

GOMOS Level 2 Daily Report

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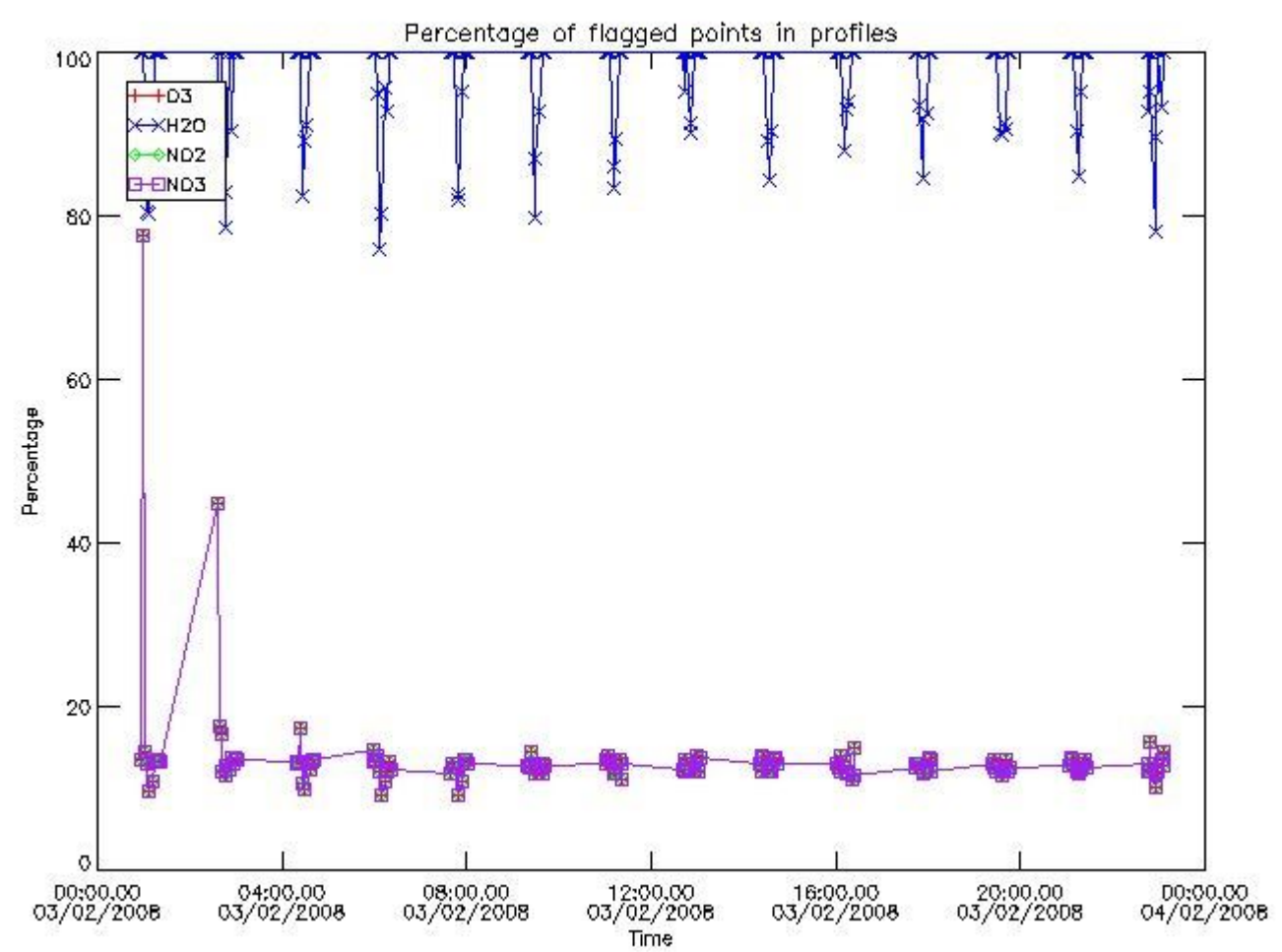
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397	GOM_NL__2PRFIN20080203_223255_000000552065_00387_31002_3005.N1	03-FEB-2008 22:32:55	Bright	55.000	126	60Bet Oph	2.7700	4250.0	110	31002	No
398	GOM_NL__2PRFIN20080203_223930_000000462065_00387_31002_3006.N1	03-FEB-2008 22:39:30	Twilight	45.500	86	35Eta Oph	2.4300	10200.	91	31002	No
399	GOM_NL__2PRFIN20080203_224140_000000392065_00387_31002_3007.N1	03-FEB-2008 22:41:40	Twilight	39.000	116	19Del Sgr	2.7000	4100.0	78	31002	No
400	GOM_NL__2PRFIN20080203_224252_000000432065_00387_31002_3008.N1	03-FEB-2008 22:42:52	Twilight	42.500	38	20Eps Sgr	1.8360	11000.	85	31002	No
401	GOM_NL__2PRFIN20080203_224427_000000402065_00387_31002_3009.N1	03-FEB-2008 22:44:27	Dark	39.500	25	35Lam Sco	1.6200	28000.	79	31002	No
402	GOM_NL__2PRFIN20080203_224554_000000422065_00387_31002_3010.N1	03-FEB-2008 22:45:54	Dark	42.000	40	The Sco	1.8590	7100.0	84	31002	No
403	GOM_NL__2PRFIN20080203_224746_000000362065_00387_31002_3011.N1	03-FEB-2008 22:47:46	Dark	36.000	147	Alp Ara	2.8770	26000.	72	31002	No
404	GOM_NL__2PRFIN20080203_224919_000000422065_00387_31002_3012.N1	03-FEB-2008 22:49:19	Dark	42.000	141	Bet Ara	2.8400	4600.0	84	31002	No
405	GOM_NL__2PRFIN20080203_225448_000000512065_00388_31003_3001.N1	03-FEB-2008 22:54:48	Dark	50.500	4	Alp1Cen	-0.010000	5800.0	101	31003	No
406	GOM_NL__2PRFIN20080203_225601_000000442065_00388_31003_3002.N1	03-FEB-2008 22:56:01	Dark	43.500	10	Bet Cen	0.61000	28000.	87	31003	No
407	GOM_NL__2PRFIN20080203_225923_000000432065_00388_31003_3003.N1	03-FEB-2008 22:59:23	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	31003	No
408	GOM_NL__2PRFIN20080203_230244_000000382065_00388_31003_3004.N1	03-FEB-2008 23:02:44	Dark	37.500	29	Bet Car	1.6720	10200.	75	31003	No
409	GOM_NL__2PRFIN20080203_230508_000000392065_00388_31003_3005.N1	03-FEB-2008 23:05:08	Dark	38.500	71	lot Car	2.2460	7700.0	77	31003	No
410	GOM_NL__2PRFIN20080203_230652_000000402065_00388_31003_3006.N1	03-FEB-2008 23:06:52	Dark	40.000	46	Del Vel	1.9540	10600.	80	31003	No
411	GOM_NL__2PRFIN20080203_230922_000000412065_00388_31003_3007.N1	03-FEB-2008 23:09:22	Straylight	41.000	34	Gam2Vel	1.7930	23000.	82	31003	No
412	GOM_NL__2PRFIN20080203_231127_000000402065_00388_31003_3008.N1	03-FEB-2008 23:11:27	Straylight	40.000	70	Zet Pup	2.2460	39000.	80	31003	No
413	GOM_NL__2PRFIN20080203_231248_000000412065_00388_31003_3009.N1	03-FEB-2008 23:12:48	Straylight	40.500	117	Pi Pup	2.7060	3800.0	81	31003	No
414	GOM_NL__2PRFIN20080203_231514_000000412065_00388_31003_3010.N1	03-FEB-2008 23:15:14	Straylight	40.500	23	21Eps CMa	1.5020	26000.	81	31003	No
415	GOM_NL__2PRFIN20080203_231636_000000392065_00388_31003_3011.N1	03-FEB-2008 23:16:36	Straylight	39.000	179	24Omi2CMa	3.0320	24000.	78	31003	No
416	GOM_NL__2PRFIN20080203_231846_000000462065_00388_31003_3012.N1	03-FEB-2008 23:18:46	Straylight	46.000	1	9Alp CMa	-1.4400	11000.	92	31003	No
417	GOM_NL__2PRFIN20080203_232427_000000522065_00388_31003_3013.N1	03-FEB-2008 23:24:27	Twilight	52.000	8	10Alp CMi	0.40000	6500.0	104	31003	No
418	GOM_NL__2PRFIN20080203_232759_000000382065_00388_31003_3014.N1	03-FEB-2008 23:27:59	Bright	37.500	44	24Gam Gem	1.9280	11000.	75	31003	No
419	GOM_NL__2PRFIN20080203_232951_000000372065_00388_31003_3015.N1	03-FEB-2008 23:29:51	Bright	37.000	151	13Mu Gem	2.8900	3000.0	74	31003	No
420	GOM_NL__2PRFIN20080203_233206_000000382065_00388_31003_3016.N1	03-FEB-2008 23:32:06	Bright	38.000	24	66Alp Gem	1.5800	10200.	76	31003	No
421	GOM_NL__2PRFIN20080203_233410_000000362065_00388_31003_3017.N1	03-FEB-2008 23:34:10	Bright	36.000	107	37The Aur	2.6490	11000.	72	31003	No
422	GOM_NL__2PRFIN20080203_233614_000000352065_00388_31003_3018.N1	03-FEB-2008 23:36:14	Bright	34.500	42	34Bet Aur	1.9000	10200.	69	31003	No
423	GOM_NL__2PRFIN20080203_234822_000000342065_00388_31003_3019.N1	03-FEB-2008 23:48:22	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	31003	No
424	GOM_NL__2PRFIN20080203_235920_000000392065_00388_31003_3020.N1	03-FEB-2008 23:59:20	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	31003	No

3. Quality information per product

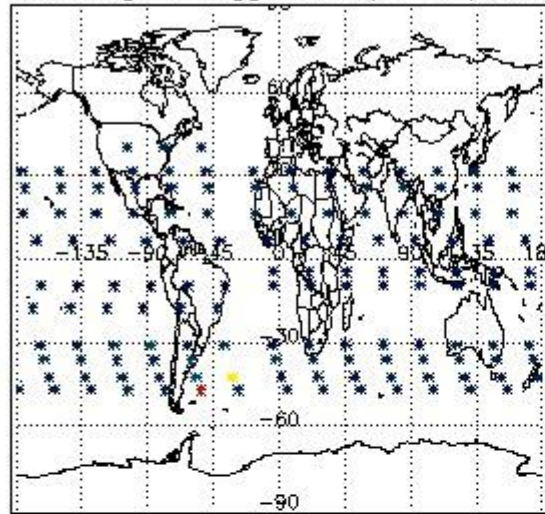
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

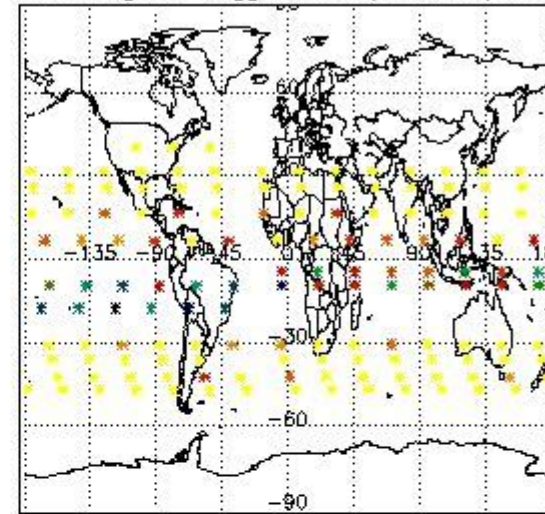


3.2 Plot quality information per product (world map)

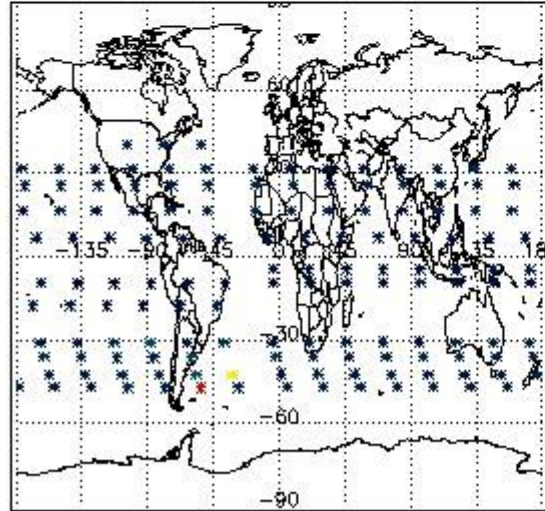
Percentage of flagged data per O3 profile



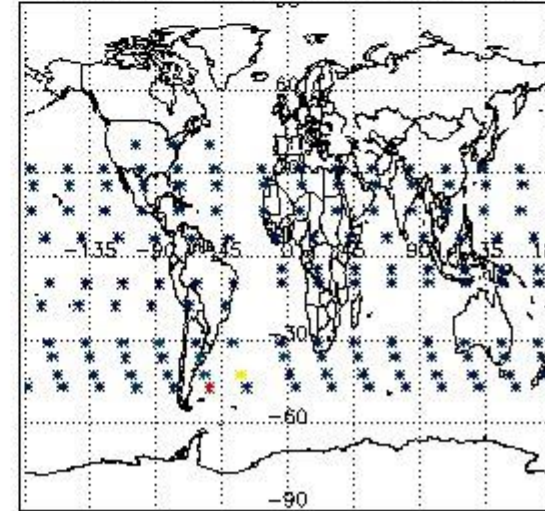
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

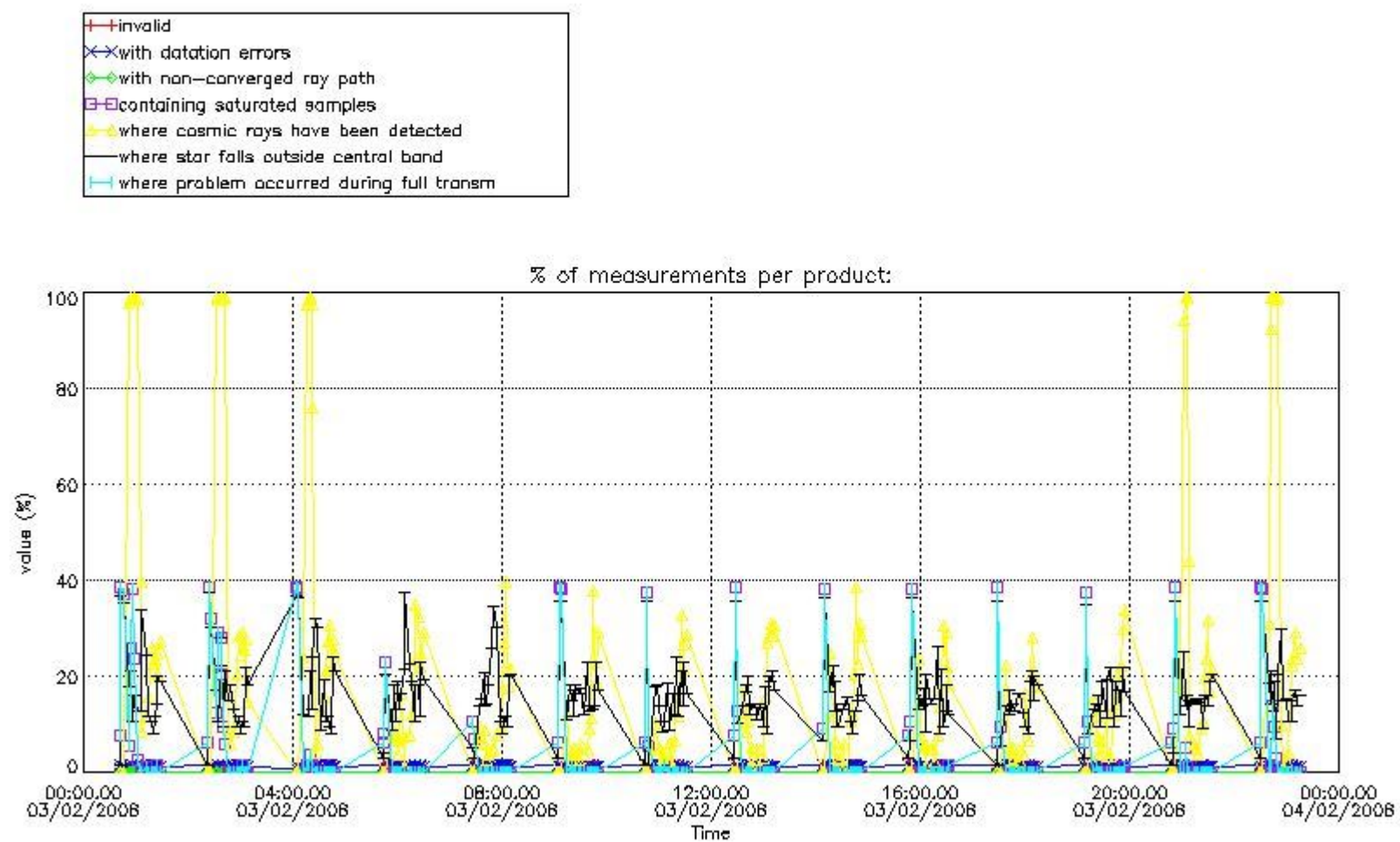


4. Level 1 quality information per product

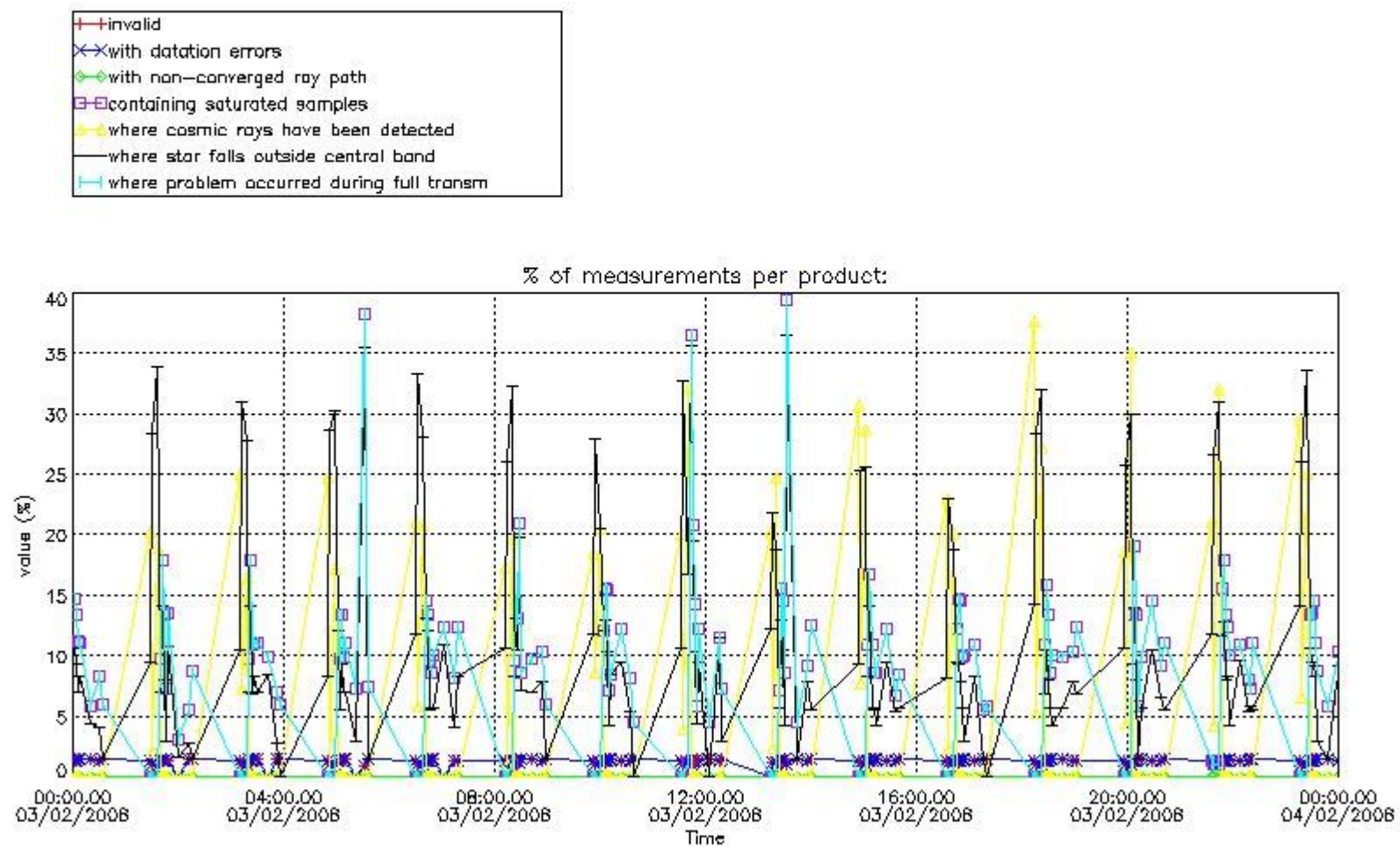
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



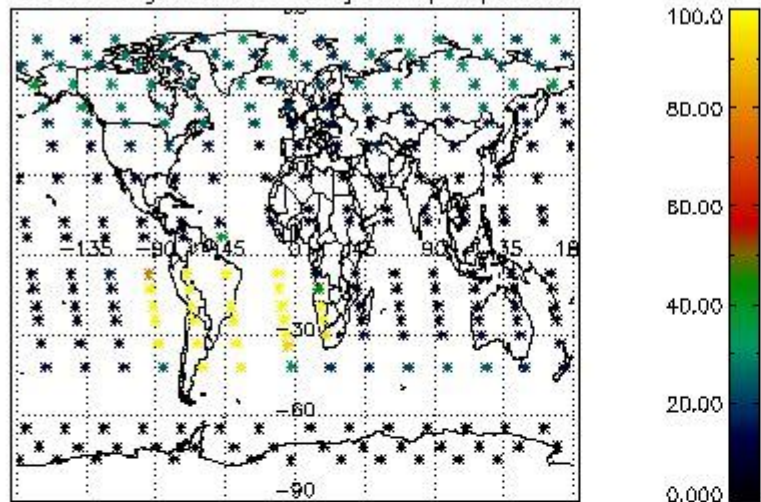
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



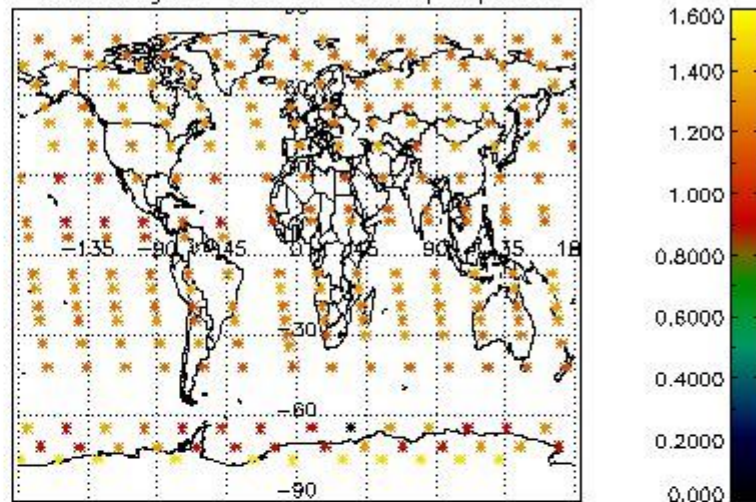
4.2 Plot quality information per product coming from level 1b processing (world map)

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

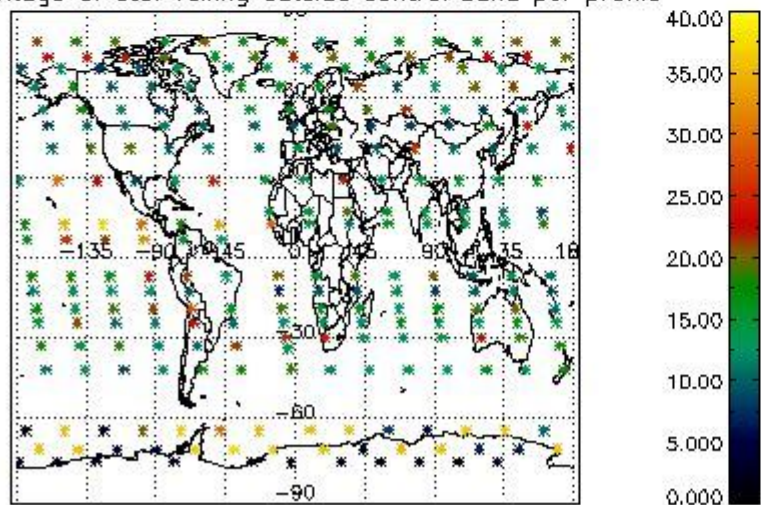
Percentage of cosmic ray hits per profile



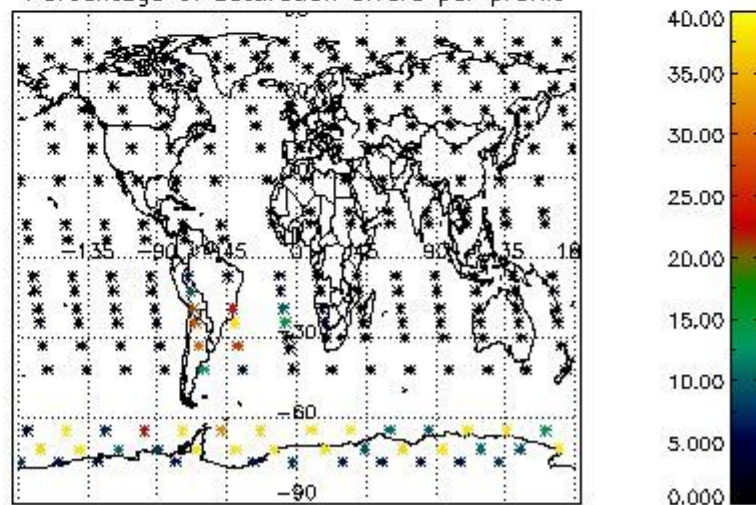
Percentage of datation errors per profile



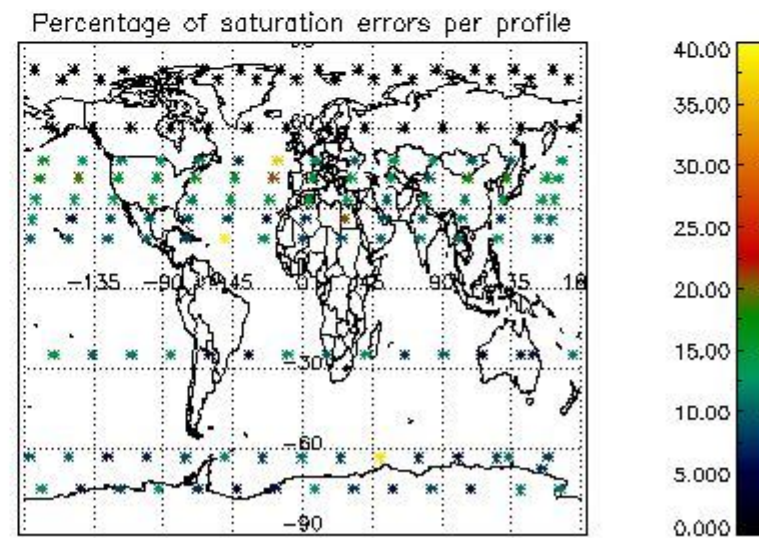
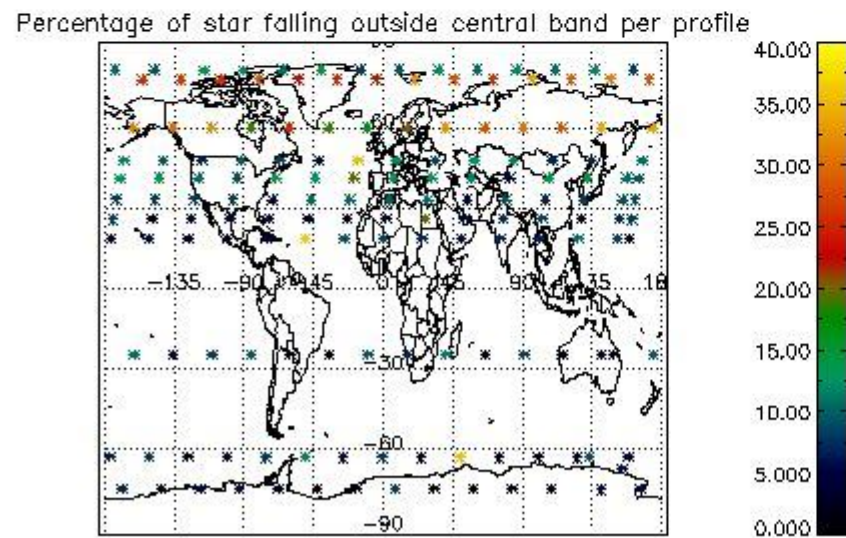
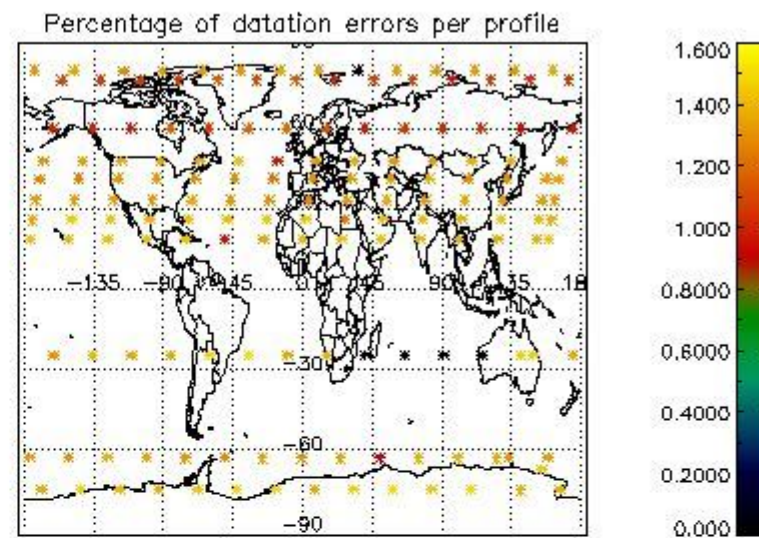
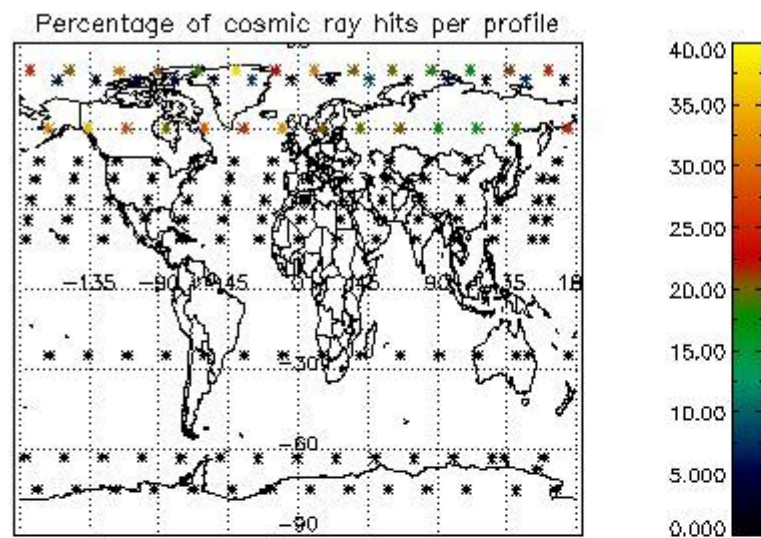
Percentage of star falling outside central band per profile



