

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	07JUN2011 17:39:58
Data source version	SCIA/7.04-U
Processing scope for products	25MAY2011 00:00:00 to 26MAY2011 00:00:00
Start time of first product within scope	24MAY2011 22:44:12
Stop time of last product within scope	26MAY2011 00:58:07
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	25MAY2011 04:18:04.516	25MAY2011 22:49:41.291
1	NADIR	07	09	N/A	25MAY2011 04:18:04.516	25MAY2011 22:49:41.291
2	NADIR	07	15	N/A	25MAY2011 04:18:04.516	25MAY2011 22:49:41.291
3	NADIR	07	24	N/A	25MAY2011 04:18:04.516	25MAY2011 22:49:41.291
4	NADIR	07	55	N/A	25MAY2011 04:18:04.516	25MAY2011 22:49:41.291
5	LIMB	32	09	~19 km	25MAY2011 00:42:23.644	25MAY2011 22:52:52.595
6	LIMB	32	09	~22 km	25MAY2011 00:42:23.644	25MAY2011 22:52:52.595
7	LIMB	32	09	~25 km	25MAY2011 00:42:23.644	25MAY2011 22:52:52.595
8	LIMB	32	15	~22 km	25MAY2011 00:42:23.644	25MAY2011 22:52:52.595
9	LIMB	32	15	~25 km	25MAY2011 00:42:23.644	25MAY2011 22:52:52.595
10	LIMB	32	15	~35 km	25MAY2011 00:42:23.644	25MAY2011 22:52:52.595

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	#cmlprk	#incmpl_rk	Decont
0	SCI_NLC_1CUDPA20110524_223901_000060543102_00418_48277_1629.N1	24MAY2011 22:44:12	24MAY2011 23:40:44	0	0	31	0	0	37	0	0	
1	SCI_NLC_1CUDPA20110525_002425_000056993102_00419_48278_1630.N1	25MAY2011 00:24:25	25MAY2011 01:20:03	0	0	30	0	0	38	0	0	
2	SCI_NLC_1CUDPA20110525_015928_000060543102_00420_48279_1631.N1	25MAY2011 02:04:39	25MAY2011 03:01:11	0	0	31	0	0	37	0	0	
3	SCI_NLC_1CUDPA20110525_034453_000056993102_00421_48280_1632.N1	25MAY2011 03:44:53	25MAY2011 04:55:22	0	36	30	0	0	1	0	0	
4	SCI_NLC_1CUDPA20110525_051956_000060543102_00422_48281_1633.N1	25MAY2011 05:25:07	25MAY2011 06:35:21	0	35	31	0	0	1	0	0	
5	SCI_NLC_1CUDPA20110525_070521_000056993102_00423_48282_1634.N1	25MAY2011 07:05:21	25MAY2011 08:15:50	0	36	30	0	0	1	0	0	

6	SCI_NLC_1CUDPA20110525_084023_000060543102_00424_48283_1653.N1	25MAY2011 08:45:34	25MAY2011 09:55:49	0	35	31	0	0	1	0	0	
7	SCI_NLC_1CUDPA20110525_102548_000056983102_00425_48284_1635.N1	25MAY2011 10:25:48	25MAY2011 11:36:17	0	36	30	0	0	1	0	0	
8	SCI_NLC_1CUDPA20110525_120051_000060543102_00426_48285_1637.N1	25MAY2011 12:06:02	25MAY2011 13:16:16	0	35	31	0	0	1	0	0	
9	SCI_NLC_1CUDPA20110525_134615_000056983102_00427_48286_1638.N1	25MAY2011 13:46:15	25MAY2011 14:56:44	0	36	30	0	0	1	0	0	
10	SCI_NLC_1CUDPA20110525_152118_000060543102_00428_48287_1639.N1	25MAY2011 15:26:29	25MAY2011 16:36:44	0	35	31	0	0	1	0	0	
11	SCI_NLC_1CUDPA20110525_170643_000056993102_00429_48288_1642.N1	25MAY2011 17:06:43	25MAY2011 18:17:21	0	36	30	0	1	1	0	0	
12	SCI_NLC_1CUDPA20110525_184146_000060543102_00430_48289_1644.N1	25MAY2011 18:46:57	25MAY2011 19:57:21	0	35	31	0	1	1	0	0	
13	SCI_NLC_1CUDPA20110525_202711_000056983102_00431_48290_1647.N1	25MAY2011 20:27:11	25MAY2011 21:37:40	0	36	30	0	0	1	0	0	
14	SCI_NLC_1CUDPA20110525_220213_000060543103_00001_48291_1650.N1	25MAY2011 22:07:25	25MAY2011 23:17:39	0	35	31	0	0	1	0	0	
15	SCI_NLC_1CUDPA20110525_234738_000056983103_00002_48292_1651.N1	25MAY2011 23:47:38	26MAY2011 00:58:07	0	36	30	0	0	1	0	0	

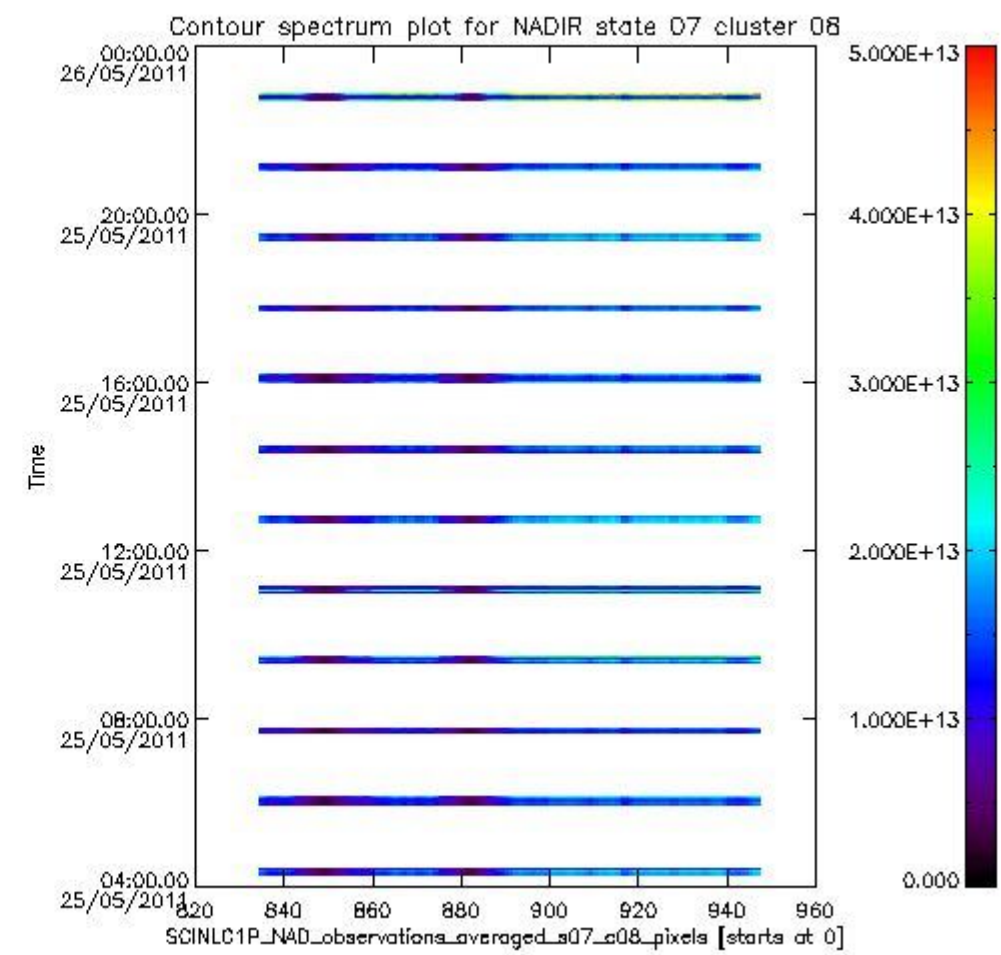
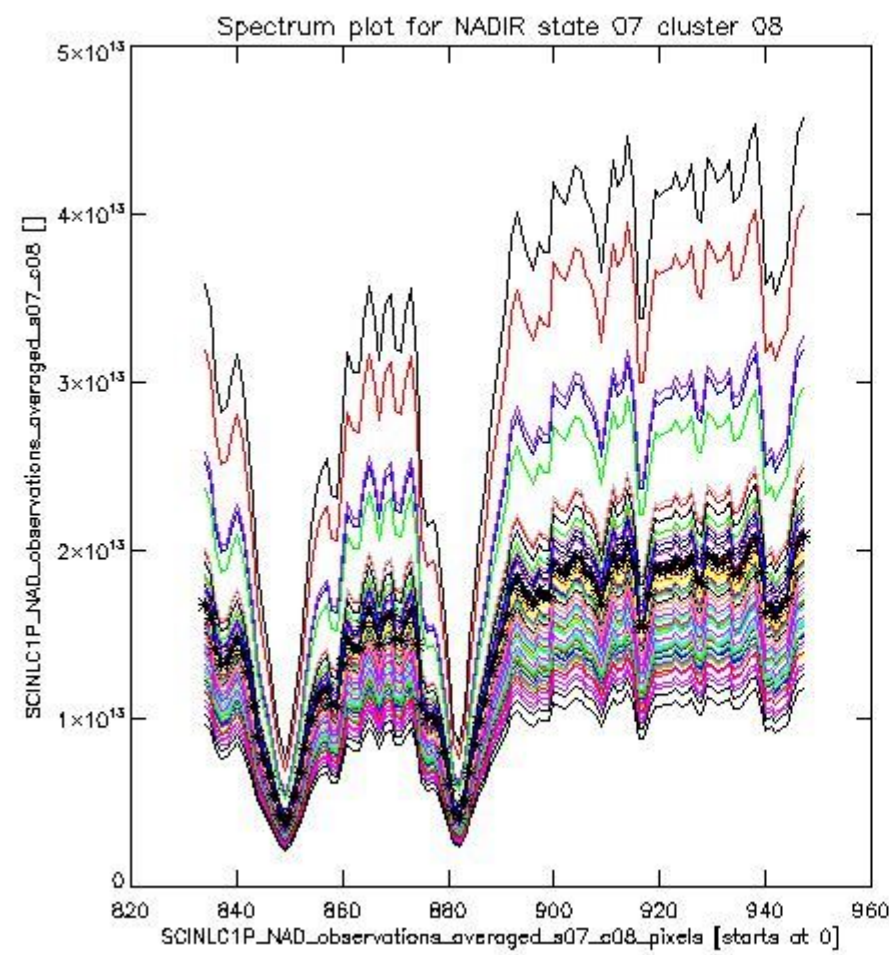
1.2 Source packet monitoring

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:

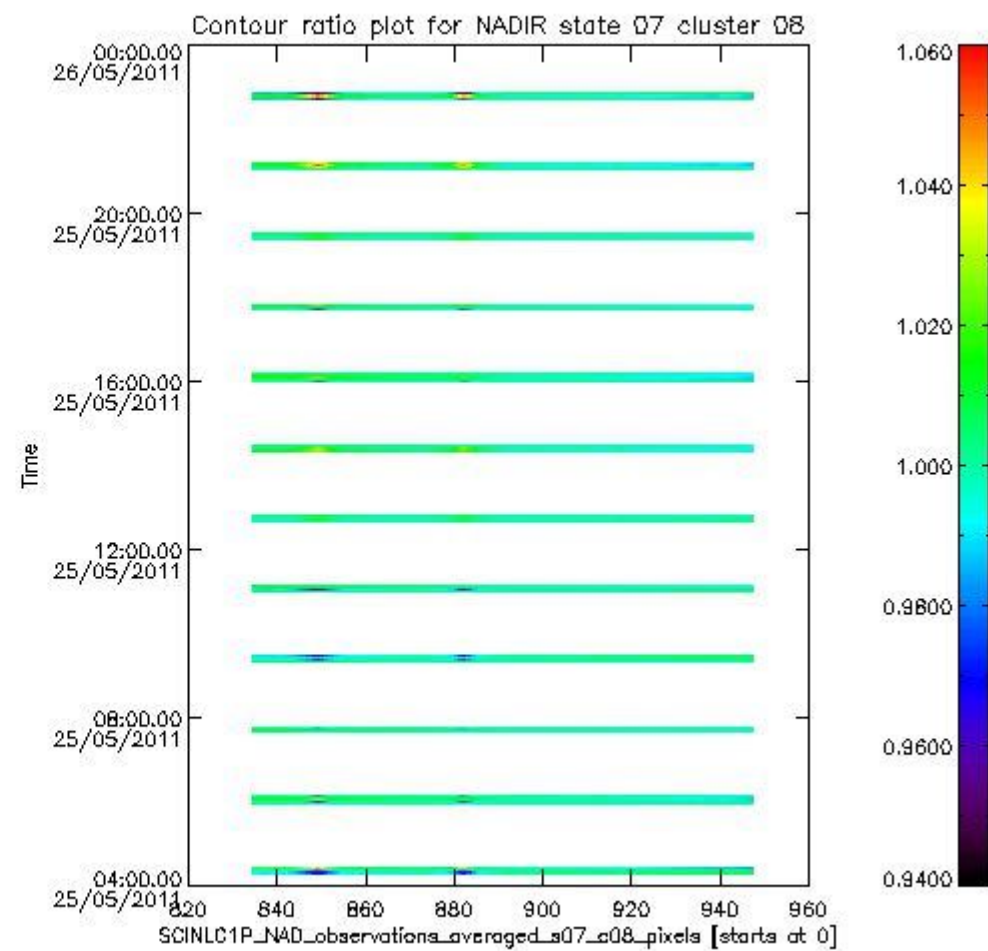
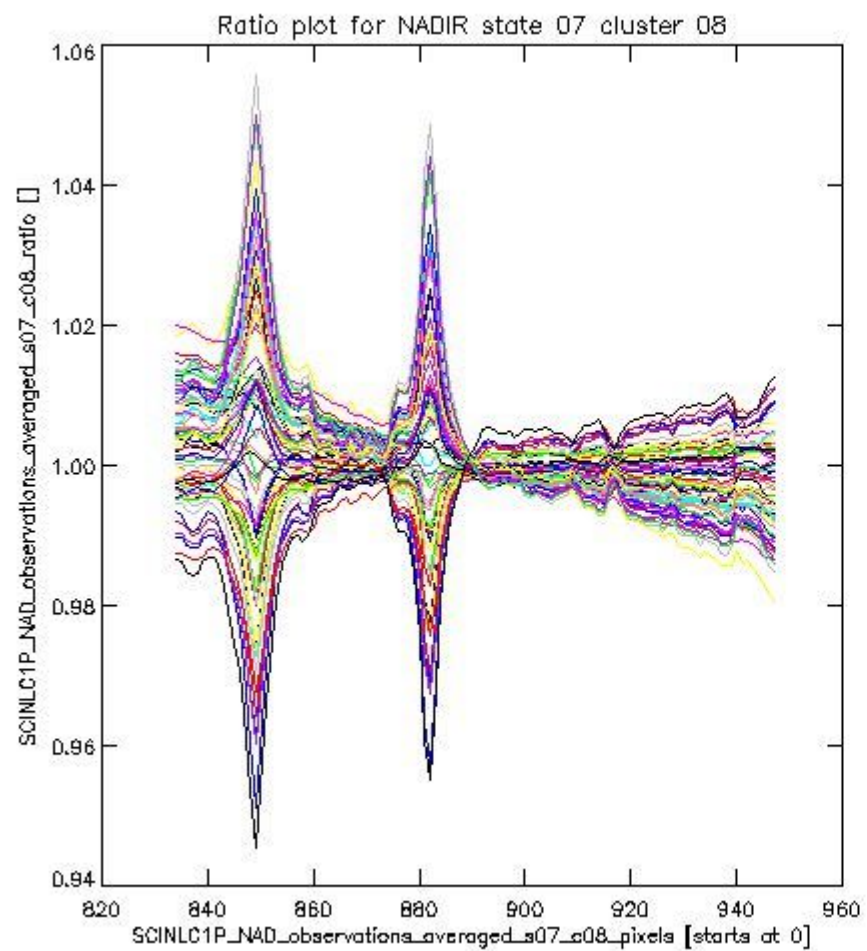
- A plot that shows all calibrated averaged spectra vs. pixel number as 2D-profiles. Each line is an average spectrum for a single state occurrence. For Limb modes, the average is performed on spectra recorded at a specific height. The reference spectrum that is used for comparison is also shown as a 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	25MAY2011 04:18:04.516
Start time of last sample	25MAY2011 22:49:41.291
Reference period start time	25APR2011 00:58:01.385
Reference period stop time	24MAY2011 21:45:20.580
Channel number	2
First pixel number (starts at 0)	834
Last pixel number (starts at 0)	947



