

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	22JAN2011 06:55:31
Data source version	SCIA/7.04-U
Processing scope for products	11JAN2011 00:00:00 to 12JAN2011 00:00:00
Start time of first product within scope	10JAN2011 23:07:23
Stop time of last product within scope	12JAN2011 01:21:18
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	11JAN2011 01:20:48.093	11JAN2011 23:12:52.259
1	NADIR	07	09	N/A	11JAN2011 01:20:48.093	11JAN2011 23:12:52.259
2	NADIR	07	15	N/A	11JAN2011 01:20:48.093	11JAN2011 23:12:52.259
3	NADIR	07	24	N/A	11JAN2011 01:20:48.093	11JAN2011 23:12:52.259
4	NADIR	07	55	N/A	11JAN2011 01:20:48.093	11JAN2011 23:12:52.259
5	LIMB	32	09	~19 km	11JAN2011 01:05:34.714	11JAN2011 23:16:03.564
6	LIMB	32	09	~22 km	11JAN2011 01:05:34.714	11JAN2011 23:16:03.564
7	LIMB	32	09	~25 km	11JAN2011 01:05:34.714	11JAN2011 23:16:03.564
8	LIMB	32	15	~22 km	11JAN2011 01:05:34.714	11JAN2011 23:16:03.564
9	LIMB	32	15	~25 km	11JAN2011 01:05:34.714	11JAN2011 23:16:03.564
10	LIMB	32	15	~35 km	11JAN2011 01:05:34.714	11JAN2011 23:16:03.564

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_1CUDPA20110110_224944_000060103098_00217_46352_1634.N1	10JAN2011 23:07:23	11JAN2011 00:14:12	0	32	31	0	0	2	0	0	
1	SCI_NLC_1CUDPA20110111_002959_000060093098_00218_46353_1643.N1	11JAN2011 00:47:36	11JAN2011 01:58:05	0	36	30	0	0	1	0	0	
2	SCI_NLC_1CUDPA20110111_021012_000060103098_00219_46354_1645.N1	11JAN2011 02:27:50	11JAN2011 03:38:05	0	35	31	0	0	1	0	0	
3	SCI_NLC_1CUDPA20110111_035026_000060093098_00220_46355_1636.N1	11JAN2011 04:08:04	11JAN2011 05:18:33	0	36	30	0	0	1	0	0	
4	SCI_NLC_1CUDPA20110111_053040_000060103098_00221_46356_1638.N1	11JAN2011 05:48:18	11JAN2011 06:58:32	0	35	31	0	0	1	0	0	
5	SCI_NLC_1CUDPA20110111_071054_000060093098_00222_46357_1644.N1	11JAN2011 07:28:32	11JAN2011 08:39:01	0	36	30	0	0	1	0	0	

6	SCI_NLC_1CUDPA20110111_085108_000060103098_00223_46358_1647.N1	11JAN2011 09:08:45	11JAN2011 10:19:00	0	35	31	0	0	1	0	0	
7	SCI_NLC_1CUDPA20110111_103122_000060093098_00224_46359_1649.N1	11JAN2011 10:48:59	11JAN2011 11:59:28	0	36	30	0	0	1	0	0	
8	SCI_NLC_1CUDPA20110111_121209_000059773098_00225_46360_1650.N1	11JAN2011 12:29:13	11JAN2011 13:39:27	0	35	31	0	0	1	0	0	
9	SCI_NLC_1CUDPA20110111_135149_000060433098_00226_46361_1652.N1	11JAN2011 14:09:27	11JAN2011 15:19:56	0	36	30	0	0	1	0	0	
10	SCI_NLC_1CUDPA20110111_153236_000059773098_00227_46362_1654.N1	11JAN2011 15:49:40	11JAN2011 16:59:55	0	35	31	0	0	1	0	0	
11	SCI_NLC_1CUDPA20110111_171301_000059993098_00228_46363_1657.N1	11JAN2011 17:29:54	11JAN2011 18:40:44	0	36	30	0	1	1	0	0	
12	SCI_NLC_1CUDPA20110111_185304_000060213098_00229_46364_1659.N1	11JAN2011 19:10:08	11JAN2011 20:20:43	0	35	31	0	1	1	0	0	
13	SCI_NLC_1CUDPA20110111_203329_000059993098_00230_46365_1660.N1	11JAN2011 20:50:22	11JAN2011 22:00:51	0	36	30	0	0	1	0	0	
14	SCI_NLC_1CUDPA20110111_221332_000059773098_00231_46366_1663.N1	11JAN2011 22:30:35	11JAN2011 23:40:50	0	35	31	0	0	1	0	0	
15	SCI_NLC_1CUDPA20110111_235357_000059993098_00232_46367_1664.N1	12JAN2011 00:10:49	12JAN2011 01:21:18	0	36	30	0	0	1	0	0	

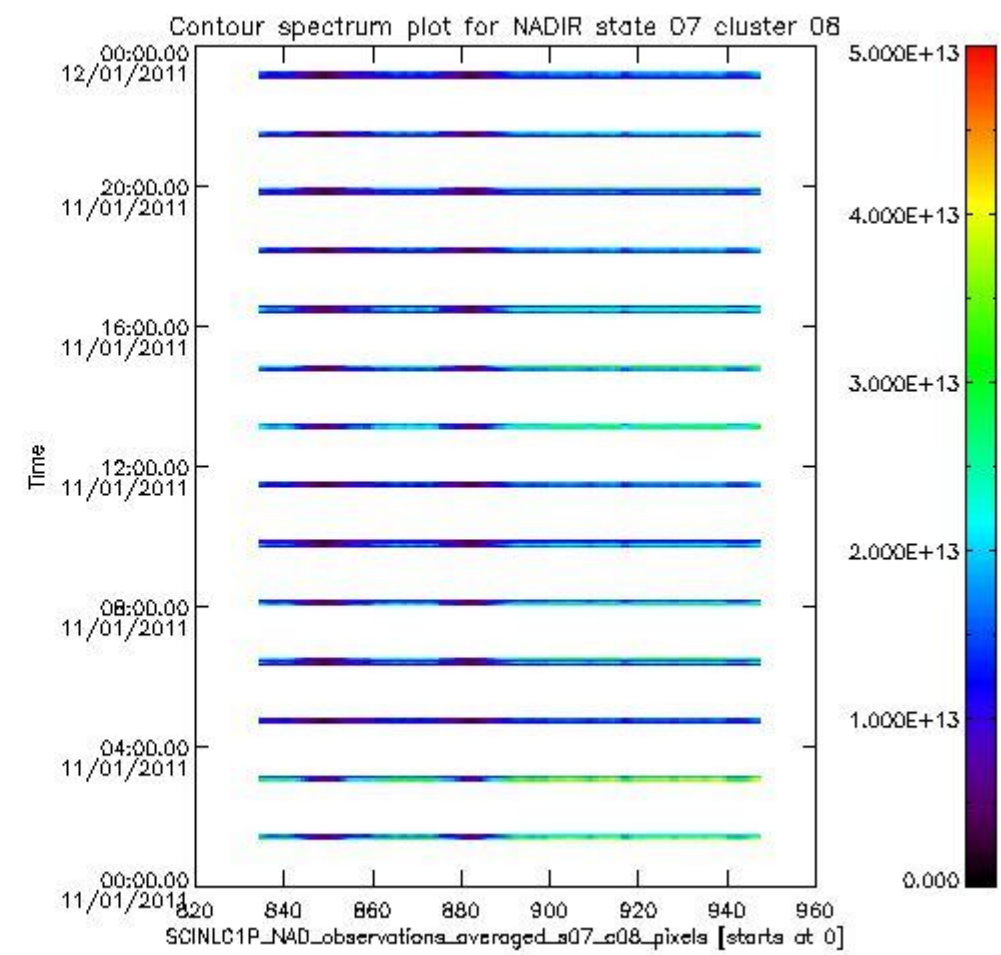
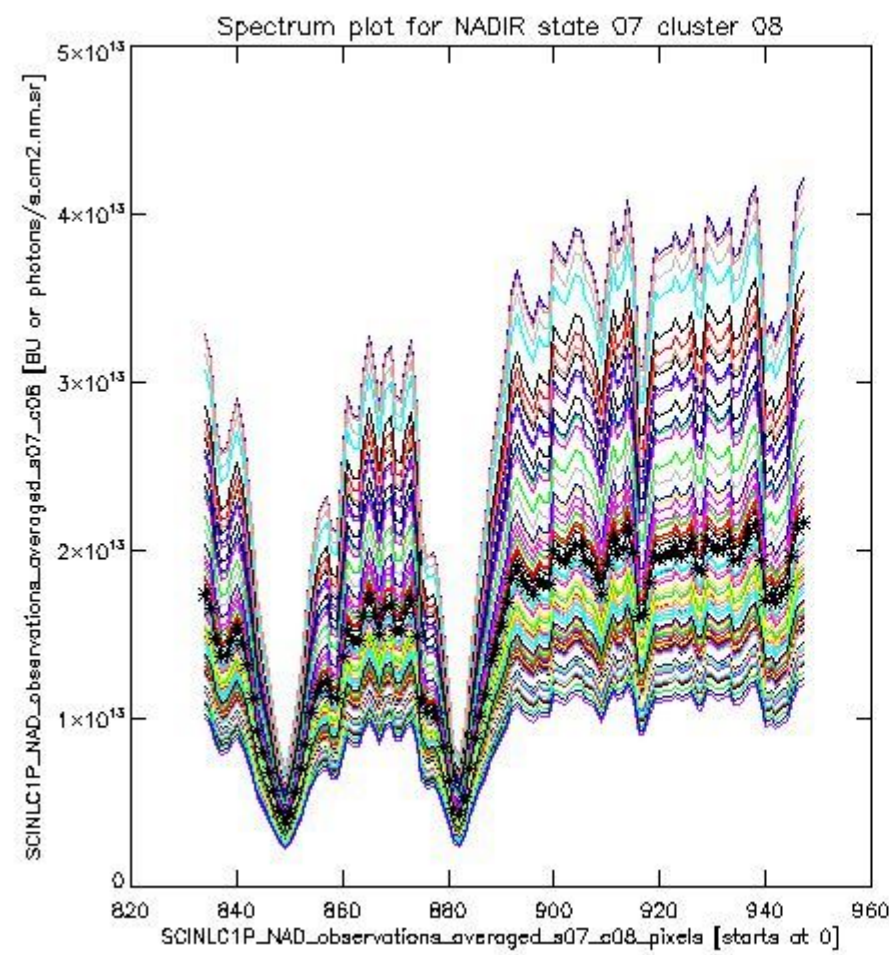
1.2 Source packet monitoring

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:

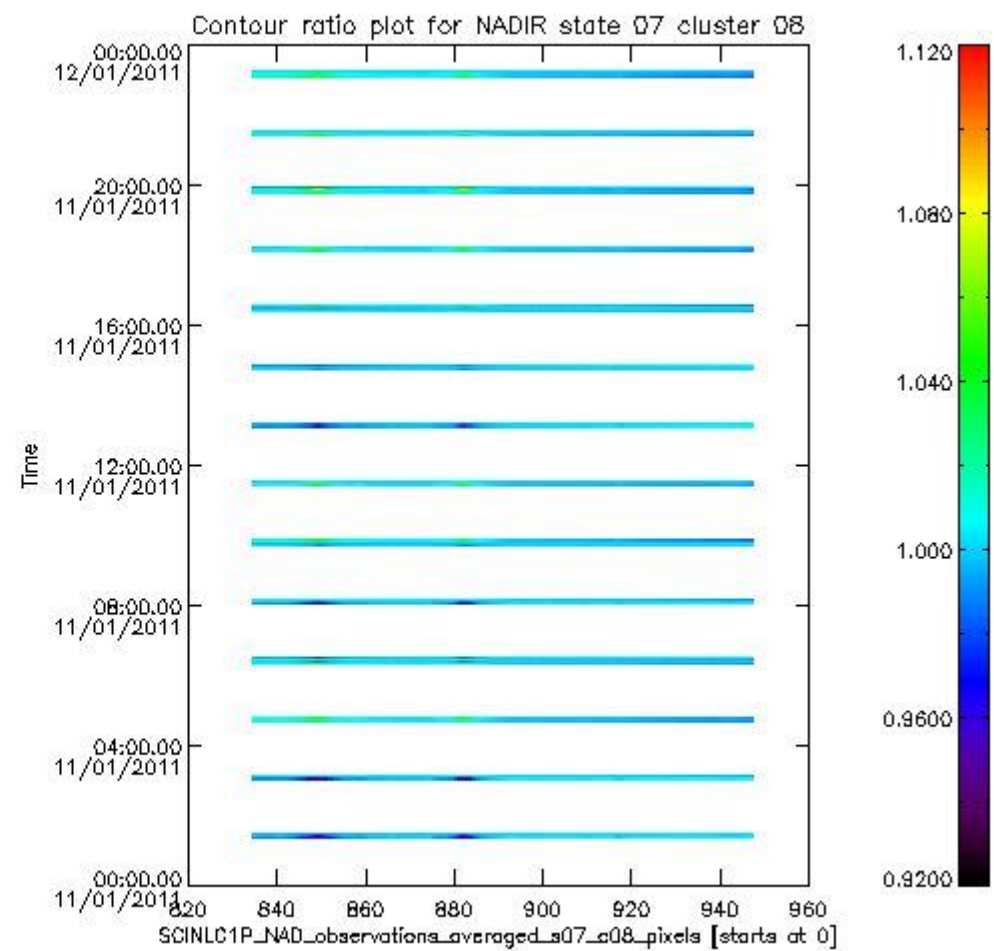
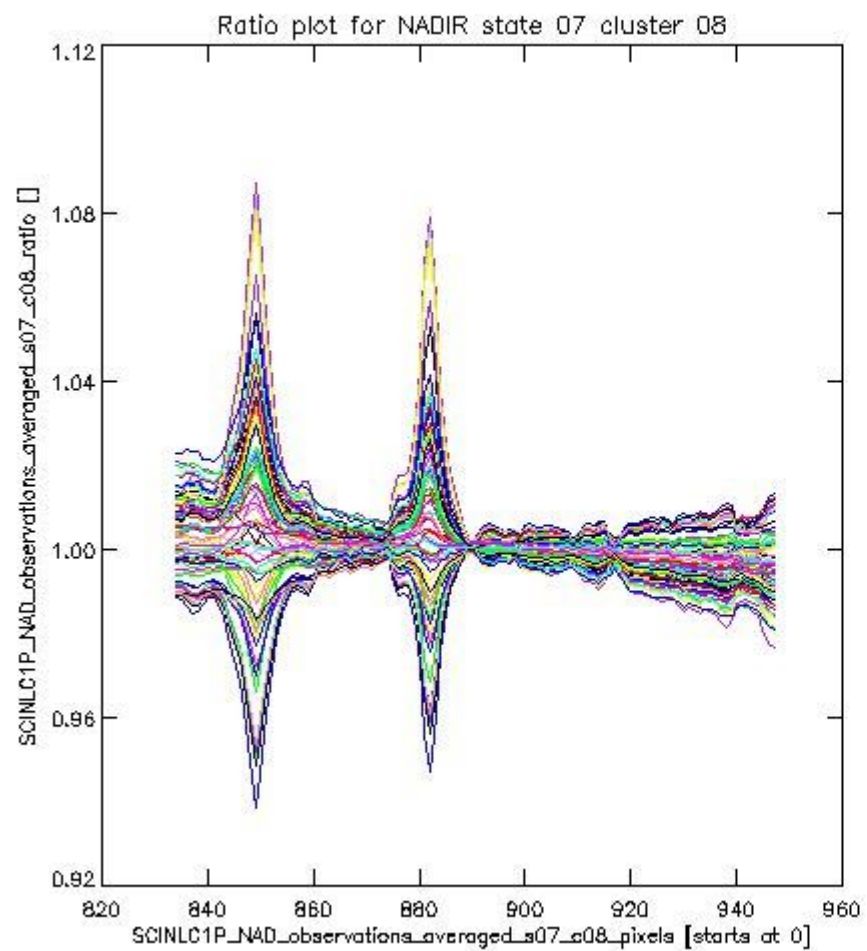
- A plot that shows all calibrated averaged spectra vs. pixel number as 2D-profiles. Each line is an average spectrum for a single state occurrence. For Limb modes, the average is performed on spectra recorded at a specific height. The reference spectrum that is used for comparison is also shown as a 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	11JAN2011 01:20:48.093
Start time of last sample	11JAN2011 23:12:52.259
Reference period start time	12DEC2010 01:19:33.705
Reference period stop time	10JAN2011 23:49:39.526
Channel number	2
First pixel number (starts at 0)	834
Last pixel number (starts at 0)	947