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

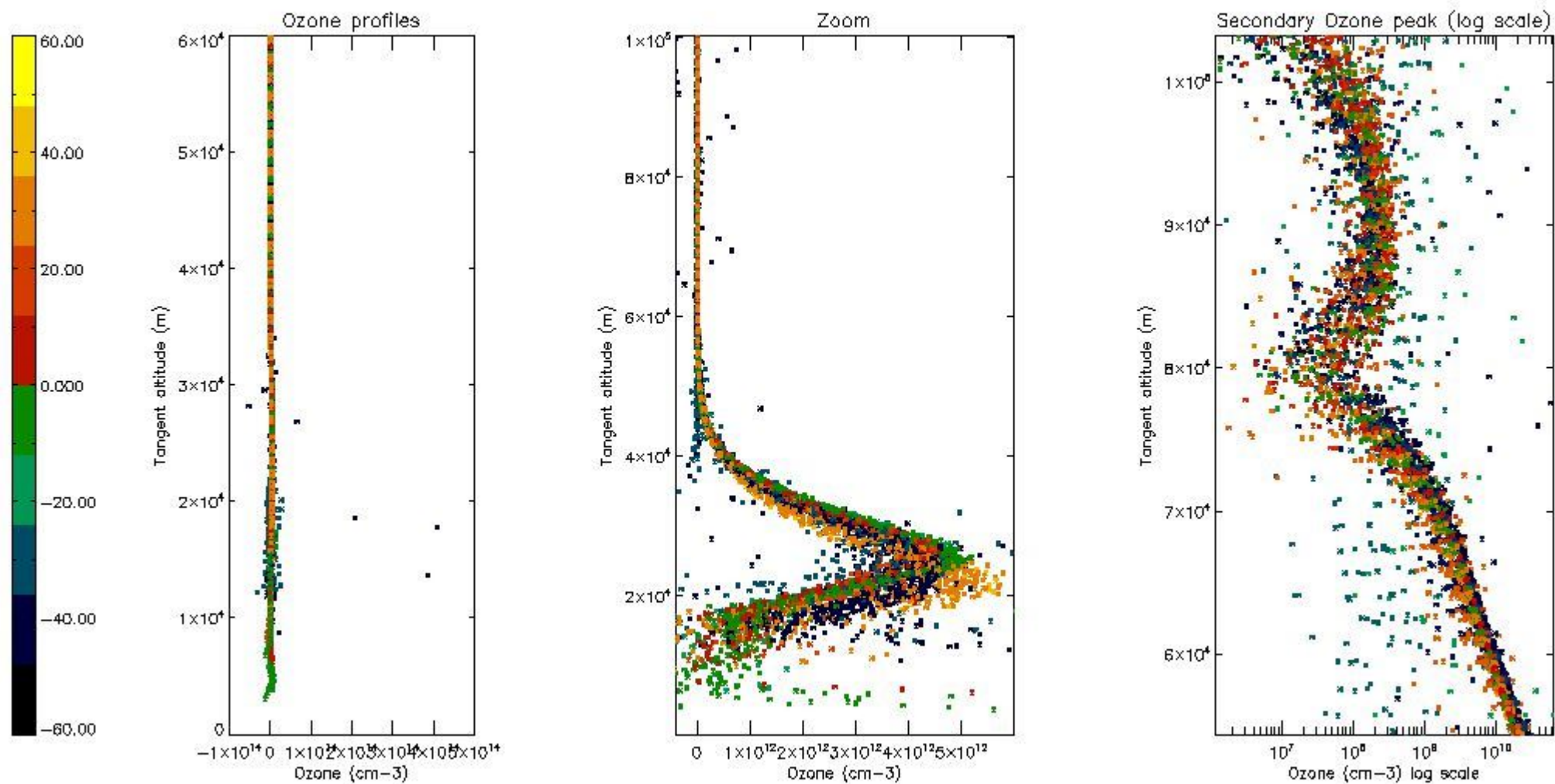
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	34
STD < 20	19

STD < 10	15
STD < 5	10

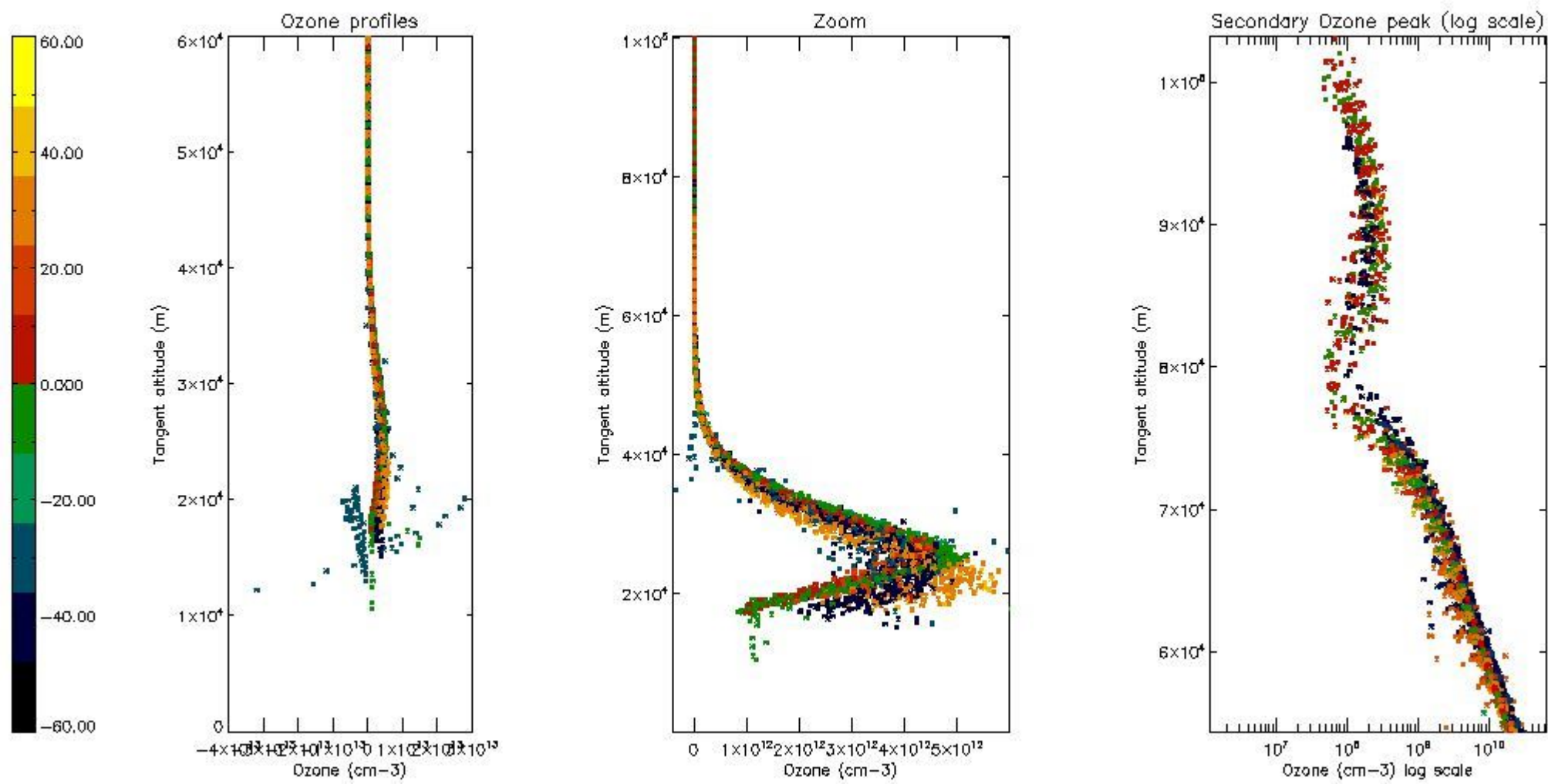
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



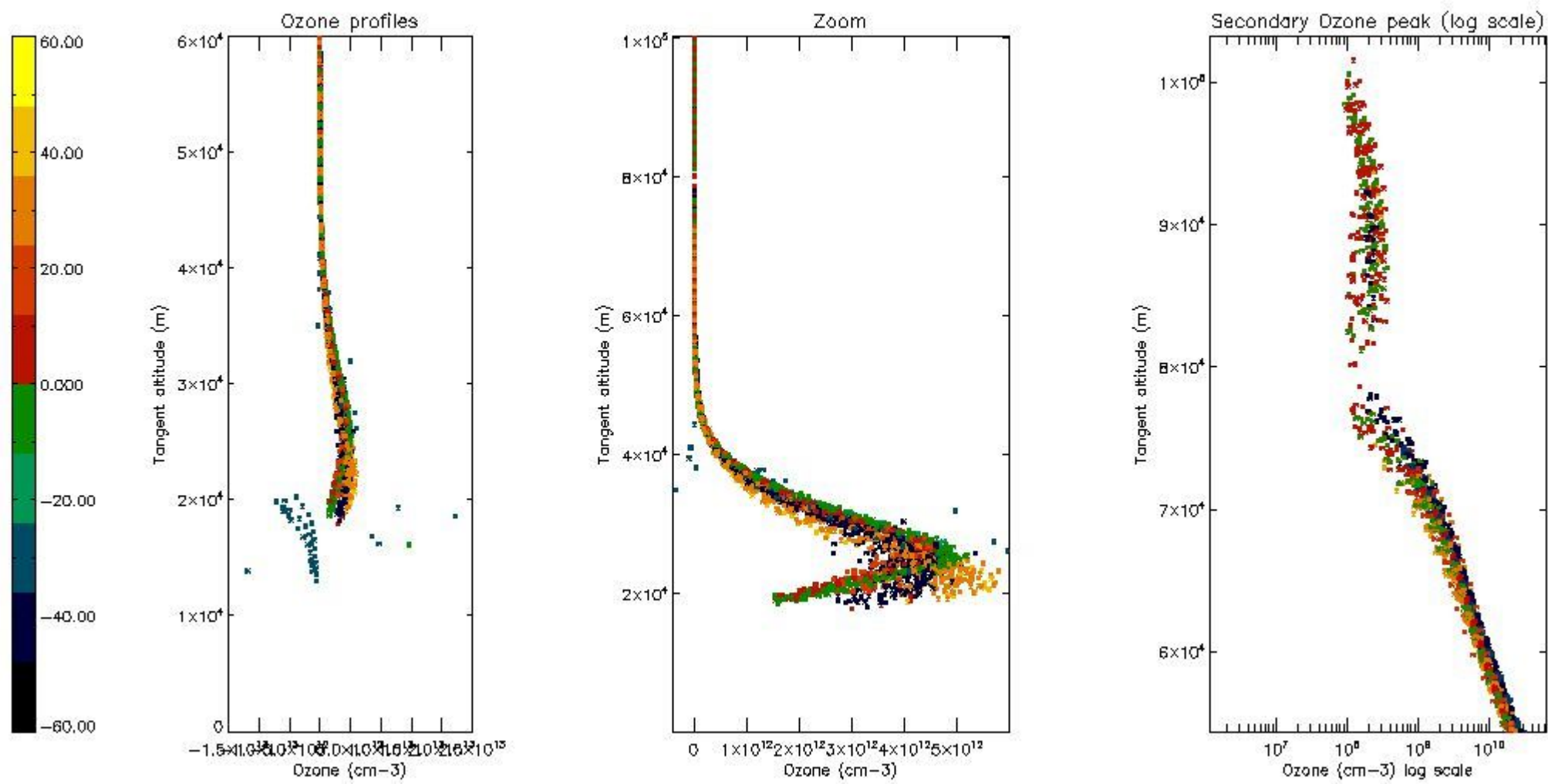
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



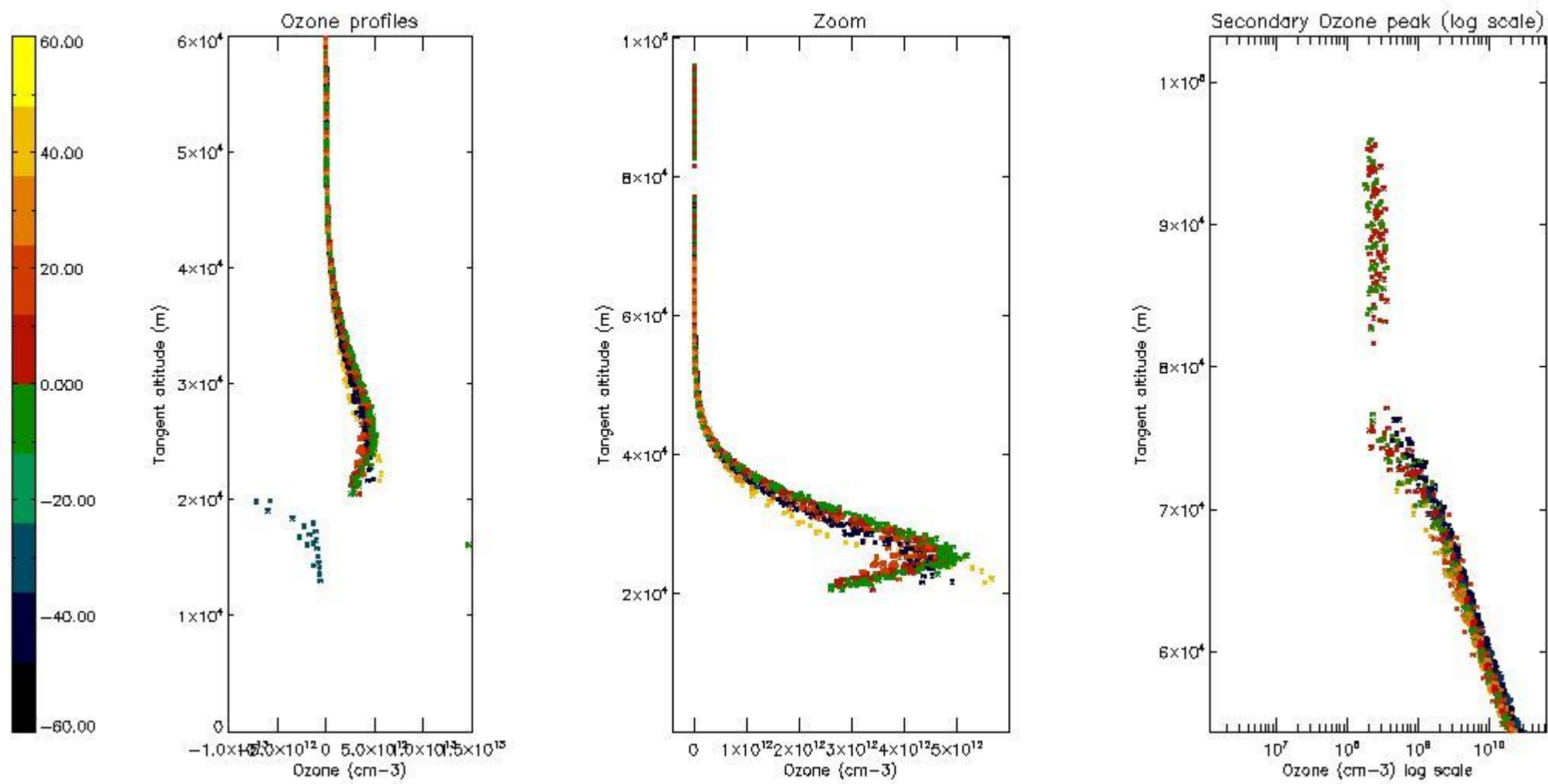
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



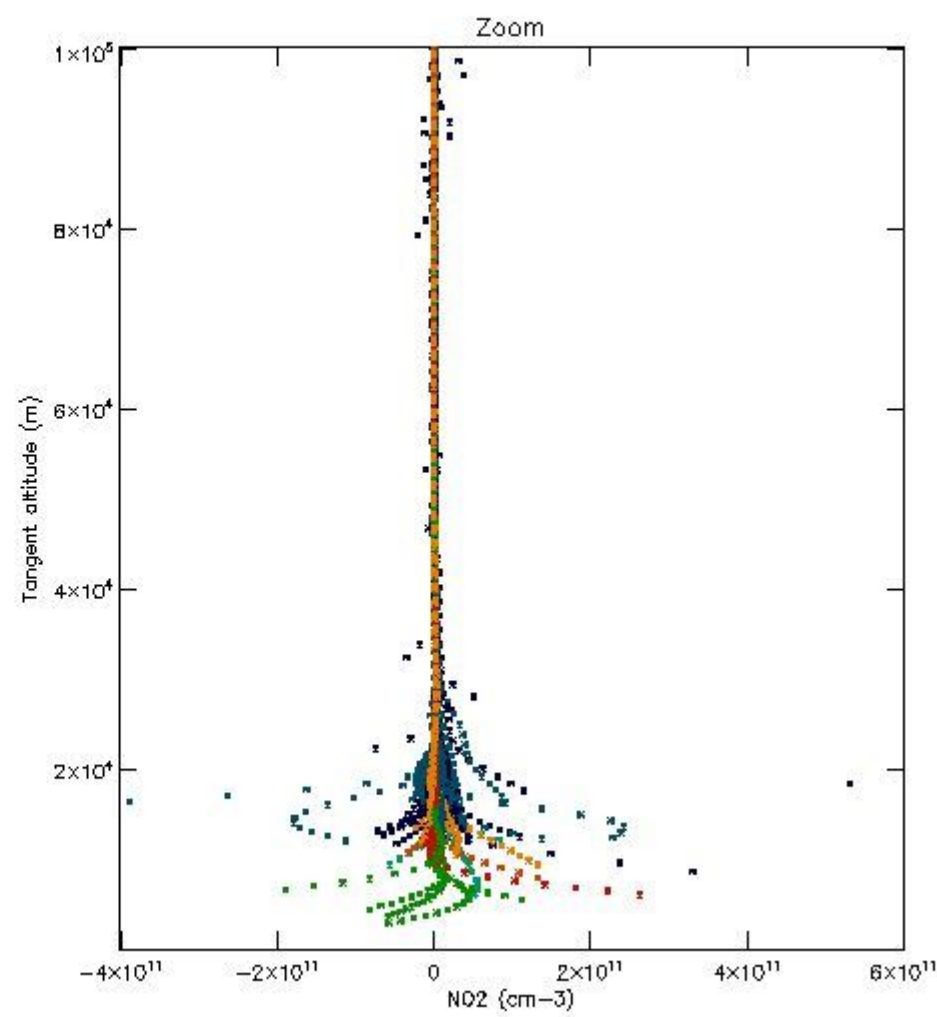
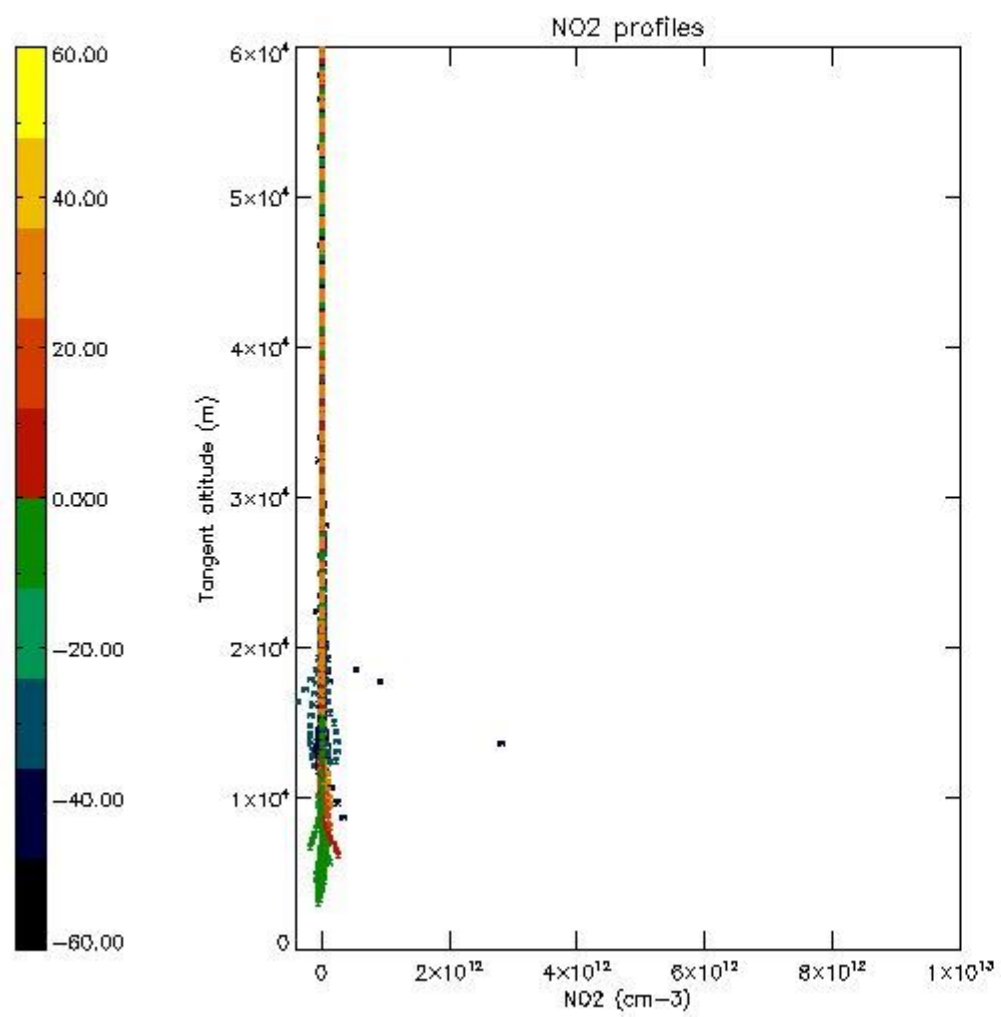
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



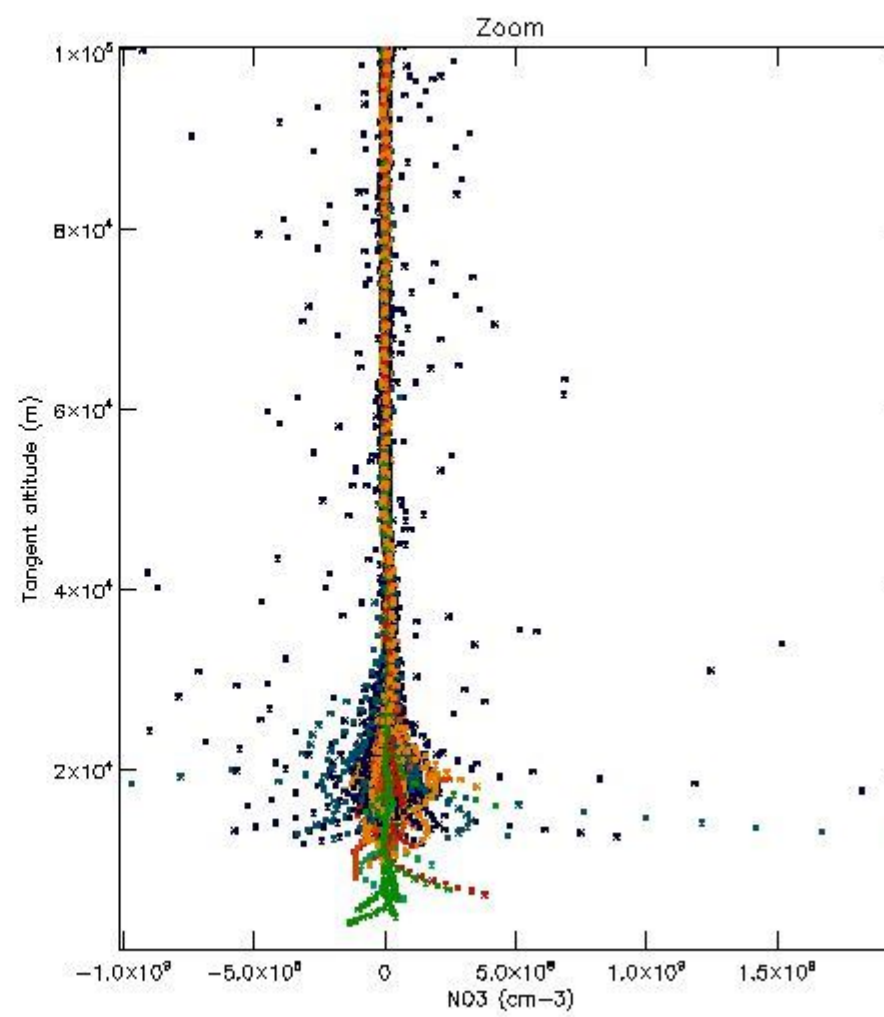
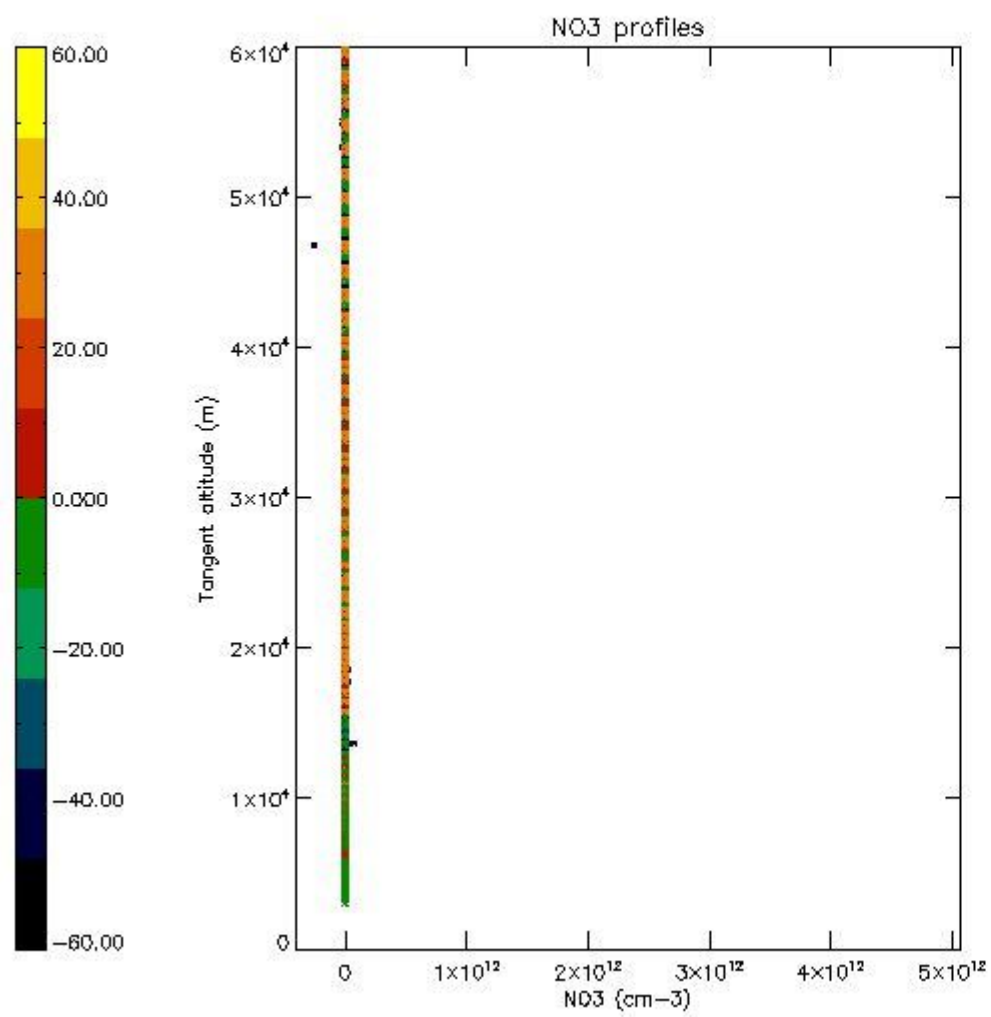
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



