

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	18APR2013 11:01:42
Data source version	GOMOS/6.01
Start time of products	18-09-2005 (18SEP2005 00:00:00)
Stop time of products	19-09-2005 (19SEP2005 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	236
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

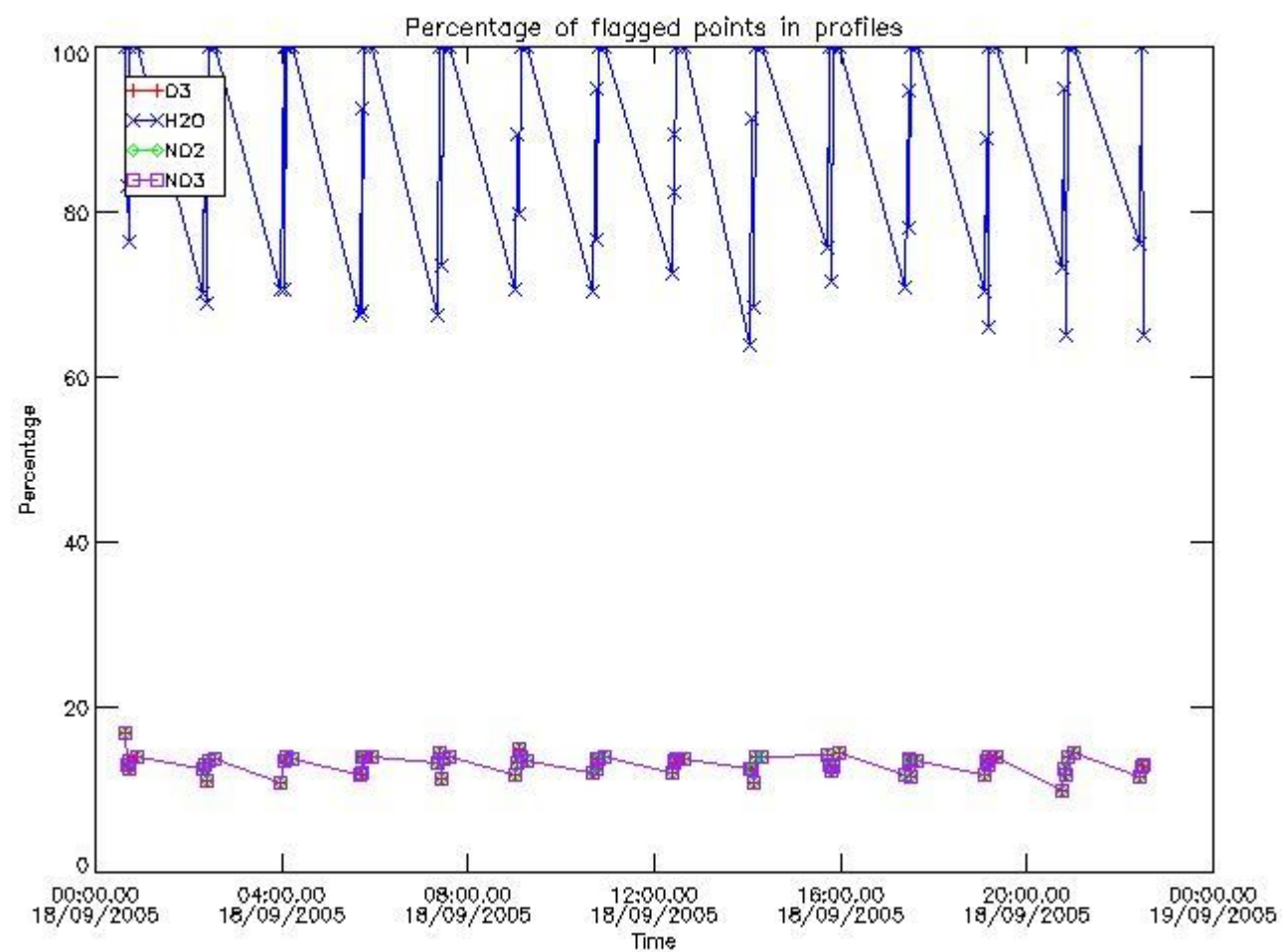
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20050918_003743_000000422040_00474_18564_6857.N1	18-SEP-2005 00:37:43	Dark	42.000	65	Lam Vel	2.2040	4400.0	84	18564	No
2	GOM_NL__2PRFIN20050918_004101_000000392040_00474_18564_6858.N1	18-SEP-2005 00:41:01	Dark	39.000	46	Del Vel	1.9540	10600.	78	18564	No
3	GOM_NL__2PRFIN20050918_004233_000000412040_00474_18564_6859.N1	18-SEP-2005 00:42:33	Dark	40.500	41	Eps Car	1.8600	4100.0	81	18564	No
4	GOM_NL__2PRFIN20050918_004450_000000382040_00475_18565_6857.N1	18-SEP-2005 00:44:50	Dark	37.500	29	Bet Car	1.6720	10200.	75	18565	No
5	GOM_NL__2PRFIN20050918_005307_000000372040_00475_18565_6858.N1	18-SEP-2005 00:53:07	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	18565	No
6	GOM_NL__2PRFIN20050918_005838_000000412040_00475_18565_6859.N1	18-SEP-2005 00:58:38	Straylight	41.000	148	Alp Tuc	2.8780	4100.0	82	18565	No
7	GOM_NL__2PRFIN20050918_010223_000000392040_00475_18565_6860.N1	18-SEP-2005 01:02:23	Straylight	39.000	31	Alp Gru	1.7340	15200.	78	18565	No
8	GOM_NL__2PRFIN20050918_010510_000000372040_00475_18565_6861.N1	18-SEP-2005 01:05:10	Straylight	37.000	172	Gam Gru	3.0030	13100.	74	18565	No
9	GOM_NL__2PRFIN20050918_011108_000000402040_00475_18565_6862.N1	18-SEP-2005 01:11:08	Tw_i_and_stray	39.500	142	49Del Cap	2.8500	8900.0	79	18565	No
10	GOM_NL__2PRFIN20050918_011519_000000382040_00475_18565_6863.N1	18-SEP-2005 01:15:19	Bright	37.500	162	34Alp Aqr	2.9440	5350.0	75	18565	No
11	GOM_NL__2PRFIN20050918_011820_000000372040_00475_18565_6864.N1	18-SEP-2005 01:18:20	Bright	36.500	61	8Eps Peg	2.1000	3900.0	73	18565	No
12	GOM_NL__2PRFIN20050918_012544_000000362040_00475_18565_6865.N1	18-SEP-2005 01:25:44	Bright	36.000	92	53Eps Cyg	2.5000	4500.0	72	18565	No
13	GOM_NL__2PRFIN20050918_012753_000000352040_00475_18565_6866.N1	18-SEP-2005 01:27:53	Bright	34.500	66	37Gam Cyg	2.2080	5900.0	69	18565	No
14	GOM_NL__2PRFIN20050918_013304_000000352040_00475_18565_6867.N1	18-SEP-2005 01:33:04	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	18565	No
15	GOM_NL__2PRFIN20050918_014148_000000362040_00475_18565_6868.N1	18-SEP-2005 01:41:48	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	18565	No
16	GOM_NL__2PRFIN20050918_014808_000000362040_00475_18565_6869.N1	18-SEP-2005 01:48:08	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	18565	No
17	GOM_NL__2PRFIN20050918_014935_000000522040_00475_18565_6870.N1	18-SEP-2005 01:49:35	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	18565	No
18	GOM_NL__2PRFIN20050918_015241_000000512040_00475_18565_6871.N1	18-SEP-2005 01:52:41	Bright	50.500	174	52Psi UMa	3.0040	4400.0	101	18565	No
19	GOM_NL__2PRFIN20050918_021819_000000412040_00475_18565_6872.N1	18-SEP-2005 02:18:19	Dark	40.500	65	Lam Vel	2.2040	4400.0	81	18565	No
20	GOM_NL__2PRFIN20050918_022137_000000392040_00475_18565_6873.N1	18-SEP-2005 02:21:37	Dark	39.000	46	Del Vel	1.9540	10600.	78	18565	No
21	GOM_NL__2PRFIN20050918_022309_000000462040_00475_18565_6874.N1	18-SEP-2005 02:23:09	Dark	45.500	41	Eps Car	1.8600	4100.0	91	18565	No
22	GOM_NL__2PRFIN20050918_022526_000000382040_00476_18566_6857.N1	18-SEP-2005 02:25:26	Dark	37.500	29	Bet Car	1.6720	10200.	75	18566	No
23	GOM_NL__2PRFIN20050918_023343_000000372040_00476_18566_6858.N1	18-SEP-2005 02:33:43	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	18566	No
24	GOM_NL__2PRFIN20050918_023915_000000382040_00476_18566_6859.N1	18-SEP-2005 02:39:15	Straylight	38.000	148	Alp Tuc	2.8780	4100.0	76	18566	No
25	GOM_NL__2PRFIN20050918_024259_000000402040_00476_18566_6860.N1	18-SEP-2005 02:42:59	Straylight	39.500	31	Alp Gru	1.7340	15200.	79	18566	No
26	GOM_NL__2PRFIN20050918_024546_000000372040_00476_18566_6861.N1	18-SEP-2005 02:45:46	Straylight	37.000	172	Gam Gru	3.0030	13100.	74	18566	No
27	GOM_NL__2PRFIN20050918_025144_000000382040_00476_18566_6862.N1	18-SEP-2005 02:51:44	Tw_i_and_stray	38.000	142	49Del Cap	2.8500	8900.0	76	18566	No
28	GOM_NL__2PRFIN20050918_025556_000000372040_00476_18566_6863.N1	18-SEP-2005 02:55:56	Bright	37.000	162	34Alp Aqr	2.9440	5350.0	74	18566	No
29	GOM_NL__2PRFIN20050918_025857_000000372040_00476_18566_6864.N1	18-SEP-2005 02:58:57	Bright	37.000	61	8Eps Peg	2.1000	3900.0	74	18566	No
30	GOM_NL__2PRFIN20050918_030620_000000352040_00476_18566_6865.N1	18-SEP-2005 03:06:20	Bright	34.500	92	53Eps Cyg	2.5000	4500.0	69	18566	No
31	GOM_NL__2PRFIN20050918_030829_000000372040_00476_18566_6866.N1	18-SEP-2005 03:08:29	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	18566	No
32	GOM_NL__2PRFIN20050918_031340_000000352040_00476_18566_6867.N1	18-SEP-2005 03:13:40	Bright	34.500	89	5Alp Cep	2.4510	8000.0	69	18566	No
33	GOM_NL__2PRFIN20050918_032224_000000372040_00476_18566_6868.N1	18-SEP-2005 03:22:24	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	18566	No
34	GOM_NL__2PRFIN20050918_032844_000000362040_00476_18566_6869.N1	18-SEP-2005 03:28:44	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	18566	No
35	GOM_NL__2PRFIN20050918_033011_000000352040_00476_18566_6870.N1	18-SEP-2005 03:30:11	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	18566	No
36	GOM_NL__2PRFIN20050918_033317_000000522040_00476_18566_6871.N1	18-SEP-2005 03:33:17	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	18566	No
37	GOM_NL__2PRFIN20050918_035855_000000472040_00476_18566_6872.N1	18-SEP-2005 03:58:55	Dark	46.500	65	Lam Vel	2.2040	4400.0	93	18566	No
38	GOM_NL__2PRFIN20050918_040213_000000382040_00476_18566_6873.N1	18-SEP-2005 04:02:13	Dark	37.500	46	Del Vel	1.9540	10600.	75	18566	No
39	GOM_NL__2PRFIN20050918_040346_000000382040_00476_18566_6874.N1	18-SEP-2005 04:03:46	Dark	38.000	41	Eps Car	1.8600	4100.0	76	18566	No
40	GOM_NL__2PRFIN20050918_040602_000000372040_00477_18567_6857.N1	18-SEP-2005 04:06:02	Dark	36.500	29	Bet Car	1.6720	10200.	73	18567	No
41	GOM_NL__2PRFIN20050918_041420_000000372040_00477_18567_6858.N1	18-SEP-2005 04:14:20	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	18567	No
42	GOM_NL__2PRFIN20050918_041951_000000412040_00477_18567_6859.N1	18-SEP-2005 04:19:51	Straylight	41.000	148	Alp Tuc	2.8780	4100.0	82	18567	No

220	GOM_NL__2PRFIN20050918_210021_000000362040_00487_18577_6881.N1	18-SEP-2005 21:00:21	Dark	35.500	135	Bet Hyi	2.8200	5800.0	71	18577	No
221	GOM_NL__2PRFIN20050918_210551_000000422040_00487_18577_6882.N1	18-SEP-2005 21:05:51	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	18577	No
222	GOM_NL__2PRFIN20050918_210936_000000422040_00487_18577_6883.N1	18-SEP-2005 21:09:36	Straylight	42.000	31	Alp Gru	1.7340	15200.	84	18577	No
223	GOM_NL__2PRFIN20050918_211224_000000382040_00487_18577_6884.N1	18-SEP-2005 21:12:24	Straylight	38.000	172	Gam Gru	3.0030	13100.	76	18577	No
224	GOM_NL__2PRFIN20050918_211821_000000372040_00487_18577_6885.N1	18-SEP-2005 21:18:21	Twilight_stray	37.000	142	49Del Cap	2.8500	8900.0	74	18577	No
225	GOM_NL__2PRFIN20050918_212233_000000372040_00487_18577_6886.N1	18-SEP-2005 21:22:33	Bright	36.500	162	34Alp Aqr	2.9440	5350.0	73	18577	No
226	GOM_NL__2PRFIN20050918_212534_000000372040_00487_18577_6887.N1	18-SEP-2005 21:25:34	Bright	36.500	61	8Eps Peg	2.1000	3900.0	73	18577	No
227	GOM_NL__2PRFIN20050918_213259_000000392040_00487_18577_6888.N1	18-SEP-2005 21:32:59	Bright	38.500	92	53Eps Cyg	2.5000	4500.0	77	18577	No
228	GOM_NL__2PRFIN20050918_213509_000000382040_00487_18577_6889.N1	18-SEP-2005 21:35:09	Bright	37.500	66	37Gam Cyg	2.2080	5900.0	75	18577	No
229	GOM_NL__2PRFIN20050918_214017_000000322040_00487_18577_6890.N1	18-SEP-2005 21:40:17	Bright	32.000	89	5Alp Cep	2.4510	8000.0	64	18577	No
230	GOM_NL__2PRFIN20050918_214903_000000382040_00487_18577_6891.N1	18-SEP-2005 21:49:03	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	18577	No
231	GOM_NL__2PRFIN20050918_215522_000000372040_00487_18577_6892.N1	18-SEP-2005 21:55:22	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	18577	No
232	GOM_NL__2PRFIN20050918_215649_000000352040_00487_18577_6893.N1	18-SEP-2005 21:56:49	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	18577	No
233	GOM_NL__2PRFIN20050918_215955_000000342040_00487_18577_6894.N1	18-SEP-2005 21:59:55	Bright	33.500	174	52Psi UMa	3.0040	4400.0	67	18577	No
234	GOM_NL__2PRFIN20050918_222533_000000452040_00487_18577_6895.N1	18-SEP-2005 22:25:33	Dark	44.500	65	Lam Vel	2.2040	4400.0	89	18577	No
235	GOM_NL__2PRFIN20050918_222851_000000402040_00487_18577_6896.N1	18-SEP-2005 22:28:51	Dark	40.000	46	Del Vel	1.9540	10600.	80	18577	No
236	GOM_NL__2PRFIN20050918_223024_000000392040_00487_18577_6897.N1	18-SEP-2005 22:30:24	Dark	38.500	41	Eps Car	1.8600	4100.0	77	18577	No

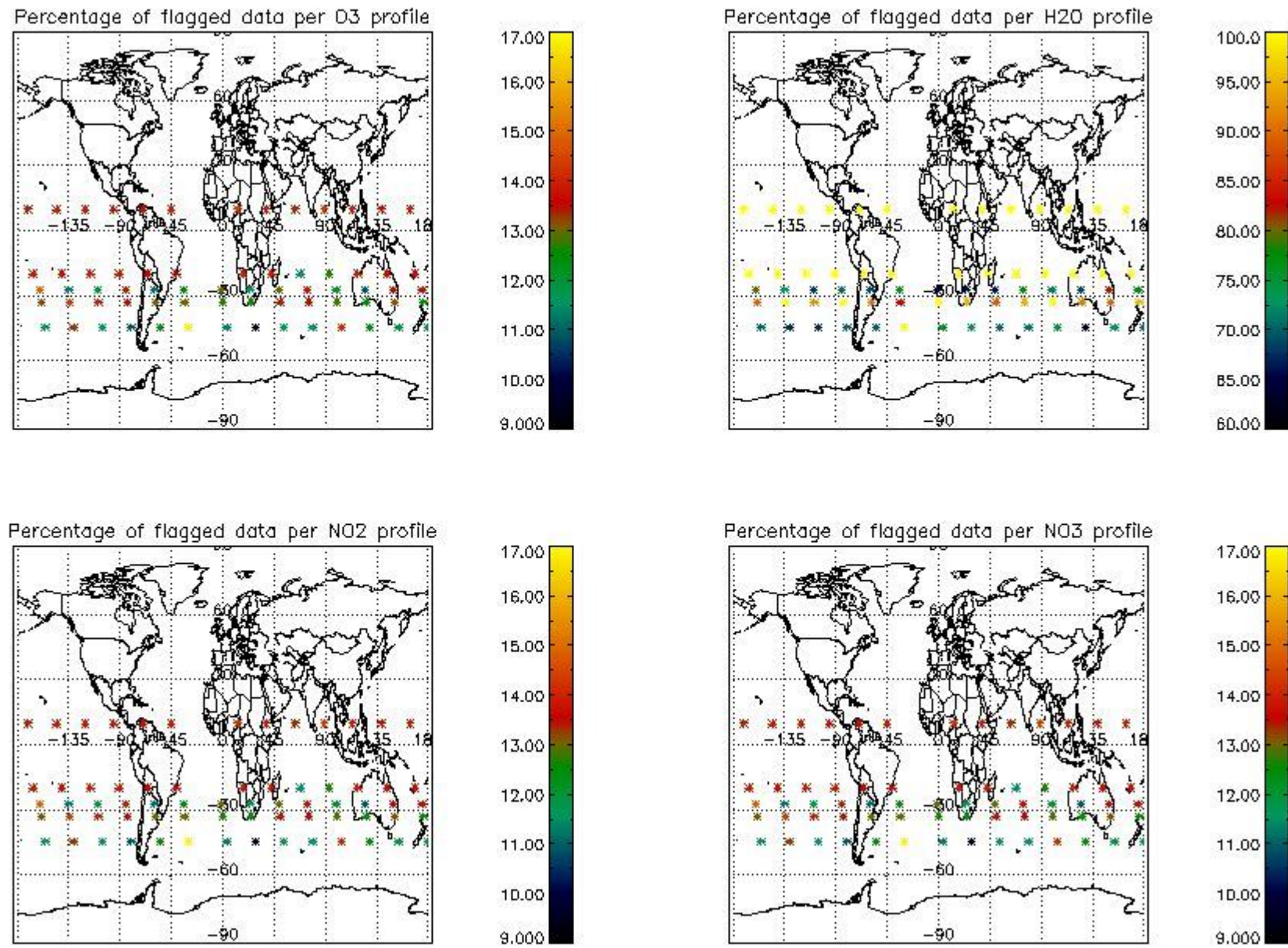
3. Quality information per product

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)

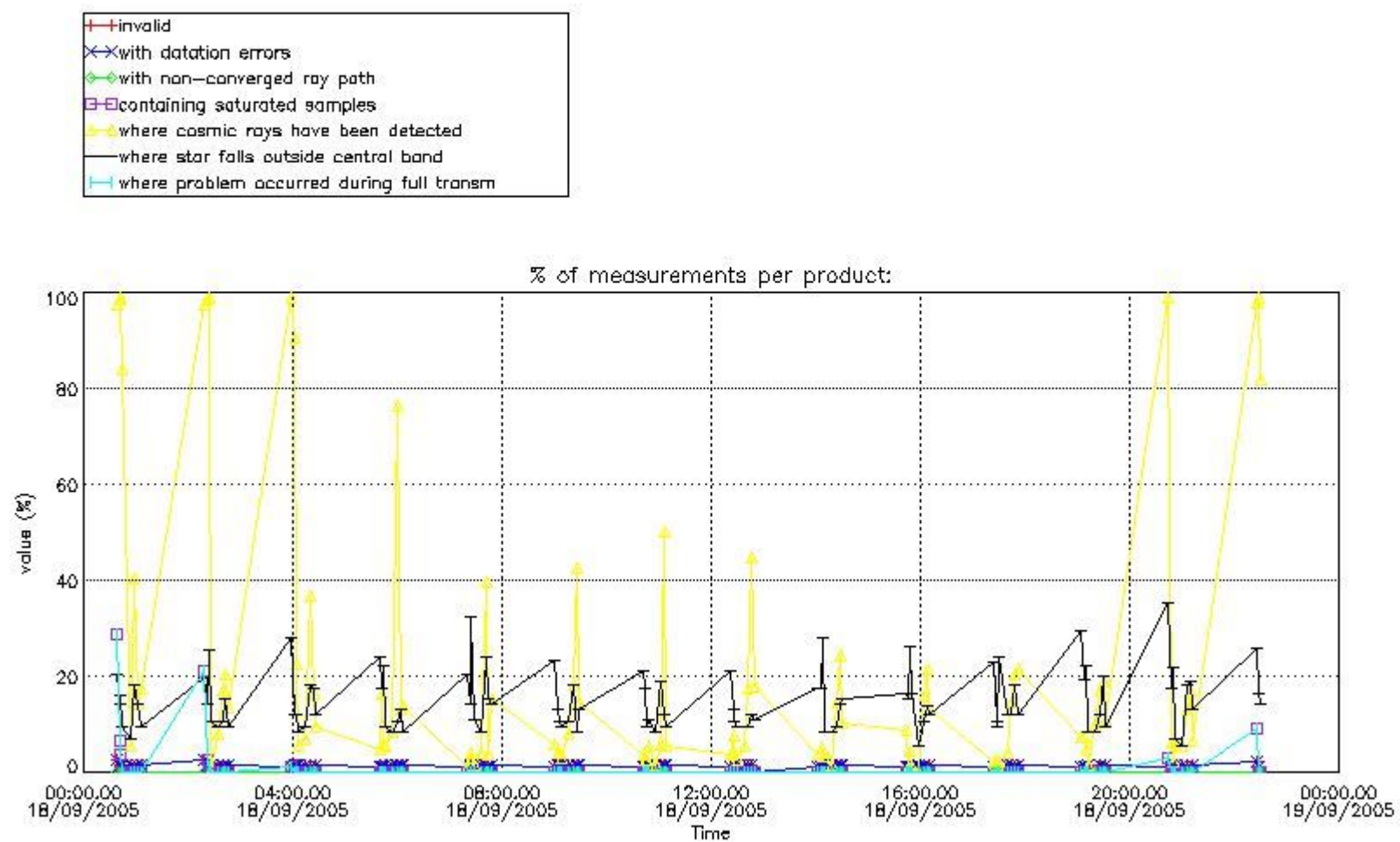


4. Level 1 quality information per product

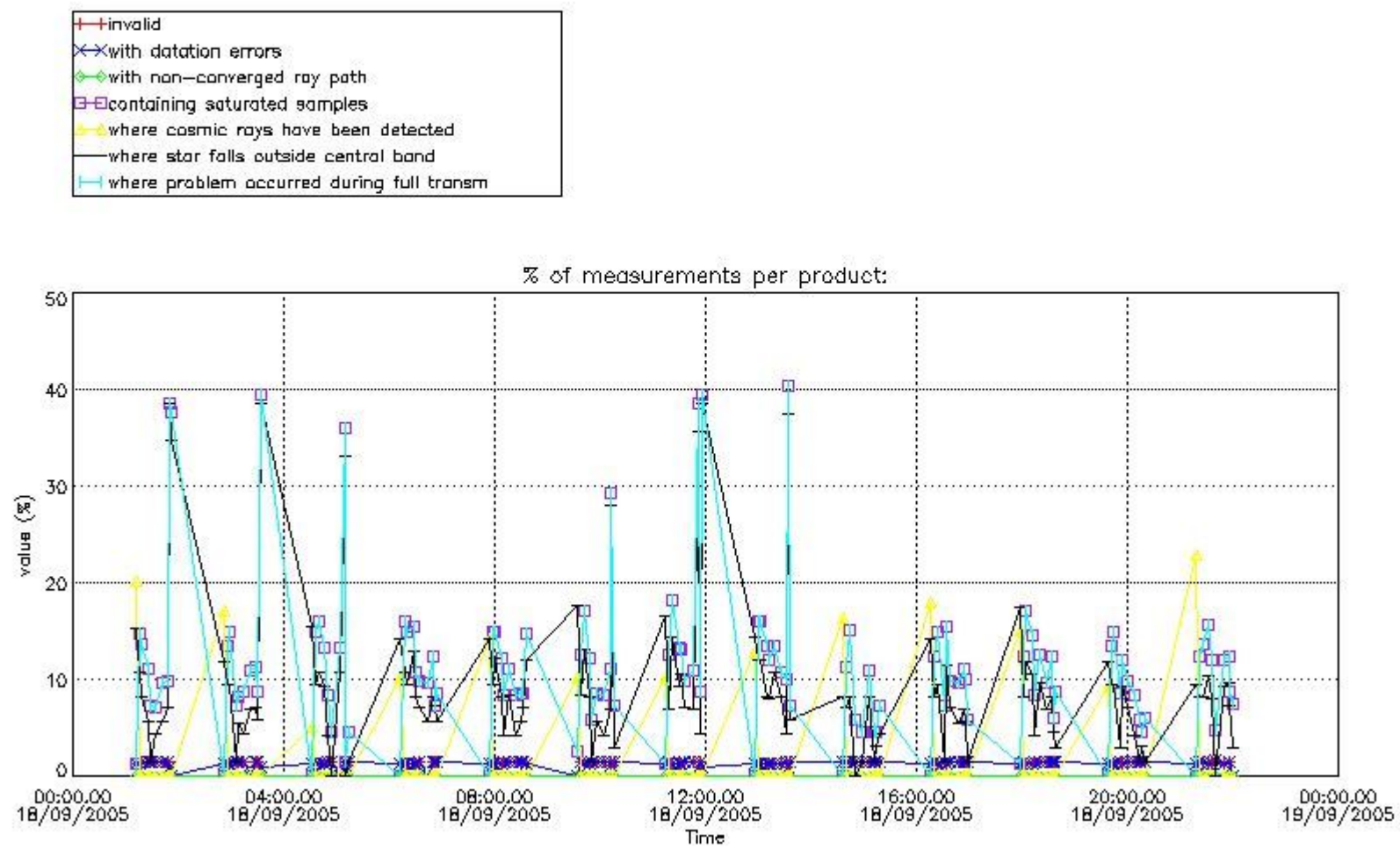
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

