

GOMOS Level 2 Daily Report

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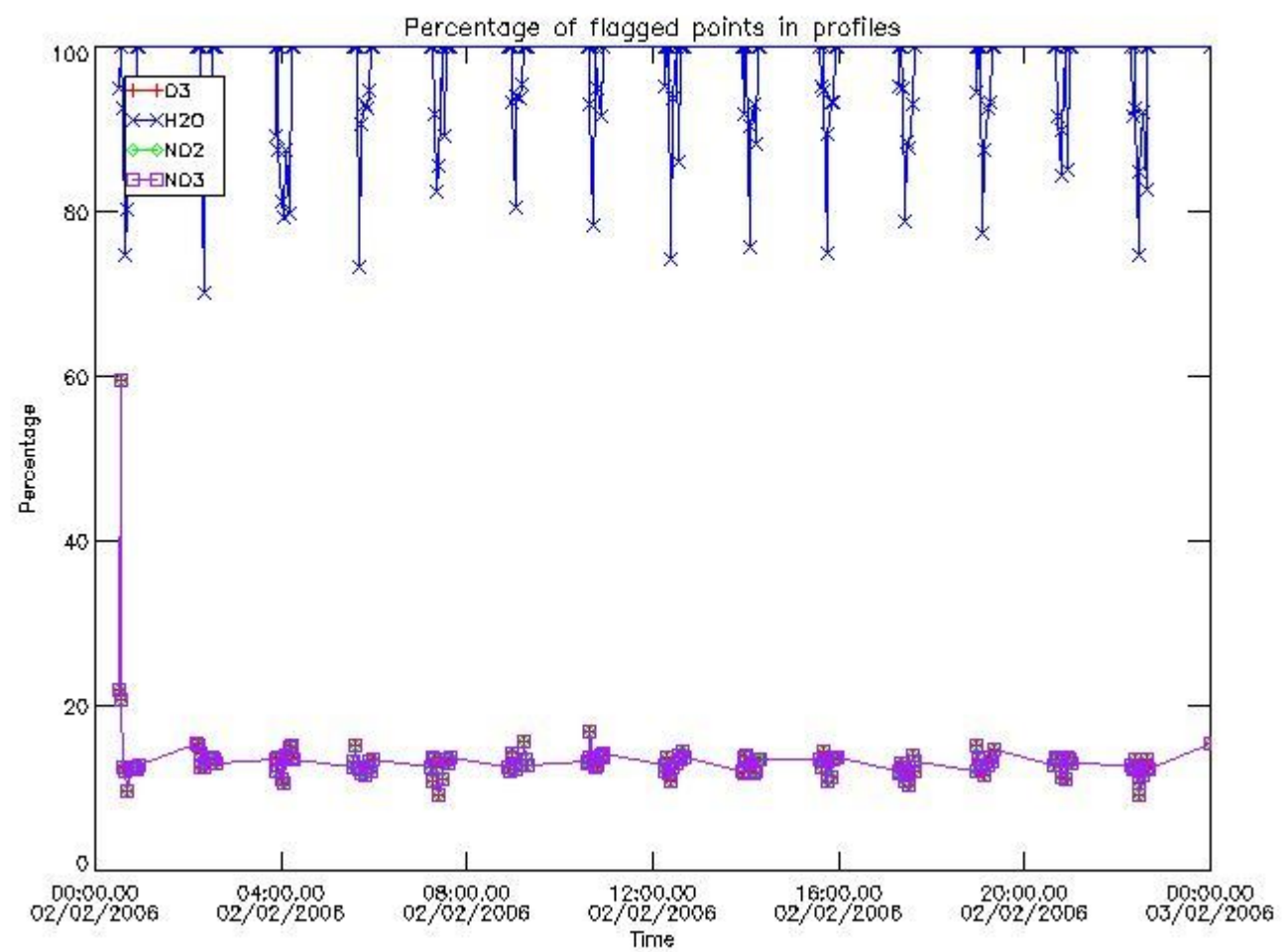
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3. Quality information per product

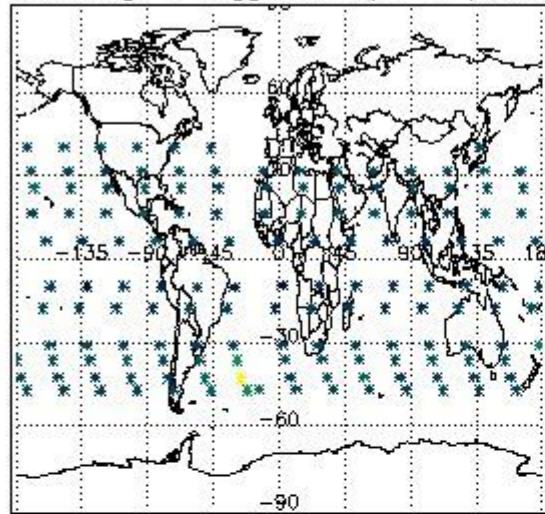
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

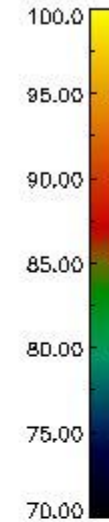
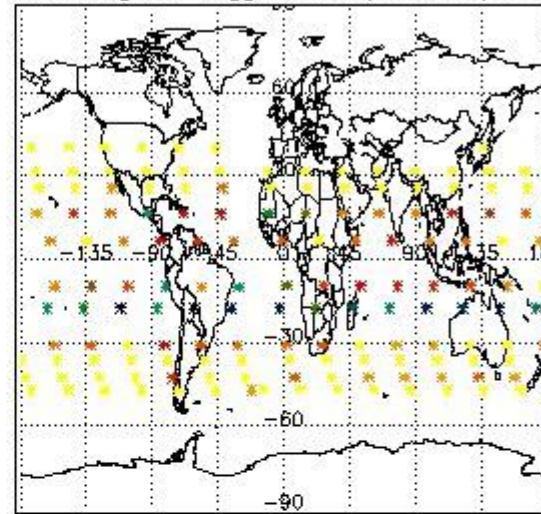


3.2 Plot quality information per product (world map)

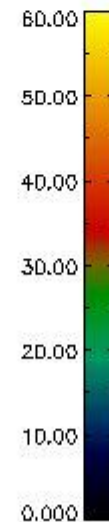
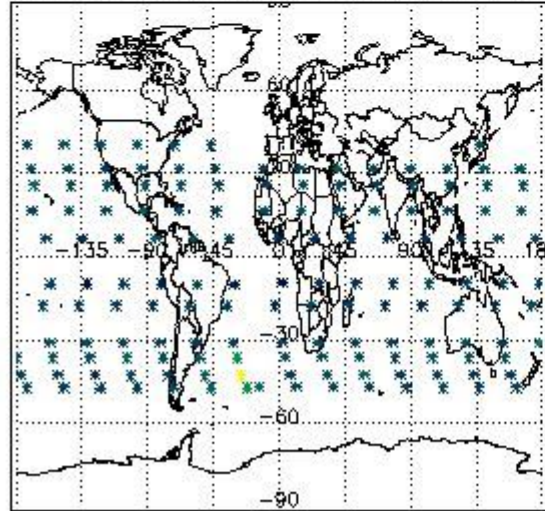
Percentage of flagged data per O3 profile



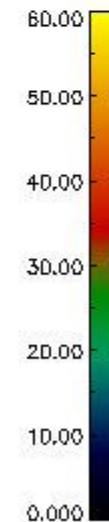
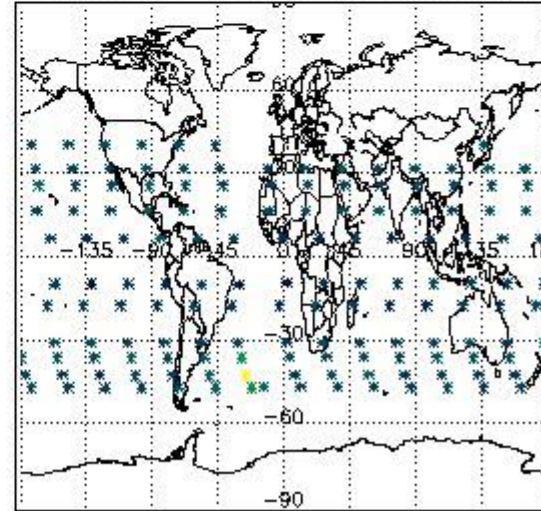
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

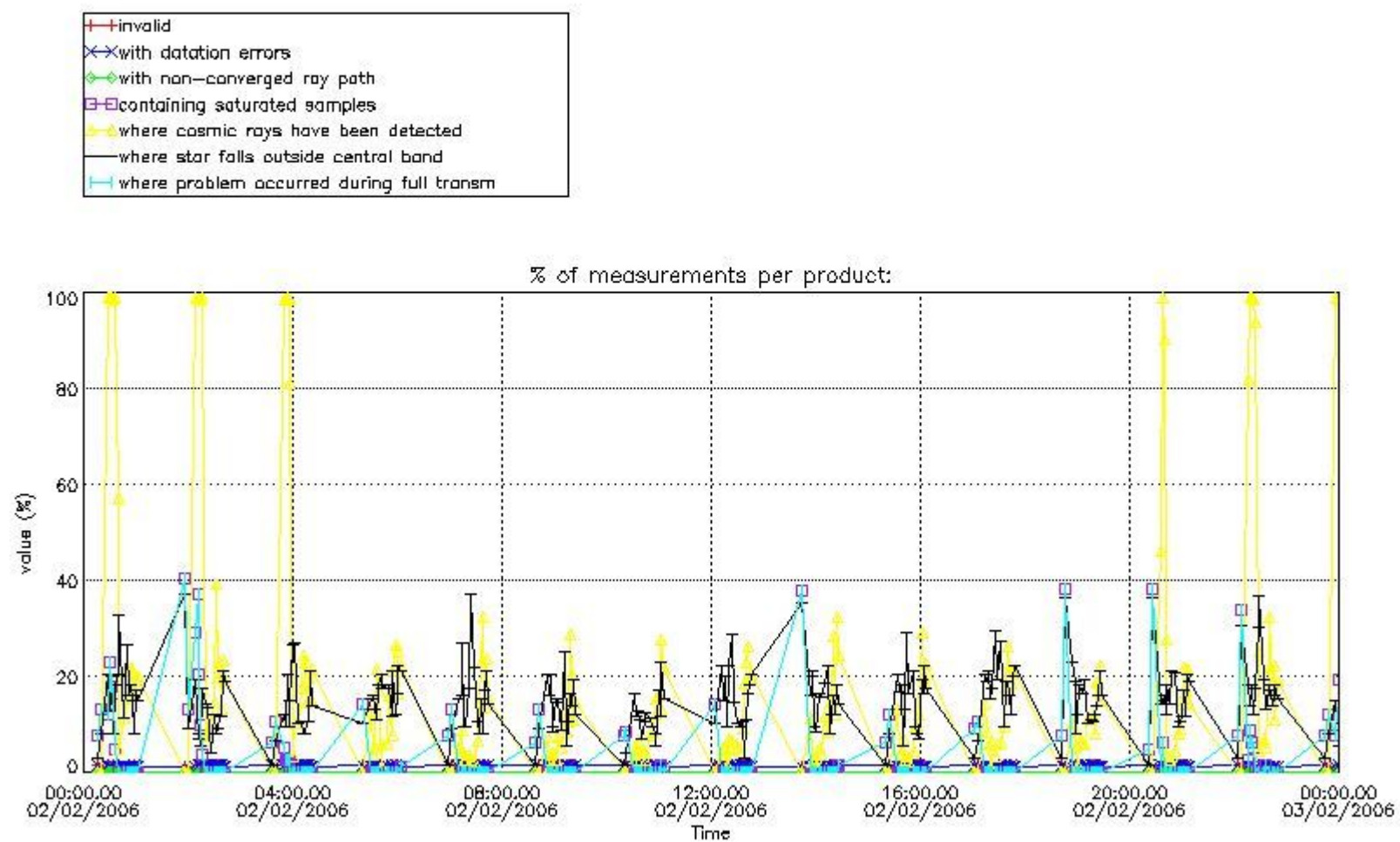


4. Level 1 quality information per product

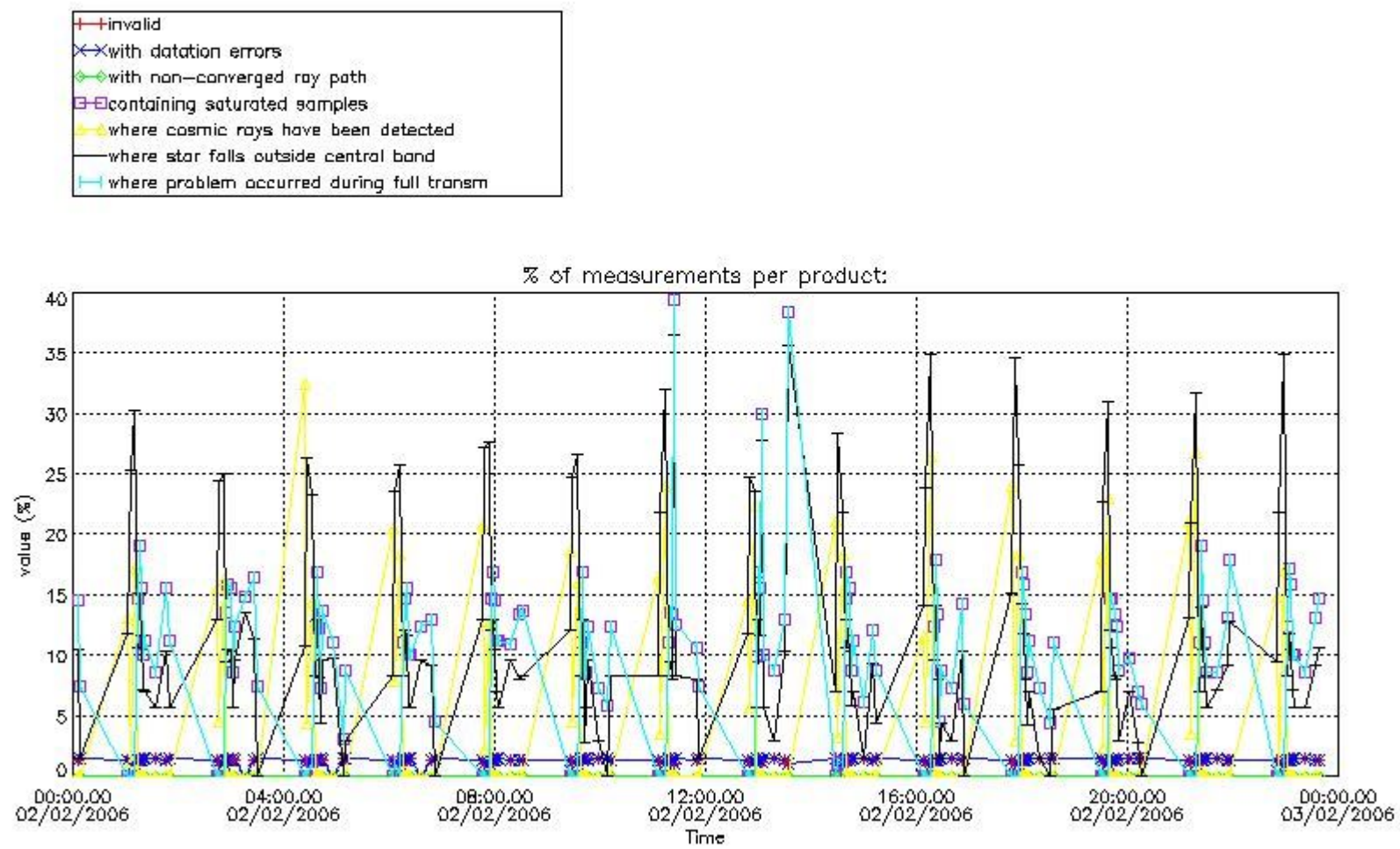
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

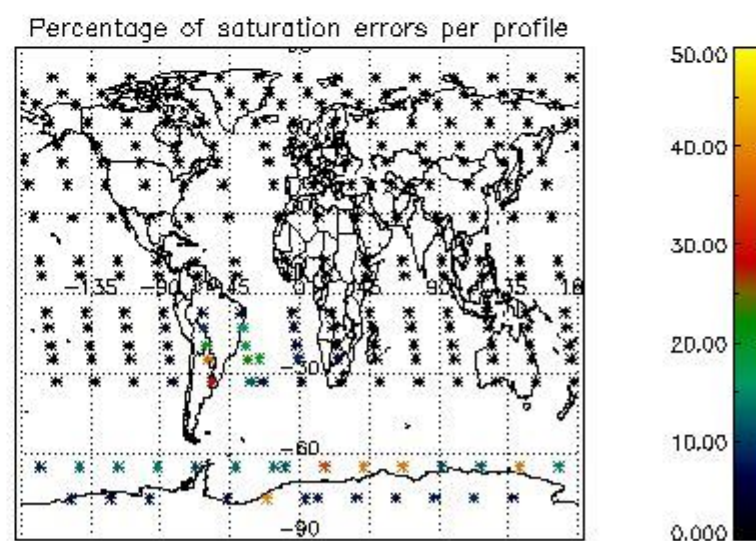
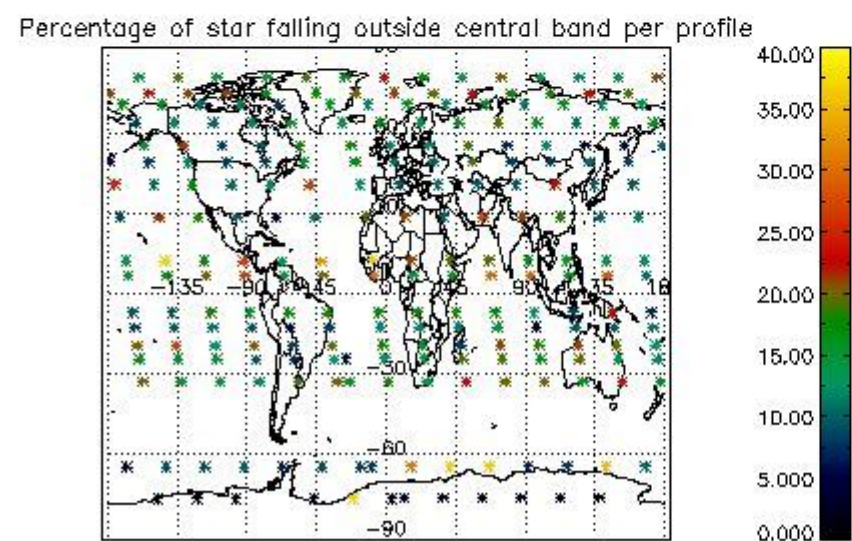
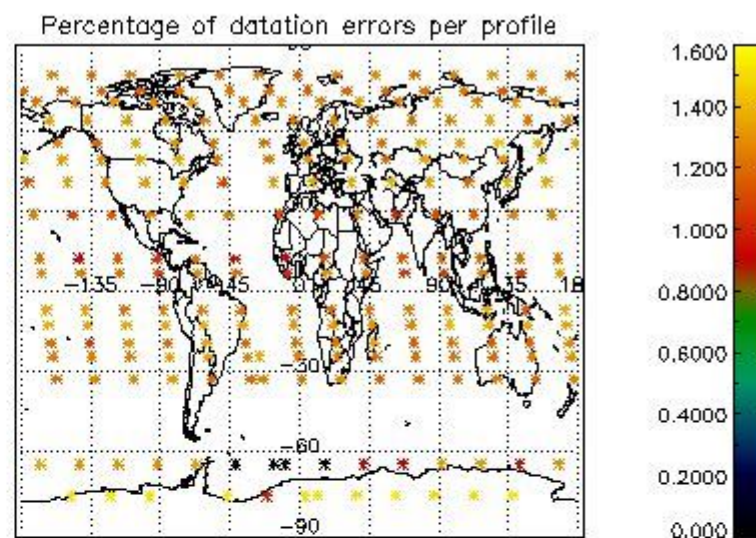
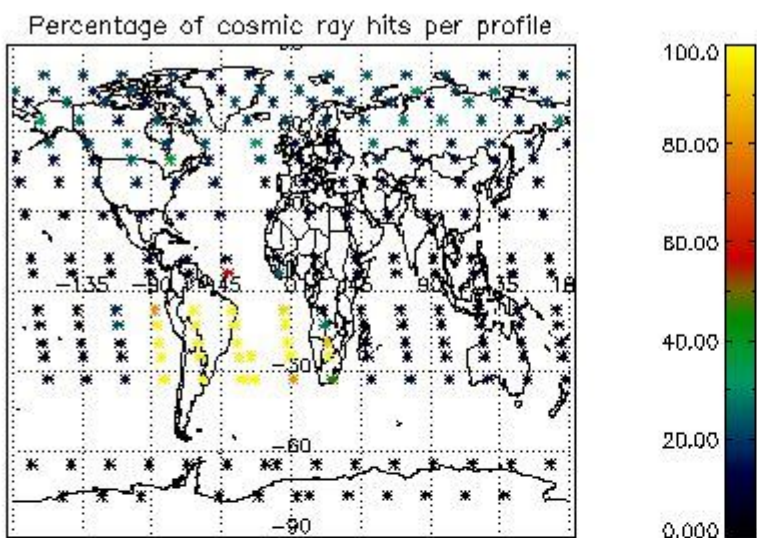


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

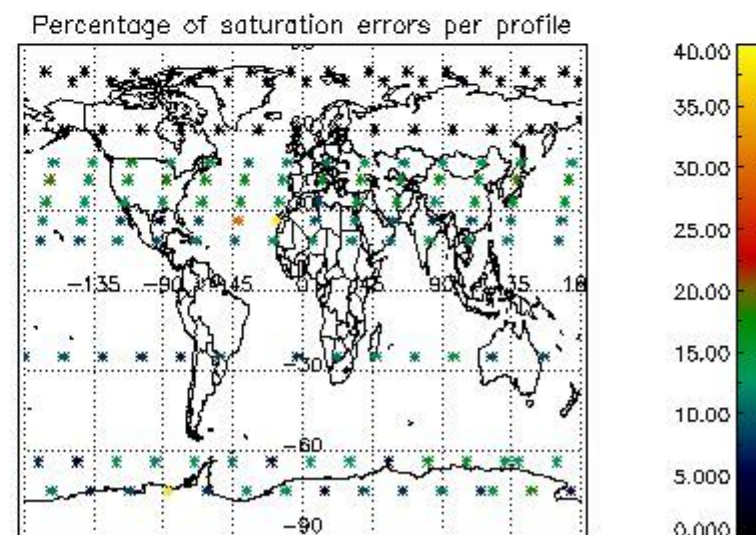
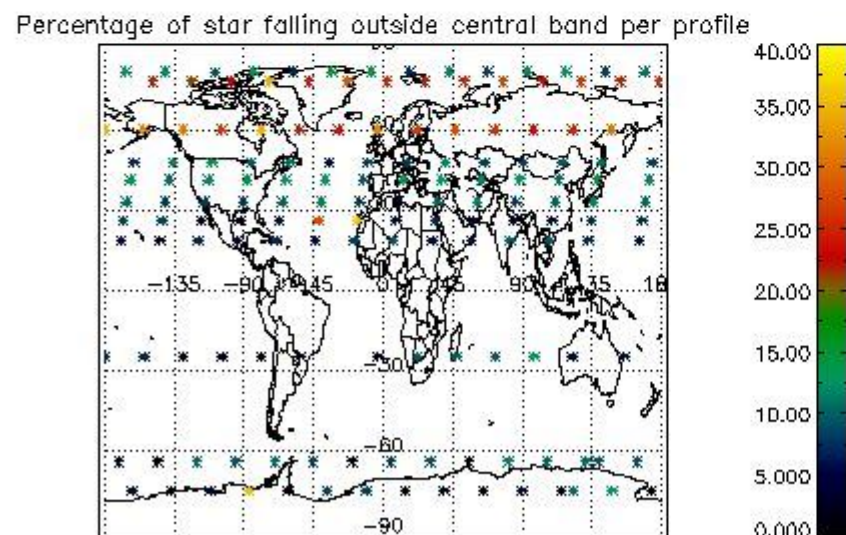
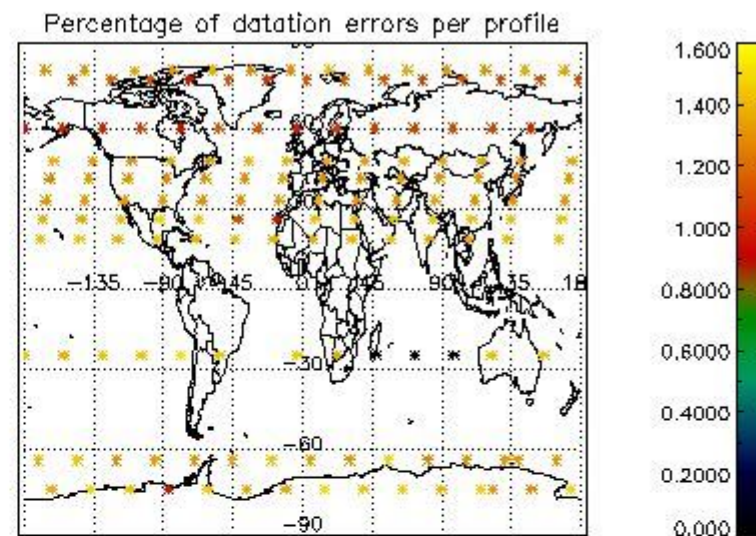
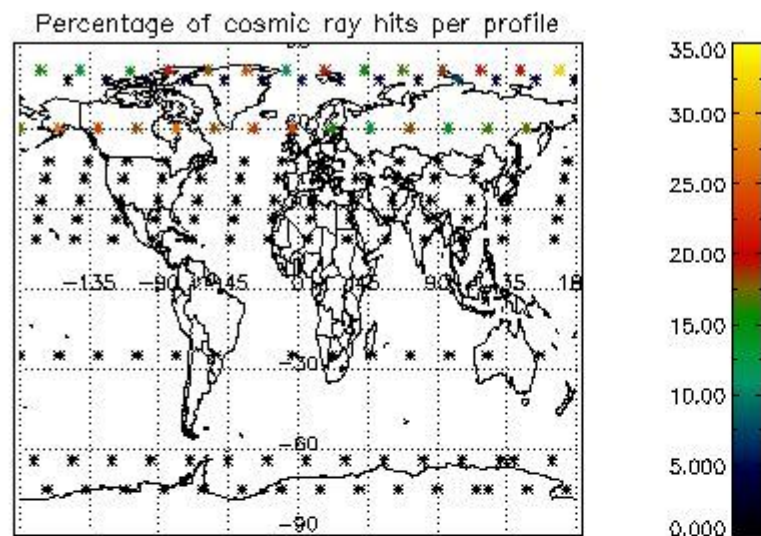


4.2 Plot quality information per product coming from level 1b processing (world map)

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

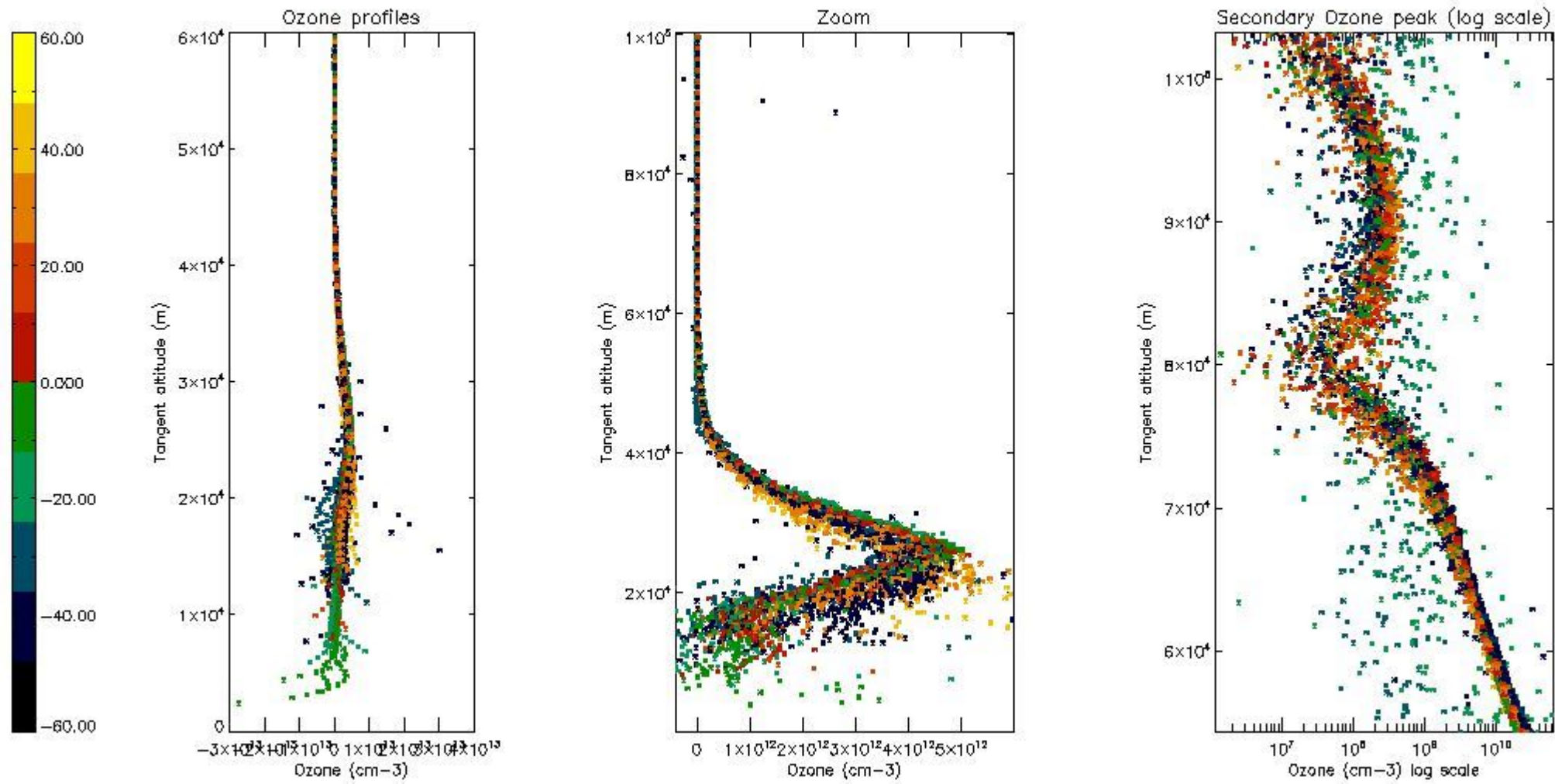
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	39
STD < 20	21