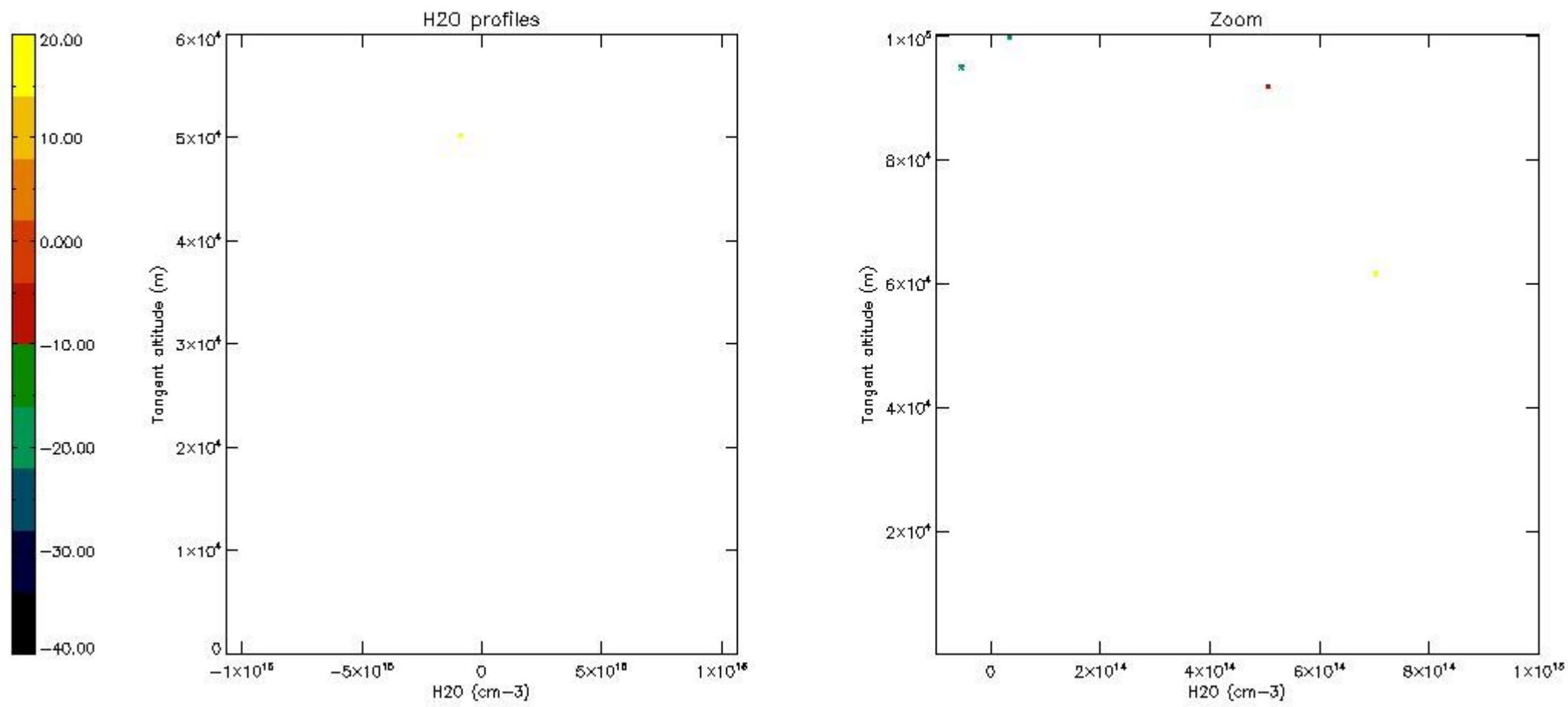
5.7 Plot NO3 profiles for all STD (dark without errors)

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	03-FEB-2008 00:01:25
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	03-FEB-2008 00:01:25
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	03-FEB-2008 00:01:25

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

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[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 09:58:04
Data source version	GOMOS/6.01
Start time of products	03-02-2008 (03FEB2008 00:00:00)
Stop time of products	04-02-2008 (04FEB2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	424
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

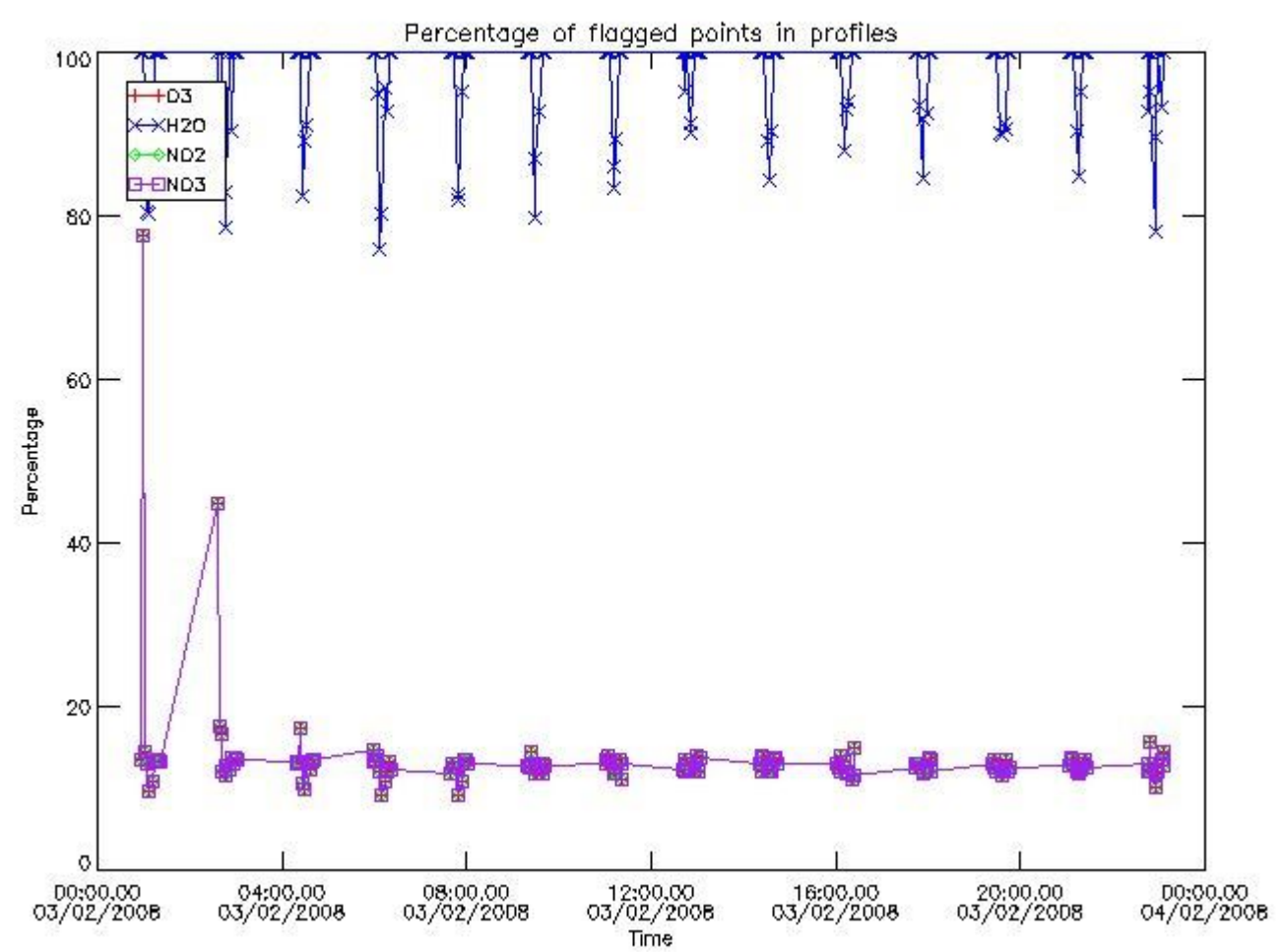
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20080203_000125_000000382065_00374_30989_2805.N1	03-FEB-2008 00:01:25	Bright	37.500	151	13Mu Gem	2.8900	3000.0	75	30989	No
2	GOM_NL__2PRFIN20080203_000345_000000382065_00374_30989_2806.N1	03-FEB-2008 00:03:45	Bright	37.500	24	66Alp Gem	1.5800	10200.	75	30989	No
3	GOM_NL__2PRFIN20080203_000544_000000362065_00374_30989_2807.N1	03-FEB-2008 00:05:44	Bright	35.500	107	37The Aur	2.6490	11000.	71	30989	No
4	GOM_NL__2PRFIN20080203_000748_000000362065_00374_30989_2808.N1	03-FEB-2008 00:07:48	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	30989	No
5	GOM_NL__2PRFIN20080203_001959_000000342065_00374_30989_2809.N1	03-FEB-2008 00:19:59	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	30989	No
6	GOM_NL__2PRFIN20080203_003057_000000372065_00374_30989_2810.N1	03-FEB-2008 00:30:57	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	30989	No
7	GOM_NL__2PRFIN20080203_003439_000000342065_00374_30989_2811.N1	03-FEB-2008 00:34:39	Bright	33.500	5	3Alp Lyr	0.033000	11000.	67	30989	No
8	GOM_NL__2PRFIN20080203_004119_000000332065_00374_30989_2812.N1	03-FEB-2008 00:41:19	Bright	33.000	168	17Zet Aql	2.9860	11000.	66	30989	No
9	GOM_NL__2PRFIN20080203_004255_000000562065_00374_30989_2813.N1	03-FEB-2008 00:42:55	Bright	56.000	59	55Alp Oph	2.0800	8900.0	112	30989	No
10	GOM_NL__2PRFIN20080203_004503_000000542065_00374_30989_2814.N1	03-FEB-2008 00:45:03	Bright	54.000	126	60Bet Oph	2.7700	4250.0	108	30989	No
11	GOM_NL__2PRFIN20080203_005136_000000452065_00374_30989_2815.N1	03-FEB-2008 00:51:36	Twilight	44.500	86	35Eta Oph	2.4300	10200.	89	30989	No
12	GOM_NL__2PRFIN20080203_005413_000000432065_00374_30989_2816.N1	03-FEB-2008 00:54:13	Twilight	42.500	167	10Gam2Sgr	2.9840	4500.0	85	30989	No
13	GOM_NL__2PRFIN20080203_005636_000000382065_00374_30989_2817.N1	03-FEB-2008 00:56:36	Dark	38.000	25	35Lam Sco	1.6200	28000.	76	30989	No
14	GOM_NL__2PRFIN20080203_005803_000000412065_00374_30989_2818.N1	03-FEB-2008 00:58:03	Dark	40.500	40	The Sco	1.8590	7100.0	81	30989	No
15	GOM_NL__2PRFIN20080203_010128_000000392065_00374_30989_2819.N1	03-FEB-2008 01:01:28	Dark	39.000	141	Bet Ara	2.8400	4600.0	78	30989	No
16	GOM_NL__2PRFIN20080203_010520_000000392065_00375_30990_2808.N1	03-FEB-2008 01:05:20	Dark	39.000	43	Alp TrA	1.9100	4250.0	78	30990	No
17	GOM_NL__2PRFIN20080203_010654_000000542065_00375_30990_2809.N1	03-FEB-2008 01:06:54	Dark	53.500	4	Alp1Cen	-0.010000	5800.0	107	30990	No
18	GOM_NL__2PRFIN20080203_011129_000000472065_00375_30990_2810.N1	03-FEB-2008 01:11:29	Dark	47.000	12	Alp1Cru	0.77500	30000.	94	30990	No
19	GOM_NL__2PRFIN20080203_011454_000000392065_00375_30990_2811.N1	03-FEB-2008 01:14:54	Dark	38.500	29	Bet Car	1.6720	10200.	77	30990	No
20	GOM_NL__2PRFIN20080203_011717_000000392065_00375_30990_2812.N1	03-FEB-2008 01:17:17	Dark	38.500	71	lot Car	2.2460	7700.0	77	30990	No
21	GOM_NL__2PRFIN20080203_011902_000000382065_00375_30990_2813.N1	03-FEB-2008 01:19:02	Dark	37.500	46	Del Vel	1.9540	10600.	75	30990	No
22	GOM_NL__2PRFIN20080203_012132_000000392065_00375_30990_2814.N1	03-FEB-2008 01:21:32	Dark	38.500	34	Gam2Vel	1.7930	23000.	77	30990	No
23	GOM_NL__2PRFIN20080203_012337_000000392065_00375_30990_2815.N1	03-FEB-2008 01:23:37	Straylight	39.000	70	Zet Pup	2.2460	39000.	78	30990	No
24	GOM_NL__2PRFIN20080203_012458_000000432065_00375_30990_2816.N1	03-FEB-2008 01:24:58	Straylight	42.500	117	Pi Pup	2.7060	3800.0	85	30990	No
25	GOM_NL__2PRFIN20080203_012724_000000422065_00375_30990_2817.N1	03-FEB-2008 01:27:24	Straylight	42.000	23	21Eps CMa	1.5020	26000.	84	30990	No
26	GOM_NL__2PRFIN20080203_012847_000000372065_00375_30990_2818.N1	03-FEB-2008 01:28:47	Straylight	37.000	179	24Omi2CMa	3.0320	24000.	74	30990	No
27	GOM_NL__2PRFIN20080203_013057_000000482065_00375_30990_2819.N1	03-FEB-2008 01:30:57	Straylight	47.500	1	9Alp CMa	-1.4400	11000.	95	30990	No
28	GOM_NL__2PRFIN20080203_013640_000000532065_00375_30990_2820.N1	03-FEB-2008 01:36:40	Twilight	53.000	8	10Alp CMi	0.40000	6500.0	106	30990	No
29	GOM_NL__2PRFIN20080203_014010_000000362065_00375_30990_2821.N1	03-FEB-2008 01:40:10	Bright	36.000	44	24Gam Gem	1.9280	11000.	72	30990	No
30	GOM_NL__2PRFIN20080203_014201_000000392065_00375_30990_2822.N1	03-FEB-2008 01:42:01	Bright	39.000	151	13Mu Gem	2.8900	3000.0	78	30990	No
31	GOM_NL__2PRFIN20080203_014421_000000382065_00375_30990_2823.N1	03-FEB-2008 01:44:21	Bright	37.500	24	66Alp Gem	1.5800	10200.	75	30990	No
32	GOM_NL__2PRFIN20080203_014620_000000352065_00375_30990_2824.N1	03-FEB-2008 01:46:20	Bright	34.500	107	37The Aur	2.6490	11000.	69	30990	No
33	GOM_NL__2PRFIN20080203_014824_000000372065_00375_30990_2825.N1	03-FEB-2008 01:48:24	Bright	37.000	42	34Bet Aur	1.9000	10200.	74	30990	No
34	GOM_NL__2PRFIN20080203_020035_000000322065_00375_30990_2826.N1	03-FEB-2008 02:00:35	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	30990	No
35	GOM_NL__2PRFIN20080203_021133_000000362065_00375_30990_2827.N1	03-FEB-2008 02:11:33	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	30990	No
36	GOM_NL__2PRFIN20080203_021515_000000352065_00375_30990_2828.N1	03-FEB-2008 02:15:15	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	30990	No
37	GOM_NL__2PRFIN20080203_022155_000000332065_00375_30990_2829.N1	03-FEB-2008 02:21:55	Bright	32.500	168	17Zet Aql	2.9860	11000.	65	30990	No
38	GOM_NL__2PRFIN20080203_022331_000000562065_00375_30990_2830.N1	03-FEB-2008 02:23:31	Bright	56.000	59	55Alp Oph	2.0800	8900.0	112	30990	No
39	GOM_NL__2PRFIN20080203_022539_000000502065_00375_30990_2831.N1	03-FEB-2008 02:25:39	Bright	50.000	126	60Bet Oph	2.7700	4250.0	100	30990	No
40	GOM_NL__2PRFIN20080203_023212_000000442065_00375_30990_2832.N1	03-FEB-2008 02:32:12	Twilight	44.000	86	35Eta Oph	2.4300	10200.	88	30990	No
41	GOM_NL__2PRFIN20080203_023449_000000382065_00375_30990_2833.N1	03-FEB-2008 02:34:49	Twilight	38.000	167	10Gam2Sgr	2.9840	4500.0	76	30990	No
42	GOM_NL__2PRFIN20080203_023712_000000432065_00375_30990_2834.N1	03-FEB-2008 02:37:12	Dark	43.000	25	35Lam Sco	1.6200	28000.	86	30990	No

397	GOM_NL__2PRFIN20080203_223255_000000552065_00387_31002_3005.N1	03-FEB-2008 22:32:55	Bright	55.000	126	60Bet Oph	2.7700	4250.0	110	31002	No
398	GOM_NL__2PRFIN20080203_223930_000000462065_00387_31002_3006.N1	03-FEB-2008 22:39:30	Twilight	45.500	86	35Eta Oph	2.4300	10200.	91	31002	No
399	GOM_NL__2PRFIN20080203_224140_000000392065_00387_31002_3007.N1	03-FEB-2008 22:41:40	Twilight	39.000	116	19Del Sgr	2.7000	4100.0	78	31002	No
400	GOM_NL__2PRFIN20080203_224252_000000432065_00387_31002_3008.N1	03-FEB-2008 22:42:52	Twilight	42.500	38	20Eps Sgr	1.8360	11000.	85	31002	No
401	GOM_NL__2PRFIN20080203_224427_000000402065_00387_31002_3009.N1	03-FEB-2008 22:44:27	Dark	39.500	25	35Lam Sco	1.6200	28000.	79	31002	No
402	GOM_NL__2PRFIN20080203_224554_000000422065_00387_31002_3010.N1	03-FEB-2008 22:45:54	Dark	42.000	40	The Sco	1.8590	7100.0	84	31002	No
403	GOM_NL__2PRFIN20080203_224746_000000362065_00387_31002_3011.N1	03-FEB-2008 22:47:46	Dark	36.000	147	Alp Ara	2.8770	26000.	72	31002	No
404	GOM_NL__2PRFIN20080203_224919_000000422065_00387_31002_3012.N1	03-FEB-2008 22:49:19	Dark	42.000	141	Bet Ara	2.8400	4600.0	84	31002	No
405	GOM_NL__2PRFIN20080203_225448_000000512065_00388_31003_3001.N1	03-FEB-2008 22:54:48	Dark	50.500	4	Alp1Cen	-0.010000	5800.0	101	31003	No
406	GOM_NL__2PRFIN20080203_225601_000000442065_00388_31003_3002.N1	03-FEB-2008 22:56:01	Dark	43.500	10	Bet Cen	0.61000	28000.	87	31003	No
407	GOM_NL__2PRFIN20080203_225923_000000432065_00388_31003_3003.N1	03-FEB-2008 22:59:23	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	31003	No
408	GOM_NL__2PRFIN20080203_230244_000000382065_00388_31003_3004.N1	03-FEB-2008 23:02:44	Dark	37.500	29	Bet Car	1.6720	10200.	75	31003	No
409	GOM_NL__2PRFIN20080203_230508_000000392065_00388_31003_3005.N1	03-FEB-2008 23:05:08	Dark	38.500	71	lot Car	2.2460	7700.0	77	31003	No
410	GOM_NL__2PRFIN20080203_230652_000000402065_00388_31003_3006.N1	03-FEB-2008 23:06:52	Dark	40.000	46	Del Vel	1.9540	10600.	80	31003	No
411	GOM_NL__2PRFIN20080203_230922_000000412065_00388_31003_3007.N1	03-FEB-2008 23:09:22	Straylight	41.000	34	Gam2Vel	1.7930	23000.	82	31003	No
412	GOM_NL__2PRFIN20080203_231127_000000402065_00388_31003_3008.N1	03-FEB-2008 23:11:27	Straylight	40.000	70	Zet Pup	2.2460	39000.	80	31003	No
413	GOM_NL__2PRFIN20080203_231248_000000412065_00388_31003_3009.N1	03-FEB-2008 23:12:48	Straylight	40.500	117	Pi Pup	2.7060	3800.0	81	31003	No
414	GOM_NL__2PRFIN20080203_231514_000000412065_00388_31003_3010.N1	03-FEB-2008 23:15:14	Straylight	40.500	23	21Eps CMa	1.5020	26000.	81	31003	No
415	GOM_NL__2PRFIN20080203_231636_000000392065_00388_31003_3011.N1	03-FEB-2008 23:16:36	Straylight	39.000	179	24Omi2CMa	3.0320	24000.	78	31003	No
416	GOM_NL__2PRFIN20080203_231846_000000462065_00388_31003_3012.N1	03-FEB-2008 23:18:46	Straylight	46.000	1	9Alp CMa	-1.4400	11000.	92	31003	No
417	GOM_NL__2PRFIN20080203_232427_000000522065_00388_31003_3013.N1	03-FEB-2008 23:24:27	Twilight	52.000	8	10Alp CMi	0.40000	6500.0	104	31003	No
418	GOM_NL__2PRFIN20080203_232759_000000382065_00388_31003_3014.N1	03-FEB-2008 23:27:59	Bright	37.500	44	24Gam Gem	1.9280	11000.	75	31003	No
419	GOM_NL__2PRFIN20080203_232951_000000372065_00388_31003_3015.N1	03-FEB-2008 23:29:51	Bright	37.000	151	13Mu Gem	2.8900	3000.0	74	31003	No
420	GOM_NL__2PRFIN20080203_233206_000000382065_00388_31003_3016.N1	03-FEB-2008 23:32:06	Bright	38.000	24	66Alp Gem	1.5800	10200.	76	31003	No
421	GOM_NL__2PRFIN20080203_233410_000000362065_00388_31003_3017.N1	03-FEB-2008 23:34:10	Bright	36.000	107	37The Aur	2.6490	11000.	72	31003	No
422	GOM_NL__2PRFIN20080203_233614_000000352065_00388_31003_3018.N1	03-FEB-2008 23:36:14	Bright	34.500	42	34Bet Aur	1.9000	10200.	69	31003	No
423	GOM_NL__2PRFIN20080203_234822_000000342065_00388_31003_3019.N1	03-FEB-2008 23:48:22	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	31003	No
424	GOM_NL__2PRFIN20080203_235920_000000392065_00388_31003_3020.N1	03-FEB-2008 23:59:20	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	31003	No

3. Quality information per product

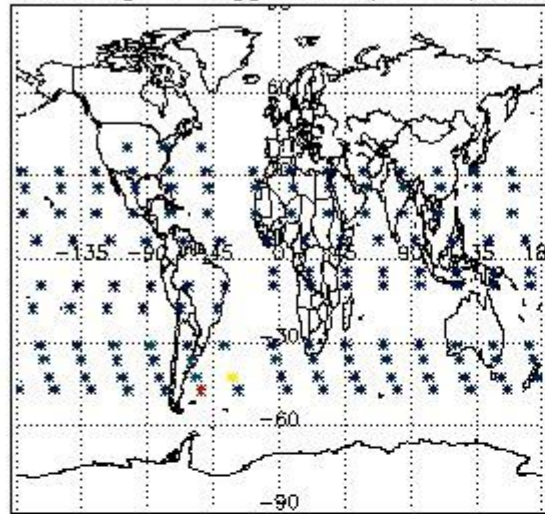
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

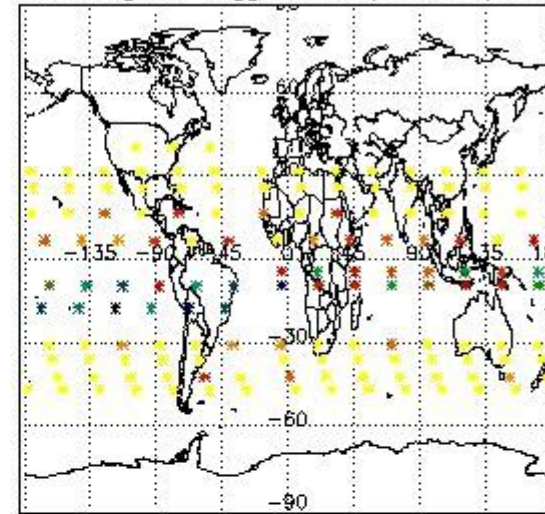


3.2 Plot quality information per product (world map)

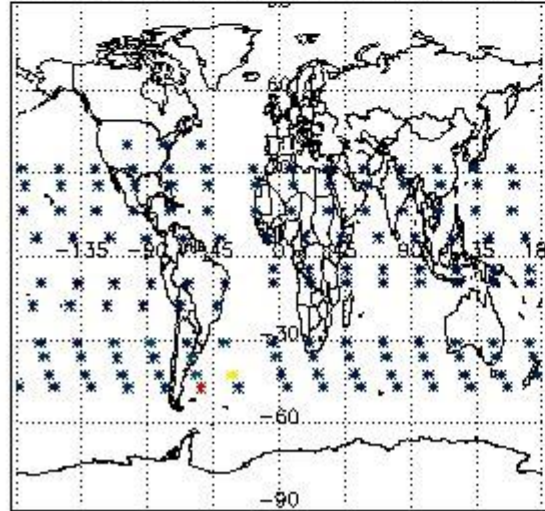
Percentage of flagged data per O3 profile



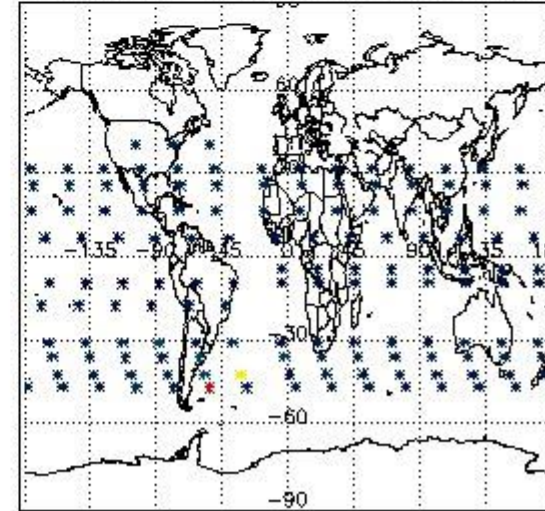
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

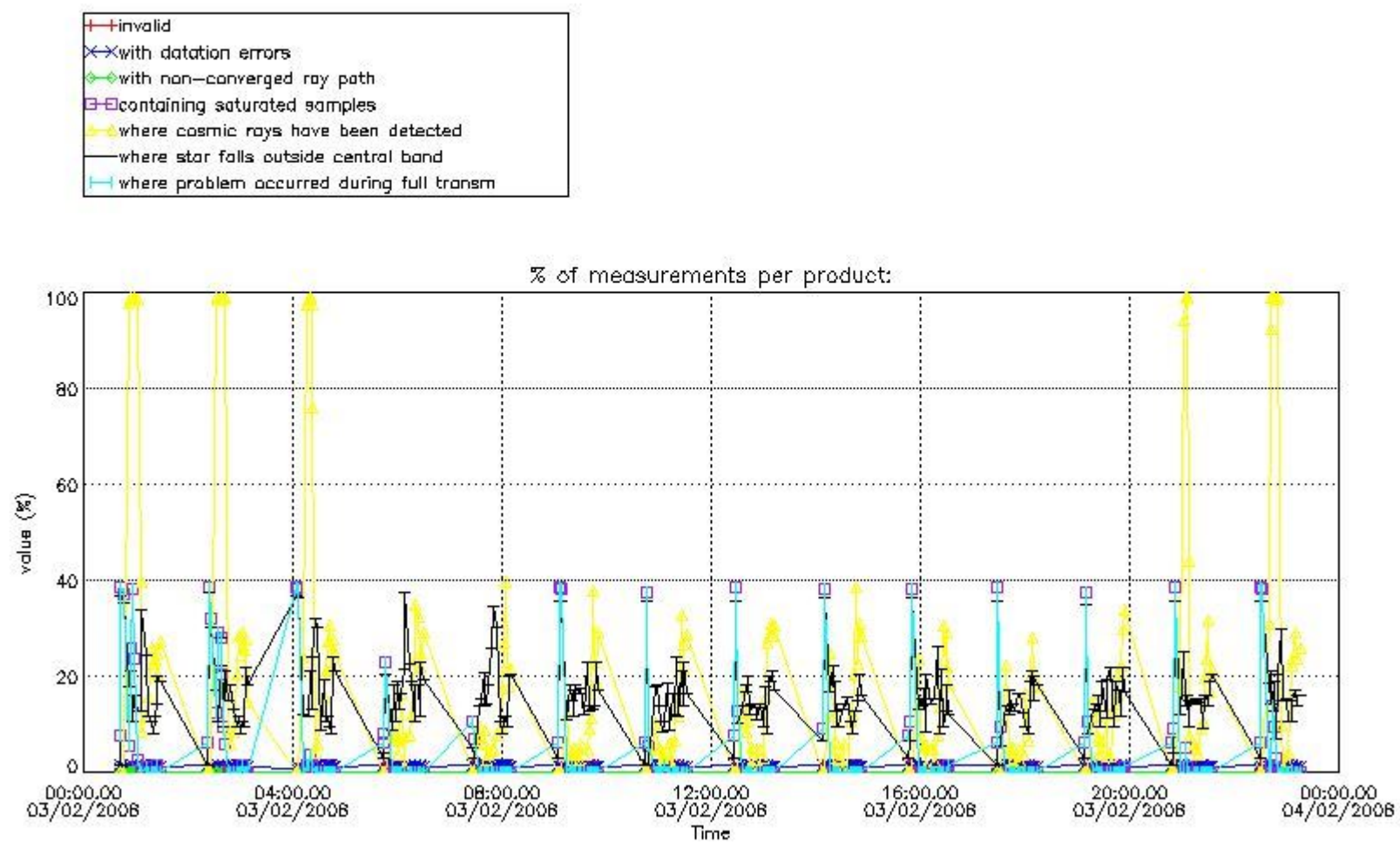


4. Level 1 quality information per product

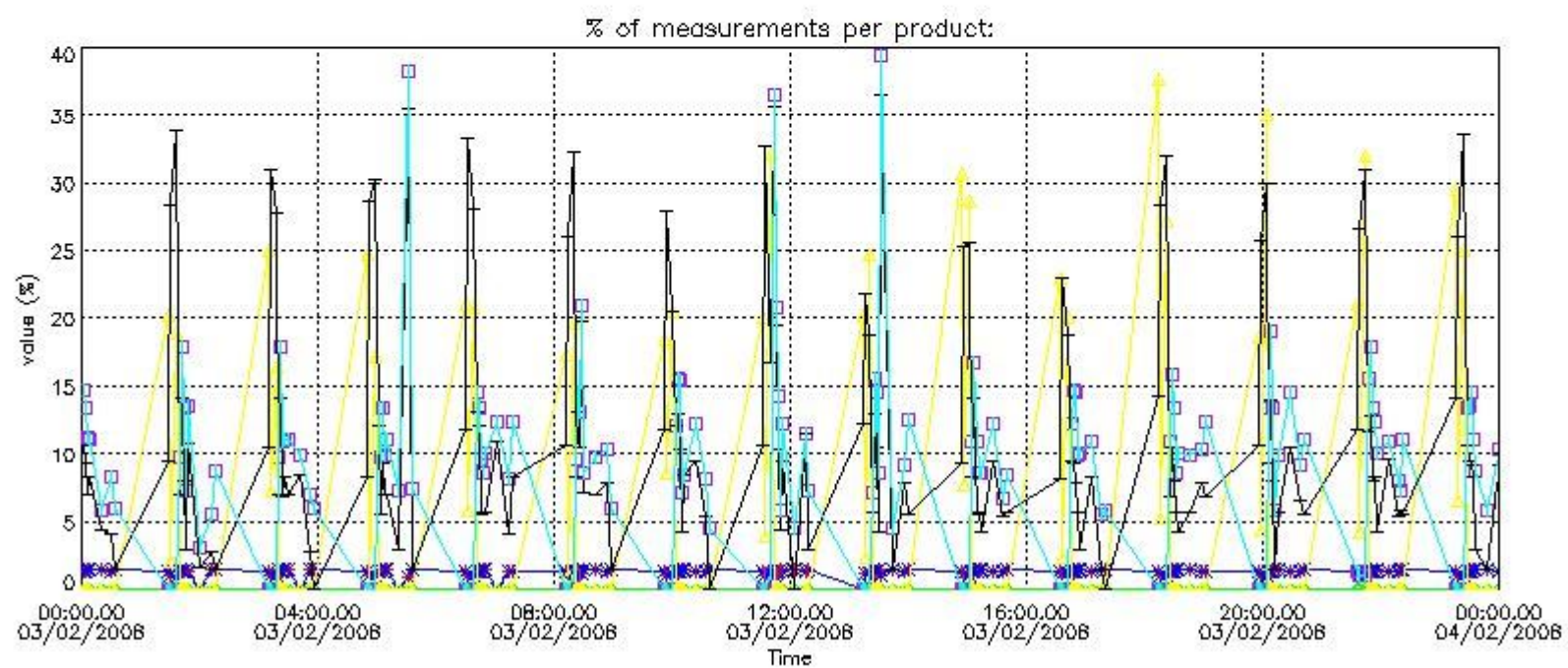
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



