

GOMOS Level 2 Daily Report

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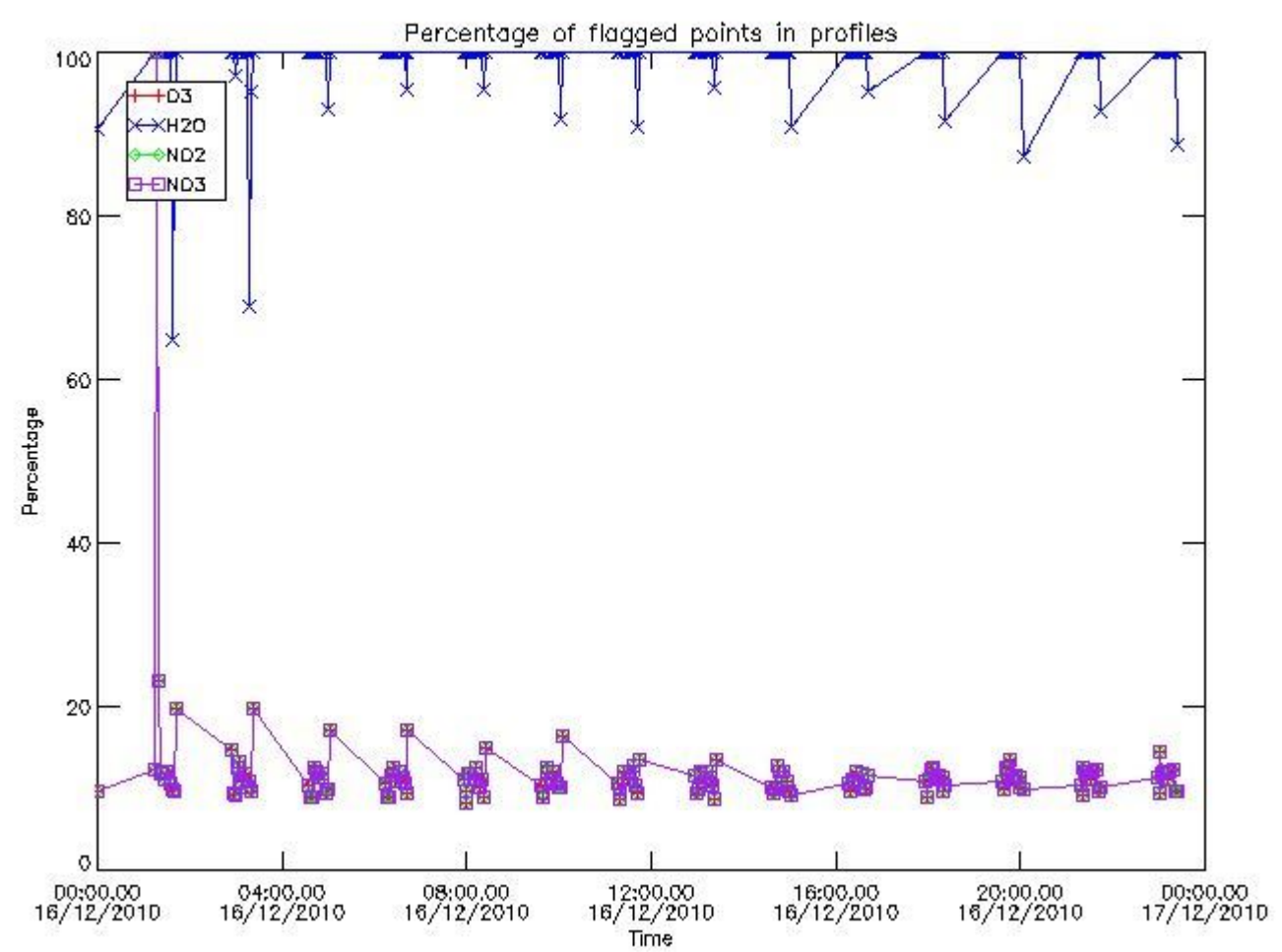
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397	GOM_NL__2PRFIN20101216_225736_000000453097_00288_45992_5425.N1	16-DEC-2010 22:57:36	Dark	45.000	169	46Gam Hya	2.9910	4700.0	90	45992	No
398	GOM_NL__2PRFIN20101216_230009_000000543097_00288_45992_5426.N1	16-DEC-2010 23:00:09	Dark	54.000	106	9Bet Crv	2.6480	5600.0	108	45992	No
399	GOM_NL__2PRFIN20101216_230147_000000353097_00288_45992_5427.N1	16-DEC-2010 23:01:47	Dark	35.000	171	2Eps Crv	3.0010	4250.0	70	45992	No
400	GOM_NL__2PRFIN20101216_230453_000000433097_00288_45992_5428.N1	16-DEC-2010 23:04:53	Dark	43.000	64	Gam Cen	2.2000	10600.	86	45992	No
401	GOM_NL__2PRFIN20101216_230631_000000423097_00289_45993_5415.N1	16-DEC-2010 23:06:31	Dark	42.000	99	Del Cen	2.5750	26000.	84	45993	No
402	GOM_NL__2PRFIN20101216_231024_000000463097_00289_45993_5416.N1	16-DEC-2010 23:10:24	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	45993	No
403	GOM_NL__2PRFIN20101216_231407_000000433097_00289_45993_5417.N1	16-DEC-2010 23:14:07	Dark	42.500	71	Iot Car	2.2460	7700.0	85	45993	No
404	GOM_NL__2PRFIN20101216_231846_000000463097_00289_45993_5418.N1	16-DEC-2010 23:18:46	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	45993	No
405	GOM_NL__2PRFIN20101216_232054_000000533097_00289_45993_5419.N1	16-DEC-2010 23:20:54	Dark	53.000	70	Zet Pup	2.2460	39000.	106	45993	No
406	GOM_NL__2PRFIN20101216_232334_000000533097_00289_45993_5420.N1	16-DEC-2010 23:23:34	Dark	53.000	117	Pi Pup	2.7060	3800.0	106	45993	No
407	GOM_NL__2PRFIN20101216_232647_000000513097_00289_45993_5421.N1	16-DEC-2010 23:26:47	Straylight	51.000	23	21Eps CMa	1.5020	26000.	102	45993	No
408	GOM_NL__2PRFIN20101216_232833_000000343097_00289_45993_5422.N1	16-DEC-2010 23:28:33	Straylight	34.000	179	24Omi2CMa	3.0320	24000.	68	45993	No
409	GOM_NL__2PRFIN20101216_233116_000000513097_00289_45993_5423.N1	16-DEC-2010 23:31:16	Straylight	50.500	47	2Bet CMa	1.9760	28000.	101	45993	No
410	GOM_NL__2PRFIN20101216_233447_000000483097_00289_45993_5424.N1	16-DEC-2010 23:34:47	Straylight	47.500	7	19Bet Ori	0.10000	14000.	95	45993	No
411	GOM_NL__2PRFIN20101216_233700_000000483097_00289_45993_5425.N1	16-DEC-2010 23:37:00	Straylight	48.000	30	46Eps Ori	1.6940	30000.	96	45993	No
412	GOM_NL__2PRFIN20101216_234005_000000593097_00289_45993_5426.N1	16-DEC-2010 23:40:05	Twi_and_stray	59.000	14	58Alp Ori	0.87000	3000.0	118	45993	No
413	GOM_NL__2PRFIN20101216_234205_000000473097_00289_45993_5427.N1	16-DEC-2010 23:42:05	Twi_and_stray	46.500	13	87Alp Tau	0.86700	3800.0	93	45993	No
414	GOM_NL__2PRFIN20101216_234414_000000423097_00289_45993_5428.N1	16-DEC-2010 23:44:14	Bright	42.000	176	23Zet Tau	3.0200	22000.	84	45993	No
415	GOM_NL__2PRFIN20101216_234617_000000443097_00289_45993_5429.N1	16-DEC-2010 23:46:17	Bright	43.500	28	12Bet Tau	1.6500	15200.	87	45993	No
416	GOM_NL__2PRFIN20101216_234949_000000443097_00289_45993_5430.N1	16-DEC-2010 23:49:49	Bright	44.000	107	37The Aur	2.6490	11000.	88	45993	No
417	GOM_NL__2PRFIN20101216_235159_000000443097_00289_45993_5431.N1	16-DEC-2010 23:51:59	Bright	43.500	42	34Bet Aur	1.9000	10200.	87	45993	No

3. Quality information per product

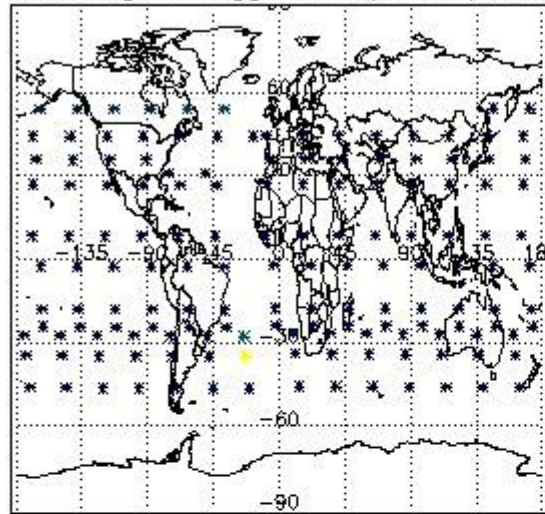
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

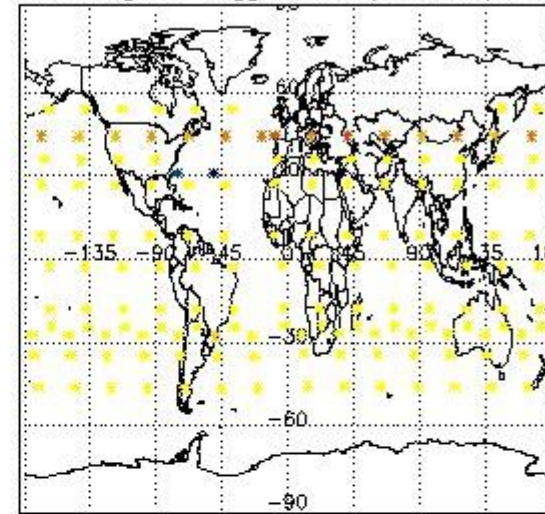


3.2 Plot quality information per product (world map)

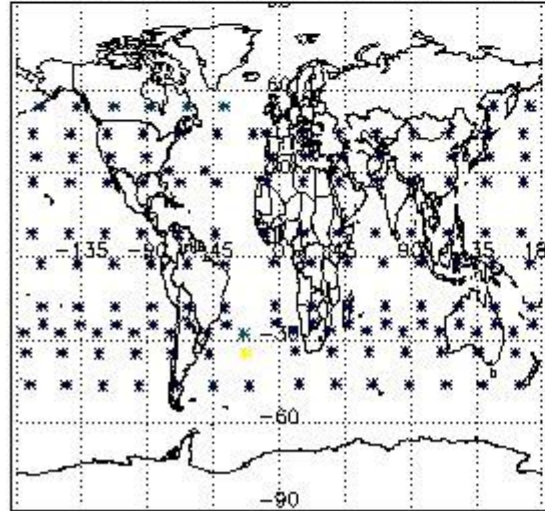
Percentage of flagged data per O3 profile