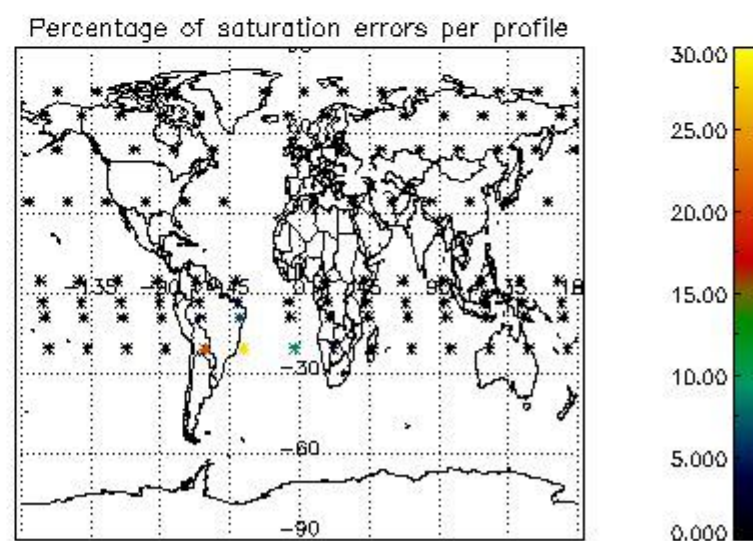
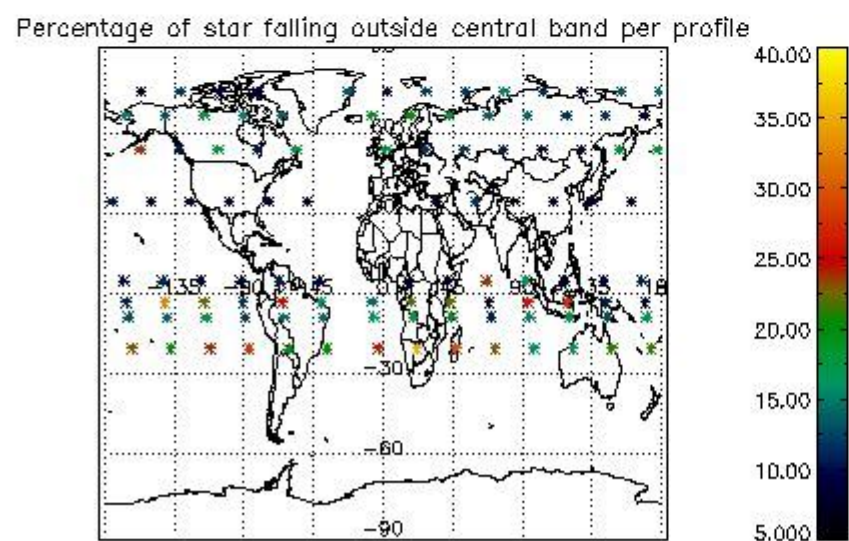
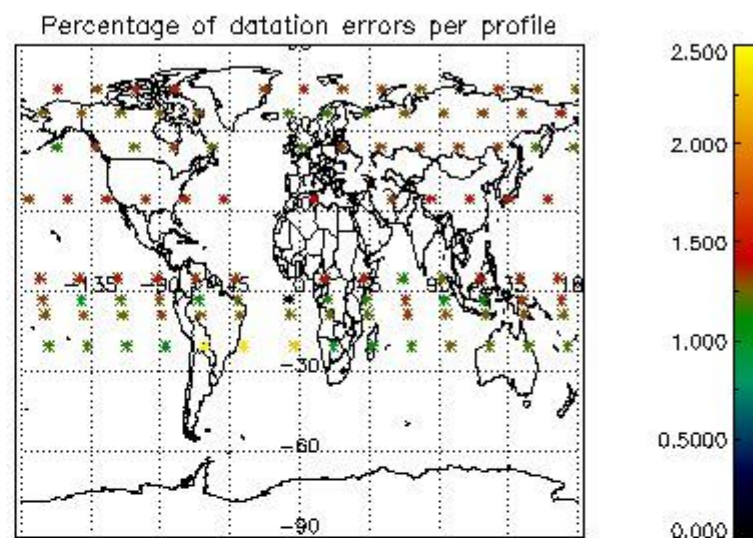
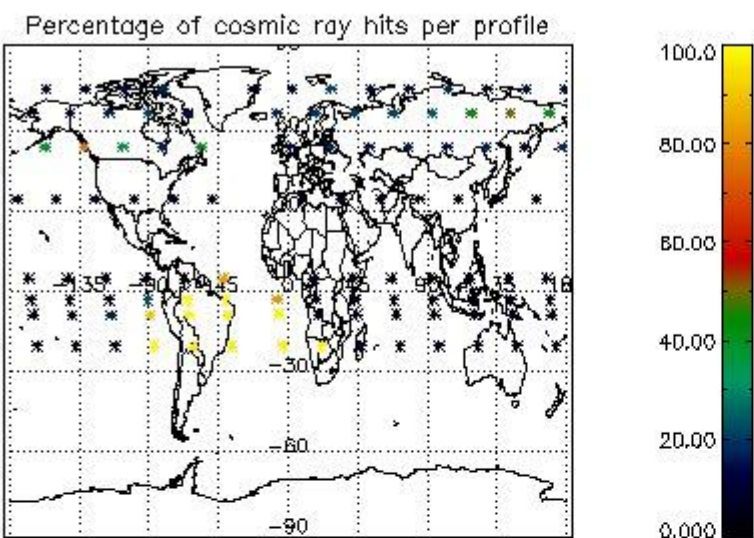


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

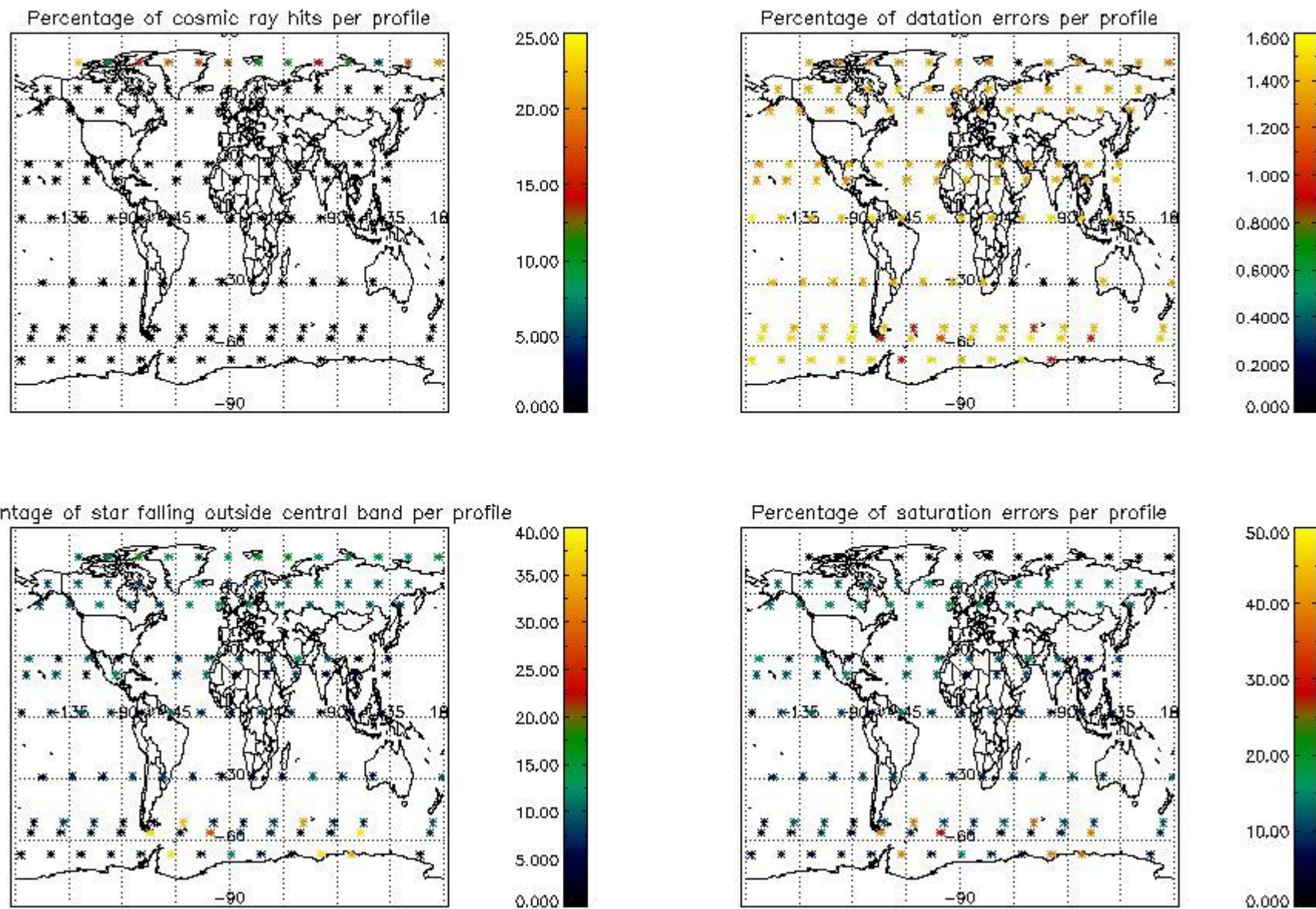


4.2 Plot quality information per product coming from level 1b processing (world map)

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

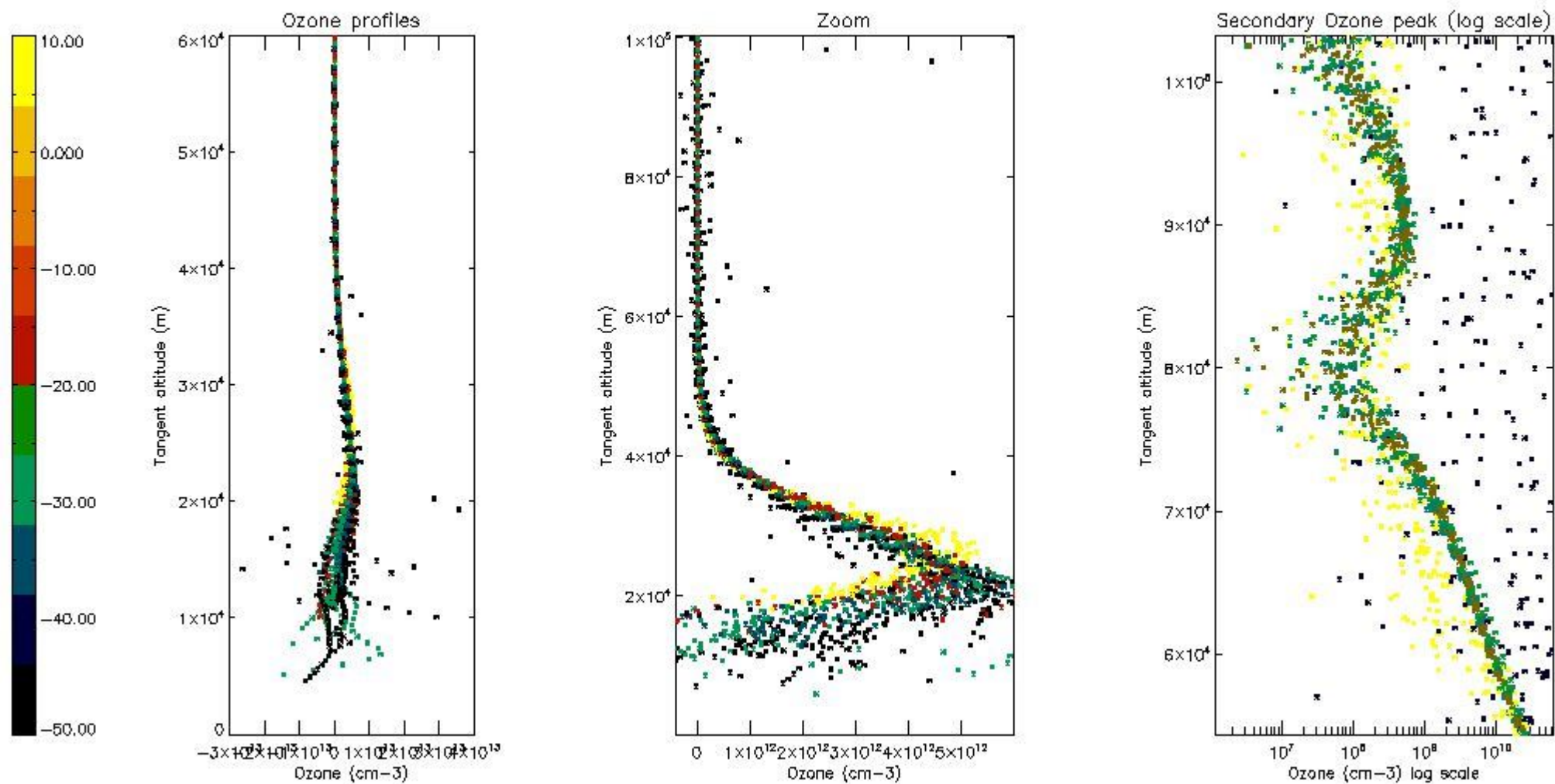
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	31
STD < 20	16

STD < 10	12
STD < 5	7

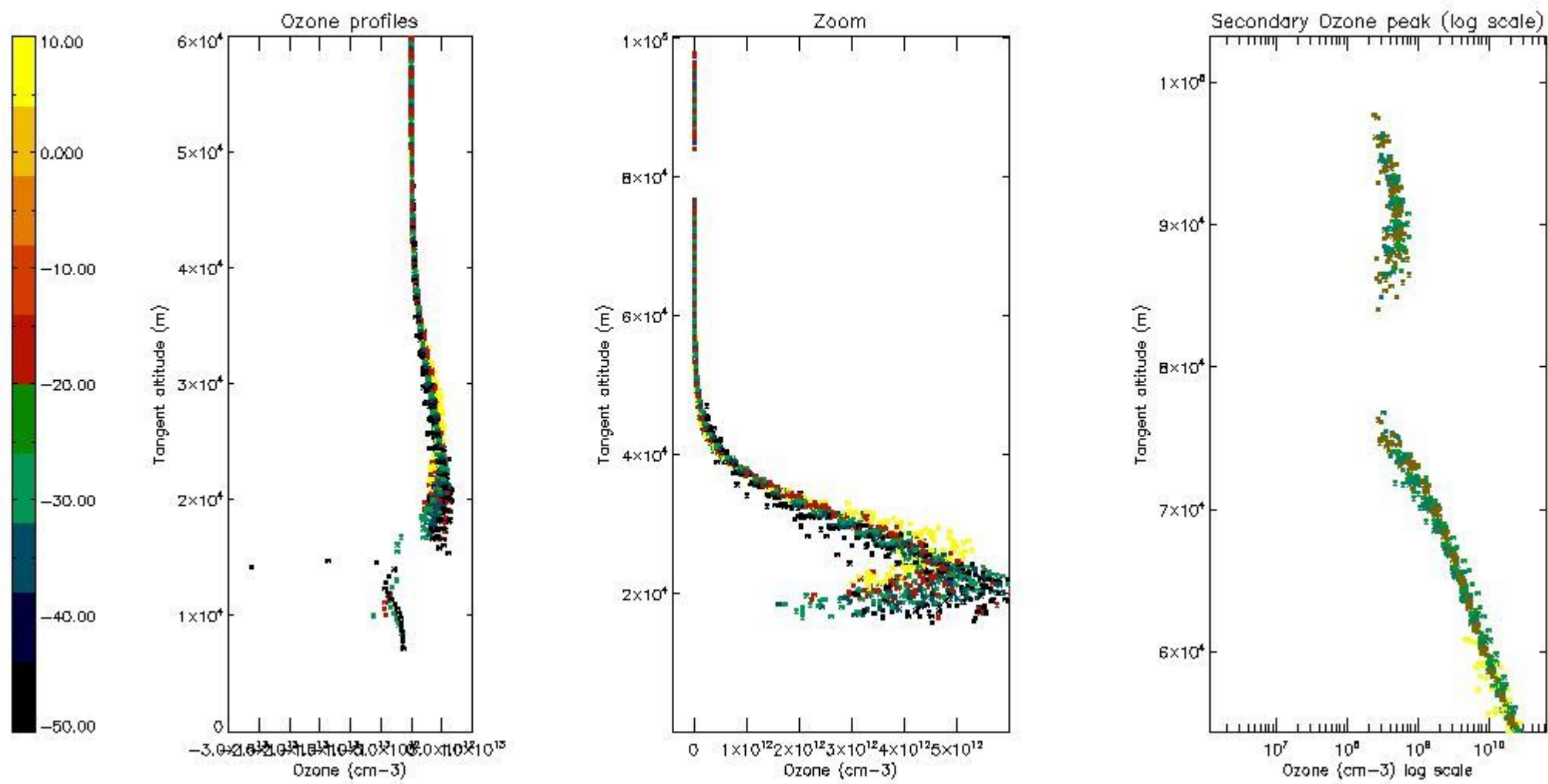
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



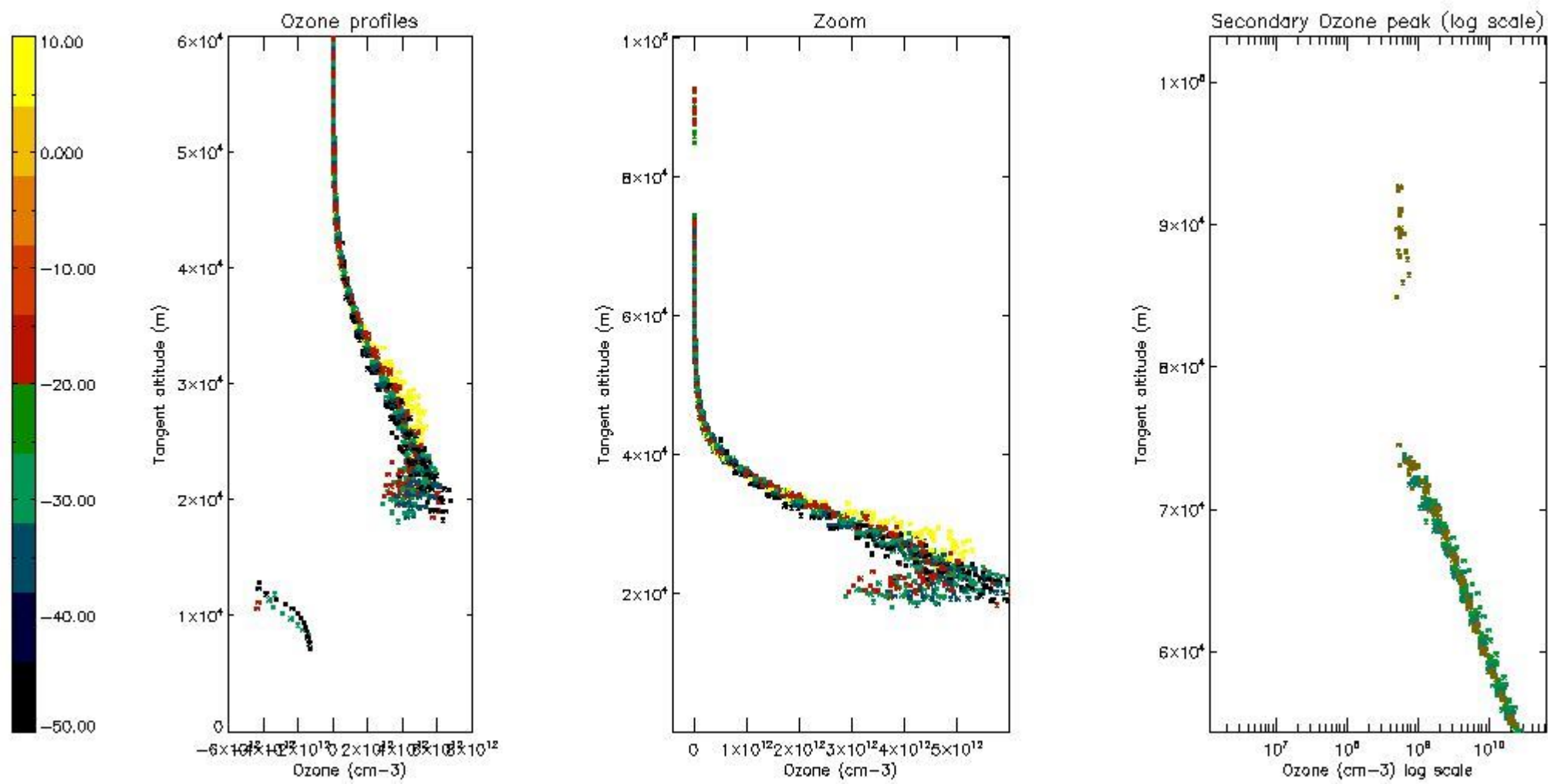
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



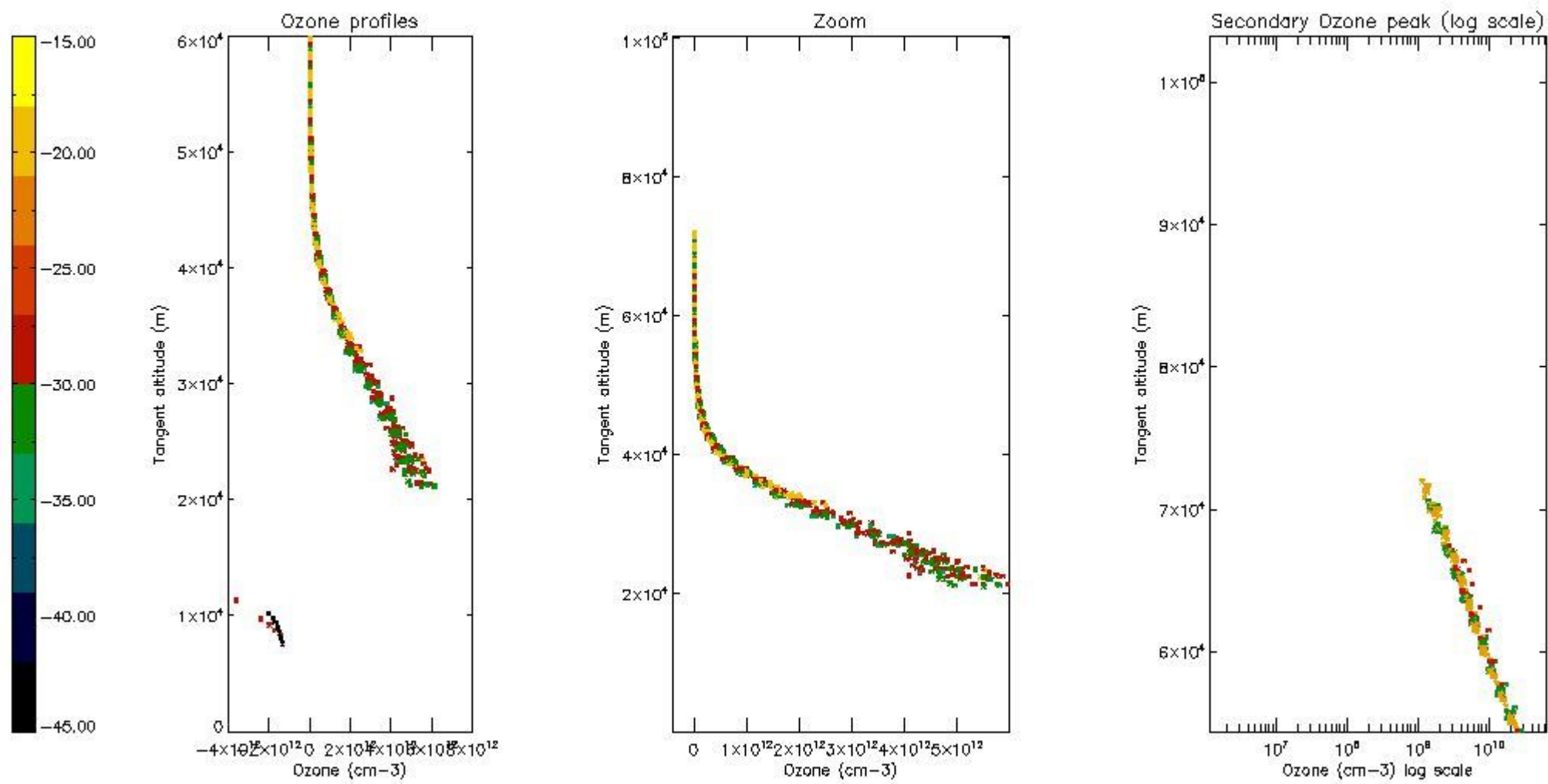
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



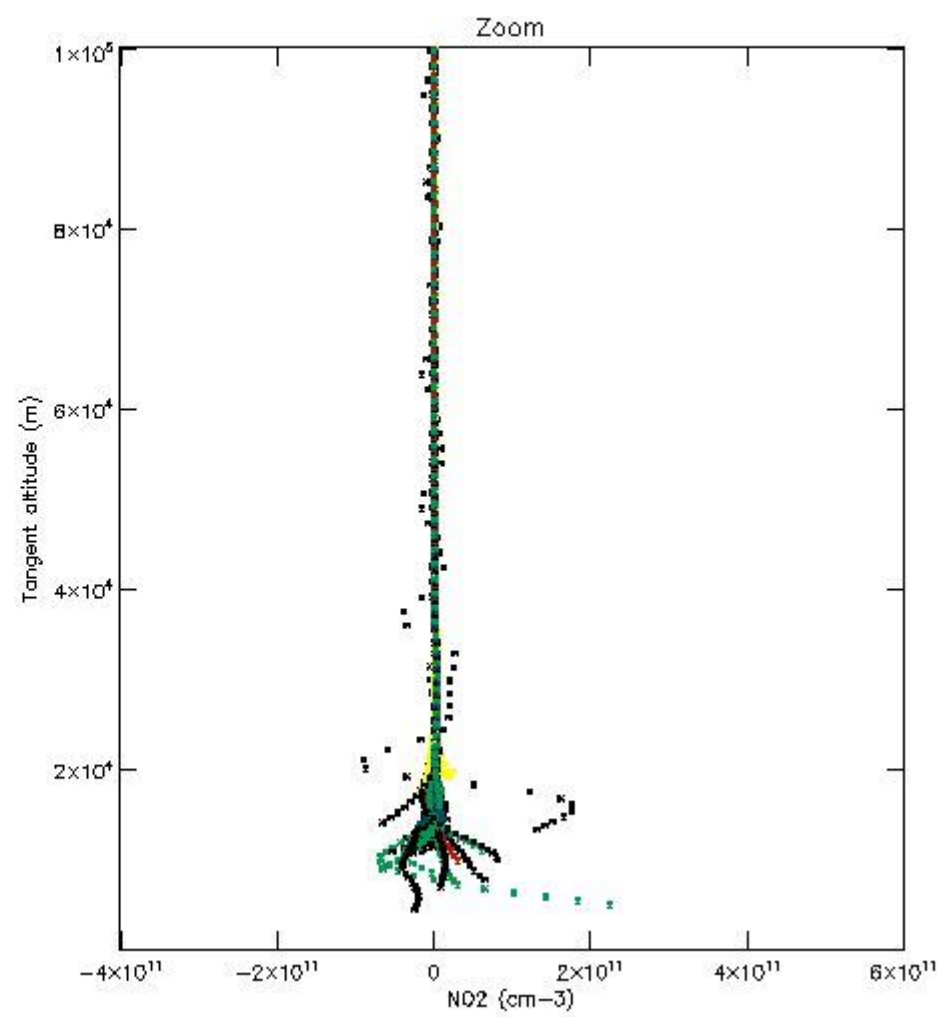
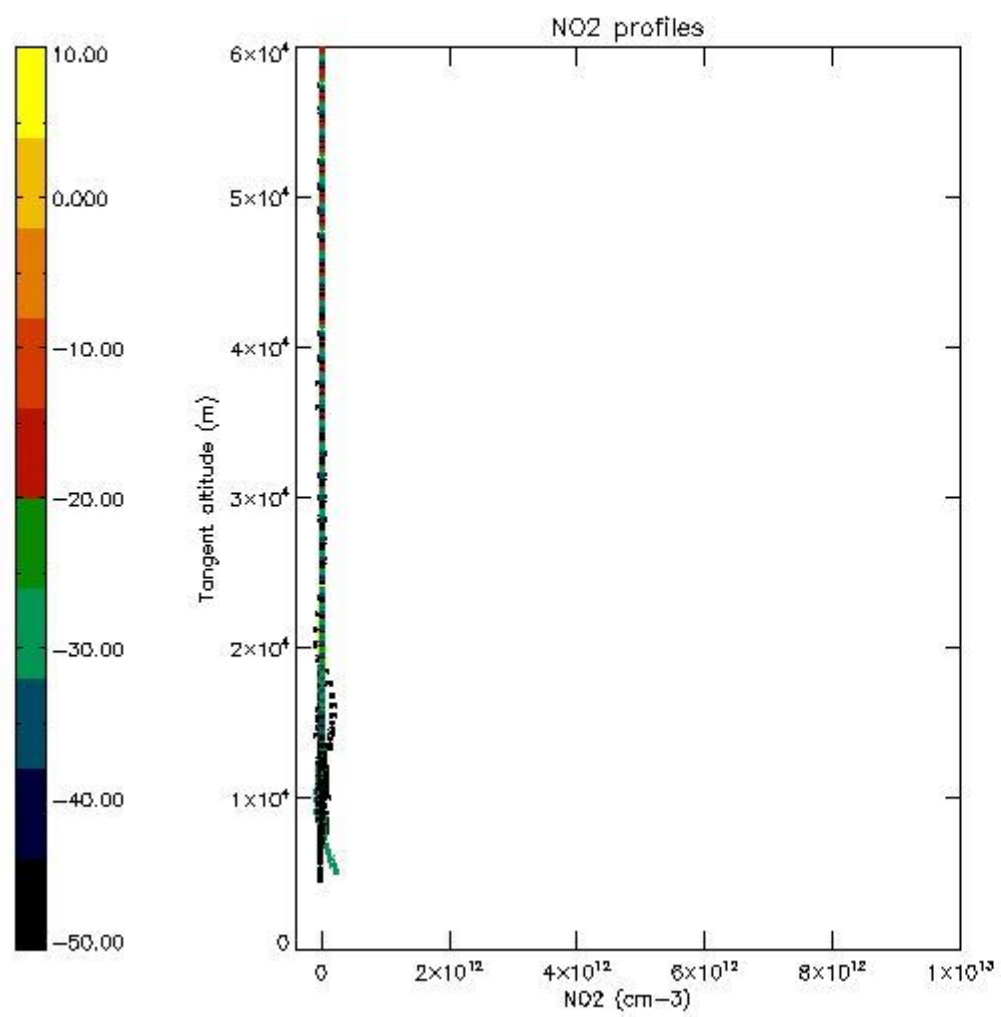
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