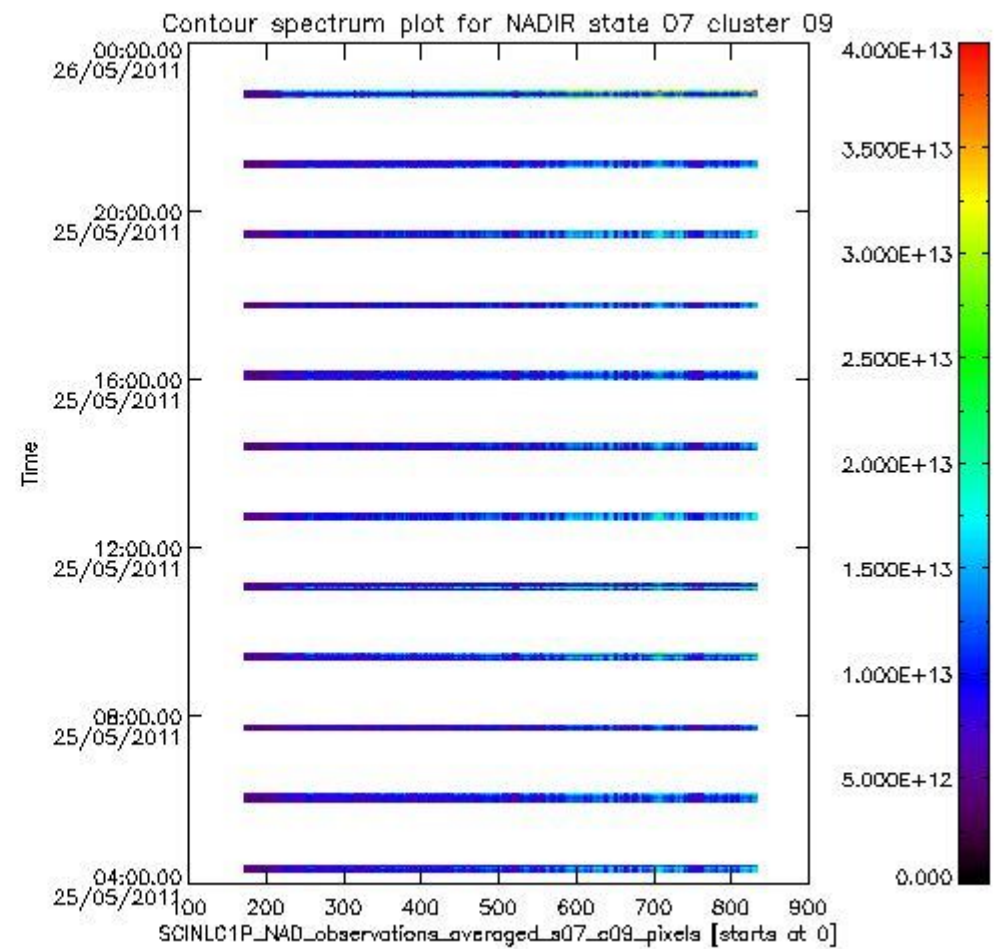
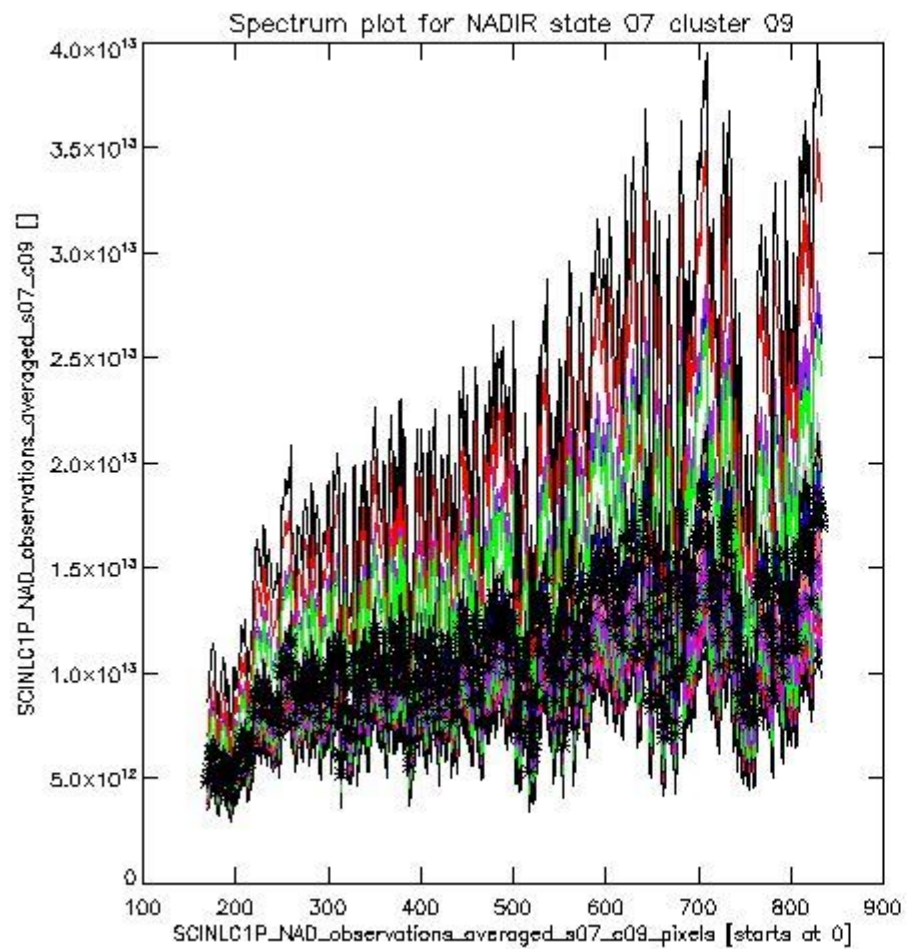
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110525_0.PNG



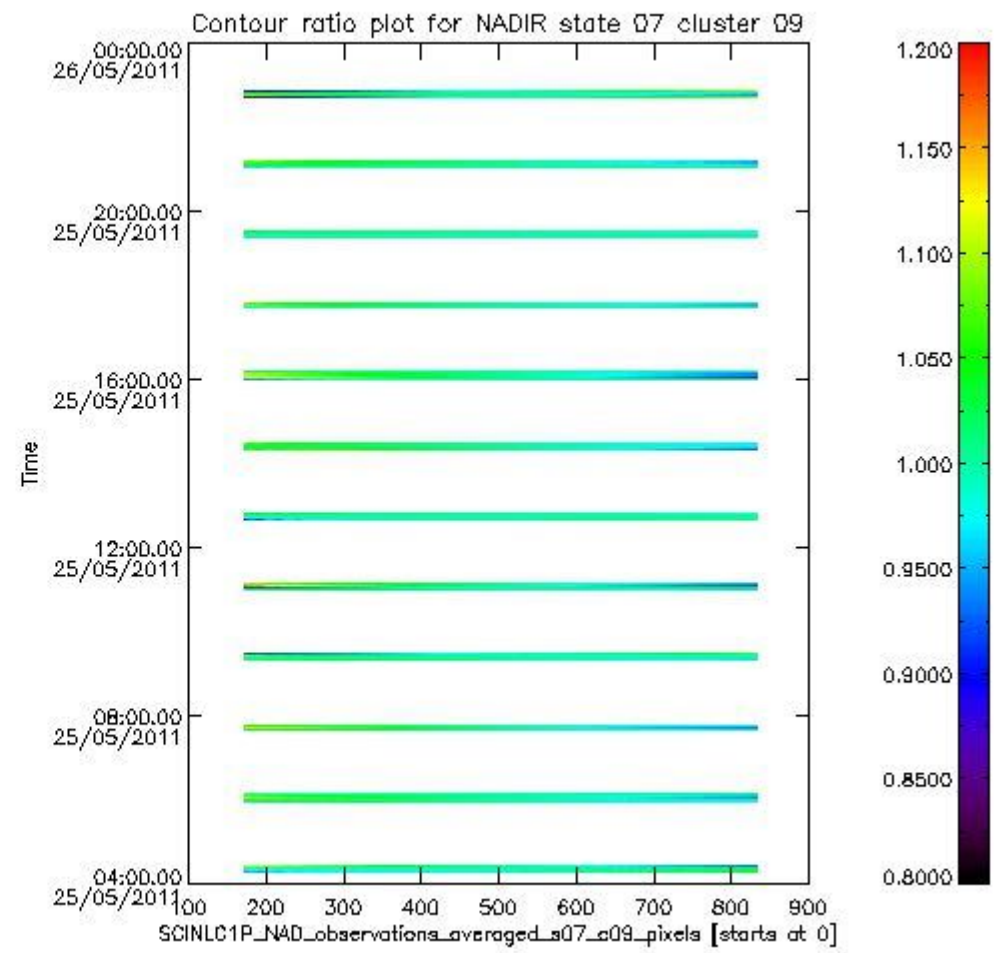
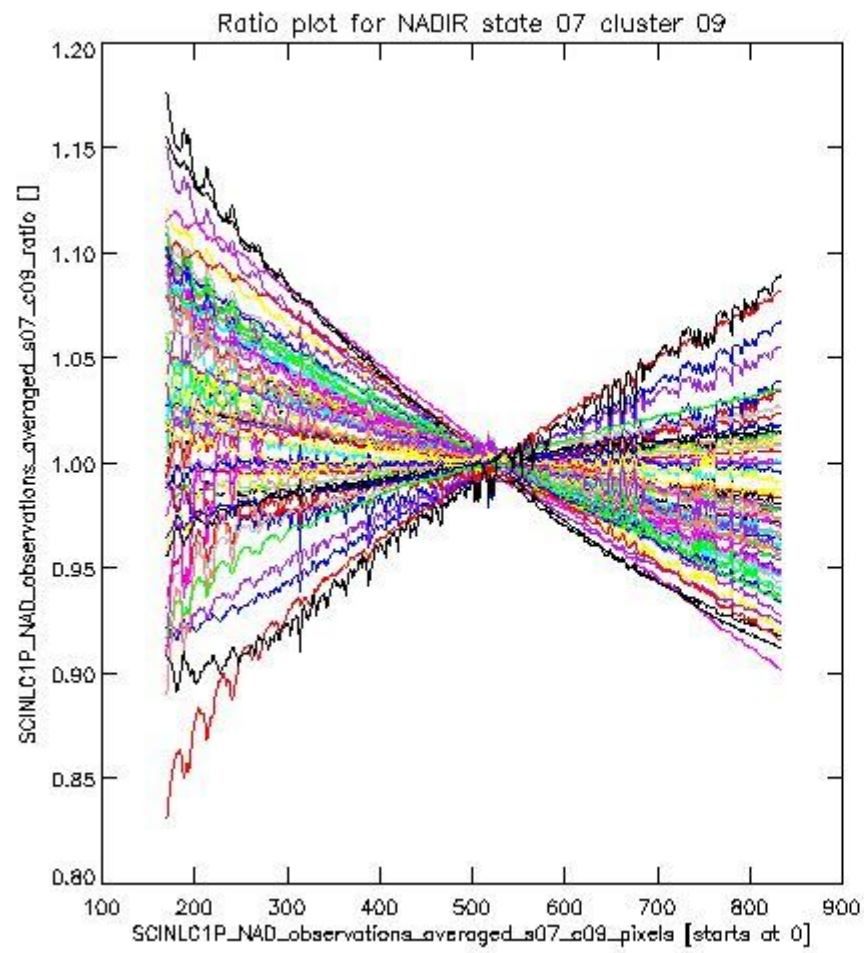
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110525_1.PNG

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	25MAY2011 04:18:04.516
Start time of last sample	25MAY2011 22:49:41.291
Reference period start time	25APR2011 00:58:01.385
Reference period stop time	24MAY2011 21:45:20.580
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	833



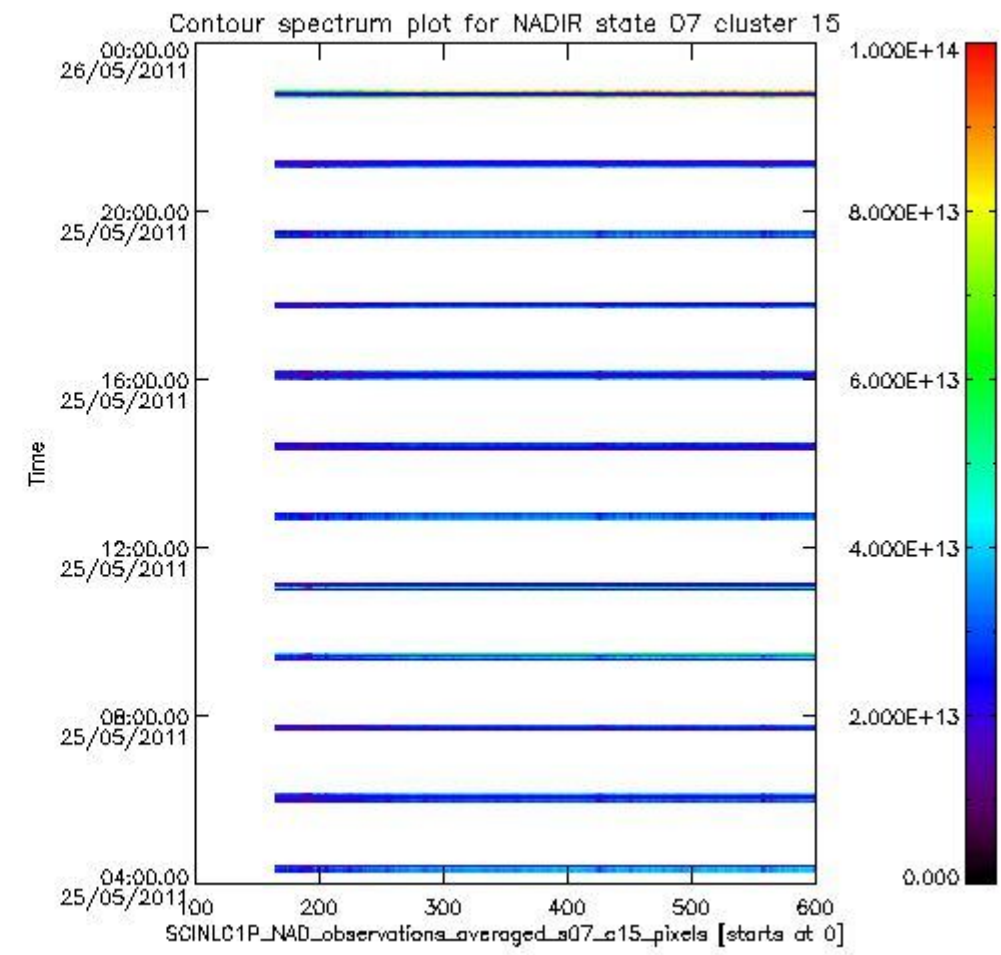
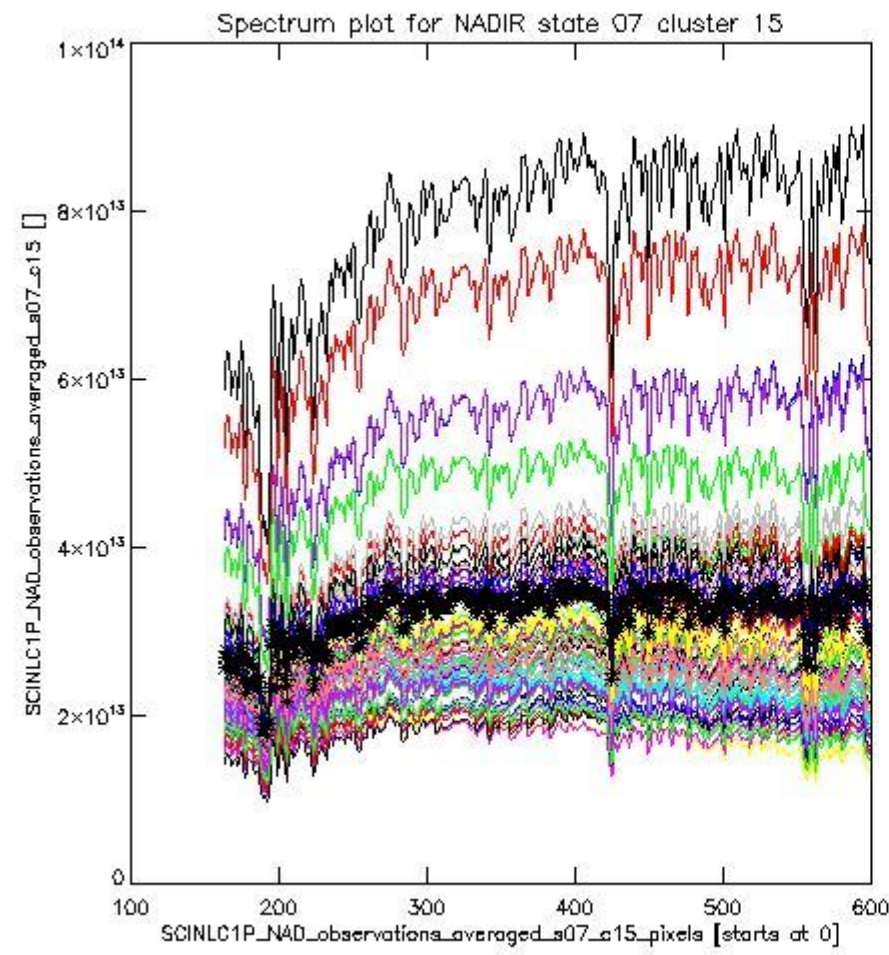
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110525_2.PNG



