

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 | 23FEB2011 06:55:35 |
| Data source version | SCIA/7.04-U |
| Processing scope for products | 12FEB2011 00:00:00 to 13FEB2011 00:00:00 |
| Start time of first product within scope | 11FEB2011 23:31:59 |
| Stop time of last product within scope | 12FEB2011 00:42:14 |
| Total number of level 1 products | 1 |
| 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 | 12FEB2011 00:04:02.340 | 12FEB2011 15:15:23.706 |
| 1 | NADIR | 07 | 09 | N/A | 12FEB2011 00:04:02.340 | 12FEB2011 15:15:23.706 |
| 2 | NADIR | 07 | 15 | N/A | 12FEB2011 00:04:02.340 | 12FEB2011 15:15:23.706 |
| 3 | NADIR | 07 | 24 | N/A | 12FEB2011 00:04:02.340 | 12FEB2011 15:15:23.706 |
| 4 | NADIR | 07 | 55 | N/A | 12FEB2011 00:04:02.340 | 12FEB2011 15:15:23.706 |
| 5 | LIMB | 32 | 09 | ~19 km | 12FEB2011 00:01:05.414 | 12FEB2011 15:20:37.749 |
| 6 | LIMB | 32 | 09 | ~22 km | 12FEB2011 00:01:05.414 | 12FEB2011 15:20:37.749 |
| 7 | LIMB | 32 | 09 | ~25 km | 12FEB2011 00:01:05.414 | 12FEB2011 15:20:37.749 |
| 8 | LIMB | 32 | 15 | ~22 km | 12FEB2011 00:01:05.414 | 12FEB2011 15:20:37.749 |
| 9 | LIMB | 32 | 15 | ~25 km | 12FEB2011 00:01:05.414 | 12FEB2011 15:20:37.749 |
| 10 | LIMB | 32 | 15 | ~35 km | 12FEB2011 00:01:05.414 | 12FEB2011 15:20:37.749 |

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 | #cpl_drk | #incpl_drk | Decont |
|---|--|--------------------|--------------------|---------|--------|-------|------|------|--------|----------|------------|--------|
| 0 | SCI_NLC_1CUDPA20110211_231728_000060223099_00246_46812_4541.N1 | 11FEB2011 23:31:59 | 12FEB2011 00:42:14 | 0 | 35 | 31 | 0 | 0 | 1 | 0 | 0 | |

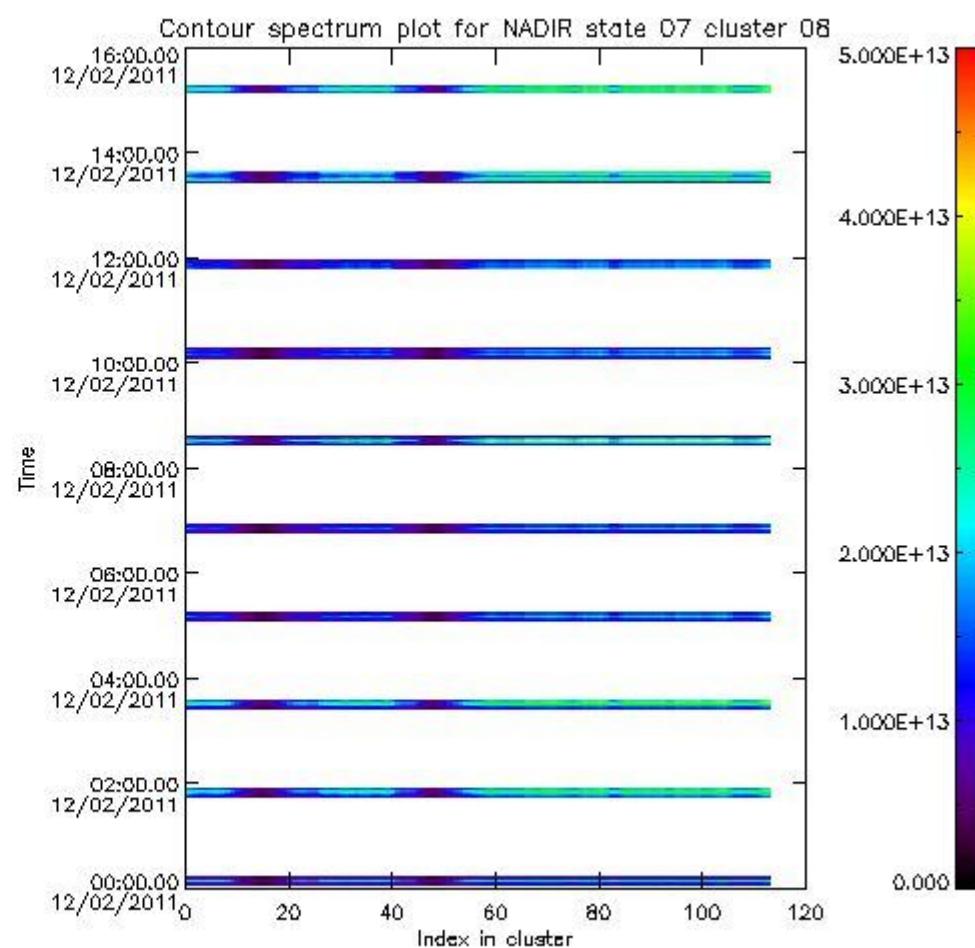
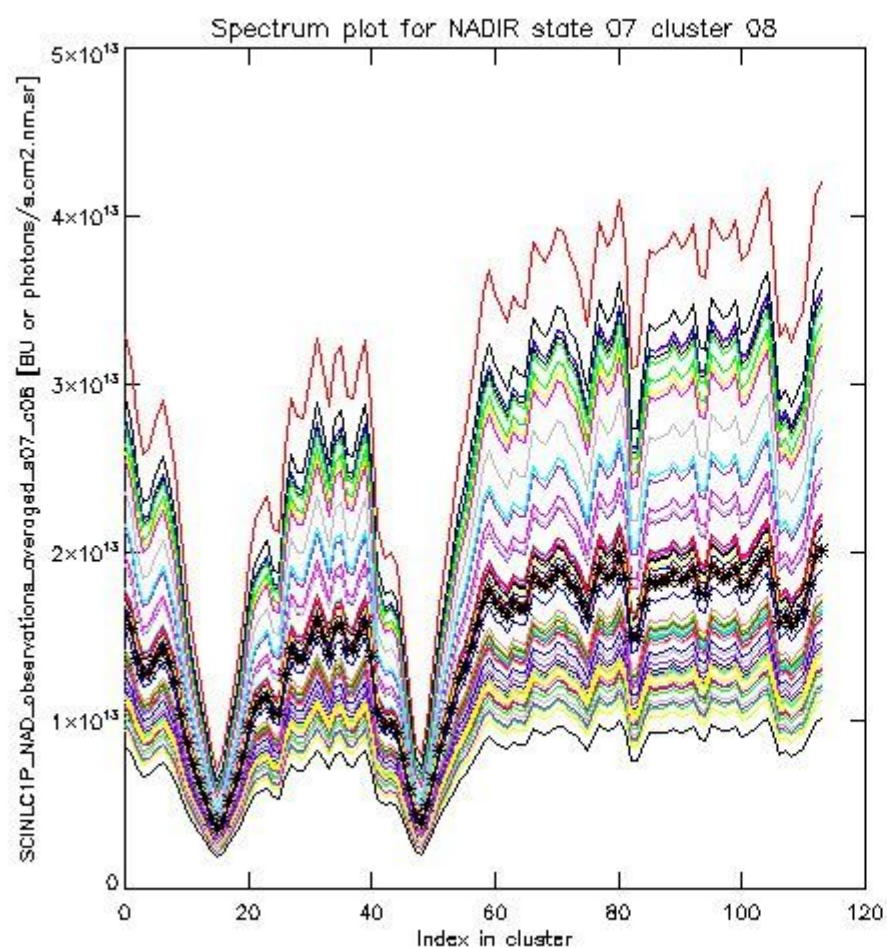
1.2 Source packet monitoring

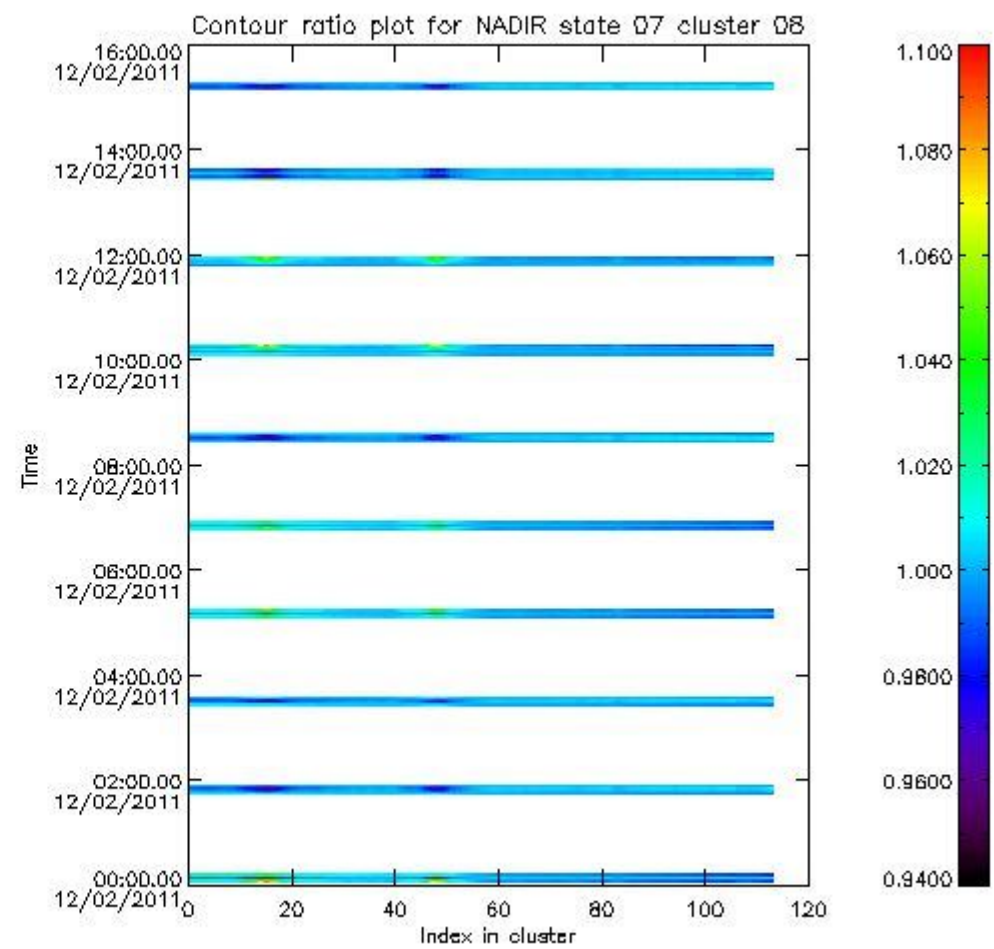
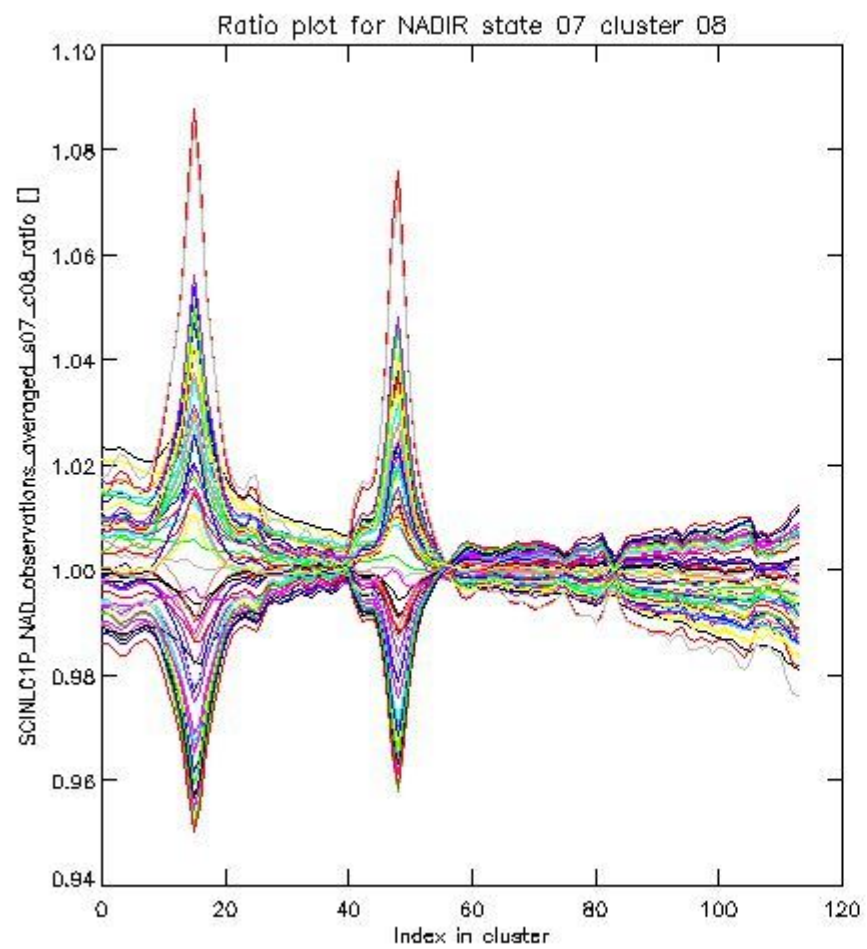
This section shows figures for each of the monitored source packet types listed in the Source Packet Summary section. For each mode-state-cluster(-height) combination the following plots are shown:

- 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 : 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 | 12FEB2011 00:04:02.340 |
| Start time of last sample | 12FEB2011 15:15:23.706 |
| Reference period start time | 13JAN2011 00:07:13.400 |
| Reference period stop time | 11FEB2011 22:33:08.366 |
| Channel number | N/A |
| First pixel number (starts at 0) | N/A |
| Last pixel number (starts at 0) | N/A |