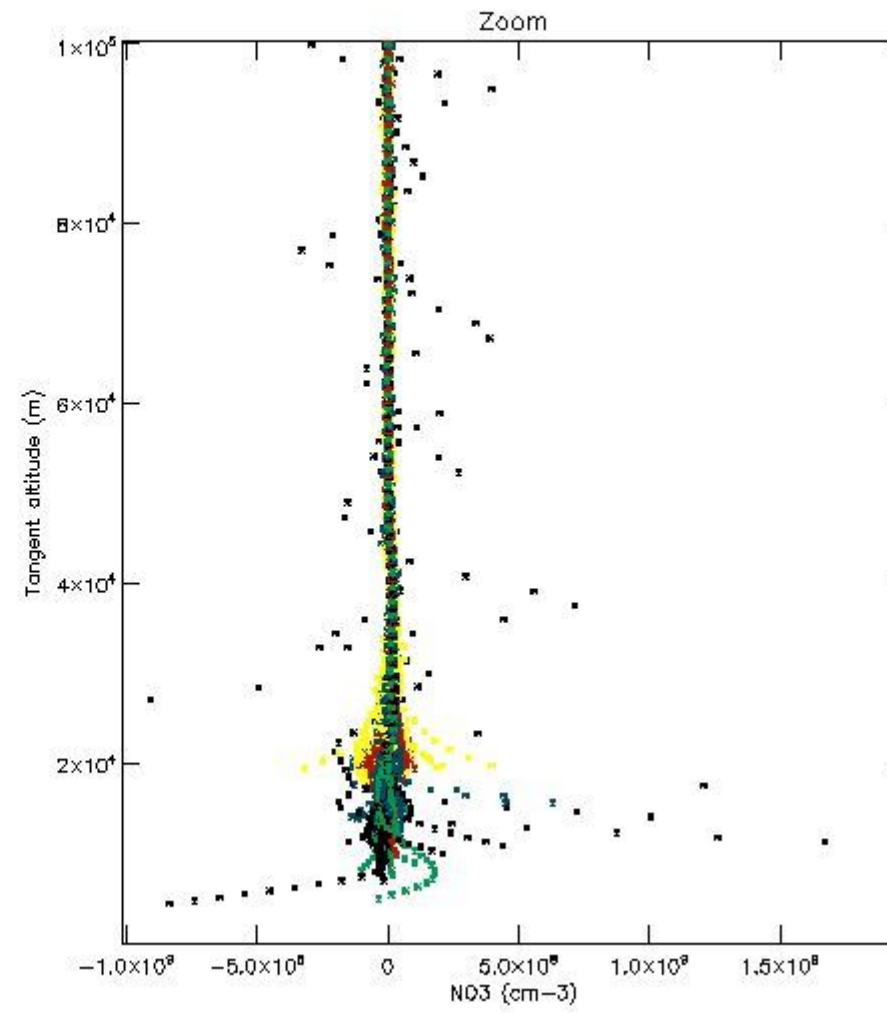
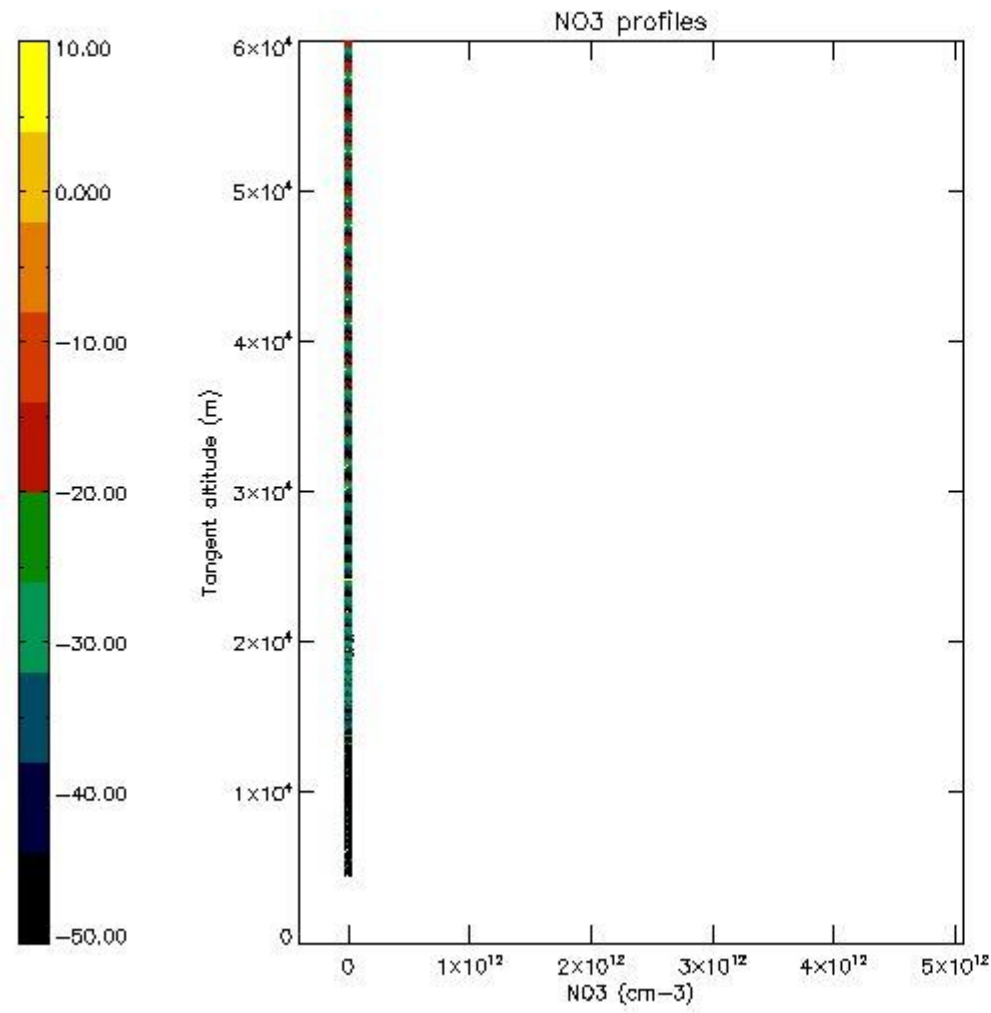
5.6 Plot NO₂ profiles for all STD (dark without errors)

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	18-SEP-2005 00:37:43
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	18-SEP-2005 00:37:43
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	18-SEP-2005 00:37:43

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[3.2 Plot of level 2 quality information per product \(world map\)](#)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Item	Value
Time of report generation	18APR2013 11:01:42
Data source version	GOMOS/6.01
Start time of products	18-09-2005 (18SEP2005 00:00:00)
Stop time of products	19-09-2005 (19SEP2005 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	236
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

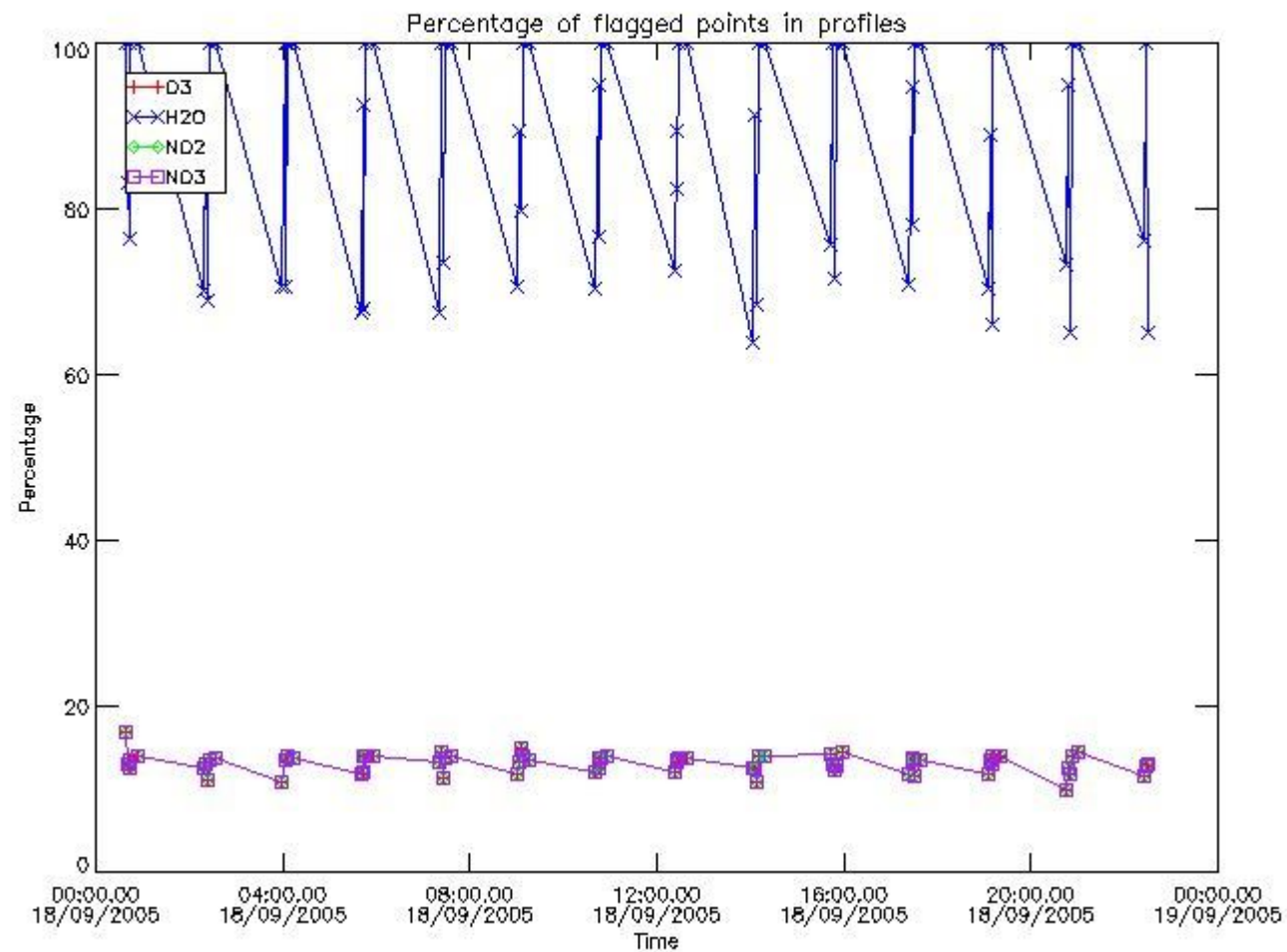
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20050918_003743_000000422040_00474_18564_6857.N1	18-SEP-2005 00:37:43	Dark	42.000	65	Lam Vel	2.2040	4400.0	84	18564	No
2	GOM_NL__2PRFIN20050918_004101_000000392040_00474_18564_6858.N1	18-SEP-2005 00:41:01	Dark	39.000	46	Del Vel	1.9540	10600.	78	18564	No
3	GOM_NL__2PRFIN20050918_004233_000000412040_00474_18564_6859.N1	18-SEP-2005 00:42:33	Dark	40.500	41	Eps Car	1.8600	4100.0	81	18564	No
4	GOM_NL__2PRFIN20050918_004450_000000382040_00475_18565_6857.N1	18-SEP-2005 00:44:50	Dark	37.500	29	Bet Car	1.6720	10200.	75	18565	No
5	GOM_NL__2PRFIN20050918_005307_000000372040_00475_18565_6858.N1	18-SEP-2005 00:53:07	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	18565	No
6	GOM_NL__2PRFIN20050918_005838_000000412040_00475_18565_6859.N1	18-SEP-2005 00:58:38	Straylight	41.000	148	Alp Tuc	2.8780	4100.0	82	18565	No
7	GOM_NL__2PRFIN20050918_010223_000000392040_00475_18565_6860.N1	18-SEP-2005 01:02:23	Straylight	39.000	31	Alp Gru	1.7340	15200.	78	18565	No
8	GOM_NL__2PRFIN20050918_010510_000000372040_00475_18565_6861.N1	18-SEP-2005 01:05:10	Straylight	37.000	172	Gam Gru	3.0030	13100.	74	18565	No
9	GOM_NL__2PRFIN20050918_011108_000000402040_00475_18565_6862.N1	18-SEP-2005 01:11:08	Tw_i_and_stray	39.500	142	49Del Cap	2.8500	8900.0	79	18565	No
10	GOM_NL__2PRFIN20050918_011519_000000382040_00475_18565_6863.N1	18-SEP-2005 01:15:19	Bright	37.500	162	34Alp Aqr	2.9440	5350.0	75	18565	No
11	GOM_NL__2PRFIN20050918_011820_000000372040_00475_18565_6864.N1	18-SEP-2005 01:18:20	Bright	36.500	61	8Eps Peg	2.1000	3900.0	73	18565	No
12	GOM_NL__2PRFIN20050918_012544_000000362040_00475_18565_6865.N1	18-SEP-2005 01:25:44	Bright	36.000	92	53Eps Cyg	2.5000	4500.0	72	18565	No
13	GOM_NL__2PRFIN20050918_012753_000000352040_00475_18565_6866.N1	18-SEP-2005 01:27:53	Bright	34.500	66	37Gam Cyg	2.2080	5900.0	69	18565	No
14	GOM_NL__2PRFIN20050918_013304_000000352040_00475_18565_6867.N1	18-SEP-2005 01:33:04	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	18565	No
15	GOM_NL__2PRFIN20050918_014148_000000362040_00475_18565_6868.N1	18-SEP-2005 01:41:48	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	18565	No
16	GOM_NL__2PRFIN20050918_014808_000000362040_00475_18565_6869.N1	18-SEP-2005 01:48:08	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	18565	No
17	GOM_NL__2PRFIN20050918_014935_000000522040_00475_18565_6870.N1	18-SEP-2005 01:49:35	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	18565	No
18	GOM_NL__2PRFIN20050918_015241_000000512040_00475_18565_6871.N1	18-SEP-2005 01:52:41	Bright	50.500	174	52Psi UMa	3.0040	4400.0	101	18565	No
19	GOM_NL__2PRFIN20050918_021819_000000412040_00475_18565_6872.N1	18-SEP-2005 02:18:19	Dark	40.500	65	Lam Vel	2.2040	4400.0	81	18565	No
20	GOM_NL__2PRFIN20050918_022137_000000392040_00475_18565_6873.N1	18-SEP-2005 02:21:37	Dark	39.000	46	Del Vel	1.9540	10600.	78	18565	No
21	GOM_NL__2PRFIN20050918_022309_000000462040_00475_18565_6874.N1	18-SEP-2005 02:23:09	Dark	45.500	41	Eps Car	1.8600	4100.0	91	18565	No
22	GOM_NL__2PRFIN20050918_022526_000000382040_00476_18566_6857.N1	18-SEP-2005 02:25:26	Dark	37.500	29	Bet Car	1.6720	10200.	75	18566	No
23	GOM_NL__2PRFIN20050918_023343_000000372040_00476_18566_6858.N1	18-SEP-2005 02:33:43	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	18566	No
24	GOM_NL__2PRFIN20050918_023915_000000382040_00476_18566_6859.N1	18-SEP-2005 02:39:15	Straylight	38.000	148	Alp Tuc	2.8780	4100.0	76	18566	No
25	GOM_NL__2PRFIN20050918_024259_000000402040_00476_18566_6860.N1	18-SEP-2005 02:42:59	Straylight	39.500	31	Alp Gru	1.7340	15200.	79	18566	No
26	GOM_NL__2PRFIN20050918_024546_000000372040_00476_18566_6861.N1	18-SEP-2005 02:45:46	Straylight	37.000	172	Gam Gru	3.0030	13100.	74	18566	No
27	GOM_NL__2PRFIN20050918_025144_000000382040_00476_18566_6862.N1	18-SEP-2005 02:51:44	Tw_i_and_stray	38.000	142	49Del Cap	2.8500	8900.0	76	18566	No
28	GOM_NL__2PRFIN20050918_025556_000000372040_00476_18566_6863.N1	18-SEP-2005 02:55:56	Bright	37.000	162	34Alp Aqr	2.9440	5350.0	74	18566	No
29	GOM_NL__2PRFIN20050918_025857_000000372040_00476_18566_6864.N1	18-SEP-2005 02:58:57	Bright	37.000	61	8Eps Peg	2.1000	3900.0	74	18566	No
30	GOM_NL__2PRFIN20050918_030620_000000352040_00476_18566_6865.N1	18-SEP-2005 03:06:20	Bright	34.500	92	53Eps Cyg	2.5000	4500.0	69	18566	No
31	GOM_NL__2PRFIN20050918_030829_000000372040_00476_18566_6866.N1	18-SEP-2005 03:08:29	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	18566	No
32	GOM_NL__2PRFIN20050918_031340_000000352040_00476_18566_6867.N1	18-SEP-2005 03:13:40	Bright	34.500	89	5Alp Cep	2.4510	8000.0	69	18566	No
33	GOM_NL__2PRFIN20050918_032224_000000372040_00476_18566_6868.N1	18-SEP-2005 03:22:24	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	18566	No
34	GOM_NL__2PRFIN20050918_032844_000000362040_00476_18566_6869.N1	18-SEP-2005 03:28:44	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	18566	No
35	GOM_NL__2PRFIN20050918_033011_000000352040_00476_18566_6870.N1	18-SEP-2005 03:30:11	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	18566	No
36	GOM_NL__2PRFIN20050918_033317_000000522040_00476_18566_6871.N1	18-SEP-2005 03:33:17	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	18566	No
37	GOM_NL__2PRFIN20050918_035855_000000472040_00476_18566_6872.N1	18-SEP-2005 03:58:55	Dark	46.500	65	Lam Vel	2.2040	4400.0	93	18566	No
38	GOM_NL__2PRFIN20050918_040213_000000382040_00476_18566_6873.N1	18-SEP-2005 04:02:13	Dark	37.500	46	Del Vel	1.9540	10600.	75	18566	No
39	GOM_NL__2PRFIN20050918_040346_000000382040_00476_18566_6874.N1	18-SEP-2005 04:03:46	Dark	38.000	41	Eps Car	1.8600	4100.0	76	18566	No
40	GOM_NL__2PRFIN20050918_040602_000000372040_00477_18567_6857.N1	18-SEP-2005 04:06:02	Dark	36.500	29	Bet Car	1.6720	10200.	73	18567	No
41	GOM_NL__2PRFIN20050918_041420_000000372040_00477_18567_6858.N1	18-SEP-2005 04:14:20	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	18567	No
42	GOM_NL__2PRFIN20050918_041951_000000412040_00477_18567_6859.N1	18-SEP-2005 04:19:51	Straylight	41.000	148	Alp Tuc	2.8780	4100.0	82	18567	No

220	GOM_NL__2PRFIN20050918_210021_000000362040_00487_18577_6881.N1	18-SEP-2005 21:00:21	Dark	35.500	135	Bet Hyi	2.8200	5800.0	71	18577	No
221	GOM_NL__2PRFIN20050918_210551_000000422040_00487_18577_6882.N1	18-SEP-2005 21:05:51	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	18577	No
222	GOM_NL__2PRFIN20050918_210936_000000422040_00487_18577_6883.N1	18-SEP-2005 21:09:36	Straylight	42.000	31	Alp Gru	1.7340	15200.	84	18577	No
223	GOM_NL__2PRFIN20050918_211224_000000382040_00487_18577_6884.N1	18-SEP-2005 21:12:24	Straylight	38.000	172	Gam Gru	3.0030	13100.	76	18577	No
224	GOM_NL__2PRFIN20050918_211821_000000372040_00487_18577_6885.N1	18-SEP-2005 21:18:21	Twilight_stray	37.000	142	49Del Cap	2.8500	8900.0	74	18577	No
225	GOM_NL__2PRFIN20050918_212233_000000372040_00487_18577_6886.N1	18-SEP-2005 21:22:33	Bright	36.500	162	34Alp Aqr	2.9440	5350.0	73	18577	No
226	GOM_NL__2PRFIN20050918_212534_000000372040_00487_18577_6887.N1	18-SEP-2005 21:25:34	Bright	36.500	61	8Eps Peg	2.1000	3900.0	73	18577	No
227	GOM_NL__2PRFIN20050918_213259_000000392040_00487_18577_6888.N1	18-SEP-2005 21:32:59	Bright	38.500	92	53Eps Cyg	2.5000	4500.0	77	18577	No
228	GOM_NL__2PRFIN20050918_213509_000000382040_00487_18577_6889.N1	18-SEP-2005 21:35:09	Bright	37.500	66	37Gam Cyg	2.2080	5900.0	75	18577	No
229	GOM_NL__2PRFIN20050918_214017_000000322040_00487_18577_6890.N1	18-SEP-2005 21:40:17	Bright	32.000	89	5Alp Cep	2.4510	8000.0	64	18577	No
230	GOM_NL__2PRFIN20050918_214903_000000382040_00487_18577_6891.N1	18-SEP-2005 21:49:03	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	18577	No
231	GOM_NL__2PRFIN20050918_215522_000000372040_00487_18577_6892.N1	18-SEP-2005 21:55:22	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	18577	No
232	GOM_NL__2PRFIN20050918_215649_000000352040_00487_18577_6893.N1	18-SEP-2005 21:56:49	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	18577	No
233	GOM_NL__2PRFIN20050918_215955_000000342040_00487_18577_6894.N1	18-SEP-2005 21:59:55	Bright	33.500	174	52Psi UMa	3.0040	4400.0	67	18577	No
234	GOM_NL__2PRFIN20050918_222533_000000452040_00487_18577_6895.N1	18-SEP-2005 22:25:33	Dark	44.500	65	Lam Vel	2.2040	4400.0	89	18577	No
235	GOM_NL__2PRFIN20050918_222851_000000402040_00487_18577_6896.N1	18-SEP-2005 22:28:51	Dark	40.000	46	Del Vel	1.9540	10600.	80	18577	No
236	GOM_NL__2PRFIN20050918_223024_000000392040_00487_18577_6897.N1	18-SEP-2005 22:30:24	Dark	38.500	41	Eps Car	1.8600	4100.0	77	18577	No

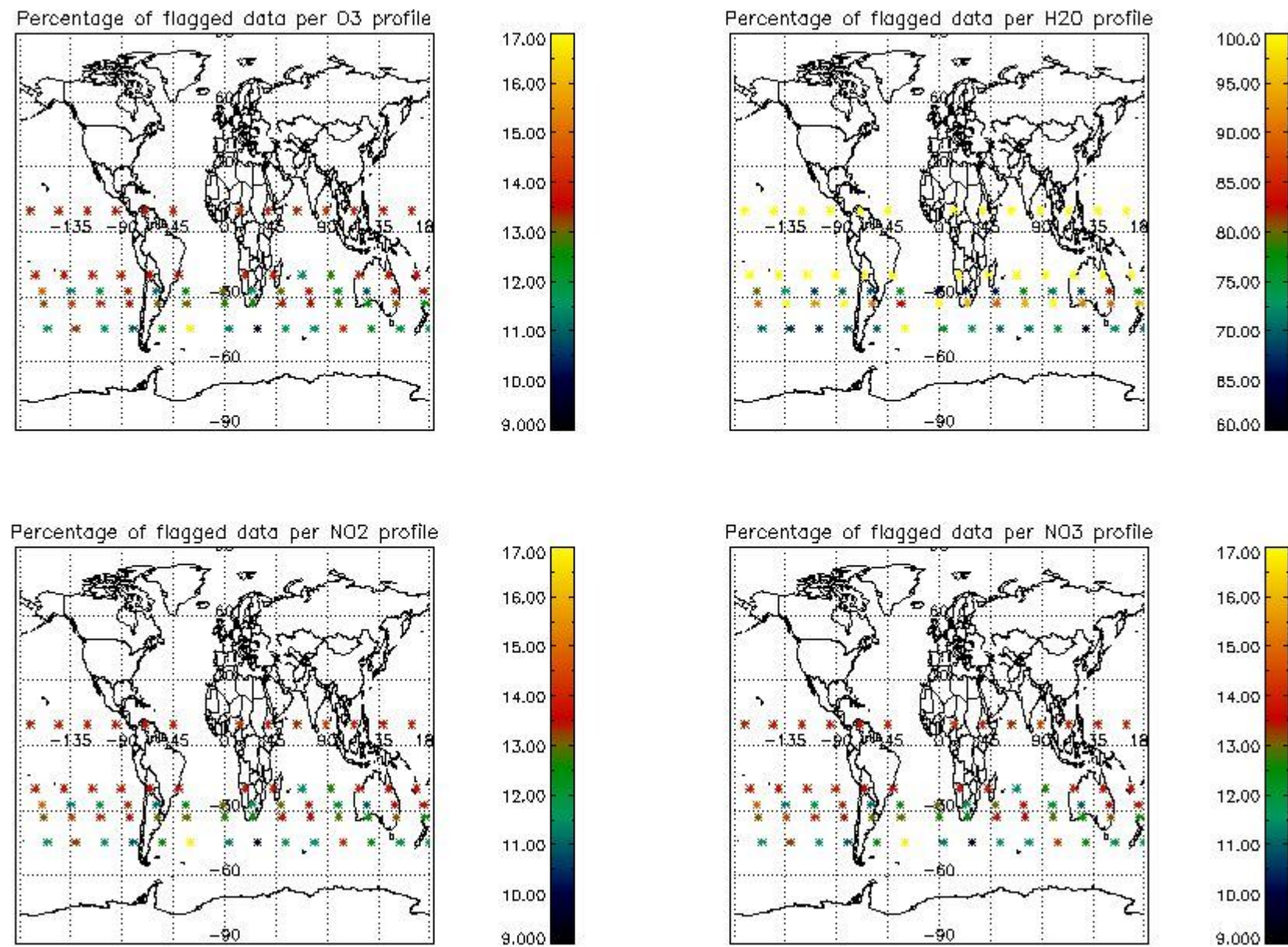
3. Quality information per product

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)