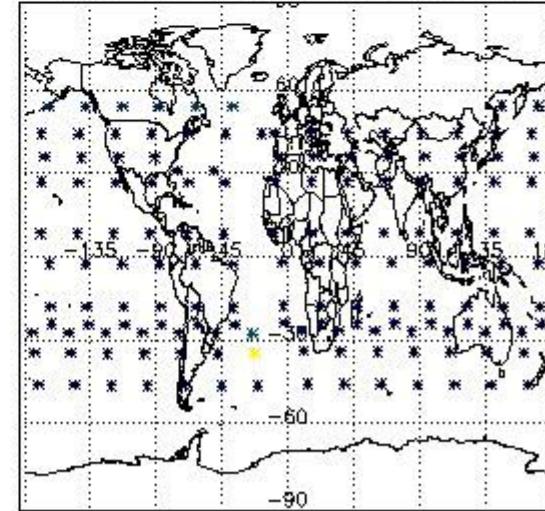
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

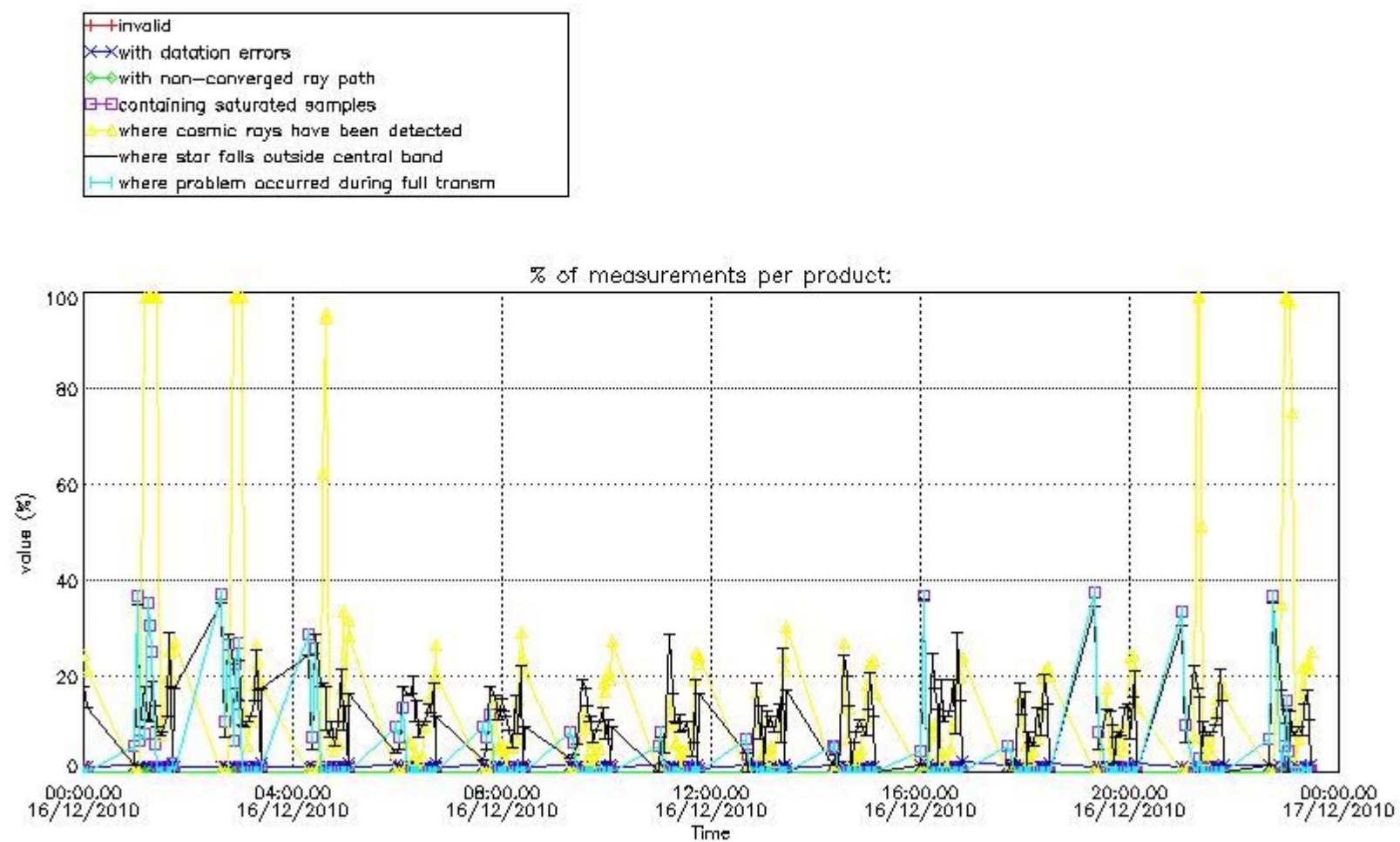


4. Level 1 quality information per product

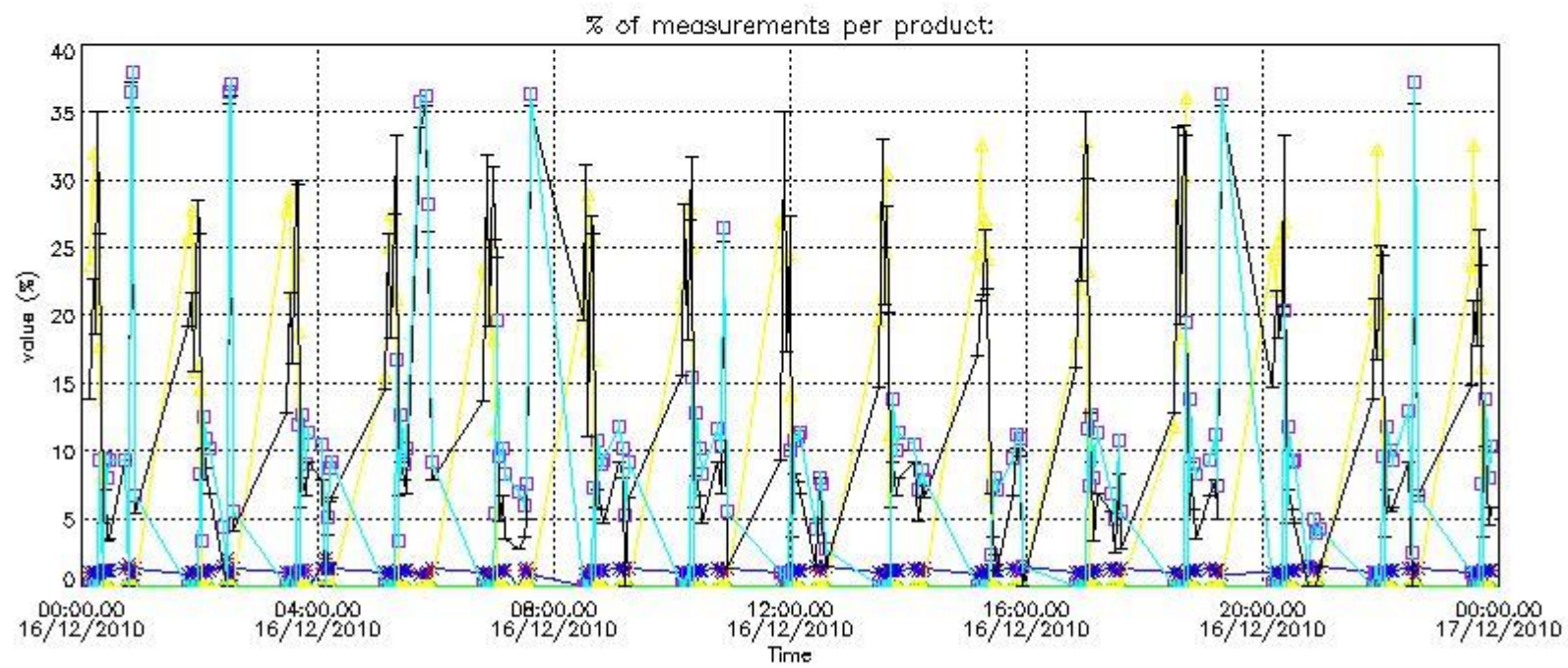
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

