

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	26APR2013 10:03:27
Data source version	GOMOS/6.01
Start time of products	09-06-2009 (09JUN2009 00:00:00)
Stop time of products	10-06-2009 (10JUN2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	159
Nb of prods with errors	0

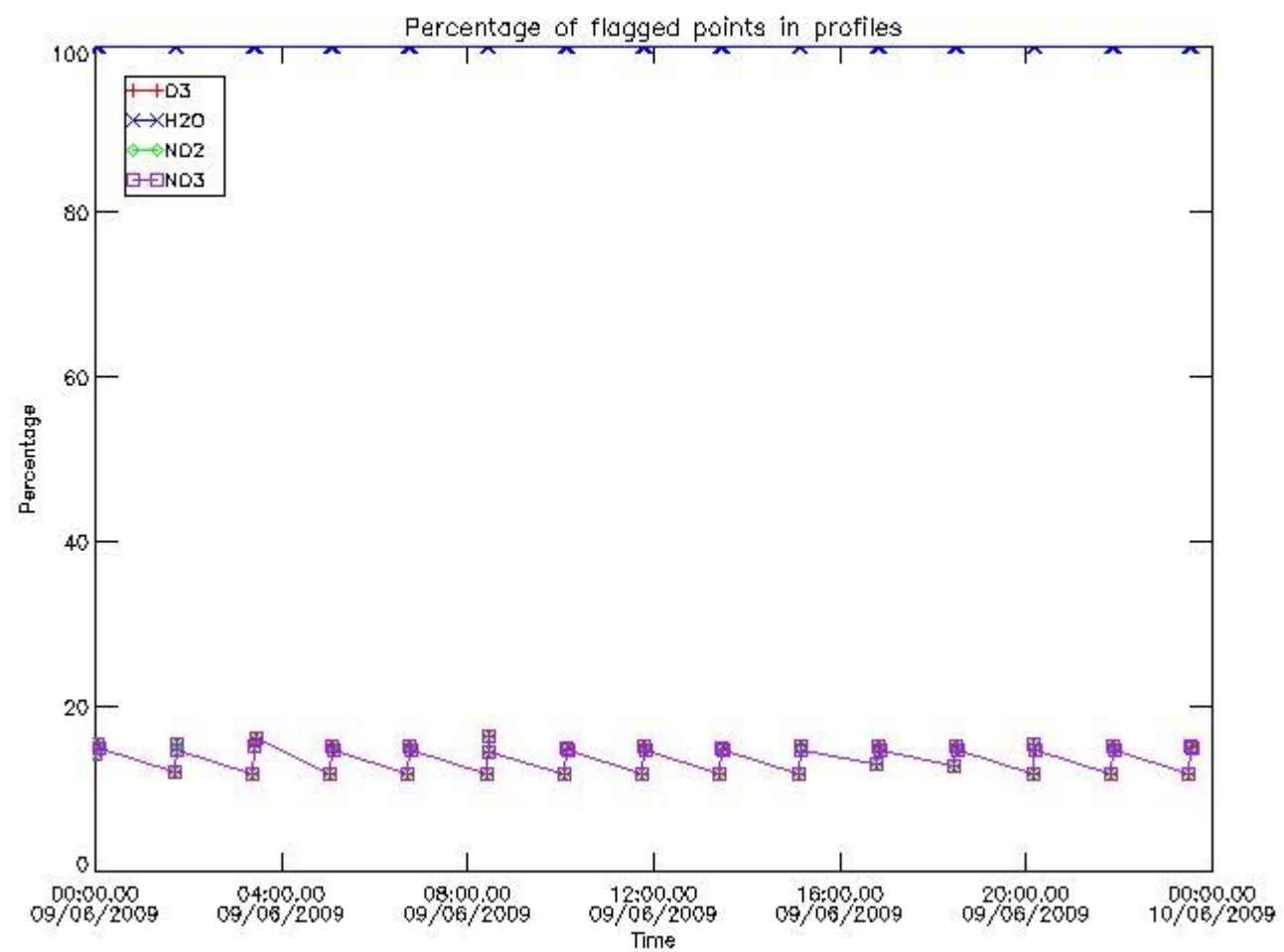
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20090609_000049_000000432079_00403_38032_1740.N1	09-JUN-2009 00:00:49	Dark	43.000	18	24Alp PsA	1.1660	9700.0	86	38032	No
2	GOM_NL__2PRFIN20090609_000313_000000332079_00403_38032_1741.N1	09-JUN-2009 00:03:13	Dark	33.000	63	Bet Gru	2.1500	2800.0	66	38032	No
3	GOM_NL__2PRFIN20090609_000513_000000342079_00403_38032_1742.N1	09-JUN-2009 00:05:13	Dark	34.000	31	Alp Gru	1.7340	15200.	68	38032	No
4	GOM_NL__2PRFIN20090609_001938_000000312079_00403_38032_1743.N1	09-JUN-2009 00:19:38	Twilight	31.000	38	20Eps Sgr	1.8360	11000.	62	38032	No
5	GOM_NL__2PRFIN20090609_002137_000000382079_00403_38032_1744.N1	09-JUN-2009 00:21:37	Twilight	37.500	57	34Sig Sgr	2.0660	26000.	75	38032	No
6	GOM_NL__2PRFIN20090609_003410_000000362079_00403_38032_1745.N1	09-JUN-2009 00:34:10	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	38032	No
7	GOM_NL__2PRFIN20090609_003650_000000352079_00403_38032_1746.N1	09-JUN-2009 00:36:50	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	38032	No
8	GOM_NL__2PRFIN20090609_004844_000000312079_00403_38032_1747.N1	09-JUN-2009 00:48:44	Bright	30.500	130	23Bet Dra	2.7990	5800.0	61	38032	No
9	GOM_NL__2PRFIN20090609_005930_000000312079_00403_38032_1748.N1	09-JUN-2009 00:59:30	Twilight	31.000	89	5Alp Cep	2.4510	8000.0	62	38032	No
10	GOM_NL__2PRFIN20090609_010520_000000252079_00403_38032_1749.N1	09-JUN-2009 01:05:20	Twilight	25.000	74	11Bet Cas	2.2680	6600.0	50	38032	No
11	GOM_NL__2PRFIN20090609_011337_000000232079_00403_38032_1750.N1	09-JUN-2009 01:13:37	Twilight	23.000	53	43Bet And	2.0480	3300.0	46	38032	No
12	GOM_NL__2PRFIN20090609_014126_000000432079_00404_38033_1756.N1	09-JUN-2009 01:41:26	Dark	42.500	18	24Alp PsA	1.1660	9700.0	85	38033	No
13	GOM_NL__2PRFIN20090609_014350_000000332079_00404_38033_1757.N1	09-JUN-2009 01:43:50	Dark	33.000	63	Bet Gru	2.1500	2800.0	66	38033	No
14	GOM_NL__2PRFIN20090609_014549_000000352079_00404_38033_1758.N1	09-JUN-2009 01:45:49	Dark	34.500	31	Alp Gru	1.7340	15200.	69	38033	No
15	GOM_NL__2PRFIN20090609_020014_000000322079_00404_38033_1759.N1	09-JUN-2009 02:00:14	Twilight	31.500	38	20Eps Sgr	1.8360	11000.	63	38033	No
16	GOM_NL__2PRFIN20090609_020213_000000382079_00404_38033_1760.N1	09-JUN-2009 02:02:13	Twilight	37.500	57	34Sig Sgr	2.0660	26000.	75	38033	No
17	GOM_NL__2PRFIN20090609_021446_000000362079_00404_38033_1761.N1	09-JUN-2009 02:14:46	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	38033	No
18	GOM_NL__2PRFIN20090609_021725_000000352079_00404_38033_1762.N1	09-JUN-2009 02:17:25	Bright	35.000	59	55Alp Oph	2.0800	8900.0	70	38033	No
19	GOM_NL__2PRFIN20090609_022919_000000312079_00404_38033_1763.N1	09-JUN-2009 02:29:19	Bright	30.500	130	23Bet Dra	2.7990	5800.0	61	38033	No
20	GOM_NL__2PRFIN20090609_024005_000000312079_00404_38033_1764.N1	09-JUN-2009 02:40:05	Twilight	31.000	89	5Alp Cep	2.4510	8000.0	62	38033	No
21	GOM_NL__2PRFIN20090609_024556_000000262079_00404_38033_1765.N1	09-JUN-2009 02:45:56	Twilight	25.500	74	11Bet Cas	2.2680	6600.0	51	38033	No
22	GOM_NL__2PRFIN20090609_025413_000000242079_00404_38033_1766.N1	09-JUN-2009 02:54:13	Twilight	24.000	53	43Bet And	2.0480	3300.0	48	38033	No
23	GOM_NL__2PRFIN20090609_032204_000000432079_00405_38034_1770.N1	09-JUN-2009 03:22:04	Dark	43.000	18	24Alp PsA	1.1660	9700.0	86	38034	No
24	GOM_NL__2PRFIN20090609_032426_000000342079_00405_38034_1771.N1	09-JUN-2009 03:24:26	Dark	33.500	63	Bet Gru	2.1500	2800.0	67	38034	No
25	GOM_NL__2PRFIN20090609_032627_000000352079_00405_38034_1772.N1	09-JUN-2009 03:26:27	Dark	34.500	31	Alp Gru	1.7340	15200.	69	38034	No
26	GOM_NL__2PRFIN20090609_034050_000000322079_00405_38034_1773.N1	09-JUN-2009 03:40:50	Twilight	31.500	38	20Eps Sgr	1.8360	11000.	63	38034	No
27	GOM_NL__2PRFIN20090609_034250_000000382079_00405_38034_1774.N1	09-JUN-2009 03:42:50	Twilight	37.500	57	34Sig Sgr	2.0660	26000.	75	38034	No
28	GOM_NL__2PRFIN20090609_035522_000000362079_00405_38034_1775.N1	09-JUN-2009 03:55:22	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	38034	No
29	GOM_NL__2PRFIN20090609_035801_000000352079_00405_38034_1776.N1	09-JUN-2009 03:58:01	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	38034	No
30	GOM_NL__2PRFIN20090609_040955_000000312079_00405_38034_1777.N1	09-JUN-2009 04:09:55	Bright	30.500	130	23Bet Dra	2.7990	5800.0	61	38034	No
31	GOM_NL__2PRFIN20090609_042041_000000312079_00405_38034_1778.N1	09-JUN-2009 04:20:41	Twilight	30.500	89	5Alp Cep	2.4510	8000.0	61	38034	No
32	GOM_NL__2PRFIN20090609_042631_000000262079_00405_38034_1779.N1	09-JUN-2009 04:26:31	Twilight	25.500	74	11Bet Cas	2.2680	6600.0	51	38034	No
33	GOM_NL__2PRFIN20090609_043449_000000242079_00405_38034_1780.N1	09-JUN-2009 04:34:49	Twilight	24.000	53	43Bet And	2.0480	3300.0	48	38034	No
34	GOM_NL__2PRFIN20090609_050241_000000442079_00406_38035_1784.N1	09-JUN-2009 05:02:41	Dark	43.500	18	24Alp PsA	1.1660	9700.0	87	38035	No
35	GOM_NL__2PRFIN20090609_050503_000000342079_00406_38035_1785.N1	09-JUN-2009 05:05:03	Dark	33.500	63	Bet Gru	2.1500	2800.0	67	38035	No
36	GOM_NL__2PRFIN20090609_050703_000000352079_00406_38035_1786.N1	09-JUN-2009 05:07:03	Dark	34.500	31	Alp Gru	1.7340	15200.	69	38035	No
37	GOM_NL__2PRFIN20090609_052127_000000312079_00406_38035_1787.N1	09-JUN-2009 05:21:27	Twilight	30.500	38	20Eps Sgr	1.8360	11000.	61	38035	No
38	GOM_NL__2PRFIN20090609_052326_000000382079_00406_38035_1788.N1	09-JUN-2009 05:23:26	Twilight	37.500	57	34Sig Sgr	2.0660	26000.	75	38035	No
39	GOM_NL__2PRFIN20090609_053557_000000352079_00406_38035_1789.N1	09-JUN-2009 05:35:57	Bright	35.000	126	60Bet Oph	2.7700	4250.0	70	38035	No
40	GOM_NL__2PRFIN20090609_053836_000000352079_00406_38035_1790.N1	09-JUN-2009 05:38:36	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	38035	No
41	GOM_NL__2PRFIN20090609_055030_000000312079_00406_38035_1791.N1	09-JUN-2009 05:50:30	Bright	30.500	130	23Bet Dra	2.7990	5800.0	61	38035	No
42	GOM_NL__2PRFIN20090609_060116_000000302079_00406_38035_1792.N1	09-JUN-2009 06:01:16	Twilight	30.000	89	5Alp Cep	2.4510	8000.0	60	38035	No

3. Quality information per product

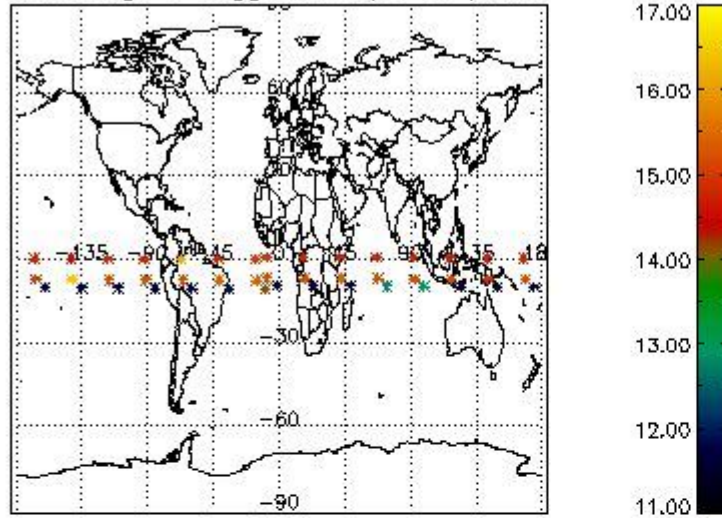
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

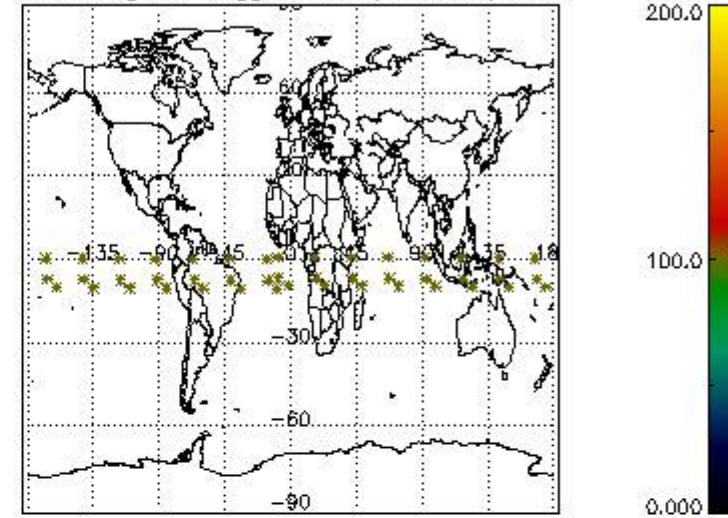


3.2 Plot quality information per product (world map)

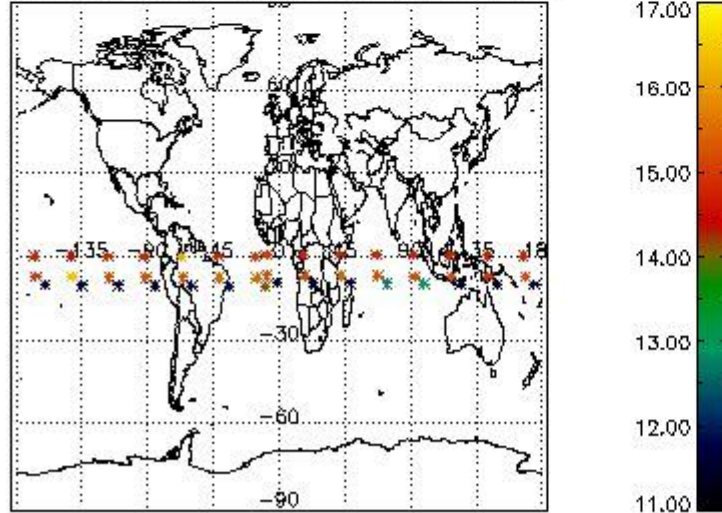
Percentage of flagged data per O3 profile



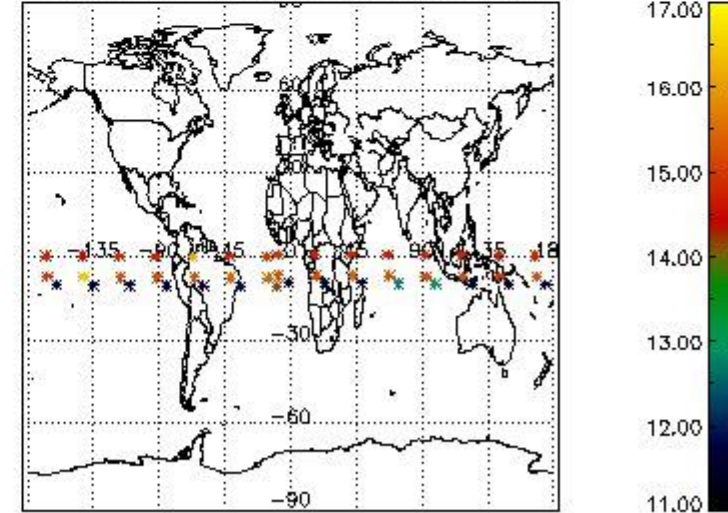
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

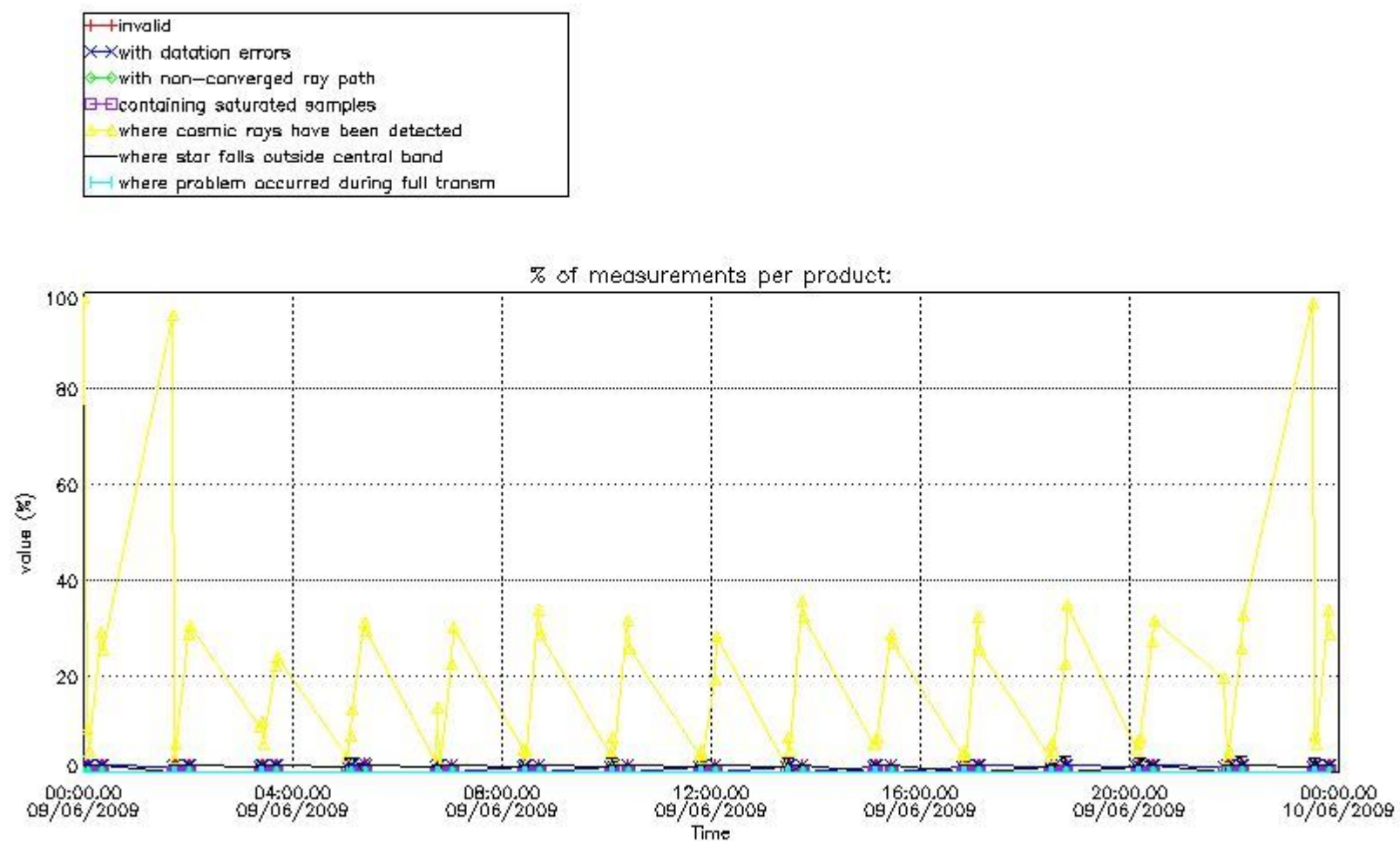


4. Level 1 quality information per product

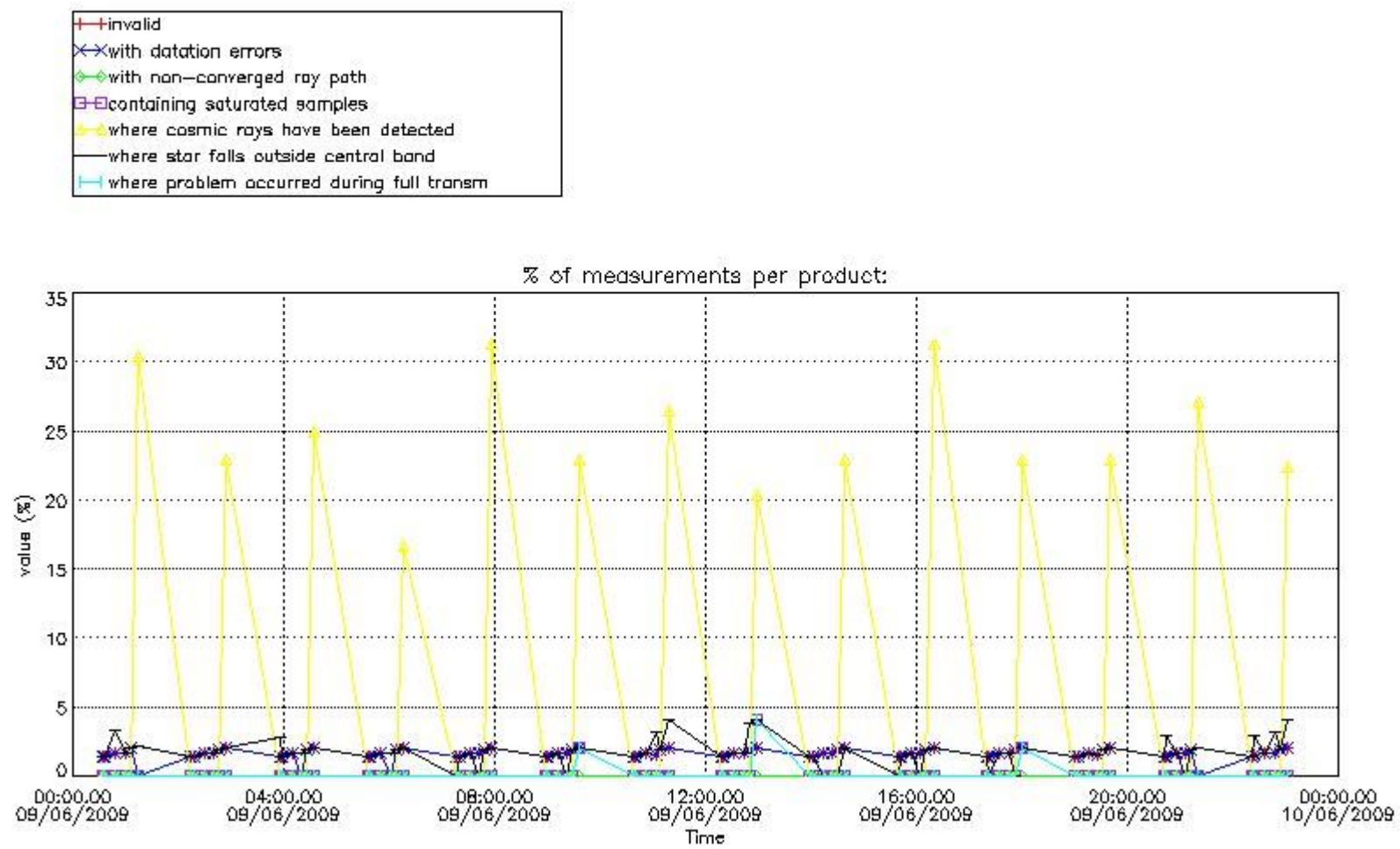
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



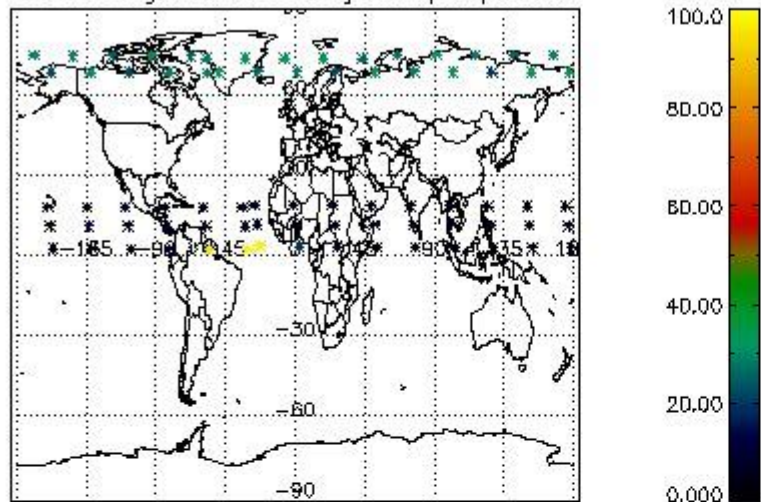
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



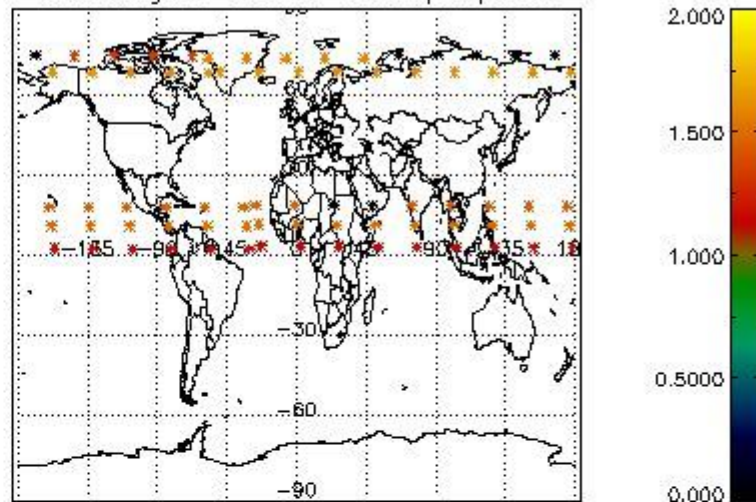
4.2 Plot quality information per product coming from level 1b processing (world map)

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

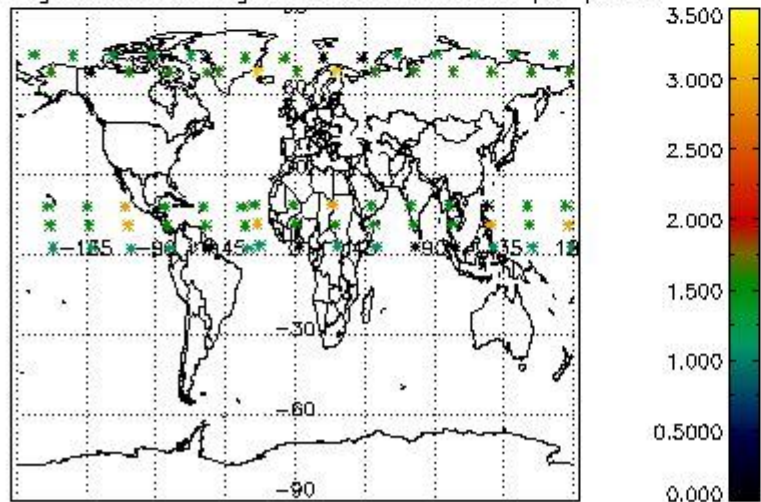
Percentage of cosmic ray hits per profile



