

## 2. SCIAMACHY Daily Report for level 2 products

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## 2.1 General Info

This report contains a daily analysis on parameters extracted from SCIAMACHY level 2 data (The SCI\_OL\_\_2P product).

### 2.1.1 Report summary

The table below shows general characteristics of the data that are included into this report.

Item	Value
Report version	1.6 (28-07-2008)
Time of report generation	12OCT2008 06:01:42
Data source version	SCIA-OL/3.01-R
Processing scope for products	24SEP2008 00:00:00 to 25SEP2008 00:00:00
Start time of first product within scope	23SEP2008 22:47:15
Stop time of last product within scope	25SEP2008 00:52:43
Total number of level 2 products	16
Number of level 2 products with errors	0

### 2.1.2 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	Prod err	Fit summary
0	<a href="#">SCI_OL__2PRDPA20080923_224715_000033252072_00216_34338_1239.N1</a>	23SEP2008 22:47:15	23SEP2008 23:42:40	0	GOOD
1	<a href="#">SCI_OL__2PRDPA20080924_003148_000031452072_00217_34339_1241.N1</a>	24SEP2008 00:31:48	24SEP2008 01:24:13	0	GOOD
2	<a href="#">SCI_OL__2PRDPA20080924_021332_000030202072_00218_34340_1243.N1</a>	24SEP2008 02:13:32	24SEP2008 03:03:53	0	GOOD
3	<a href="#">SCI_OL__2PRDPA20080924_035300_000031452072_00219_34341_1246.N1</a>	24SEP2008 03:53:00	24SEP2008 04:45:26	0	GOOD
4	<a href="#">SCI_OL__2PRDPA20080924_053446_000030202072_00220_34342_1248.N1</a>	24SEP2008 05:34:46	24SEP2008 06:25:06	0	GOOD
5	<a href="#">SCI_OL__2PRDPA20080924_071413_000031452072_00221_34343_1256.N1</a>	24SEP2008 07:14:13	24SEP2008 08:06:39	0	GOOD
6	<a href="#">SCI_OL__2PRDPA20080924_085558_000030202072_00222_34344_1258.N1</a>	24SEP2008 08:55:58	24SEP2008 09:46:19	0	GOOD
7	<a href="#">SCI_OL__2PRDPA20080924_103526_000031452072_00223_34345_1290.N1</a>	24SEP2008 10:35:26	24SEP2008 11:27:52	0	GOOD
8	<a href="#">SCI_OL__2PRDPA20080924_121711_000030202072_00224_34346_1299.N1</a>	24SEP2008 12:17:11	24SEP2008 13:07:32	0	GOOD
9	<a href="#">SCI_OL__2PRDPA20080924_135639_000031452072_00225_34347_1306.N1</a>	24SEP2008 13:56:39	24SEP2008 14:49:04	0	GOOD
10	<a href="#">SCI_OL__2PRDPA20080924_153824_000030202072_00226_34348_1310.N1</a>	24SEP2008 15:38:24	24SEP2008 16:28:45	0	GOOD
11	<a href="#">SCI_OL__2PRDPA20080924_171812_000030762072_00227_34349_1311.N1</a>	24SEP2008 17:18:12	24SEP2008 18:09:29	0	GOOD
12	<a href="#">SCI_OL__2PRDPA20080924_185957_000030202072_00228_34350_1313.N1</a>	24SEP2008 18:59:57	24SEP2008 19:50:18	0	GOOD
13	<a href="#">SCI_OL__2PRDPA20080924_203905_000031452072_00229_34351_1315.N1</a>	24SEP2008 20:39:05	24SEP2008 21:31:30	0	GOOD
14	<a href="#">SCI_OL__2PRDPA20080924_222050_000030202072_00230_34352_1317.N1</a>	24SEP2008 22:20:50	24SEP2008 23:11:11	0	GOOD
15	<a href="#">SCI_OL__2PRDPA20080925_000018_000031452072_00231_34353_1319.N1</a>	25SEP2008 00:00:18	25SEP2008 00:52:43	0	GOOD

## 2.2 Product Quality Indicators

### 2.2.1 Cloud parameters

This is a new section that shows information about the cloud parameters estimation, in particular cloud fractions and cloud top height. IMPORTANT NOTE: The contents and layout of this section are still being validated. Please use with caution.

#### General statistics:

Total number of cloud data DSRs: 146640

Total number of cloud data DSRs with good quality flag (=0): 146640 (100.0 %)

Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	146640	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	146640	0.16977	0.12500	0.12500	0.25000	0.059932	s
CL_FRAC	146640	0.35751	0.31441	0.0000	1.0000	0.29436	-
CL_FRAC_ERR	146640	0.0000	0.0000	0.0000	0.0000	0.0000	rel. fraction
PMD_READ	146640	5.4326	4.0000	4.0000	8.0000	1.9178	
PMD_READ_CL[0]	146640	0.18286	0.0000	0.0000	8.0000	0.91031	-
PMD_READ_CL[1]	146640	1.2909	0.0000	0.0000	8.0000	2.4509	-
CL_TOP_HEIGHT	122902	4.0085	2.2209	0.0000	17.000	4.2754	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	122902	56.921	55.297	0.0000	101.00	42.223	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	146640	11100000	11100000	11100000	11100000	0.0000	flags. Bit definition = 0: low or high cloud; 1: ice or water cloud; 2: thick or thin cloud; 3-15: not used
CLOUD_FLAGS	146640	11001011	11000100	11000000	11100000	3418.9	flags
AERO_ABSO_IND	146640	3.1069	3.5655	-1.0592	15.223	2.1631	
AERO_IND_DIAG	146640	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	146640	01010111	00000000	00000000	11000000	24468.	flags

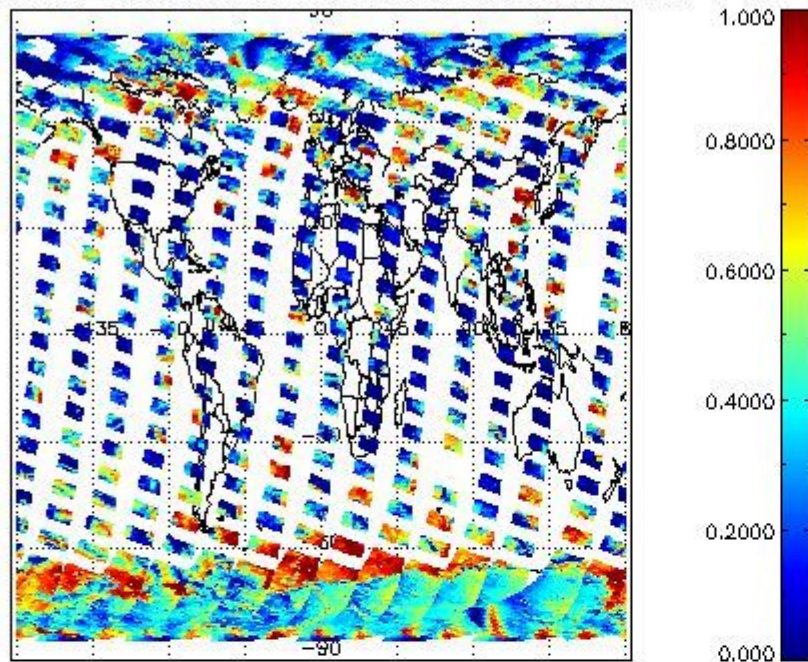
### Time and geolocation plots:

Plots are available for the following parameters:

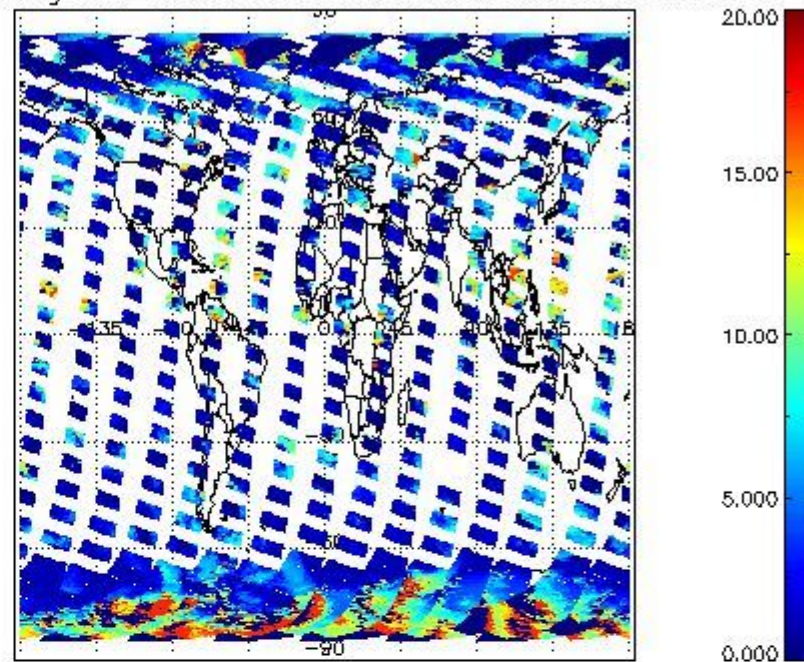
Number	Data item ID
0	cl_frac
1	cl_top_height
2	cl_opt_depth
3	cloud_flags