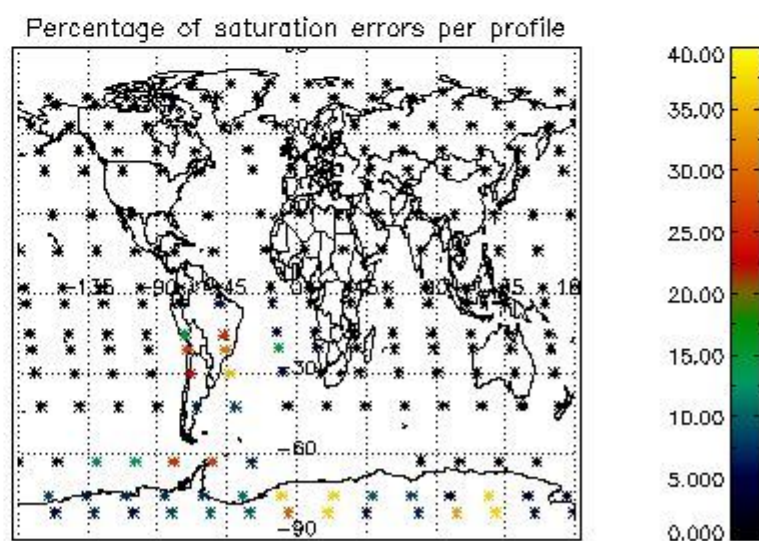
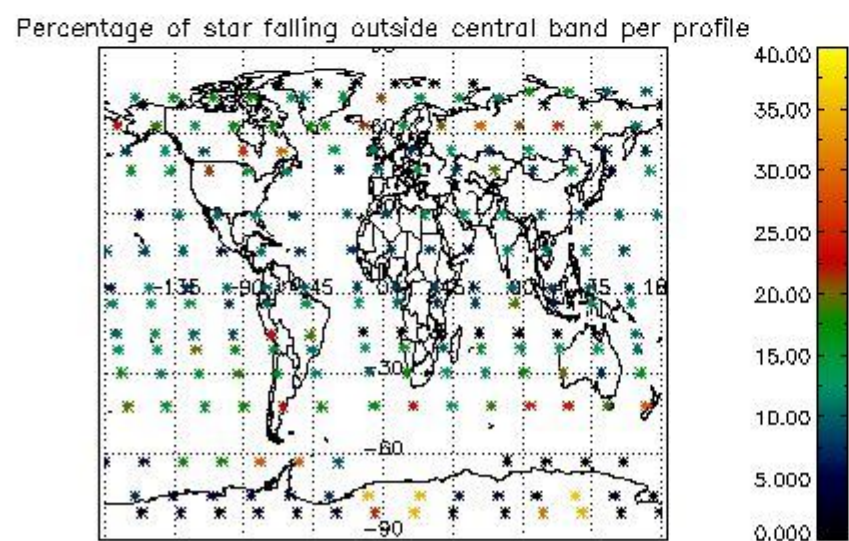
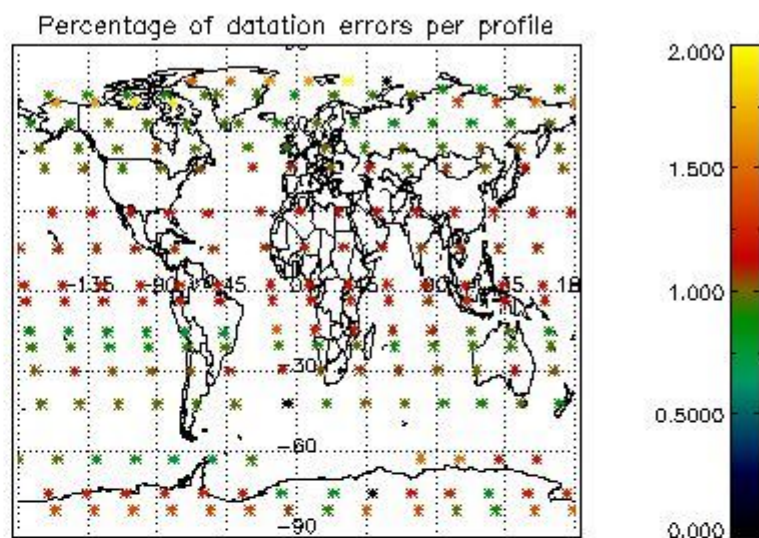
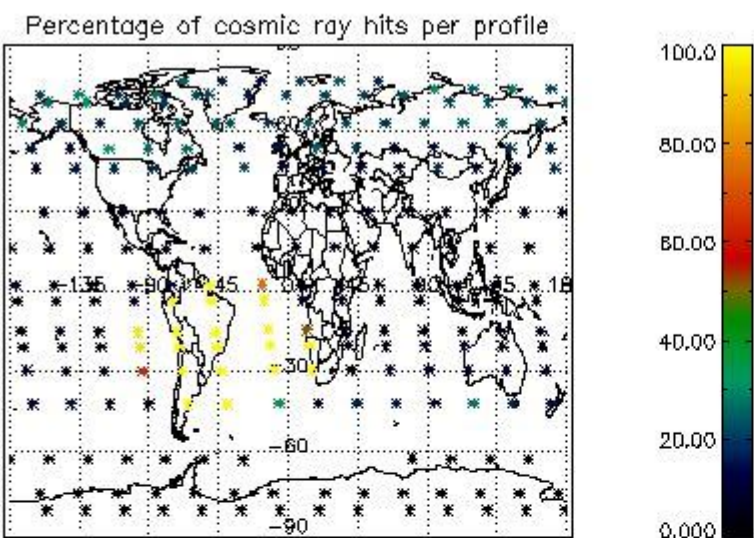


4.1.2 Plot level 1 quality information per product (time dependant): ENVI-SAT DESCENDING passes

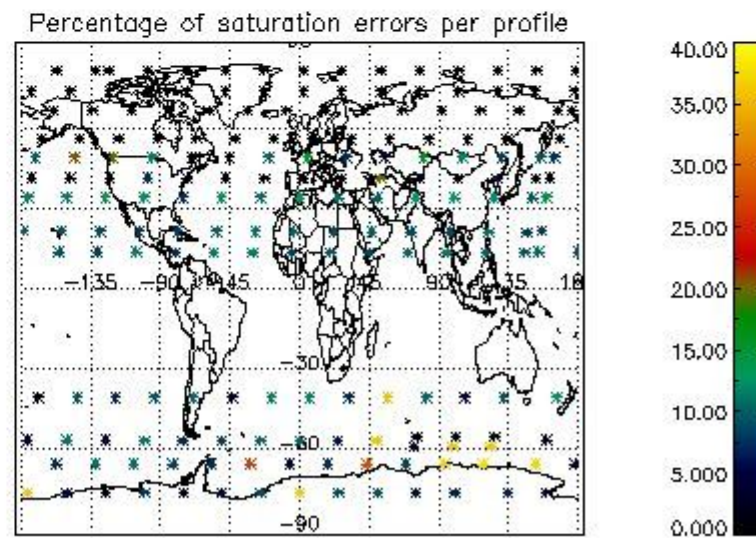
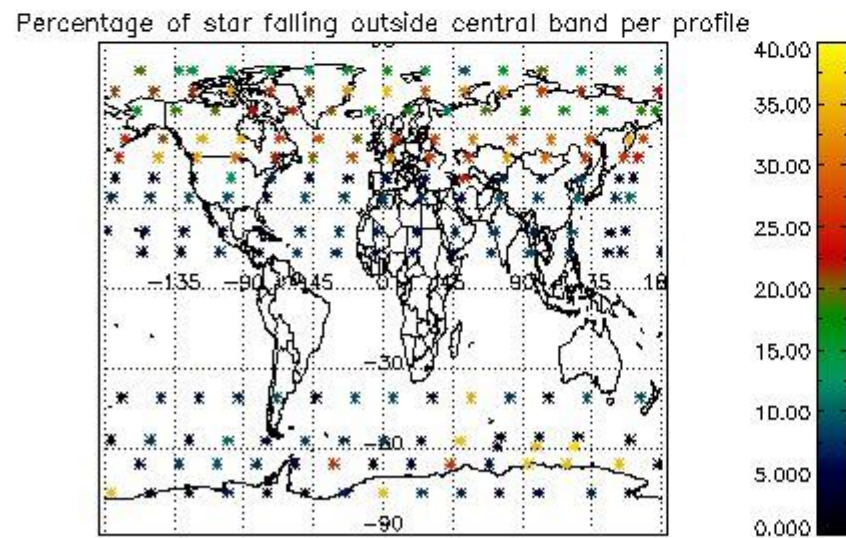
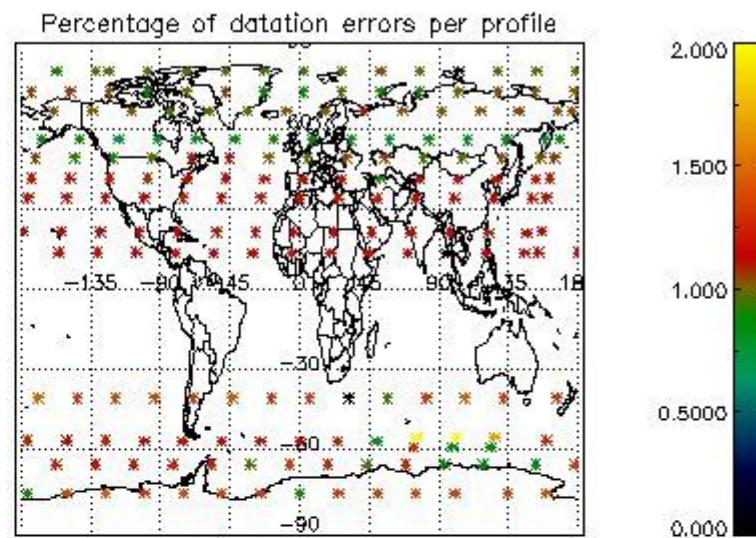
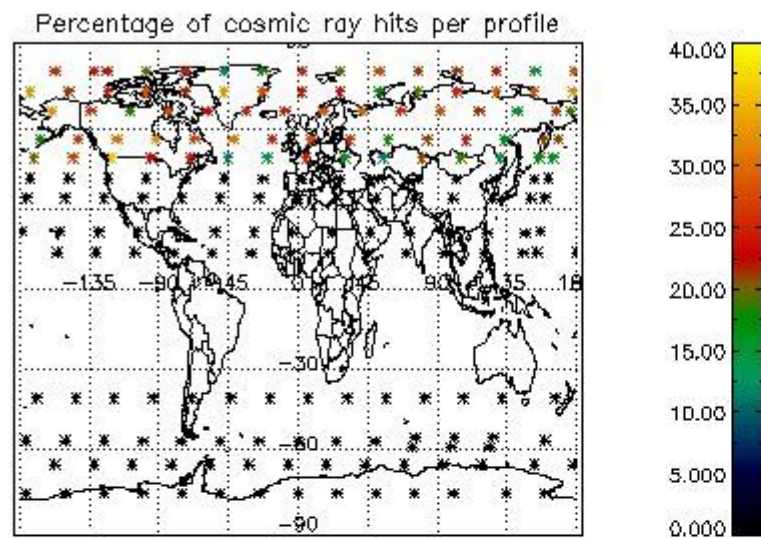


4.2 Plot quality information per product coming from level 1b processing (world map)

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

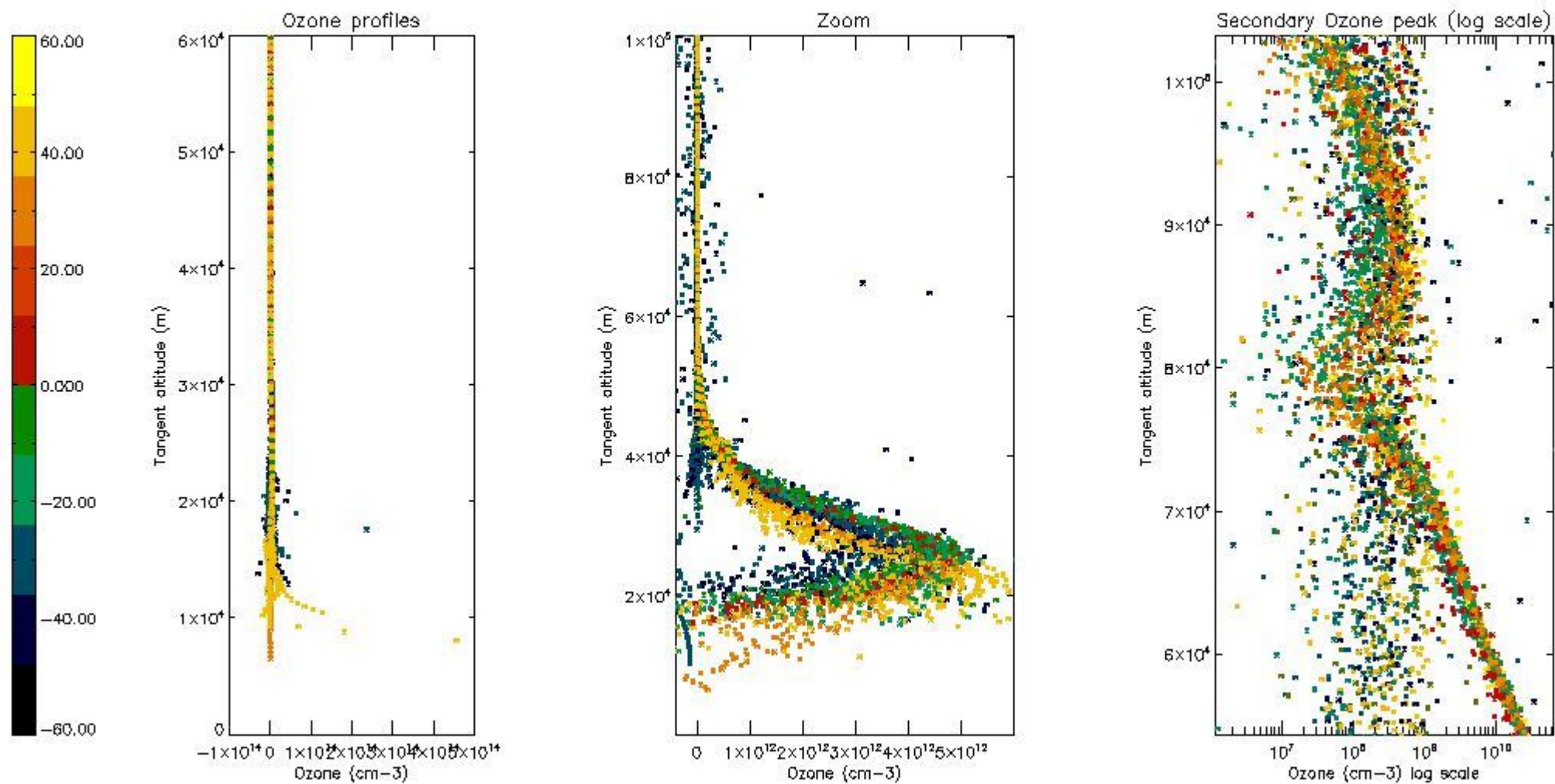
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	36
STD < 20	14