STD < 10	18
STD < 5	11

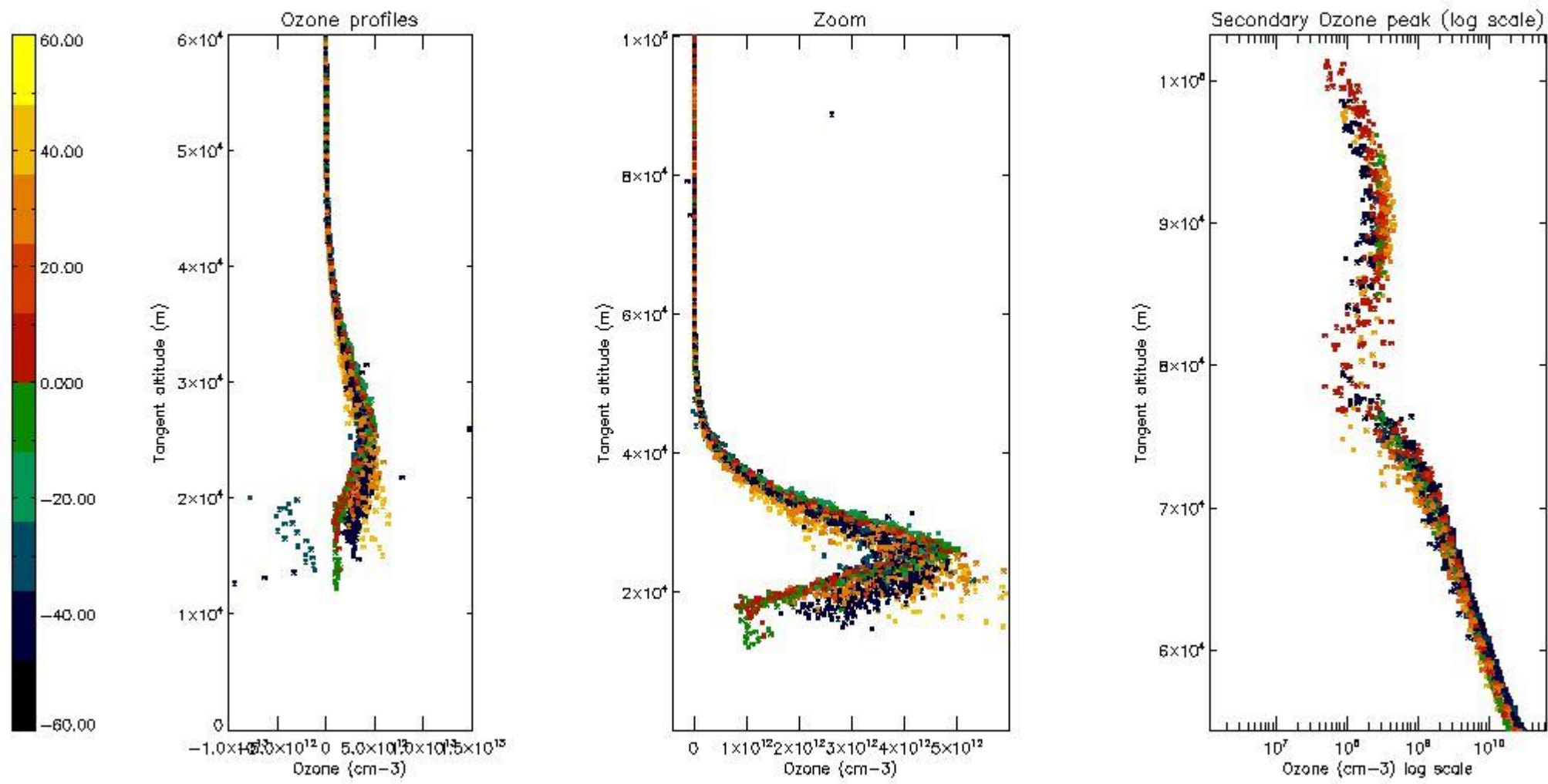
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



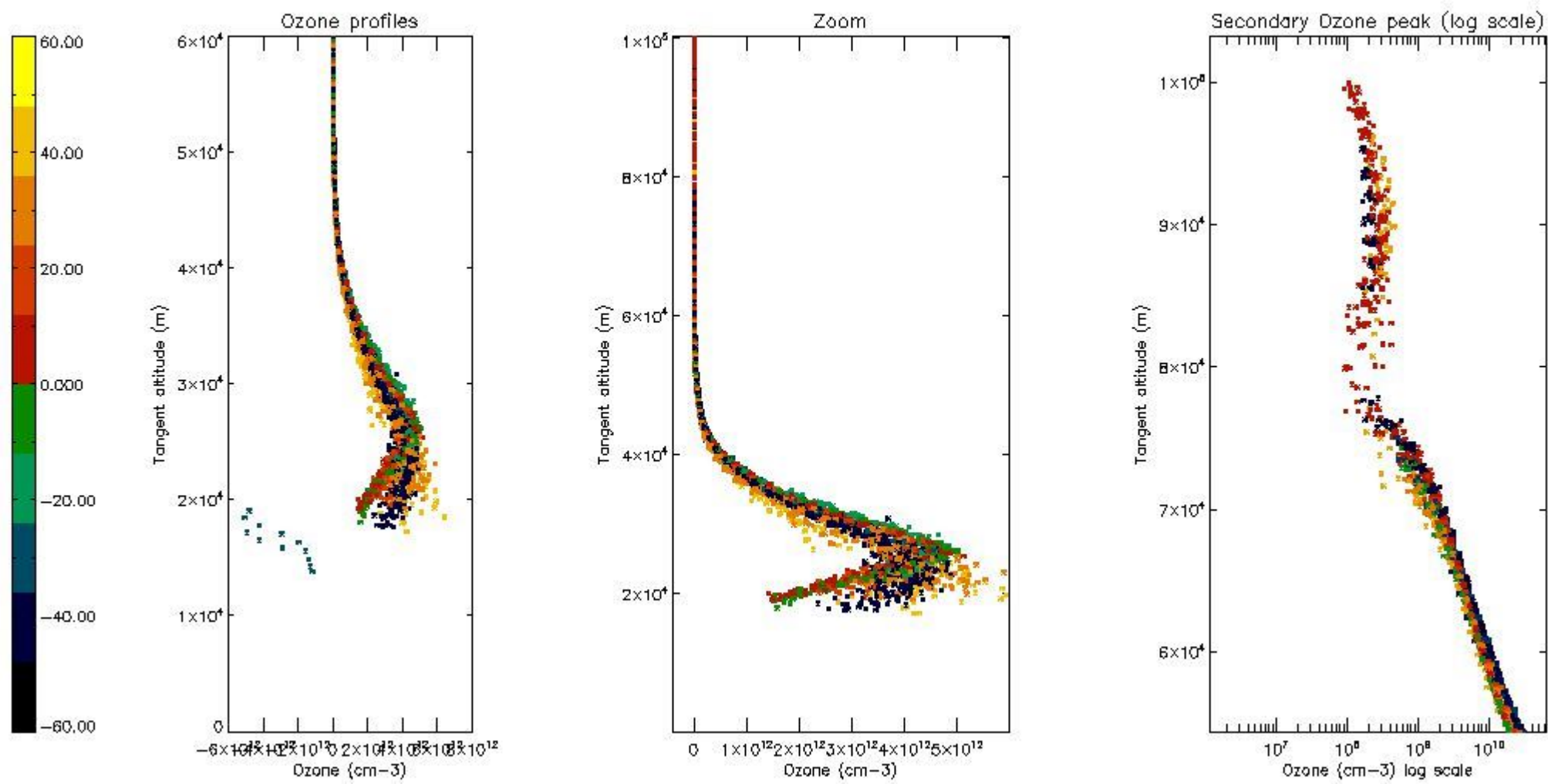
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



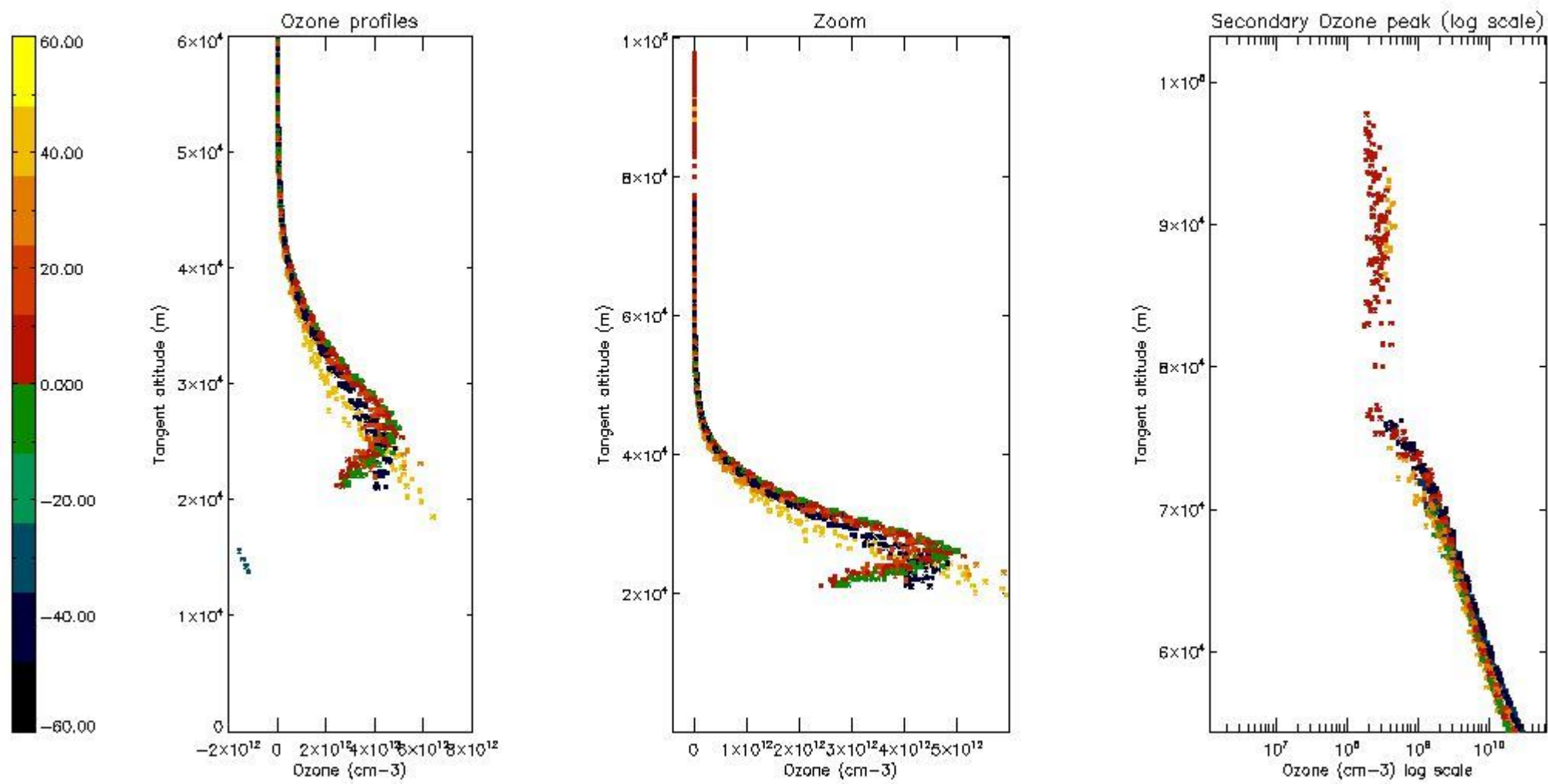
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



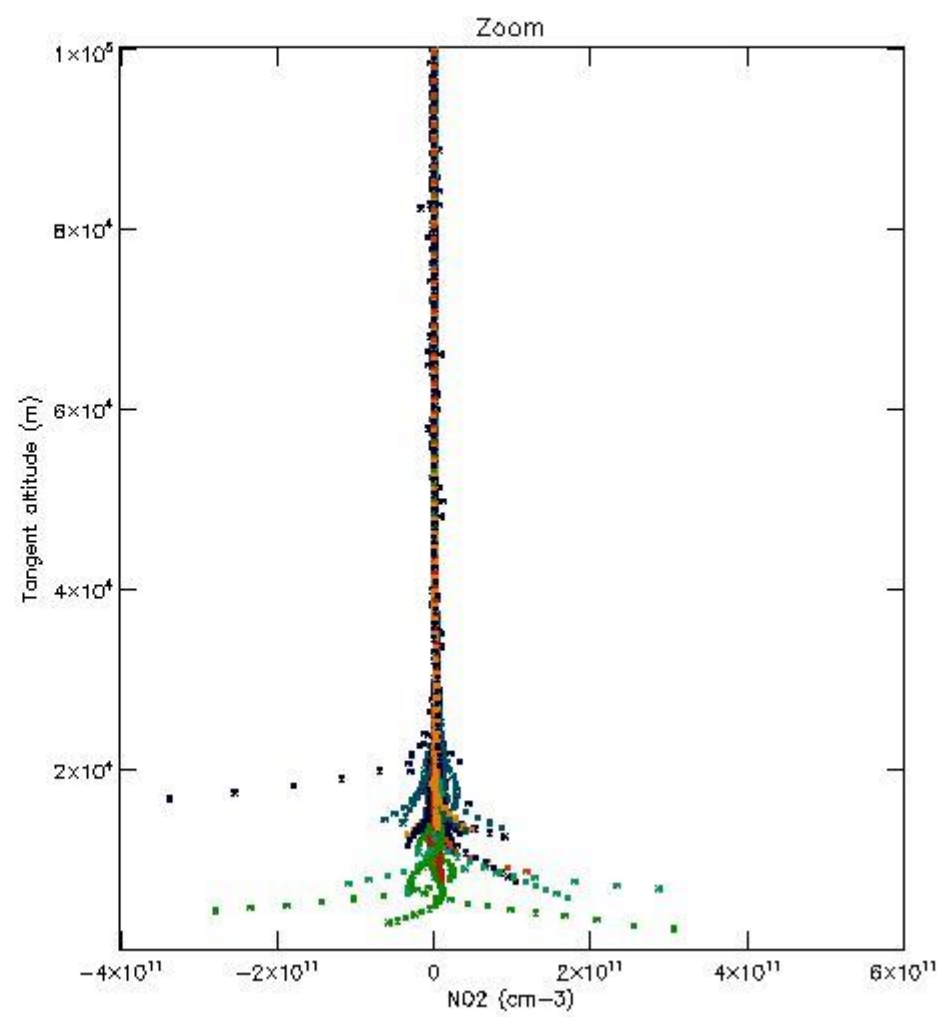
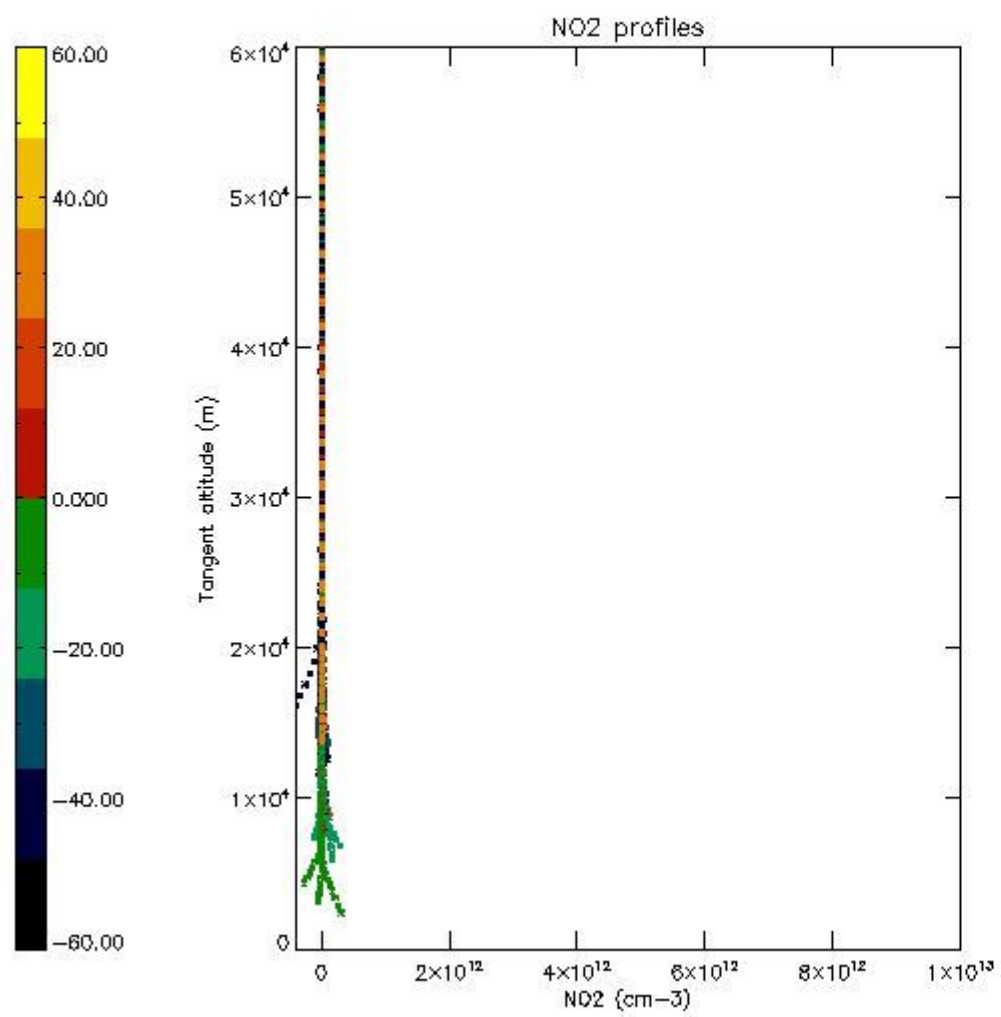
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



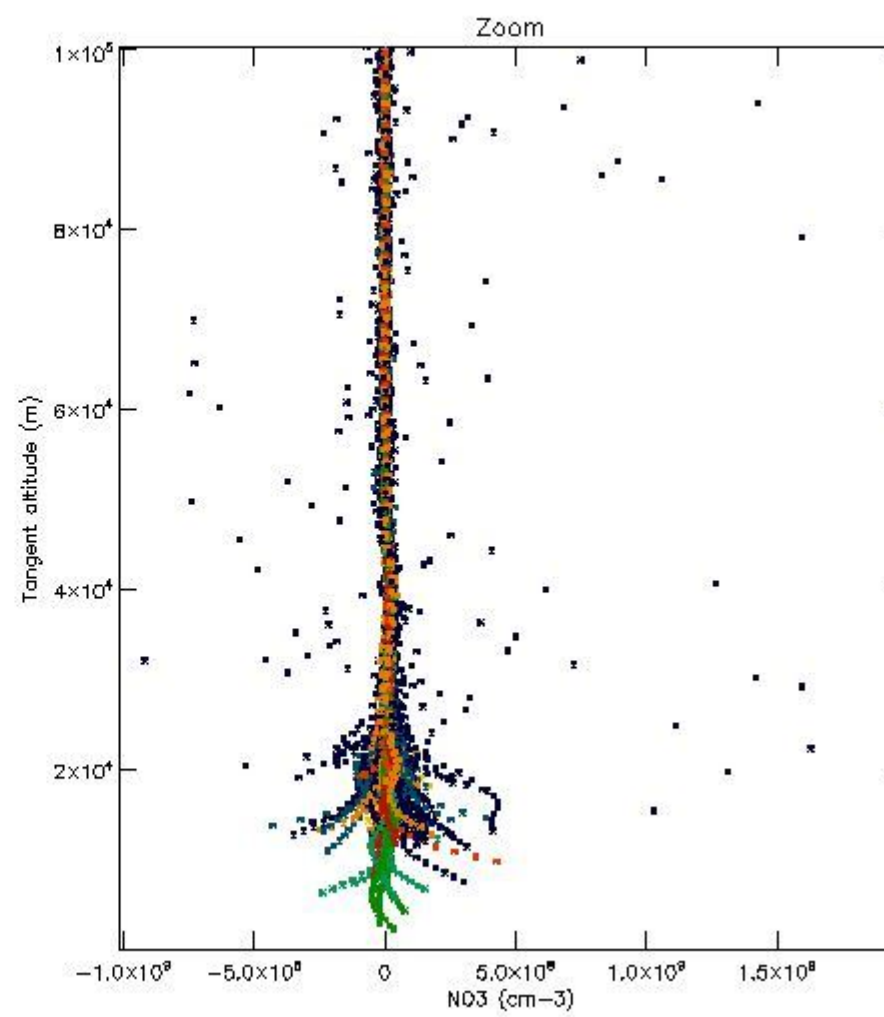
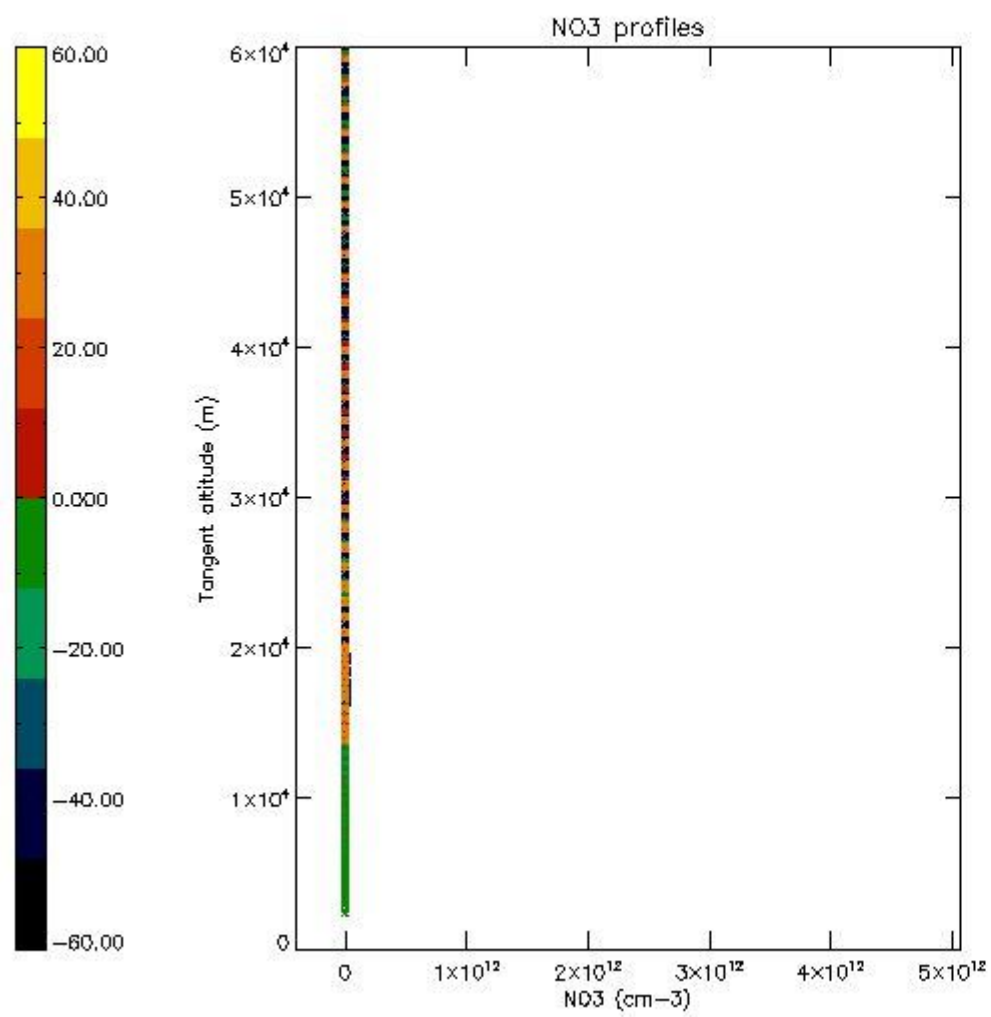
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



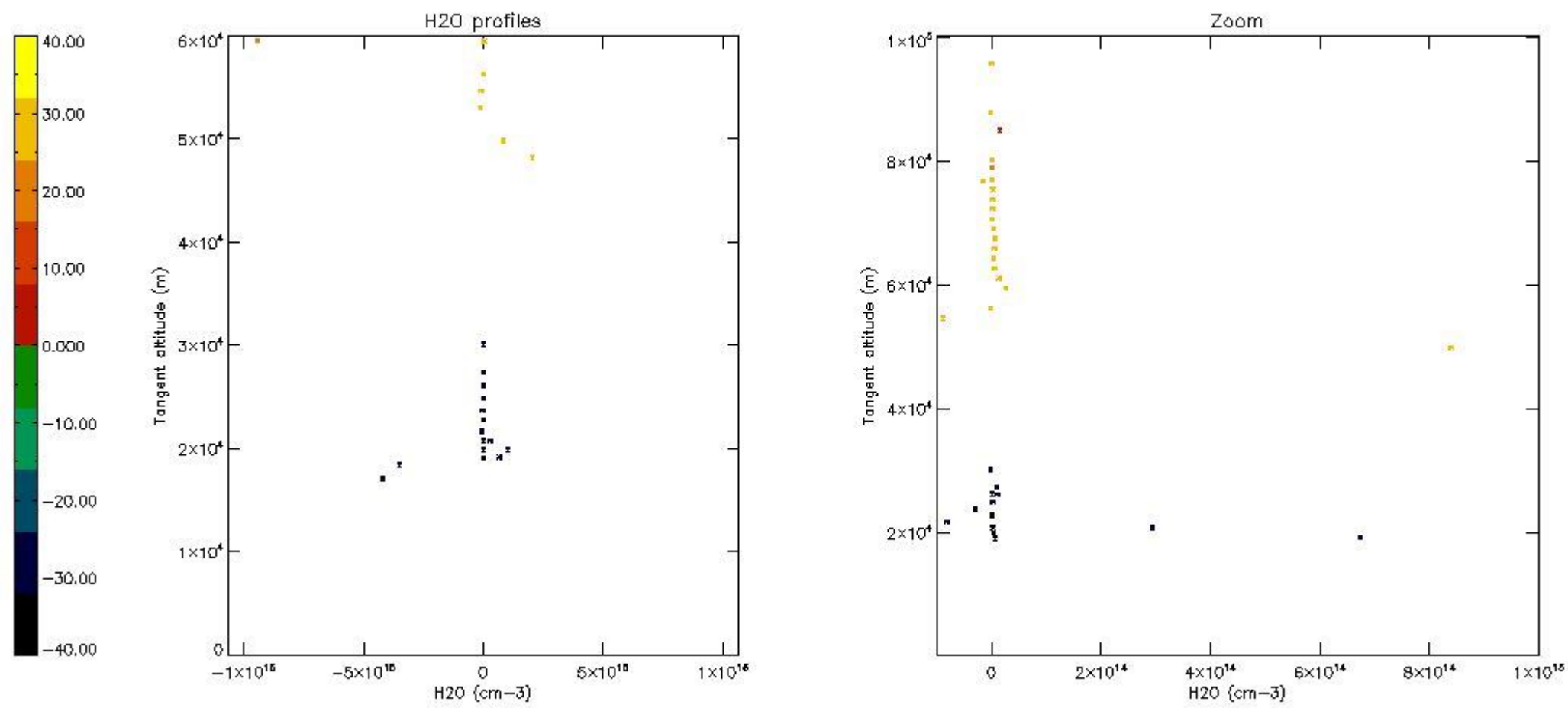
5.7 Plot NO3 profiles for all STD (dark without errors)

