

GOMOS Level 2 Daily Report

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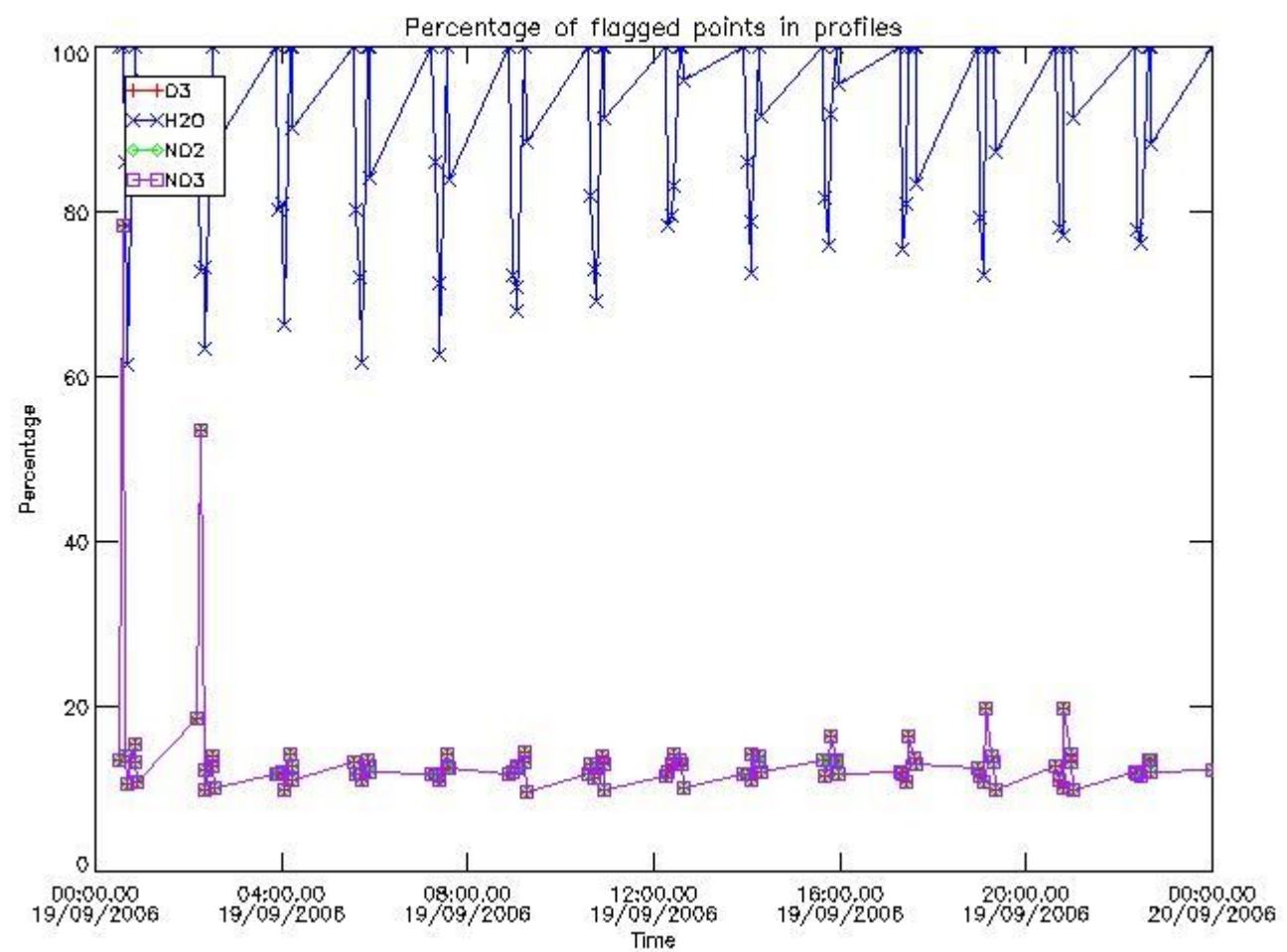
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220	GOM_NL__2PRFIN20060919_214455_000000362051_00215_23816_1849.N1	19-SEP-2006 21:44:55	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23816	No
221	GOM_NL__2PRFIN20060919_215226_000000352051_00215_23816_1850.N1	19-SEP-2006 21:52:26	Bright	35.000	36	50Alp UMa	1.8000	6300.0	70	23816	No
222	GOM_NL__2PRFIN20060919_215353_000000352051_00215_23816_1851.N1	19-SEP-2006 21:53:53	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	23816	No
223	GOM_NL__2PRFIN20060919_221901_000000432051_00215_23816_1852.N1	19-SEP-2006 22:19:01	Dark	42.500	132	15Rho Pup	2.8030	6900.0	85	23816	No
224	GOM_NL__2PRFIN20060919_222238_000000442051_00215_23816_1853.N1	19-SEP-2006 22:22:38	Dark	43.500	65	Lam Vel	2.2040	4400.0	87	23816	No
225	GOM_NL__2PRFIN20060919_222729_000000452051_00215_23816_1854.N1	19-SEP-2006 22:27:29	Dark	44.500	41	Eps Car	1.8600	4100.0	89	23816	No
226	GOM_NL__2PRFIN20060919_223801_000000382051_00216_23817_1838.N1	19-SEP-2006 22:38:01	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	23817	No
227	GOM_NL__2PRFIN20060919_223924_000000382051_00216_23817_1839.N1	19-SEP-2006 22:39:24	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	23817	No
228	GOM_NL__2PRFIN20060919_224050_000000432051_00216_23817_1840.N1	19-SEP-2006 22:40:50	Dark	42.500	9	Alp Eri	0.45300	24000.	85	23817	No
229	GOM_NL__2PRFIN20060919_224657_000000462051_00216_23817_1841.N1	19-SEP-2006 22:46:57	Straylight	45.500	63	Bet Gru	2.1500	2800.0	91	23817	No
230	GOM_NL__2PRFIN20060919_225132_000000432051_00216_23817_1842.N1	19-SEP-2006 22:51:32	Straylight	43.000	18	24Alp PsA	1.1660	9700.0	86	23817	No
231	GOM_NL__2PRFIN20060919_225602_000000402051_00216_23817_1843.N1	19-SEP-2006 22:56:02	Twilight_stray	40.000	142	49Del Cap	2.8500	8900.0	80	23817	No
232	GOM_NL__2PRFIN20060919_230013_000000372051_00216_23817_1844.N1	19-SEP-2006 23:00:13	Bright	36.500	162	34Alp Aqr	2.9440	5350.0	73	23817	No
233	GOM_NL__2PRFIN20060919_230315_000000372051_00216_23817_1845.N1	19-SEP-2006 23:03:15	Bright	37.000	61	8Eps Peg	2.1000	3900.0	74	23817	No
234	GOM_NL__2PRFIN20060919_231345_000000372051_00216_23817_1846.N1	19-SEP-2006 23:13:45	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	23817	No
235	GOM_NL__2PRFIN20060919_231756_000000422051_00216_23817_1847.N1	19-SEP-2006 23:17:56	Bright	42.000	89	5Alp Cep	2.4510	8000.0	84	23817	No
236	GOM_NL__2PRFIN20060919_232531_000000332051_00216_23817_1848.N1	19-SEP-2006 23:25:31	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	23817	No
237	GOM_NL__2PRFIN20060919_233302_000000382051_00216_23817_1849.N1	19-SEP-2006 23:33:02	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	23817	No
238	GOM_NL__2PRFIN20060919_233429_000000342051_00216_23817_1850.N1	19-SEP-2006 23:34:29	Bright	34.000	82	48Bet UMa	2.3650	10600.	68	23817	No
239	GOM_NL__2PRFIN20060919_235937_000000422051_00216_23817_1851.N1	19-SEP-2006 23:59:37	Dark	41.500	132	15Rho Pup	2.8030	6900.0	83	23817	No

3. Quality information per product

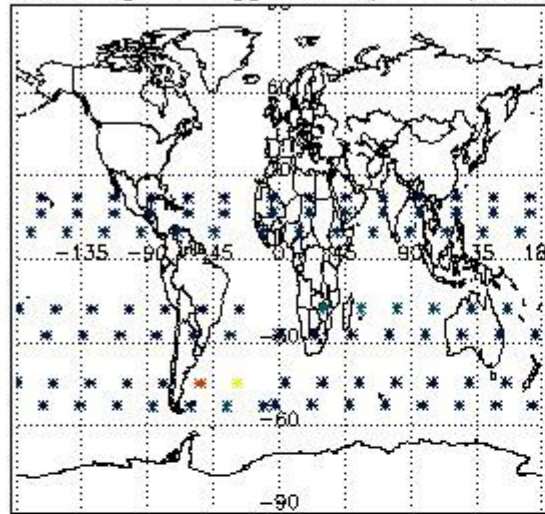
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

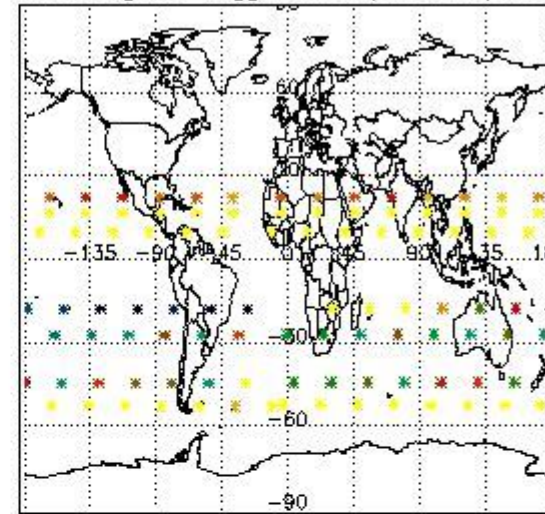


3.2 Plot quality information per product (world map)

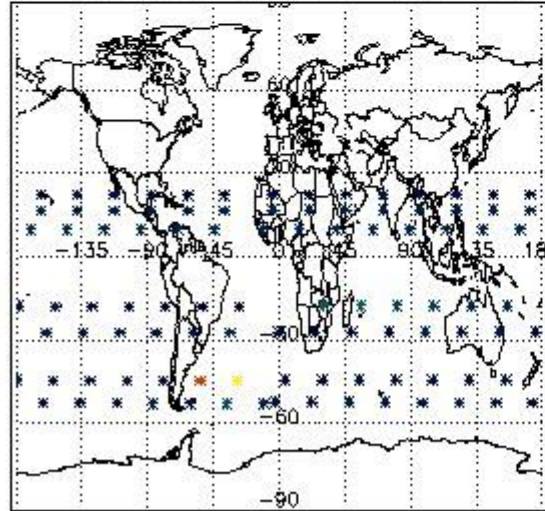
Percentage of flagged data per O3 profile



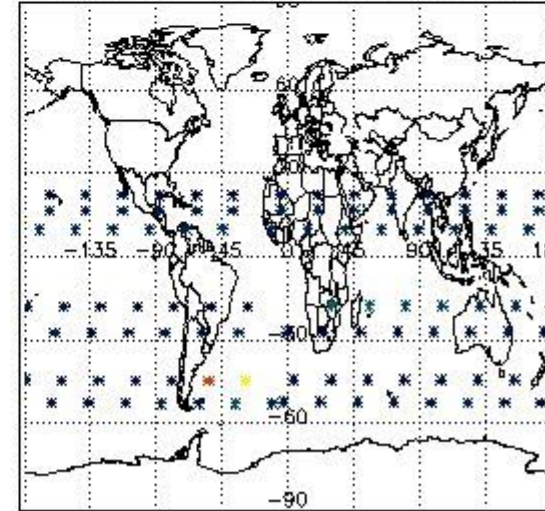
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

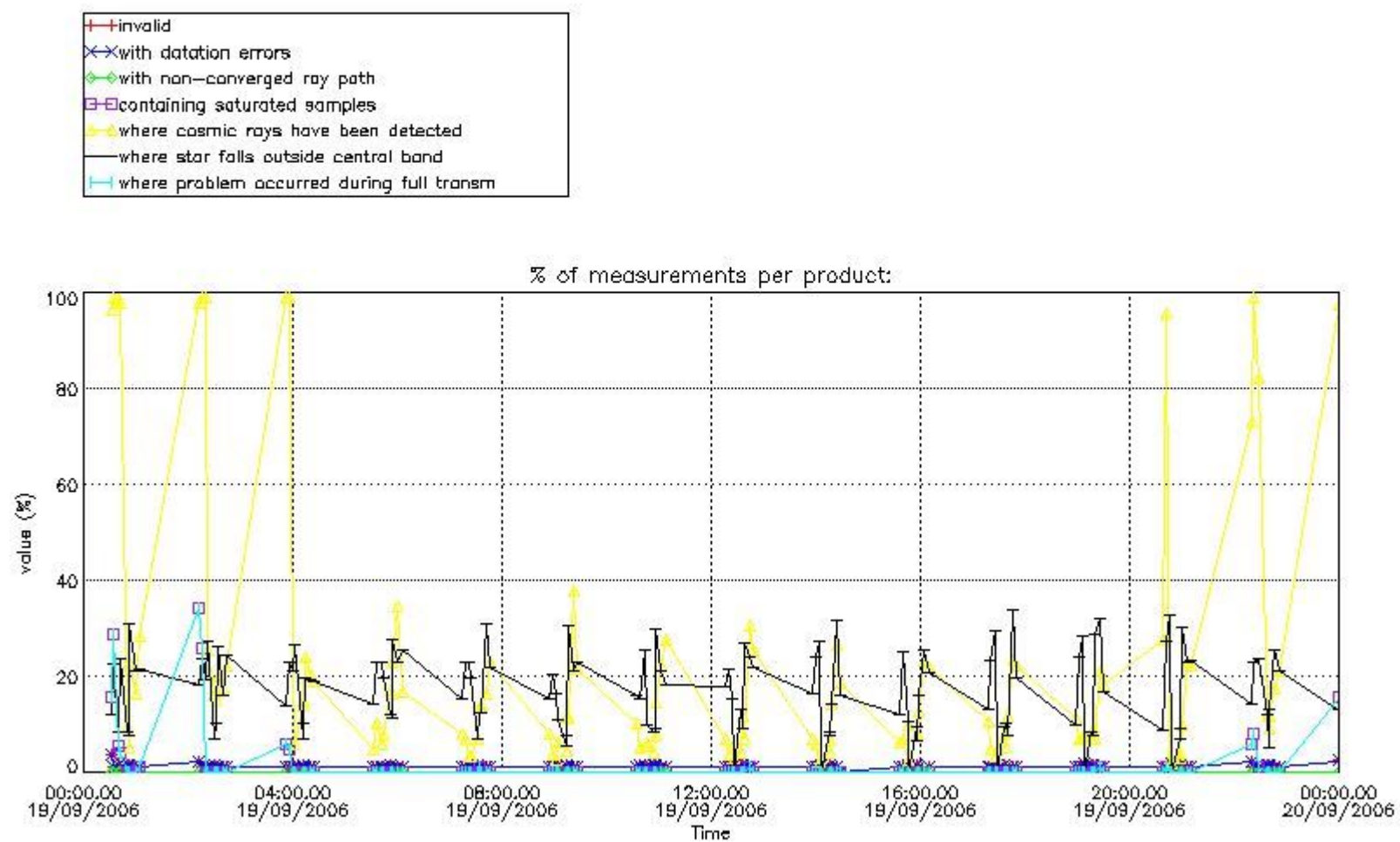


4. Level 1 quality information per product

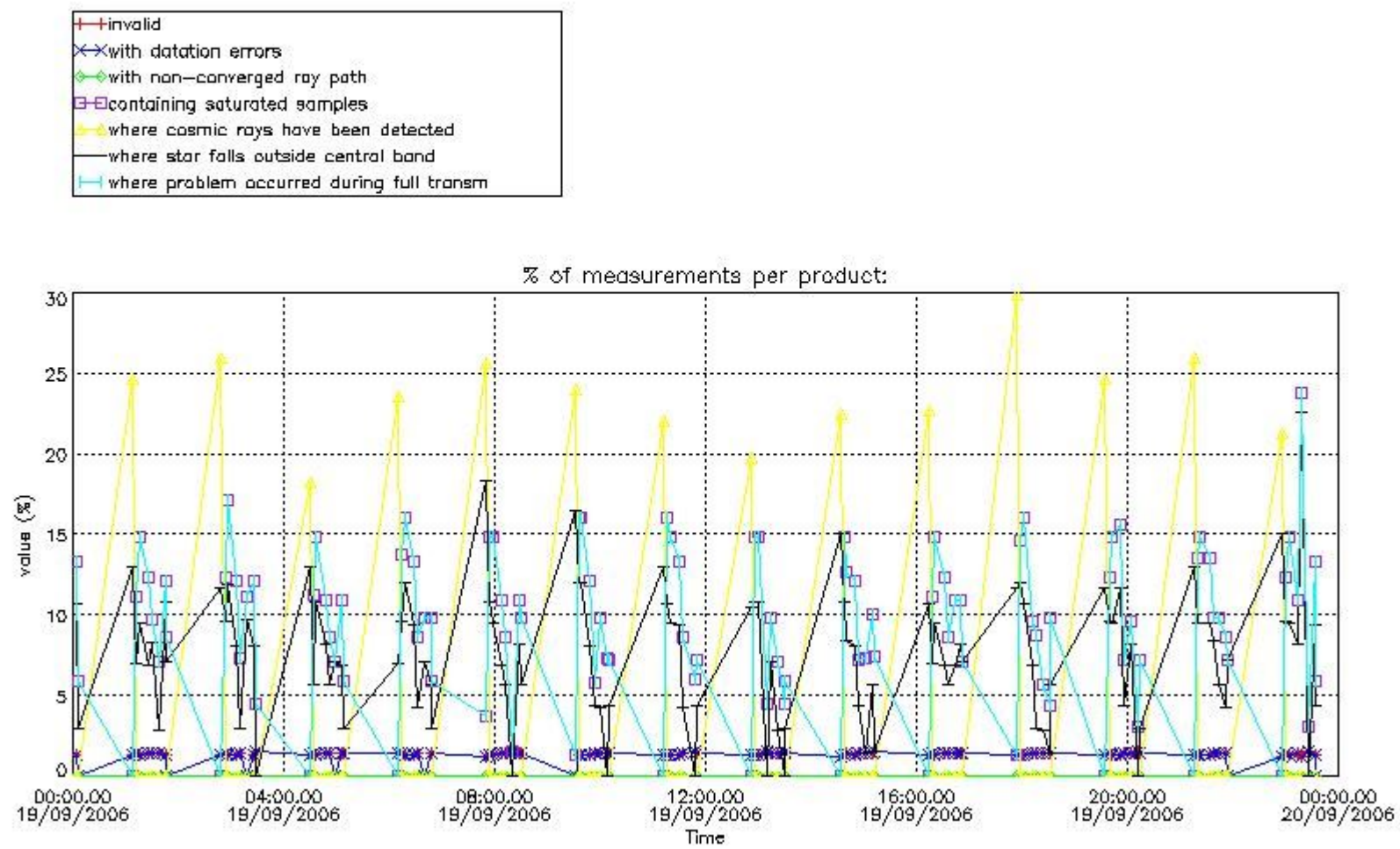
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

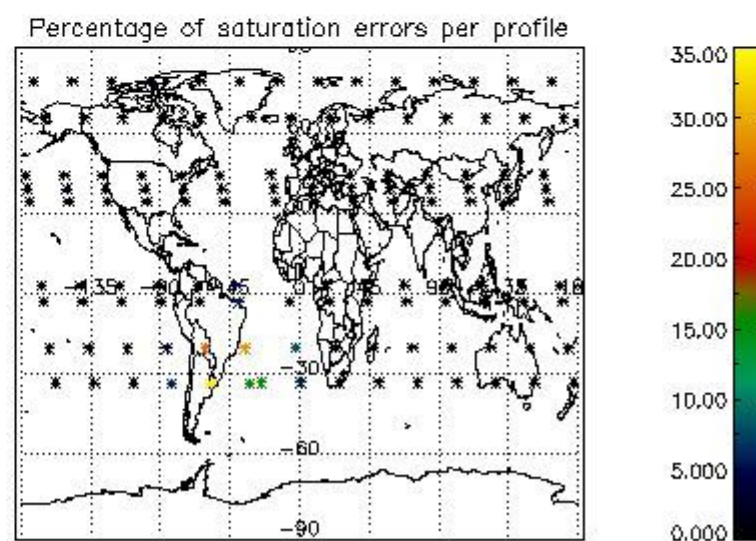
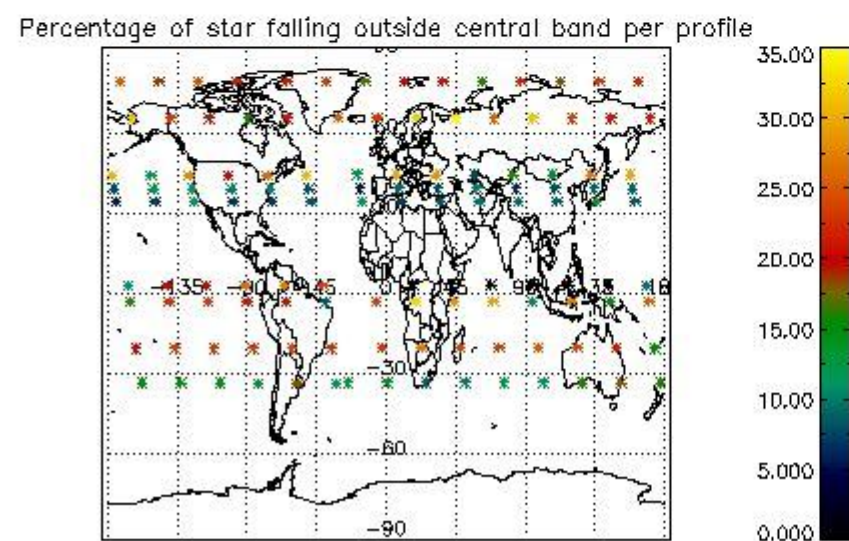
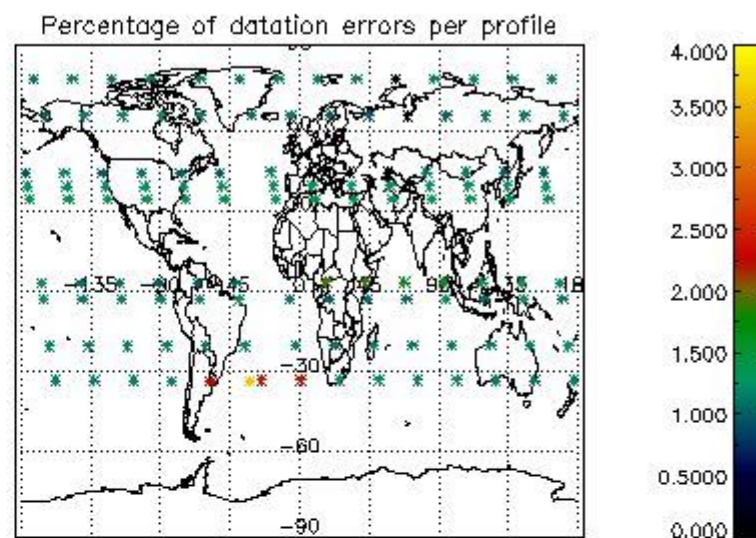
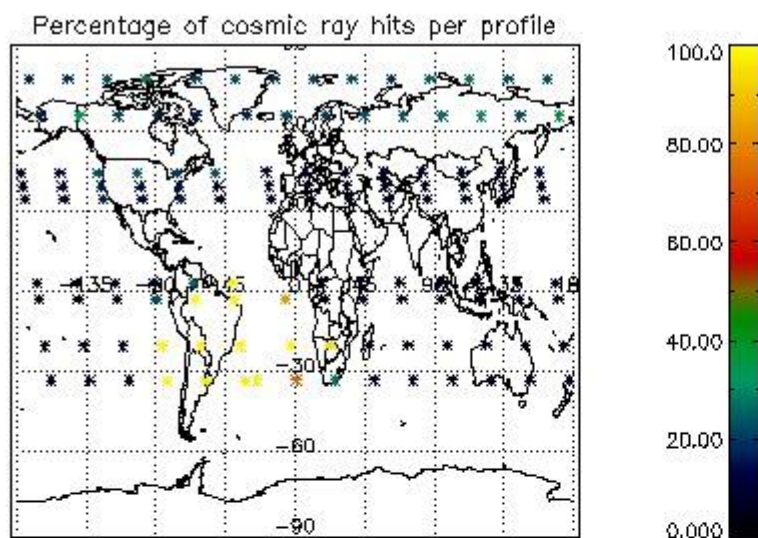


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

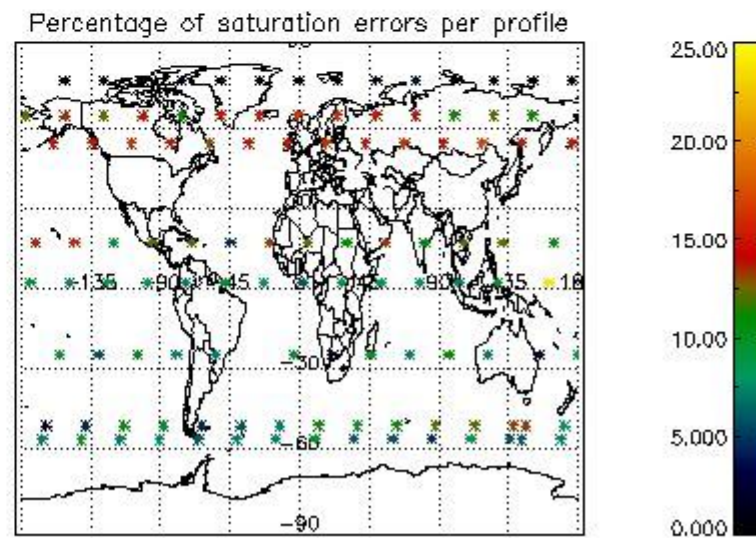
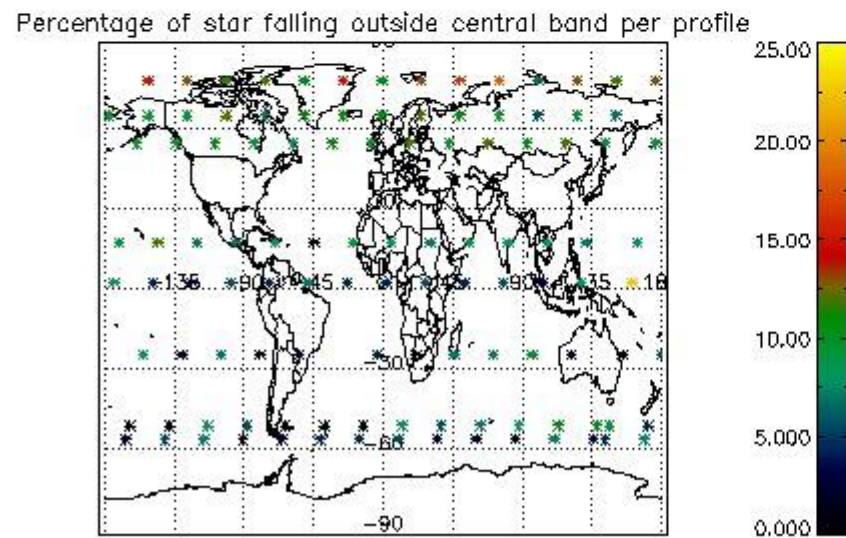
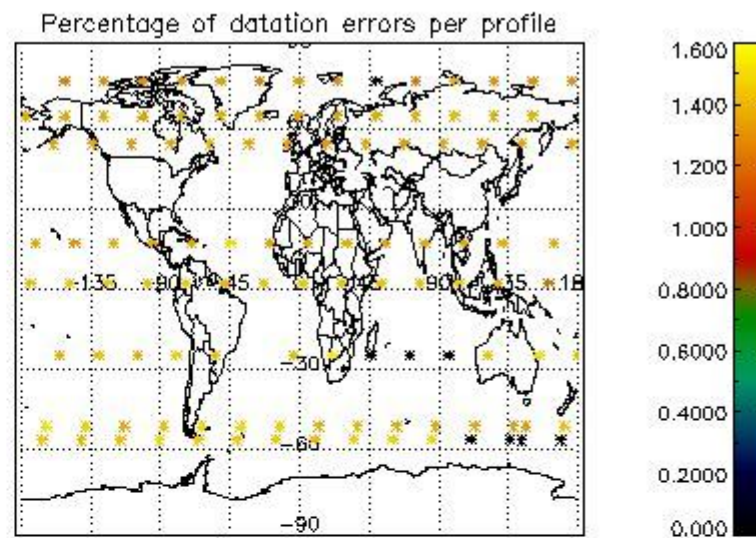
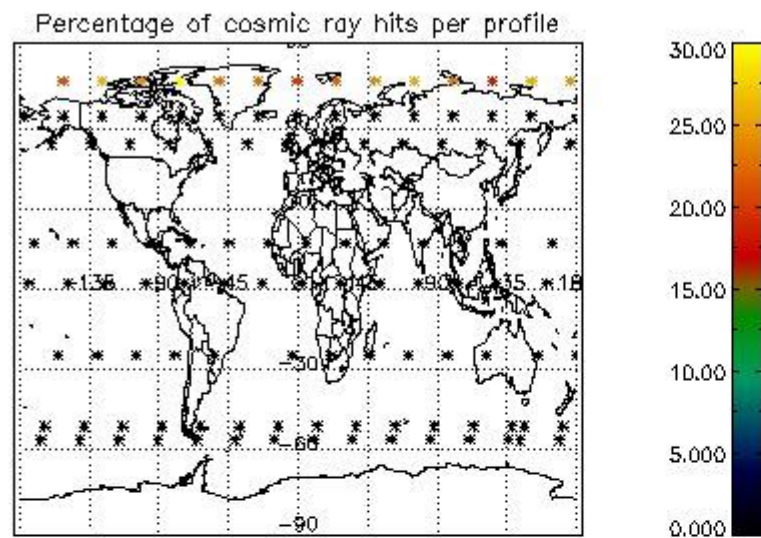


