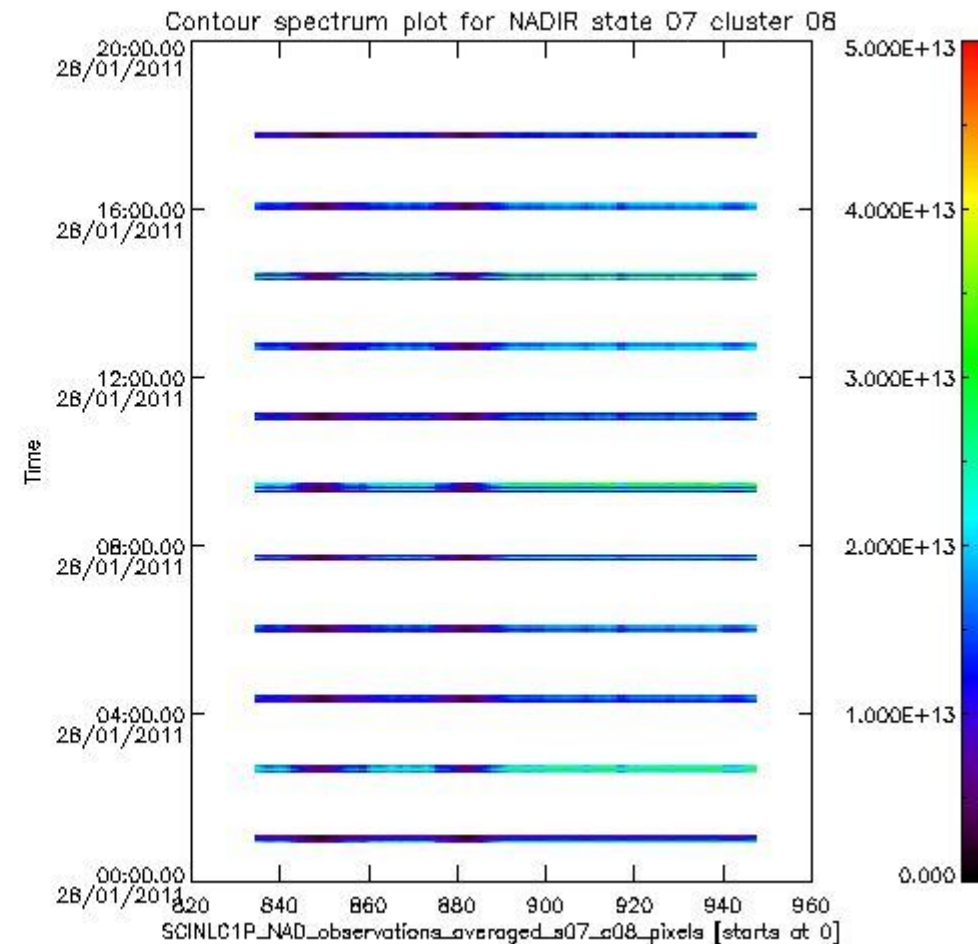
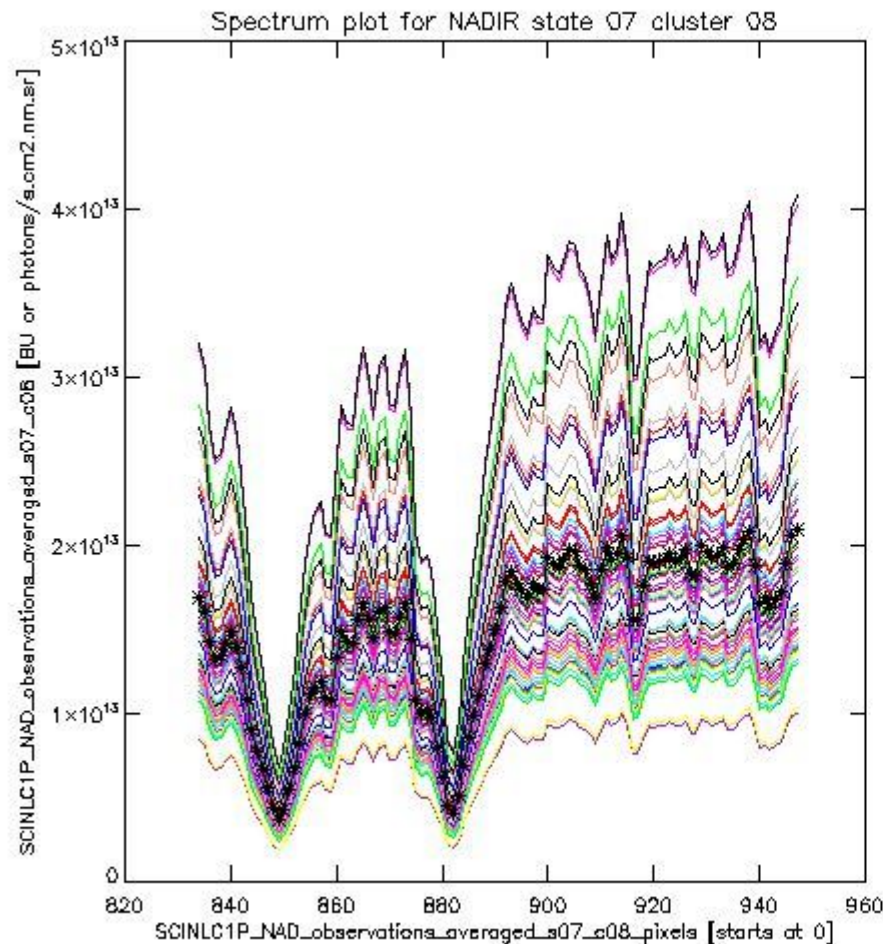
1.2 Source packet monitoring

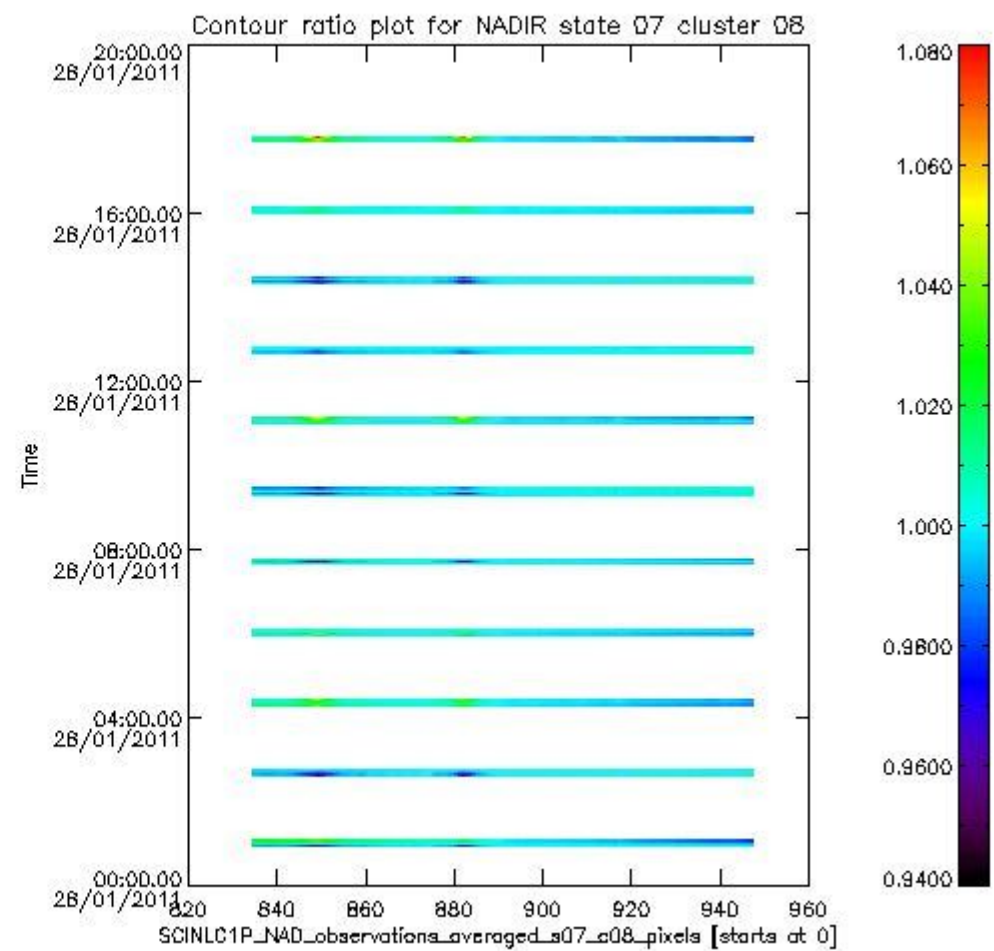
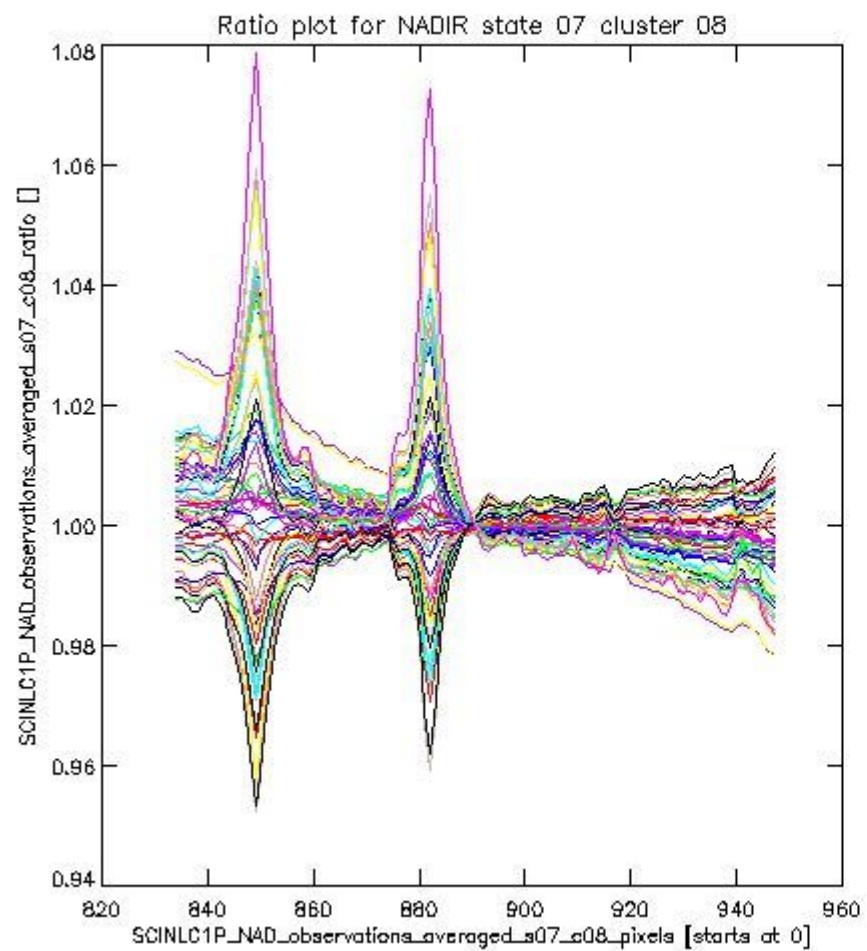
This section shows figures for each of the monitored source packet types listed in the Source Packet Summary section. For each mode-state-cluster(-height) combination the following plots are shown:

- 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	28JAN2011 00:56:30.085
Start time of last sample	28JAN2011 17:46:57.307
Reference period start time	29DEC2010 00:56:31.536
Reference period stop time	27JAN2011 15:03:19.186
Channel number	2
First pixel number (starts at 0)	834
Last pixel number (starts at 0)	947

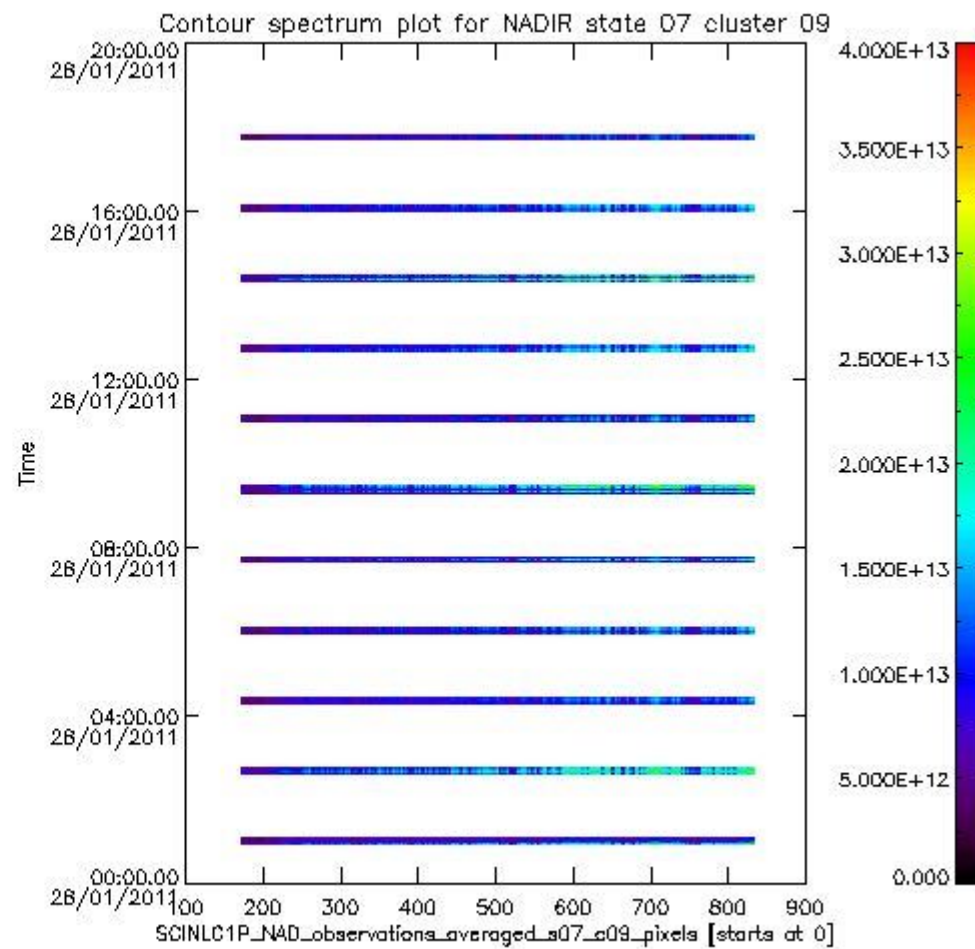
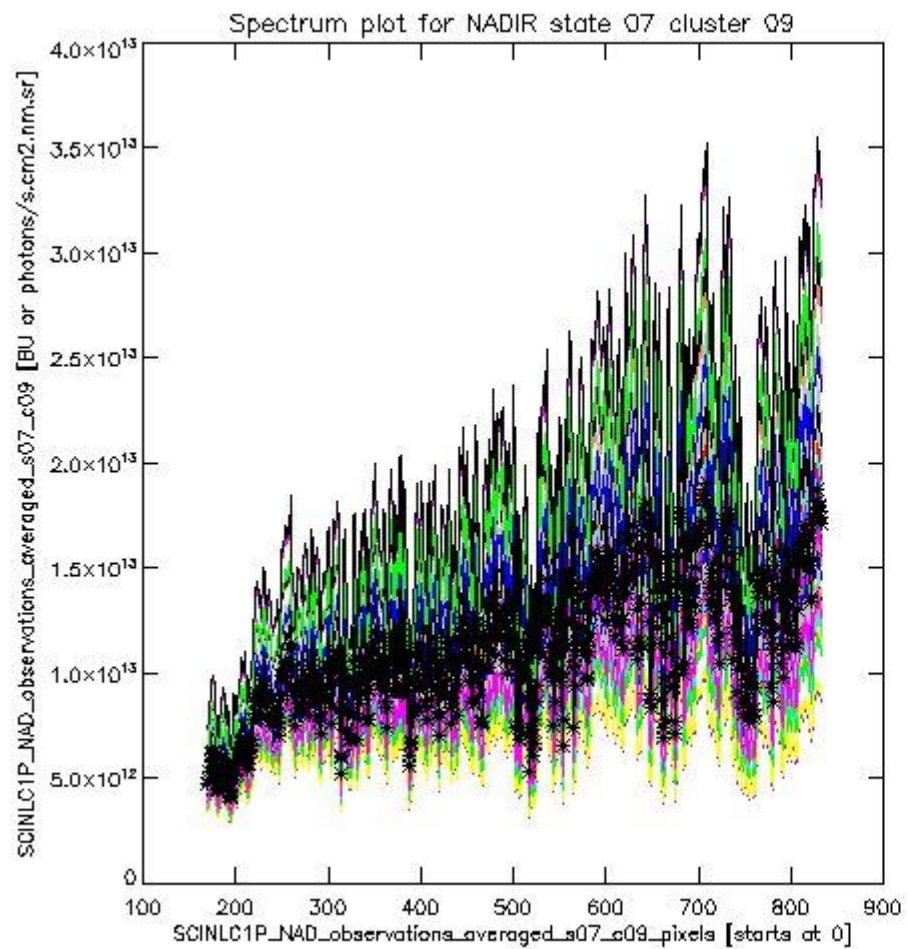