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	02-FEB-2006 00:05:20
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	02-FEB-2006 00:05:20
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	02-FEB-2006 00:05:20

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[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 15:13:51
Data source version	GOMOS/6.01
Start time of products	02-02-2006 (02FEB2006 00:00:00)
Stop time of products	03-02-2006 (03FEB2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	394
Nb of prods with errors	0

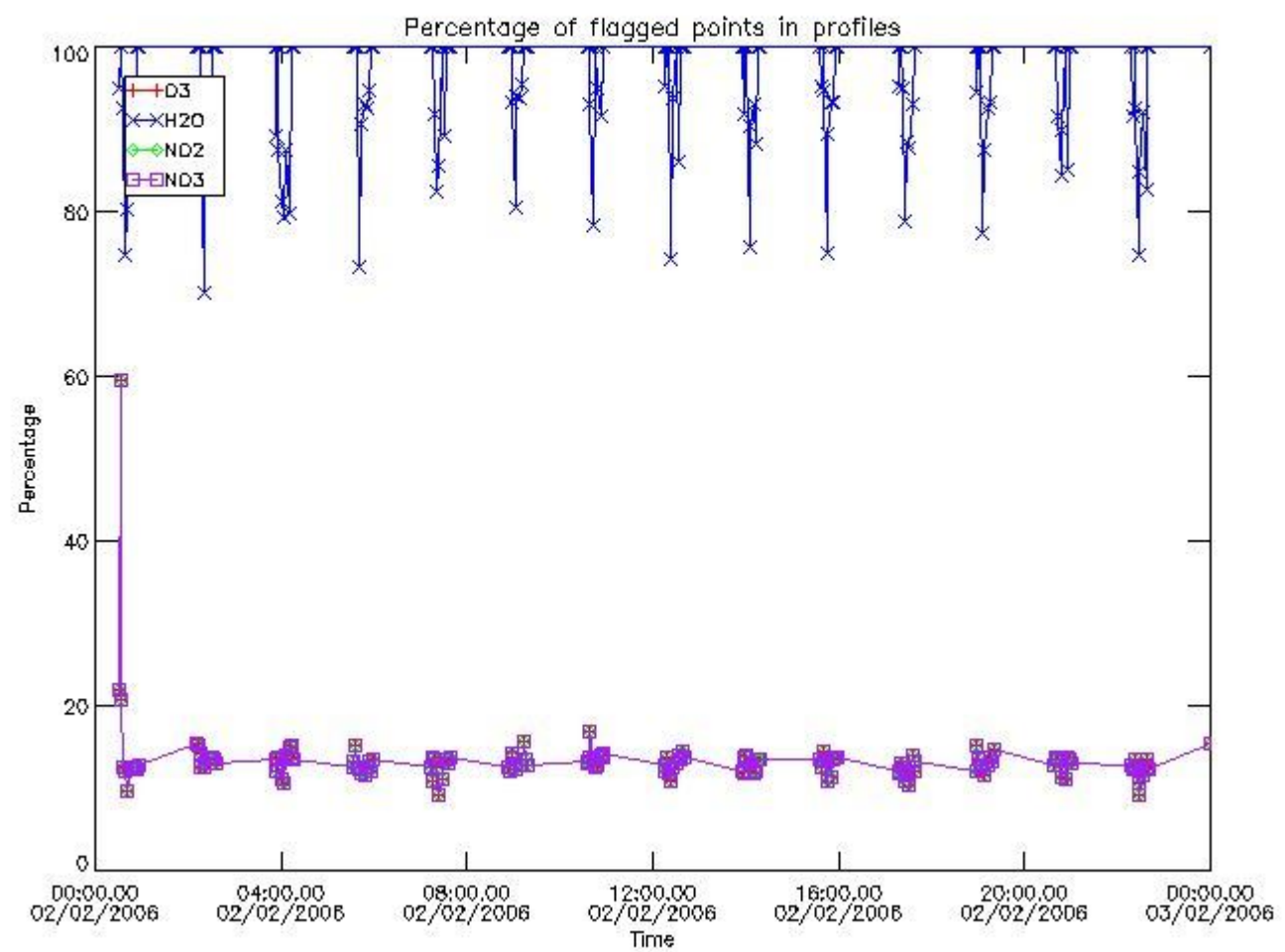
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060202_000520_000000382044_00431_20525_7814.N1	02-FEB-2006 00:05:20	Bright	38.000	69	33Gam Dra	2.2310	3800.0	76	20525	No
2	GOM_NL__2PRFIN20060202_000846_000000342044_00431_20525_7815.N1	02-FEB-2006 00:08:46	Bright	34.000	5	3Alp Lyr	0.033000	11000.	68	20525	No
3	GOM_NL__2PRFIN20060202_001526_000000332044_00431_20525_7816.N1	02-FEB-2006 00:15:26	Bright	33.000	168	17Zet Aql	2.9860	11000.	66	20525	No
4	GOM_NL__2PRFIN20060202_001909_000000382044_00431_20525_7817.N1	02-FEB-2006 00:19:09	Bright	38.000	126	60Bet Oph	2.7700	4250.0	76	20525	No
5	GOM_NL__2PRFIN20060202_002820_000000422044_00431_20525_7818.N1	02-FEB-2006 00:28:20	Twilight	42.000	167	10Gam2Sgr	2.9840	4500.0	84	20525	No
6	GOM_NL__2PRFIN20060202_003042_000000402044_00431_20525_7819.N1	02-FEB-2006 00:30:42	Dark	39.500	25	35Lam Sco	1.6200	28000.	79	20525	No
7	GOM_NL__2PRFIN20060202_003209_000000432044_00431_20525_7820.N1	02-FEB-2006 00:32:09	Dark	42.500	40	The Sco	1.8590	7100.0	85	20525	No
8	GOM_NL__2PRFIN20060202_003402_000000372044_00431_20525_7821.N1	02-FEB-2006 00:34:02	Dark	37.000	147	Alp Ara	2.8770	26000.	74	20525	No
9	GOM_NL__2PRFIN20060202_003535_000000412044_00431_20525_7822.N1	02-FEB-2006 00:35:35	Dark	41.000	141	Bet Ara	2.8400	4600.0	82	20525	No
10	GOM_NL__2PRFIN20060202_003927_000000422044_00432_20526_7795.N1	02-FEB-2006 00:39:27	Dark	42.000	43	Alp TrA	1.9100	4250.0	84	20526	No
11	GOM_NL__2PRFIN20060202_004058_000000542044_00432_20526_7796.N1	02-FEB-2006 00:40:58	Dark	53.500	4	Alp1Cen	-0.010000	5800.0	107	20526	No
12	GOM_NL__2PRFIN20060202_004533_000000412044_00432_20526_7797.N1	02-FEB-2006 00:45:33	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	20526	No
13	GOM_NL__2PRFIN20060202_004901_000000462044_00432_20526_7798.N1	02-FEB-2006 00:49:01	Dark	45.500	29	Bet Car	1.6720	10200.	91	20526	No
14	GOM_NL__2PRFIN20060202_005124_000000412044_00432_20526_7799.N1	02-FEB-2006 00:51:24	Dark	41.000	71	lot Car	2.2460	7700.0	82	20526	No
15	GOM_NL__2PRFIN20060202_005308_000000422044_00432_20526_7800.N1	02-FEB-2006 00:53:08	Dark	41.500	46	Del Vel	1.9540	10600.	83	20526	No
16	GOM_NL__2PRFIN20060202_005539_000000402044_00432_20526_7801.N1	02-FEB-2006 00:55:39	Dark	40.000	34	Gam2Vel	1.7930	23000.	80	20526	No
17	GOM_NL__2PRFIN20060202_005744_000000382044_00432_20526_7802.N1	02-FEB-2006 00:57:44	Straylight	37.500	70	Zet Pup	2.2460	39000.	75	20526	No
18	GOM_NL__2PRFIN20060202_005905_000000412044_00432_20526_7803.N1	02-FEB-2006 00:59:05	Straylight	41.000	117	Pi Pup	2.7060	3800.0	82	20526	No
19	GOM_NL__2PRFIN20060202_010132_000000402044_00432_20526_7804.N1	02-FEB-2006 01:01:32	Straylight	40.000	23	21Eps CMa	1.5020	26000.	80	20526	No
20	GOM_NL__2PRFIN20060202_010254_000000382044_00432_20526_7805.N1	02-FEB-2006 01:02:54	Straylight	38.000	179	24Omi2CMa	3.0320	24000.	76	20526	No
21	GOM_NL__2PRFIN20060202_010504_000000462044_00432_20526_7806.N1	02-FEB-2006 01:05:04	Straylight	45.500	1	9Alp CMa	-1.4400	11000.	91	20526	No
22	GOM_NL__2PRFIN20060202_011048_000000502044_00432_20526_7807.N1	02-FEB-2006 01:10:48	Twilight_and_stray	49.500	8	10Alp CMi	0.40000	6500.0	99	20526	No
23	GOM_NL__2PRFIN20060202_011417_000000382044_00432_20526_7808.N1	02-FEB-2006 01:14:17	Bright	37.500	44	24Gam Gem	1.9280	11000.	75	20526	No
24	GOM_NL__2PRFIN20060202_011608_000000402044_00432_20526_7809.N1	02-FEB-2006 01:16:08	Bright	39.500	151	13Mu Gem	2.8900	3000.0	79	20526	No
25	GOM_NL__2PRFIN20060202_011830_000000392044_00432_20526_7810.N1	02-FEB-2006 01:18:30	Bright	38.500	24	66Alp Gem	1.5800	10200.	77	20526	No
26	GOM_NL__2PRFIN20060202_012027_000000352044_00432_20526_7811.N1	02-FEB-2006 01:20:27	Bright	35.000	107	37The Aur	2.6490	11000.	70	20526	No
27	GOM_NL__2PRFIN20060202_012231_000000362044_00432_20526_7812.N1	02-FEB-2006 01:22:31	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	20526	No
28	GOM_NL__2PRFIN20060202_013443_000000352044_00432_20526_7813.N1	02-FEB-2006 01:34:43	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	20526	No
29	GOM_NL__2PRFIN20060202_014556_000000392044_00432_20526_7814.N1	02-FEB-2006 01:45:56	Bright	38.500	69	33Gam Dra	2.2310	3800.0	77	20526	No
30	GOM_NL__2PRFIN20060202_014922_000000362044_00432_20526_7815.N1	02-FEB-2006 01:49:22	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	20526	No
31	GOM_NL__2PRFIN20060202_015602_000000512044_00432_20526_7816.N1	02-FEB-2006 01:56:02	Bright	51.000	168	17Zet Aql	2.9860	11000.	102	20526	No
32	GOM_NL__2PRFIN20060202_015945_000000382044_00432_20526_7817.N1	02-FEB-2006 01:59:45	Bright	38.000	126	60Bet Oph	2.7700	4250.0	76	20526	No
33	GOM_NL__2PRFIN20060202_020856_000000422044_00432_20526_7818.N1	02-FEB-2006 02:08:56	Twilight	41.500	167	10Gam2Sgr	2.9840	4500.0	83	20526	No
34	GOM_NL__2PRFIN20060202_021118_000000372044_00432_20526_7819.N1	02-FEB-2006 02:11:18	Dark	36.500	25	35Lam Sco	1.6200	28000.	73	20526	No
35	GOM_NL__2PRFIN20060202_021245_000000372044_00432_20526_7820.N1	02-FEB-2006 02:12:45	Dark	37.000	40	The Sco	1.8590	7100.0	74	20526	No
36	GOM_NL__2PRFIN20060202_021438_000000362044_00432_20526_7821.N1	02-FEB-2006 02:14:38	Dark	36.000	147	Alp Ara	2.8770	26000.	72	20526	No
37	GOM_NL__2PRFIN20060202_021611_000000412044_00432_20526_7822.N1	02-FEB-2006 02:16:11	Dark	40.500	141	Bet Ara	2.8400	4600.0	81	20526	No
38	GOM_NL__2PRFIN20060202_022003_000000392044_00433_20527_7796.N1	02-FEB-2006 02:20:03	Dark	39.000	43	Alp TrA	1.9100	4250.0	78	20527	No
39	GOM_NL__2PRFIN20060202_022134_000000412044_00433_20527_7797.N1	02-FEB-2006 02:21:34	Dark	41.000	4	Alp1Cen	-0.010000	5800.0	82	20527	No
40	GOM_NL__2PRFIN20060202_022610_000000382044_00433_20527_7798.N1	02-FEB-2006 02:26:10	Dark	37.500	12	Alp1Cru	0.77500	30000.	75	20527	No
41	GOM_NL__2PRFIN20060202_022937_000000382044_00433_20527_7799.N1	02-FEB-2006 02:29:37	Dark	38.000	29	Bet Car	1.6720	10200.	76	20527	No
42	GOM_NL__2PRFIN20060202_023200_000000372044_00433_20527_7800.N1	02-FEB-2006 02:32:00	Dark	37.000	71	lot Car	2.2460	7700.0	74	20527	No

3. Quality information per product

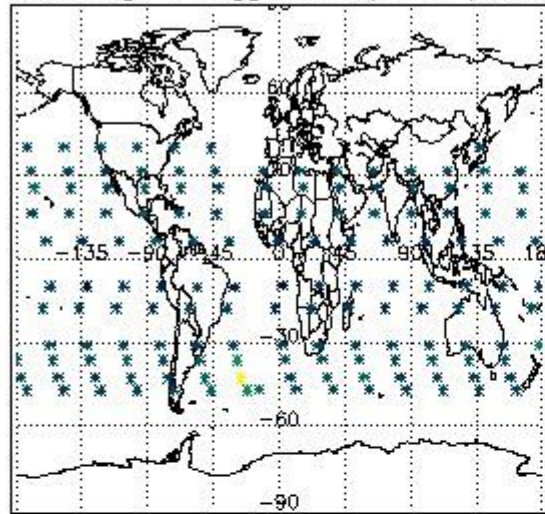
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

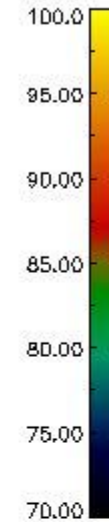
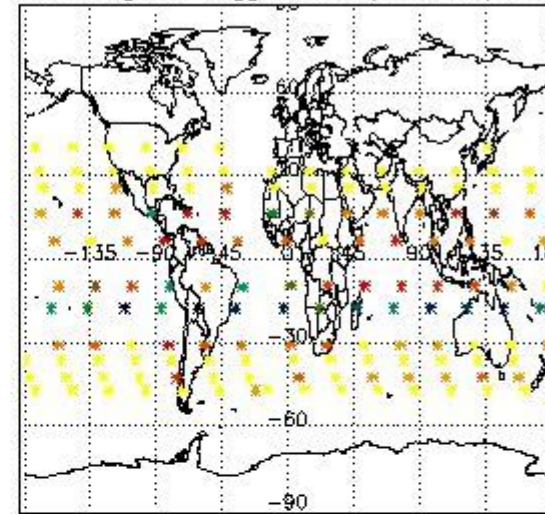


3.2 Plot quality information per product (world map)

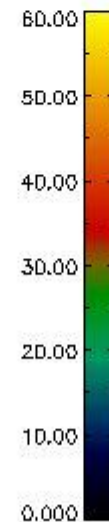
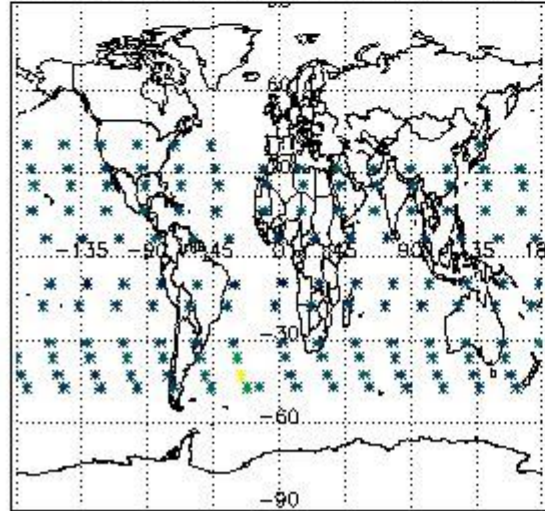
Percentage of flagged data per O3 profile



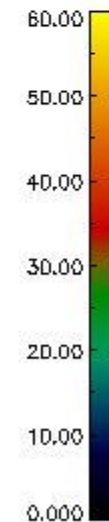
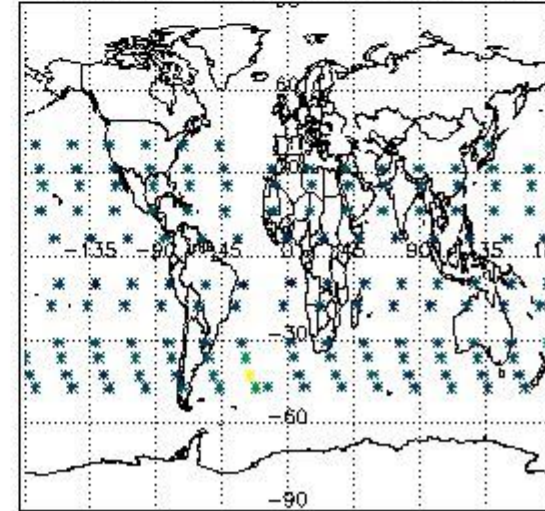
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

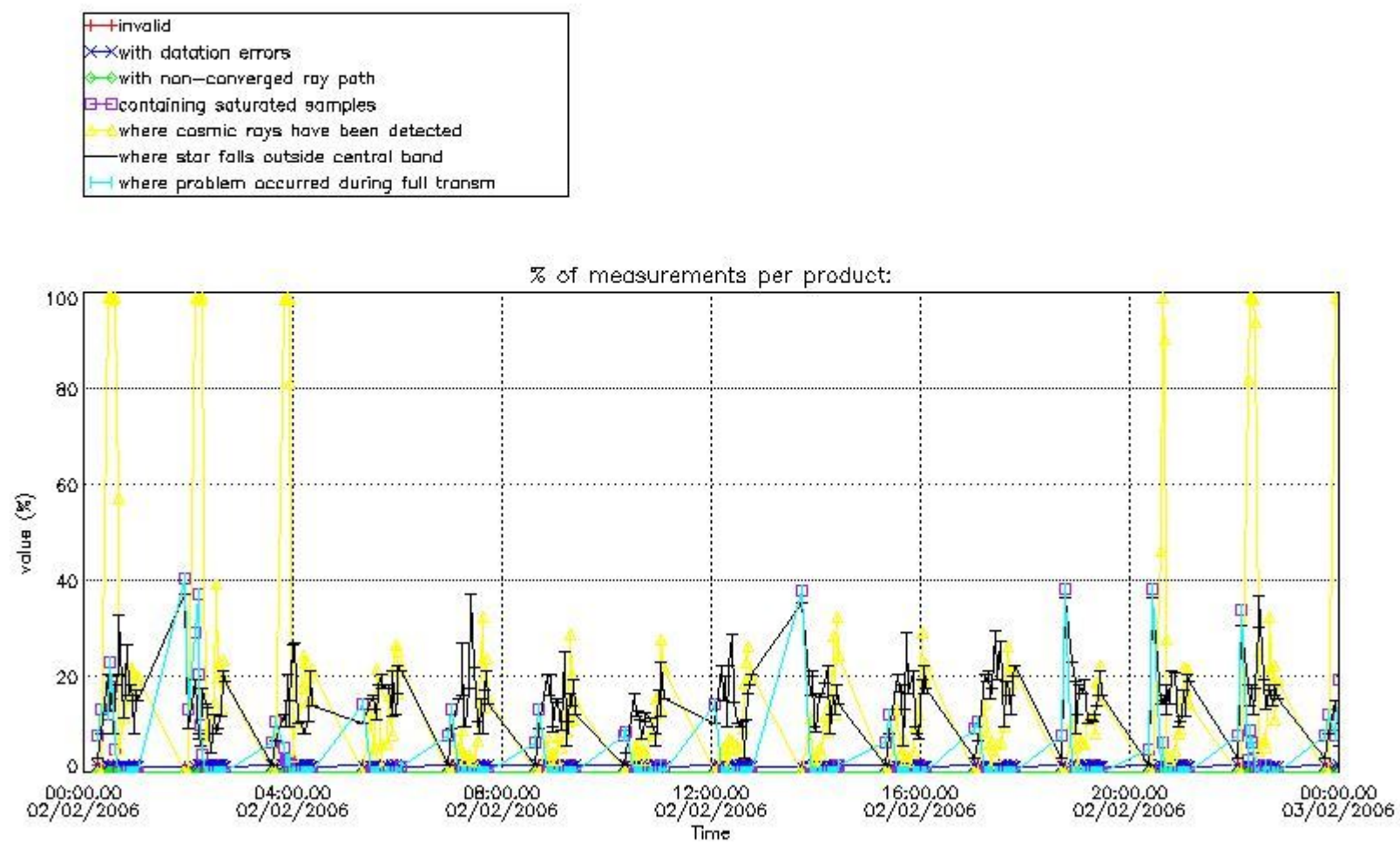


4. Level 1 quality information per product

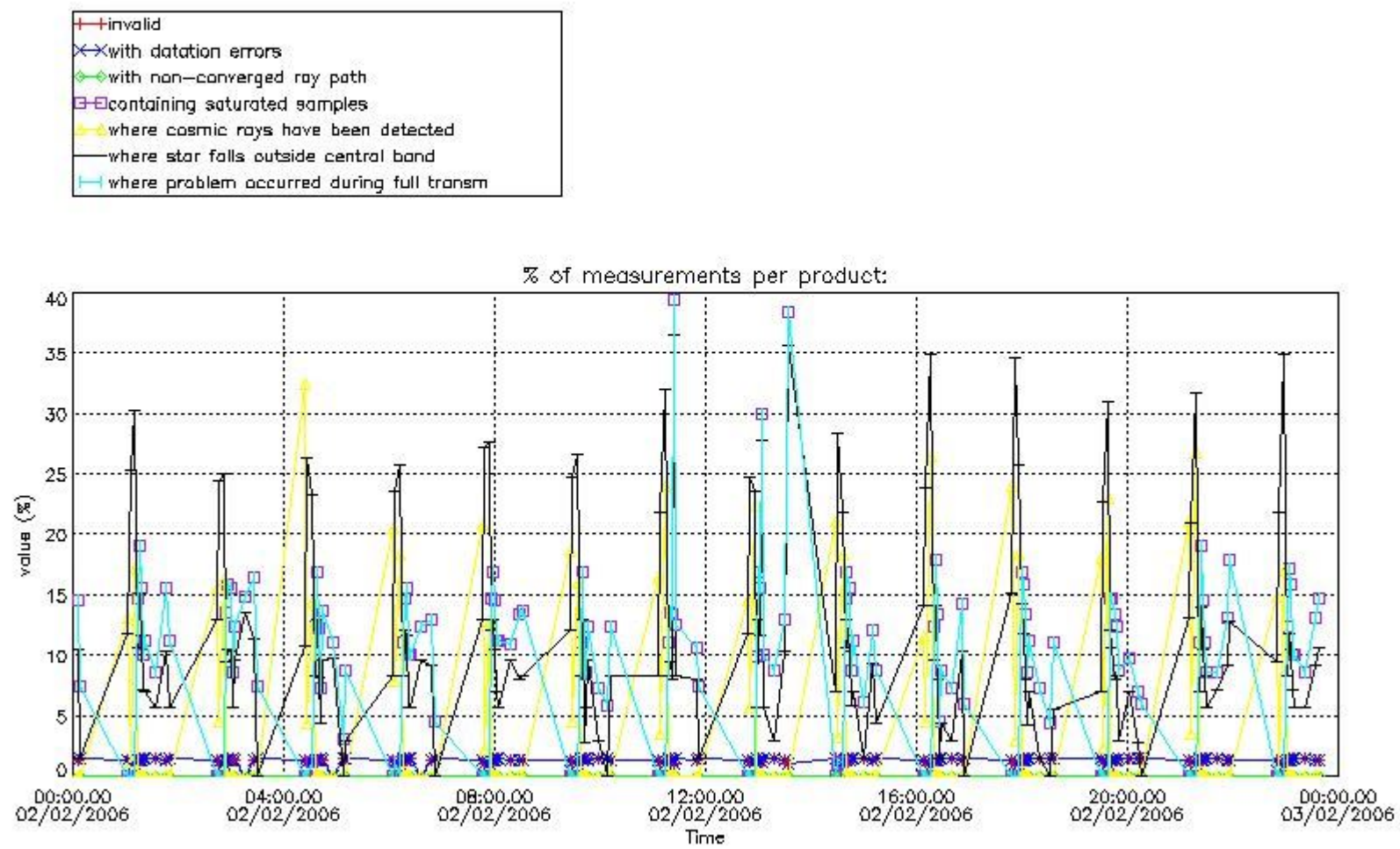
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

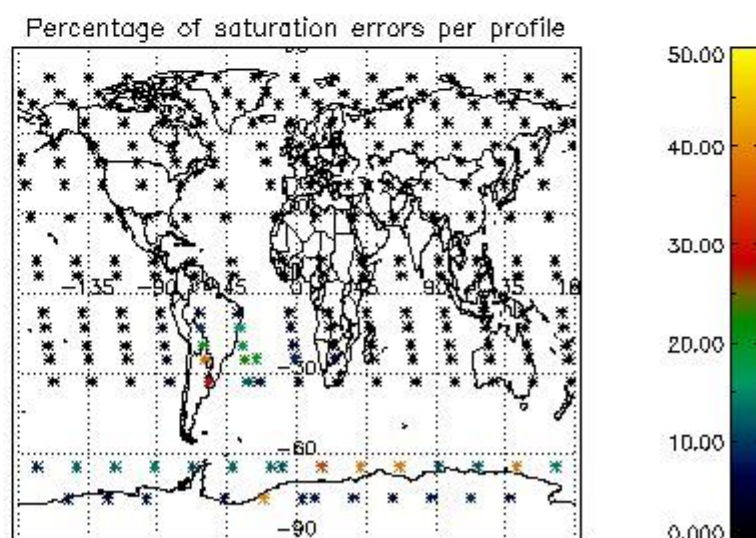
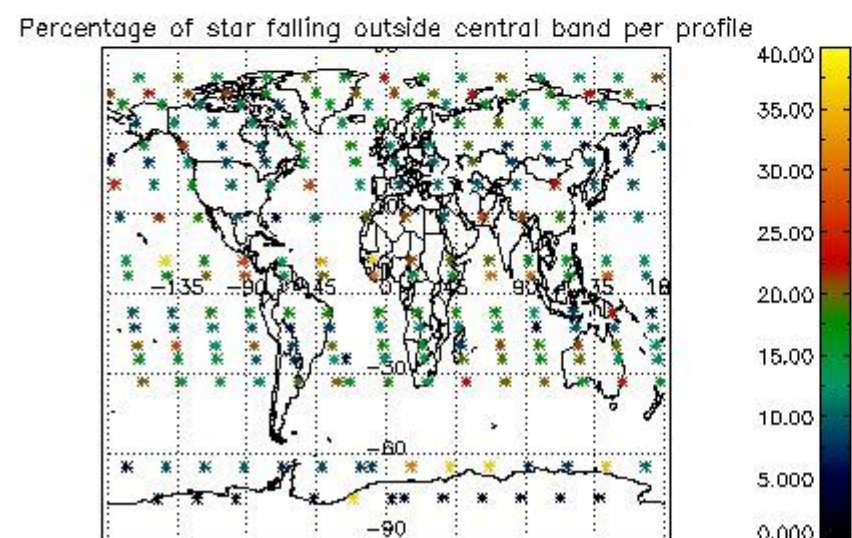
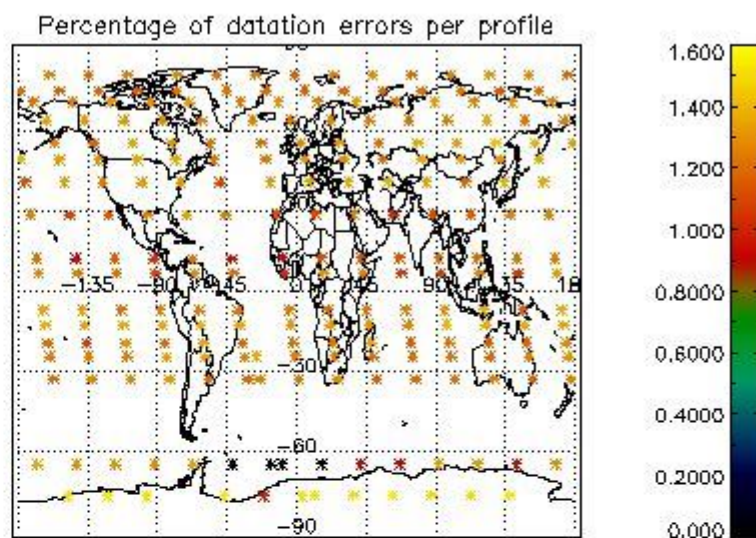
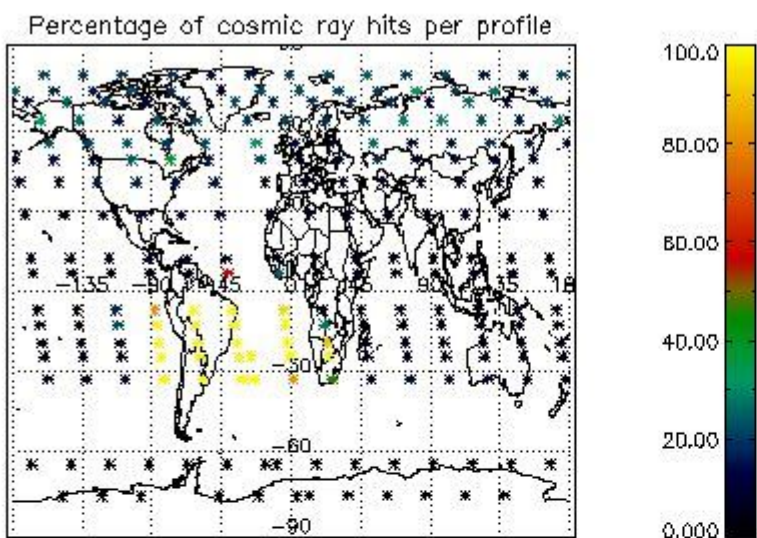