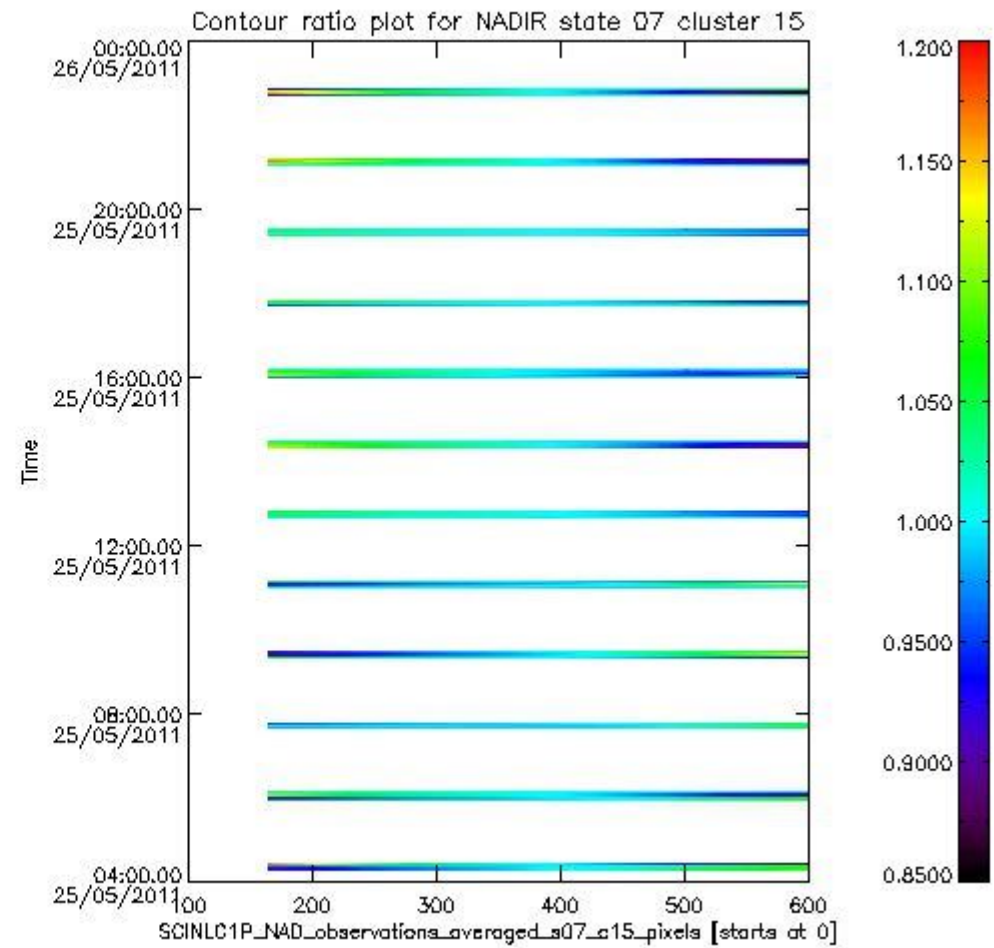
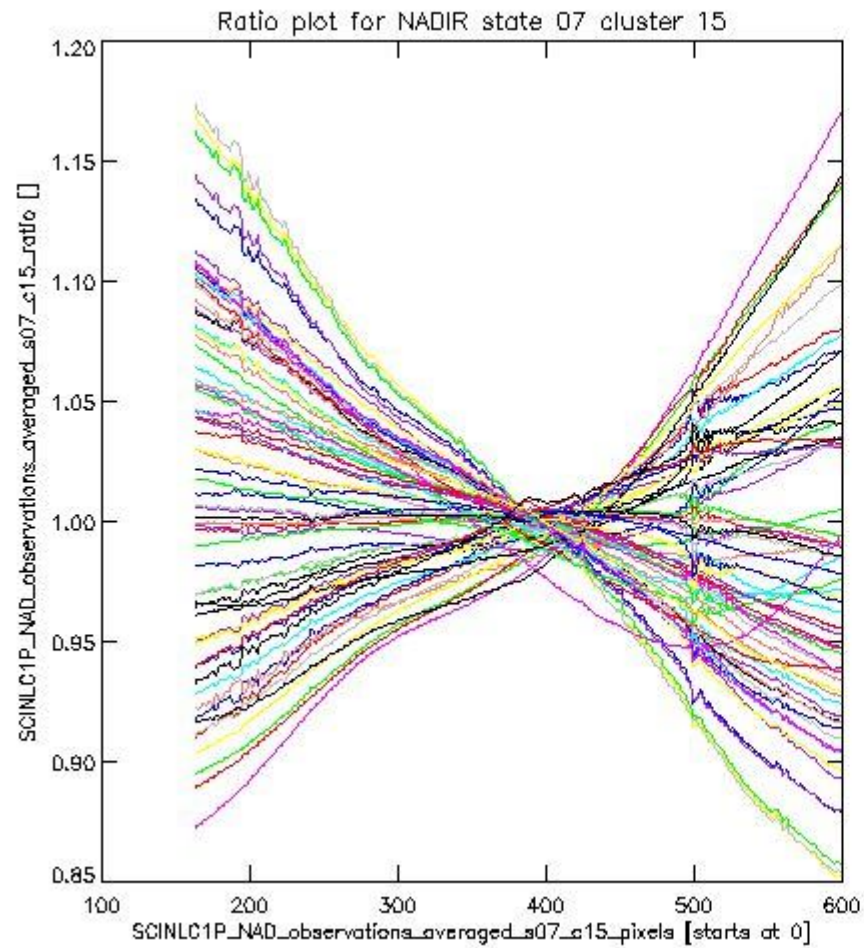
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110525_3.PNG

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	25MAY2011 04:18:04.516
Start time of last sample	25MAY2011 22:49:41.291
Reference period start time	25APR2011 00:58:01.385
Reference period stop time	24MAY2011 21:45:20.580
Channel number	3
First pixel number (starts at 0)	163
Last pixel number (starts at 0)	598



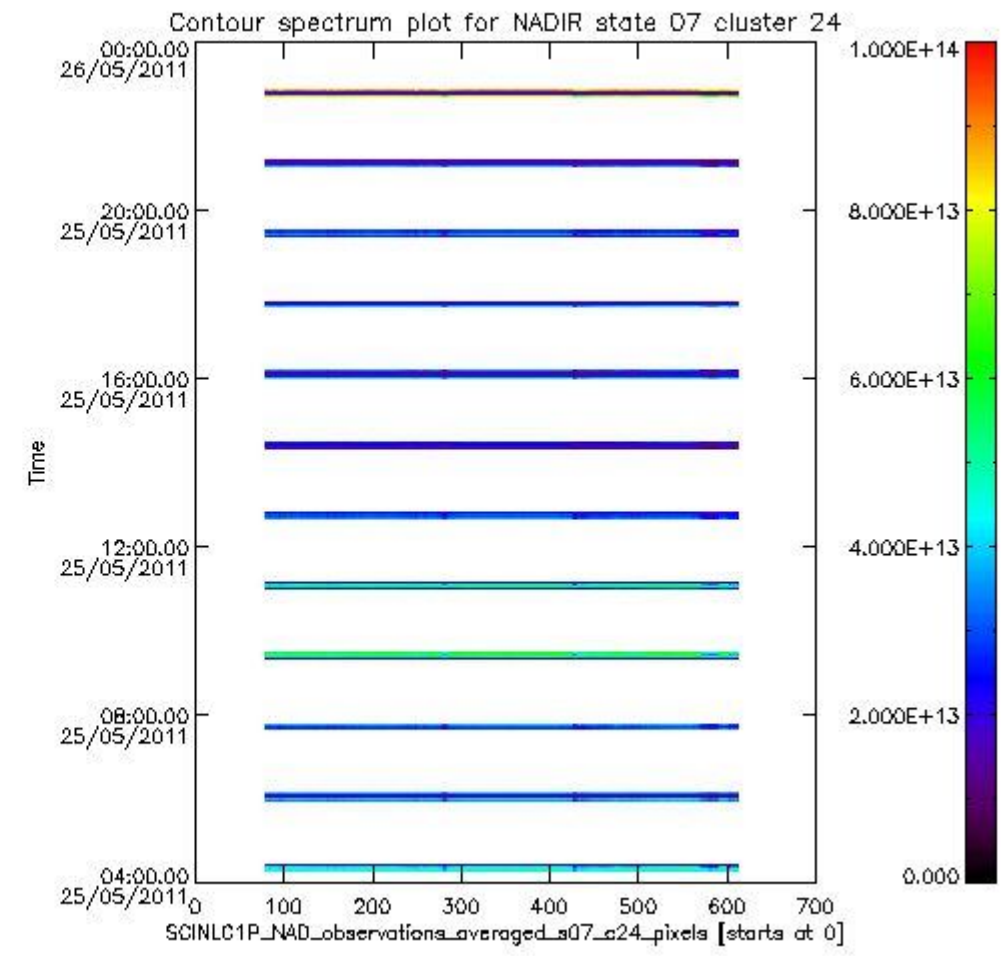
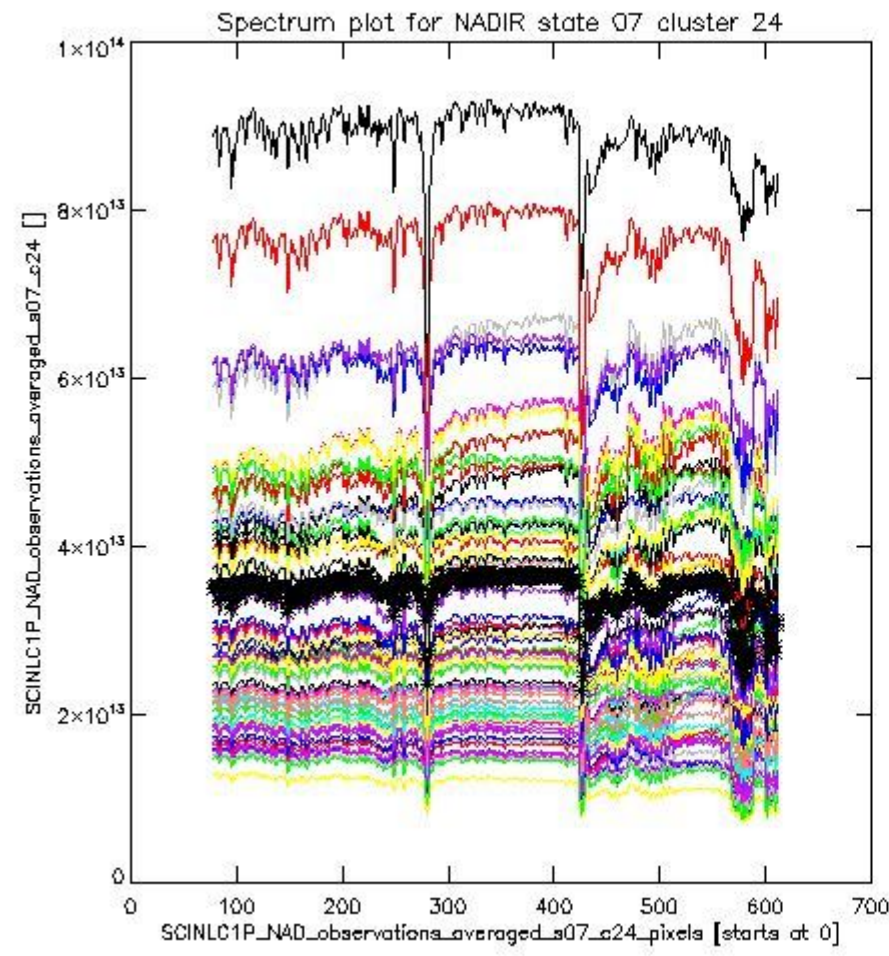
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110525_4.PNG



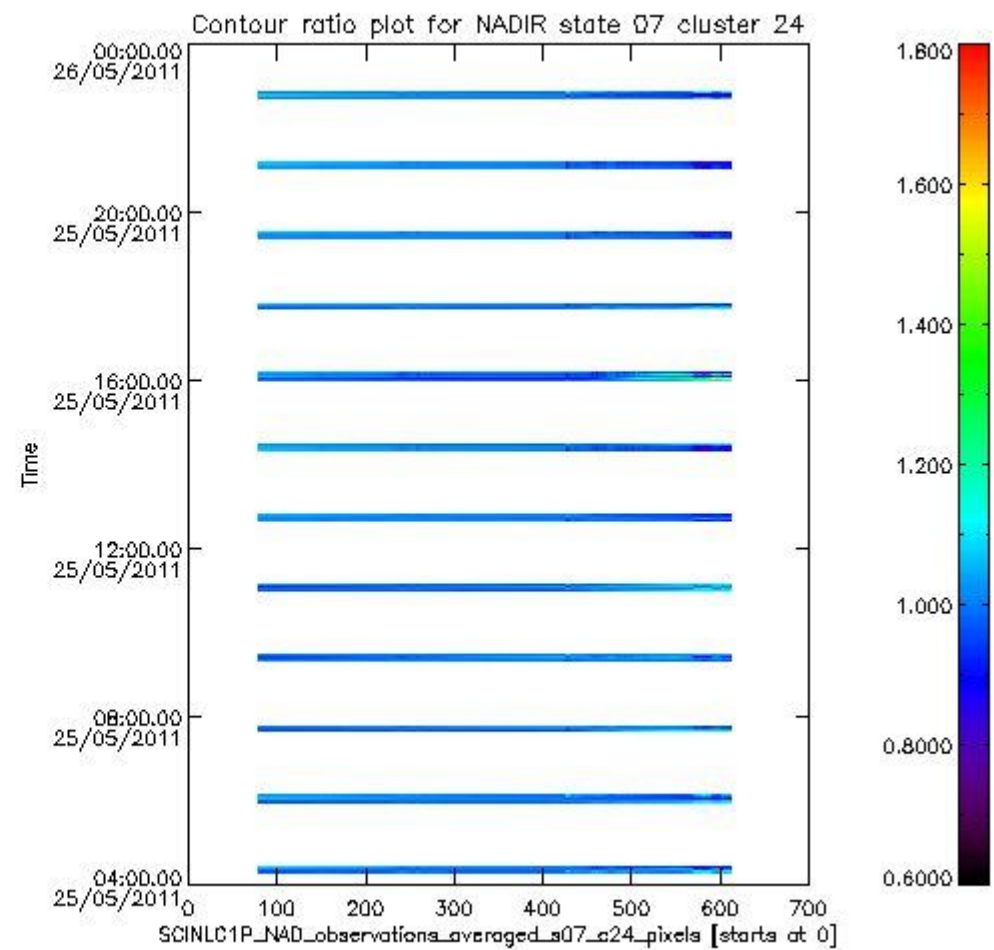
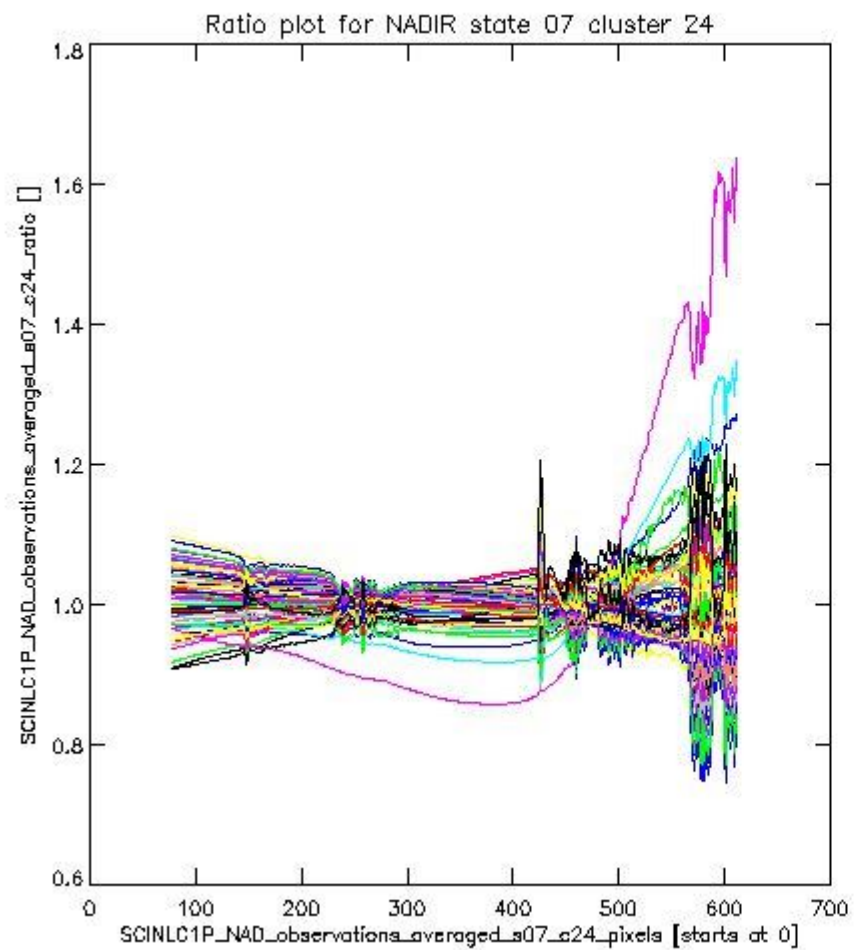
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110525_5.PNG