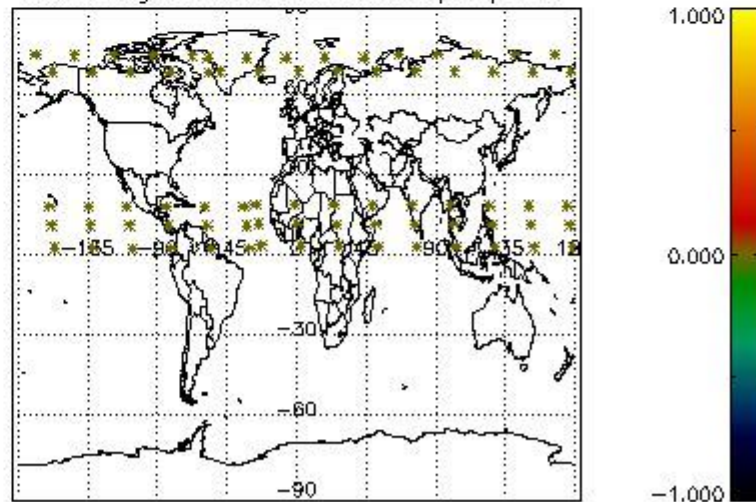
Percentage of datation errors per profile



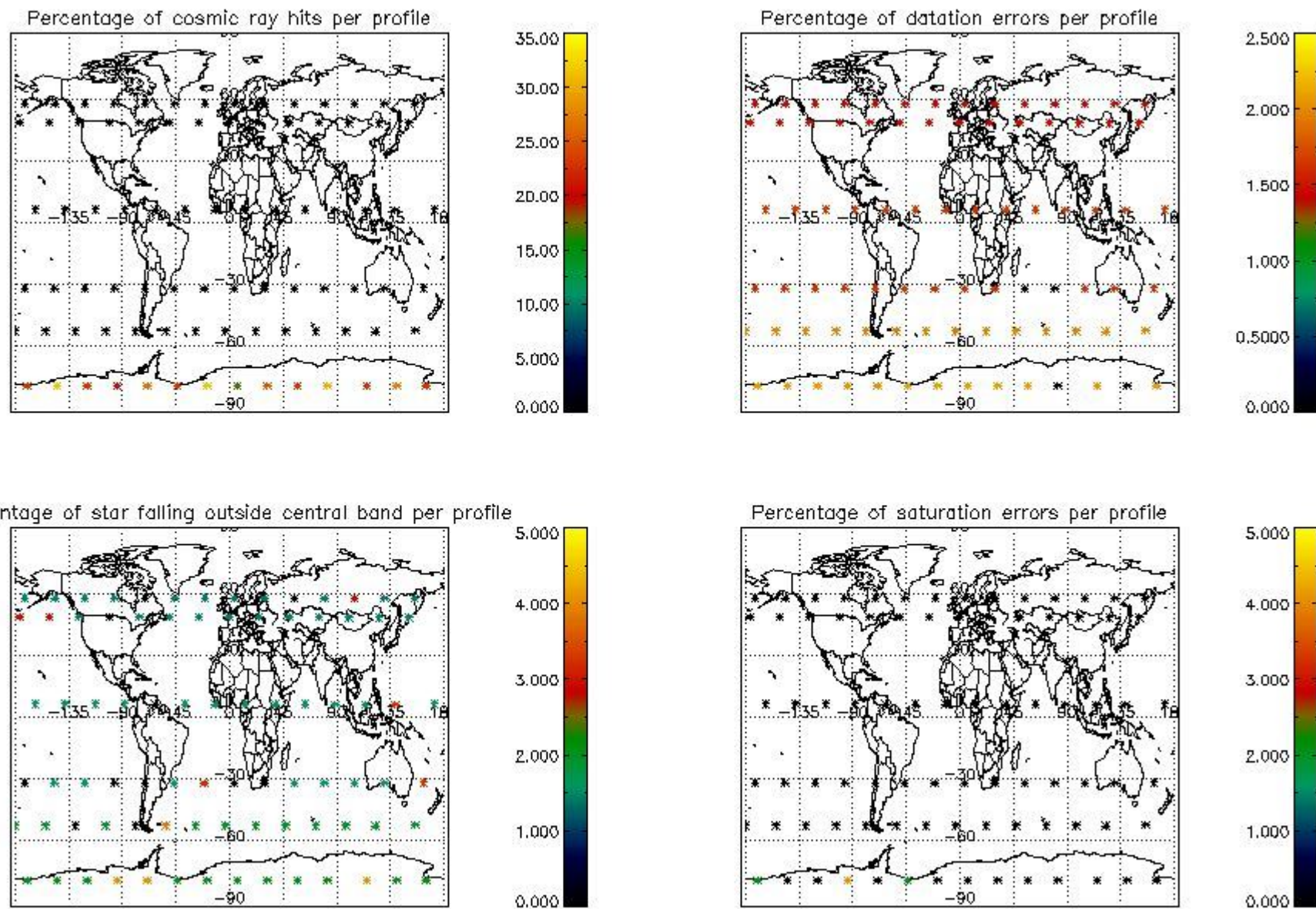
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



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

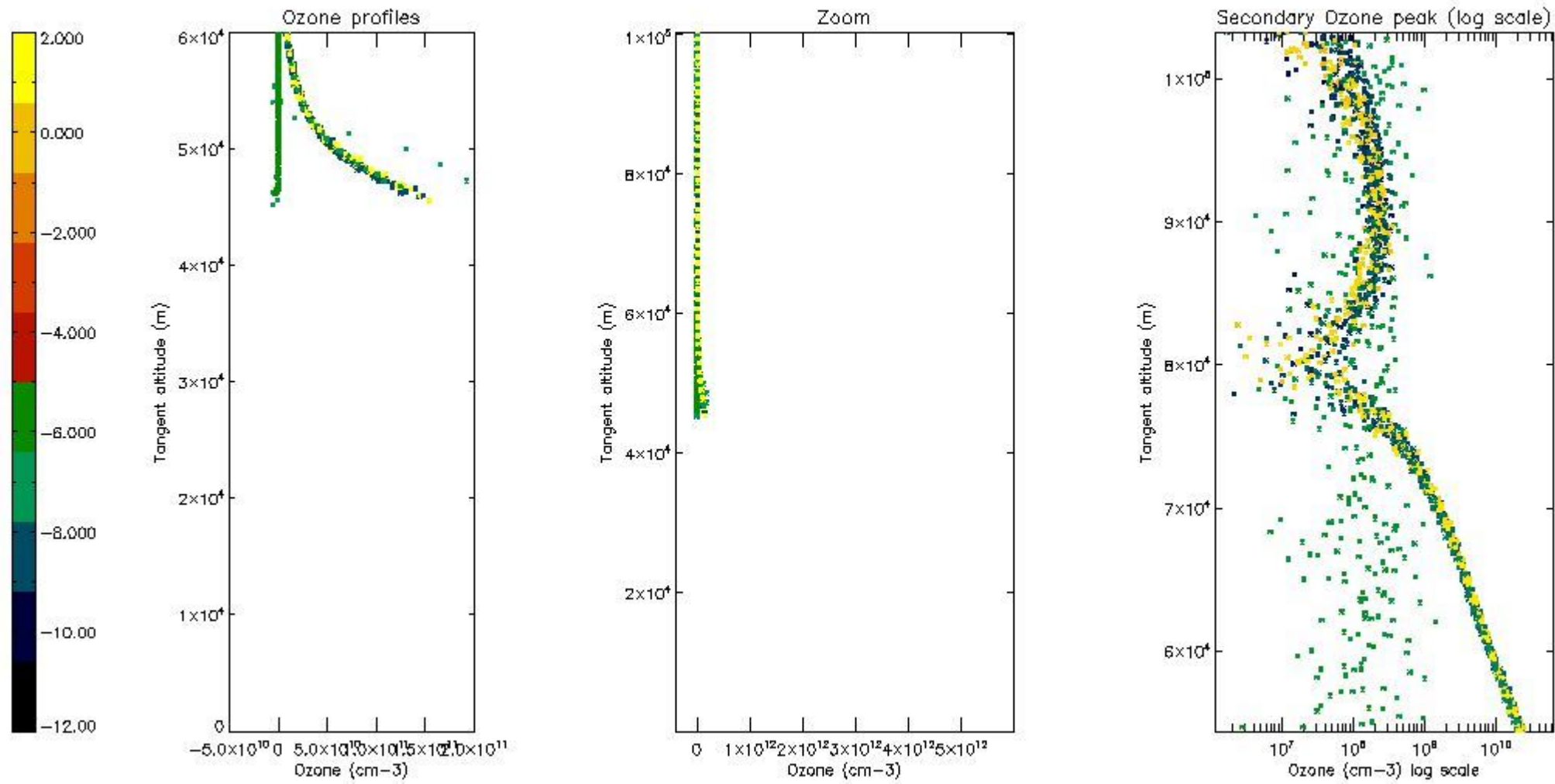
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	33
STD < 20	11

STD < 10	9
STD < 5	8

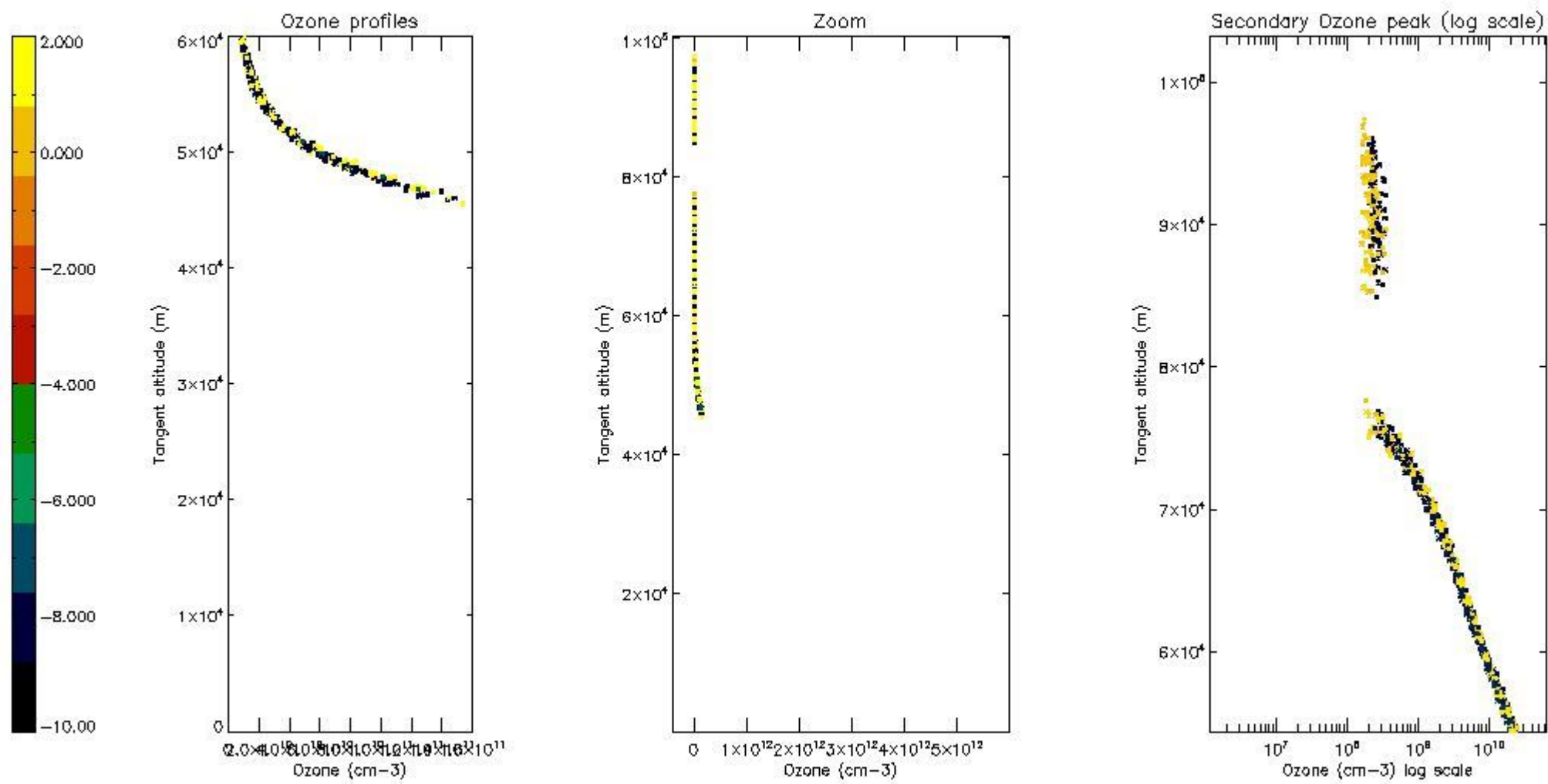
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



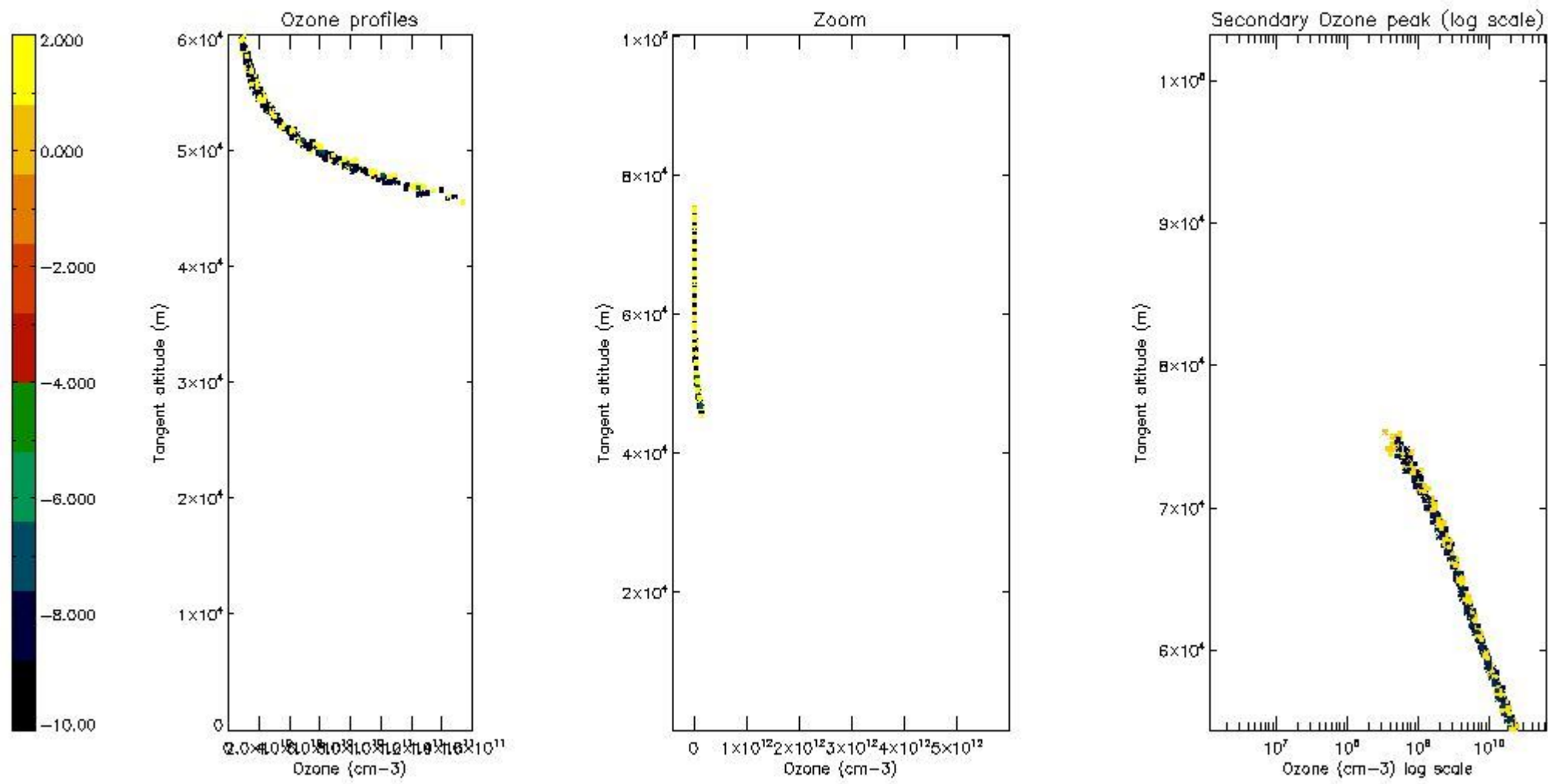
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



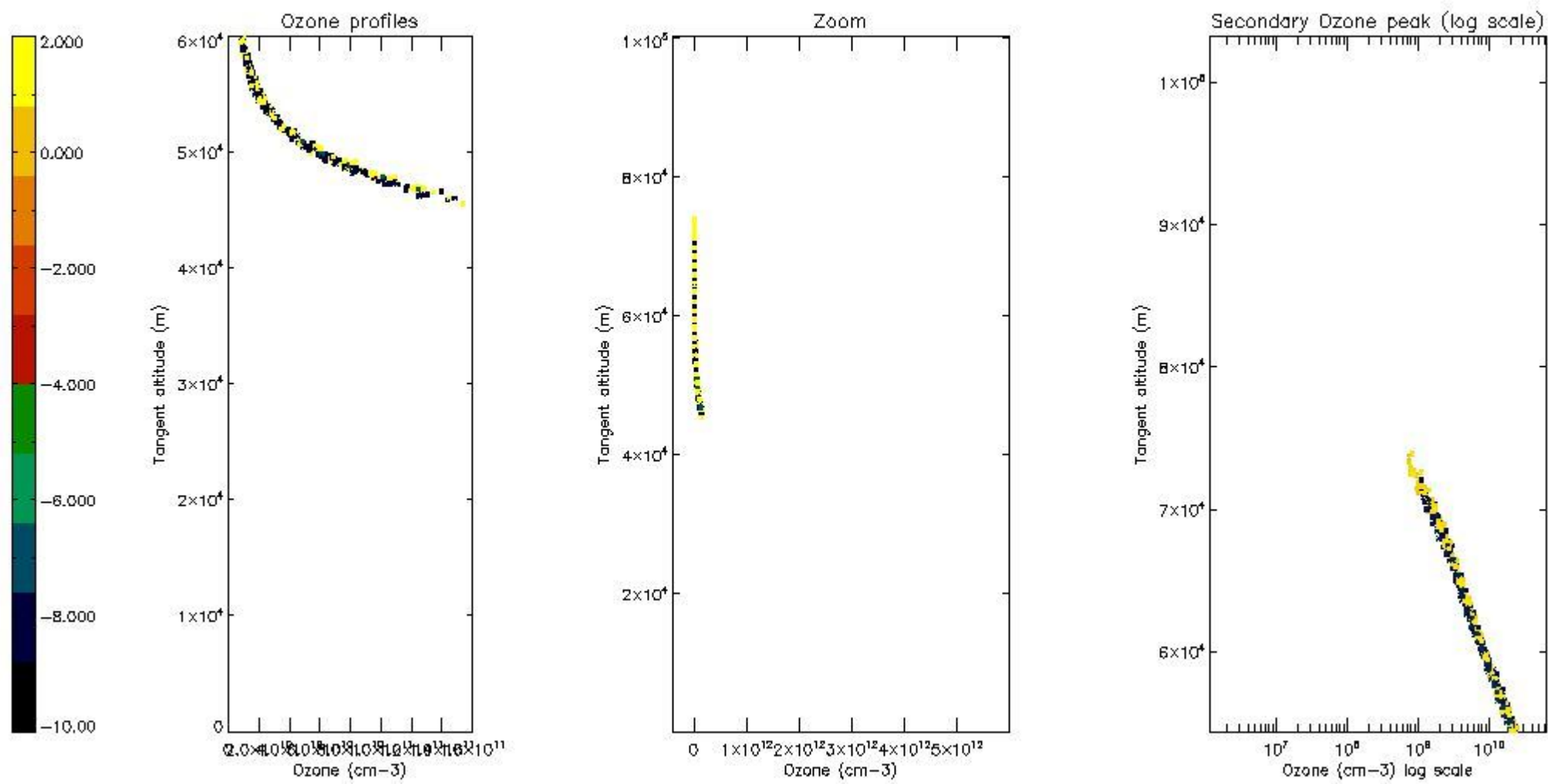
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



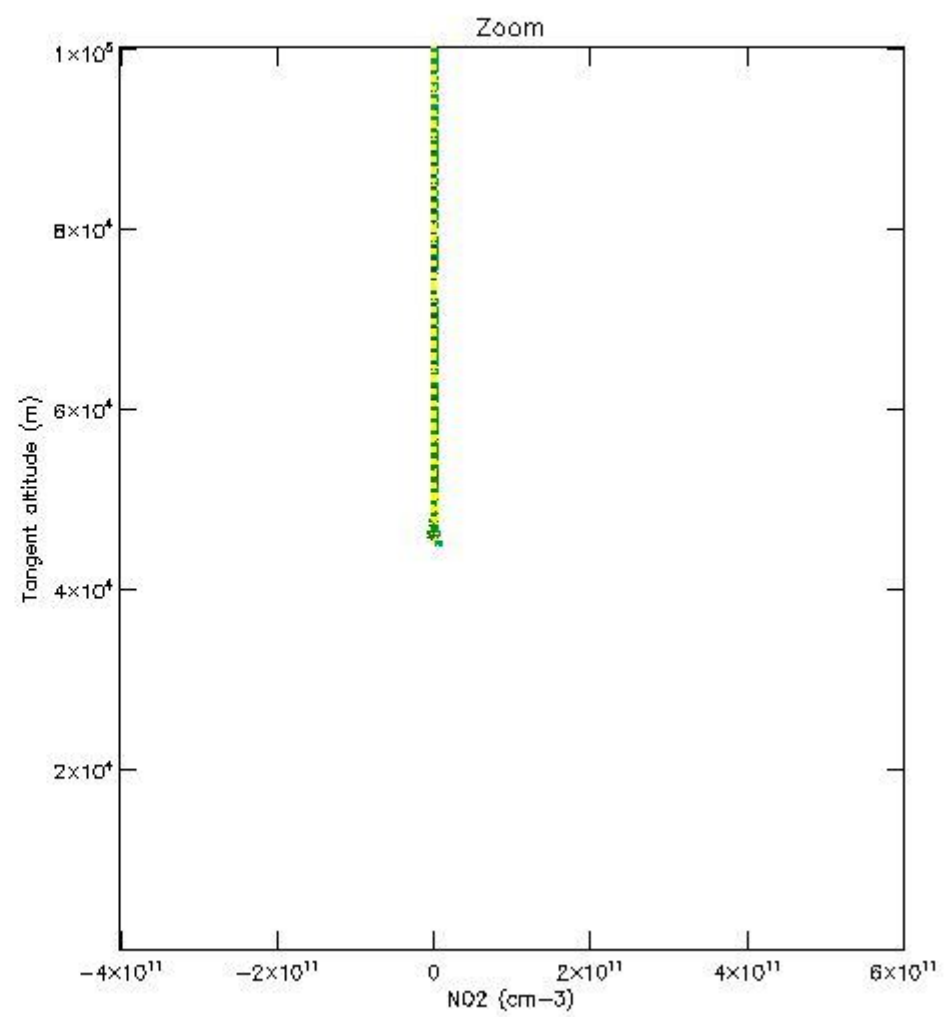
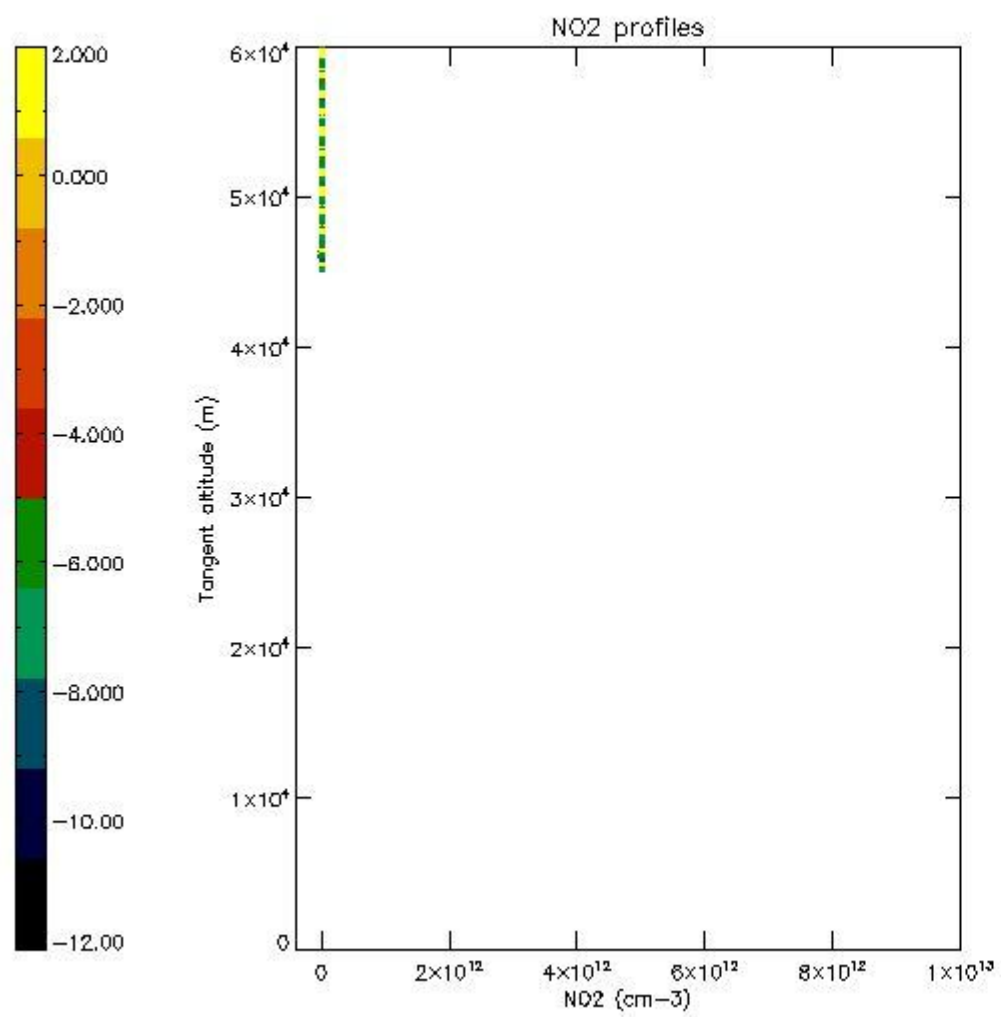
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



