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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	26APR2013 09:39:45
Data source version	GOMOS/6.01
Start time of products	21-05-2009 (21MAY2009 00:00:00)
Stop time of products	22-05-2009 (22MAY2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	227
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__2PRFIN20090521_001315_000000372079_00131_37760_6547.N1	21-MAY-2009 00:13:15	Straylight	37.000	40	The Sco	1.8590	7100.0	74	37760	No
2	GOM_NL__2PRFIN20090521_001506_000000402079_00131_37760_6548.N1	21-MAY-2009 00:15:06	Straylight	39.500	25	35Lam Sco	1.6200	28000.	79	37760	No
3	GOM_NL__2PRFIN20090521_001714_000000372079_00131_37760_6549.N1	21-MAY-2009 00:17:14	Twilight	36.500	75	26Eps Sco	2.2910	4250.0	73	37760	No
4	GOM_NL__2PRFIN20090521_002010_000000622079_00131_37760_6550.N1	21-MAY-2009 00:20:10	Twilight	62.000	16	21Alp Sco	1.0200	3000.0	124	37760	No
5	GOM_NL__2PRFIN20090521_002336_000000362079_00131_37760_6551.N1	21-MAY-2009 00:23:36	Twilight	36.000	86	35Eta Oph	2.4300	10200.	72	37760	No
6	GOM_NL__2PRFIN20090521_002541_000000512079_00131_37760_6552.N1	21-MAY-2009 00:25:41	Bright	51.000	98	13Zet Oph	2.5710	30000.	102	37760	No
7	GOM_NL__2PRFIN20090521_002803_000000452079_00131_37760_6553.N1	21-MAY-2009 00:28:03	Bright	45.000	120	1Del Oph	2.7340	3200.0	90	37760	No
8	GOM_NL__2PRFIN20090521_003109_000000412079_00131_37760_6554.N1	21-MAY-2009 00:31:09	Bright	40.500	102	24Alp Ser	2.6000	4250.0	81	37760	No
9	GOM_NL__2PRFIN20090521_003723_000000402079_00131_37760_6555.N1	21-MAY-2009 00:37:23	Bright	40.000	67	5Alp CrB	2.2210	11000.	80	37760	No
10	GOM_NL__2PRFIN20090521_004112_000000482079_00131_37760_6556.N1	21-MAY-2009 00:41:12	Bright	48.000	133	40Zet Her	2.8070	6000.0	96	37760	No
11	GOM_NL__2PRFIN20090521_004819_000000422079_00131_37760_6557.N1	21-MAY-2009 00:48:19	Bright	42.000	119	14Eta Dra	2.7270	4700.0	84	37760	No
12	GOM_NL__2PRFIN20090521_005913_000000442079_00131_37760_6558.N1	21-MAY-2009 00:59:13	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	37760	No
13	GOM_NL__2PRFIN20090521_011245_000000352079_00131_37760_6559.N1	21-MAY-2009 01:12:45	Twilight	34.500	58	21Alp And	2.0730	11000.	69	37760	No
14	GOM_NL__2PRFIN20090521_011904_000000472079_00131_37760_6560.N1	21-MAY-2009 01:19:04	Dark	46.500	90	54Alp Peg	2.4870	11000.	93	37760	No
15	GOM_NL__2PRFIN20090521_013302_000000522079_00131_37760_6561.N1	21-MAY-2009 01:33:02	Dark	51.500	18	24Alp PsA	1.1660	9700.0	103	37760	No
16	GOM_NL__2PRFIN20090521_013826_000000152079_00132_37761_6560.N1	21-MAY-2009 01:38:26	Dark	15.000	172	Gam Gru	3.0030	13100.	30	37761	No
17	GOM_NL__2PRFIN20090521_015352_000000492079_00132_37761_6561.N1	21-MAY-2009 01:53:52	Straylight	48.500	40	The Sco	1.8590	7100.0	97	37761	No
18	GOM_NL__2PRFIN20090521_015543_000000512079_00132_37761_6562.N1	21-MAY-2009 01:55:43	Straylight	51.000	25	35Lam Sco	1.6200	28000.	102	37761	No
19	GOM_NL__2PRFIN20090521_015751_000000442079_00132_37761_6563.N1	21-MAY-2009 01:57:51	Twilight	44.000	75	26Eps Sco	2.2910	4250.0	88	37761	No
20	GOM_NL__2PRFIN20090521_020047_000000442079_00132_37761_6564.N1	21-MAY-2009 02:00:47	Twilight	44.000	16	21Alp Sco	1.0200	3000.0	88	37761	No
21	GOM_NL__2PRFIN20090521_020412_000000362079_00132_37761_6565.N1	21-MAY-2009 02:04:12	Twilight	36.000	86	35Eta Oph	2.4300	10200.	72	37761	No
22	GOM_NL__2PRFIN20090521_020617_000000512079_00132_37761_6566.N1	21-MAY-2009 02:06:17	Bright	50.500	98	13Zet Oph	2.5710	30000.	101	37761	No
23	GOM_NL__2PRFIN20090521_020839_000000462079_00132_37761_6567.N1	21-MAY-2009 02:08:39	Bright	45.500	120	1Del Oph	2.7340	3200.0	91	37761	No
24	GOM_NL__2PRFIN20090521_021145_000000482079_00132_37761_6568.N1	21-MAY-2009 02:11:45	Bright	48.000	102	24Alp Ser	2.6000	4250.0	96	37761	No
25	GOM_NL__2PRFIN20090521_021758_000000402079_00132_37761_6569.N1	21-MAY-2009 02:17:58	Bright	40.000	67	5Alp CrB	2.2210	11000.	80	37761	No
26	GOM_NL__2PRFIN20090521_022147_000000522079_00132_37761_6570.N1	21-MAY-2009 02:21:47	Bright	52.000	133	40Zet Her	2.8070	6000.0	104	37761	No
27	GOM_NL__2PRFIN20090521_022854_000000422079_00132_37761_6571.N1	21-MAY-2009 02:28:54	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	37761	No
28	GOM_NL__2PRFIN20090521_023948_000000442079_00132_37761_6572.N1	21-MAY-2009 02:39:48	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	37761	No
29	GOM_NL__2PRFIN20090521_025321_000000332079_00132_37761_6573.N1	21-MAY-2009 02:53:21	Twilight	32.500	58	21Alp And	2.0730	11000.	65	37761	No
30	GOM_NL__2PRFIN20090521_025941_000000502079_00132_37761_6574.N1	21-MAY-2009 02:59:41	Dark	49.500	90	54Alp Peg	2.4870	11000.	99	37761	No
31	GOM_NL__2PRFIN20090521_031340_000000292079_00132_37761_6575.N1	21-MAY-2009 03:13:40	Dark	28.500	18	24Alp PsA	1.1660	9700.0	57	37761	No
32	GOM_NL__2PRFIN20090521_031905_000000482079_00133_37762_6574.N1	21-MAY-2009 03:19:05	Dark	48.000	172	Gam Gru	3.0030	13100.	96	37762	No
33	GOM_NL__2PRFIN20090521_033428_000000492079_00133_37762_6575.N1	21-MAY-2009 03:34:28	Straylight	49.000	40	The Sco	1.8590	7100.0	98	37762	No
34	GOM_NL__2PRFIN20090521_033619_000000452079_00133_37762_6576.N1	21-MAY-2009 03:36:19	Straylight	44.500	25	35Lam Sco	1.6200	28000.	89	37762	No
35	GOM_NL__2PRFIN20090521_033827_000000412079_00133_37762_6577.N1	21-MAY-2009 03:38:27	Twilight	40.500	75	26Eps Sco	2.2910	4250.0	81	37762	No
36	GOM_NL__2PRFIN20090521_034123_000000412079_00133_37762_6578.N1	21-MAY-2009 03:41:23	Twilight	40.500	16	21Alp Sco	1.0200	3000.0	81	37762	No
37	GOM_NL__2PRFIN20090521_034448_000000412079_00133_37762_6579.N1	21-MAY-2009 03:44:48	Bright	41.000	86	35Eta Oph	2.4300	10200.	82	37762	No
38	GOM_NL__2PRFIN20090521_034653_000000362079_00133_37762_6580.N1	21-MAY-2009 03:46:53	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	37762	No
39	GOM_NL__2PRFIN20090521_034916_000000372079_00133_37762_6581.N1	21-MAY-2009 03:49:16	Bright	36.500	120	1Del Oph	2.7340	3200.0	73	37762	No
40	GOM_NL__2PRFIN20090521_035221_000000352079_00133_37762_6582.N1	21-MAY-2009 03:52:21	Bright	34.500	102	24Alp Ser	2.6000	4250.0	69	37762	No
41	GOM_NL__2PRFIN20090521_035834_000000342079_00133_37762_6583.N1	21-MAY-2009 03:58:34	Bright	34.000	67	5Alp CrB	2.2210	11000.	68	37762	No
42	GOM_NL__2PRFIN20090521_040221_000000482079_00133_37762_6584.N1	21-MAY-2009 04:02:21	Bright	48.000	133	40Zet Her	2.8070	6000.0	96	37762	No







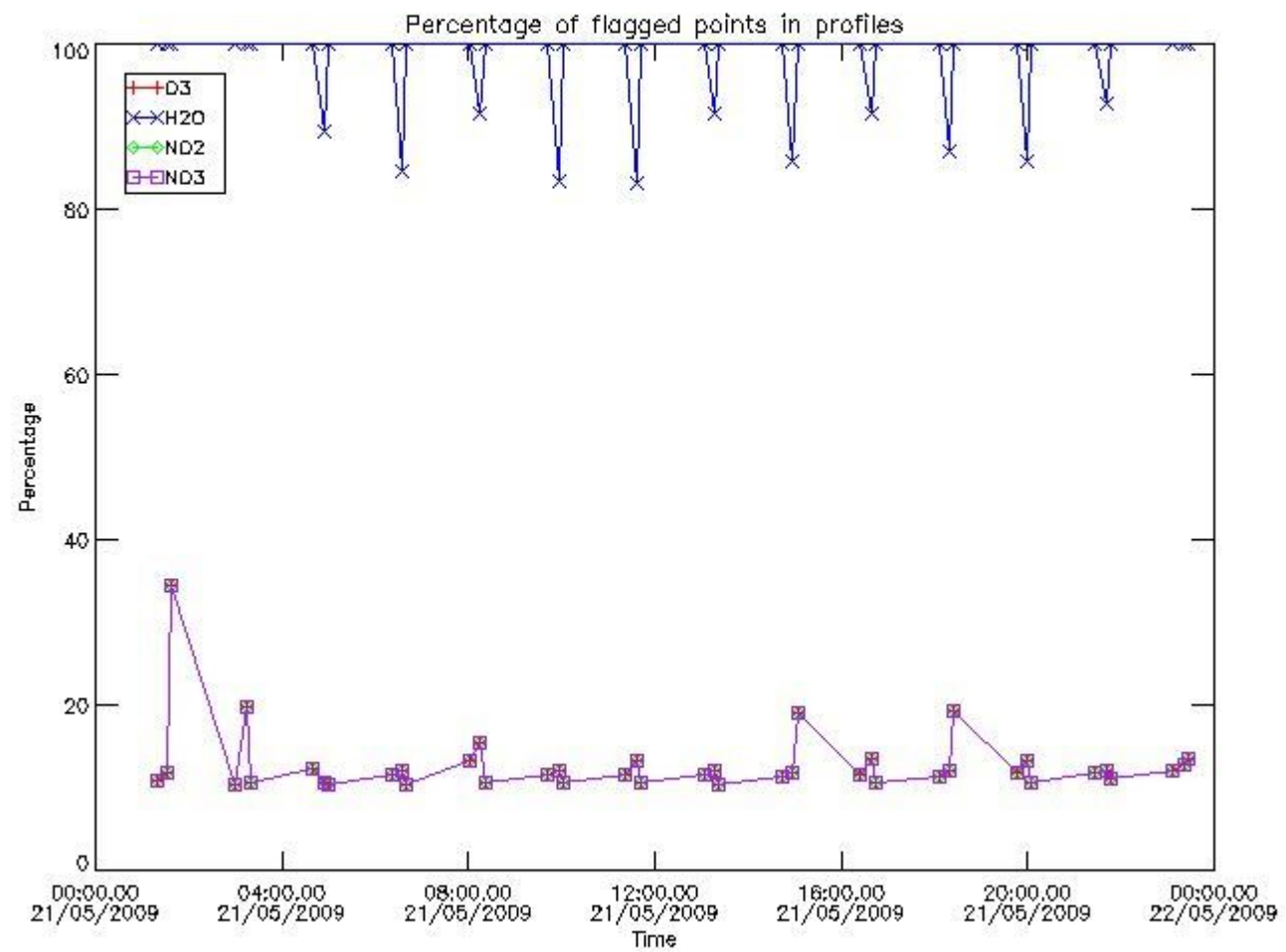


220	GOM_NL__2PRFIN20090521_232628_000000462079_00145_37774_6880.N1	21-MAY-2009 23:26:28	Dark	45.500	172	Gam Gru	3.0030	13100.	91	37774	No
221	GOM_NL__2PRFIN20090521_234146_000000382079_00145_37774_6881.N1	21-MAY-2009 23:41:46	Straylight	38.000	40	The Sco	1.8590	7100.0	76	37774	No
222	GOM_NL__2PRFIN20090521_234337_000000402079_00145_37774_6882.N1	21-MAY-2009 23:43:37	Straylight	40.000	25	35Lam Sco	1.6200	28000.	80	37774	No
223	GOM_NL__2PRFIN20090521_234837_000000372079_00145_37774_6883.N1	21-MAY-2009 23:48:37	Twilight_stray	37.000	16	21Alp Sco	1.0200	3000.0	74	37774	No
224	GOM_NL__2PRFIN20090521_235201_000000452079_00145_37774_6884.N1	21-MAY-2009 23:52:01	Bright	45.000	86	35Eta Oph	2.4300	10200.	90	37774	No
225	GOM_NL__2PRFIN20090521_235403_000000412079_00145_37774_6885.N1	21-MAY-2009 23:54:03	Bright	40.500	98	13Zet Oph	2.5710	30000.	81	37774	No
226	GOM_NL__2PRFIN20090521_235625_000000392079_00145_37774_6886.N1	21-MAY-2009 23:56:25	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	37774	No
227	GOM_NL__2PRFIN20090521_235930_000000372079_00145_37774_6887.N1	21-MAY-2009 23:59:30	Bright	36.500	102	24Alp Ser	2.6000	4250.0	73	37774	No

### 3. Quality information per product

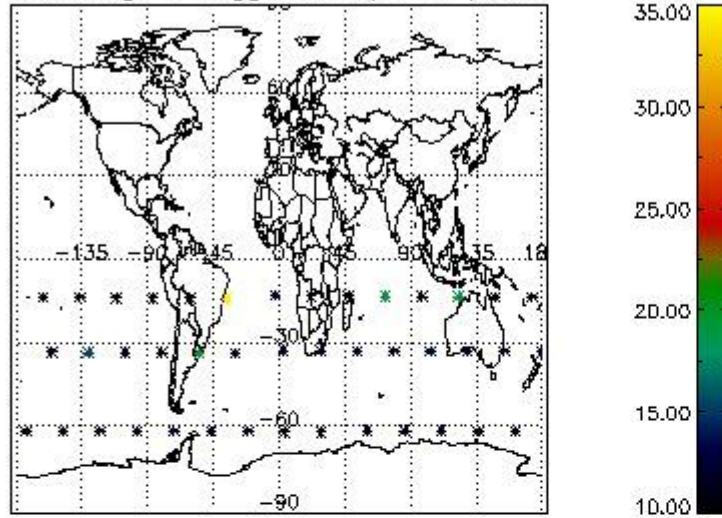
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

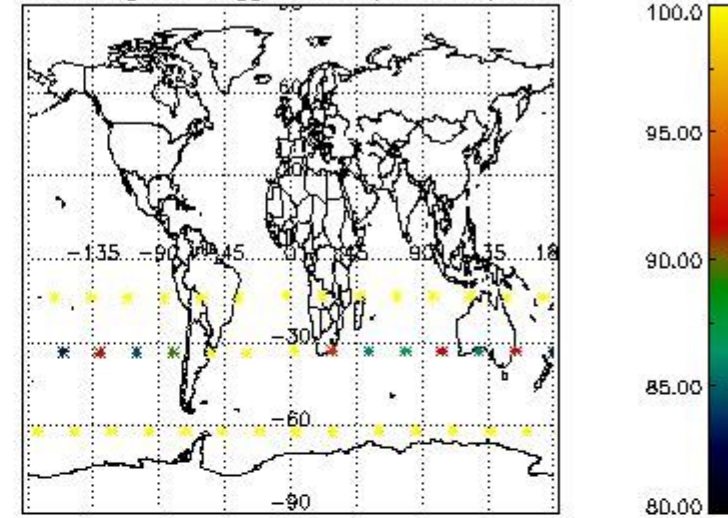


#### 3.2 Plot quality information per product (world map)

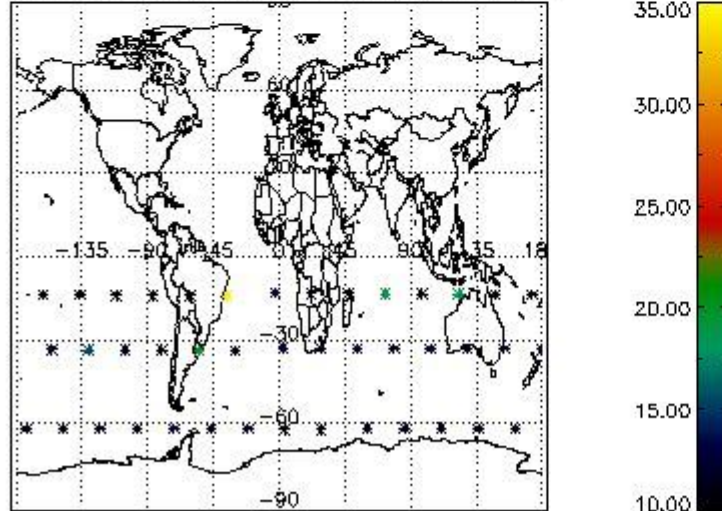
Percentage of flagged data per O3 profile



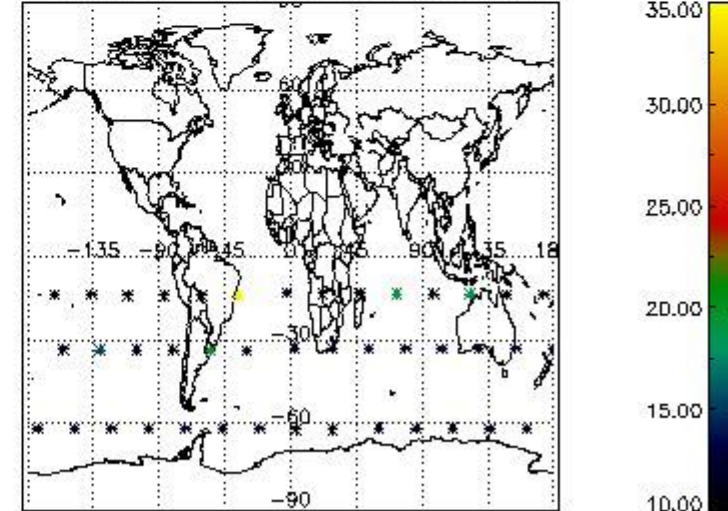
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile



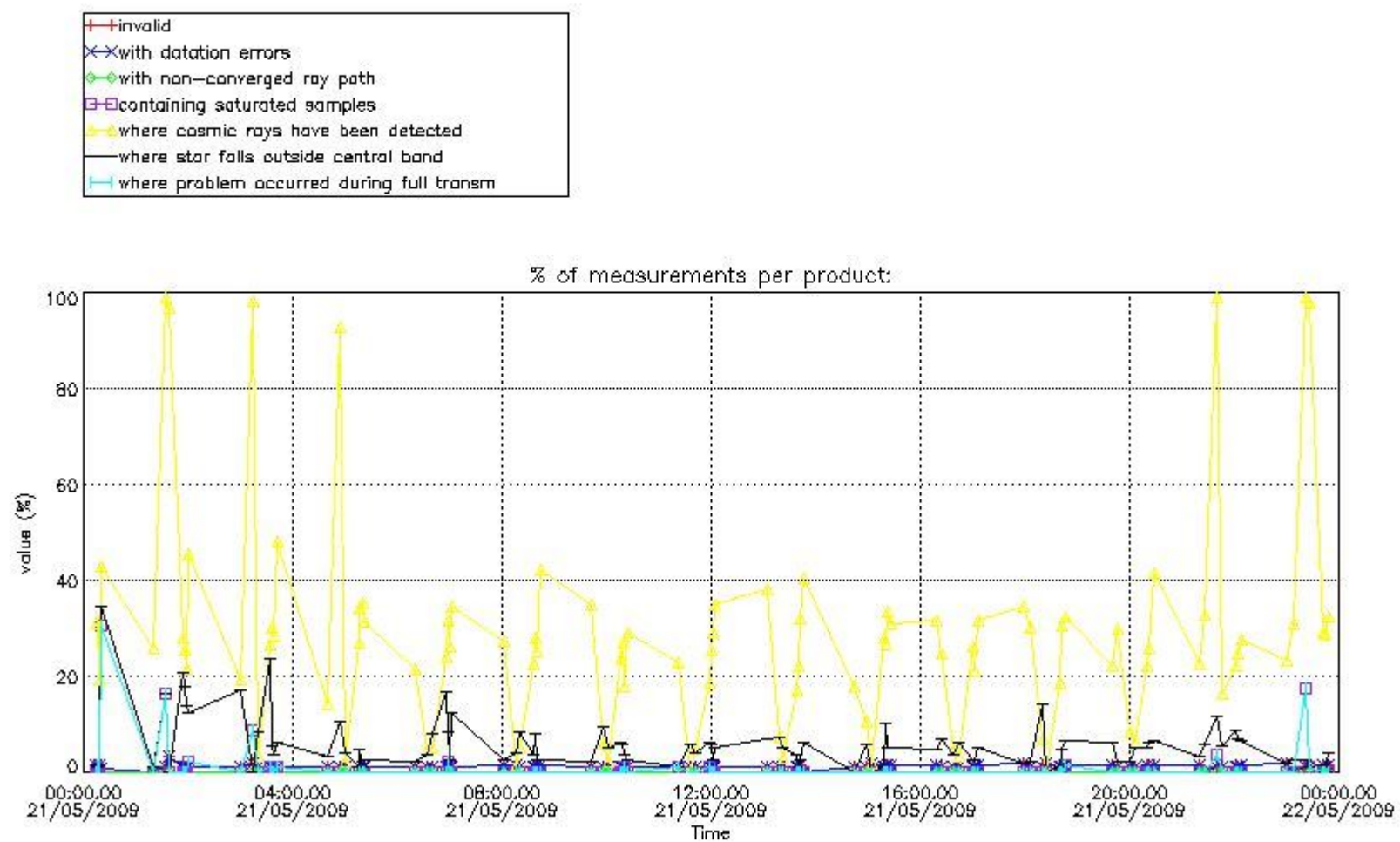
#### 4. Level 1 quality information per product

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

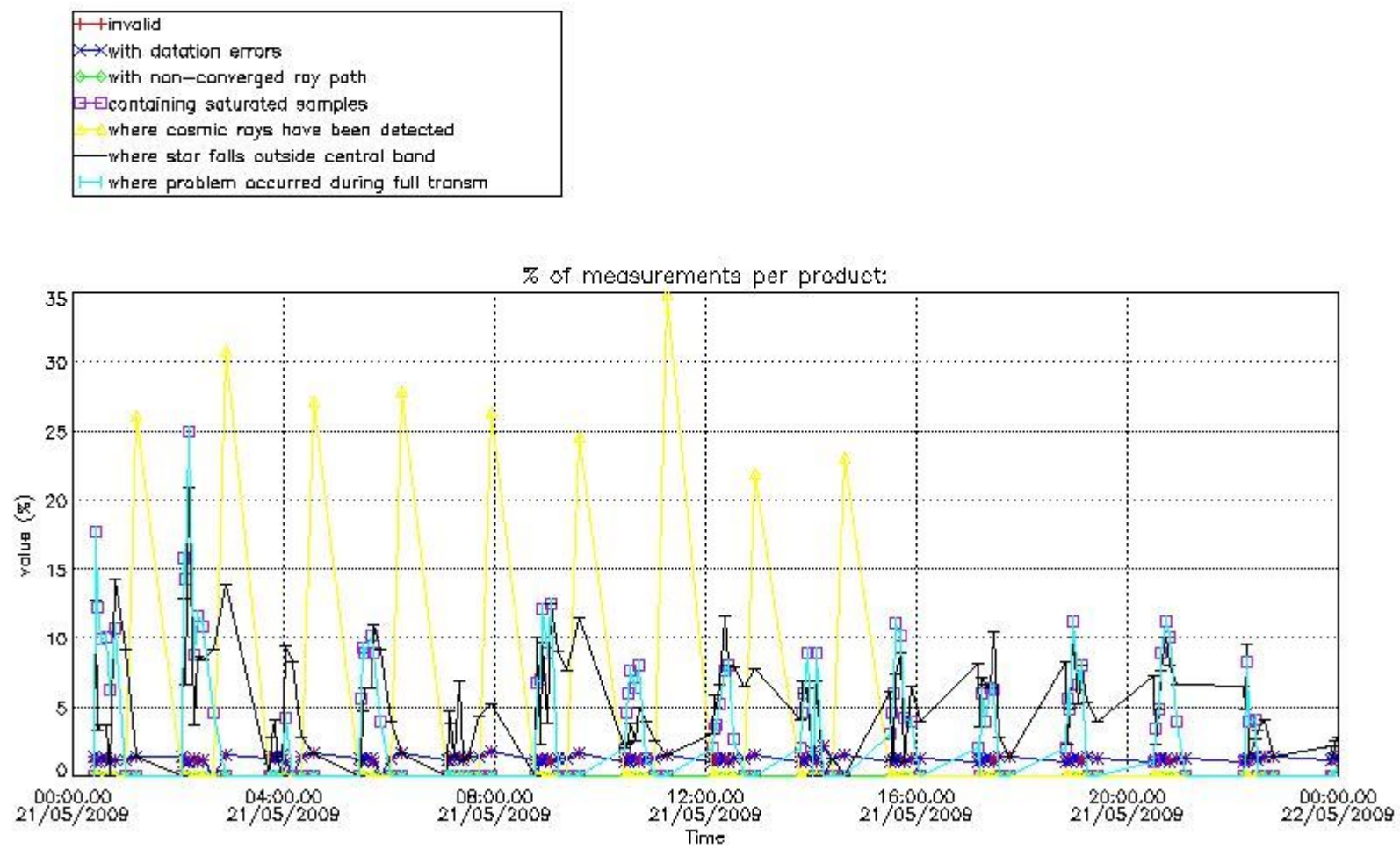
###### 4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes





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

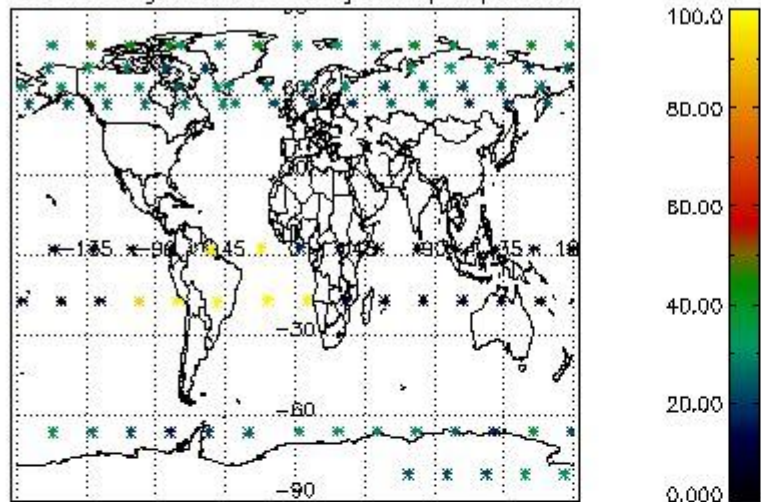




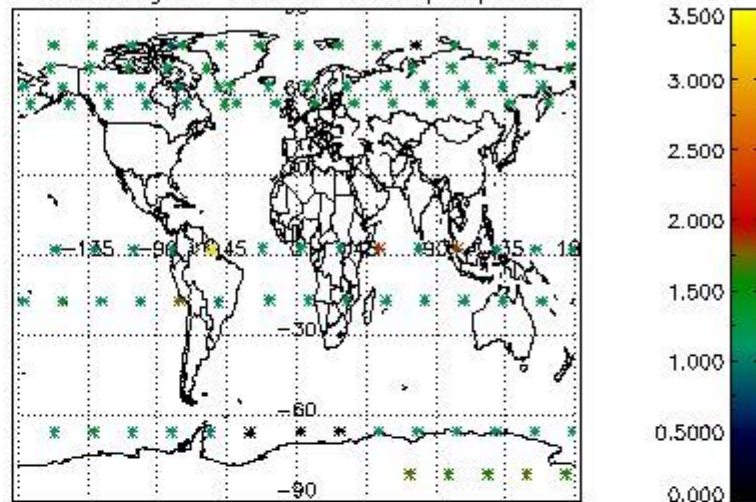
*4.2 Plot quality information per product coming from level 1b processing (world map)*

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

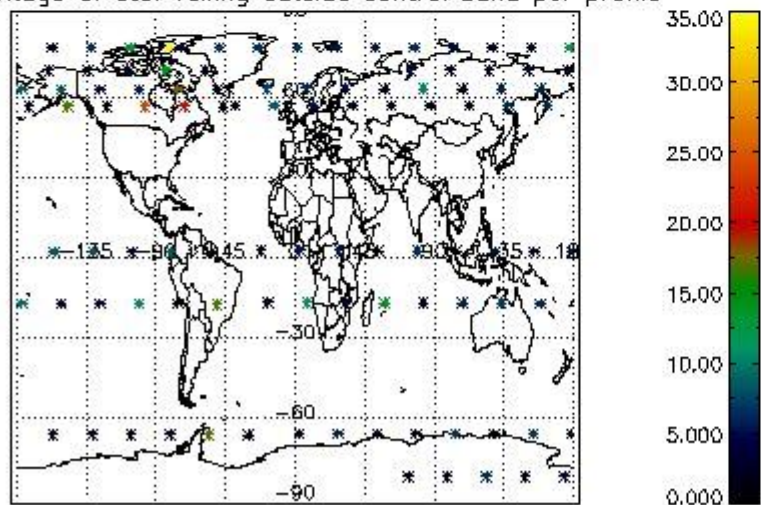
Percentage of cosmic ray hits per profile



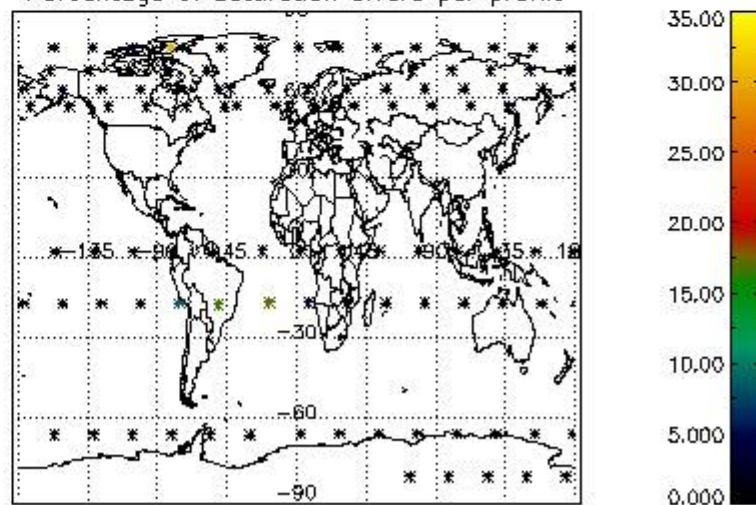
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