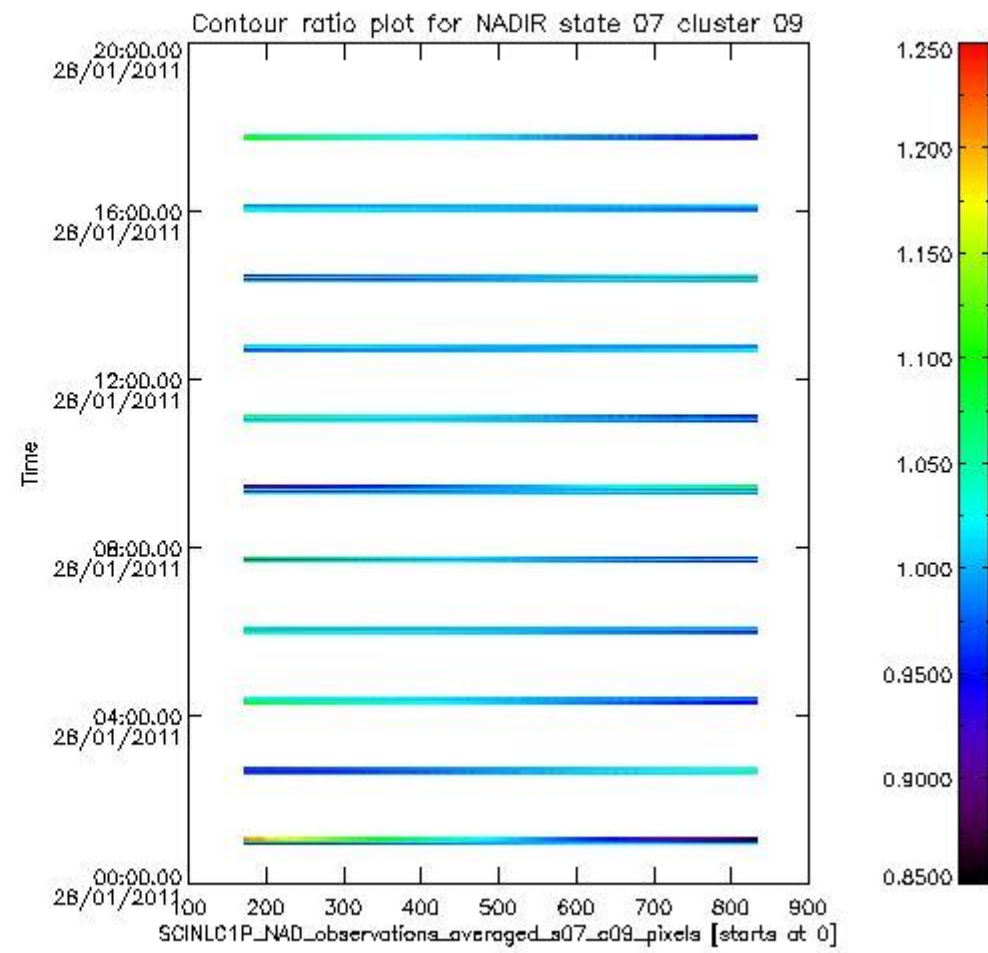
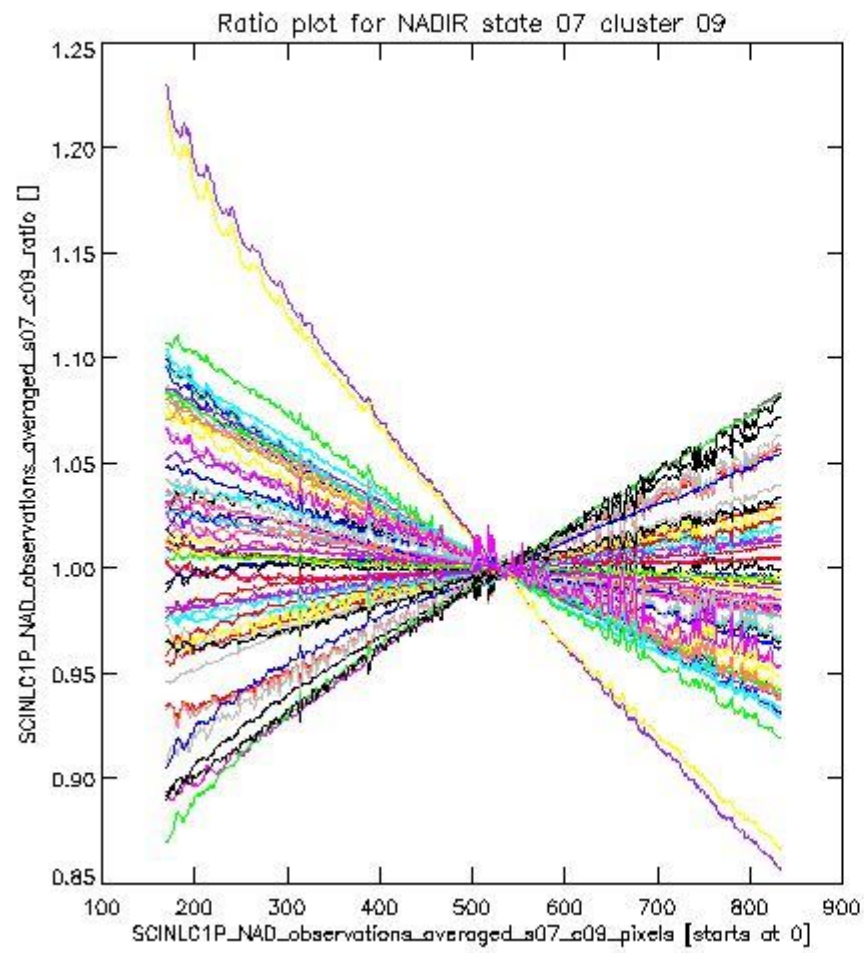
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110128_1.PNG

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	28JAN2011 00:56:30.085
Start time of last sample	28JAN2011 17:46:57.307
Reference period start time	29DEC2010 00:56:31.536
Reference period stop time	27JAN2011 15:03:19.186
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	833



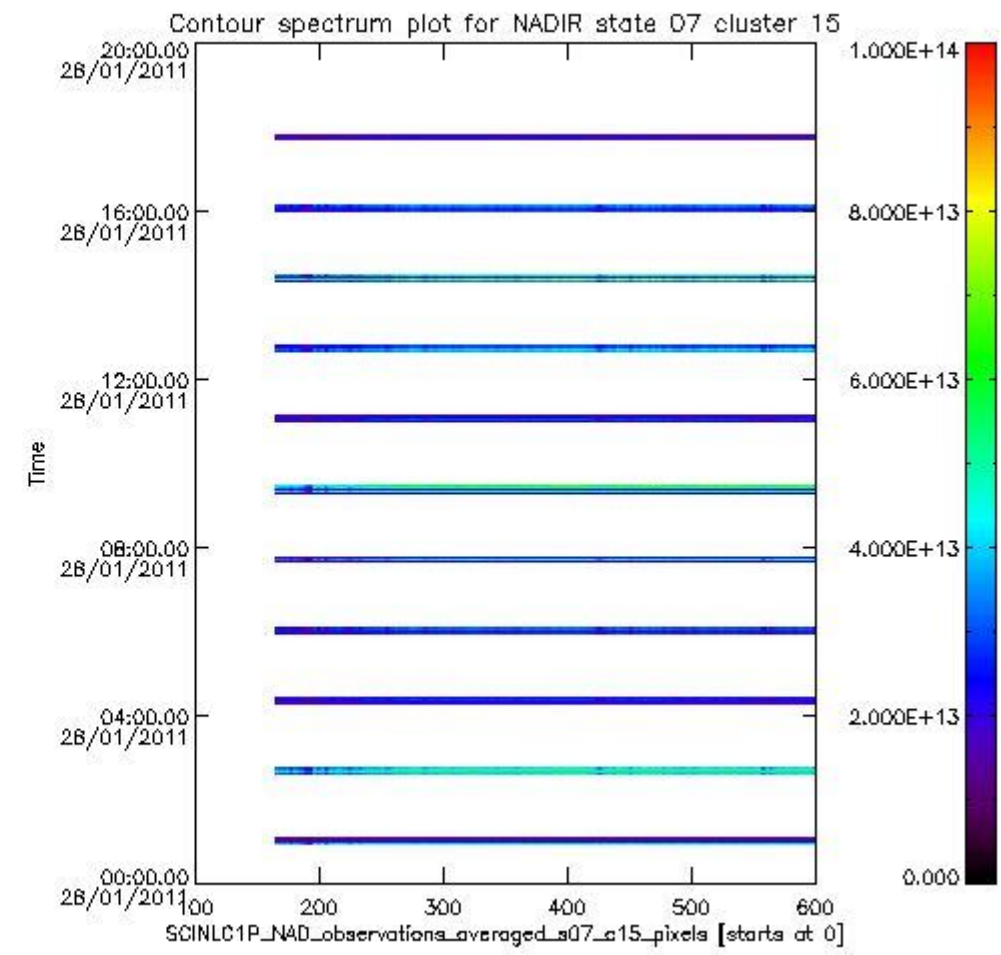
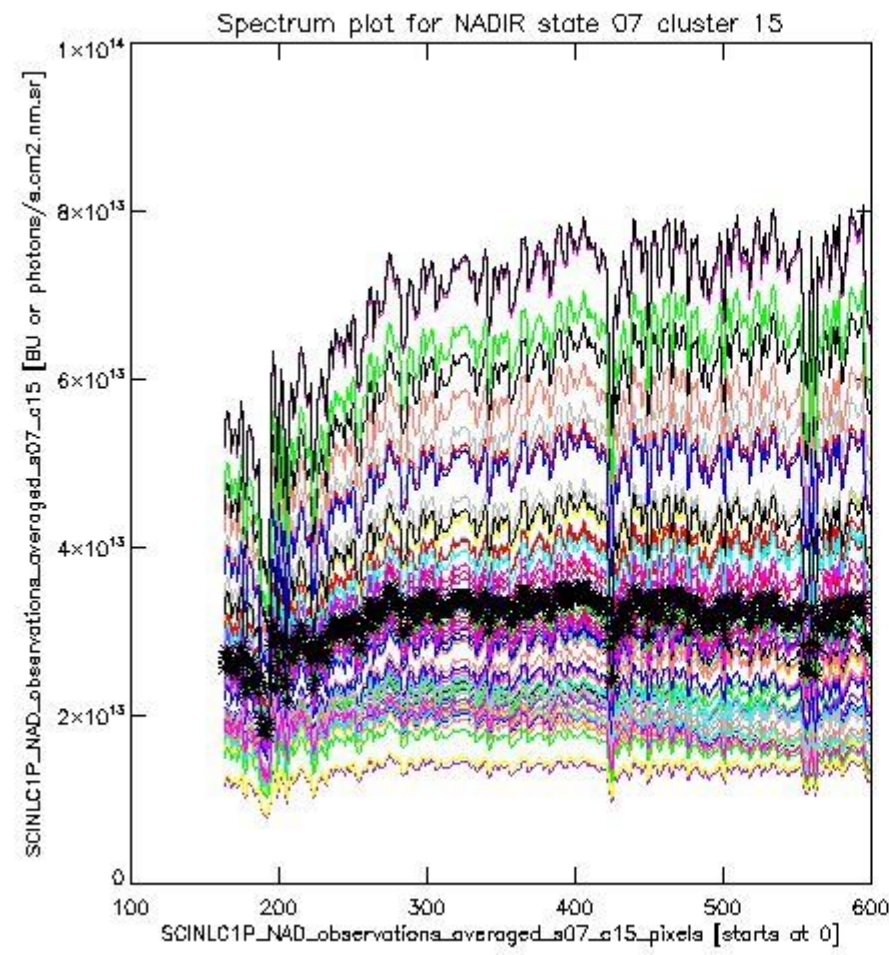
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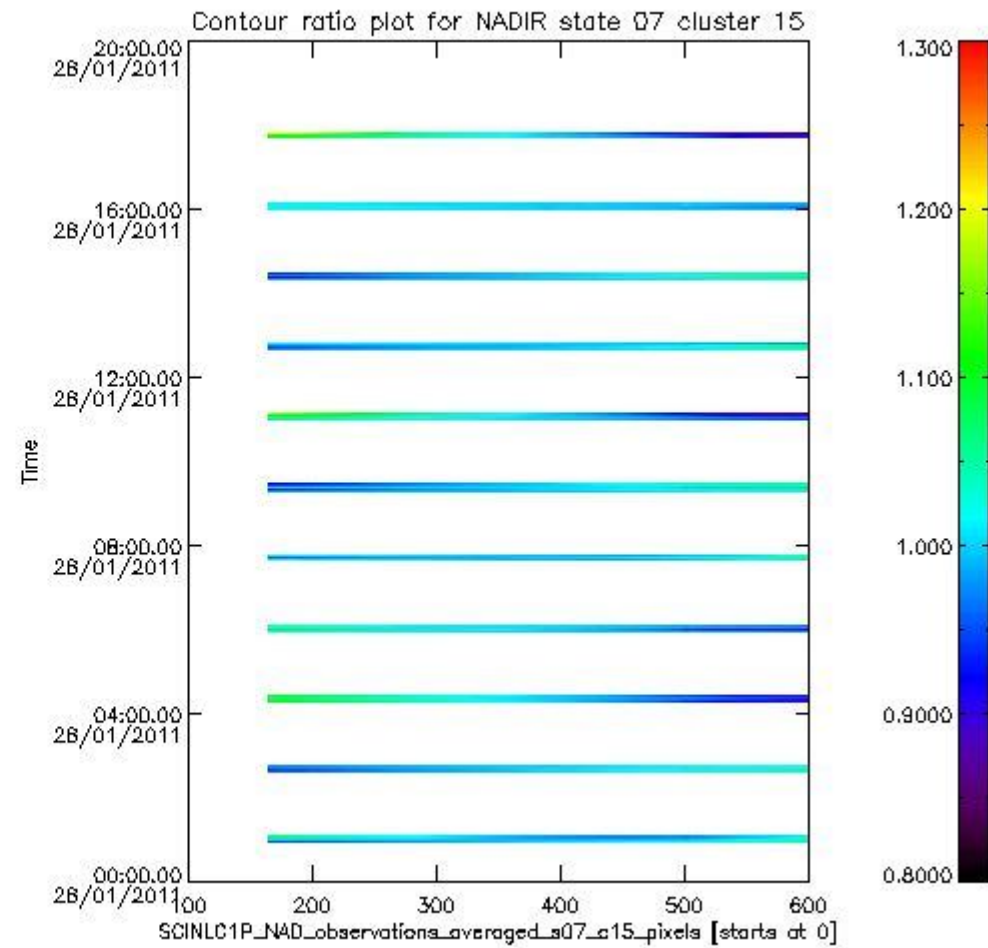
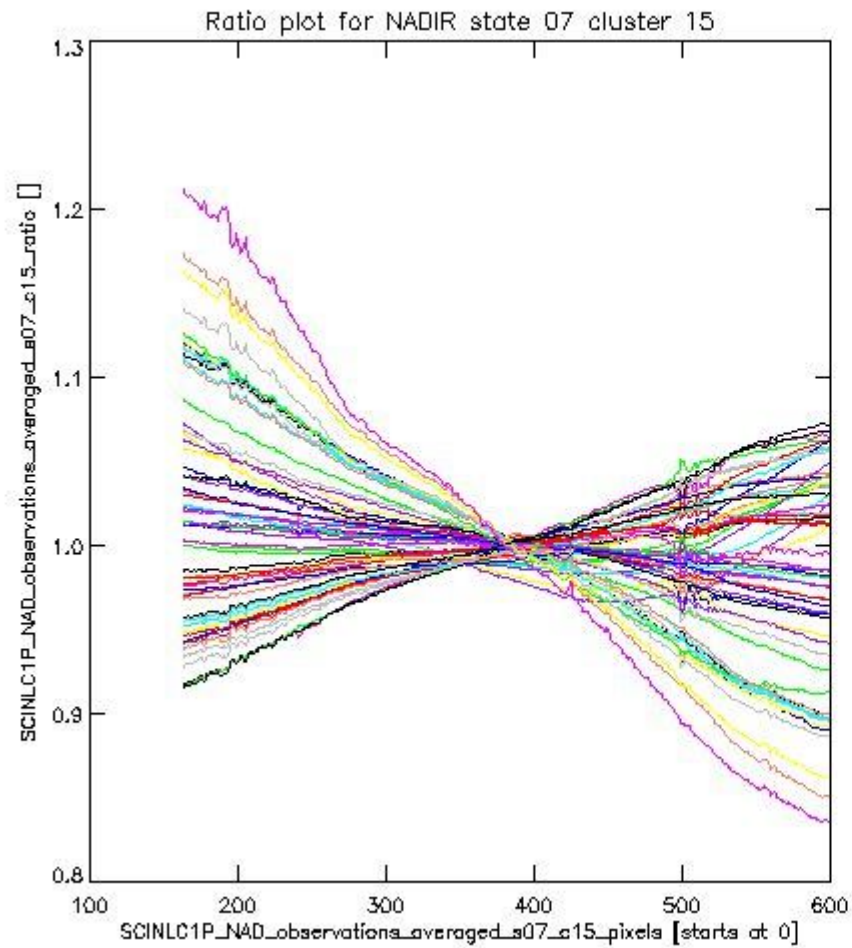
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110128_3.PNG