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	25MAY2011 04:18:04.516
Start time of last sample	25MAY2011 22:49:41.291
Reference period start time	25APR2011 00:58:01.385
Reference period stop time	24MAY2011 21:45:20.580
Channel number	4
First pixel number (starts at 0)	78
Last pixel number (starts at 0)	612



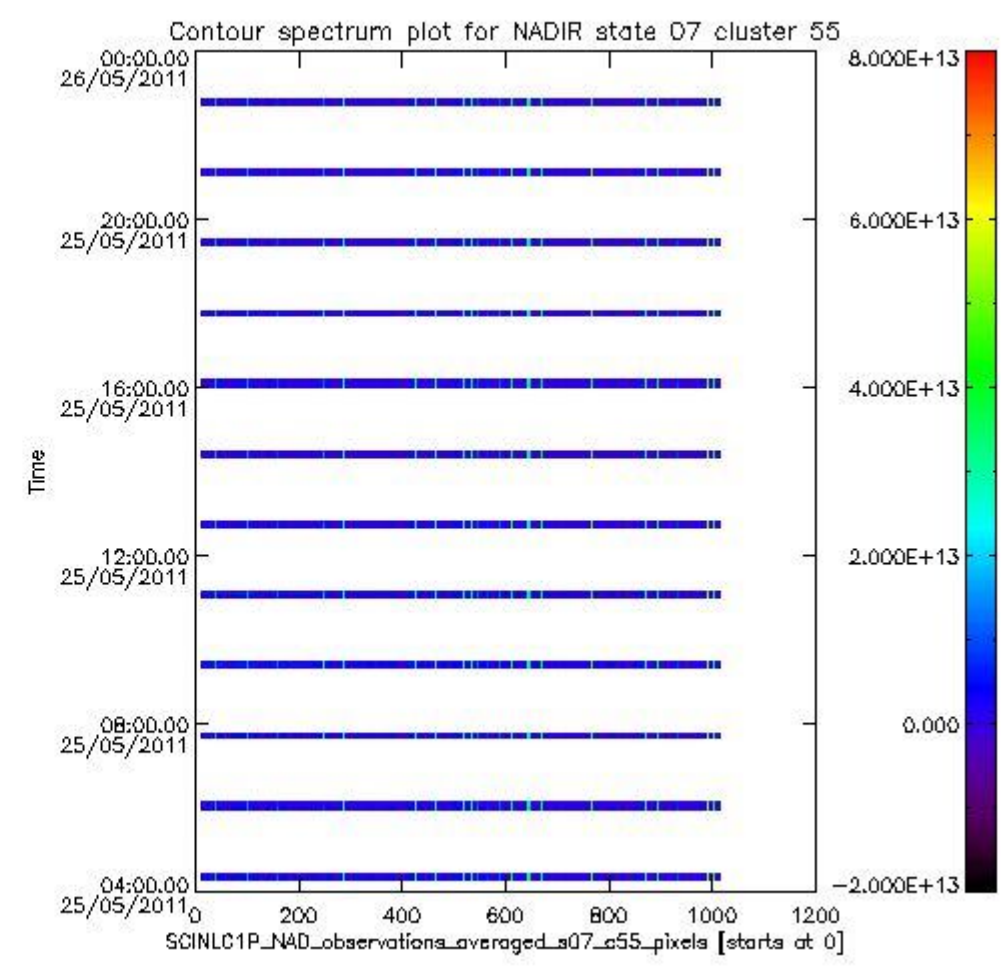
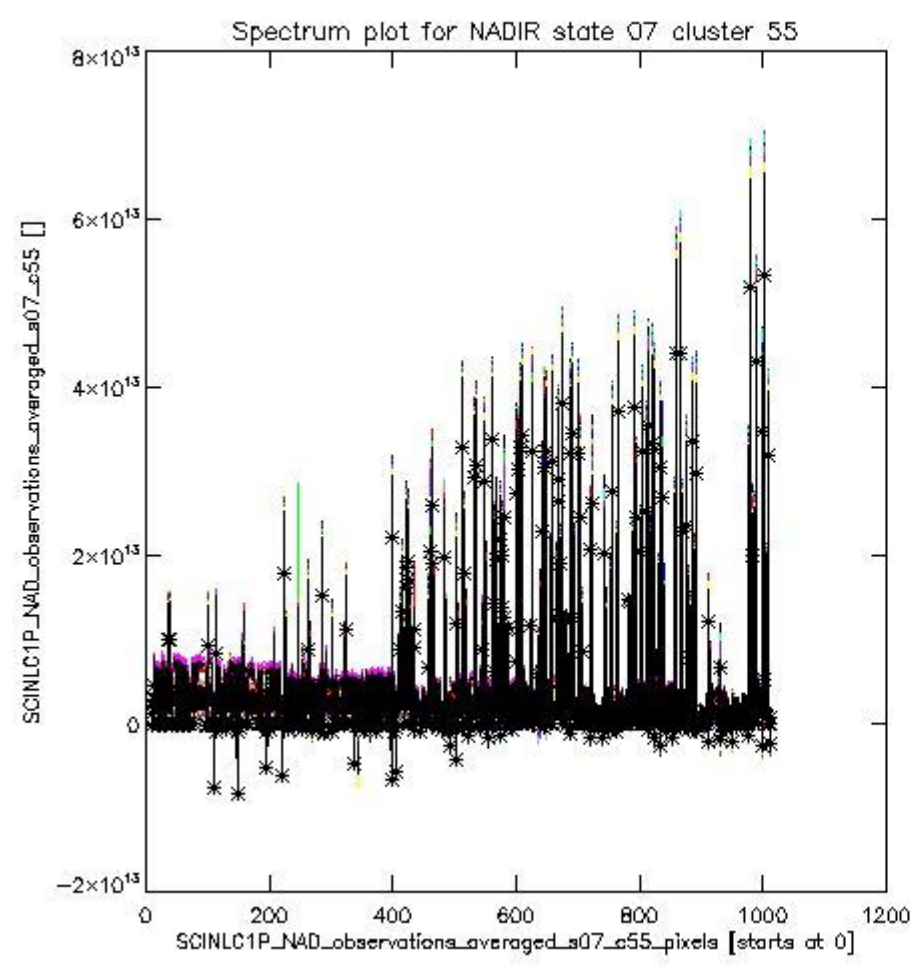
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110525_6.PNG



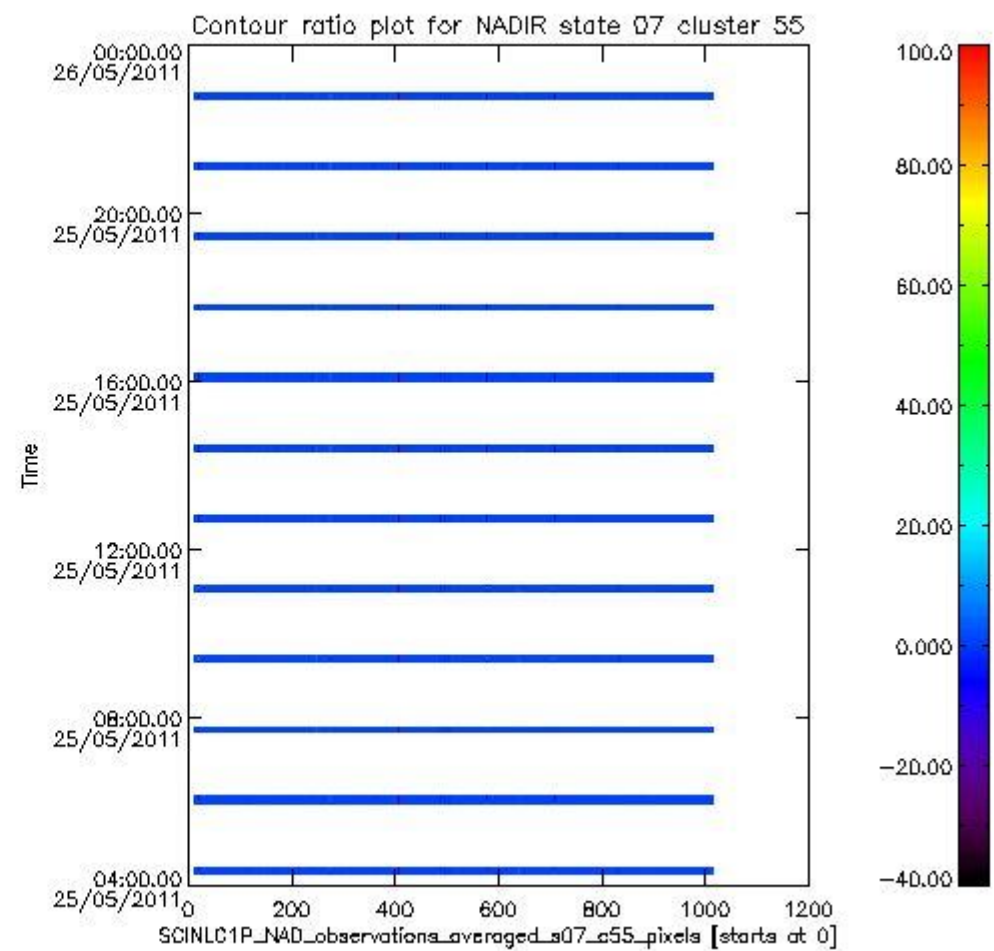
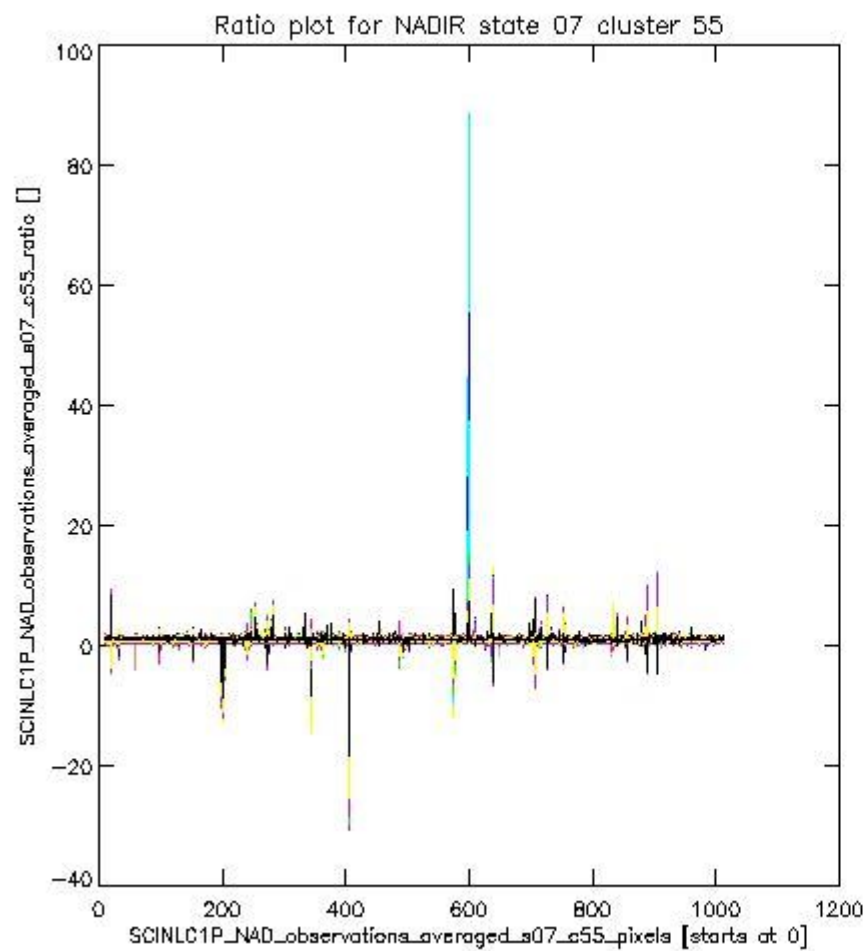
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110525_7.PNG

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	25MAY2011 04:18:04.516
Start time of last sample	25MAY2011 22:49:41.291
Reference period start time	25APR2011 00:58:01.385
Reference period stop time	24MAY2011 21:45:20.580
Channel number	8
First pixel number (starts at 0)	10
Last pixel number (starts at 0)	1013



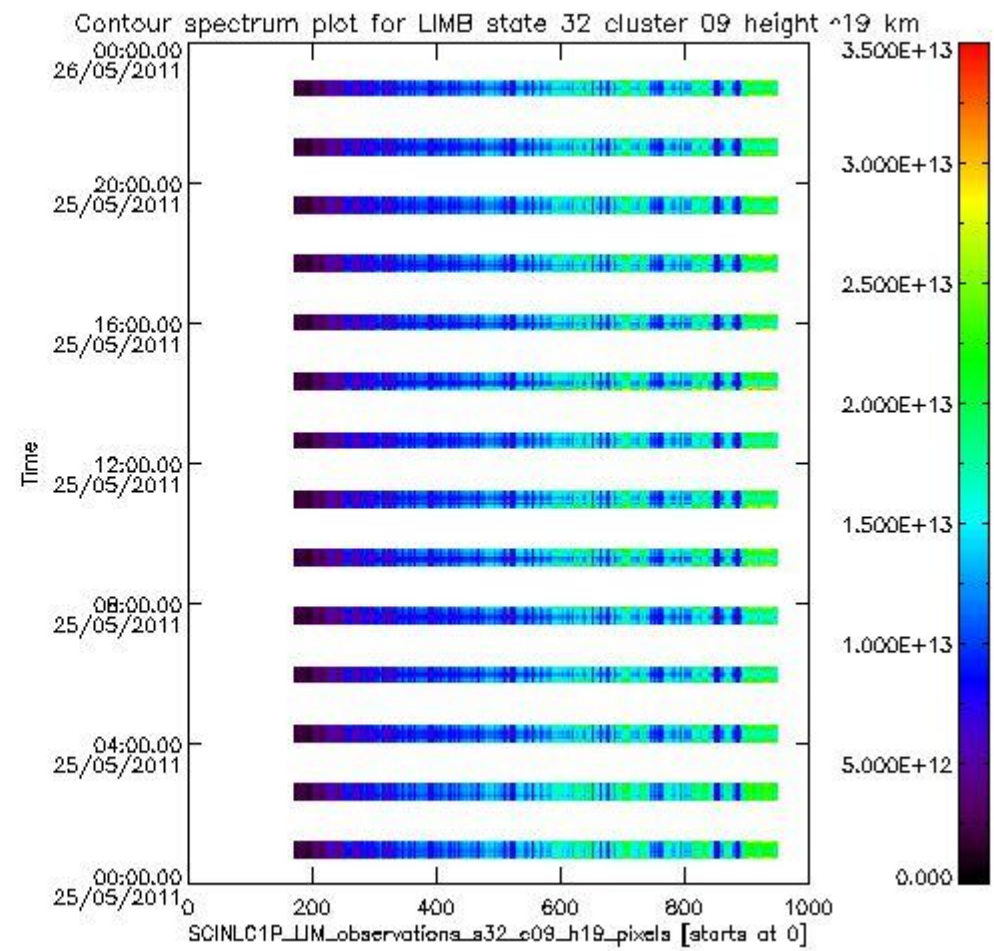
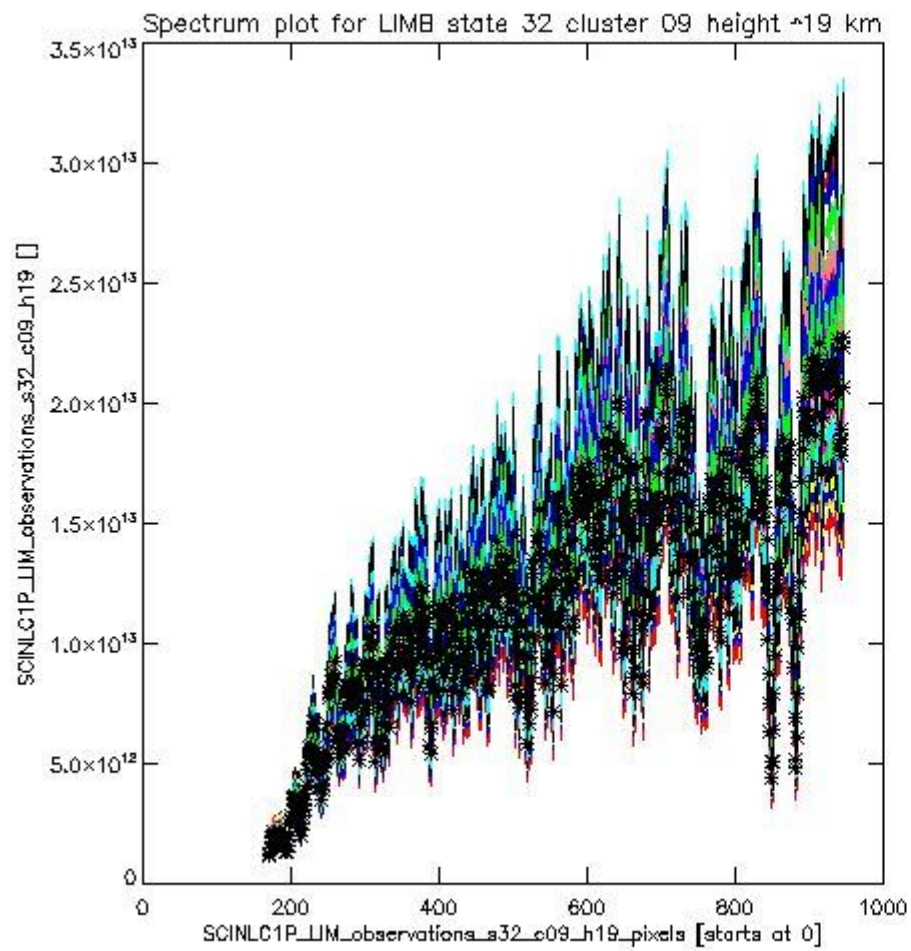
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110525_8.PNG