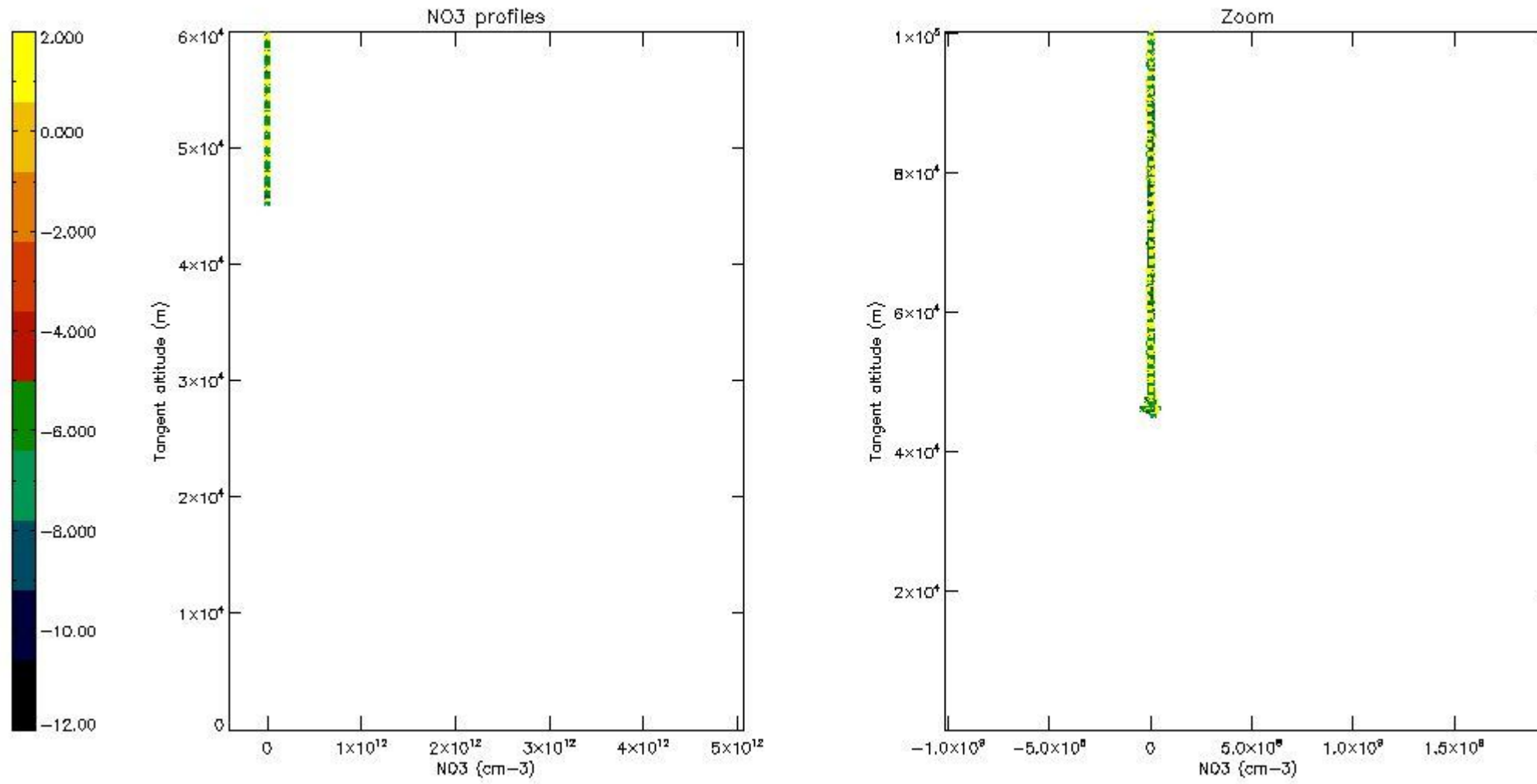
5.6 Plot NO₂ profiles for all STD (dark without errors)

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	09-JUN-2009 00:00:49
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	09-JUN-2009 00:00:49
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	09-JUN-2009 00:00:49

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[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](#)

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[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 10:03:27
Data source version	GOMOS/6.01
Start time of products	09-06-2009 (09JUN2009 00:00:00)
Stop time of products	10-06-2009 (10JUN2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	159
Nb of prods with errors	0

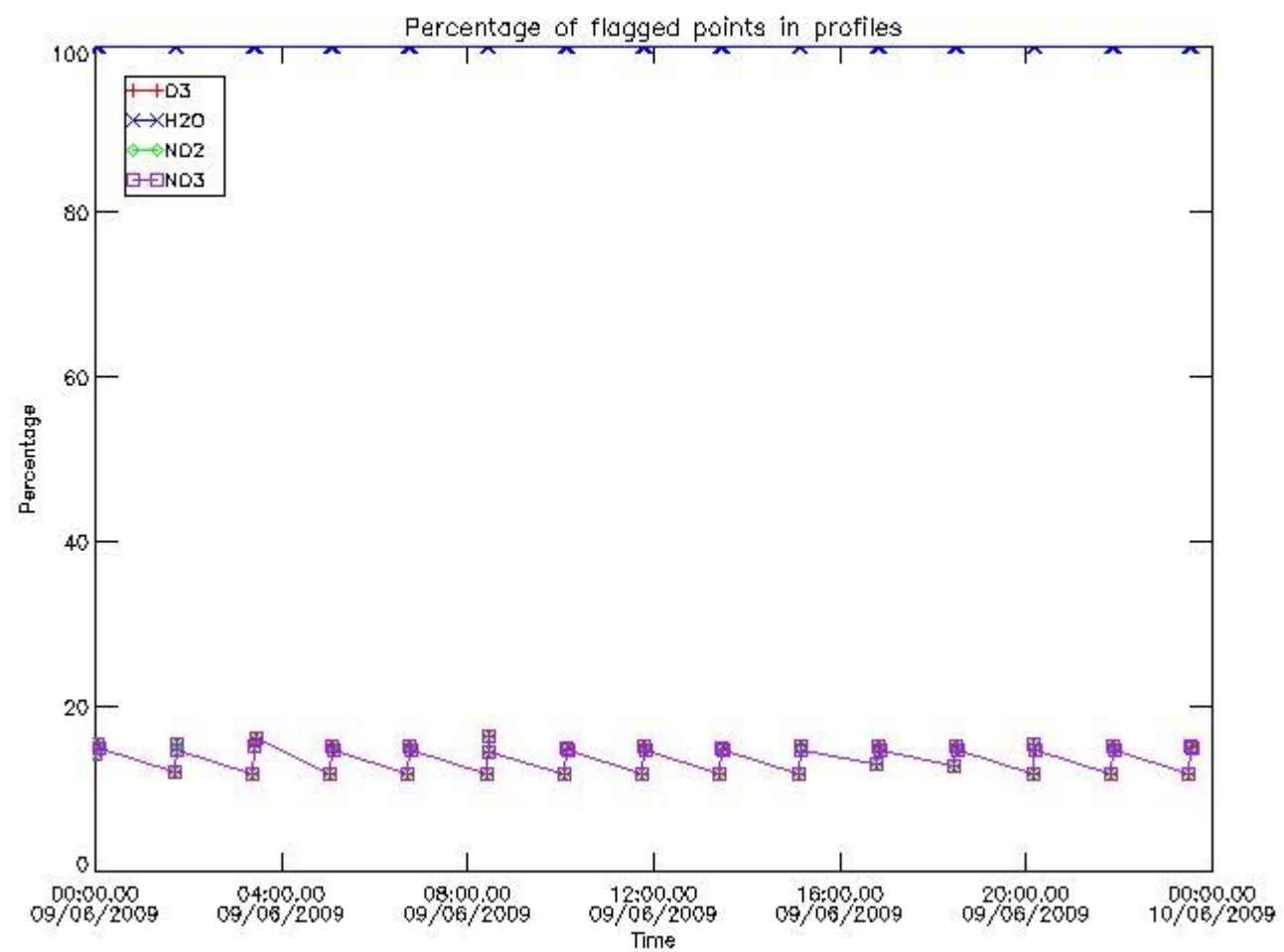
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20090609_000049_000000432079_00403_38032_1740.N1	09-JUN-2009 00:00:49	Dark	43.000	18	24Alp PsA	1.1660	9700.0	86	38032	No
2	GOM_NL__2PRFIN20090609_000313_000000332079_00403_38032_1741.N1	09-JUN-2009 00:03:13	Dark	33.000	63	Bet Gru	2.1500	2800.0	66	38032	No
3	GOM_NL__2PRFIN20090609_000513_000000342079_00403_38032_1742.N1	09-JUN-2009 00:05:13	Dark	34.000	31	Alp Gru	1.7340	15200.	68	38032	No
4	GOM_NL__2PRFIN20090609_001938_000000312079_00403_38032_1743.N1	09-JUN-2009 00:19:38	Twilight	31.000	38	20Eps Sgr	1.8360	11000.	62	38032	No
5	GOM_NL__2PRFIN20090609_002137_000000382079_00403_38032_1744.N1	09-JUN-2009 00:21:37	Twilight	37.500	57	34Sig Sgr	2.0660	26000.	75	38032	No
6	GOM_NL__2PRFIN20090609_003410_000000362079_00403_38032_1745.N1	09-JUN-2009 00:34:10	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	38032	No
7	GOM_NL__2PRFIN20090609_003650_000000352079_00403_38032_1746.N1	09-JUN-2009 00:36:50	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	38032	No
8	GOM_NL__2PRFIN20090609_004844_000000312079_00403_38032_1747.N1	09-JUN-2009 00:48:44	Bright	30.500	130	23Bet Dra	2.7990	5800.0	61	38032	No
9	GOM_NL__2PRFIN20090609_005930_000000312079_00403_38032_1748.N1	09-JUN-2009 00:59:30	Twilight	31.000	89	5Alp Cep	2.4510	8000.0	62	38032	No
10	GOM_NL__2PRFIN20090609_010520_000000252079_00403_38032_1749.N1	09-JUN-2009 01:05:20	Twilight	25.000	74	11Bet Cas	2.2680	6600.0	50	38032	No
11	GOM_NL__2PRFIN20090609_011337_000000232079_00403_38032_1750.N1	09-JUN-2009 01:13:37	Twilight	23.000	53	43Bet And	2.0480	3300.0	46	38032	No
12	GOM_NL__2PRFIN20090609_014126_000000432079_00404_38033_1756.N1	09-JUN-2009 01:41:26	Dark	42.500	18	24Alp PsA	1.1660	9700.0	85	38033	No
13	GOM_NL__2PRFIN20090609_014350_000000332079_00404_38033_1757.N1	09-JUN-2009 01:43:50	Dark	33.000	63	Bet Gru	2.1500	2800.0	66	38033	No
14	GOM_NL__2PRFIN20090609_014549_000000352079_00404_38033_1758.N1	09-JUN-2009 01:45:49	Dark	34.500	31	Alp Gru	1.7340	15200.	69	38033	No
15	GOM_NL__2PRFIN20090609_020014_000000322079_00404_38033_1759.N1	09-JUN-2009 02:00:14	Twilight	31.500	38	20Eps Sgr	1.8360	11000.	63	38033	No
16	GOM_NL__2PRFIN20090609_020213_000000382079_00404_38033_1760.N1	09-JUN-2009 02:02:13	Twilight	37.500	57	34Sig Sgr	2.0660	26000.	75	38033	No
17	GOM_NL__2PRFIN20090609_021446_000000362079_00404_38033_1761.N1	09-JUN-2009 02:14:46	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	38033	No
18	GOM_NL__2PRFIN20090609_021725_000000352079_00404_38033_1762.N1	09-JUN-2009 02:17:25	Bright	35.000	59	55Alp Oph	2.0800	8900.0	70	38033	No
19	GOM_NL__2PRFIN20090609_022919_000000312079_00404_38033_1763.N1	09-JUN-2009 02:29:19	Bright	30.500	130	23Bet Dra	2.7990	5800.0	61	38033	No
20	GOM_NL__2PRFIN20090609_024005_000000312079_00404_38033_1764.N1	09-JUN-2009 02:40:05	Twilight	31.000	89	5Alp Cep	2.4510	8000.0	62	38033	No
21	GOM_NL__2PRFIN20090609_024556_000000262079_00404_38033_1765.N1	09-JUN-2009 02:45:56	Twilight	25.500	74	11Bet Cas	2.2680	6600.0	51	38033	No
22	GOM_NL__2PRFIN20090609_025413_000000242079_00404_38033_1766.N1	09-JUN-2009 02:54:13	Twilight	24.000	53	43Bet And	2.0480	3300.0	48	38033	No
23	GOM_NL__2PRFIN20090609_032204_000000432079_00405_38034_1770.N1	09-JUN-2009 03:22:04	Dark	43.000	18	24Alp PsA	1.1660	9700.0	86	38034	No
24	GOM_NL__2PRFIN20090609_032426_000000342079_00405_38034_1771.N1	09-JUN-2009 03:24:26	Dark	33.500	63	Bet Gru	2.1500	2800.0	67	38034	No
25	GOM_NL__2PRFIN20090609_032627_000000352079_00405_38034_1772.N1	09-JUN-2009 03:26:27	Dark	34.500	31	Alp Gru	1.7340	15200.	69	38034	No
26	GOM_NL__2PRFIN20090609_034050_000000322079_00405_38034_1773.N1	09-JUN-2009 03:40:50	Twilight	31.500	38	20Eps Sgr	1.8360	11000.	63	38034	No
27	GOM_NL__2PRFIN20090609_034250_000000382079_00405_38034_1774.N1	09-JUN-2009 03:42:50	Twilight	37.500	57	34Sig Sgr	2.0660	26000.	75	38034	No
28	GOM_NL__2PRFIN20090609_035522_000000362079_00405_38034_1775.N1	09-JUN-2009 03:55:22	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	38034	No
29	GOM_NL__2PRFIN20090609_035801_000000352079_00405_38034_1776.N1	09-JUN-2009 03:58:01	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	38034	No
30	GOM_NL__2PRFIN20090609_040955_000000312079_00405_38034_1777.N1	09-JUN-2009 04:09:55	Bright	30.500	130	23Bet Dra	2.7990	5800.0	61	38034	No
31	GOM_NL__2PRFIN20090609_042041_000000312079_00405_38034_1778.N1	09-JUN-2009 04:20:41	Twilight	30.500	89	5Alp Cep	2.4510	8000.0	61	38034	No
32	GOM_NL__2PRFIN20090609_042631_000000262079_00405_38034_1779.N1	09-JUN-2009 04:26:31	Twilight	25.500	74	11Bet Cas	2.2680	6600.0	51	38034	No
33	GOM_NL__2PRFIN20090609_043449_000000242079_00405_38034_1780.N1	09-JUN-2009 04:34:49	Twilight	24.000	53	43Bet And	2.0480	3300.0	48	38034	No
34	GOM_NL__2PRFIN20090609_050241_000000442079_00406_38035_1784.N1	09-JUN-2009 05:02:41	Dark	43.500	18	24Alp PsA	1.1660	9700.0	87	38035	No
35	GOM_NL__2PRFIN20090609_050503_000000342079_00406_38035_1785.N1	09-JUN-2009 05:05:03	Dark	33.500	63	Bet Gru	2.1500	2800.0	67	38035	No
36	GOM_NL__2PRFIN20090609_050703_000000352079_00406_38035_1786.N1	09-JUN-2009 05:07:03	Dark	34.500	31	Alp Gru	1.7340	15200.	69	38035	No
37	GOM_NL__2PRFIN20090609_052127_000000312079_00406_38035_1787.N1	09-JUN-2009 05:21:27	Twilight	30.500	38	20Eps Sgr	1.8360	11000.	61	38035	No
38	GOM_NL__2PRFIN20090609_052326_000000382079_00406_38035_1788.N1	09-JUN-2009 05:23:26	Twilight	37.500	57	34Sig Sgr	2.0660	26000.	75	38035	No
39	GOM_NL__2PRFIN20090609_053557_000000352079_00406_38035_1789.N1	09-JUN-2009 05:35:57	Bright	35.000	126	60Bet Oph	2.7700	4250.0	70	38035	No
40	GOM_NL__2PRFIN20090609_053836_000000352079_00406_38035_1790.N1	09-JUN-2009 05:38:36	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	38035	No
41	GOM_NL__2PRFIN20090609_055030_000000312079_00406_38035_1791.N1	09-JUN-2009 05:50:30	Bright	30.500	130	23Bet Dra	2.7990	5800.0	61	38035	No
42	GOM_NL__2PRFIN20090609_060116_000000302079_00406_38035_1792.N1	09-JUN-2009 06:01:16	Twilight	30.000	89	5Alp Cep	2.4510	8000.0	60	38035	No

3. Quality information per product

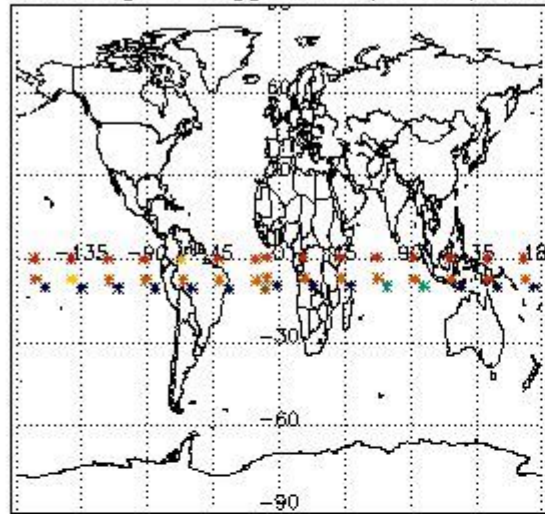
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

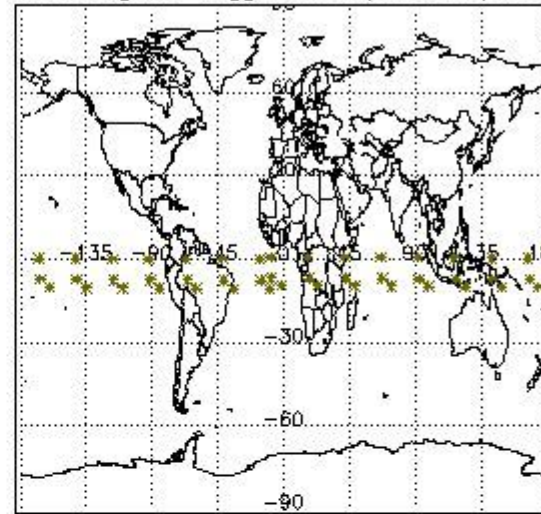


3.2 Plot quality information per product (world map)

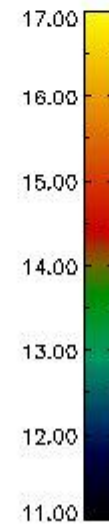
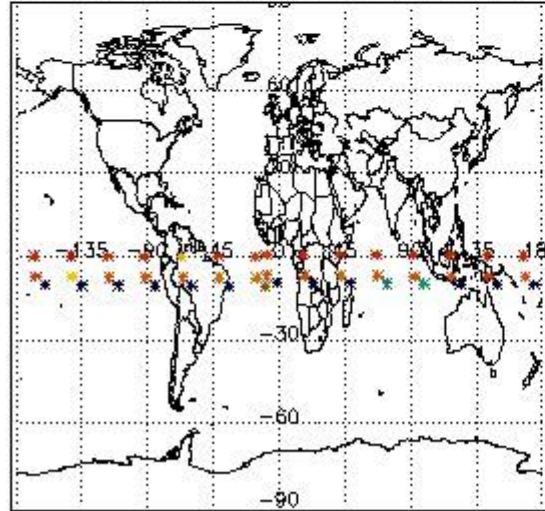
Percentage of flagged data per O3 profile



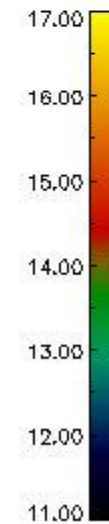
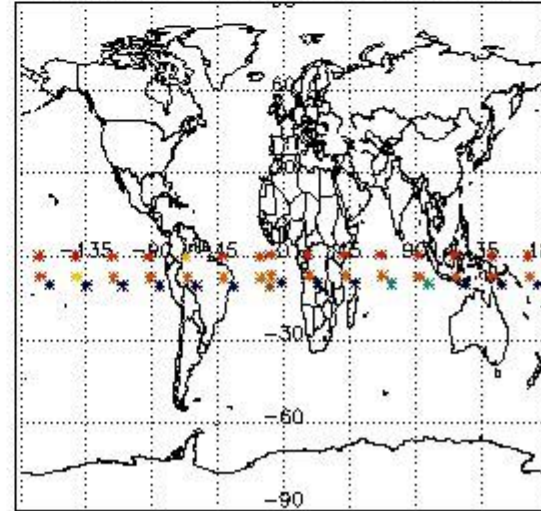
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

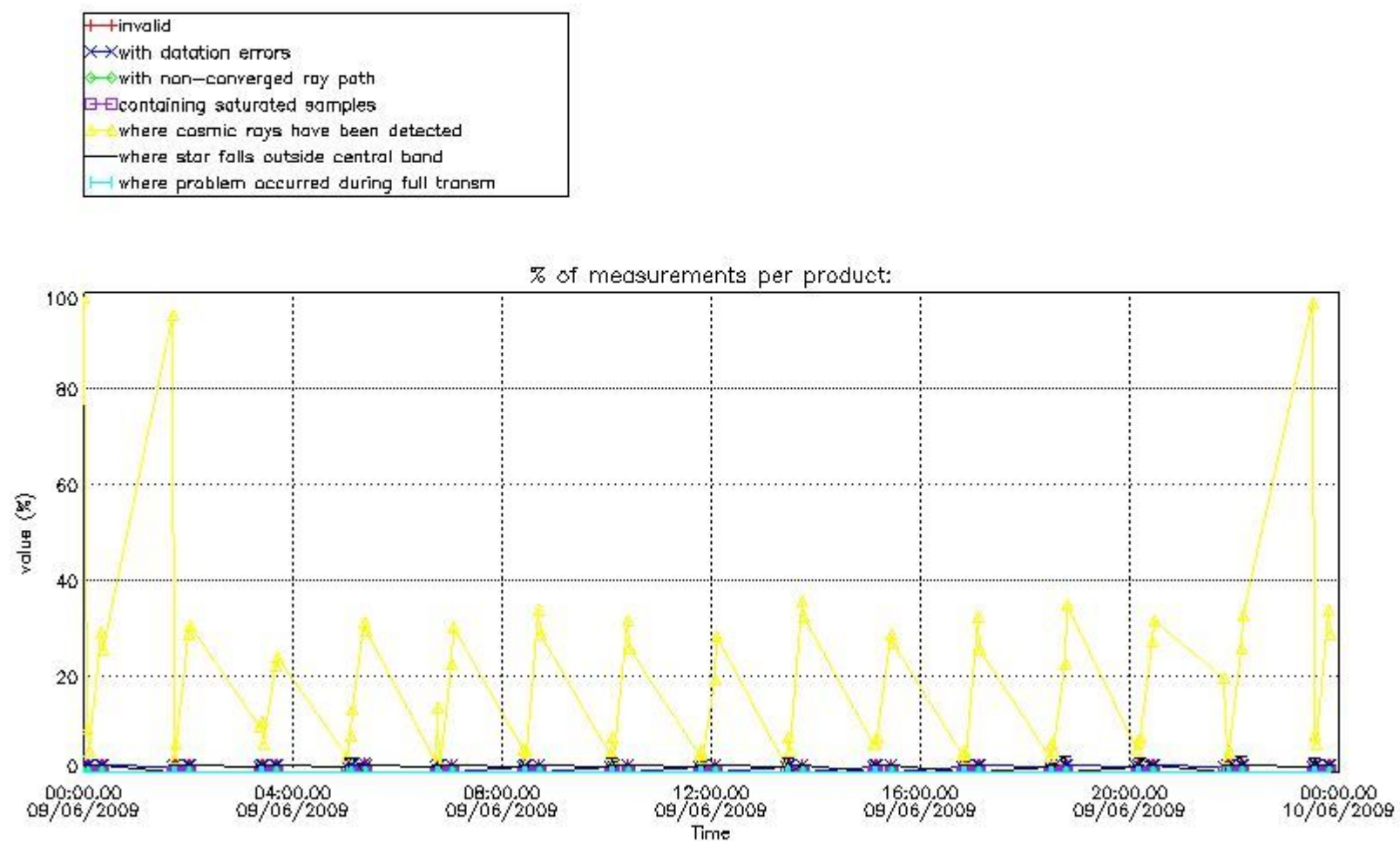


4. Level 1 quality information per product

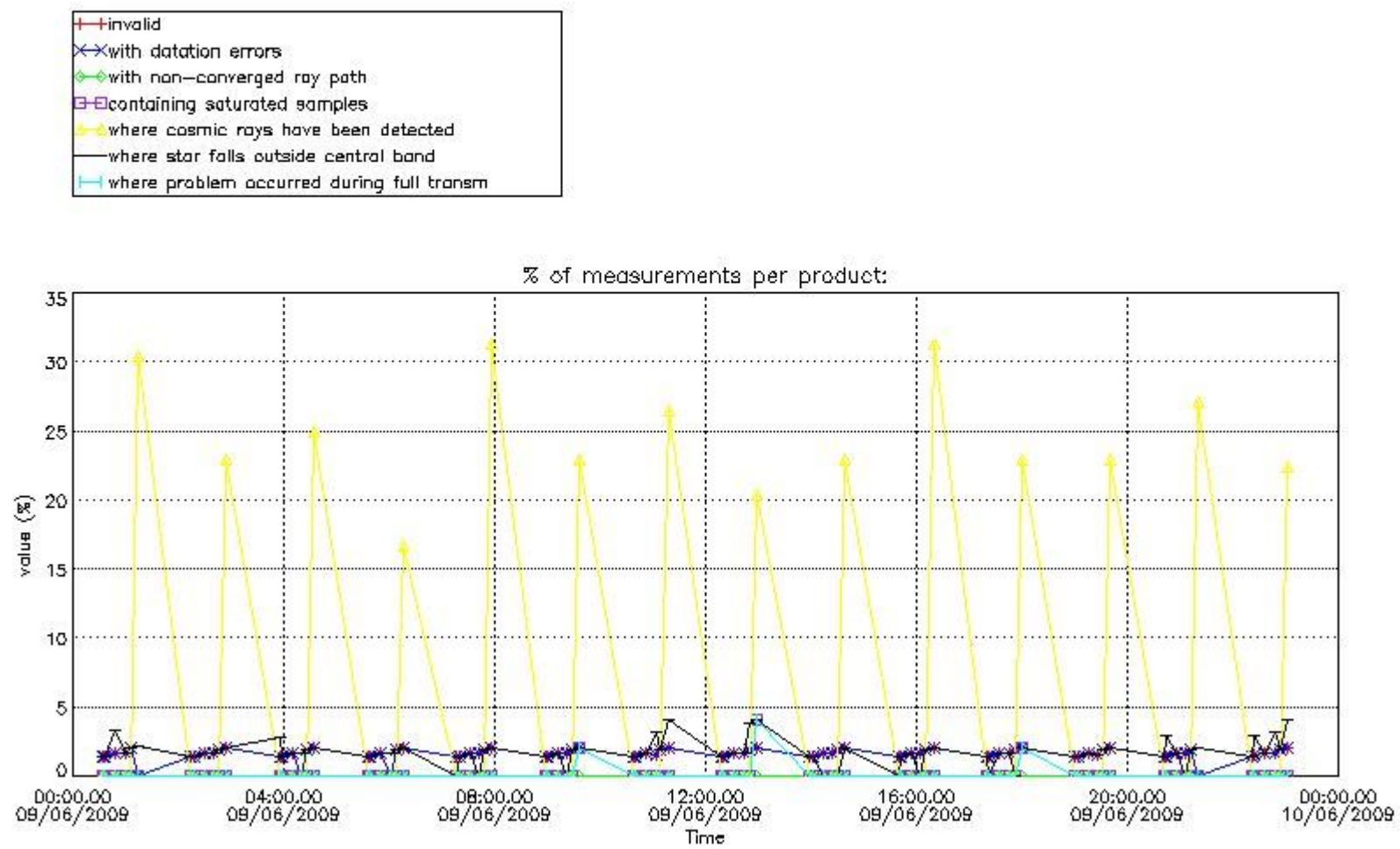
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



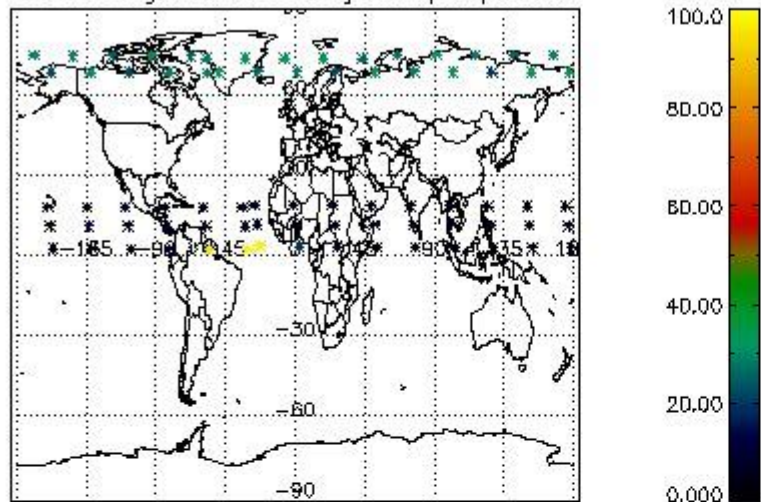
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