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	28JAN2011 00:56:30.085
Start time of last sample	28JAN2011 17:46:57.307
Reference period start time	29DEC2010 00:56:31.536
Reference period stop time	27JAN2011 15:03:19.186
Channel number	3
First pixel number (starts at 0)	163
Last pixel number (starts at 0)	598



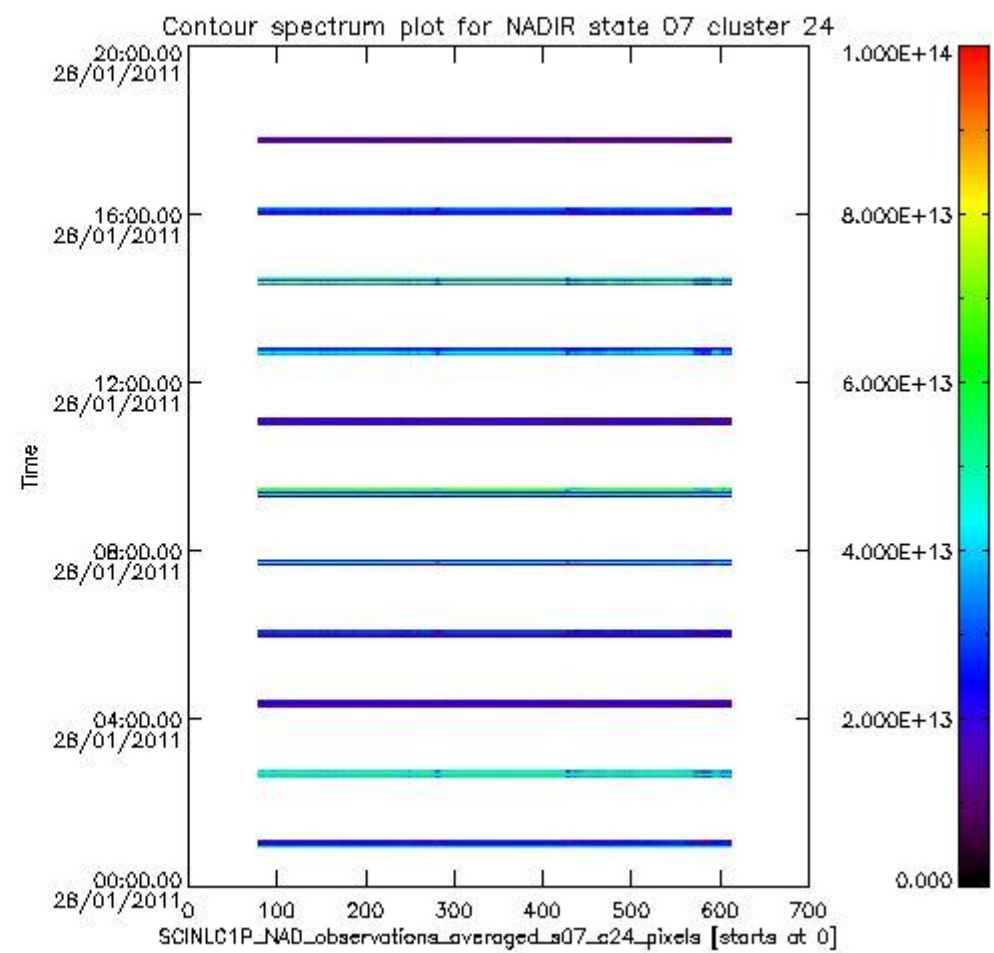
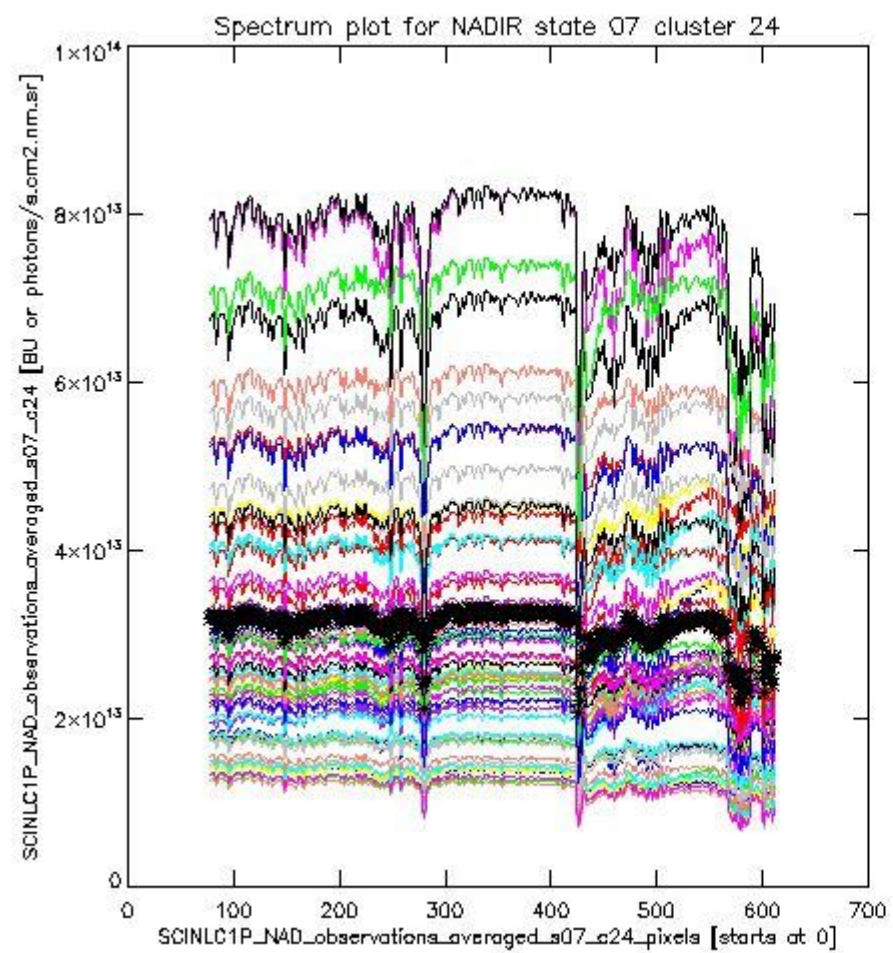
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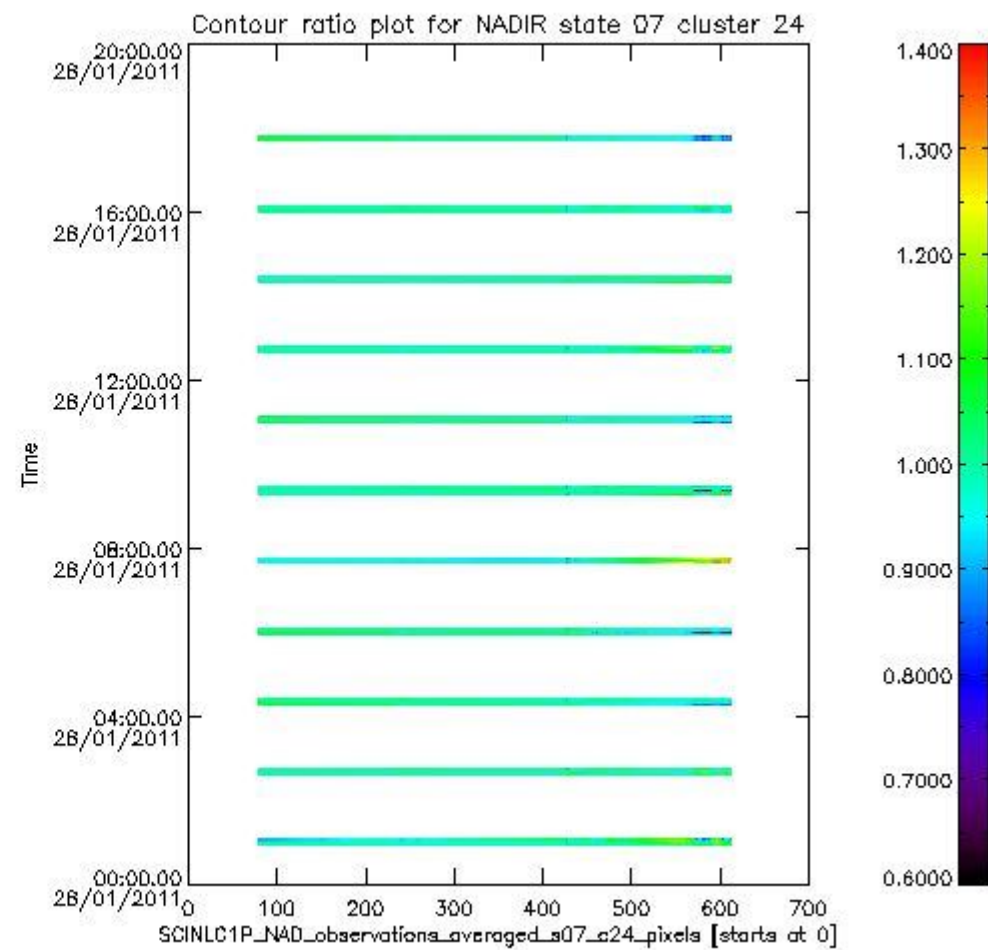
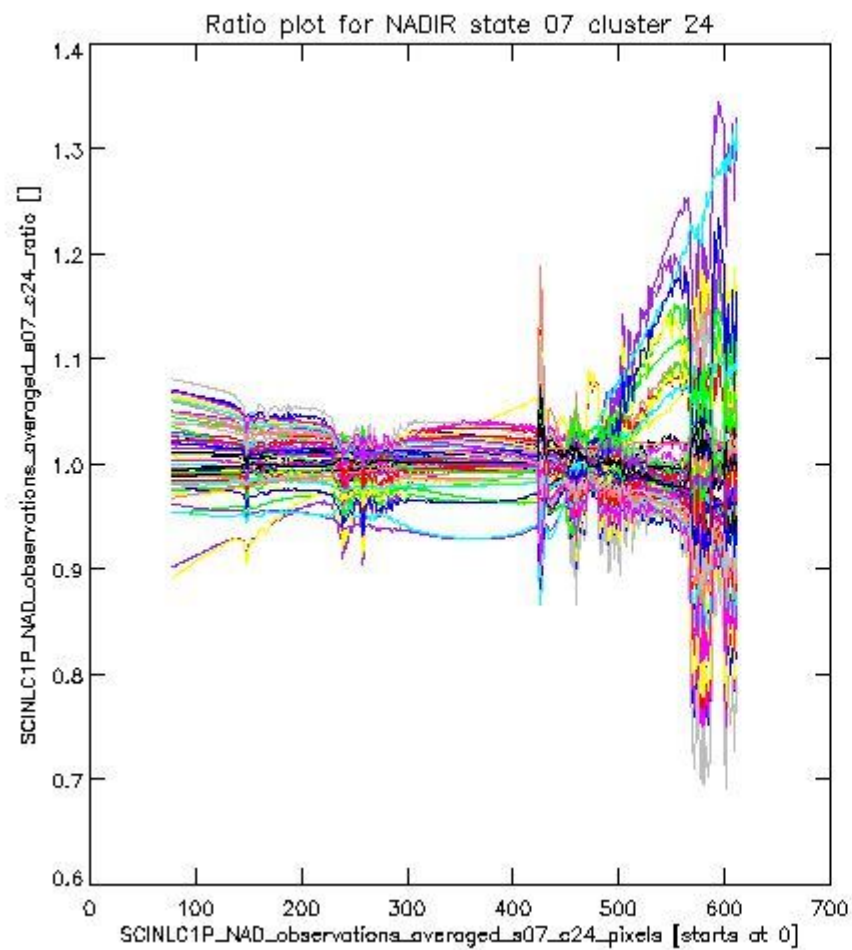
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110128_5.PNG

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	28JAN2011 00:56:30.085
Start time of last sample	28JAN2011 17:46:57.307
Reference period start time	29DEC2010 00:56:31.536
Reference period stop time	27JAN2011 15:03:19.186
Channel number	4
First pixel number (starts at 0)	78
Last pixel number (starts at 0)	612