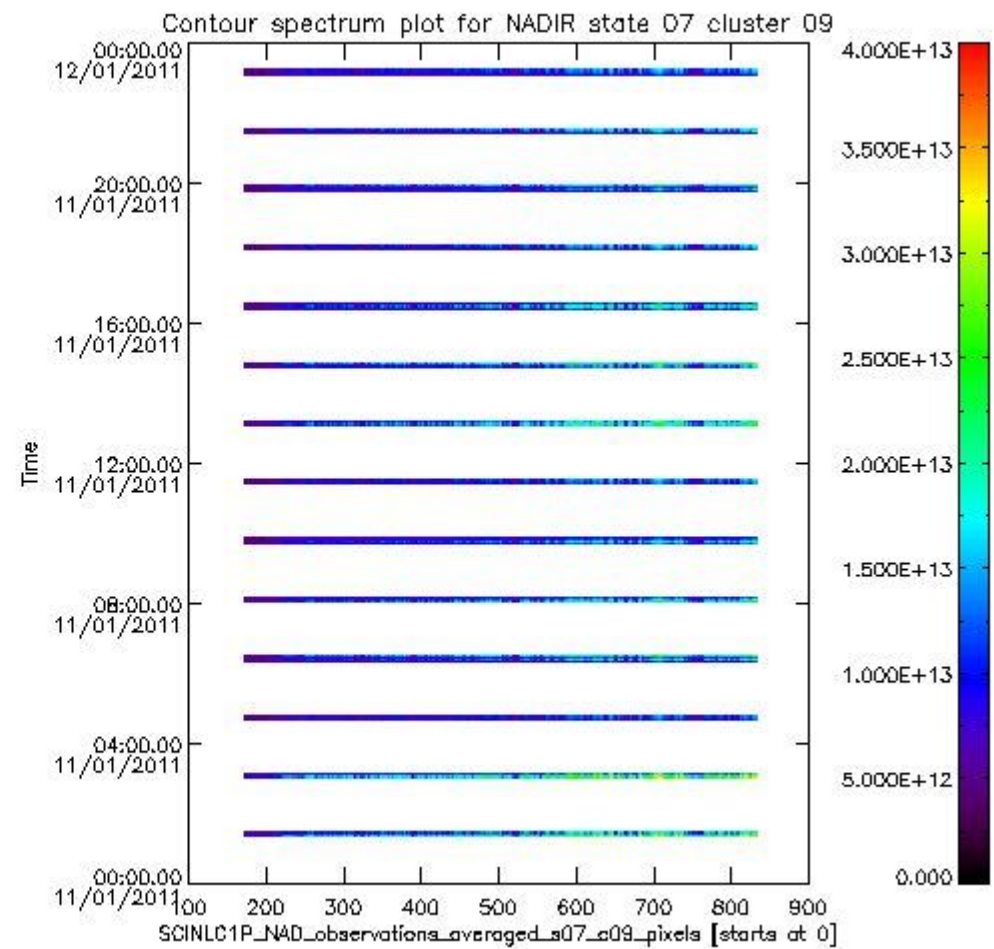
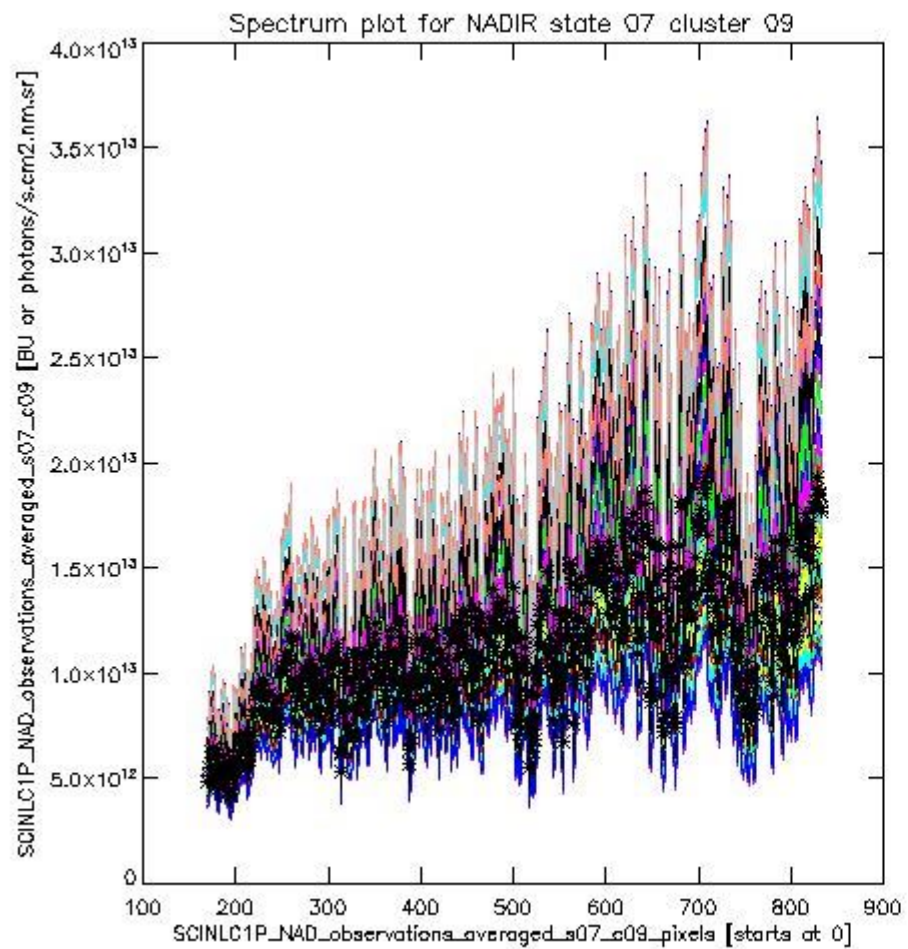
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110111_0.PNG



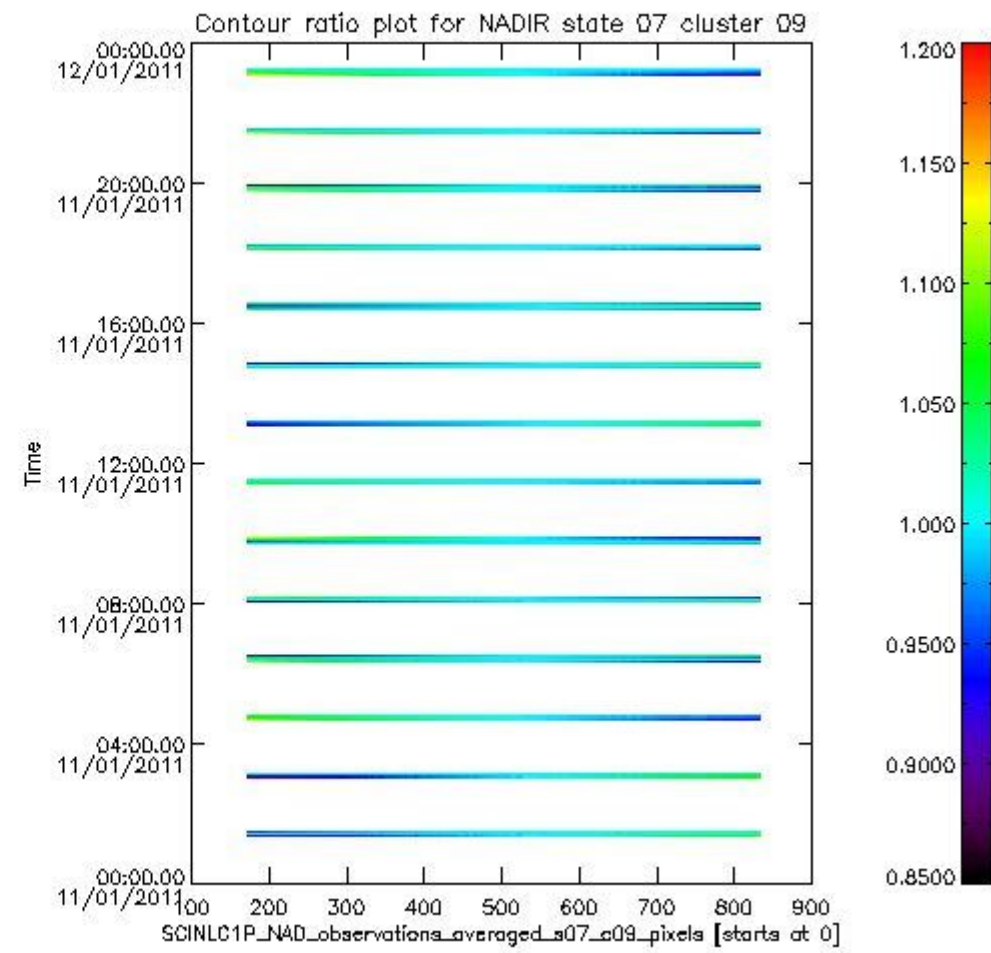
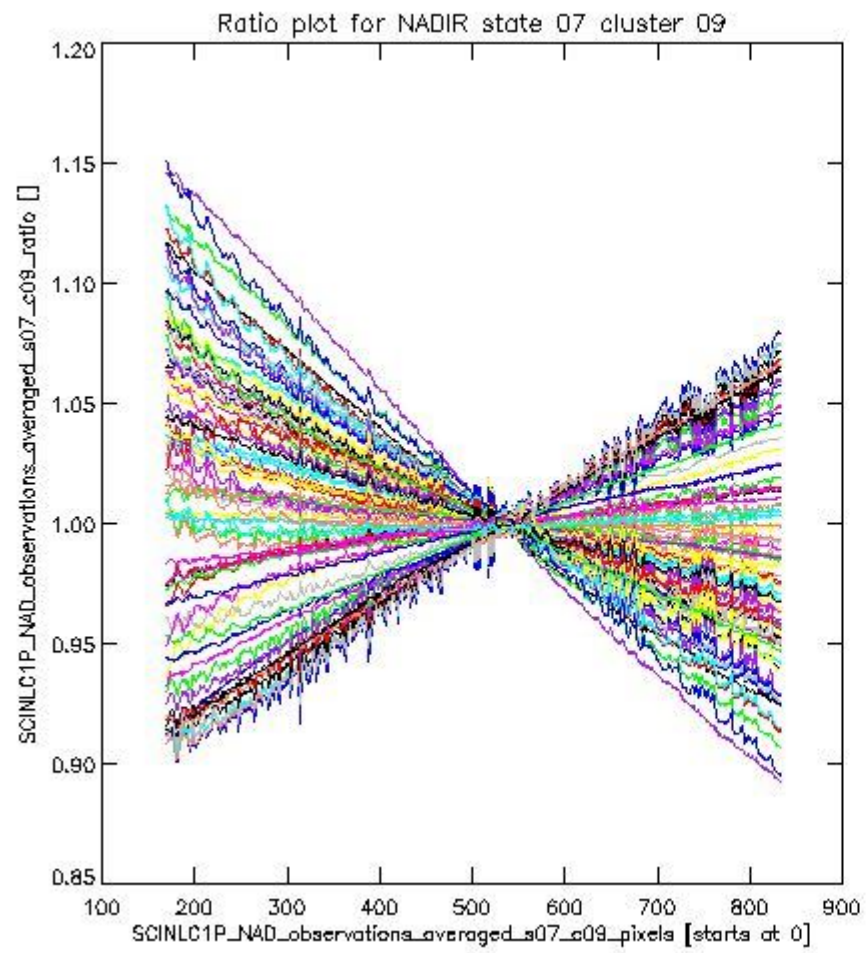
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110111_1.PNG

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	11JAN2011 01:20:48.093
Start time of last sample	11JAN2011 23:12:52.259
Reference period start time	12DEC2010 01:19:33.705
Reference period stop time	10JAN2011 23:49:39.526
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	833



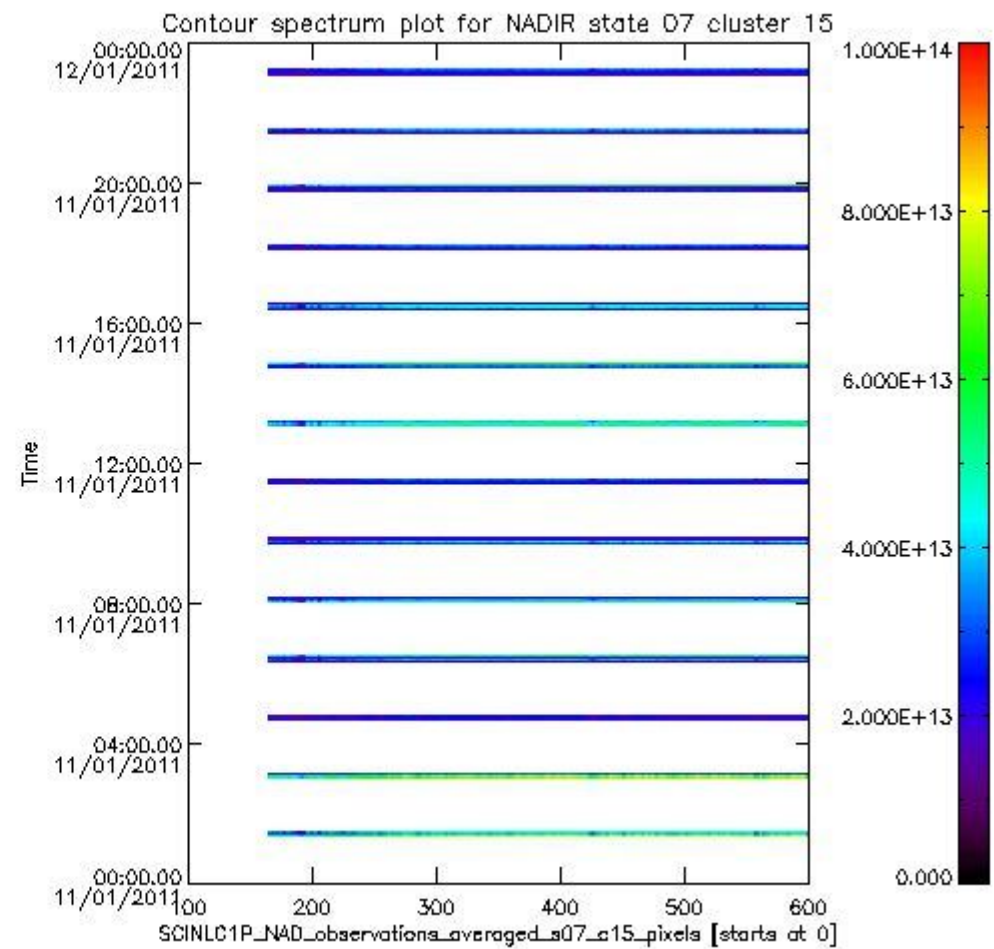
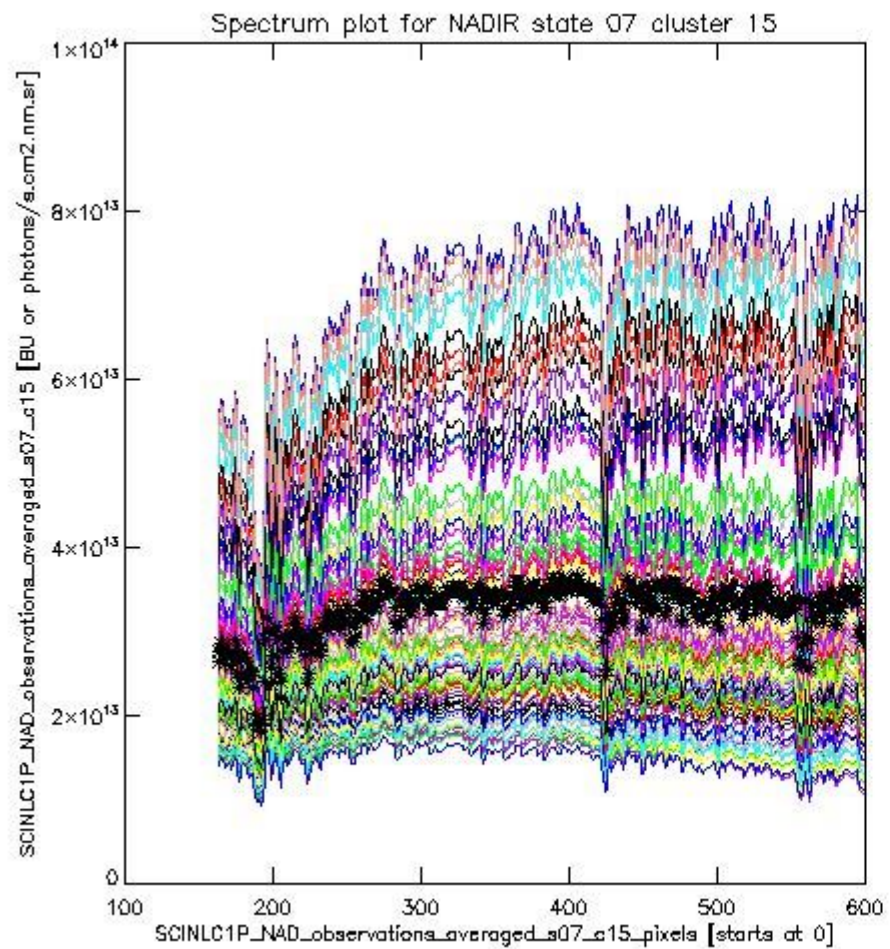
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110111_2.PNG