STD < 10	10
STD < 5	5

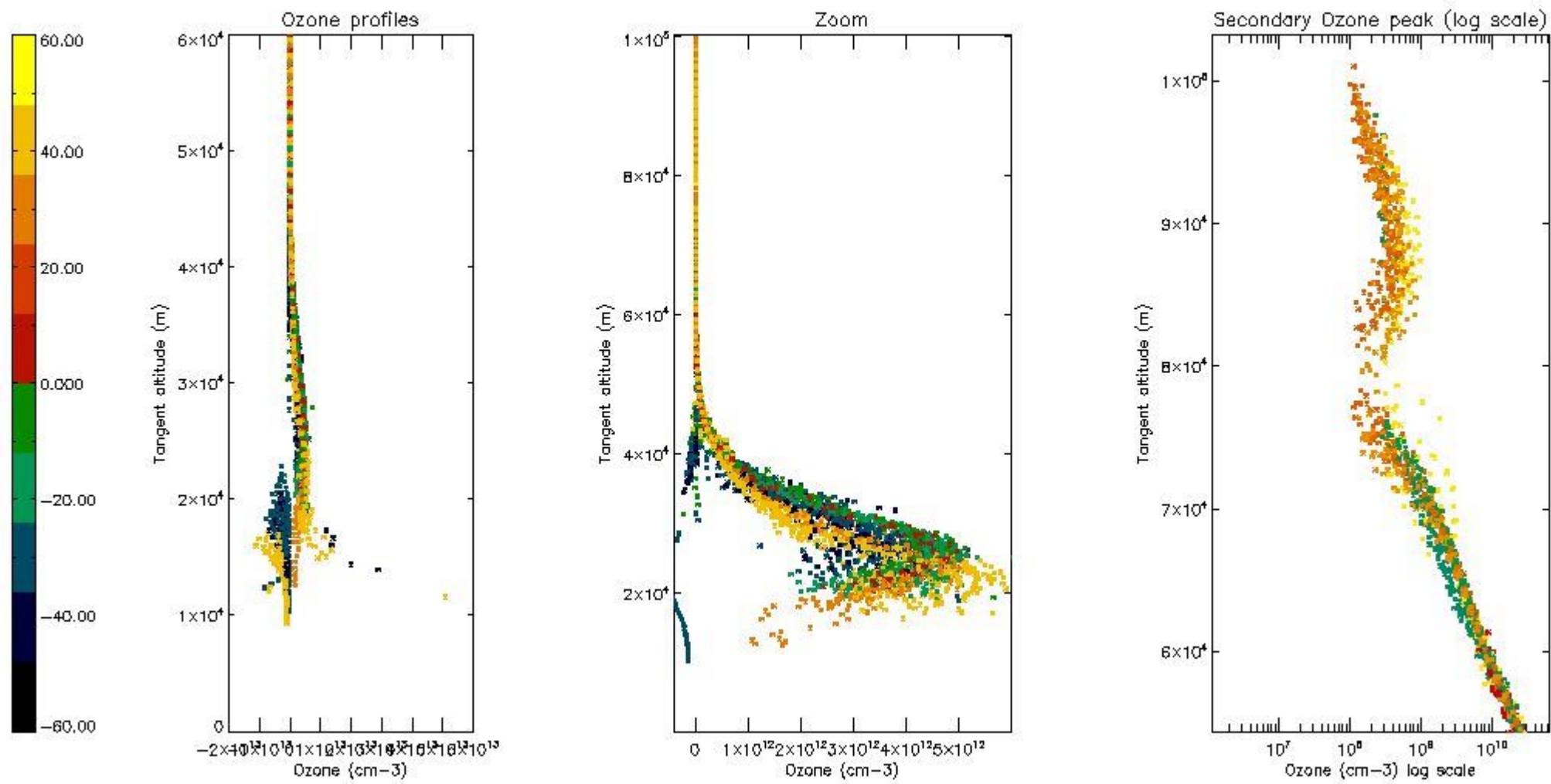
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



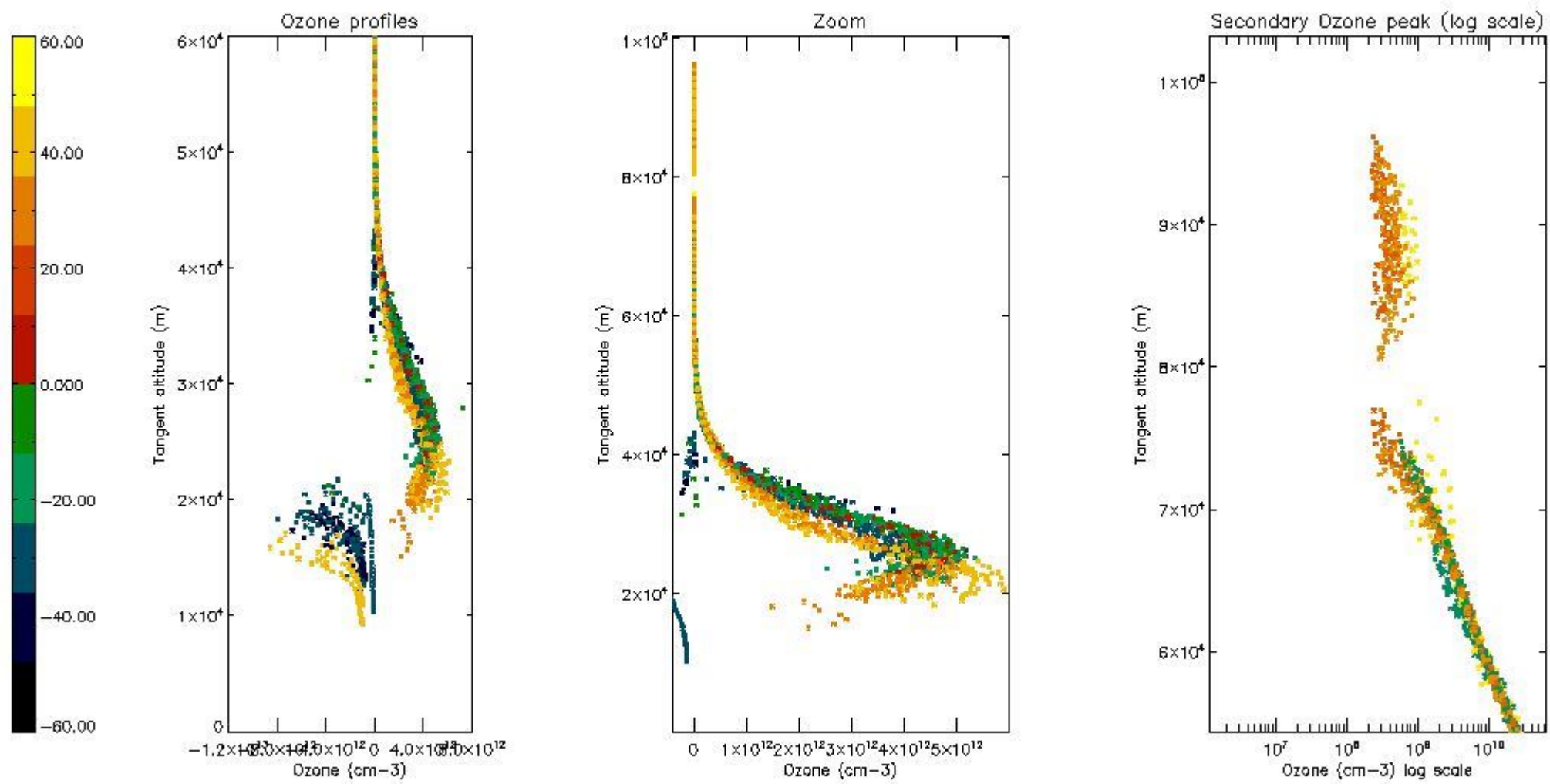
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



