

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	24APR2013 04:32:10
Data source version	GOMOS/6.01
Start time of products	28-09-2006 (28SEP2006 00:00:00)
Stop time of products	29-09-2006 (29SEP2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	133
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

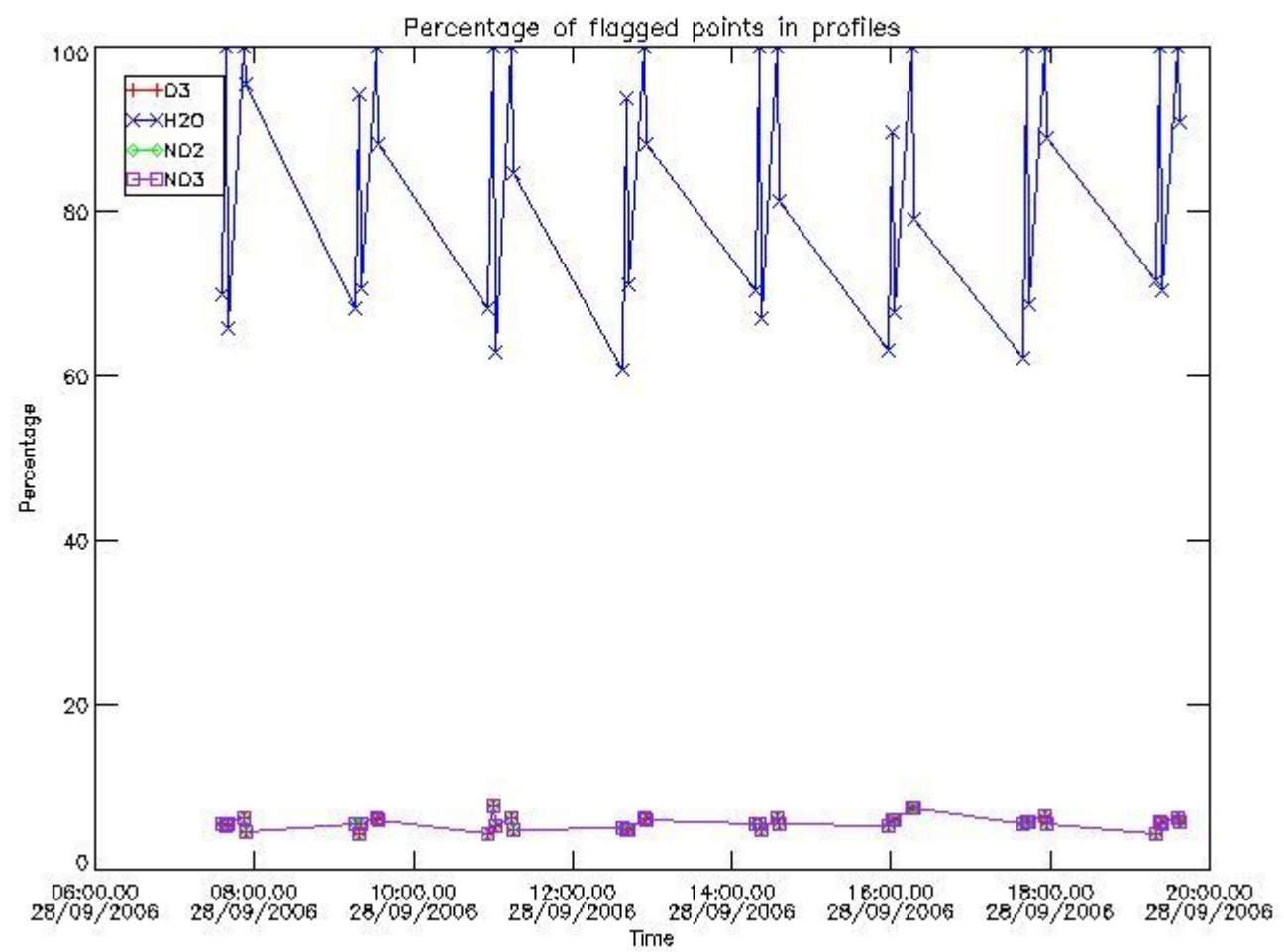
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060928_070443_000000292051_00335_23936_2155.N1	28-SEP-2006 07:04:43	Bright	29.000	36	50Alp UMa	1.8000	6300.0	58	23936	No
2	GOM_NL__2PRFIN20060928_070613_000000382051_00335_23936_2156.N1	28-SEP-2006 07:06:13	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	23936	No
3	GOM_NL__2PRFIN20060928_070924_000000282051_00335_23936_2157.N1	28-SEP-2006 07:09:24	Bright	28.000	174	52Psi UMa	3.0040	4400.0	56	23936	No
4	GOM_NL__2PRFIN20060928_071603_000000292051_00335_23936_2158.N1	28-SEP-2006 07:16:03	Bright	28.500	166	17Eps Leo	2.9800	6000.0	57	23936	No
5	GOM_NL__2PRFIN20060928_072529_000000382051_00335_23936_2159.N1	28-SEP-2006 07:25:29	Twilight	37.500	48	30Alp Hya	1.9770	4100.0	75	23936	No
6	GOM_NL__2PRFIN20060928_073510_000000372051_00335_23936_2160.N1	28-SEP-2006 07:35:10	Dark	37.000	65	Lam Vel	2.2040	4400.0	74	23936	No
7	GOM_NL__2PRFIN20060928_073828_000000392051_00335_23936_2161.N1	28-SEP-2006 07:38:28	Dark	38.500	46	Del Vel	1.9540	10600.	77	23936	No
8	GOM_NL__2PRFIN20060928_074003_000000372051_00335_23936_2162.N1	28-SEP-2006 07:40:03	Dark	37.000	41	Eps Car	1.8600	4100.0	74	23936	No
9	GOM_NL__2PRFIN20060928_075215_000000332051_00336_23937_2155.N1	28-SEP-2006 07:52:15	Dark	32.500	143	Alp Hyi	2.8570	7200.0	65	23937	No
10	GOM_NL__2PRFIN20060928_075342_000000452051_00336_23937_2156.N1	28-SEP-2006 07:53:42	Dark	44.500	9	Alp Eri	0.45300	24000.	89	23937	No
11	GOM_NL__2PRFIN20060928_075909_000000342051_00336_23937_2157.N1	28-SEP-2006 07:59:09	Straylight	33.500	84	Alp Phe	2.3970	4500.0	67	23937	No
12	GOM_NL__2PRFIN20060928_080353_000000382051_00336_23937_2158.N1	28-SEP-2006 08:03:53	Straylight	37.500	18	24Alp PsA	1.1660	9700.0	75	23937	No
13	GOM_NL__2PRFIN20060928_081233_000000322051_00336_23937_2159.N1	28-SEP-2006 08:12:33	Bright	32.000	162	34Alp Aqr	2.9440	5350.0	64	23937	No
14	GOM_NL__2PRFIN20060928_081626_000000312051_00336_23937_2160.N1	28-SEP-2006 08:16:26	Bright	30.500	90	54Alp Peg	2.4870	11000.	61	23937	No
15	GOM_NL__2PRFIN20060928_082006_000000302051_00336_23937_2161.N1	28-SEP-2006 08:20:06	Bright	30.000	93	53Bet Peg	2.5200	3100.0	60	23937	No
16	GOM_NL__2PRFIN20060928_083011_000000302051_00336_23937_2162.N1	28-SEP-2006 08:30:11	Bright	29.500	89	5Alp Cep	2.4510	8000.0	59	23937	No
17	GOM_NL__2PRFIN20060928_083728_000000302051_00336_23937_2163.N1	28-SEP-2006 08:37:28	Bright	29.500	49	1Alp UMi	1.9900	6300.0	59	23937	No
18	GOM_NL__2PRFIN20060928_083919_000000312051_00336_23937_2164.N1	28-SEP-2006 08:39:19	Bright	30.500	60	7Bet UMi	2.0810	3950.0	61	23937	No
19	GOM_NL__2PRFIN20060928_084519_000000302051_00336_23937_2165.N1	28-SEP-2006 08:45:19	Bright	29.500	36	50Alp UMa	1.8000	6300.0	59	23937	No
20	GOM_NL__2PRFIN20060928_084649_000000292051_00336_23937_2166.N1	28-SEP-2006 08:46:49	Bright	29.000	82	48Bet UMa	2.3650	10600.	58	23937	No
21	GOM_NL__2PRFIN20060928_085000_000000282051_00336_23937_2167.N1	28-SEP-2006 08:50:00	Bright	27.500	174	52Psi UMa	3.0040	4400.0	55	23937	No
22	GOM_NL__2PRFIN20060928_085639_000000292051_00336_23937_2168.N1	28-SEP-2006 08:56:39	Bright	29.000	166	17Eps Leo	2.9800	6000.0	58	23937	No
23	GOM_NL__2PRFIN20060928_090606_000000322051_00336_23937_2169.N1	28-SEP-2006 09:06:06	Twilight	31.500	48	30Alp Hya	1.9770	4100.0	63	23937	No
24	GOM_NL__2PRFIN20060928_091546_000000372051_00336_23937_2170.N1	28-SEP-2006 09:15:46	Dark	36.500	65	Lam Vel	2.2040	4400.0	73	23937	No
25	GOM_NL__2PRFIN20060928_091904_000000362051_00336_23937_2171.N1	28-SEP-2006 09:19:04	Dark	35.500	46	Del Vel	1.9540	10600.	71	23937	No
26	GOM_NL__2PRFIN20060928_092039_000000382051_00336_23937_2172.N1	28-SEP-2006 09:20:39	Dark	38.000	41	Eps Car	1.8600	4100.0	76	23937	No
27	GOM_NL__2PRFIN20060928_093251_000000332051_00337_23938_2155.N1	28-SEP-2006 09:32:51	Dark	33.000	143	Alp Hyi	2.8570	7200.0	66	23938	No
28	GOM_NL__2PRFIN20060928_093419_000000352051_00337_23938_2156.N1	28-SEP-2006 09:34:19	Dark	34.500	9	Alp Eri	0.45300	24000.	69	23938	No
29	GOM_NL__2PRFIN20060928_093945_000000372051_00337_23938_2157.N1	28-SEP-2006 09:39:45	Straylight	37.000	84	Alp Phe	2.3970	4500.0	74	23938	No
30	GOM_NL__2PRFIN20060928_094429_000000332051_00337_23938_2158.N1	28-SEP-2006 09:44:29	Straylight	32.500	18	24Alp PsA	1.1660	9700.0	65	23938	No
31	GOM_NL__2PRFIN20060928_095310_000000322051_00337_23938_2159.N1	28-SEP-2006 09:53:10	Bright	31.500	162	34Alp Aqr	2.9440	5350.0	63	23938	No
32	GOM_NL__2PRFIN20060928_095702_000000302051_00337_23938_2160.N1	28-SEP-2006 09:57:02	Bright	30.000	90	54Alp Peg	2.4870	11000.	60	23938	No
33	GOM_NL__2PRFIN20060928_100042_000000302051_00337_23938_2161.N1	28-SEP-2006 10:00:42	Bright	29.500	93	53Bet Peg	2.5200	3100.0	59	23938	No
34	GOM_NL__2PRFIN20060928_101047_000000302051_00337_23938_2162.N1	28-SEP-2006 10:10:47	Bright	30.000	89	5Alp Cep	2.4510	8000.0	60	23938	No
35	GOM_NL__2PRFIN20060928_101804_000000312051_00337_23938_2163.N1	28-SEP-2006 10:18:04	Bright	30.500	49	1Alp UMi	1.9900	6300.0	61	23938	No
36	GOM_NL__2PRFIN20060928_101955_000000302051_00337_23938_2164.N1	28-SEP-2006 10:19:55	Bright	30.000	60	7Bet UMi	2.0810	3950.0	60	23938	No
37	GOM_NL__2PRFIN20060928_102555_000000312051_00337_23938_2165.N1	28-SEP-2006 10:25:55	Bright	31.000	36	50Alp UMa	1.8000	6300.0	62	23938	No
38	GOM_NL__2PRFIN20060928_102725_000000302051_00337_23938_2166.N1	28-SEP-2006 10:27:25	Bright	30.000	82	48Bet UMa	2.3650	10600.	60	23938	No
39	GOM_NL__2PRFIN20060928_103036_000000292051_00337_23938_2167.N1	28-SEP-2006 10:30:36	Bright	28.500	174	52Psi UMa	3.0040	4400.0	57	23938	No
40	GOM_NL__2PRFIN20060928_103715_000000292051_00337_23938_2168.N1	28-SEP-2006 10:37:15	Bright	29.000	166	17Eps Leo	2.9800	6000.0	58	23938	No
41	GOM_NL__2PRFIN20060928_104642_000000382051_00337_23938_2169.N1	28-SEP-2006 10:46:42	Twilight	38.000	48	30Alp Hya	1.9770	4100.0	76	23938	No
42	GOM_NL__2PRFIN20060928_105623_000000352051_00337_23938_2170.N1	28-SEP-2006 10:56:23	Dark	35.000	65	Lam Vel	2.2040	4400.0	70	23938	No

102	GOM_NL__2PRFIN20060928_163925_000000312051_00341_23942_2159.N1	28-SEP-2006 16:39:25	Bright	30.500	90	54Alp Peg	2.4870	11000.	61	23942	No
103	GOM_NL__2PRFIN20060928_164305_000000312051_00341_23942_2160.N1	28-SEP-2006 16:43:05	Bright	31.000	93	53Bet Peg	2.5200	3100.0	62	23942	No
104	GOM_NL__2PRFIN20060928_165311_000000312051_00341_23942_2161.N1	28-SEP-2006 16:53:11	Bright	30.500	89	5Alp Cep	2.4510	8000.0	61	23942	No
105	GOM_NL__2PRFIN20060928_170028_000000302051_00341_23942_2162.N1	28-SEP-2006 17:00:28	Bright	29.500	49	1Alp UMi	1.9900	6300.0	59	23942	No
106	GOM_NL__2PRFIN20060928_170220_000000472051_00341_23942_2163.N1	28-SEP-2006 17:02:20	Bright	46.500	60	7Bet UMi	2.0810	3950.0	93	23942	No
107	GOM_NL__2PRFIN20060928_170820_000000282051_00341_23942_2164.N1	28-SEP-2006 17:08:20	Bright	28.000	36	50Alp UMa	1.8000	6300.0	56	23942	No
108	GOM_NL__2PRFIN20060928_170949_000000292051_00341_23942_2165.N1	28-SEP-2006 17:09:49	Bright	28.500	82	48Bet UMa	2.3650	10600.	57	23942	No
109	GOM_NL__2PRFIN20060928_171301_000000462051_00341_23942_2166.N1	28-SEP-2006 17:13:01	Bright	46.000	174	52Psi UMa	3.0040	4400.0	92	23942	No
110	GOM_NL__2PRFIN20060928_171940_000000292051_00341_23942_2167.N1	28-SEP-2006 17:19:40	Bright	28.500	166	17Eps Leo	2.9800	6000.0	57	23942	No
111	GOM_NL__2PRFIN20060928_172907_000000432051_00341_23942_2168.N1	28-SEP-2006 17:29:07	Twilight	43.000	48	30Alp Hya	1.9770	4100.0	86	23942	No
112	GOM_NL__2PRFIN20060928_173848_000000382051_00341_23942_2169.N1	28-SEP-2006 17:38:48	Dark	37.500	65	Lam Vel	2.2040	4400.0	75	23942	No
113	GOM_NL__2PRFIN20060928_174206_000000362051_00341_23942_2170.N1	28-SEP-2006 17:42:06	Dark	35.500	46	Del Vel	1.9540	10600.	71	23942	No
114	GOM_NL__2PRFIN20060928_174341_000000452051_00342_23943_2171.N1	28-SEP-2006 17:43:41	Dark	45.000	41	Eps Car	1.8600	4100.0	90	23943	No
115	GOM_NL__2PRFIN20060928_175553_000000322051_00342_23943_2175.N1	28-SEP-2006 17:55:53	Dark	31.500	143	Alp Hyi	2.8570	7200.0	63	23943	No
116	GOM_NL__2PRFIN20060928_175720_000000452051_00342_23943_2176.N1	28-SEP-2006 17:57:20	Dark	45.000	9	Alp Eri	0.45300	24000.	90	23943	No
117	GOM_NL__2PRFIN20060928_180246_000000382051_00342_23943_2177.N1	28-SEP-2006 18:02:46	Straylight	38.000	84	Alp Phe	2.3970	4500.0	76	23943	No
118	GOM_NL__2PRFIN20060928_180729_000000362051_00342_23943_2178.N1	28-SEP-2006 18:07:29	Straylight	35.500	18	24Alp PsA	1.1660	9700.0	71	23943	No
119	GOM_NL__2PRFIN20060928_182001_000000302051_00342_23943_2179.N1	28-SEP-2006 18:20:01	Bright	30.000	90	54Alp Peg	2.4870	11000.	60	23943	No
120	GOM_NL__2PRFIN20060928_182342_000000322051_00342_23943_2180.N1	28-SEP-2006 18:23:42	Bright	31.500	93	53Bet Peg	2.5200	3100.0	63	23943	No
121	GOM_NL__2PRFIN20060928_183348_000000302051_00342_23943_2181.N1	28-SEP-2006 18:33:48	Bright	29.500	89	5Alp Cep	2.4510	8000.0	59	23943	No
122	GOM_NL__2PRFIN20060928_184104_000000312051_00342_23943_2182.N1	28-SEP-2006 18:41:04	Bright	30.500	49	1Alp UMi	1.9900	6300.0	61	23943	No
123	GOM_NL__2PRFIN20060928_184257_000000312051_00342_23943_2183.N1	28-SEP-2006 18:42:57	Bright	30.500	60	7Bet UMi	2.0810	3950.0	61	23943	No
124	GOM_NL__2PRFIN20060928_184856_000000282051_00342_23943_2184.N1	28-SEP-2006 18:48:56	Bright	27.500	36	50Alp UMa	1.8000	6300.0	55	23943	No
125	GOM_NL__2PRFIN20060928_185025_000000292051_00342_23943_2185.N1	28-SEP-2006 18:50:25	Bright	28.500	82	48Bet UMa	2.3650	10600.	57	23943	No
126	GOM_NL__2PRFIN20060928_185337_000000292051_00342_23943_2186.N1	28-SEP-2006 18:53:37	Bright	29.000	174	52Psi UMa	3.0040	4400.0	58	23943	No
127	GOM_NL__2PRFIN20060928_190016_000000292051_00342_23943_2187.N1	28-SEP-2006 19:00:16	Bright	29.000	166	17Eps Leo	2.9800	6000.0	58	23943	No
128	GOM_NL__2PRFIN20060928_190943_000000372051_00342_23943_2188.N1	28-SEP-2006 19:09:43	Twilight	36.500	48	30Alp Hya	1.9770	4100.0	73	23943	No
129	GOM_NL__2PRFIN20060928_191924_000000362051_00342_23943_2189.N1	28-SEP-2006 19:19:24	Dark	35.500	65	Lam Vel	2.2040	4400.0	71	23943	No
130	GOM_NL__2PRFIN20060928_192242_000000352051_00342_23943_2190.N1	28-SEP-2006 19:22:42	Dark	35.000	46	Del Vel	1.9540	10600.	70	23943	No
131	GOM_NL__2PRFIN20060928_192417_000000382051_00343_23944_2191.N1	28-SEP-2006 19:24:17	Dark	37.500	41	Eps Car	1.8600	4100.0	75	23944	No
132	GOM_NL__2PRFIN20060928_193629_000000332051_00343_23944_2175.N1	28-SEP-2006 19:36:29	Dark	32.500	143	Alp Hyi	2.8570	7200.0	65	23944	No
133	GOM_NL__2PRFIN20060928_193757_000000442051_00343_23944_2176.N1	28-SEP-2006 19:37:57	Dark	43.500	9	Alp Eri	0.45300	24000.	87	23944	No

3. Quality information per product

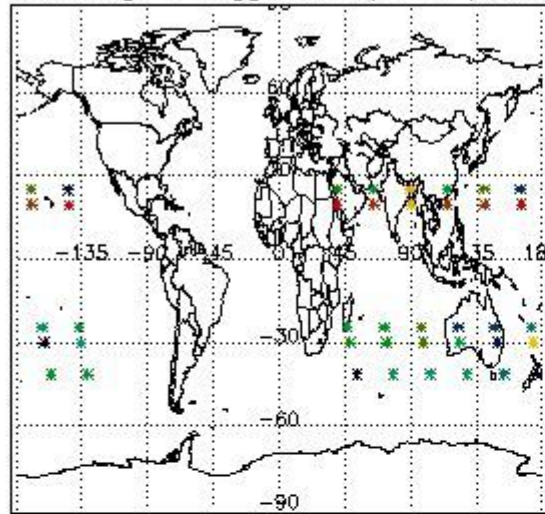
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

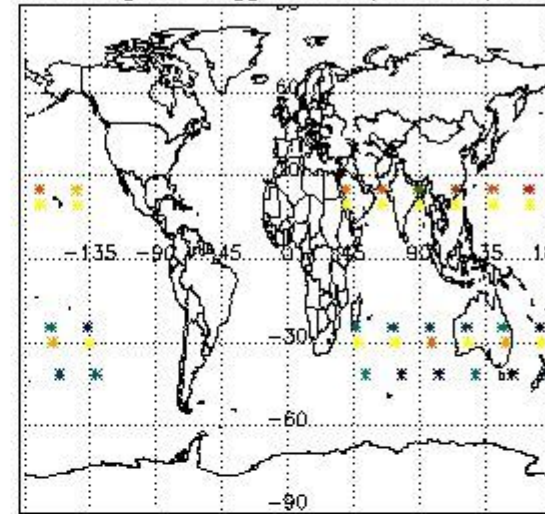


3.2 Plot quality information per product (world map)

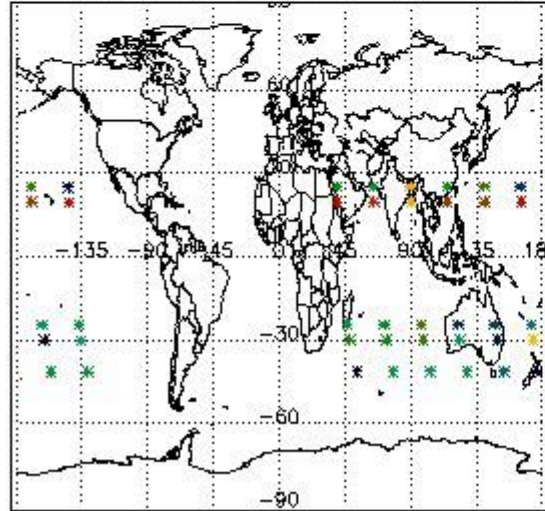
Percentage of flagged data per O3 profile



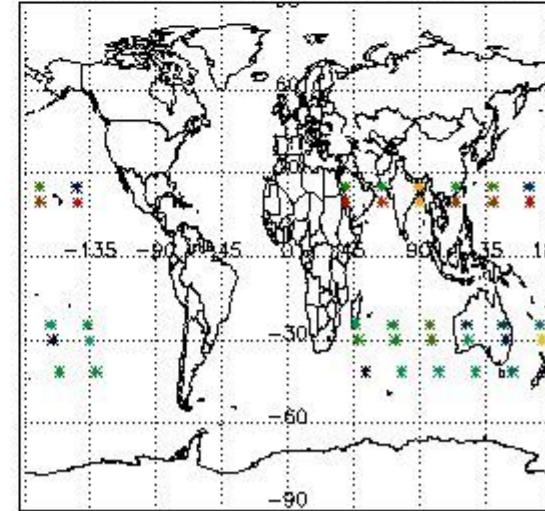
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

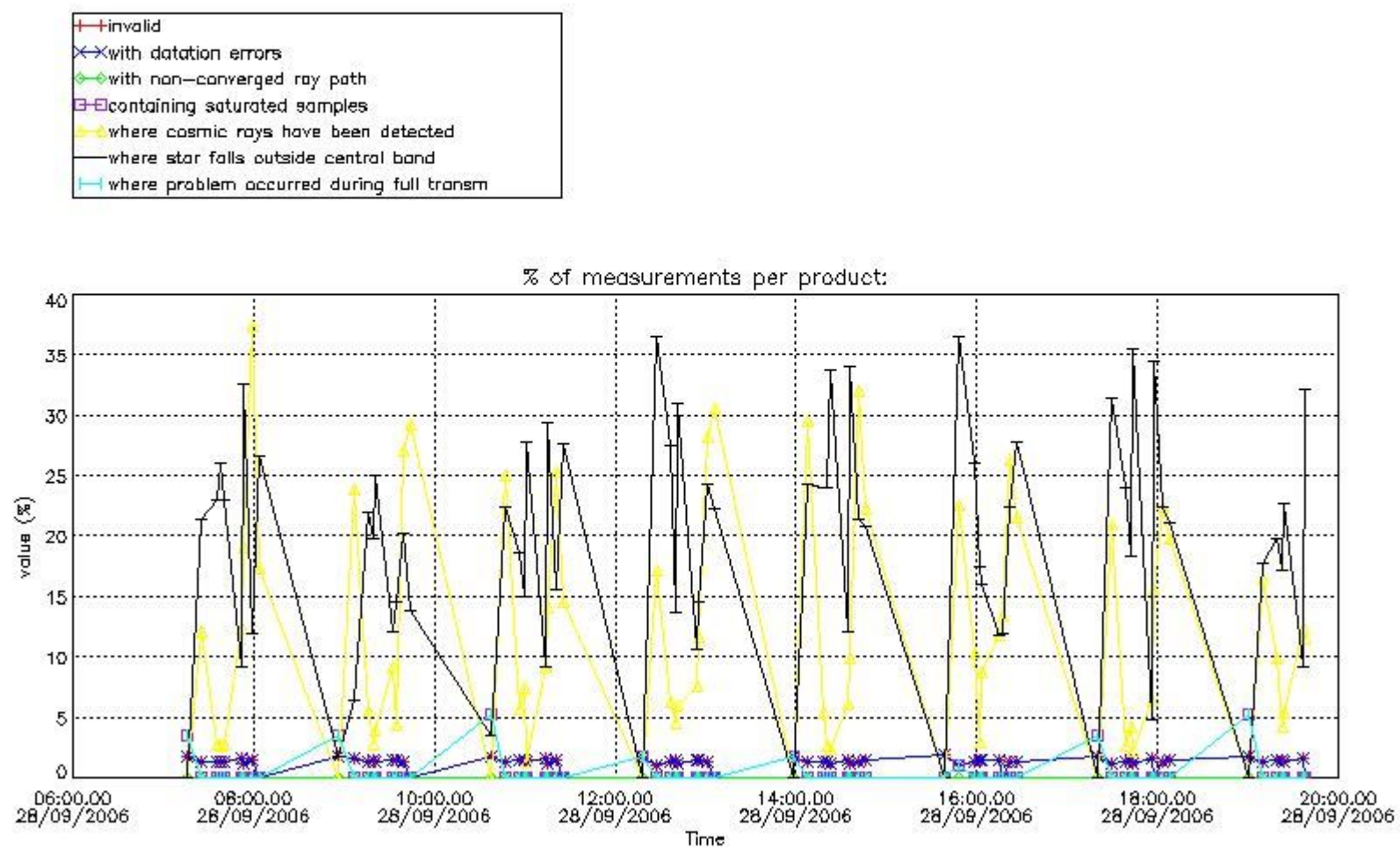


4. Level 1 quality information per product

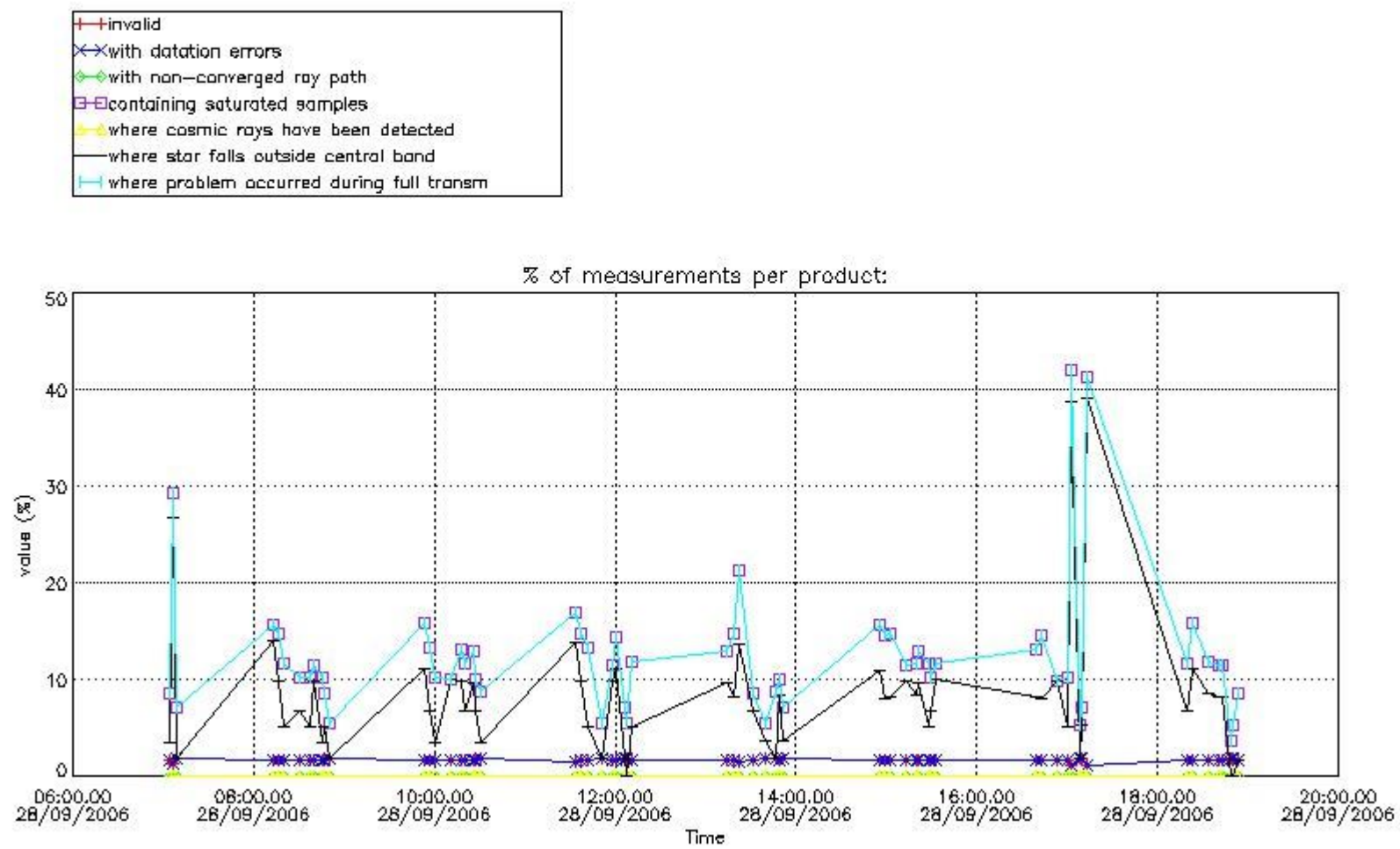
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