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

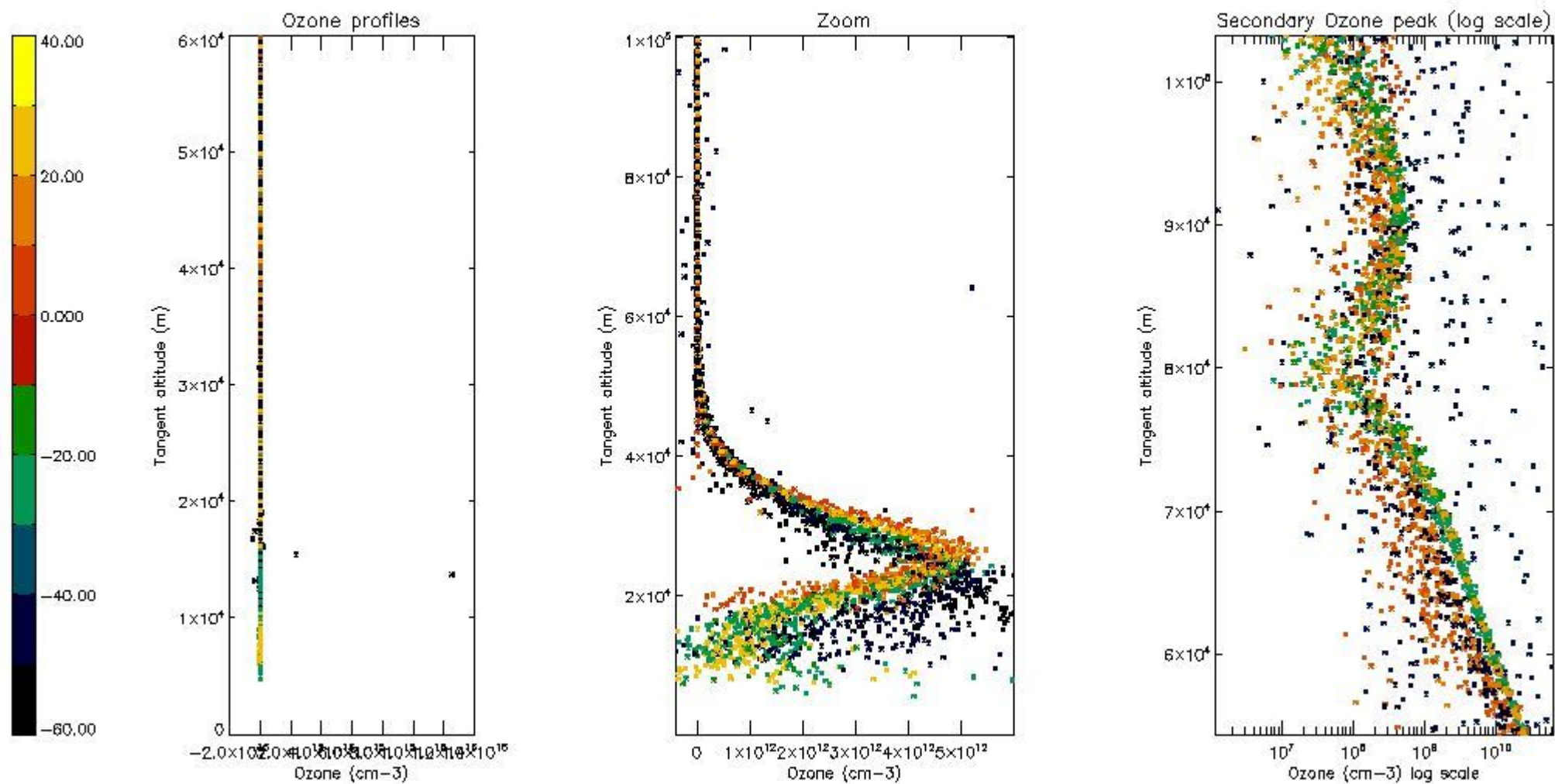
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	44
STD < 20	22

STD < 10	17
STD < 5	8

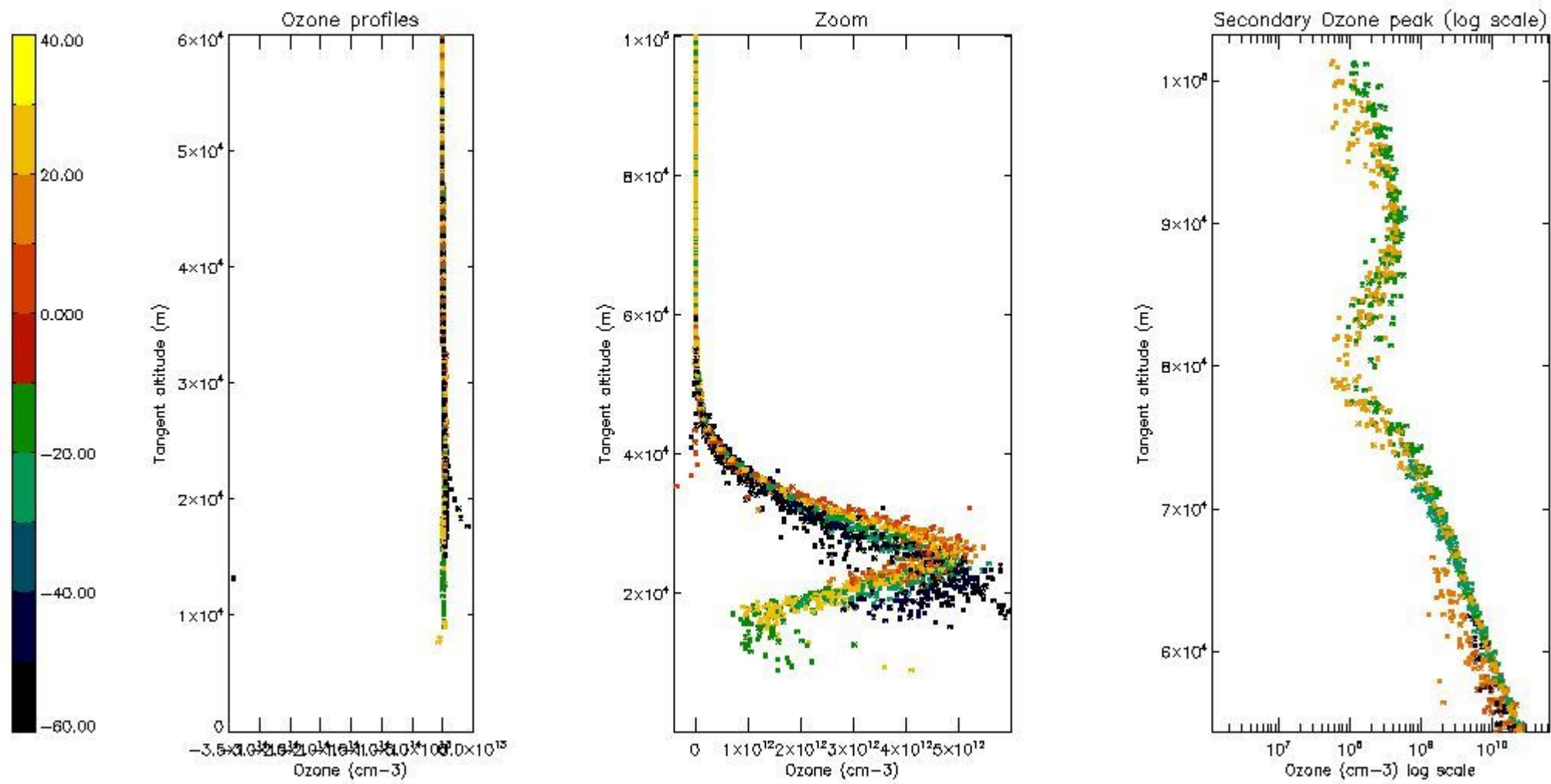
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



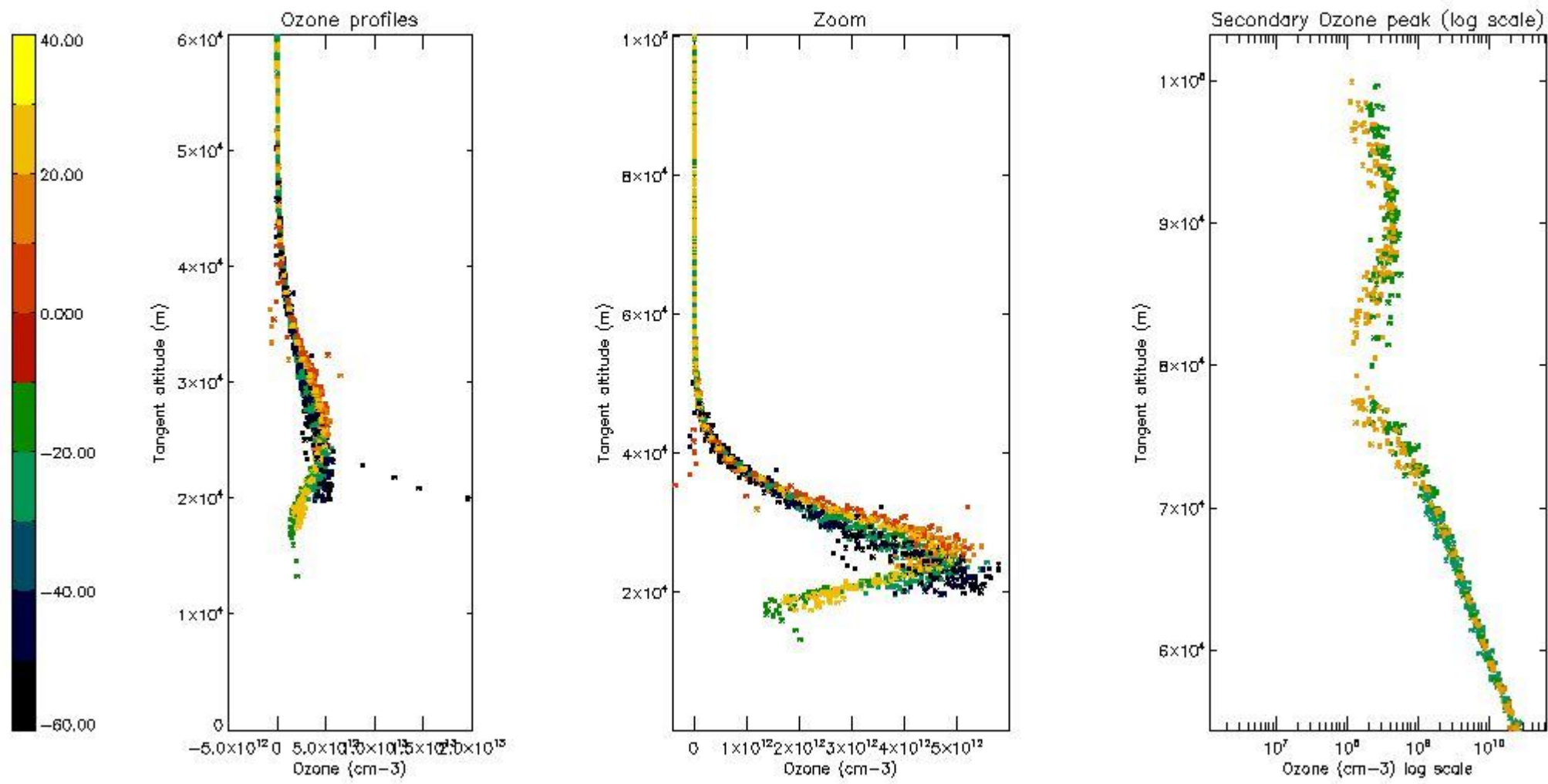
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



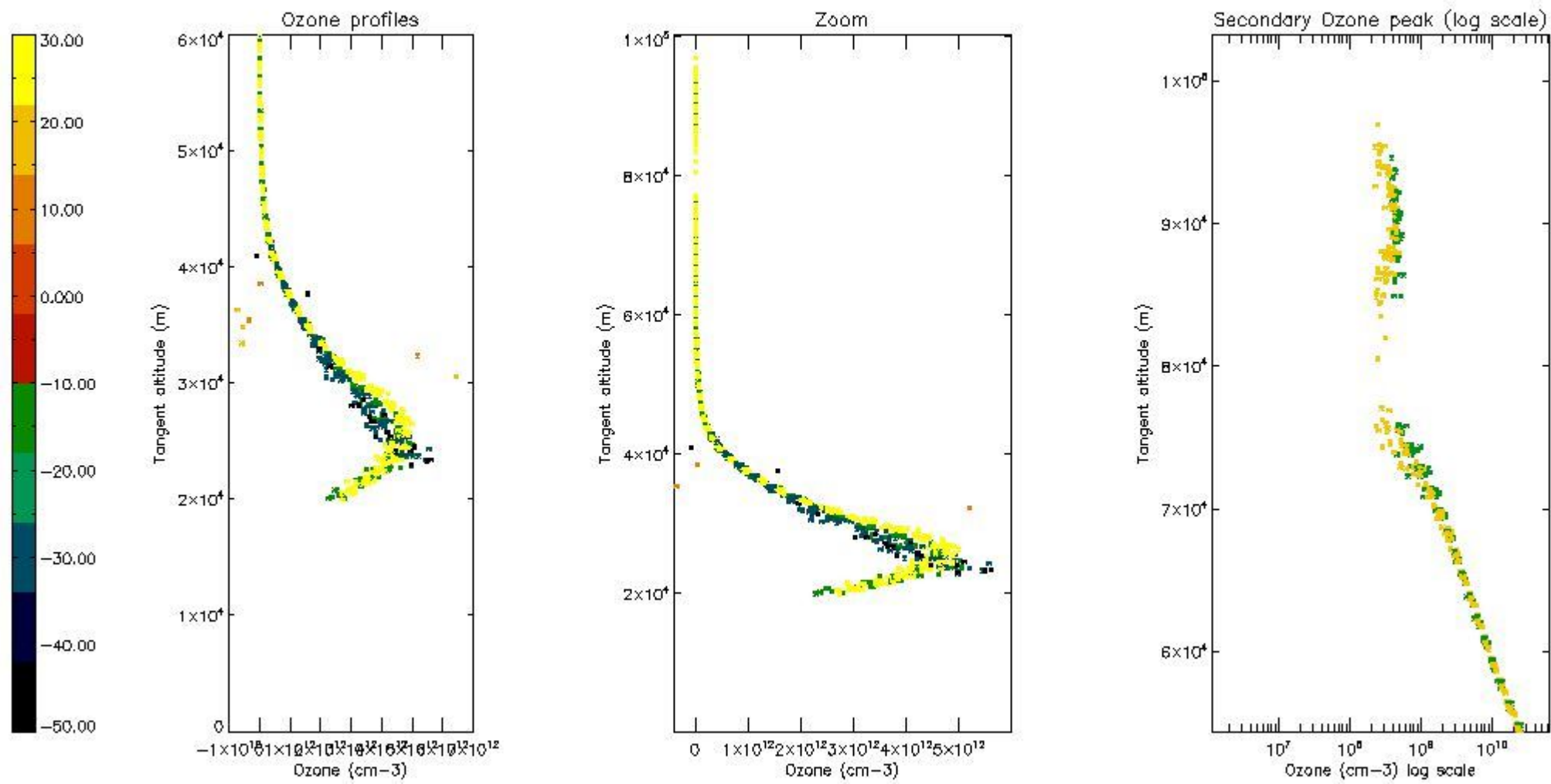
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



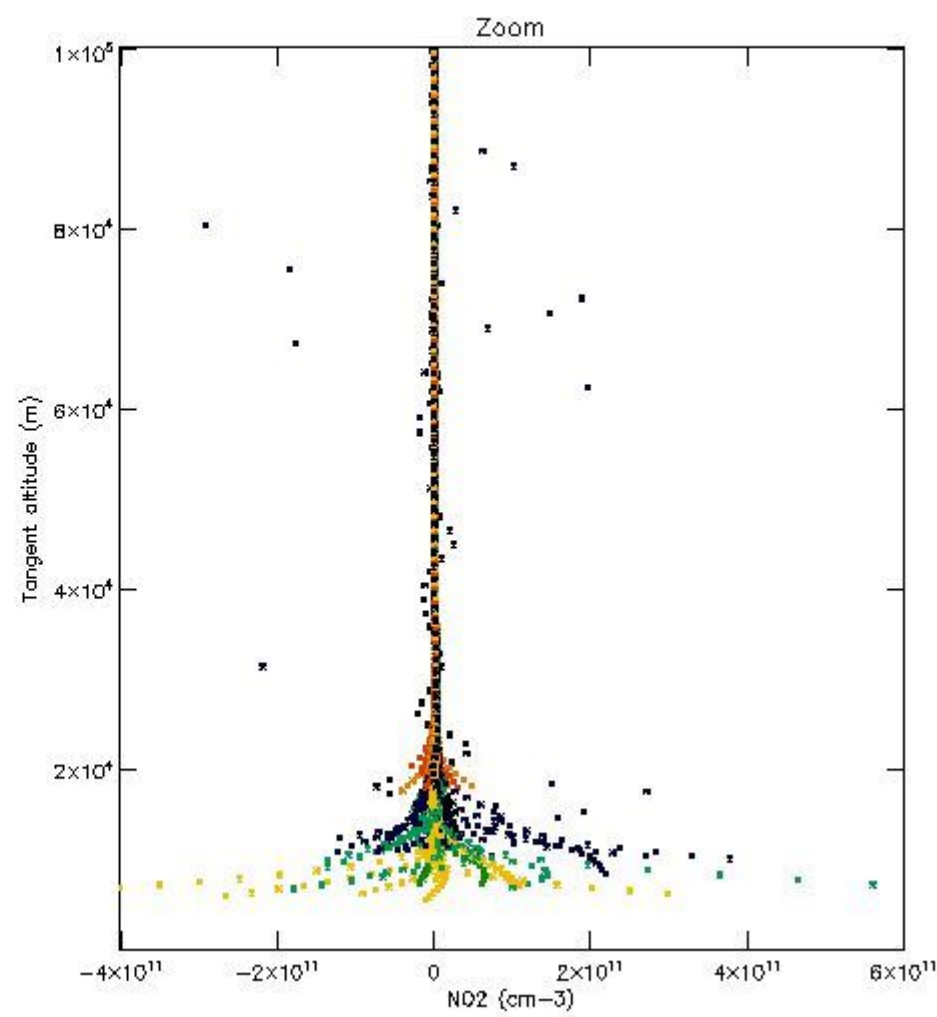
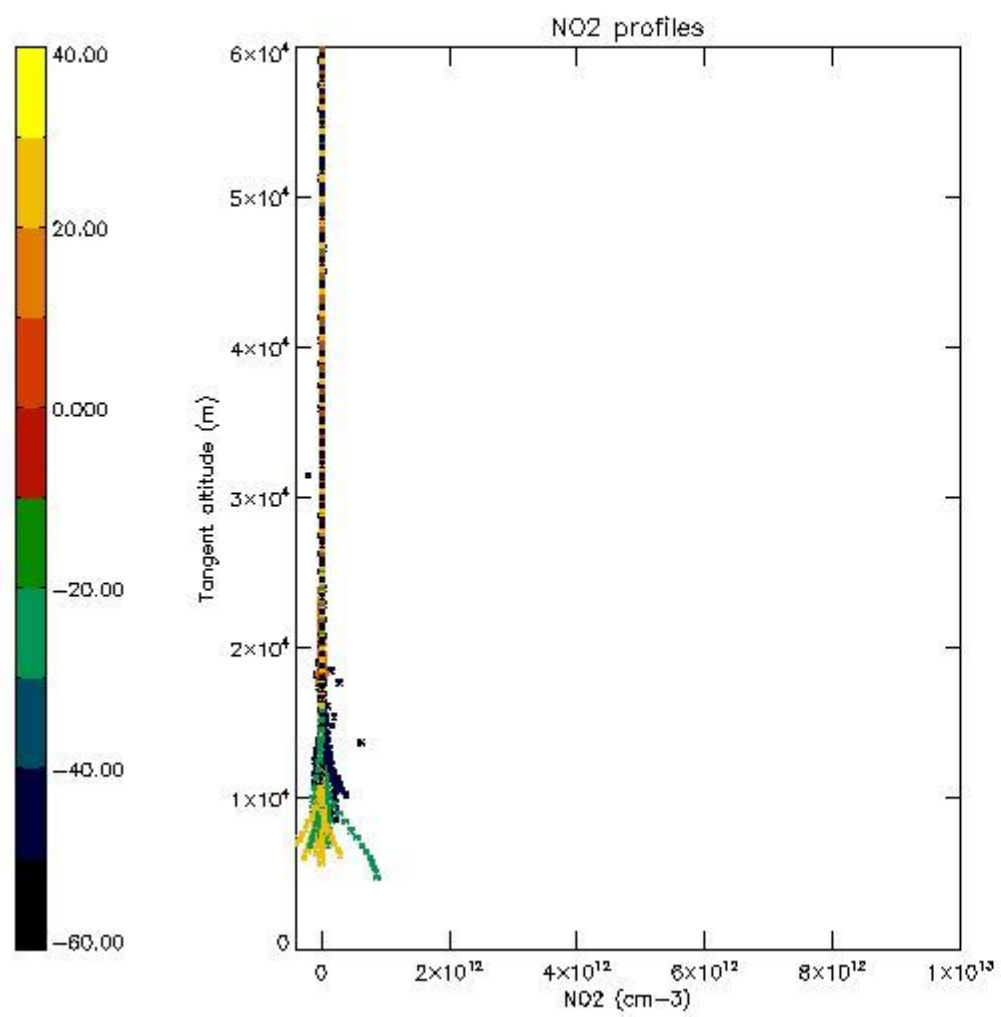
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



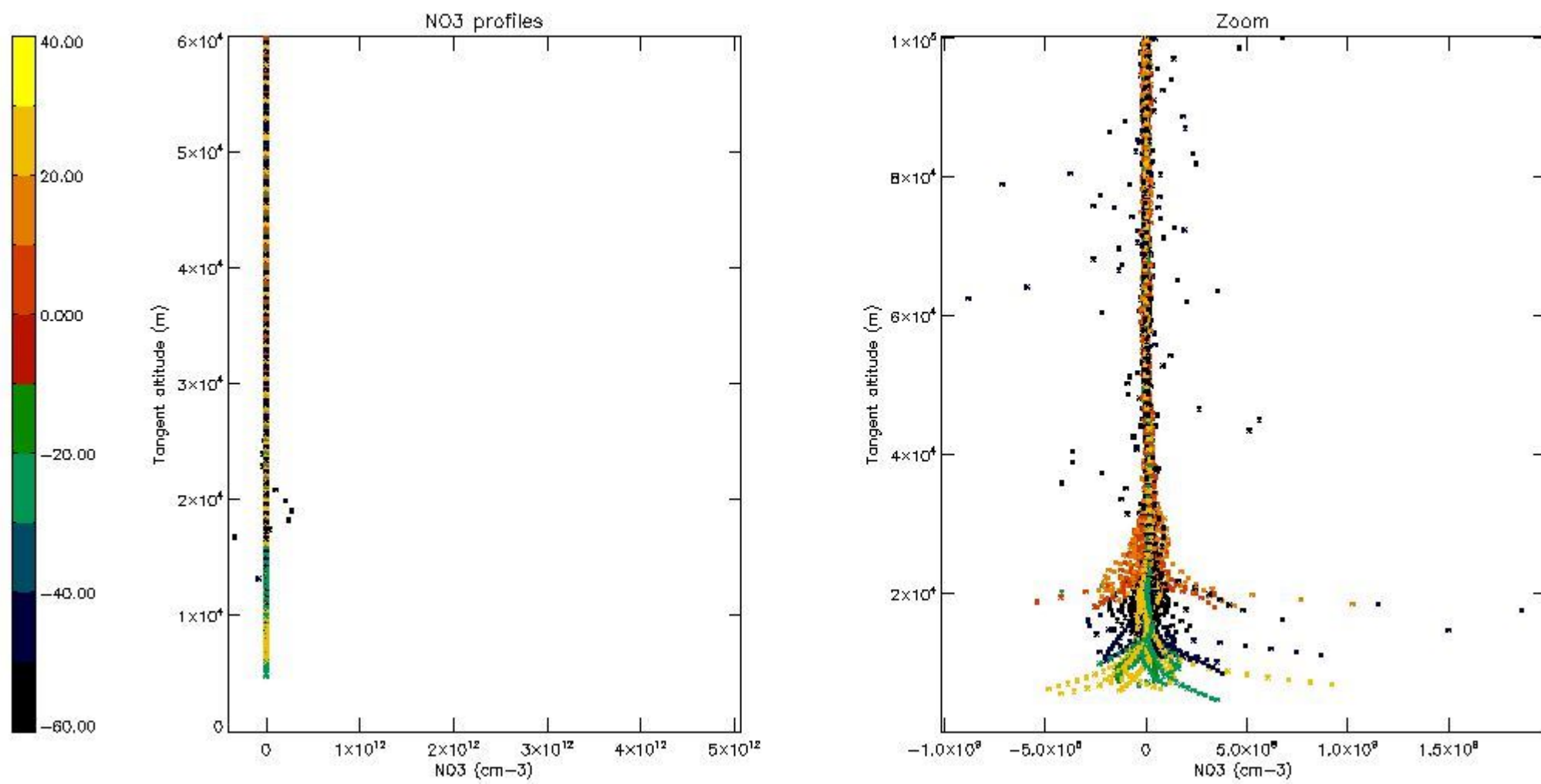
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



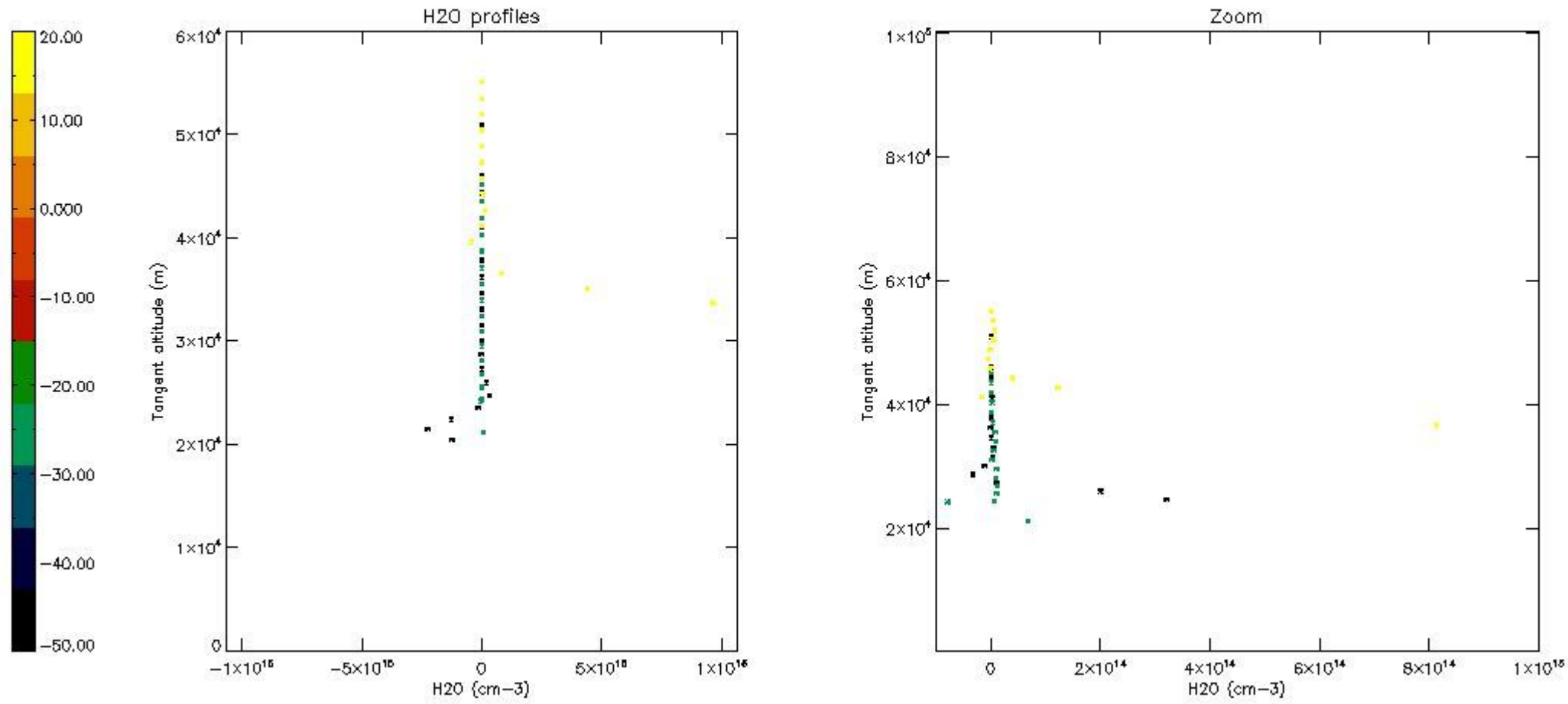
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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	19-SEP-2006 00:04:36
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	19-SEP-2006 00:04:36
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	19-SEP-2006 00:04:36