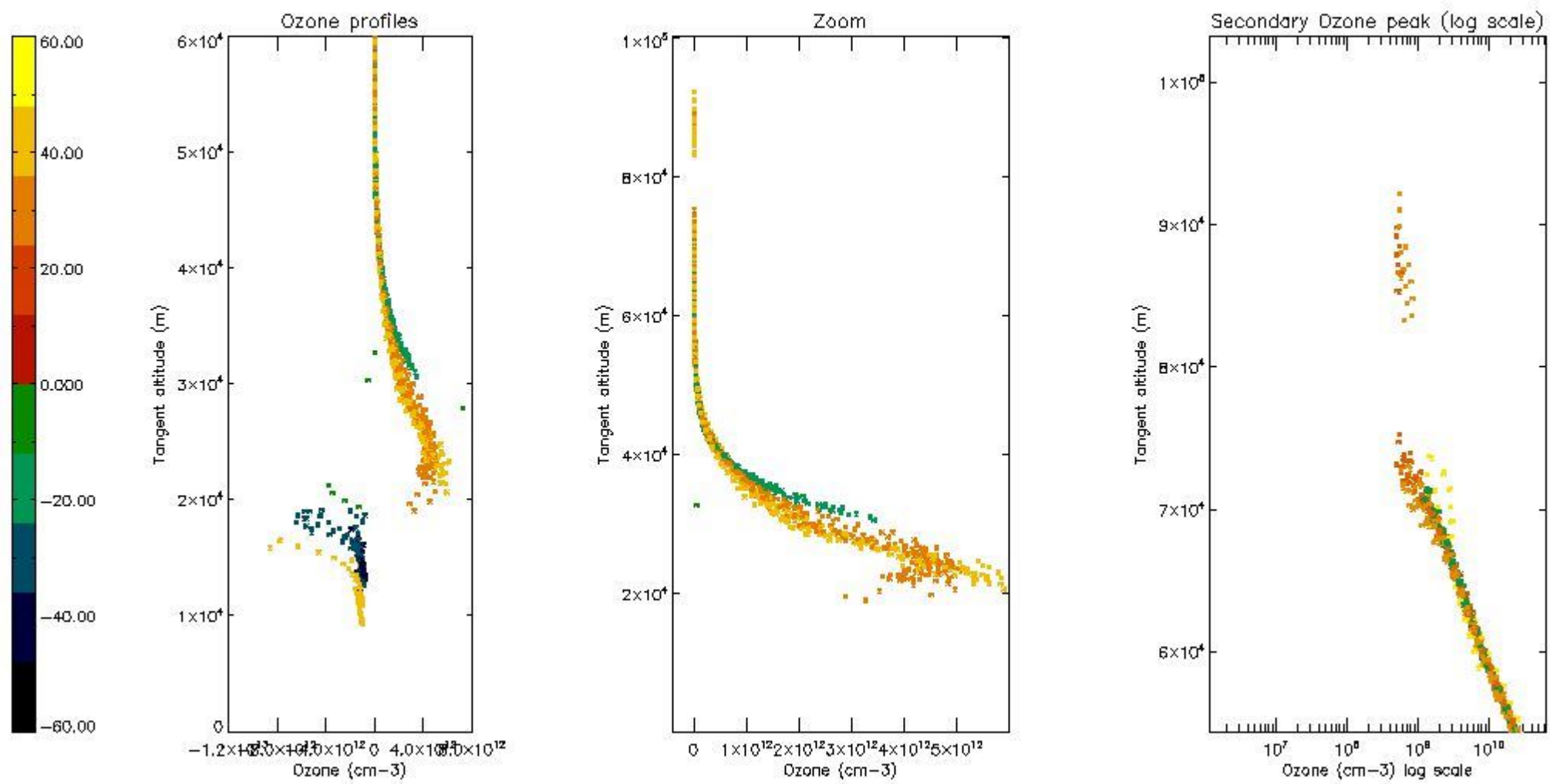
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



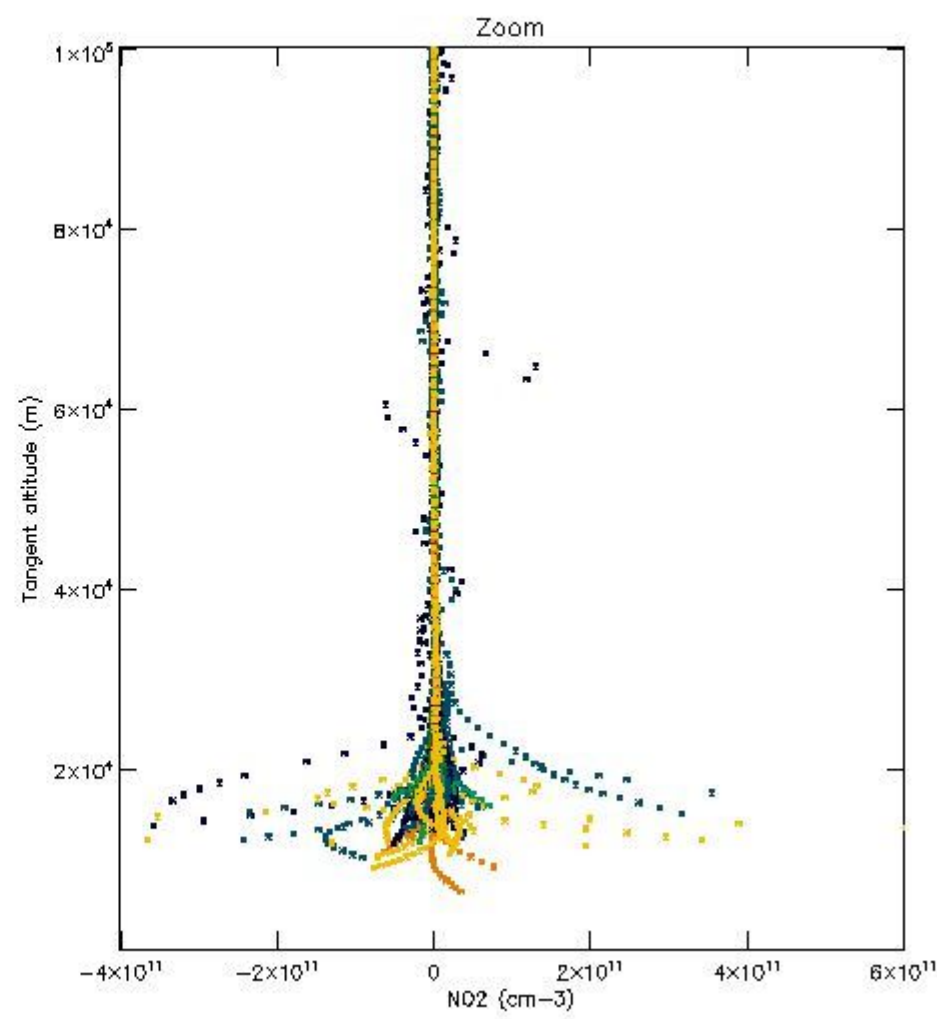
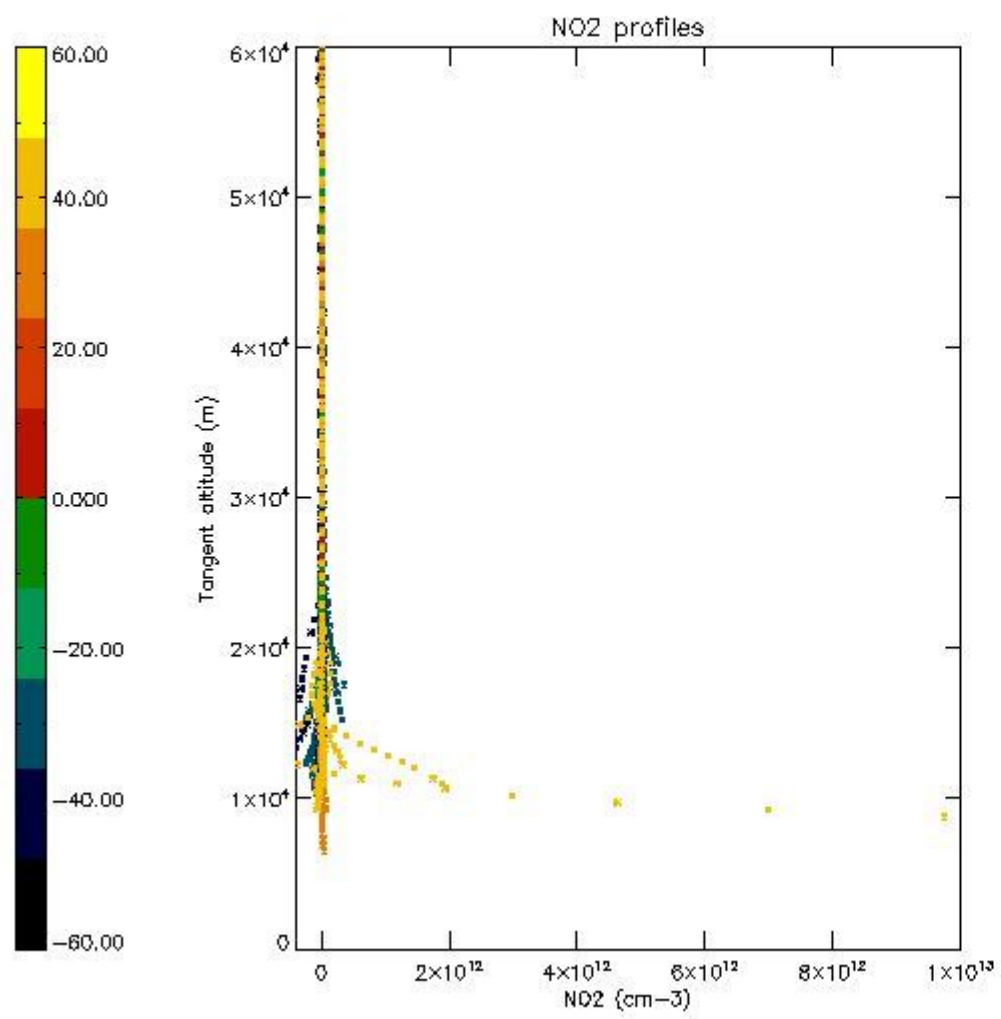
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



