

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

[2. Summary of processed GOM_NL_2P products](#)

[3. Level 2 Quality information per product](#)

[3.1 Plot of level 2 quality information per product \(time dependant\)](#)

[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	22APR2013 17:52:27
Data source version	GOMOS/6.01
Start time of products	29-03-2007 (29MAR2007 00:00:00)
Stop time of products	30-03-2007 (30MAR2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	216
Nb of prods with errors	0

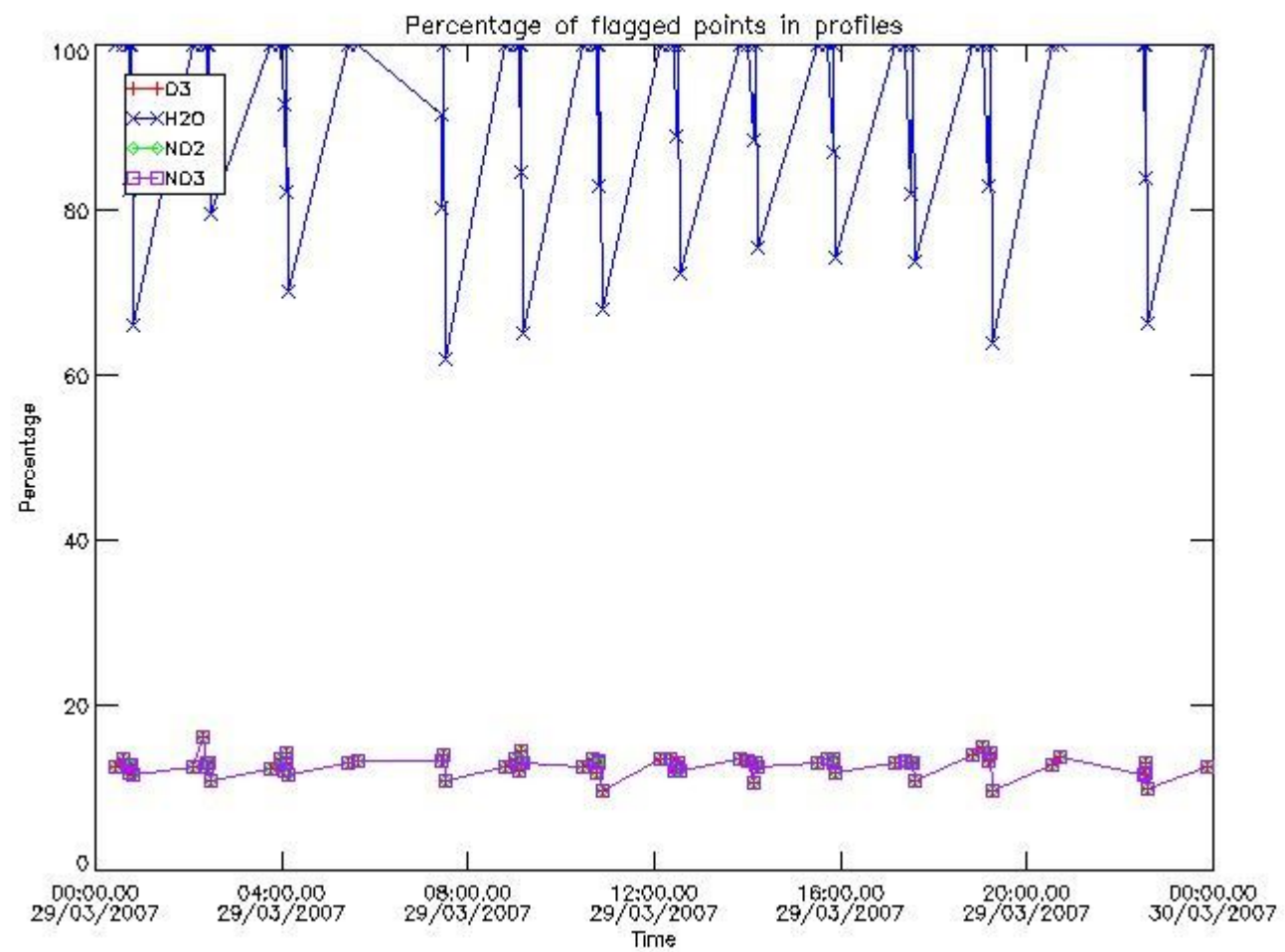
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20070329_000205_000000362056_00431_26537_4901.N1	29-MAR-2007 00:02:05	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	26537	No
2	GOM_NL__2PRFIN20070329_001715_000000382056_00431_26537_4902.N1	29-MAR-2007 00:17:15	Bright	38.000	61	8Eps Peg	2.1000	3900.0	76	26537	No
3	GOM_NL__2PRFIN20070329_002146_000000432056_00431_26537_4903.N1	29-MAR-2007 00:21:46	Twilight	42.500	154	22Bet Aqr	2.8990	5700.0	85	26537	No
4	GOM_NL__2PRFIN20070329_002422_000000402056_00431_26537_4904.N1	29-MAR-2007 00:24:22	Dark	40.000	142	49Del Cap	2.8500	8900.0	80	26537	No
5	GOM_NL__2PRFIN20070329_003633_000000382056_00431_26537_4905.N1	29-MAR-2007 00:36:33	Dark	37.500	45	Alp Pav	1.9400	26000.	75	26537	No
6	GOM_NL__2PRFIN20070329_004234_000000432056_00432_26538_4924.N1	29-MAR-2007 00:42:34	Dark	43.000	141	Bet Ara	2.8400	4600.0	86	26538	No
7	GOM_NL__2PRFIN20070329_004401_000000402056_00432_26538_4925.N1	29-MAR-2007 00:44:01	Dark	40.000	43	Alp TrA	1.9100	4250.0	80	26538	No
8	GOM_NL__2PRFIN20070329_004547_000000402056_00432_26538_4926.N1	29-MAR-2007 00:45:47	Dark	40.000	134	Bet TrA	2.8100	6600.0	80	26538	No
9	GOM_NL__2PRFIN20070329_004828_000000452056_00432_26538_4927.N1	29-MAR-2007 00:48:28	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	26538	No
10	GOM_NL__2PRFIN20070329_005056_000000382056_00432_26538_4928.N1	29-MAR-2007 00:50:56	Straylight	38.000	12	Alp1Cru	0.77500	30000.	76	26538	No
11	GOM_NL__2PRFIN20070329_005221_000000432056_00432_26538_4929.N1	29-MAR-2007 00:52:21	Straylight	42.500	26	Gam Cru	1.6240	2900.0	85	26538	No
12	GOM_NL__2PRFIN20070329_005415_000000402056_00432_26538_4930.N1	29-MAR-2007 00:54:15	Straylight	40.000	64	Gam Cen	2.2000	10600.	80	26538	No
13	GOM_NL__2PRFIN20070329_010218_000000412056_00432_26538_4931.N1	29-MAR-2007 01:02:18	Twi_and_stray	40.500	171	2Eps Crv	3.0010	4250.0	81	26538	No
14	GOM_NL__2PRFIN20070329_011515_000000382056_00432_26538_4932.N1	29-MAR-2007 01:15:15	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	26538	No
15	GOM_NL__2PRFIN20070329_012207_000000382056_00432_26538_4933.N1	29-MAR-2007 01:22:07	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	26538	No
16	GOM_NL__2PRFIN20070329_012526_000000362056_00432_26538_4934.N1	29-MAR-2007 01:25:26	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	26538	No
17	GOM_NL__2PRFIN20070329_012658_000000382056_00432_26538_4935.N1	29-MAR-2007 01:26:58	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	26538	No
18	GOM_NL__2PRFIN20070329_013455_000000352056_00432_26538_4936.N1	29-MAR-2007 01:34:55	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	26538	No
19	GOM_NL__2PRFIN20070329_014241_000000362056_00432_26538_4937.N1	29-MAR-2007 01:42:41	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	26538	No
20	GOM_NL__2PRFIN20070329_015751_000000402056_00432_26538_4938.N1	29-MAR-2007 01:57:51	Bright	39.500	61	8Eps Peg	2.1000	3900.0	79	26538	No
21	GOM_NL__2PRFIN20070329_020222_000000422056_00432_26538_4939.N1	29-MAR-2007 02:02:22	Twilight	42.000	154	22Bet Aqr	2.8990	5700.0	84	26538	No
22	GOM_NL__2PRFIN20070329_020459_000000412056_00432_26538_4940.N1	29-MAR-2007 02:04:59	Dark	40.500	142	49Del Cap	2.8500	8900.0	81	26538	No
23	GOM_NL__2PRFIN20070329_021709_000000412056_00432_26538_4941.N1	29-MAR-2007 02:17:09	Dark	41.000	45	Alp Pav	1.9400	26000.	82	26538	No
24	GOM_NL__2PRFIN20070329_022311_000000412056_00433_26539_4938.N1	29-MAR-2007 02:23:11	Dark	41.000	141	Bet Ara	2.8400	4600.0	82	26539	No
25	GOM_NL__2PRFIN20070329_022437_000000402056_00433_26539_4939.N1	29-MAR-2007 02:24:37	Dark	39.500	43	Alp TrA	1.9100	4250.0	79	26539	No
26	GOM_NL__2PRFIN20070329_022623_000000402056_00433_26539_4940.N1	29-MAR-2007 02:26:23	Dark	39.500	134	Bet TrA	2.8100	6600.0	79	26539	No
27	GOM_NL__2PRFIN20070329_022904_000000472056_00433_26539_4941.N1	29-MAR-2007 02:29:04	Dark	47.000	4	Alp1Cen	-0.010000	5800.0	94	26539	No
28	GOM_NL__2PRFIN20070329_023132_000000432056_00433_26539_4942.N1	29-MAR-2007 02:31:32	Straylight	42.500	12	Alp1Cru	0.77500	30000.	85	26539	No
29	GOM_NL__2PRFIN20070329_023257_000000462056_00433_26539_4943.N1	29-MAR-2007 02:32:57	Straylight	45.500	26	Gam Cru	1.6240	2900.0	91	26539	No
30	GOM_NL__2PRFIN20070329_023451_000000402056_00433_26539_4944.N1	29-MAR-2007 02:34:51	Straylight	40.000	64	Gam Cen	2.2000	10600.	80	26539	No
31	GOM_NL__2PRFIN20070329_024254_000000442056_00433_26539_4945.N1	29-MAR-2007 02:42:54	Twi_and_stray	43.500	171	2Eps Crv	3.0010	4250.0	87	26539	No
32	GOM_NL__2PRFIN20070329_025551_000000372056_00433_26539_4946.N1	29-MAR-2007 02:55:51	Bright	36.500	96	68Del Leo	2.5600	9300.0	73	26539	No
33	GOM_NL__2PRFIN20070329_030243_000000362056_00433_26539_4947.N1	29-MAR-2007 03:02:43	Bright	36.000	174	52Psi UMa	3.0040	4400.0	72	26539	No
34	GOM_NL__2PRFIN20070329_030602_000000362056_00433_26539_4948.N1	29-MAR-2007 03:06:02	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	26539	No
35	GOM_NL__2PRFIN20070329_030734_000000362056_00433_26539_4949.N1	29-MAR-2007 03:07:34	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	26539	No
36	GOM_NL__2PRFIN20070329_031531_000000362056_00433_26539_4950.N1	29-MAR-2007 03:15:31	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	26539	No
37	GOM_NL__2PRFIN20070329_032317_000000542056_00433_26539_4951.N1	29-MAR-2007 03:23:17	Bright	53.500	89	5Alp Cep	2.4510	8000.0	107	26539	No
38	GOM_NL__2PRFIN20070329_033827_000000422056_00433_26539_4952.N1	29-MAR-2007 03:38:27	Bright	42.000	61	8Eps Peg	2.1000	3900.0	84	26539	No
39	GOM_NL__2PRFIN20070329_034258_000000422056_00433_26539_4953.N1	29-MAR-2007 03:42:58	Twilight	41.500	154	22Bet Aqr	2.8990	5700.0	83	26539	No
40	GOM_NL__2PRFIN20070329_034535_000000422056_00433_26539_4954.N1	29-MAR-2007 03:45:35	Dark	41.500	142	49Del Cap	2.8500	8900.0	83	26539	No
41	GOM_NL__2PRFIN20070329_035746_000000382056_00433_26539_4955.N1	29-MAR-2007 03:57:46	Dark	38.000	45	Alp Pav	1.9400	26000.	76	26539	No
42	GOM_NL__2PRFIN20070329_040348_000000422056_00434_26540_4950.N1	29-MAR-2007 04:03:48	Dark	42.000	141	Bet Ara	2.8400	4600.0	84	26540	No

3. Quality information per product

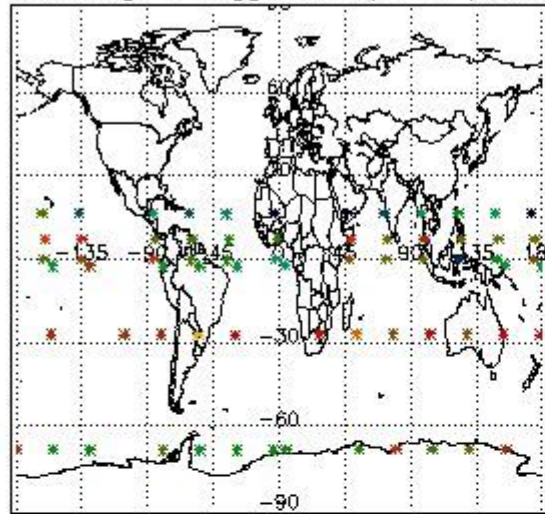
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

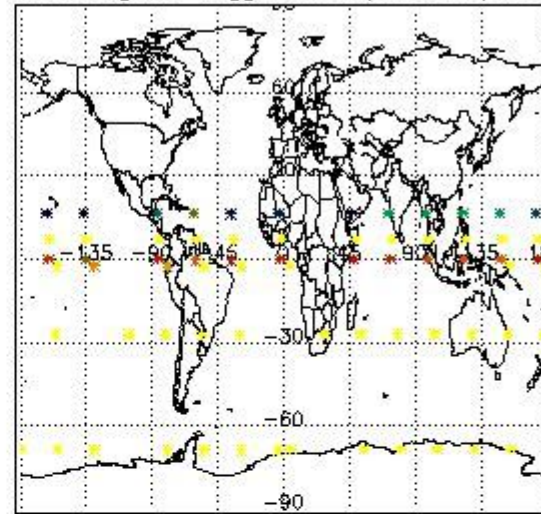


3.2 Plot quality information per product (world map)

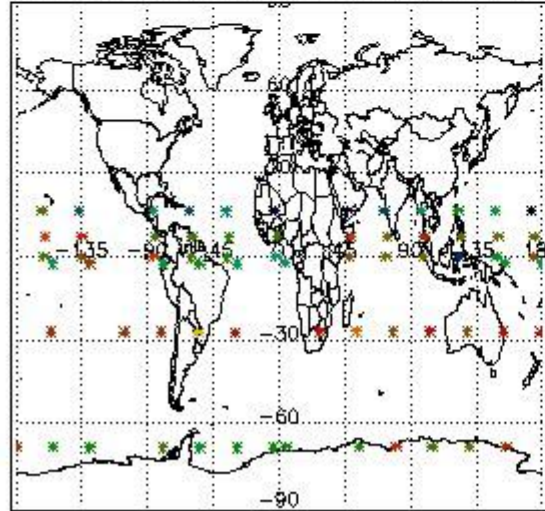
Percentage of flagged data per O3 profile



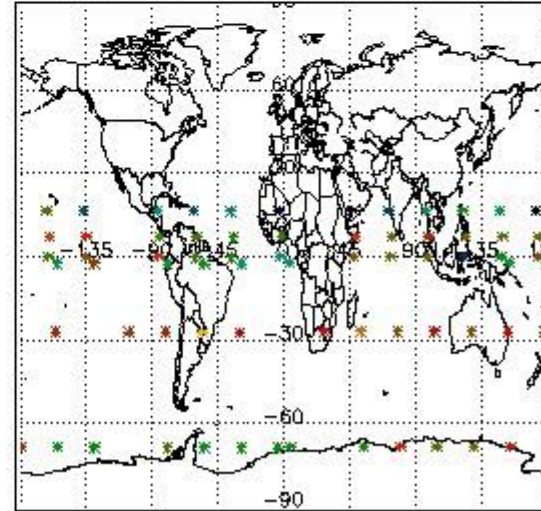
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

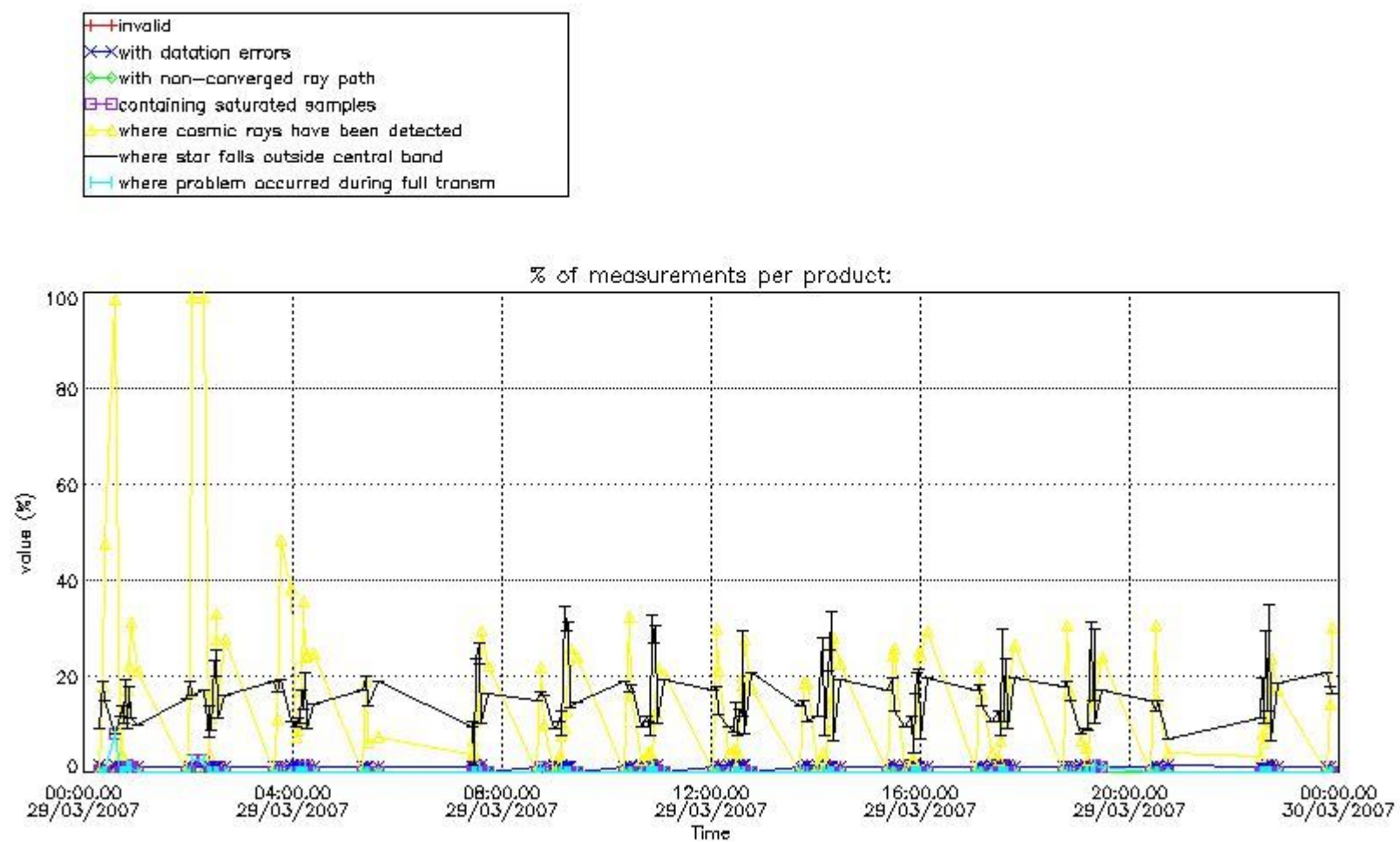


4. Level 1 quality information per product

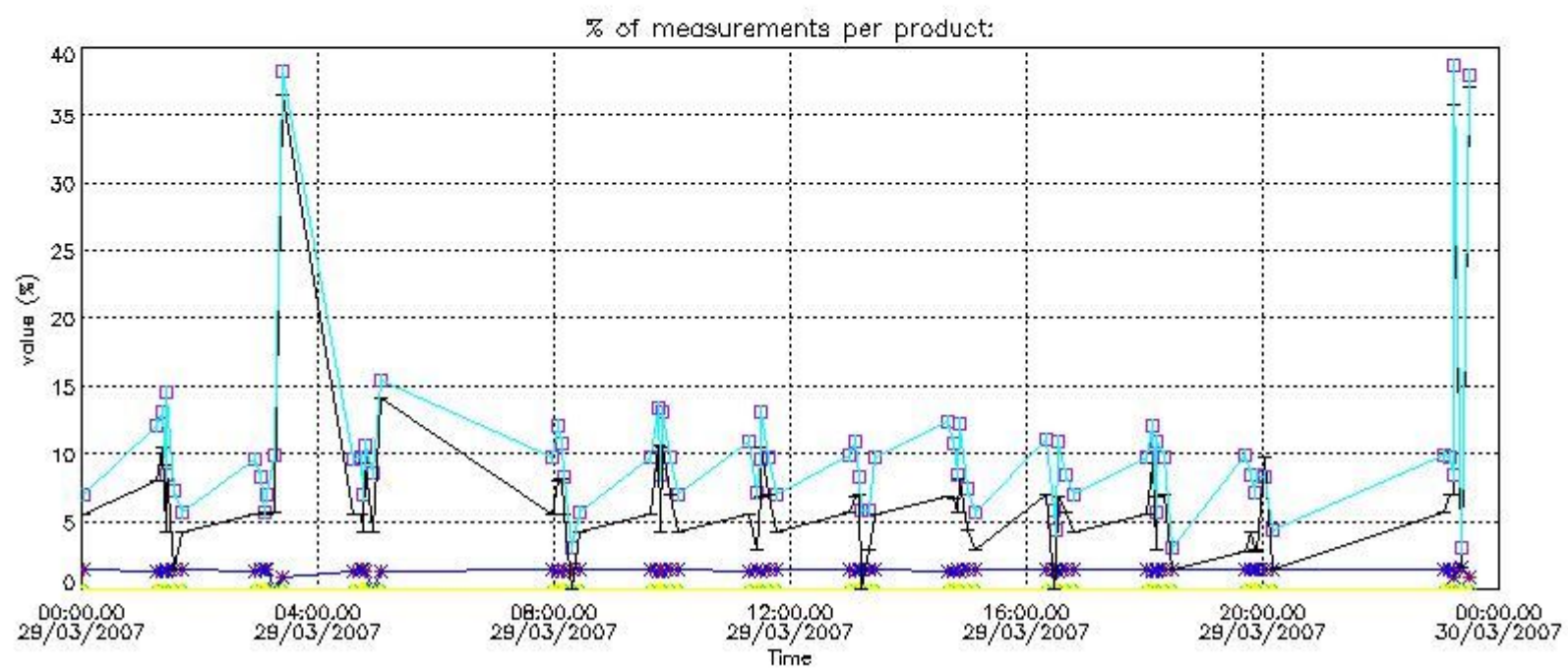
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

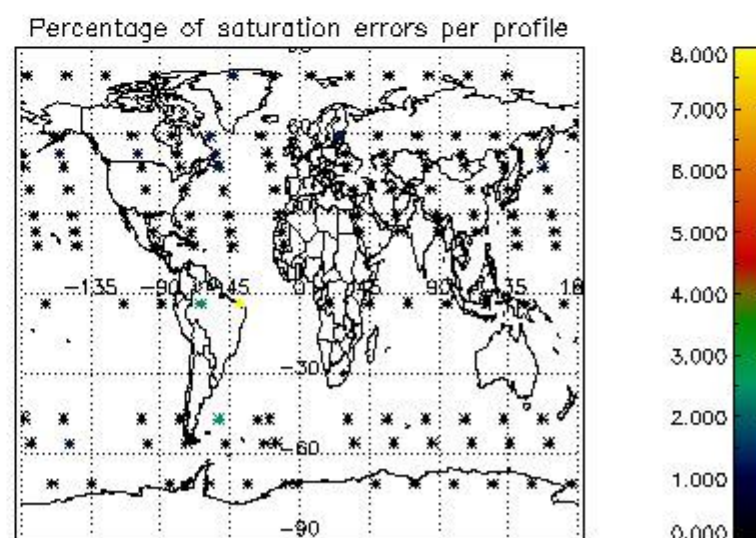
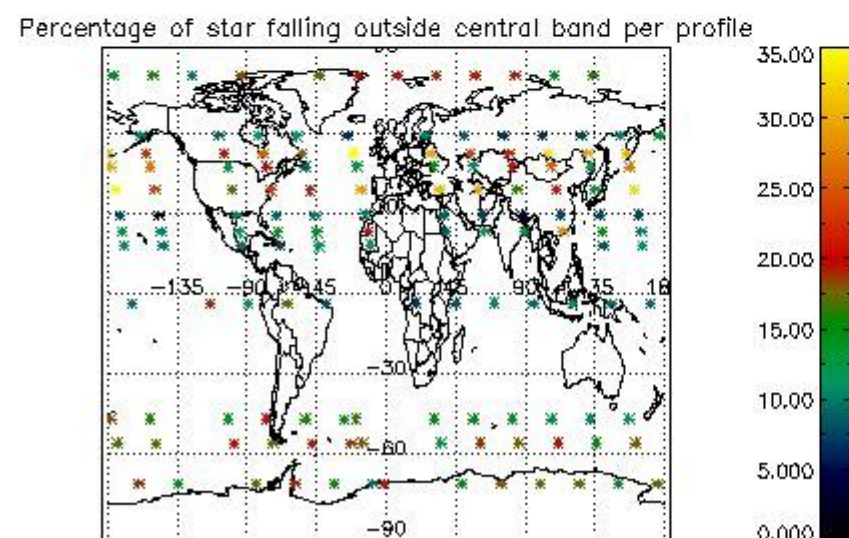
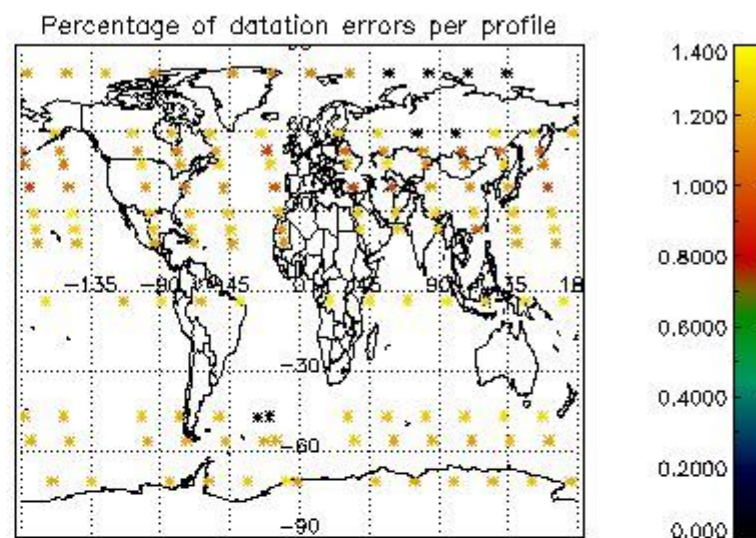
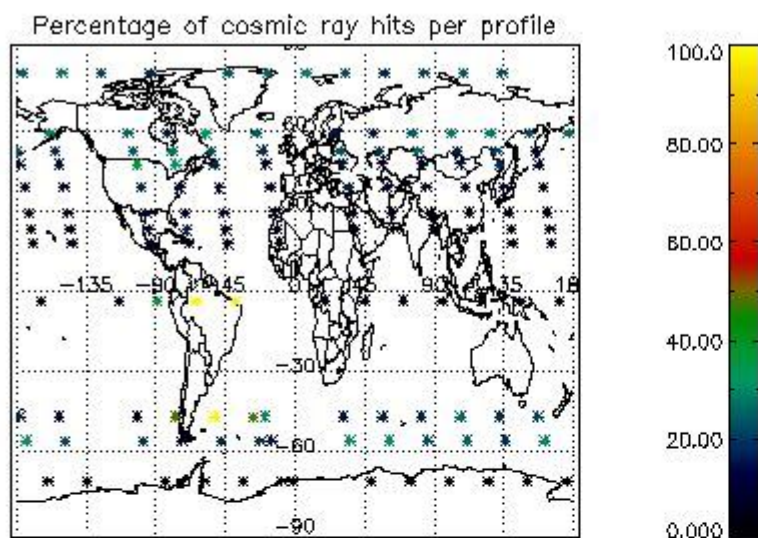