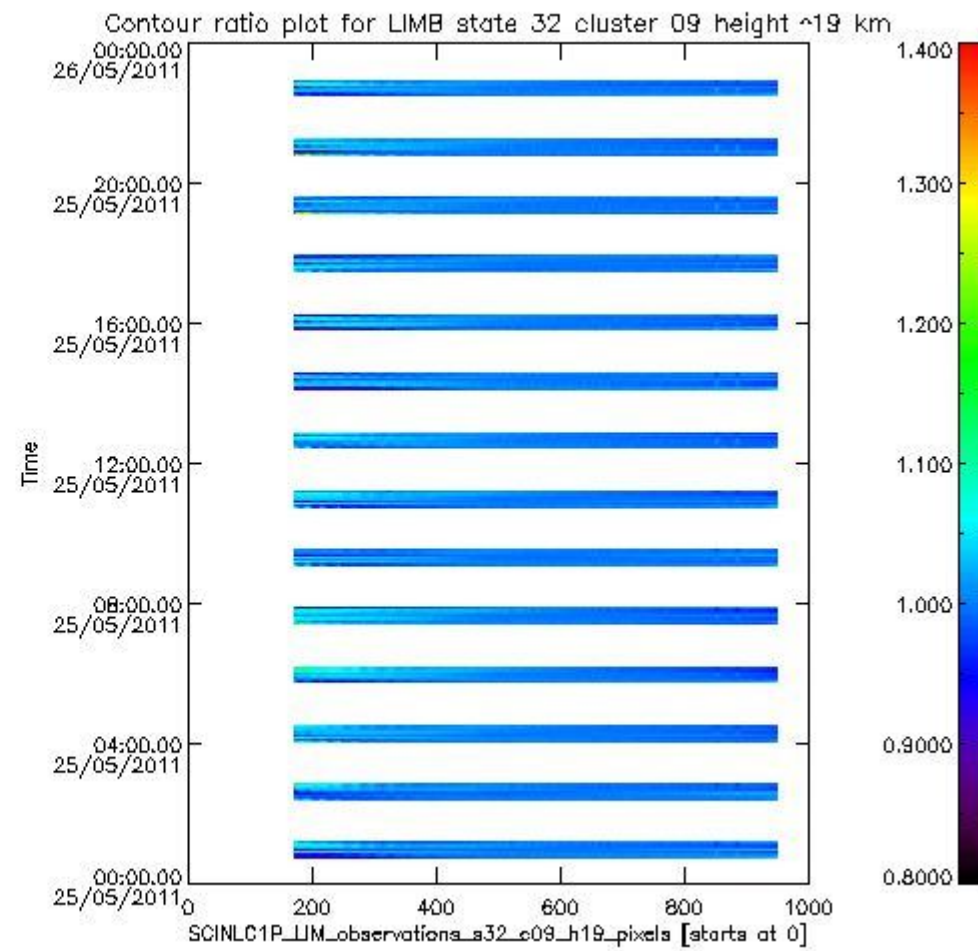
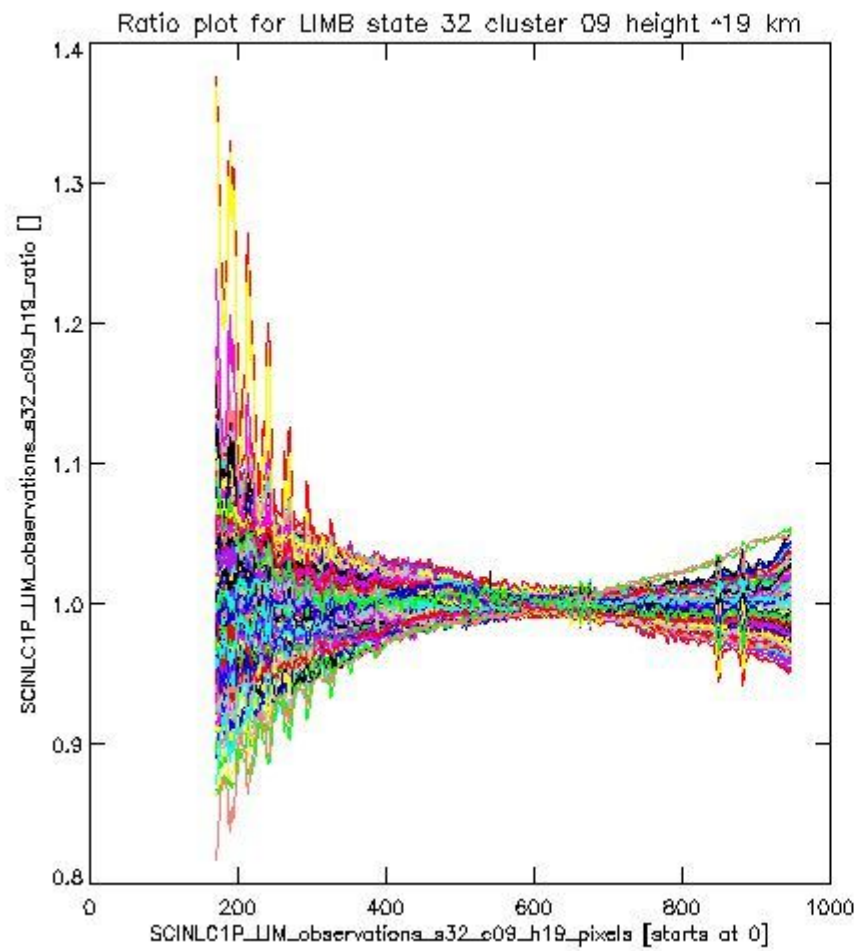
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110525_9.PNG

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	25MAY2011 00:42:23.644
Start time of last sample	25MAY2011 22:52:52.595
Reference period start time	25APR2011 00:44:50.752
Reference period stop time	24MAY2011 23:29:39.772
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	947



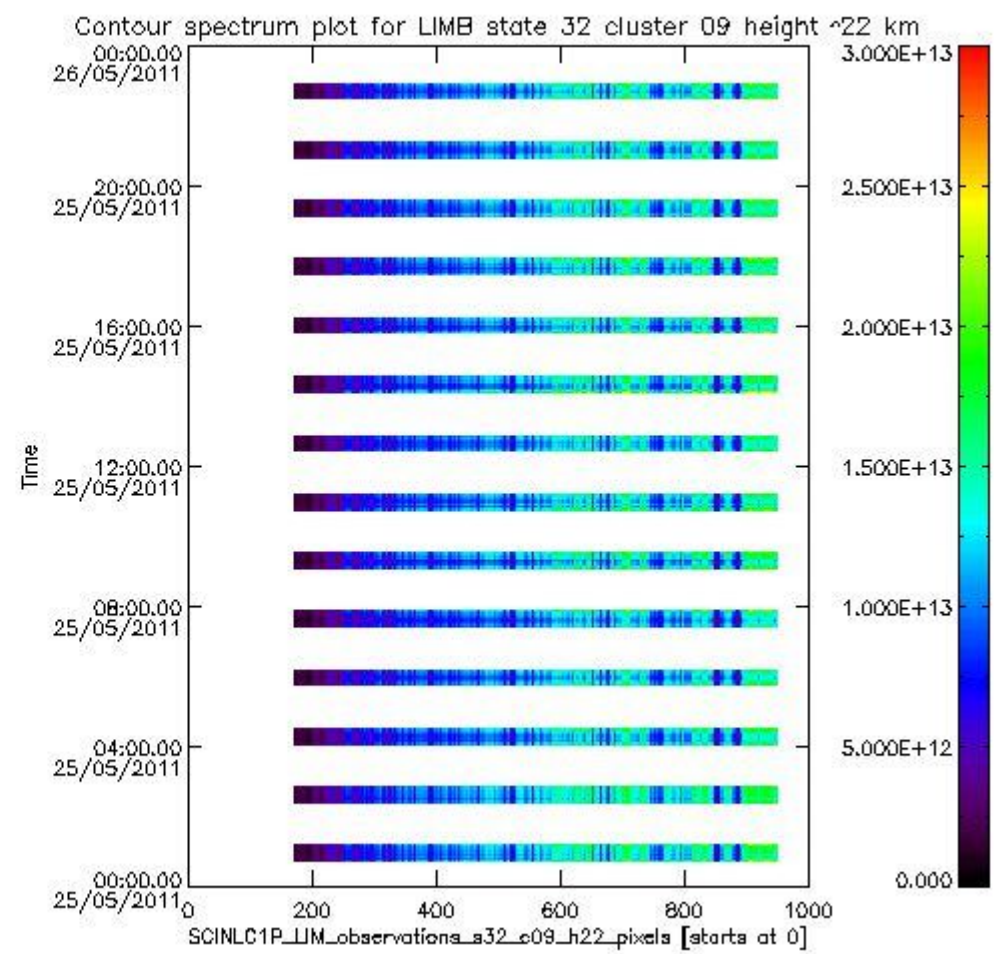
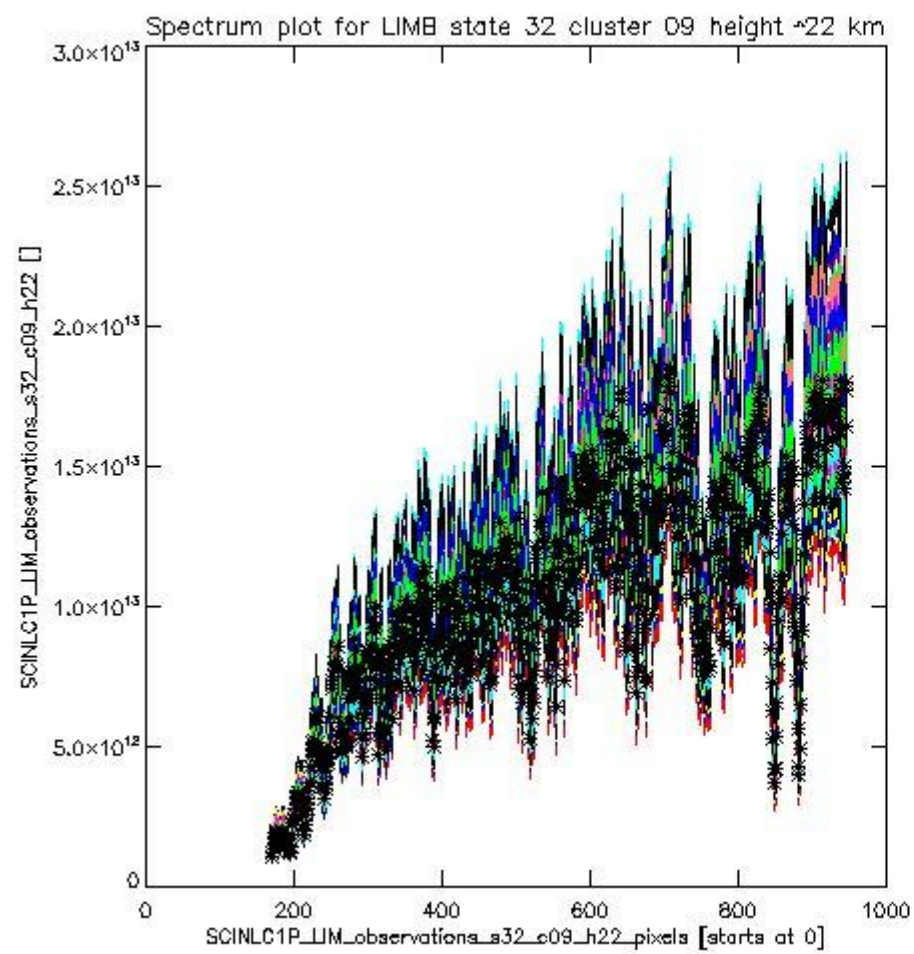
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110525_10.PNG



