

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	22APR2013 18:45:02
Data source version	GOMOS/6.01
Start time of products	22-04-2007 (22APR2007 00:00:00)
Stop time of products	23-04-2007 (23APR2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	337
Nb of prods with errors	0

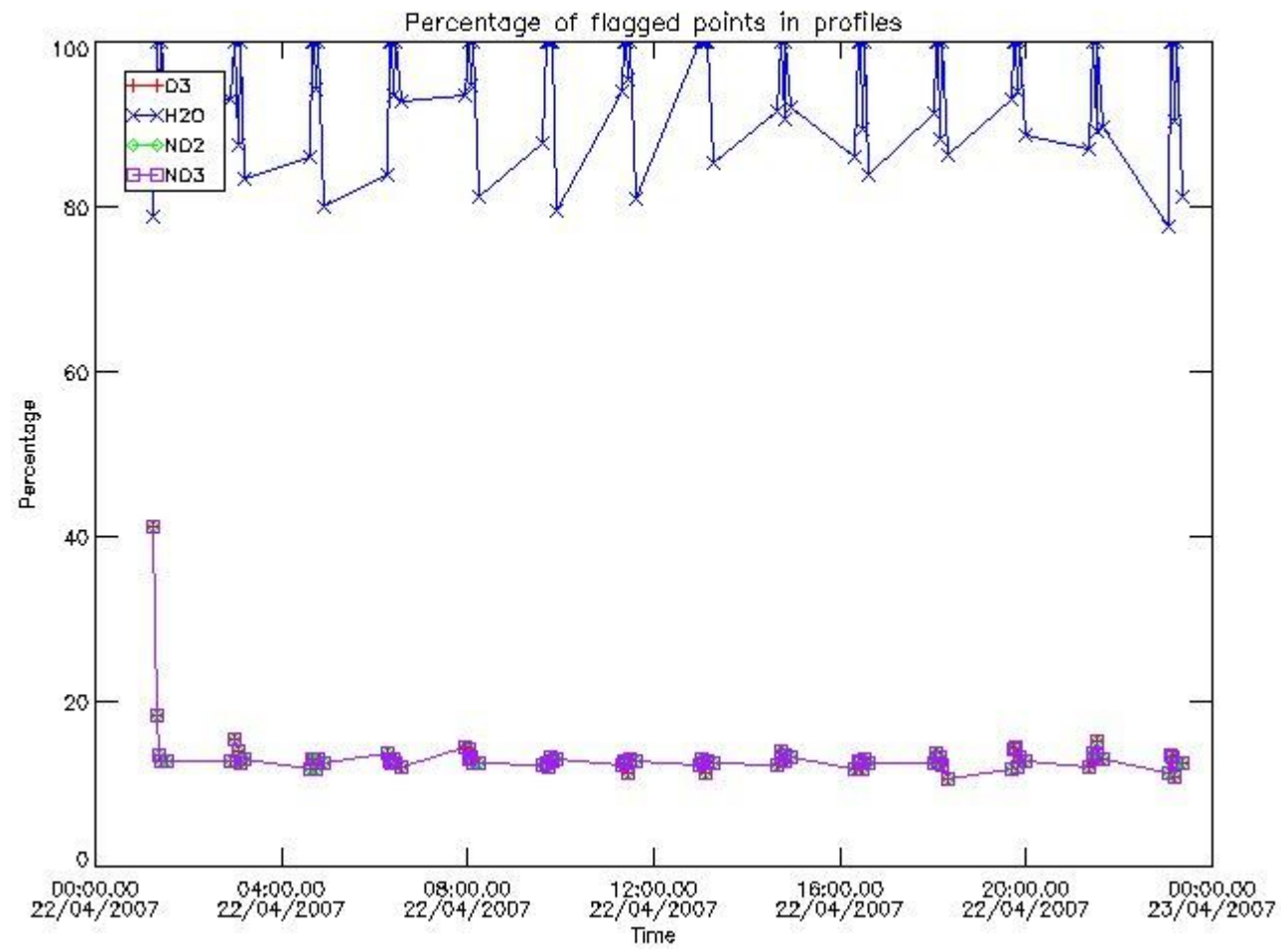
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20070422_000105_000000412057_00274_26881_1933.N1	22-APR-2007 00:01:05	Straylight	41.000	81	Eta Cen	2.3560	28000.	82	26881	No
2	GOM_NL__2PRFIN20070422_000320_000000452057_00274_26881_1934.N1	22-APR-2007 00:03:20	Straylight	45.000	54	5The Cen	2.0550	4500.0	90	26881	No
3	GOM_NL__2PRFIN20070422_000815_000000412057_00274_26881_1935.N1	22-APR-2007 00:08:15	Bright	41.000	106	9Bet Crv	2.6480	5600.0	82	26881	No
4	GOM_NL__2PRFIN20070422_001422_000000362057_00274_26881_1936.N1	22-APR-2007 00:14:22	Bright	36.000	121	29Gam Vir	2.7400	7200.0	72	26881	No
5	GOM_NL__2PRFIN20070422_001756_000000372057_00274_26881_1937.N1	22-APR-2007 00:17:56	Bright	37.000	138	47Eps Vir	2.8280	4700.0	74	26881	No
6	GOM_NL__2PRFIN20070422_002553_000000372057_00274_26881_1938.N1	22-APR-2007 00:25:53	Bright	36.500	152	12Alp2CVn	2.8900	11000.	73	26881	No
7	GOM_NL__2PRFIN20070422_002750_000000342057_00274_26881_1939.N1	22-APR-2007 00:27:50	Bright	34.000	174	52Psi UMa	3.0040	4400.0	68	26881	No
8	GOM_NL__2PRFIN20070422_003002_000000402057_00274_26881_1940.N1	22-APR-2007 00:30:02	Bright	39.500	87	64Gam UMa	2.4330	11000.	79	26881	No
9	GOM_NL__2PRFIN20070422_003232_000000522057_00274_26881_1941.N1	22-APR-2007 00:32:32	Bright	52.000	36	50Alp UMa	1.8000	6300.0	104	26881	No
10	GOM_NL__2PRFIN20070422_004025_000000322057_00274_26881_1942.N1	22-APR-2007 00:40:25	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	26881	No
11	GOM_NL__2PRFIN20070422_004807_000000332057_00274_26881_1943.N1	22-APR-2007 00:48:07	Bright	33.000	76	27Gam Cas	2.3000	30000.	66	26881	No
12	GOM_NL__2PRFIN20070422_004925_000000342057_00274_26881_1944.N1	22-APR-2007 00:49:25	Bright	34.000	68	18Alp Cas	2.2250	4500.0	68	26881	No
13	GOM_NL__2PRFIN20070422_005749_000000422057_00274_26881_1945.N1	22-APR-2007 00:57:49	Bright	41.500	164	44Eta Peg	2.9480	5400.0	83	26881	No
14	GOM_NL__2PRFIN20070422_010158_000000402057_00274_26881_1946.N1	22-APR-2007 01:01:58	Twi_and_stray	39.500	90	54Alp Peg	2.4870	11000.	79	26881	No
15	GOM_NL__2PRFIN20070422_011429_000000432057_00274_26881_1947.N1	22-APR-2007 01:14:29	Dark	43.000	18	24Alp PsA	1.1660	9700.0	86	26881	No
16	GOM_NL__2PRFIN20070422_012004_000000392057_00274_26881_1948.N1	22-APR-2007 01:20:04	Dark	39.000	31	Alp Gru	1.7340	15200.	78	26881	No
17	GOM_NL__2PRFIN20070422_012305_000000382057_00274_26881_1949.N1	22-APR-2007 01:23:05	Dark	38.000	148	Alp Tuc	2.8780	4100.0	76	26881	No
18	GOM_NL__2PRFIN20070422_012516_000000402057_00275_26882_1944.N1	22-APR-2007 01:25:16	Dark	40.000	45	Alp Pav	1.9400	26000.	80	26882	No
19	GOM_NL__2PRFIN20070422_013224_000000402057_00275_26882_1945.N1	22-APR-2007 01:32:24	Dark	40.000	43	Alp TrA	1.9100	4250.0	80	26882	No
20	GOM_NL__2PRFIN20070422_013434_000000392057_00275_26882_1946.N1	22-APR-2007 01:34:34	Straylight	39.000	134	Bet TrA	2.8100	6600.0	78	26882	No
21	GOM_NL__2PRFIN20070422_013650_000000432057_00275_26882_1947.N1	22-APR-2007 01:36:50	Straylight	43.000	4	Alp1Cen	-0.010000	5800.0	86	26882	No
22	GOM_NL__2PRFIN20070422_014007_000000392057_00275_26882_1948.N1	22-APR-2007 01:40:07	Straylight	39.000	78	Alp Lup	2.3040	28000.	78	26882	No
23	GOM_NL__2PRFIN20070422_014142_000000442057_00275_26882_1949.N1	22-APR-2007 01:41:42	Straylight	44.000	81	Eta Cen	2.3560	28000.	88	26882	No
24	GOM_NL__2PRFIN20070422_014356_000000492057_00275_26882_1950.N1	22-APR-2007 01:43:56	Straylight	48.500	54	5The Cen	2.0550	4500.0	97	26882	No
25	GOM_NL__2PRFIN20070422_014851_000000412057_00275_26882_1951.N1	22-APR-2007 01:48:51	Bright	40.500	106	9Bet Crv	2.6480	5600.0	81	26882	No
26	GOM_NL__2PRFIN20070422_015156_000000412057_00275_26882_1952.N1	22-APR-2007 01:51:56	Bright	41.000	15	67Alp Vir	0.97600	28000.	82	26882	No
27	GOM_NL__2PRFIN20070422_015458_000000352057_00275_26882_1953.N1	22-APR-2007 01:54:58	Bright	35.000	121	29Gam Vir	2.7400	7200.0	70	26882	No
28	GOM_NL__2PRFIN20070422_015832_000000372057_00275_26882_1954.N1	22-APR-2007 01:58:32	Bright	37.000	138	47Eps Vir	2.8280	4700.0	74	26882	No
29	GOM_NL__2PRFIN20070422_020629_000000362057_00275_26882_1955.N1	22-APR-2007 02:06:29	Bright	36.000	152	12Alp2CVn	2.8900	11000.	72	26882	No
30	GOM_NL__2PRFIN20070422_020827_000000362057_00275_26882_1956.N1	22-APR-2007 02:08:27	Bright	35.500	174	52Psi UMa	3.0040	4400.0	71	26882	No
31	GOM_NL__2PRFIN20070422_021037_000000342057_00275_26882_1957.N1	22-APR-2007 02:10:37	Bright	33.500	87	64Gam UMa	2.4330	11000.	67	26882	No
32	GOM_NL__2PRFIN20070422_021308_000000332057_00275_26882_1958.N1	22-APR-2007 02:13:08	Bright	33.000	36	50Alp UMa	1.8000	6300.0	66	26882	No
33	GOM_NL__2PRFIN20070422_022101_000000342057_00275_26882_1959.N1	22-APR-2007 02:21:01	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	26882	No
34	GOM_NL__2PRFIN20070422_022843_000000352057_00275_26882_1960.N1	22-APR-2007 02:28:43	Bright	34.500	76	27Gam Cas	2.3000	30000.	69	26882	No
35	GOM_NL__2PRFIN20070422_023001_000000352057_00275_26882_1961.N1	22-APR-2007 02:30:01	Bright	34.500	68	18Alp Cas	2.2250	4500.0	69	26882	No
36	GOM_NL__2PRFIN20070422_023825_000000562057_00275_26882_1962.N1	22-APR-2007 02:38:25	Bright	56.000	164	44Eta Peg	2.9480	5400.0	112	26882	No
37	GOM_NL__2PRFIN20070422_024234_000000402057_00275_26882_1963.N1	22-APR-2007 02:42:34	Twi_and_stray	40.000	90	54Alp Peg	2.4870	11000.	80	26882	No
38	GOM_NL__2PRFIN20070422_025505_000000442057_00275_26882_1964.N1	22-APR-2007 02:55:05	Dark	43.500	18	24Alp PsA	1.1660	9700.0	87	26882	No
39	GOM_NL__2PRFIN20070422_025848_000000402057_00275_26882_1965.N1	22-APR-2007 02:58:48	Dark	39.500	172	Gam Gru	3.0030	13100.	79	26882	No
40	GOM_NL__2PRFIN20070422_030341_000000372057_00275_26882_1966.N1	22-APR-2007 03:03:41	Dark	36.500	148	Alp Tuc	2.8780	4100.0	73	26882	No
41	GOM_NL__2PRFIN20070422_030553_000000412057_00276_26883_1960.N1	22-APR-2007 03:05:53	Dark	40.500	45	Alp Pav	1.9400	26000.	81	26883	No
42	GOM_NL__2PRFIN20070422_031301_000000402057_00276_26883_1961.N1	22-APR-2007 03:13:01	Dark	39.500	43	Alp TrA	1.9100	4250.0	79	26883	No

3. Quality information per product

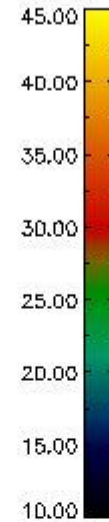
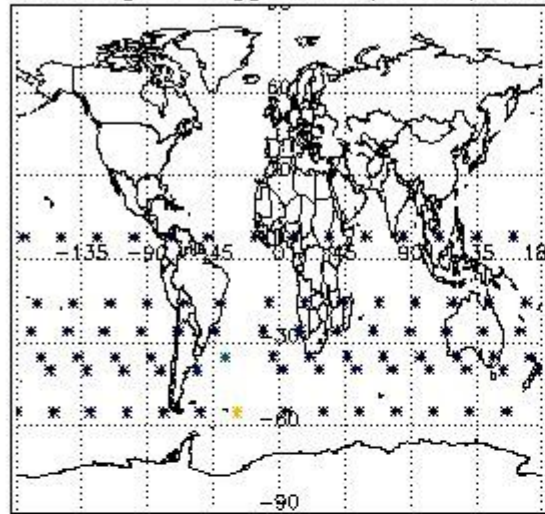
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

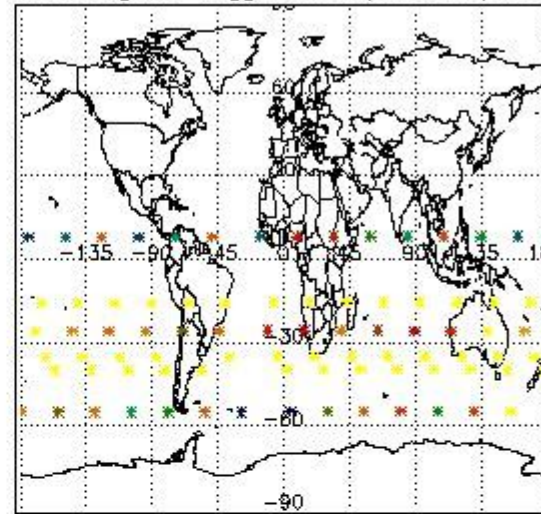


3.2 Plot quality information per product (world map)

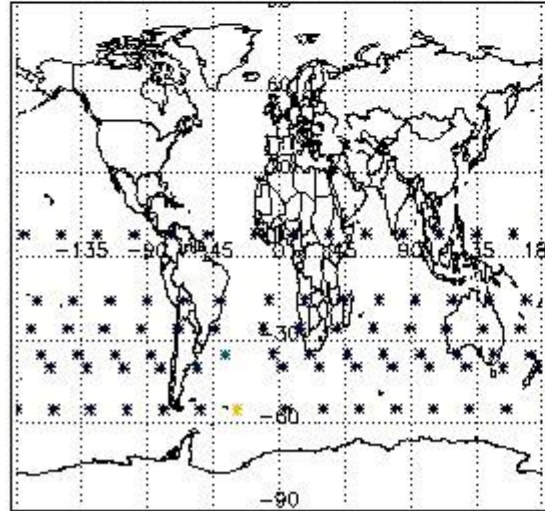
Percentage of flagged data per O3 profile



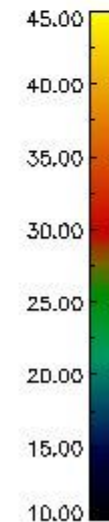
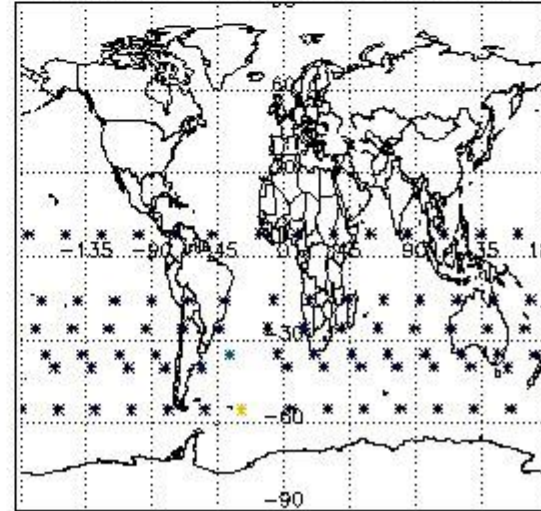
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

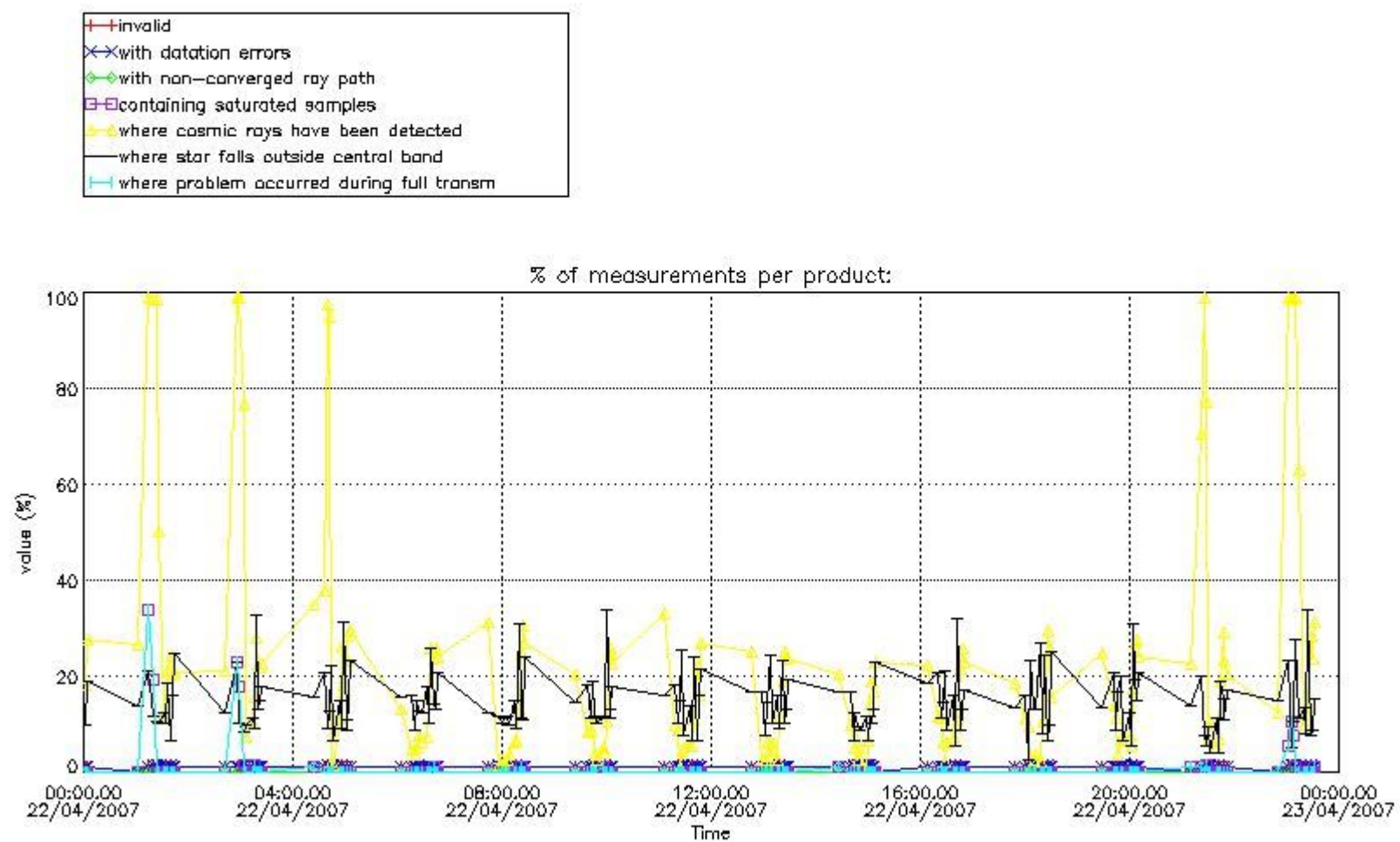


4. Level 1 quality information per product

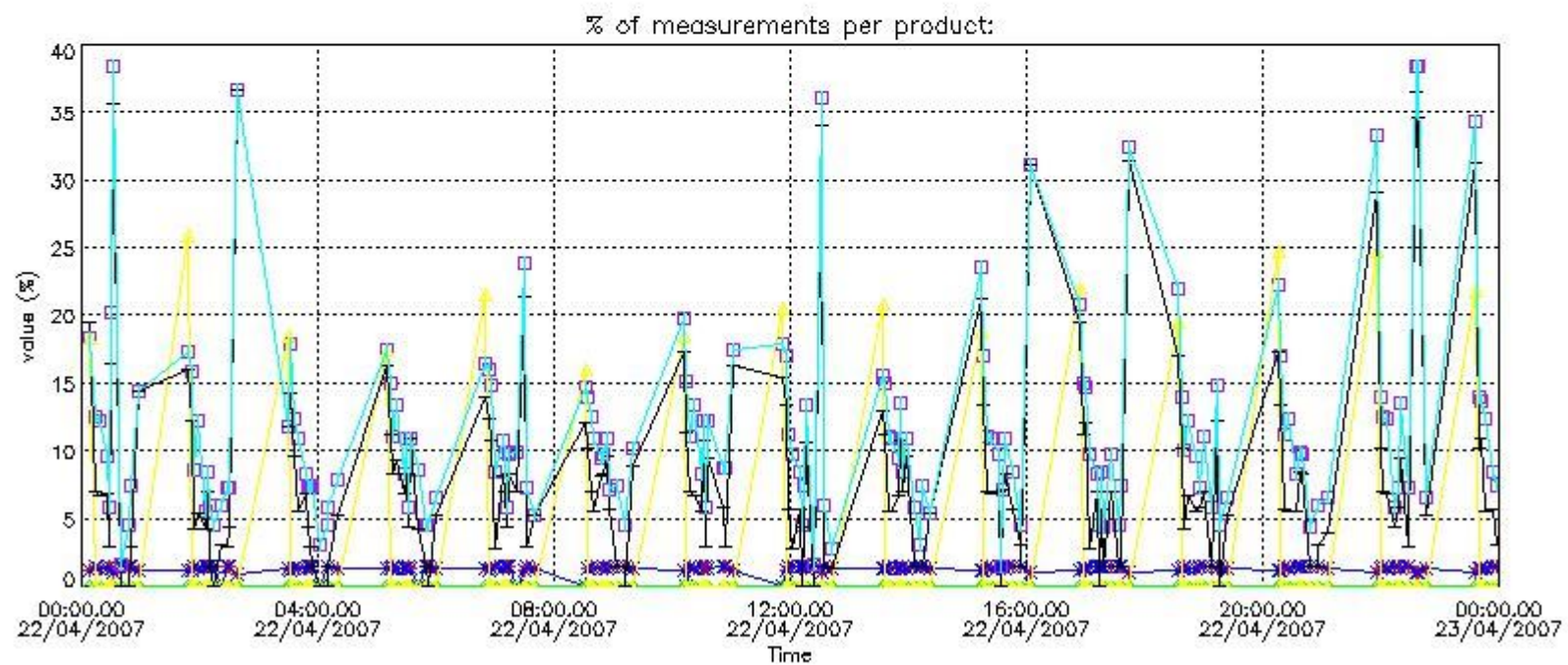
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



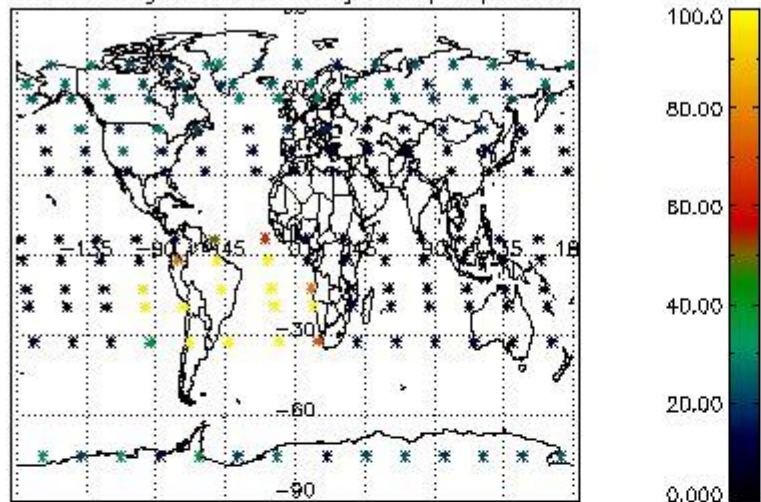
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



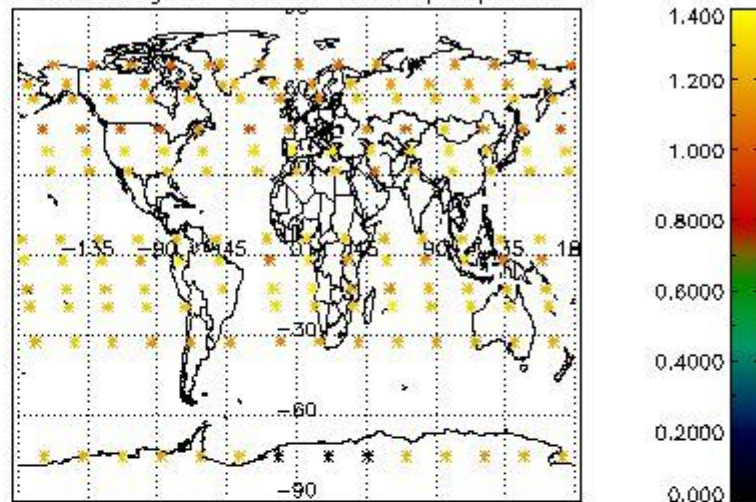
4.2 Plot quality information per product coming from level 1b processing (world map)

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

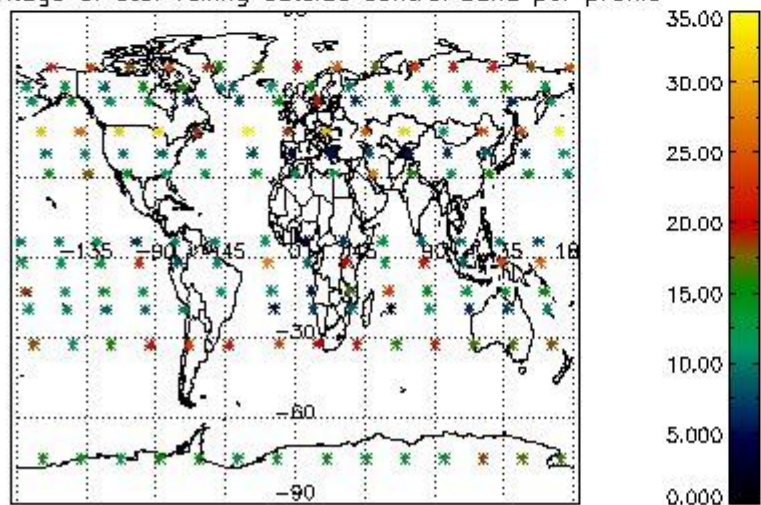
Percentage of cosmic ray hits per profile



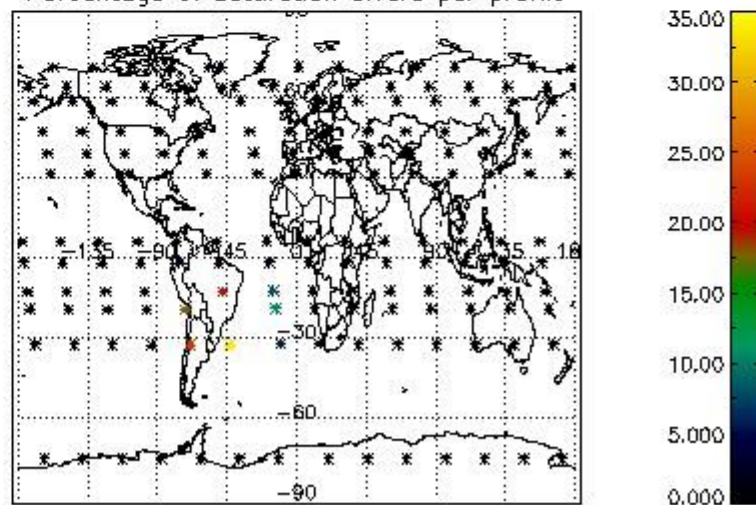
Percentage of datation errors per profile



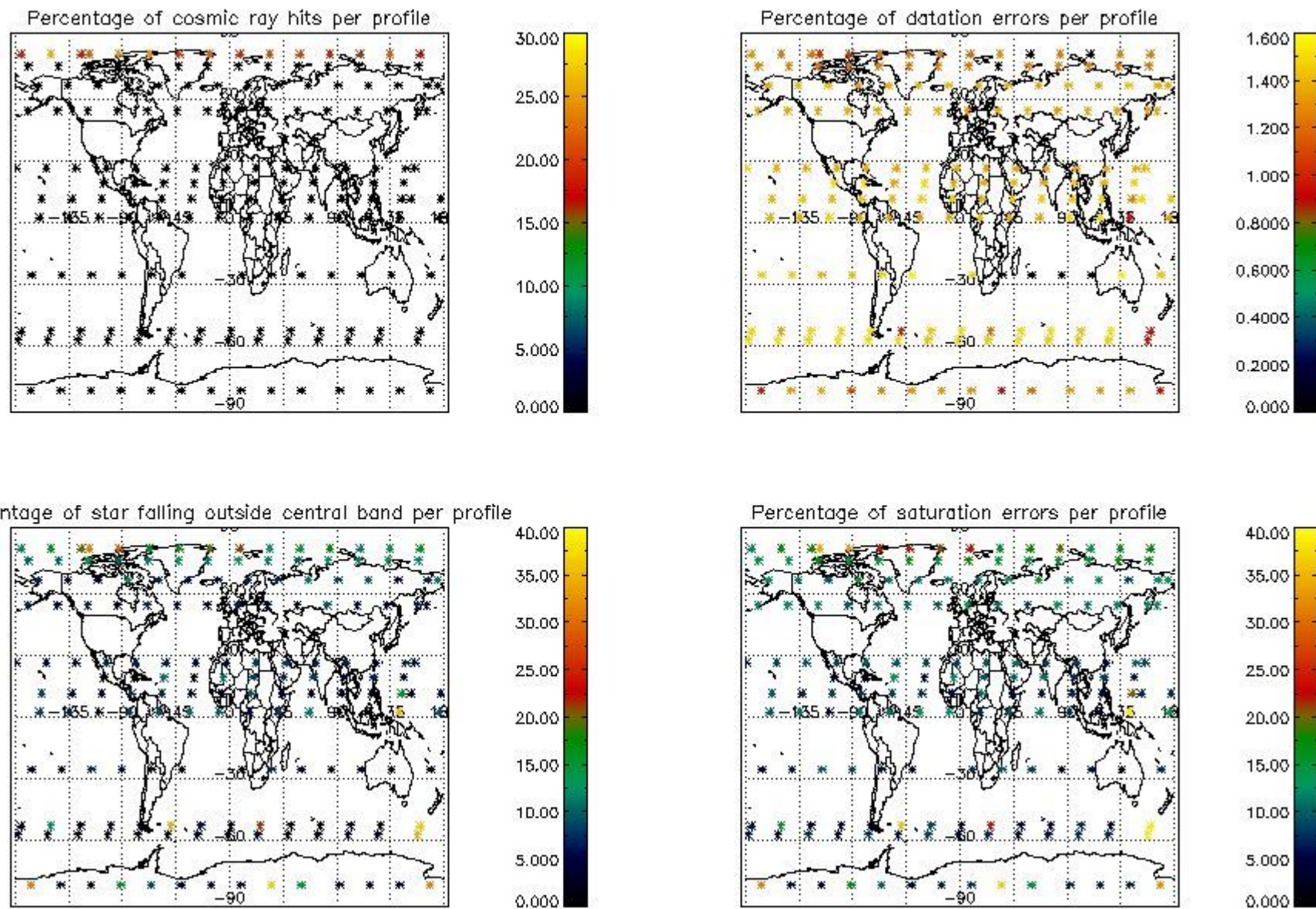
Percentage of star falling outside central band per profile