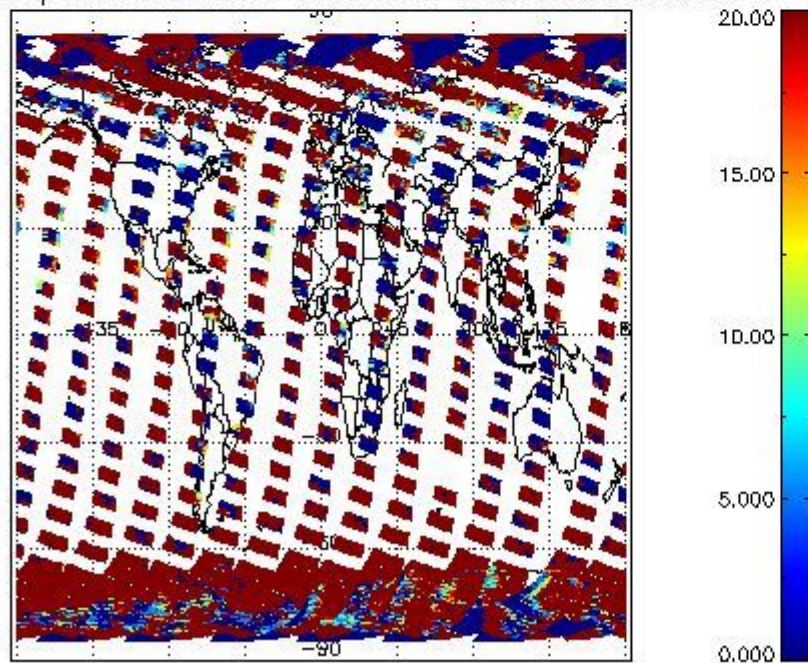
cL\_frac for 24SEP2008 00:00:00 to 25SEP2008 00:00:00



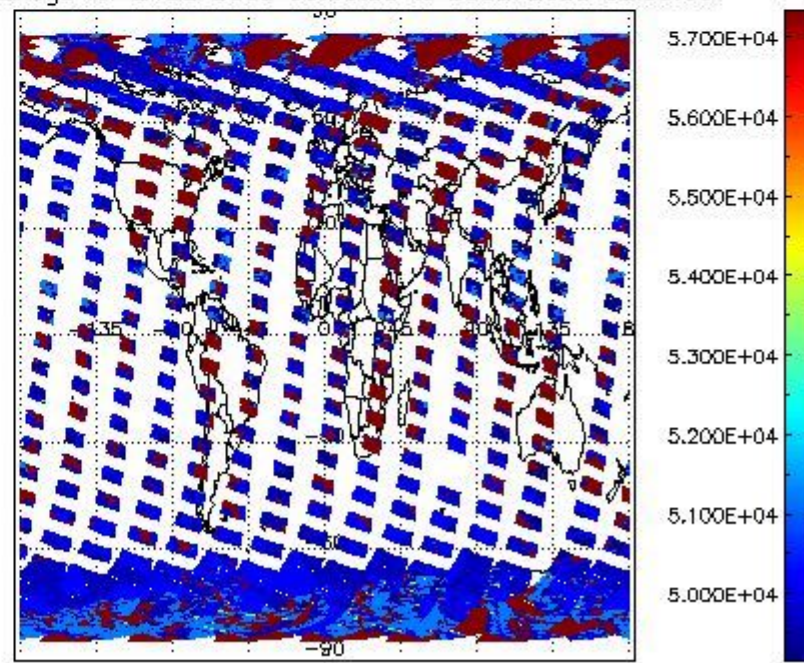
cL\_top\_height for 24SEP2008 00:00:00 to 25SEP2008 00:00:00



cL\_opt\_depth for 24SEP2008 00:00:00 to 25SEP2008 00:00:00



cloud\_flags for 24SEP2008 00:00:00 to 25SEP2008 00:00:00



## 2.2.2 Nadir

This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

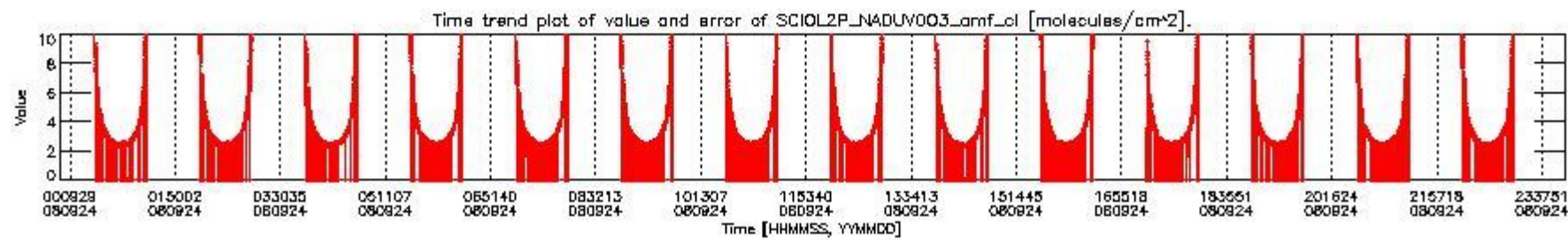
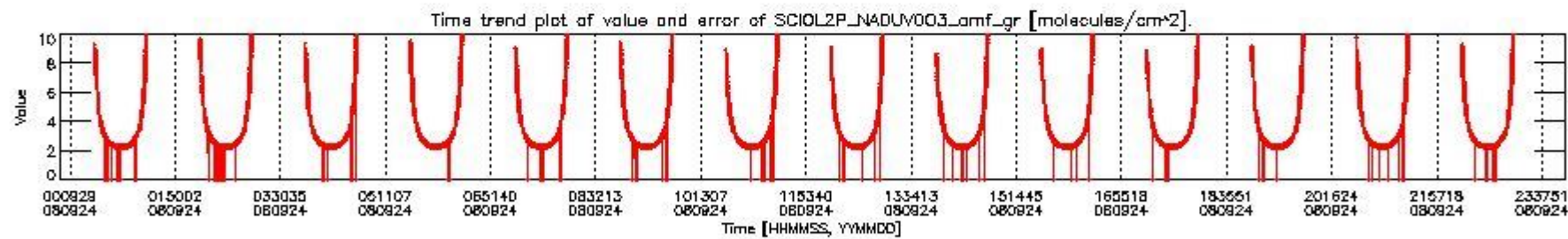
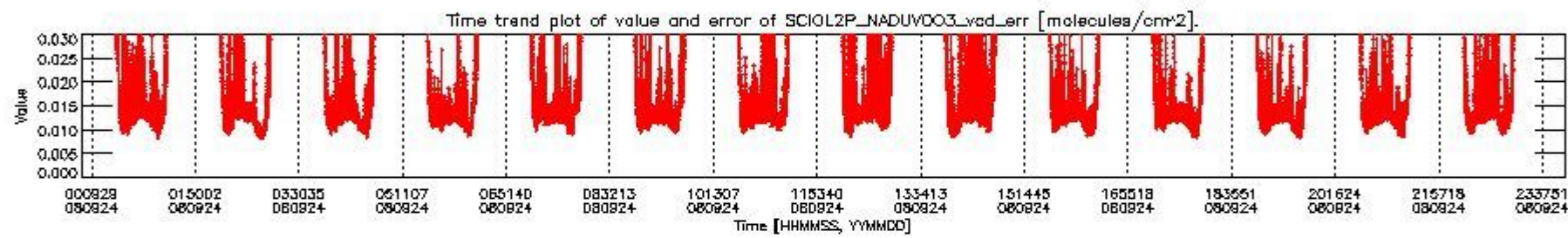
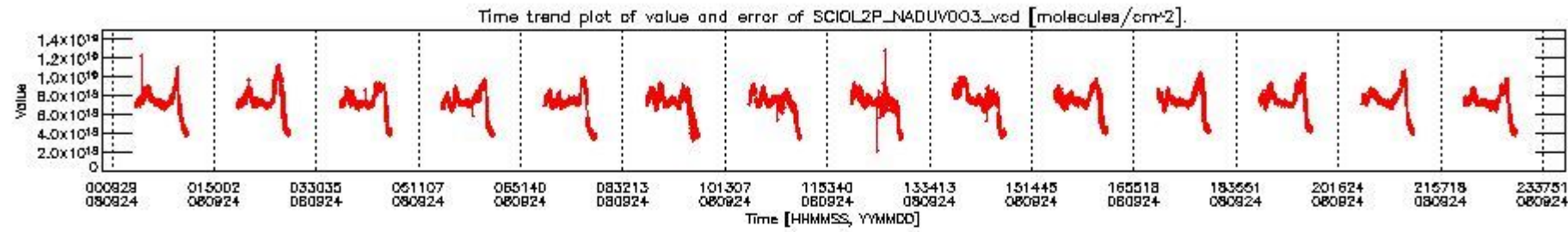
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr



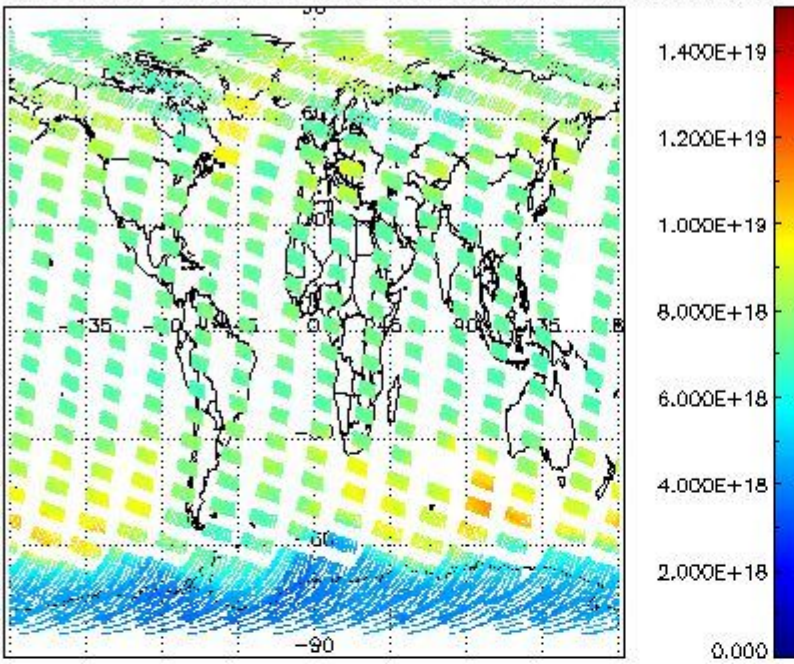
3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing\_start time as suggested by the product sensing\_start time in the MPH.