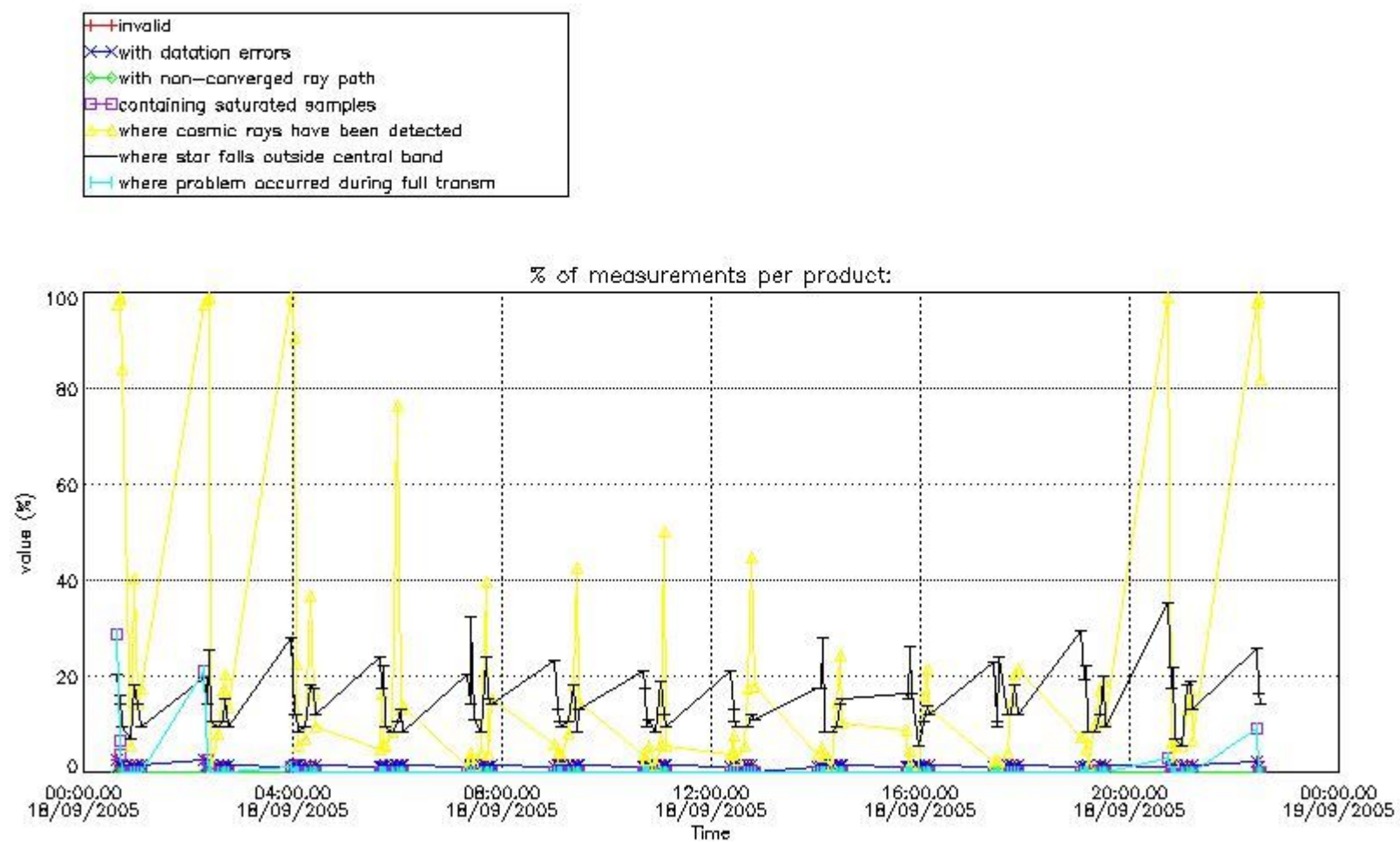


4. Level 1 quality information per product

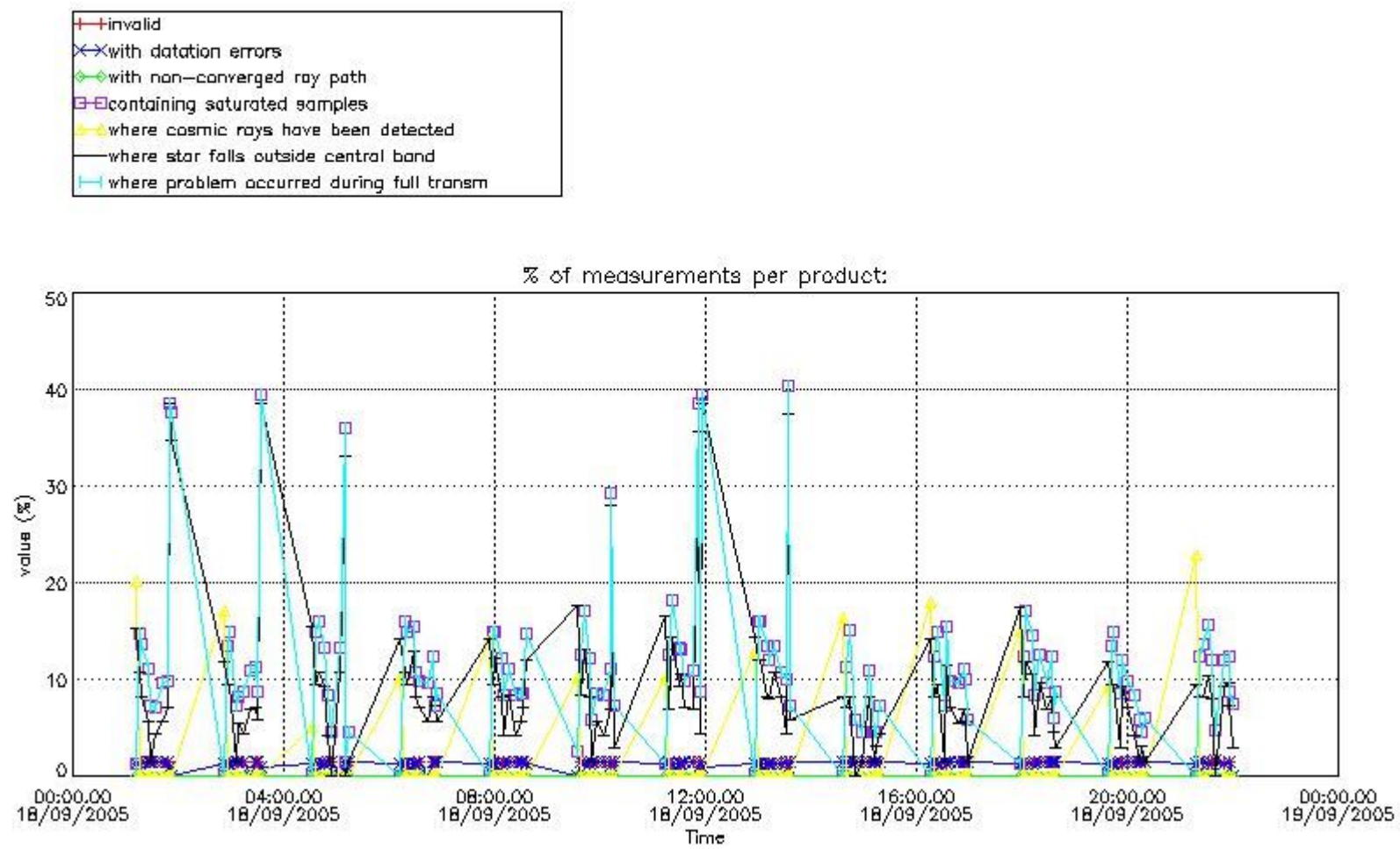
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



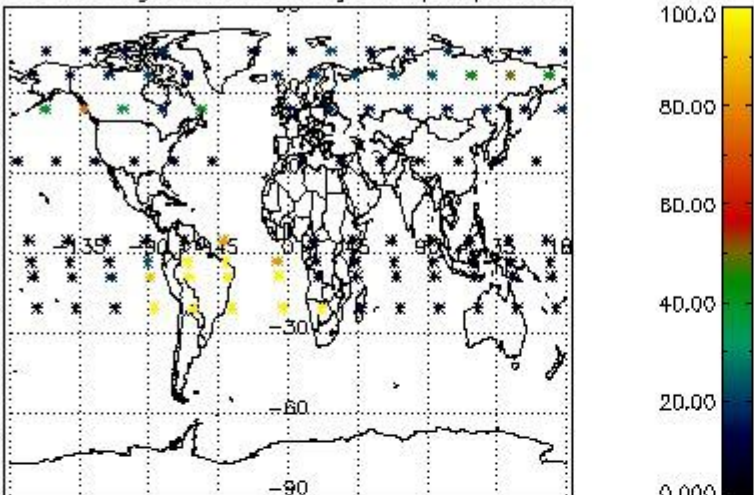
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



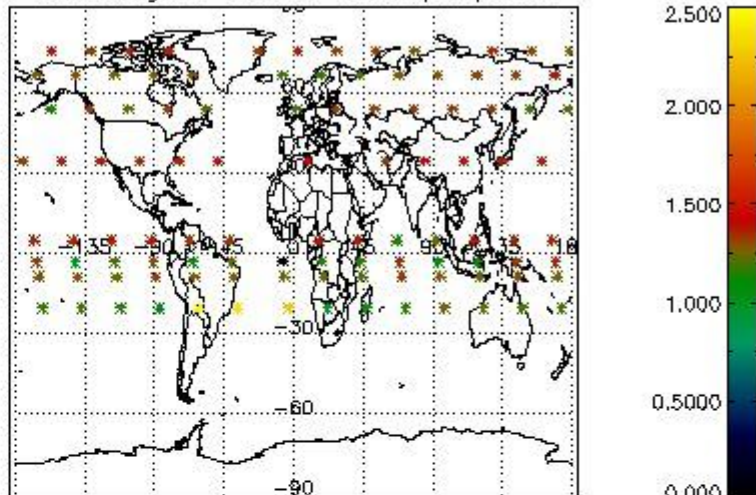
4.2 Plot quality information per product coming from level 1b processing (world map)

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

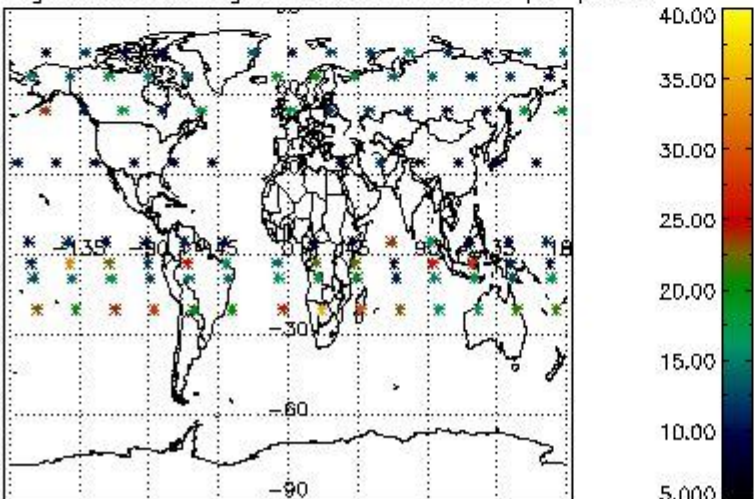
Percentage of cosmic ray hits per profile



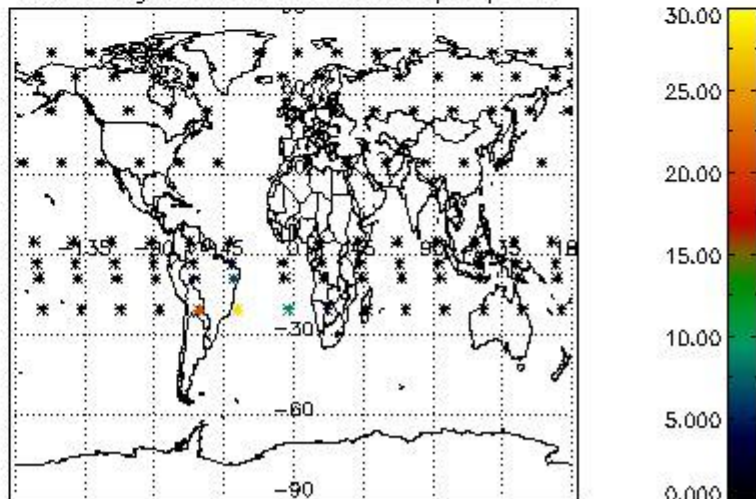
Percentage of datation errors per profile



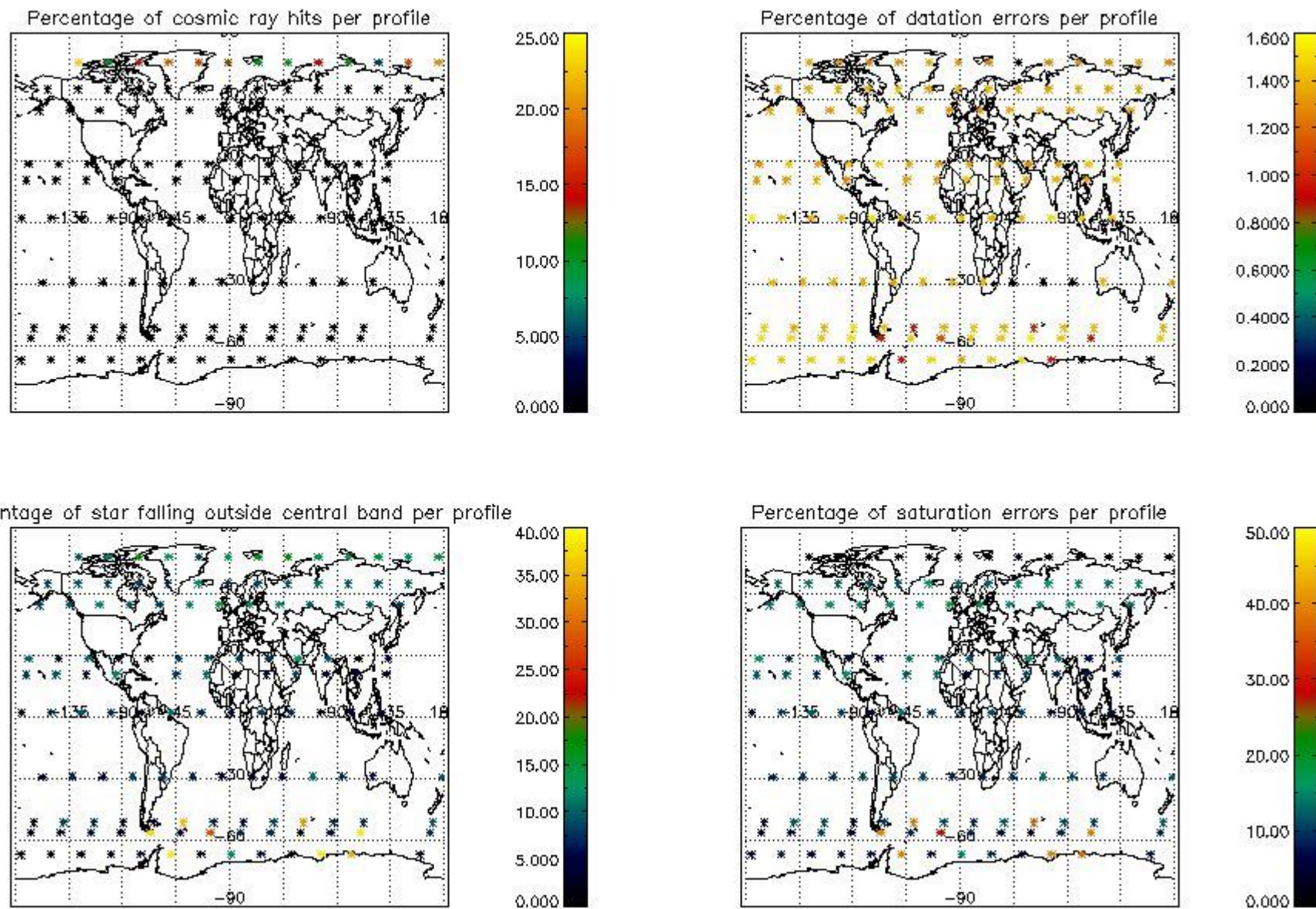
Percentage of star falling outside central band per profile



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

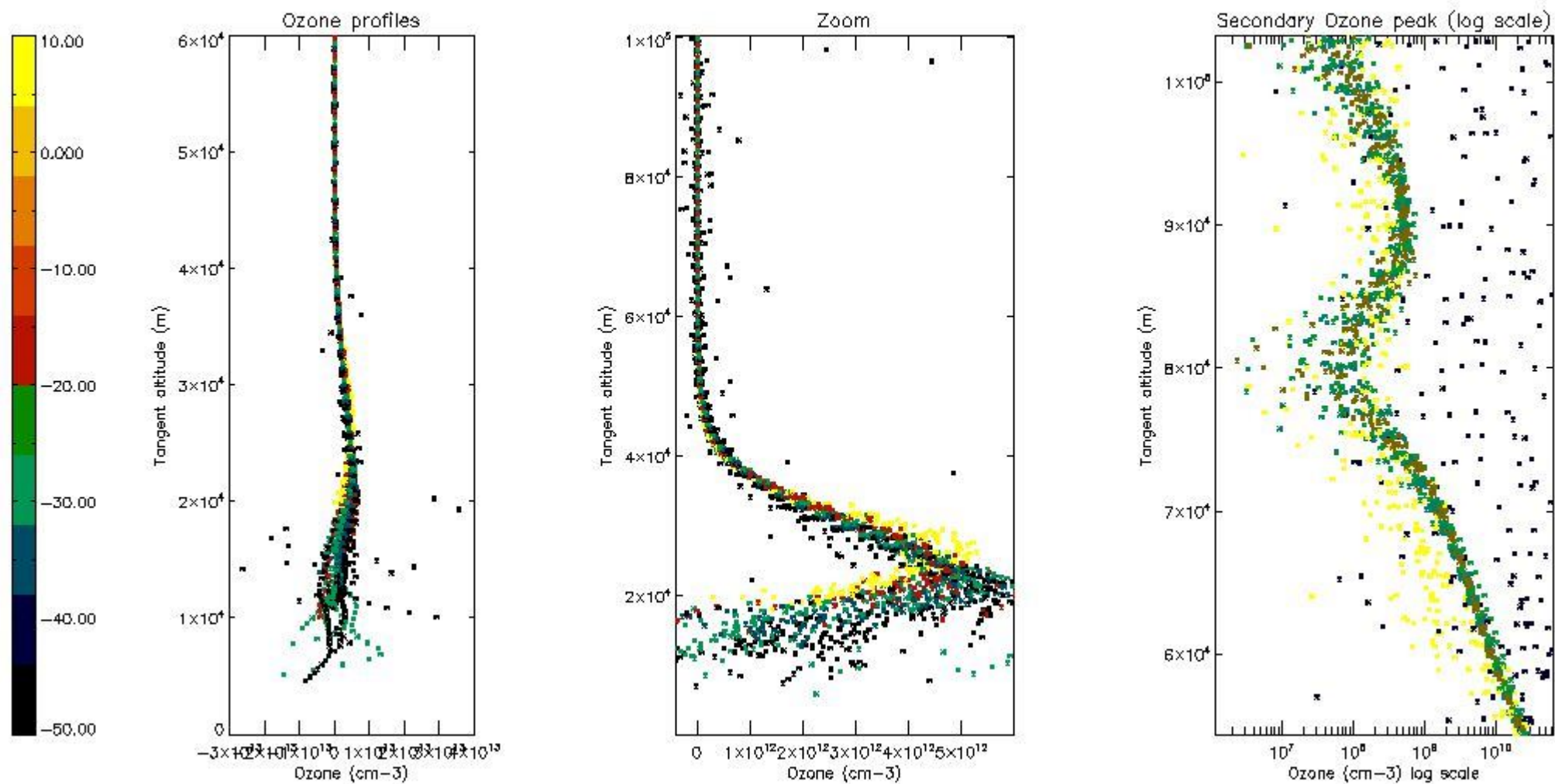
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	31
STD < 20	16

STD < 10	12
STD < 5	7

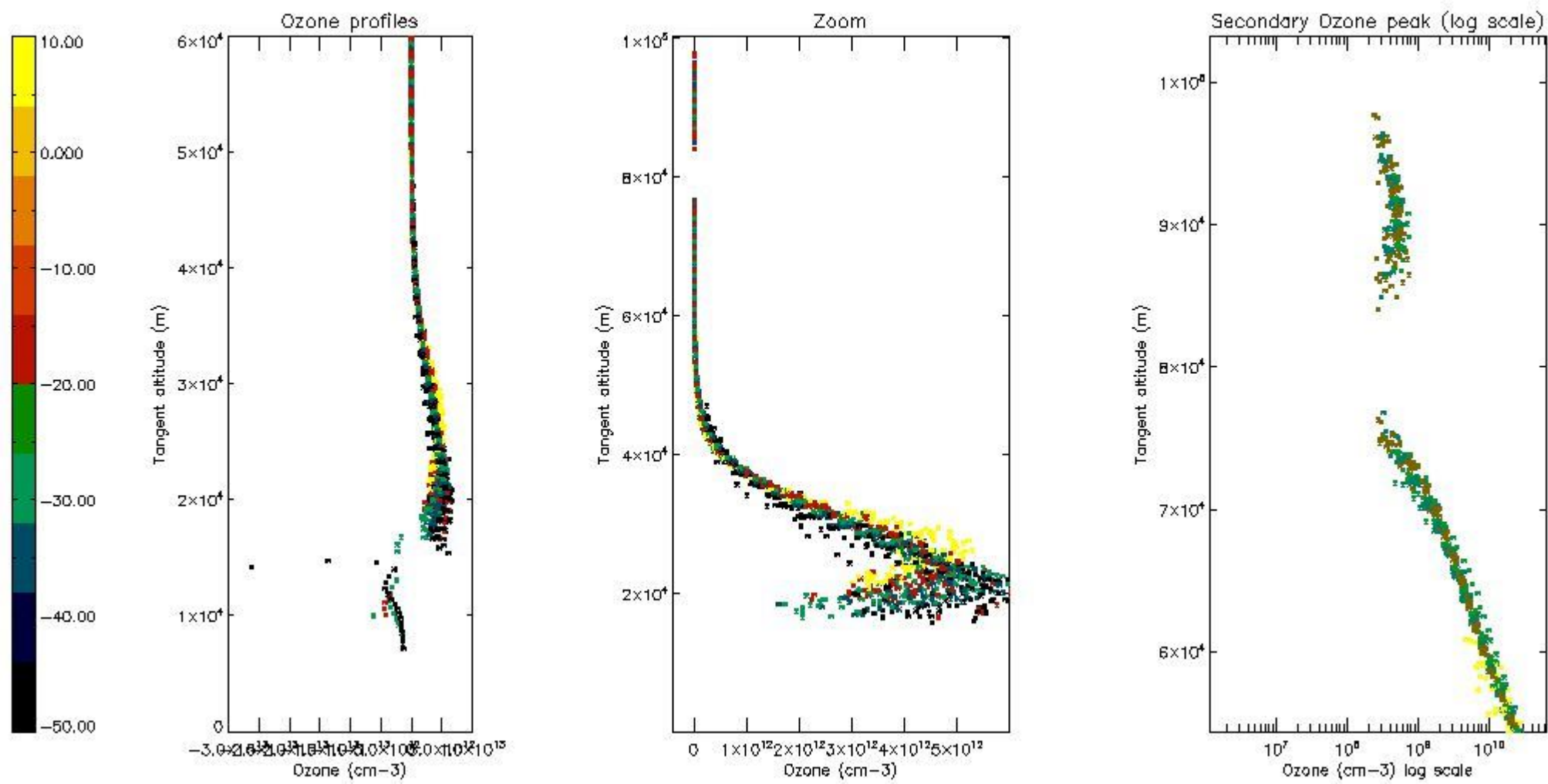
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



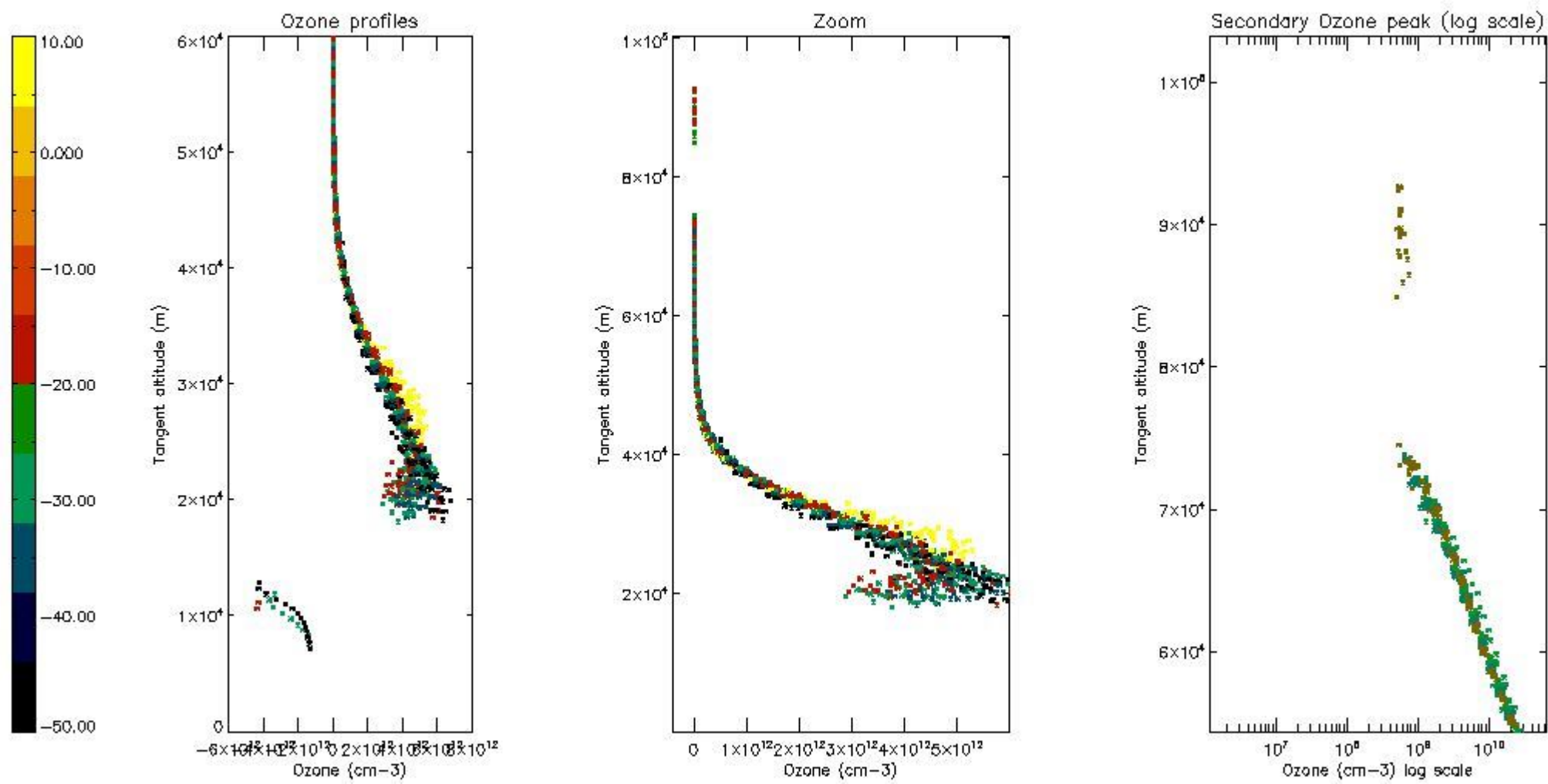
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



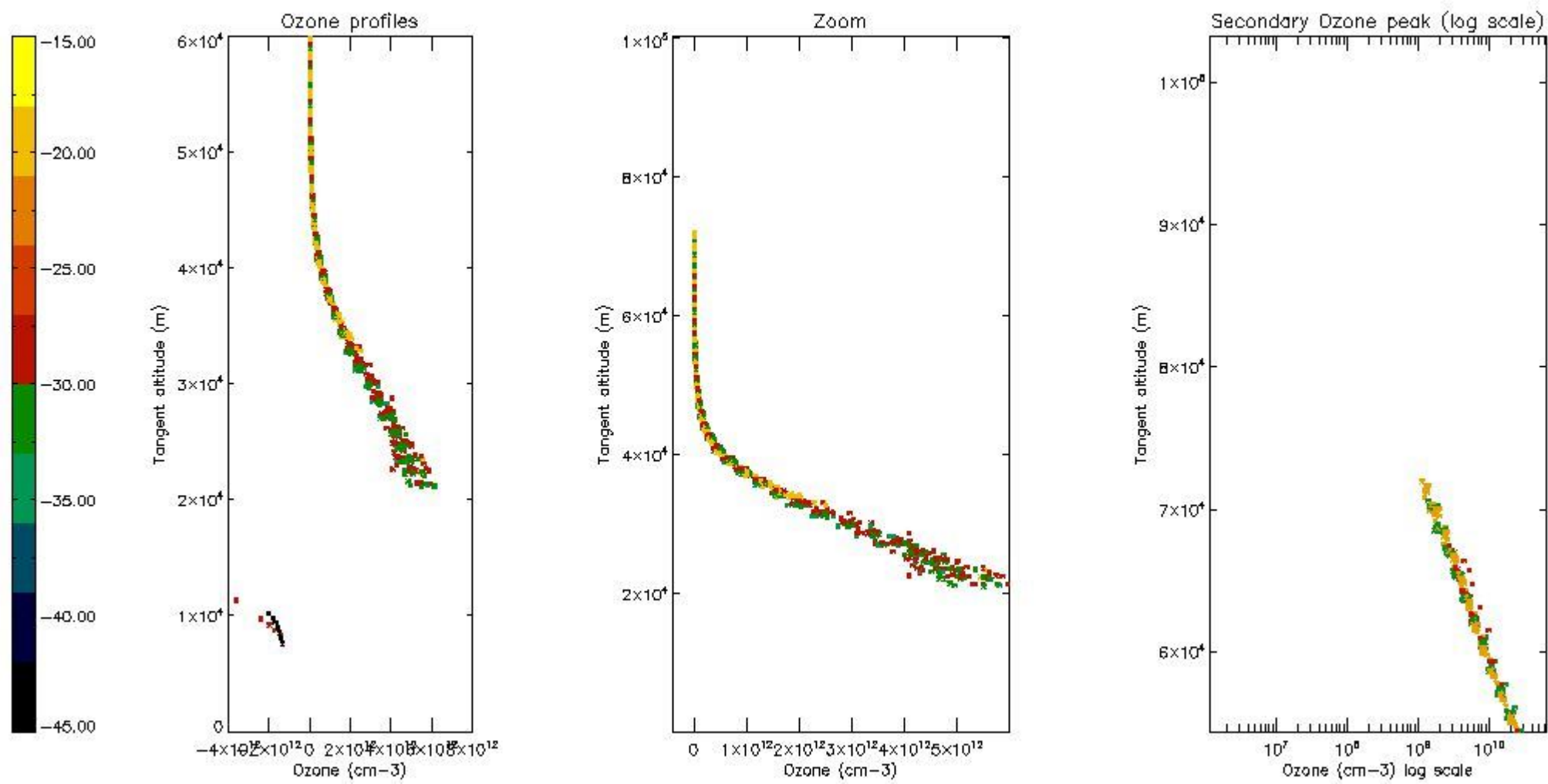
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