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

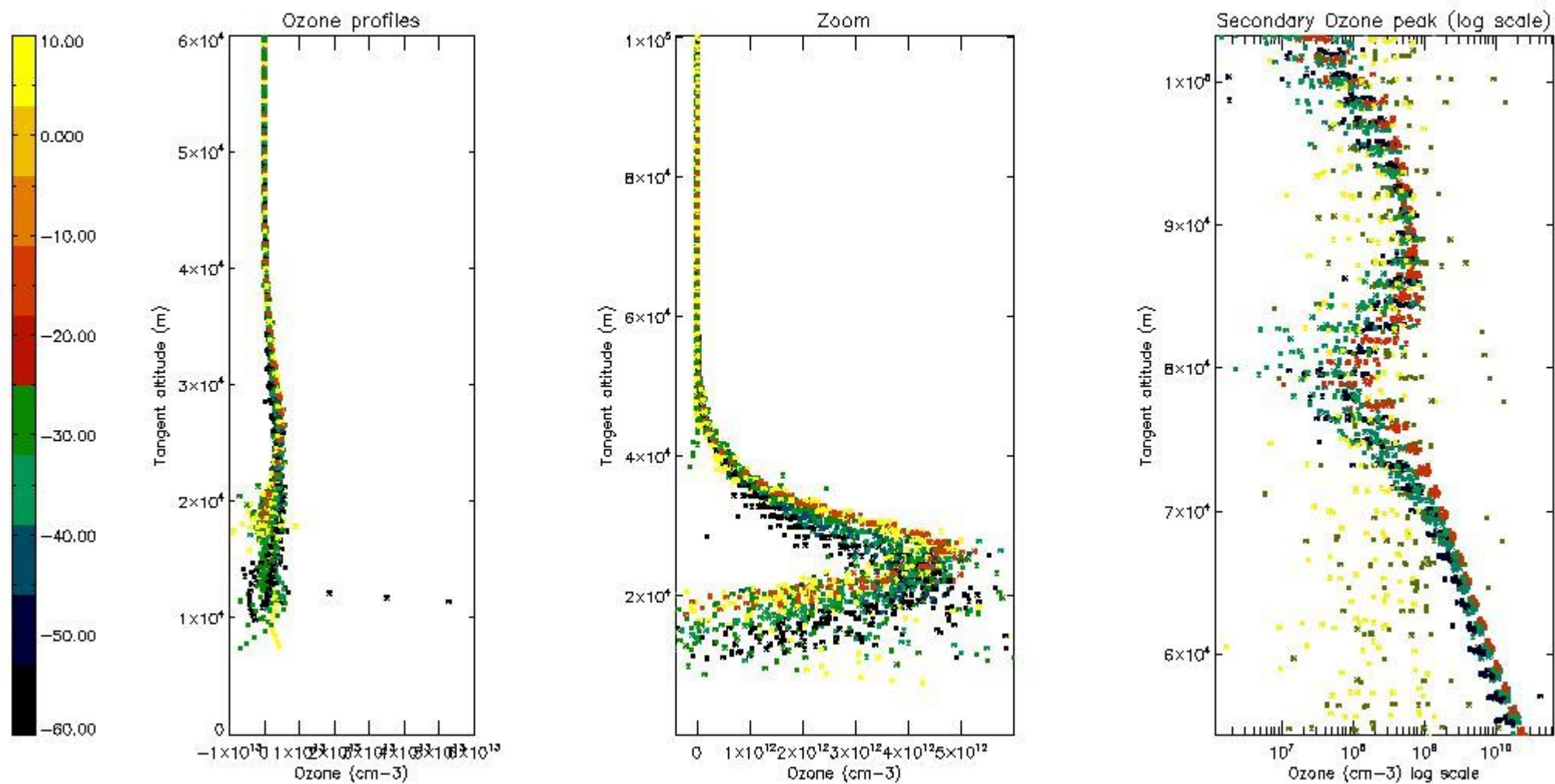
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	26
STD < 20	13

STD < 10	10
STD < 5	6

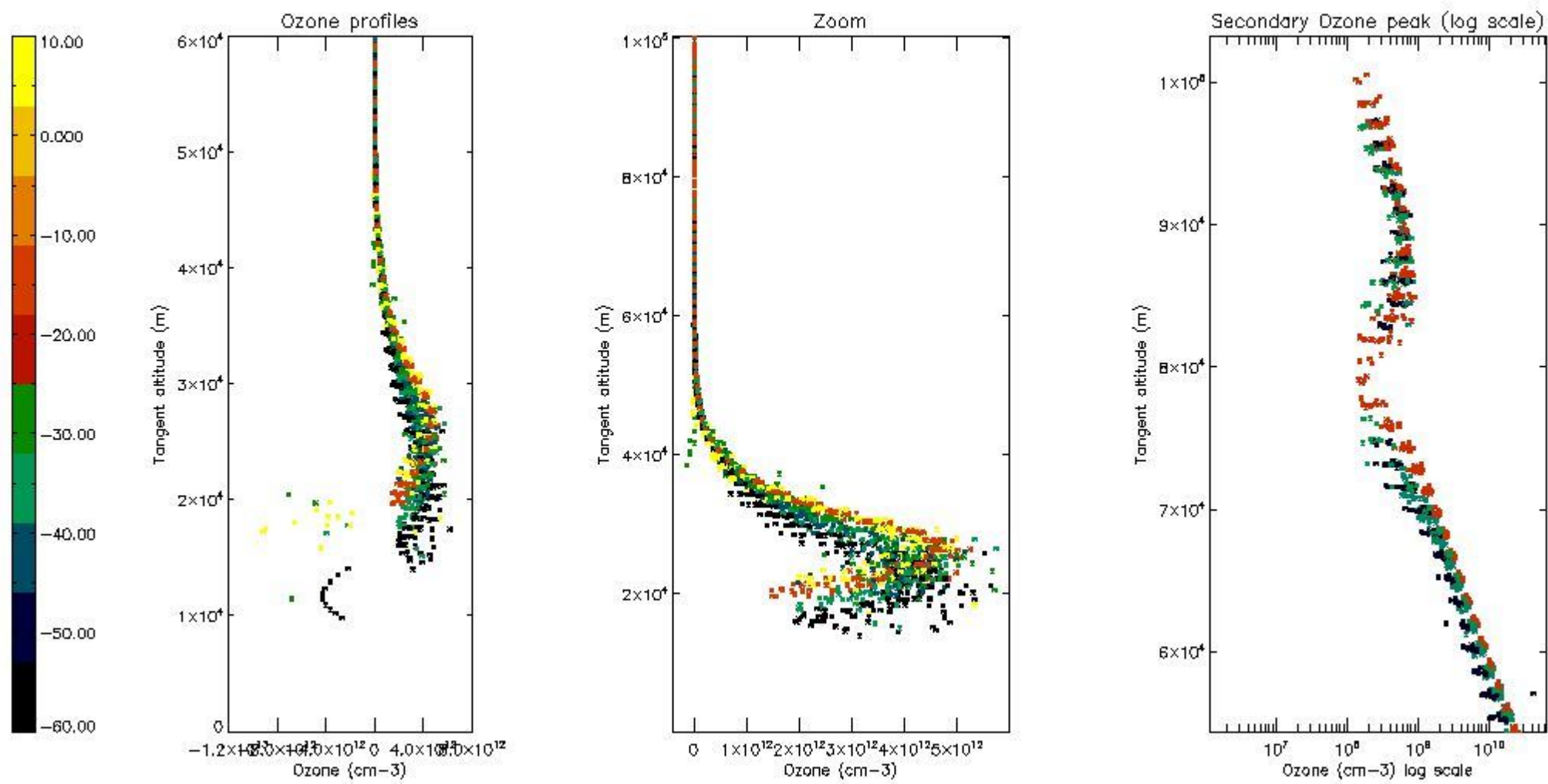
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



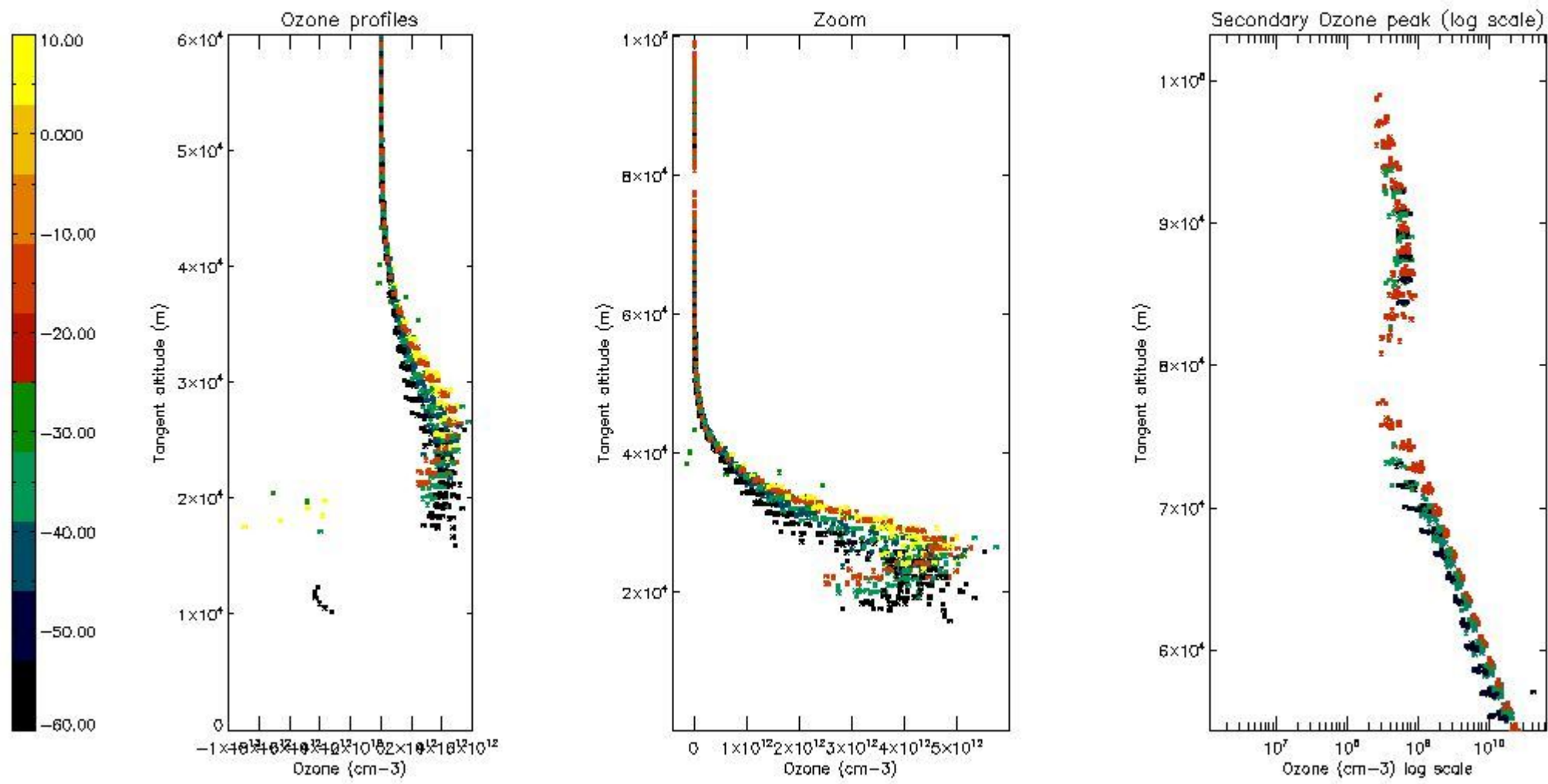
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



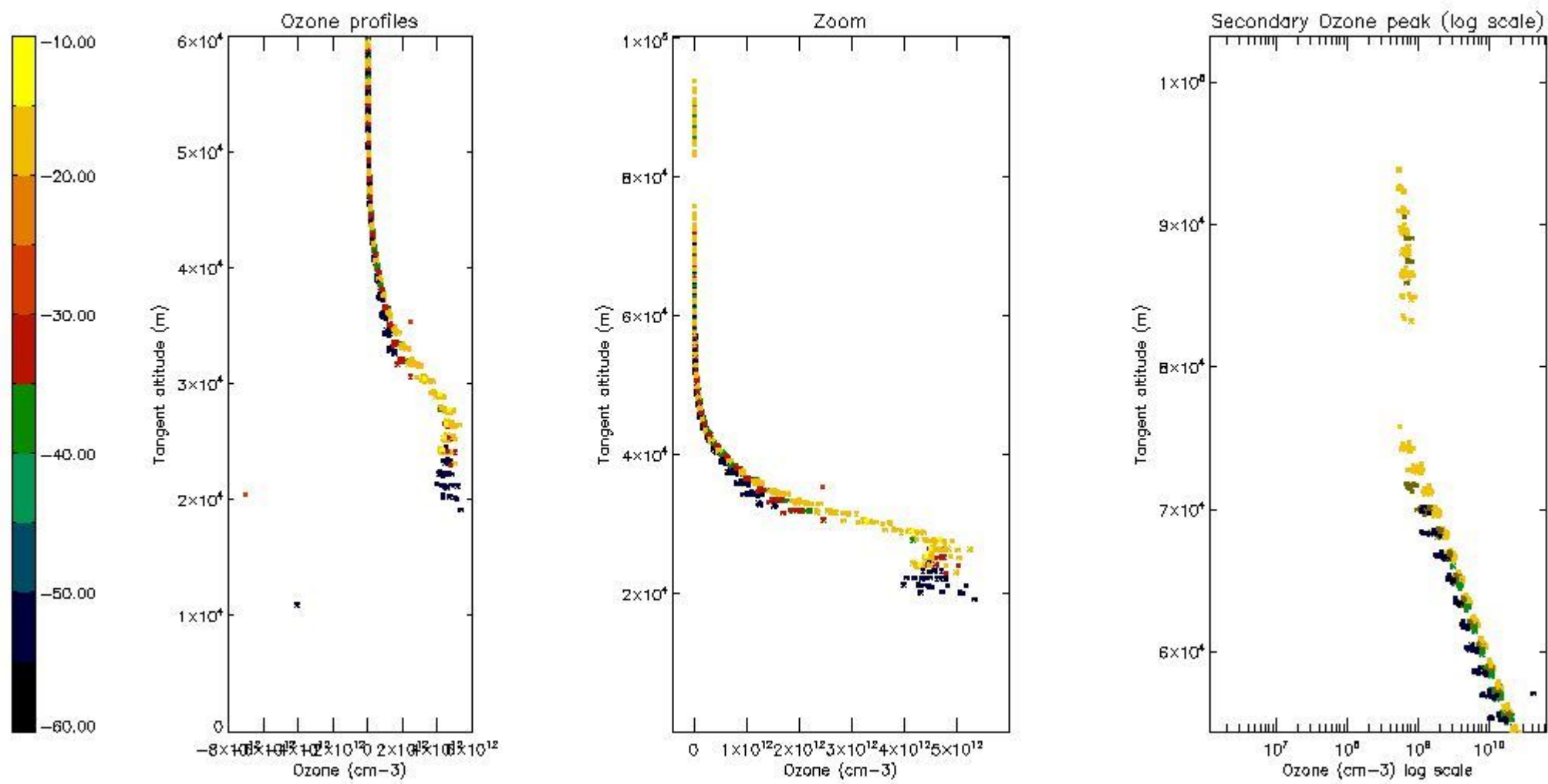
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



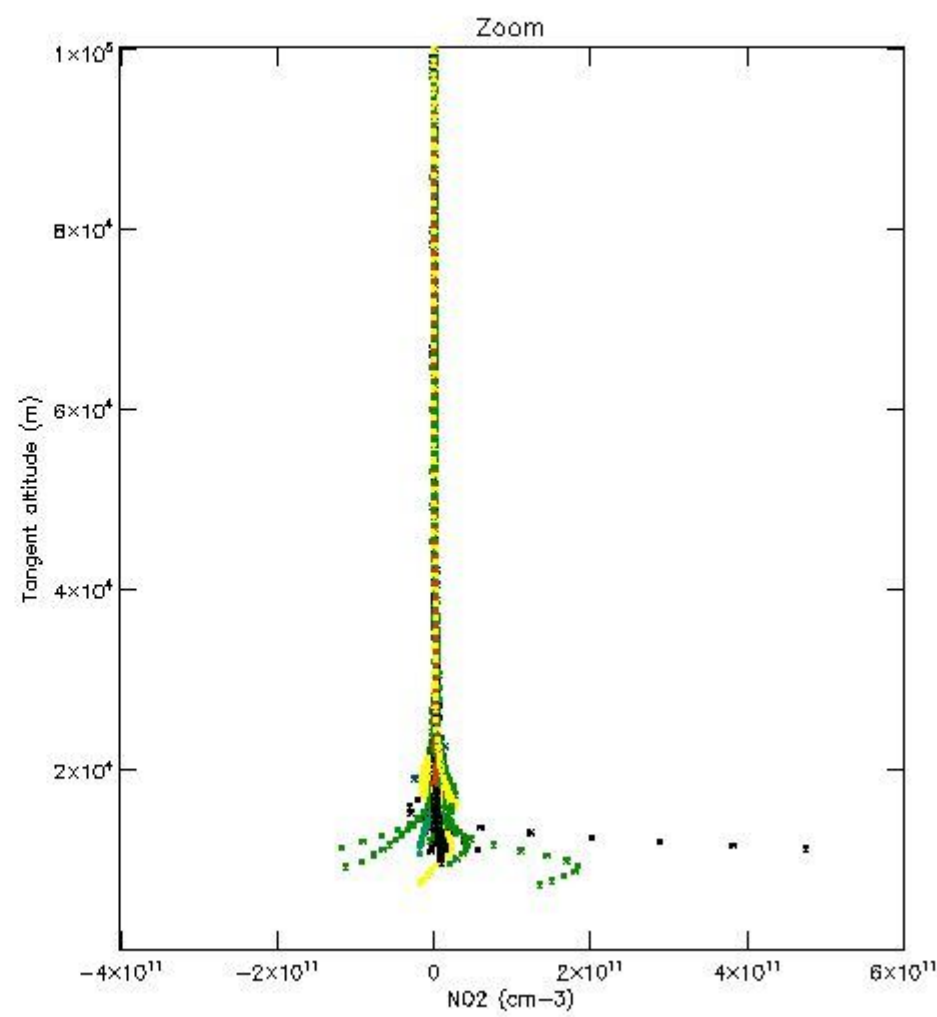
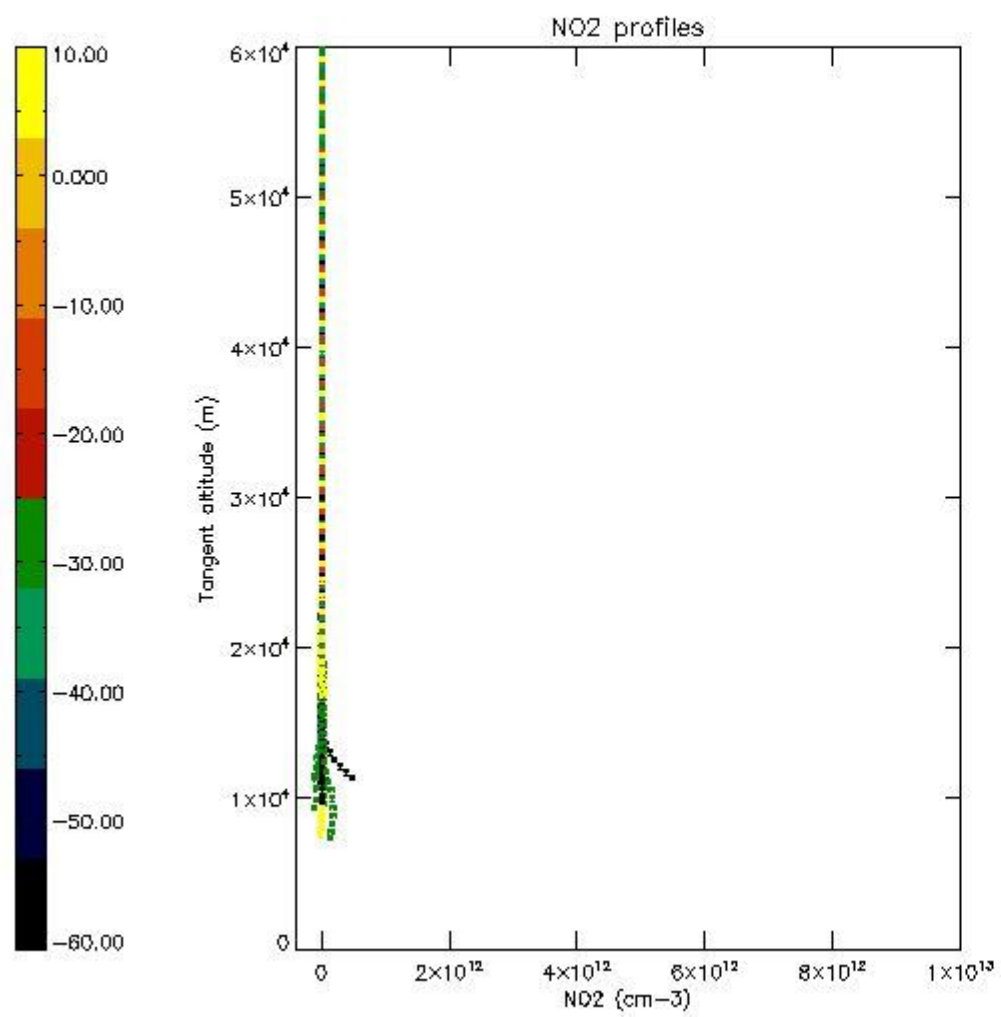
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



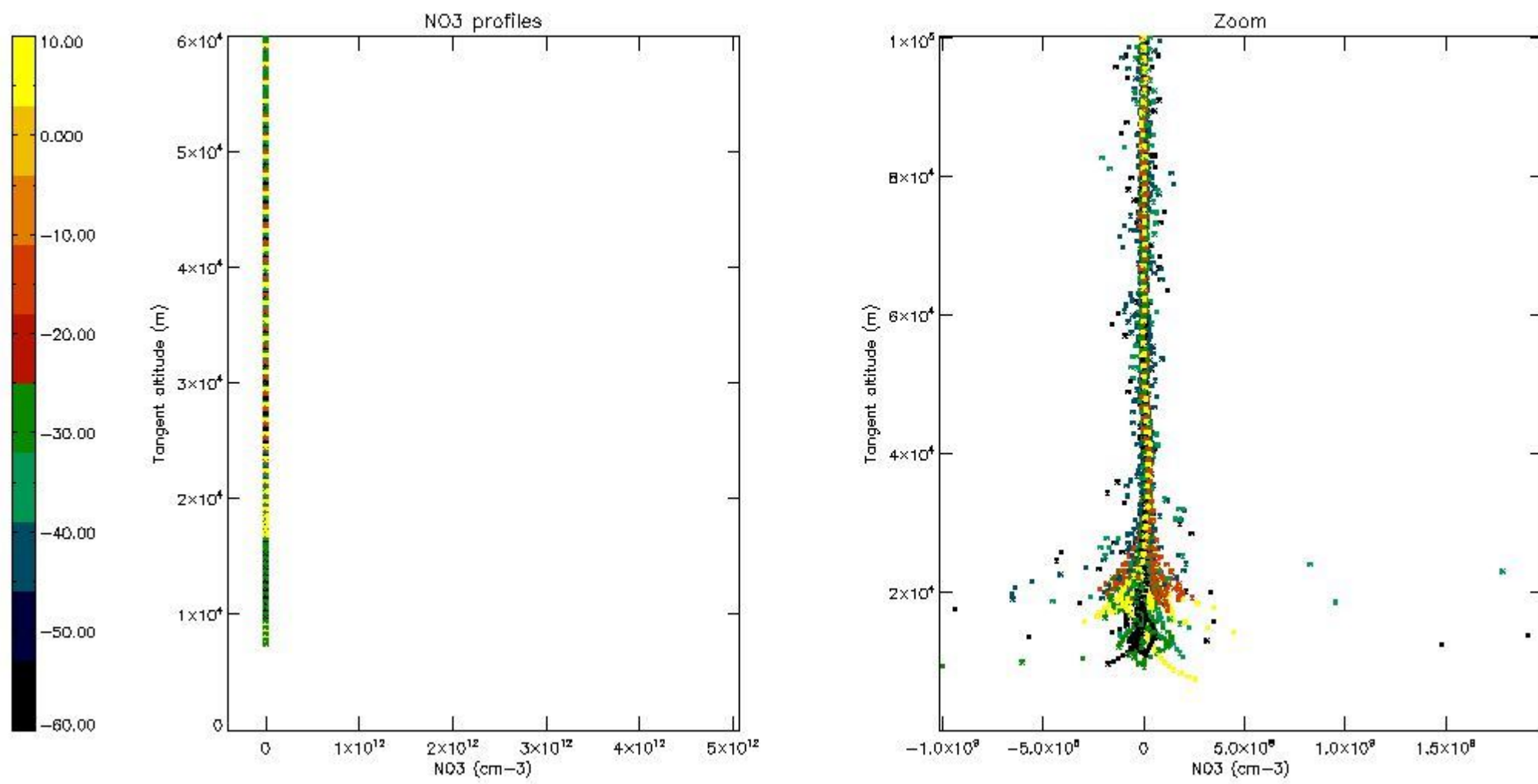
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



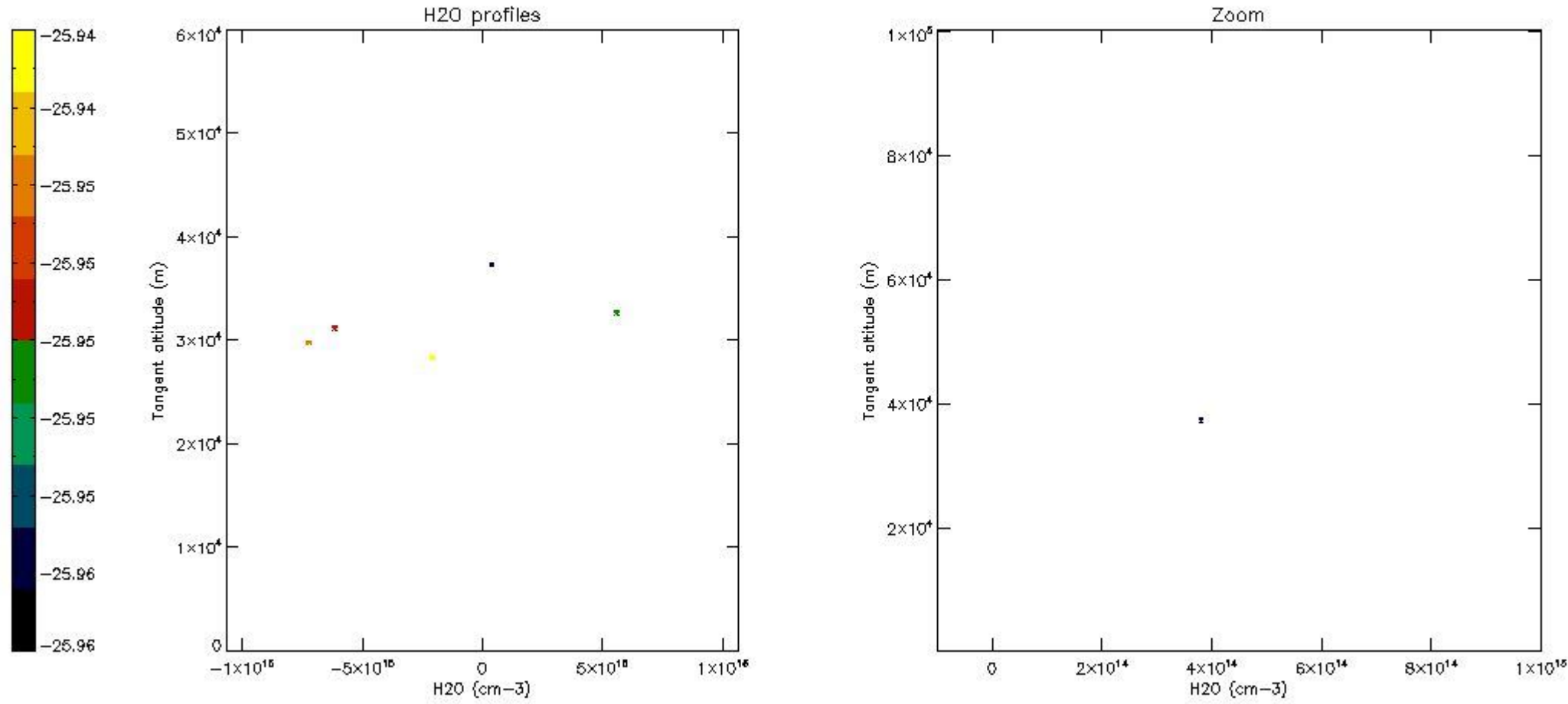
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	22-APR-2007 00:01:05
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	22-APR-2007 00:01:05
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	22-APR-2007 00:01:05

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[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 18:45:02
Data source version	GOMOS/6.01
Start time of products	22-04-2007 (22APR2007 00:00:00)
Stop time of products	23-04-2007 (23APR2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	337
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__2PRFIN20070422_000105_000000412057_00274_26881_1933.N1	22-APR-2007 00:01:05	Straylight	41.000	81	Eta Cen	2.3560	28000.	82	26881	No
2	GOM_NL__2PRFIN20070422_000320_000000452057_00274_26881_1934.N1	22-APR-2007 00:03:20	Straylight	45.000	54	5The Cen	2.0550	4500.0	90	26881	No
3	GOM_NL__2PRFIN20070422_000815_000000412057_00274_26881_1935.N1	22-APR-2007 00:08:15	Bright	41.000	106	9Bet Crv	2.6480	5600.0	82	26881	No
4	GOM_NL__2PRFIN20070422_001422_000000362057_00274_26881_1936.N1	22-APR-2007 00:14:22	Bright	36.000	121	29Gam Vir	2.7400	7200.0	72	26881	No
5	GOM_NL__2PRFIN20070422_001756_000000372057_00274_26881_1937.N1	22-APR-2007 00:17:56	Bright	37.000	138	47Eps Vir	2.8280	4700.0	74	26881	No
6	GOM_NL__2PRFIN20070422_002553_000000372057_00274_26881_1938.N1	22-APR-2007 00:25:53	Bright	36.500	152	12Alp2CVn	2.8900	11000.	73	26881	No
7	GOM_NL__2PRFIN20070422_002750_000000342057_00274_26881_1939.N1	22-APR-2007 00:27:50	Bright	34.000	174	52Psi UMa	3.0040	4400.0	68	26881	No
8	GOM_NL__2PRFIN20070422_003002_000000402057_00274_26881_1940.N1	22-APR-2007 00:30:02	Bright	39.500	87	64Gam UMa	2.4330	11000.	79	26881	No
9	GOM_NL__2PRFIN20070422_003232_000000522057_00274_26881_1941.N1	22-APR-2007 00:32:32	Bright	52.000	36	50Alp UMa	1.8000	6300.0	104	26881	No
10	GOM_NL__2PRFIN20070422_004025_000000322057_00274_26881_1942.N1	22-APR-2007 00:40:25	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	26881	No
11	GOM_NL__2PRFIN20070422_004807_000000332057_00274_26881_1943.N1	22-APR-2007 00:48:07	Bright	33.000	76	27Gam Cas	2.3000	30000.	66	26881	No
12	GOM_NL__2PRFIN20070422_004925_000000342057_00274_26881_1944.N1	22-APR-2007 00:49:25	Bright	34.000	68	18Alp Cas	2.2250	4500.0	68	26881	No
13	GOM_NL__2PRFIN20070422_005749_000000422057_00274_26881_1945.N1	22-APR-2007 00:57:49	Bright	41.500	164	44Eta Peg	2.9480	5400.0	83	26881	No
14	GOM_NL__2PRFIN20070422_010158_000000402057_00274_26881_1946.N1	22-APR-2007 01:01:58	Twilight_stray	39.500	90	54Alp Peg	2.4870	11000.	79	26881	No
15	GOM_NL__2PRFIN20070422_011429_000000432057_00274_26881_1947.N1	22-APR-2007 01:14:29	Dark	43.000	18	24Alp PsA	1.1660	9700.0	86	26881	No
16	GOM_NL__2PRFIN20070422_012004_000000392057_00274_26881_1948.N1	22-APR-2007 01:20:04	Dark	39.000	31	Alp Gru	1.7340	15200.	78	26881	No
17	GOM_NL__2PRFIN20070422_012305_000000382057_00274_26881_1949.N1	22-APR-2007 01:23:05	Dark	38.000	148	Alp Tuc	2.8780	4100.0	76	26881	No
18	GOM_NL__2PRFIN20070422_012516_000000402057_00275_26882_1944.N1	22-APR-2007 01:25:16	Dark	40.000	45	Alp Pav	1.9400	26000.	80	26882	No
19	GOM_NL__2PRFIN20070422_013224_000000402057_00275_26882_1945.N1	22-APR-2007 01:32:24	Dark	40.000	43	Alp TrA	1.9100	4250.0	80	26882	No
20	GOM_NL__2PRFIN20070422_013434_000000392057_00275_26882_1946.N1	22-APR-2007 01:34:34	Straylight	39.000	134	Bet TrA	2.8100	6600.0	78	26882	No
21	GOM_NL__2PRFIN20070422_013650_000000432057_00275_26882_1947.N1	22-APR-2007 01:36:50	Straylight	43.000	4	Alp1Cen	-0.010000	5800.0	86	26882	No
22	GOM_NL__2PRFIN20070422_014007_000000392057_00275_26882_1948.N1	22-APR-2007 01:40:07	Straylight	39.000	78	Alp Lup	2.3040	28000.	78	26882	No
23	GOM_NL__2PRFIN20070422_014142_000000442057_00275_26882_1949.N1	22-APR-2007 01:41:42	Straylight	44.000	81	Eta Cen	2.3560	28000.	88	26882	No
24	GOM_NL__2PRFIN20070422_014356_000000492057_00275_26882_1950.N1	22-APR-2007 01:43:56	Straylight	48.500	54	5The Cen	2.0550	4500.0	97	26882	No
25	GOM_NL__2PRFIN20070422_014851_000000412057_00275_26882_1951.N1	22-APR-2007 01:48:51	Bright	40.500	106	9Bet Crv	2.6480	5600.0	81	26882	No
26	GOM_NL__2PRFIN20070422_015156_000000412057_00275_26882_1952.N1	22-APR-2007 01:51:56	Bright	41.000	15	67Alp Vir	0.97600	28000.	82	26882	No
27	GOM_NL__2PRFIN20070422_015458_000000352057_00275_26882_1953.N1	22-APR-2007 01:54:58	Bright	35.000	121	29Gam Vir	2.7400	7200.0	70	26882	No
28	GOM_NL__2PRFIN20070422_015832_000000372057_00275_26882_1954.N1	22-APR-2007 01:58:32	Bright	37.000	138	47Eps Vir	2.8280	4700.0	74	26882	No
29	GOM_NL__2PRFIN20070422_020629_000000362057_00275_26882_1955.N1	22-APR-2007 02:06:29	Bright	36.000	152	12Alp2CVn	2.8900	11000.	72	26882	No
30	GOM_NL__2PRFIN20070422_020827_000000362057_00275_26882_1956.N1	22-APR-2007 02:08:27	Bright	35.500	174	52Psi UMa	3.0040	4400.0	71	26882	No
31	GOM_NL__2PRFIN20070422_021037_000000342057_00275_26882_1957.N1	22-APR-2007 02:10:37	Bright	33.500	87	64Gam UMa	2.4330	11000.	67	26882	No
32	GOM_NL__2PRFIN20070422_021308_000000332057_00275_26882_1958.N1	22-APR-2007 02:13:08	Bright	33.000	36	50Alp UMa	1.8000	6300.0	66	26882	No
33	GOM_NL__2PRFIN20070422_022101_000000342057_00275_26882_1959.N1	22-APR-2007 02:21:01	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	26882	No
34	GOM_NL__2PRFIN20070422_022843_000000352057_00275_26882_1960.N1	22-APR-2007 02:28:43	Bright	34.500	76	27Gam Cas	2.3000	30000.	69	26882	No
35	GOM_NL__2PRFIN20070422_023001_000000352057_00275_26882_1961.N1	22-APR-2007 02:30:01	Bright	34.500	68	18Alp Cas	2.2250	4500.0	69	26882	No
36	GOM_NL__2PRFIN20070422_023825_000000562057_00275_26882_1962.N1	22-APR-2007 02:38:25	Bright	56.000	164	44Eta Peg	2.9480	5400.0	112	26882	No
37	GOM_NL__2PRFIN20070422_024234_000000402057_00275_26882_1963.N1	22-APR-2007 02:42:34	Twilight_stray	40.000	90	54Alp Peg	2.4870	11000.	80	26882	No
38	GOM_NL__2PRFIN20070422_025505_000000442057_00275_26882_1964.N1	22-APR-2007 02:55:05	Dark	43.500	18	24Alp PsA	1.1660	9700.0	87	26882	No
39	GOM_NL__2PRFIN20070422_025848_000000402057_00275_26882_1965.N1	22-APR-2007 02:58:48	Dark	39.500	172	Gam Gru	3.0030	13100.	79	26882	No
40	GOM_NL__2PRFIN20070422_030341_000000372057_00275_26882_1966.N1	22-APR-2007 03:03:41	Dark	36.500	148	Alp Tuc	2.8780	4100.0	73	26882	No
41	GOM_NL__2PRFIN20070422_030553_000000412057_00276_26883_1960.N1	22-APR-2007 03:05:53	Dark	40.500	45	Alp Pav	1.9400	26000.	81	26883	No
42	GOM_NL__2PRFIN20070422_031301_000000402057_00276_26883_1961.N1	22-APR-2007 03:13:01	Dark	39.500	43	Alp TrA	1.9100	4250.0	79	26883	No