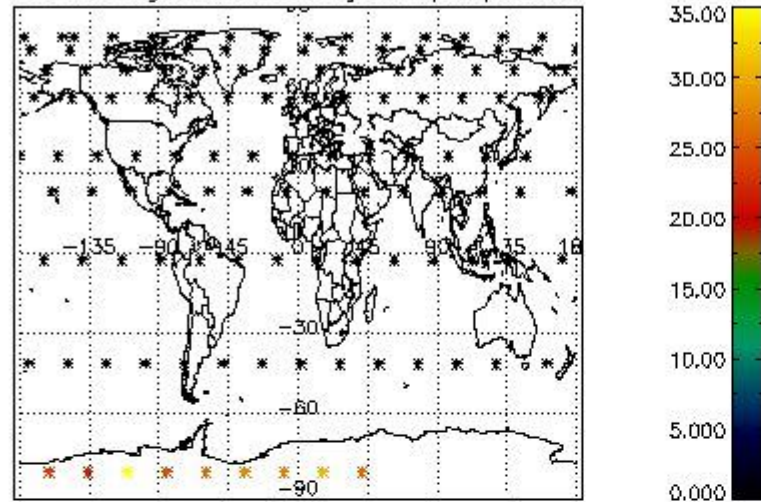
Percentage of saturation errors per profile



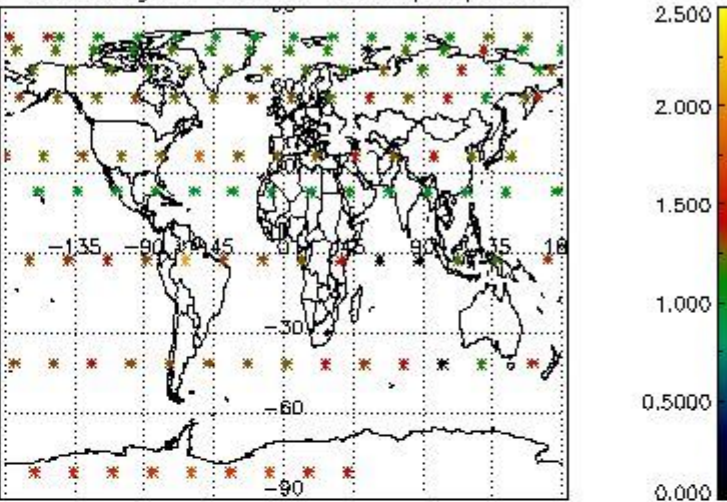
4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



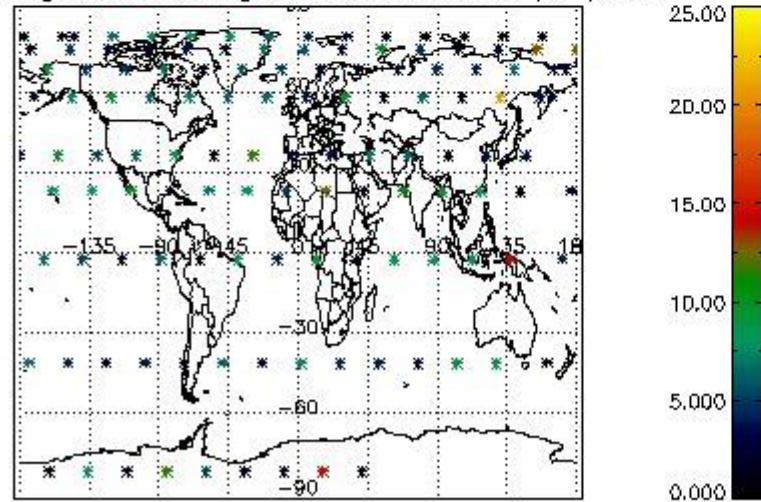
Percentage of cosmic ray hits per profile



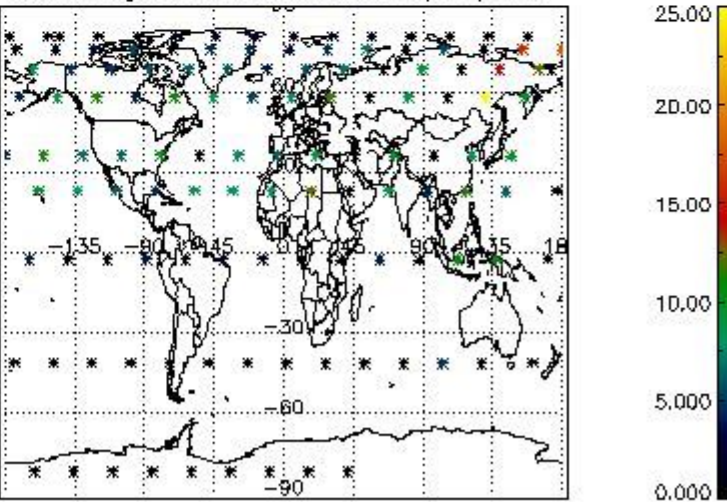
Percentage of datation errors per profile



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.

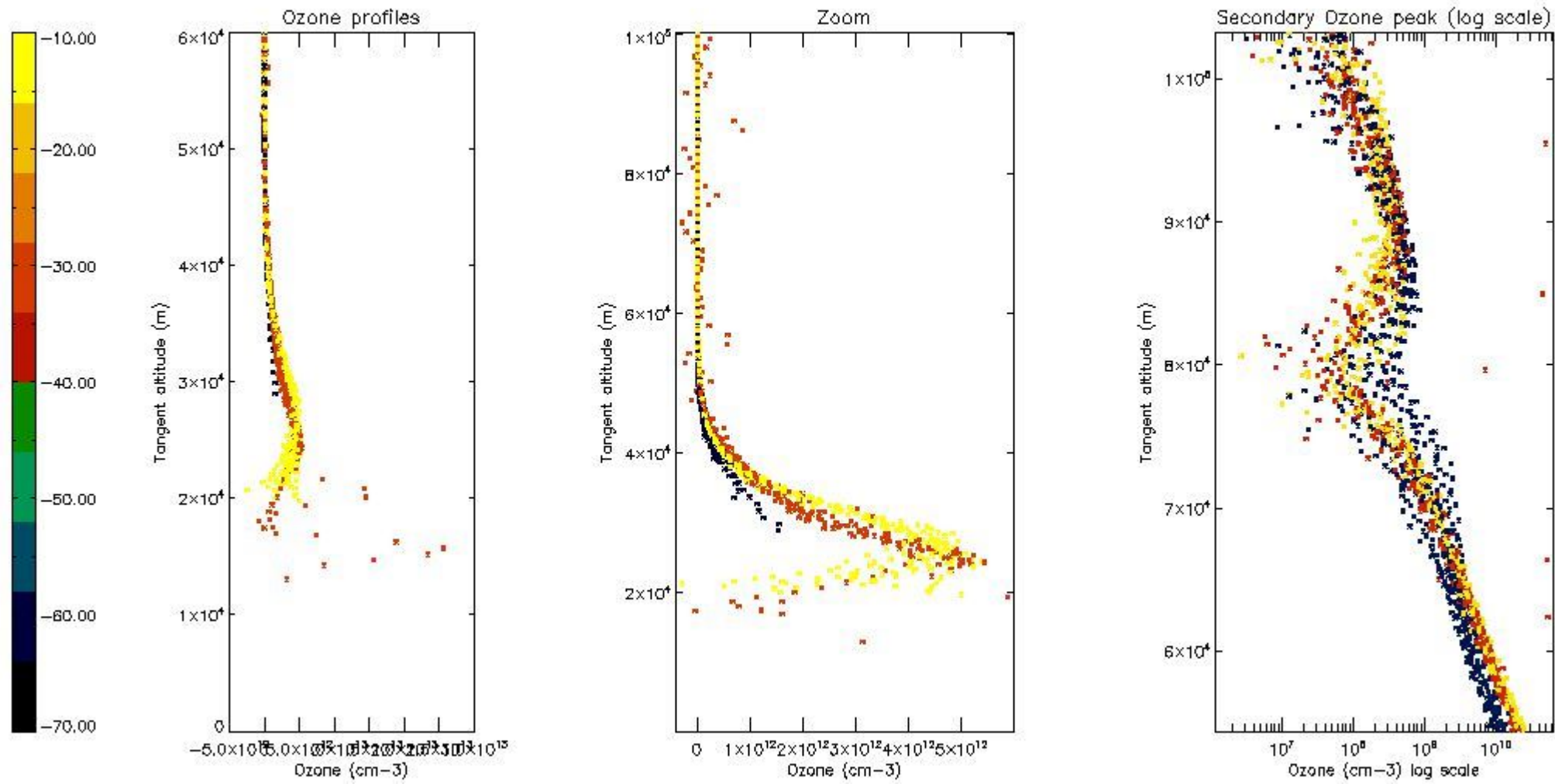
Criteria	% of total production
All STD	20
STD < 20	10



STD < 10	8
STD < 5	4

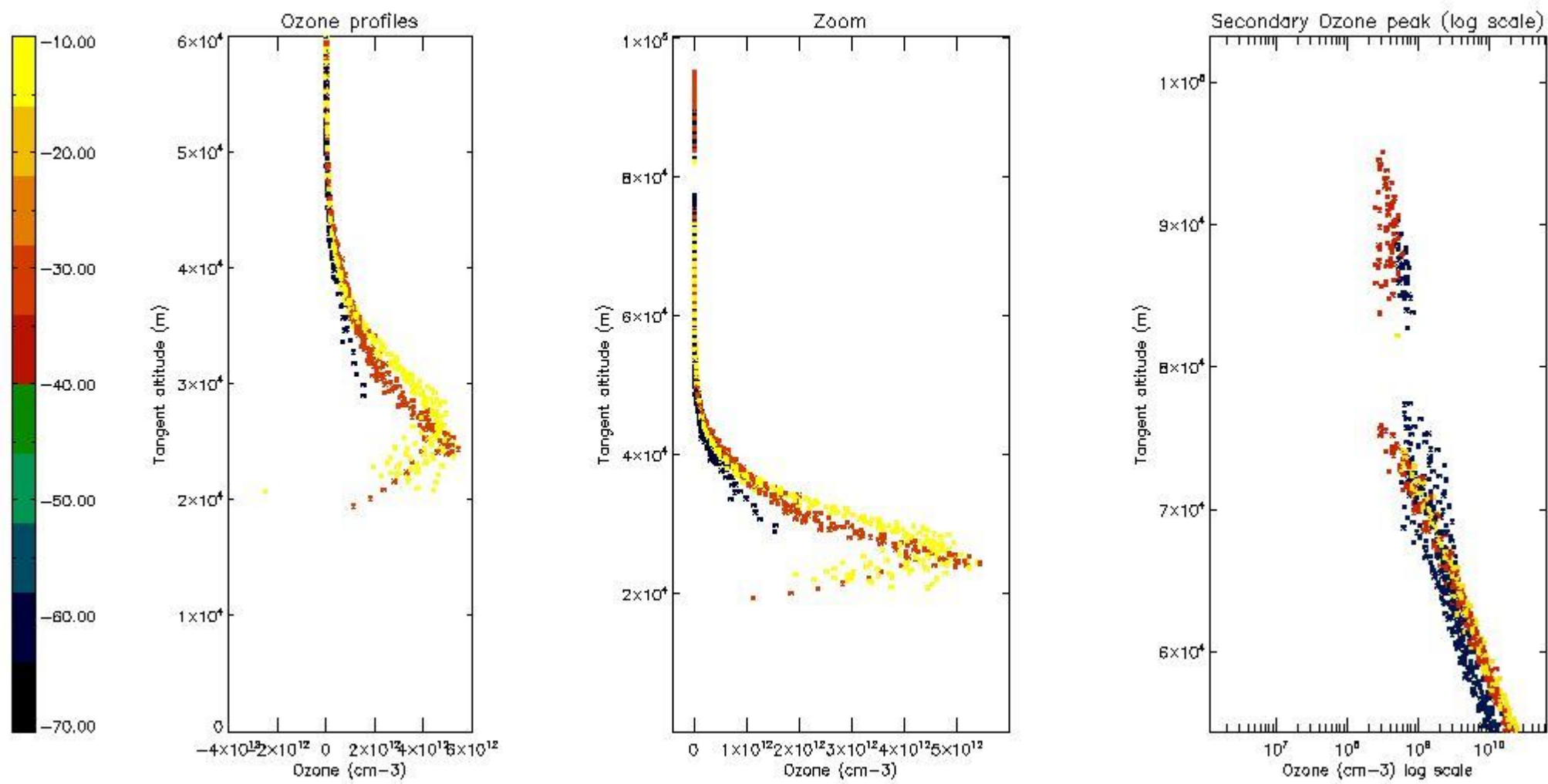
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



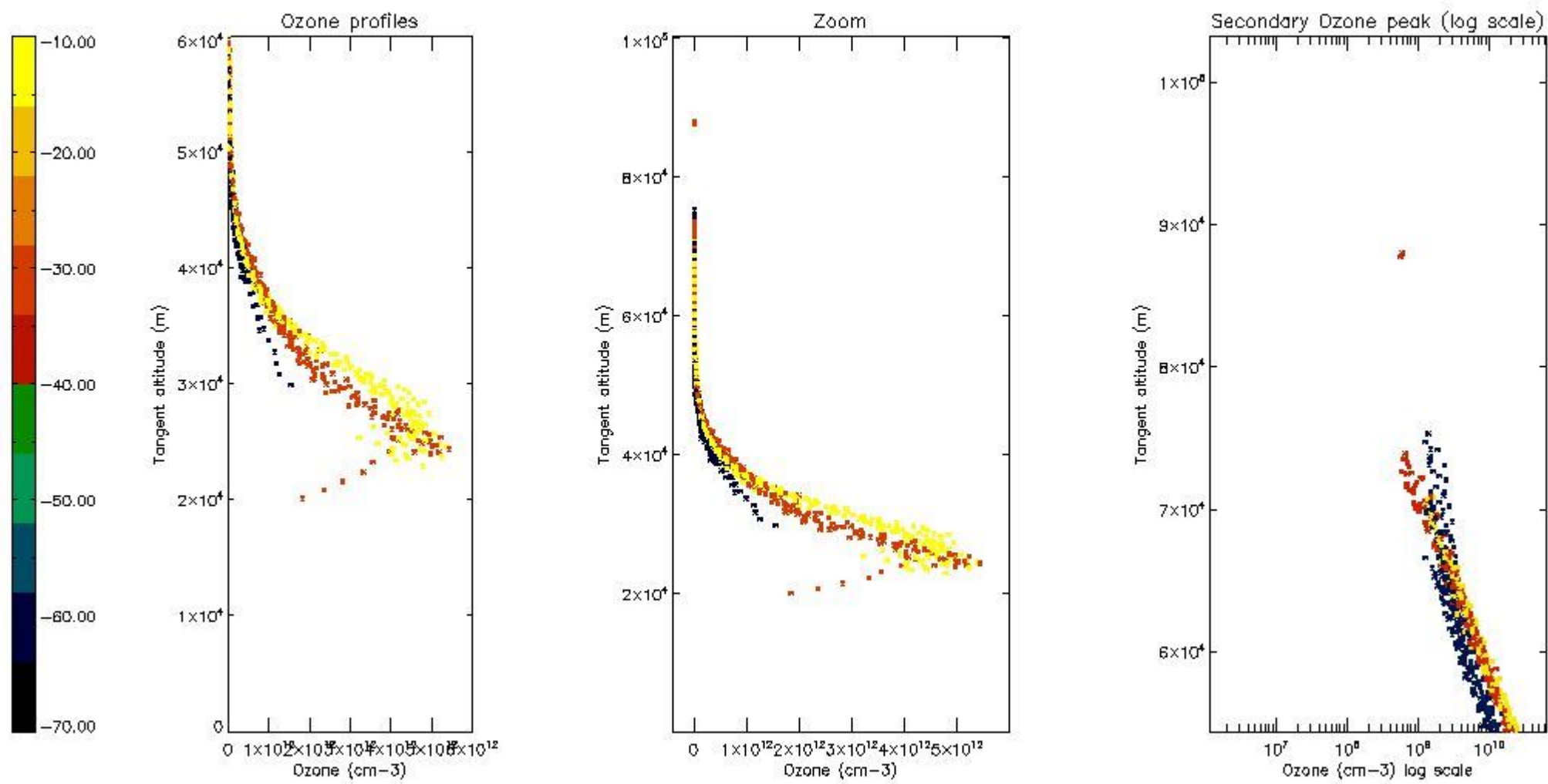
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



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

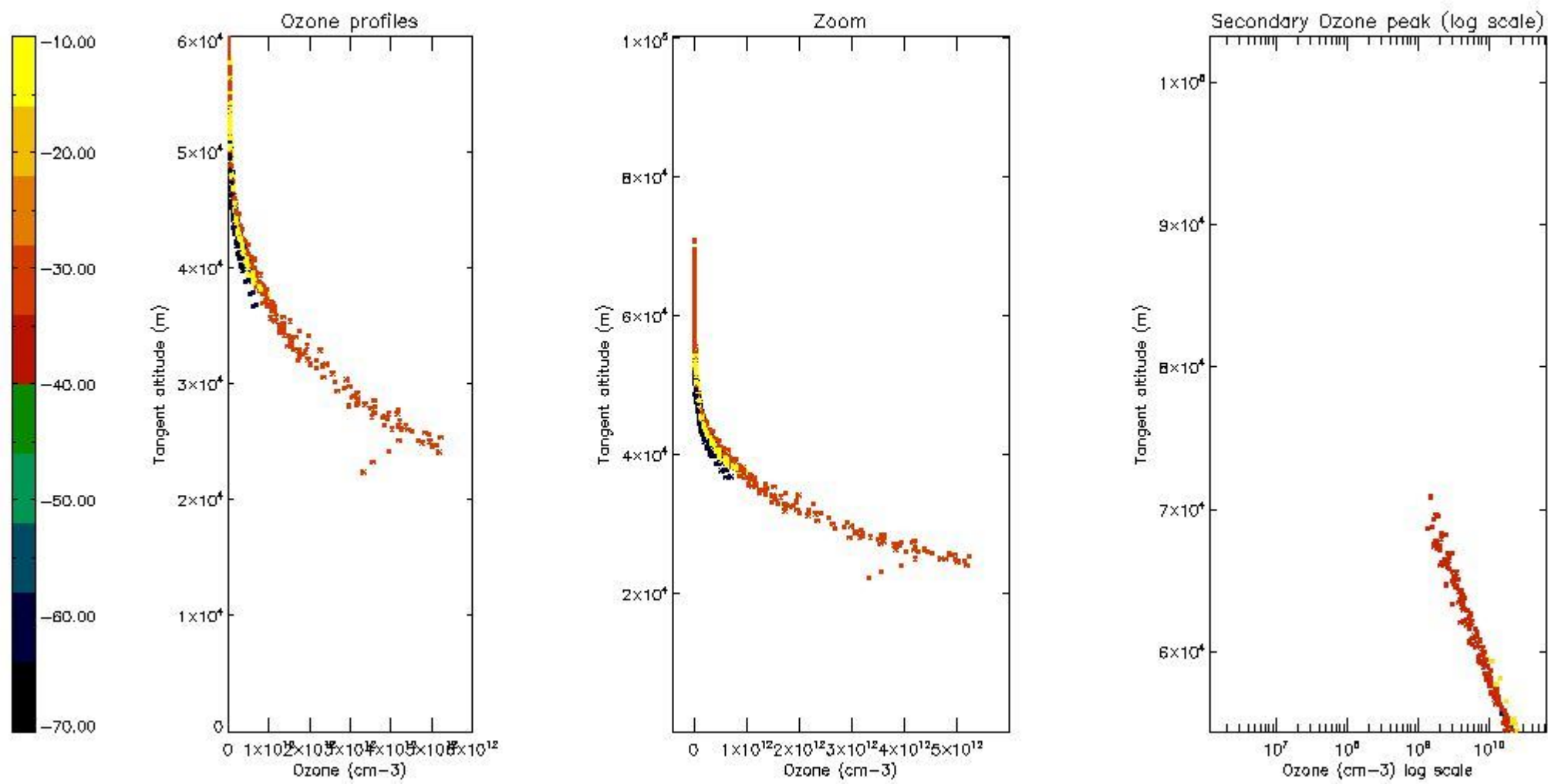
The colorbar represents the latitude.



*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

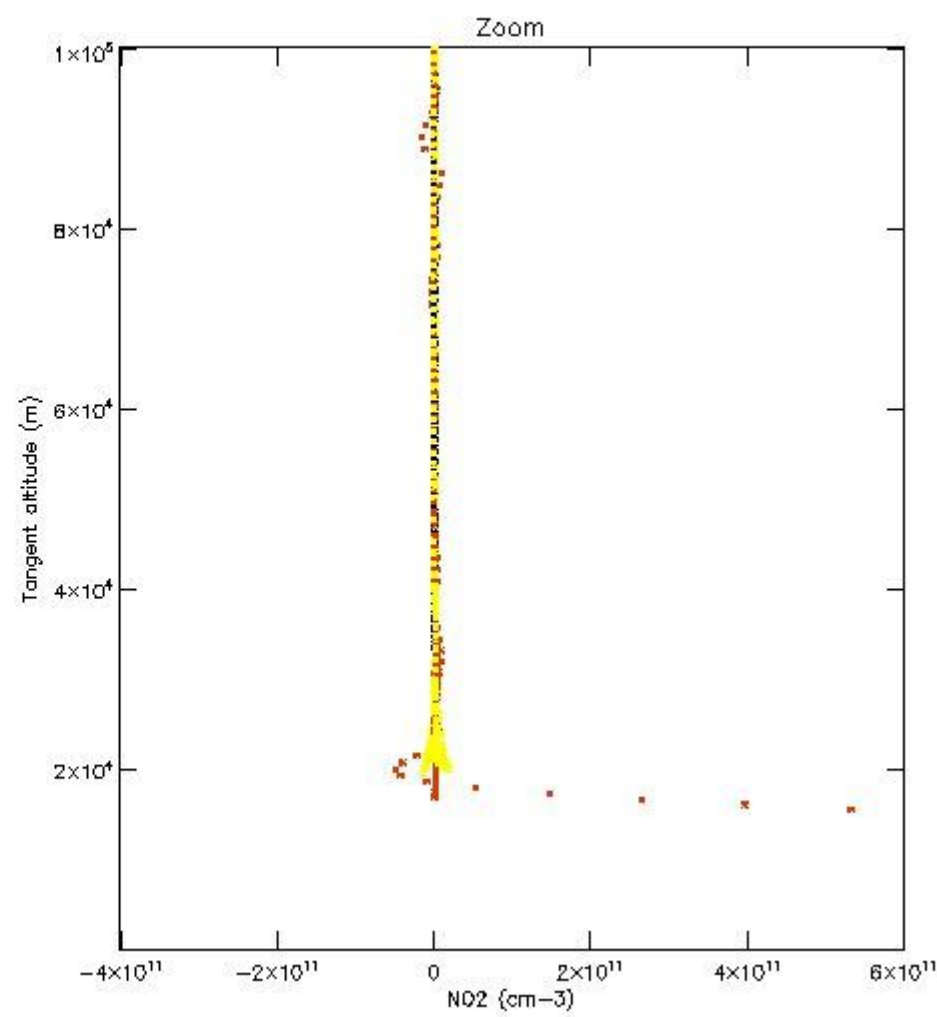
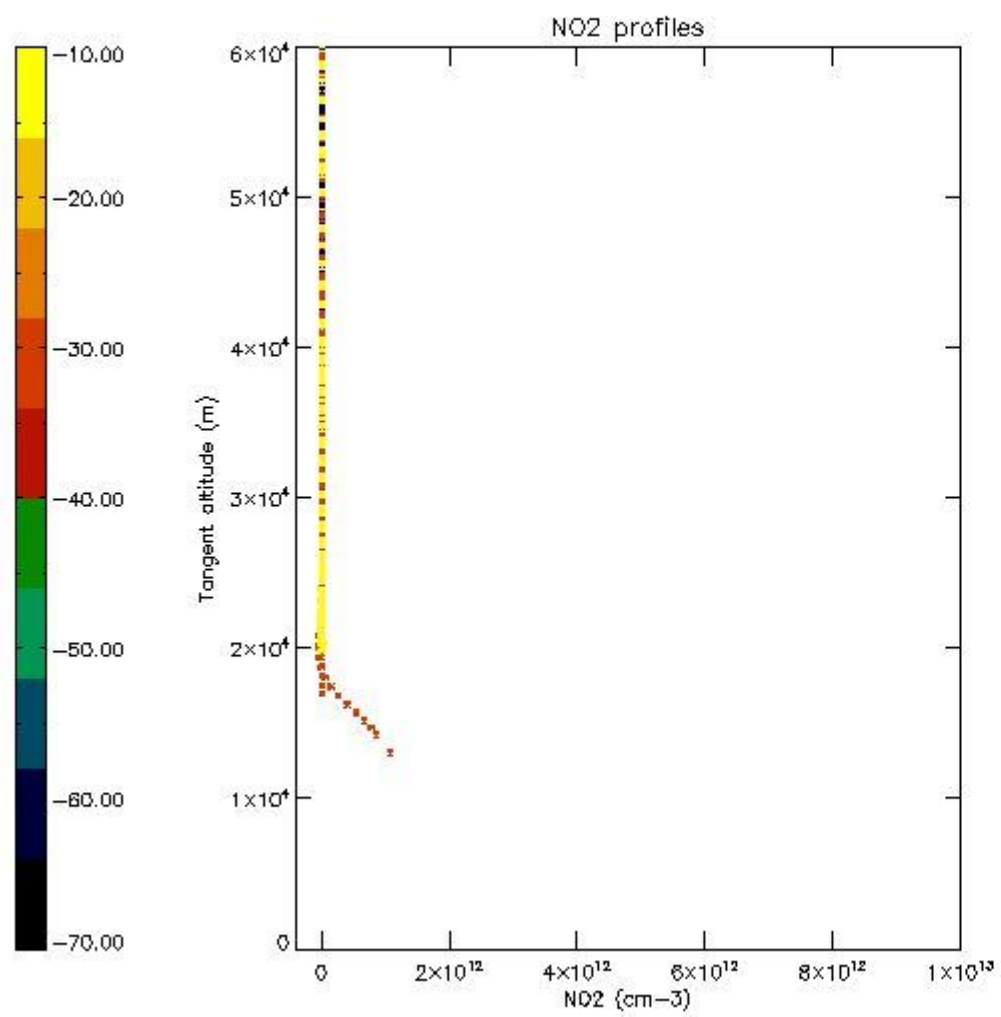
The colorbar represents the latitude.





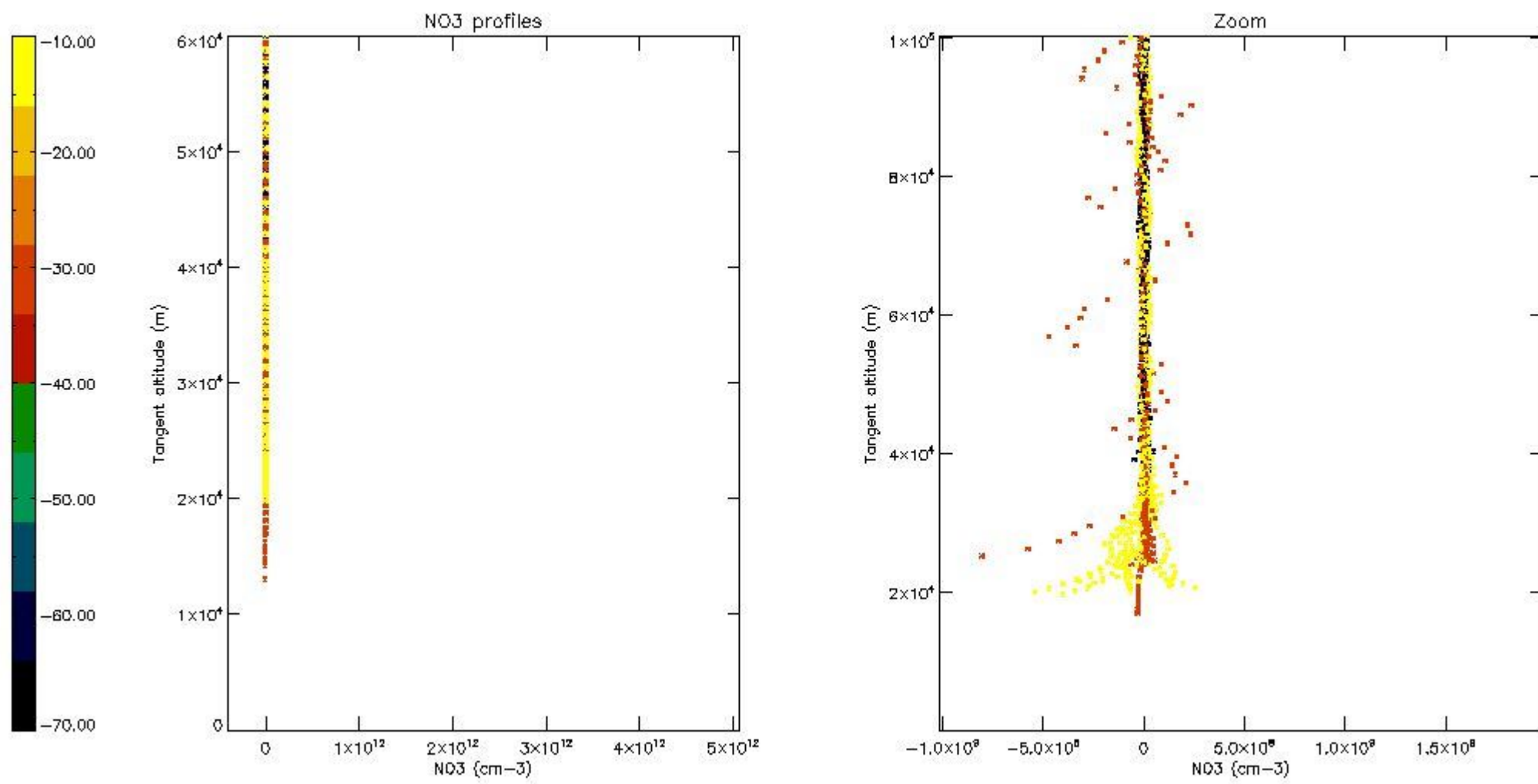
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

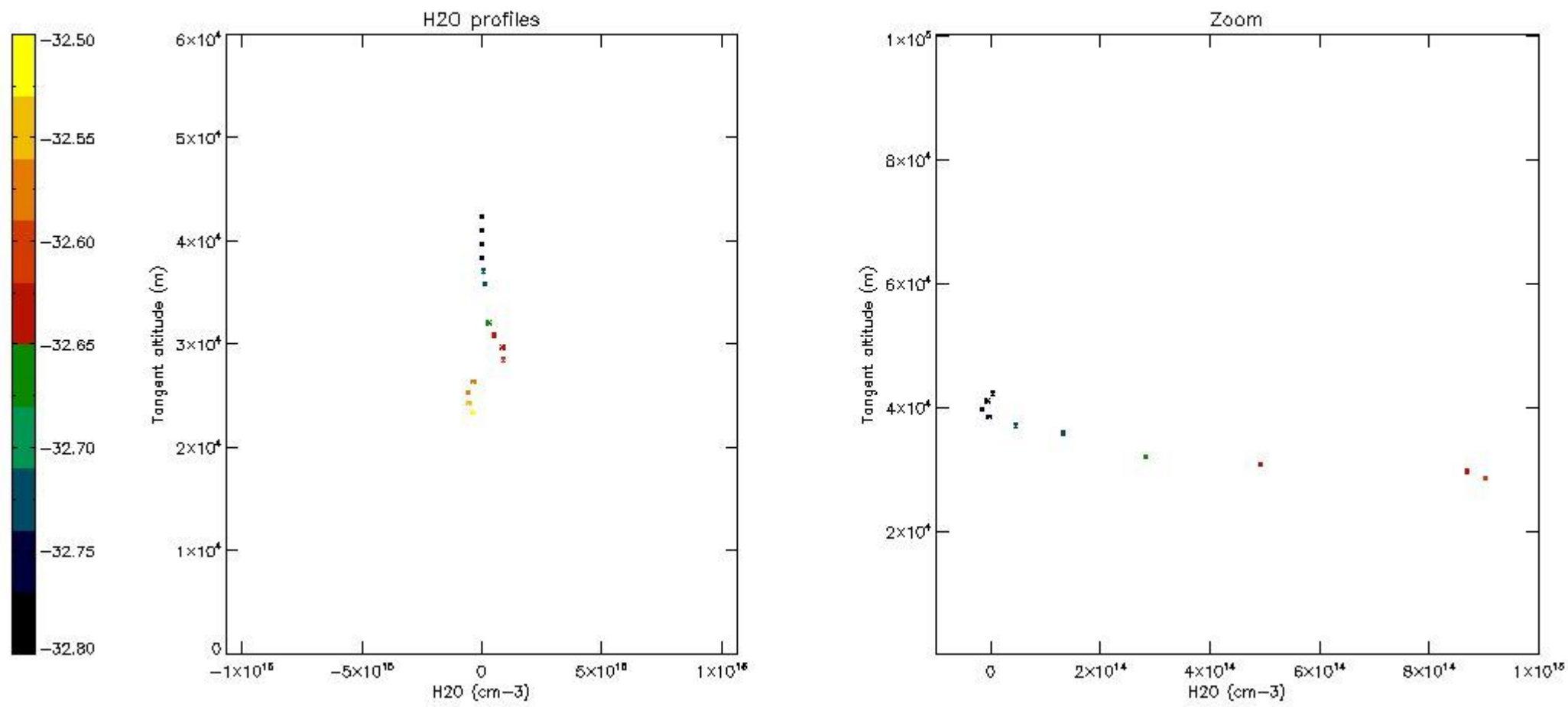
The colorbar represents the latitude.