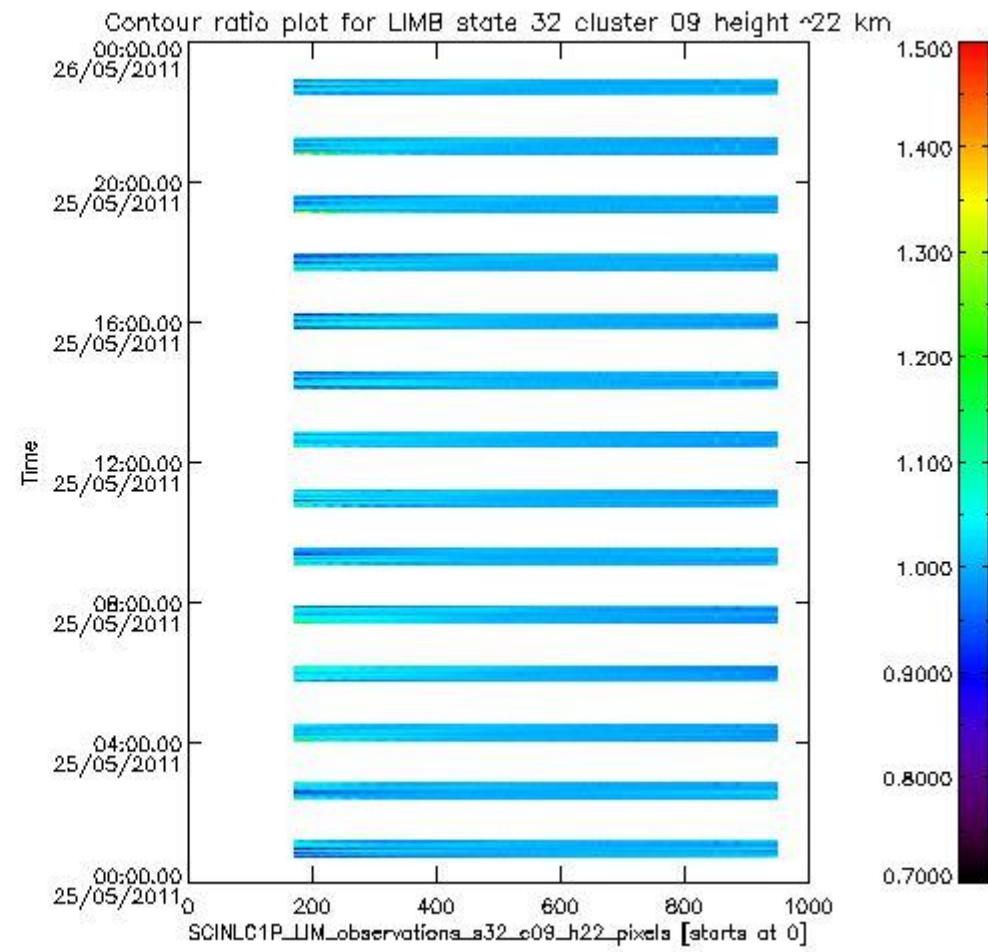
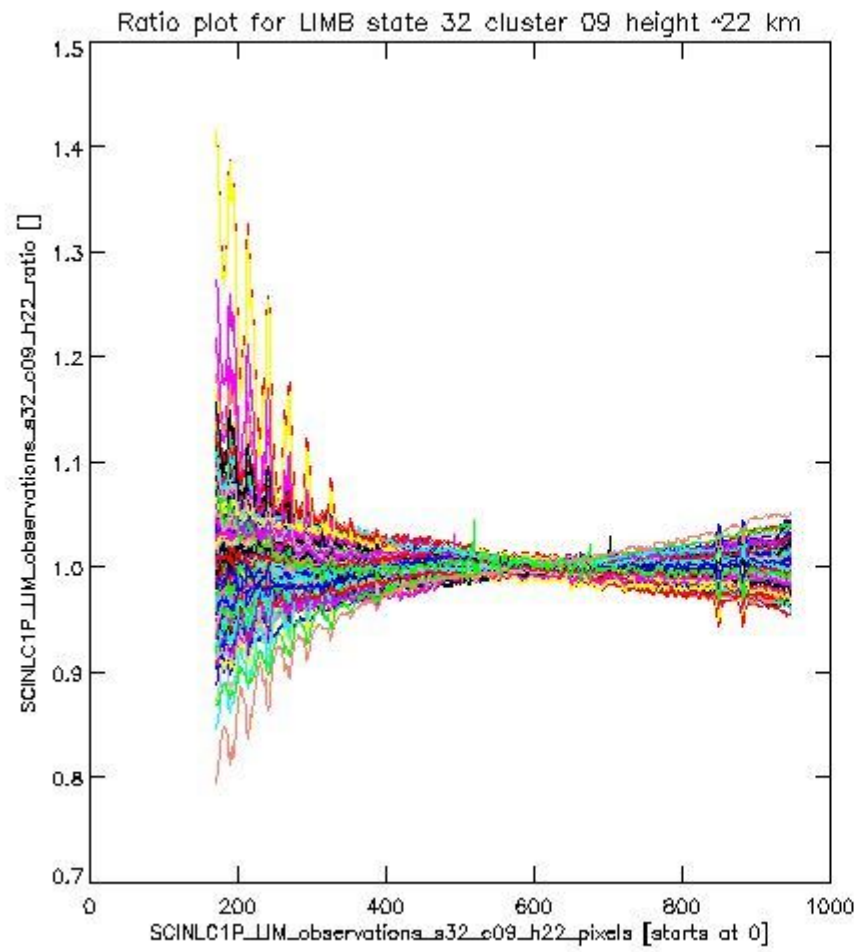
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110525_11.PNG

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	25MAY2011 00:42:23.644
Start time of last sample	25MAY2011 22:52:52.595
Reference period start time	25APR2011 00:44:50.752
Reference period stop time	24MAY2011 23:29:39.772
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	947



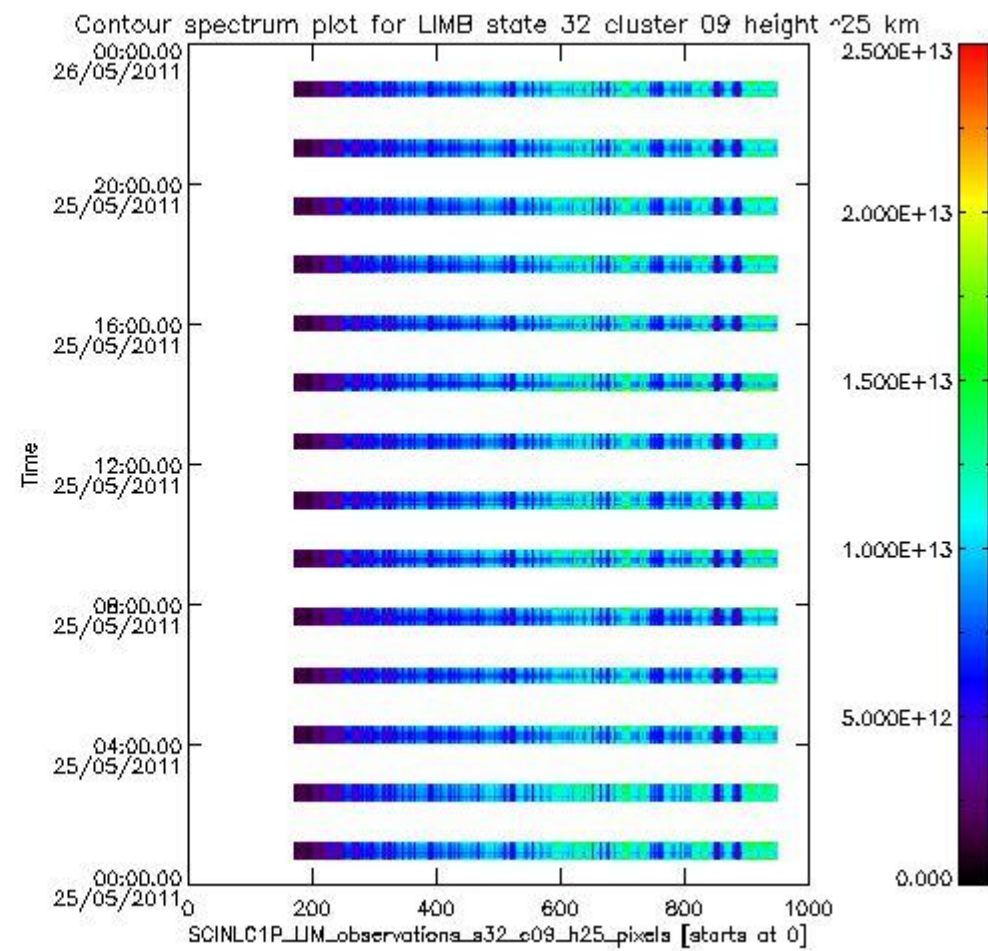
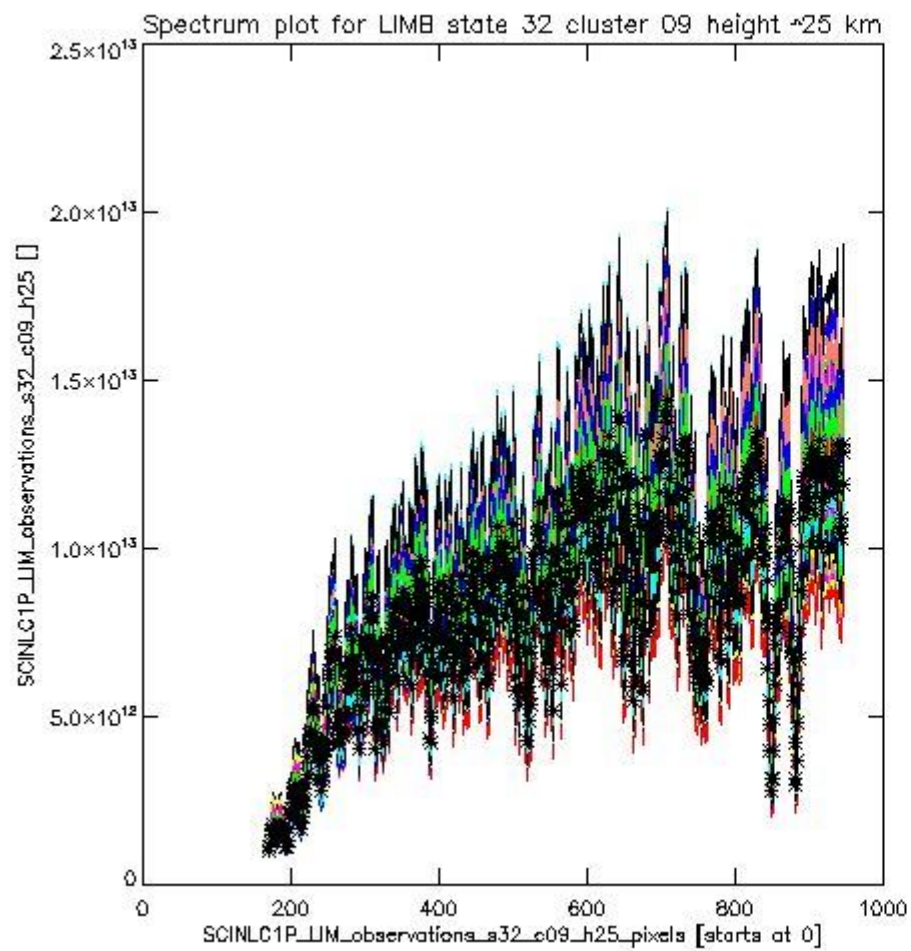
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110525_12.PNG



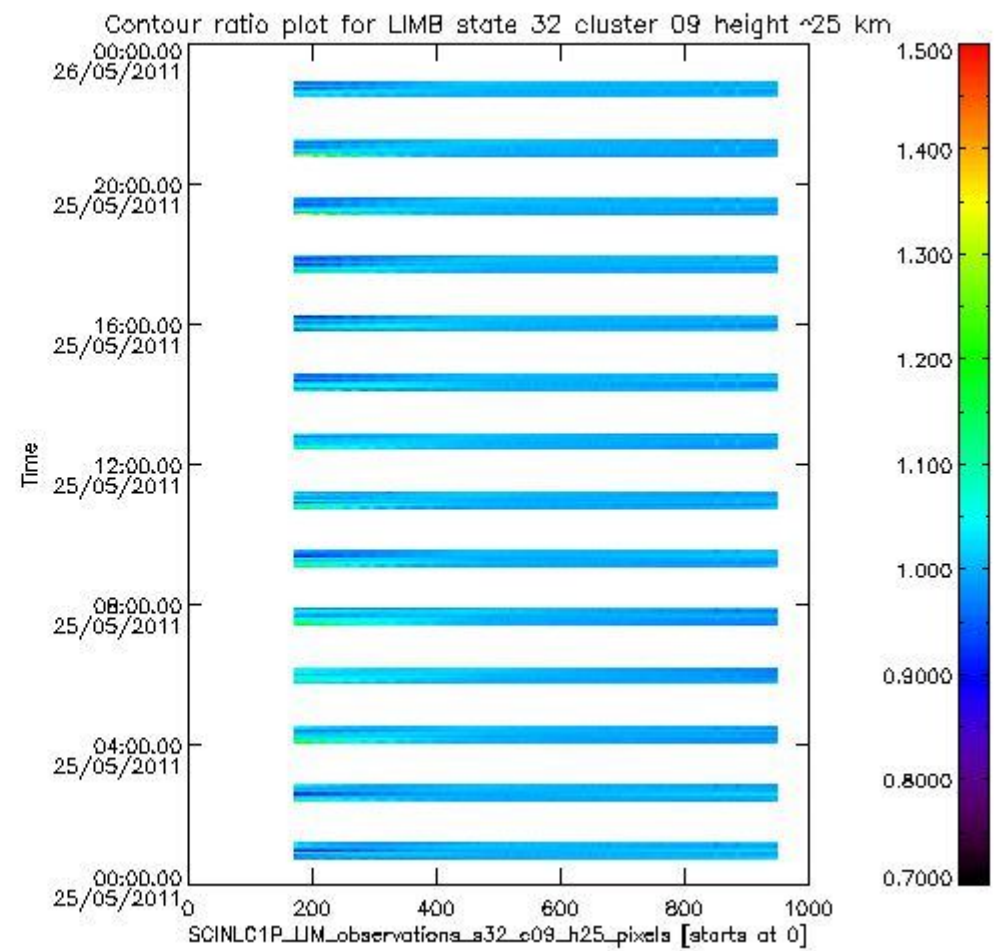
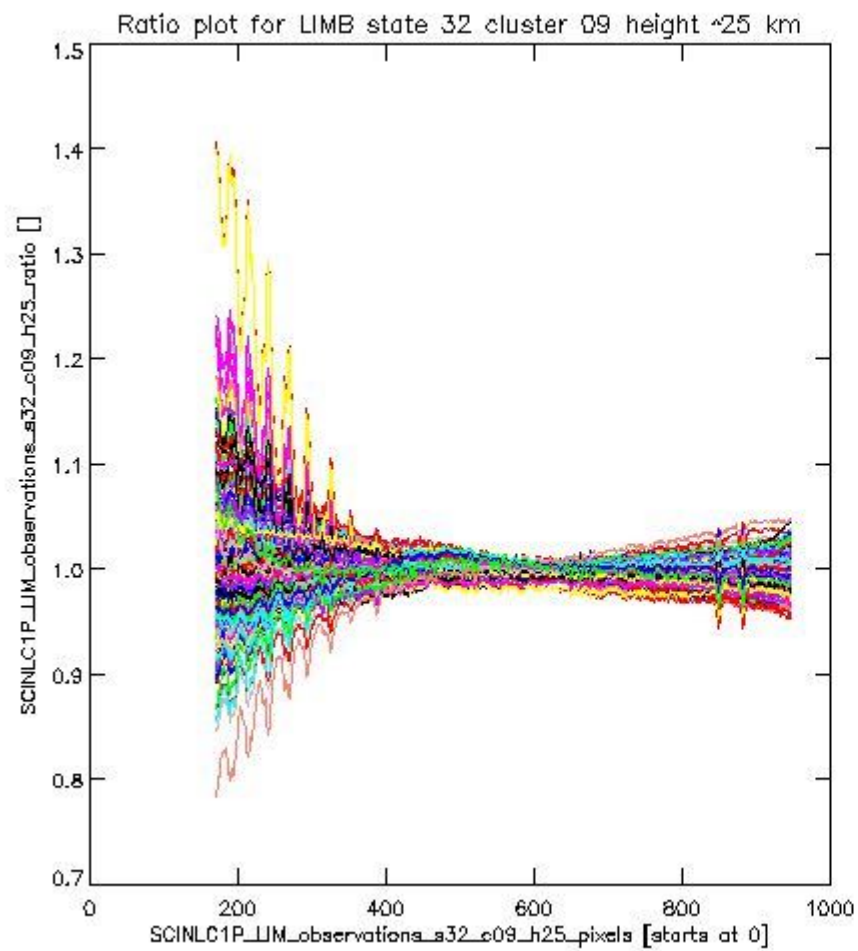
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110525_13.PNG

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	25MAY2011 00:42:23.644
Start time of last sample	25MAY2011 22:52:52.595
Reference period start time	25APR2011 00:44:50.752
Reference period stop time	24MAY2011 23:29:39.772
Channel number	2
First pixel number (starts at 0)	170
Last pixel number (starts at 0)	947