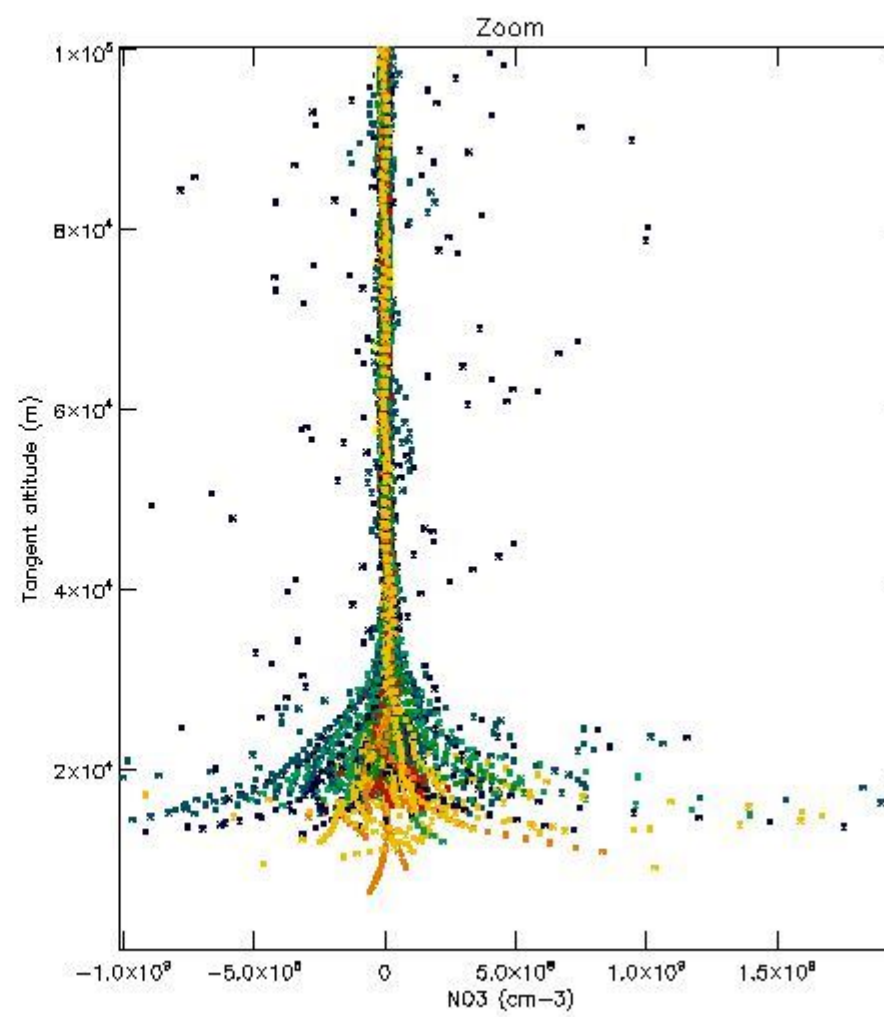
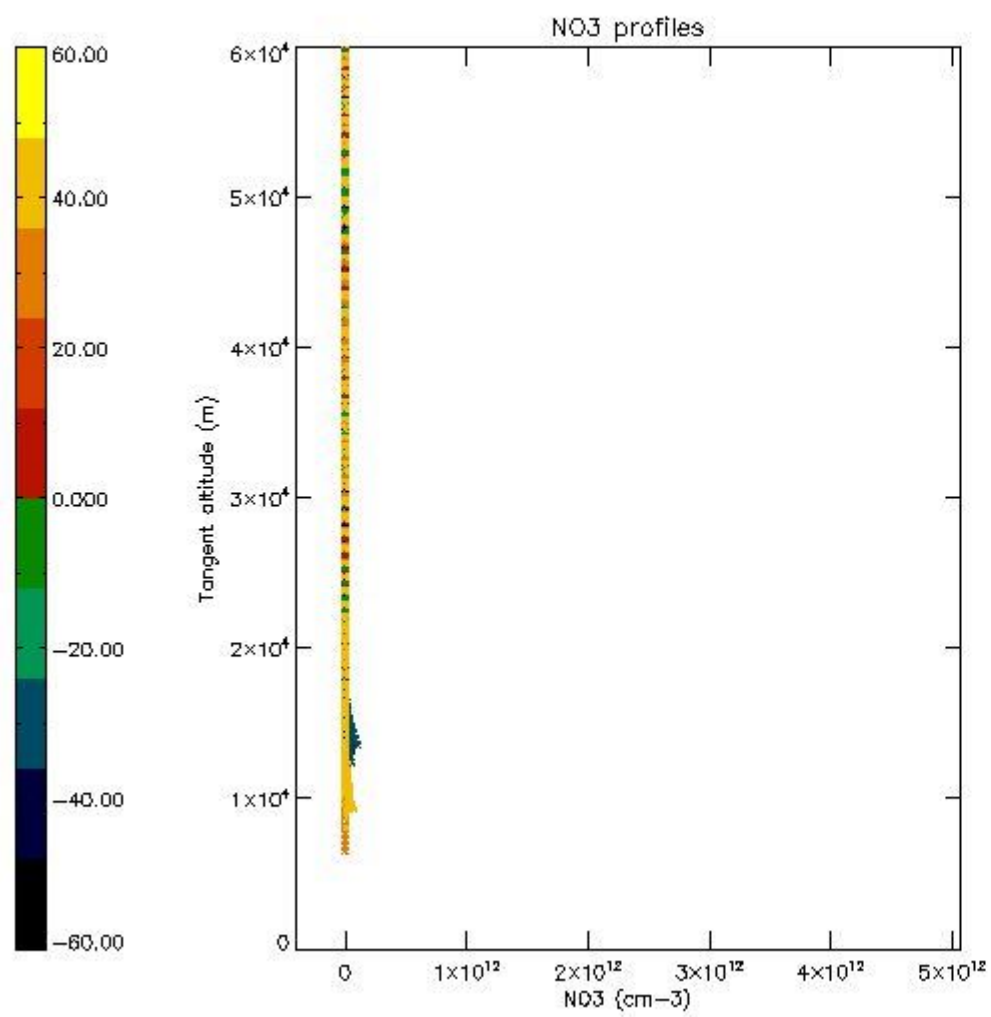
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



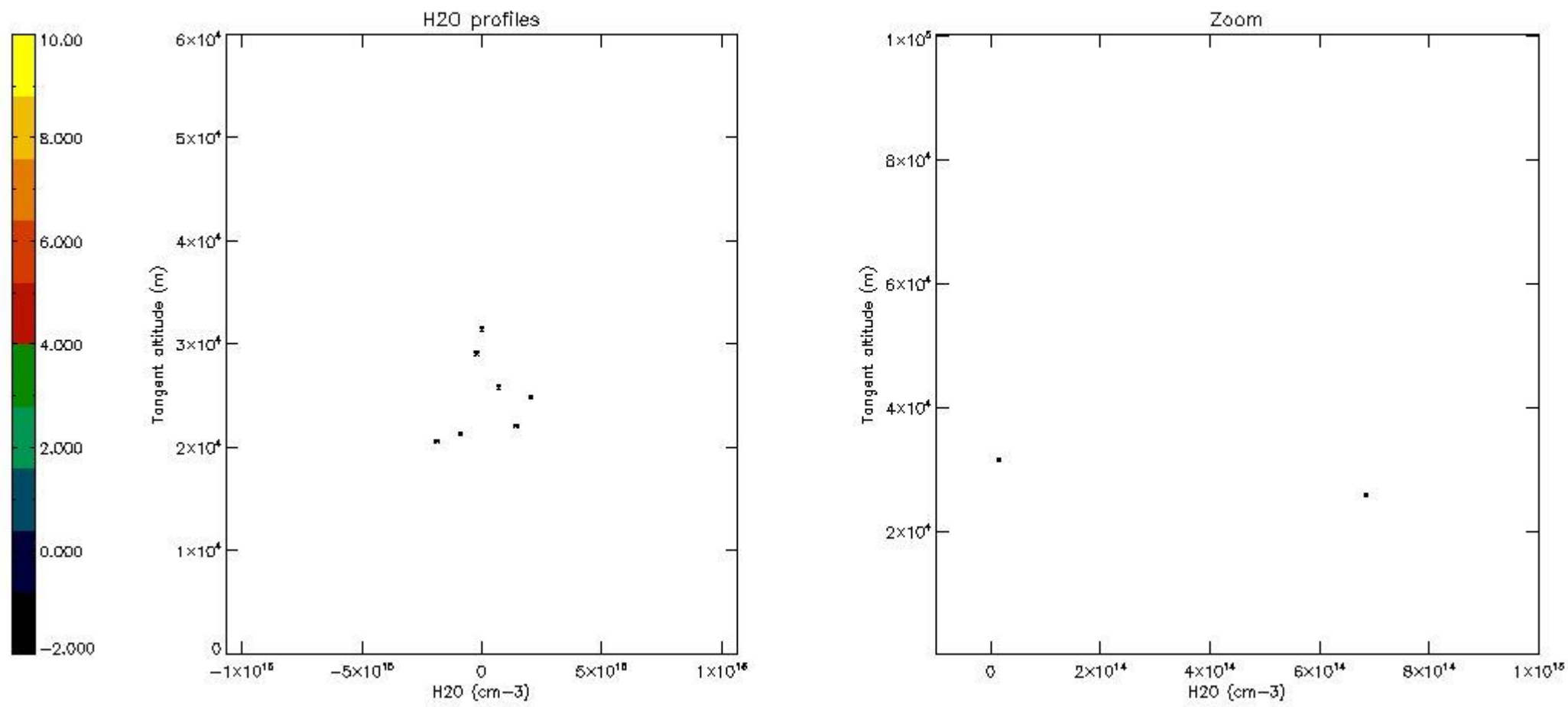
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	16-DEC-2010 00:00:10
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	16-DEC-2010 00:00:10
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	16-DEC-2010 00:00:10

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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	29APR2013 17:19:29
Data source version	GOMOS/6.01
Start time of products	16-12-2010 (16DEC2010 00:00:00)
Stop time of products	17-12-2010 (17DEC2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	417
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