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[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	24APR2013 04:16:50
Data source version	GOMOS/6.01
Start time of products	19-09-2006 (19SEP2006 00:00:00)
Stop time of products	20-09-2006 (20SEP2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	239
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

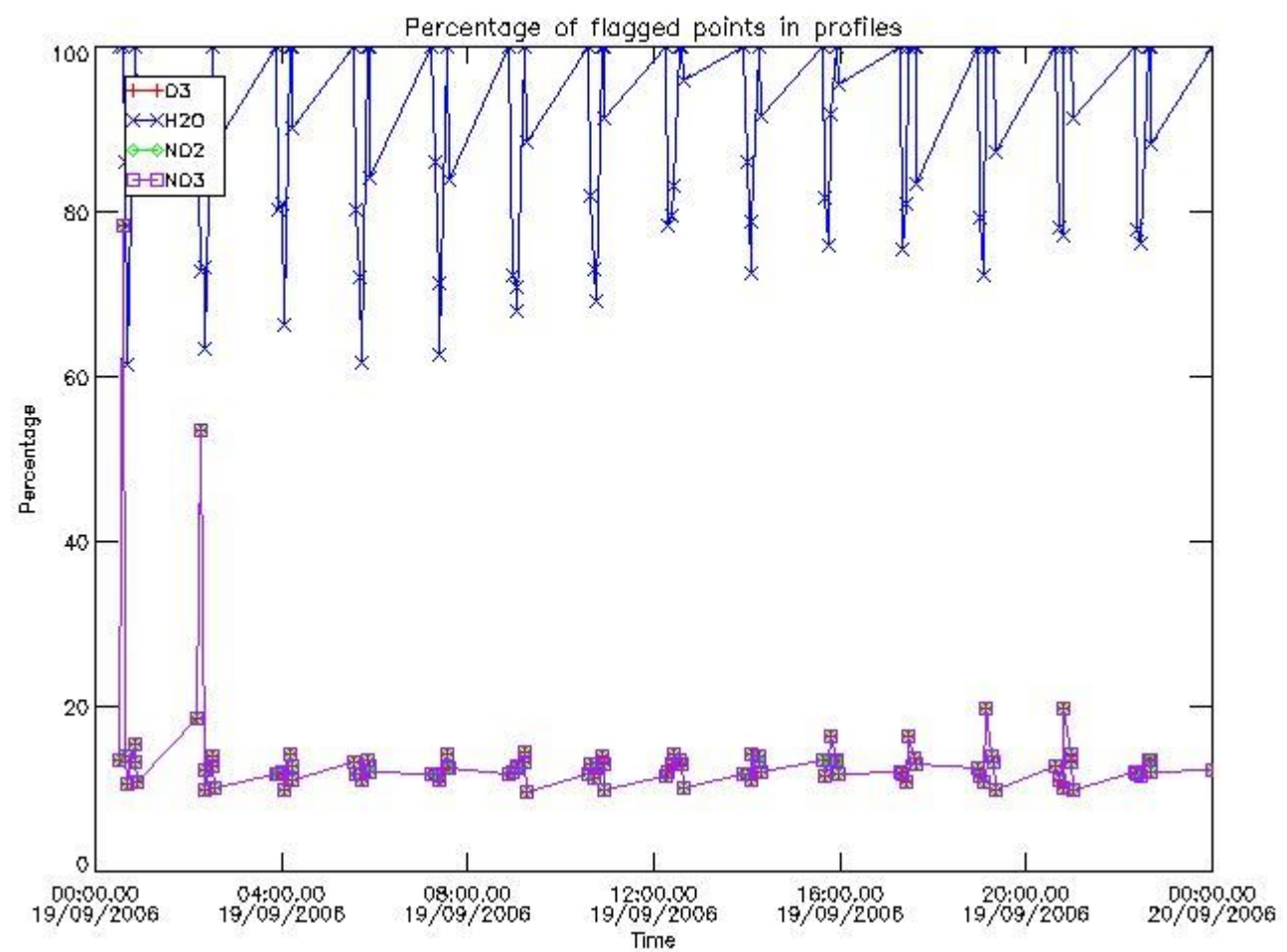
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060919_000436_000000382051_00202_23803_1809.N1	19-SEP-2006 00:04:36	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	23803	No
2	GOM_NL__2PRFIN20060919_000603_000000342051_00202_23803_1810.N1	19-SEP-2006 00:06:03	Bright	34.000	82	48Bet UMa	2.3650	10600.	68	23803	No
3	GOM_NL__2PRFIN20060919_003106_000000422051_00202_23803_1811.N1	19-SEP-2006 00:31:06	Dark	41.500	132	15Rho Pup	2.8030	6900.0	83	23803	No
4	GOM_NL__2PRFIN20060919_003448_000000422051_00202_23803_1812.N1	19-SEP-2006 00:34:48	Dark	42.000	65	Lam Vel	2.2040	4400.0	84	23803	No
5	GOM_NL__2PRFIN20060919_003938_000000372051_00202_23803_1813.N1	19-SEP-2006 00:39:38	Dark	36.500	41	Eps Car	1.8600	4100.0	73	23803	No
6	GOM_NL__2PRFIN20060919_004121_000000492051_00203_23804_1798.N1	19-SEP-2006 00:41:21	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	23804	No
7	GOM_NL__2PRFIN20060919_005011_000000372051_00203_23804_1799.N1	19-SEP-2006 00:50:11	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	23804	No
8	GOM_NL__2PRFIN20060919_005131_000000392051_00203_23804_1800.N1	19-SEP-2006 00:51:31	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	23804	No
9	GOM_NL__2PRFIN20060919_005257_000000522051_00203_23804_1801.N1	19-SEP-2006 00:52:57	Dark	52.000	9	Alp Eri	0.45300	24000.	104	23804	No
10	GOM_NL__2PRFIN20060919_005907_000000432051_00203_23804_1802.N1	19-SEP-2006 00:59:07	Straylight	43.000	63	Bet Gru	2.1500	2800.0	86	23804	No
11	GOM_NL__2PRFIN20060919_010342_000000442051_00203_23804_1803.N1	19-SEP-2006 01:03:42	Straylight	44.000	18	24Alp PsA	1.1660	9700.0	88	23804	No
12	GOM_NL__2PRFIN20060919_010812_000000392051_00203_23804_1804.N1	19-SEP-2006 01:08:12	Twilight_and_stray	38.500	142	49Del Cap	2.8500	8900.0	77	23804	No
13	GOM_NL__2PRFIN20060919_011223_000000362051_00203_23804_1805.N1	19-SEP-2006 01:12:23	Bright	36.000	162	34Alp Aqr	2.9440	5350.0	72	23804	No
14	GOM_NL__2PRFIN20060919_011525_000000372051_00203_23804_1806.N1	19-SEP-2006 01:15:25	Bright	37.000	61	8Eps Peg	2.1000	3900.0	74	23804	No
15	GOM_NL__2PRFIN20060919_012554_000000372051_00203_23804_1807.N1	19-SEP-2006 01:25:54	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	23804	No
16	GOM_NL__2PRFIN20060919_013008_000000362051_00203_23804_1808.N1	19-SEP-2006 01:30:08	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	23804	No
17	GOM_NL__2PRFIN20060919_013744_000000352051_00203_23804_1809.N1	19-SEP-2006 01:37:44	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	23804	No
18	GOM_NL__2PRFIN20060919_014512_000000372051_00203_23804_1810.N1	19-SEP-2006 01:45:12	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	23804	No
19	GOM_NL__2PRFIN20060919_014639_000000352051_00203_23804_1811.N1	19-SEP-2006 01:46:39	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	23804	No
20	GOM_NL__2PRFIN20060919_021143_000000442051_00203_23804_1812.N1	19-SEP-2006 02:11:43	Dark	44.000	132	15Rho Pup	2.8030	6900.0	88	23804	No
21	GOM_NL__2PRFIN20060919_021524_000000452051_00203_23804_1813.N1	19-SEP-2006 02:15:24	Dark	44.500	65	Lam Vel	2.2040	4400.0	89	23804	No
22	GOM_NL__2PRFIN20060919_022015_000000422051_00203_23804_1814.N1	19-SEP-2006 02:20:15	Dark	41.500	41	Eps Car	1.8600	4100.0	83	23804	No
23	GOM_NL__2PRFIN20060919_022158_000000512051_00204_23805_1798.N1	19-SEP-2006 02:21:58	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	23805	No
24	GOM_NL__2PRFIN20060919_023047_000000372051_00204_23805_1799.N1	19-SEP-2006 02:30:47	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	23805	No
25	GOM_NL__2PRFIN20060919_023207_000000402051_00204_23805_1800.N1	19-SEP-2006 02:32:07	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	23805	No
26	GOM_NL__2PRFIN20060919_023333_000000502051_00204_23805_1801.N1	19-SEP-2006 02:33:33	Dark	50.000	9	Alp Eri	0.45300	24000.	100	23805	No
27	GOM_NL__2PRFIN20060919_023944_000000412051_00204_23805_1802.N1	19-SEP-2006 02:39:44	Straylight	40.500	63	Bet Gru	2.1500	2800.0	81	23805	No
28	GOM_NL__2PRFIN20060919_024418_000000452051_00204_23805_1803.N1	19-SEP-2006 02:44:18	Straylight	45.000	18	24Alp PsA	1.1660	9700.0	90	23805	No
29	GOM_NL__2PRFIN20060919_024848_000000392051_00204_23805_1804.N1	19-SEP-2006 02:48:48	Twilight_and_stray	38.500	142	49Del Cap	2.8500	8900.0	77	23805	No
30	GOM_NL__2PRFIN20060919_025300_000000372051_00204_23805_1805.N1	19-SEP-2006 02:53:00	Bright	36.500	162	34Alp Aqr	2.9440	5350.0	73	23805	No
31	GOM_NL__2PRFIN20060919_025601_000000382051_00204_23805_1806.N1	19-SEP-2006 02:56:01	Bright	38.000	61	8Eps Peg	2.1000	3900.0	76	23805	No
32	GOM_NL__2PRFIN20060919_030630_000000372051_00204_23805_1807.N1	19-SEP-2006 03:06:30	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	23805	No
33	GOM_NL__2PRFIN20060919_031044_000000342051_00204_23805_1808.N1	19-SEP-2006 03:10:44	Bright	34.000	89	5Alp Cep	2.4510	8000.0	68	23805	No
34	GOM_NL__2PRFIN20060919_031820_000000362051_00204_23805_1809.N1	19-SEP-2006 03:18:20	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	23805	No
35	GOM_NL__2PRFIN20060919_032548_000000372051_00204_23805_1810.N1	19-SEP-2006 03:25:48	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	23805	No
36	GOM_NL__2PRFIN20060919_032716_000000342051_00204_23805_1811.N1	19-SEP-2006 03:27:16	Bright	33.500	82	48Bet UMa	2.3650	10600.	67	23805	No
37	GOM_NL__2PRFIN20060919_035219_000000432051_00204_23805_1812.N1	19-SEP-2006 03:52:19	Dark	43.000	132	15Rho Pup	2.8030	6900.0	86	23805	No
38	GOM_NL__2PRFIN20060919_035600_000000442051_00204_23805_1813.N1	19-SEP-2006 03:56:00	Dark	43.500	65	Lam Vel	2.2040	4400.0	87	23805	No
39	GOM_NL__2PRFIN20060919_040051_000000432051_00204_23805_1814.N1	19-SEP-2006 04:00:51	Dark	42.500	41	Eps Car	1.8600	4100.0	85	23805	No
40	GOM_NL__2PRFIN20060919_040235_000000512051_00205_23806_1818.N1	19-SEP-2006 04:02:35	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	23806	No
41	GOM_NL__2PRFIN20060919_041124_000000362051_00205_23806_1819.N1	19-SEP-2006 04:11:24	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	23806	No
42	GOM_NL__2PRFIN20060919_041244_000000402051_00205_23806_1820.N1	19-SEP-2006 04:12:44	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	23806	No

220	GOM_NL__2PRFIN20060919_214455_000000362051_00215_23816_1849.N1	19-SEP-2006 21:44:55	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23816	No
221	GOM_NL__2PRFIN20060919_215226_000000352051_00215_23816_1850.N1	19-SEP-2006 21:52:26	Bright	35.000	36	50Alp UMa	1.8000	6300.0	70	23816	No
222	GOM_NL__2PRFIN20060919_215353_000000352051_00215_23816_1851.N1	19-SEP-2006 21:53:53	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	23816	No
223	GOM_NL__2PRFIN20060919_221901_000000432051_00215_23816_1852.N1	19-SEP-2006 22:19:01	Dark	42.500	132	15Rho Pup	2.8030	6900.0	85	23816	No
224	GOM_NL__2PRFIN20060919_222238_000000442051_00215_23816_1853.N1	19-SEP-2006 22:22:38	Dark	43.500	65	Lam Vel	2.2040	4400.0	87	23816	No
225	GOM_NL__2PRFIN20060919_222729_000000452051_00215_23816_1854.N1	19-SEP-2006 22:27:29	Dark	44.500	41	Eps Car	1.8600	4100.0	89	23816	No
226	GOM_NL__2PRFIN20060919_223801_000000382051_00216_23817_1838.N1	19-SEP-2006 22:38:01	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	23817	No
227	GOM_NL__2PRFIN20060919_223924_000000382051_00216_23817_1839.N1	19-SEP-2006 22:39:24	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	23817	No
228	GOM_NL__2PRFIN20060919_224050_000000432051_00216_23817_1840.N1	19-SEP-2006 22:40:50	Dark	42.500	9	Alp Eri	0.45300	24000.	85	23817	No
229	GOM_NL__2PRFIN20060919_224657_000000462051_00216_23817_1841.N1	19-SEP-2006 22:46:57	Straylight	45.500	63	Bet Gru	2.1500	2800.0	91	23817	No
230	GOM_NL__2PRFIN20060919_225132_000000432051_00216_23817_1842.N1	19-SEP-2006 22:51:32	Straylight	43.000	18	24Alp PsA	1.1660	9700.0	86	23817	No
231	GOM_NL__2PRFIN20060919_225602_000000402051_00216_23817_1843.N1	19-SEP-2006 22:56:02	Twilight_stray	40.000	142	49Del Cap	2.8500	8900.0	80	23817	No
232	GOM_NL__2PRFIN20060919_230013_000000372051_00216_23817_1844.N1	19-SEP-2006 23:00:13	Bright	36.500	162	34Alp Aqr	2.9440	5350.0	73	23817	No
233	GOM_NL__2PRFIN20060919_230315_000000372051_00216_23817_1845.N1	19-SEP-2006 23:03:15	Bright	37.000	61	8Eps Peg	2.1000	3900.0	74	23817	No
234	GOM_NL__2PRFIN20060919_231345_000000372051_00216_23817_1846.N1	19-SEP-2006 23:13:45	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	23817	No
235	GOM_NL__2PRFIN20060919_231756_000000422051_00216_23817_1847.N1	19-SEP-2006 23:17:56	Bright	42.000	89	5Alp Cep	2.4510	8000.0	84	23817	No
236	GOM_NL__2PRFIN20060919_232531_000000332051_00216_23817_1848.N1	19-SEP-2006 23:25:31	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	23817	No
237	GOM_NL__2PRFIN20060919_233302_000000382051_00216_23817_1849.N1	19-SEP-2006 23:33:02	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	23817	No
238	GOM_NL__2PRFIN20060919_233429_000000342051_00216_23817_1850.N1	19-SEP-2006 23:34:29	Bright	34.000	82	48Bet UMa	2.3650	10600.	68	23817	No
239	GOM_NL__2PRFIN20060919_235937_000000422051_00216_23817_1851.N1	19-SEP-2006 23:59:37	Dark	41.500	132	15Rho Pup	2.8030	6900.0	83	23817	No

3. Quality information per product

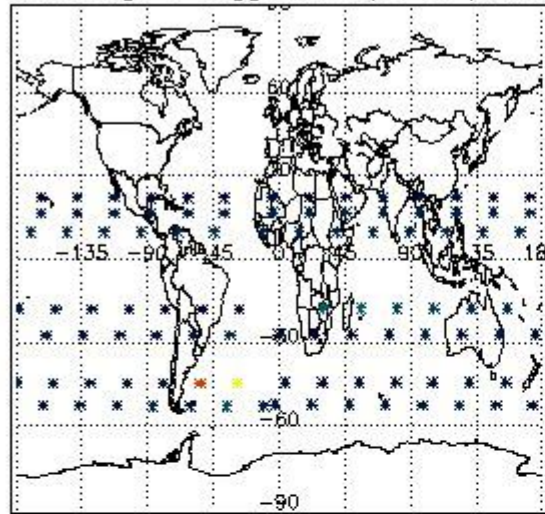
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

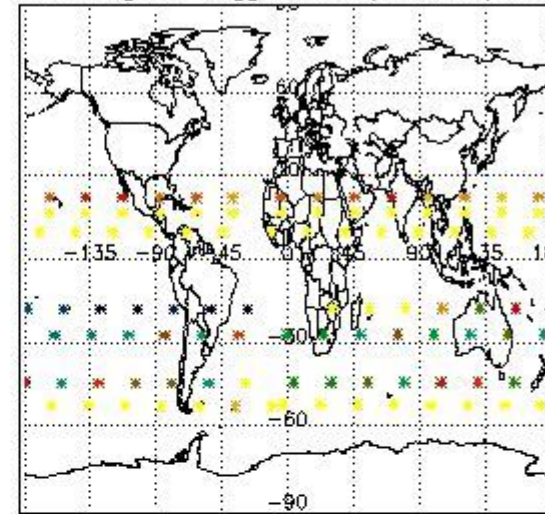


3.2 Plot quality information per product (world map)

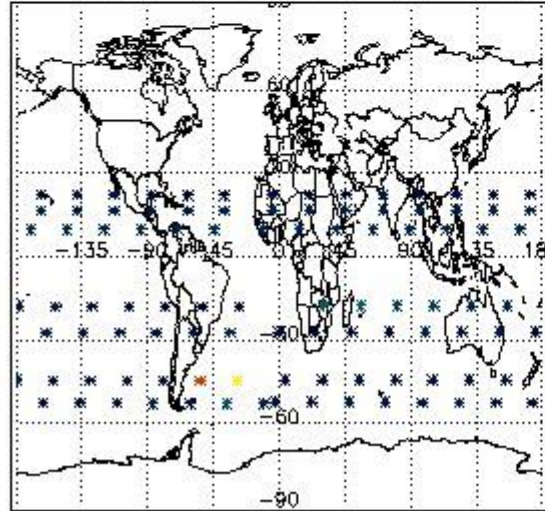
Percentage of flagged data per O3 profile



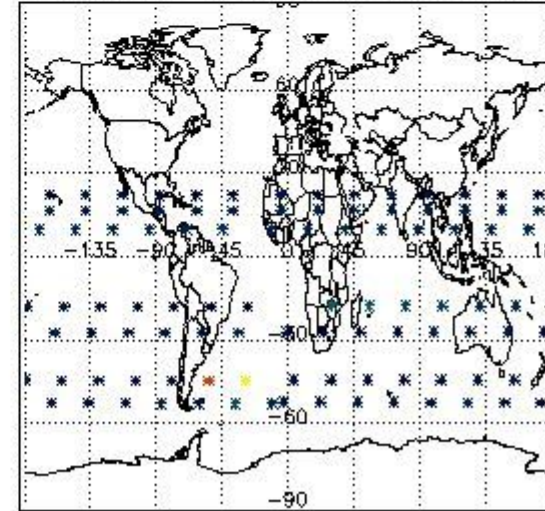
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

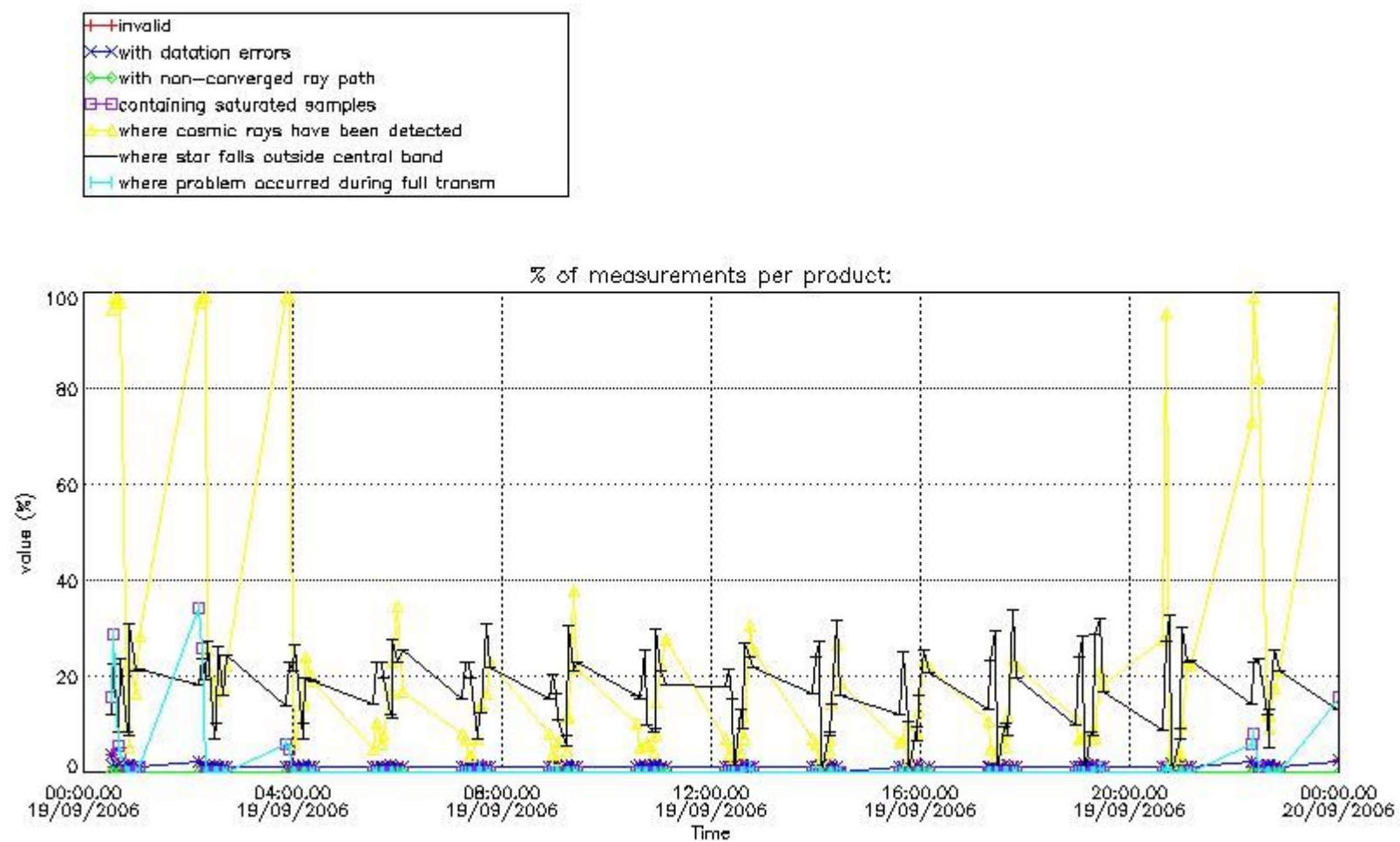


4. Level 1 quality information per product

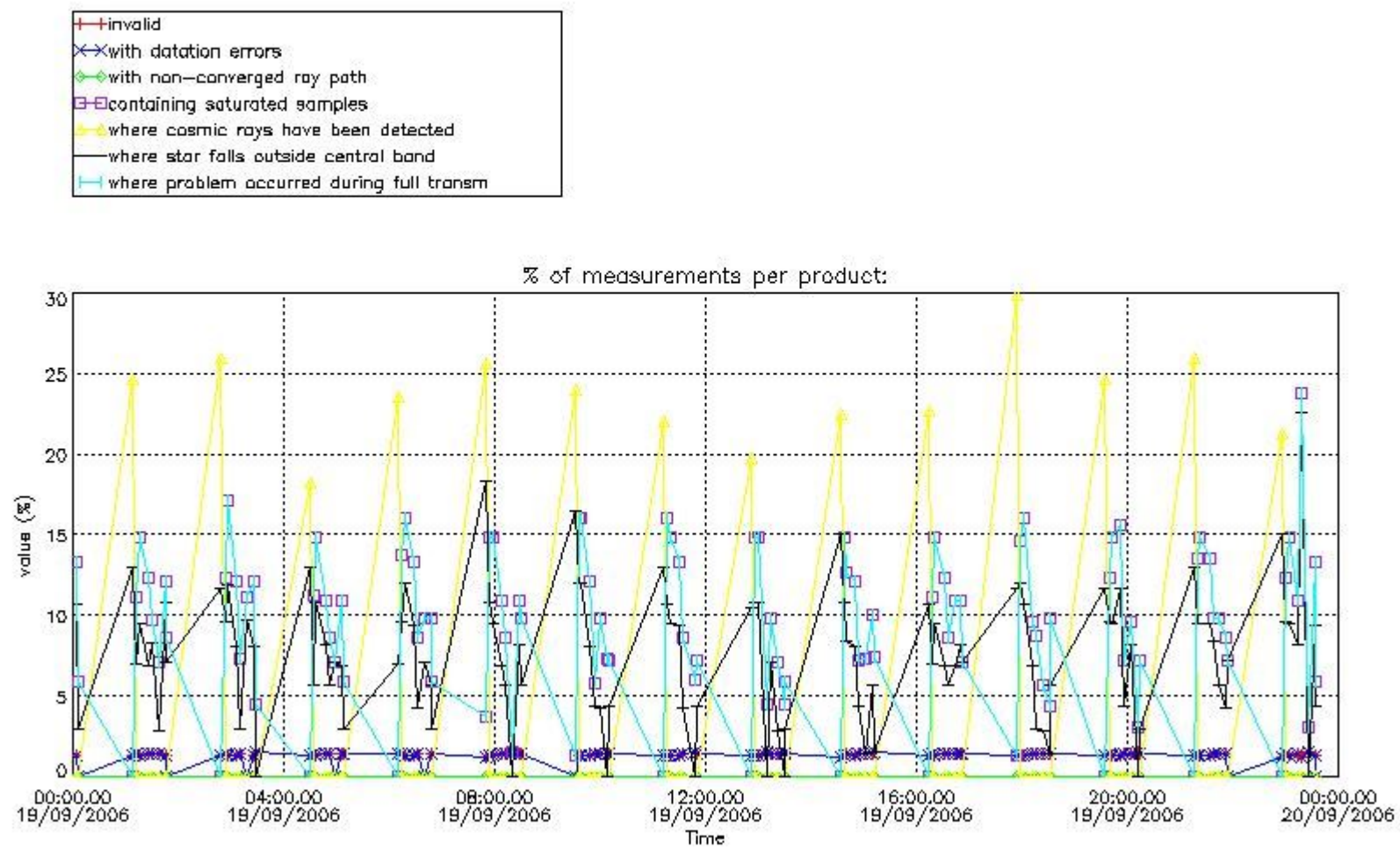
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