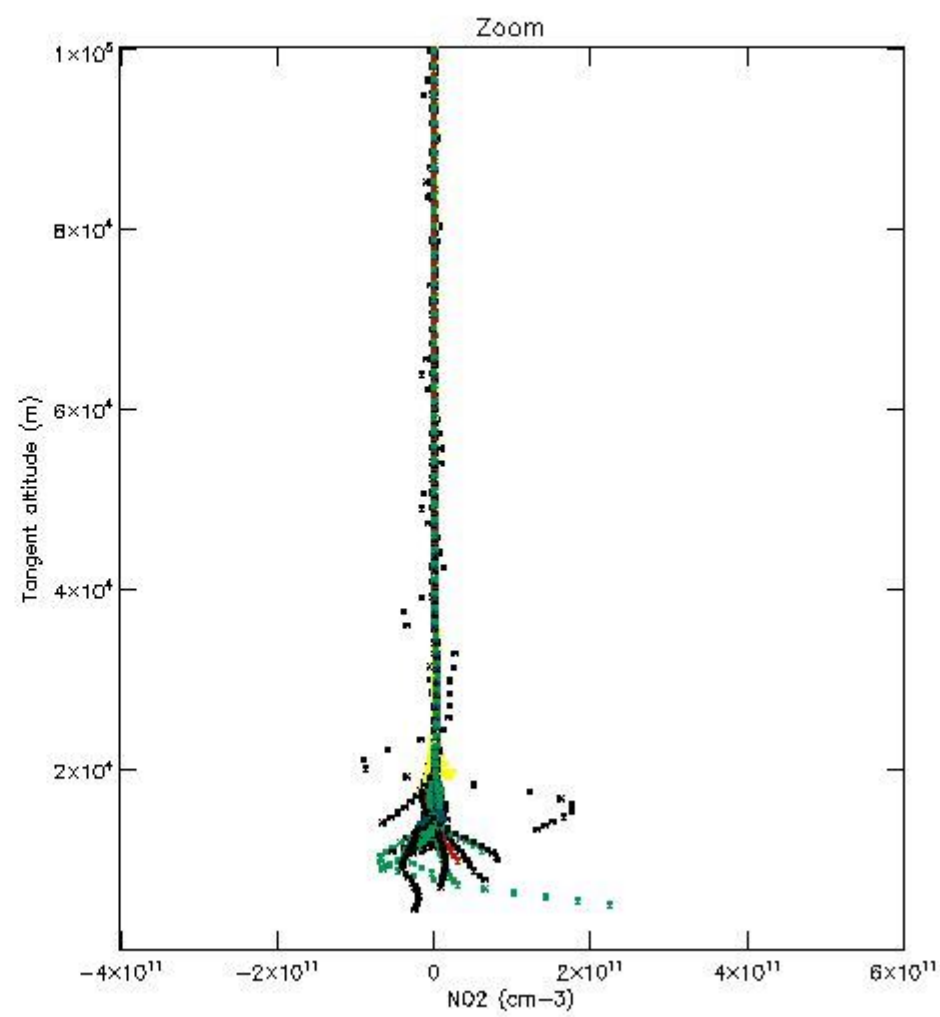
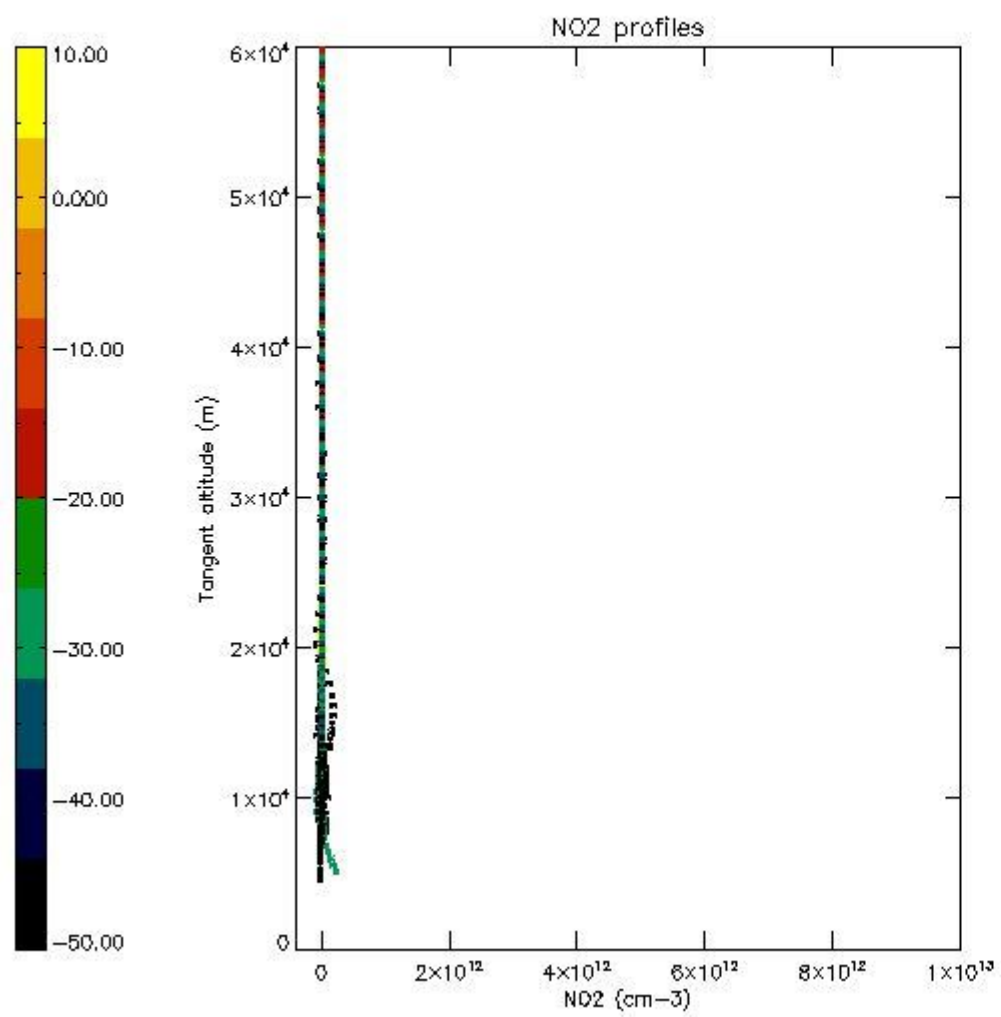
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



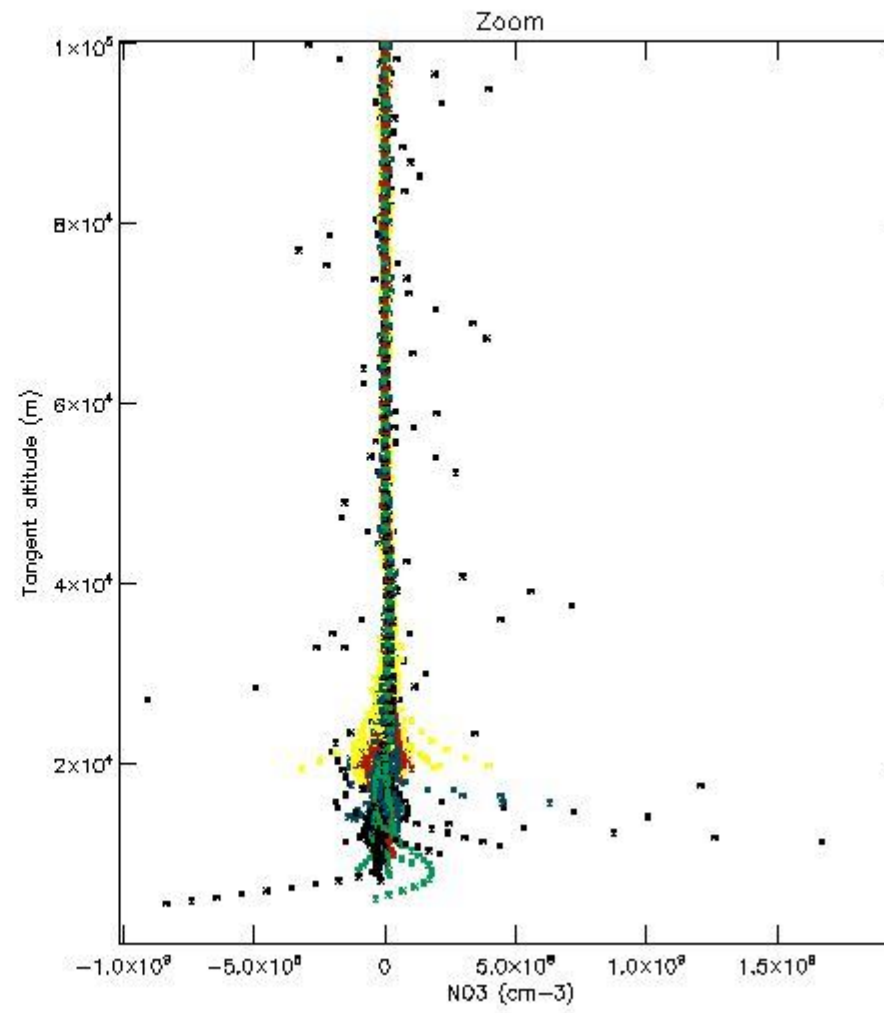
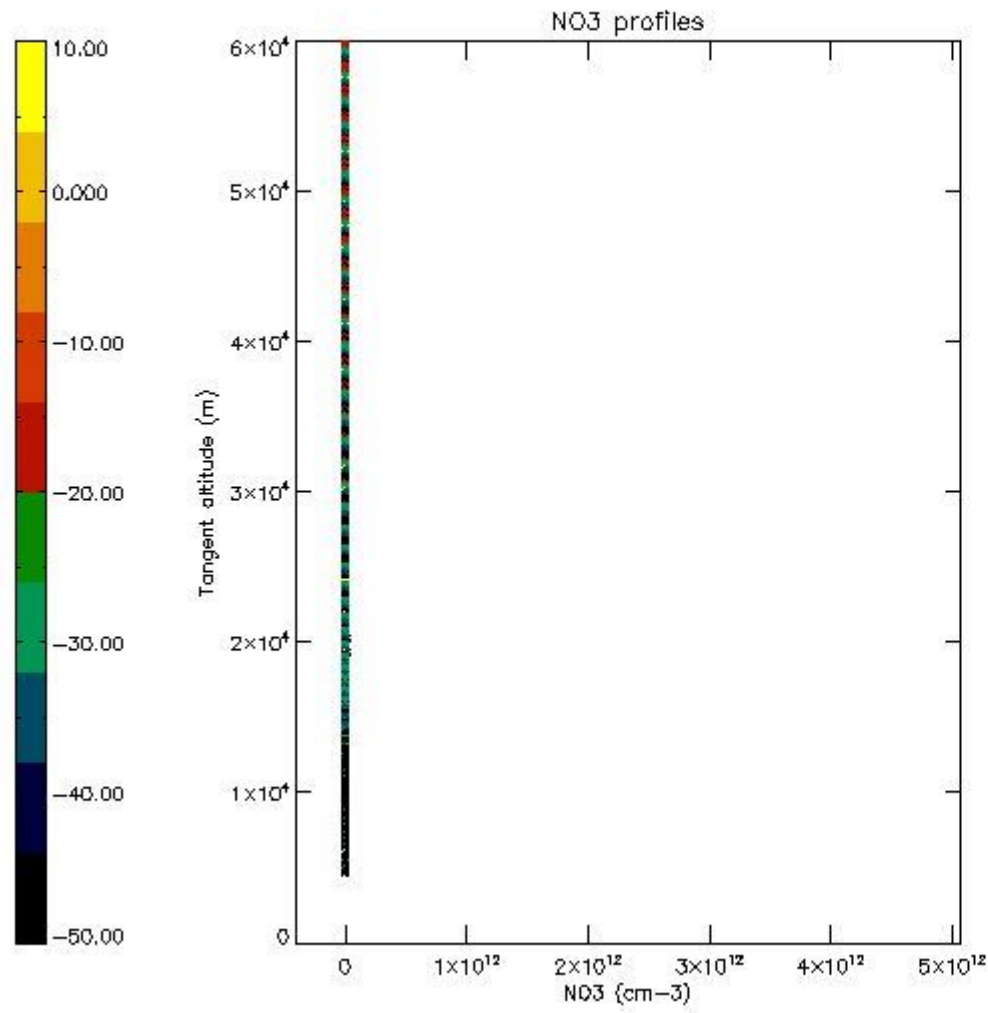
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

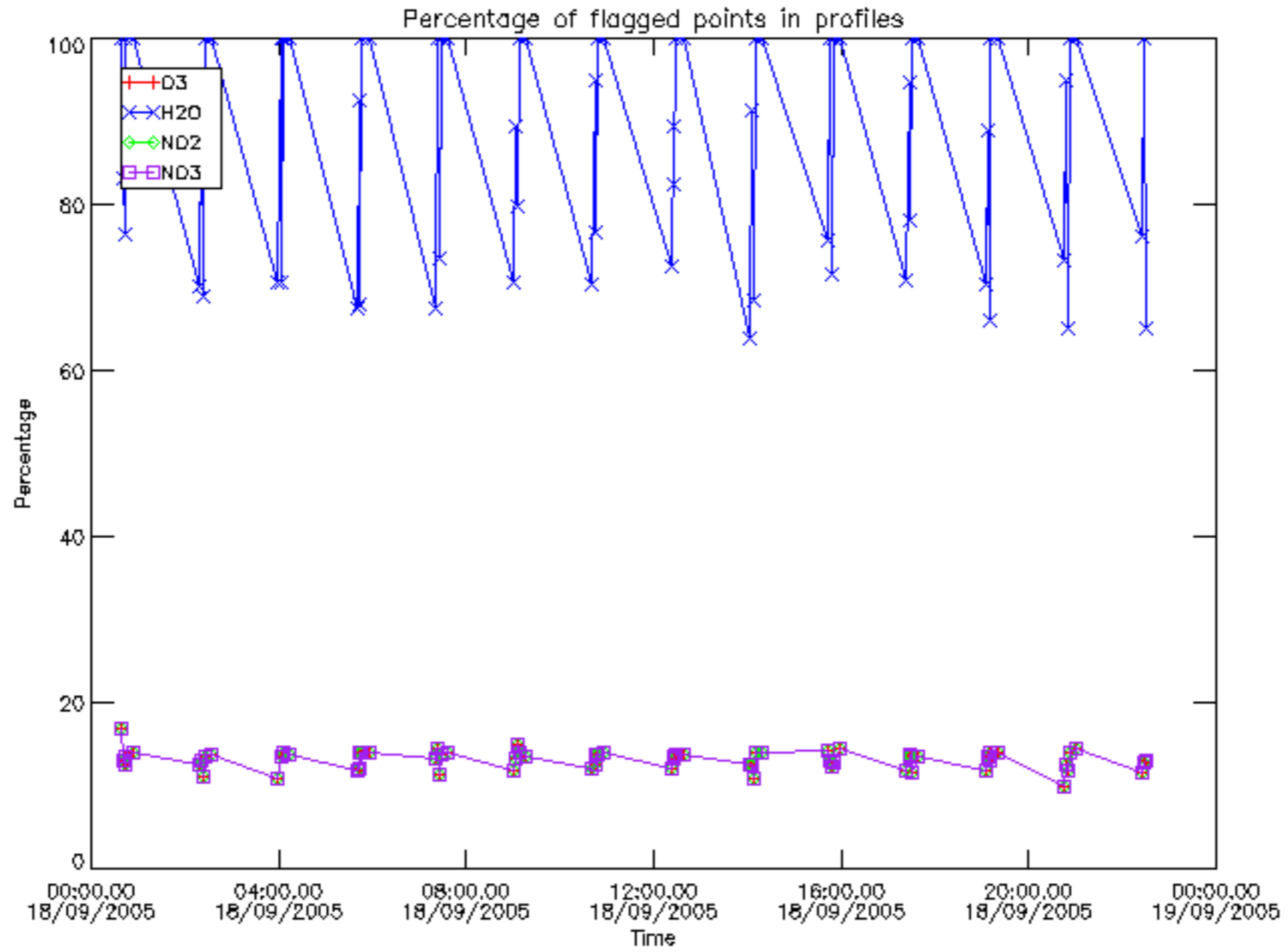
The colorbar represents the latitude.



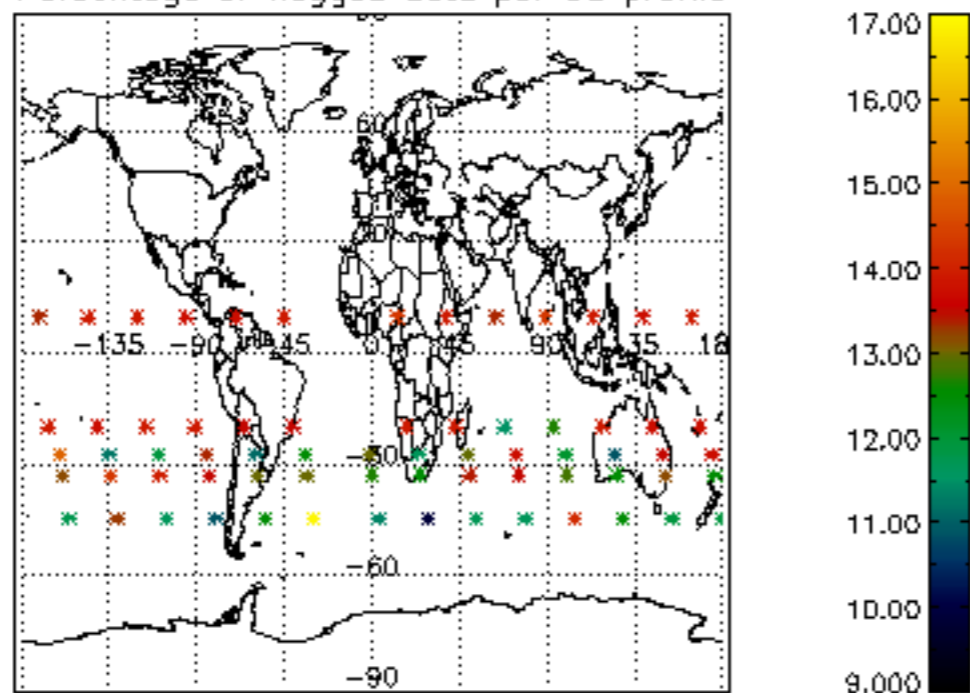
6. Auxiliary Data Files used for the production reported in section 2

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.

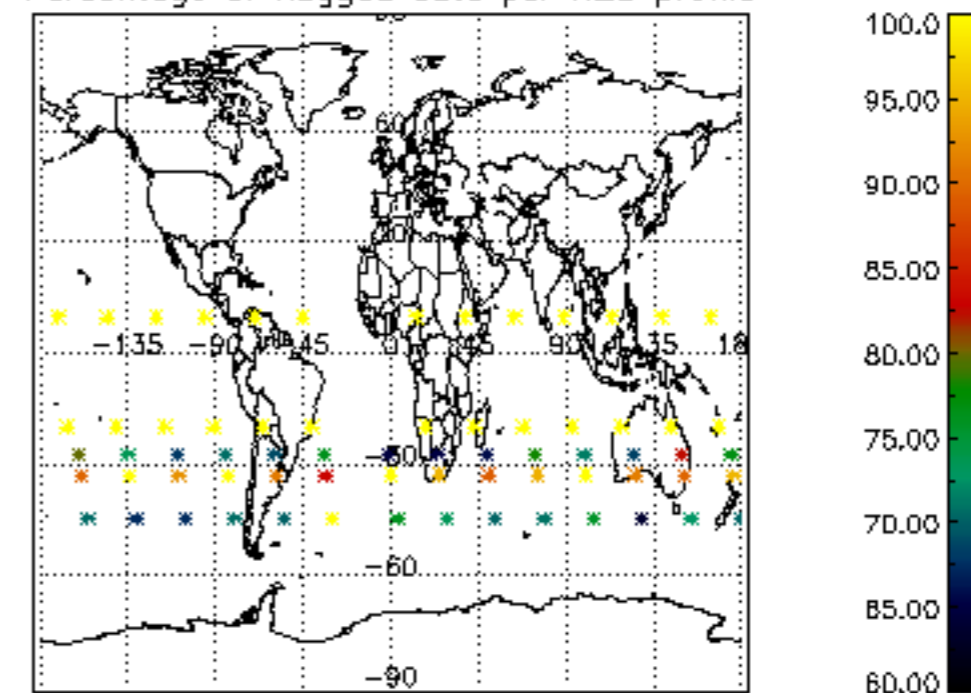
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	18-SEP-2005 00:37:43
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	18-SEP-2005 00:37:43
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	18-SEP-2005 00:37:43



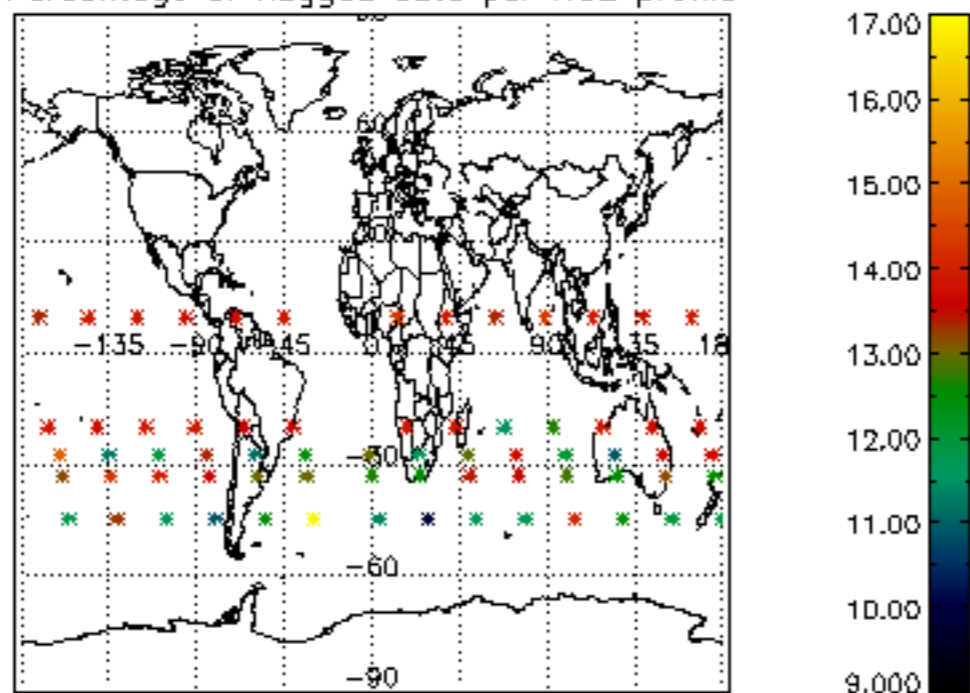
Percentage of flagged data per D3 profile



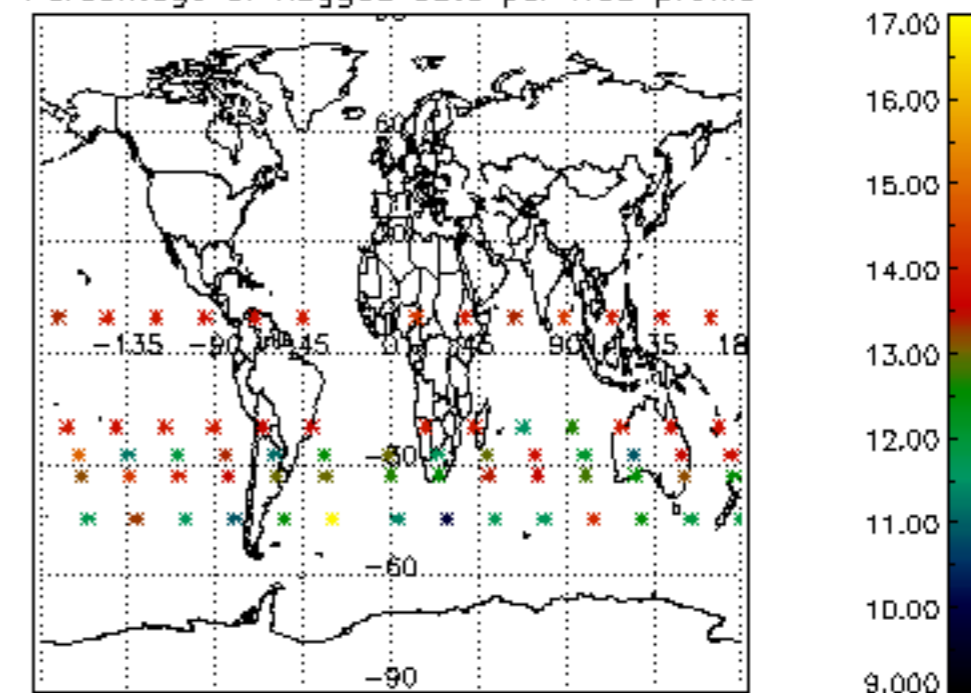
Percentage of flagged data per H2O profile