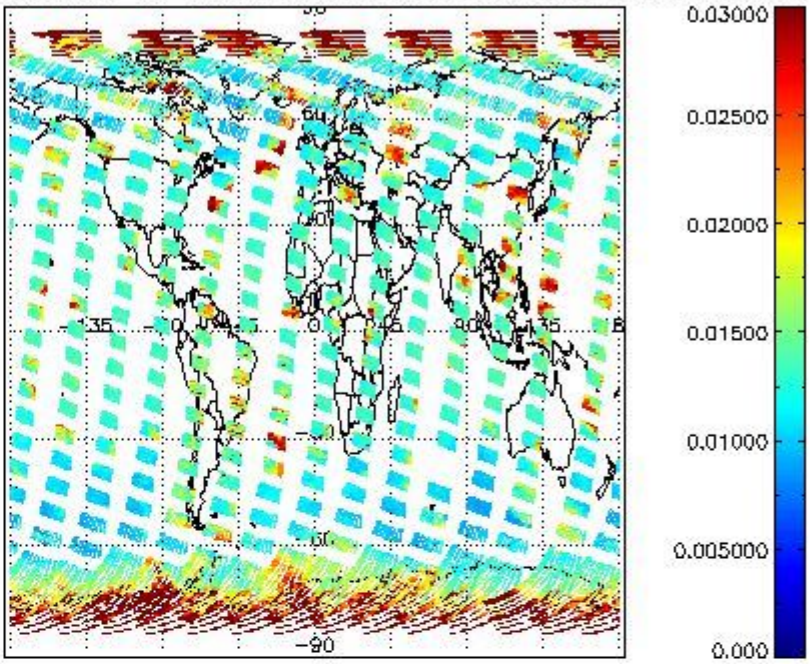




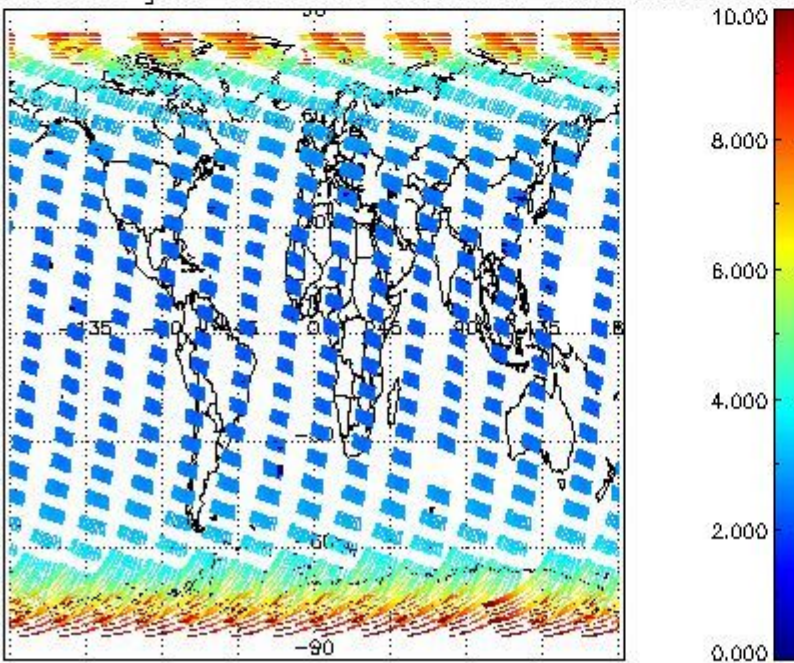
SCIOL2P\_NADUV003\_vcd for 24SEP2008 00:00:00 to 25SEP2008 00:00:00



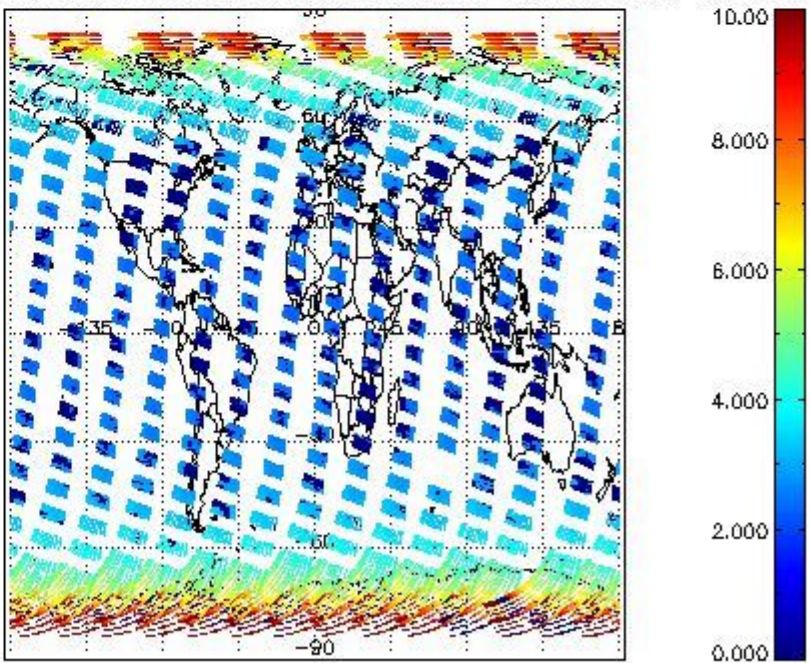
SCIOL2P\_NADUV003\_vcd\_err for 24SEP2008 00:00:00 to 25SEP2008 00:00:00



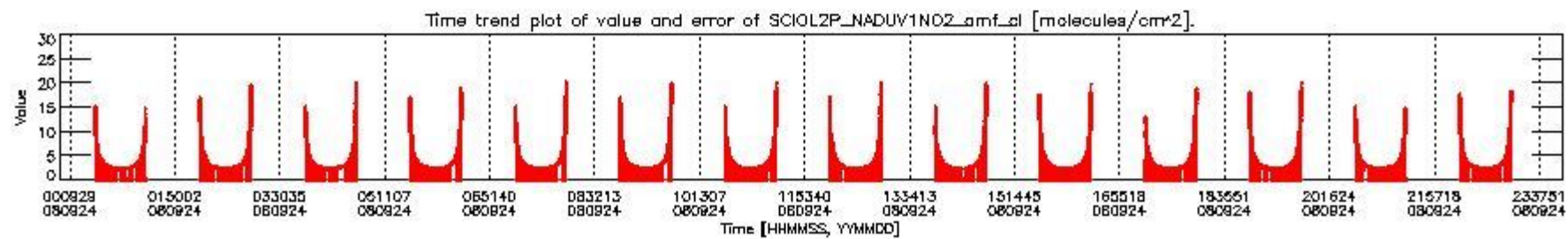
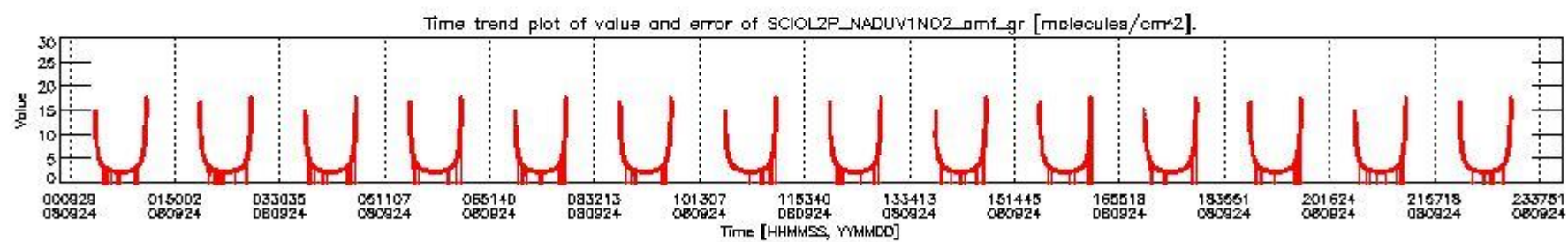
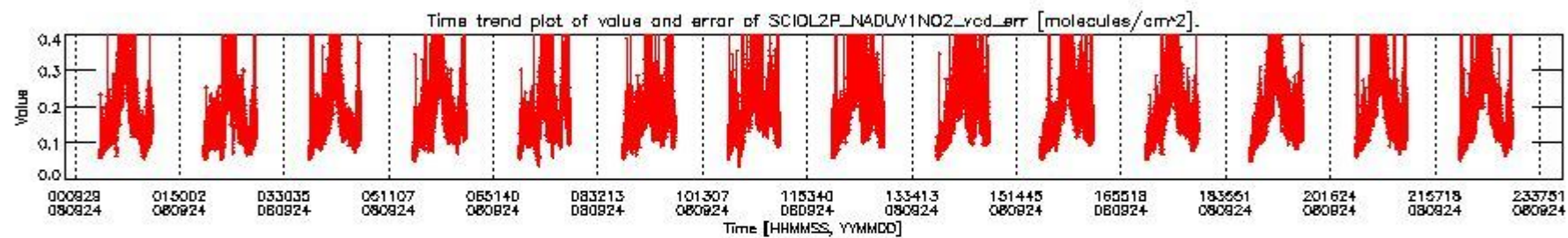
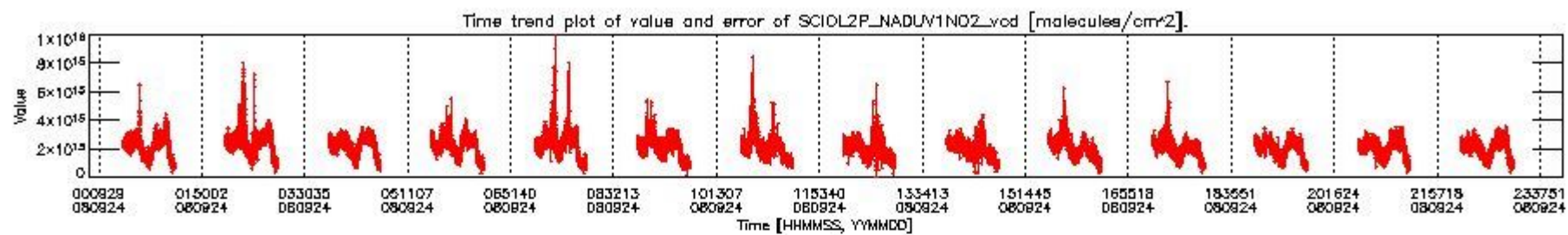
SCIOL2P\_NADUV003\_amf\_gr for 24SEP2008 00:00:00 to 25SEP2008 00:00:00