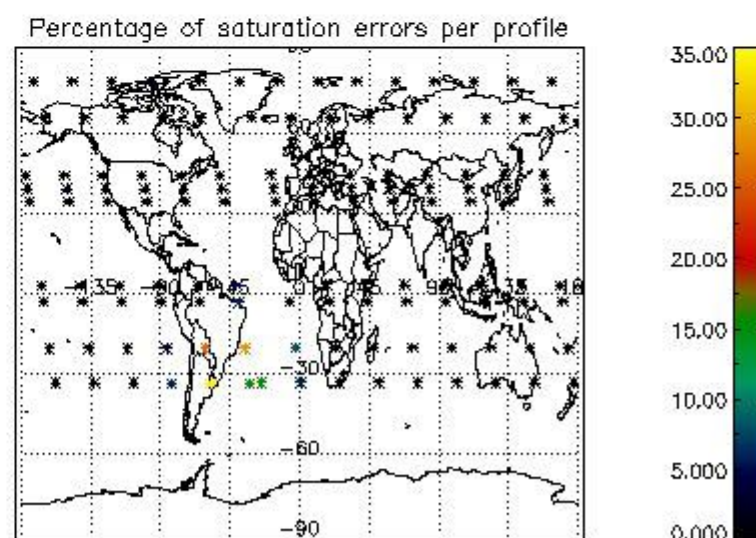
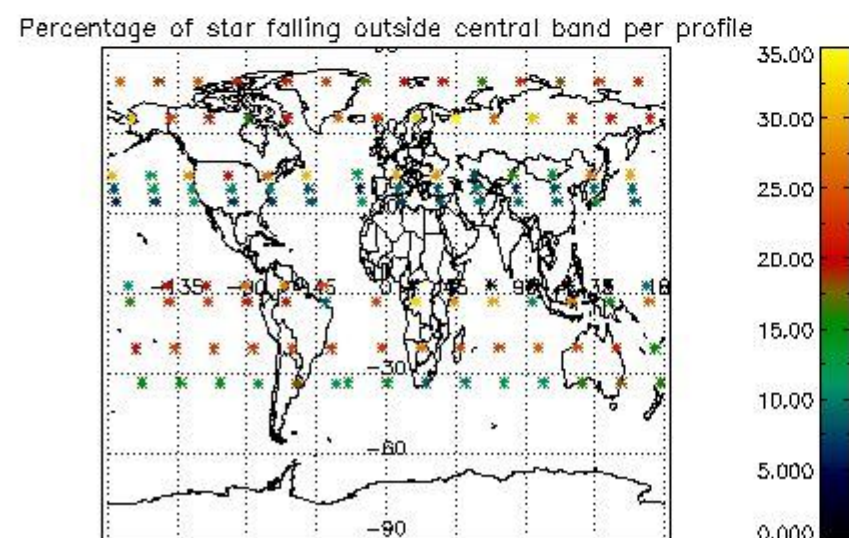
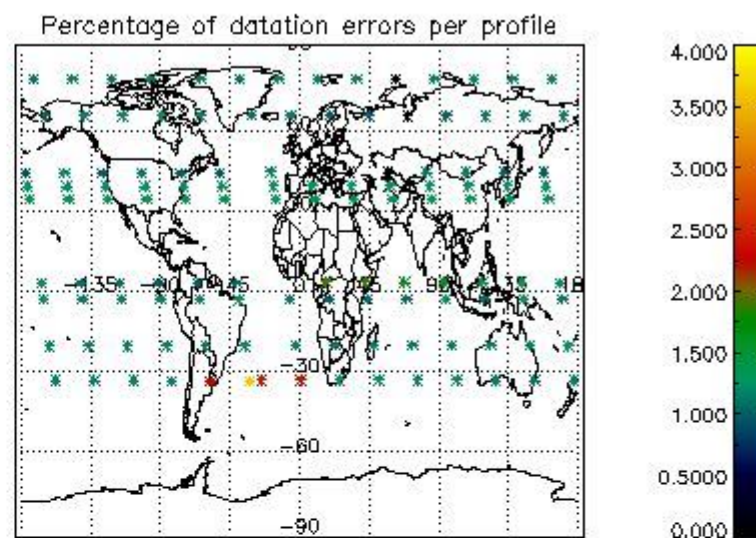
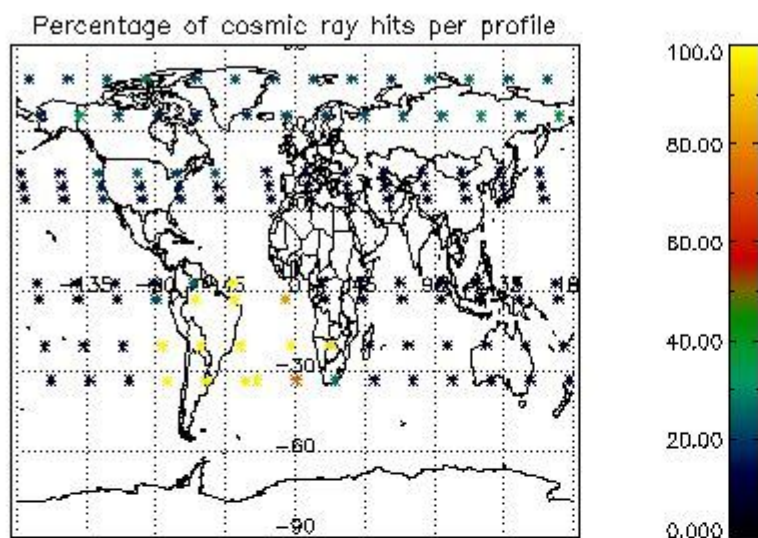


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

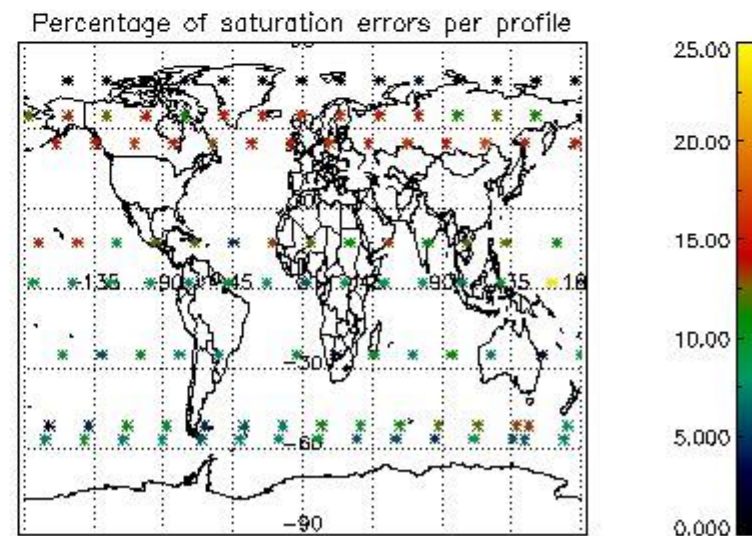
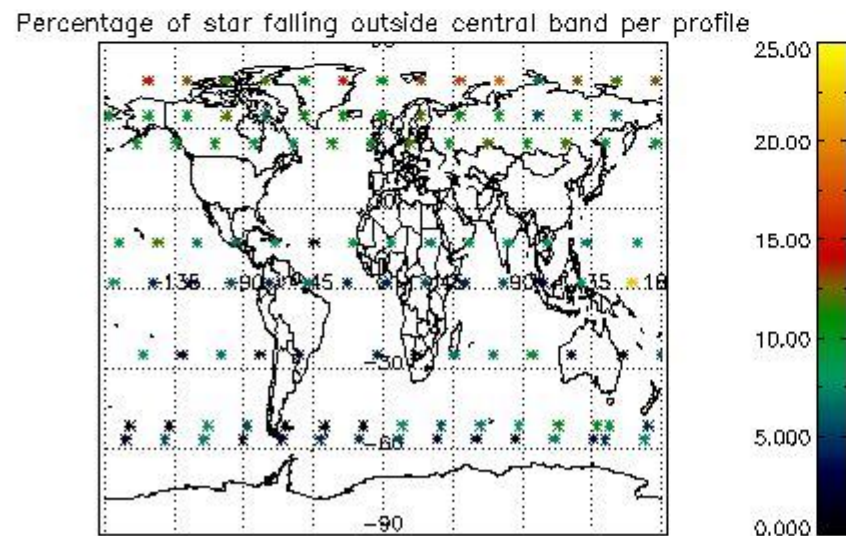
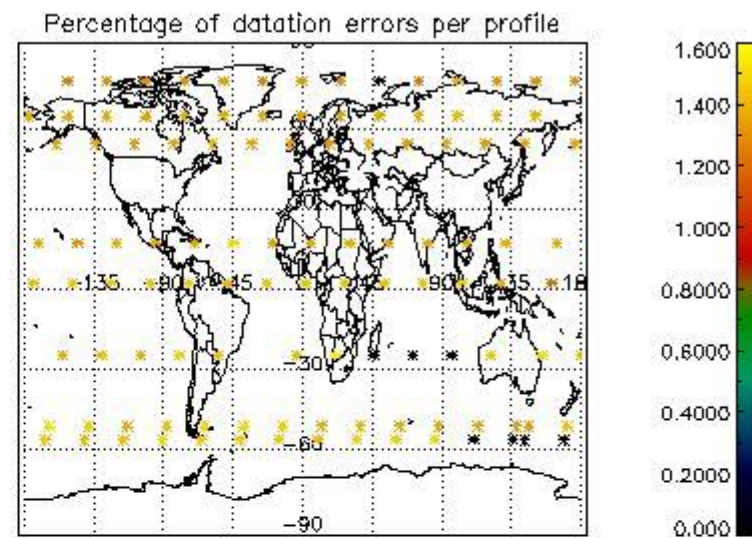
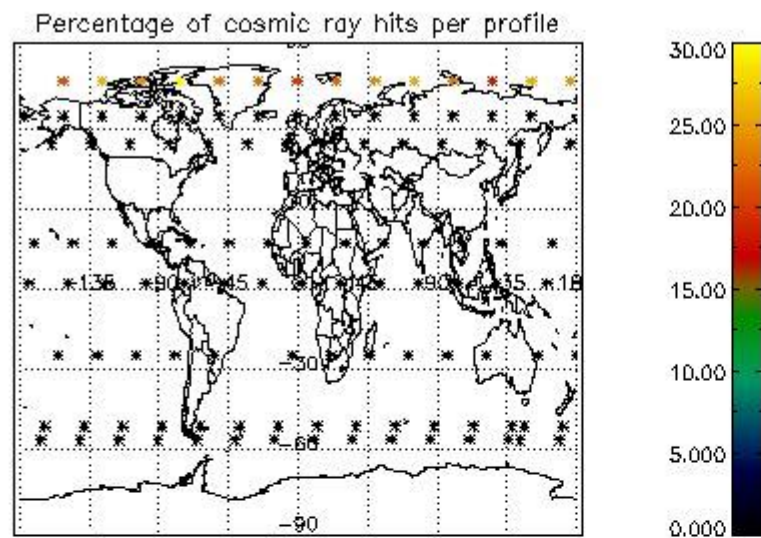


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

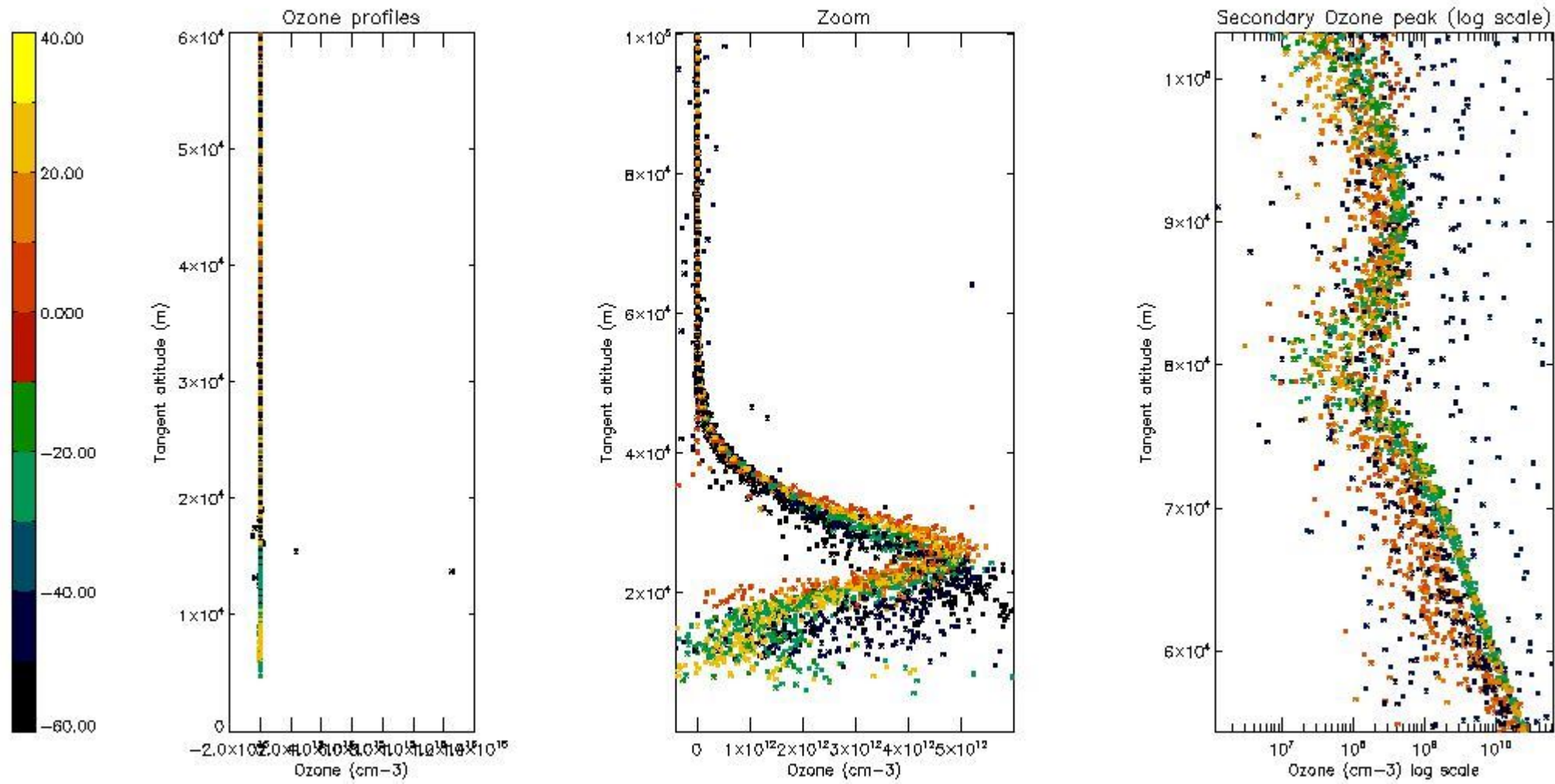
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	44
STD < 20	22

STD < 10	17
STD < 5	8

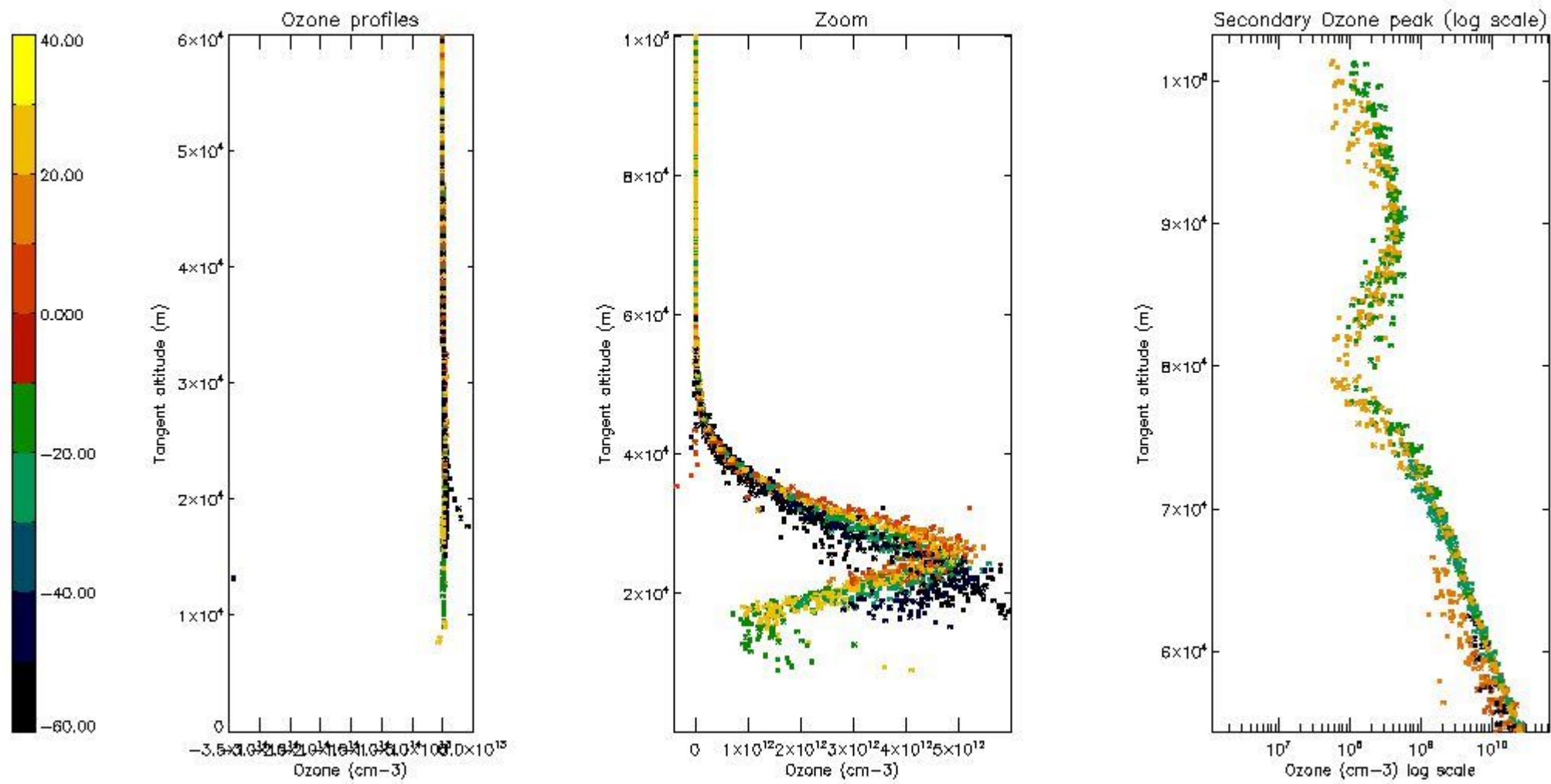
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



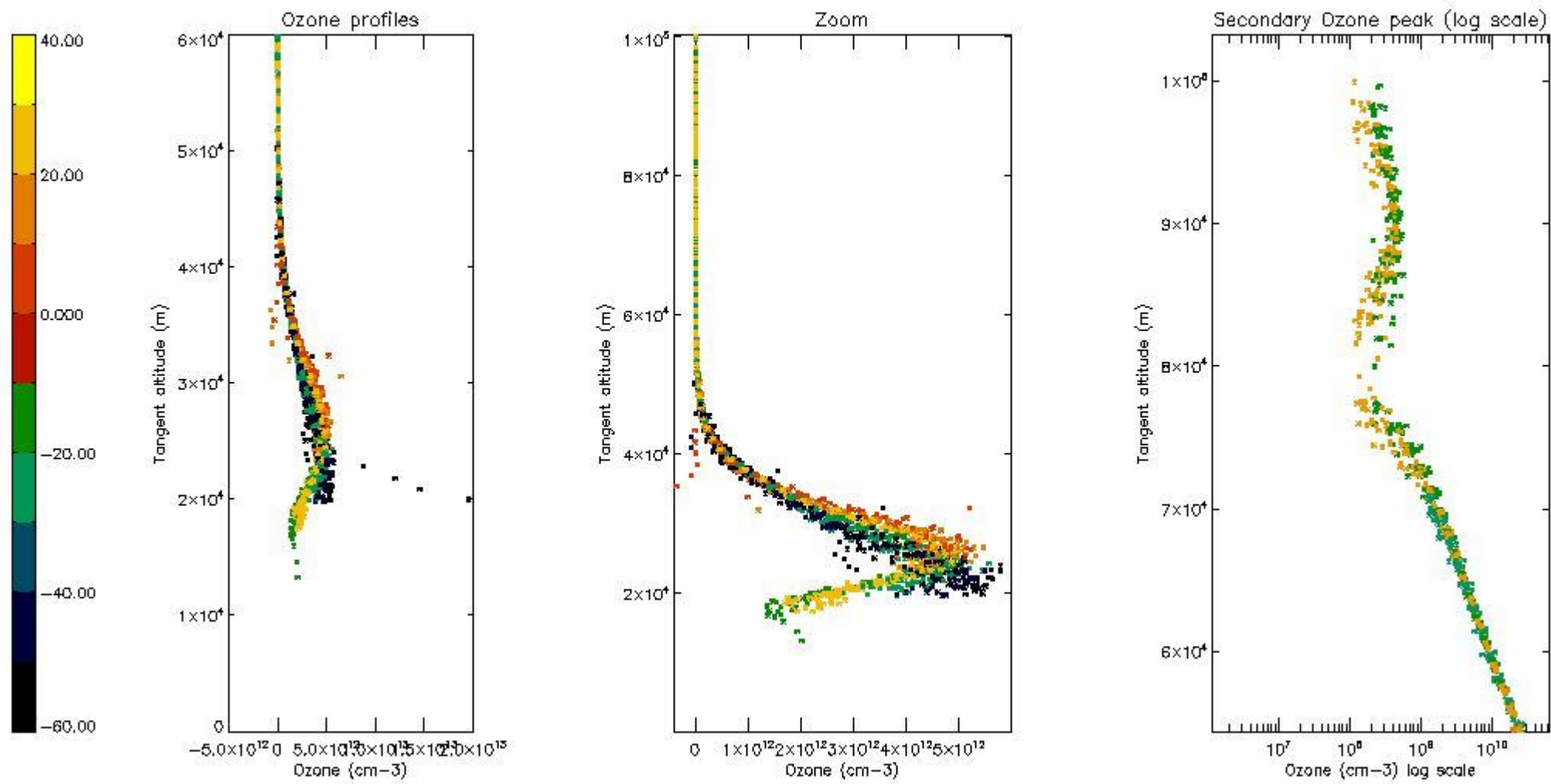
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



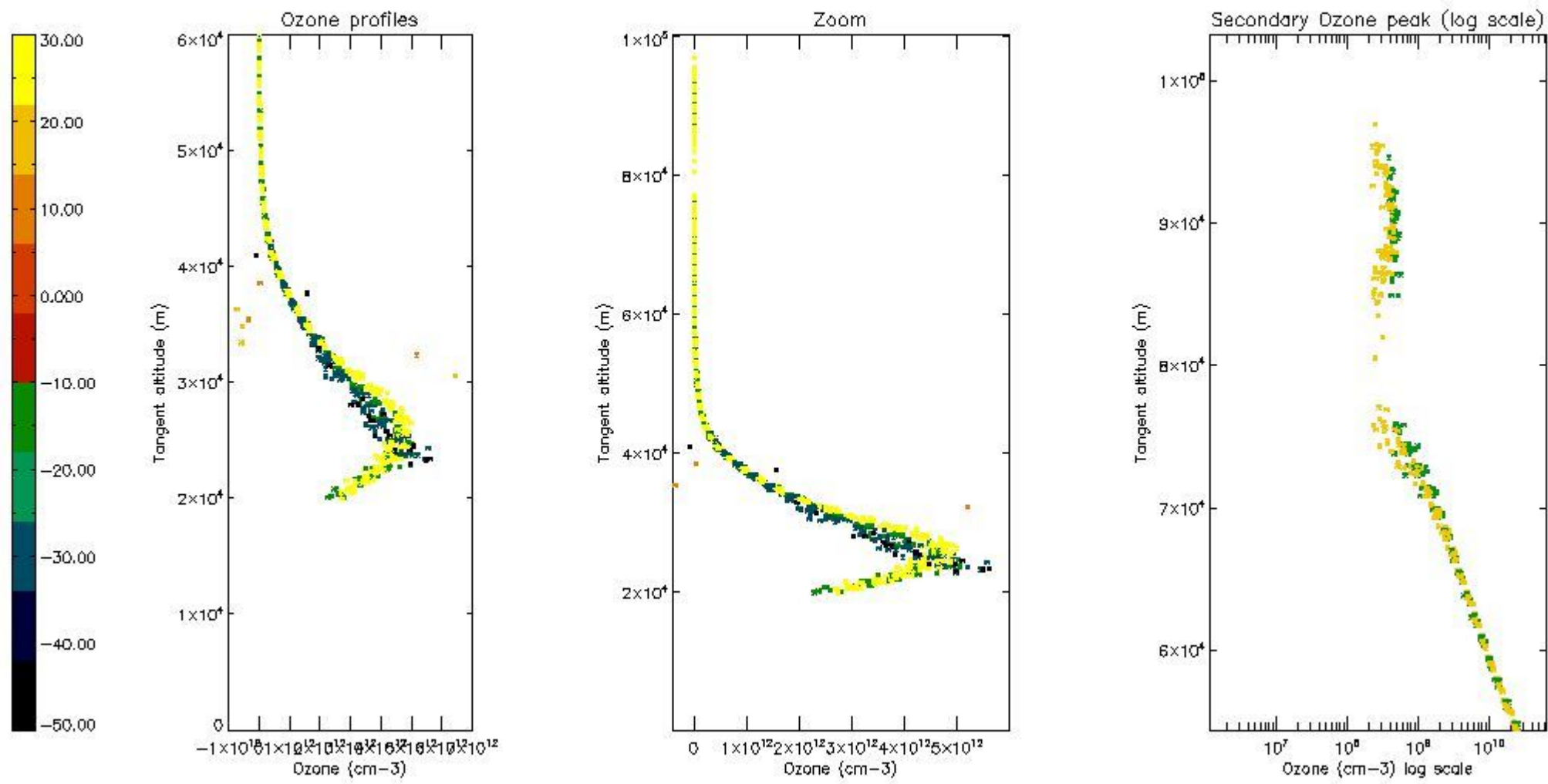
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



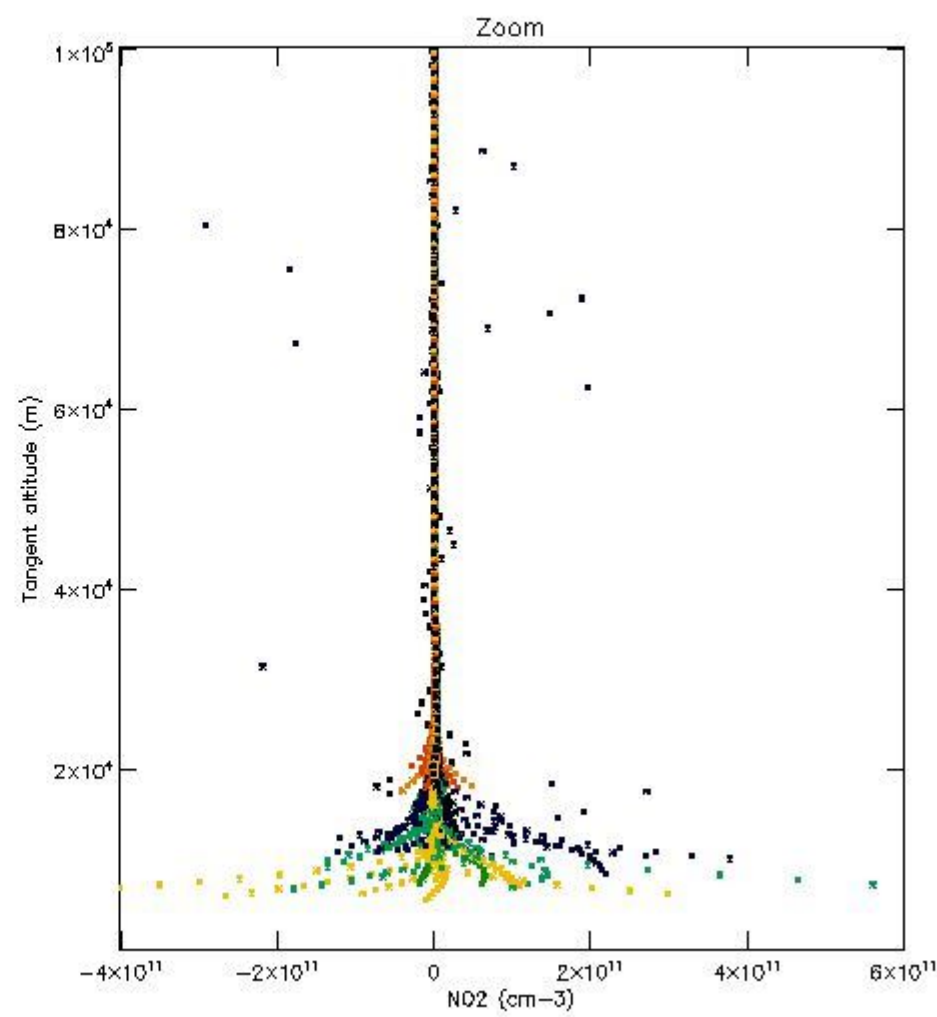
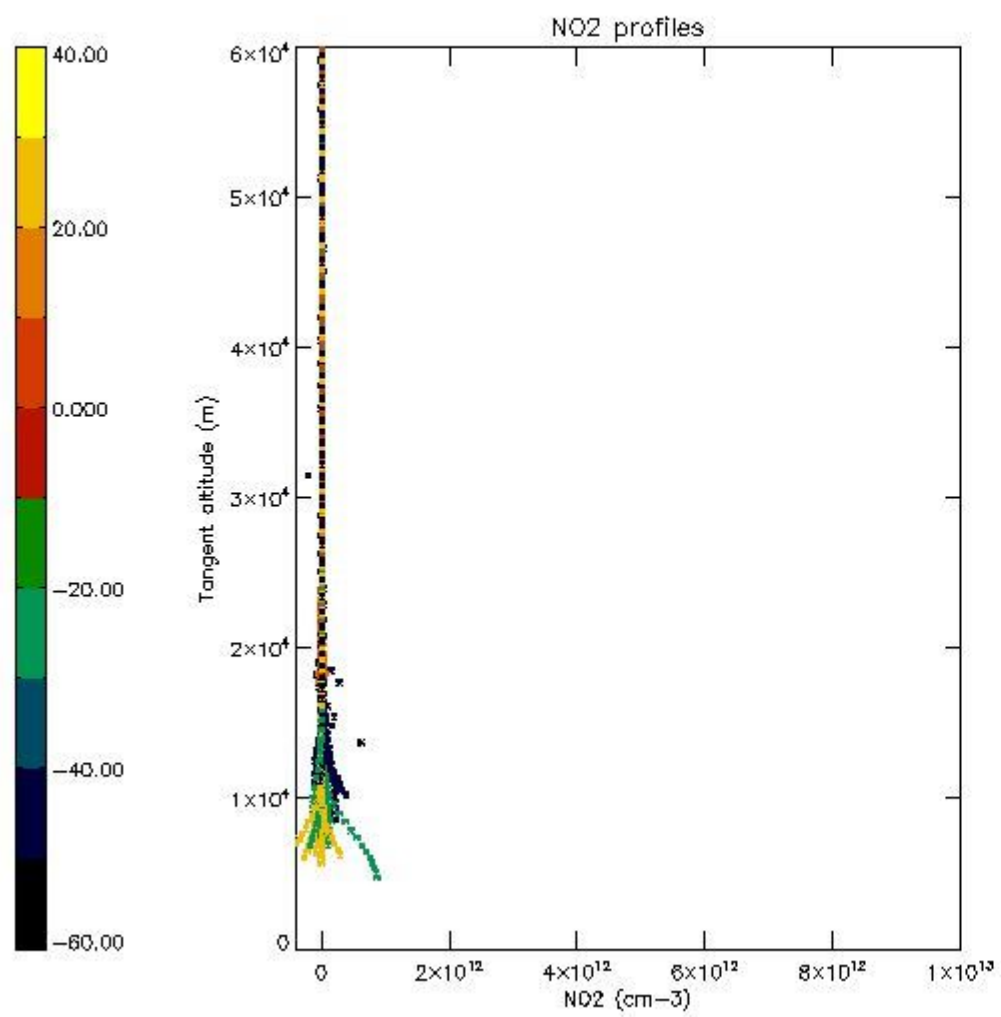
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