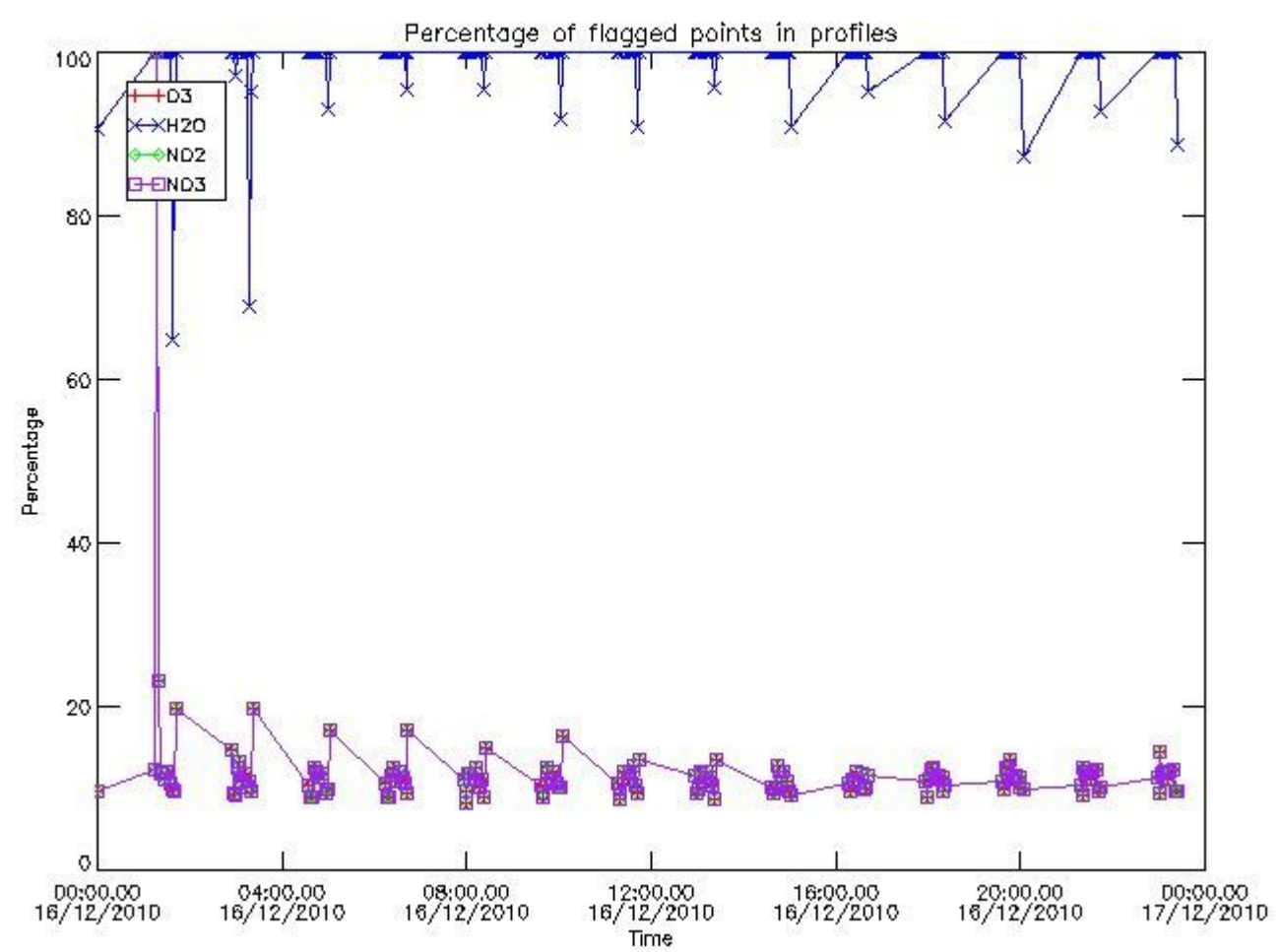
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20101216_000010_00000533097_00275_45979_5107.N1	16-DEC-2010 00:00:10	Dark	53.000	117	Pi Pup	2.7060	3800.0	106	45979	No
2	GOM_NL__2PRFIN20101216_000325_00000533097_00275_45979_5108.N1	16-DEC-2010 00:03:25	Straylight	52.500	23	21Eps CMa	1.5020	26000.	105	45979	No
3	GOM_NL__2PRFIN20101216_000758_00000513097_00275_45979_5109.N1	16-DEC-2010 00:07:58	Straylight	50.500	47	2Bet CMa	1.9760	28000.	101	45979	No
4	GOM_NL__2PRFIN20101216_001130_00000493097_00275_45979_5110.N1	16-DEC-2010 00:11:30	Straylight	48.500	7	19Bet Ori	0.10000	14000.	97	45979	No
5	GOM_NL__2PRFIN20101216_001345_00000493097_00275_45979_5111.N1	16-DEC-2010 00:13:45	Straylight	48.500	30	46Eps Ori	1.6940	30000.	97	45979	No
6	GOM_NL__2PRFIN20101216_001653_00000673097_00275_45979_5112.N1	16-DEC-2010 00:16:53	Twilight	67.000	14	58Alp Ori	0.87000	3000.0	134	45979	No
7	GOM_NL__2PRFIN20101216_001850_00000483097_00275_45979_5113.N1	16-DEC-2010 00:18:50	Twilight	48.000	13	87Alp Tau	0.86700	3800.0	96	45979	No
8	GOM_NL__2PRFIN20101216_002103_00000433097_00275_45979_5114.N1	16-DEC-2010 00:21:03	Bright	43.000	176	23Zet Tau	3.0200	22000.	86	45979	No
9	GOM_NL__2PRFIN20101216_002306_00000423097_00275_45979_5115.N1	16-DEC-2010 00:23:06	Bright	42.000	28	12Bet Tau	1.6500	15200.	84	45979	No
10	GOM_NL__2PRFIN20101216_002641_00000443097_00275_45979_5116.N1	16-DEC-2010 00:26:41	Bright	44.000	107	37The Aur	2.6490	11000.	88	45979	No
11	GOM_NL__2PRFIN20101216_002851_00000433097_00275_45979_5117.N1	16-DEC-2010 00:28:51	Bright	43.000	42	34Bet Aur	1.9000	10200.	86	45979	No
12	GOM_NL__2PRFIN20101216_004359_00000383097_00275_45979_5118.N1	16-DEC-2010 00:43:59	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	45979	No
13	GOM_NL__2PRFIN20101216_004812_00000303097_00275_45979_5119.N1	16-DEC-2010 00:48:12	Twilight	30.000	87	64Gam UMa	2.4330	11000.	60	45979	No
14	GOM_NL__2PRFIN20101216_004914_00000593097_00275_45979_5120.N1	16-DEC-2010 00:49:14	Bright	59.000	55	79Zet UMa	2.0600	10200.	118	45979	No
15	GOM_NL__2PRFIN20101216_005109_00000583097_00275_45979_5121.N1	16-DEC-2010 00:51:09	Bright	58.000	39	85Eta UMa	1.8540	24000.	116	45979	No
16	GOM_NL__2PRFIN20101216_005429_00000373097_00275_45979_5122.N1	16-DEC-2010 00:54:29	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	45979	No
17	GOM_NL__2PRFIN20101216_005742_00000363097_00275_45979_5123.N1	16-DEC-2010 00:57:42	Bright	35.500	83		2.3780	11000.	71	45979	No
18	GOM_NL__2PRFIN20101216_010100_00000603097_00275_45979_5124.N1	16-DEC-2010 01:01:00	Bright	60.000	111	8Eta Boo	2.6800	6000.0	120	45979	No
19	GOM_NL__2PRFIN20101216_010456_00000543097_00275_45979_5125.N1	16-DEC-2010 01:04:56	Bright	53.500	138	47Eps Vir	2.8280	4700.0	107	45979	No
20	GOM_NL__2PRFIN20101216_011054_00000513097_00275_45979_5126.N1	16-DEC-2010 01:10:54	Twilight	50.500	15	67Alp Vir	0.97600	28000.	101	45979	No
21	GOM_NL__2PRFIN20101216_011424_00000463097_00275_45979_5127.N1	16-DEC-2010 01:14:24	Dark	45.500	169	46Gam Hya	2.9910	4700.0	91	45979	No
22	GOM_NL__2PRFIN20101216_011652_00000533097_00275_45979_5128.N1	16-DEC-2010 01:16:52	Dark	52.500	106	9Bet Crv	2.6480	5600.0	105	45979	No
23	GOM_NL__2PRFIN20101216_011827_00000643097_00275_45979_5129.N1	16-DEC-2010 01:18:27	Dark	63.500	171	2Eps Crv	3.0010	4250.0	127	45979	No
24	GOM_NL__2PRFIN20101216_012143_00000443097_00275_45979_5130.N1	16-DEC-2010 01:21:43	Dark	43.500	64	Gam Cen	2.2000	10600.	87	45979	No
25	GOM_NL__2PRFIN20101216_012320_00000423097_00276_45980_5102.N1	16-DEC-2010 01:23:20	Dark	42.000	99	Del Cen	2.5750	26000.	84	45980	No
26	GOM_NL__2PRFIN20101216_012710_00000463097_00276_45980_5103.N1	16-DEC-2010 01:27:10	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	45980	No
27	GOM_NL__2PRFIN20101216_013056_00000423097_00276_45980_5104.N1	16-DEC-2010 01:30:56	Dark	42.000	71	lot Car	2.2460	7700.0	84	45980	No
28	GOM_NL__2PRFIN20101216_013535_00000483097_00276_45980_5105.N1	16-DEC-2010 01:35:35	Dark	48.000	34	Gam2Vel	1.7930	23000.	96	45980	No
29	GOM_NL__2PRFIN20101216_013743_00000523097_00276_45980_5106.N1	16-DEC-2010 01:37:43	Dark	51.500	2	Alp Car	-0.73600	7000.0	103	45980	No
30	GOM_NL__2PRFIN20101216_014025_00000543097_00276_45980_5107.N1	16-DEC-2010 01:40:25	Dark	53.500	117	Pi Pup	2.7060	3800.0	107	45980	No
31	GOM_NL__2PRFIN20101216_014249_00000263097_00276_45980_5108.N1	16-DEC-2010 01:42:49	Dark	26.000	88	31Eta CMa	2.4480	20000.	52	45980	No
32	GOM_NL__2PRFIN20101216_014339_00000553097_00276_45980_5109.N1	16-DEC-2010 01:43:39	Straylight	55.000	23	21Eps CMa	1.5020	26000.	110	45980	No
33	GOM_NL__2PRFIN20101216_014812_00000553097_00276_45980_5110.N1	16-DEC-2010 01:48:12	Straylight	54.500	47	2Bet CMa	1.9760	28000.	109	45980	No
34	GOM_NL__2PRFIN20101216_015144_00000493097_00276_45980_5111.N1	16-DEC-2010 01:51:44	Straylight	48.500	7	19Bet Ori	0.10000	14000.	97	45980	No
35	GOM_NL__2PRFIN20101216_015359_00000483097_00276_45980_5112.N1	16-DEC-2010 01:53:59	Straylight	47.500	30	46Eps Ori	1.6940	30000.	95	45980	No
36	GOM_NL__2PRFIN20101216_015707_00000623097_00276_45980_5113.N1	16-DEC-2010 01:57:07	Twilight	61.500	14	58Alp Ori	0.87000	3000.0	123	45980	No
37	GOM_NL__2PRFIN20101216_015903_00000483097_00276_45980_5114.N1	16-DEC-2010 01:59:03	Twilight	48.000	13	87Alp Tau	0.86700	3800.0	96	45980	No
38	GOM_NL__2PRFIN20101216_020116_00000453097_00276_45980_5115.N1	16-DEC-2010 02:01:16	Bright	44.500	176	23Zet Tau	3.0200	22000.	89	45980	No
39	GOM_NL__2PRFIN20101216_020320_00000443097_00276_45980_5116.N1	16-DEC-2010 02:03:20	Bright	44.000	28	12Bet Tau	1.6500	15200.	88	45980	No
40	GOM_NL__2PRFIN20101216_020655_00000463097_00276_45980_5117.N1	16-DEC-2010 02:06:55	Bright	46.000	107	37The Aur	2.6490	11000.	92	45980	No
41	GOM_NL__2PRFIN20101216_020905_00000443097_00276_45980_5118.N1	16-DEC-2010 02:09:05	Bright	44.000	42	34Bet Aur	1.9000	10200.	88	45980	No
42	GOM_NL__2PRFIN20101216_022413_00000353097_00276_45980_5119.N1	16-DEC-2010 02:24:13	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	45980	No

