

# GOMOS Level 2 Daily Report

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This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM\_NL\_\_2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	18APR2013 10:01:43
Data source version	GOMOS/6.01
Start time of products	21-07-2005 (21JUL2005 00:00:00)
Stop time of products	22-07-2005 (22JUL2005 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	178
Nb of prods with errors	0

## 2. Summary of processed GOM\_NL\_\_2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20050721_000312_000000862039_00131_17720_5292.N1	21-JUL-2005 00:03:12	Dark	86.000	135	Bet Hyi	2.8200	5800.0	172	17720	No
2	GOM_NL__2PRFIN20050721_001900_000000902039_00131_17720_5293.N1	21-JUL-2005 00:19:00	Bright	89.500	38	20Eps Sgr	1.8360	11000.	179	17720	No
3	GOM_NL__2PRFIN20050721_002126_000000882039_00131_17720_5294.N1	21-JUL-2005 00:21:26	Bright	87.500	137	22Lam Sgr	2.8240	4400.0	175	17720	No
4	GOM_NL__2PRFIN20050721_003013_000000862039_00131_17720_5295.N1	21-JUL-2005 00:30:13	Bright	86.000	126	60Bet Oph	2.7700	4250.0	172	17720	No
5	GOM_NL__2PRFIN20050721_003231_000000862039_00131_17720_5296.N1	21-JUL-2005 00:32:31	Bright	85.500	59	55Alp Oph	2.0800	8900.0	171	17720	No
6	GOM_NL__2PRFIN20050721_003837_000000882039_00131_17720_5297.N1	21-JUL-2005 00:38:37	Bright	87.500	133	40Zet Her	2.8070	6000.0	175	17720	No
7	GOM_NL__2PRFIN20050721_004328_000000822039_00131_17720_5298.N1	21-JUL-2005 00:43:28	Bright	82.000	130	23Bet Dra	2.7990	5800.0	164	17720	No
8	GOM_NL__2PRFIN20050721_004638_000000862039_00131_17720_5299.N1	21-JUL-2005 00:46:38	Bright	86.000	119	14Eta Dra	2.7270	4700.0	172	17720	No
9	GOM_NL__2PRFIN20050721_005051_000000832039_00131_17720_5300.N1	21-JUL-2005 00:50:51	Bright	82.500	60	7Bet UMi	2.0810	3950.0	165	17720	No
10	GOM_NL__2PRFIN20050721_011750_000000902039_00131_17720_5301.N1	21-JUL-2005 01:17:50	Dark	89.500	27	24Gam Ori	1.6360	26000.	179	17720	No
11	GOM_NL__2PRFIN20050721_011956_000000882039_00131_17720_5302.N1	21-JUL-2005 01:19:56	Dark	88.000	33	50Zet Ori	1.7660	30000.	176	17720	No
12	GOM_NL__2PRFIN20050721_012201_000000942039_00131_17720_5303.N1	21-JUL-2005 01:22:01	Dark	93.500	7	19Bet Ori	0.10000	14000.	187	17720	No
13	GOM_NL__2PRFIN20050721_012423_000000862039_00131_17720_5304.N1	21-JUL-2005 01:24:23	Dark	86.000	101	11Alp Lep	2.5820	7000.0	172	17720	No
14	GOM_NL__2PRFIN20050721_014348_000000872039_00132_17721_5305.N1	21-JUL-2005 01:43:48	Dark	87.000	135	Bet Hyi	2.8200	5800.0	174	17721	No
15	GOM_NL__2PRFIN20050721_015936_000000902039_00132_17721_5306.N1	21-JUL-2005 01:59:36	Bright	89.500	38	20Eps Sgr	1.8360	11000.	179	17721	No
16	GOM_NL__2PRFIN20050721_020203_000000872039_00132_17721_5307.N1	21-JUL-2005 02:02:03	Bright	87.000	137	22Lam Sgr	2.8240	4400.0	174	17721	No
17	GOM_NL__2PRFIN20050721_021049_000000872039_00132_17721_5308.N1	21-JUL-2005 02:10:49	Bright	87.000	126	60Bet Oph	2.7700	4250.0	174	17721	No
18	GOM_NL__2PRFIN20050721_021307_000000862039_00132_17721_5309.N1	21-JUL-2005 02:13:07	Bright	85.500	59	55Alp Oph	2.0800	8900.0	171	17721	No
19	GOM_NL__2PRFIN20050721_022404_000000862039_00132_17721_5310.N1	21-JUL-2005 02:24:04	Bright	85.500	130	23Bet Dra	2.7990	5800.0	171	17721	No
20	GOM_NL__2PRFIN20050721_022714_000000822039_00132_17721_5311.N1	21-JUL-2005 02:27:14	Bright	81.500	119	14Eta Dra	2.7270	4700.0	163	17721	No
21	GOM_NL__2PRFIN20050721_023128_000000842039_00132_17721_5312.N1	21-JUL-2005 02:31:28	Bright	83.500	60	7Bet UMi	2.0810	3950.0	167	17721	No
22	GOM_NL__2PRFIN20050721_025826_000000902039_00132_17721_5313.N1	21-JUL-2005 02:58:26	Dark	90.000	27	24Gam Ori	1.6360	26000.	180	17721	No
23	GOM_NL__2PRFIN20050721_030032_000000892039_00132_17721_5314.N1	21-JUL-2005 03:00:32	Dark	88.500	33	50Zet Ori	1.7660	30000.	177	17721	No
24	GOM_NL__2PRFIN20050721_030237_000000892039_00132_17721_5315.N1	21-JUL-2005 03:02:37	Dark	89.000	7	19Bet Ori	0.10000	14000.	178	17721	No
25	GOM_NL__2PRFIN20050721_030500_000000842039_00132_17721_5316.N1	21-JUL-2005 03:05:00	Dark	83.500	101	11Alp Lep	2.5820	7000.0	167	17721	No
26	GOM_NL__2PRFIN20050721_032425_000000852039_00133_17722_5306.N1	21-JUL-2005 03:24:25	Dark	85.000	135	Bet Hyi	2.8200	5800.0	170	17722	No
27	GOM_NL__2PRFIN20050721_034013_000000922039_00133_17722_5307.N1	21-JUL-2005 03:40:13	Bright	91.500	38	20Eps Sgr	1.8360	11000.	183	17722	No
28	GOM_NL__2PRFIN20050721_034239_000000892039_00133_17722_5308.N1	21-JUL-2005 03:42:39	Bright	89.000	137	22Lam Sgr	2.8240	4400.0	178	17722	No
29	GOM_NL__2PRFIN20050721_035125_000000852039_00133_17722_5309.N1	21-JUL-2005 03:51:25	Bright	85.000	126	60Bet Oph	2.7700	4250.0	170	17722	No
30	GOM_NL__2PRFIN20050721_035344_000000852039_00133_17722_5310.N1	21-JUL-2005 03:53:44	Bright	85.000	59	55Alp Oph	2.0800	8900.0	170	17722	No
31	GOM_NL__2PRFIN20050721_035950_000000852039_00133_17722_5311.N1	21-JUL-2005 03:59:50	Bright	85.000	133	40Zet Her	2.8070	6000.0	170	17722	No
32	GOM_NL__2PRFIN20050721_040440_000000842039_00133_17722_5312.N1	21-JUL-2005 04:04:40	Bright	84.000	130	23Bet Dra	2.7990	5800.0	168	17722	No
33	GOM_NL__2PRFIN20050721_040750_000000822039_00133_17722_5313.N1	21-JUL-2005 04:07:50	Bright	82.000	119	14Eta Dra	2.7270	4700.0	164	17722	No
34	GOM_NL__2PRFIN20050721_041204_000000832039_00133_17722_5314.N1	21-JUL-2005 04:12:04	Bright	82.500	60	7Bet UMi	2.0810	3950.0	165	17722	No
35	GOM_NL__2PRFIN20050721_043902_000000912039_00133_17722_5315.N1	21-JUL-2005 04:39:02	Dark	90.500	27	24Gam Ori	1.6360	26000.	181	17722	No
36	GOM_NL__2PRFIN20050721_044108_000000852039_00133_17722_5316.N1	21-JUL-2005 04:41:08	Dark	85.000	33	50Zet Ori	1.7660	30000.	170	17722	No
37	GOM_NL__2PRFIN20050721_044314_000000852039_00133_17722_5317.N1	21-JUL-2005 04:43:14	Dark	84.500	7	19Bet Ori	0.10000	14000.	169	17722	No
38	GOM_NL__2PRFIN20050721_044536_000000842039_00133_17722_5318.N1	21-JUL-2005 04:45:36	Dark	84.000	101	11Alp Lep	2.5820	7000.0	168	17722	No
39	GOM_NL__2PRFIN20050721_050501_000000852039_00134_17723_5307.N1	21-JUL-2005 05:05:01	Dark	84.500	135	Bet Hyi	2.8200	5800.0	169	17723	No
40	GOM_NL__2PRFIN20050721_052049_000000922039_00134_17723_5308.N1	21-JUL-2005 05:20:49	Bright	92.000	38	20Eps Sgr	1.8360	11000.	184	17723	No
41	GOM_NL__2PRFIN20050721_052315_000000882039_00134_17723_5309.N1	21-JUL-2005 05:23:15	Bright	87.500	137	22Lam Sgr	2.8240	4400.0	175	17723	No
42	GOM_NL__2PRFIN20050721_053201_000000872039_00134_17723_5310.N1	21-JUL-2005 05:32:01	Bright	86.500	126	60Bet Oph	2.7700	4250.0	173	17723	No



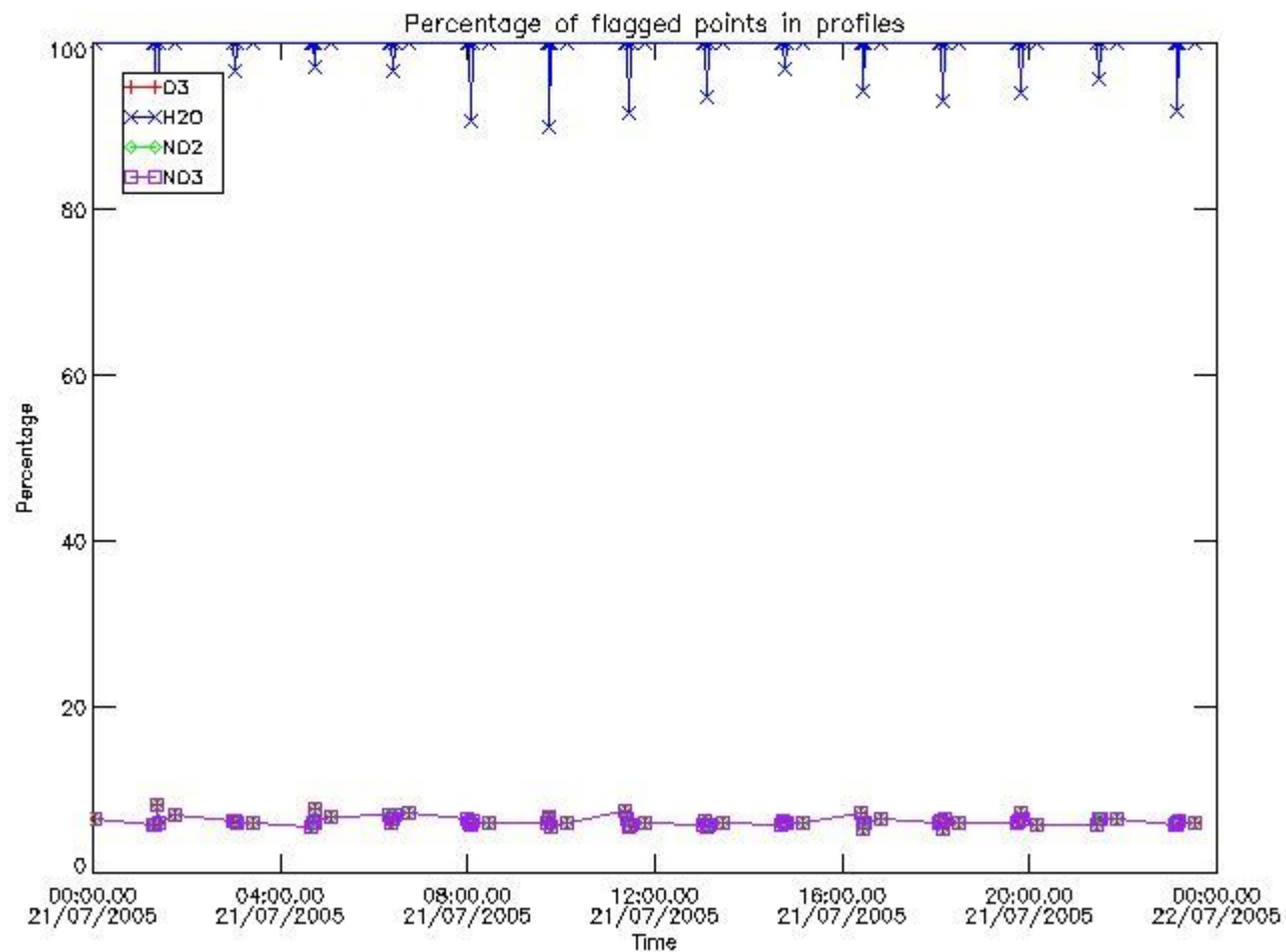


161	GOM_NL__2PRFIN20050721_212916_000000932039_00143_17732_5346.N1	21-JUL-2005 21:29:16	Dark	92.500	7	19Bet Ori	0.10000	14000.	185	17732	No
162	GOM_NL__2PRFIN20050721_213137_000000872039_00143_17732_5347.N1	21-JUL-2005 21:31:37	Dark	86.500	101	11Alp Lep	2.5820	7000.0	173	17732	No
163	GOM_NL__2PRFIN20050721_215102_000000862039_00144_17733_5338.N1	21-JUL-2005 21:51:02	Dark	86.000	135	Bet Hyi	2.8200	5800.0	172	17733	No
164	GOM_NL__2PRFIN20050721_220649_000000892039_00144_17733_5339.N1	21-JUL-2005 22:06:49	Bright	89.000	38	20Eps Sgr	1.8360	11000.	178	17733	No
165	GOM_NL__2PRFIN20050721_220916_000000872039_00144_17733_5340.N1	21-JUL-2005 22:09:16	Bright	87.000	137	22Lam Sgr	2.8240	4400.0	174	17733	No
166	GOM_NL__2PRFIN20050721_221802_000000862039_00144_17733_5341.N1	21-JUL-2005 22:18:02	Bright	85.500	126	60Bet Oph	2.7700	4250.0	171	17733	No
167	GOM_NL__2PRFIN20050721_222021_000000872039_00144_17733_5342.N1	21-JUL-2005 22:20:21	Bright	86.500	59	55Alp Oph	2.0800	8900.0	173	17733	No
168	GOM_NL__2PRFIN20050721_223117_000000822039_00144_17733_5343.N1	21-JUL-2005 22:31:17	Bright	82.000	130	23Bet Dra	2.7990	5800.0	164	17733	No
169	GOM_NL__2PRFIN20050721_223428_000000932039_00144_17733_5344.N1	21-JUL-2005 22:34:28	Bright	92.500	119	14Eta Dra	2.7270	4700.0	185	17733	No
170	GOM_NL__2PRFIN20050721_223841_000000872039_00144_17733_5345.N1	21-JUL-2005 22:38:41	Bright	87.000	60	7Bet UMi	2.0810	3950.0	174	17733	No
171	GOM_NL__2PRFIN20050721_230540_000000892039_00144_17733_5346.N1	21-JUL-2005 23:05:40	Dark	88.500	27	24Gam Ori	1.6360	26000.	177	17733	No
172	GOM_NL__2PRFIN20050721_230745_000000862039_00144_17733_5347.N1	21-JUL-2005 23:07:45	Dark	85.500	33	50Zet Ori	1.7660	30000.	171	17733	No
173	GOM_NL__2PRFIN20050721_230952_000000992039_00144_17733_5348.N1	21-JUL-2005 23:09:52	Dark	99.000	7	19Bet Ori	0.10000	14000.	198	17733	No
174	GOM_NL__2PRFIN20050721_231213_000000882039_00144_17733_5349.N1	21-JUL-2005 23:12:13	Dark	88.000	101	11Alp Lep	2.5820	7000.0	176	17733	No
175	GOM_NL__2PRFIN20050721_233139_000000872039_00145_17734_5197.N1	21-JUL-2005 23:31:39	Dark	86.500	135	Bet Hyi	2.8200	5800.0	173	17734	No
176	GOM_NL__2PRFIN20050721_234726_000000912039_00145_17734_5198.N1	21-JUL-2005 23:47:26	Bright	91.000	38	20Eps Sgr	1.8360	11000.	182	17734	No
177	GOM_NL__2PRFIN20050721_234952_000000902039_00145_17734_5199.N1	21-JUL-2005 23:49:52	Bright	89.500	137	22Lam Sgr	2.8240	4400.0	179	17734	No
178	GOM_NL__2PRFIN20050721_235838_000000872039_00145_17734_5200.N1	21-JUL-2005 23:58:38	Bright	87.000	126	60Bet Oph	2.7700	4250.0	174	17734	No

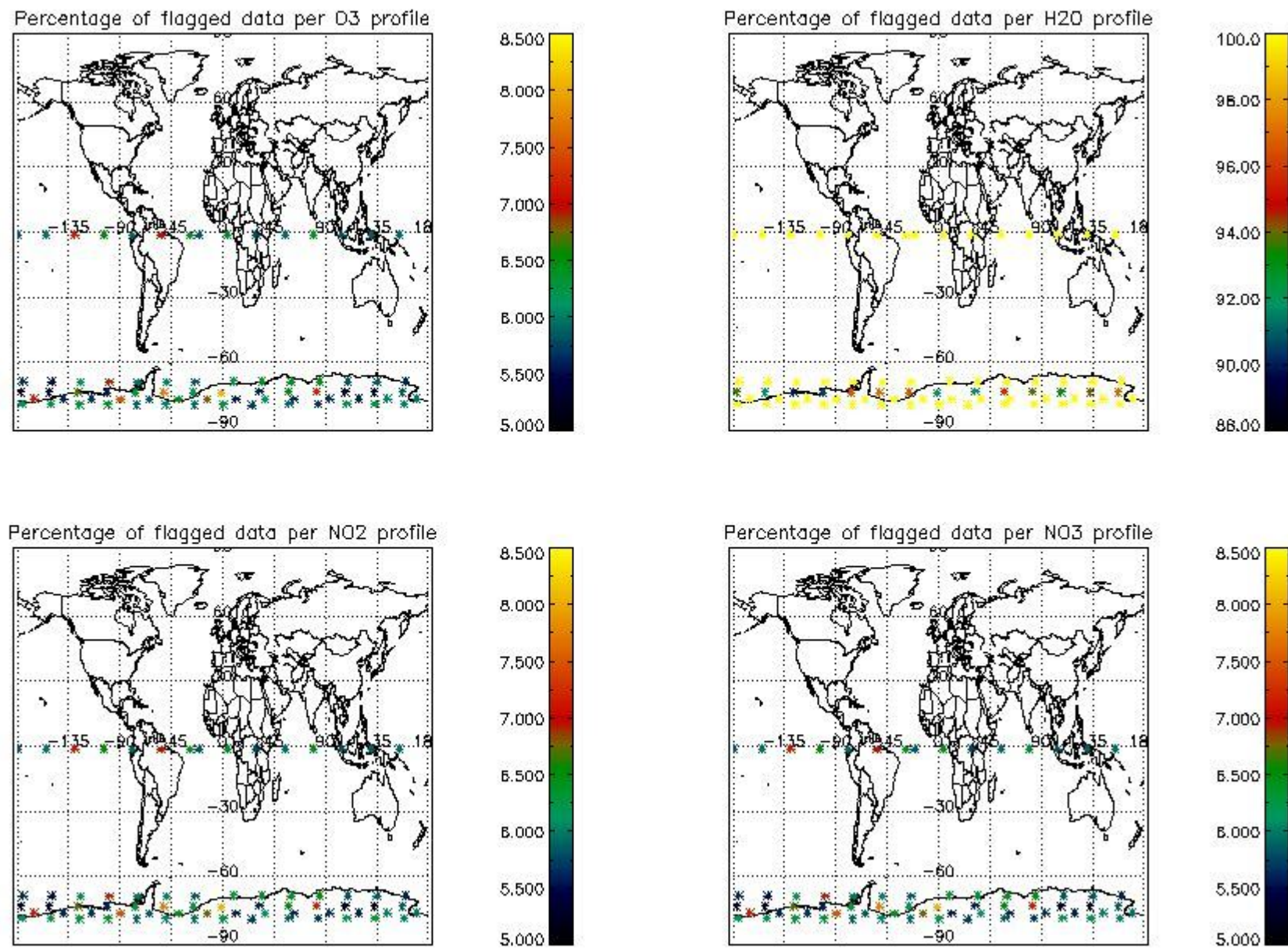
### 3. Quality information per product

In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

#### 3.1 Plot quality information per product (time dependant)



### 3.2 Plot quality information per product (world map)

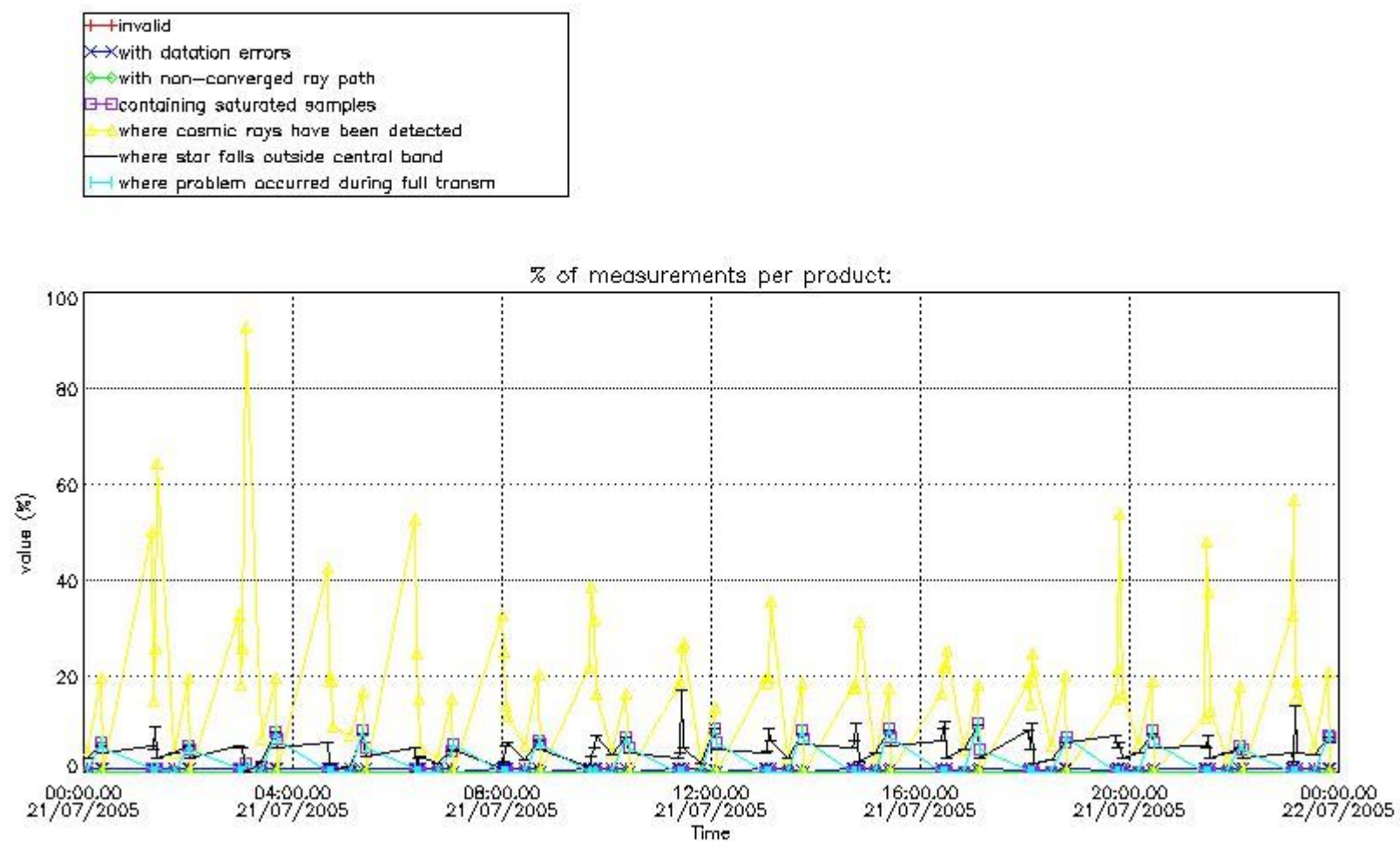


### 4. Level 1 quality information per product

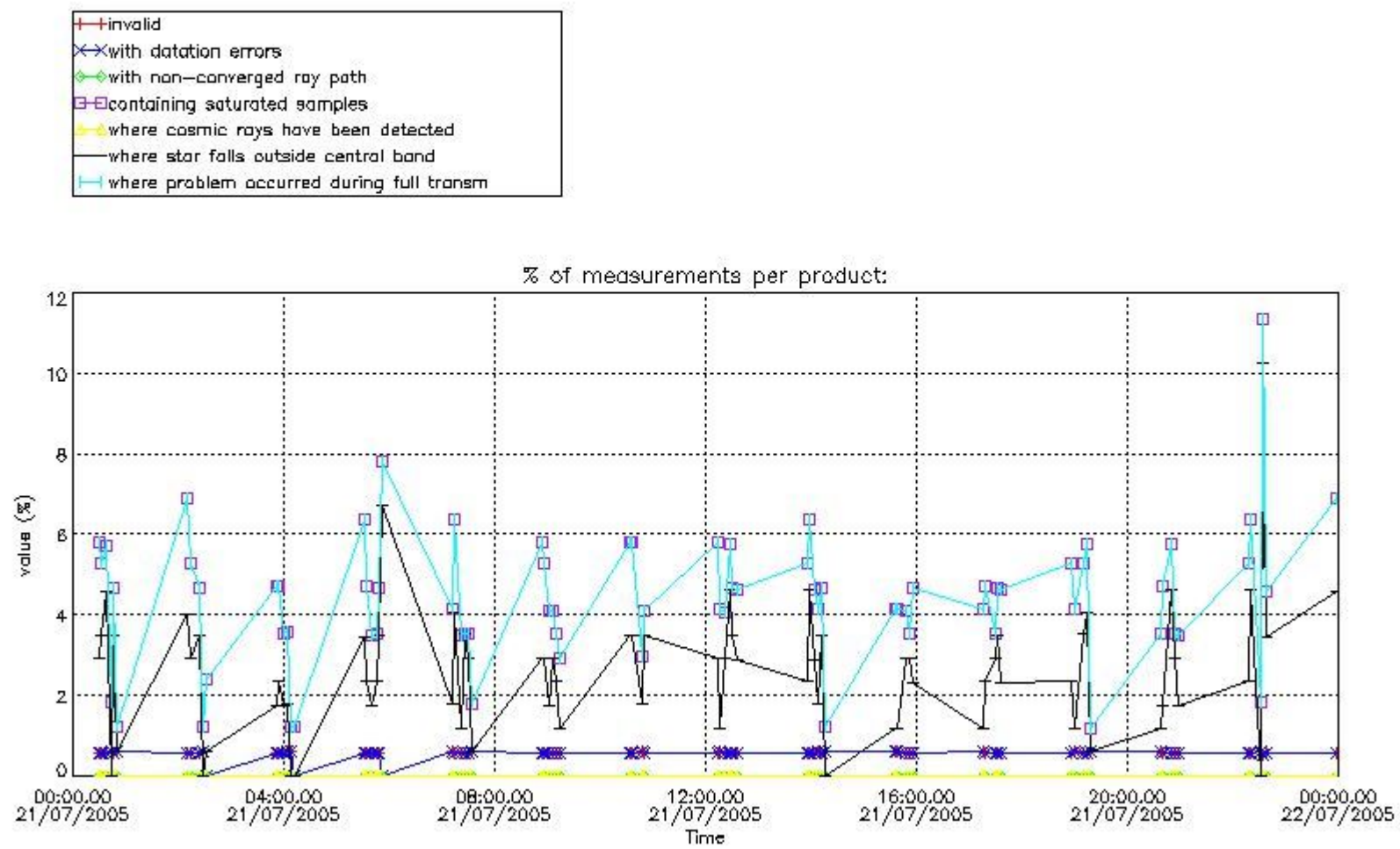
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

#### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

##### 4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes



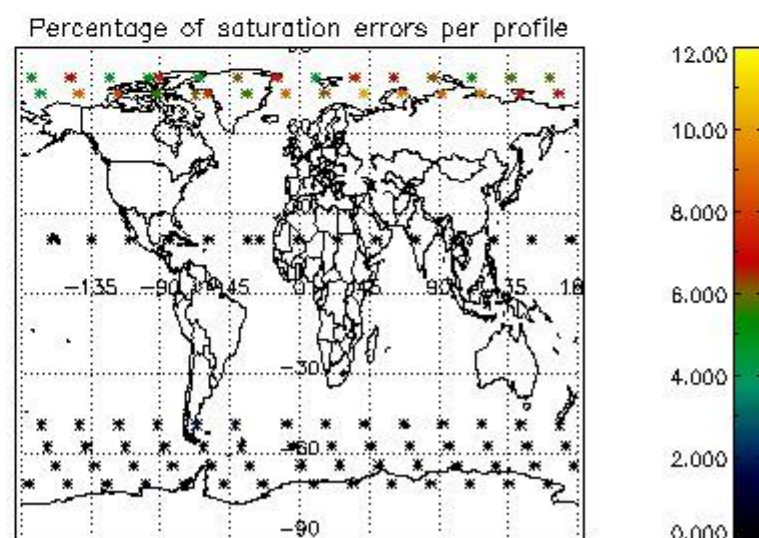
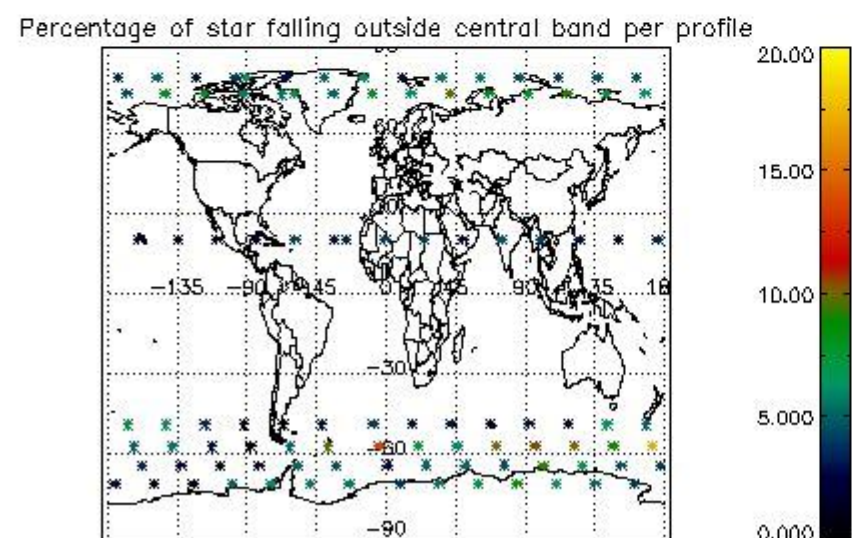
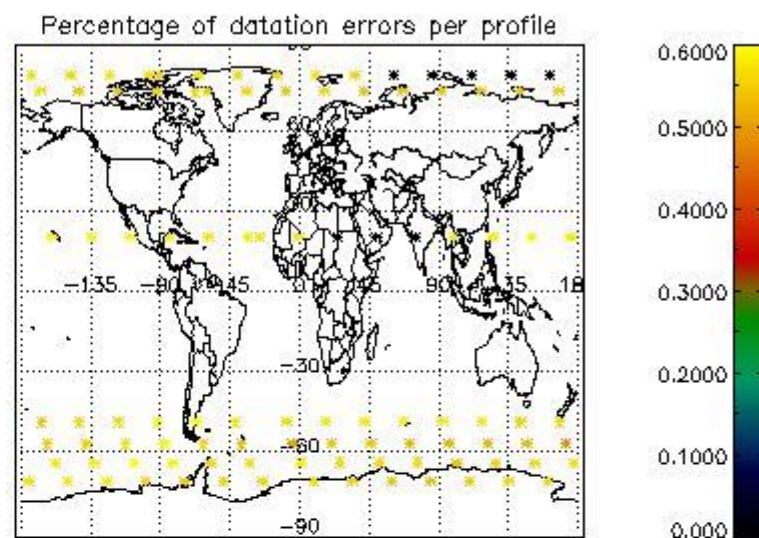
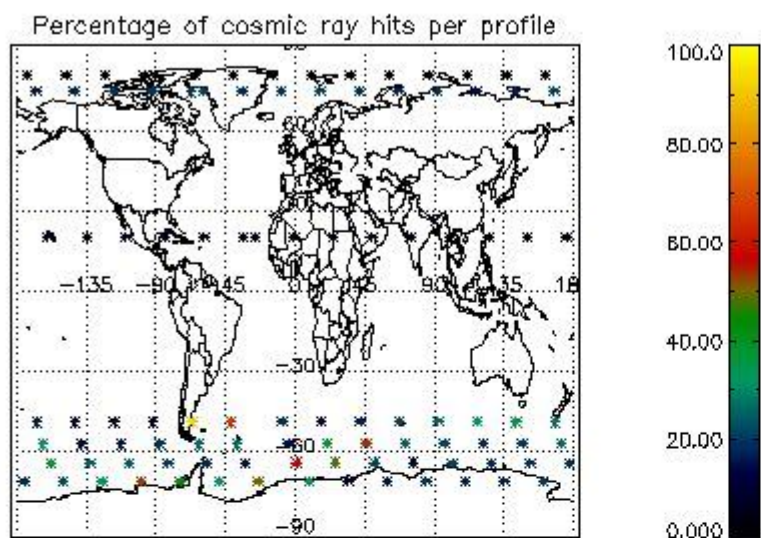
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



4.2 Plot quality information per product coming from level 1b processing (world map)

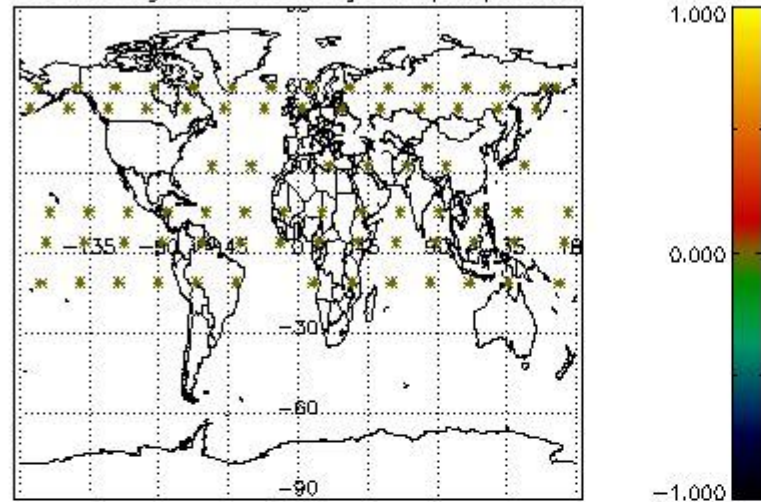
4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes



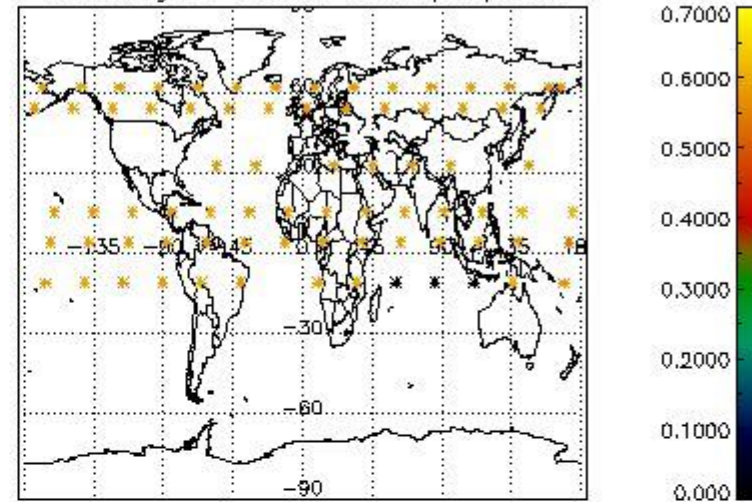


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

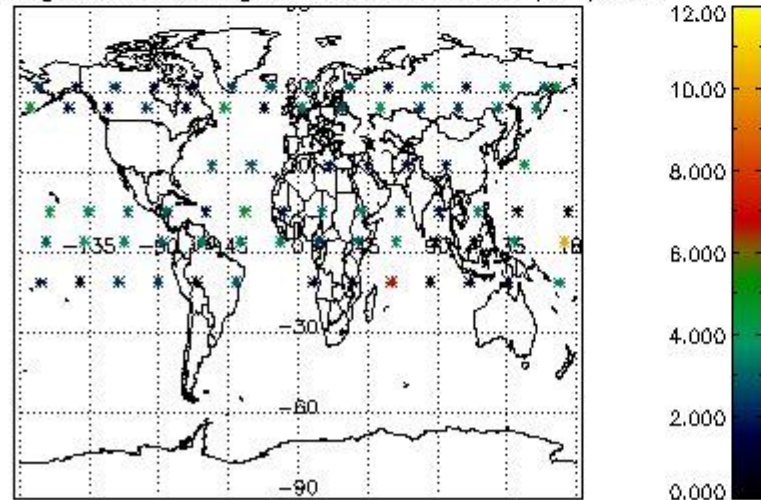
Percentage of cosmic ray hits per profile



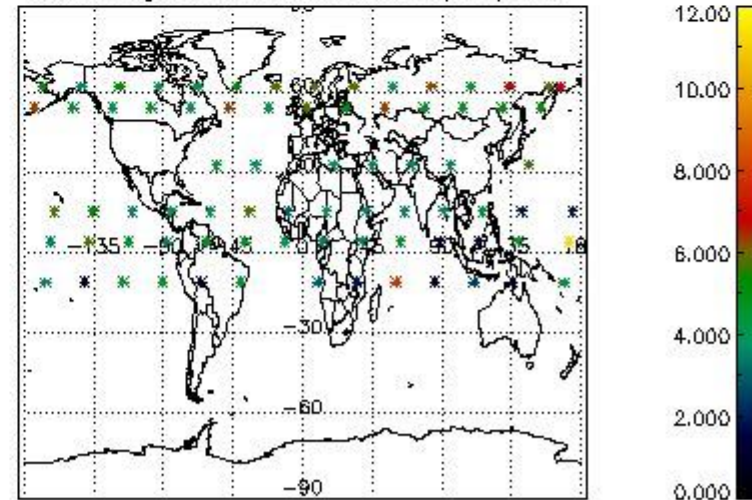
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/o3\_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM\_NL\_\_2P/NL\_SUMMARY\_QUALITY/obs\_ill\_cond=0
- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

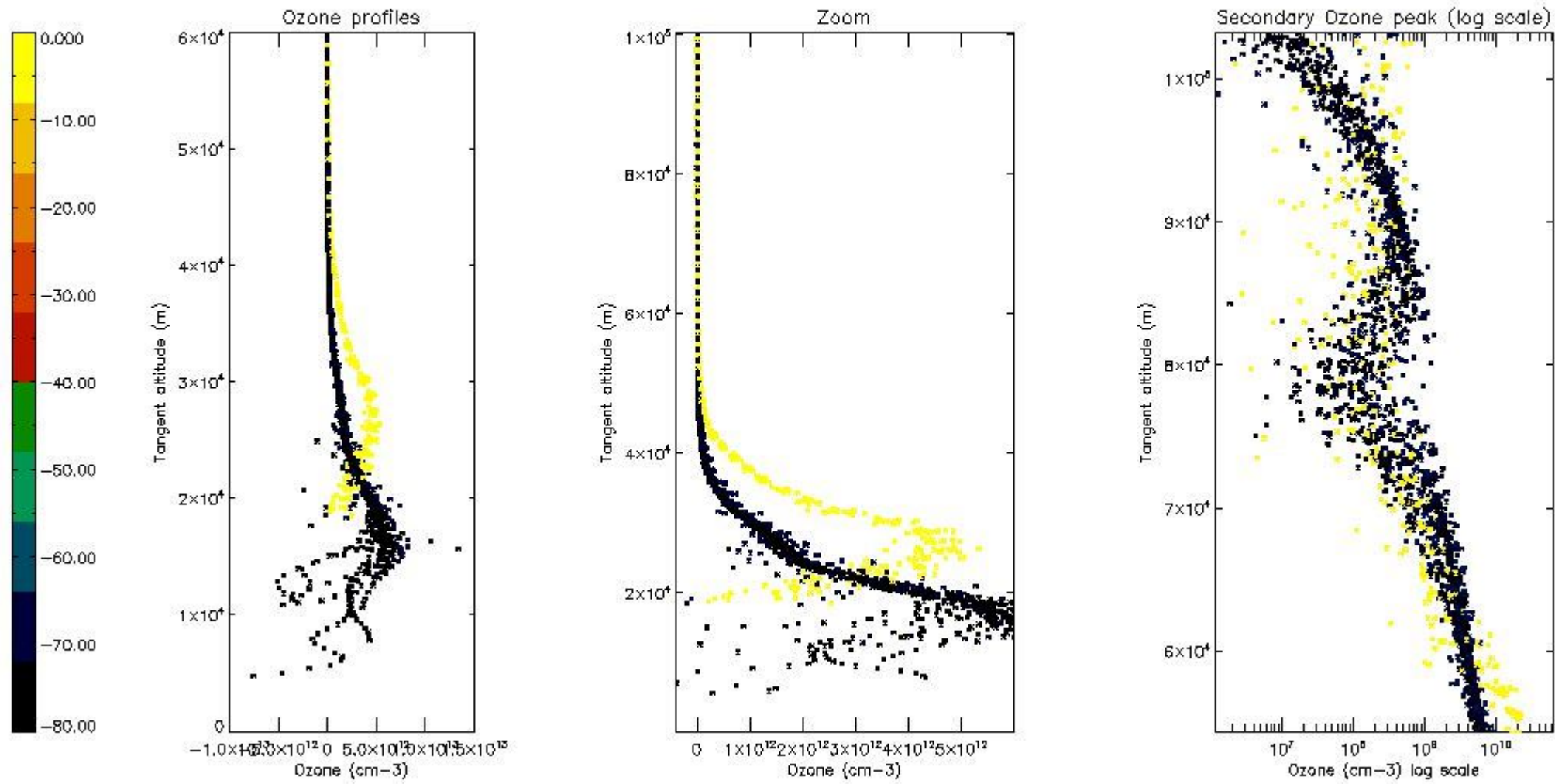
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	41
STD < 20	10

STD < 10	8
STD < 5	6

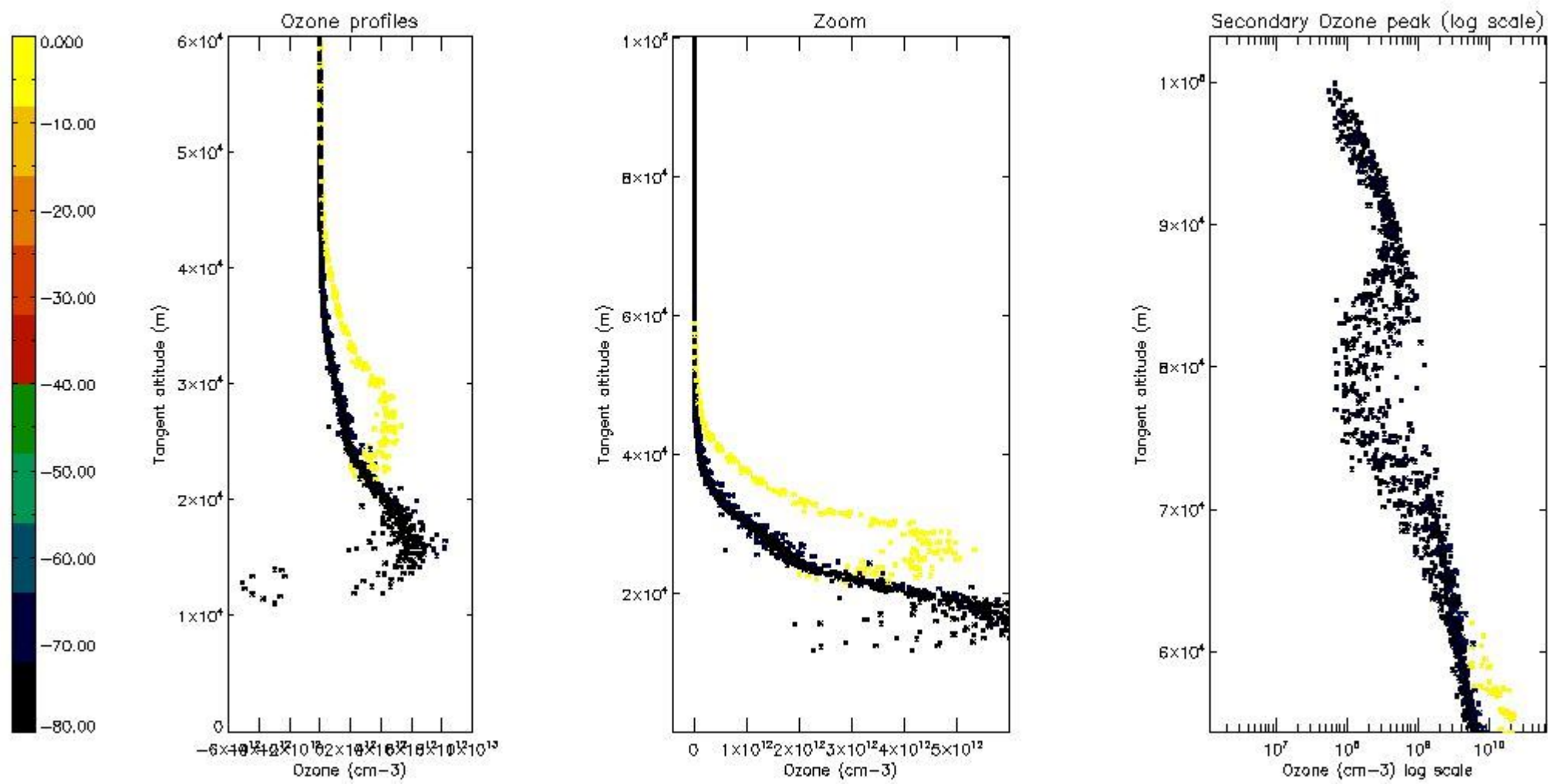
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



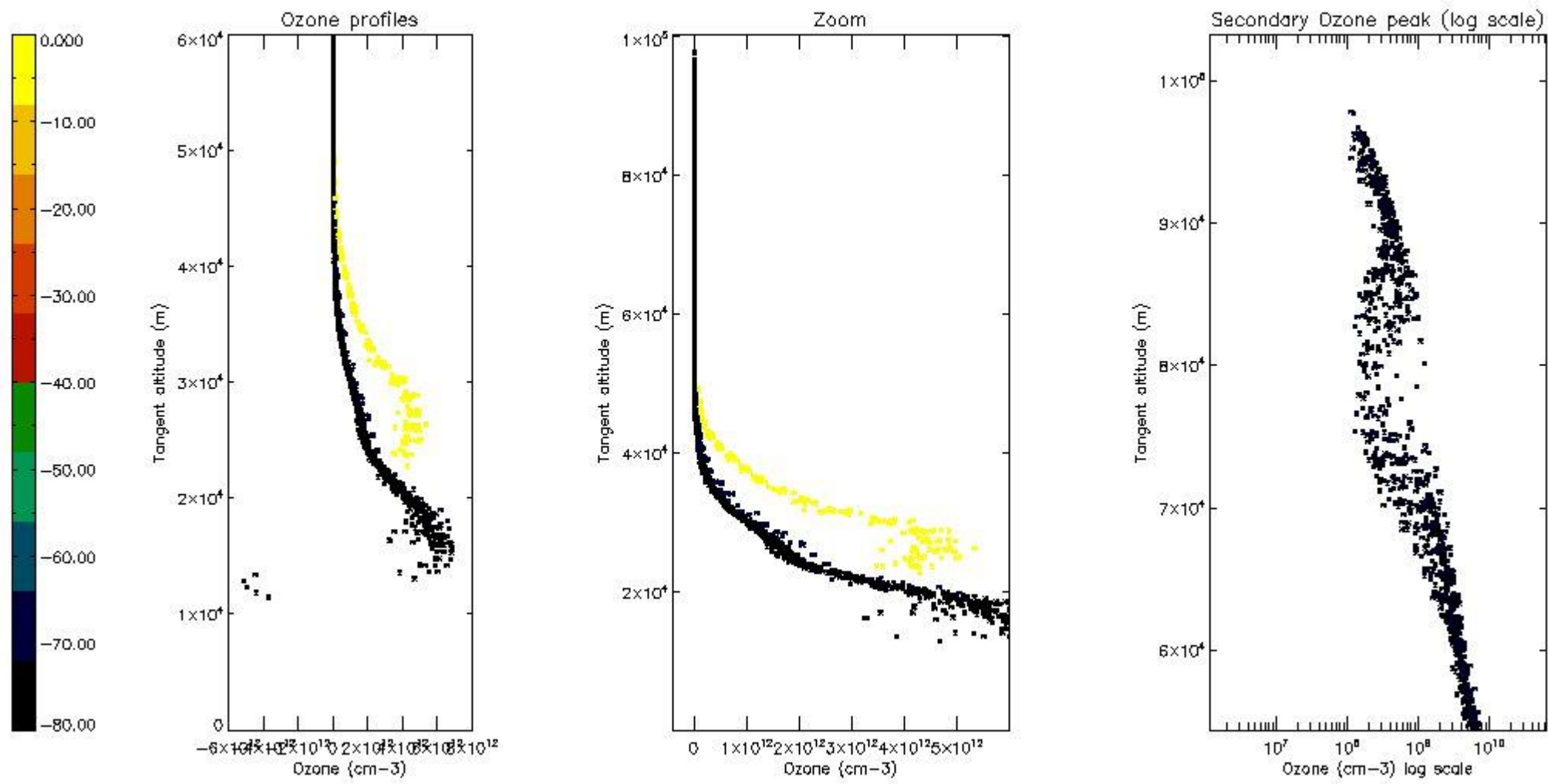
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



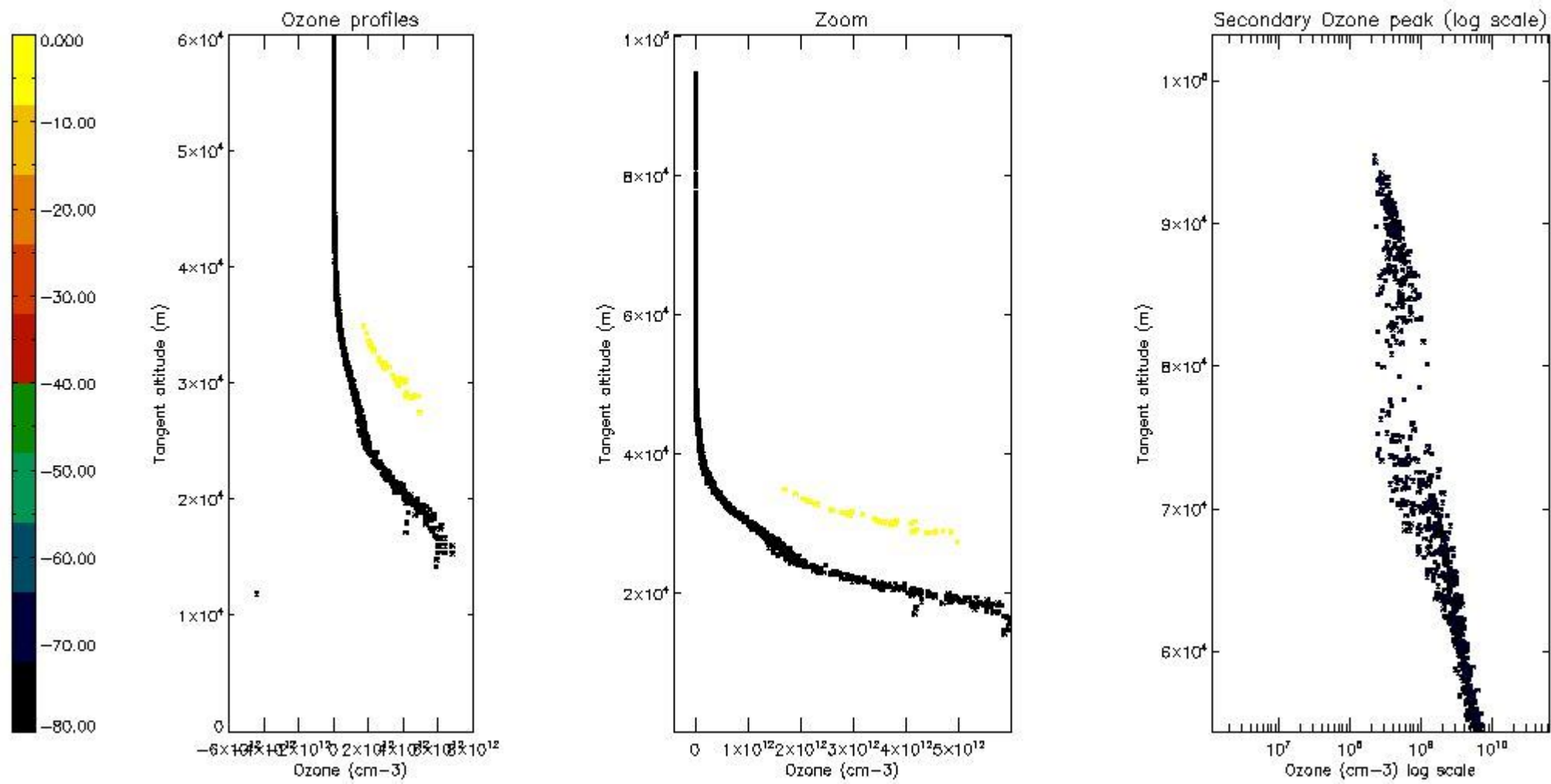
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



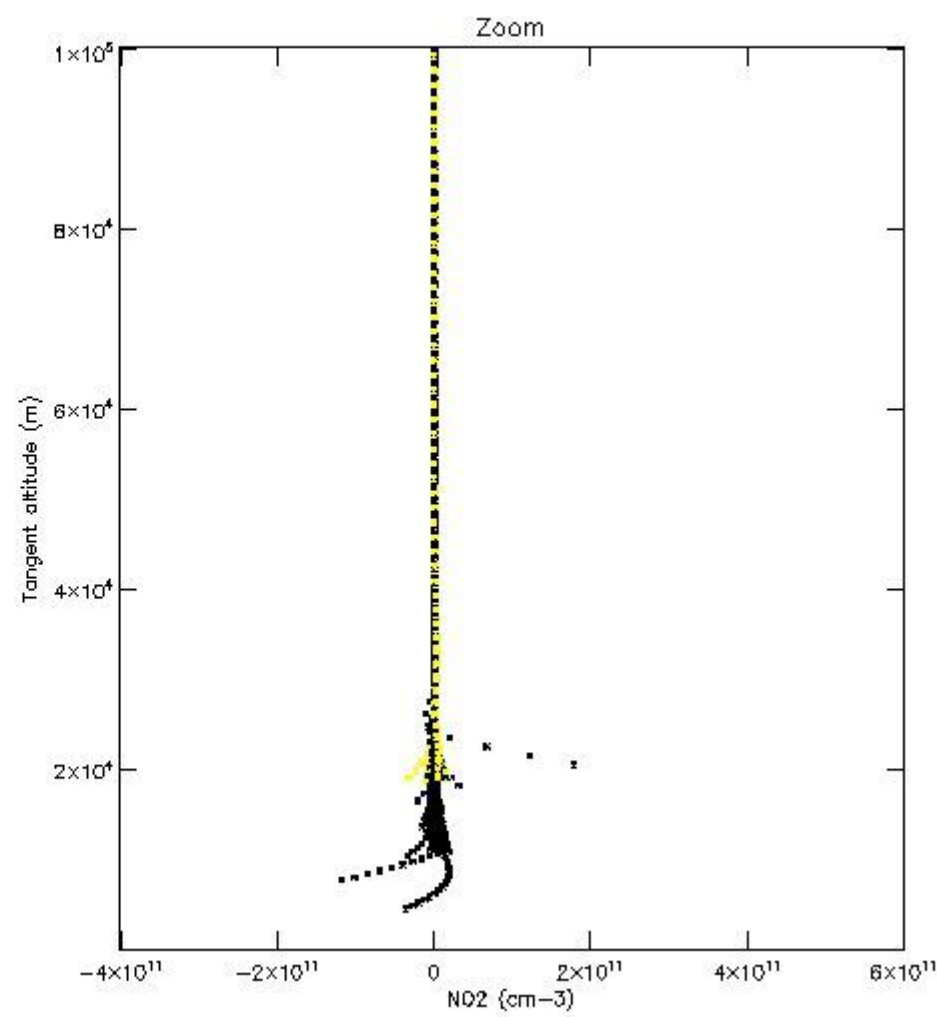
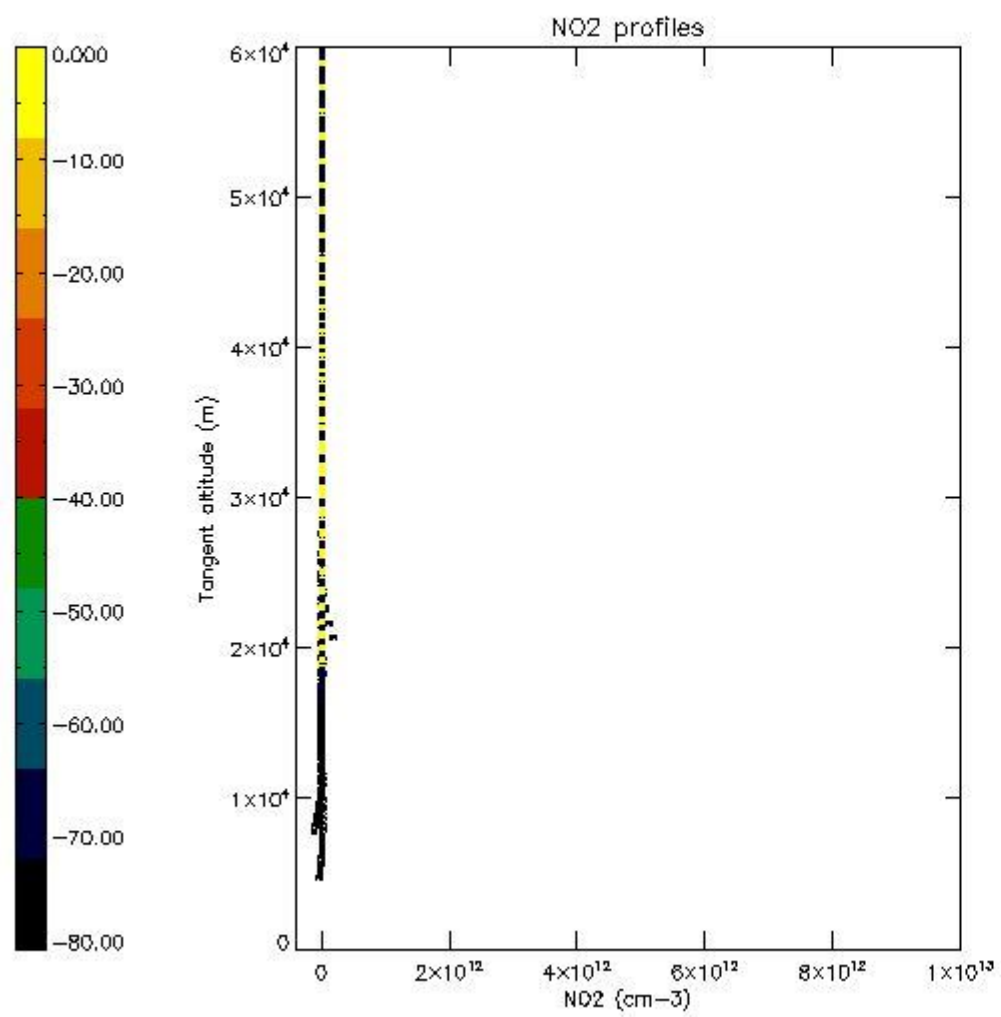
*5.5 Plot ozone profiles where  $\text{STD} < 5\%$  (dark without errors)*

The colorbar represents the latitude.