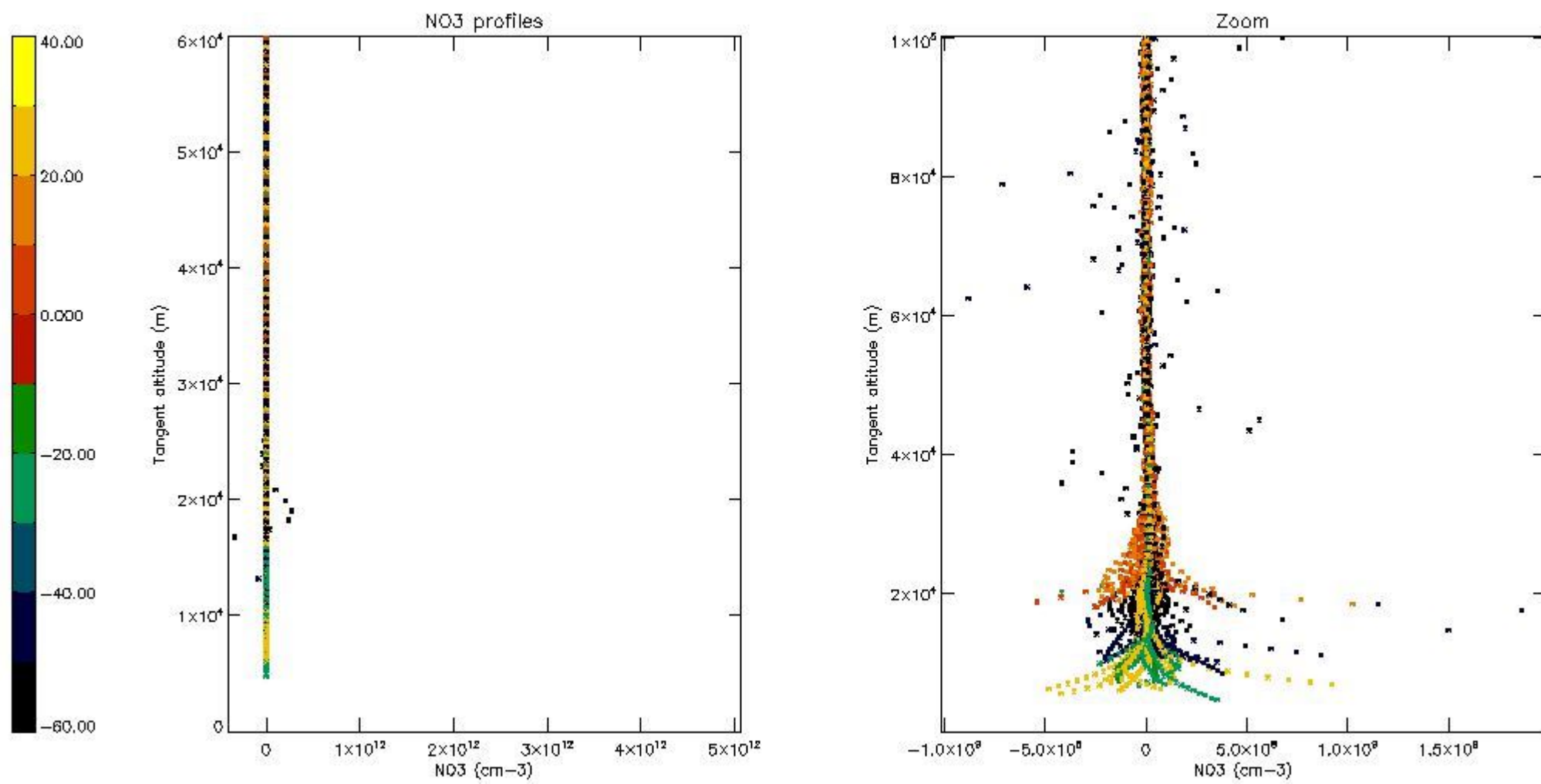
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



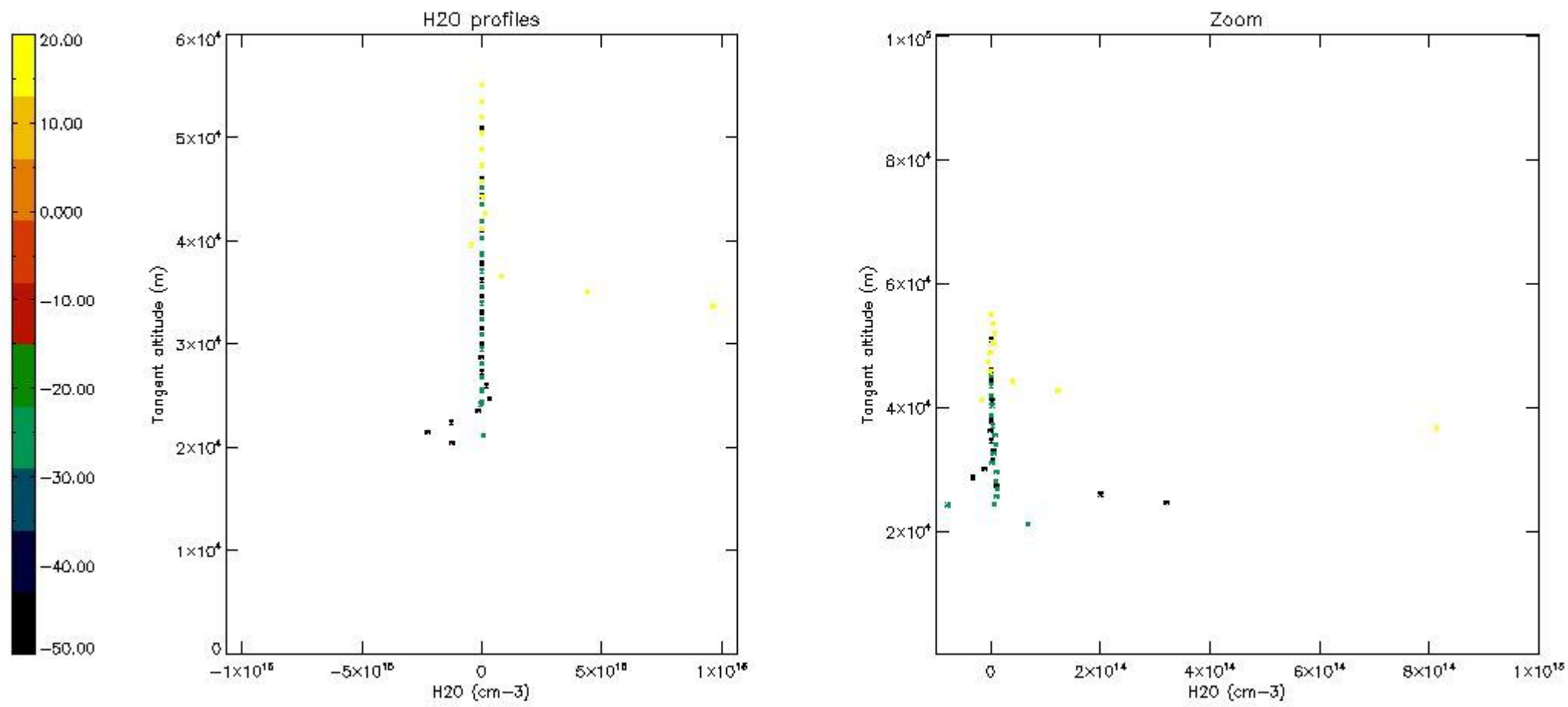
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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)

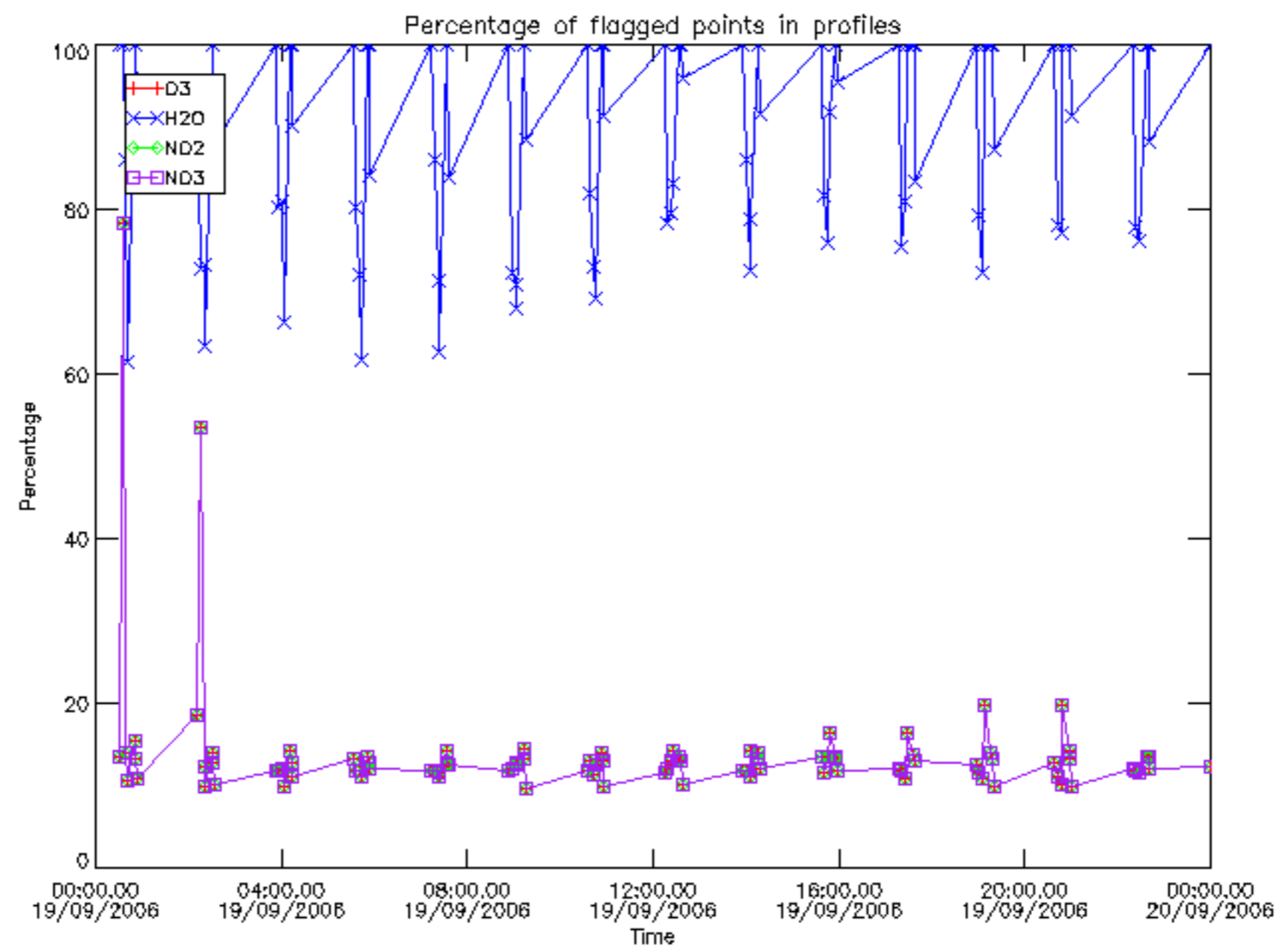
The colorbar represents the latitude.



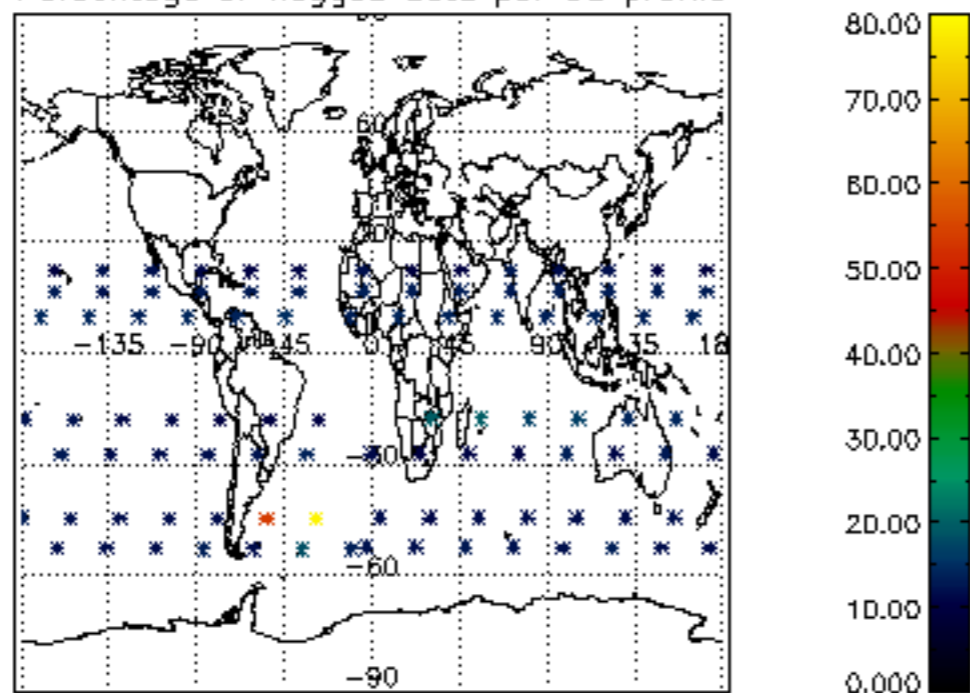
6. Auxiliary Data Files used for the production reported in section 2

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.

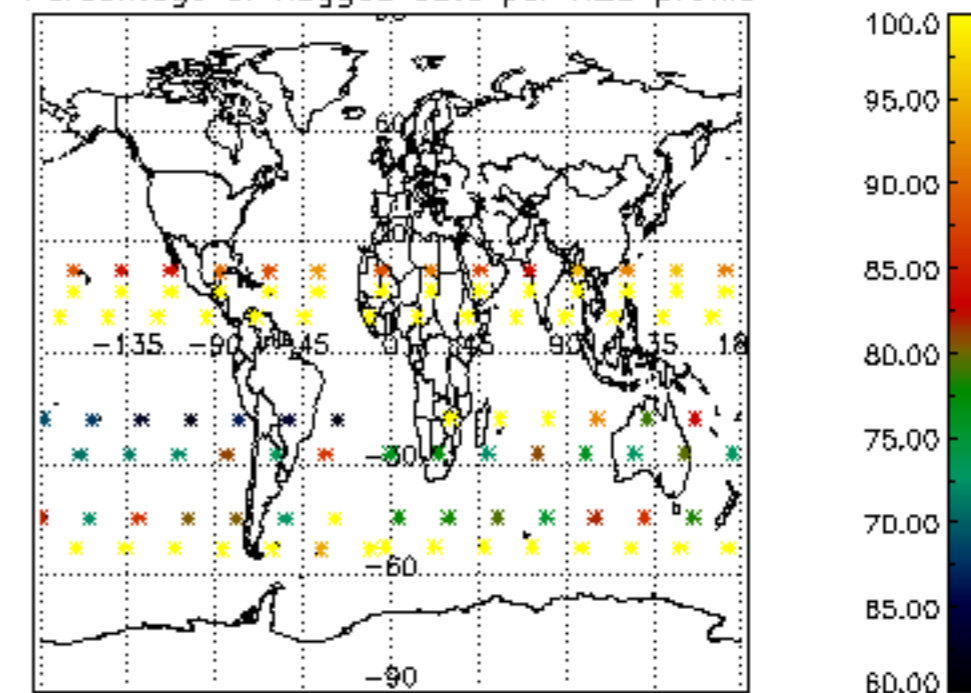
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	19-SEP-2006 00:04:36
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	19-SEP-2006 00:04:36
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	19-SEP-2006 00:04:36



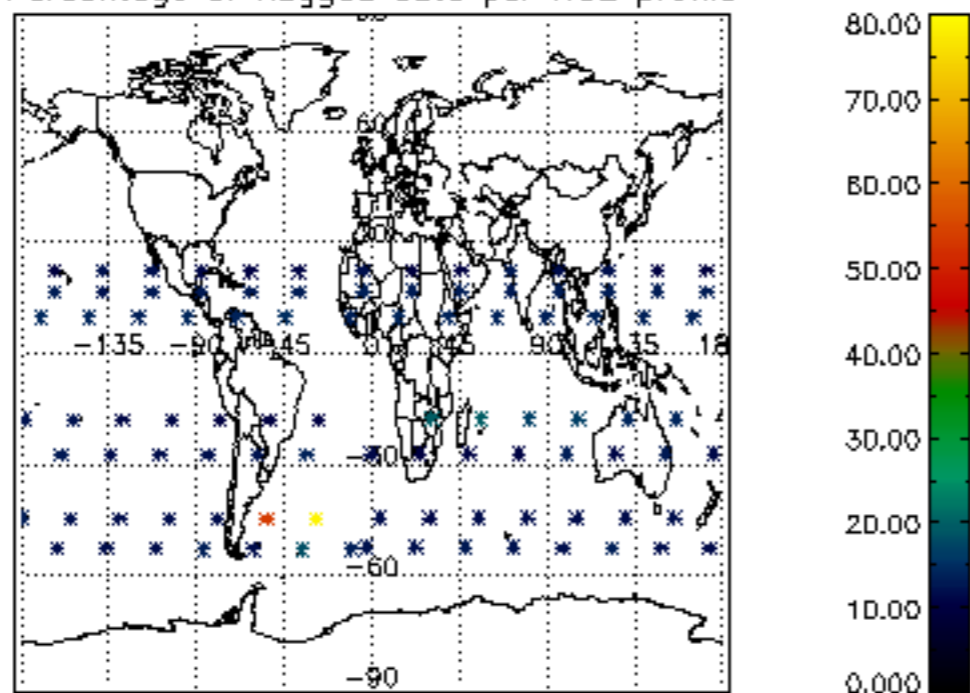
Percentage of flagged data per D3 profile



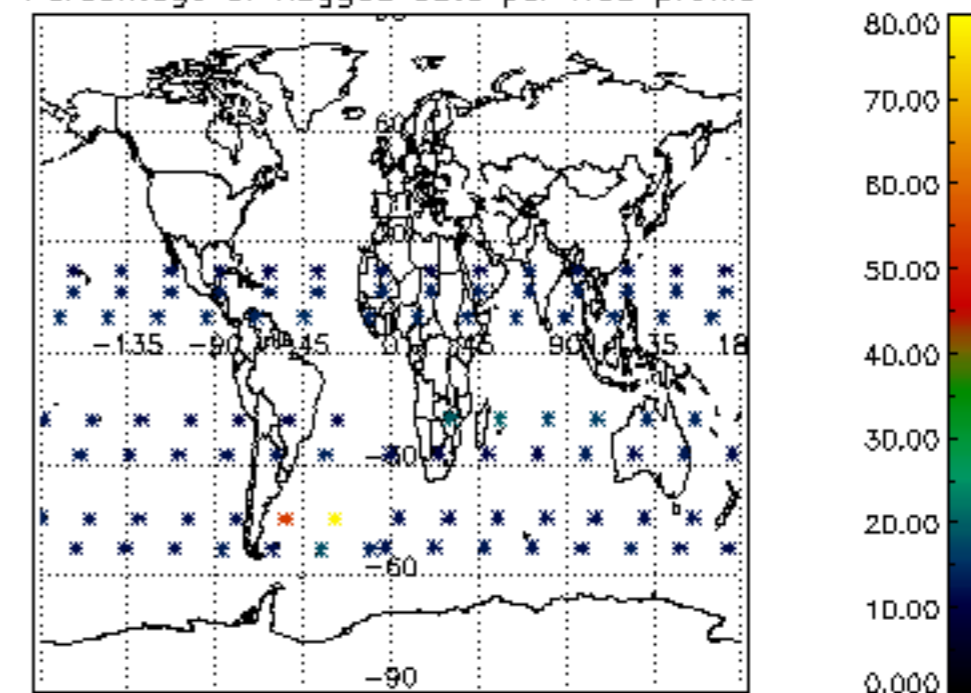
Percentage of flagged data per H2O profile

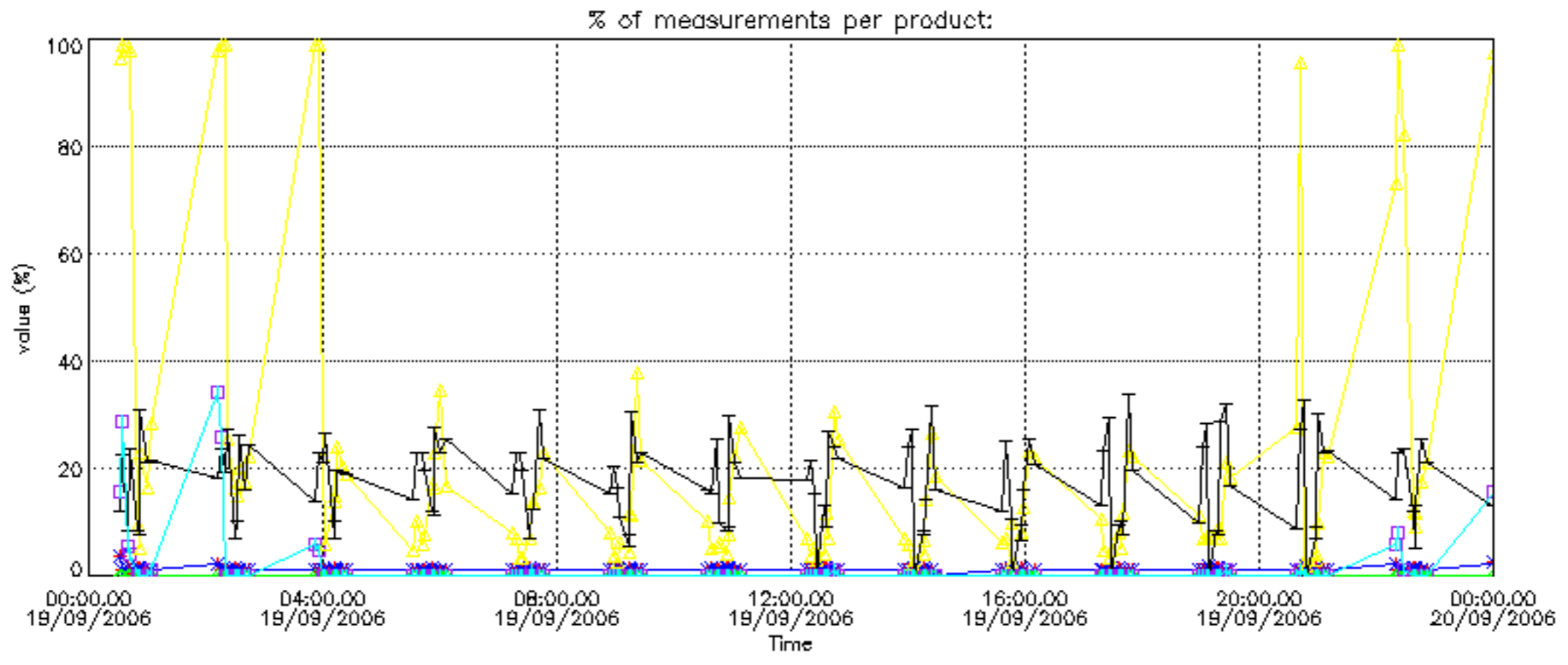


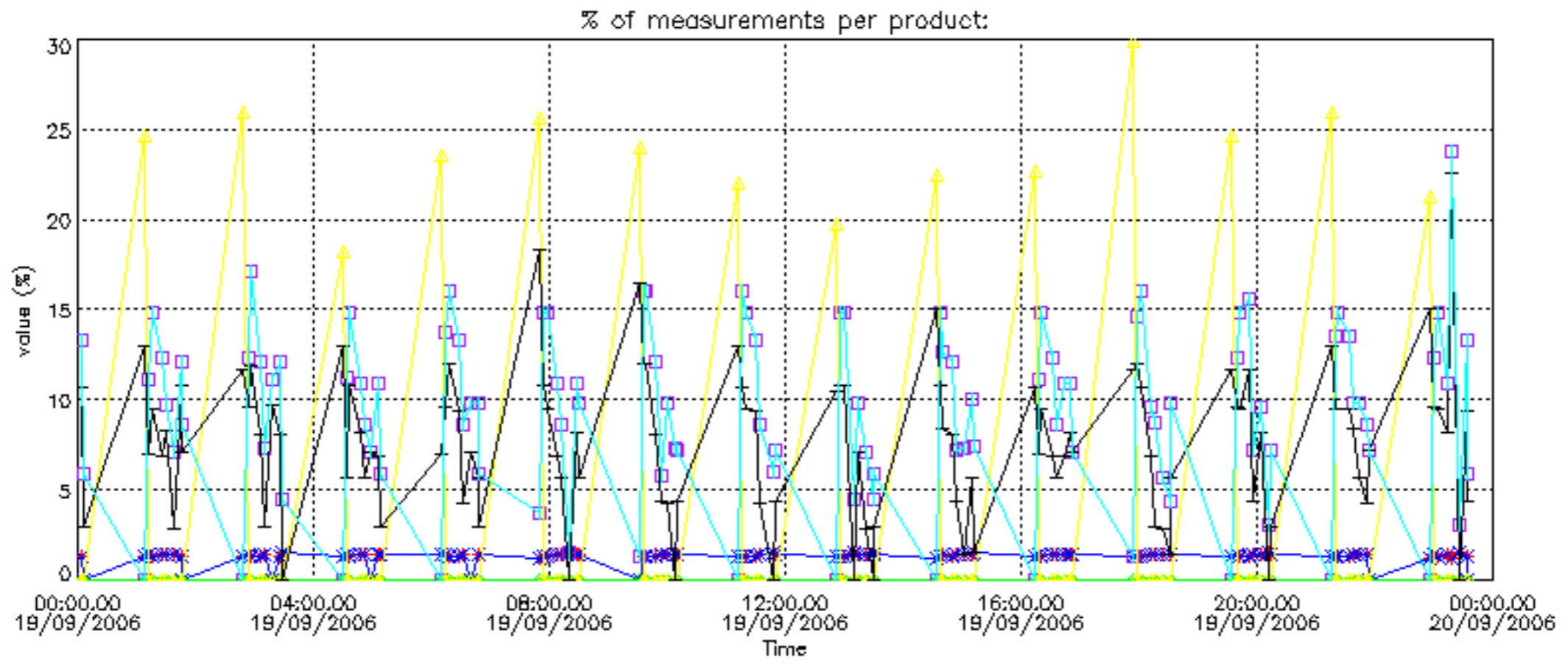
Percentage of flagged data per NO2 profile



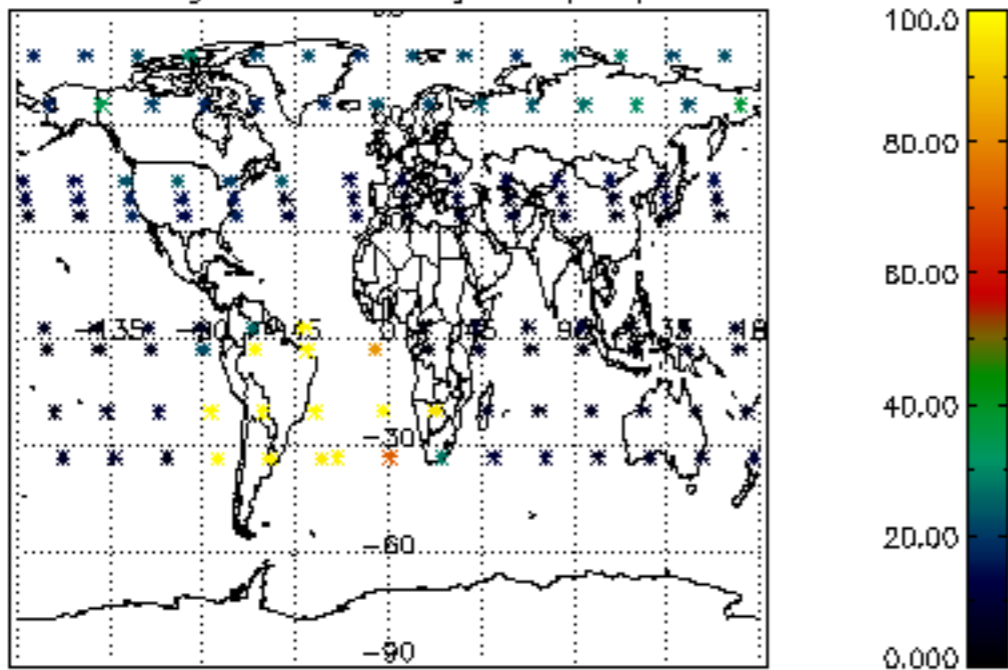
Percentage of flagged data per NO3 profile