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

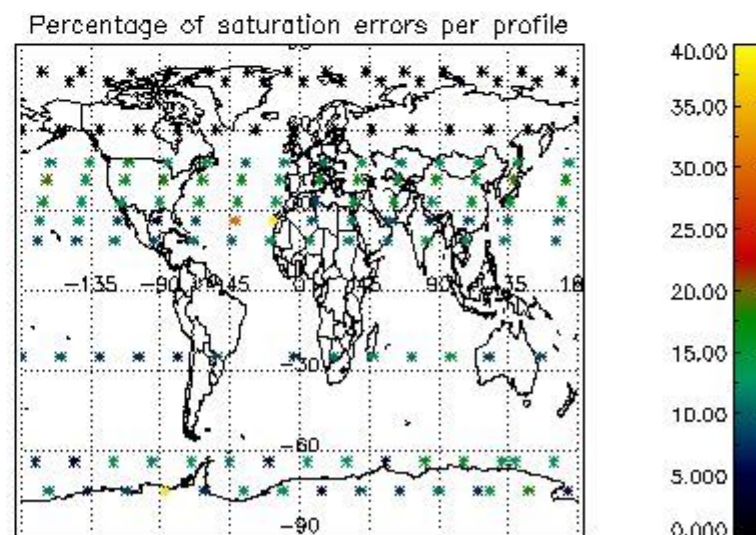
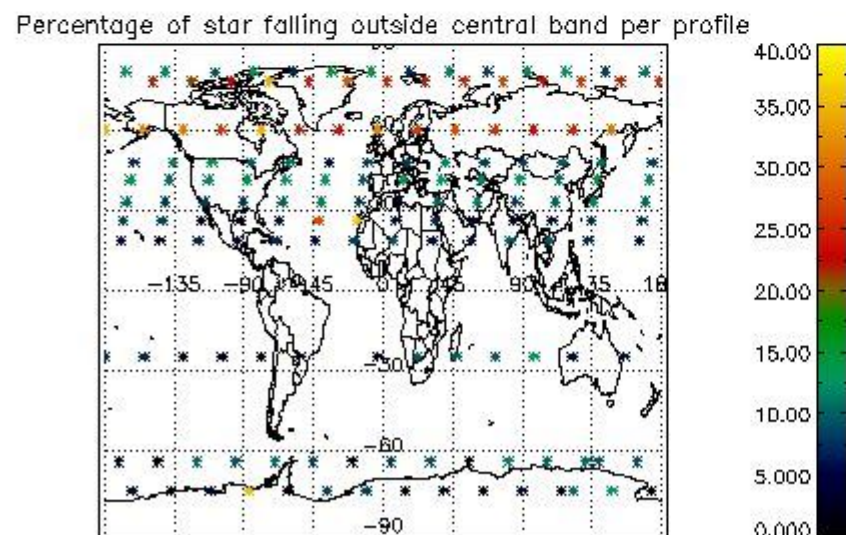
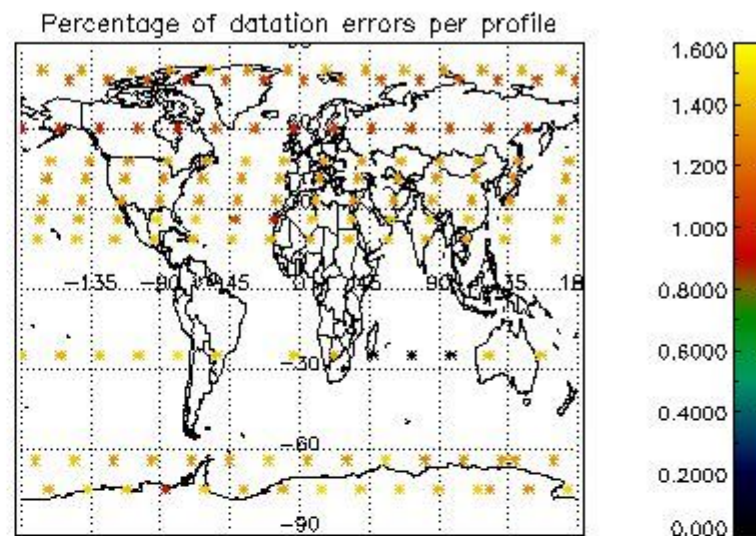
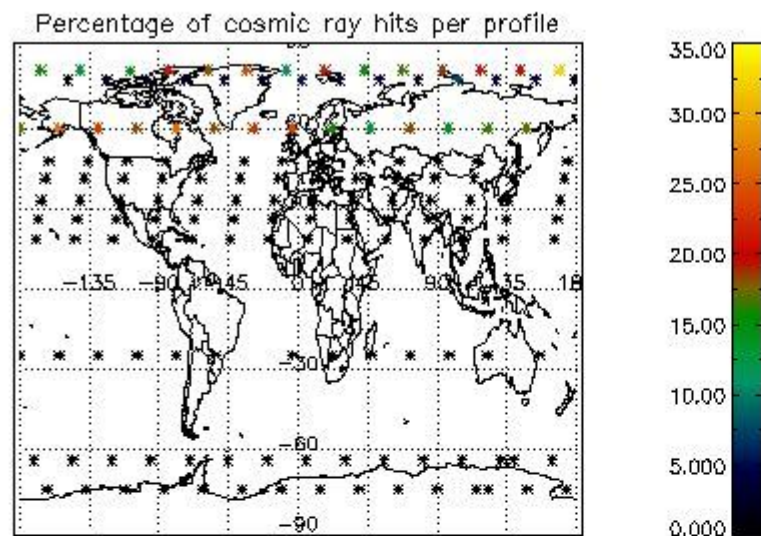


4.2 Plot quality information per product coming from level 1b processing (world map)

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

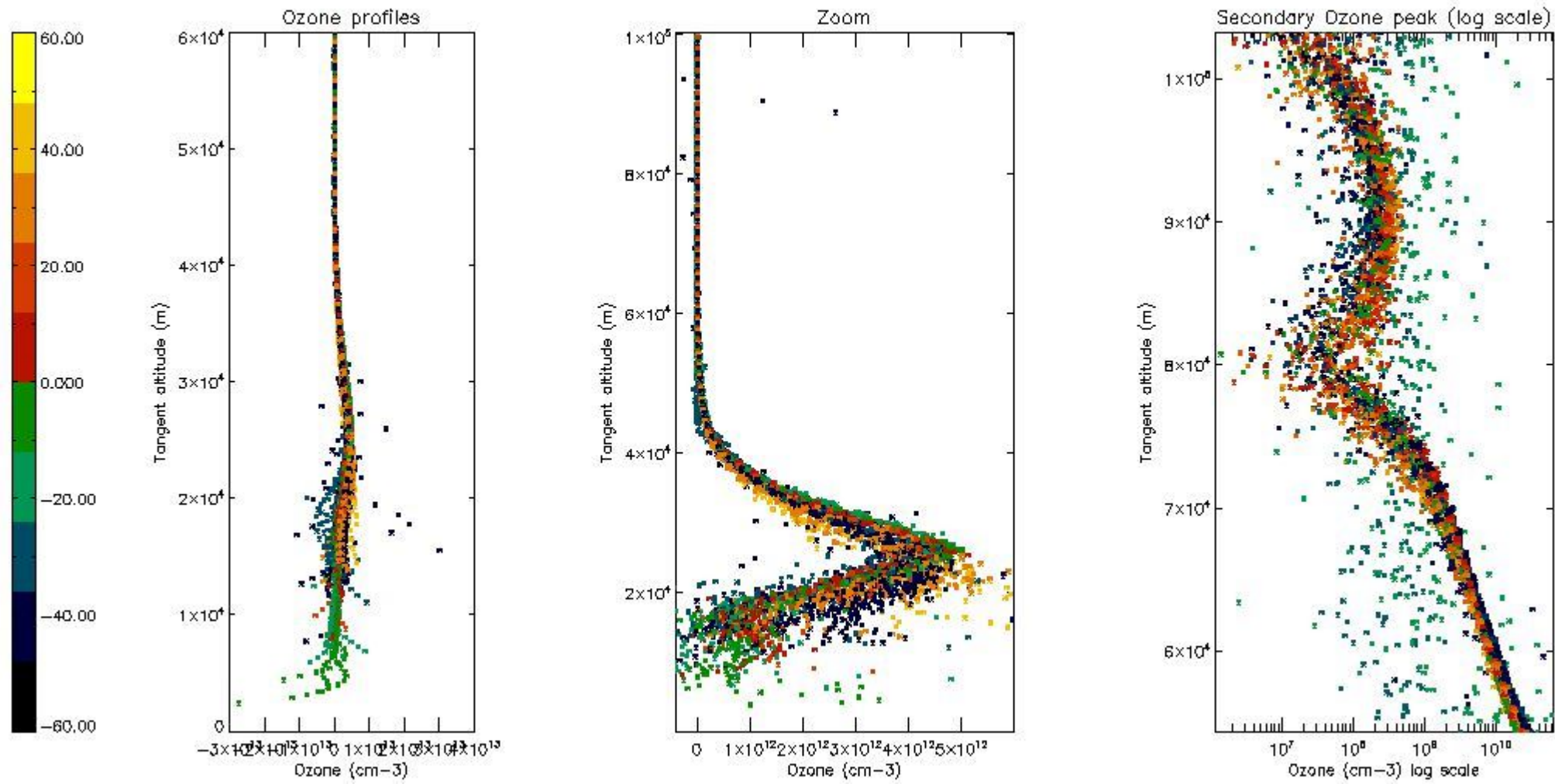
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	39
STD < 20	21

STD < 10	18
STD < 5	11

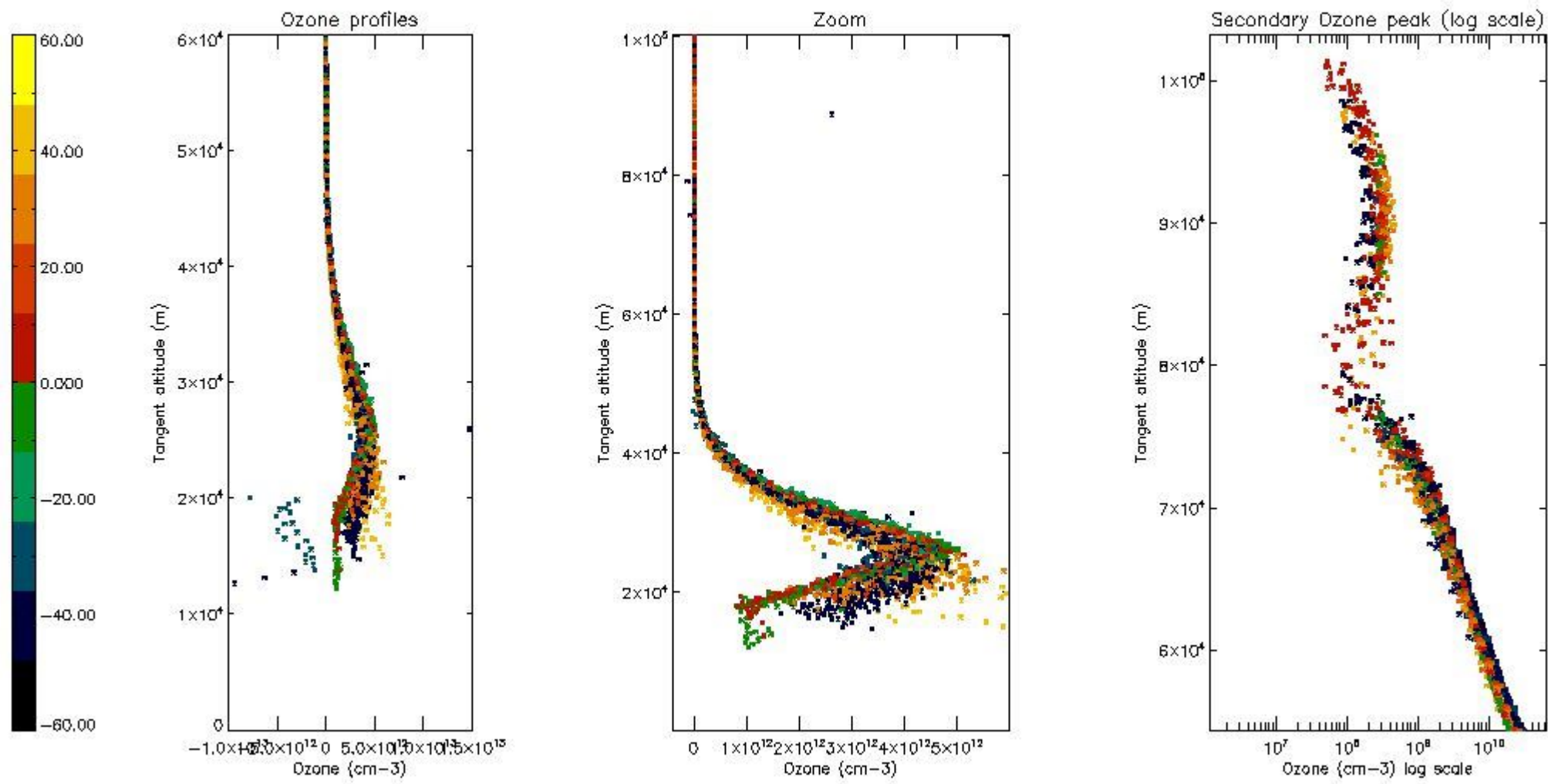
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



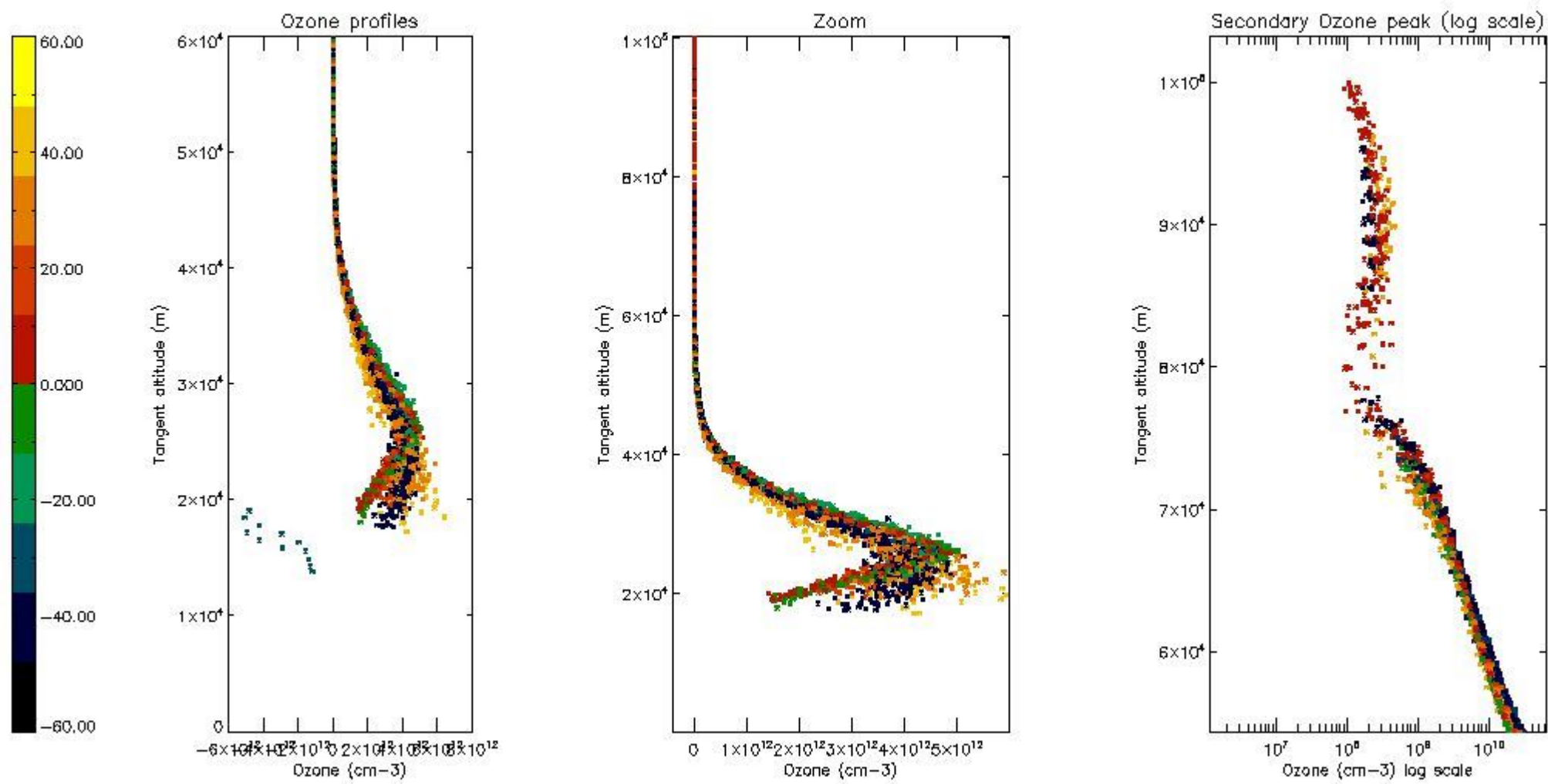
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



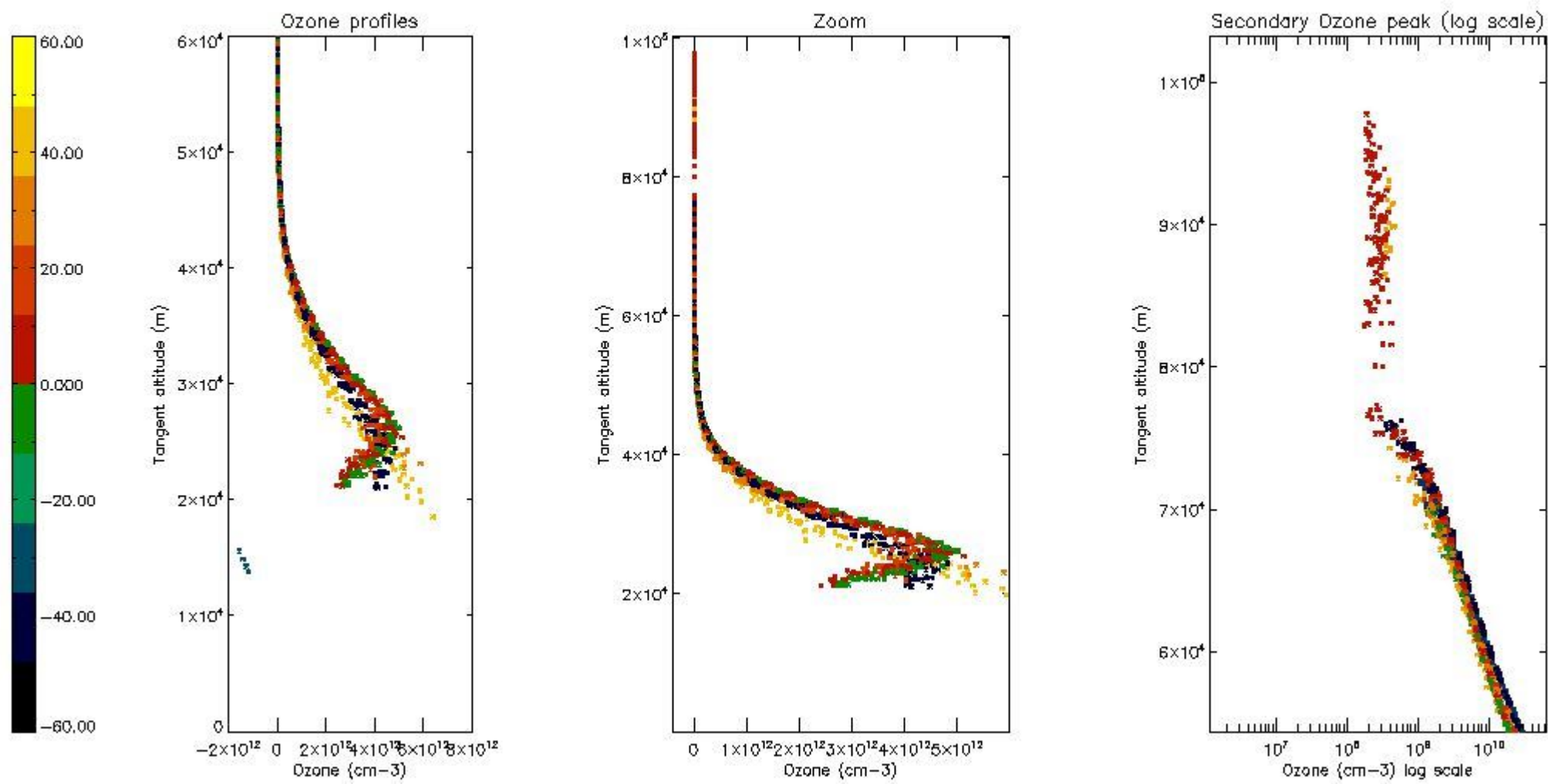
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



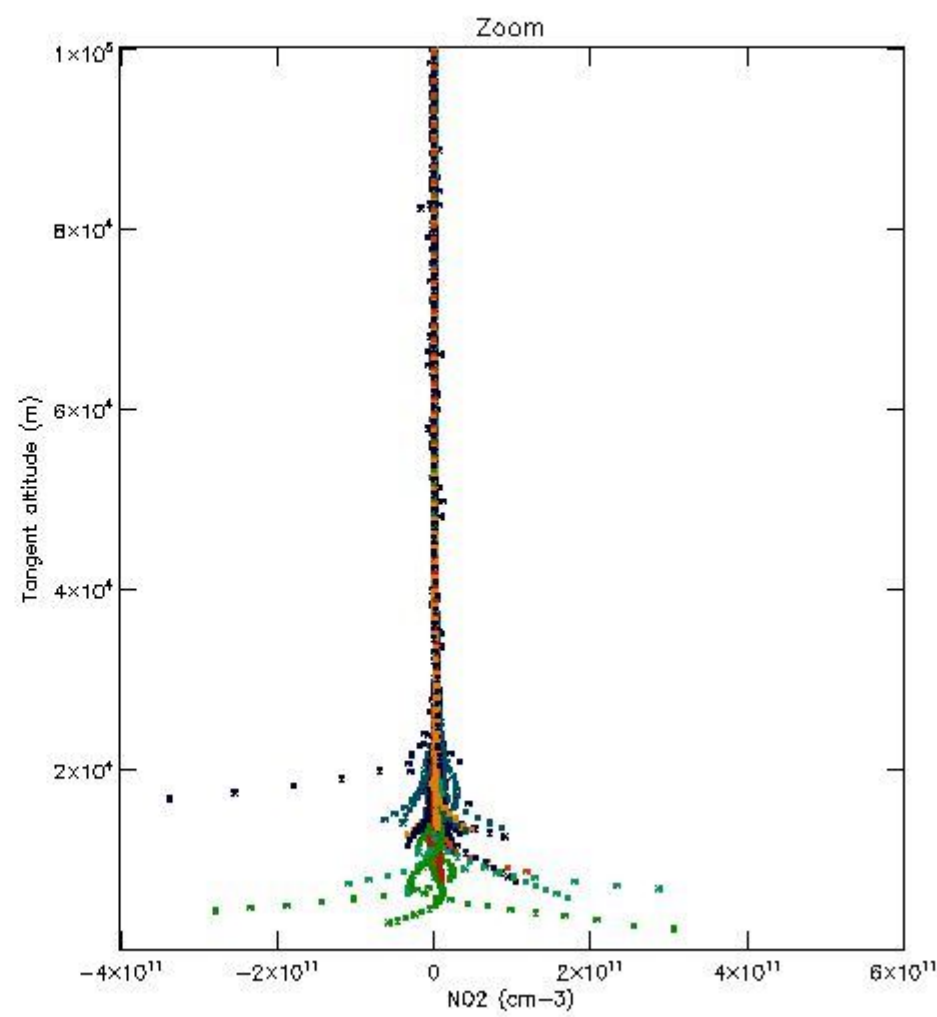
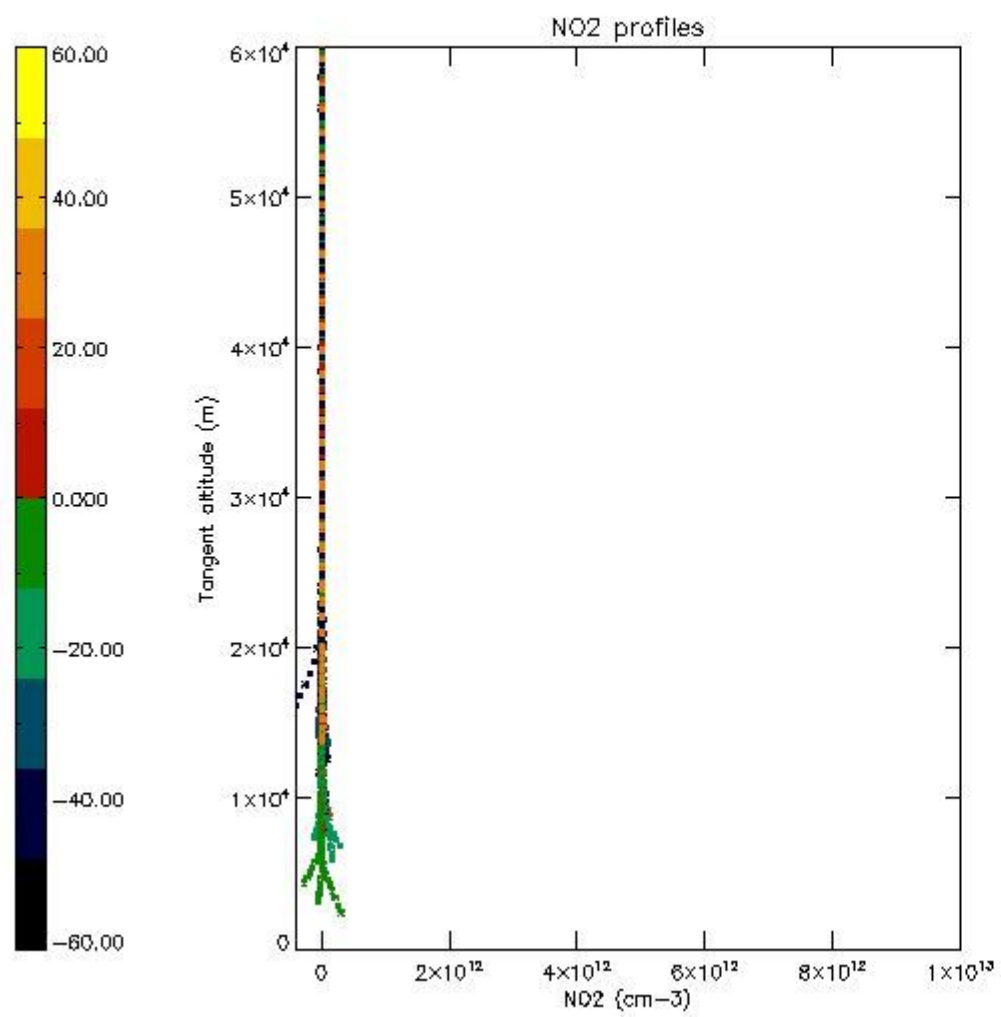
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



