

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.

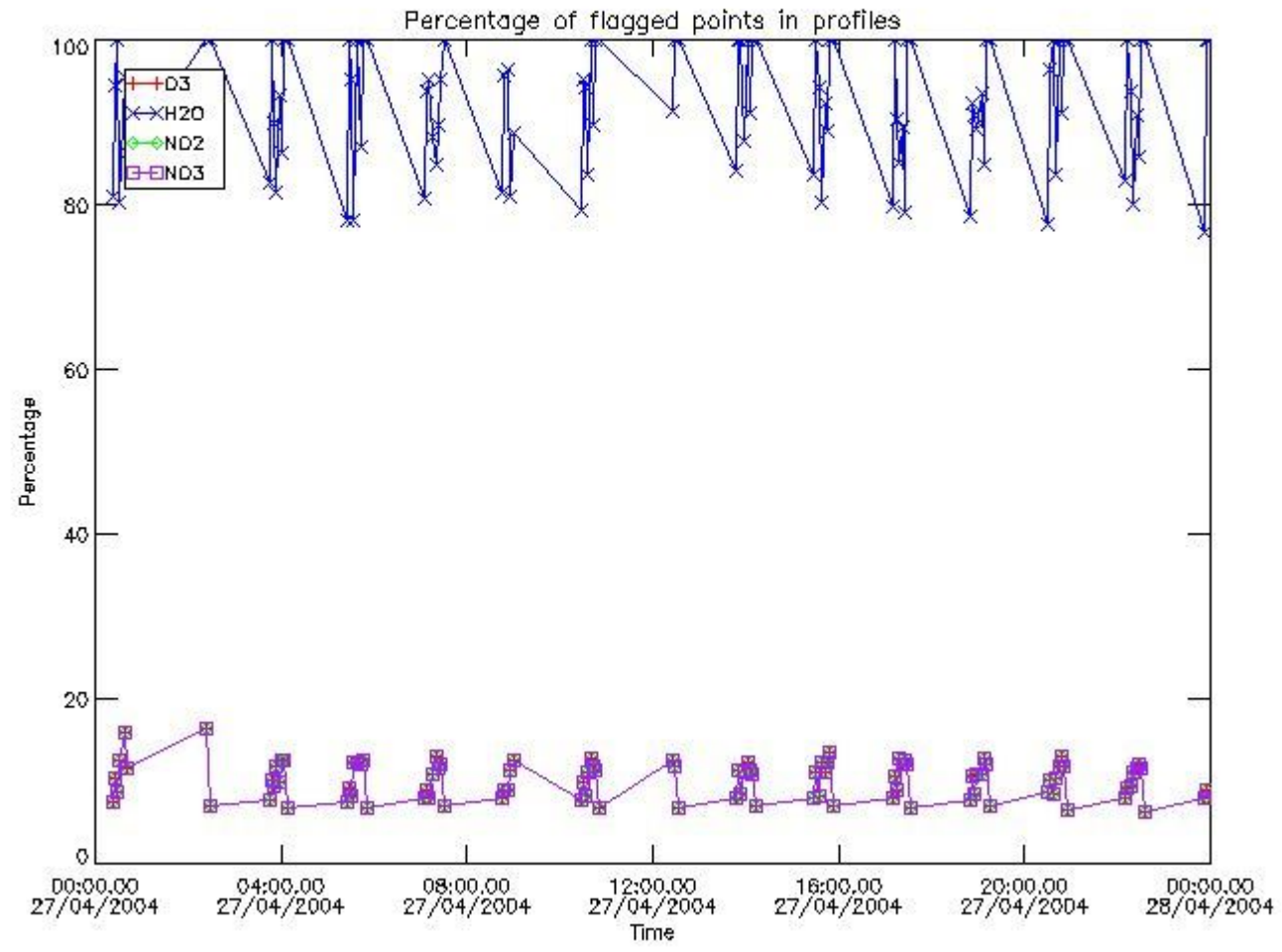
Item	Value
Time of report generation	19APR2013 00:45:57
Data source version	GOMOS/6.01
Start time of products	27-04-2004 (27APR2004 00:00:00)
Stop time of products	28-04-2004 (28APR2004 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	391
Nb of prods with errors	1

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__2PRFIN20040427_000358_000000452026_00202_11278_1952.N1	27-APR-2004 00:03:58	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	11278	No
2	GOM_NL__2PRFIN20040427_000558_000000522026_00202_11278_1953.N1	27-APR-2004 00:05:58	Bright	52.000	74	11Bet Cas	2.2680	6600.0	104	11278	No
3	GOM_NL__2PRFIN20040427_000742_000001492026_00202_11278_1954.N1	27-APR-2004 00:07:42	Bright	148.50	5	3Alp Lyr	0.033000	11000.	297	11278	No
4	GOM_NL__2PRFIN20040427_001427_000000732026_00202_11278_1955.N1	27-APR-2004 00:14:27	Twilight	73.000	92	53Eps Cyg	2.5000	4500.0	146	11278	No
5	GOM_NL__2PRFIN20040427_001915_000000472026_00202_11278_1956.N1	27-APR-2004 00:19:15	Twilight	46.500	90	54Alp Peg	2.4870	11000.	93	11278	No
6	GOM_NL__2PRFIN20040427_002309_000000692026_00202_11278_1957.N1	27-APR-2004 00:23:09	Dark	69.000	61	8Eps Peg	2.1000	3900.0	138	11278	No
7	GOM_NL__2PRFIN20040427_002537_000000552026_00202_11278_1958.N1	27-APR-2004 00:25:37	Dark	54.500	162	34Alp Aqr	2.9440	5350.0	109	11278	No
8	GOM_NL__2PRFIN20040427_002859_000000592026_00202_11278_1959.N1	27-APR-2004 00:28:59	Dark	59.000	154	22Bet Aqr	2.8990	5700.0	118	11278	No
9	GOM_NL__2PRFIN20040427_003155_000000492026_00202_11278_1960.N1	27-APR-2004 00:31:55	Dark	48.500	18	24Alp PsA	1.1660	9700.0	97	11278	No
10	GOM_NL__2PRFIN20040427_003737_000000452026_00202_11278_1961.N1	27-APR-2004 00:37:37	Dark	45.000	31	Alp Gru	1.7340	15200.	90	11278	No
11	GOM_NL__2PRFIN20040427_004024_000000442026_00202_11278_1962.N1	27-APR-2004 00:40:24	Dark	43.500	148	Alp Tuc	2.8780	4100.0	87	11278	No
12	GOM_NL__2PRFIN20040427_022337_000000442026_00204_11280_1722.N1	27-APR-2004 02:23:37	Dark	43.500	45	Alp Pav	1.9400	26000.	87	11280	No
13	GOM_NL__2PRFIN20040427_022836_000000742026_00204_11280_1723.N1	27-APR-2004 02:28:36	Dark	73.500	103	38Zet Sgr	2.6000	9700.0	147	11280	No
14	GOM_NL__2PRFIN20040427_023112_000000462026_00204_11280_1724.N1	27-APR-2004 02:31:12	Straylight	45.500	141	Bet Ara	2.8400	4600.0	91	11280	No
15	GOM_NL__2PRFIN20040427_023249_000000562026_00204_11280_1725.N1	27-APR-2004 02:32:49	Straylight	56.000	40	The Sco	1.8590	7100.0	112	11280	No
16	GOM_NL__2PRFIN20040427_023447_000000532026_00204_11280_1726.N1	27-APR-2004 02:34:47	Straylight	53.000	4	Alp1Cen	-0.010000	5800.0	106	11280	No
17	GOM_NL__2PRFIN20040427_023629_000000412026_00204_11280_1727.N1	27-APR-2004 02:36:29	Straylight	41.000	20	Bet Cru	1.2530	30000.	82	11280	No
18	GOM_NL__2PRFIN20040427_023928_000000412026_00204_11280_1728.N1	27-APR-2004 02:39:28	Straylight	40.500	64	Gam Cen	2.2000	10600.	81	11280	No
19	GOM_NL__2PRFIN20040427_024147_000000772026_00204_11280_1729.N1	27-APR-2004 02:41:47	Twilight	76.500	16	21Alp Sco	1.0200	3000.0	153	11280	No
20	GOM_NL__2PRFIN20040427_024413_000000662026_00204_11280_1730.N1	27-APR-2004 02:44:13	Twilight	65.500	80	7Del Sco	2.3160	30000.	131	11280	No
21	GOM_NL__2PRFIN20040427_024610_000000452026_00204_11280_1731.N1	27-APR-2004 02:46:10	Bright	45.000	169	46Gam Hya	2.9910	4700.0	90	11280	No
22	GOM_NL__2PRFIN20040427_025237_000000392026_00204_11280_1732.N1	27-APR-2004 02:52:37	Bright	39.000	121	29Gam Vir	2.7400	7200.0	78	11280	No
23	GOM_NL__2PRFIN20040427_025601_000000392026_00204_11280_1733.N1	27-APR-2004 02:56:01	Bright	39.000	138	47Eps Vir	2.8280	4700.0	78	11280	No
24	GOM_NL__2PRFIN20040427_025738_000000382026_00204_11280_1734.N1	27-APR-2004 02:57:38	Bright	37.500	62	94Bet Leo	2.1360	9700.0	75	11280	No
25	GOM_NL__2PRFIN20040427_025910_000000472026_00204_11280_1735.N1	27-APR-2004 02:59:10	Bright	46.500	3	16Alp Boo	-0.050000	4250.0	93	11280	No
26	GOM_NL__2PRFIN20040427_030351_000000382026_00204_11280_1736.N1	27-APR-2004 03:03:51	Bright	37.500	152	12Alp2CVn	2.8900	11000.	75	11280	No
27	GOM_NL__2PRFIN20040427_030531_000000432026_00204_11280_1737.N1	27-APR-2004 03:05:31	Bright	43.000	180	27Gam Boo	3.0400	8000.0	86	11280	No
28	GOM_NL__2PRFIN20040427_030732_000000392026_00204_11280_1738.N1	27-APR-2004 03:07:32	Bright	39.000	39	85Eta UMa	1.8540	24000.	78	11280	No
29	GOM_NL__2PRFIN20040427_030929_000000422026_00204_11280_1739.N1	27-APR-2004 03:09:29	Bright	42.000	82	48Bet UMa	2.3650	10600.	84	11280	No
30	GOM_NL__2PRFIN20040427_031053_000000392026_00204_11280_1740.N1	27-APR-2004 03:10:53	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	11280	No
31	GOM_NL__2PRFIN20040427_031459_000000392026_00204_11280_1741.N1	27-APR-2004 03:14:59	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	11280	No
32	GOM_NL__2PRFIN20040427_031832_000000392026_00204_11280_1742.N1	27-APR-2004 03:18:32	Bright	39.000	49	1Alp UMi	1.9900	6300.0	78	11280	No
33	GOM_NL__2PRFIN20040427_032020_000000642026_00204_11280_1743.N1	27-APR-2004 03:20:20	Bright	64.000	69	33Gam Dra	2.2310	3800.0	128	11280	No
34	GOM_NL__2PRFIN20040427_032511_000000442026_00204_11280_1744.N1	27-APR-2004 03:25:11	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	11280	No
35	GOM_NL__2PRFIN20040427_032850_000001592026_00204_11280_1745.N1	27-APR-2004 03:28:50	Bright	159.00	5	3Alp Lyr	0.033000	11000.	318	11280	No
36	GOM_NL__2PRFIN20040427_033539_000000772026_00204_11280_1746.N1	27-APR-2004 03:35:39	Twilight	76.500	92	53Eps Cyg	2.5000	4500.0	153	11280	No
37	GOM_NL__2PRFIN20040427_034027_000000462026_00204_11280_1747.N1	27-APR-2004 03:40:27	Twilight	45.500	90	54Alp Peg	2.4870	11000.	91	11280	No
38	GOM_NL__2PRFIN20040427_034420_000000672026_00204_11280_1748.N1	27-APR-2004 03:44:20	Dark	66.500	61	8Eps Peg	2.1000	3900.0	133	11280	No
39	GOM_NL__2PRFIN20040427_034649_000000552026_00204_11280_1749.N1	27-APR-2004 03:46:49	Dark	55.000	162	34Alp Aqr	2.9440	5350.0	110	11280	No
40	GOM_NL__2PRFIN20040427_035013_000000602026_00204_11280_1750.N1	27-APR-2004 03:50:13	Dark	59.500	154	22Bet Aqr	2.8990	5700.0	119	11280	No
41	GOM_NL__2PRFIN20040427_035308_000000442026_00204_11280_1751.N1	27-APR-2004 03:53:08	Dark	43.500	18	24Alp PsA	1.1660	9700.0	87	11280	No
42	GOM_NL__2PRFIN20040427_035851_000000522026_00204_11280_1752.N1	27-APR-2004 03:58:51	Dark	51.500	31	Alp Gru	1.7340	15200.	103	11280	No

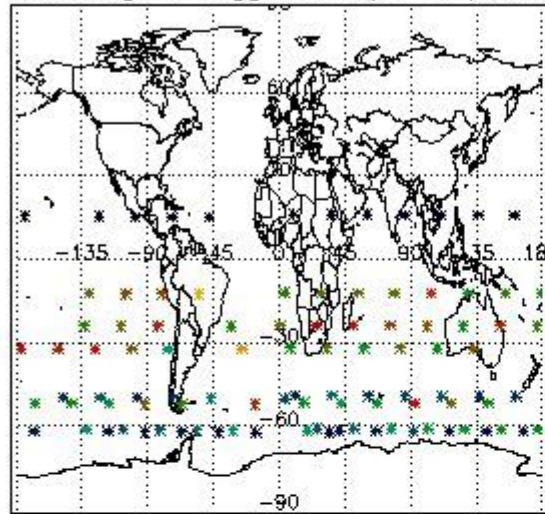
the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

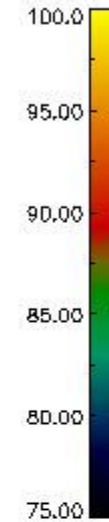
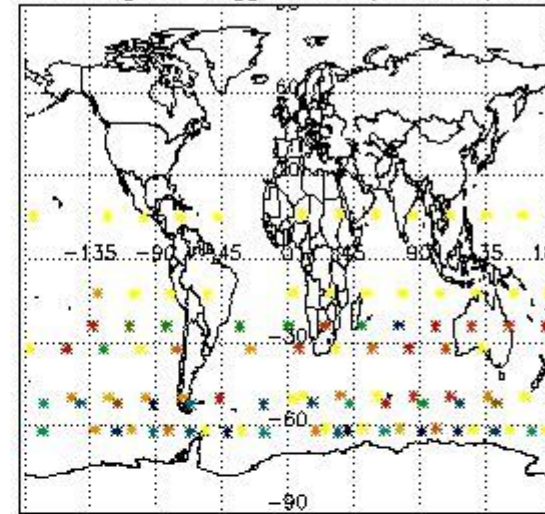


3.2 Plot quality information per product (world map)

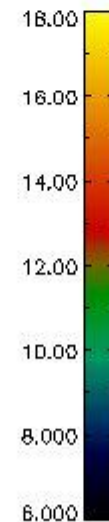
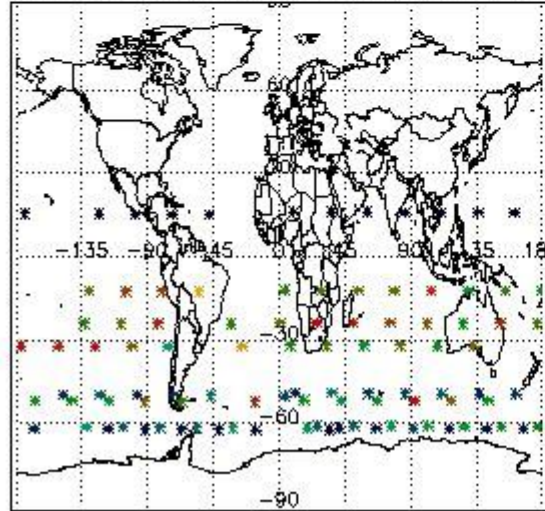
Percentage of flagged data per O3 profile



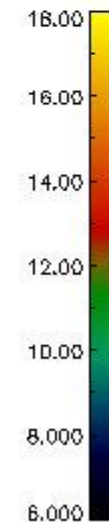
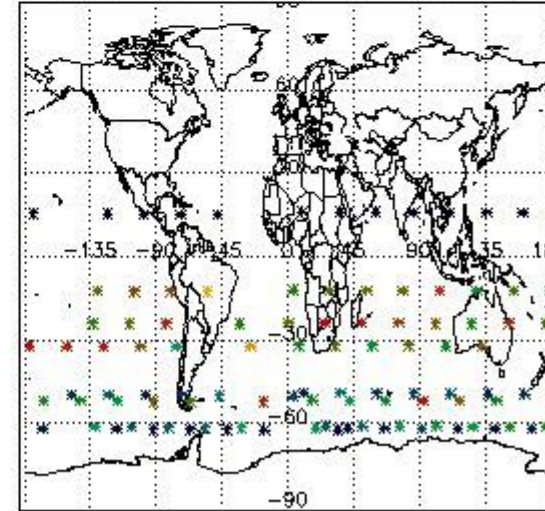
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

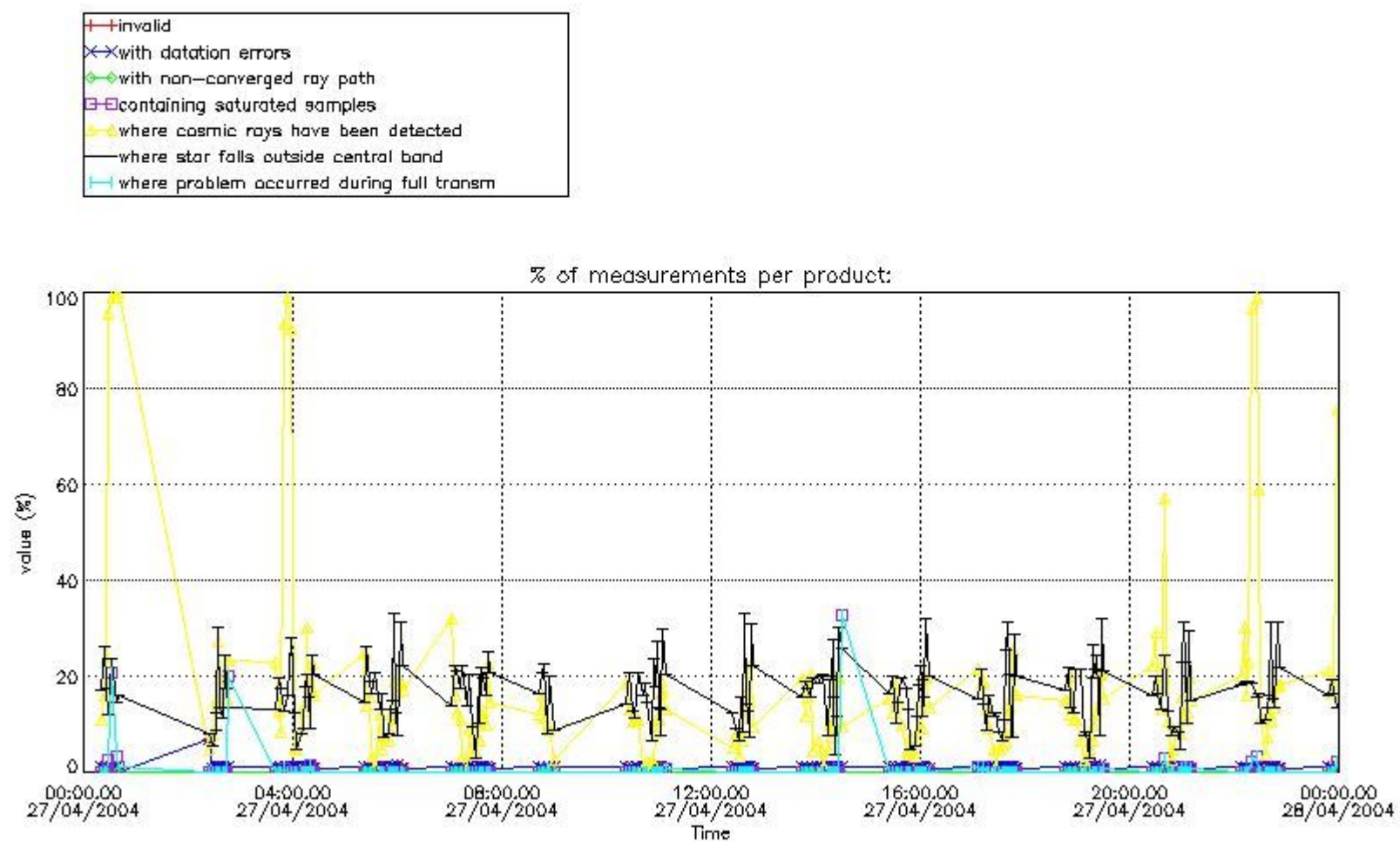


4. Level 1 quality information per product

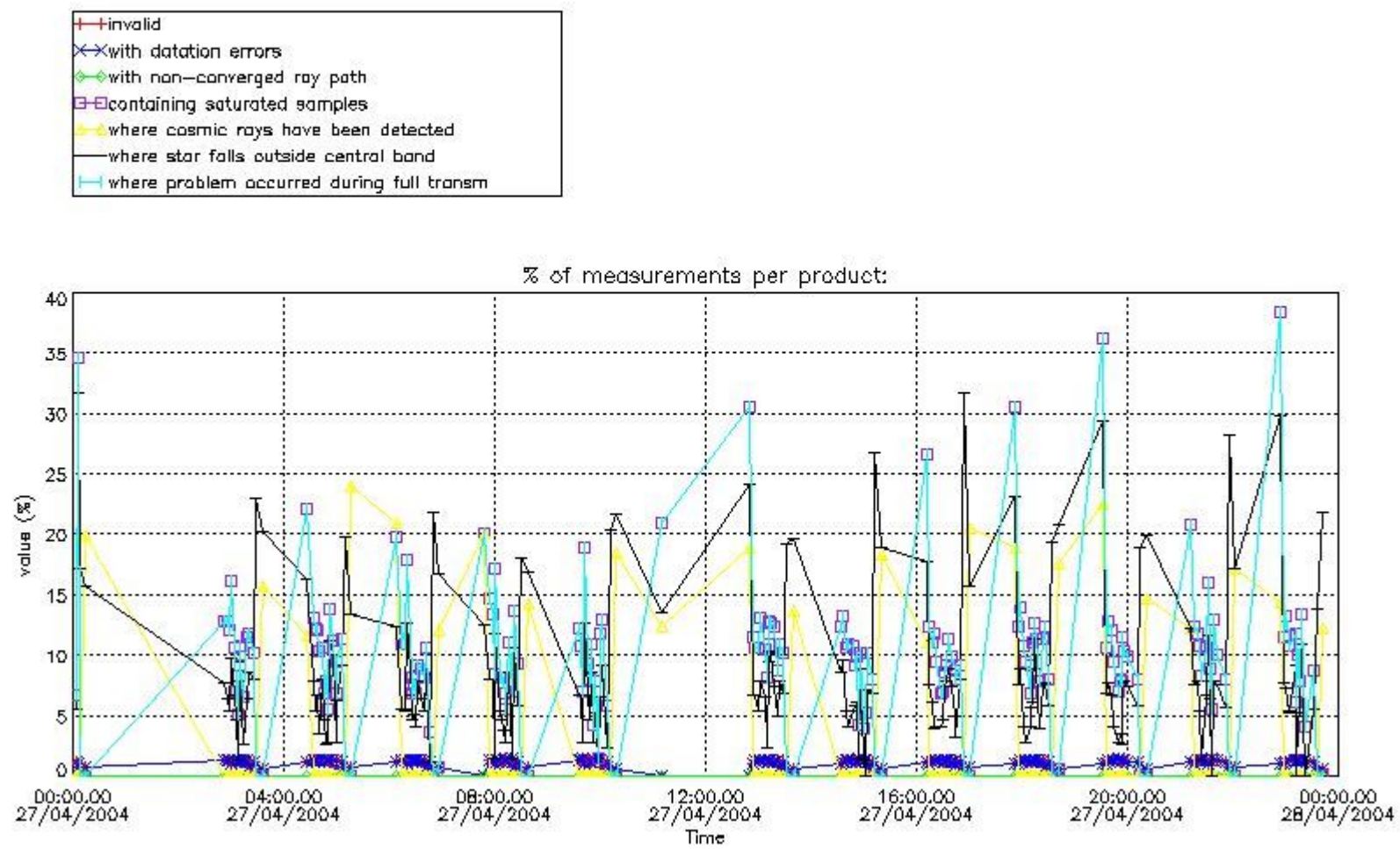
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



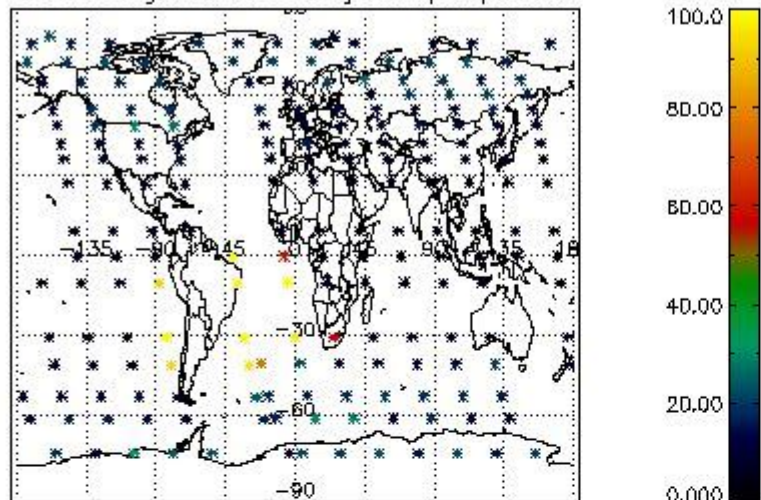
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



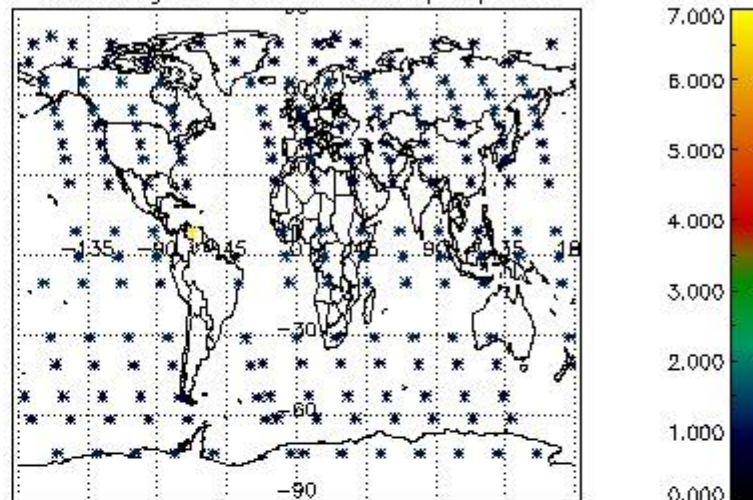
4.2 Plot quality information per product coming from level 1b processing (world map)

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

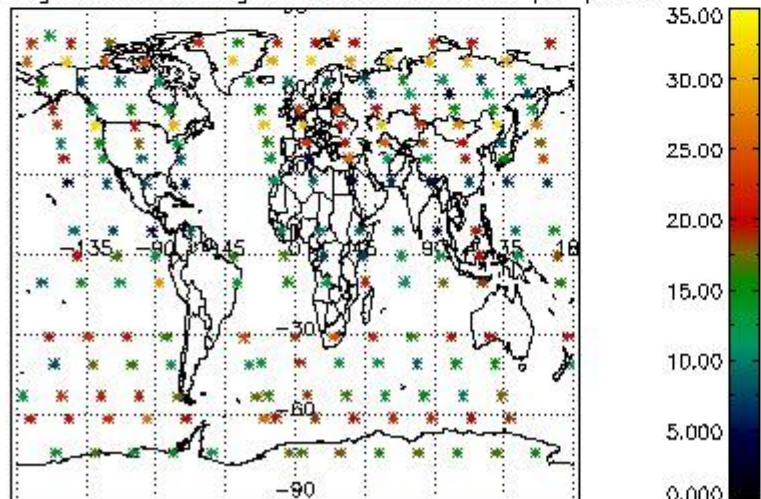
Percentage of cosmic ray hits per profile



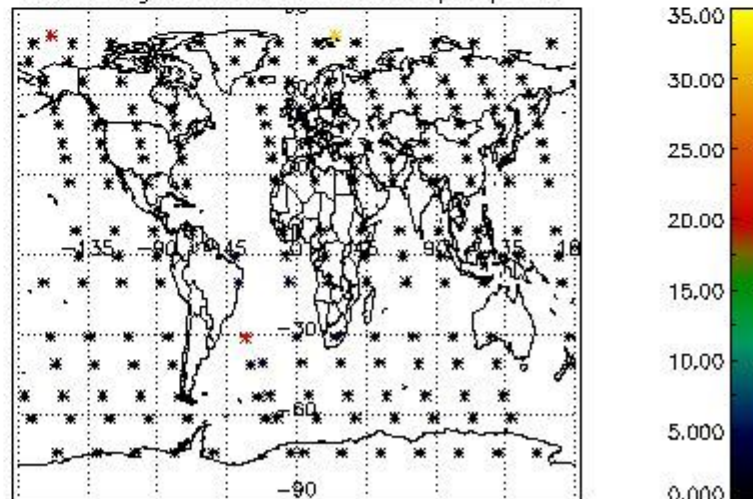
Percentage of datation errors per profile