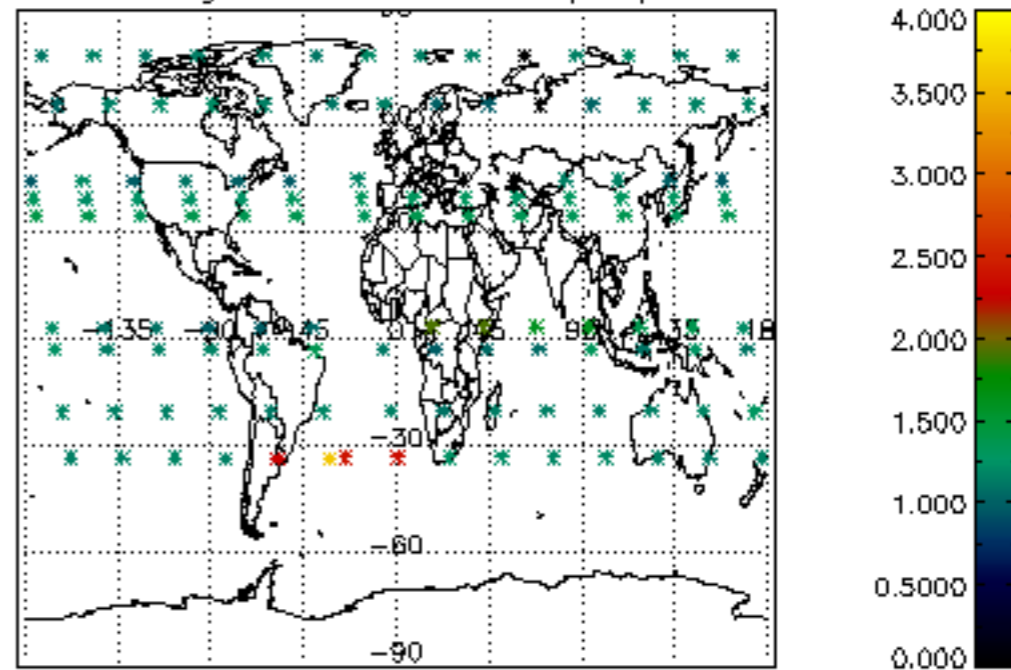




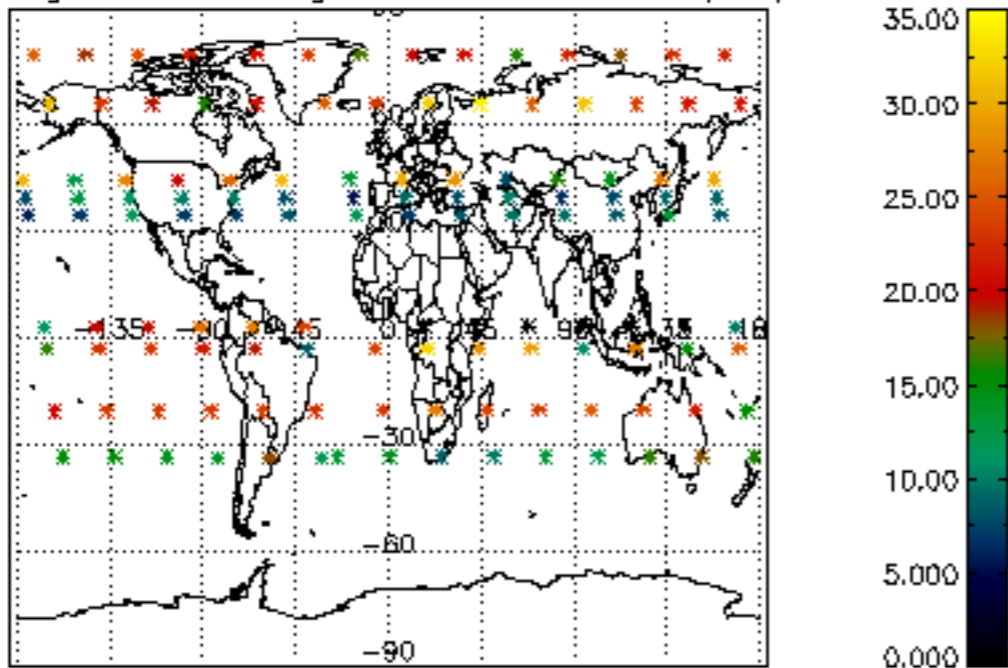
Percentage of cosmic ray hits per profile



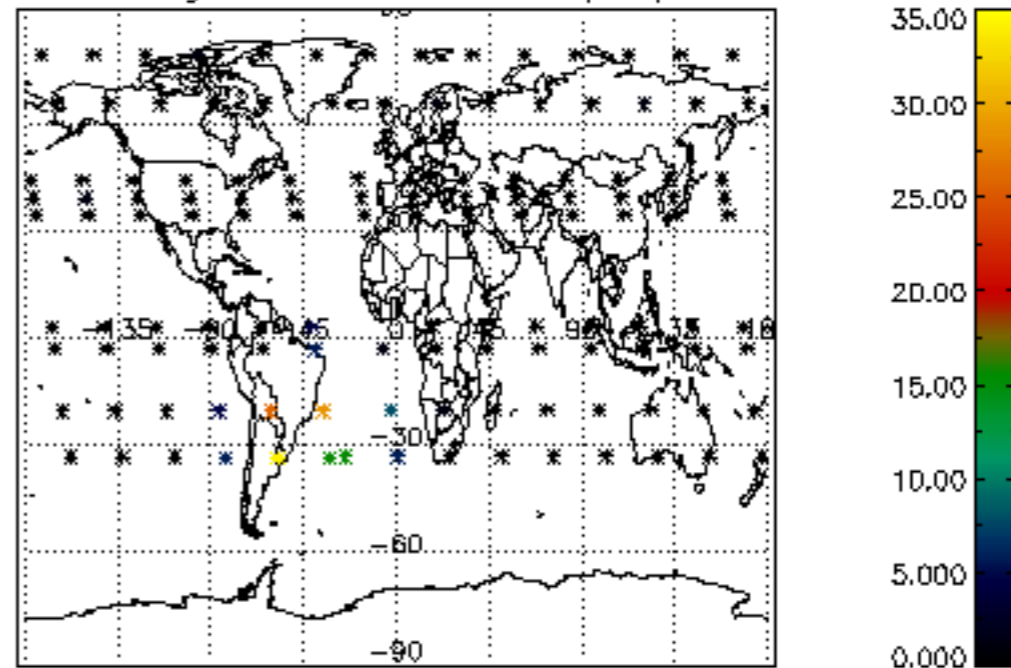
Percentage of datation errors per profile



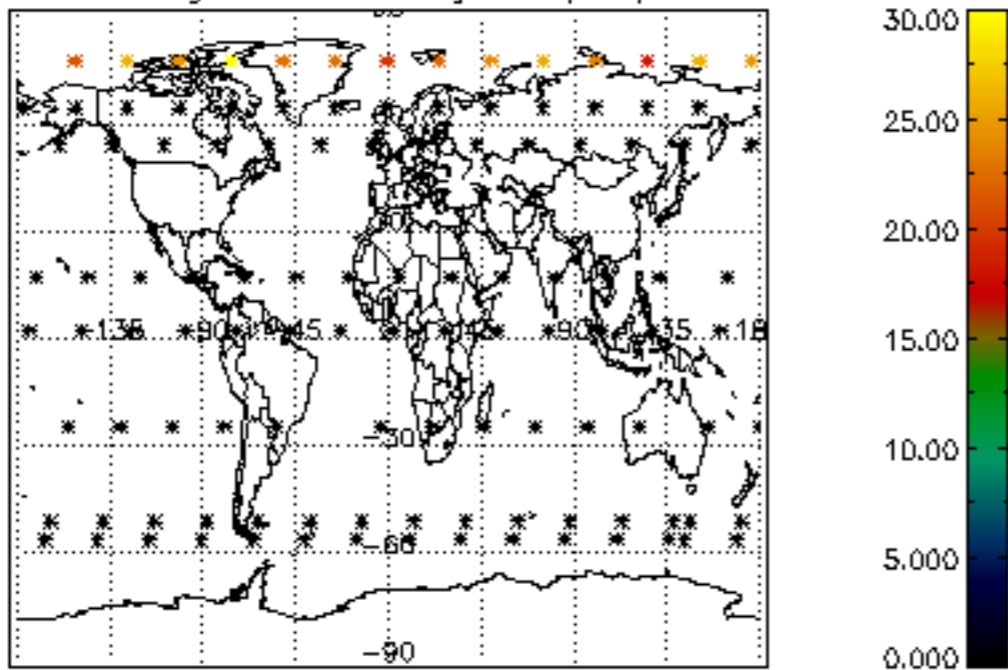
Percentage of star falling outside central band per profile



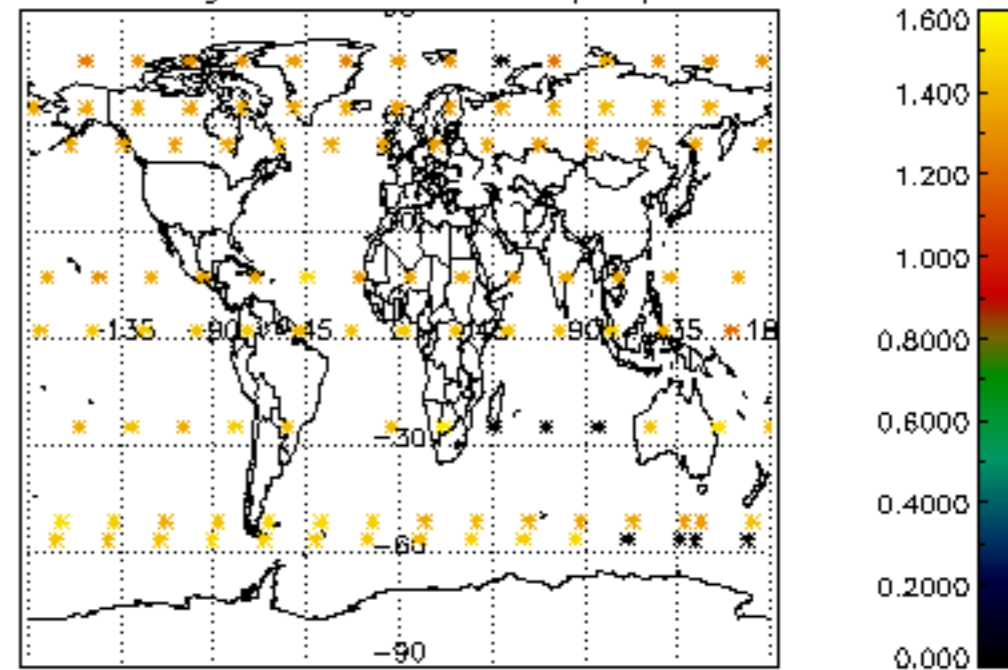
Percentage of saturation errors per profile



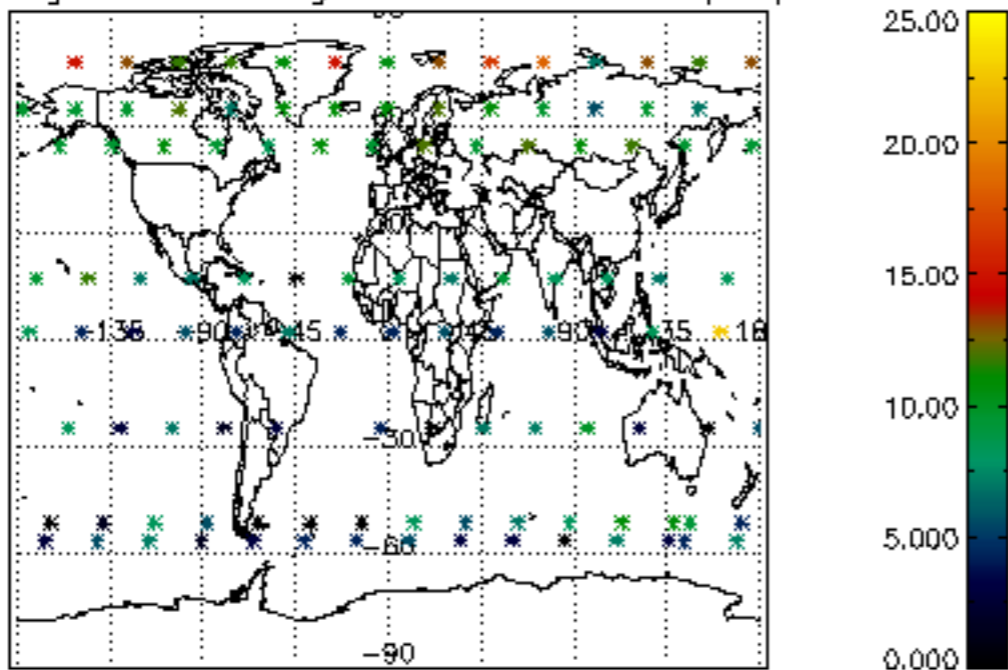
Percentage of cosmic ray hits per profile



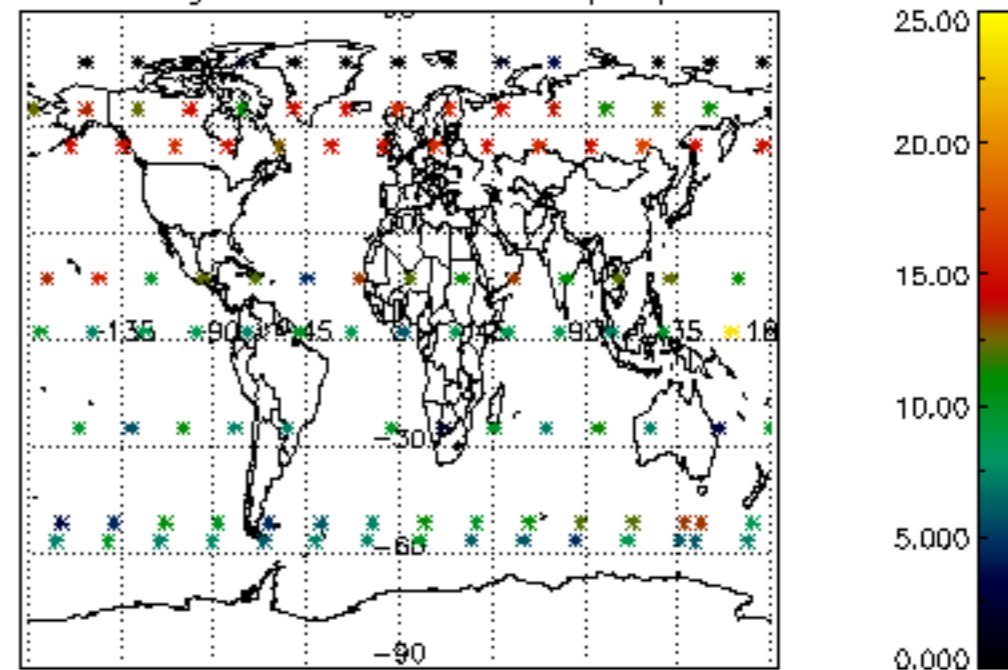
Percentage of datation errors per profile

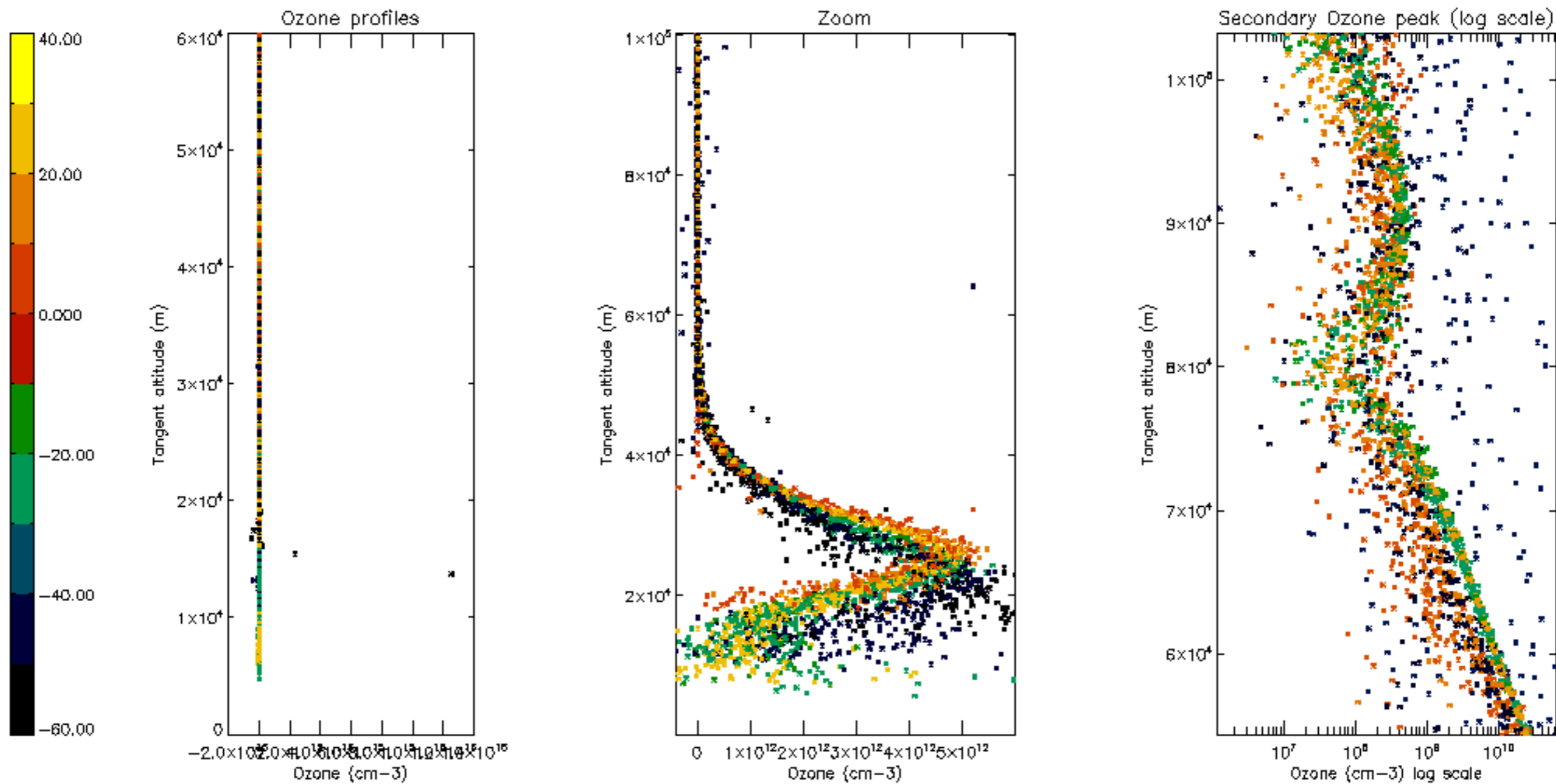


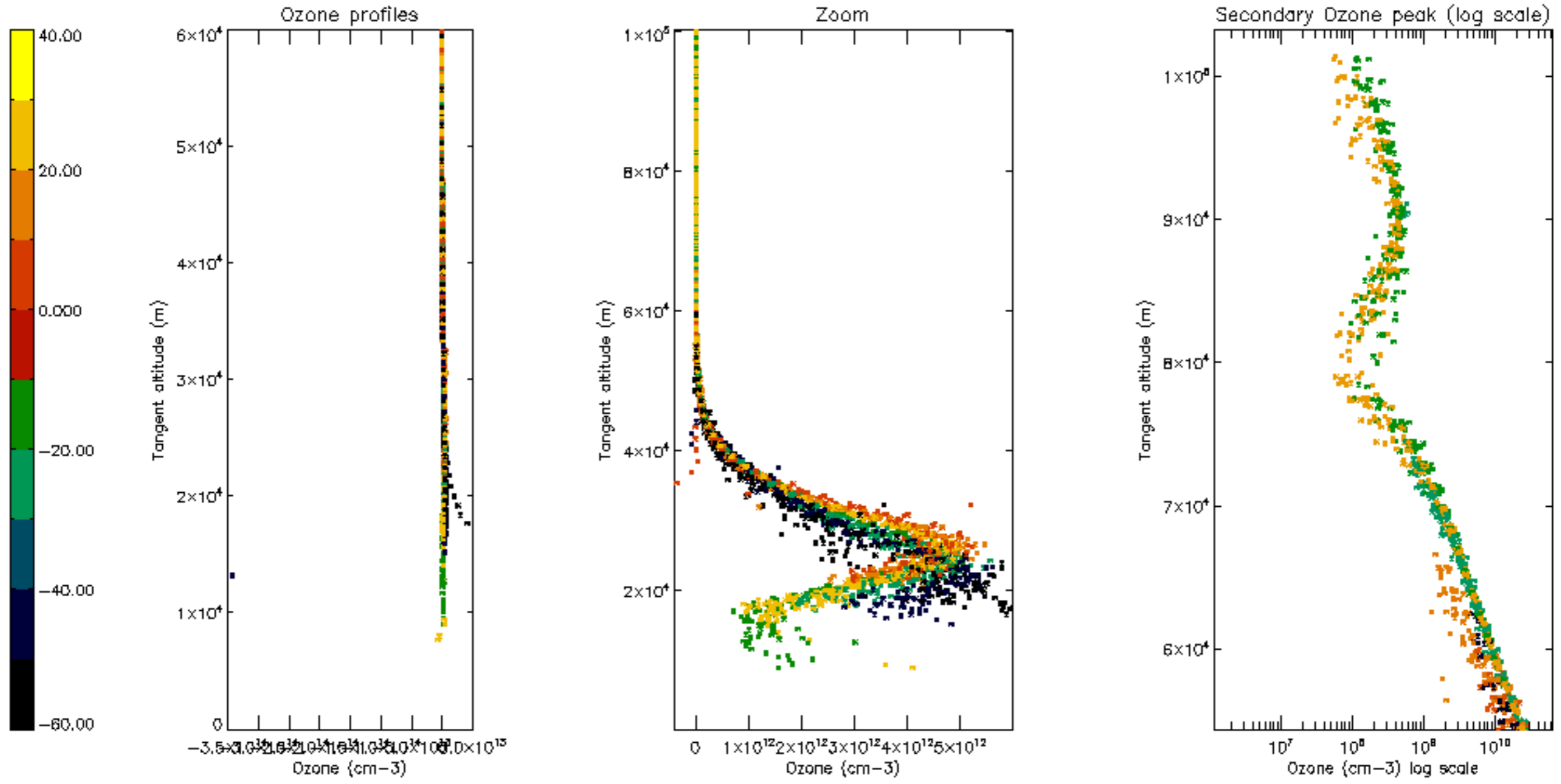
Percentage of star falling outside central band per profile

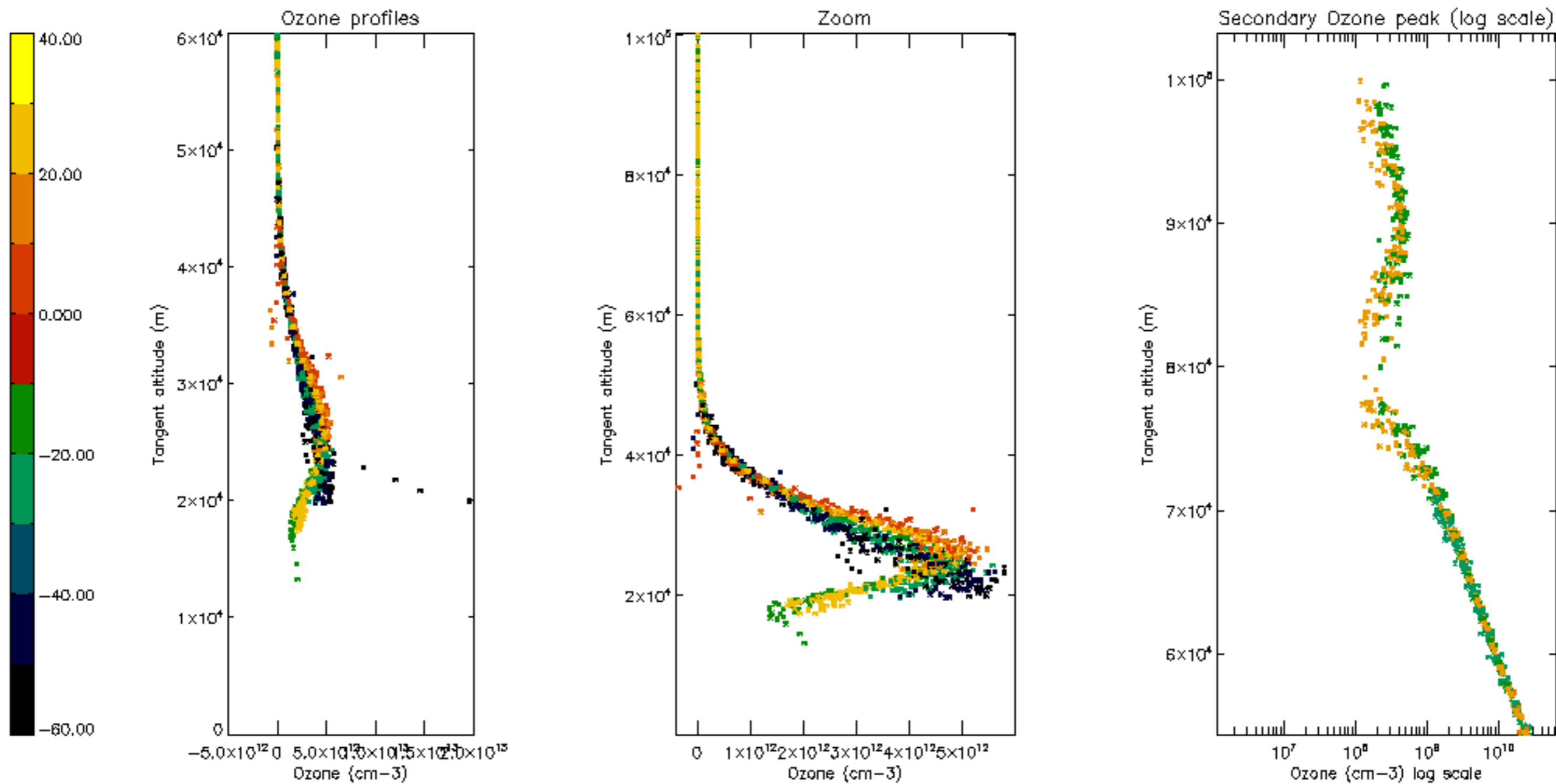


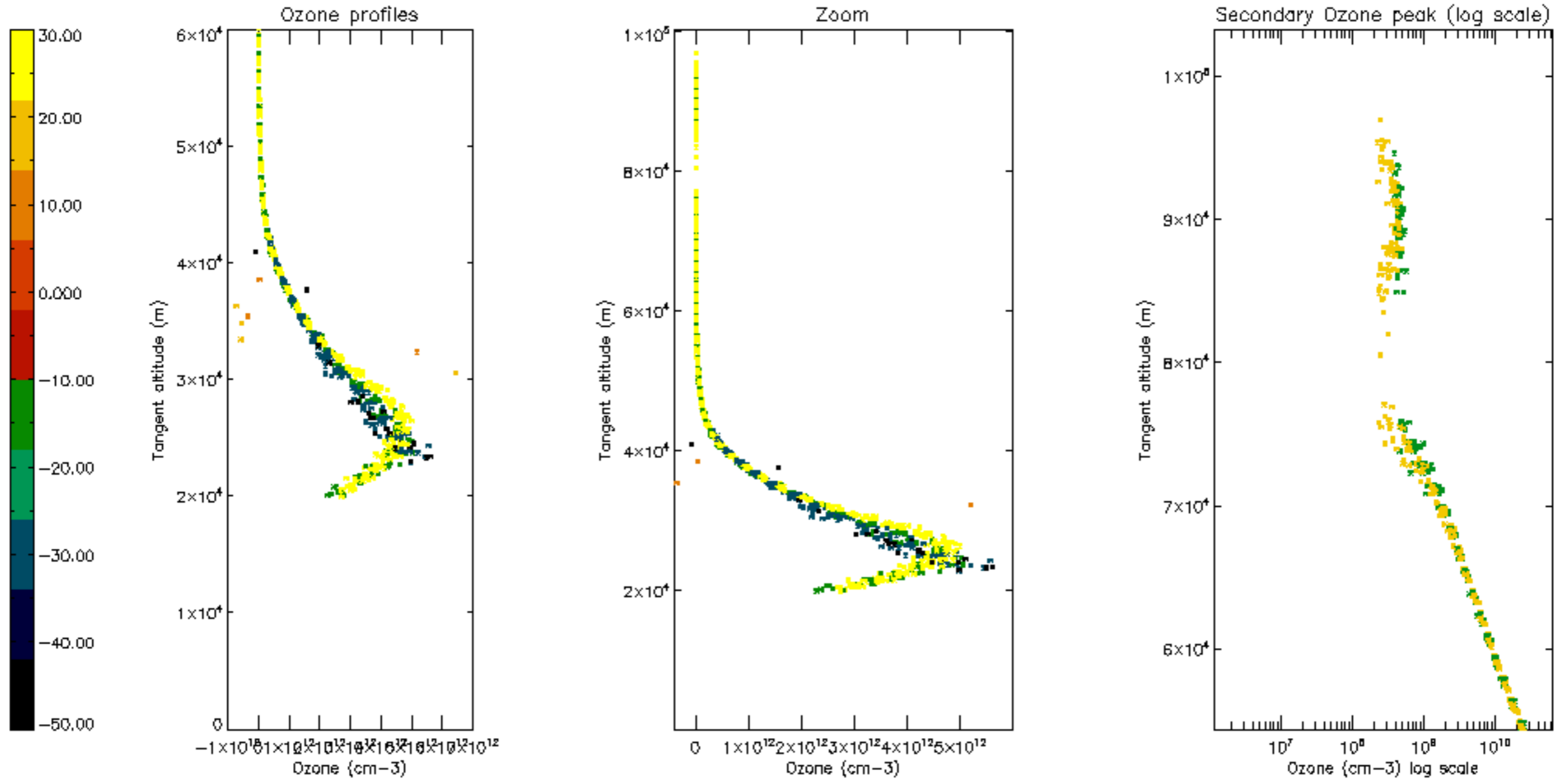
Percentage of saturation errors per profile