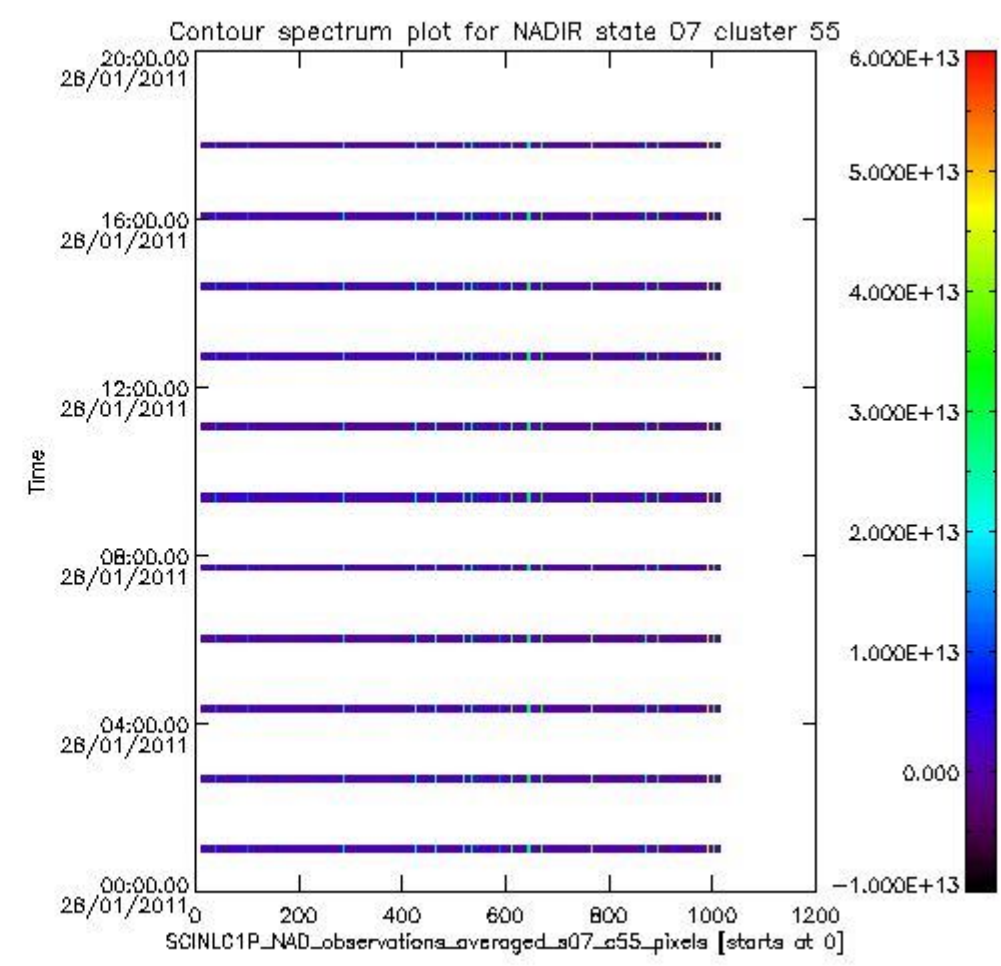
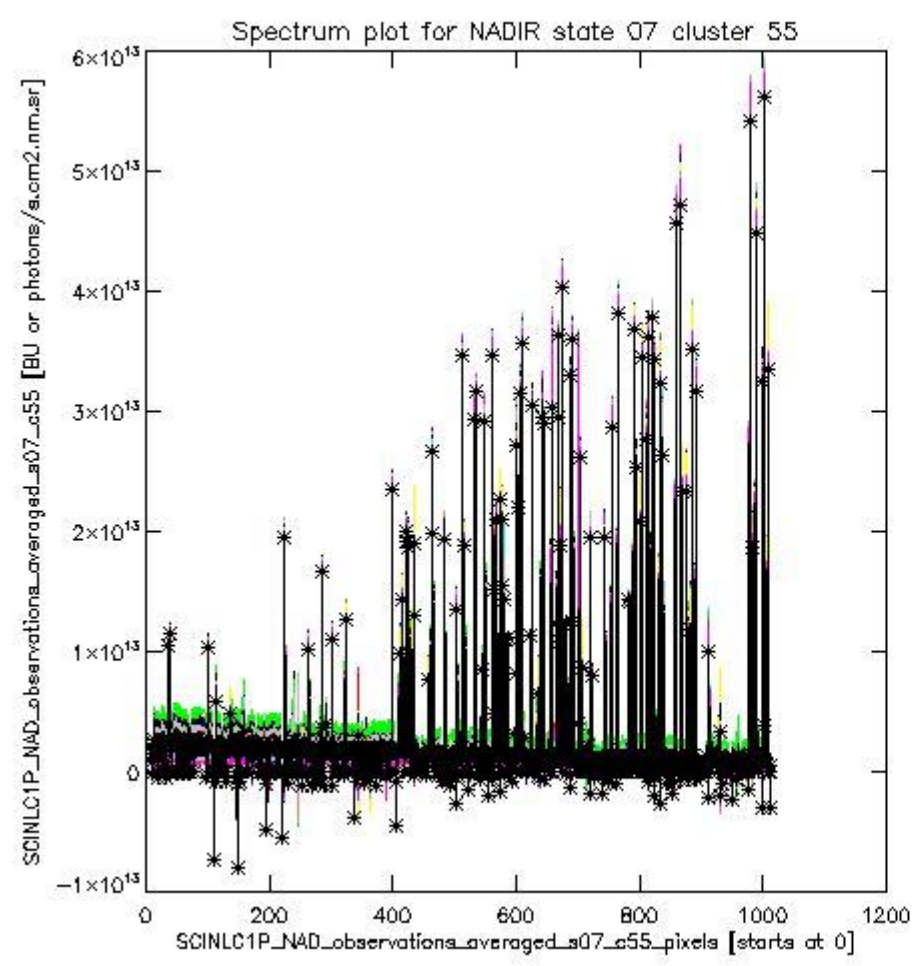
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110128_6.PNG



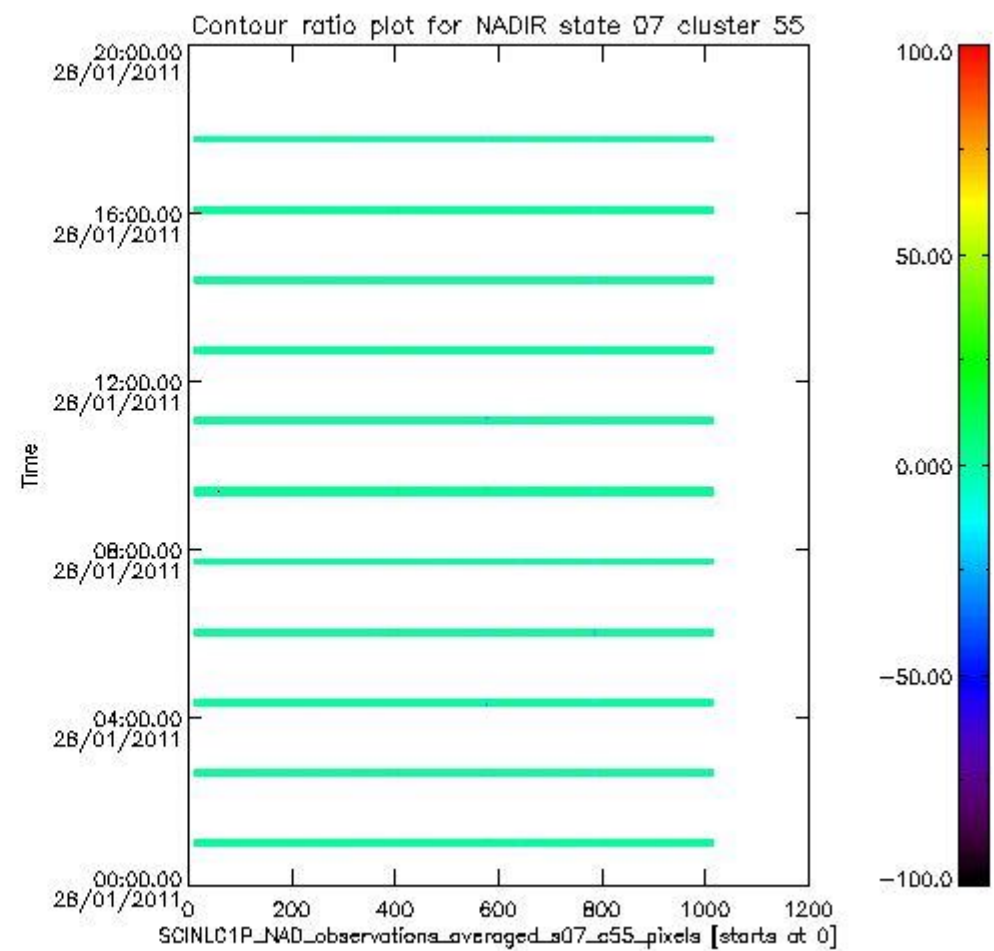
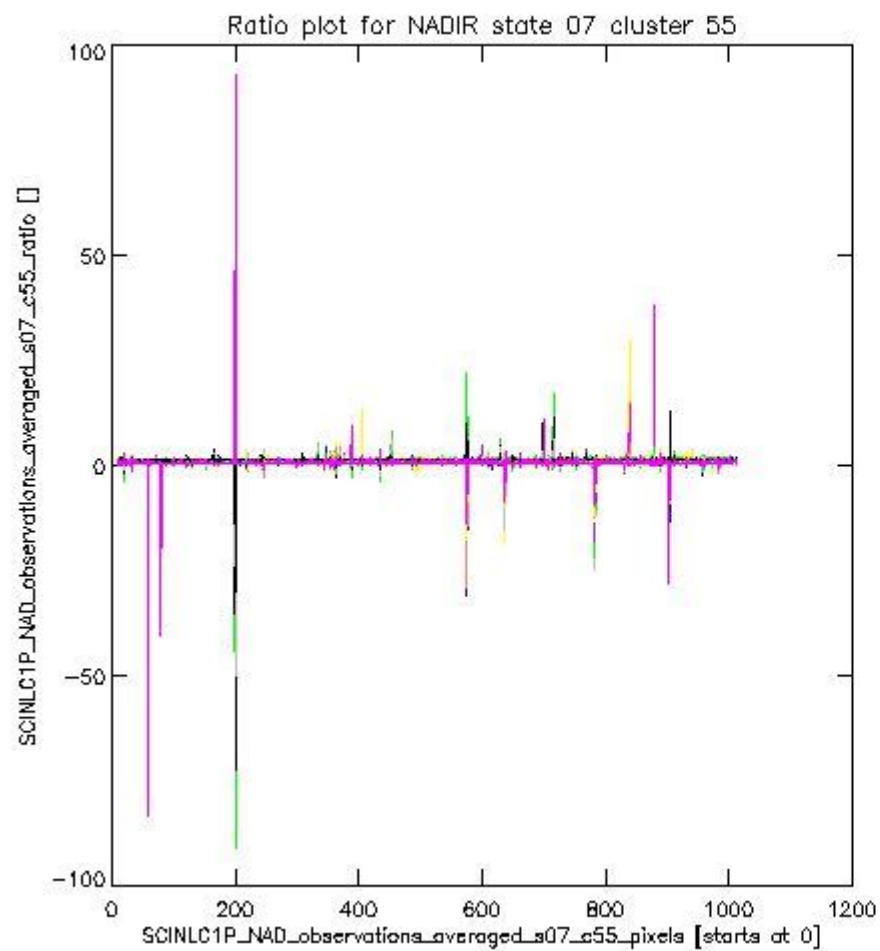
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110128_7.PNG

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	28JAN2011 00:56:30.085
Start time of last sample	28JAN2011 17:46:57.307
Reference period start time	29DEC2010 00:56:31.536
Reference period stop time	27JAN2011 15:03:19.186
Channel number	8
First pixel number (starts at 0)	10
Last pixel number (starts at 0)	1013



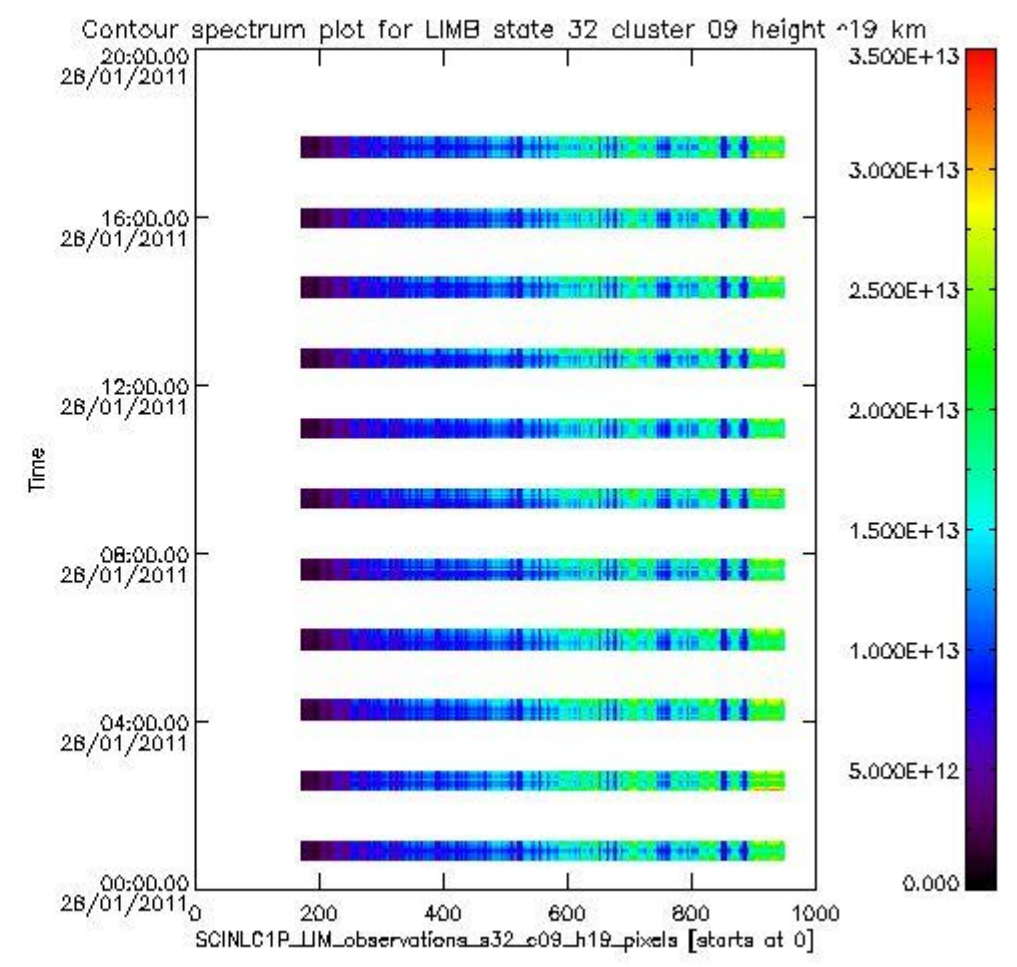
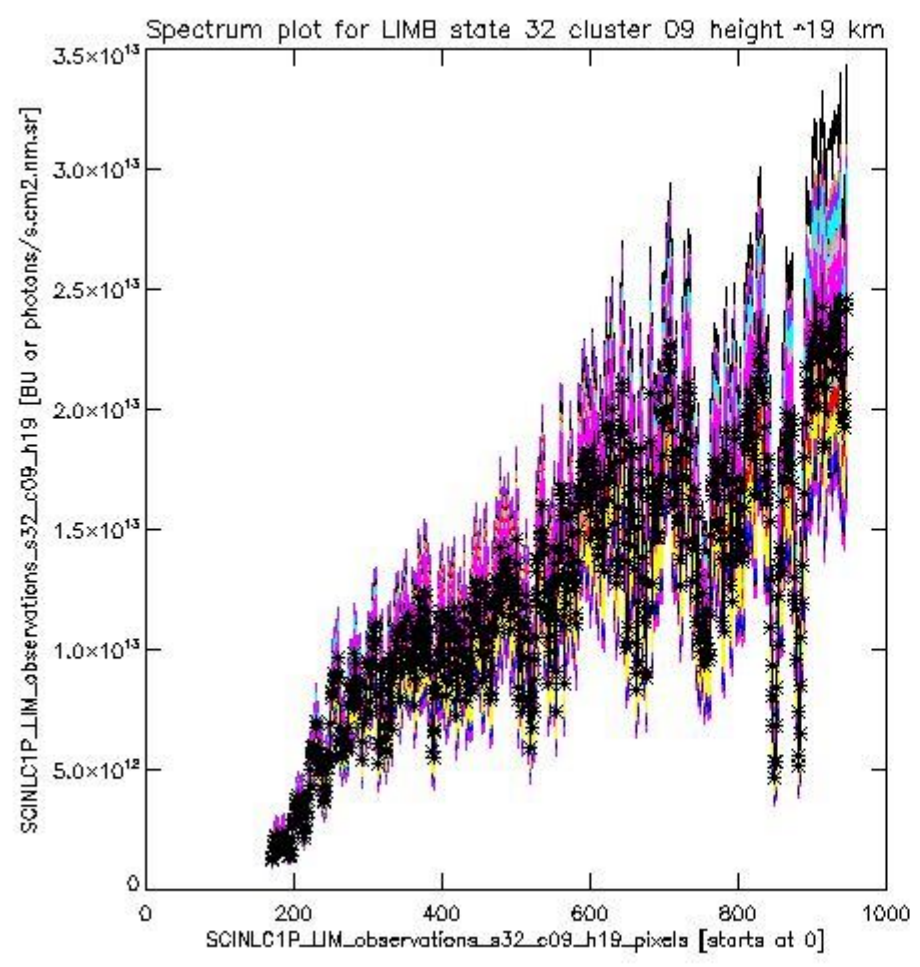
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110128_8.PNG