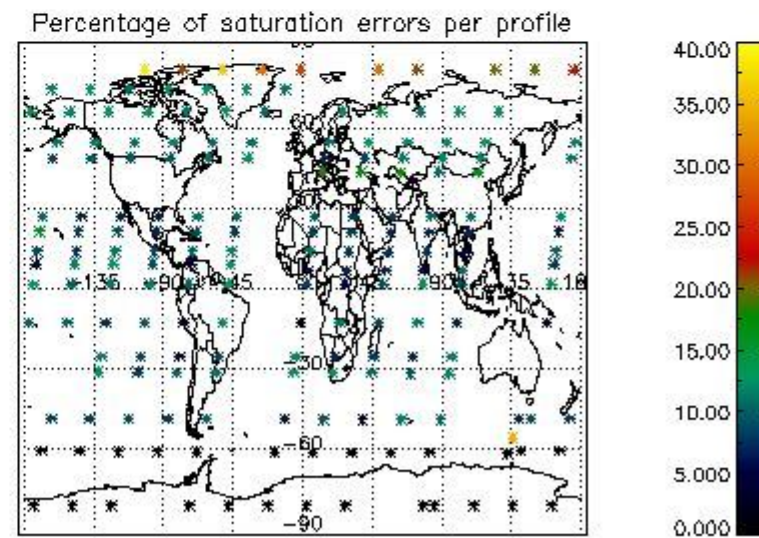
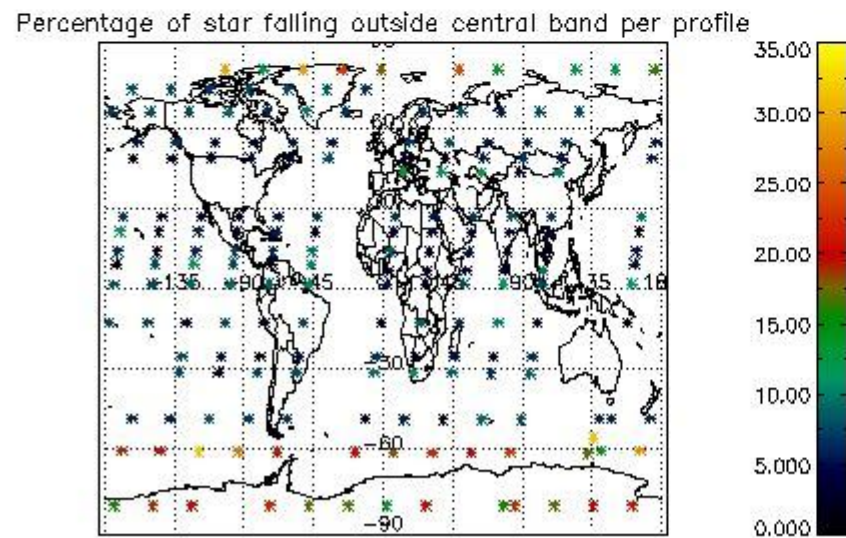
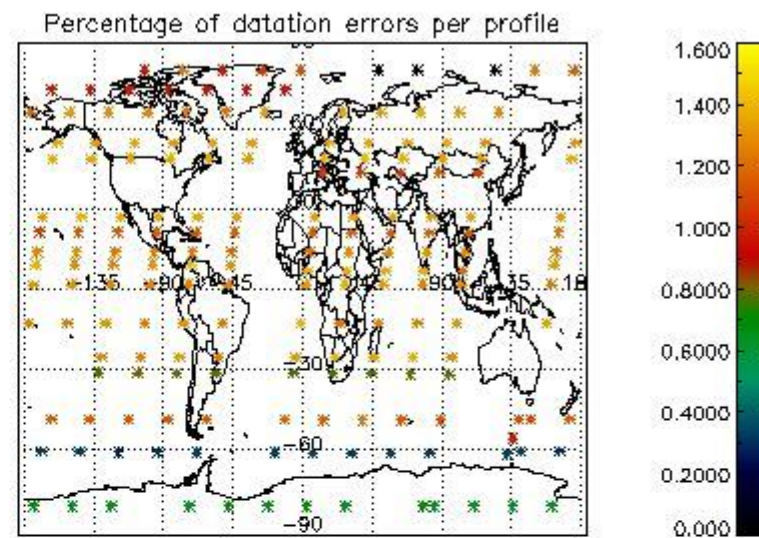
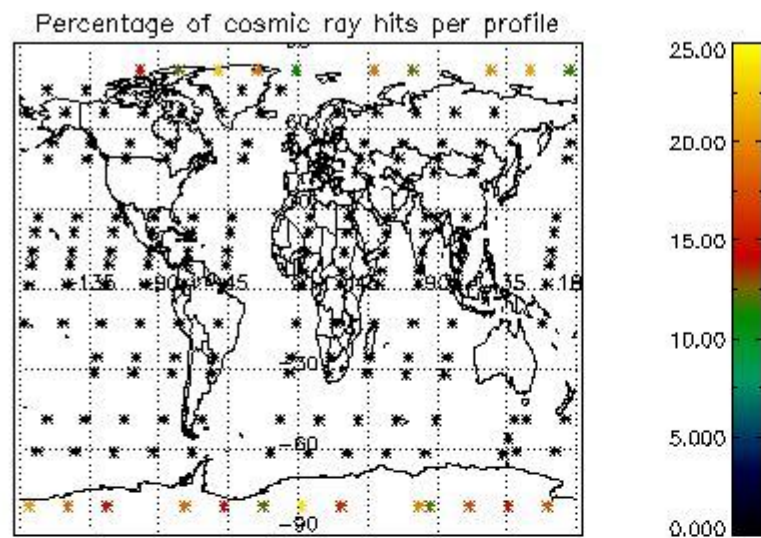
Percentage of star falling outside central band per profile



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

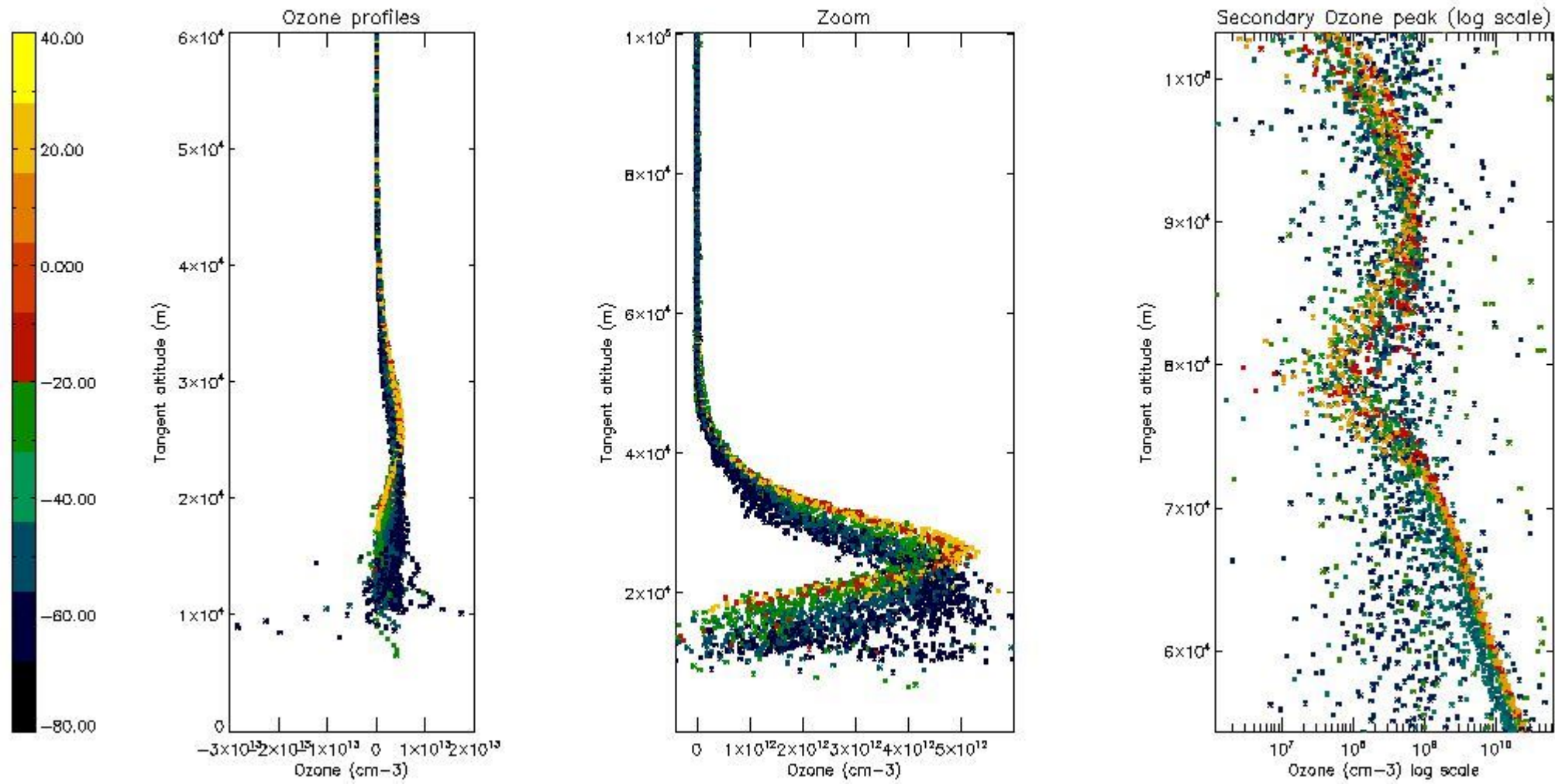
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	26
STD < 20	12

STD < 10	9
STD < 5	6

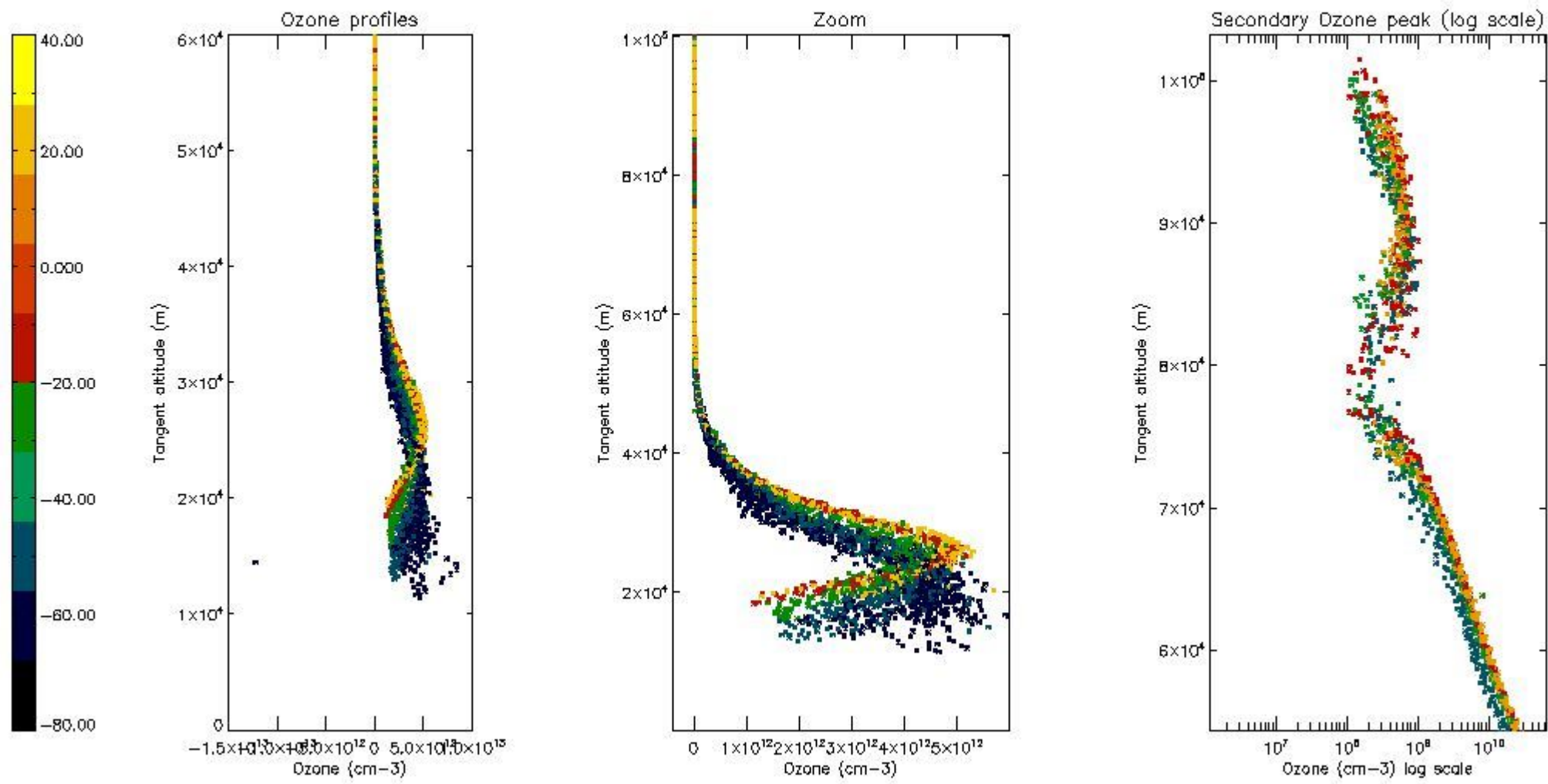
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



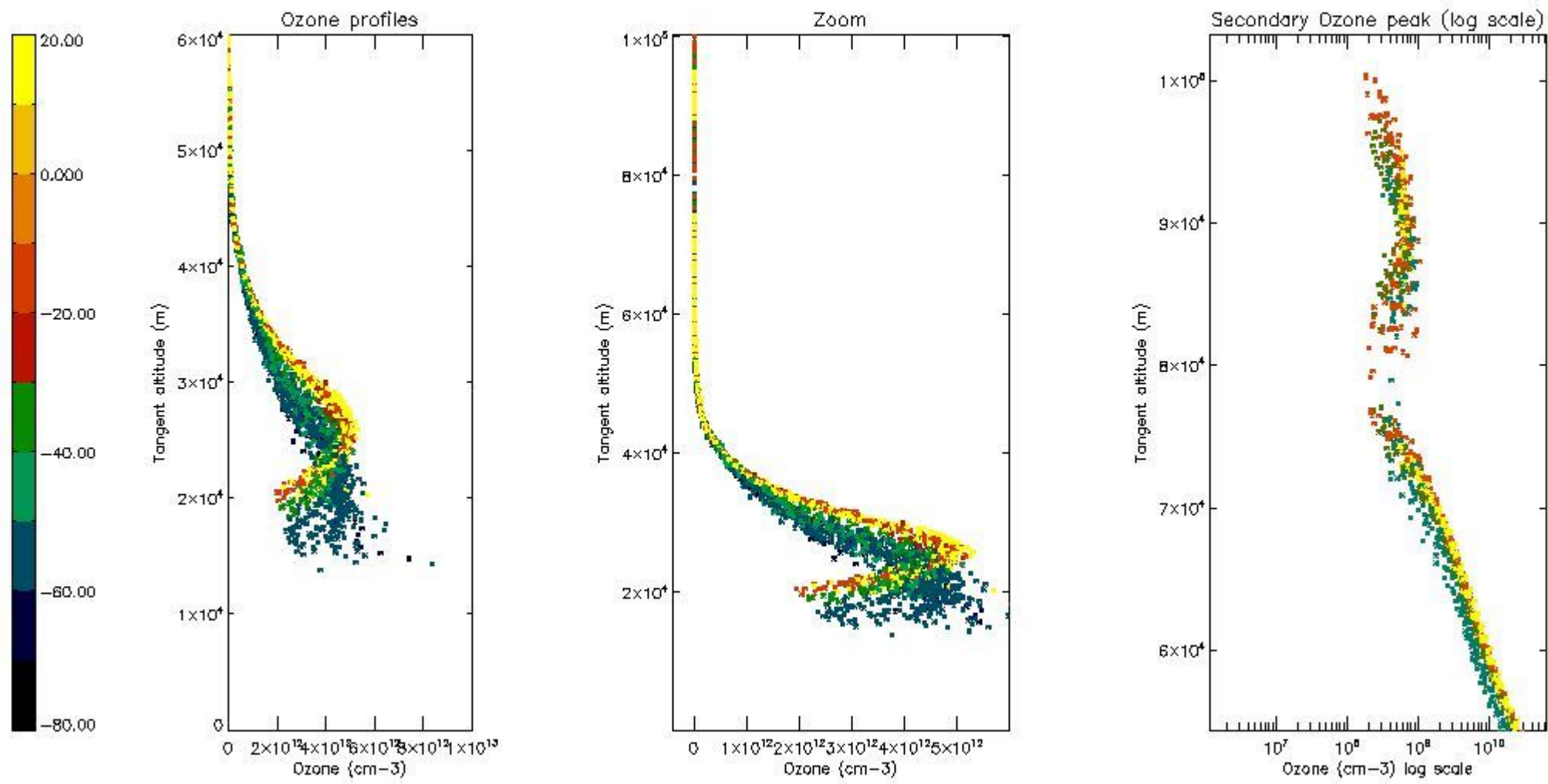
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



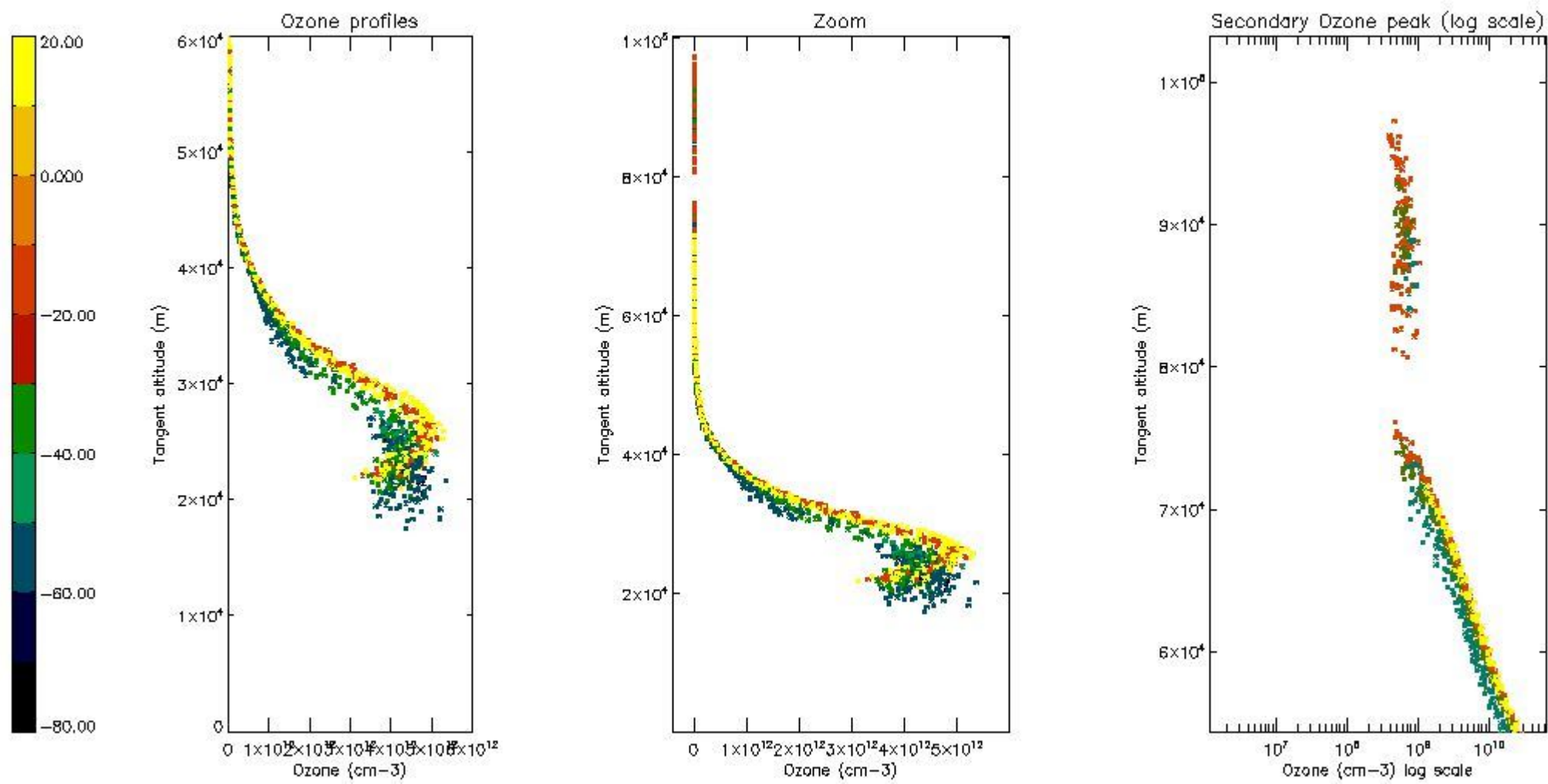
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



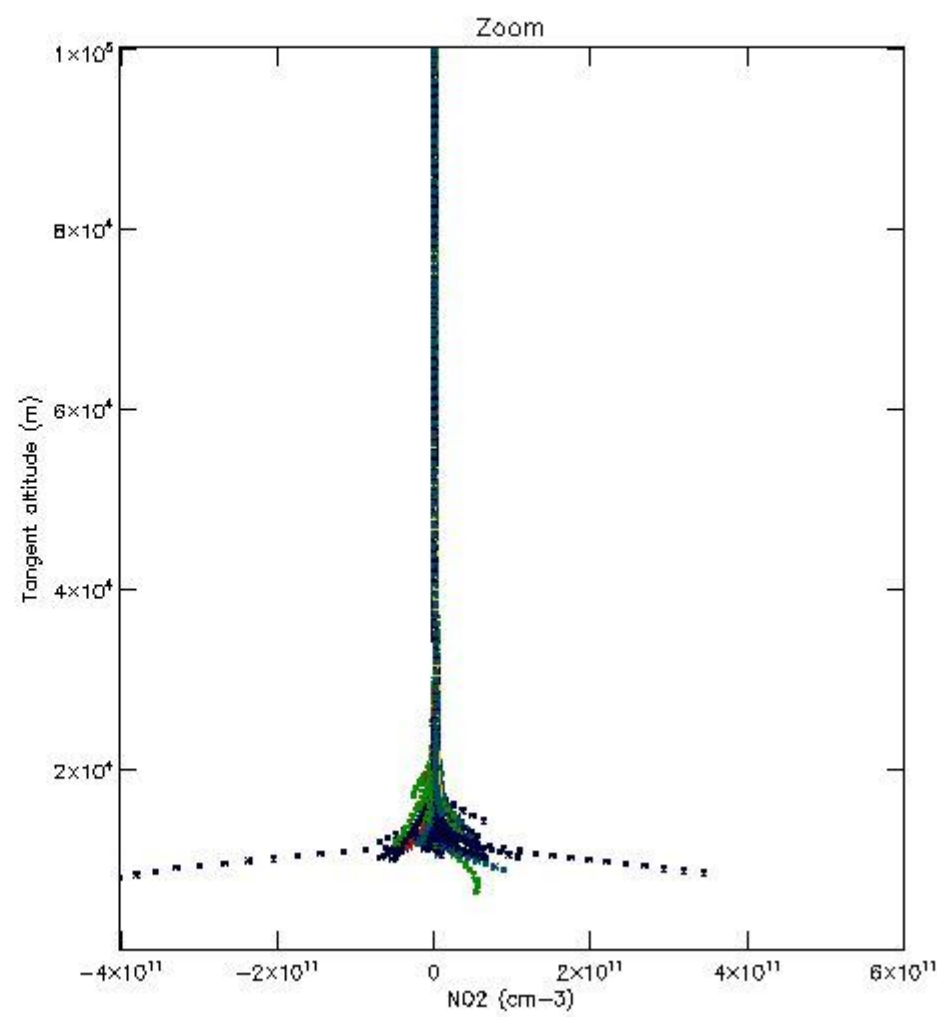
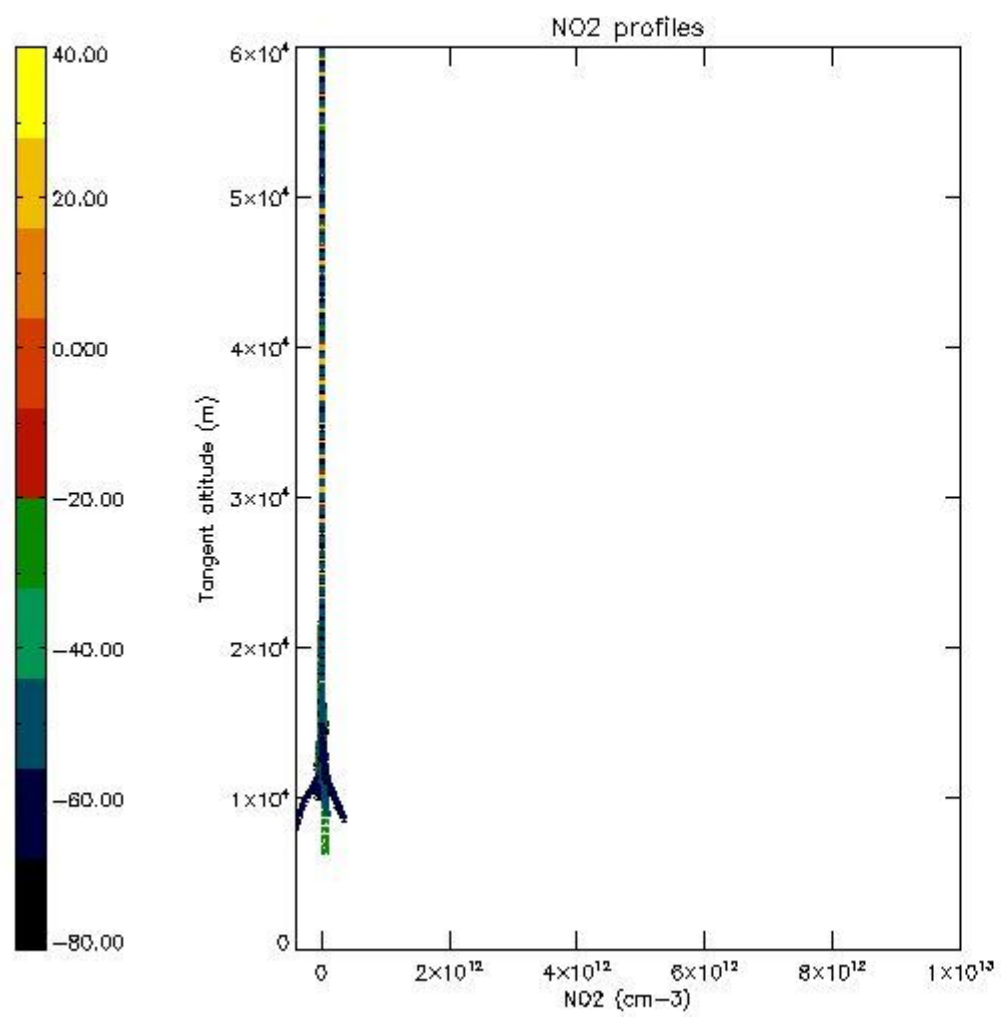
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



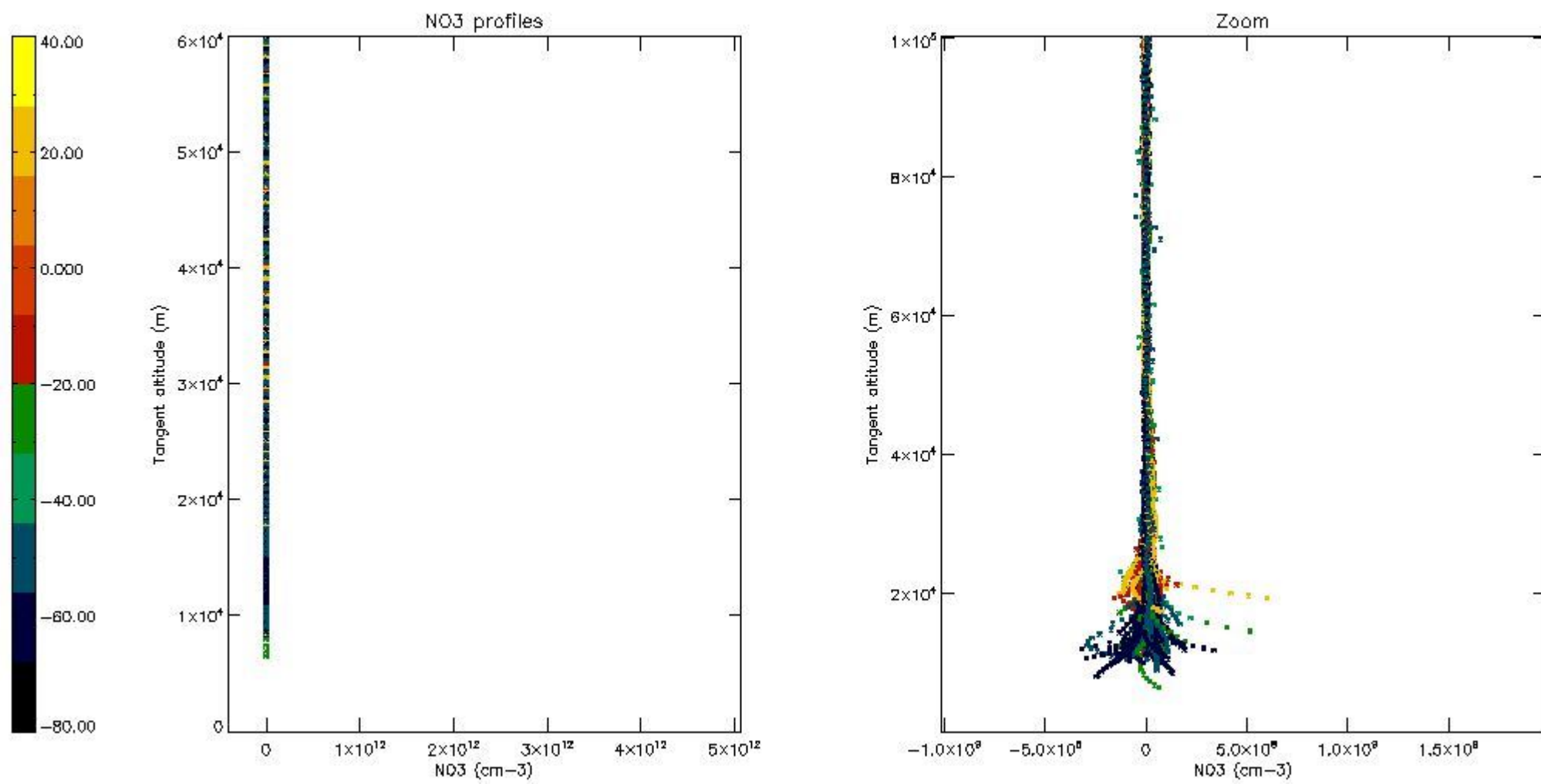
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