161	GOM_NL__2PRFIN20070422_113603_000000402057_00281_26888_2040.N1	22-APR-2007 11:36:03	Dark	40.000	43	Alp TrA	1.9100	4250.0	80	26888	No
162	GOM_NL__2PRFIN20070422_113812_000000382057_00281_26888_2041.N1	22-APR-2007 11:38:12	Straylight	37.500	134	Bet TrA	2.8100	6600.0	75	26888	No
163	GOM_NL__2PRFIN20070422_114028_000000462057_00281_26888_2042.N1	22-APR-2007 11:40:28	Straylight	45.500	4	Alp1Cen	-0.010000	5800.0	91	26888	No
164	GOM_NL__2PRFIN20070422_114345_000000392057_00281_26888_2043.N1	22-APR-2007 11:43:45	Straylight	38.500	78	Alp Lup	2.3040	28000.	77	26888	No
165	GOM_NL__2PRFIN20070422_114520_000000442057_00281_26888_2044.N1	22-APR-2007 11:45:20	Straylight	44.000	81	Eta Cen	2.3560	28000.	88	26888	No
166	GOM_NL__2PRFIN20070422_114734_000000472057_00281_26888_2045.N1	22-APR-2007 11:47:34	Straylight	46.500	54	5The Cen	2.0550	4500.0	93	26888	No
167	GOM_NL__2PRFIN20070422_115228_000000392057_00281_26888_2046.N1	22-APR-2007 11:52:28	Bright	39.000	106	9Bet Crv	2.6480	5600.0	78	26888	No
168	GOM_NL__2PRFIN20070422_115532_000000412057_00281_26888_2047.N1	22-APR-2007 11:55:32	Bright	41.000	15	67Alp Vir	0.97600	28000.	82	26888	No
169	GOM_NL__2PRFIN20070422_115834_000000362057_00281_26888_2048.N1	22-APR-2007 11:58:34	Bright	35.500	121	29Gam Vir	2.7400	7200.0	71	26888	No
170	GOM_NL__2PRFIN20070422_120207_000000362057_00281_26888_2049.N1	22-APR-2007 12:02:07	Bright	36.000	138	47Eps Vir	2.8280	4700.0	72	26888	No
171	GOM_NL__2PRFIN20070422_121003_000000362057_00281_26888_2050.N1	22-APR-2007 12:10:03	Bright	35.500	152	12Alp2CVn	2.8900	11000.	71	26888	No
172	GOM_NL__2PRFIN20070422_121204_000000332057_00281_26888_2051.N1	22-APR-2007 12:12:04	Bright	33.000	174	52Psi UMa	3.0040	4400.0	66	26888	No
173	GOM_NL__2PRFIN20070422_121413_000000342057_00281_26888_2052.N1	22-APR-2007 12:14:13	Bright	34.000	87	64Gam UMa	2.4330	11000.	68	26888	No
174	GOM_NL__2PRFIN20070422_121645_000000382057_00281_26888_2053.N1	22-APR-2007 12:16:45	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	26888	No
175	GOM_NL__2PRFIN20070422_122437_000000322057_00281_26888_2054.N1	22-APR-2007 12:24:37	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	26888	No
176	GOM_NL__2PRFIN20070422_123220_000000502057_00281_26888_2055.N1	22-APR-2007 12:32:20	Bright	50.000	76	27Gam Cas	2.3000	30000.	100	26888	No
177	GOM_NL__2PRFIN20070422_123337_000000342057_00281_26888_2056.N1	22-APR-2007 12:33:37	Bright	33.500	68	18Alp Cas	2.2250	4500.0	67	26888	No
178	GOM_NL__2PRFIN20070422_124202_000000372057_00281_26888_2057.N1	22-APR-2007 12:42:02	Bright	36.500	164	44Eta Peg	2.9480	5400.0	73	26888	No
179	GOM_NL__2PRFIN20070422_124612_000000422057_00281_26888_2058.N1	22-APR-2007 12:46:12	Twi_and_stray	42.000	90	54Alp Peg	2.4870	11000.	84	26888	No
180	GOM_NL__2PRFIN20070422_125843_000000422057_00281_26888_2059.N1	22-APR-2007 12:58:43	Dark	41.500	18	24Alp PsA	1.1660	9700.0	83	26888	No
181	GOM_NL__2PRFIN20070422_130227_000000402057_00281_26888_2060.N1	22-APR-2007 13:02:27	Dark	39.500	172	Gam Gru	3.0030	13100.	79	26888	No
182	GOM_NL__2PRFIN20070422_130419_000000412057_00281_26888_2061.N1	22-APR-2007 13:04:19	Dark	41.000	31	Alp Gru	1.7340	15200.	82	26888	No
183	GOM_NL__2PRFIN20070422_130719_000000452057_00281_26888_2062.N1	22-APR-2007 13:07:19	Dark	45.000	148	Alp Tuc	2.8780	4100.0	90	26888	No
184	GOM_NL__2PRFIN20070422_130932_000000402057_00282_26889_2053.N1	22-APR-2007 13:09:32	Dark	40.000	45	Alp Pav	1.9400	26000.	80	26889	No
185	GOM_NL__2PRFIN20070422_131639_000000412057_00282_26889_2054.N1	22-APR-2007 13:16:39	Dark	41.000	43	Alp TrA	1.9100	4250.0	82	26889	No
186	GOM_NL__2PRFIN20070422_131848_000000392057_00282_26889_2055.N1	22-APR-2007 13:18:48	Straylight	39.000	134	Bet TrA	2.8100	6600.0	78	26889	No
187	GOM_NL__2PRFIN20070422_132104_000000452057_00282_26889_2056.N1	22-APR-2007 13:21:04	Straylight	45.000	4	Alp1Cen	-0.010000	5800.0	90	26889	No
188	GOM_NL__2PRFIN20070422_132421_000000402057_00282_26889_2057.N1	22-APR-2007 13:24:21	Straylight	40.000	78	Alp Lup	2.3040	28000.	80	26889	No
189	GOM_NL__2PRFIN20070422_132556_000000422057_00282_26889_2058.N1	22-APR-2007 13:25:56	Straylight	42.000	81	Eta Cen	2.3560	28000.	84	26889	No
190	GOM_NL__2PRFIN20070422_132810_000000452057_00282_26889_2059.N1	22-APR-2007 13:28:10	Straylight	44.500	54	5The Cen	2.0550	4500.0	89	26889	No
191	GOM_NL__2PRFIN20070422_133304_000000392057_00282_26889_2060.N1	22-APR-2007 13:33:04	Bright	38.500	106	9Bet Crv	2.6480	5600.0	77	26889	No
192	GOM_NL__2PRFIN20070422_133608_000000402057_00282_26889_2061.N1	22-APR-2007 13:36:08	Bright	40.000	15	67Alp Vir	0.97600	28000.	80	26889	No
193	GOM_NL__2PRFIN20070422_133910_000000362057_00282_26889_2062.N1	22-APR-2007 13:39:10	Bright	36.000	121	29Gam Vir	2.7400	7200.0	72	26889	No
194	GOM_NL__2PRFIN20070422_134243_000000372057_00282_26889_2063.N1	22-APR-2007 13:42:43	Bright	36.500	138	47Eps Vir	2.8280	4700.0	73	26889	No
195	GOM_NL__2PRFIN20070422_135039_000000372057_00282_26889_2064.N1	22-APR-2007 13:50:39	Bright	37.000	152	12Alp2CVn	2.8900	11000.	74	26889	No
196	GOM_NL__2PRFIN20070422_135240_000000372057_00282_26889_2065.N1	22-APR-2007 13:52:40	Bright	37.000	174	52Psi UMa	3.0040	4400.0	74	26889	No
197	GOM_NL__2PRFIN20070422_135450_000000362057_00282_26889_2066.N1	22-APR-2007 13:54:50	Bright	35.500	87	64Gam UMa	2.4330	11000.	71	26889	No
198	GOM_NL__2PRFIN20070422_135721_000000372057_00282_26889_2067.N1	22-APR-2007 13:57:21	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	26889	No
199	GOM_NL__2PRFIN20070422_140513_000000342057_00282_26889_2068.N1	22-APR-2007 14:05:13	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	26889	No
200	GOM_NL__2PRFIN20070422_141255_000000332057_00282_26889_2069.N1	22-APR-2007 14:12:55	Bright	33.000	76	27Gam Cas	2.3000	30000.	66	26889	No
201	GOM_NL__2PRFIN20070422_141413_000000342057_00282_26889_2070.N1	22-APR-2007 14:14:13	Bright	33.500	68	18Alp Cas	2.2250	4500.0	67	26889	No
202	GOM_NL__2PRFIN20070422_142238_000000382057_00282_26889_2071.N1	22-APR-2007 14:22:38	Bright	37.500	164	44Eta Peg	2.9480	5400.0	75	26889	No
203	GOM_NL__2PRFIN20070422_142648_000000422057_00282_26889_2072.N1	22-APR-2007 14:26:48	Twi_and_stray	41.500	90	54Alp Peg	2.4870	11000.	83	26889	No
204	GOM_NL__2PRFIN20070422_143919_000000422057_00282_26889_2073.N1	22-APR-2007 14:39:19	Dark	41.500	18	24Alp PsA	1.1660	9700.0	83	26889	No
205	GOM_NL__2PRFIN20070422_144304_000000392057_00282_26889_2074.N1	22-APR-2007 14:43:04	Dark	39.000	172	Gam Gru	3.0030	13100.	78	26889	No
206	GOM_NL__2PRFIN20070422_144455_000000402057_00282_26889_2075.N1	22-APR-2007 14:44:55	Dark	40.000	31	Alp Gru	1.7340	15200.	80	26889	No
207	GOM_NL__2PRFIN20070422_144755_000000382057_00282_26889_2076.N1	22-APR-2007 14:47:55	Dark	37.500	148	Alp Tuc	2.8780	4100.0	75	26889	No
208	GOM_NL__2PRFIN20070422_145008_000000402057_00283_26890_2088.N1	22-APR-2007 14:50:08	Dark	40.000	45	Alp Pav	1.9400	26000.	80	26890	No
209	GOM_NL__2PRFIN20070422_145715_000000392057_00283_26890_2089.N1	22-APR-2007 14:57:15	Dark	38.500	43	Alp TrA	1.9100	4250.0	77	26890	No
210	GOM_NL__2PRFIN20070422_145924_000000382057_00283_26890_2090.N1	22-APR-2007 14:59:24	Straylight	38.000	134	Bet TrA	2.8100	6600.0	76	26890	No
211	GOM_NL__2PRFIN20070422_150140_000000392057_00283_26890_2091.N1	22-APR-2007 15:01:40	Straylight	39.000	4	Alp1Cen	-0.010000	5800.0	78	26890	No
212	GOM_NL__2PRFIN20070422_150458_000000402057_00283_26890_2092.N1	22-APR-2007 15:04:58	Straylight	39.500	78	Alp Lup	2.3040	28000.	79	26890	No
213	GOM_NL__2PRFIN20070422_150632_000000422057_00283_26890_2093.N1	22-APR-2007 15:06:32	Straylight	41.500	81	Eta Cen	2.3560	28000.	83	26890	No
214	GOM_NL__2PRFIN20070422_150847_000000462057_00283_26890_2094.N1	22-APR-2007 15:08:47	Straylight	45.500	54	5The Cen	2.0550	4500.0	91	26890	No
215	GOM_NL__2PRFIN20070422_151340_000000432057_00283_26890_2095.N1	22-APR-2007 15:13:40	Bright	42.500	106	9Bet Crv	2.6480	5600.0	85	26890	No
216	GOM_NL__2PRFIN20070422_151644_000000412057_00283_26890_2096.N1	22-APR-2007 15:16:44	Bright	41.000	15	67Alp Vir	0.97600	28000.	82	26890	No
217	GOM_NL__2PRFIN20070422_151946_000000362057_00283_26890_2097.N1	22-APR-2007 15:19:46	Bright	36.000	121	29Gam Vir	2.7400	7200.0	72	26890	No
218	GOM_NL__2PRFIN20070422_152319_000000372057_00283_26890_2098.N1	22-APR-2007 15:23:19	Bright	36.500	138	47Eps Vir	2.8280	4700.0	73	26890	No
219	GOM_NL__2PRFIN20070422_153115_000000362057_00283_26890_2099.N1	22-APR-2007 15:31:15	Bright	36.000	152	12Alp2CVn	2.8900	11000.	72	26890	No

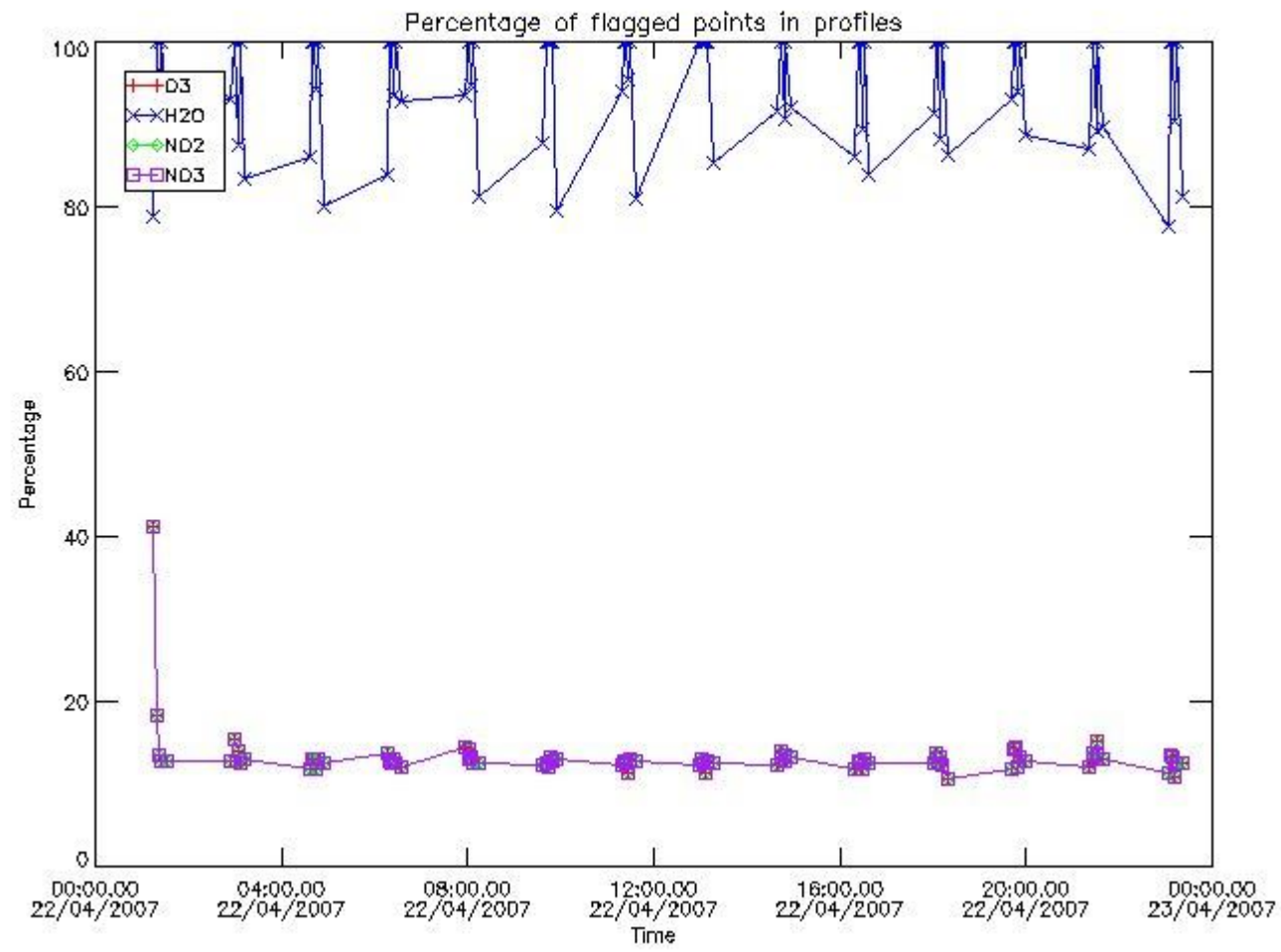
220	GOM_NL__2PRFIN20070422_153316_000000332057_00283_26890_2100.N1	22-APR-2007 15:33:16	Bright	33.000	174	52Psi UMa	3.0040	4400.0	66	26890	No
221	GOM_NL__2PRFIN20070422_153526_000000352057_00283_26890_2101.N1	22-APR-2007 15:35:26	Bright	35.000	87	64Gam UMa	2.4330	11000.	70	26890	No
222	GOM_NL__2PRFIN20070422_153757_000000372057_00283_26890_2102.N1	22-APR-2007 15:37:57	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	26890	No
223	GOM_NL__2PRFIN20070422_154549_000000362057_00283_26890_2103.N1	22-APR-2007 15:45:49	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	26890	No
224	GOM_NL__2PRFIN20070422_155332_000000342057_00283_26890_2104.N1	22-APR-2007 15:53:32	Bright	33.500	76	27Gam Cas	2.3000	30000.	67	26890	No
225	GOM_NL__2PRFIN20070422_155449_000000332057_00283_26890_2105.N1	22-APR-2007 15:54:49	Bright	33.000	68	18Alp Cas	2.2250	4500.0	66	26890	No
226	GOM_NL__2PRFIN20070422_160314_000000522057_00283_26890_2106.N1	22-APR-2007 16:03:14	Bright	51.500	164	44Eta Peg	2.9480	5400.0	103	26890	No
227	GOM_NL__2PRFIN20070422_160724_000000432057_00283_26890_2107.N1	22-APR-2007 16:07:24	Twilight_and_stray	43.000	90	54Alp Peg	2.4870	11000.	86	26890	No
228	GOM_NL__2PRFIN20070422_161955_000000442057_00283_26890_2108.N1	22-APR-2007 16:19:55	Dark	43.500	18	24Alp PsA	1.1660	9700.0	87	26890	No
229	GOM_NL__2PRFIN20070422_162340_000000402057_00283_26890_2109.N1	22-APR-2007 16:23:40	Dark	40.000	172	Gam Gru	3.0030	13100.	80	26890	No
230	GOM_NL__2PRFIN20070422_162531_000000412057_00283_26890_2110.N1	22-APR-2007 16:25:31	Dark	41.000	31	Alp Gru	1.7340	15200.	82	26890	No
231	GOM_NL__2PRFIN20070422_162831_000000432057_00283_26890_2111.N1	22-APR-2007 16:28:31	Dark	43.000	148	Alp Tuc	2.8780	4100.0	86	26890	No
232	GOM_NL__2PRFIN20070422_163045_000000402057_00284_26891_2103.N1	22-APR-2007 16:30:45	Dark	39.500	45	Alp Pav	1.9400	26000.	79	26891	No
233	GOM_NL__2PRFIN20070422_163752_000000412057_00284_26891_2104.N1	22-APR-2007 16:37:52	Dark	41.000	43	Alp TrA	1.9100	4250.0	82	26891	No
234	GOM_NL__2PRFIN20070422_164001_000000382057_00284_26891_2105.N1	22-APR-2007 16:40:01	Straylight	37.500	134	Bet TrA	2.8100	6600.0	75	26891	No
235	GOM_NL__2PRFIN20070422_164216_000000502057_00284_26891_2106.N1	22-APR-2007 16:42:16	Straylight	50.000	4	Alp1Cen	-0.010000	5800.0	100	26891	No
236	GOM_NL__2PRFIN20070422_164534_000000402057_00284_26891_2107.N1	22-APR-2007 16:45:34	Straylight	39.500	78	Alp Lup	2.3040	28000.	79	26891	No
237	GOM_NL__2PRFIN20070422_164709_000000432057_00284_26891_2108.N1	22-APR-2007 16:47:09	Straylight	42.500	81	Eta Cen	2.3560	28000.	85	26891	No
238	GOM_NL__2PRFIN20070422_164923_000000442057_00284_26891_2109.N1	22-APR-2007 16:49:23	Straylight	43.500	54	5The Cen	2.0550	4500.0	87	26891	No
239	GOM_NL__2PRFIN20070422_165416_000000412057_00284_26891_2110.N1	22-APR-2007 16:54:16	Bright	41.000	106	9Bet Crv	2.6480	5600.0	82	26891	No
240	GOM_NL__2PRFIN20070422_165720_000000402057_00284_26891_2111.N1	22-APR-2007 16:57:20	Bright	40.000	15	67Alp Vir	0.97600	28000.	80	26891	No
241	GOM_NL__2PRFIN20070422_170022_000000382057_00284_26891_2112.N1	22-APR-2007 17:00:22	Bright	37.500	121	29Gam Vir	2.7400	7200.0	75	26891	No
242	GOM_NL__2PRFIN20070422_170355_000000362057_00284_26891_2113.N1	22-APR-2007 17:03:55	Bright	36.000	138	47Eps Vir	2.8280	4700.0	72	26891	No
243	GOM_NL__2PRFIN20070422_171151_000000362057_00284_26891_2114.N1	22-APR-2007 17:11:51	Bright	36.000	152	12Alp2CVn	2.8900	11000.	72	26891	No
244	GOM_NL__2PRFIN20070422_171352_000000332057_00284_26891_2115.N1	22-APR-2007 17:13:52	Bright	33.000	174	52Psi UMa	3.0040	4400.0	66	26891	No
245	GOM_NL__2PRFIN20070422_171602_000000362057_00284_26891_2116.N1	22-APR-2007 17:16:02	Bright	35.500	87	64Gam UMa	2.4330	11000.	71	26891	No
246	GOM_NL__2PRFIN20070422_171833_000000342057_00284_26891_2117.N1	22-APR-2007 17:18:33	Bright	34.000	36	50Alp UMa	1.8000	6300.0	68	26891	No
247	GOM_NL__2PRFIN20070422_172625_000000362057_00284_26891_2118.N1	22-APR-2007 17:26:25	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	26891	No
248	GOM_NL__2PRFIN20070422_173408_000000342057_00284_26891_2119.N1	22-APR-2007 17:34:08	Bright	33.500	76	27Gam Cas	2.3000	30000.	67	26891	No
249	GOM_NL__2PRFIN20070422_173525_000000342057_00284_26891_2120.N1	22-APR-2007 17:35:25	Bright	34.000	68	18Alp Cas	2.2250	4500.0	68	26891	No
250	GOM_NL__2PRFIN20070422_174351_000000532057_00284_26891_2121.N1	22-APR-2007 17:43:51	Bright	52.500	164	44Eta Peg	2.9480	5400.0	105	26891	No
251	GOM_NL__2PRFIN20070422_174800_000000412057_00284_26891_2122.N1	22-APR-2007 17:48:00	Twilight_and_stray	40.500	90	54Alp Peg	2.4870	11000.	81	26891	No
252	GOM_NL__2PRFIN20070422_180032_000000412057_00284_26891_2123.N1	22-APR-2007 18:00:32	Dark	40.500	18	24Alp PsA	1.1660	9700.0	81	26891	No
253	GOM_NL__2PRFIN20070422_180417_000000372057_00284_26891_2124.N1	22-APR-2007 18:04:17	Dark	37.000	172	Gam Gru	3.0030	13100.	74	26891	No
254	GOM_NL__2PRFIN20070422_180608_000000452057_00284_26891_2125.N1	22-APR-2007 18:06:08	Dark	45.000	31	Alp Gru	1.7340	15200.	90	26891	No
255	GOM_NL__2PRFIN20070422_180907_000000392057_00284_26891_2126.N1	22-APR-2007 18:09:07	Dark	38.500	148	Alp Tuc	2.8780	4100.0	77	26891	No
256	GOM_NL__2PRFIN20070422_181122_000000422057_00285_26892_2119.N1	22-APR-2007 18:11:22	Dark	41.500	45	Alp Pav	1.9400	26000.	83	26892	No
257	GOM_NL__2PRFIN20070422_181828_000000482057_00285_26892_2120.N1	22-APR-2007 18:18:28	Dark	48.000	43	Alp TrA	1.9100	4250.0	96	26892	No
258	GOM_NL__2PRFIN20070422_182037_000000382057_00285_26892_2121.N1	22-APR-2007 18:20:37	Straylight	38.000	134	Bet TrA	2.8100	6600.0	76	26892	No
259	GOM_NL__2PRFIN20070422_182253_000000452057_00285_26892_2122.N1	22-APR-2007 18:22:53	Straylight	45.000	4	Alp1Cen	-0.010000	5800.0	90	26892	No
260	GOM_NL__2PRFIN20070422_182611_000000392057_00285_26892_2123.N1	22-APR-2007 18:26:11	Straylight	39.000	78	Alp Lup	2.3040	28000.	78	26892	No
261	GOM_NL__2PRFIN20070422_182745_000000412057_00285_26892_2124.N1	22-APR-2007 18:27:45	Straylight	40.500	81	Eta Cen	2.3560	28000.	81	26892	No
262	GOM_NL__2PRFIN20070422_182959_000000482057_00285_26892_2125.N1	22-APR-2007 18:29:59	Straylight	48.000	54	5The Cen	2.0550	4500.0	96	26892	No
263	GOM_NL__2PRFIN20070422_183452_000000412057_00285_26892_2126.N1	22-APR-2007 18:34:52	Bright	41.000	106	9Bet Crv	2.6480	5600.0	82	26892	No
264	GOM_NL__2PRFIN20070422_183756_000000402057_00285_26892_2127.N1	22-APR-2007 18:37:56	Bright	39.500	15	67Alp Vir	0.97600	28000.	79	26892	No
265	GOM_NL__2PRFIN20070422_184058_000000352057_00285_26892_2128.N1	22-APR-2007 18:40:58	Bright	35.000	121	29Gam Vir	2.7400	7200.0	70	26892	No
266	GOM_NL__2PRFIN20070422_184431_000000372057_00285_26892_2129.N1	22-APR-2007 18:44:31	Bright	37.000	138	47Eps Vir	2.8280	4700.0	74	26892	No
267	GOM_NL__2PRFIN20070422_185227_000000372057_00285_26892_2130.N1	22-APR-2007 18:52:27	Bright	36.500	152	12Alp2CVn	2.8900	11000.	73	26892	No
268	GOM_NL__2PRFIN20070422_185638_000000352057_00285_26892_2131.N1	22-APR-2007 18:56:38	Bright	34.500	87	64Gam UMa	2.4330	11000.	69	26892	No
269	GOM_NL__2PRFIN20070422_185909_000000362057_00285_26892_2132.N1	22-APR-2007 18:59:09	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	26892	No
270	GOM_NL__2PRFIN20070422_190701_000000342057_00285_26892_2133.N1	22-APR-2007 19:07:01	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	26892	No
271	GOM_NL__2PRFIN20070422_191444_000000372057_00285_26892_2134.N1	22-APR-2007 19:14:44	Bright	37.000	76	27Gam Cas	2.3000	30000.	74	26892	No
272	GOM_NL__2PRFIN20070422_191602_000000332057_00285_26892_2135.N1	22-APR-2007 19:16:02	Bright	33.000	68	18Alp Cas	2.2250	4500.0	66	26892	No
273	GOM_NL__2PRFIN20070422_192427_000000382057_00285_26892_2136.N1	22-APR-2007 19:24:27	Bright	38.000	164	44Eta Peg	2.9480	5400.0	76	26892	No
274	GOM_NL__2PRFIN20070422_192836_000000412057_00285_26892_2137.N1	22-APR-2007 19:28:36	Twilight_and_stray	40.500	90	54Alp Peg	2.4870	11000.	81	26892	No
275	GOM_NL__2PRFIN20070422_194108_000000442057_00285_26892_2138.N1	22-APR-2007 19:41:08	Dark	43.500	18	24Alp PsA	1.1660	9700.0	87	26892	No
276	GOM_NL__2PRFIN20070422_194453_000000402057_00285_26892_2139.N1	22-APR-2007 19:44:53	Dark	39.500	172	Gam Gru	3.0030	13100.	79	26892	No
277	GOM_NL__2PRFIN20070422_194644_000000422057_00285_26892_2140.N1	22-APR-2007 19:46:44	Dark	42.000	31	Alp Gru	1.7340	15200.	84	26892	No
278	GOM_NL__2PRFIN20070422_194944_000000432057_00285_26892_2141.N1	22-APR-2007 19:49:44	Dark	42.500	148	Alp Tuc	2.8780	4100.0	85	26892	No