*5.8 Plot H2O profiles for all STD (only for occultations of stars 1,2,3,4,13,14,16,26,63 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-MAY-2009 00:13:15
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	21-MAY-2009 00:13:15
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	21-MAY-2009 00:13:15

# GOMOS Level 2 Daily Report

## SUMMARY

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### [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	26APR2013 09:39:45
Data source version	GOMOS/6.01
Start time of products	21-05-2009 (21MAY2009 00:00:00)
Stop time of products	22-05-2009 (22MAY2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	227
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__2PRFIN20090521_001315_000000372079_00131_37760_6547.N1	21-MAY-2009 00:13:15	Straylight	37.000	40	The Sco	1.8590	7100.0	74	37760	No
2	GOM_NL__2PRFIN20090521_001506_000000402079_00131_37760_6548.N1	21-MAY-2009 00:15:06	Straylight	39.500	25	35Lam Sco	1.6200	28000.	79	37760	No
3	GOM_NL__2PRFIN20090521_001714_000000372079_00131_37760_6549.N1	21-MAY-2009 00:17:14	Twilight	36.500	75	26Eps Sco	2.2910	4250.0	73	37760	No
4	GOM_NL__2PRFIN20090521_002010_000000622079_00131_37760_6550.N1	21-MAY-2009 00:20:10	Twilight	62.000	16	21Alp Sco	1.0200	3000.0	124	37760	No
5	GOM_NL__2PRFIN20090521_002336_000000362079_00131_37760_6551.N1	21-MAY-2009 00:23:36	Twilight	36.000	86	35Eta Oph	2.4300	10200.	72	37760	No
6	GOM_NL__2PRFIN20090521_002541_000000512079_00131_37760_6552.N1	21-MAY-2009 00:25:41	Bright	51.000	98	13Zet Oph	2.5710	30000.	102	37760	No
7	GOM_NL__2PRFIN20090521_002803_000000452079_00131_37760_6553.N1	21-MAY-2009 00:28:03	Bright	45.000	120	1Del Oph	2.7340	3200.0	90	37760	No
8	GOM_NL__2PRFIN20090521_003109_000000412079_00131_37760_6554.N1	21-MAY-2009 00:31:09	Bright	40.500	102	24Alp Ser	2.6000	4250.0	81	37760	No
9	GOM_NL__2PRFIN20090521_003723_000000402079_00131_37760_6555.N1	21-MAY-2009 00:37:23	Bright	40.000	67	5Alp CrB	2.2210	11000.	80	37760	No
10	GOM_NL__2PRFIN20090521_004112_000000482079_00131_37760_6556.N1	21-MAY-2009 00:41:12	Bright	48.000	133	40Zet Her	2.8070	6000.0	96	37760	No
11	GOM_NL__2PRFIN20090521_004819_000000422079_00131_37760_6557.N1	21-MAY-2009 00:48:19	Bright	42.000	119	14Eta Dra	2.7270	4700.0	84	37760	No
12	GOM_NL__2PRFIN20090521_005913_000000442079_00131_37760_6558.N1	21-MAY-2009 00:59:13	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	37760	No
13	GOM_NL__2PRFIN20090521_011245_000000352079_00131_37760_6559.N1	21-MAY-2009 01:12:45	Twilight	34.500	58	21Alp And	2.0730	11000.	69	37760	No
14	GOM_NL__2PRFIN20090521_011904_000000472079_00131_37760_6560.N1	21-MAY-2009 01:19:04	Dark	46.500	90	54Alp Peg	2.4870	11000.	93	37760	No
15	GOM_NL__2PRFIN20090521_013302_000000522079_00131_37760_6561.N1	21-MAY-2009 01:33:02	Dark	51.500	18	24Alp PsA	1.1660	9700.0	103	37760	No
16	GOM_NL__2PRFIN20090521_013826_000000152079_00132_37761_6560.N1	21-MAY-2009 01:38:26	Dark	15.000	172	Gam Gru	3.0030	13100.	30	37761	No
17	GOM_NL__2PRFIN20090521_015352_000000492079_00132_37761_6561.N1	21-MAY-2009 01:53:52	Straylight	48.500	40	The Sco	1.8590	7100.0	97	37761	No
18	GOM_NL__2PRFIN20090521_015543_000000512079_00132_37761_6562.N1	21-MAY-2009 01:55:43	Straylight	51.000	25	35Lam Sco	1.6200	28000.	102	37761	No
19	GOM_NL__2PRFIN20090521_015751_000000442079_00132_37761_6563.N1	21-MAY-2009 01:57:51	Twilight	44.000	75	26Eps Sco	2.2910	4250.0	88	37761	No
20	GOM_NL__2PRFIN20090521_020047_000000442079_00132_37761_6564.N1	21-MAY-2009 02:00:47	Twilight	44.000	16	21Alp Sco	1.0200	3000.0	88	37761	No
21	GOM_NL__2PRFIN20090521_020412_000000362079_00132_37761_6565.N1	21-MAY-2009 02:04:12	Twilight	36.000	86	35Eta Oph	2.4300	10200.	72	37761	No
22	GOM_NL__2PRFIN20090521_020617_000000512079_00132_37761_6566.N1	21-MAY-2009 02:06:17	Bright	50.500	98	13Zet Oph	2.5710	30000.	101	37761	No
23	GOM_NL__2PRFIN20090521_020839_000000462079_00132_37761_6567.N1	21-MAY-2009 02:08:39	Bright	45.500	120	1Del Oph	2.7340	3200.0	91	37761	No
24	GOM_NL__2PRFIN20090521_021145_000000482079_00132_37761_6568.N1	21-MAY-2009 02:11:45	Bright	48.000	102	24Alp Ser	2.6000	4250.0	96	37761	No
25	GOM_NL__2PRFIN20090521_021758_000000402079_00132_37761_6569.N1	21-MAY-2009 02:17:58	Bright	40.000	67	5Alp CrB	2.2210	11000.	80	37761	No
26	GOM_NL__2PRFIN20090521_022147_000000522079_00132_37761_6570.N1	21-MAY-2009 02:21:47	Bright	52.000	133	40Zet Her	2.8070	6000.0	104	37761	No
27	GOM_NL__2PRFIN20090521_022854_000000422079_00132_37761_6571.N1	21-MAY-2009 02:28:54	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	37761	No
28	GOM_NL__2PRFIN20090521_023948_000000442079_00132_37761_6572.N1	21-MAY-2009 02:39:48	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	37761	No
29	GOM_NL__2PRFIN20090521_025321_000000332079_00132_37761_6573.N1	21-MAY-2009 02:53:21	Twilight	32.500	58	21Alp And	2.0730	11000.	65	37761	No
30	GOM_NL__2PRFIN20090521_025941_000000502079_00132_37761_6574.N1	21-MAY-2009 02:59:41	Dark	49.500	90	54Alp Peg	2.4870	11000.	99	37761	No
31	GOM_NL__2PRFIN20090521_031340_000000292079_00132_37761_6575.N1	21-MAY-2009 03:13:40	Dark	28.500	18	24Alp PsA	1.1660	9700.0	57	37761	No
32	GOM_NL__2PRFIN20090521_031905_000000482079_00133_37762_6574.N1	21-MAY-2009 03:19:05	Dark	48.000	172	Gam Gru	3.0030	13100.	96	37762	No
33	GOM_NL__2PRFIN20090521_033428_000000492079_00133_37762_6575.N1	21-MAY-2009 03:34:28	Straylight	49.000	40	The Sco	1.8590	7100.0	98	37762	No
34	GOM_NL__2PRFIN20090521_033619_000000452079_00133_37762_6576.N1	21-MAY-2009 03:36:19	Straylight	44.500	25	35Lam Sco	1.6200	28000.	89	37762	No
35	GOM_NL__2PRFIN20090521_033827_000000412079_00133_37762_6577.N1	21-MAY-2009 03:38:27	Twilight	40.500	75	26Eps Sco	2.2910	4250.0	81	37762	No
36	GOM_NL__2PRFIN20090521_034123_000000412079_00133_37762_6578.N1	21-MAY-2009 03:41:23	Twilight	40.500	16	21Alp Sco	1.0200	3000.0	81	37762	No
37	GOM_NL__2PRFIN20090521_034448_000000412079_00133_37762_6579.N1	21-MAY-2009 03:44:48	Bright	41.000	86	35Eta Oph	2.4300	10200.	82	37762	No
38	GOM_NL__2PRFIN20090521_034653_000000362079_00133_37762_6580.N1	21-MAY-2009 03:46:53	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	37762	No
39	GOM_NL__2PRFIN20090521_034916_000000372079_00133_37762_6581.N1	21-MAY-2009 03:49:16	Bright	36.500	120	1Del Oph	2.7340	3200.0	73	37762	No
40	GOM_NL__2PRFIN20090521_035221_000000352079_00133_37762_6582.N1	21-MAY-2009 03:52:21	Bright	34.500	102	24Alp Ser	2.6000	4250.0	69	37762	No
41	GOM_NL__2PRFIN20090521_035834_000000342079_00133_37762_6583.N1	21-MAY-2009 03:58:34	Bright	34.000	67	5Alp CrB	2.2210	11000.	68	37762	No
42	GOM_NL__2PRFIN20090521_040221_000000482079_00133_37762_6584.N1	21-MAY-2009 04:02:21	Bright	48.000	133	40Zet Her	2.8070	6000.0	96	37762	No

43	GOM_NL__2PRFIN20090521_040929_000000372079_00133_37762_6585.N1	21-MAY-2009 04:09:29	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	37762	No
44	GOM_NL__2PRFIN20090521_042024_000000352079_00133_37762_6586.N1	21-MAY-2009 04:20:24	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	37762	No
45	GOM_NL__2PRFIN20090521_043358_000000302079_00133_37762_6587.N1	21-MAY-2009 04:33:58	Twilight	29.500	58	21Alp And	2.0730	11000.	59	37762	No
46	GOM_NL__2PRFIN20090521_044018_000000462079_00133_37762_6588.N1	21-MAY-2009 04:40:18	Dark	45.500	90	54Alp Peg	2.4870	11000.	91	37762	No
47	GOM_NL__2PRFIN20090521_045416_000000482079_00133_37762_6589.N1	21-MAY-2009 04:54:16	Dark	48.000	18	24Alp PsA	1.1660	9700.0	96	37762	No
48	GOM_NL__2PRFIN20090521_045940_000000492079_00134_37763_6590.N1	21-MAY-2009 04:59:40	Dark	49.000	172	Gam Gru	3.0030	13100.	98	37763	No
49	GOM_NL__2PRFIN20090521_051505_000000412079_00134_37763_6591.N1	21-MAY-2009 05:15:05	Straylight	41.000	40	The Sco	1.8590	7100.0	82	37763	No
50	GOM_NL__2PRFIN20090521_051657_000000432079_00134_37763_6592.N1	21-MAY-2009 05:16:57	Straylight	42.500	25	35Lam Sco	1.6200	28000.	85	37763	No
51	GOM_NL__2PRFIN20090521_051904_000000402079_00134_37763_6593.N1	21-MAY-2009 05:19:04	Twilight	39.500	75	26Eps Sco	2.2910	4250.0	79	37763	No
52	GOM_NL__2PRFIN20090521_052159_000000402079_00134_37763_6594.N1	21-MAY-2009 05:21:59	Twilight	40.000	16	21Alp Sco	1.0200	3000.0	80	37763	No
53	GOM_NL__2PRFIN20090521_052524_000000412079_00134_37763_6595.N1	21-MAY-2009 05:25:24	Bright	41.000	86	35Eta Oph	2.4300	10200.	82	37763	No
54	GOM_NL__2PRFIN20090521_052728_000000452079_00134_37763_6596.N1	21-MAY-2009 05:27:28	Bright	44.500	98	13Zet Oph	2.5710	30000.	89	37763	No
55	GOM_NL__2PRFIN20090521_052951_000000432079_00134_37763_6597.N1	21-MAY-2009 05:29:51	Bright	43.000	120	1Del Oph	2.7340	3200.0	86	37763	No
56	GOM_NL__2PRFIN20090521_053257_000000402079_00134_37763_6598.N1	21-MAY-2009 05:32:57	Bright	39.500	102	24Alp Ser	2.6000	4250.0	79	37763	No
57	GOM_NL__2PRFIN20090521_053910_000000402079_00134_37763_6599.N1	21-MAY-2009 05:39:10	Bright	39.500	67	5Alp CrB	2.2210	11000.	79	37763	No
58	GOM_NL__2PRFIN20090521_054257_000000512079_00134_37763_6600.N1	21-MAY-2009 05:42:57	Bright	50.500	133	40Zet Her	2.8070	6000.0	101	37763	No
59	GOM_NL__2PRFIN20090521_055006_000000382079_00134_37763_6601.N1	21-MAY-2009 05:50:06	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	37763	No
60	GOM_NL__2PRFIN20090521_060100_000000382079_00134_37763_6602.N1	21-MAY-2009 06:01:00	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	37763	No
61	GOM_NL__2PRFIN20090521_061434_000000312079_00134_37763_6603.N1	21-MAY-2009 06:14:34	Twilight	30.500	58	21Alp And	2.0730	11000.	61	37763	No
62	GOM_NL__2PRFIN20090521_062054_000000452079_00134_37763_6604.N1	21-MAY-2009 06:20:54	Dark	44.500	90	54Alp Peg	2.4870	11000.	89	37763	No
63	GOM_NL__2PRFIN20090521_063453_000000432079_00134_37763_6605.N1	21-MAY-2009 06:34:53	Dark	42.500	18	24Alp PsA	1.1660	9700.0	85	37763	No
64	GOM_NL__2PRFIN20090521_064018_000000502079_00135_37764_6604.N1	21-MAY-2009 06:40:18	Dark	49.500	172	Gam Gru	3.0030	13100.	99	37764	No
65	GOM_NL__2PRFIN20090521_065541_000000422079_00135_37764_6605.N1	21-MAY-2009 06:55:41	Straylight	41.500	40	The Sco	1.8590	7100.0	83	37764	No
66	GOM_NL__2PRFIN20090521_065733_000000432079_00135_37764_6606.N1	21-MAY-2009 06:57:33	Straylight	42.500	25	35Lam Sco	1.6200	28000.	85	37764	No
67	GOM_NL__2PRFIN20090521_065940_000000402079_00135_37764_6607.N1	21-MAY-2009 06:59:40	Twilight	40.000	75	26Eps Sco	2.2910	4250.0	80	37764	No
68	GOM_NL__2PRFIN20090521_070235_000000412079_00135_37764_6608.N1	21-MAY-2009 07:02:35	Twilight	40.500	16	21Alp Sco	1.0200	3000.0	81	37764	No
69	GOM_NL__2PRFIN20090521_070600_000000462079_00135_37764_6609.N1	21-MAY-2009 07:06:00	Bright	46.000	86	35Eta Oph	2.4300	10200.	92	37764	No
70	GOM_NL__2PRFIN20090521_070805_000000422079_00135_37764_6610.N1	21-MAY-2009 07:08:05	Bright	42.000	98	13Zet Oph	2.5710	30000.	84	37764	No
71	GOM_NL__2PRFIN20090521_071027_000000392079_00135_37764_6611.N1	21-MAY-2009 07:10:27	Bright	39.000	120	1Del Oph	2.7340	3200.0	78	37764	No
72	GOM_NL__2PRFIN20090521_071333_000000362079_00135_37764_6612.N1	21-MAY-2009 07:13:33	Bright	36.000	102	24Alp Ser	2.6000	4250.0	72	37764	No
73	GOM_NL__2PRFIN20090521_071945_000000372079_00135_37764_6613.N1	21-MAY-2009 07:19:45	Bright	36.500	67	5Alp CrB	2.2210	11000.	73	37764	No
74	GOM_NL__2PRFIN20090521_072332_000000452079_00135_37764_6614.N1	21-MAY-2009 07:23:32	Bright	45.000	133	40Zet Her	2.8070	6000.0	90	37764	No
75	GOM_NL__2PRFIN20090521_073041_000000352079_00135_37764_6615.N1	21-MAY-2009 07:30:41	Bright	34.500	119	14Eta Dra	2.7270	4700.0	69	37764	No
76	GOM_NL__2PRFIN20090521_074135_000000352079_00135_37764_6616.N1	21-MAY-2009 07:41:35	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	37764	No
77	GOM_NL__2PRFIN20090521_075510_000000292079_00135_37764_6617.N1	21-MAY-2009 07:55:10	Twilight	28.500	58	21Alp And	2.0730	11000.	57	37764	No
78	GOM_NL__2PRFIN20090521_080131_000000392079_00135_37764_6618.N1	21-MAY-2009 08:01:31	Dark	38.500	90	54Alp Peg	2.4870	11000.	77	37764	No
79	GOM_NL__2PRFIN20090521_081530_000000372079_00135_37764_6619.N1	21-MAY-2009 08:15:30	Dark	36.500	18	24Alp PsA	1.1660	9700.0	73	37764	No
80	GOM_NL__2PRFIN20090521_082056_000000482079_00136_37765_6619.N1	21-MAY-2009 08:20:56	Dark	48.000	172	Gam Gru	3.0030	13100.	96	37765	No
81	GOM_NL__2PRFIN20090521_083618_000000402079_00136_37765_6620.N1	21-MAY-2009 08:36:18	Straylight	40.000	40	The Sco	1.8590	7100.0	80	37765	No
82	GOM_NL__2PRFIN20090521_083809_000000432079_00136_37765_6621.N1	21-MAY-2009 08:38:09	Straylight	43.000	25	35Lam Sco	1.6200	28000.	86	37765	No
83	GOM_NL__2PRFIN20090521_084016_000000382079_00136_37765_6622.N1	21-MAY-2009 08:40:16	Twilight	38.000	75	26Eps Sco	2.2910	4250.0	76	37765	No
84	GOM_NL__2PRFIN20090521_084312_000000382079_00136_37765_6623.N1	21-MAY-2009 08:43:12	Twilight	38.000	16	21Alp Sco	1.0200	3000.0	76	37765	No
85	GOM_NL__2PRFIN20090521_084636_000000462079_00136_37765_6624.N1	21-MAY-2009 08:46:36	Bright	46.000	86	35Eta Oph	2.4300	10200.	92	37765	No
86	GOM_NL__2PRFIN20090521_084840_000000452079_00136_37765_6625.N1	21-MAY-2009 08:48:40	Bright	44.500	98	13Zet Oph	2.5710	30000.	89	37765	No
87	GOM_NL__2PRFIN20090521_085102_000000432079_00136_37765_6626.N1	21-MAY-2009 08:51:02	Bright	42.500	120	1Del Oph	2.7340	3200.0	85	37765	No
88	GOM_NL__2PRFIN20090521_085408_000000422079_00136_37765_6627.N1	21-MAY-2009 08:54:08	Bright	41.500	102	24Alp Ser	2.6000	4250.0	83	37765	No
89	GOM_NL__2PRFIN20090521_090021_000000402079_00136_37765_6628.N1	21-MAY-2009 09:00:21	Bright	39.500	67	5Alp CrB	2.2210	11000.	79	37765	No
90	GOM_NL__2PRFIN20090521_090407_000000522079_00136_37765_6629.N1	21-MAY-2009 09:04:07	Bright	52.000	133	40Zet Her	2.8070	6000.0	104	37765	No
91	GOM_NL__2PRFIN20090521_091117_000000392079_00136_37765_6630.N1	21-MAY-2009 09:11:17	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	37765	No
92	GOM_NL__2PRFIN20090521_092210_000000402079_00136_37765_6631.N1	21-MAY-2009 09:22:10	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	37765	No
93	GOM_NL__2PRFIN20090521_093546_000000312079_00136_37765_6632.N1	21-MAY-2009 09:35:46	Twilight	30.500	58	21Alp And	2.0730	11000.	61	37765	No
94	GOM_NL__2PRFIN20090521_094208_000000452079_00136_37765_6633.N1	21-MAY-2009 09:42:08	Dark	44.500	90	54Alp Peg	2.4870	11000.	89	37765	No
95	GOM_NL__2PRFIN20090521_095607_000000432079_00136_37765_6634.N1	21-MAY-2009 09:56:07	Dark	42.500	18	24Alp PsA	1.1660	9700.0	85	37765	No
96	GOM_NL__2PRFIN20090521_100132_000000492079_00137_37766_6633.N1	21-MAY-2009 10:01:32	Dark	48.500	172	Gam Gru	3.0030	13100.	97	37766	No
97	GOM_NL__2PRFIN20090521_101655_000000412079_00137_37766_6634.N1	21-MAY-2009 10:16:55	Straylight	40.500	40	The Sco	1.8590	7100.0	81	37766	No
98	GOM_NL__2PRFIN20090521_101846_000000432079_00137_37766_6635.N1	21-MAY-2009 10:18:46	Straylight	42.500	25	35Lam Sco	1.6200	28000.	85	37766	No
99	GOM_NL__2PRFIN20090521_102053_000000402079_00137_37766_6636.N1	21-MAY-2009 10:20:53	Twilight	39.500	75	26Eps Sco	2.2910	4250.0	79	37766	No
100	GOM_NL__2PRFIN20090521_102348_000000402079_00137_37766_6637.N1	21-MAY-2009 10:23:48	Twilight	39.500	16	21Alp Sco	1.0200	3000.0	79	37766	No
101	GOM_NL__2PRFIN20090521_102712_000000492079_00137_37766_6638.N1	21-MAY-2009 10:27:12	Bright	49.000	86	35Eta Oph	2.4300	10200.	98	37766	No





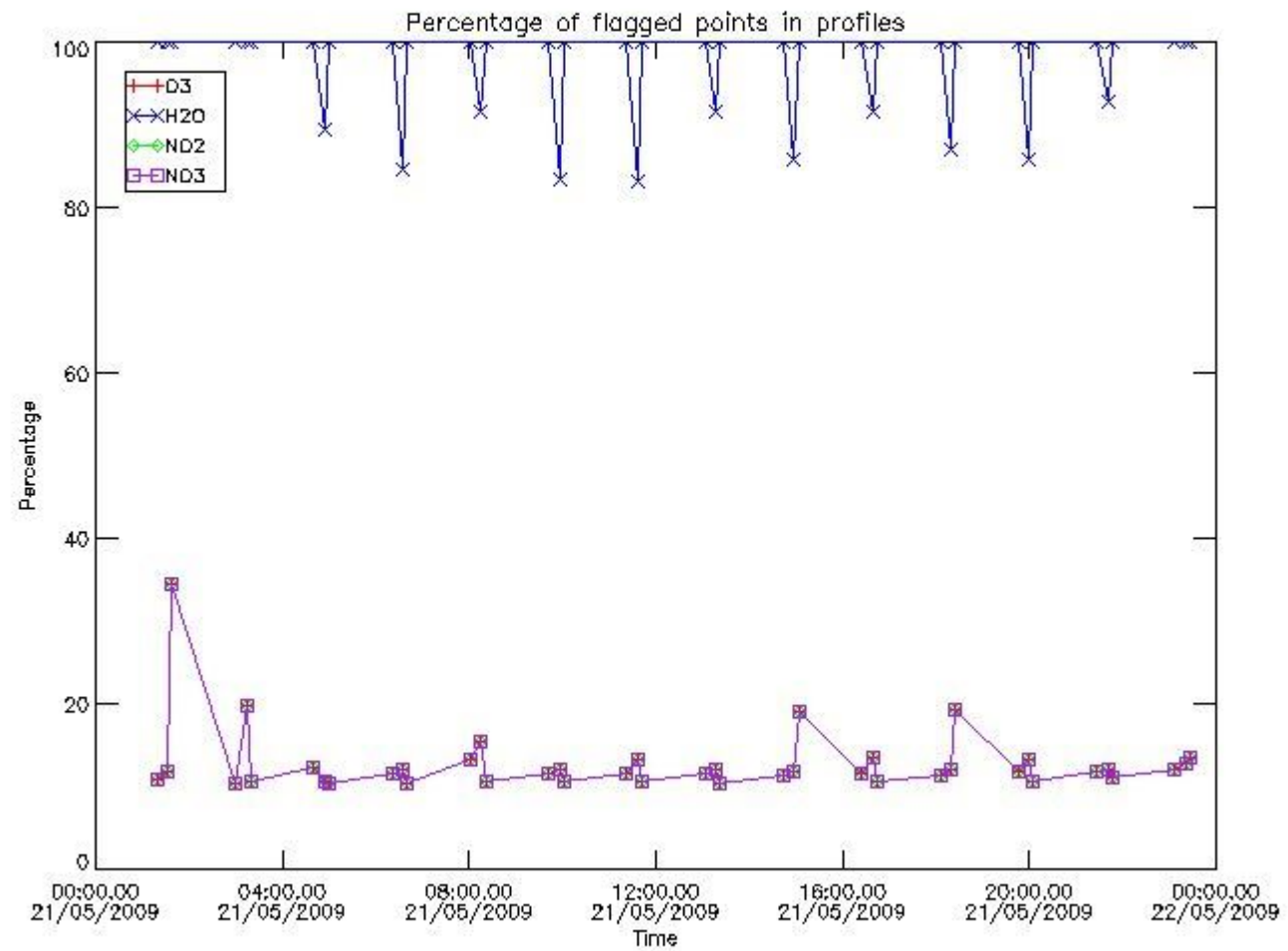


220	GOM_NL__2PRFIN20090521_232628_000000462079_00145_37774_6880.N1	21-MAY-2009 23:26:28	Dark	45.500	172	Gam Gru	3.0030	13100.	91	37774	No
221	GOM_NL__2PRFIN20090521_234146_000000382079_00145_37774_6881.N1	21-MAY-2009 23:41:46	Straylight	38.000	40	The Sco	1.8590	7100.0	76	37774	No
222	GOM_NL__2PRFIN20090521_234337_000000402079_00145_37774_6882.N1	21-MAY-2009 23:43:37	Straylight	40.000	25	35Lam Sco	1.6200	28000.	80	37774	No
223	GOM_NL__2PRFIN20090521_234837_000000372079_00145_37774_6883.N1	21-MAY-2009 23:48:37	Twilight_stray	37.000	16	21Alp Sco	1.0200	3000.0	74	37774	No
224	GOM_NL__2PRFIN20090521_235201_000000452079_00145_37774_6884.N1	21-MAY-2009 23:52:01	Bright	45.000	86	35Eta Oph	2.4300	10200.	90	37774	No
225	GOM_NL__2PRFIN20090521_235403_000000412079_00145_37774_6885.N1	21-MAY-2009 23:54:03	Bright	40.500	98	13Zet Oph	2.5710	30000.	81	37774	No
226	GOM_NL__2PRFIN20090521_235625_000000392079_00145_37774_6886.N1	21-MAY-2009 23:56:25	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	37774	No
227	GOM_NL__2PRFIN20090521_235930_000000372079_00145_37774_6887.N1	21-MAY-2009 23:59:30	Bright	36.500	102	24Alp Ser	2.6000	4250.0	73	37774	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.