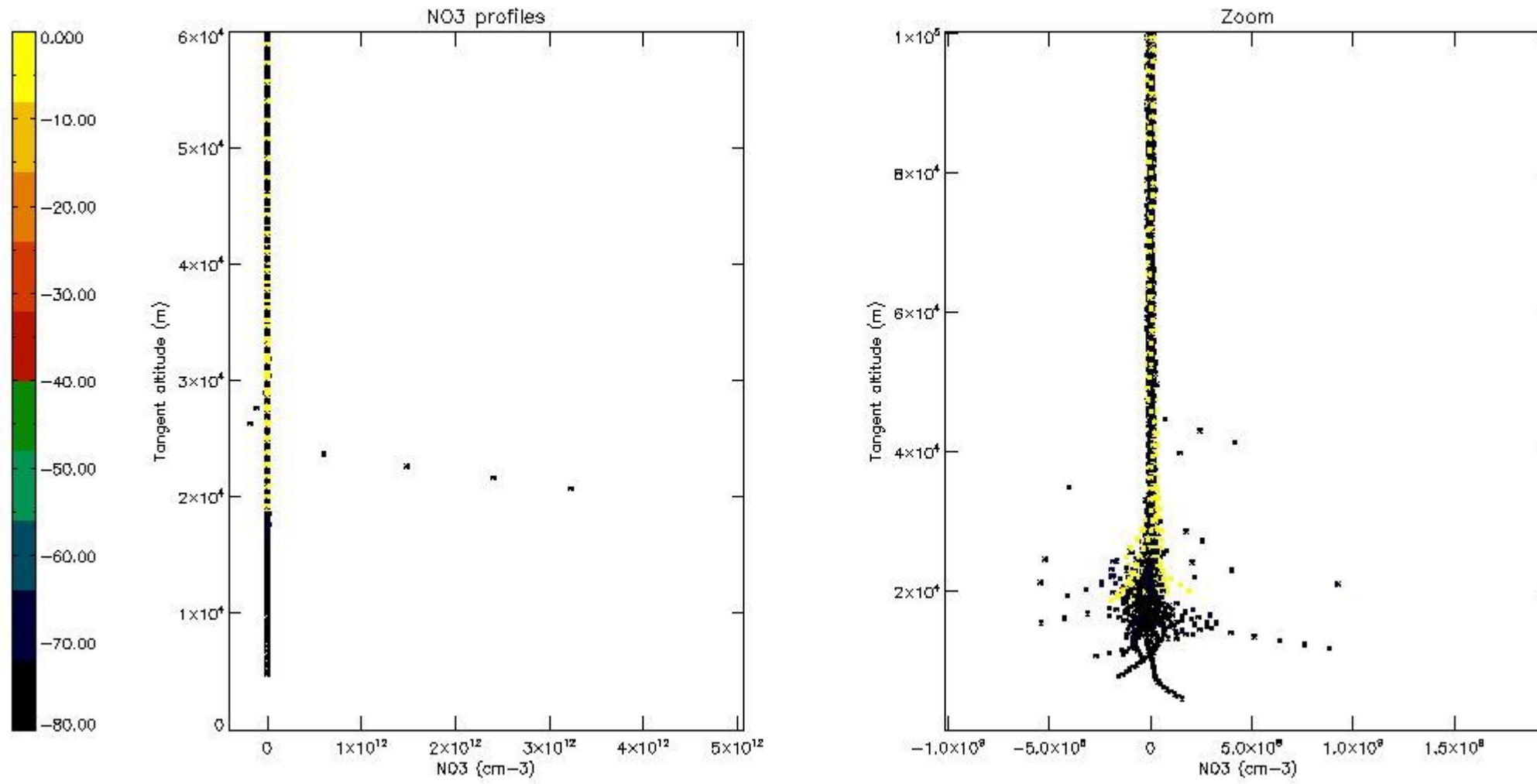
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



## 6. Auxiliary Data Files used for the production reported in section 2

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	21-JUL-2005 00:03:12
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	21-JUL-2005 00:03:12
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	21-JUL-2005 00:03:12



# GOMOS Level 2 Daily Report

## SUMMARY

### [1. General Info](#)

### [2. Summary of processed GOM\\_NL\\_2P products](#)

### [3. Level 2 Quality information per product](#)

#### [3.1 Plot of level 2 quality information per product \(time dependant\)](#)

#### [3.2 Plot of level 2 quality information per product \(world map\)](#)

### [4. Level 1 Quality information per product \(stored on level 2 products\)](#)

#### [4.1 Plot of level 1 quality information per product \(time dependant\)](#)

##### [4.1.1 Plot of level 1 quality information per product \(time dependant\): ASCENDING](#)

##### [4.1.2 Plot of level 1 quality information per product \(time dependant\): DESCENDING](#)

#### [4.2 Plot of level 1 quality information per product \(world map\)](#)

##### [4.2.1 Plot of level 1 quality information per product \(world map\): ASCENDING](#)

##### [4.2.2 Plot of level 1 quality information per product \(world map\): DESCENDING](#)

### [5. Ozone profiles based on quality statistics and other trace gas profiles](#)

#### [5.1 Ozone statistics based on quality of products](#)

#### [5.2 Plot ozone profiles for all STD \(dark without errors\)](#)

#### [5.3 Plot ozone profiles where STD < 20% \(dark without errors\)](#)

#### [5.4. Plot ozone profiles where STD < 10% \(dark without errors\)](#)

#### [5.5. Plot ozone profiles where STD < 5% \(dark without errors\)](#)

#### [5.6 Plot NO2 profiles for all STD \(dark without errors\)](#)

#### [5.7 Plot NO3 profiles for all STD \(dark without errors\)](#)

#### [5.8 Plot H2O profiles \(only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors\) for all STD](#)

### [6. Auxiliary Data Files used for the production reported in section 2](#)

This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM\_NL\_\_2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	18APR2013 10:01:43
Data source version	GOMOS/6.01
Start time of products	21-07-2005 (21JUL2005 00:00:00)
Stop time of products	22-07-2005 (22JUL2005 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	178
Nb of prods with errors	0

## 2. Summary of processed GOM\_NL\_\_2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20050721_000312_000000862039_00131_17720_5292.N1	21-JUL-2005 00:03:12	Dark	86.000	135	Bet Hyi	2.8200	5800.0	172	17720	No
2	GOM_NL__2PRFIN20050721_001900_000000902039_00131_17720_5293.N1	21-JUL-2005 00:19:00	Bright	89.500	38	20Eps Sgr	1.8360	11000.	179	17720	No
3	GOM_NL__2PRFIN20050721_002126_000000882039_00131_17720_5294.N1	21-JUL-2005 00:21:26	Bright	87.500	137	22Lam Sgr	2.8240	4400.0	175	17720	No
4	GOM_NL__2PRFIN20050721_003013_000000862039_00131_17720_5295.N1	21-JUL-2005 00:30:13	Bright	86.000	126	60Bet Oph	2.7700	4250.0	172	17720	No
5	GOM_NL__2PRFIN20050721_003231_000000862039_00131_17720_5296.N1	21-JUL-2005 00:32:31	Bright	85.500	59	55Alp Oph	2.0800	8900.0	171	17720	No
6	GOM_NL__2PRFIN20050721_003837_000000882039_00131_17720_5297.N1	21-JUL-2005 00:38:37	Bright	87.500	133	40Zet Her	2.8070	6000.0	175	17720	No
7	GOM_NL__2PRFIN20050721_004328_000000822039_00131_17720_5298.N1	21-JUL-2005 00:43:28	Bright	82.000	130	23Bet Dra	2.7990	5800.0	164	17720	No
8	GOM_NL__2PRFIN20050721_004638_000000862039_00131_17720_5299.N1	21-JUL-2005 00:46:38	Bright	86.000	119	14Eta Dra	2.7270	4700.0	172	17720	No
9	GOM_NL__2PRFIN20050721_005051_000000832039_00131_17720_5300.N1	21-JUL-2005 00:50:51	Bright	82.500	60	7Bet UMi	2.0810	3950.0	165	17720	No
10	GOM_NL__2PRFIN20050721_011750_000000902039_00131_17720_5301.N1	21-JUL-2005 01:17:50	Dark	89.500	27	24Gam Ori	1.6360	26000.	179	17720	No
11	GOM_NL__2PRFIN20050721_011956_000000882039_00131_17720_5302.N1	21-JUL-2005 01:19:56	Dark	88.000	33	50Zet Ori	1.7660	30000.	176	17720	No
12	GOM_NL__2PRFIN20050721_012201_000000942039_00131_17720_5303.N1	21-JUL-2005 01:22:01	Dark	93.500	7	19Bet Ori	0.10000	14000.	187	17720	No
13	GOM_NL__2PRFIN20050721_012423_000000862039_00131_17720_5304.N1	21-JUL-2005 01:24:23	Dark	86.000	101	11Alp Lep	2.5820	7000.0	172	17720	No
14	GOM_NL__2PRFIN20050721_014348_000000872039_00132_17721_5305.N1	21-JUL-2005 01:43:48	Dark	87.000	135	Bet Hyi	2.8200	5800.0	174	17721	No
15	GOM_NL__2PRFIN20050721_015936_000000902039_00132_17721_5306.N1	21-JUL-2005 01:59:36	Bright	89.500	38	20Eps Sgr	1.8360	11000.	179	17721	No
16	GOM_NL__2PRFIN20050721_020203_000000872039_00132_17721_5307.N1	21-JUL-2005 02:02:03	Bright	87.000	137	22Lam Sgr	2.8240	4400.0	174	17721	No
17	GOM_NL__2PRFIN20050721_021049_000000872039_00132_17721_5308.N1	21-JUL-2005 02:10:49	Bright	87.000	126	60Bet Oph	2.7700	4250.0	174	17721	No
18	GOM_NL__2PRFIN20050721_021307_000000862039_00132_17721_5309.N1	21-JUL-2005 02:13:07	Bright	85.500	59	55Alp Oph	2.0800	8900.0	171	17721	No
19	GOM_NL__2PRFIN20050721_022404_000000862039_00132_17721_5310.N1	21-JUL-2005 02:24:04	Bright	85.500	130	23Bet Dra	2.7990	5800.0	171	17721	No
20	GOM_NL__2PRFIN20050721_022714_000000822039_00132_17721_5311.N1	21-JUL-2005 02:27:14	Bright	81.500	119	14Eta Dra	2.7270	4700.0	163	17721	No
21	GOM_NL__2PRFIN20050721_023128_000000842039_00132_17721_5312.N1	21-JUL-2005 02:31:28	Bright	83.500	60	7Bet UMi	2.0810	3950.0	167	17721	No
22	GOM_NL__2PRFIN20050721_025826_000000902039_00132_17721_5313.N1	21-JUL-2005 02:58:26	Dark	90.000	27	24Gam Ori	1.6360	26000.	180	17721	No
23	GOM_NL__2PRFIN20050721_030032_000000892039_00132_17721_5314.N1	21-JUL-2005 03:00:32	Dark	88.500	33	50Zet Ori	1.7660	30000.	177	17721	No
24	GOM_NL__2PRFIN20050721_030237_000000892039_00132_17721_5315.N1	21-JUL-2005 03:02:37	Dark	89.000	7	19Bet Ori	0.10000	14000.	178	17721	No
25	GOM_NL__2PRFIN20050721_030500_000000842039_00132_17721_5316.N1	21-JUL-2005 03:05:00	Dark	83.500	101	11Alp Lep	2.5820	7000.0	167	17721	No
26	GOM_NL__2PRFIN20050721_032425_000000852039_00133_17722_5306.N1	21-JUL-2005 03:24:25	Dark	85.000	135	Bet Hyi	2.8200	5800.0	170	17722	No
27	GOM_NL__2PRFIN20050721_034013_000000922039_00133_17722_5307.N1	21-JUL-2005 03:40:13	Bright	91.500	38	20Eps Sgr	1.8360	11000.	183	17722	No
28	GOM_NL__2PRFIN20050721_034239_000000892039_00133_17722_5308.N1	21-JUL-2005 03:42:39	Bright	89.000	137	22Lam Sgr	2.8240	4400.0	178	17722	No
29	GOM_NL__2PRFIN20050721_035125_000000852039_00133_17722_5309.N1	21-JUL-2005 03:51:25	Bright	85.000	126	60Bet Oph	2.7700	4250.0	170	17722	No
30	GOM_NL__2PRFIN20050721_035344_000000852039_00133_17722_5310.N1	21-JUL-2005 03:53:44	Bright	85.000	59	55Alp Oph	2.0800	8900.0	170	17722	No
31	GOM_NL__2PRFIN20050721_035950_000000852039_00133_17722_5311.N1	21-JUL-2005 03:59:50	Bright	85.000	133	40Zet Her	2.8070	6000.0	170	17722	No
32	GOM_NL__2PRFIN20050721_040440_000000842039_00133_17722_5312.N1	21-JUL-2005 04:04:40	Bright	84.000	130	23Bet Dra	2.7990	5800.0	168	17722	No
33	GOM_NL__2PRFIN20050721_040750_000000822039_00133_17722_5313.N1	21-JUL-2005 04:07:50	Bright	82.000	119	14Eta Dra	2.7270	4700.0	164	17722	No
34	GOM_NL__2PRFIN20050721_041204_000000832039_00133_17722_5314.N1	21-JUL-2005 04:12:04	Bright	82.500	60	7Bet UMi	2.0810	3950.0	165	17722	No
35	GOM_NL__2PRFIN20050721_043902_000000912039_00133_17722_5315.N1	21-JUL-2005 04:39:02	Dark	90.500	27	24Gam Ori	1.6360	26000.	181	17722	No
36	GOM_NL__2PRFIN20050721_044108_000000852039_00133_17722_5316.N1	21-JUL-2005 04:41:08	Dark	85.000	33	50Zet Ori	1.7660	30000.	170	17722	No
37	GOM_NL__2PRFIN20050721_044314_000000852039_00133_17722_5317.N1	21-JUL-2005 04:43:14	Dark	84.500	7	19Bet Ori	0.10000	14000.	169	17722	No
38	GOM_NL__2PRFIN20050721_044536_000000842039_00133_17722_5318.N1	21-JUL-2005 04:45:36	Dark	84.000	101	11Alp Lep	2.5820	7000.0	168	17722	No
39	GOM_NL__2PRFIN20050721_050501_000000852039_00134_17723_5307.N1	21-JUL-2005 05:05:01	Dark	84.500	135	Bet Hyi	2.8200	5800.0	169	17723	No
40	GOM_NL__2PRFIN20050721_052049_000000922039_00134_17723_5308.N1	21-JUL-2005 05:20:49	Bright	92.000	38	20Eps Sgr	1.8360	11000.	184	17723	No
41	GOM_NL__2PRFIN20050721_052315_000000882039_00134_17723_5309.N1	21-JUL-2005 05:23:15	Bright	87.500	137	22Lam Sgr	2.8240	4400.0	175	17723	No
42	GOM_NL__2PRFIN20050721_053201_000000872039_00134_17723_5310.N1	21-JUL-2005 05:32:01	Bright	86.500	126	60Bet Oph	2.7700	4250.0	173	17723	No

43	GOM_NL__2PRFIN20050721_053420_00000852039_00134_17723_5311.N1	21-JUL-2005 05:34:20	Bright	85.000	59	55Alp Oph	2.0800	8900.0	170	17723	No
44	GOM_NL__2PRFIN20050721_054026_00000862039_00134_17723_5312.N1	21-JUL-2005 05:40:26	Bright	85.500	133	40Zet Her	2.8070	6000.0	171	17723	No
45	GOM_NL__2PRFIN20050721_054516_00000852039_00134_17723_5313.N1	21-JUL-2005 05:45:16	Bright	85.000	130	23Bet Dra	2.7990	5800.0	170	17723	No
46	GOM_NL__2PRFIN20050721_054827_00000862039_00134_17723_5314.N1	21-JUL-2005 05:48:27	Bright	85.500	119	14Eta Dra	2.7270	4700.0	171	17723	No
47	GOM_NL__2PRFIN20050721_055240_00000902039_00134_17723_5315.N1	21-JUL-2005 05:52:40	Bright	89.500	60	7Bet UMi	2.0810	3950.0	179	17723	No
48	GOM_NL__2PRFIN20050721_061938_00000892039_00134_17723_5316.N1	21-JUL-2005 06:19:38	Dark	89.000	27	24Gam Ori	1.6360	26000.	178	17723	No
49	GOM_NL__2PRFIN20050721_062144_00000842039_00134_17723_5317.N1	21-JUL-2005 06:21:44	Dark	83.500	33	50Zet Ori	1.7660	30000.	167	17723	No
50	GOM_NL__2PRFIN20050721_062350_00000882039_00134_17723_5318.N1	21-JUL-2005 06:23:50	Dark	87.500	7	19Bet Ori	0.10000	14000.	175	17723	No
51	GOM_NL__2PRFIN20050721_062612_00000882039_00134_17723_5319.N1	21-JUL-2005 06:26:12	Dark	87.500	101	11Alp Lep	2.5820	7000.0	175	17723	No
52	GOM_NL__2PRFIN20050721_064537_00000852039_00135_17724_5308.N1	21-JUL-2005 06:45:37	Dark	84.500	135	Bet Hyi	2.8200	5800.0	169	17724	No
53	GOM_NL__2PRFIN20050721_070125_00000892039_00135_17724_5309.N1	21-JUL-2005 07:01:25	Bright	88.500	38	20Eps Sgr	1.8360	11000.	177	17724	No
54	GOM_NL__2PRFIN20050721_070351_00000882039_00135_17724_5310.N1	21-JUL-2005 07:03:51	Bright	87.500	137	22Lam Sgr	2.8240	4400.0	175	17724	No
55	GOM_NL__2PRFIN20050721_071237_00000852039_00135_17724_5311.N1	21-JUL-2005 07:12:37	Bright	84.500	126	60Bet Oph	2.7700	4250.0	169	17724	No
56	GOM_NL__2PRFIN20050721_071456_00000872039_00135_17724_5312.N1	21-JUL-2005 07:14:56	Bright	86.500	59	55Alp Oph	2.0800	8900.0	173	17724	No
57	GOM_NL__2PRFIN20050721_072103_00000862039_00135_17724_5313.N1	21-JUL-2005 07:21:03	Bright	85.500	133	40Zet Her	2.8070	6000.0	171	17724	No
58	GOM_NL__2PRFIN20050721_072552_00000852039_00135_17724_5314.N1	21-JUL-2005 07:25:52	Bright	85.000	130	23Bet Dra	2.7990	5800.0	170	17724	No
59	GOM_NL__2PRFIN20050721_072903_00000852039_00135_17724_5315.N1	21-JUL-2005 07:29:03	Bright	85.000	119	14Eta Dra	2.7270	4700.0	170	17724	No
60	GOM_NL__2PRFIN20050721_073316_00000832039_00135_17724_5316.N1	21-JUL-2005 07:33:16	Bright	83.000	60	7Bet UMi	2.0810	3950.0	166	17724	No
61	GOM_NL__2PRFIN20050721_080015_00000862039_00135_17724_5317.N1	21-JUL-2005 08:00:15	Dark	85.500	27	24Gam Ori	1.6360	26000.	171	17724	No
62	GOM_NL__2PRFIN20050721_080220_00000862039_00135_17724_5318.N1	21-JUL-2005 08:02:20	Dark	85.500	33	50Zet Ori	1.7660	30000.	171	17724	No
63	GOM_NL__2PRFIN20050721_080426_00000902039_00135_17724_5319.N1	21-JUL-2005 08:04:26	Dark	90.000	7	19Bet Ori	0.10000	14000.	180	17724	No
64	GOM_NL__2PRFIN20050721_080648_00000892039_00135_17724_5320.N1	21-JUL-2005 08:06:48	Dark	89.000	101	11Alp Lep	2.5820	7000.0	178	17724	No
65	GOM_NL__2PRFIN20050721_082613_00000852039_00136_17725_5309.N1	21-JUL-2005 08:26:13	Dark	84.500	135	Bet Hyi	2.8200	5800.0	169	17725	No
66	GOM_NL__2PRFIN20050721_084201_00000912039_00136_17725_5310.N1	21-JUL-2005 08:42:01	Bright	90.500	38	20Eps Sgr	1.8360	11000.	181	17725	No
67	GOM_NL__2PRFIN20050721_084427_00000882039_00136_17725_5311.N1	21-JUL-2005 08:44:27	Bright	87.500	137	22Lam Sgr	2.8240	4400.0	175	17725	No
68	GOM_NL__2PRFIN20050721_085314_00000862039_00136_17725_5312.N1	21-JUL-2005 08:53:14	Bright	86.000	126	60Bet Oph	2.7700	4250.0	172	17725	No
69	GOM_NL__2PRFIN20050721_085532_00000862039_00136_17725_5313.N1	21-JUL-2005 08:55:32	Bright	85.500	59	55Alp Oph	2.0800	8900.0	171	17725	No
70	GOM_NL__2PRFIN20050721_090139_00000862039_00136_17725_5314.N1	21-JUL-2005 09:01:39	Bright	85.500	133	40Zet Her	2.8070	6000.0	171	17725	No
71	GOM_NL__2PRFIN20050721_090628_00000862039_00136_17725_5315.N1	21-JUL-2005 09:06:28	Bright	85.500	130	23Bet Dra	2.7990	5800.0	171	17725	No
72	GOM_NL__2PRFIN20050721_090939_00000852039_00136_17725_5316.N1	21-JUL-2005 09:09:39	Bright	85.000	119	14Eta Dra	2.7270	4700.0	170	17725	No
73	GOM_NL__2PRFIN20050721_091352_00000852039_00136_17725_5317.N1	21-JUL-2005 09:13:52	Bright	85.000	60	7Bet UMi	2.0810	3950.0	170	17725	No
74	GOM_NL__2PRFIN20050721_094051_00000872039_00136_17725_5318.N1	21-JUL-2005 09:40:51	Dark	86.500	27	24Gam Ori	1.6360	26000.	173	17725	No
75	GOM_NL__2PRFIN20050721_094257_00000872039_00136_17725_5319.N1	21-JUL-2005 09:42:57	Dark	87.000	33	50Zet Ori	1.7660	30000.	174	17725	No
76	GOM_NL__2PRFIN20050721_094502_00000902039_00136_17725_5320.N1	21-JUL-2005 09:45:02	Dark	90.000	7	19Bet Ori	0.10000	14000.	180	17725	No
77	GOM_NL__2PRFIN20050721_094724_00000912039_00136_17725_5321.N1	21-JUL-2005 09:47:24	Dark	91.000	101	11Alp Lep	2.5820	7000.0	182	17725	No
78	GOM_NL__2PRFIN20050721_100649_00000872039_00137_17726_5310.N1	21-JUL-2005 10:06:49	Dark	86.500	135	Bet Hyi	2.8200	5800.0	173	17726	No
79	GOM_NL__2PRFIN20050721_102237_00000912039_00137_17726_5311.N1	21-JUL-2005 10:22:37	Bright	91.000	38	20Eps Sgr	1.8360	11000.	182	17726	No
80	GOM_NL__2PRFIN20050721_102503_00000872039_00137_17726_5312.N1	21-JUL-2005 10:25:03	Bright	87.000	137	22Lam Sgr	2.8240	4400.0	174	17726	No
81	GOM_NL__2PRFIN20050721_103350_00000862039_00137_17726_5313.N1	21-JUL-2005 10:33:50	Bright	86.000	126	60Bet Oph	2.7700	4250.0	172	17726	No
82	GOM_NL__2PRFIN20050721_103608_00000862039_00137_17726_5314.N1	21-JUL-2005 10:36:08	Bright	86.000	59	55Alp Oph	2.0800	8900.0	172	17726	No
83	GOM_NL__2PRFIN20050721_104704_00000852039_00137_17726_5315.N1	21-JUL-2005 10:47:04	Bright	84.500	130	23Bet Dra	2.7990	5800.0	169	17726	No
84	GOM_NL__2PRFIN20050721_105015_00000862039_00137_17726_5316.N1	21-JUL-2005 10:50:15	Bright	85.500	119	14Eta Dra	2.7270	4700.0	171	17726	No
85	GOM_NL__2PRFIN20050721_112127_00000882039_00137_17726_5317.N1	21-JUL-2005 11:21:27	Dark	87.500	27	24Gam Ori	1.6360	26000.	175	17726	No
86	GOM_NL__2PRFIN20050721_112333_00000882039_00137_17726_5318.N1	21-JUL-2005 11:23:33	Dark	87.500	33	50Zet Ori	1.7660	30000.	175	17726	No
87	GOM_NL__2PRFIN20050721_112539_00001032039_00137_17726_5319.N1	21-JUL-2005 11:25:39	Dark	102.50	7	19Bet Ori	0.10000	14000.	205	17726	No
88	GOM_NL__2PRFIN20050721_112800_00000892039_00137_17726_5320.N1	21-JUL-2005 11:28:00	Dark	89.000	101	11Alp Lep	2.5820	7000.0	178	17726	No
89	GOM_NL__2PRFIN20050721_114725_00000852039_00138_17727_5311.N1	21-JUL-2005 11:47:25	Dark	85.000	135	Bet Hyi	2.8200	5800.0	170	17727	No
90	GOM_NL__2PRFIN20050721_120313_00000932039_00138_17727_5312.N1	21-JUL-2005 12:03:13	Bright	92.500	38	20Eps Sgr	1.8360	11000.	185	17727	No
91	GOM_NL__2PRFIN20050721_120539_00000882039_00138_17727_5313.N1	21-JUL-2005 12:05:39	Bright	88.000	137	22Lam Sgr	2.8240	4400.0	176	17727	No
92	GOM_NL__2PRFIN20050721_121426_00000862039_00138_17727_5314.N1	21-JUL-2005 12:14:26	Bright	86.000	126	60Bet Oph	2.7700	4250.0	172	17727	No
93	GOM_NL__2PRFIN20050721_121644_00000842039_00138_17727_5315.N1	21-JUL-2005 12:16:44	Bright	84.000	59	55Alp Oph	2.0800	8900.0	168	17727	No
94	GOM_NL__2PRFIN20050721_122251_00000862039_00138_17727_5316.N1	21-JUL-2005 12:22:51	Bright	86.000	133	40Zet Her	2.8070	6000.0	172	17727	No
95	GOM_NL__2PRFIN20050721_122740_00000872039_00138_17727_5317.N1	21-JUL-2005 12:27:40	Bright	86.500	130	23Bet Dra	2.7990	5800.0	173	17727	No
96	GOM_NL__2PRFIN20050721_123051_00000862039_00138_17727_5318.N1	21-JUL-2005 12:30:51	Bright	85.500	119	14Eta Dra	2.7270	4700.0	171	17727	No
97	GOM_NL__2PRFIN20050721_123505_00000872039_00138_17727_5319.N1	21-JUL-2005 12:35:05	Bright	86.500	60	7Bet UMi	2.0810	3950.0	173	17727	No
98	GOM_NL__2PRFIN20050721_130203_00000892039_00138_17727_5320.N1	21-JUL-2005 13:02:03	Dark	88.500	27	24Gam Ori	1.6360	26000.	177	17727	No
99	GOM_NL__2PRFIN20050721_130409_00000892039_00138_17727_5321.N1	21-JUL-2005 13:04:09	Dark	88.500	33	50Zet Ori	1.7660	30000.	177	17727	No
100	GOM_NL__2PRFIN20050721_130615_00000942039_00138_17727_5322.N1	21-JUL-2005 13:06:15	Dark	94.000	7	19Bet Ori	0.10000	14000.	188	17727	No
101	GOM_NL__2PRFIN20050721_130836_00000902039_00138_17727_5323.N1	21-JUL-2005 13:08:36	Dark	90.000	101	11Alp Lep	2.5820	7000.0	180	17727	No