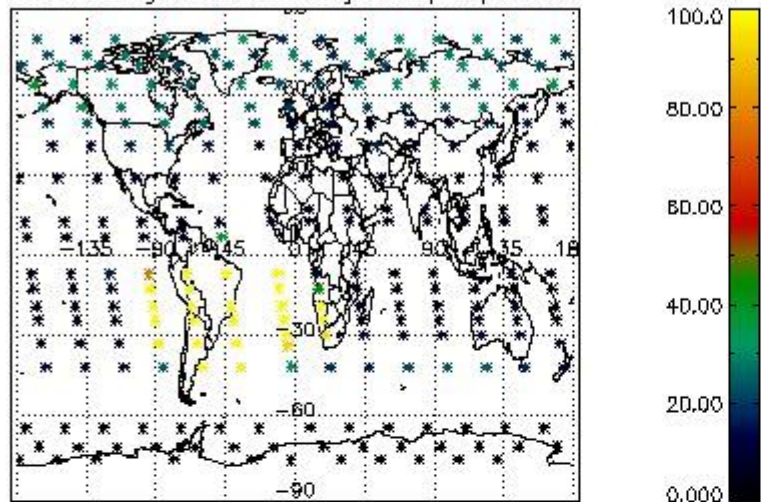
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



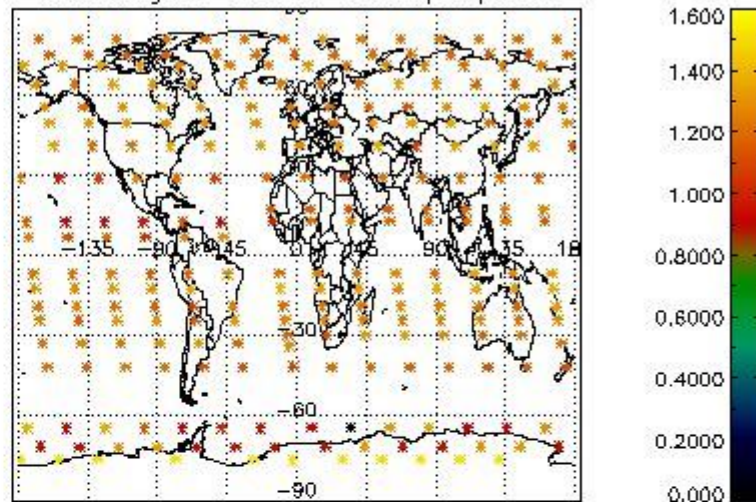
4.2 Plot quality information per product coming from level 1b processing (world map)

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

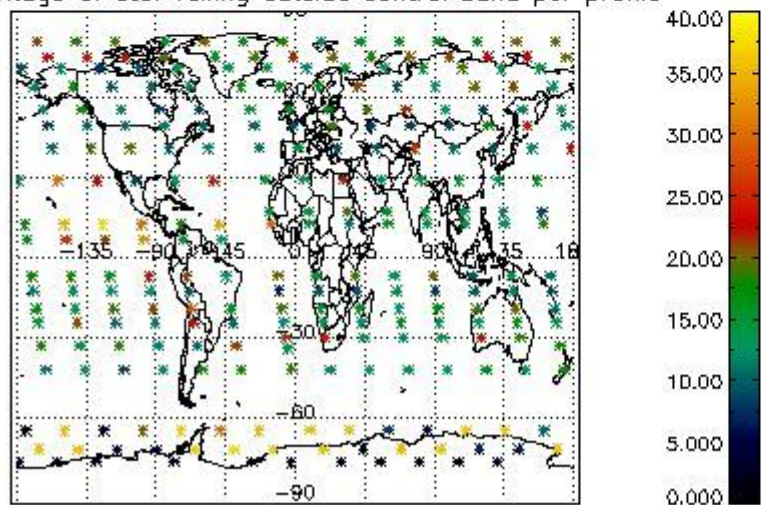
Percentage of cosmic ray hits per profile



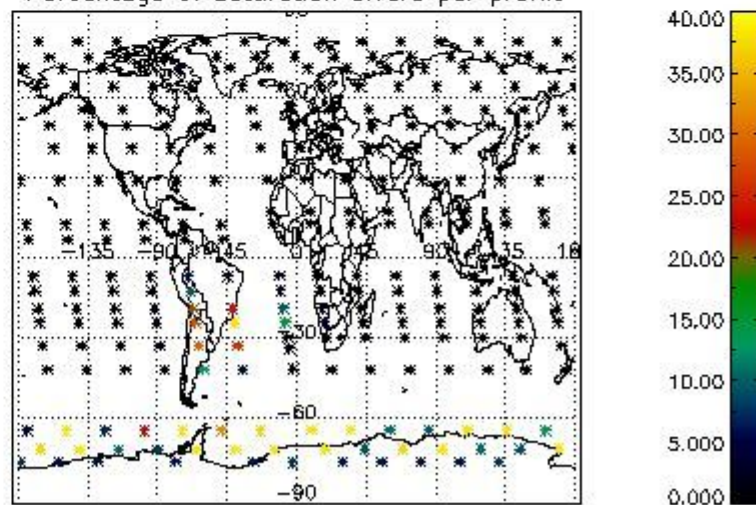
Percentage of datation errors per profile



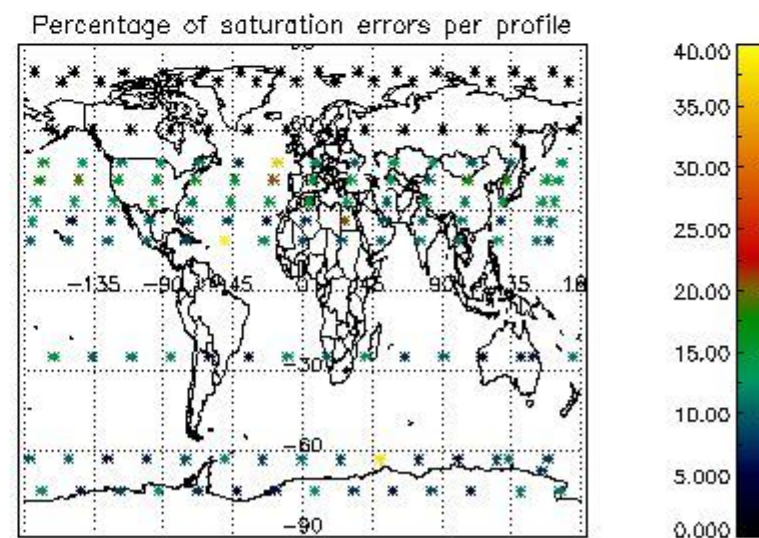
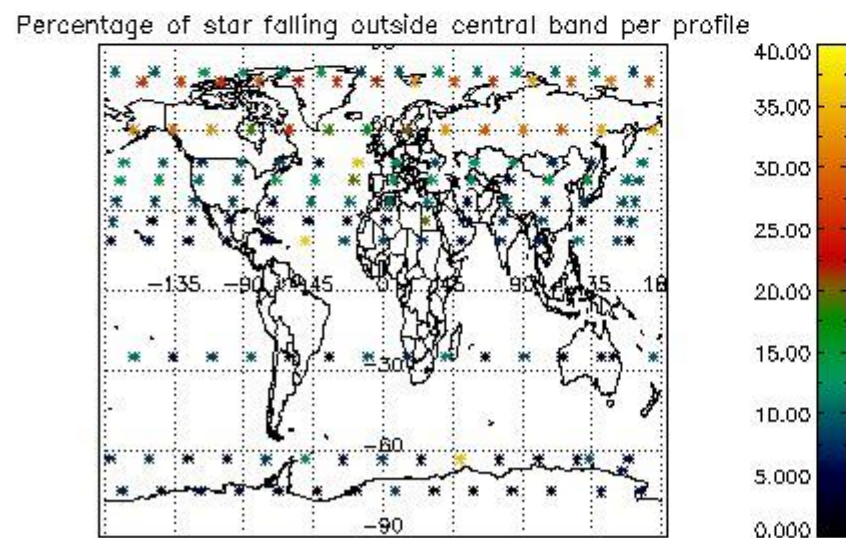
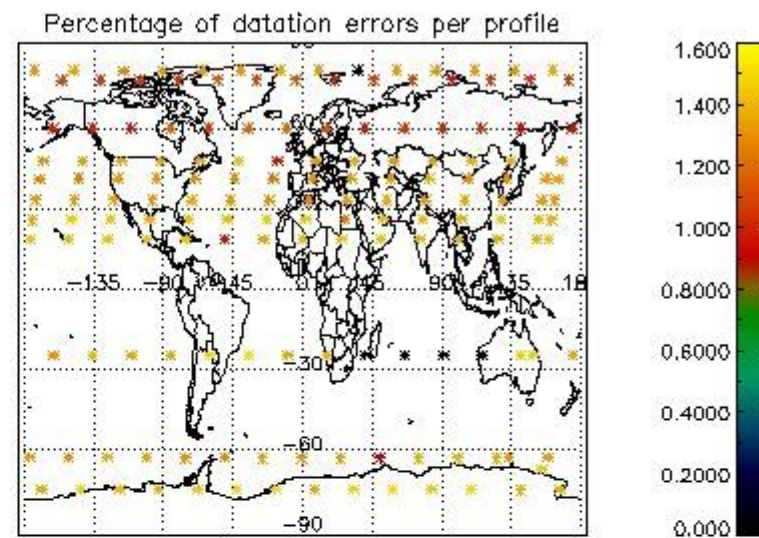
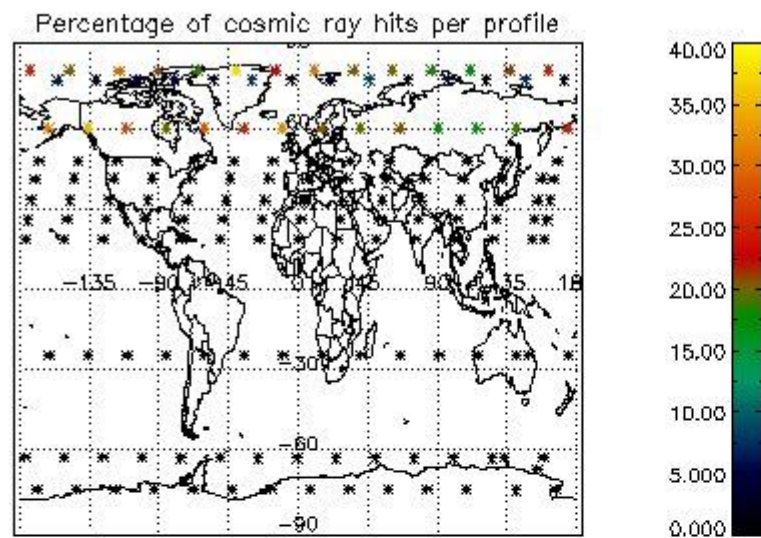
Percentage of star falling outside central band per profile



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

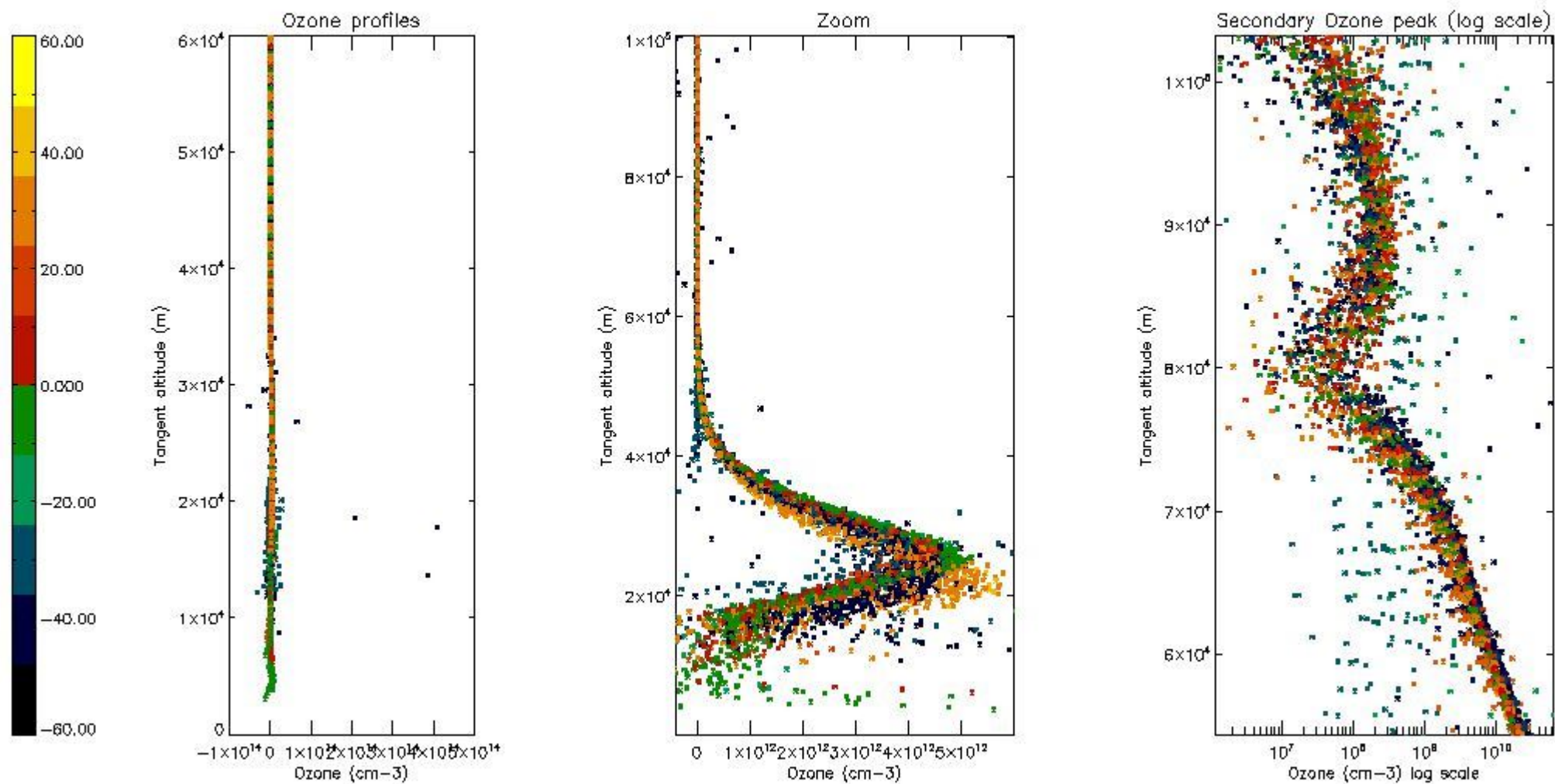
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	34
STD < 20	19

STD < 10	15
STD < 5	10

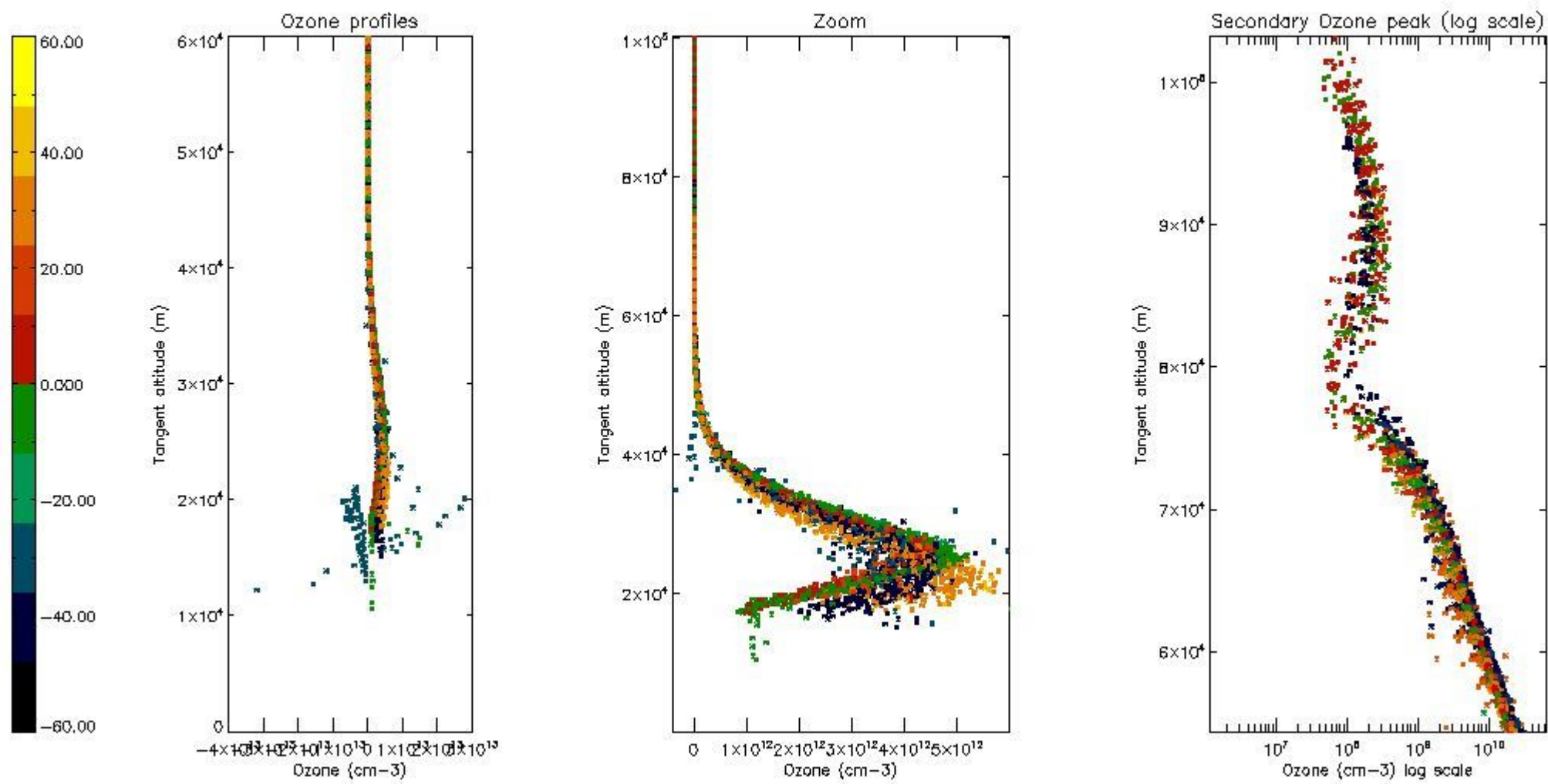
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



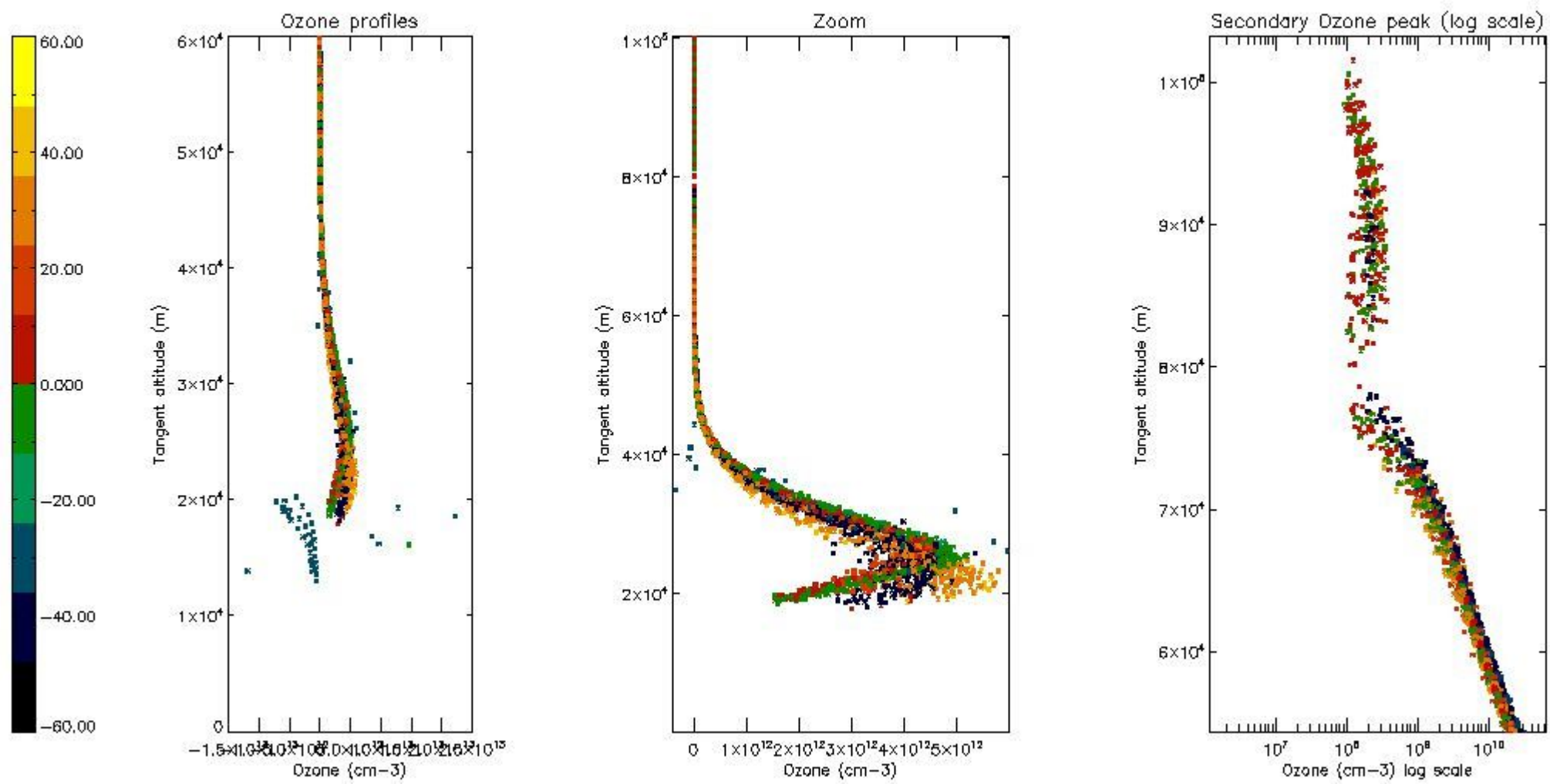
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



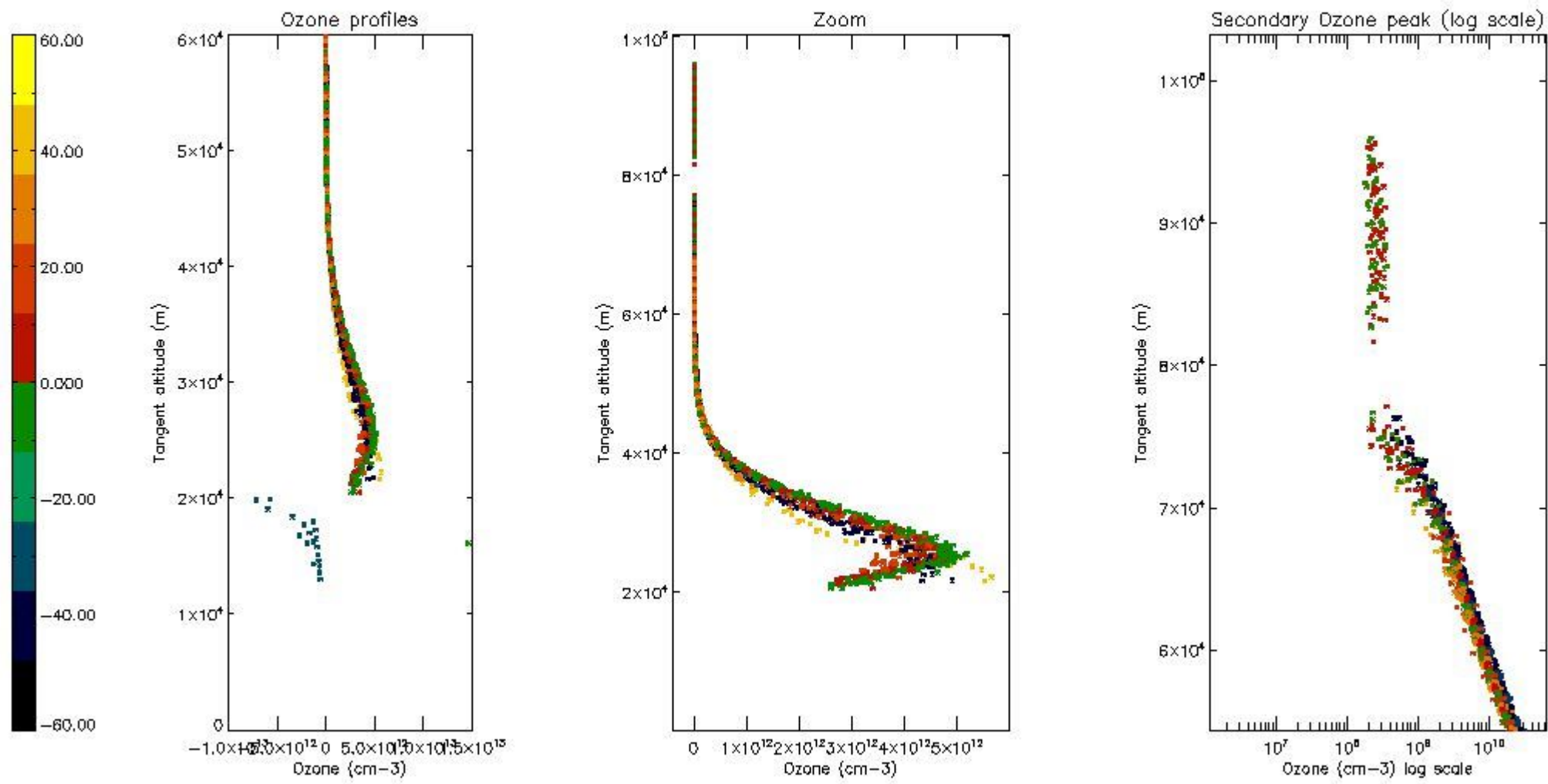
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