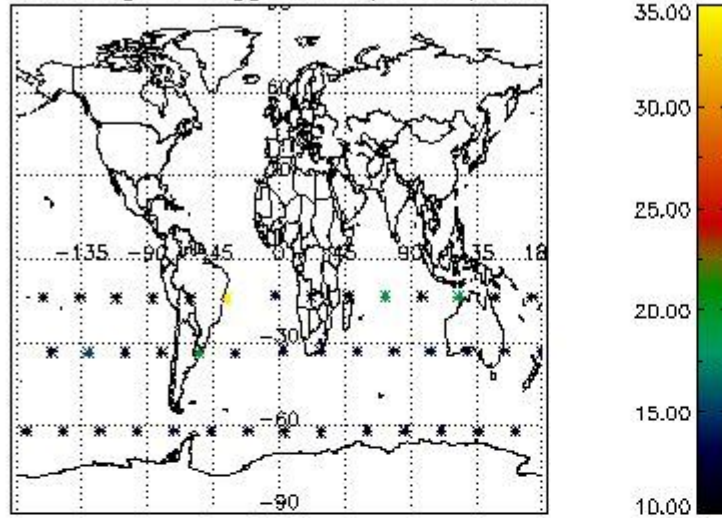
#### 3.1 Plot quality information per product (time dependant)



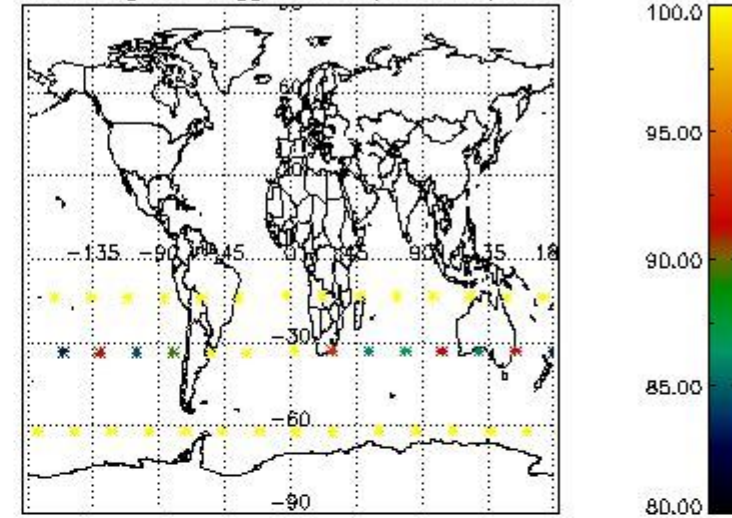
#### 3.2 Plot quality information per product (world map)



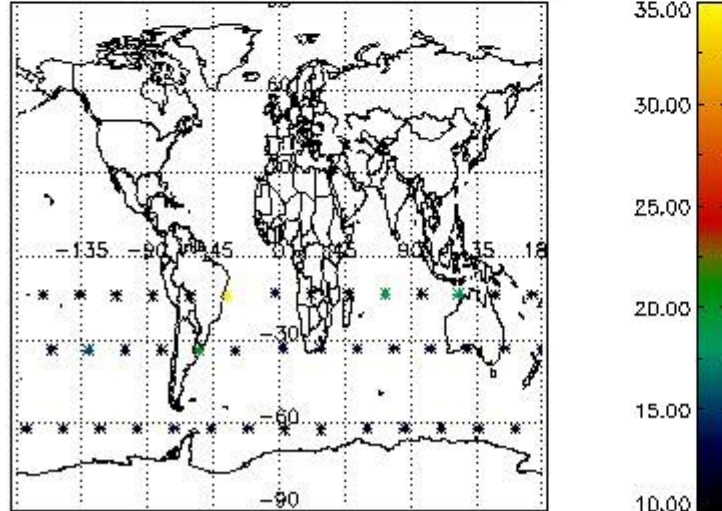
Percentage of flagged data per O3 profile



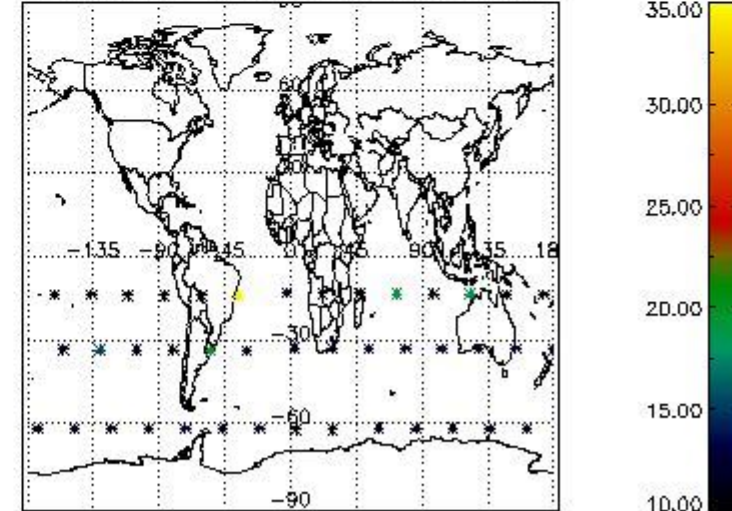
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile



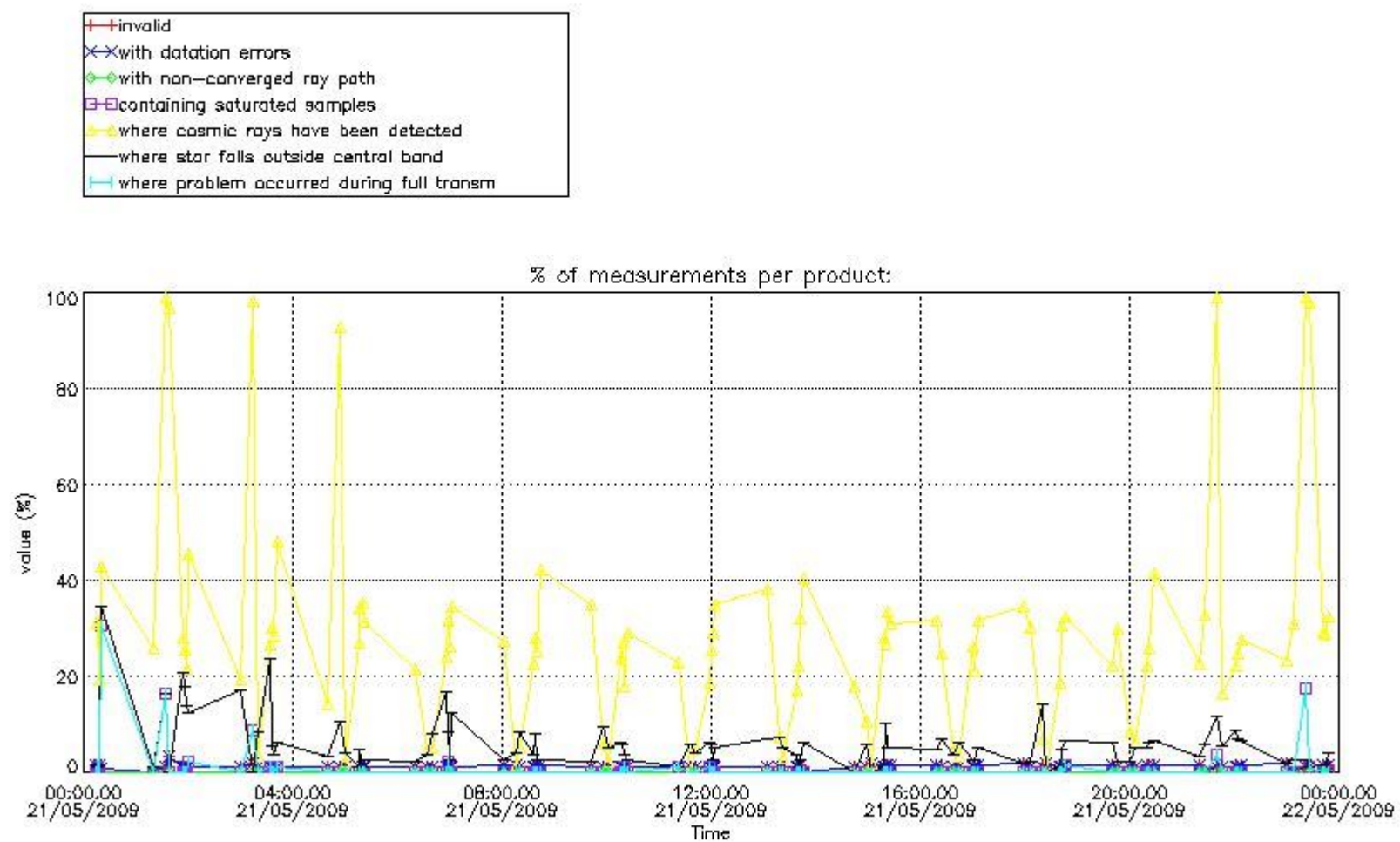
#### 4. Level 1 quality information per product

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.

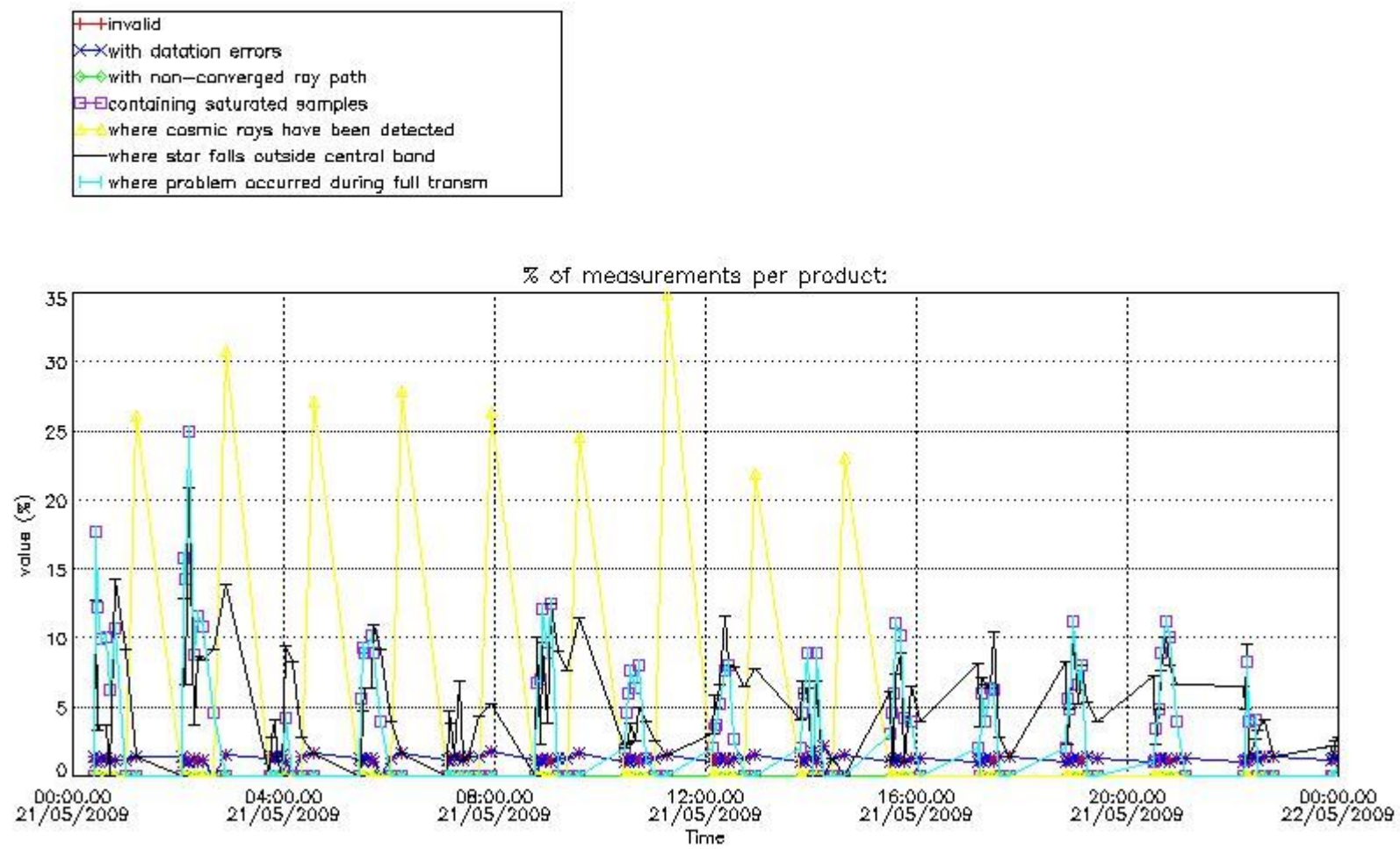
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

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





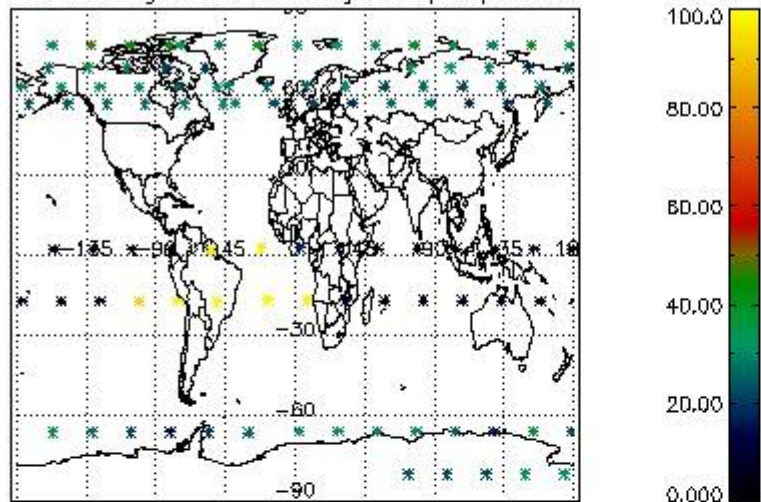
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



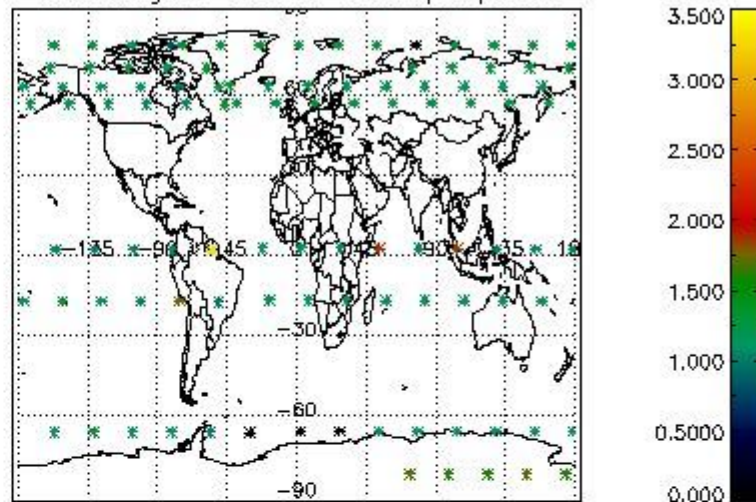
*4.2 Plot quality information per product coming from level 1b processing (world map)*

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

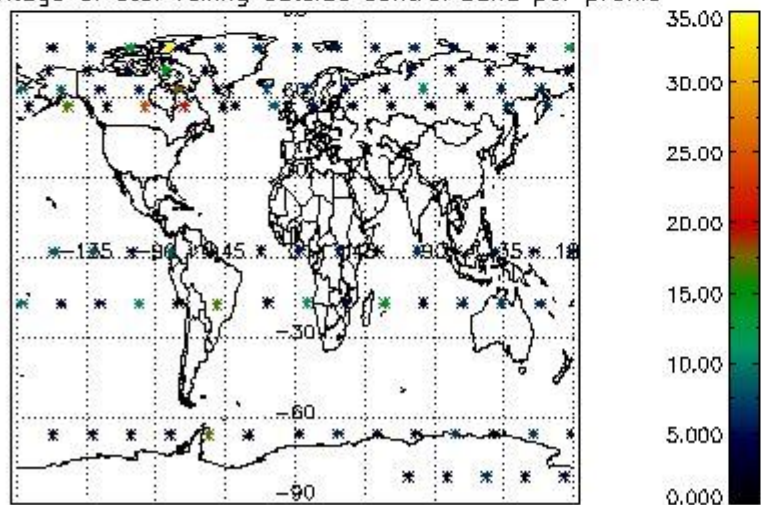
Percentage of cosmic ray hits per profile



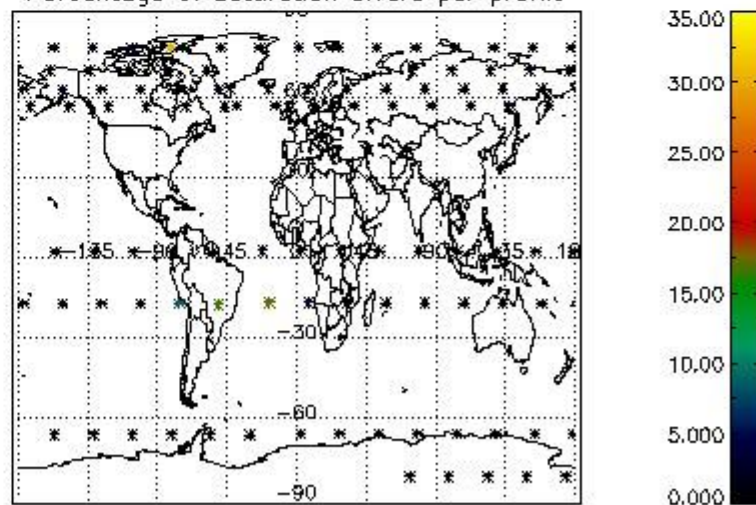
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



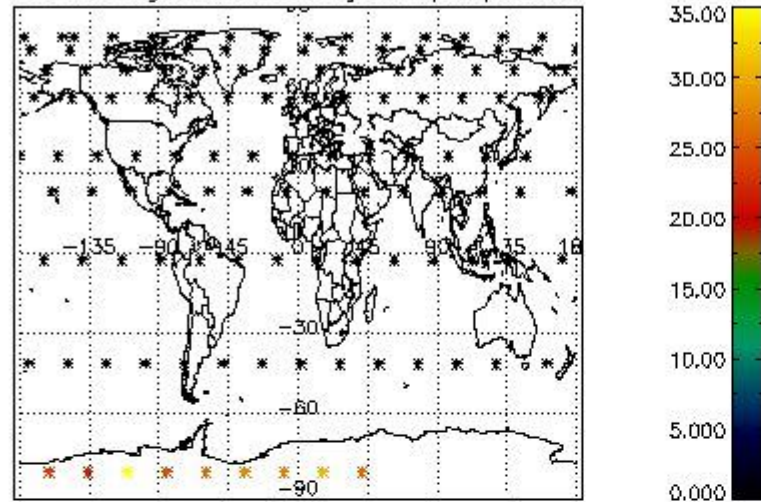
Percentage of saturation errors per profile



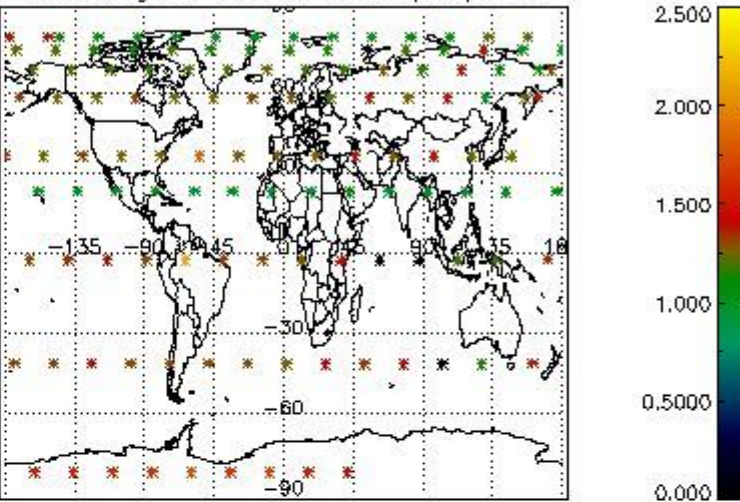
4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



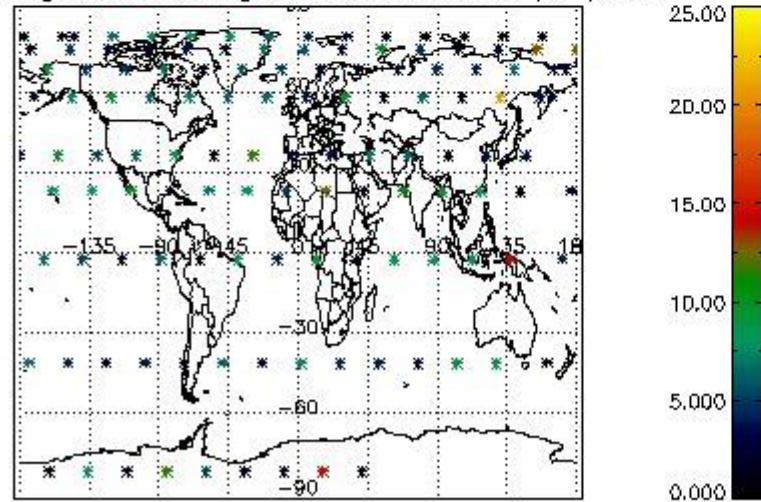
Percentage of cosmic ray hits per profile



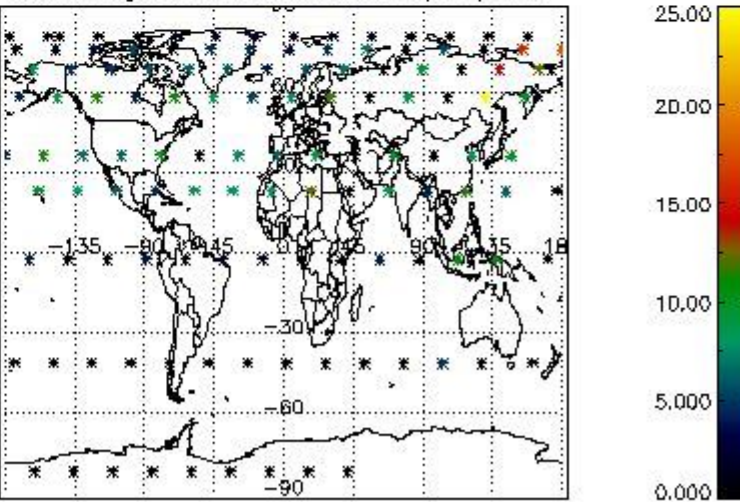
Percentage of datation errors per profile



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.

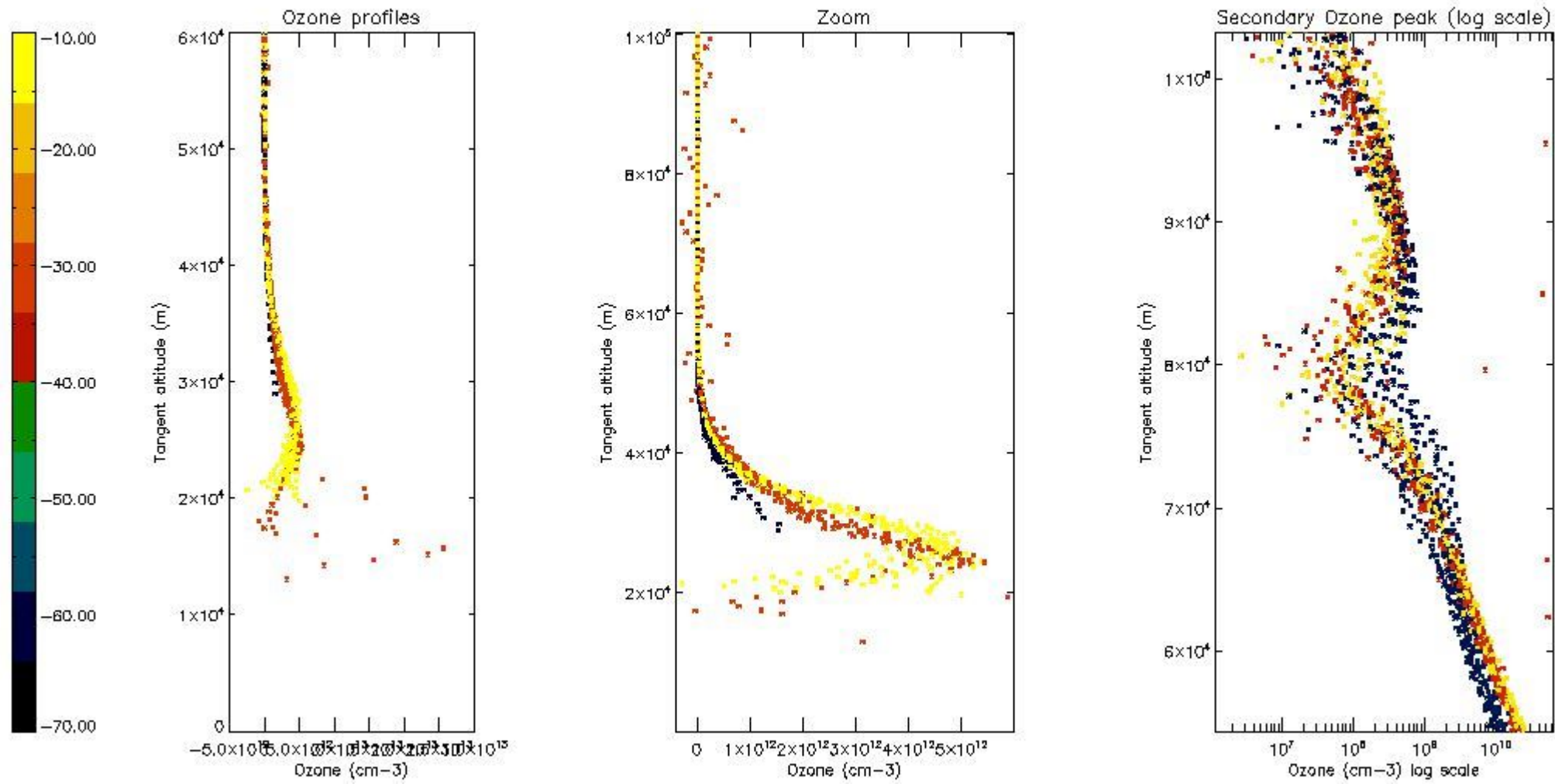
Criteria	% of total production
All STD	20
STD < 20	10



STD < 10	8
STD < 5	4

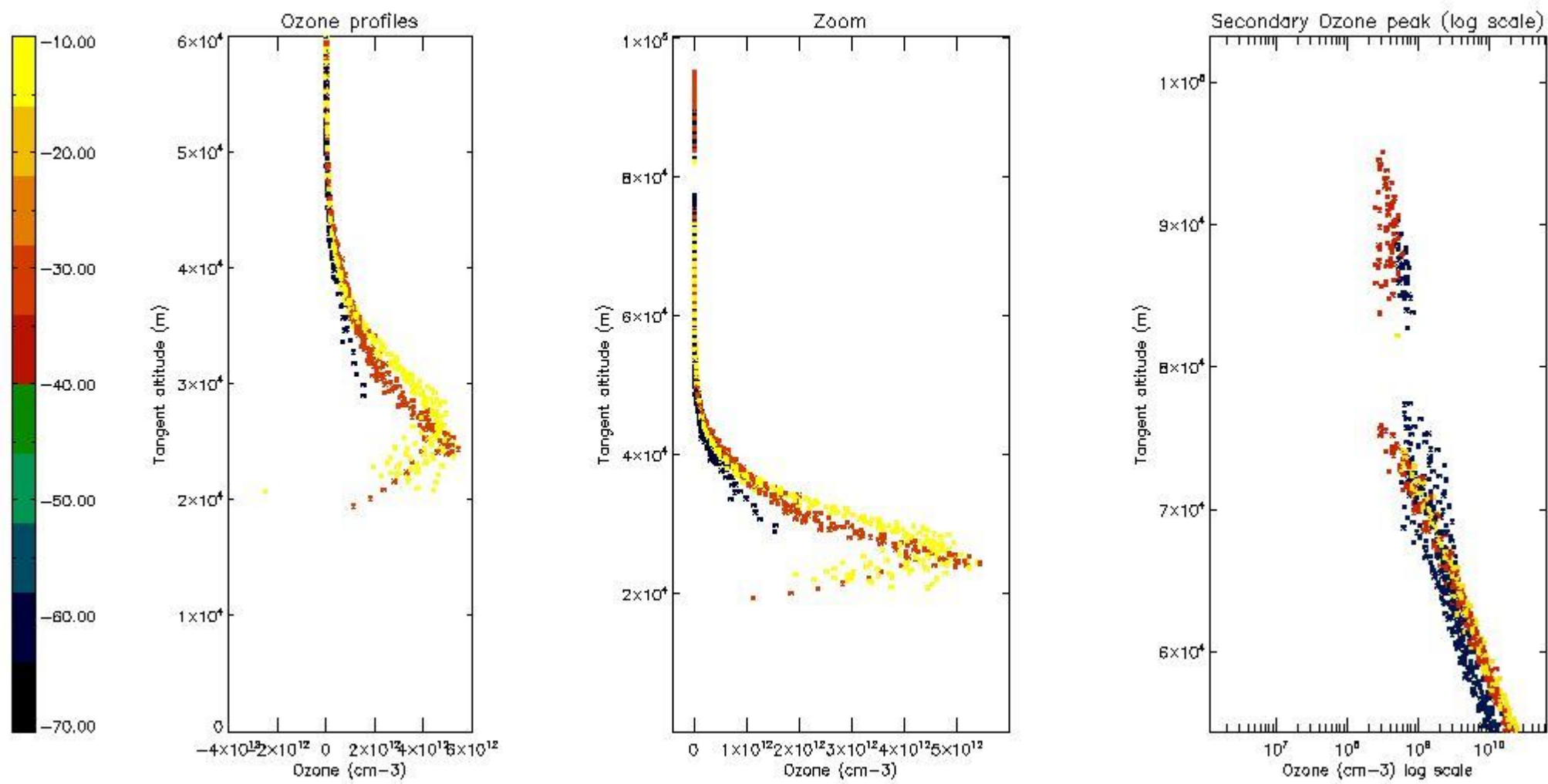
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



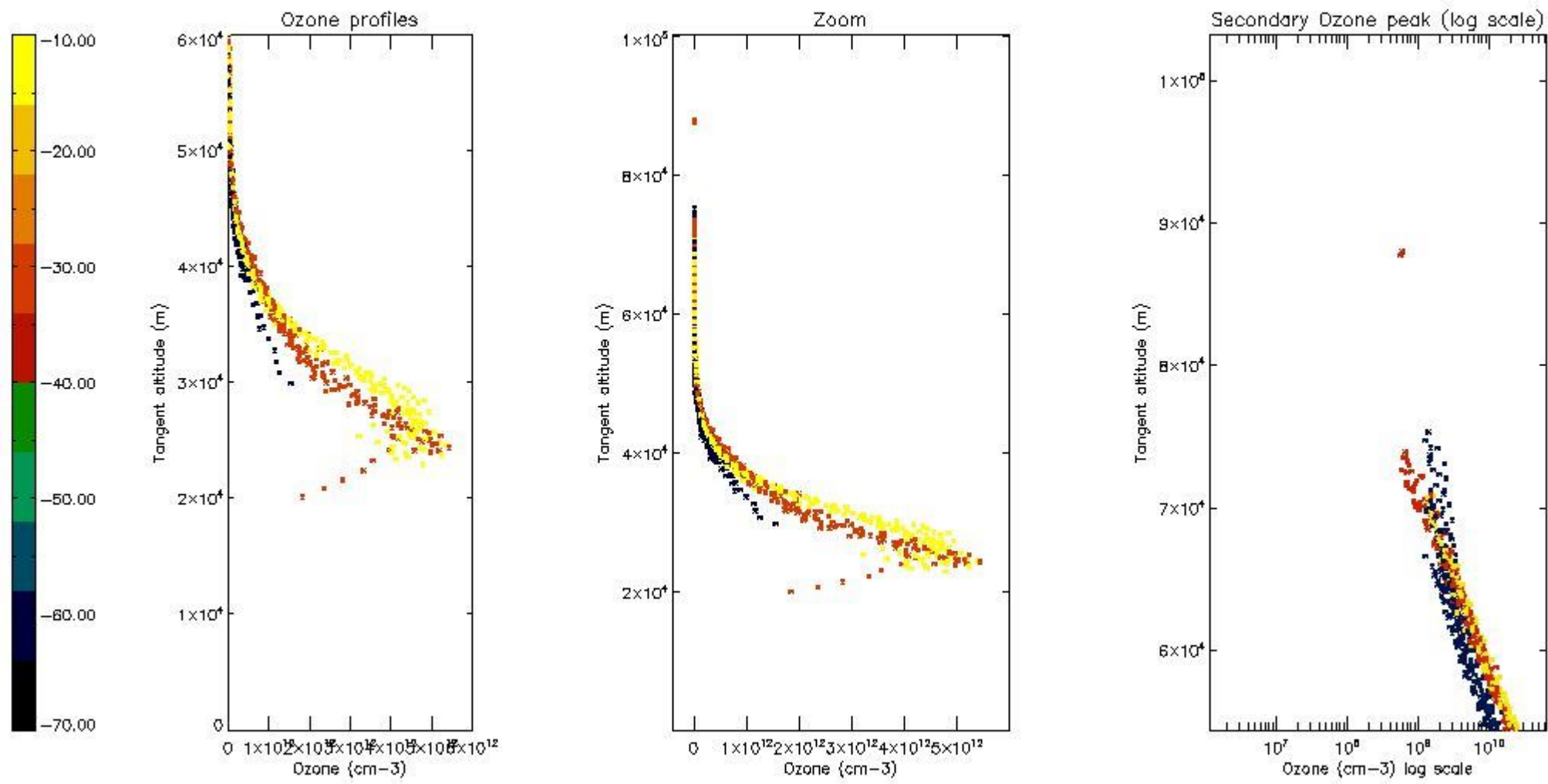
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