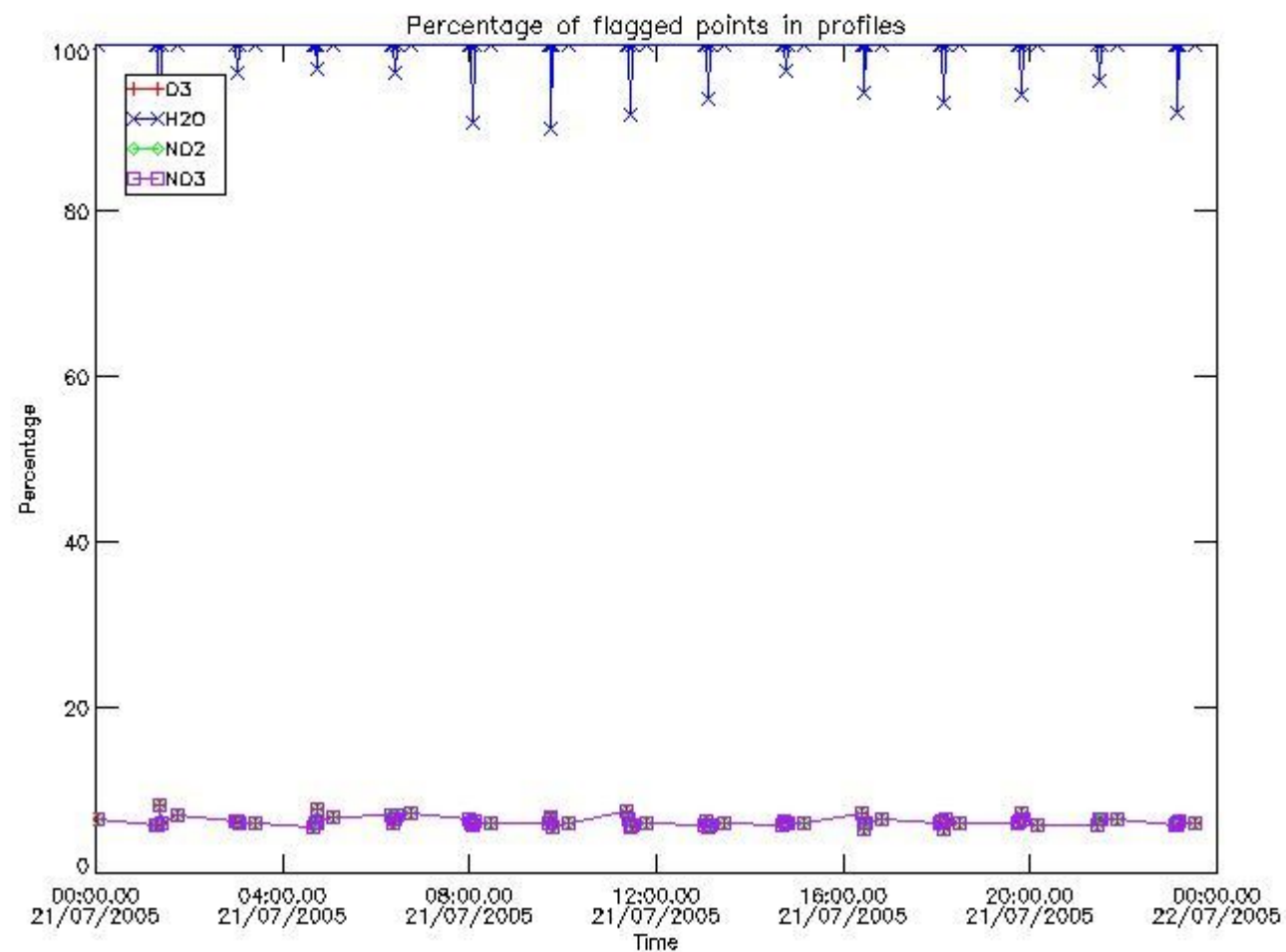


161	GOM_NL__2PRFIN20050721_212916_000000932039_00143_17732_5346.N1	21-JUL-2005 21:29:16	Dark	92.500	7	19Bet Ori	0.10000	14000.	185	17732	No
162	GOM_NL__2PRFIN20050721_213137_000000872039_00143_17732_5347.N1	21-JUL-2005 21:31:37	Dark	86.500	101	11Alp Lep	2.5820	7000.0	173	17732	No
163	GOM_NL__2PRFIN20050721_215102_000000862039_00144_17733_5338.N1	21-JUL-2005 21:51:02	Dark	86.000	135	Bet Hyi	2.8200	5800.0	172	17733	No
164	GOM_NL__2PRFIN20050721_220649_000000892039_00144_17733_5339.N1	21-JUL-2005 22:06:49	Bright	89.000	38	20Eps Sgr	1.8360	11000.	178	17733	No
165	GOM_NL__2PRFIN20050721_220916_000000872039_00144_17733_5340.N1	21-JUL-2005 22:09:16	Bright	87.000	137	22Lam Sgr	2.8240	4400.0	174	17733	No
166	GOM_NL__2PRFIN20050721_221802_000000862039_00144_17733_5341.N1	21-JUL-2005 22:18:02	Bright	85.500	126	60Bet Oph	2.7700	4250.0	171	17733	No
167	GOM_NL__2PRFIN20050721_222021_000000872039_00144_17733_5342.N1	21-JUL-2005 22:20:21	Bright	86.500	59	55Alp Oph	2.0800	8900.0	173	17733	No
168	GOM_NL__2PRFIN20050721_223117_000000822039_00144_17733_5343.N1	21-JUL-2005 22:31:17	Bright	82.000	130	23Bet Dra	2.7990	5800.0	164	17733	No
169	GOM_NL__2PRFIN20050721_223428_000000932039_00144_17733_5344.N1	21-JUL-2005 22:34:28	Bright	92.500	119	14Eta Dra	2.7270	4700.0	185	17733	No
170	GOM_NL__2PRFIN20050721_223841_000000872039_00144_17733_5345.N1	21-JUL-2005 22:38:41	Bright	87.000	60	7Bet UMi	2.0810	3950.0	174	17733	No
171	GOM_NL__2PRFIN20050721_230540_000000892039_00144_17733_5346.N1	21-JUL-2005 23:05:40	Dark	88.500	27	24Gam Ori	1.6360	26000.	177	17733	No
172	GOM_NL__2PRFIN20050721_230745_000000862039_00144_17733_5347.N1	21-JUL-2005 23:07:45	Dark	85.500	33	50Zet Ori	1.7660	30000.	171	17733	No
173	GOM_NL__2PRFIN20050721_230952_000000992039_00144_17733_5348.N1	21-JUL-2005 23:09:52	Dark	99.000	7	19Bet Ori	0.10000	14000.	198	17733	No
174	GOM_NL__2PRFIN20050721_231213_000000882039_00144_17733_5349.N1	21-JUL-2005 23:12:13	Dark	88.000	101	11Alp Lep	2.5820	7000.0	176	17733	No
175	GOM_NL__2PRFIN20050721_233139_000000872039_00145_17734_5197.N1	21-JUL-2005 23:31:39	Dark	86.500	135	Bet Hyi	2.8200	5800.0	173	17734	No
176	GOM_NL__2PRFIN20050721_234726_000000912039_00145_17734_5198.N1	21-JUL-2005 23:47:26	Bright	91.000	38	20Eps Sgr	1.8360	11000.	182	17734	No
177	GOM_NL__2PRFIN20050721_234952_000000902039_00145_17734_5199.N1	21-JUL-2005 23:49:52	Bright	89.500	137	22Lam Sgr	2.8240	4400.0	179	17734	No
178	GOM_NL__2PRFIN20050721_235838_000000872039_00145_17734_5200.N1	21-JUL-2005 23:58:38	Bright	87.000	126	60Bet Oph	2.7700	4250.0	174	17734	No

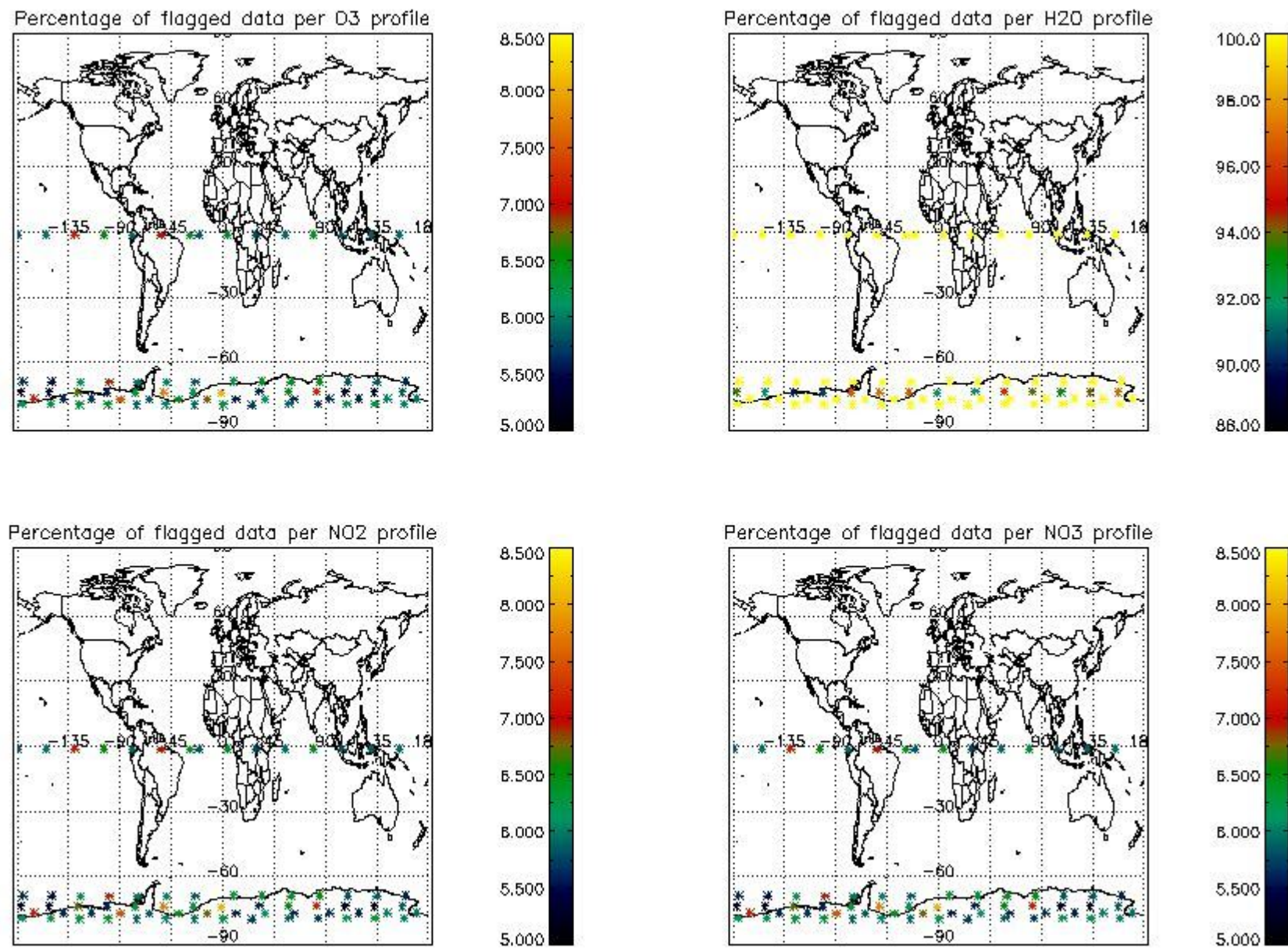
### 3. Quality information per product

In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

#### 3.1 Plot quality information per product (time dependant)



### 3.2 Plot quality information per product (world map)

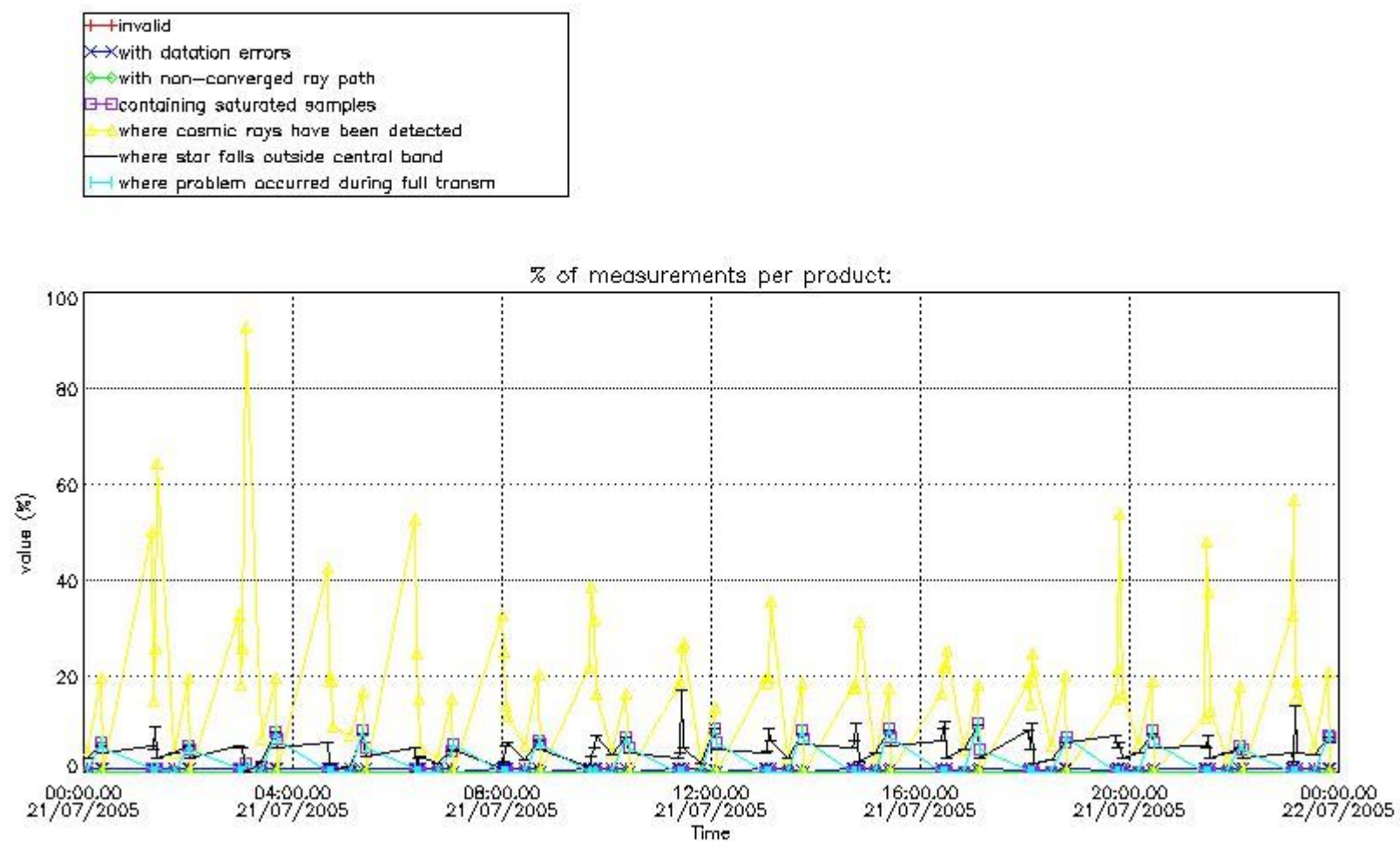


### 4. Level 1 quality information per product

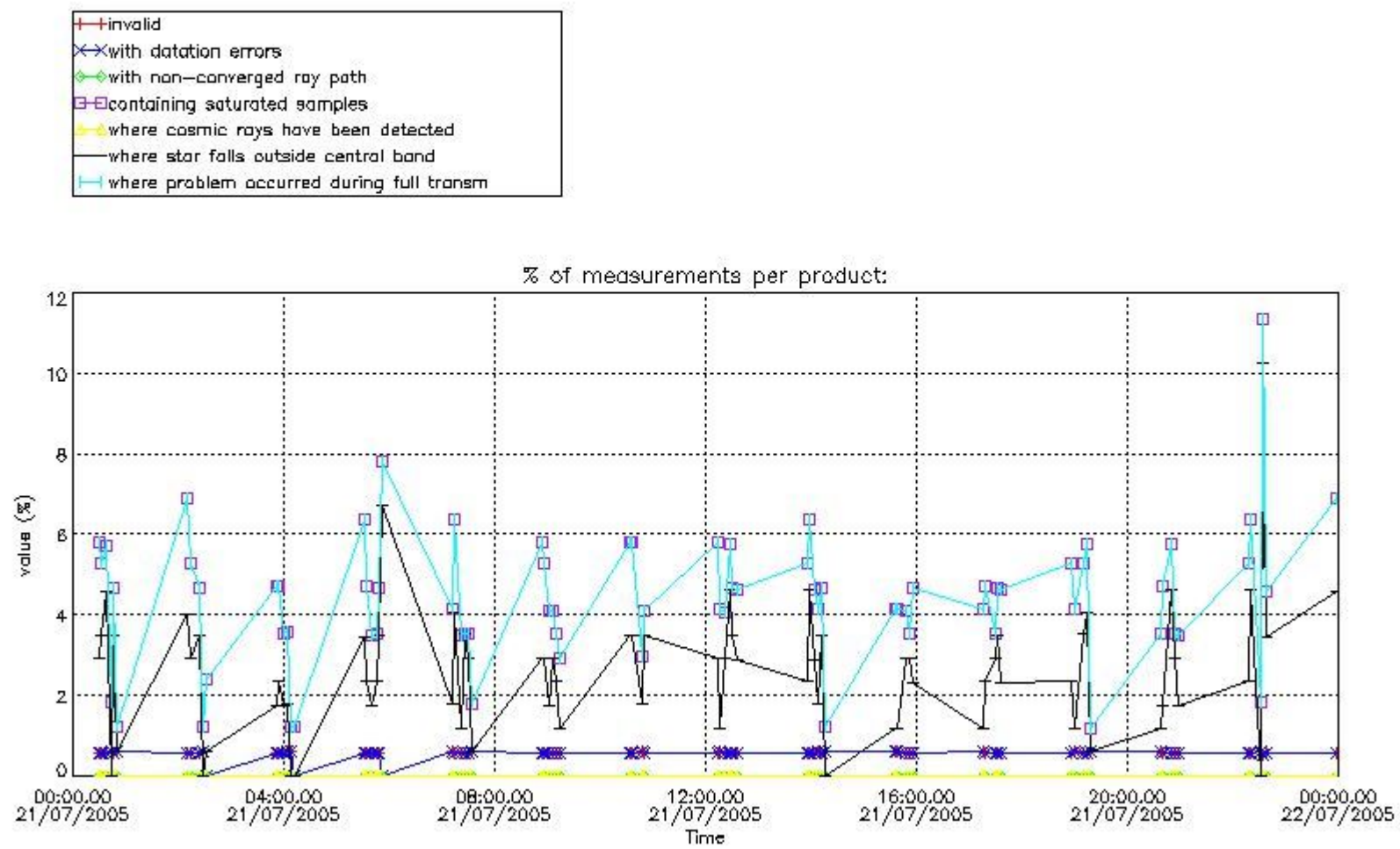
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

#### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

##### 4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes



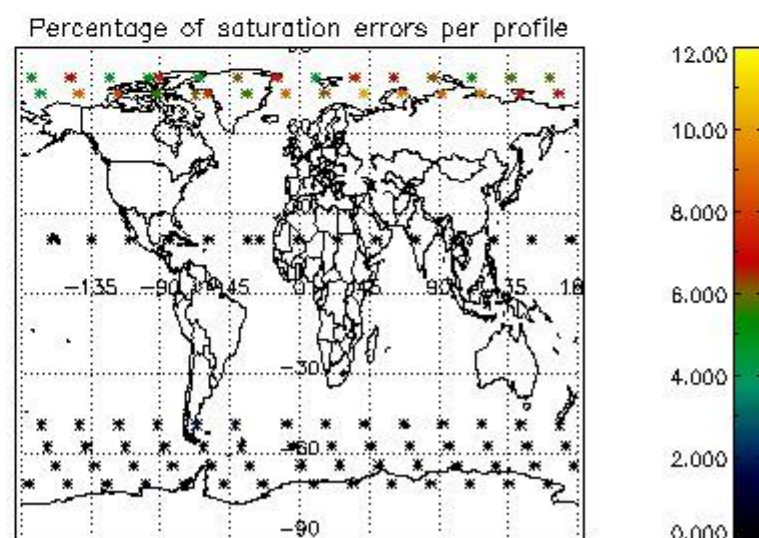
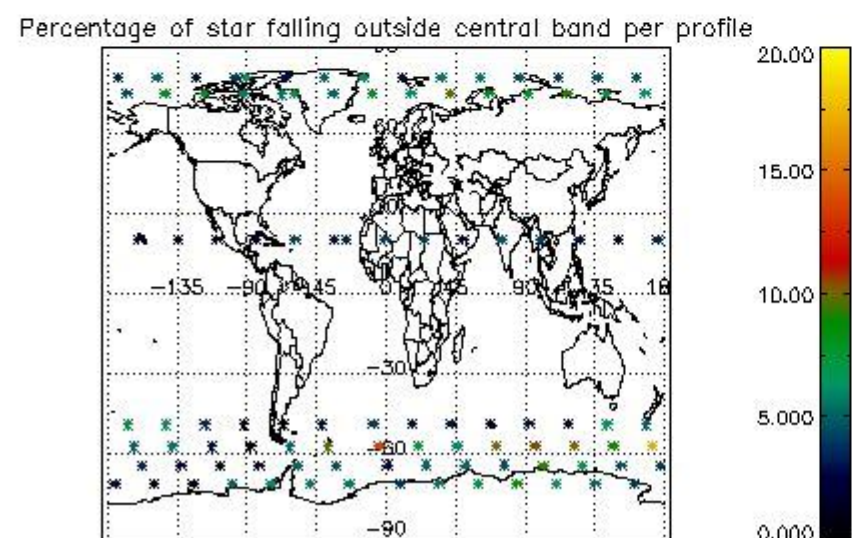
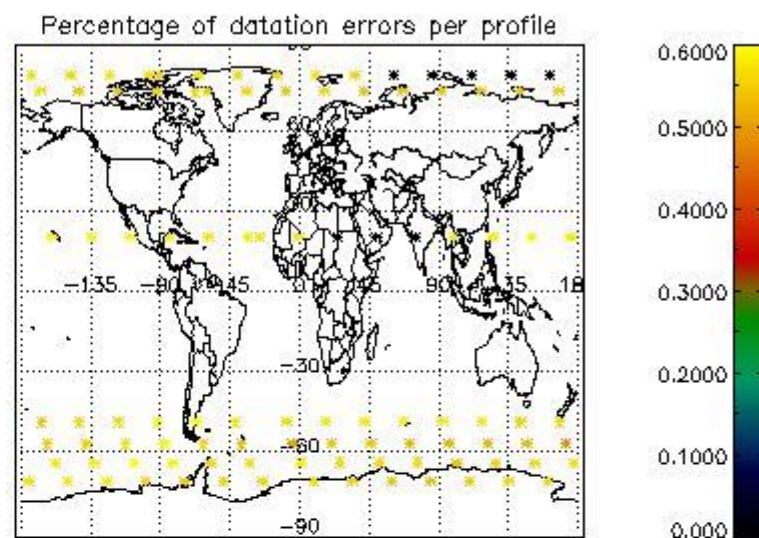
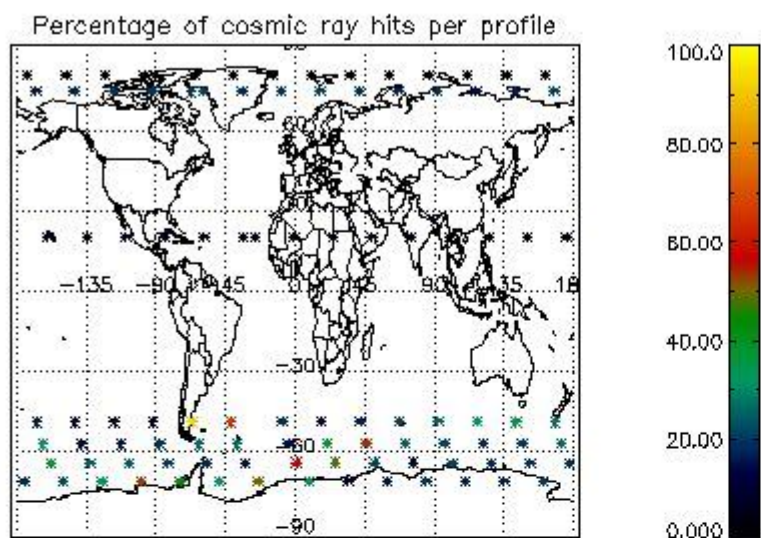
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



4.2 Plot quality information per product coming from level 1b processing (world map)

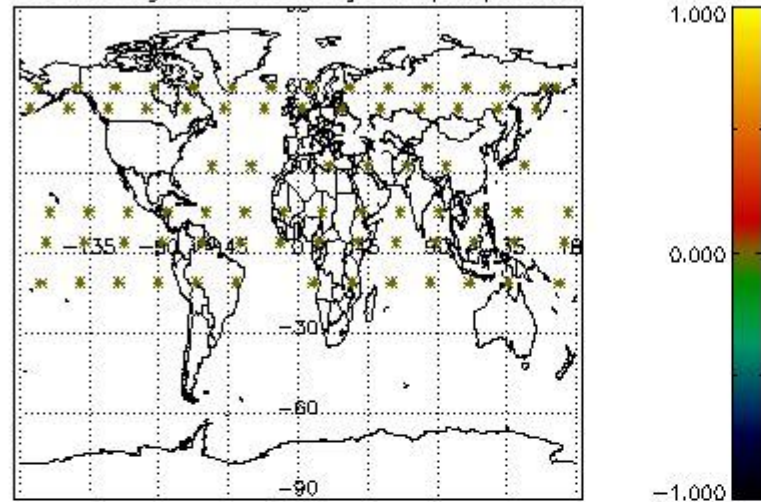
4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes



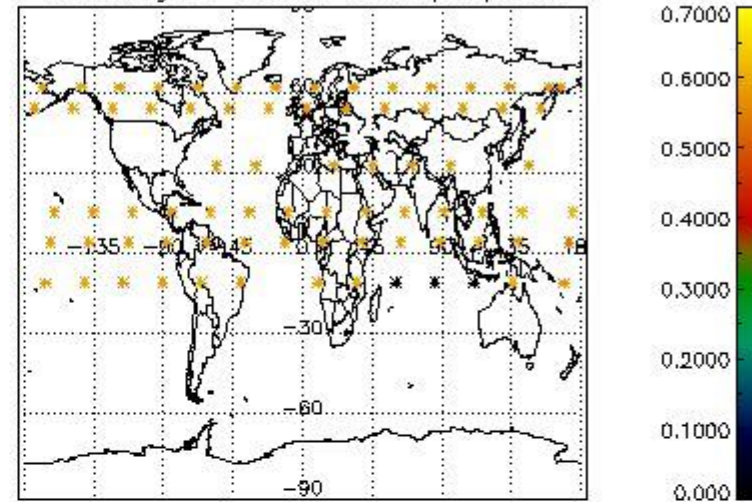


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

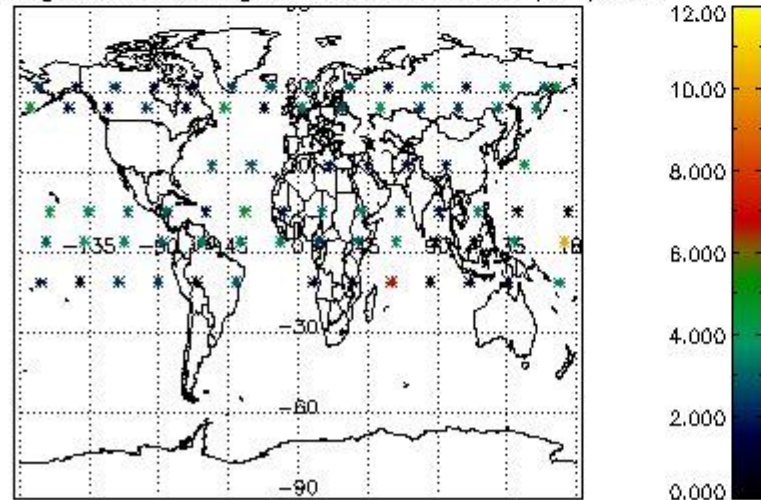
Percentage of cosmic ray hits per profile



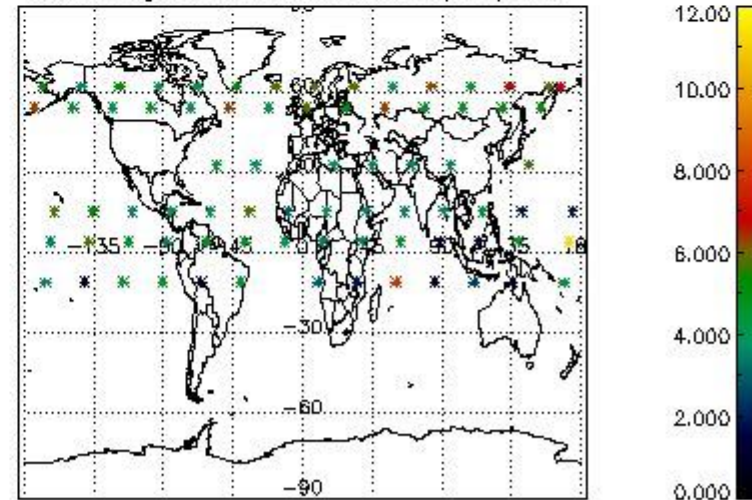
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/o3\_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM\_NL\_\_2P/NL\_SUMMARY\_QUALITY/obs\_ill\_cond=0
- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

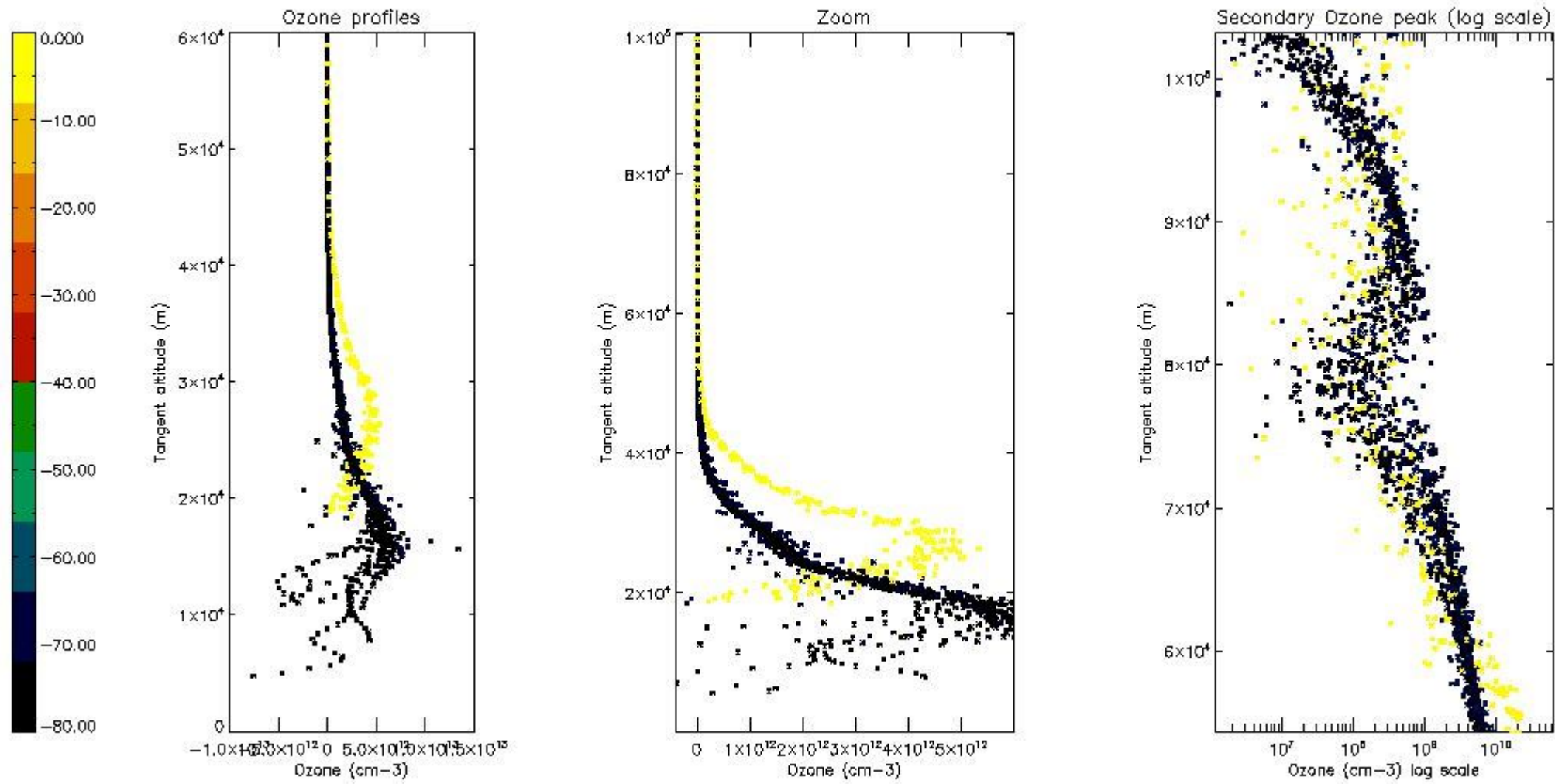
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	41
STD < 20	10