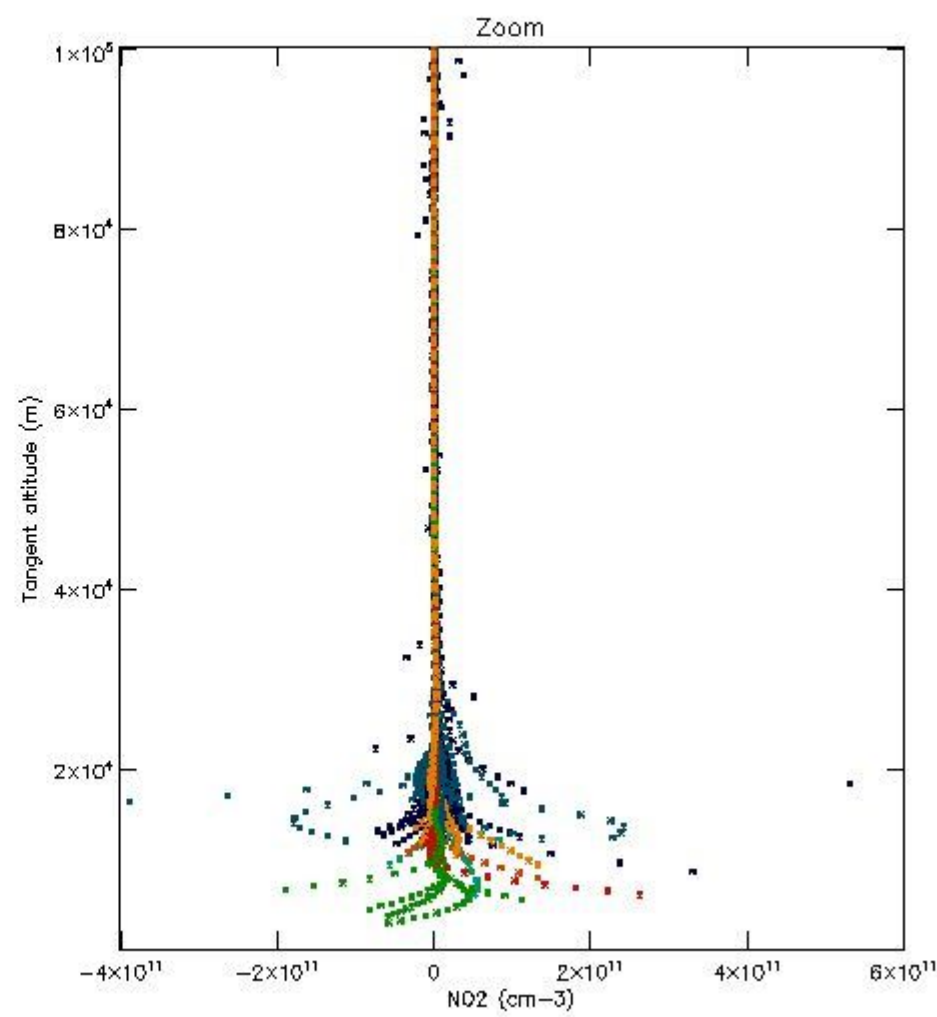
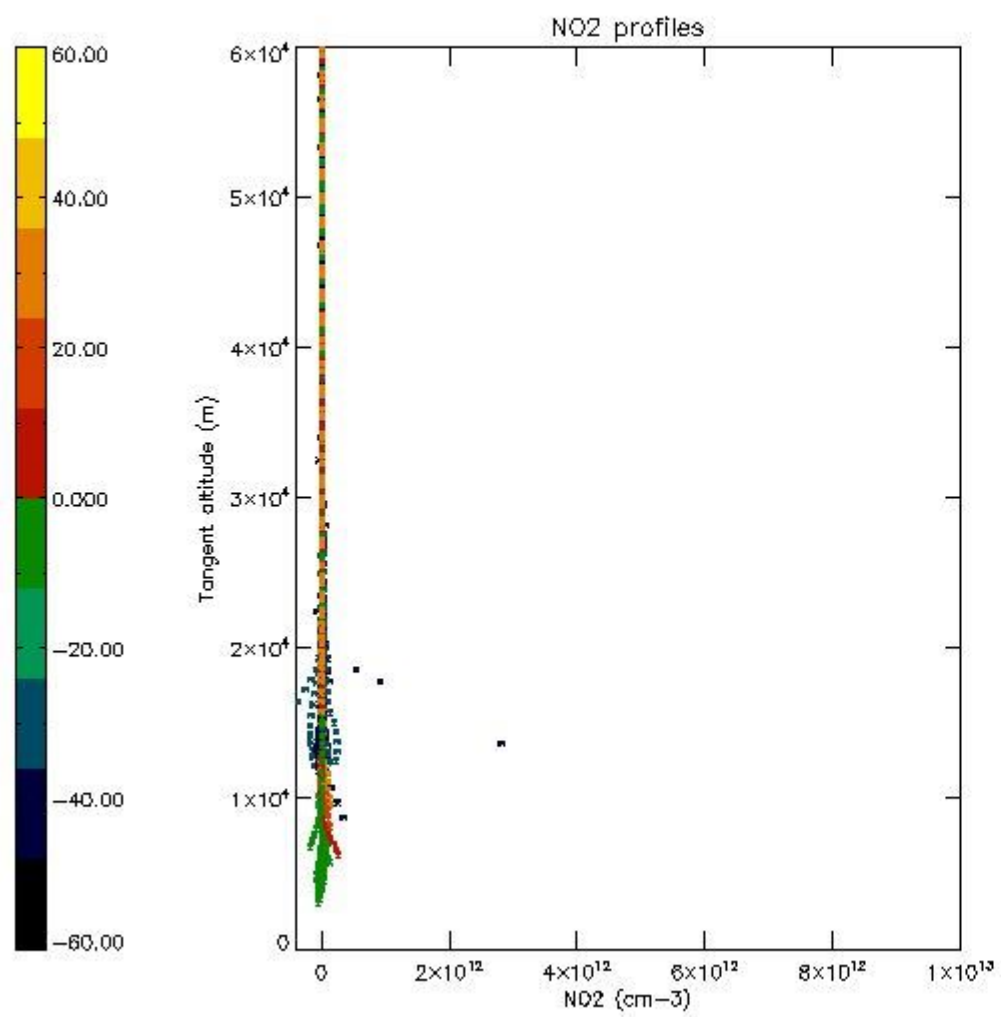
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



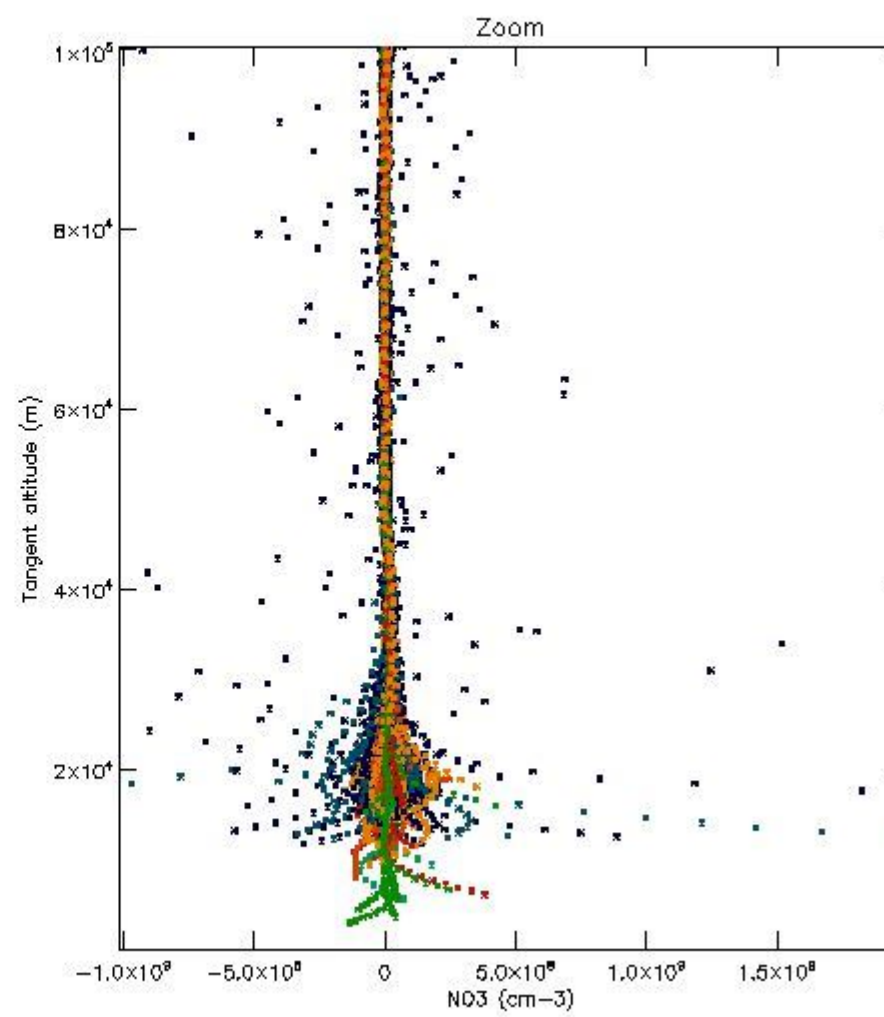
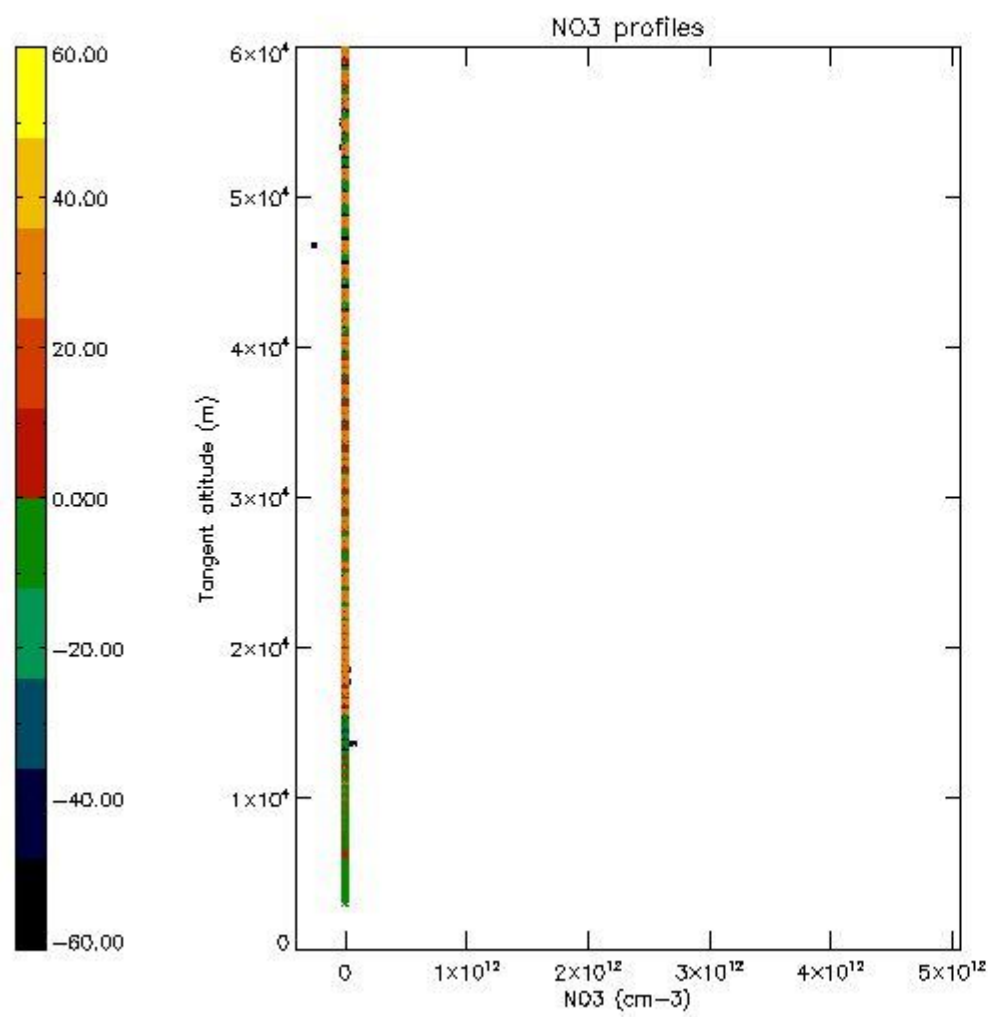
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



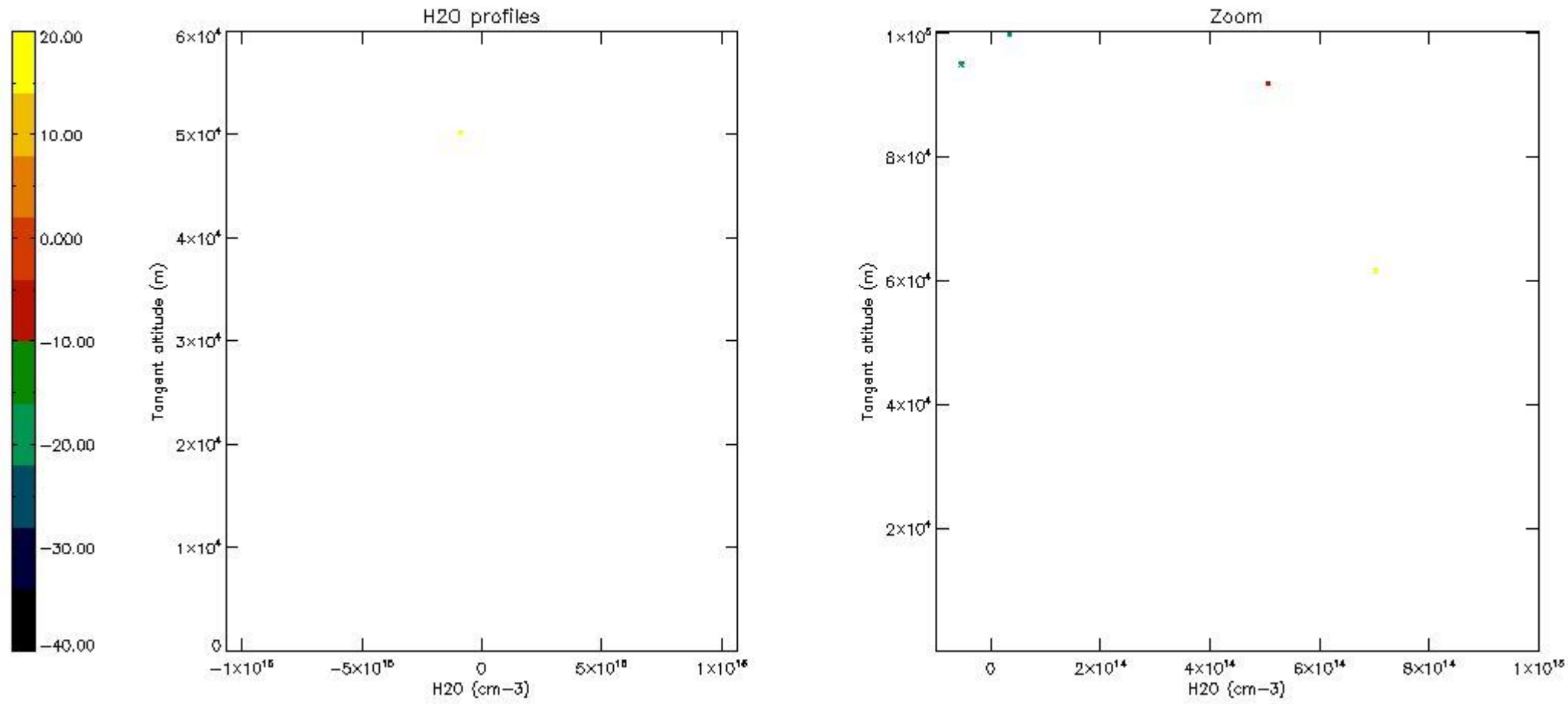
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

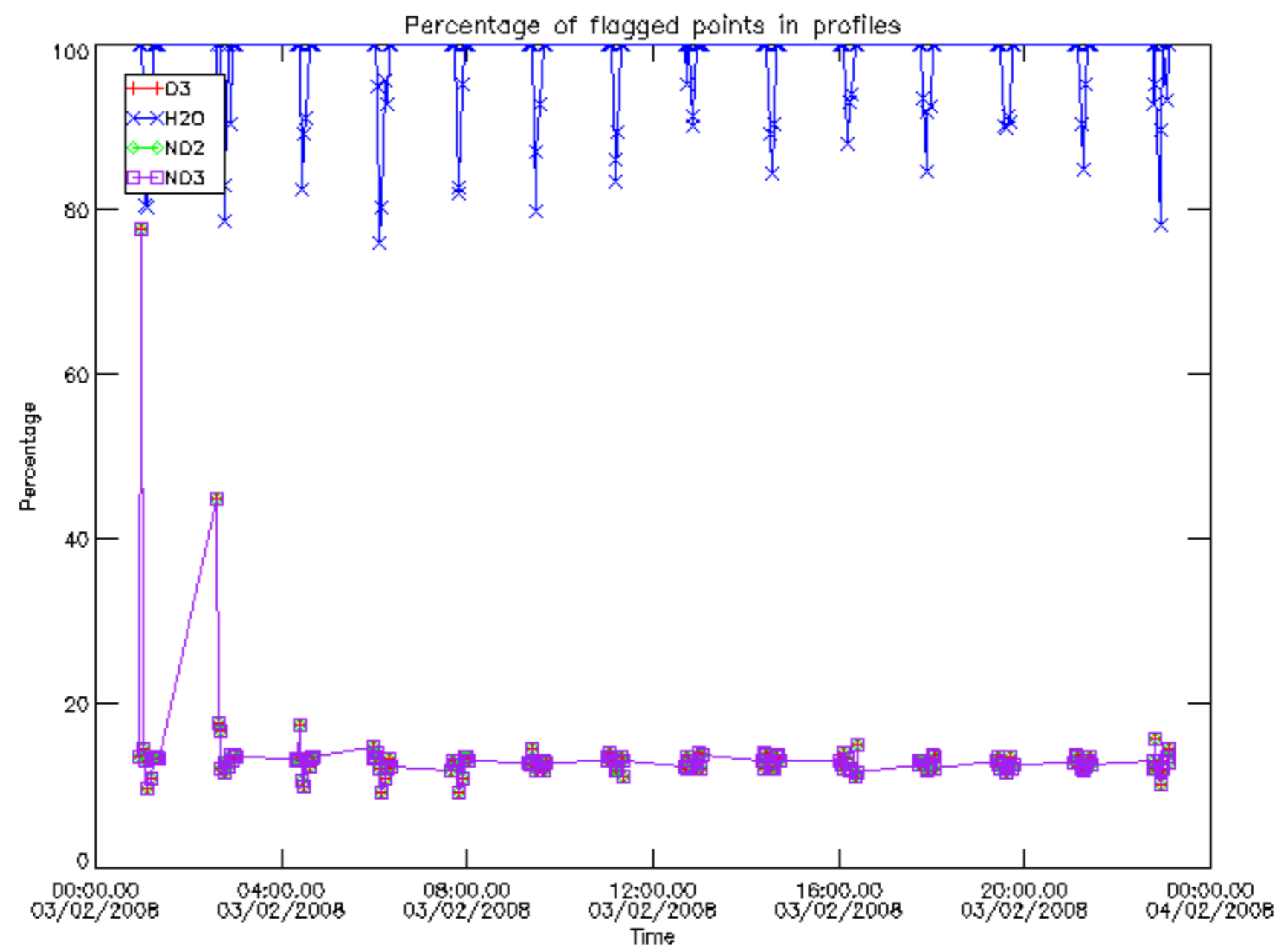
The colorbar represents the latitude.



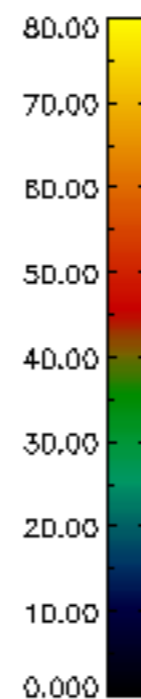
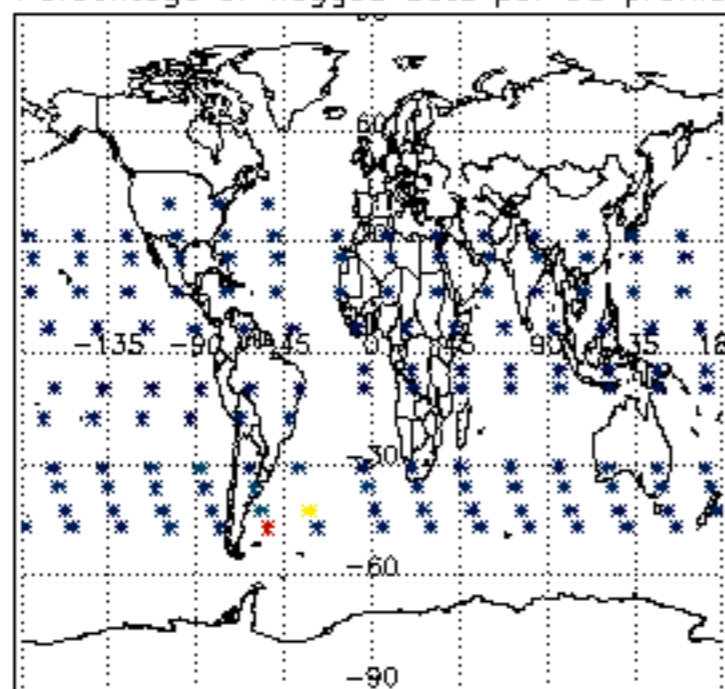
6. Auxiliary Data Files used for the production reported in section 2

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.

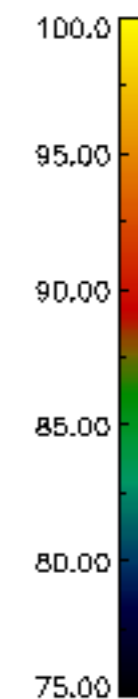
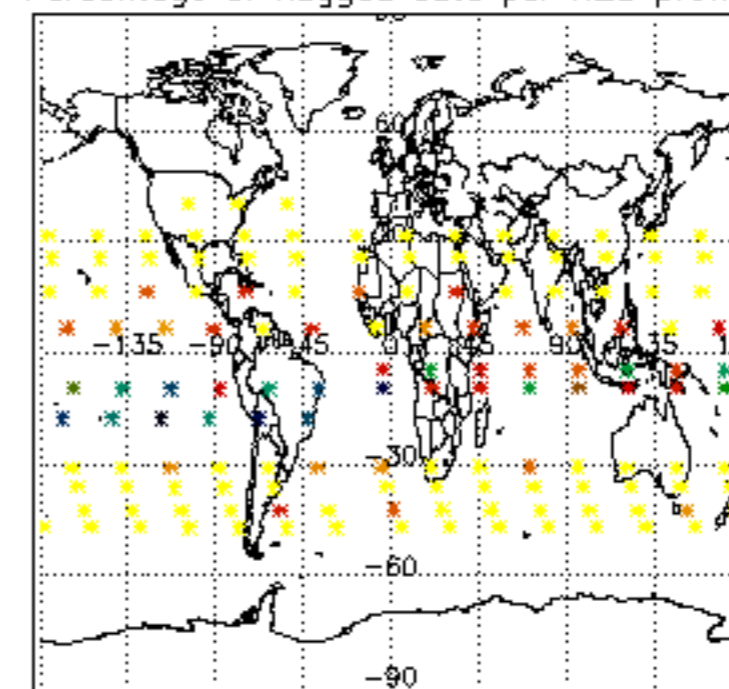
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	03-FEB-2008 00:01:25
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	03-FEB-2008 00:01:25
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	03-FEB-2008 00:01:25



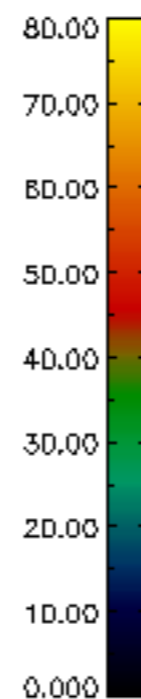
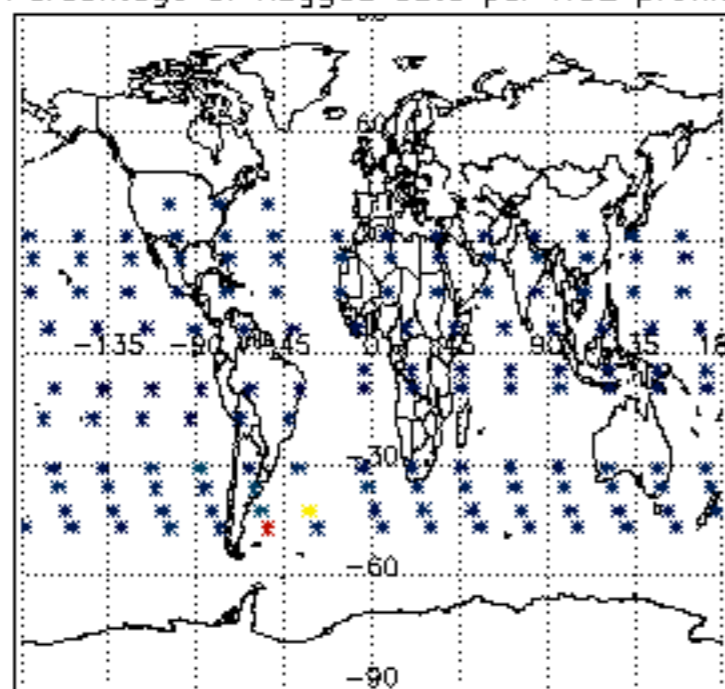
Percentage of flagged data per D3 profile



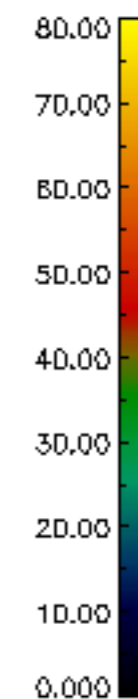
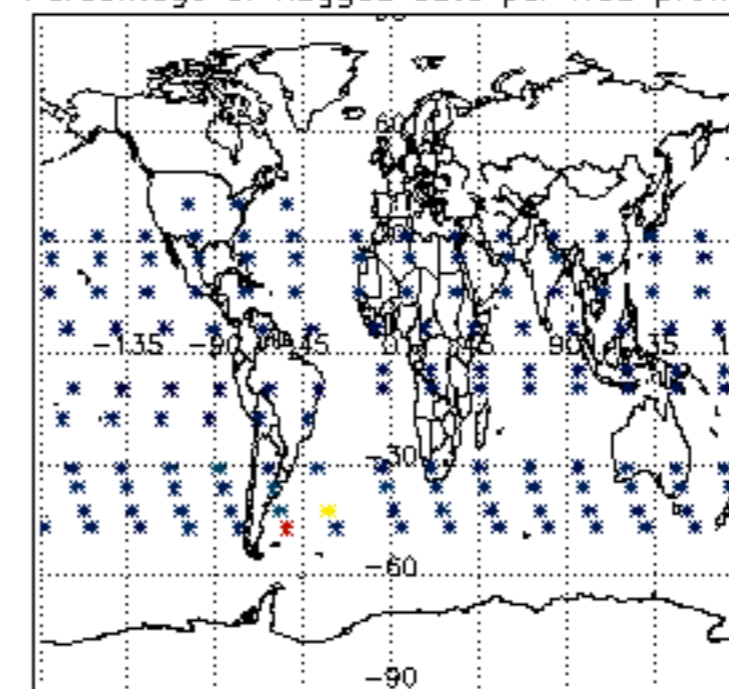
Percentage of flagged data per H2O profile

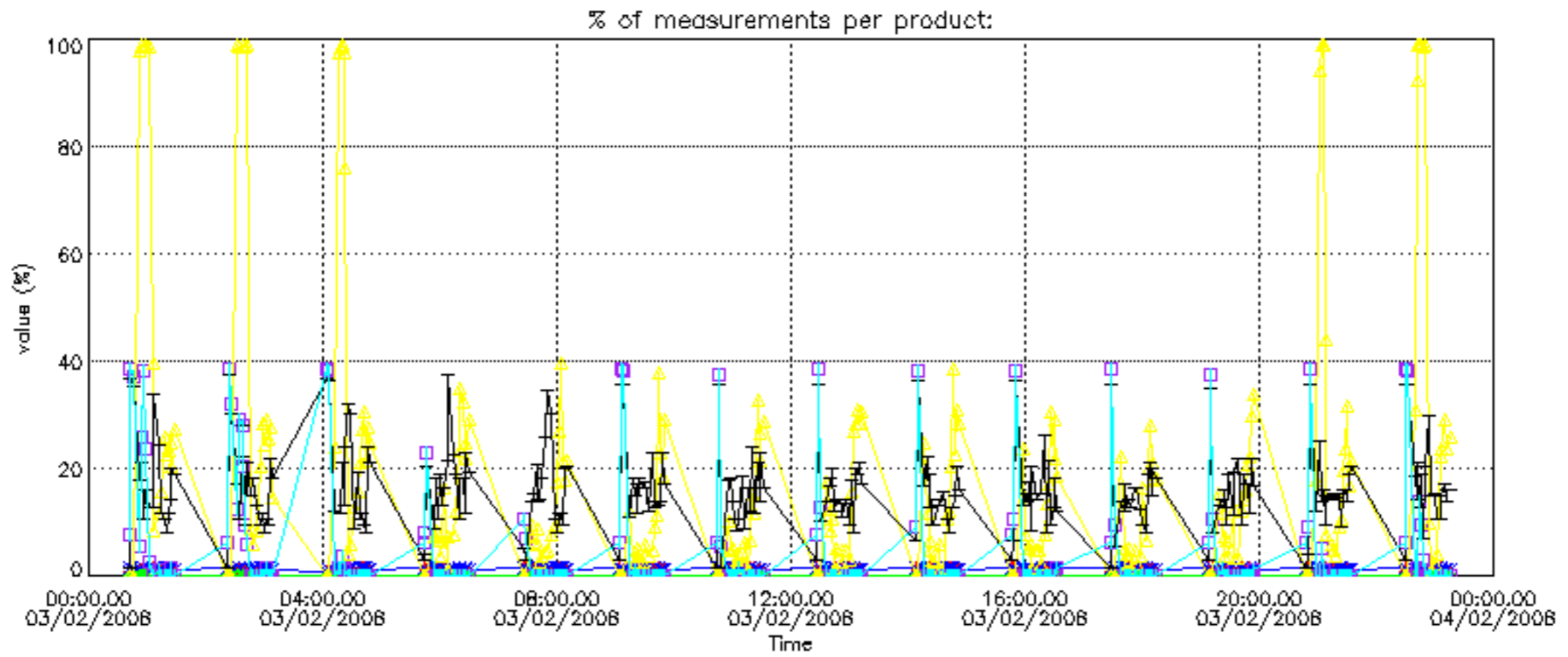


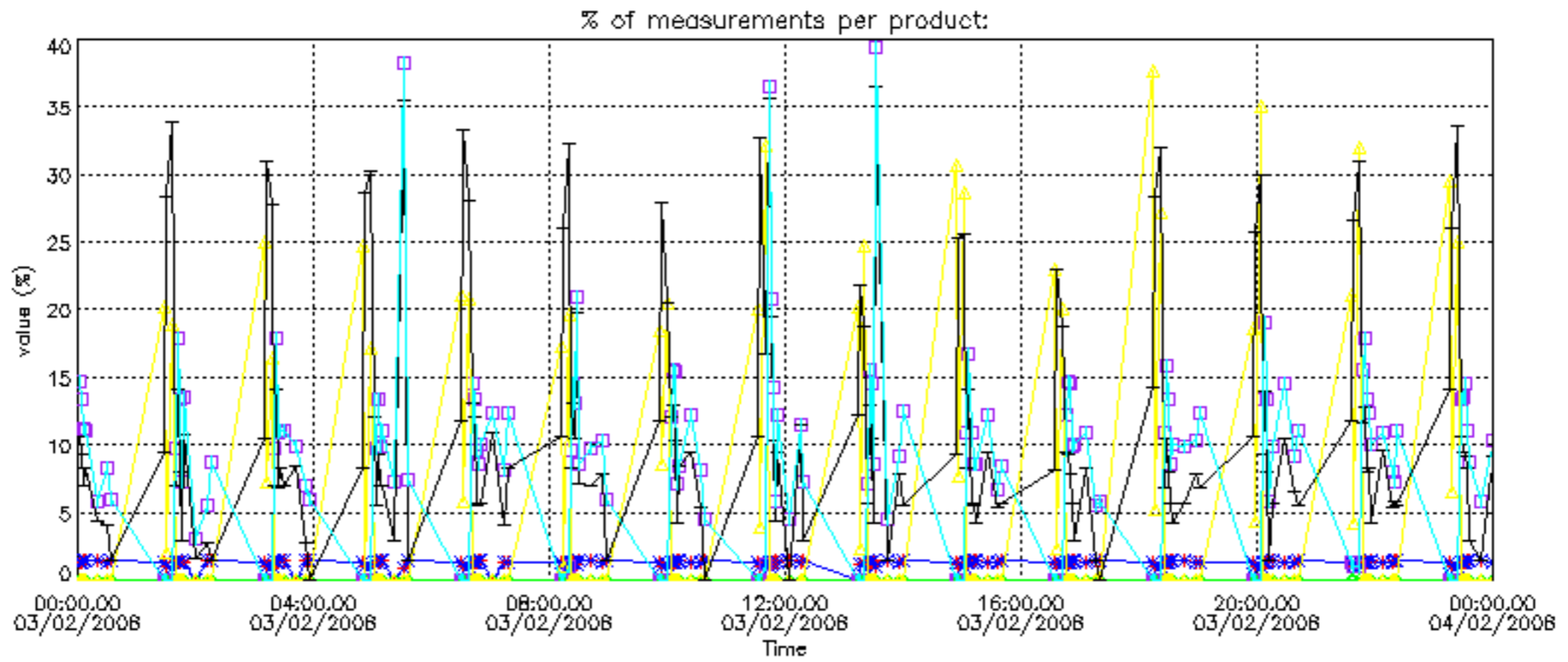
Percentage of flagged data per NO2 profile