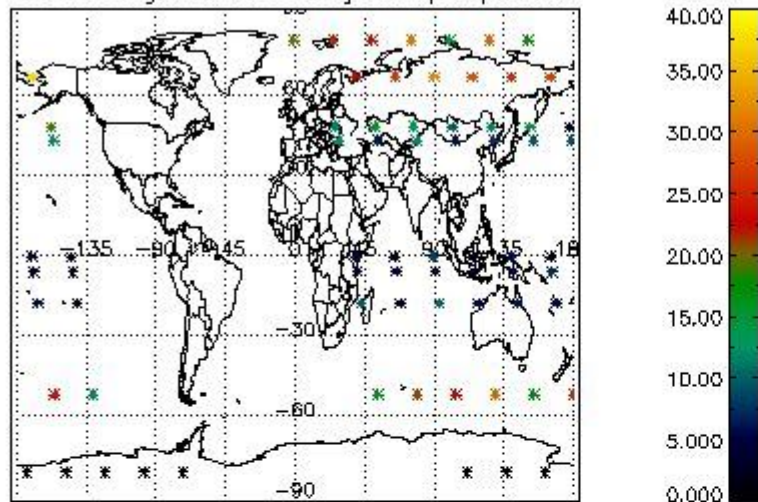
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



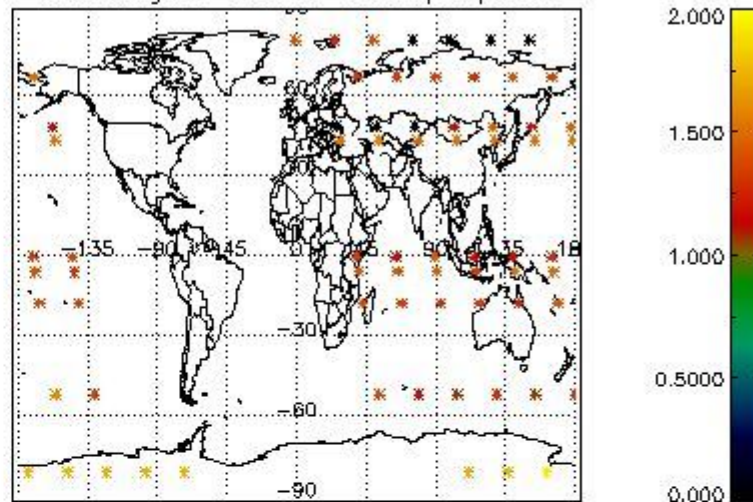
4.2 Plot quality information per product coming from level 1b processing (world map)

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

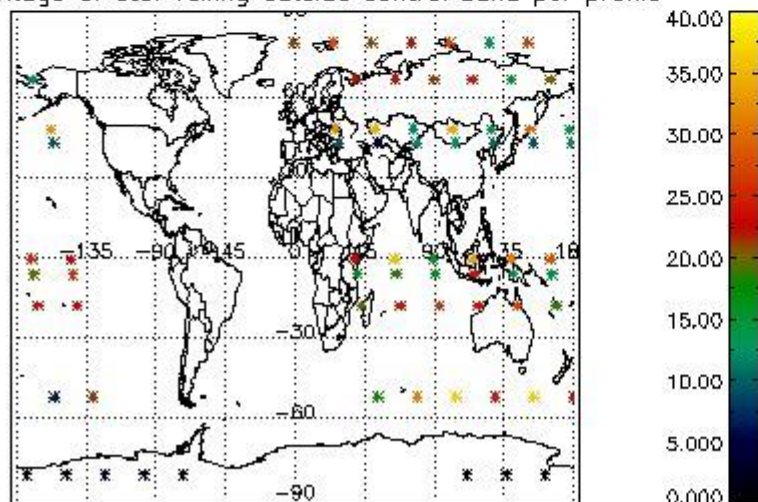
Percentage of cosmic ray hits per profile



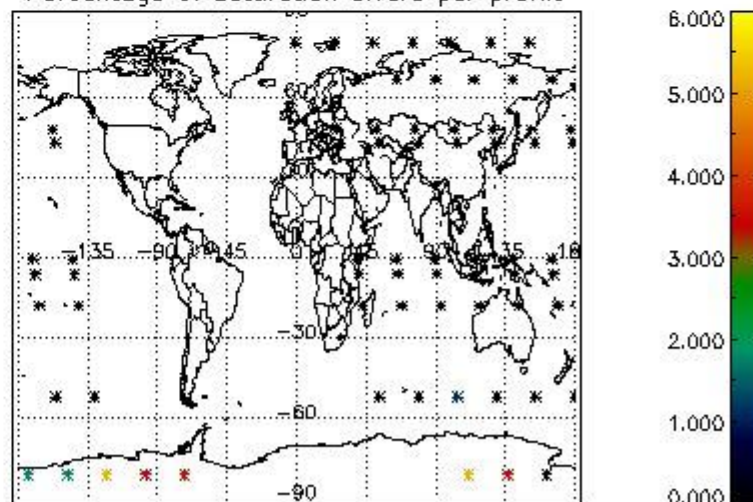
Percentage of datation errors per profile



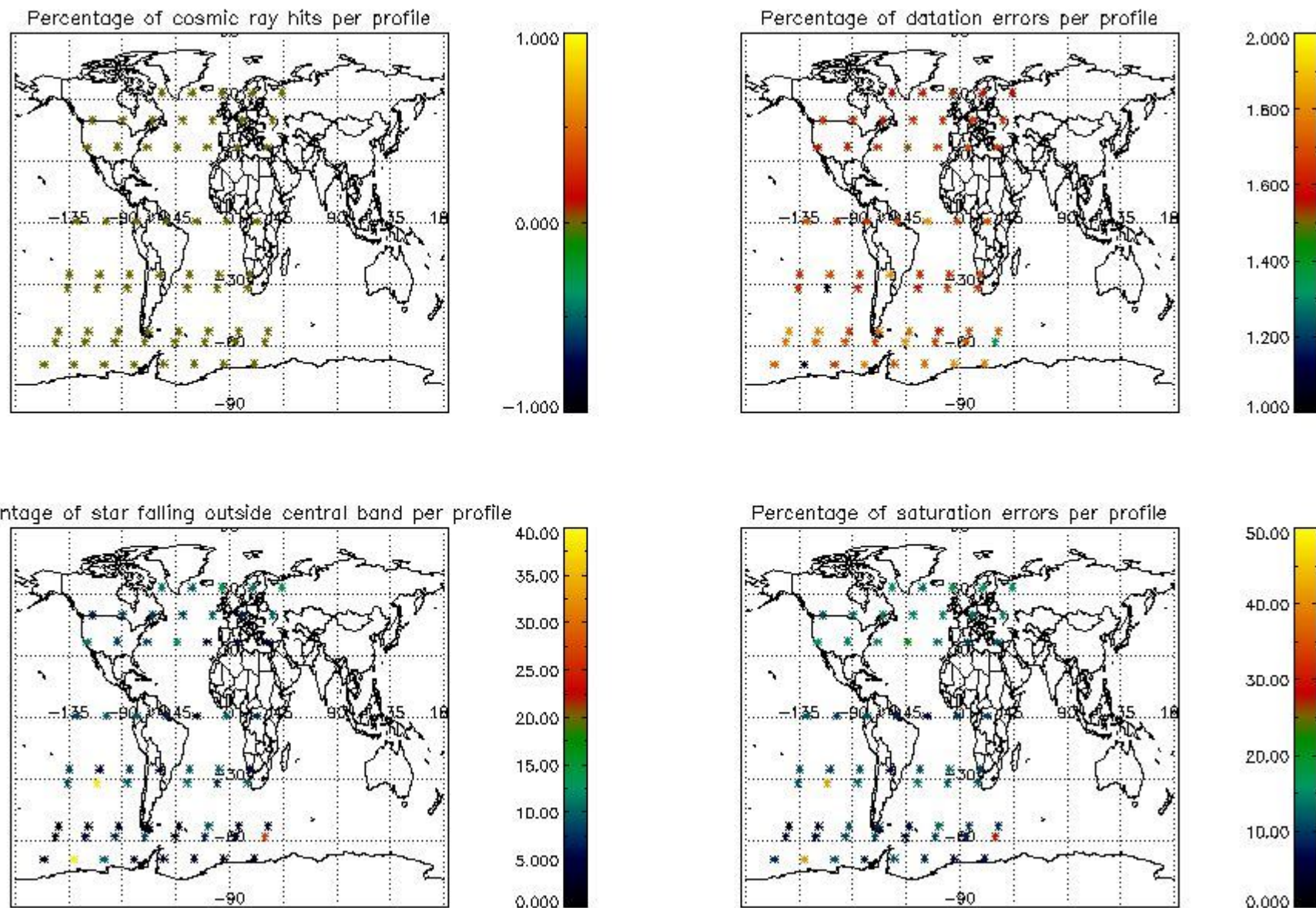
Percentage of star falling outside central band per profile



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

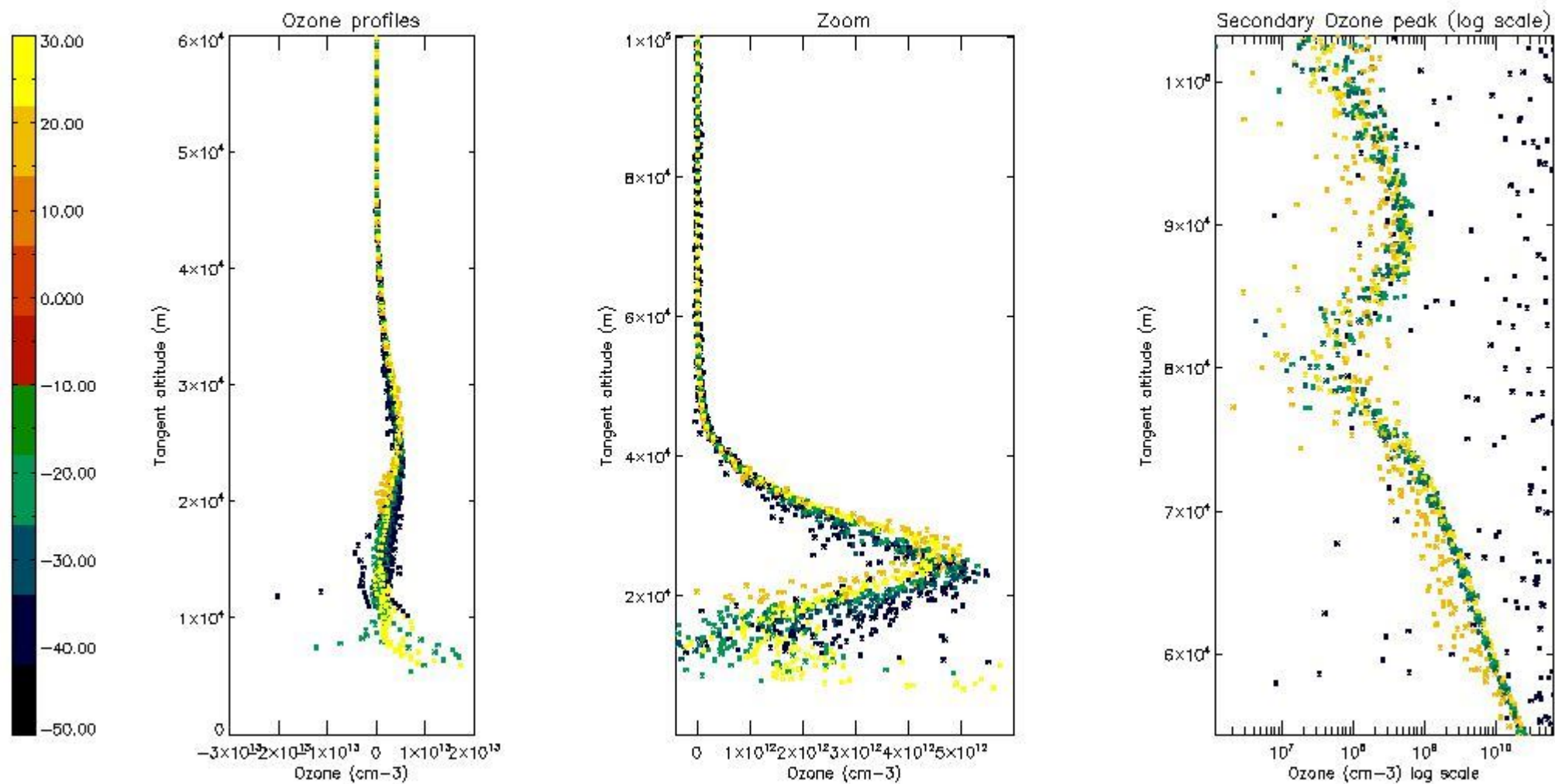
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	34
STD < 20	19

STD < 10	14
STD < 5	7

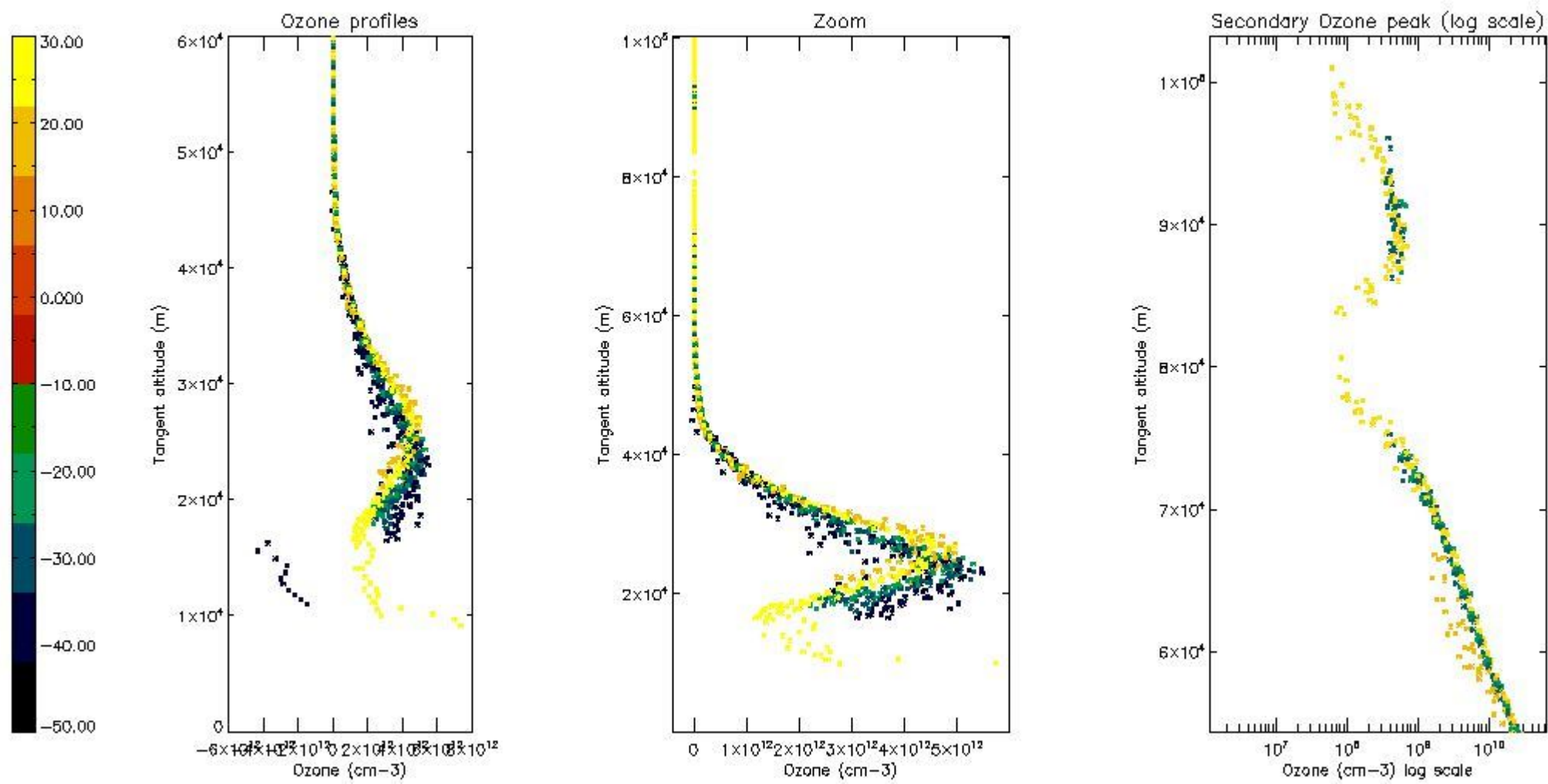
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



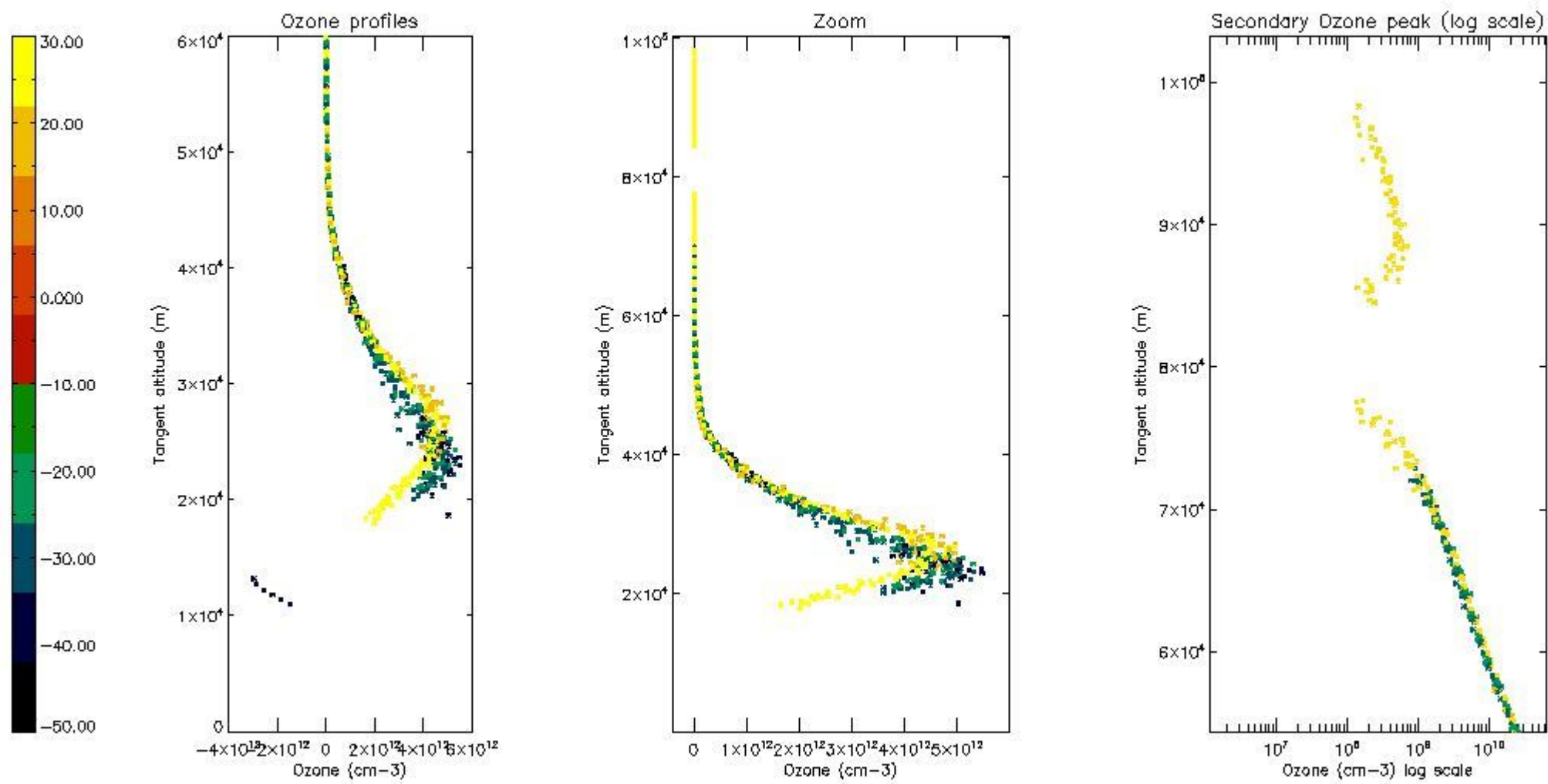
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



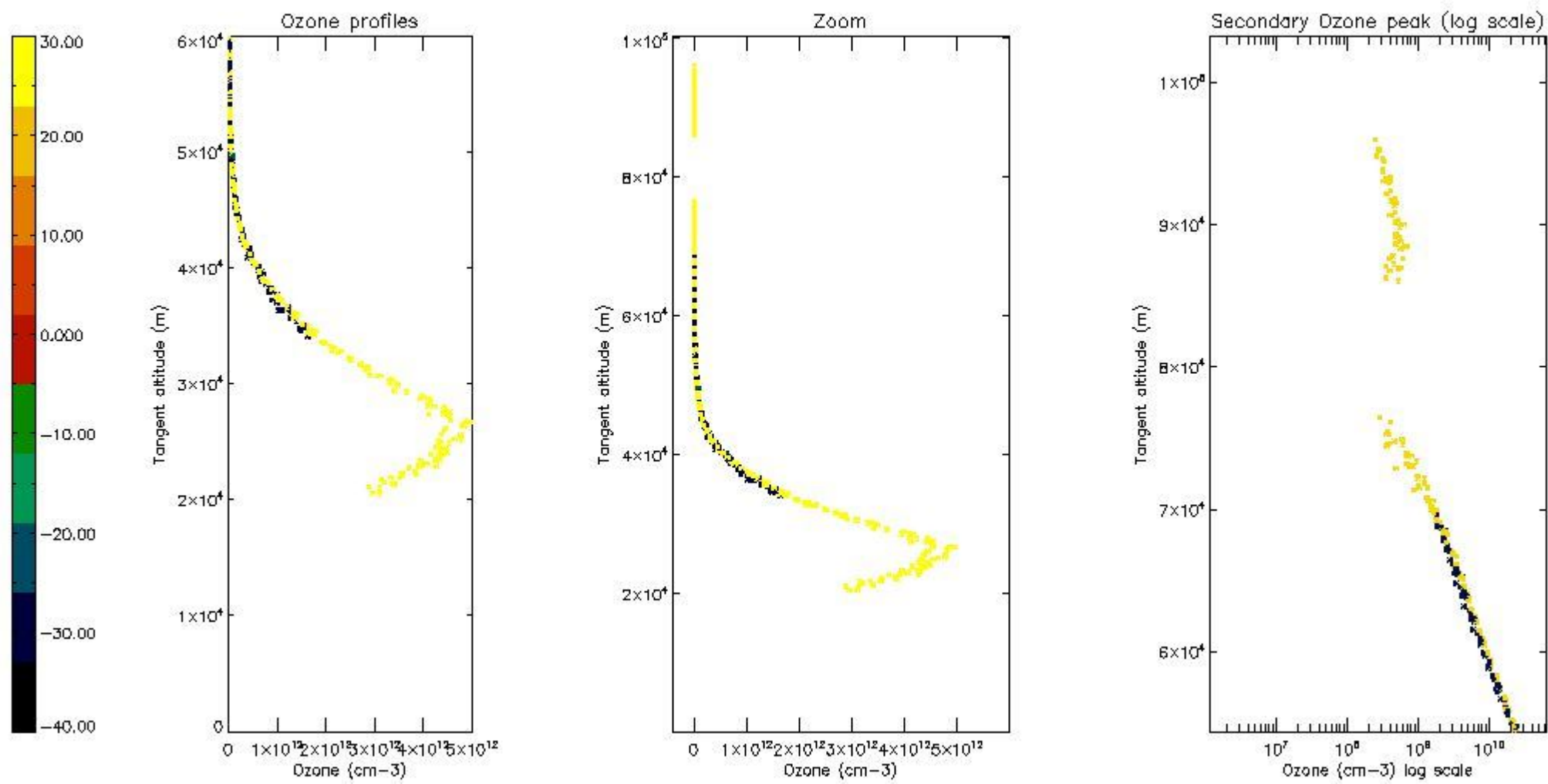
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