STD < 10	8
STD < 5	6

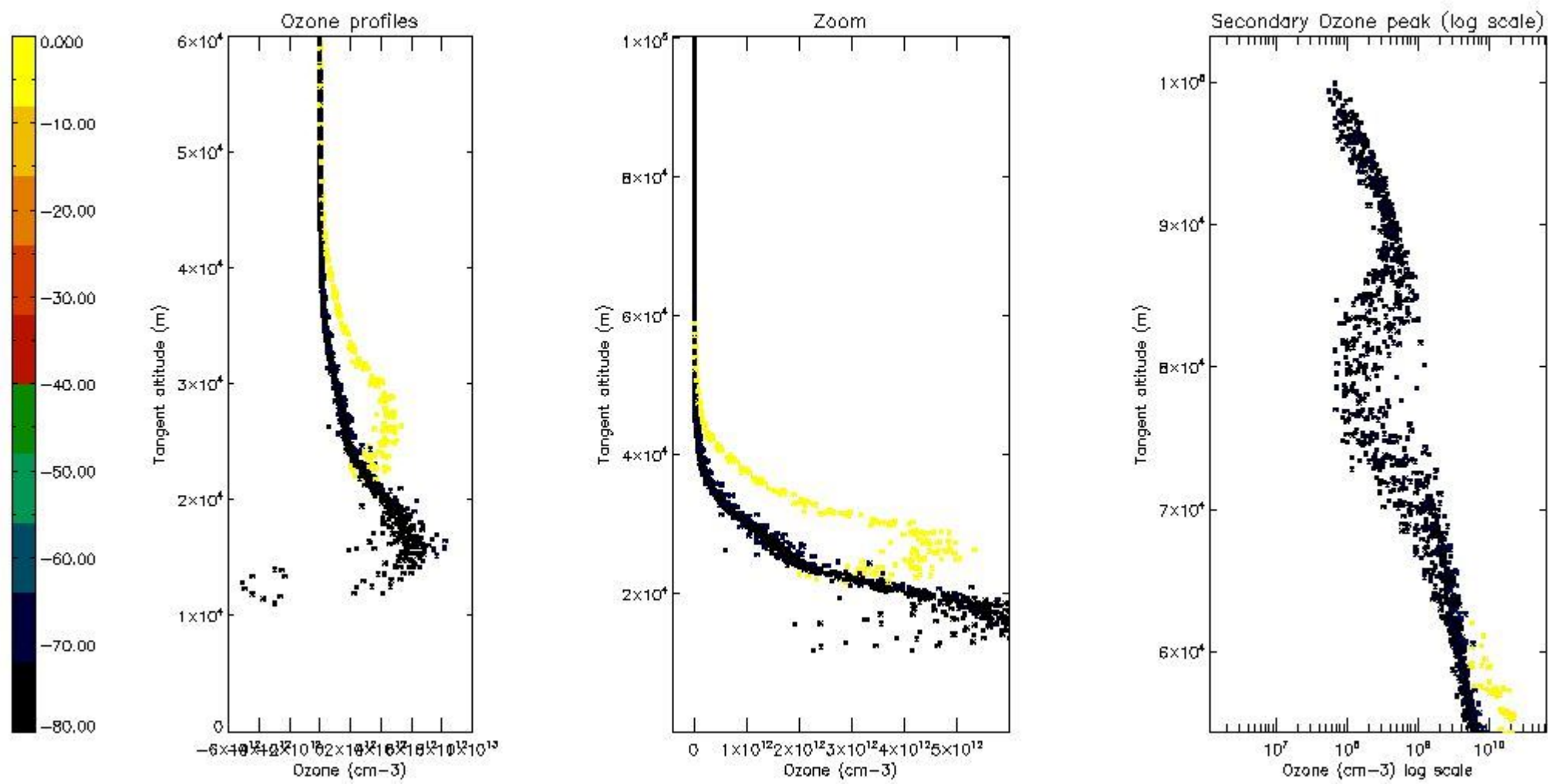
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



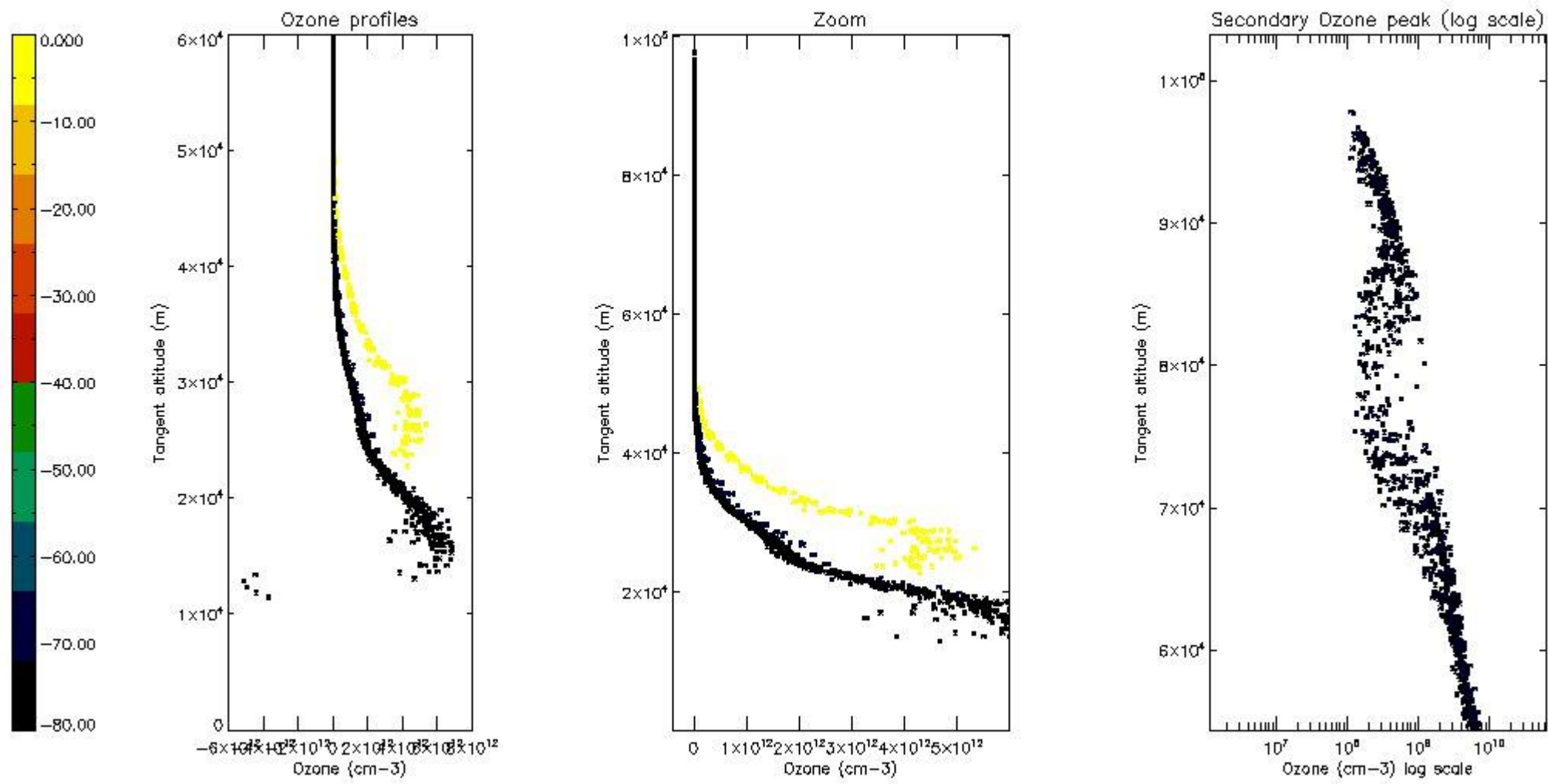
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



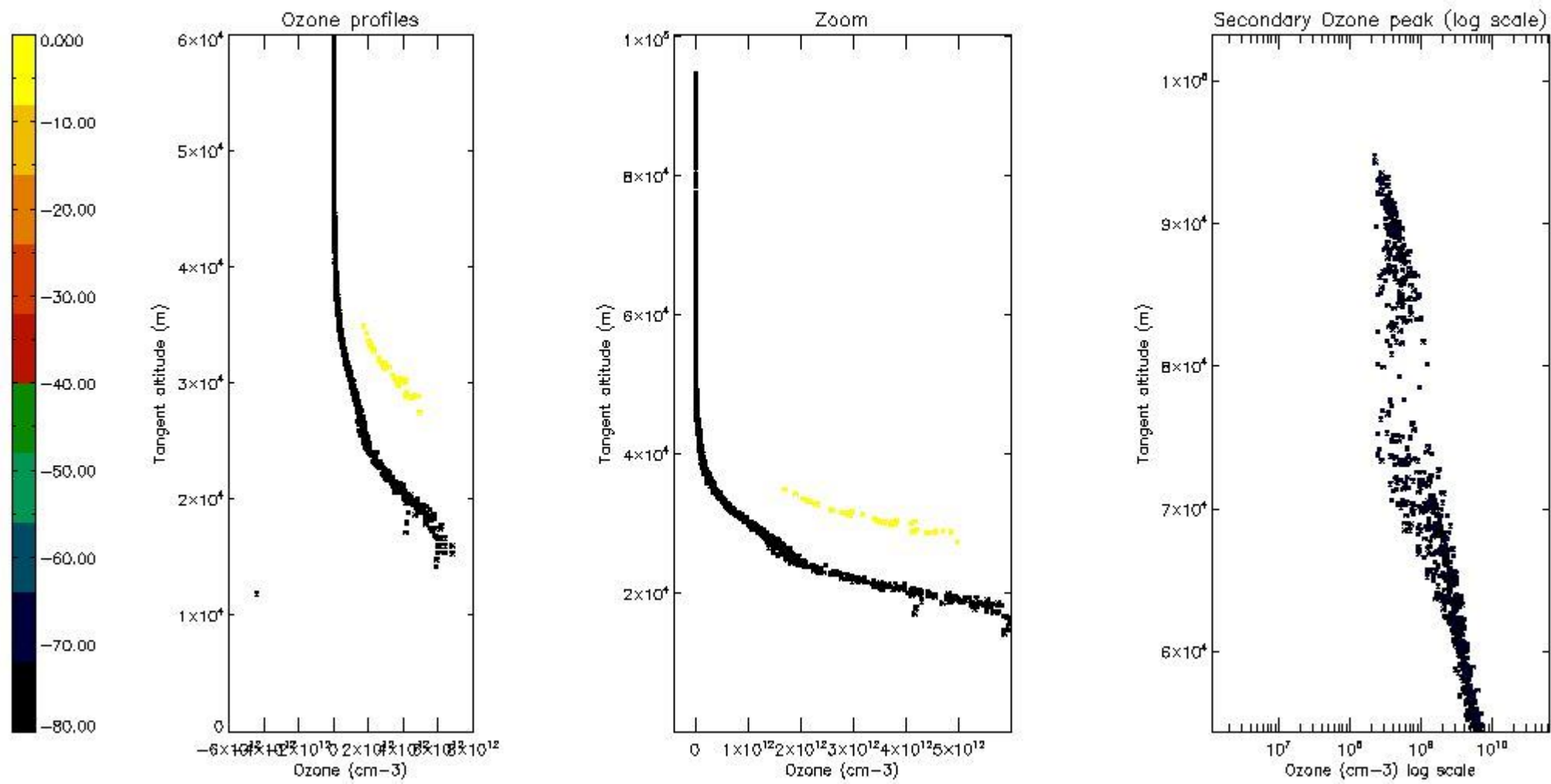
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



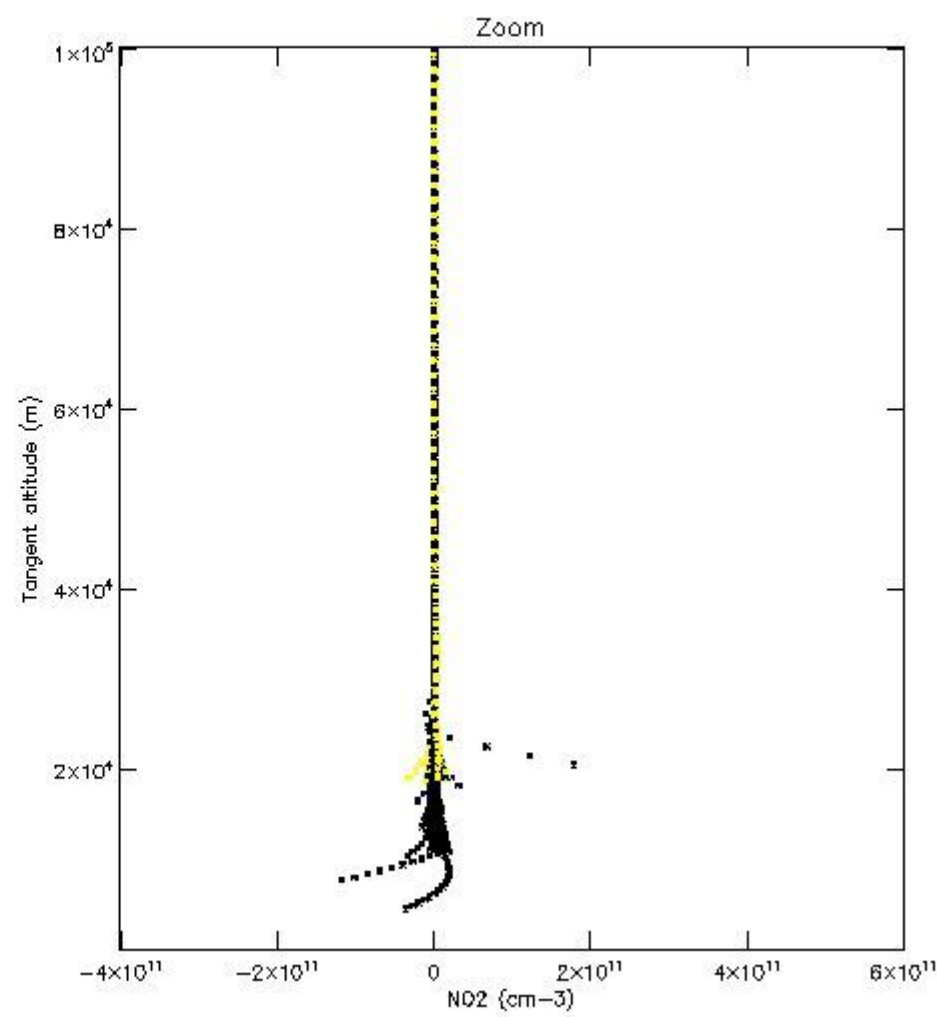
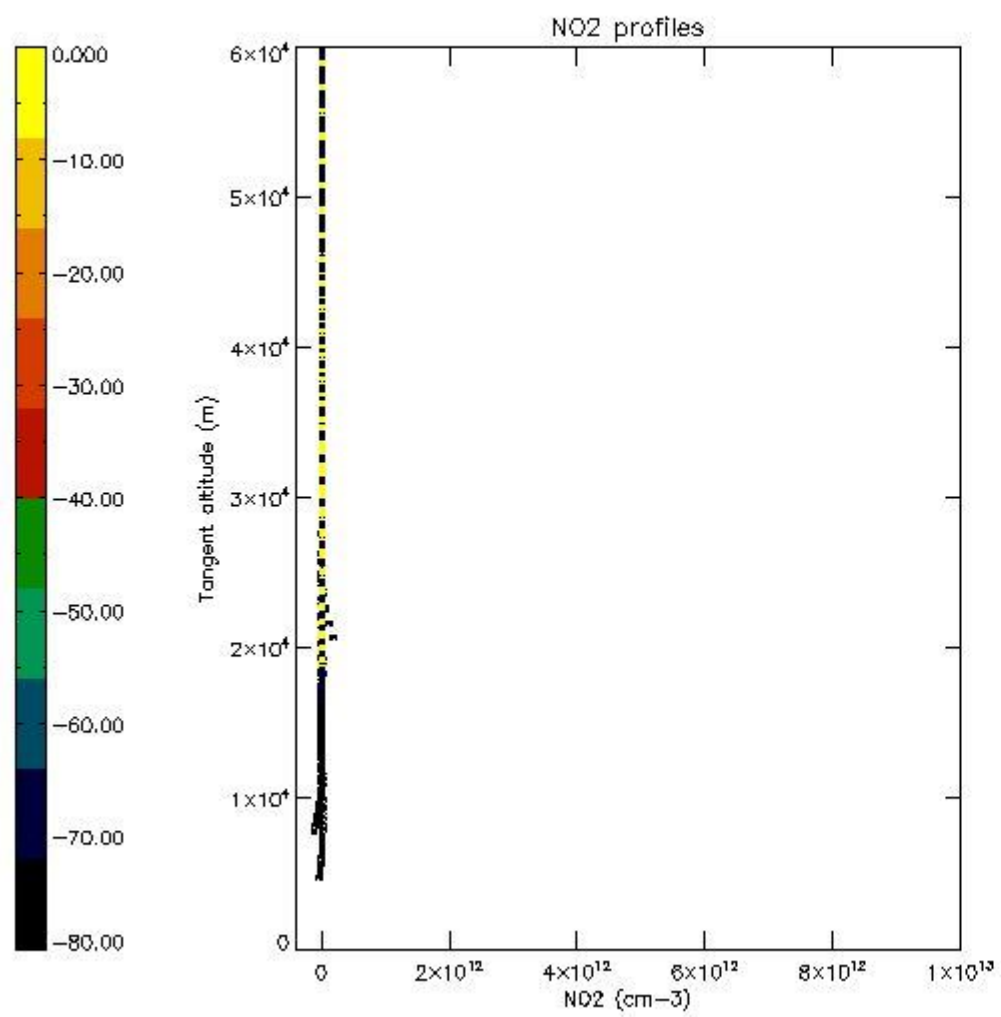
*5.5 Plot ozone profiles where  $\text{STD} < 5\%$  (dark without errors)*

The colorbar represents the latitude.



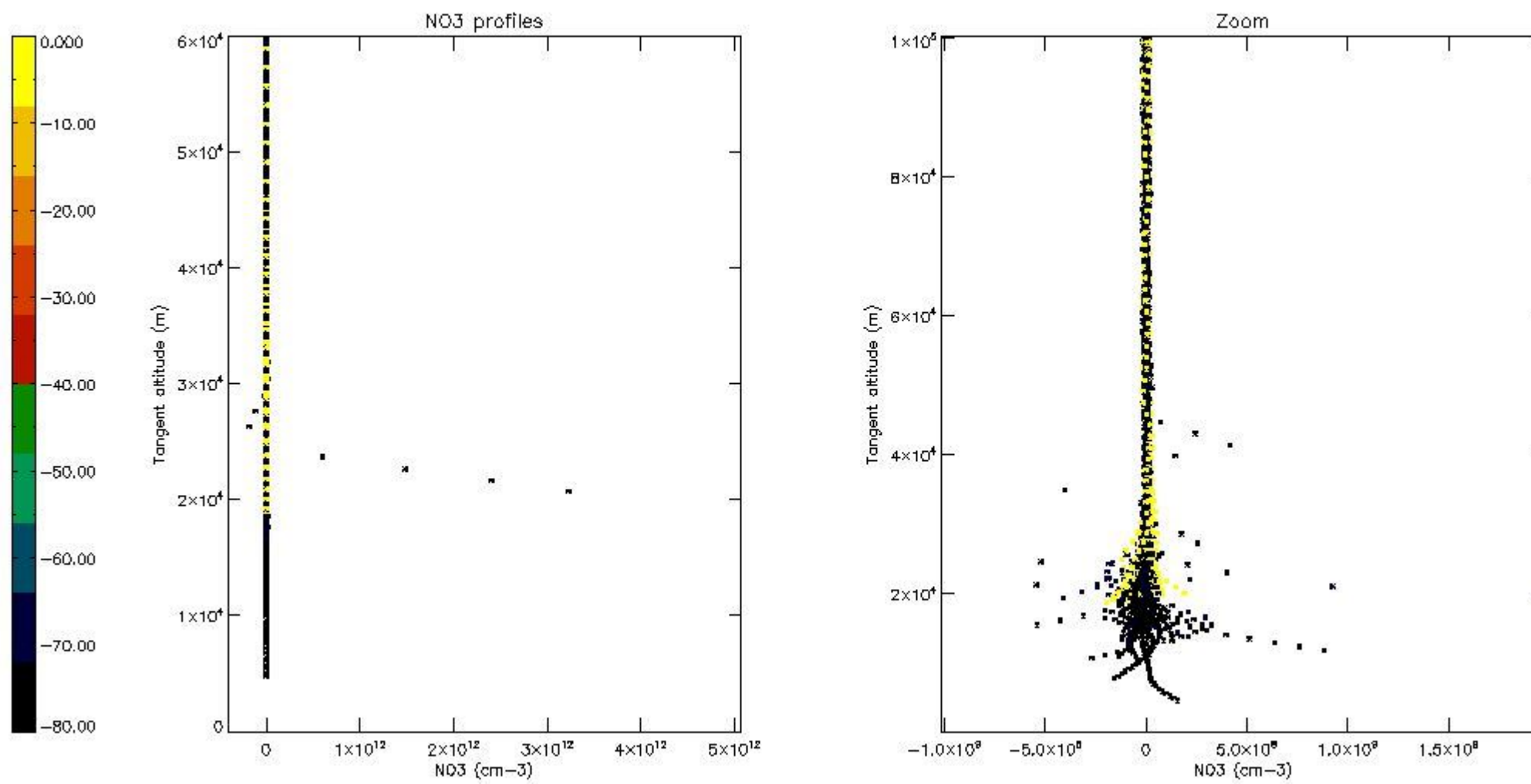
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.

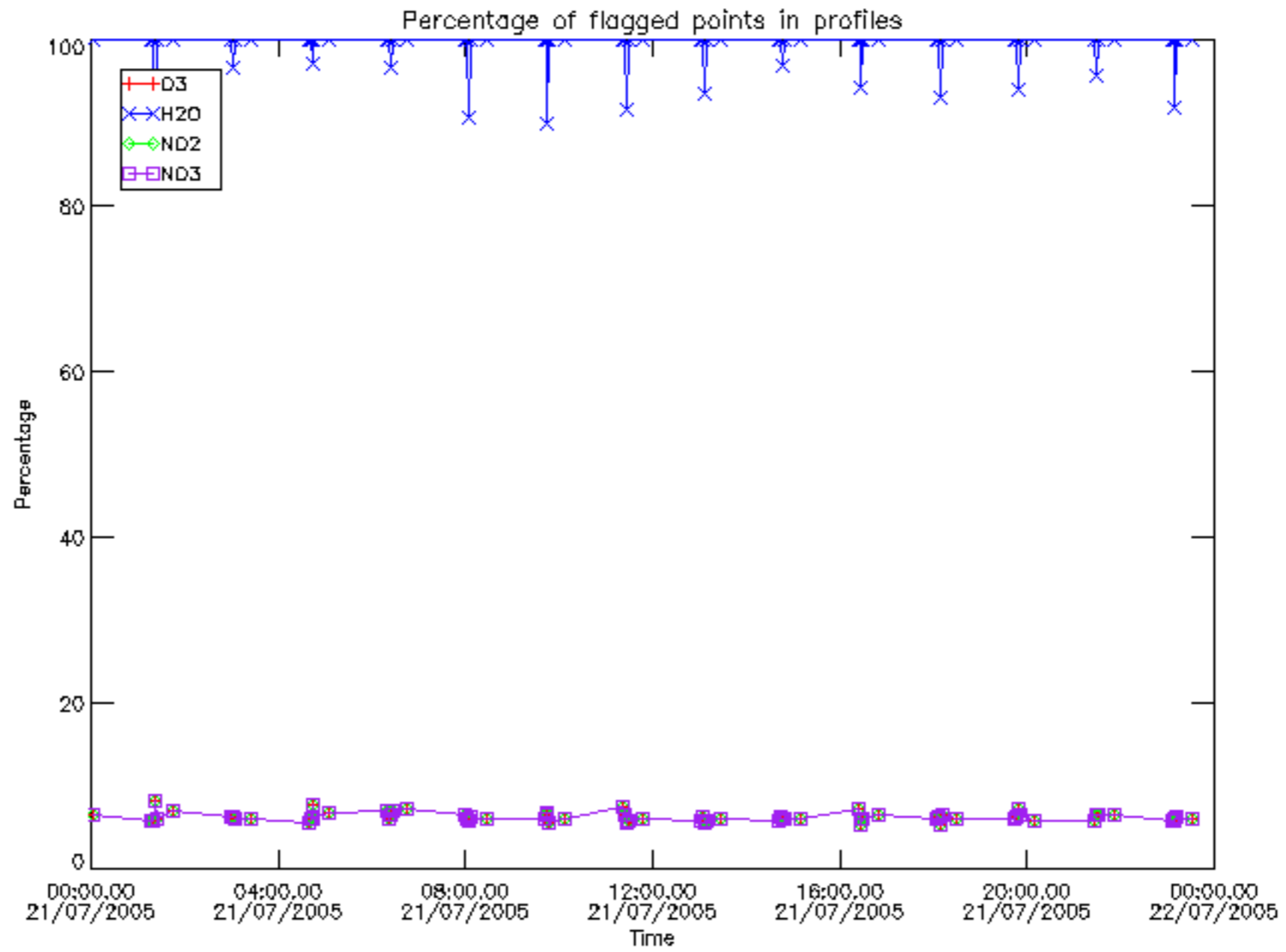


## 6. Auxiliary Data Files used for the production reported in section 2

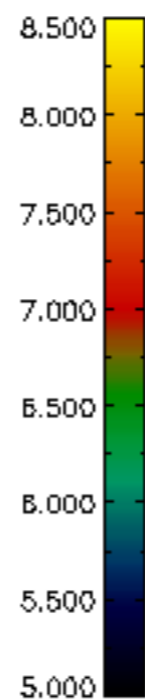
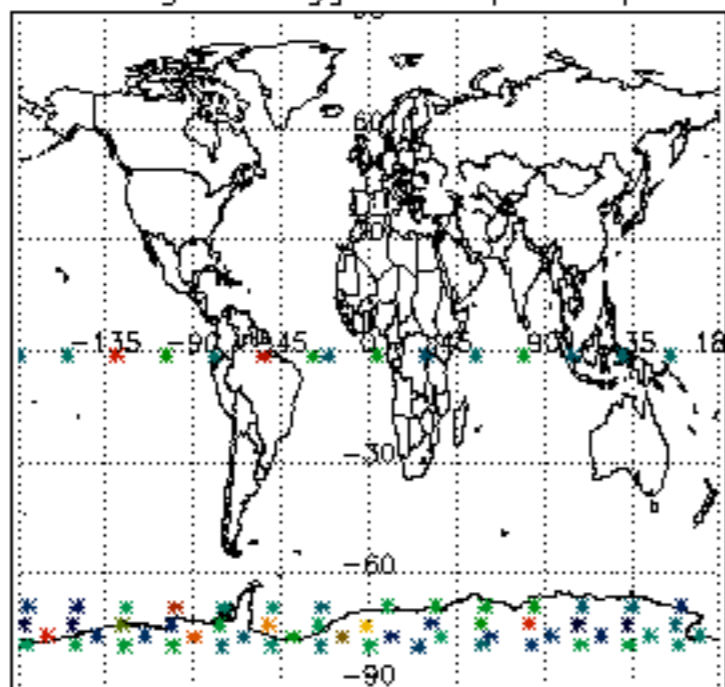
The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	21-JUL-2005 00:03:12
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	21-JUL-2005 00:03:12
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	21-JUL-2005 00:03:12