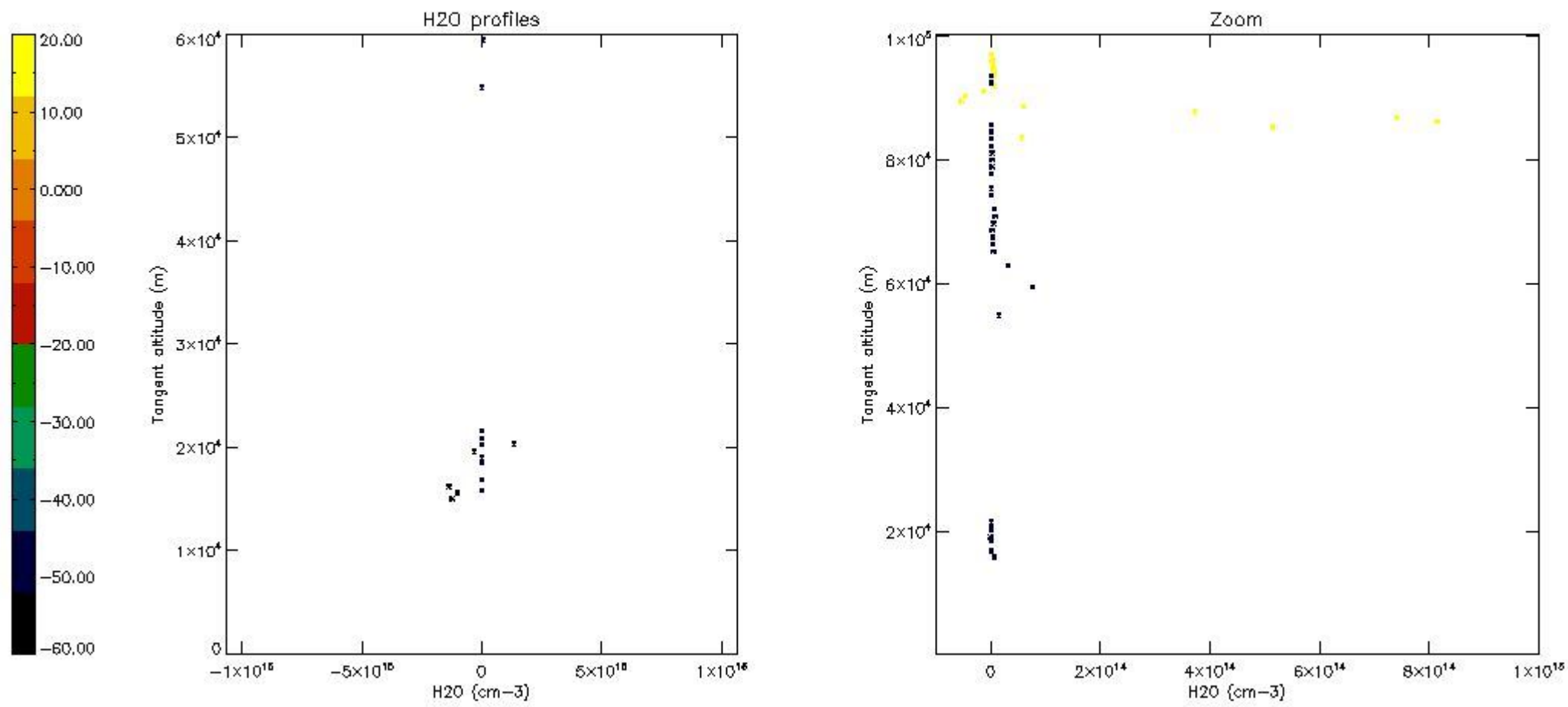
5.7 Plot NO₃ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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	27-APR-2004 00:03:58
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	27-APR-2004 00:03:58
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	27-APR-2004 00:03:58

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

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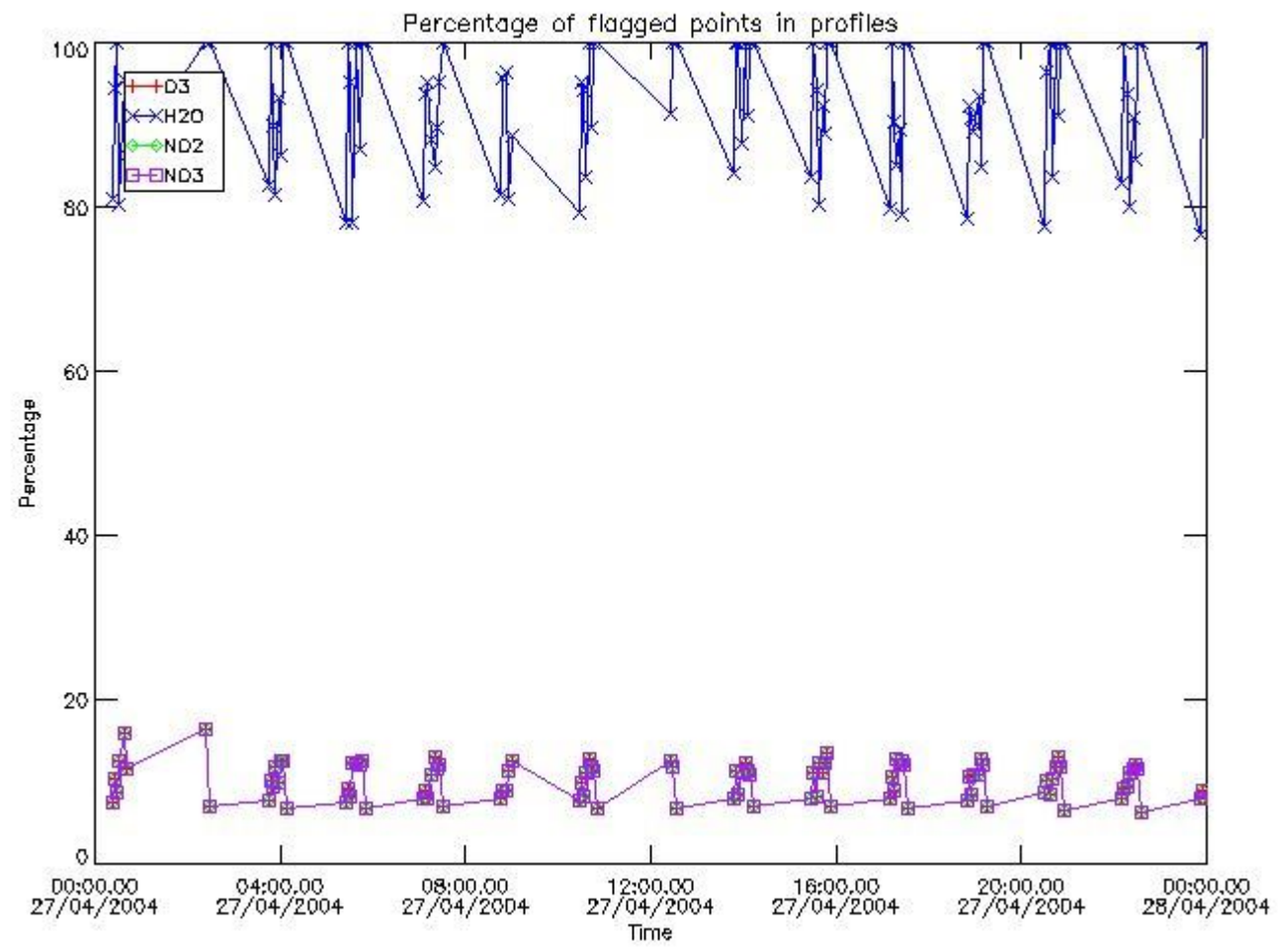
Item	Value
Time of report generation	19APR2013 00:45:57
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Store outputs in DB	Yes
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Nb of prods with errors	1

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__2PRFIN20040427_000358_000000452026_00202_11278_1952.N1	27-APR-2004 00:03:58	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	11278	No
2	GOM_NL__2PRFIN20040427_000558_000000522026_00202_11278_1953.N1	27-APR-2004 00:05:58	Bright	52.000	74	11Bet Cas	2.2680	6600.0	104	11278	No
3	GOM_NL__2PRFIN20040427_000742_000001492026_00202_11278_1954.N1	27-APR-2004 00:07:42	Bright	148.50	5	3Alp Lyr	0.033000	11000.	297	11278	No
4	GOM_NL__2PRFIN20040427_001427_000000732026_00202_11278_1955.N1	27-APR-2004 00:14:27	Twilight	73.000	92	53Eps Cyg	2.5000	4500.0	146	11278	No
5	GOM_NL__2PRFIN20040427_001915_000000472026_00202_11278_1956.N1	27-APR-2004 00:19:15	Twilight	46.500	90	54Alp Peg	2.4870	11000.	93	11278	No
6	GOM_NL__2PRFIN20040427_002309_000000692026_00202_11278_1957.N1	27-APR-2004 00:23:09	Dark	69.000	61	8Eps Peg	2.1000	3900.0	138	11278	No
7	GOM_NL__2PRFIN20040427_002537_000000552026_00202_11278_1958.N1	27-APR-2004 00:25:37	Dark	54.500	162	34Alp Aqr	2.9440	5350.0	109	11278	No
8	GOM_NL__2PRFIN20040427_002859_000000592026_00202_11278_1959.N1	27-APR-2004 00:28:59	Dark	59.000	154	22Bet Aqr	2.8990	5700.0	118	11278	No
9	GOM_NL__2PRFIN20040427_003155_000000492026_00202_11278_1960.N1	27-APR-2004 00:31:55	Dark	48.500	18	24Alp PsA	1.1660	9700.0	97	11278	No
10	GOM_NL__2PRFIN20040427_003737_000000452026_00202_11278_1961.N1	27-APR-2004 00:37:37	Dark	45.000	31	Alp Gru	1.7340	15200.	90	11278	No
11	GOM_NL__2PRFIN20040427_004024_000000442026_00202_11278_1962.N1	27-APR-2004 00:40:24	Dark	43.500	148	Alp Tuc	2.8780	4100.0	87	11278	No
12	GOM_NL__2PRFIN20040427_022337_000000442026_00204_11280_1722.N1	27-APR-2004 02:23:37	Dark	43.500	45	Alp Pav	1.9400	26000.	87	11280	No
13	GOM_NL__2PRFIN20040427_022836_000000742026_00204_11280_1723.N1	27-APR-2004 02:28:36	Dark	73.500	103	38Zet Sgr	2.6000	9700.0	147	11280	No
14	GOM_NL__2PRFIN20040427_023112_000000462026_00204_11280_1724.N1	27-APR-2004 02:31:12	Straylight	45.500	141	Bet Ara	2.8400	4600.0	91	11280	No
15	GOM_NL__2PRFIN20040427_023249_000000562026_00204_11280_1725.N1	27-APR-2004 02:32:49	Straylight	56.000	40	The Sco	1.8590	7100.0	112	11280	No
16	GOM_NL__2PRFIN20040427_023447_000000532026_00204_11280_1726.N1	27-APR-2004 02:34:47	Straylight	53.000	4	Alp1Cen	-0.010000	5800.0	106	11280	No
17	GOM_NL__2PRFIN20040427_023629_000000412026_00204_11280_1727.N1	27-APR-2004 02:36:29	Straylight	41.000	20	Bet Cru	1.2530	30000.	82	11280	No
18	GOM_NL__2PRFIN20040427_023928_000000412026_00204_11280_1728.N1	27-APR-2004 02:39:28	Straylight	40.500	64	Gam Cen	2.2000	10600.	81	11280	No
19	GOM_NL__2PRFIN20040427_024147_000000772026_00204_11280_1729.N1	27-APR-2004 02:41:47	Twilight	76.500	16	21Alp Sco	1.0200	3000.0	153	11280	No
20	GOM_NL__2PRFIN20040427_024413_000000662026_00204_11280_1730.N1	27-APR-2004 02:44:13	Twilight	65.500	80	7Del Sco	2.3160	30000.	131	11280	No
21	GOM_NL__2PRFIN20040427_024610_000000452026_00204_11280_1731.N1	27-APR-2004 02:46:10	Bright	45.000	169	46Gam Hya	2.9910	4700.0	90	11280	No
22	GOM_NL__2PRFIN20040427_025237_000000392026_00204_11280_1732.N1	27-APR-2004 02:52:37	Bright	39.000	121	29Gam Vir	2.7400	7200.0	78	11280	No
23	GOM_NL__2PRFIN20040427_025601_000000392026_00204_11280_1733.N1	27-APR-2004 02:56:01	Bright	39.000	138	47Eps Vir	2.8280	4700.0	78	11280	No
24	GOM_NL__2PRFIN20040427_025738_000000382026_00204_11280_1734.N1	27-APR-2004 02:57:38	Bright	37.500	62	94Bet Leo	2.1360	9700.0	75	11280	No
25	GOM_NL__2PRFIN20040427_025910_000000472026_00204_11280_1735.N1	27-APR-2004 02:59:10	Bright	46.500	3	16Alp Boo	-0.050000	4250.0	93	11280	No
26	GOM_NL__2PRFIN20040427_030351_000000382026_00204_11280_1736.N1	27-APR-2004 03:03:51	Bright	37.500	152	12Alp2CVn	2.8900	11000.	75	11280	No
27	GOM_NL__2PRFIN20040427_030531_000000432026_00204_11280_1737.N1	27-APR-2004 03:05:31	Bright	43.000	180	27Gam Boo	3.0400	8000.0	86	11280	No
28	GOM_NL__2PRFIN20040427_030732_000000392026_00204_11280_1738.N1	27-APR-2004 03:07:32	Bright	39.000	39	85Eta UMa	1.8540	24000.	78	11280	No
29	GOM_NL__2PRFIN20040427_030929_000000422026_00204_11280_1739.N1	27-APR-2004 03:09:29	Bright	42.000	82	48Bet UMa	2.3650	10600.	84	11280	No
30	GOM_NL__2PRFIN20040427_031053_000000392026_00204_11280_1740.N1	27-APR-2004 03:10:53	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	11280	No
31	GOM_NL__2PRFIN20040427_031459_000000392026_00204_11280_1741.N1	27-APR-2004 03:14:59	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	11280	No
32	GOM_NL__2PRFIN20040427_031832_000000392026_00204_11280_1742.N1	27-APR-2004 03:18:32	Bright	39.000	49	1Alp UMi	1.9900	6300.0	78	11280	No
33	GOM_NL__2PRFIN20040427_032020_000000642026_00204_11280_1743.N1	27-APR-2004 03:20:20	Bright	64.000	69	33Gam Dra	2.2310	3800.0	128	11280	No
34	GOM_NL__2PRFIN20040427_032511_000000442026_00204_11280_1744.N1	27-APR-2004 03:25:11	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	11280	No
35	GOM_NL__2PRFIN20040427_032850_000001592026_00204_11280_1745.N1	27-APR-2004 03:28:50	Bright	159.00	5	3Alp Lyr	0.033000	11000.	318	11280	No
36	GOM_NL__2PRFIN20040427_033539_000000772026_00204_11280_1746.N1	27-APR-2004 03:35:39	Twilight	76.500	92	53Eps Cyg	2.5000	4500.0	153	11280	No
37	GOM_NL__2PRFIN20040427_034027_000000462026_00204_11280_1747.N1	27-APR-2004 03:40:27	Twilight	45.500	90	54Alp Peg	2.4870	11000.	91	11280	No
38	GOM_NL__2PRFIN20040427_034420_000000672026_00204_11280_1748.N1	27-APR-2004 03:44:20	Dark	66.500	61	8Eps Peg	2.1000	3900.0	133	11280	No
39	GOM_NL__2PRFIN20040427_034649_000000552026_00204_11280_1749.N1	27-APR-2004 03:46:49	Dark	55.000	162	34Alp Aqr	2.9440	5350.0	110	11280	No
40	GOM_NL__2PRFIN20040427_035013_000000602026_00204_11280_1750.N1	27-APR-2004 03:50:13	Dark	59.500	154	22Bet Aqr	2.8990	5700.0	119	11280	No
41	GOM_NL__2PRFIN20040427_035308_000000442026_00204_11280_1751.N1	27-APR-2004 03:53:08	Dark	43.500	18	24Alp PsA	1.1660	9700.0	87	11280	No
42	GOM_NL__2PRFIN20040427_035851_000000522026_00204_11280_1752.N1	27-APR-2004 03:58:51	Dark	51.500	31	Alp Gru	1.7340	15200.	103	11280	No

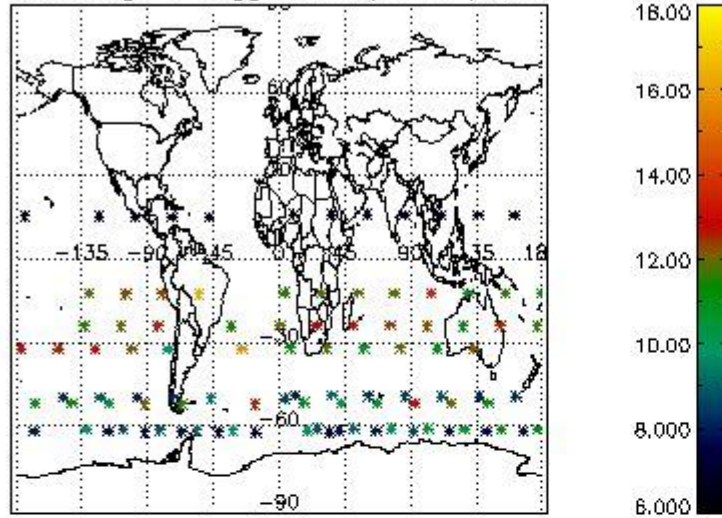
the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

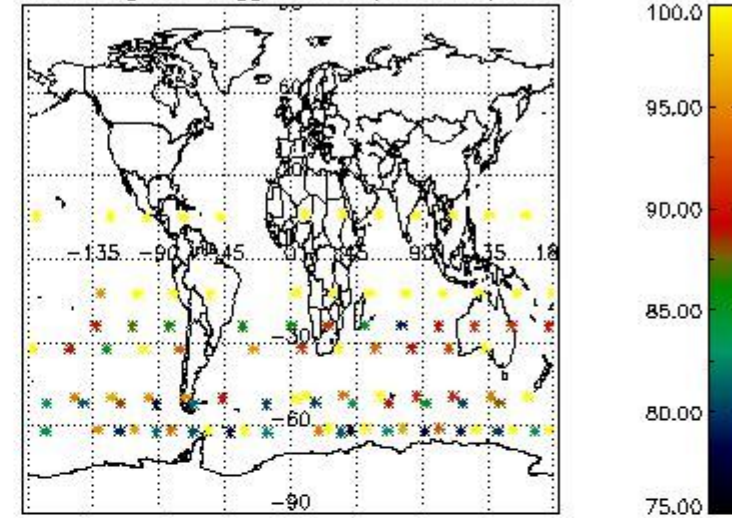


3.2 Plot quality information per product (world map)

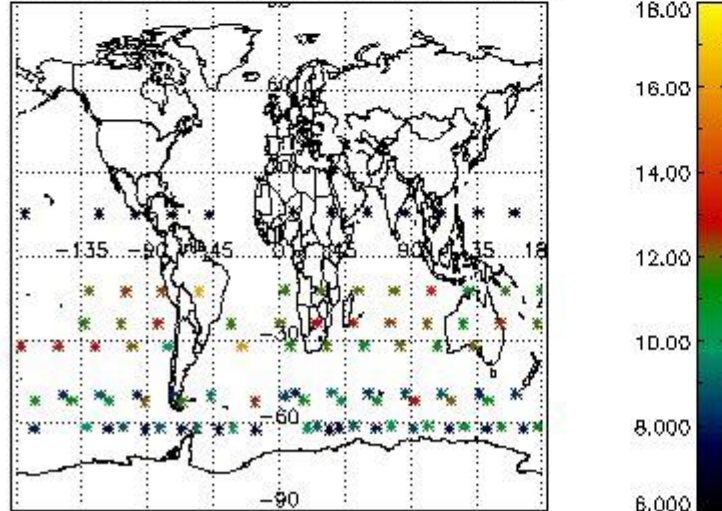
Percentage of flagged data per O3 profile



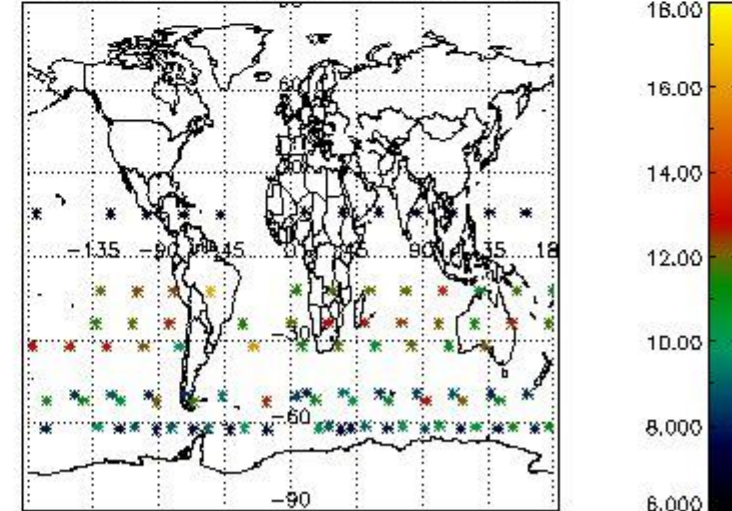
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

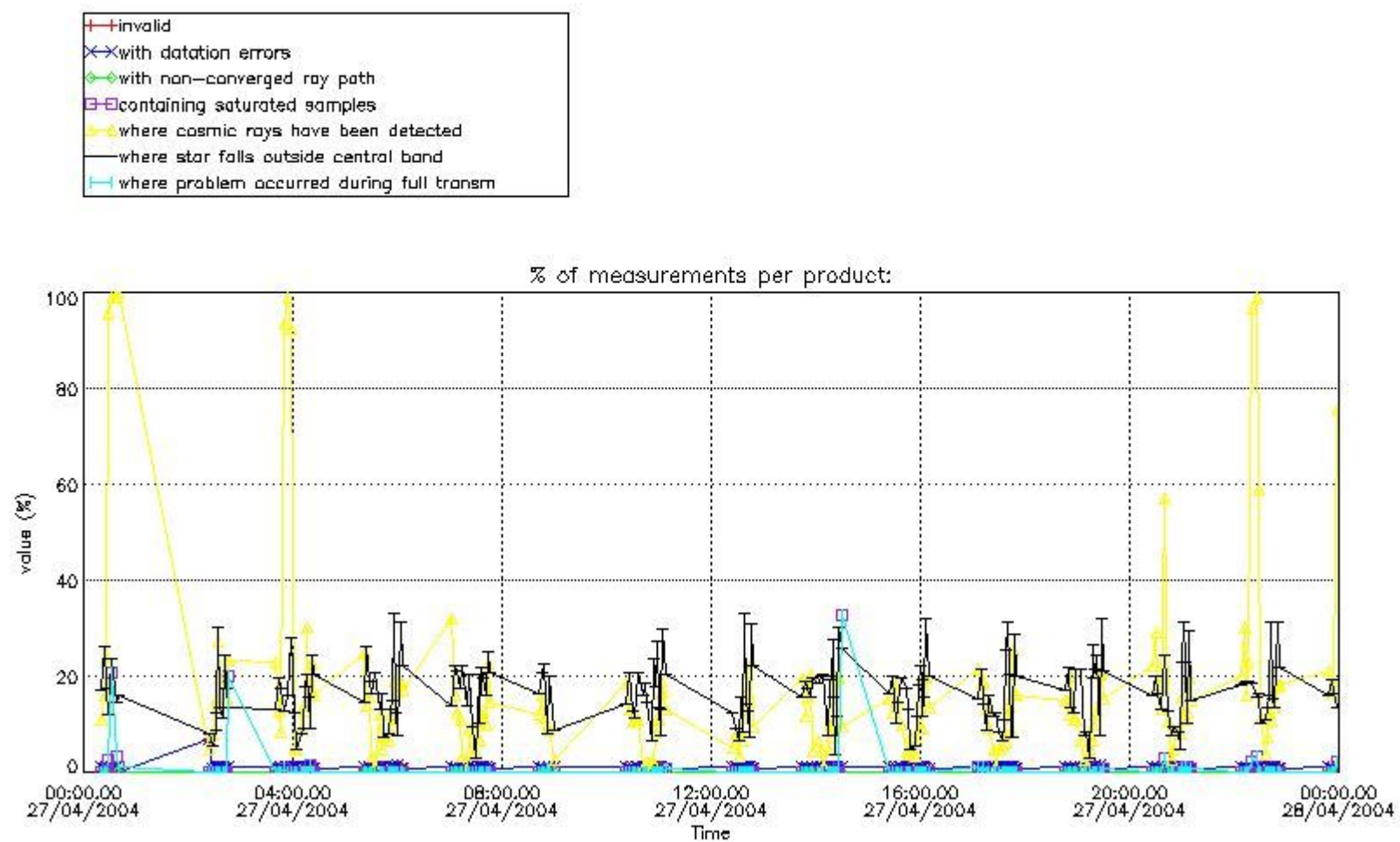


4. Level 1 quality information per product

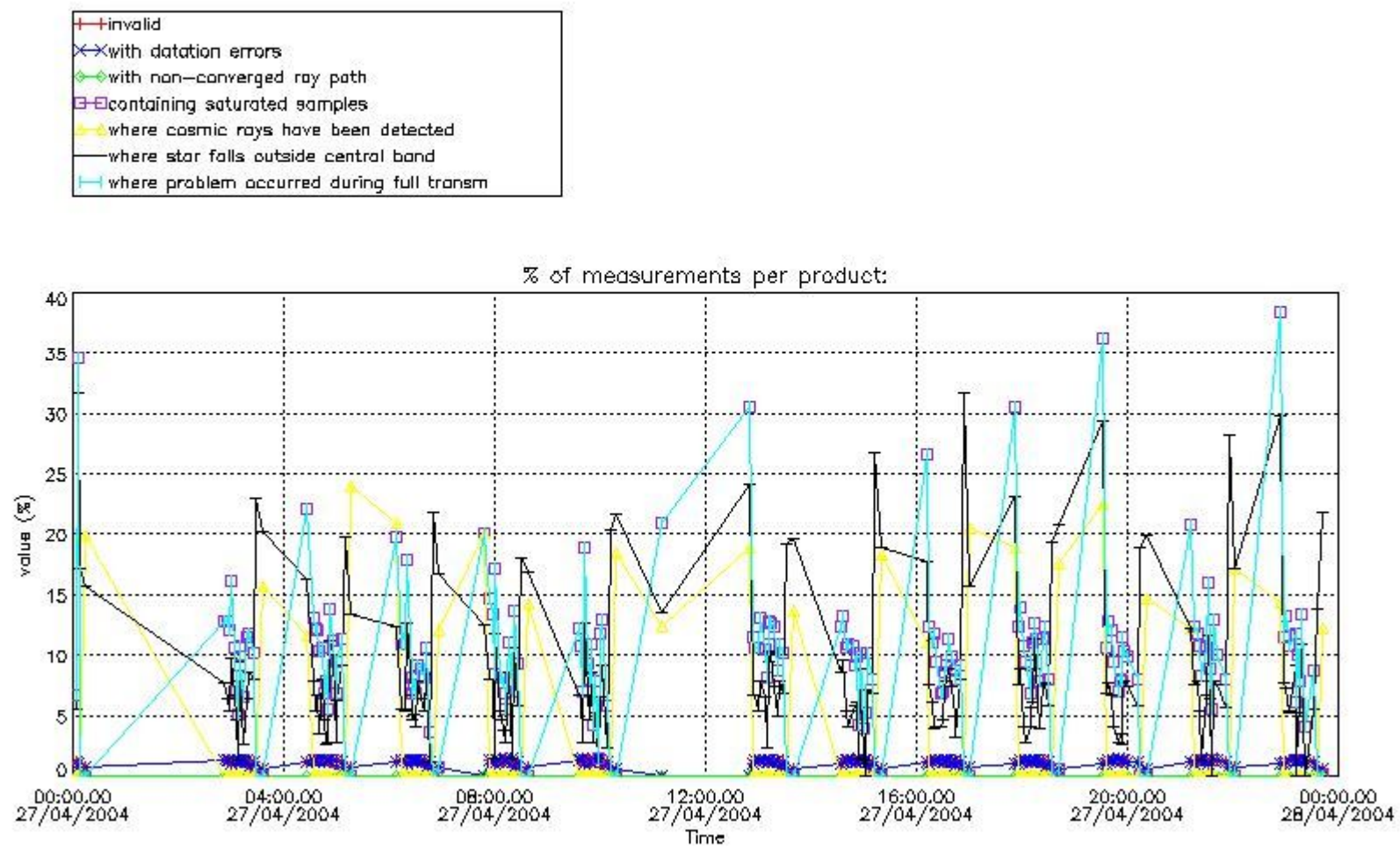
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