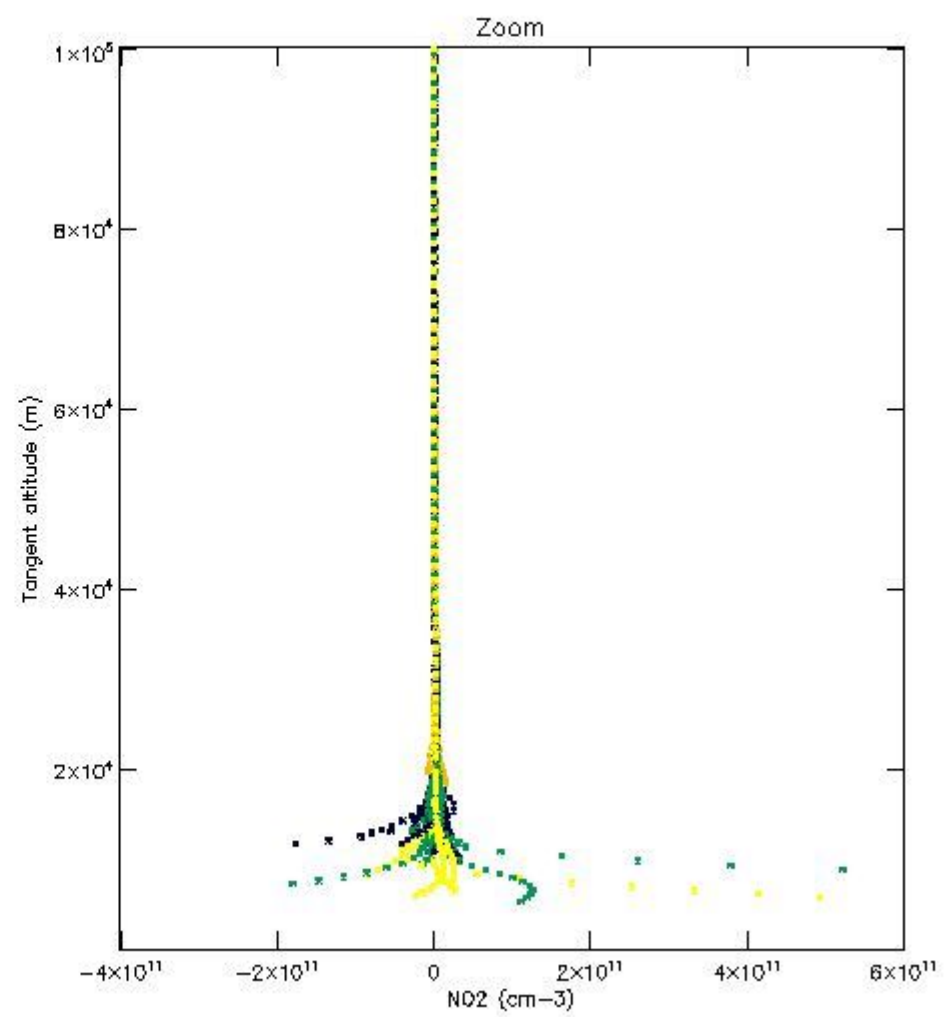
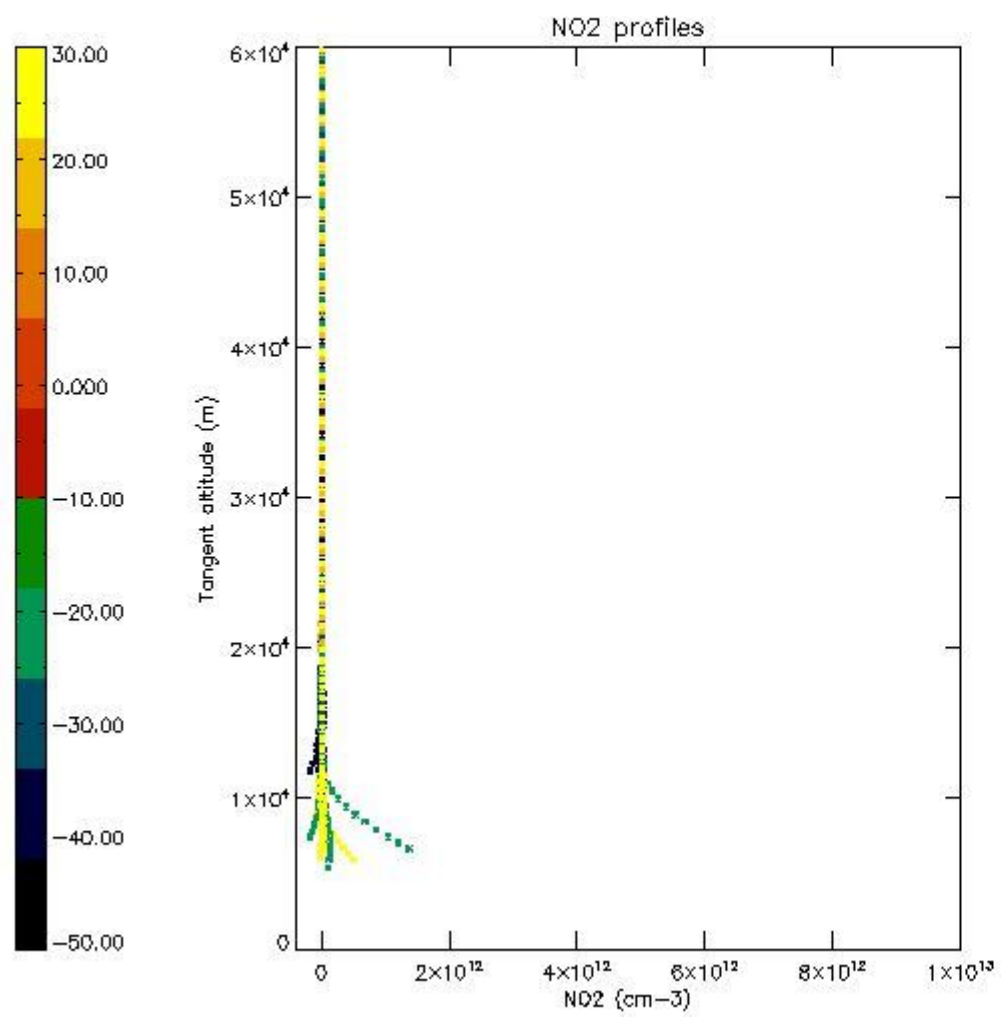
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



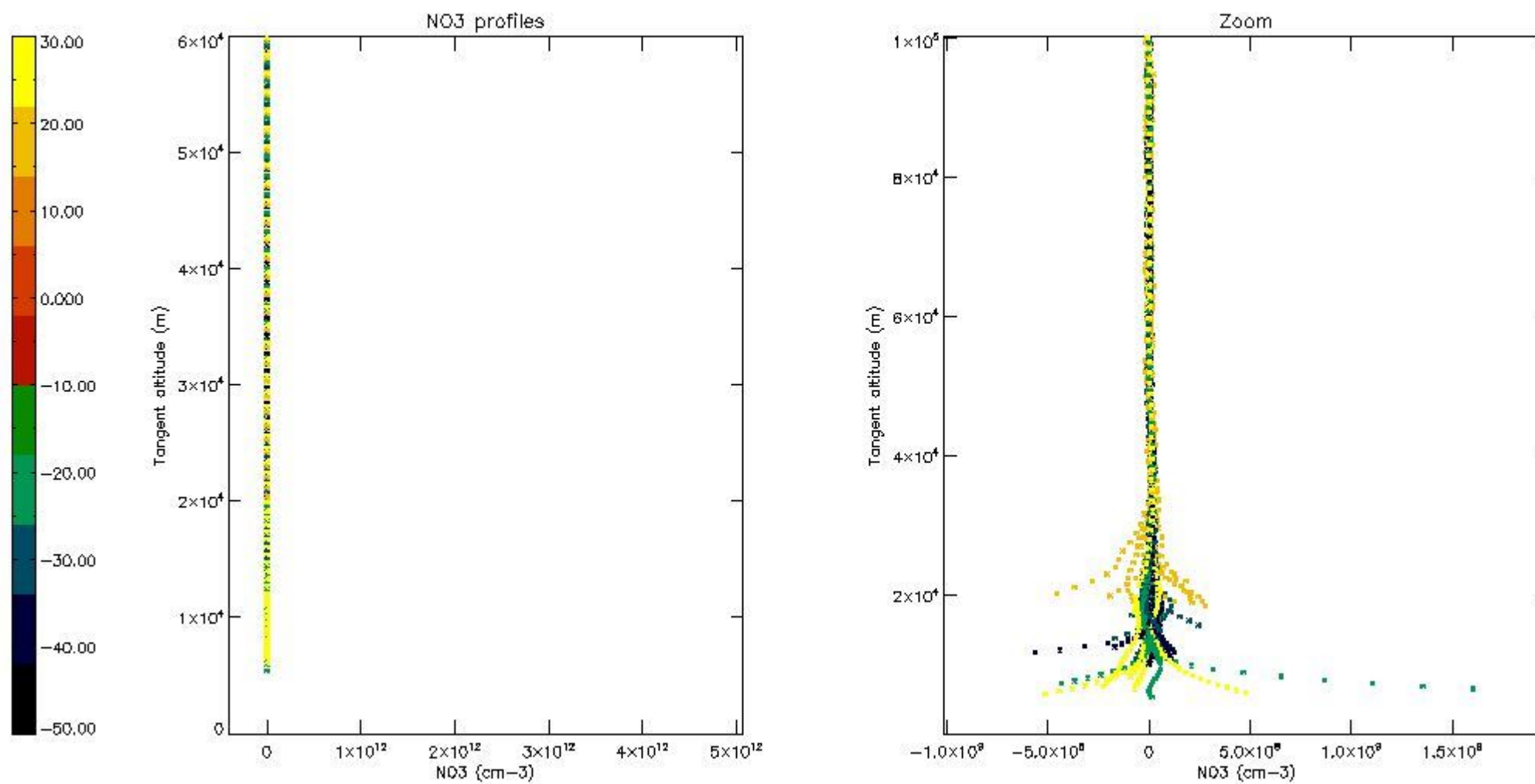
5.6 Plot NO₂ profiles for all STD (dark without errors)

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	28-SEP-2006 07:04:43
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	28-SEP-2006 07:04:43
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	28-SEP-2006 07:04:43

GOMOS Level 2 Daily Report

SUMMARY

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

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

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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](#)

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

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

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

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

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

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

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

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

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

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

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

This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	24APR2013 04:32:10
Data source version	GOMOS/6.01
Start time of products	28-09-2006 (28SEP2006 00:00:00)
Stop time of products	29-09-2006 (29SEP2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	133
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

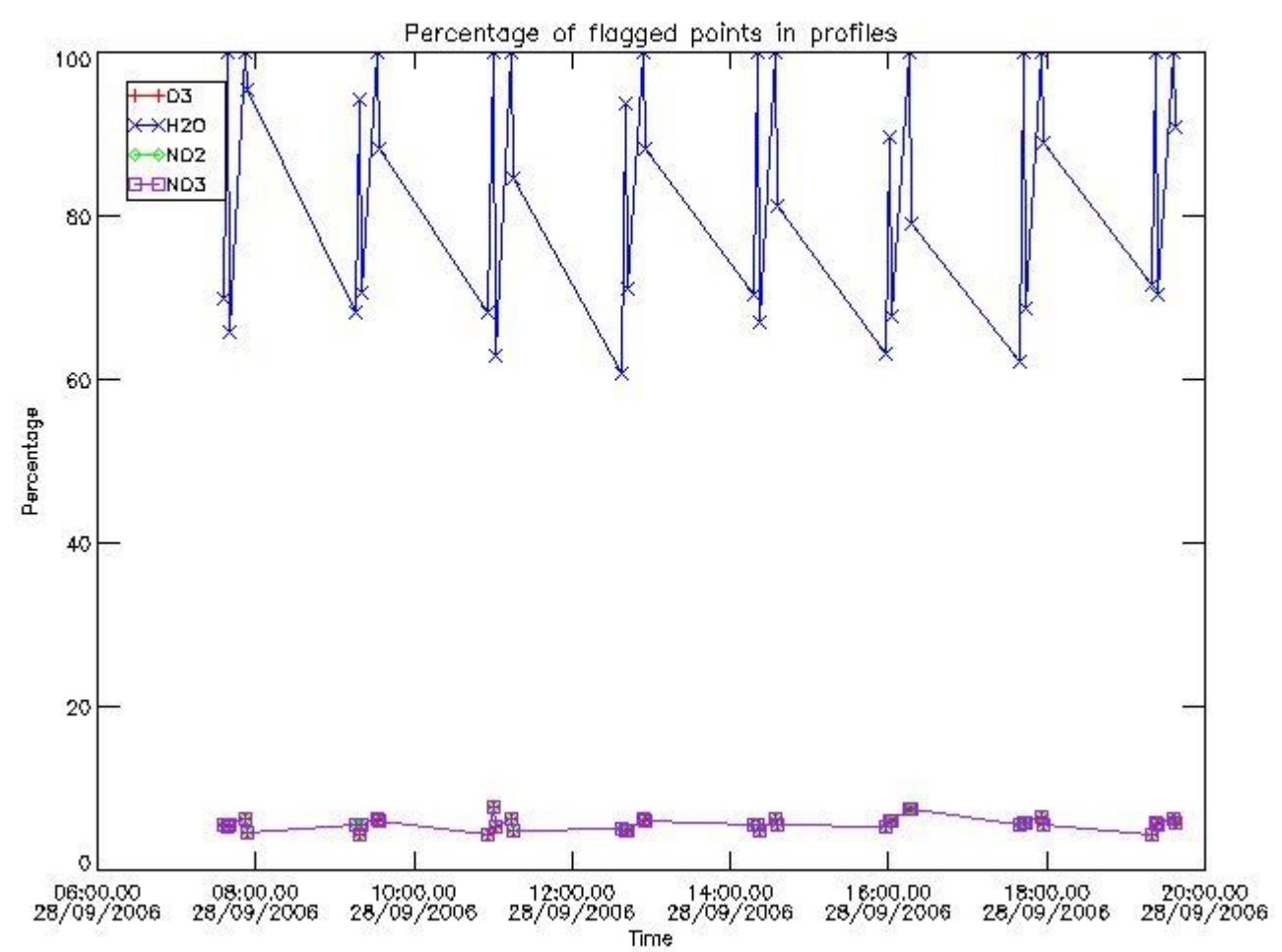
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060928_070443_000000292051_00335_23936_2155.N1	28-SEP-2006 07:04:43	Bright	29.000	36	50Alp UMa	1.8000	6300.0	58	23936	No
2	GOM_NL__2PRFIN20060928_070613_000000382051_00335_23936_2156.N1	28-SEP-2006 07:06:13	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	23936	No
3	GOM_NL__2PRFIN20060928_070924_000000282051_00335_23936_2157.N1	28-SEP-2006 07:09:24	Bright	28.000	174	52Psi UMa	3.0040	4400.0	56	23936	No
4	GOM_NL__2PRFIN20060928_071603_000000292051_00335_23936_2158.N1	28-SEP-2006 07:16:03	Bright	28.500	166	17Eps Leo	2.9800	6000.0	57	23936	No
5	GOM_NL__2PRFIN20060928_072529_000000382051_00335_23936_2159.N1	28-SEP-2006 07:25:29	Twilight	37.500	48	30Alp Hya	1.9770	4100.0	75	23936	No
6	GOM_NL__2PRFIN20060928_073510_000000372051_00335_23936_2160.N1	28-SEP-2006 07:35:10	Dark	37.000	65	Lam Vel	2.2040	4400.0	74	23936	No
7	GOM_NL__2PRFIN20060928_073828_000000392051_00335_23936_2161.N1	28-SEP-2006 07:38:28	Dark	38.500	46	Del Vel	1.9540	10600.	77	23936	No
8	GOM_NL__2PRFIN20060928_074003_000000372051_00335_23936_2162.N1	28-SEP-2006 07:40:03	Dark	37.000	41	Eps Car	1.8600	4100.0	74	23936	No
9	GOM_NL__2PRFIN20060928_075215_000000332051_00336_23937_2155.N1	28-SEP-2006 07:52:15	Dark	32.500	143	Alp Hyi	2.8570	7200.0	65	23937	No
10	GOM_NL__2PRFIN20060928_075342_000000452051_00336_23937_2156.N1	28-SEP-2006 07:53:42	Dark	44.500	9	Alp Eri	0.45300	24000.	89	23937	No
11	GOM_NL__2PRFIN20060928_075909_000000342051_00336_23937_2157.N1	28-SEP-2006 07:59:09	Straylight	33.500	84	Alp Phe	2.3970	4500.0	67	23937	No
12	GOM_NL__2PRFIN20060928_080353_000000382051_00336_23937_2158.N1	28-SEP-2006 08:03:53	Straylight	37.500	18	24Alp PsA	1.1660	9700.0	75	23937	No
13	GOM_NL__2PRFIN20060928_081233_000000322051_00336_23937_2159.N1	28-SEP-2006 08:12:33	Bright	32.000	162	34Alp Aqr	2.9440	5350.0	64	23937	No
14	GOM_NL__2PRFIN20060928_081626_000000312051_00336_23937_2160.N1	28-SEP-2006 08:16:26	Bright	30.500	90	54Alp Peg	2.4870	11000.	61	23937	No
15	GOM_NL__2PRFIN20060928_082006_000000302051_00336_23937_2161.N1	28-SEP-2006 08:20:06	Bright	30.000	93	53Bet Peg	2.5200	3100.0	60	23937	No
16	GOM_NL__2PRFIN20060928_083011_000000302051_00336_23937_2162.N1	28-SEP-2006 08:30:11	Bright	29.500	89	5Alp Cep	2.4510	8000.0	59	23937	No
17	GOM_NL__2PRFIN20060928_083728_000000302051_00336_23937_2163.N1	28-SEP-2006 08:37:28	Bright	29.500	49	1Alp UMi	1.9900	6300.0	59	23937	No
18	GOM_NL__2PRFIN20060928_083919_000000312051_00336_23937_2164.N1	28-SEP-2006 08:39:19	Bright	30.500	60	7Bet UMi	2.0810	3950.0	61	23937	No
19	GOM_NL__2PRFIN20060928_084519_000000302051_00336_23937_2165.N1	28-SEP-2006 08:45:19	Bright	29.500	36	50Alp UMa	1.8000	6300.0	59	23937	No
20	GOM_NL__2PRFIN20060928_084649_000000292051_00336_23937_2166.N1	28-SEP-2006 08:46:49	Bright	29.000	82	48Bet UMa	2.3650	10600.	58	23937	No
21	GOM_NL__2PRFIN20060928_085000_000000282051_00336_23937_2167.N1	28-SEP-2006 08:50:00	Bright	27.500	174	52Psi UMa	3.0040	4400.0	55	23937	No
22	GOM_NL__2PRFIN20060928_085639_000000292051_00336_23937_2168.N1	28-SEP-2006 08:56:39	Bright	29.000	166	17Eps Leo	2.9800	6000.0	58	23937	No
23	GOM_NL__2PRFIN20060928_090606_000000322051_00336_23937_2169.N1	28-SEP-2006 09:06:06	Twilight	31.500	48	30Alp Hya	1.9770	4100.0	63	23937	No
24	GOM_NL__2PRFIN20060928_091546_000000372051_00336_23937_2170.N1	28-SEP-2006 09:15:46	Dark	36.500	65	Lam Vel	2.2040	4400.0	73	23937	No
25	GOM_NL__2PRFIN20060928_091904_000000362051_00336_23937_2171.N1	28-SEP-2006 09:19:04	Dark	35.500	46	Del Vel	1.9540	10600.	71	23937	No
26	GOM_NL__2PRFIN20060928_092039_000000382051_00336_23937_2172.N1	28-SEP-2006 09:20:39	Dark	38.000	41	Eps Car	1.8600	4100.0	76	23937	No
27	GOM_NL__2PRFIN20060928_093251_000000332051_00337_23938_2155.N1	28-SEP-2006 09:32:51	Dark	33.000	143	Alp Hyi	2.8570	7200.0	66	23938	No
28	GOM_NL__2PRFIN20060928_093419_000000352051_00337_23938_2156.N1	28-SEP-2006 09:34:19	Dark	34.500	9	Alp Eri	0.45300	24000.	69	23938	No
29	GOM_NL__2PRFIN20060928_093945_000000372051_00337_23938_2157.N1	28-SEP-2006 09:39:45	Straylight	37.000	84	Alp Phe	2.3970	4500.0	74	23938	No
30	GOM_NL__2PRFIN20060928_094429_000000332051_00337_23938_2158.N1	28-SEP-2006 09:44:29	Straylight	32.500	18	24Alp PsA	1.1660	9700.0	65	23938	No
31	GOM_NL__2PRFIN20060928_095310_000000322051_00337_23938_2159.N1	28-SEP-2006 09:53:10	Bright	31.500	162	34Alp Aqr	2.9440	5350.0	63	23938	No
32	GOM_NL__2PRFIN20060928_095702_000000302051_00337_23938_2160.N1	28-SEP-2006 09:57:02	Bright	30.000	90	54Alp Peg	2.4870	11000.	60	23938	No
33	GOM_NL__2PRFIN20060928_100042_000000302051_00337_23938_2161.N1	28-SEP-2006 10:00:42	Bright	29.500	93	53Bet Peg	2.5200	3100.0	59	23938	No
34	GOM_NL__2PRFIN20060928_101047_000000302051_00337_23938_2162.N1	28-SEP-2006 10:10:47	Bright	30.000	89	5Alp Cep	2.4510	8000.0	60	23938	No
35	GOM_NL__2PRFIN20060928_101804_000000312051_00337_23938_2163.N1	28-SEP-2006 10:18:04	Bright	30.500	49	1Alp UMi	1.9900	6300.0	61	23938	No
36	GOM_NL__2PRFIN20060928_101955_000000302051_00337_23938_2164.N1	28-SEP-2006 10:19:55	Bright	30.000	60	7Bet UMi	2.0810	3950.0	60	23938	No
37	GOM_NL__2PRFIN20060928_102555_000000312051_00337_23938_2165.N1	28-SEP-2006 10:25:55	Bright	31.000	36	50Alp UMa	1.8000	6300.0	62	23938	No
38	GOM_NL__2PRFIN20060928_102725_000000302051_00337_23938_2166.N1	28-SEP-2006 10:27:25	Bright	30.000	82	48Bet UMa	2.3650	10600.	60	23938	No
39	GOM_NL__2PRFIN20060928_103036_000000292051_00337_23938_2167.N1	28-SEP-2006 10:30:36	Bright	28.500	174	52Psi UMa	3.0040	4400.0	57	23938	No
40	GOM_NL__2PRFIN20060928_103715_000000292051_00337_23938_2168.N1	28-SEP-2006 10:37:15	Bright	29.000	166	17Eps Leo	2.9800	6000.0	58	23938	No
41	GOM_NL__2PRFIN20060928_104642_000000382051_00337_23938_2169.N1	28-SEP-2006 10:46:42	Twilight	38.000	48	30Alp Hya	1.9770	4100.0	76	23938	No
42	GOM_NL__2PRFIN20060928_105623_000000352051_00337_23938_2170.N1	28-SEP-2006 10:56:23	Dark	35.000	65	Lam Vel	2.2040	4400.0	70	23938	No

102	GOM_NL__2PRFIN20060928_163925_000000312051_00341_23942_2159.N1	28-SEP-2006 16:39:25	Bright	30.500	90	54Alp Peg	2.4870	11000.	61	23942	No
103	GOM_NL__2PRFIN20060928_164305_000000312051_00341_23942_2160.N1	28-SEP-2006 16:43:05	Bright	31.000	93	53Bet Peg	2.5200	3100.0	62	23942	No
104	GOM_NL__2PRFIN20060928_165311_000000312051_00341_23942_2161.N1	28-SEP-2006 16:53:11	Bright	30.500	89	5Alp Cep	2.4510	8000.0	61	23942	No
105	GOM_NL__2PRFIN20060928_170028_000000302051_00341_23942_2162.N1	28-SEP-2006 17:00:28	Bright	29.500	49	1Alp UMi	1.9900	6300.0	59	23942	No
106	GOM_NL__2PRFIN20060928_170220_000000472051_00341_23942_2163.N1	28-SEP-2006 17:02:20	Bright	46.500	60	7Bet UMi	2.0810	3950.0	93	23942	No
107	GOM_NL__2PRFIN20060928_170820_000000282051_00341_23942_2164.N1	28-SEP-2006 17:08:20	Bright	28.000	36	50Alp UMa	1.8000	6300.0	56	23942	No
108	GOM_NL__2PRFIN20060928_170949_000000292051_00341_23942_2165.N1	28-SEP-2006 17:09:49	Bright	28.500	82	48Bet UMa	2.3650	10600.	57	23942	No
109	GOM_NL__2PRFIN20060928_171301_000000462051_00341_23942_2166.N1	28-SEP-2006 17:13:01	Bright	46.000	174	52Psi UMa	3.0040	4400.0	92	23942	No
110	GOM_NL__2PRFIN20060928_171940_000000292051_00341_23942_2167.N1	28-SEP-2006 17:19:40	Bright	28.500	166	17Eps Leo	2.9800	6000.0	57	23942	No
111	GOM_NL__2PRFIN20060928_172907_000000432051_00341_23942_2168.N1	28-SEP-2006 17:29:07	Twilight	43.000	48	30Alp Hya	1.9770	4100.0	86	23942	No
112	GOM_NL__2PRFIN20060928_173848_000000382051_00341_23942_2169.N1	28-SEP-2006 17:38:48	Dark	37.500	65	Lam Vel	2.2040	4400.0	75	23942	No
113	GOM_NL__2PRFIN20060928_174206_000000362051_00341_23942_2170.N1	28-SEP-2006 17:42:06	Dark	35.500	46	Del Vel	1.9540	10600.	71	23942	No
114	GOM_NL__2PRFIN20060928_174341_000000452051_00342_23943_2171.N1	28-SEP-2006 17:43:41	Dark	45.000	41	Eps Car	1.8600	4100.0	90	23943	No
115	GOM_NL__2PRFIN20060928_175553_000000322051_00342_23943_2175.N1	28-SEP-2006 17:55:53	Dark	31.500	143	Alp Hyi	2.8570	7200.0	63	23943	No
116	GOM_NL__2PRFIN20060928_175720_000000452051_00342_23943_2176.N1	28-SEP-2006 17:57:20	Dark	45.000	9	Alp Eri	0.45300	24000.	90	23943	No
117	GOM_NL__2PRFIN20060928_180246_000000382051_00342_23943_2177.N1	28-SEP-2006 18:02:46	Straylight	38.000	84	Alp Phe	2.3970	4500.0	76	23943	No
118	GOM_NL__2PRFIN20060928_180729_000000362051_00342_23943_2178.N1	28-SEP-2006 18:07:29	Straylight	35.500	18	24Alp PsA	1.1660	9700.0	71	23943	No
119	GOM_NL__2PRFIN20060928_182001_000000302051_00342_23943_2179.N1	28-SEP-2006 18:20:01	Bright	30.000	90	54Alp Peg	2.4870	11000.	60	23943	No
120	GOM_NL__2PRFIN20060928_182342_000000322051_00342_23943_2180.N1	28-SEP-2006 18:23:42	Bright	31.500	93	53Bet Peg	2.5200	3100.0	63	23943	No
121	GOM_NL__2PRFIN20060928_183348_000000302051_00342_23943_2181.N1	28-SEP-2006 18:33:48	Bright	29.500	89	5Alp Cep	2.4510	8000.0	59	23943	No
122	GOM_NL__2PRFIN20060928_184104_000000312051_00342_23943_2182.N1	28-SEP-2006 18:41:04	Bright	30.500	49	1Alp UMi	1.9900	6300.0	61	23943	No
123	GOM_NL__2PRFIN20060928_184257_000000312051_00342_23943_2183.N1	28-SEP-2006 18:42:57	Bright	30.500	60	7Bet UMi	2.0810	3950.0	61	23943	No
124	GOM_NL__2PRFIN20060928_184856_000000282051_00342_23943_2184.N1	28-SEP-2006 18:48:56	Bright	27.500	36	50Alp UMa	1.8000	6300.0	55	23943	No
125	GOM_NL__2PRFIN20060928_185025_000000292051_00342_23943_2185.N1	28-SEP-2006 18:50:25	Bright	28.500	82	48Bet UMa	2.3650	10600.	57	23943	No
126	GOM_NL__2PRFIN20060928_185337_000000292051_00342_23943_2186.N1	28-SEP-2006 18:53:37	Bright	29.000	174	52Psi UMa	3.0040	4400.0	58	23943	No
127	GOM_NL__2PRFIN20060928_190016_000000292051_00342_23943_2187.N1	28-SEP-2006 19:00:16	Bright	29.000	166	17Eps Leo	2.9800	6000.0	58	23943	No
128	GOM_NL__2PRFIN20060928_190943_000000372051_00342_23943_2188.N1	28-SEP-2006 19:09:43	Twilight	36.500	48	30Alp Hya	1.9770	4100.0	73	23943	No
129	GOM_NL__2PRFIN20060928_191924_000000362051_00342_23943_2189.N1	28-SEP-2006 19:19:24	Dark	35.500	65	Lam Vel	2.2040	4400.0	71	23943	No
130	GOM_NL__2PRFIN20060928_192242_000000352051_00342_23943_2190.N1	28-SEP-2006 19:22:42	Dark	35.000	46	Del Vel	1.9540	10600.	70	23943	No
131	GOM_NL__2PRFIN20060928_192417_000000382051_00343_23944_2191.N1	28-SEP-2006 19:24:17	Dark	37.500	41	Eps Car	1.8600	4100.0	75	23944	No
132	GOM_NL__2PRFIN20060928_193629_000000332051_00343_23944_2175.N1	28-SEP-2006 19:36:29	Dark	32.500	143	Alp Hyi	2.8570	7200.0	65	23944	No
133	GOM_NL__2PRFIN20060928_193757_000000442051_00343_23944_2176.N1	28-SEP-2006 19:37:57	Dark	43.500	9	Alp Eri	0.45300	24000.	87	23944	No

3. Quality information per product

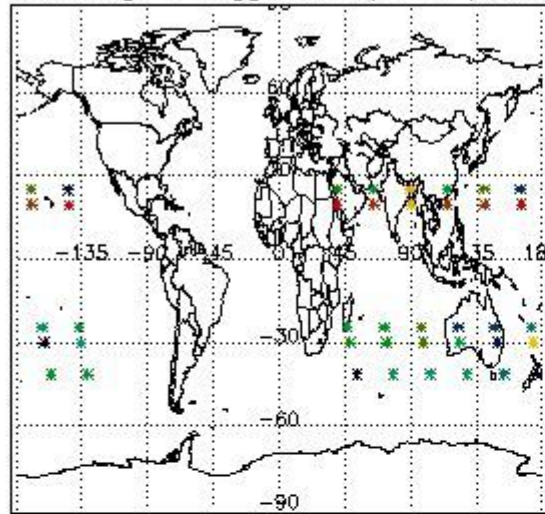
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

