

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	25APR2013 09:10:07
Data source version	GOMOS/6.01
Start time of products	22-01-2008 (22JAN2008 00:00:00)
Stop time of products	23-01-2008 (23JAN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	432
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

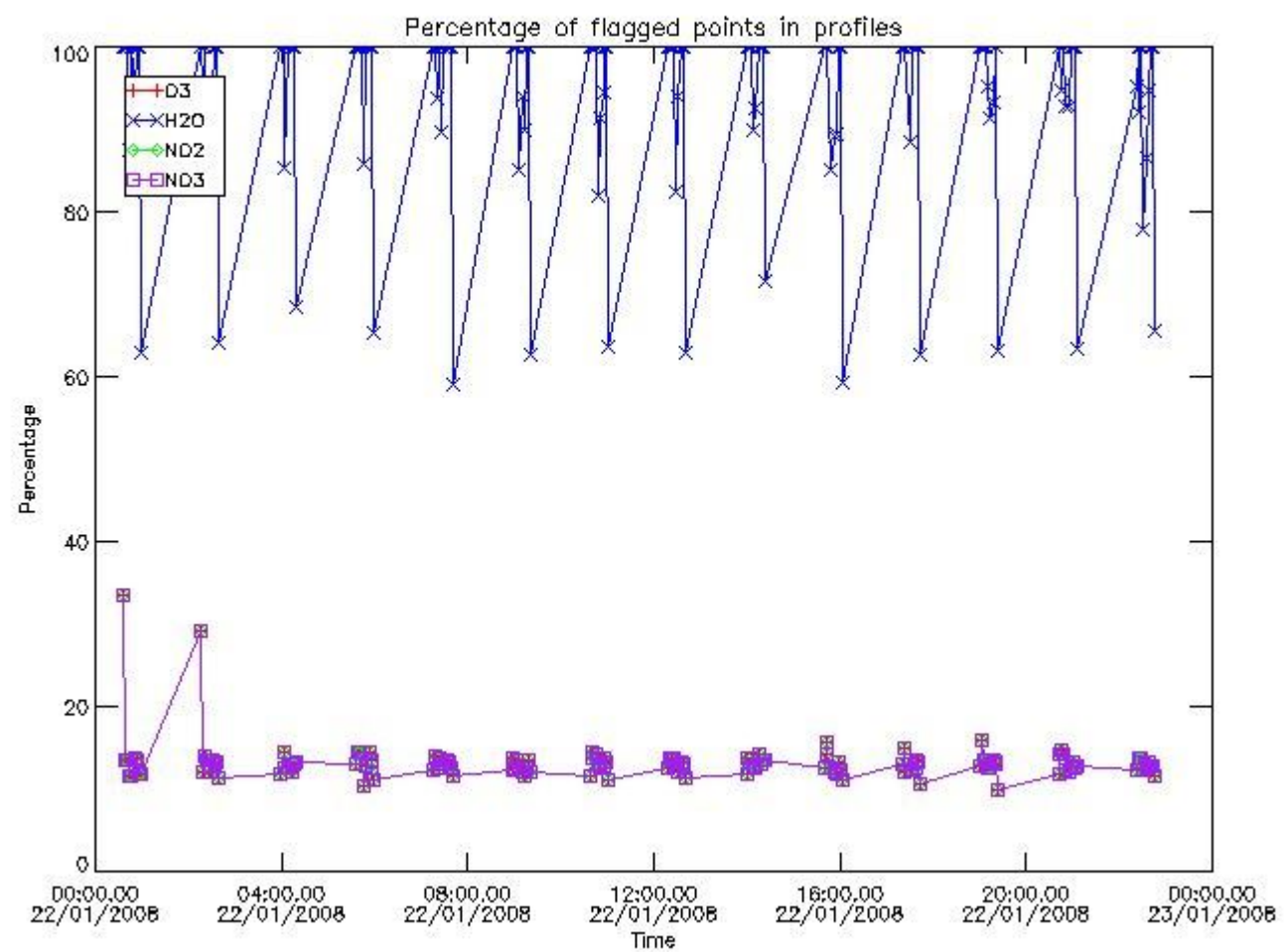
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20080122_000755_000000372065_00202_30817_9919.N1	22-JAN-2008 00:07:55	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	30817	No
2	GOM_NL__2PRFIN20080122_001113_000000362065_00202_30817_9920.N1	22-JAN-2008 00:11:13	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	30817	No
3	GOM_NL__2PRFIN20080122_001911_000000342065_00202_30817_9921.N1	22-JAN-2008 00:19:11	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	30817	No
4	GOM_NL__2PRFIN20080122_002118_000000342065_00202_30817_9922.N1	22-JAN-2008 00:21:18	Bright	33.500	126	60Bet Oph	2.7700	4250.0	67	30817	No
5	GOM_NL__2PRFIN20080122_002724_000000382065_00202_30817_9923.N1	22-JAN-2008 00:27:24	Bright	38.000	86	35Eta Oph	2.4300	10200.	76	30817	No
6	GOM_NL__2PRFIN20080122_003116_000000482065_00202_30817_9924.N1	22-JAN-2008 00:31:16	Twilight	47.500	16	21Alp Sco	1.0200	3000.0	95	30817	No
7	GOM_NL__2PRFIN20080122_003248_000000422065_00202_30817_9925.N1	22-JAN-2008 00:32:48	Twilight	42.000	75	26Eps Sco	2.2910	4250.0	84	30817	No
8	GOM_NL__2PRFIN20080122_003620_000000372065_00202_30817_9926.N1	22-JAN-2008 00:36:20	Dark	36.500	147	Alp Ara	2.8770	26000.	73	30817	No
9	GOM_NL__2PRFIN20080122_003755_000000382065_00202_30817_9927.N1	22-JAN-2008 00:37:55	Dark	37.500	141	Bet Ara	2.8400	4600.0	75	30817	No
10	GOM_NL__2PRFIN20080122_004109_000000382065_00203_30818_9911.N1	22-JAN-2008 00:41:09	Dark	37.500	134	Bet TrA	2.8100	6600.0	75	30818	No
11	GOM_NL__2PRFIN20080122_004328_000000442065_00203_30818_9912.N1	22-JAN-2008 00:43:28	Dark	44.000	10	Bet Cen	0.61000	28000.	88	30818	No
12	GOM_NL__2PRFIN20080122_004656_000000442065_00203_30818_9913.N1	22-JAN-2008 00:46:56	Dark	44.000	12	Alp1Cru	0.77500	30000.	88	30818	No
13	GOM_NL__2PRFIN20080122_005111_000000372065_00203_30818_9914.N1	22-JAN-2008 00:51:11	Dark	37.000	29	Bet Car	1.6720	10200.	74	30818	No
14	GOM_NL__2PRFIN20080122_005317_000000382065_00203_30818_9915.N1	22-JAN-2008 00:53:17	Dark	38.000	71	lot Car	2.2460	7700.0	76	30818	No
15	GOM_NL__2PRFIN20080122_005507_000000432065_00203_30818_9916.N1	22-JAN-2008 00:55:07	Dark	43.000	46	Del Vel	1.9540	10600.	86	30818	No
16	GOM_NL__2PRFIN20080122_005745_000000442065_00203_30818_9917.N1	22-JAN-2008 00:57:45	Dark	43.500	2	Alp Car	-0.73600	7000.0	87	30818	No
17	GOM_NL__2PRFIN20080122_005953_000000392065_00203_30818_9918.N1	22-JAN-2008 00:59:53	Straylight	39.000	70	Zet Pup	2.2460	39000.	78	30818	No
18	GOM_NL__2PRFIN20080122_010125_000000412065_00203_30818_9919.N1	22-JAN-2008 01:01:25	Straylight	41.000	117	Pi Pup	2.7060	3800.0	82	30818	No
19	GOM_NL__2PRFIN20080122_010355_000000422065_00203_30818_9920.N1	22-JAN-2008 01:03:55	Straylight	41.500	23	21Eps CMa	1.5020	26000.	83	30818	No
20	GOM_NL__2PRFIN20080122_010518_000000392065_00203_30818_9921.N1	22-JAN-2008 01:05:18	Straylight	38.500	179	24Omi2CMa	3.0320	24000.	77	30818	No
21	GOM_NL__2PRFIN20080122_010729_000000442065_00203_30818_9922.N1	22-JAN-2008 01:07:29	Straylight	44.000	1	9Alp CMa	-1.4400	11000.	88	30818	No
22	GOM_NL__2PRFIN20080122_011002_000000422065_00203_30818_9923.N1	22-JAN-2008 01:10:02	Straylight	42.000	56	53Kap Ori	2.0650	30000.	84	30818	No
23	GOM_NL__2PRFIN20080122_011231_000000422065_00203_30818_9924.N1	22-JAN-2008 01:12:31	Twilight	42.000	30	46Eps Ori	1.6940	30000.	84	30818	No
24	GOM_NL__2PRFIN20080122_011439_000000482065_00203_30818_9925.N1	22-JAN-2008 01:14:39	Twilight	47.500	14	58Alp Ori	0.87000	3000.0	95	30818	No
25	GOM_NL__2PRFIN20080122_011654_000000462065_00203_30818_9926.N1	22-JAN-2008 01:16:54	Bright	45.500	44	24Gam Gem	1.9280	11000.	91	30818	No
26	GOM_NL__2PRFIN20080122_011840_000000402065_00203_30818_9927.N1	22-JAN-2008 01:18:40	Bright	40.000	151	13Mu Gem	2.8900	3000.0	80	30818	No
27	GOM_NL__2PRFIN20080122_012049_000000372065_00203_30818_9928.N1	22-JAN-2008 01:20:49	Bright	37.000	28	12Bet Tau	1.6500	15200.	74	30818	No
28	GOM_NL__2PRFIN20080122_012252_000000342065_00203_30818_9929.N1	22-JAN-2008 01:22:52	Bright	34.000	107	37The Aur	2.6490	11000.	68	30818	No
29	GOM_NL__2PRFIN20080122_012501_000000362065_00203_30818_9930.N1	22-JAN-2008 01:25:01	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	30818	No
30	GOM_NL__2PRFIN20080122_013734_000000332065_00203_30818_9931.N1	22-JAN-2008 01:37:34	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	30818	No
31	GOM_NL__2PRFIN20080122_014831_000000352065_00203_30818_9932.N1	22-JAN-2008 01:48:31	Bright	35.000	130	23Bet Dra	2.7990	5800.0	70	30818	No
32	GOM_NL__2PRFIN20080122_015149_000000362065_00203_30818_9933.N1	22-JAN-2008 01:51:49	Bright	36.000	5	3Alp Lyr	0.033000	11000.	72	30818	No
33	GOM_NL__2PRFIN20080122_015947_000000342065_00203_30818_9934.N1	22-JAN-2008 01:59:47	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	30818	No
34	GOM_NL__2PRFIN20080122_020154_000000332065_00203_30818_9935.N1	22-JAN-2008 02:01:54	Bright	33.000	126	60Bet Oph	2.7700	4250.0	66	30818	No
35	GOM_NL__2PRFIN20080122_020801_000000372065_00203_30818_9936.N1	22-JAN-2008 02:08:01	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	30818	No
36	GOM_NL__2PRFIN20080122_021152_000000462065_00203_30818_9937.N1	22-JAN-2008 02:11:52	Twilight	46.000	16	21Alp Sco	1.0200	3000.0	92	30818	No
37	GOM_NL__2PRFIN20080122_021324_000000422065_00203_30818_9938.N1	22-JAN-2008 02:13:24	Twilight	41.500	75	26Eps Sco	2.2910	4250.0	83	30818	No
38	GOM_NL__2PRFIN20080122_021656_000000372065_00203_30818_9939.N1	22-JAN-2008 02:16:56	Dark	36.500	147	Alp Ara	2.8770	26000.	73	30818	No
39	GOM_NL__2PRFIN20080122_021831_000000422065_00203_30818_9940.N1	22-JAN-2008 02:18:31	Dark	42.000	141	Bet Ara	2.8400	4600.0	84	30818	No
40	GOM_NL__2PRFIN20080122_022145_000000372065_00204_30819_9930.N1	22-JAN-2008 02:21:45	Dark	36.500	134	Bet TrA	2.8100	6600.0	73	30819	No
41	GOM_NL__2PRFIN20080122_022405_000000422065_00204_30819_9931.N1	22-JAN-2008 02:24:05	Dark	41.500	10	Bet Cen	0.61000	28000.	83	30819	No
42	GOM_NL__2PRFIN20080122_022732_000000432065_00204_30819_9932.N1	22-JAN-2008 02:27:32	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	30819	No

397	GOM_NL__2PRFIN20080122_215902_000000352065_00215_30830_0117.N1	22-JAN-2008 21:59:02	Bright	35.000	5	3Alp Lyr	0.033000	11000.	70	30830	No
398	GOM_NL__2PRFIN20080122_220701_000000342065_00215_30830_0118.N1	22-JAN-2008 22:07:01	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	30830	No
399	GOM_NL__2PRFIN20080122_220908_000000342065_00215_30830_0119.N1	22-JAN-2008 22:09:08	Bright	34.000	126	60Bet Oph	2.7700	4250.0	68	30830	No
400	GOM_NL__2PRFIN20080122_221516_000000372065_00215_30830_0120.N1	22-JAN-2008 22:15:16	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	30830	No
401	GOM_NL__2PRFIN20080122_221910_000000502065_00215_30830_0121.N1	22-JAN-2008 22:19:10	Twilight	50.000	16	21Alp Sco	1.0200	3000.0	100	30830	No
402	GOM_NL__2PRFIN20080122_222040_000000442065_00215_30830_0122.N1	22-JAN-2008 22:20:40	Twilight	43.500	75	26Eps Sco	2.2910	4250.0	87	30830	No
403	GOM_NL__2PRFIN20080122_222213_000000422065_00215_30830_0123.N1	22-JAN-2008 22:22:13	Dark	41.500	40	The Sco	1.8590	7100.0	83	30830	No
404	GOM_NL__2PRFIN20080122_222409_000000372065_00215_30830_0124.N1	22-JAN-2008 22:24:09	Dark	37.000	147	Alp Ara	2.8770	26000.	74	30830	No
405	GOM_NL__2PRFIN20080122_222544_000000392065_00215_30830_0125.N1	22-JAN-2008 22:25:44	Dark	38.500	141	Bet Ara	2.8400	4600.0	77	30830	No
406	GOM_NL__2PRFIN20080122_222900_000000372065_00216_30831_0109.N1	22-JAN-2008 22:29:00	Dark	37.000	134	Bet TrA	2.8100	6600.0	74	30831	No
407	GOM_NL__2PRFIN20080122_223123_000000462065_00216_30831_0110.N1	22-JAN-2008 22:31:23	Dark	45.500	10	Bet Cen	0.61000	28000.	91	30831	No
408	GOM_NL__2PRFIN20080122_223450_000000412065_00216_30831_0111.N1	22-JAN-2008 22:34:50	Dark	41.000	12	Alp1Cru	0.77500	30000.	82	30831	No
409	GOM_NL__2PRFIN20080122_223902_000000392065_00216_30831_0112.N1	22-JAN-2008 22:39:02	Dark	38.500	29	Bet Car	1.6720	10200.	77	30831	No
410	GOM_NL__2PRFIN20080122_224109_000000402065_00216_30831_0113.N1	22-JAN-2008 22:41:09	Dark	40.000	71	lot Car	2.2460	7700.0	80	30831	No
411	GOM_NL__2PRFIN20080122_224259_000000402065_00216_30831_0114.N1	22-JAN-2008 22:42:59	Dark	40.000	46	Del Vel	1.9540	10600.	80	30831	No
412	GOM_NL__2PRFIN20080122_224534_000000442065_00216_30831_0115.N1	22-JAN-2008 22:45:34	Dark	44.000	2	Alp Car	-0.73600	7000.0	88	30831	No
413	GOM_NL__2PRFIN20080122_224744_000000392065_00216_30831_0116.N1	22-JAN-2008 22:47:44	Straylight	39.000	70	Zet Pup	2.2460	39000.	78	30831	No
414	GOM_NL__2PRFIN20080122_224915_000000432065_00216_30831_0117.N1	22-JAN-2008 22:49:15	Straylight	43.000	117	Pi Pup	2.7060	3800.0	86	30831	No
415	GOM_NL__2PRFIN20080122_225145_000000432065_00216_30831_0118.N1	22-JAN-2008 22:51:45	Straylight	42.500	23	21Eps CMa	1.5020	26000.	85	30831	No
416	GOM_NL__2PRFIN20080122_225308_000000392065_00216_30831_0119.N1	22-JAN-2008 22:53:08	Straylight	38.500	179	24Omi2CMa	3.0320	24000.	77	30831	No
417	GOM_NL__2PRFIN20080122_225518_000000432065_00216_30831_0120.N1	22-JAN-2008 22:55:18	Straylight	43.000	1	9Alp CMa	-1.4400	11000.	86	30831	No
418	GOM_NL__2PRFIN20080122_225751_000000402065_00216_30831_0121.N1	22-JAN-2008 22:57:51	Tw_i_and_stray	39.500	56	53Kap Ori	2.0650	30000.	79	30831	No
419	GOM_NL__2PRFIN20080122_230005_000000422065_00216_30831_0122.N1	22-JAN-2008 23:00:05	Tw_i_and_stray	42.000	33	50Zet Ori	1.7660	30000.	84	30831	No
420	GOM_NL__2PRFIN20080122_230229_000000452065_00216_30831_0123.N1	22-JAN-2008 23:02:29	Tw_i_and_stray	45.000	14	58Alp Ori	0.87000	3000.0	90	30831	No
421	GOM_NL__2PRFIN20080122_230442_000000452065_00216_30831_0124.N1	22-JAN-2008 23:04:42	Bright	44.500	44	24Gam Gem	1.9280	11000.	89	30831	No
422	GOM_NL__2PRFIN20080122_230628_000000392065_00216_30831_0125.N1	22-JAN-2008 23:06:28	Bright	38.500	151	13Mu Gem	2.8900	3000.0	77	30831	No
423	GOM_NL__2PRFIN20080122_230839_000000362065_00216_30831_0126.N1	22-JAN-2008 23:08:39	Bright	35.500	28	12Bet Tau	1.6500	15200.	71	30831	No
424	GOM_NL__2PRFIN20080122_231040_000000362065_00216_30831_0127.N1	22-JAN-2008 23:10:40	Bright	35.500	107	37The Aur	2.6490	11000.	71	30831	No
425	GOM_NL__2PRFIN20080122_231249_000000362065_00216_30831_0128.N1	22-JAN-2008 23:12:49	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	30831	No
426	GOM_NL__2PRFIN20080122_232521_000000352065_00216_30831_0129.N1	22-JAN-2008 23:25:21	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	30831	No
427	GOM_NL__2PRFIN20080122_233619_000000532065_00216_30831_0130.N1	22-JAN-2008 23:36:19	Bright	53.000	130	23Bet Dra	2.7990	5800.0	106	30831	No
428	GOM_NL__2PRFIN20080122_233938_000000352065_00216_30831_0131.N1	22-JAN-2008 23:39:38	Bright	35.000	5	3Alp Lyr	0.033000	11000.	70	30831	No
429	GOM_NL__2PRFIN20080122_234738_000000342065_00216_30831_0132.N1	22-JAN-2008 23:47:38	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	30831	No
430	GOM_NL__2PRFIN20080122_234944_000000342065_00216_30831_0133.N1	22-JAN-2008 23:49:44	Bright	34.000	126	60Bet Oph	2.7700	4250.0	68	30831	No
431	GOM_NL__2PRFIN20080122_235552_000000382065_00216_30831_0134.N1	22-JAN-2008 23:55:52	Bright	38.000	86	35Eta Oph	2.4300	10200.	76	30831	No
432	GOM_NL__2PRFIN20080122_235946_000000482065_00216_30831_0135.N1	22-JAN-2008 23:59:46	Twilight	48.000	16	21Alp Sco	1.0200	3000.0	96	30831	No

3. Quality information per product

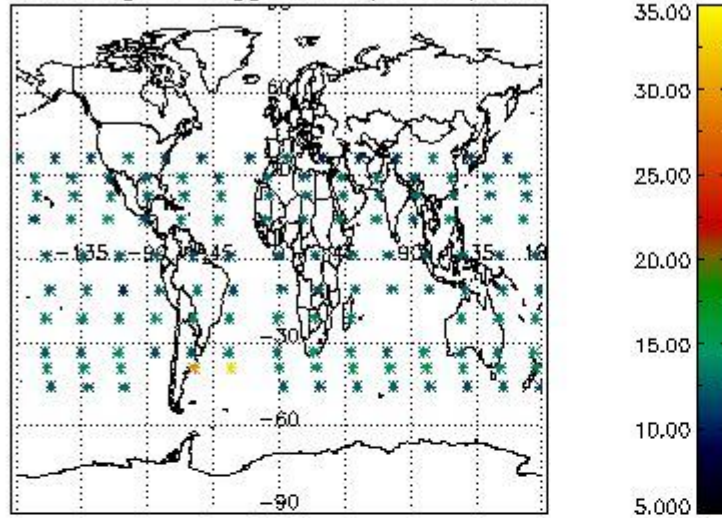
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

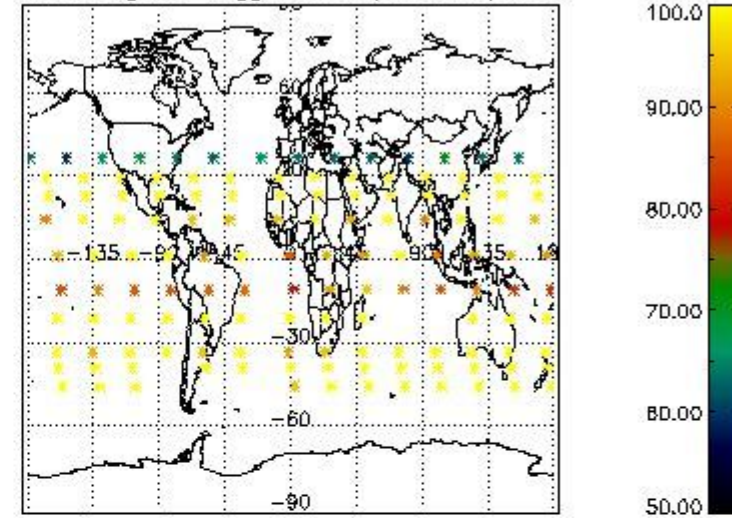


3.2 Plot quality information per product (world map)

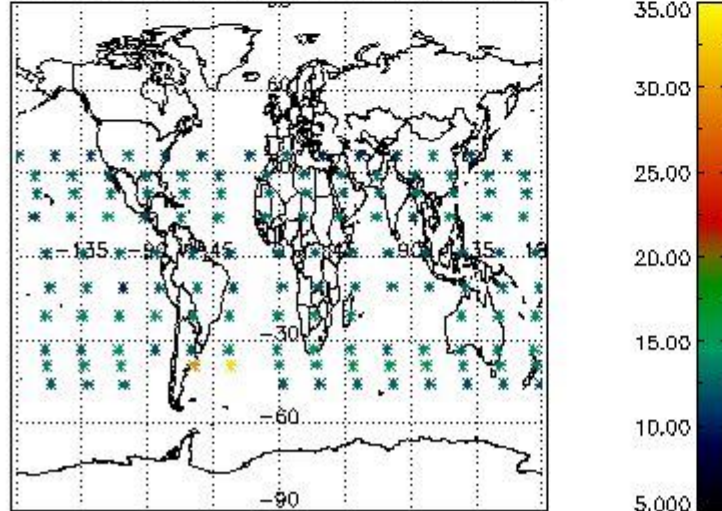
Percentage of flagged data per O3 profile



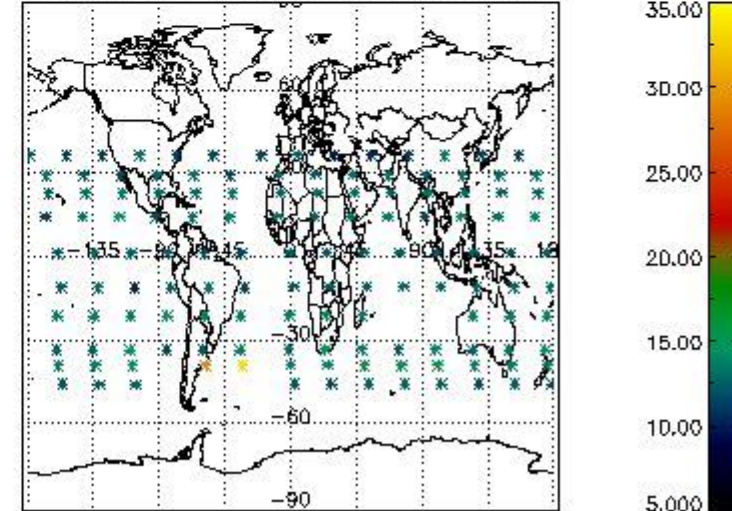
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

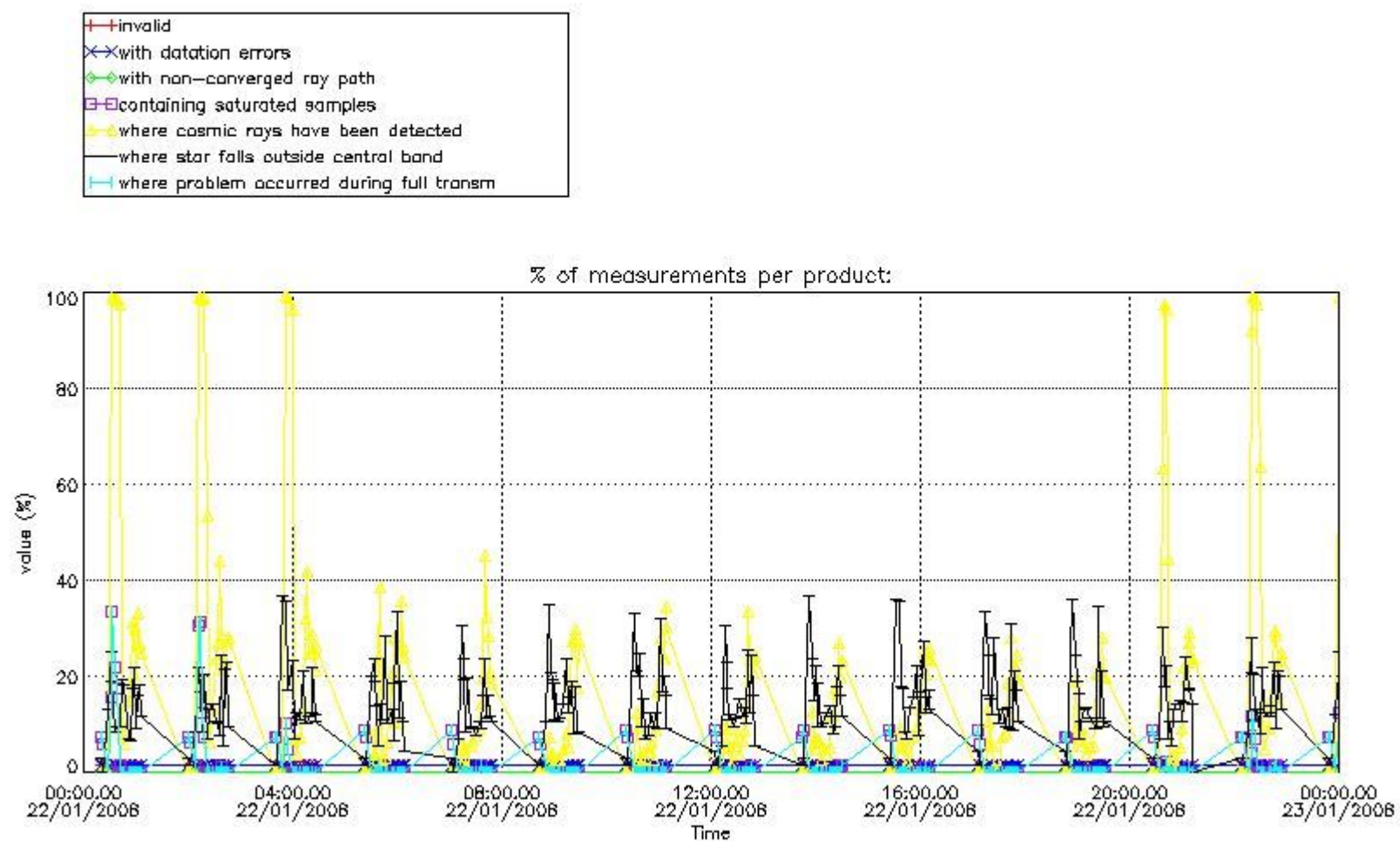


4. Level 1 quality information per product

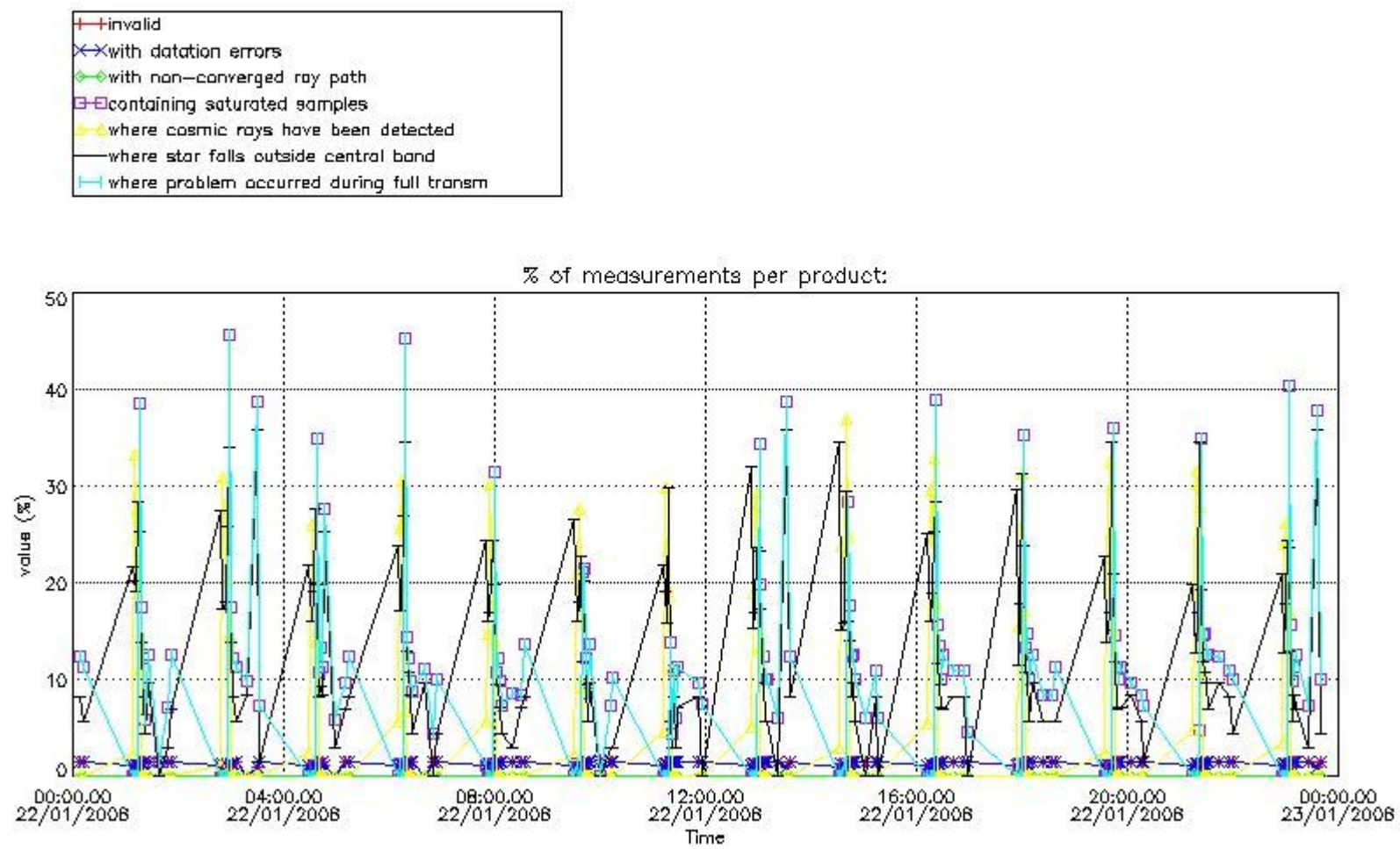
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