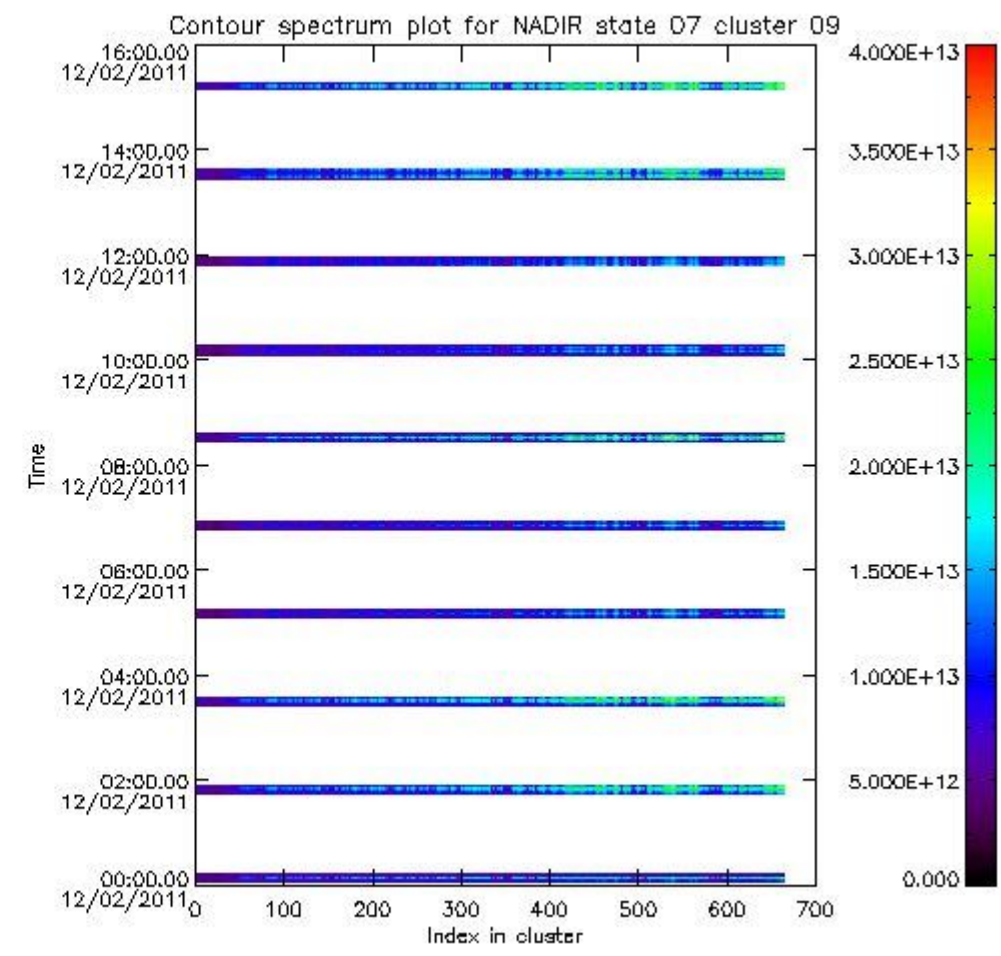
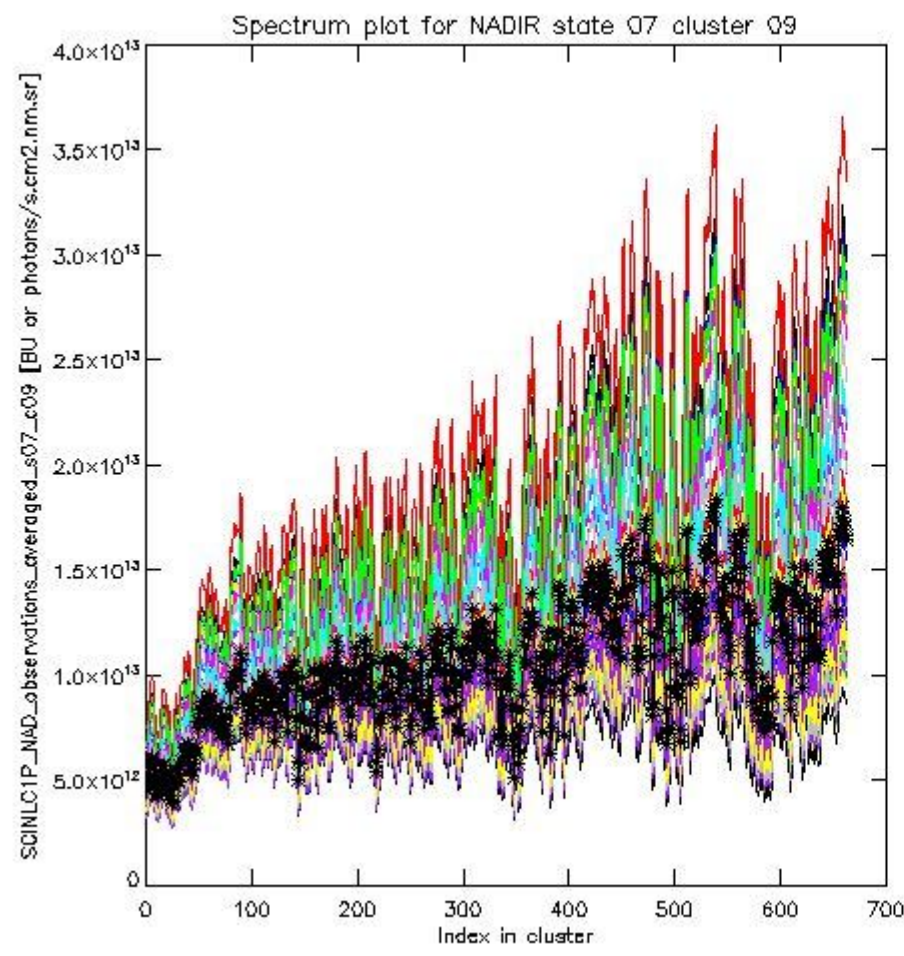




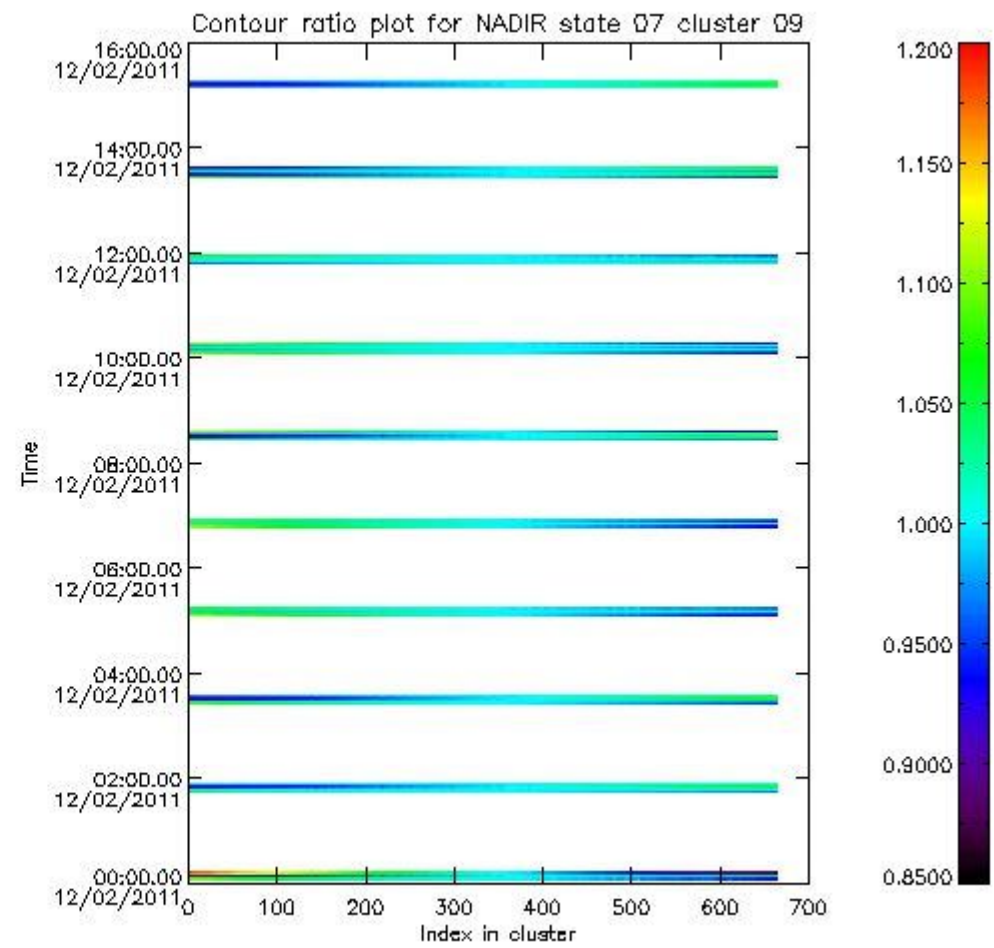
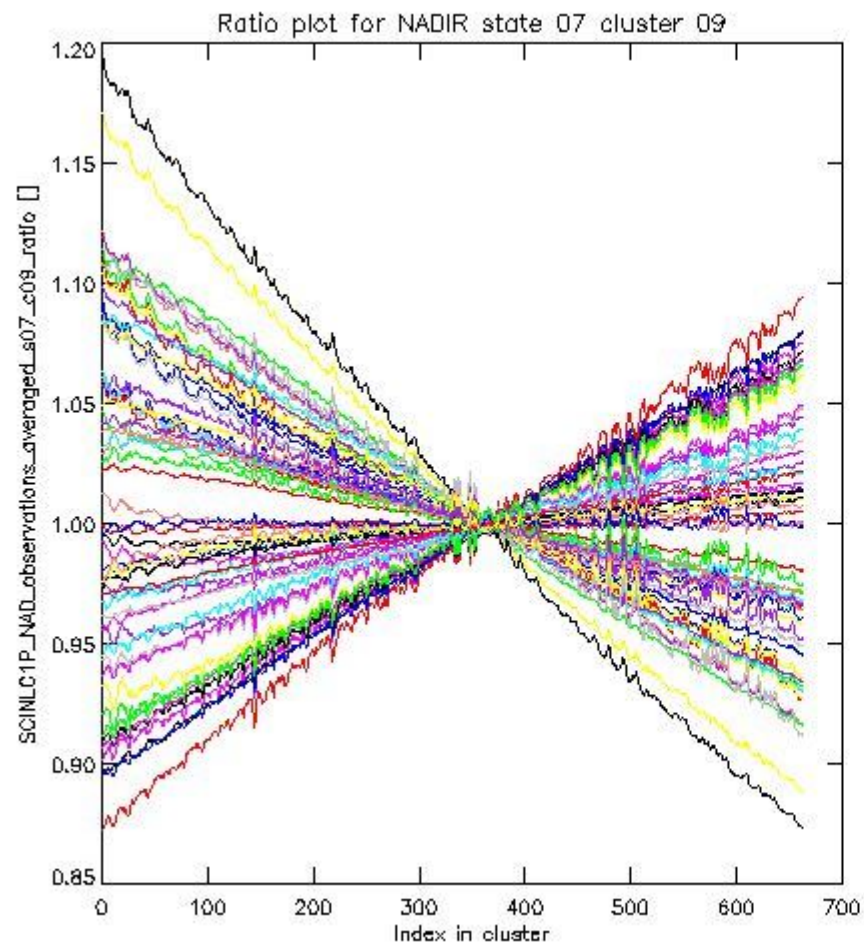
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110212_1.PNG

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 | 12FEB2011 00:04:02.340 |
| Start time of last sample | 12FEB2011 15:15:23.706 |
| Reference period start time | 13JAN2011 00:07:13.400 |
| Reference period stop time | 11FEB2011 22:33:08.366 |
| Channel number | N/A |
| First pixel number (starts at 0) | N/A |
| Last pixel number (starts at 0) | N/A |



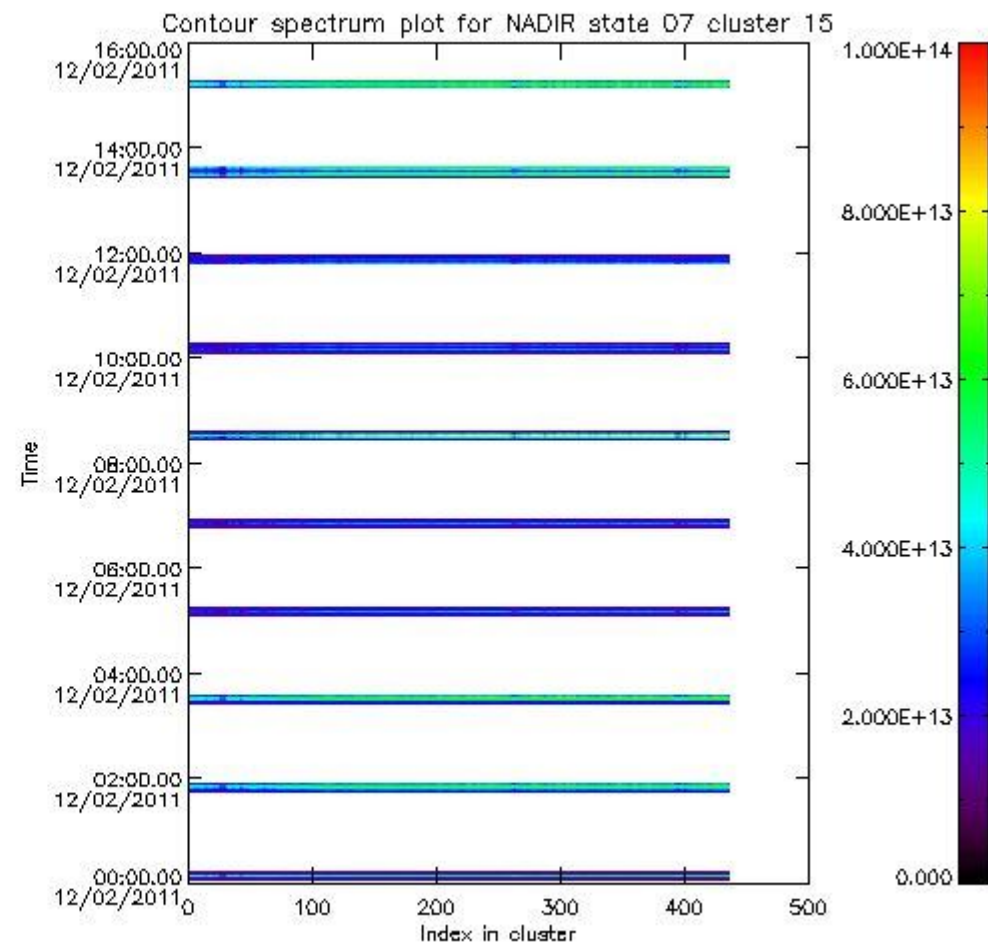
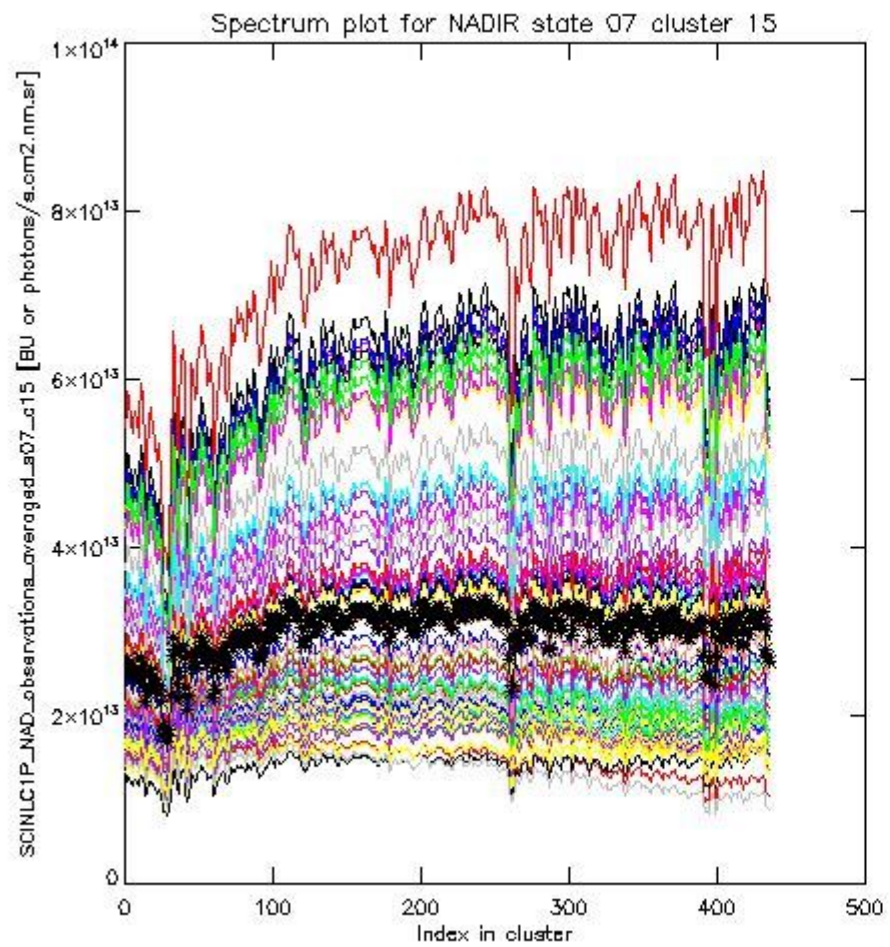
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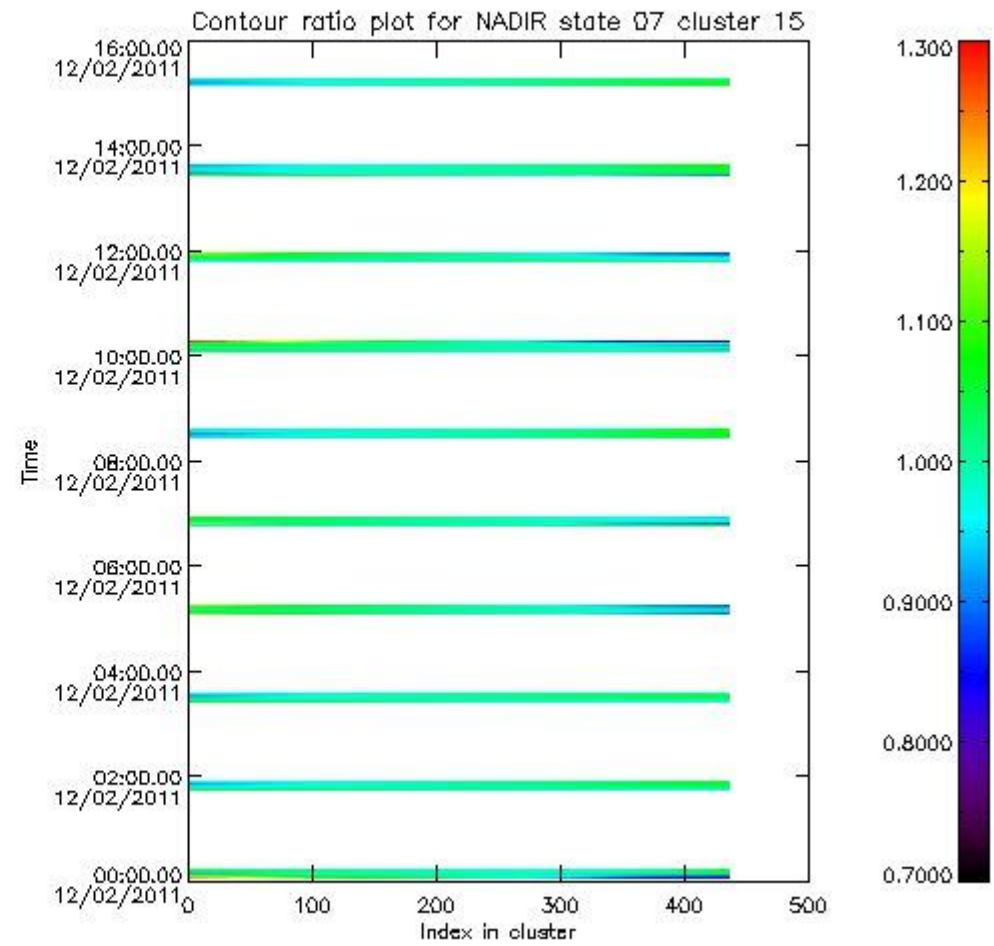
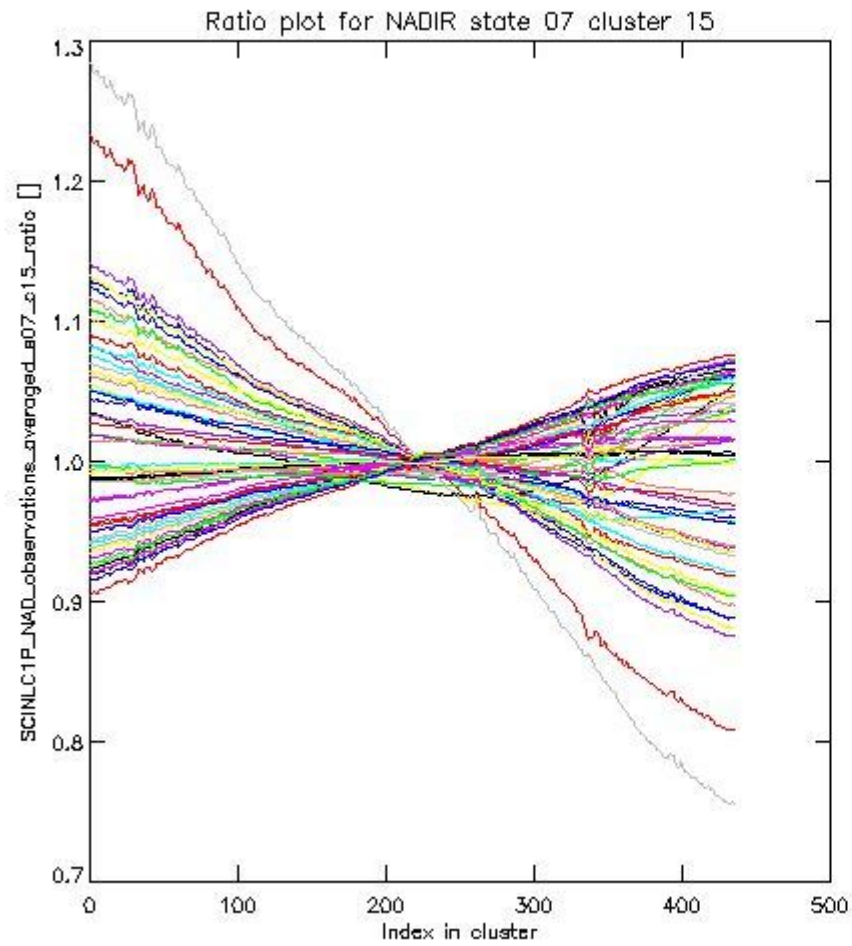
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110212_3.PNG