279	GOM_NL_2PRFIN20070422_195158_000000392057_00286_26893_2135.N1	22-APR-2007 19:51:58	Dark	38.500	45	Alp Pav	1.9400	26000.	77	26893	No
280	GOM_NL_2PRFIN20070422_195904_000000402057_00286_26893_2136.N1	22-APR-2007 19:59:04	Dark	40.000	43	Alp TrA	1.9100	4250.0	80	26893	No
281	GOM_NL_2PRFIN20070422_200114_000000372057_00286_26893_2137.N1	22-APR-2007 20:01:14	Straylight	37.000	134	Bet TrA	2.8100	6600.0	74	26893	No
282	GOM_NL_2PRFIN20070422_200329_000000492057_00286_26893_2138.N1	22-APR-2007 20:03:29	Straylight	48.500	4	Alp1Cen	-0.010000	5800.0	97	26893	No
283	GOM_NL_2PRFIN20070422_200647_000000452057_00286_26893_2139.N1	22-APR-2007 20:06:47	Straylight	44.500	78	Alp Lup	2.3040	28000.	89	26893	No
284	GOM_NL_2PRFIN20070422_200821_000000442057_00286_26893_2140.N1	22-APR-2007 20:08:21	Straylight	43.500	81	Eta Cen	2.3560	28000.	87	26893	No
285	GOM_NL_2PRFIN20070422_201035_000000462057_00286_26893_2141.N1	22-APR-2007 20:10:35	Straylight	45.500	54	5The Cen	2.0550	4500.0	91	26893	No
286	GOM_NL_2PRFIN20070422_201529_000000412057_00286_26893_2142.N1	22-APR-2007 20:15:29	Bright	40.500	106	9Bet Crv	2.6480	5600.0	81	26893	No
287	GOM_NL_2PRFIN20070422_201832_000000412057_00286_26893_2143.N1	22-APR-2007 20:18:32	Bright	41.000	15	67Alp Vir	0.97600	28000.	82	26893	No
288	GOM_NL_2PRFIN20070422_202134_000000362057_00286_26893_2144.N1	22-APR-2007 20:21:34	Bright	35.500	121	29Gam Vir	2.7400	7200.0	71	26893	No
289	GOM_NL_2PRFIN20070422_202507_000000372057_00286_26893_2145.N1	22-APR-2007 20:25:07	Bright	36.500	138	47Eps Vir	2.8280	4700.0	73	26893	No
290	GOM_NL_2PRFIN20070422_203302_000000362057_00286_26893_2146.N1	22-APR-2007 20:33:02	Bright	36.000	152	12Alp2CVn	2.8900	11000.	72	26893	No
291	GOM_NL_2PRFIN20070422_203714_000000362057_00286_26893_2147.N1	22-APR-2007 20:37:14	Bright	35.500	87	64Gam UMa	2.4330	11000.	71	26893	No
292	GOM_NL_2PRFIN20070422_203945_000000362057_00286_26893_2148.N1	22-APR-2007 20:39:45	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	26893	No
293	GOM_NL_2PRFIN20070422_204737_000000342057_00286_26893_2149.N1	22-APR-2007 20:47:37	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	26893	No
294	GOM_NL_2PRFIN20070422_205520_000000342057_00286_26893_2150.N1	22-APR-2007 20:55:20	Bright	33.500	76	27Gam Cas	2.3000	30000.	67	26893	No
295	GOM_NL_2PRFIN20070422_205638_000000342057_00286_26893_2151.N1	22-APR-2007 20:56:38	Bright	33.500	68	18Alp Cas	2.2250	4500.0	67	26893	No
296	GOM_NL_2PRFIN20070422_210503_000000382057_00286_26893_2152.N1	22-APR-2007 21:05:03	Bright	38.000	164	44Eta Peg	2.9480	5400.0	76	26893	No
297	GOM_NL_2PRFIN20070422_210913_000000402057_00286_26893_2153.N1	22-APR-2007 21:09:13	Tw_i_and_stray	40.000	90	54Alp Peg	2.4870	11000.	80	26893	No
298	GOM_NL_2PRFIN20070422_212144_000000432057_00286_26893_2154.N1	22-APR-2007 21:21:44	Dark	42.500	18	24Alp PsA	1.1660	9700.0	85	26893	No
299	GOM_NL_2PRFIN20070422_212530_000000402057_00286_26893_2155.N1	22-APR-2007 21:25:30	Dark	39.500	172	Gam Gru	3.0030	13100.	79	26893	No
300	GOM_NL_2PRFIN20070422_212721_000000372057_00286_26893_2156.N1	22-APR-2007 21:27:21	Dark	37.000	31	Alp Gru	1.7340	15200.	74	26893	No
301	GOM_NL_2PRFIN20070422_213020_000000372057_00286_26893_2157.N1	22-APR-2007 21:30:20	Dark	37.000	148	Alp Tuc	2.8780	4100.0	74	26893	No
302	GOM_NL_2PRFIN20070422_213235_000000382057_00287_26894_2146.N1	22-APR-2007 21:32:35	Dark	38.000	45	Alp Pav	1.9400	26000.	76	26894	No
303	GOM_NL_2PRFIN20070422_213941_000000402057_00287_26894_2147.N1	22-APR-2007 21:39:41	Dark	39.500	43	Alp TrA	1.9100	4250.0	79	26894	No
304	GOM_NL_2PRFIN20070422_214150_000000372057_00287_26894_2148.N1	22-APR-2007 21:41:50	Straylight	36.500	134	Bet TrA	2.8100	6600.0	73	26894	No
305	GOM_NL_2PRFIN20070422_214405_000000432057_00287_26894_2149.N1	22-APR-2007 21:44:05	Straylight	42.500	4	Alp1Cen	-0.010000	5800.0	85	26894	No
306	GOM_NL_2PRFIN20070422_214723_000000432057_00287_26894_2150.N1	22-APR-2007 21:47:23	Straylight	43.000	78	Alp Lup	2.3040	28000.	86	26894	No
307	GOM_NL_2PRFIN20070422_214858_000000412057_00287_26894_2151.N1	22-APR-2007 21:48:58	Straylight	41.000	81	Eta Cen	2.3560	28000.	82	26894	No
308	GOM_NL_2PRFIN20070422_215112_000000442057_00287_26894_2152.N1	22-APR-2007 21:51:12	Straylight	44.000	54	5The Cen	2.0550	4500.0	88	26894	No
309	GOM_NL_2PRFIN20070422_215605_000000472057_00287_26894_2153.N1	22-APR-2007 21:56:05	Bright	46.500	106	9Bet Crv	2.6480	5600.0	93	26894	No
310	GOM_NL_2PRFIN20070422_215908_000000402057_00287_26894_2154.N1	22-APR-2007 21:59:08	Bright	39.500	15	67Alp Vir	0.97600	28000.	79	26894	No
311	GOM_NL_2PRFIN20070422_220210_000000362057_00287_26894_2155.N1	22-APR-2007 22:02:10	Bright	36.000	121	29Gam Vir	2.7400	7200.0	72	26894	No
312	GOM_NL_2PRFIN20070422_220543_000000372057_00287_26894_2156.N1	22-APR-2007 22:05:43	Bright	36.500	138	47Eps Vir	2.8280	4700.0	73	26894	No
313	GOM_NL_2PRFIN20070422_221338_000000352057_00287_26894_2157.N1	22-APR-2007 22:13:38	Bright	34.500	152	12Alp2CVn	2.8900	11000.	69	26894	No
314	GOM_NL_2PRFIN20070422_221750_000000352057_00287_26894_2158.N1	22-APR-2007 22:17:50	Bright	34.500	87	64Gam UMa	2.4330	11000.	69	26894	No
315	GOM_NL_2PRFIN20070422_222021_000000372057_00287_26894_2159.N1	22-APR-2007 22:20:21	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	26894	No
316	GOM_NL_2PRFIN20070422_222813_000000352057_00287_26894_2160.N1	22-APR-2007 22:28:13	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	26894	No
317	GOM_NL_2PRFIN20070422_223556_000000522057_00287_26894_2161.N1	22-APR-2007 22:35:56	Bright	52.000	76	27Gam Cas	2.3000	30000.	104	26894	No
318	GOM_NL_2PRFIN20070422_223714_000000522057_00287_26894_2162.N1	22-APR-2007 22:37:14	Bright	52.000	68	18Alp Cas	2.2250	4500.0	104	26894	No
319	GOM_NL_2PRFIN20070422_224539_000000382057_00287_26894_2163.N1	22-APR-2007 22:45:39	Bright	38.000	164	44Eta Peg	2.9480	5400.0	76	26894	No
320	GOM_NL_2PRFIN20070422_224949_000000412057_00287_26894_2164.N1	22-APR-2007 22:49:49	Tw_i_and_stray	40.500	90	54Alp Peg	2.4870	11000.	81	26894	No
321	GOM_NL_2PRFIN20070422_230221_000000452057_00287_26894_2165.N1	22-APR-2007 23:02:21	Dark	45.000	18	24Alp PsA	1.1660	9700.0	90	26894	No
322	GOM_NL_2PRFIN20070422_230606_000000382057_00287_26894_2166.N1	22-APR-2007 23:06:06	Dark	38.000	172	Gam Gru	3.0030	13100.	76	26894	No
323	GOM_NL_2PRFIN20070422_230757_000000392057_00287_26894_2167.N1	22-APR-2007 23:07:57	Dark	38.500	31	Alp Gru	1.7340	15200.	77	26894	No
324	GOM_NL_2PRFIN20070422_231056_000000472057_00287_26894_2168.N1	22-APR-2007 23:10:56	Dark	47.000	148	Alp Tuc	2.8780	4100.0	94	26894	No
325	GOM_NL_2PRFIN20070422_231311_000000412057_00288_26895_2191.N1	22-APR-2007 23:13:11	Dark	40.500	45	Alp Pav	1.9400	26000.	81	26895	No
326	GOM_NL_2PRFIN20070422_232017_000000412057_00288_26895_2192.N1	22-APR-2007 23:20:17	Dark	40.500	43	Alp TrA	1.9100	4250.0	81	26895	No
327	GOM_NL_2PRFIN20070422_232226_000000382057_00288_26895_2193.N1	22-APR-2007 23:22:26	Straylight	38.000	134	Bet TrA	2.8100	6600.0	76	26895	No
328	GOM_NL_2PRFIN20070422_232441_000000522057_00288_26895_2194.N1	22-APR-2007 23:24:41	Straylight	52.000	4	Alp1Cen	-0.010000	5800.0	104	26895	No
329	GOM_NL_2PRFIN20070422_232759_000000392057_00288_26895_2195.N1	22-APR-2007 23:27:59	Straylight	39.000	78	Alp Lup	2.3040	28000.	78	26895	No
330	GOM_NL_2PRFIN20070422_232934_000000402057_00288_26895_2196.N1	22-APR-2007 23:29:34	Straylight	40.000	81	Eta Cen	2.3560	28000.	80	26895	No
331	GOM_NL_2PRFIN20070422_233148_000000432057_00288_26895_2197.N1	22-APR-2007 23:31:48	Straylight	43.000	54	5The Cen	2.0550	4500.0	86	26895	No
332	GOM_NL_2PRFIN20070422_233641_000000482057_00288_26895_2198.N1	22-APR-2007 23:36:41	Bright	48.000	106	9Bet Crv	2.6480	5600.0	96	26895	No
333	GOM_NL_2PRFIN20070422_233944_000000402057_00288_26895_2199.N1	22-APR-2007 23:39:44	Bright	39.500	15	67Alp Vir	0.97600	28000.	79	26895	No
334	GOM_NL_2PRFIN20070422_234246_000000372057_00288_26895_2200.N1	22-APR-2007 23:42:46	Bright	36.500	121	29Gam Vir	2.7400	7200.0	73	26895	No
335	GOM_NL_2PRFIN20070422_234619_000000372057_00288_26895_2201.N1	22-APR-2007 23:46:19	Bright	36.500	138	47Eps Vir	2.8280	4700.0	73	26895	No
336	GOM_NL_2PRFIN20070422_235414_000000362057_00288_26895_2202.N1	22-APR-2007 23:54:14	Bright	35.500	152	12Alp2CVn	2.8900	11000.	71	26895	No
337	GOM_NL_2PRFIN20070422_235825_000000342057_00288_26895_2203.N1	22-APR-2007 23:58:25	Bright	33.500	87	64Gam UMa	2.4330	11000.	67	26895	No

3. Quality information per product

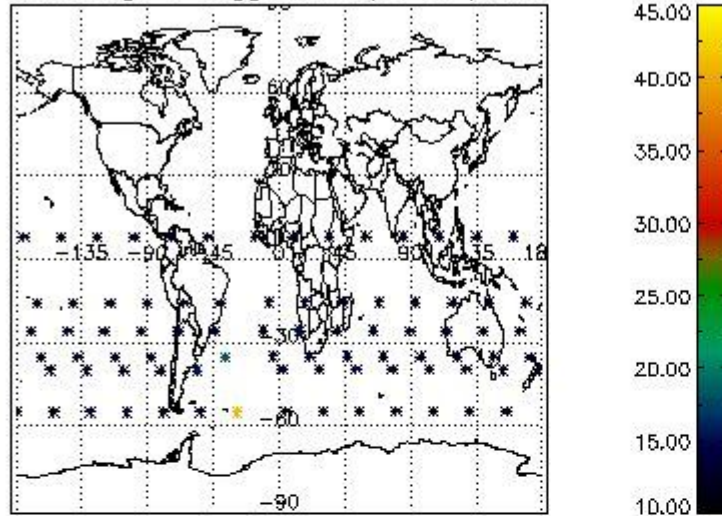
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

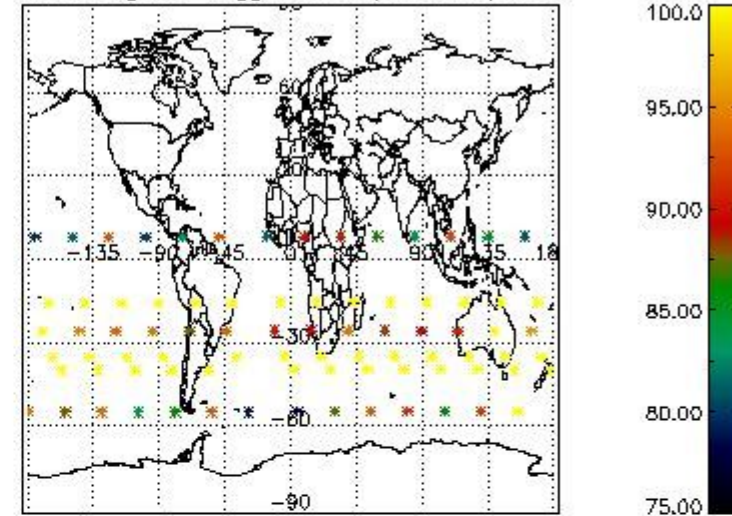


3.2 Plot quality information per product (world map)

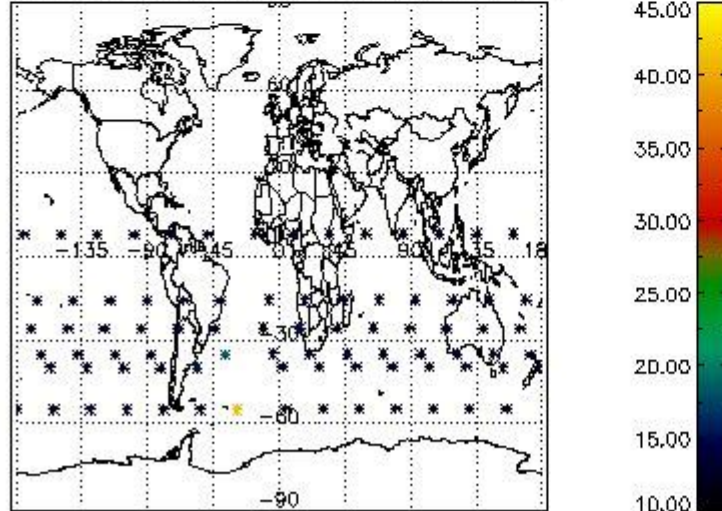
Percentage of flagged data per O3 profile



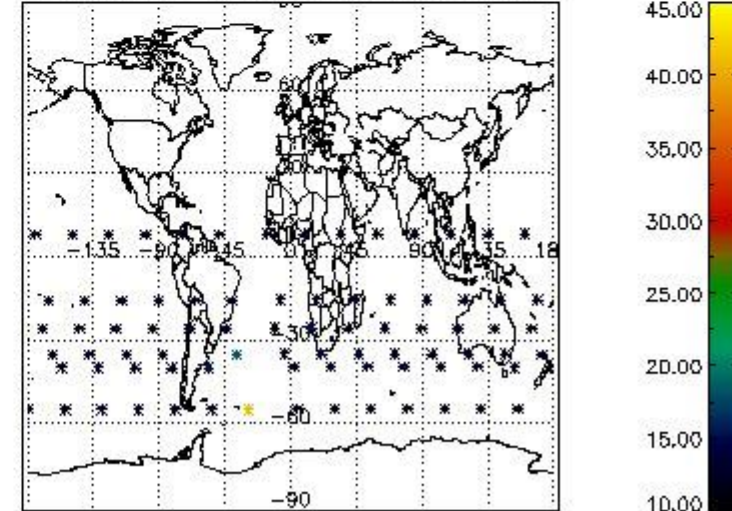
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

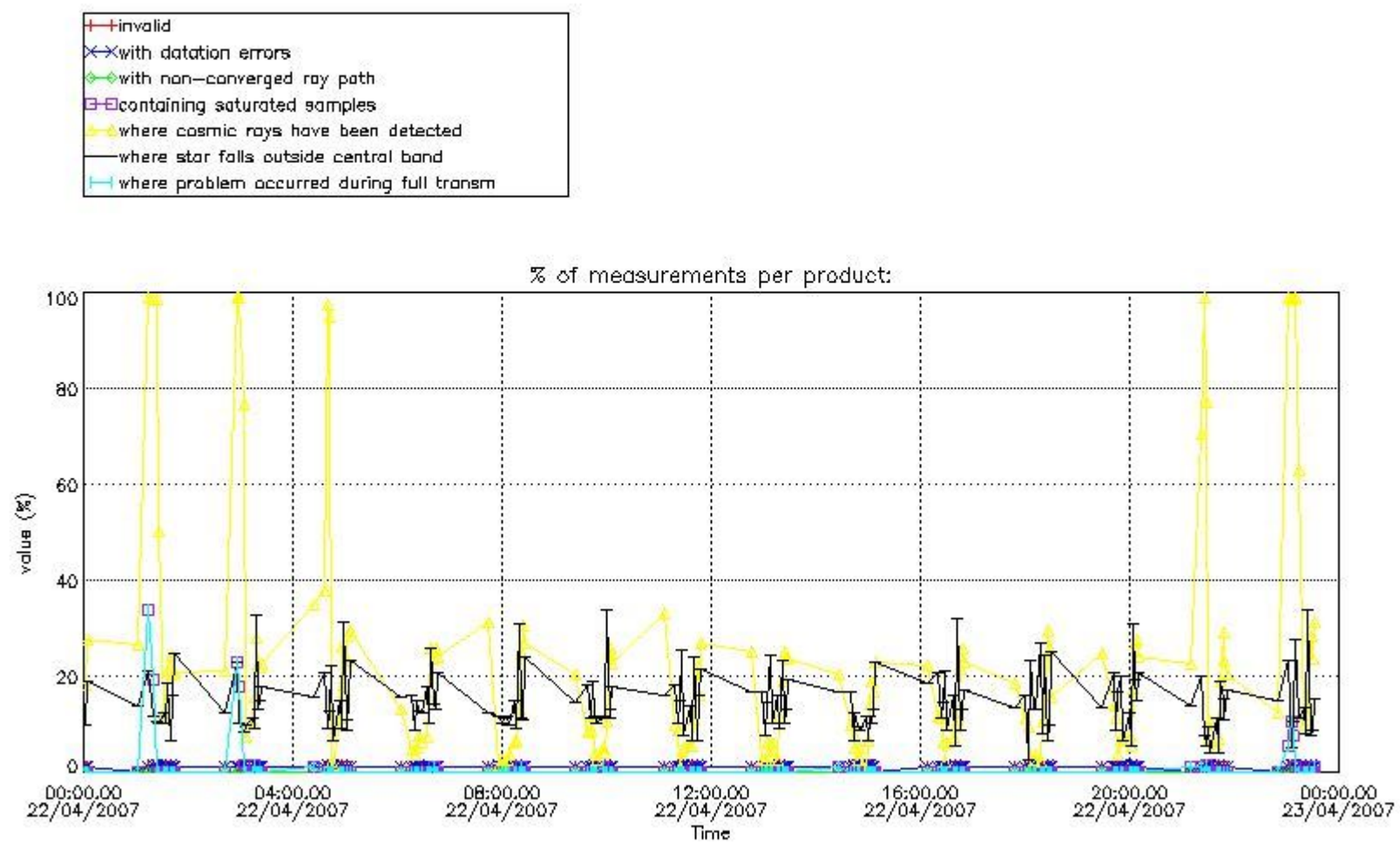


4. Level 1 quality information per product

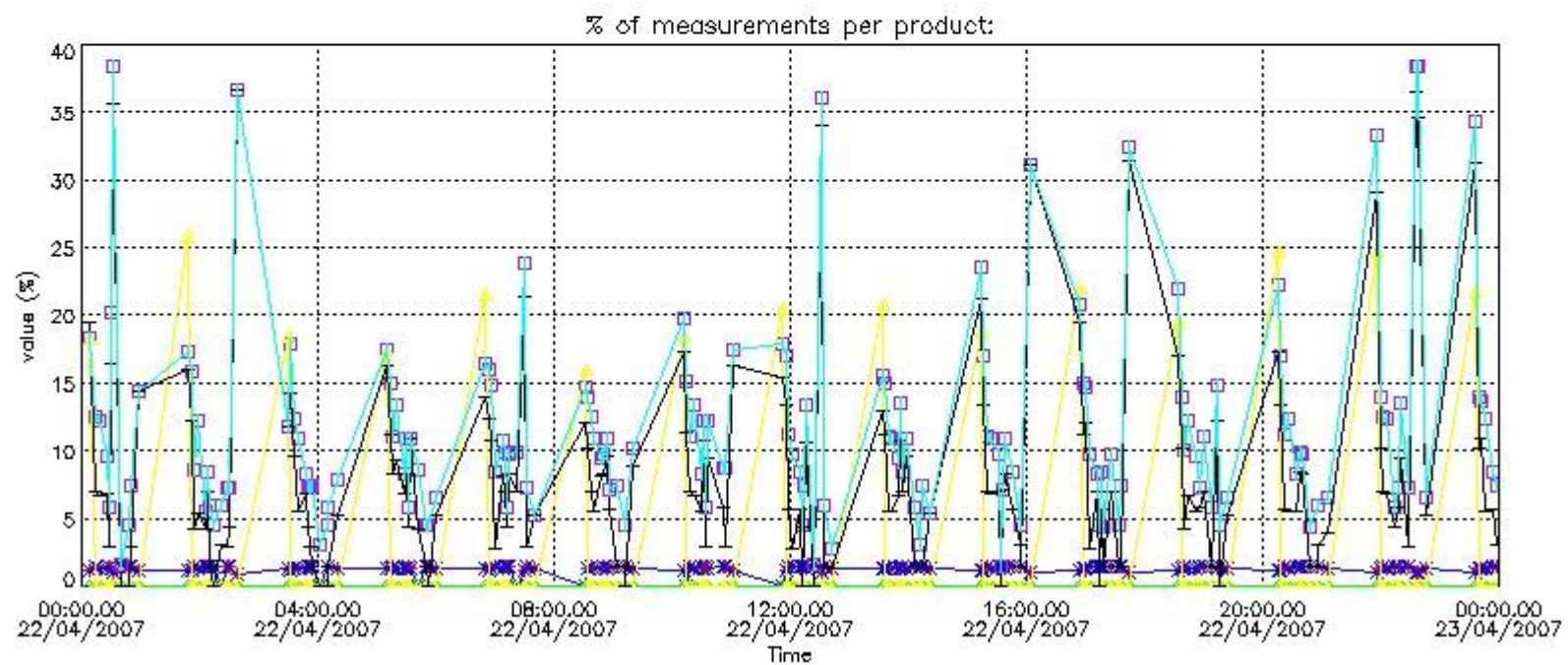
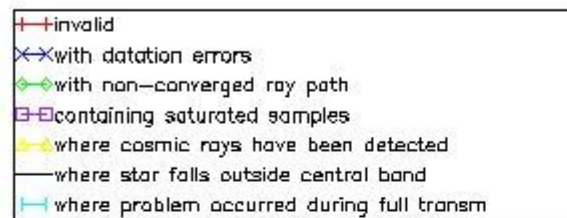
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



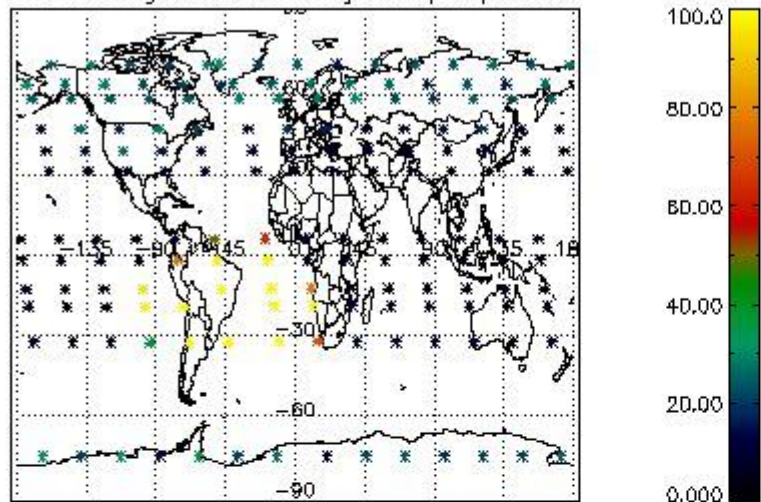
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



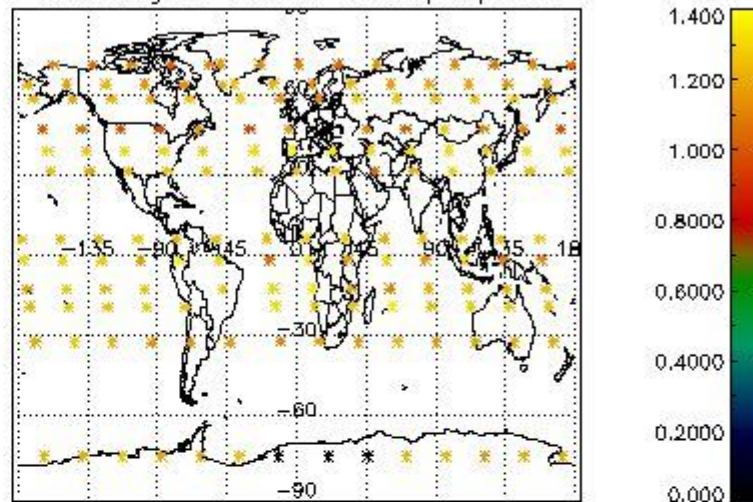
4.2 Plot quality information per product coming from level 1b processing (world map)

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

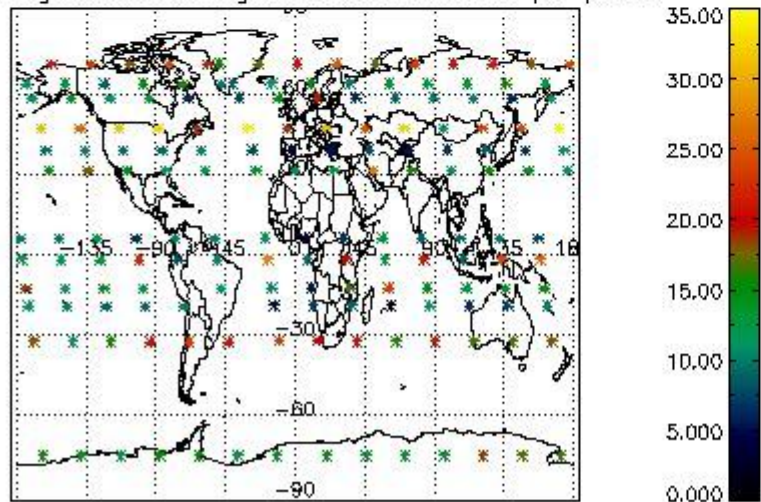
Percentage of cosmic ray hits per profile



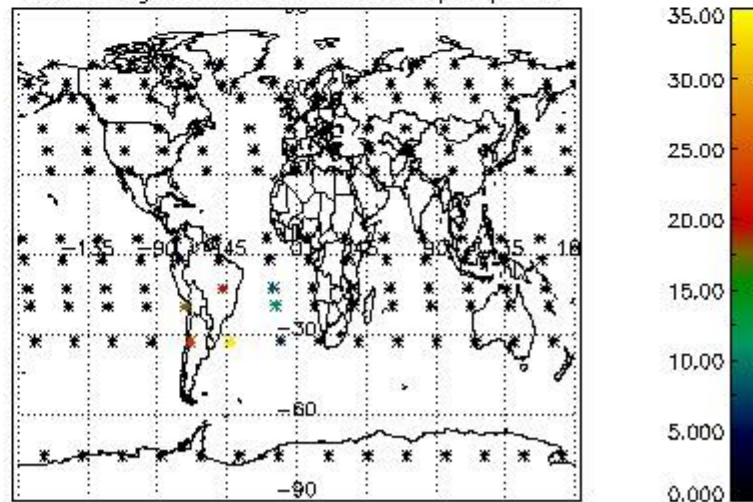
Percentage of datation errors per profile



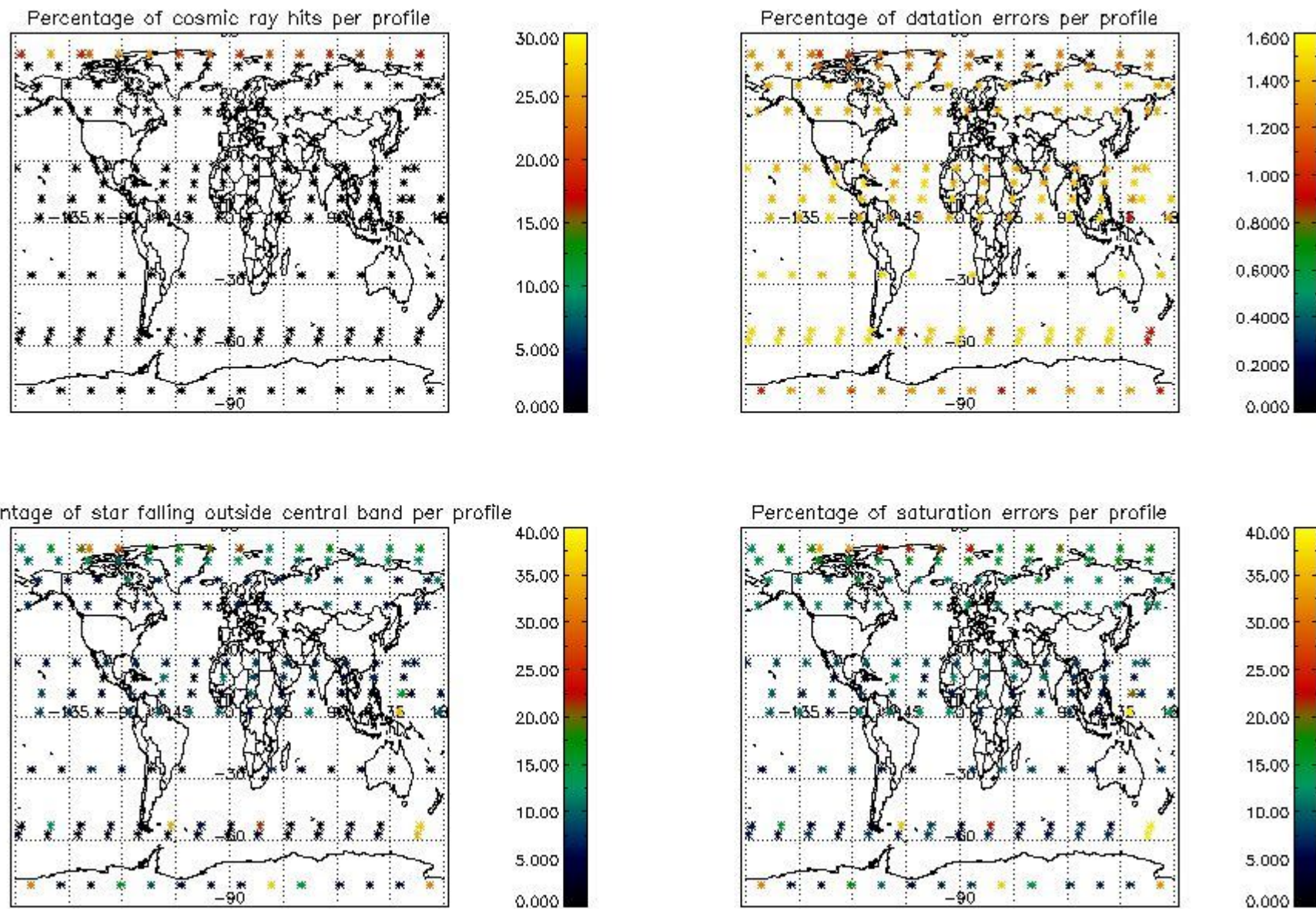
Percentage of star falling outside central band per profile



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

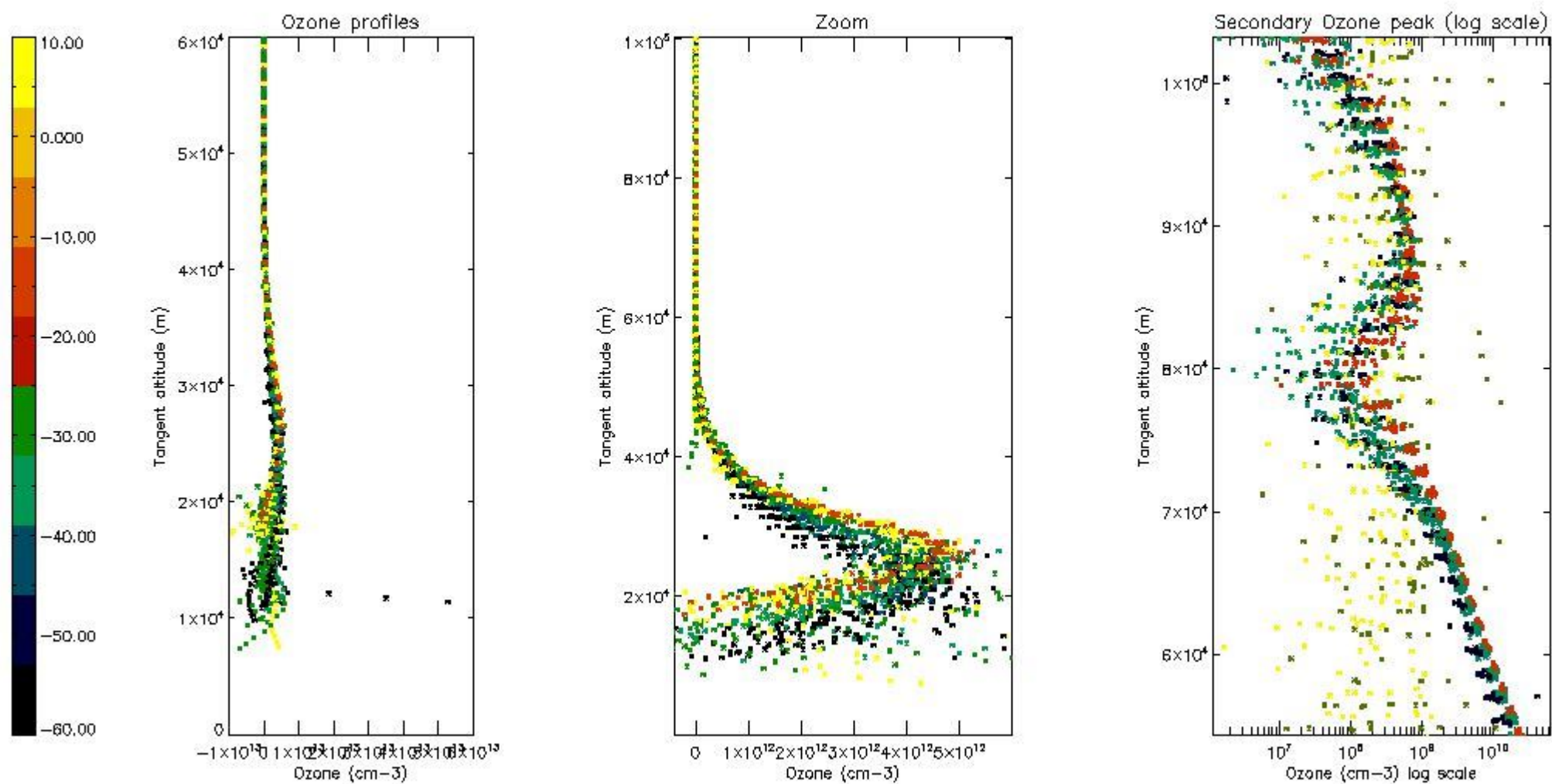
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	26
STD < 20	13