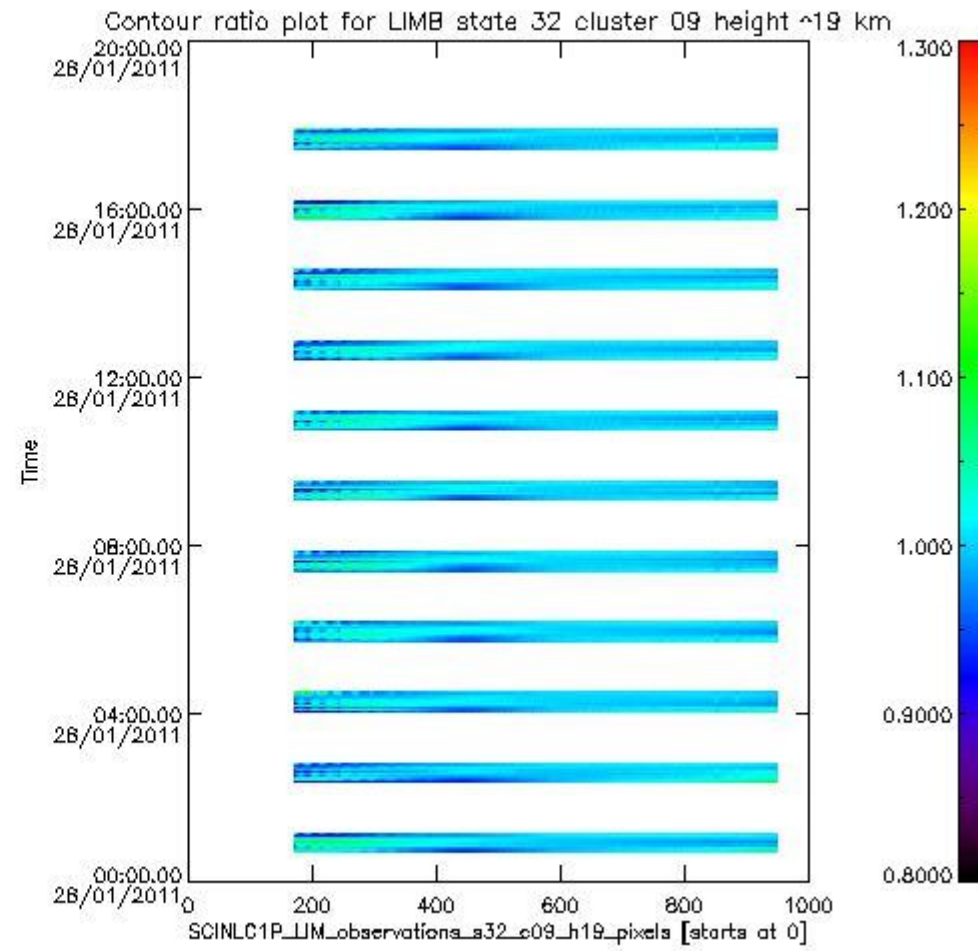
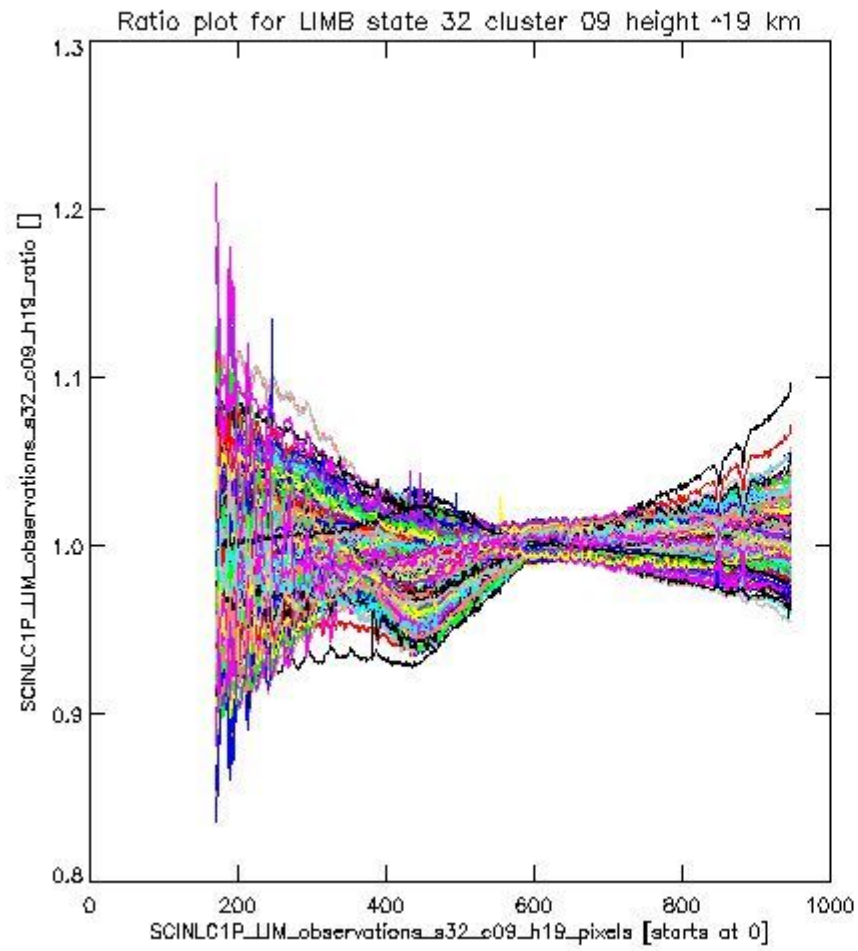
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110128_9.PNG

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	28JAN2011 00:41:16.706
Start time of last sample	28JAN2011 17:52:11.351
Reference period start time	29DEC2010 00:43:20.899
Reference period stop time	27JAN2011 15:08:33.229
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	947



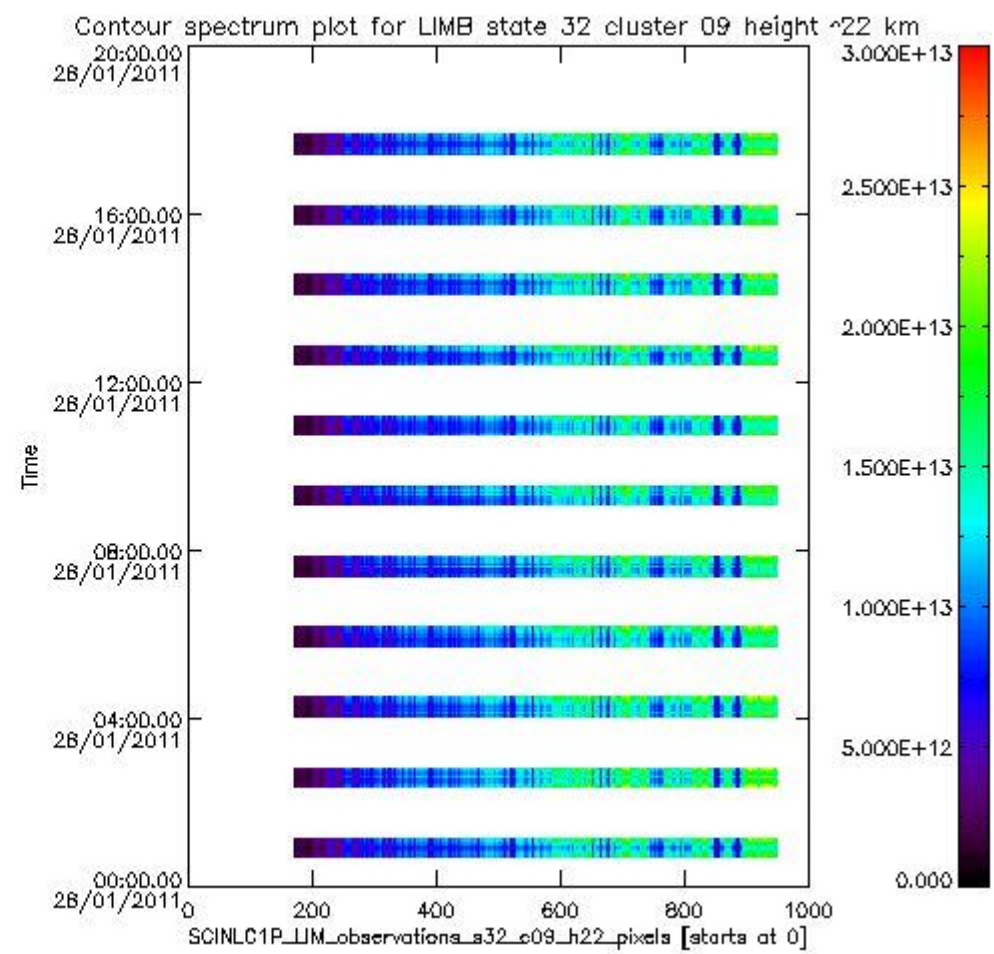
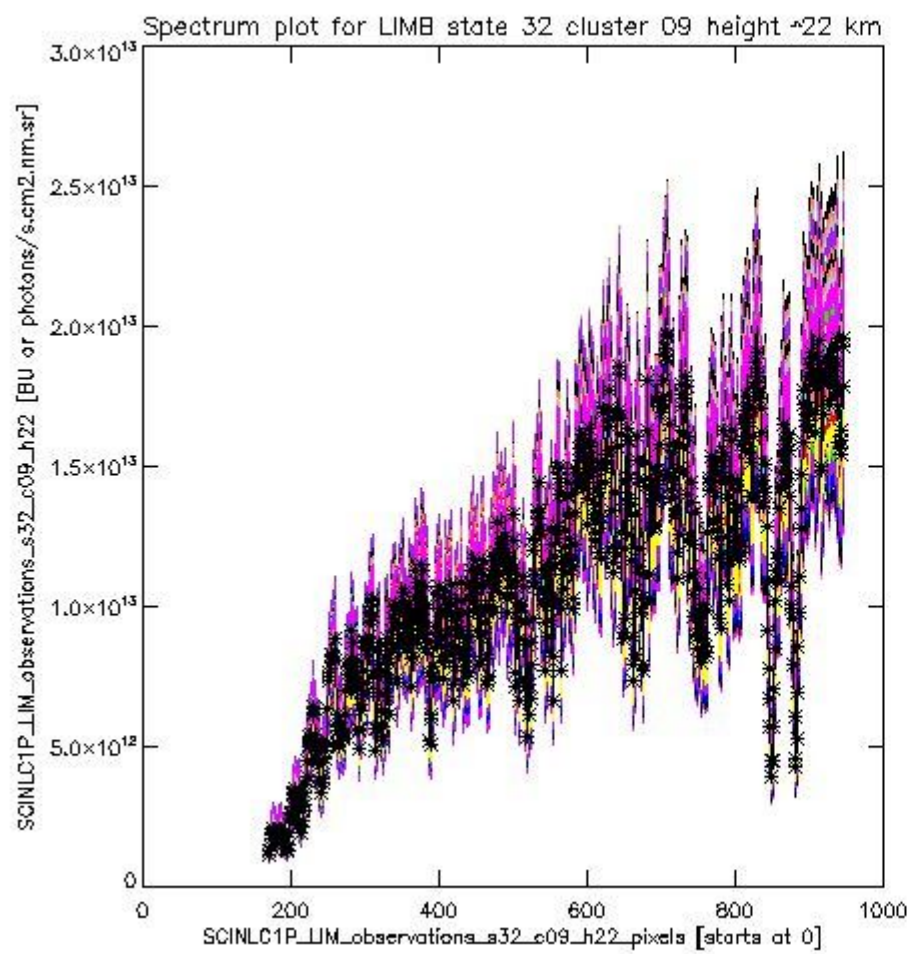
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110128_10.PNG



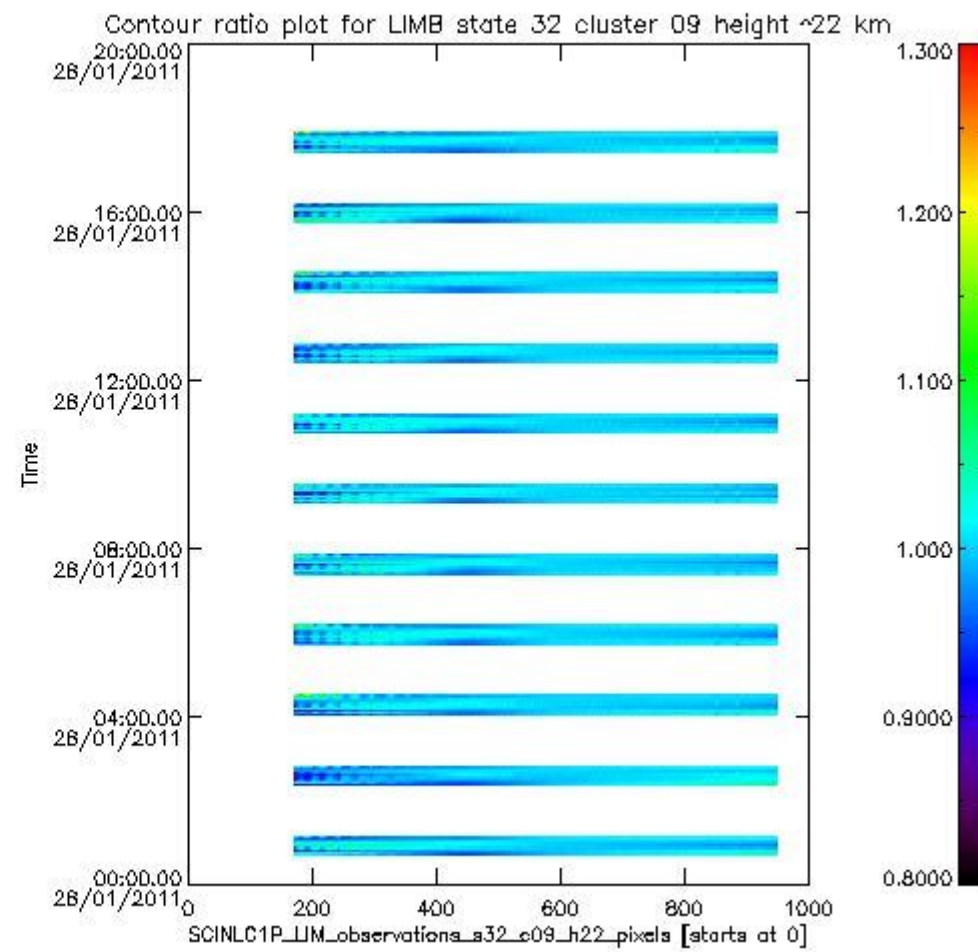
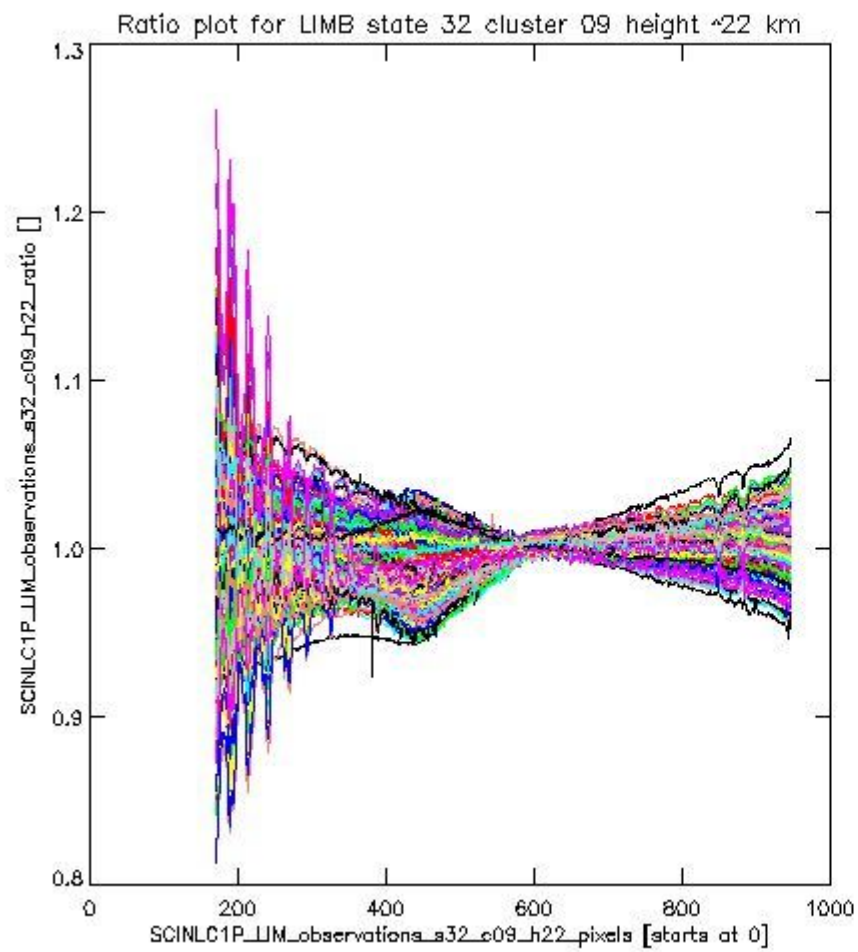
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110128_11.PNG