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 | 12FEB2011 00:04:02.340 |
| Start time of last sample | 12FEB2011 15:15:23.706 |
| Reference period start time | 13JAN2011 00:07:13.400 |
| Reference period stop time | 11FEB2011 22:33:08.366 |
| Channel number | N/A |
| First pixel number (starts at 0) | N/A |
| Last pixel number (starts at 0) | N/A |



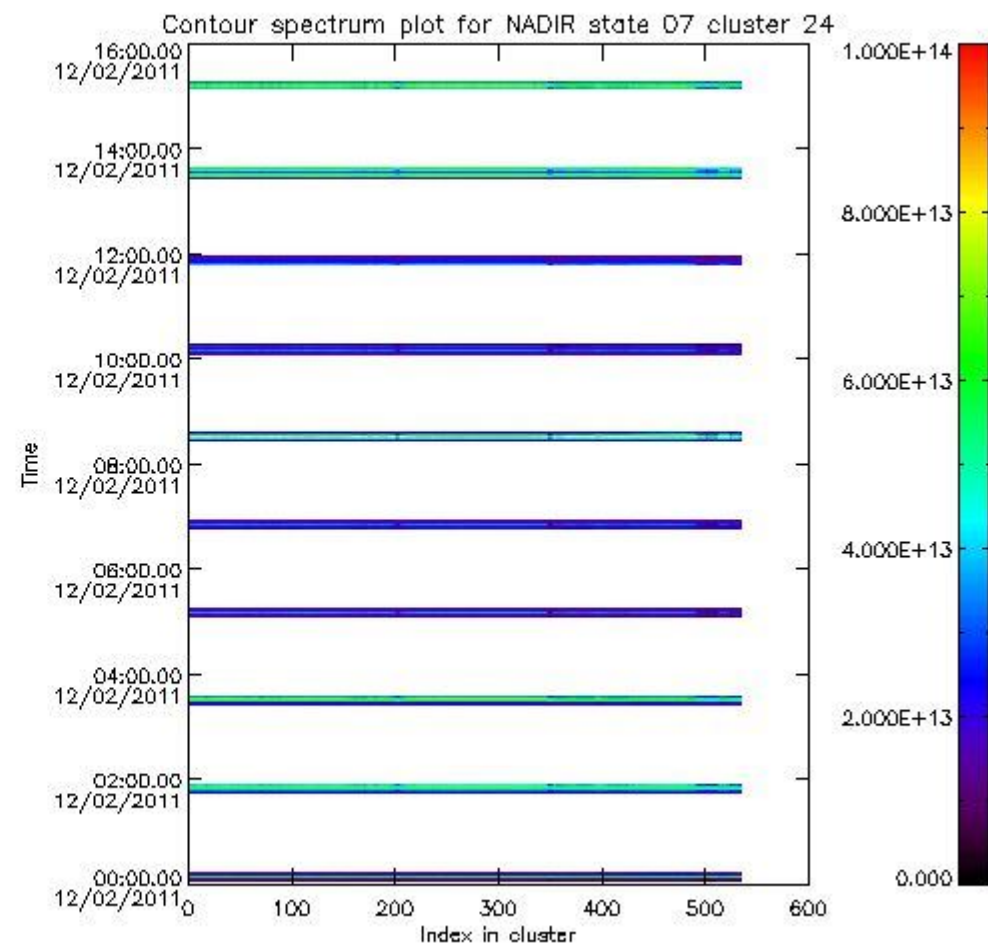
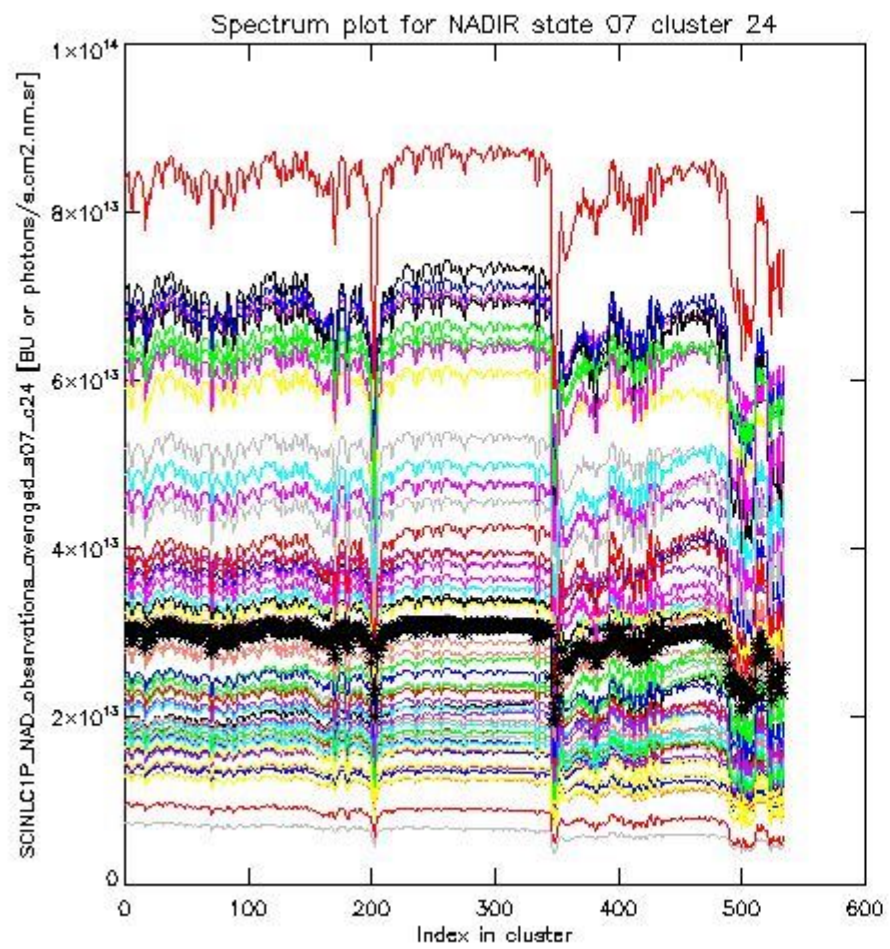
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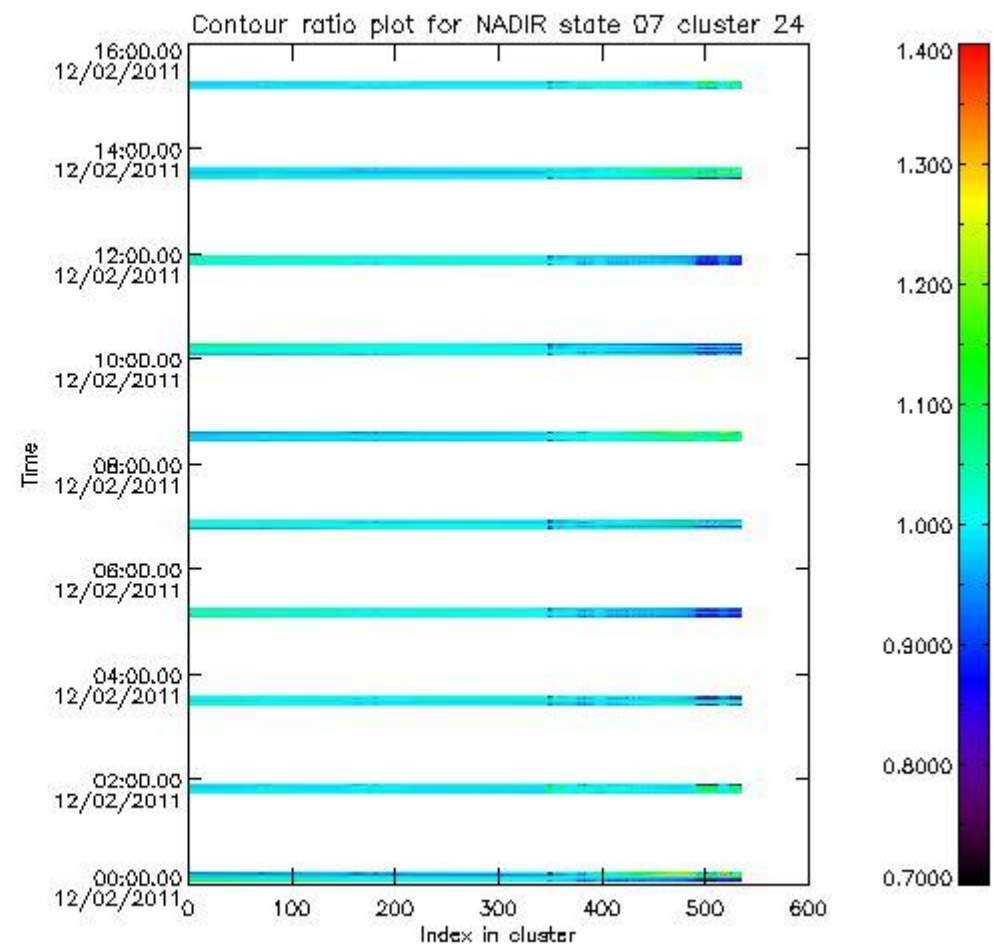
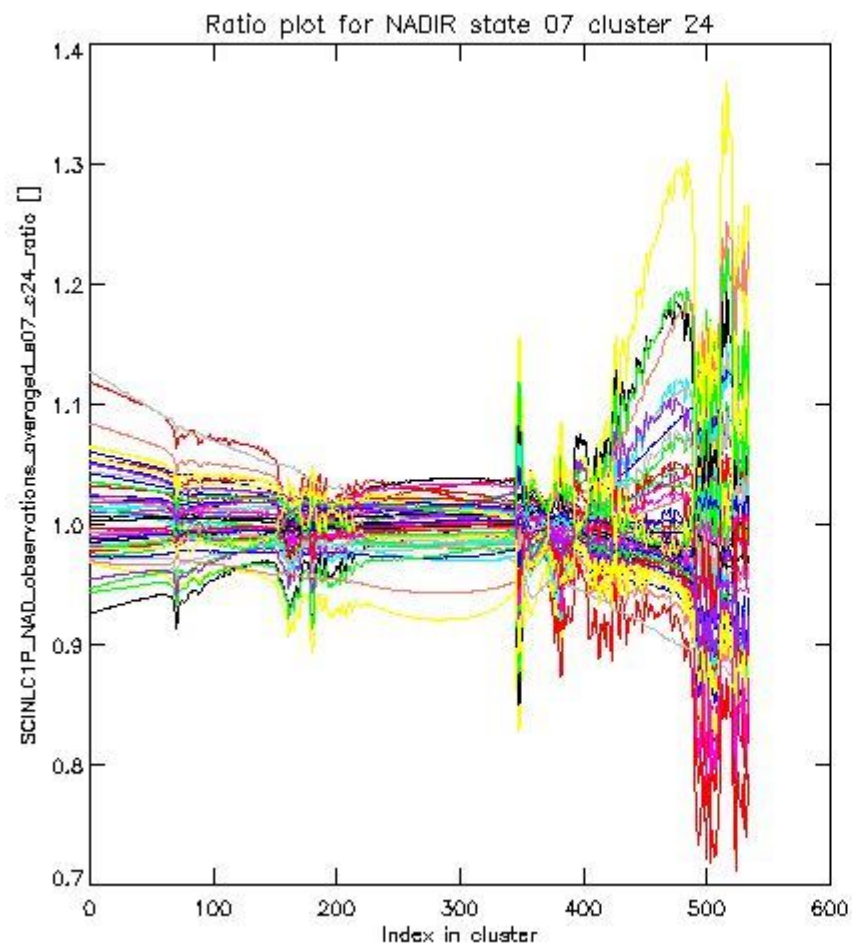
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110212_5.PNG

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 | 12FEB2011 00:04:02.340 |
| Start time of last sample | 12FEB2011 15:15:23.706 |
| Reference period start time | 13JAN2011 00:07:13.400 |
| Reference period stop time | 11FEB2011 22:33:08.366 |
| Channel number | N/A |
| First pixel number (starts at 0) | N/A |
| Last pixel number (starts at 0) | N/A |