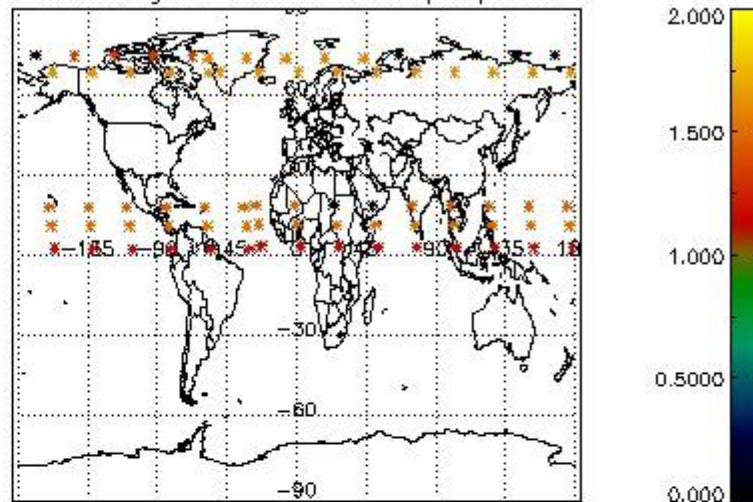
4.2 Plot quality information per product coming from level 1b processing (world map)

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

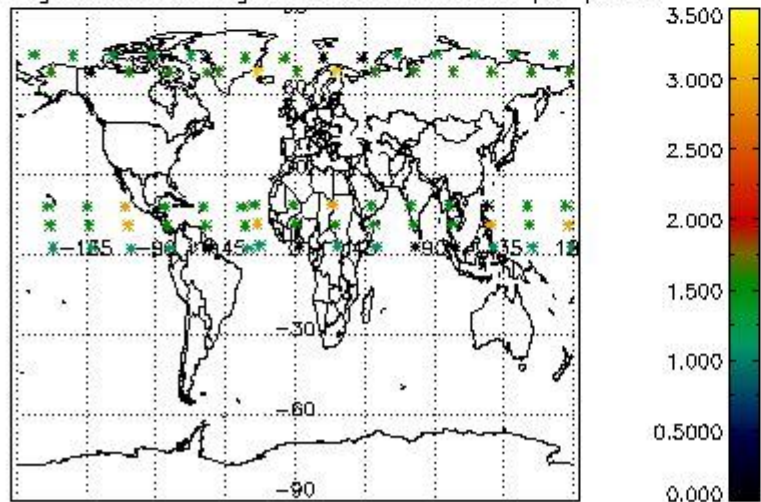
Percentage of cosmic ray hits per profile



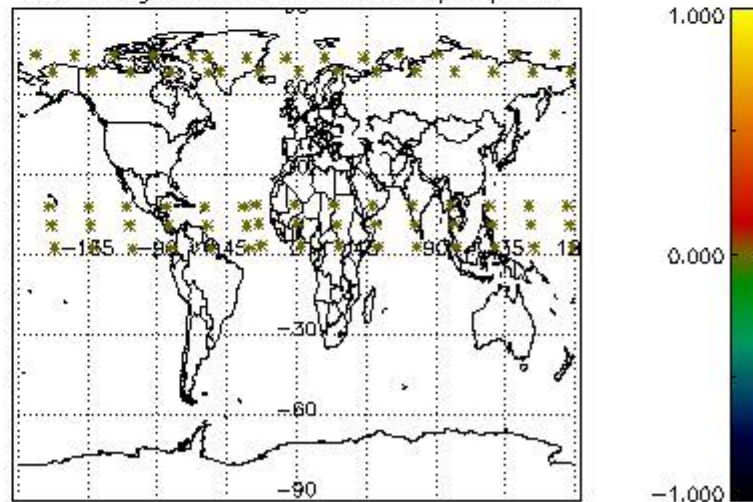
Percentage of datation errors per profile



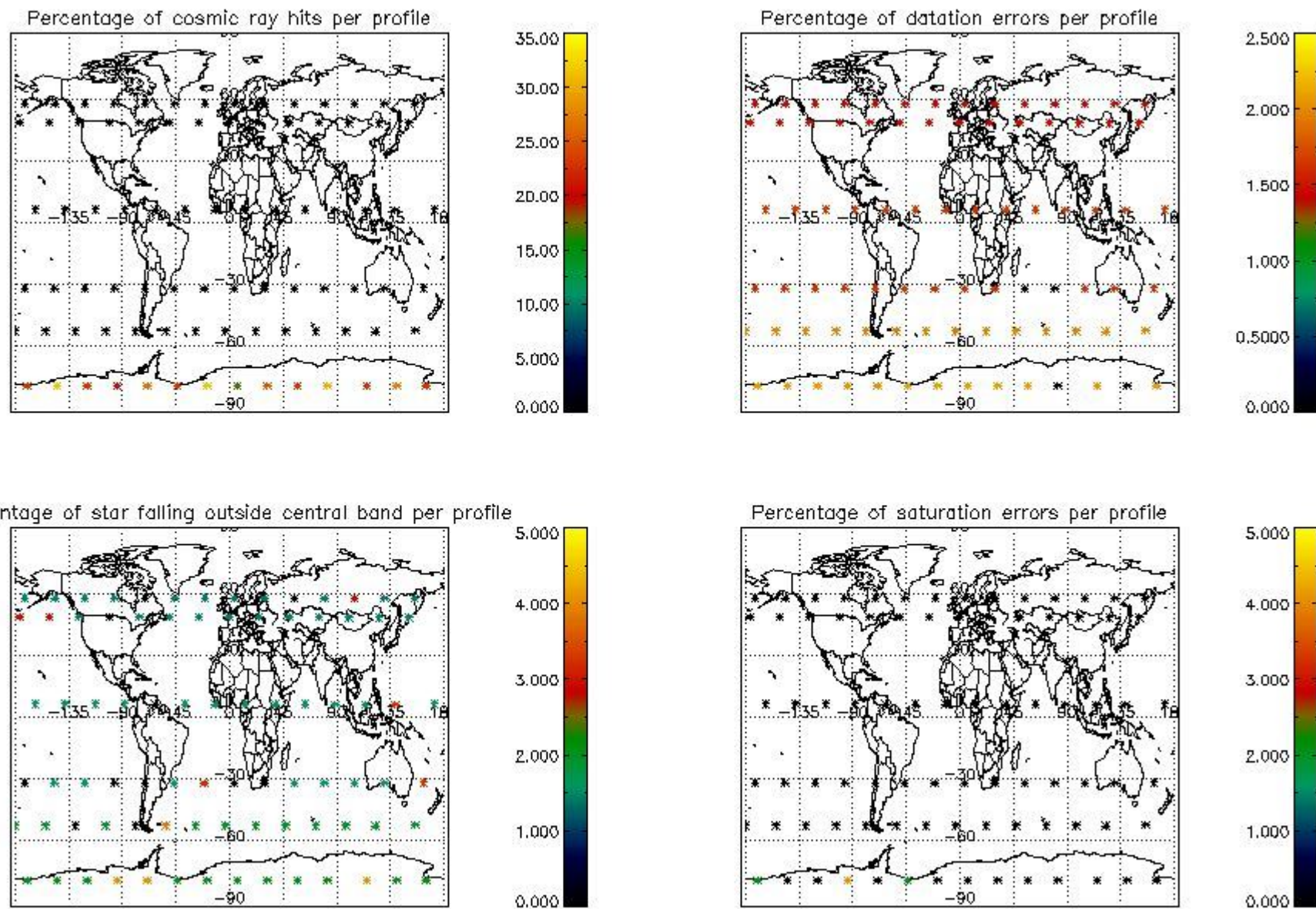
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



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

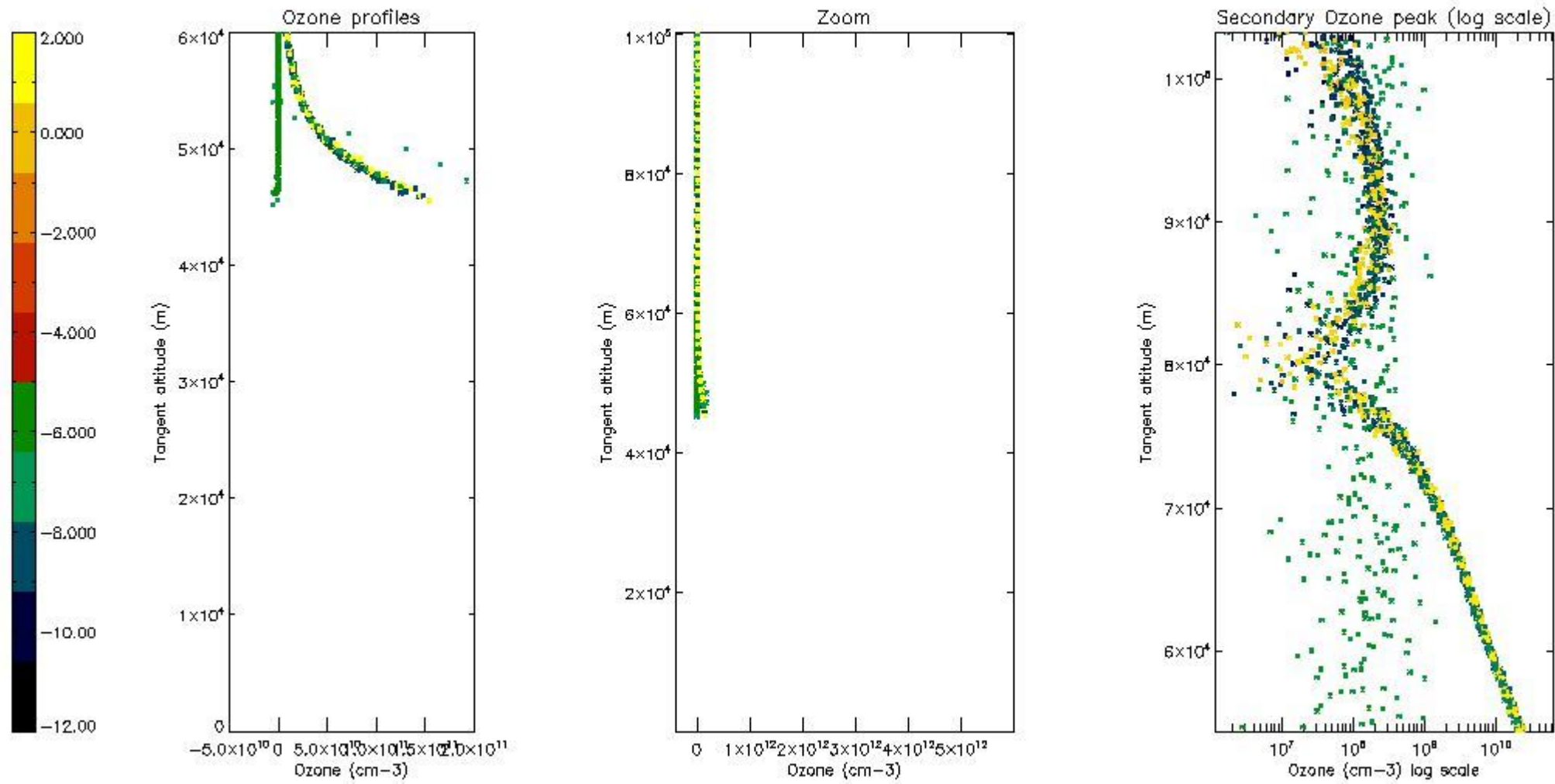
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	33
STD < 20	11

STD < 10	9
STD < 5	8

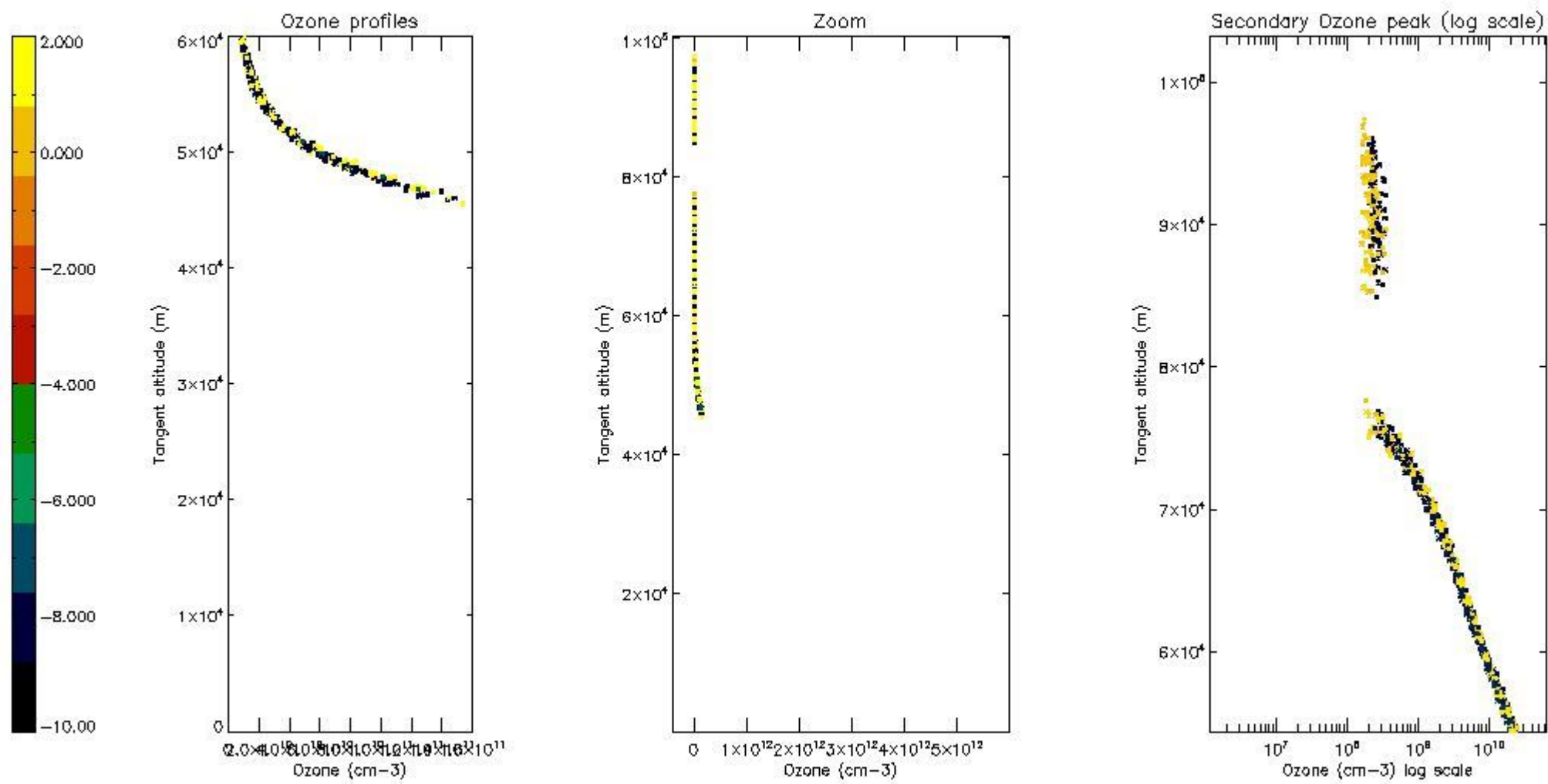
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



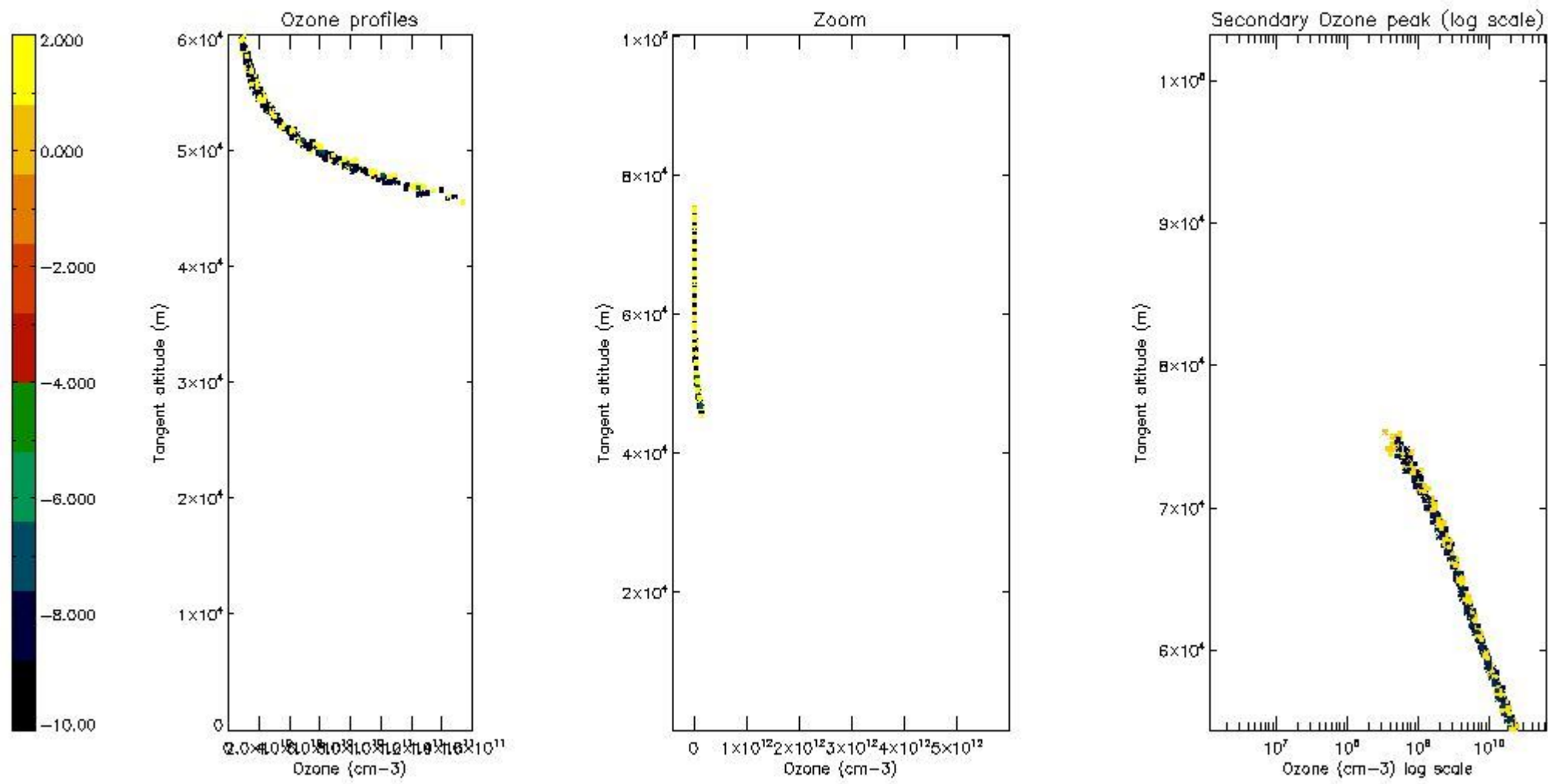
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



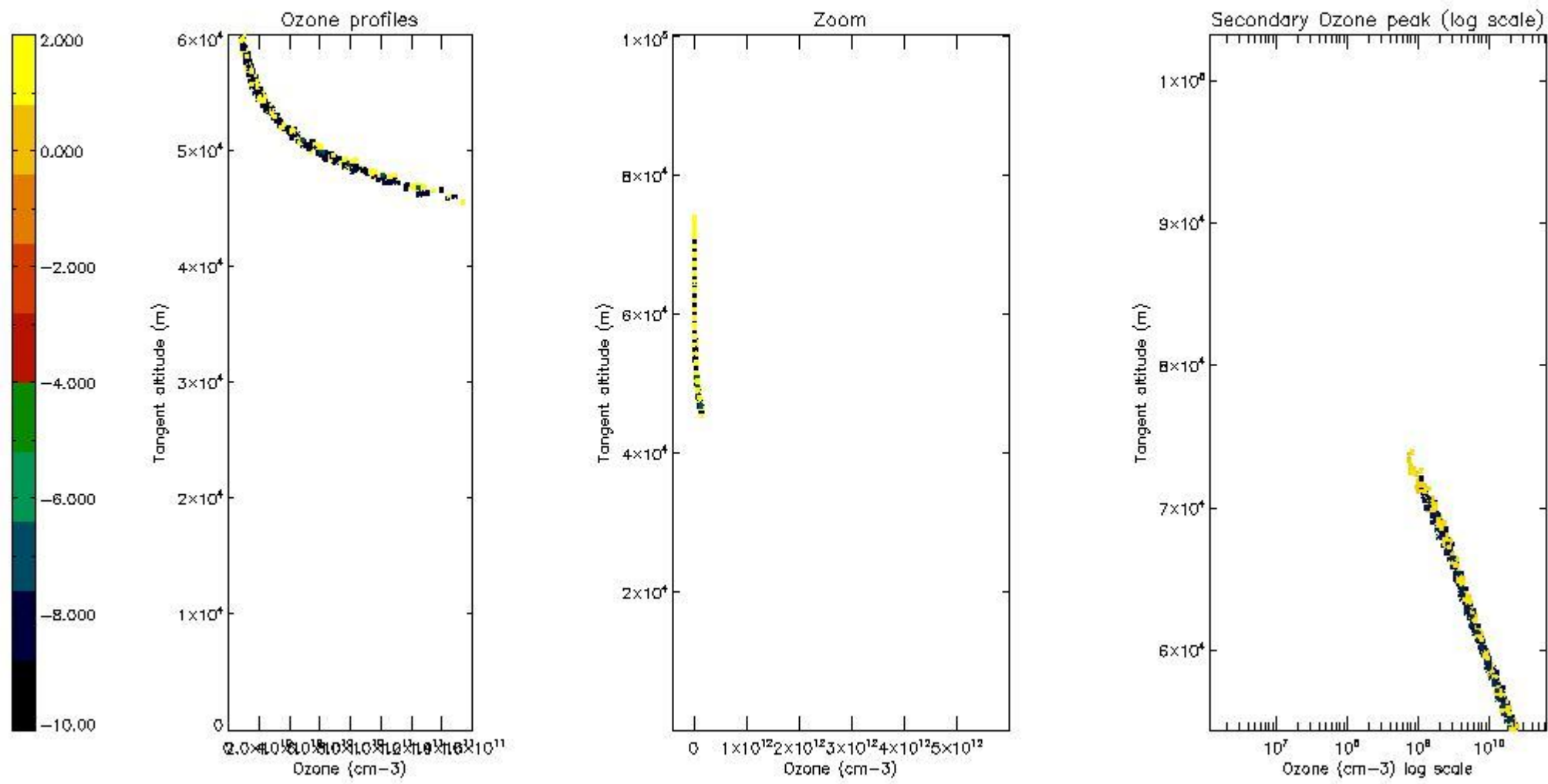
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



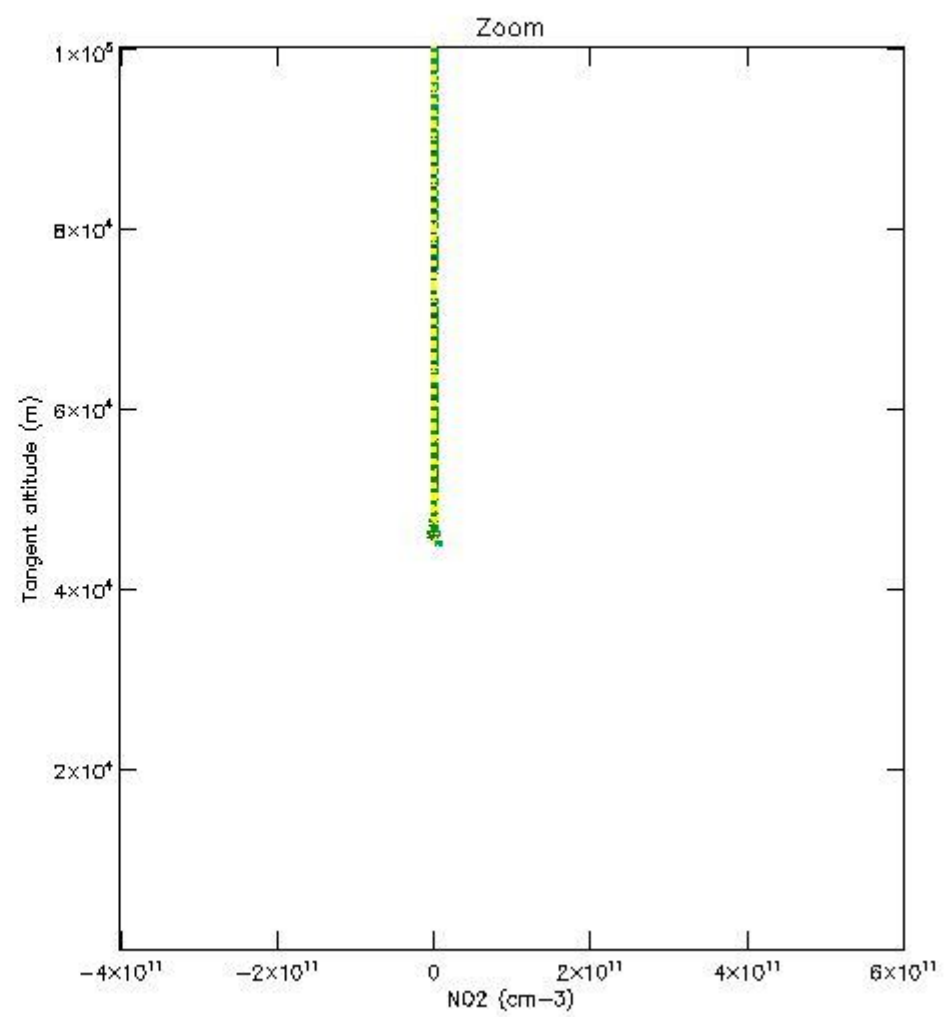
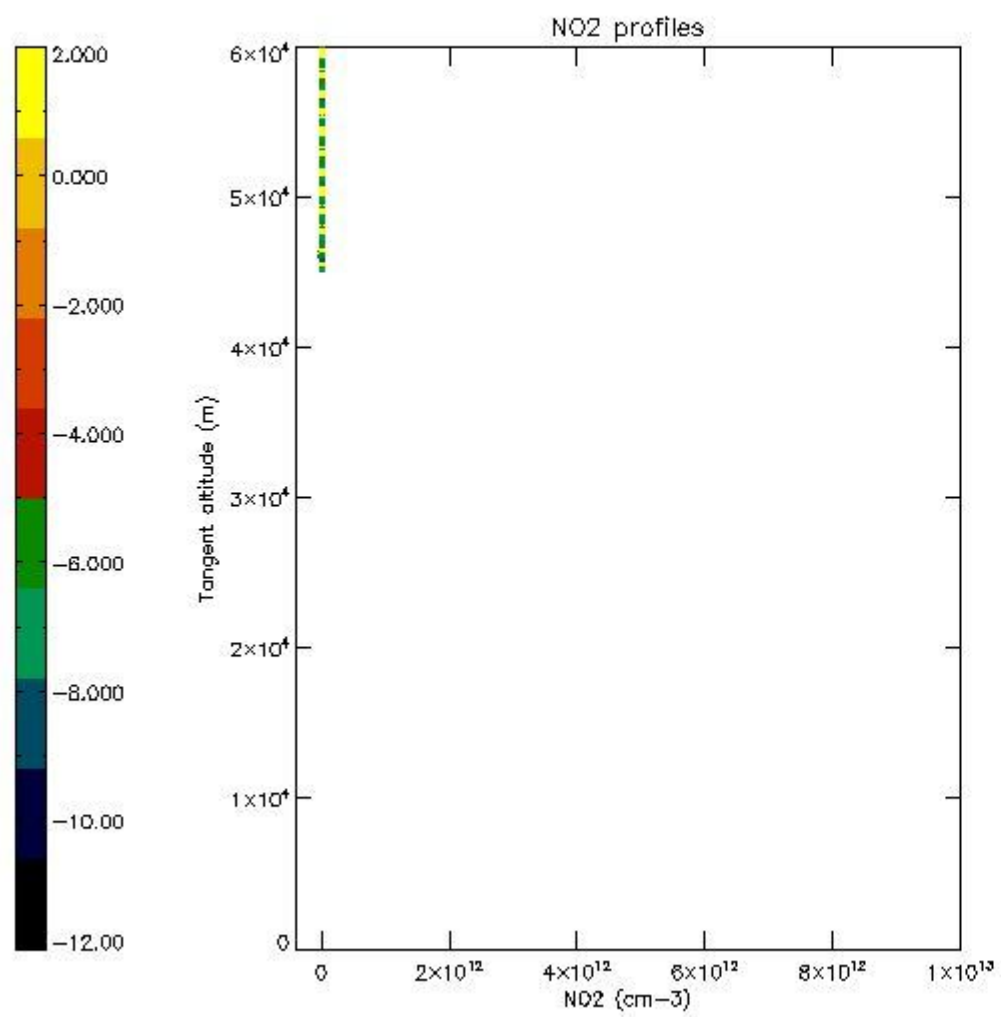
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