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	28JAN2011 00:41:16.706
Start time of last sample	28JAN2011 17:52:11.351
Reference period start time	29DEC2010 00:43:20.899
Reference period stop time	27JAN2011 15:08:33.229
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	947



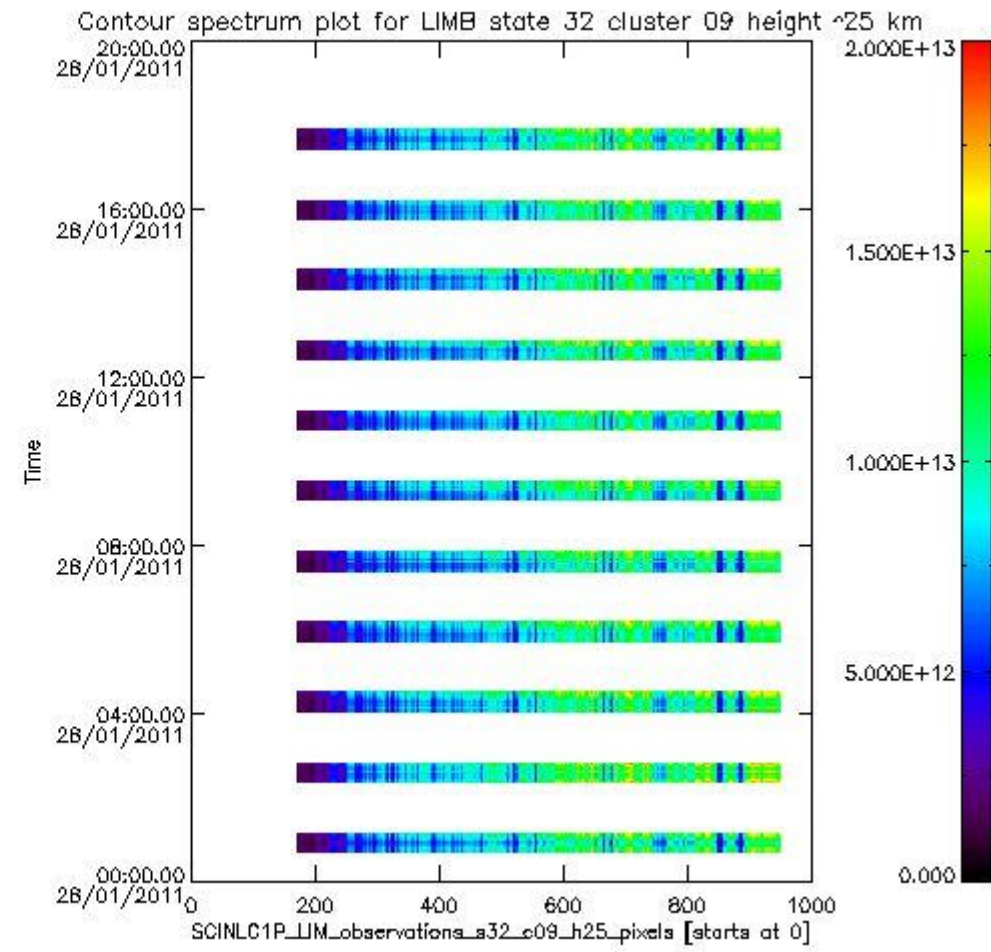
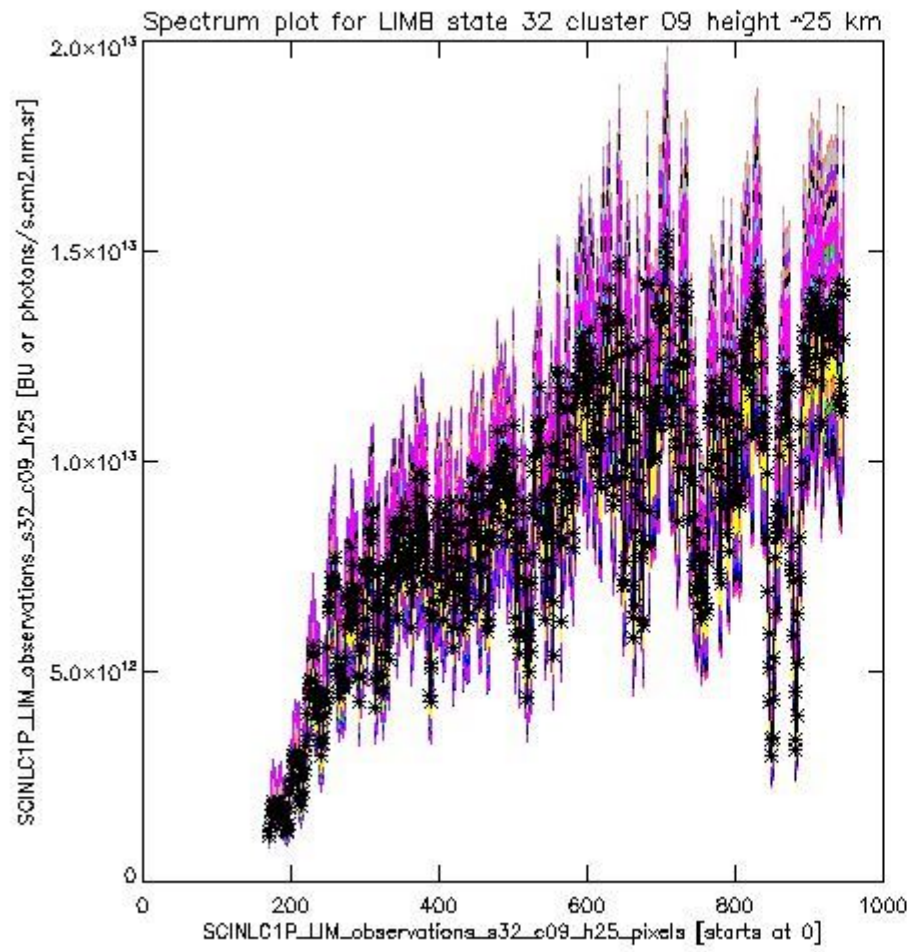
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110128_12.PNG



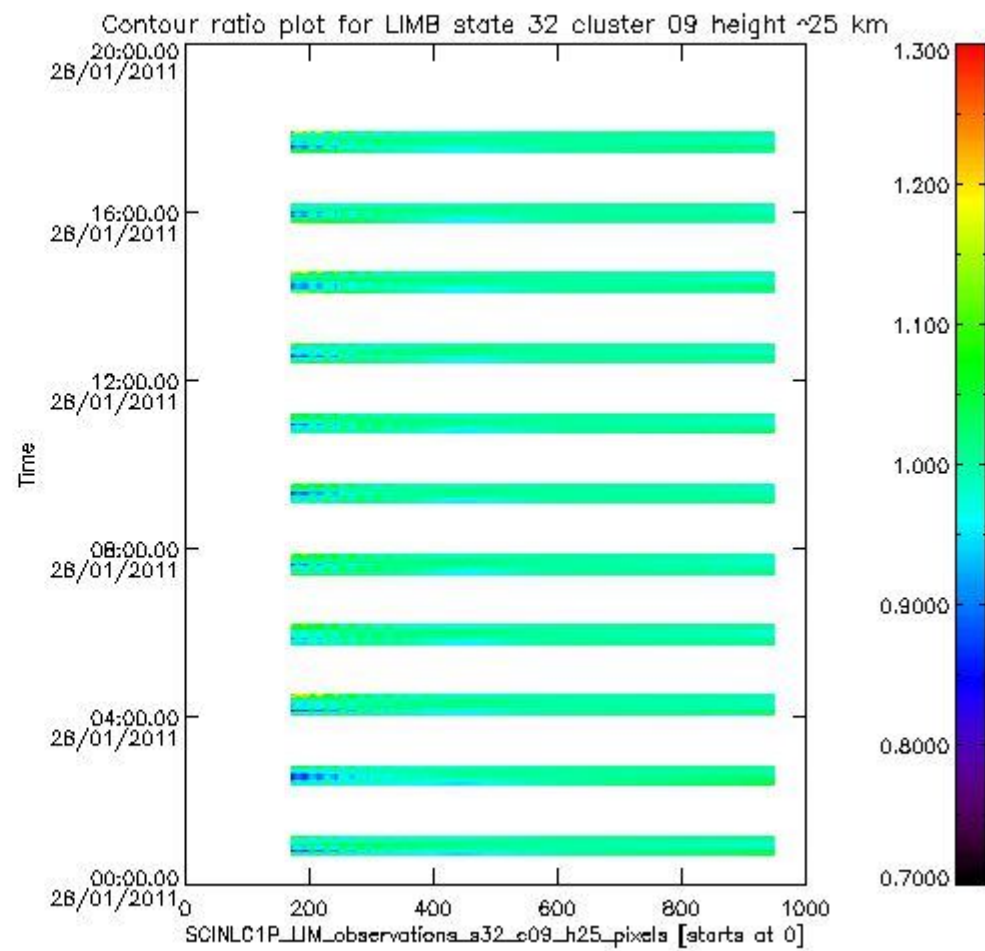
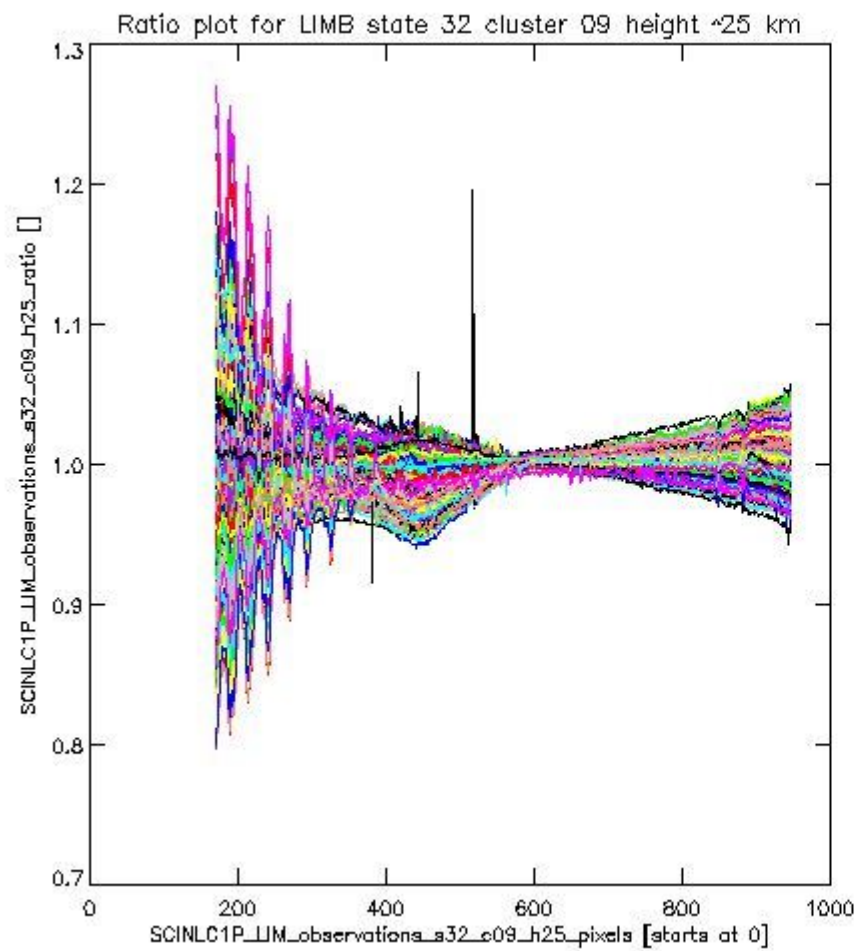
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110128_13.PNG

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	28JAN2011 00:41:16.706
Start time of last sample	28JAN2011 17:52:11.351
Reference period start time	29DEC2010 00:43:20.899
Reference period stop time	27JAN2011 15:08:33.229
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	947



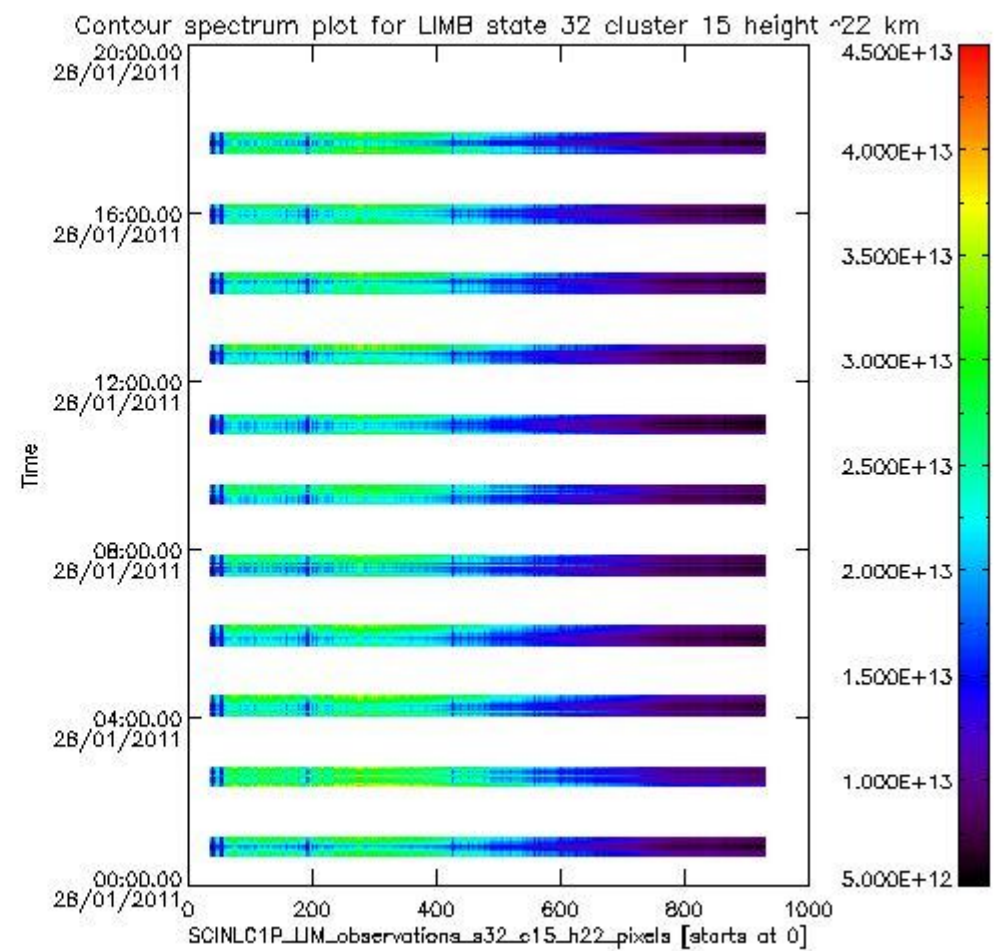
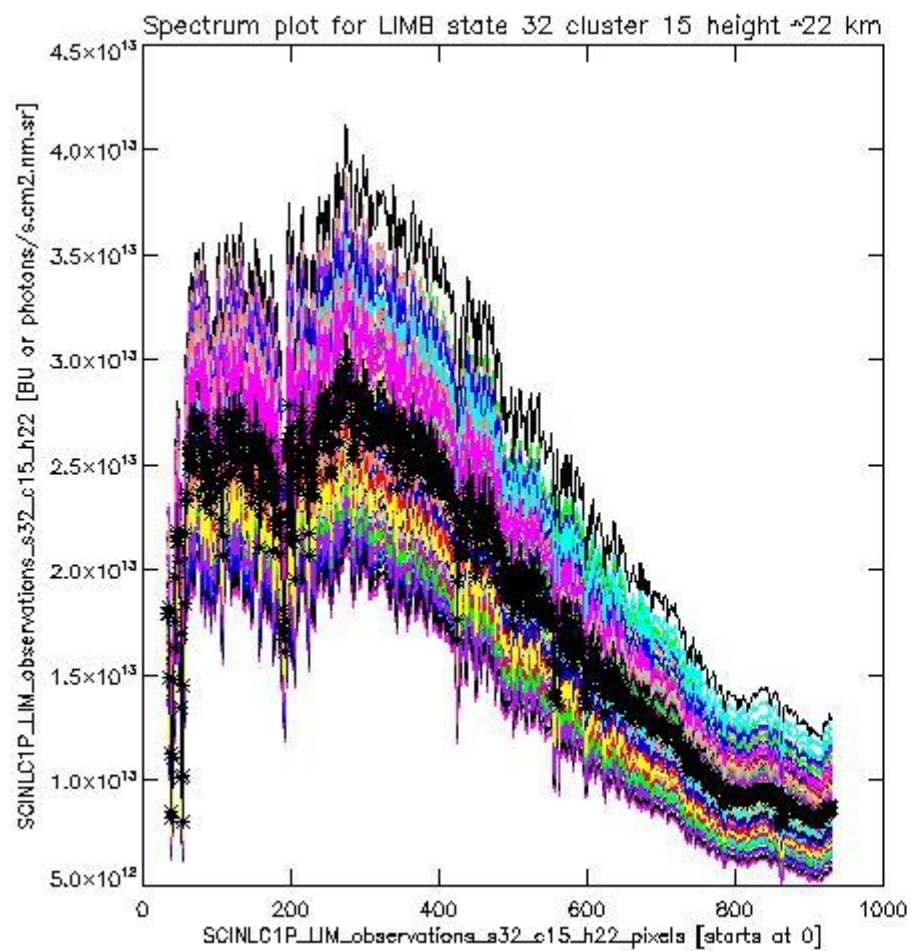
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110128_14.PNG