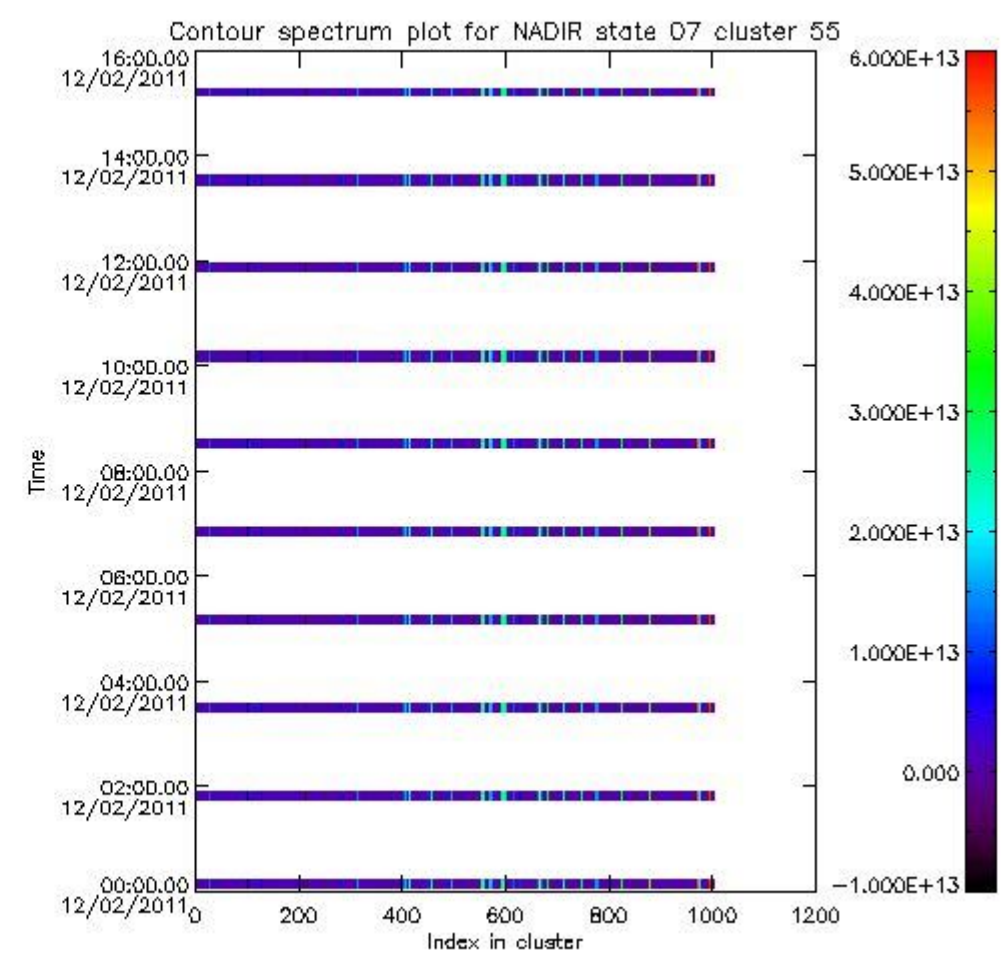
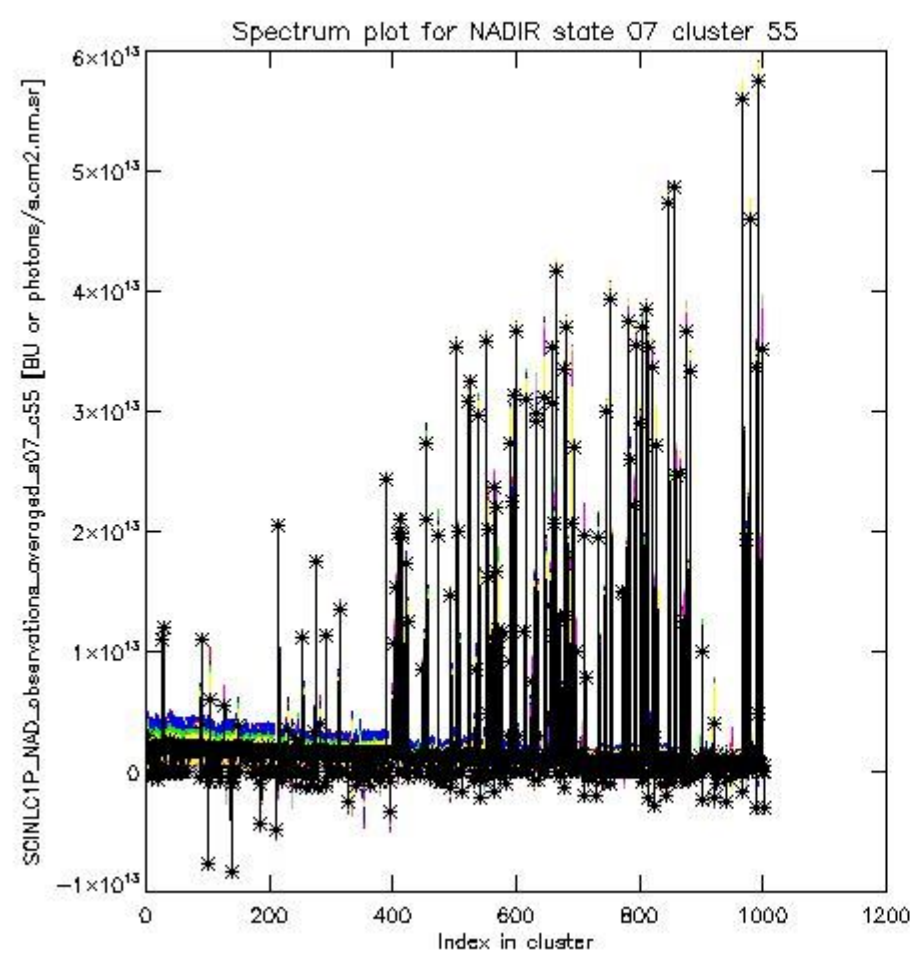
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110212_6.PNG



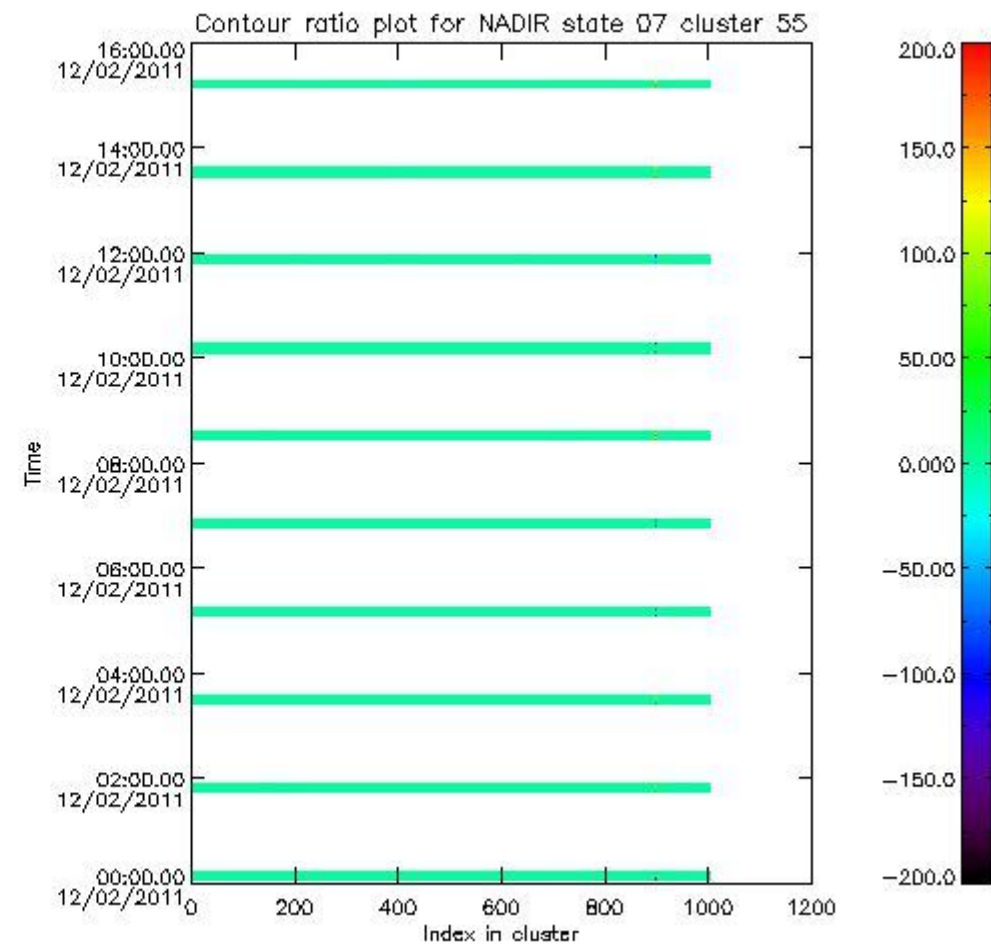
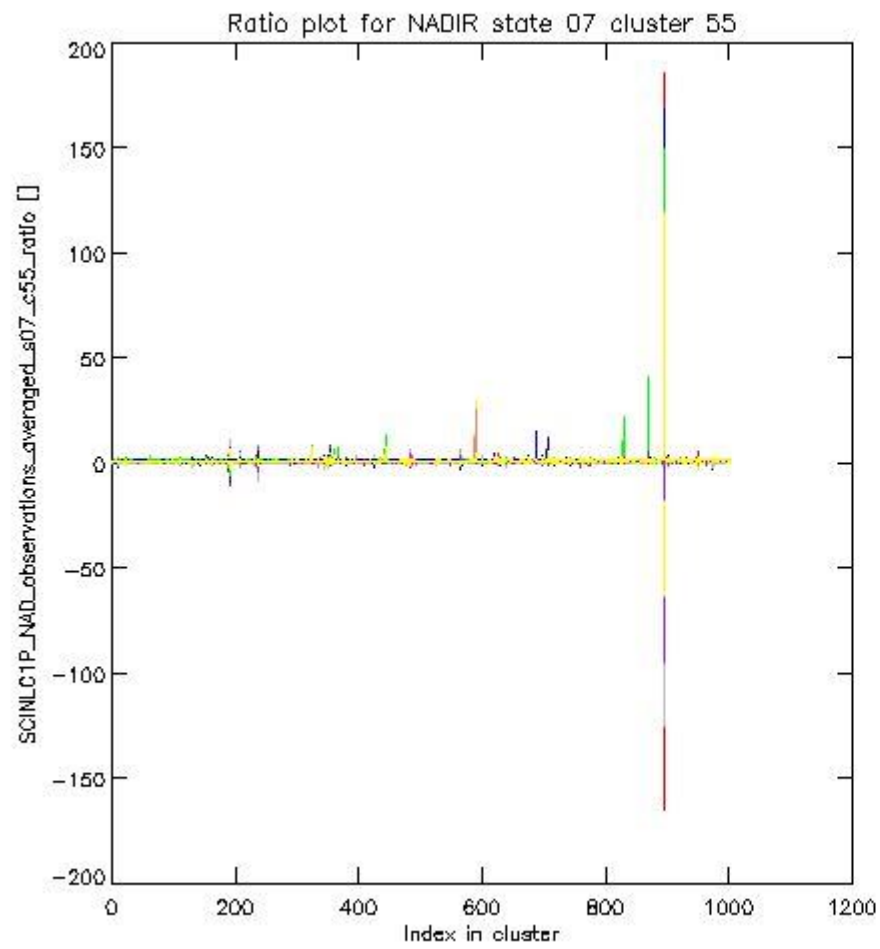
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110212_7.PNG

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 | 12FEB2011 00:04:02.340 |
| Start time of last sample | 12FEB2011 15:15:23.706 |
| Reference period start time | 13JAN2011 00:07:13.400 |
| Reference period stop time | 11FEB2011 22:33:08.366 |
| Channel number | N/A |
| First pixel number (starts at 0) | N/A |
| Last pixel number (starts at 0) | N/A |



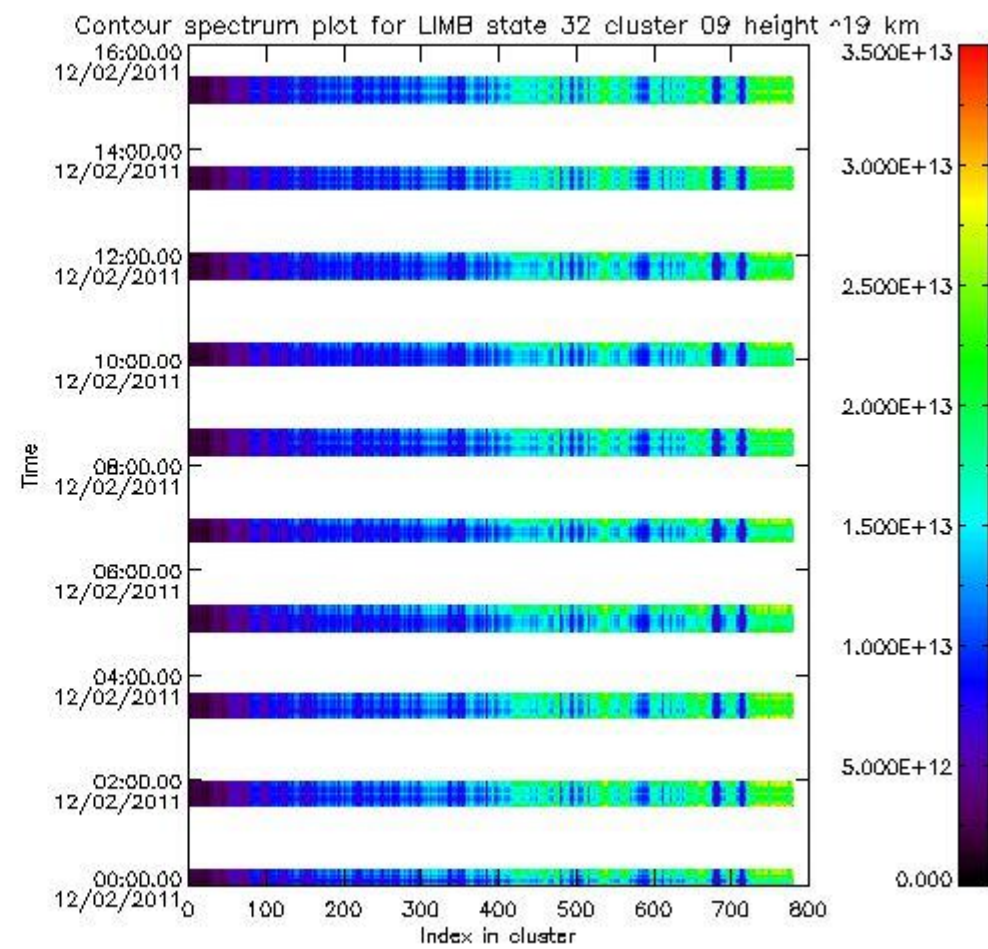
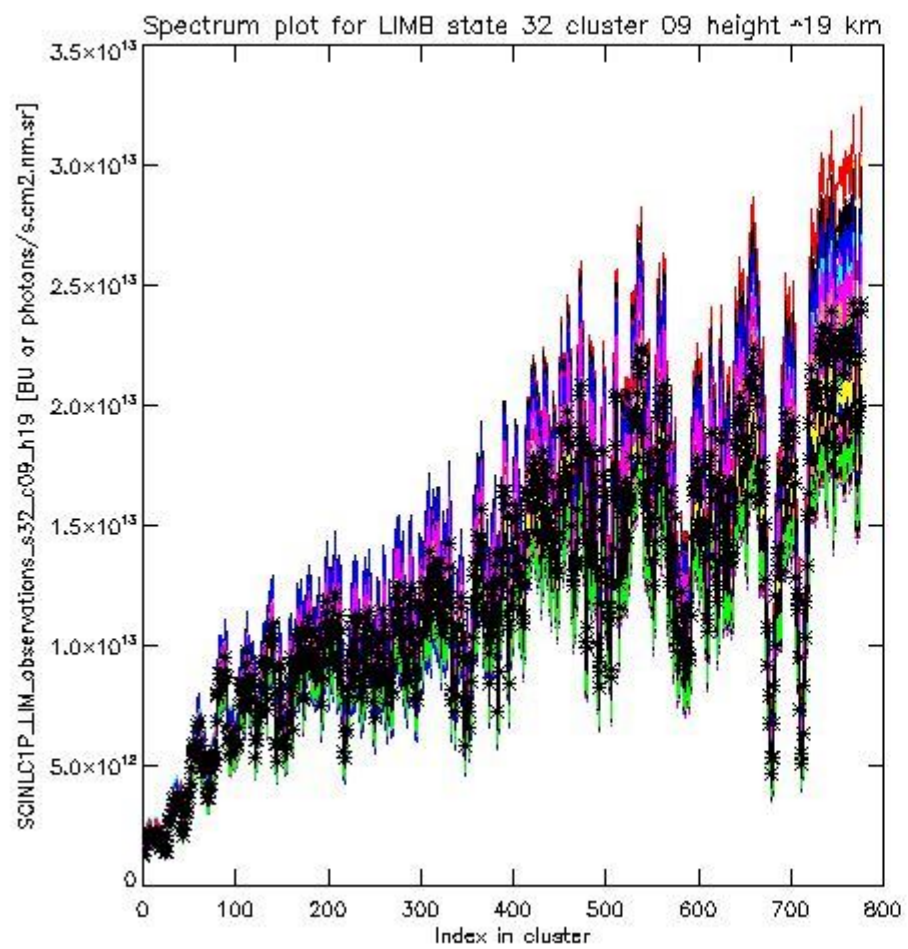
sciamachy_i1b_source_packet_report_SCIA_7_04_U_20110212_8.PNG