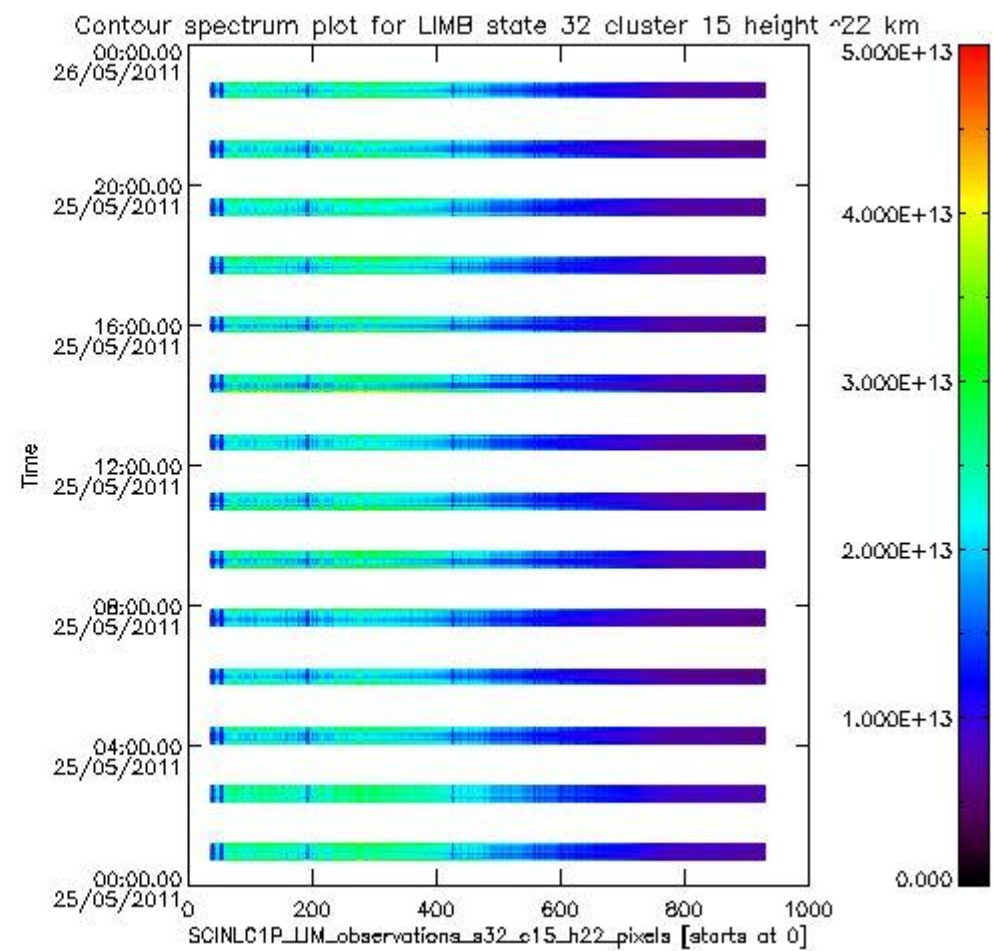
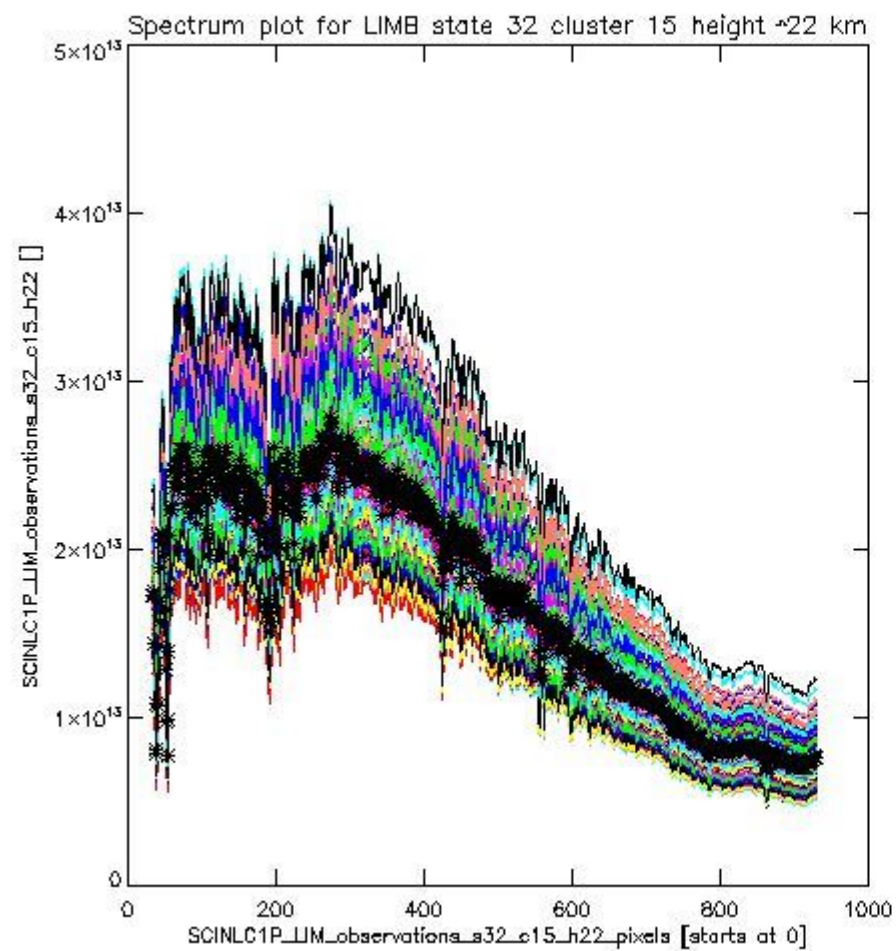
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110525_14.PNG



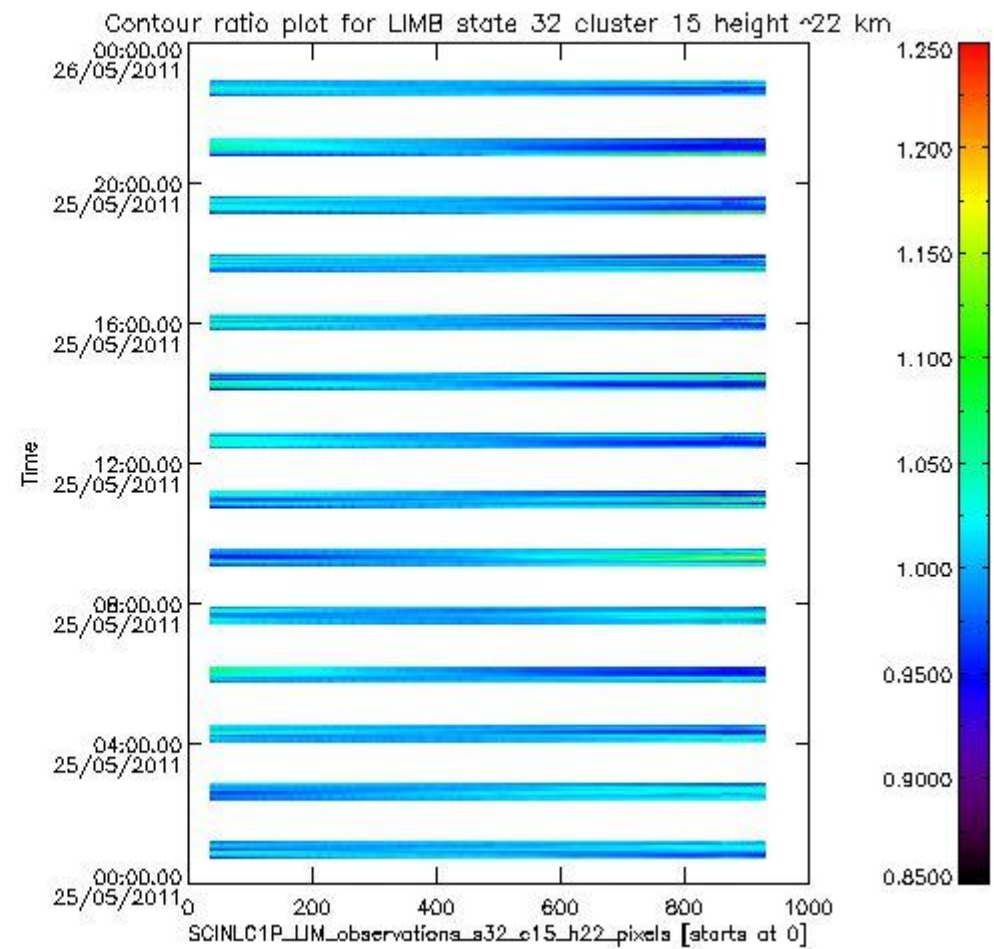
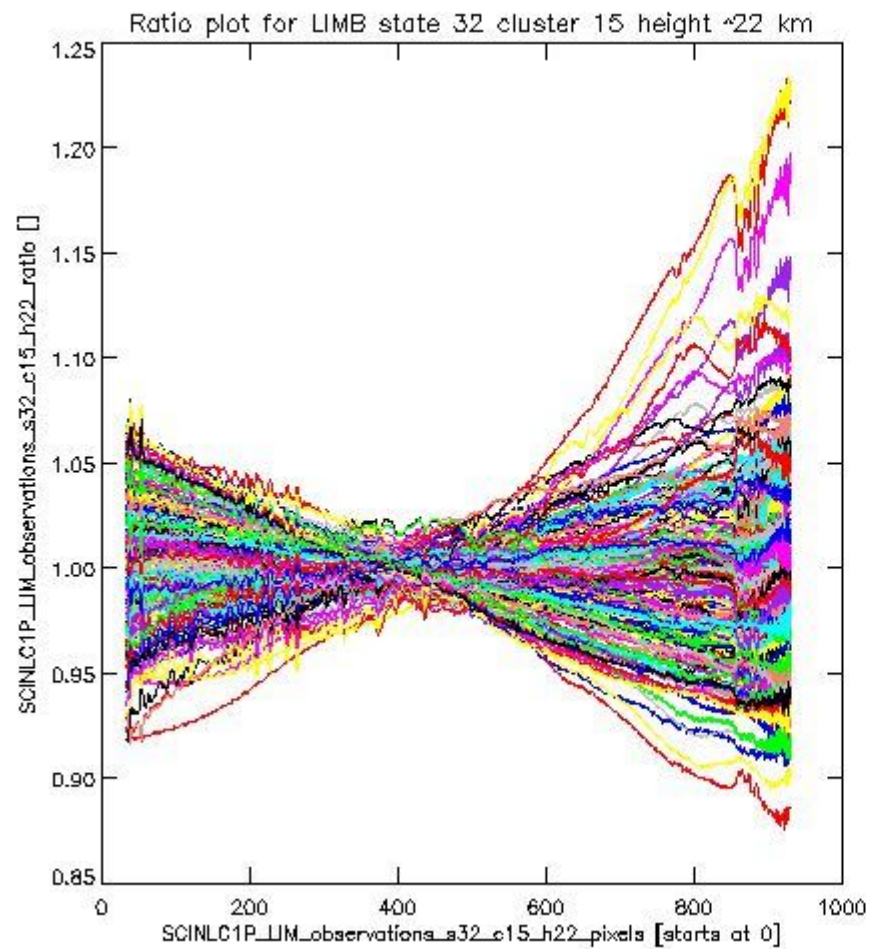
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110525_15.PNG

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	25MAY2011 00:42:23.644
Start time of last sample	25MAY2011 22:52:52.595
Reference period start time	25APR2011 00:44:50.752
Reference period stop time	24MAY2011 23:29:39.772
Channel number	3
First pixel number (starts at 0)	33
Last pixel number (starts at 0)	929



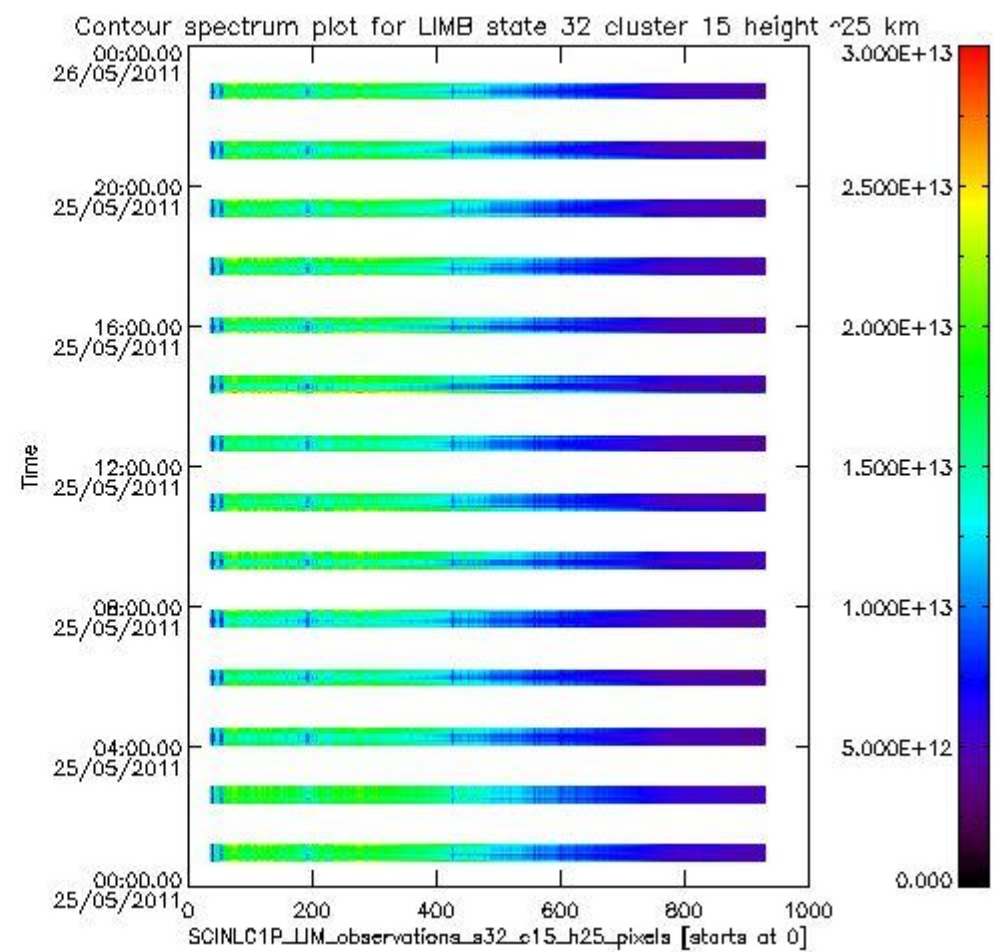
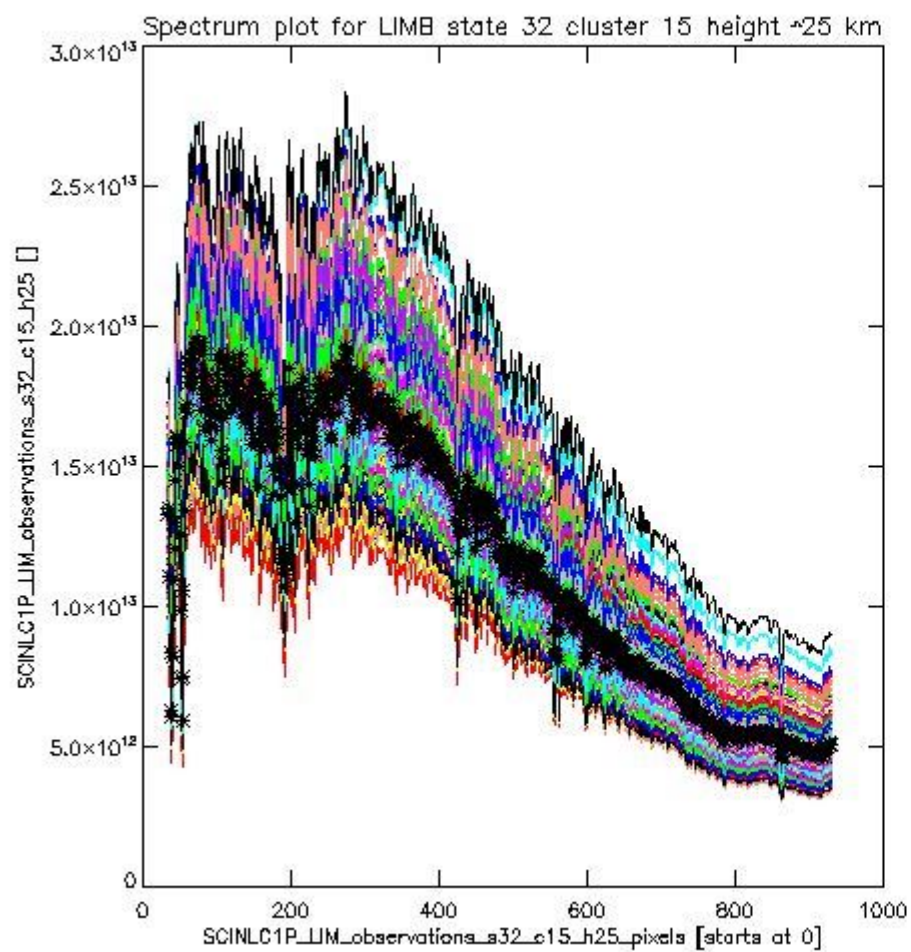
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110525_16.PNG