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

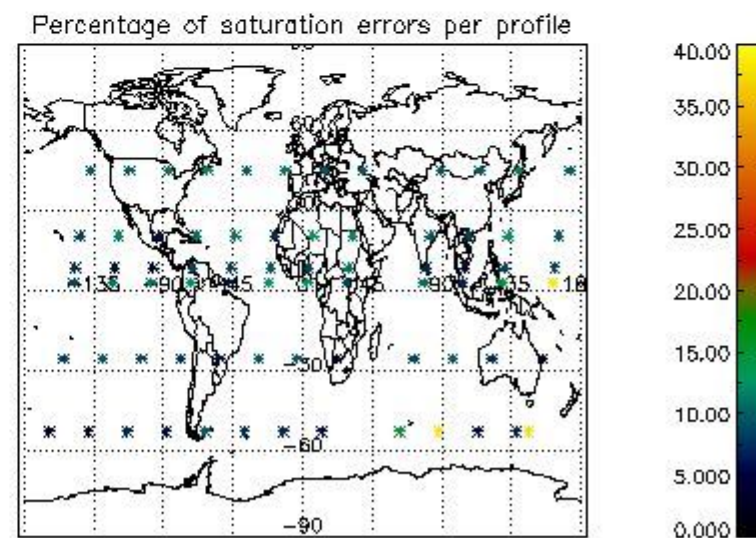
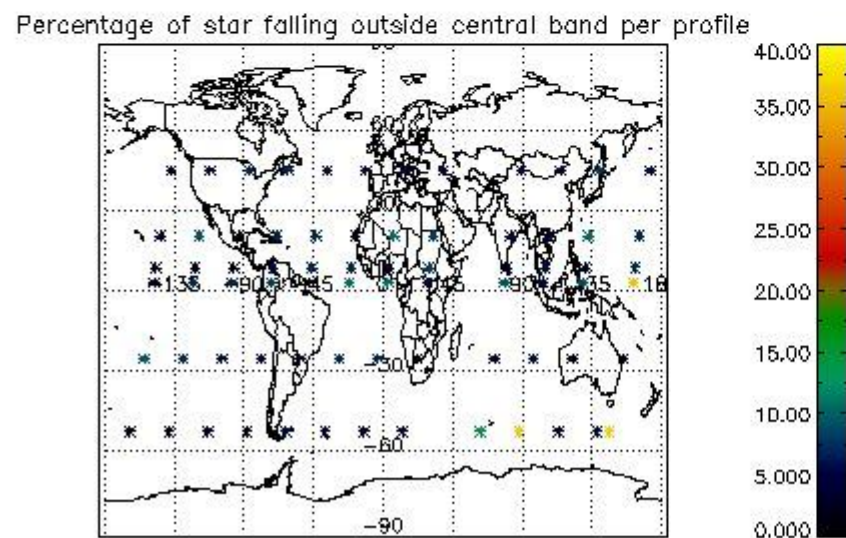
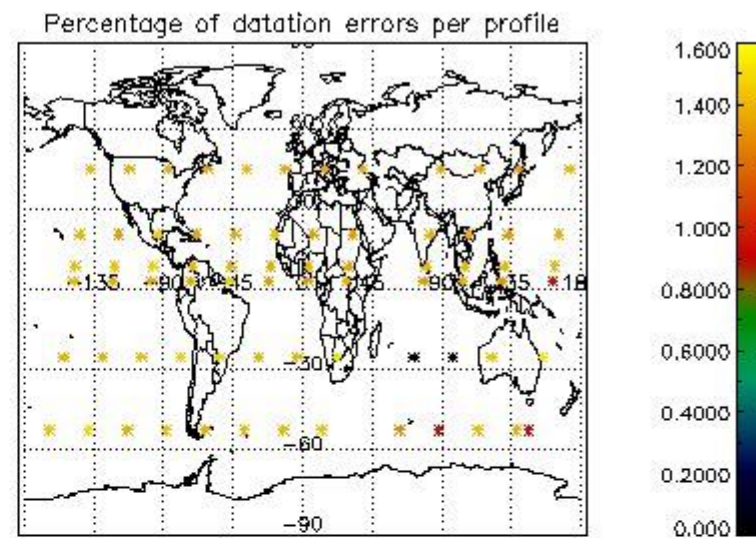
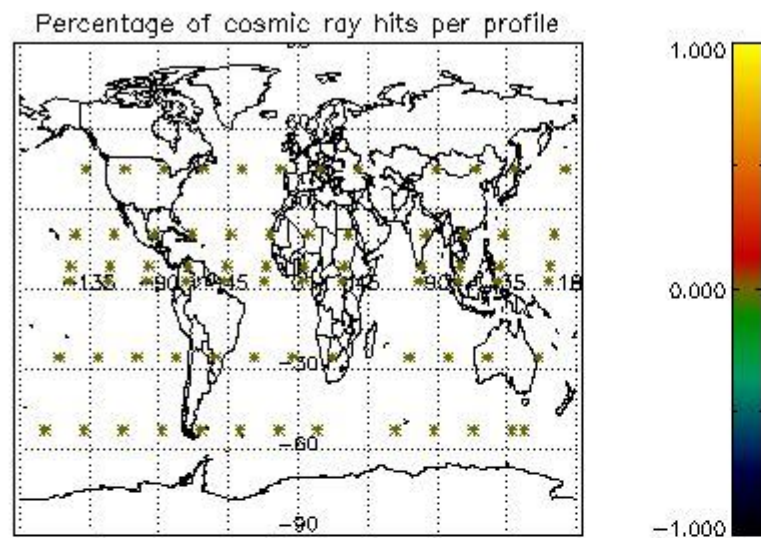


4.2 Plot quality information per product coming from level 1b processing (world map)

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

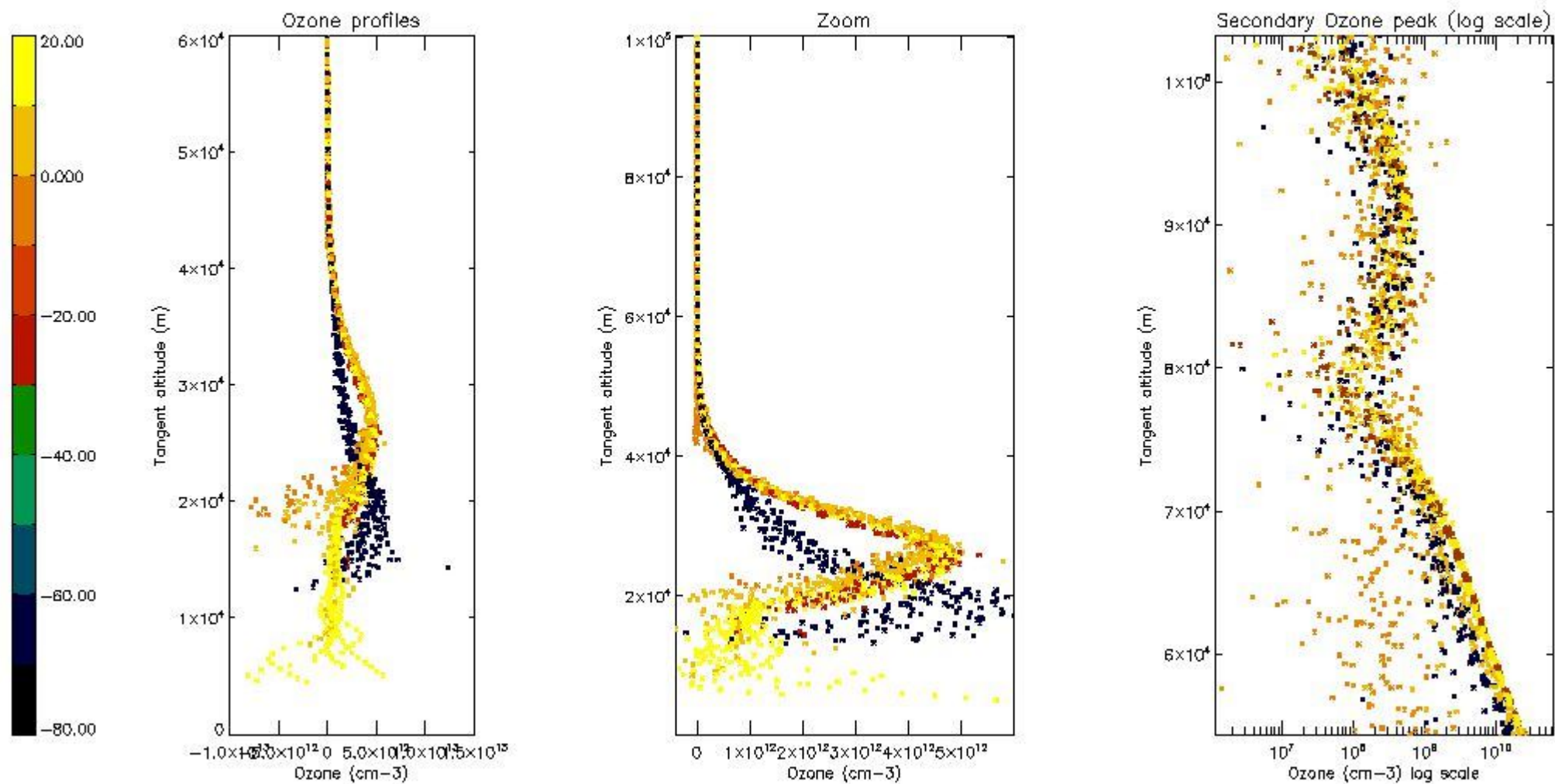
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	33
STD < 20	16

STD < 10	10
STD < 5	5

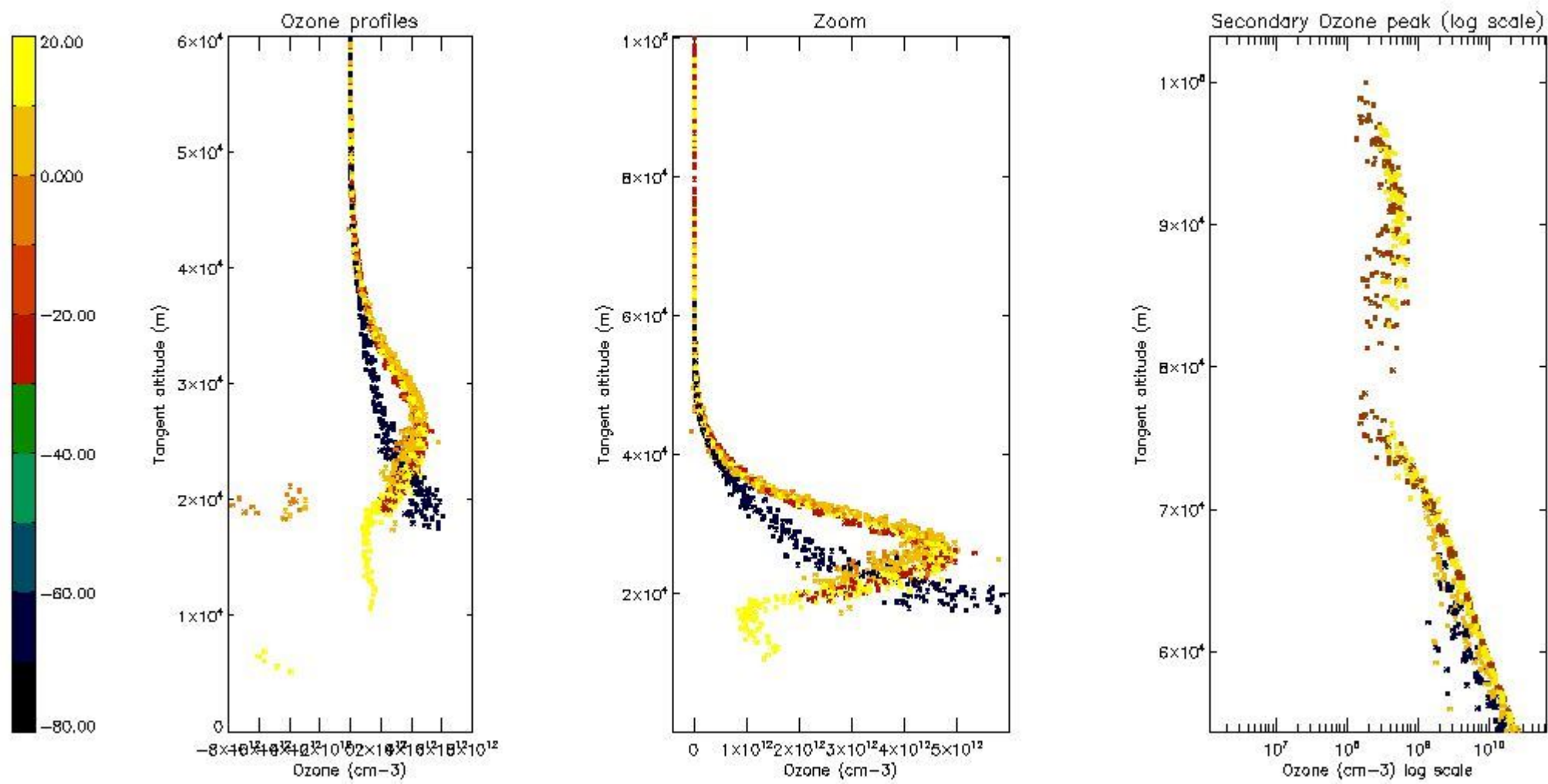
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



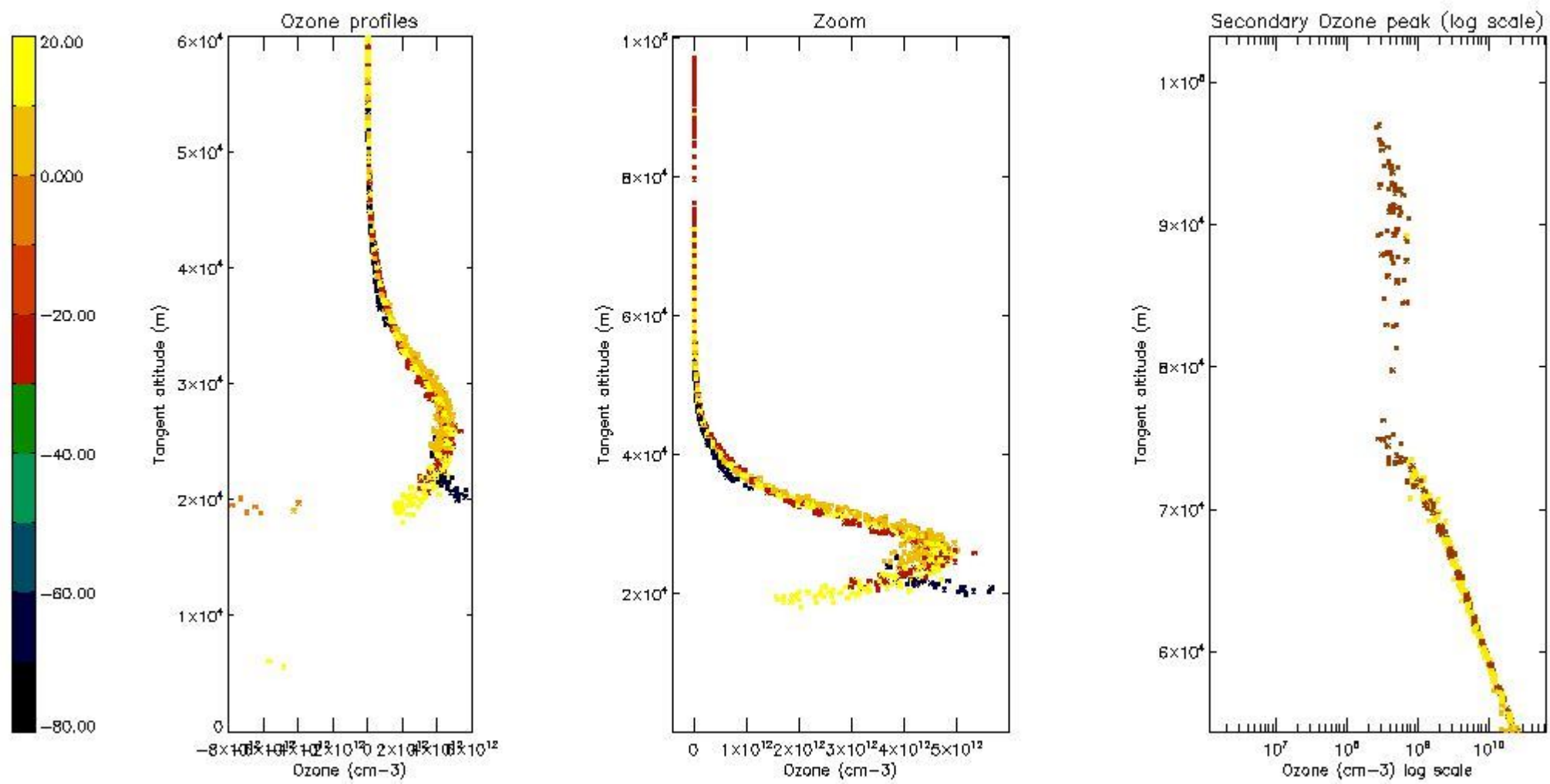
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



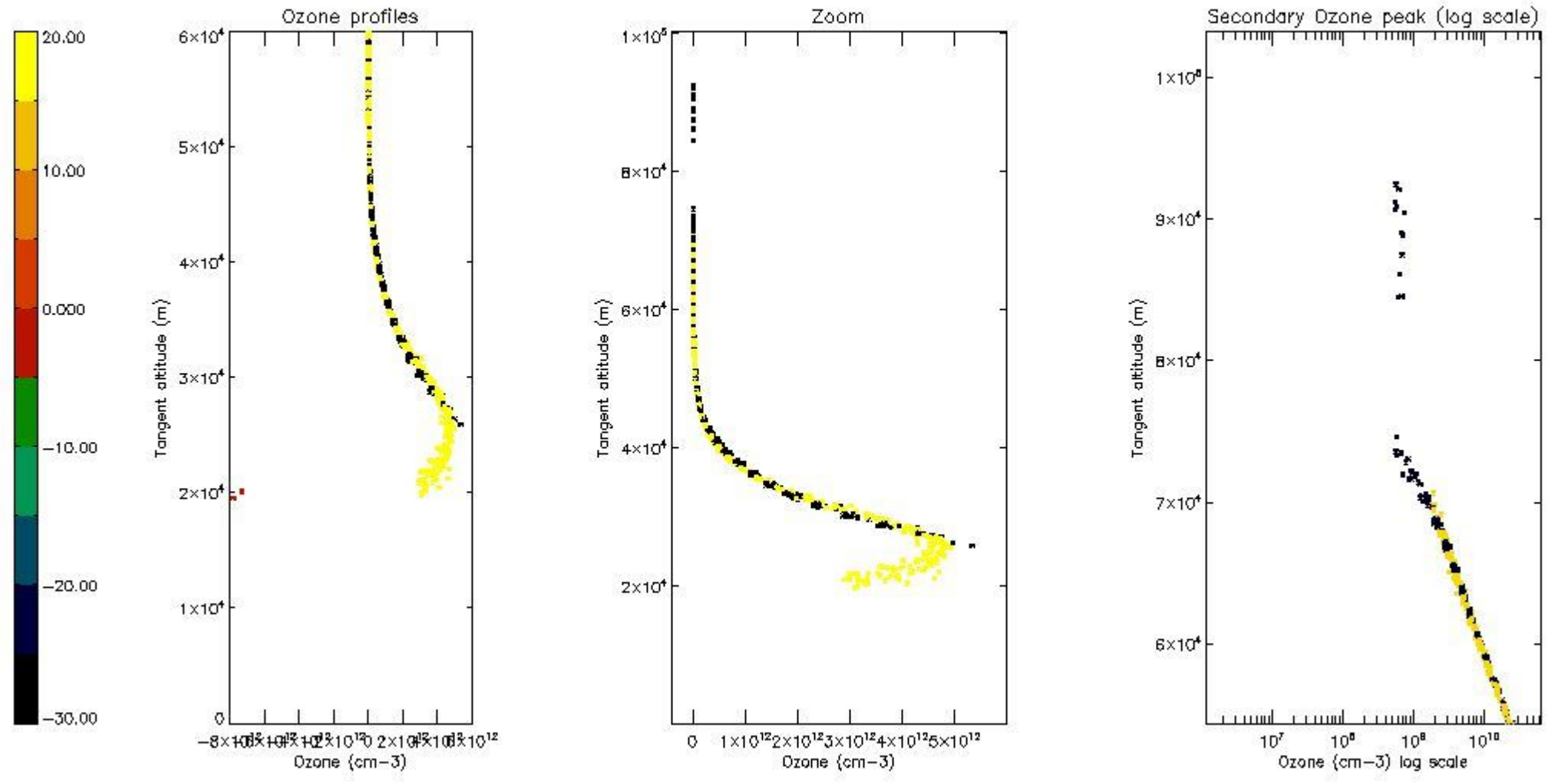
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



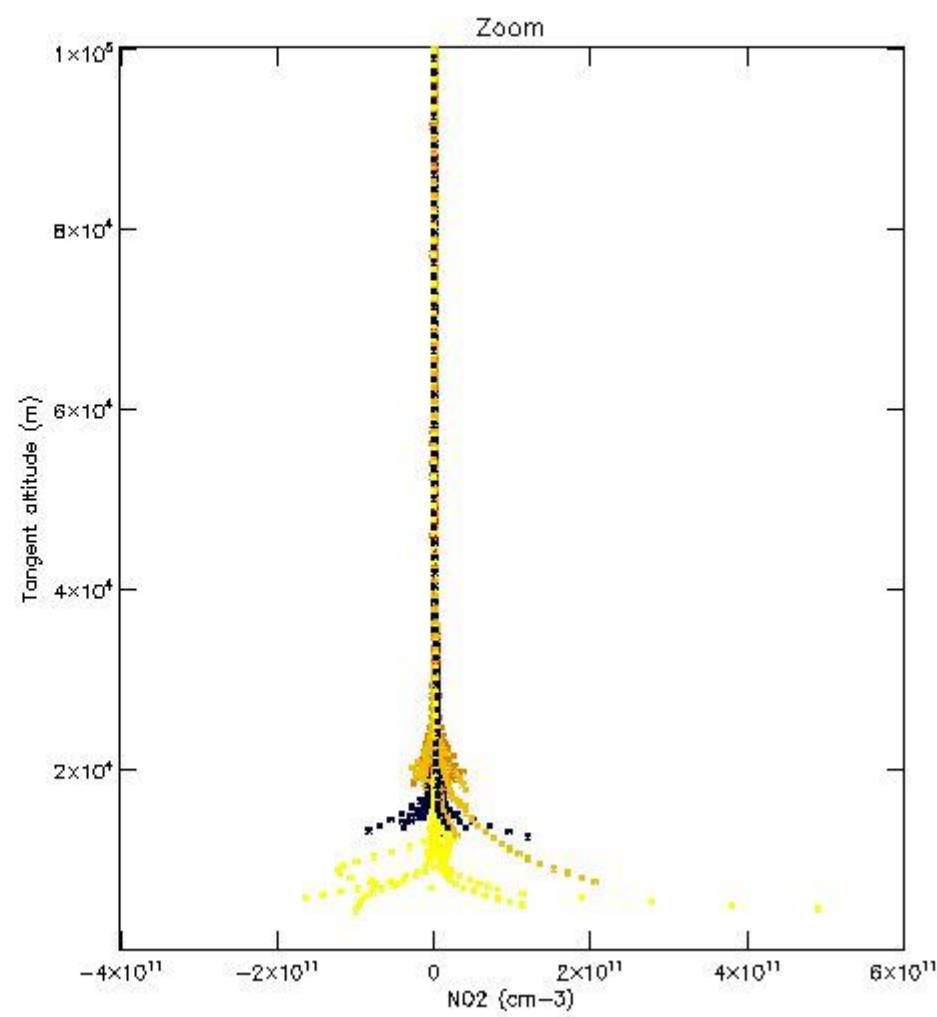
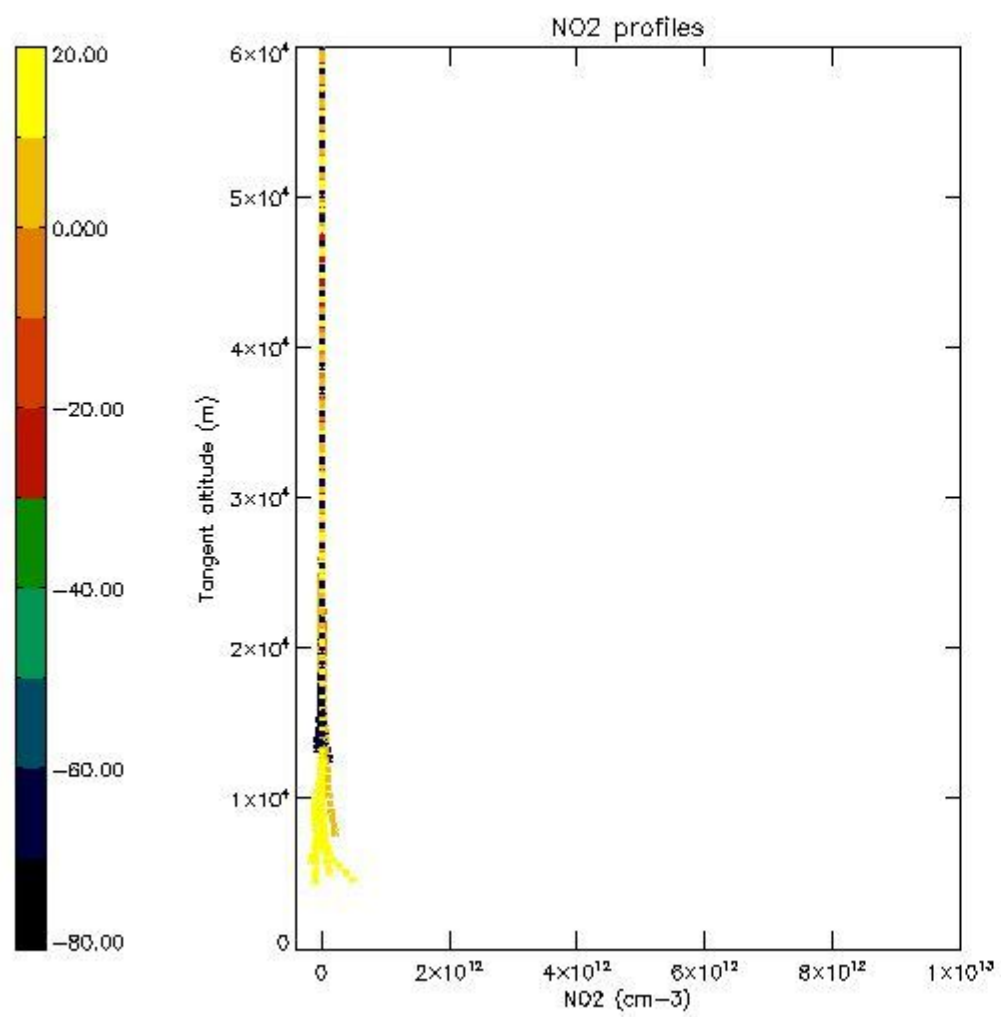
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



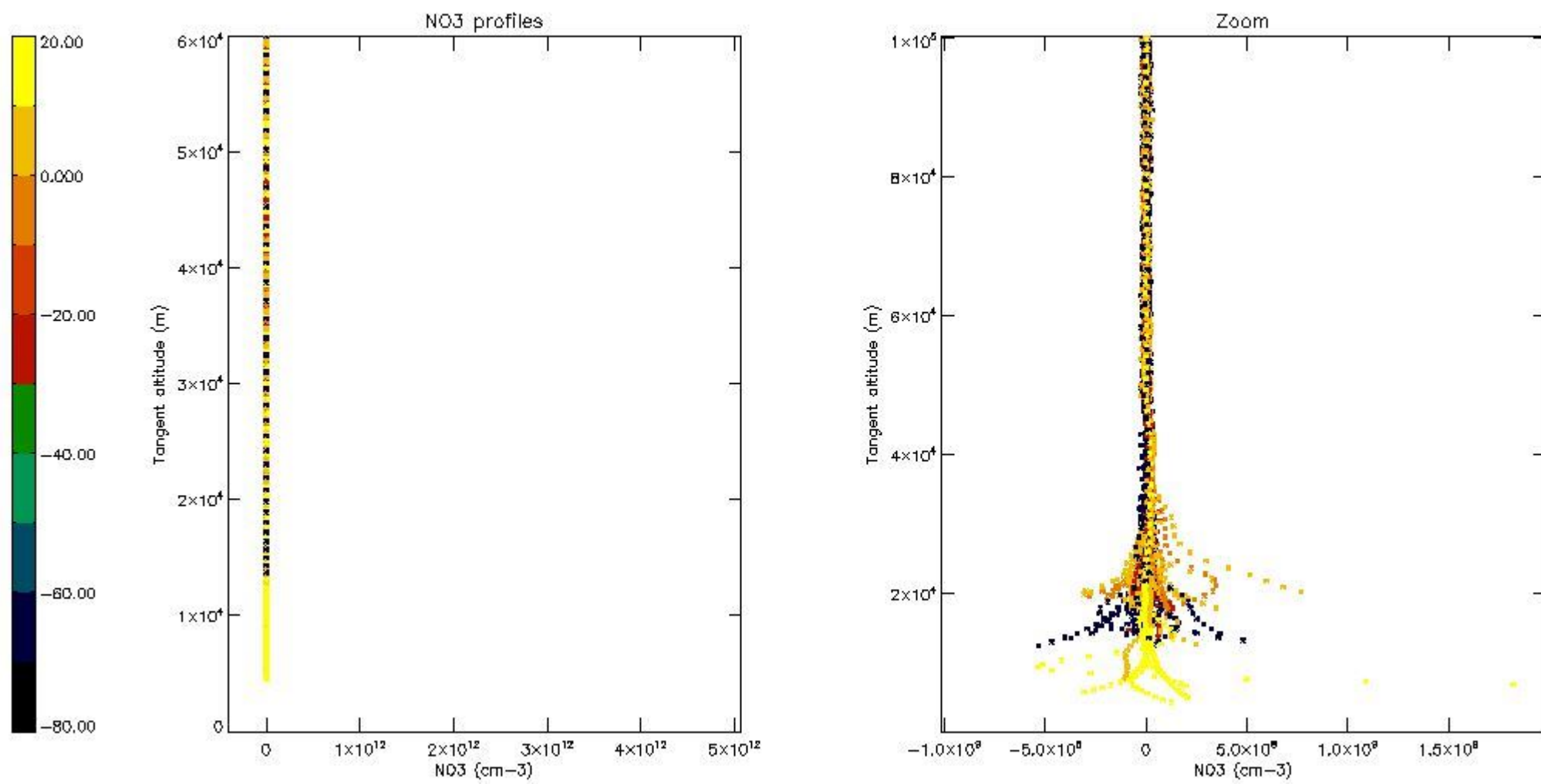
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