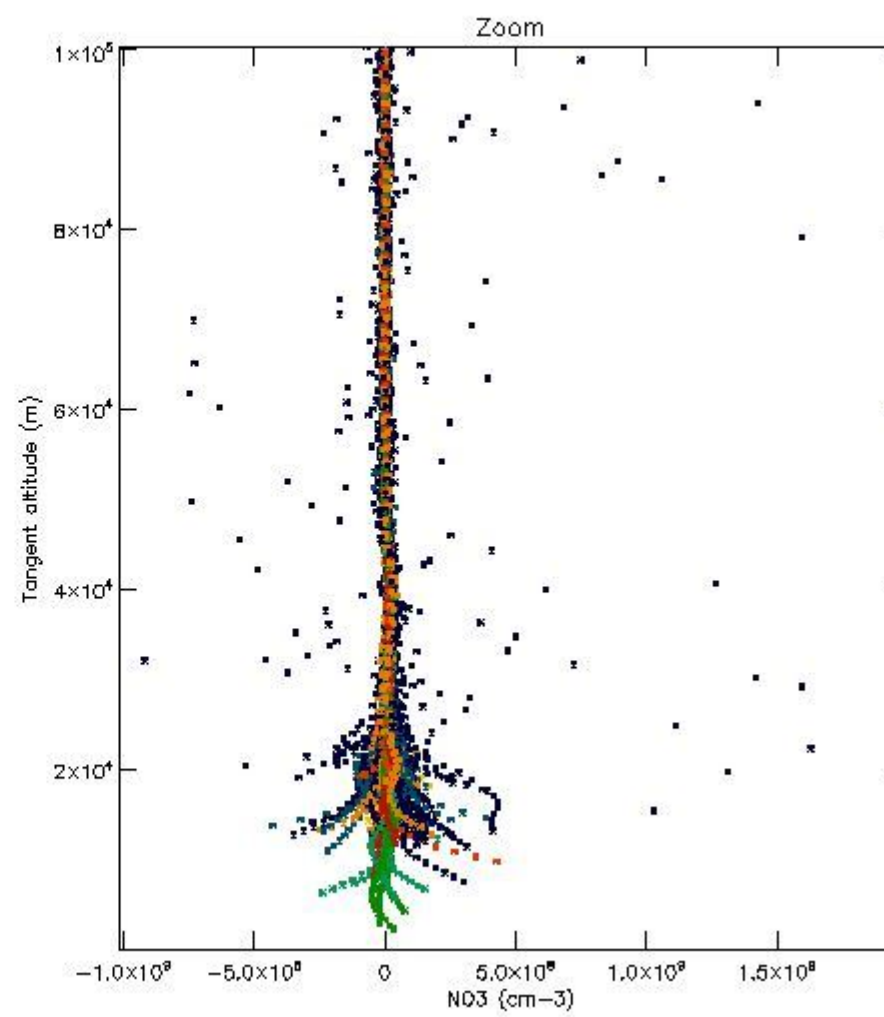
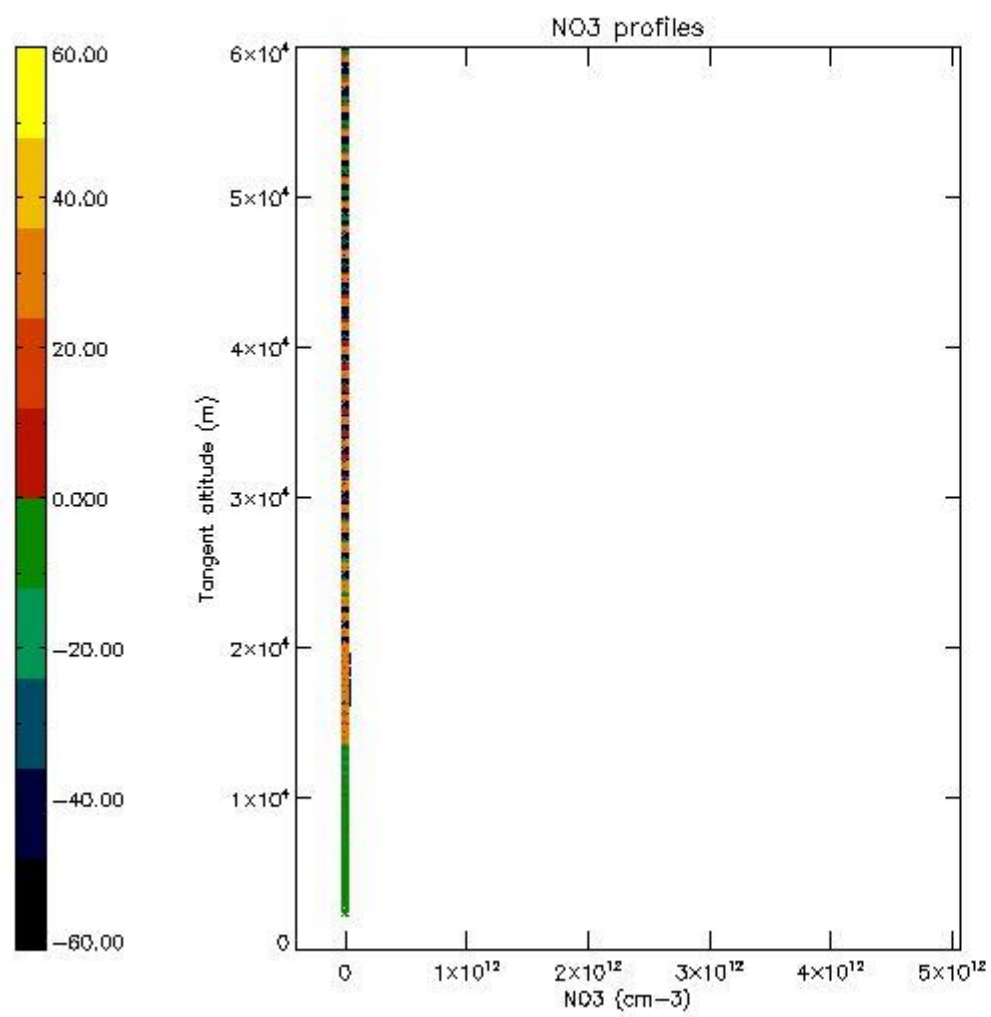
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



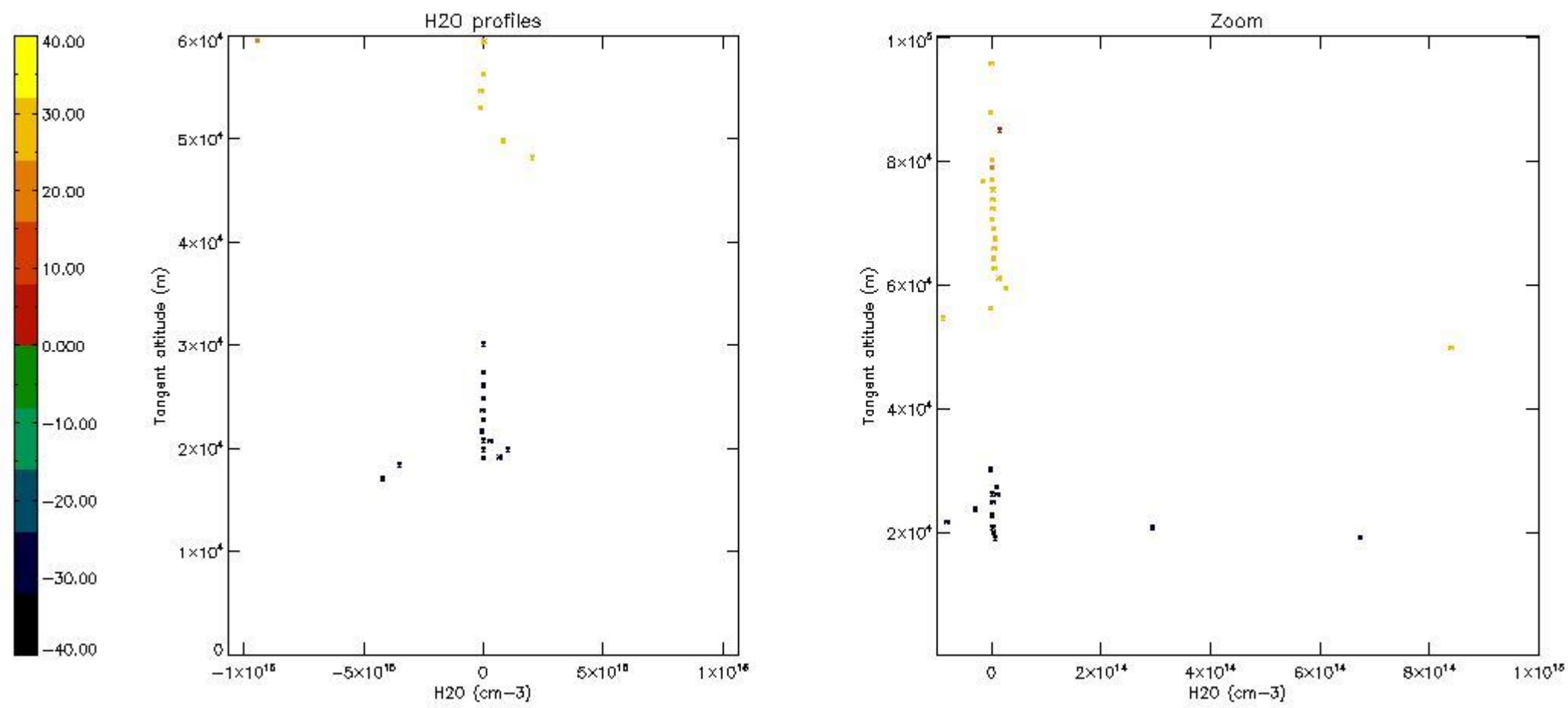
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

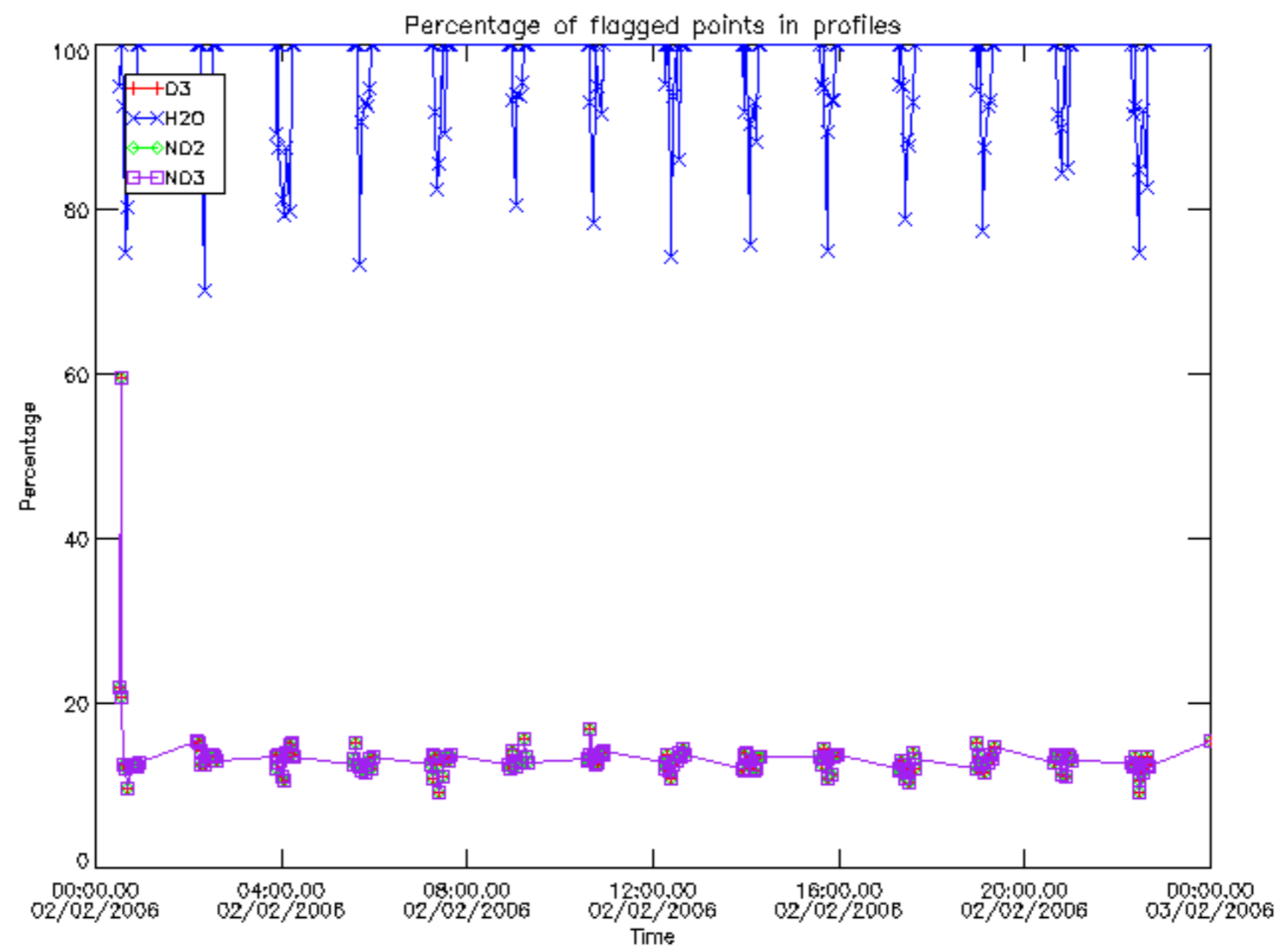
The colorbar represents the latitude.



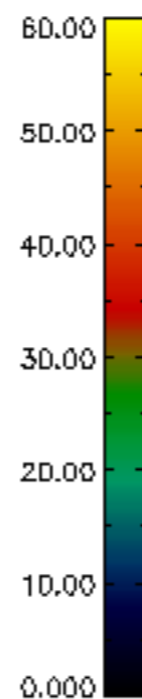
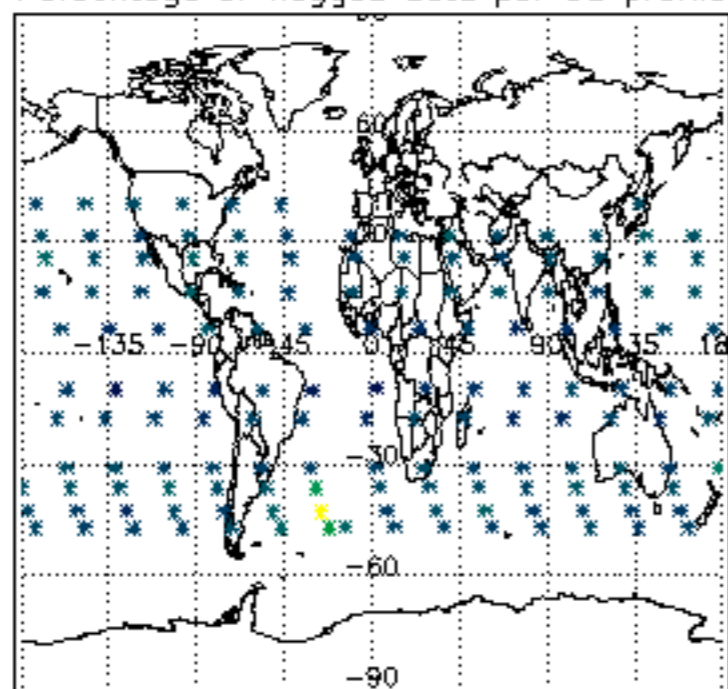
6. Auxiliary Data Files used for the production reported in section 2

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.

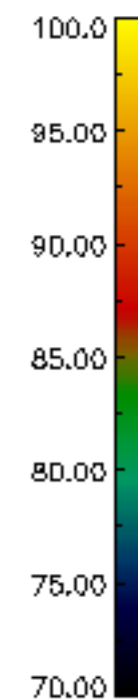
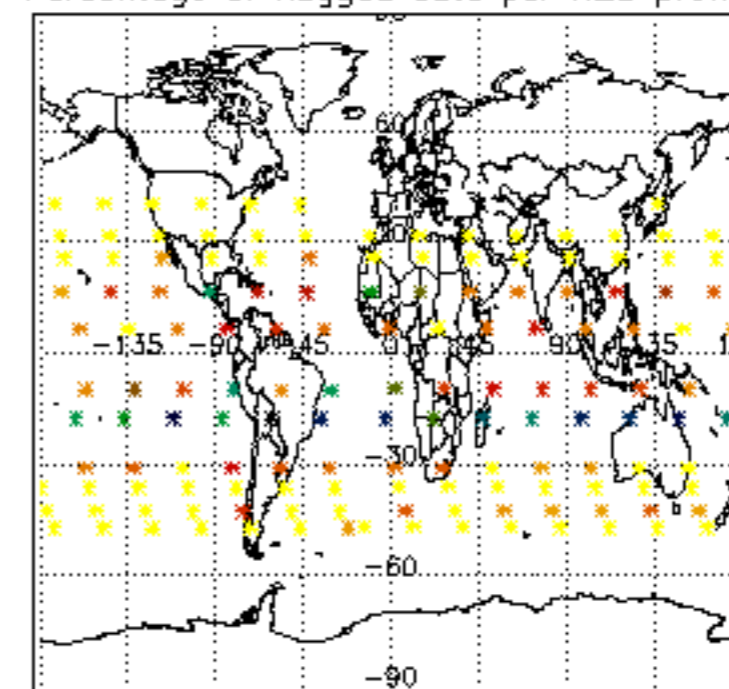
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	02-FEB-2006 00:05:20
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	02-FEB-2006 00:05:20
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	02-FEB-2006 00:05:20



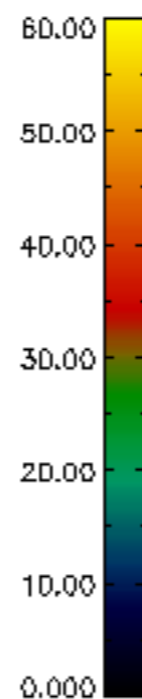
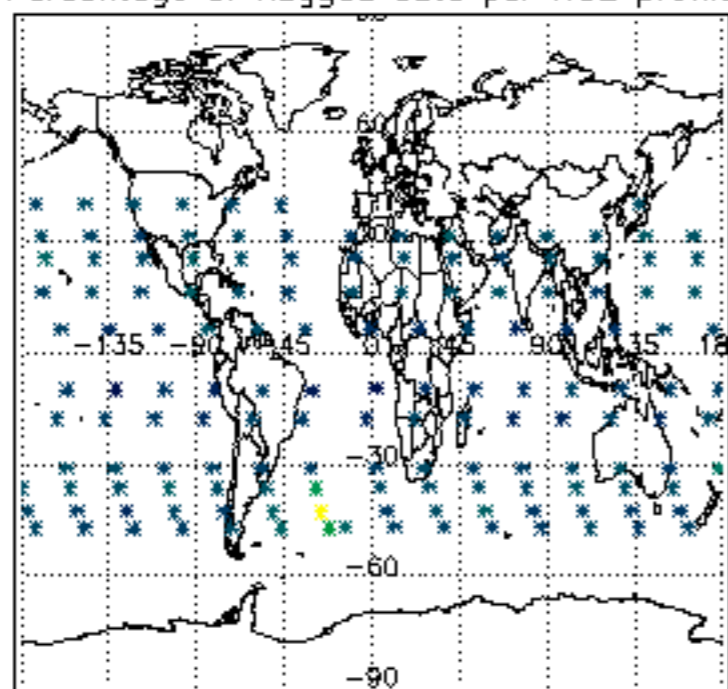
Percentage of flagged data per D3 profile



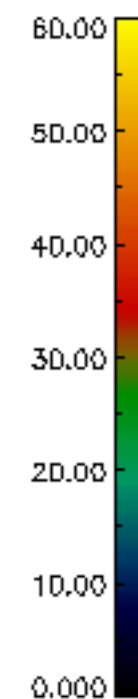
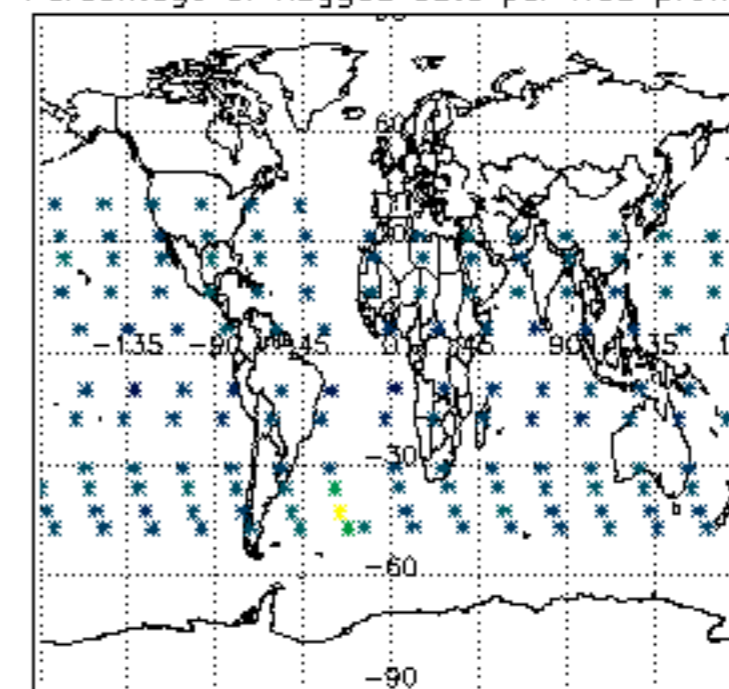
Percentage of flagged data per H2O profile

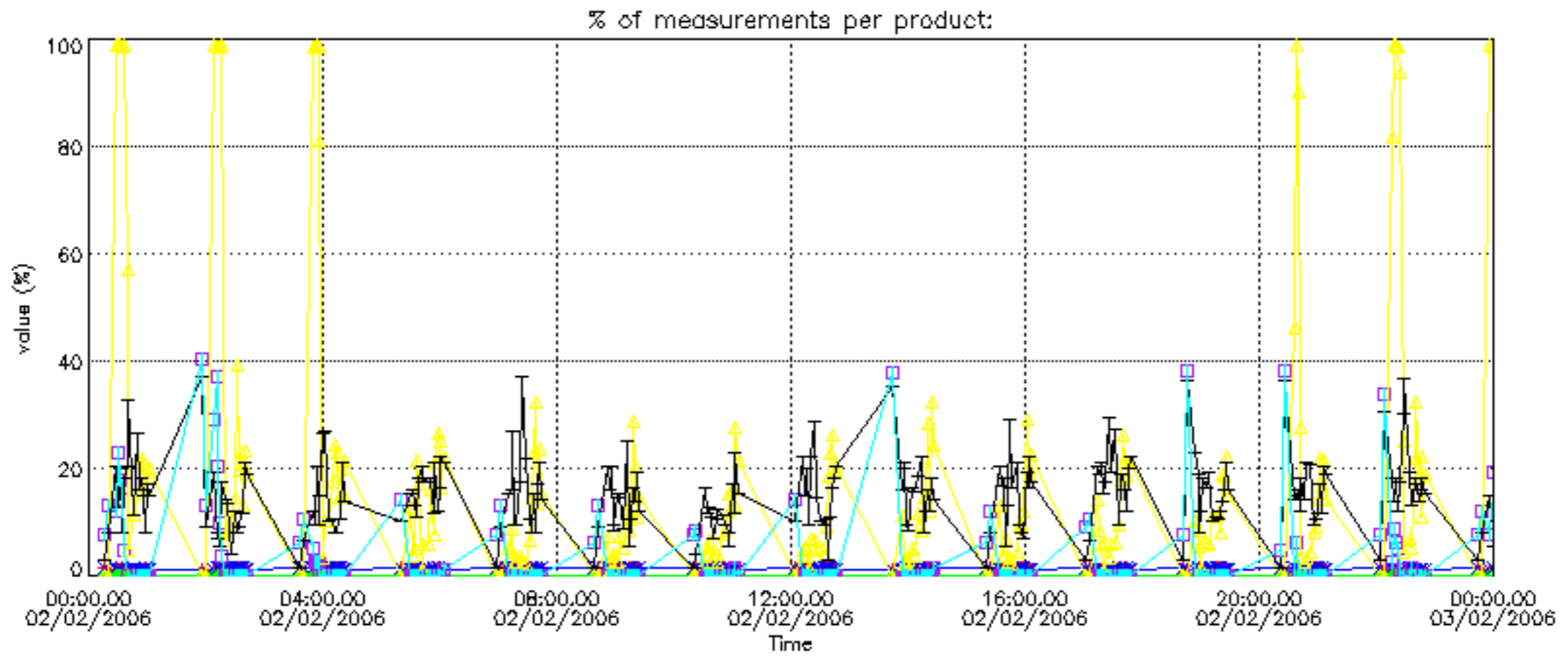


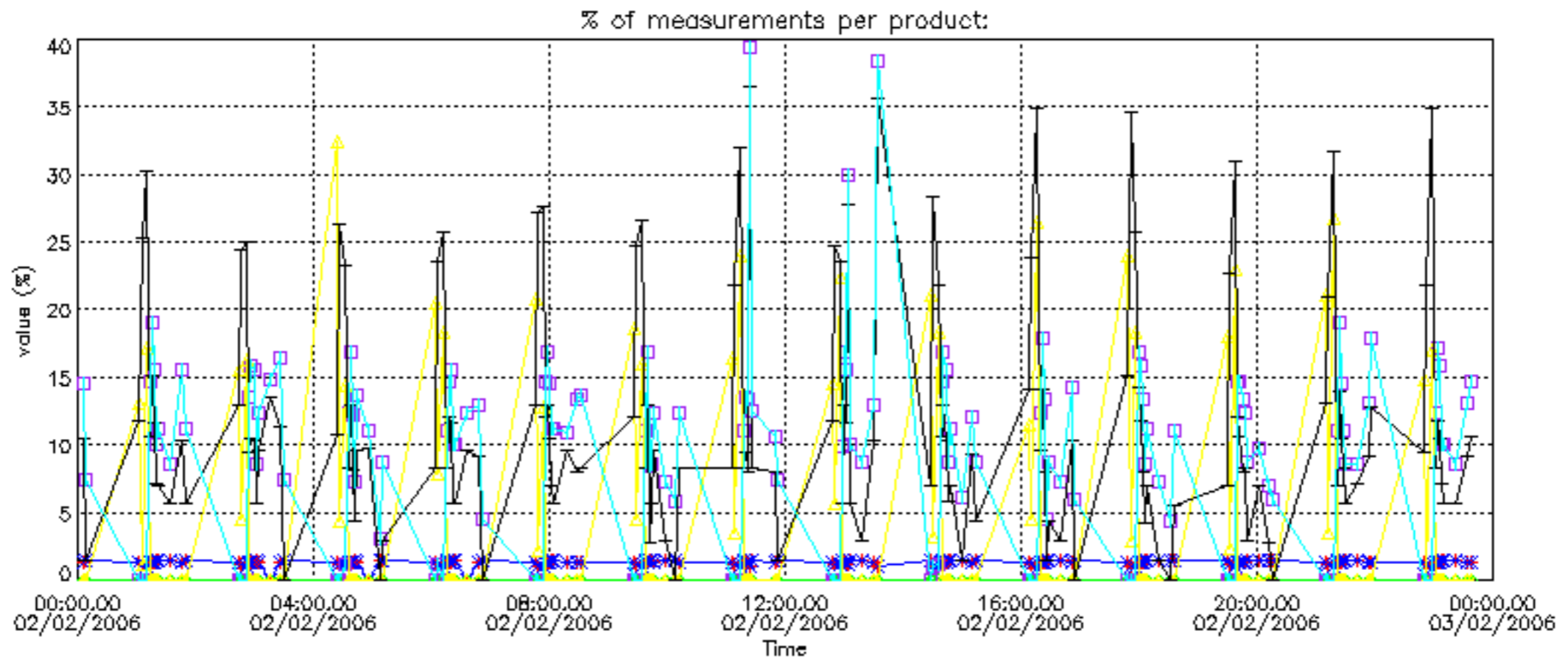
Percentage of flagged data per NO2 profile



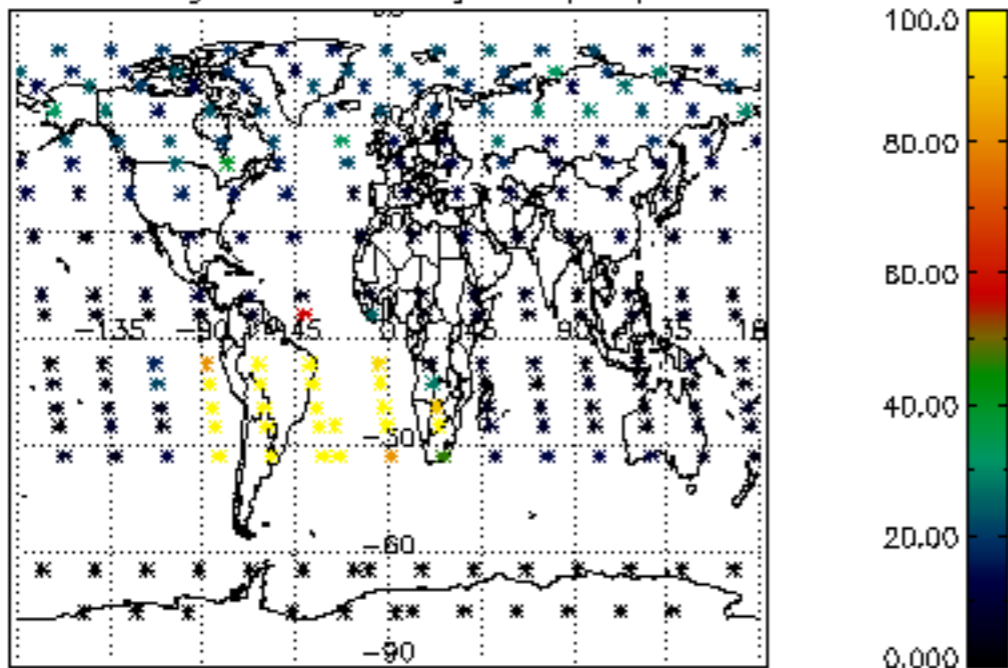
Percentage of flagged data per NO3 profile