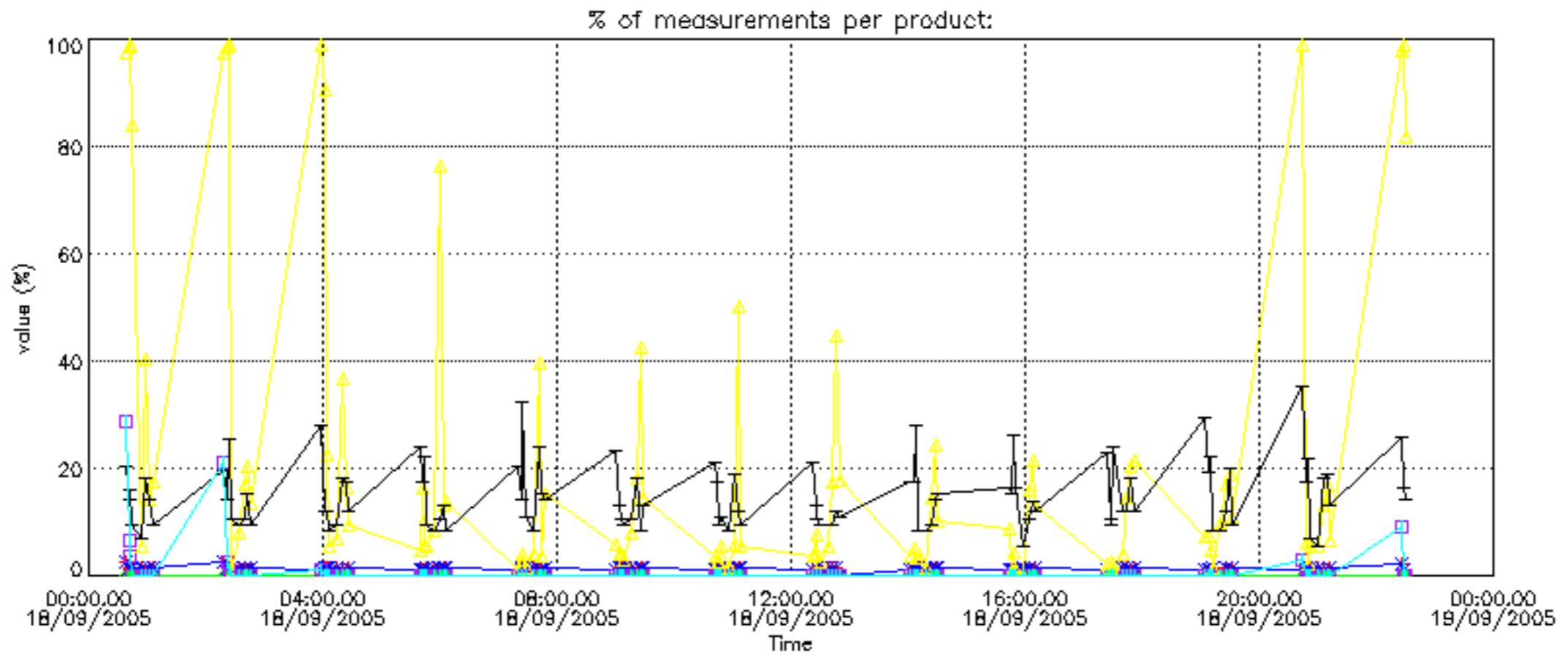


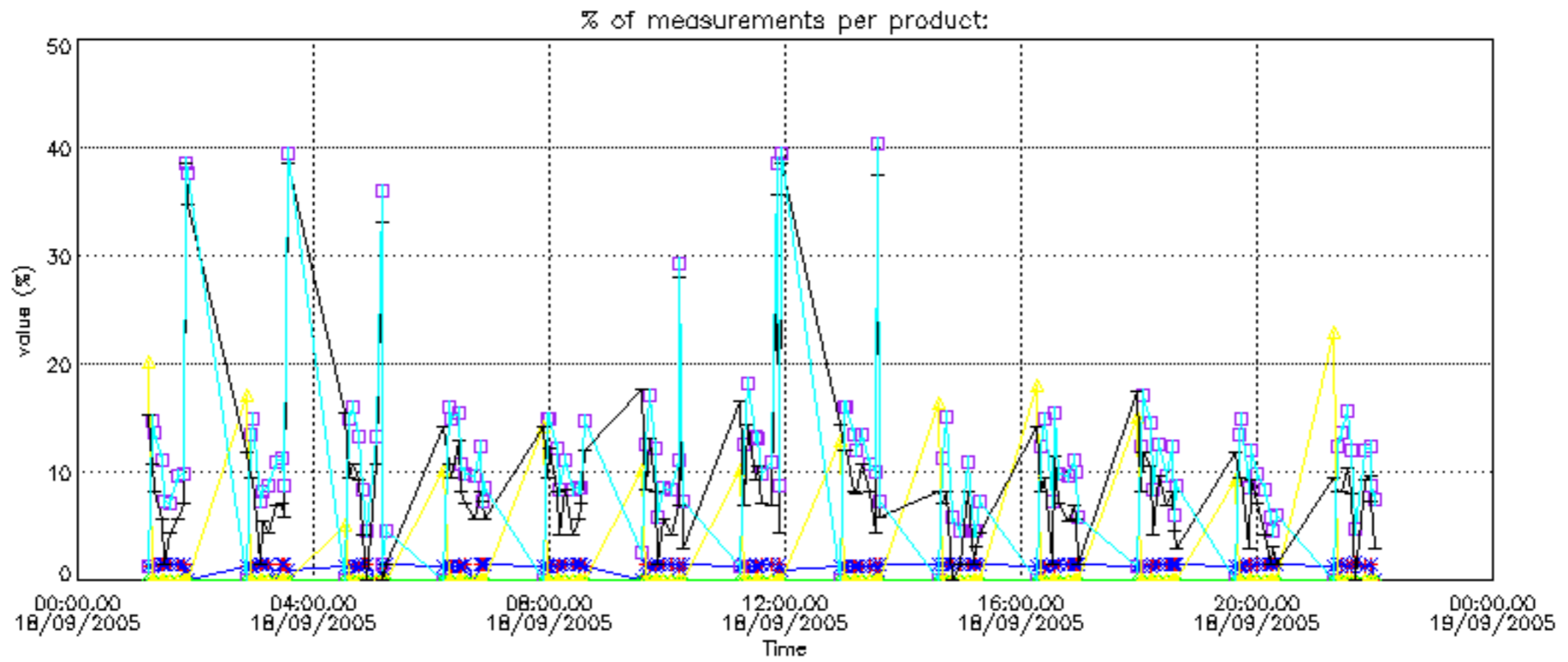
Percentage of flagged data per NO2 profile



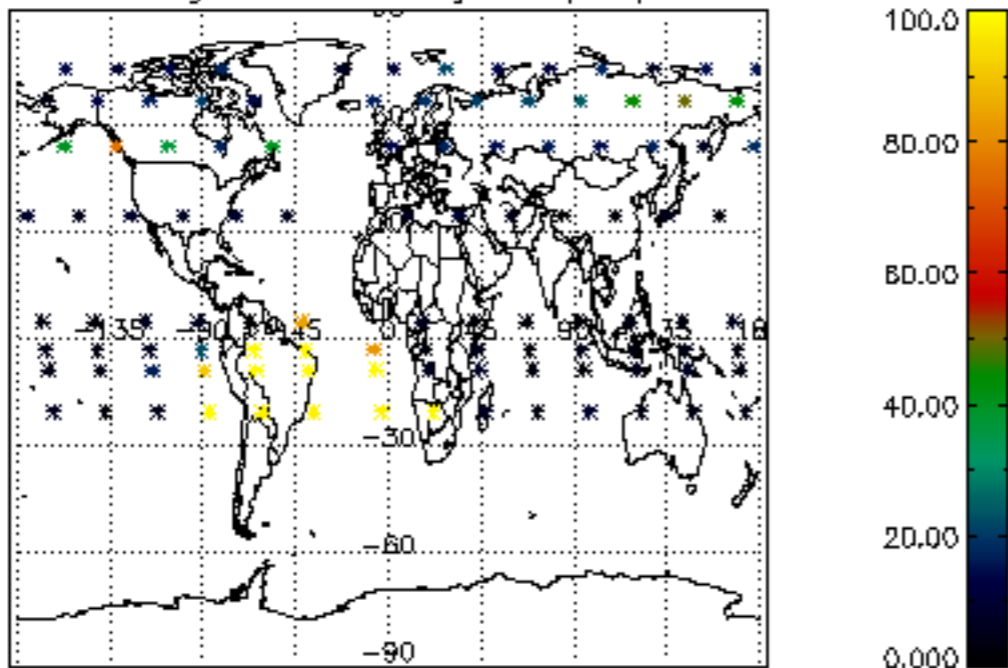
Percentage of flagged data per NO3 profile



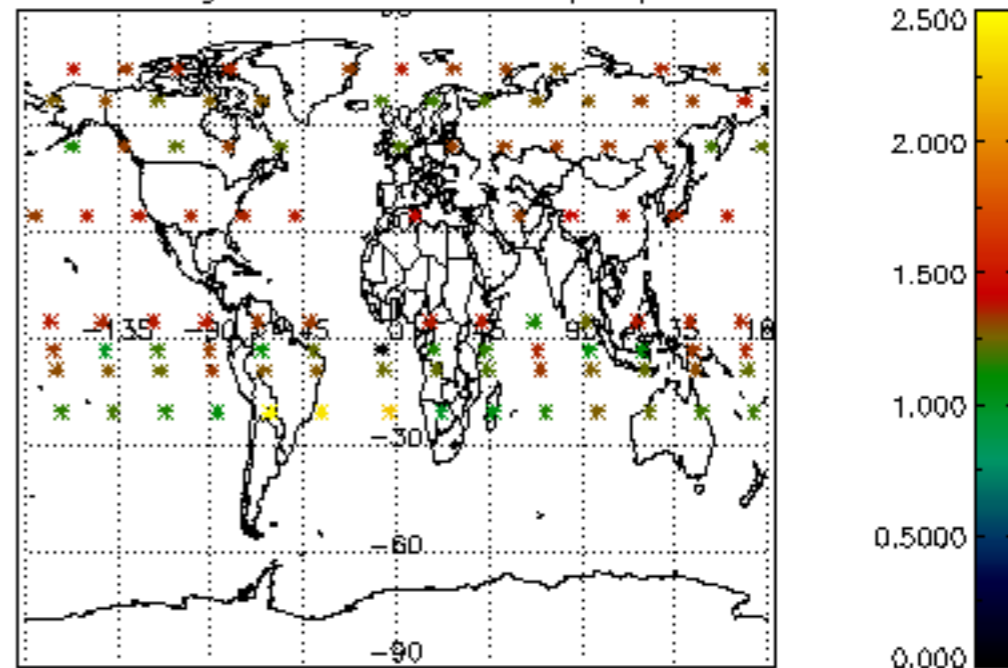




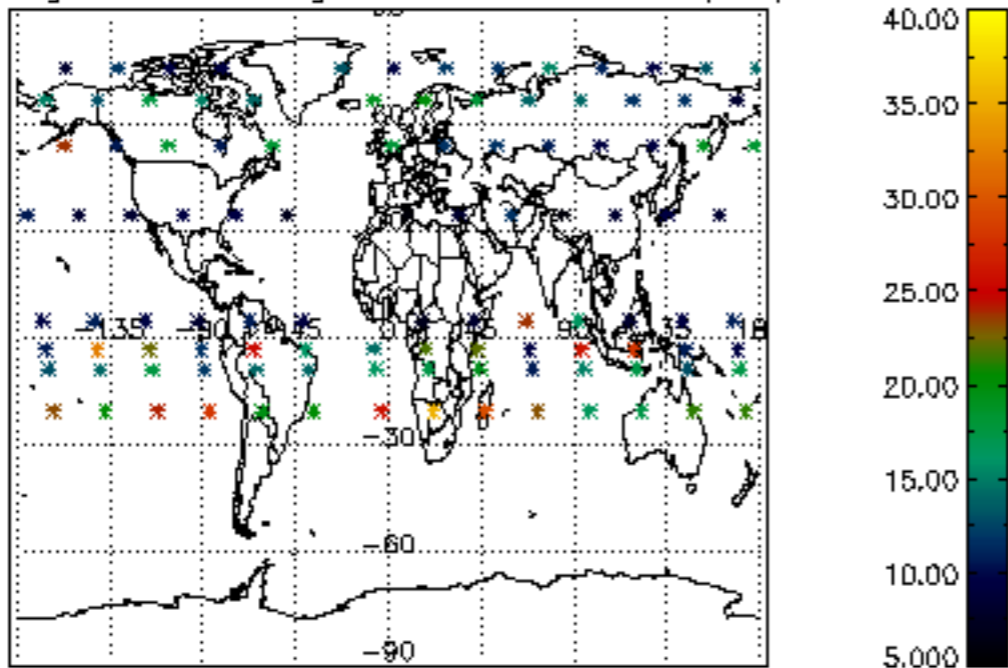
Percentage of cosmic ray hits per profile



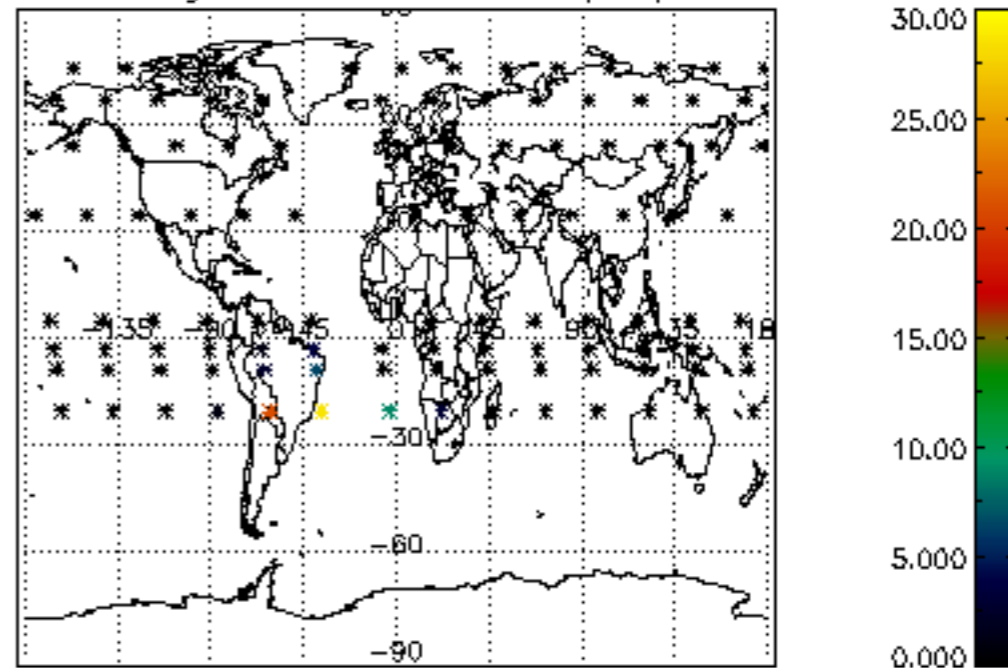
Percentage of datation errors per profile



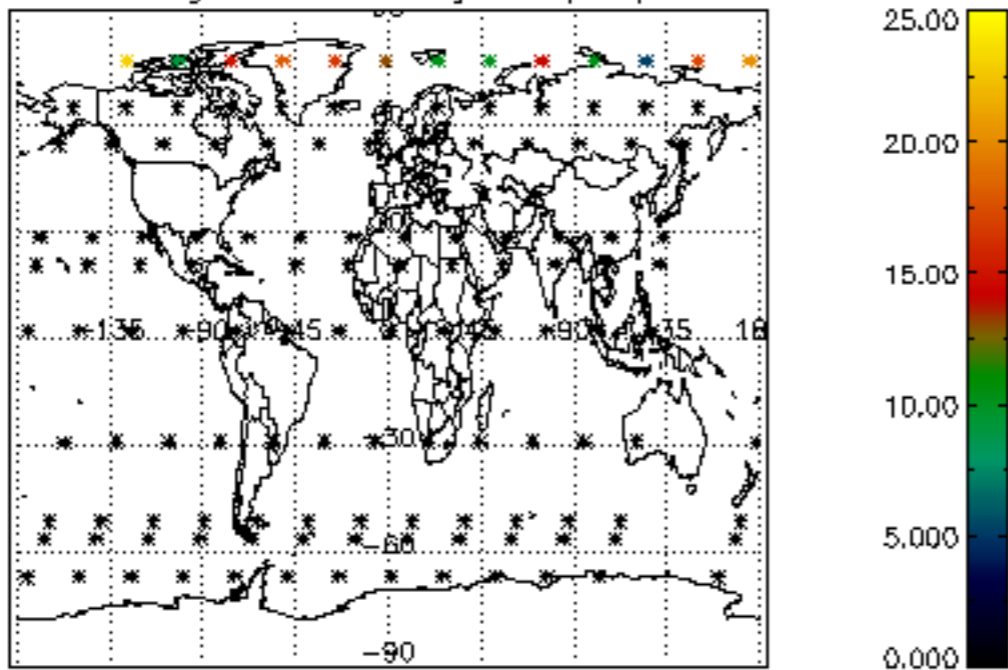
Percentage of star falling outside central band per profile



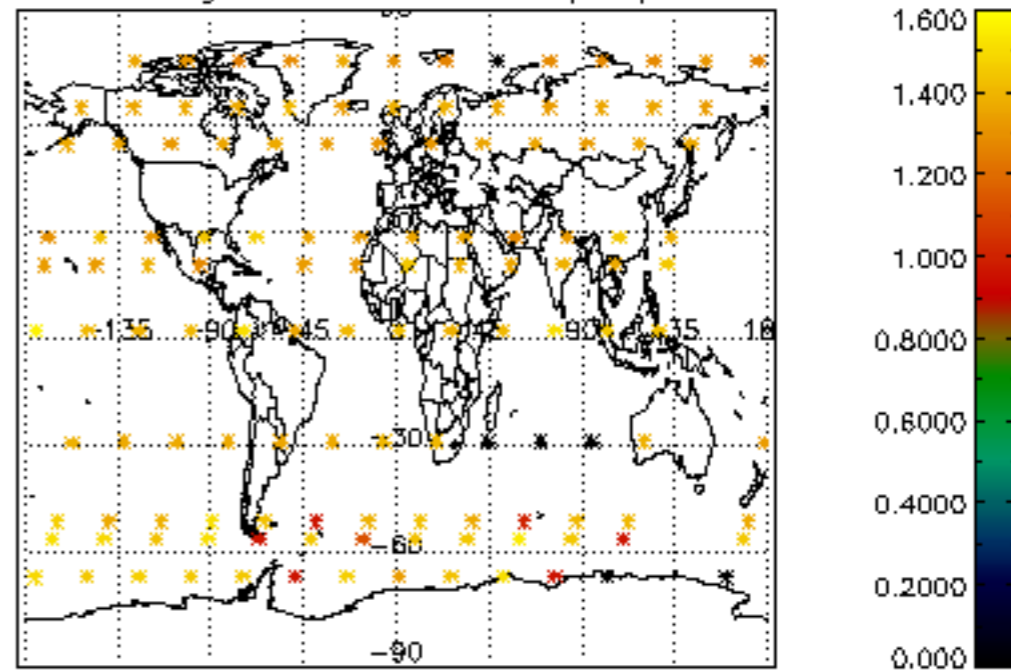
Percentage of saturation errors per profile



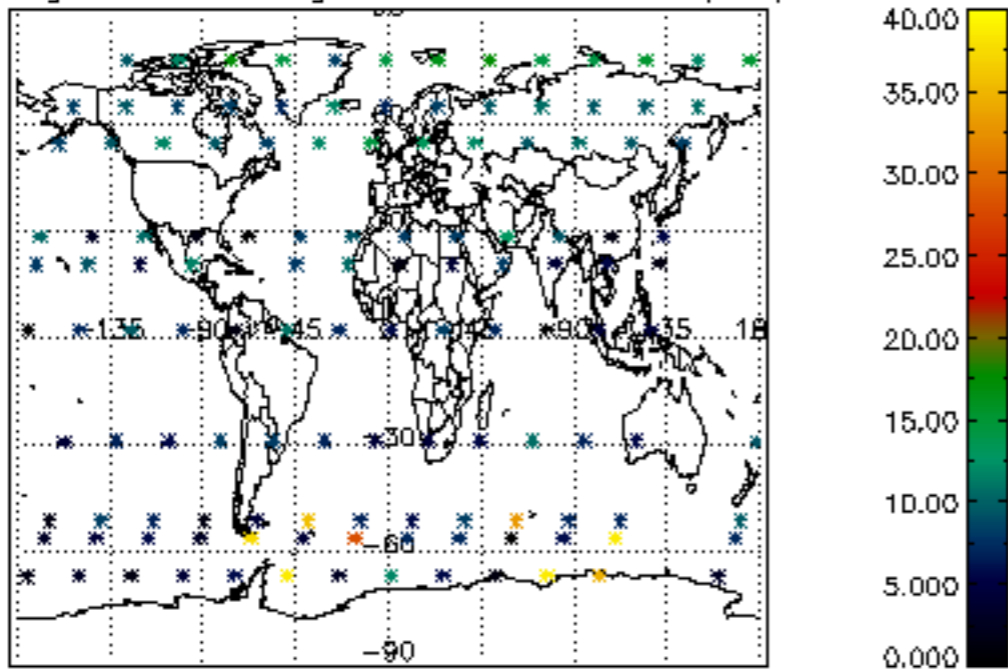
Percentage of cosmic ray hits per profile



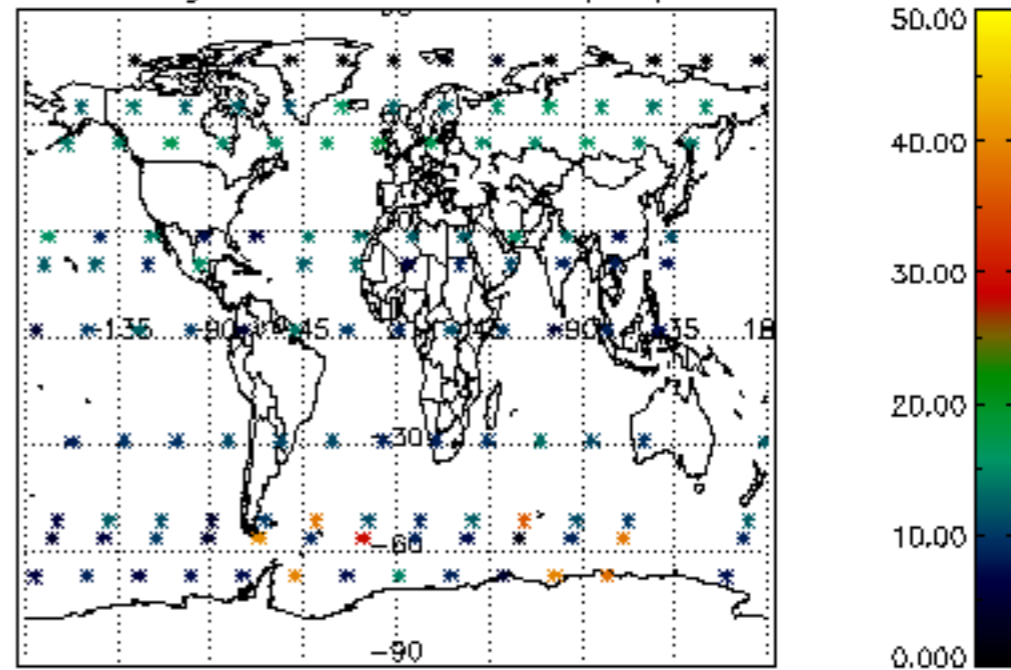
Percentage of datation errors per profile

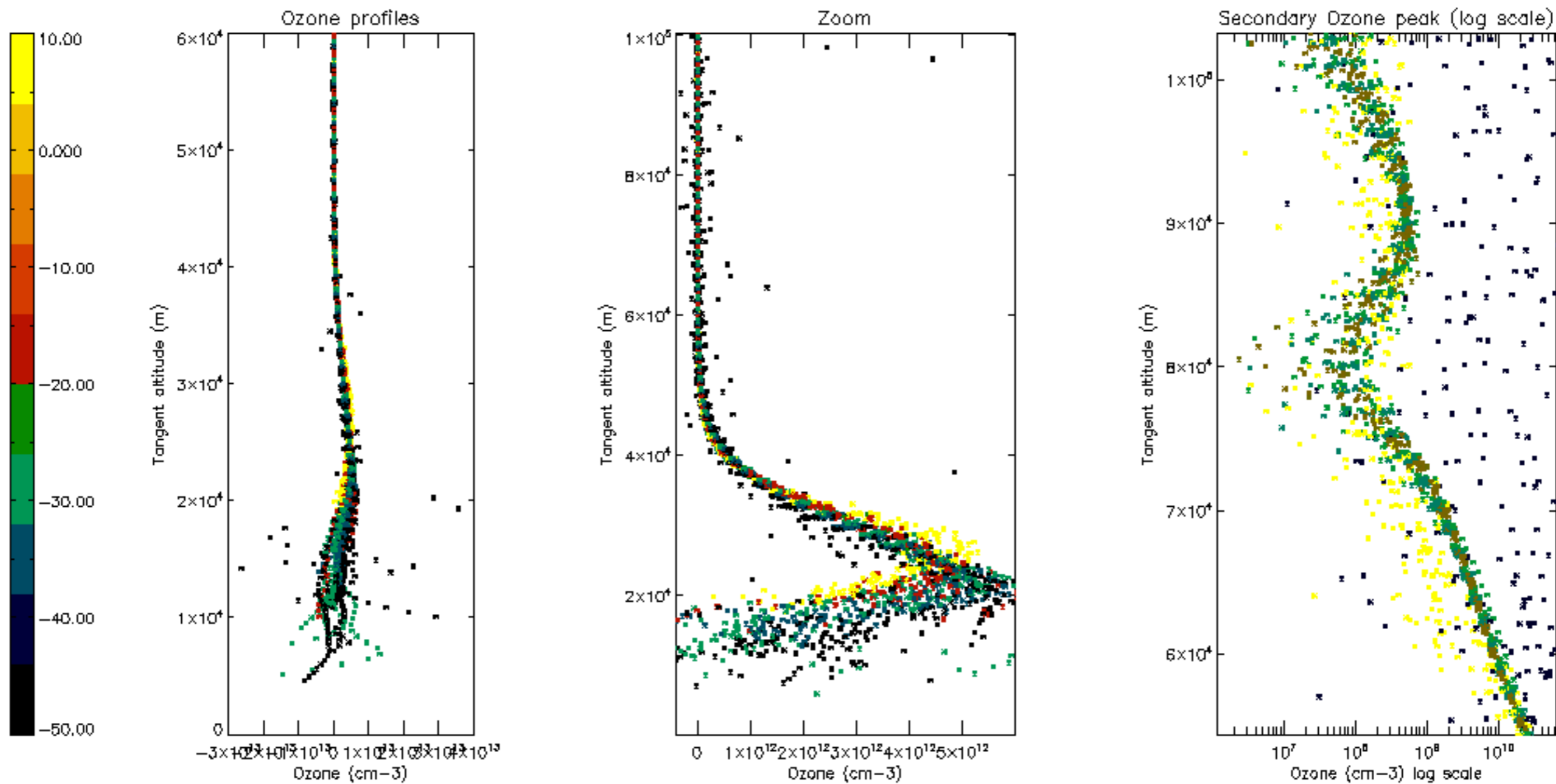


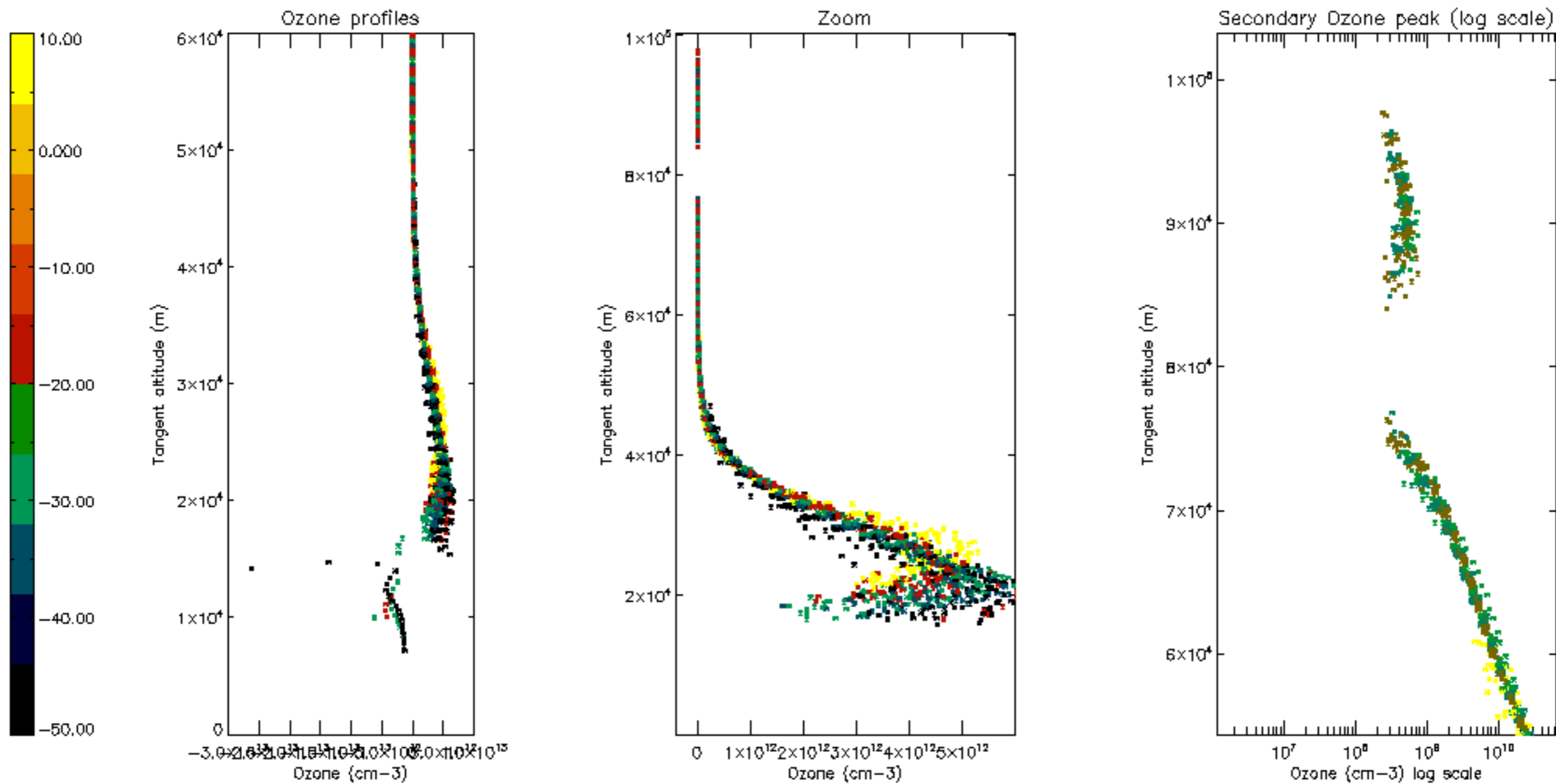
Percentage of star falling outside central band per profile