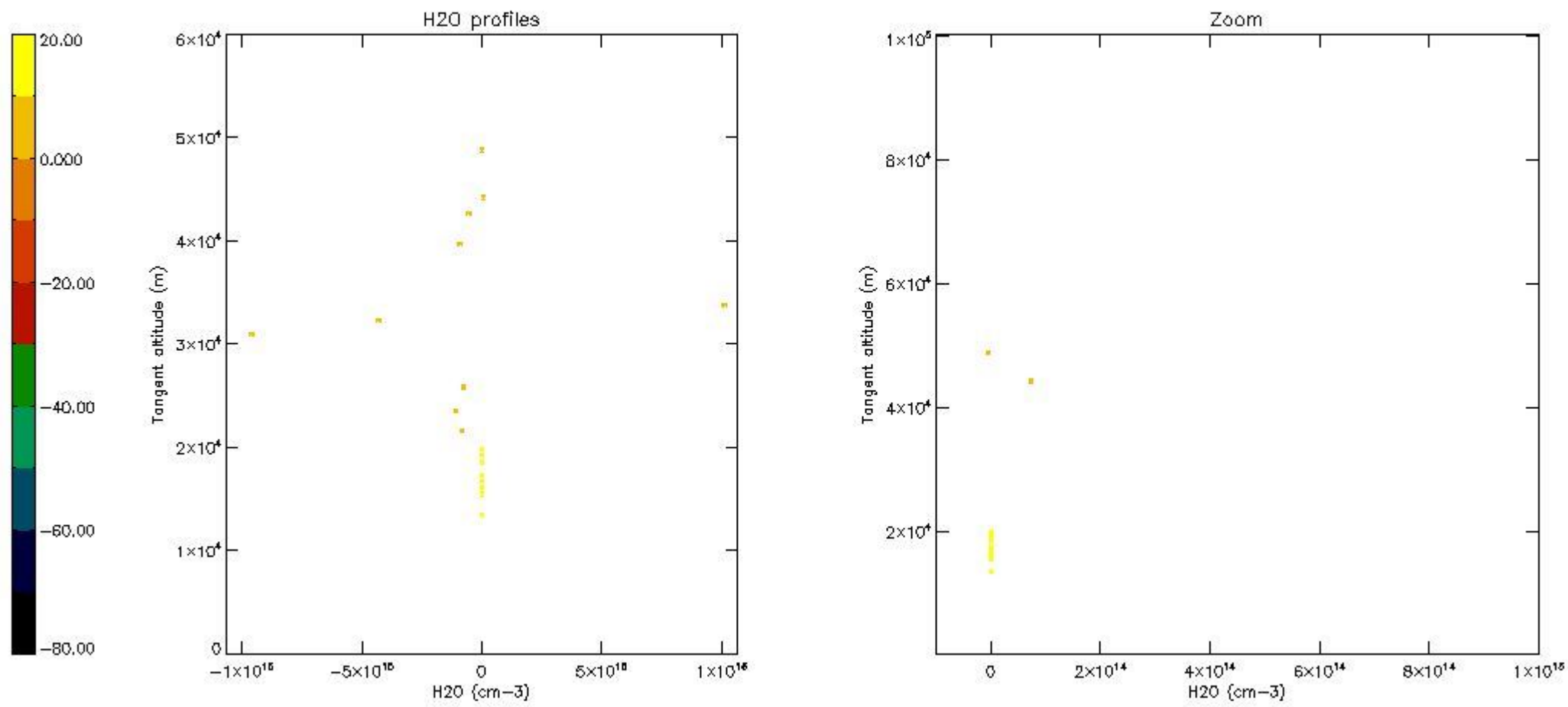
5.7 Plot NO3 profiles for all STD (dark without errors)

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	29-MAR-2007 00:02:05
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	29-MAR-2007 00:02:05
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	29-MAR-2007 00:02:05

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

[2. Summary of processed GOM_NL_2P products](#)

[3. Level 2 Quality information per product](#)

[3.1 Plot of level 2 quality information per product \(time dependant\)](#)

[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	22APR2013 17:52:27
Data source version	GOMOS/6.01
Start time of products	29-03-2007 (29MAR2007 00:00:00)
Stop time of products	30-03-2007 (30MAR2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	216
Nb of prods with errors	0

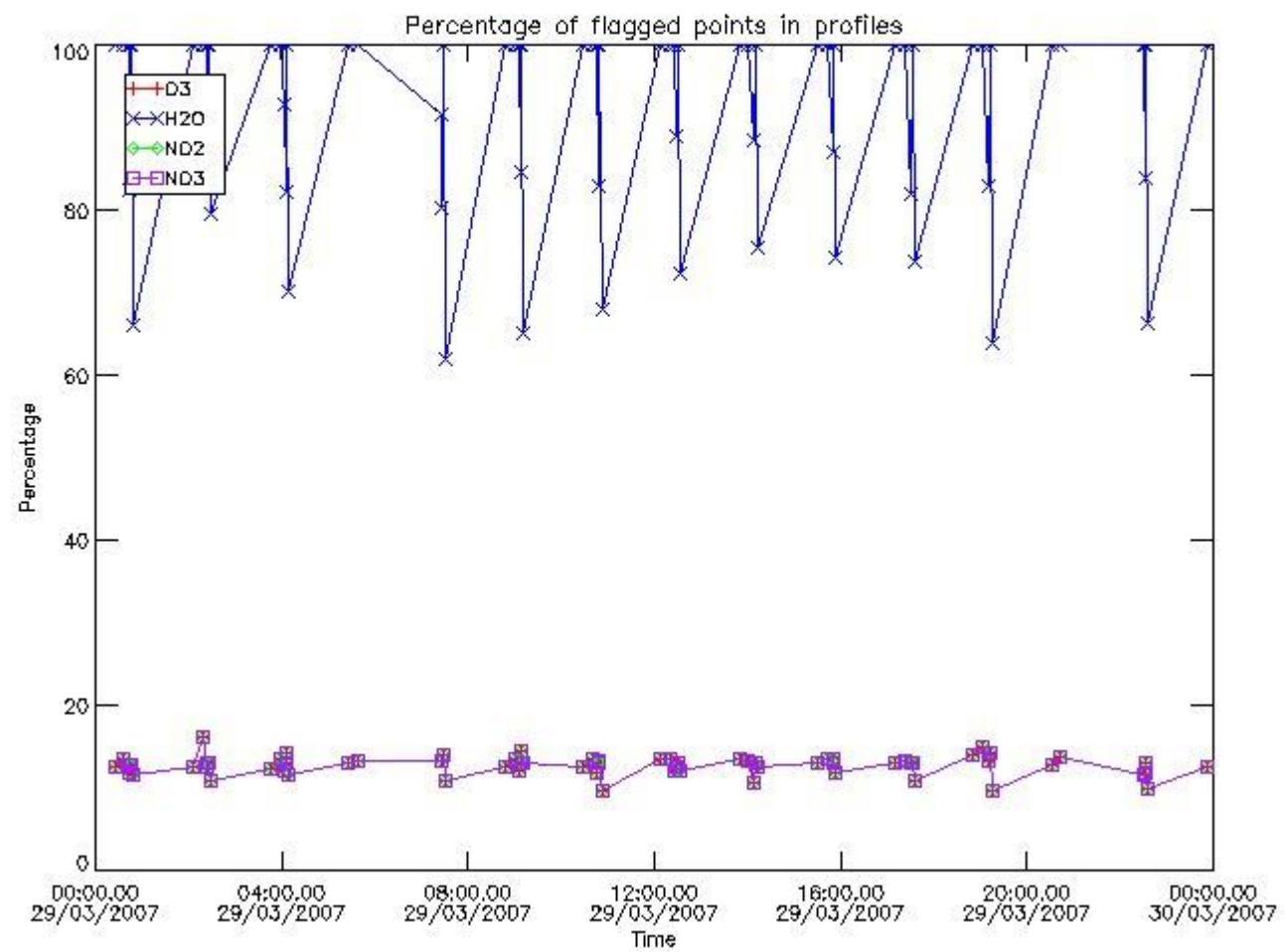
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20070329_000205_000000362056_00431_26537_4901.N1	29-MAR-2007 00:02:05	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	26537	No
2	GOM_NL__2PRFIN20070329_001715_000000382056_00431_26537_4902.N1	29-MAR-2007 00:17:15	Bright	38.000	61	8Eps Peg	2.1000	3900.0	76	26537	No
3	GOM_NL__2PRFIN20070329_002146_000000432056_00431_26537_4903.N1	29-MAR-2007 00:21:46	Twilight	42.500	154	22Bet Aqr	2.8990	5700.0	85	26537	No
4	GOM_NL__2PRFIN20070329_002422_000000402056_00431_26537_4904.N1	29-MAR-2007 00:24:22	Dark	40.000	142	49Del Cap	2.8500	8900.0	80	26537	No
5	GOM_NL__2PRFIN20070329_003633_000000382056_00431_26537_4905.N1	29-MAR-2007 00:36:33	Dark	37.500	45	Alp Pav	1.9400	26000.	75	26537	No
6	GOM_NL__2PRFIN20070329_004234_000000432056_00432_26538_4924.N1	29-MAR-2007 00:42:34	Dark	43.000	141	Bet Ara	2.8400	4600.0	86	26538	No
7	GOM_NL__2PRFIN20070329_004401_000000402056_00432_26538_4925.N1	29-MAR-2007 00:44:01	Dark	40.000	43	Alp TrA	1.9100	4250.0	80	26538	No
8	GOM_NL__2PRFIN20070329_004547_000000402056_00432_26538_4926.N1	29-MAR-2007 00:45:47	Dark	40.000	134	Bet TrA	2.8100	6600.0	80	26538	No
9	GOM_NL__2PRFIN20070329_004828_000000452056_00432_26538_4927.N1	29-MAR-2007 00:48:28	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	26538	No
10	GOM_NL__2PRFIN20070329_005056_000000382056_00432_26538_4928.N1	29-MAR-2007 00:50:56	Straylight	38.000	12	Alp1Cru	0.77500	30000.	76	26538	No
11	GOM_NL__2PRFIN20070329_005221_000000432056_00432_26538_4929.N1	29-MAR-2007 00:52:21	Straylight	42.500	26	Gam Cru	1.6240	2900.0	85	26538	No
12	GOM_NL__2PRFIN20070329_005415_000000402056_00432_26538_4930.N1	29-MAR-2007 00:54:15	Straylight	40.000	64	Gam Cen	2.2000	10600.	80	26538	No
13	GOM_NL__2PRFIN20070329_010218_000000412056_00432_26538_4931.N1	29-MAR-2007 01:02:18	Twilight	40.500	171	2Eps Crv	3.0010	4250.0	81	26538	No
14	GOM_NL__2PRFIN20070329_011515_000000382056_00432_26538_4932.N1	29-MAR-2007 01:15:15	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	26538	No
15	GOM_NL__2PRFIN20070329_012207_000000382056_00432_26538_4933.N1	29-MAR-2007 01:22:07	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	26538	No
16	GOM_NL__2PRFIN20070329_012526_000000362056_00432_26538_4934.N1	29-MAR-2007 01:25:26	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	26538	No
17	GOM_NL__2PRFIN20070329_012658_000000382056_00432_26538_4935.N1	29-MAR-2007 01:26:58	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	26538	No
18	GOM_NL__2PRFIN20070329_013455_000000352056_00432_26538_4936.N1	29-MAR-2007 01:34:55	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	26538	No
19	GOM_NL__2PRFIN20070329_014241_000000362056_00432_26538_4937.N1	29-MAR-2007 01:42:41	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	26538	No
20	GOM_NL__2PRFIN20070329_015751_000000402056_00432_26538_4938.N1	29-MAR-2007 01:57:51	Bright	39.500	61	8Eps Peg	2.1000	3900.0	79	26538	No
21	GOM_NL__2PRFIN20070329_020222_000000422056_00432_26538_4939.N1	29-MAR-2007 02:02:22	Twilight	42.000	154	22Bet Aqr	2.8990	5700.0	84	26538	No
22	GOM_NL__2PRFIN20070329_020459_000000412056_00432_26538_4940.N1	29-MAR-2007 02:04:59	Dark	40.500	142	49Del Cap	2.8500	8900.0	81	26538	No
23	GOM_NL__2PRFIN20070329_021709_000000412056_00432_26538_4941.N1	29-MAR-2007 02:17:09	Dark	41.000	45	Alp Pav	1.9400	26000.	82	26538	No
24	GOM_NL__2PRFIN20070329_022311_000000412056_00433_26539_4938.N1	29-MAR-2007 02:23:11	Dark	41.000	141	Bet Ara	2.8400	4600.0	82	26539	No
25	GOM_NL__2PRFIN20070329_022437_000000402056_00433_26539_4939.N1	29-MAR-2007 02:24:37	Dark	39.500	43	Alp TrA	1.9100	4250.0	79	26539	No
26	GOM_NL__2PRFIN20070329_022623_000000402056_00433_26539_4940.N1	29-MAR-2007 02:26:23	Dark	39.500	134	Bet TrA	2.8100	6600.0	79	26539	No
27	GOM_NL__2PRFIN20070329_022904_000000472056_00433_26539_4941.N1	29-MAR-2007 02:29:04	Dark	47.000	4	Alp1Cen	-0.010000	5800.0	94	26539	No
28	GOM_NL__2PRFIN20070329_023132_000000432056_00433_26539_4942.N1	29-MAR-2007 02:31:32	Straylight	42.500	12	Alp1Cru	0.77500	30000.	85	26539	No
29	GOM_NL__2PRFIN20070329_023257_000000462056_00433_26539_4943.N1	29-MAR-2007 02:32:57	Straylight	45.500	26	Gam Cru	1.6240	2900.0	91	26539	No
30	GOM_NL__2PRFIN20070329_023451_000000402056_00433_26539_4944.N1	29-MAR-2007 02:34:51	Straylight	40.000	64	Gam Cen	2.2000	10600.	80	26539	No
31	GOM_NL__2PRFIN20070329_024254_000000442056_00433_26539_4945.N1	29-MAR-2007 02:42:54	Twilight	43.500	171	2Eps Crv	3.0010	4250.0	87	26539	No
32	GOM_NL__2PRFIN20070329_025551_000000372056_00433_26539_4946.N1	29-MAR-2007 02:55:51	Bright	36.500	96	68Del Leo	2.5600	9300.0	73	26539	No
33	GOM_NL__2PRFIN20070329_030243_000000362056_00433_26539_4947.N1	29-MAR-2007 03:02:43	Bright	36.000	174	52Psi UMa	3.0040	4400.0	72	26539	No
34	GOM_NL__2PRFIN20070329_030602_000000362056_00433_26539_4948.N1	29-MAR-2007 03:06:02	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	26539	No
35	GOM_NL__2PRFIN20070329_030734_000000362056_00433_26539_4949.N1	29-MAR-2007 03:07:34	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	26539	No
36	GOM_NL__2PRFIN20070329_031531_000000362056_00433_26539_4950.N1	29-MAR-2007 03:15:31	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	26539	No
37	GOM_NL__2PRFIN20070329_032317_000000542056_00433_26539_4951.N1	29-MAR-2007 03:23:17	Bright	53.500	89	5Alp Cep	2.4510	8000.0	107	26539	No
38	GOM_NL__2PRFIN20070329_033827_000000422056_00433_26539_4952.N1	29-MAR-2007 03:38:27	Bright	42.000	61	8Eps Peg	2.1000	3900.0	84	26539	No
39	GOM_NL__2PRFIN20070329_034258_000000422056_00433_26539_4953.N1	29-MAR-2007 03:42:58	Twilight	41.500	154	22Bet Aqr	2.8990	5700.0	83	26539	No
40	GOM_NL__2PRFIN20070329_034535_000000422056_00433_26539_4954.N1	29-MAR-2007 03:45:35	Dark	41.500	142	49Del Cap	2.8500	8900.0	83	26539	No
41	GOM_NL__2PRFIN20070329_035746_000000382056_00433_26539_4955.N1	29-MAR-2007 03:57:46	Dark	38.000	45	Alp Pav	1.9400	26000.	76	26539	No
42	GOM_NL__2PRFIN20070329_040348_000000422056_00434_26540_4950.N1	29-MAR-2007 04:03:48	Dark	42.000	141	Bet Ara	2.8400	4600.0	84	26540	No

3. Quality information per product

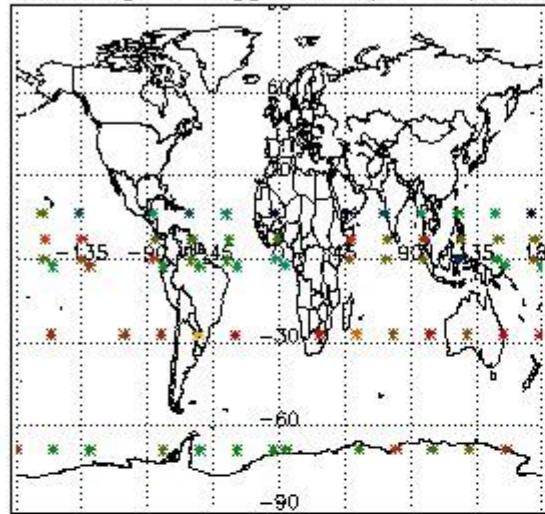
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

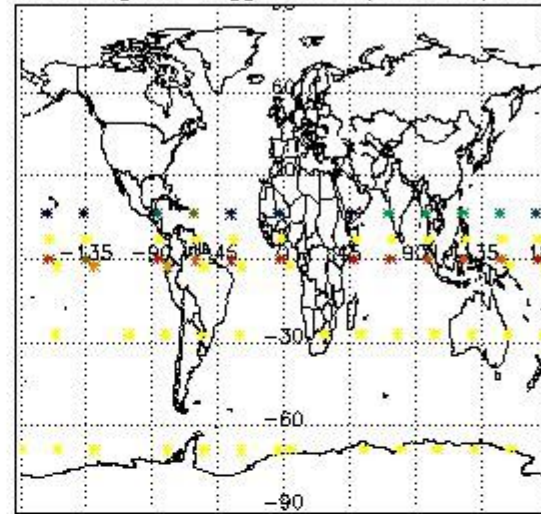


3.2 Plot quality information per product (world map)

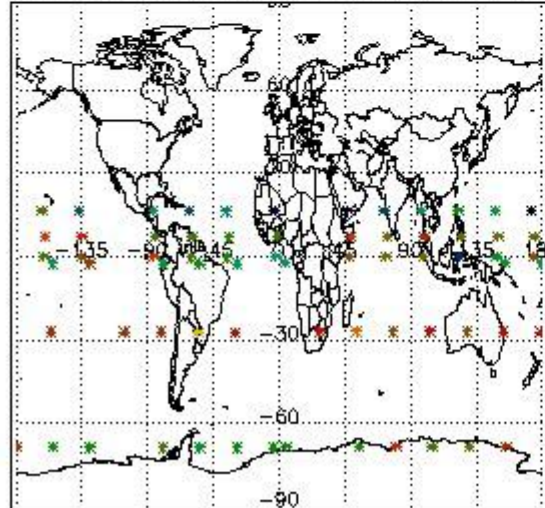
Percentage of flagged data per O3 profile



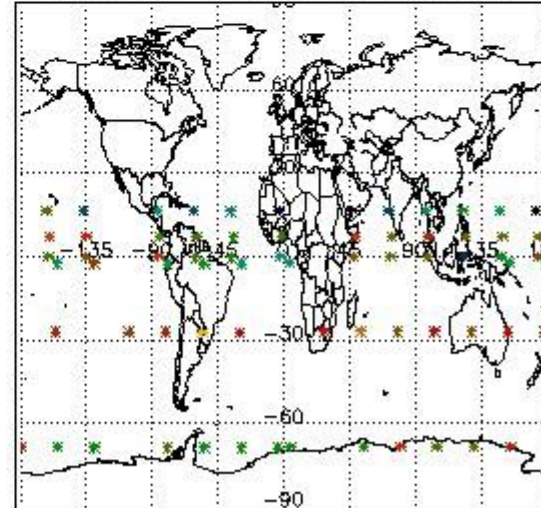
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

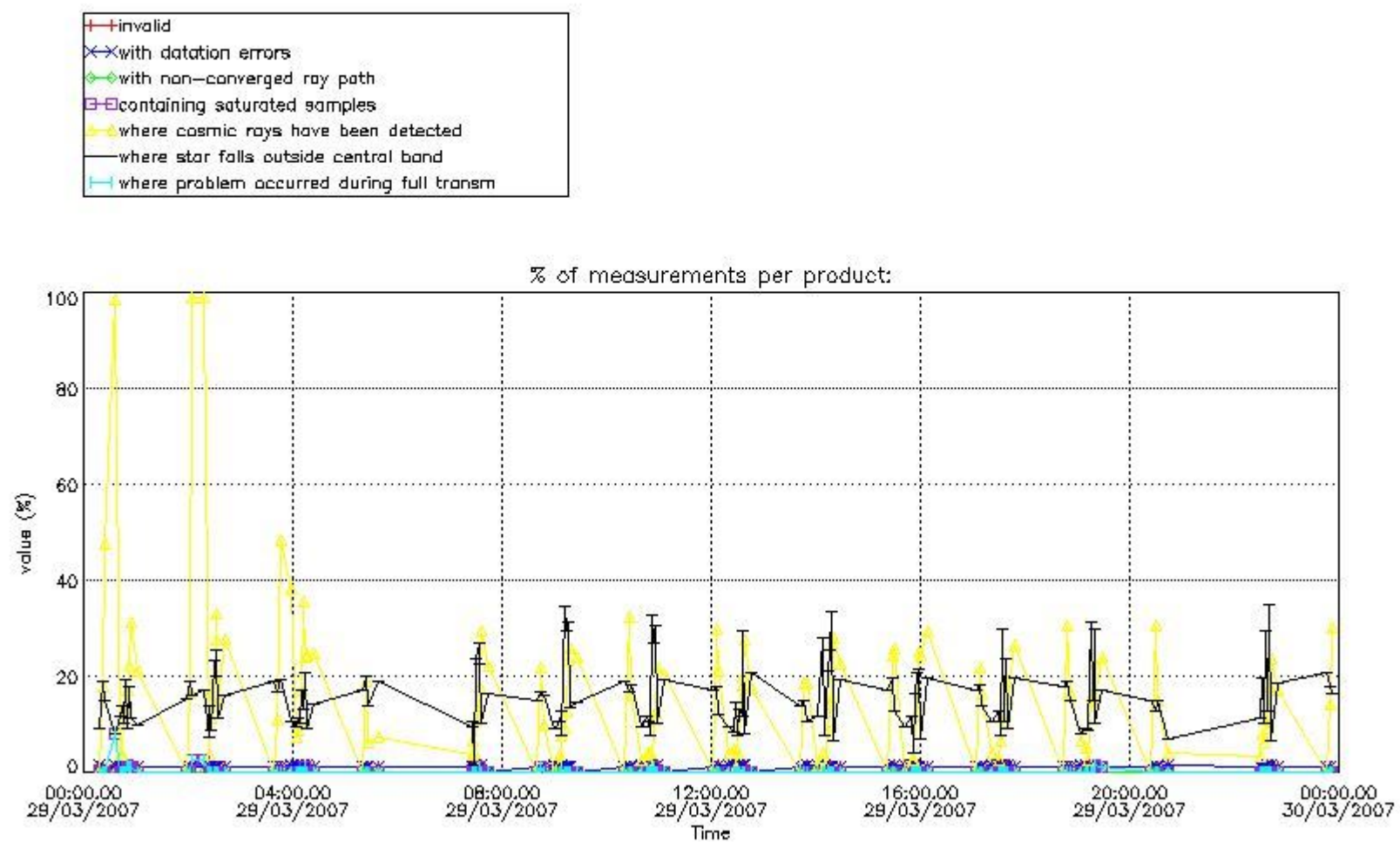


4. Level 1 quality information per product

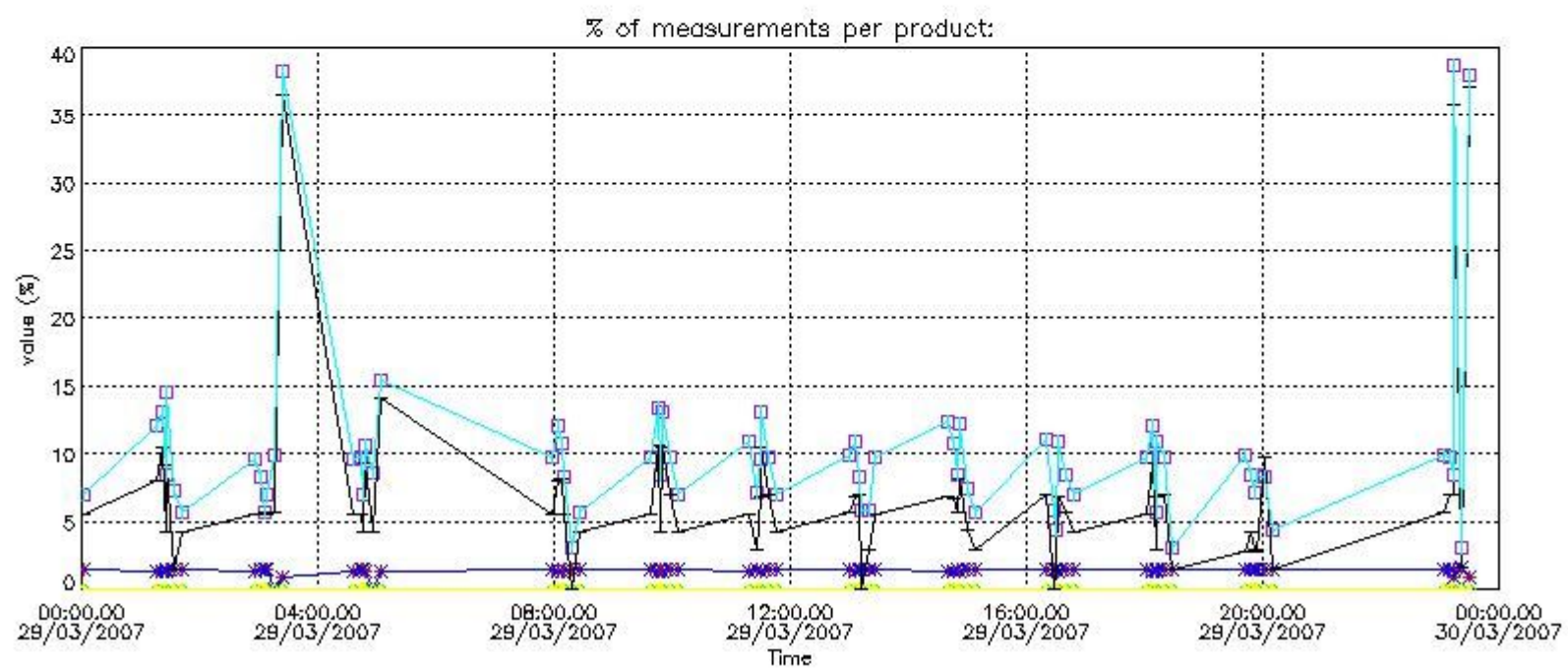
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

4.1 Plot quality information per product (time dependant) coming from level 1b processing

4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes



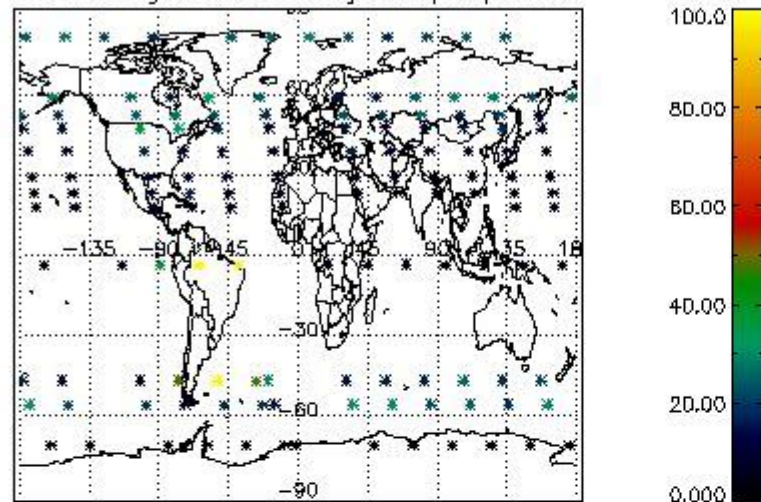
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