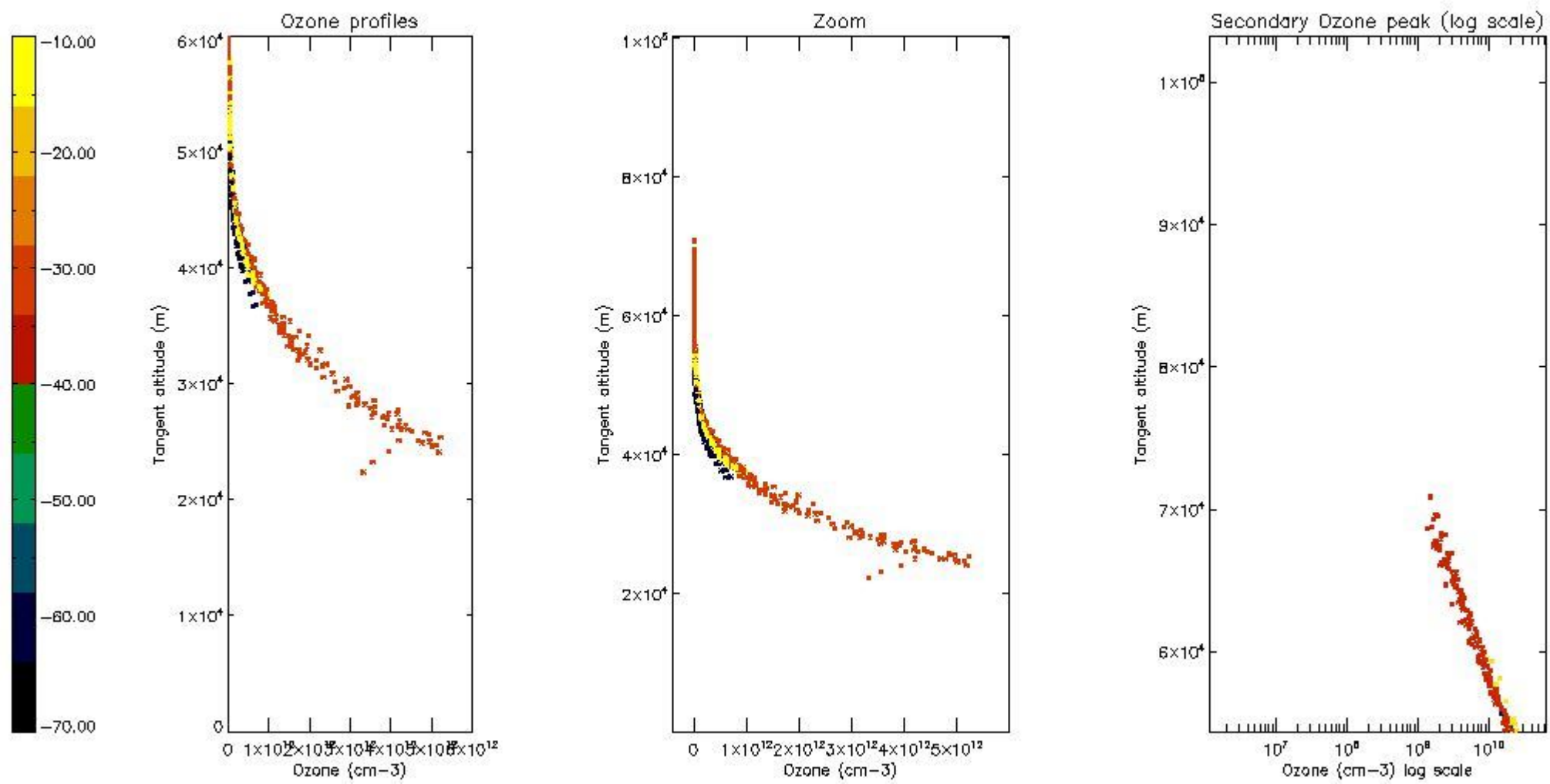
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



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

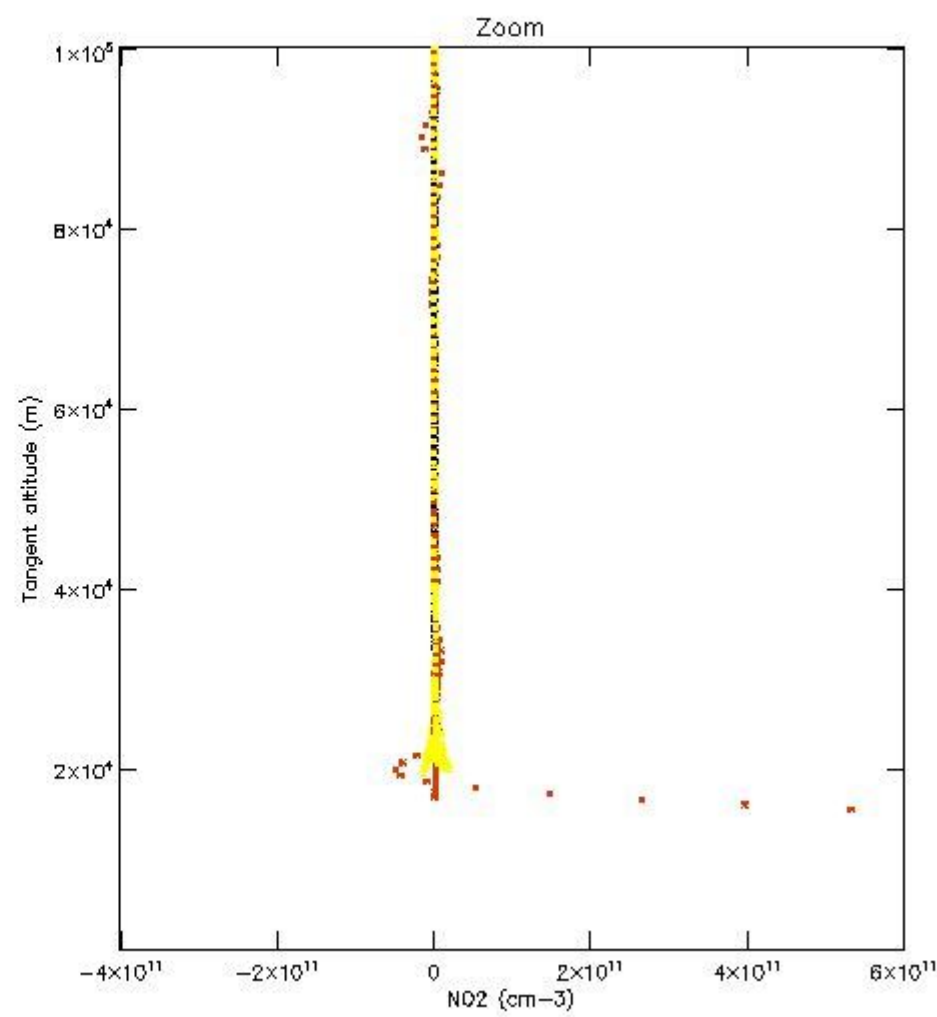
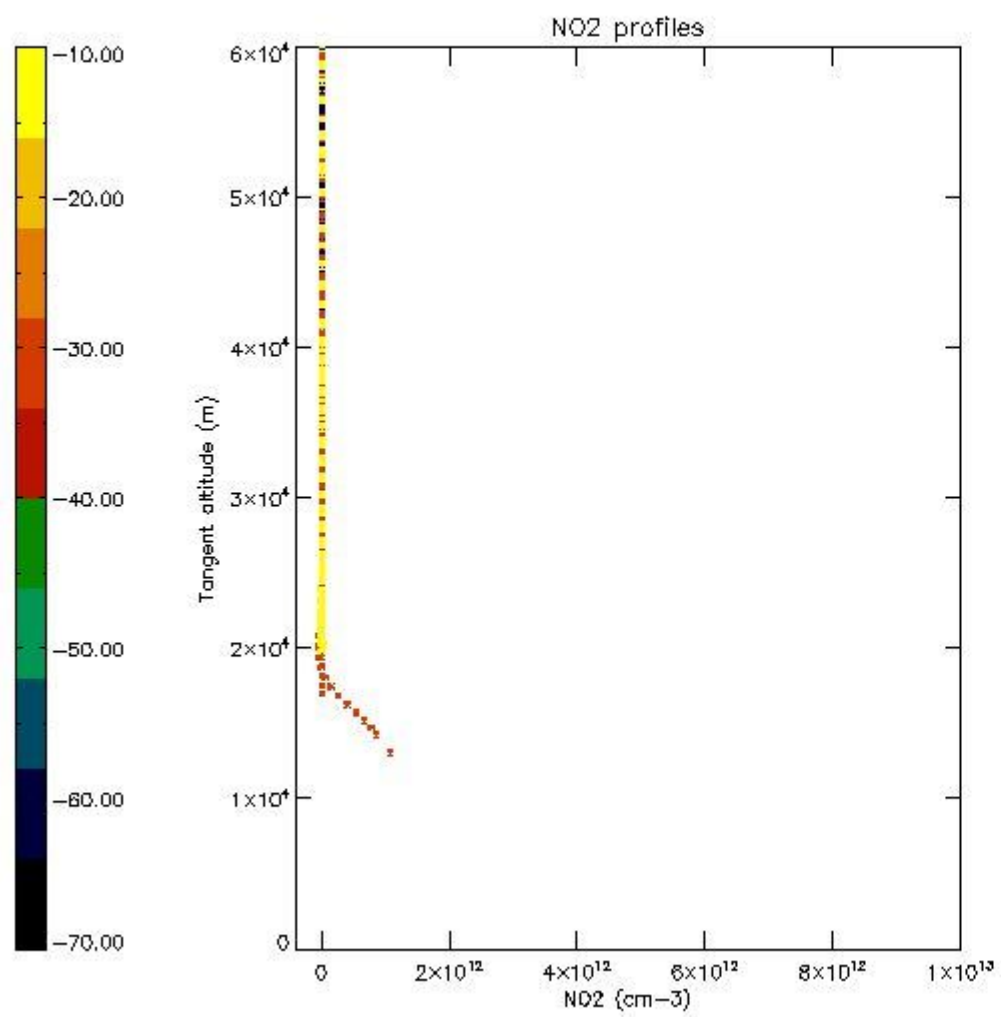
The colorbar represents the latitude.



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

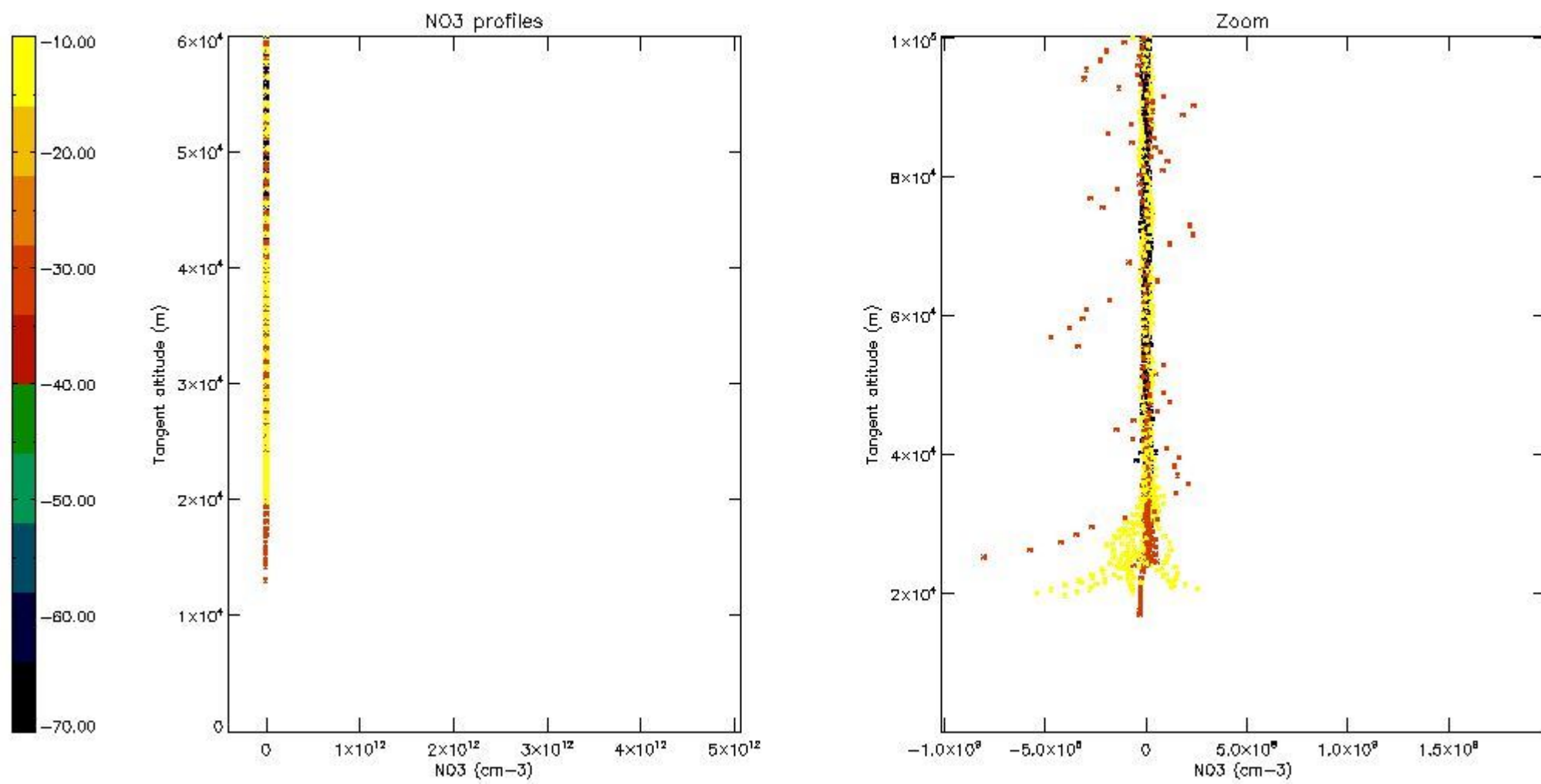
The colorbar represents the latitude.





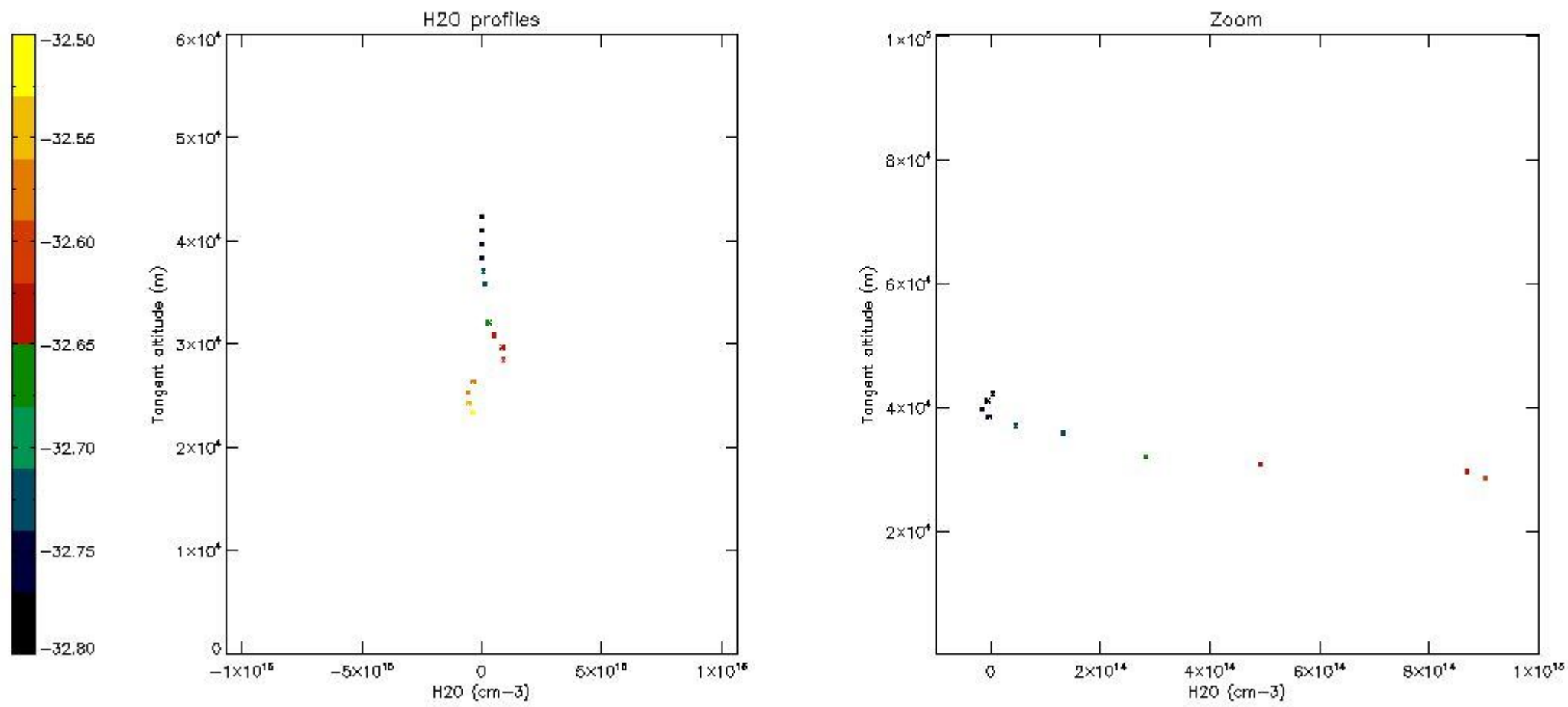
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

The colorbar represents the latitude.

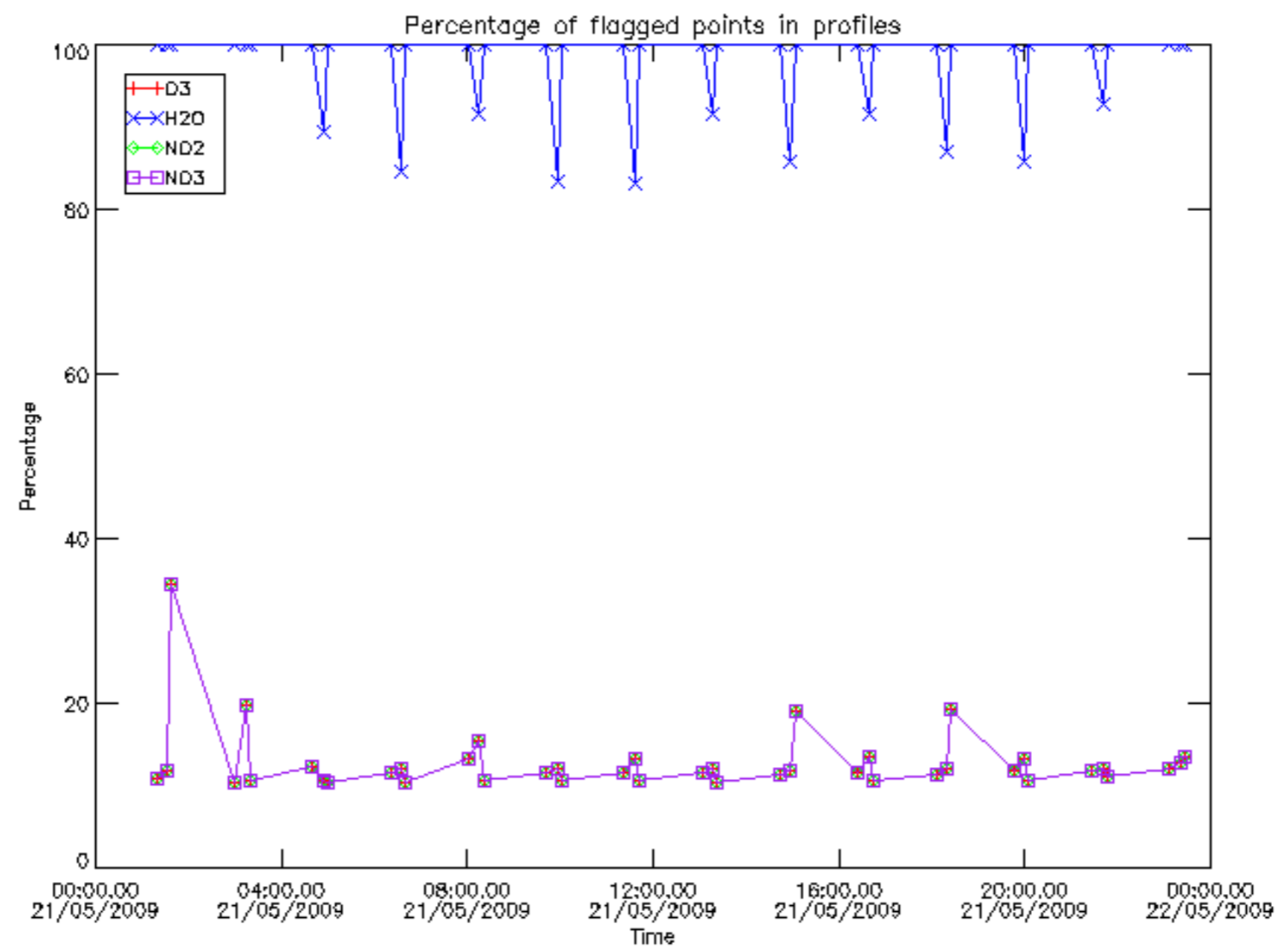


## 6. Auxiliary Data Files used for the production reported in section 2

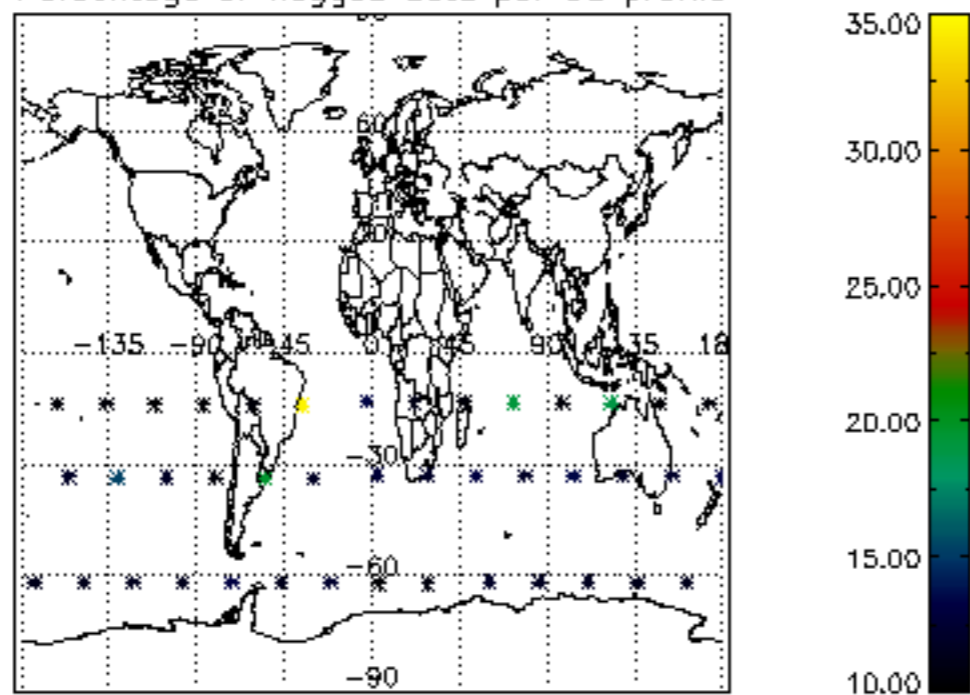
The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	21-MAY-2009 00:13:15
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	21-MAY-2009 00:13:15
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	21-MAY-2009 00:13:15

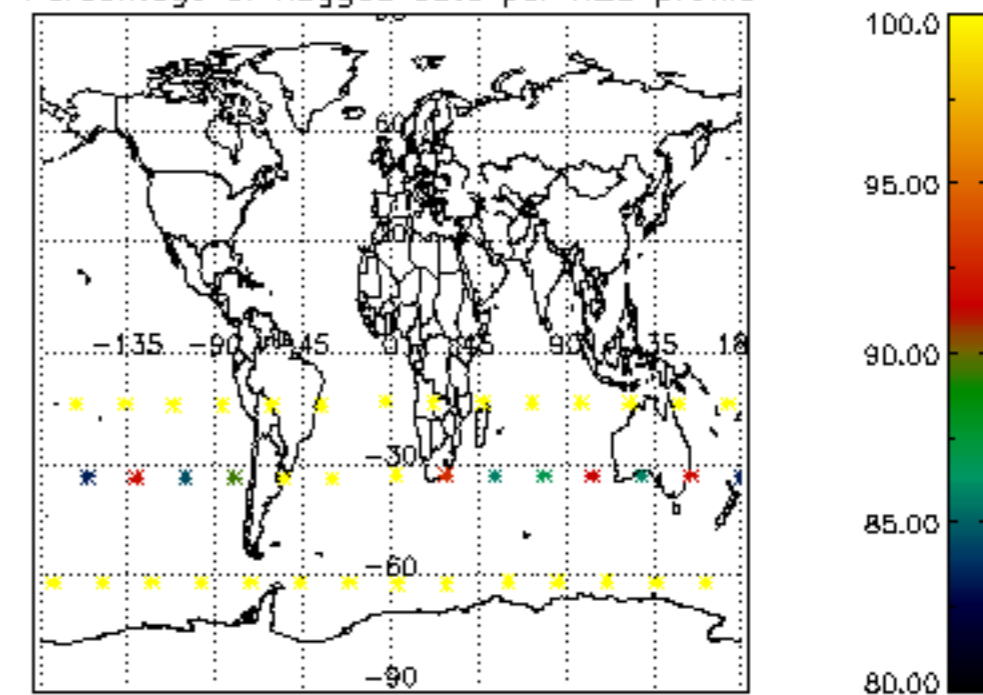




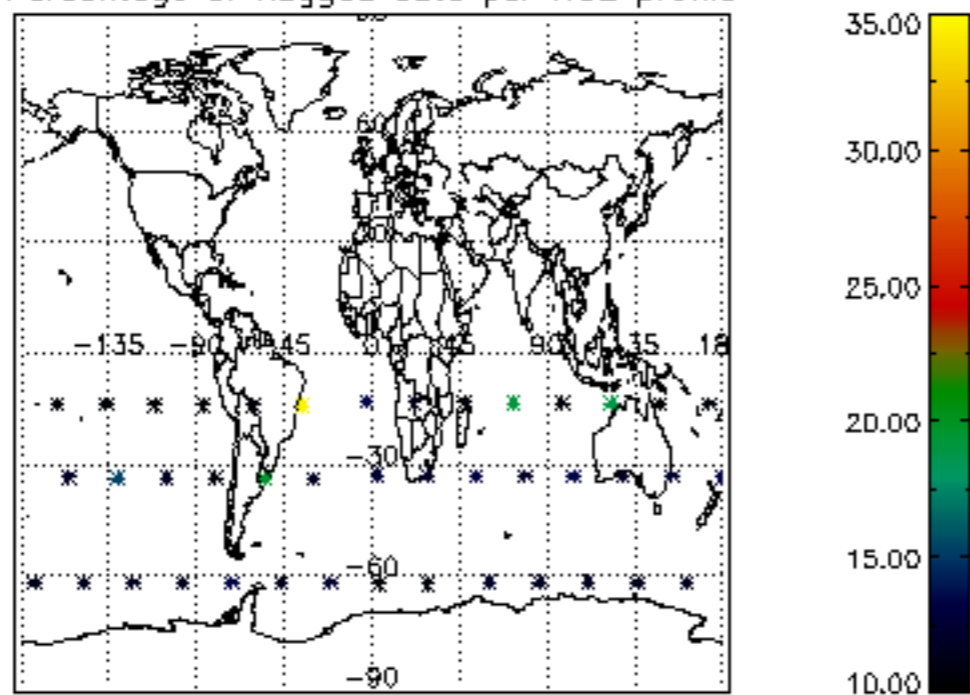
Percentage of flagged data per D3 profile



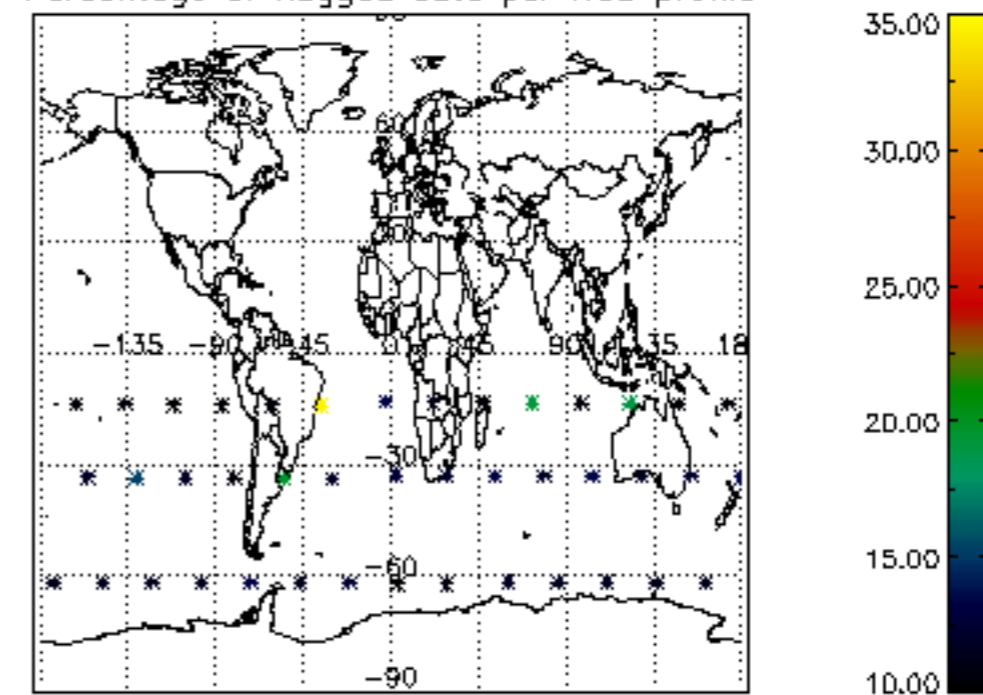
Percentage of flagged data per H2O profile