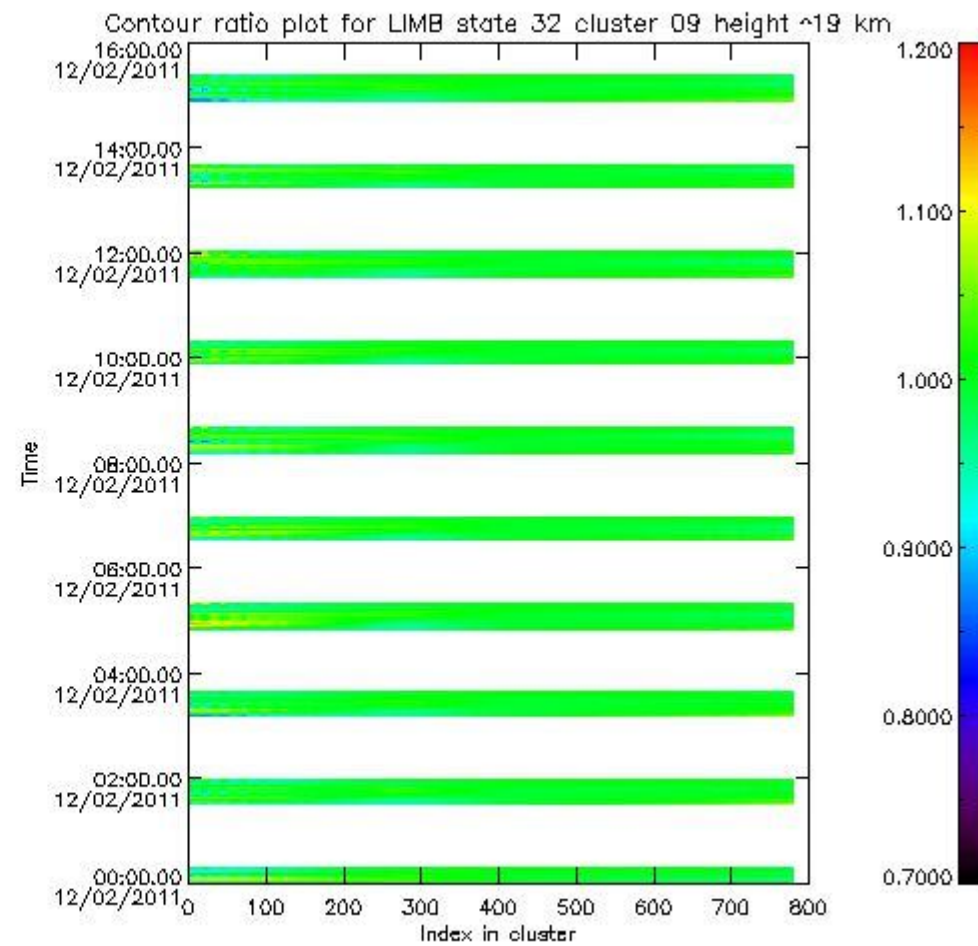
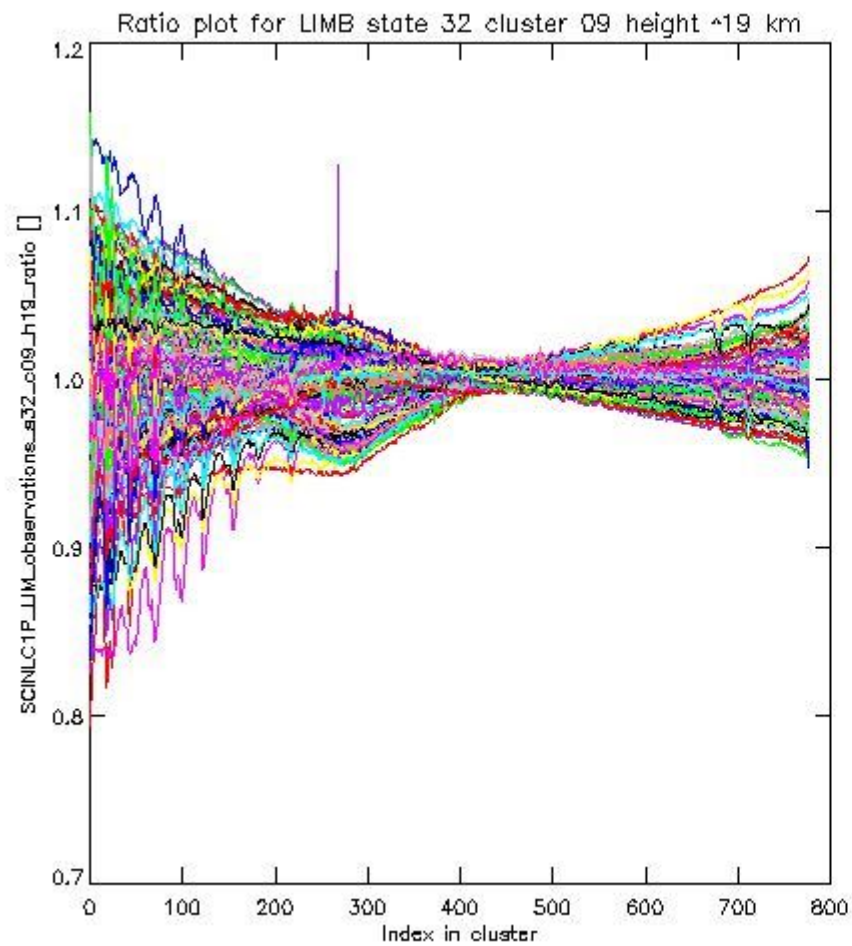
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110212_9.PNG

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 | 12FEB2011 00:01:05.414 |
| Start time of last sample | 12FEB2011 15:20:37.749 |
| Reference period start time | 13JAN2011 00:00:10.986 |
| Reference period stop time | 11FEB2011 23:59:02.672 |
| Channel number | N/A |
| First pixel number (starts at 0) | N/A |
| Last pixel number (starts at 0) | N/A |



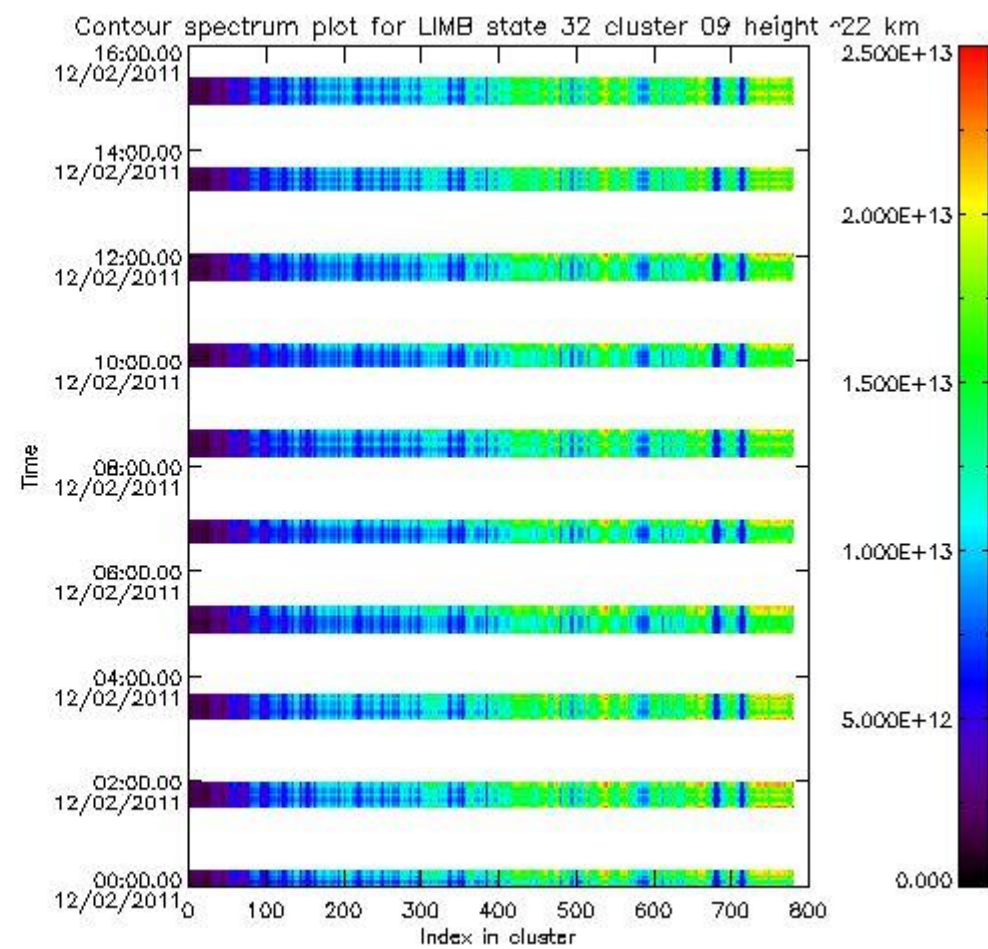
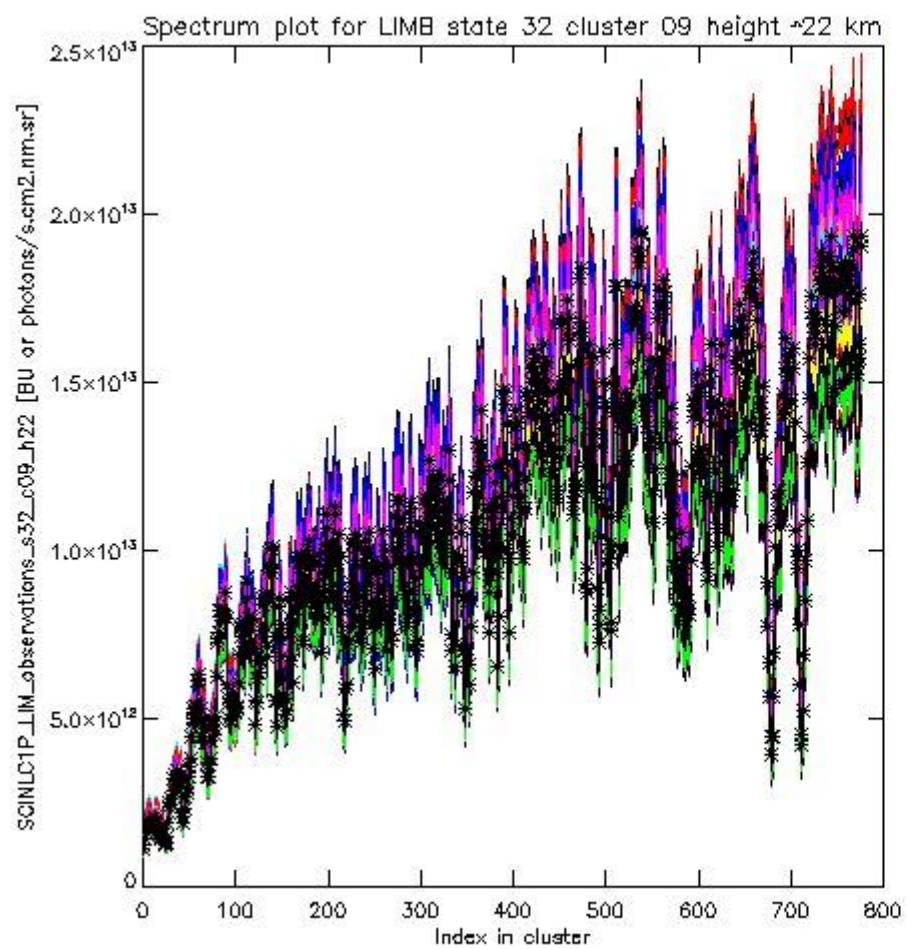
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110212_10.PNG



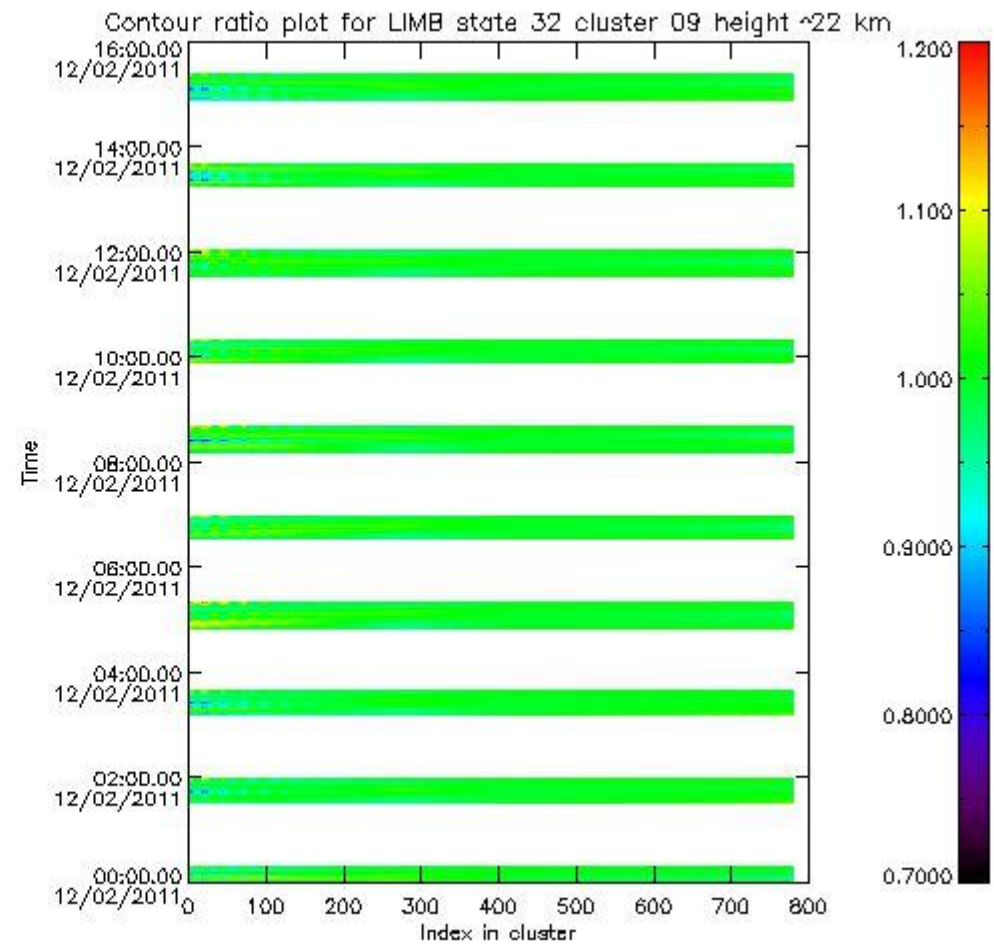
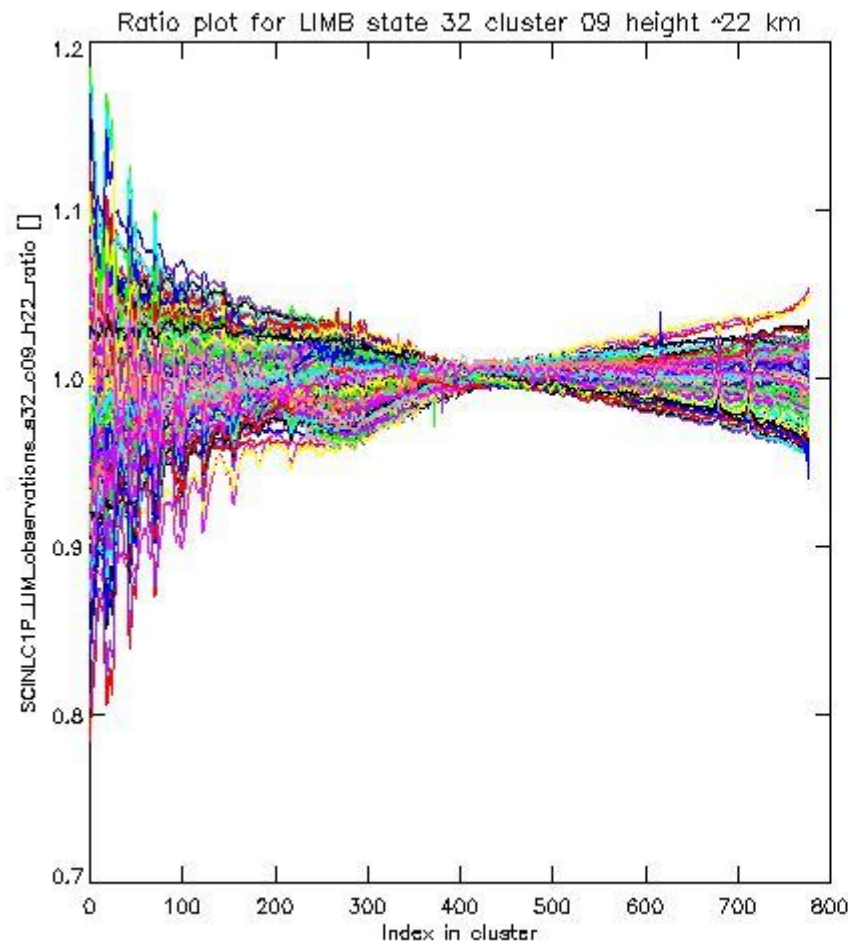
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110212_11.PNG