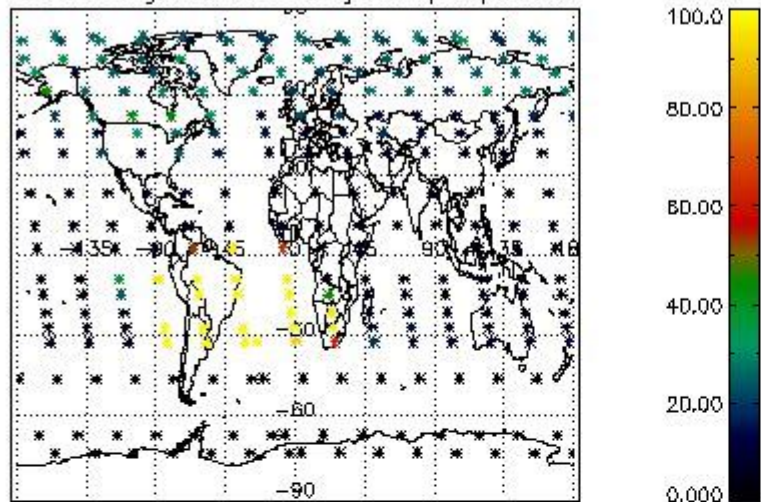
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



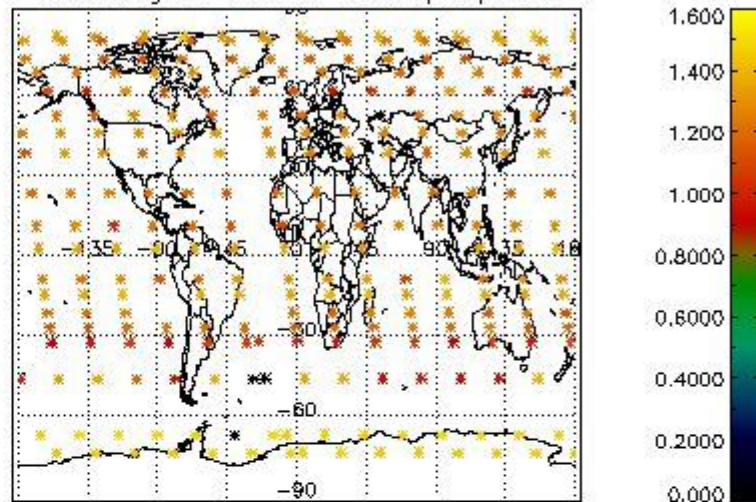
4.2 Plot quality information per product coming from level 1b processing (world map)

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

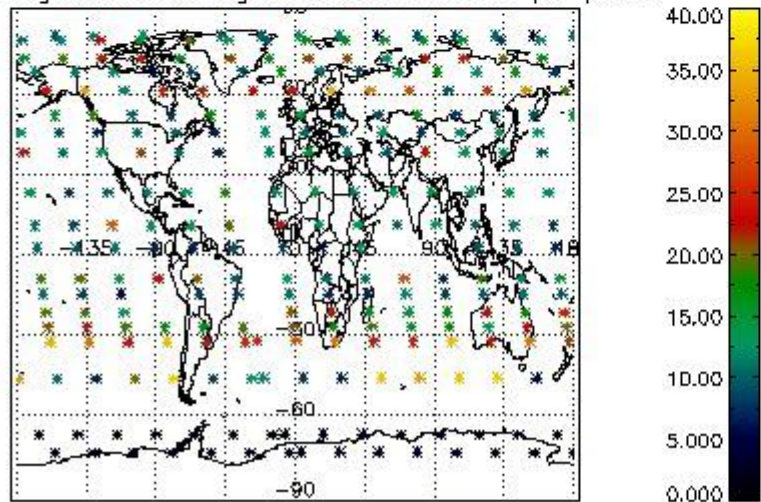
Percentage of cosmic ray hits per profile



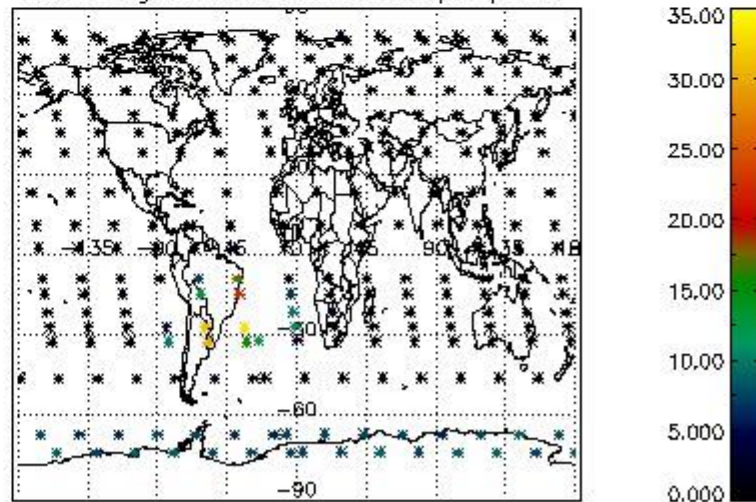
Percentage of datation errors per profile



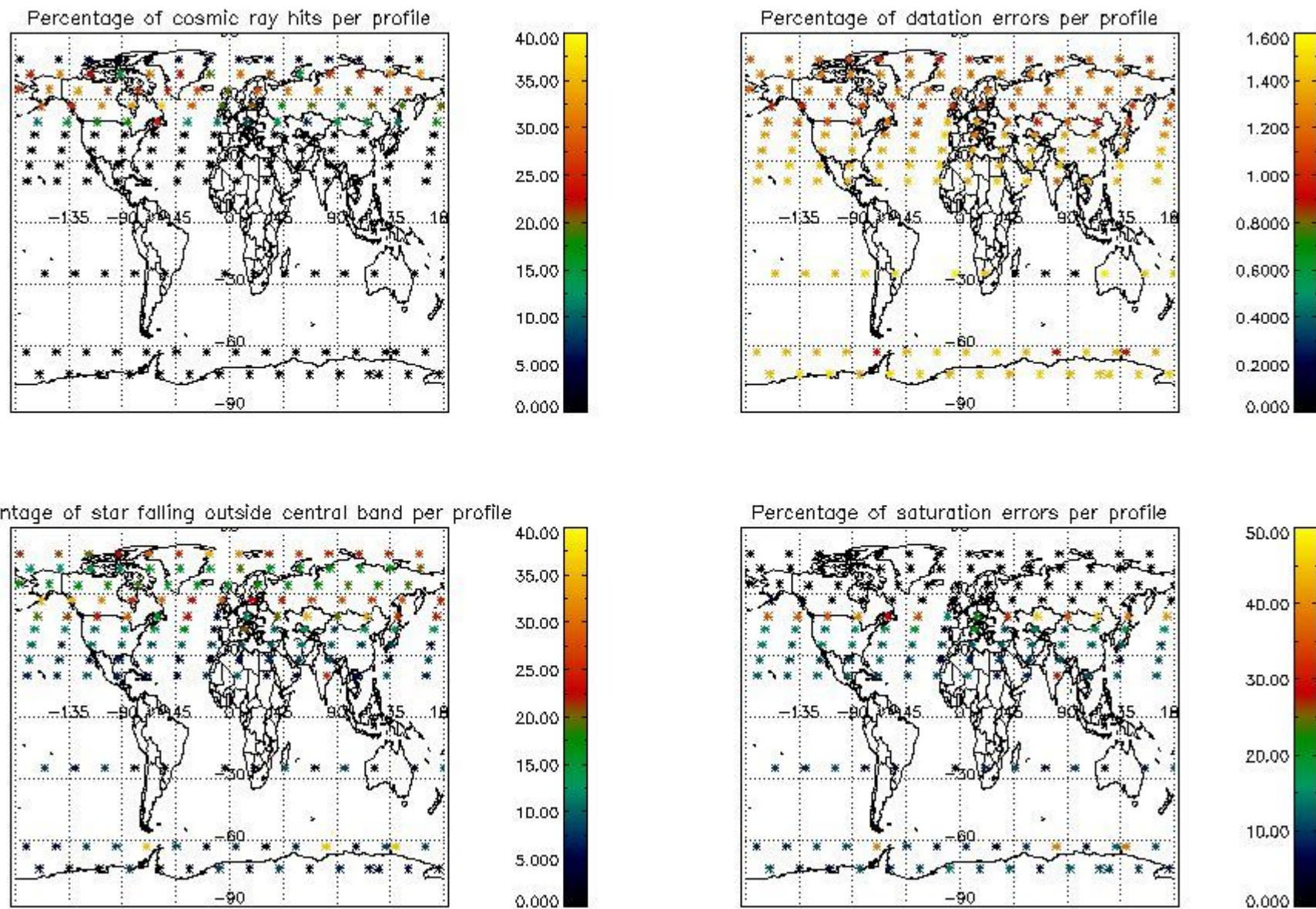
Percentage of star falling outside central band per profile



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

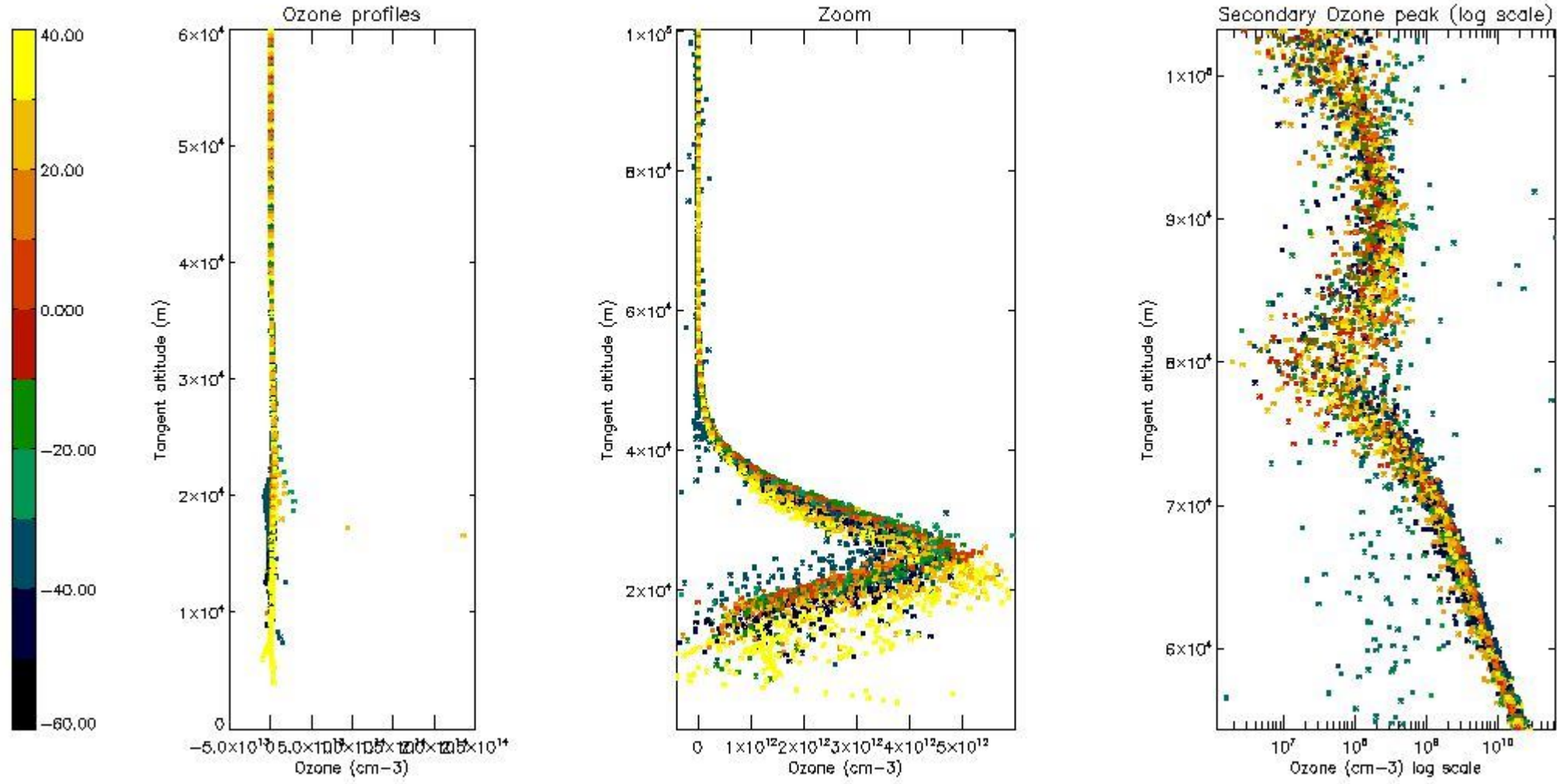
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	32
STD < 20	18

STD < 10	14
STD < 5	9

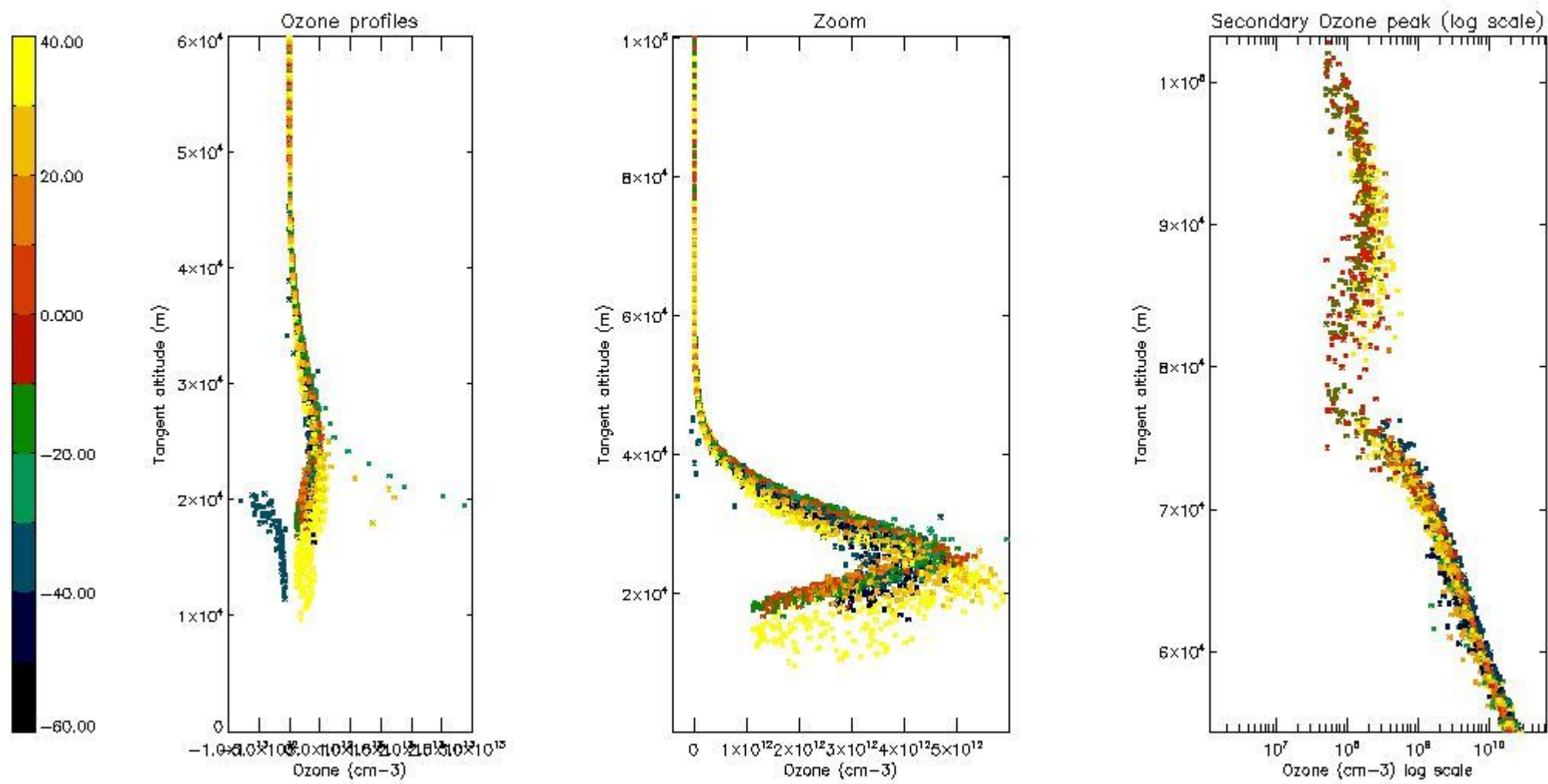
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



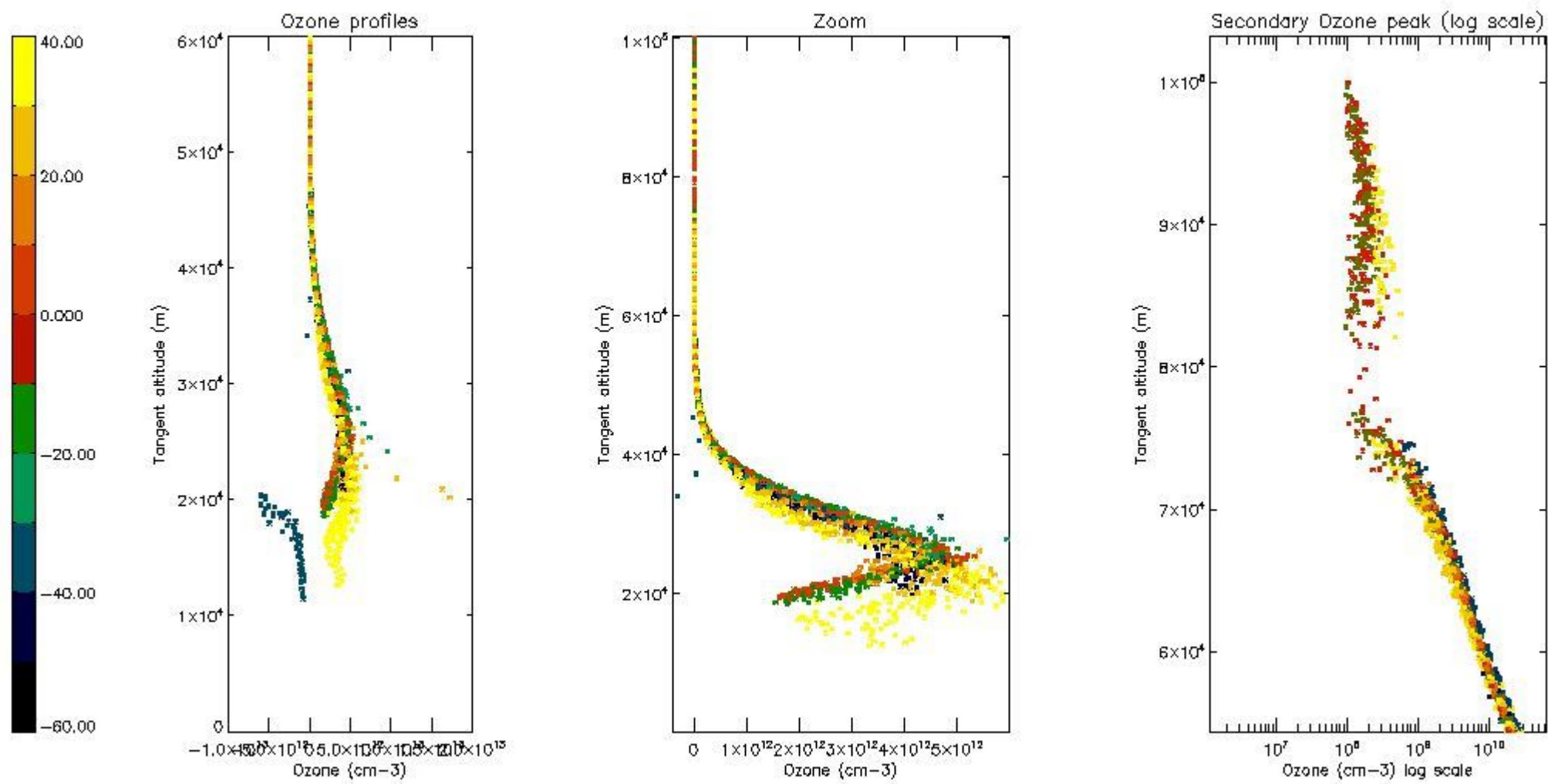
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



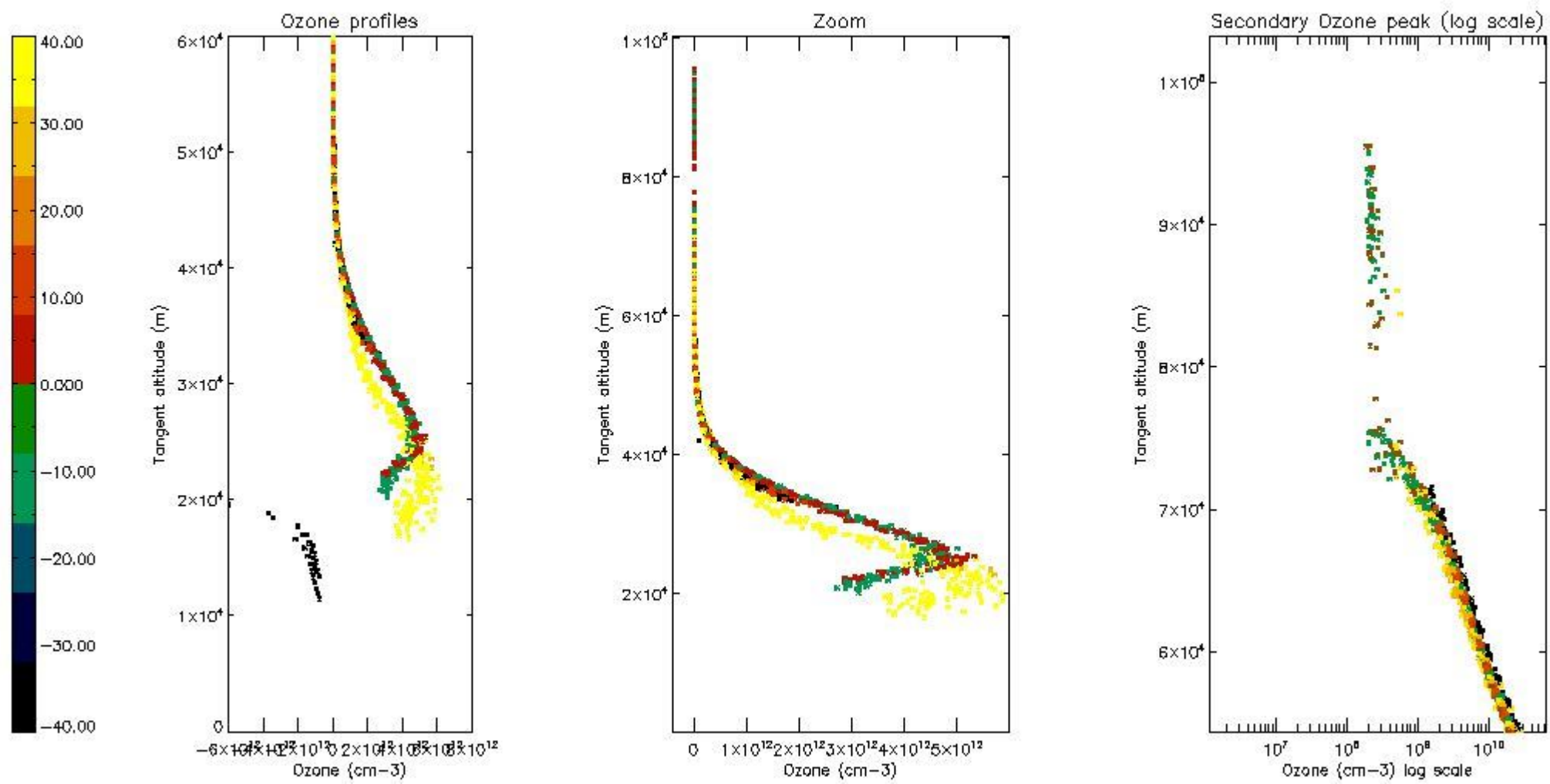
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



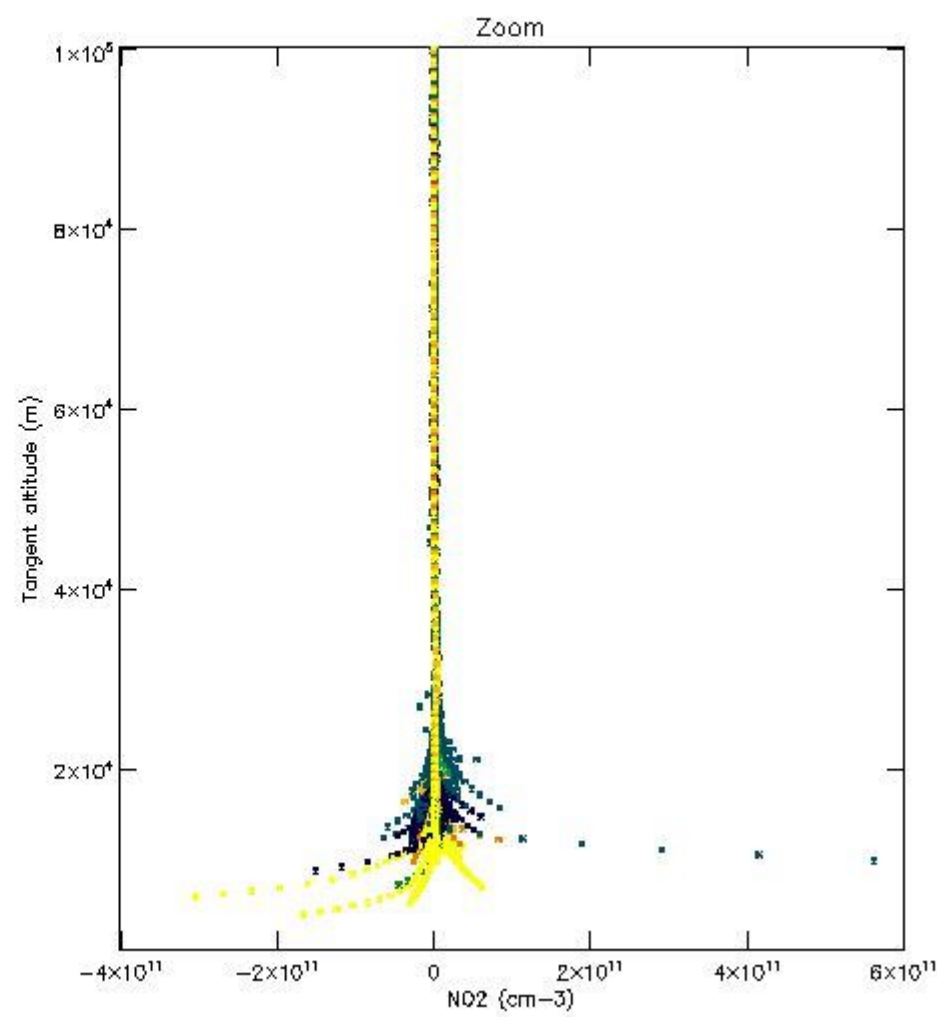
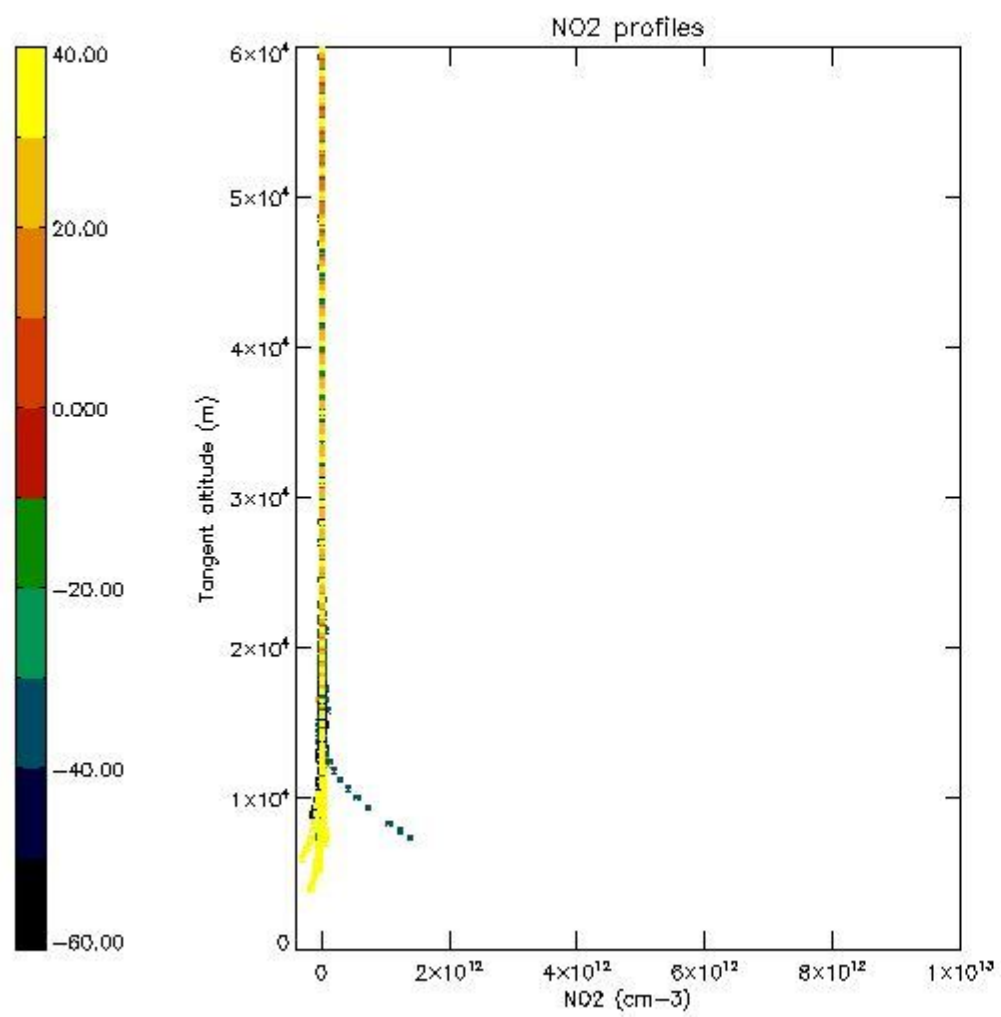
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