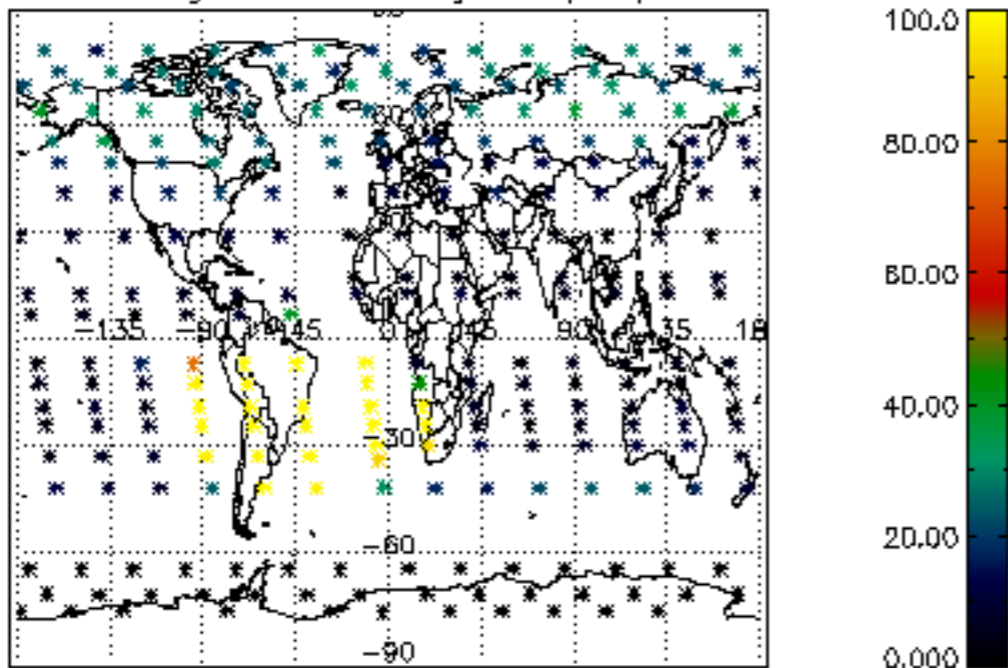
Percentage of flagged data per NO3 profile



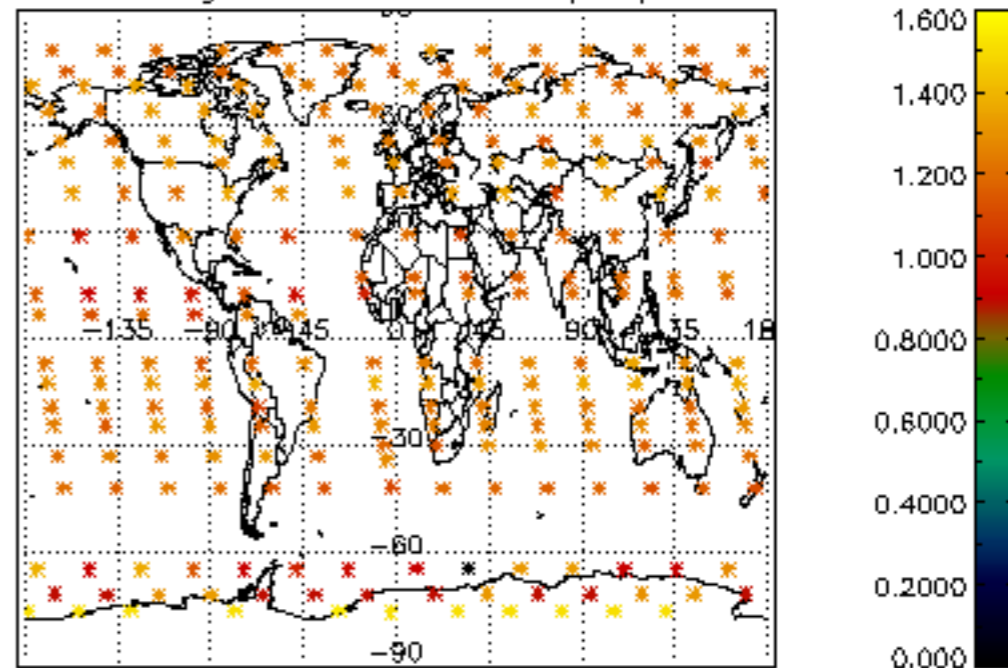




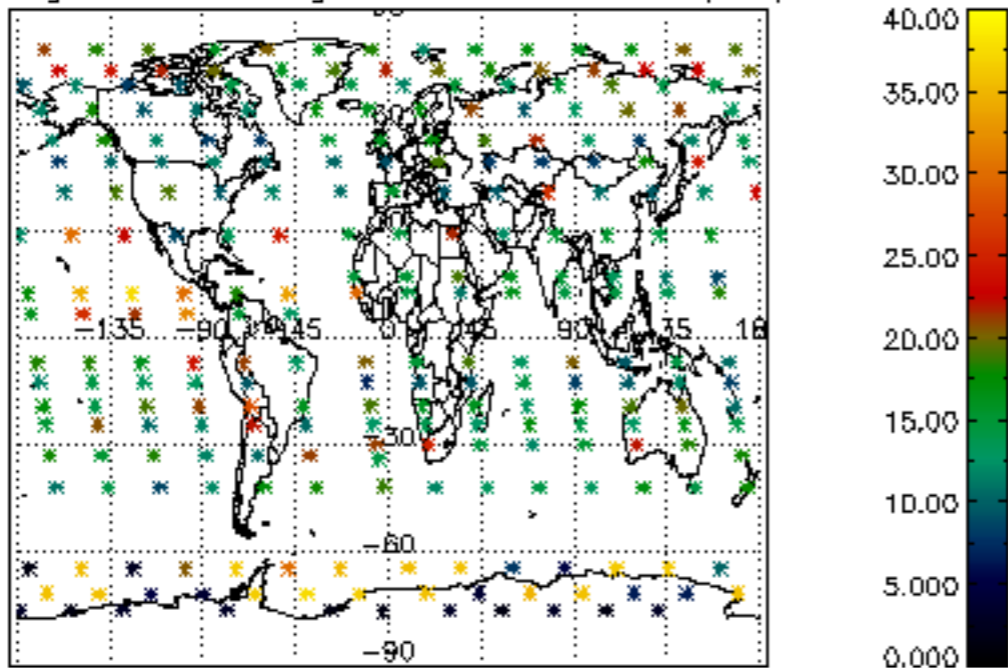
Percentage of cosmic ray hits per profile



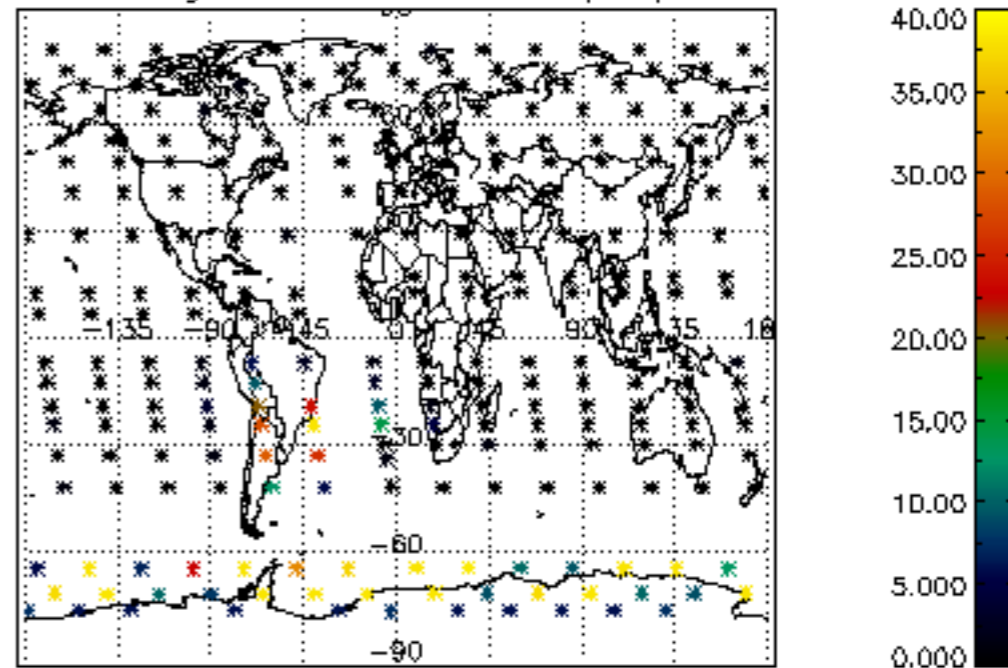
Percentage of datation errors per profile



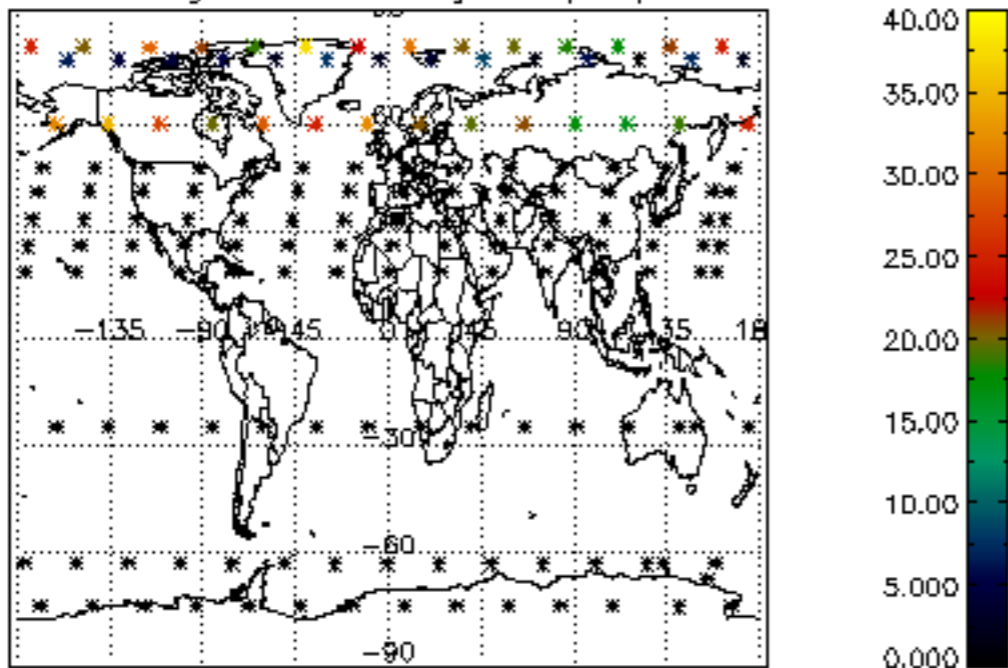
Percentage of star falling outside central band per profile



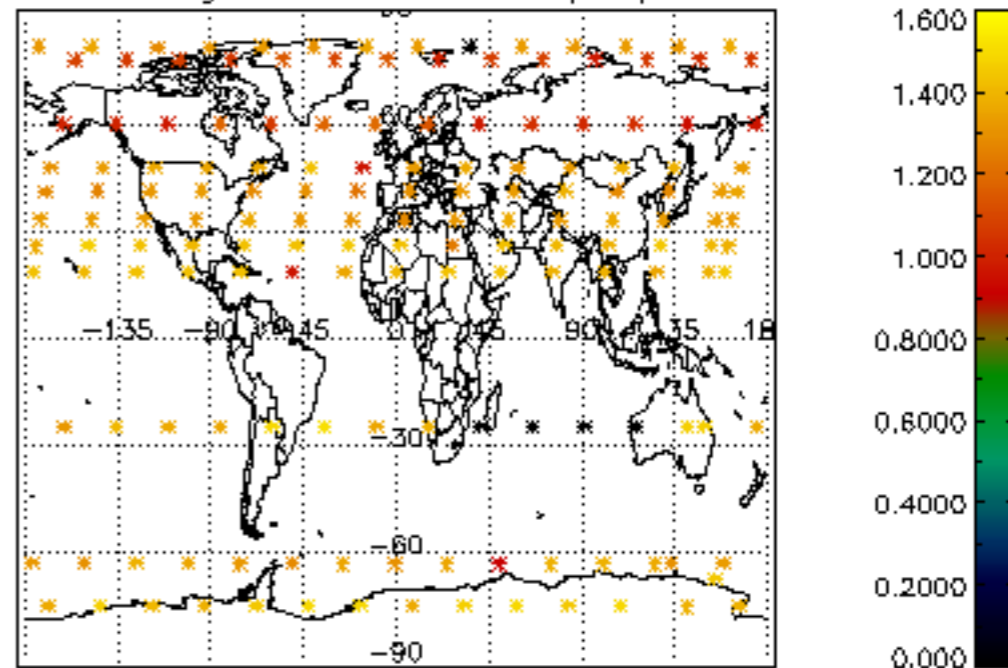
Percentage of saturation errors per profile



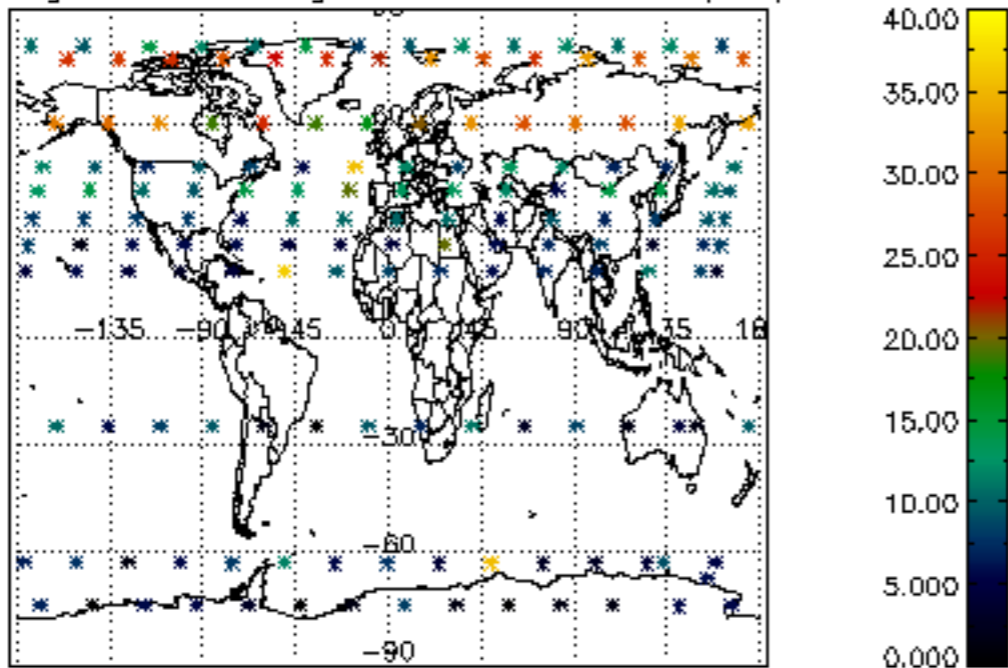
Percentage of cosmic ray hits per profile



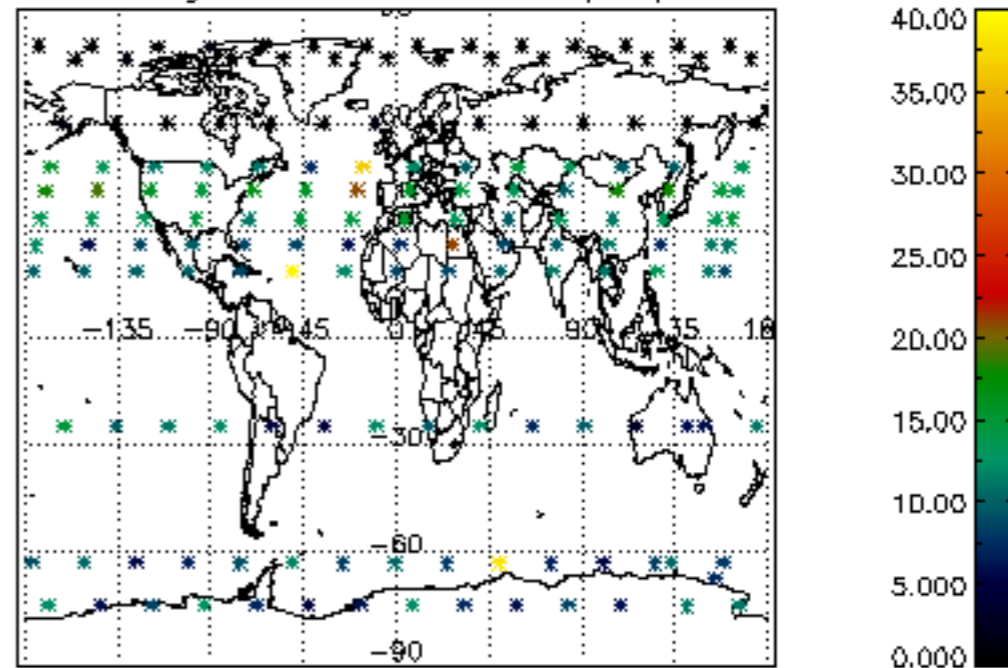
Percentage of datation errors per profile

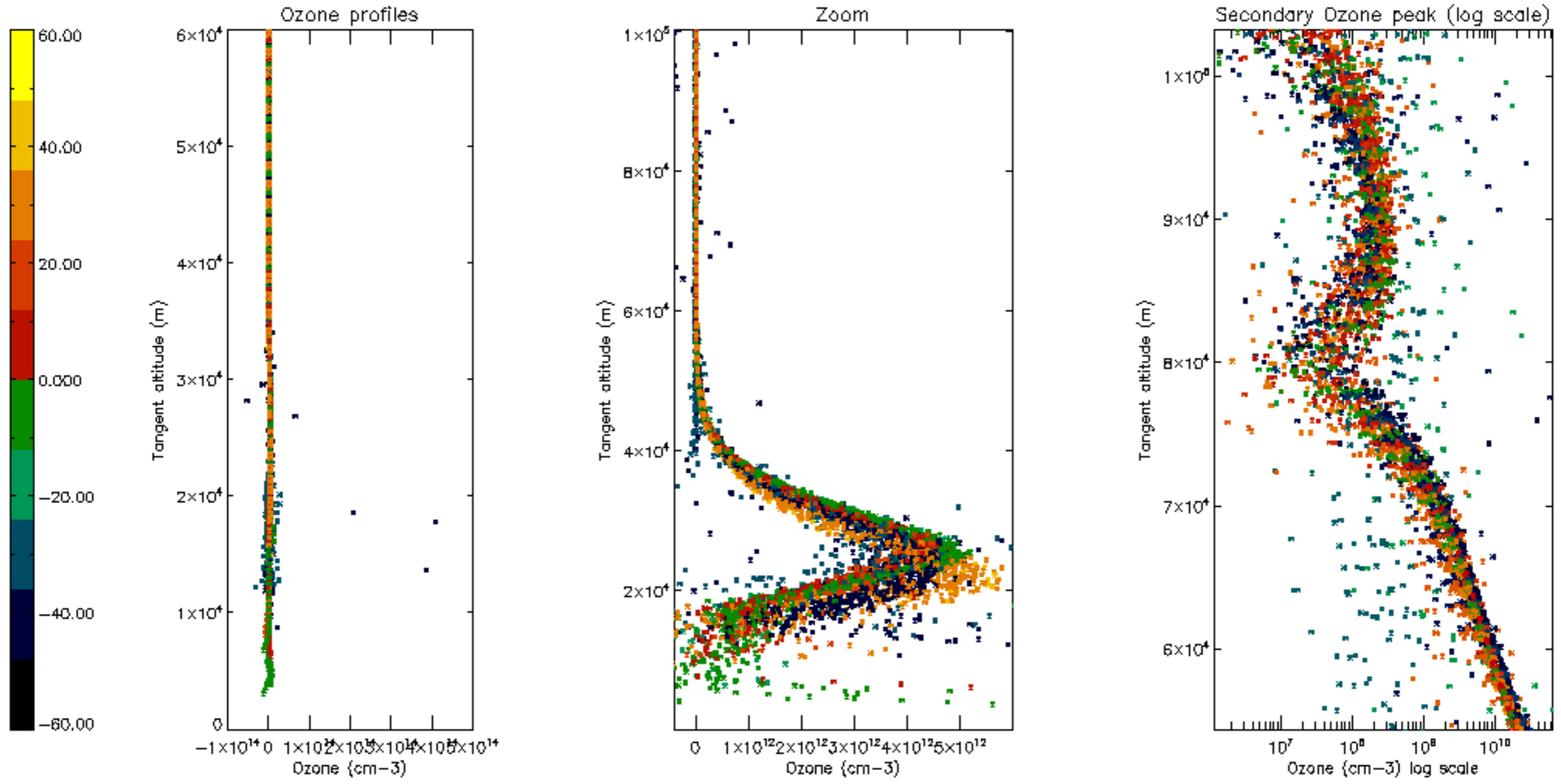


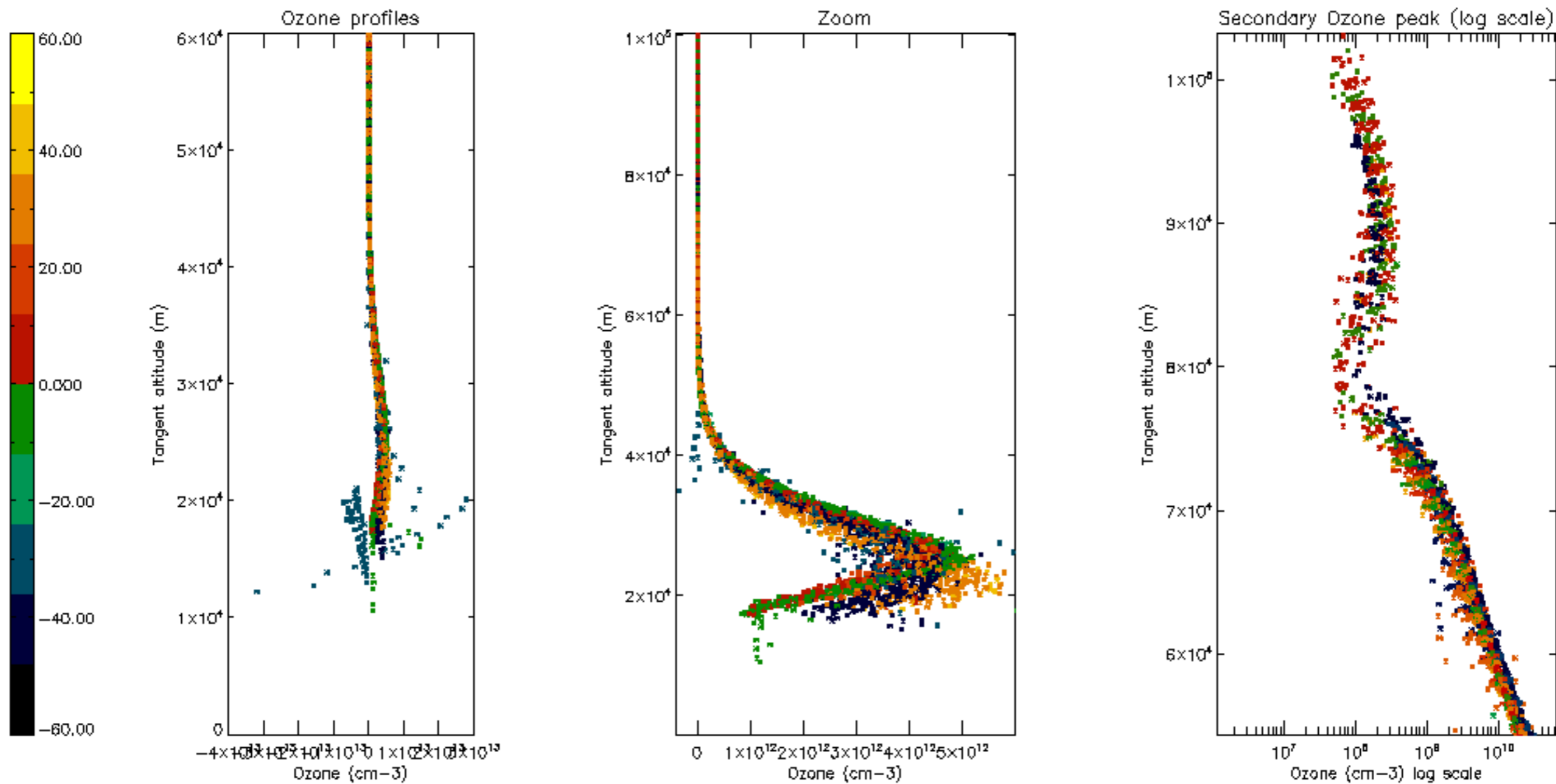
Percentage of star falling outside central band per profile