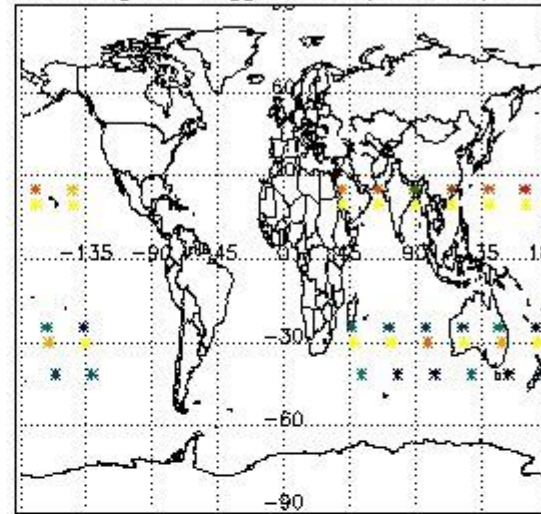


3.2 Plot quality information per product (world map)

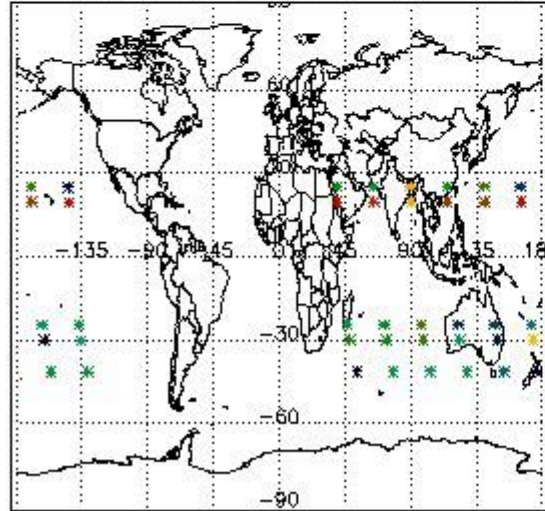
Percentage of flagged data per O3 profile



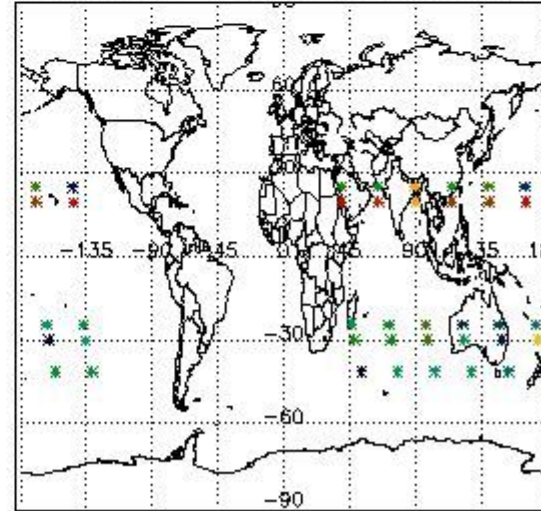
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

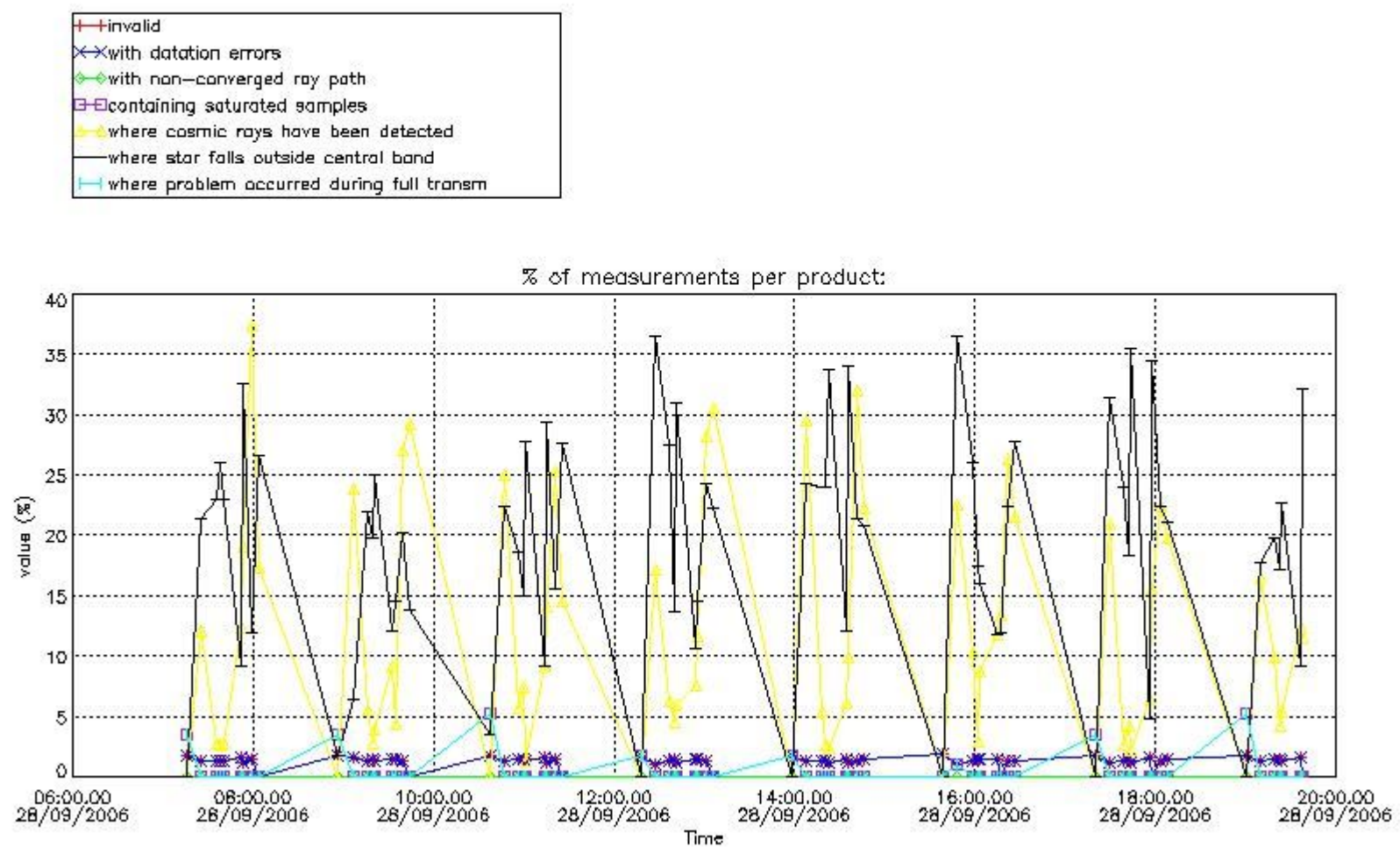


4. Level 1 quality information per product

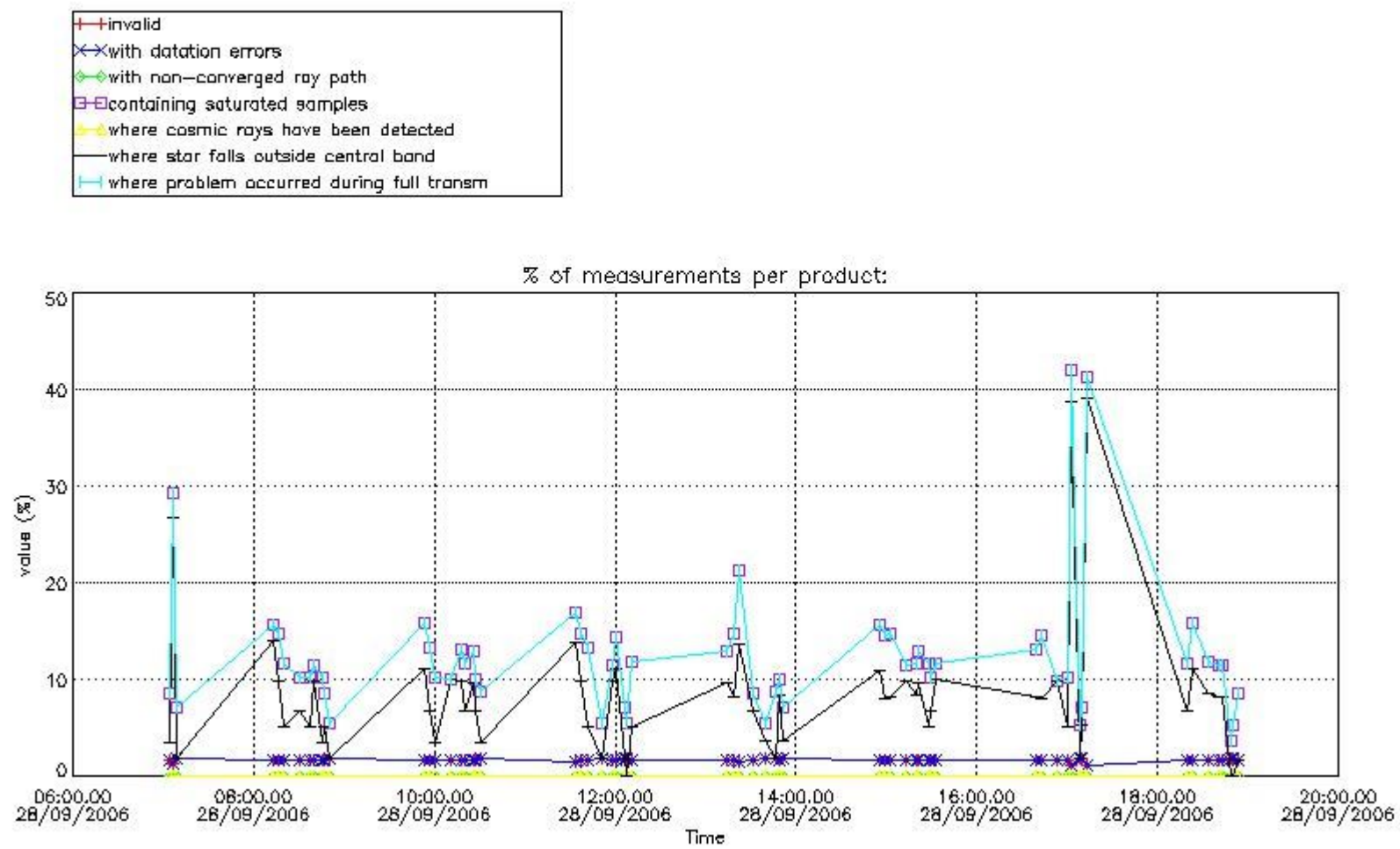
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



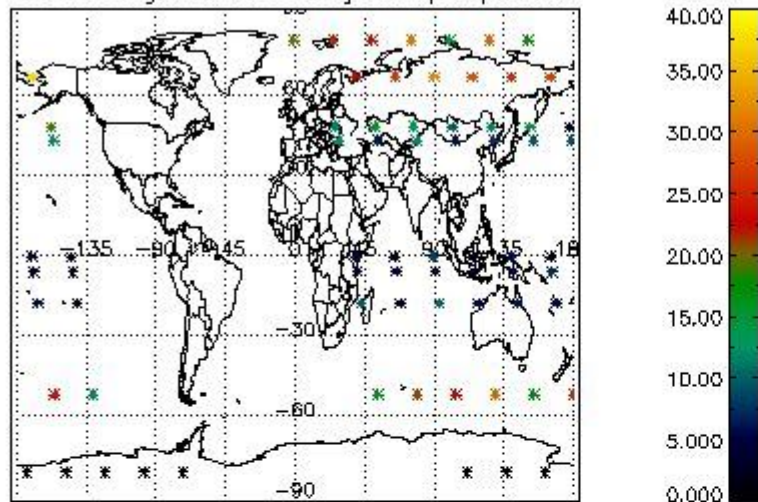
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



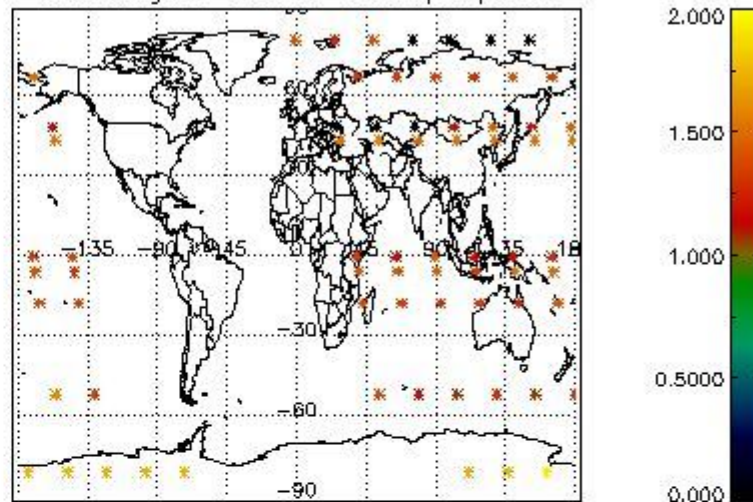
4.2 Plot quality information per product coming from level 1b processing (world map)

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

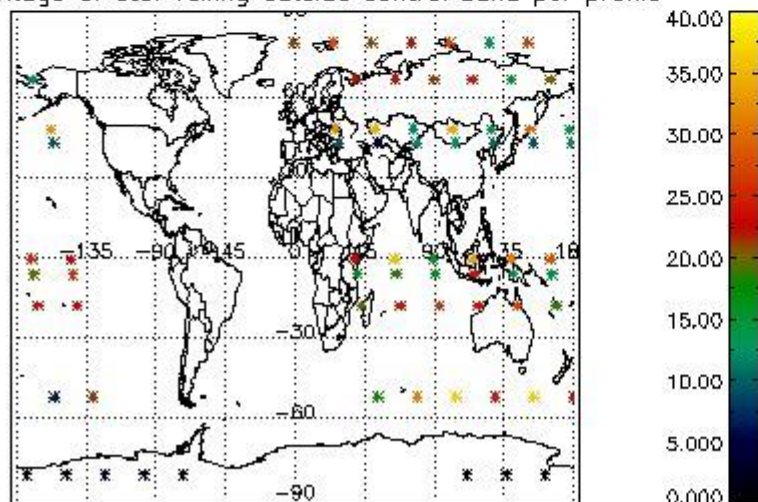
Percentage of cosmic ray hits per profile



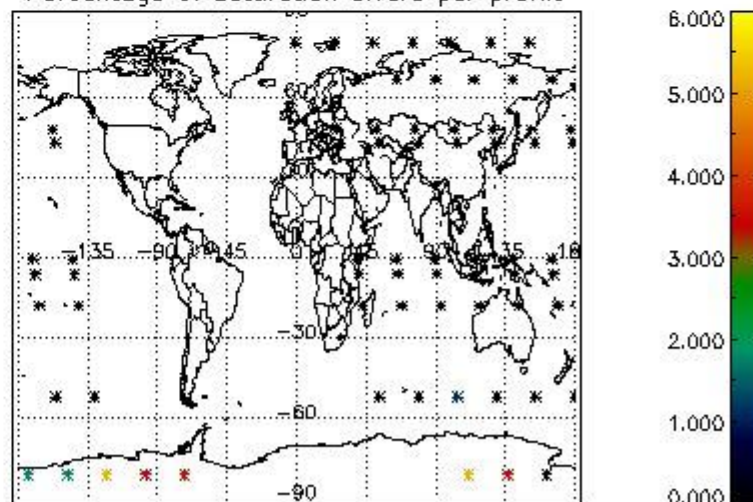
Percentage of datation errors per profile



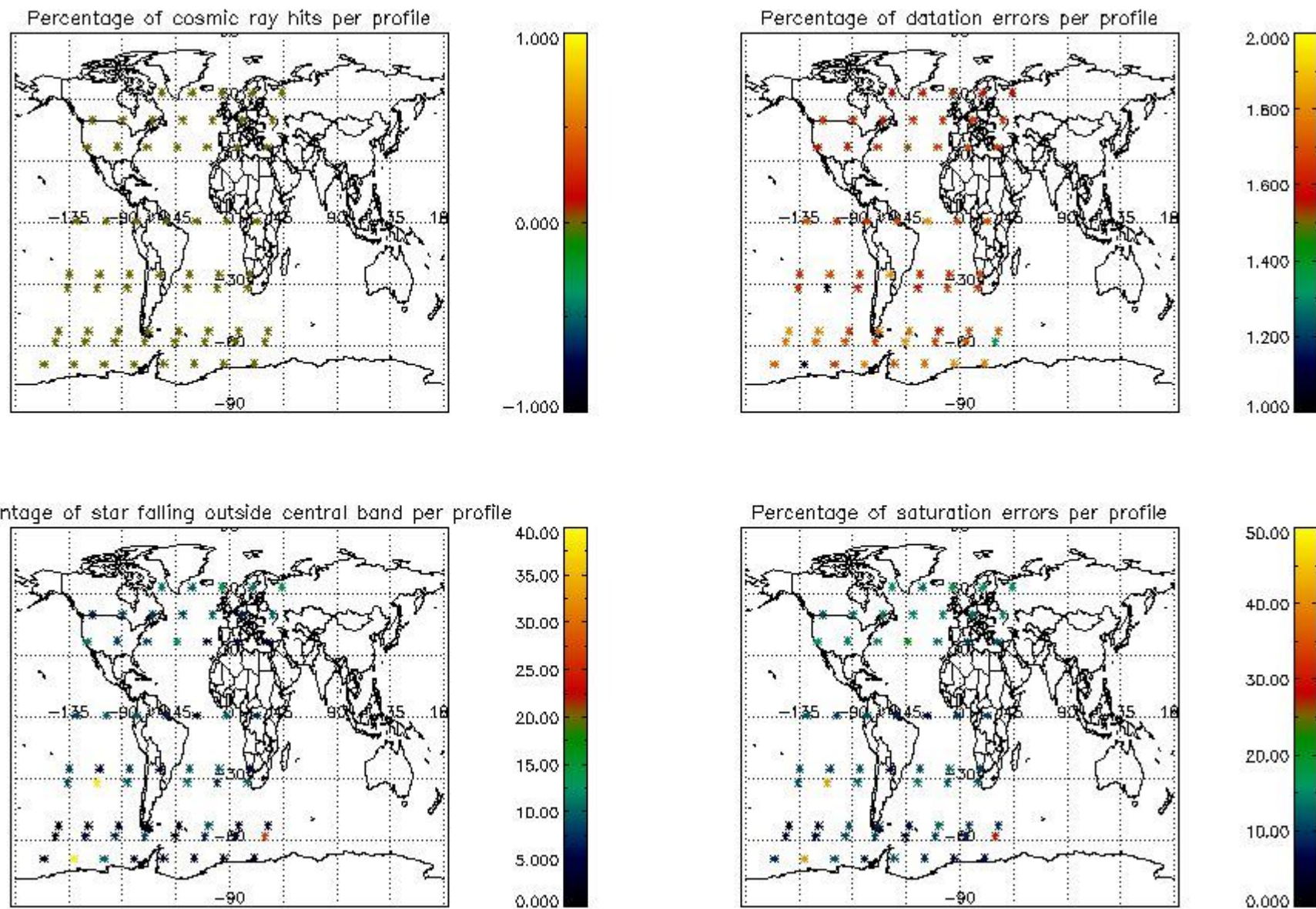
Percentage of star falling outside central band per profile



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

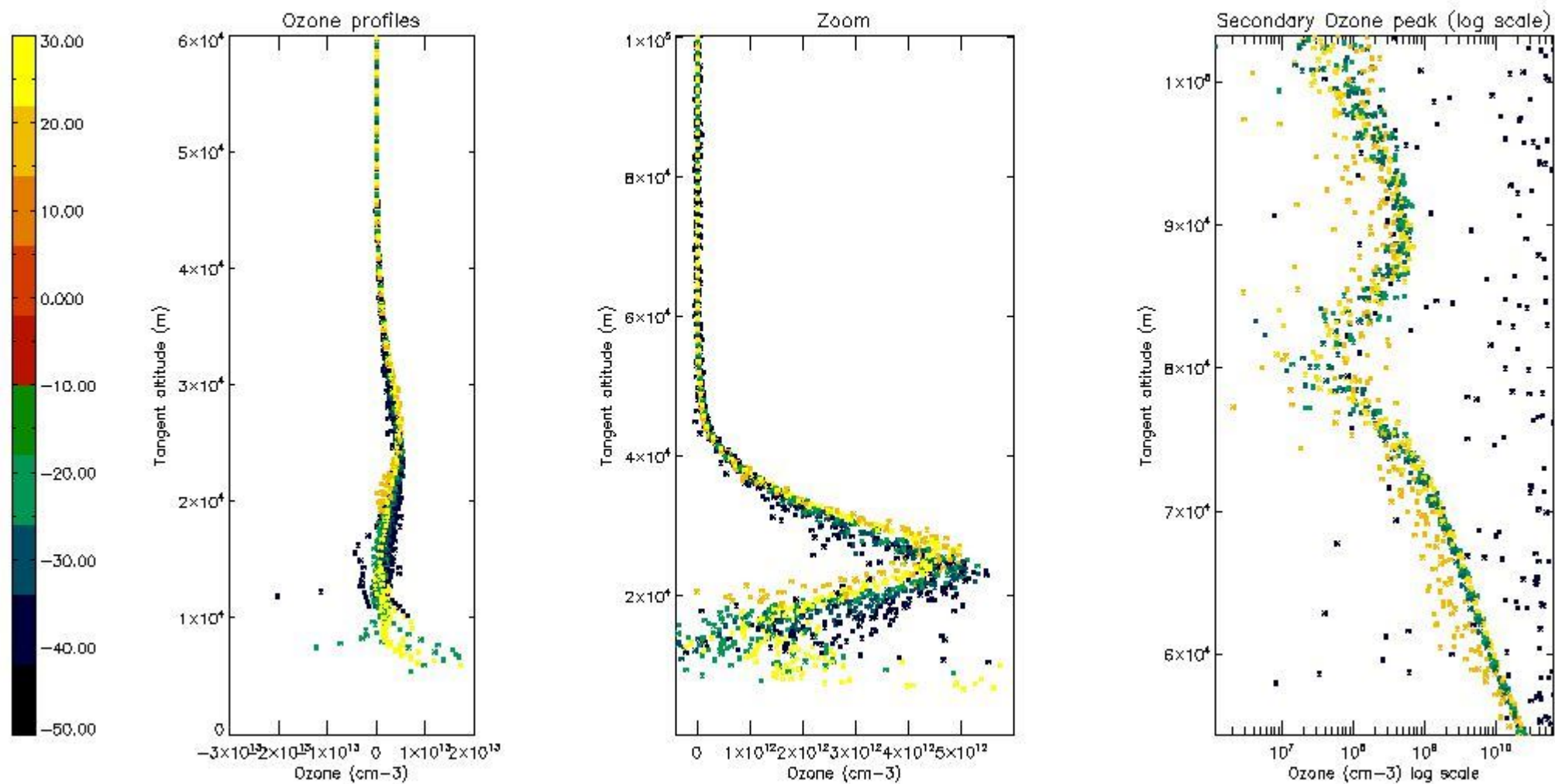
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	34
STD < 20	19

STD < 10	14
STD < 5	7

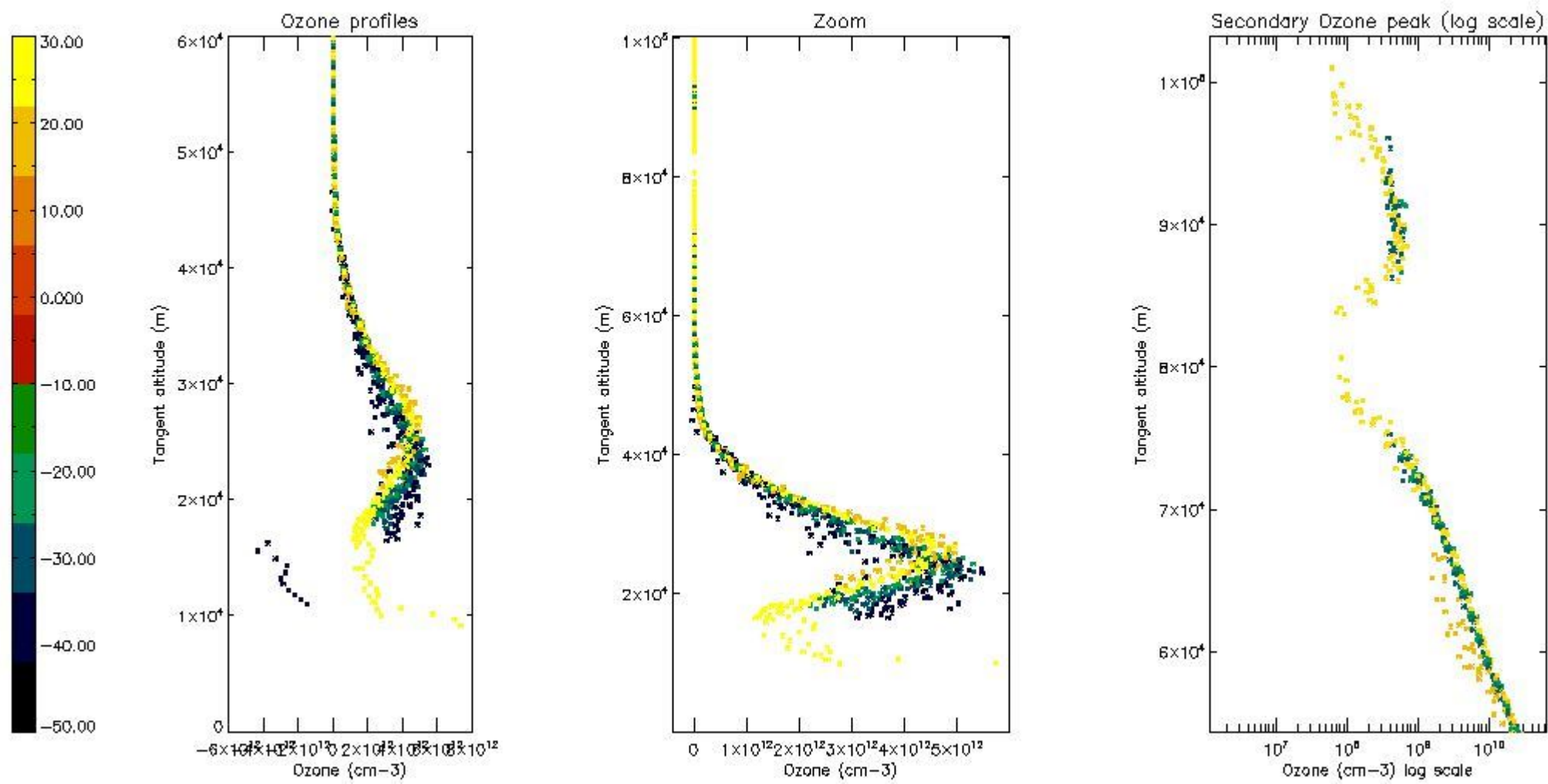
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



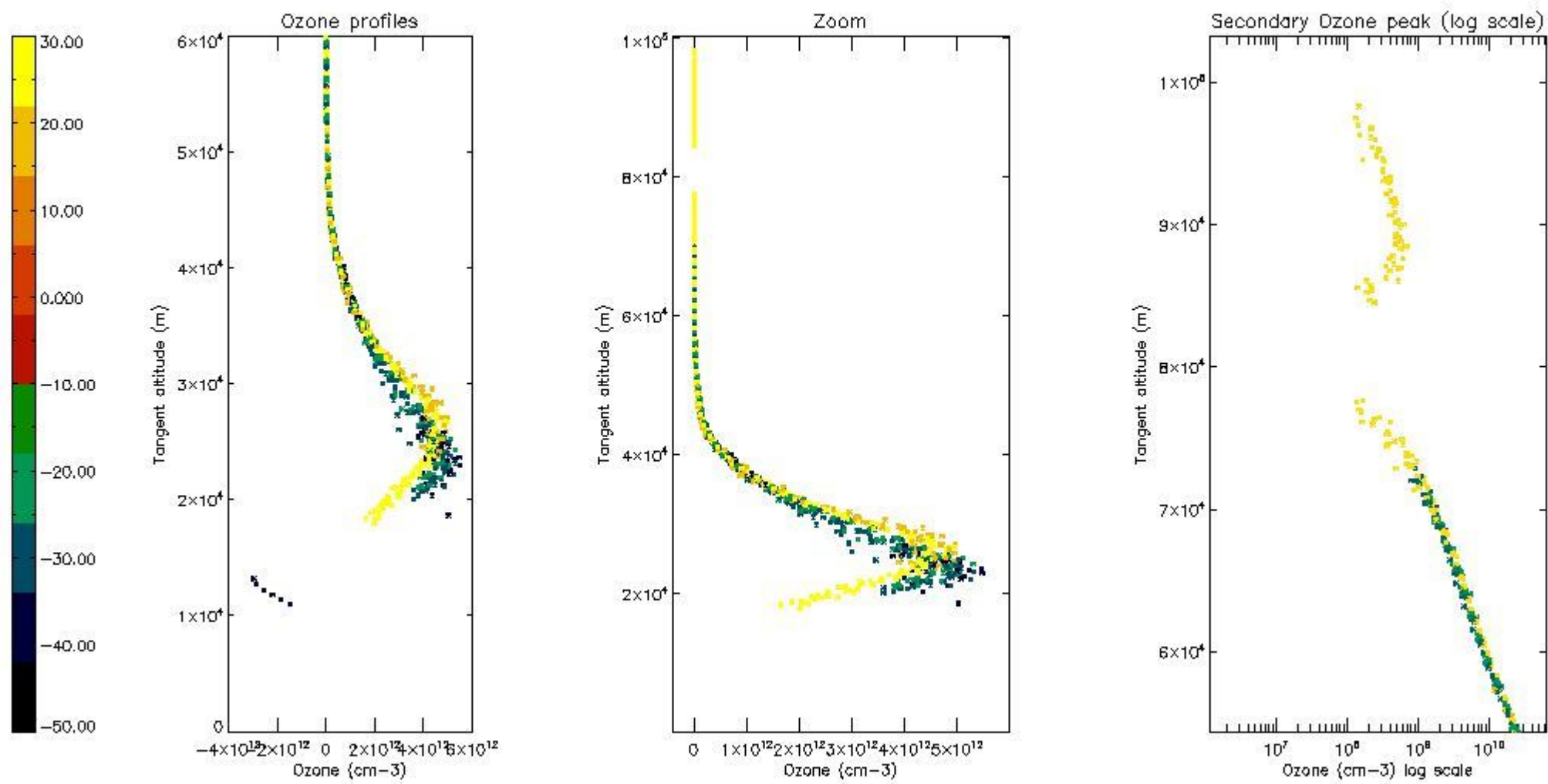
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