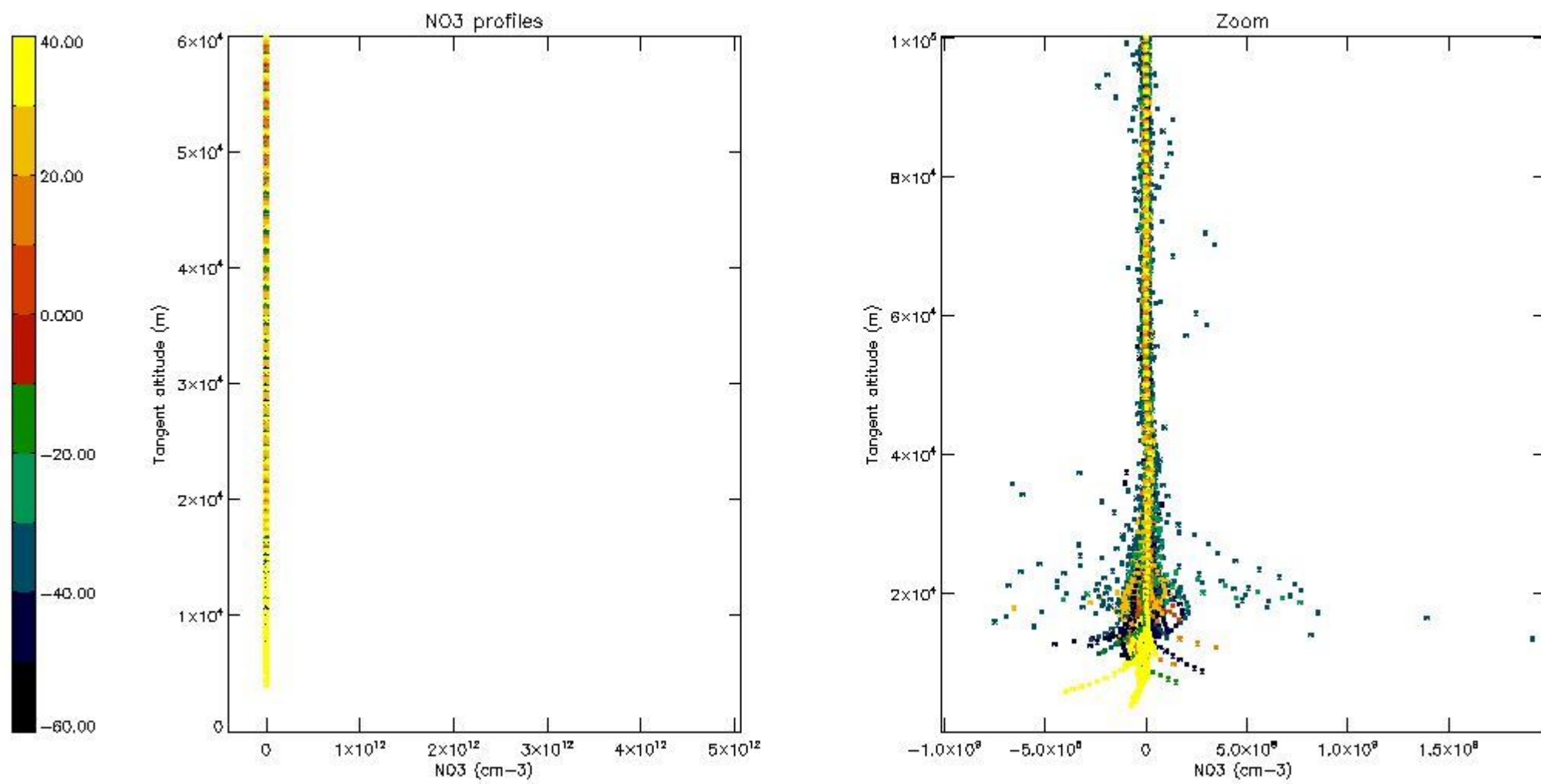
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



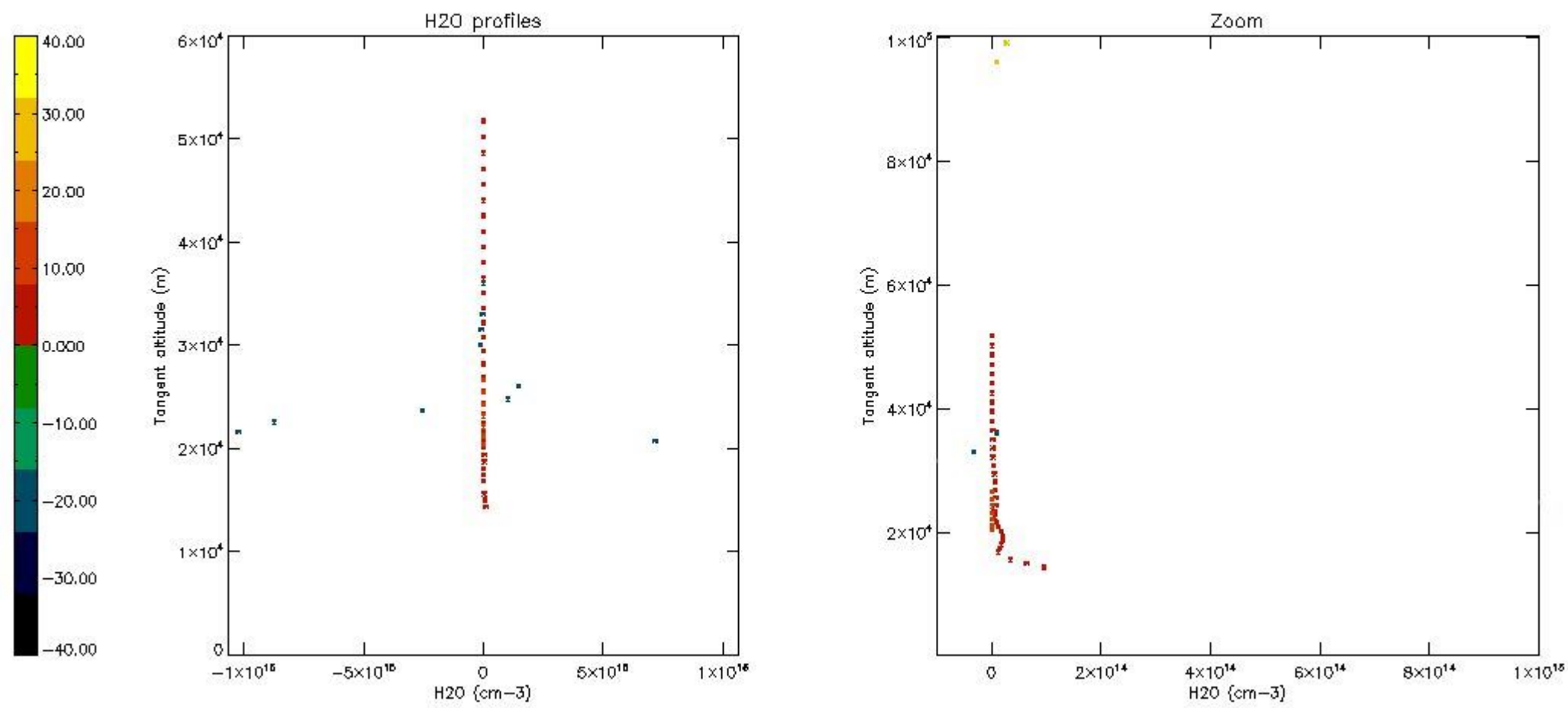
5.7 Plot NO3 profiles for all STD (dark without errors)

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-JAN-2008 00:07:55
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	22-JAN-2008 00:07:55
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	22-JAN-2008 00:07:55

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

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

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

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

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

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

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

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

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[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	25APR2013 09:10:07
Data source version	GOMOS/6.01
Start time of products	22-01-2008 (22JAN2008 00:00:00)
Stop time of products	23-01-2008 (23JAN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	432
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

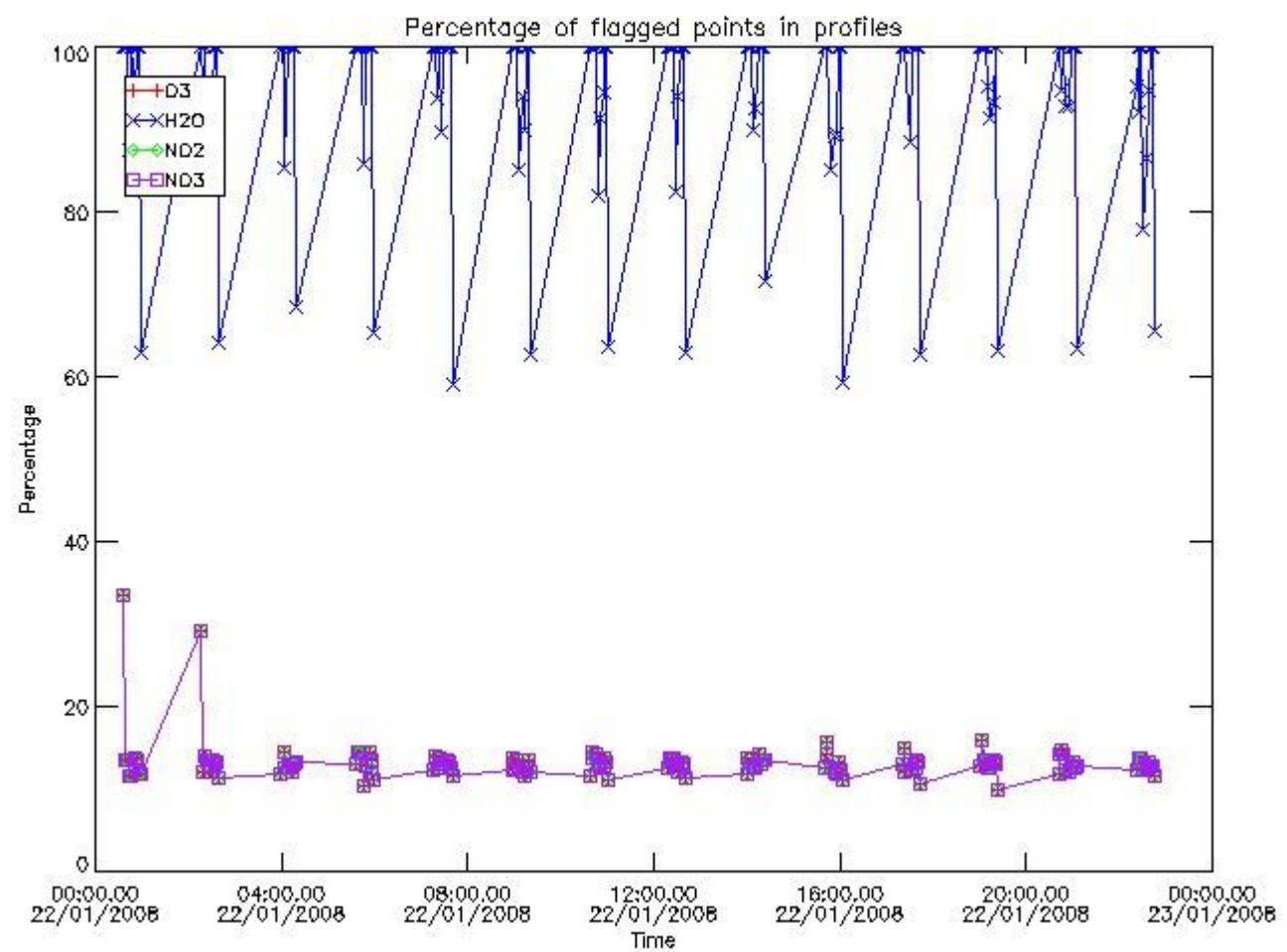
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20080122_000755_000000372065_00202_30817_9919.N1	22-JAN-2008 00:07:55	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	30817	No
2	GOM_NL__2PRFIN20080122_001113_000000362065_00202_30817_9920.N1	22-JAN-2008 00:11:13	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	30817	No
3	GOM_NL__2PRFIN20080122_001911_000000342065_00202_30817_9921.N1	22-JAN-2008 00:19:11	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	30817	No
4	GOM_NL__2PRFIN20080122_002118_000000342065_00202_30817_9922.N1	22-JAN-2008 00:21:18	Bright	33.500	126	60Bet Oph	2.7700	4250.0	67	30817	No
5	GOM_NL__2PRFIN20080122_002724_000000382065_00202_30817_9923.N1	22-JAN-2008 00:27:24	Bright	38.000	86	35Eta Oph	2.4300	10200.	76	30817	No
6	GOM_NL__2PRFIN20080122_003116_000000482065_00202_30817_9924.N1	22-JAN-2008 00:31:16	Twilight	47.500	16	21Alp Sco	1.0200	3000.0	95	30817	No
7	GOM_NL__2PRFIN20080122_003248_000000422065_00202_30817_9925.N1	22-JAN-2008 00:32:48	Twilight	42.000	75	26Eps Sco	2.2910	4250.0	84	30817	No
8	GOM_NL__2PRFIN20080122_003620_000000372065_00202_30817_9926.N1	22-JAN-2008 00:36:20	Dark	36.500	147	Alp Ara	2.8770	26000.	73	30817	No
9	GOM_NL__2PRFIN20080122_003755_000000382065_00202_30817_9927.N1	22-JAN-2008 00:37:55	Dark	37.500	141	Bet Ara	2.8400	4600.0	75	30817	No
10	GOM_NL__2PRFIN20080122_004109_000000382065_00203_30818_9911.N1	22-JAN-2008 00:41:09	Dark	37.500	134	Bet TrA	2.8100	6600.0	75	30818	No
11	GOM_NL__2PRFIN20080122_004328_000000442065_00203_30818_9912.N1	22-JAN-2008 00:43:28	Dark	44.000	10	Bet Cen	0.61000	28000.	88	30818	No
12	GOM_NL__2PRFIN20080122_004656_000000442065_00203_30818_9913.N1	22-JAN-2008 00:46:56	Dark	44.000	12	Alp1Cru	0.77500	30000.	88	30818	No
13	GOM_NL__2PRFIN20080122_005111_000000372065_00203_30818_9914.N1	22-JAN-2008 00:51:11	Dark	37.000	29	Bet Car	1.6720	10200.	74	30818	No
14	GOM_NL__2PRFIN20080122_005317_000000382065_00203_30818_9915.N1	22-JAN-2008 00:53:17	Dark	38.000	71	lot Car	2.2460	7700.0	76	30818	No
15	GOM_NL__2PRFIN20080122_005507_000000432065_00203_30818_9916.N1	22-JAN-2008 00:55:07	Dark	43.000	46	Del Vel	1.9540	10600.	86	30818	No
16	GOM_NL__2PRFIN20080122_005745_000000442065_00203_30818_9917.N1	22-JAN-2008 00:57:45	Dark	43.500	2	Alp Car	-0.73600	7000.0	87	30818	No
17	GOM_NL__2PRFIN20080122_005953_000000392065_00203_30818_9918.N1	22-JAN-2008 00:59:53	Straylight	39.000	70	Zet Pup	2.2460	39000.	78	30818	No
18	GOM_NL__2PRFIN20080122_010125_000000412065_00203_30818_9919.N1	22-JAN-2008 01:01:25	Straylight	41.000	117	Pi Pup	2.7060	3800.0	82	30818	No
19	GOM_NL__2PRFIN20080122_010355_000000422065_00203_30818_9920.N1	22-JAN-2008 01:03:55	Straylight	41.500	23	21Eps CMa	1.5020	26000.	83	30818	No
20	GOM_NL__2PRFIN20080122_010518_000000392065_00203_30818_9921.N1	22-JAN-2008 01:05:18	Straylight	38.500	179	24Omi2CMa	3.0320	24000.	77	30818	No
21	GOM_NL__2PRFIN20080122_010729_000000442065_00203_30818_9922.N1	22-JAN-2008 01:07:29	Straylight	44.000	1	9Alp CMa	-1.4400	11000.	88	30818	No
22	GOM_NL__2PRFIN20080122_011002_000000422065_00203_30818_9923.N1	22-JAN-2008 01:10:02	Straylight	42.000	56	53Kap Ori	2.0650	30000.	84	30818	No
23	GOM_NL__2PRFIN20080122_011231_000000422065_00203_30818_9924.N1	22-JAN-2008 01:12:31	Twilight	42.000	30	46Eps Ori	1.6940	30000.	84	30818	No
24	GOM_NL__2PRFIN20080122_011439_000000482065_00203_30818_9925.N1	22-JAN-2008 01:14:39	Twilight	47.500	14	58Alp Ori	0.87000	3000.0	95	30818	No
25	GOM_NL__2PRFIN20080122_011654_000000462065_00203_30818_9926.N1	22-JAN-2008 01:16:54	Bright	45.500	44	24Gam Gem	1.9280	11000.	91	30818	No
26	GOM_NL__2PRFIN20080122_011840_000000402065_00203_30818_9927.N1	22-JAN-2008 01:18:40	Bright	40.000	151	13Mu Gem	2.8900	3000.0	80	30818	No
27	GOM_NL__2PRFIN20080122_012049_000000372065_00203_30818_9928.N1	22-JAN-2008 01:20:49	Bright	37.000	28	12Bet Tau	1.6500	15200.	74	30818	No
28	GOM_NL__2PRFIN20080122_012252_000000342065_00203_30818_9929.N1	22-JAN-2008 01:22:52	Bright	34.000	107	37The Aur	2.6490	11000.	68	30818	No
29	GOM_NL__2PRFIN20080122_012501_000000362065_00203_30818_9930.N1	22-JAN-2008 01:25:01	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	30818	No
30	GOM_NL__2PRFIN20080122_013734_000000332065_00203_30818_9931.N1	22-JAN-2008 01:37:34	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	30818	No
31	GOM_NL__2PRFIN20080122_014831_000000352065_00203_30818_9932.N1	22-JAN-2008 01:48:31	Bright	35.000	130	23Bet Dra	2.7990	5800.0	70	30818	No
32	GOM_NL__2PRFIN20080122_015149_000000362065_00203_30818_9933.N1	22-JAN-2008 01:51:49	Bright	36.000	5	3Alp Lyr	0.033000	11000.	72	30818	No
33	GOM_NL__2PRFIN20080122_015947_000000342065_00203_30818_9934.N1	22-JAN-2008 01:59:47	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	30818	No
34	GOM_NL__2PRFIN20080122_020154_000000332065_00203_30818_9935.N1	22-JAN-2008 02:01:54	Bright	33.000	126	60Bet Oph	2.7700	4250.0	66	30818	No
35	GOM_NL__2PRFIN20080122_020801_000000372065_00203_30818_9936.N1	22-JAN-2008 02:08:01	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	30818	No
36	GOM_NL__2PRFIN20080122_021152_000000462065_00203_30818_9937.N1	22-JAN-2008 02:11:52	Twilight	46.000	16	21Alp Sco	1.0200	3000.0	92	30818	No
37	GOM_NL__2PRFIN20080122_021324_000000422065_00203_30818_9938.N1	22-JAN-2008 02:13:24	Twilight	41.500	75	26Eps Sco	2.2910	4250.0	83	30818	No
38	GOM_NL__2PRFIN20080122_021656_000000372065_00203_30818_9939.N1	22-JAN-2008 02:16:56	Dark	36.500	147	Alp Ara	2.8770	26000.	73	30818	No
39	GOM_NL__2PRFIN20080122_021831_000000422065_00203_30818_9940.N1	22-JAN-2008 02:18:31	Dark	42.000	141	Bet Ara	2.8400	4600.0	84	30818	No
40	GOM_NL__2PRFIN20080122_022145_000000372065_00204_30819_9930.N1	22-JAN-2008 02:21:45	Dark	36.500	134	Bet TrA	2.8100	6600.0	73	30819	No
41	GOM_NL__2PRFIN20080122_022405_000000422065_00204_30819_9931.N1	22-JAN-2008 02:24:05	Dark	41.500	10	Bet Cen	0.61000	28000.	83	30819	No
42	GOM_NL__2PRFIN20080122_022732_000000432065_00204_30819_9932.N1	22-JAN-2008 02:27:32	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	30819	No

397	GOM_NL__2PRFIN20080122_215902_000000352065_00215_30830_0117.N1	22-JAN-2008 21:59:02	Bright	35.000	5	3Alp Lyr	0.033000	11000.	70	30830	No
398	GOM_NL__2PRFIN20080122_220701_000000342065_00215_30830_0118.N1	22-JAN-2008 22:07:01	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	30830	No
399	GOM_NL__2PRFIN20080122_220908_000000342065_00215_30830_0119.N1	22-JAN-2008 22:09:08	Bright	34.000	126	60Bet Oph	2.7700	4250.0	68	30830	No
400	GOM_NL__2PRFIN20080122_221516_000000372065_00215_30830_0120.N1	22-JAN-2008 22:15:16	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	30830	No
401	GOM_NL__2PRFIN20080122_221910_000000502065_00215_30830_0121.N1	22-JAN-2008 22:19:10	Twilight	50.000	16	21Alp Sco	1.0200	3000.0	100	30830	No
402	GOM_NL__2PRFIN20080122_222040_000000442065_00215_30830_0122.N1	22-JAN-2008 22:20:40	Twilight	43.500	75	26Eps Sco	2.2910	4250.0	87	30830	No
403	GOM_NL__2PRFIN20080122_222213_000000422065_00215_30830_0123.N1	22-JAN-2008 22:22:13	Dark	41.500	40	The Sco	1.8590	7100.0	83	30830	No
404	GOM_NL__2PRFIN20080122_222409_000000372065_00215_30830_0124.N1	22-JAN-2008 22:24:09	Dark	37.000	147	Alp Ara	2.8770	26000.	74	30830	No
405	GOM_NL__2PRFIN20080122_222544_000000392065_00215_30830_0125.N1	22-JAN-2008 22:25:44	Dark	38.500	141	Bet Ara	2.8400	4600.0	77	30830	No
406	GOM_NL__2PRFIN20080122_222900_000000372065_00216_30831_0109.N1	22-JAN-2008 22:29:00	Dark	37.000	134	Bet TrA	2.8100	6600.0	74	30831	No
407	GOM_NL__2PRFIN20080122_223123_000000462065_00216_30831_0110.N1	22-JAN-2008 22:31:23	Dark	45.500	10	Bet Cen	0.61000	28000.	91	30831	No
408	GOM_NL__2PRFIN20080122_223450_000000412065_00216_30831_0111.N1	22-JAN-2008 22:34:50	Dark	41.000	12	Alp1Cru	0.77500	30000.	82	30831	No
409	GOM_NL__2PRFIN20080122_223902_000000392065_00216_30831_0112.N1	22-JAN-2008 22:39:02	Dark	38.500	29	Bet Car	1.6720	10200.	77	30831	No
410	GOM_NL__2PRFIN20080122_224109_000000402065_00216_30831_0113.N1	22-JAN-2008 22:41:09	Dark	40.000	71	lot Car	2.2460	7700.0	80	30831	No
411	GOM_NL__2PRFIN20080122_224259_000000402065_00216_30831_0114.N1	22-JAN-2008 22:42:59	Dark	40.000	46	Del Vel	1.9540	10600.	80	30831	No
412	GOM_NL__2PRFIN20080122_224534_000000442065_00216_30831_0115.N1	22-JAN-2008 22:45:34	Dark	44.000	2	Alp Car	-0.73600	7000.0	88	30831	No
413	GOM_NL__2PRFIN20080122_224744_000000392065_00216_30831_0116.N1	22-JAN-2008 22:47:44	Straylight	39.000	70	Zet Pup	2.2460	39000.	78	30831	No
414	GOM_NL__2PRFIN20080122_224915_000000432065_00216_30831_0117.N1	22-JAN-2008 22:49:15	Straylight	43.000	117	Pi Pup	2.7060	3800.0	86	30831	No
415	GOM_NL__2PRFIN20080122_225145_000000432065_00216_30831_0118.N1	22-JAN-2008 22:51:45	Straylight	42.500	23	21Eps CMa	1.5020	26000.	85	30831	No
416	GOM_NL__2PRFIN20080122_225308_000000392065_00216_30831_0119.N1	22-JAN-2008 22:53:08	Straylight	38.500	179	24Omi2CMa	3.0320	24000.	77	30831	No
417	GOM_NL__2PRFIN20080122_225518_000000432065_00216_30831_0120.N1	22-JAN-2008 22:55:18	Straylight	43.000	1	9Alp CMa	-1.4400	11000.	86	30831	No
418	GOM_NL__2PRFIN20080122_225751_000000402065_00216_30831_0121.N1	22-JAN-2008 22:57:51	Tw_i_and_stray	39.500	56	53Kap Ori	2.0650	30000.	79	30831	No
419	GOM_NL__2PRFIN20080122_230005_000000422065_00216_30831_0122.N1	22-JAN-2008 23:00:05	Tw_i_and_stray	42.000	33	50Zet Ori	1.7660	30000.	84	30831	No
420	GOM_NL__2PRFIN20080122_230229_000000452065_00216_30831_0123.N1	22-JAN-2008 23:02:29	Tw_i_and_stray	45.000	14	58Alp Ori	0.87000	3000.0	90	30831	No
421	GOM_NL__2PRFIN20080122_230442_000000452065_00216_30831_0124.N1	22-JAN-2008 23:04:42	Bright	44.500	44	24Gam Gem	1.9280	11000.	89	30831	No
422	GOM_NL__2PRFIN20080122_230628_000000392065_00216_30831_0125.N1	22-JAN-2008 23:06:28	Bright	38.500	151	13Mu Gem	2.8900	3000.0	77	30831	No
423	GOM_NL__2PRFIN20080122_230839_000000362065_00216_30831_0126.N1	22-JAN-2008 23:08:39	Bright	35.500	28	12Bet Tau	1.6500	15200.	71	30831	No
424	GOM_NL__2PRFIN20080122_231040_000000362065_00216_30831_0127.N1	22-JAN-2008 23:10:40	Bright	35.500	107	37The Aur	2.6490	11000.	71	30831	No
425	GOM_NL__2PRFIN20080122_231249_000000362065_00216_30831_0128.N1	22-JAN-2008 23:12:49	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	30831	No
426	GOM_NL__2PRFIN20080122_232521_000000352065_00216_30831_0129.N1	22-JAN-2008 23:25:21	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	30831	No
427	GOM_NL__2PRFIN20080122_233619_000000532065_00216_30831_0130.N1	22-JAN-2008 23:36:19	Bright	53.000	130	23Bet Dra	2.7990	5800.0	106	30831	No
428	GOM_NL__2PRFIN20080122_233938_000000352065_00216_30831_0131.N1	22-JAN-2008 23:39:38	Bright	35.000	5	3Alp Lyr	0.033000	11000.	70	30831	No
429	GOM_NL__2PRFIN20080122_234738_000000342065_00216_30831_0132.N1	22-JAN-2008 23:47:38	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	30831	No
430	GOM_NL__2PRFIN20080122_234944_000000342065_00216_30831_0133.N1	22-JAN-2008 23:49:44	Bright	34.000	126	60Bet Oph	2.7700	4250.0	68	30831	No
431	GOM_NL__2PRFIN20080122_235552_000000382065_00216_30831_0134.N1	22-JAN-2008 23:55:52	Bright	38.000	86	35Eta Oph	2.4300	10200.	76	30831	No
432	GOM_NL__2PRFIN20080122_235946_000000482065_00216_30831_0135.N1	22-JAN-2008 23:59:46	Twilight	48.000	16	21Alp Sco	1.0200	3000.0	96	30831	No

3. Quality information per product

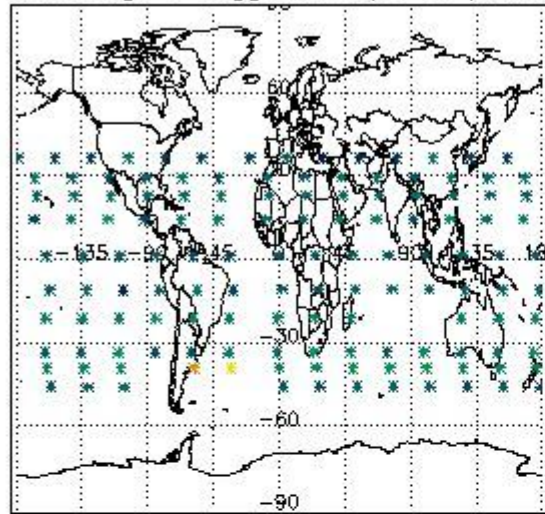
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

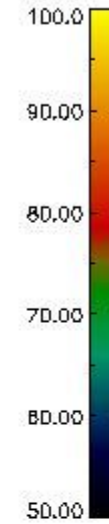
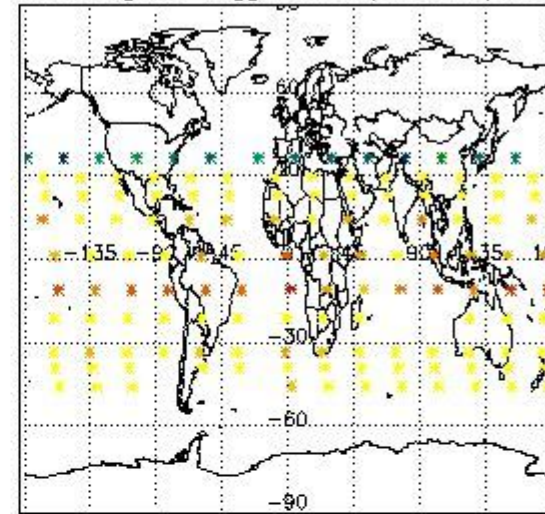


3.2 Plot quality information per product (world map)

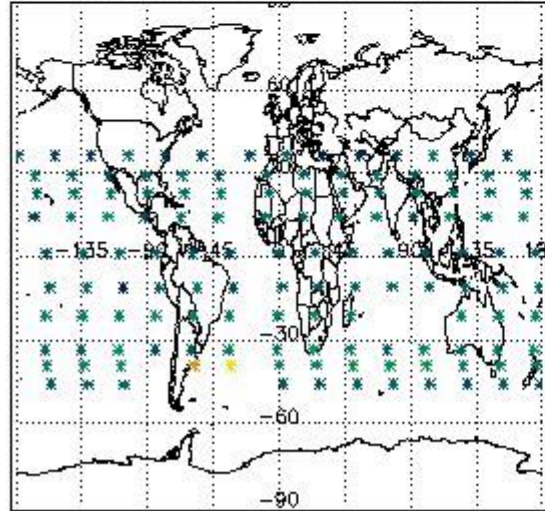
Percentage of flagged data per O3 profile