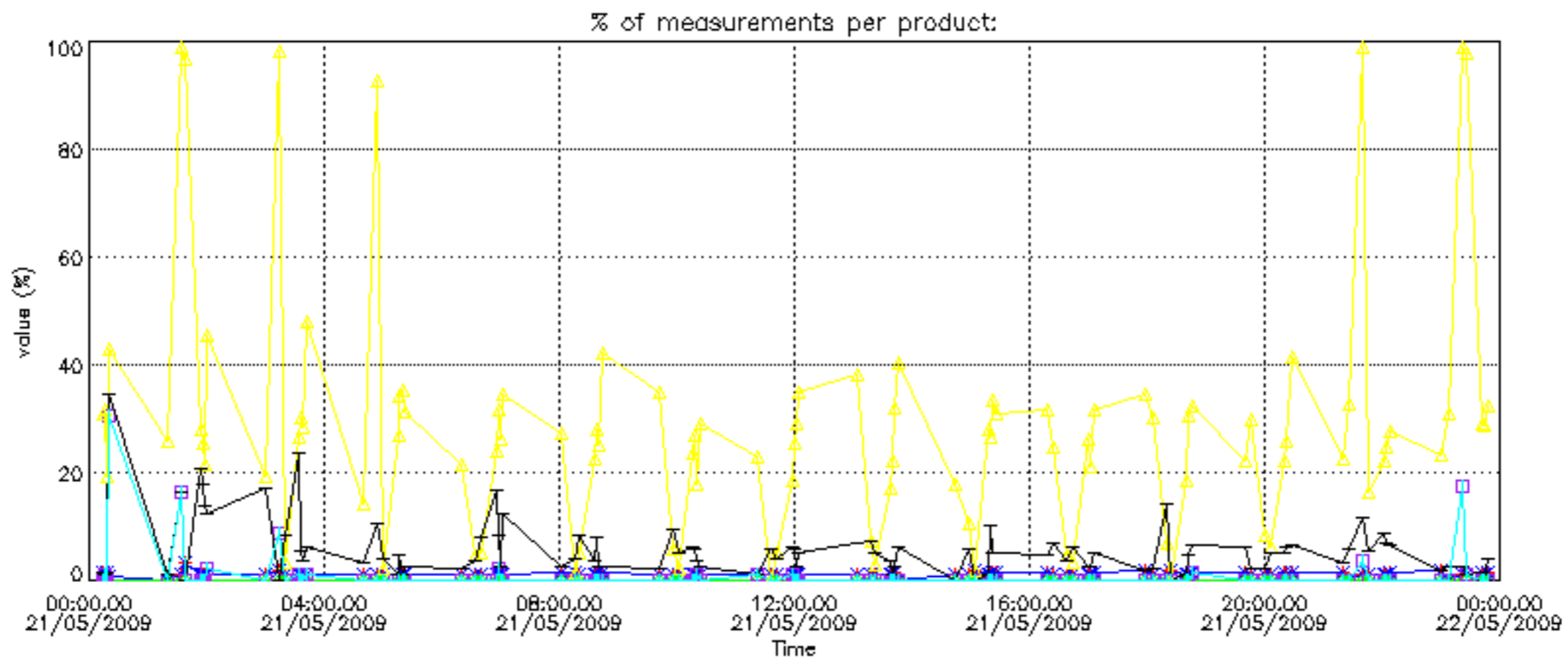


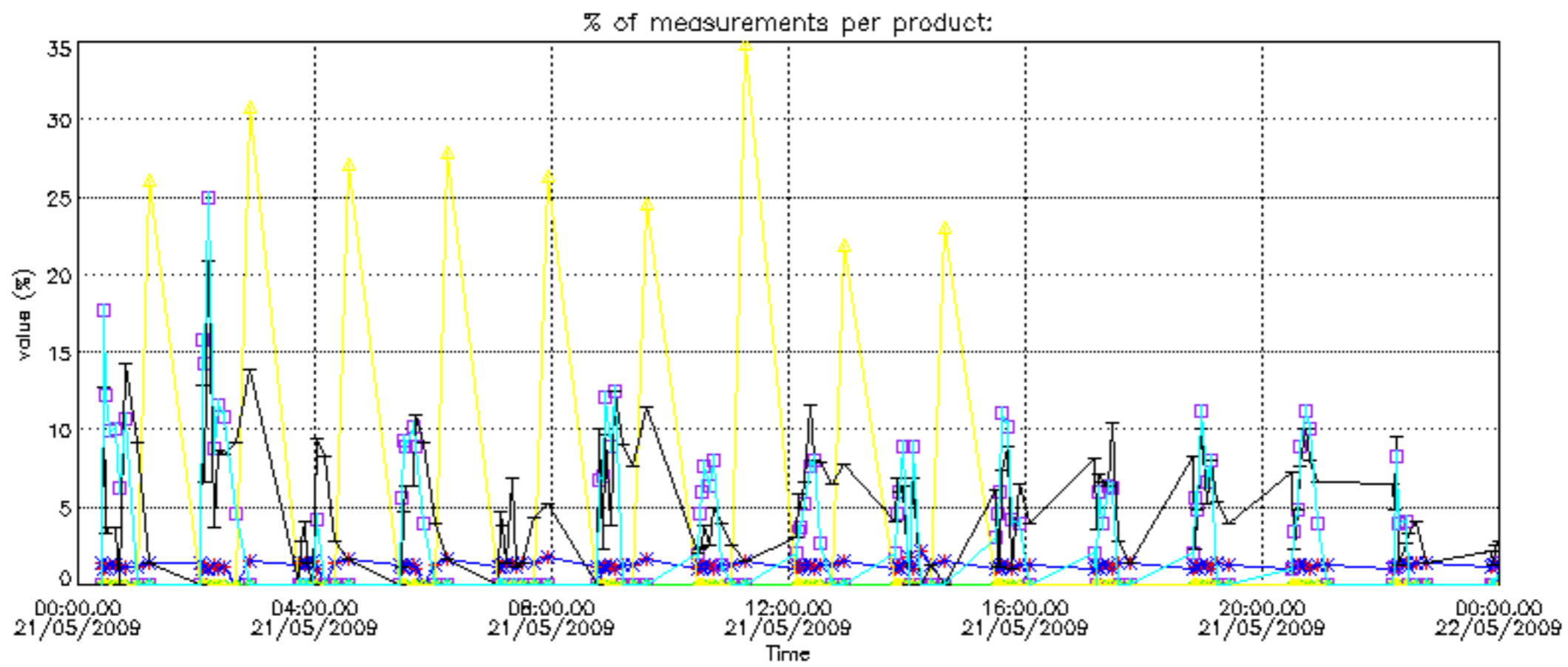
Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

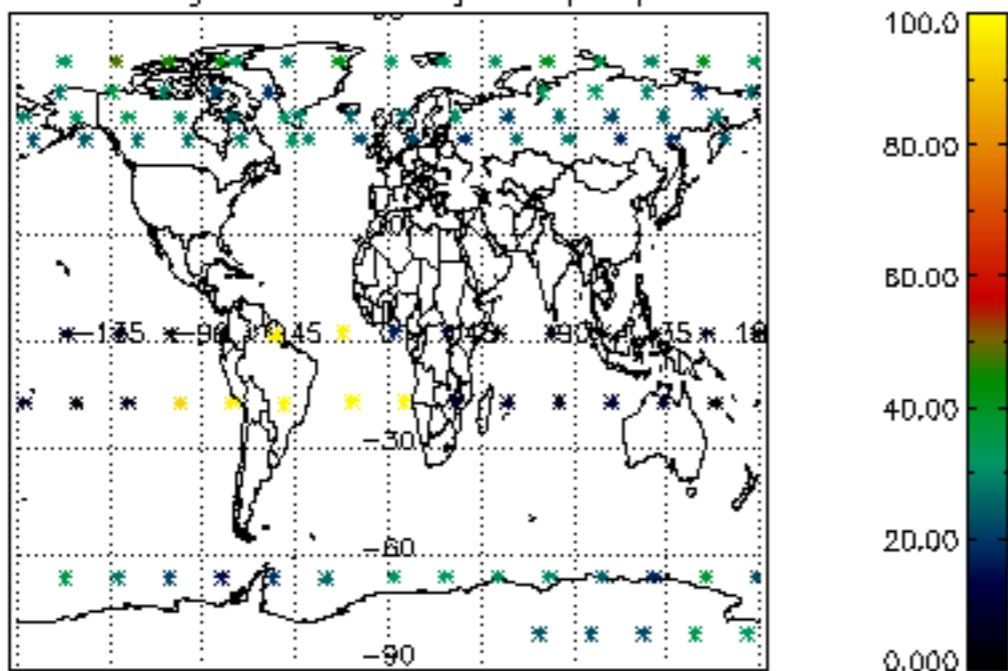




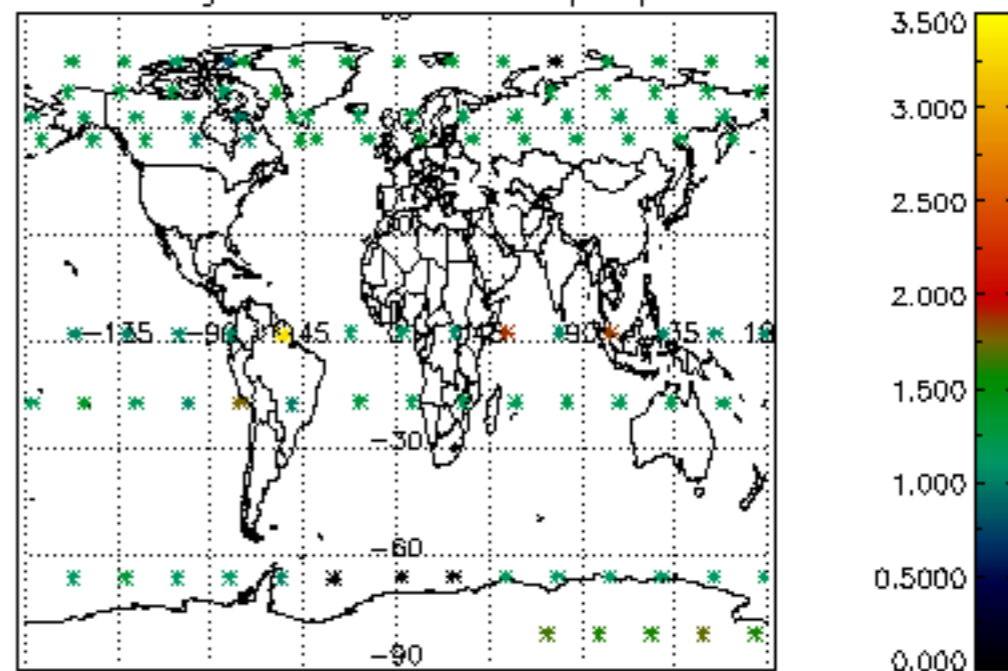




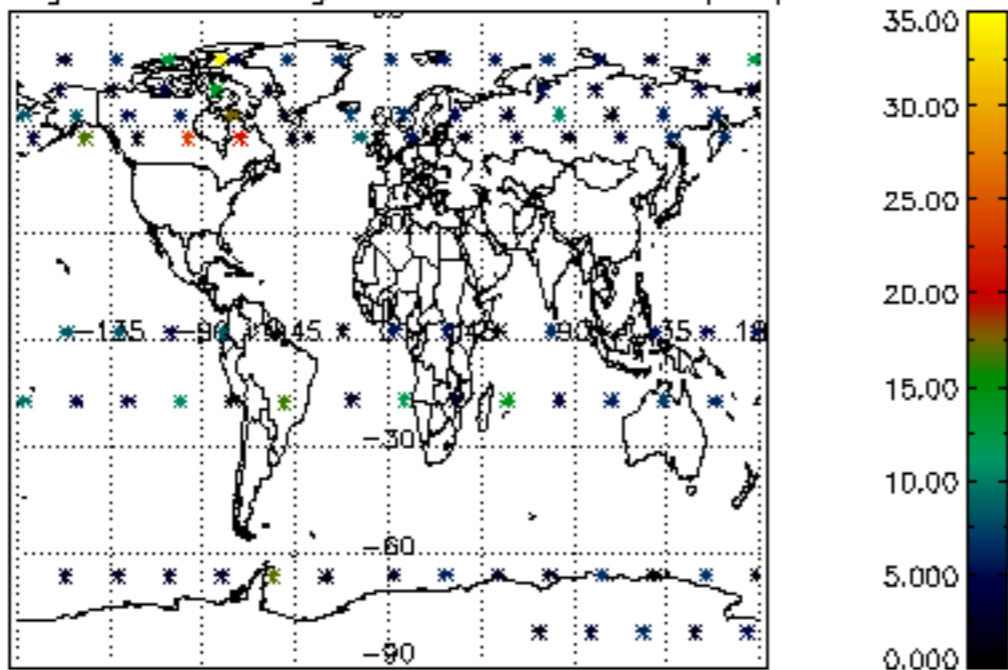
Percentage of cosmic ray hits per profile



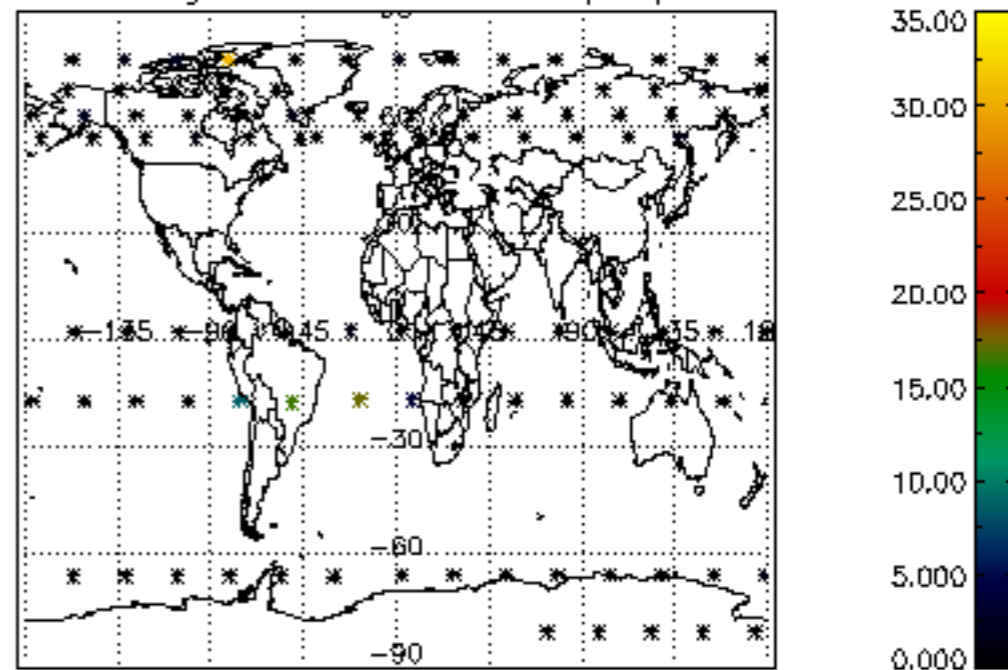
Percentage of datation errors per profile



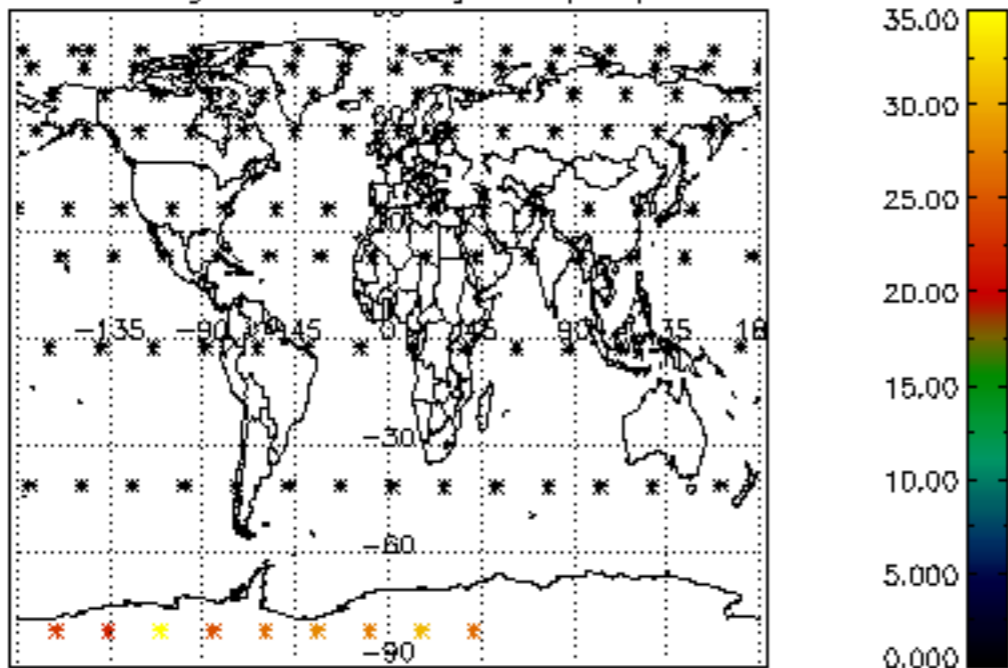
Percentage of star falling outside central band per profile



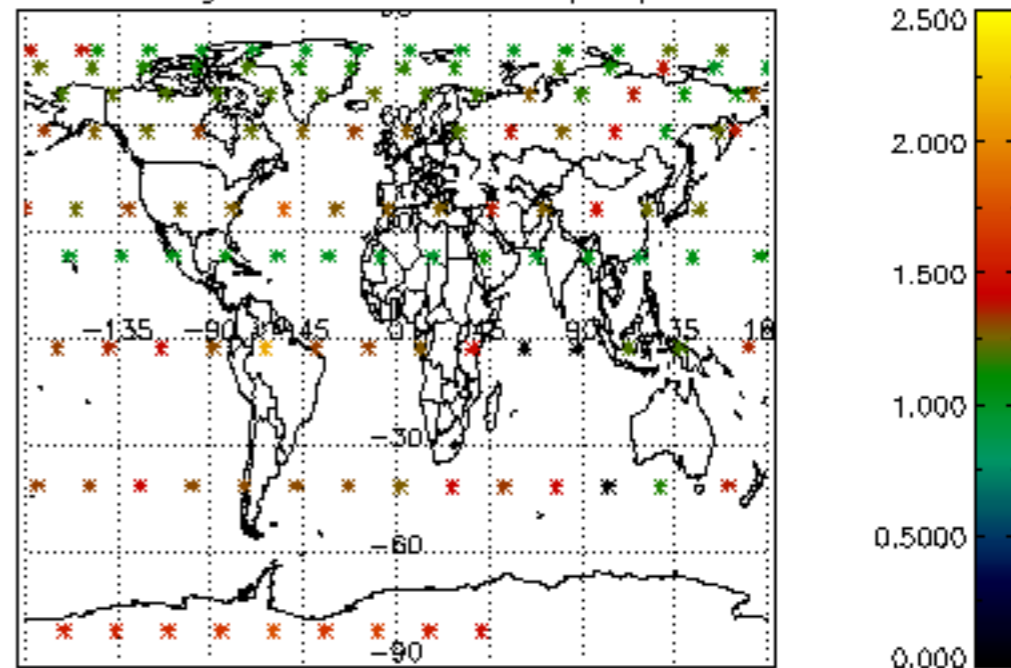
Percentage of saturation errors per profile



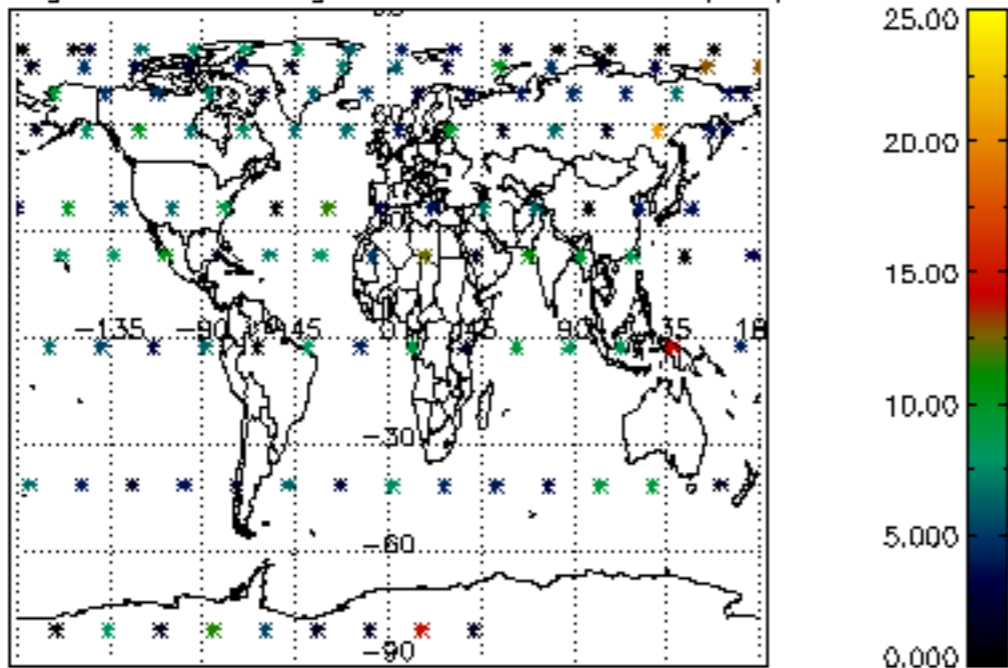
Percentage of cosmic ray hits per profile



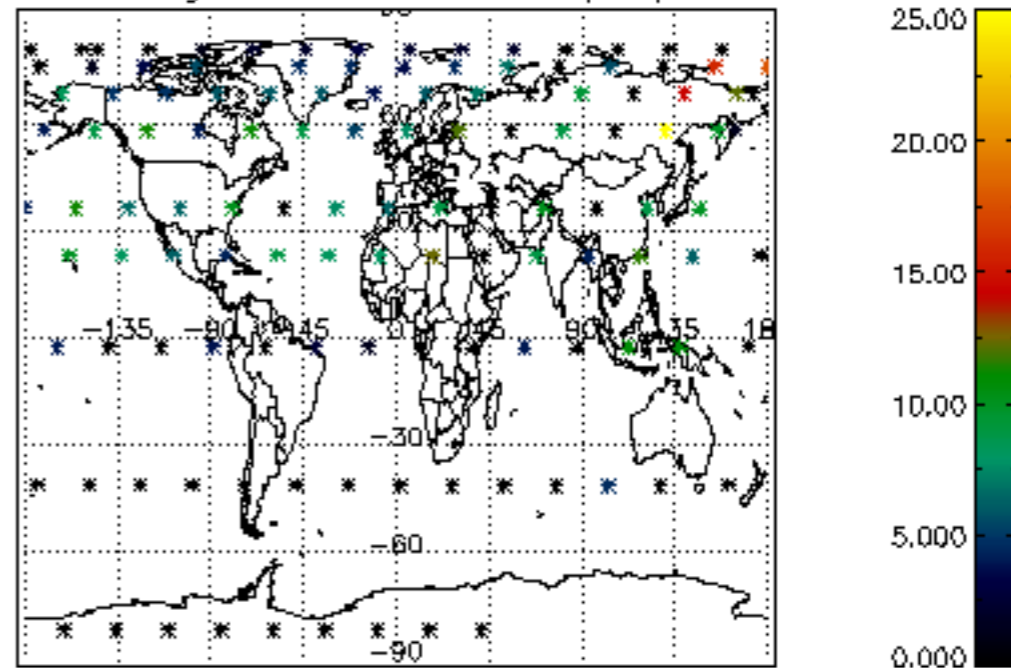
Percentage of datation errors per profile

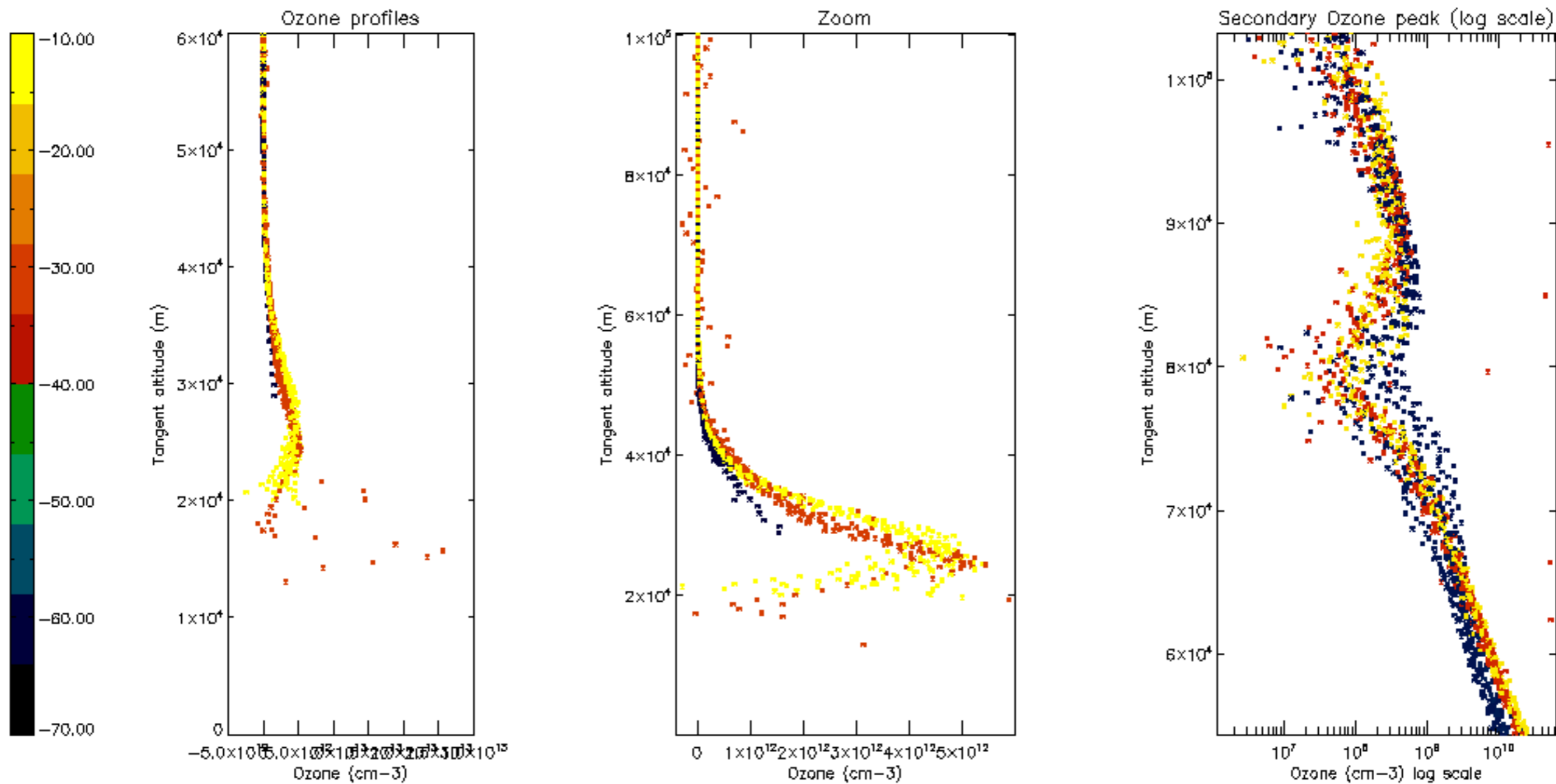


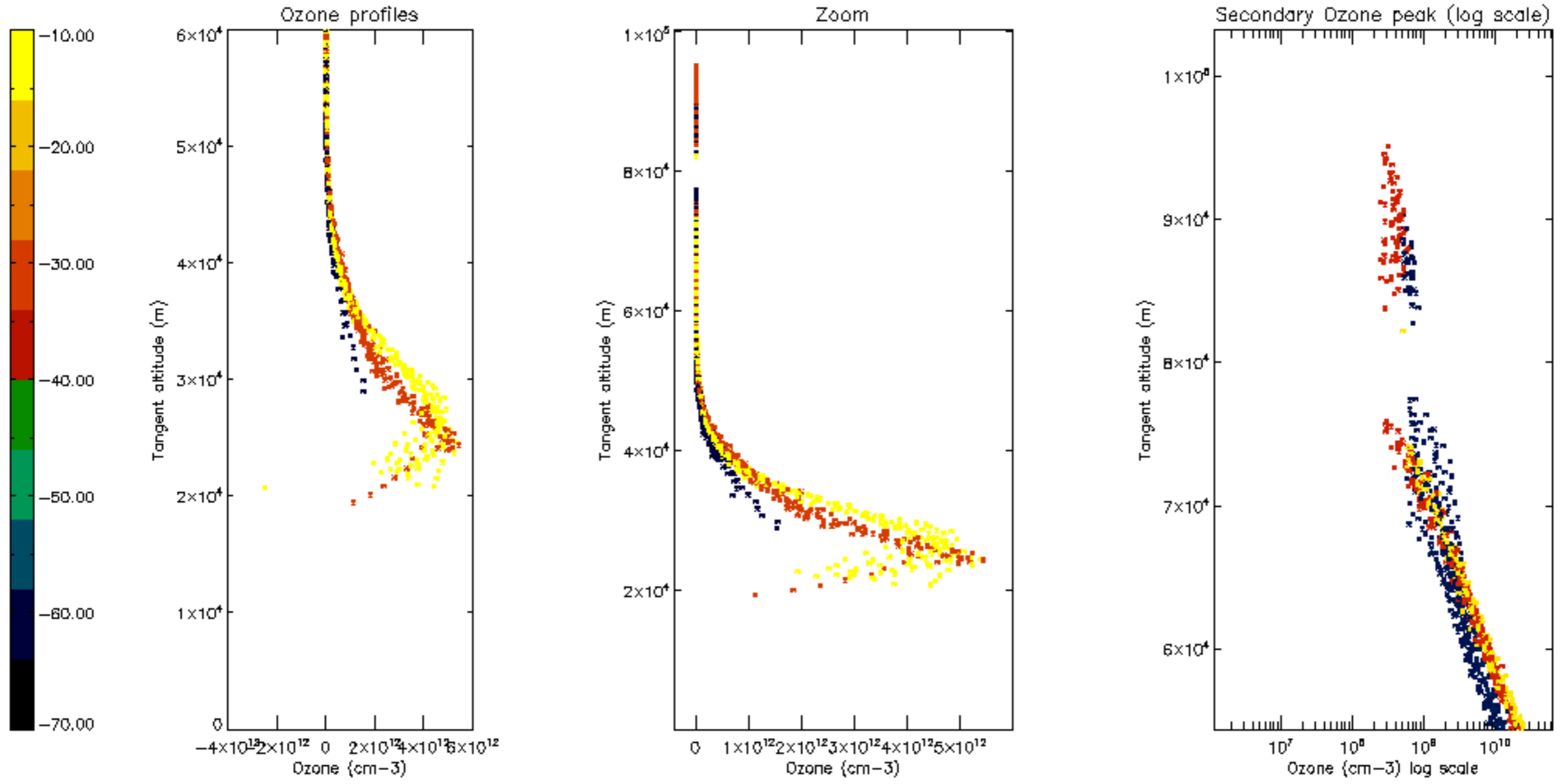
Percentage of star falling outside central band per profile