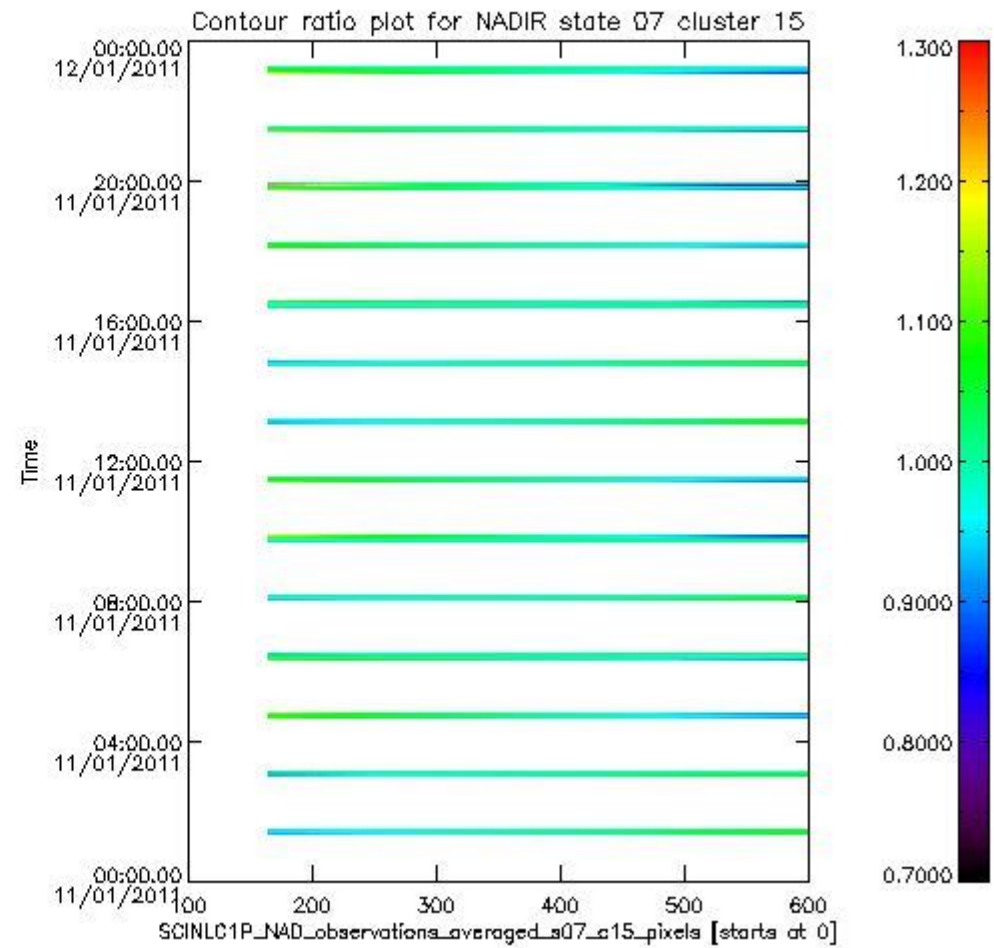
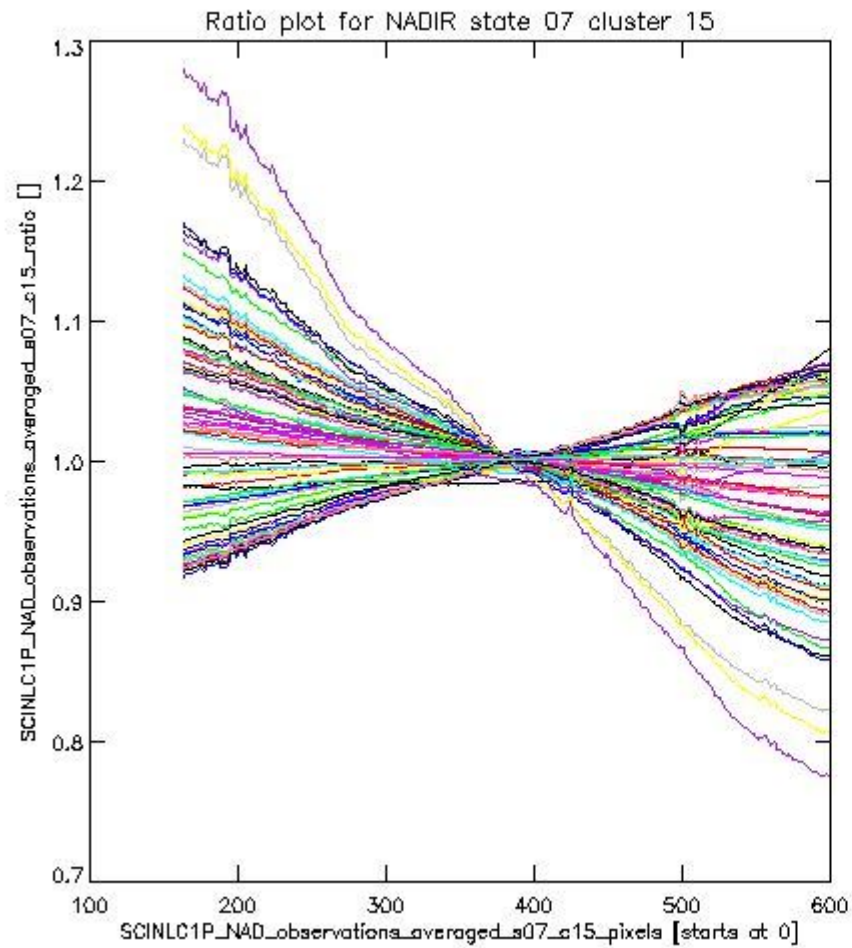
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110111_3.PNG

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	11JAN2011 01:20:48.093
Start time of last sample	11JAN2011 23:12:52.259
Reference period start time	12DEC2010 01:19:33.705
Reference period stop time	10JAN2011 23:49:39.526
Channel number	3
First pixel number (starts at 0)	163
Last pixel number (starts at 0)	598



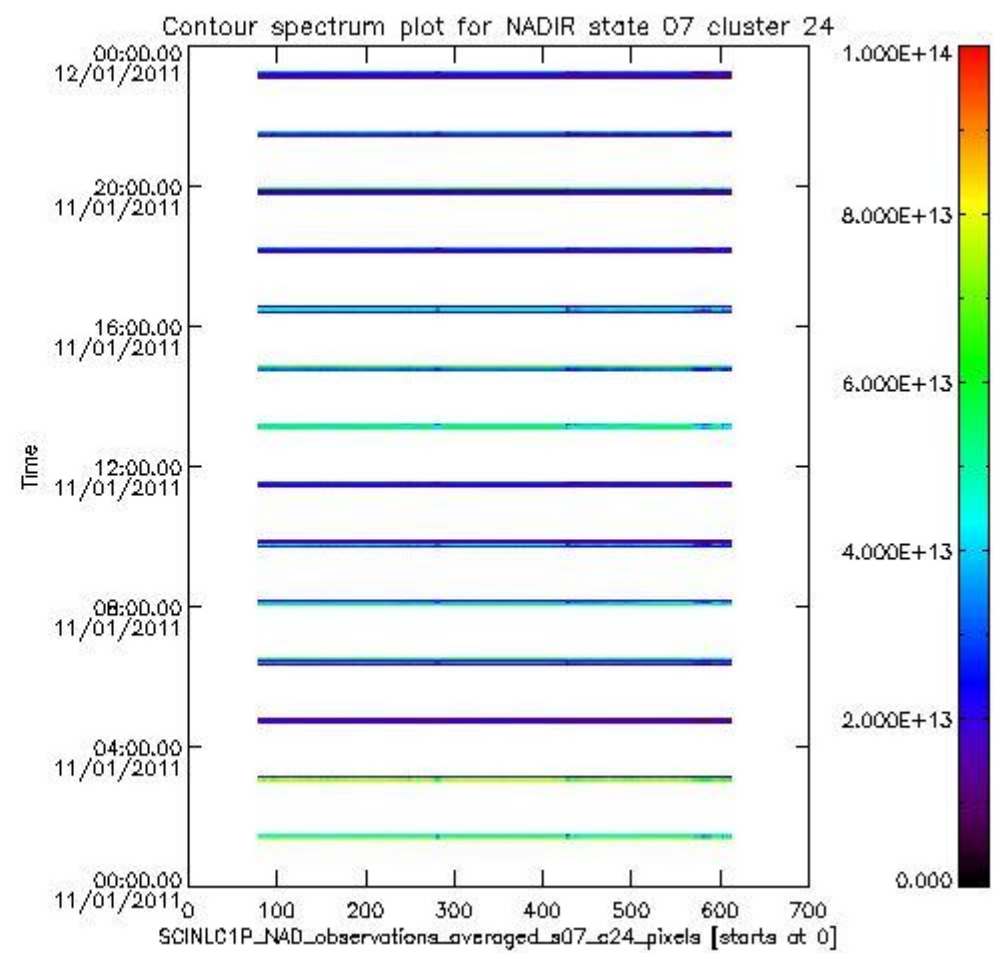
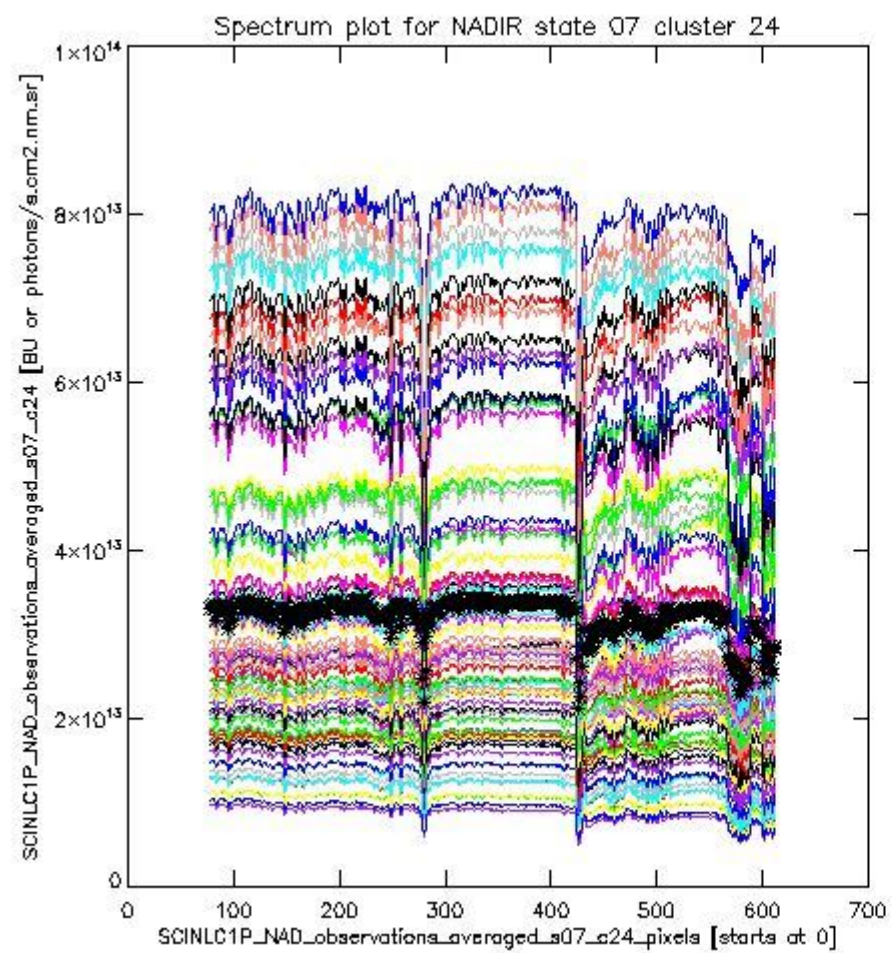
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110111_4.PNG



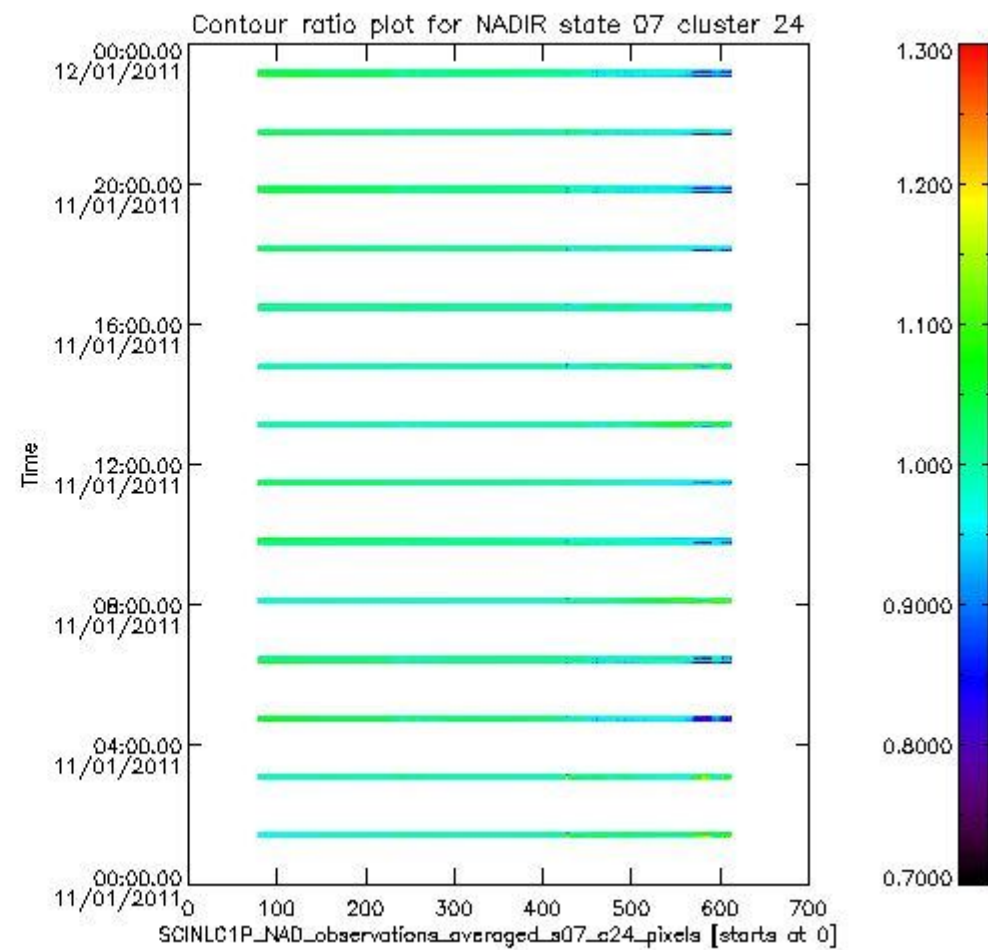
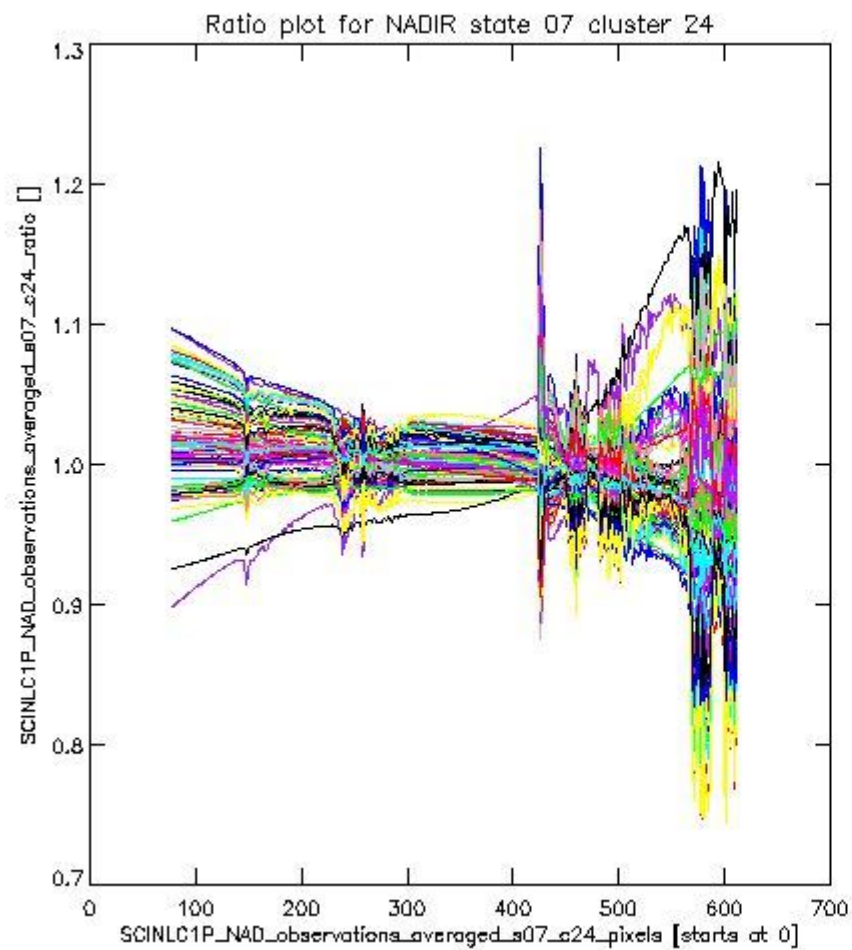
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110111_5.PNG