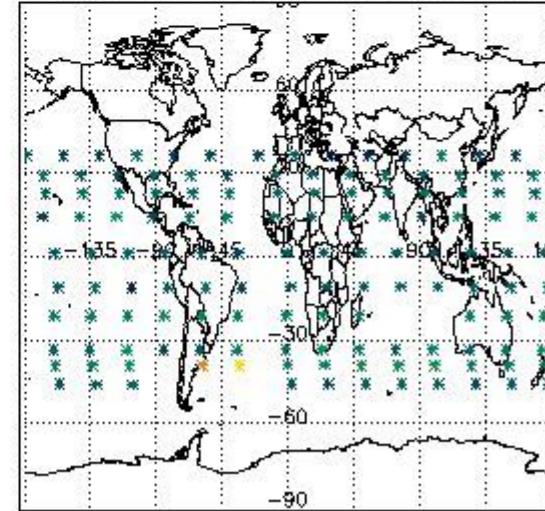
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

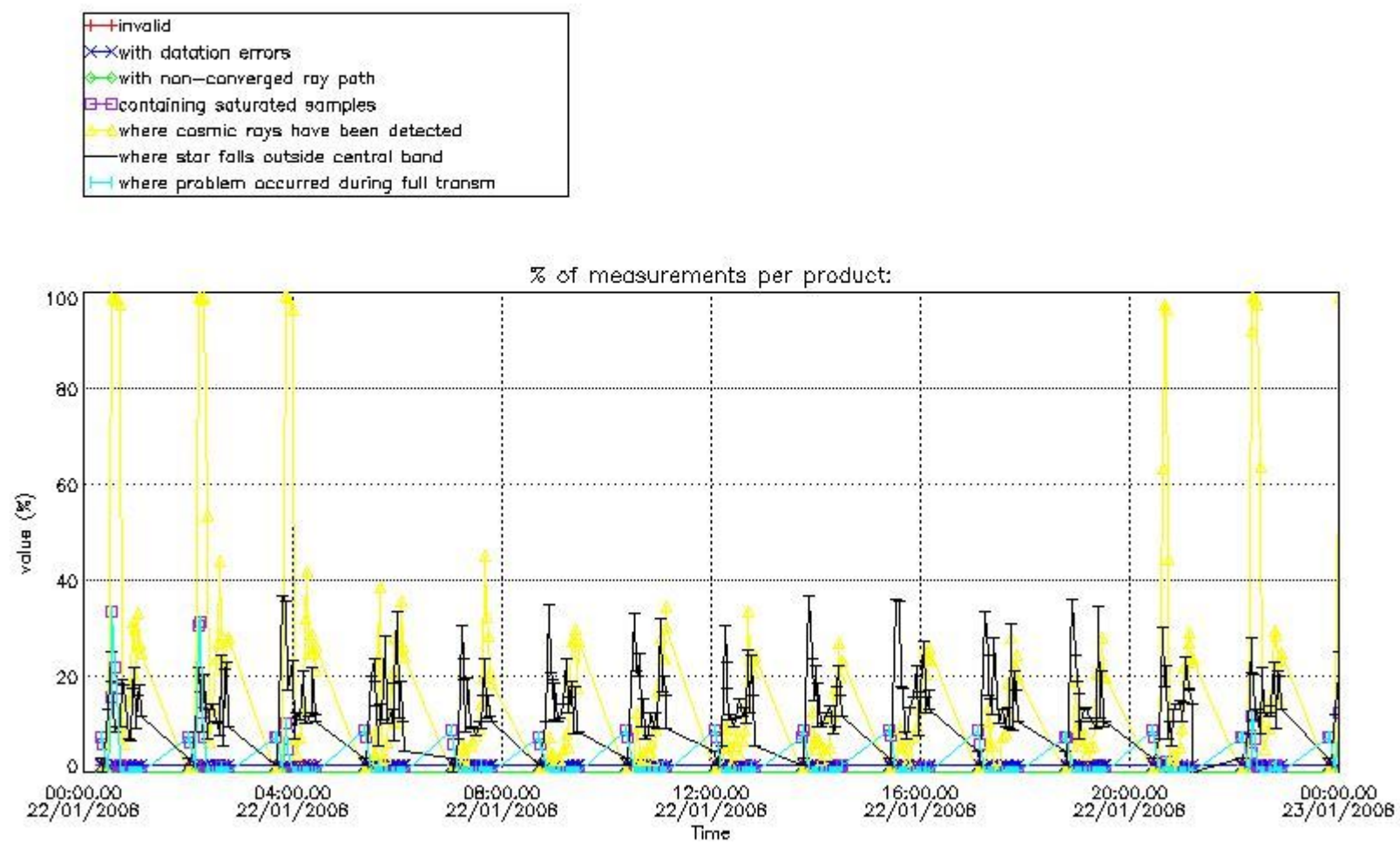


4. Level 1 quality information per product

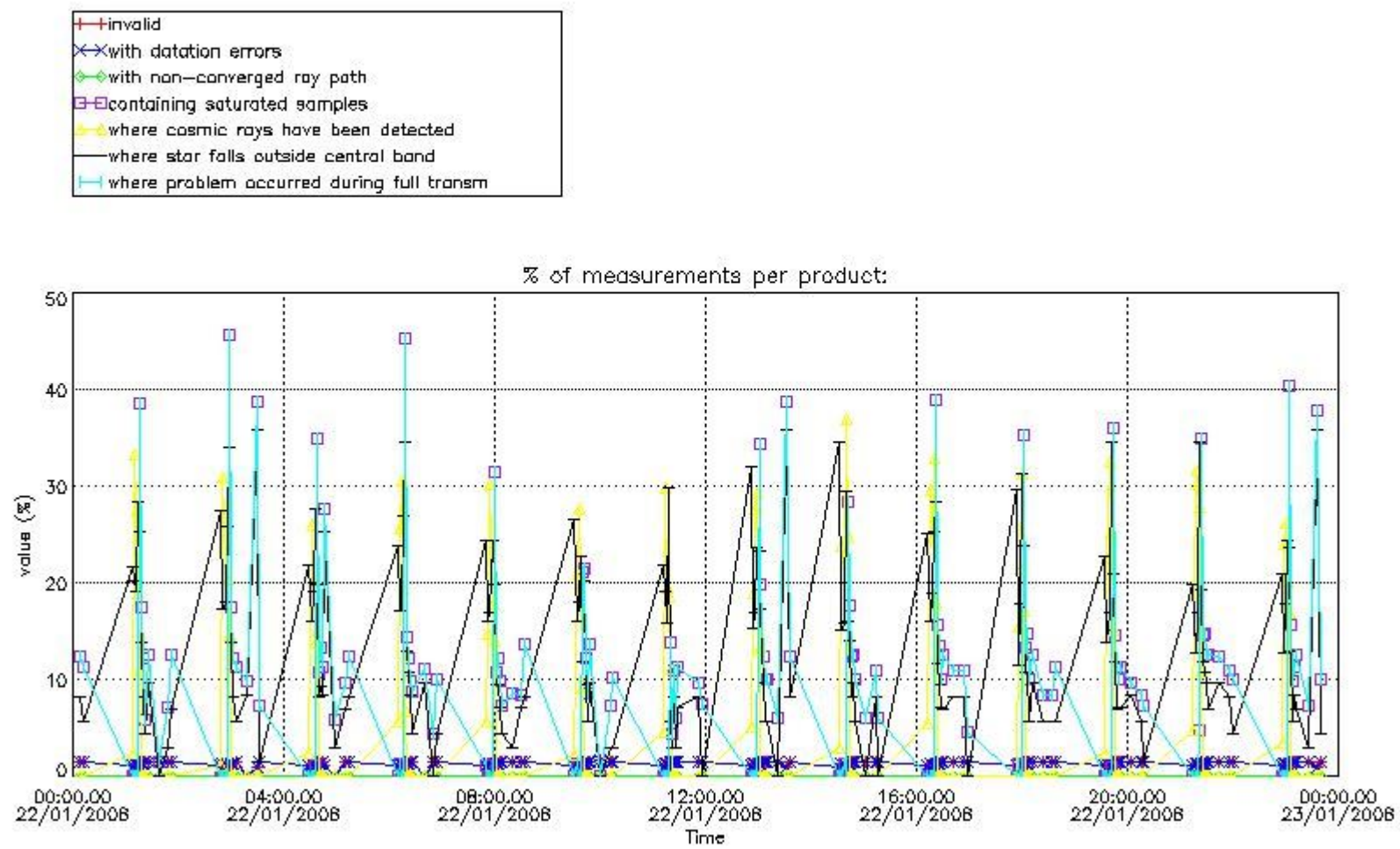
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

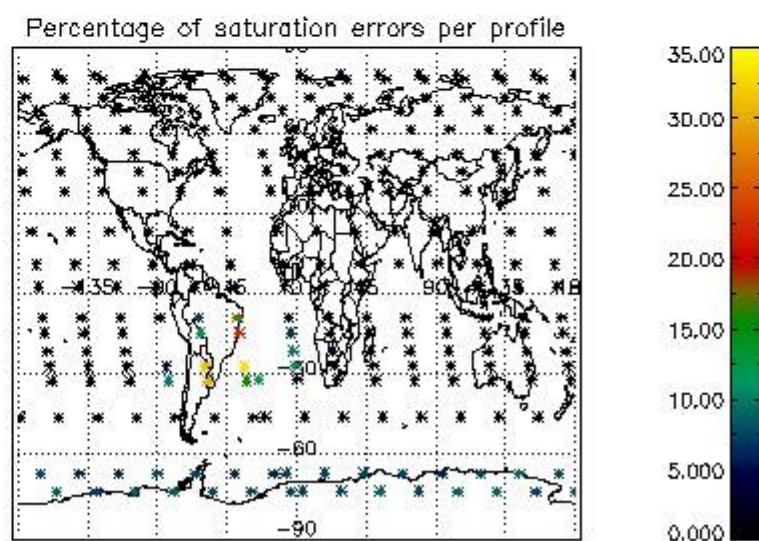
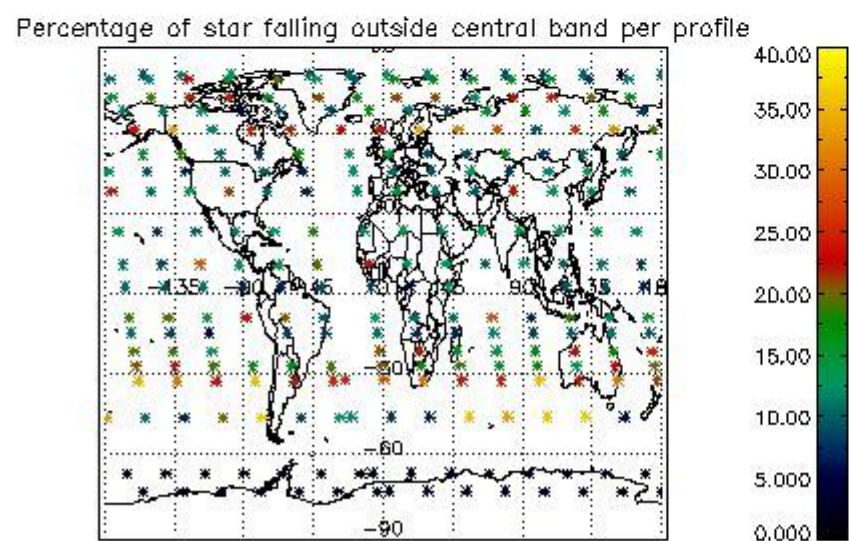
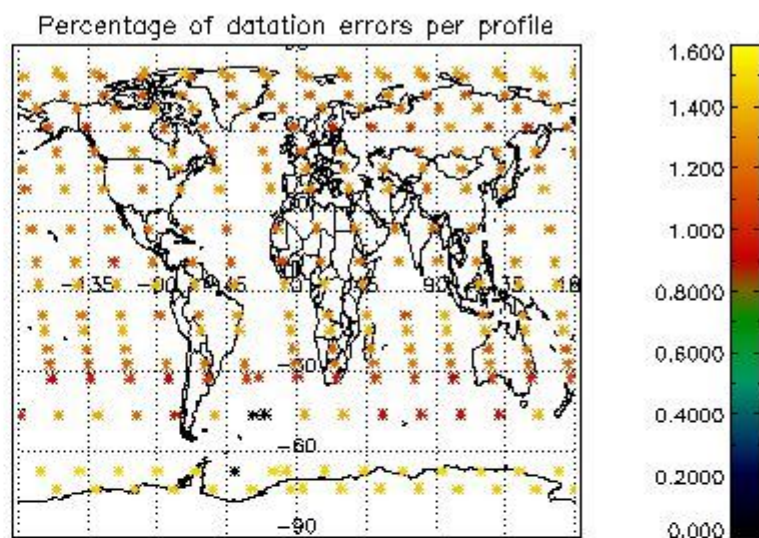
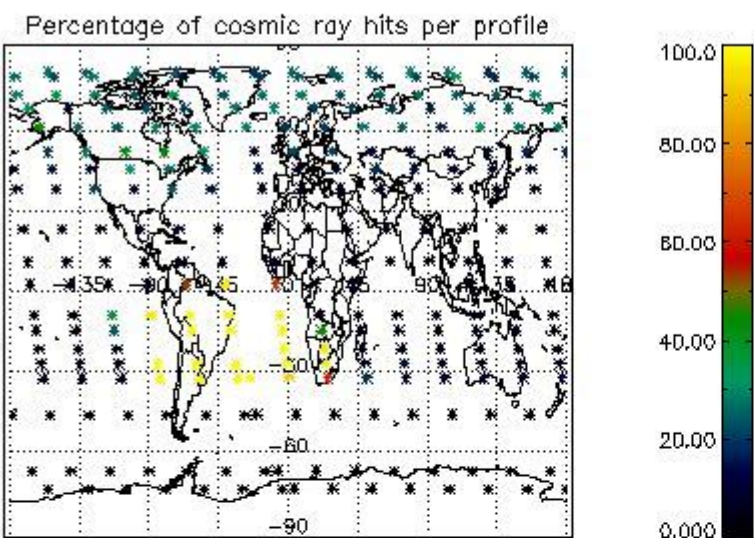


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

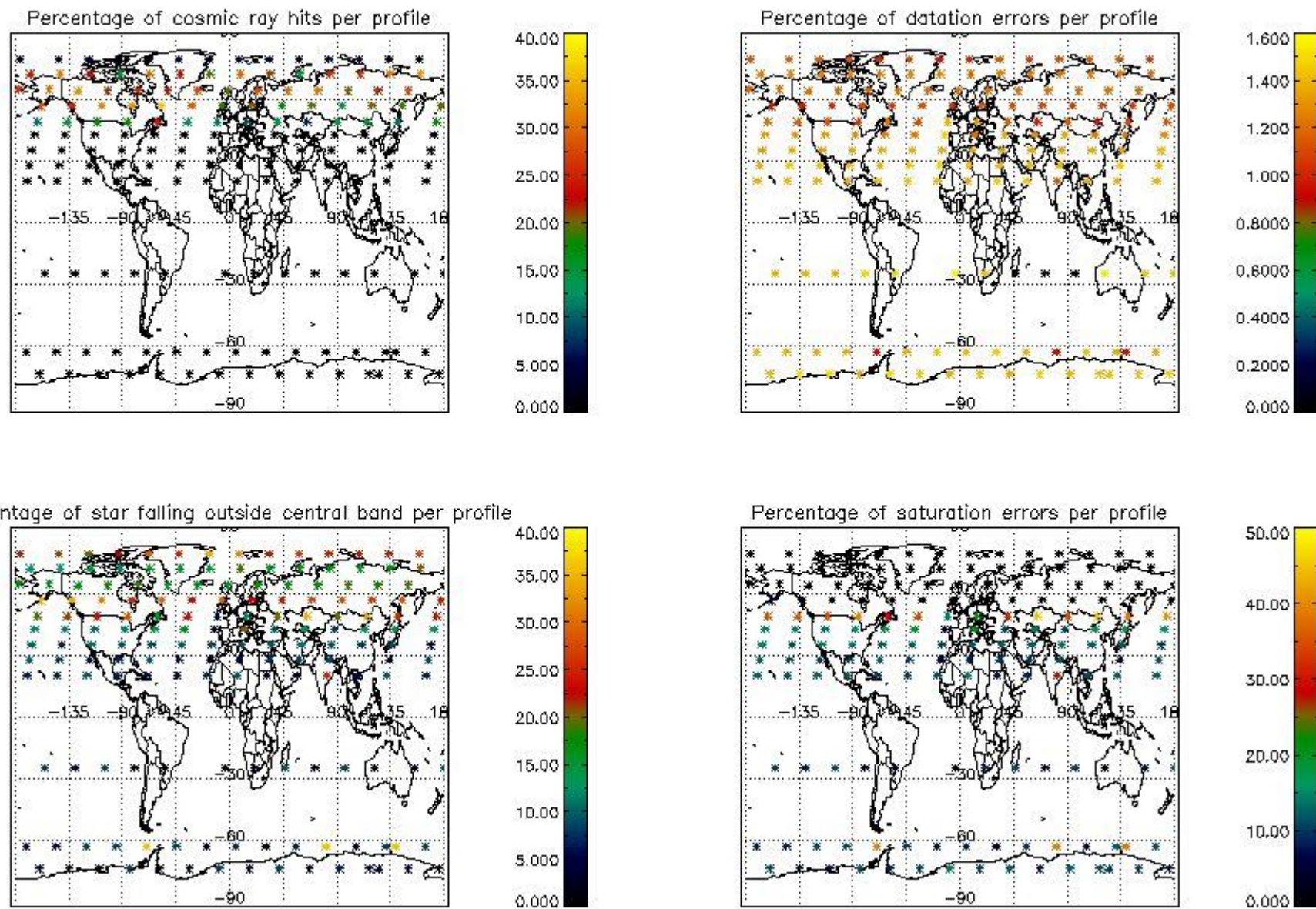


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

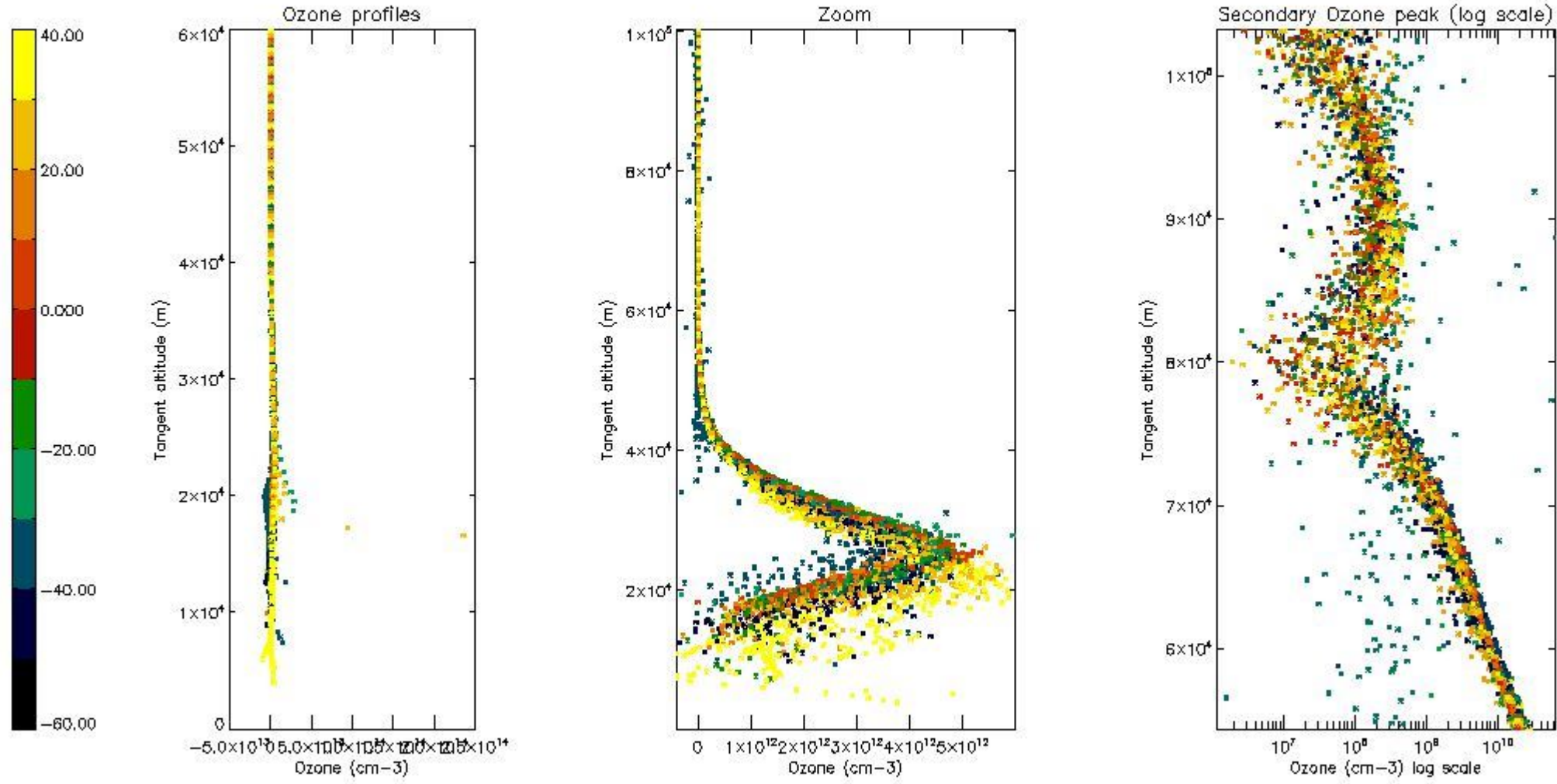
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	32
STD < 20	18

STD < 10	14
STD < 5	9

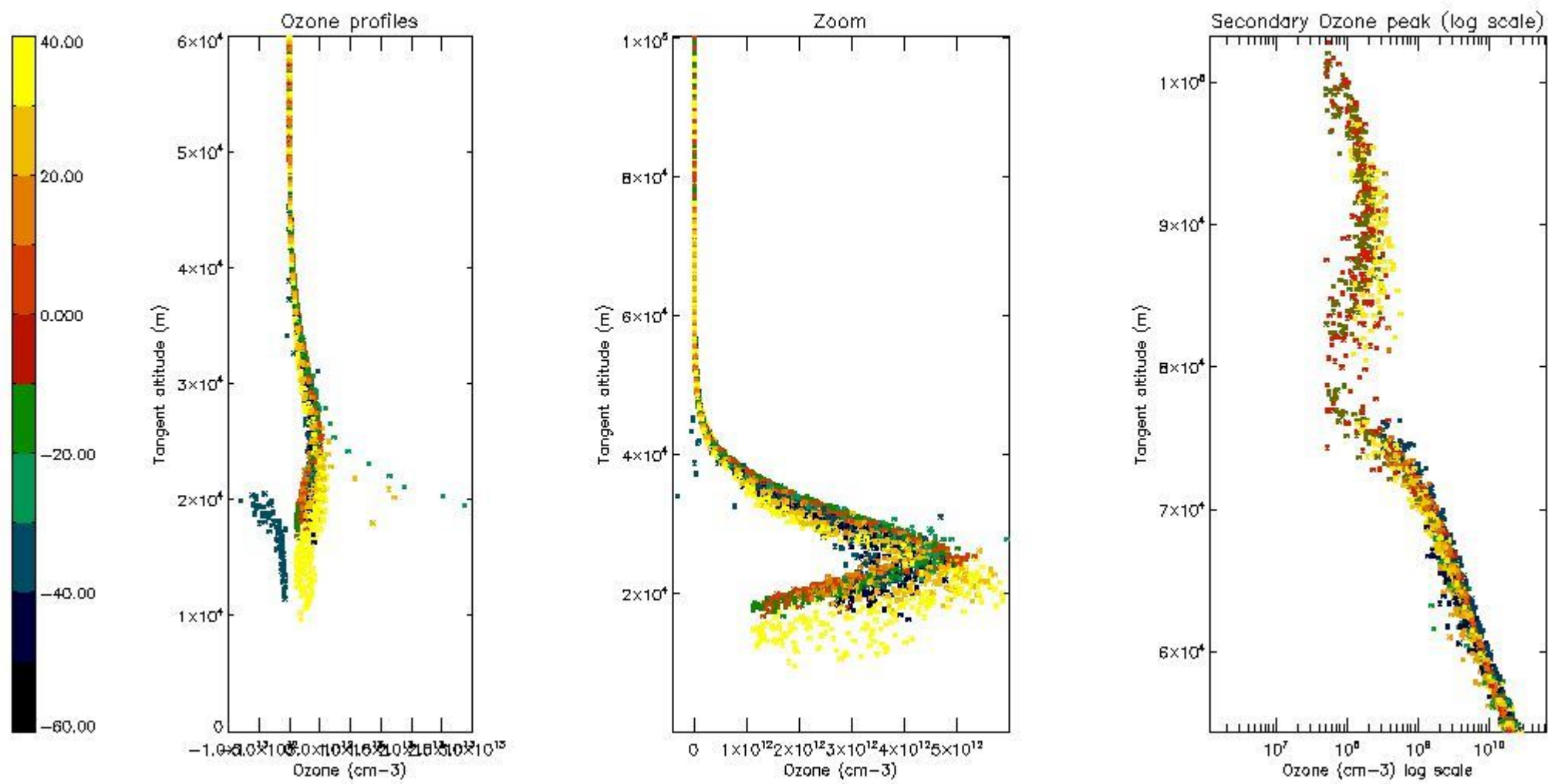
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



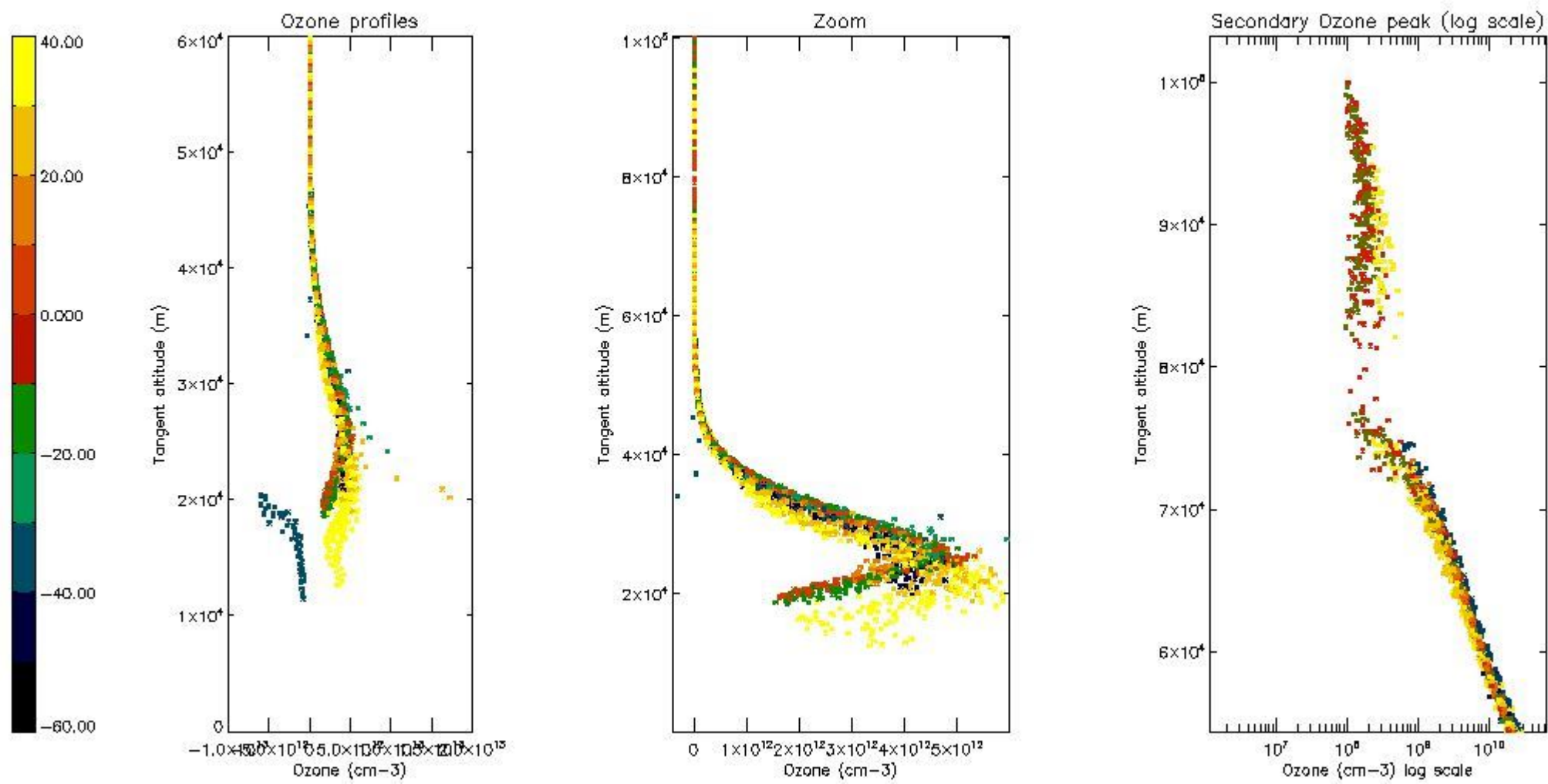
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