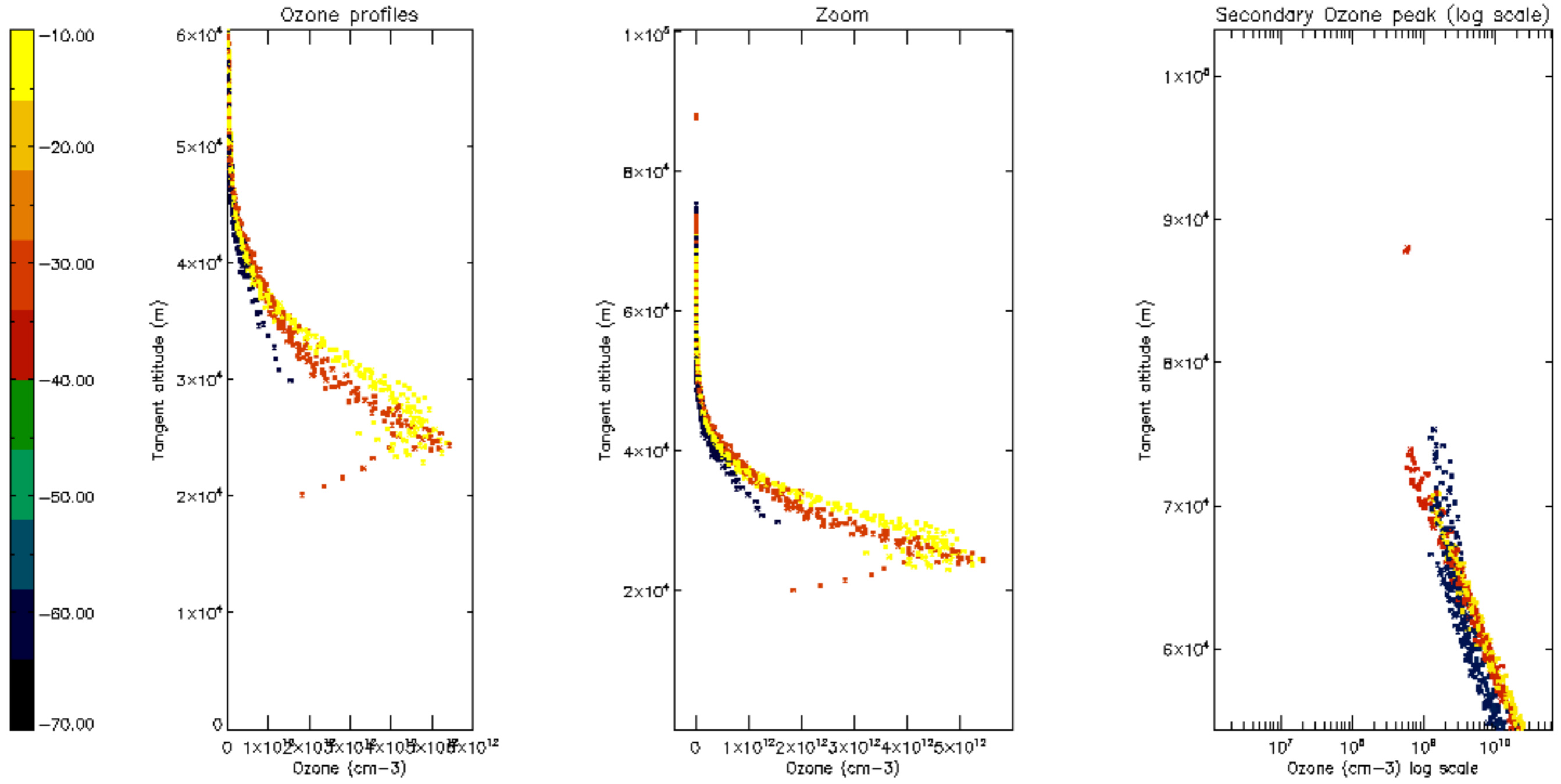
Percentage of saturation errors per profile

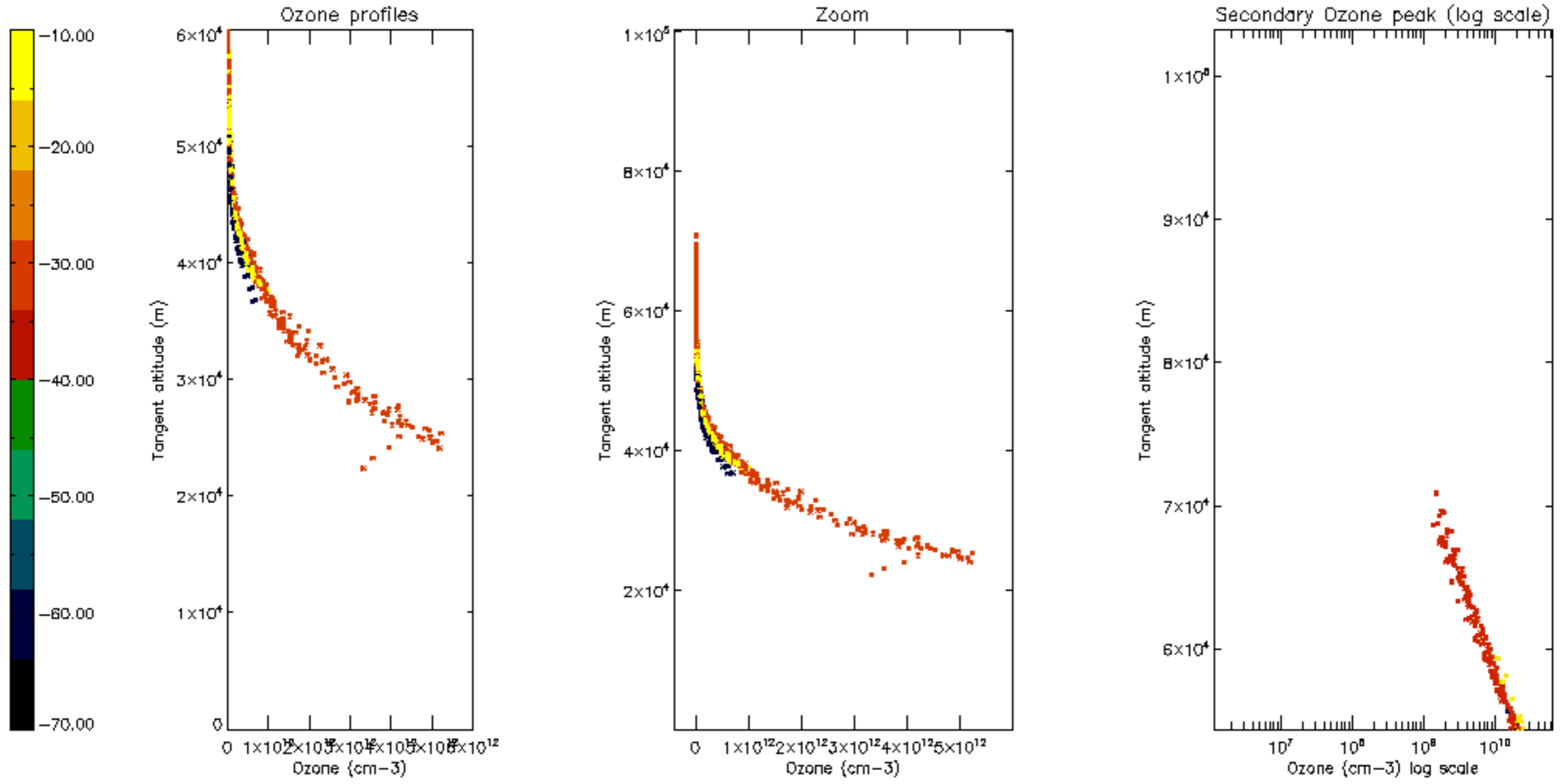


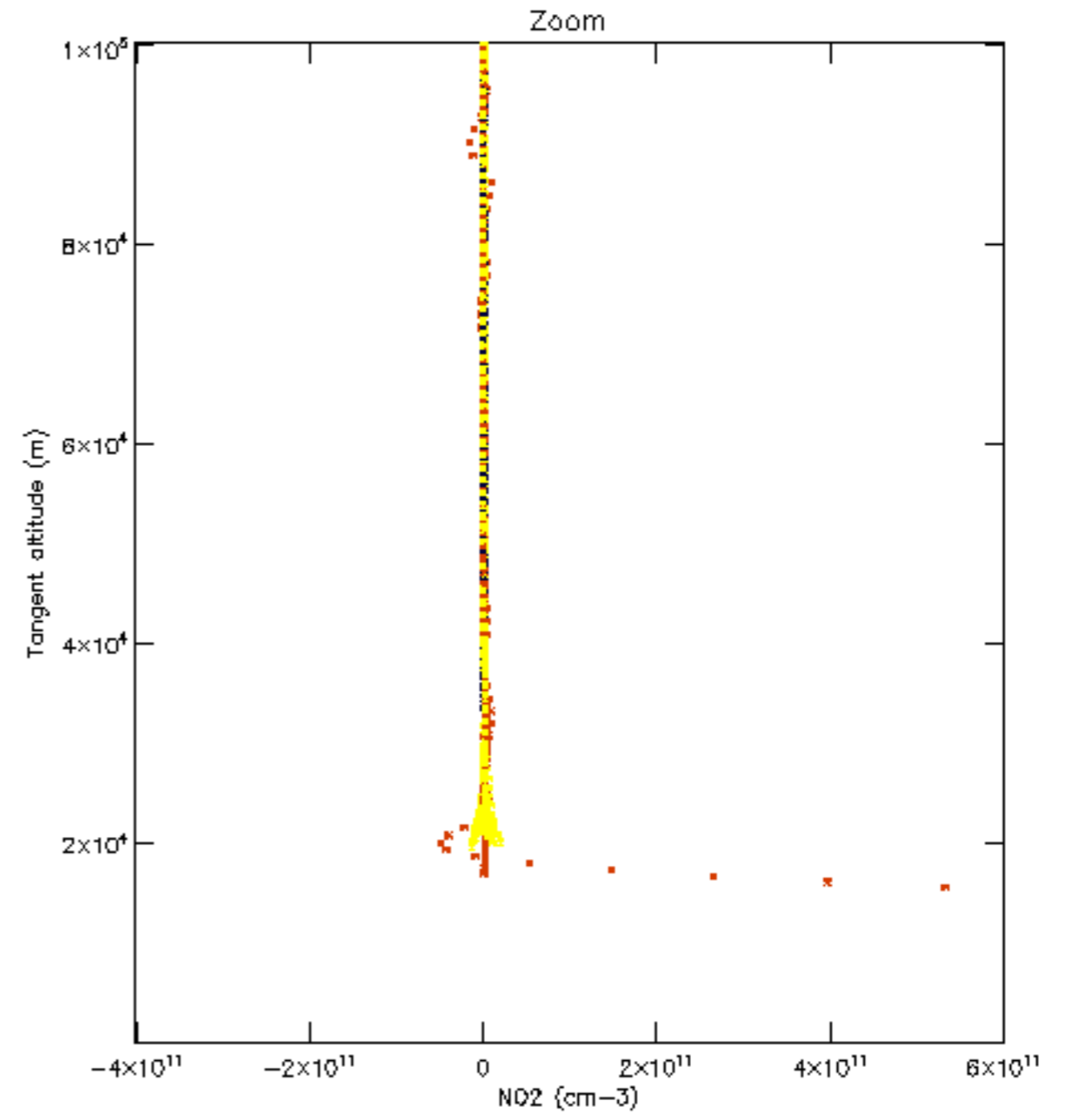
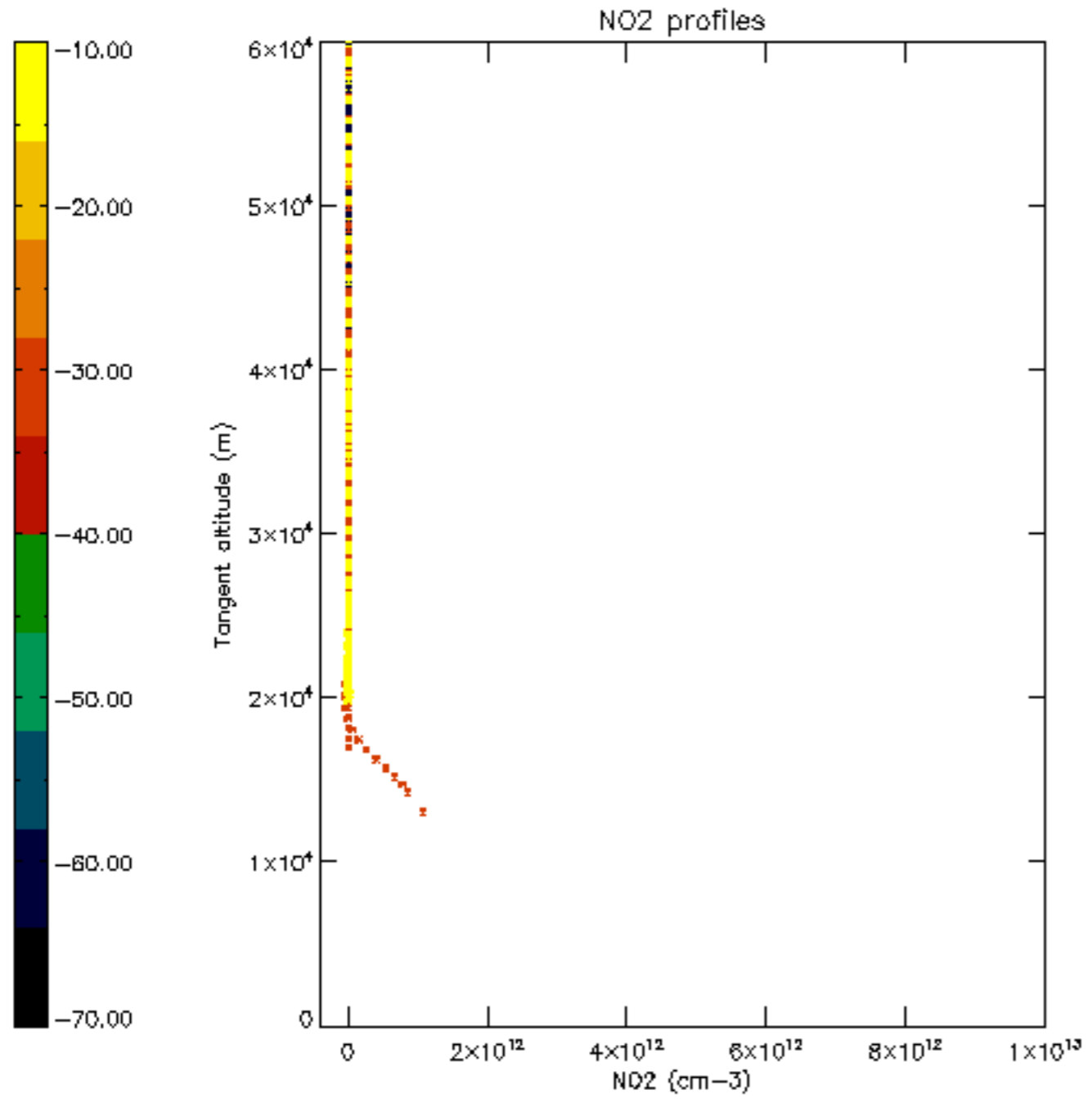


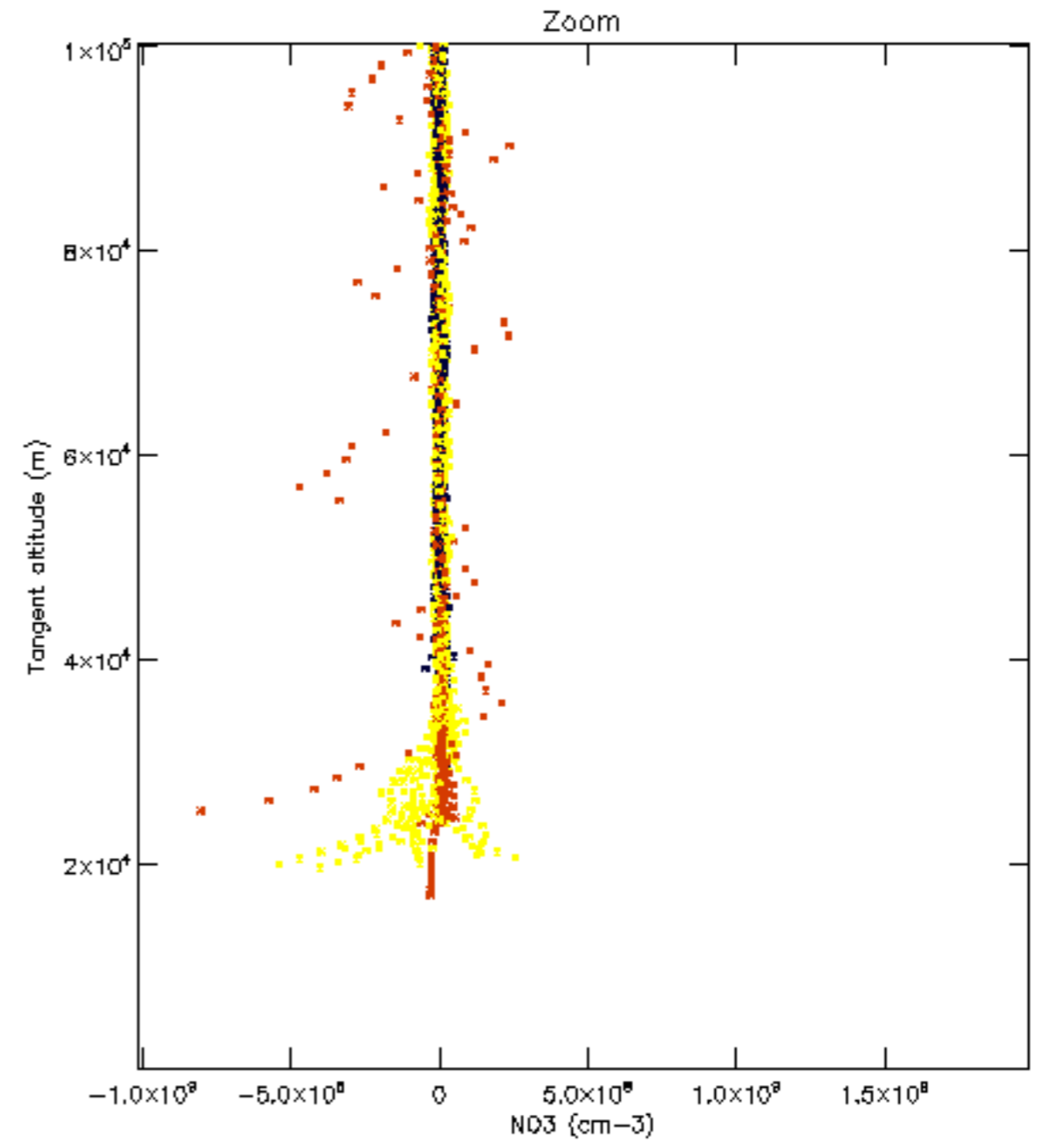
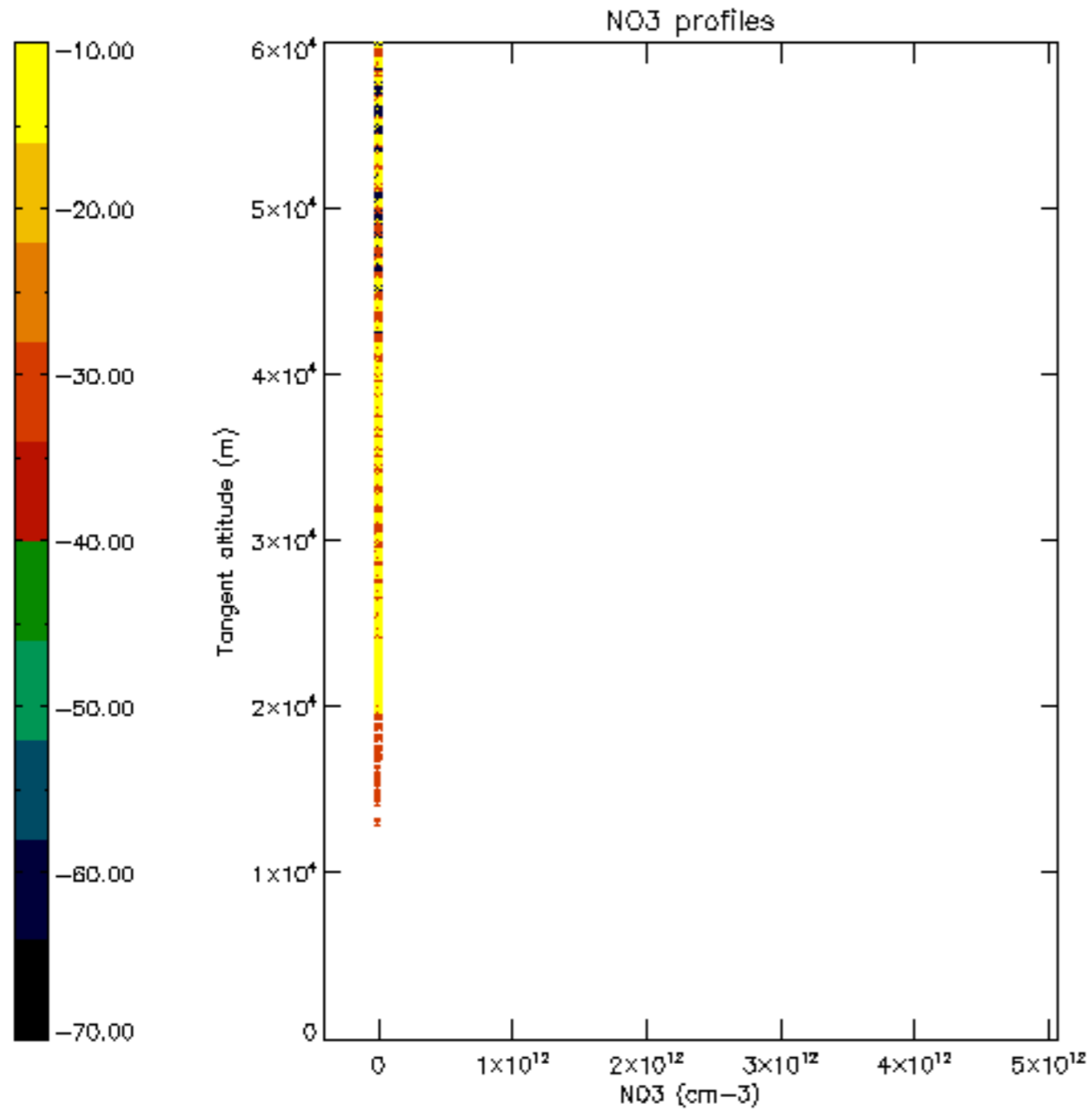




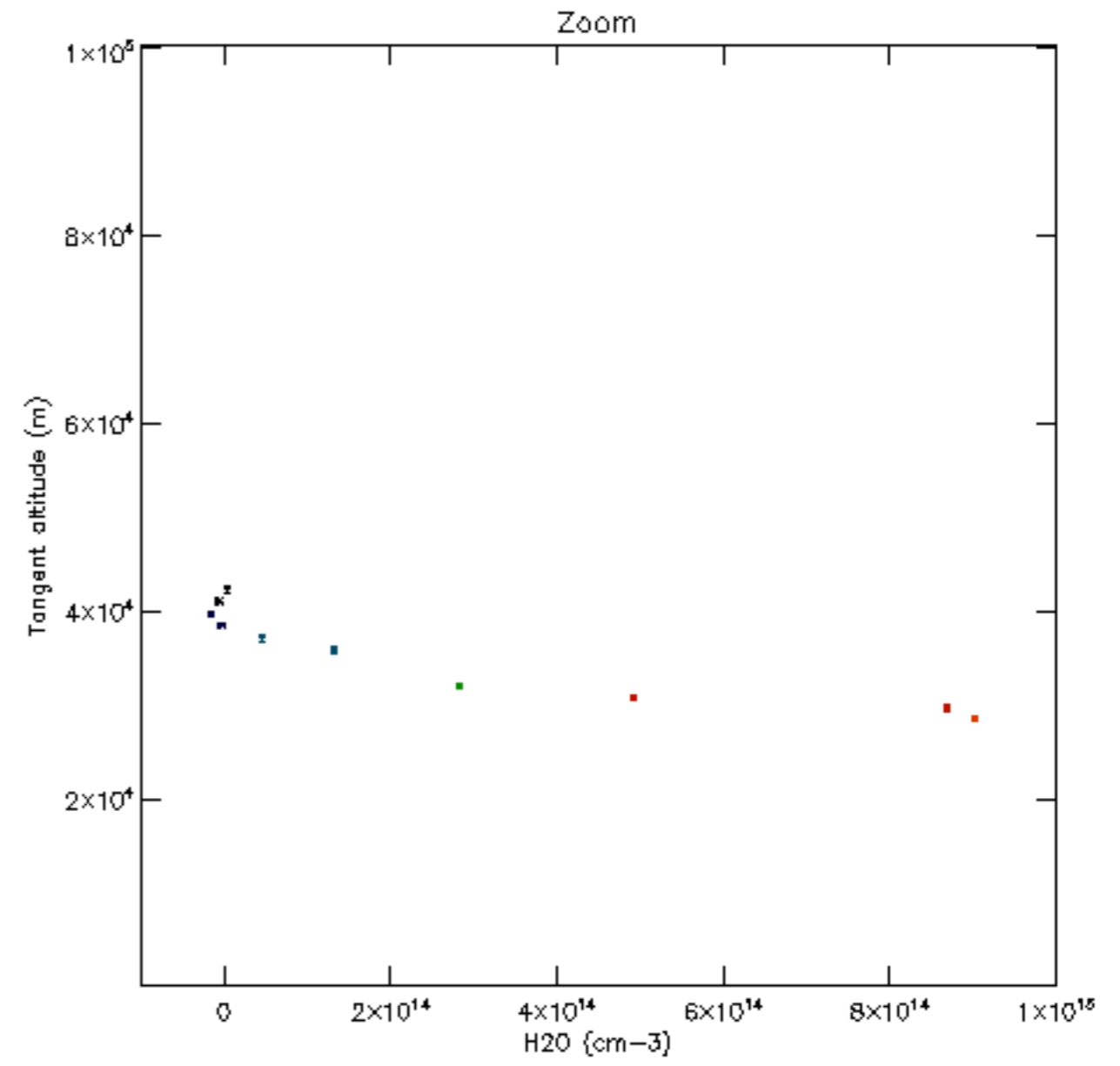
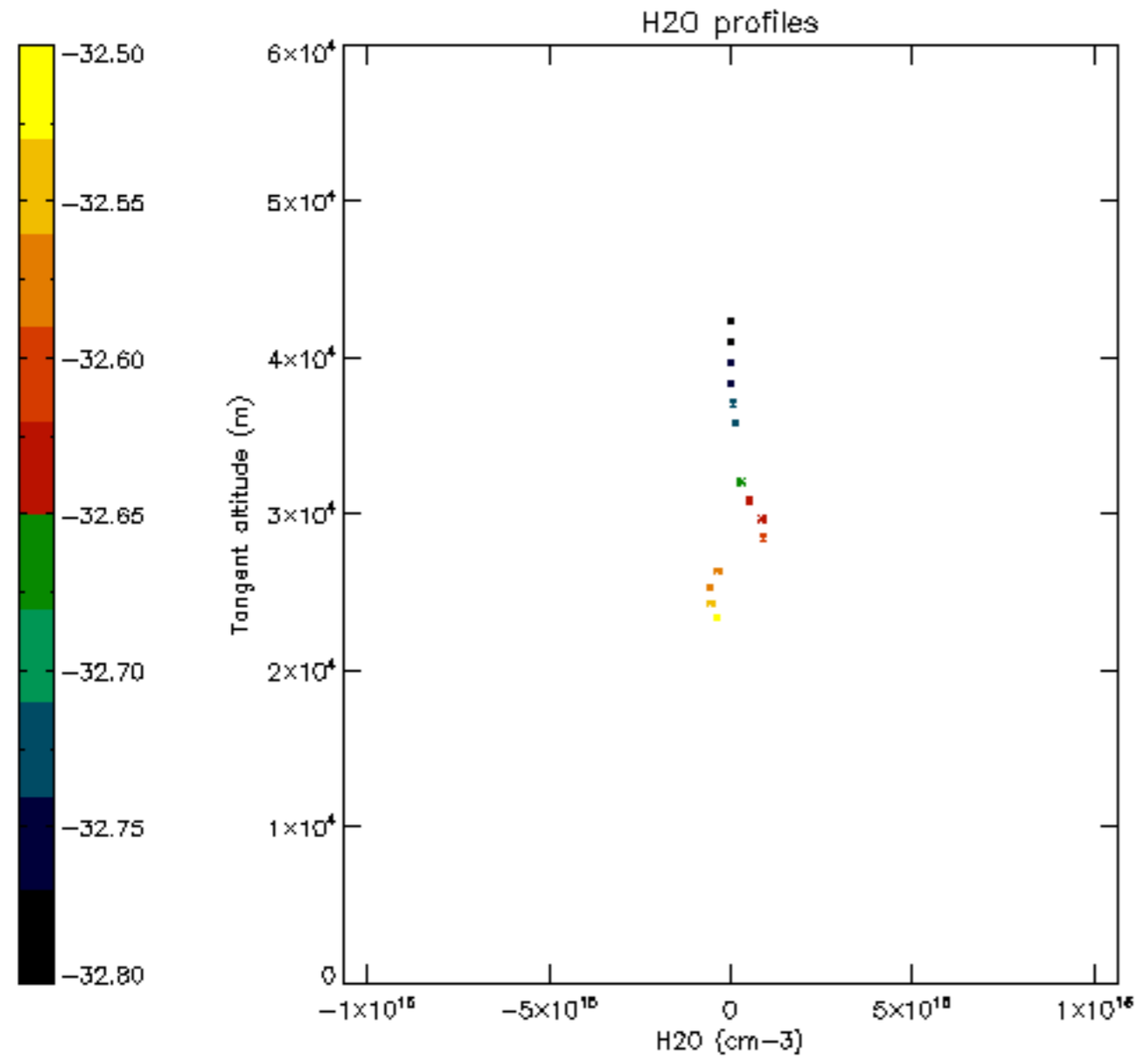