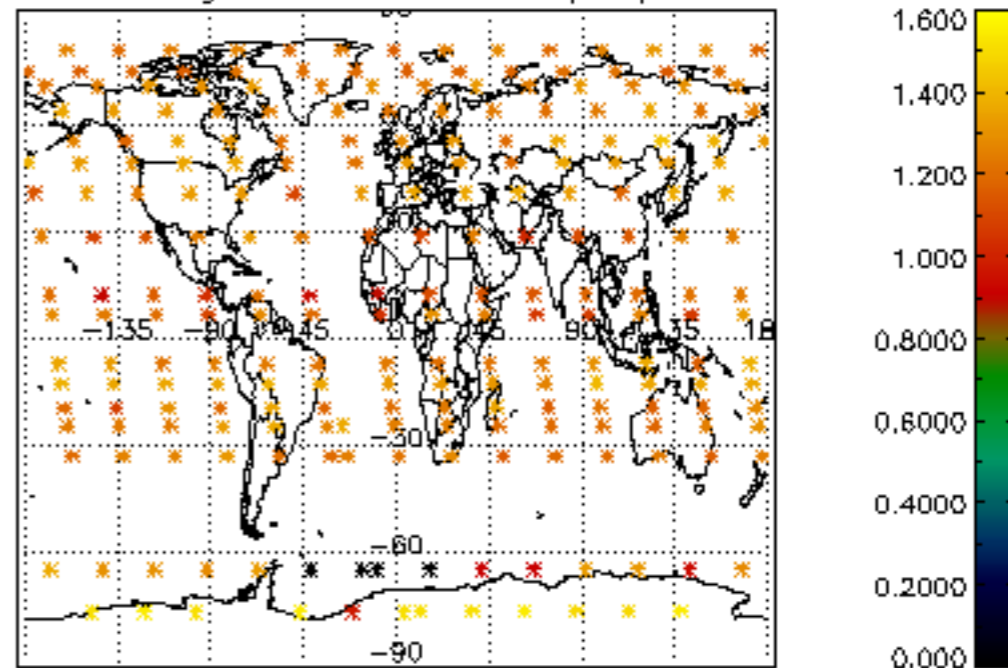




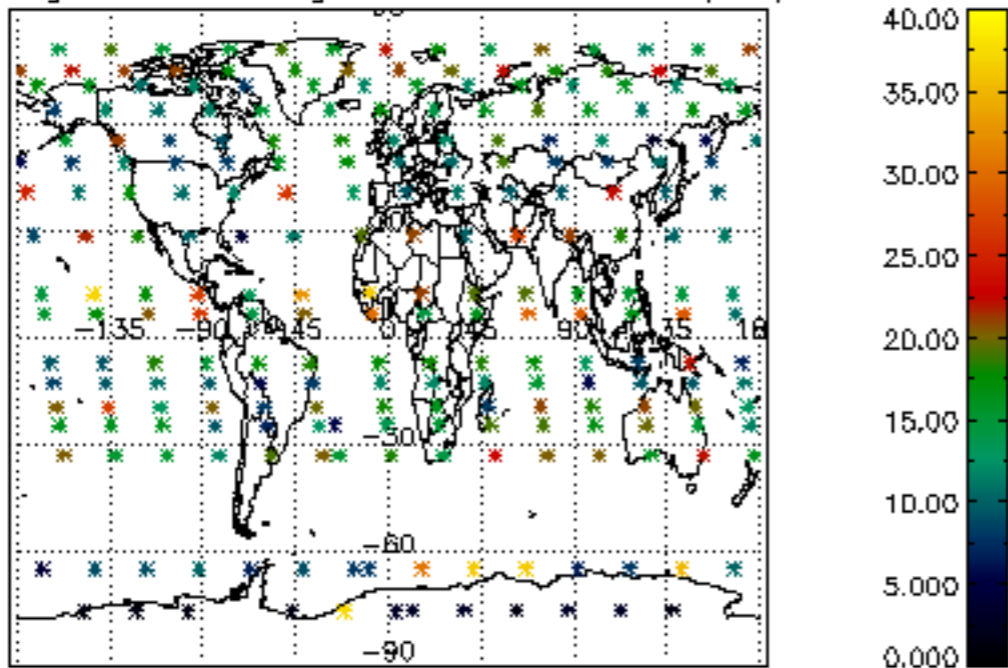
Percentage of cosmic ray hits per profile



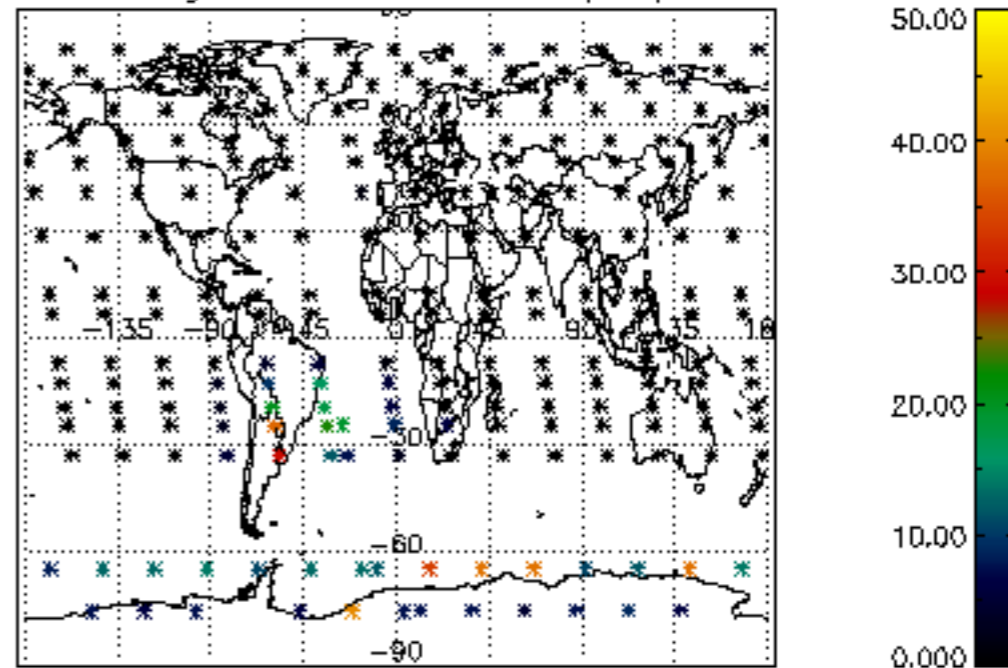
Percentage of datation errors per profile



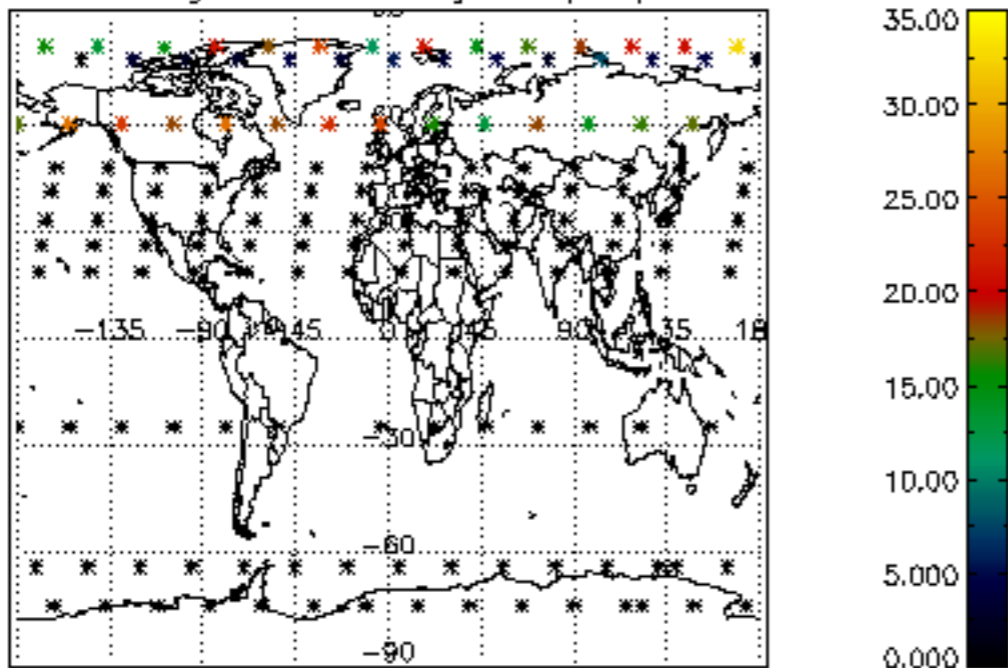
Percentage of star falling outside central band per profile



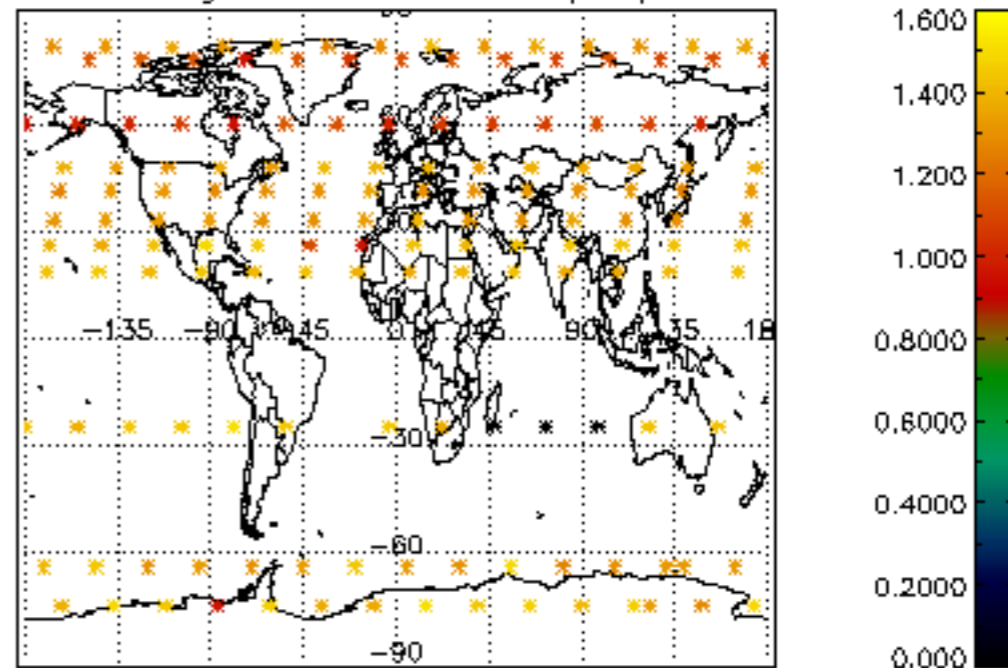
Percentage of saturation errors per profile



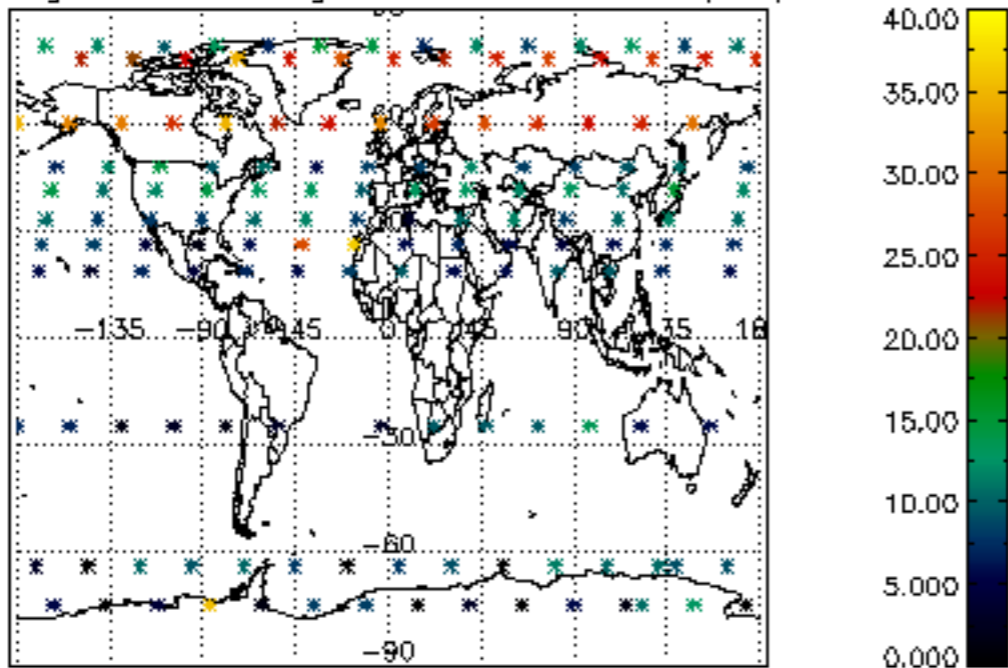
Percentage of cosmic ray hits per profile



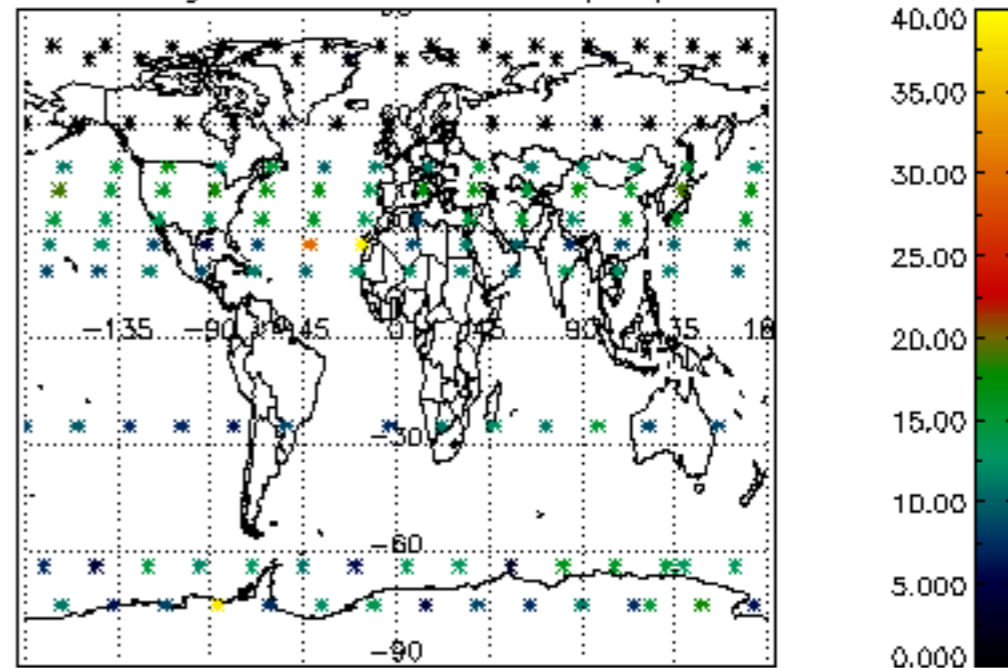
Percentage of datation errors per profile

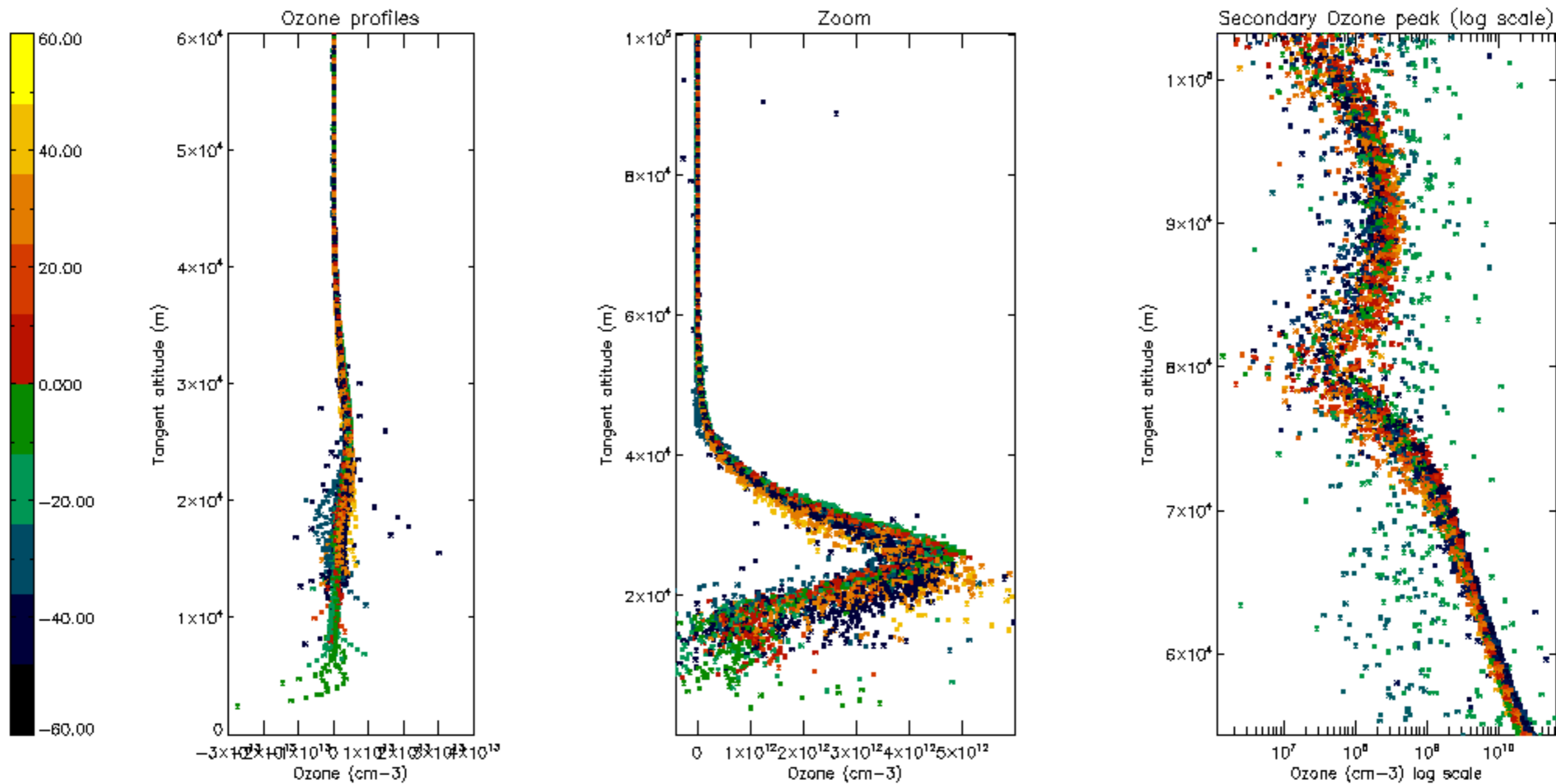


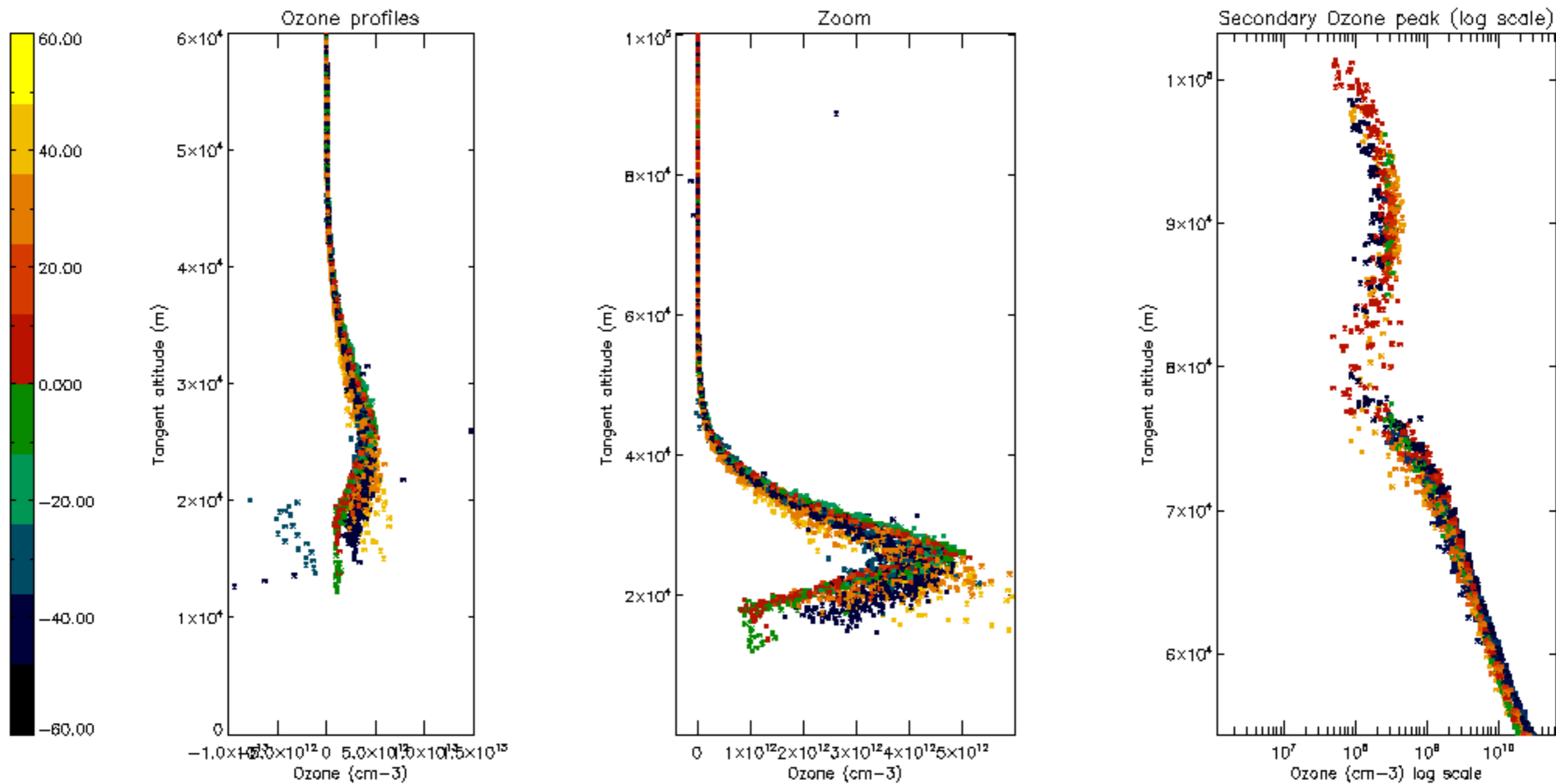
Percentage of star falling outside central band per profile

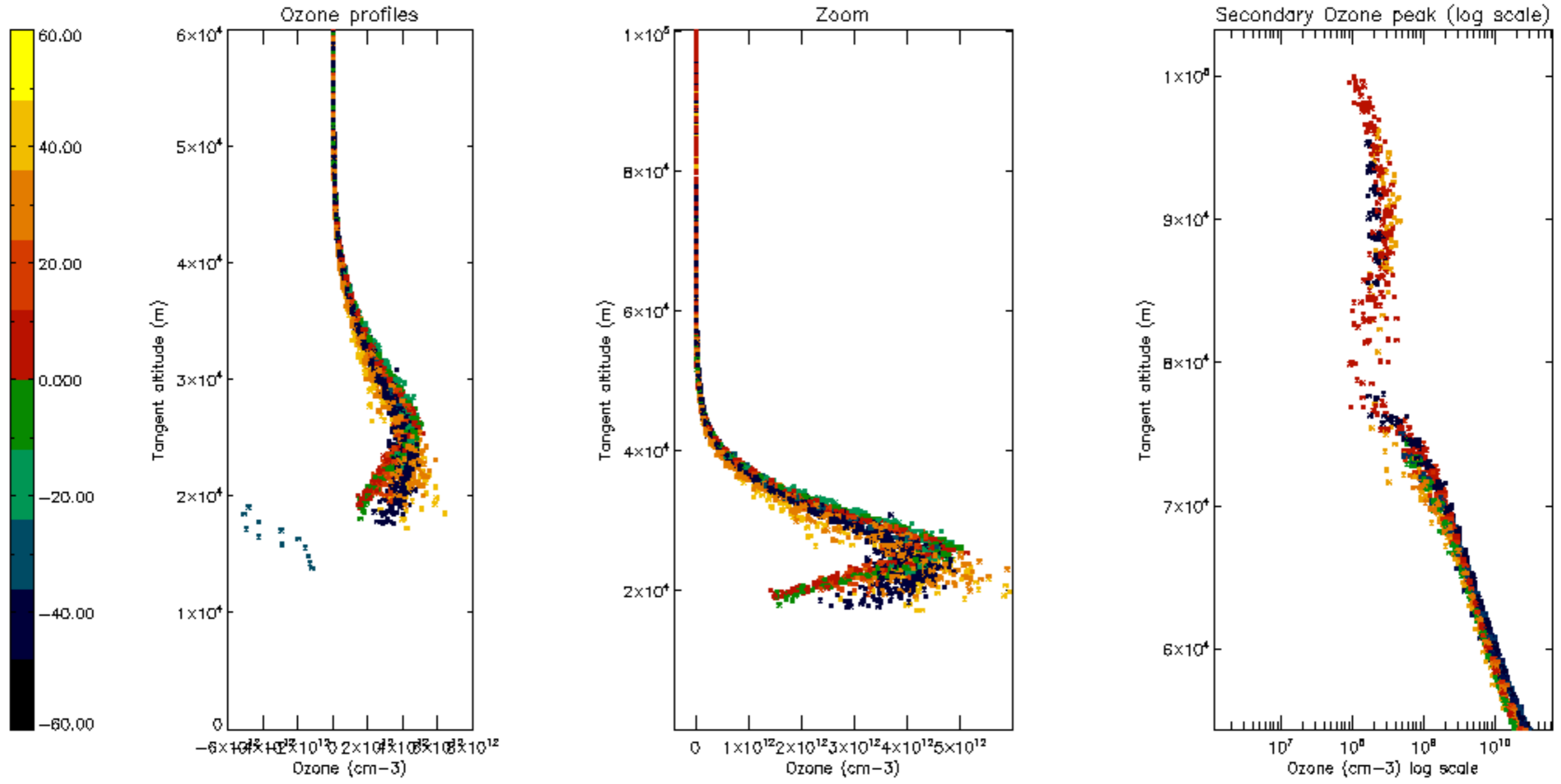


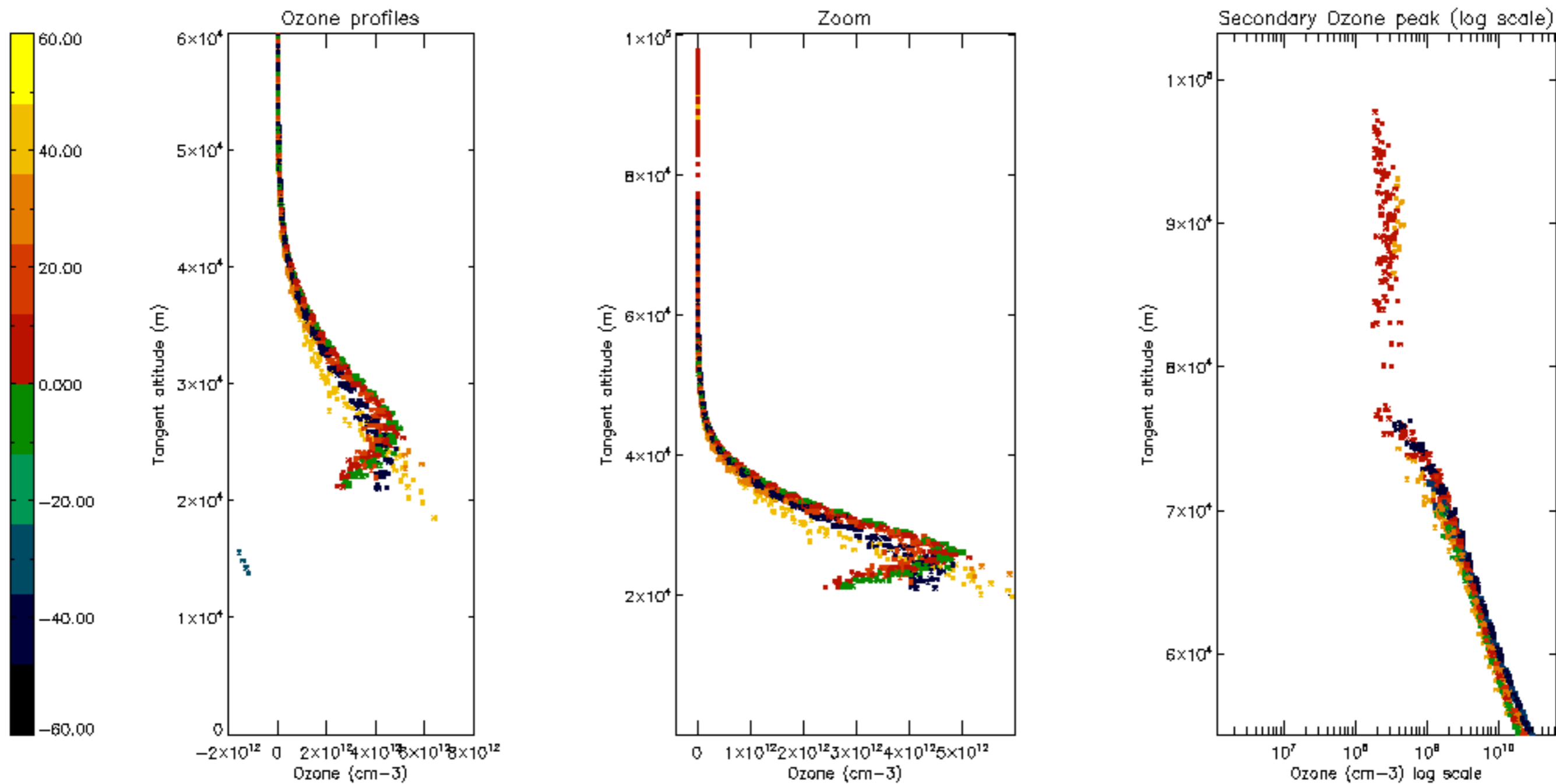
Percentage of saturation errors per profile