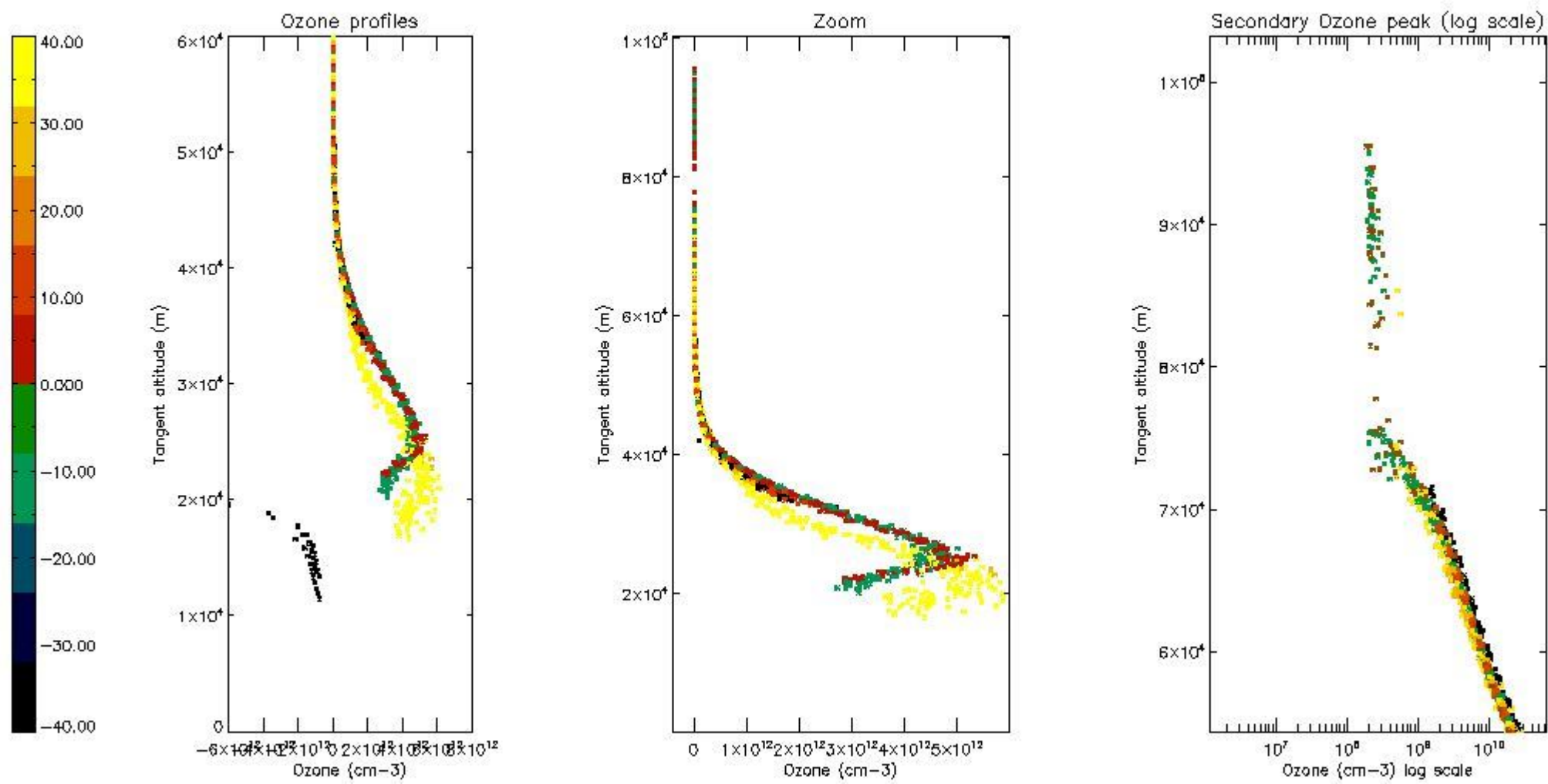
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



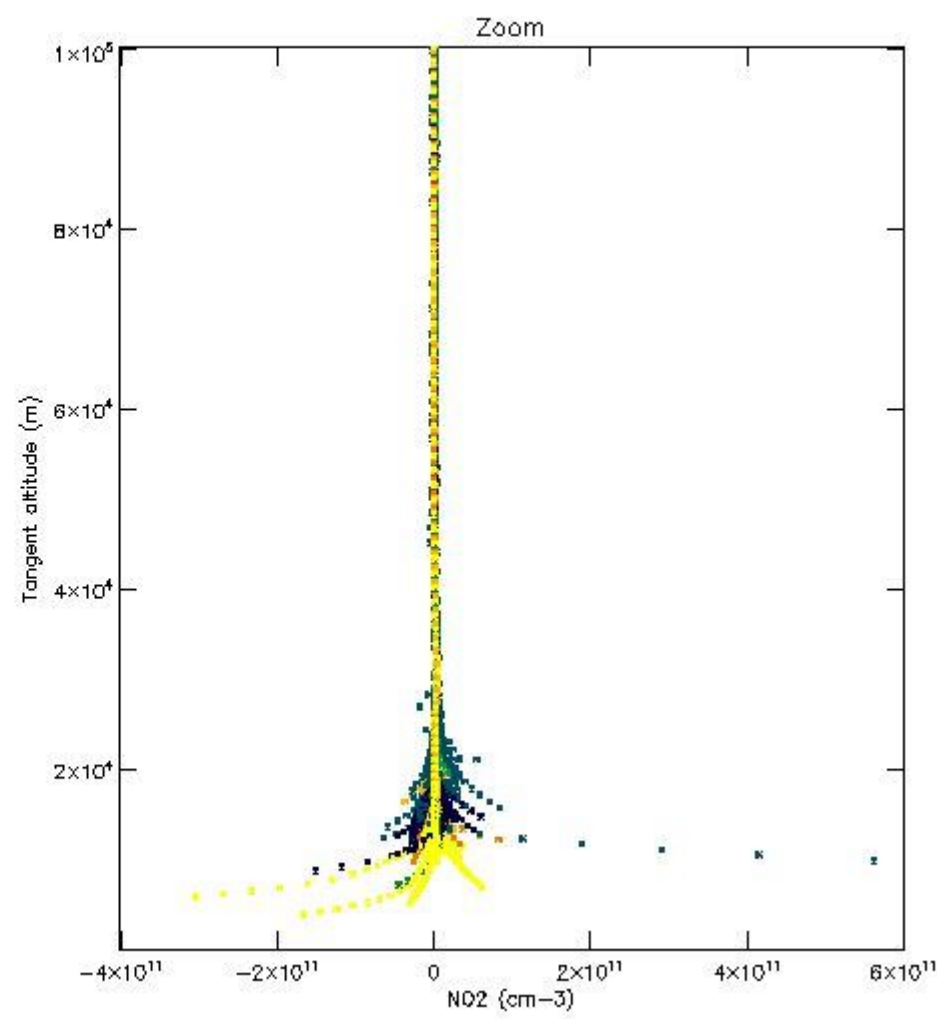
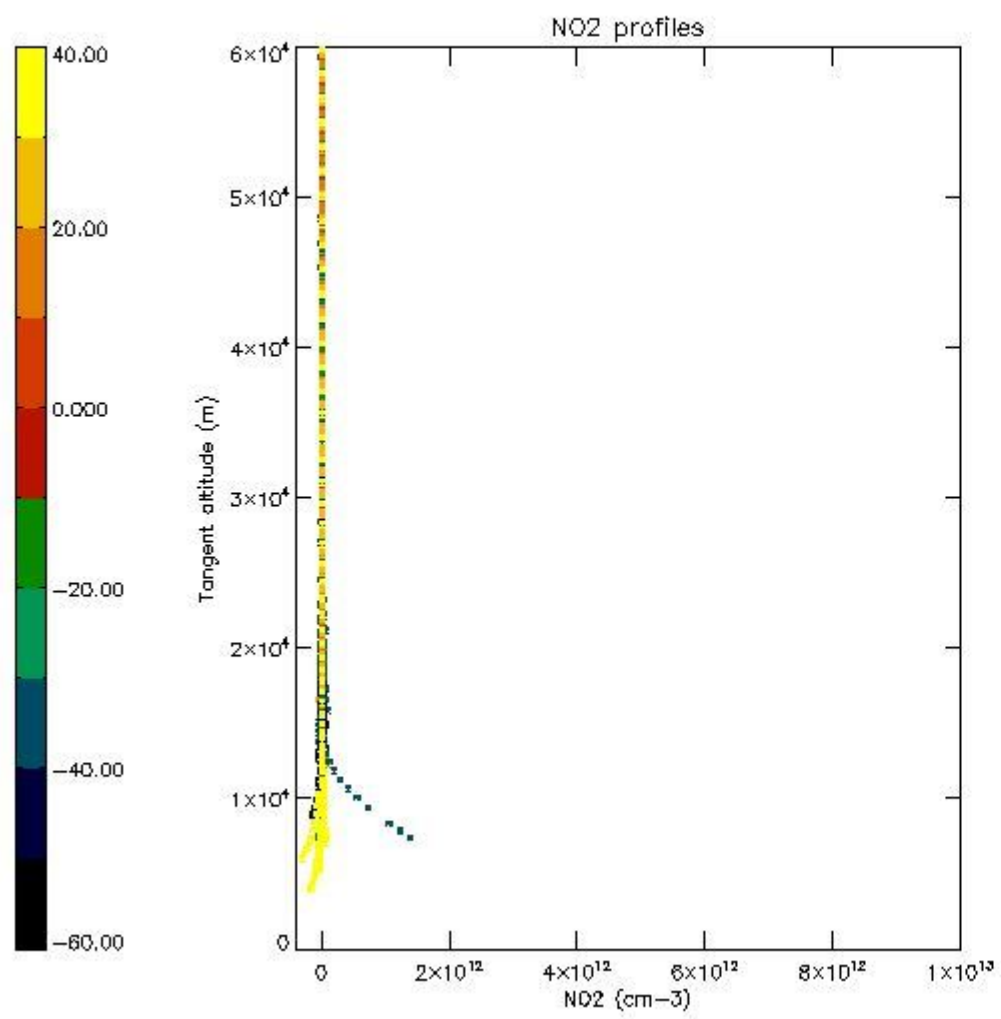
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



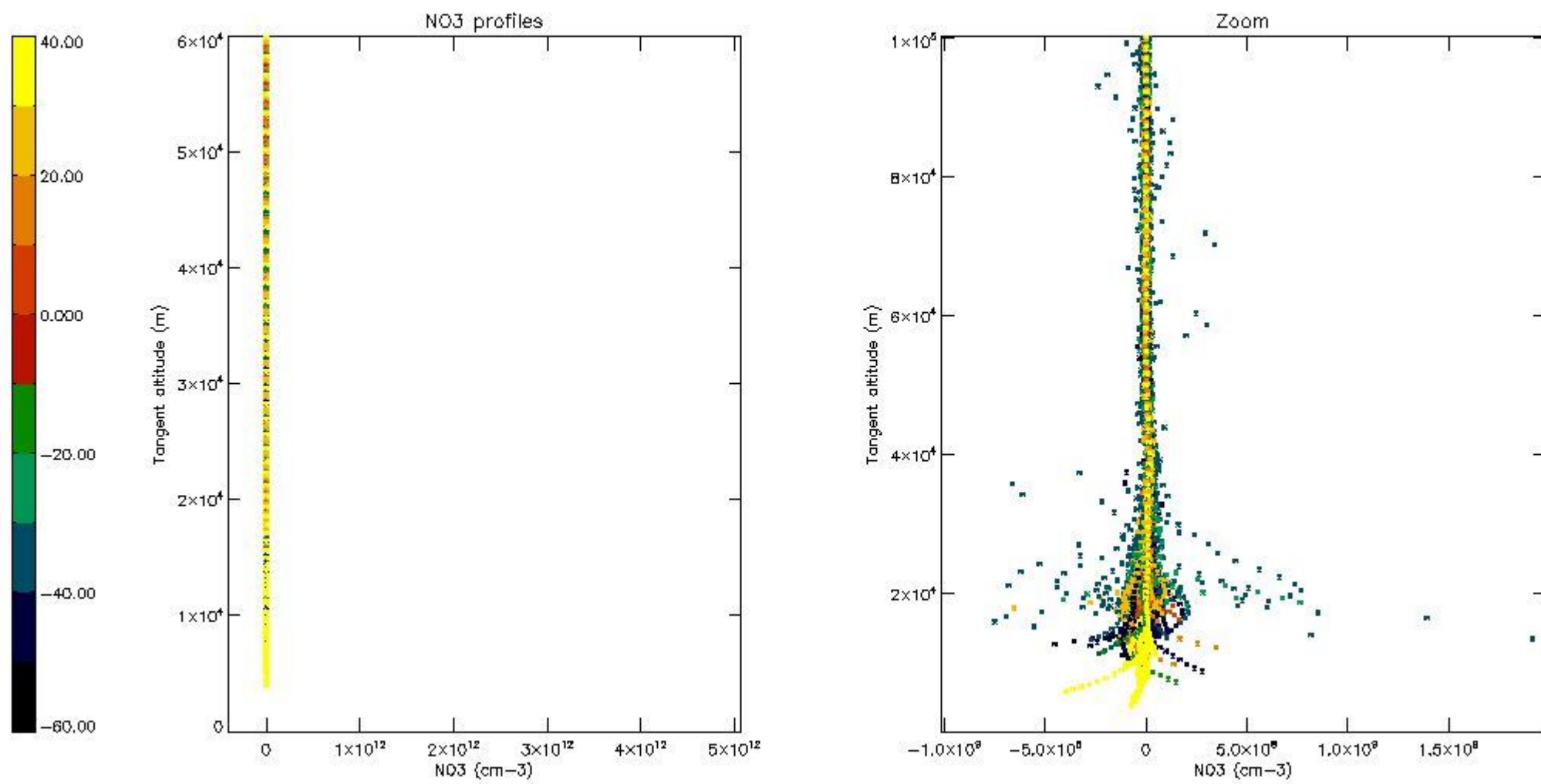
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



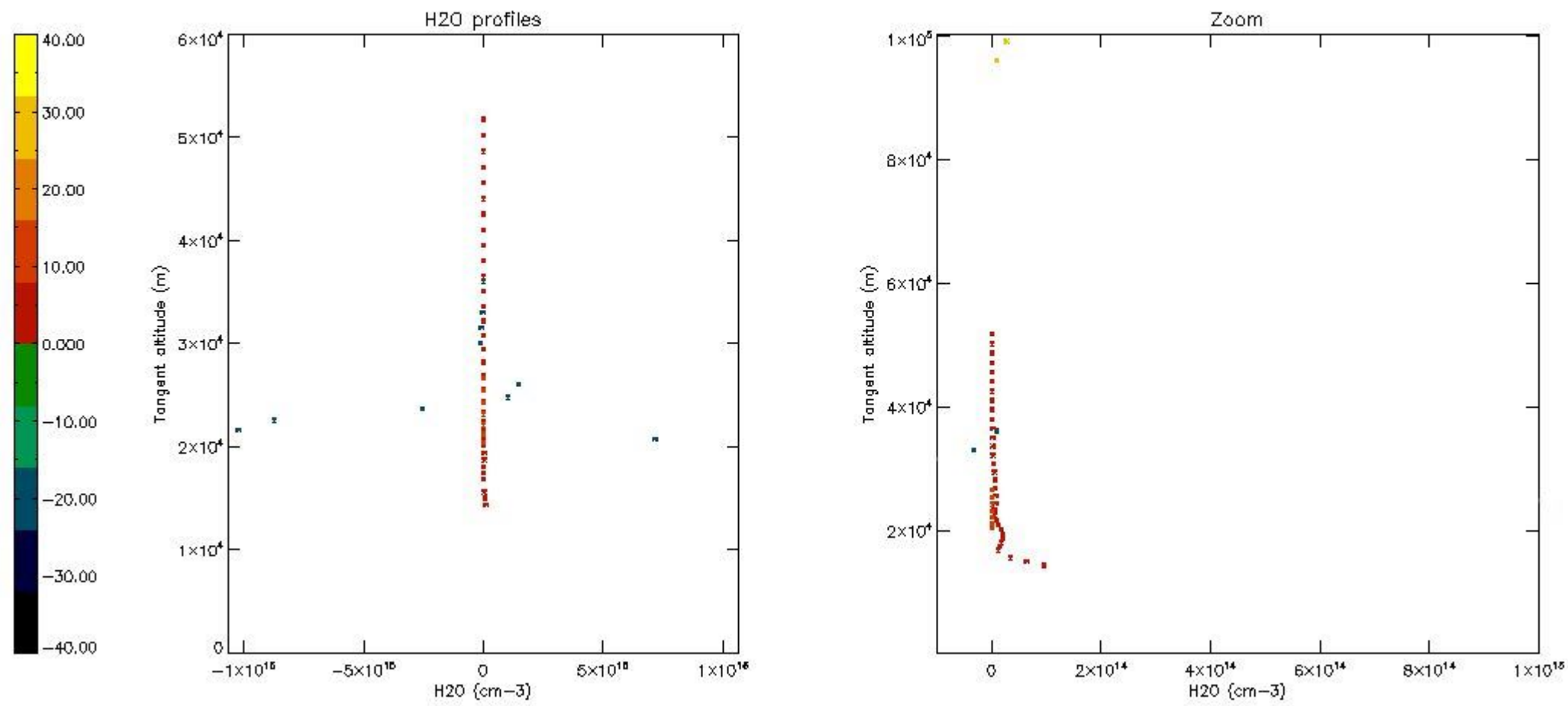
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

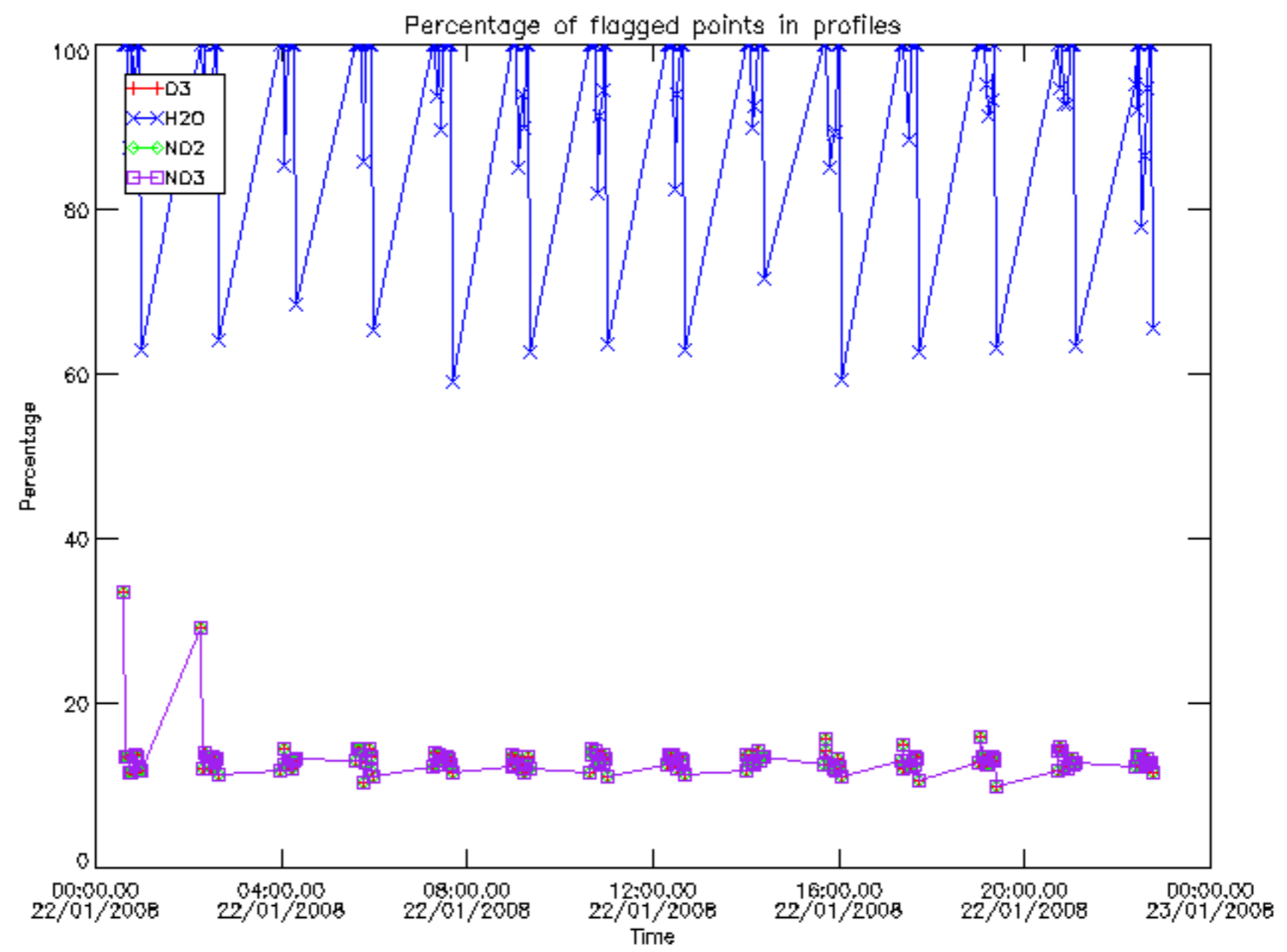
The colorbar represents the latitude.



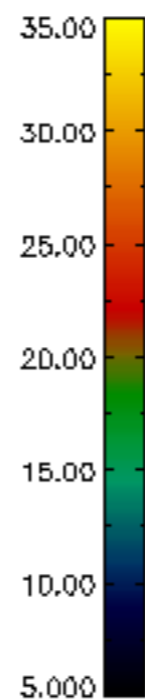
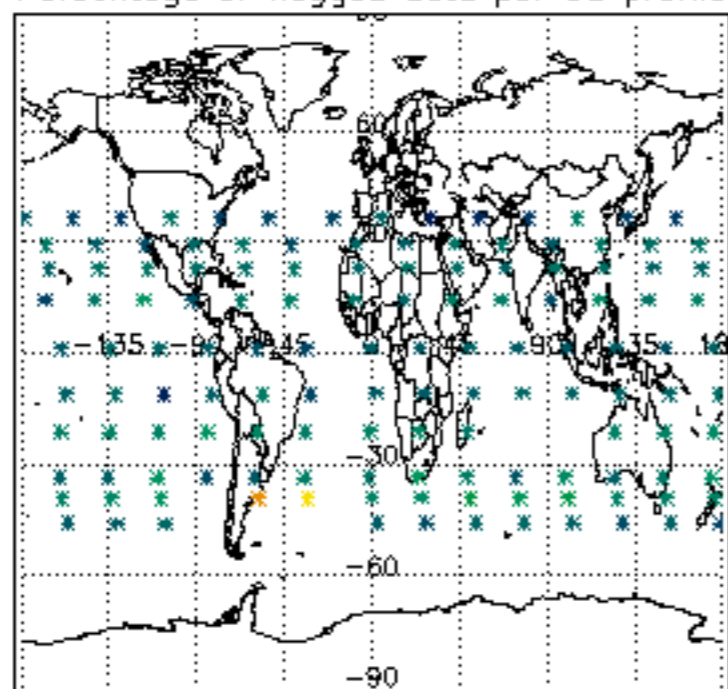
6. Auxiliary Data Files used for the production reported in section 2

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.

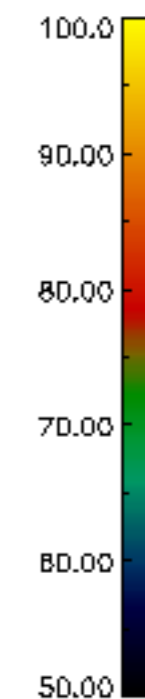
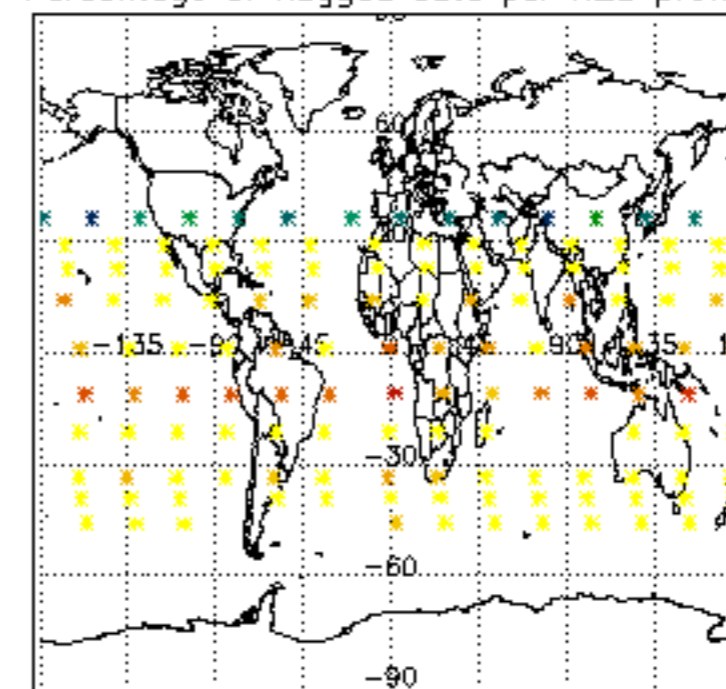
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	22-JAN-2008 00:07:55
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	22-JAN-2008 00:07:55
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	22-JAN-2008 00:07:55



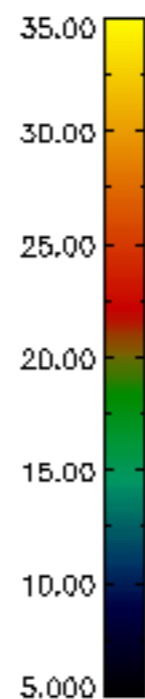
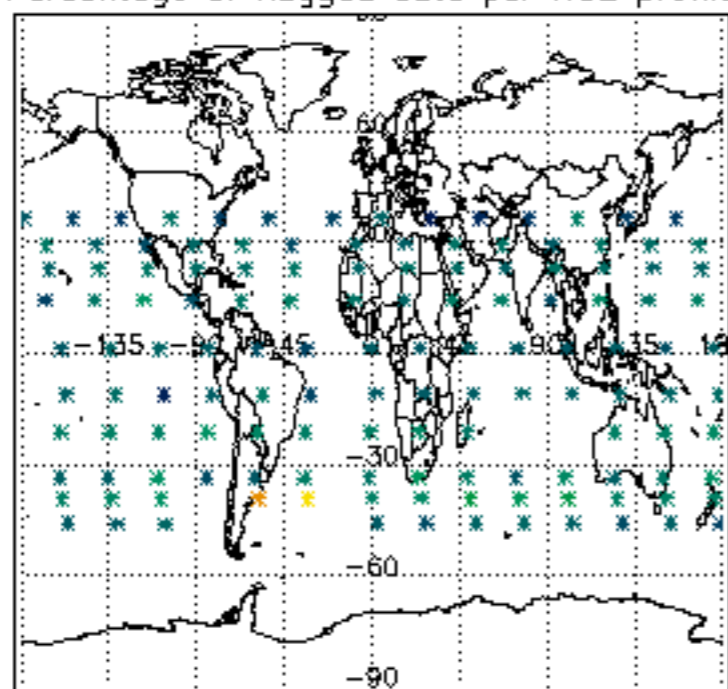
Percentage of flagged data per D3 profile



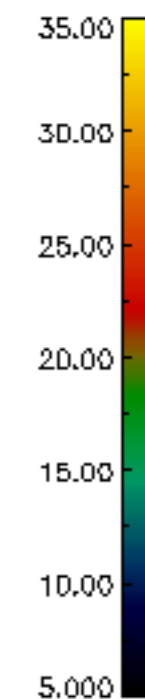
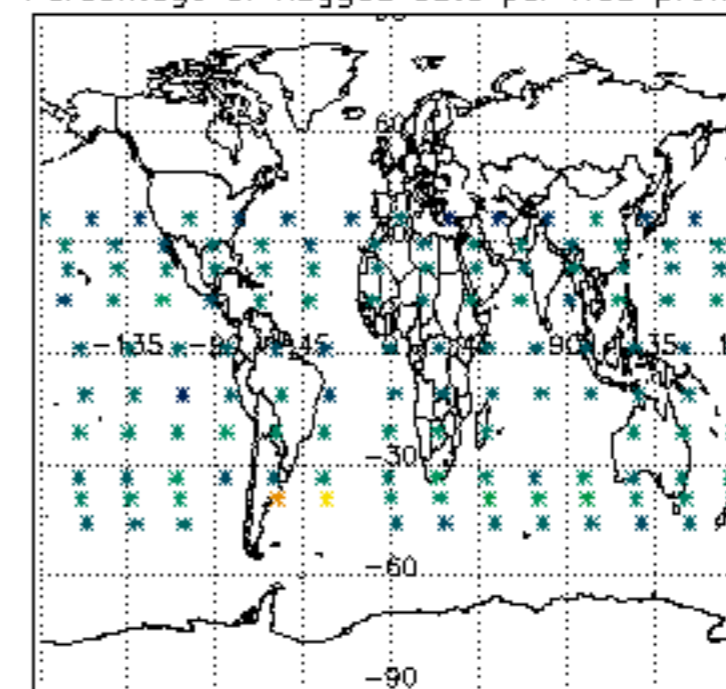
Percentage of flagged data per H2O profile