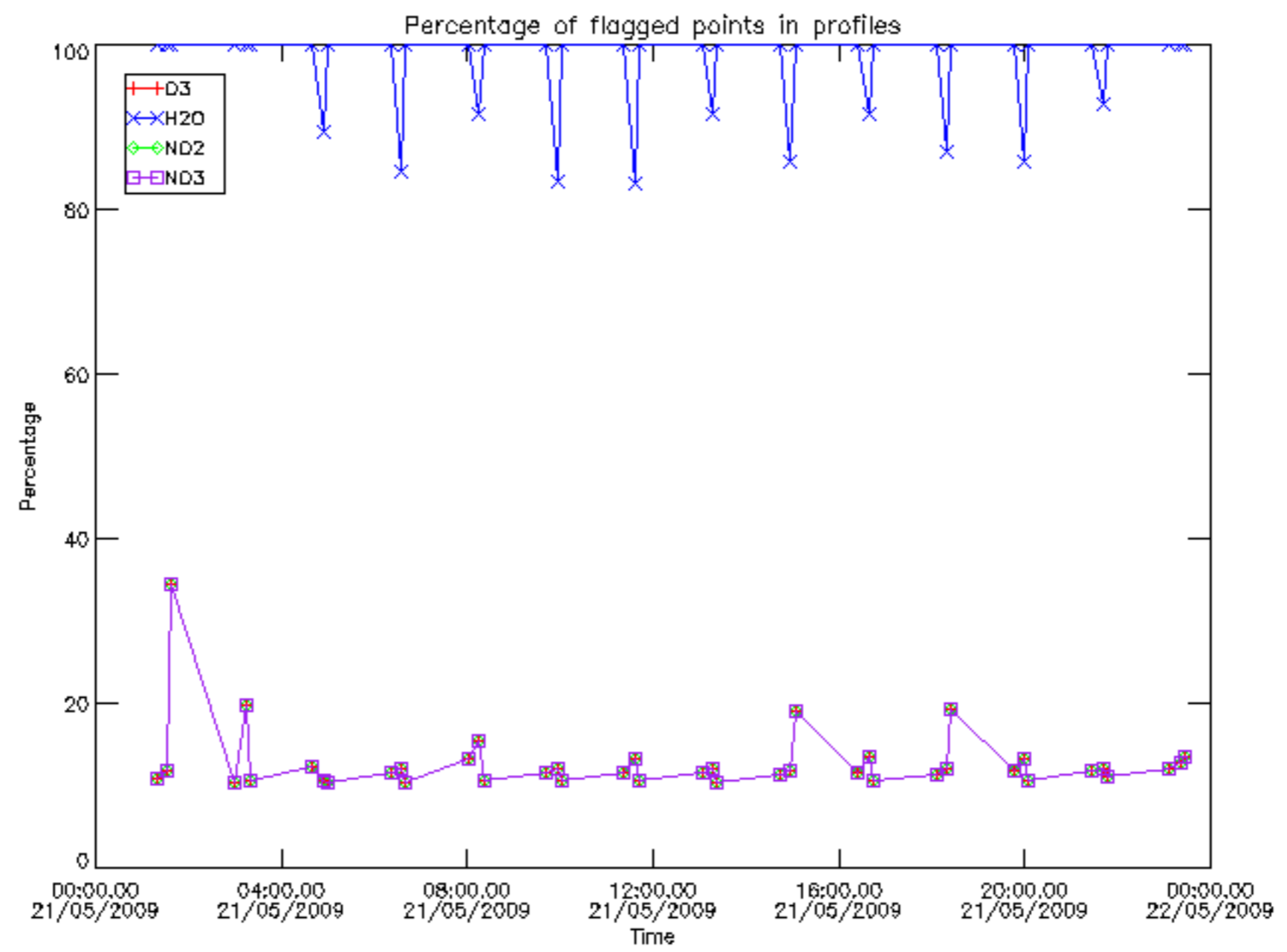




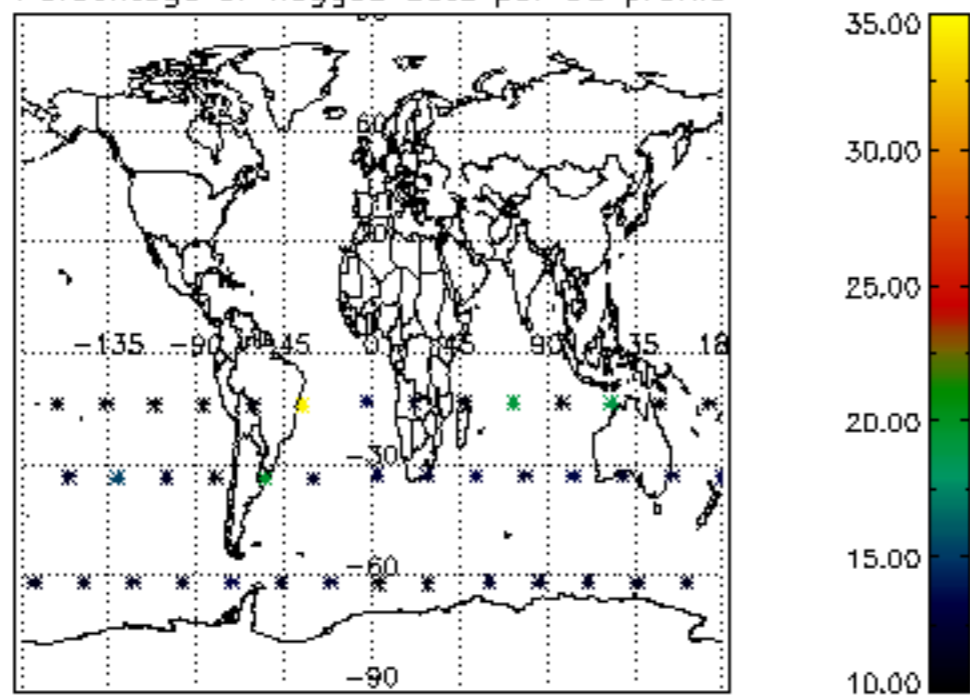




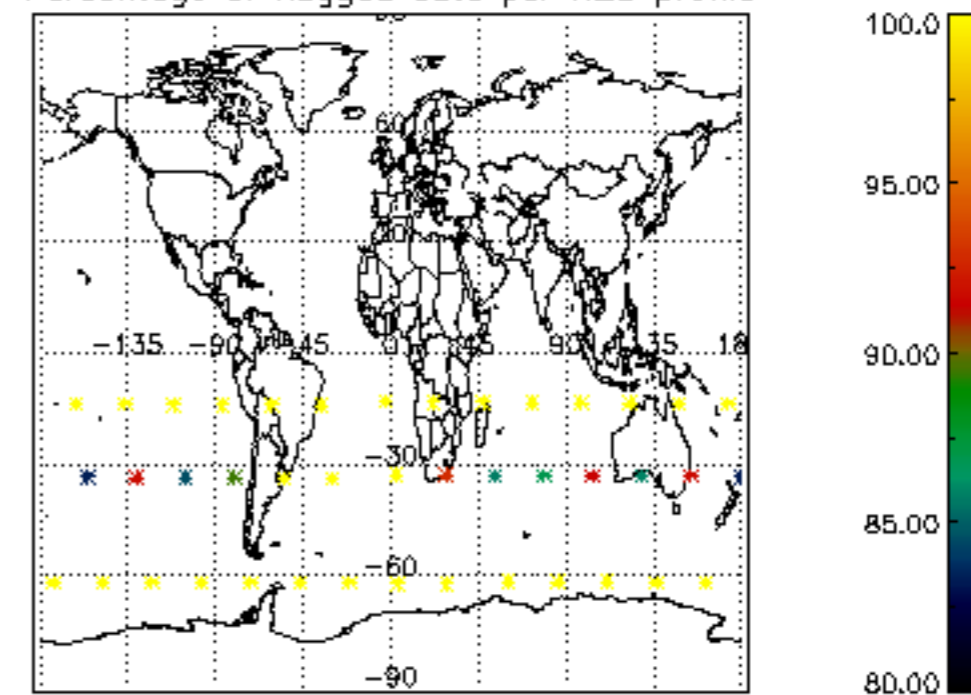




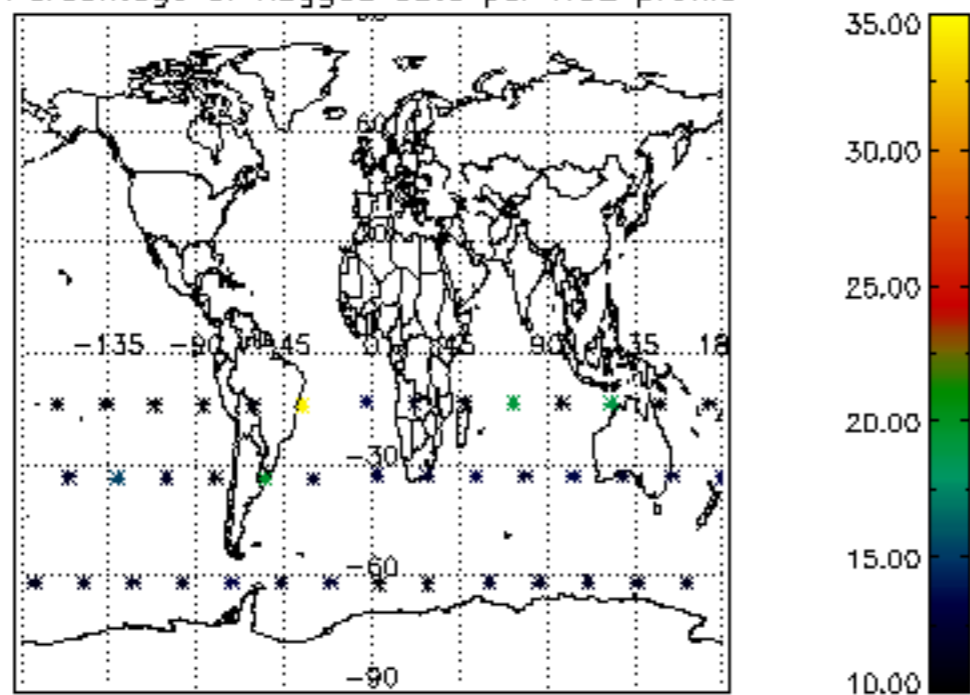
Percentage of flagged data per D3 profile



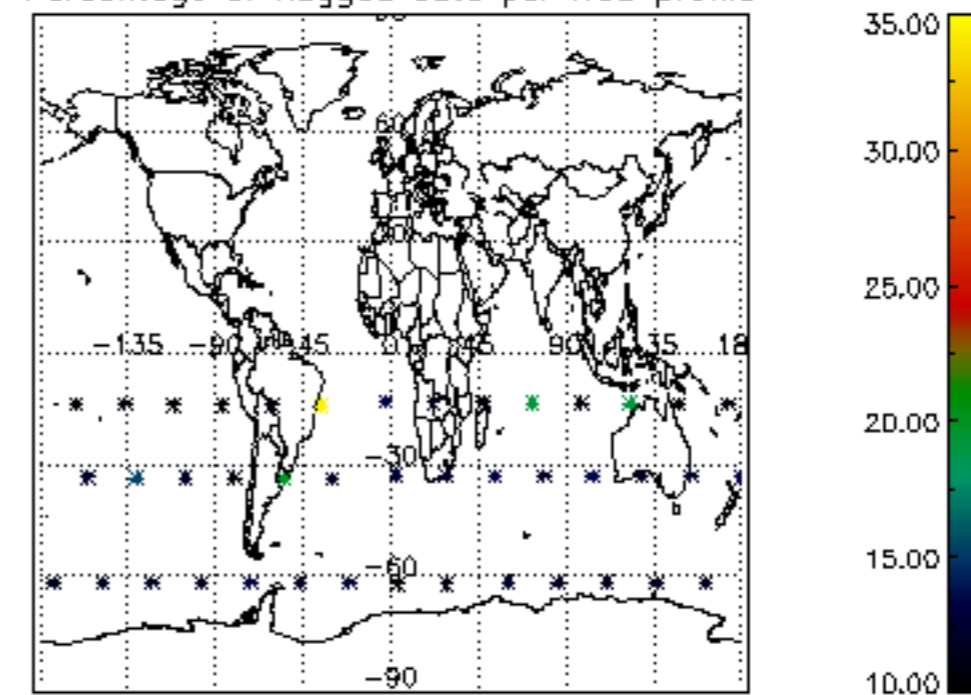
Percentage of flagged data per H2O profile

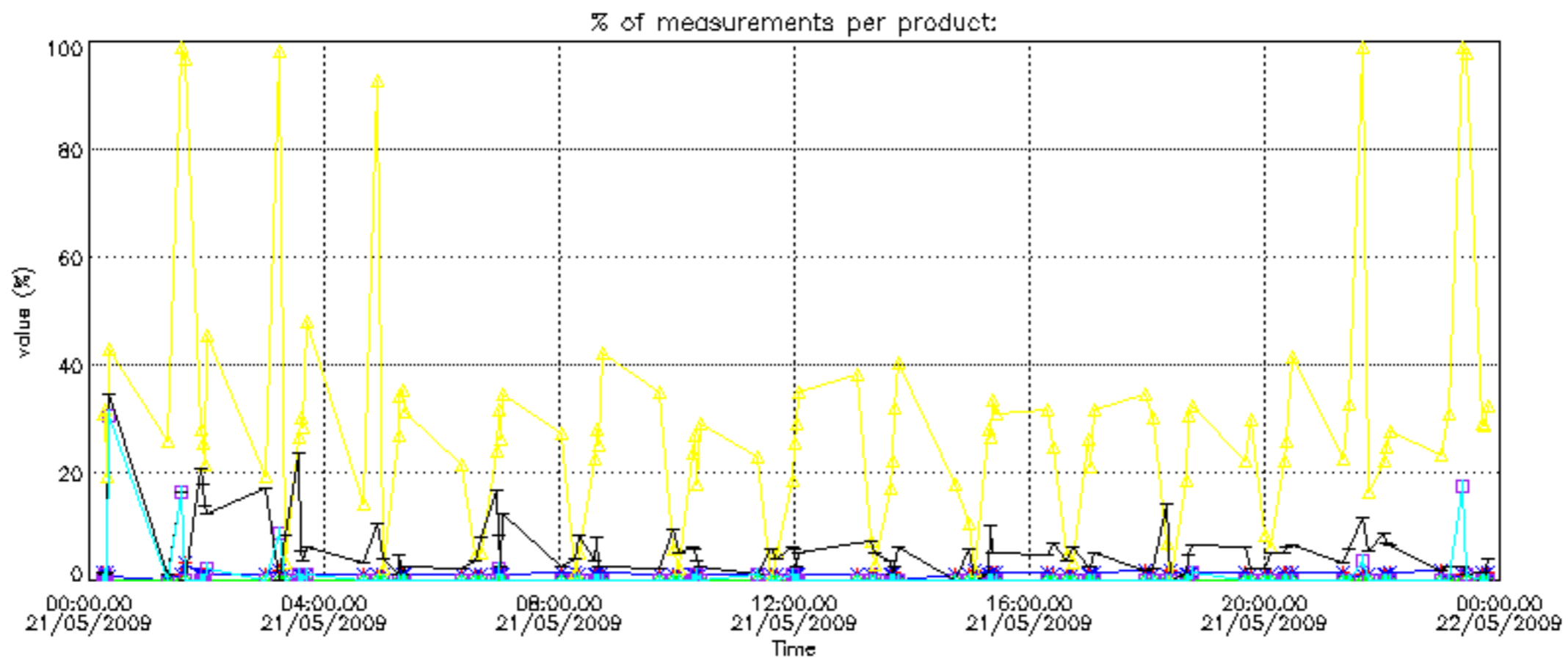


Percentage of flagged data per NO2 profile

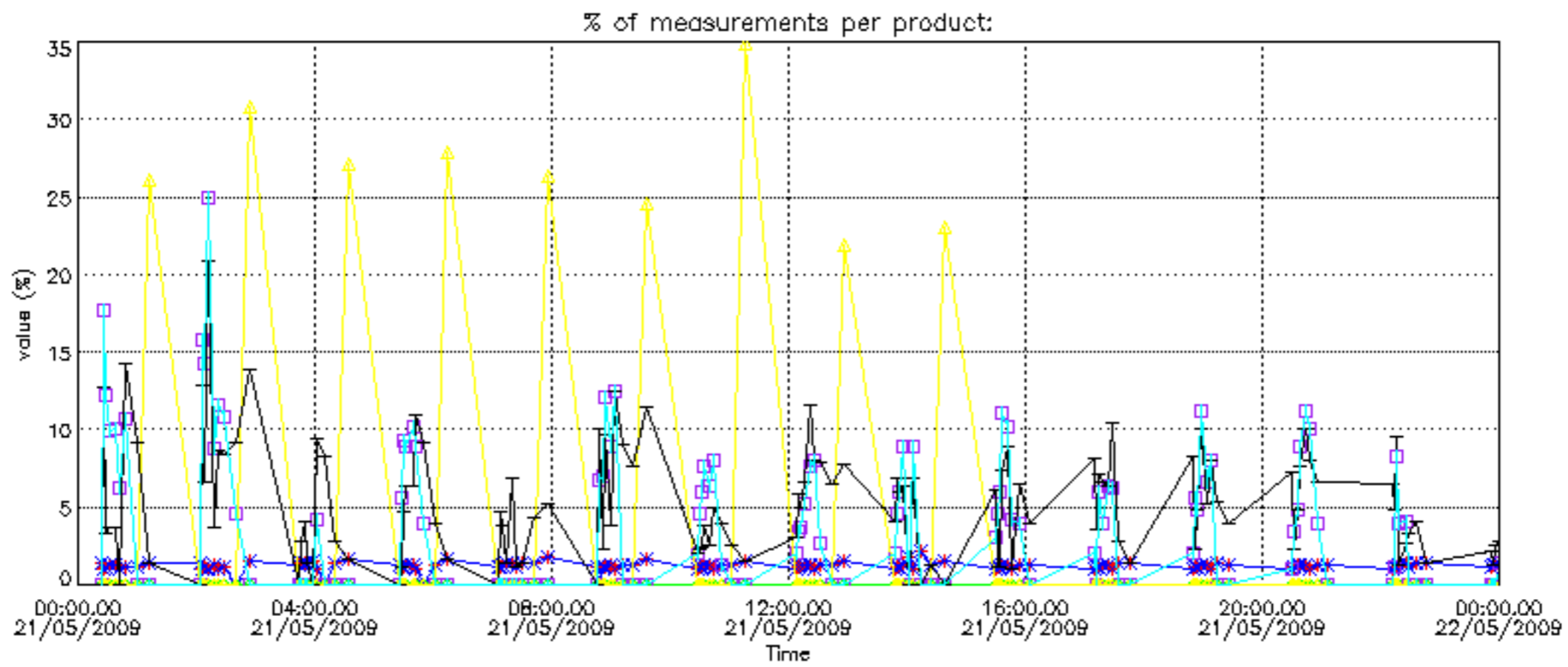


Percentage of flagged data per NO3 profile

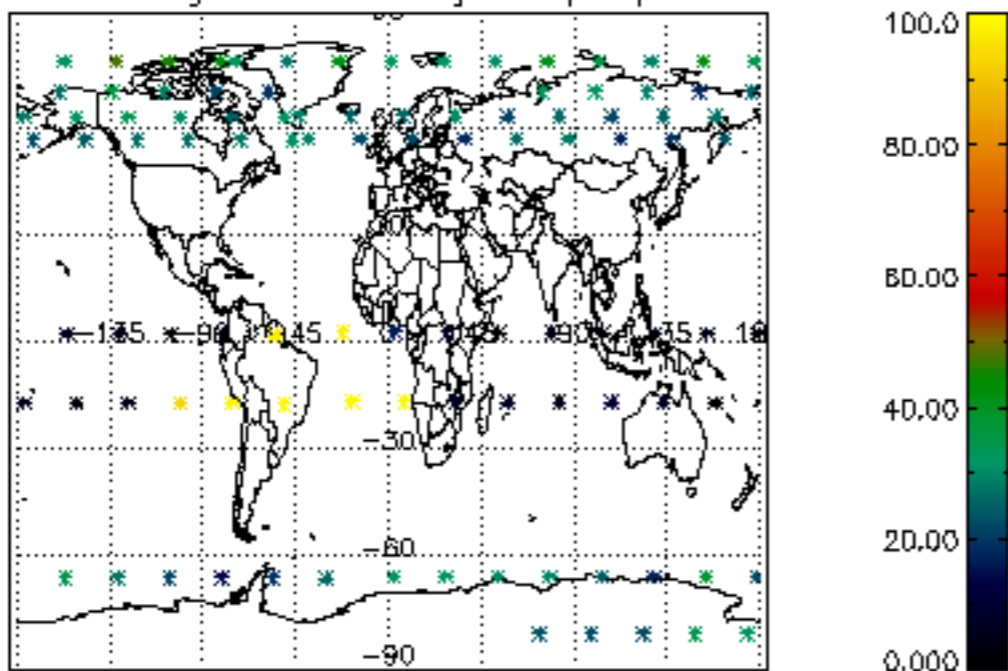




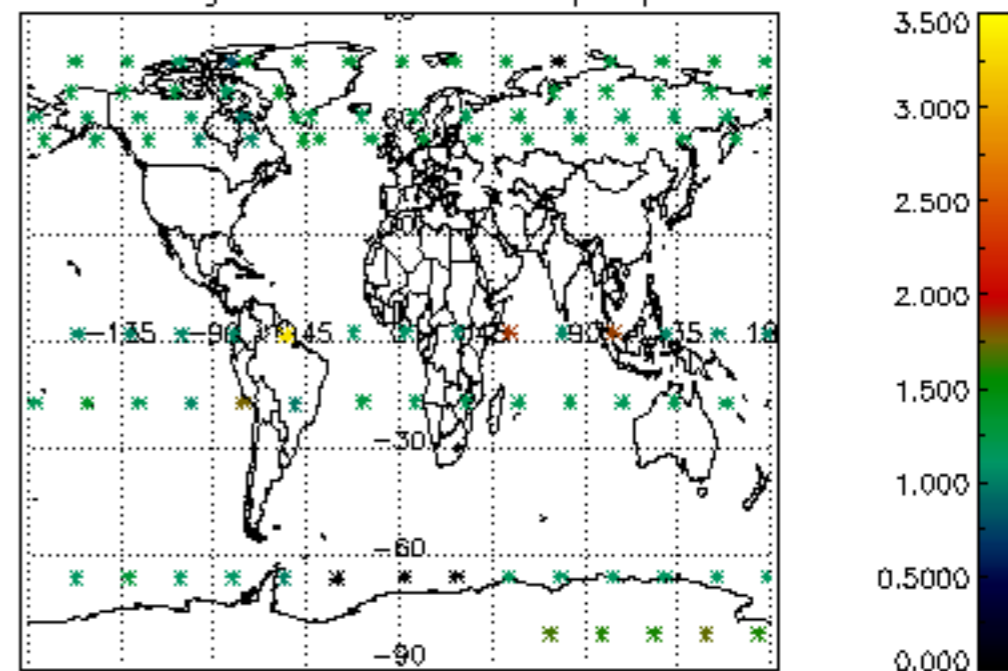




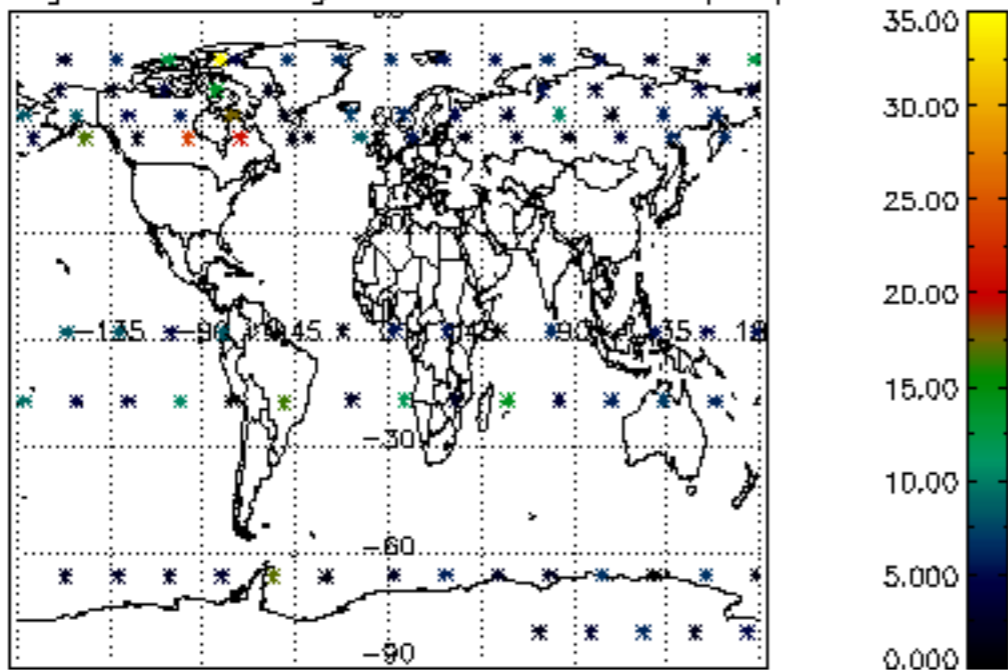
Percentage of cosmic ray hits per profile



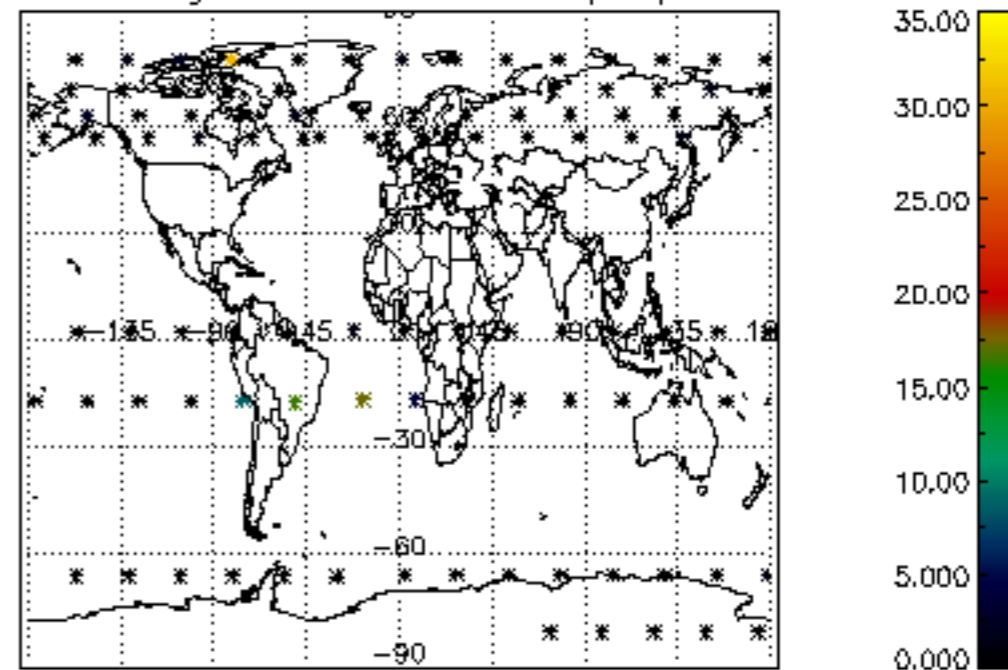
Percentage of datation errors per profile



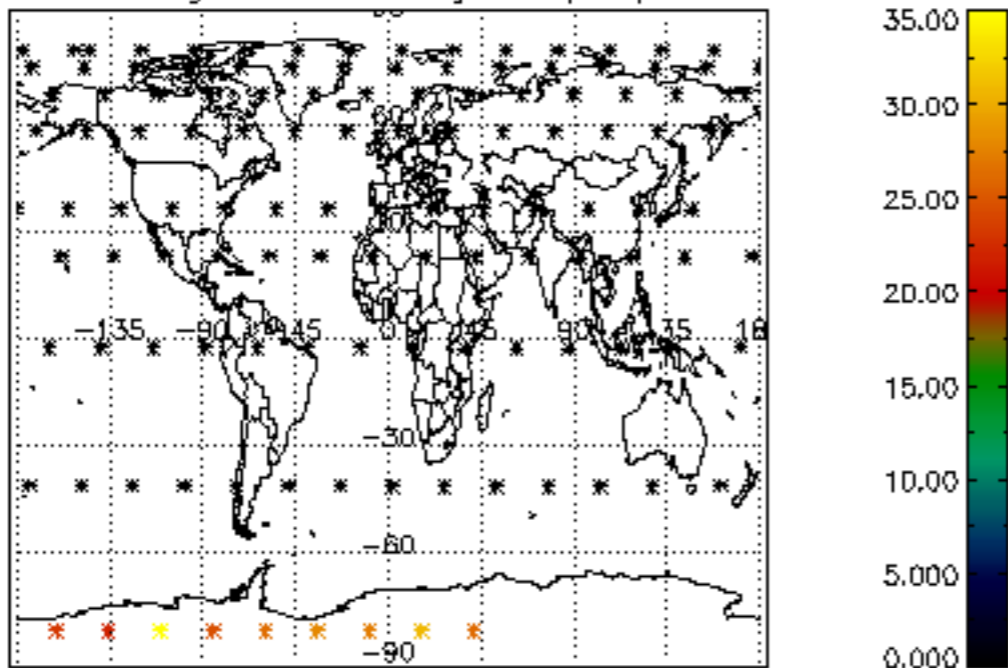
Percentage of star falling outside central band per profile



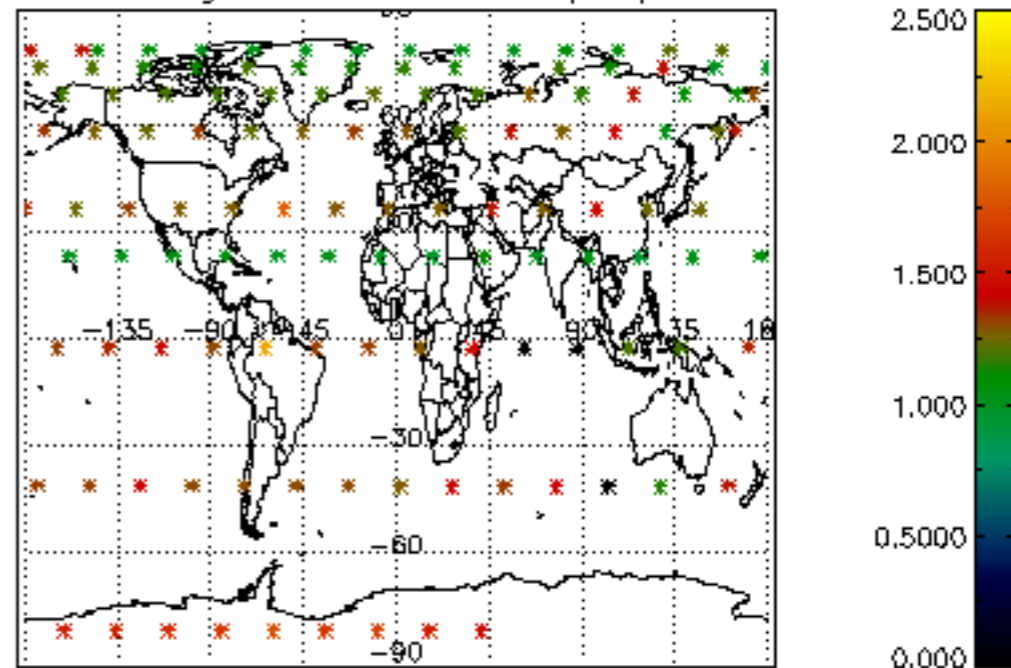
Percentage of saturation errors per profile



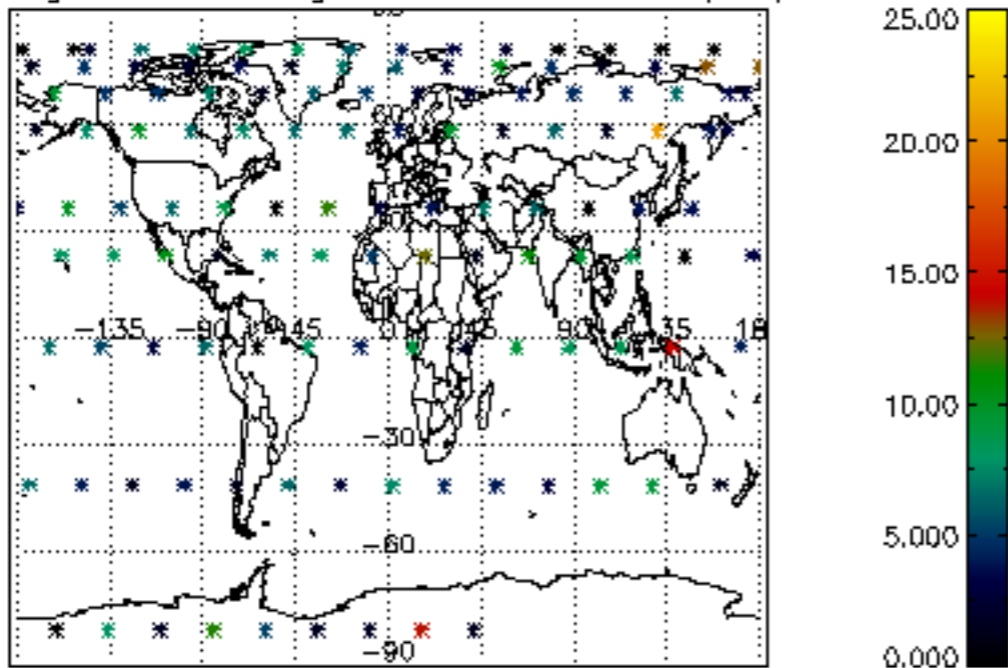
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