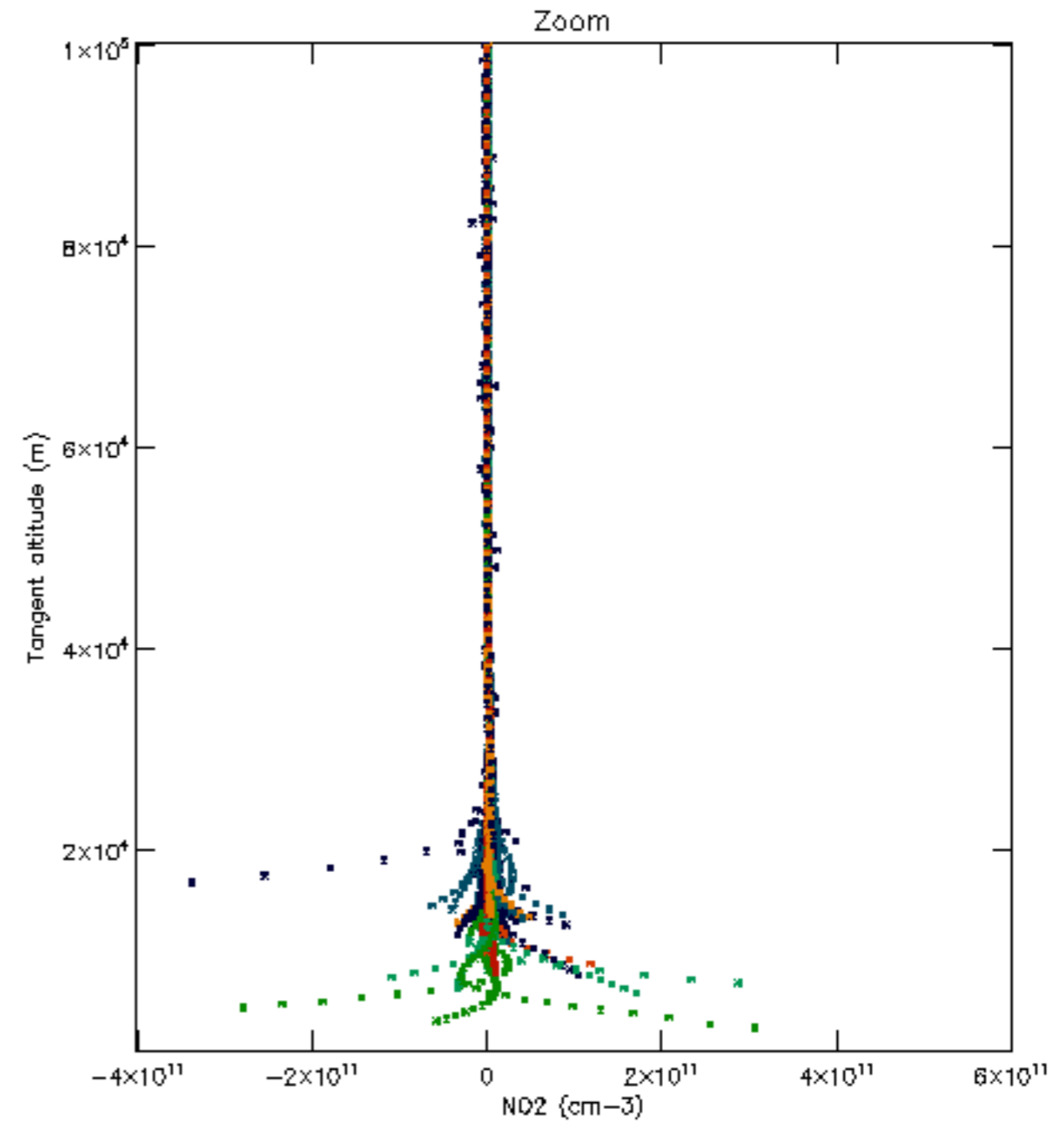
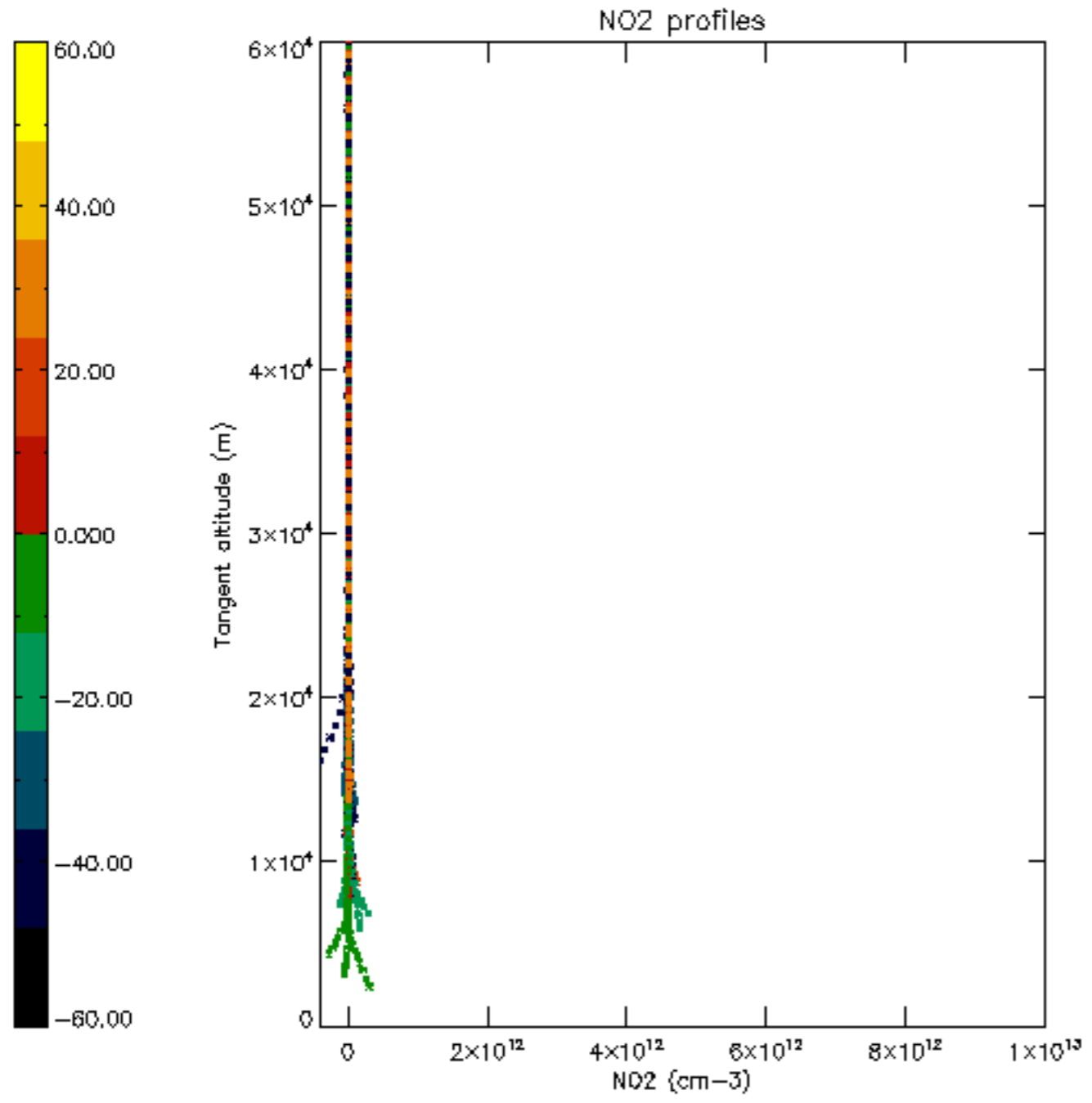


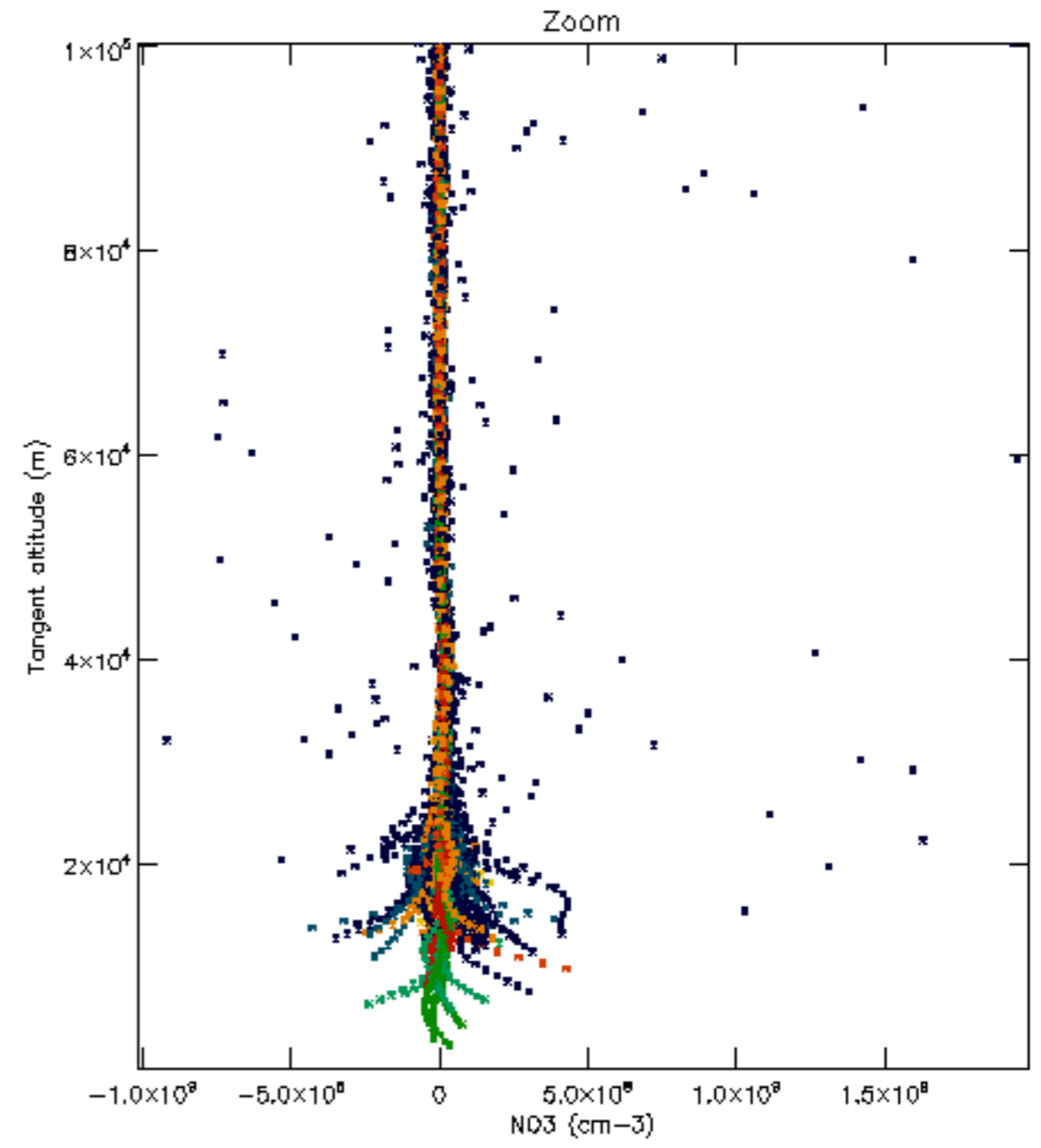
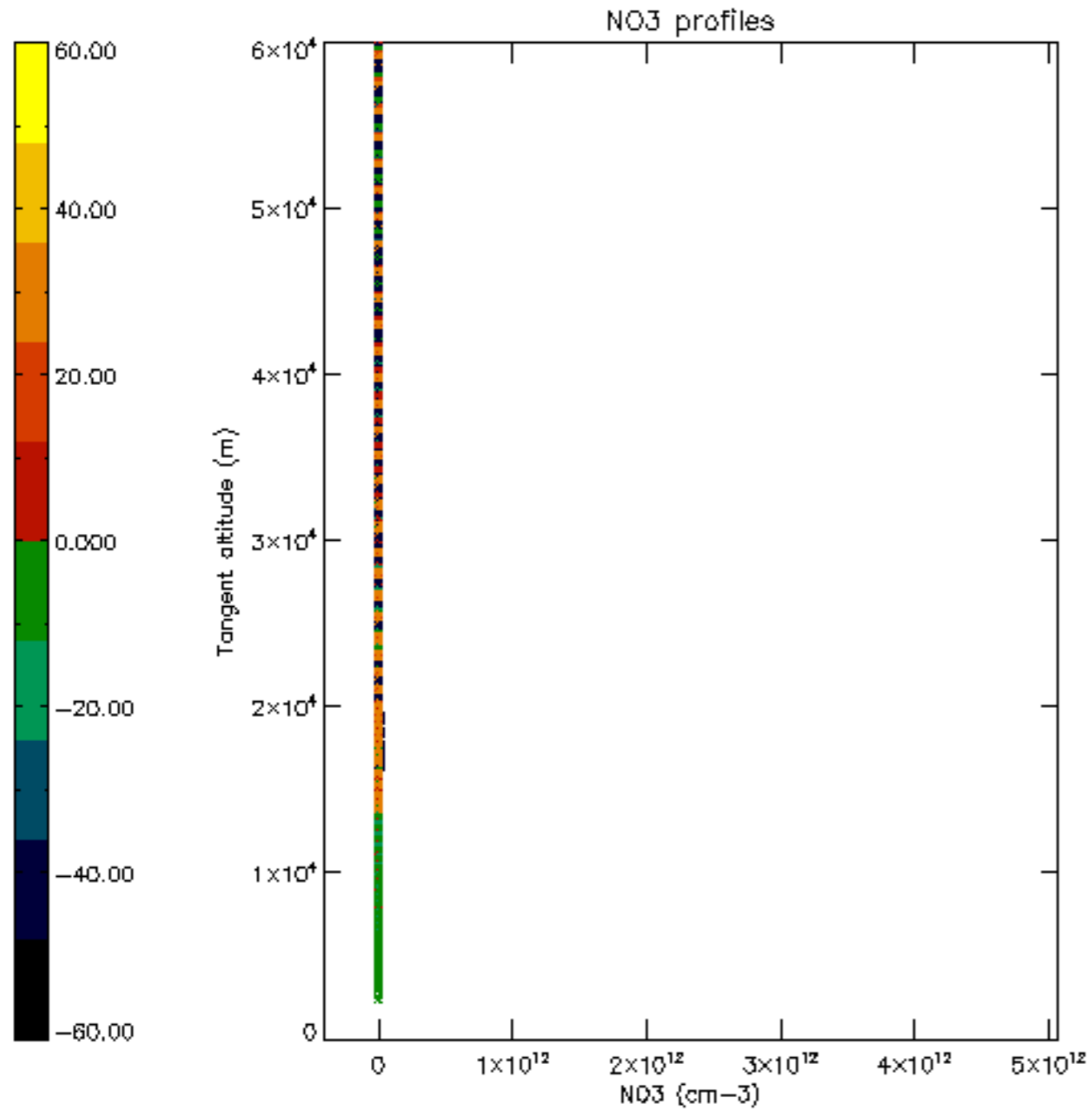


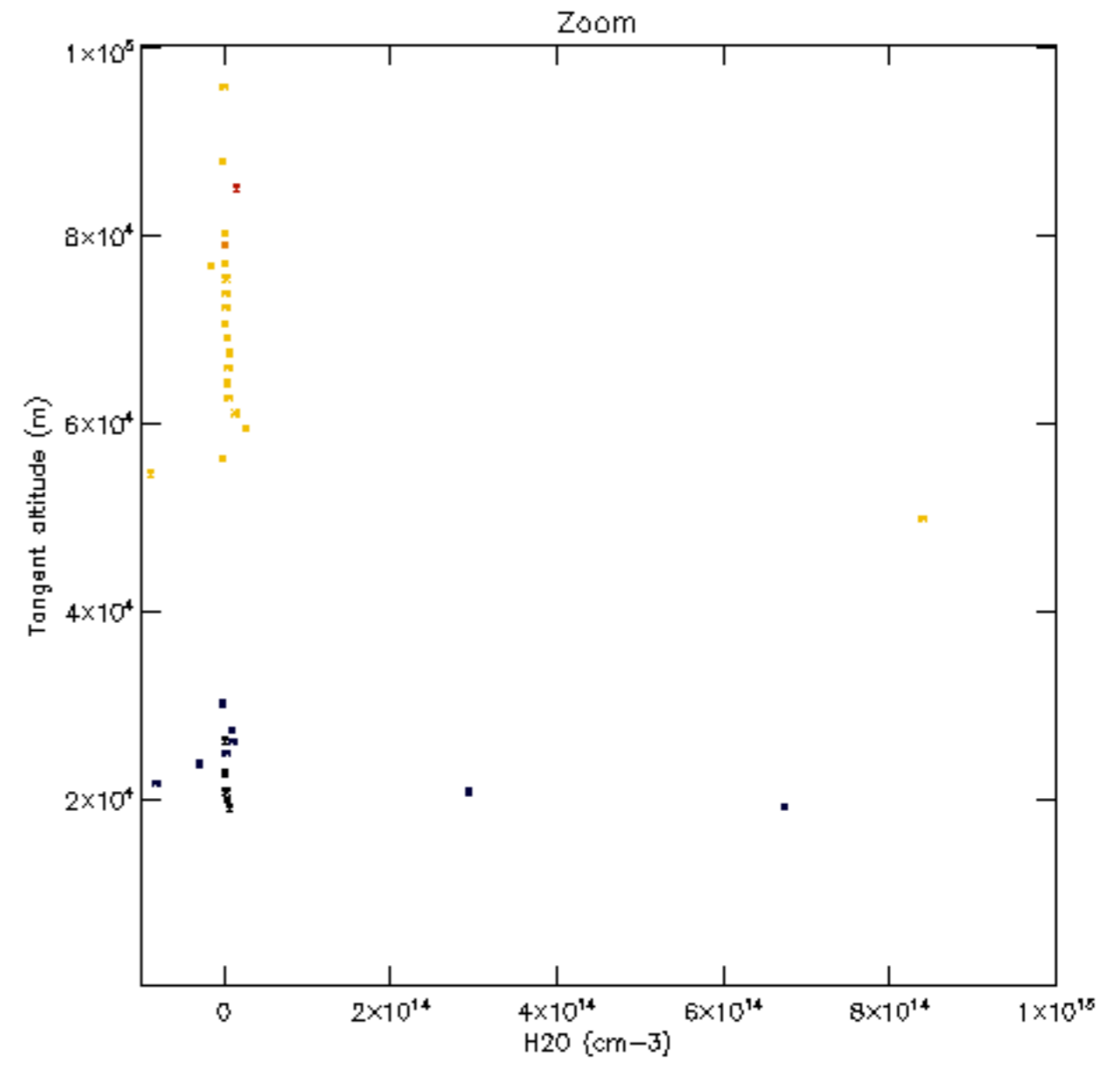
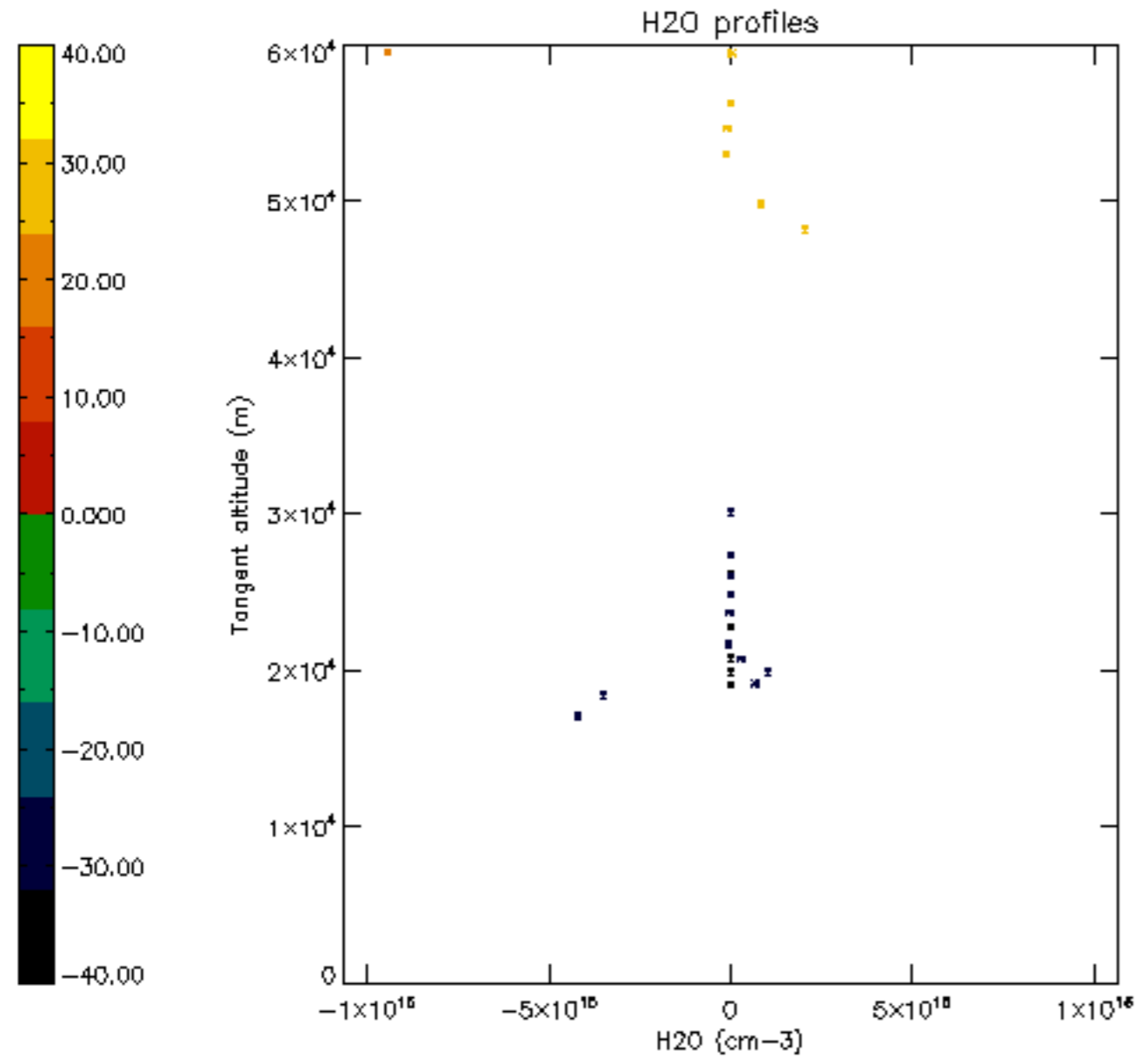


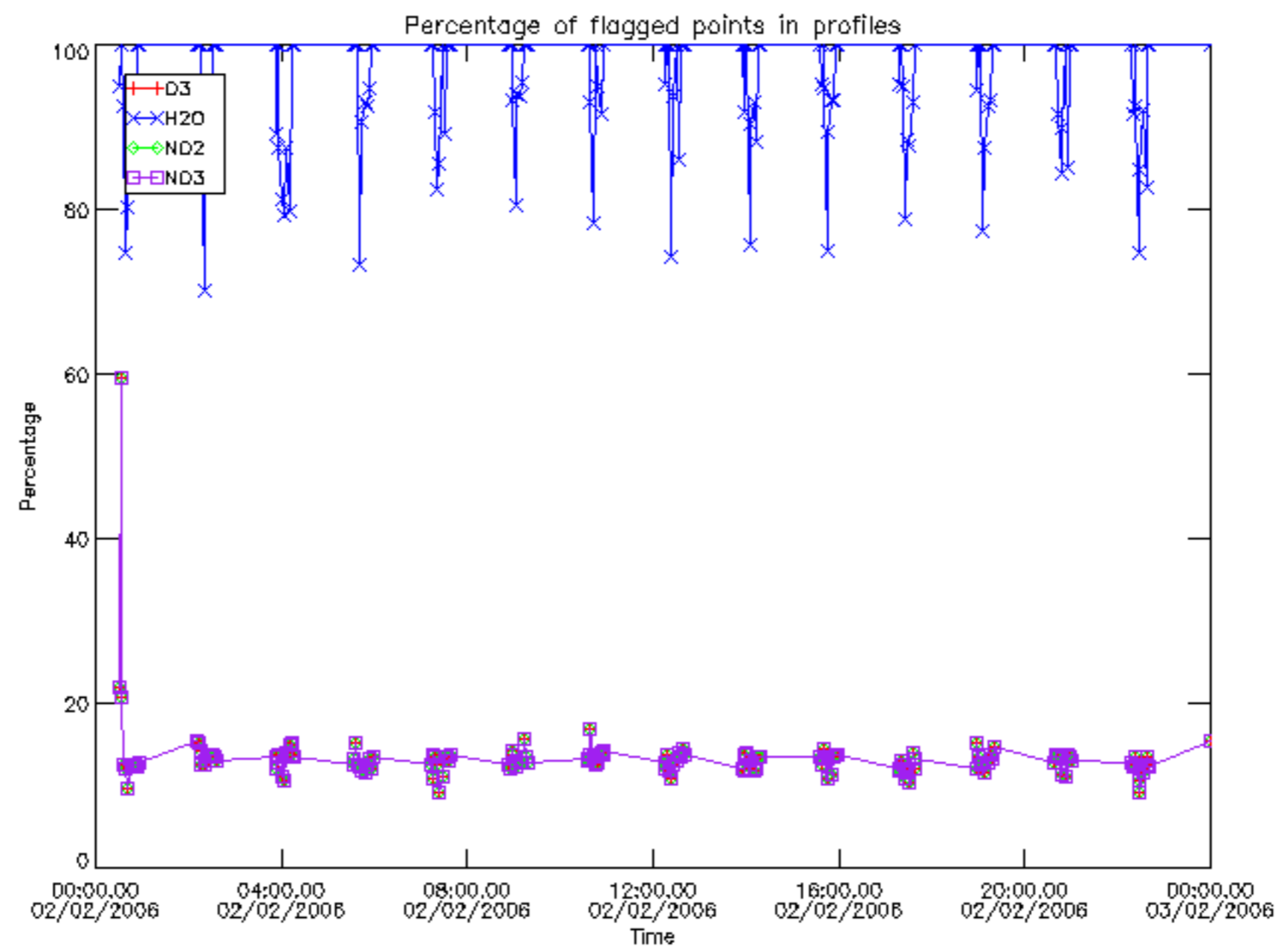




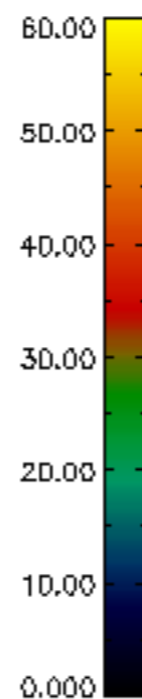
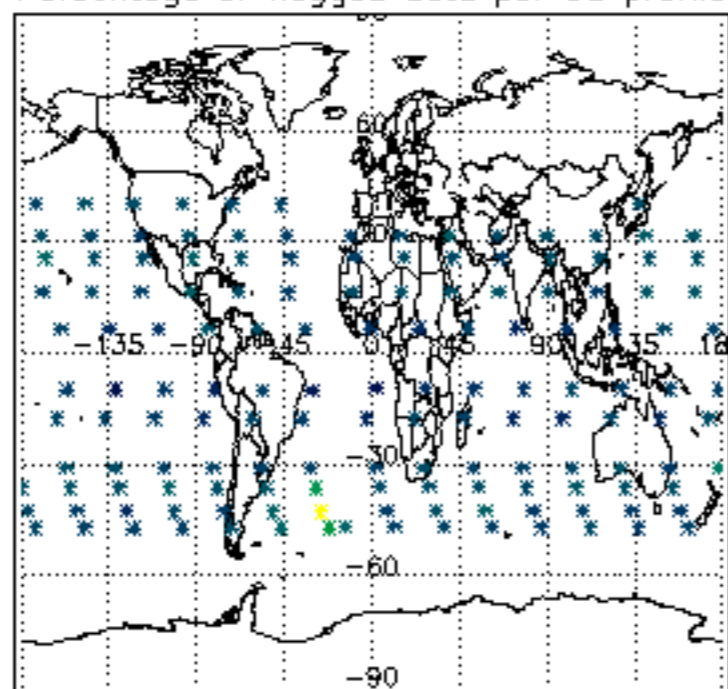