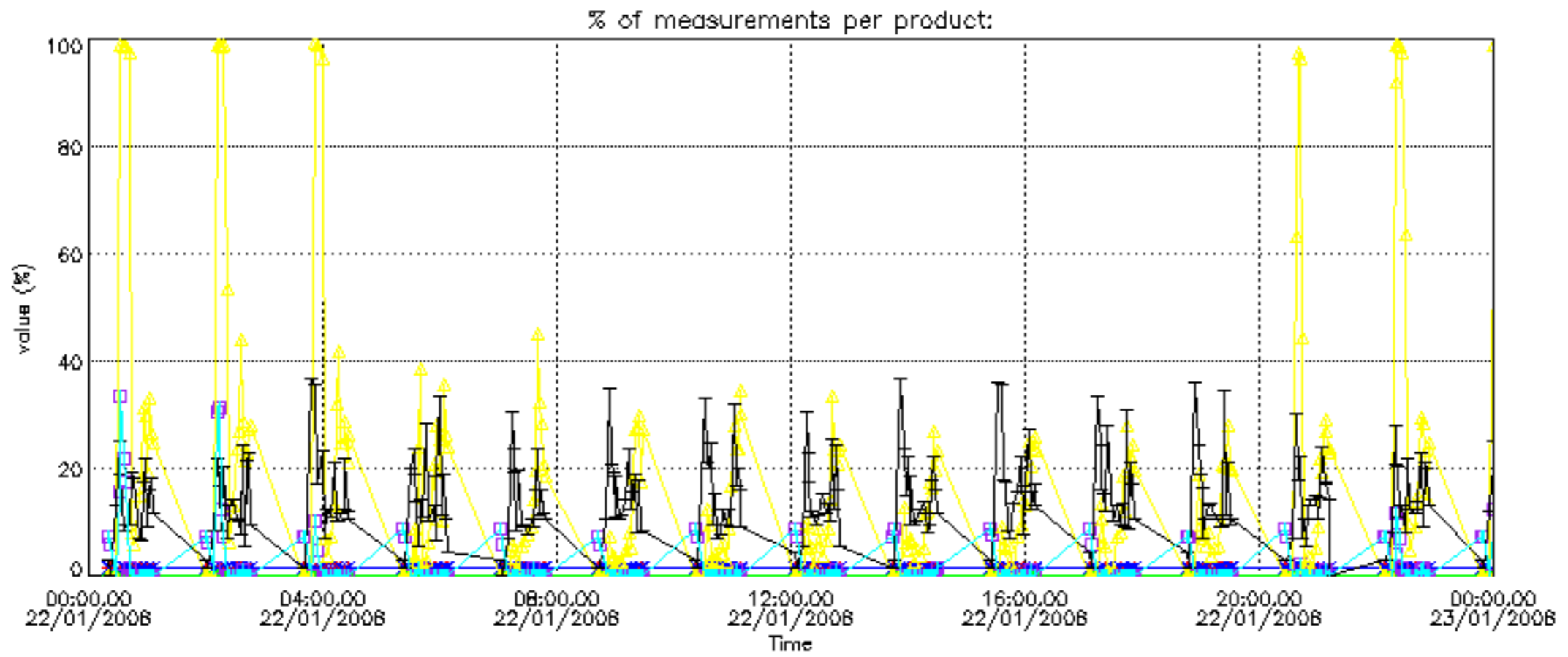


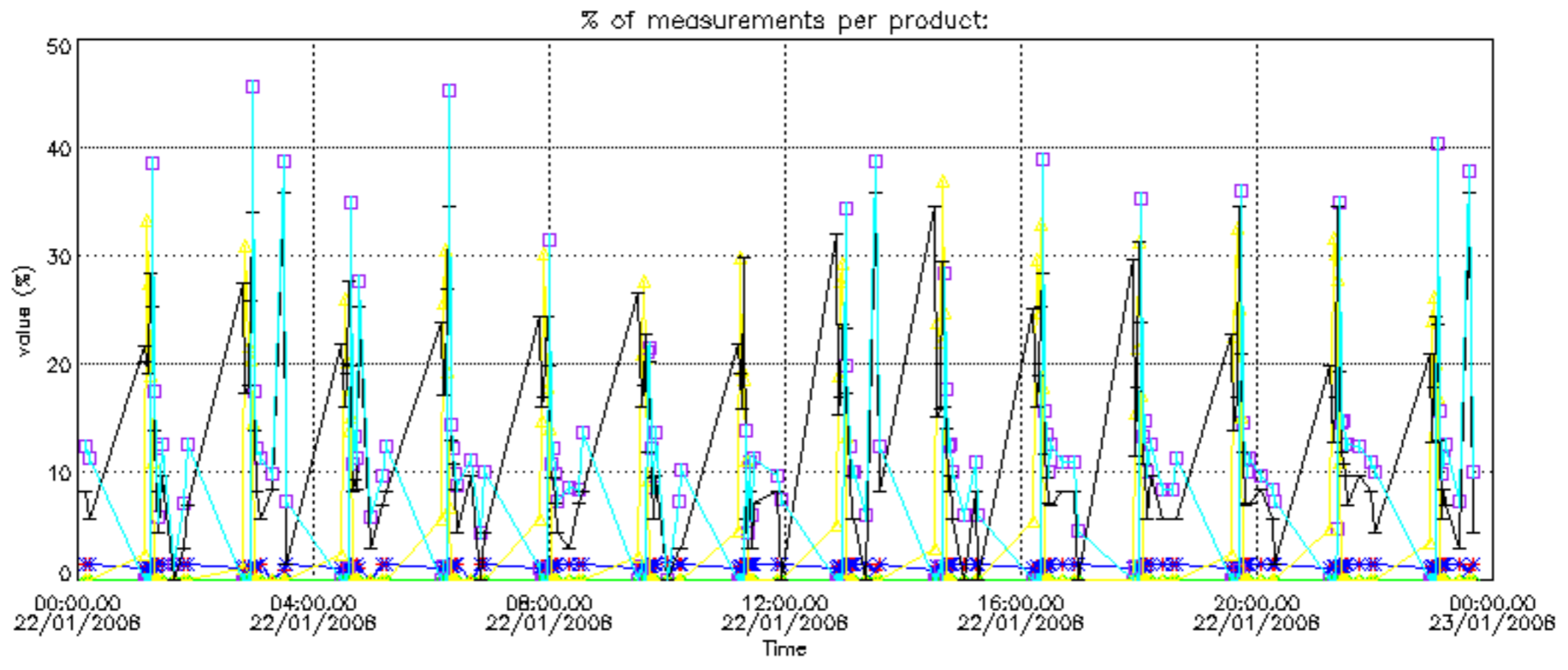
Percentage of flagged data per NO2 profile



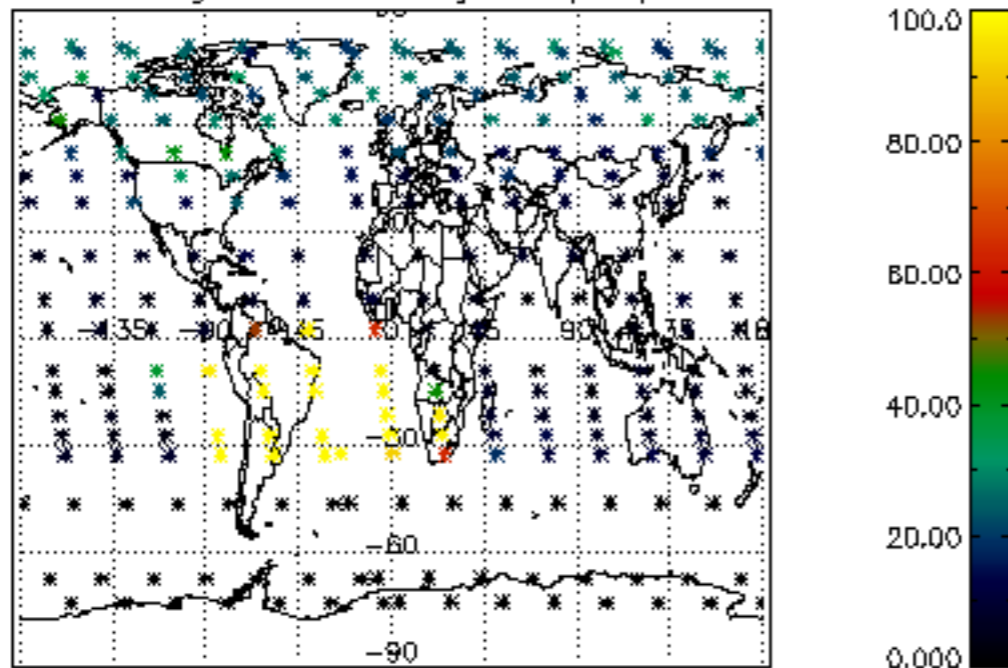
Percentage of flagged data per NO3 profile



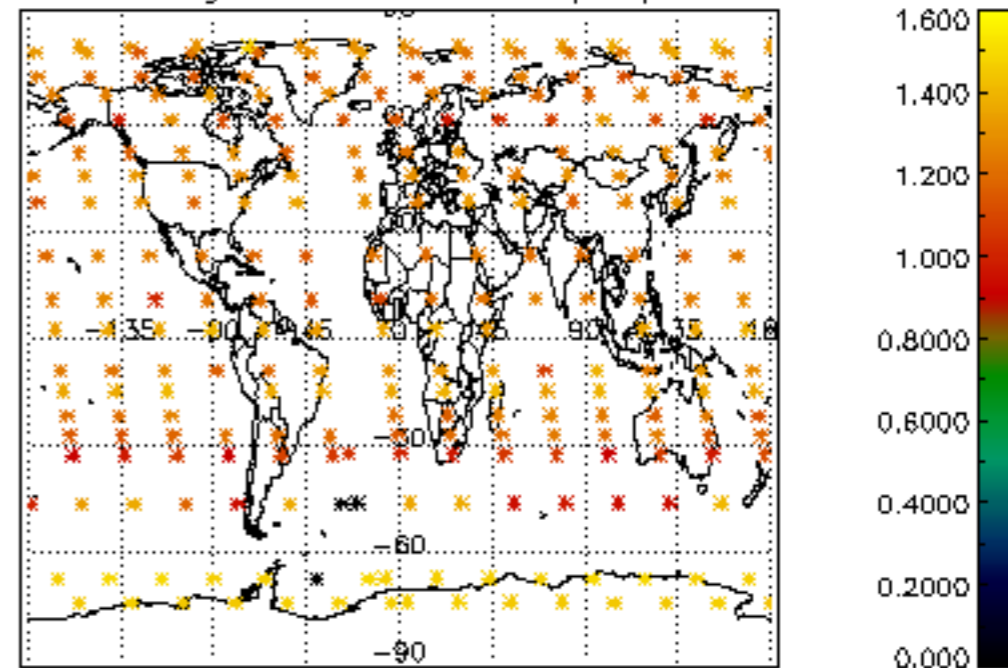




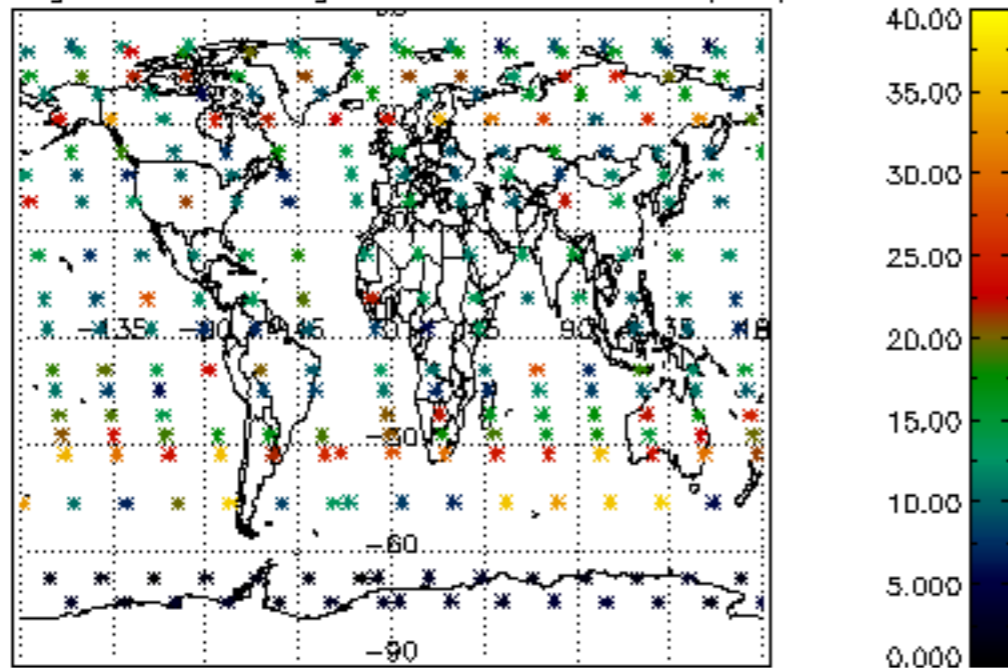
Percentage of cosmic ray hits per profile



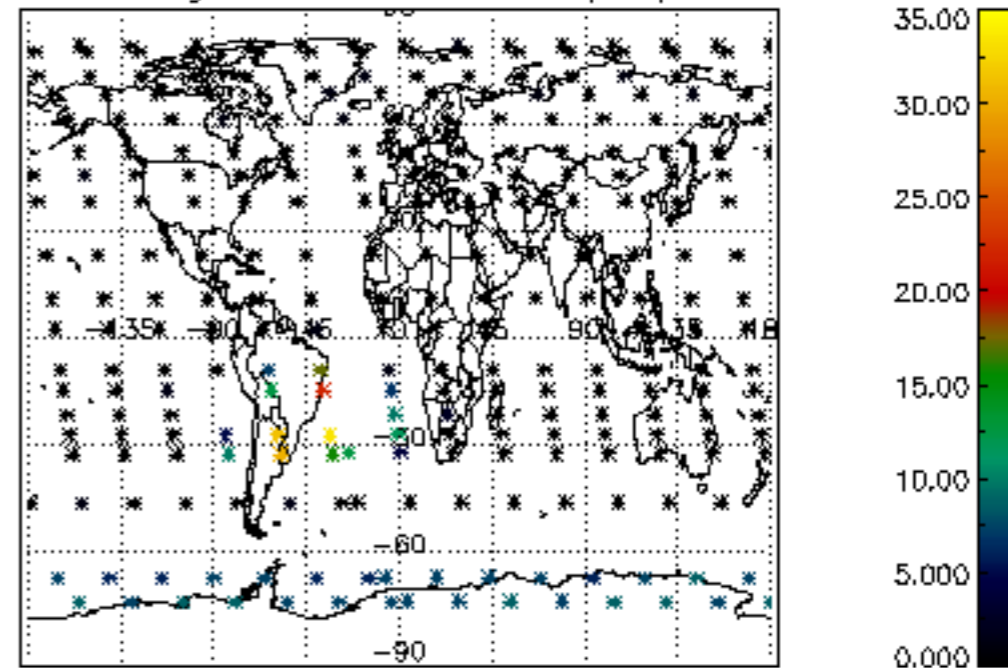
Percentage of datation errors per profile



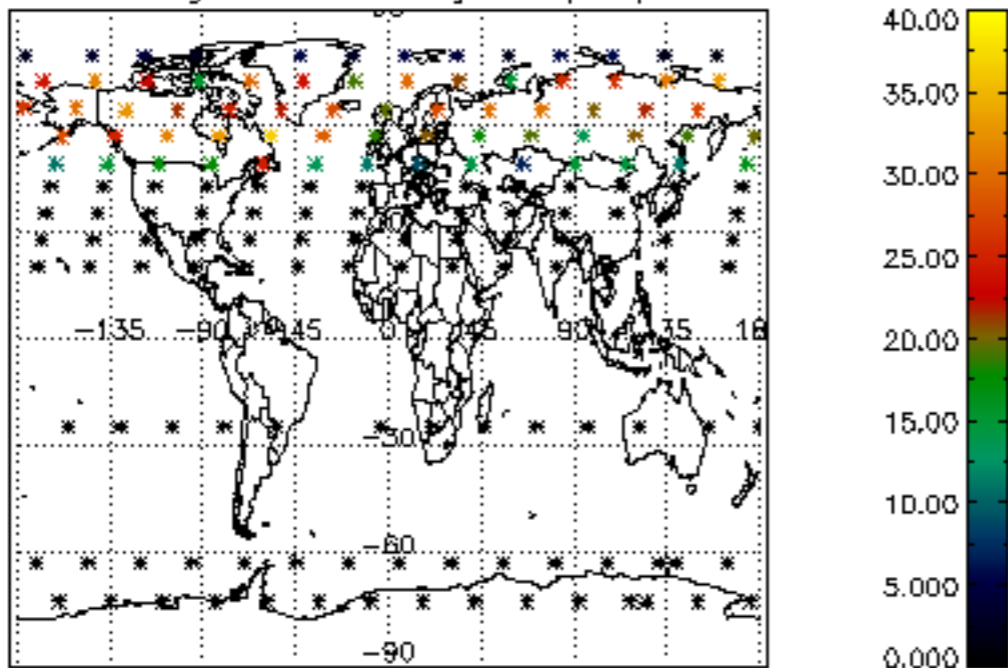
Percentage of star falling outside central band per profile



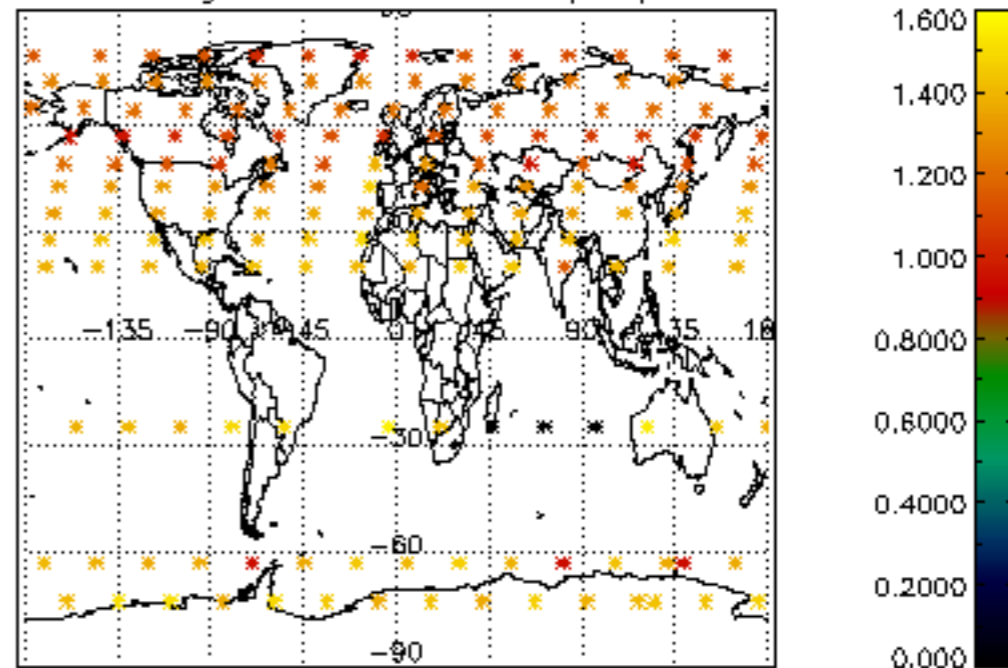
Percentage of saturation errors per profile



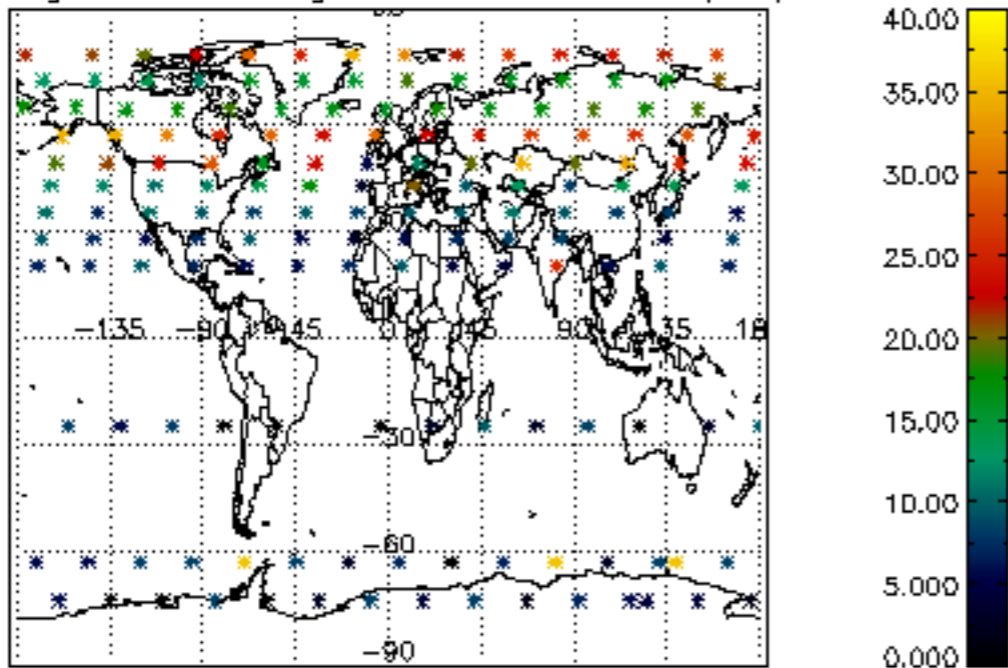
Percentage of cosmic ray hits per profile



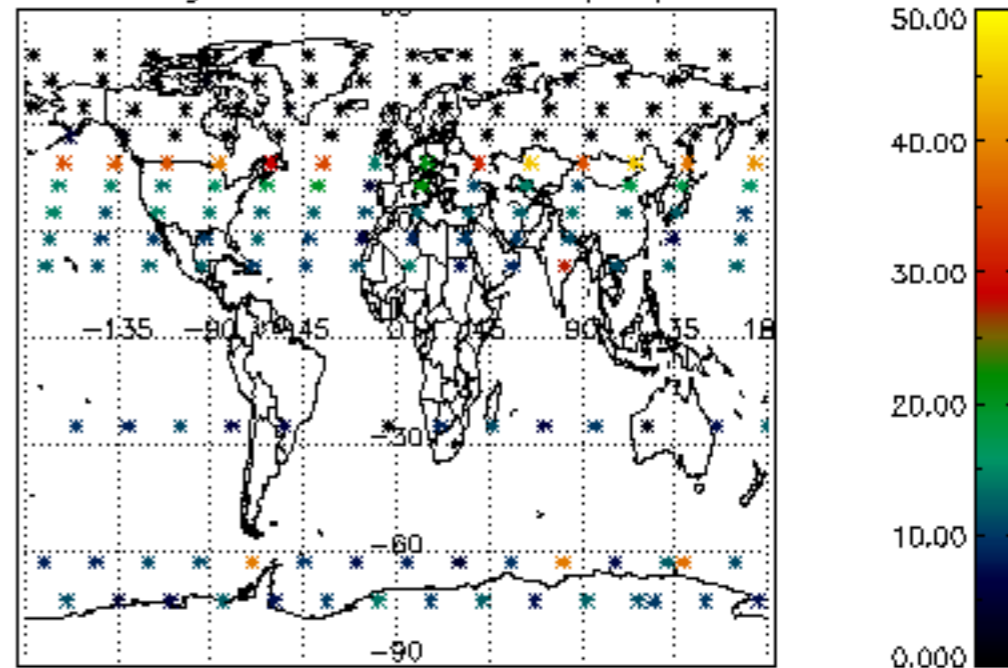
Percentage of datation errors per profile

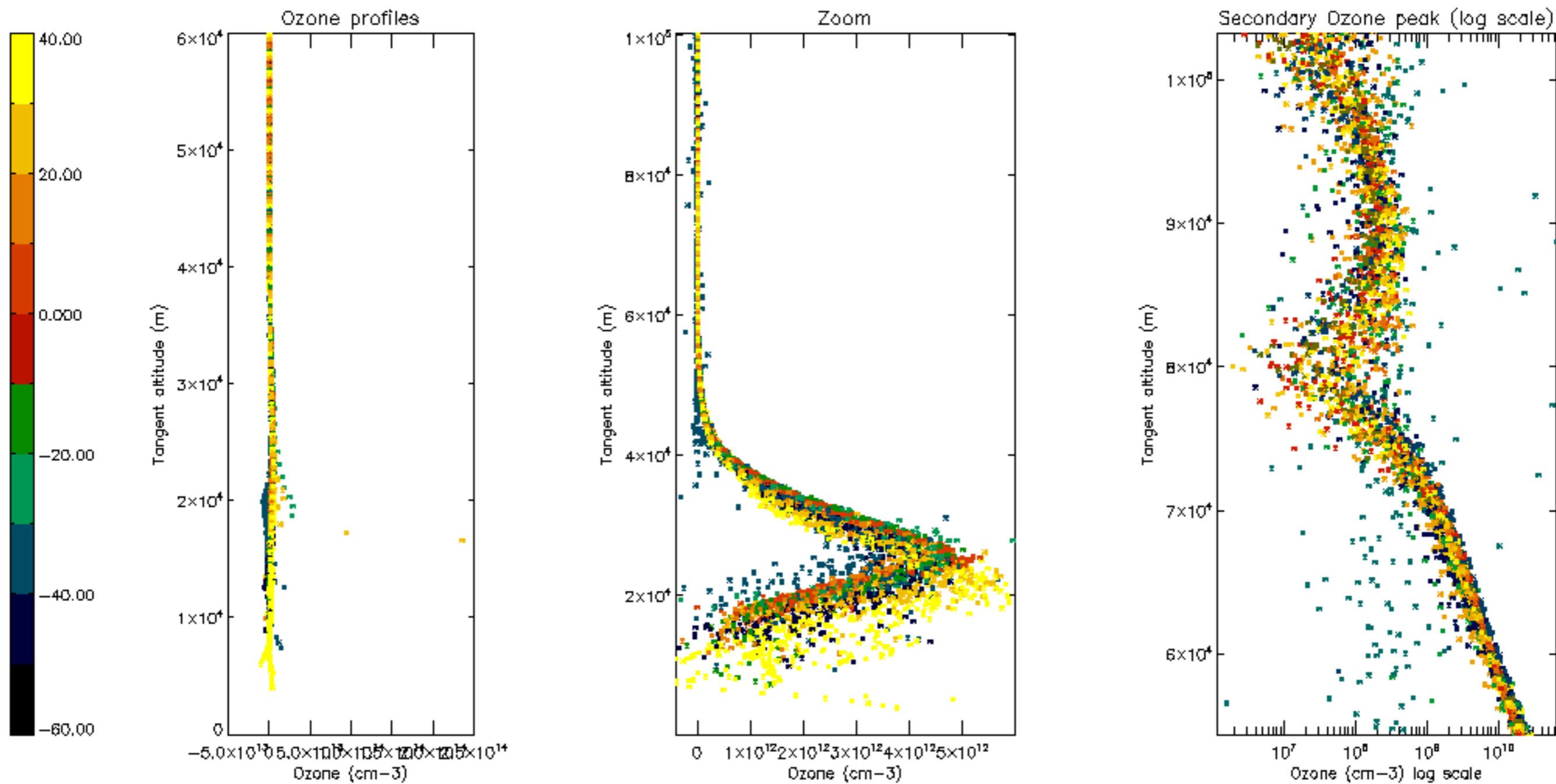


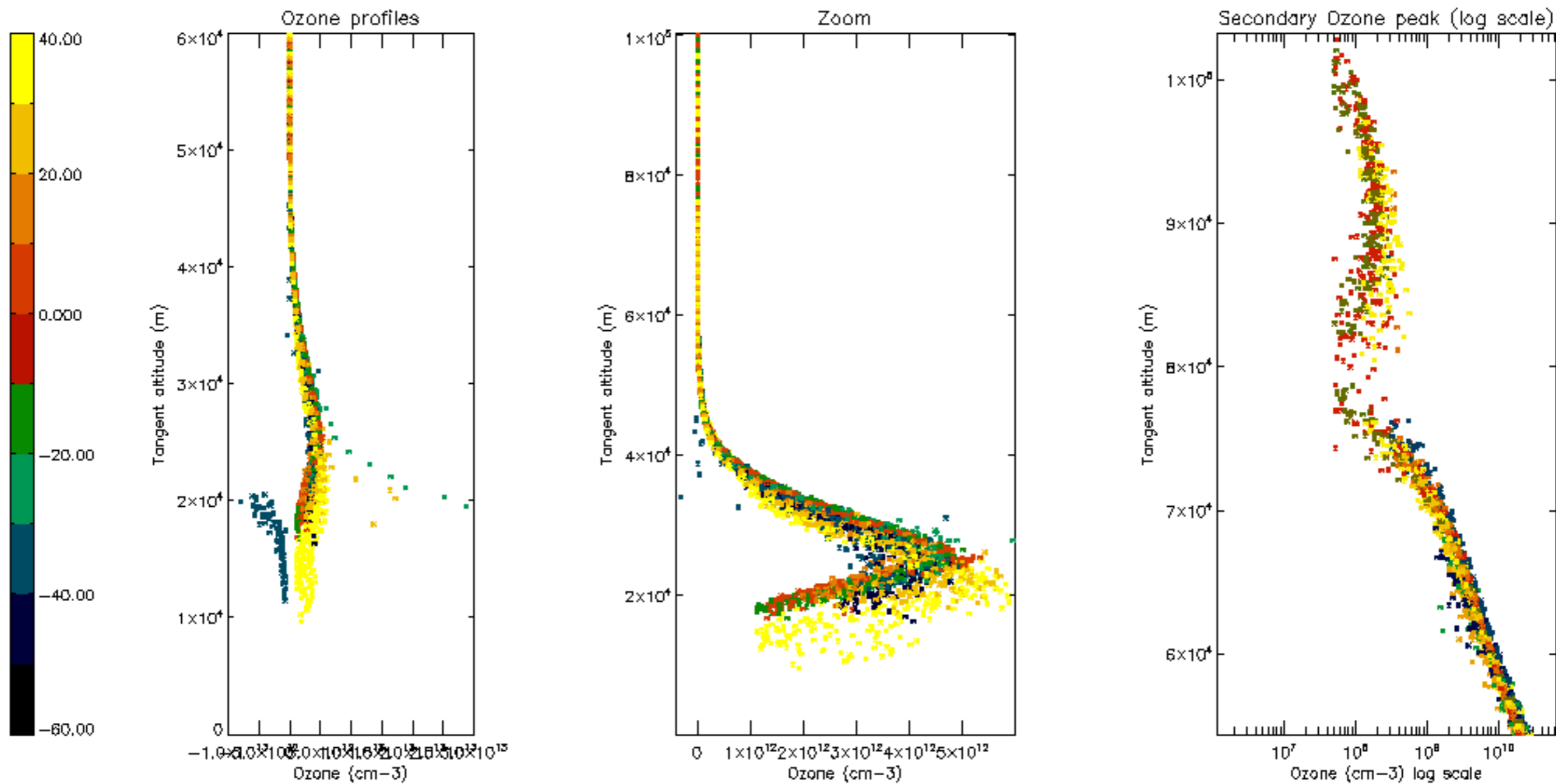
Percentage of star falling outside central band per profile