STD < 10	10
STD < 5	6

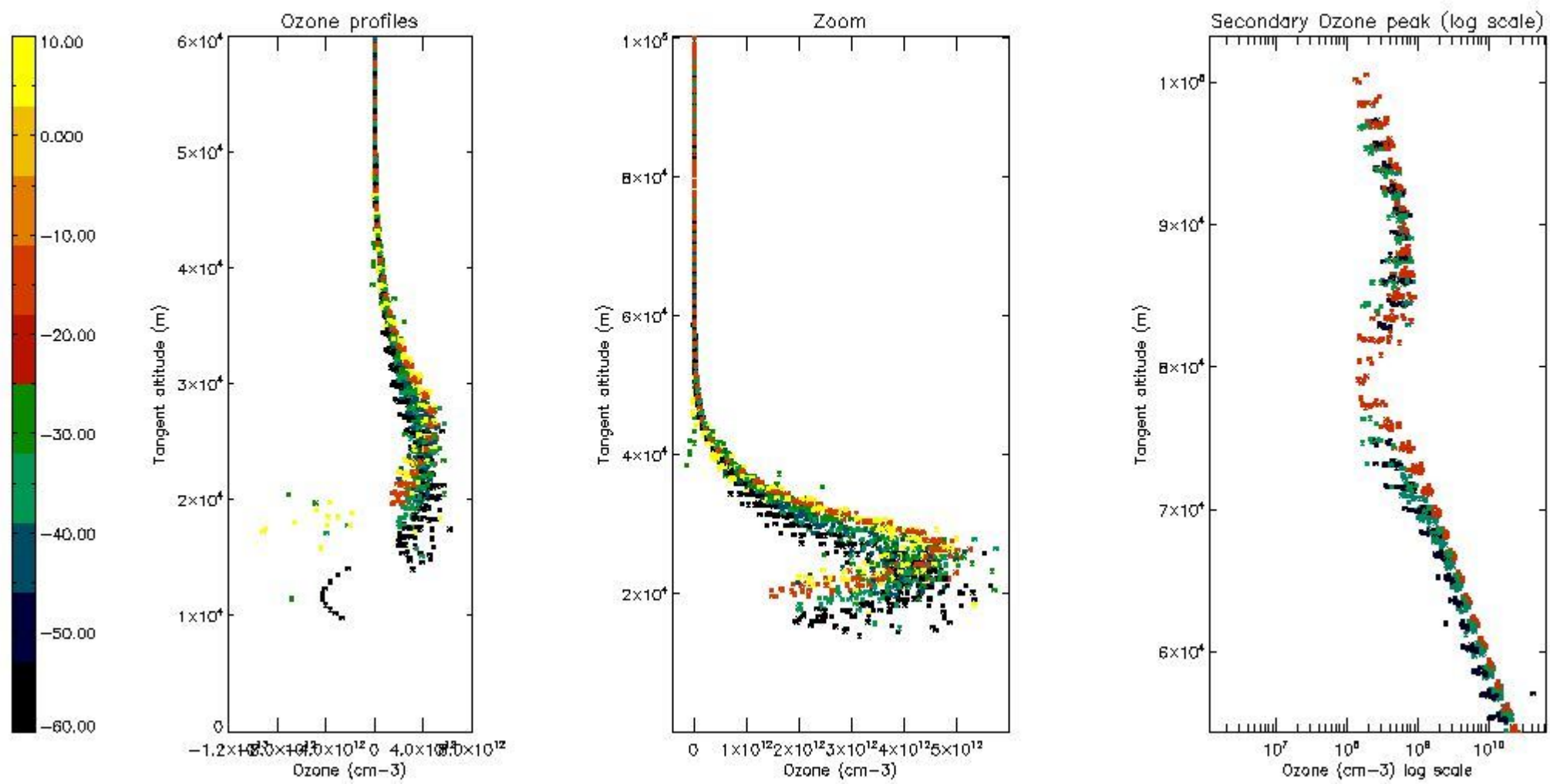
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



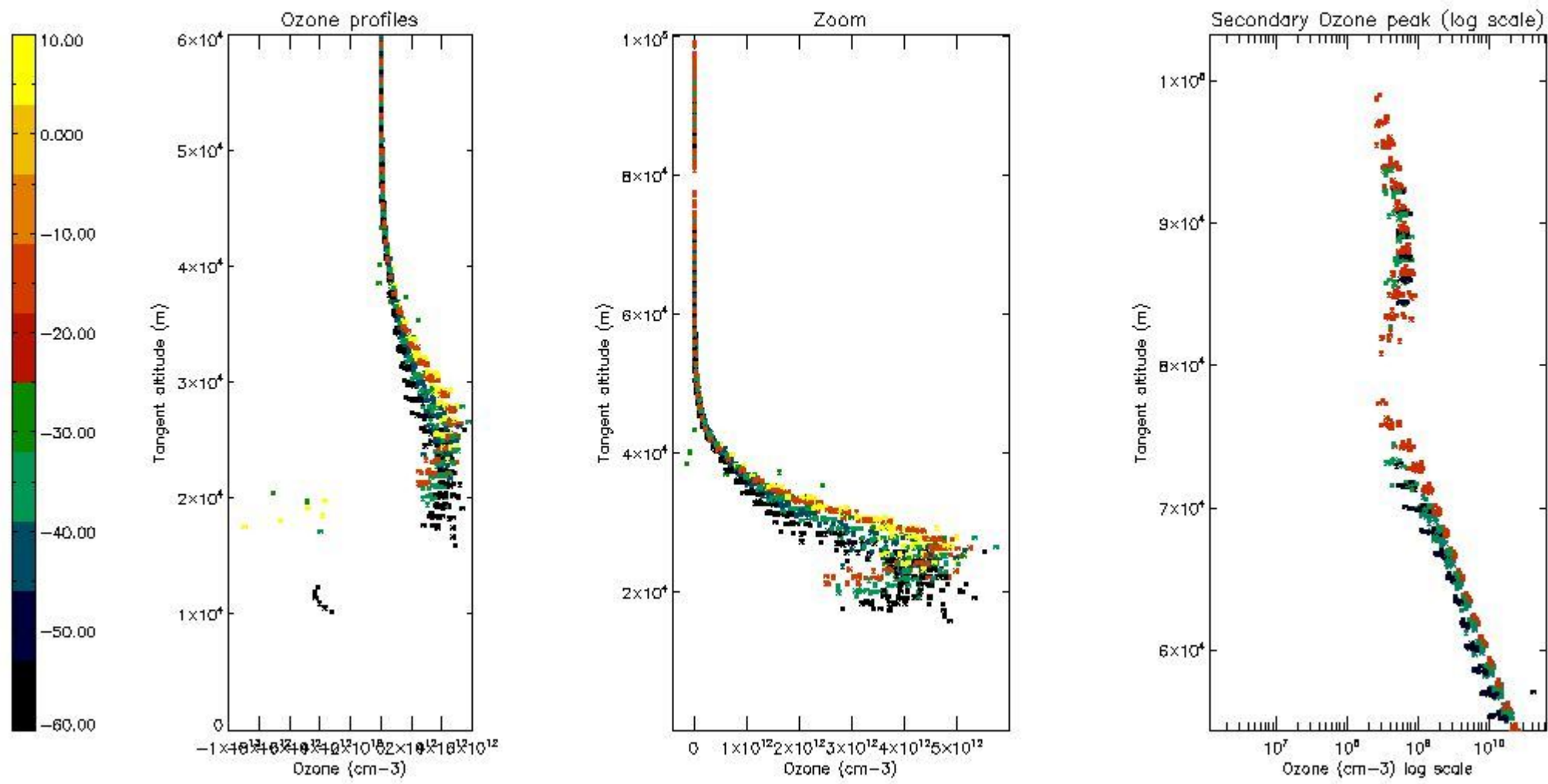
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



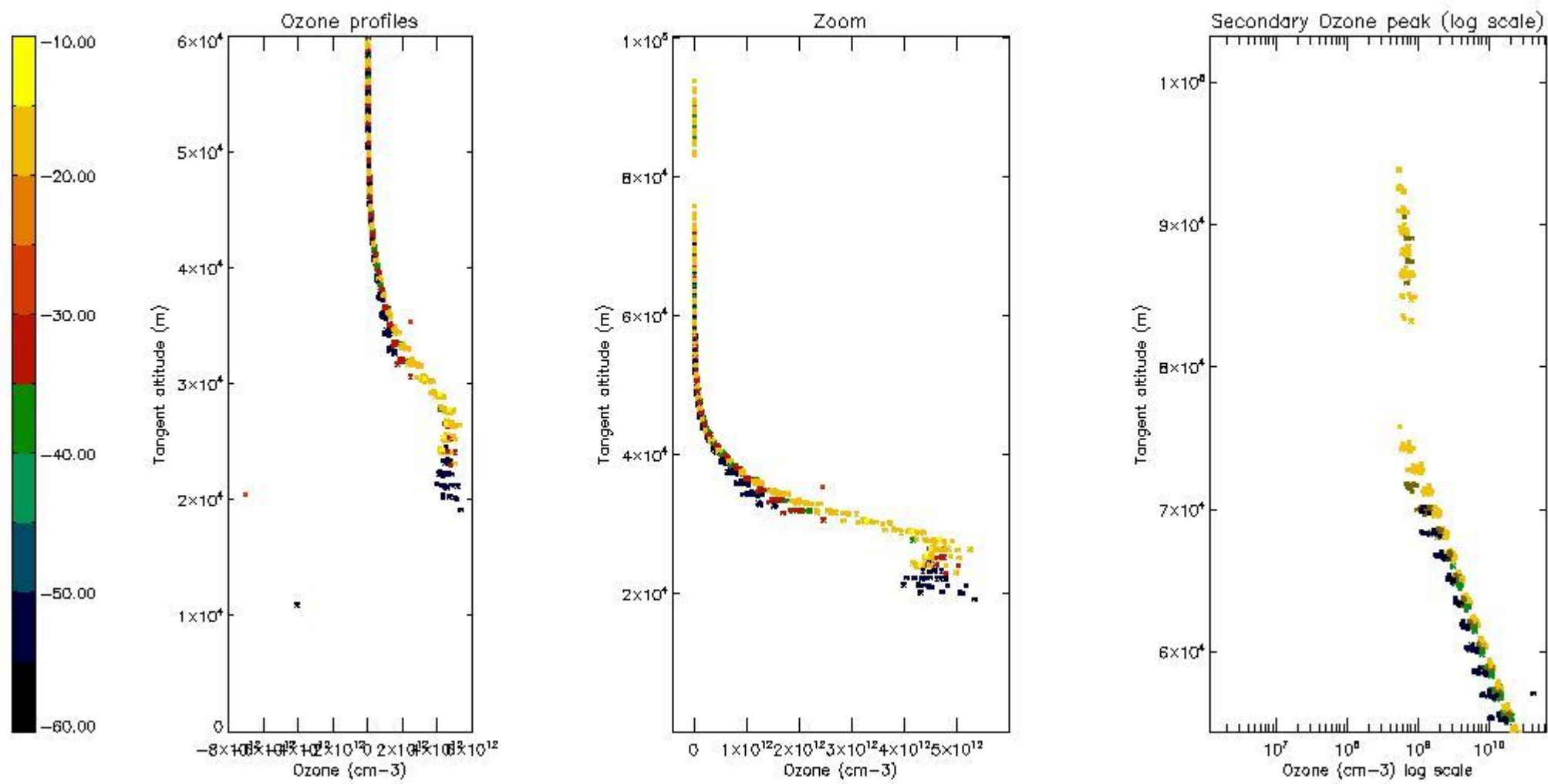
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



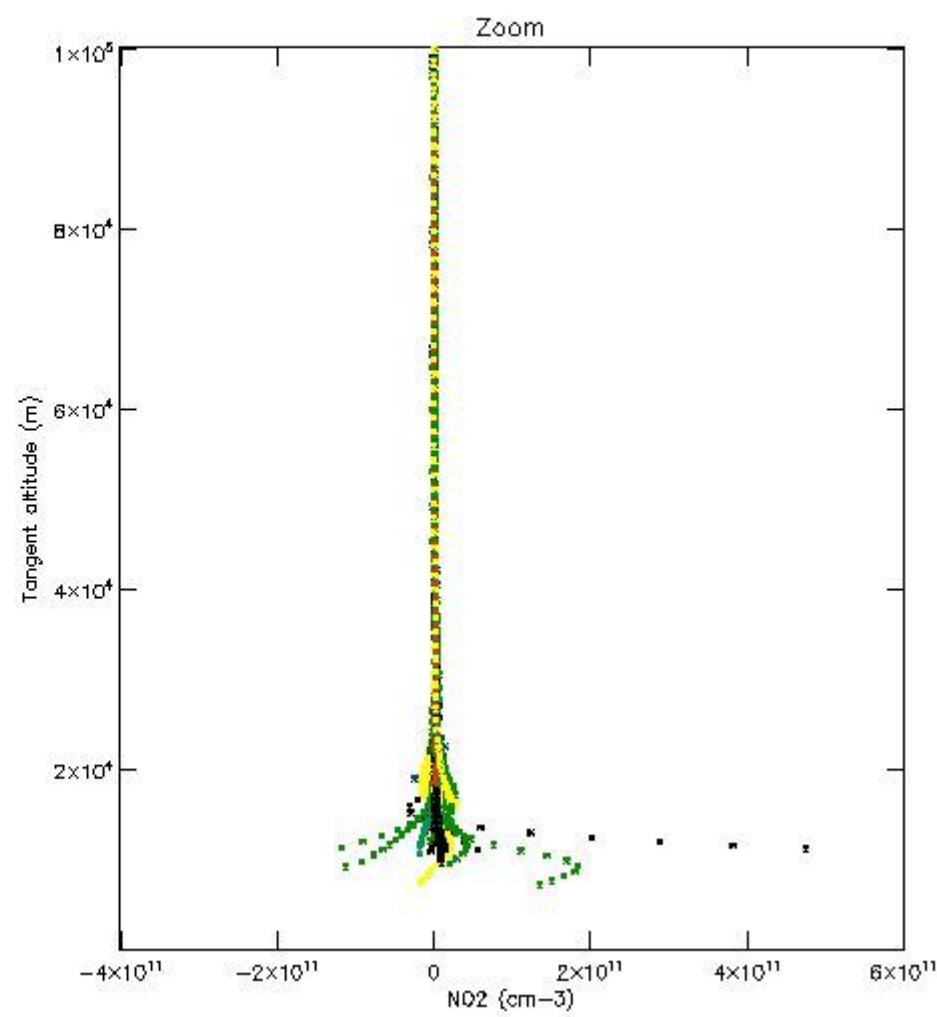
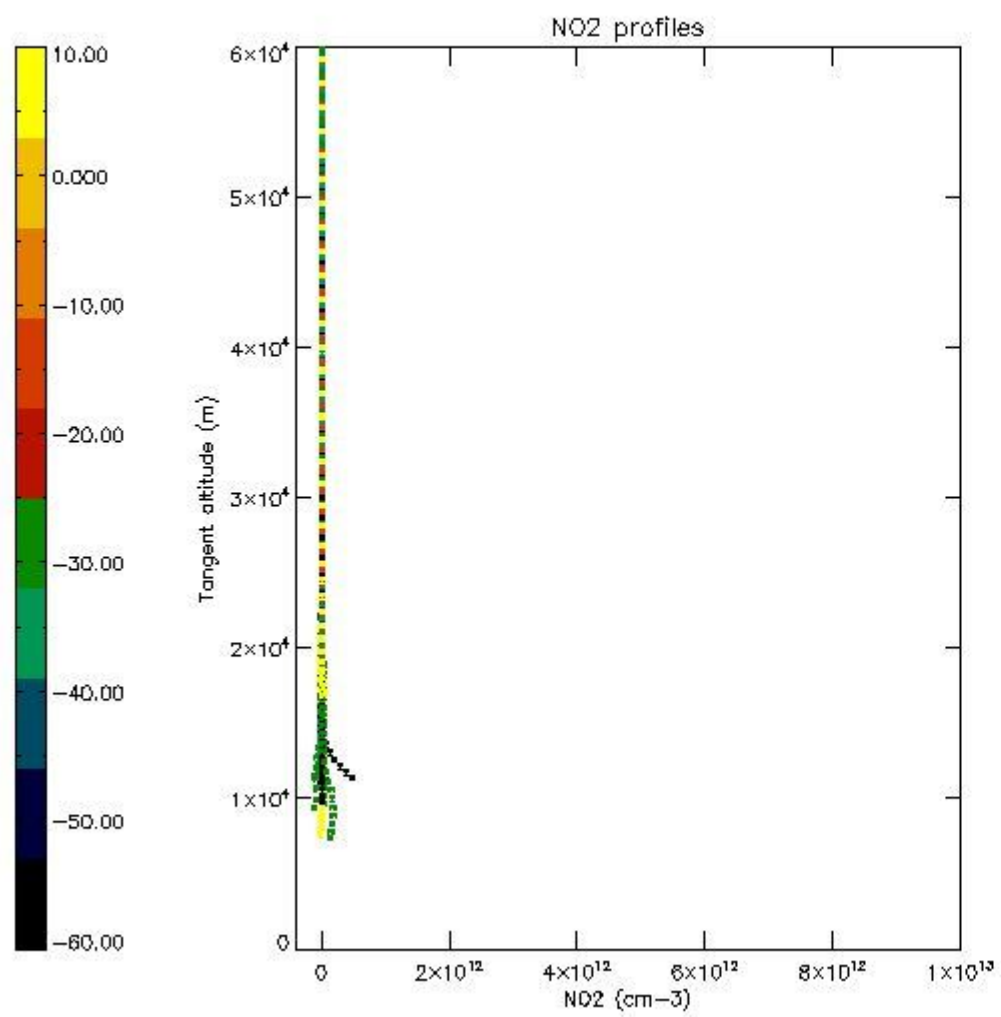
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



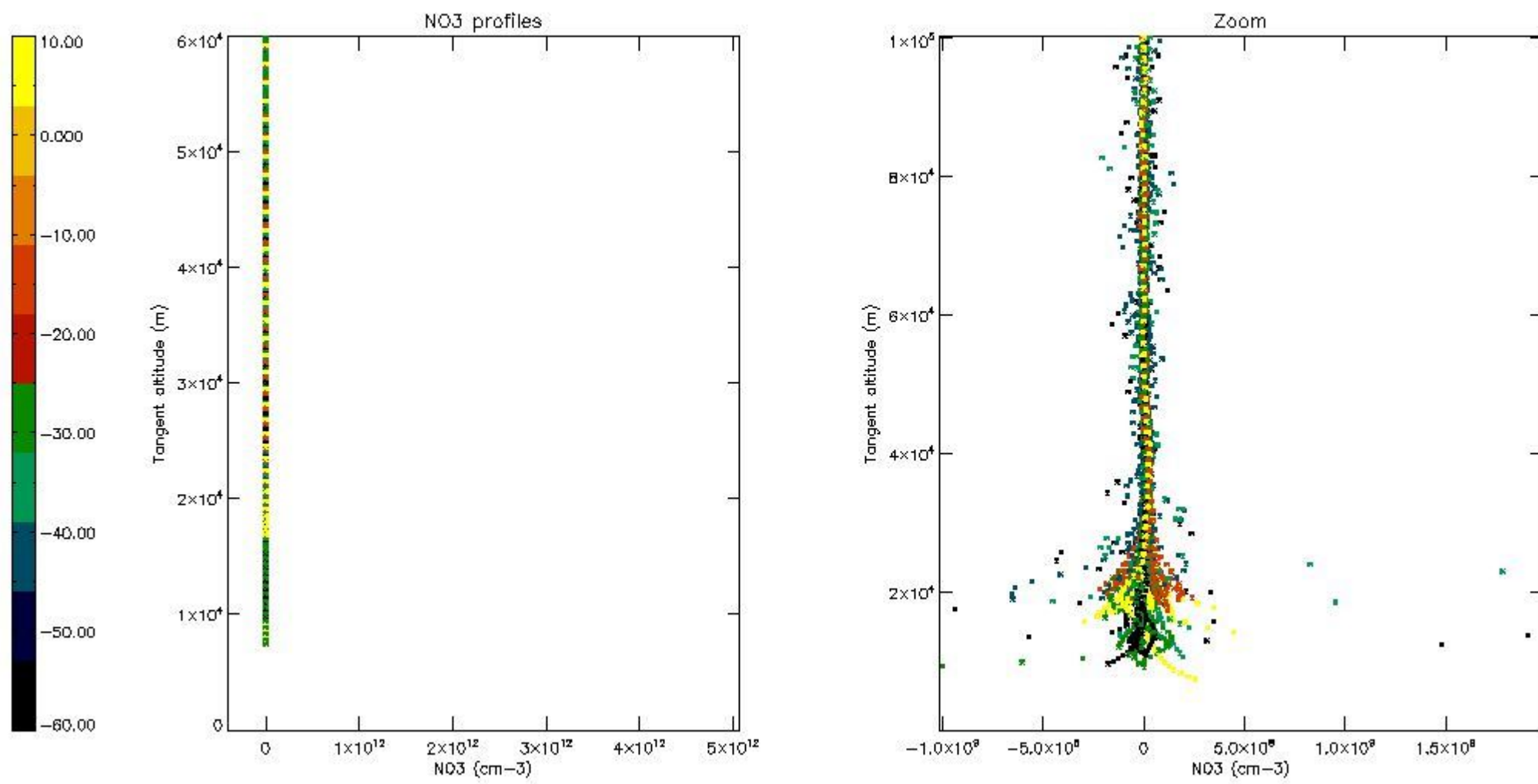
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



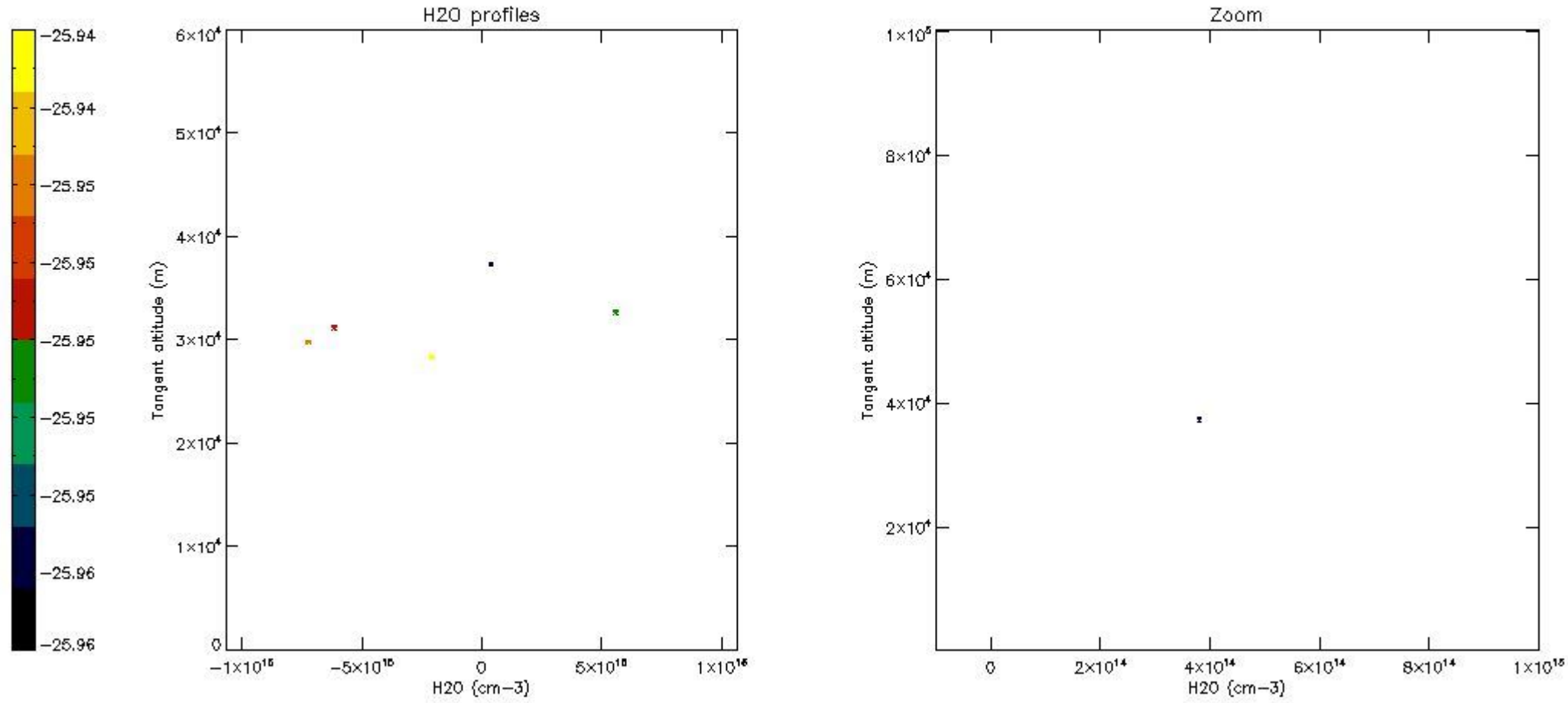
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

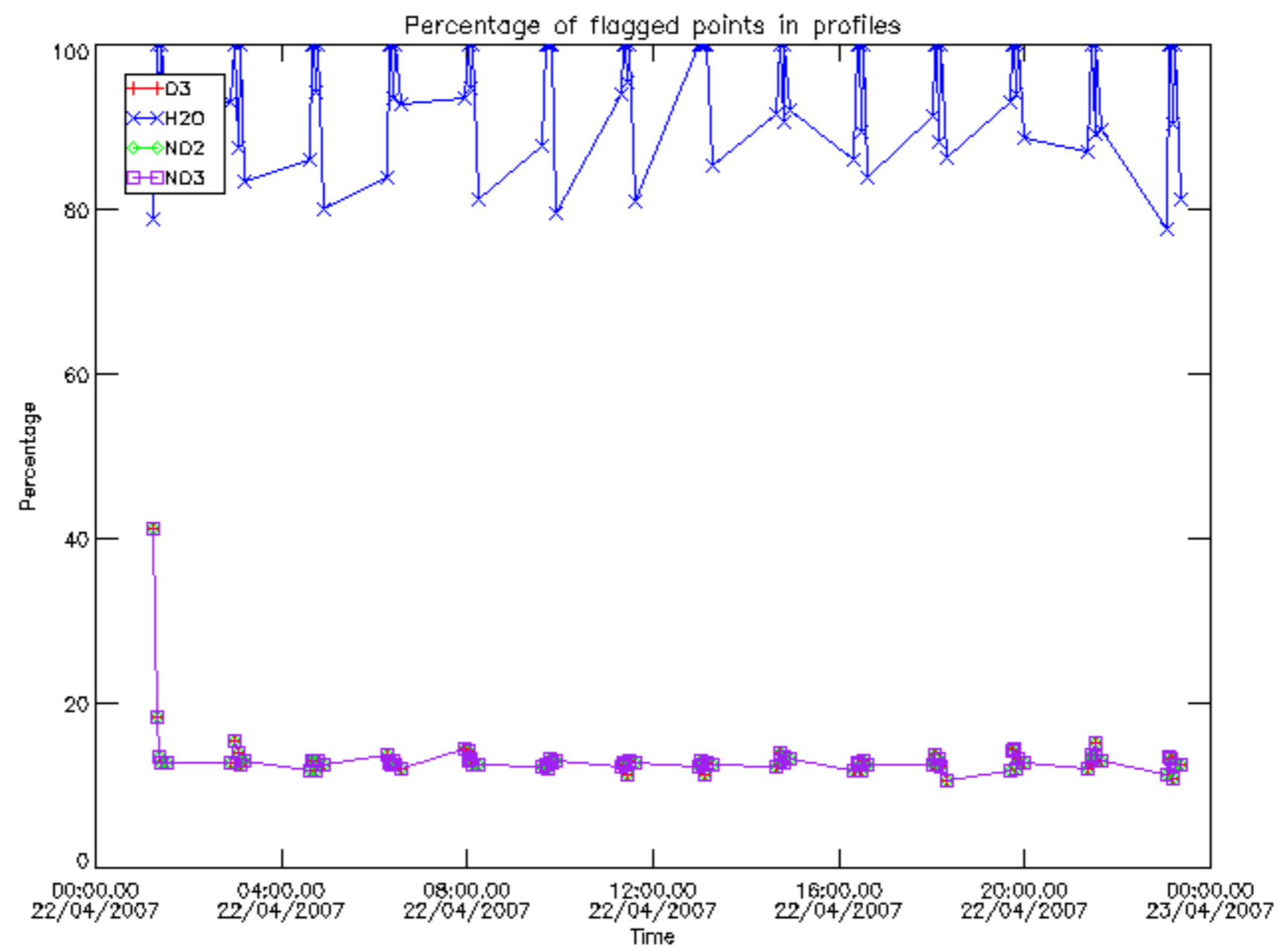
The colorbar represents the latitude.