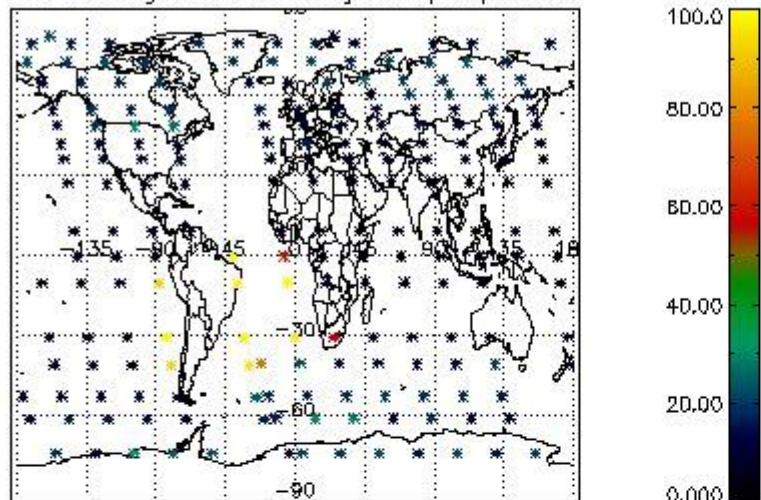
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



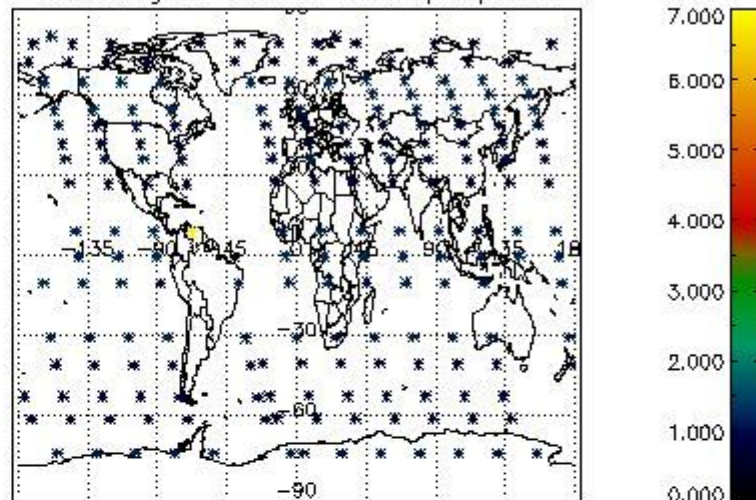
4.2 Plot quality information per product coming from level 1b processing (world map)

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

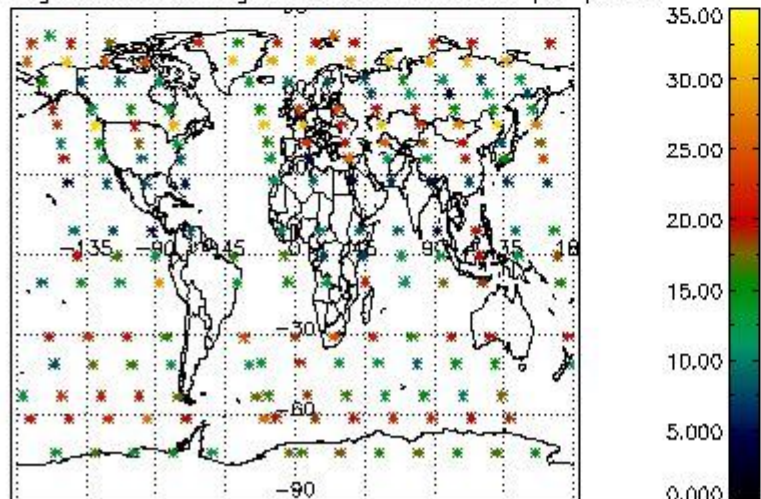
Percentage of cosmic ray hits per profile



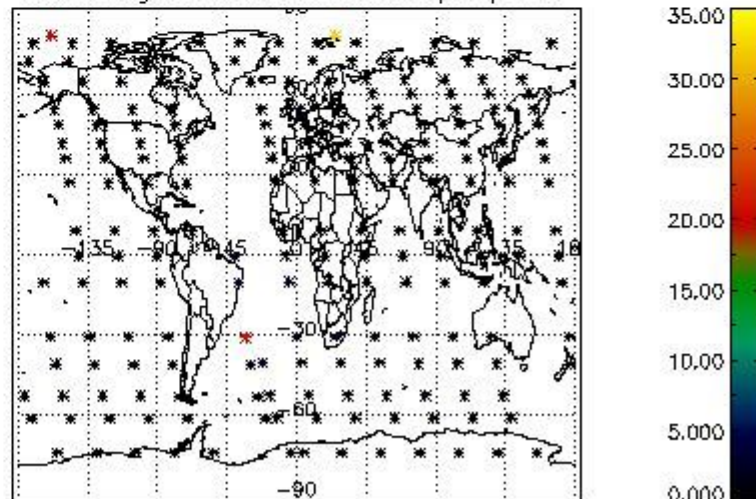
Percentage of datation errors per profile



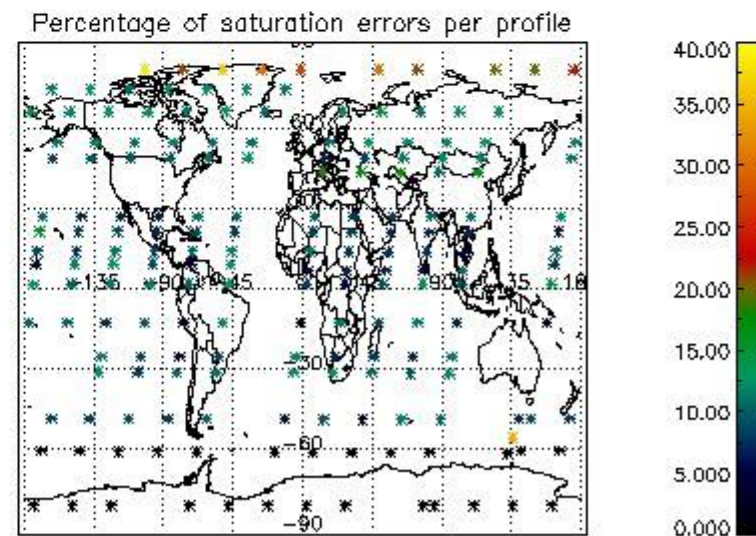
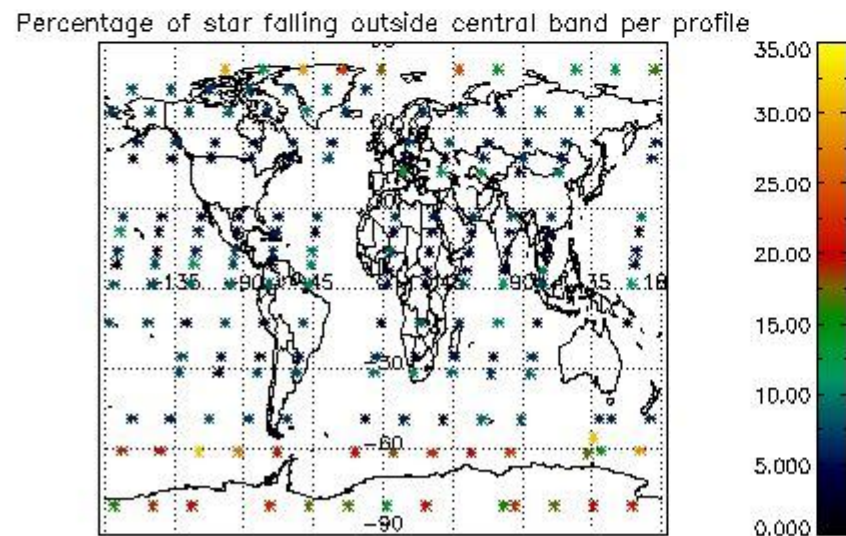
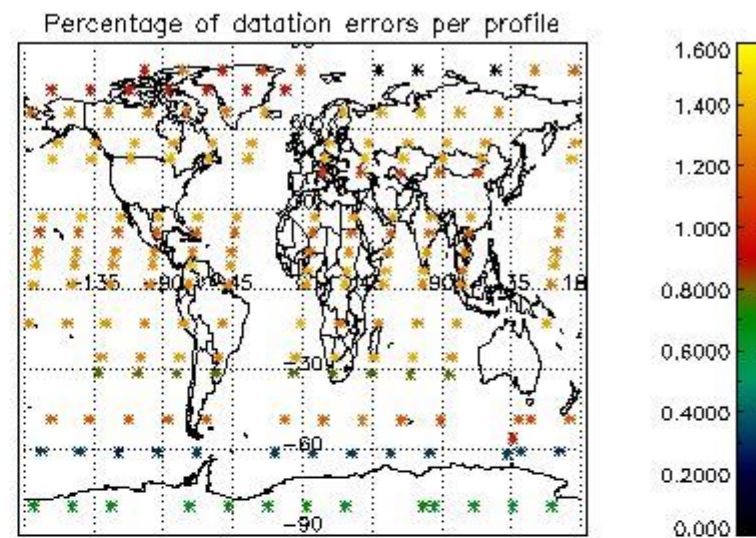
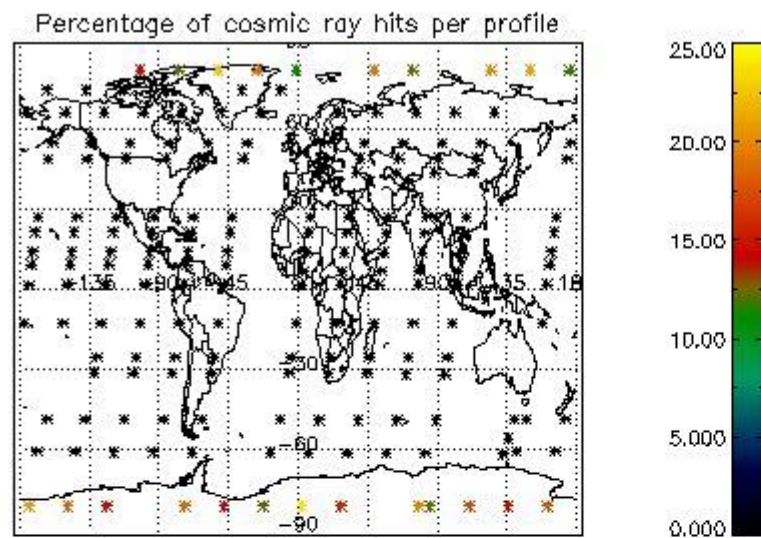
Percentage of star falling outside central band per profile



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

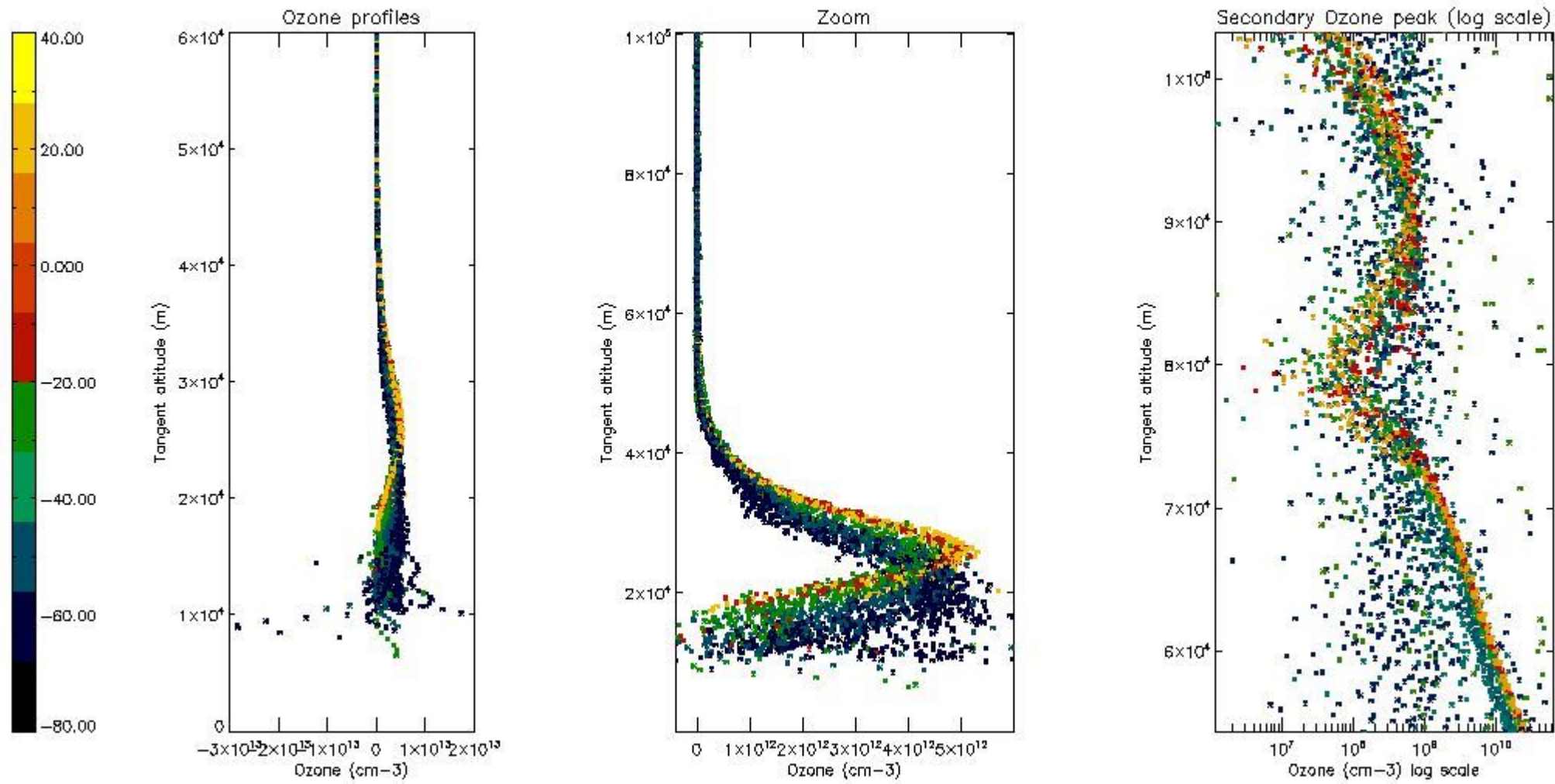
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	26
STD < 20	12

STD < 10	9
STD < 5	6

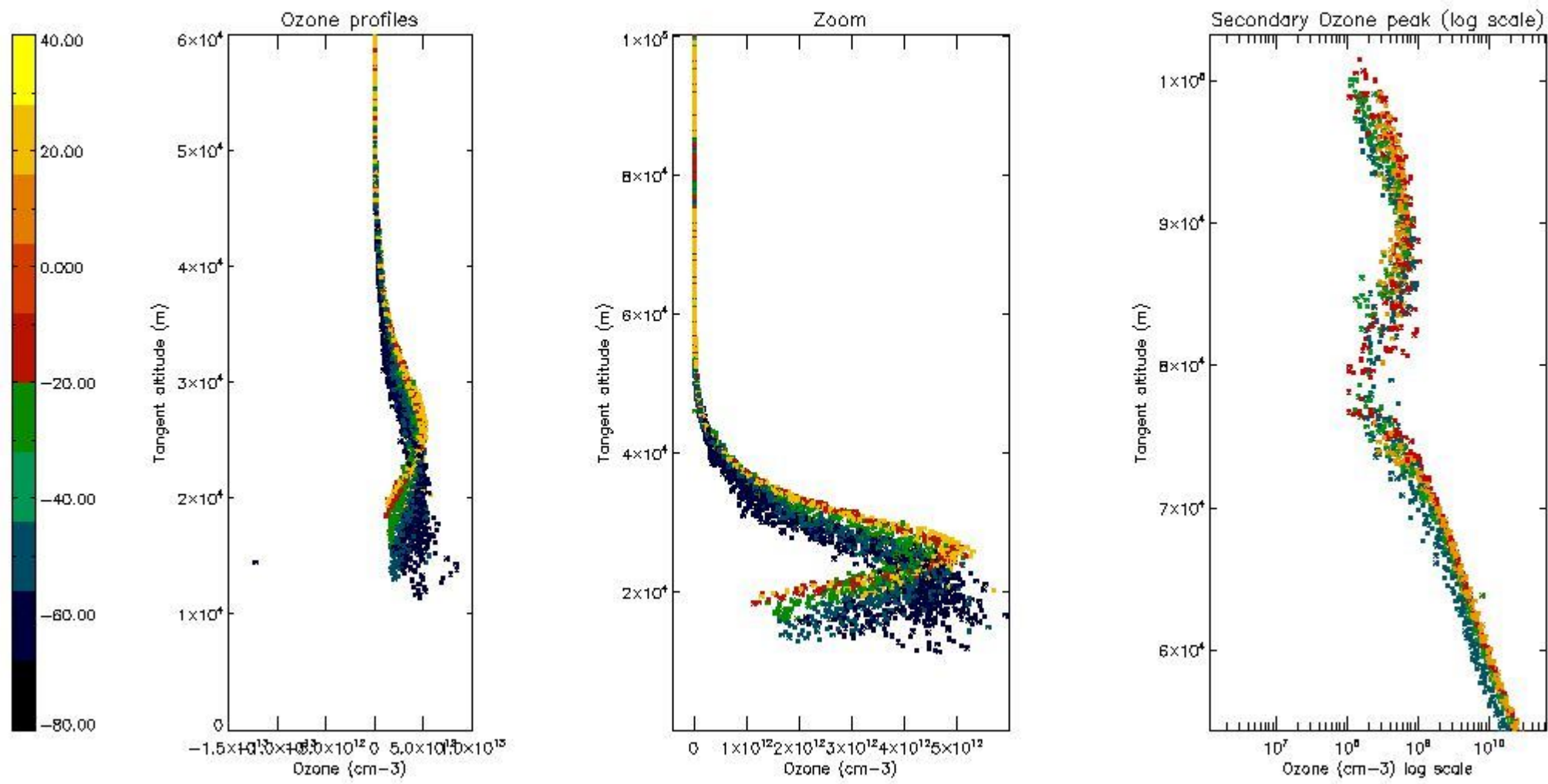
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



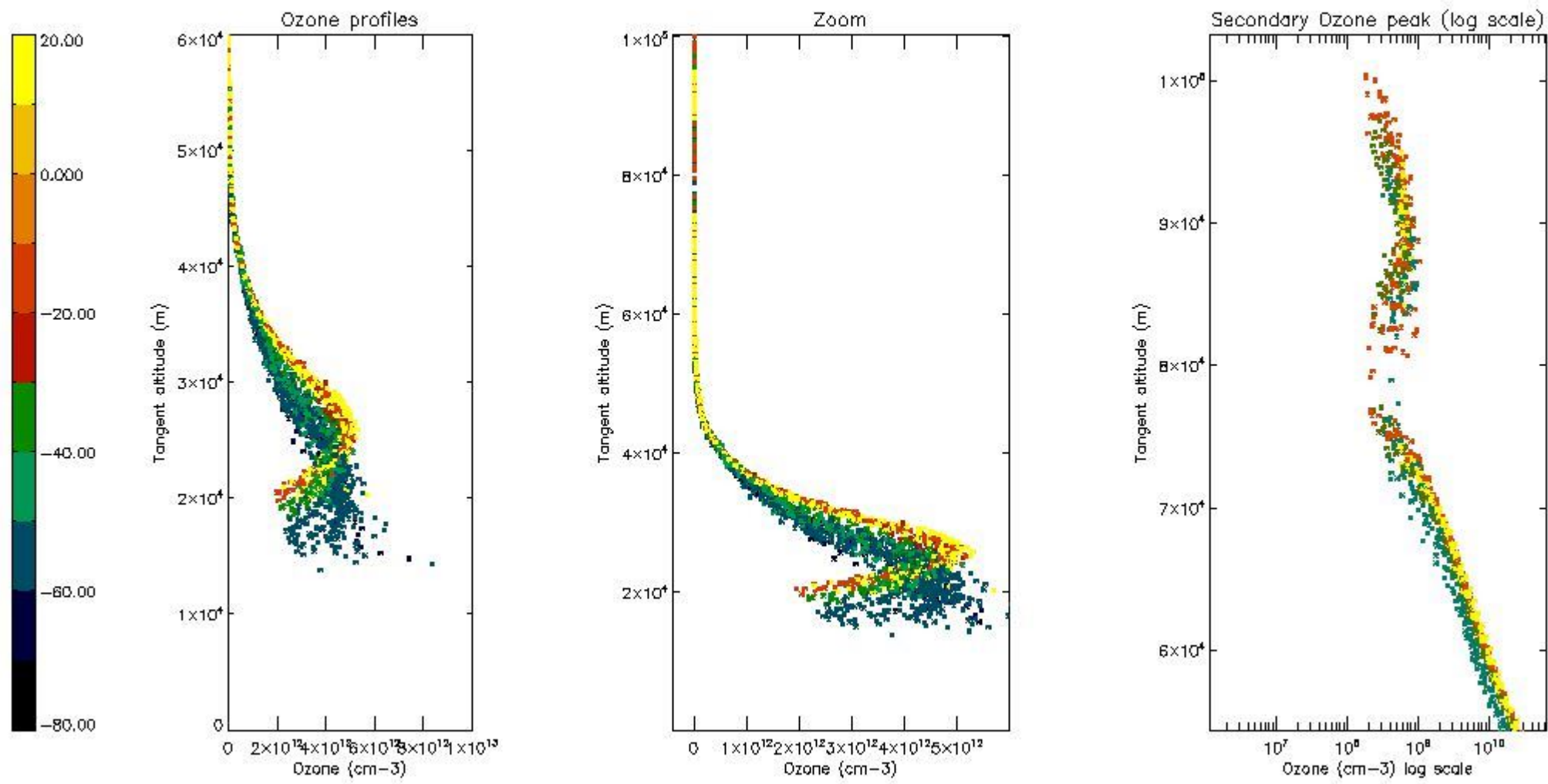
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



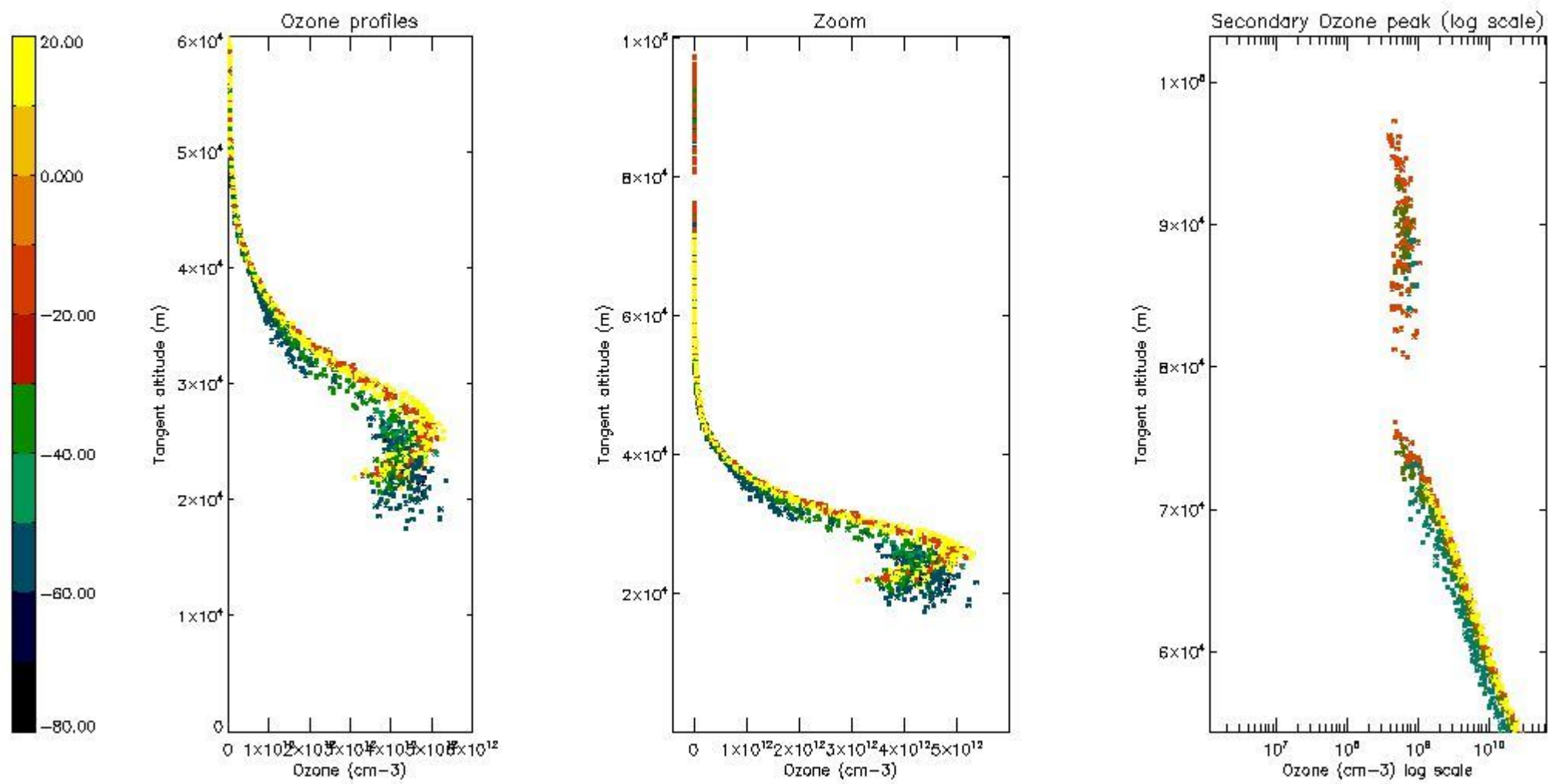
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