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 | 12FEB2011 00:01:05.414 |
| Start time of last sample | 12FEB2011 15:20:37.749 |
| Reference period start time | 13JAN2011 00:00:10.986 |
| Reference period stop time | 11FEB2011 23:59:02.672 |
| Channel number | N/A |
| First pixel number (starts at 0) | N/A |
| Last pixel number (starts at 0) | N/A |



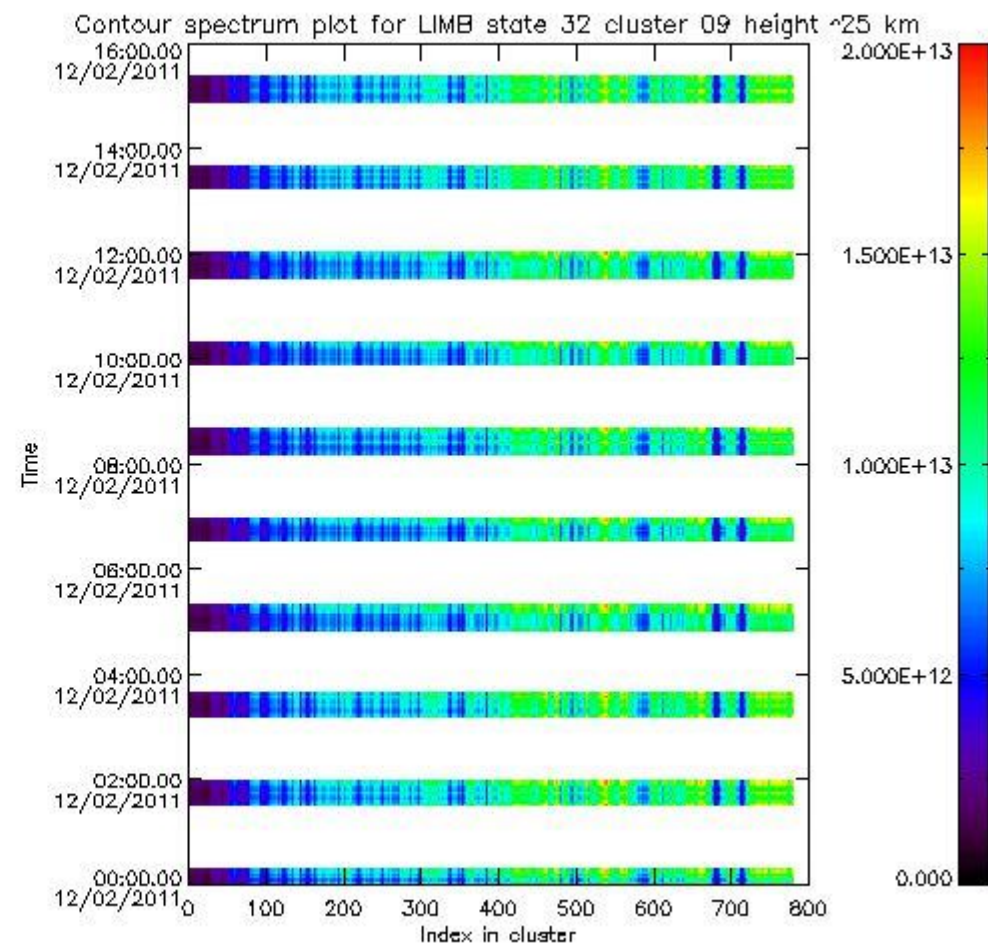
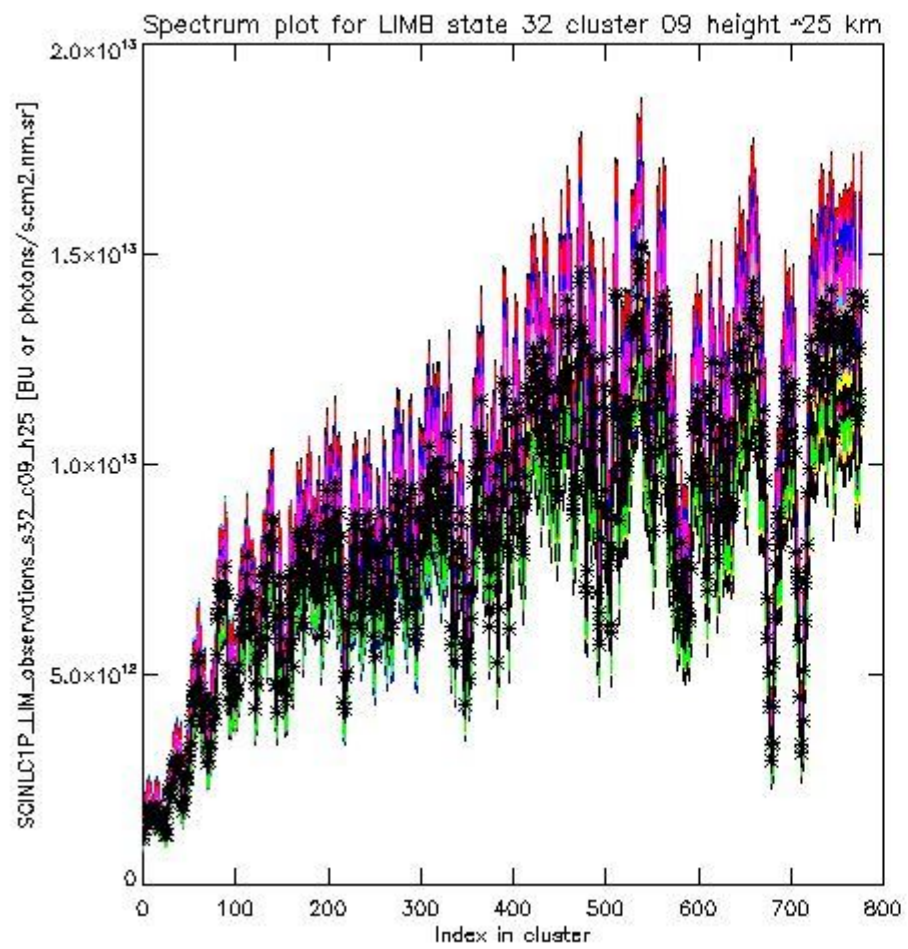
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110212_12.PNG



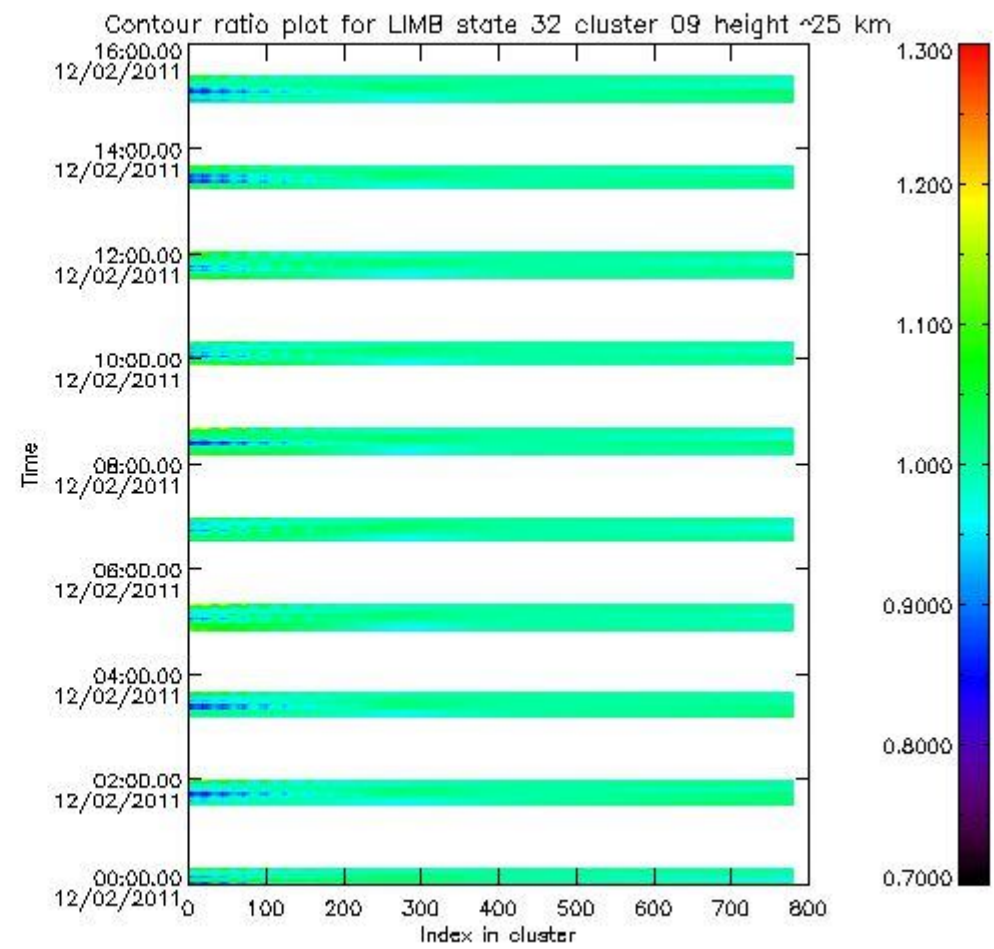
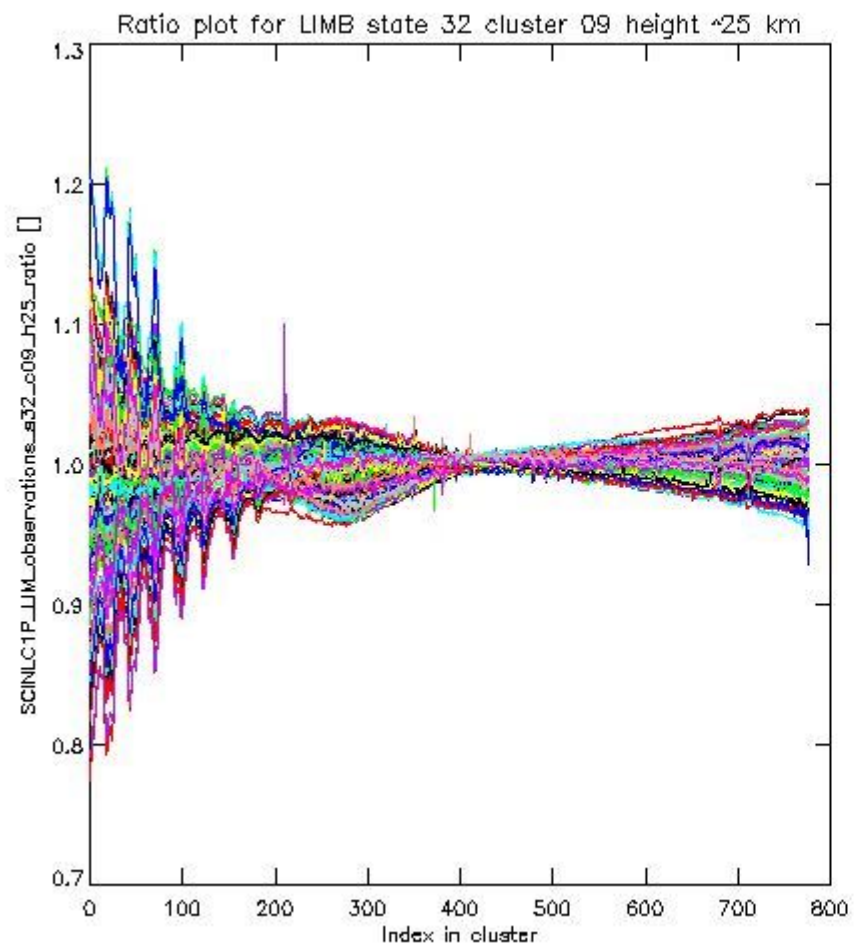
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110212_13.PNG

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 | 12FEB2011 00:01:05.414 |
| Start time of last sample | 12FEB2011 15:20:37.749 |
| Reference period start time | 13JAN2011 00:00:10.986 |
| Reference period stop time | 11FEB2011 23:59:02.672 |
| Channel number | N/A |
| First pixel number (starts at 0) | N/A |
| Last pixel number (starts at 0) | N/A |