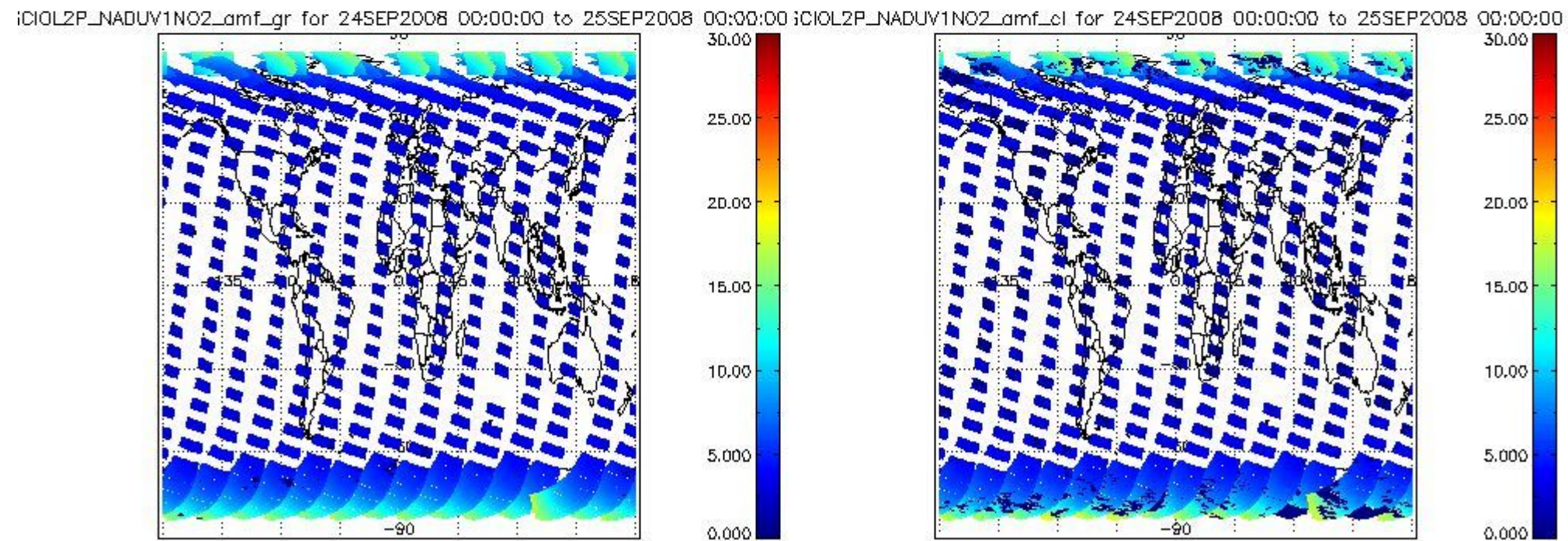
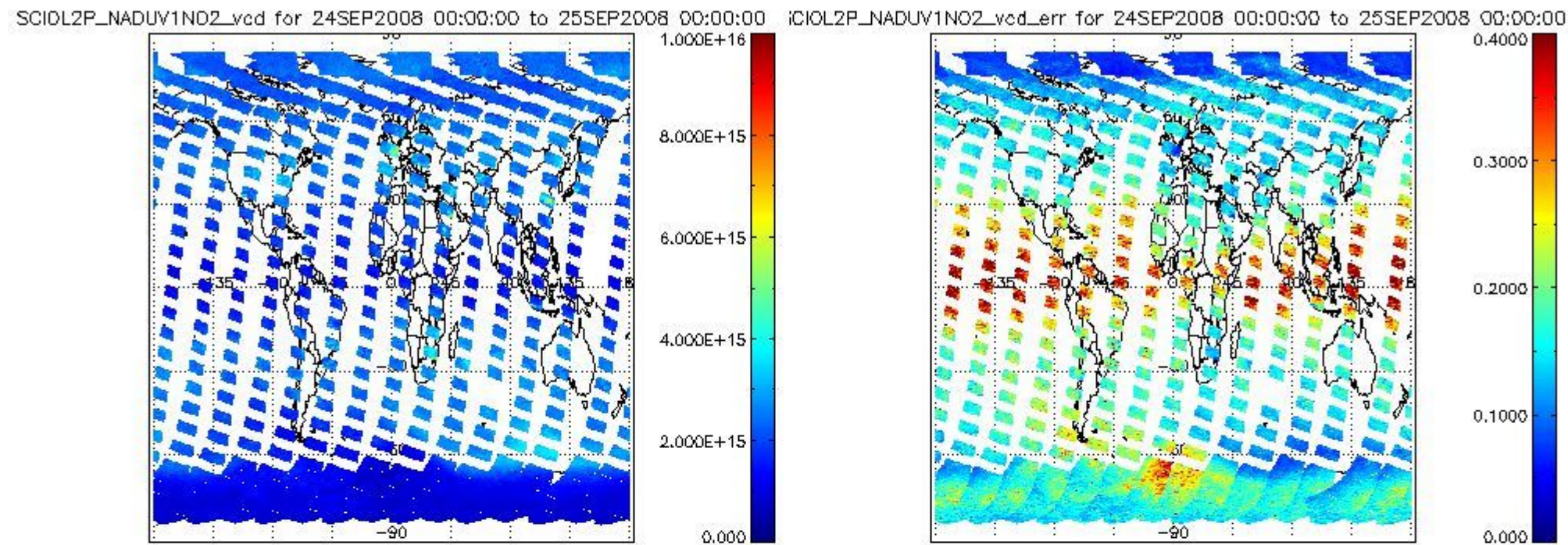
SCIOL2P\_NADUV003\_amf\_cl for 24SEP2008 00:00:00 to 25SEP2008 00:00:00











### 2.2.3 Limb

This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2PLIMUV003_main_species
1	SCIOL2PLIMUV1NO2_main_species

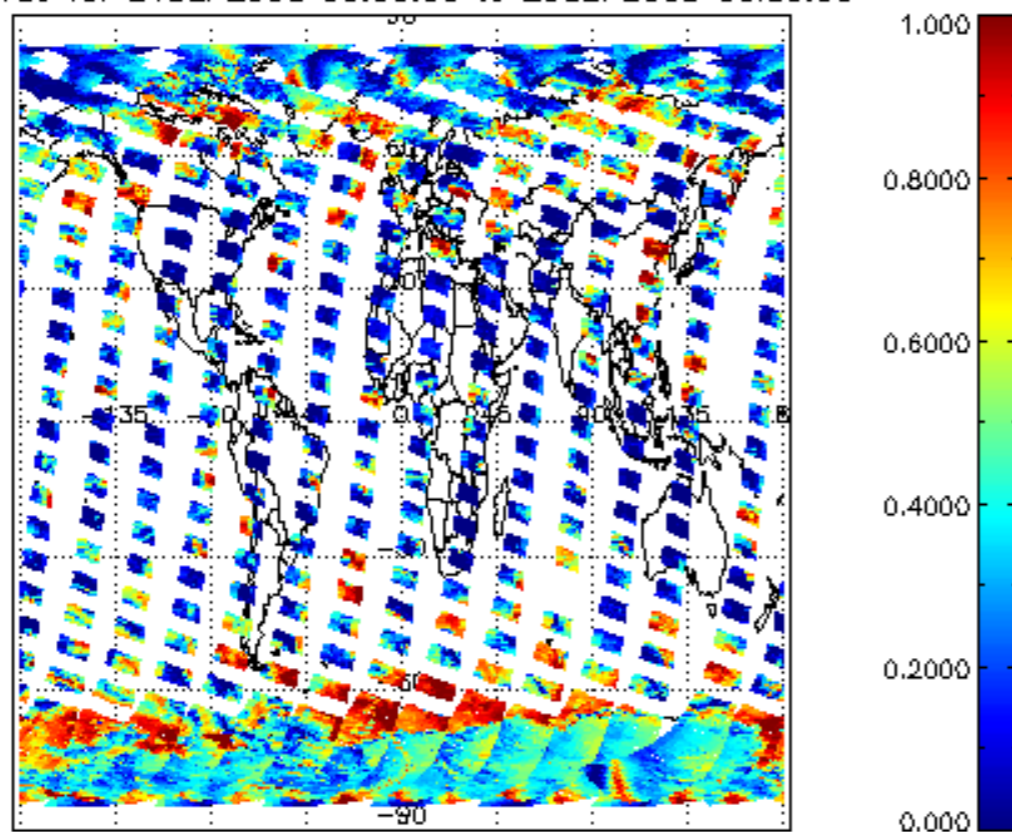
The following plots shows for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