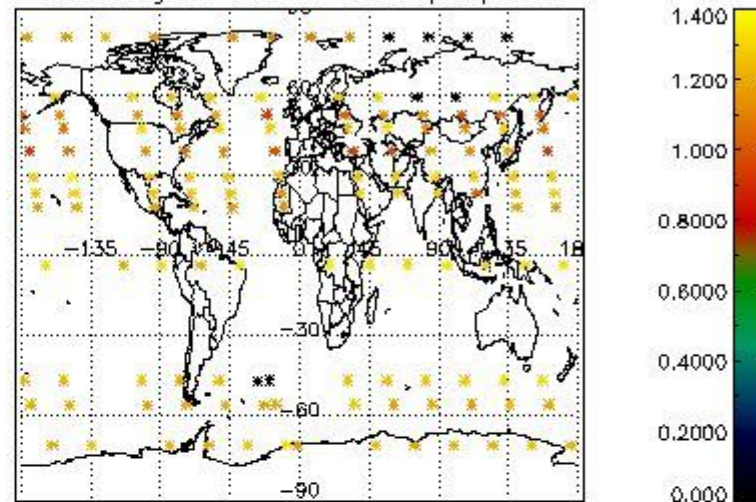
4.2 Plot quality information per product coming from level 1b processing (world map)

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

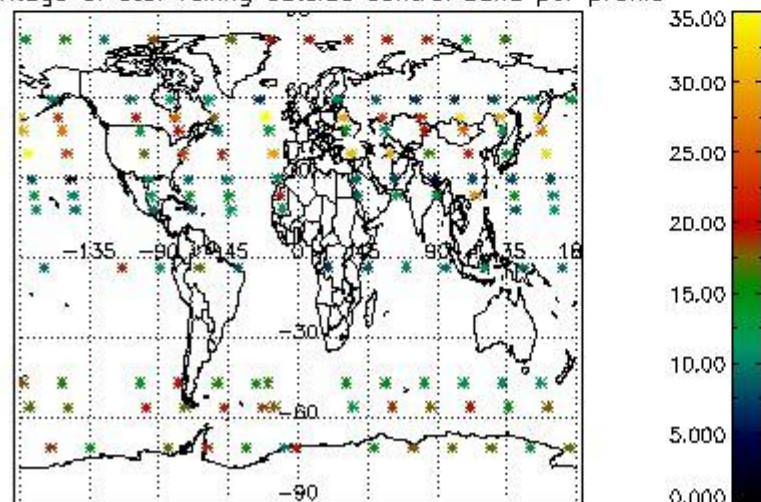
Percentage of cosmic ray hits per profile



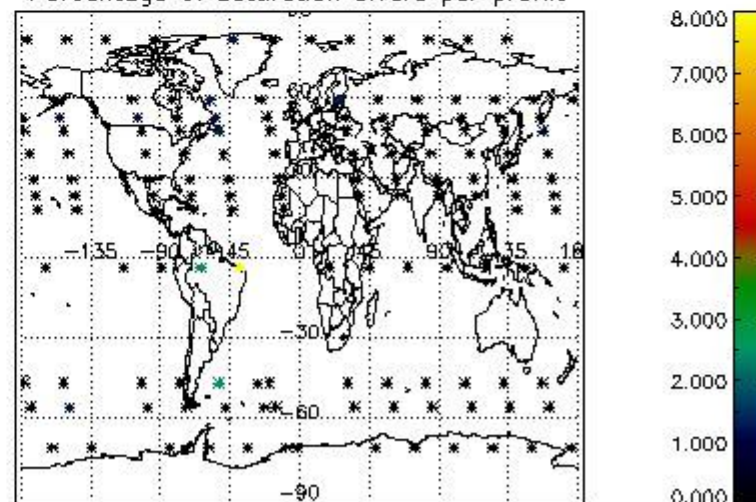
Percentage of datation errors per profile



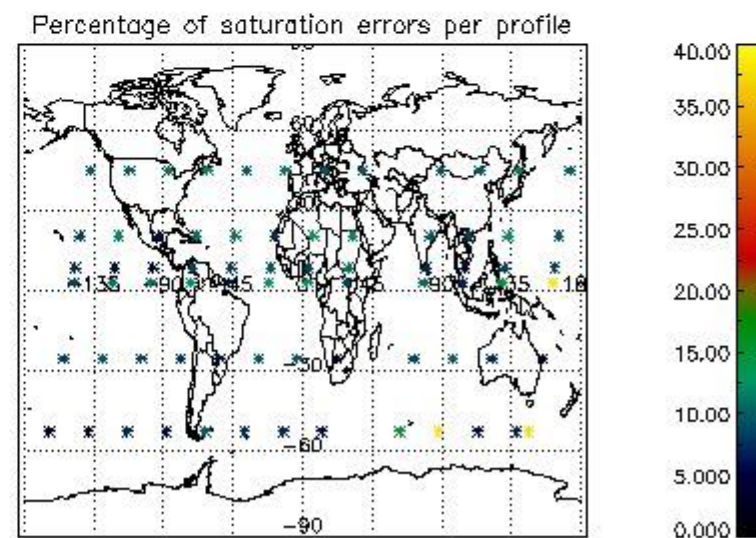
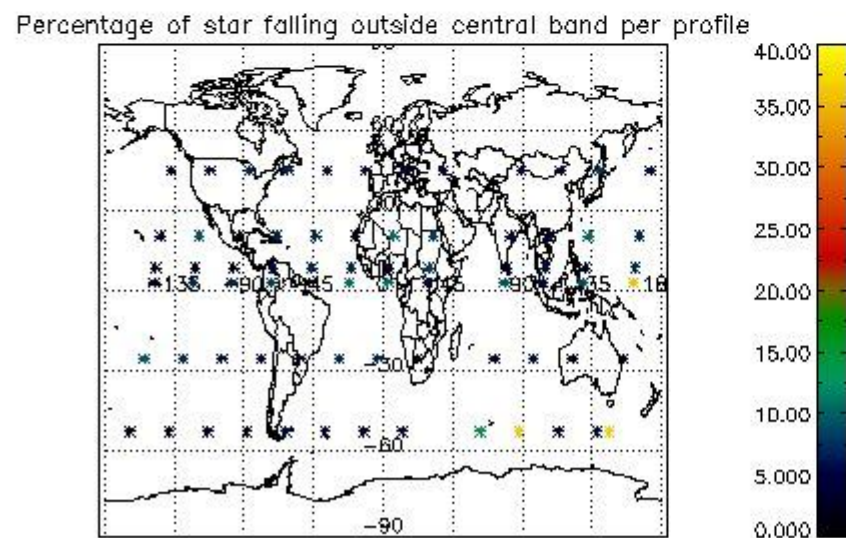
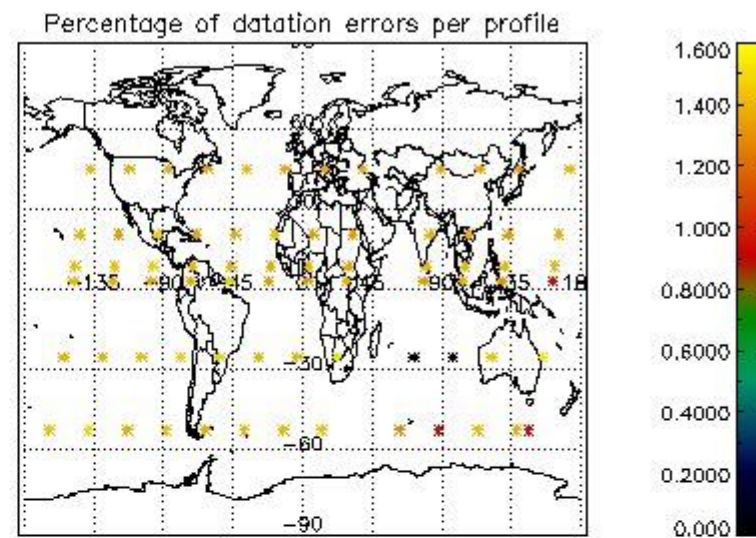
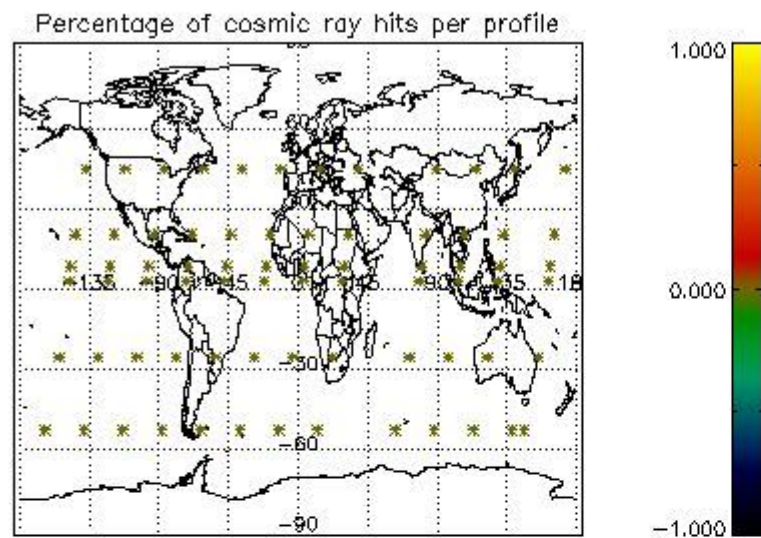
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

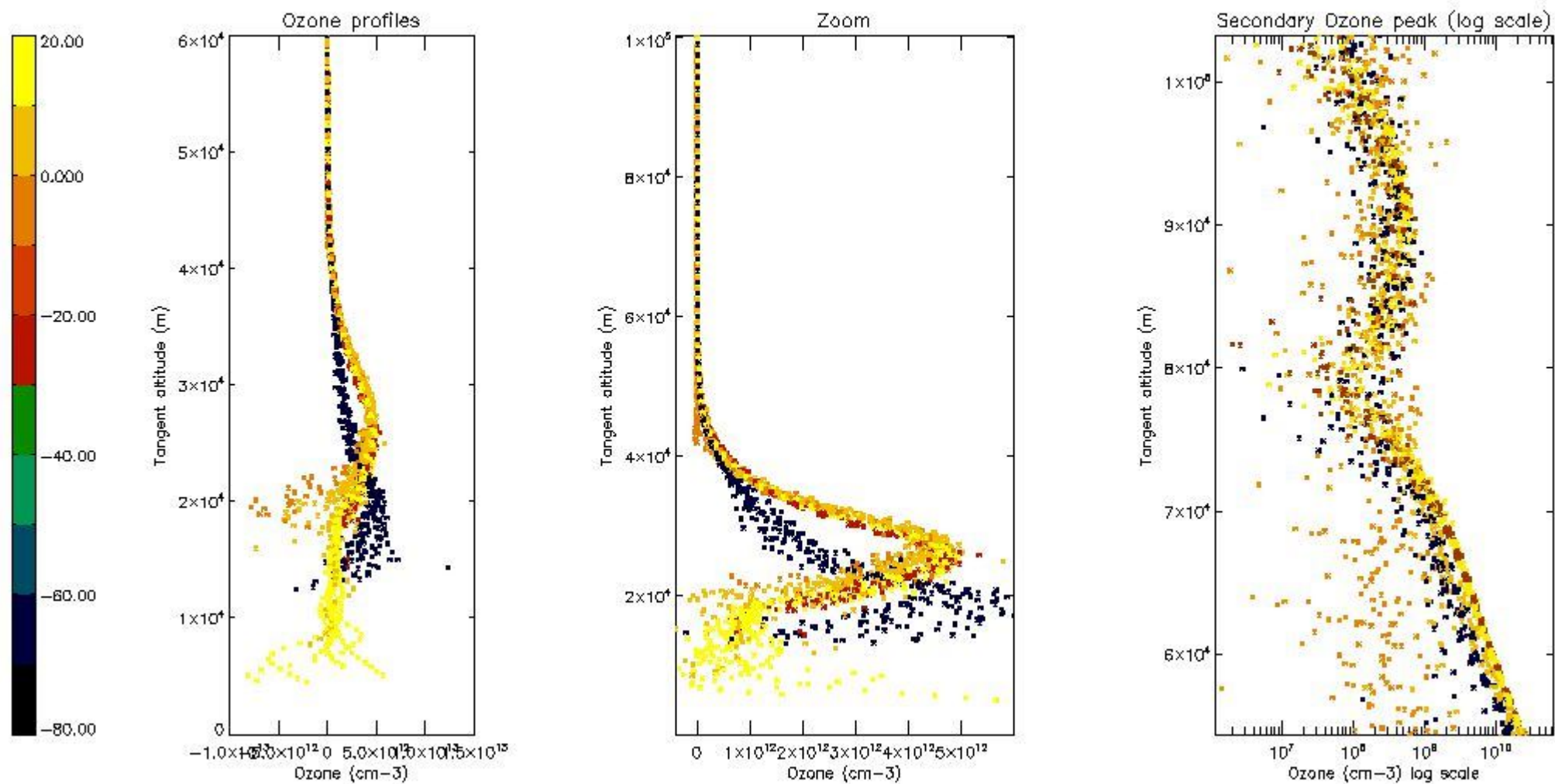
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	33
STD < 20	16

STD < 10	10
STD < 5	5

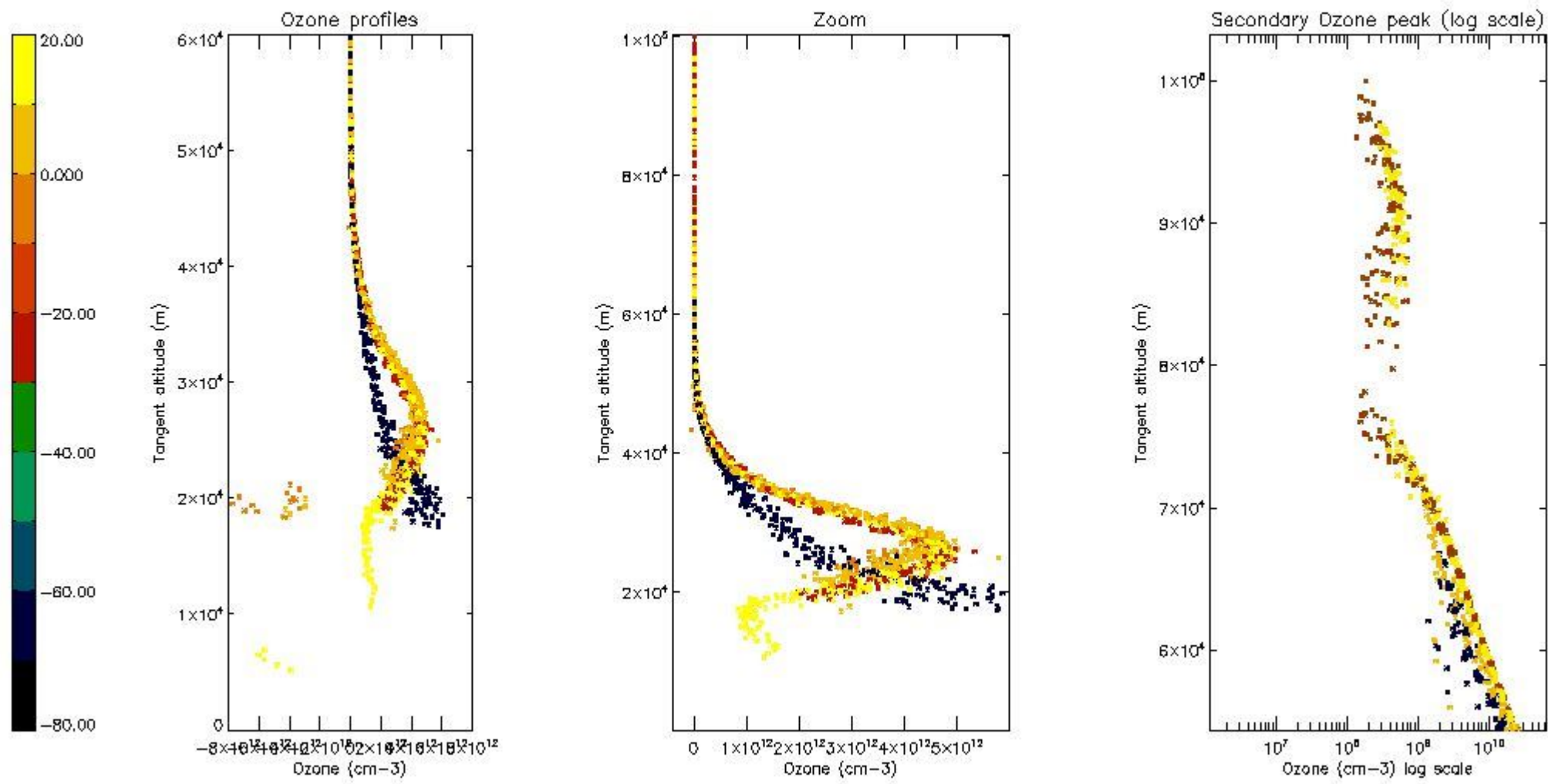
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



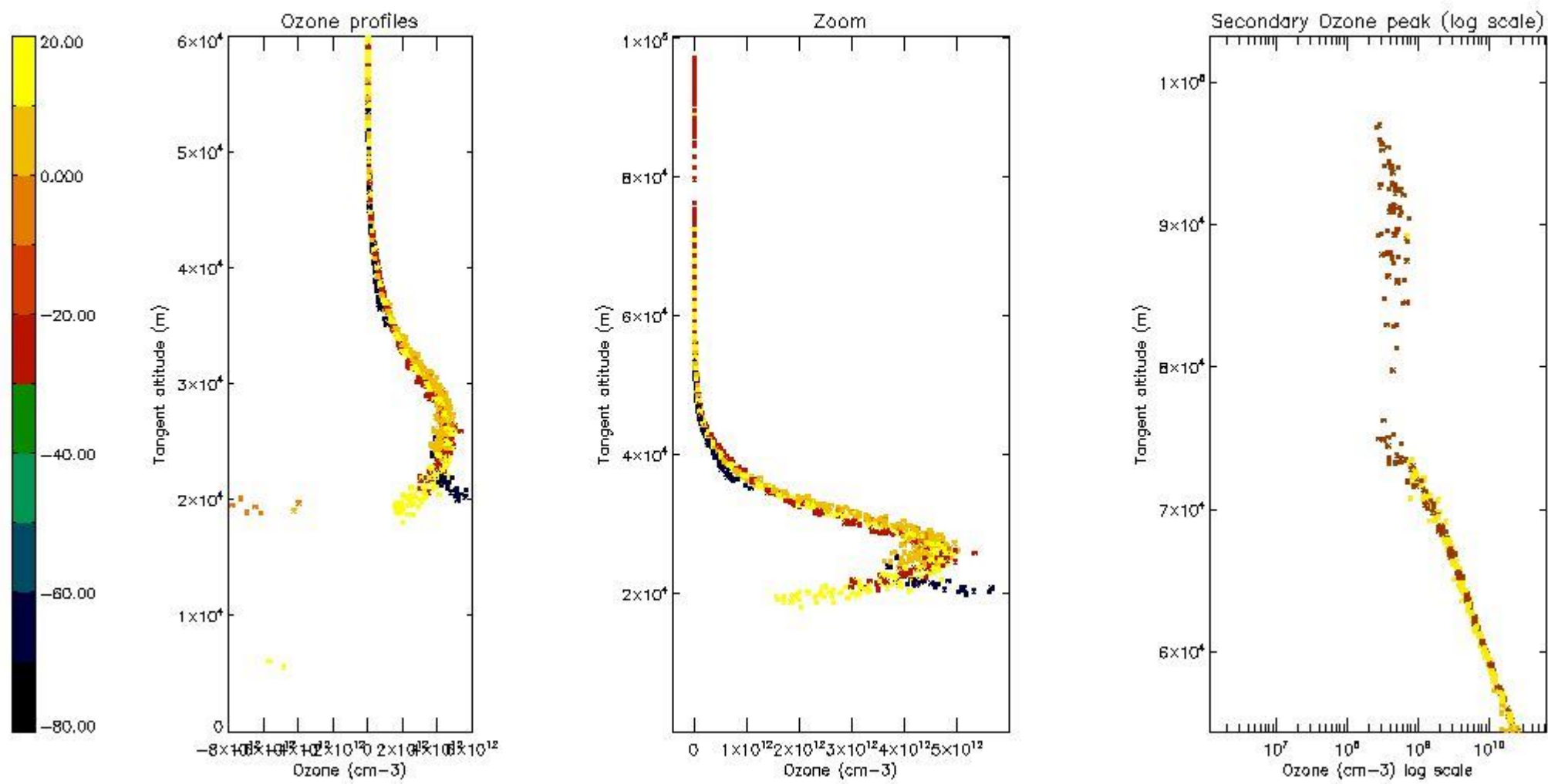
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



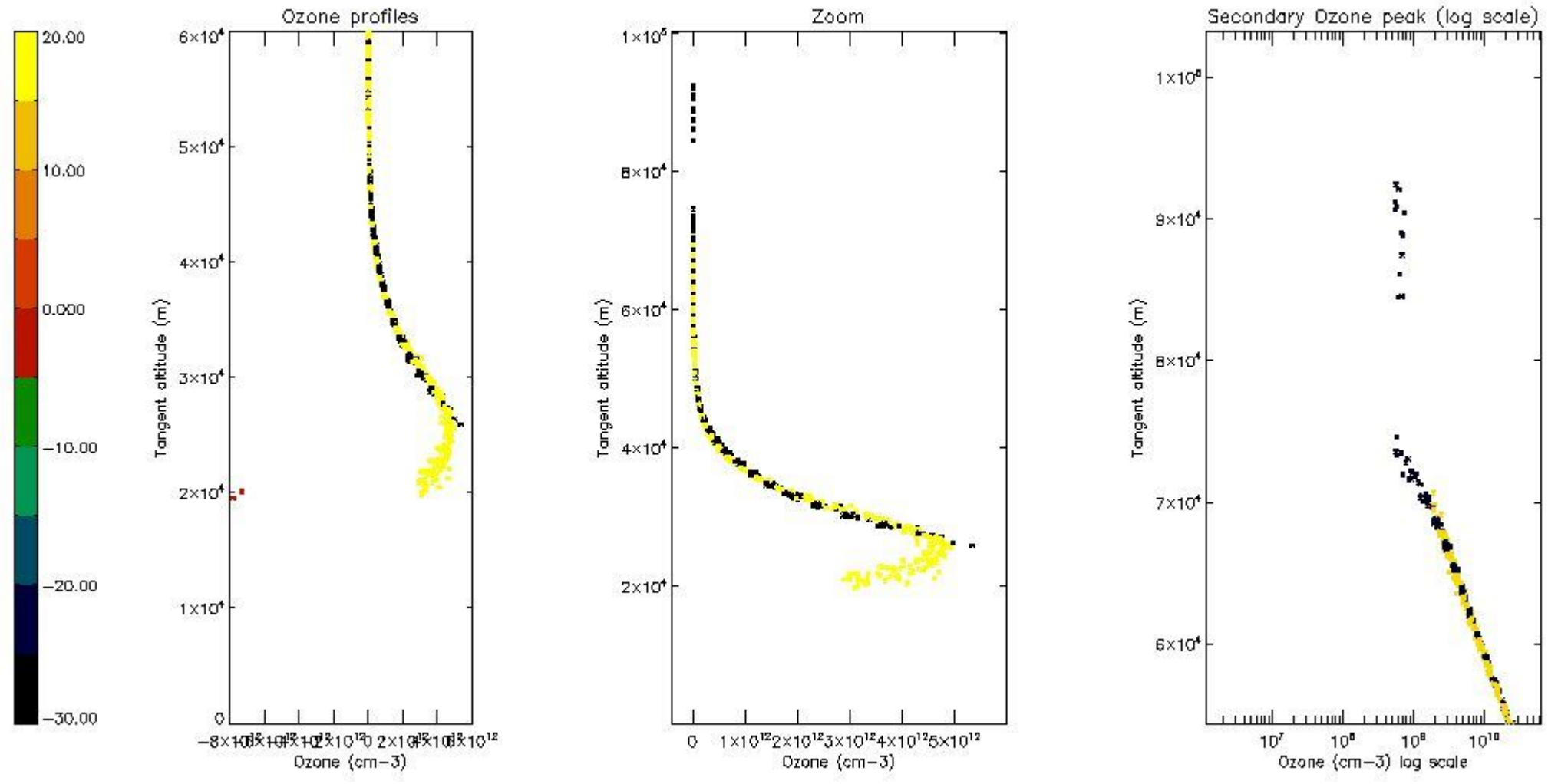
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



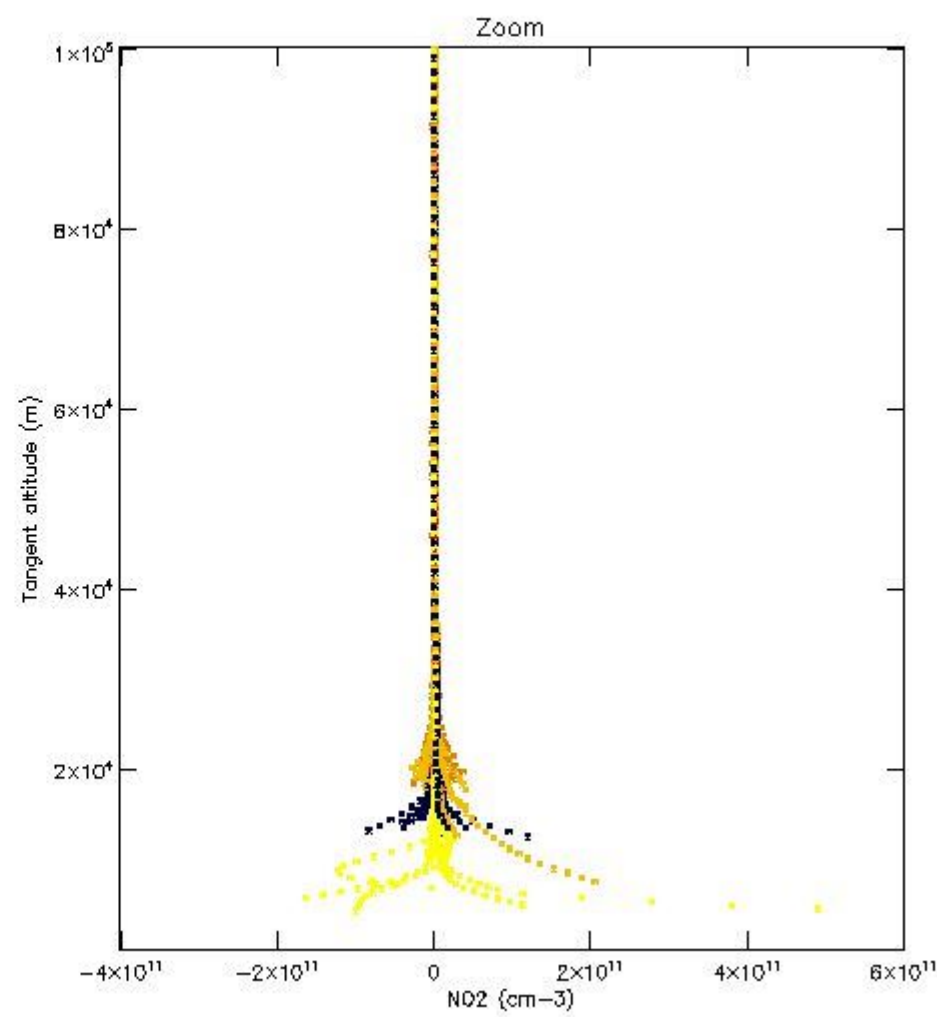
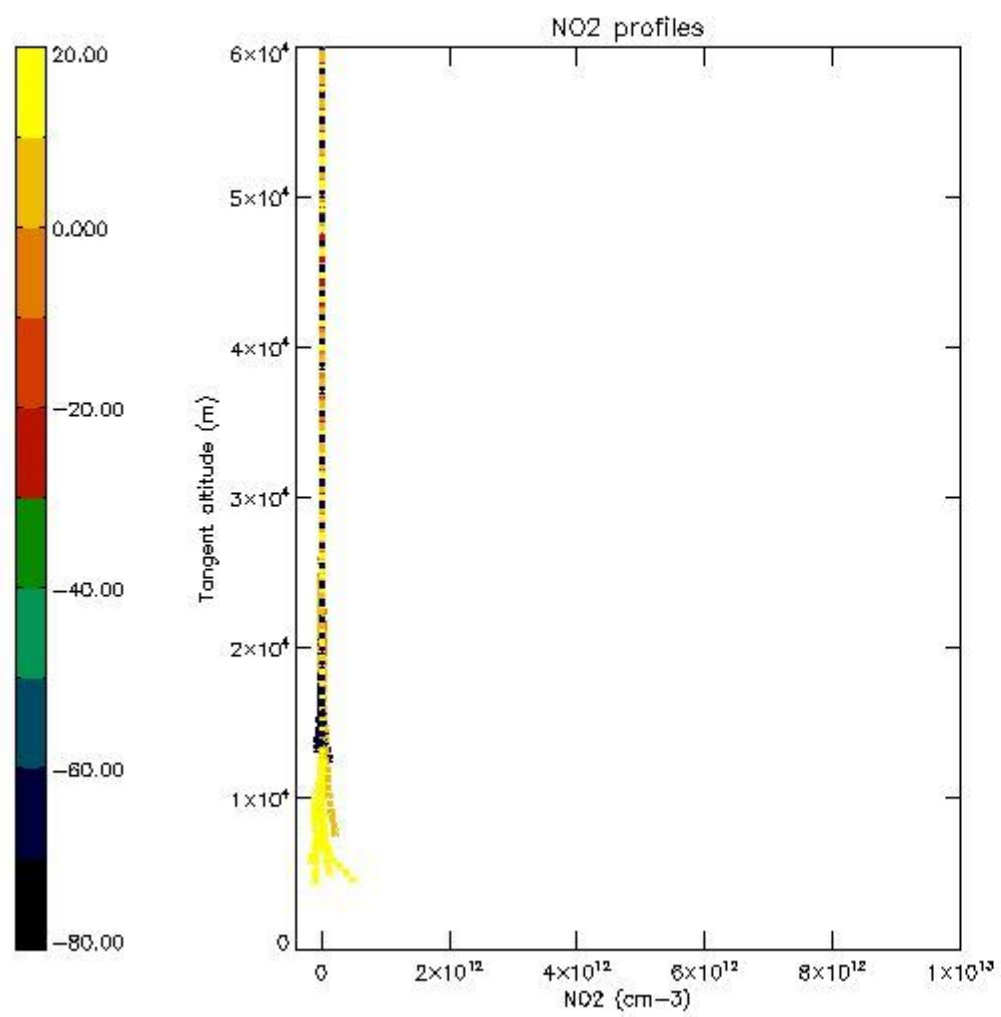
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