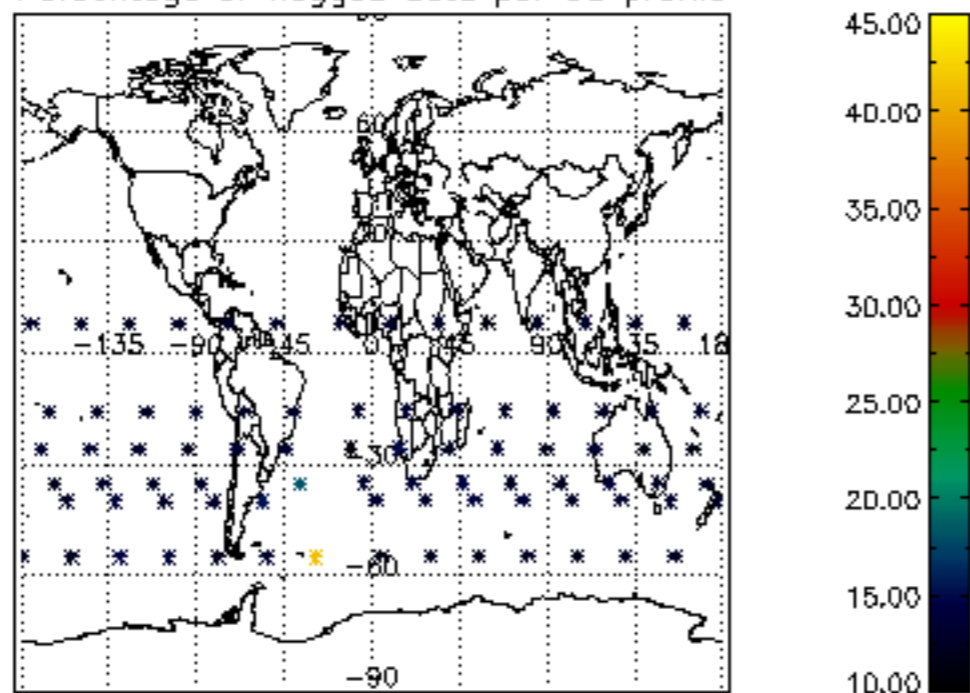
6. Auxiliary Data Files used for the production reported in section 2

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

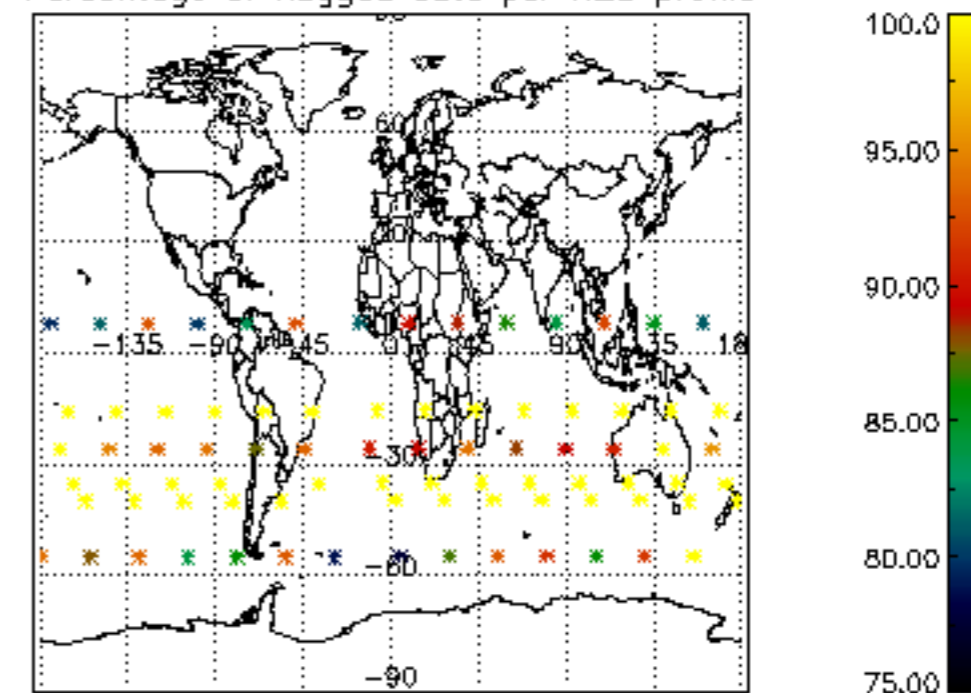
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	22-APR-2007 00:01:05
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	22-APR-2007 00:01:05
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	22-APR-2007 00:01:05



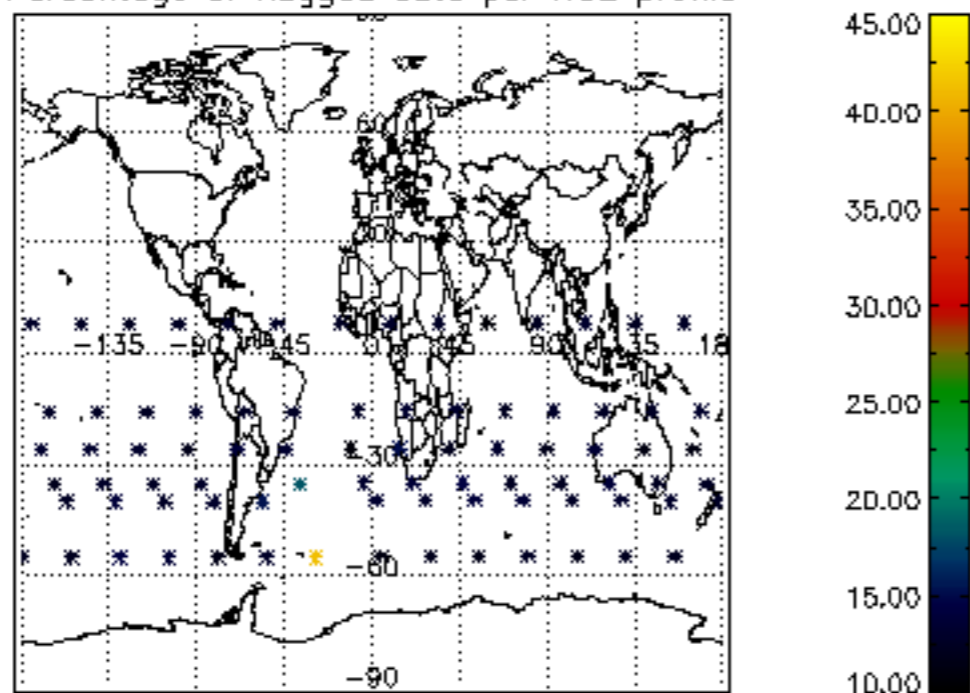
Percentage of flagged data per D3 profile



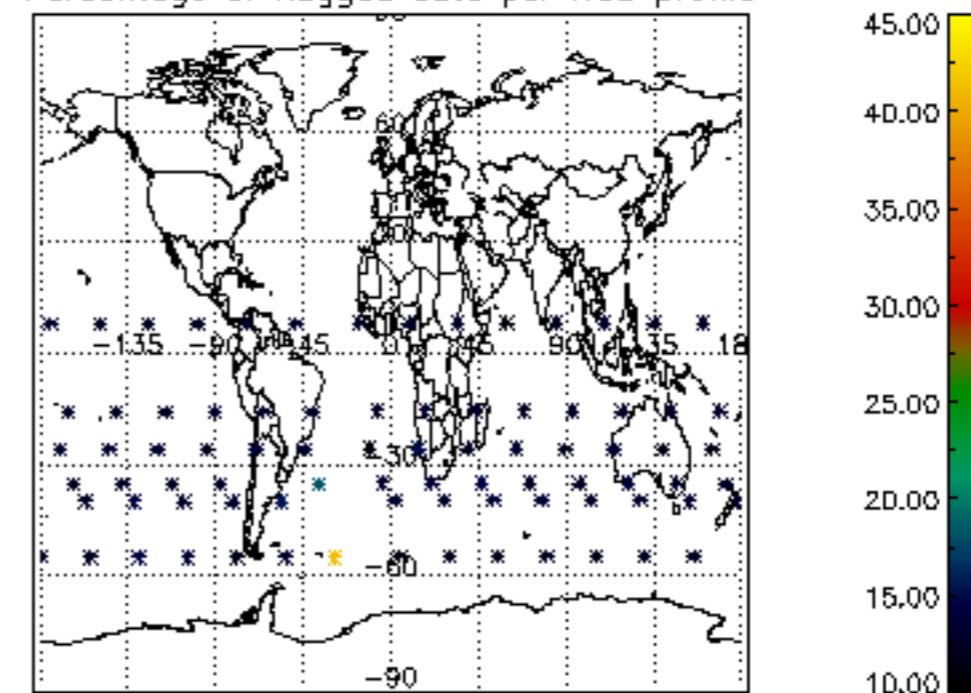
Percentage of flagged data per H2O profile

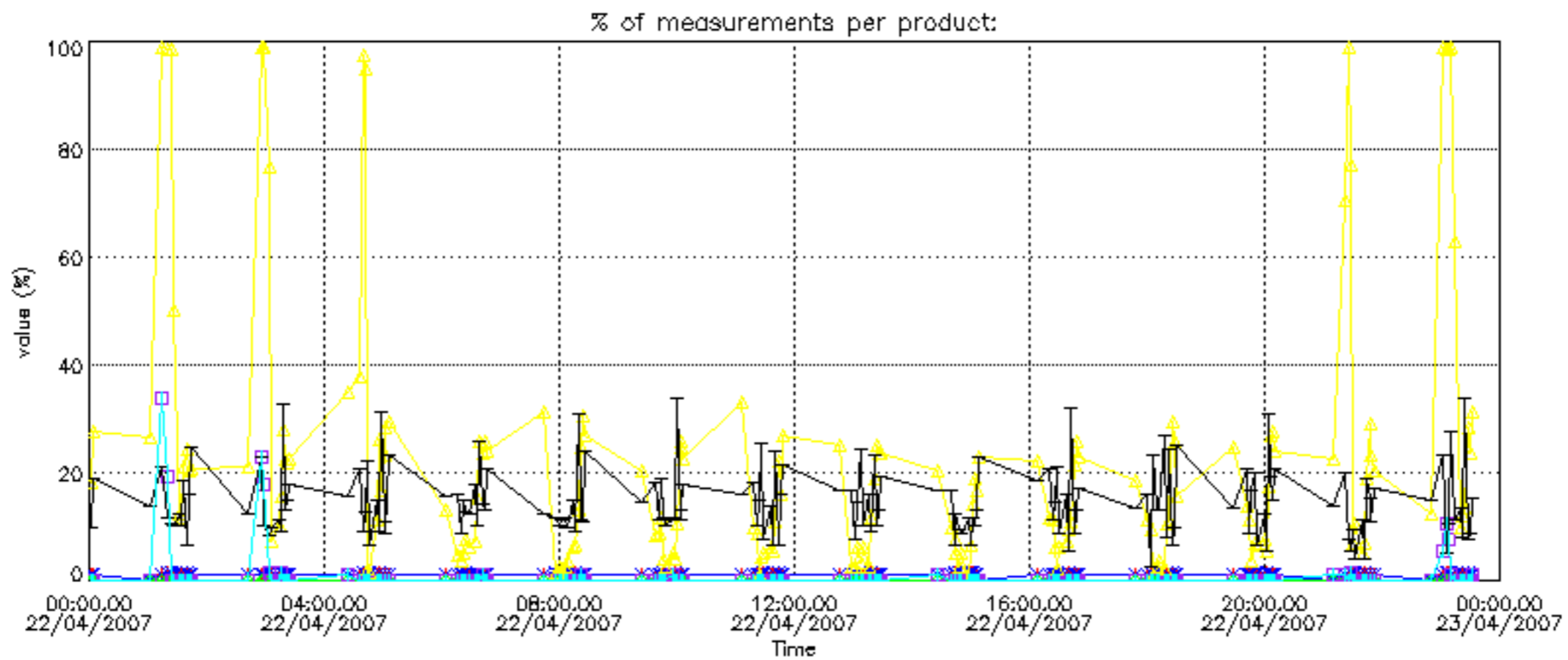


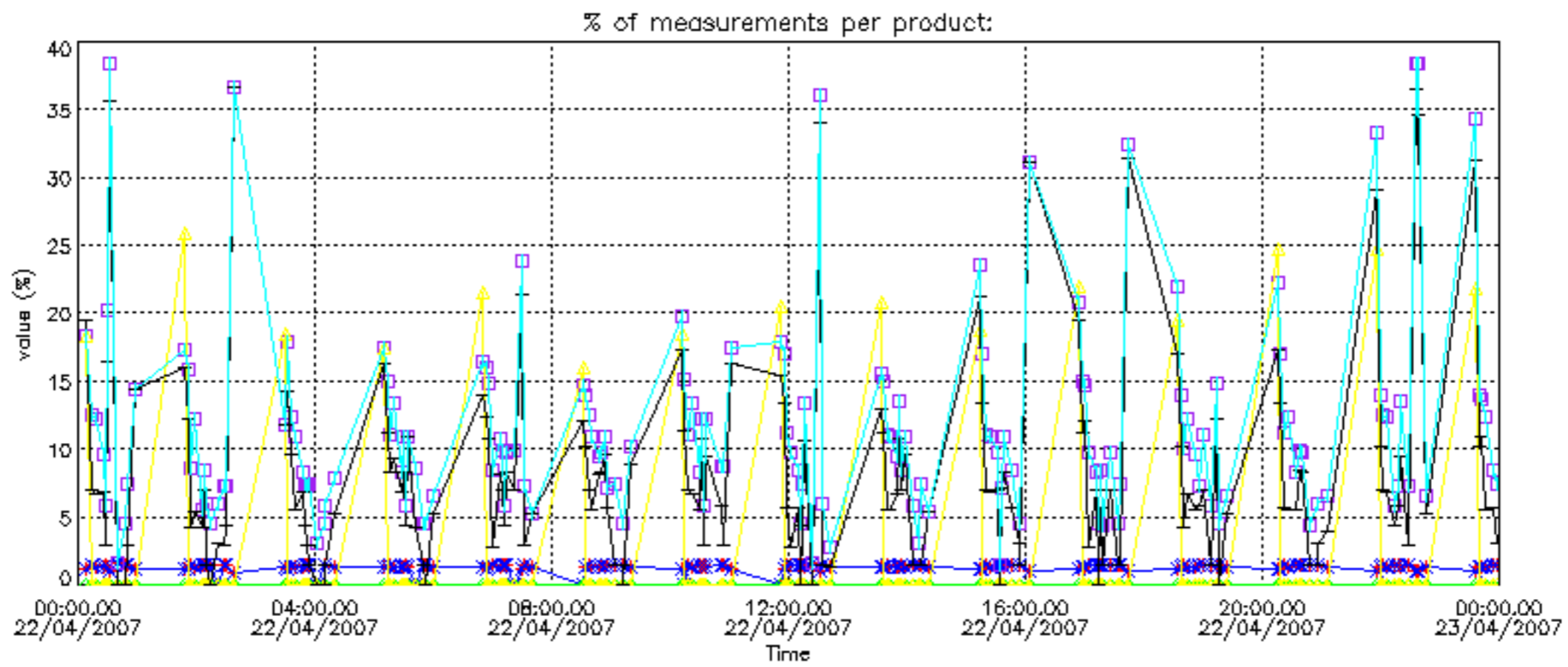
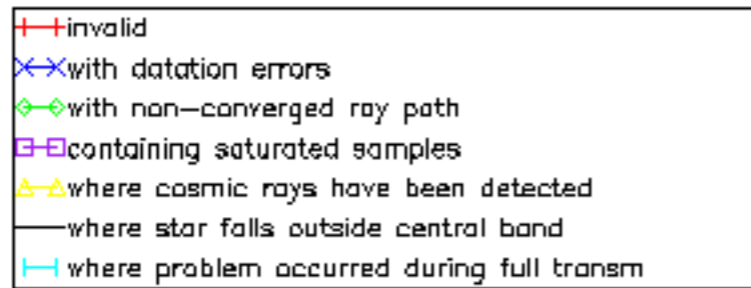
Percentage of flagged data per NO2 profile



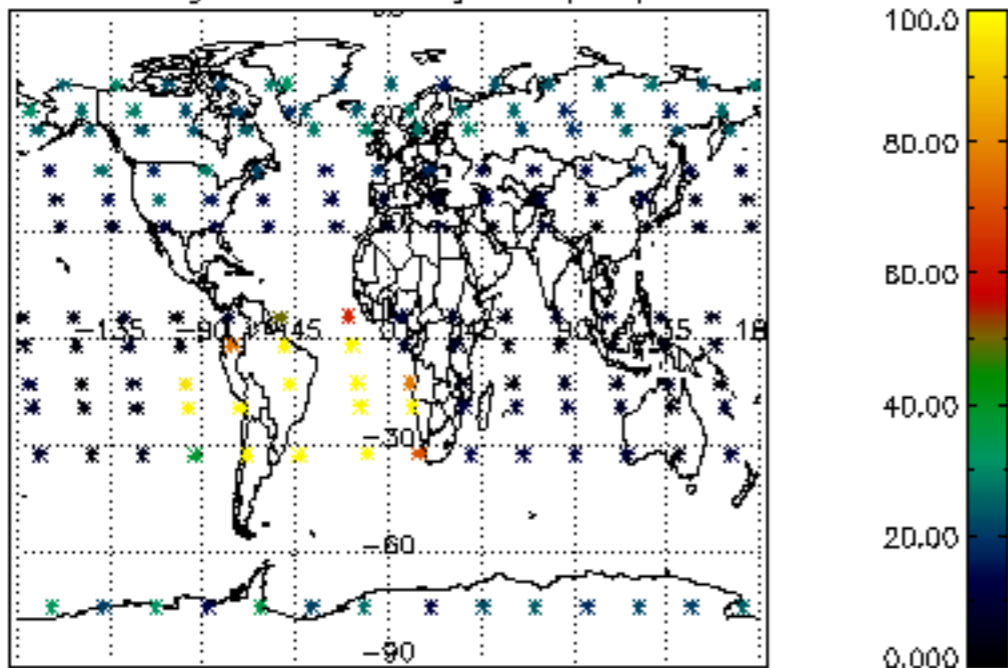
Percentage of flagged data per NO3 profile



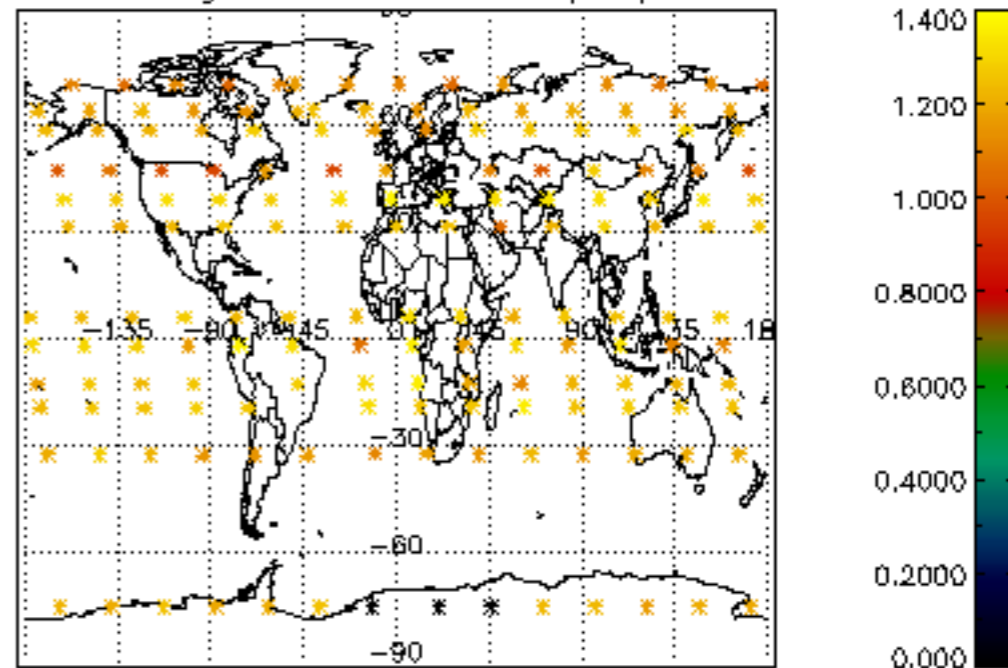




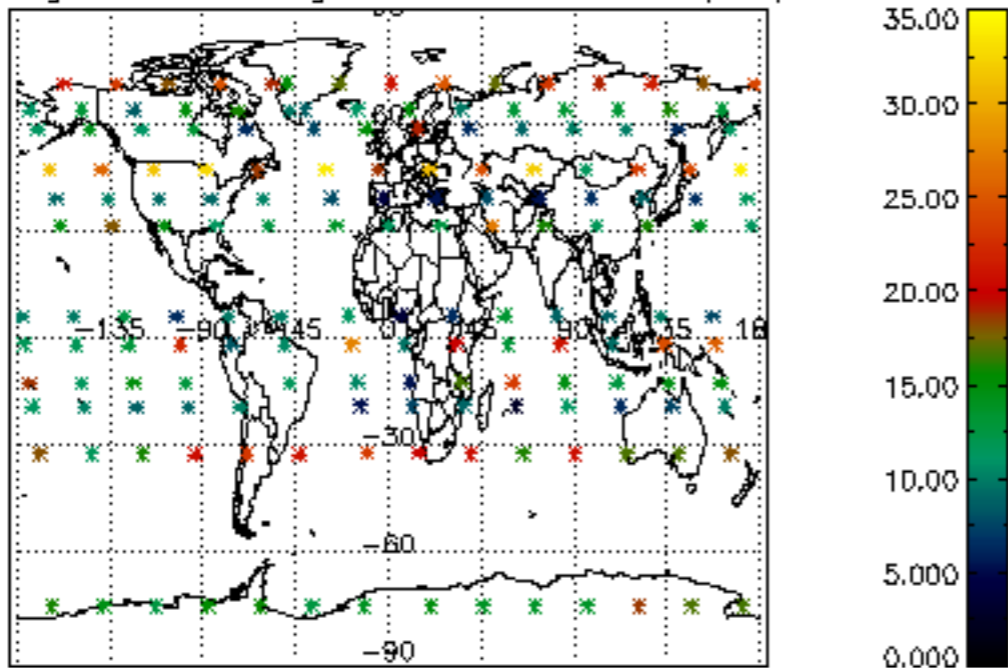
Percentage of cosmic ray hits per profile



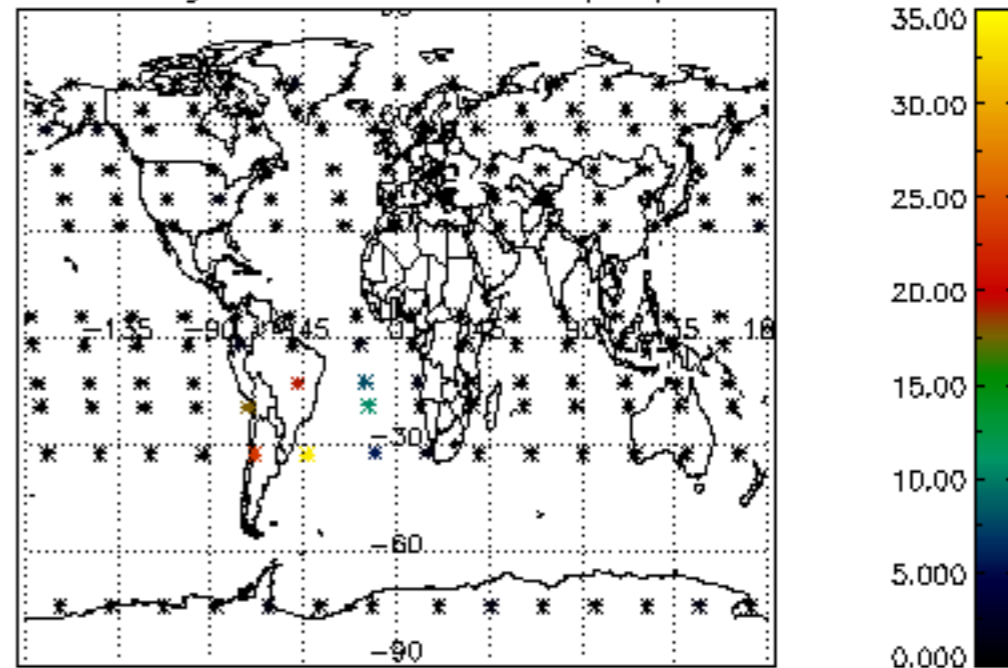
Percentage of datation errors per profile



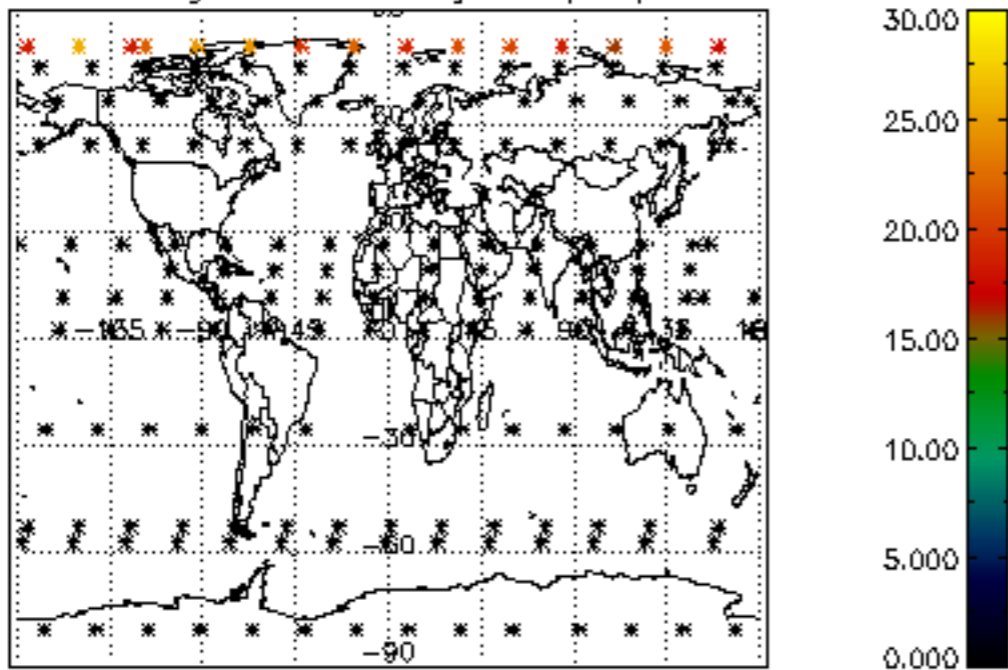
Percentage of star falling outside central band per profile



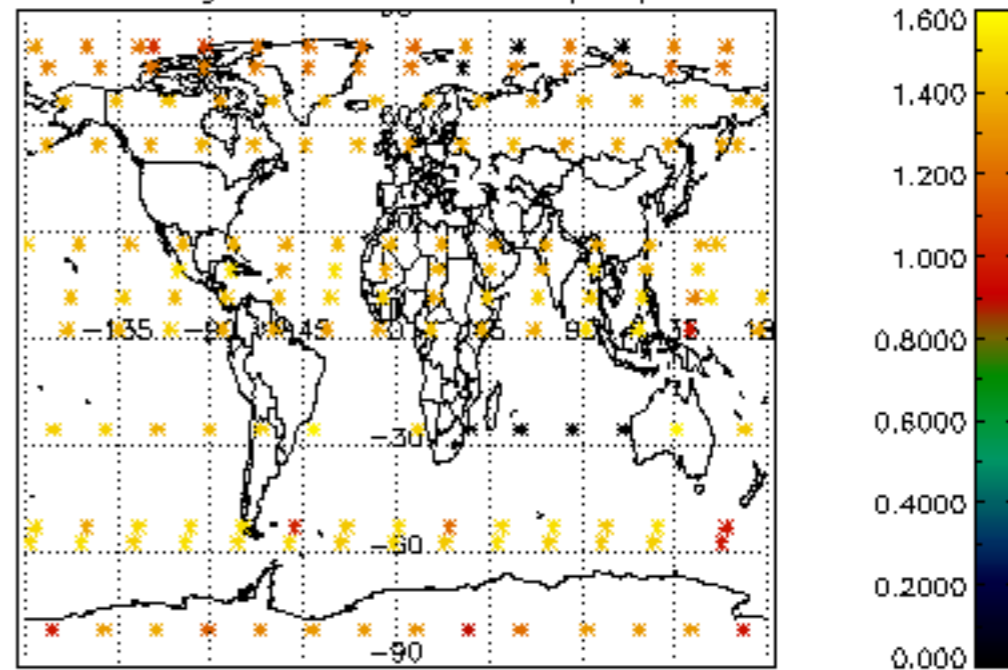
Percentage of saturation errors per profile



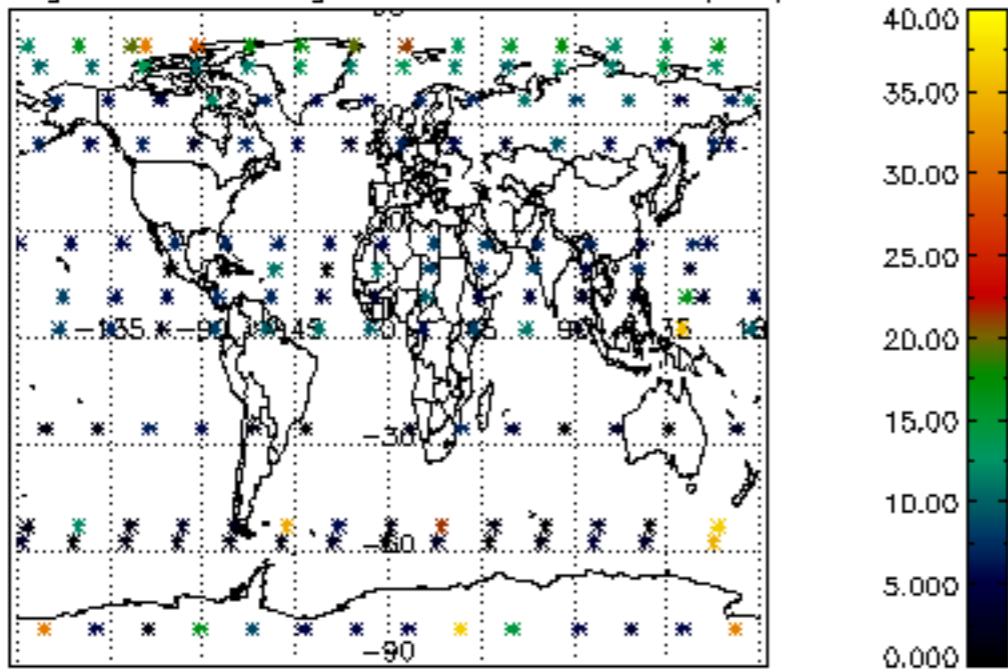
Percentage of cosmic ray hits per profile



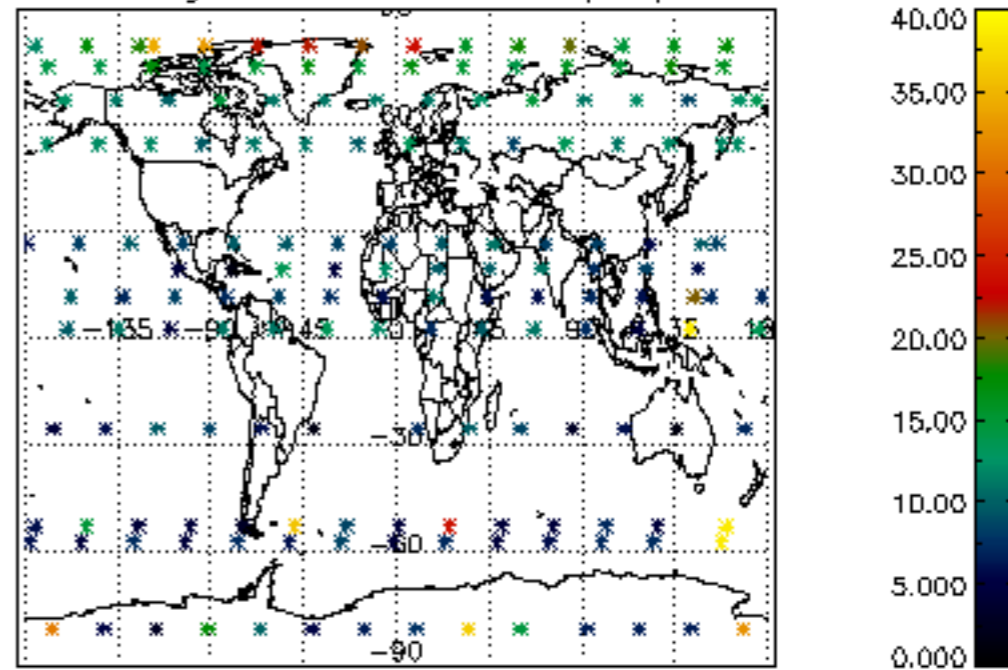
Percentage of datation errors per profile

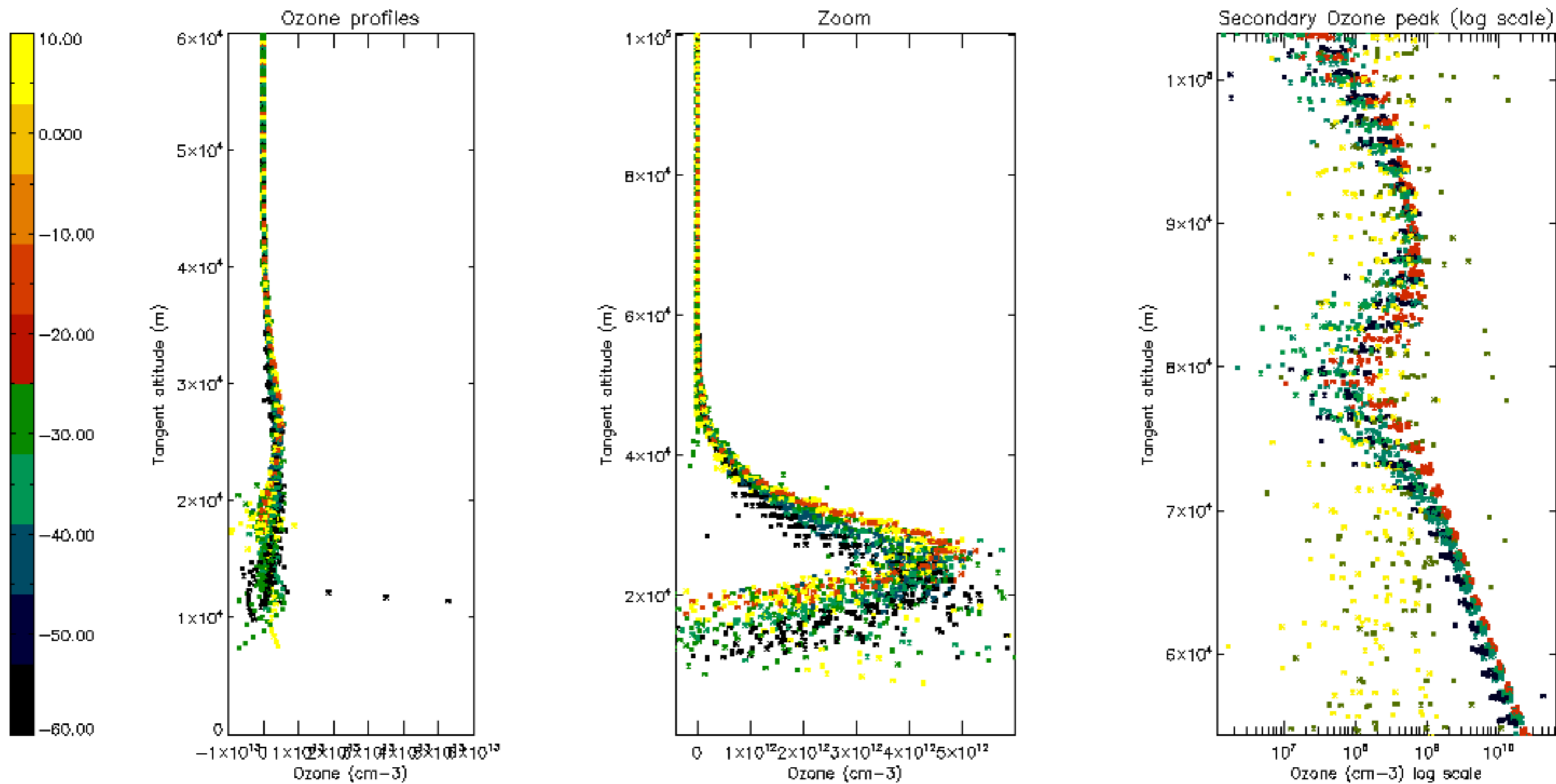


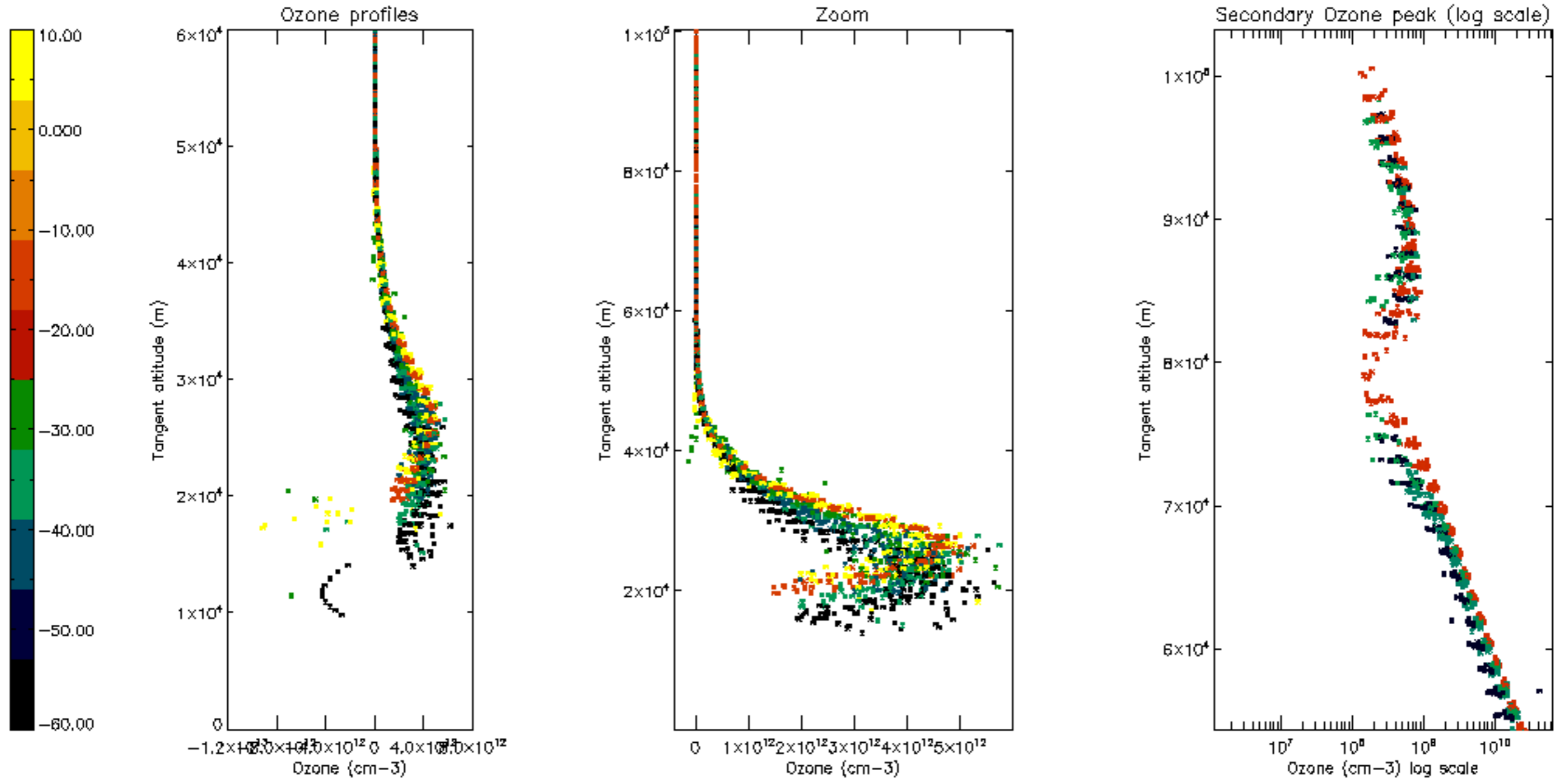
Percentage of star falling outside central band per profile