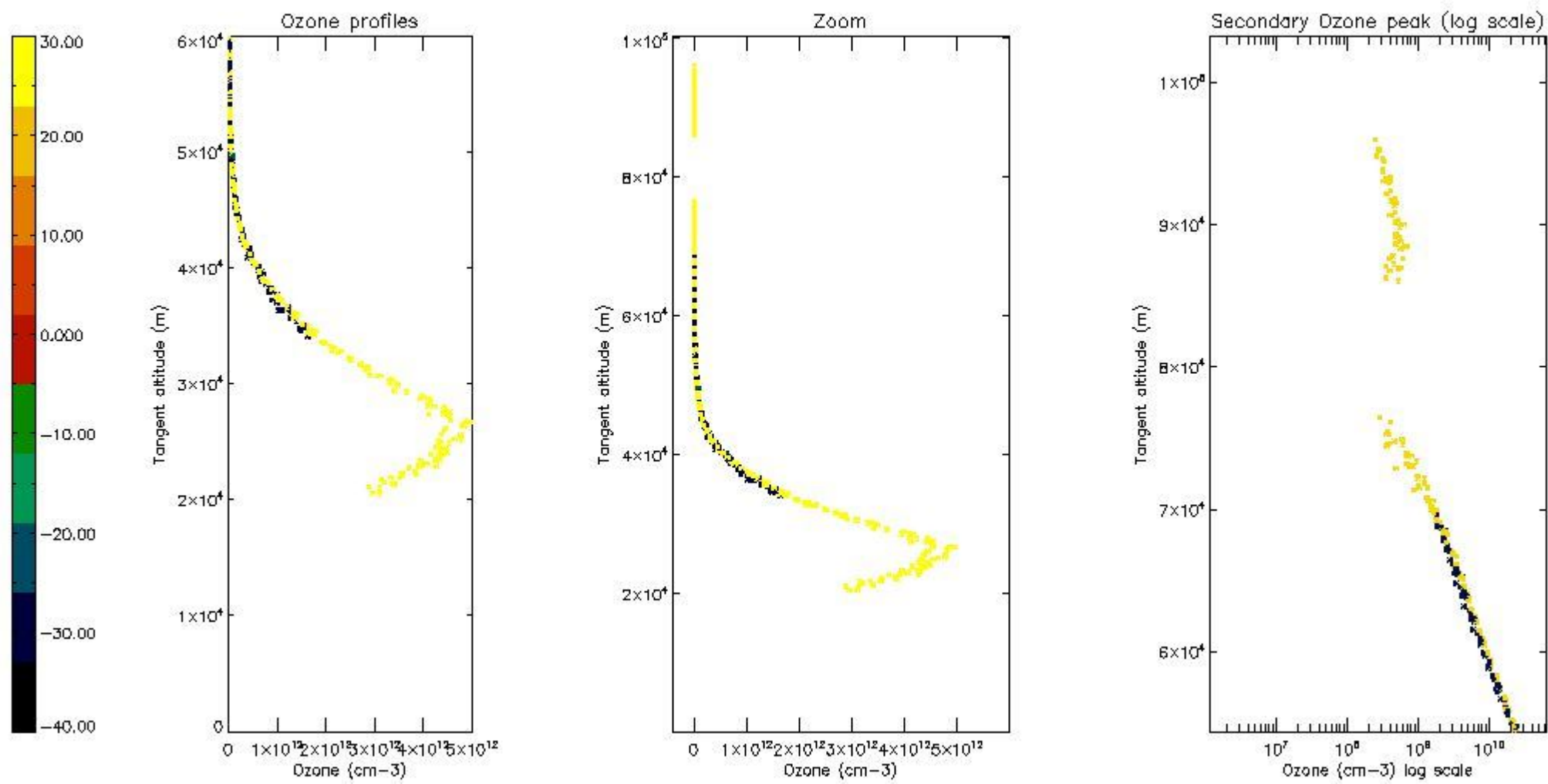
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



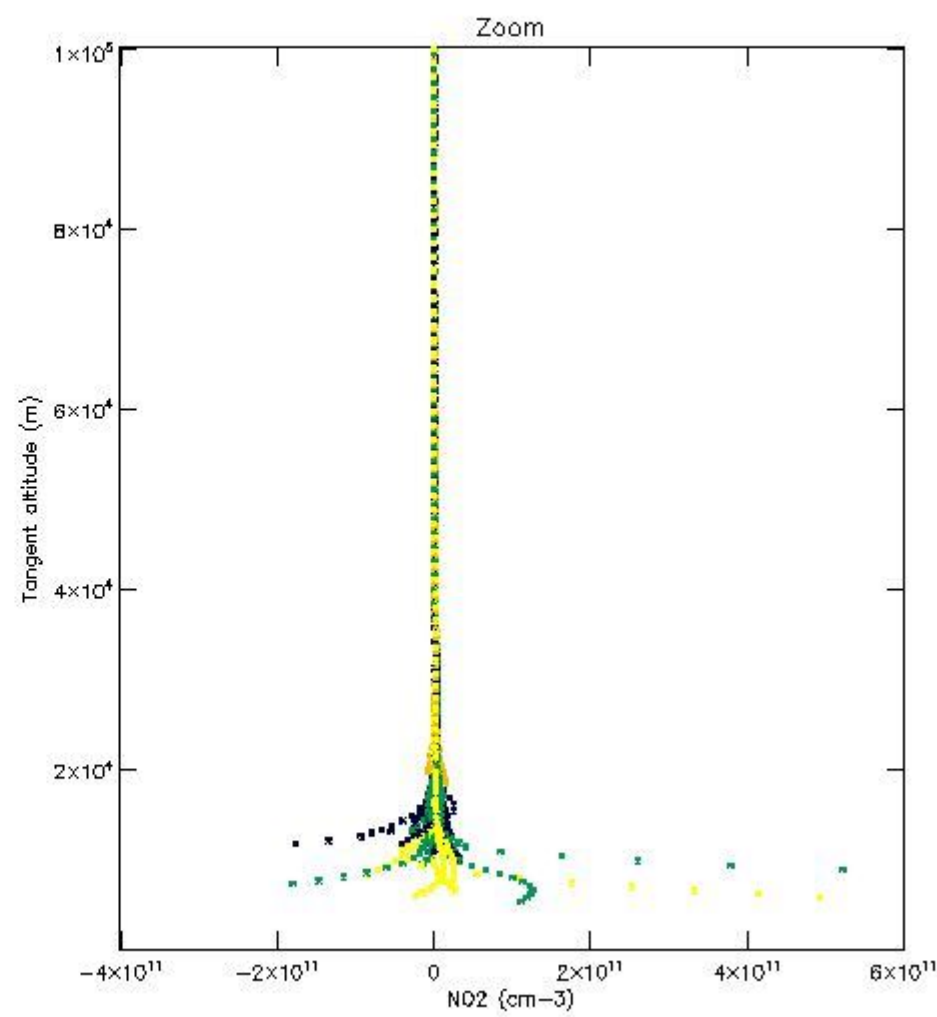
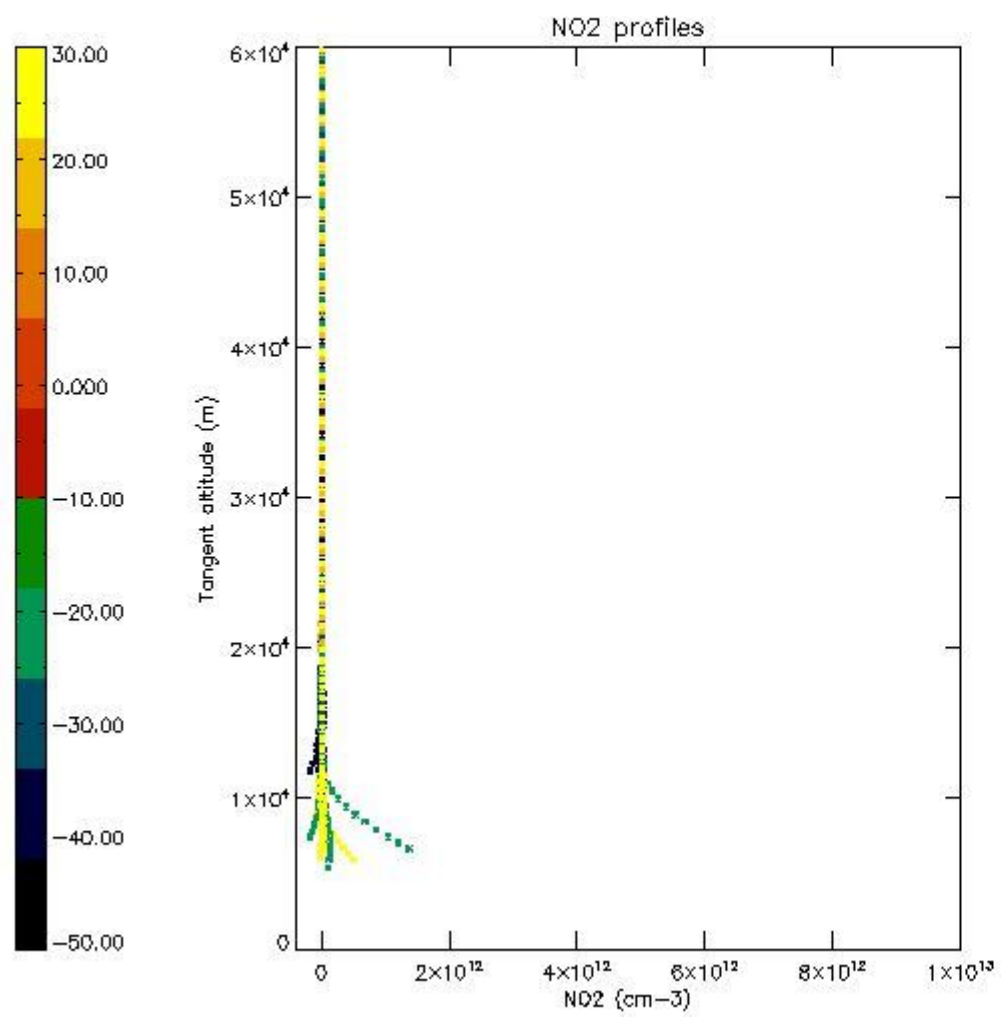
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



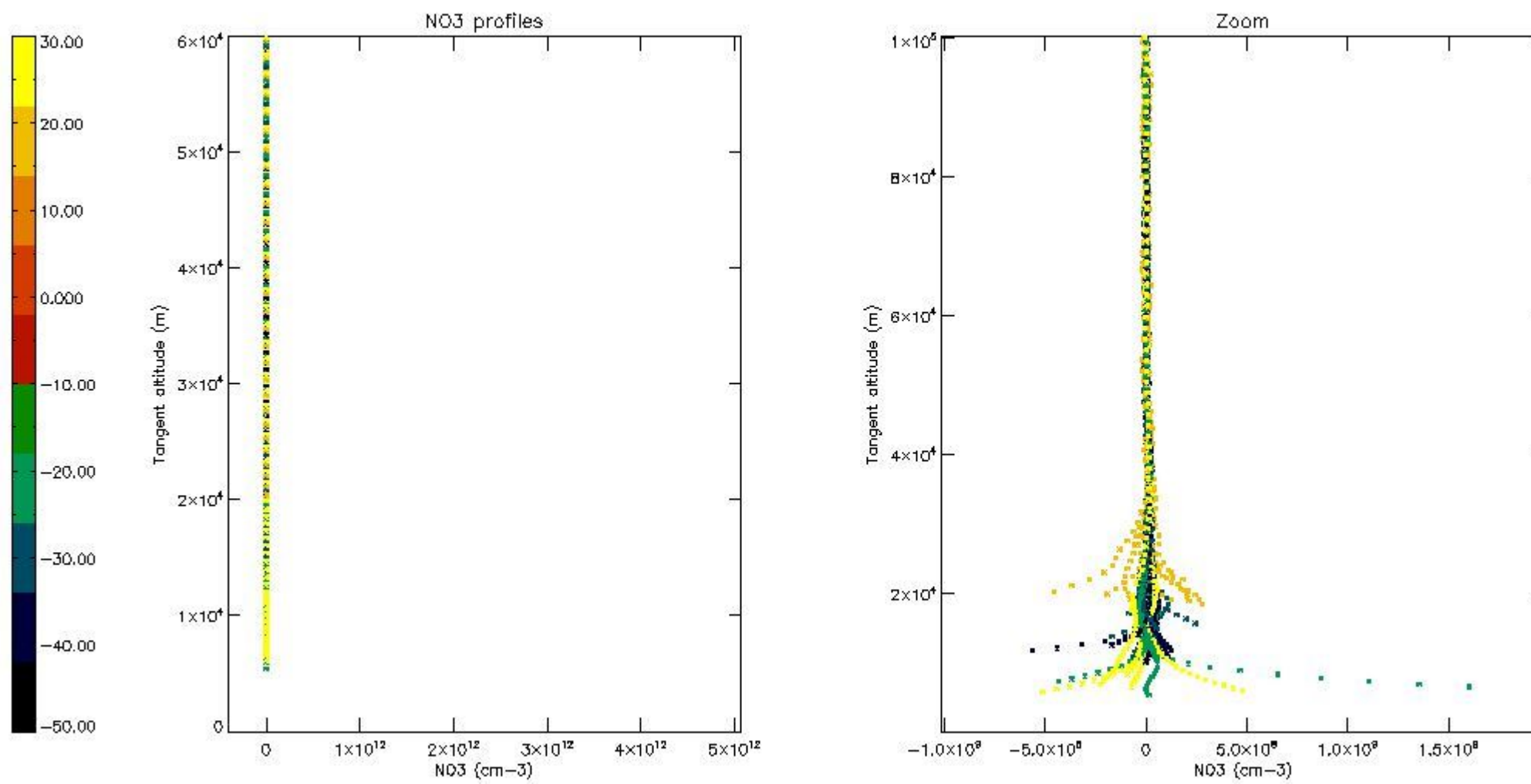
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

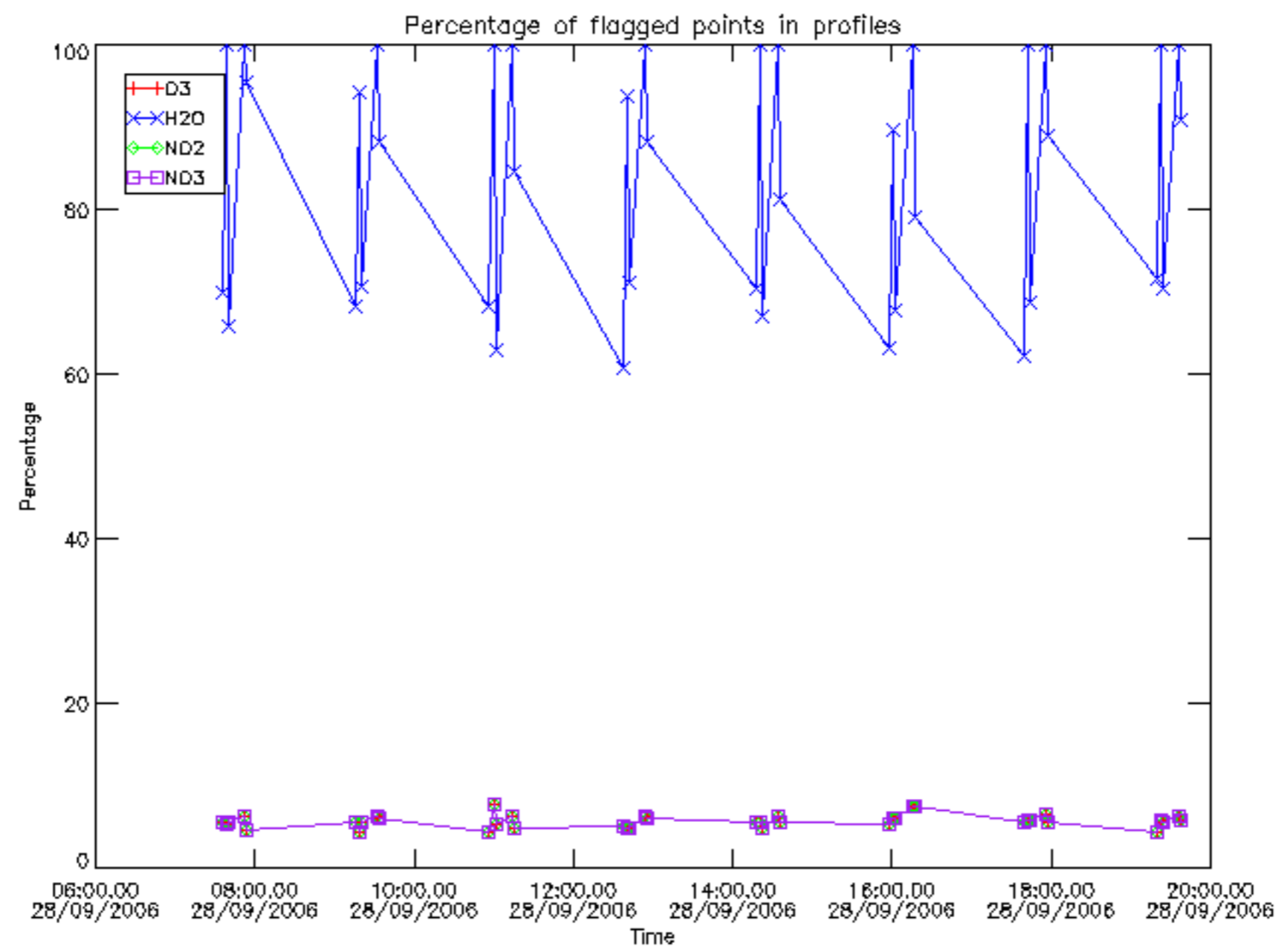
The colorbar represents the latitude.



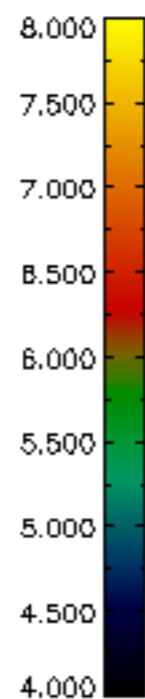
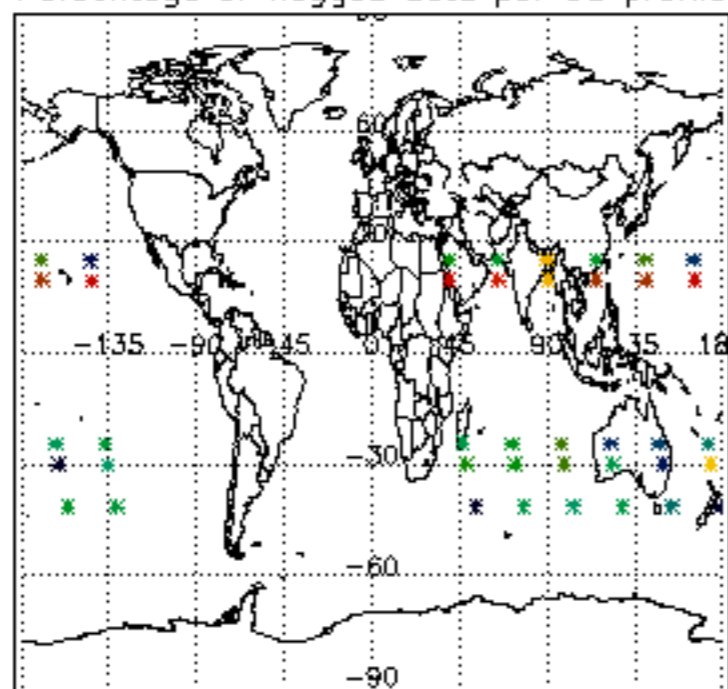
6. Auxiliary Data Files used for the production reported in section 2

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.

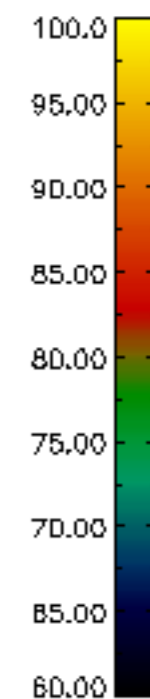
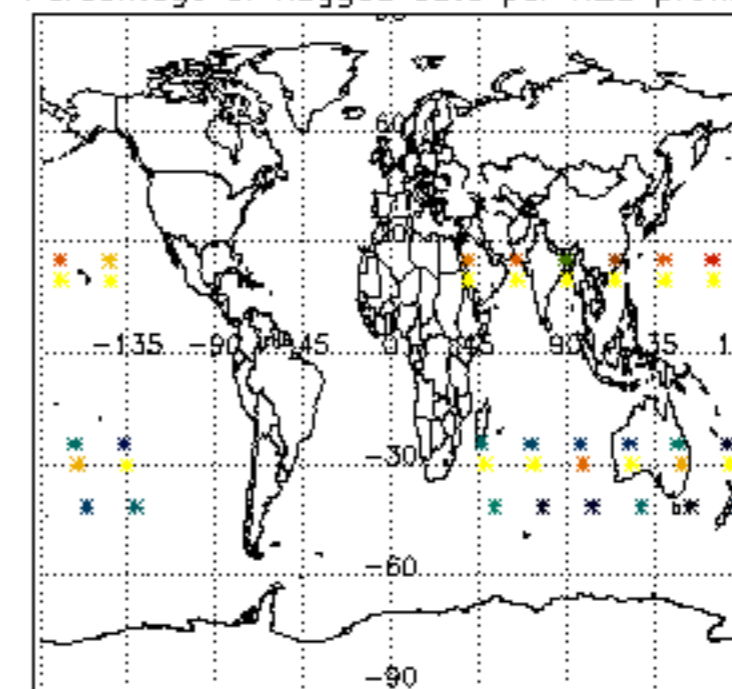
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	28-SEP-2006 07:04:43
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	28-SEP-2006 07:04:43
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	28-SEP-2006 07:04:43



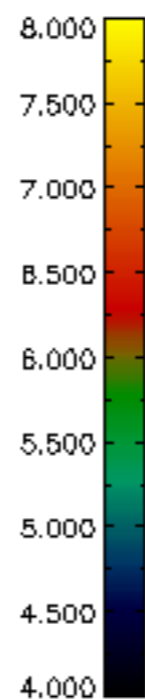
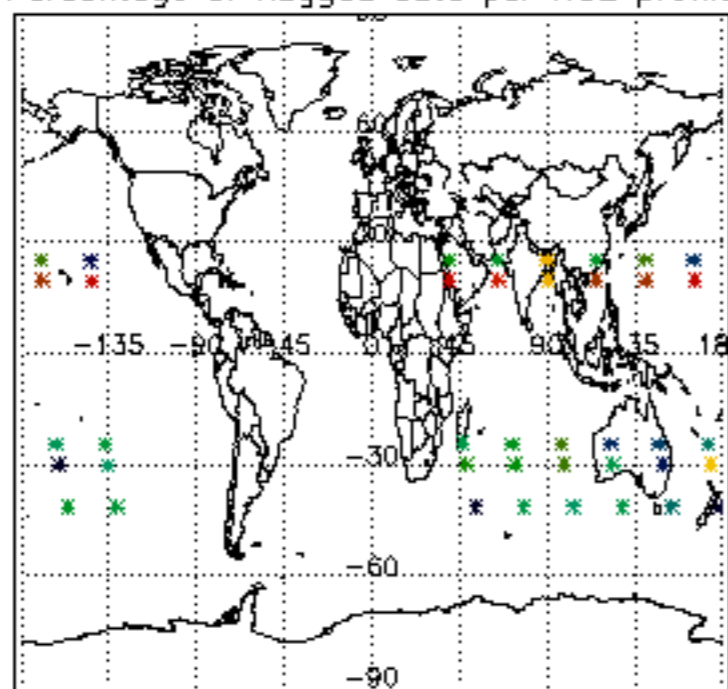
Percentage of flagged data per D3 profile



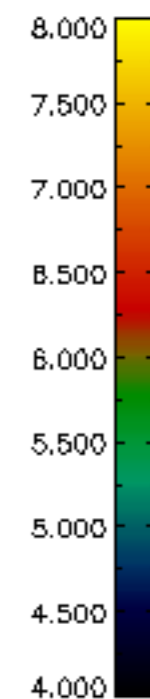
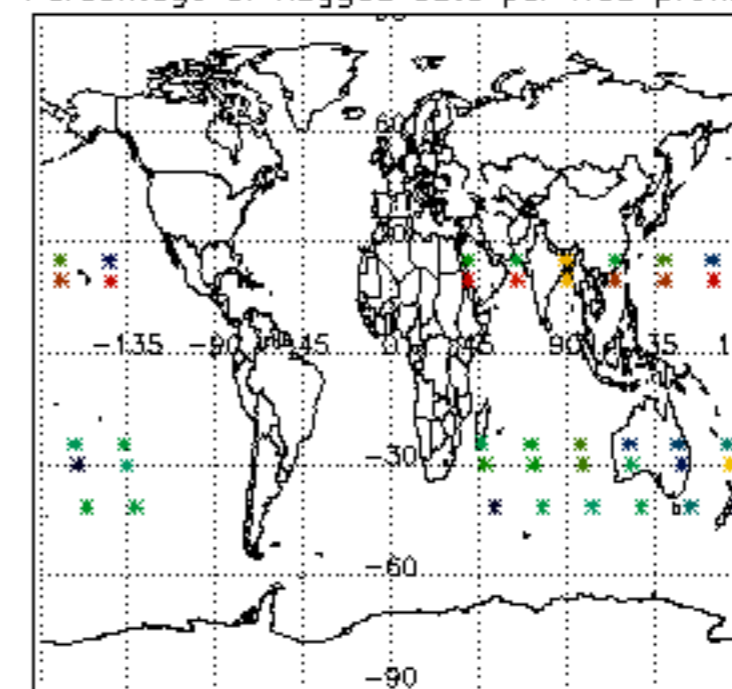
Percentage of flagged data per H2O profile