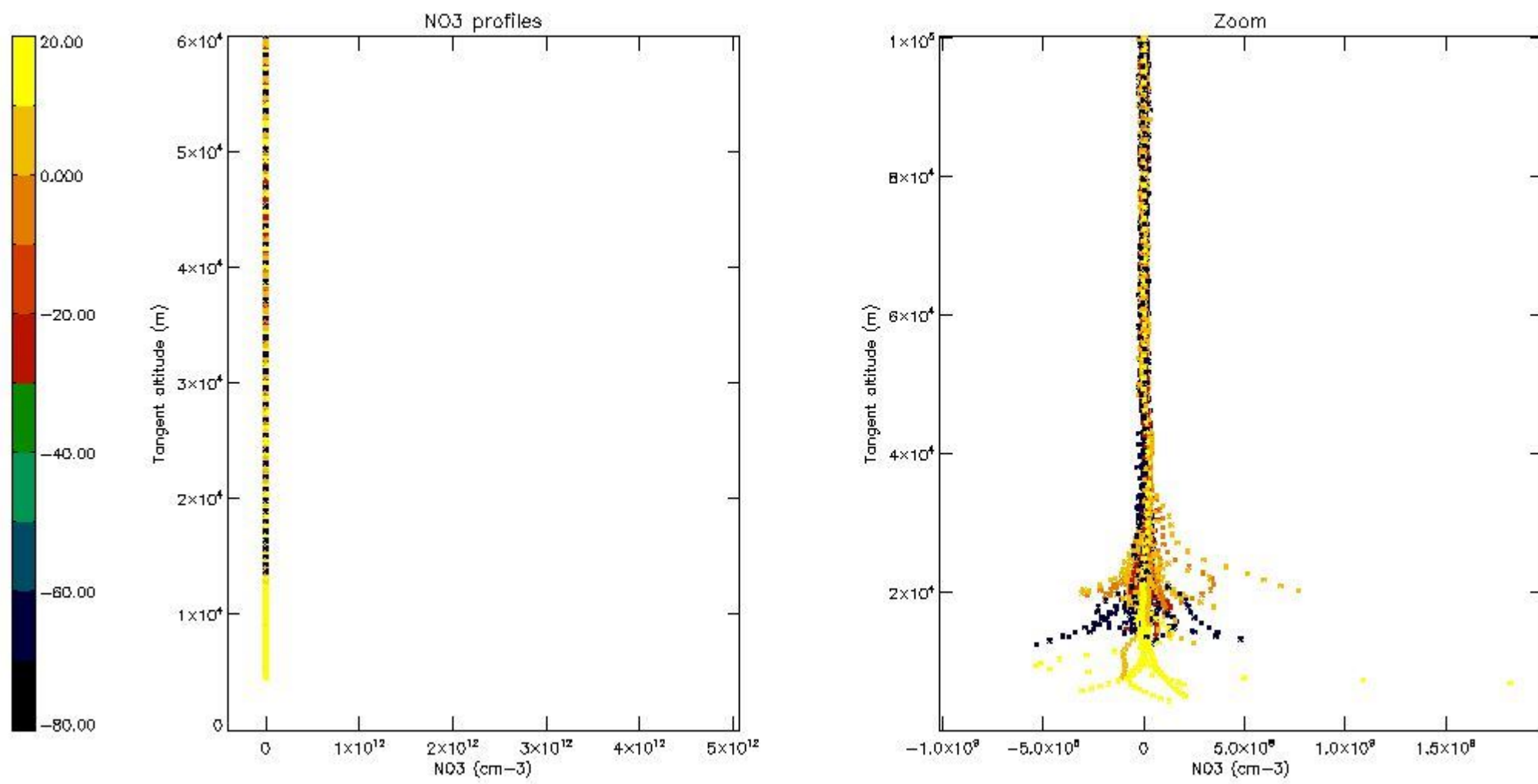
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



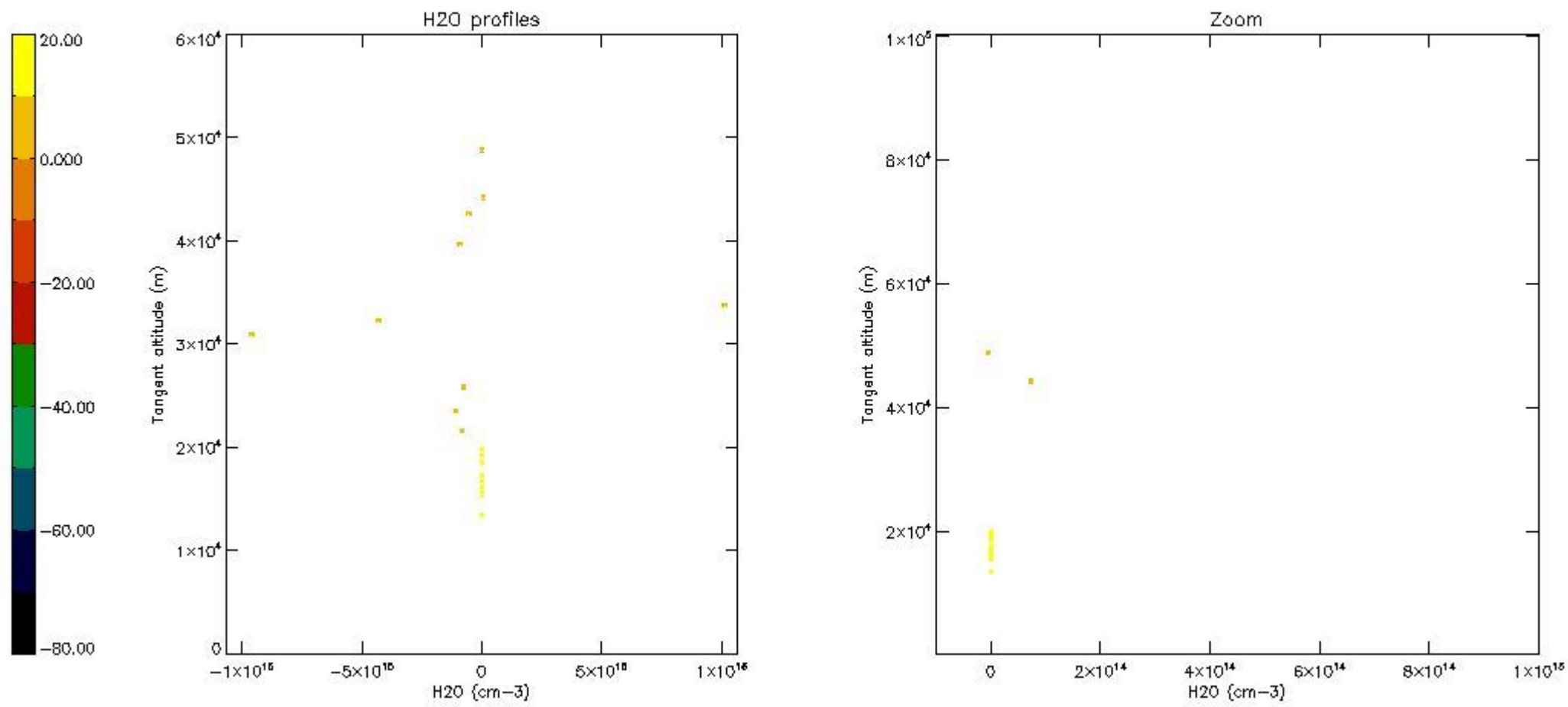
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

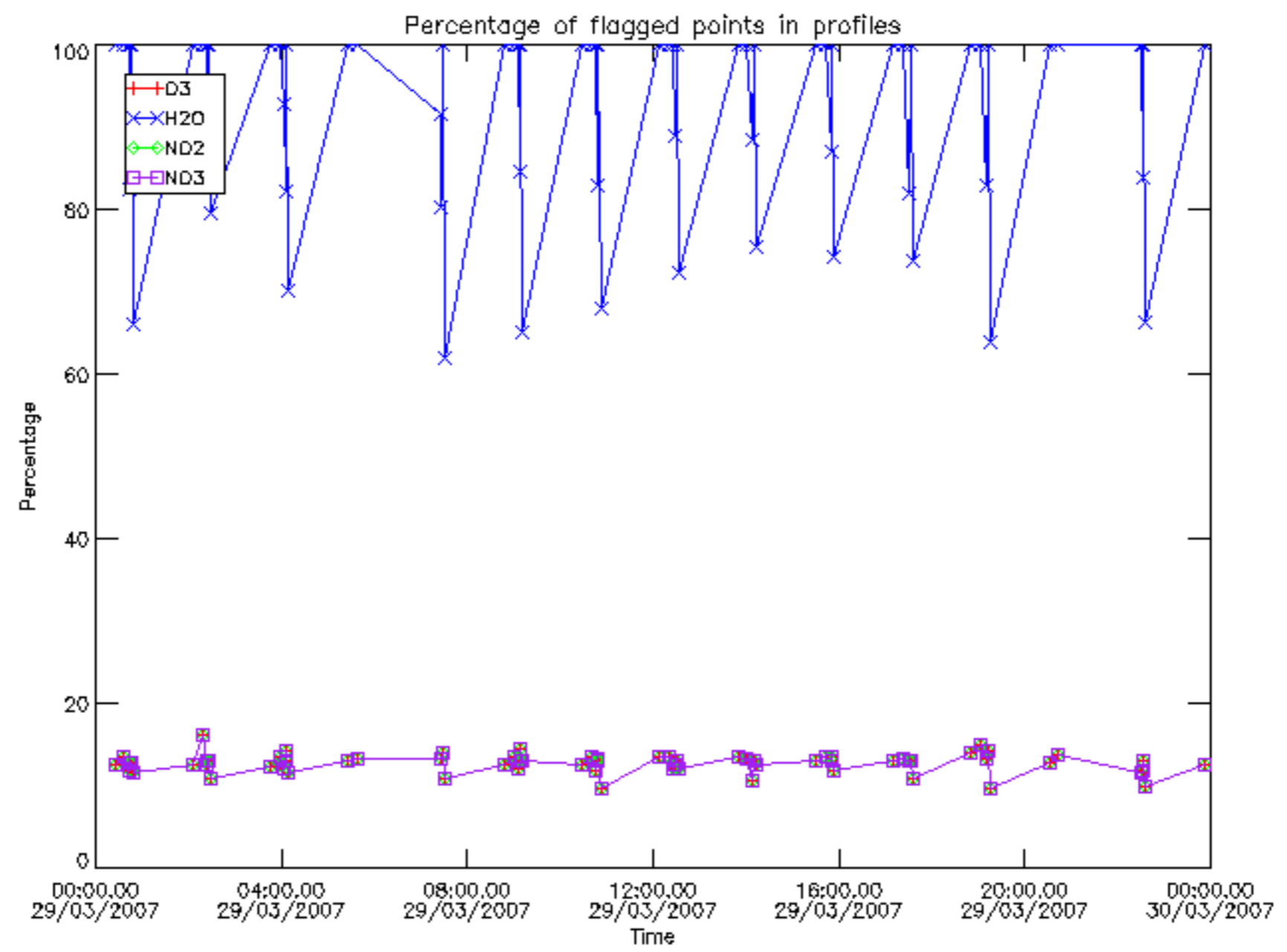
The colorbar represents the latitude.



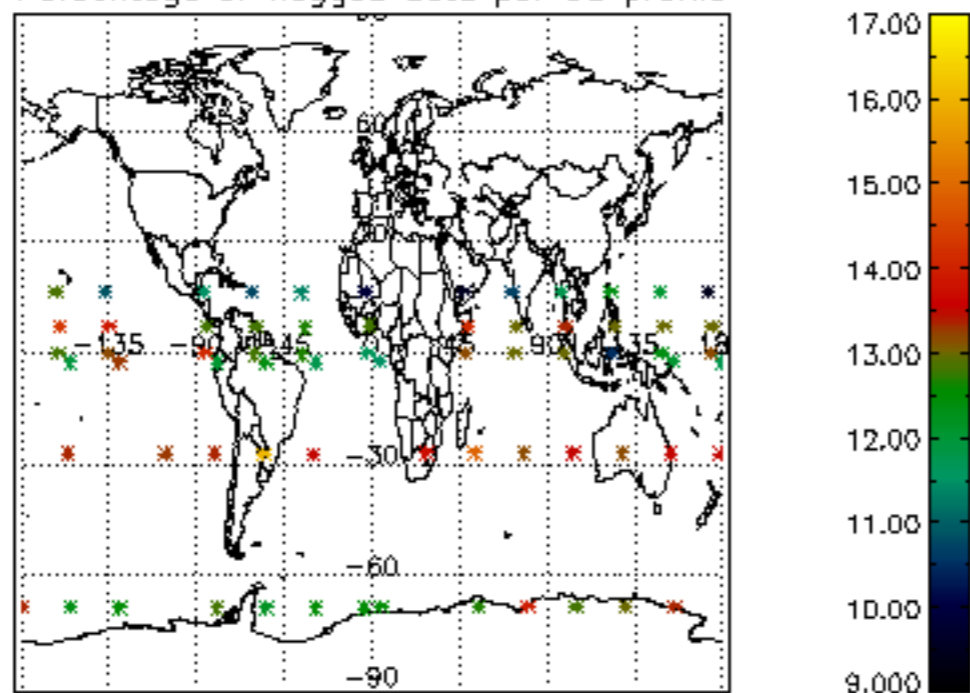
6. Auxiliary Data Files used for the production reported in section 2

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.

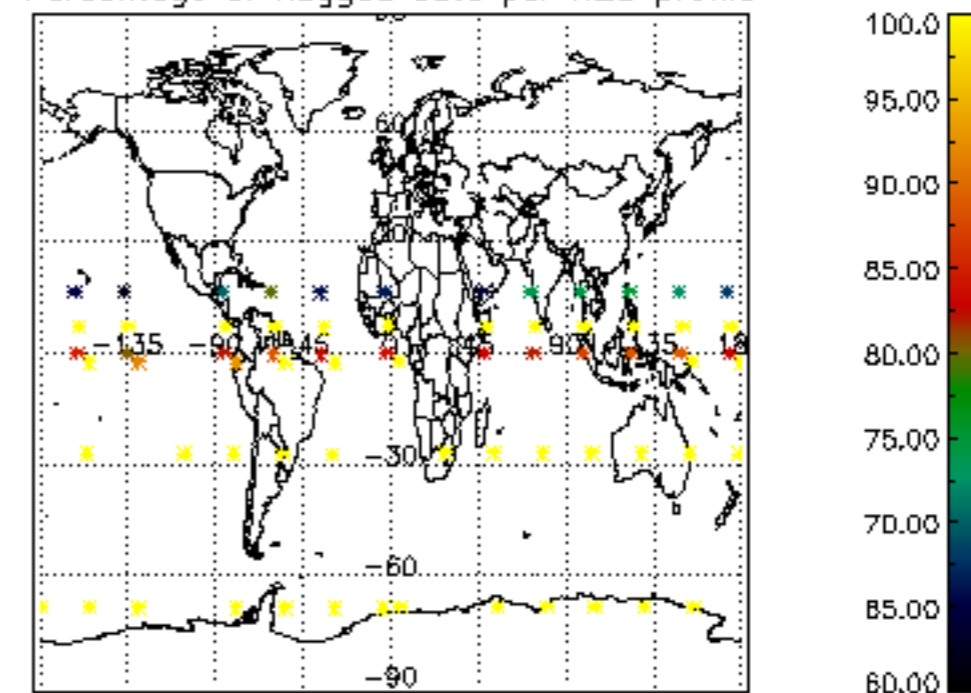
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	29-MAR-2007 00:02:05
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	29-MAR-2007 00:02:05
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	29-MAR-2007 00:02:05



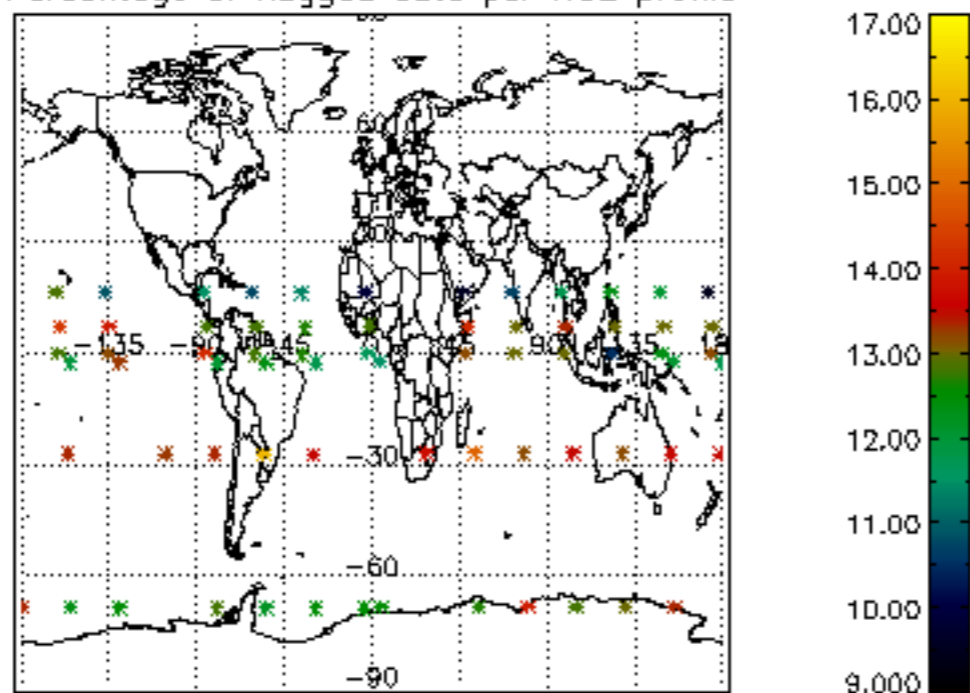
Percentage of flagged data per D3 profile



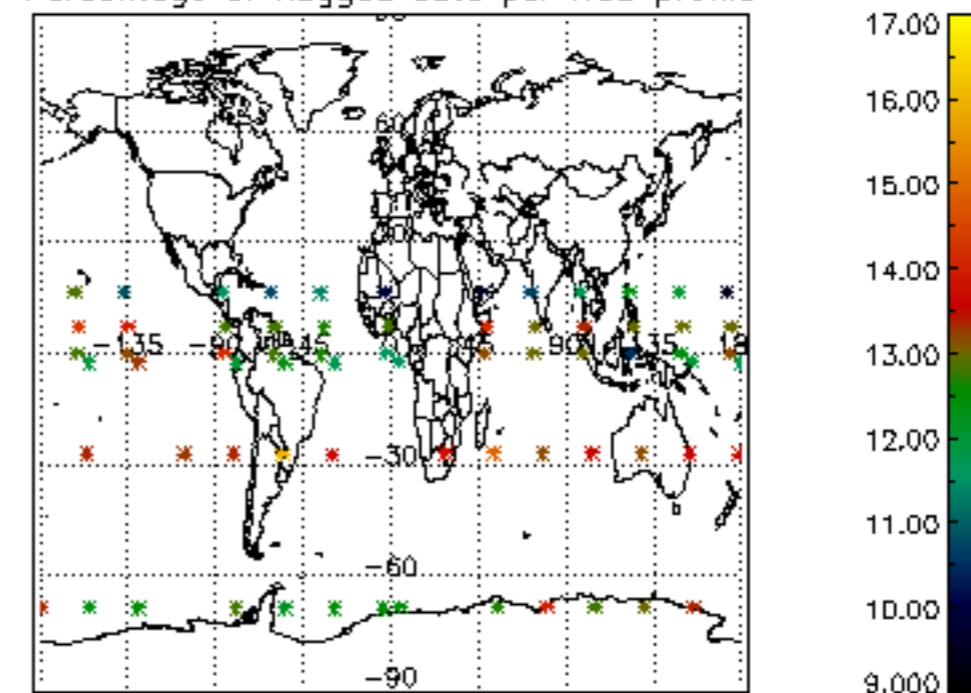
Percentage of flagged data per H2O profile

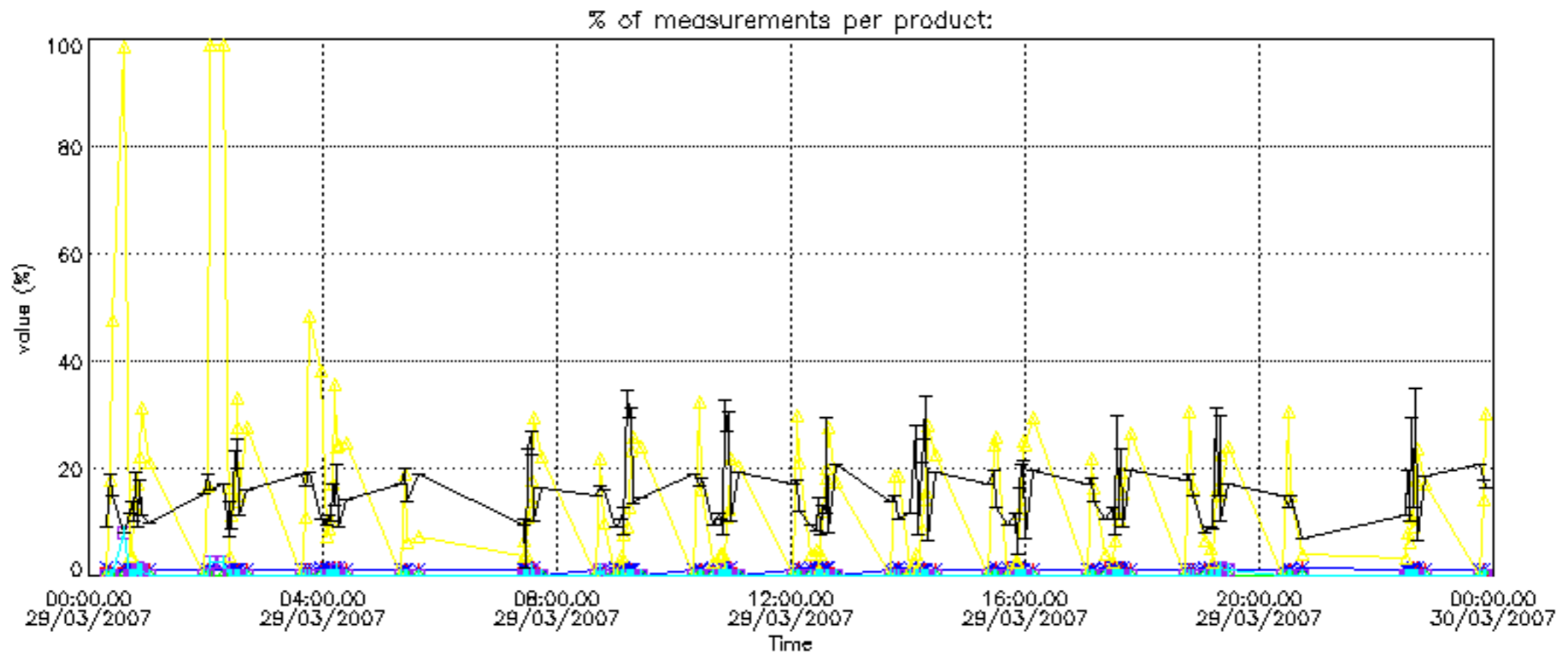


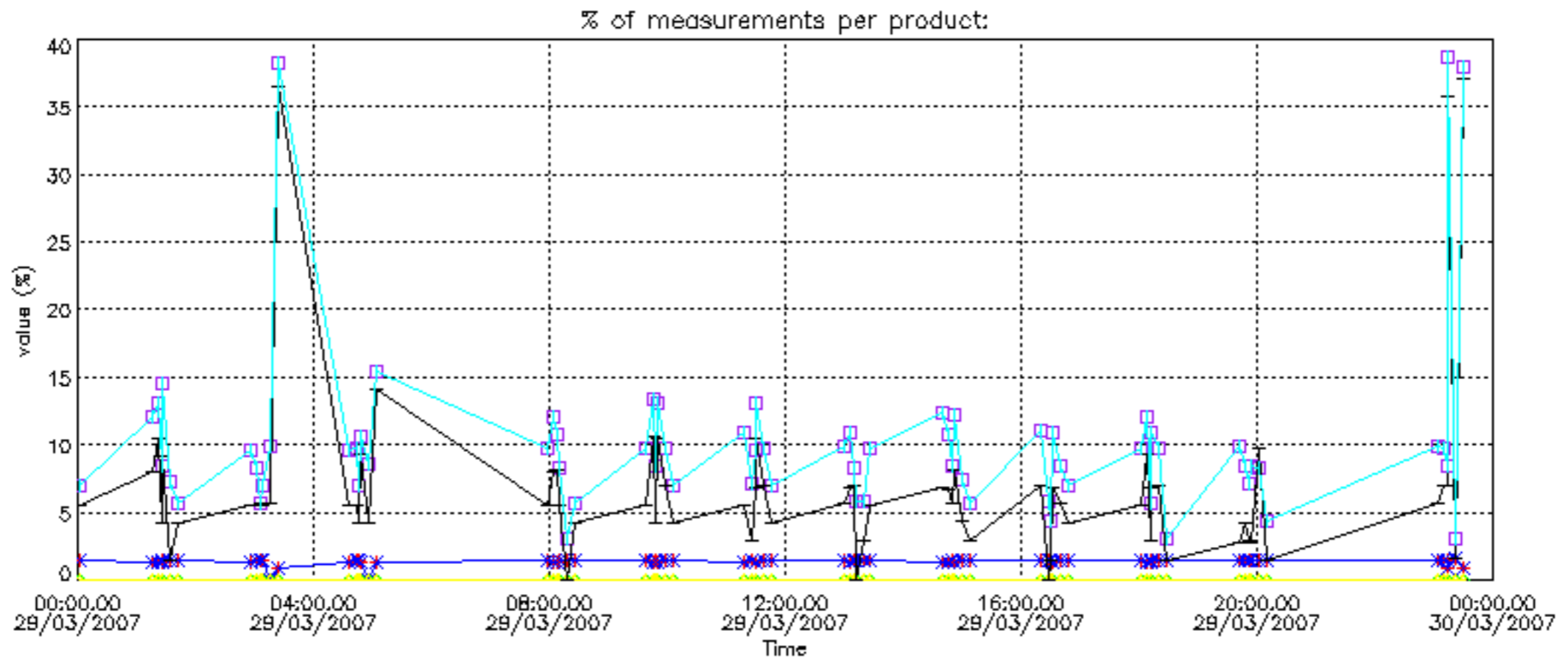
Percentage of flagged data per NO2 profile