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	11JAN2011 01:20:48.093
Start time of last sample	11JAN2011 23:12:52.259
Reference period start time	12DEC2010 01:19:33.705
Reference period stop time	10JAN2011 23:49:39.526
Channel number	4
First pixel number (starts at 0)	78
Last pixel number (starts at 0)	612



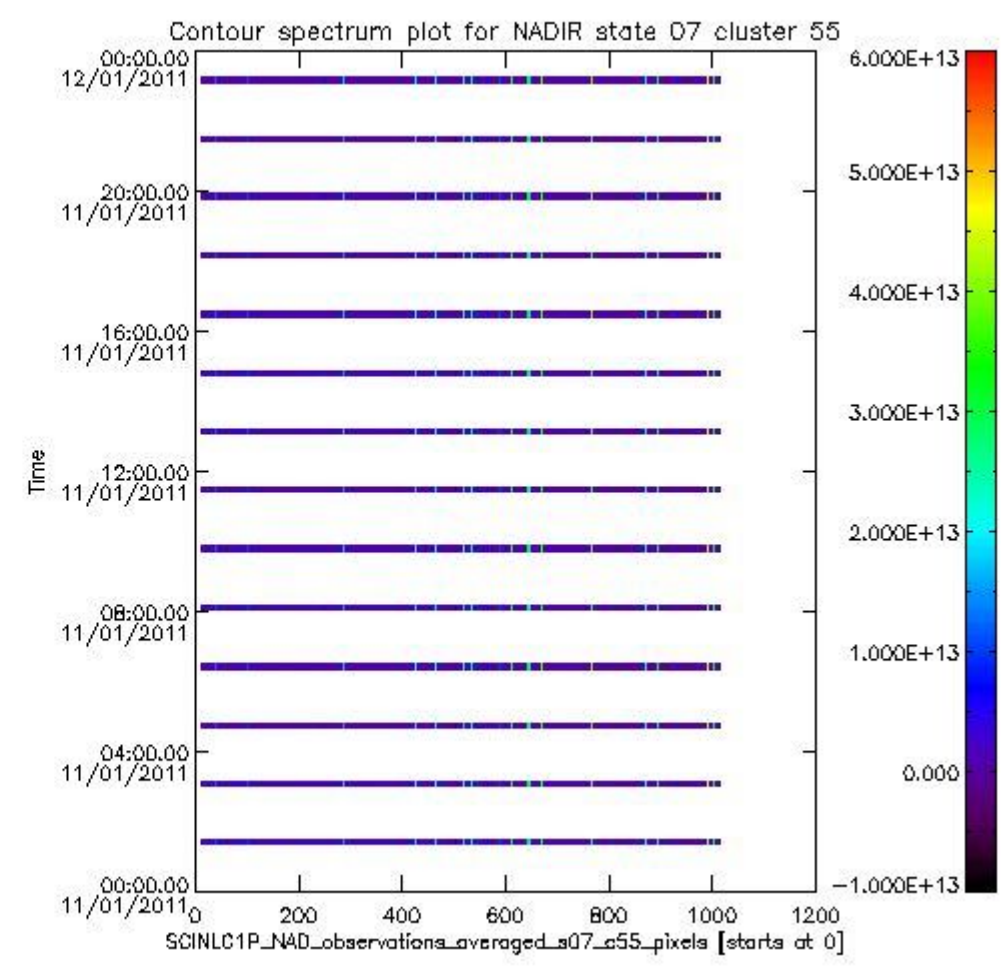
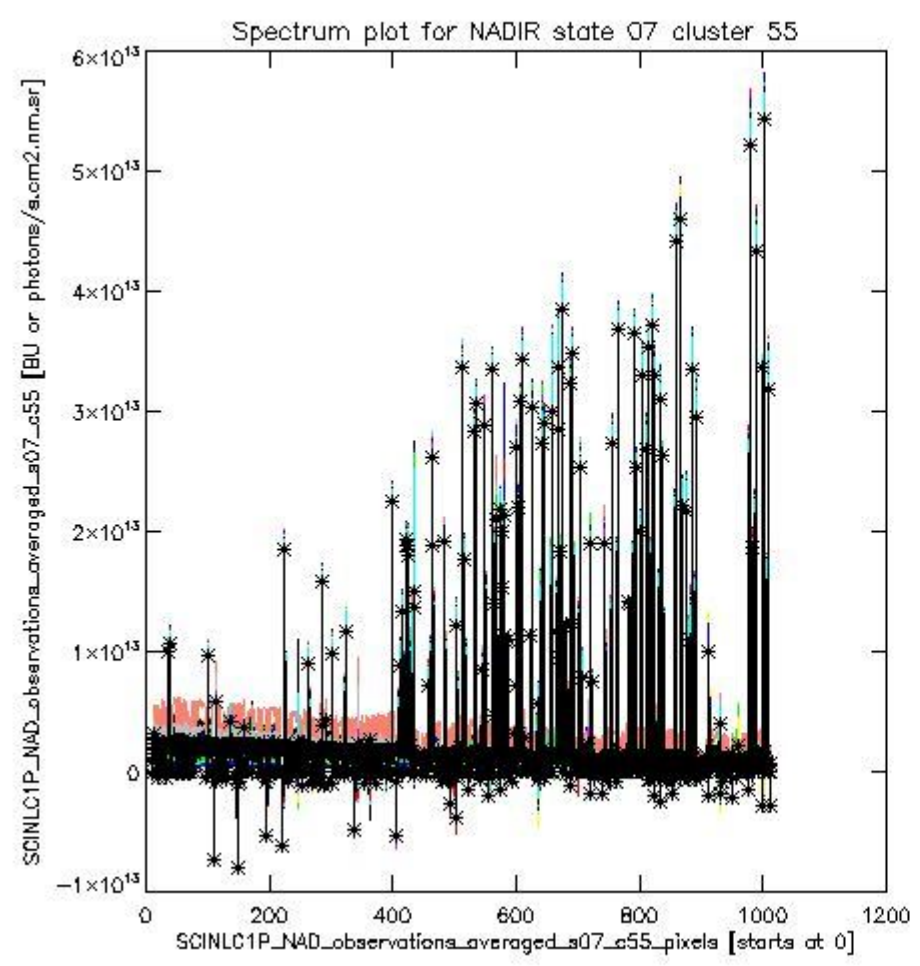
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110111_6.PNG



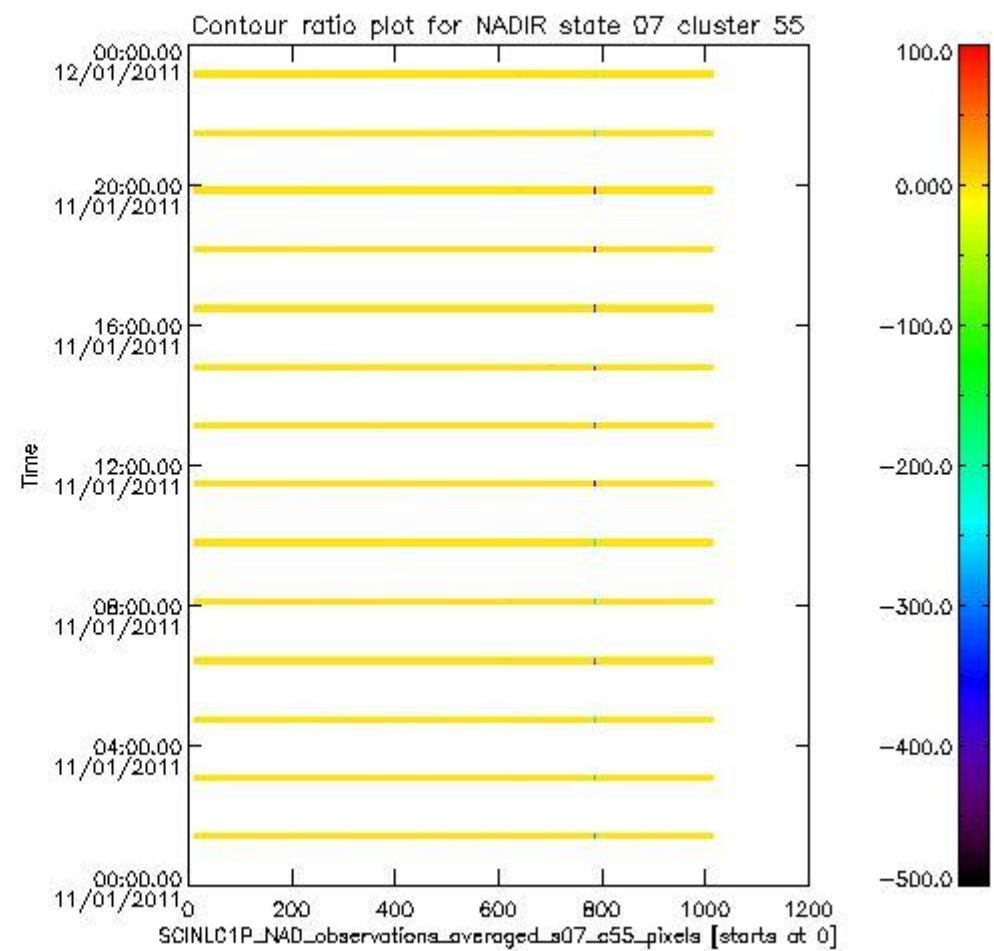
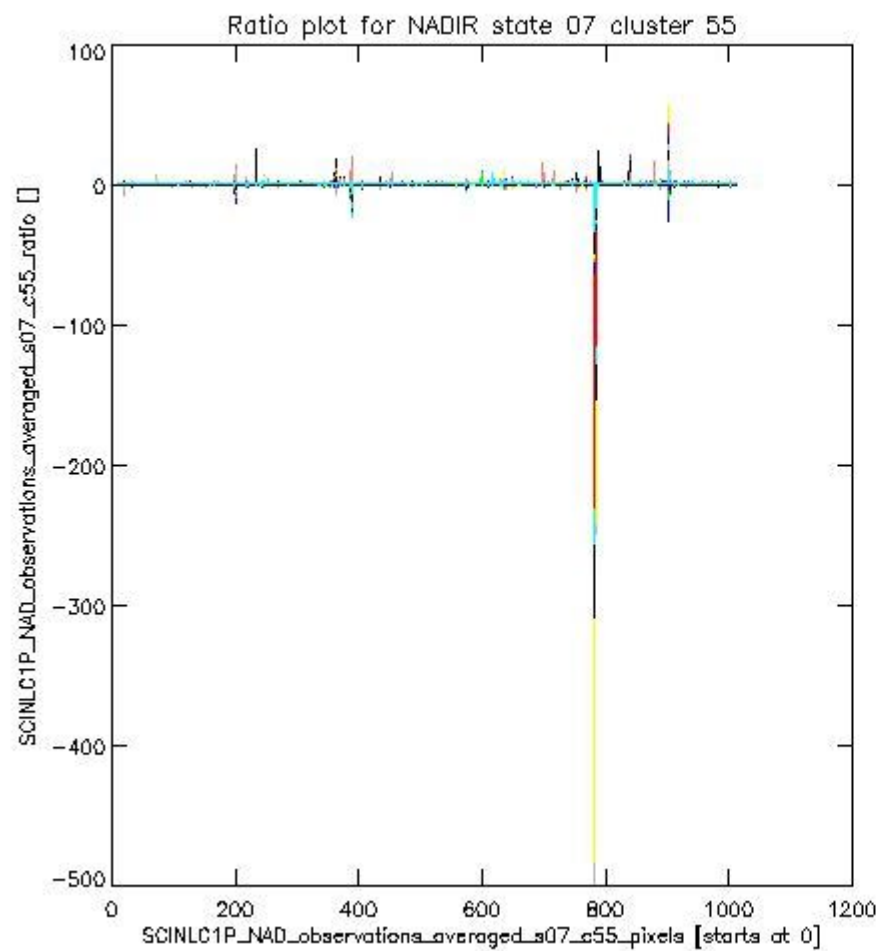
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110111_7.PNG

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	11JAN2011 01:20:48.093
Start time of last sample	11JAN2011 23:12:52.259
Reference period start time	12DEC2010 01:19:33.705
Reference period stop time	10JAN2011 23:49:39.526
Channel number	8
First pixel number (starts at 0)	10
Last pixel number (starts at 0)	1013



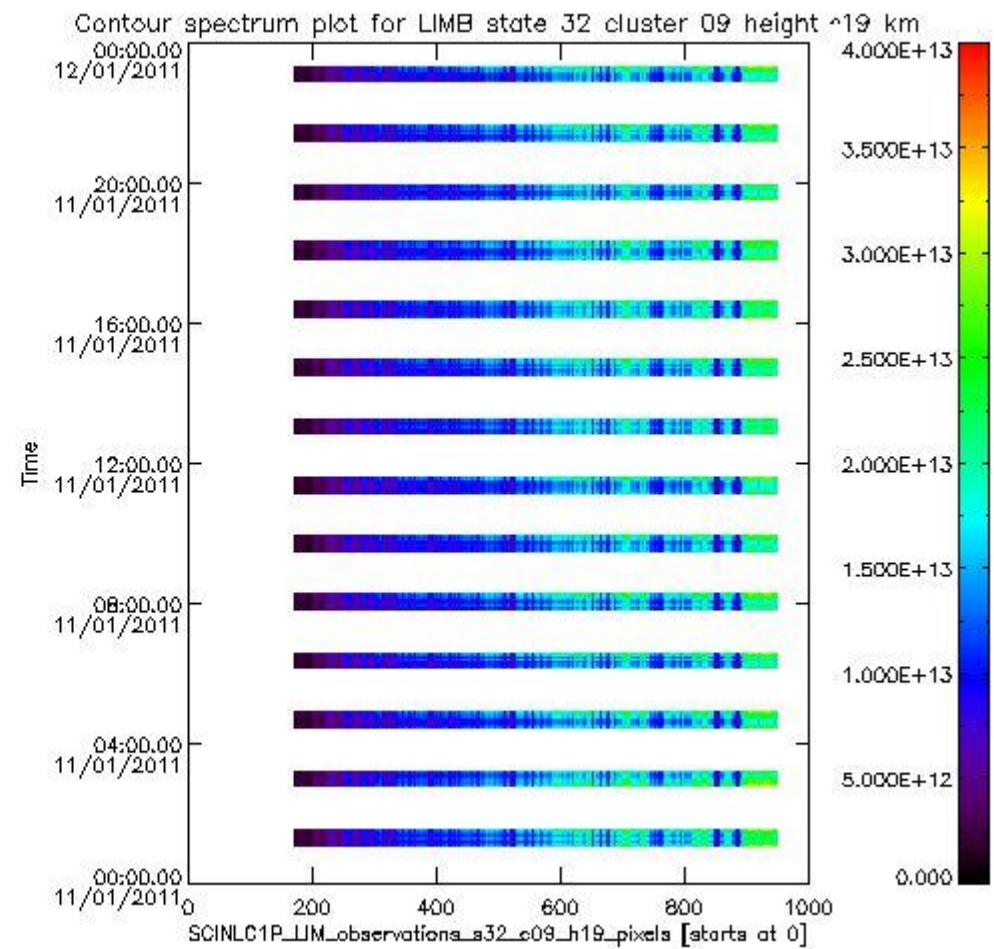
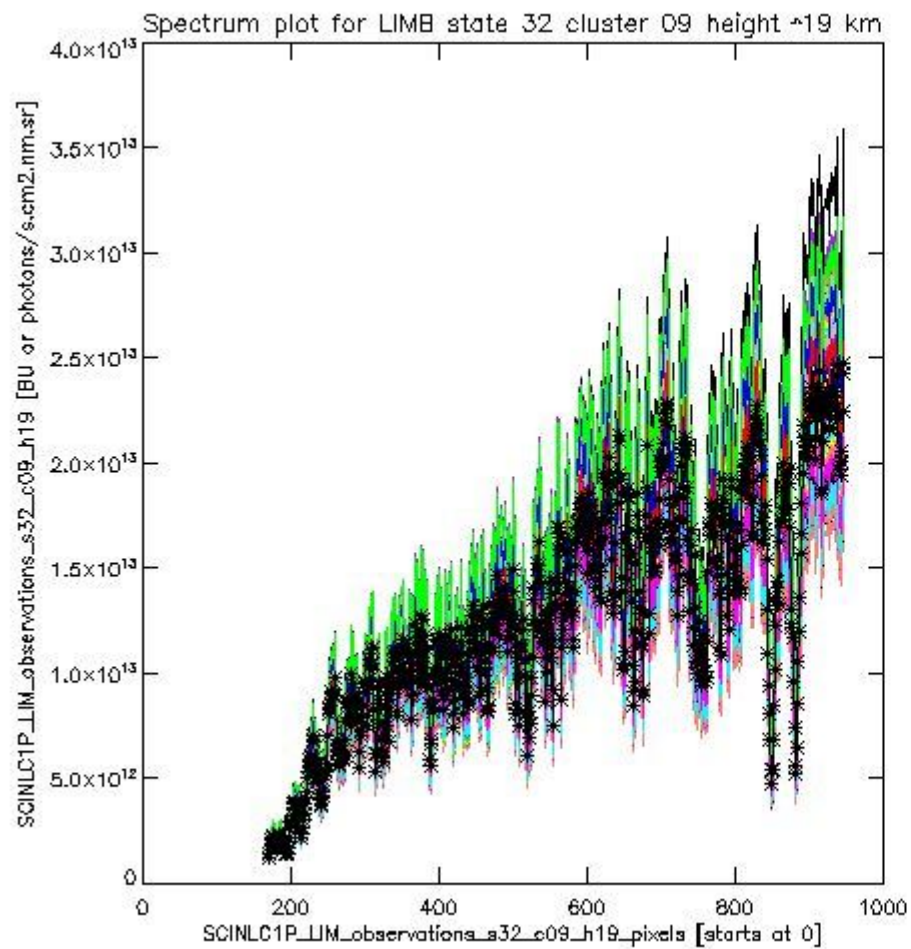
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110111_8.PNG