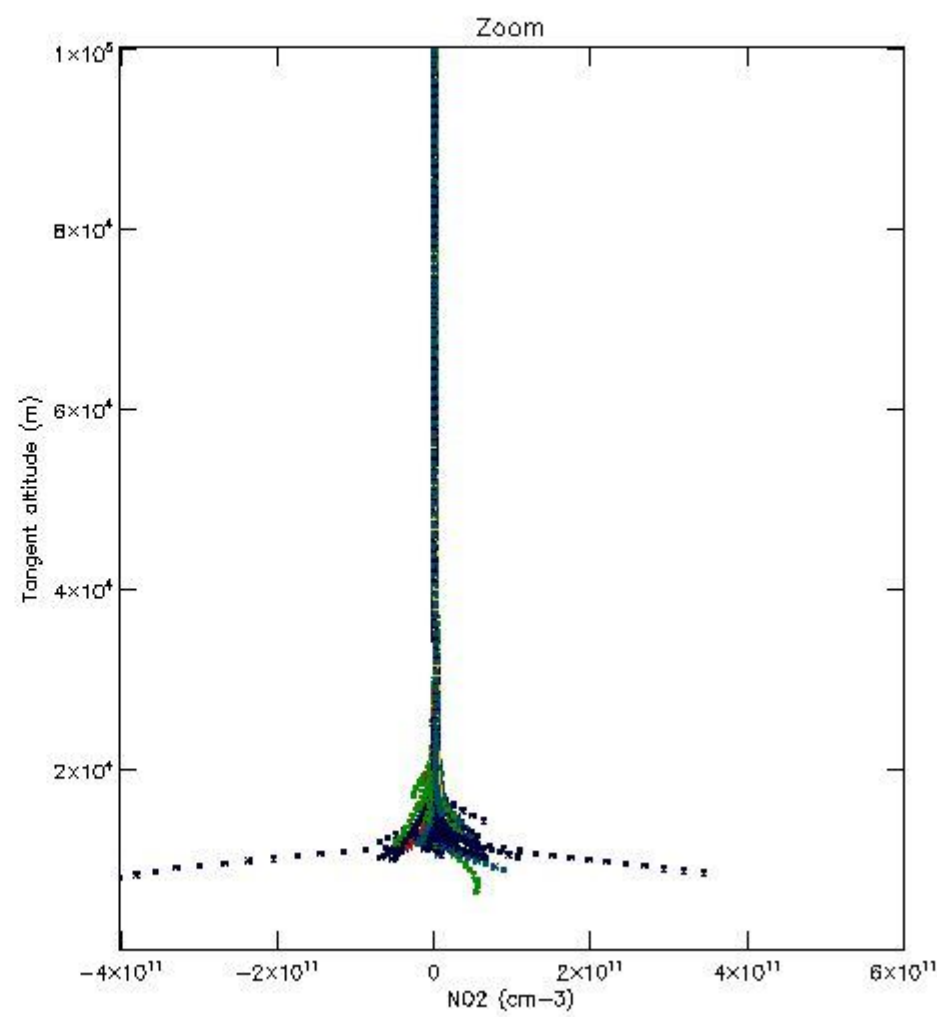
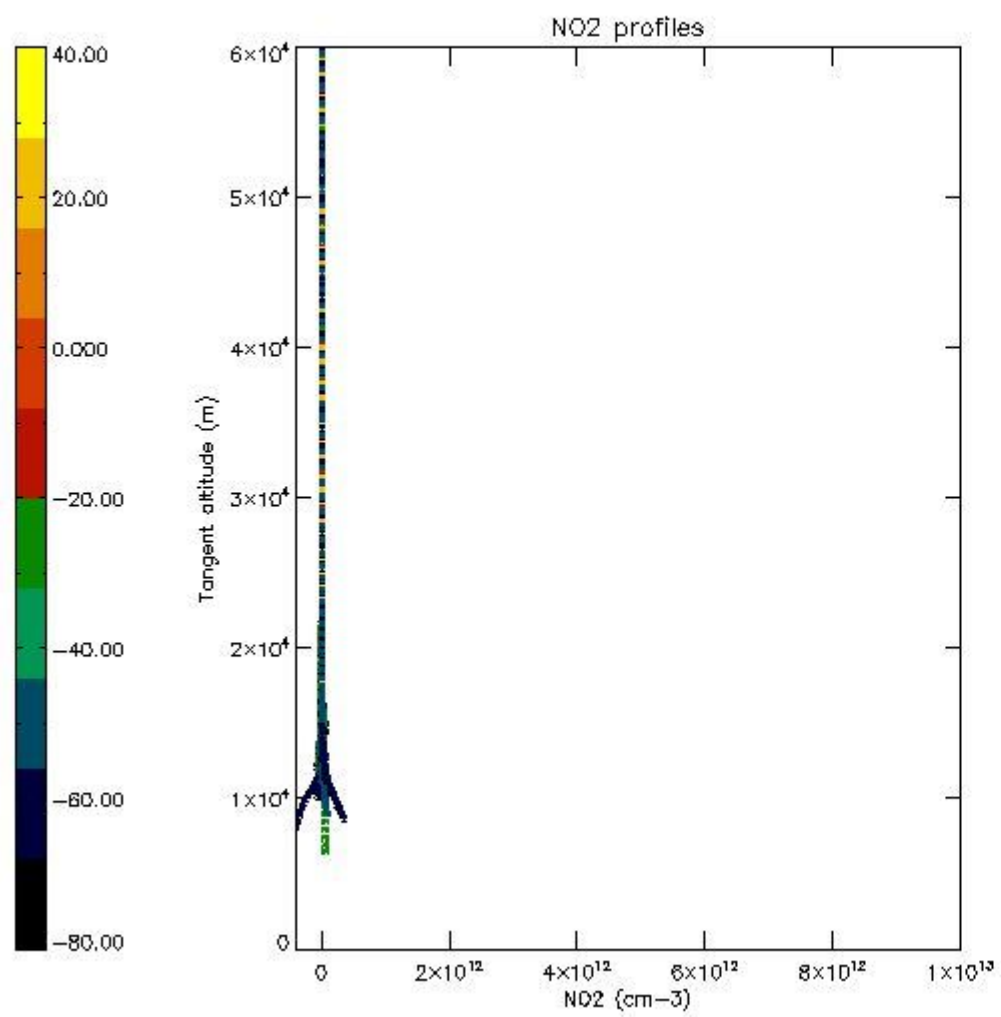
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



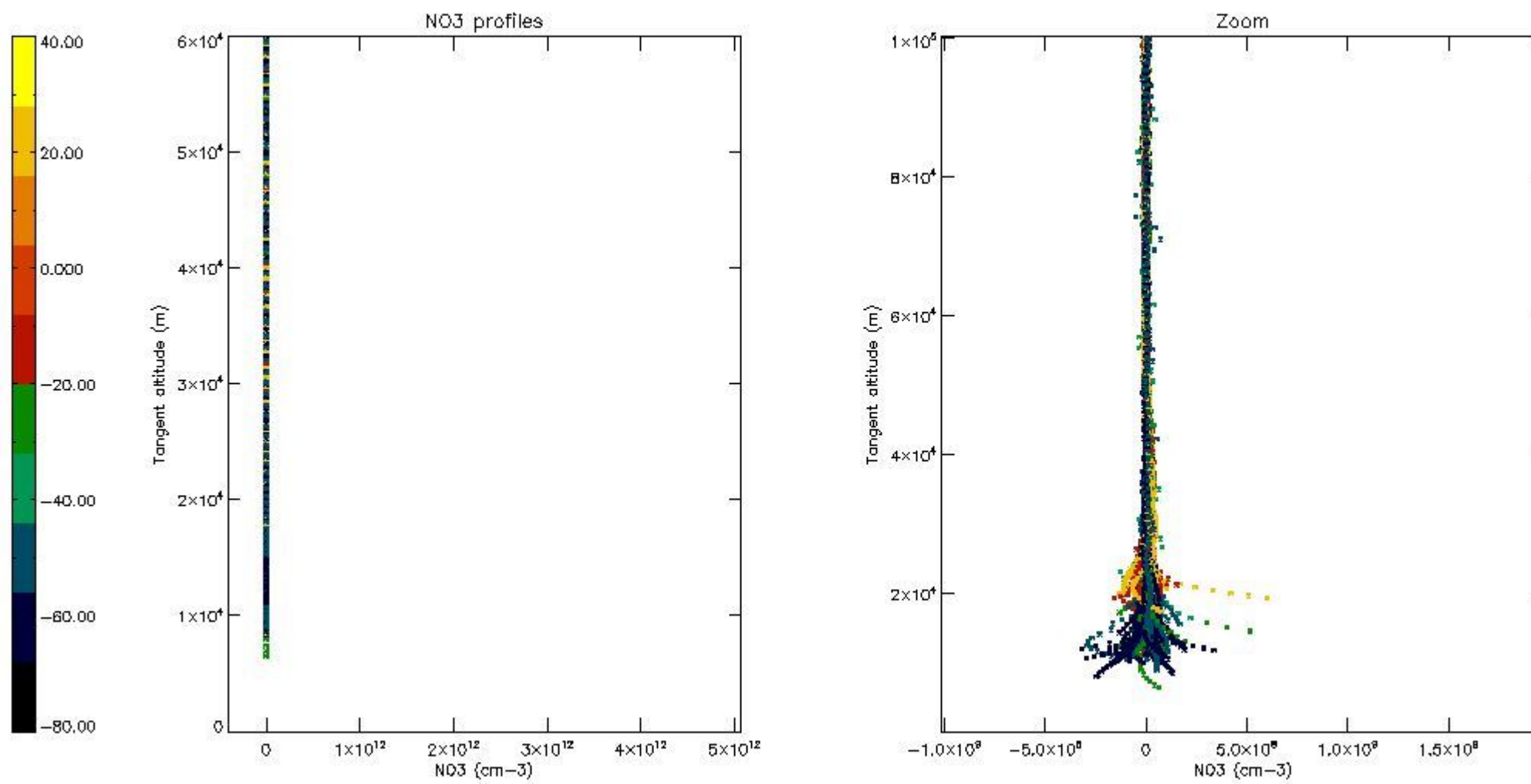
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



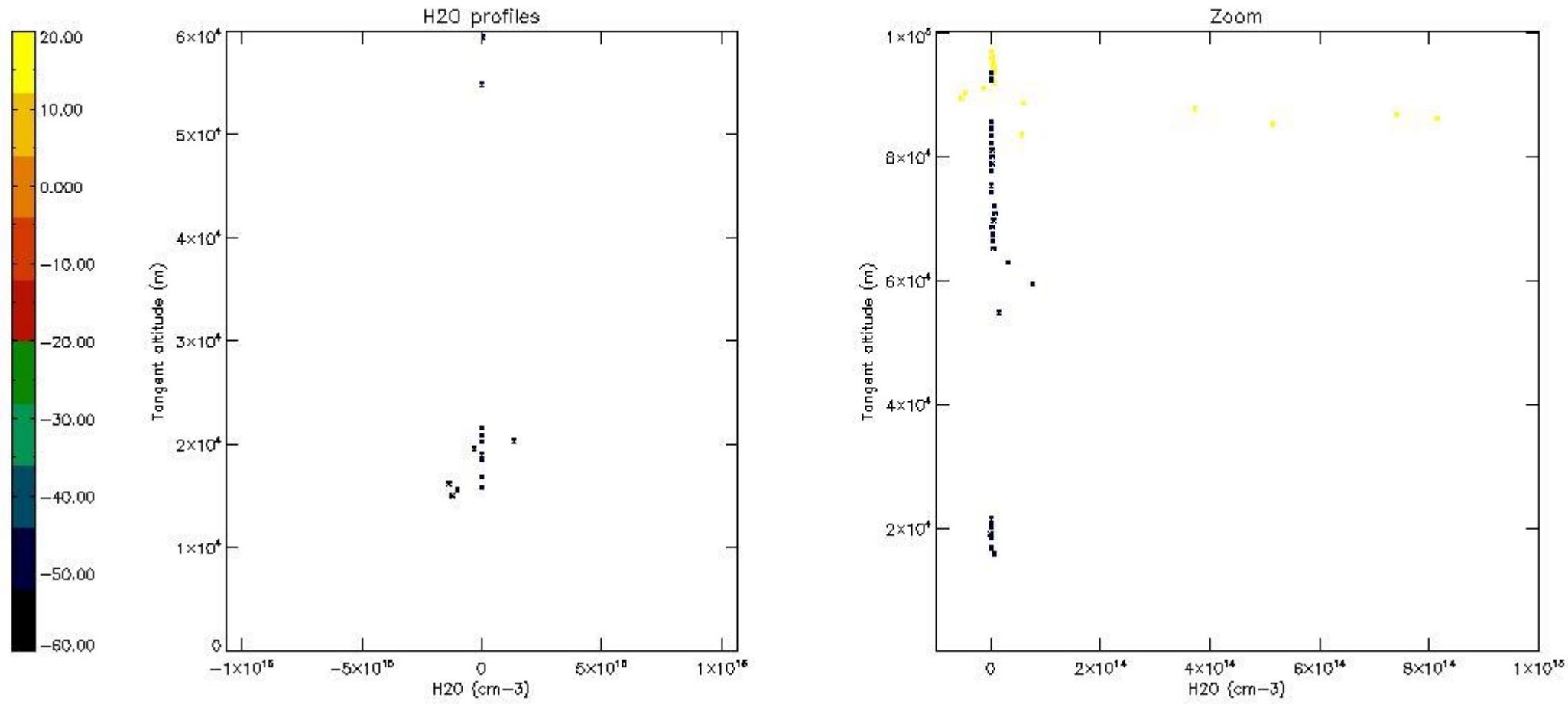
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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)

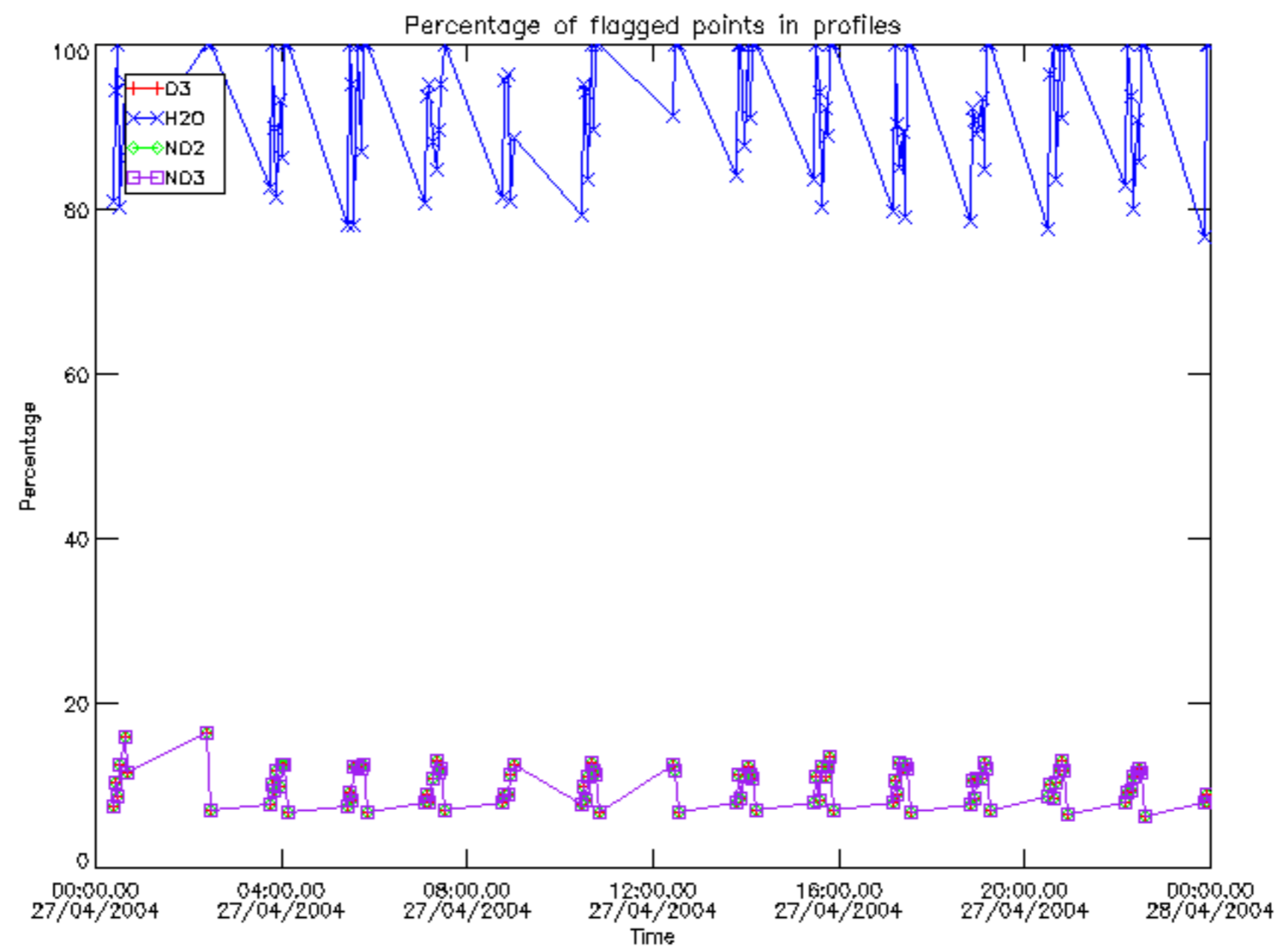
The colorbar represents the latitude.



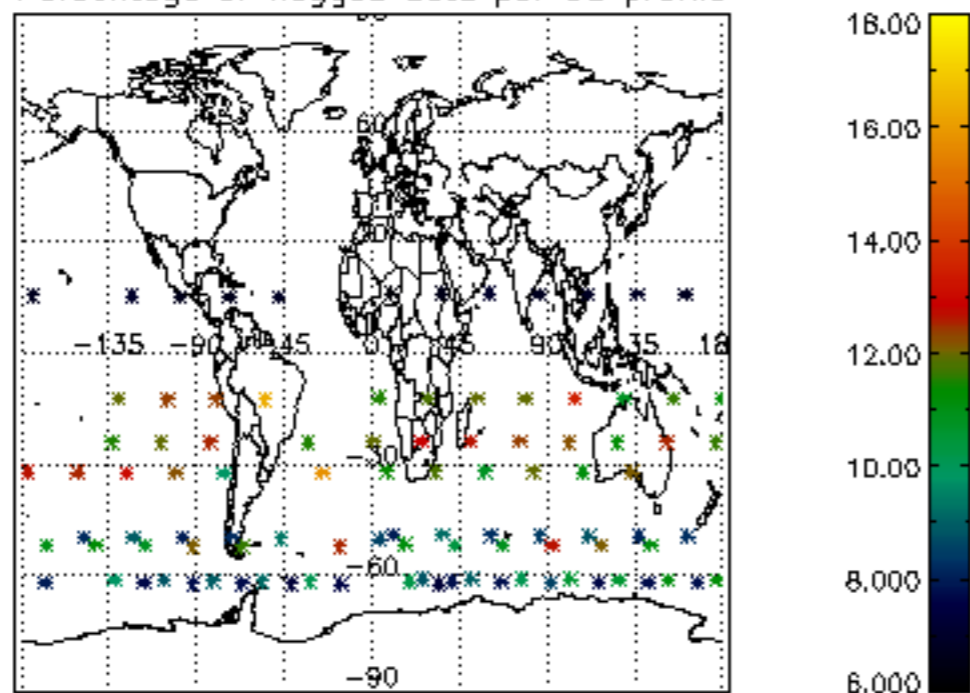
6. Auxiliary Data Files used for the production reported in section 2

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.

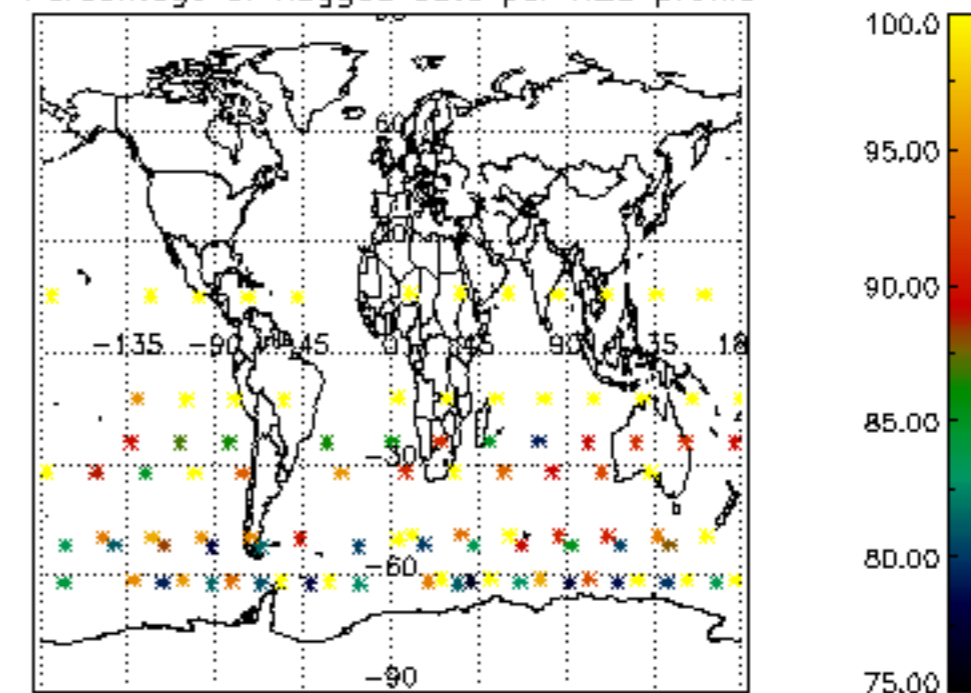
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	27-APR-2004 00:03:58
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	27-APR-2004 00:03:58
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	27-APR-2004 00:03:58



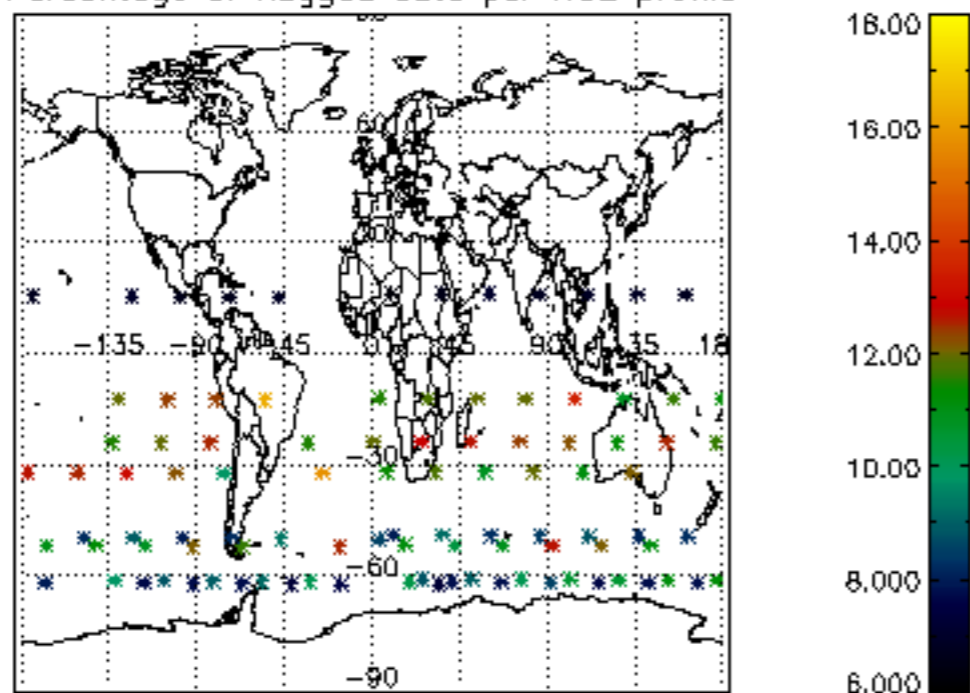
Percentage of flagged data per D3 profile



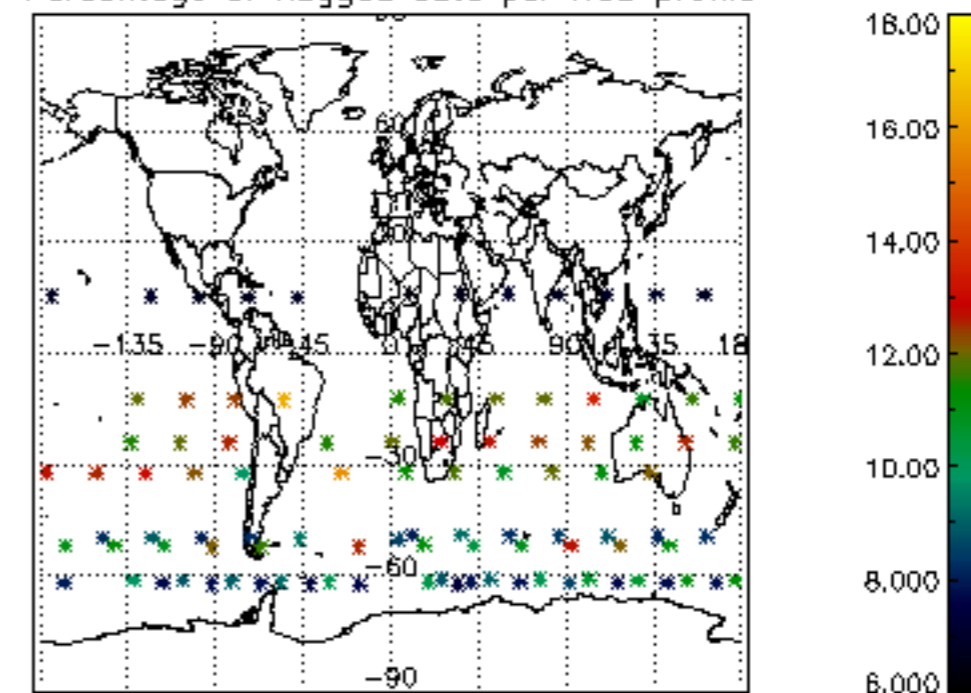
Percentage of flagged data per H2O profile

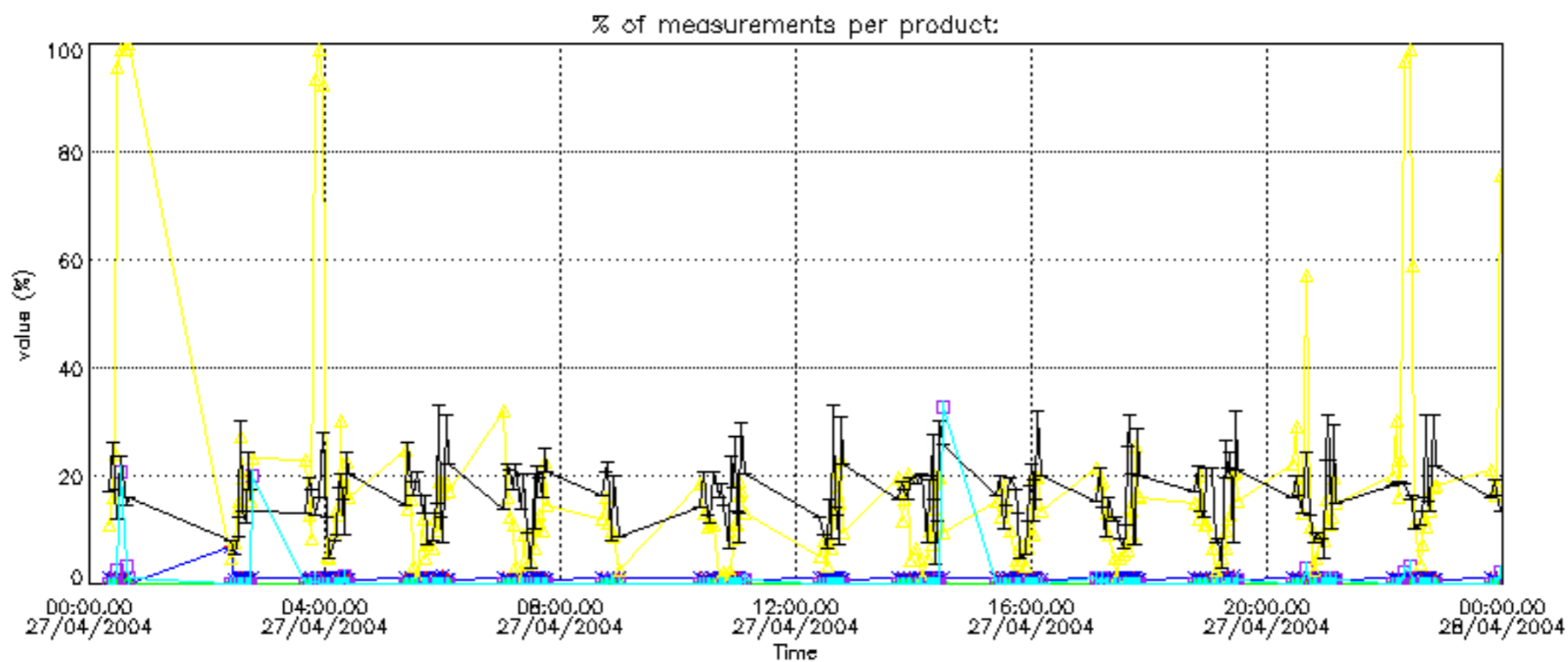


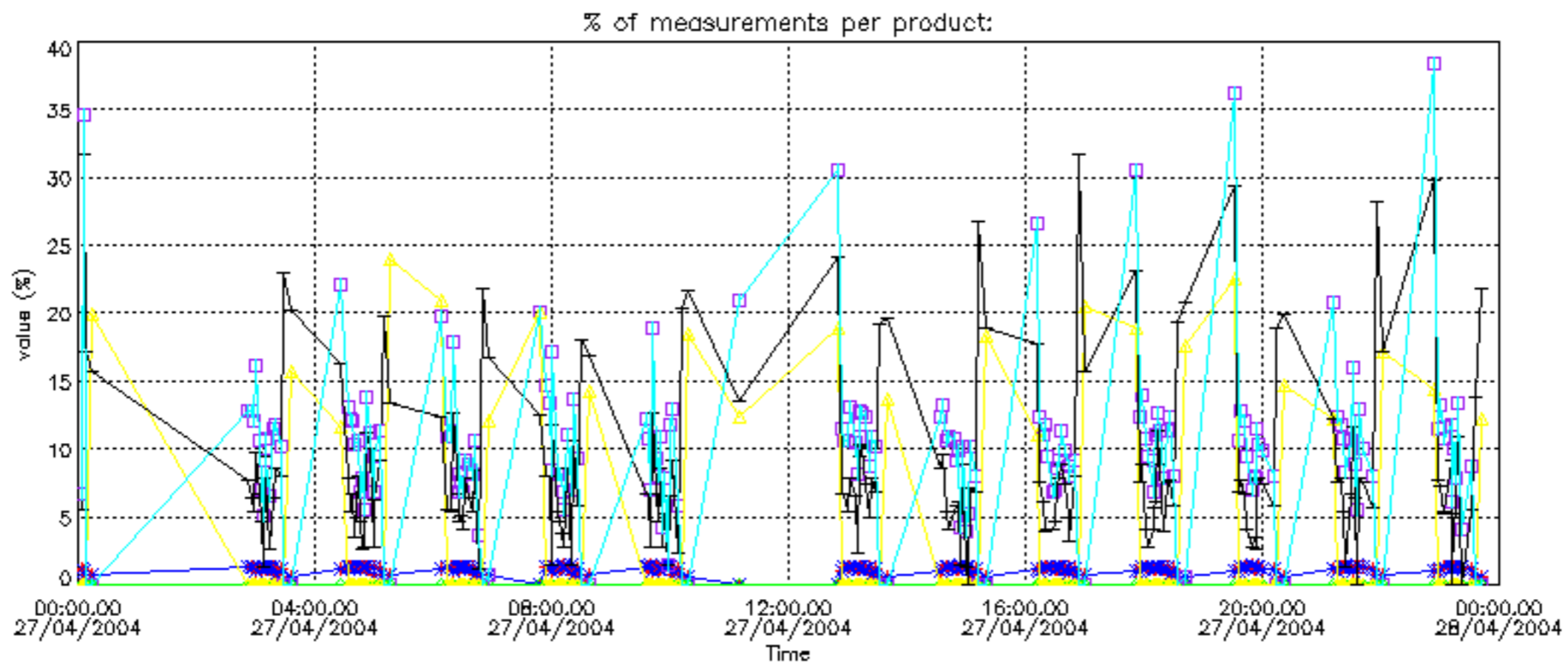
Percentage of flagged data per NO2 profile