## 2.3 ADF monitoring

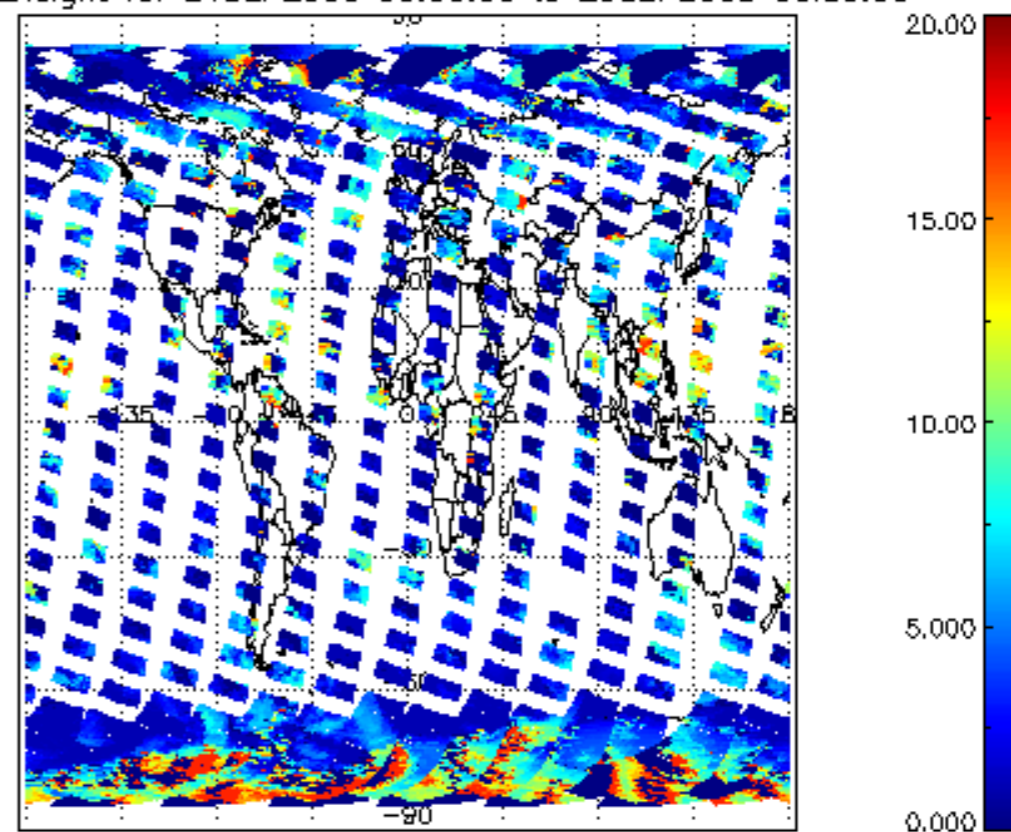
Number	ADF
	<b>IN_ (INITIALISATION_FILE)</b>
0	SCI_IN_AXNPDE20070629_092400_20070720_000000_20991231_235959
	<b>ECF (ECMWF_FILE)</b>
1	NOT USED



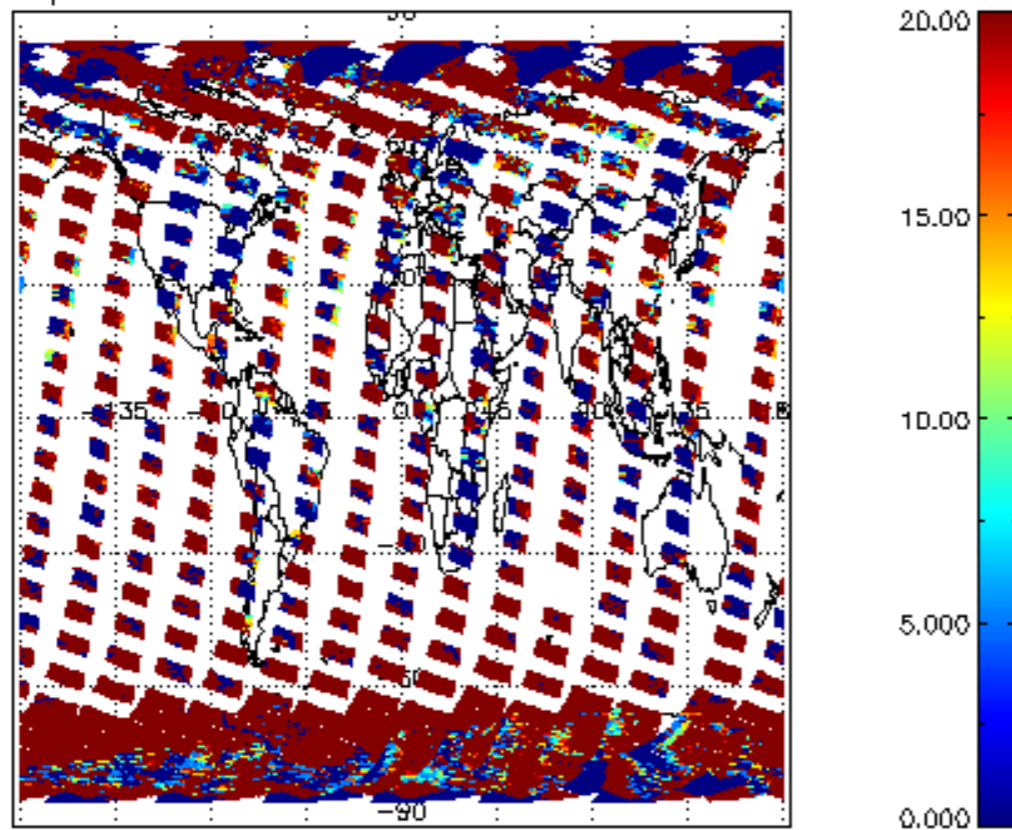
cl\_frac for 24SEP2008 00:00:00 to 25SEP2008 00:00:00



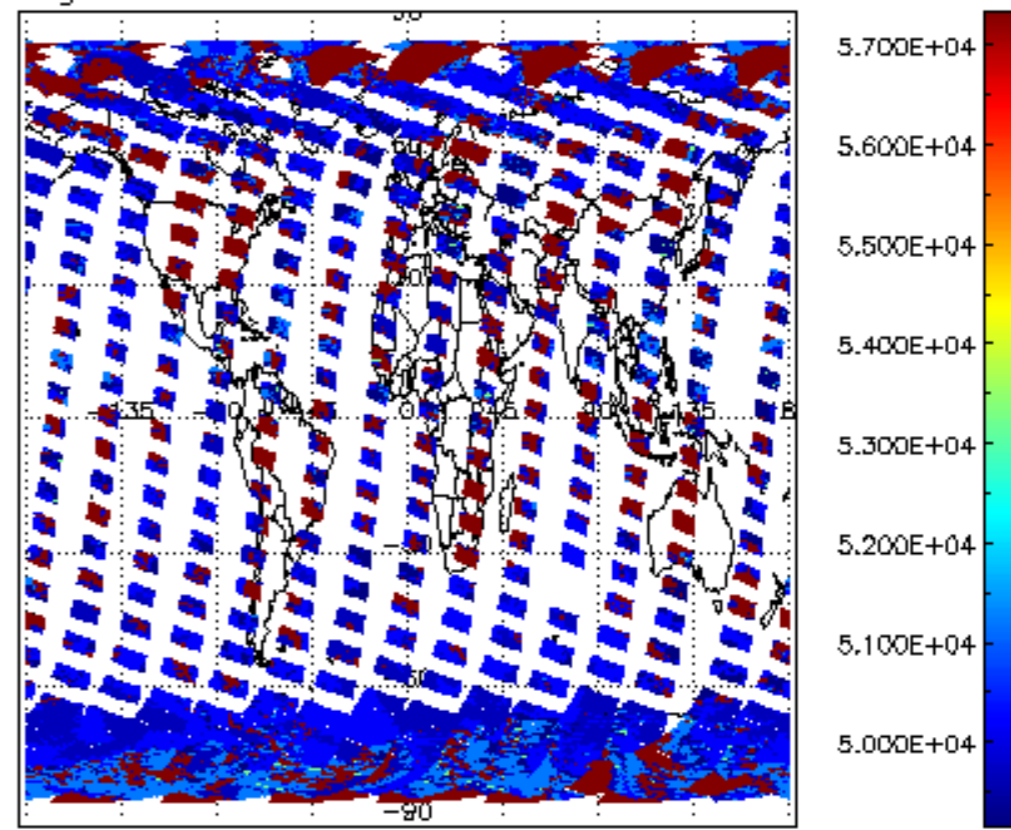
cl\_top\_height for 24SEP2008 00:00:00 to 25SEP2008 00:00:00