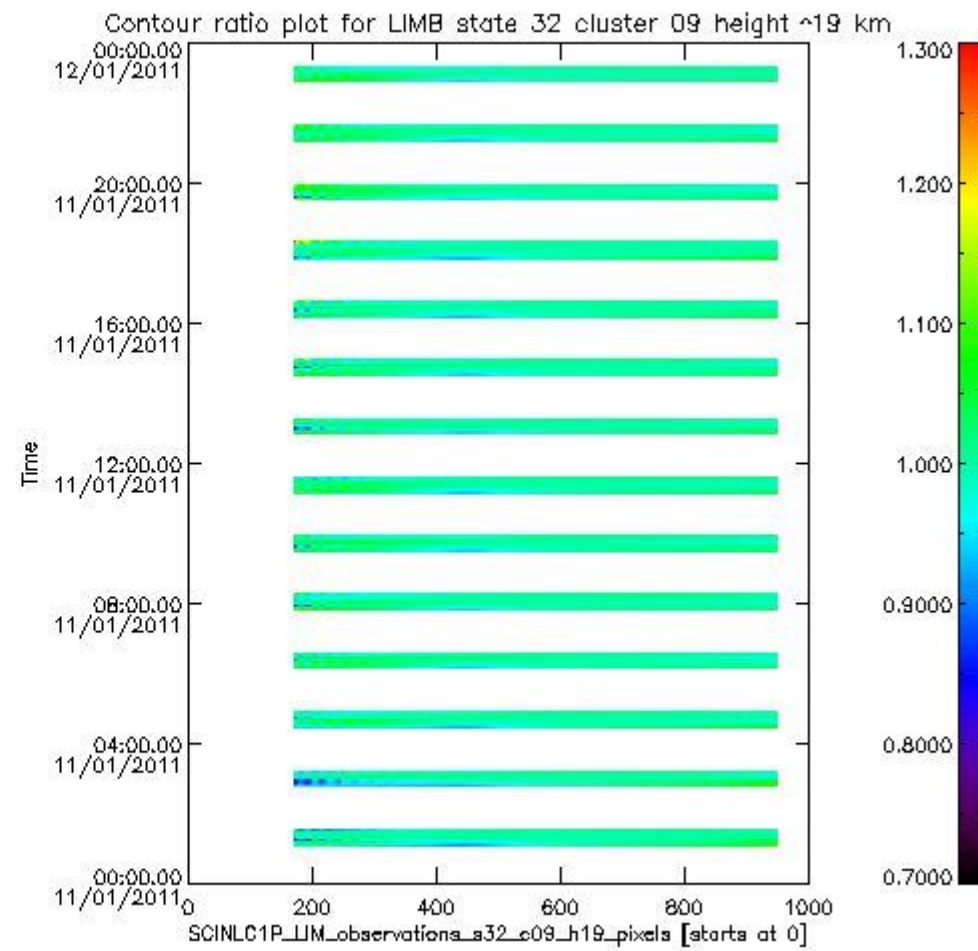
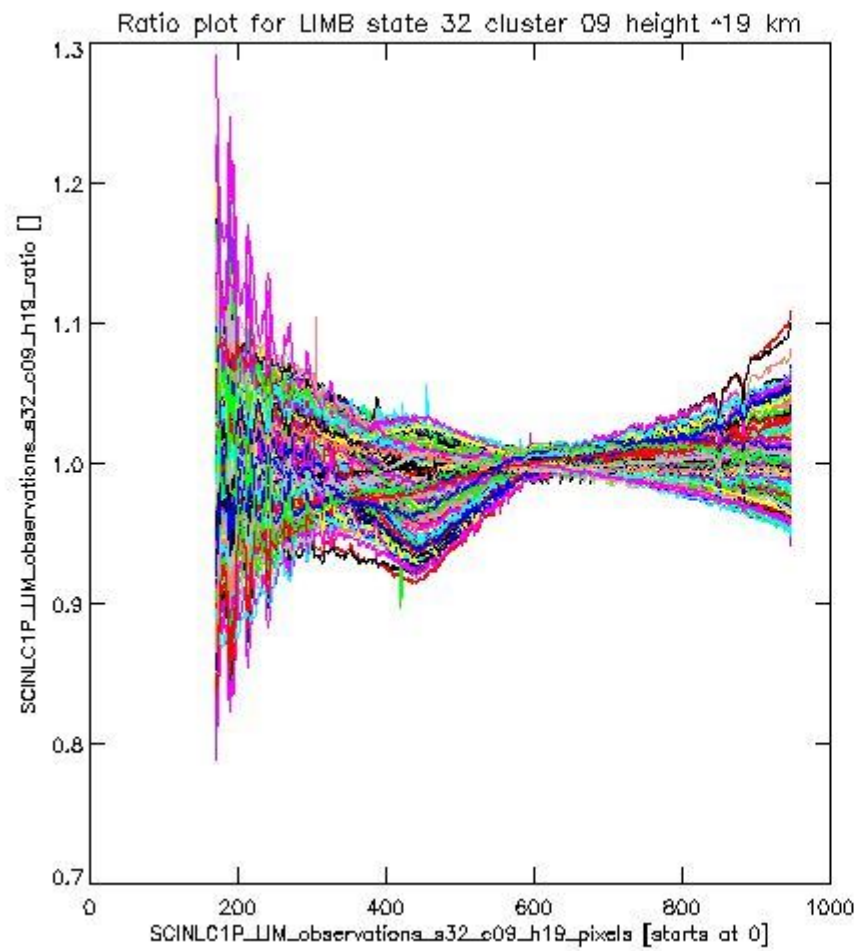
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110111_9.PNG

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	11JAN2011 01:05:34.714
Start time of last sample	11JAN2011 23:16:03.564
Reference period start time	12DEC2010 01:06:23.068
Reference period stop time	10JAN2011 23:52:50.827
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	947



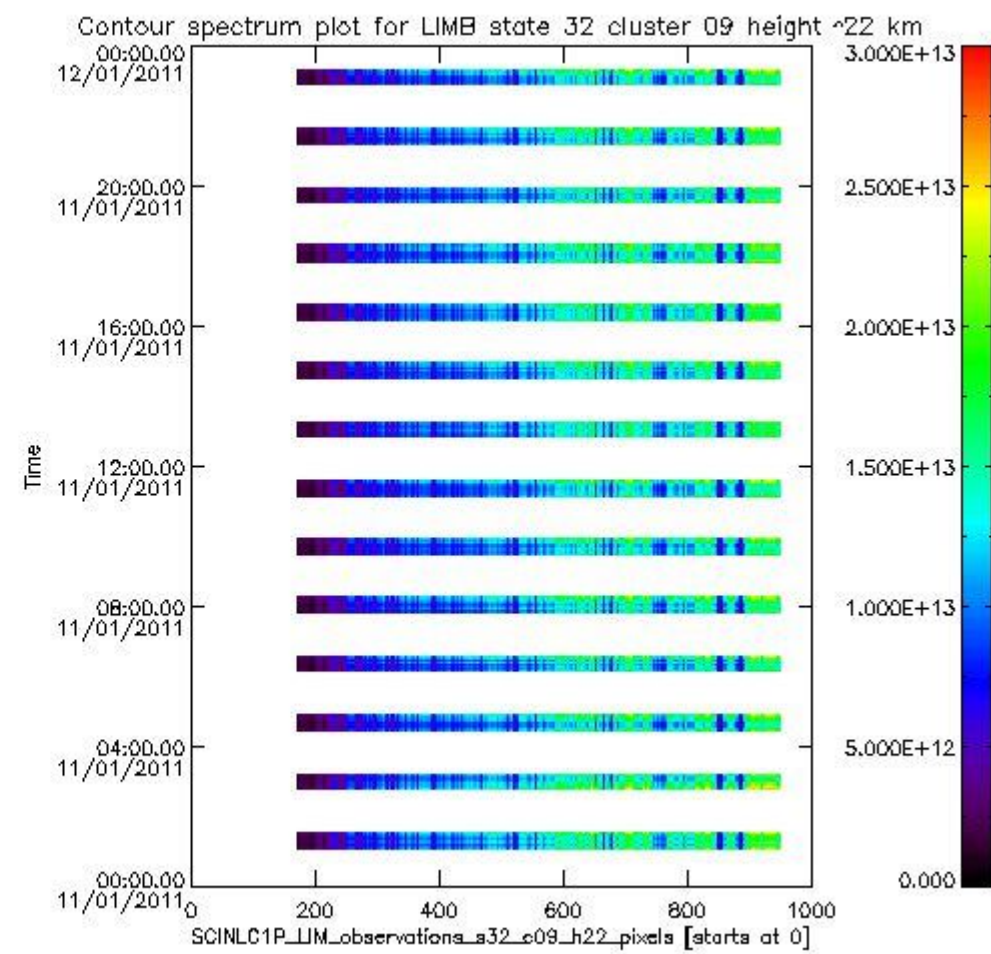
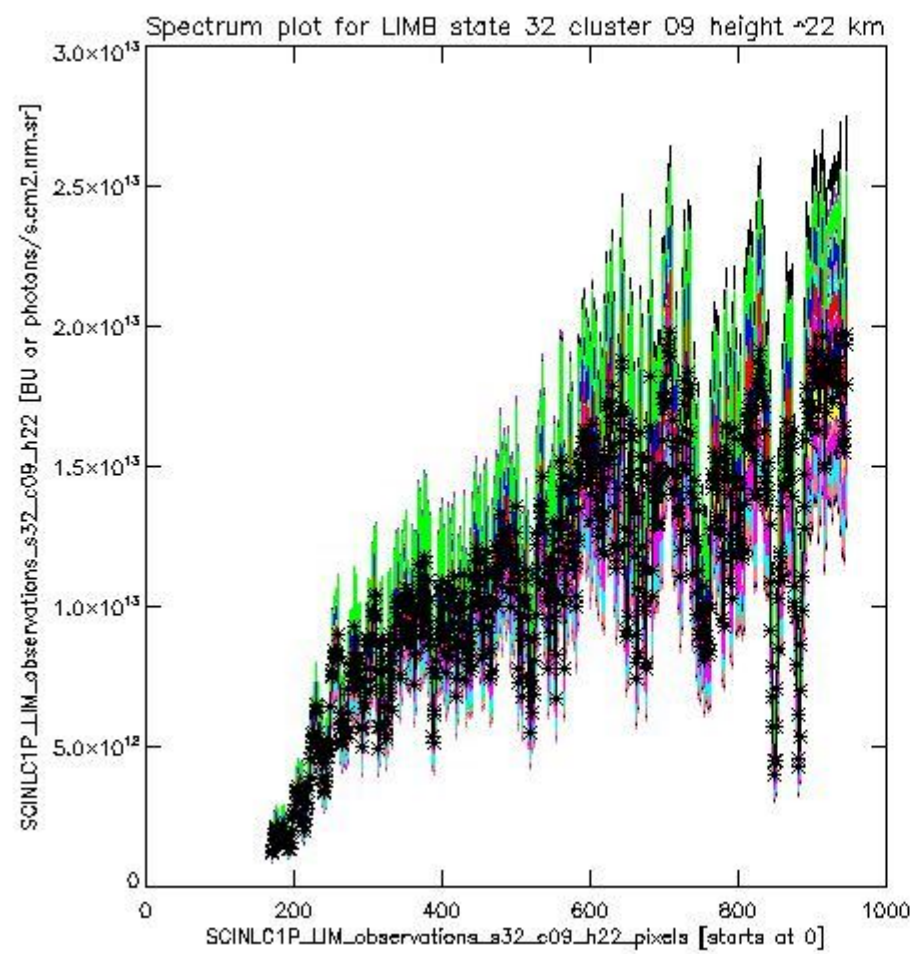
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110111_10.PNG



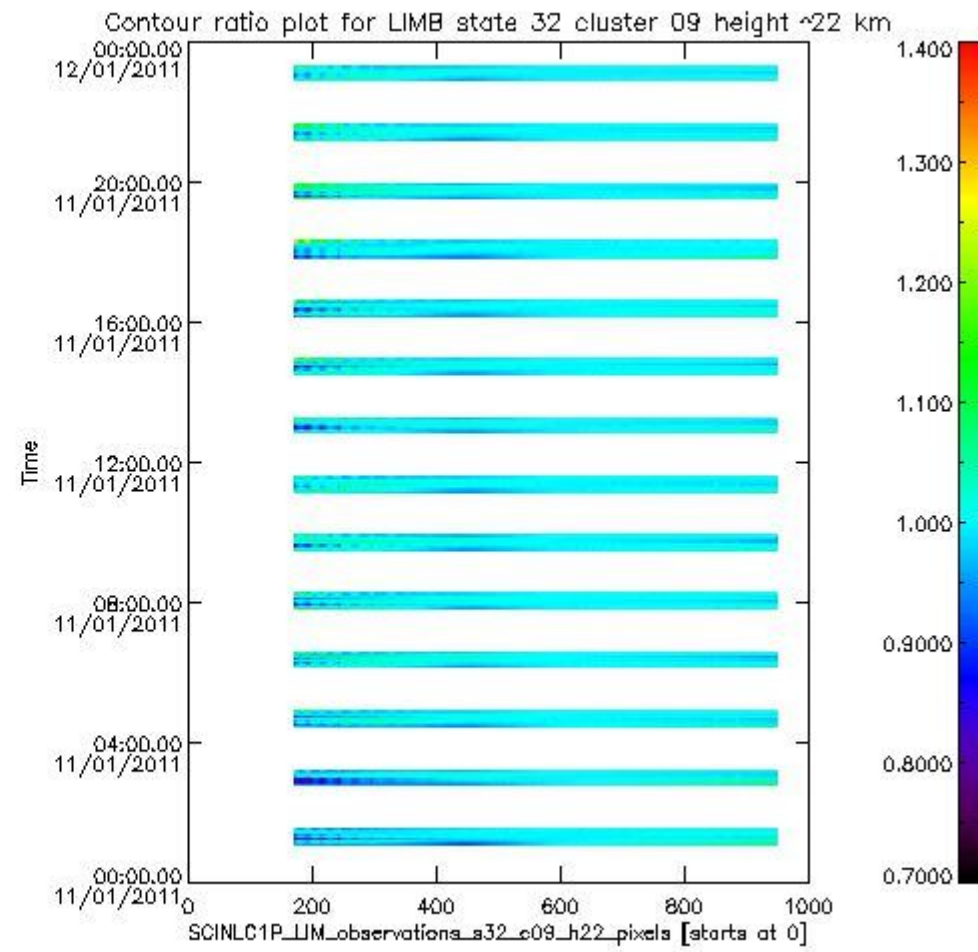
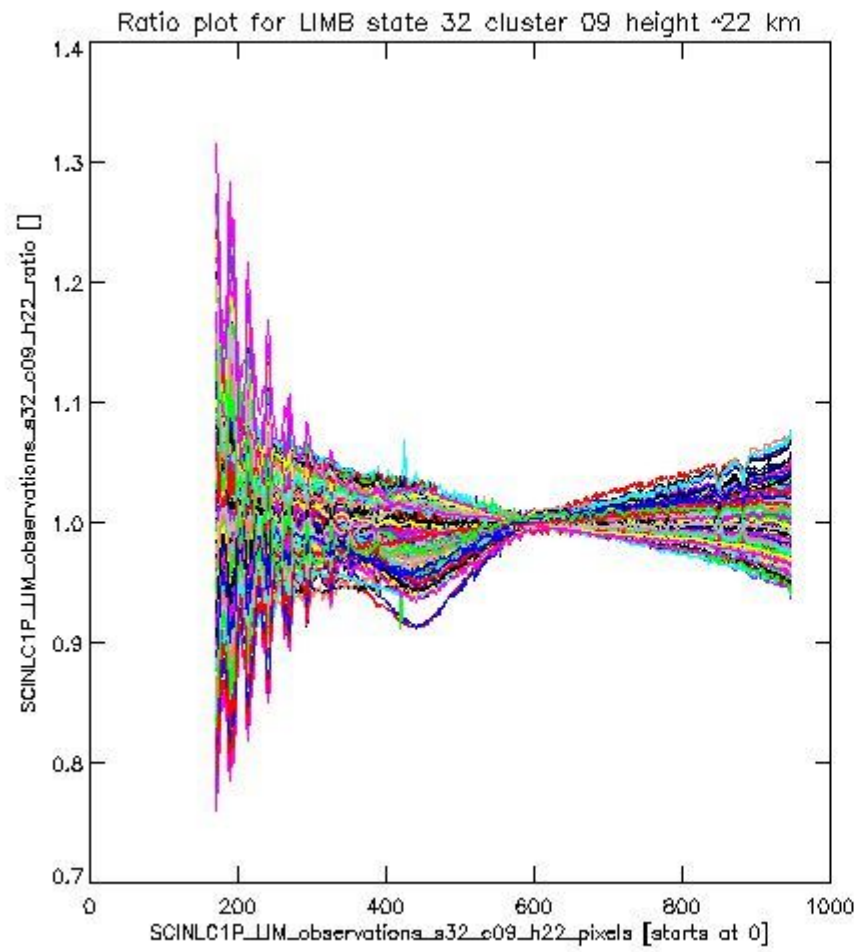
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110111_11.PNG