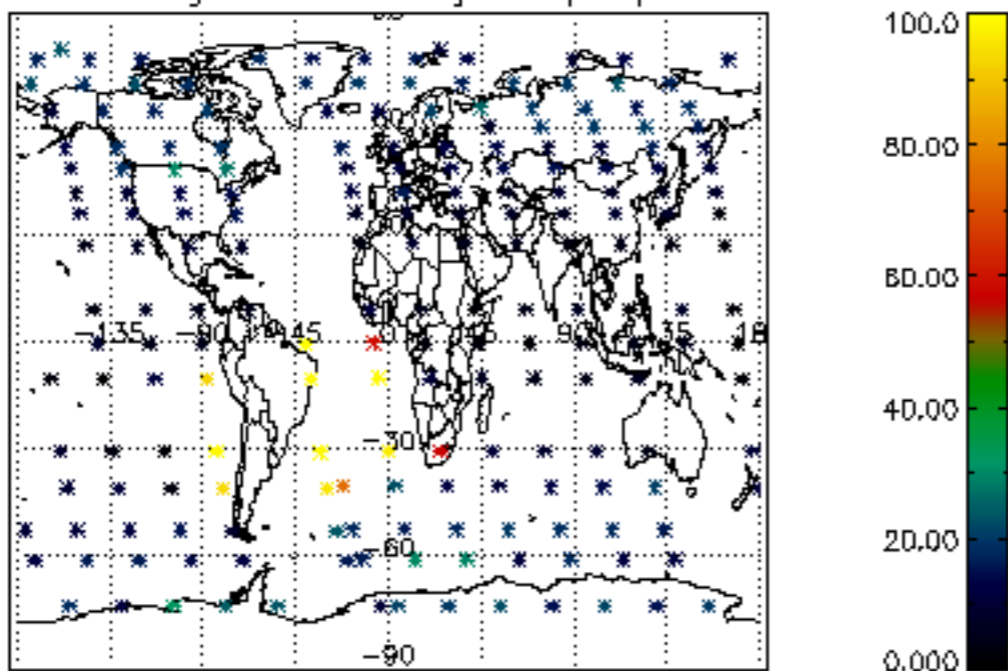
Percentage of flagged data per NO3 profile



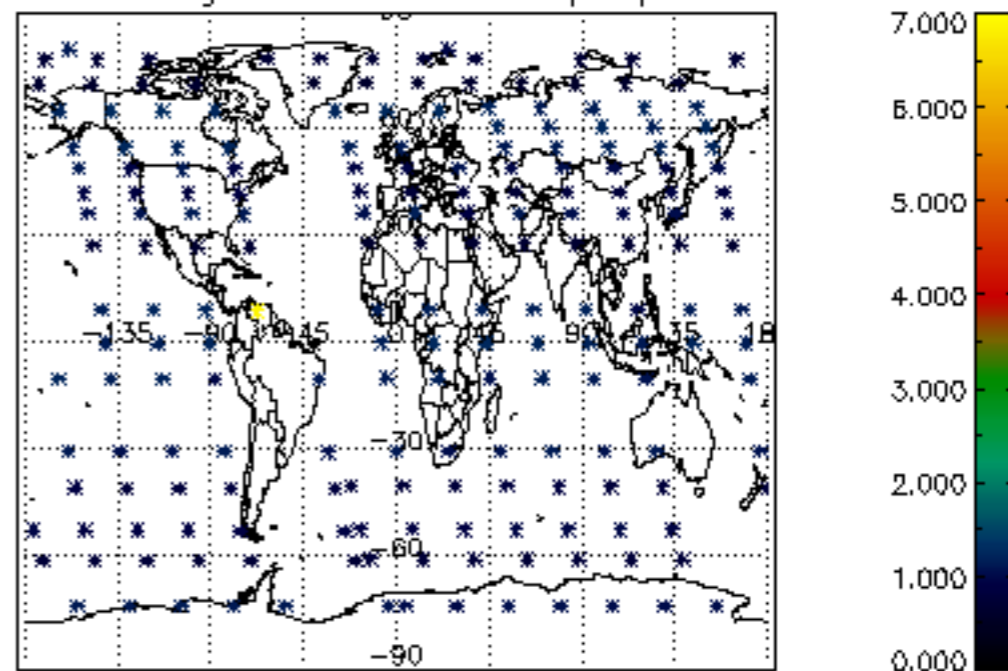




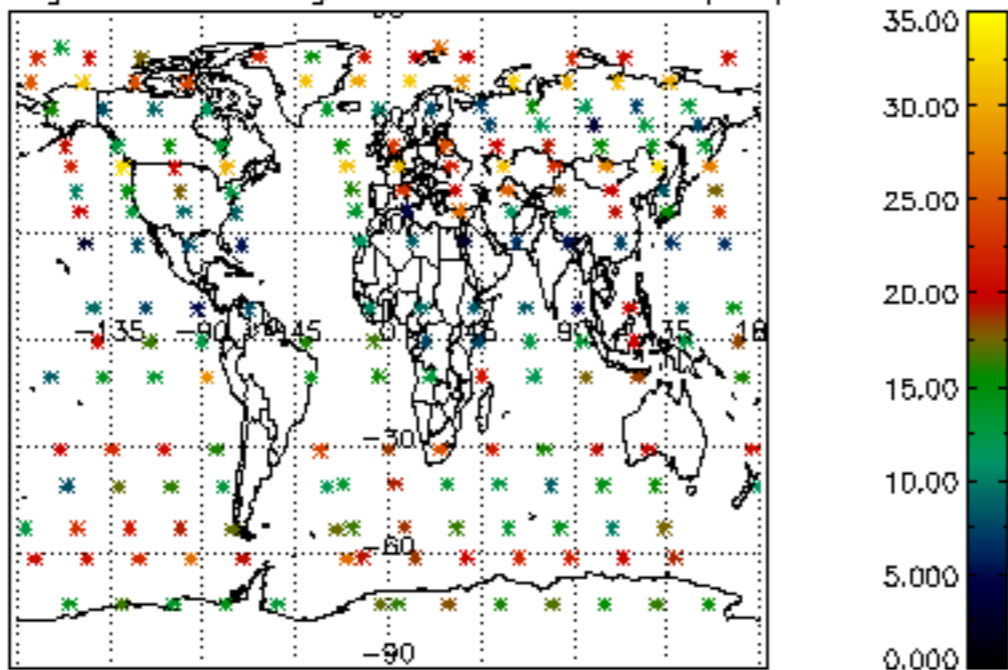
Percentage of cosmic ray hits per profile



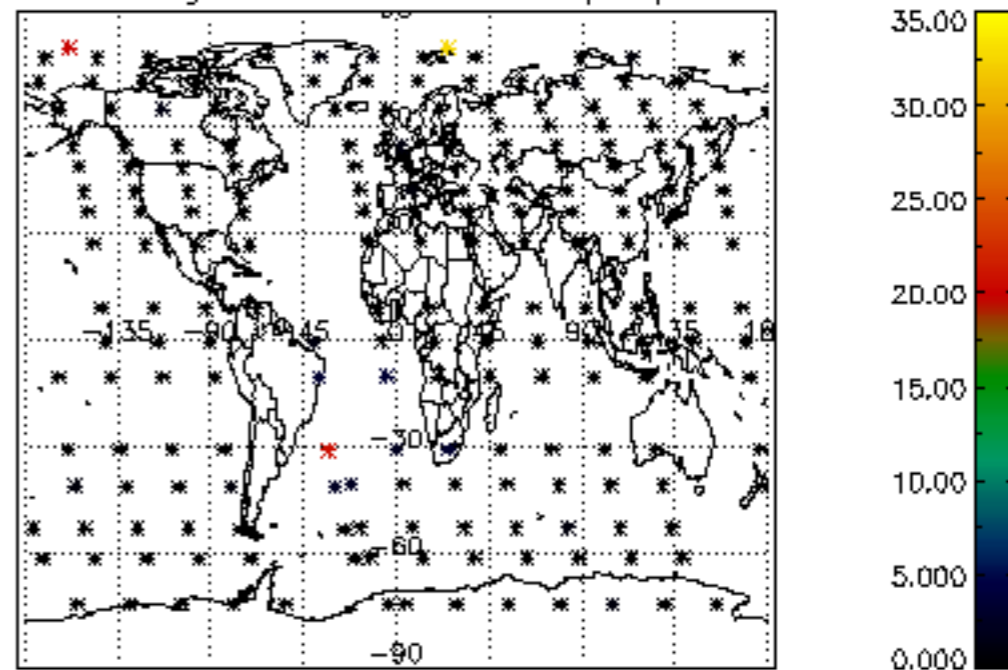
Percentage of datation errors per profile



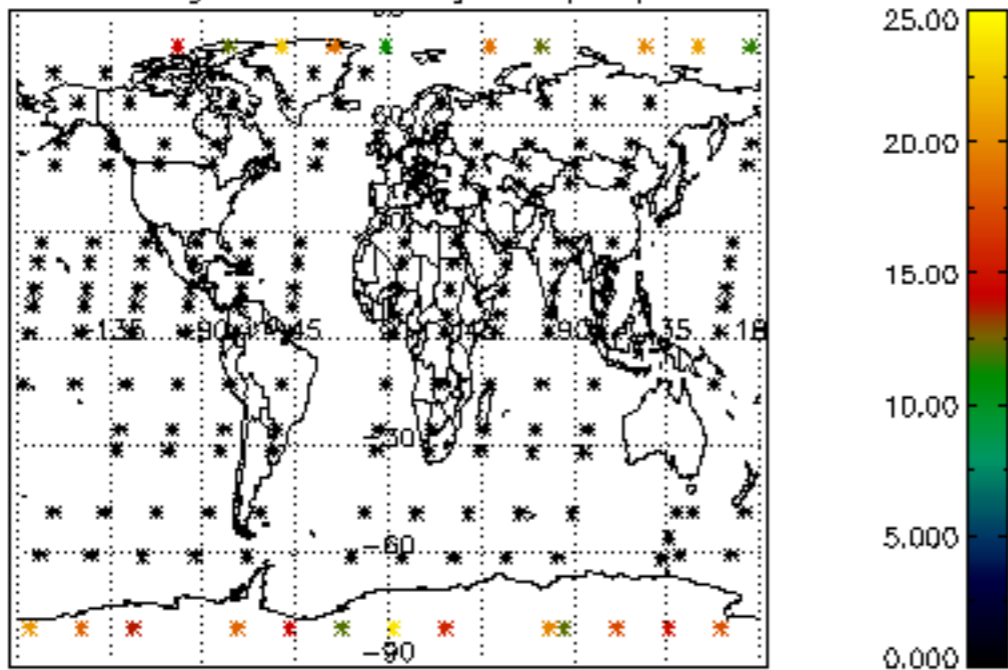
Percentage of star falling outside central band per profile



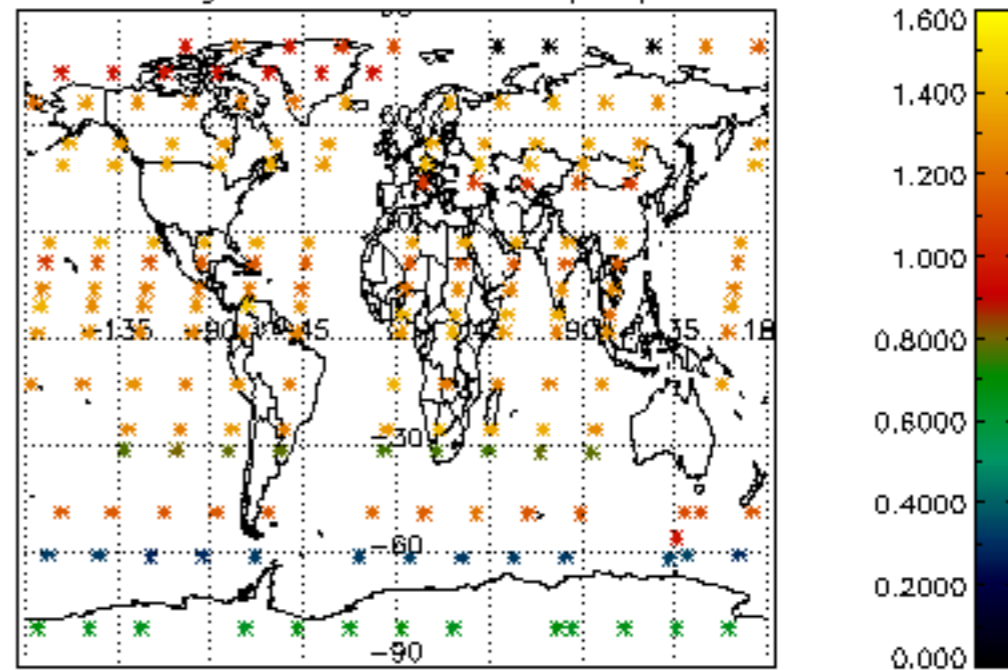
Percentage of saturation errors per profile



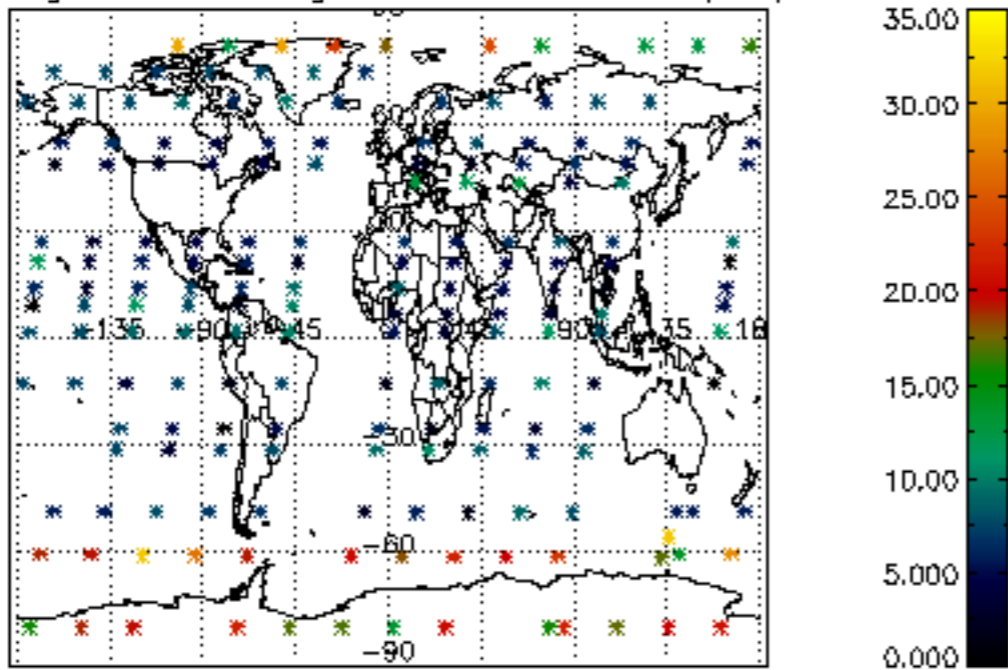
Percentage of cosmic ray hits per profile



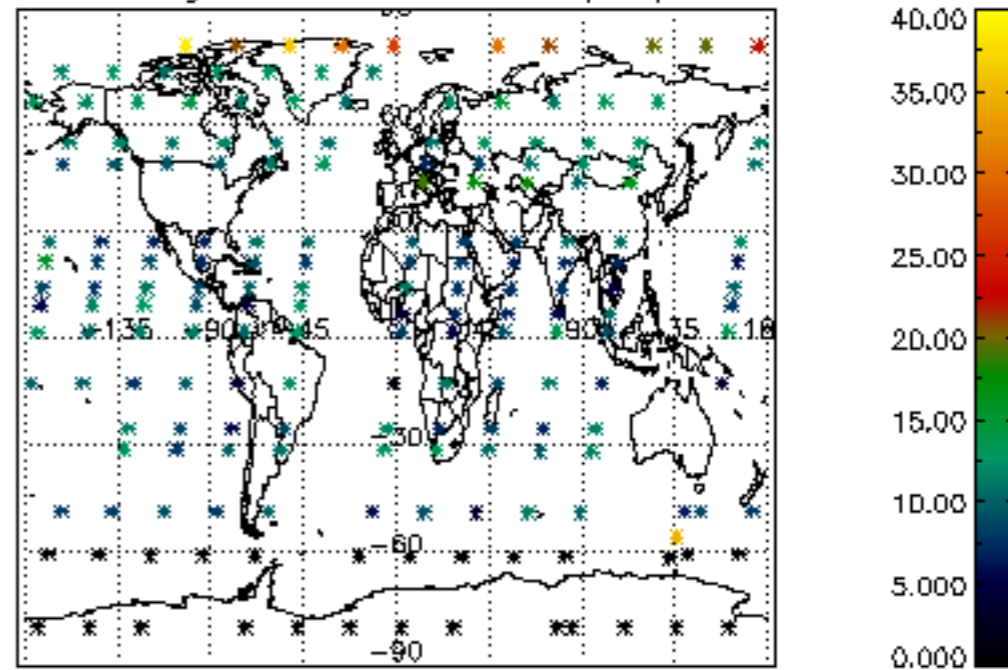
Percentage of datation errors per profile

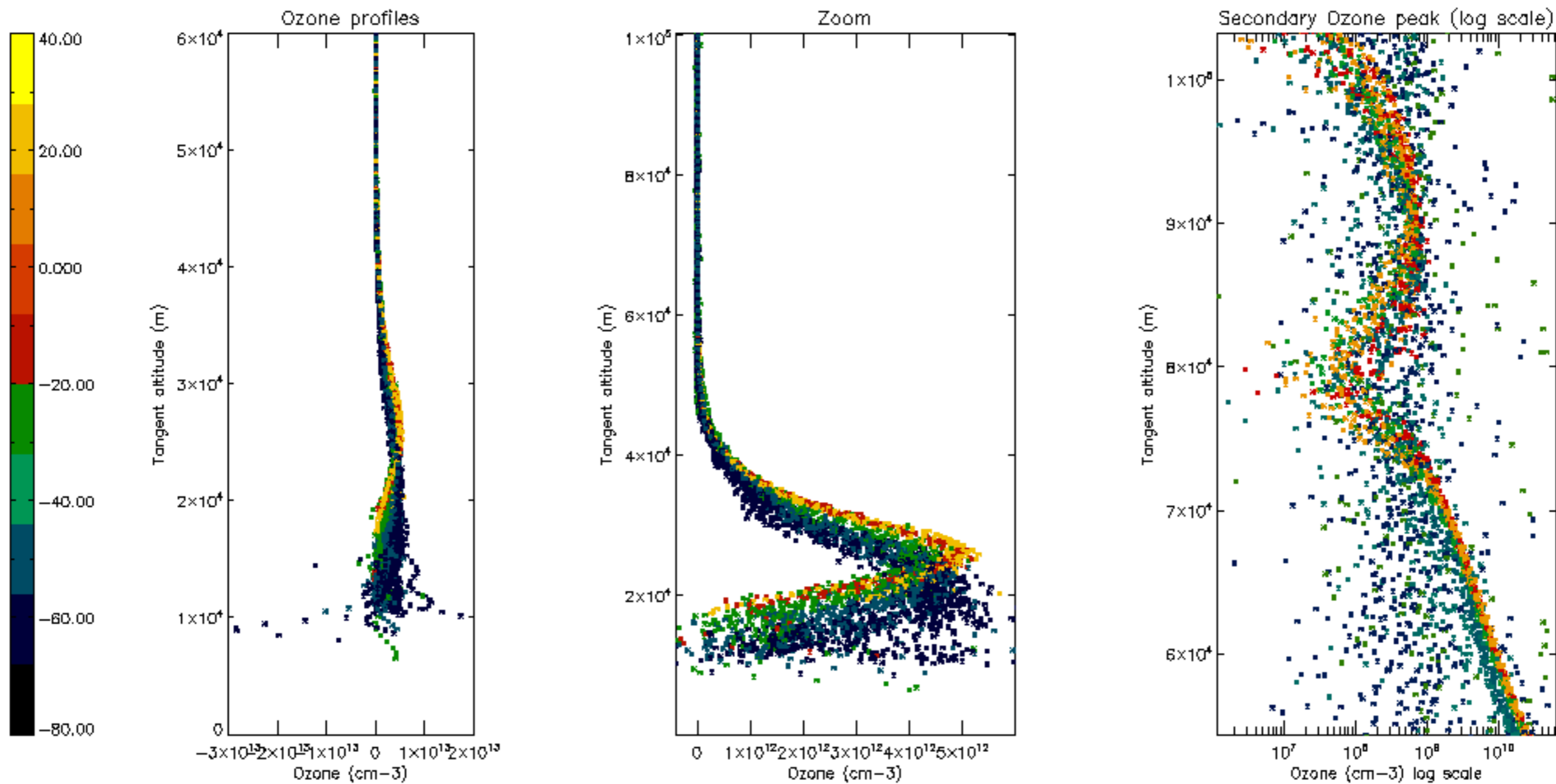


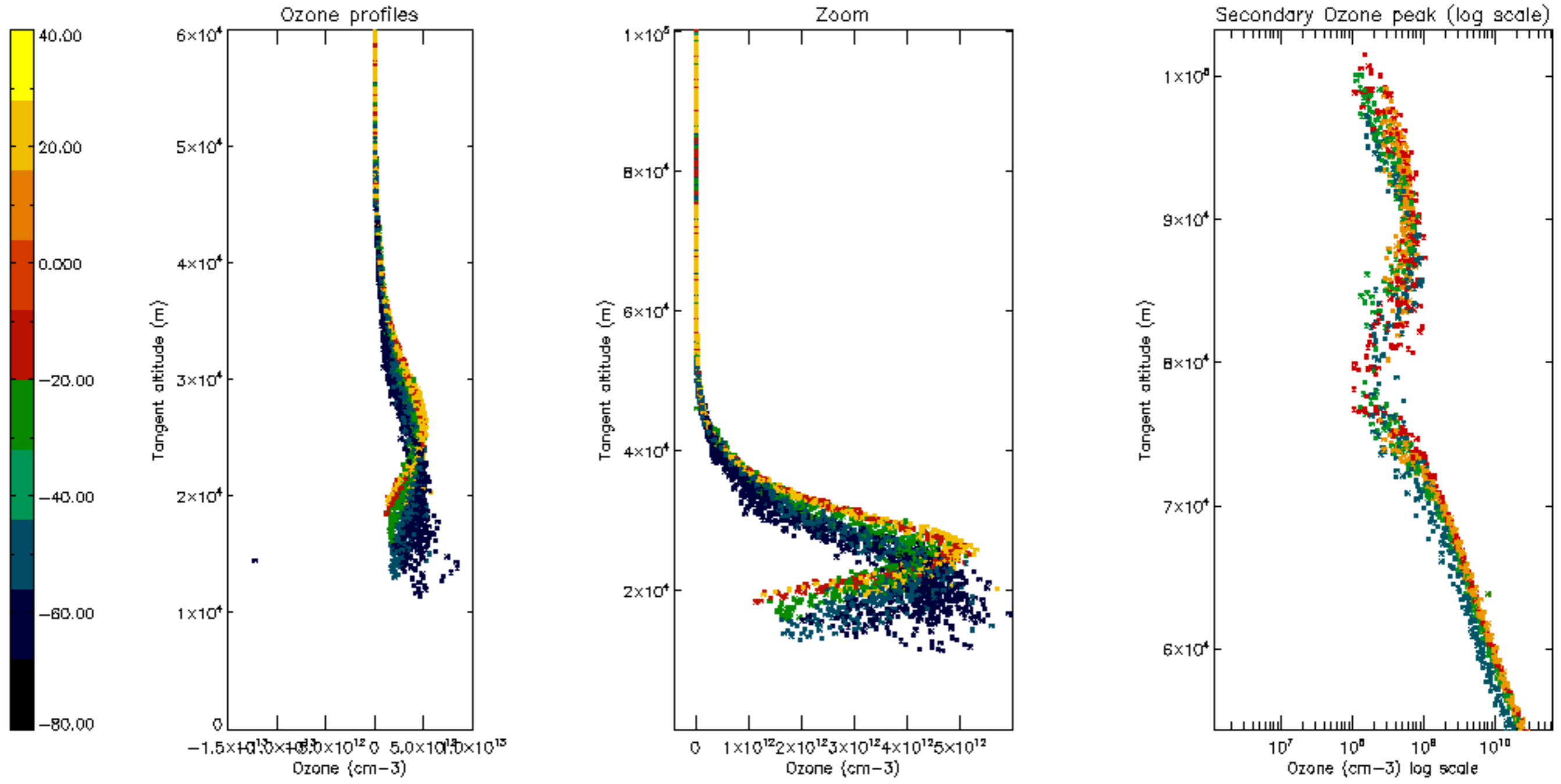
Percentage of star falling outside central band per profile

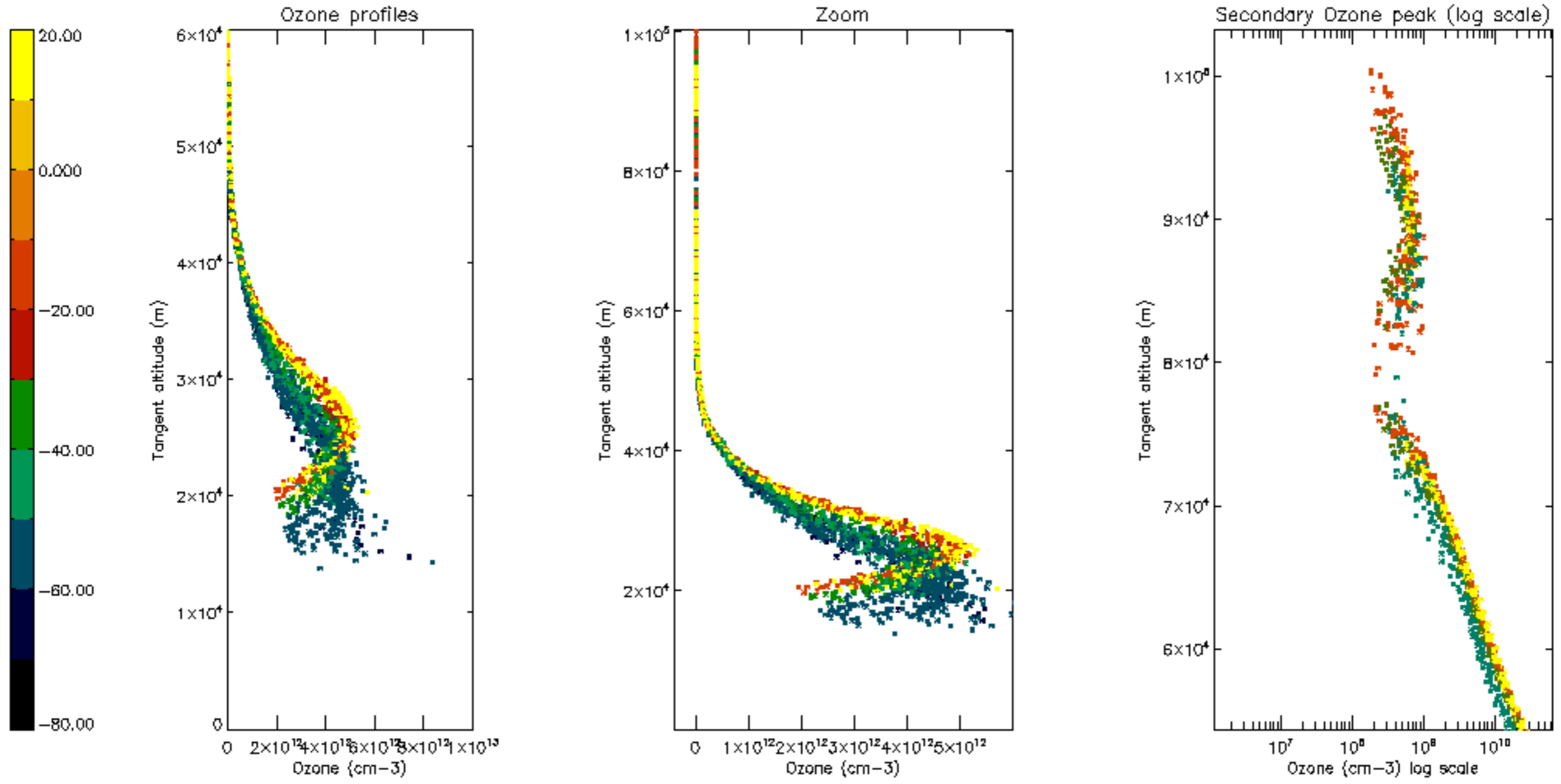


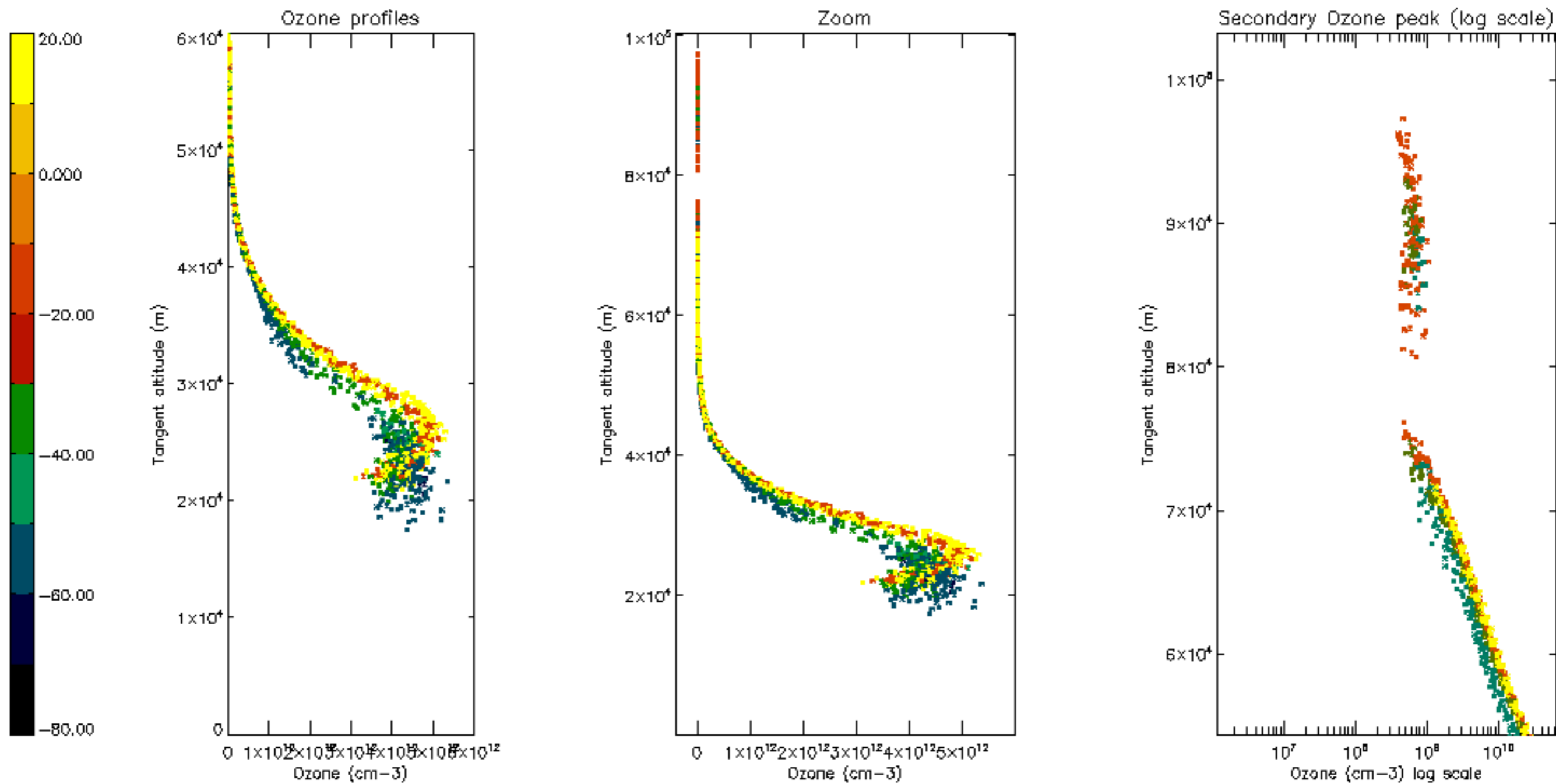
Percentage of saturation errors per profile