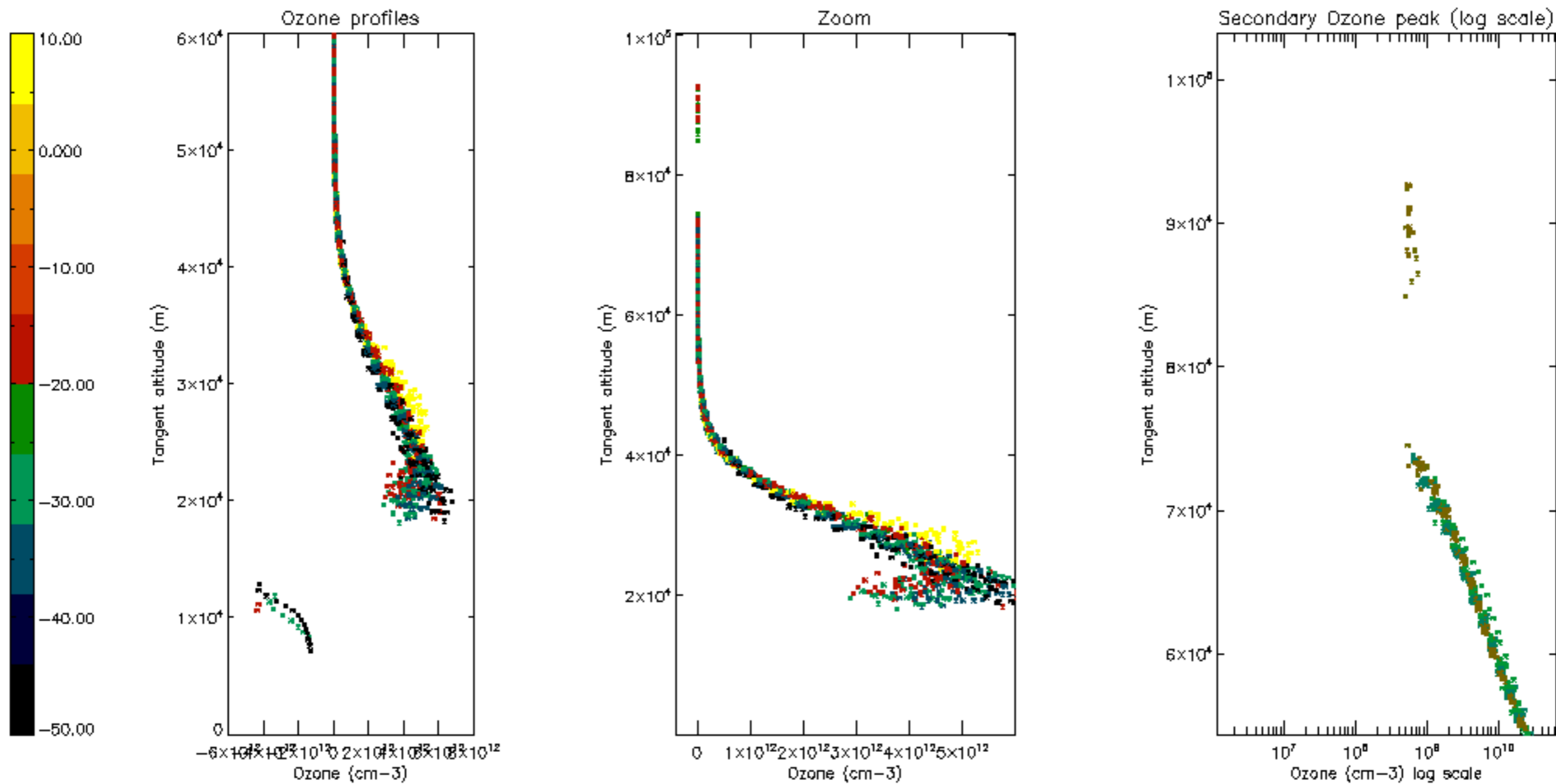


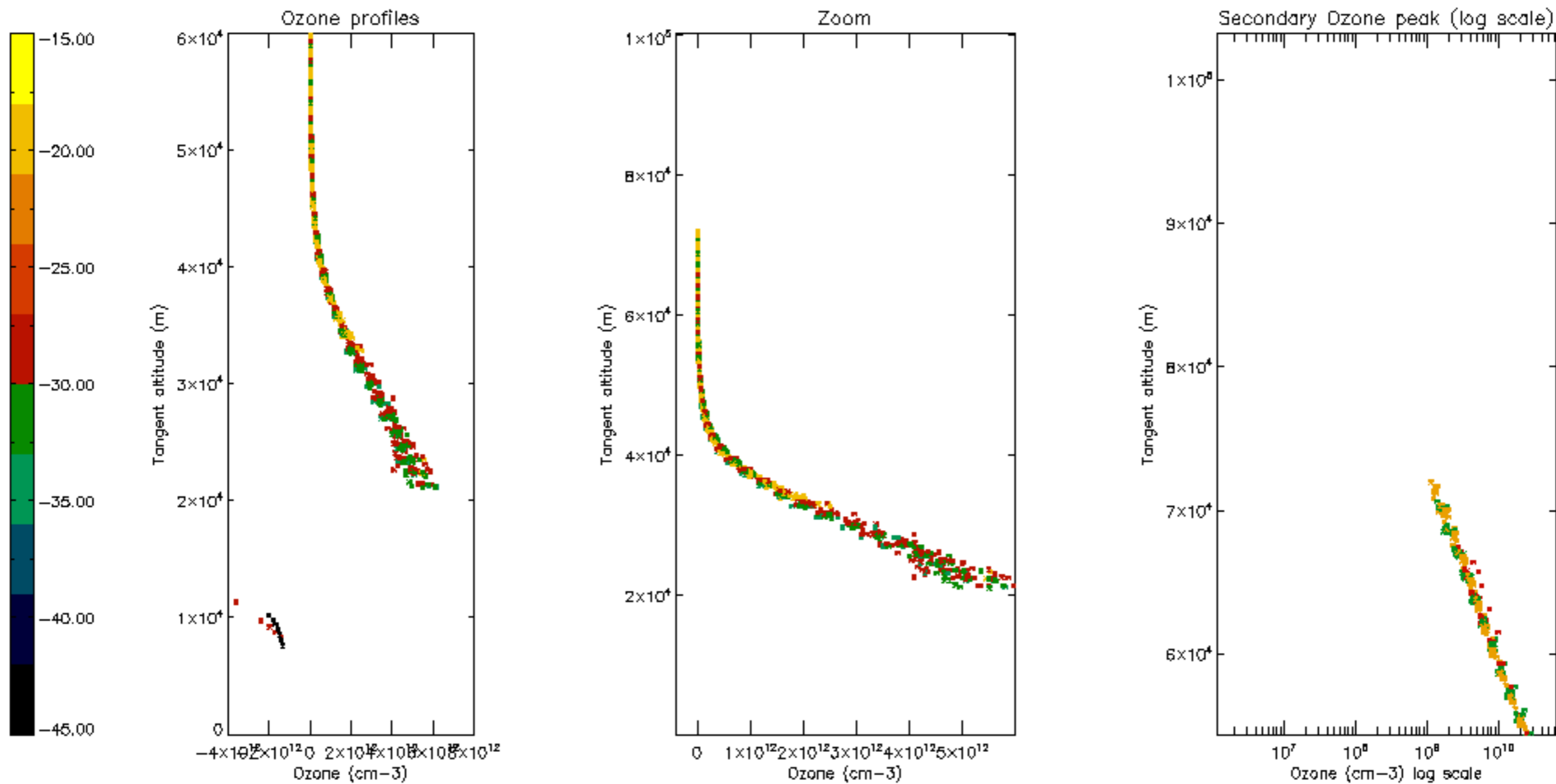
Percentage of saturation errors per profile

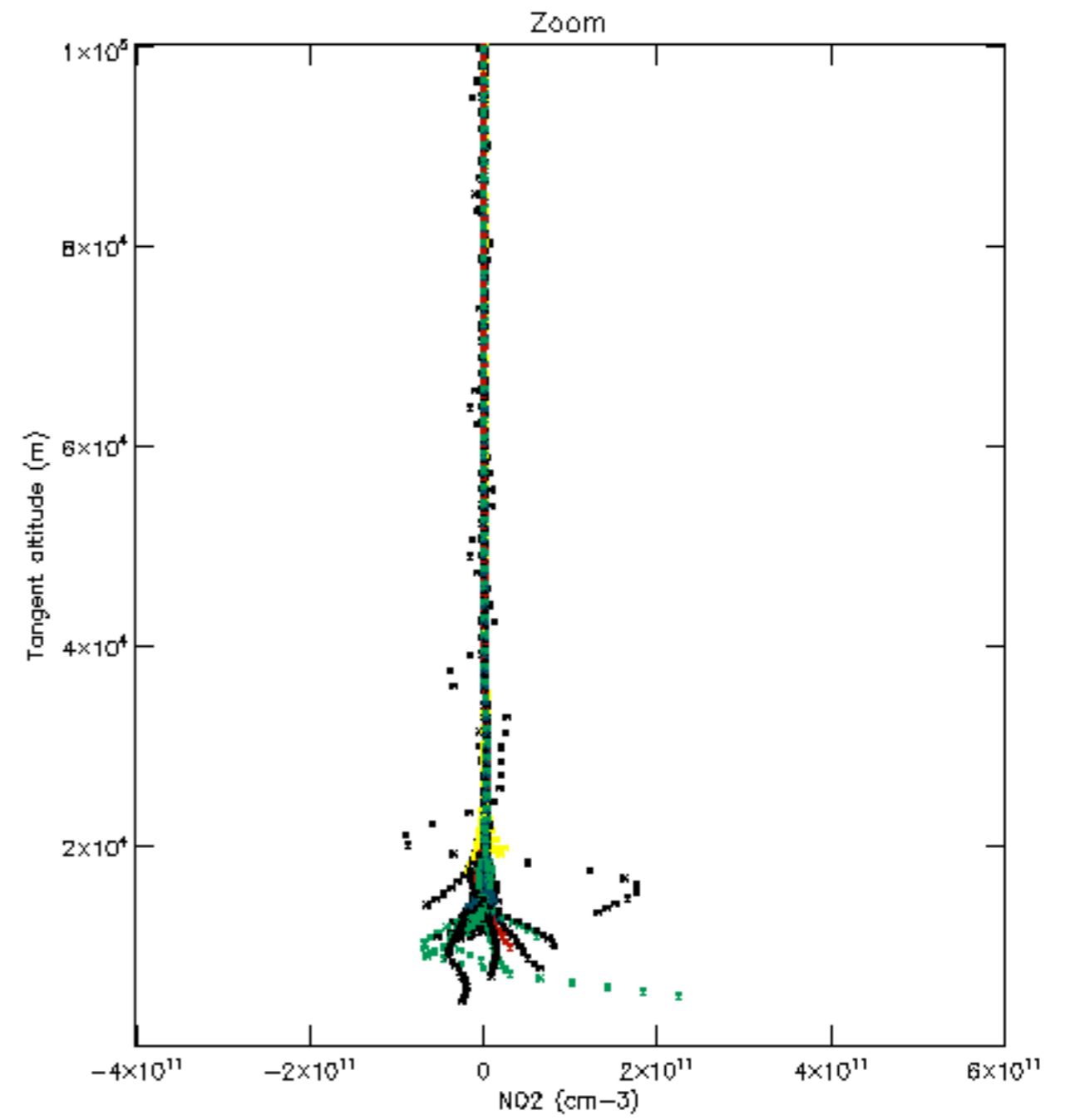
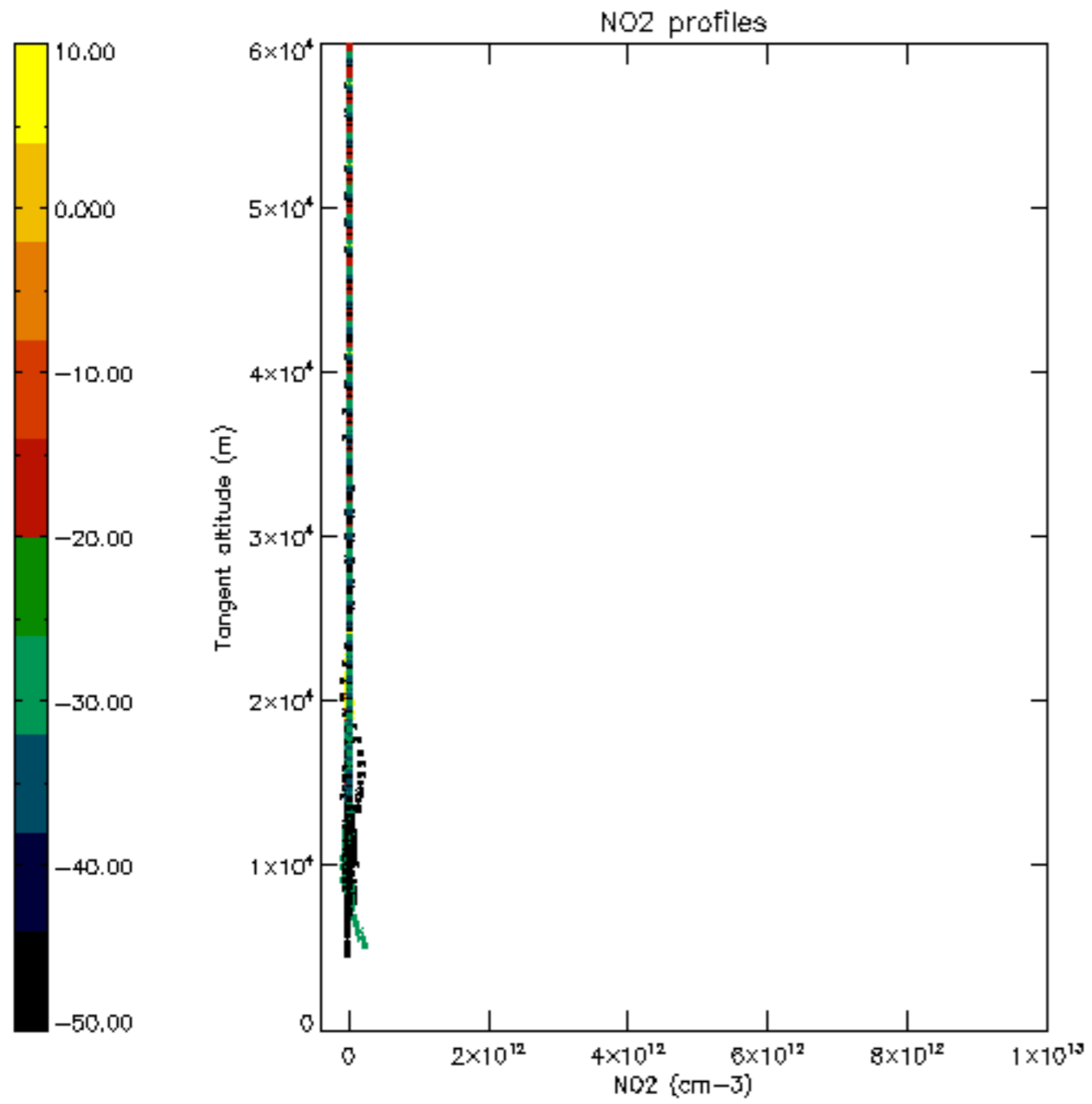


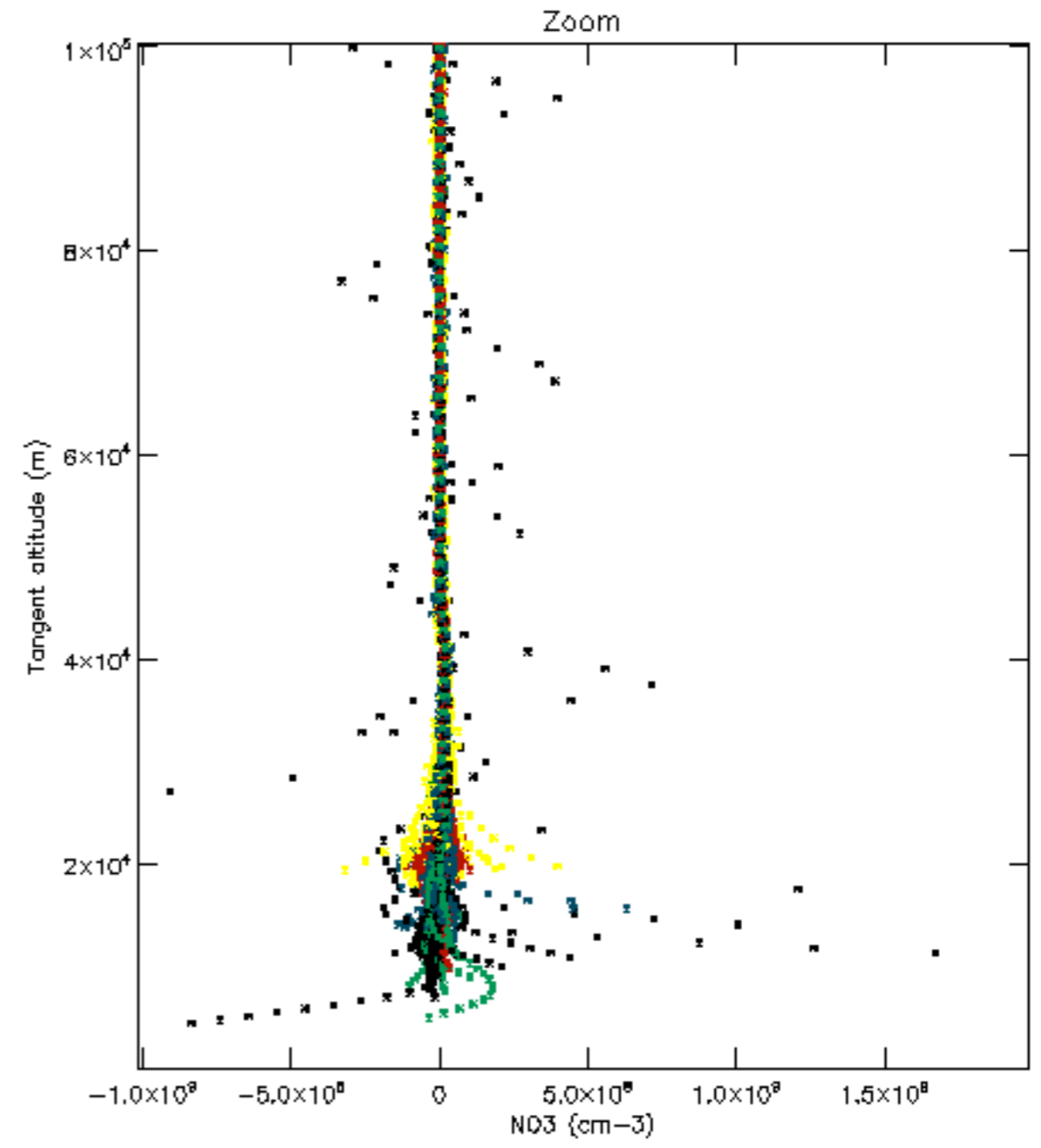
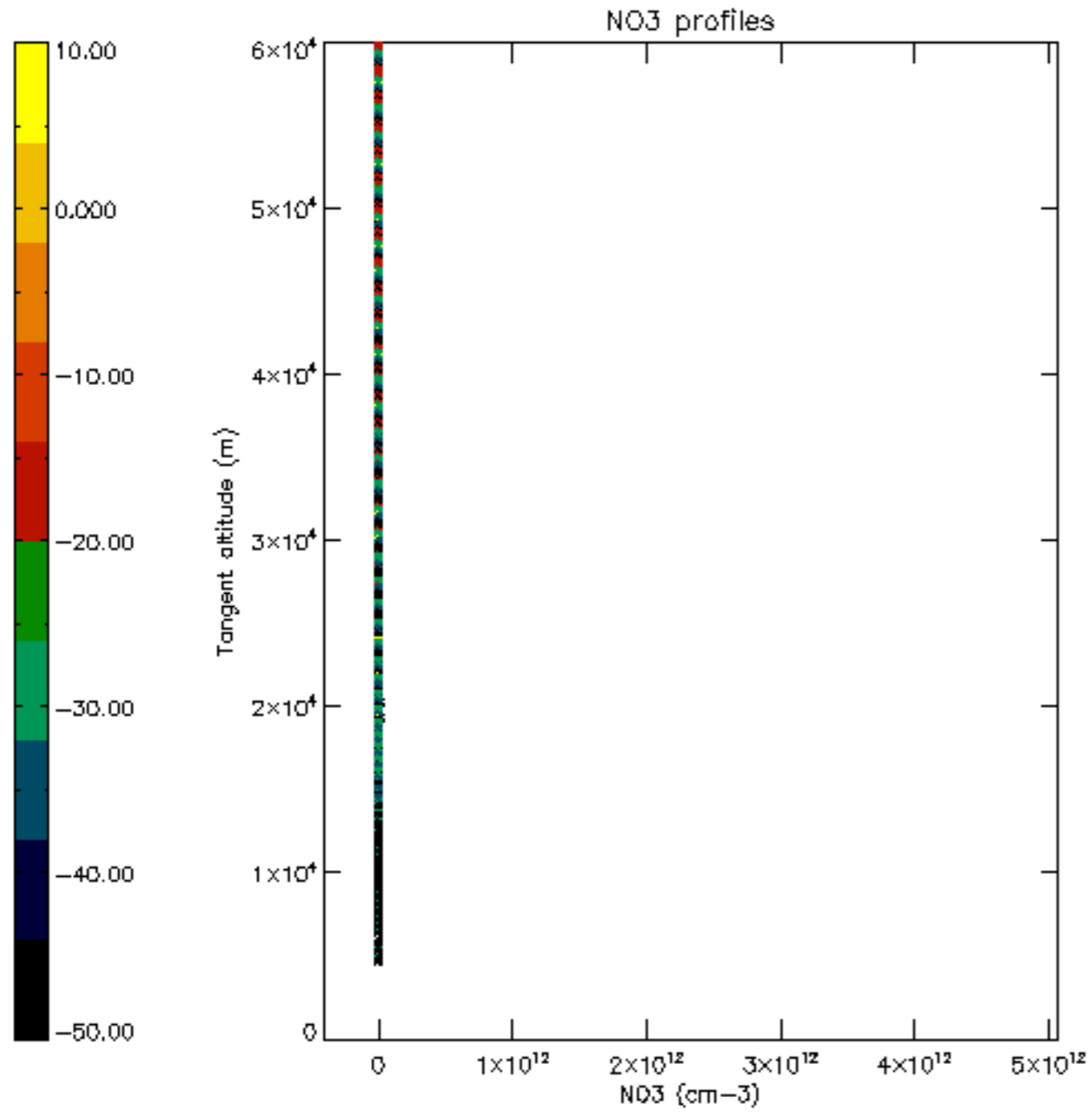


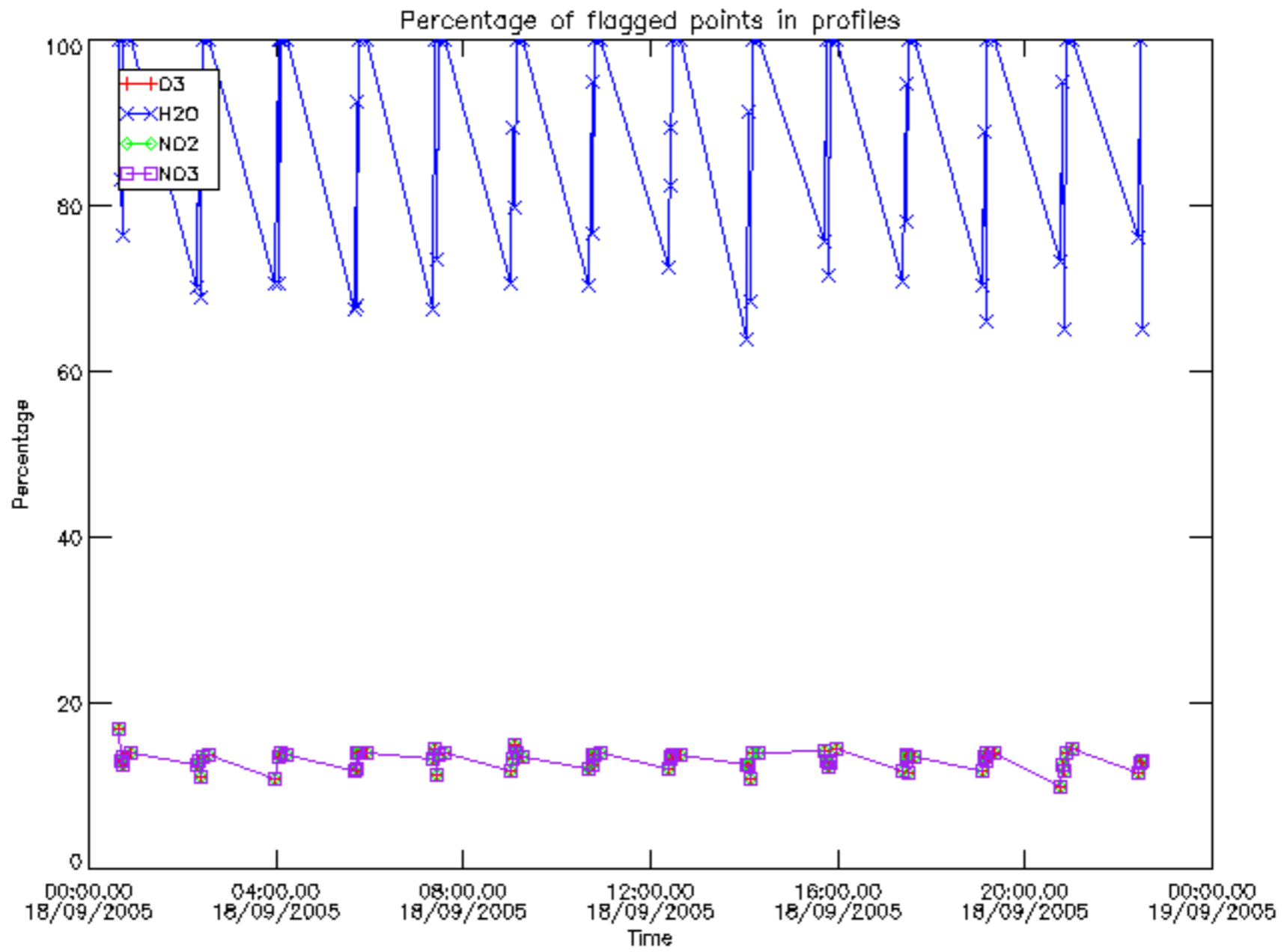




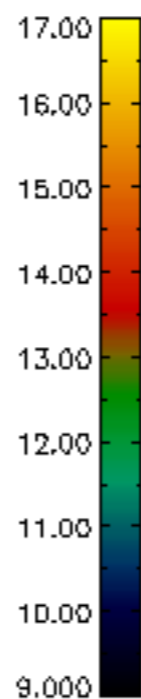
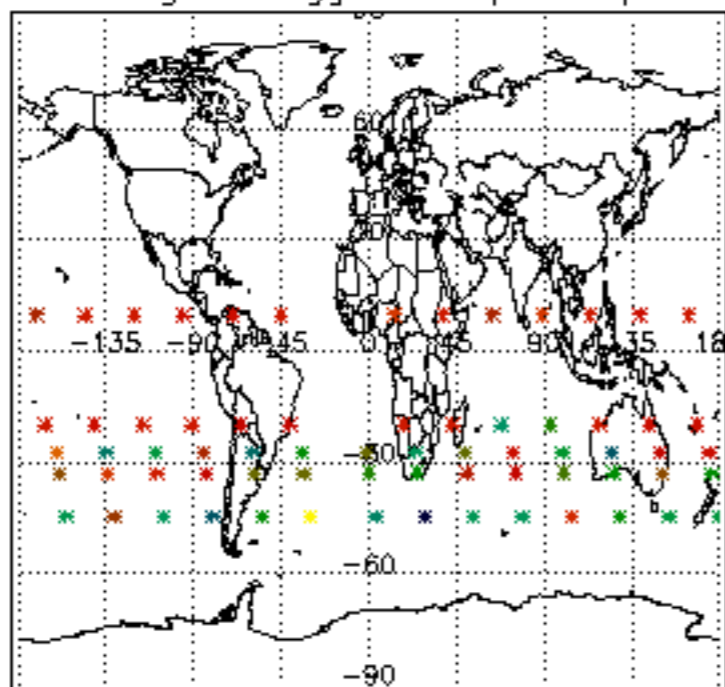