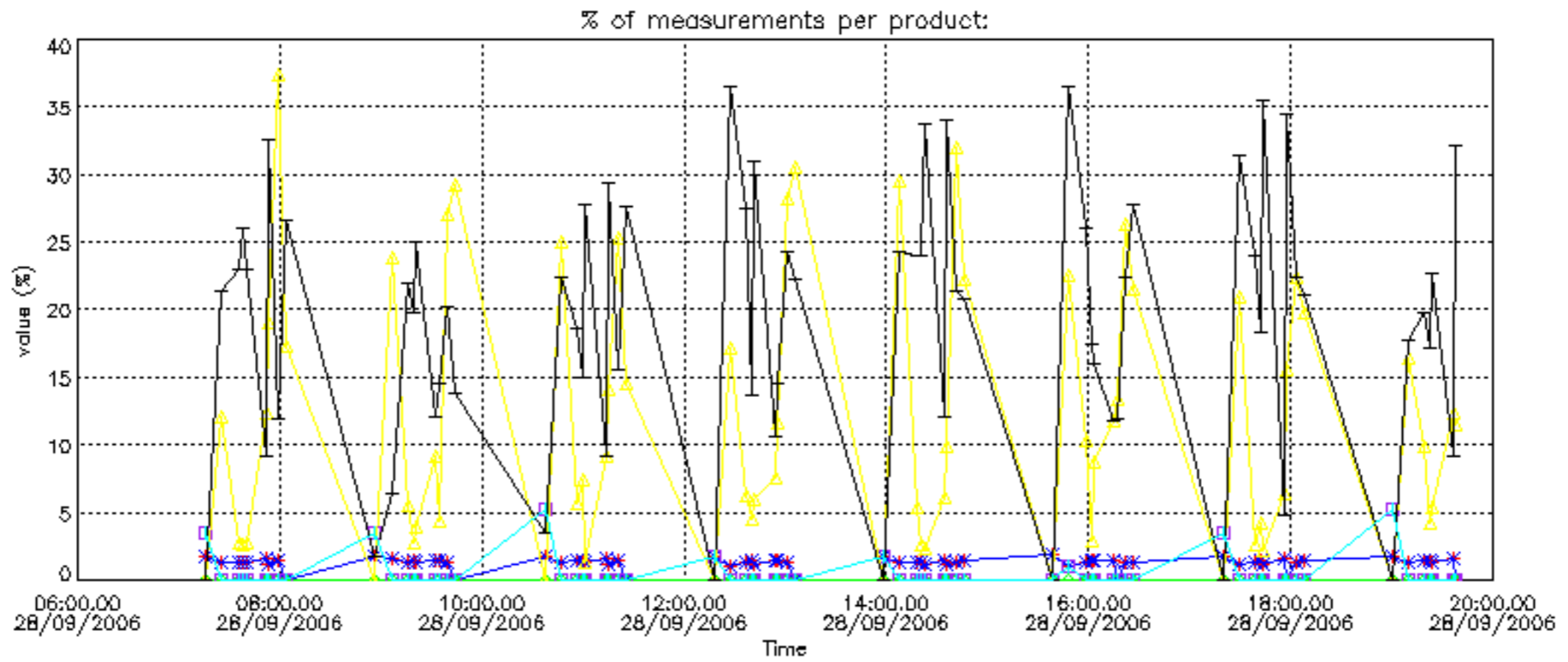


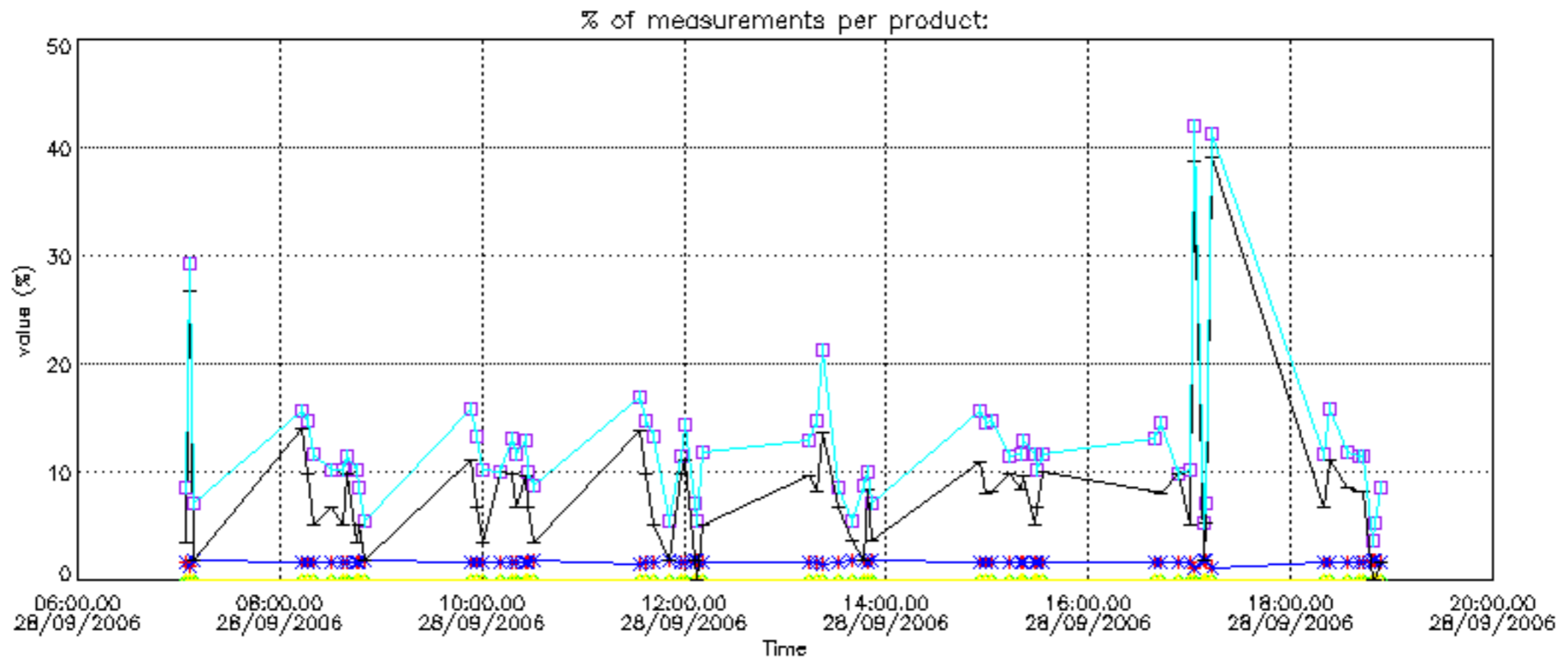
Percentage of flagged data per NO2 profile



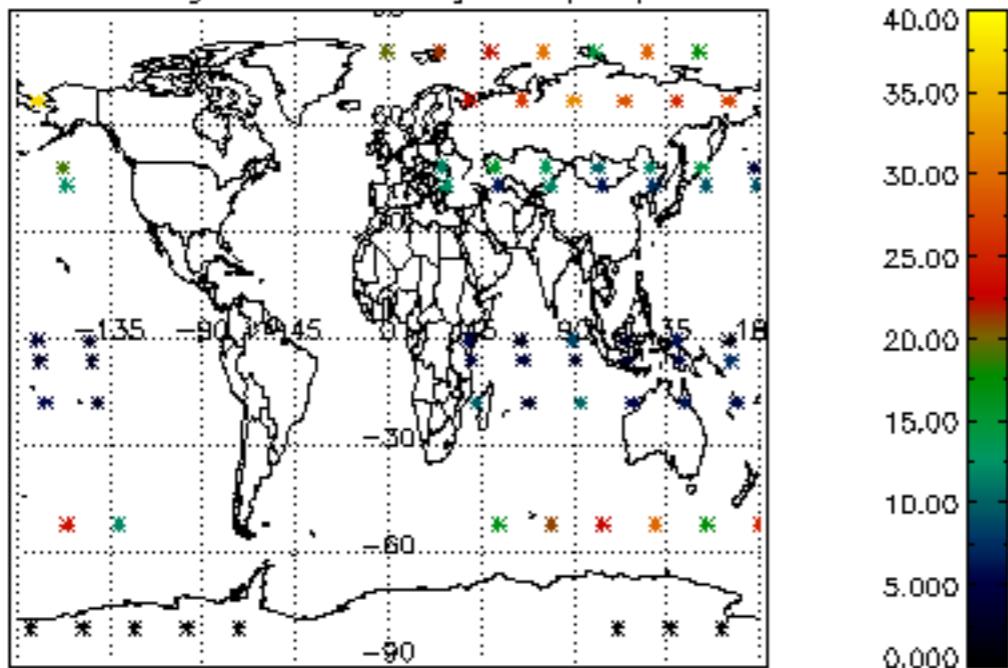
Percentage of flagged data per NO3 profile



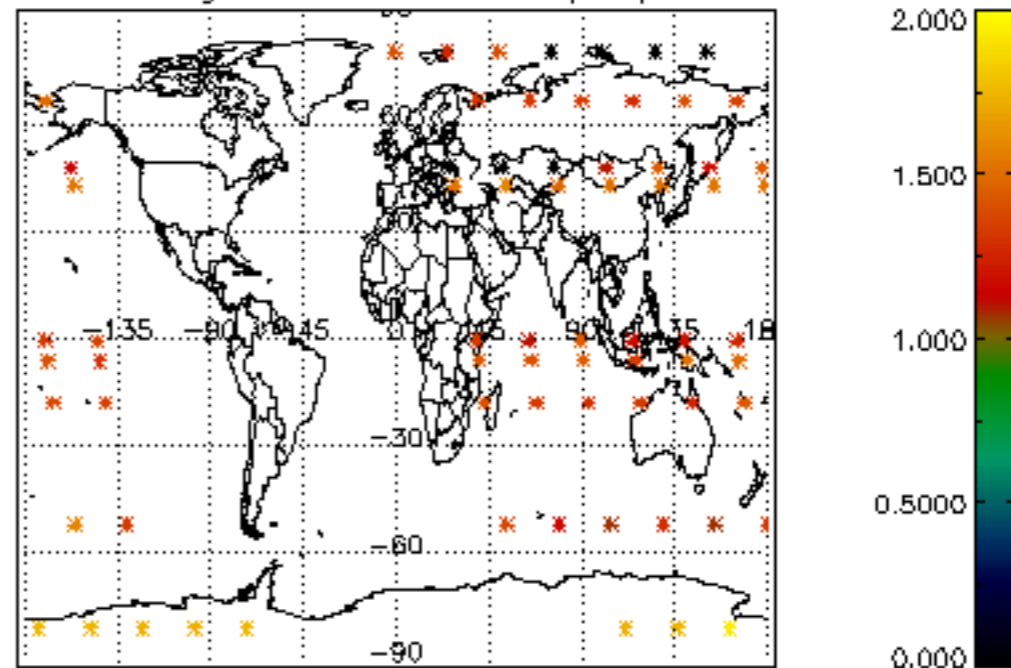




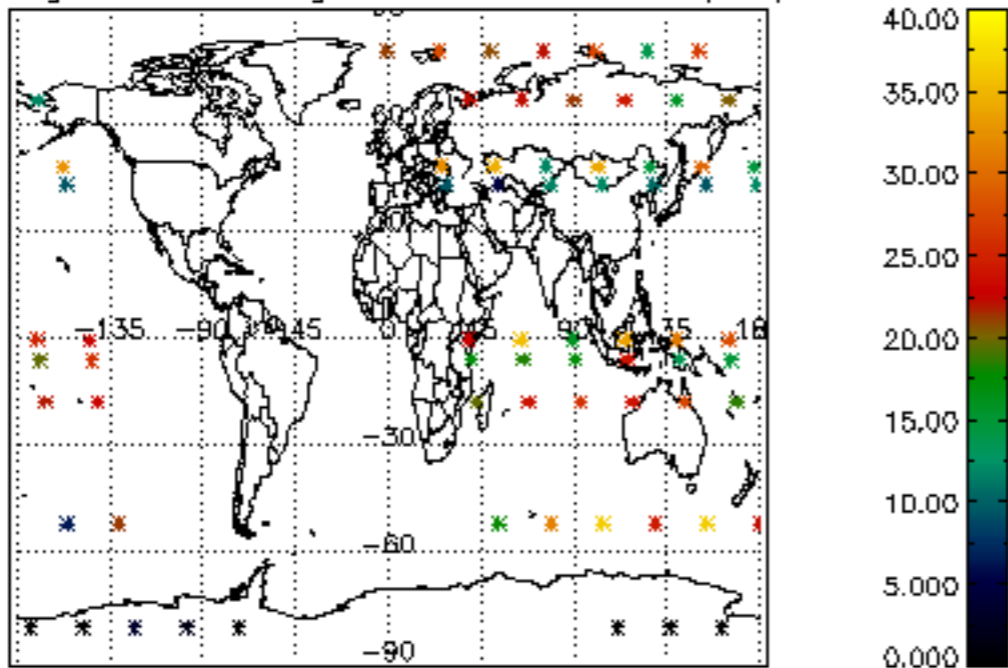
Percentage of cosmic ray hits per profile



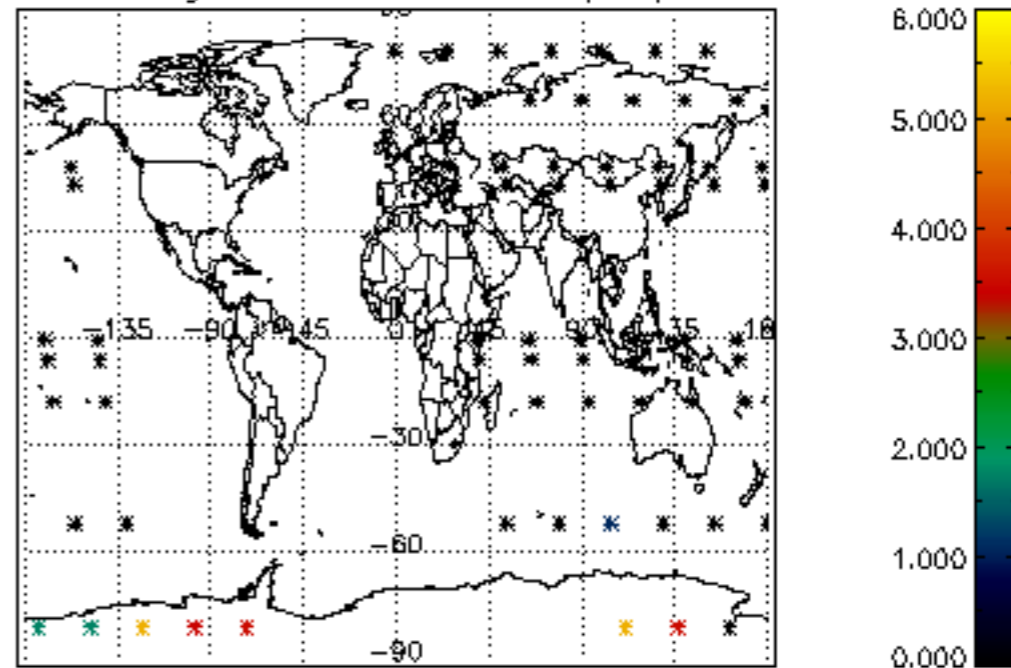
Percentage of datation errors per profile



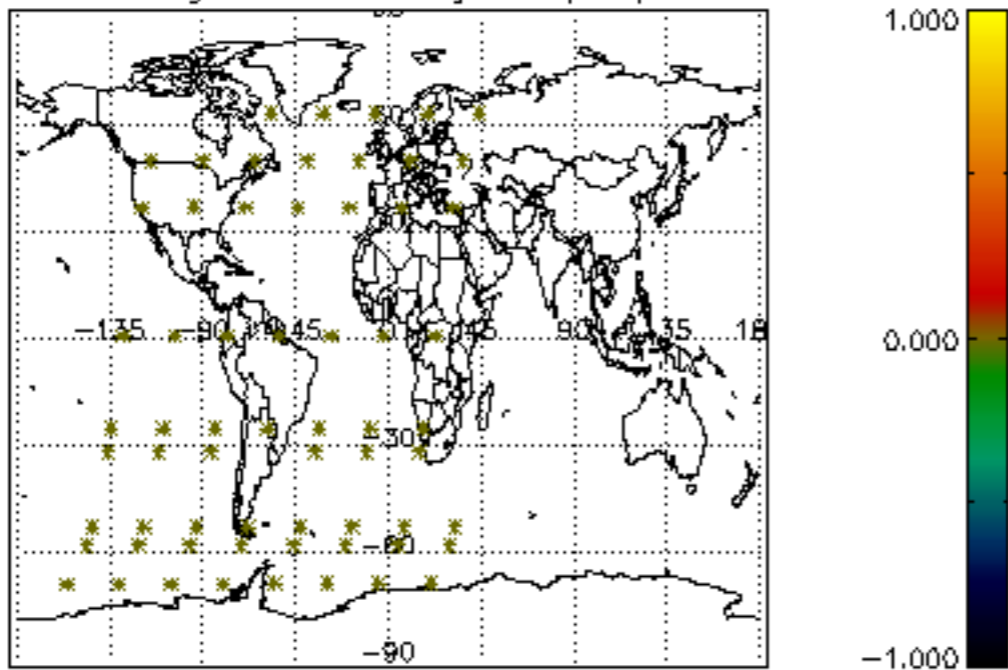
Percentage of star falling outside central band per profile



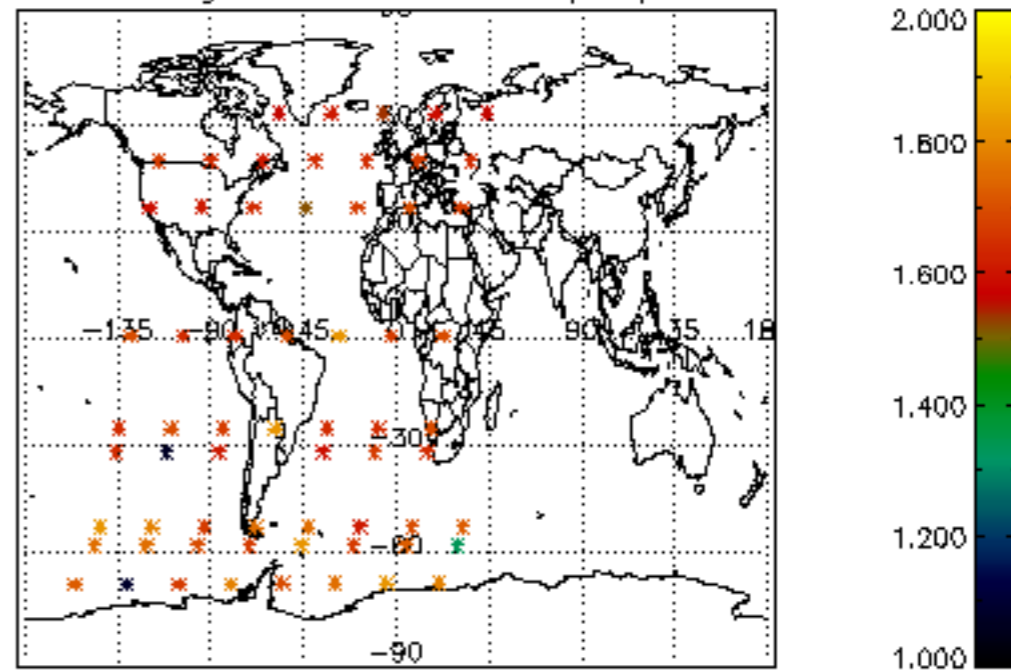
Percentage of saturation errors per profile



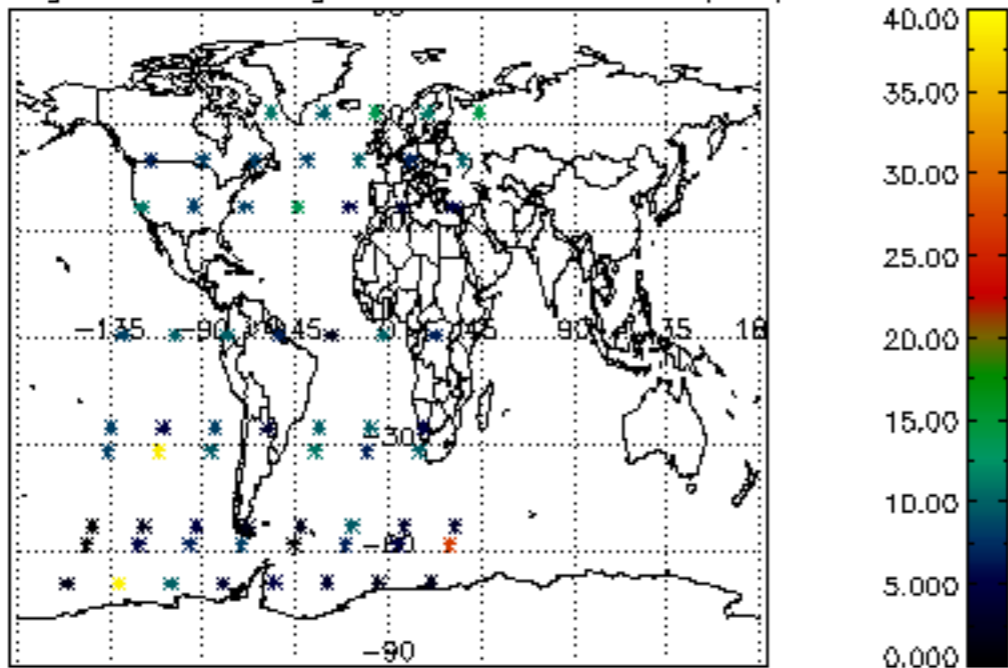
Percentage of cosmic ray hits per profile



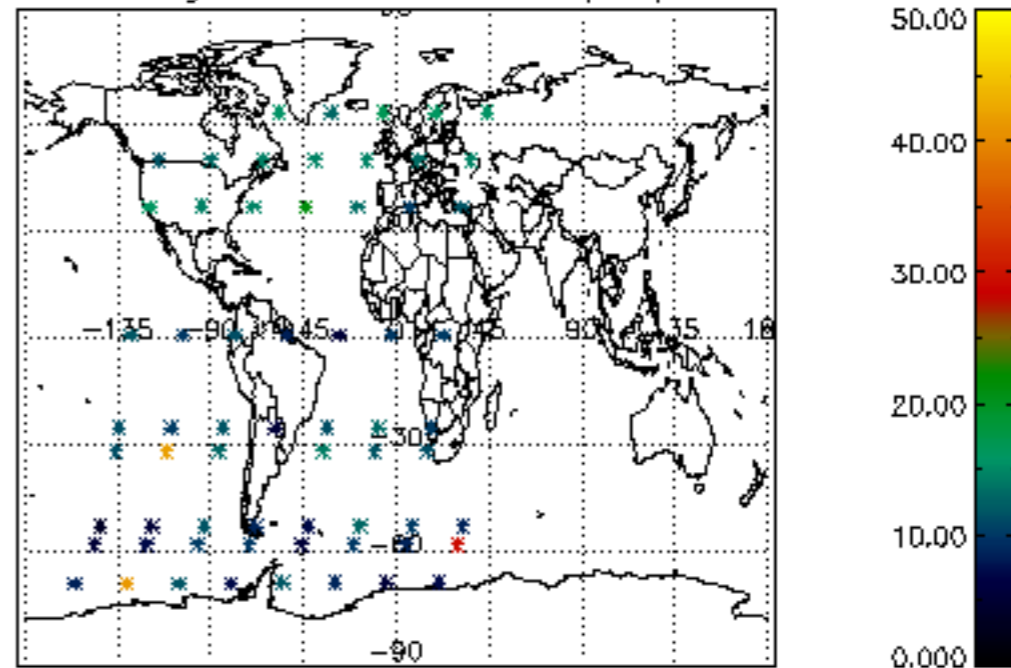
Percentage of datation errors per profile

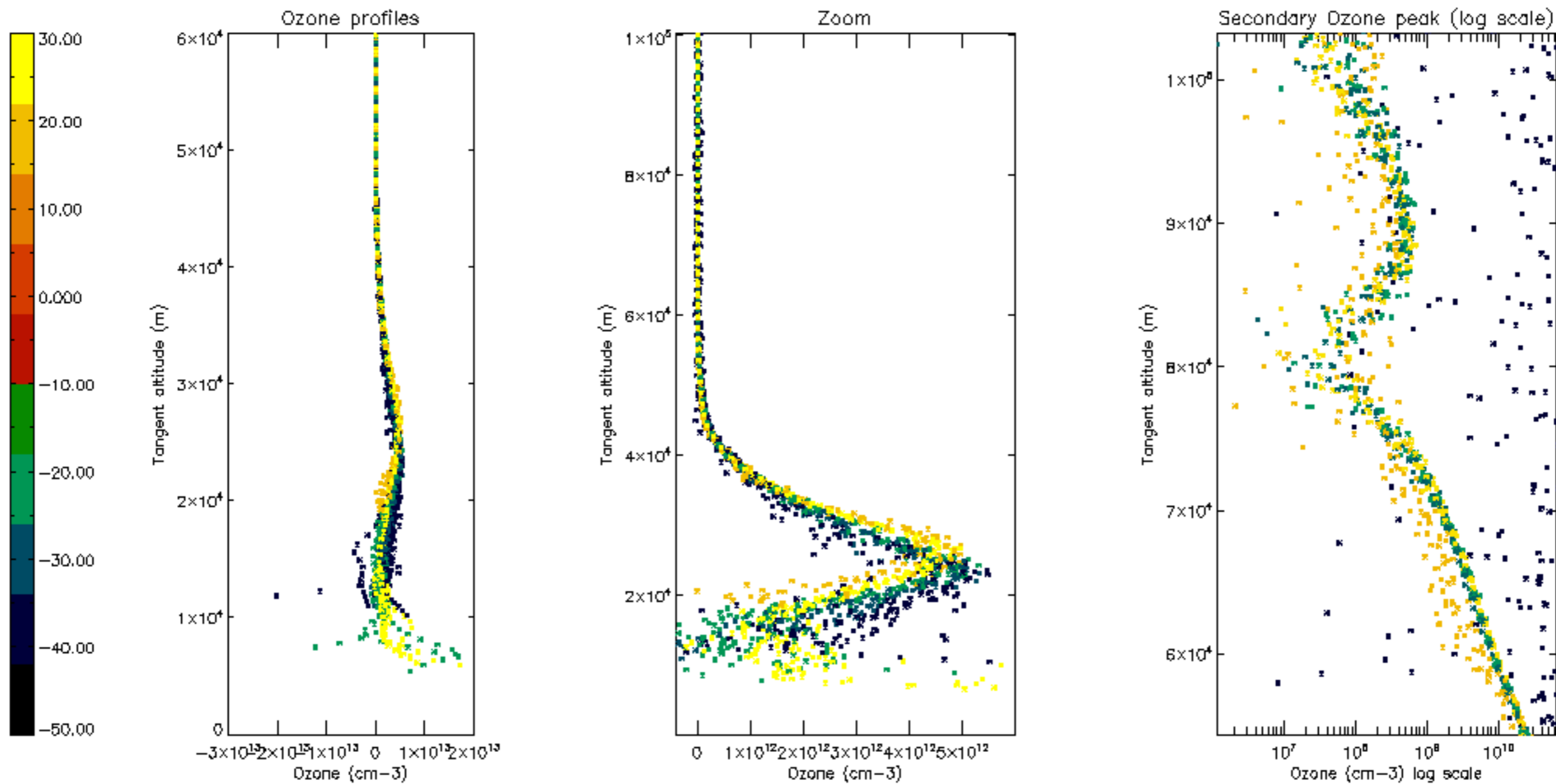


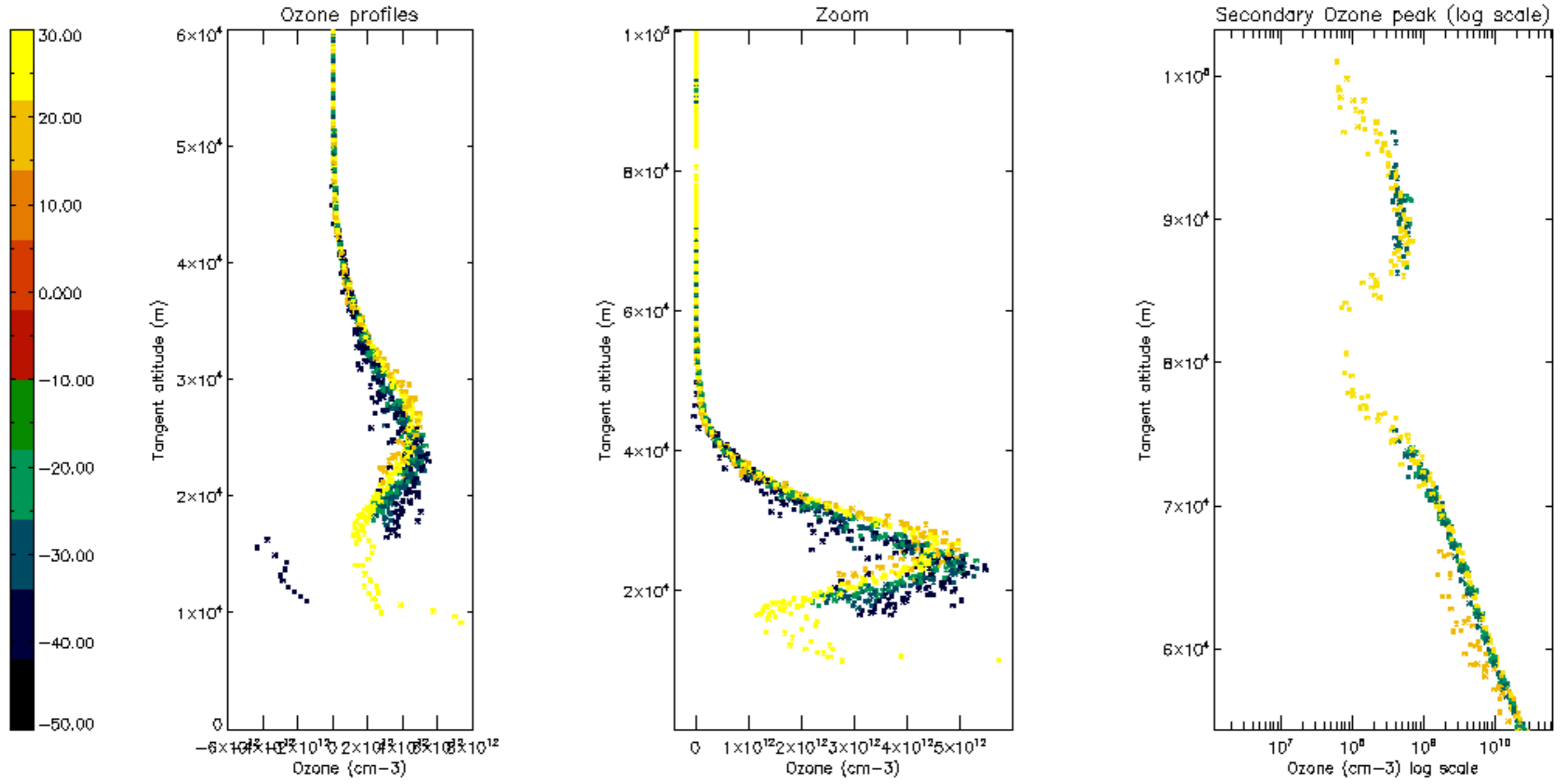
Percentage of star falling outside central band per profile