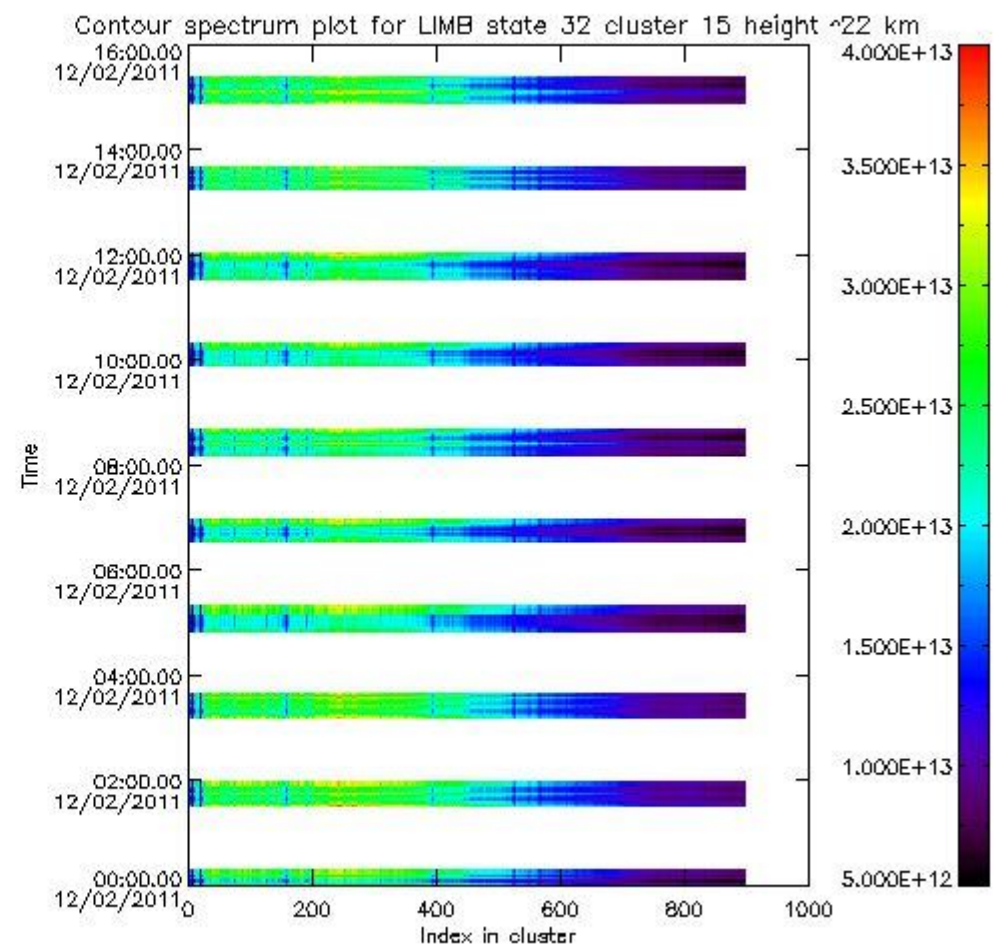
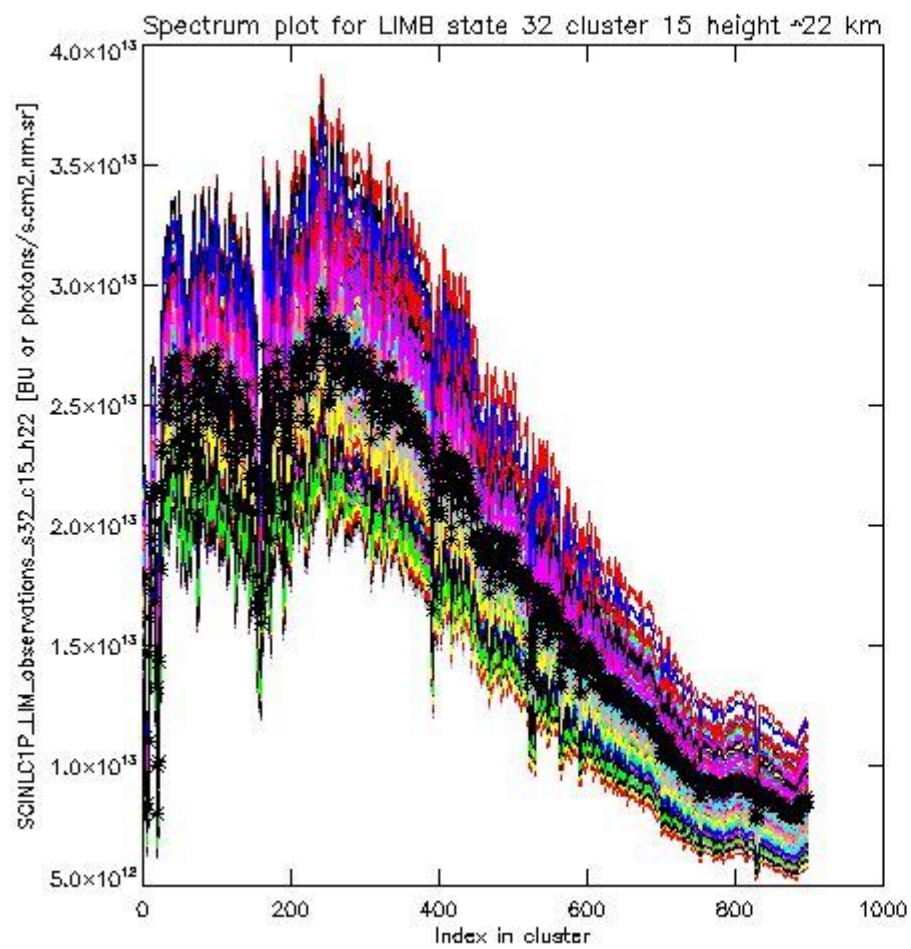
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110212_14.PNG



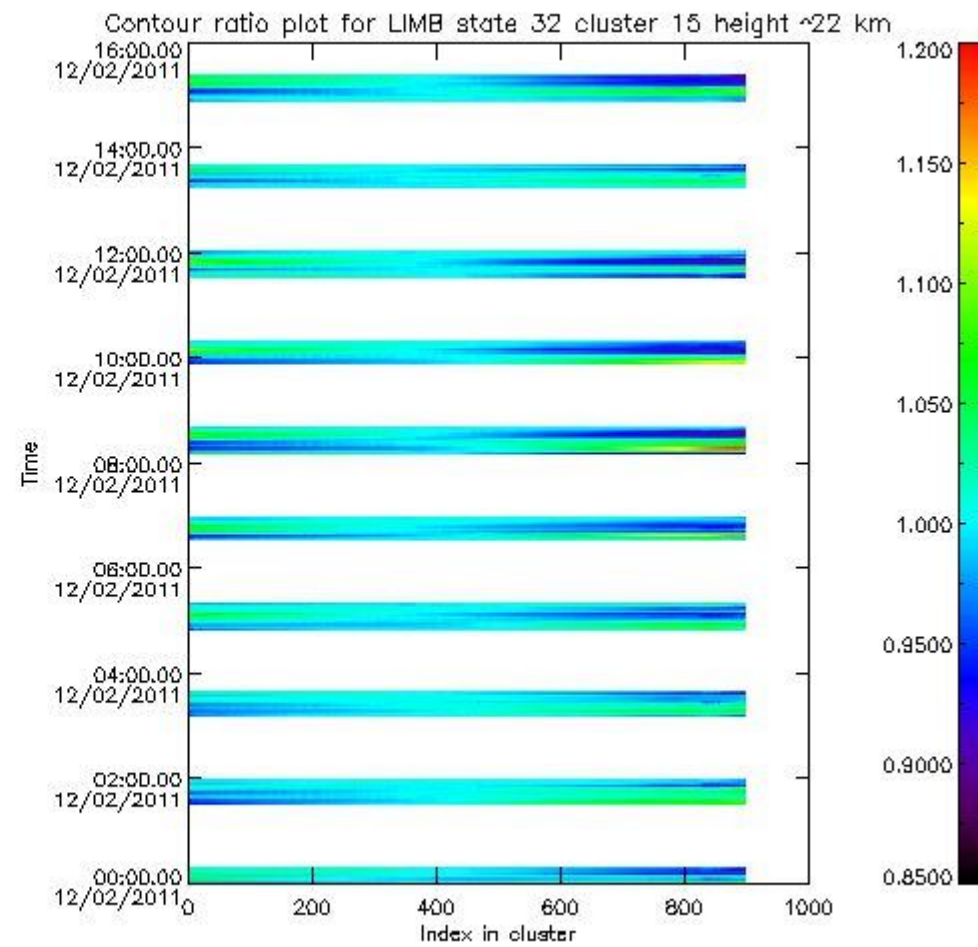
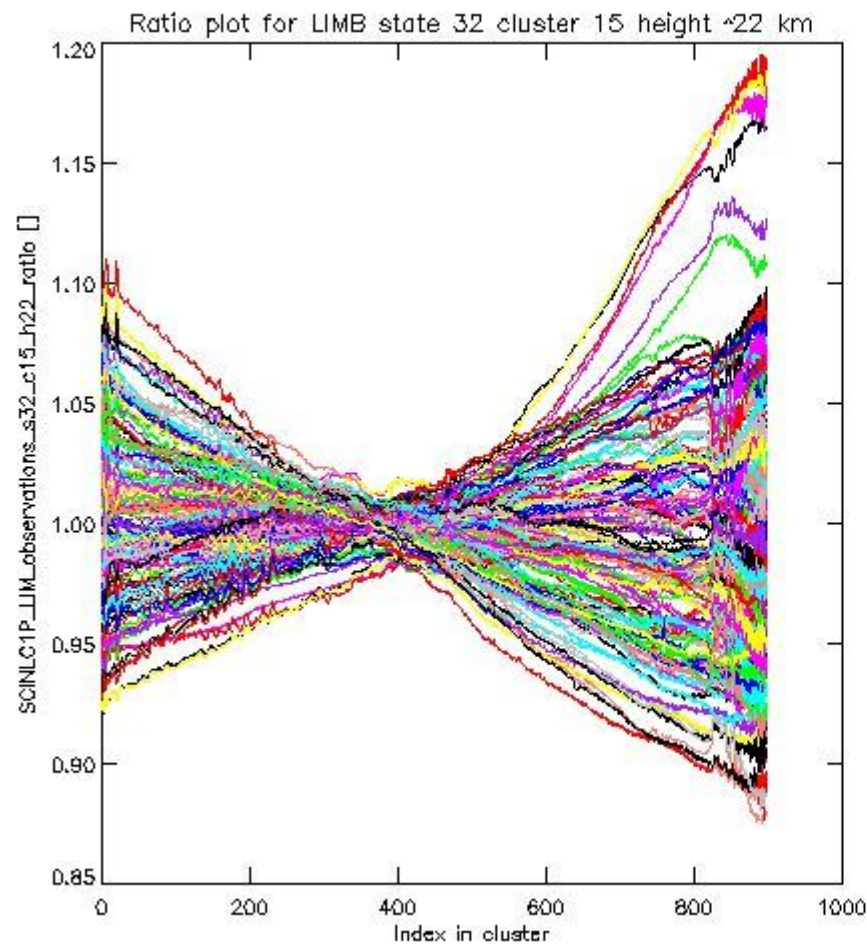
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110212_15.PNG

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 | 12FEB2011 00:01:05.414 |
| Start time of last sample | 12FEB2011 15:20:37.749 |
| Reference period start time | 13JAN2011 00:00:10.986 |
| Reference period stop time | 11FEB2011 23:59:02.672 |
| Channel number | N/A |
| First pixel number (starts at 0) | N/A |
| Last pixel number (starts at 0) | N/A |



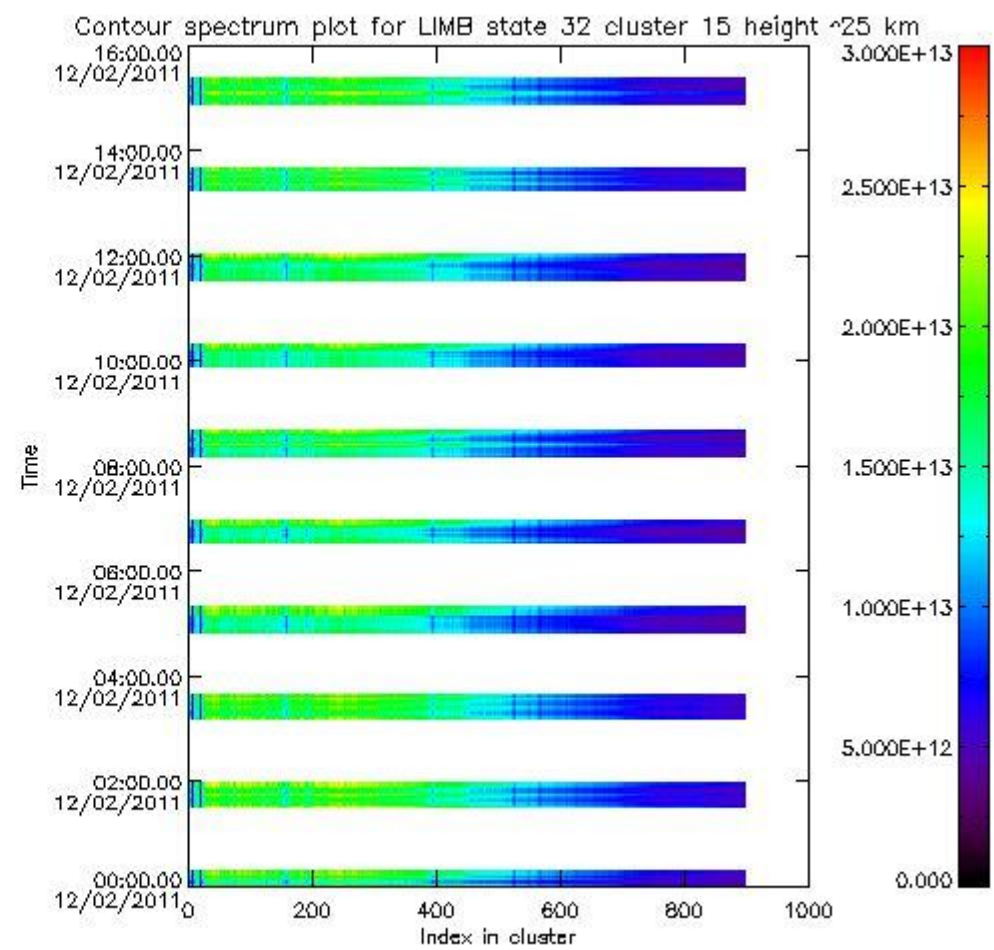
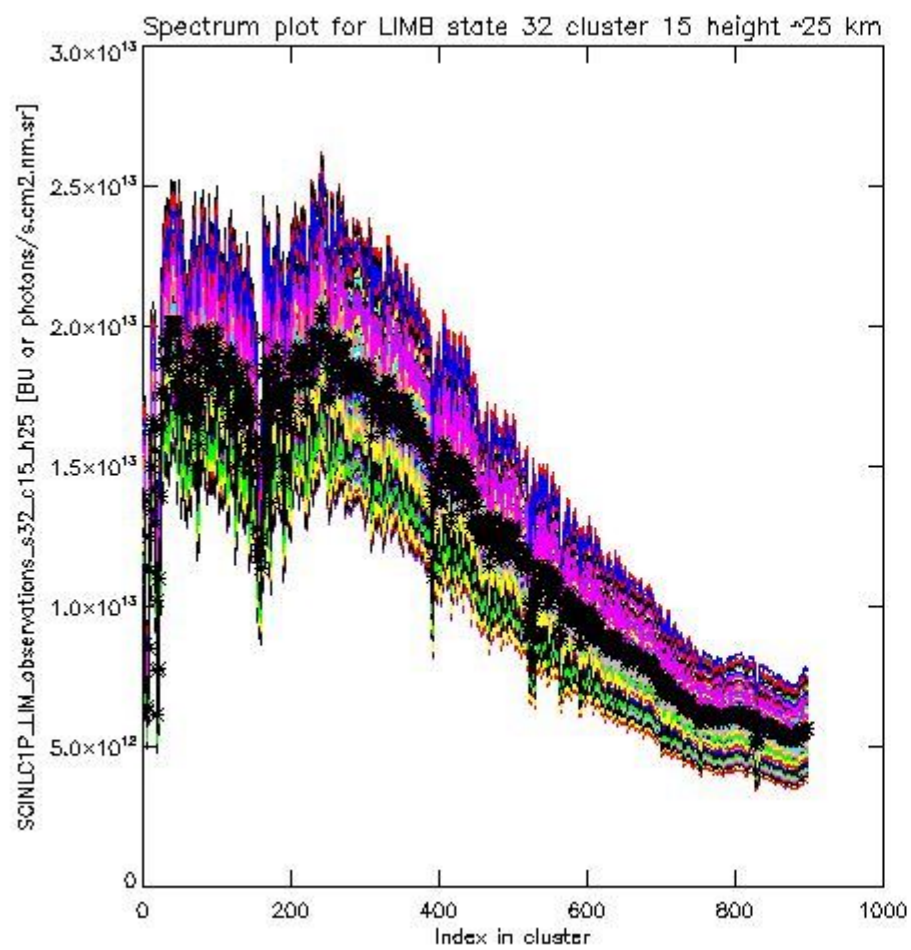
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110212_16.PNG