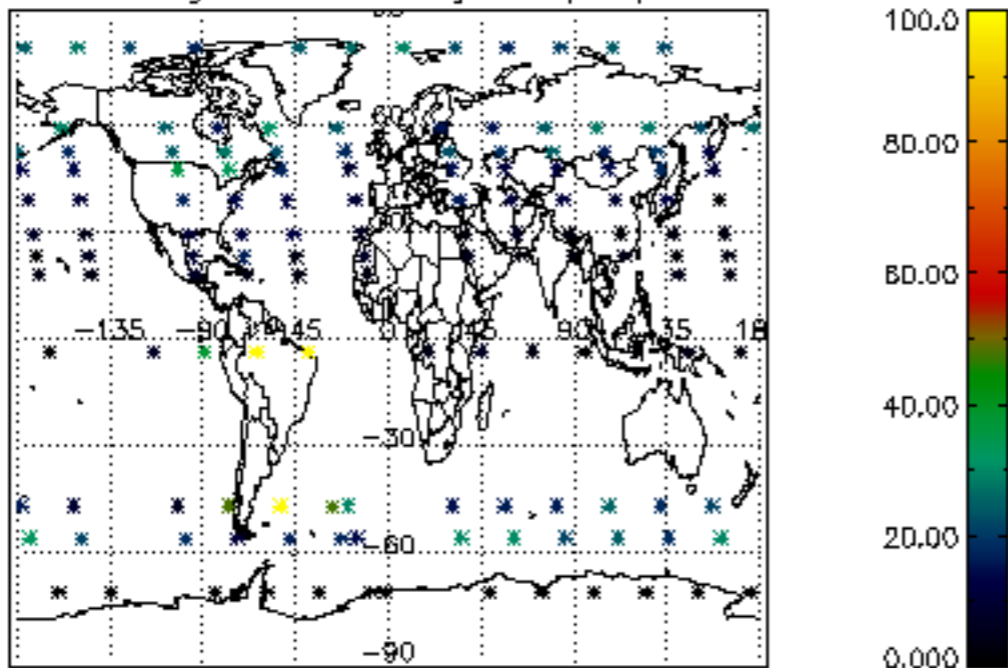
Percentage of flagged data per NO3 profile



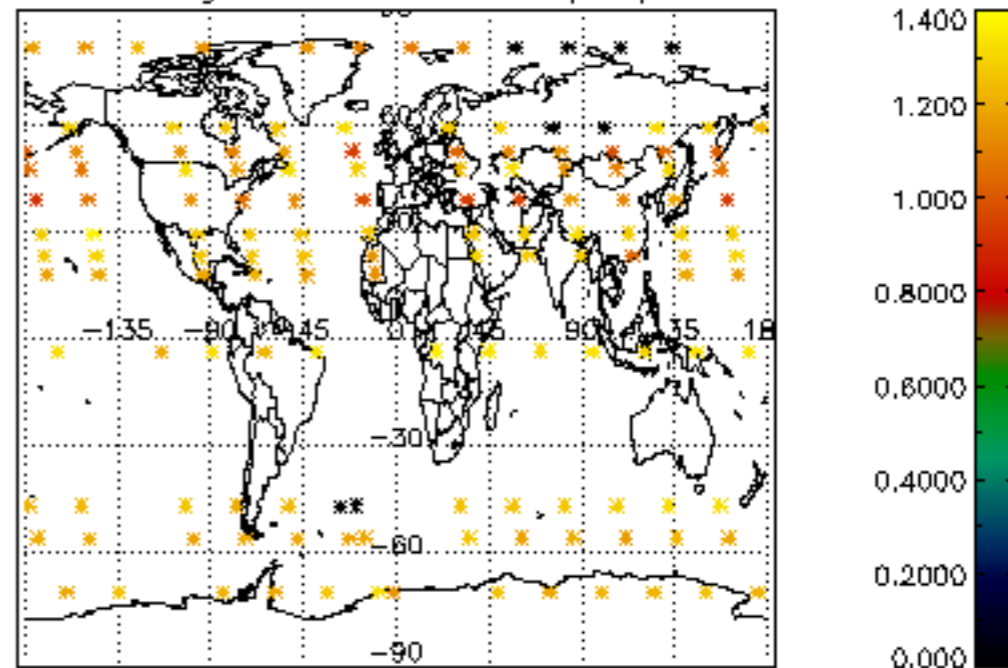




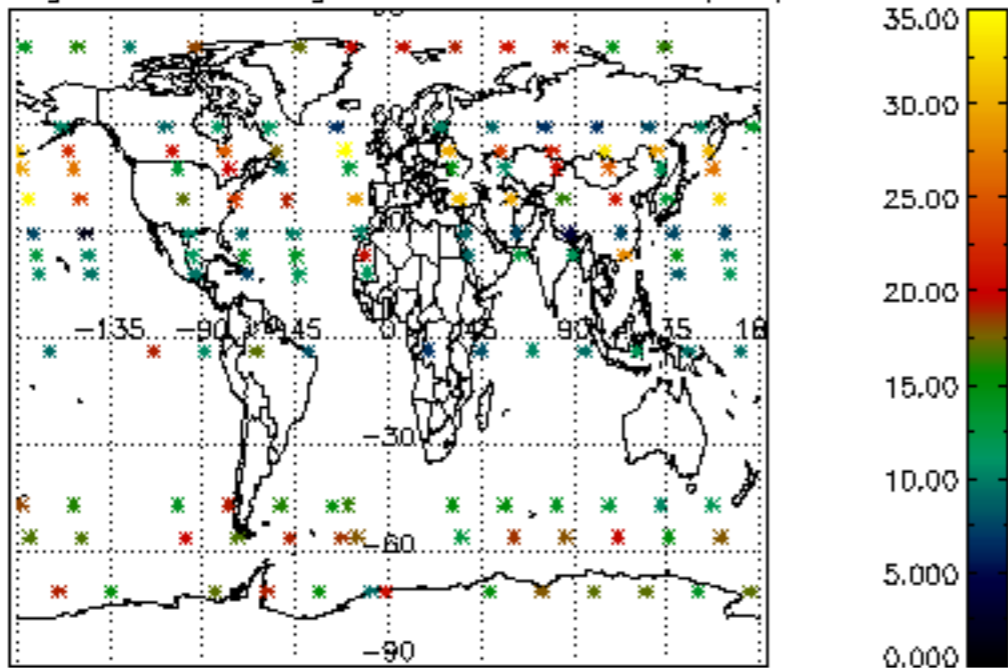
Percentage of cosmic ray hits per profile



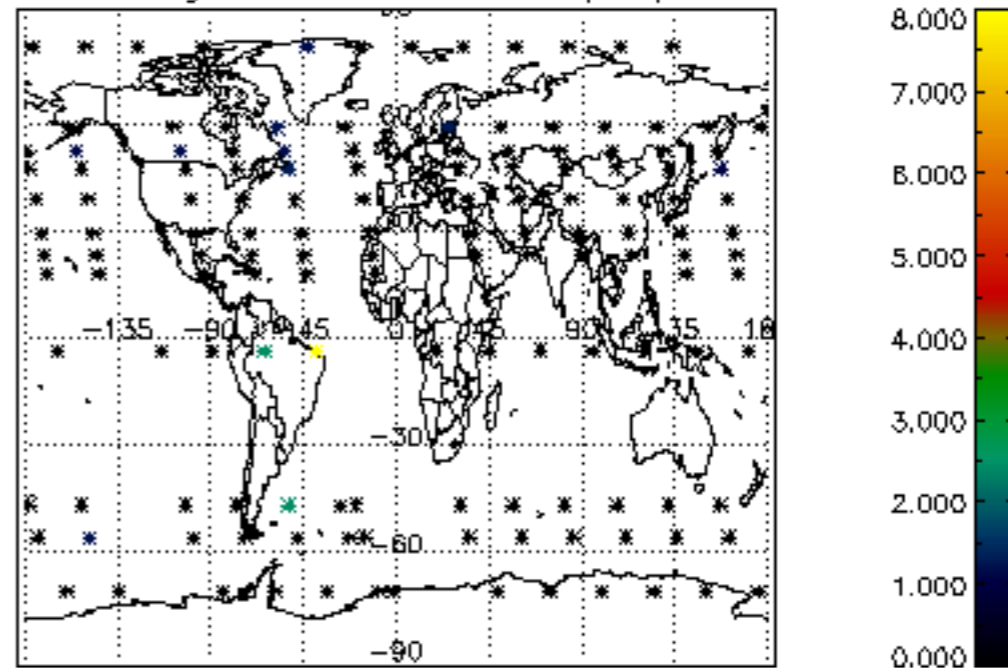
Percentage of datation errors per profile



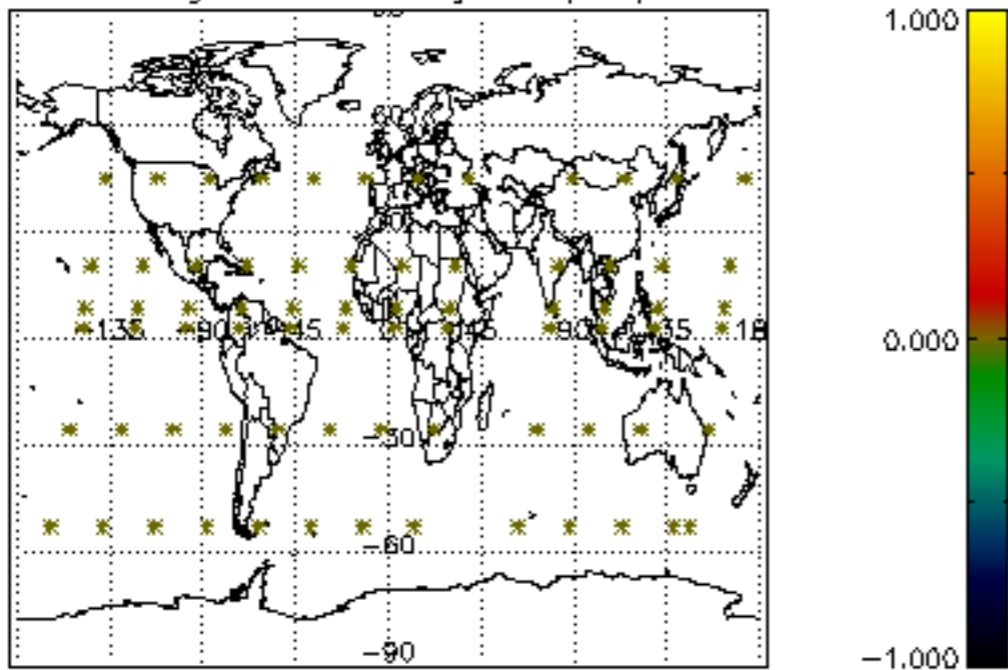
Percentage of star falling outside central band per profile



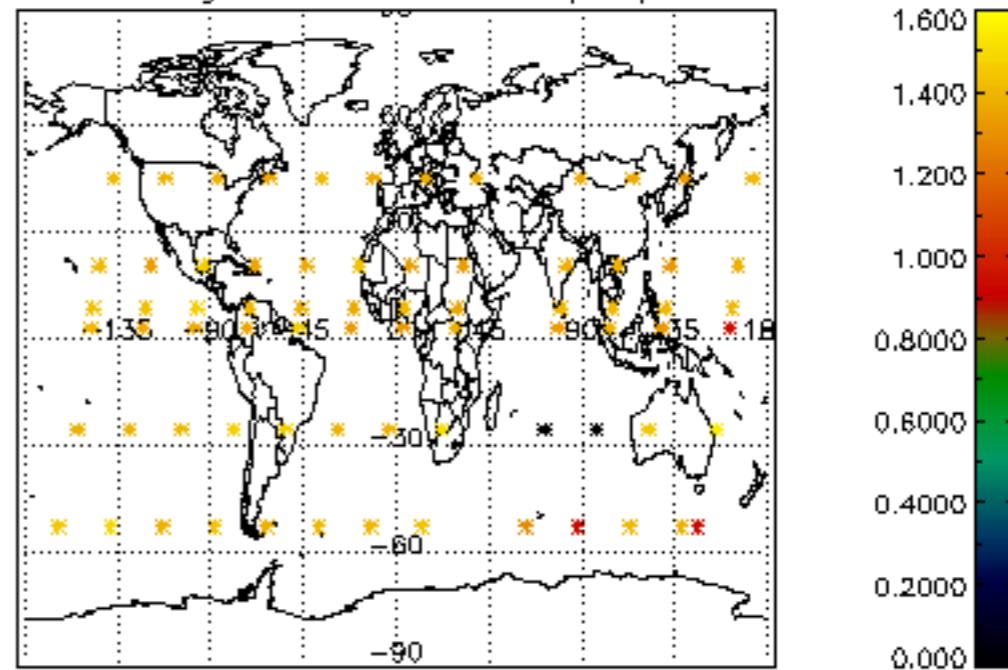
Percentage of saturation errors per profile



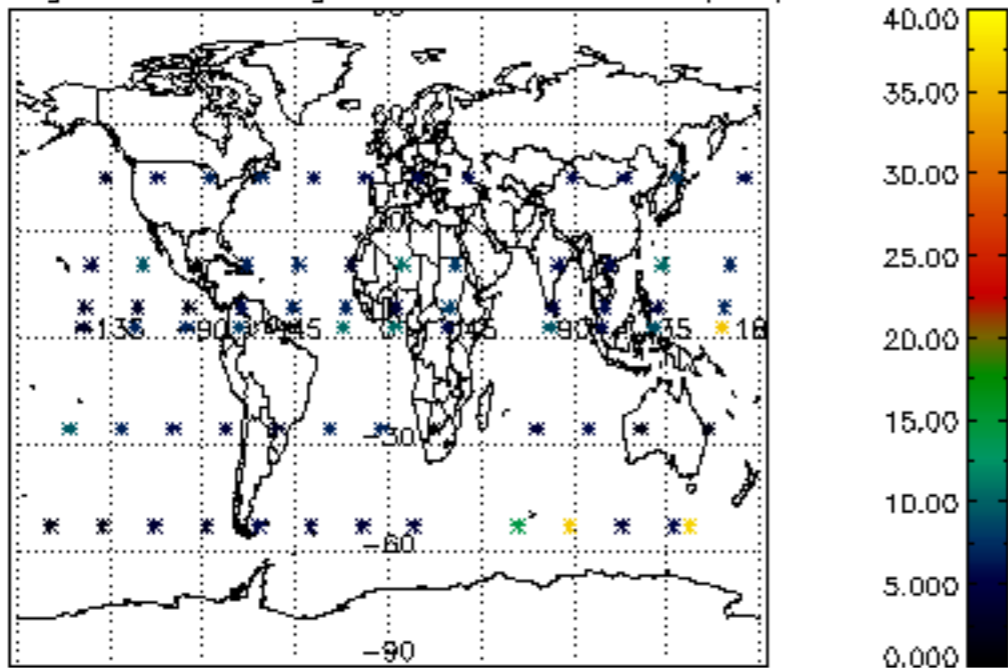
Percentage of cosmic ray hits per profile



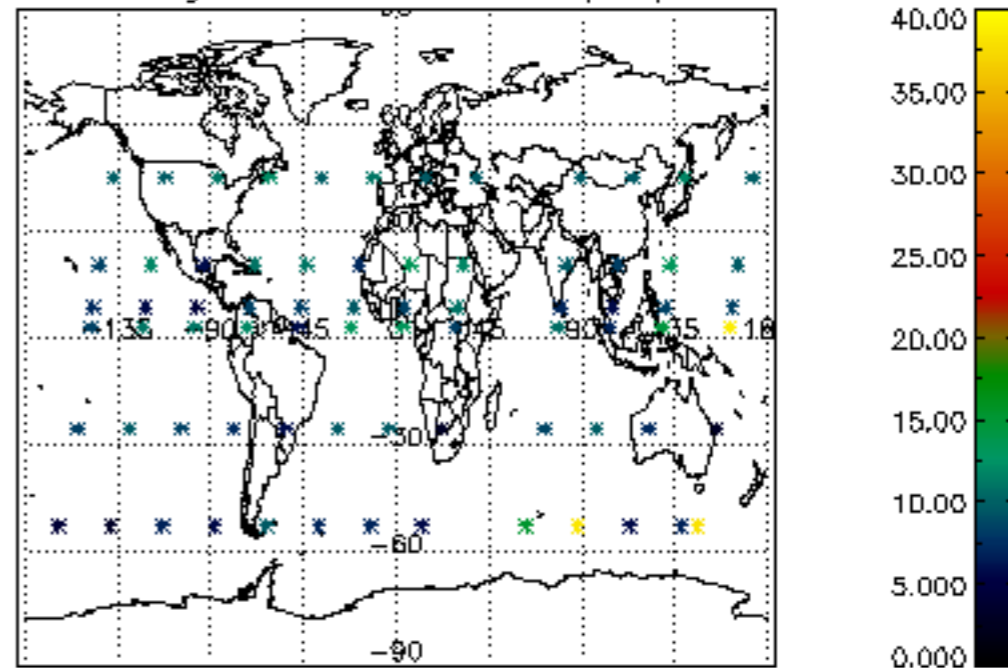
Percentage of datation errors per profile

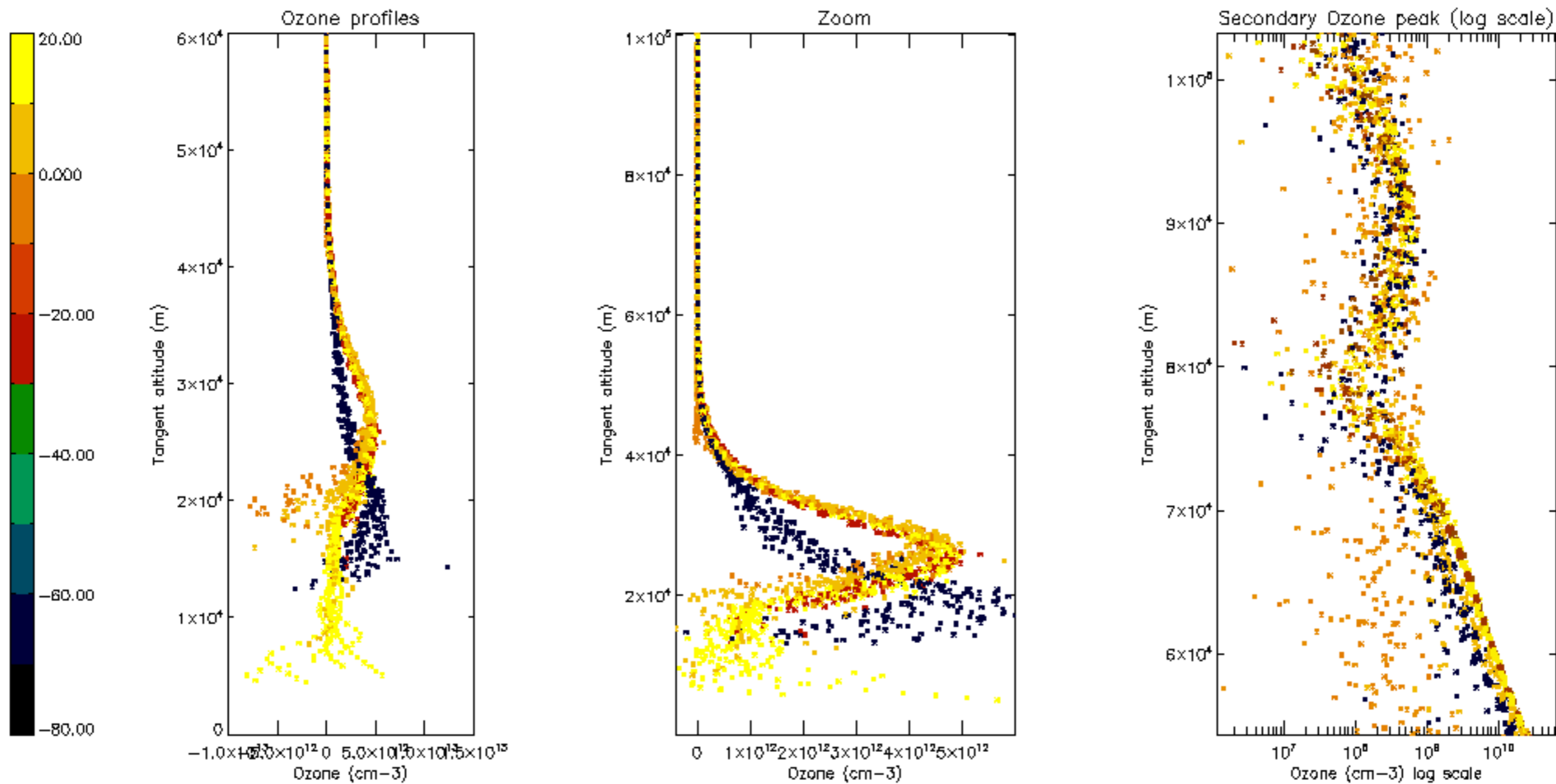


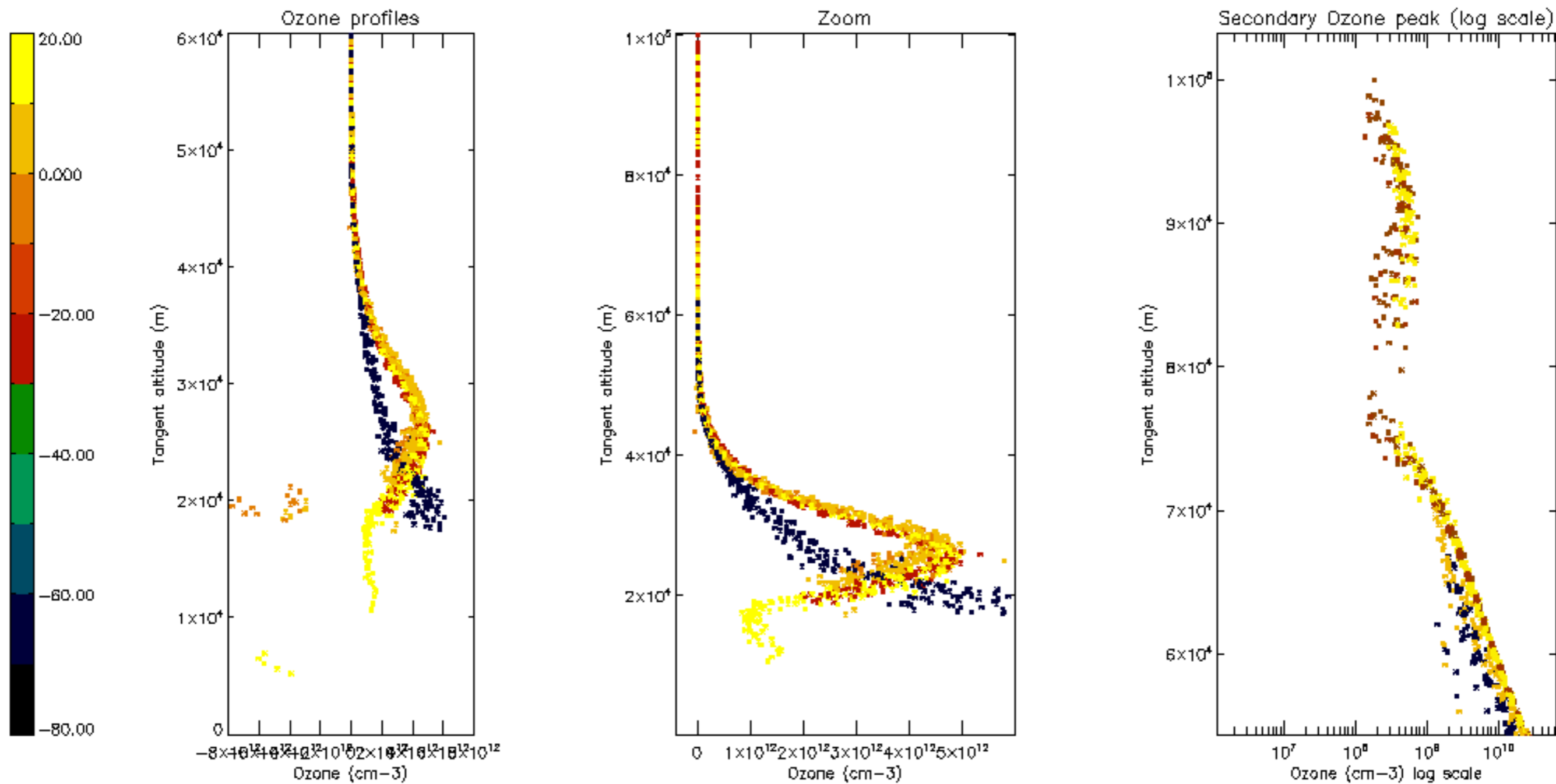
Percentage of star falling outside central band per profile

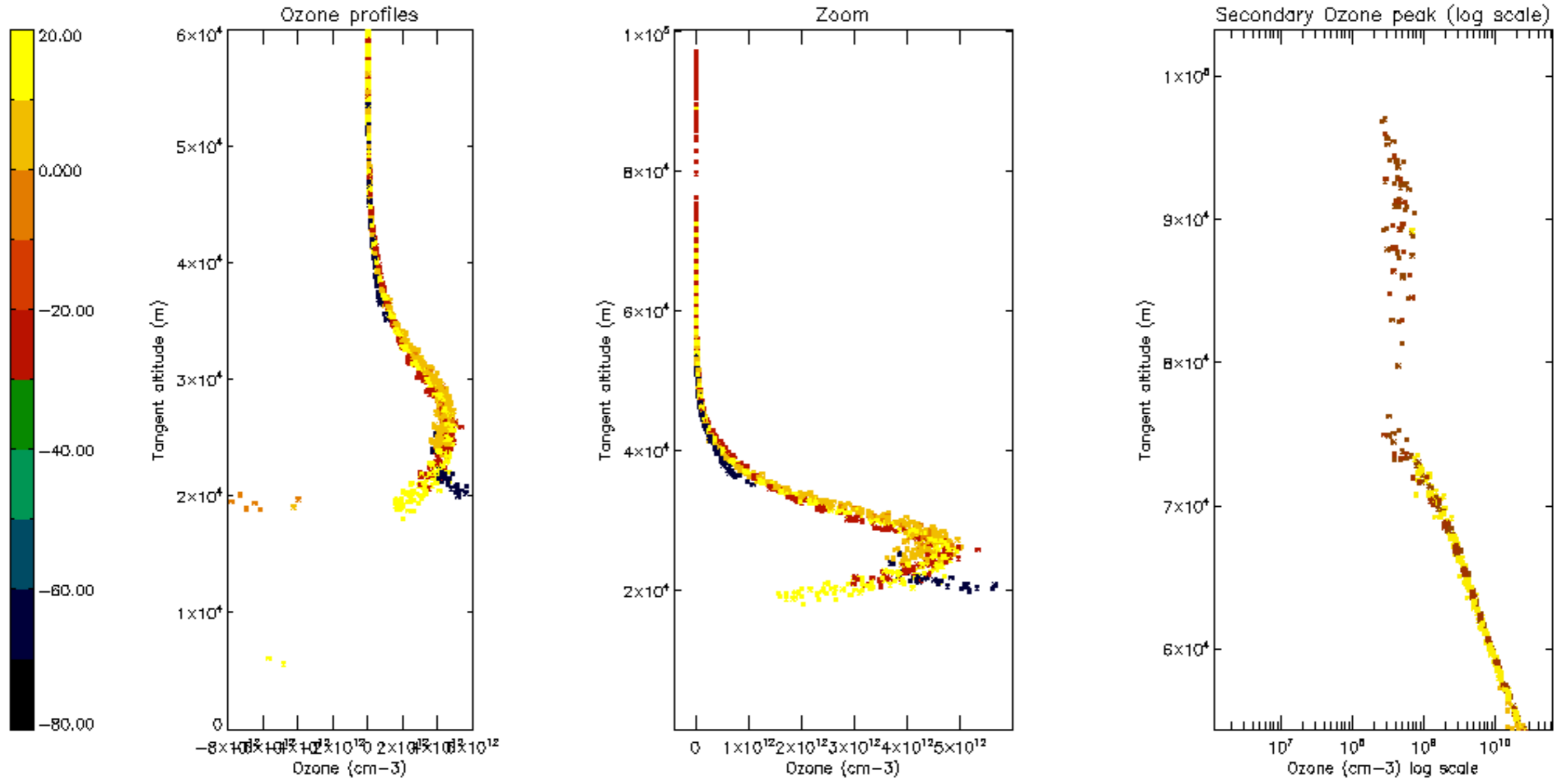


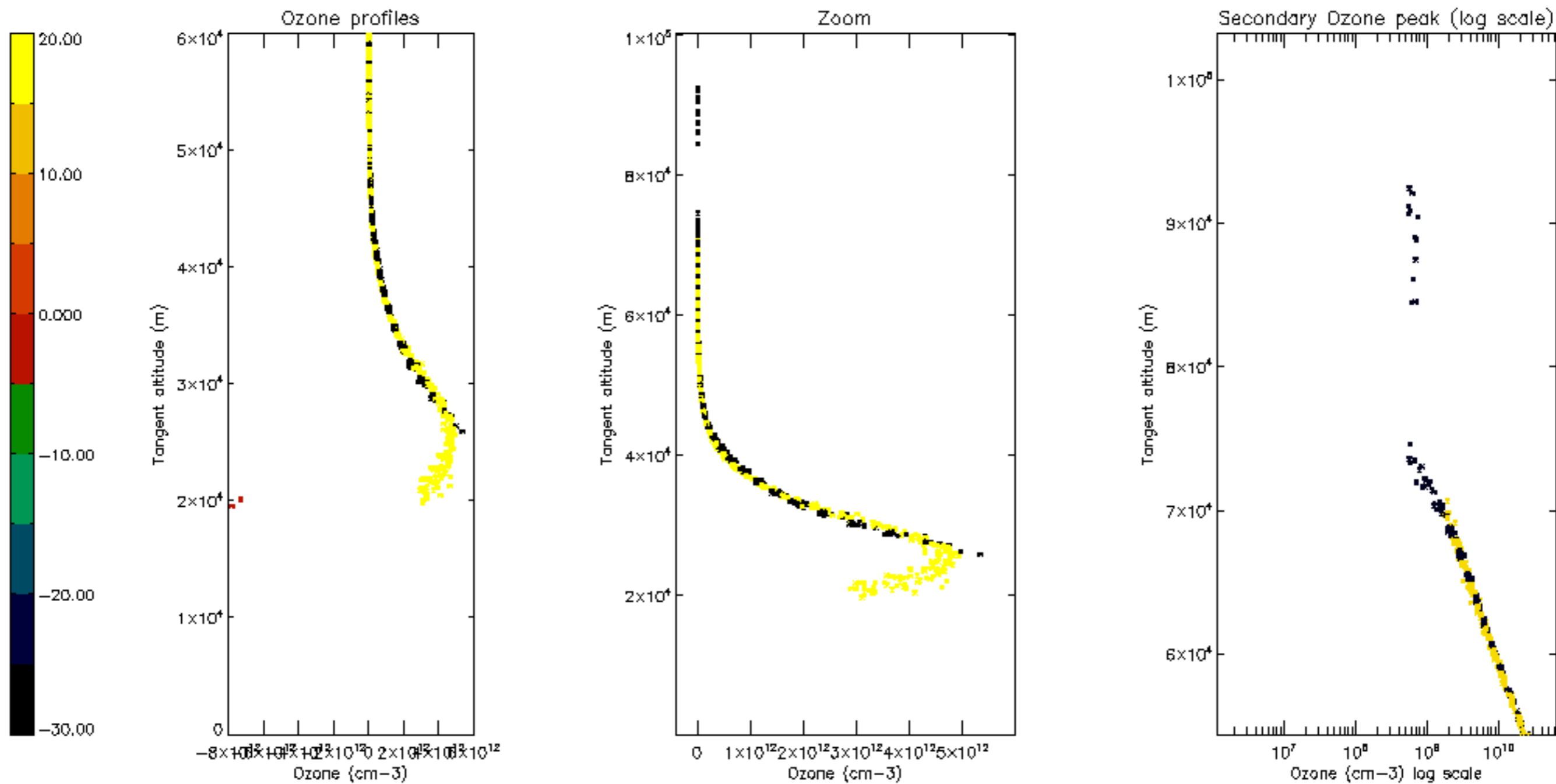
Percentage of saturation errors per profile