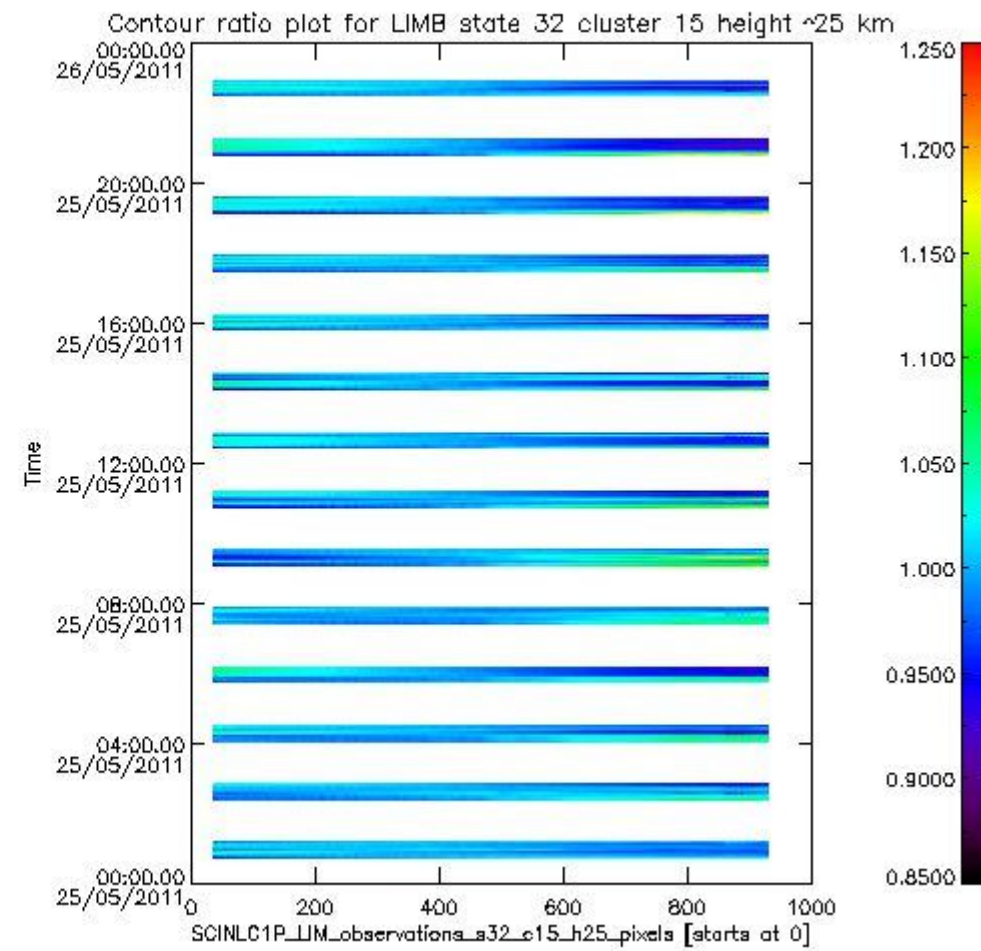
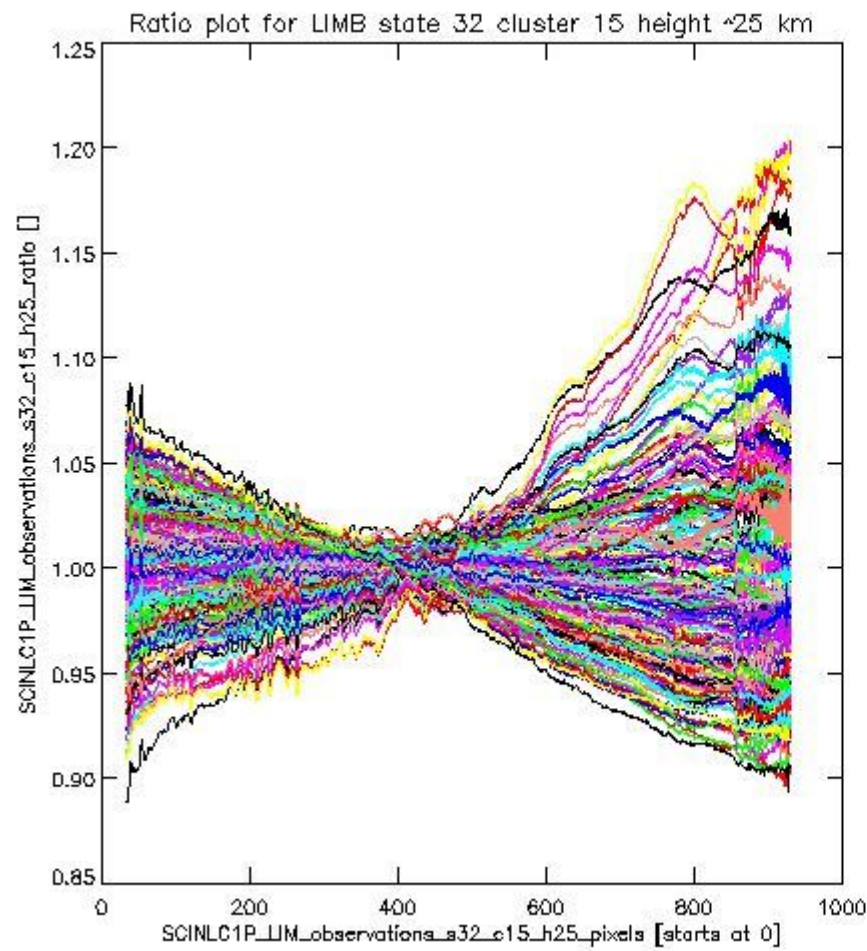
sciamachy_11b_source_packet_report_SCIA_7_04_U_20110525_17.PNG

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	25MAY2011 00:42:23.644
Start time of last sample	25MAY2011 22:52:52.595
Reference period start time	25APR2011 00:44:50.752
Reference period stop time	24MAY2011 23:29:39.772
Channel number	3
First pixel number (starts at 0)	33
Last pixel number (starts at 0)	929



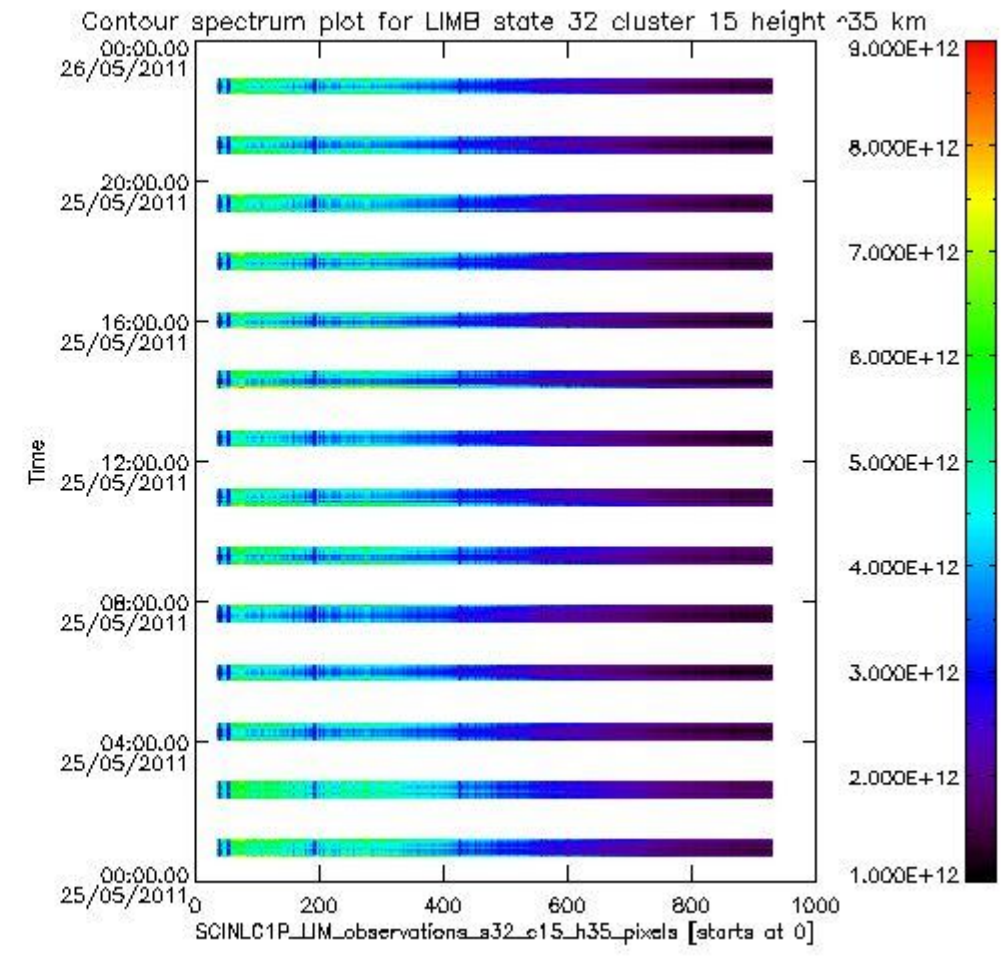
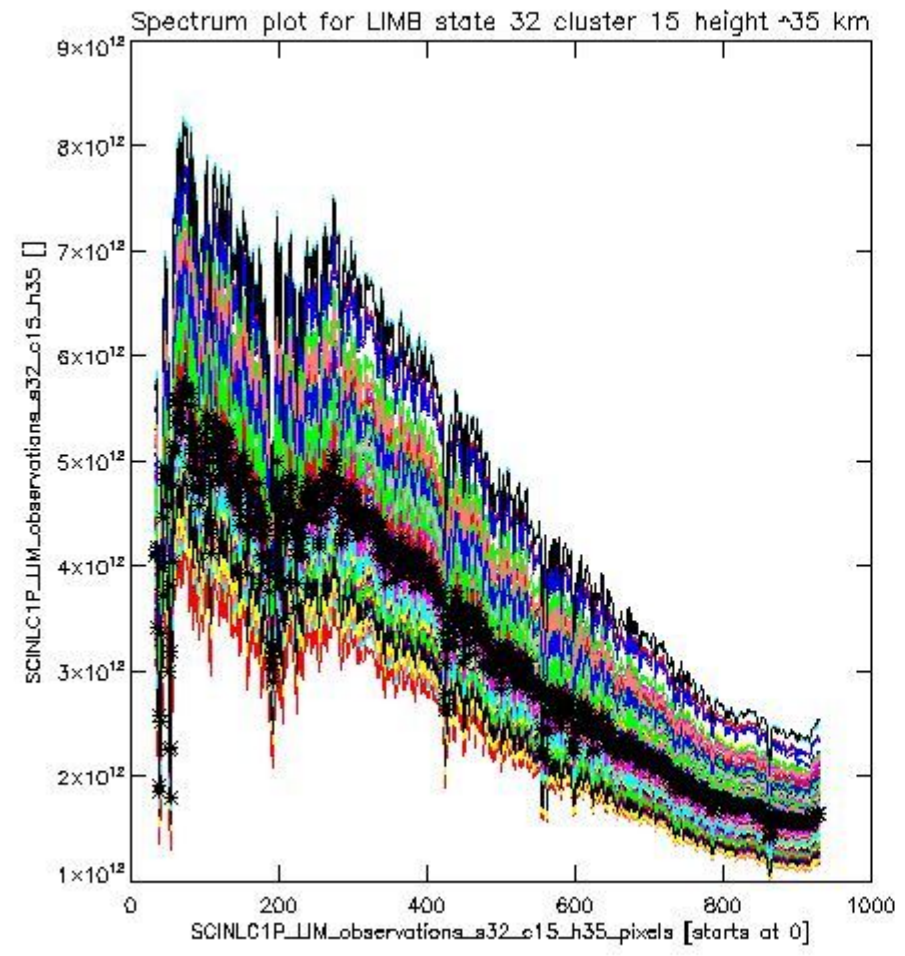
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110525_18.PNG



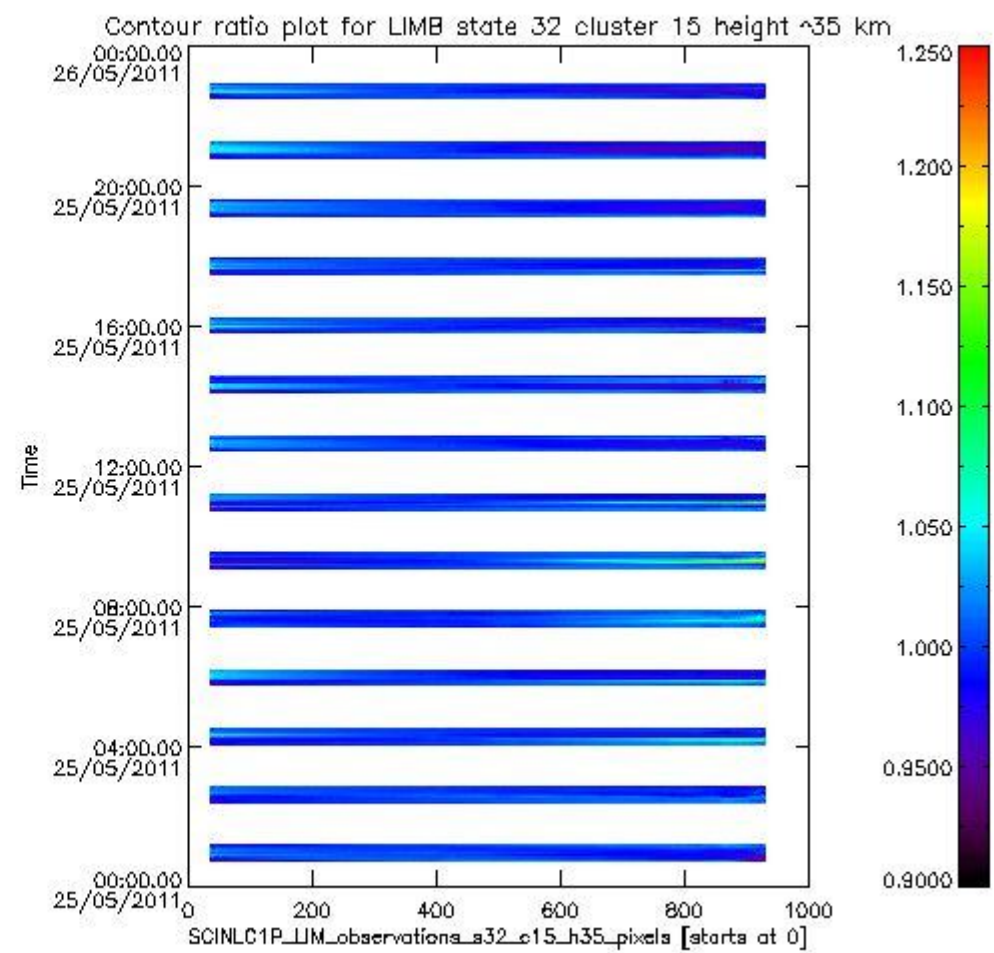
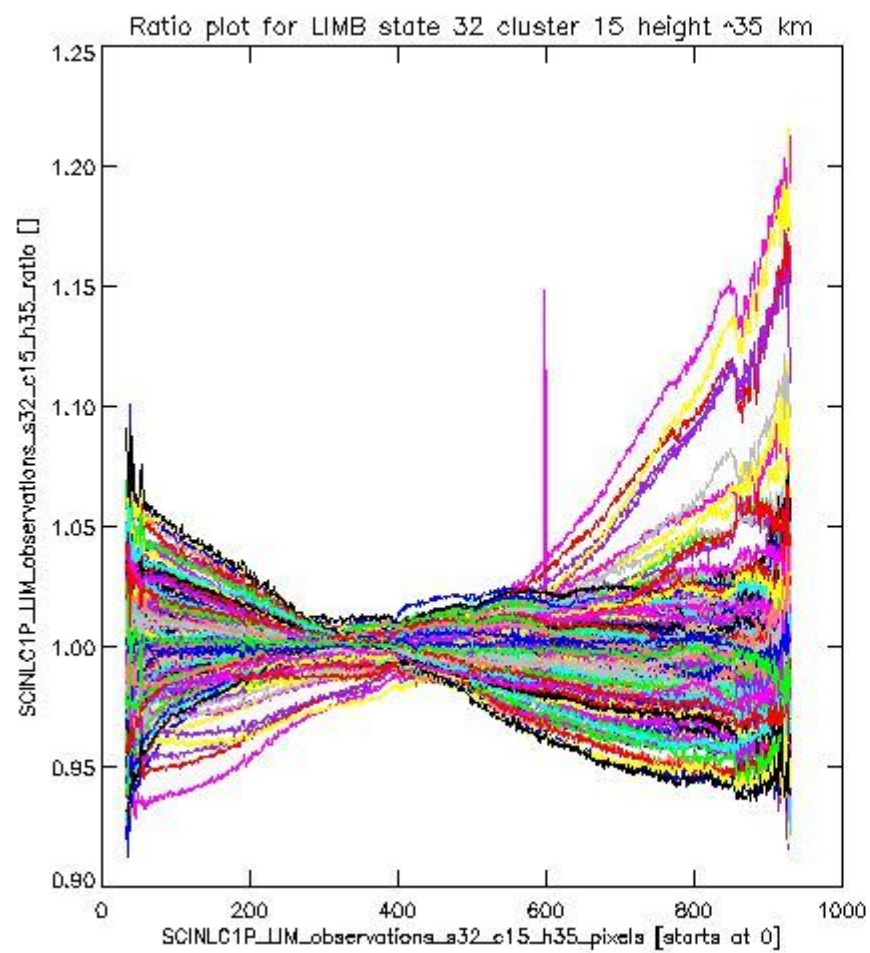
sciamachy_11b_source_packet_report_SCIA_7_04_U_20110525_19.PNG

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	25MAY2011 00:42:23.644
Start time of last sample	25MAY2011 22:52:52.595
Reference period start time	25APR2011 00:44:50.752
Reference period stop time	24MAY2011 23:29:39.772
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_20110525_20.PNG



sciamachy_11b_source_packet_report_SCIA_7_04_U_20110525_21.PNG