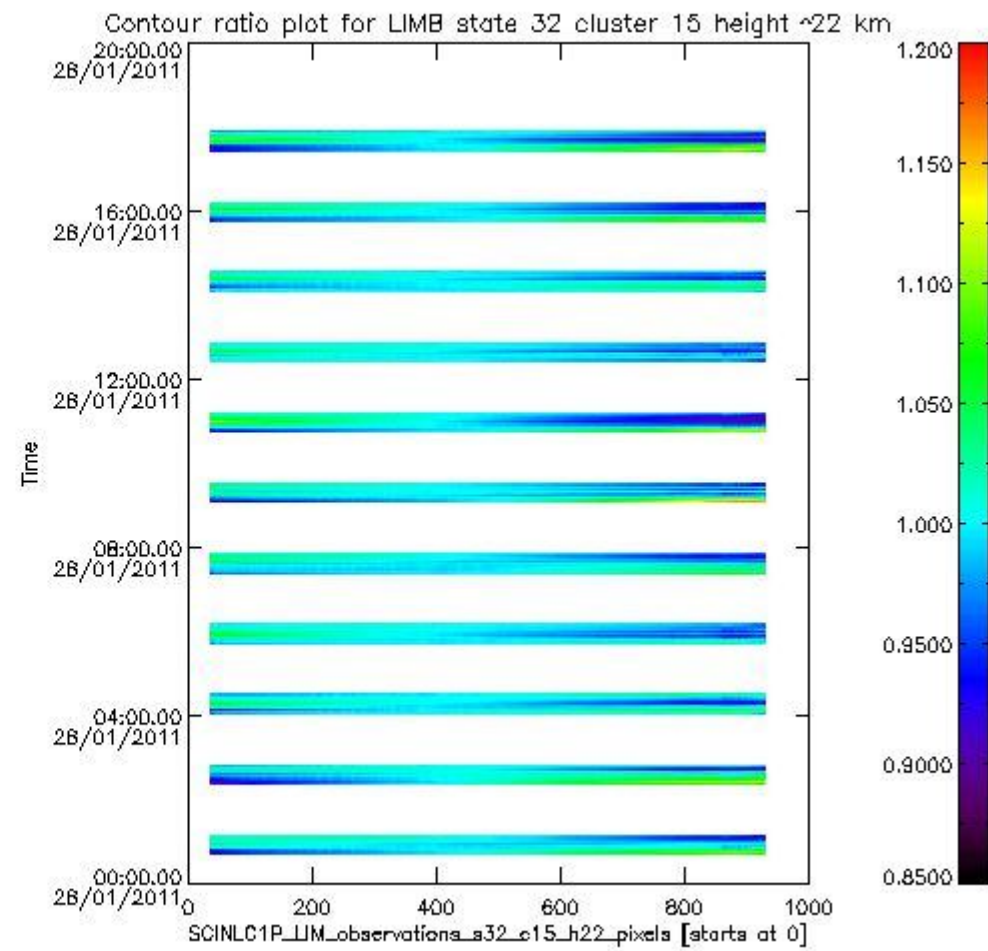
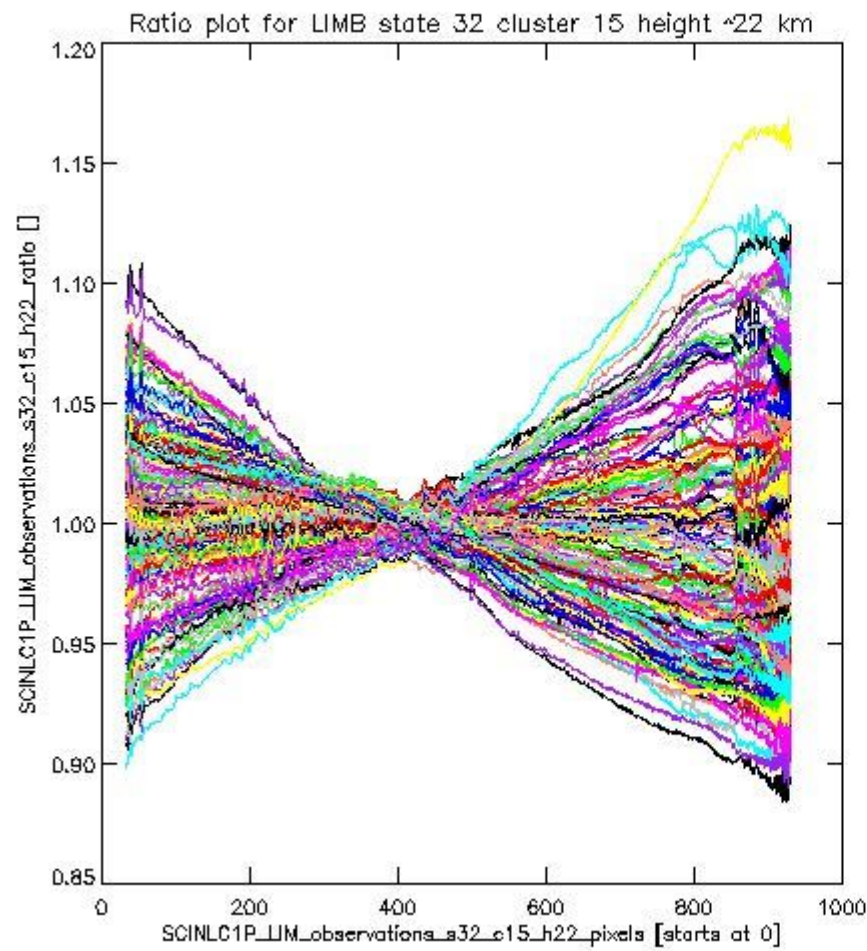
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110128_15.PNG

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	28JAN2011 00:41:16.706
Start time of last sample	28JAN2011 17:52:11.351
Reference period start time	29DEC2010 00:43:20.899
Reference period stop time	27JAN2011 15:08:33.229
Channel number	3
First pixel number (starts at 0)	33
Last pixel number (starts at 0)	929



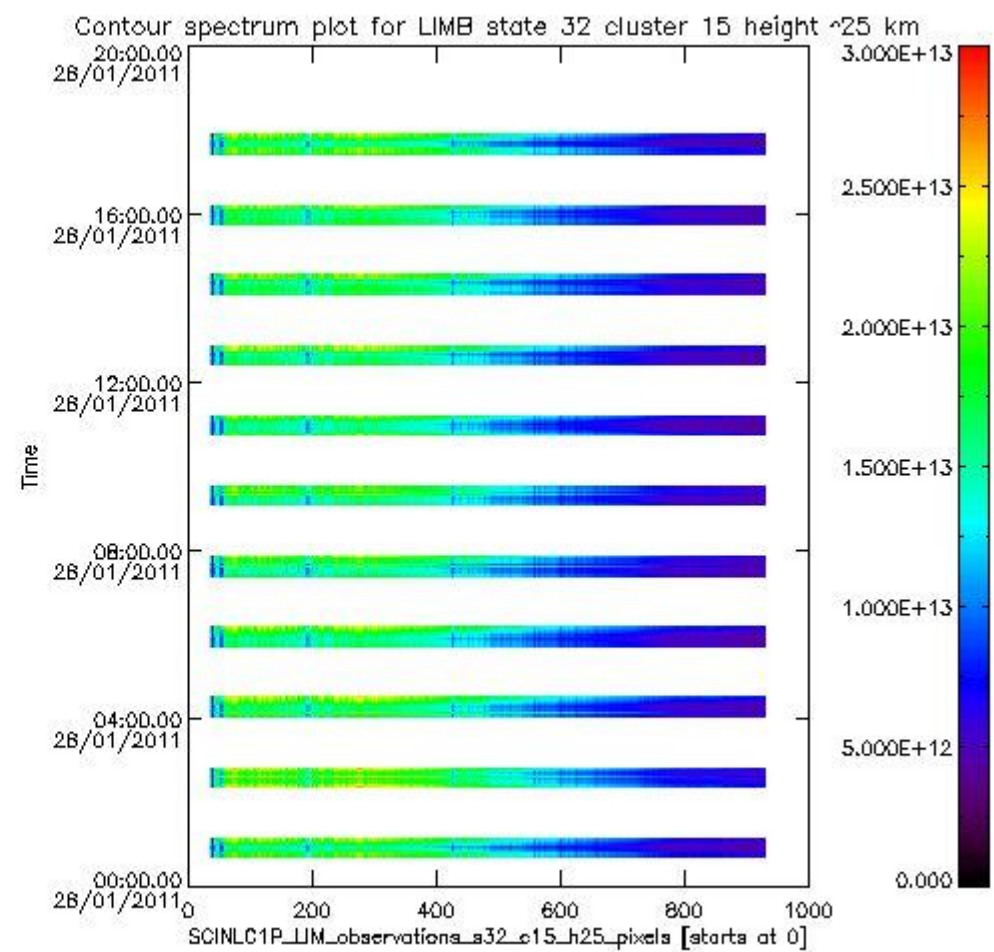
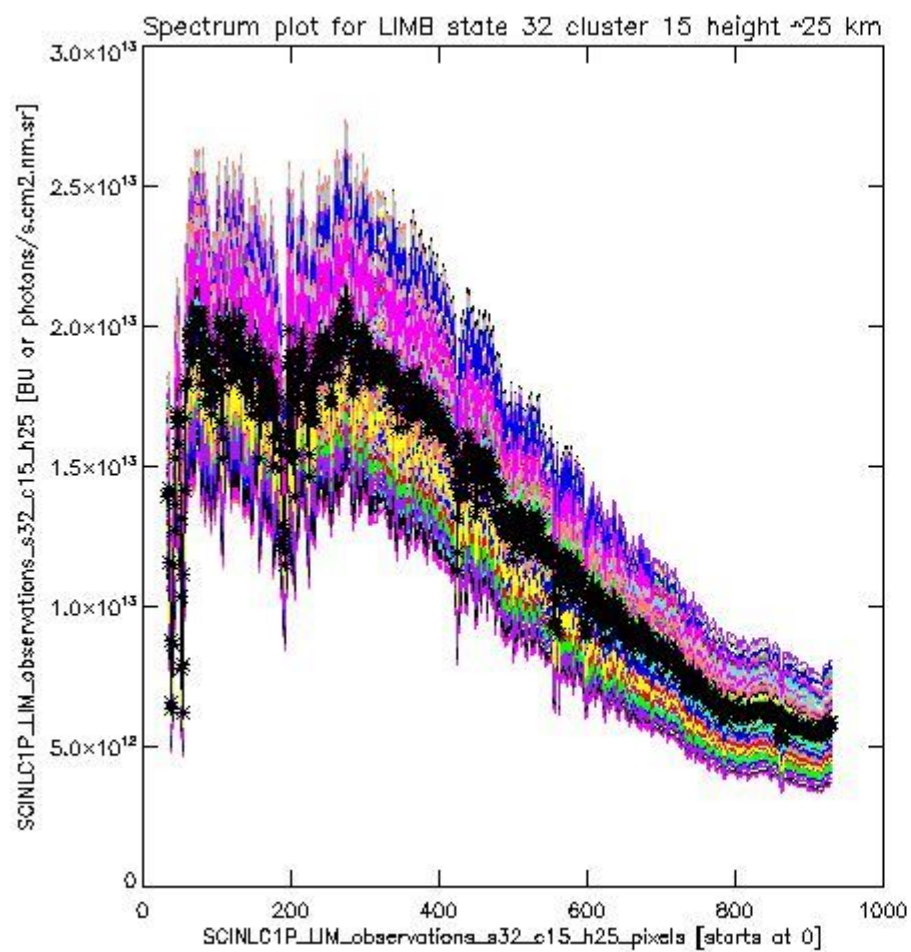
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110128_16.PNG