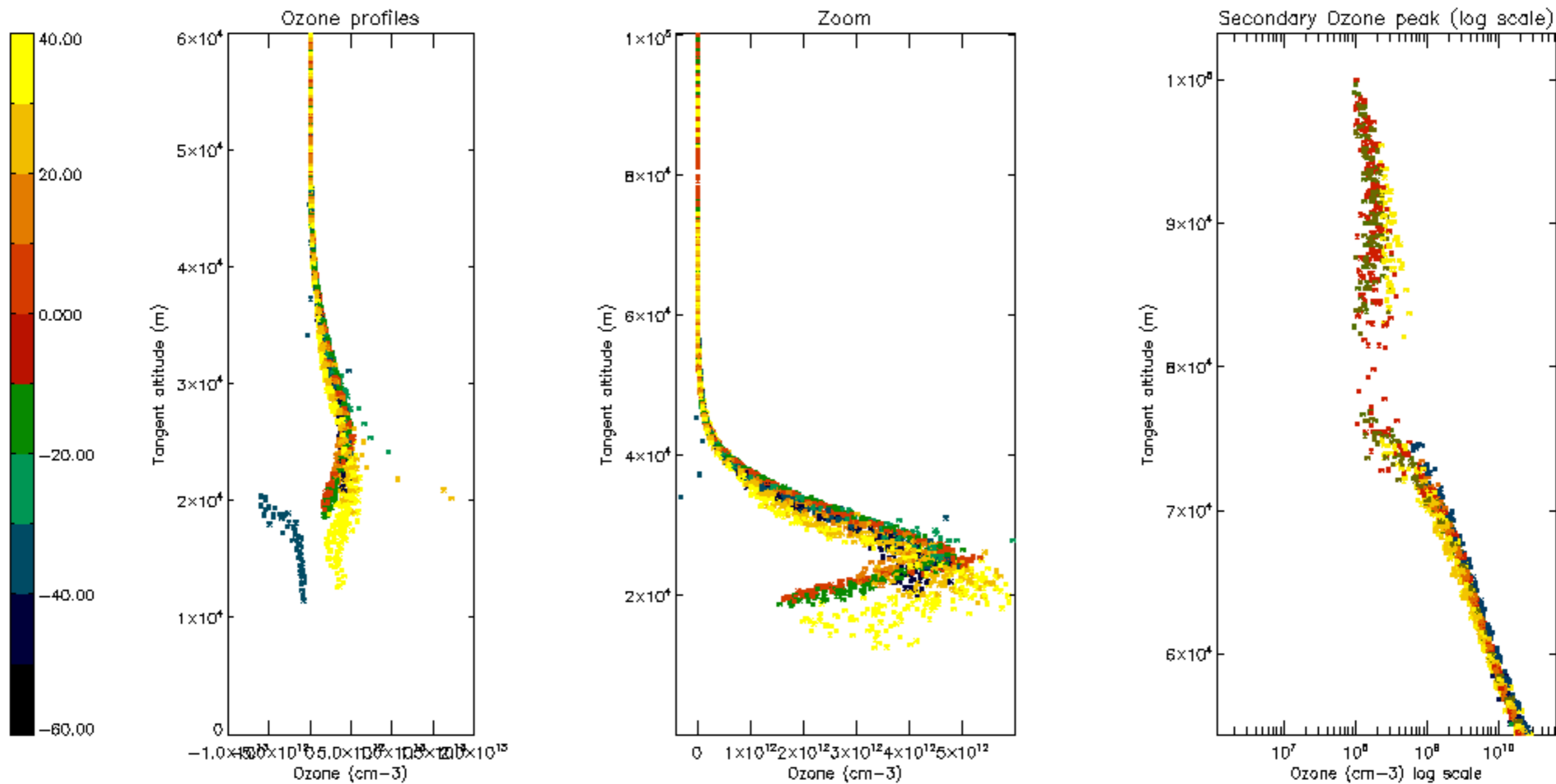


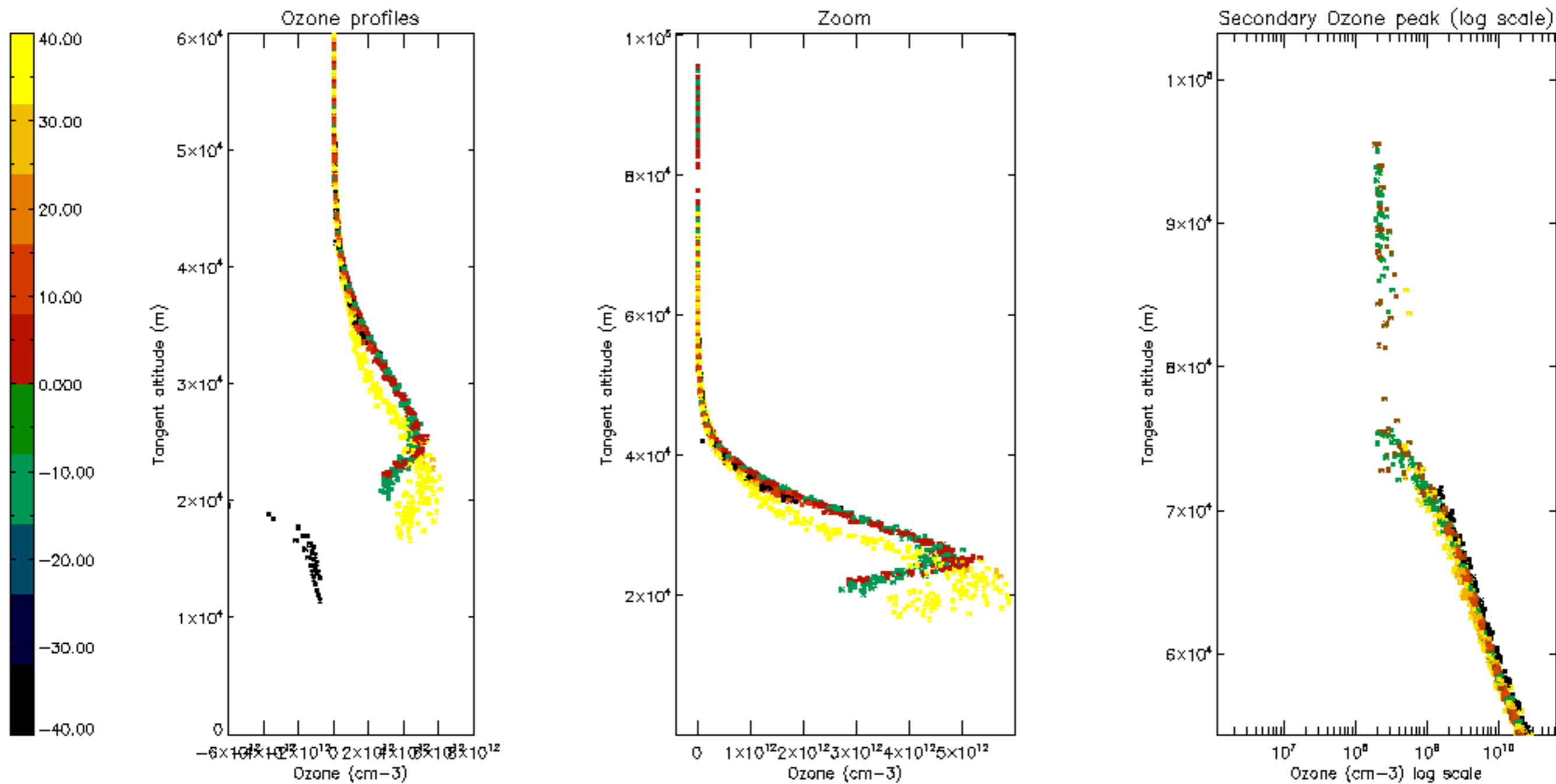
Percentage of saturation errors per profile

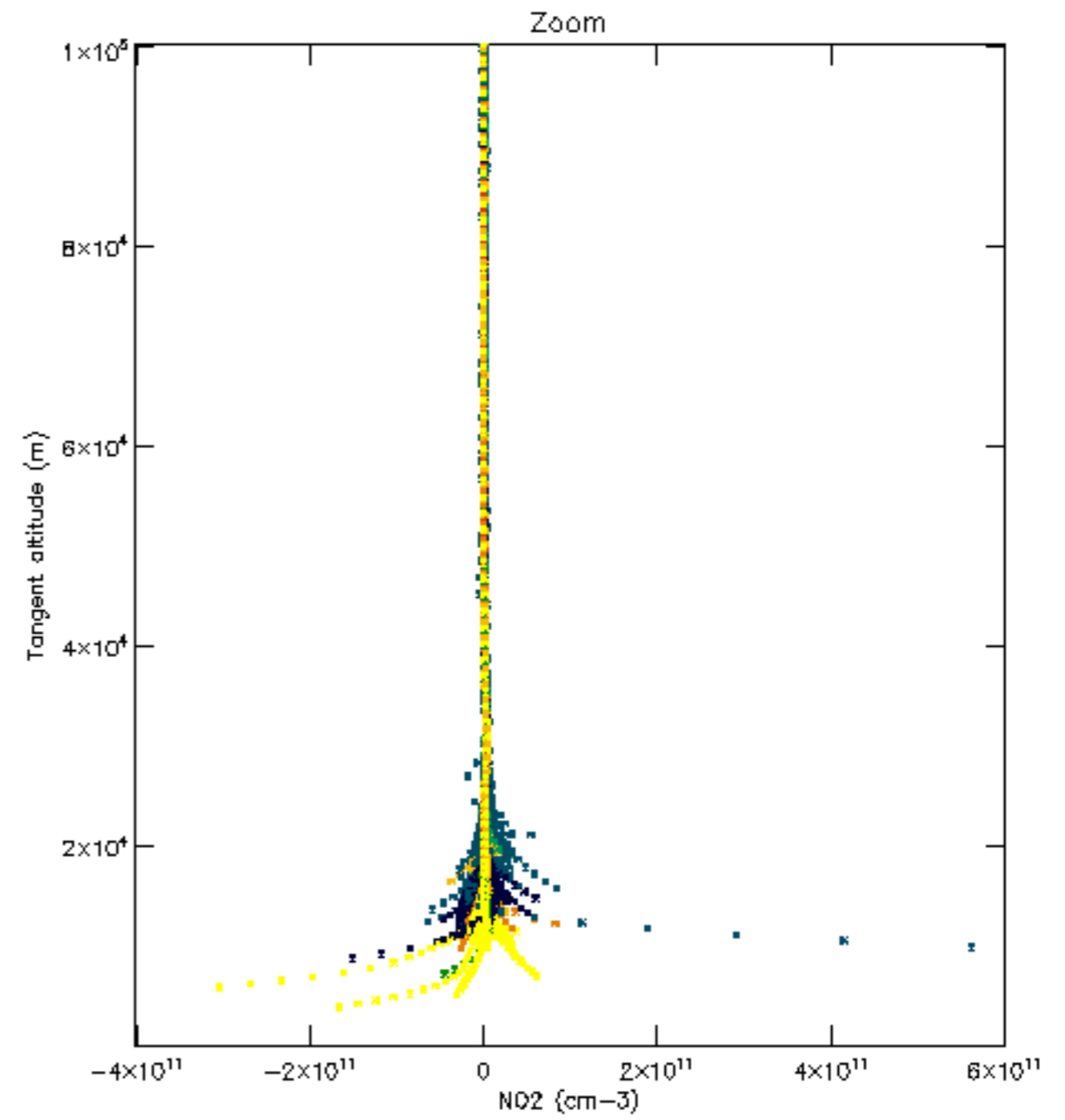
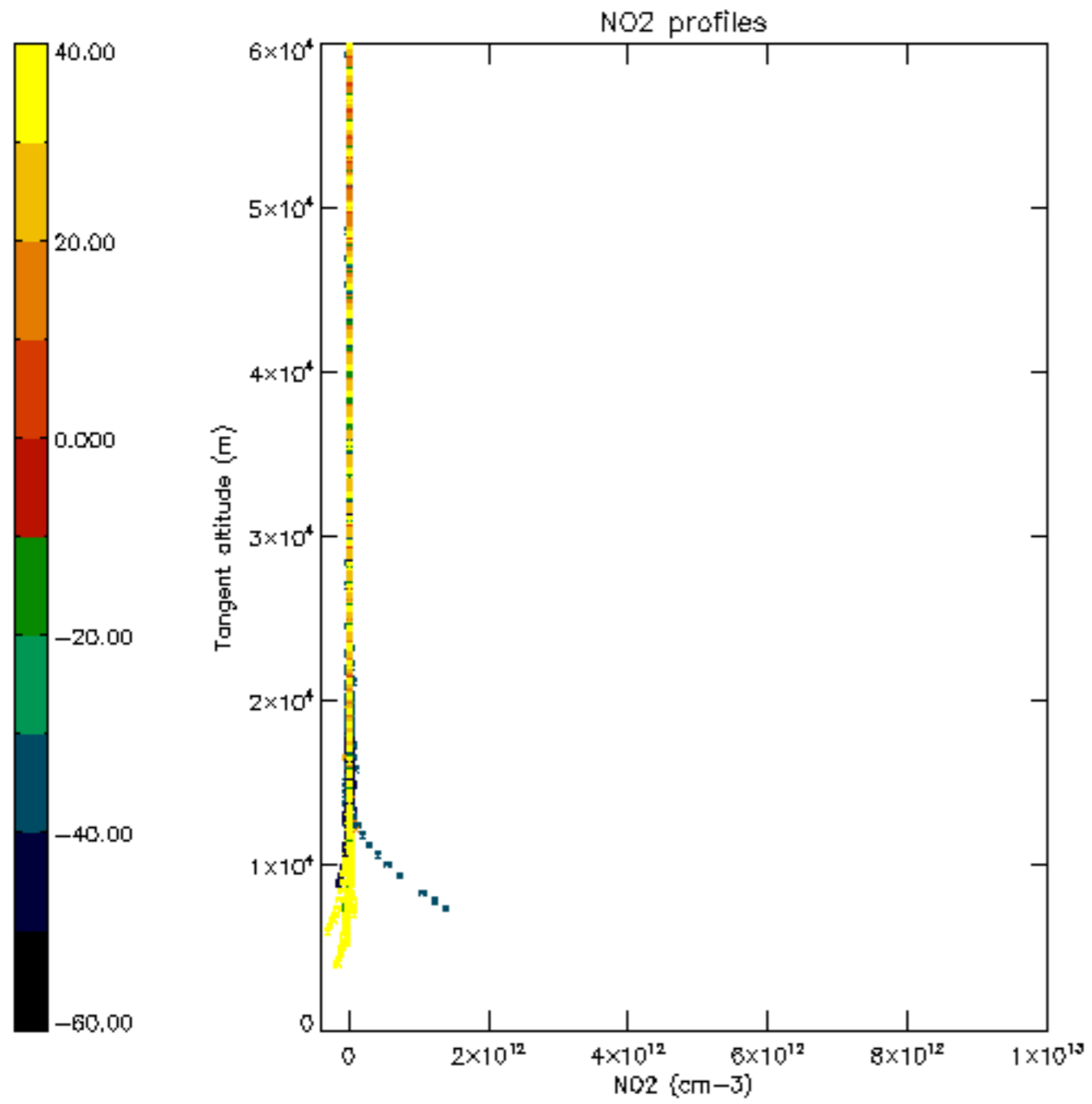


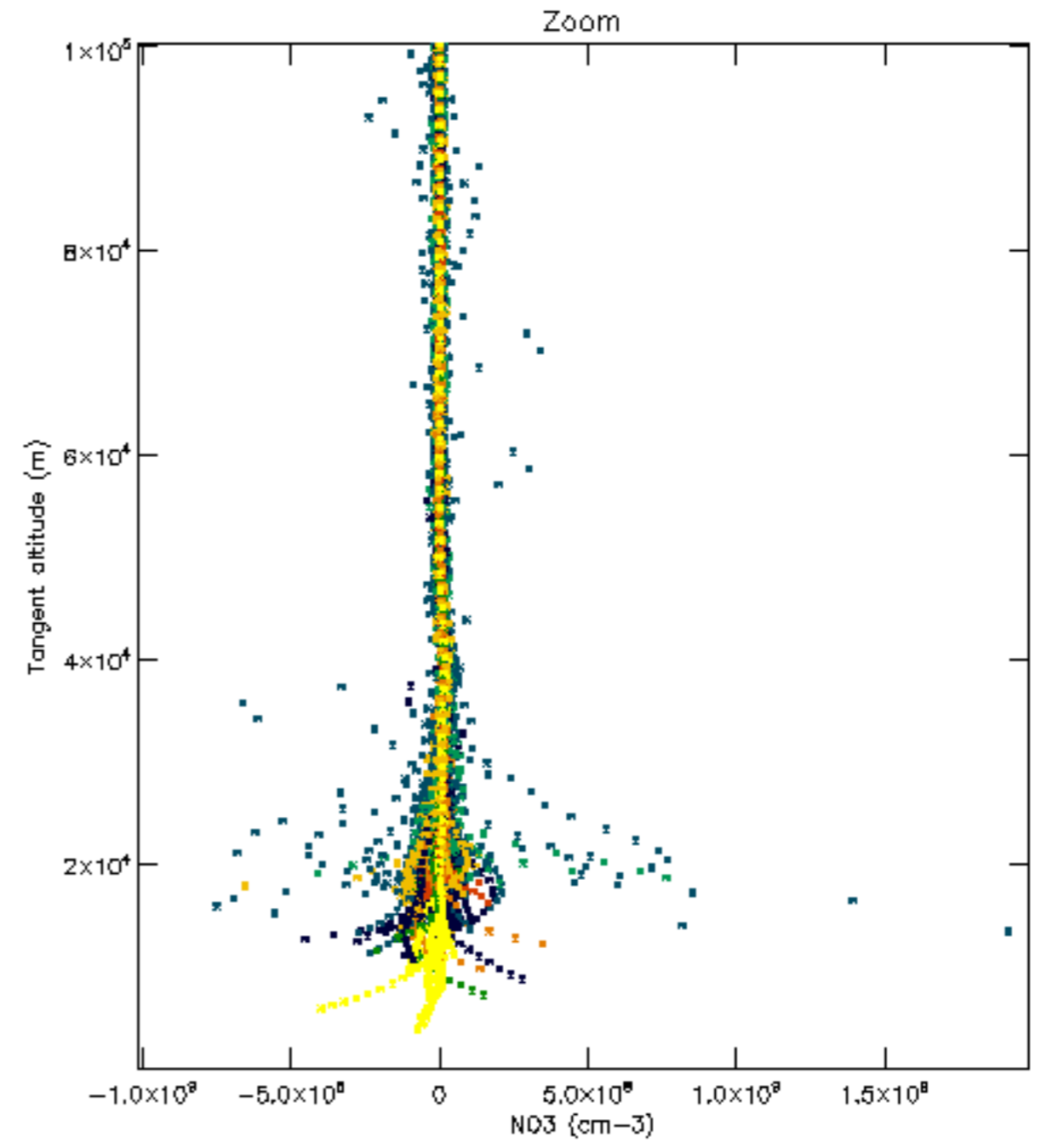
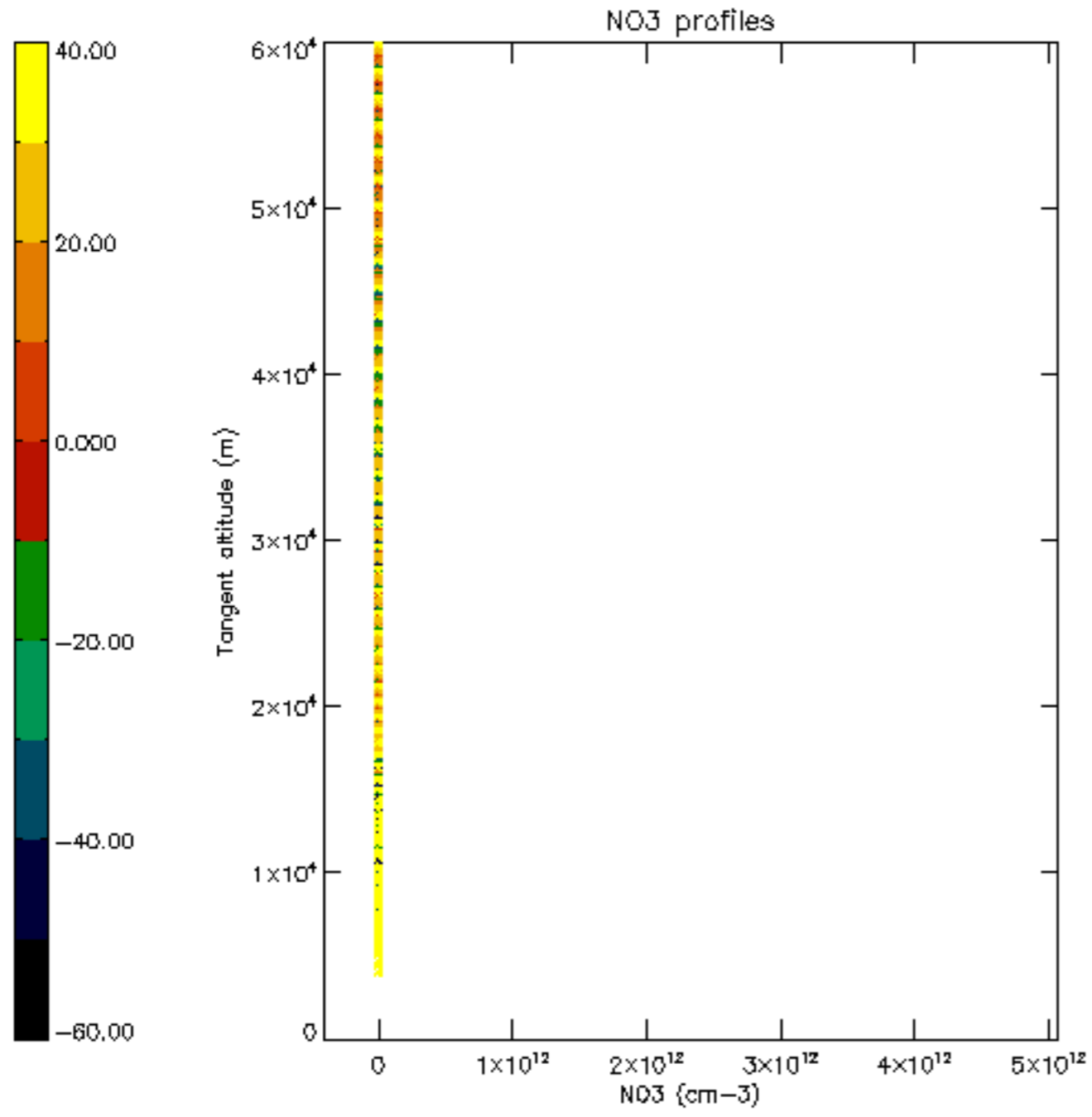


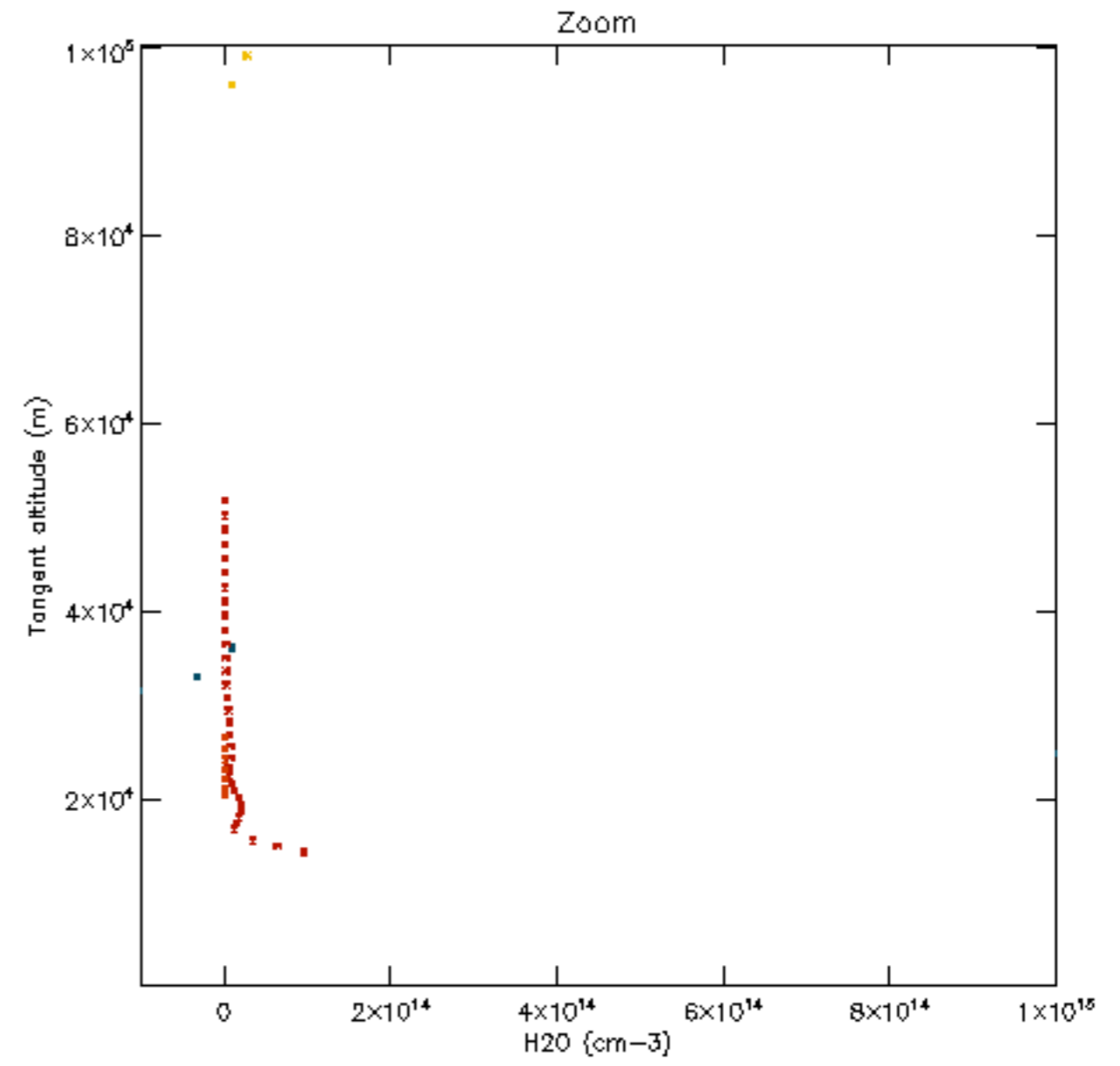
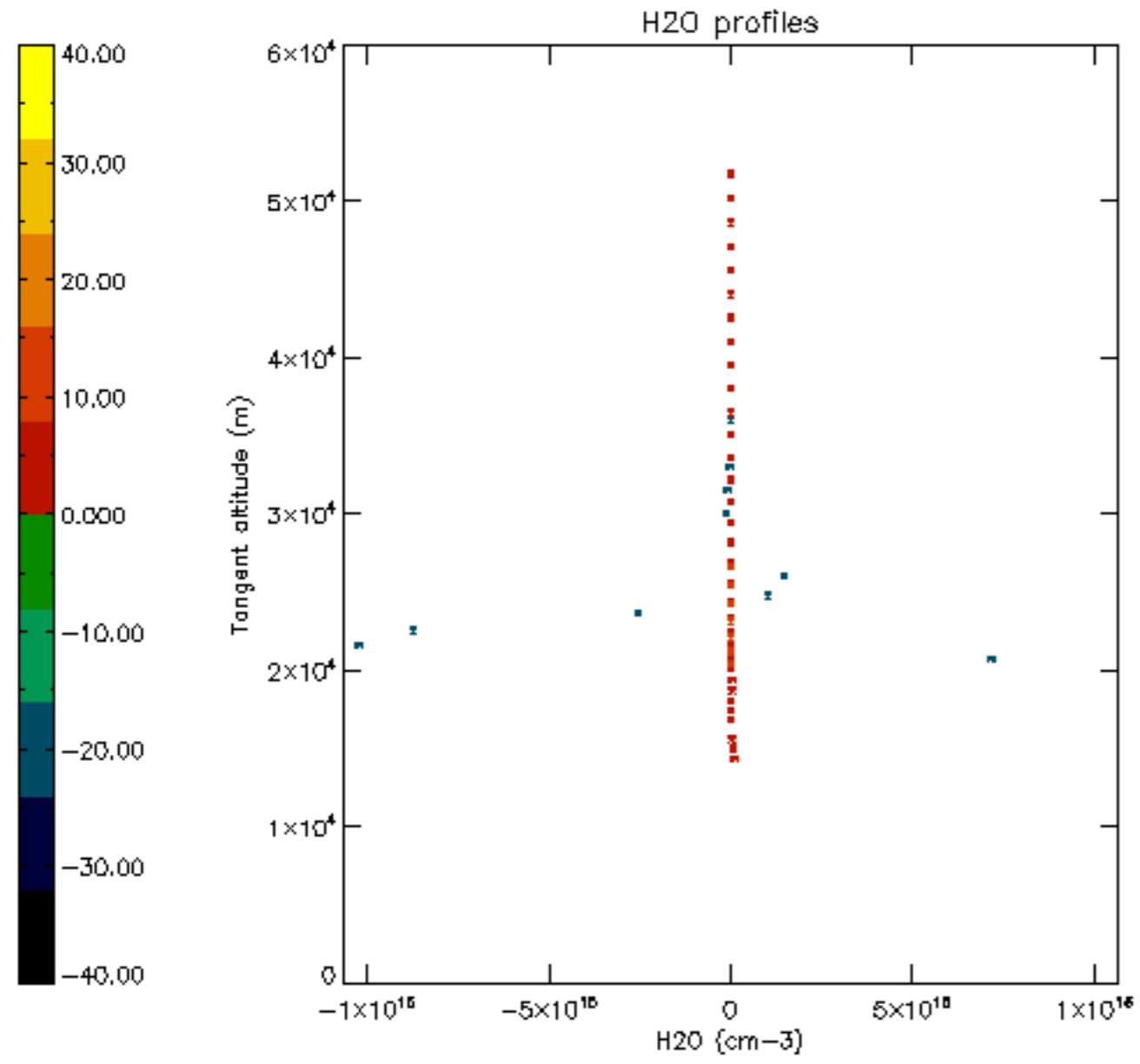