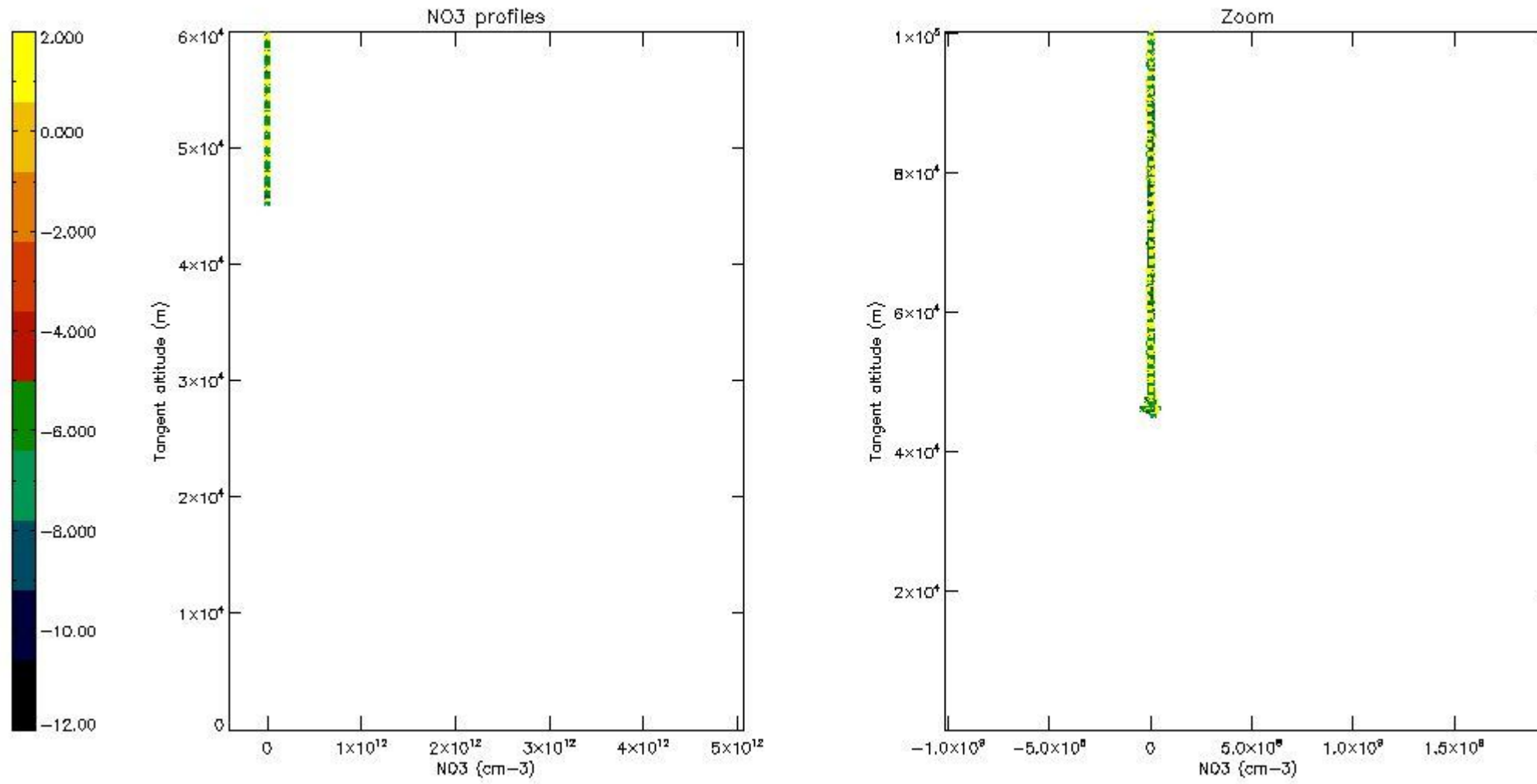
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

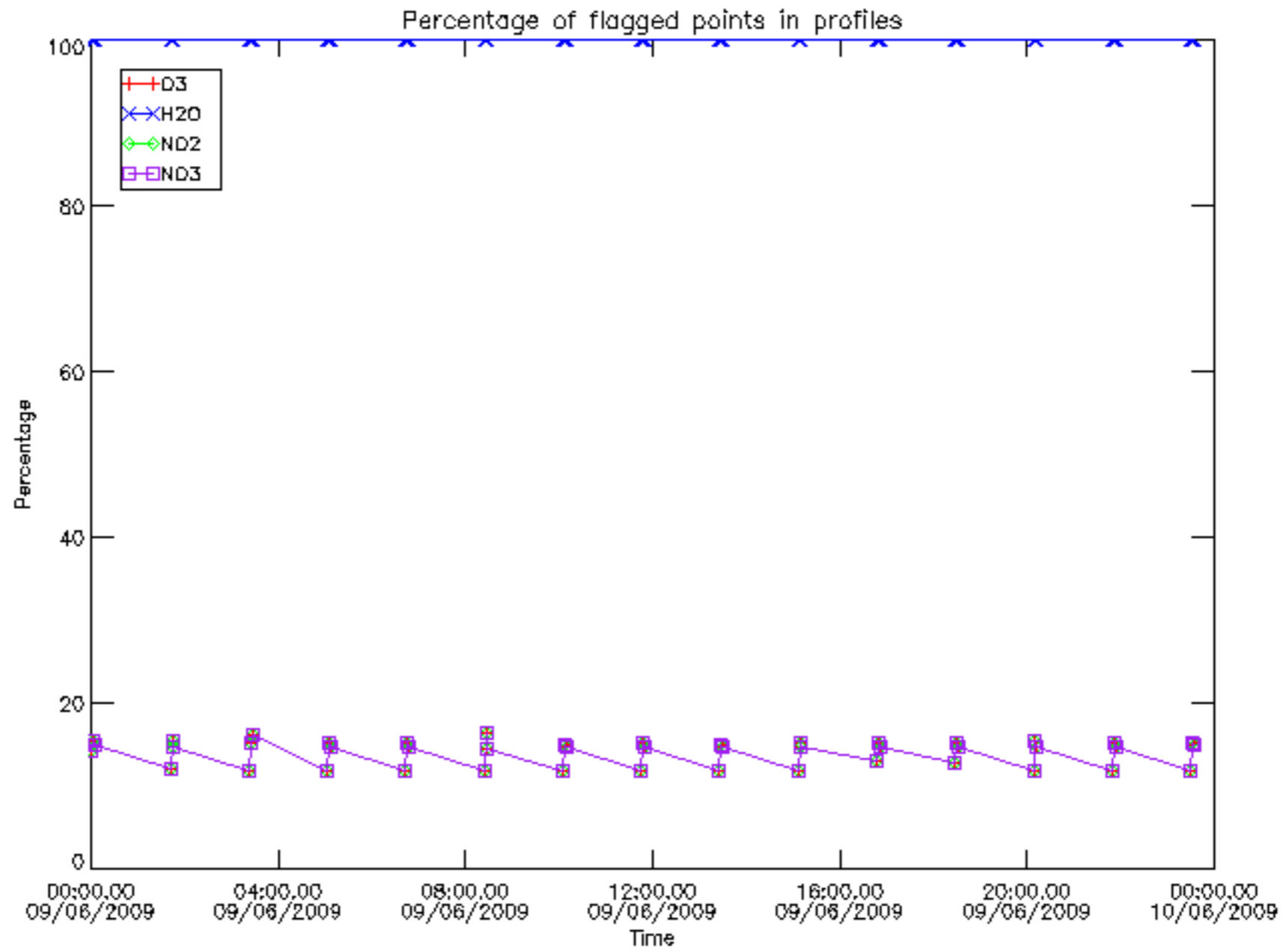
The colorbar represents the latitude.



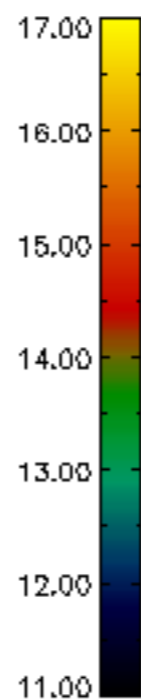
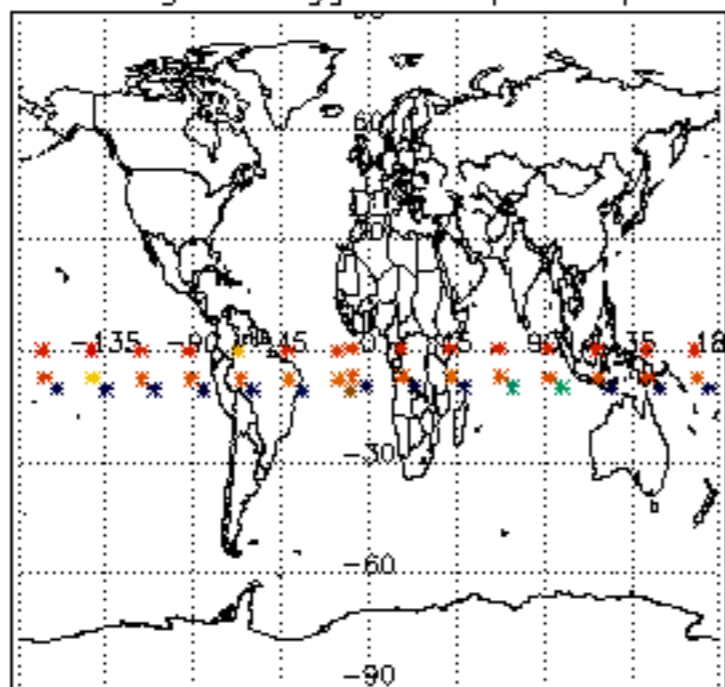
6. Auxiliary Data Files used for the production reported in section 2

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.

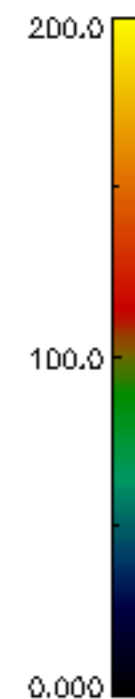
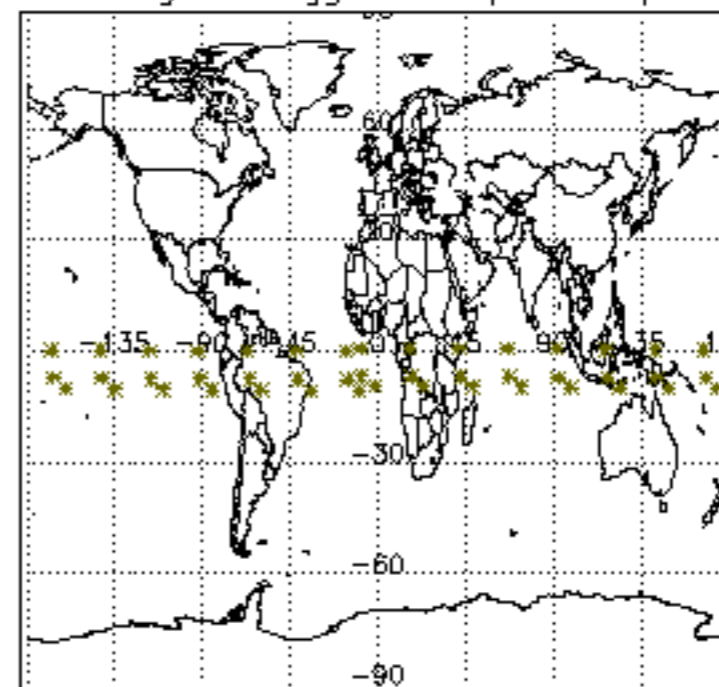
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	09-JUN-2009 00:00:49
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	09-JUN-2009 00:00:49
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	09-JUN-2009 00:00:49



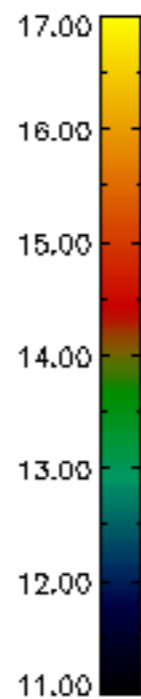
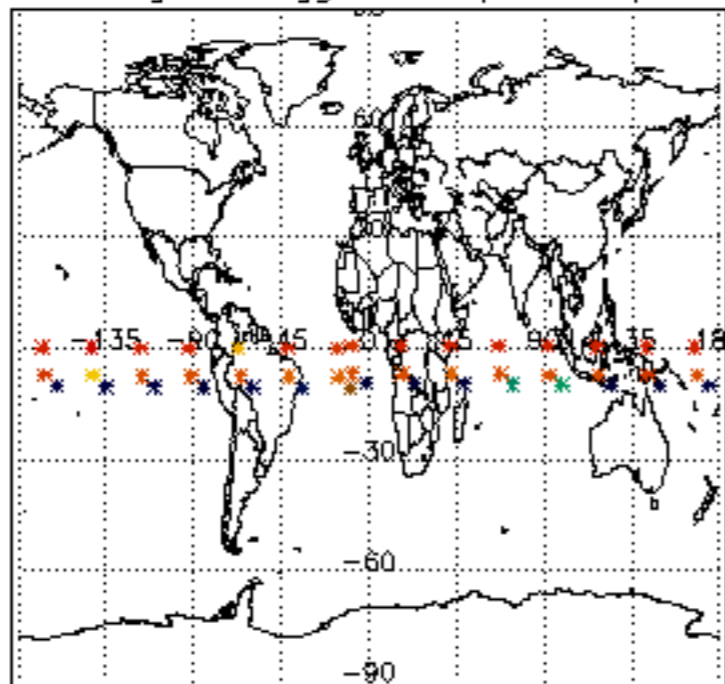
Percentage of flagged data per D3 profile



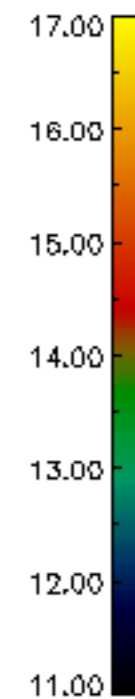
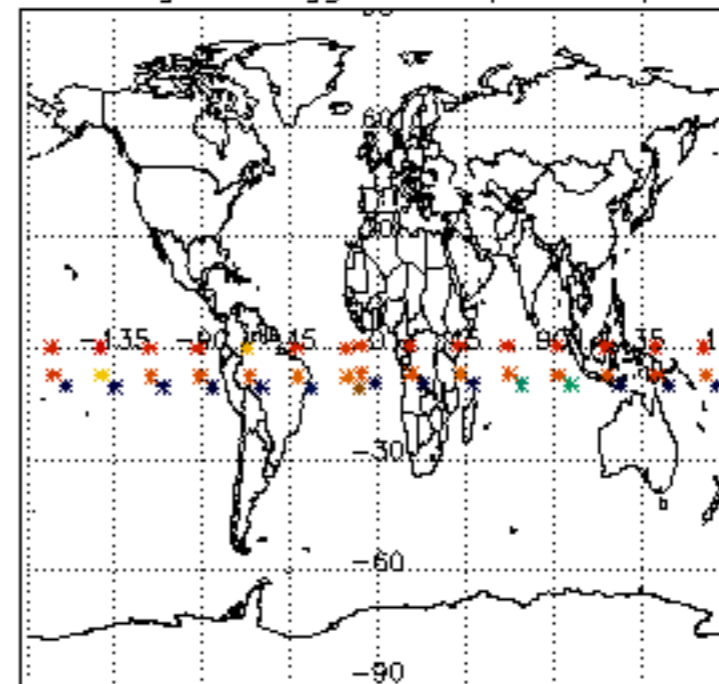
Percentage of flagged data per H2O profile

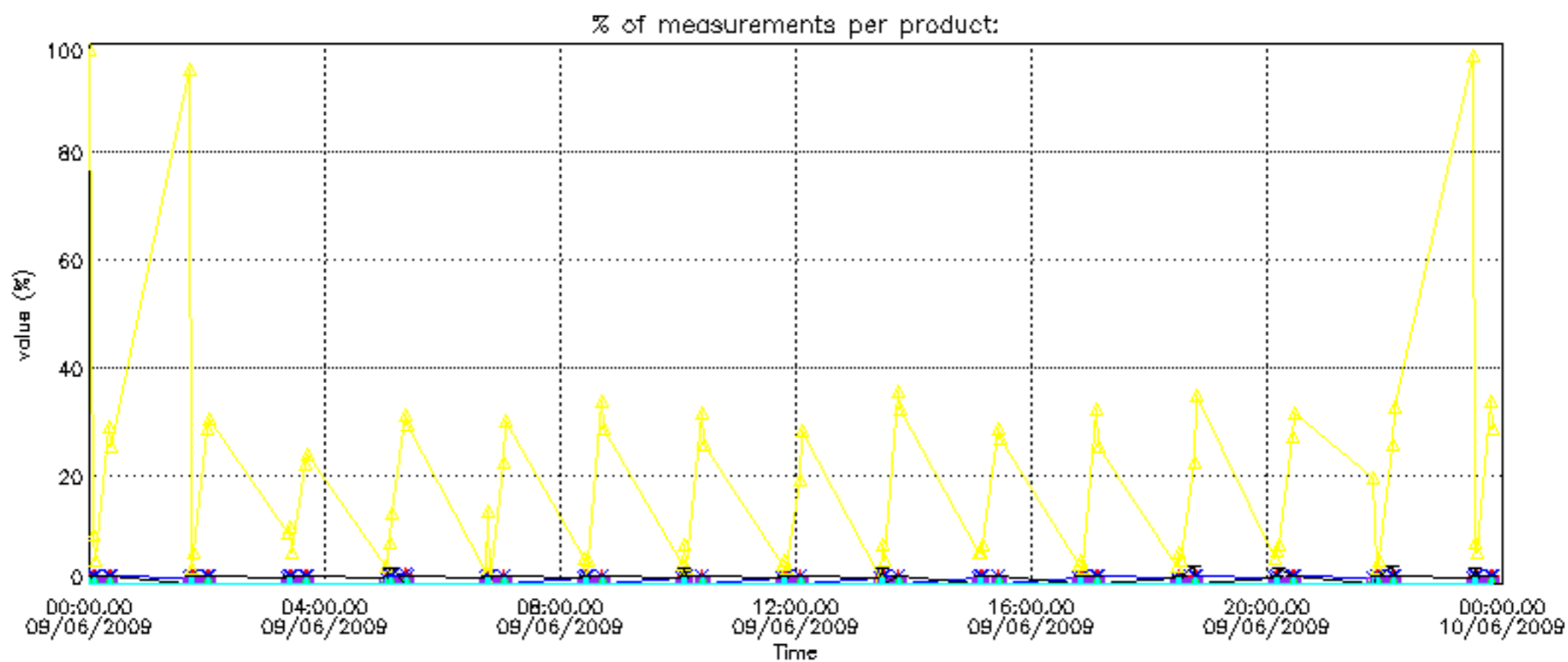
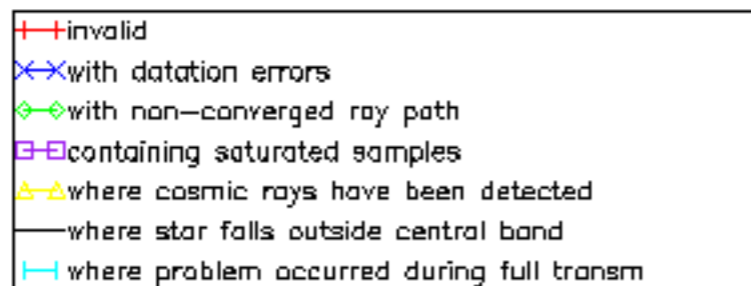


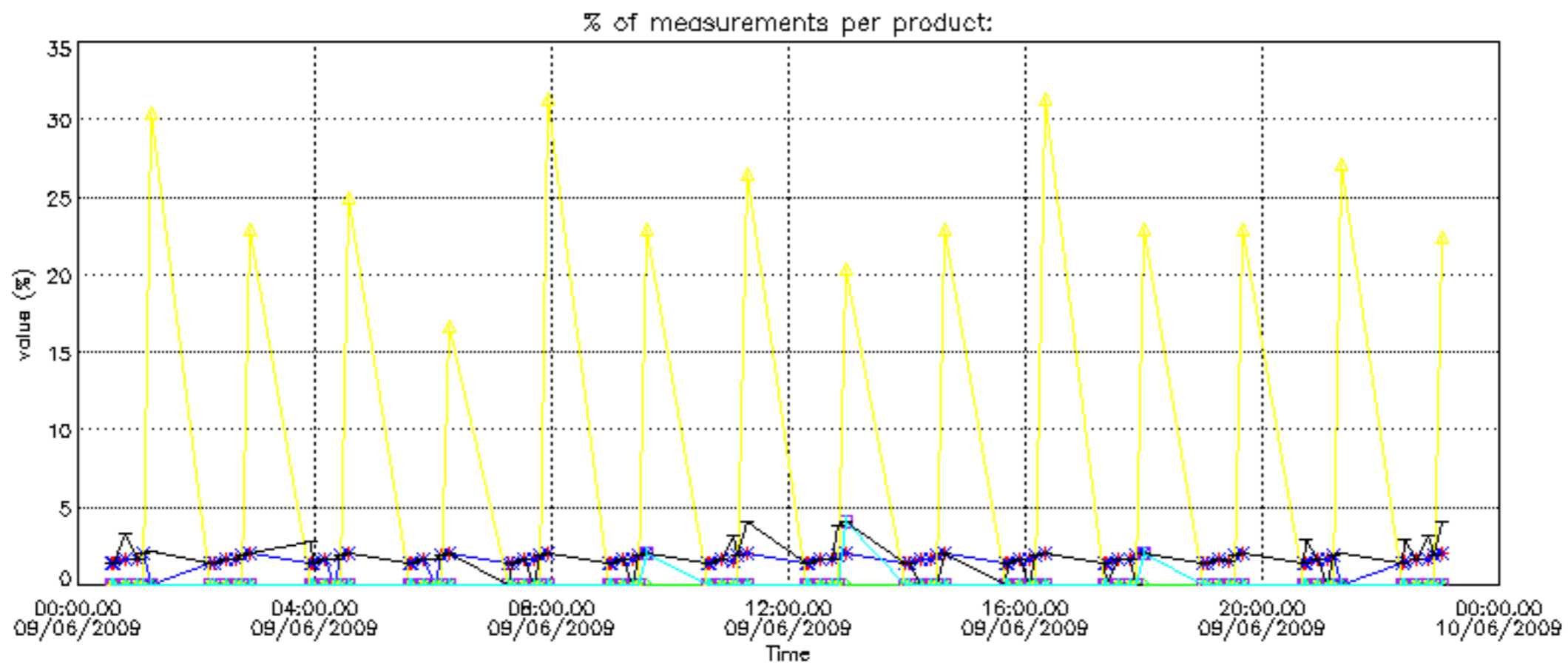
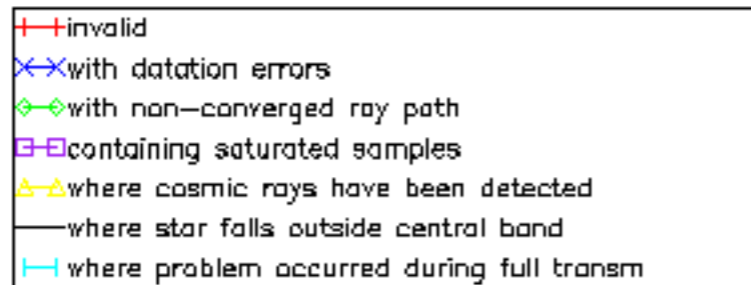
Percentage of flagged data per NO2 profile



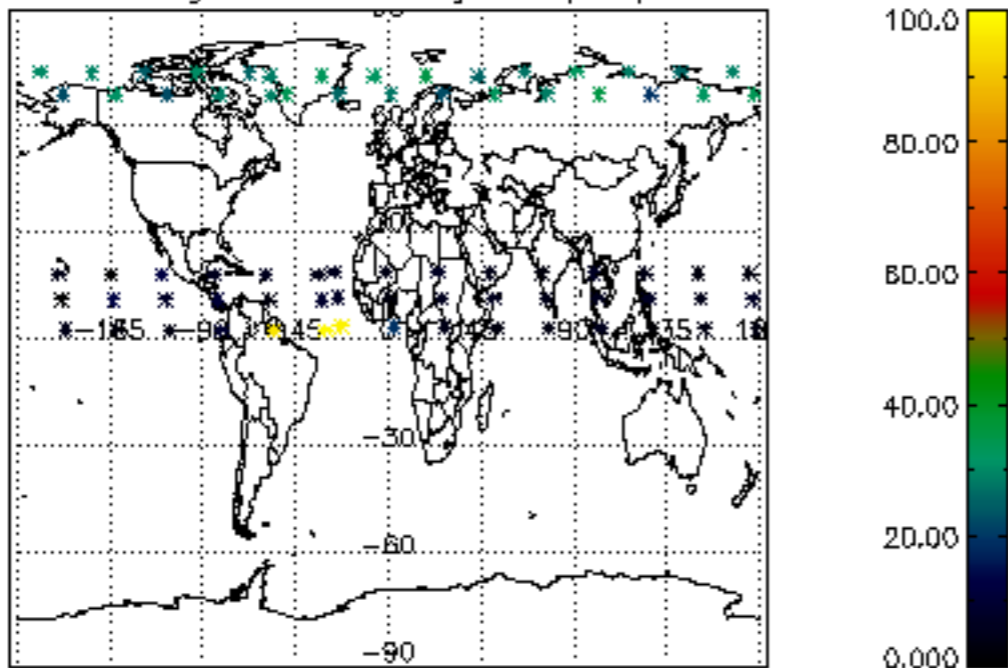
Percentage of flagged data per NO3 profile