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	11JAN2011 01:05:34.714
Start time of last sample	11JAN2011 23:16:03.564
Reference period start time	12DEC2010 01:06:23.068
Reference period stop time	10JAN2011 23:52:50.827
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	947



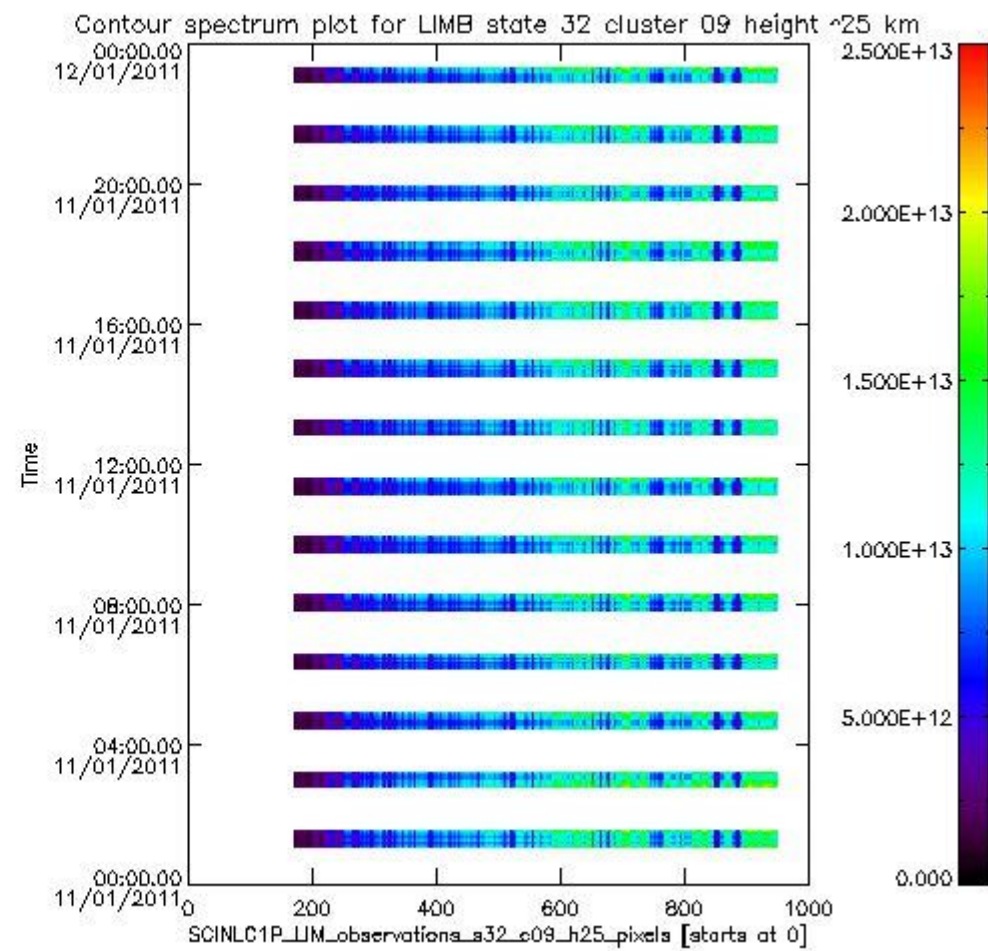
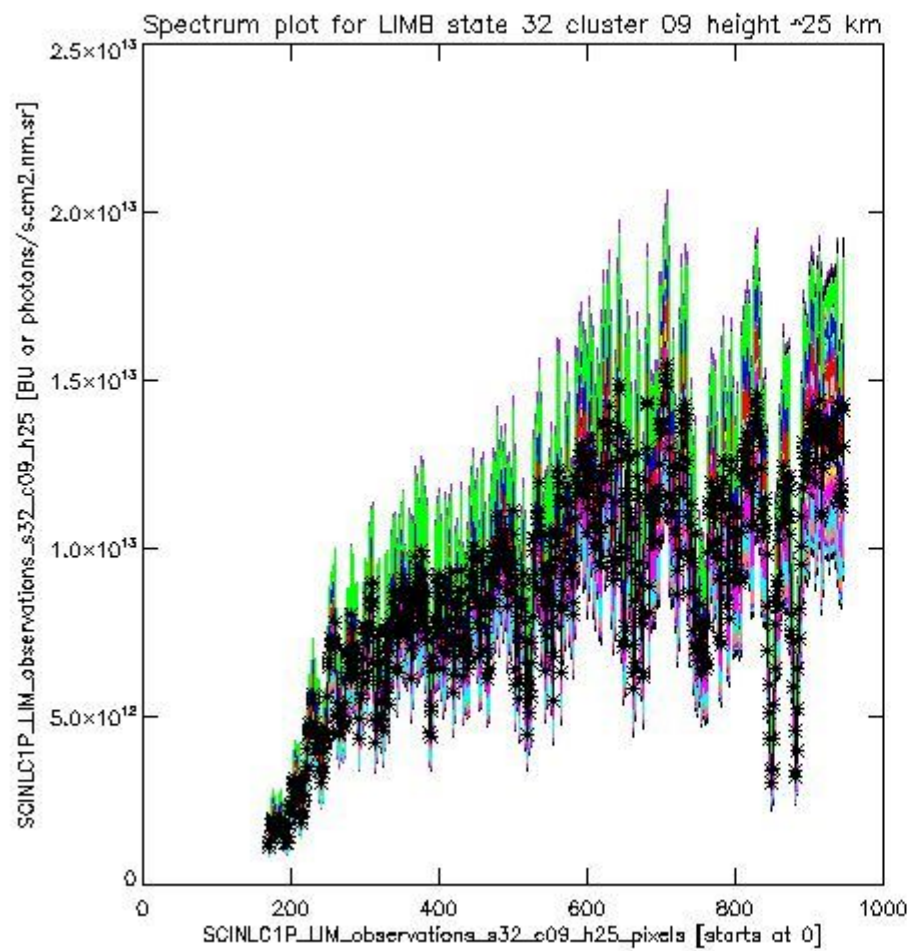
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110111_12.PNG



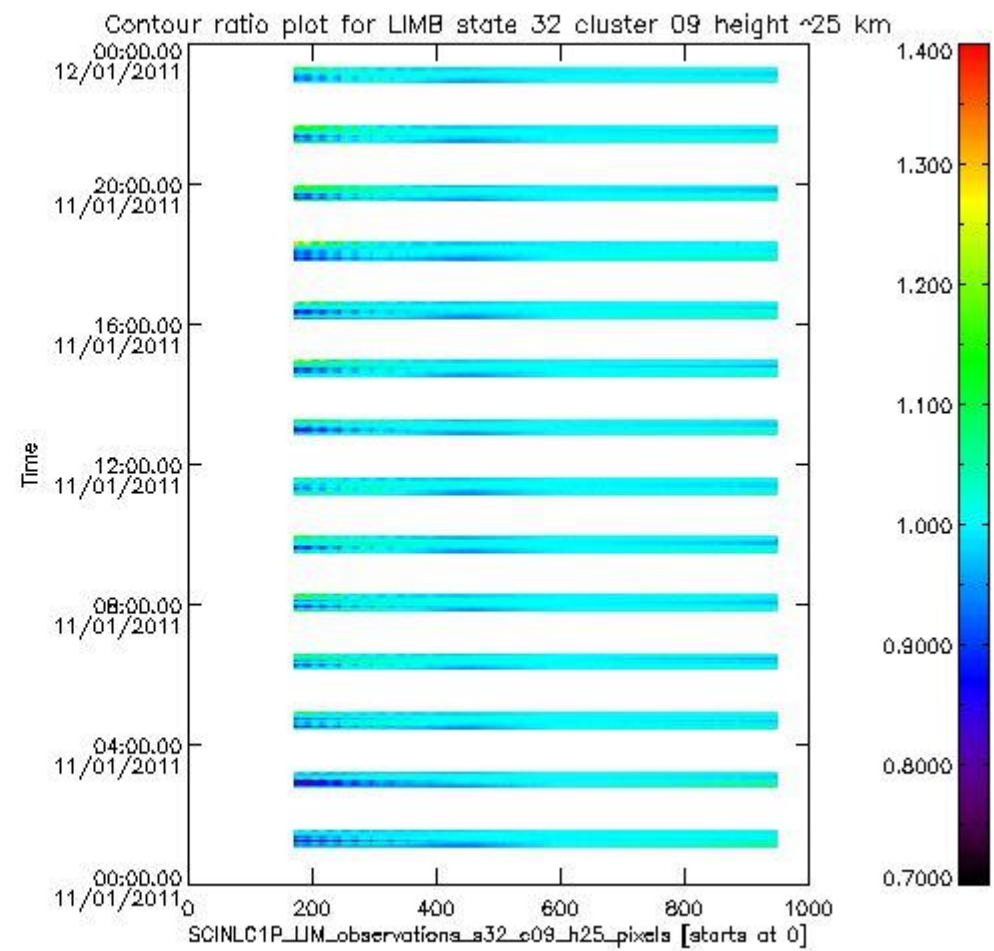
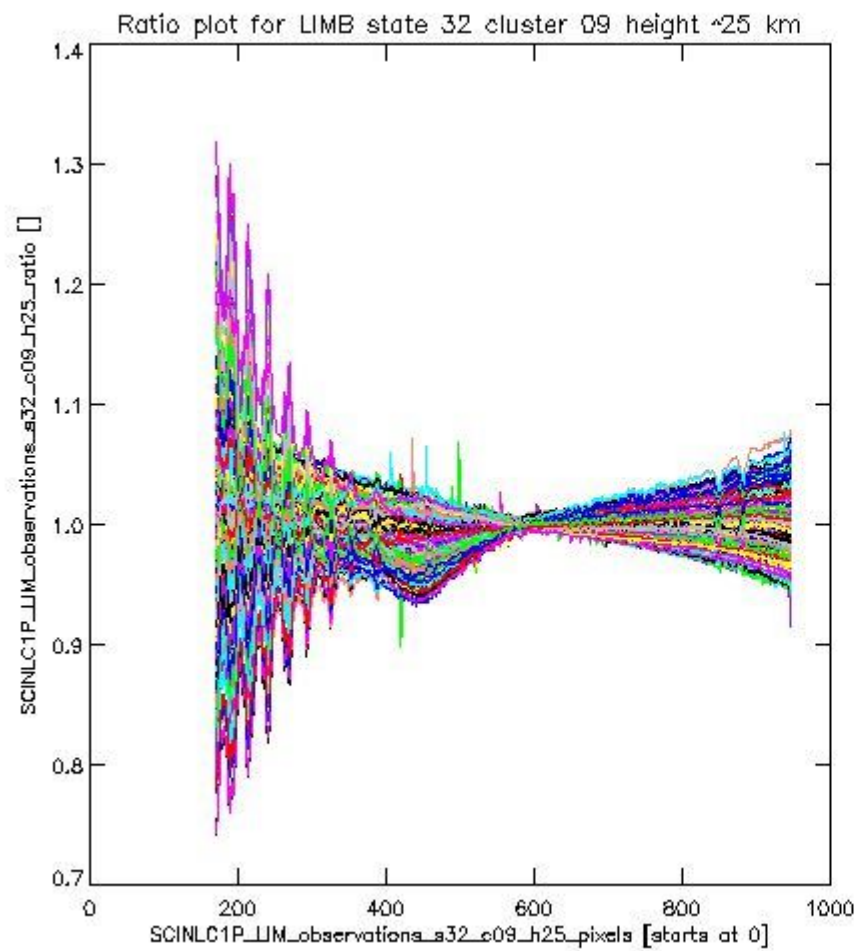
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110111_13.PNG

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	11JAN2011 01:05:34.714
Start time of last sample	11JAN2011 23:16:03.564
Reference period start time	12DEC2010 01:06:23.068
Reference period stop time	10JAN2011 23:52:50.827
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	947