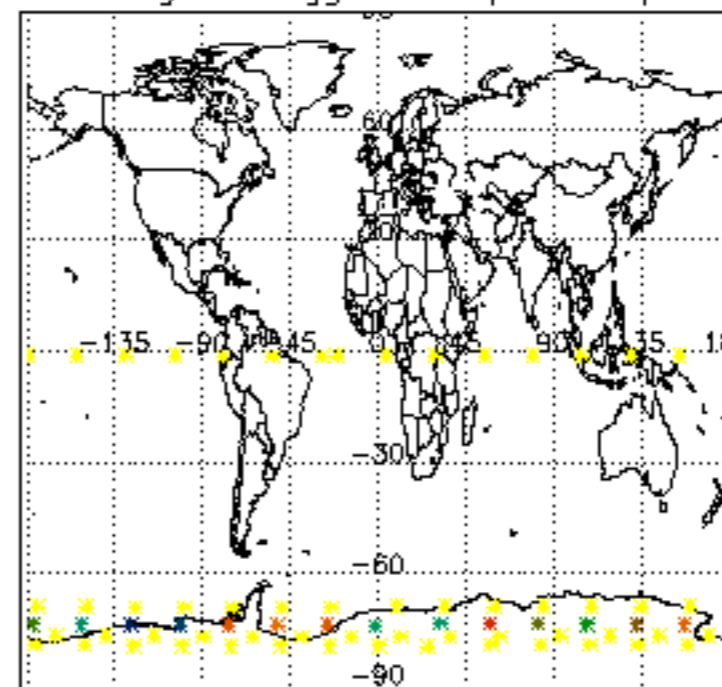




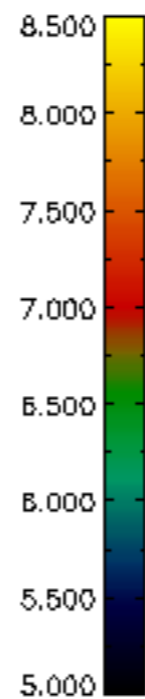
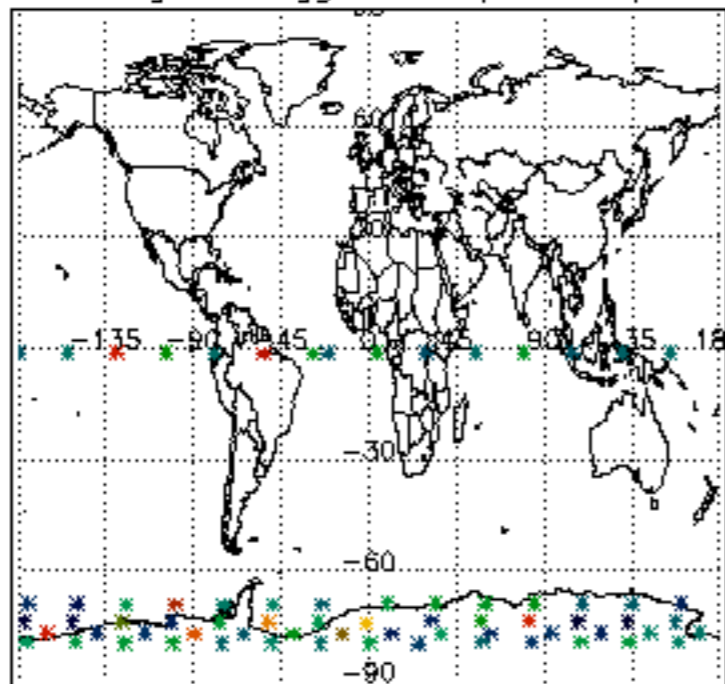
Percentage of flagged data per D3 profile



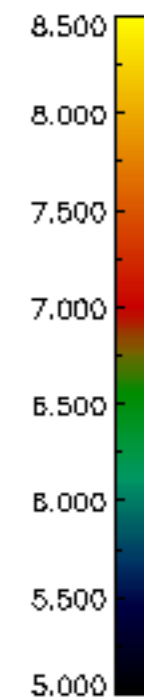
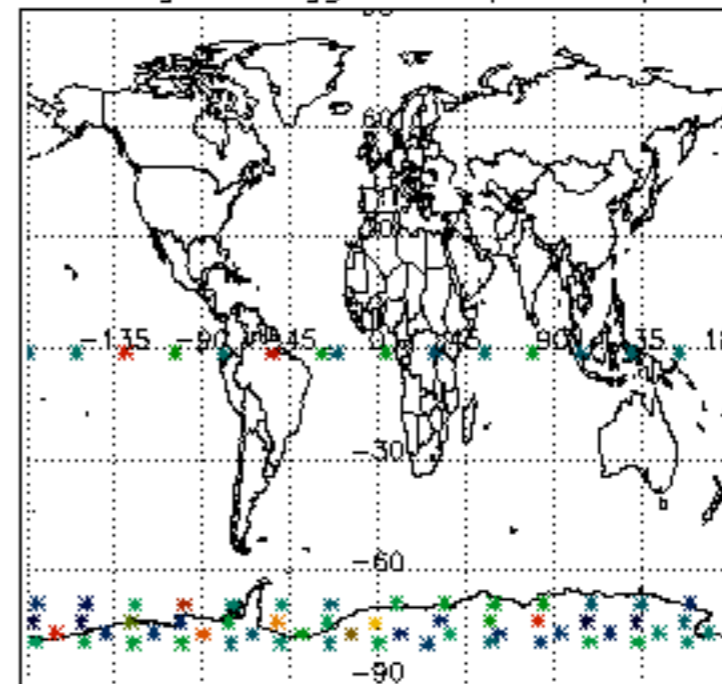
Percentage of flagged data per H2O profile

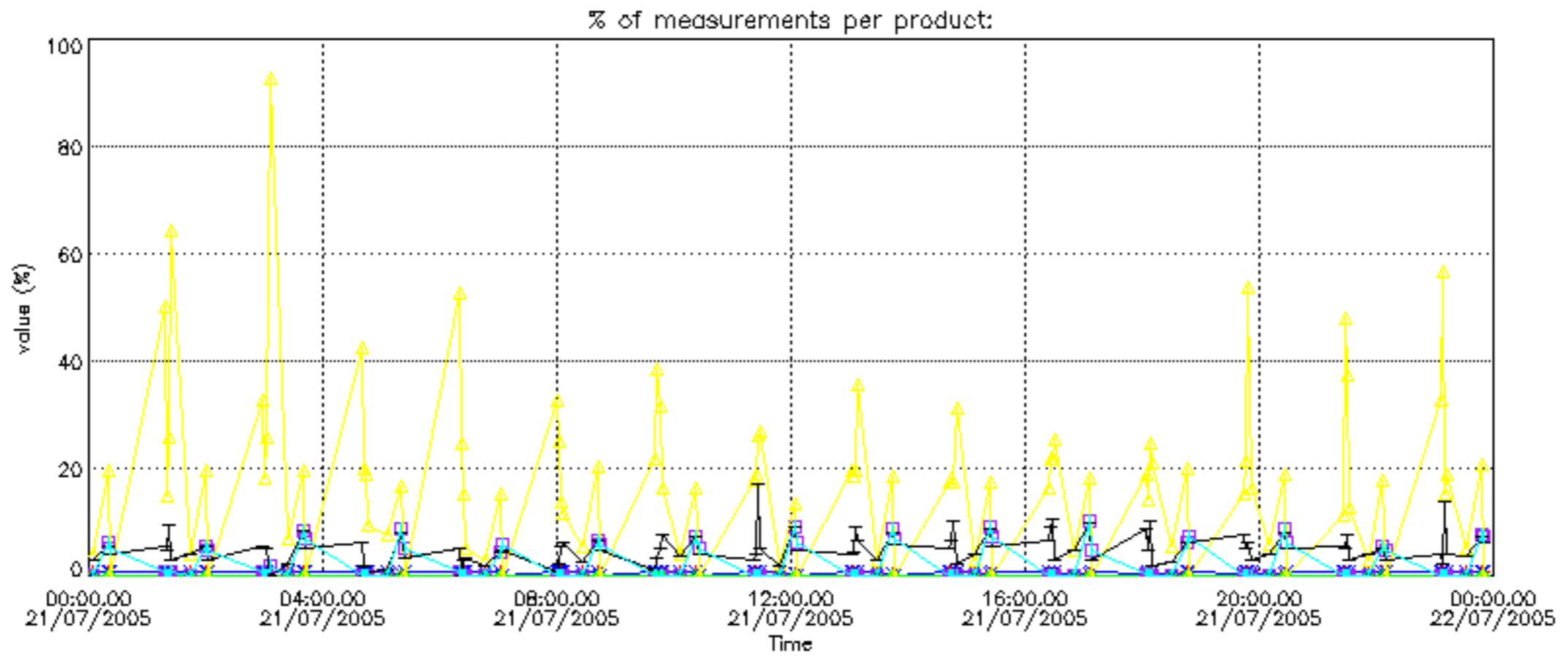


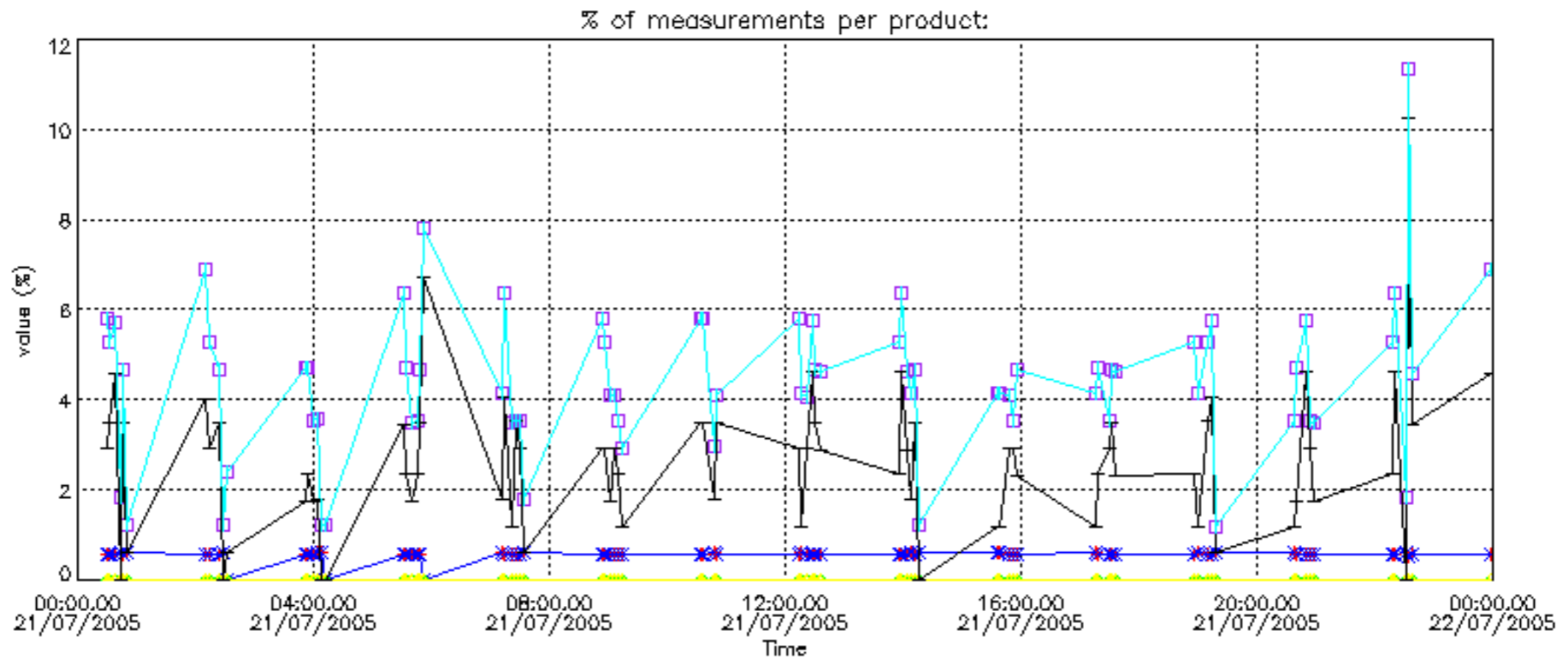
Percentage of flagged data per NO2 profile



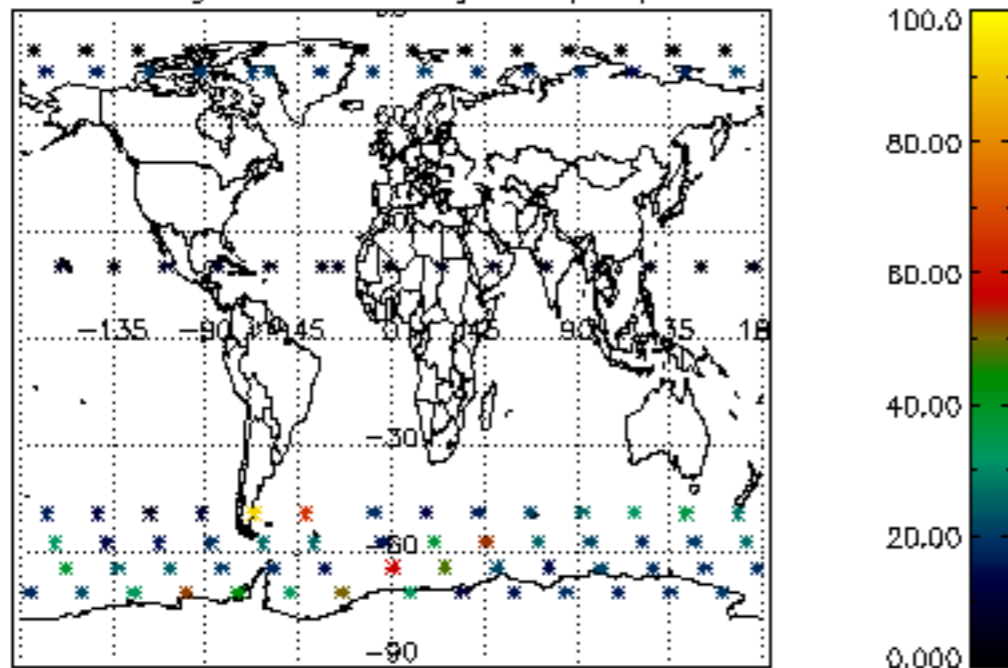
Percentage of flagged data per NO3 profile



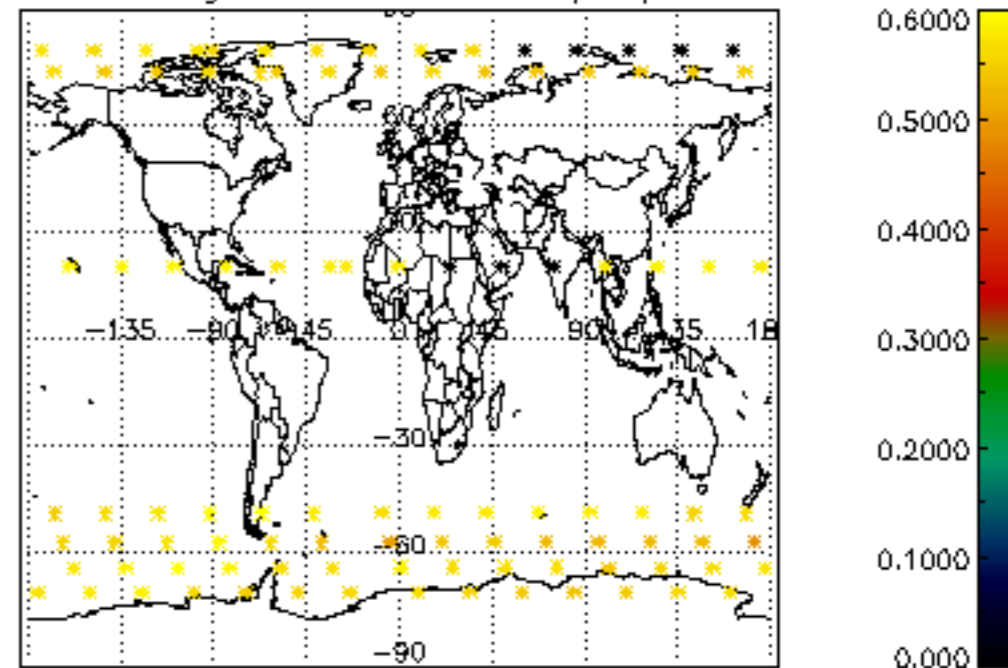




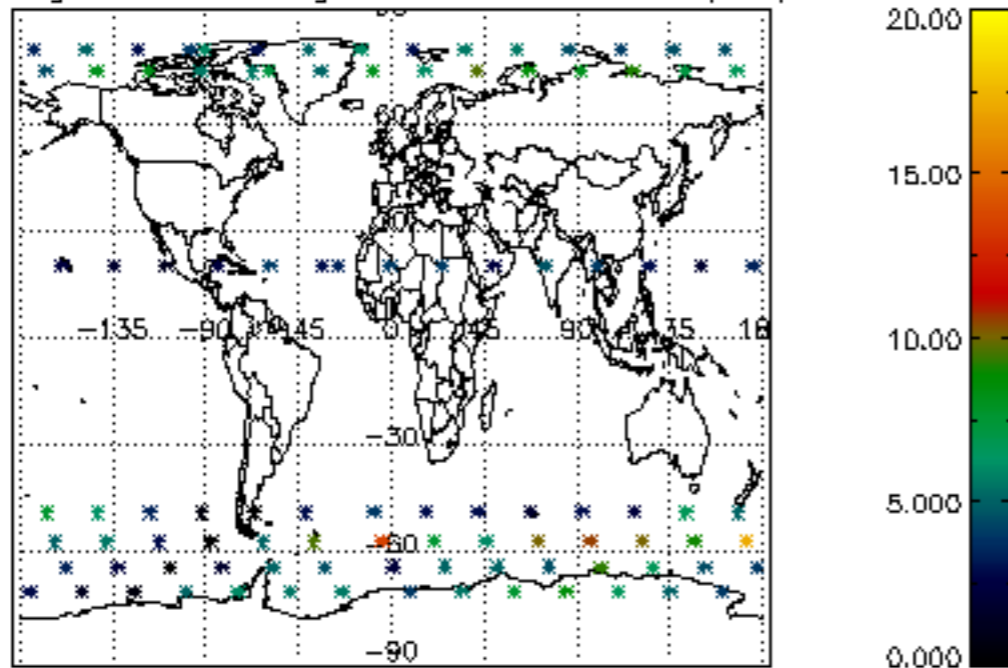
Percentage of cosmic ray hits per profile



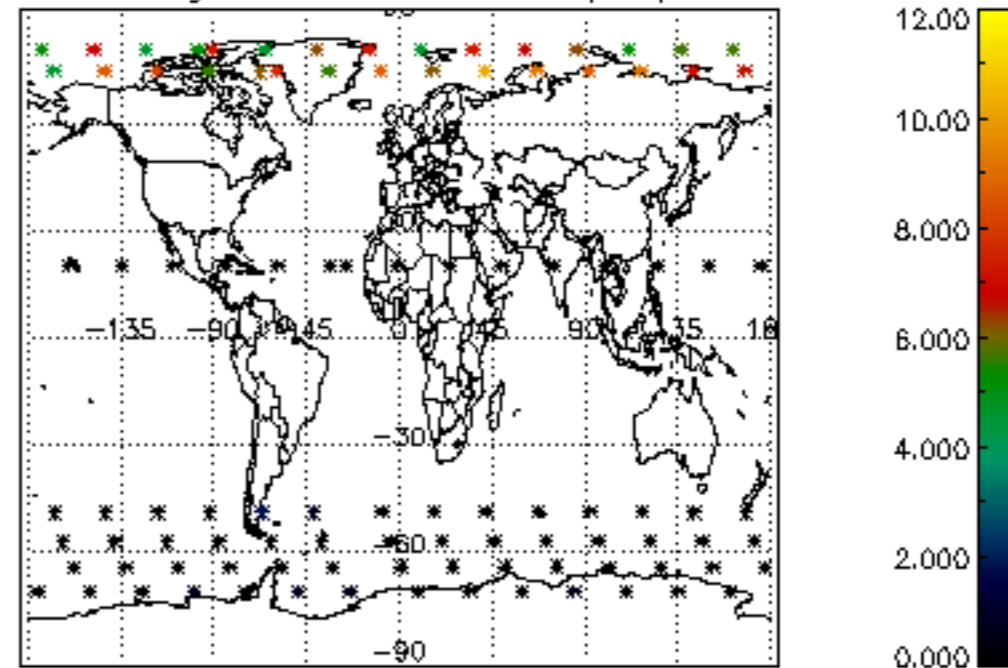
Percentage of datation errors per profile



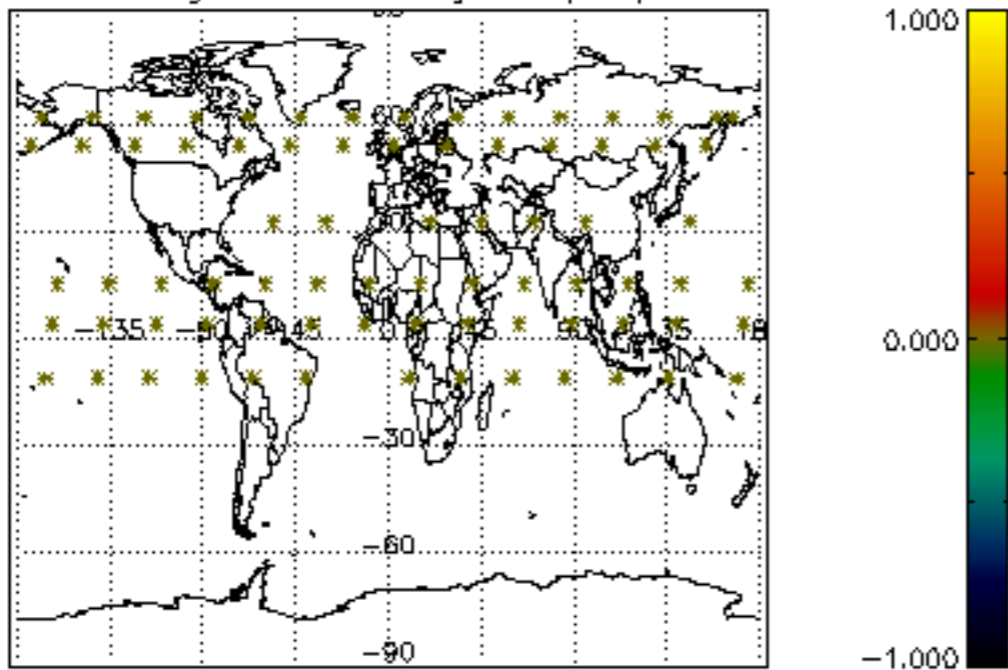
Percentage of star falling outside central band per profile



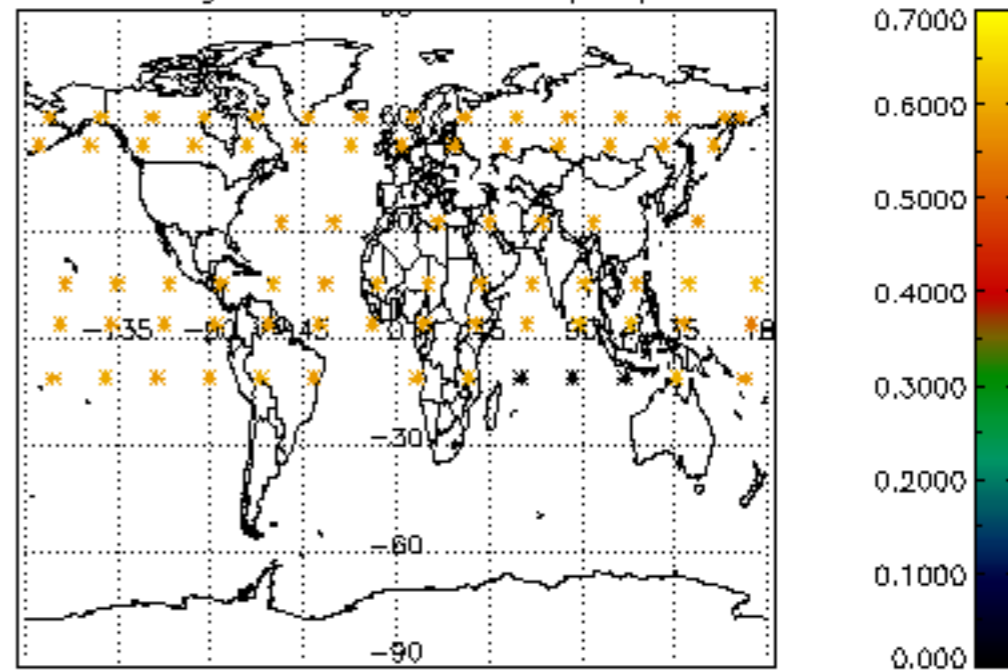
Percentage of saturation errors per profile



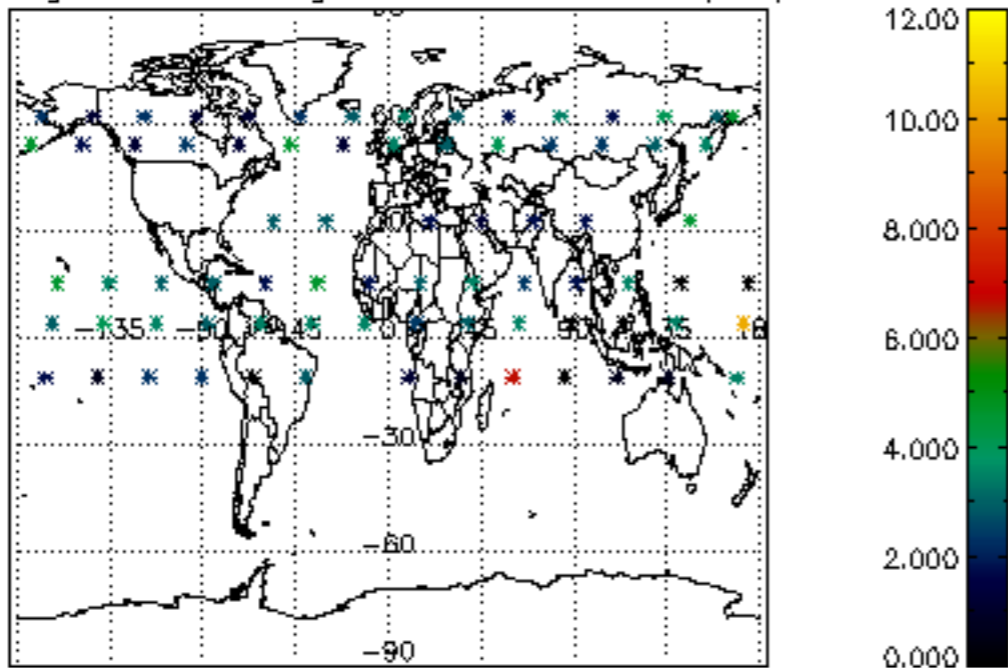
Percentage of cosmic ray hits per profile



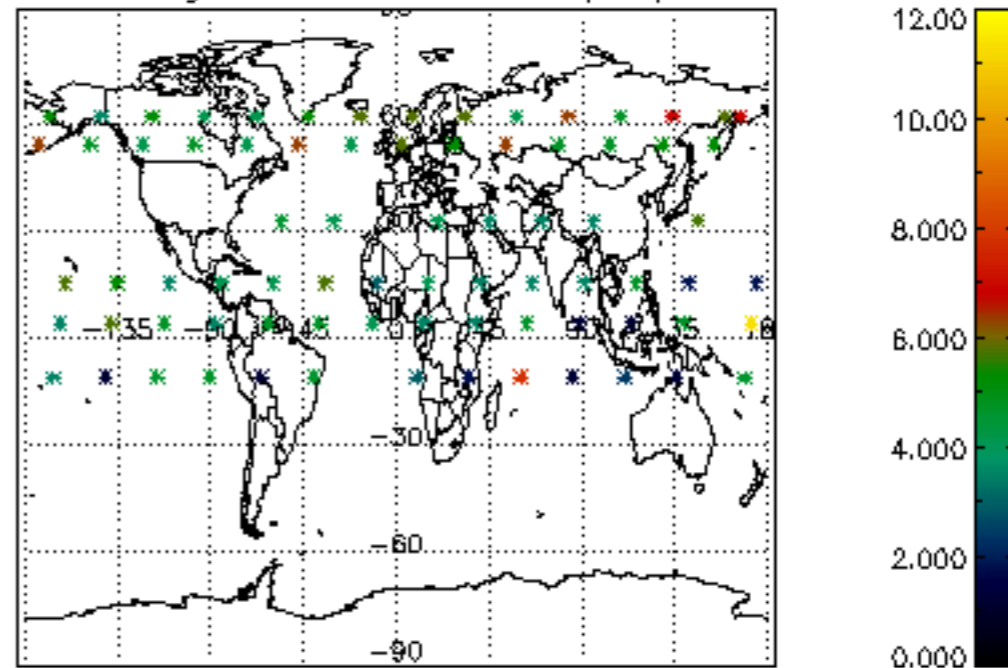
Percentage of datation errors per profile