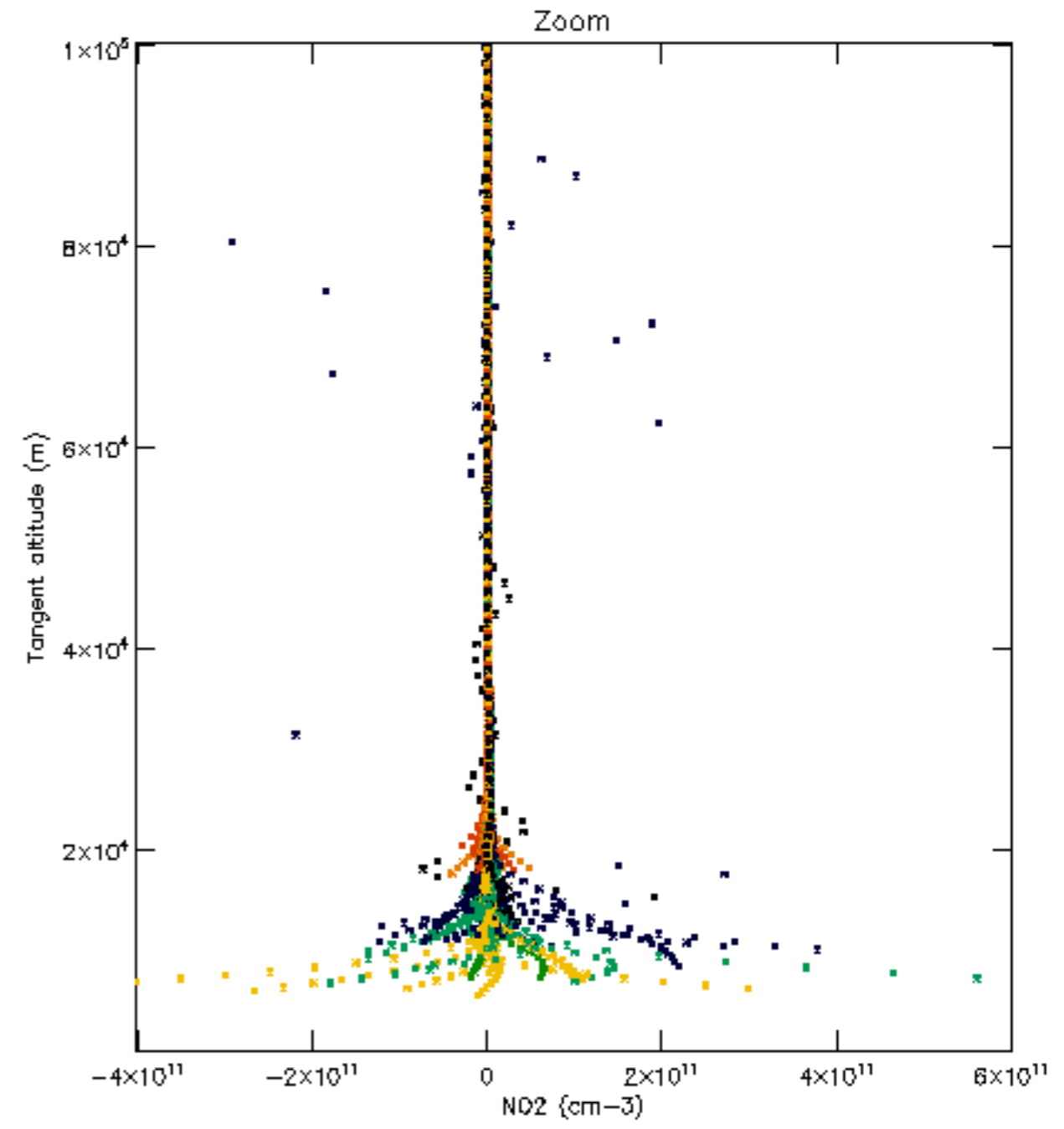
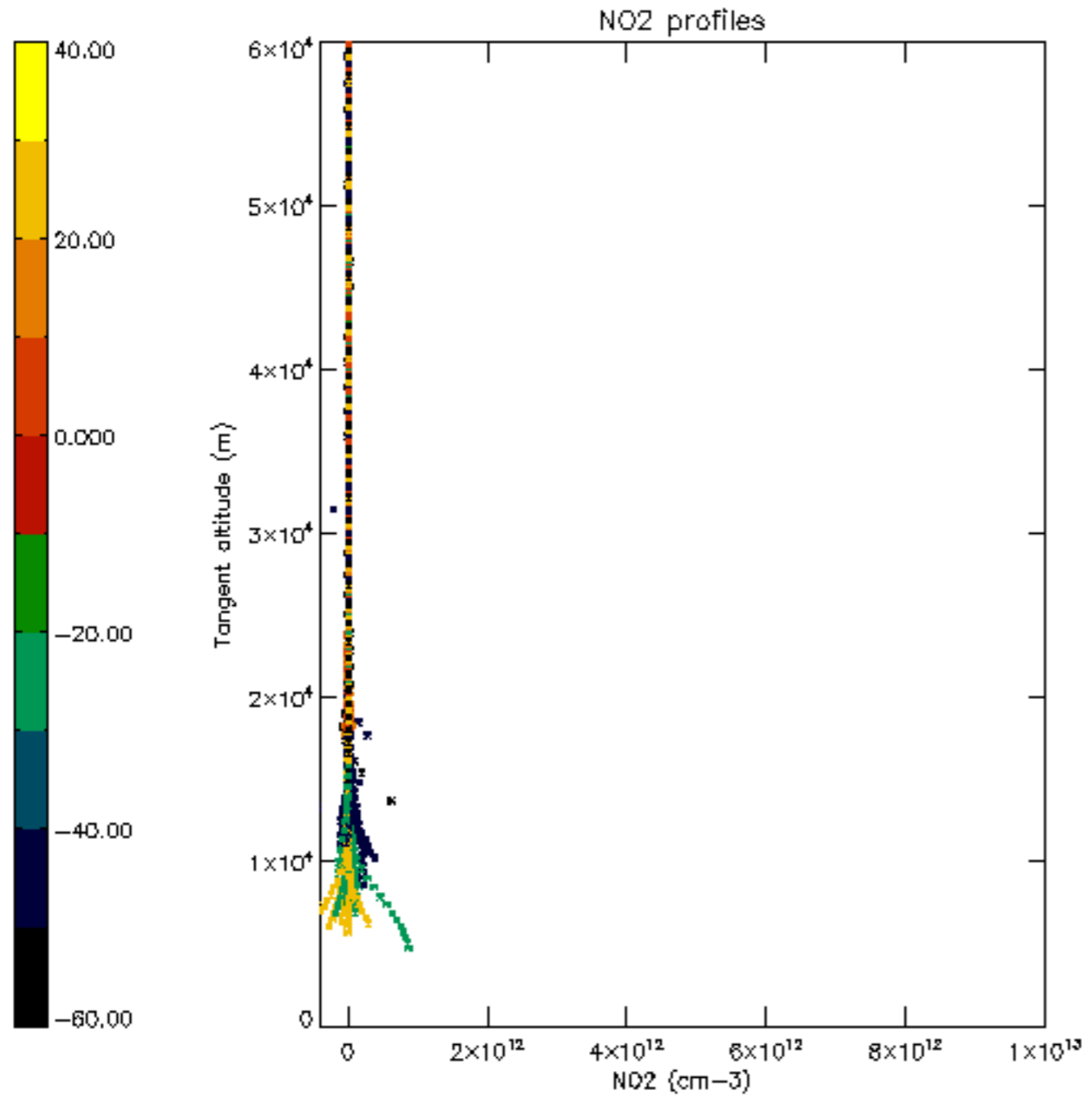


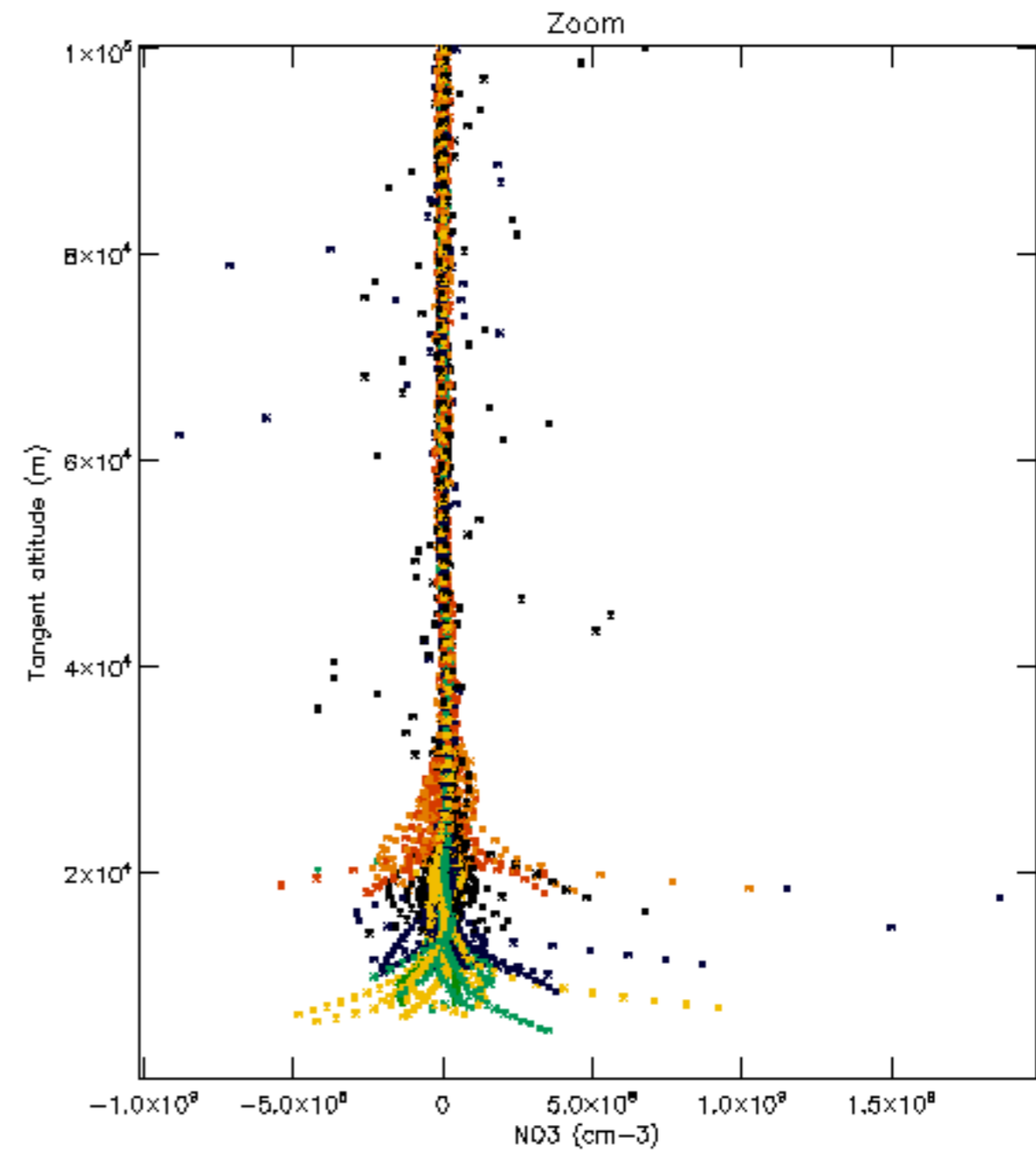
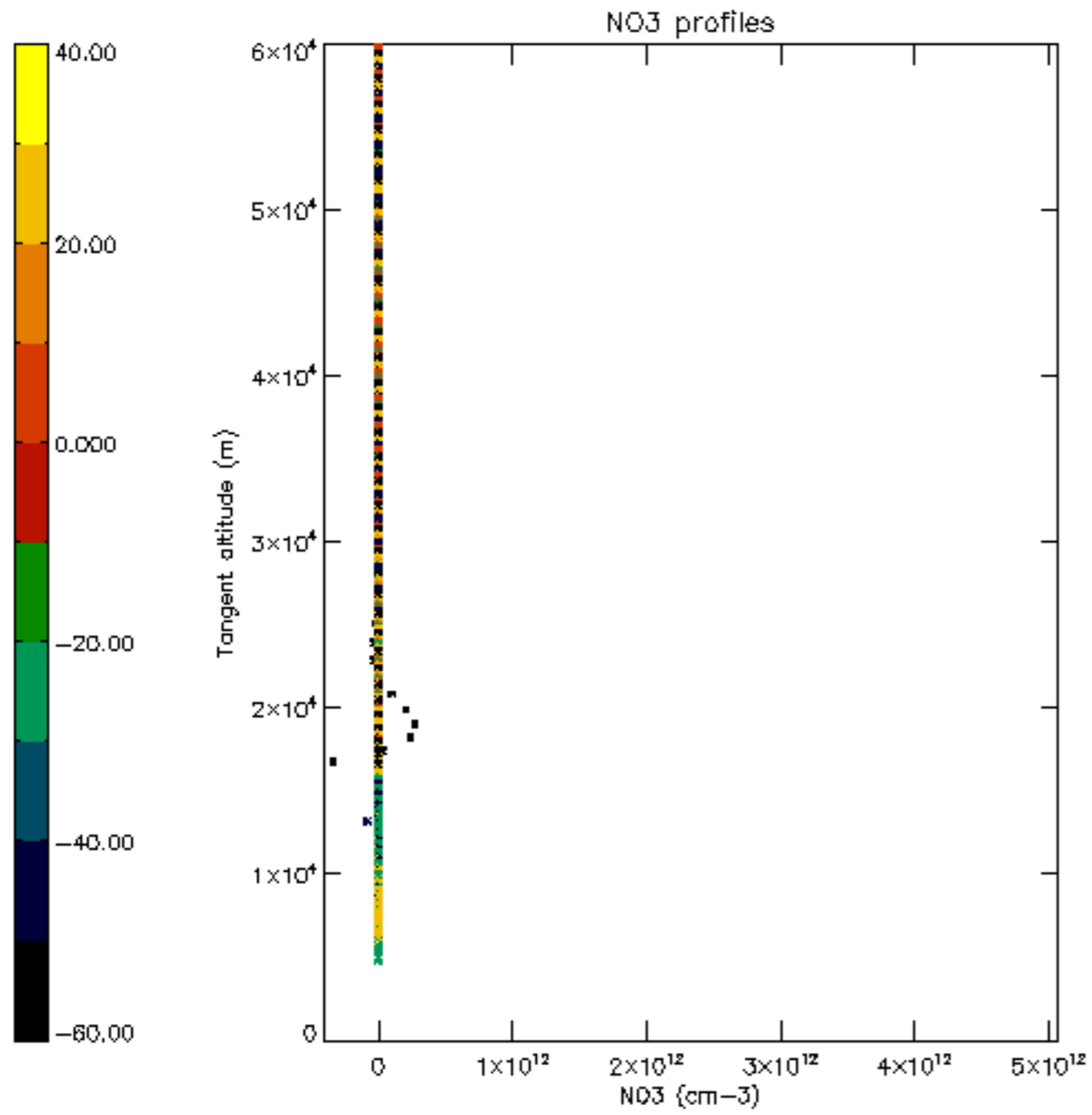


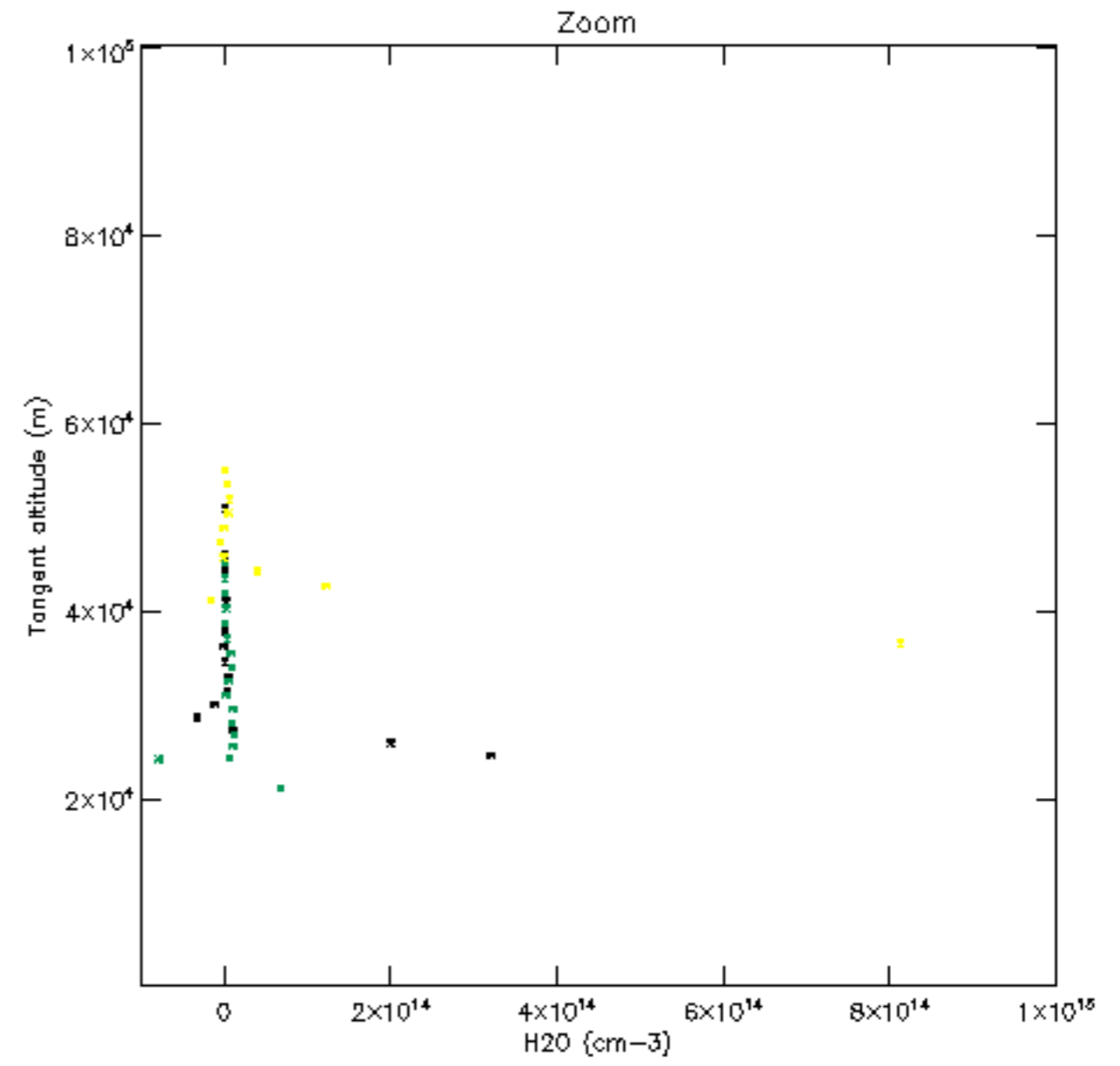
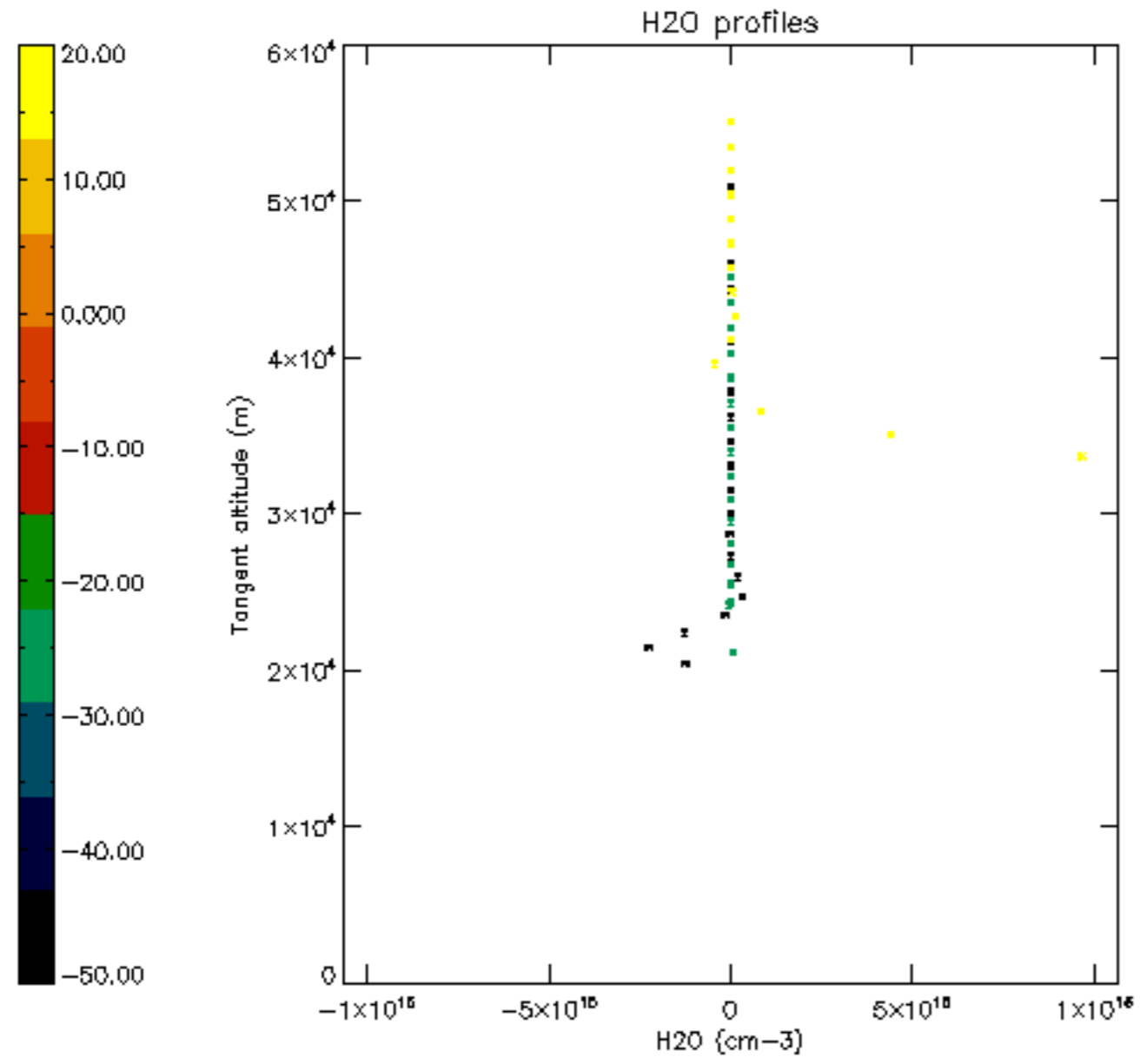