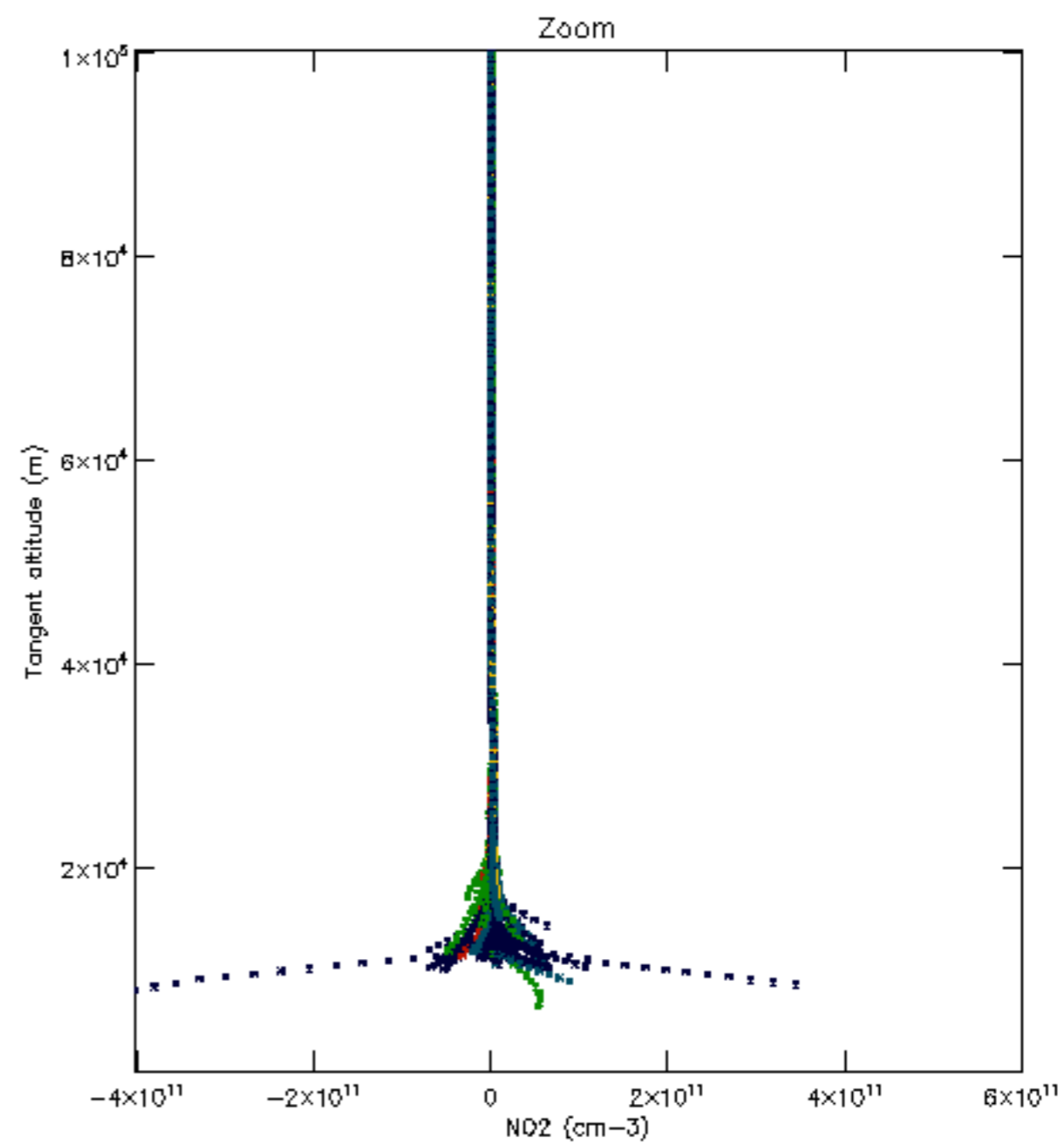
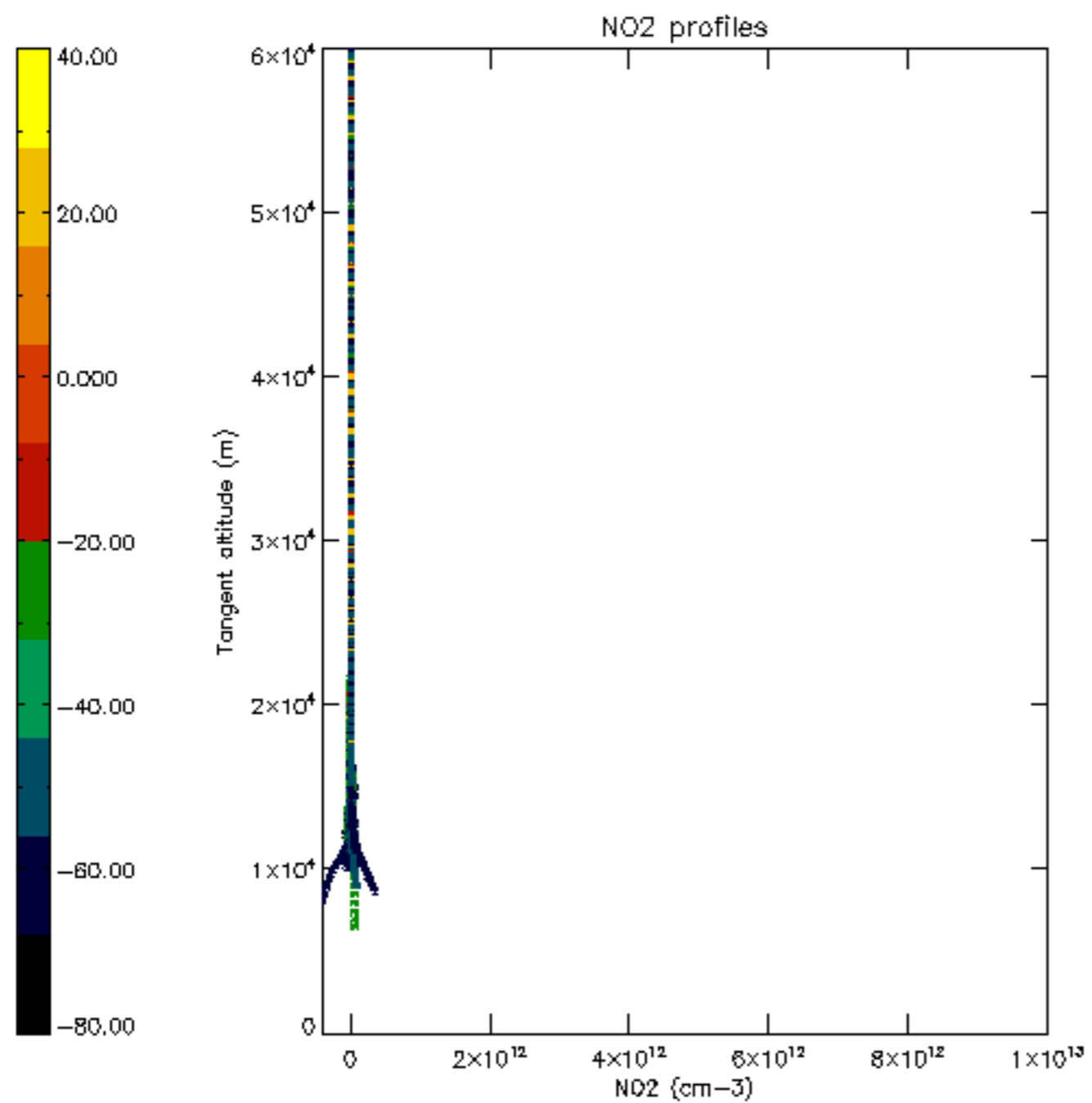


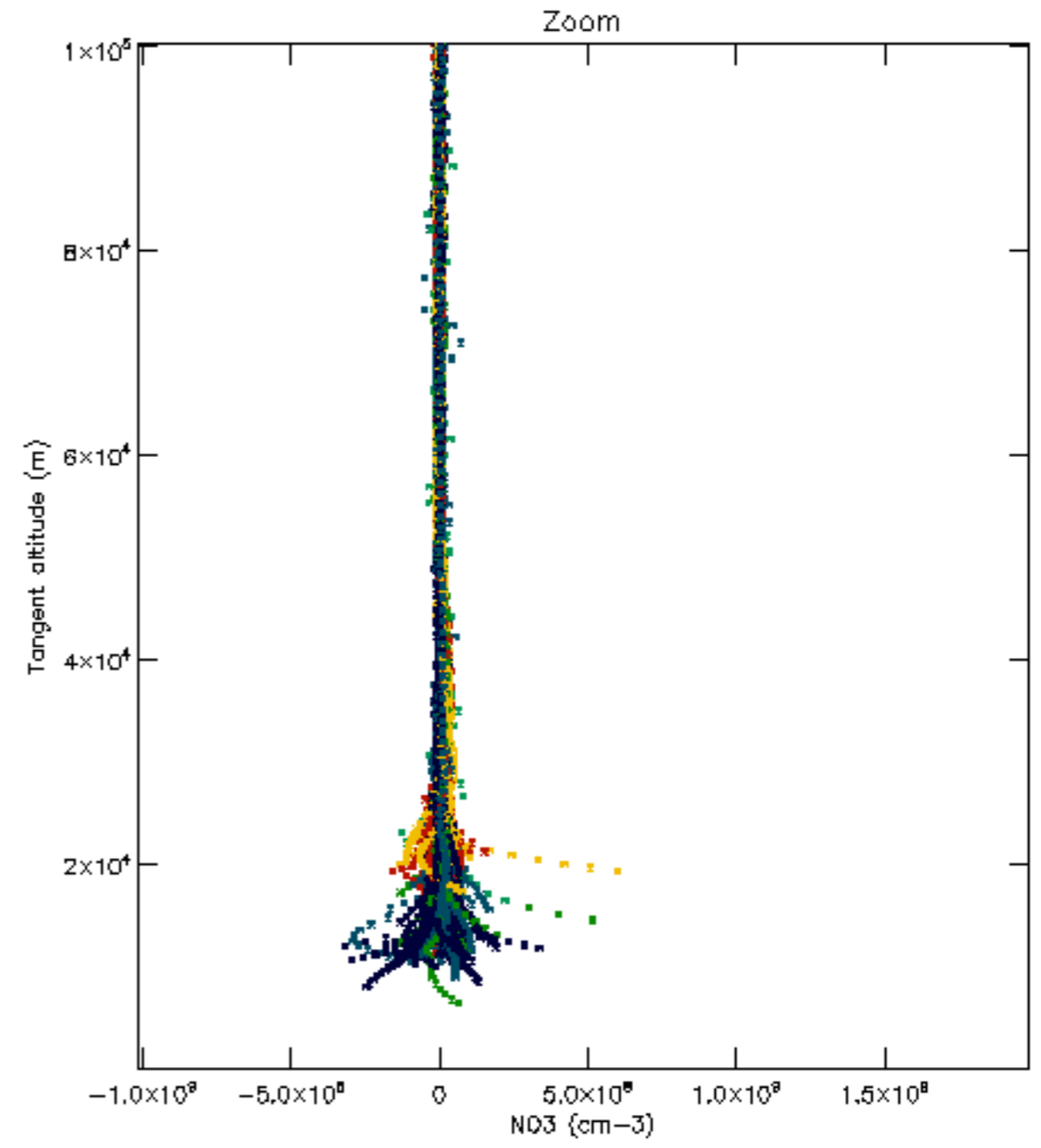
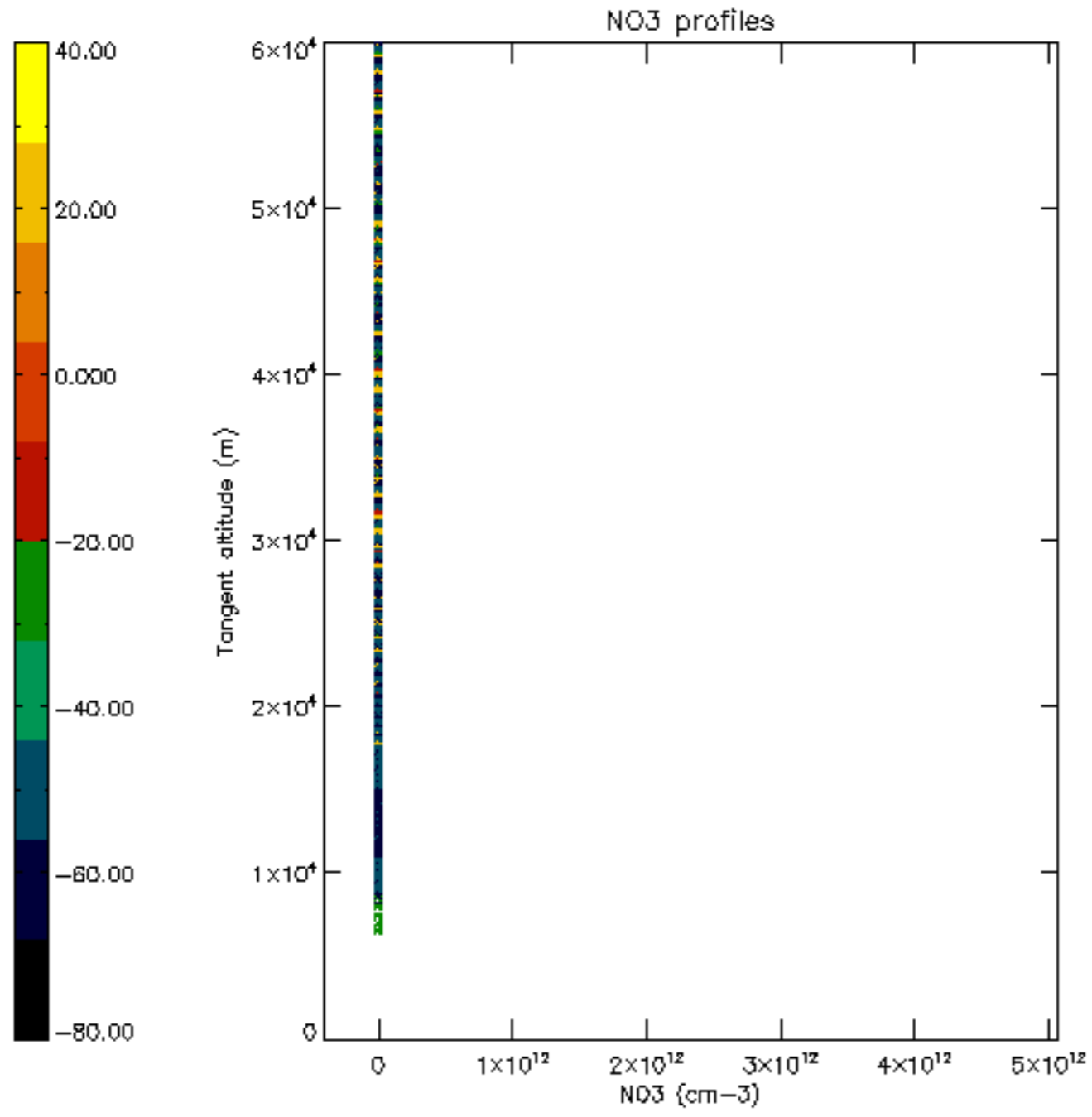


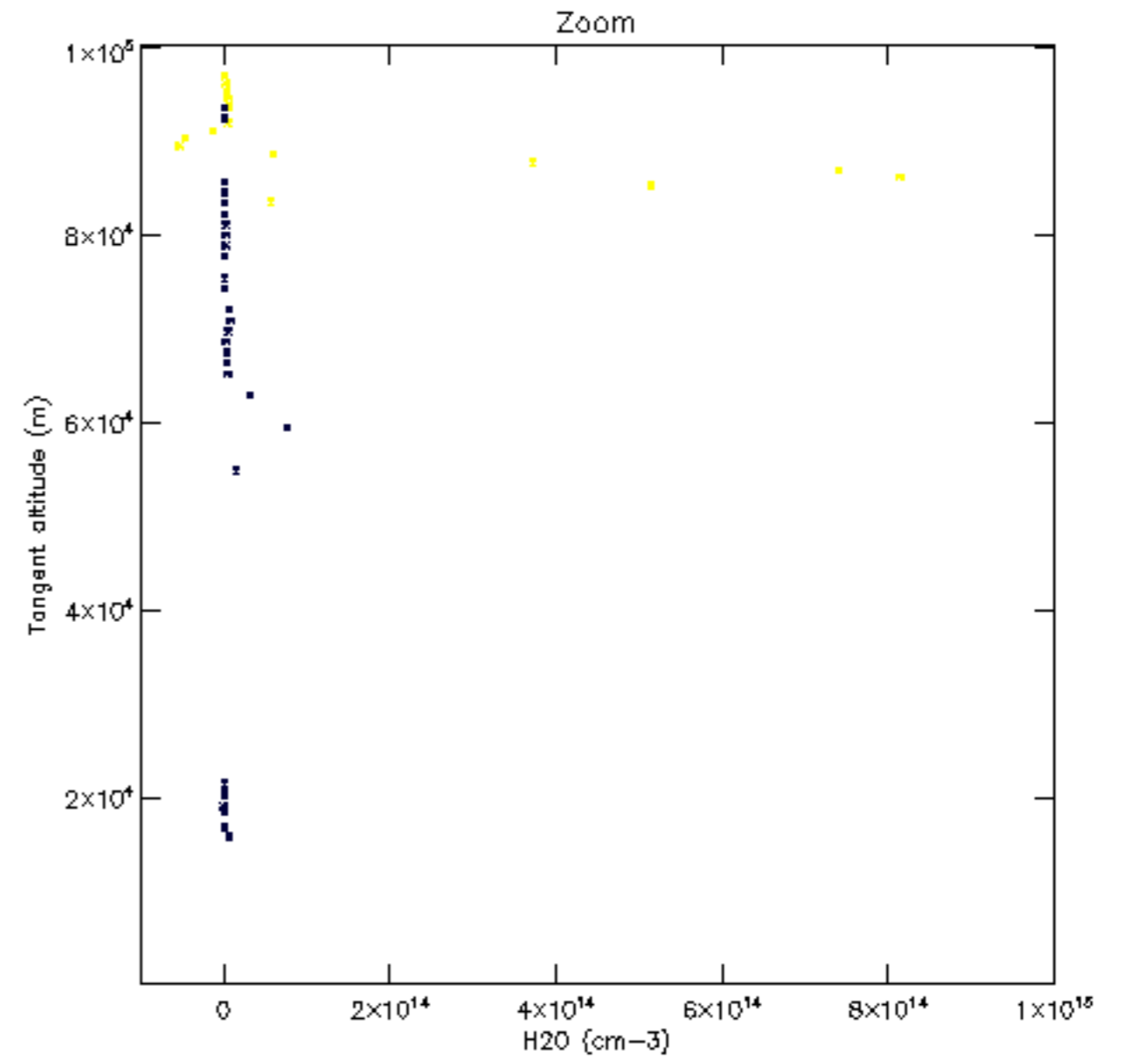
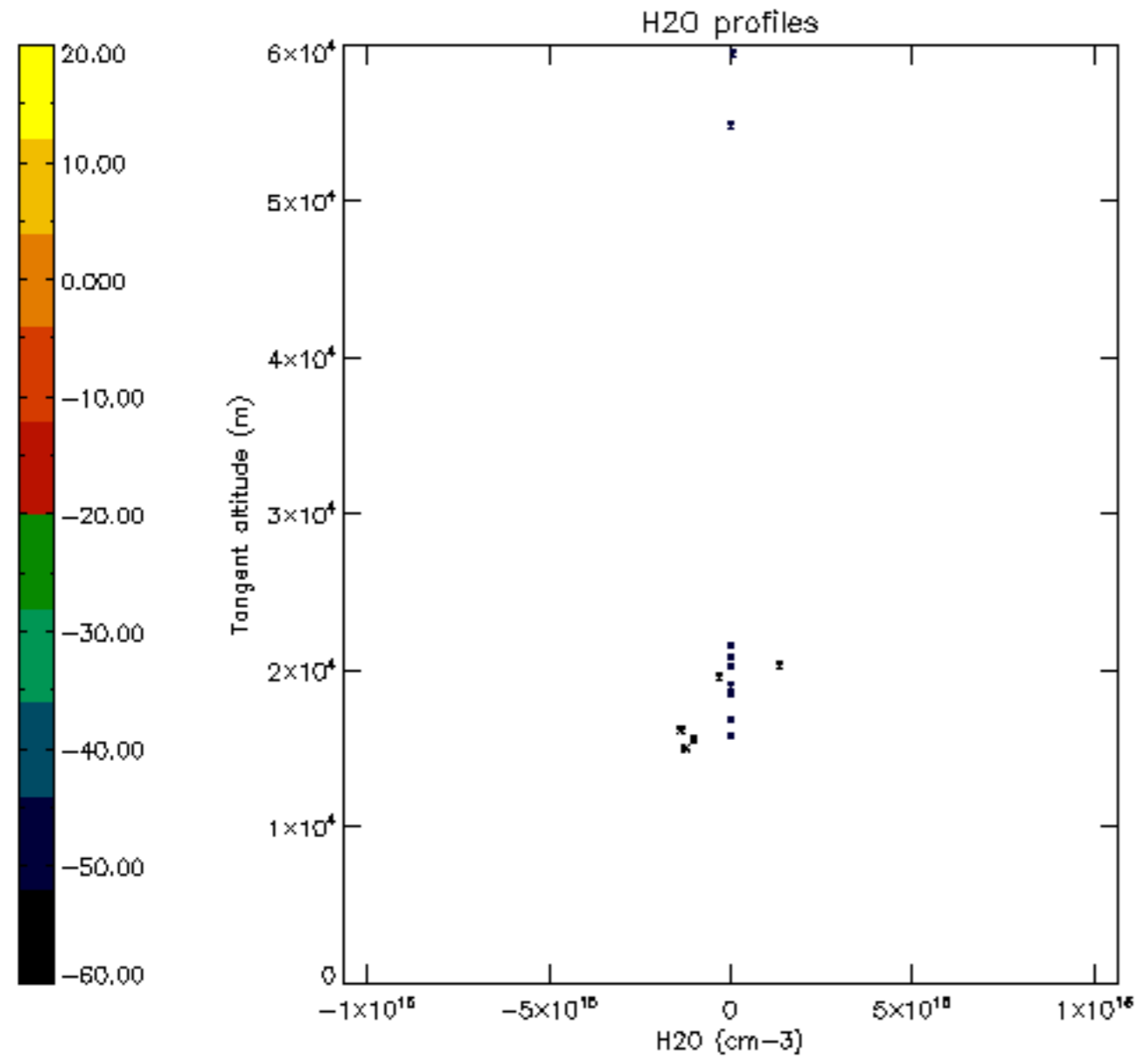


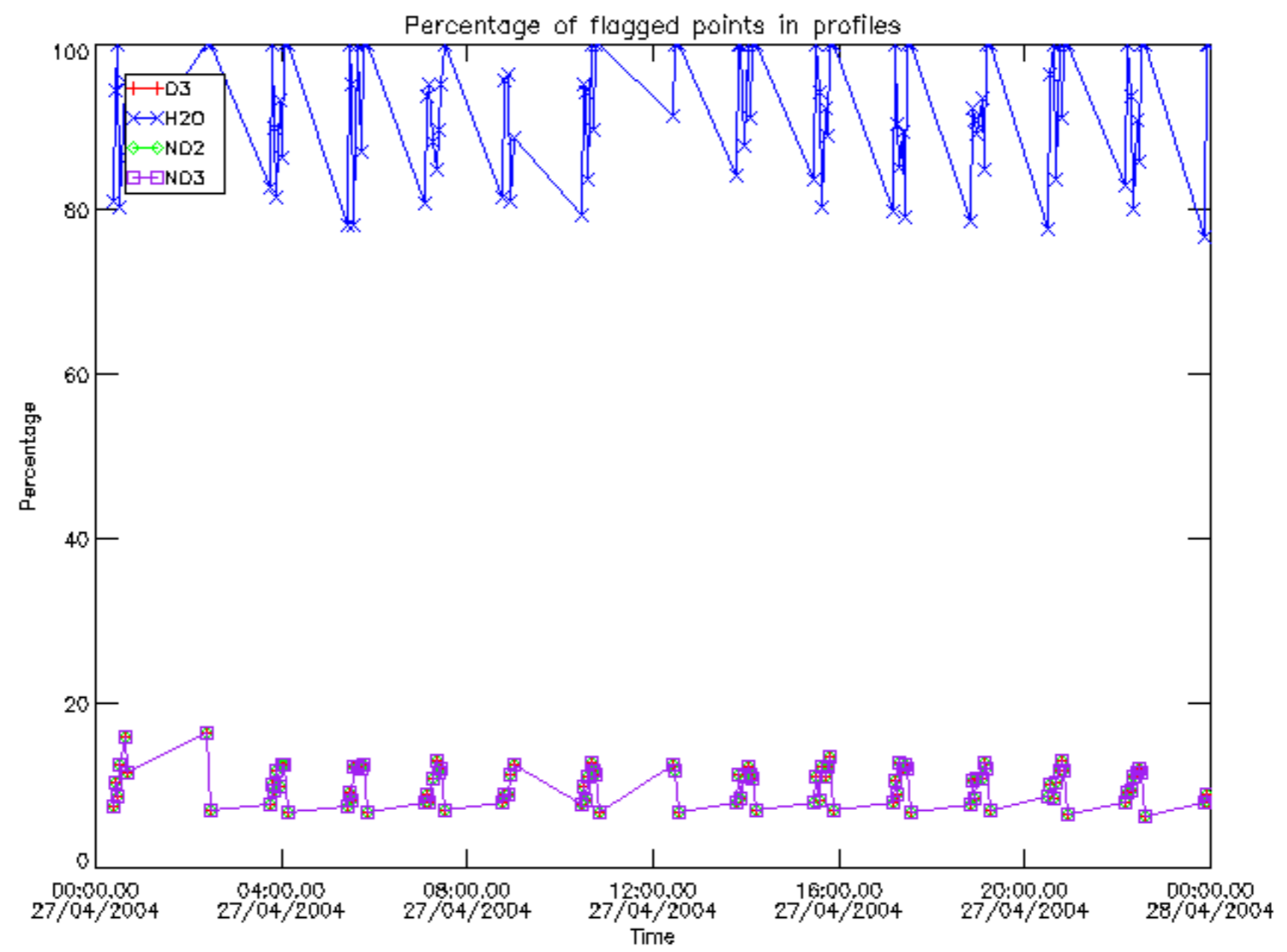




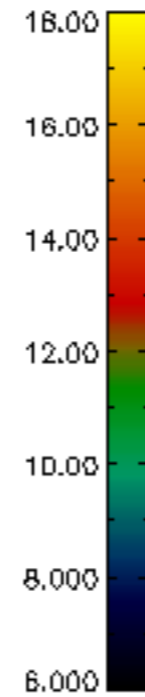
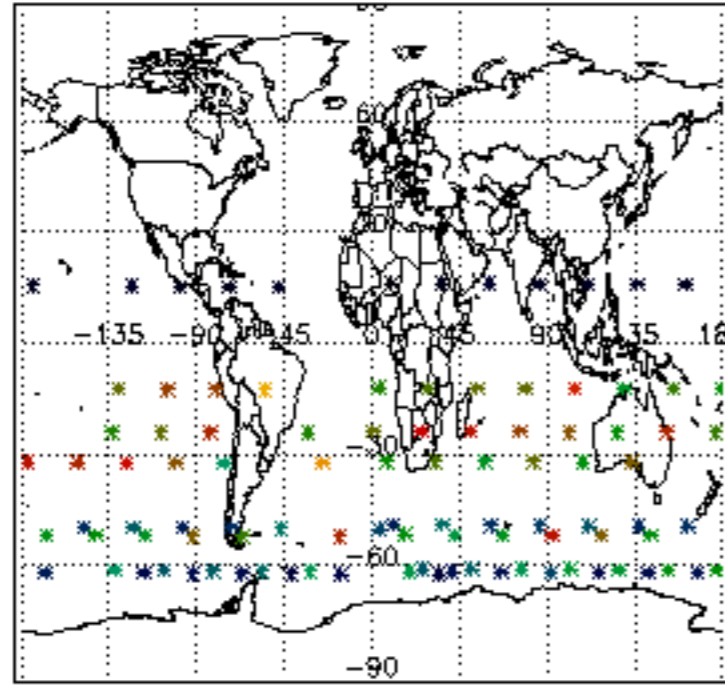