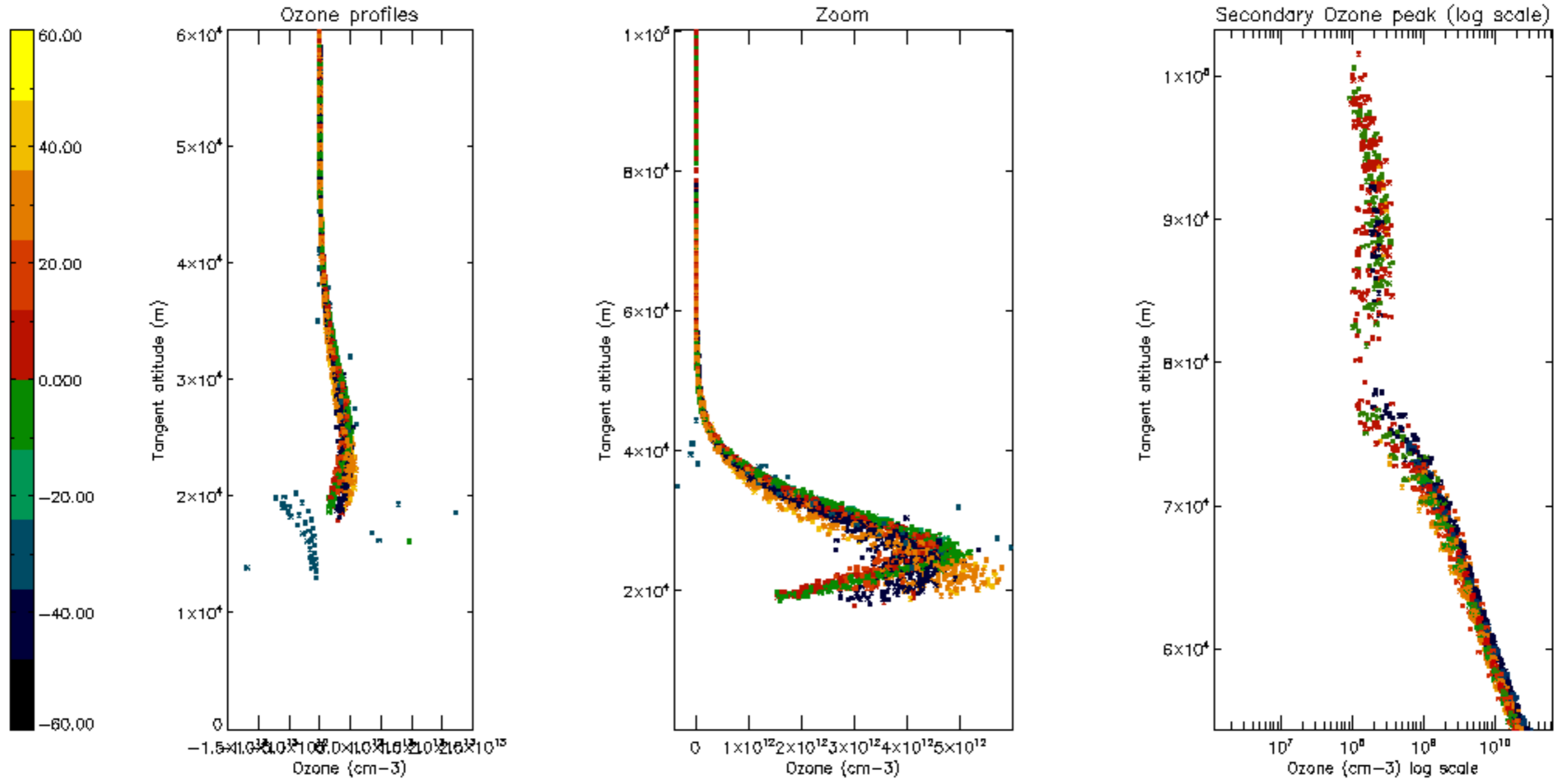


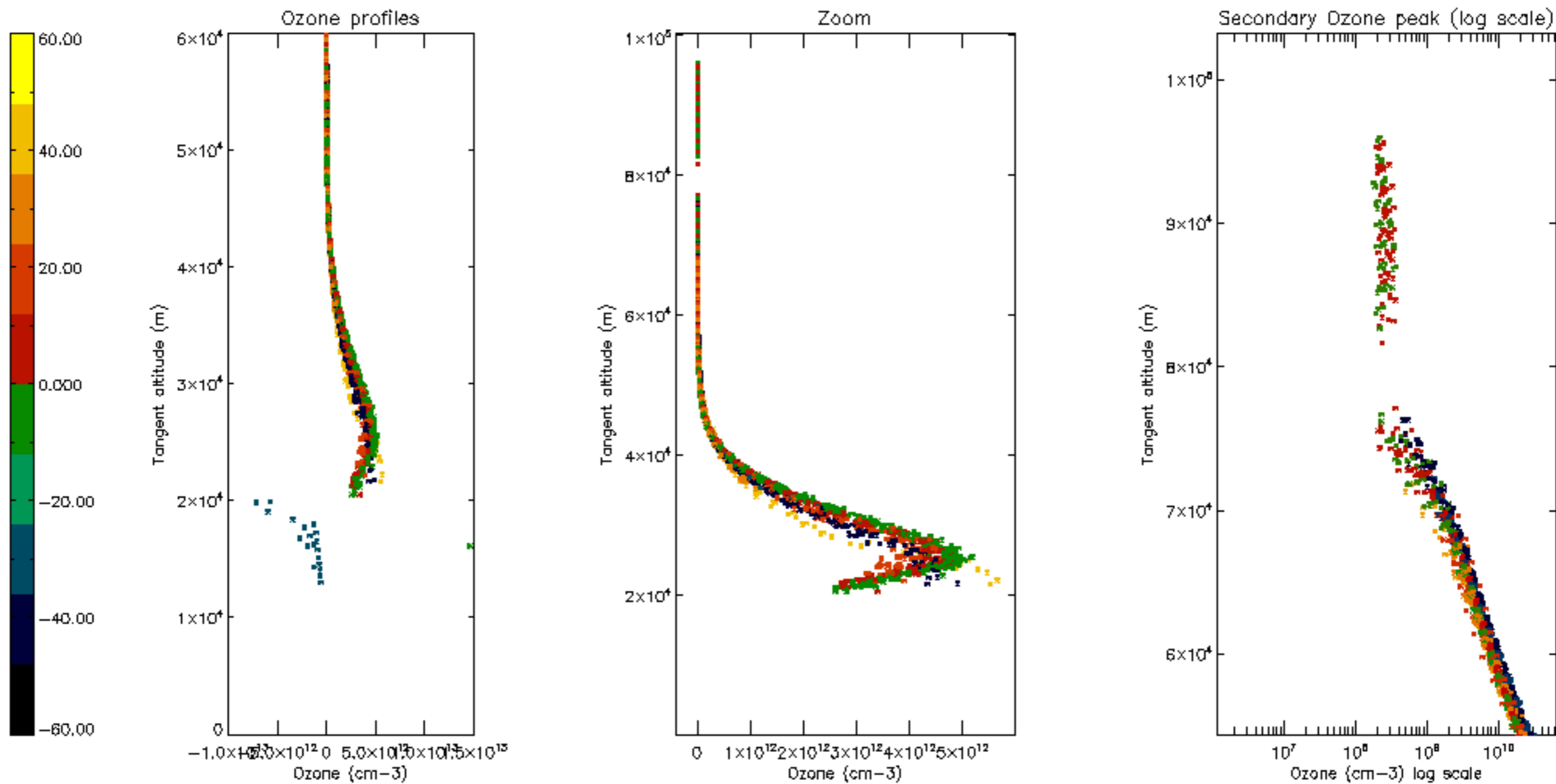
Percentage of saturation errors per profile

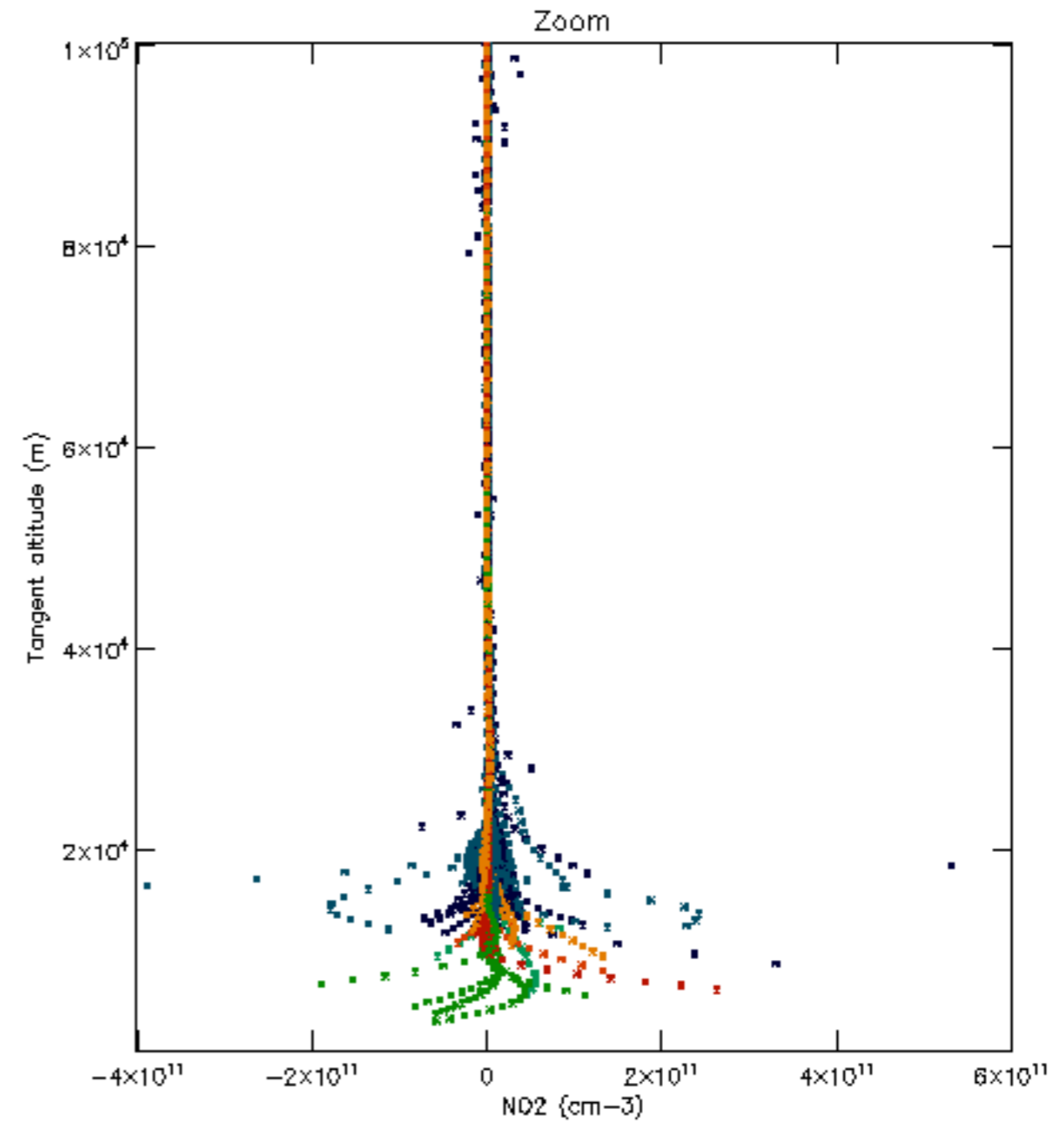
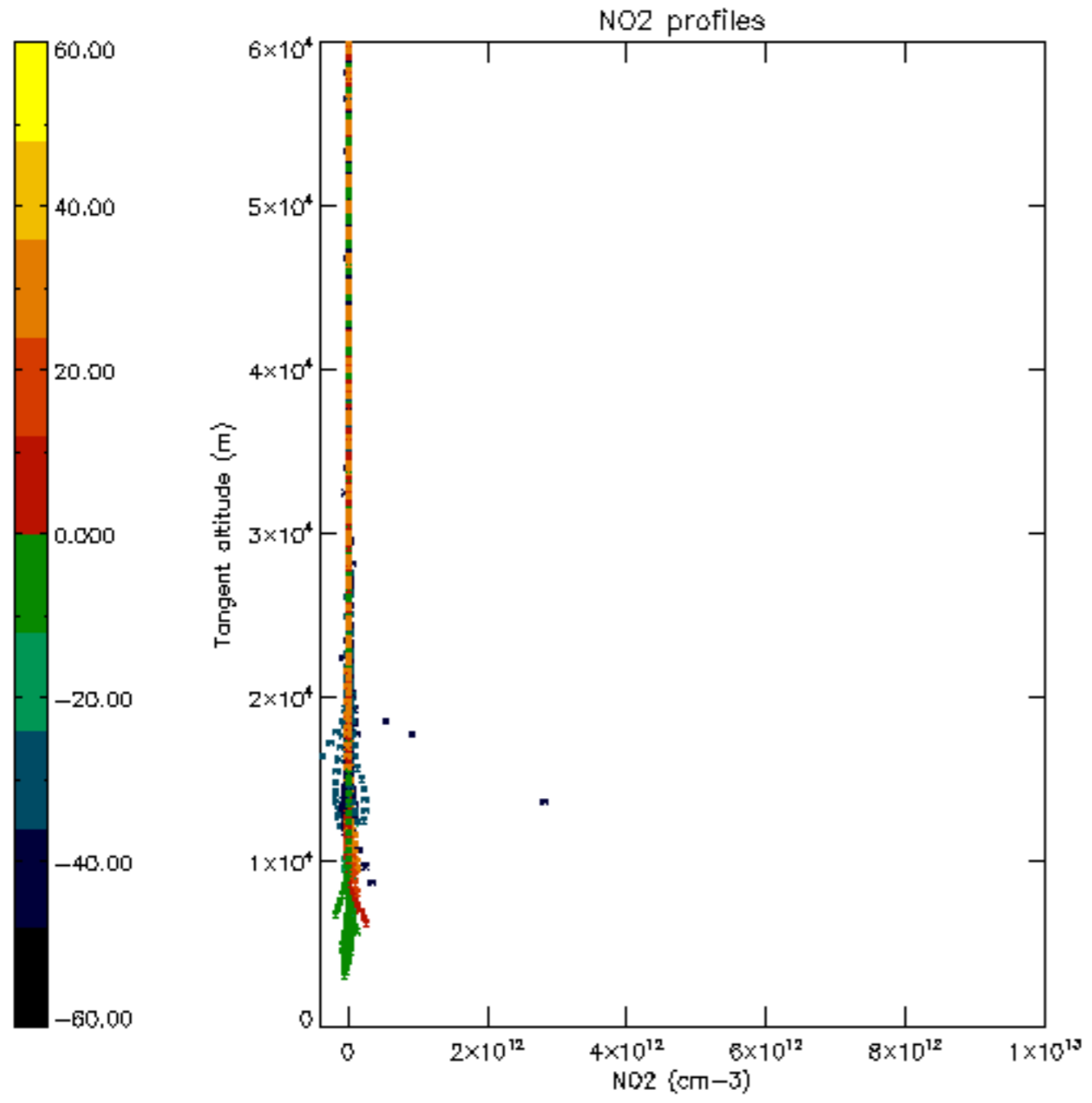


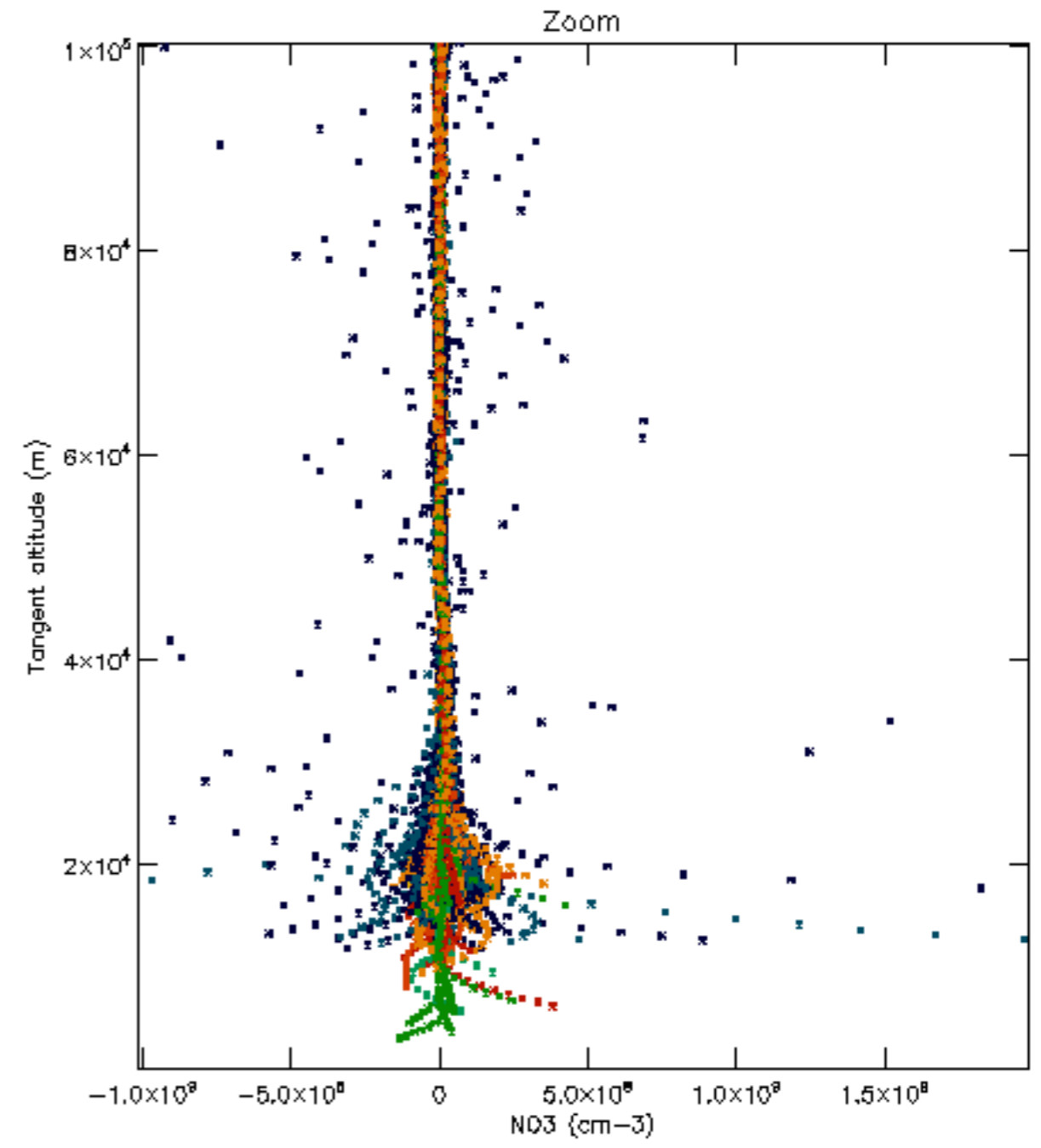
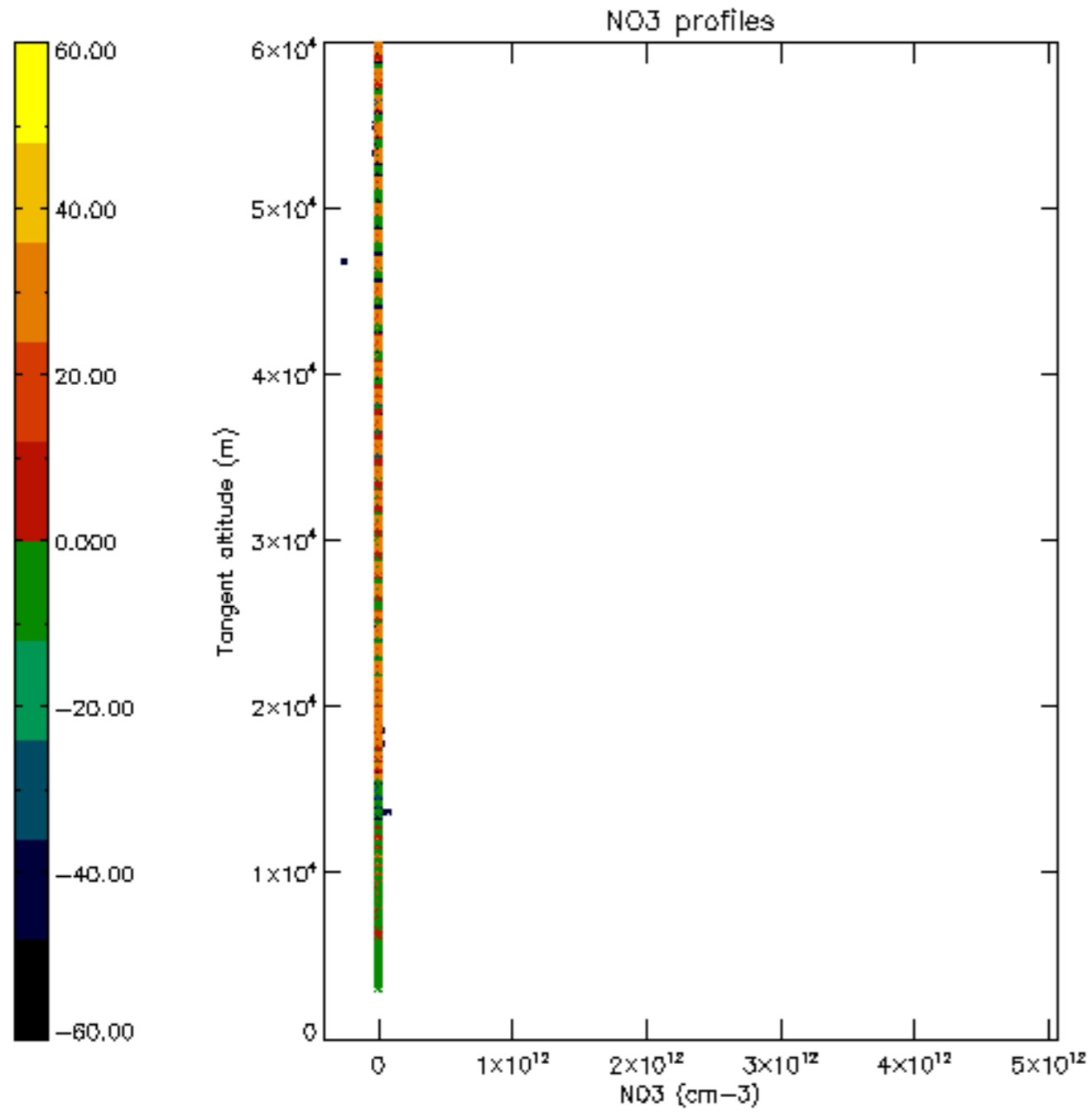


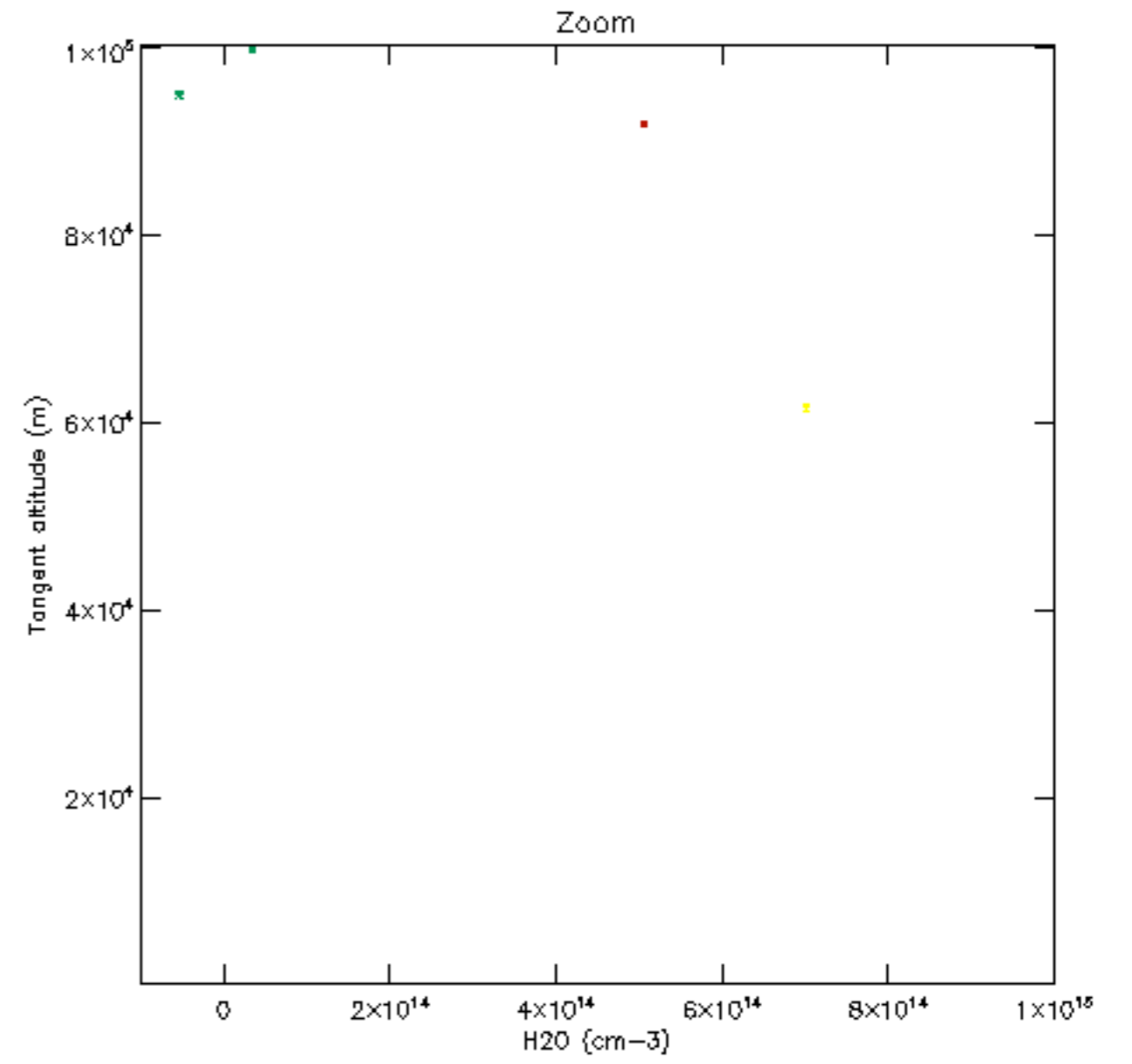
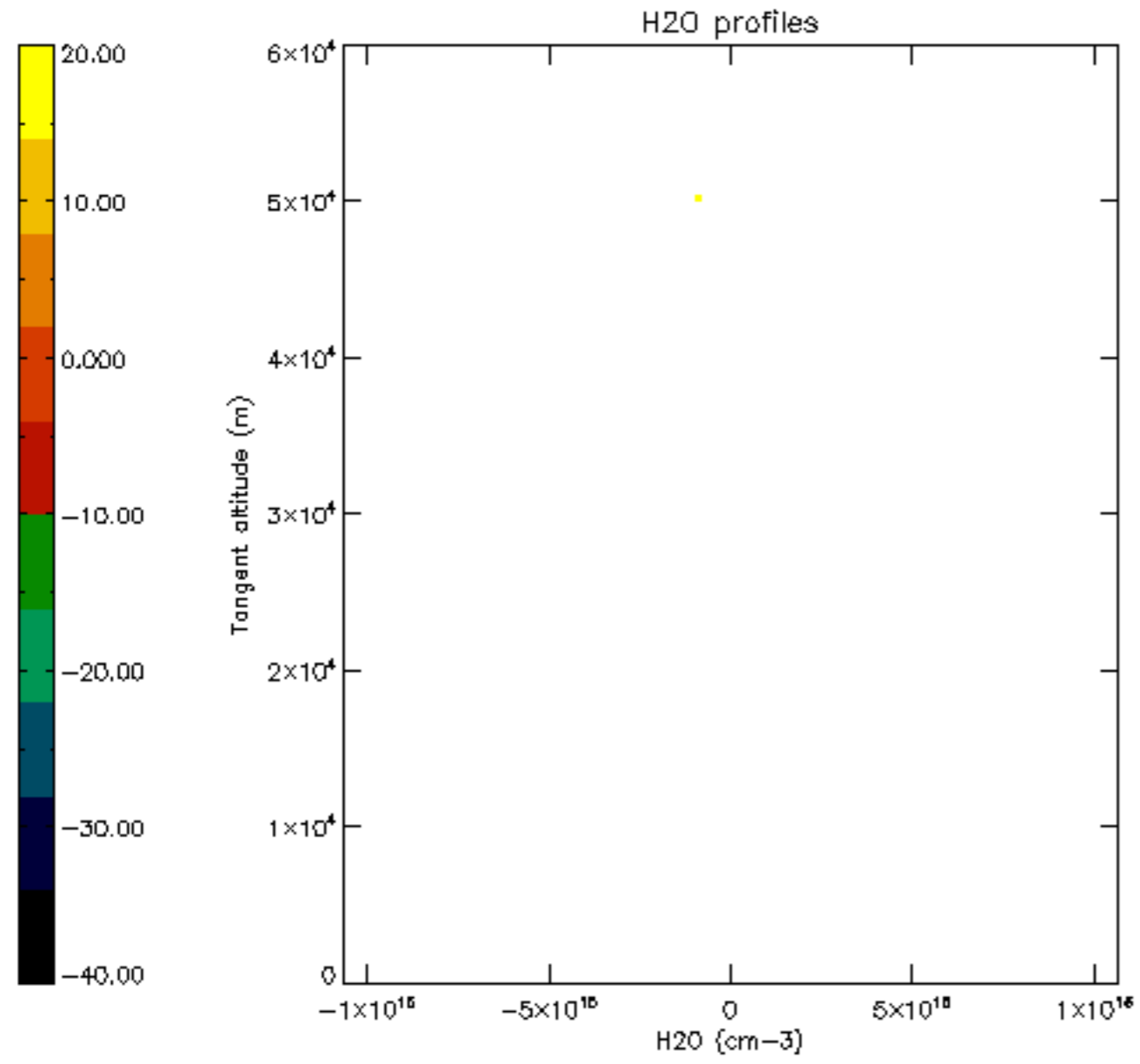


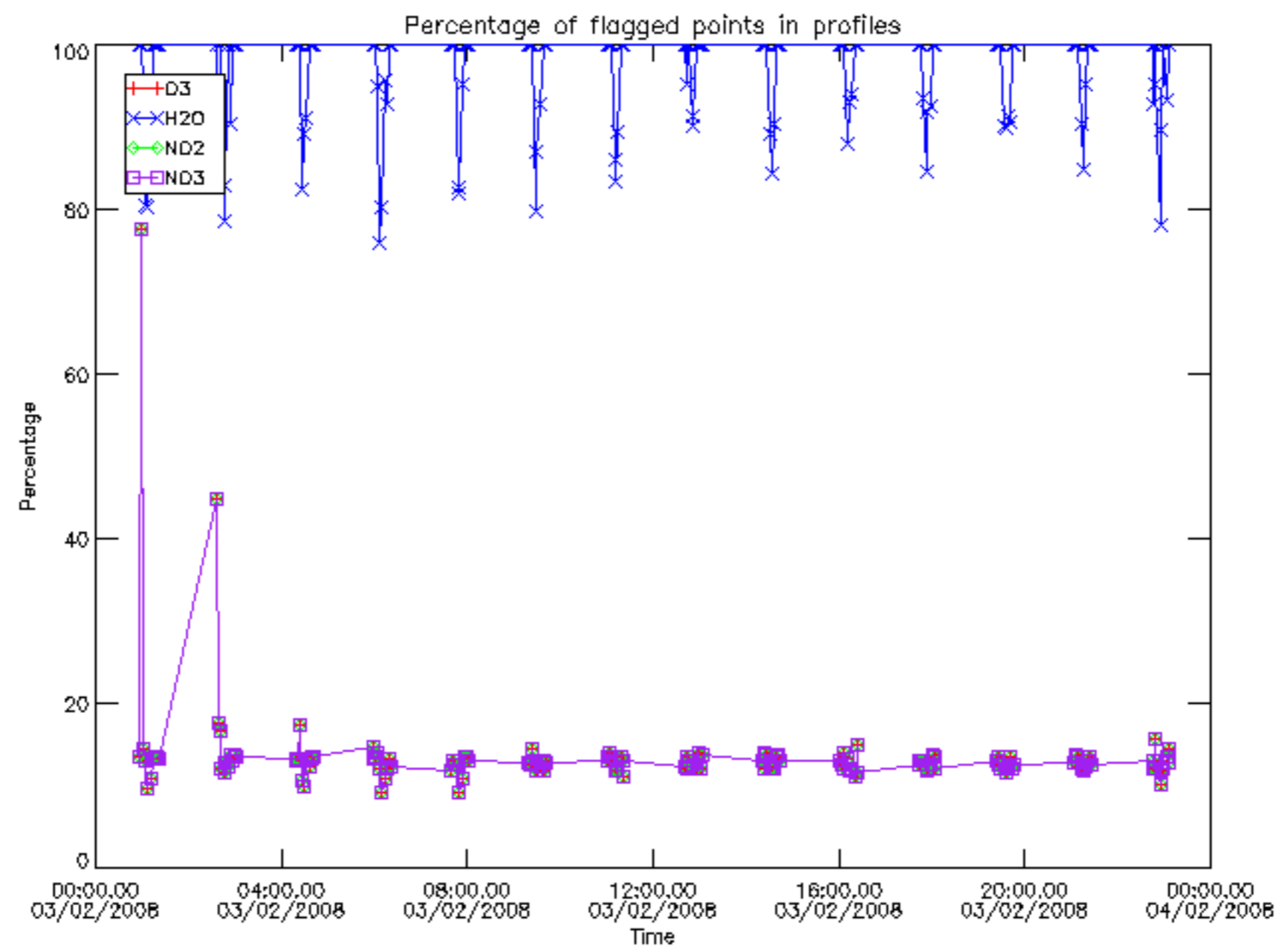




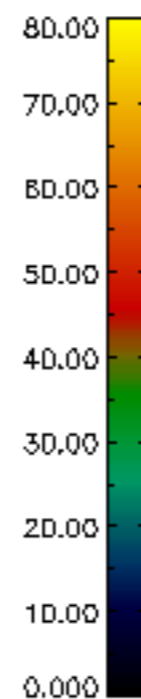
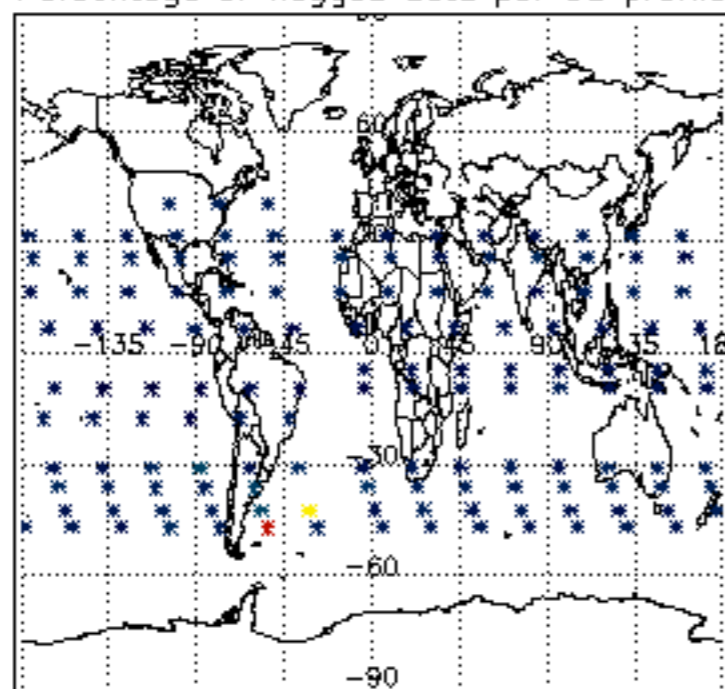