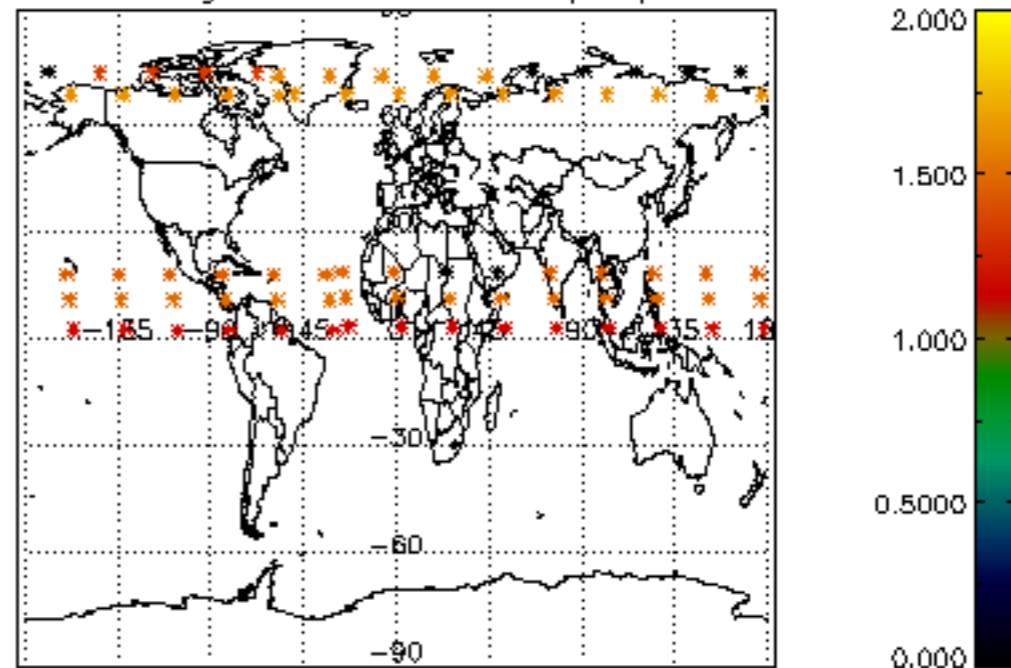




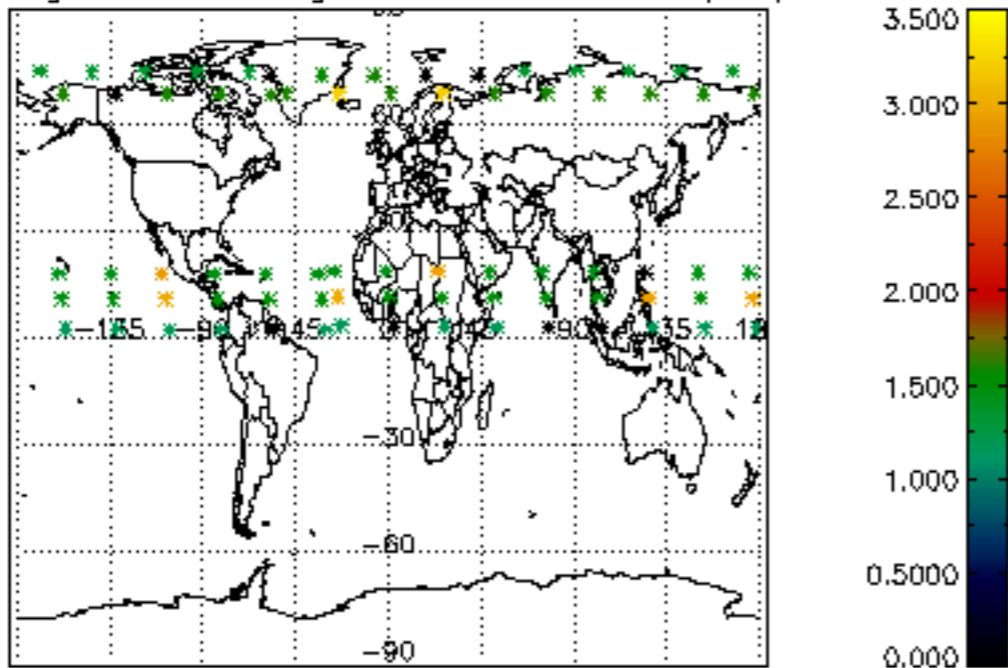
Percentage of cosmic ray hits per profile



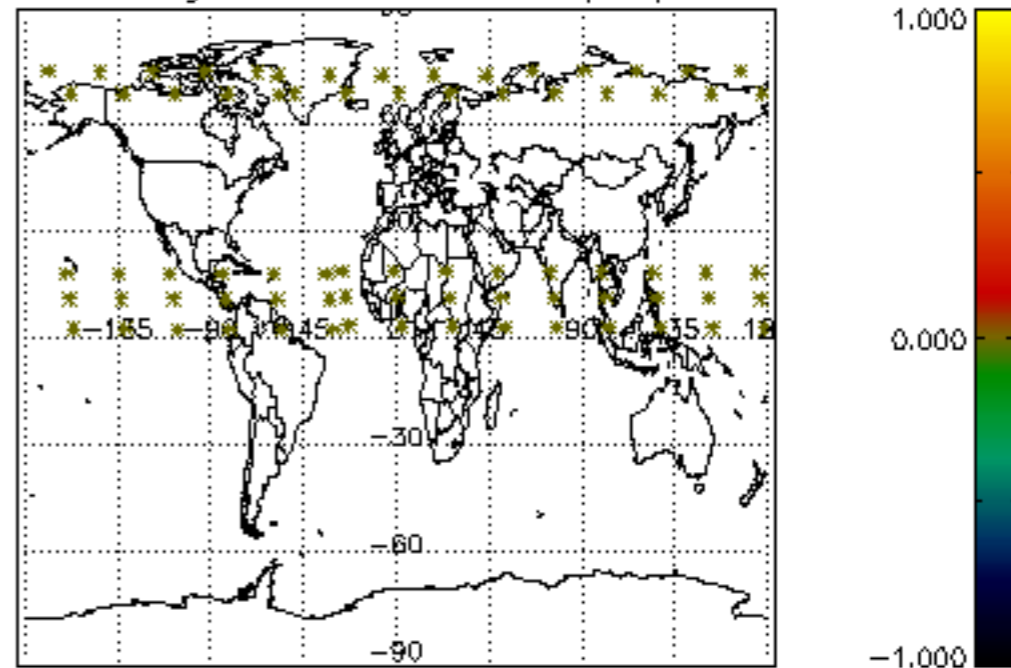
Percentage of datation errors per profile



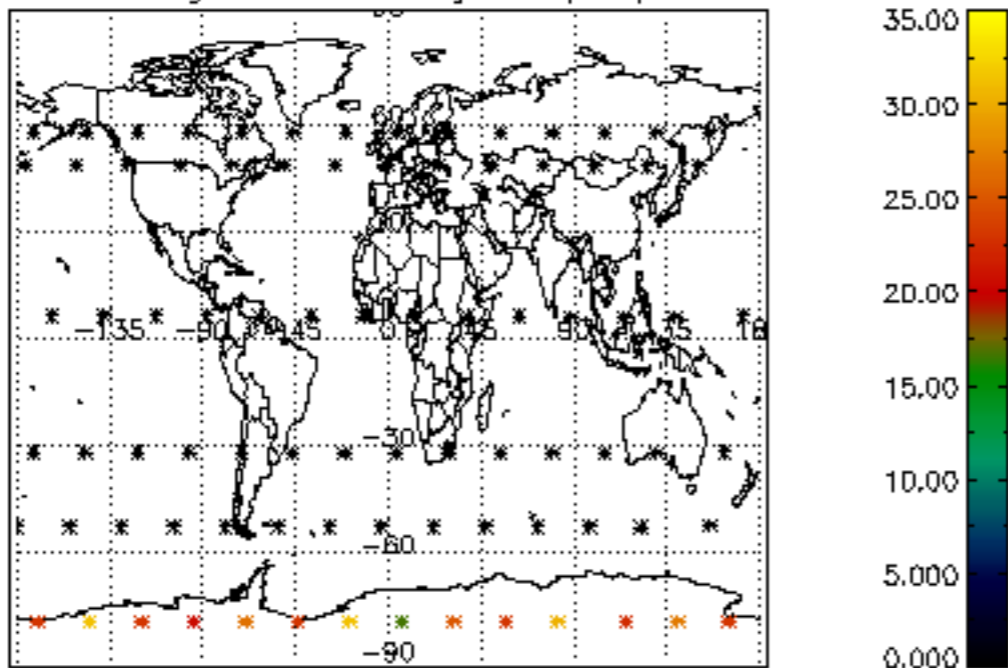
Percentage of star falling outside central band per profile



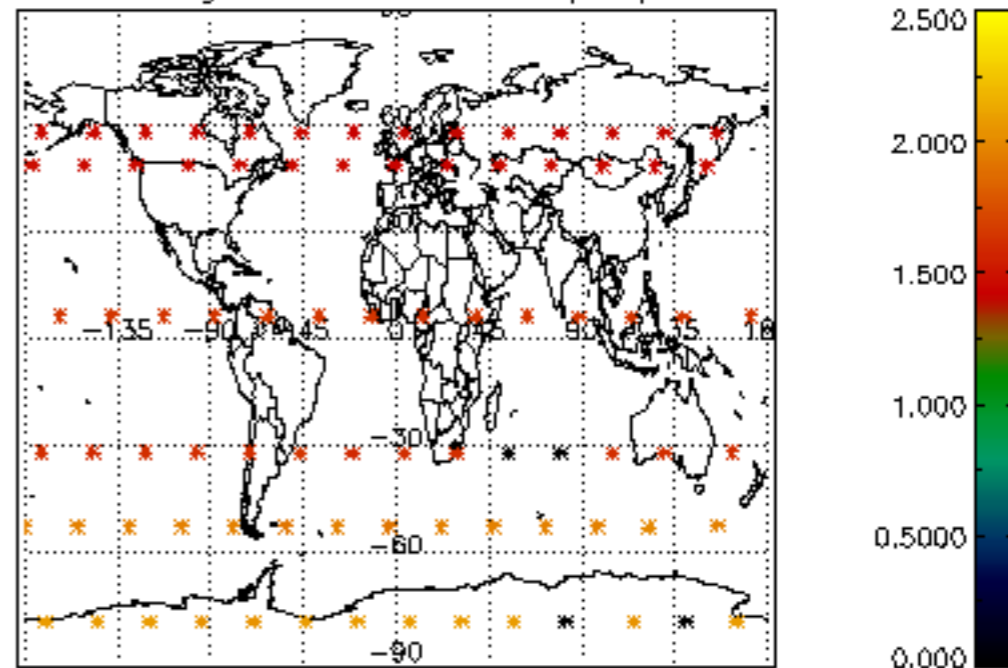
Percentage of saturation errors per profile



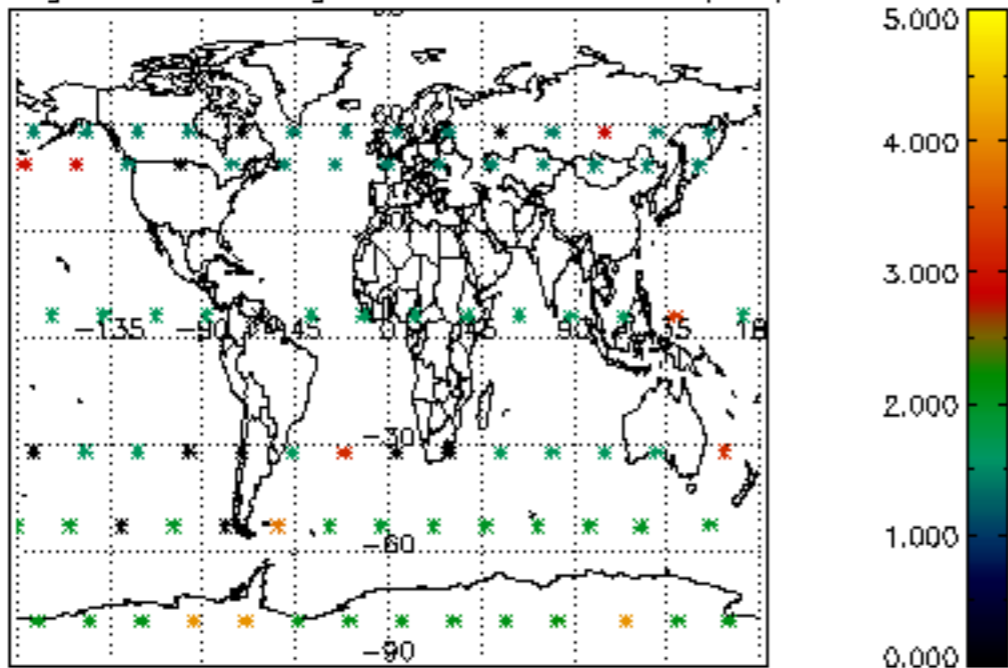
Percentage of cosmic ray hits per profile



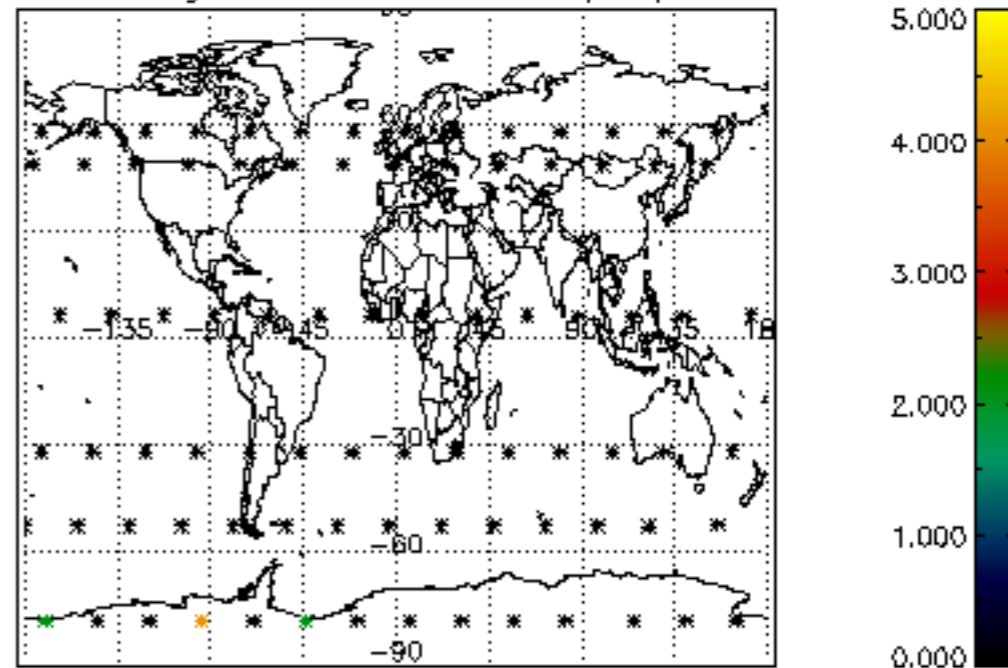
Percentage of datation errors per profile

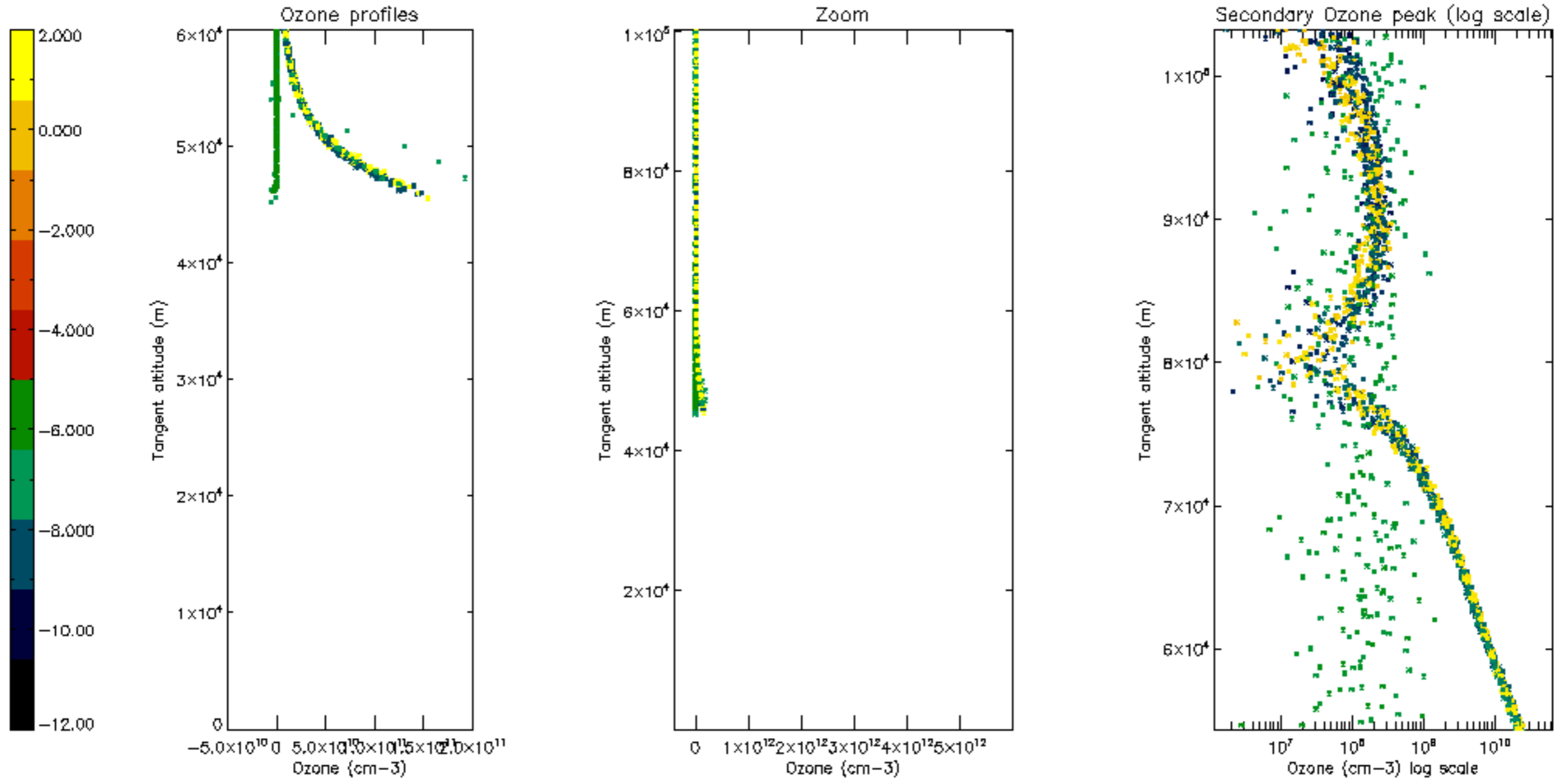


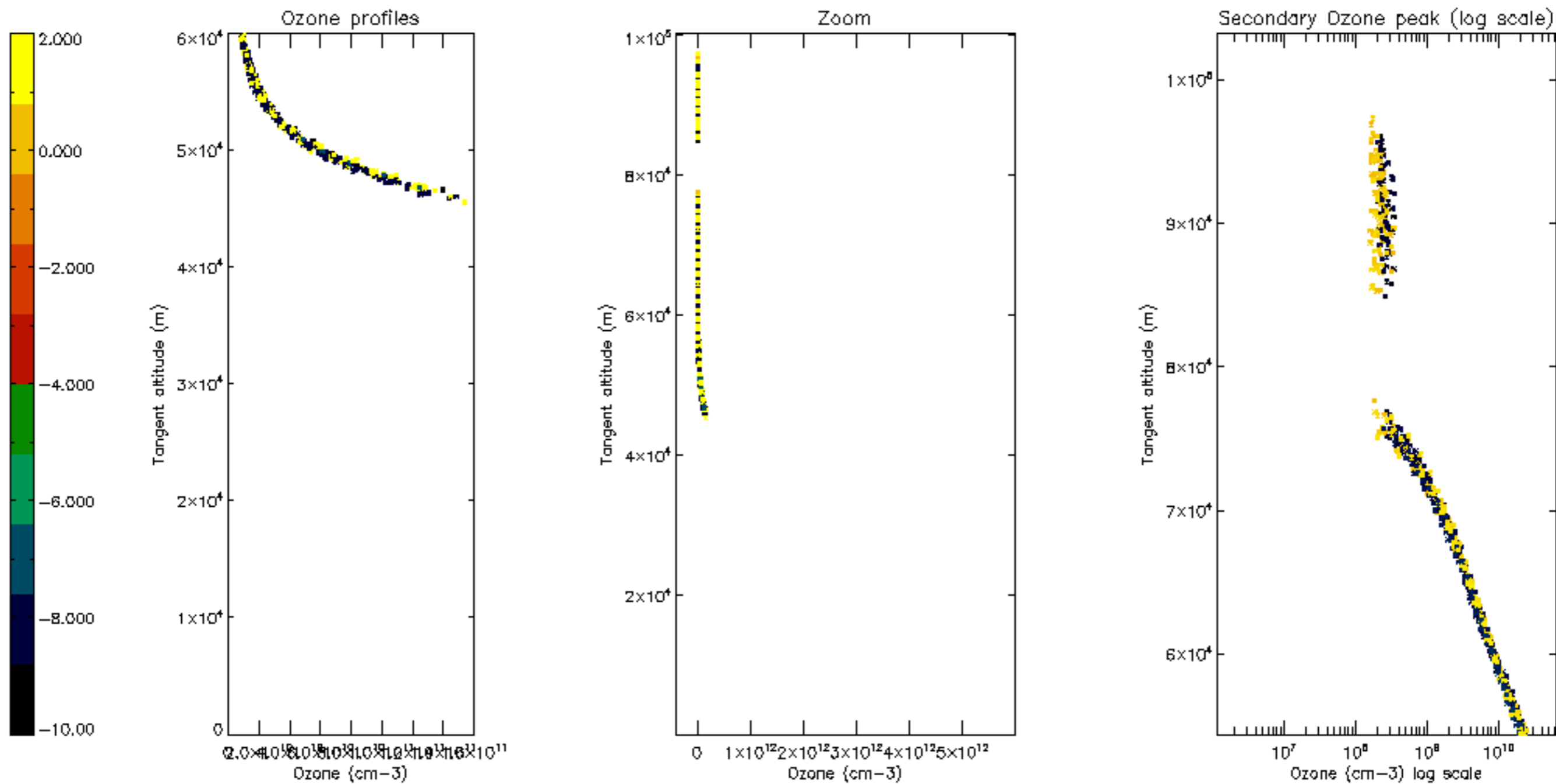
Percentage of star falling outside central band per profile