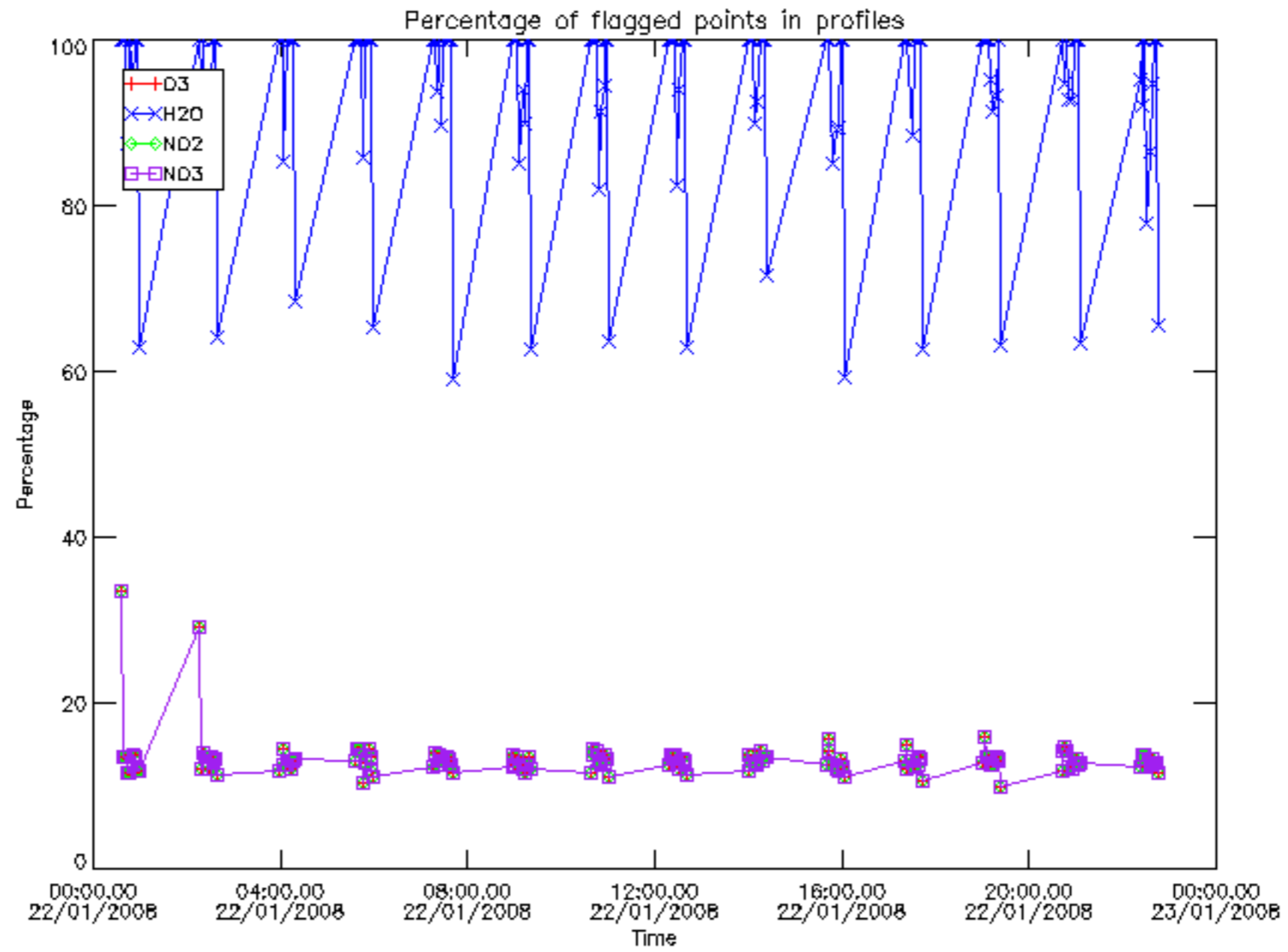




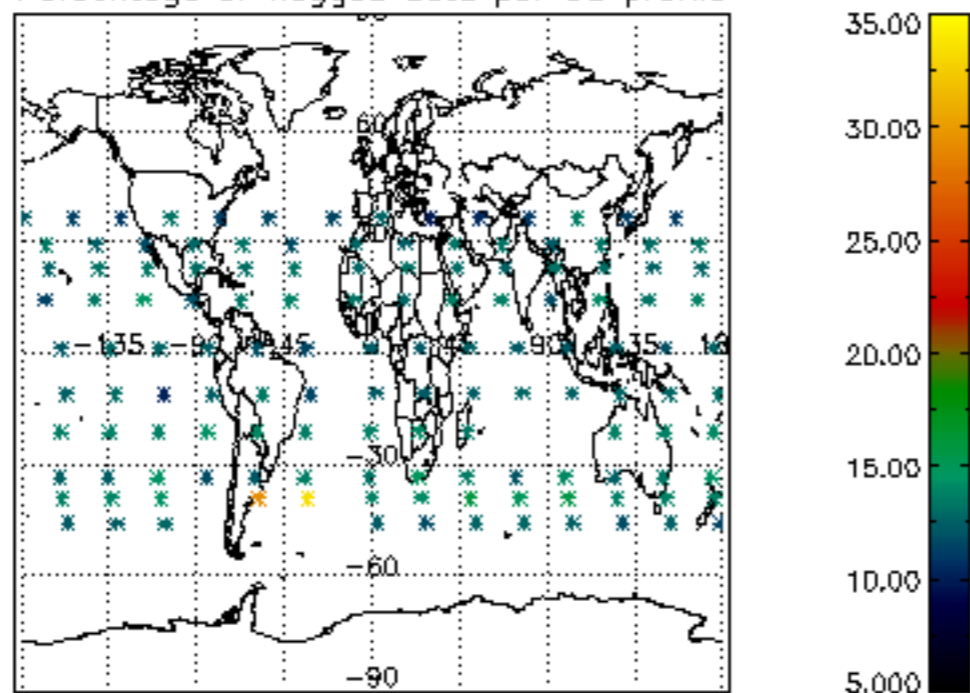




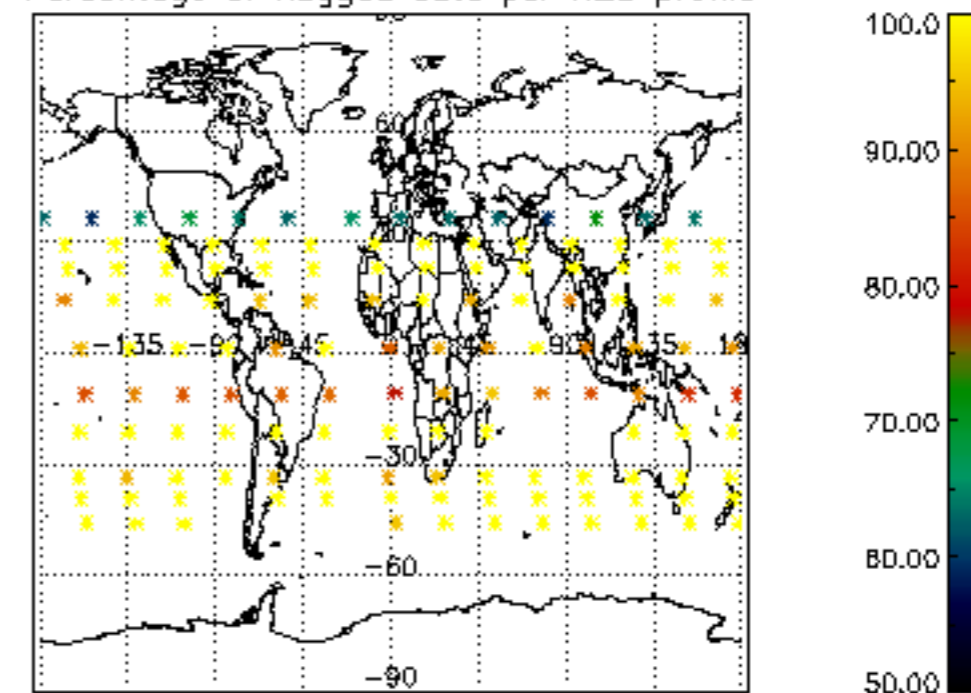




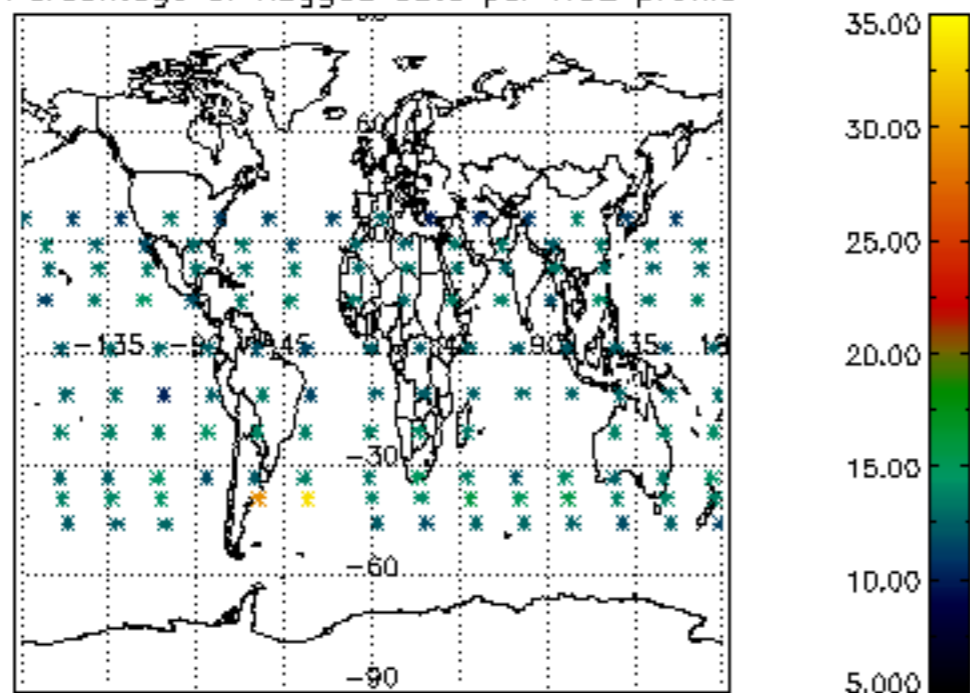
Percentage of flagged data per D3 profile



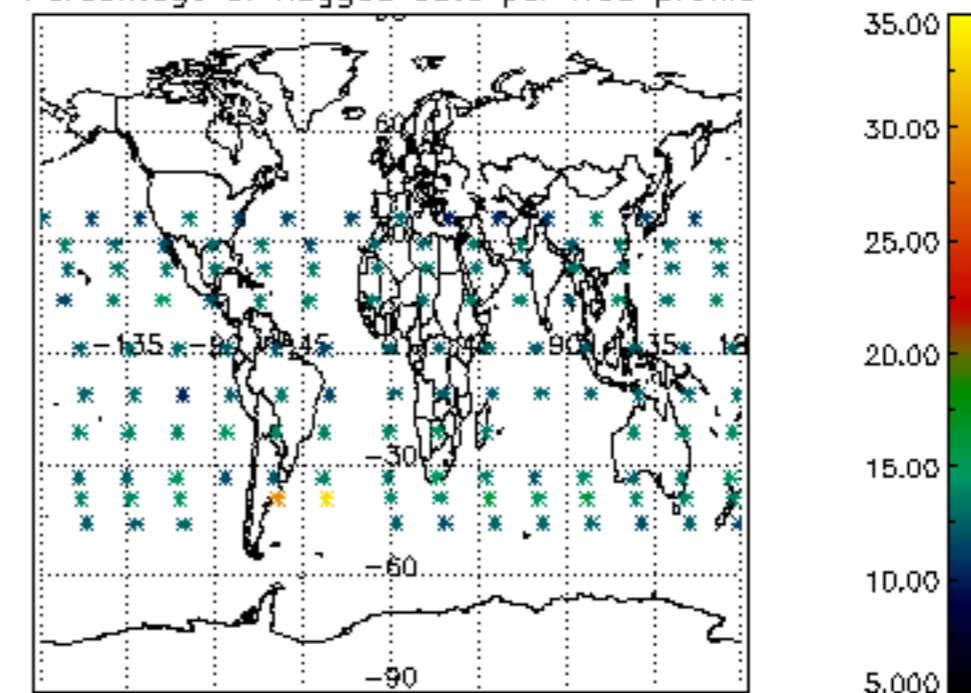
Percentage of flagged data per H2O profile

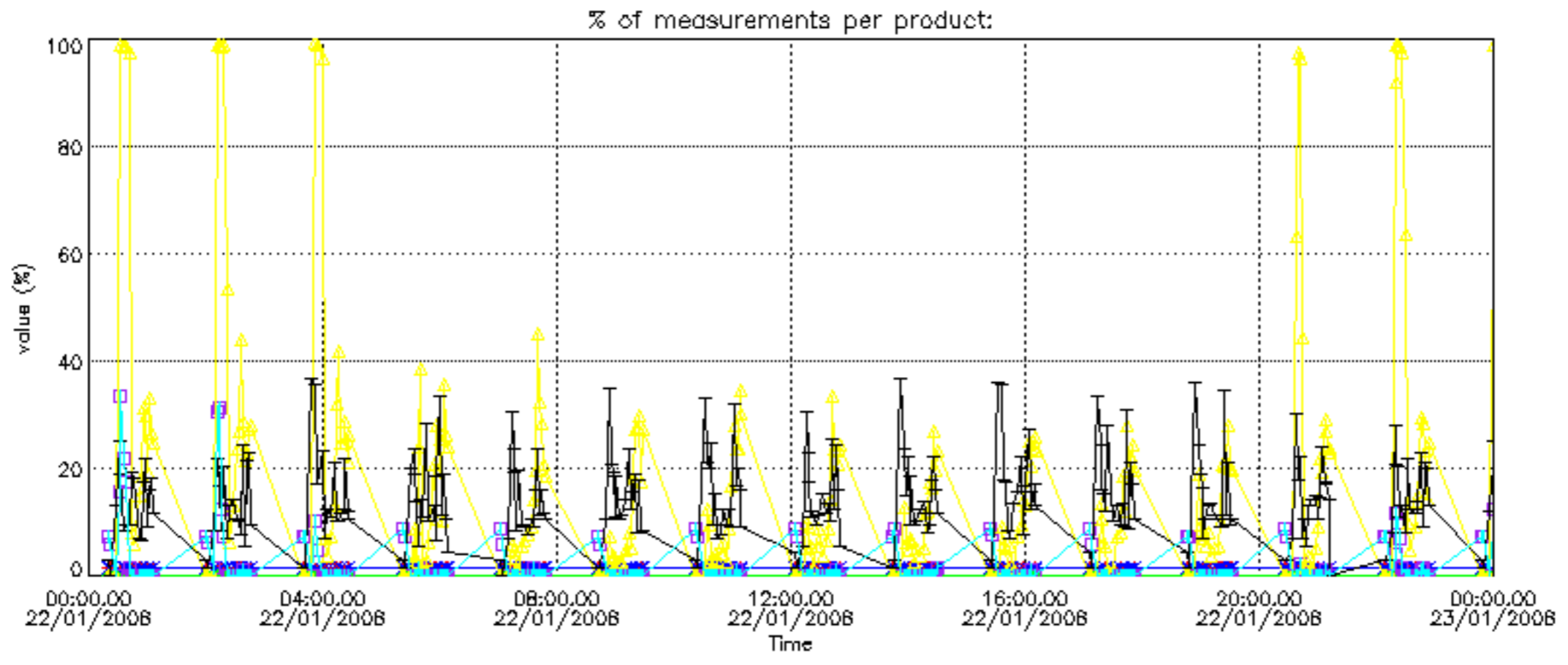


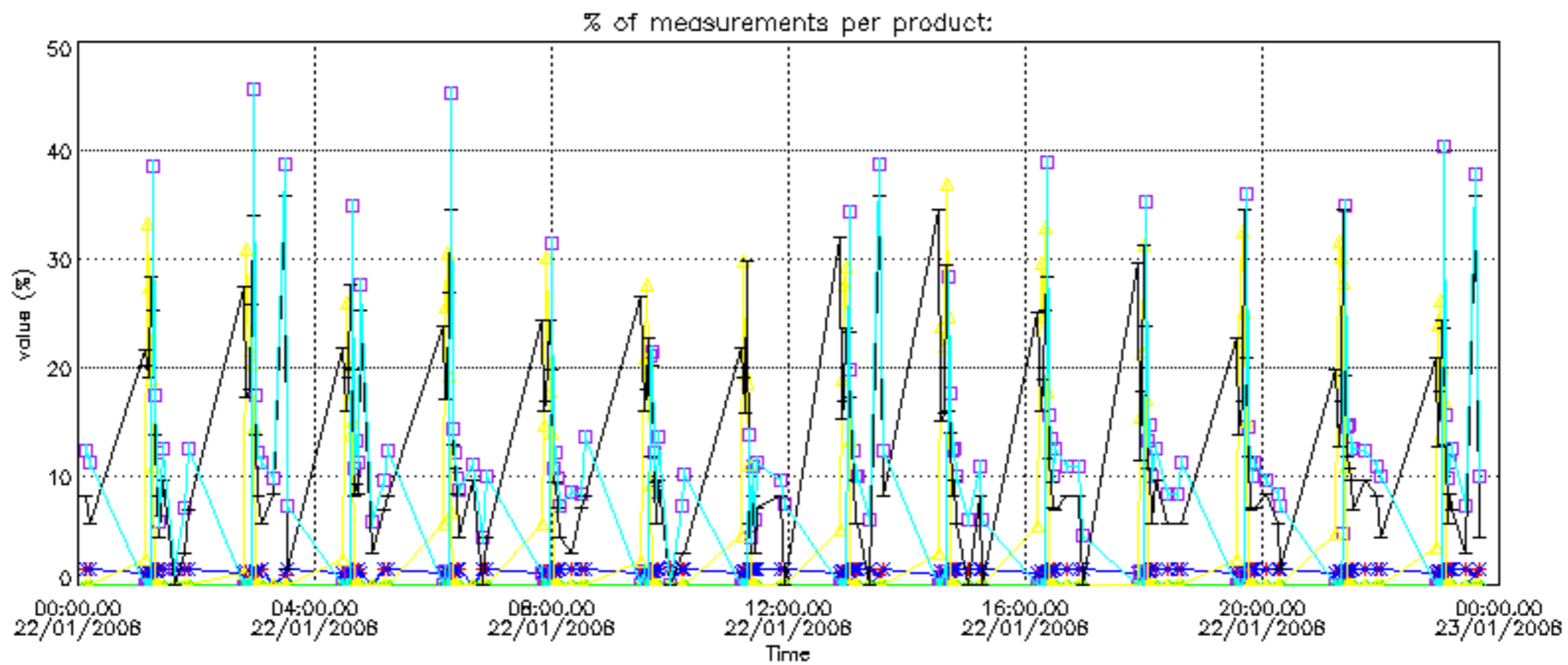
Percentage of flagged data per NO2 profile



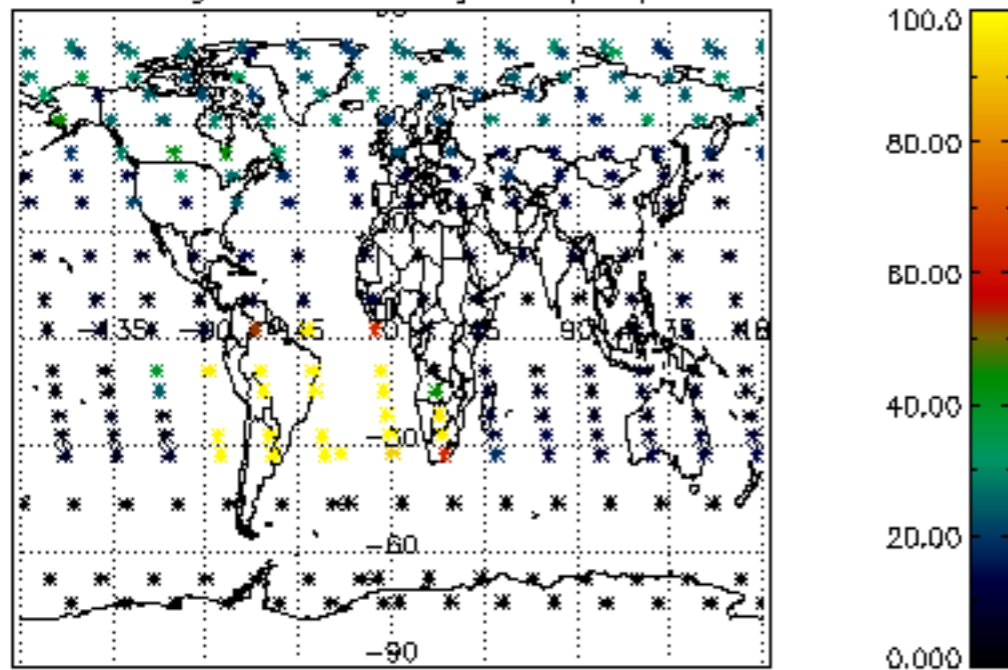
Percentage of flagged data per NO3 profile



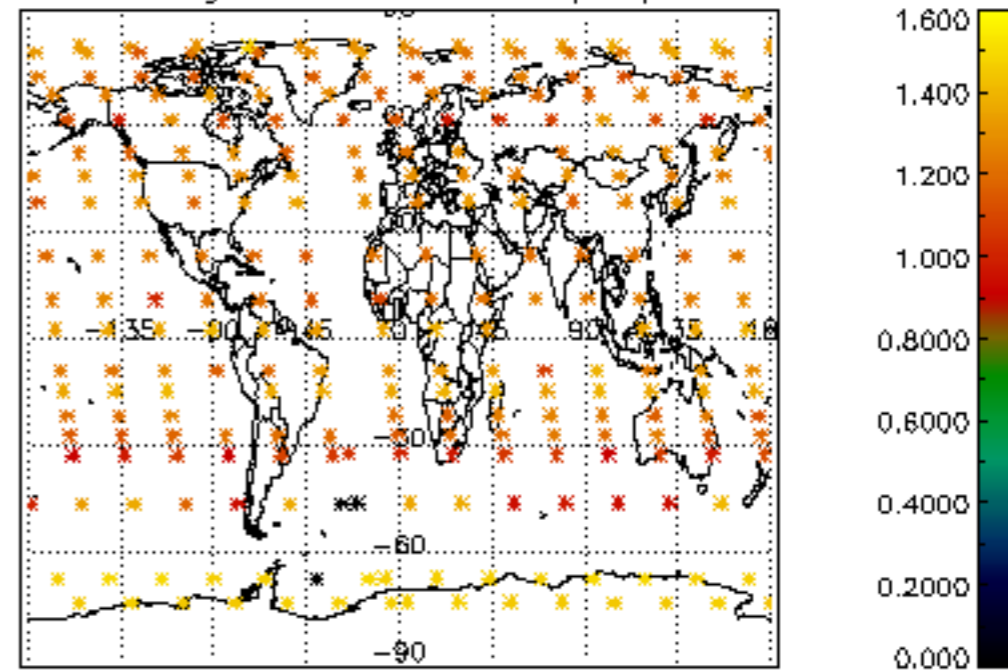




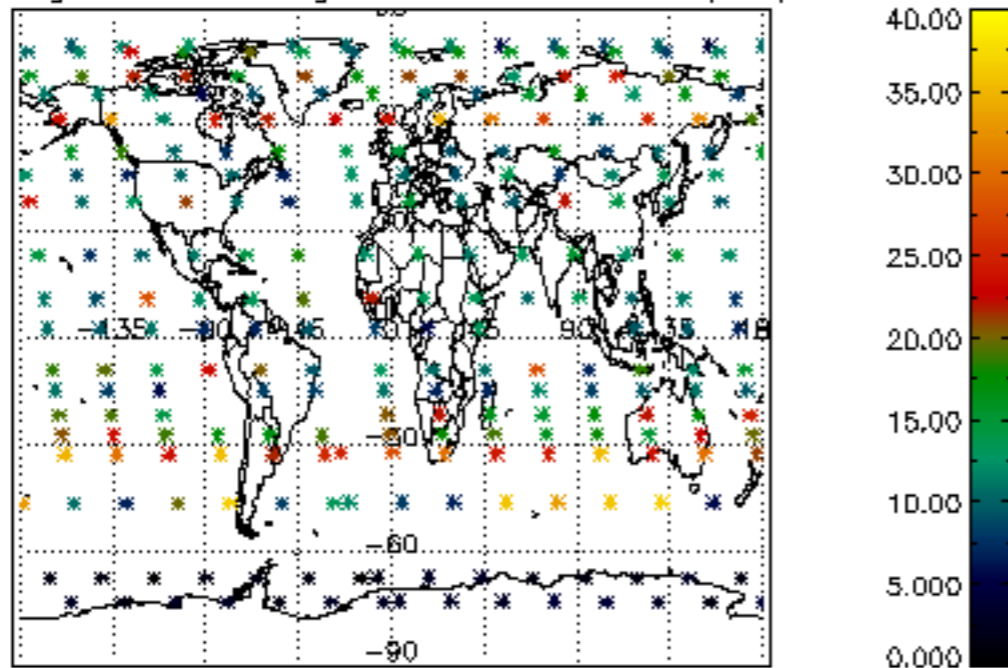
Percentage of cosmic ray hits per profile



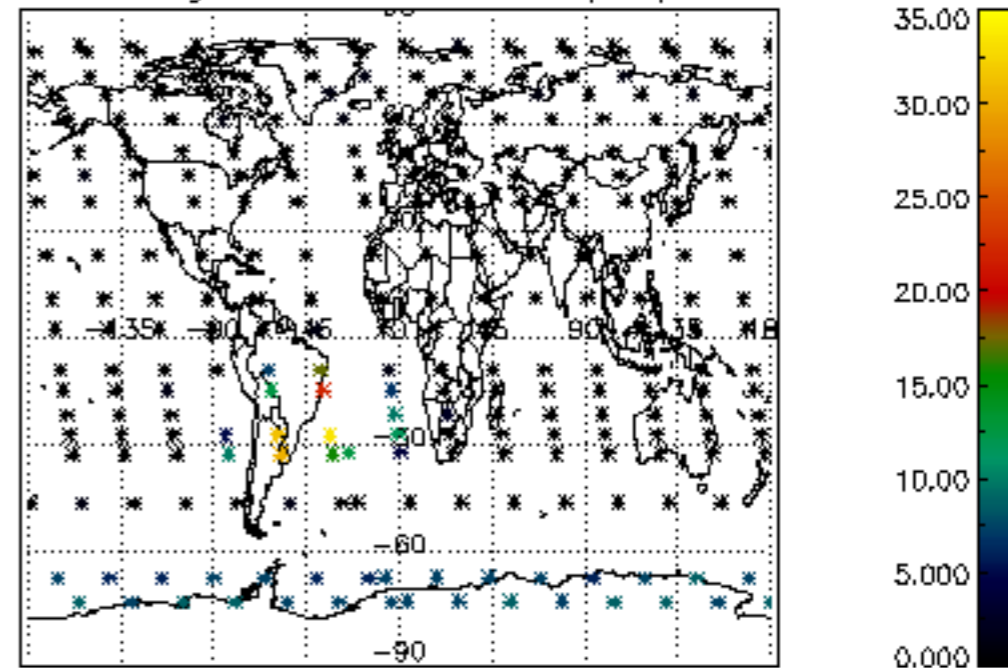
Percentage of datation errors per profile



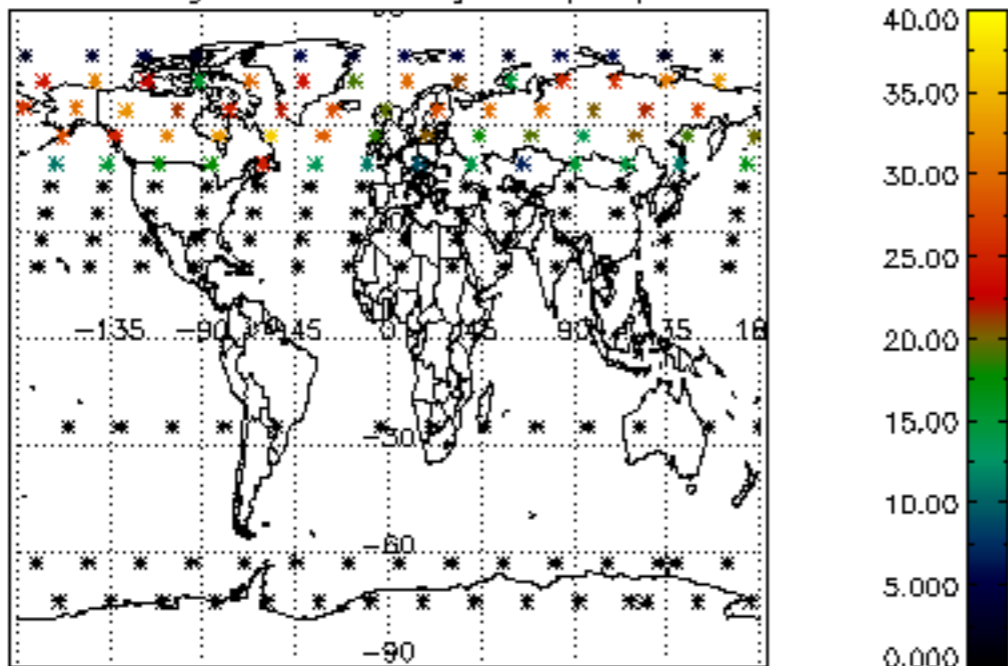
Percentage of star falling outside central band per profile



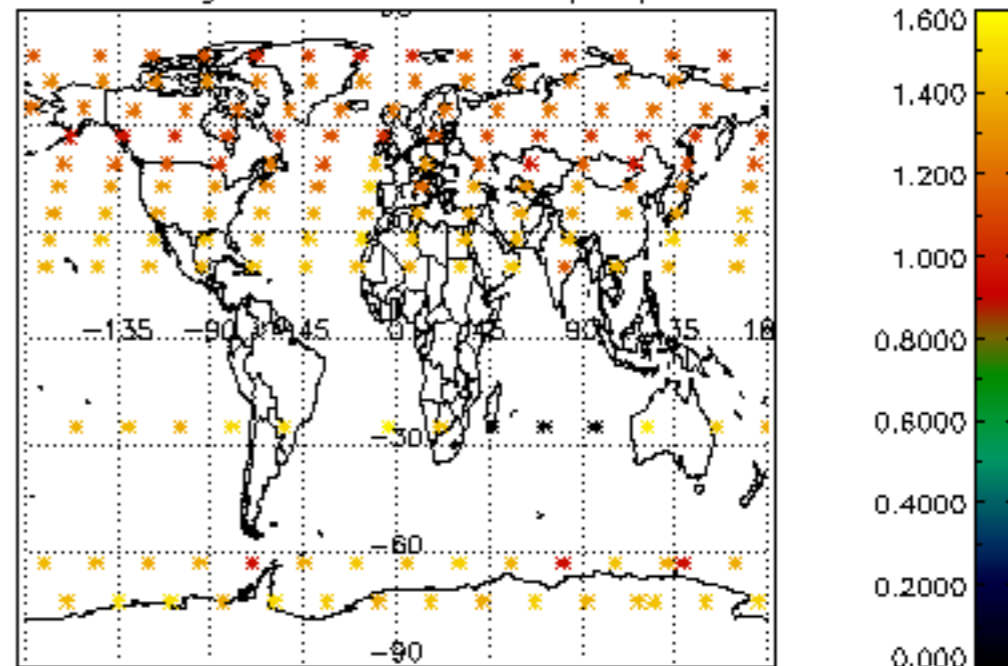
Percentage of saturation errors per profile



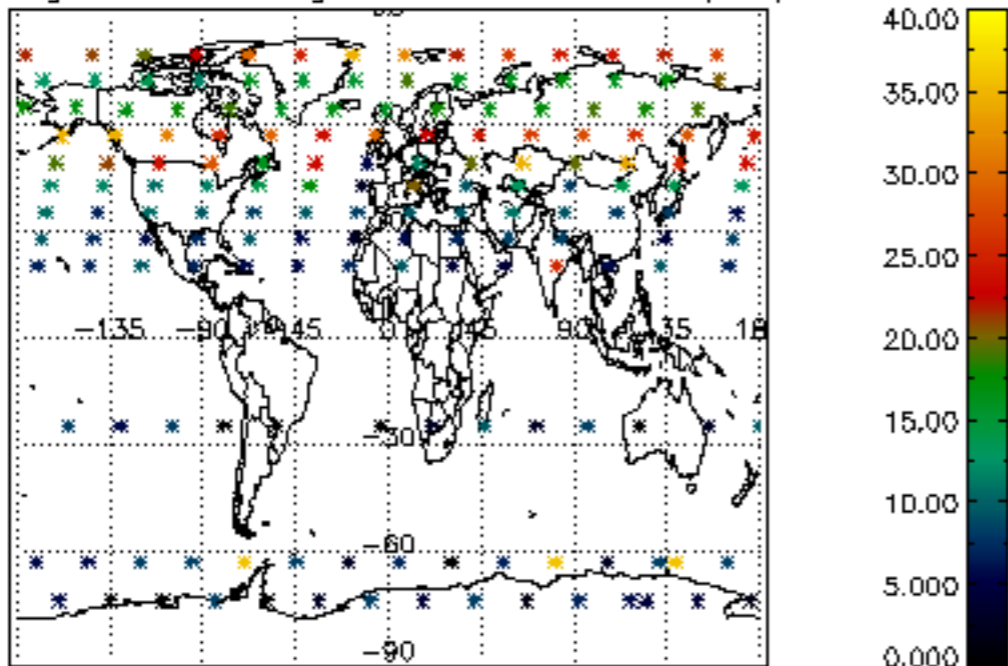
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