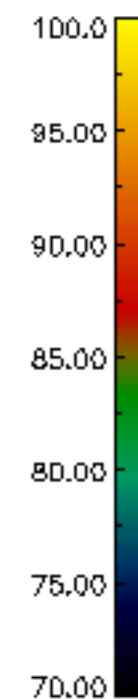
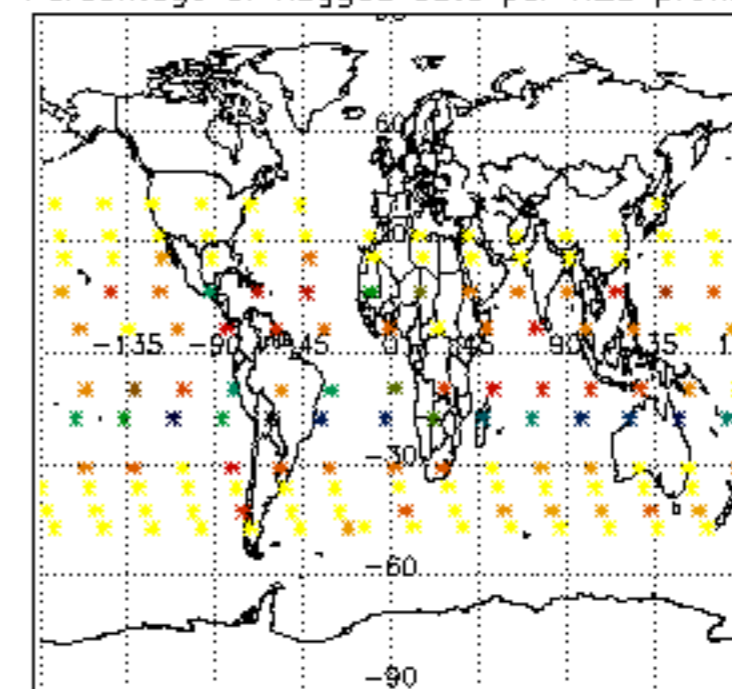




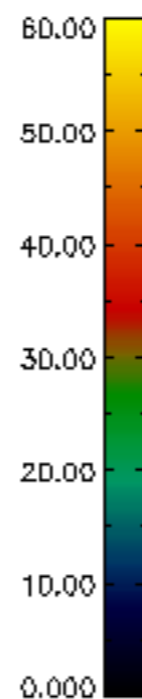
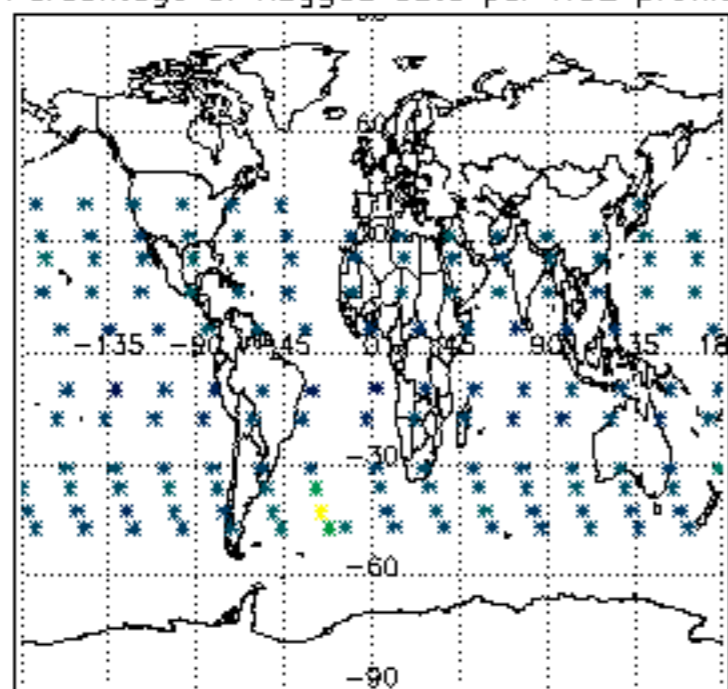
Percentage of flagged data per D3 profile



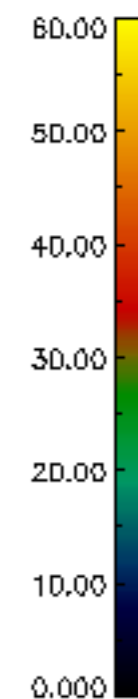
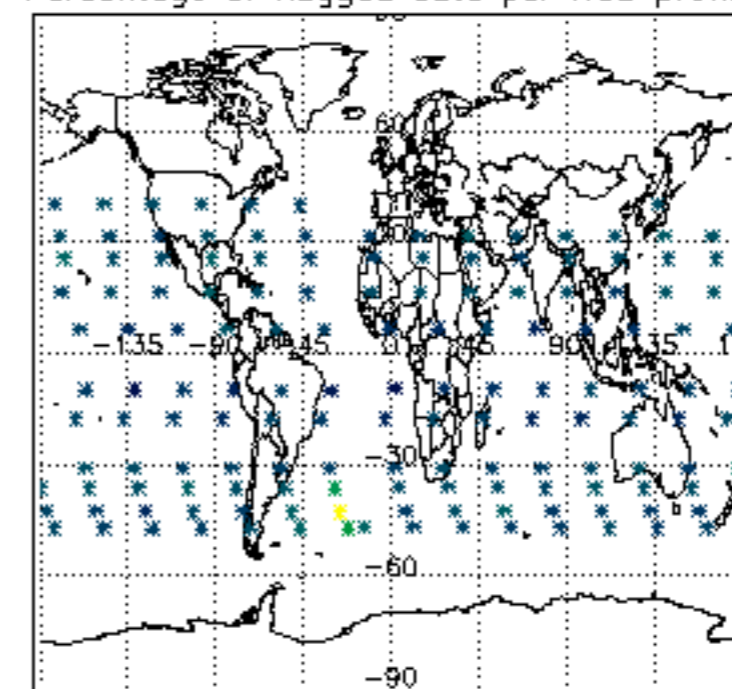
Percentage of flagged data per H2O profile

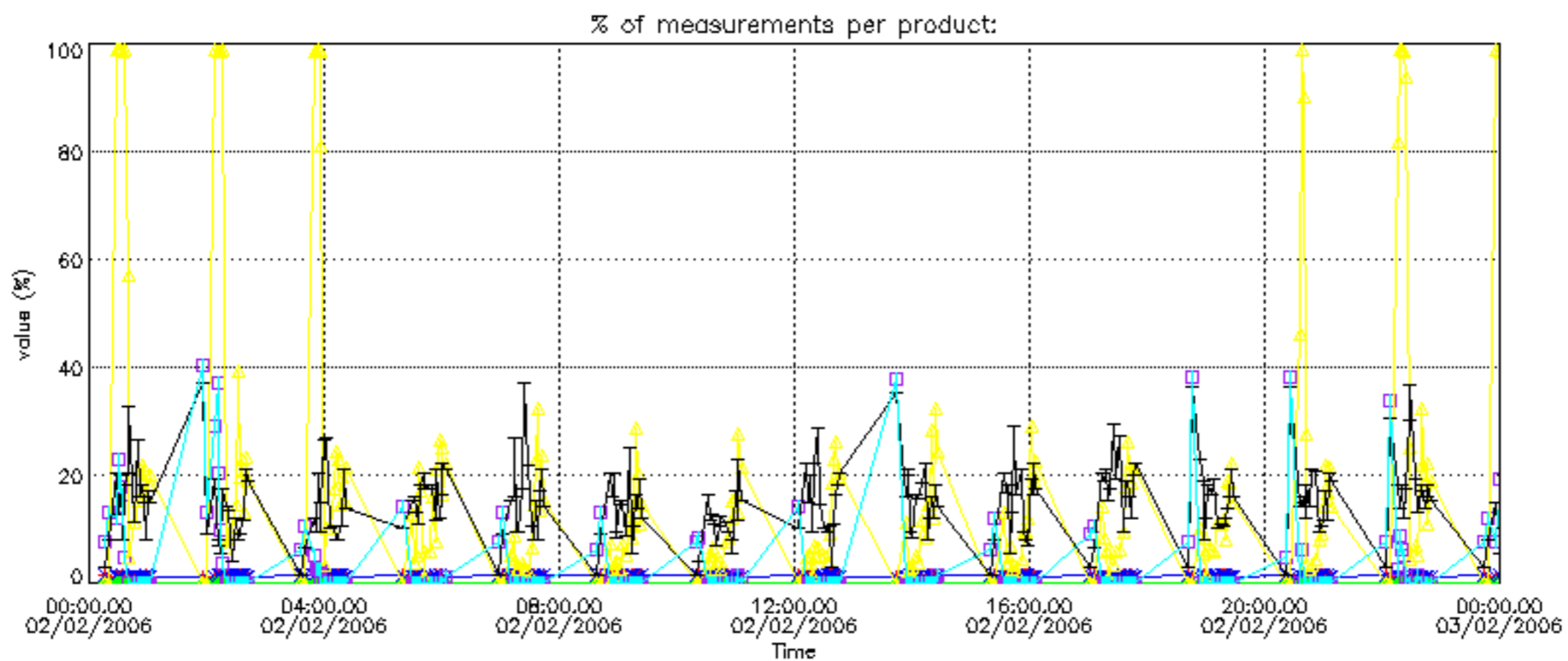


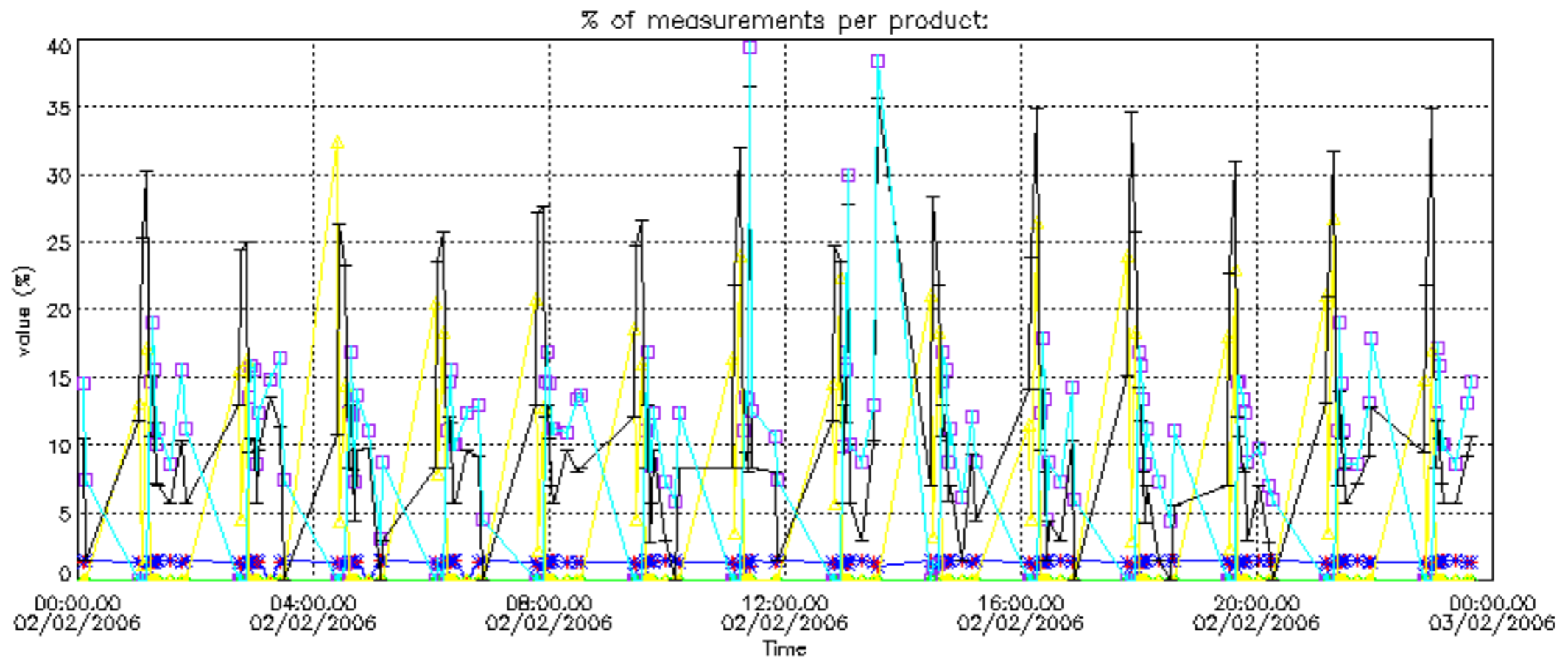
Percentage of flagged data per NO2 profile



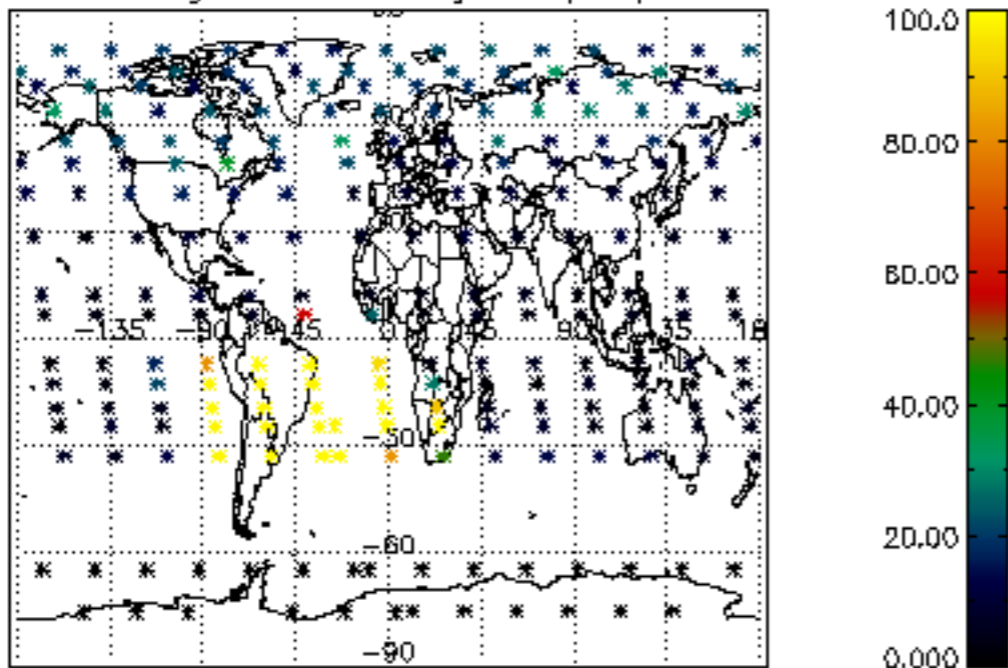
Percentage of flagged data per NO3 profile



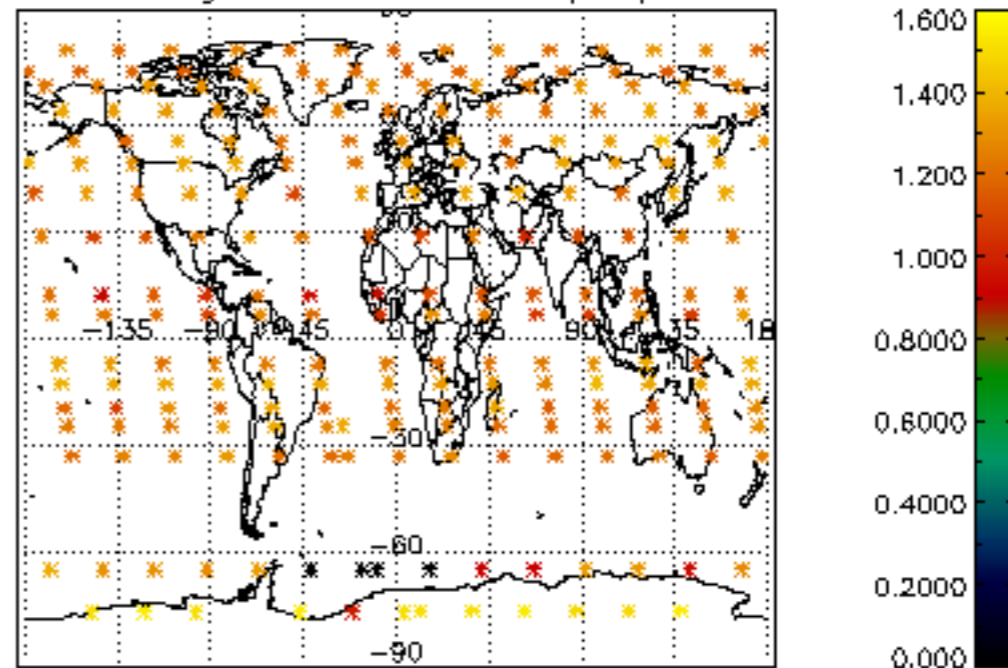




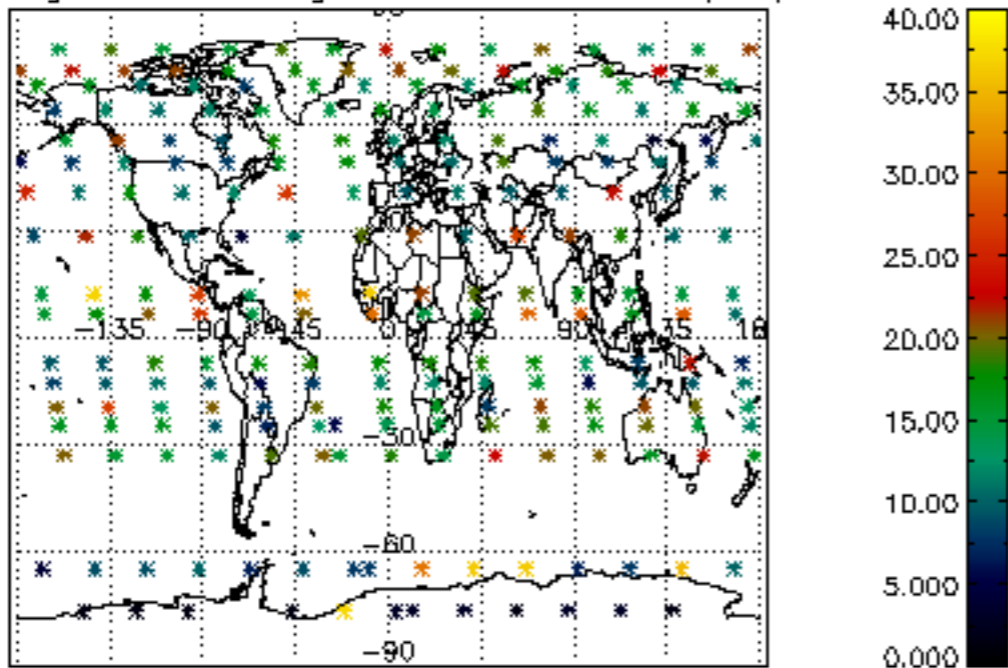
Percentage of cosmic ray hits per profile



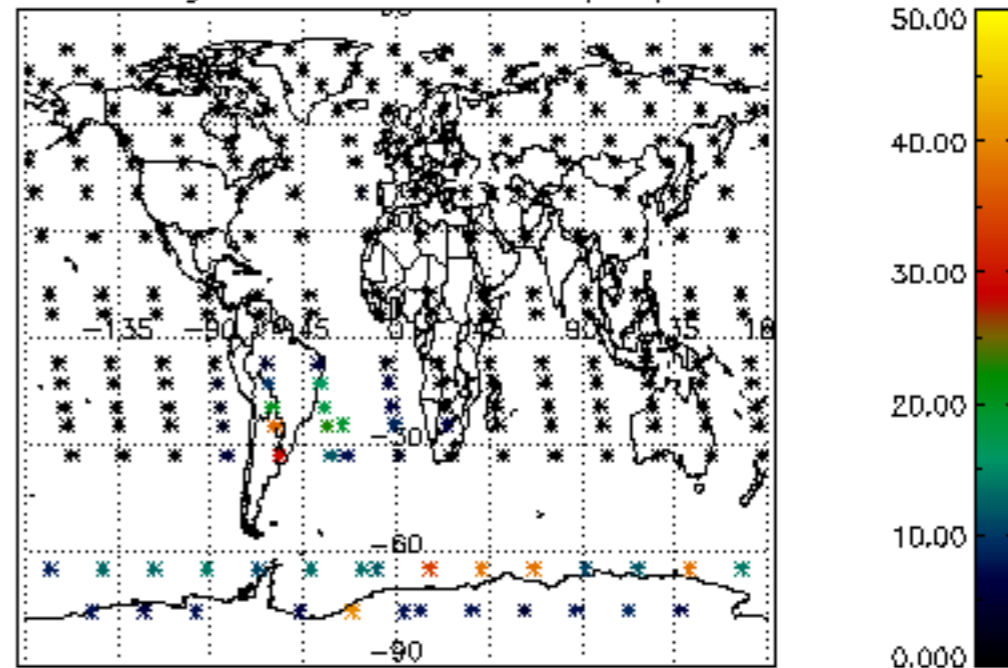
Percentage of datation errors per profile



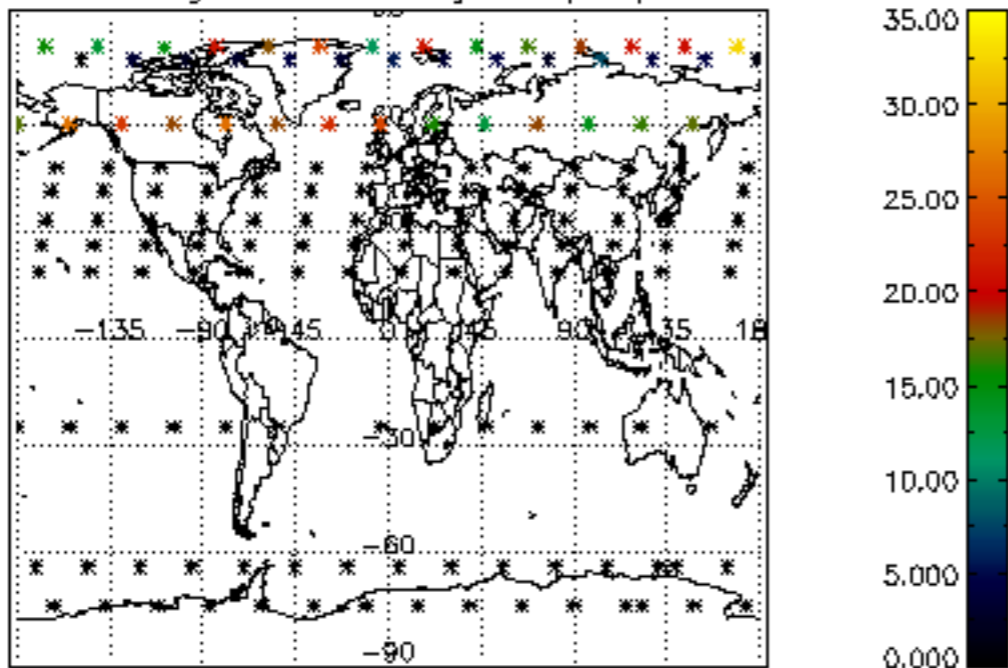
Percentage of star falling outside central band per profile



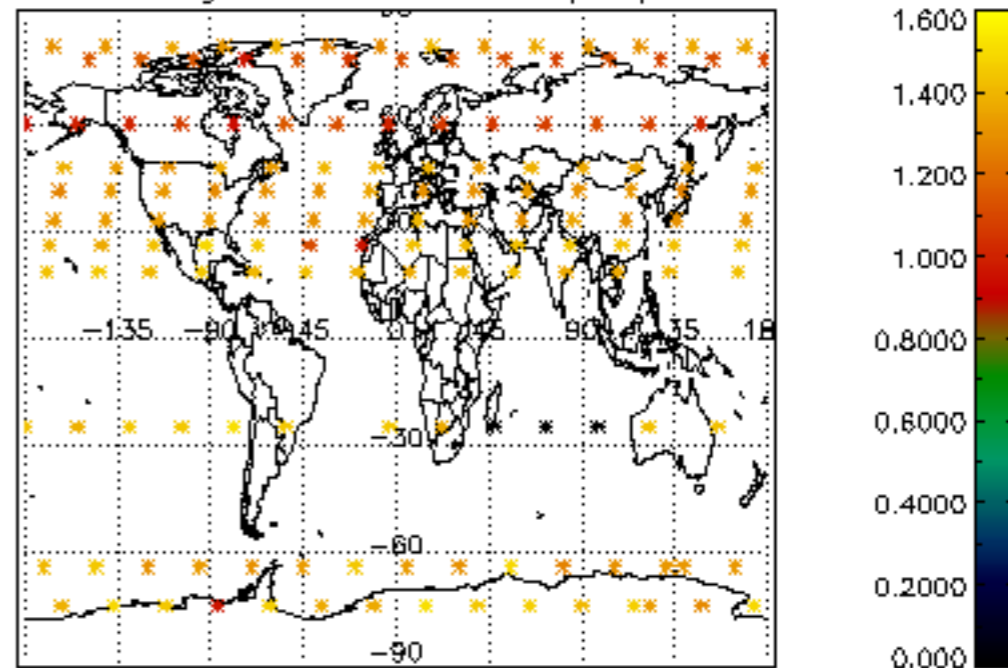
Percentage of saturation errors per profile



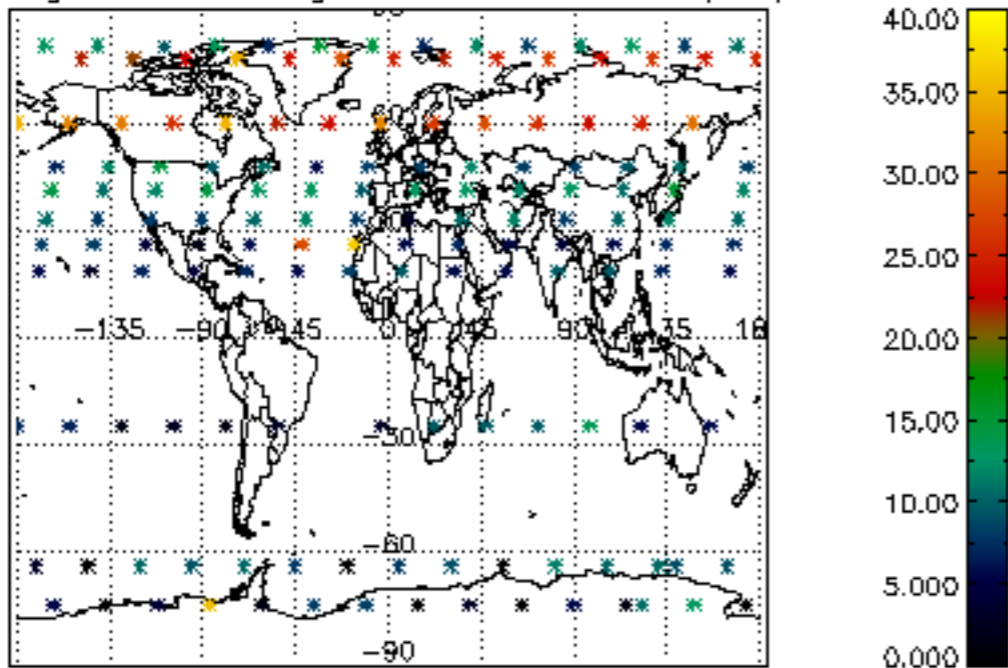
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