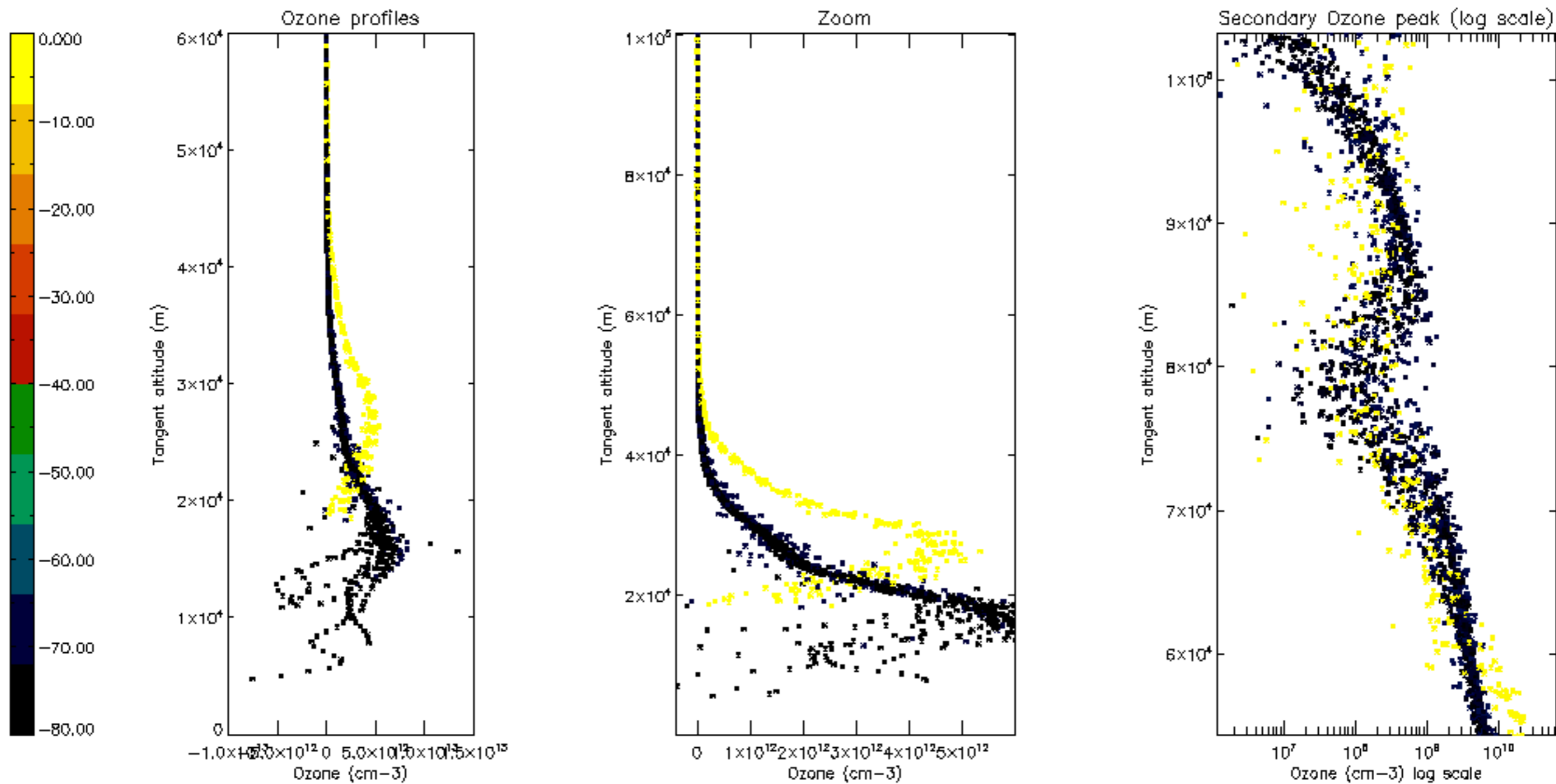


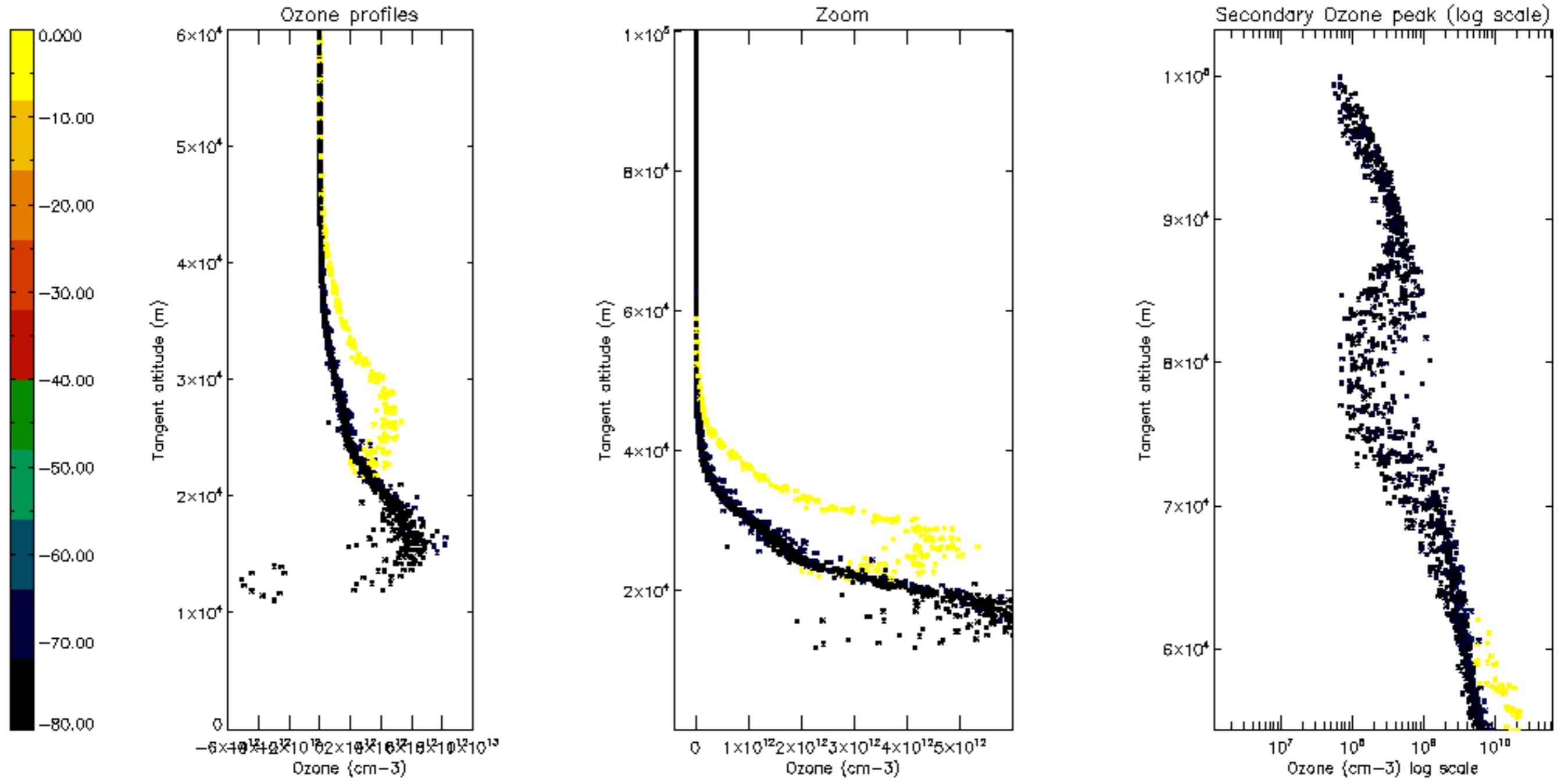
Percentage of star falling outside central band per profile



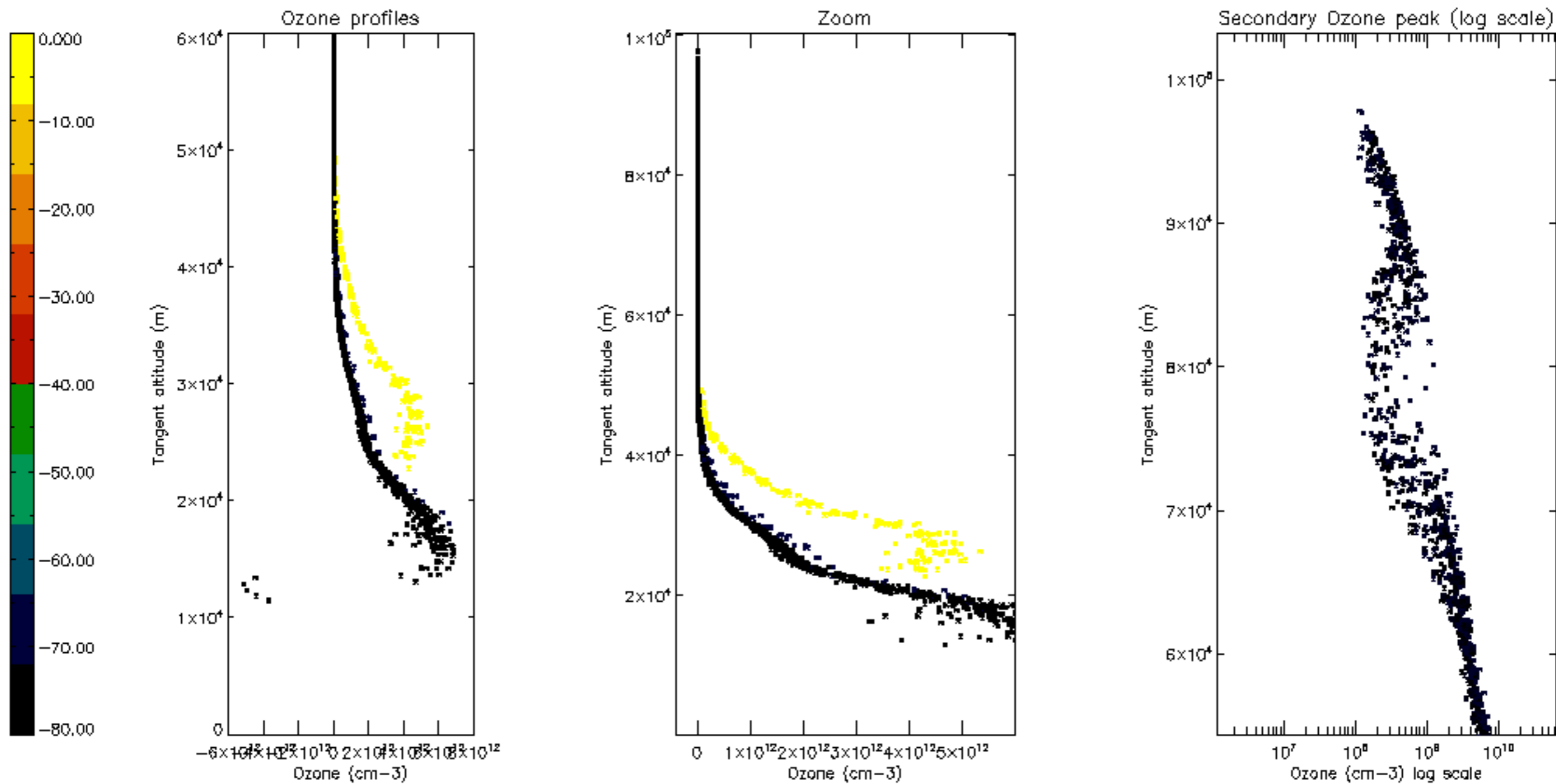
Percentage of saturation errors per profile

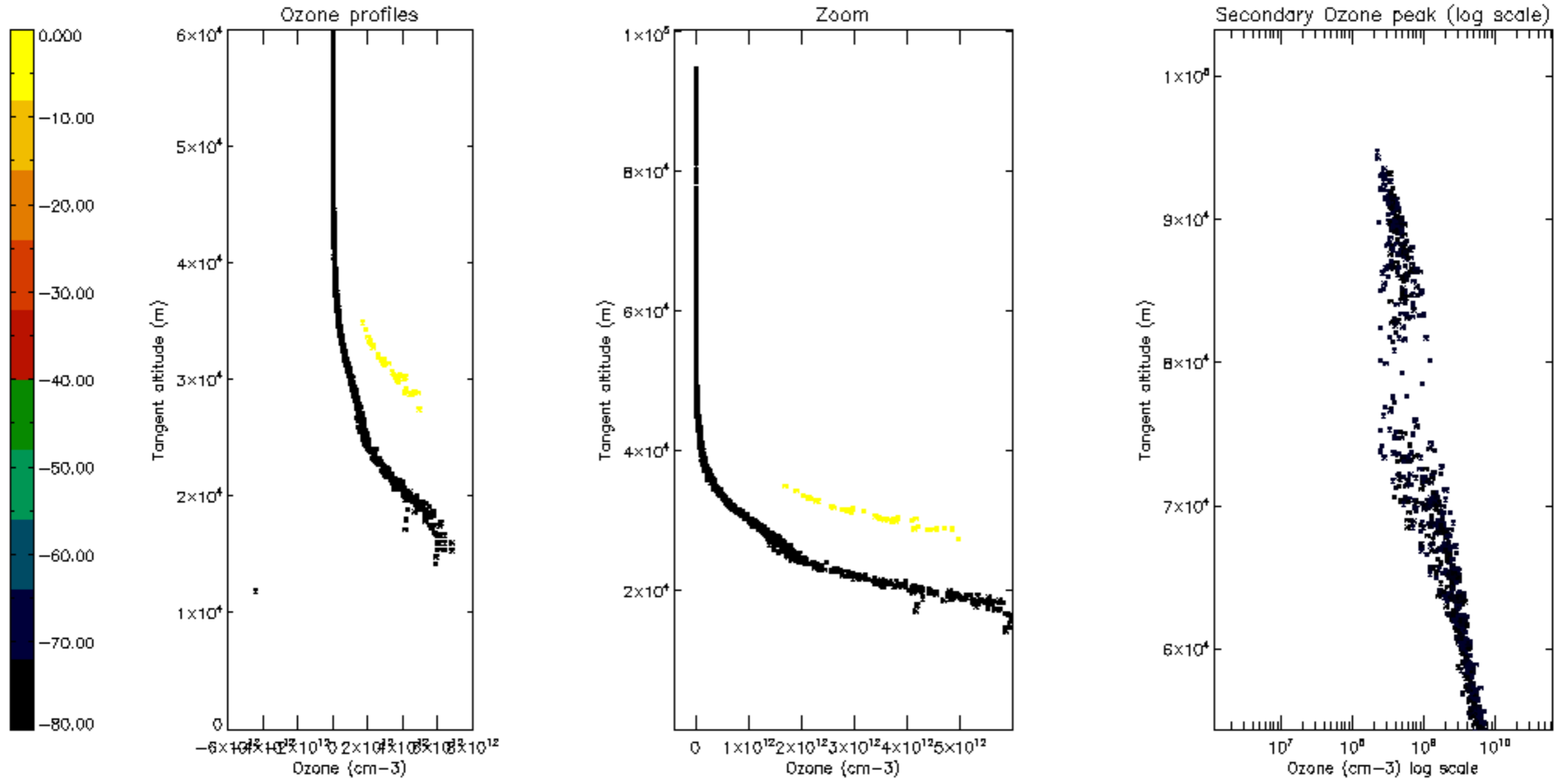


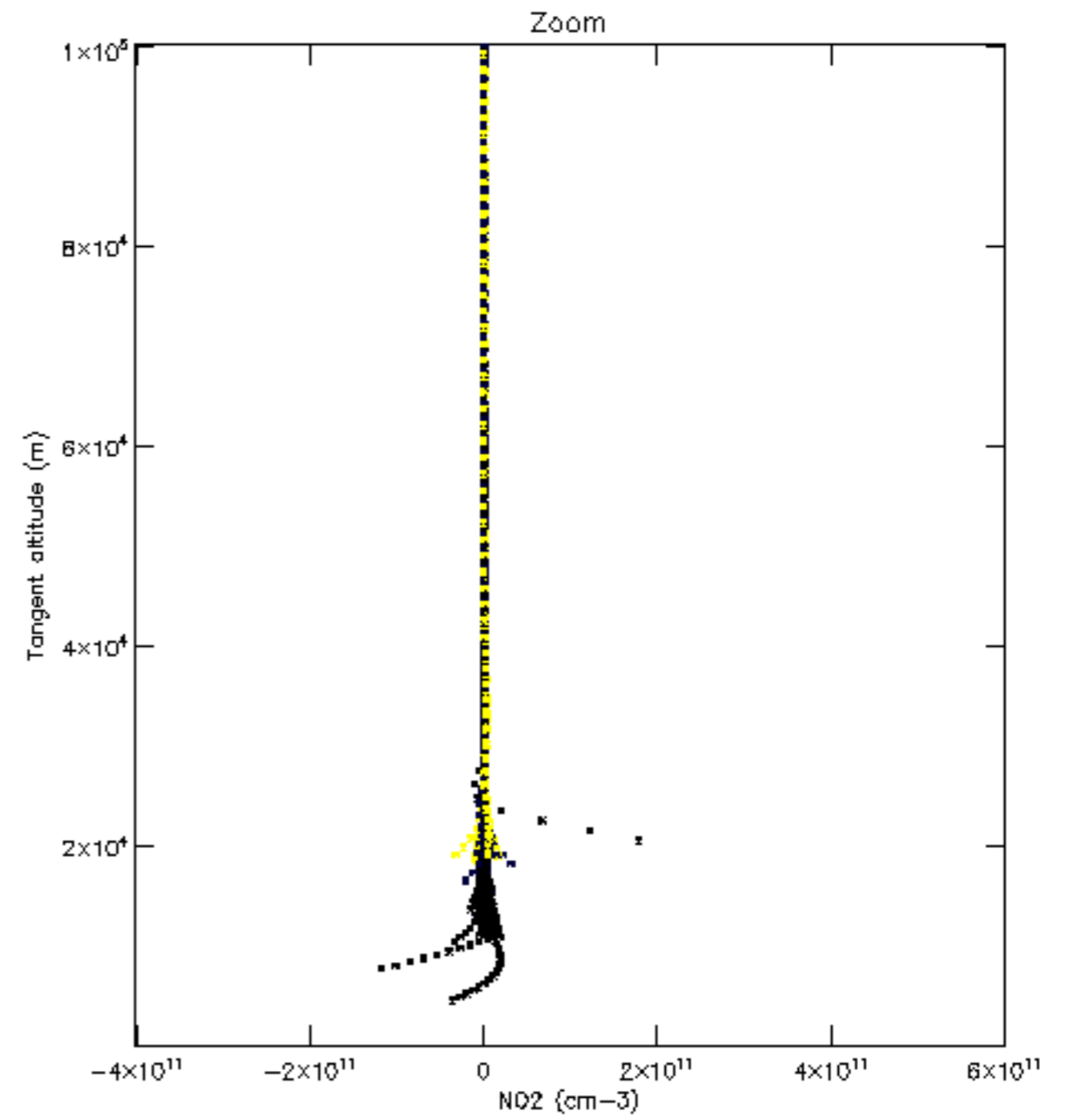
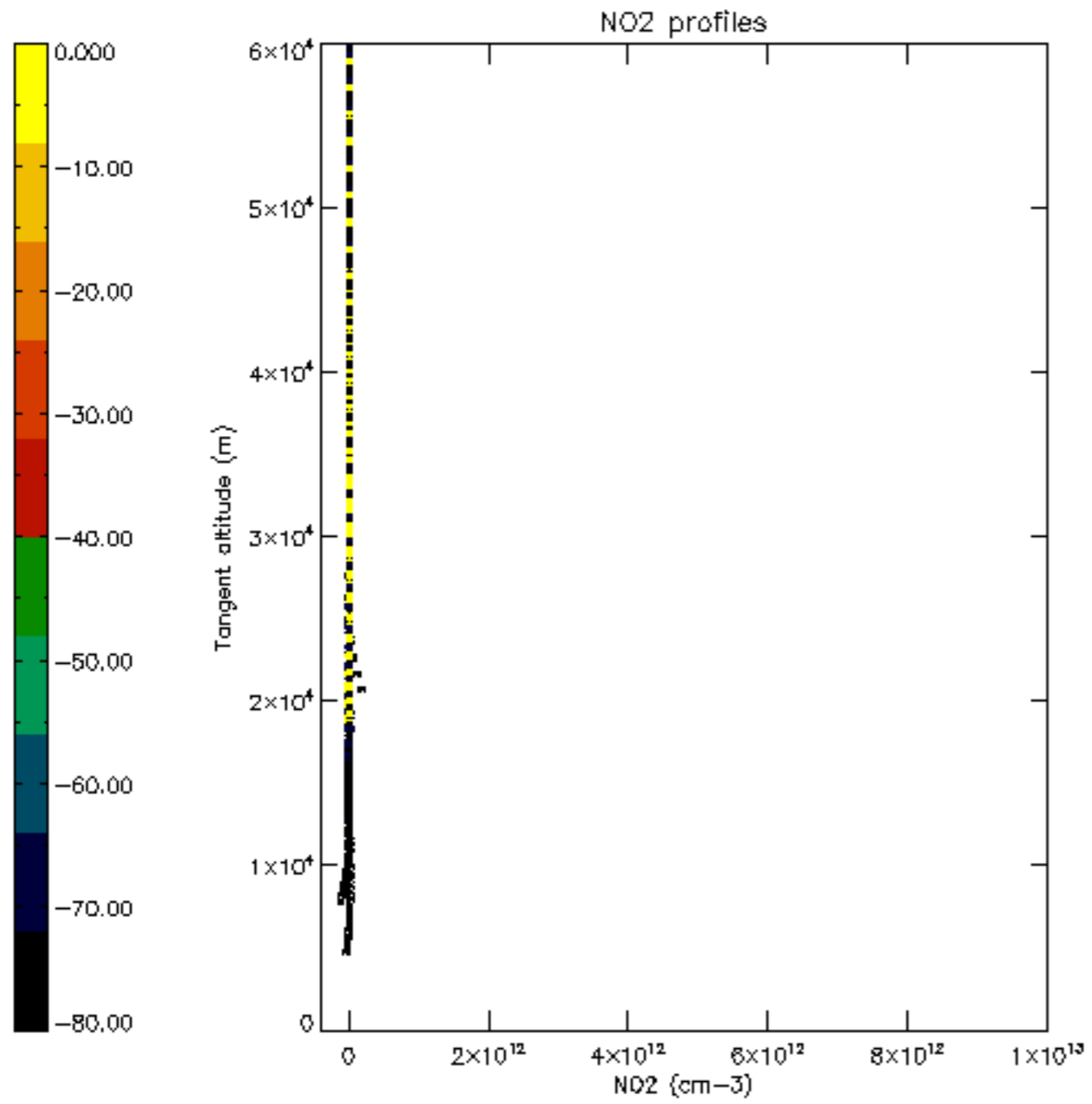


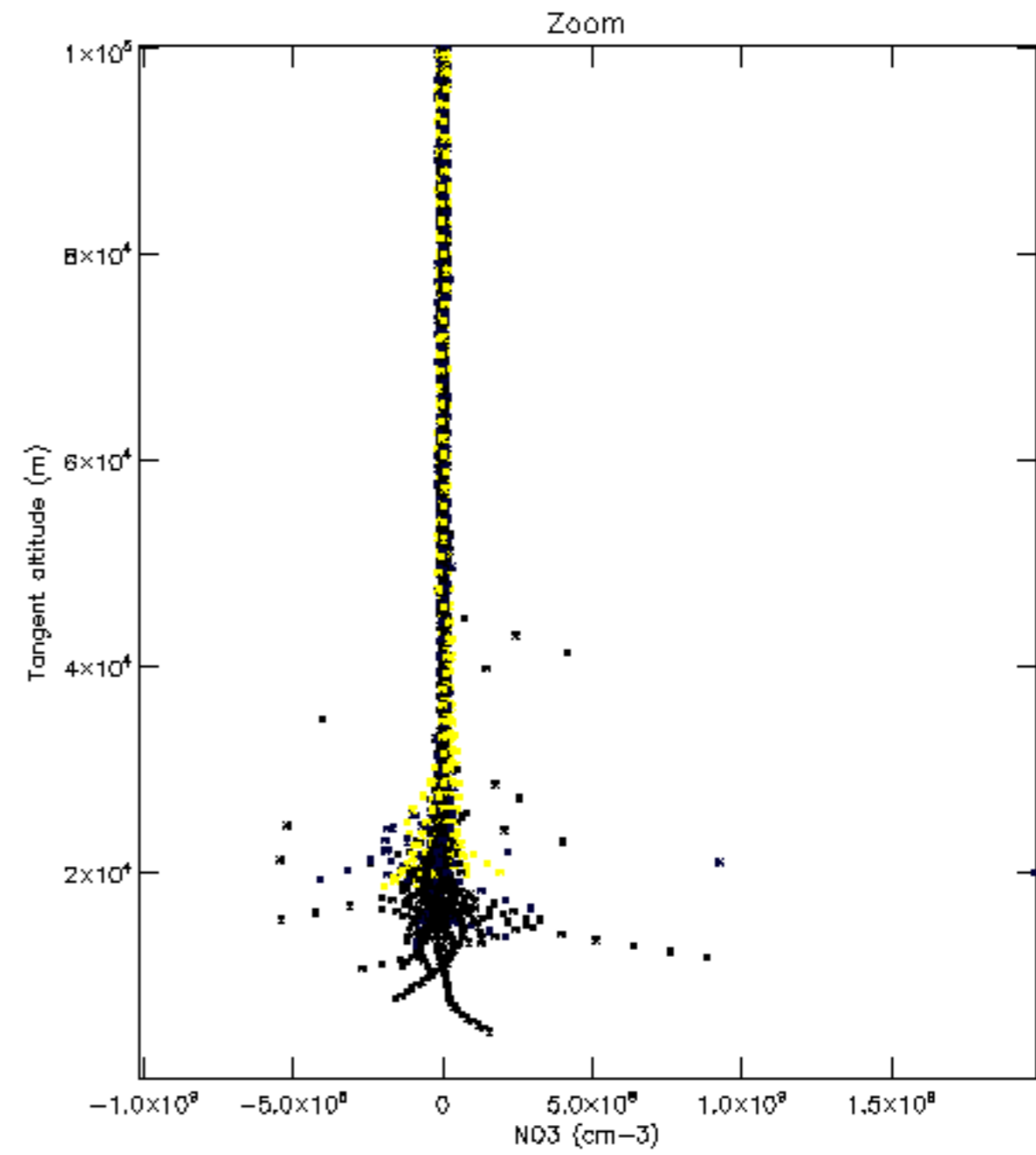
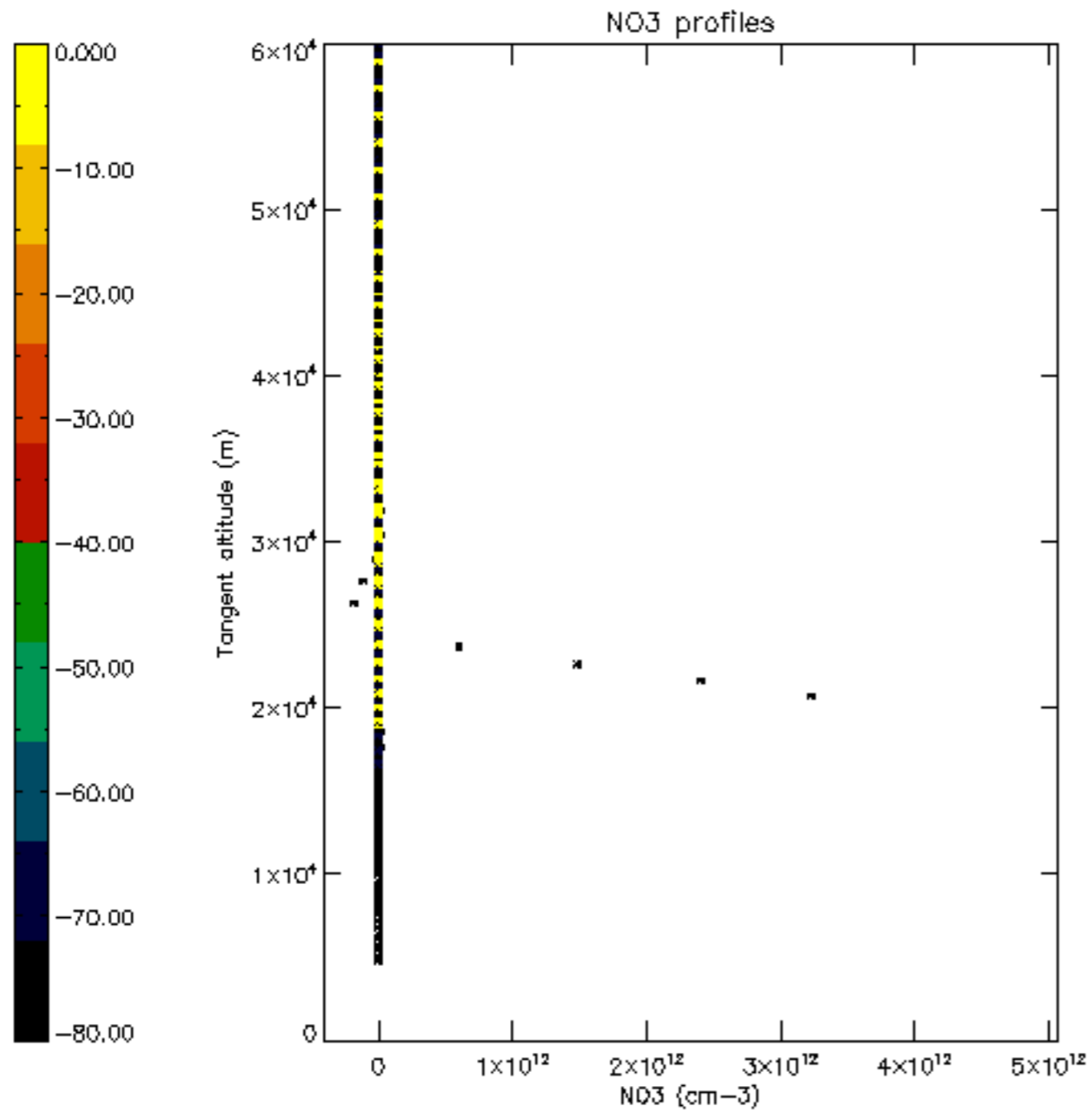