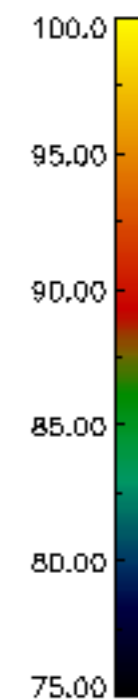
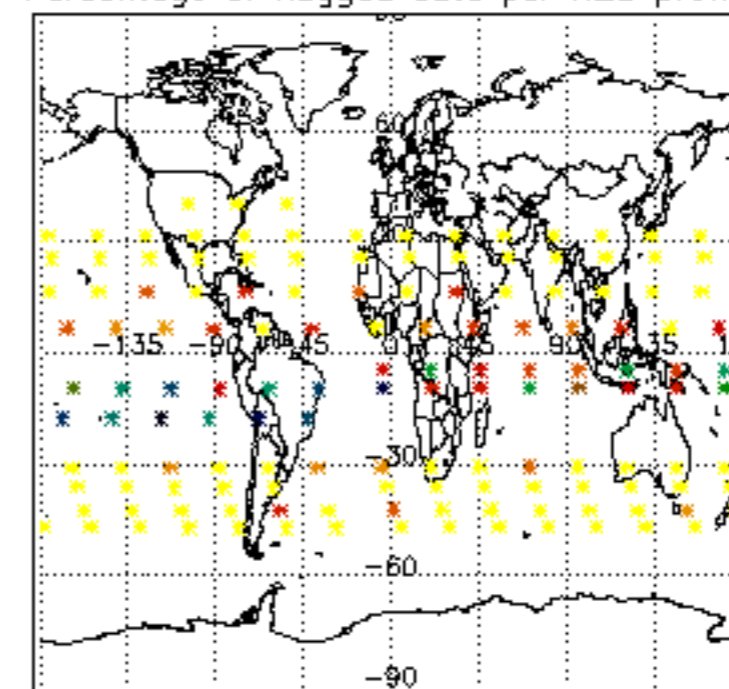




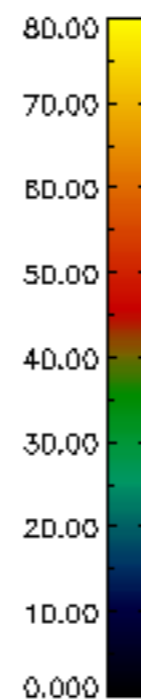
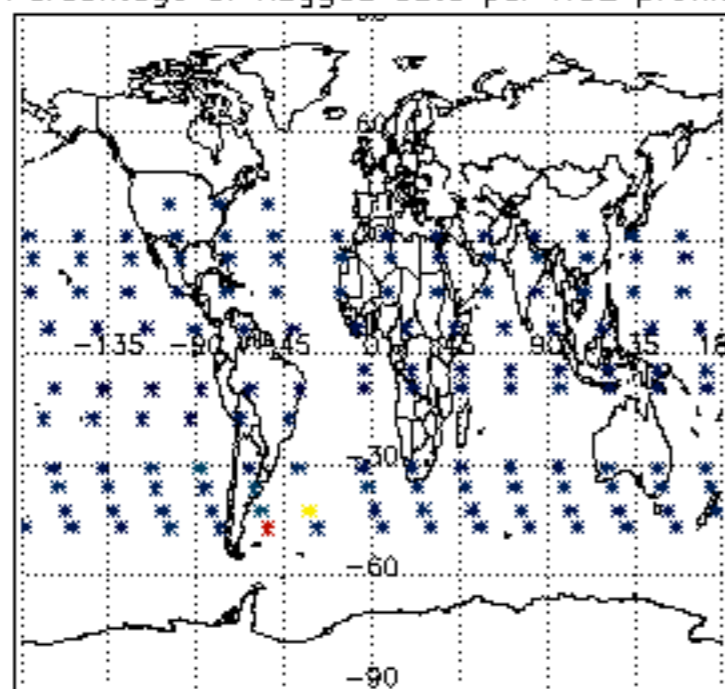
Percentage of flagged data per D3 profile



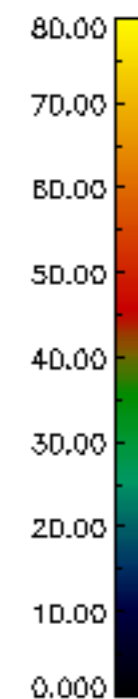
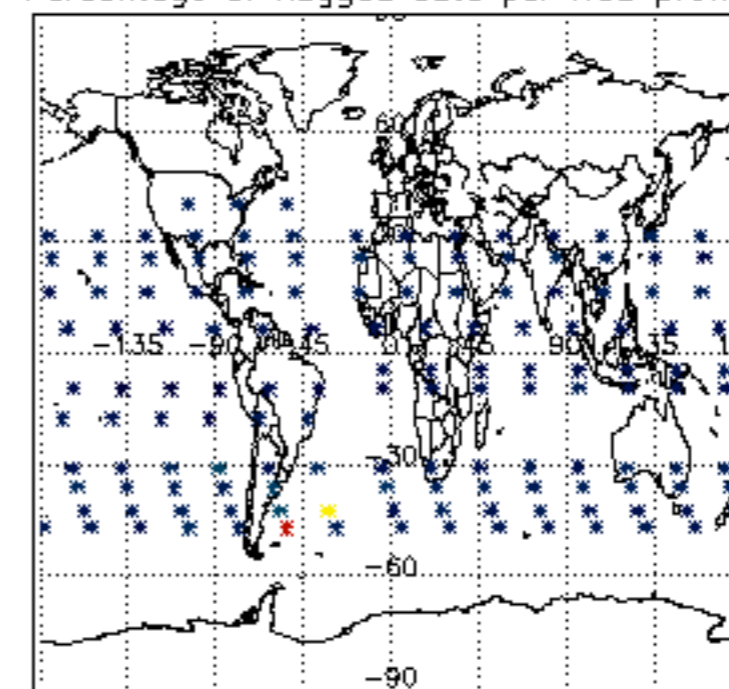
Percentage of flagged data per H2O profile

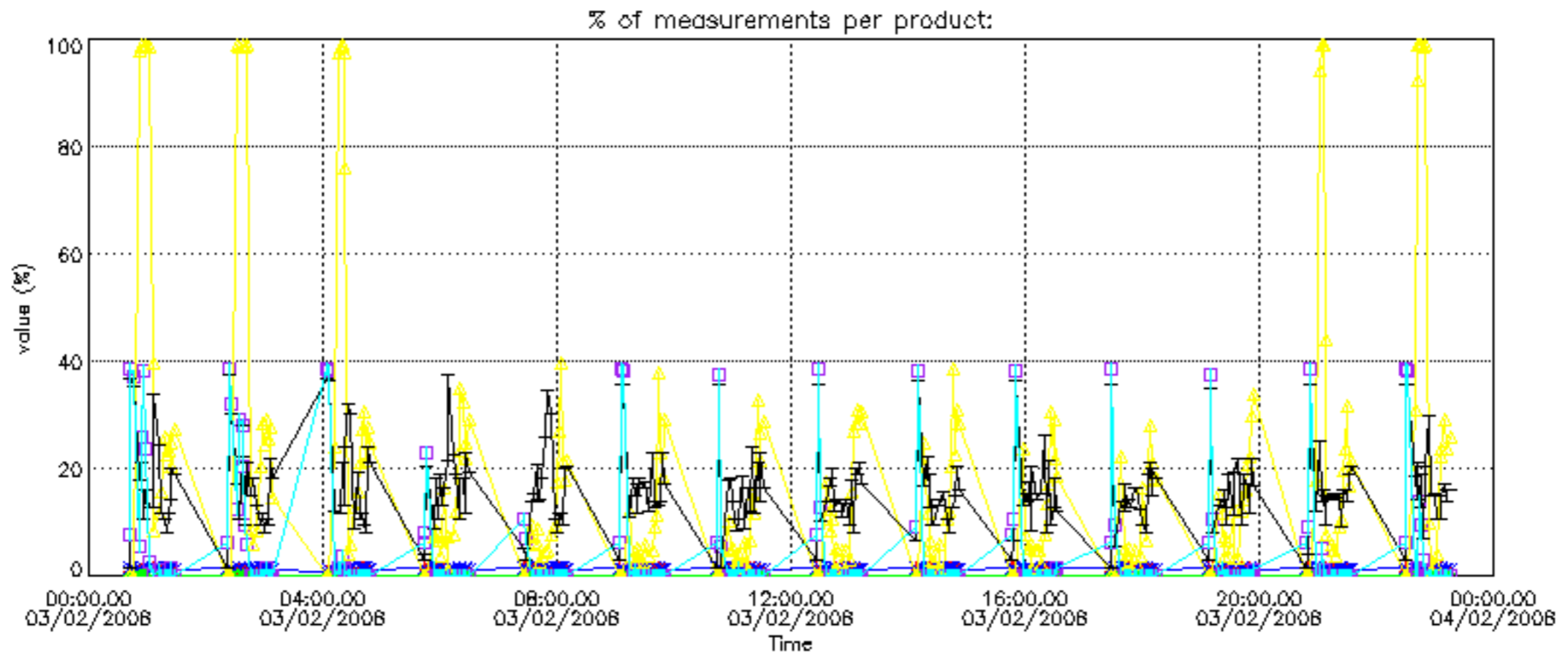


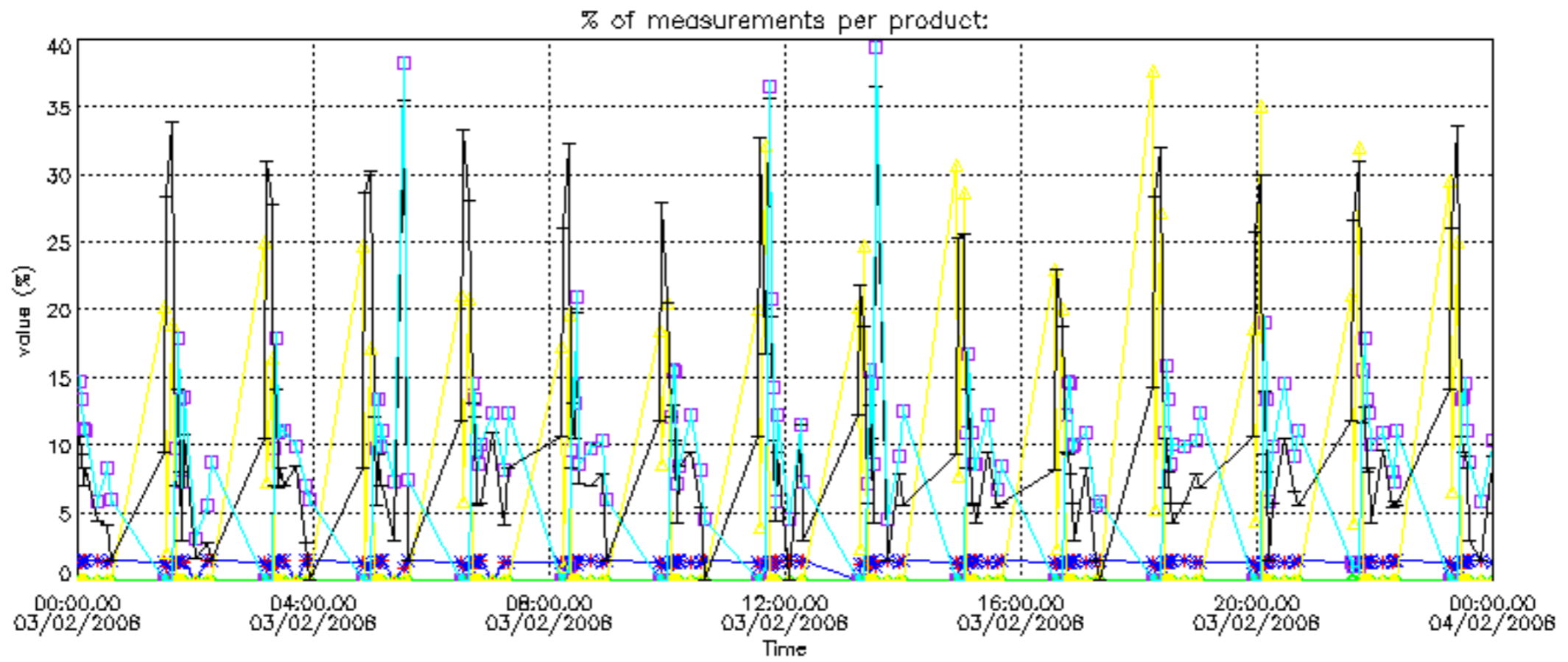
Percentage of flagged data per NO2 profile



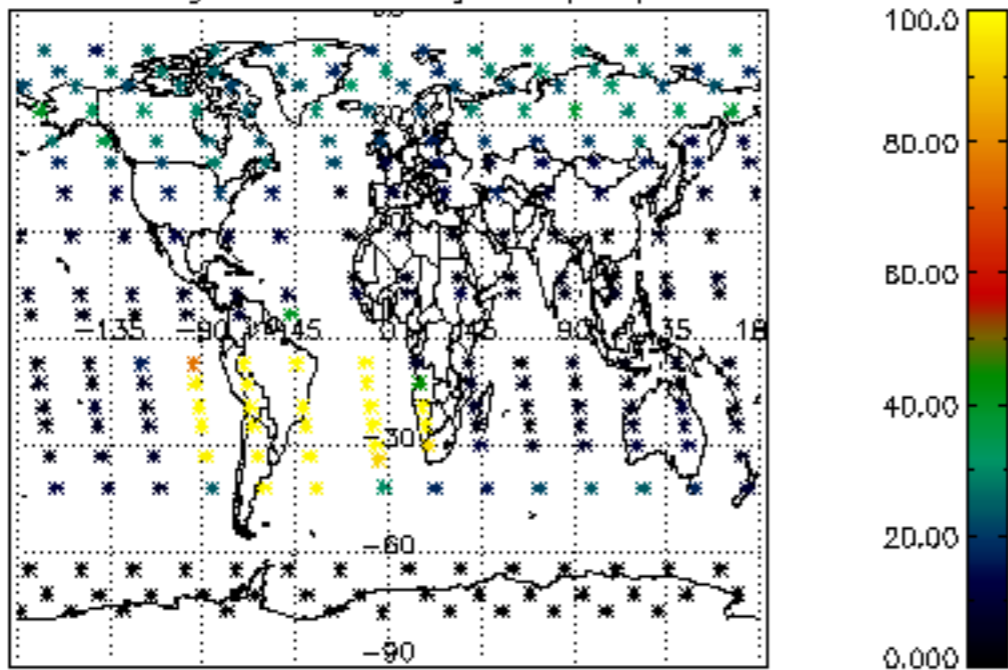
Percentage of flagged data per NO3 profile



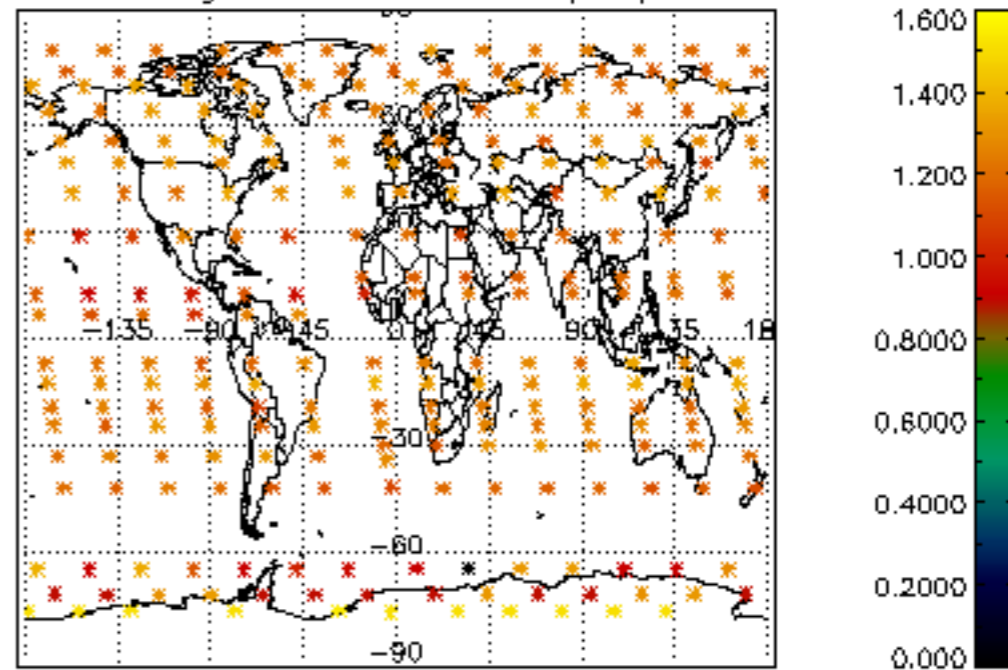




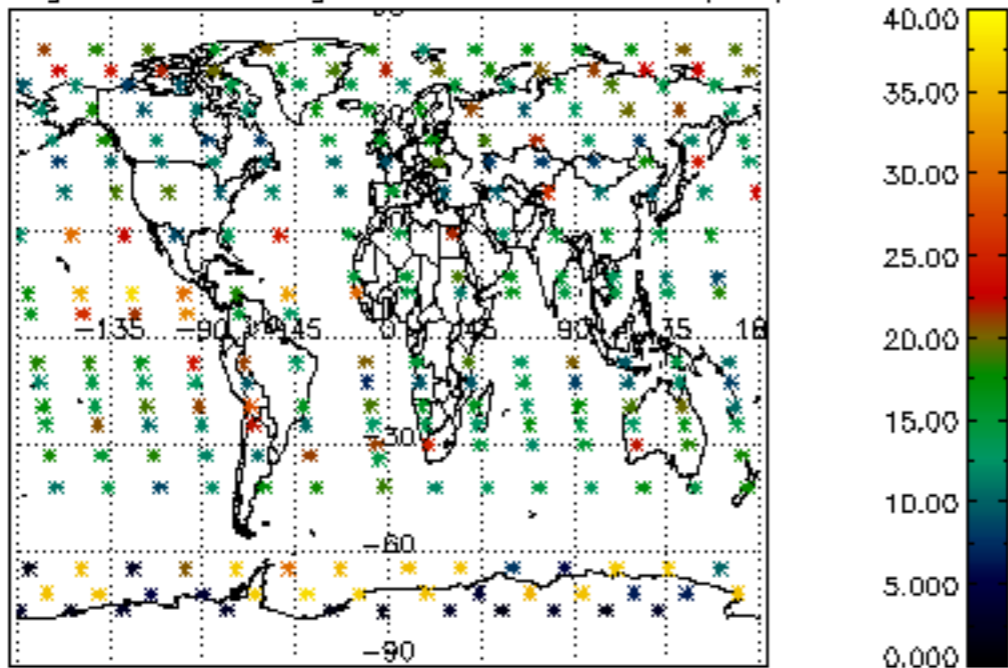
Percentage of cosmic ray hits per profile



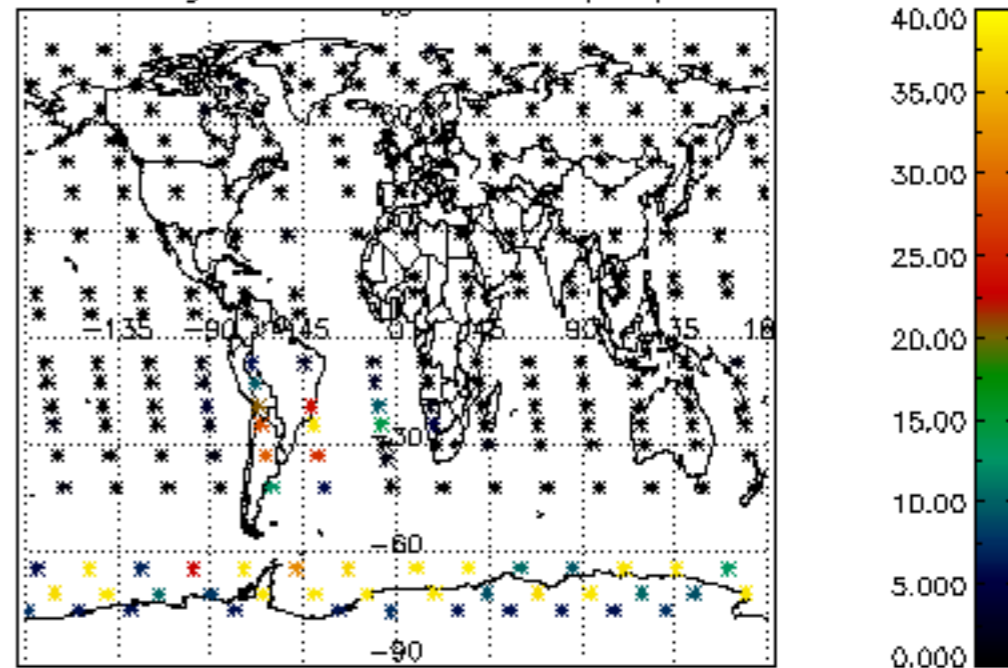
Percentage of datation errors per profile



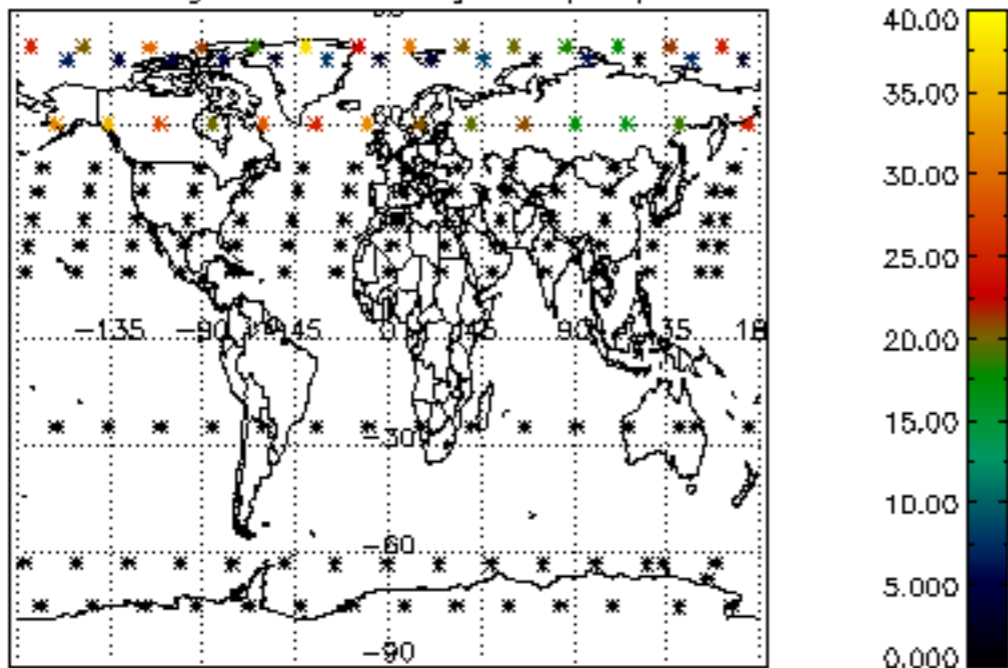
Percentage of star falling outside central band per profile



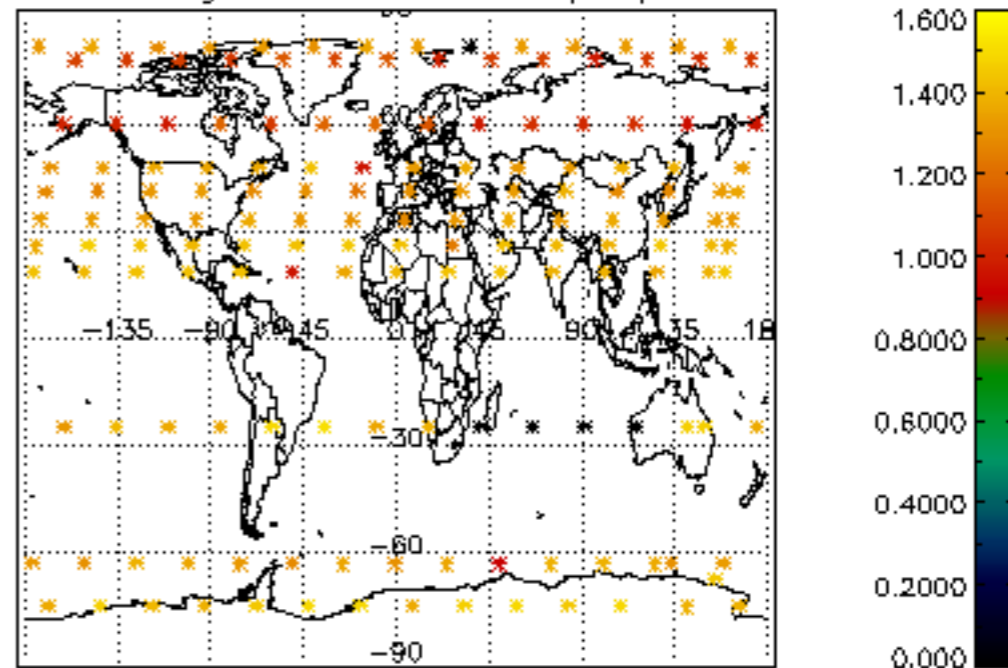
Percentage of saturation errors per profile



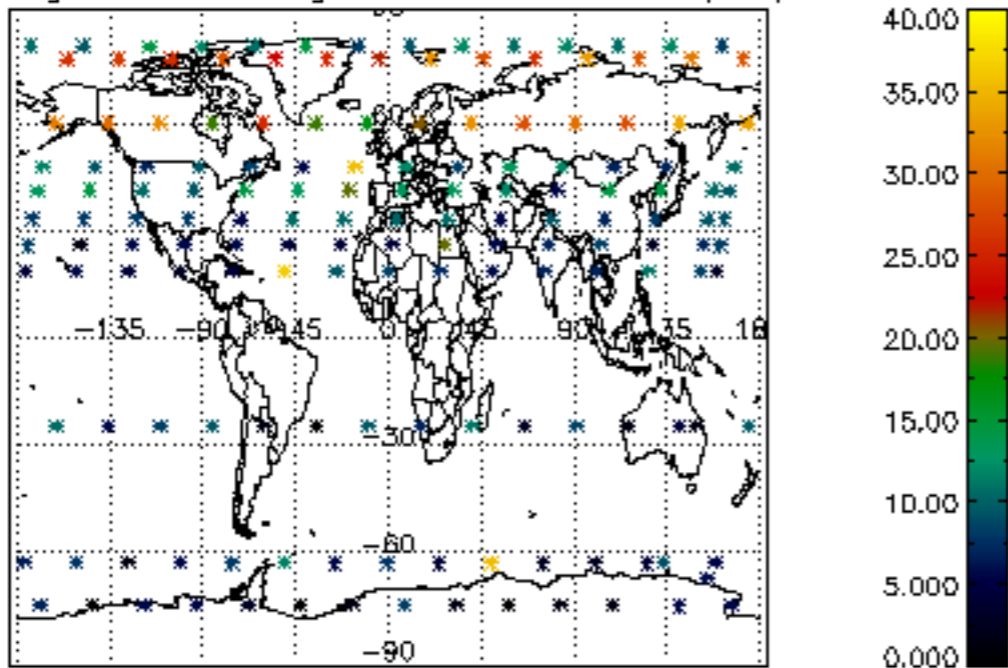
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