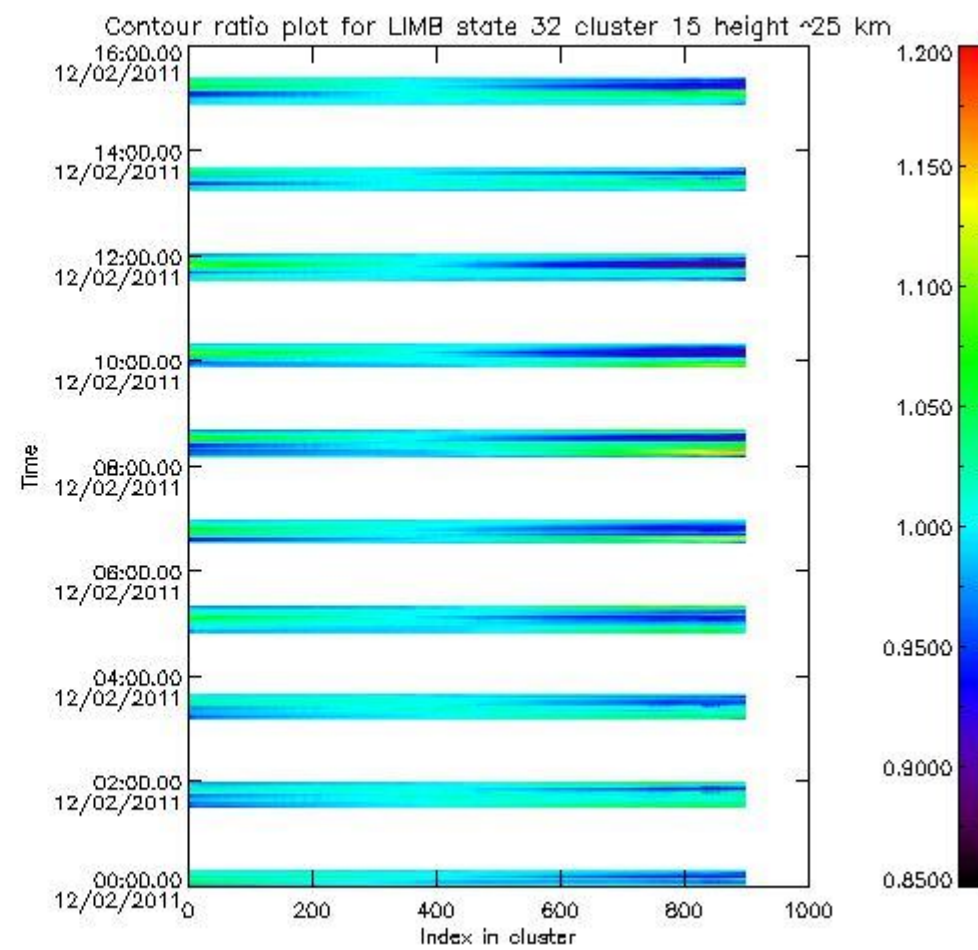
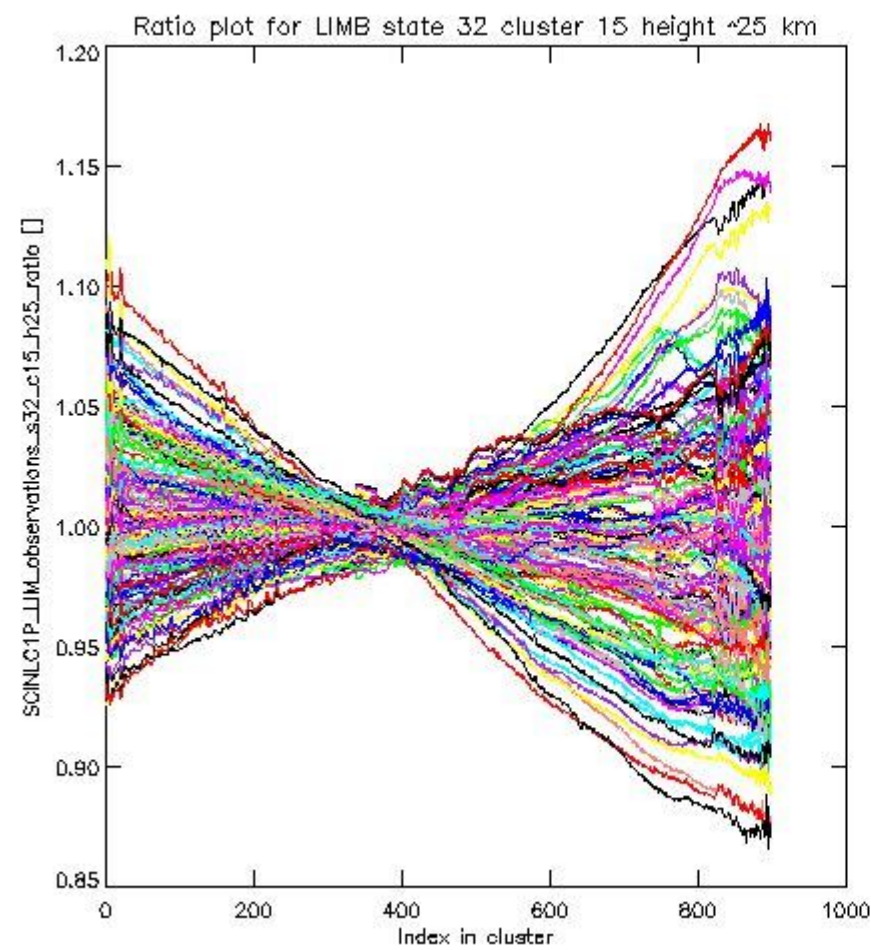
sciamachy_11b_source_packet_report_SCIA_7_04_U_20110212_17.PNG

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 | 12FEB2011 00:01:05.414 |
| Start time of last sample | 12FEB2011 15:20:37.749 |
| Reference period start time | 13JAN2011 00:00:10.986 |
| Reference period stop time | 11FEB2011 23:59:02.672 |
| Channel number | N/A |
| First pixel number (starts at 0) | N/A |
| Last pixel number (starts at 0) | N/A |



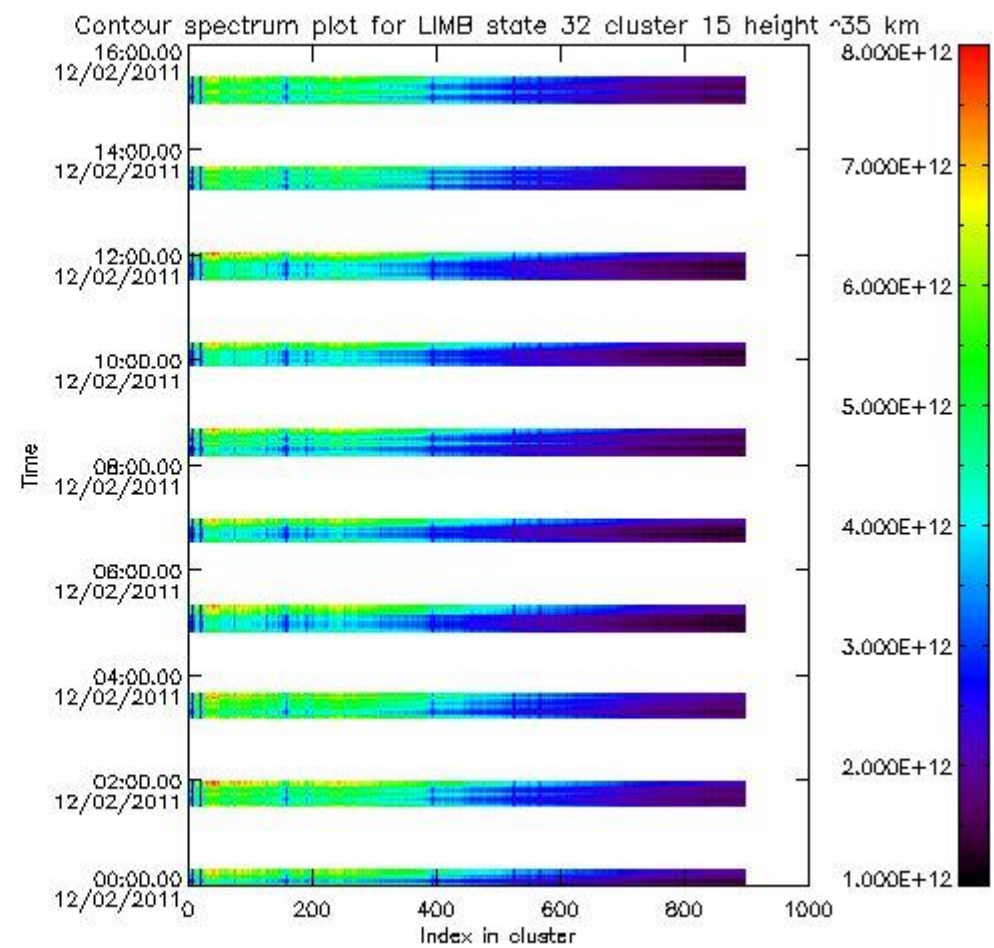
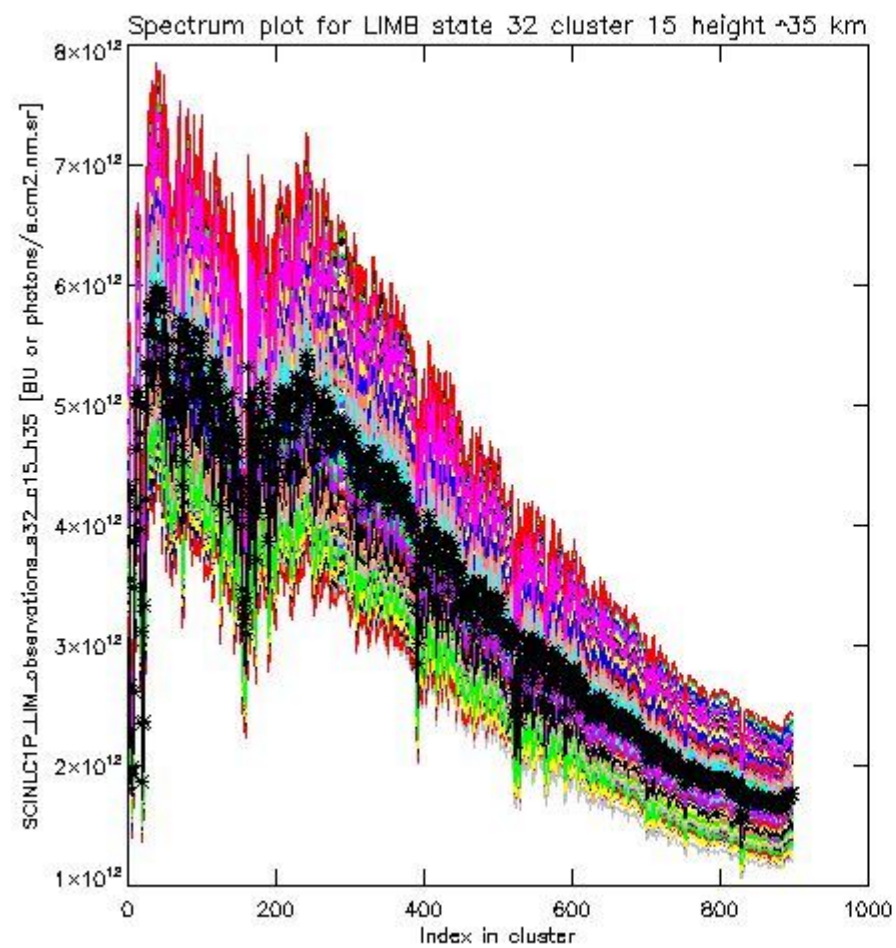
sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110212_18.PNG

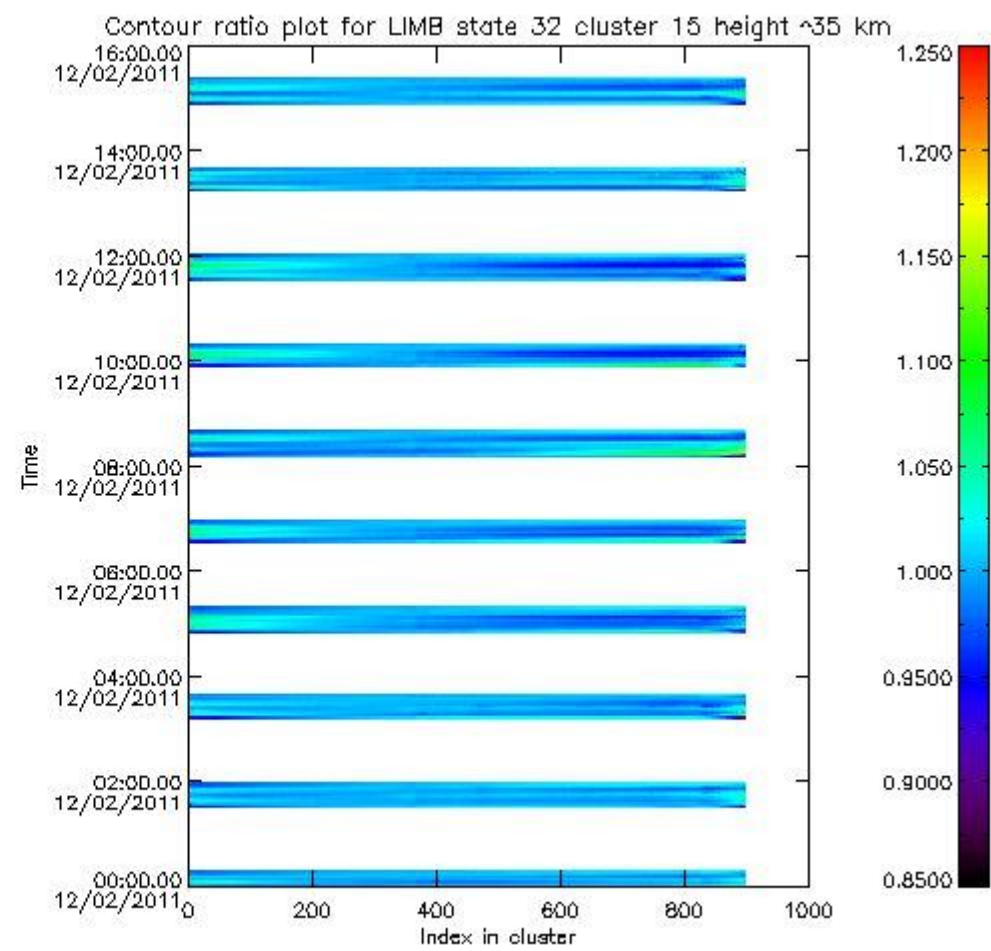
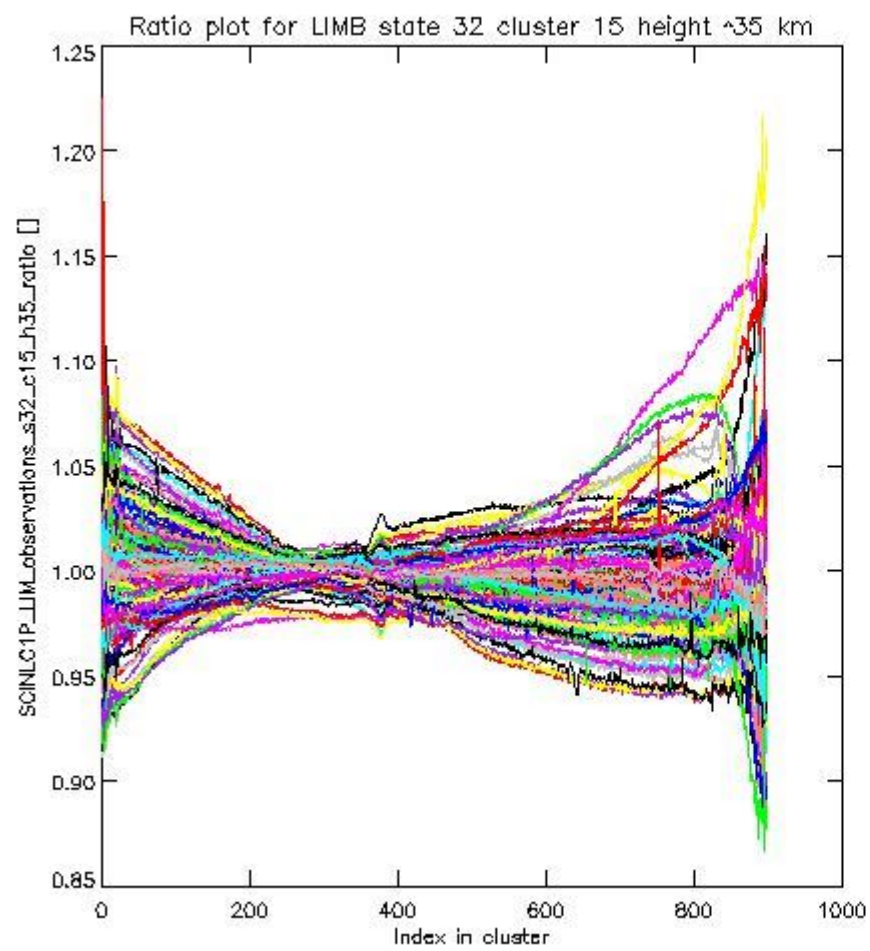


sciamachy_11b_source_packet_report_SCIA_7_04_U_20110212_19.PNG

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 | 12FEB2011 00:01:05.414 |
| Start time of last sample | 12FEB2011 15:20:37.749 |
| Reference period start time | 13JAN2011 00:00:10.986 |
| Reference period stop time | 11FEB2011 23:59:02.672 |
| Channel number | N/A |
| First pixel number (starts at 0) | N/A |
| Last pixel number (starts at 0) | N/A |





sciamachy_l1b_source_packet_report_SCIA_7_04_U_20110212_21.PNG