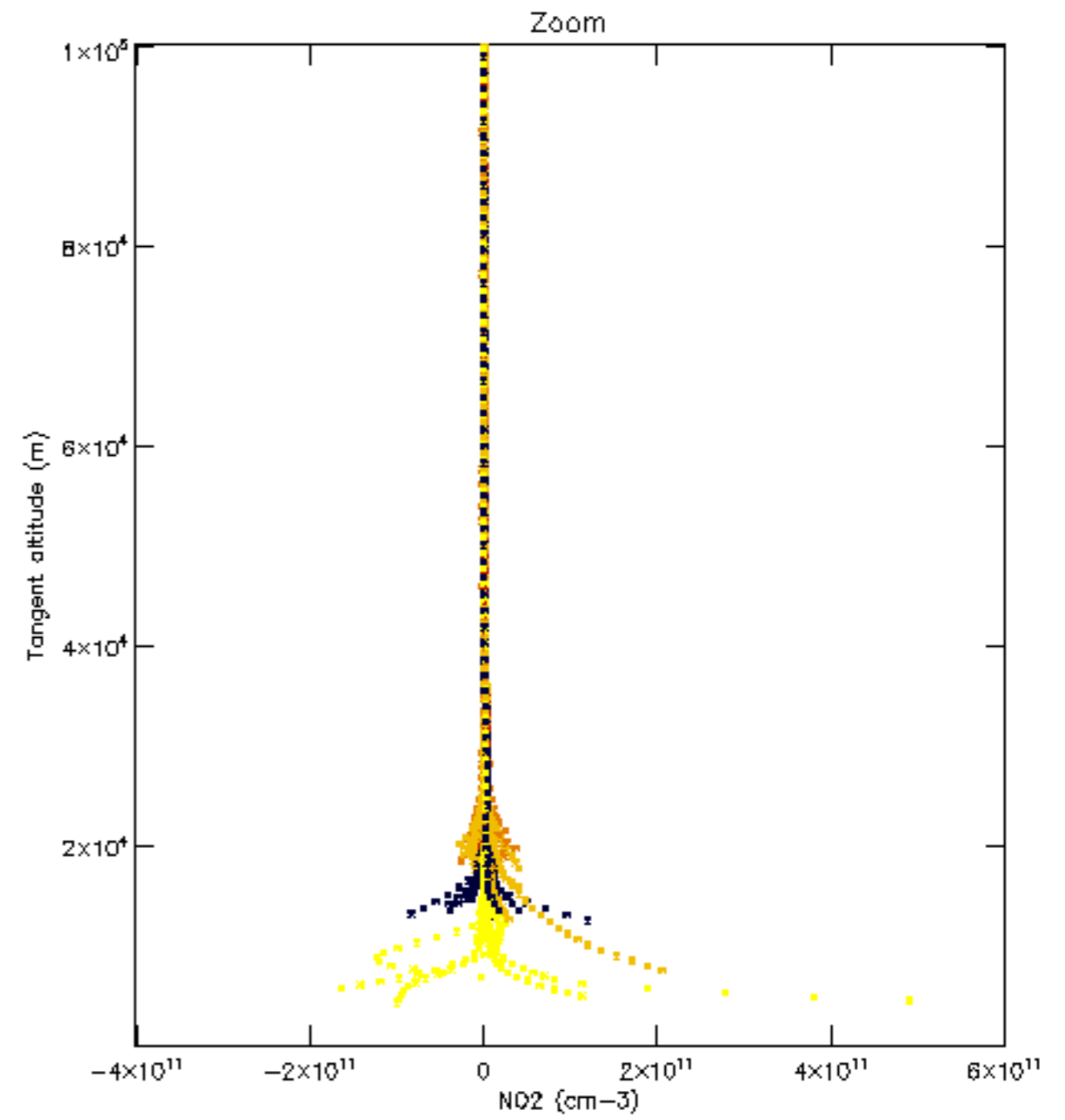
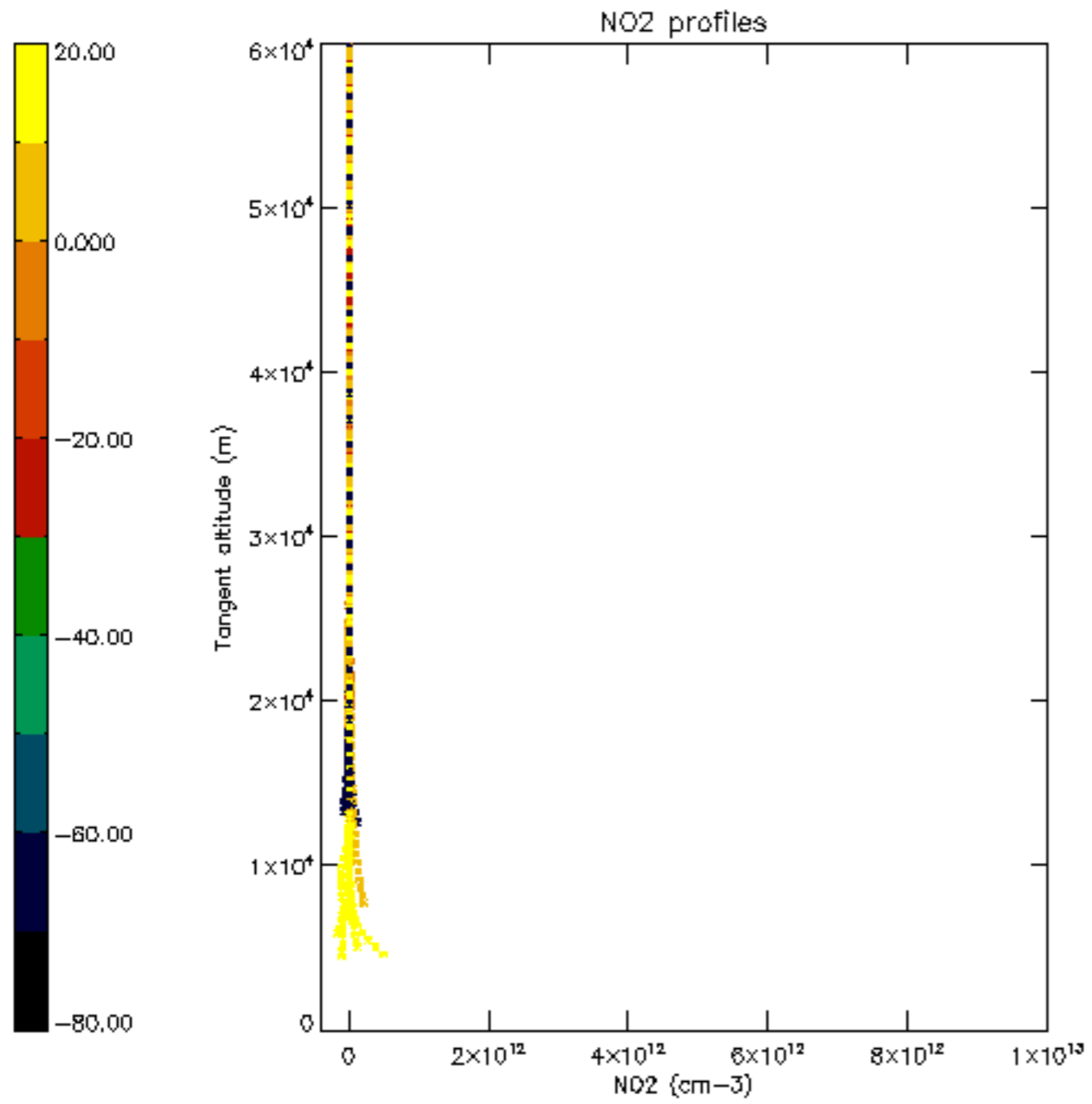


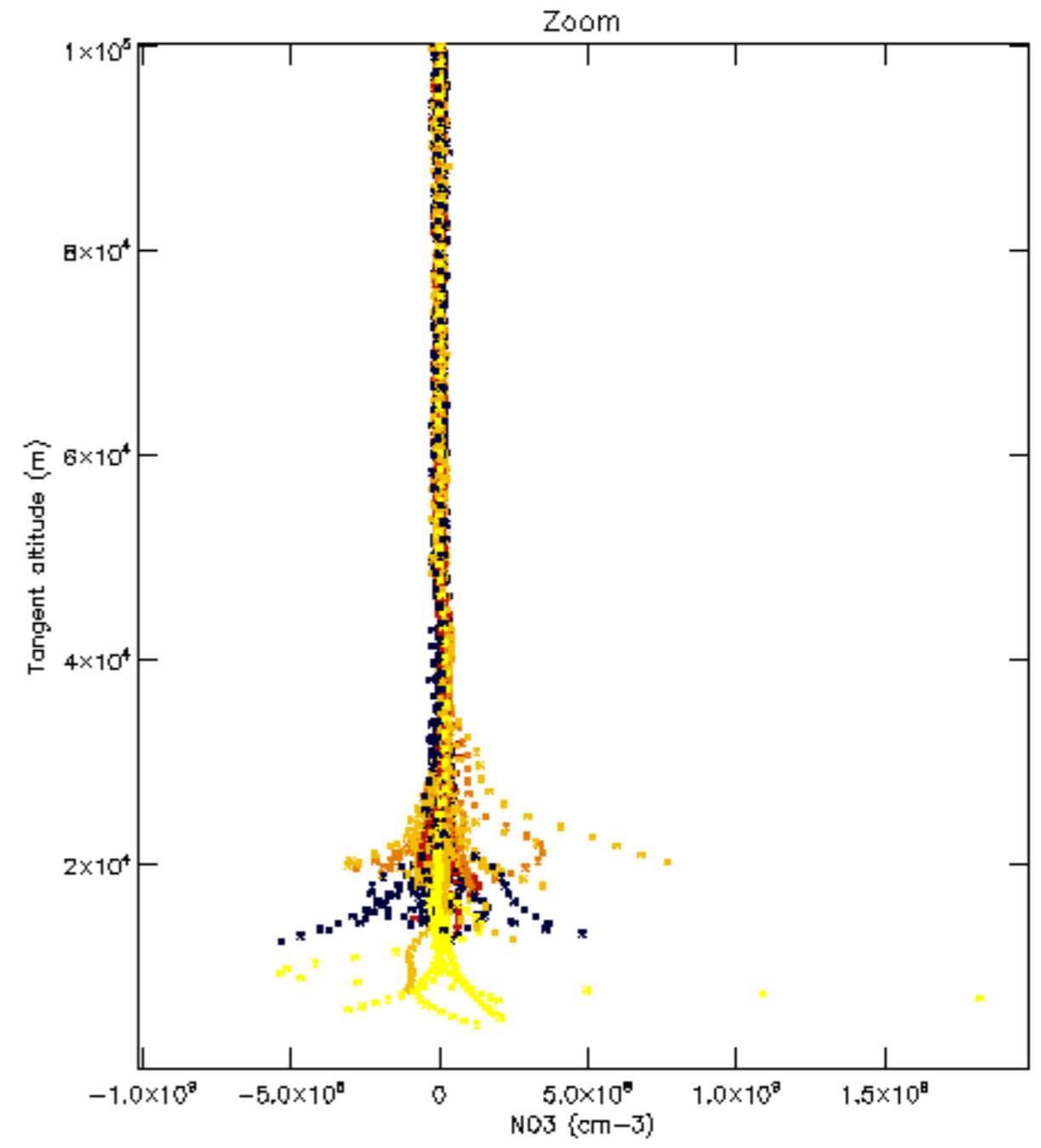
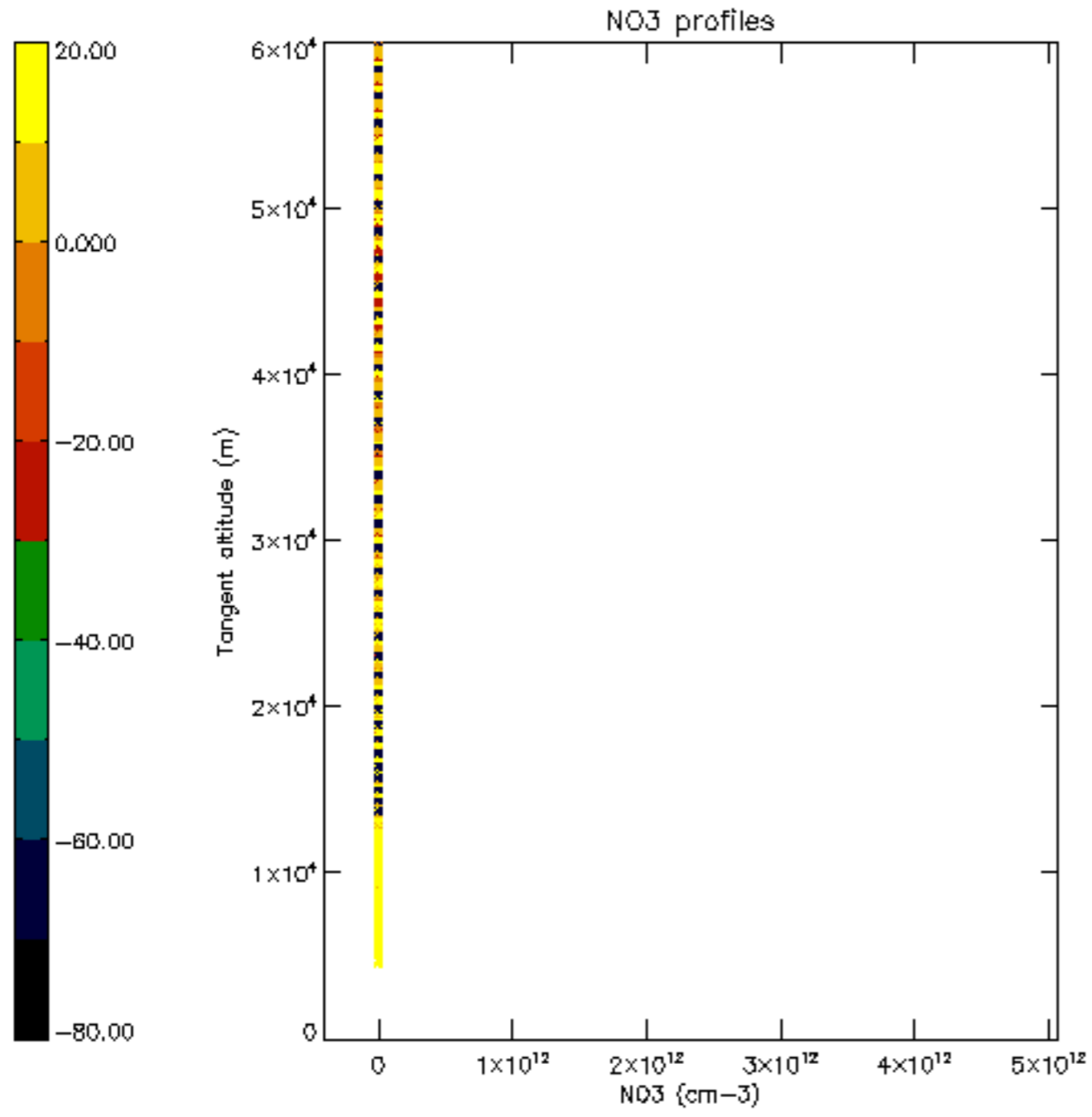


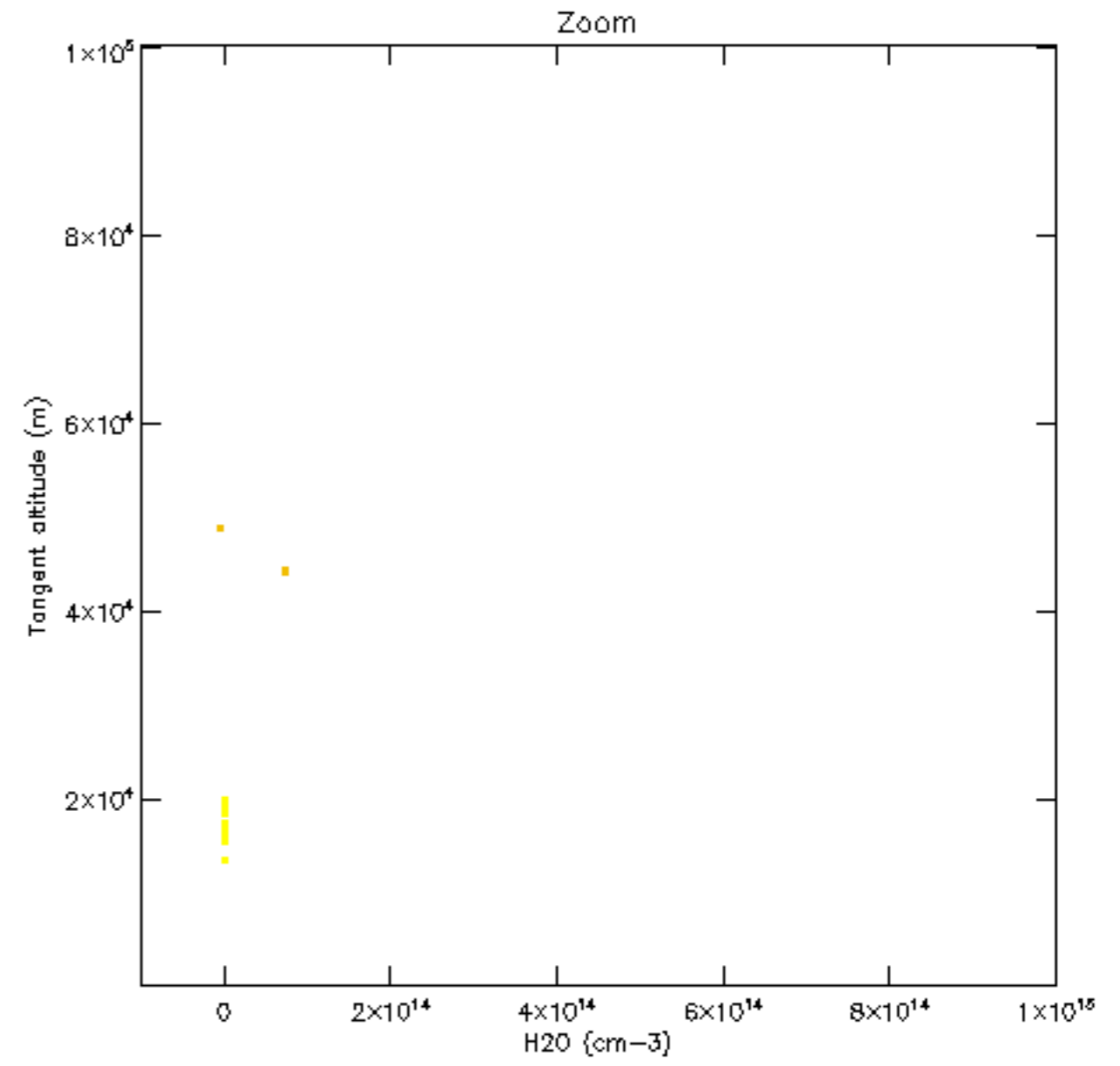
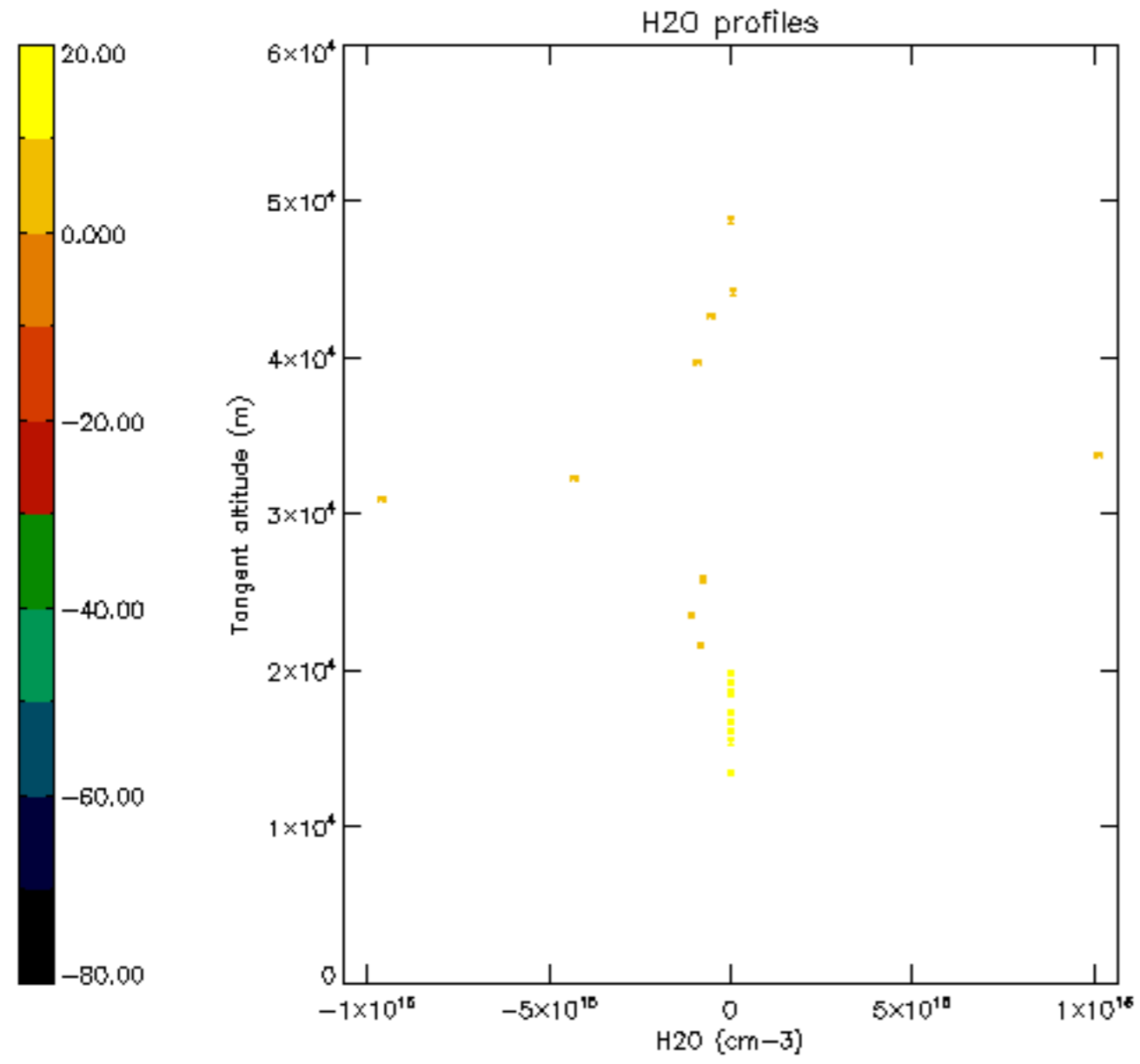