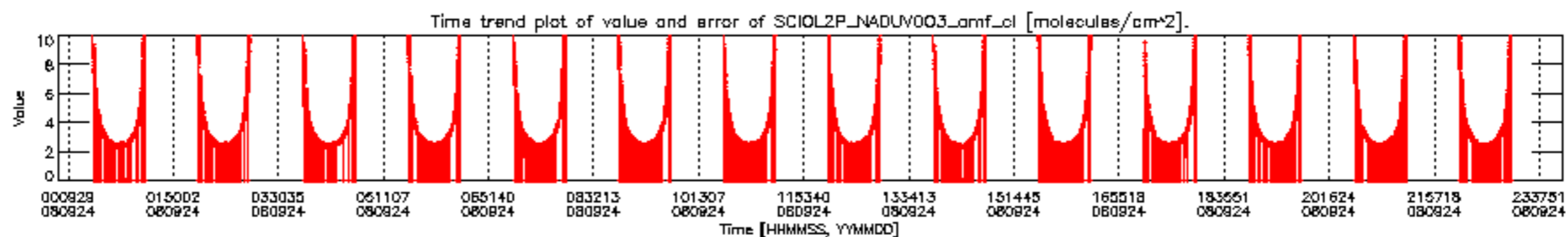
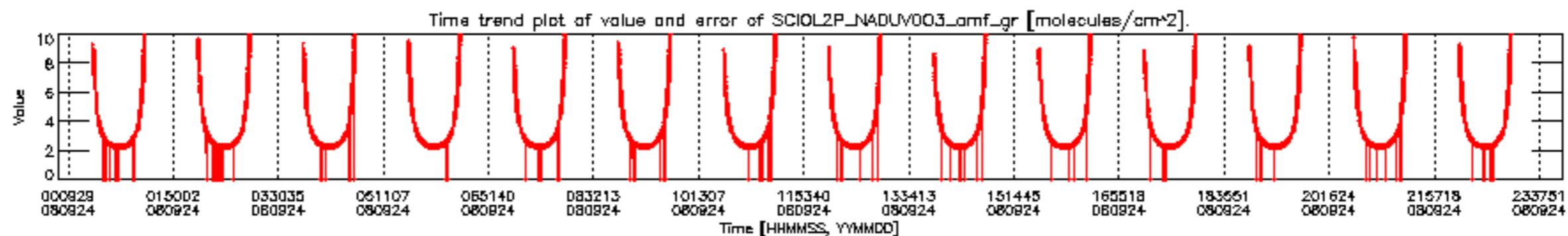
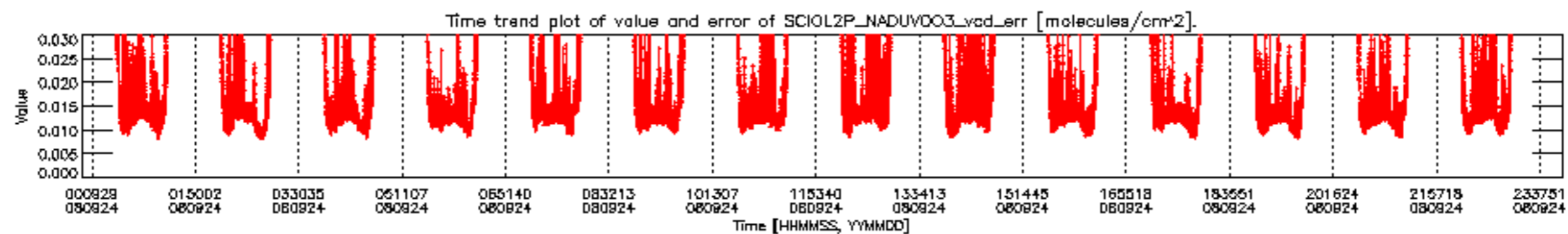
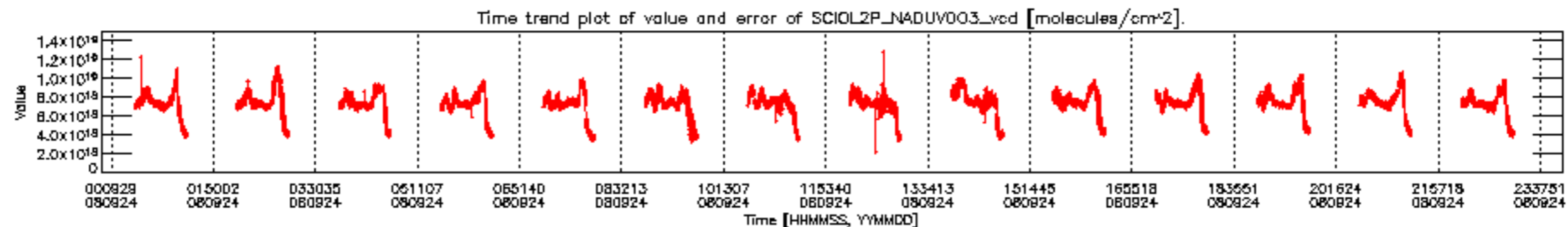


cl\_opt\_depth for 24SEP2008 00:00:00 to 25SEP2008 00:00:00



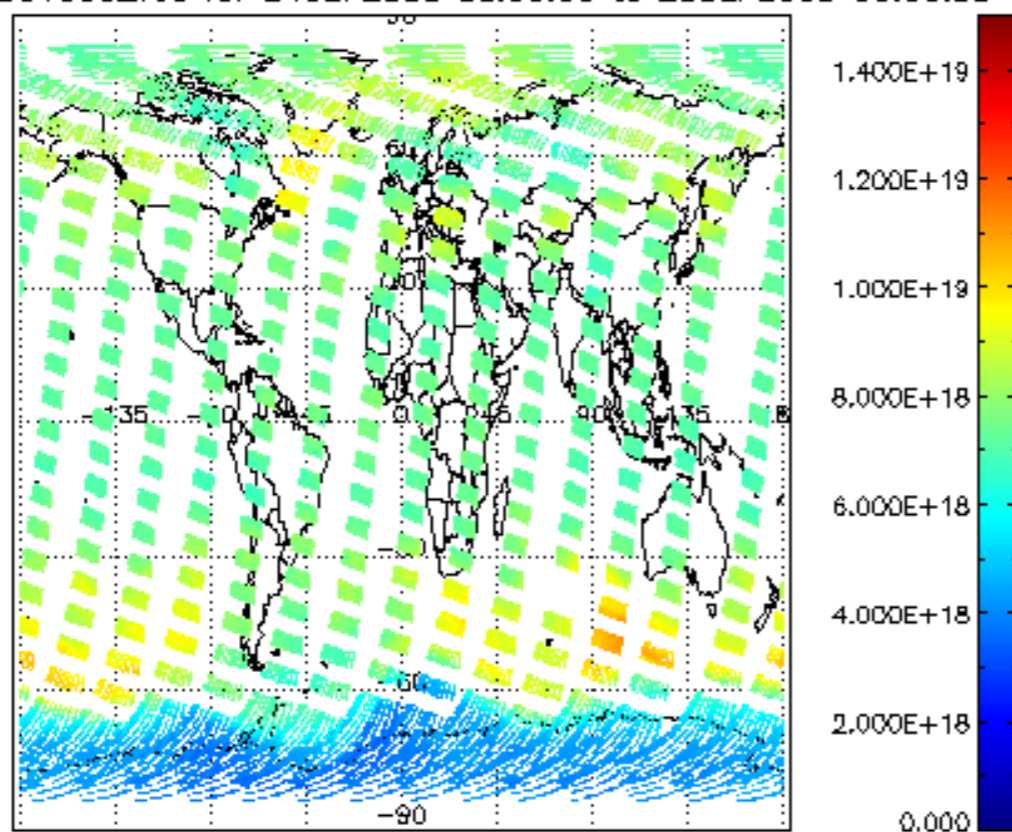
cloud\_flags for 24SEP2008 00:00:00 to 25SEP2008 00:00:00