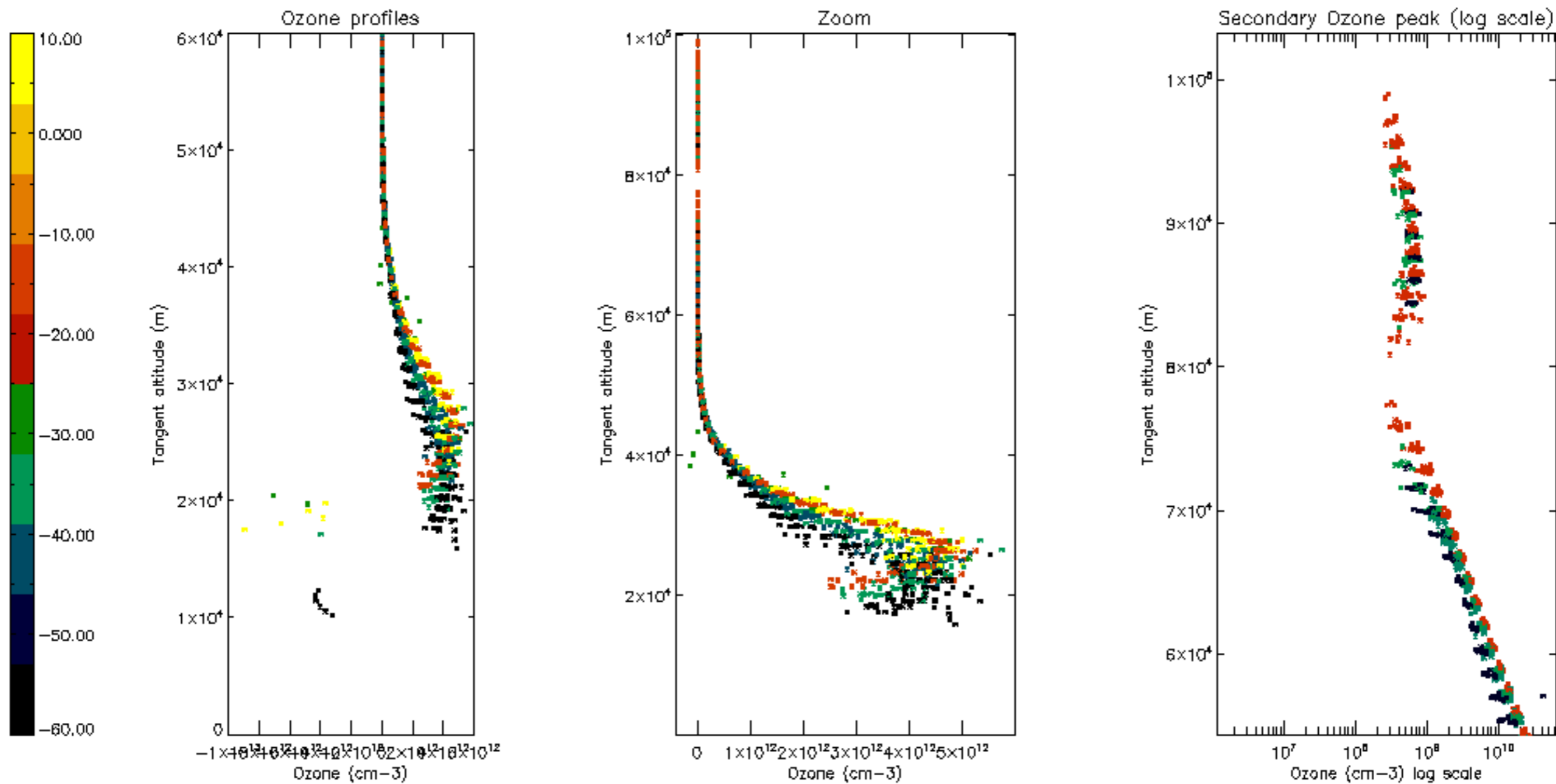


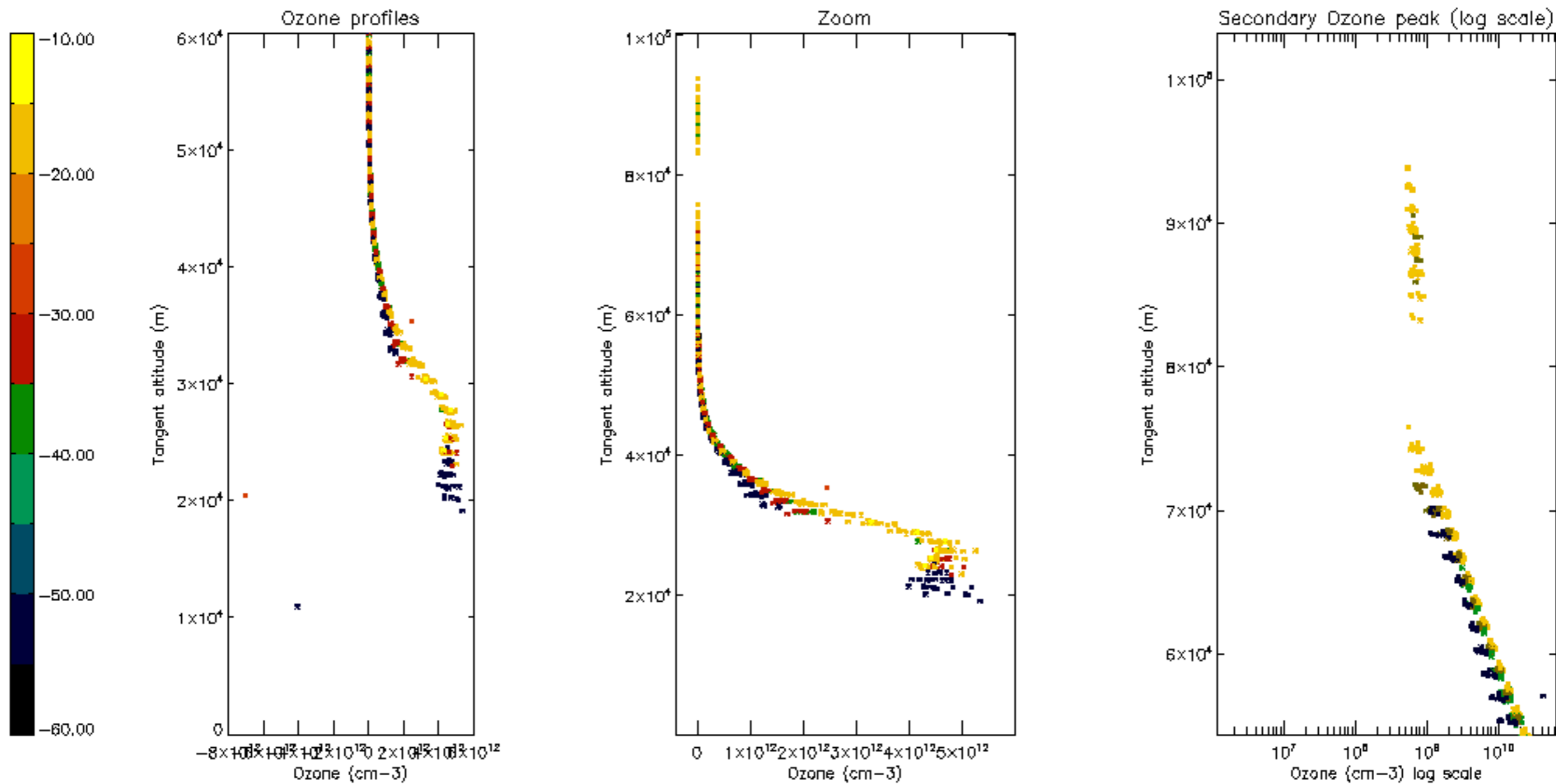
Percentage of saturation errors per profile

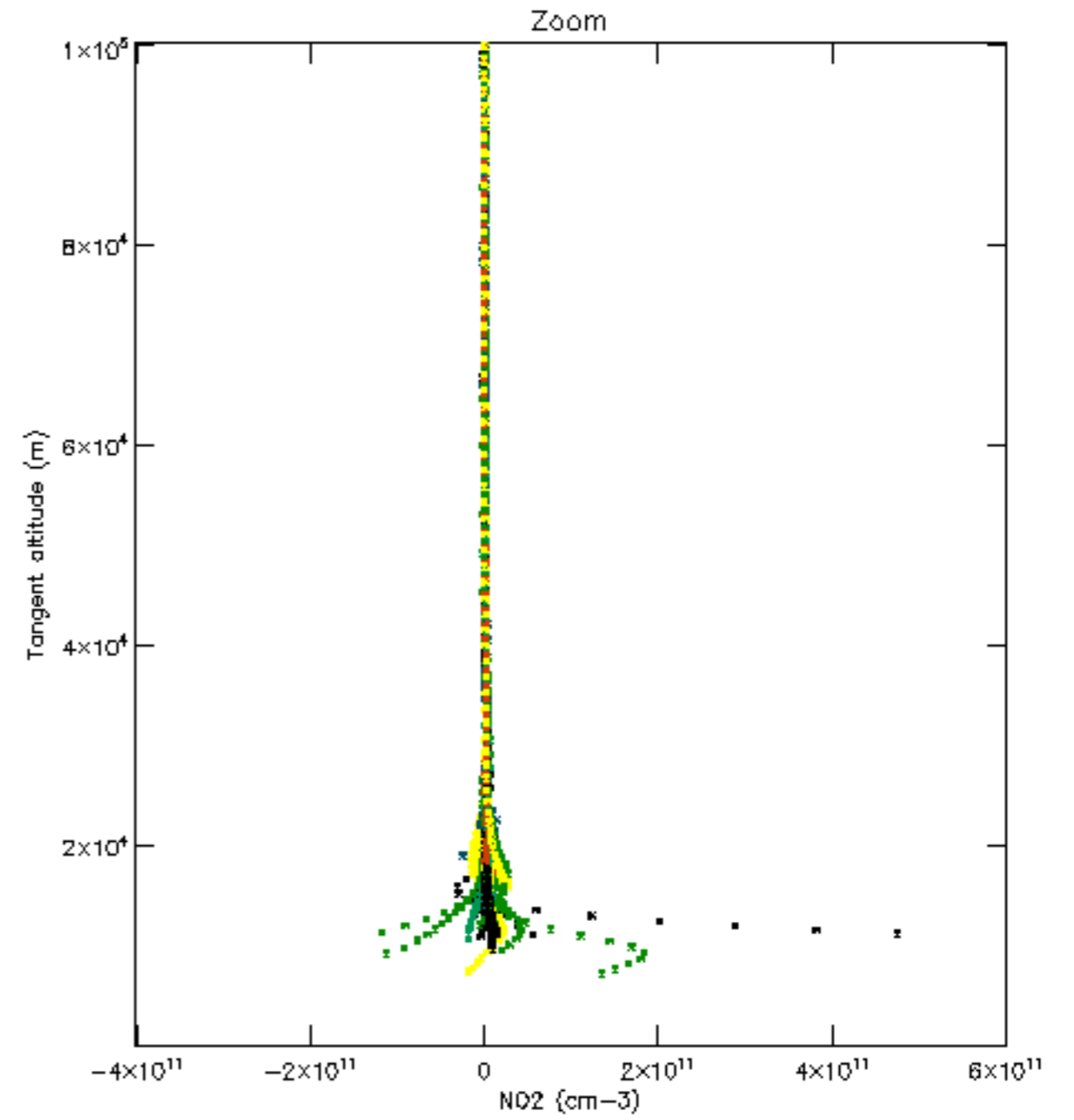
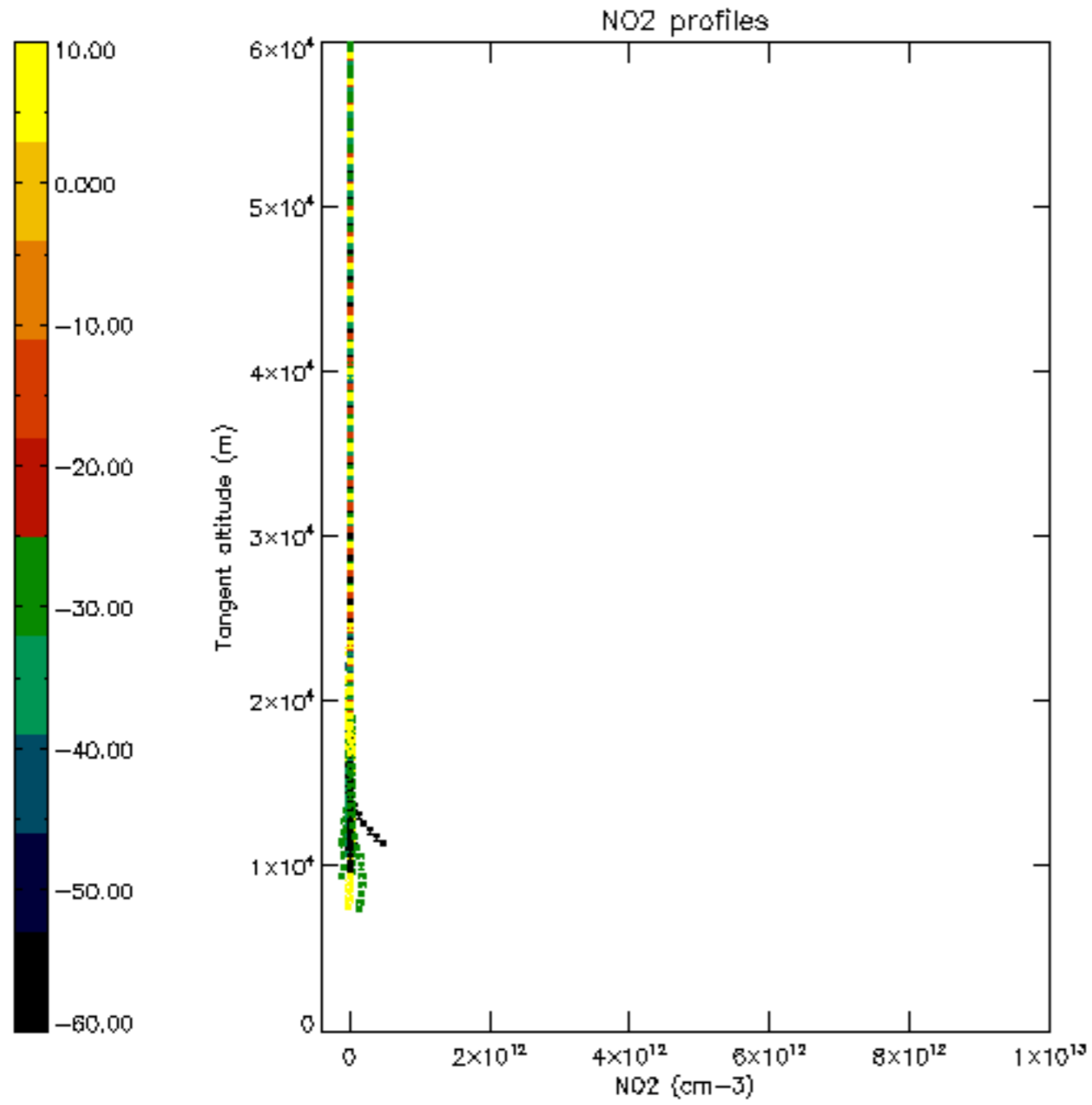


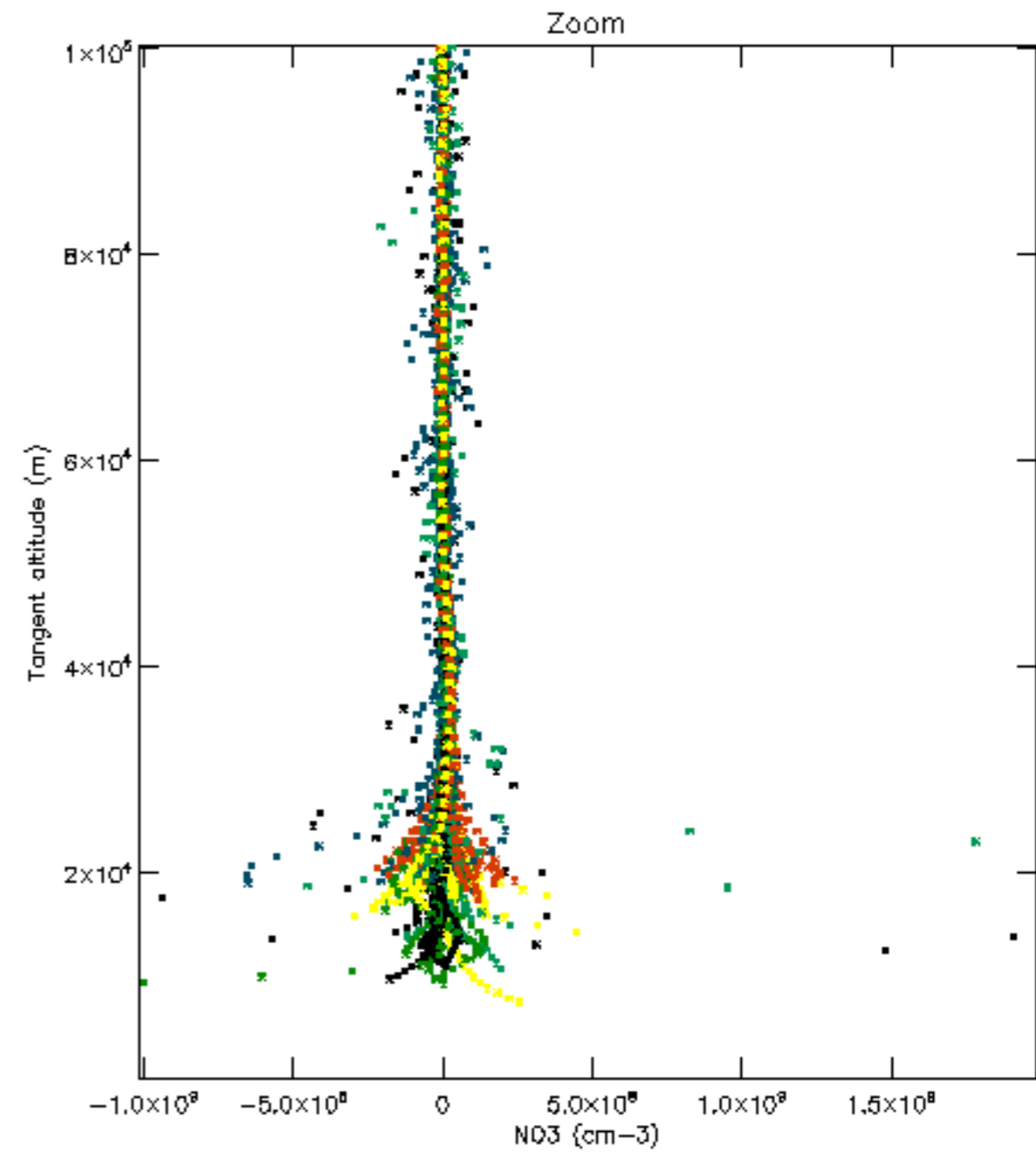
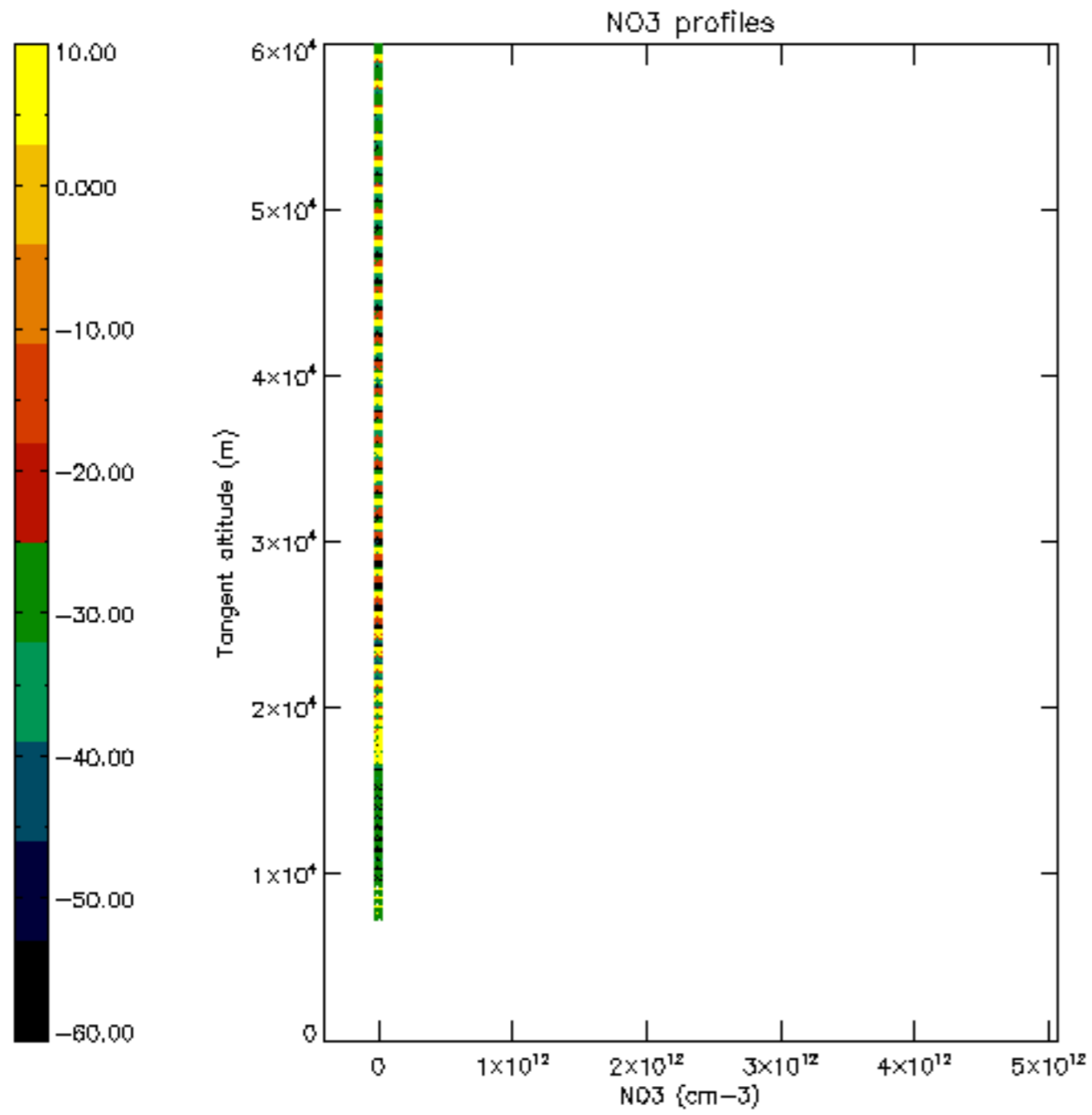


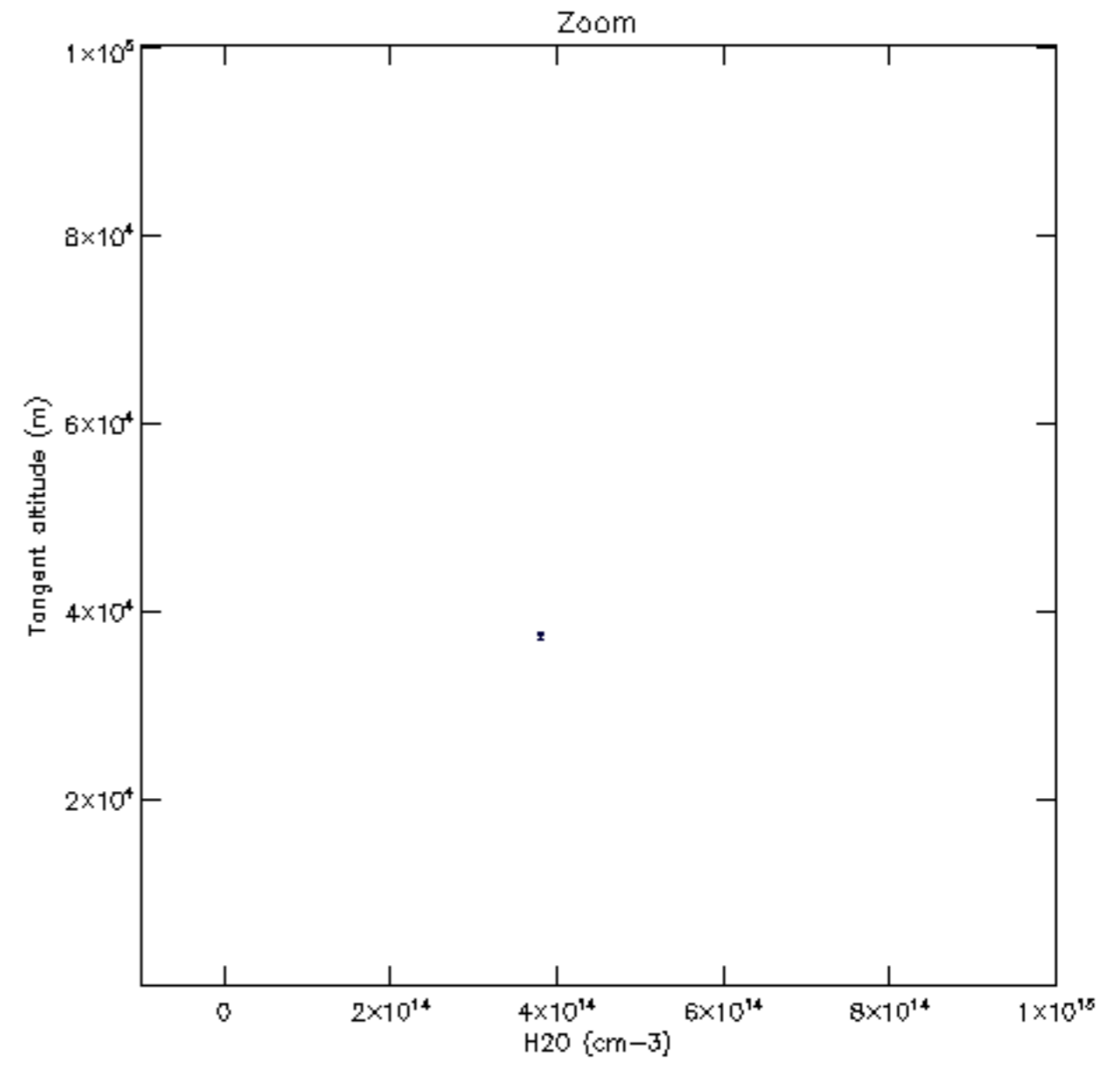
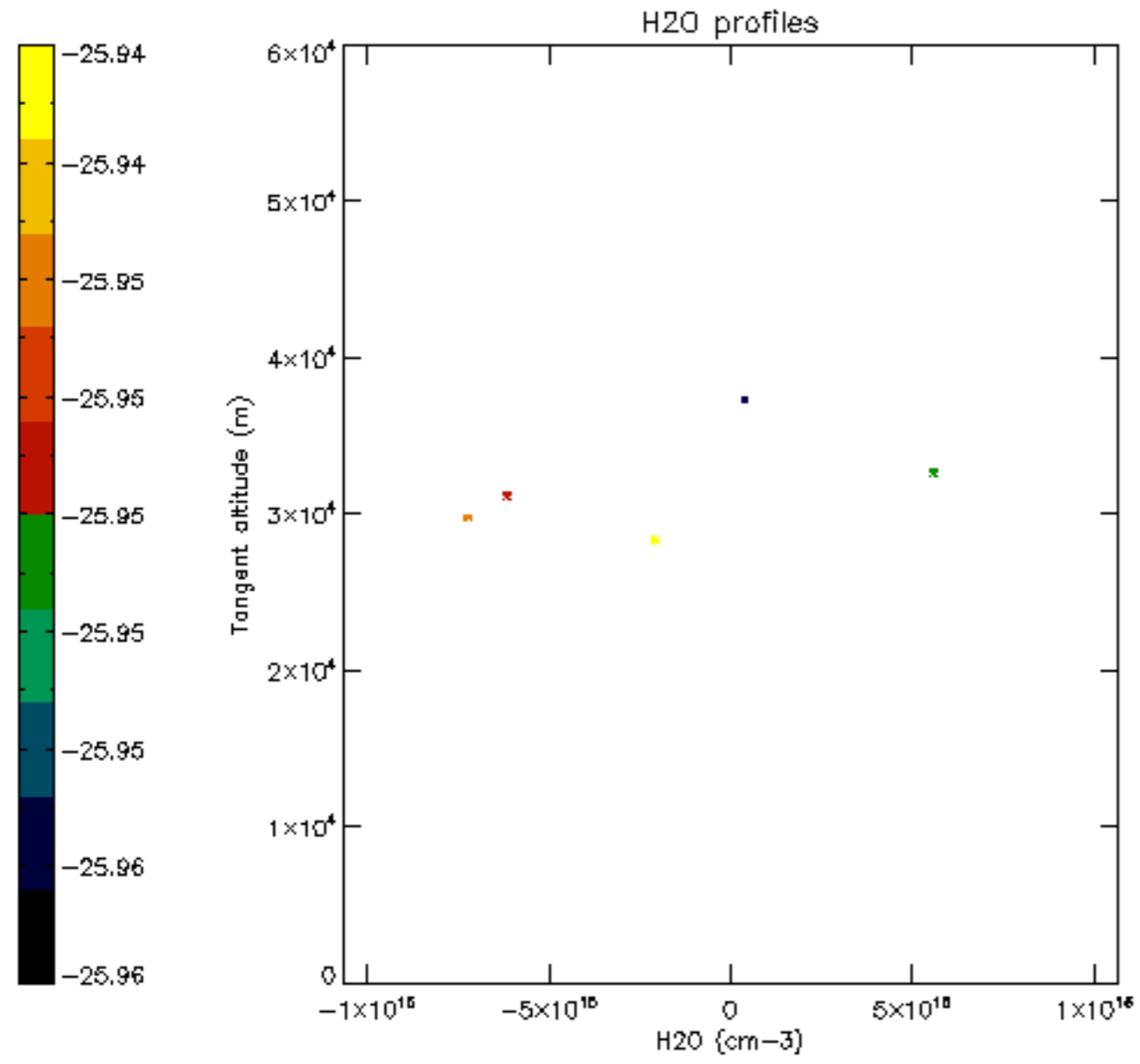