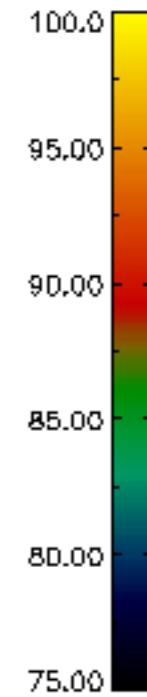
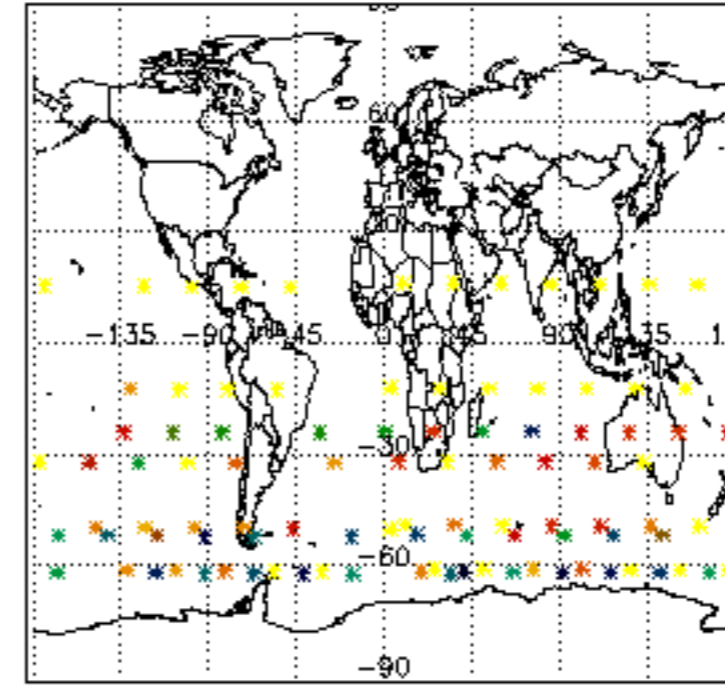




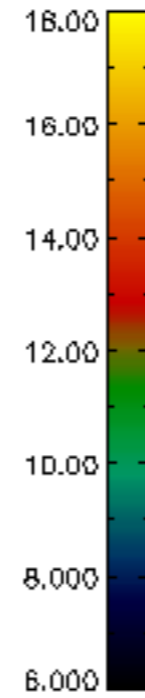
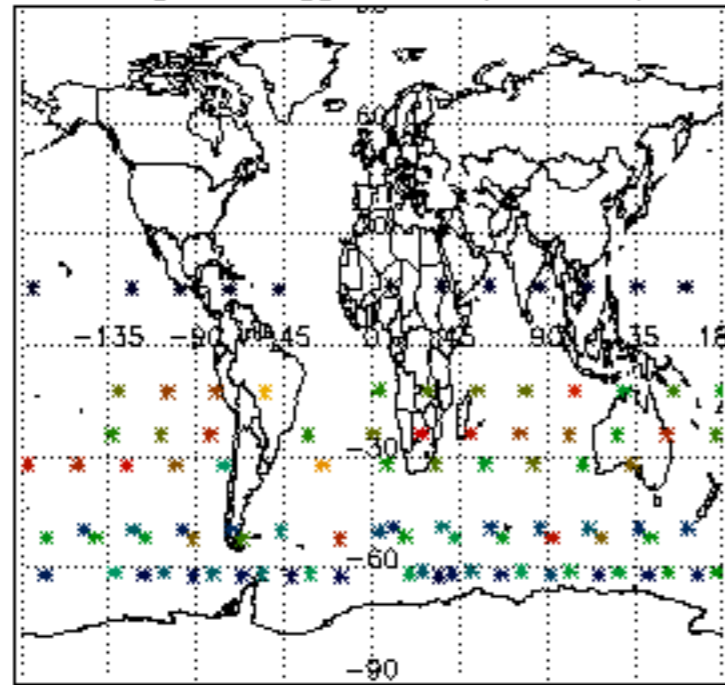
Percentage of flagged data per D3 profile



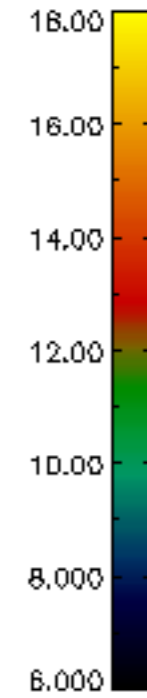
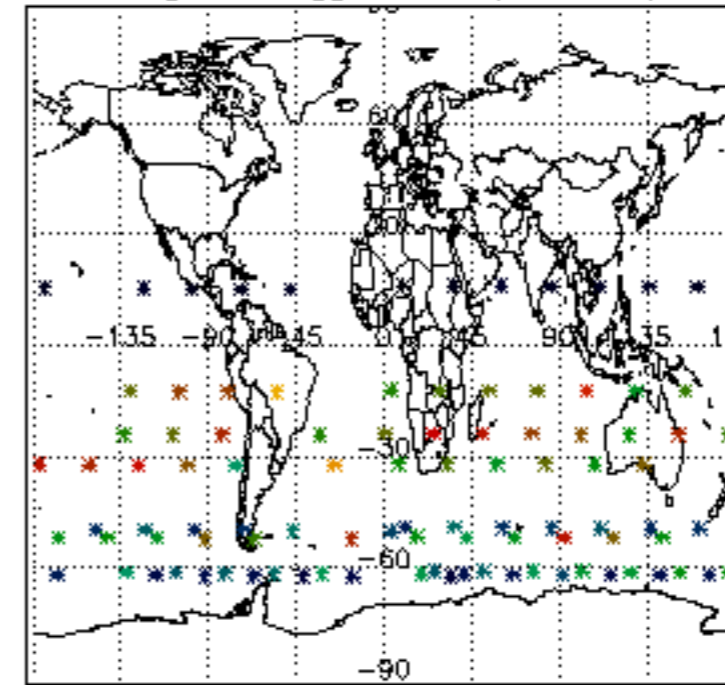
Percentage of flagged data per H2O profile

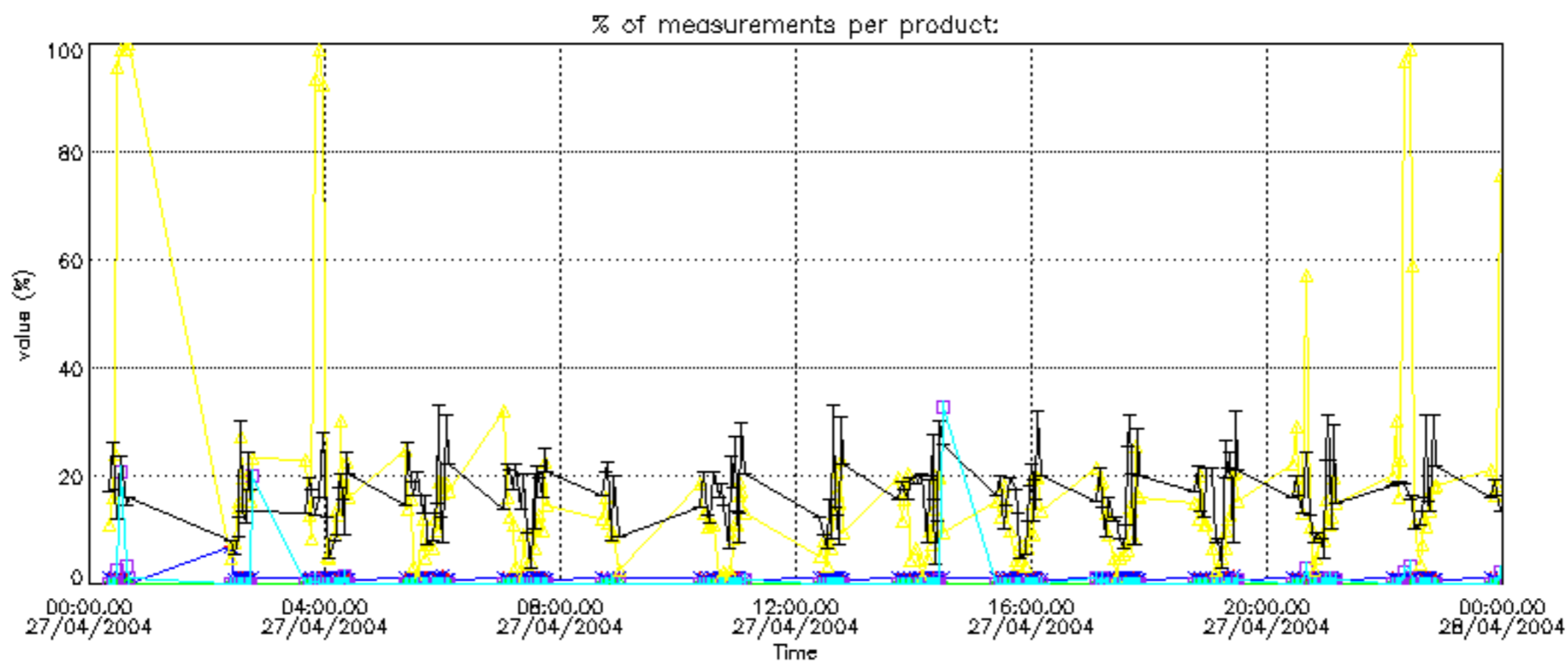


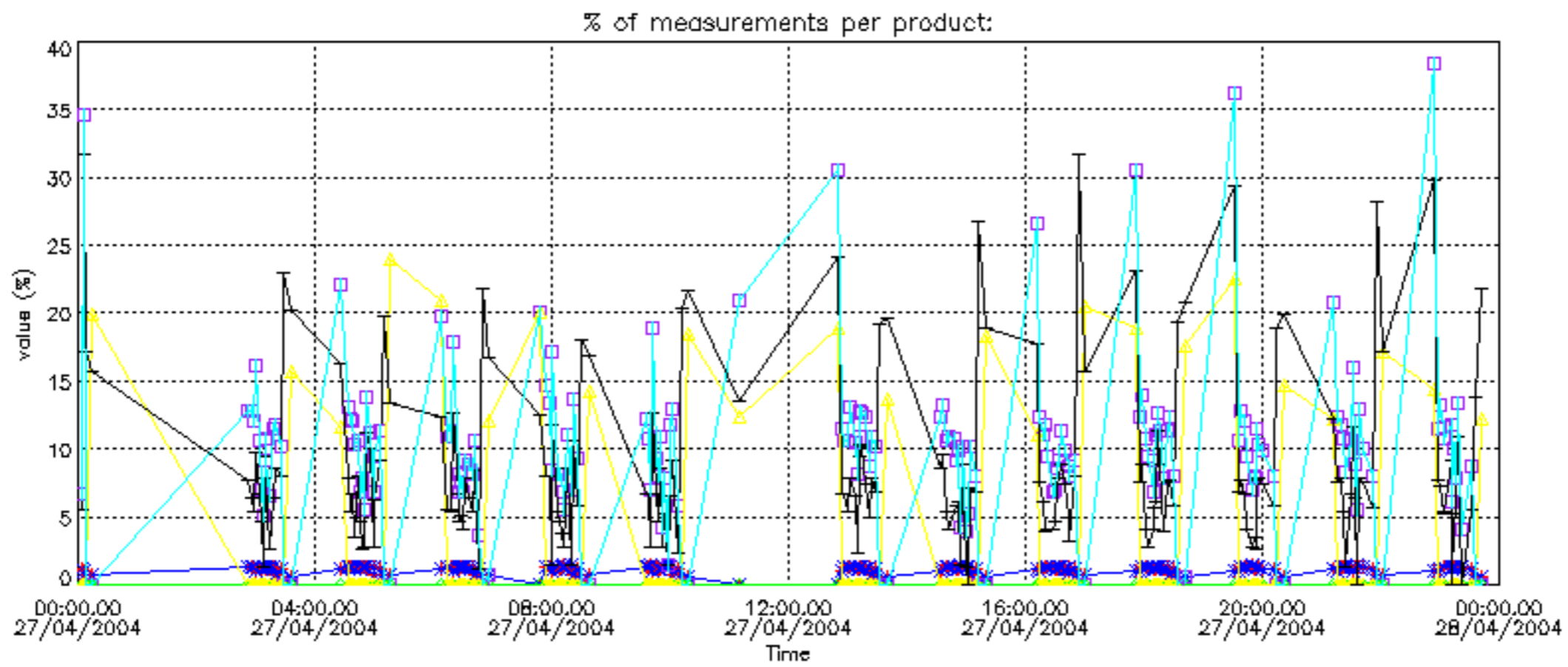
Percentage of flagged data per NO2 profile



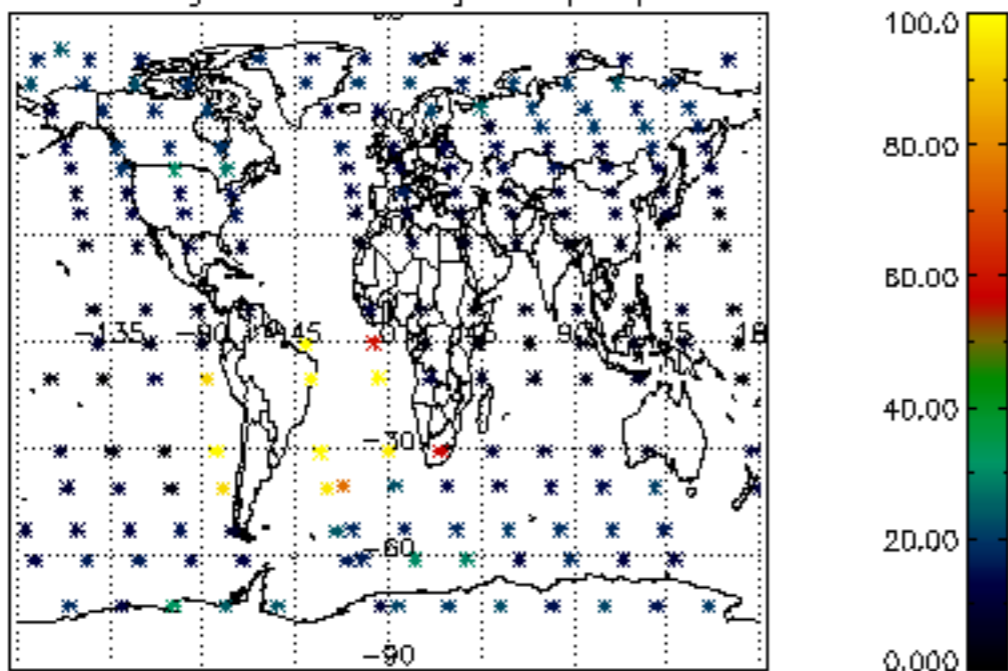
Percentage of flagged data per NO3 profile



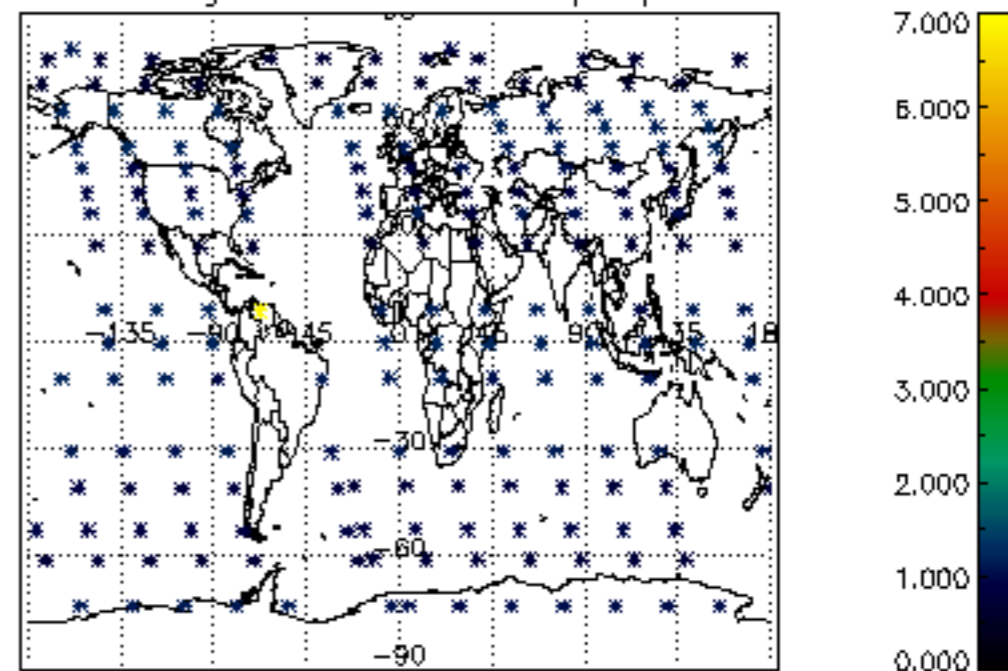




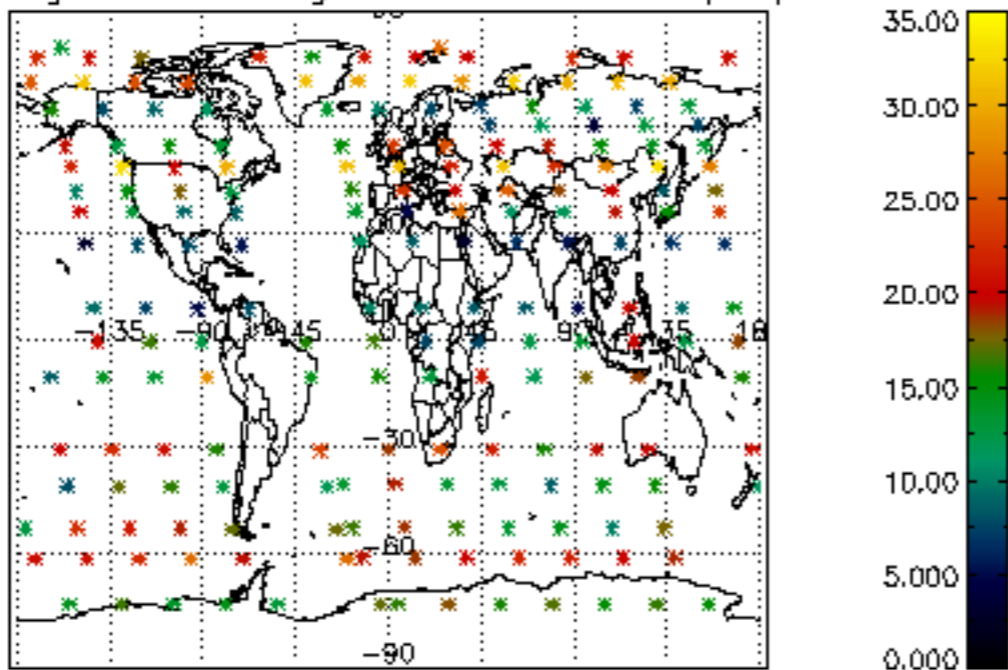
Percentage of cosmic ray hits per profile



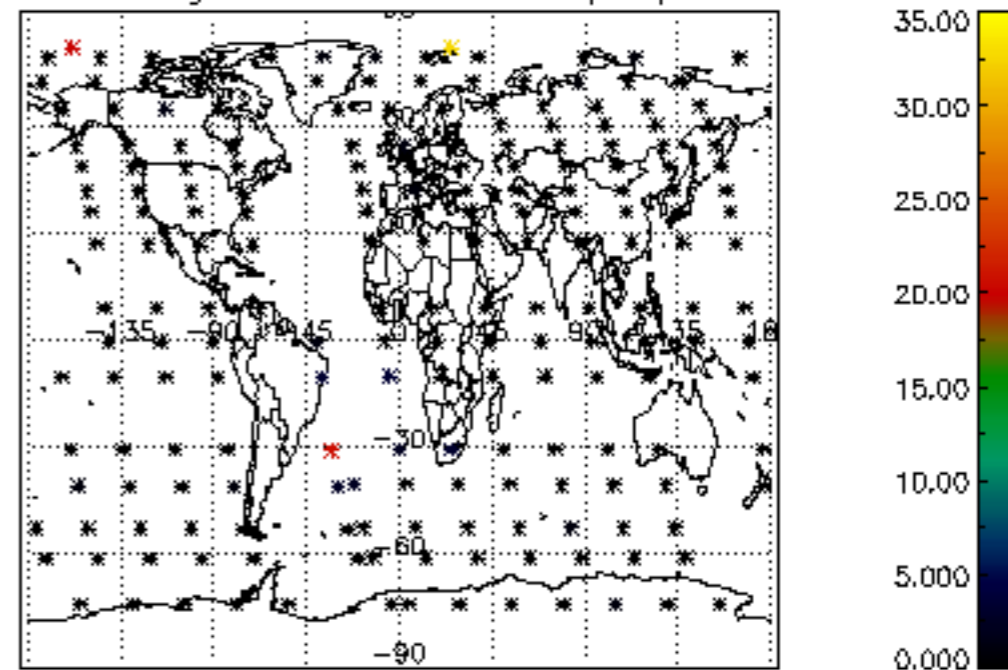
Percentage of datation errors per profile



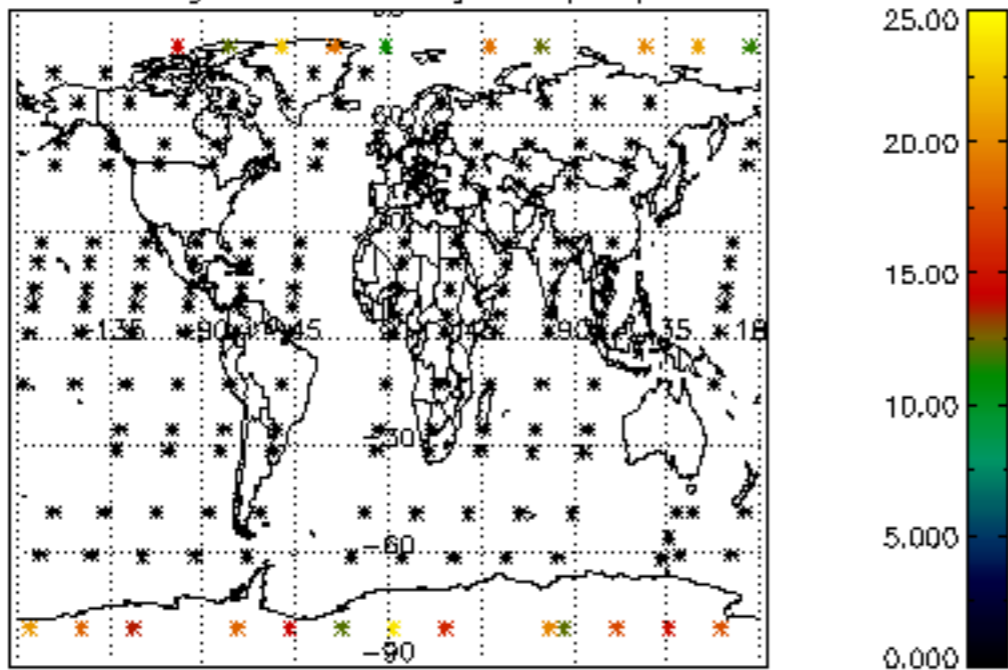
Percentage of star falling outside central band per profile



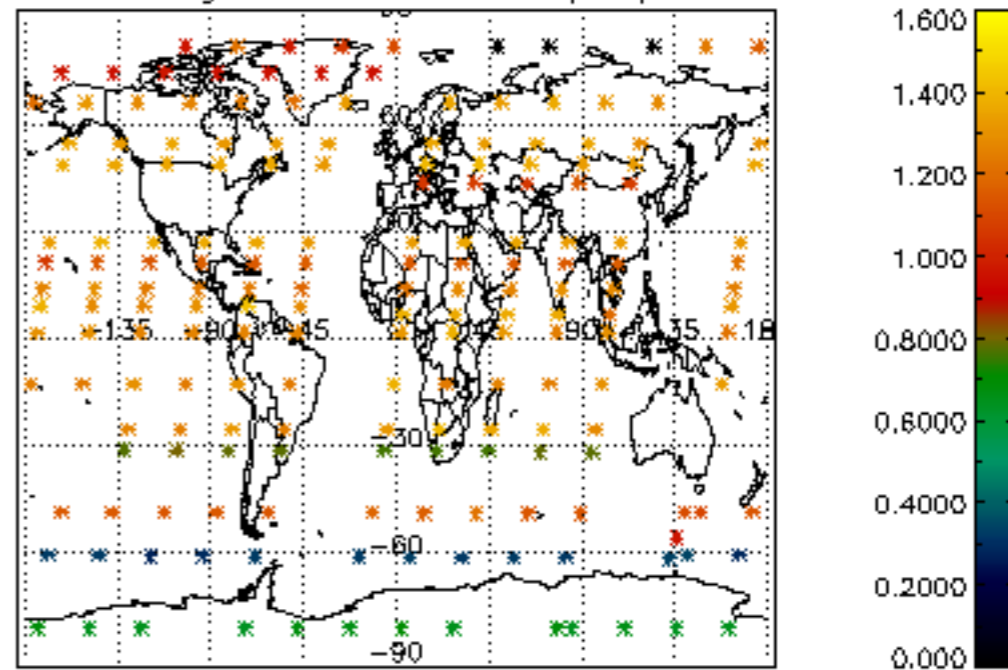
Percentage of saturation errors per profile



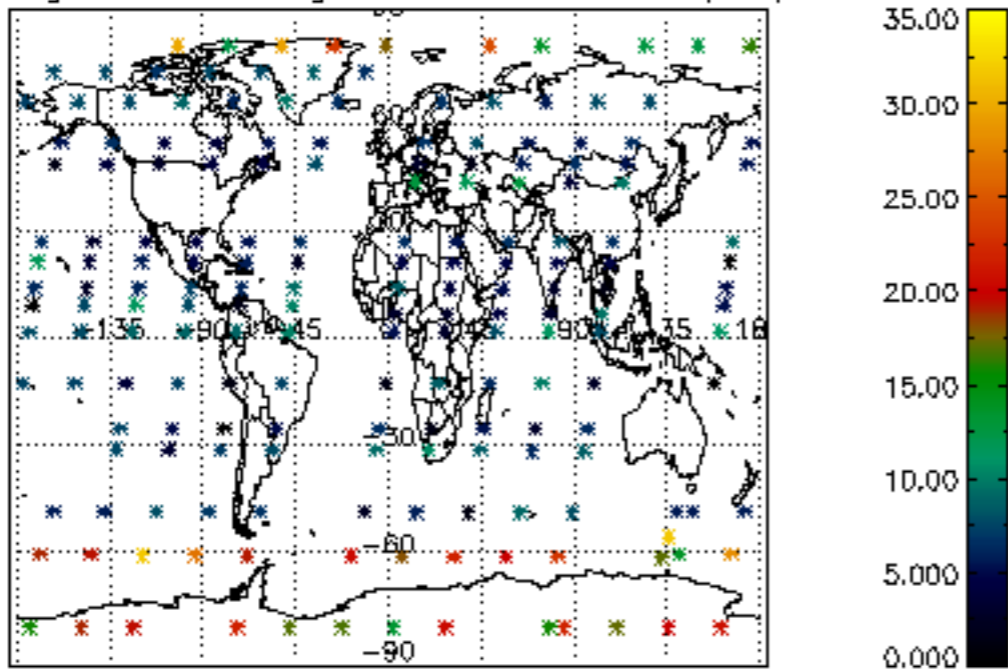
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