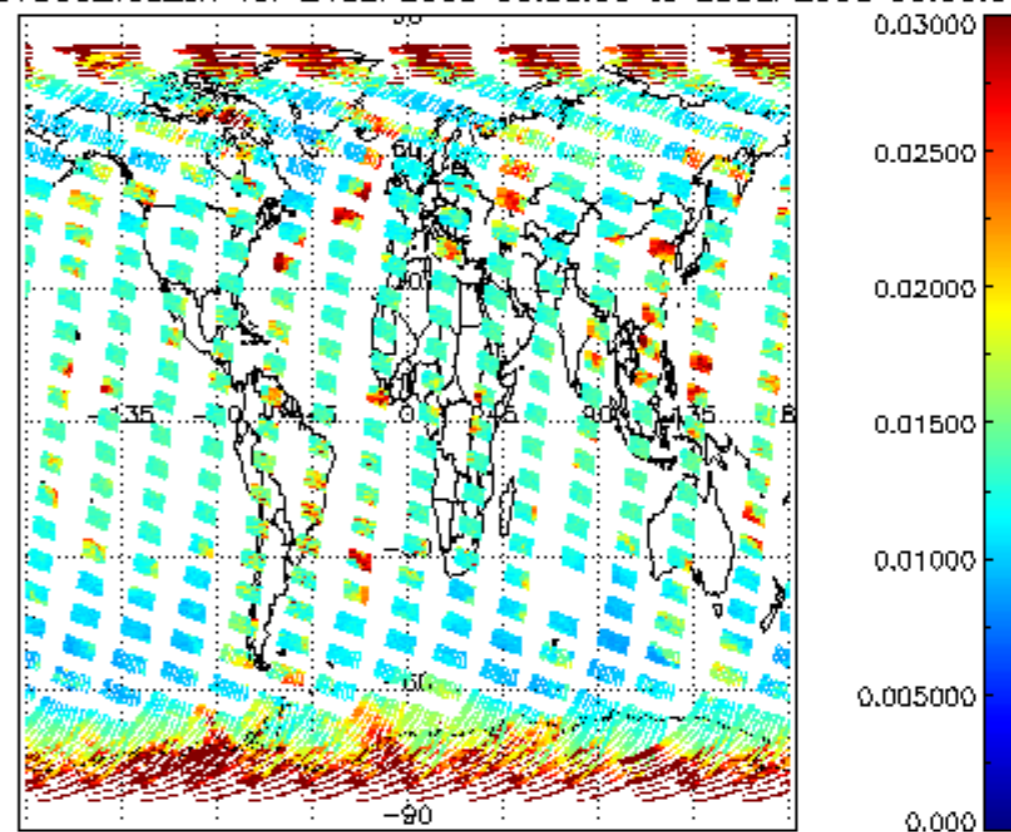




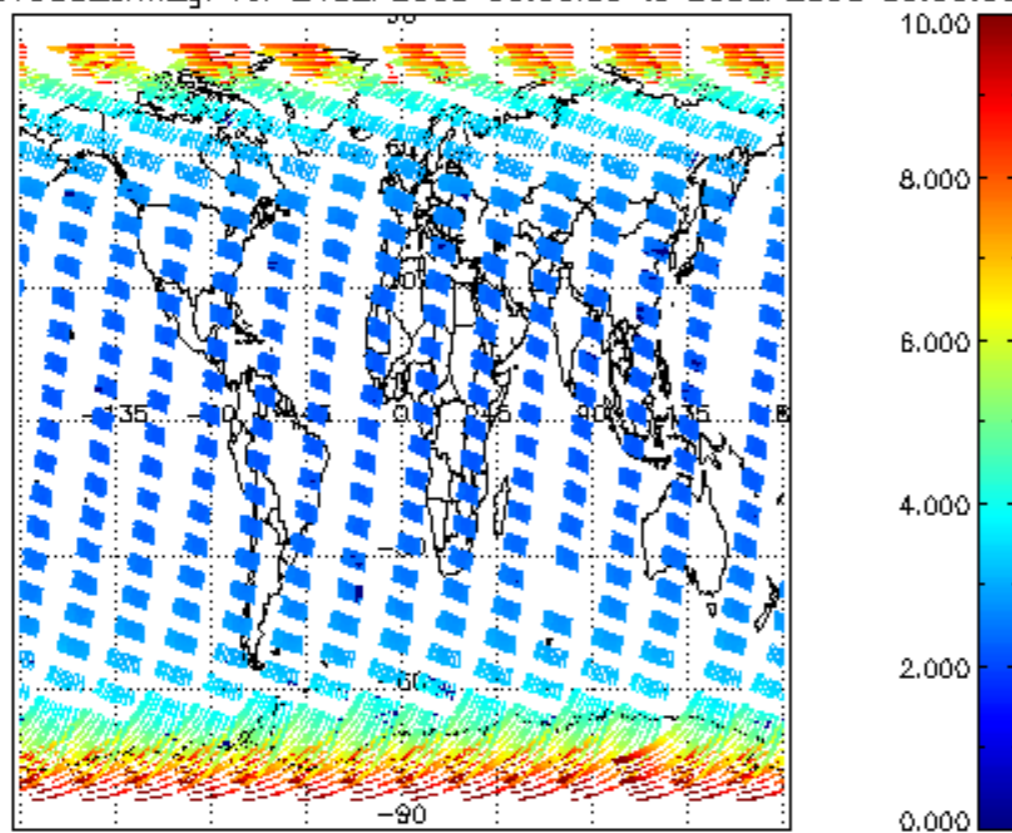
SCIOL2P\_NADUV003\_vcd for 24SEP2008 00:00:00 to 25SEP2008 00:00:00



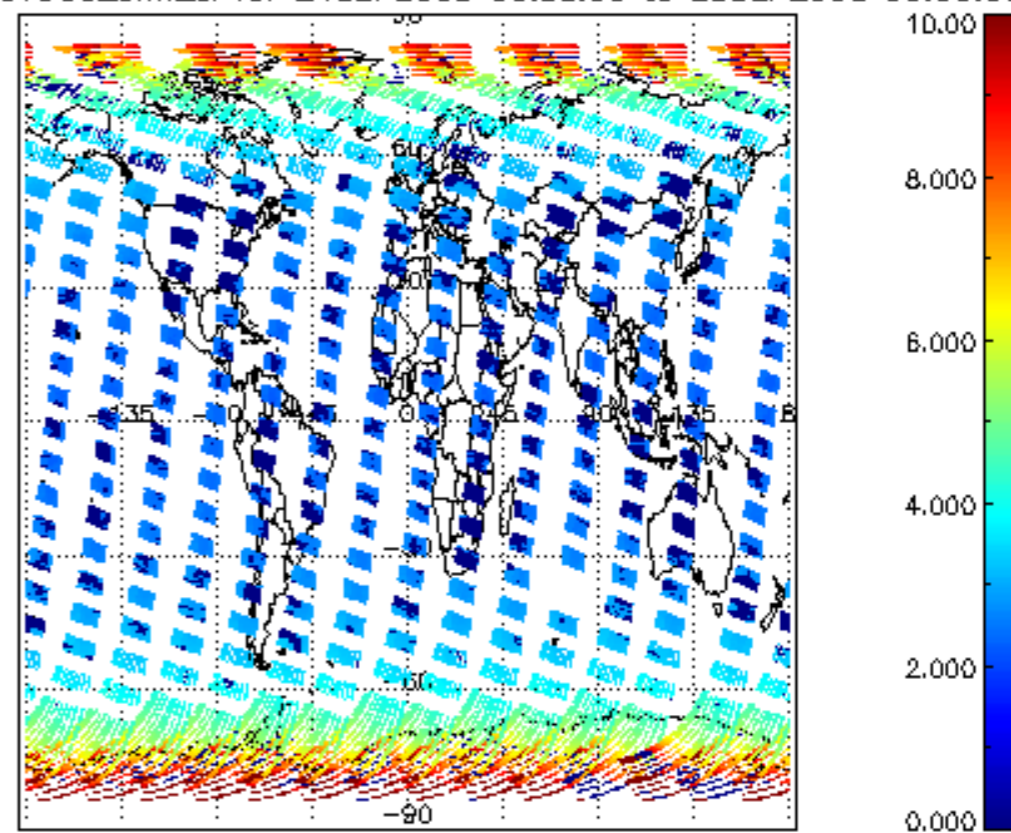
SCIOL2P\_NADUV003\_vcd\_err for 24SEP2008 00:00:00 to 25SEP2008 00:00:00

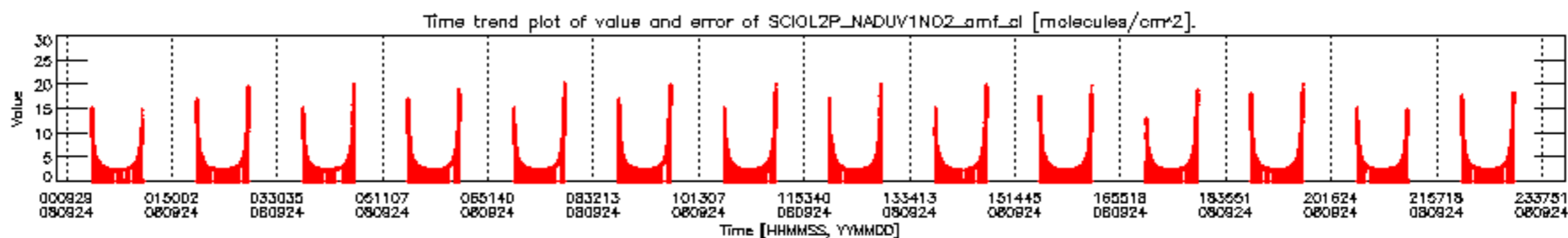
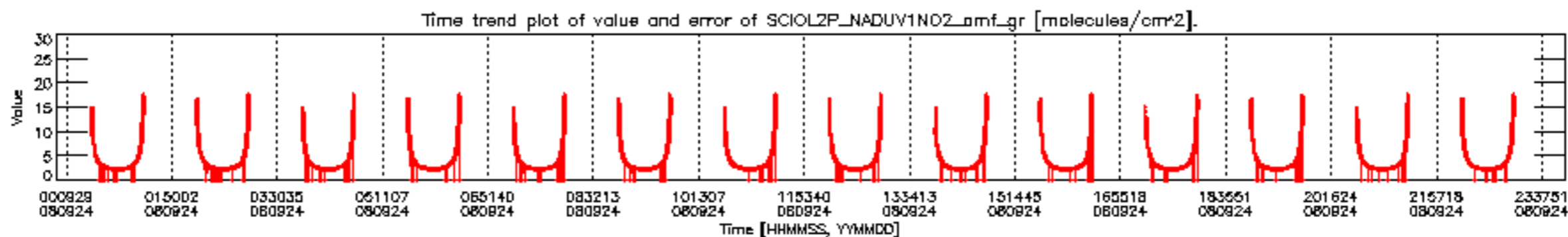
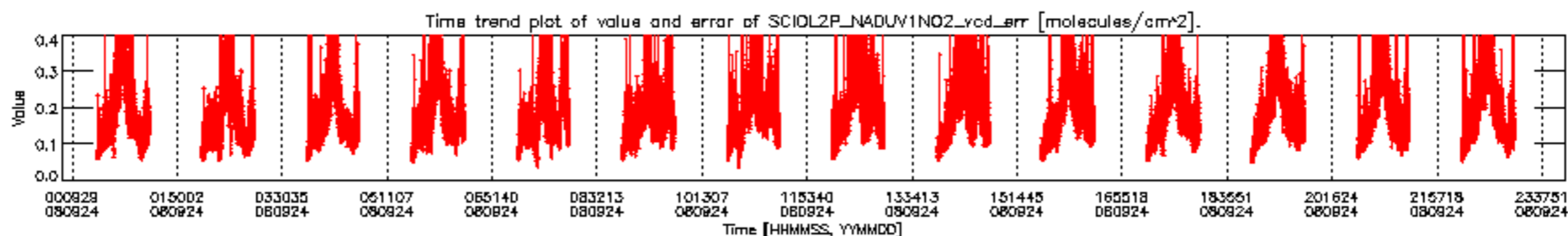
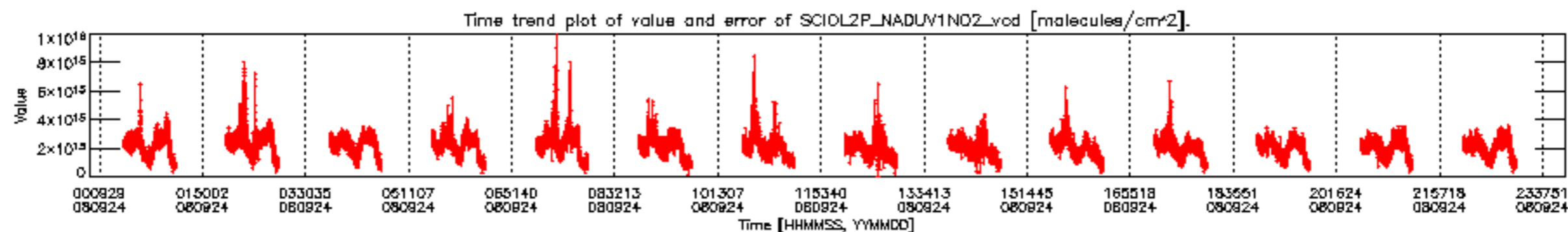