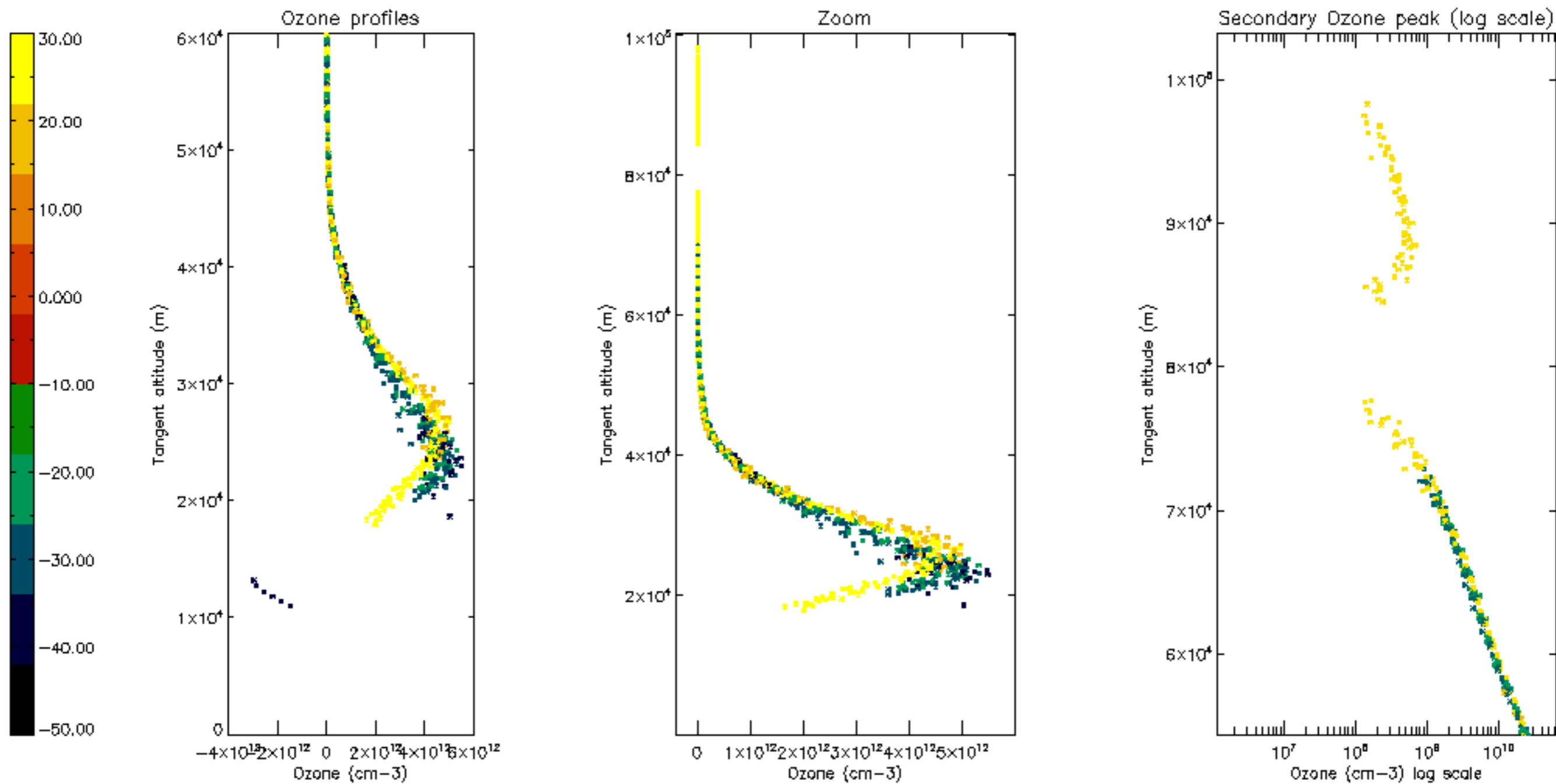


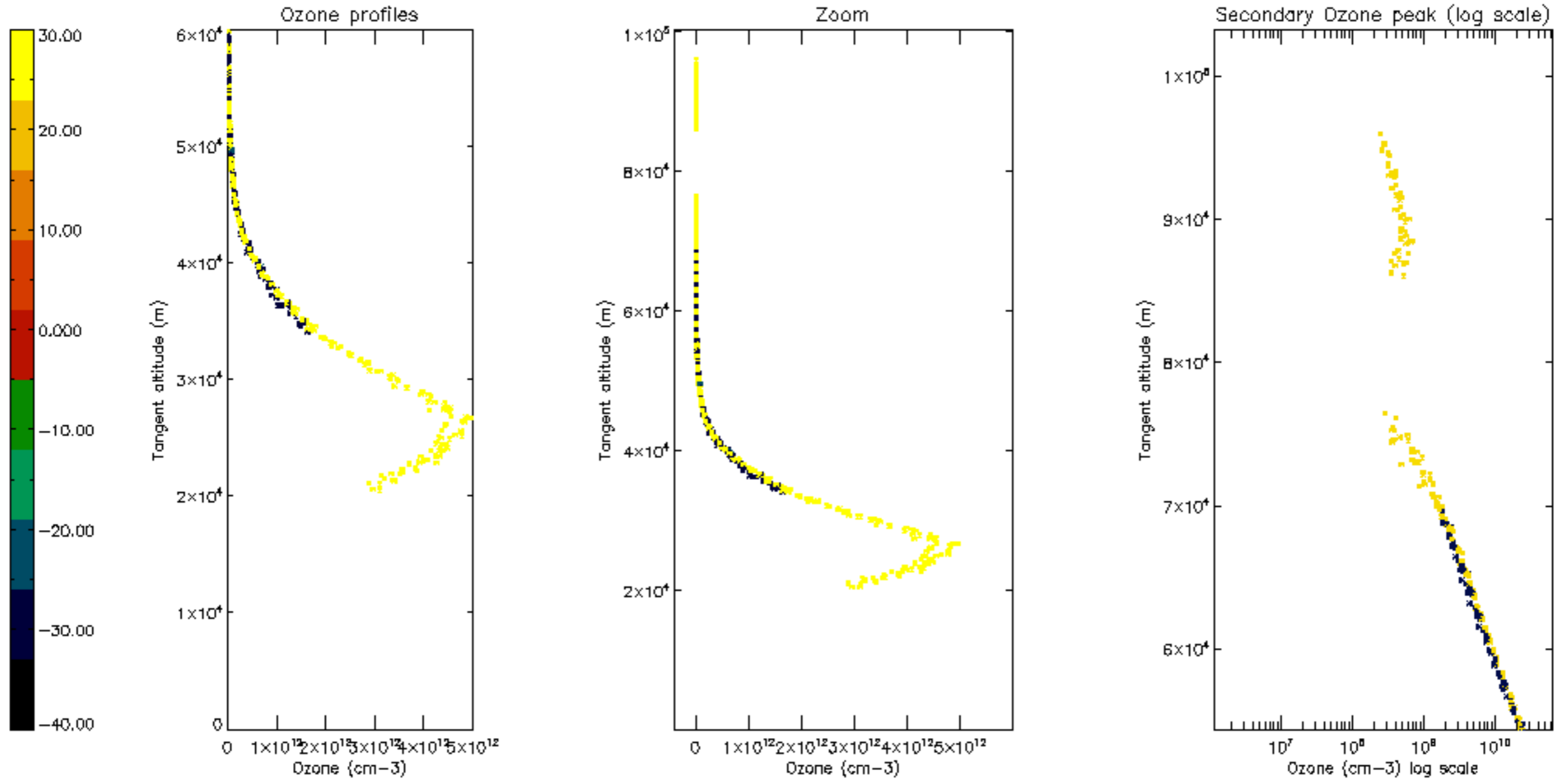
Percentage of saturation errors per profile

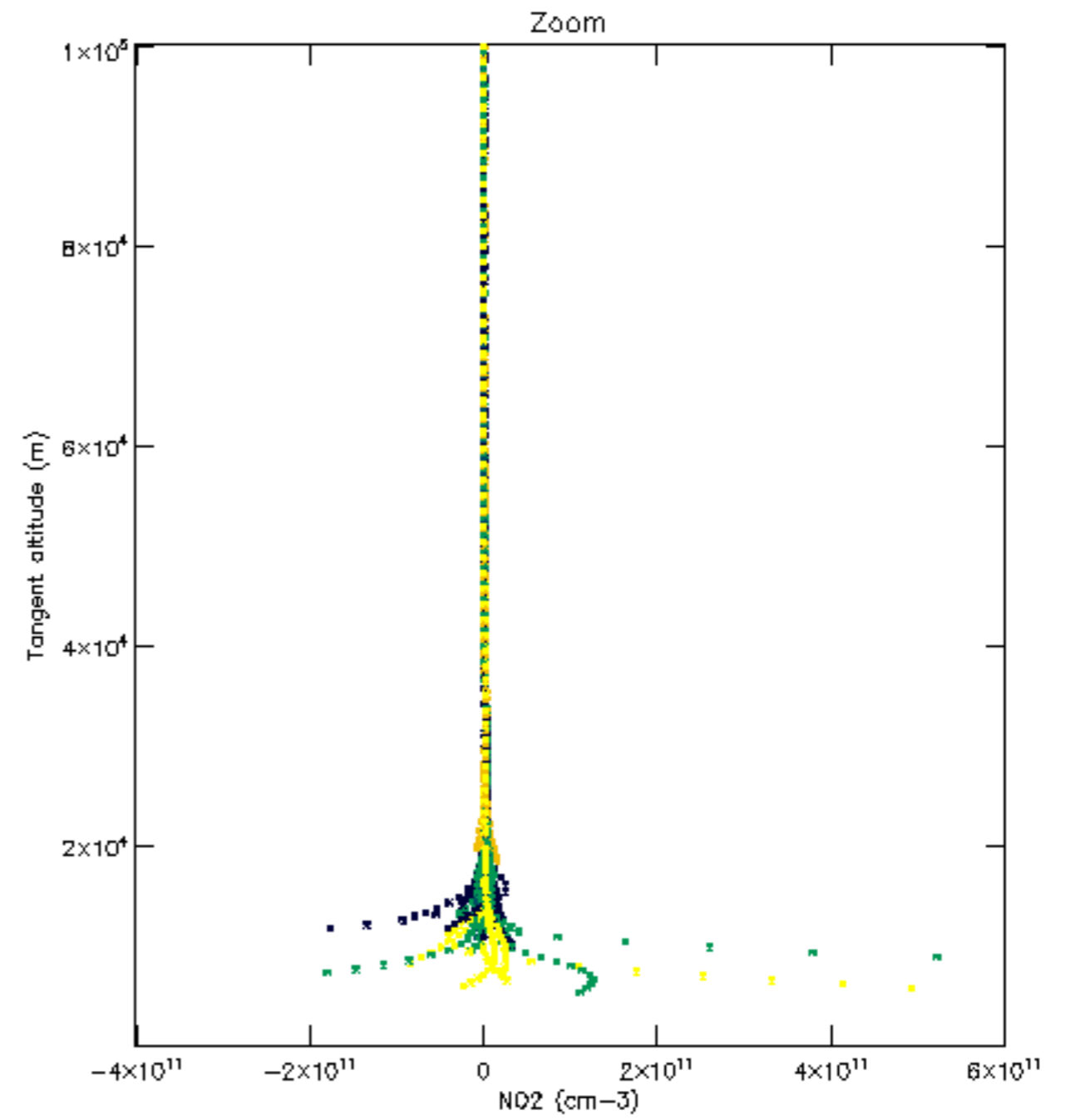
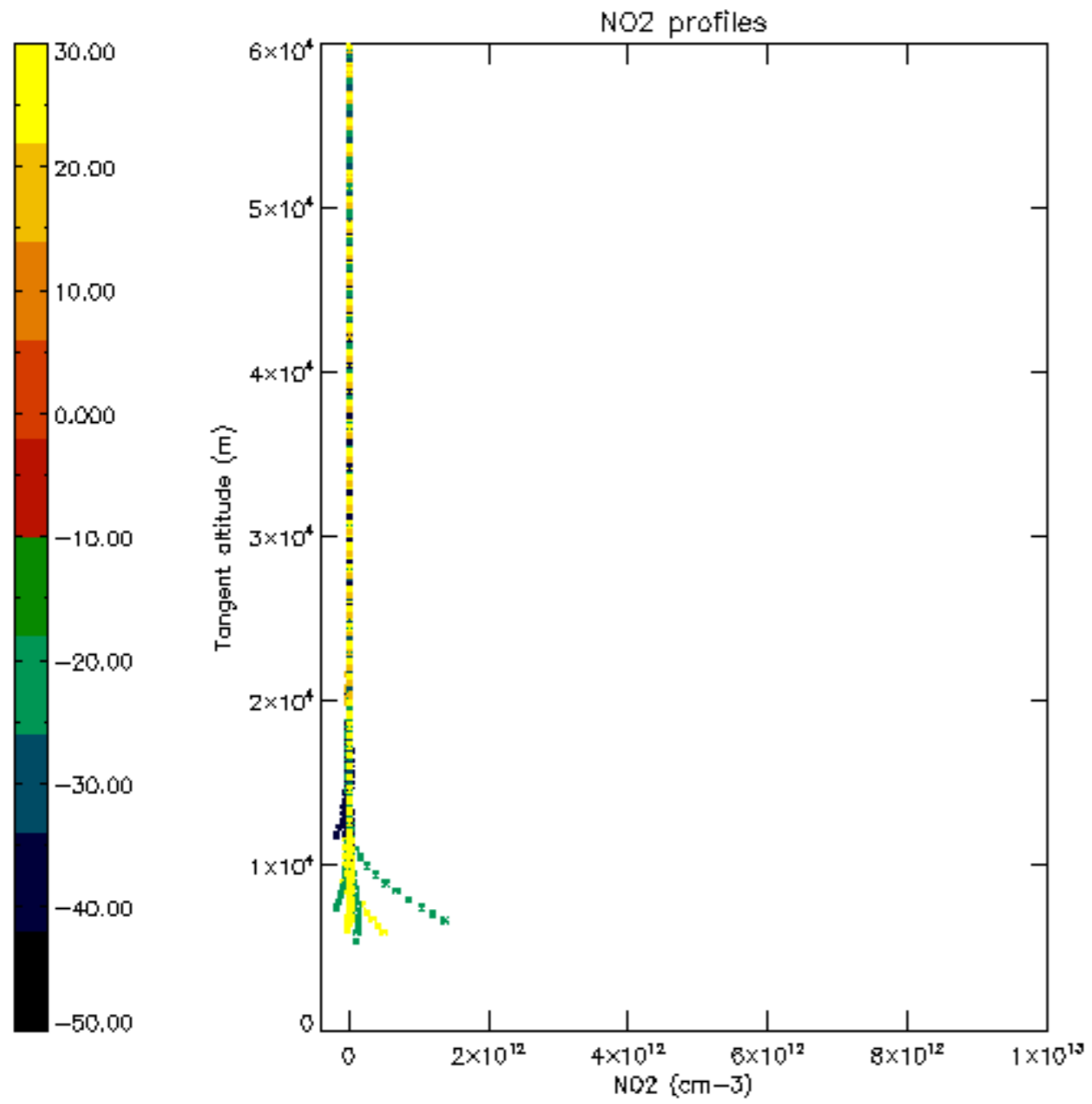


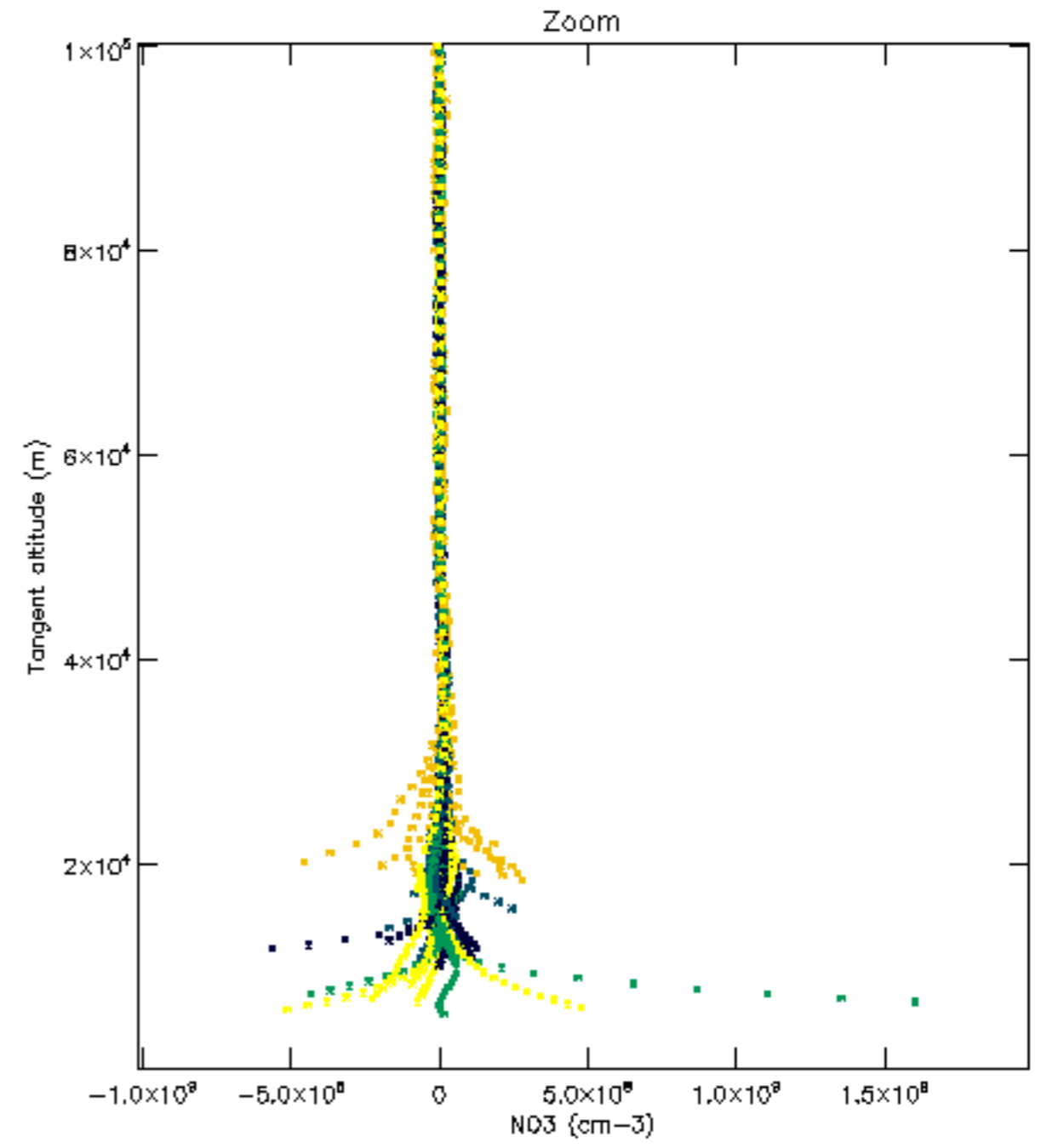
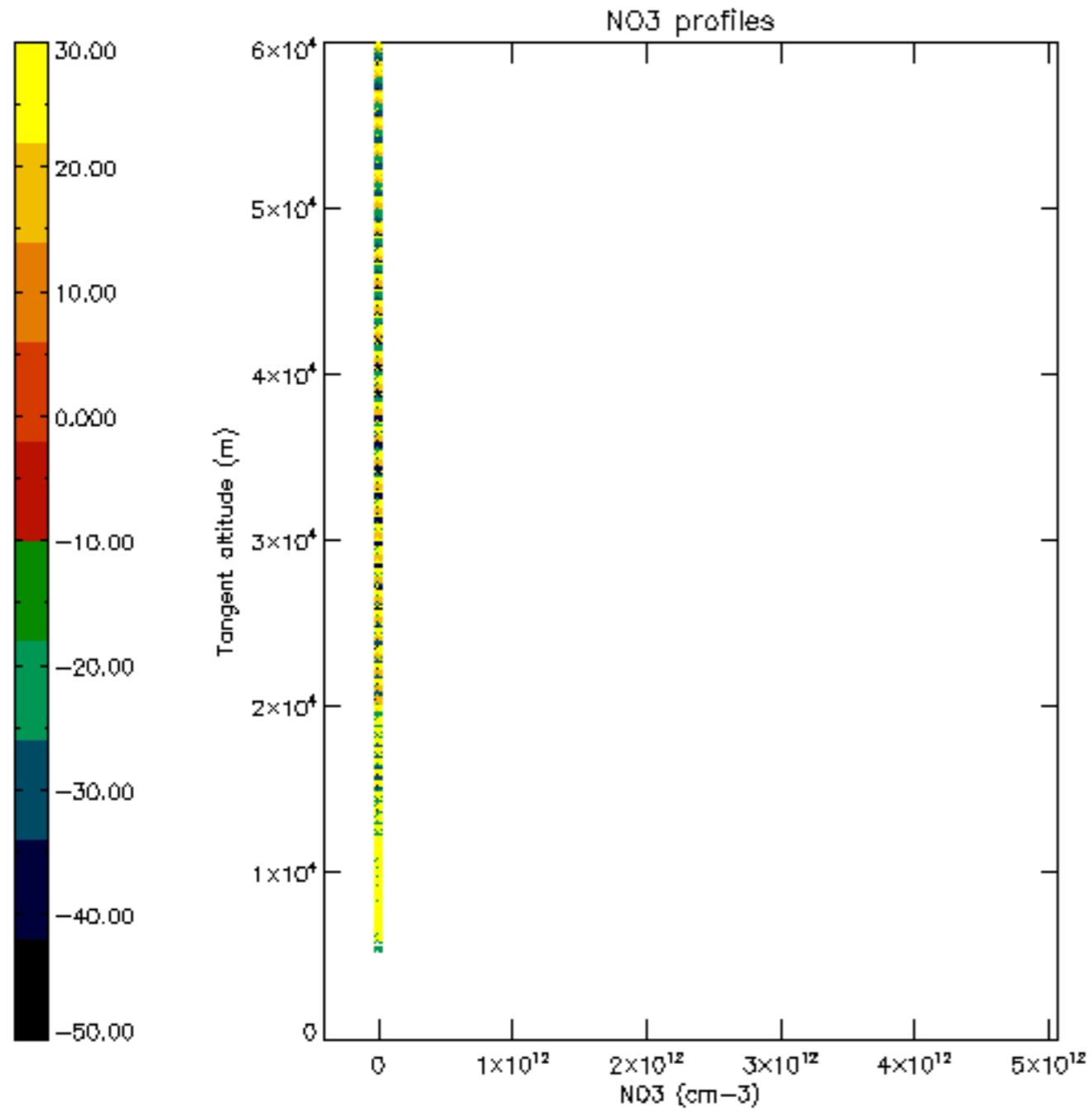


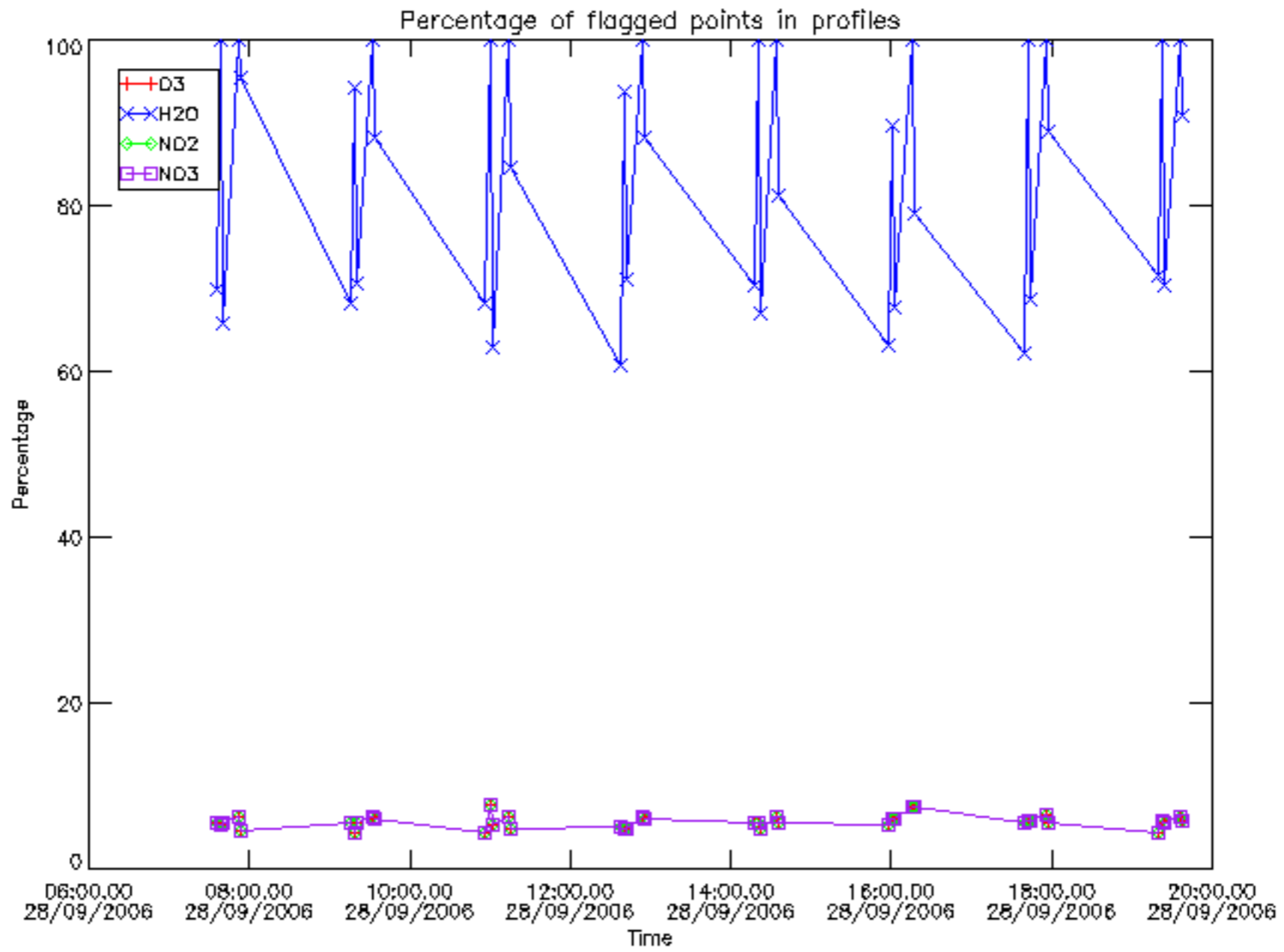




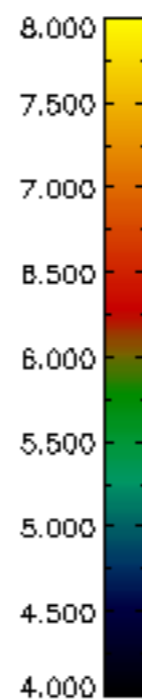
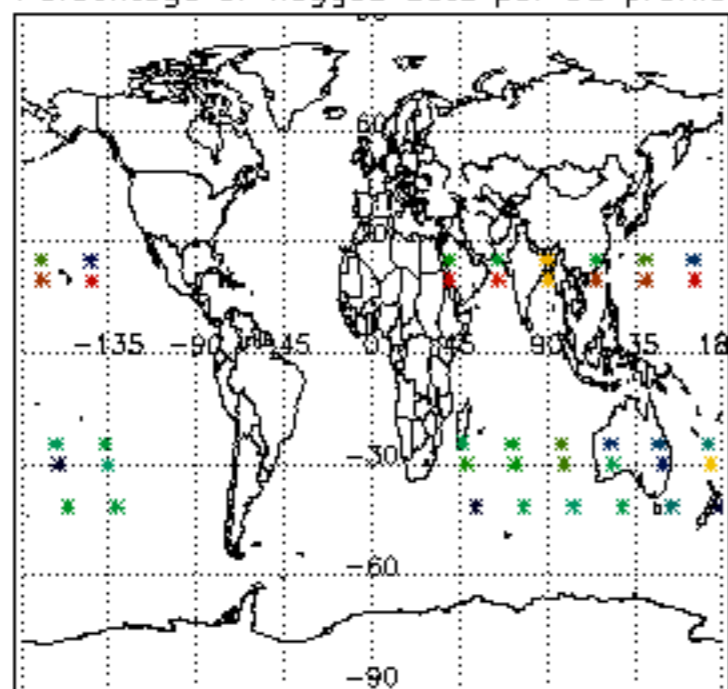