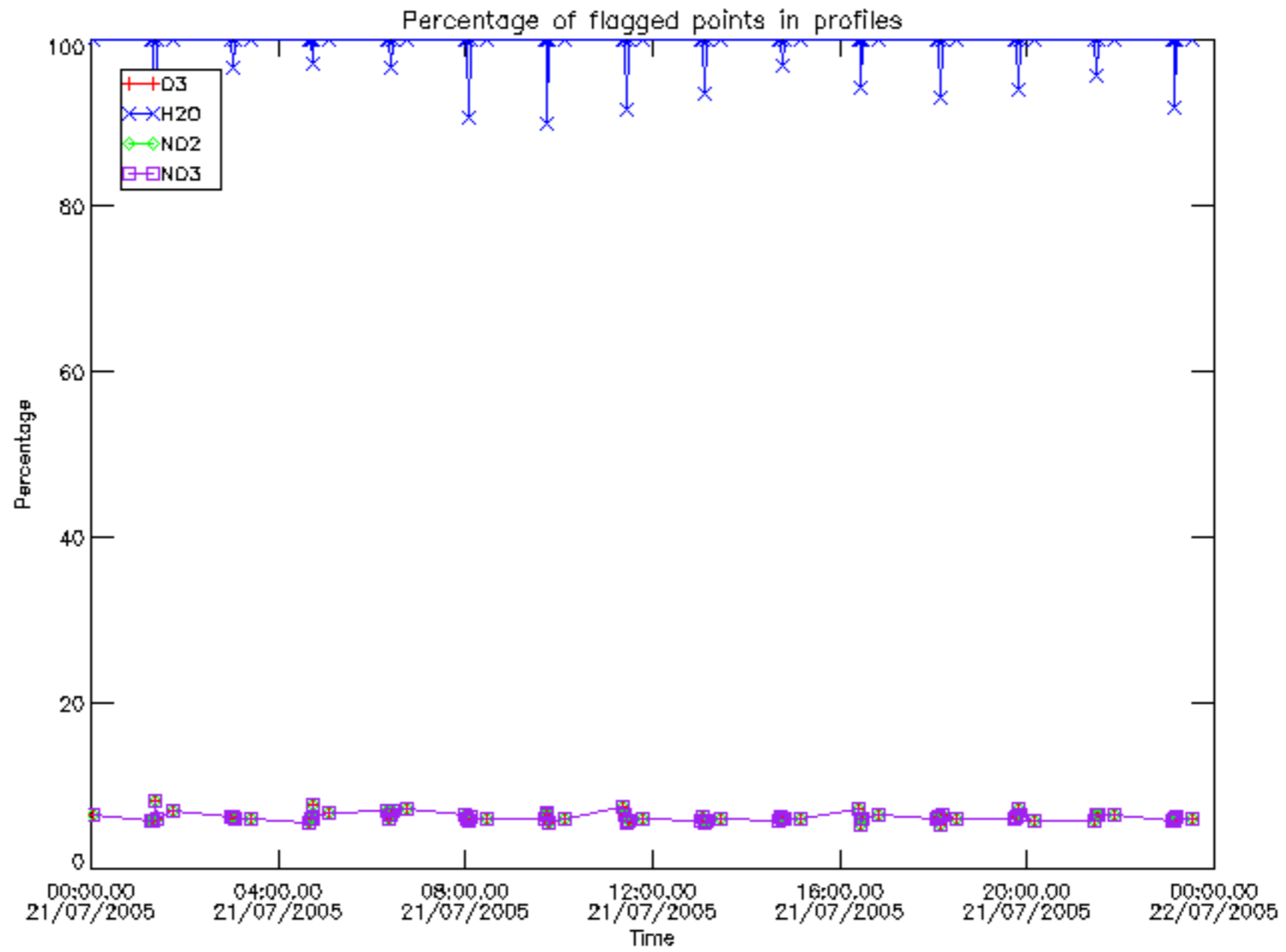




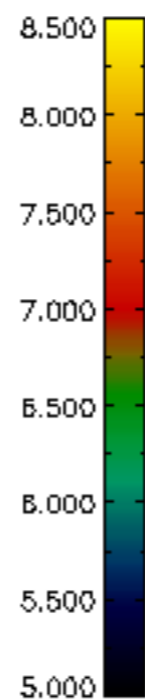
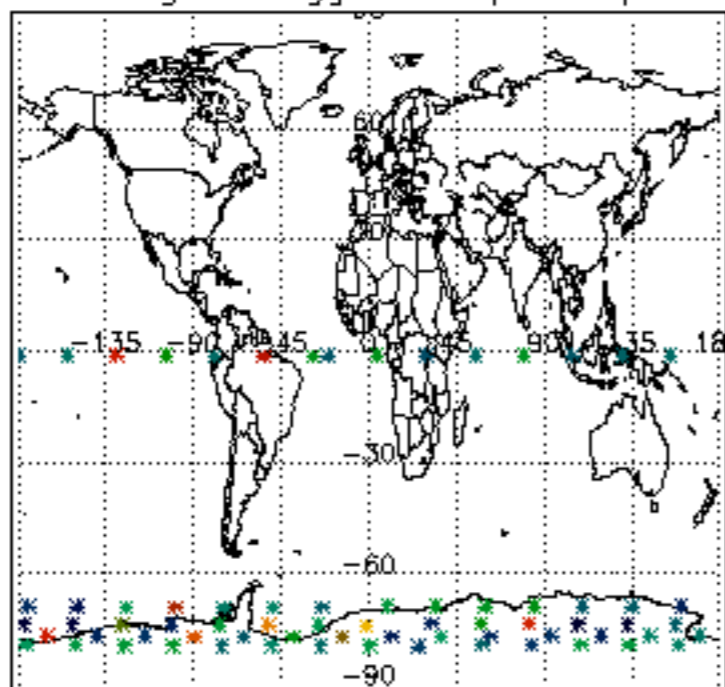




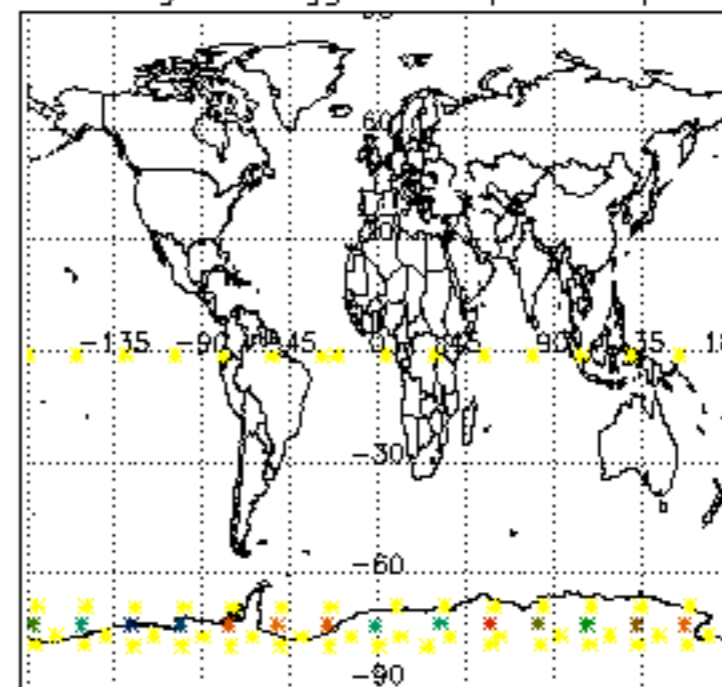




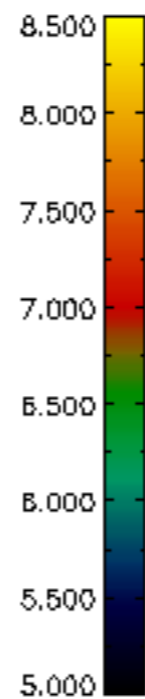
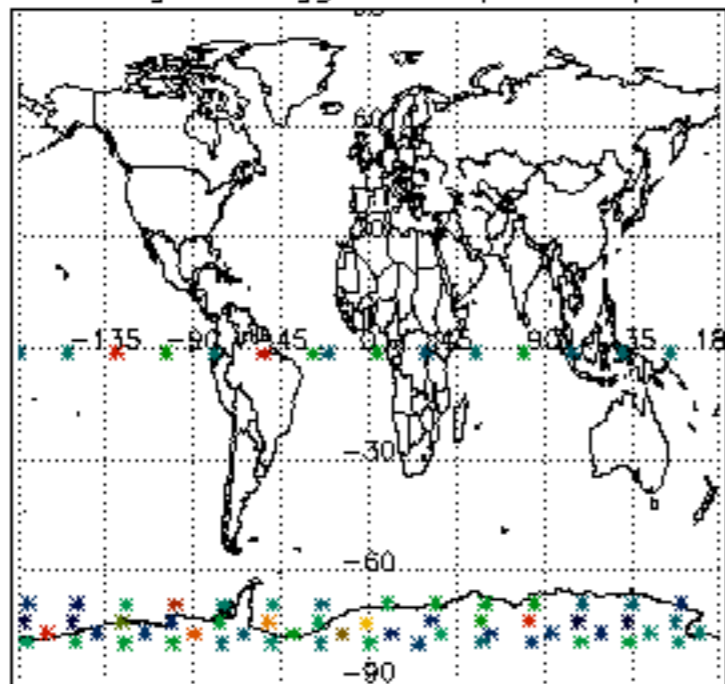
Percentage of flagged data per D3 profile



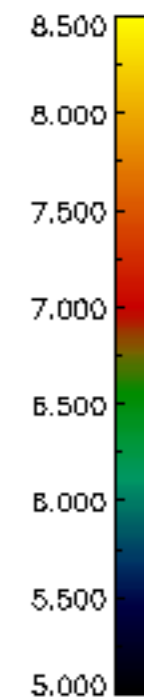
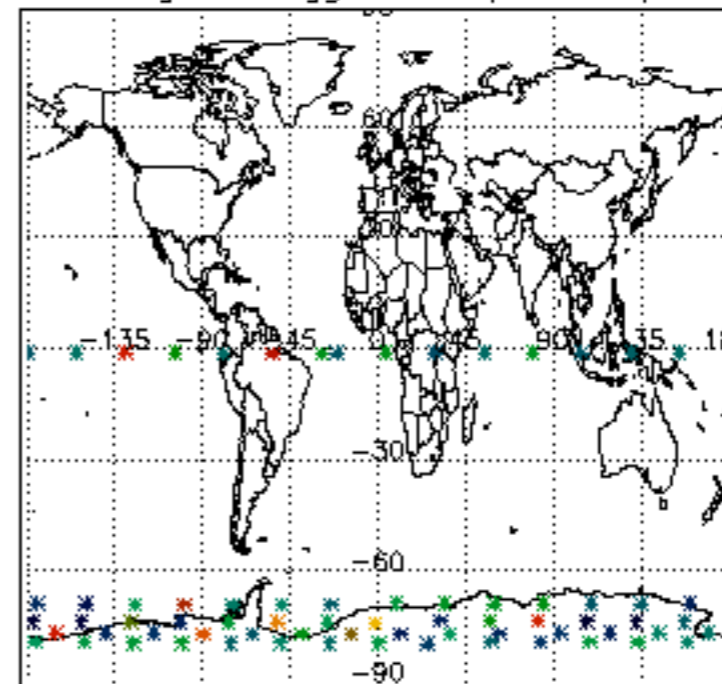
Percentage of flagged data per H2O profile

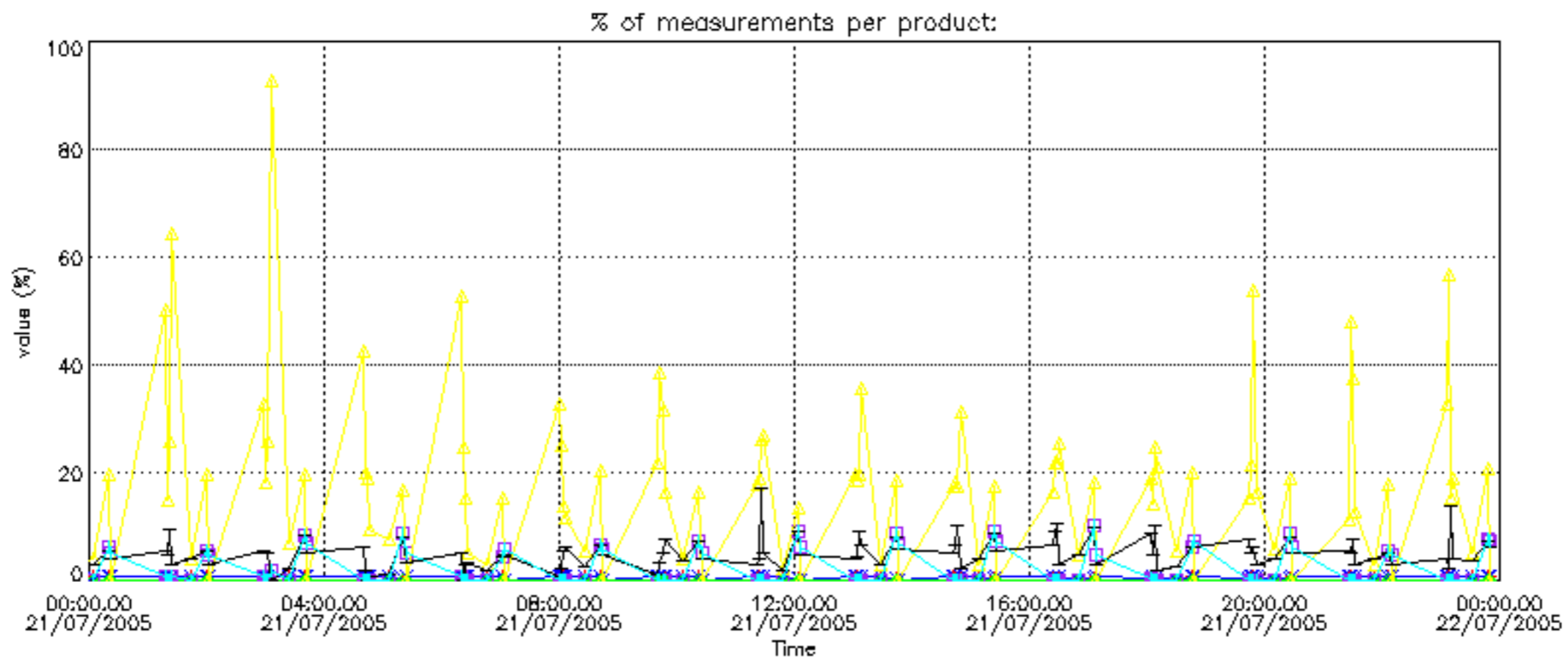


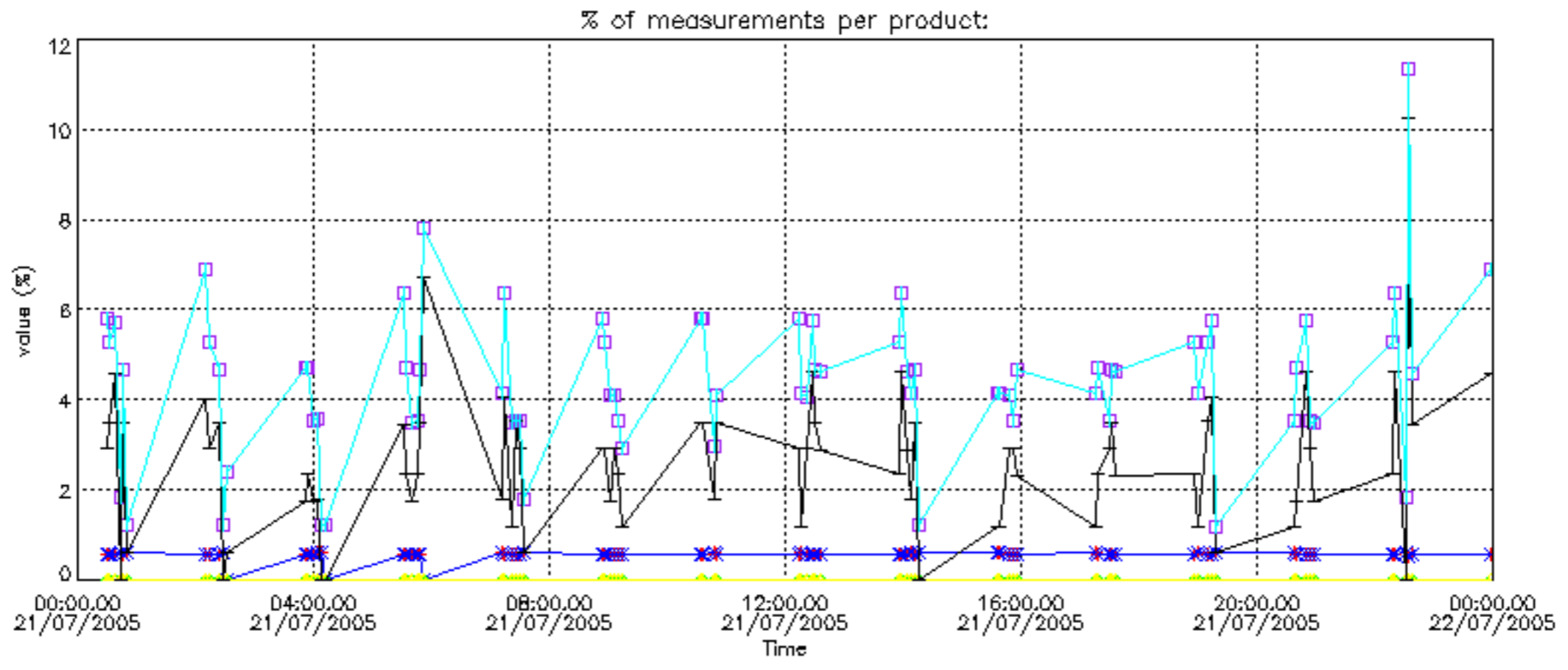
Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

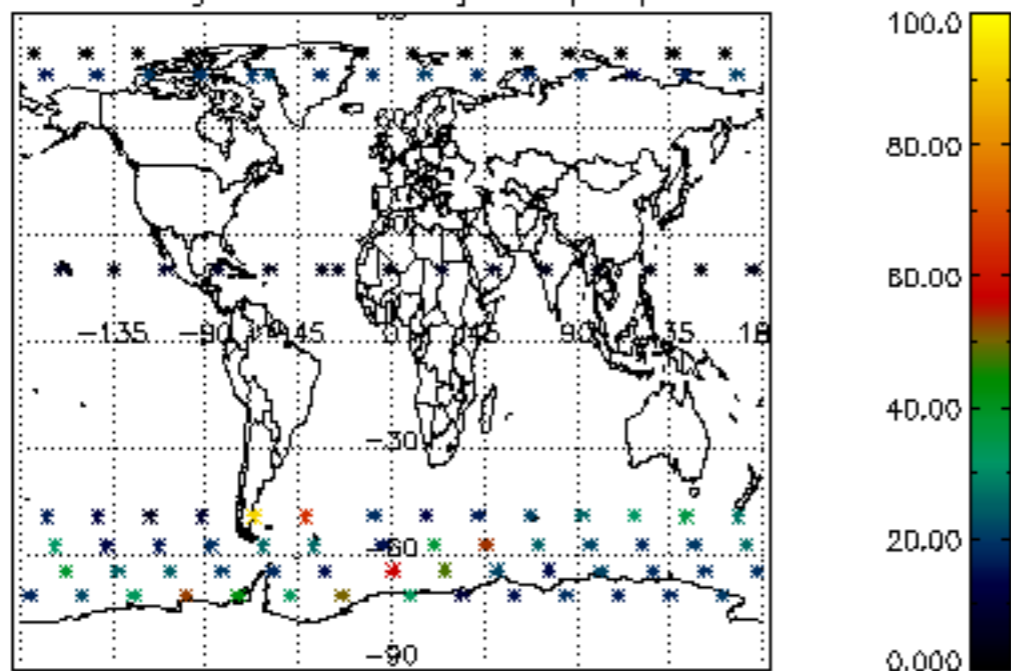




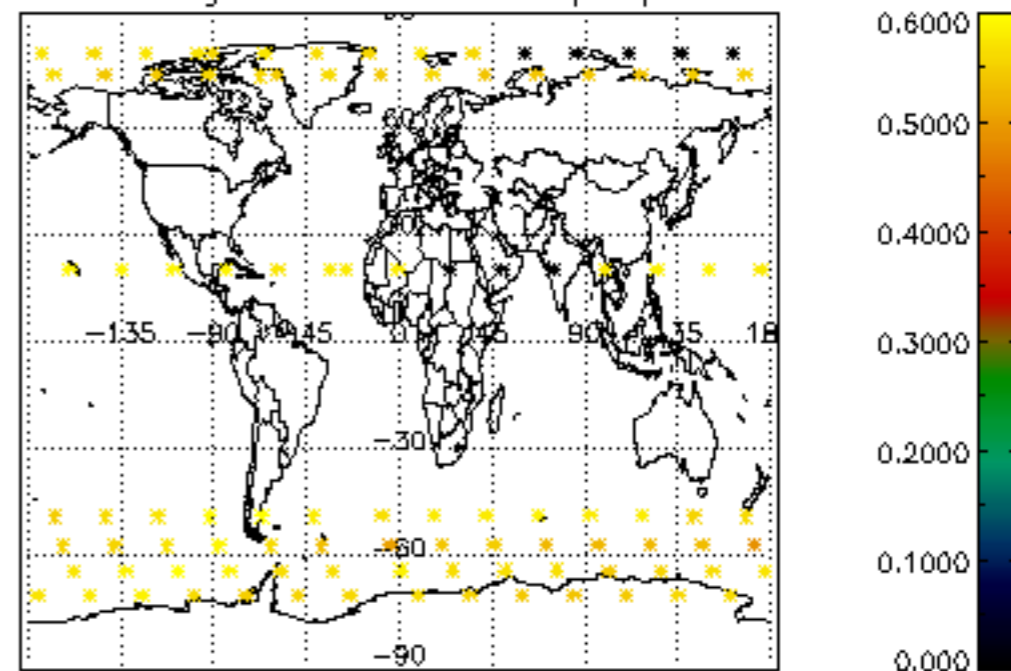




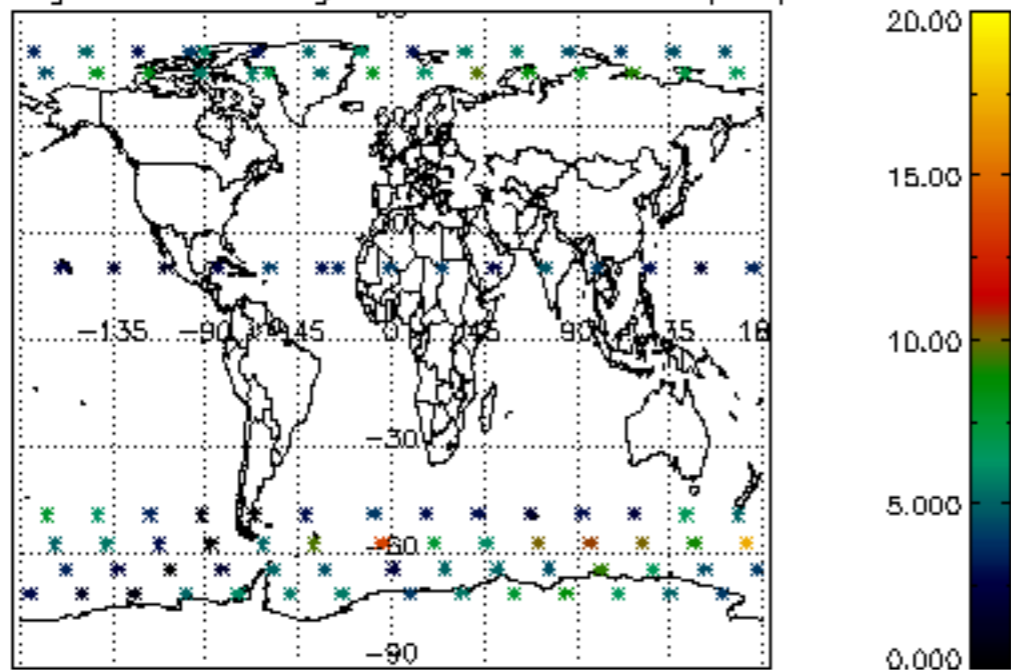
Percentage of cosmic ray hits per profile



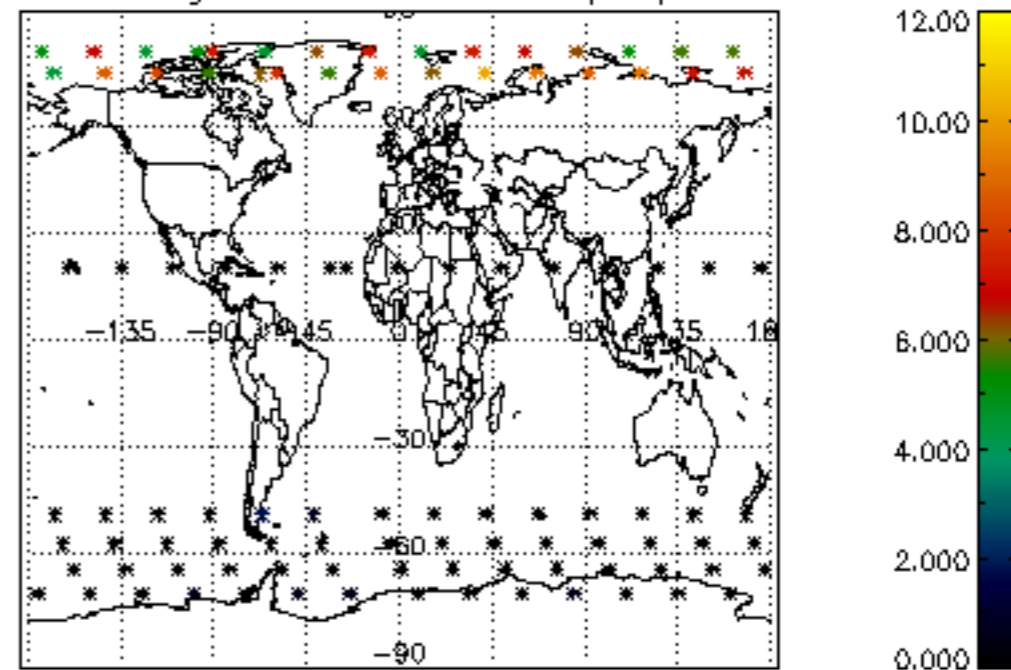
Percentage of datation errors per profile



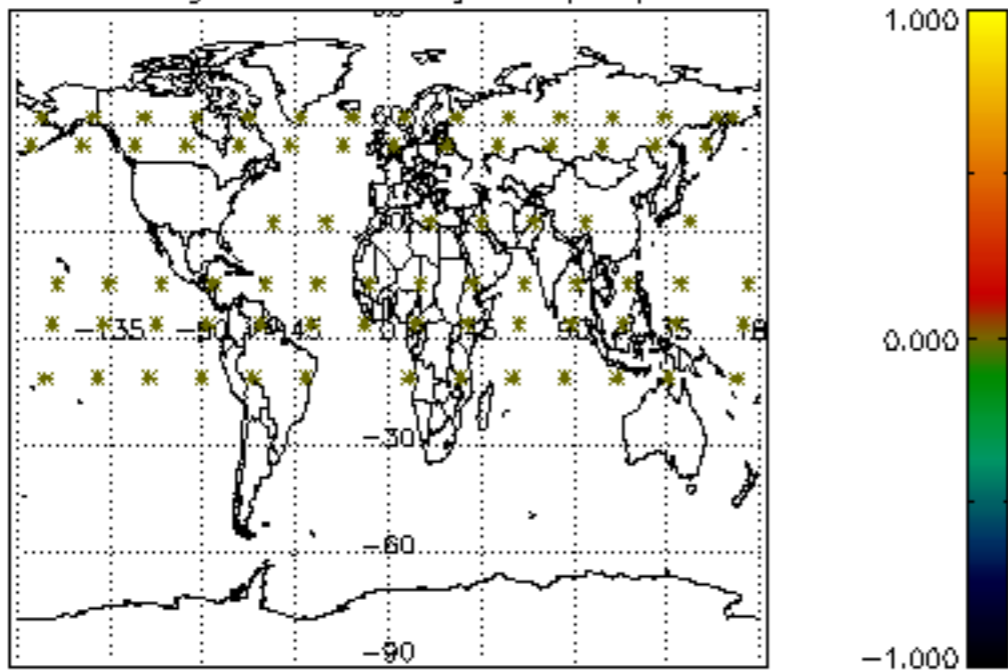
Percentage of star falling outside central band per profile



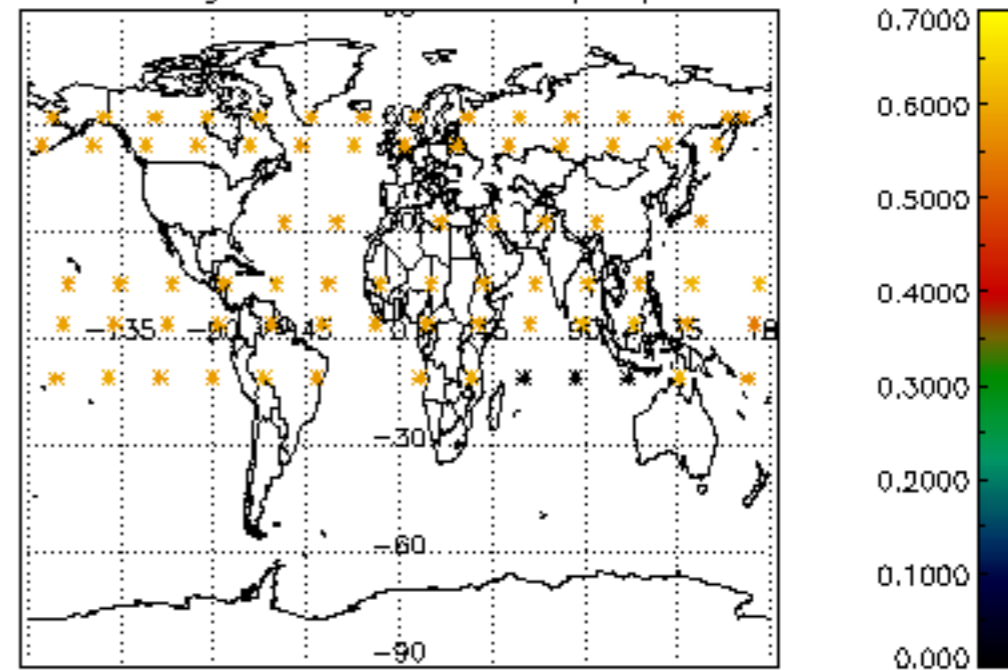
Percentage of saturation errors per profile



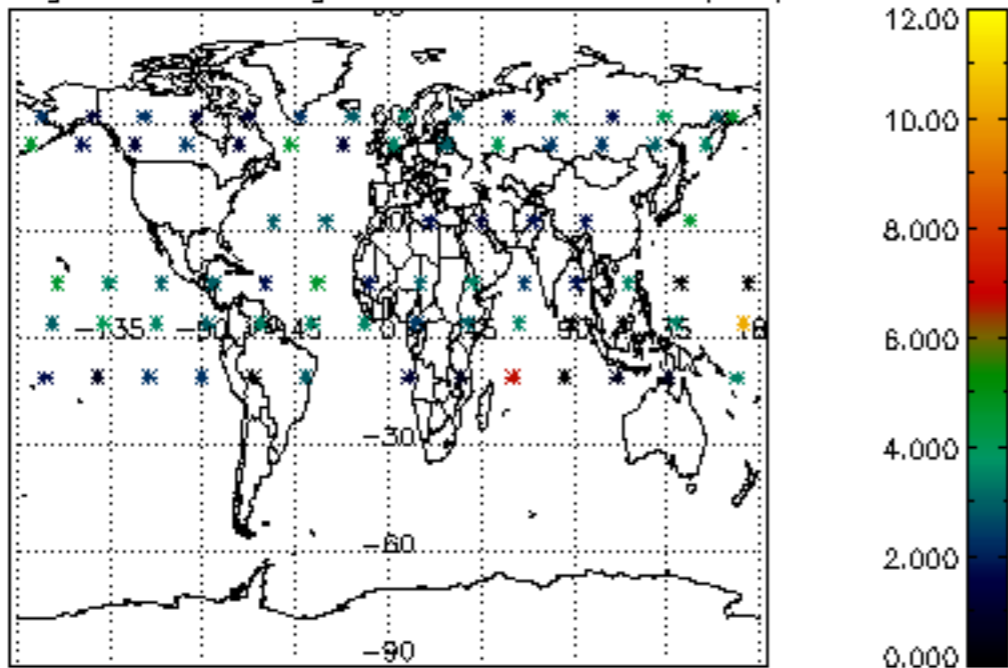
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