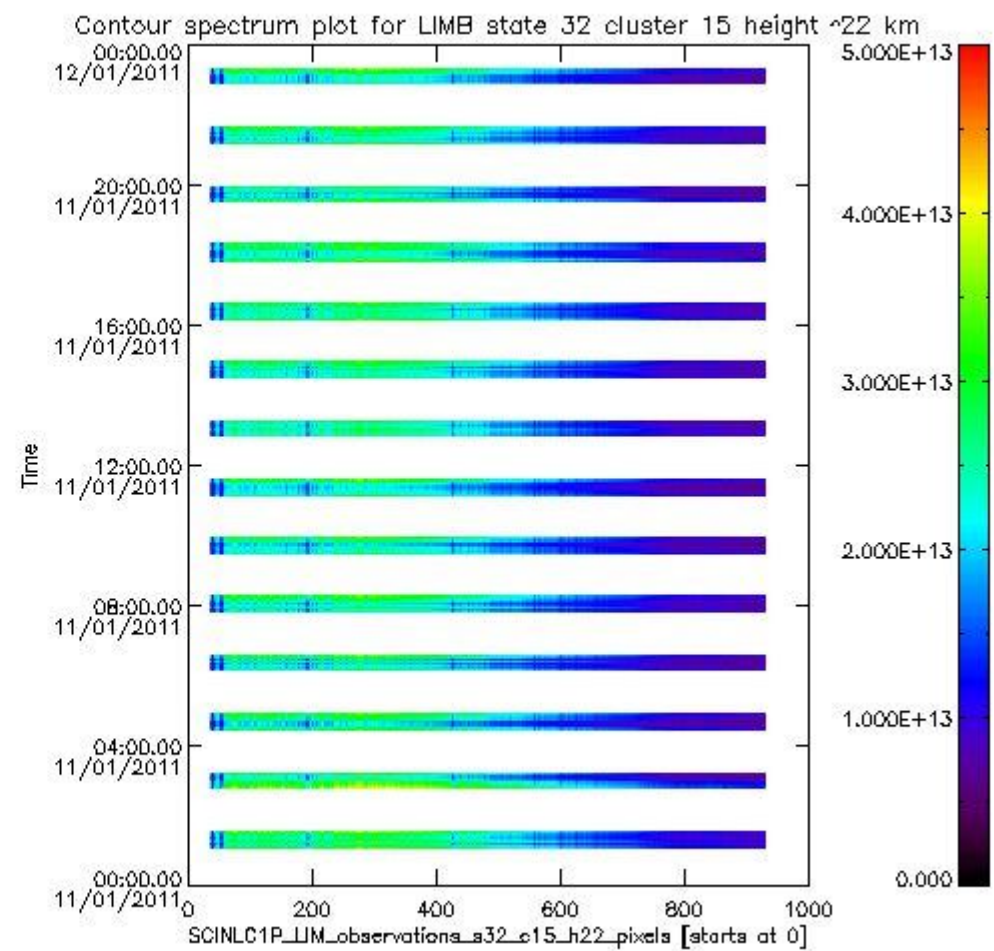
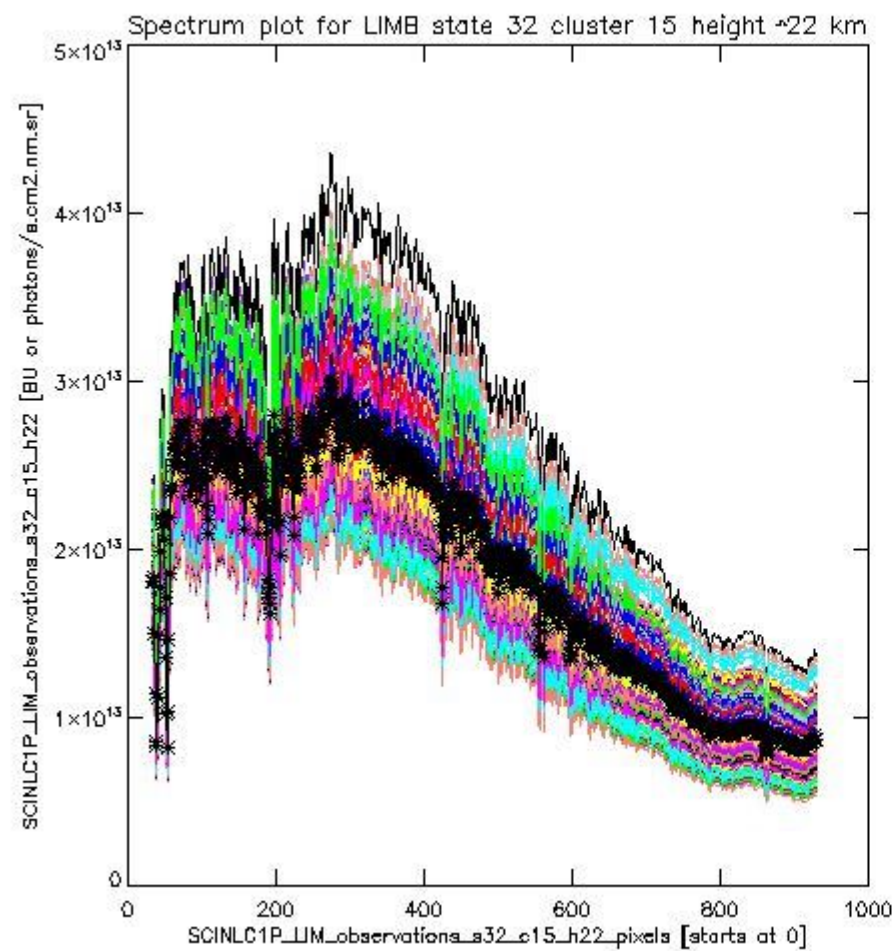
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110111_14.PNG



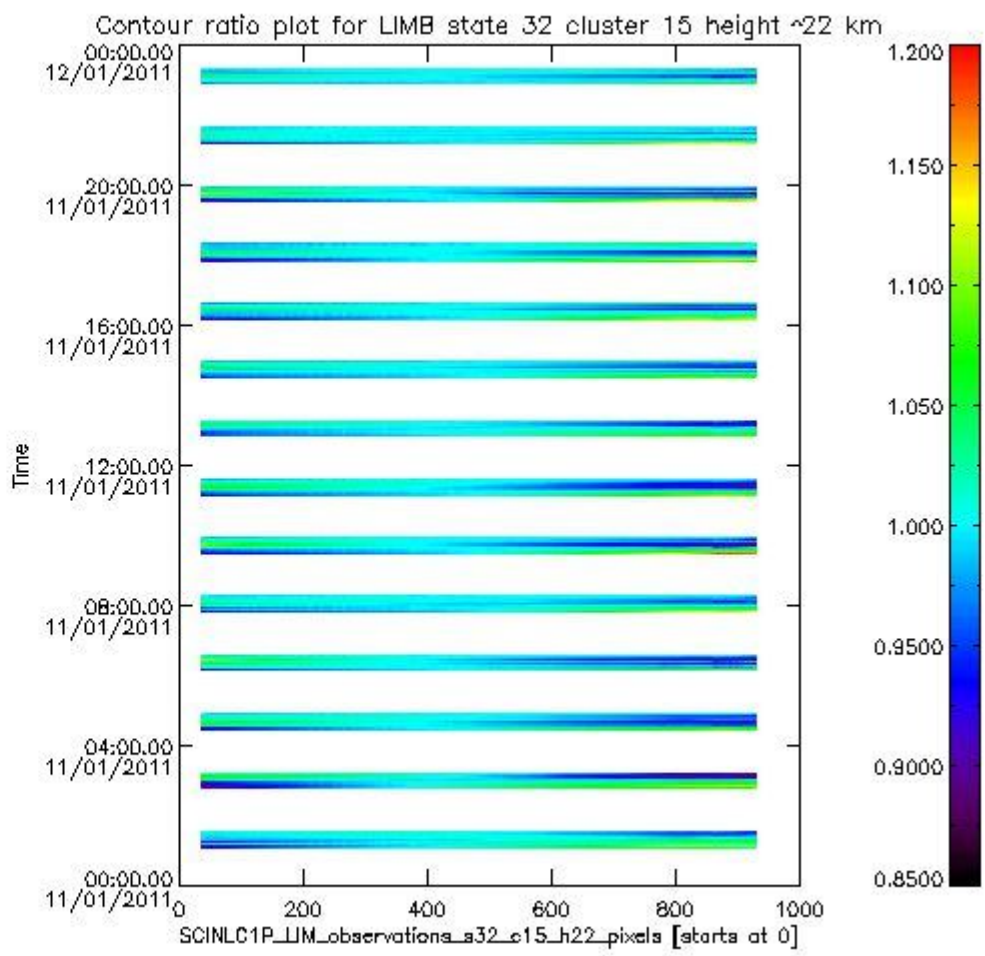
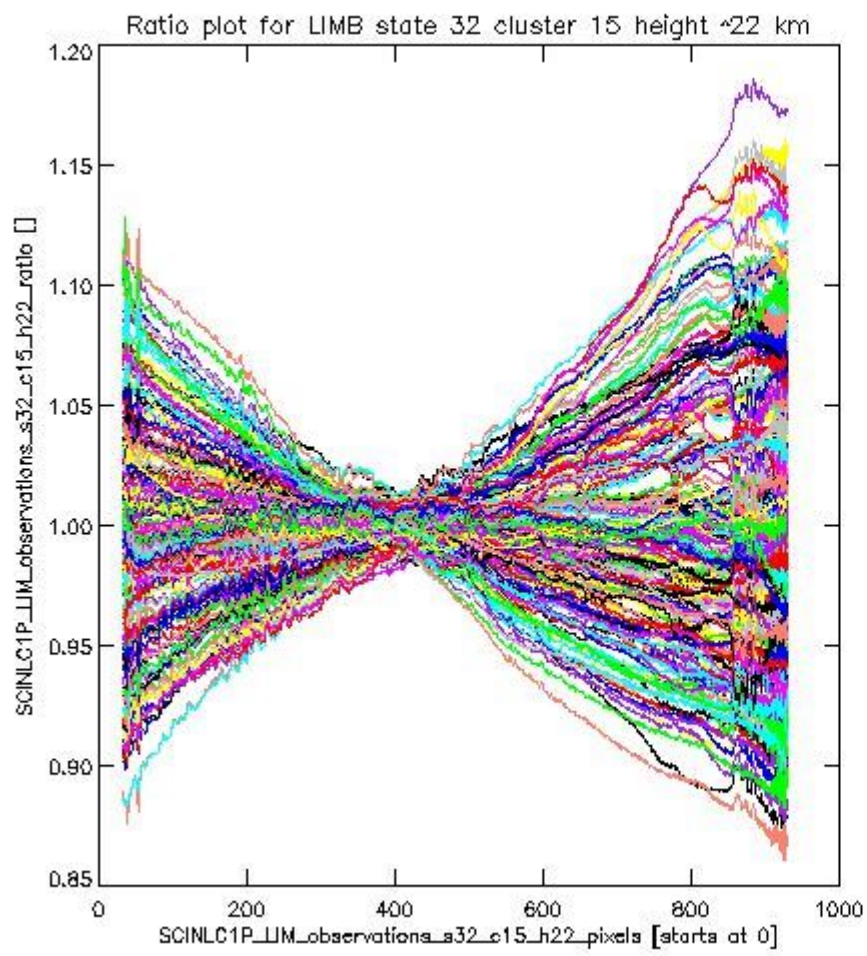
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110111_15.PNG

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	11JAN2011 01:05:34.714
Start time of last sample	11JAN2011 23:16:03.564
Reference period start time	12DEC2010 01:06:23.068
Reference period stop time	10JAN2011 23:52:50.827
Channel number	3
First pixel number (starts at 0)	33
Last pixel number (starts at 0)	929



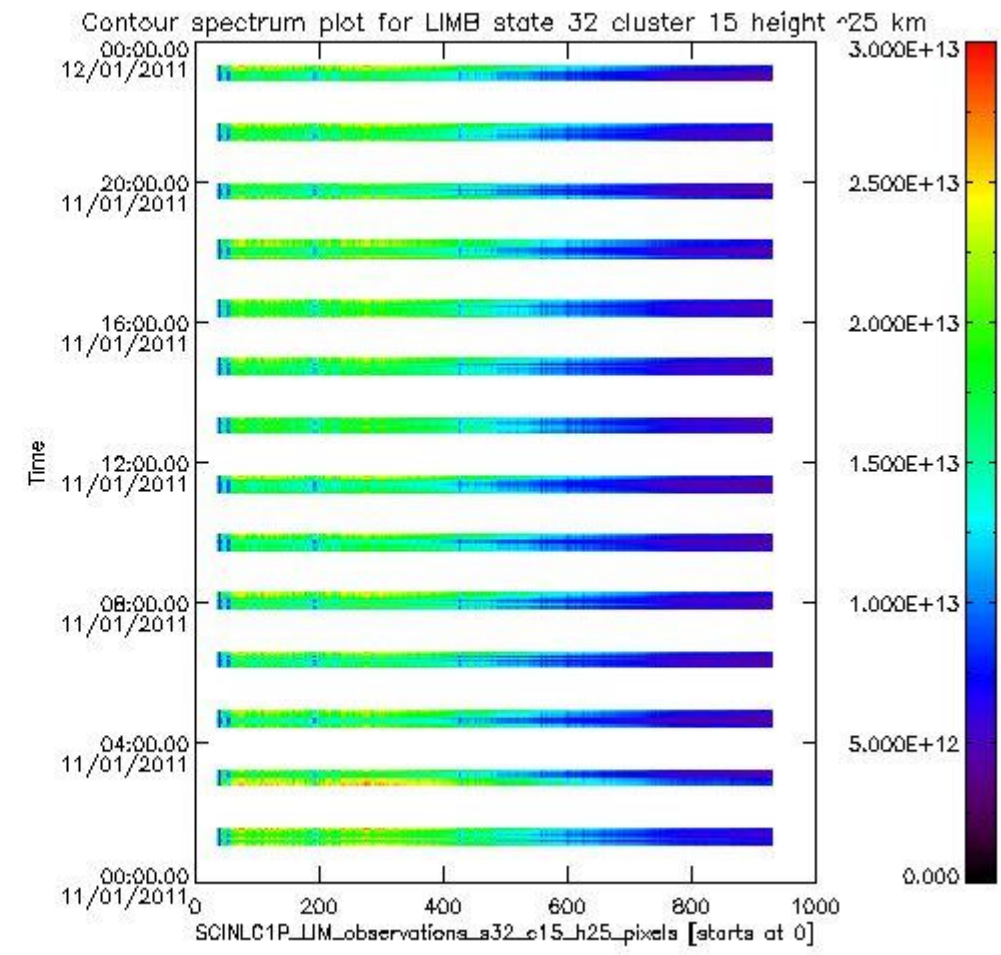
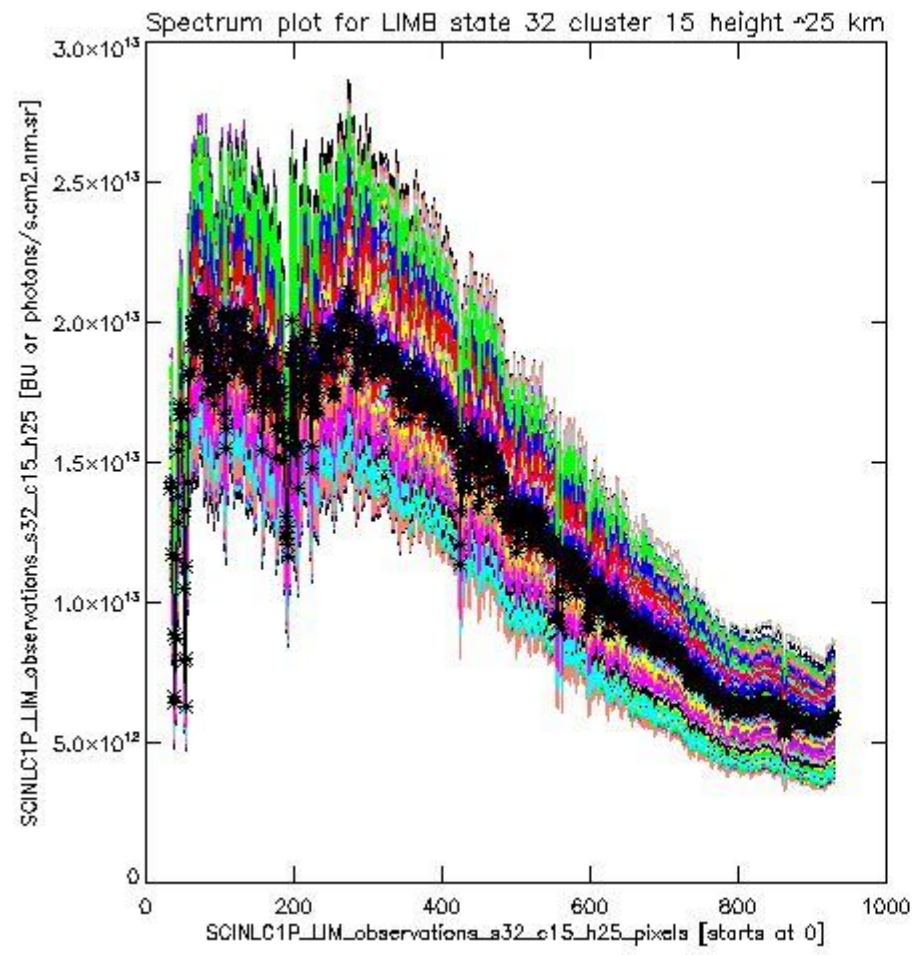
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110111_16.PNG