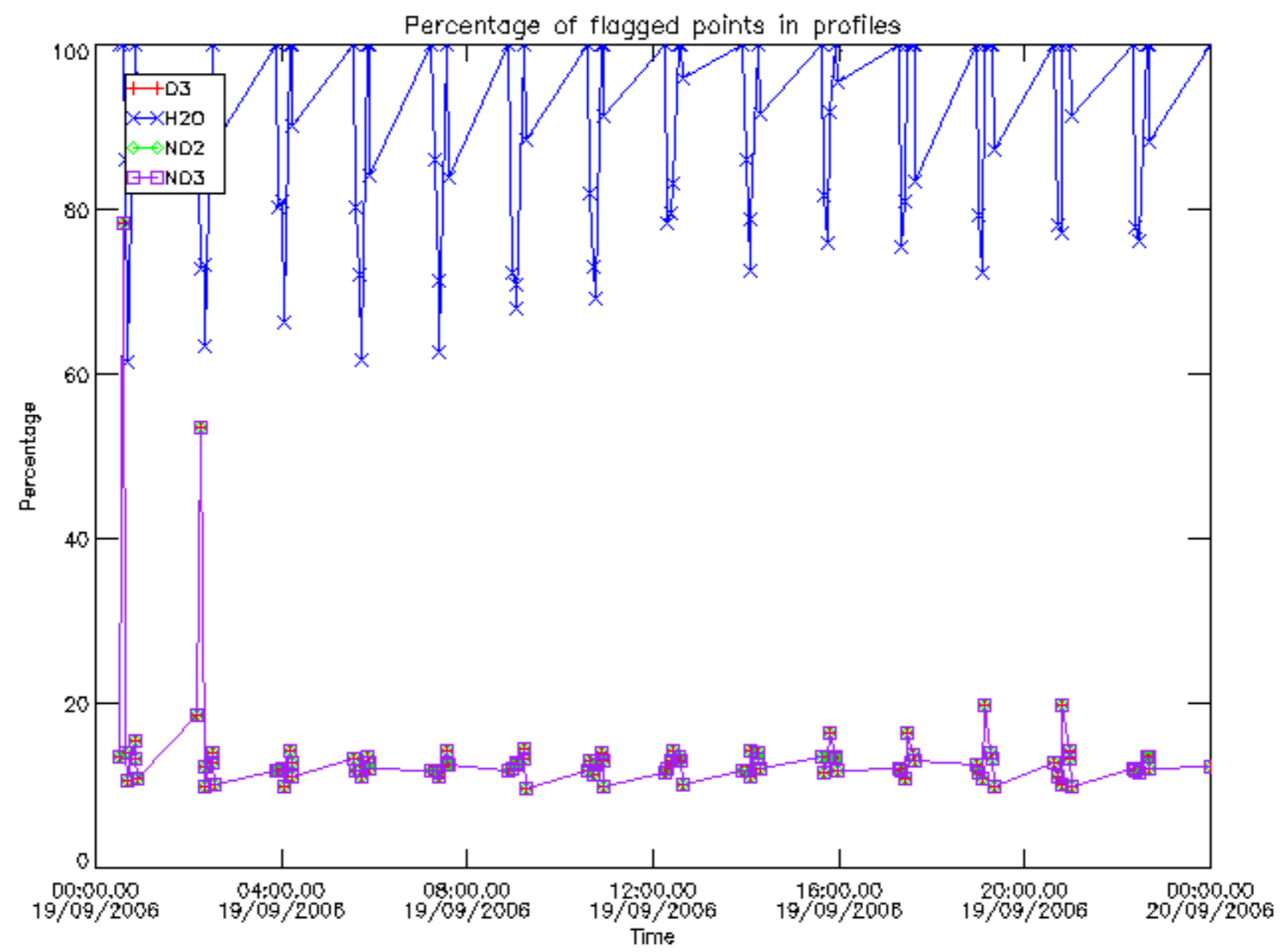




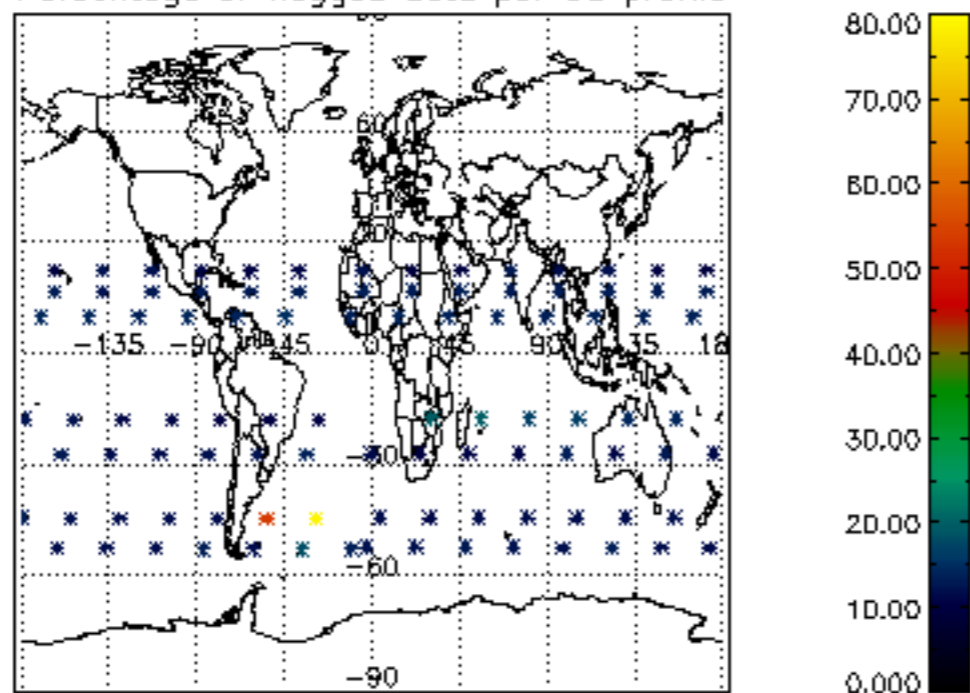




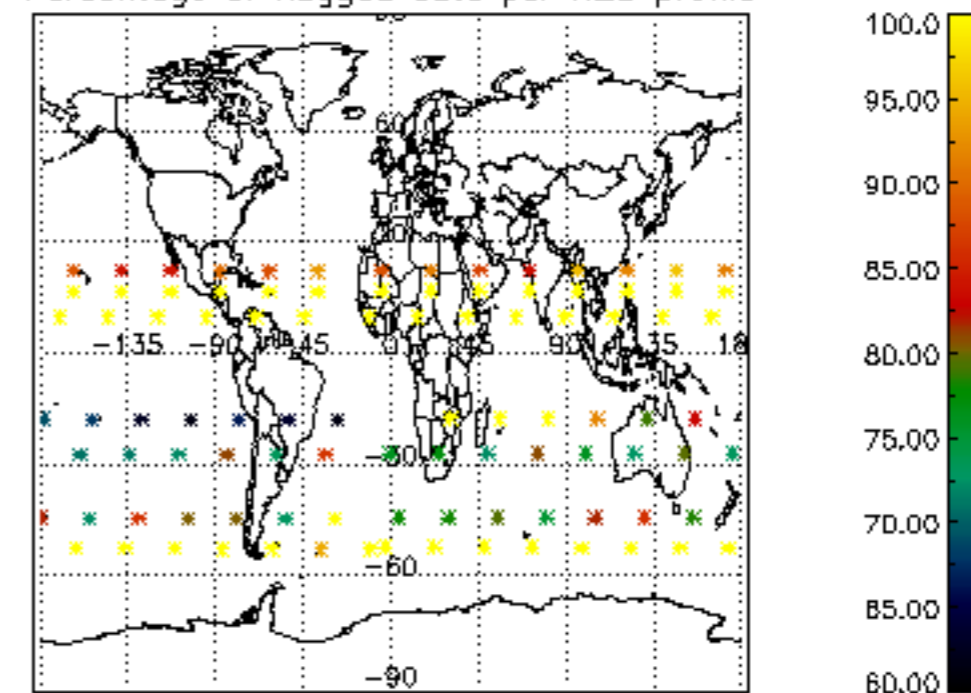




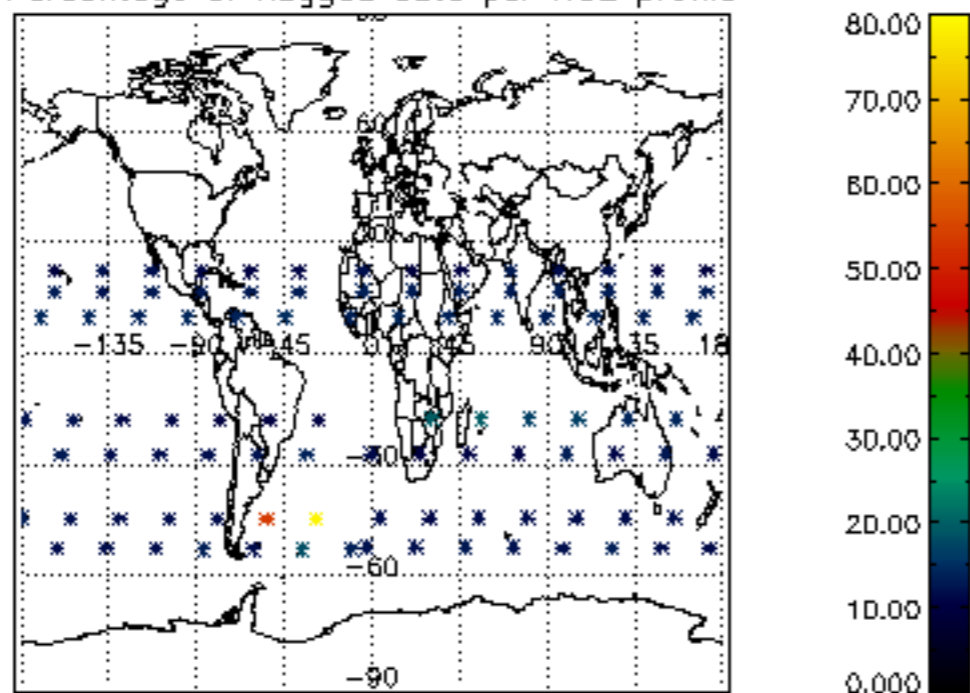
Percentage of flagged data per D3 profile



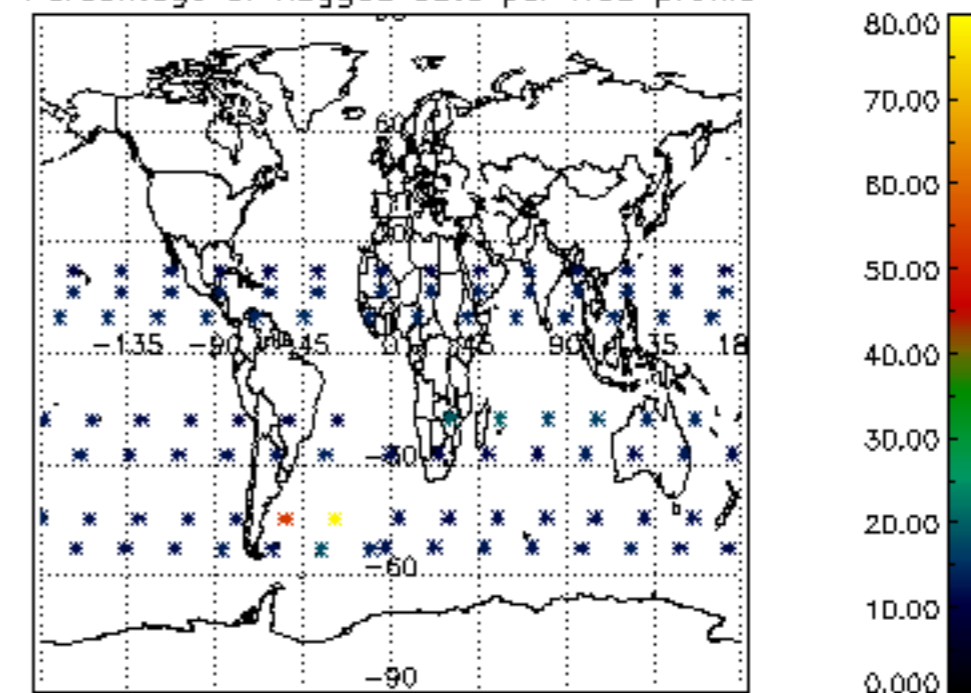
Percentage of flagged data per H2O profile

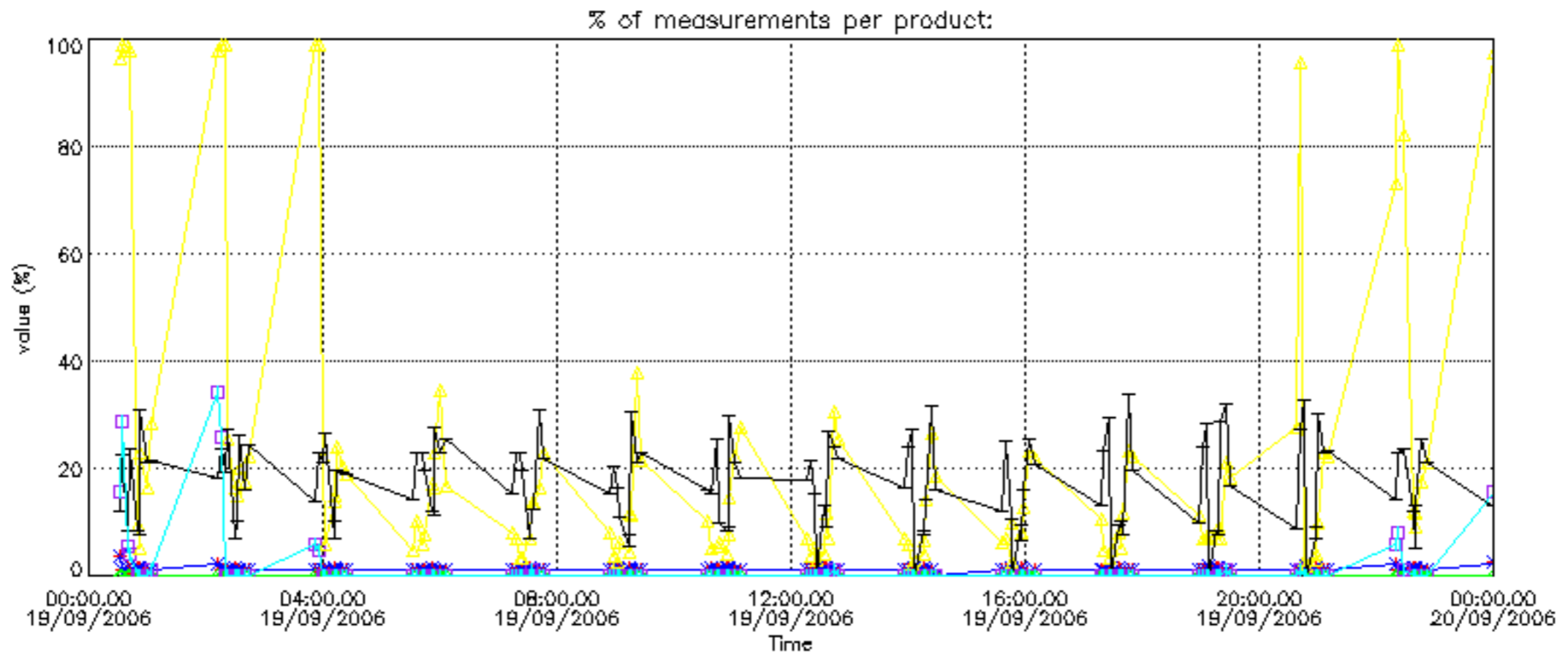


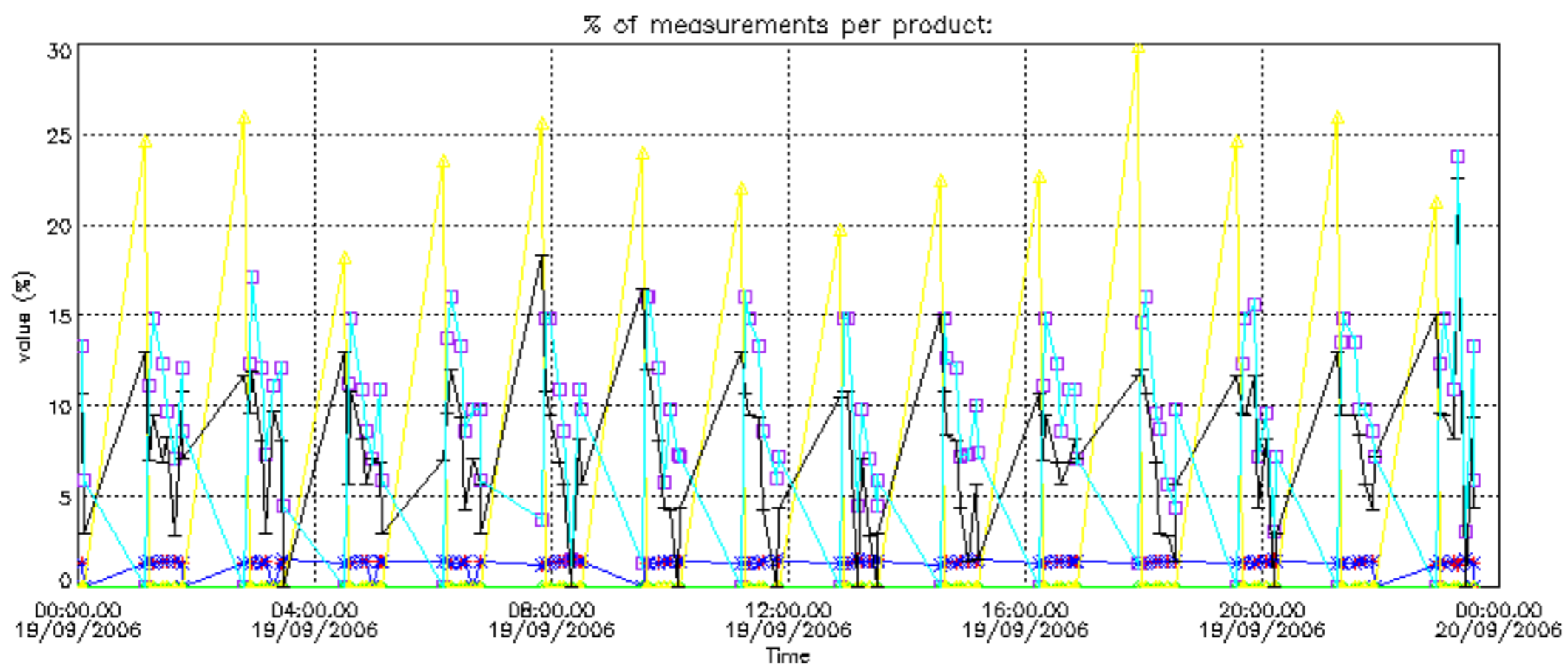
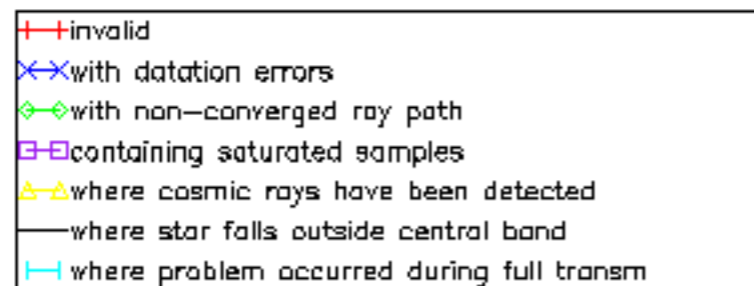
Percentage of flagged data per NO2 profile



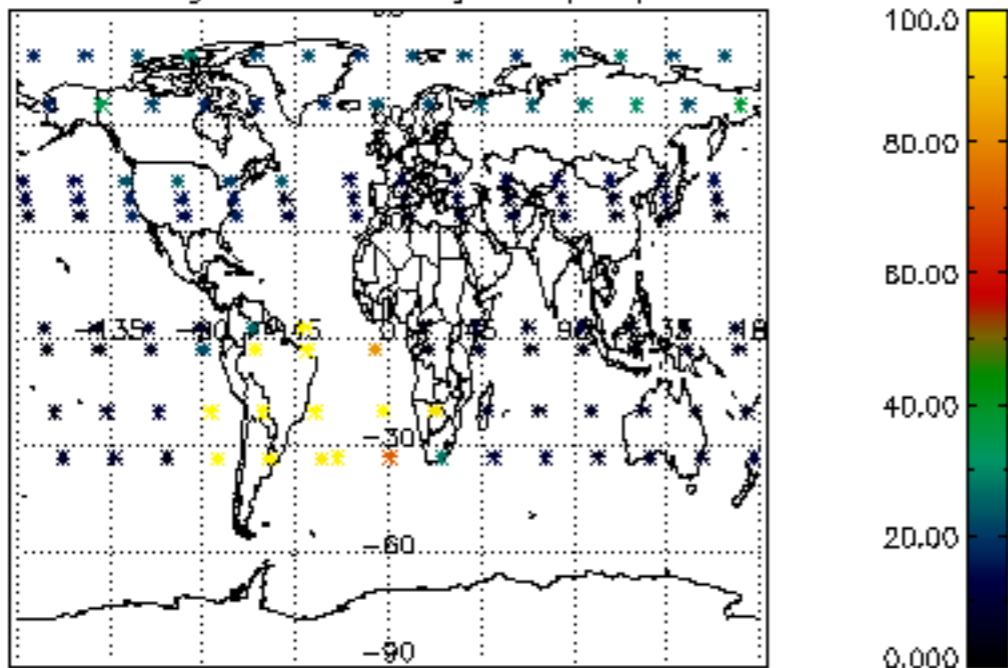
Percentage of flagged data per NO3 profile



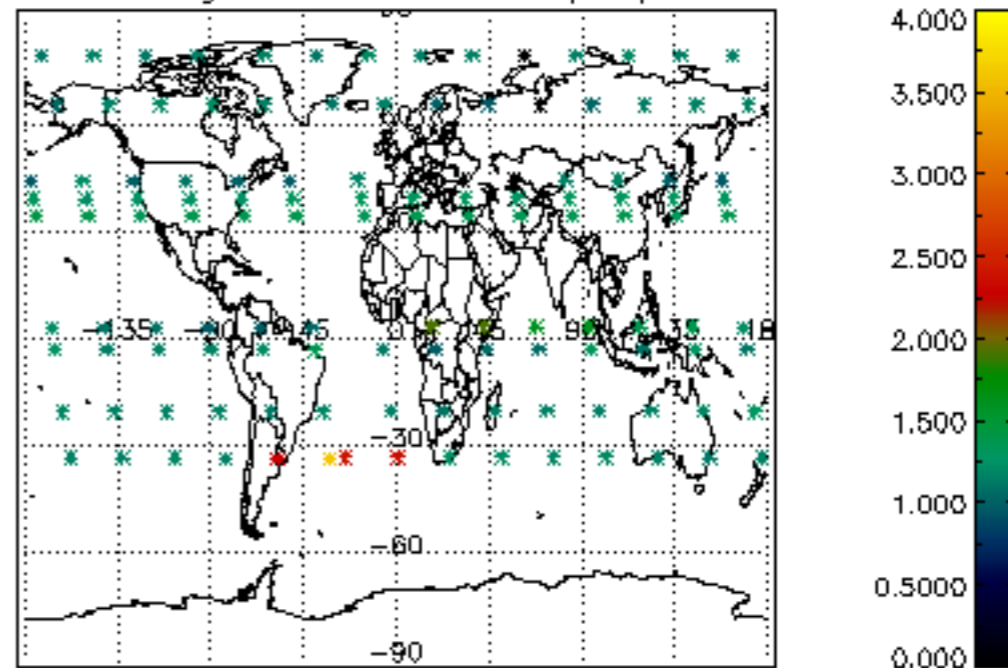




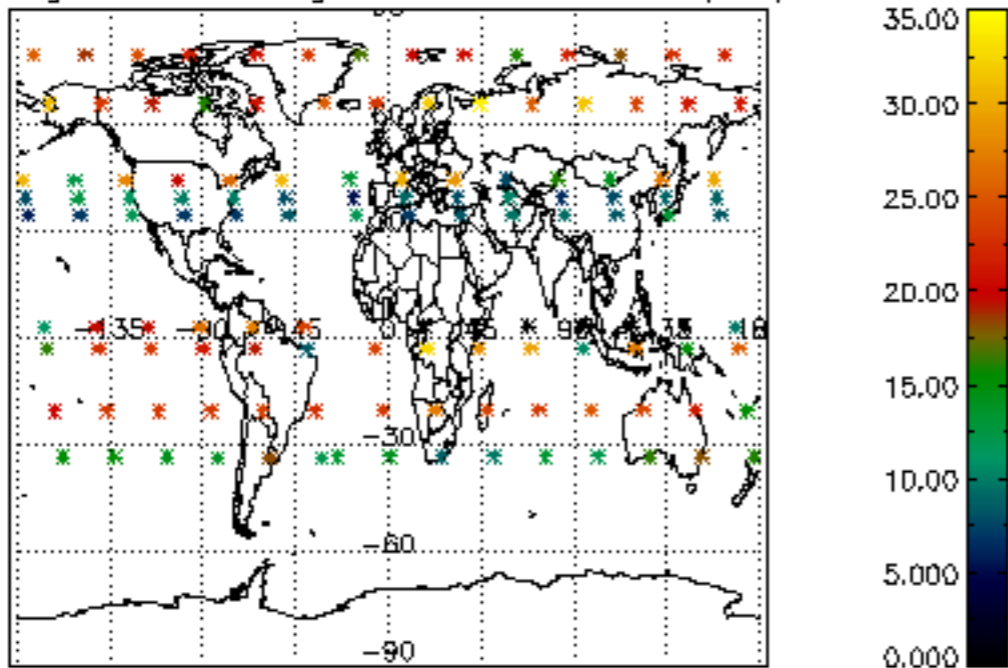
Percentage of cosmic ray hits per profile



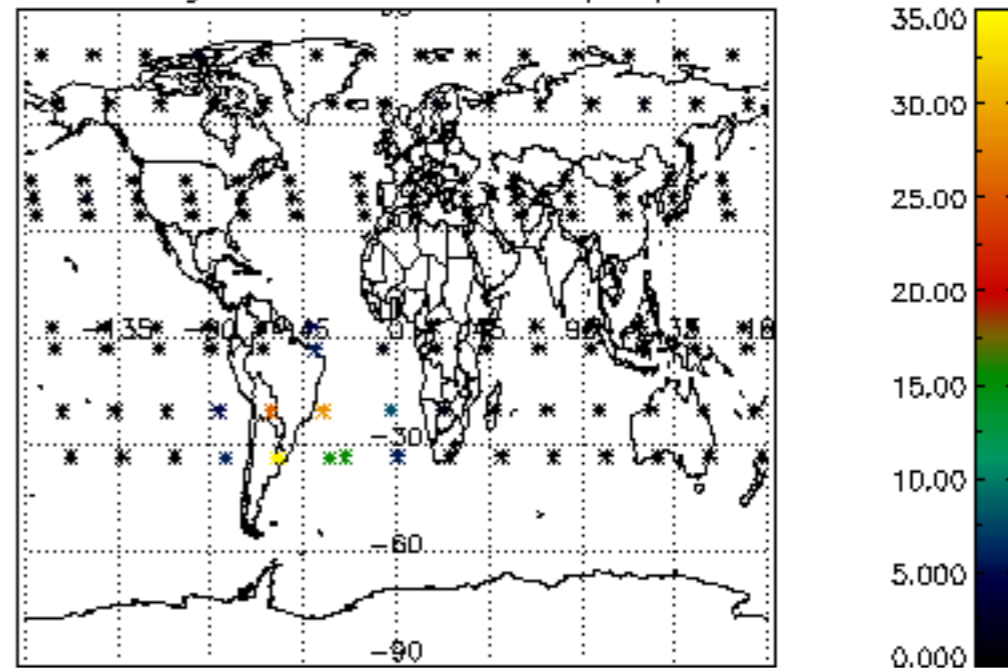
Percentage of datation errors per profile



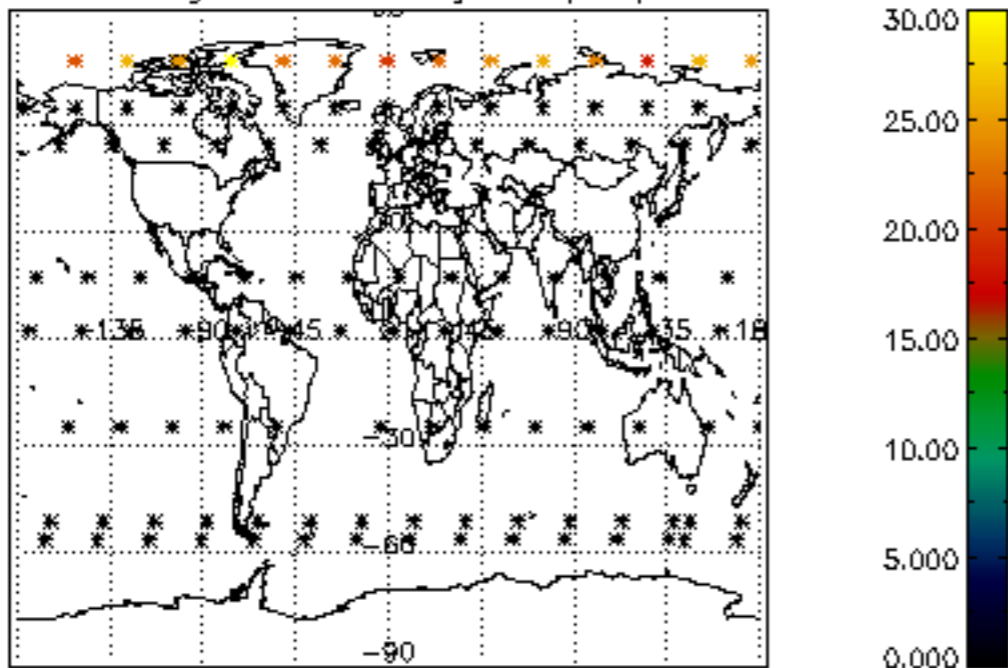
Percentage of star falling outside central band per profile



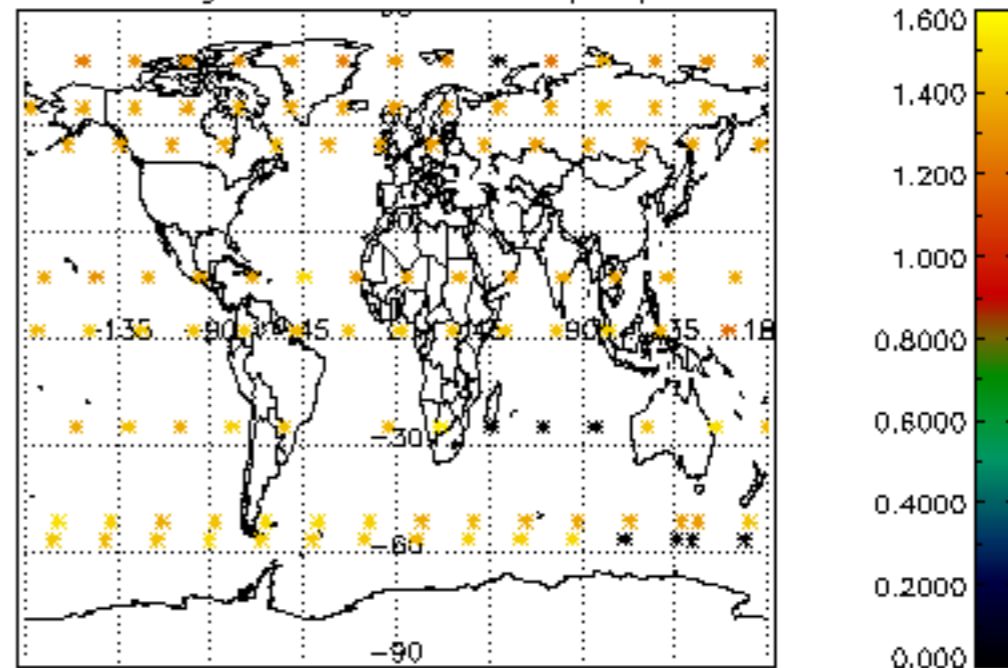
Percentage of saturation errors per profile



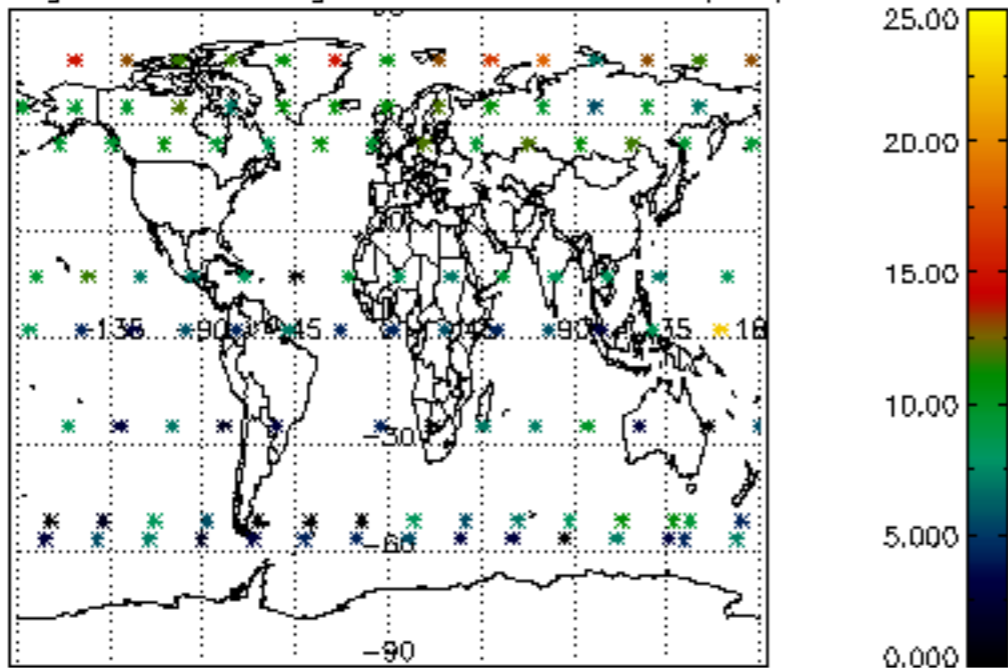
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