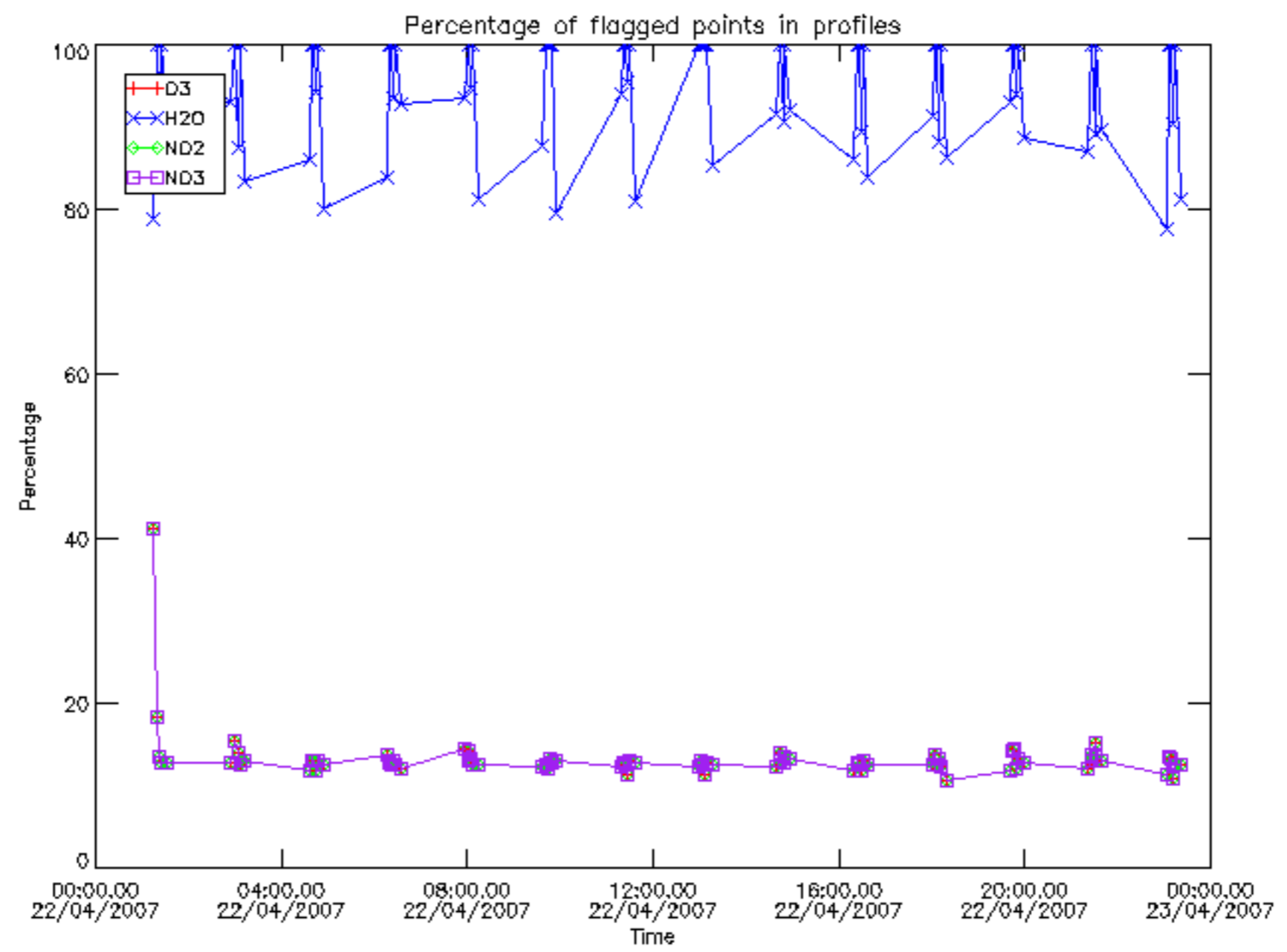




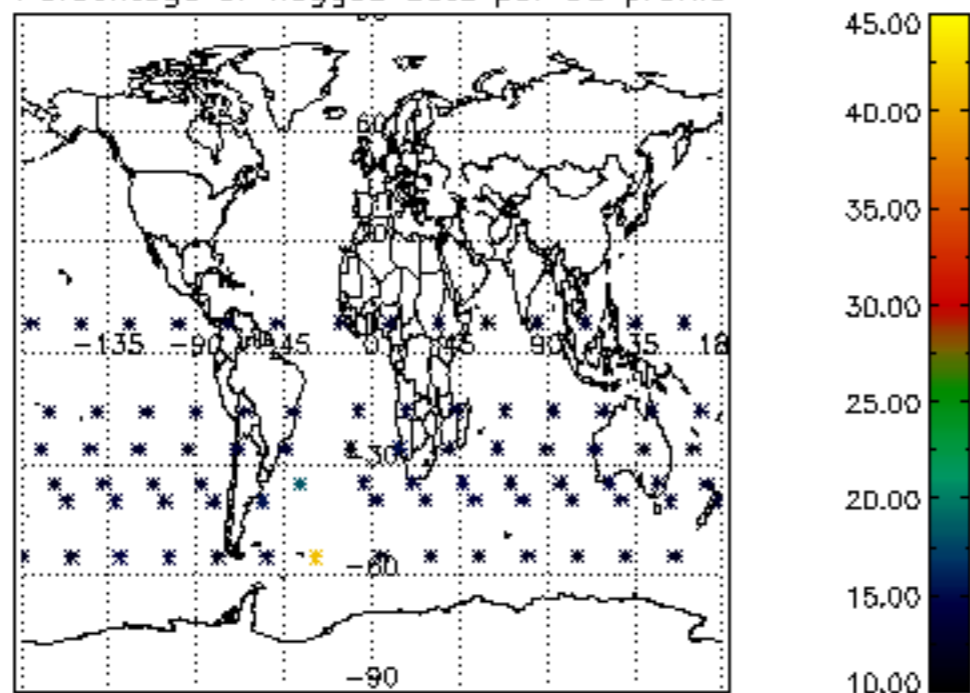




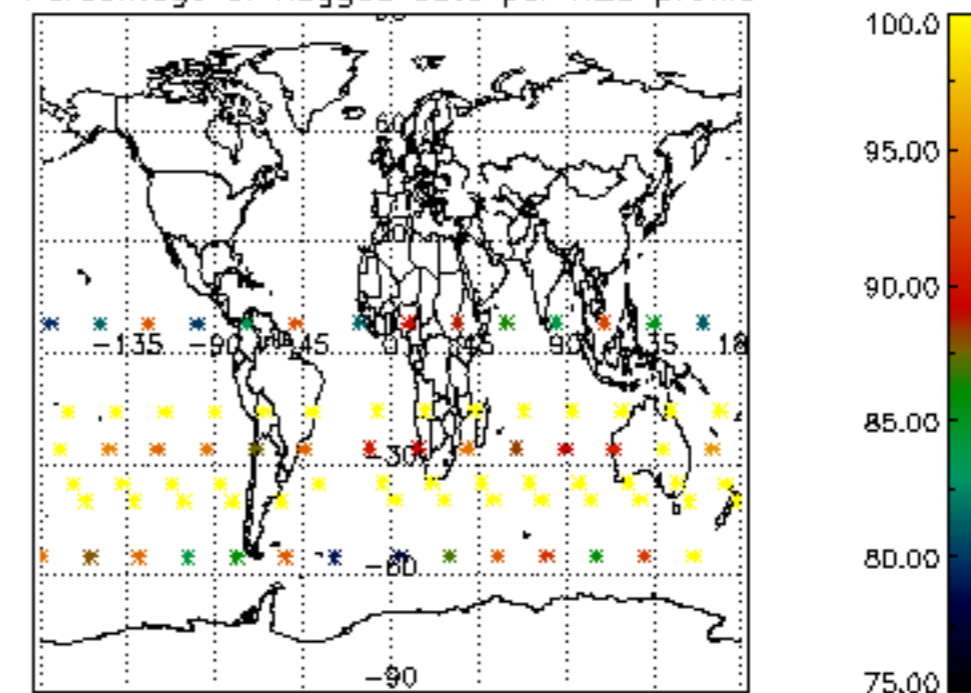




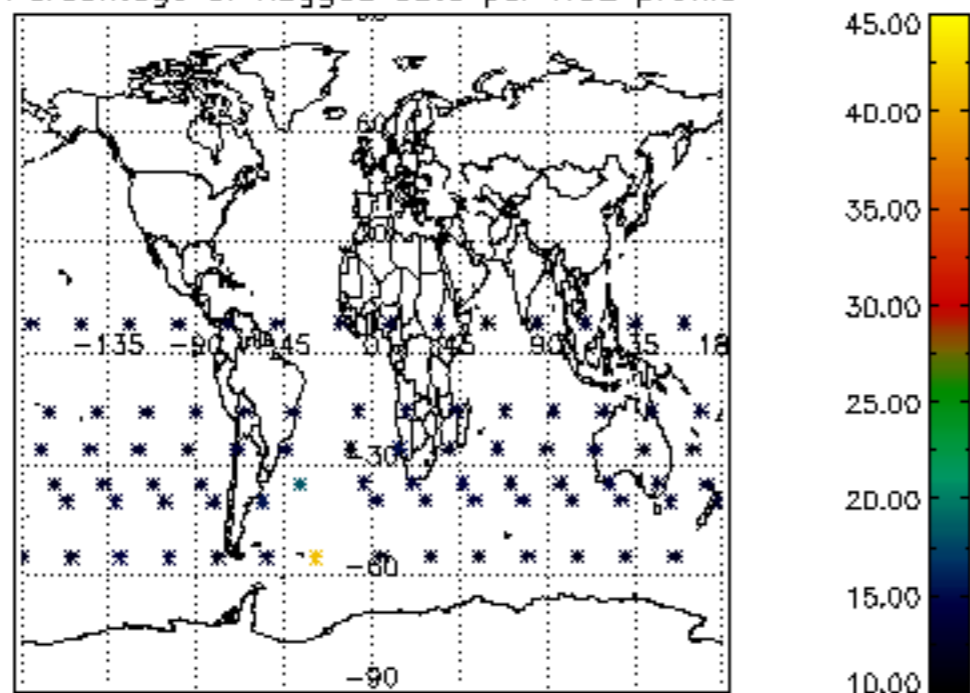
Percentage of flagged data per D3 profile



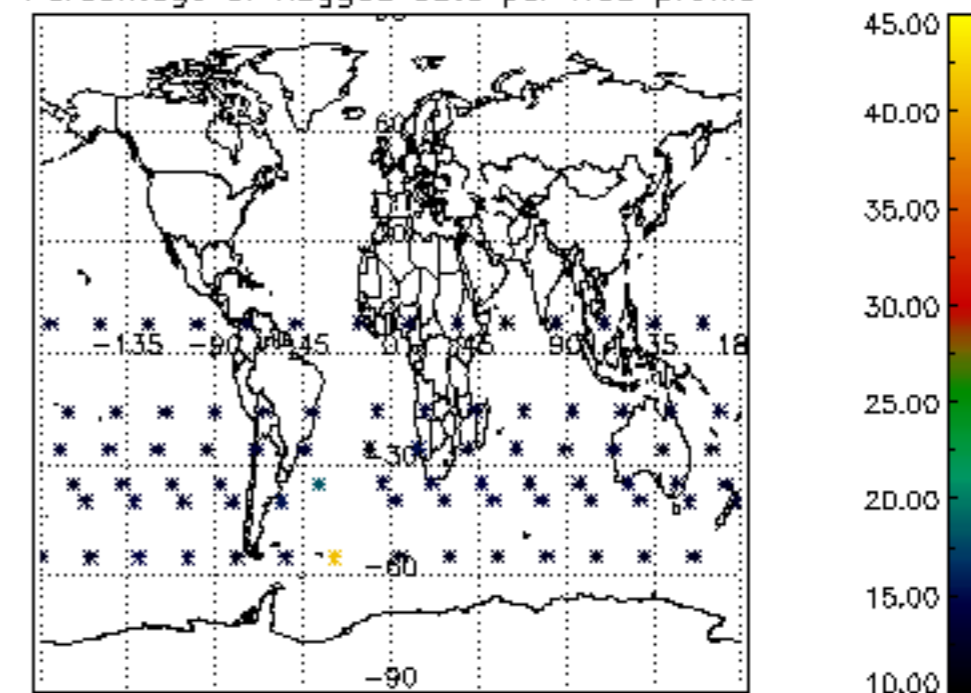
Percentage of flagged data per H2O profile

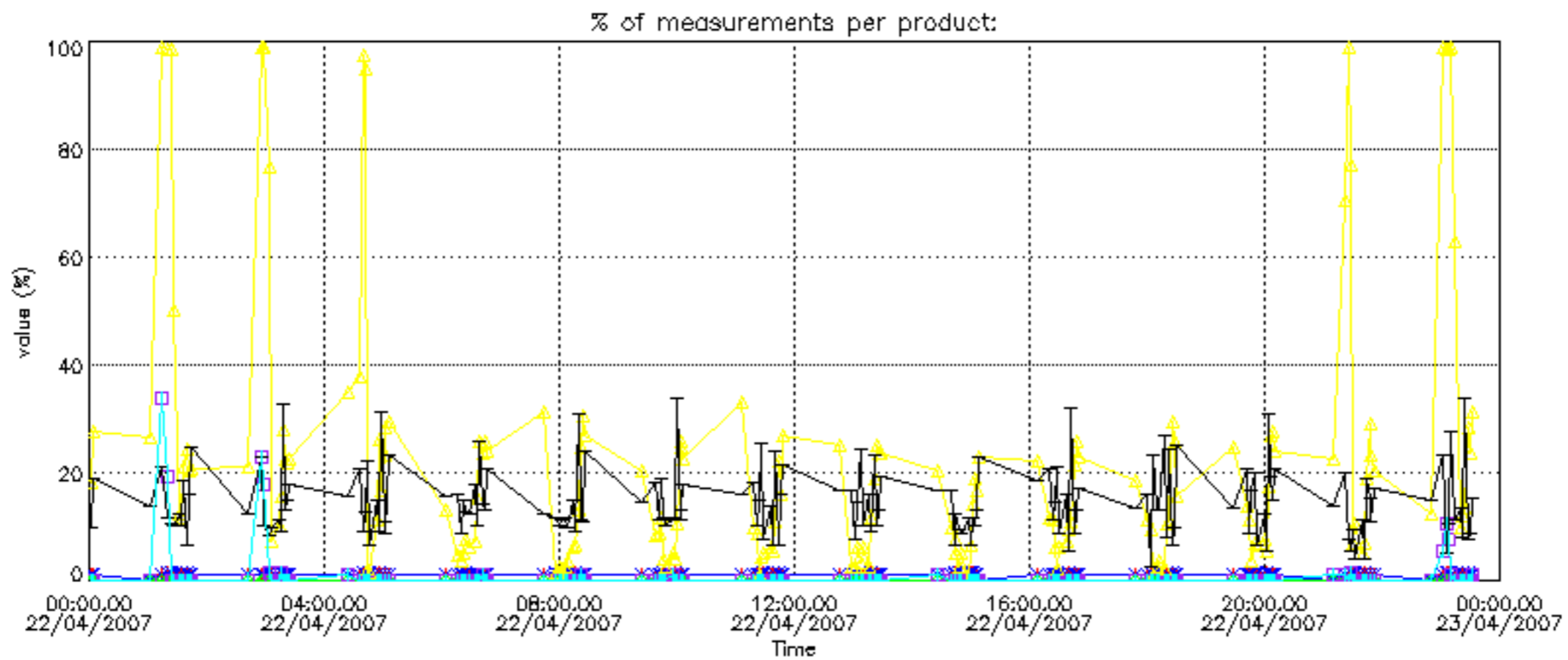


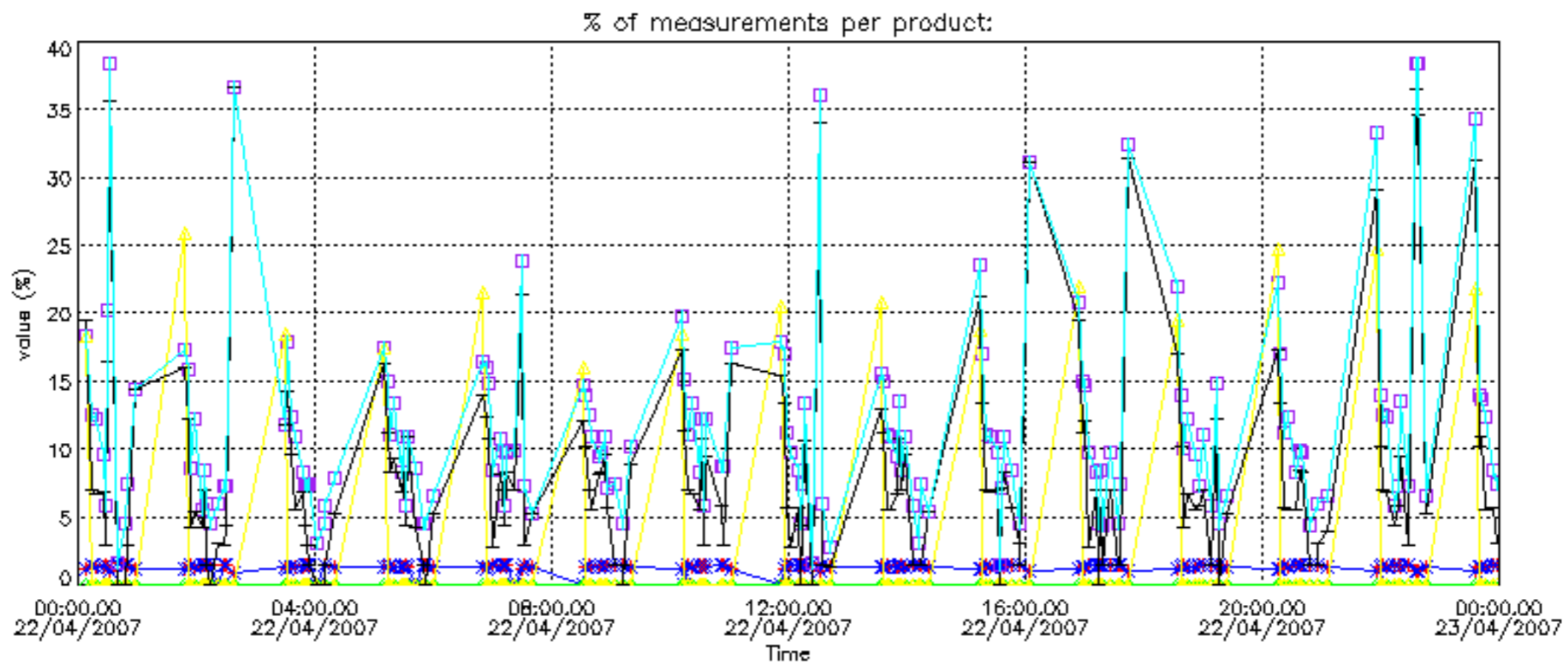
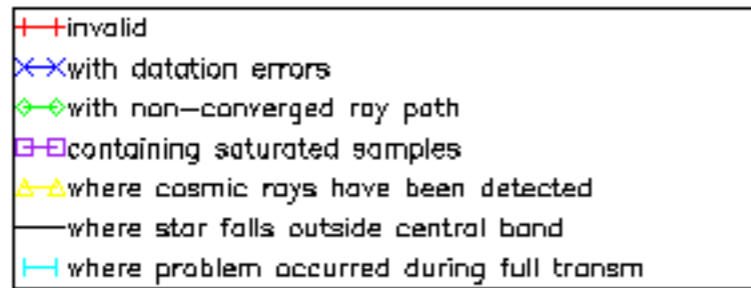
Percentage of flagged data per NO2 profile



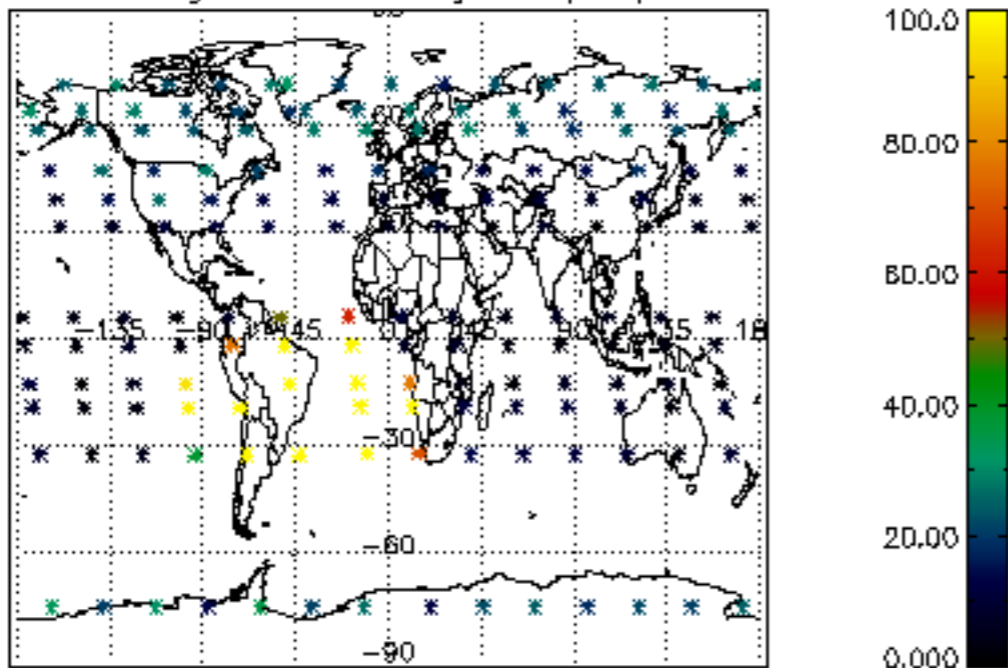
Percentage of flagged data per NO3 profile



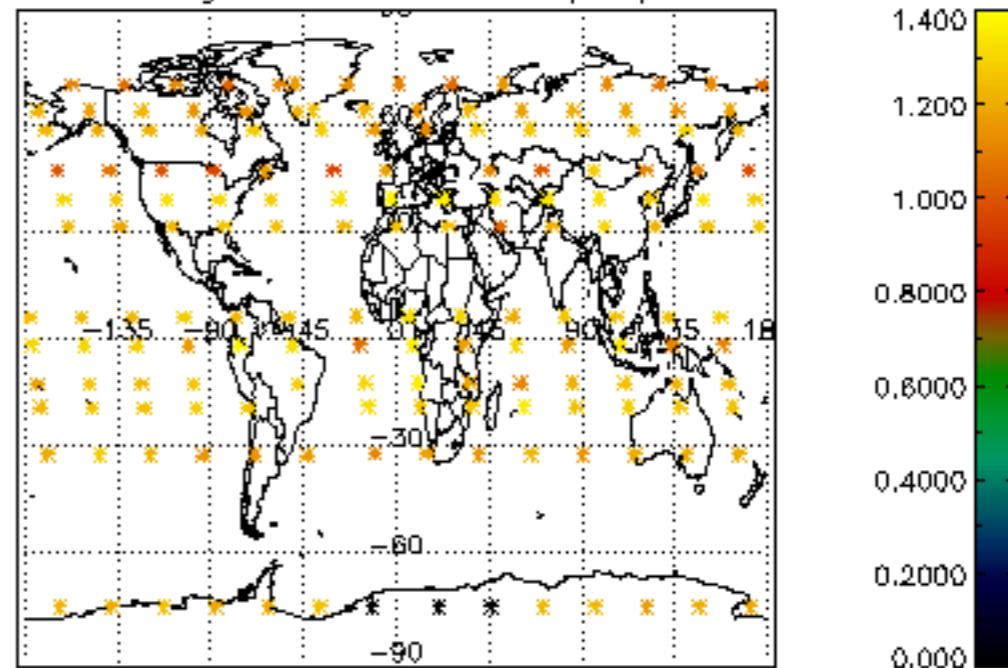




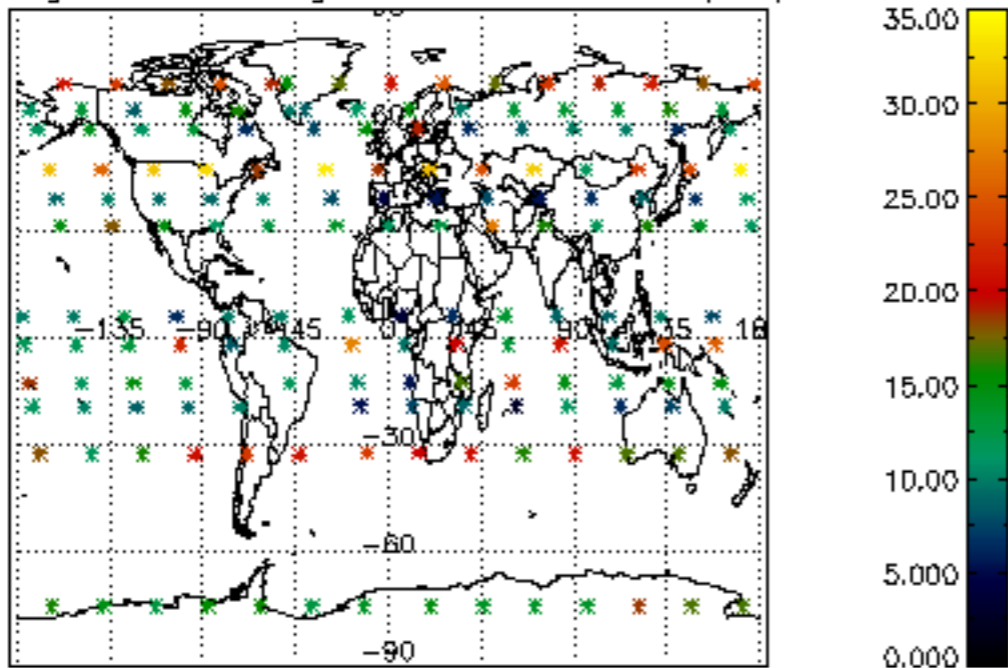
Percentage of cosmic ray hits per profile



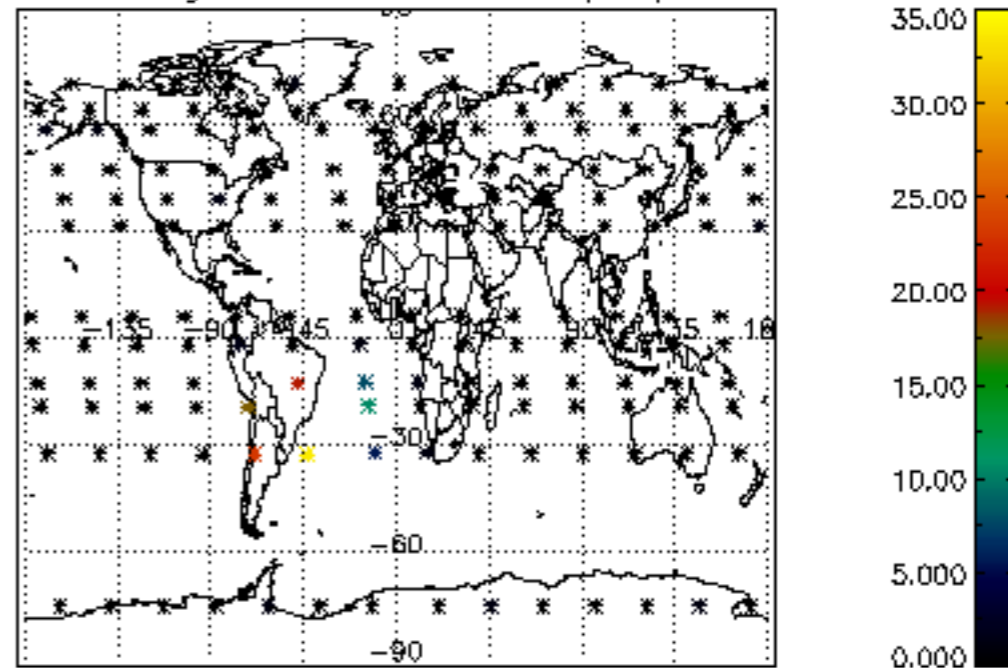
Percentage of datation errors per profile



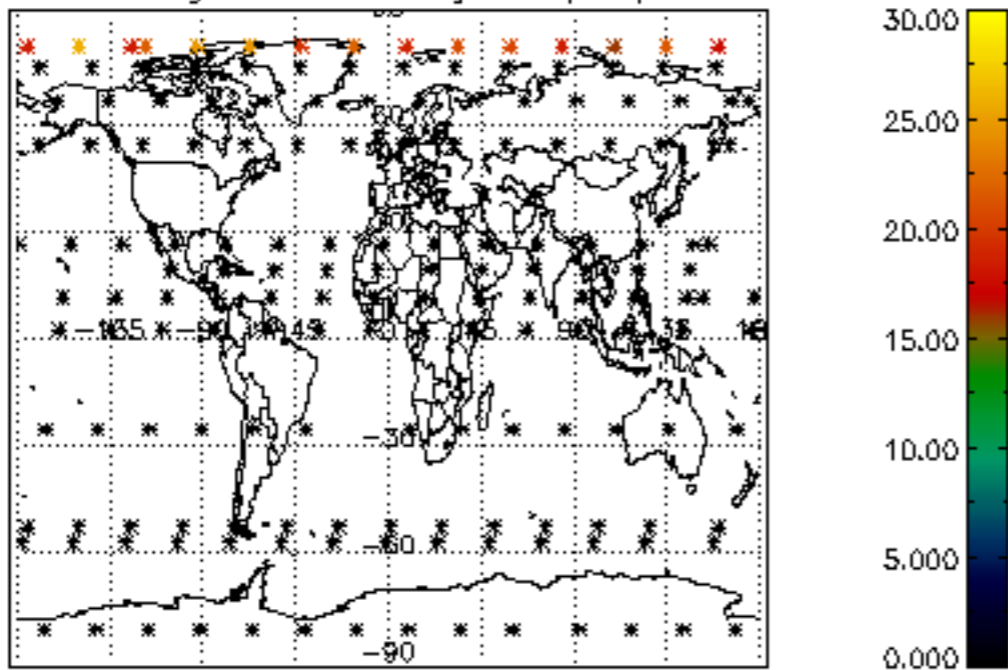
Percentage of star falling outside central band per profile



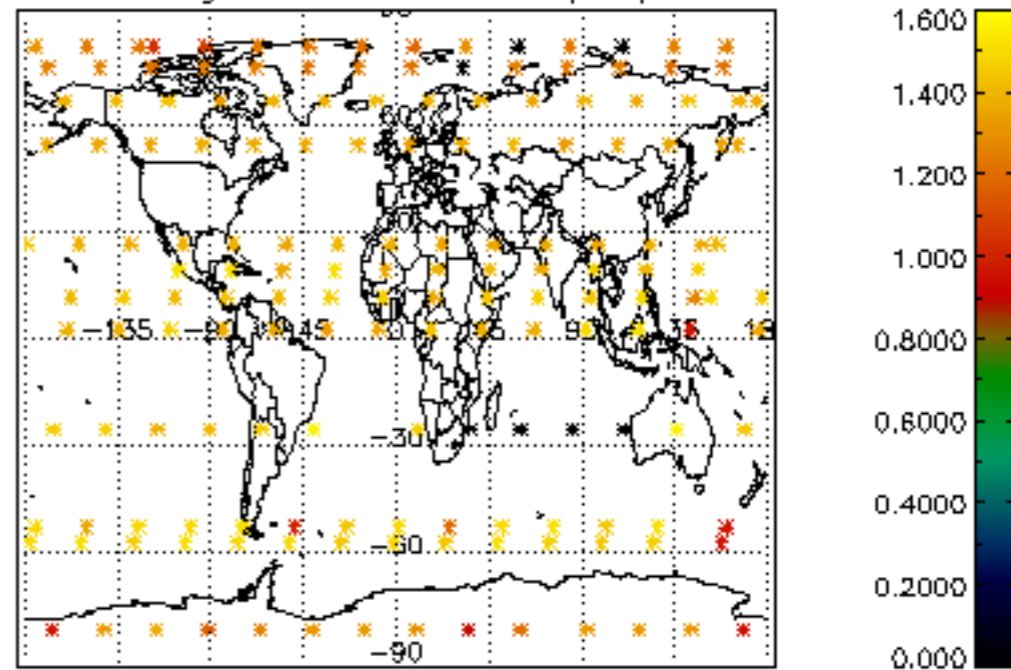
Percentage of saturation errors per profile



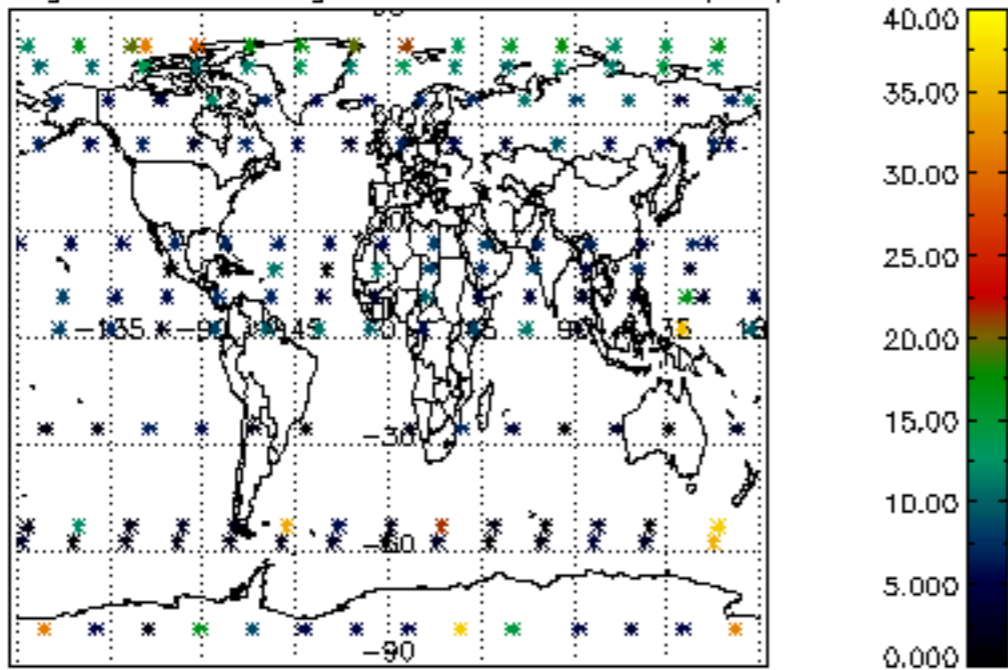
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