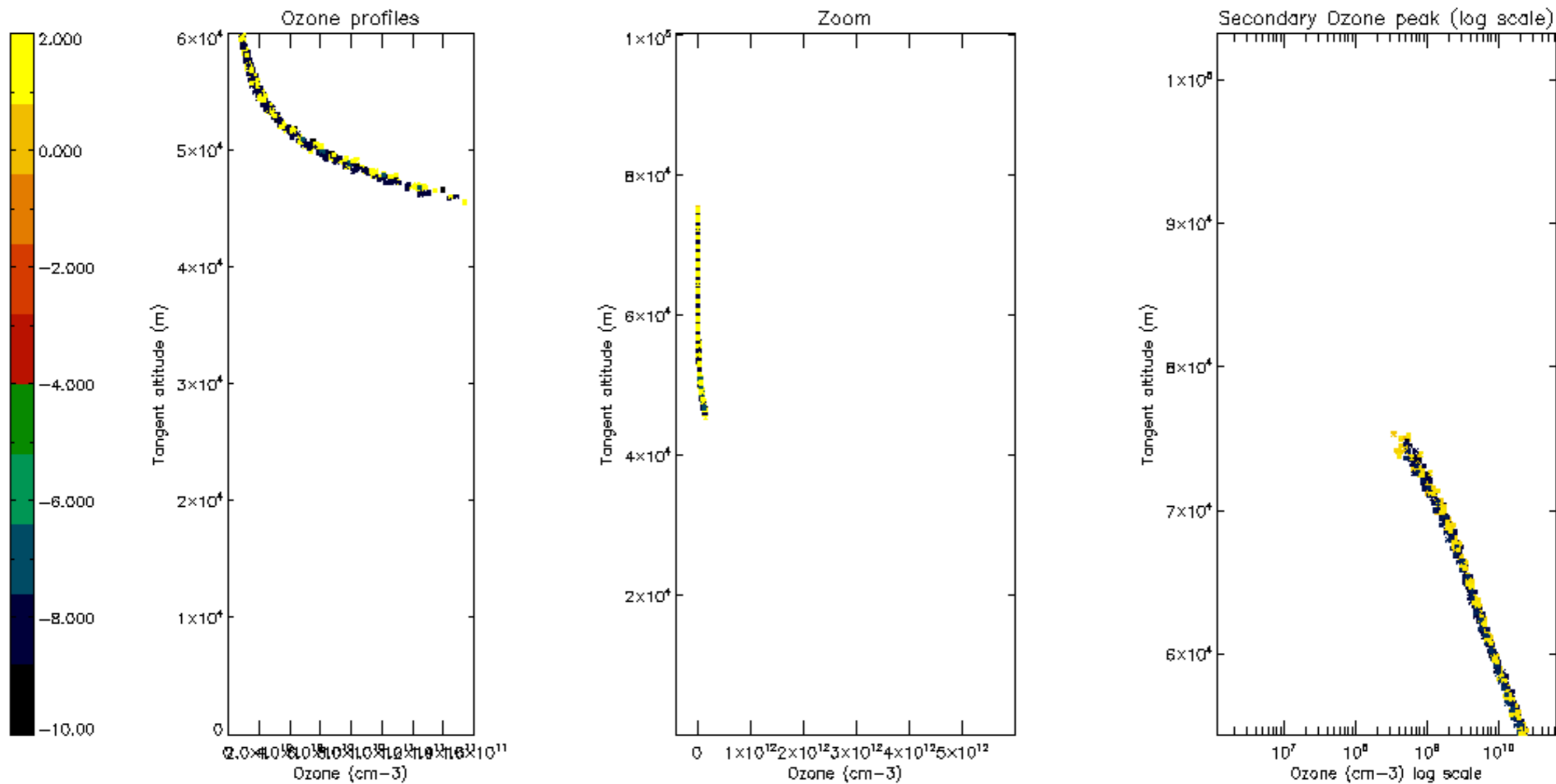


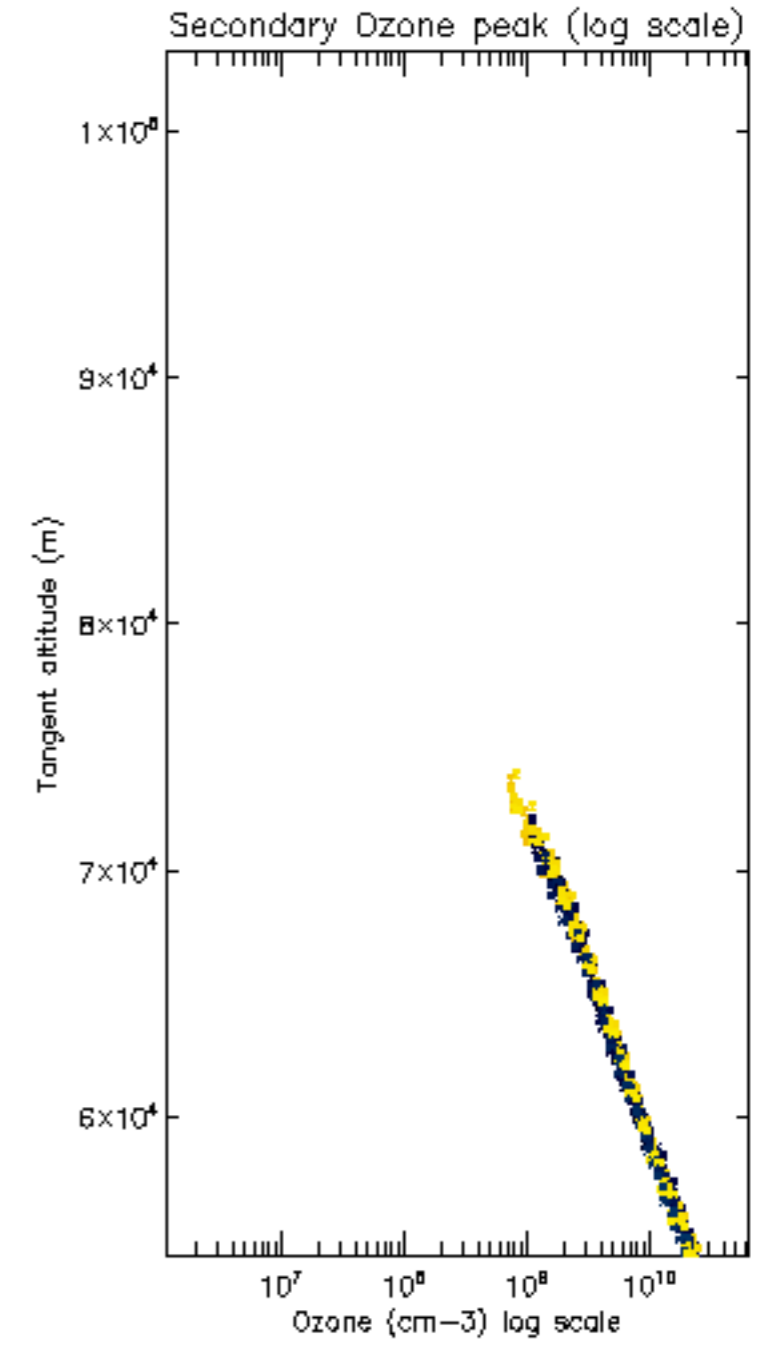
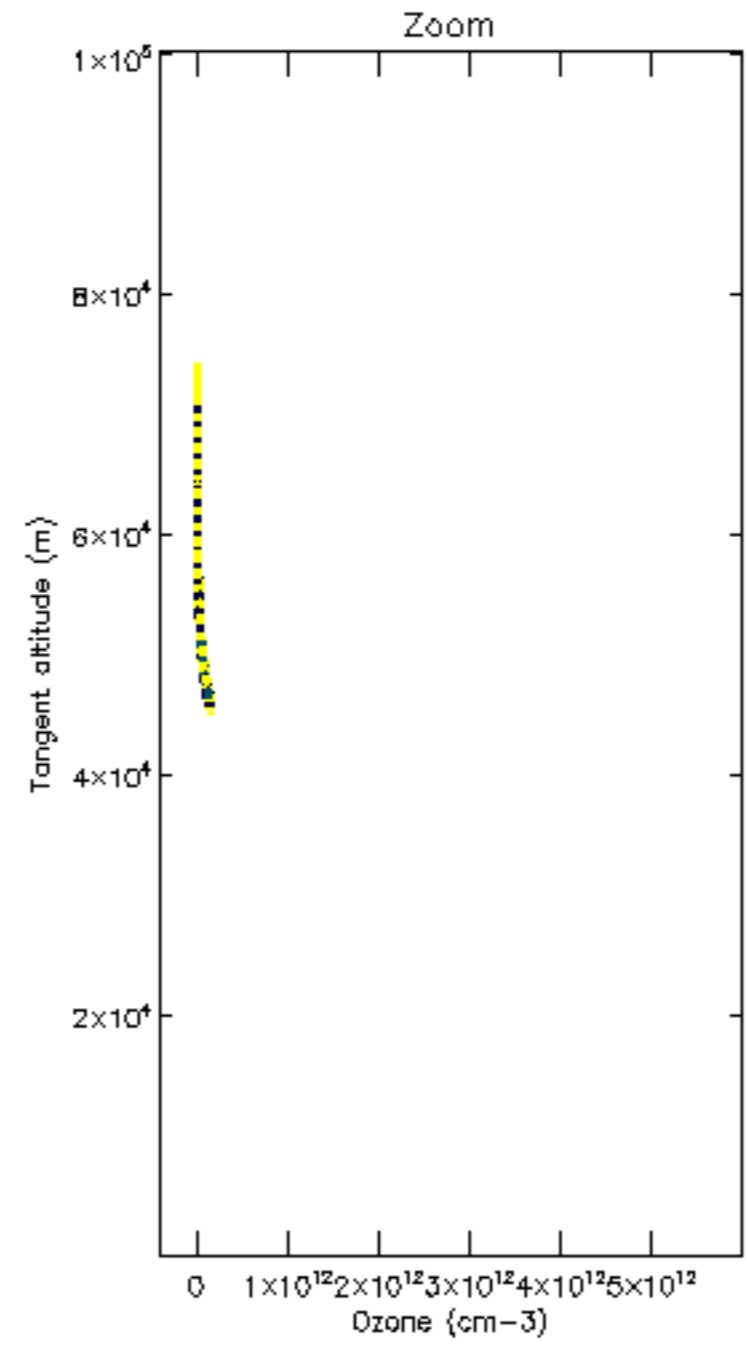
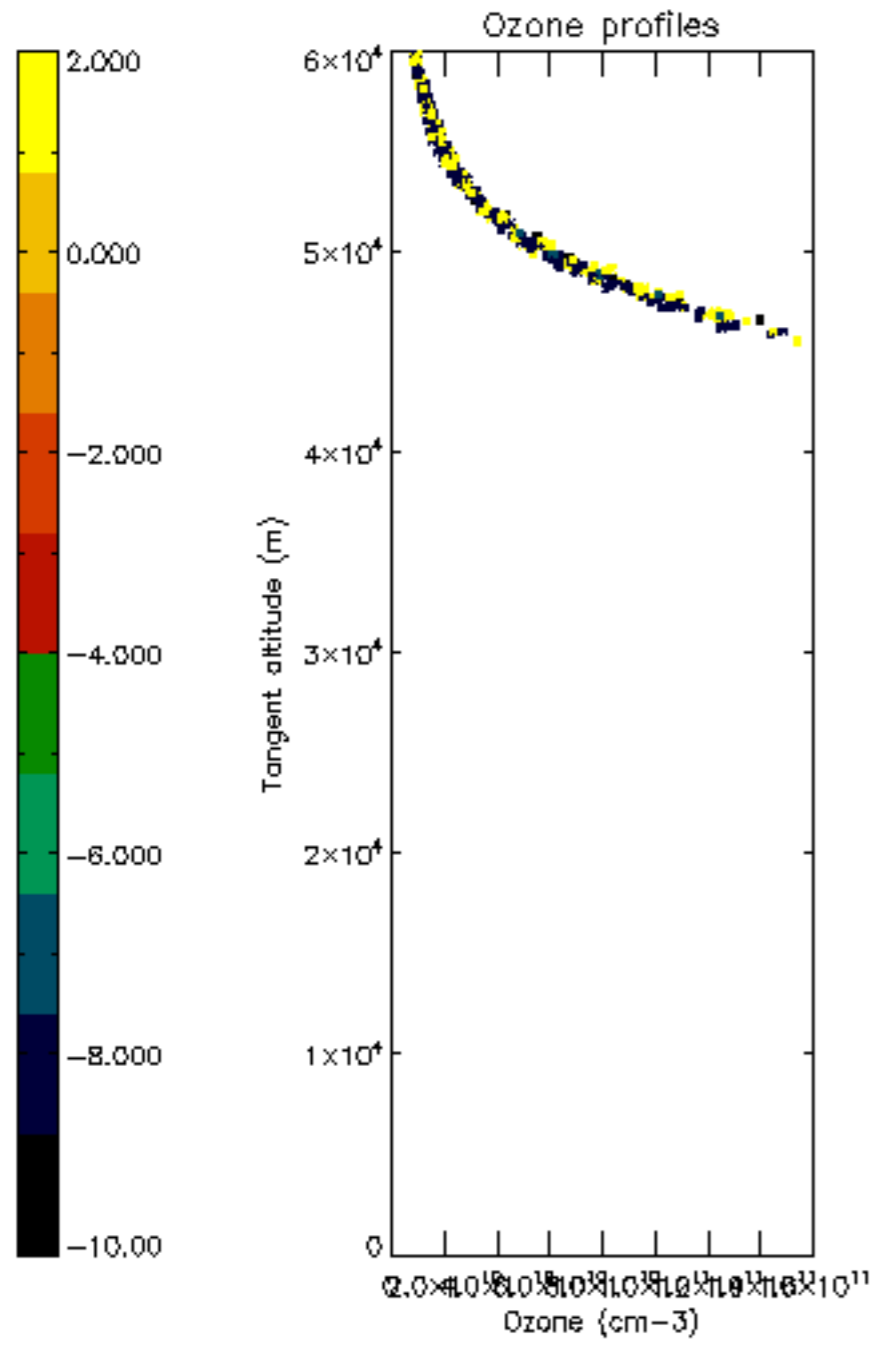
Percentage of saturation errors per profile

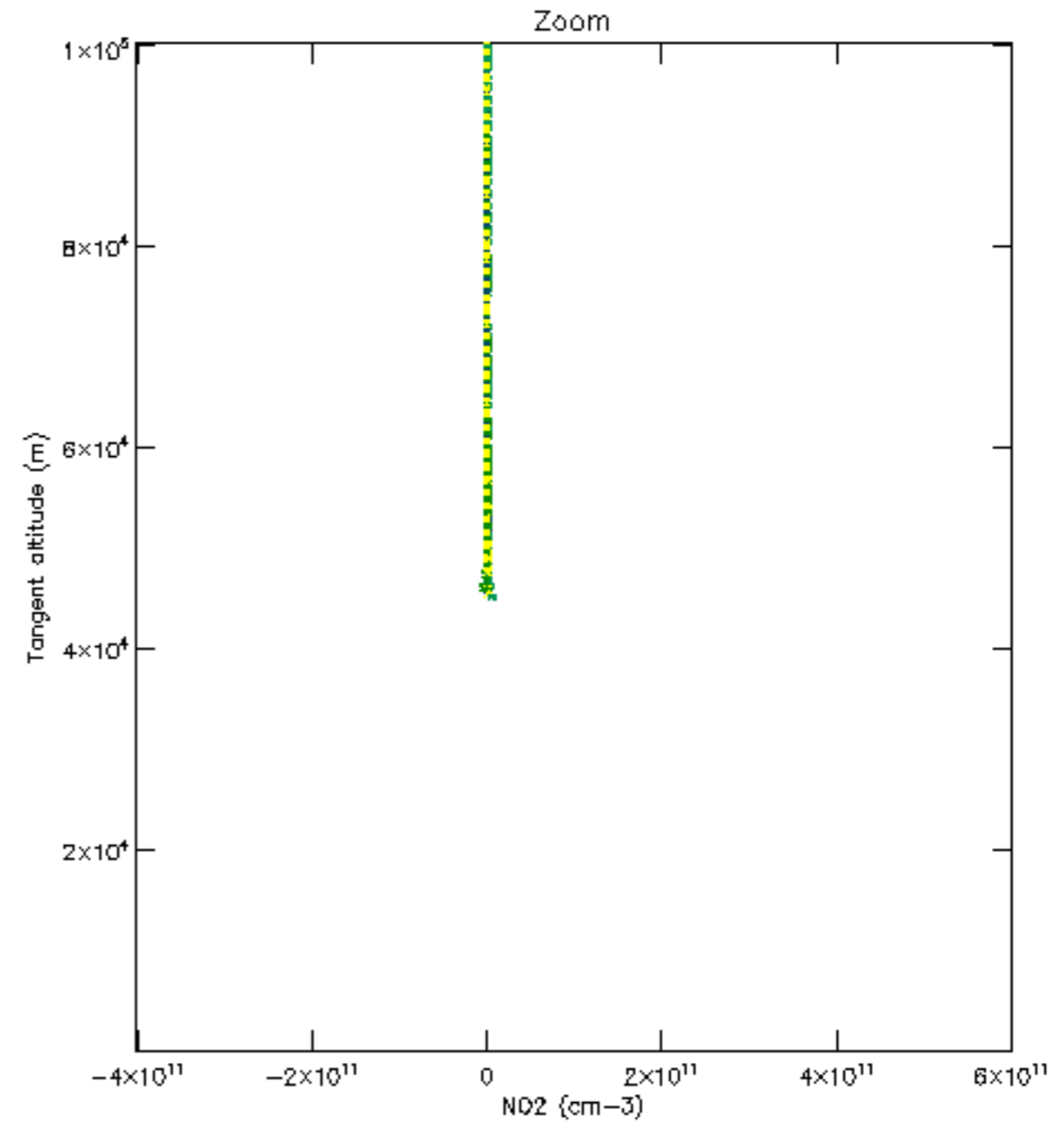
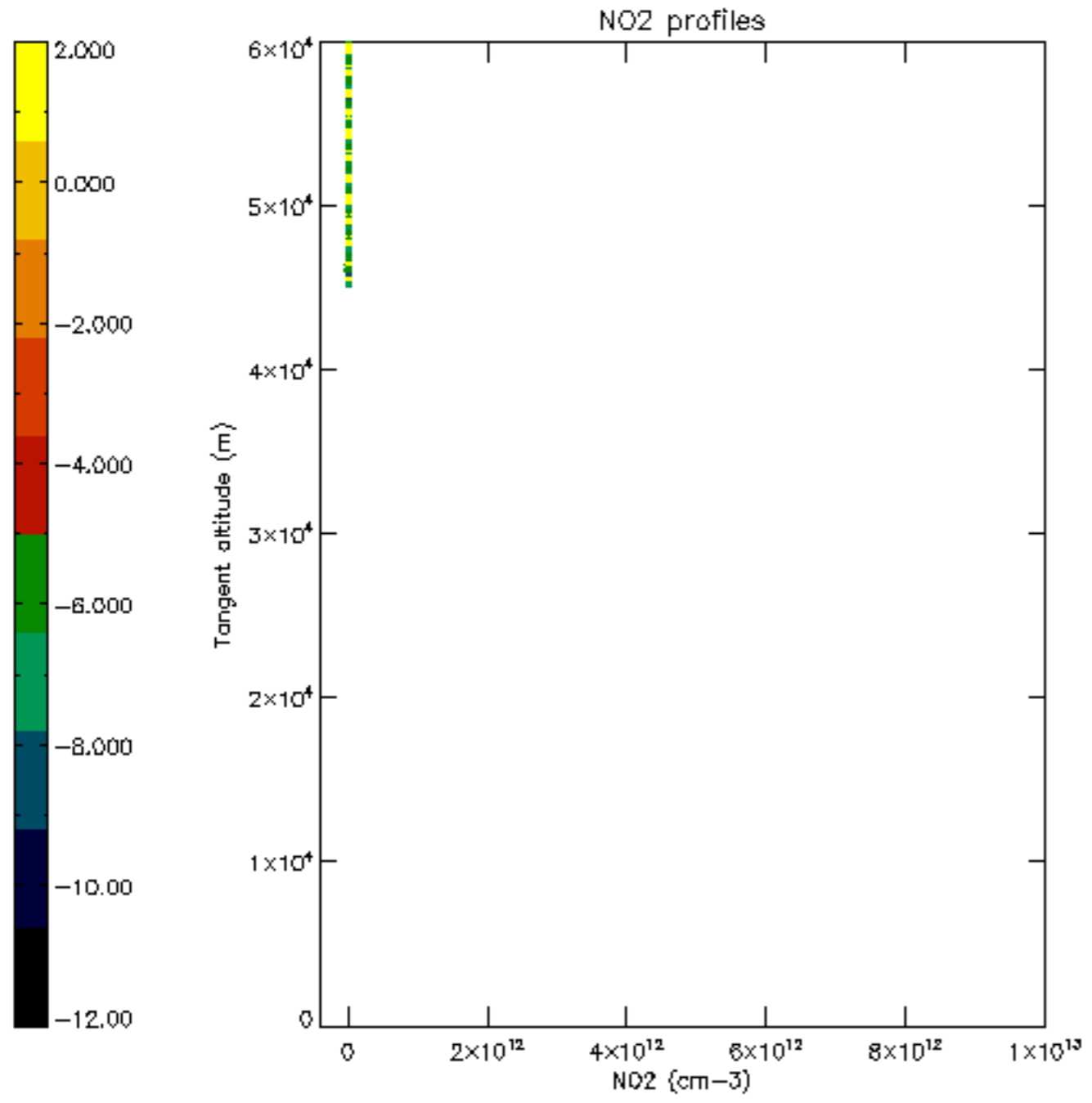


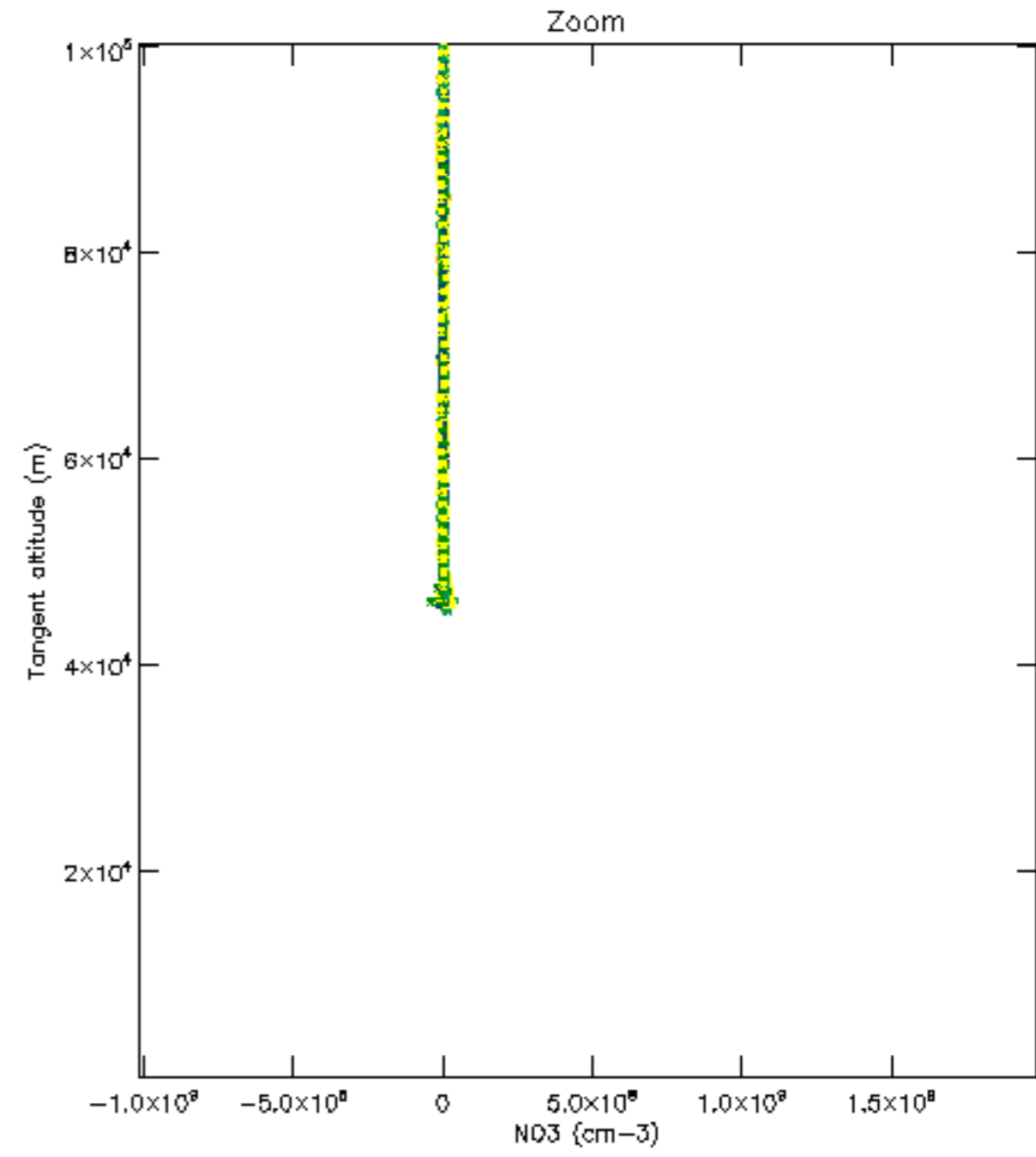
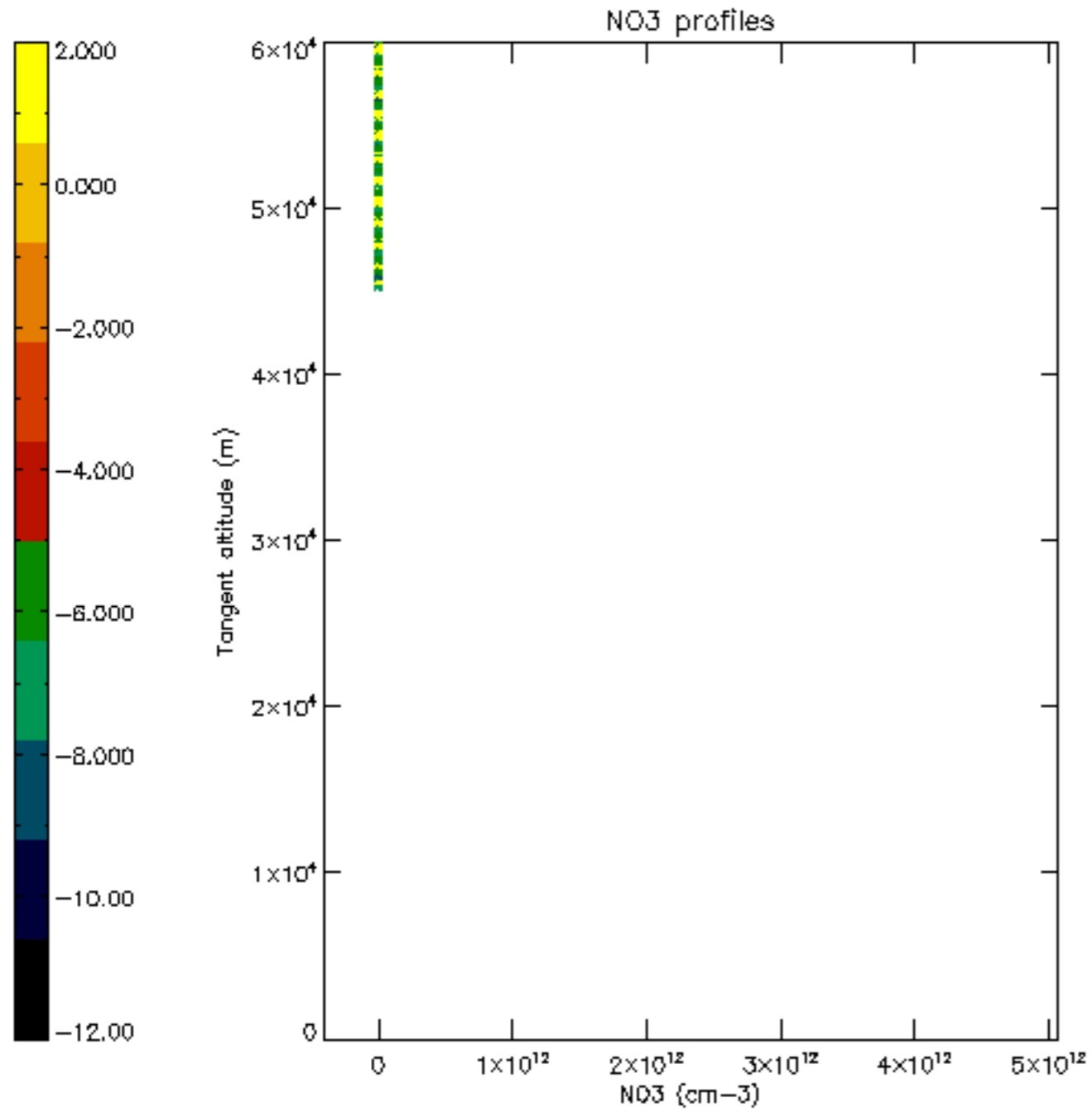


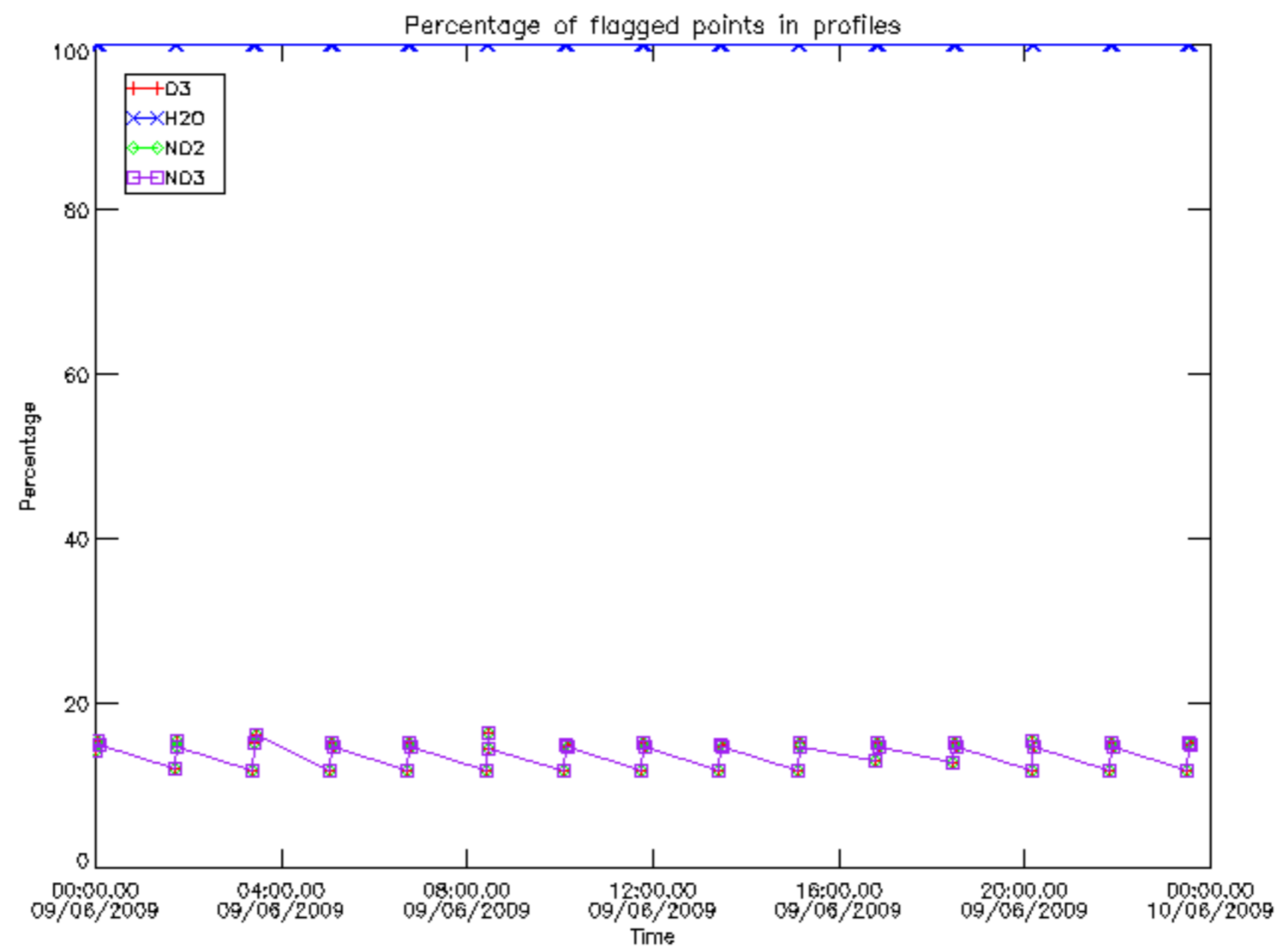




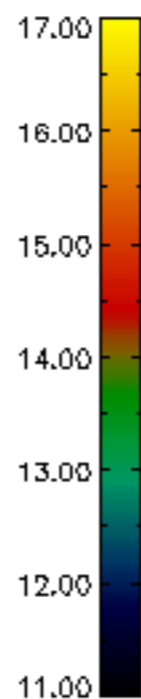
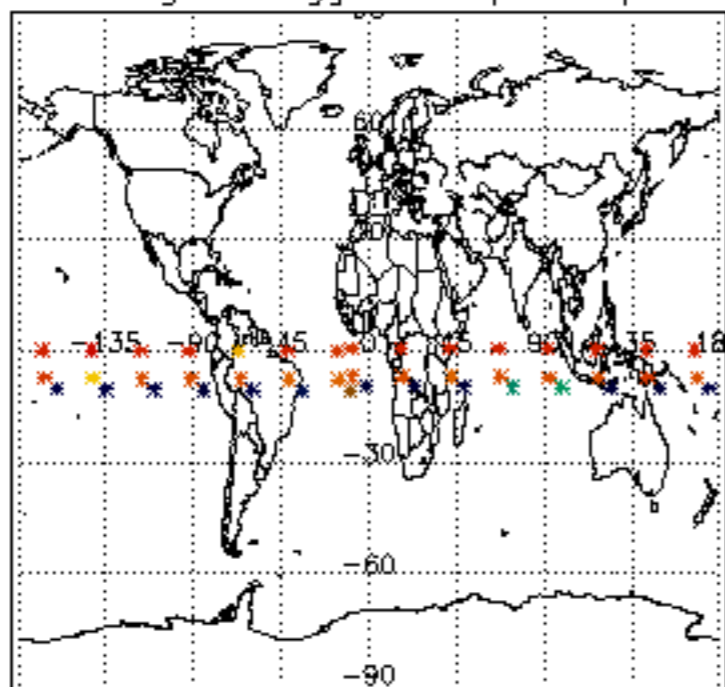