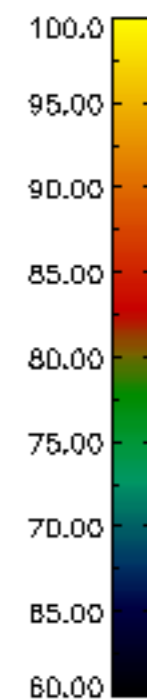
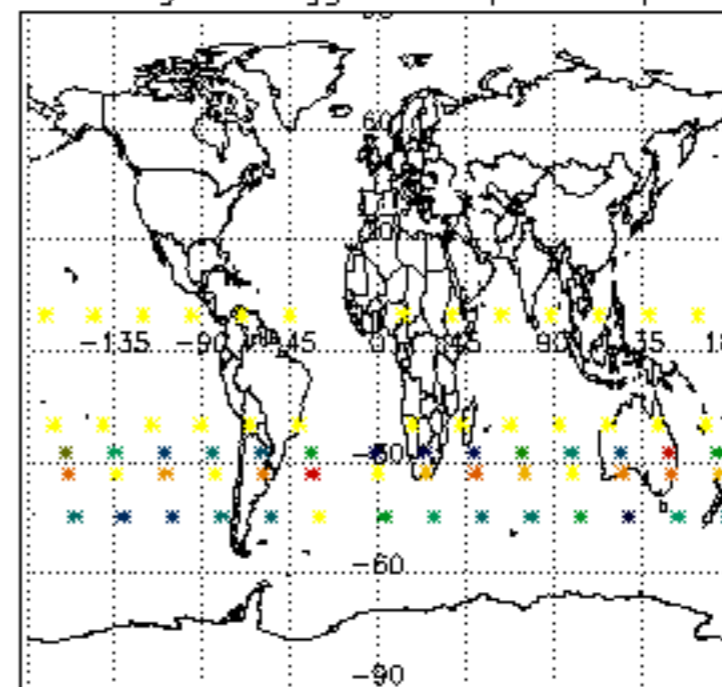




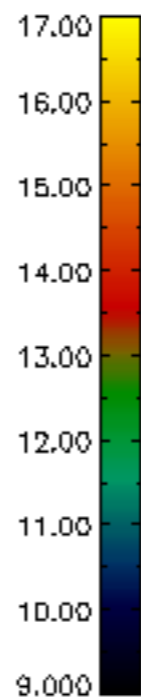
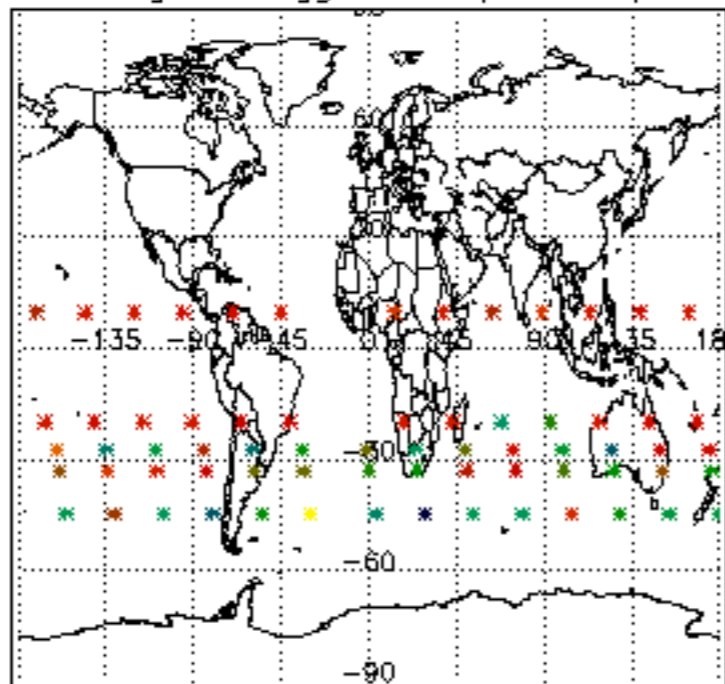
Percentage of flagged data per D3 profile



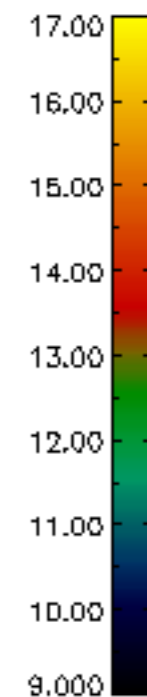
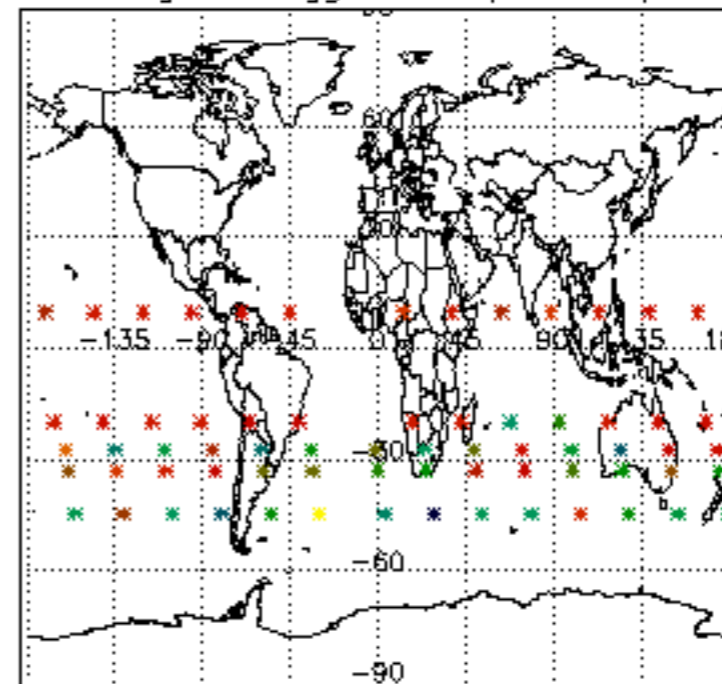
Percentage of flagged data per H2O profile

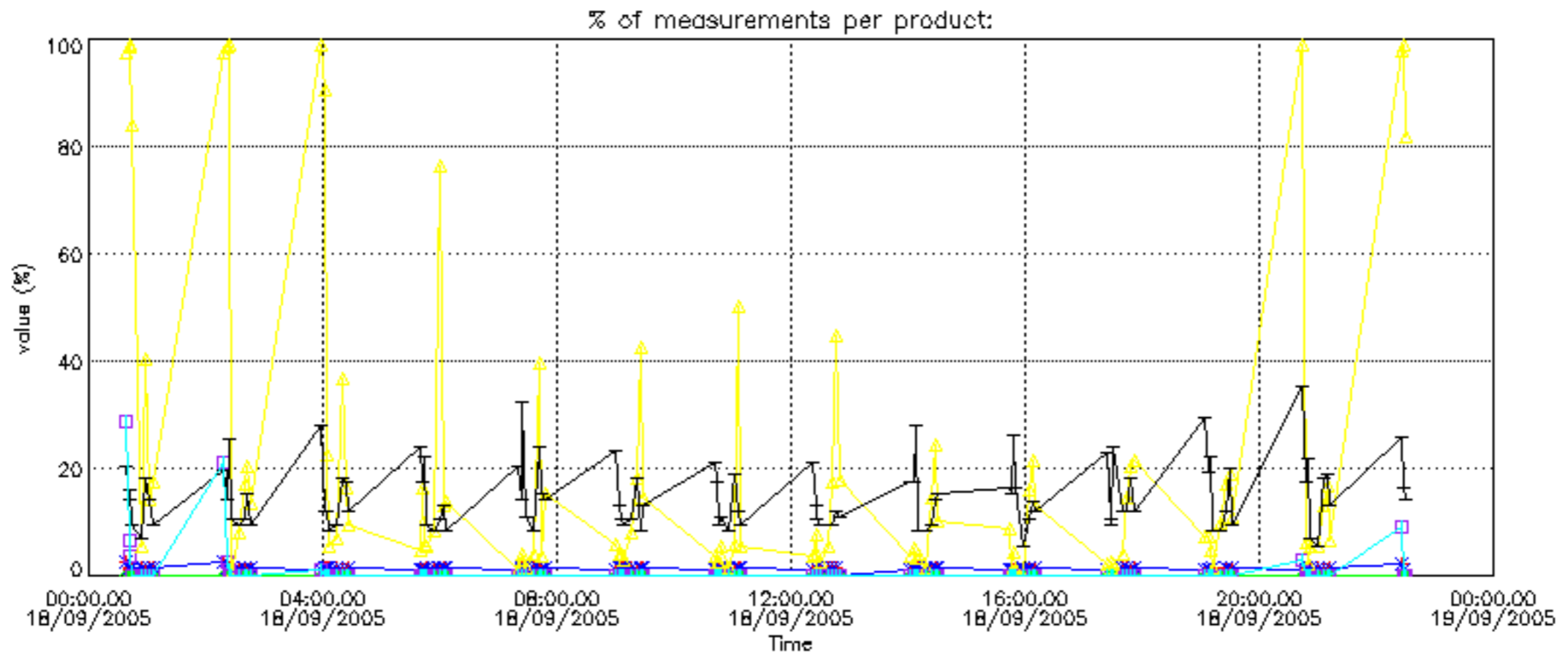


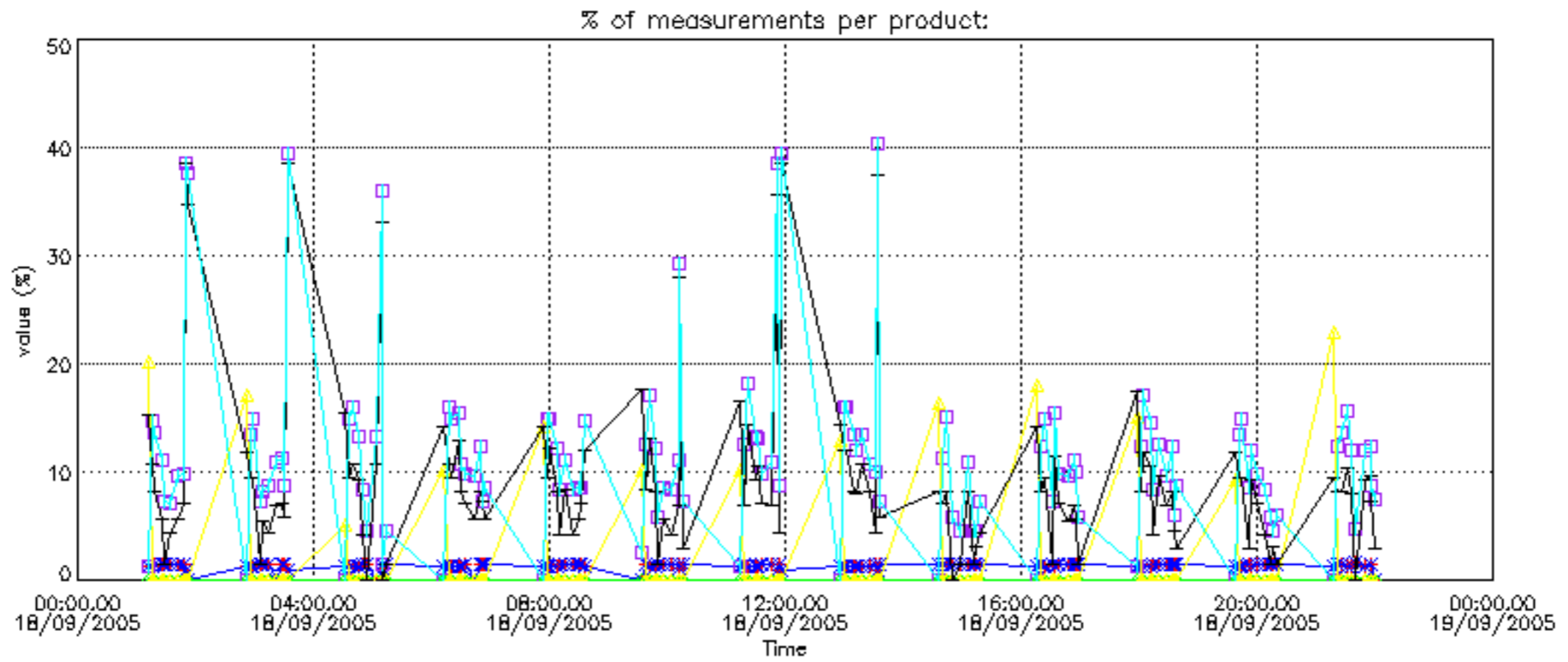
Percentage of flagged data per NO2 profile



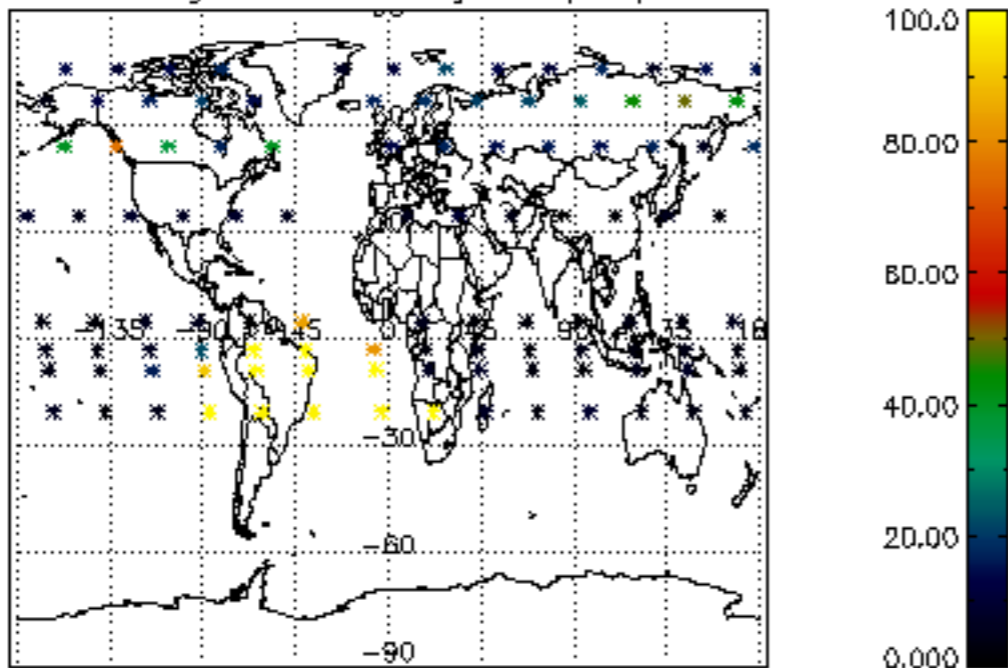
Percentage of flagged data per NO3 profile



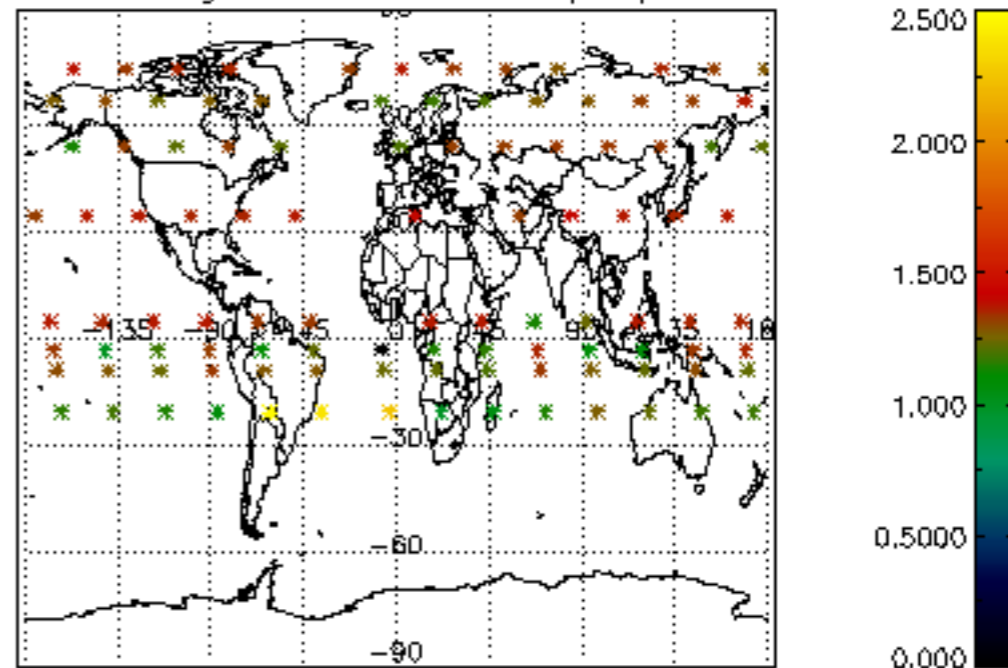




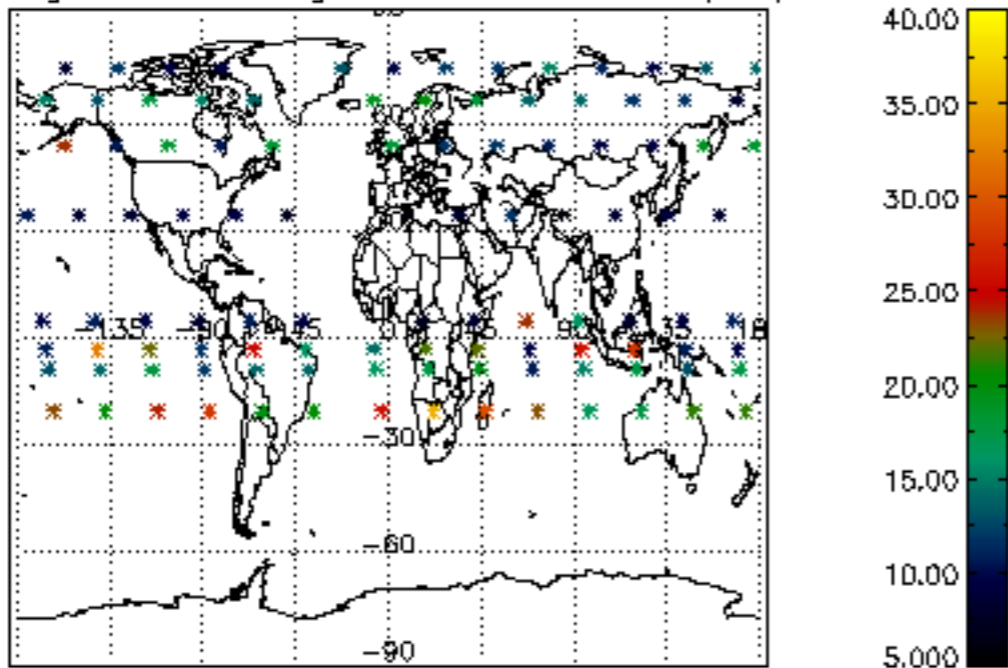
Percentage of cosmic ray hits per profile



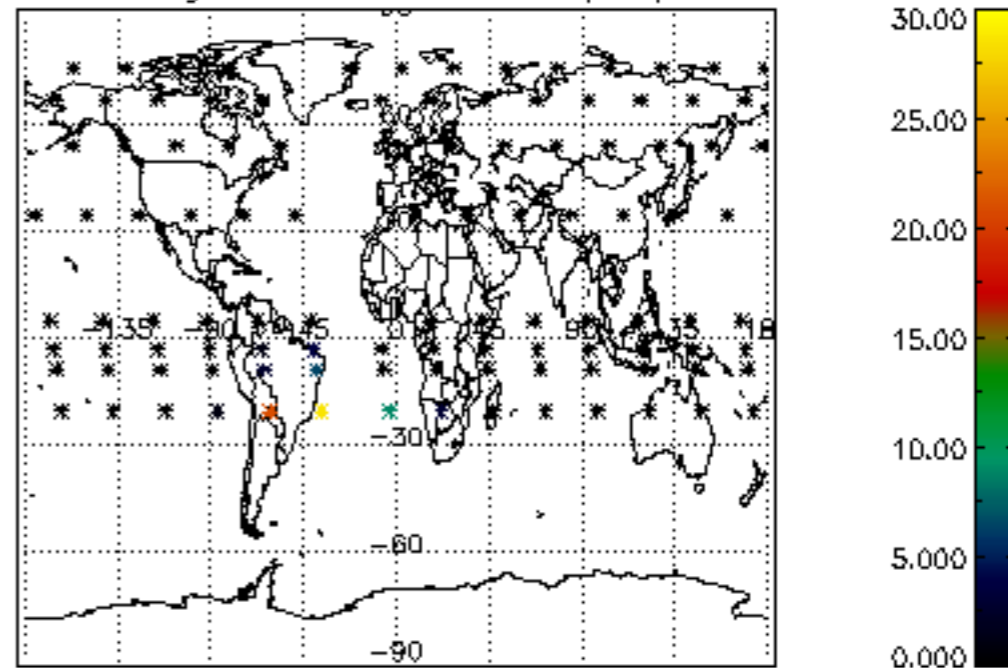
Percentage of datation errors per profile



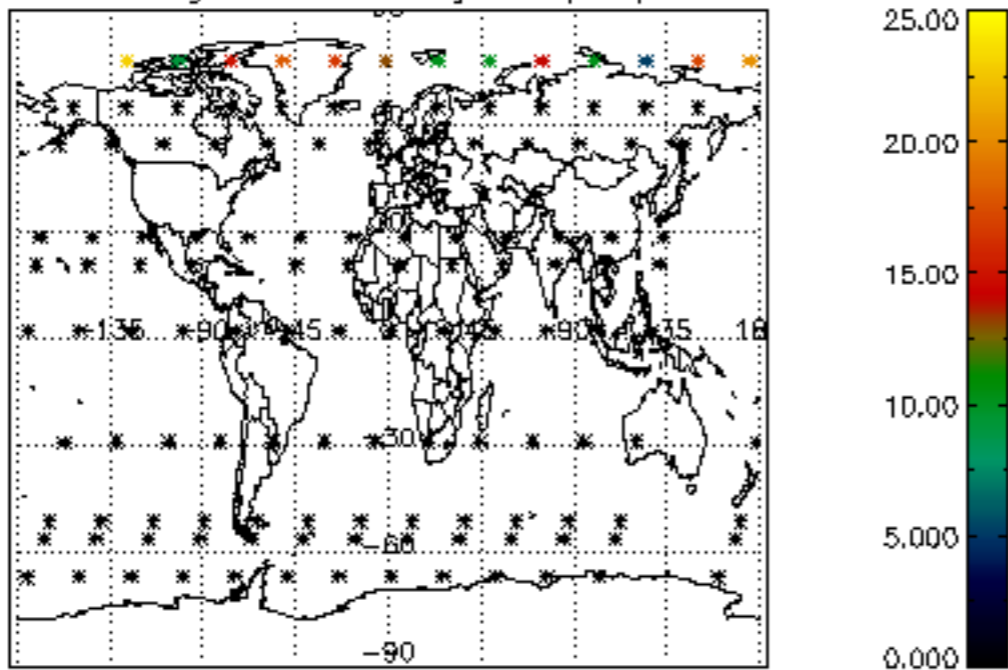
Percentage of star falling outside central band per profile



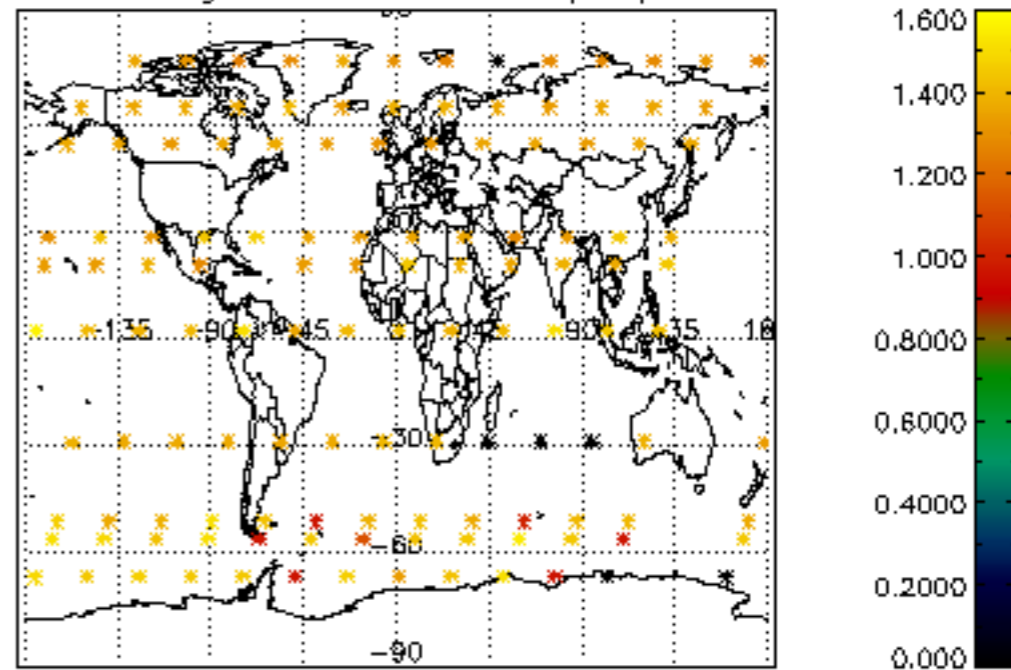
Percentage of saturation errors per profile



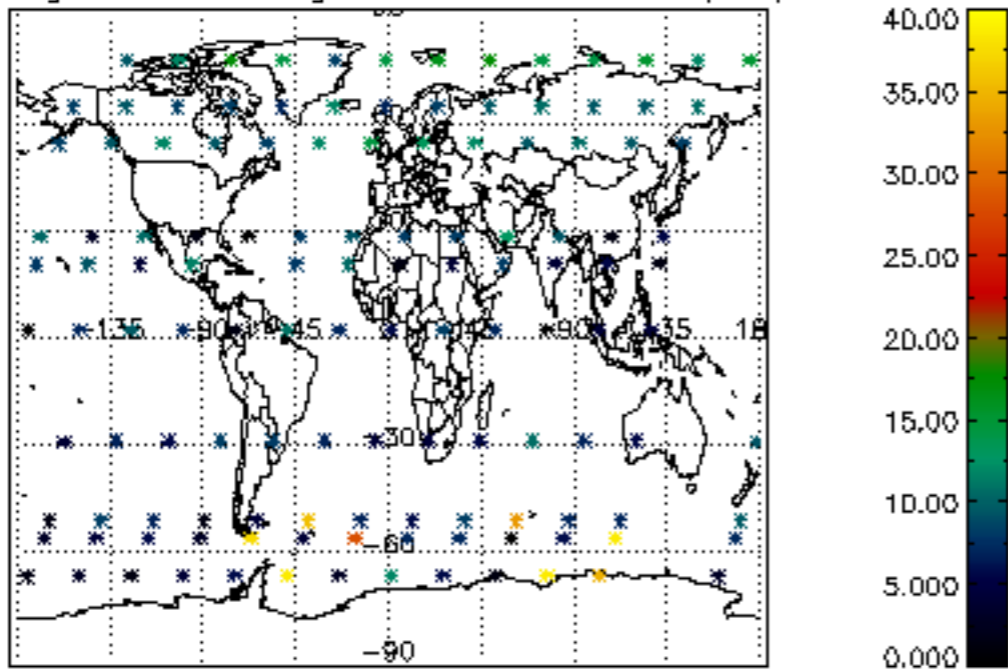
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