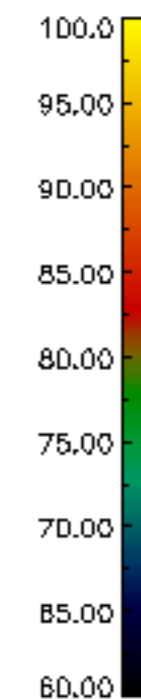
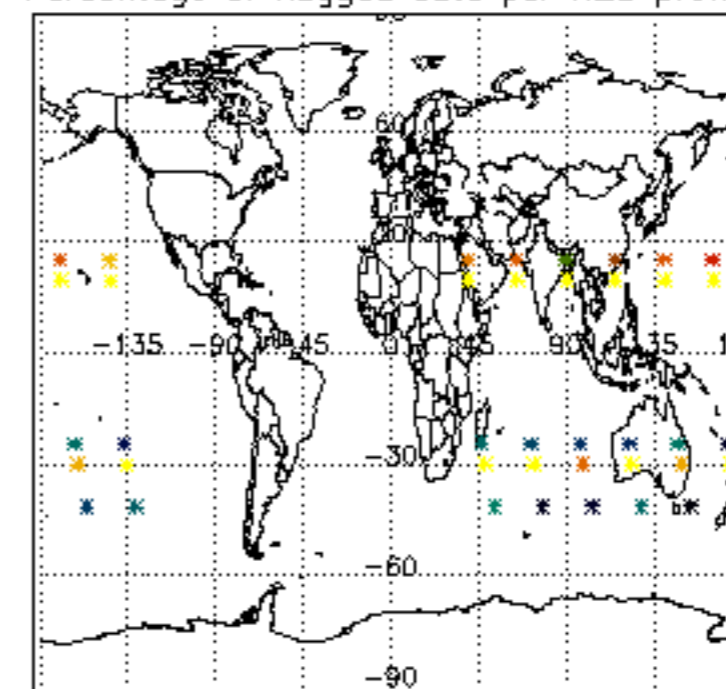




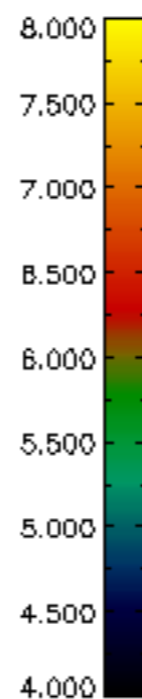
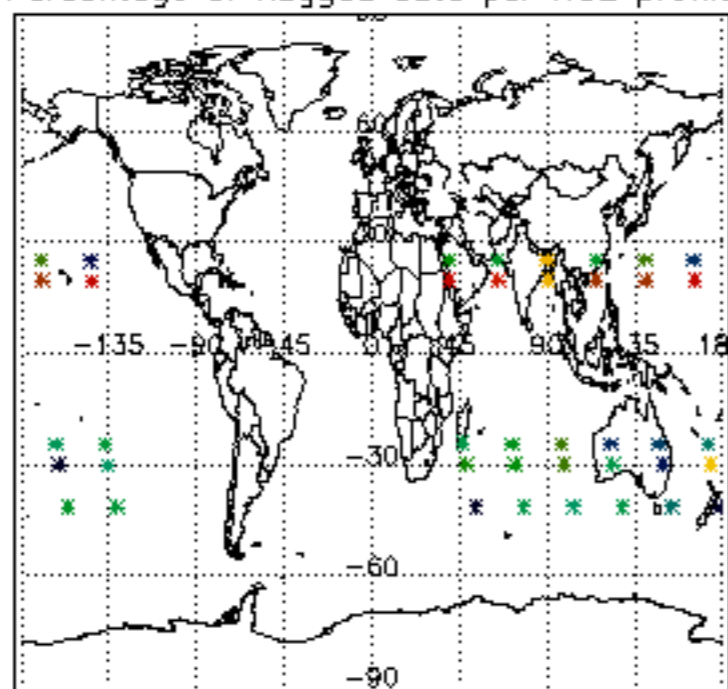
Percentage of flagged data per D3 profile



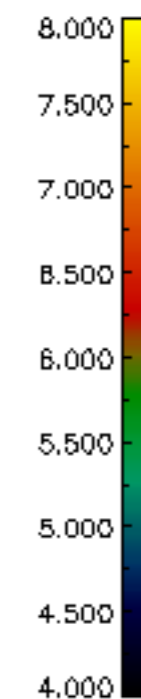
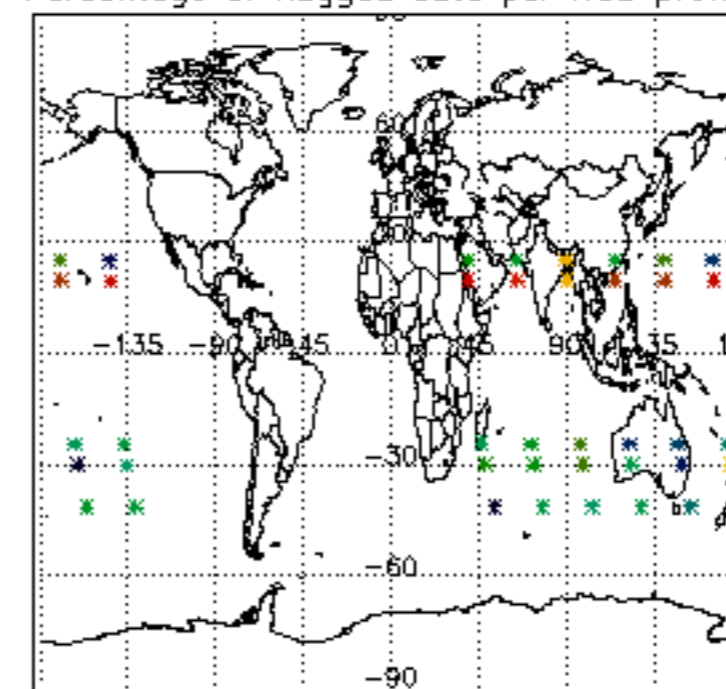
Percentage of flagged data per H2O profile

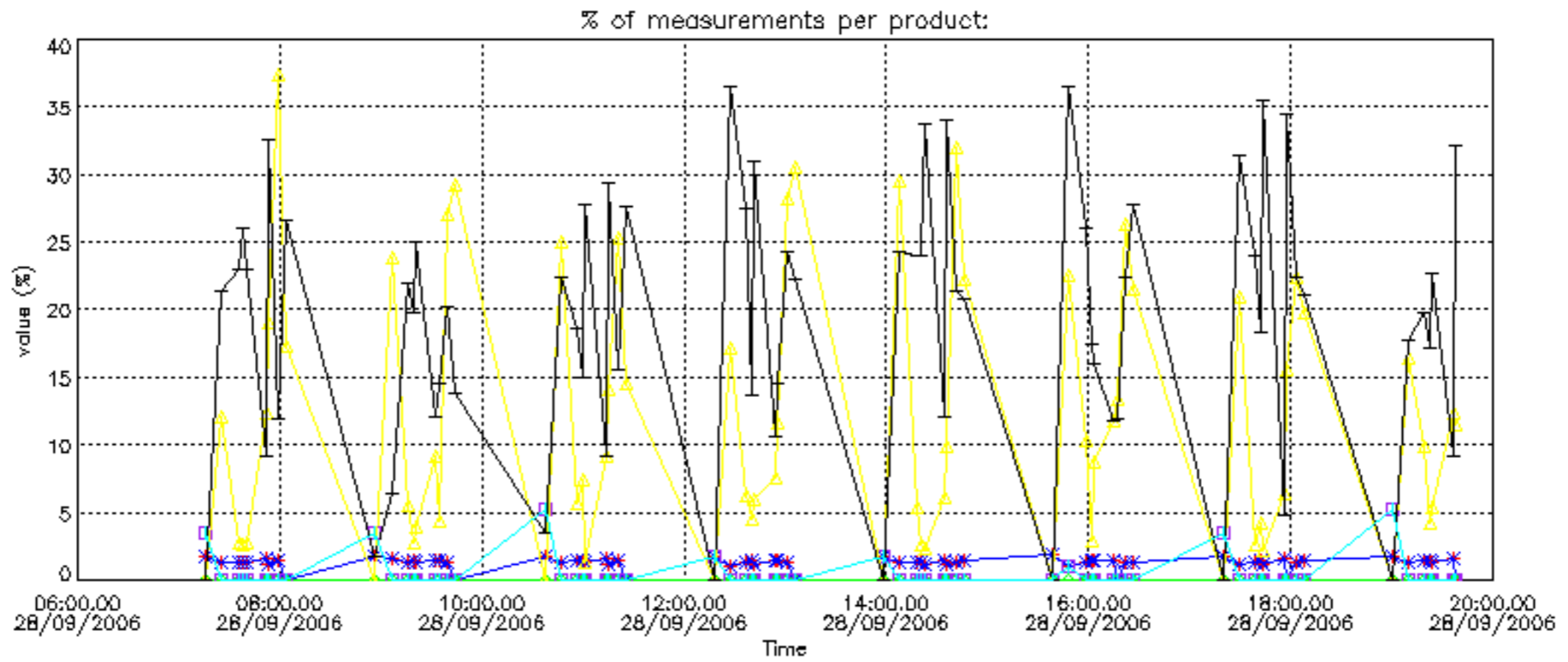


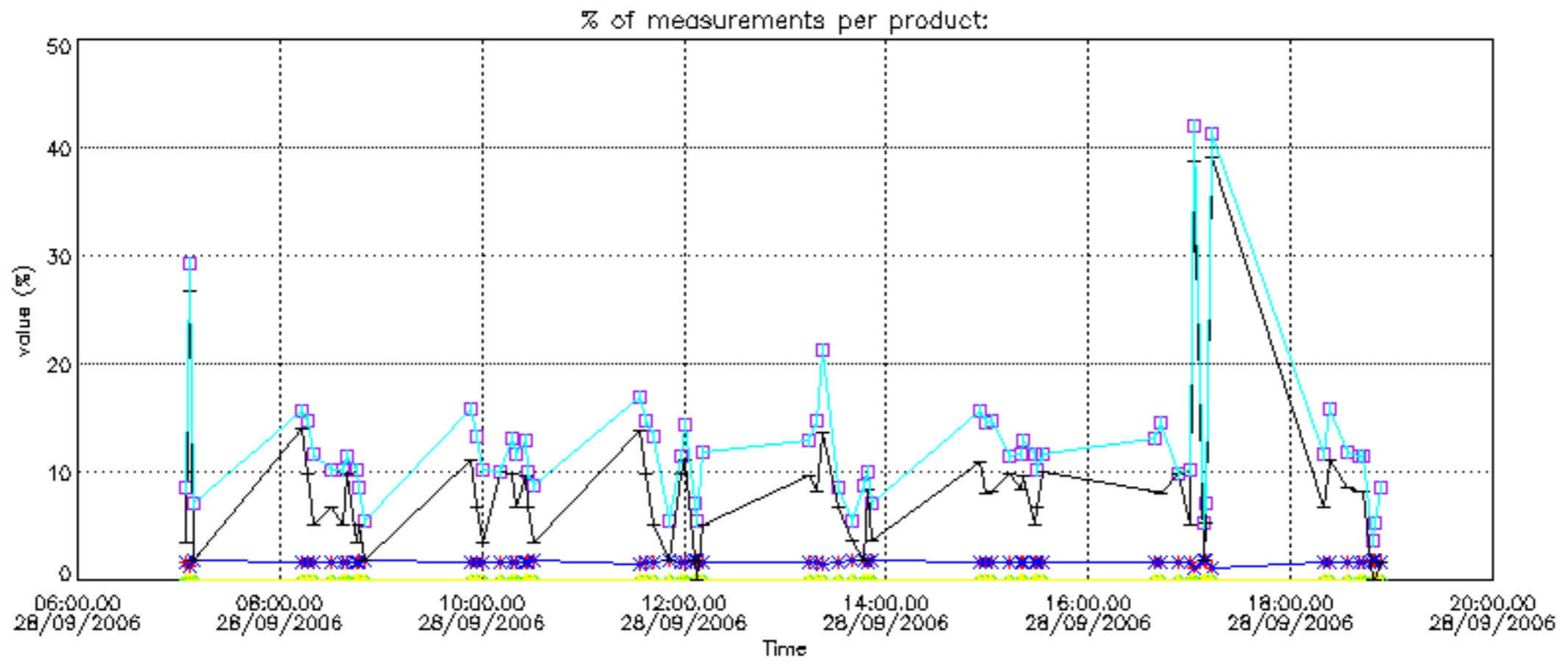
Percentage of flagged data per NO2 profile



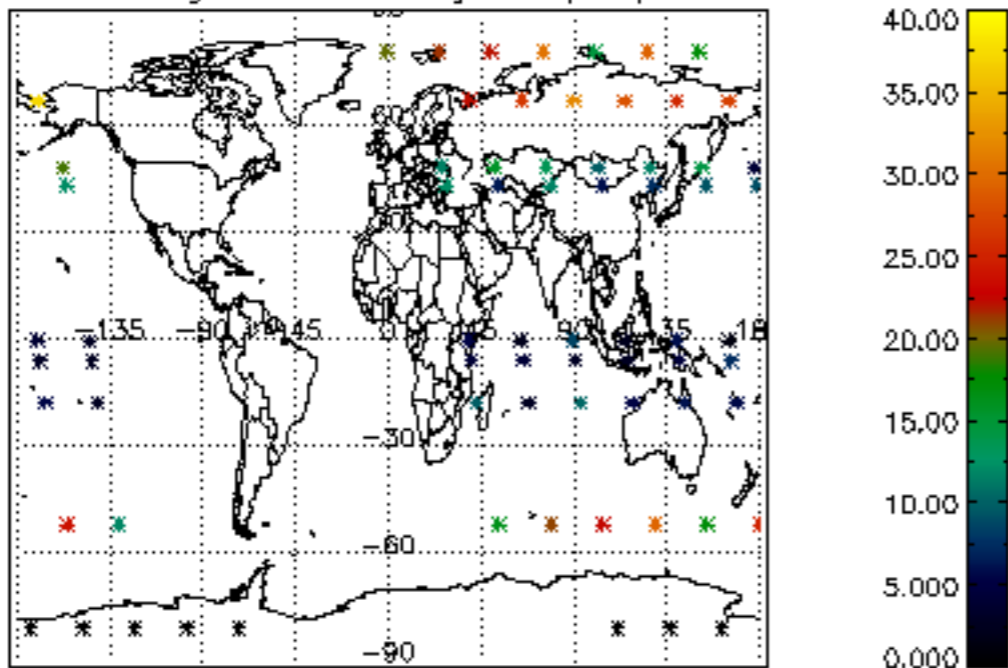
Percentage of flagged data per NO3 profile



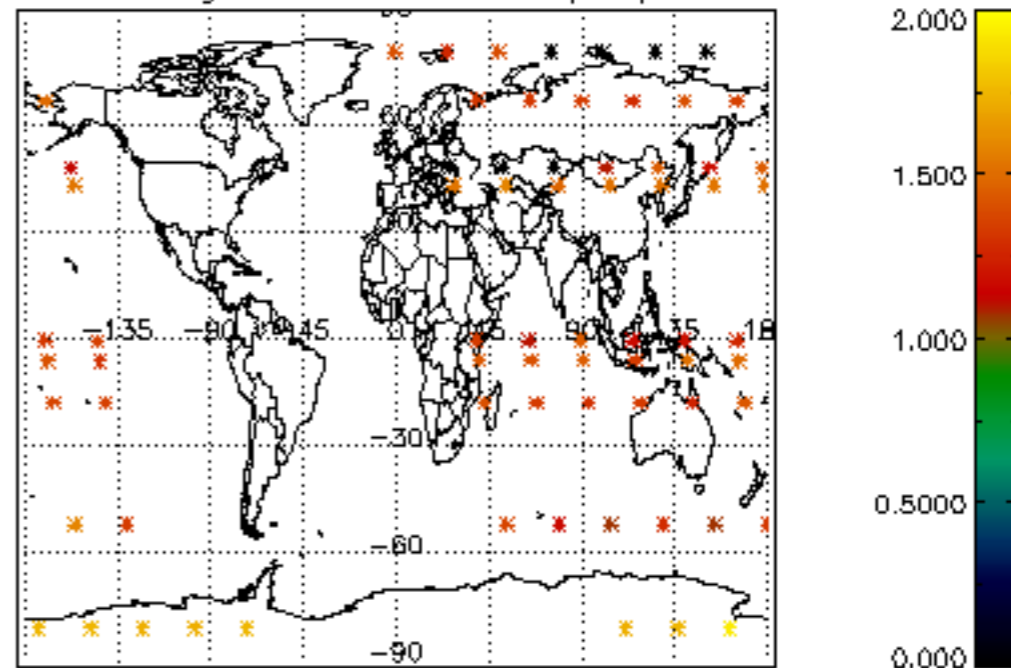




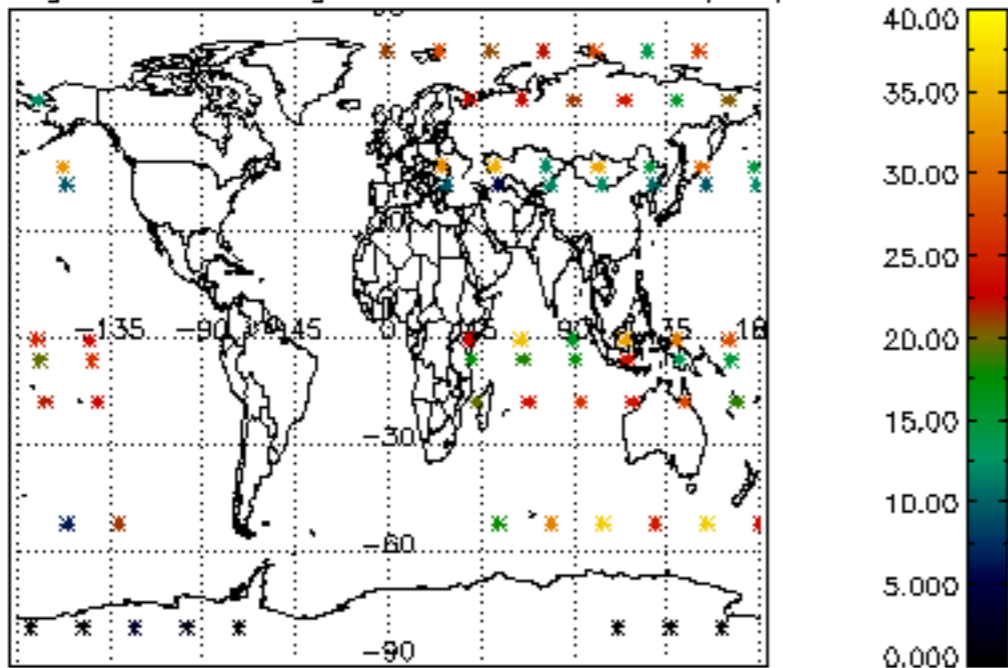
Percentage of cosmic ray hits per profile



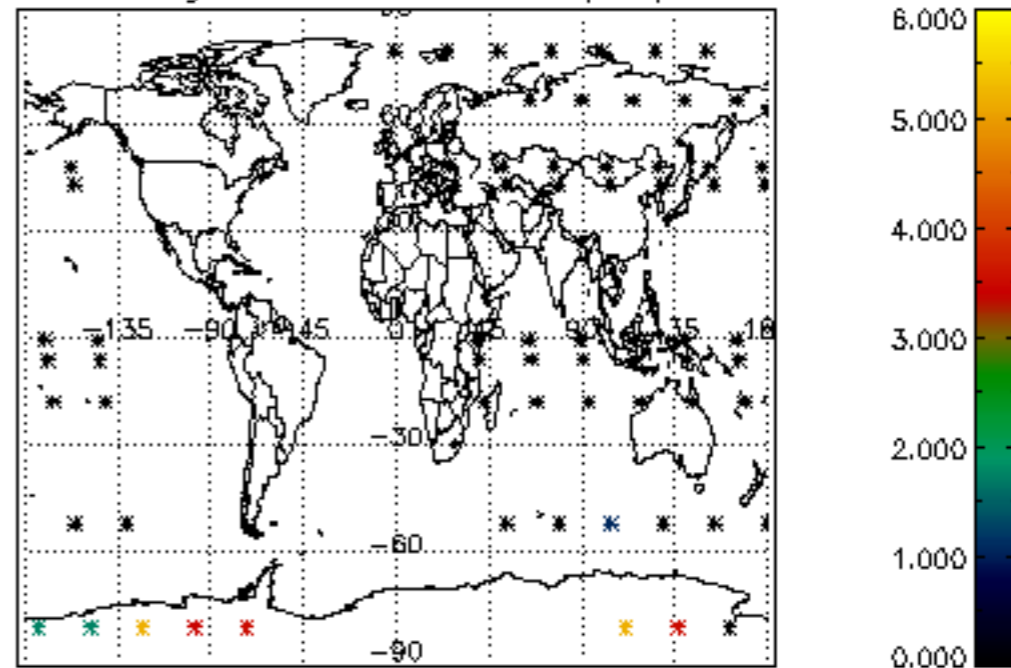
Percentage of datation errors per profile



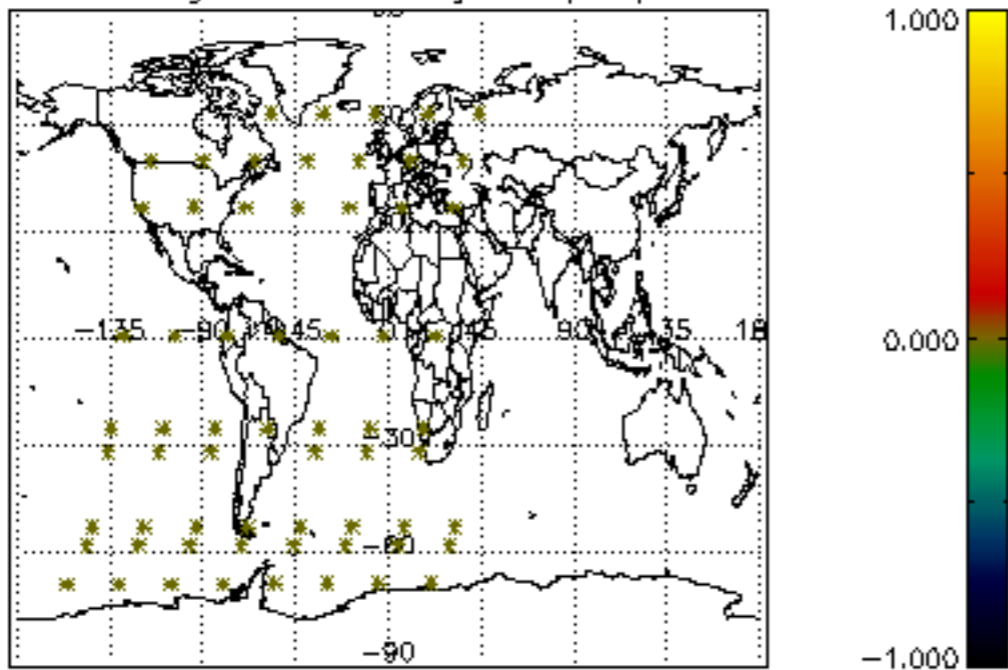
Percentage of star falling outside central band per profile



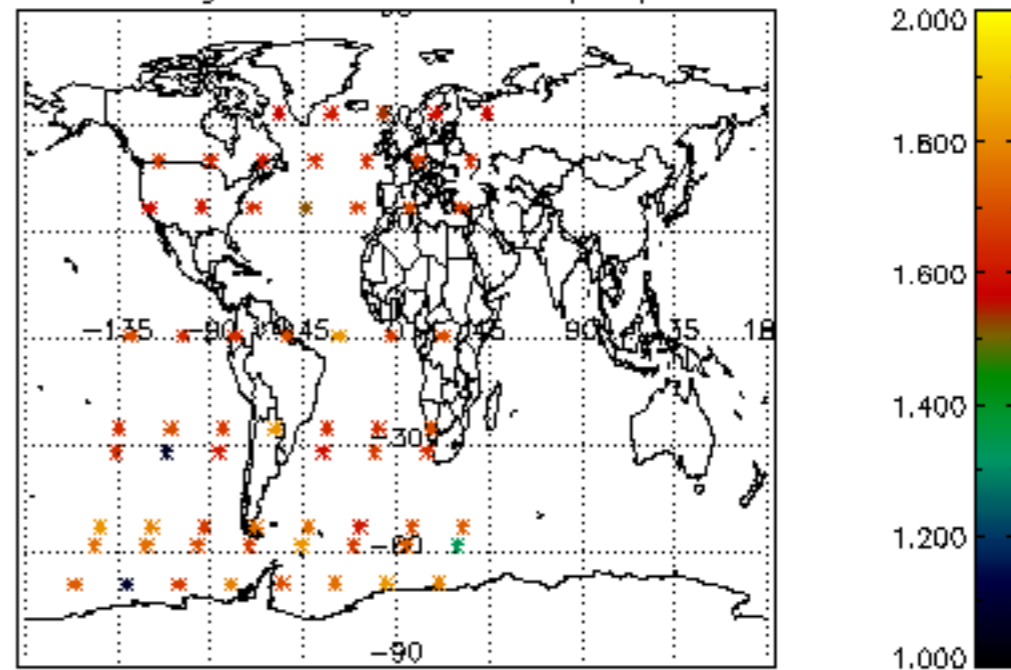
Percentage of saturation errors per profile



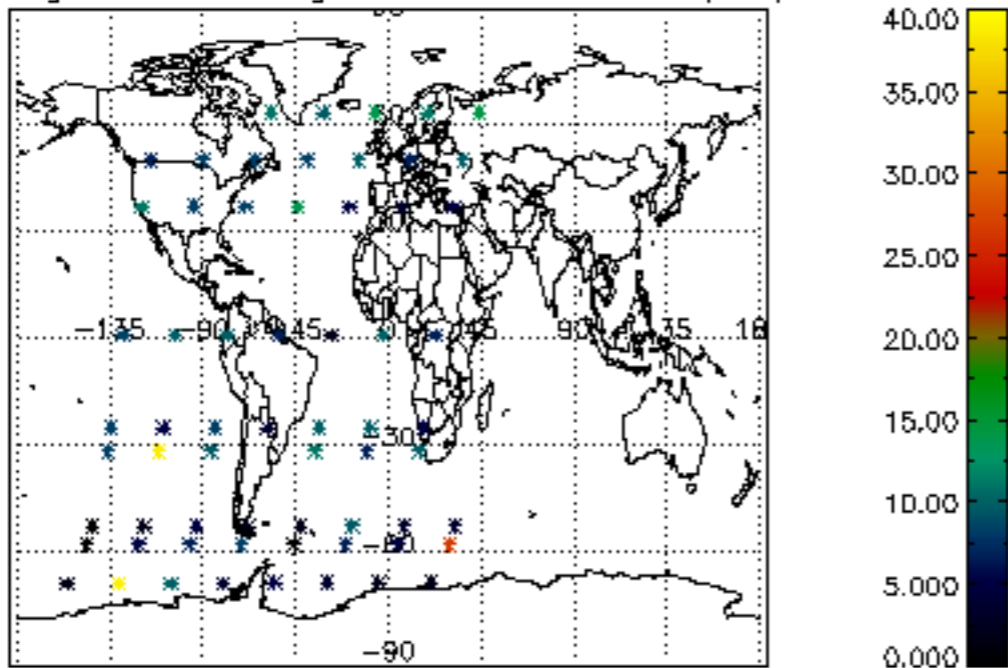
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