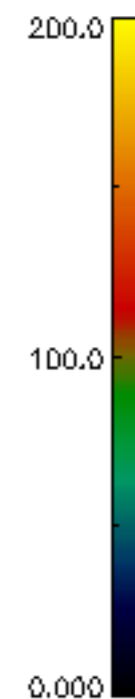
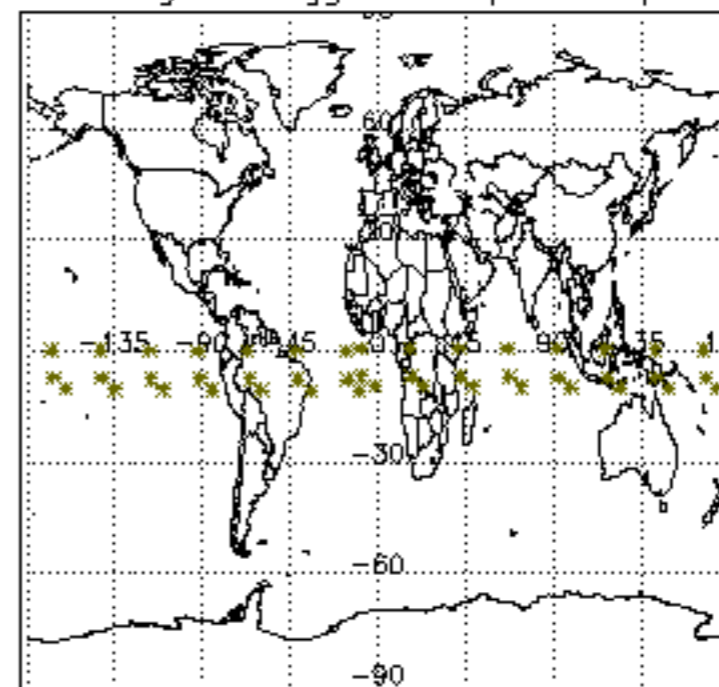




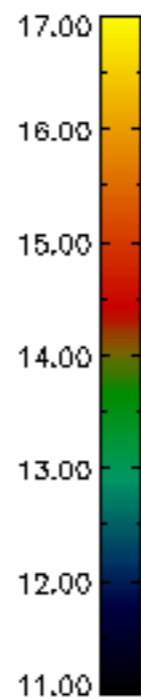
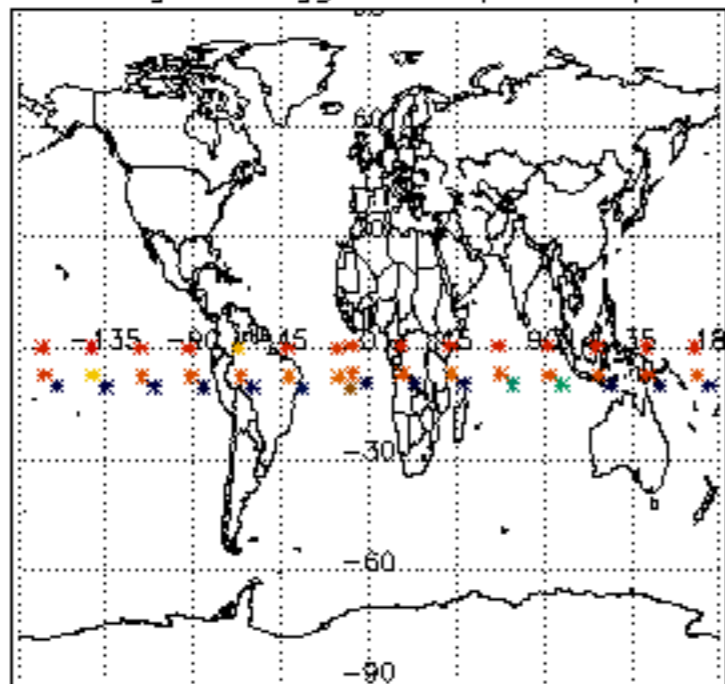
Percentage of flagged data per D3 profile



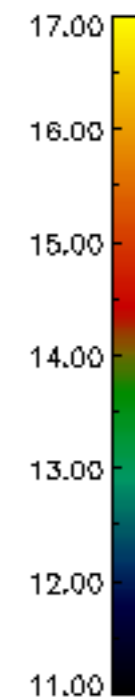
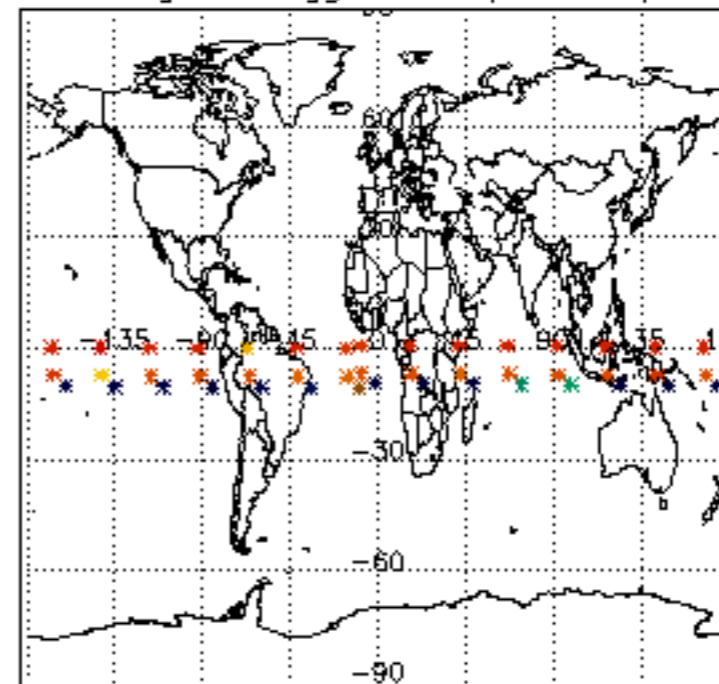
Percentage of flagged data per H2O profile

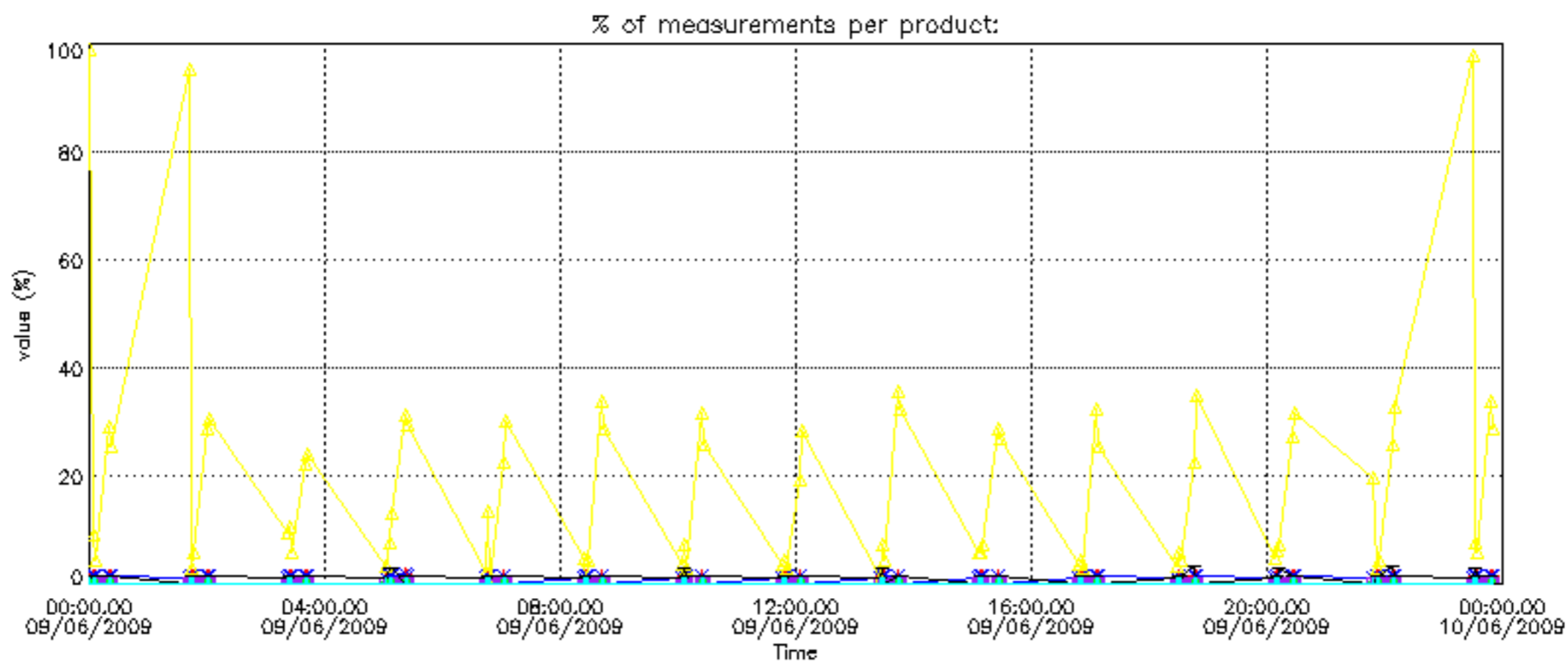
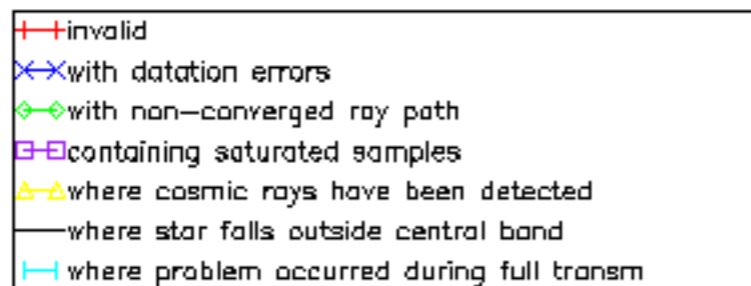


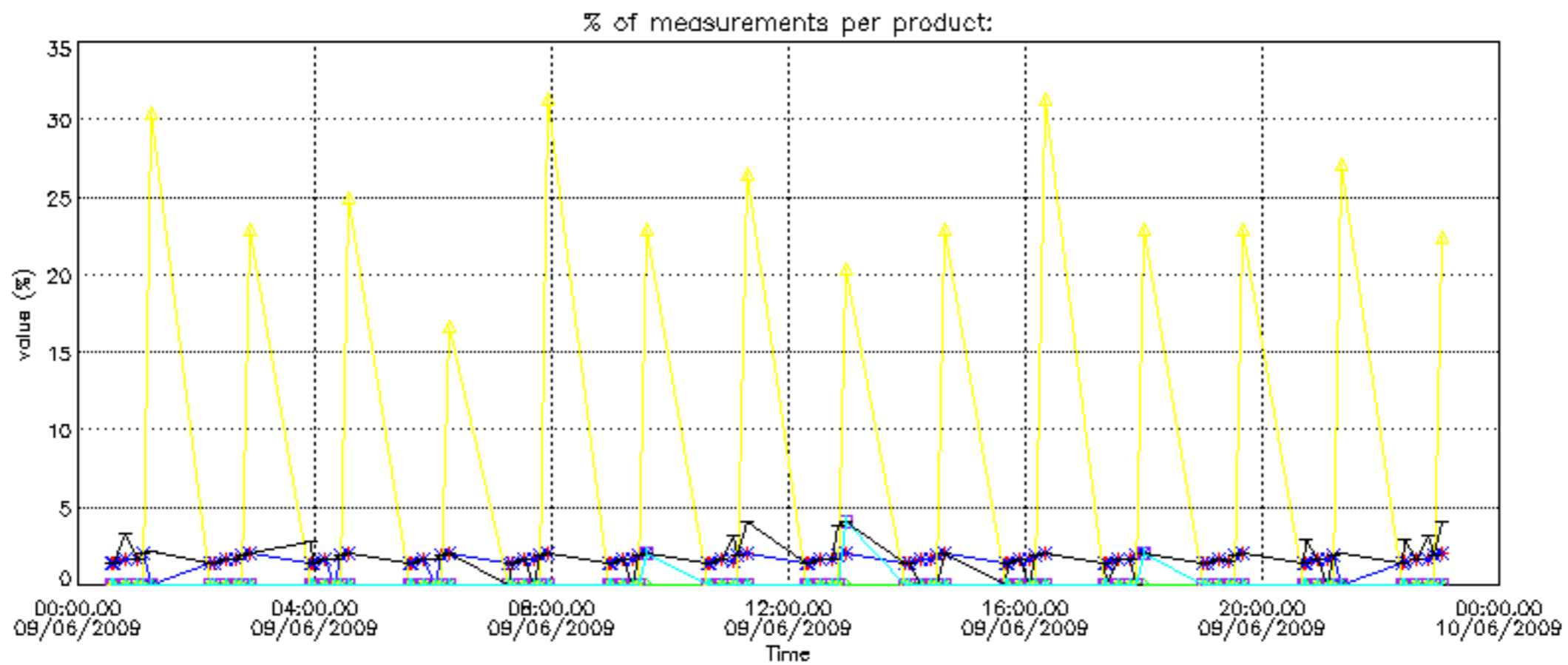
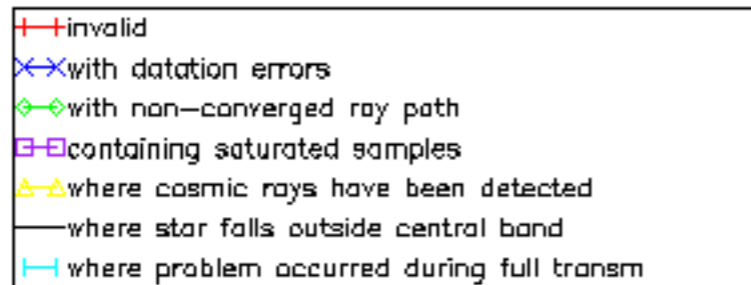
Percentage of flagged data per NO2 profile



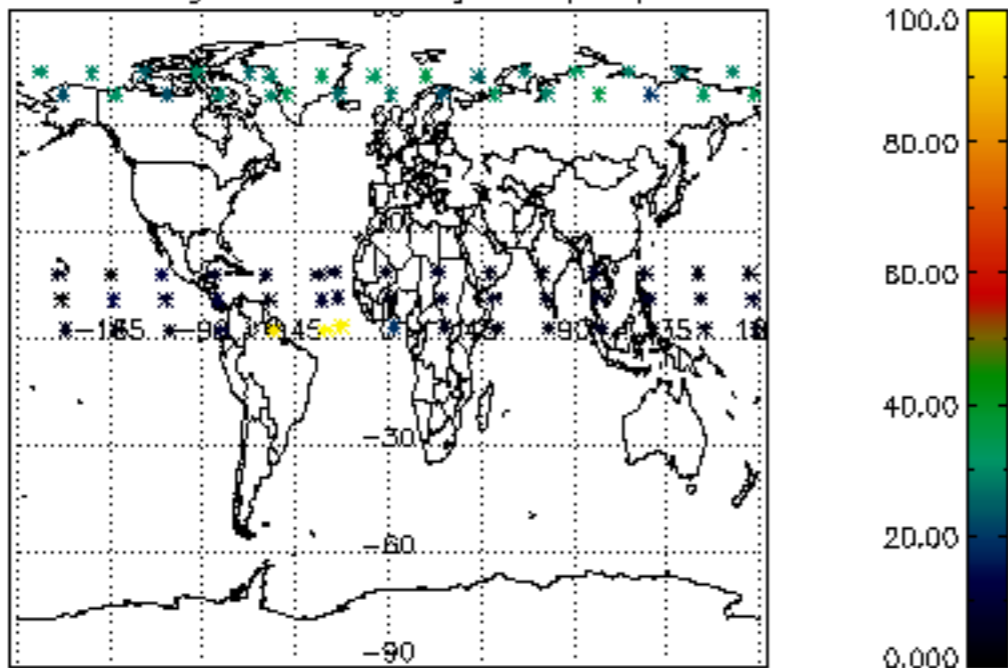
Percentage of flagged data per NO3 profile



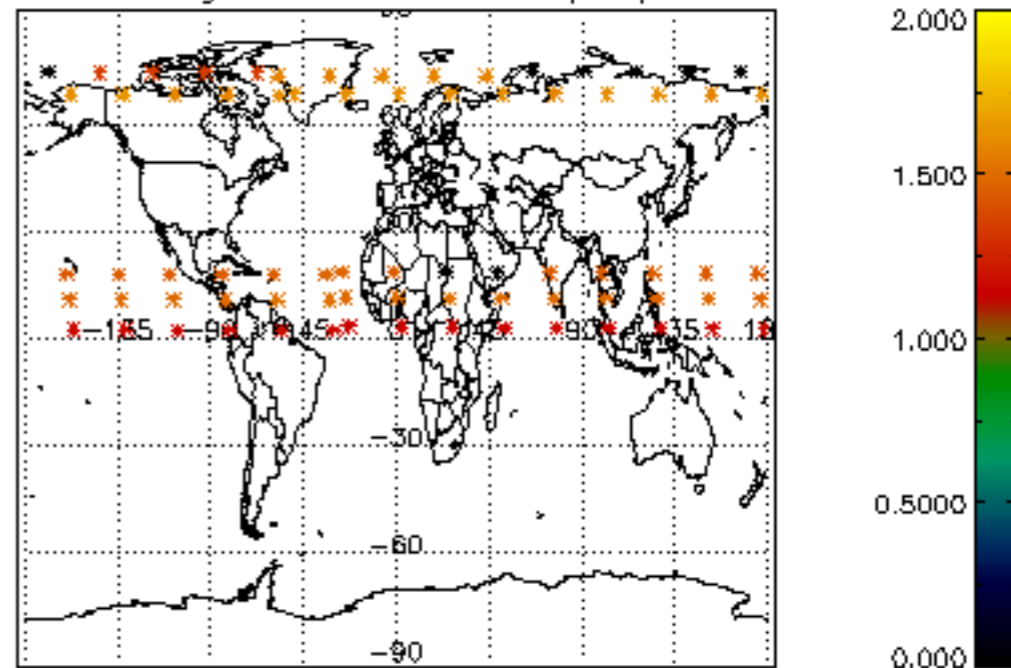




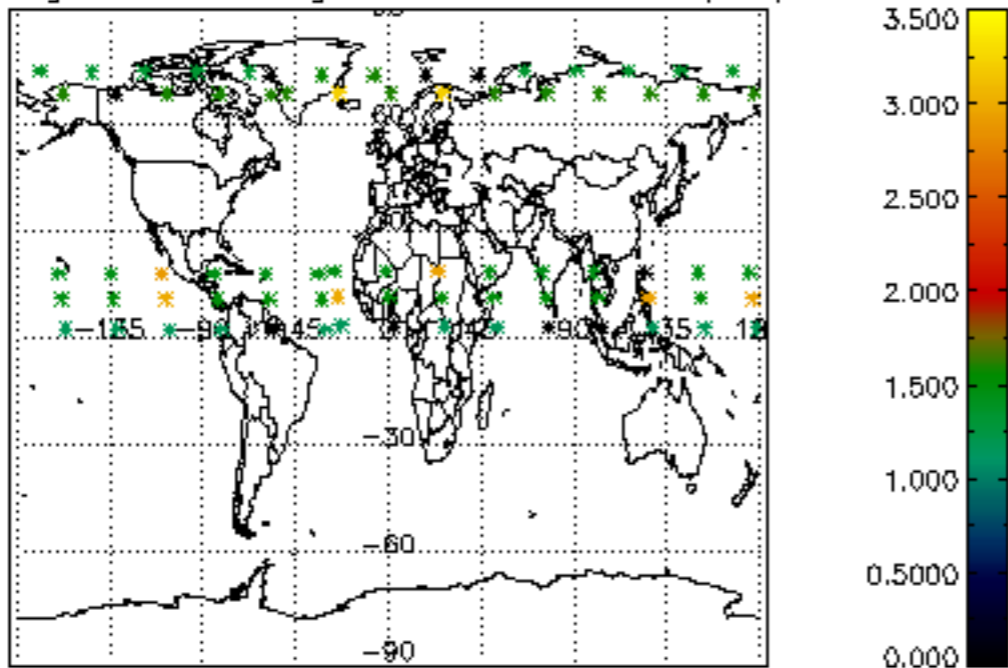
Percentage of cosmic ray hits per profile



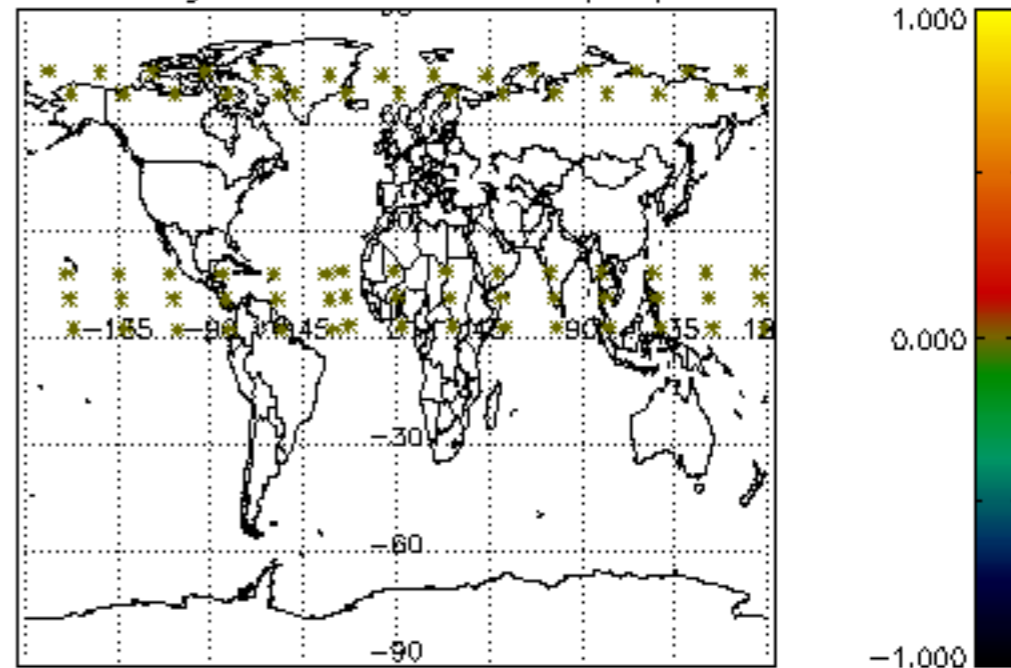
Percentage of datation errors per profile



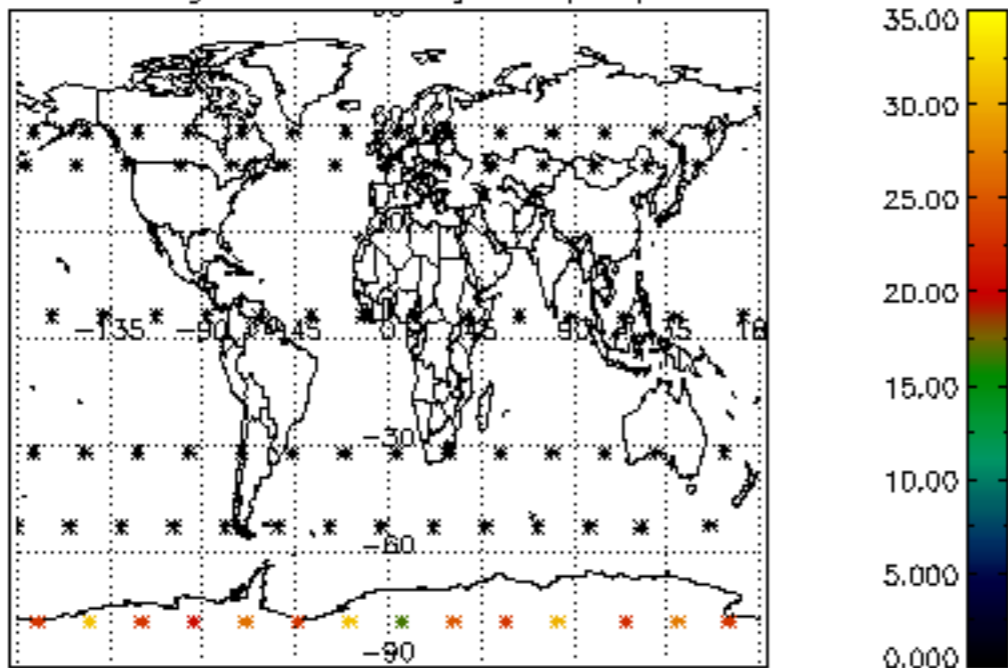
Percentage of star falling outside central band per profile



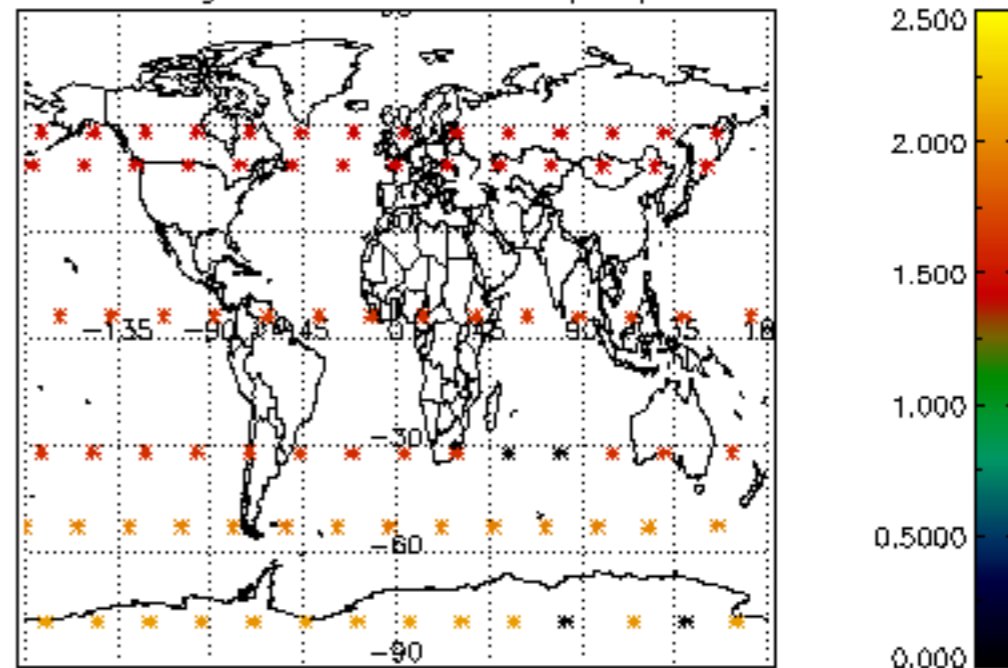
Percentage of saturation errors per profile



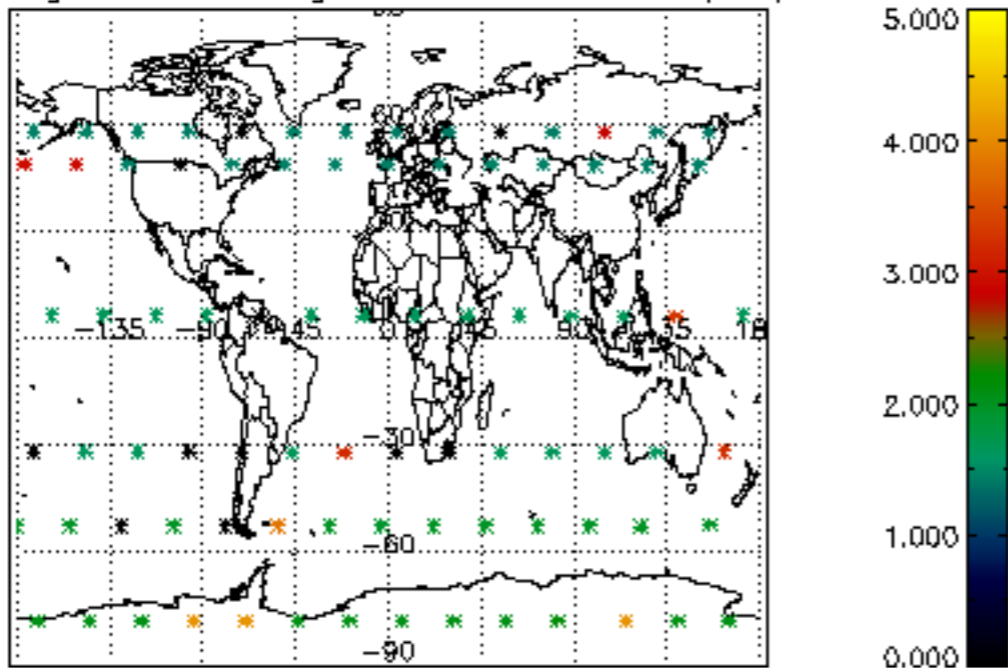
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