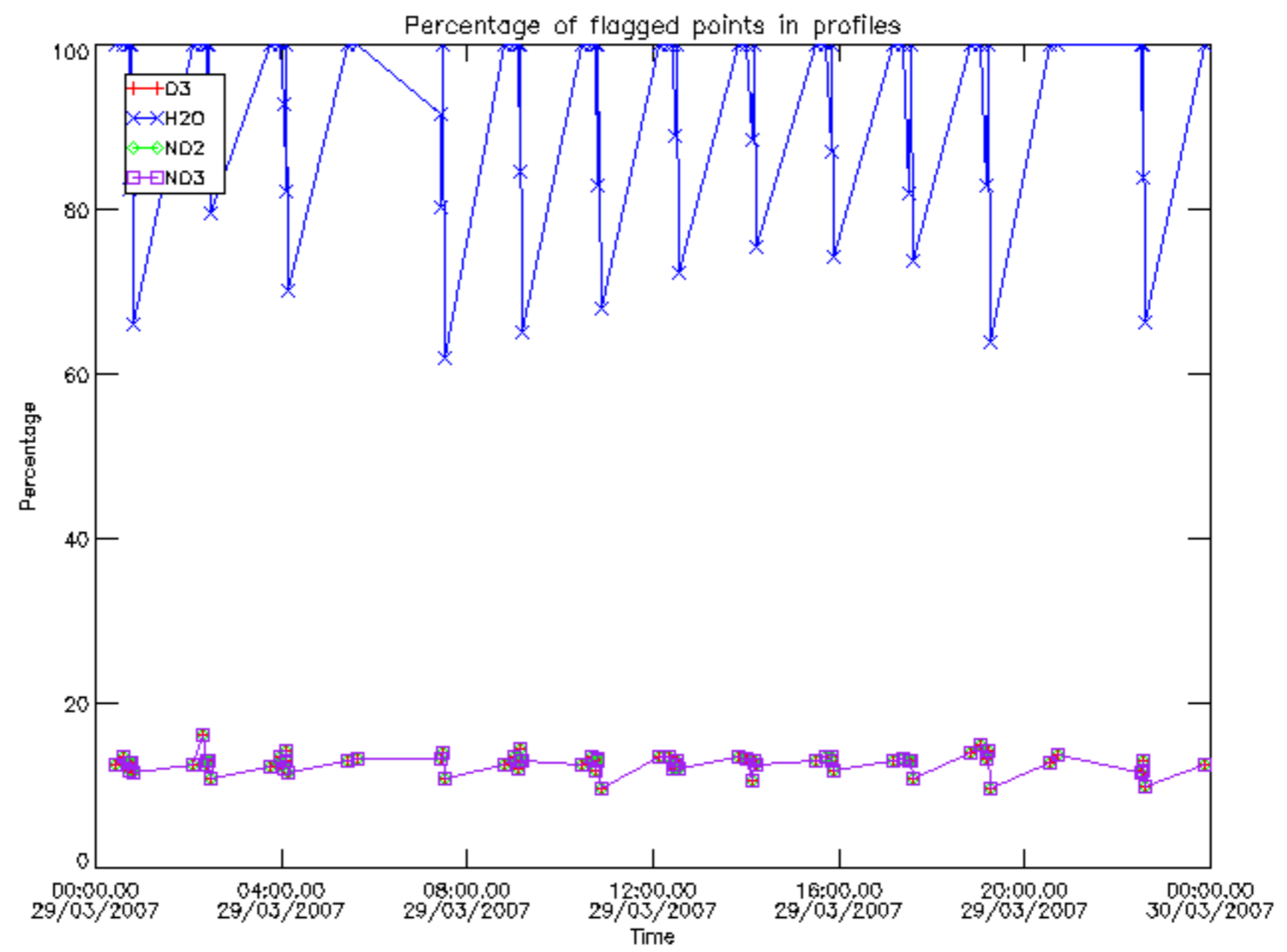




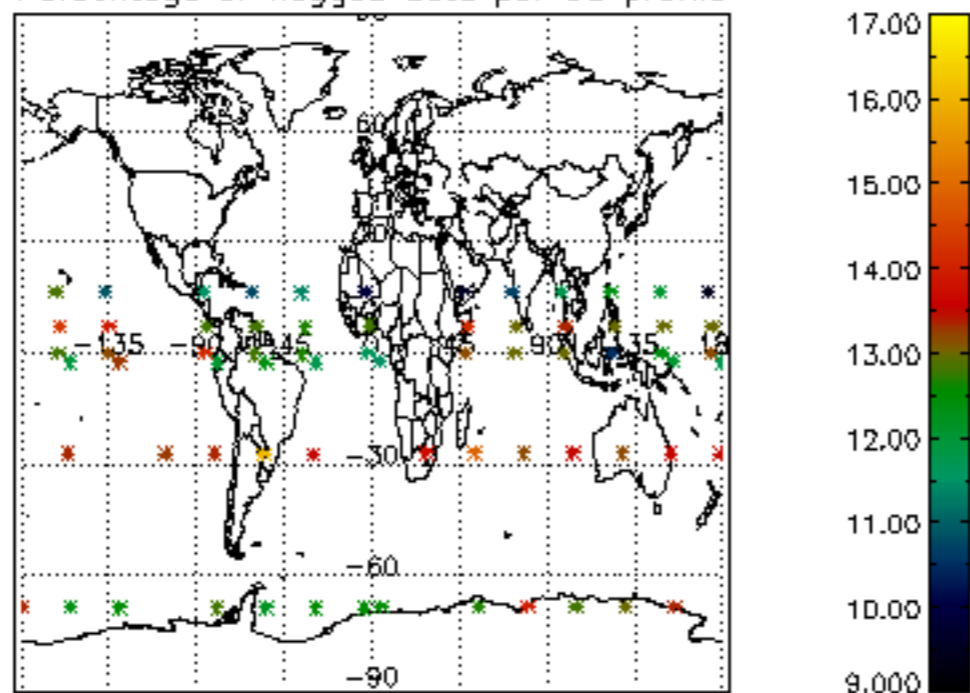




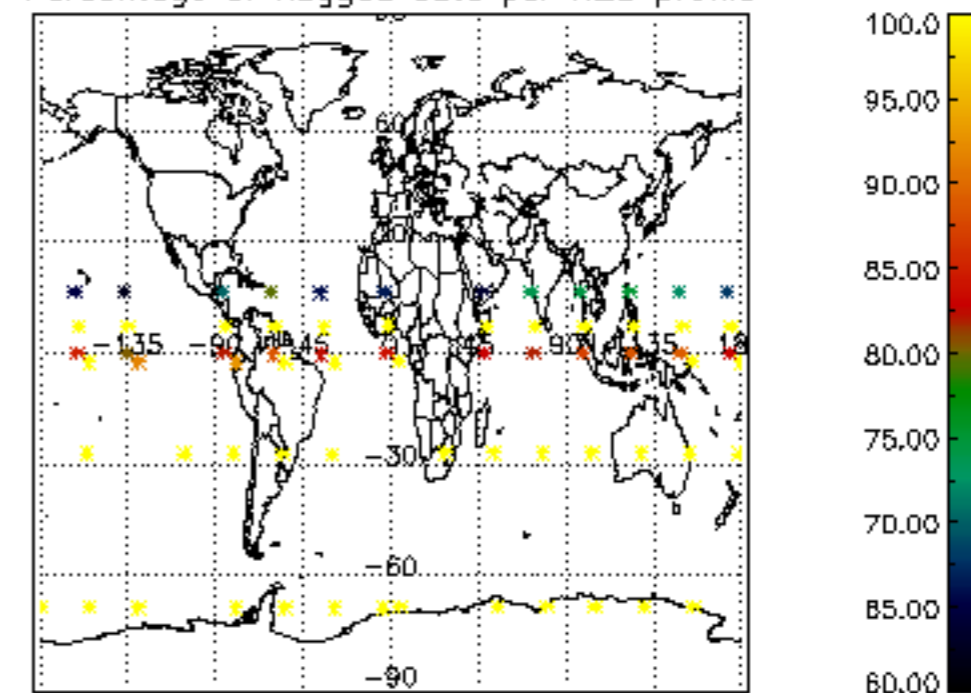




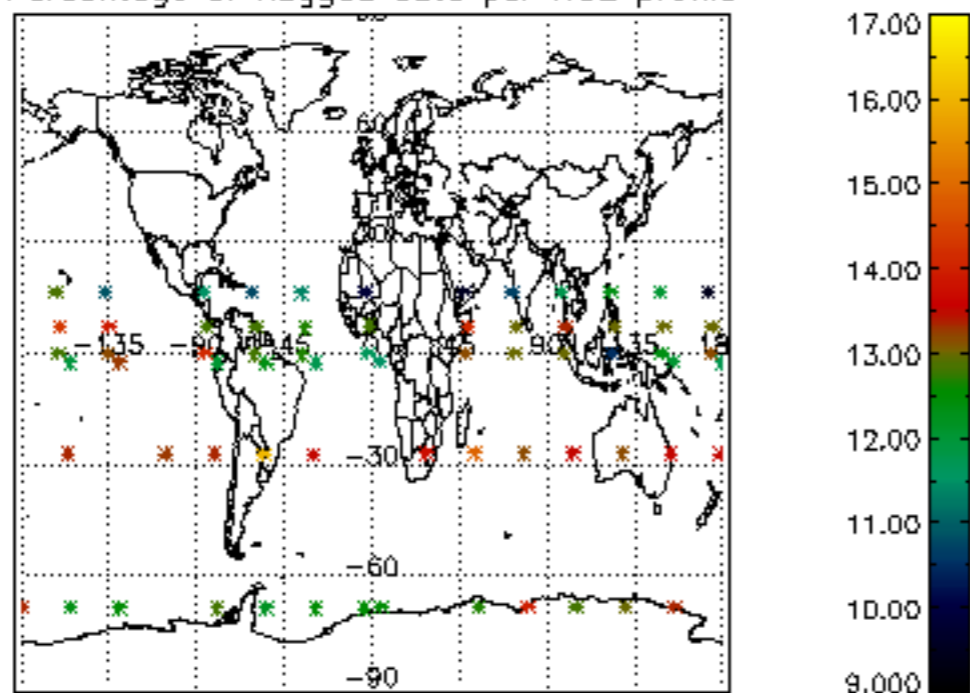
Percentage of flagged data per D3 profile



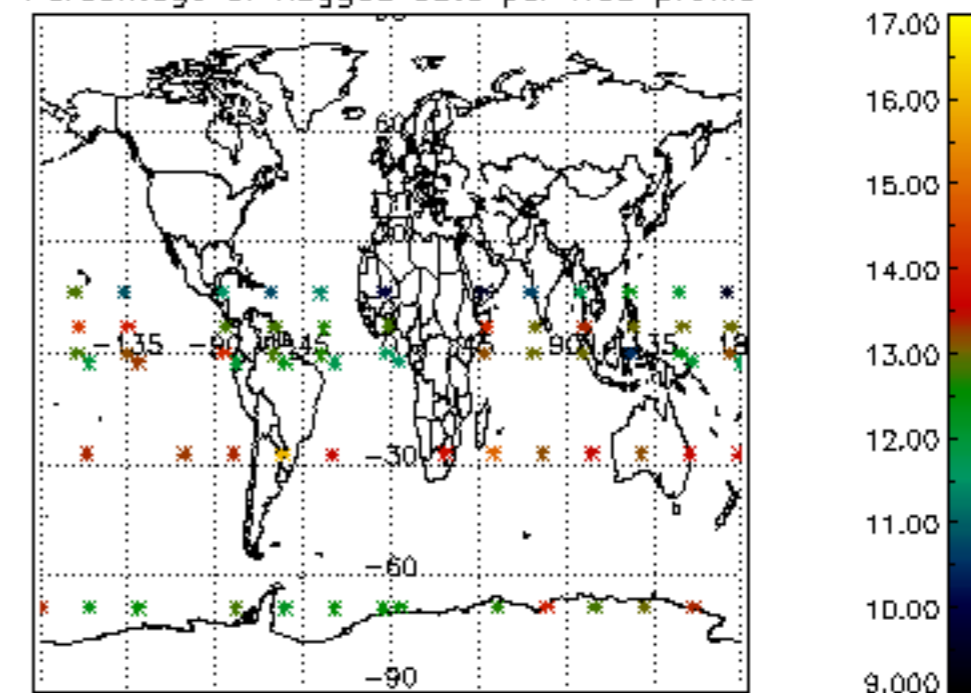
Percentage of flagged data per H2O profile

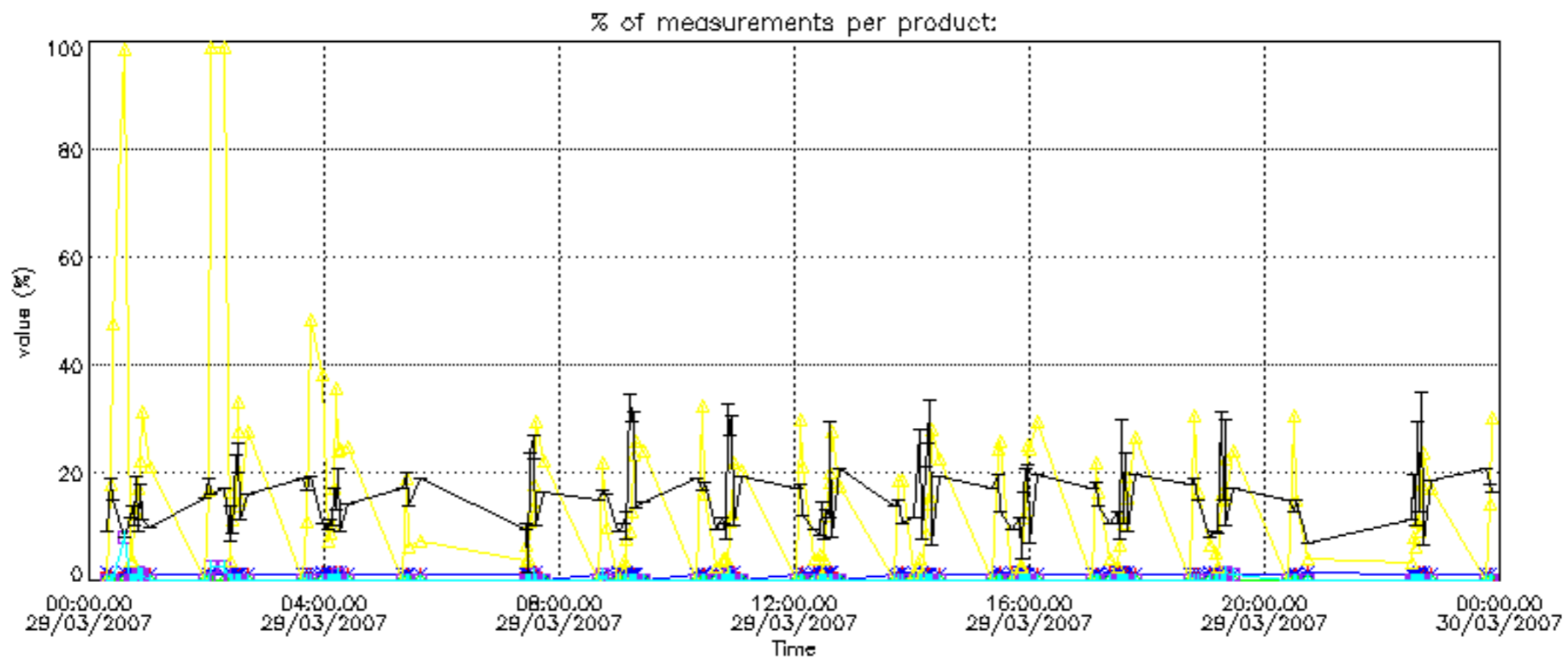


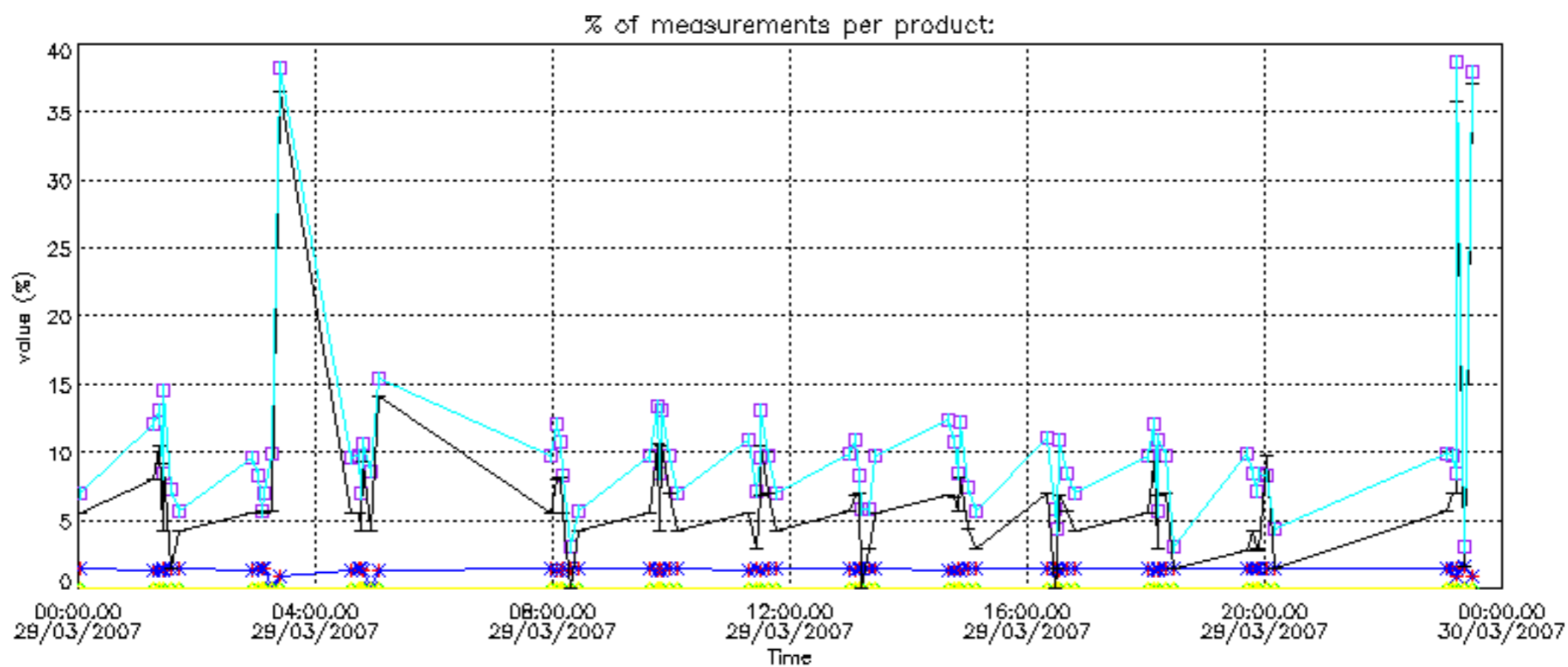
Percentage of flagged data per NO2 profile



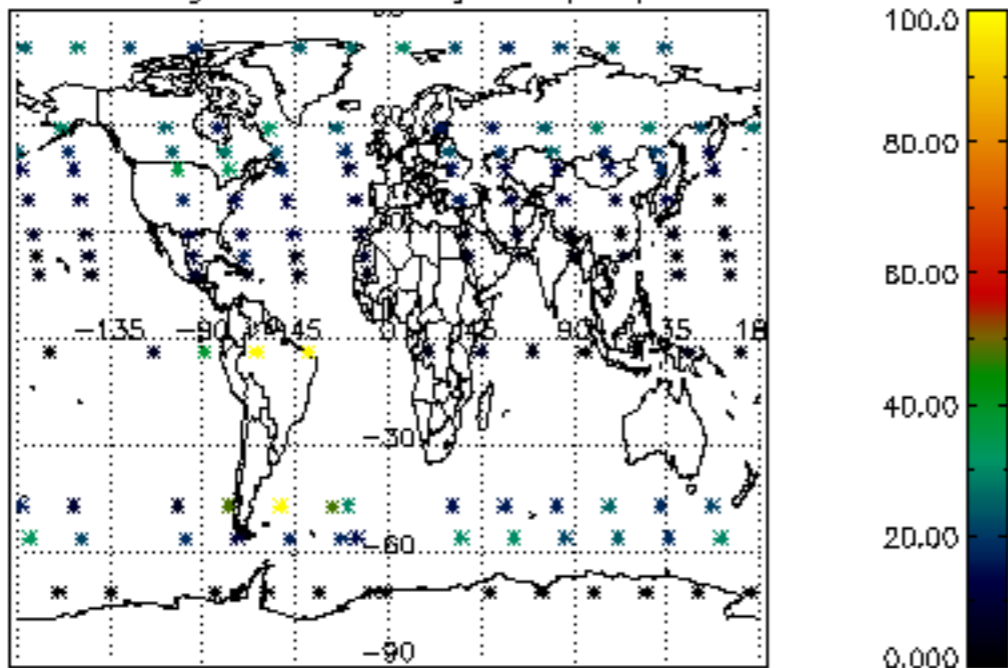
Percentage of flagged data per NO3 profile



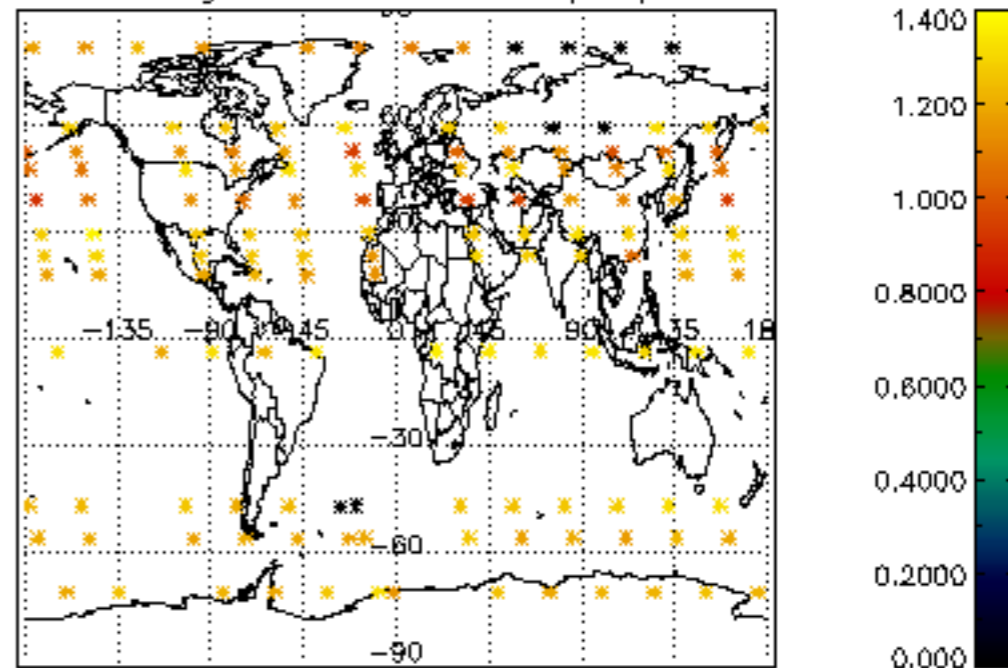




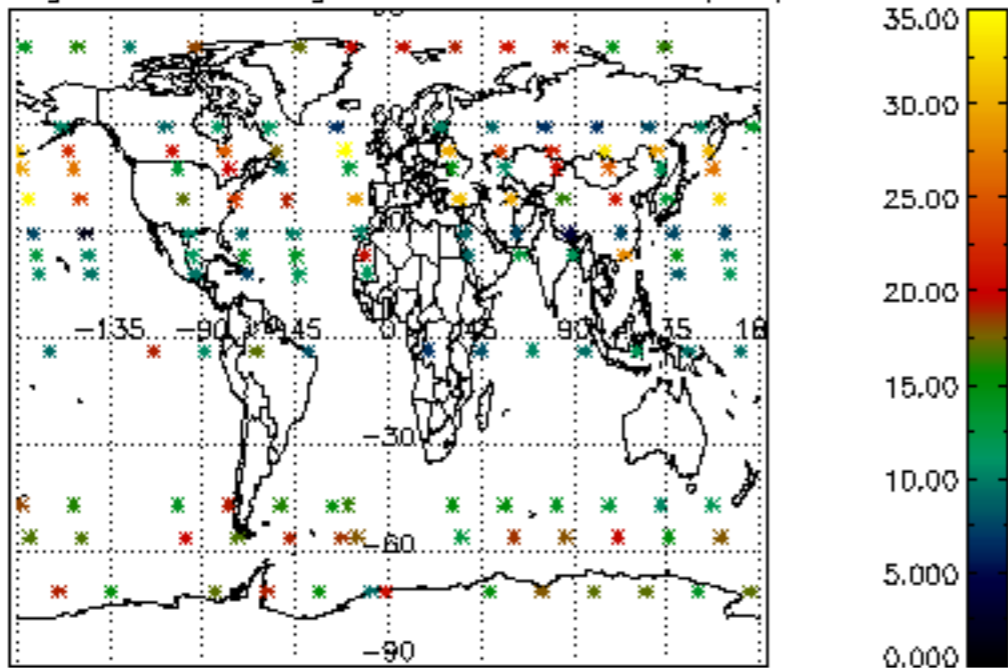
Percentage of cosmic ray hits per profile



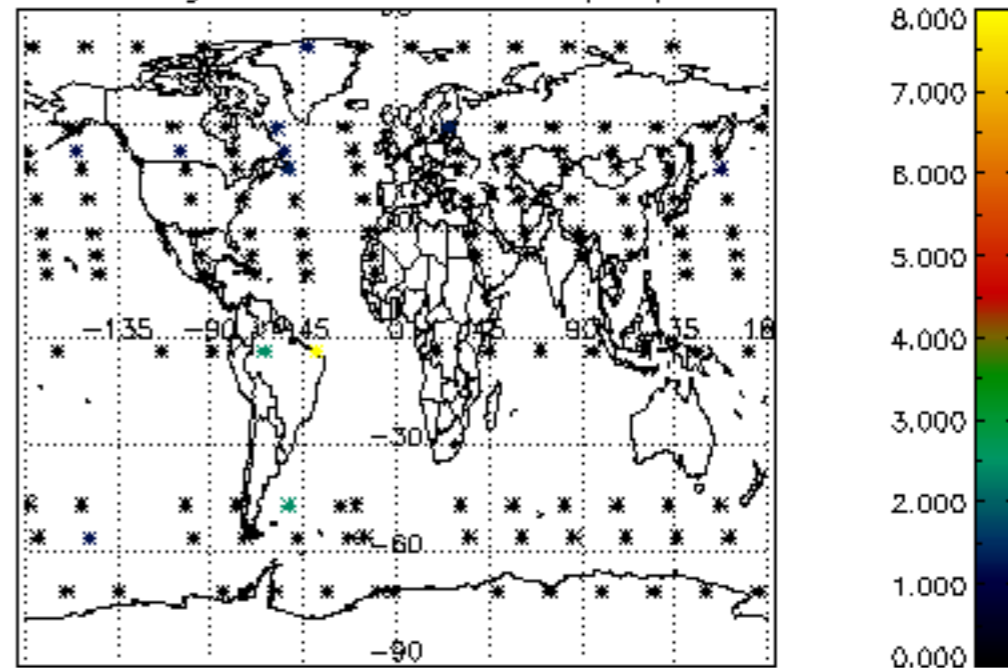
Percentage of datation errors per profile



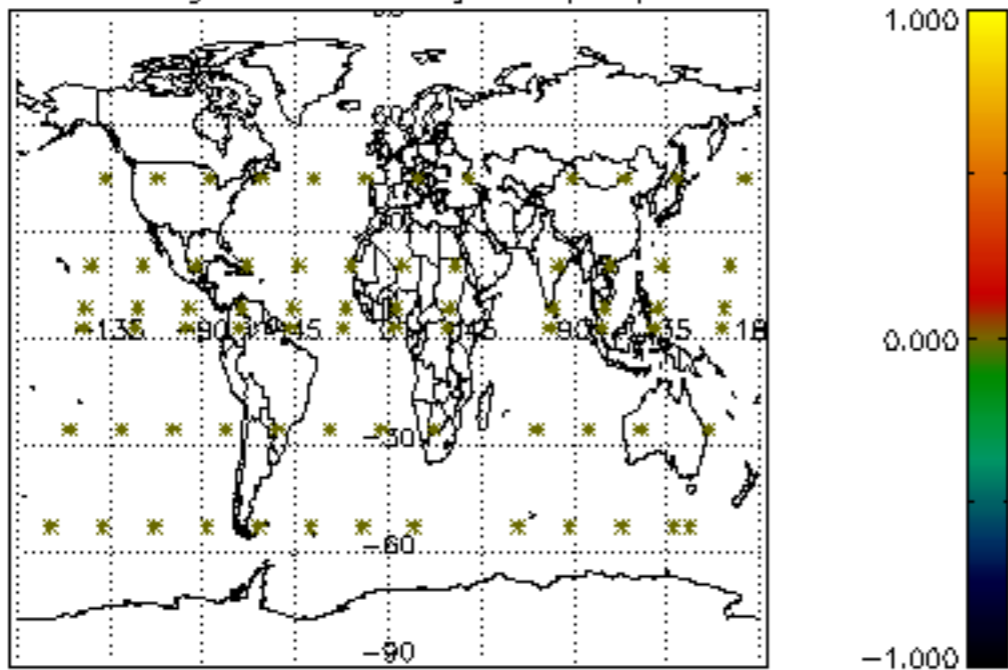
Percentage of star falling outside central band per profile



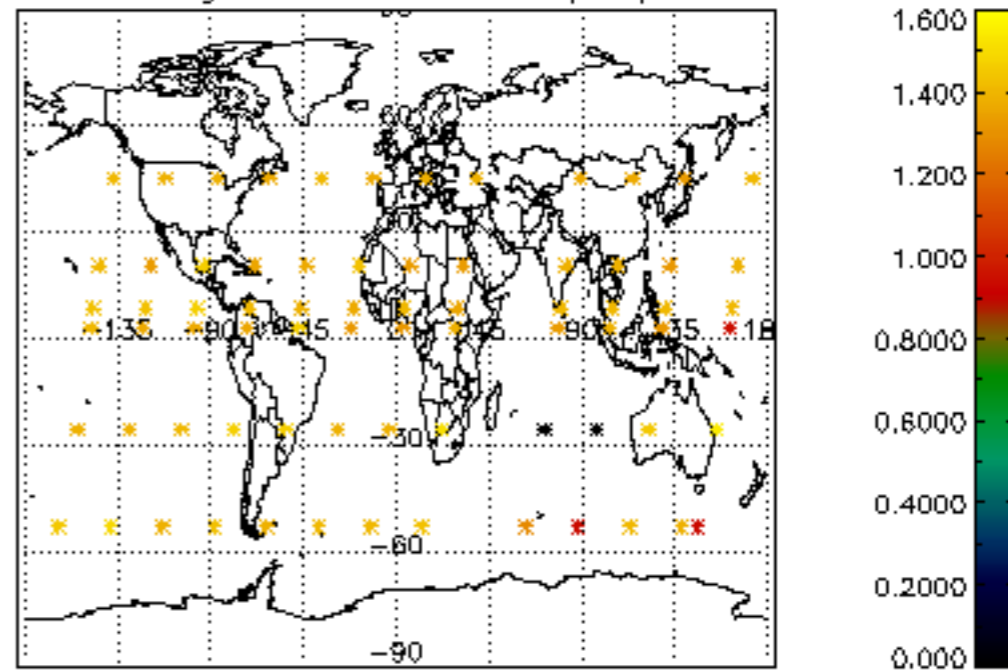
Percentage of saturation errors per profile



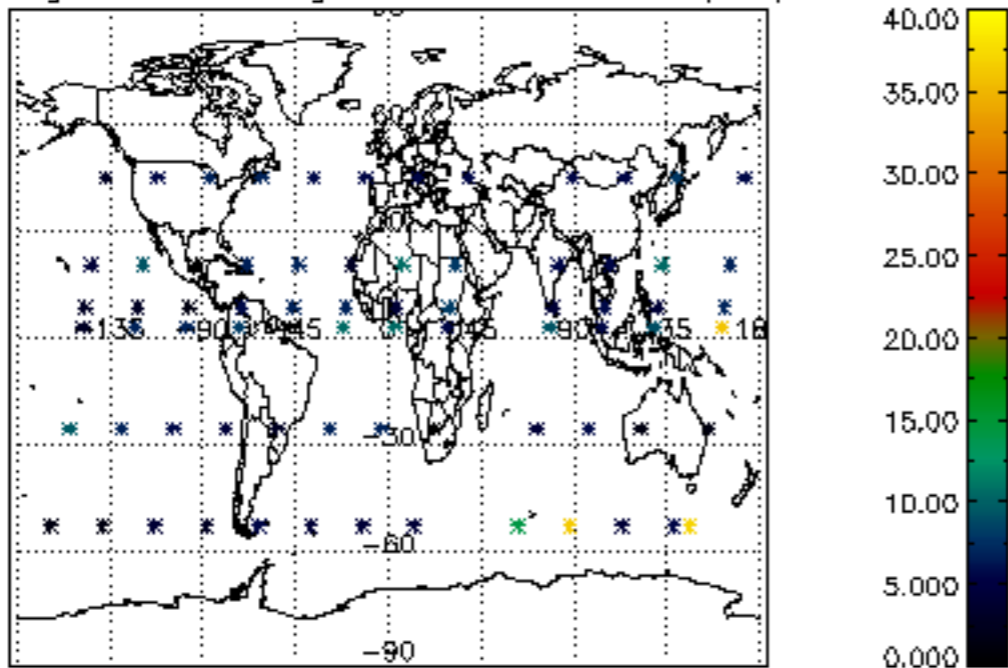
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