SCIOL2P\_NADUV003\_amf\_gr for 24SEP2008 00:00:00 to 25SEP2008 00:00:00



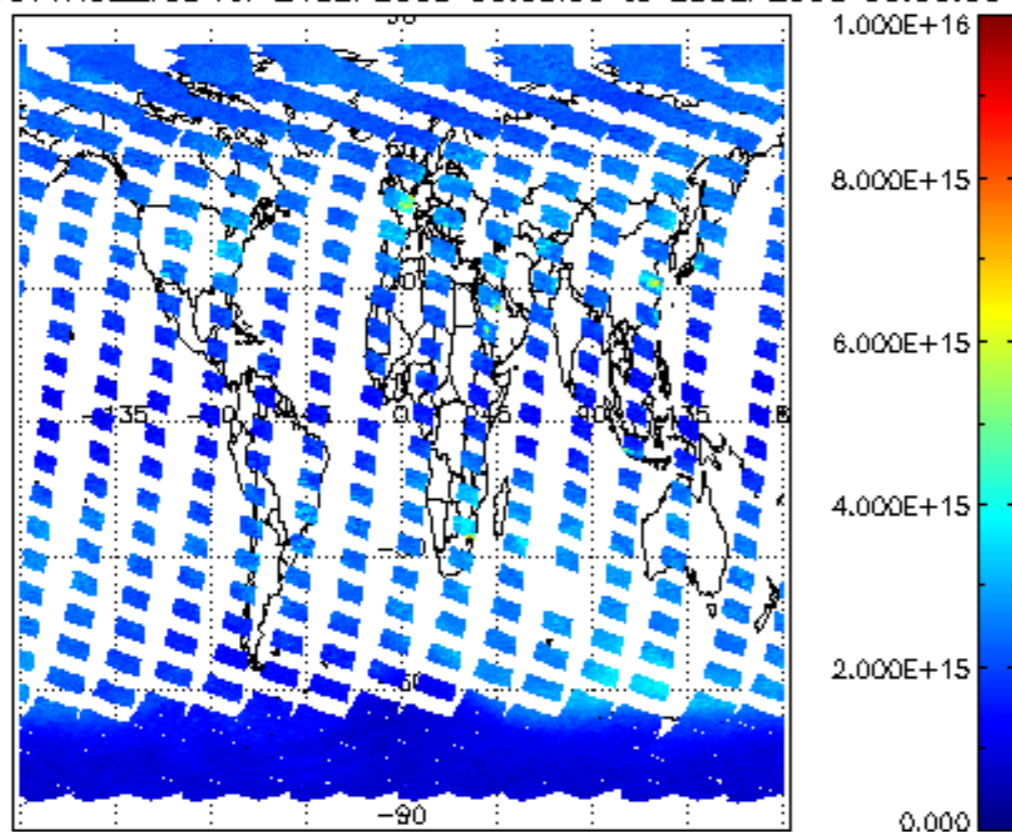
SCIOL2P\_NADUV003\_amf\_cl for 24SEP2008 00:00:00 to 25SEP2008 00:00:00



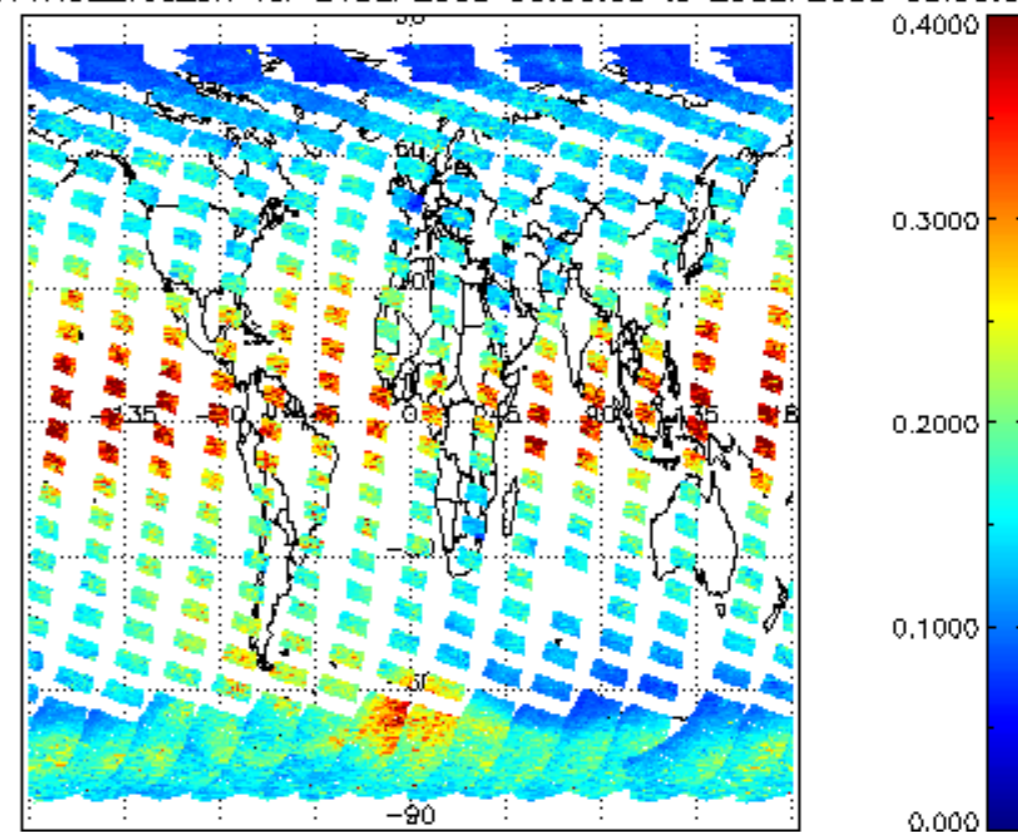




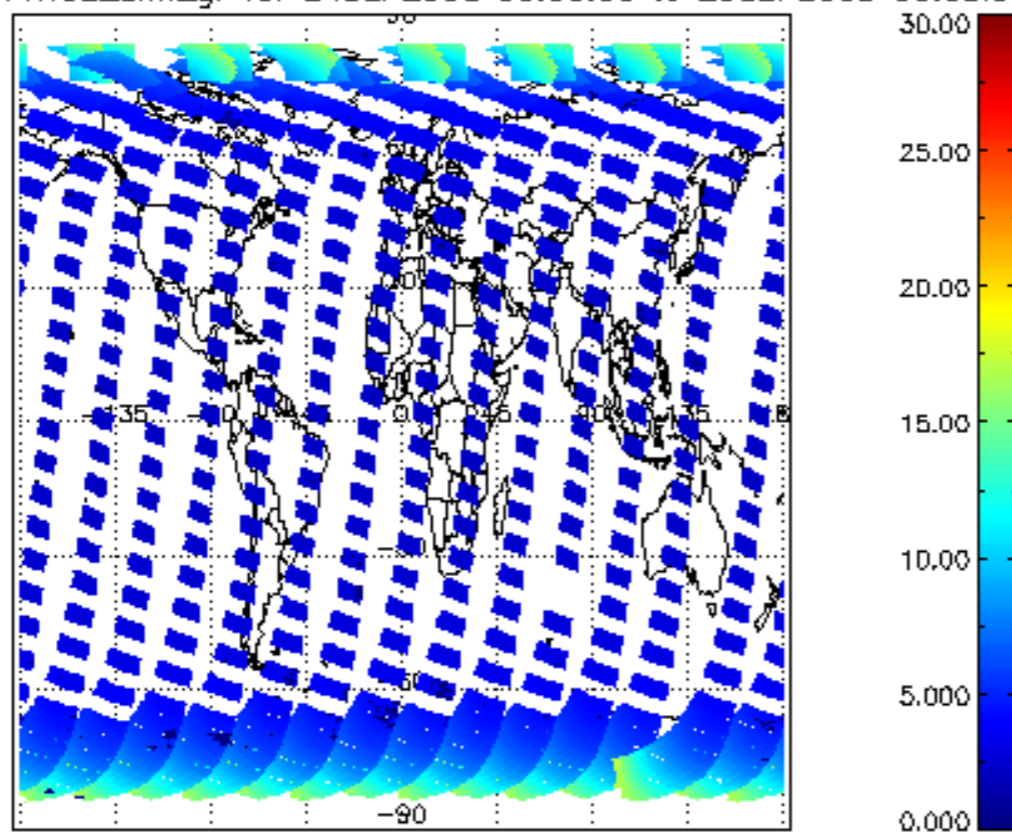
SCIOL2P\_NADUV1NO2\_vcd for 24SEP2008 00:00:00 to 25SEP2008 00:00:00



iCIOL2P\_NADUV1NO2\_vcd\_err for 24SEP2008 00:00:00 to 25SEP2008 00:00:00



iCIOL2P\_NADUV1NO2\_amf\_gr for 24SEP2008 00:00:00 to 25SEP2008 00:00:00



iCIOL2P\_NADUV1NO2\_amf\_cl for 24SEP2008 00:00:00 to 25SEP2008 00:00:00