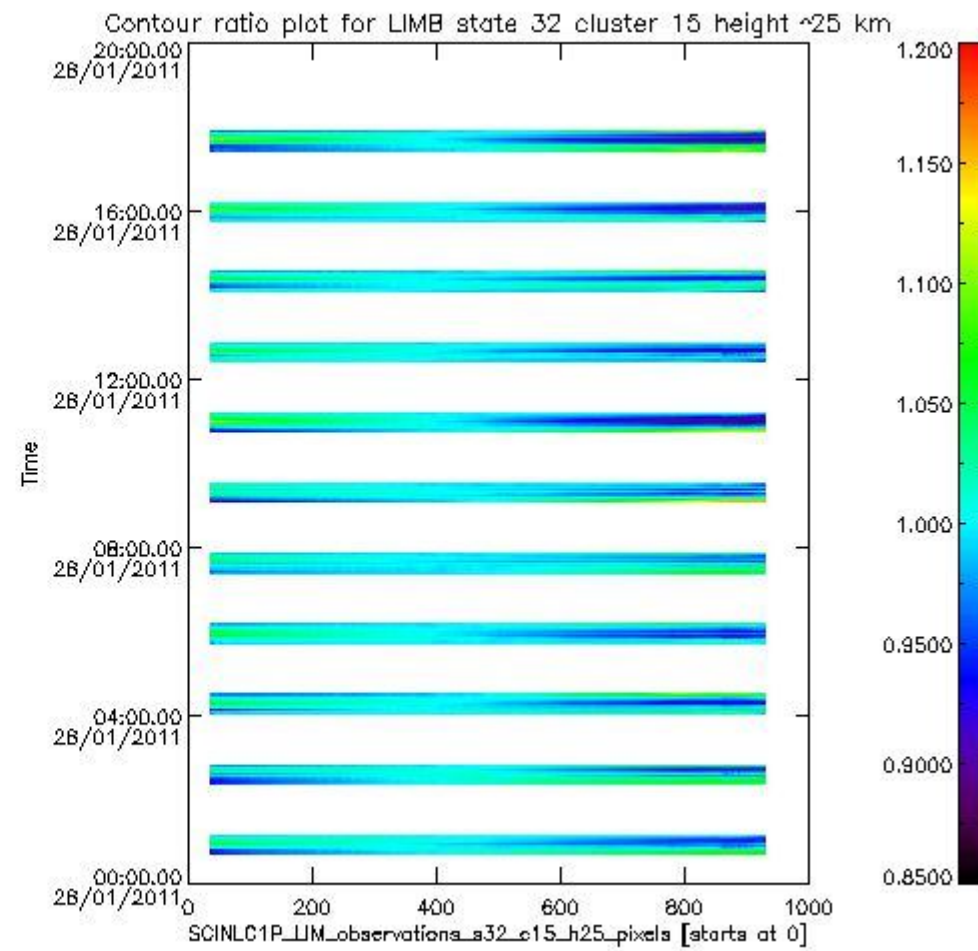
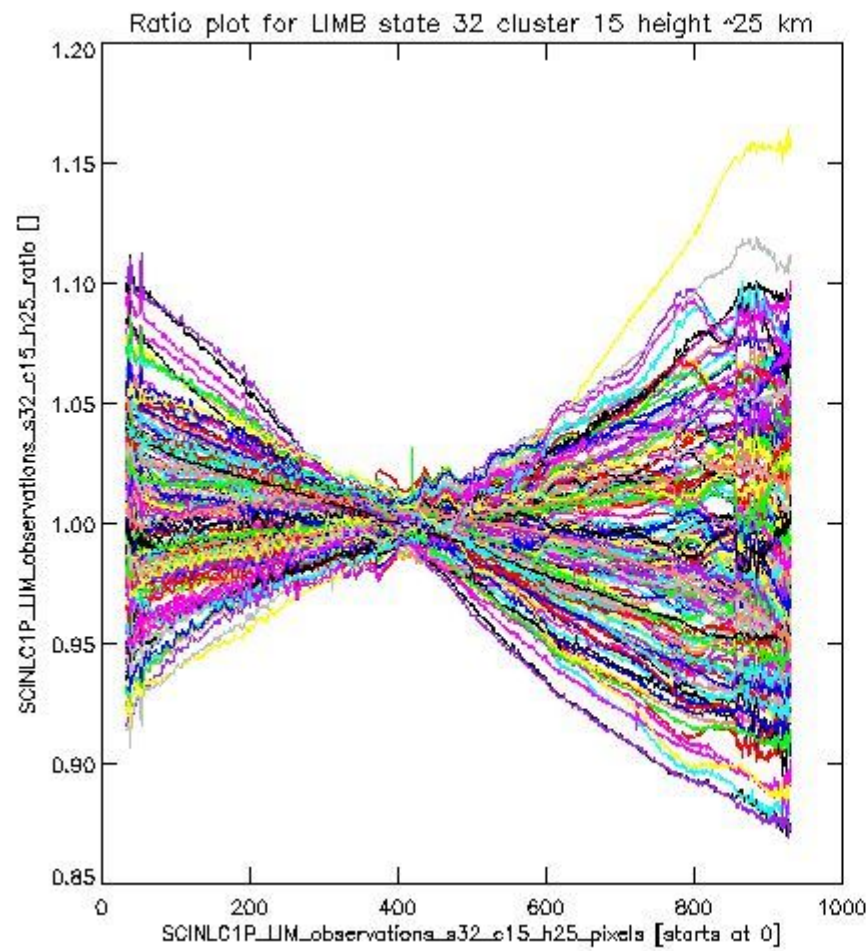
sciamachy_11b_source_packet_report_SCIA_7_04_U_20110128_17.PNG

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	28JAN2011 00:41:16.706
Start time of last sample	28JAN2011 17:52:11.351
Reference period start time	29DEC2010 00:43:20.899
Reference period stop time	27JAN2011 15:08:33.229
Channel number	3
First pixel number (starts at 0)	33
Last pixel number (starts at 0)	929



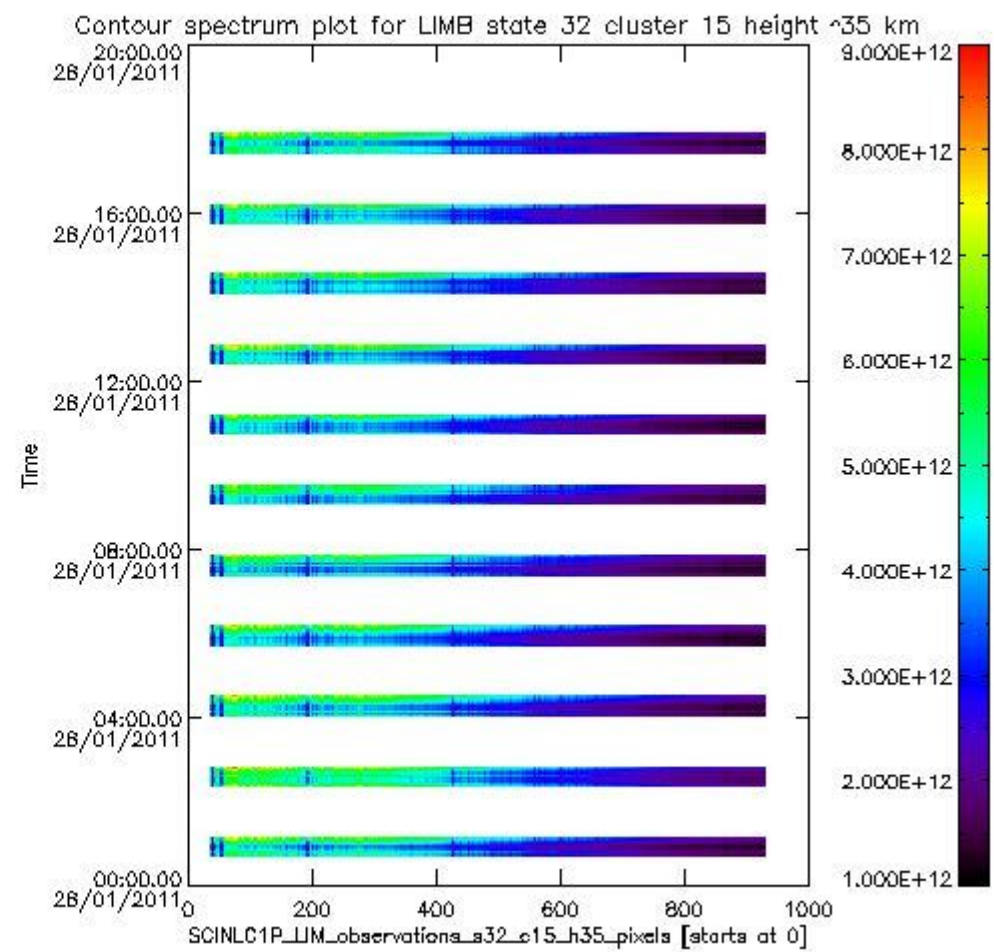
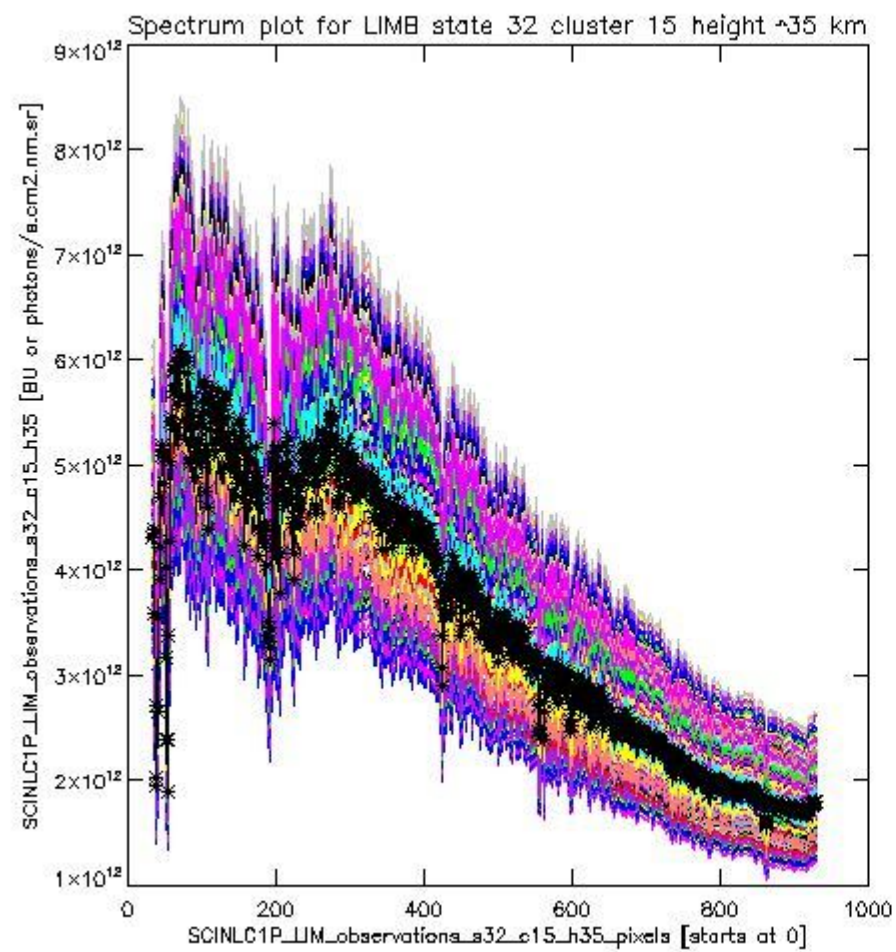
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110128_18.PNG



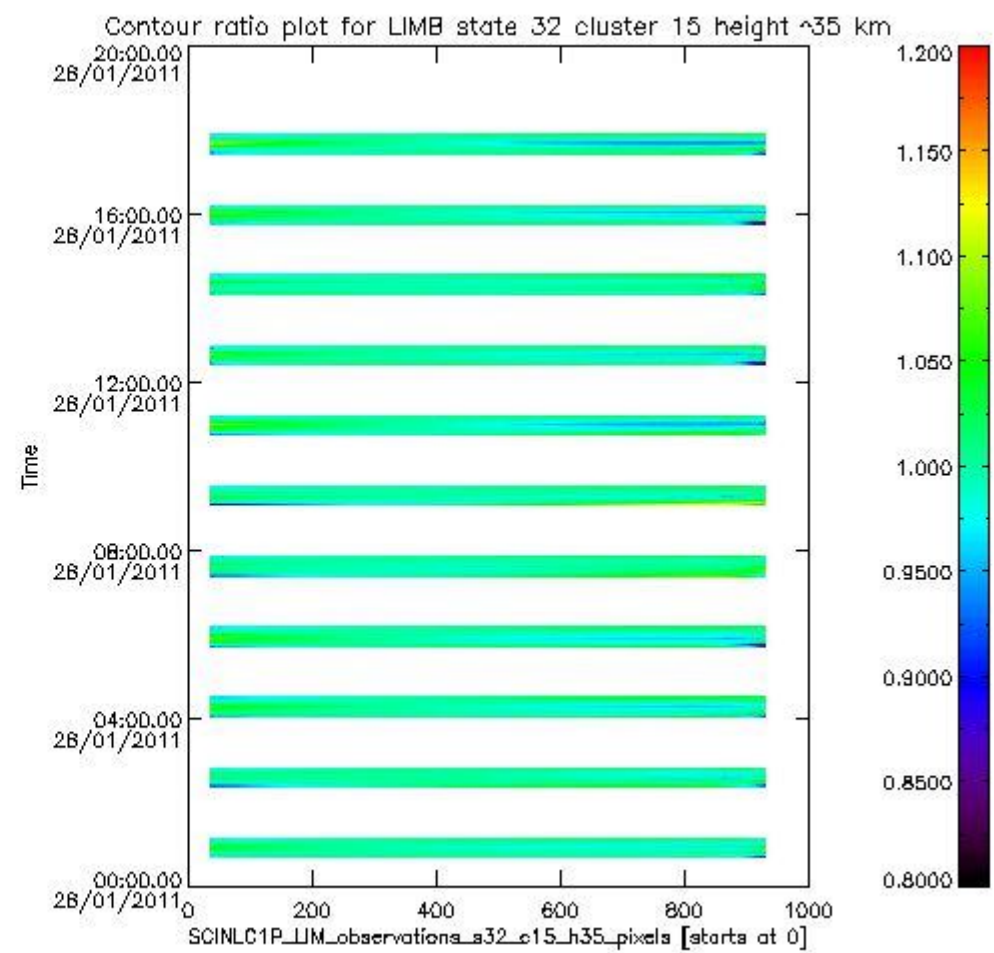
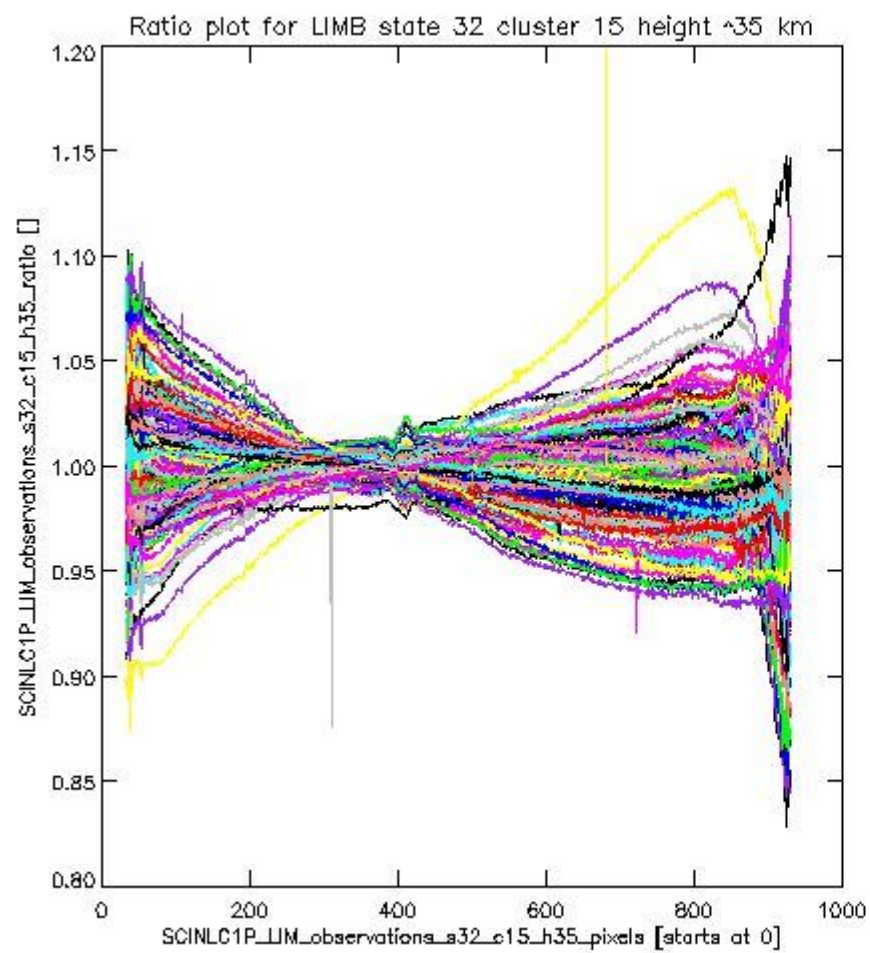
sciamachy_11b_source_packet_report_SCIA_7_04_U_20110128_19.PNG

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	28JAN2011 00:41:16.706
Start time of last sample	28JAN2011 17:52:11.351
Reference period start time	29DEC2010 00:43:20.899
Reference period stop time	26JAN2011 14:04:00.155
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_20110128_20.PNG



sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110128_21.PNG