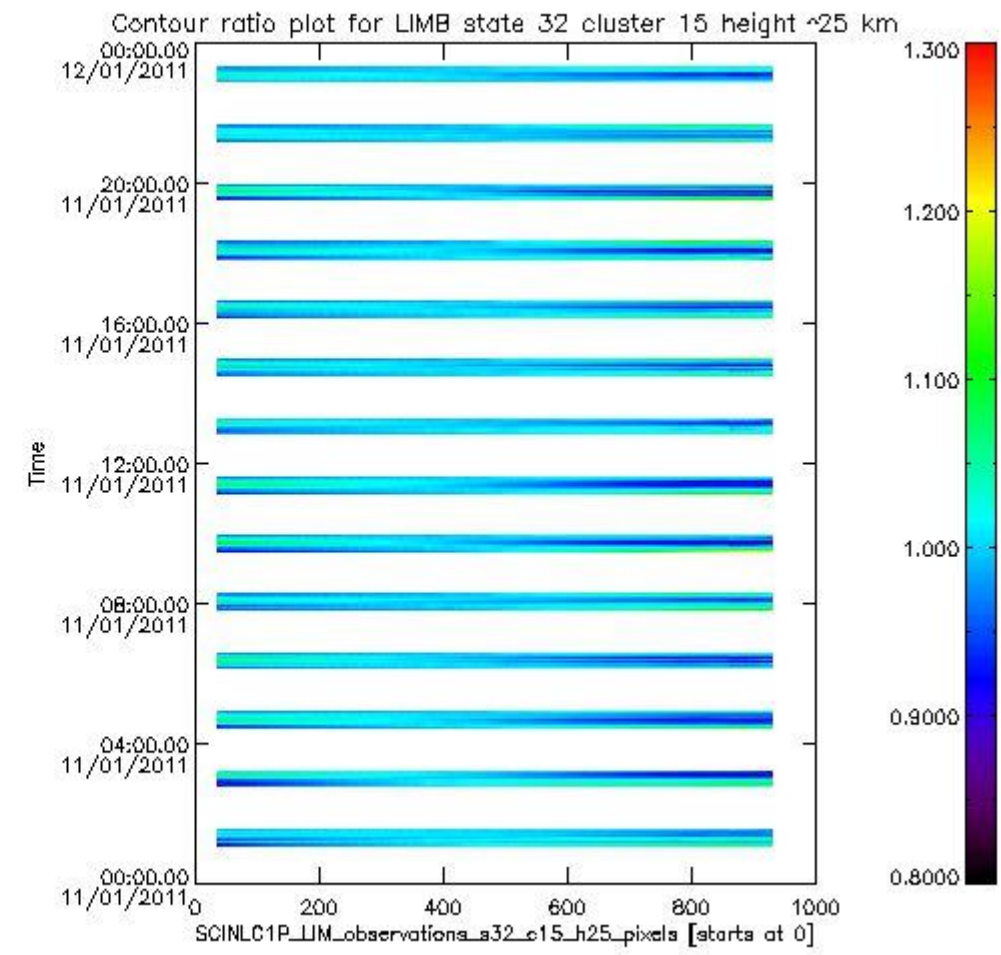
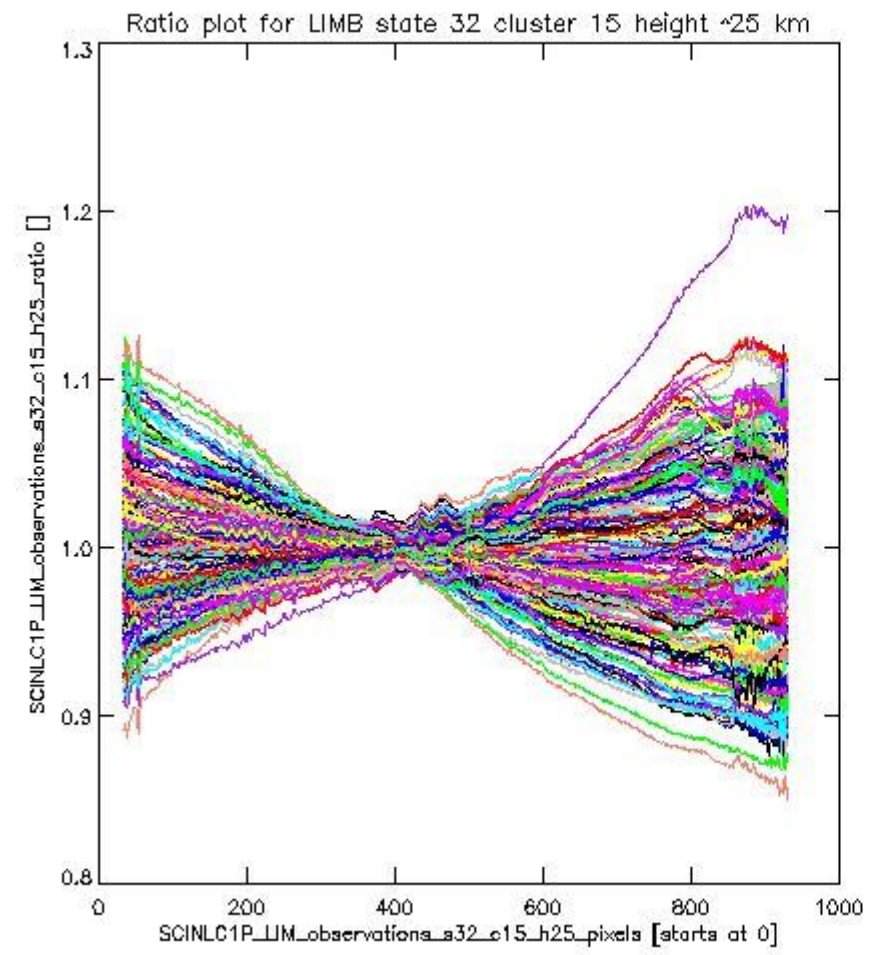
sciamachy_11b_source_packet_report_SCIA_7_04_U_20110111_17.PNG

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	11JAN2011 01:05:34.714
Start time of last sample	11JAN2011 23:16:03.564
Reference period start time	12DEC2010 01:06:23.068
Reference period stop time	10JAN2011 23:52:50.827
Channel number	3
First pixel number (starts at 0)	33
Last pixel number (starts at 0)	929



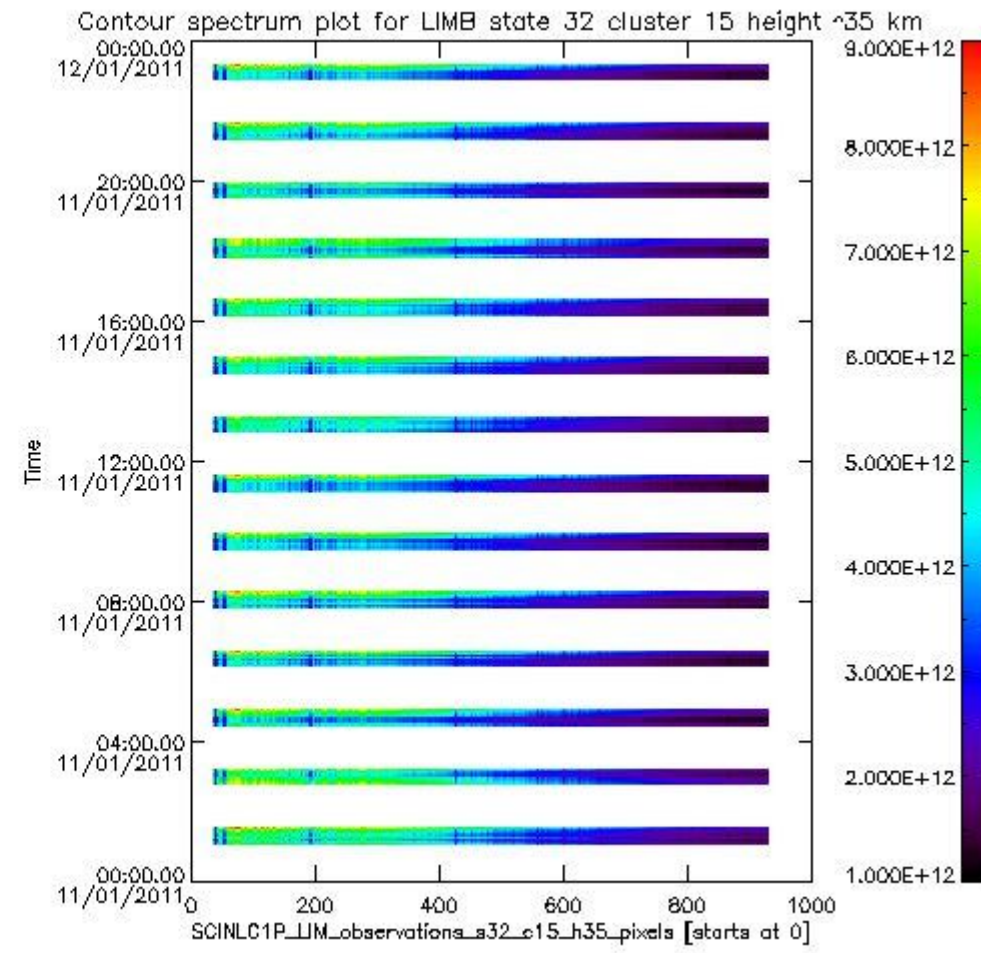
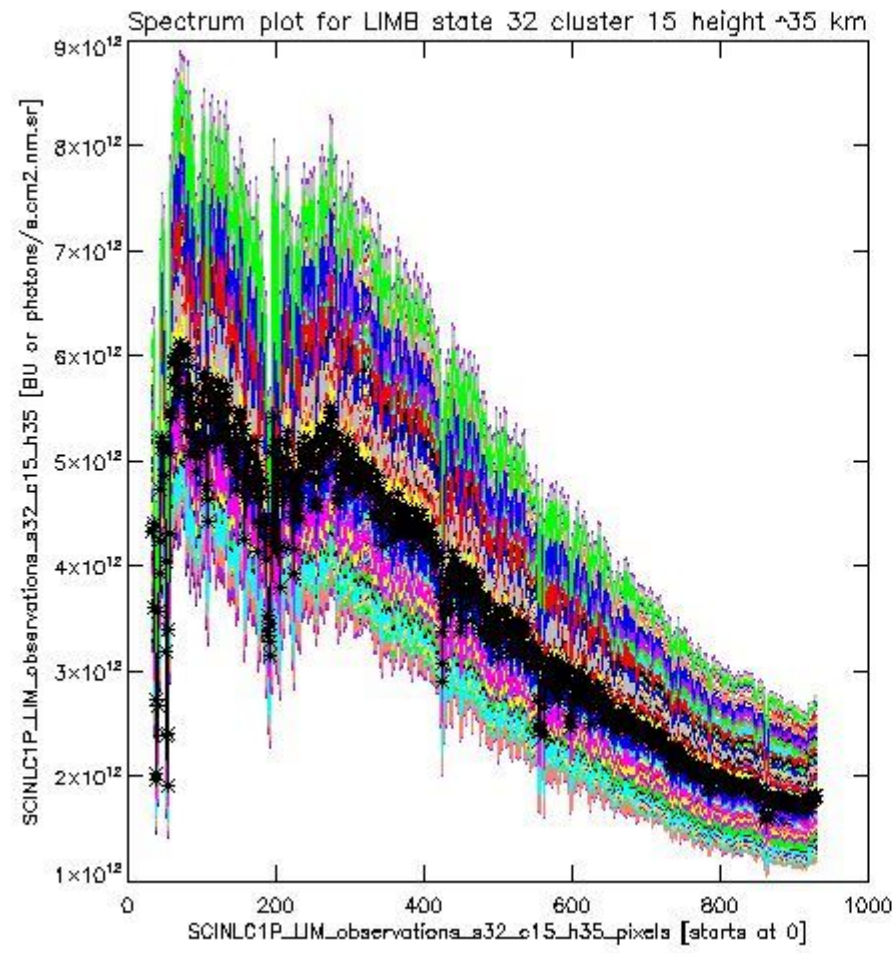
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110111_18.PNG



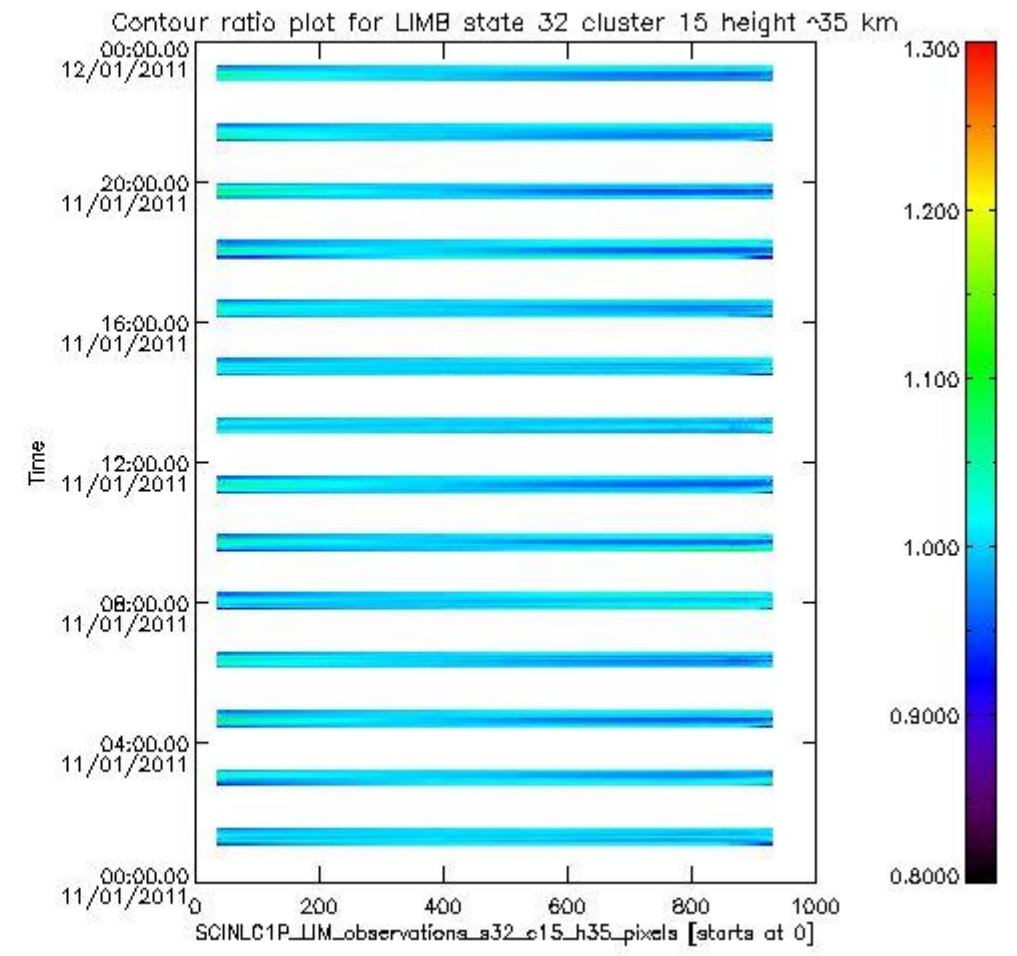
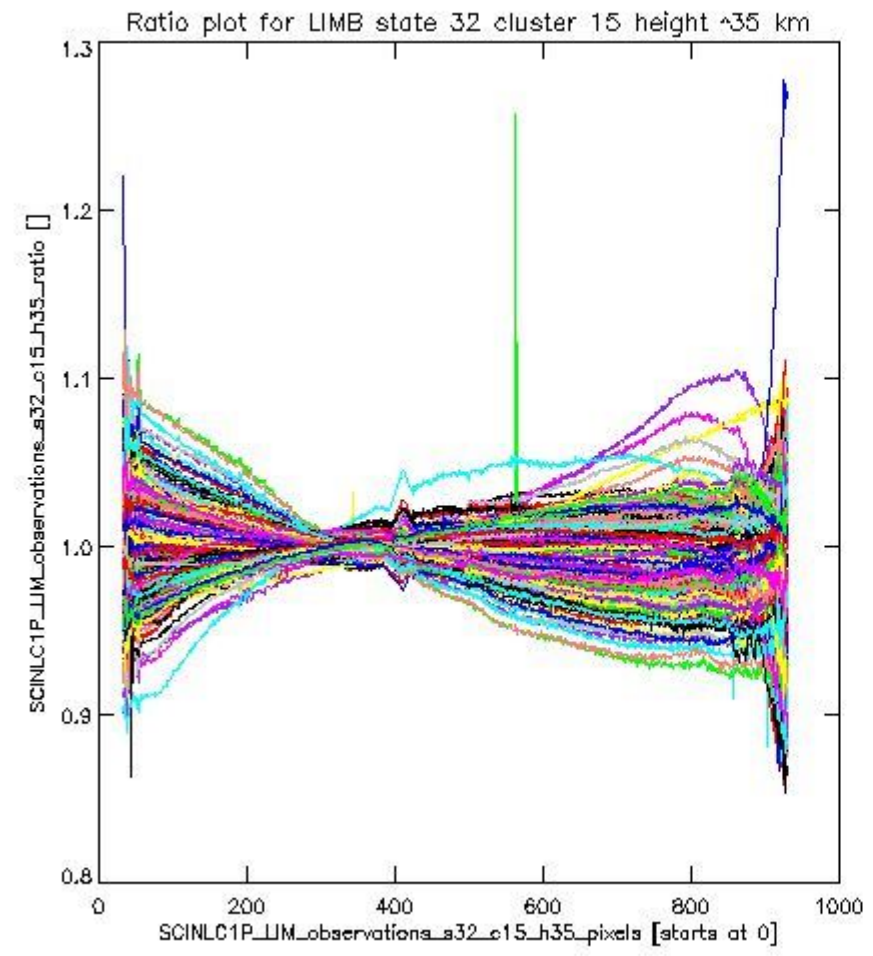
sciamachy_11b_source_packet_report_SCIA_7_04_U_20110111_19.PNG

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	11JAN2011 01:05:34.714
Start time of last sample	11JAN2011 23:16:03.564
Reference period start time	12DEC2010 01:06:23.068
Reference period stop time	10JAN2011 23:52:50.827
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_20110111_20.PNG



sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110111_21.PNG