397	GOM_NL__2PRFIN20101216_225736_000000453097_00288_45992_5425.N1	16-DEC-2010 22:57:36	Dark	45.000	169	46Gam Hya	2.9910	4700.0	90	45992	No
398	GOM_NL__2PRFIN20101216_230009_000000543097_00288_45992_5426.N1	16-DEC-2010 23:00:09	Dark	54.000	106	9Bet Crv	2.6480	5600.0	108	45992	No
399	GOM_NL__2PRFIN20101216_230147_000000353097_00288_45992_5427.N1	16-DEC-2010 23:01:47	Dark	35.000	171	2Eps Crv	3.0010	4250.0	70	45992	No
400	GOM_NL__2PRFIN20101216_230453_000000433097_00288_45992_5428.N1	16-DEC-2010 23:04:53	Dark	43.000	64	Gam Cen	2.2000	10600.	86	45992	No
401	GOM_NL__2PRFIN20101216_230631_000000423097_00289_45993_5415.N1	16-DEC-2010 23:06:31	Dark	42.000	99	Del Cen	2.5750	26000.	84	45993	No
402	GOM_NL__2PRFIN20101216_231024_000000463097_00289_45993_5416.N1	16-DEC-2010 23:10:24	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	45993	No
403	GOM_NL__2PRFIN20101216_231407_000000433097_00289_45993_5417.N1	16-DEC-2010 23:14:07	Dark	42.500	71	Iot Car	2.2460	7700.0	85	45993	No
404	GOM_NL__2PRFIN20101216_231846_000000463097_00289_45993_5418.N1	16-DEC-2010 23:18:46	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	45993	No
405	GOM_NL__2PRFIN20101216_232054_000000533097_00289_45993_5419.N1	16-DEC-2010 23:20:54	Dark	53.000	70	Zet Pup	2.2460	39000.	106	45993	No
406	GOM_NL__2PRFIN20101216_232334_000000533097_00289_45993_5420.N1	16-DEC-2010 23:23:34	Dark	53.000	117	Pi Pup	2.7060	3800.0	106	45993	No
407	GOM_NL__2PRFIN20101216_232647_000000513097_00289_45993_5421.N1	16-DEC-2010 23:26:47	Straylight	51.000	23	21Eps CMa	1.5020	26000.	102	45993	No
408	GOM_NL__2PRFIN20101216_232833_000000343097_00289_45993_5422.N1	16-DEC-2010 23:28:33	Straylight	34.000	179	24Omi2CMa	3.0320	24000.	68	45993	No
409	GOM_NL__2PRFIN20101216_233116_000000513097_00289_45993_5423.N1	16-DEC-2010 23:31:16	Straylight	50.500	47	2Bet CMa	1.9760	28000.	101	45993	No
410	GOM_NL__2PRFIN20101216_233447_000000483097_00289_45993_5424.N1	16-DEC-2010 23:34:47	Straylight	47.500	7	19Bet Ori	0.10000	14000.	95	45993	No
411	GOM_NL__2PRFIN20101216_233700_000000483097_00289_45993_5425.N1	16-DEC-2010 23:37:00	Straylight	48.000	30	46Eps Ori	1.6940	30000.	96	45993	No
412	GOM_NL__2PRFIN20101216_234005_000000593097_00289_45993_5426.N1	16-DEC-2010 23:40:05	Twi_and_stray	59.000	14	58Alp Ori	0.87000	3000.0	118	45993	No
413	GOM_NL__2PRFIN20101216_234205_000000473097_00289_45993_5427.N1	16-DEC-2010 23:42:05	Twi_and_stray	46.500	13	87Alp Tau	0.86700	3800.0	93	45993	No
414	GOM_NL__2PRFIN20101216_234414_000000423097_00289_45993_5428.N1	16-DEC-2010 23:44:14	Bright	42.000	176	23Zet Tau	3.0200	22000.	84	45993	No
415	GOM_NL__2PRFIN20101216_234617_000000443097_00289_45993_5429.N1	16-DEC-2010 23:46:17	Bright	43.500	28	12Bet Tau	1.6500	15200.	87	45993	No
416	GOM_NL__2PRFIN20101216_234949_000000443097_00289_45993_5430.N1	16-DEC-2010 23:49:49	Bright	44.000	107	37The Aur	2.6490	11000.	88	45993	No
417	GOM_NL__2PRFIN20101216_235159_000000443097_00289_45993_5431.N1	16-DEC-2010 23:51:59	Bright	43.500	42	34Bet Aur	1.9000	10200.	87	45993	No

3. Quality information per product

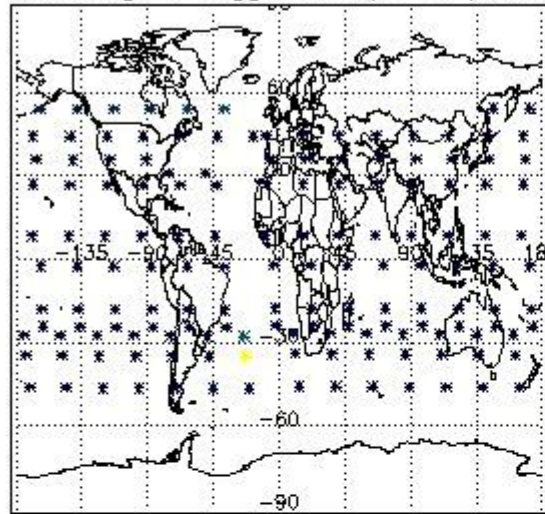
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

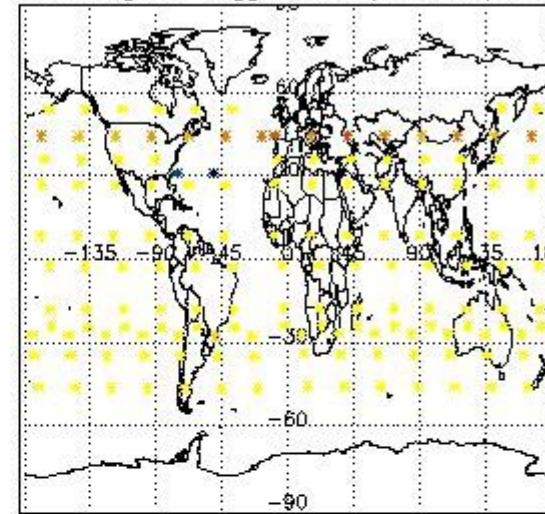


3.2 Plot quality information per product (world map)

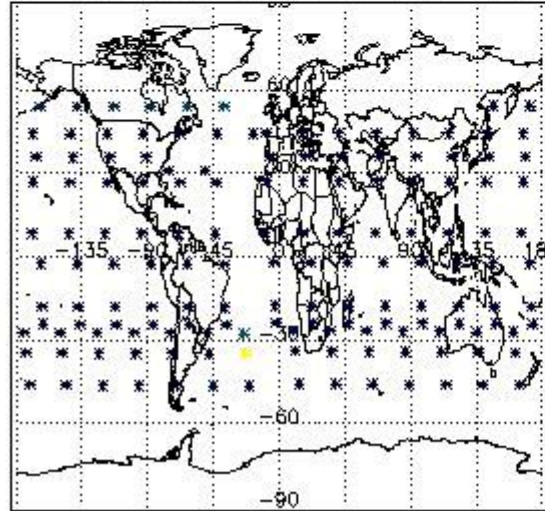
Percentage of flagged data per O3 profile



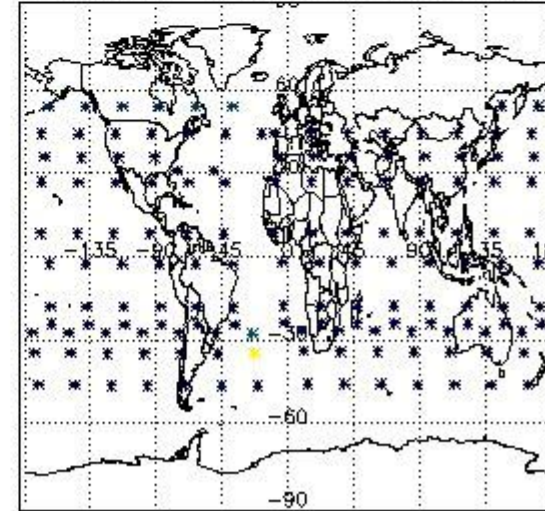
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

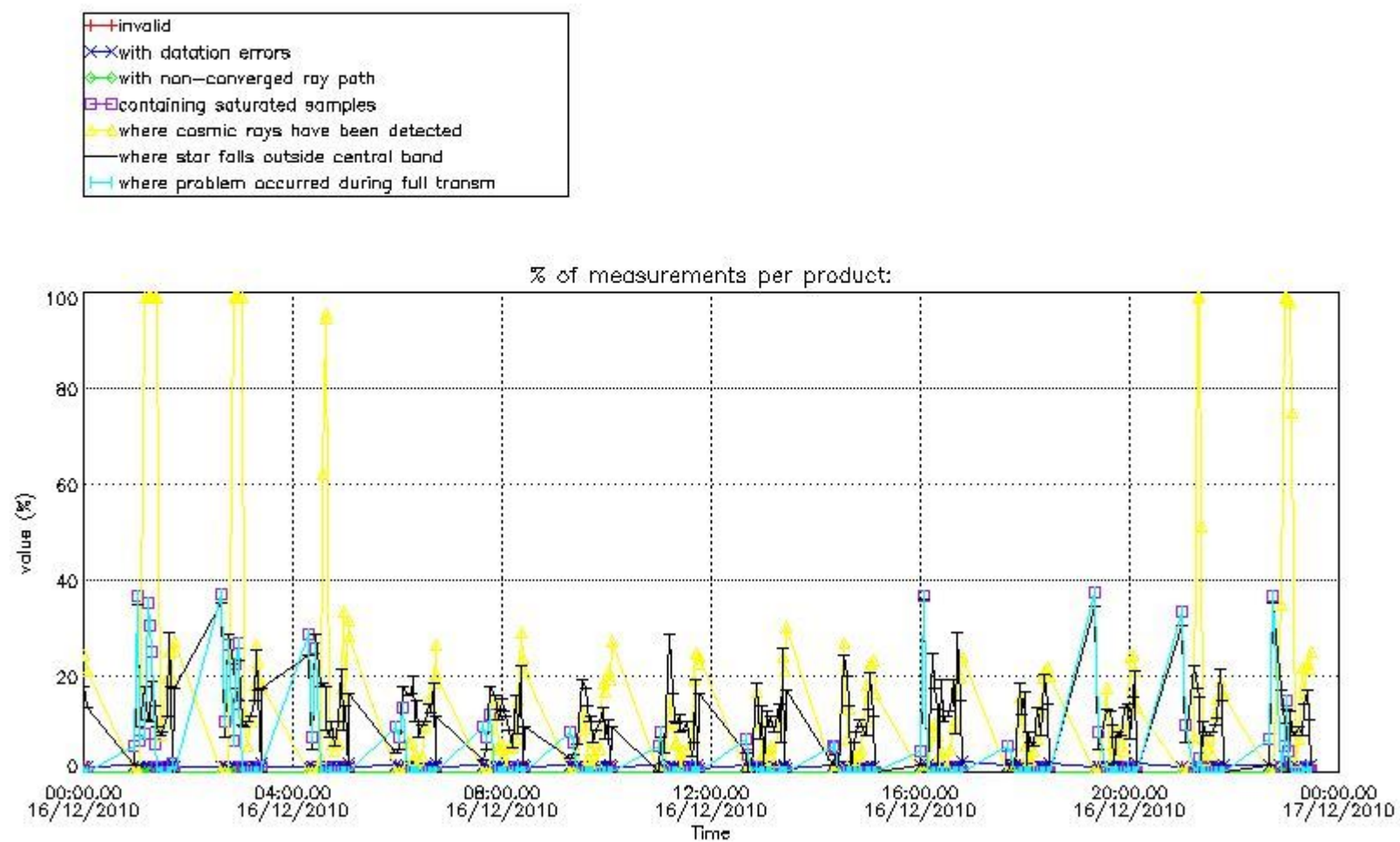


4. Level 1 quality information per product

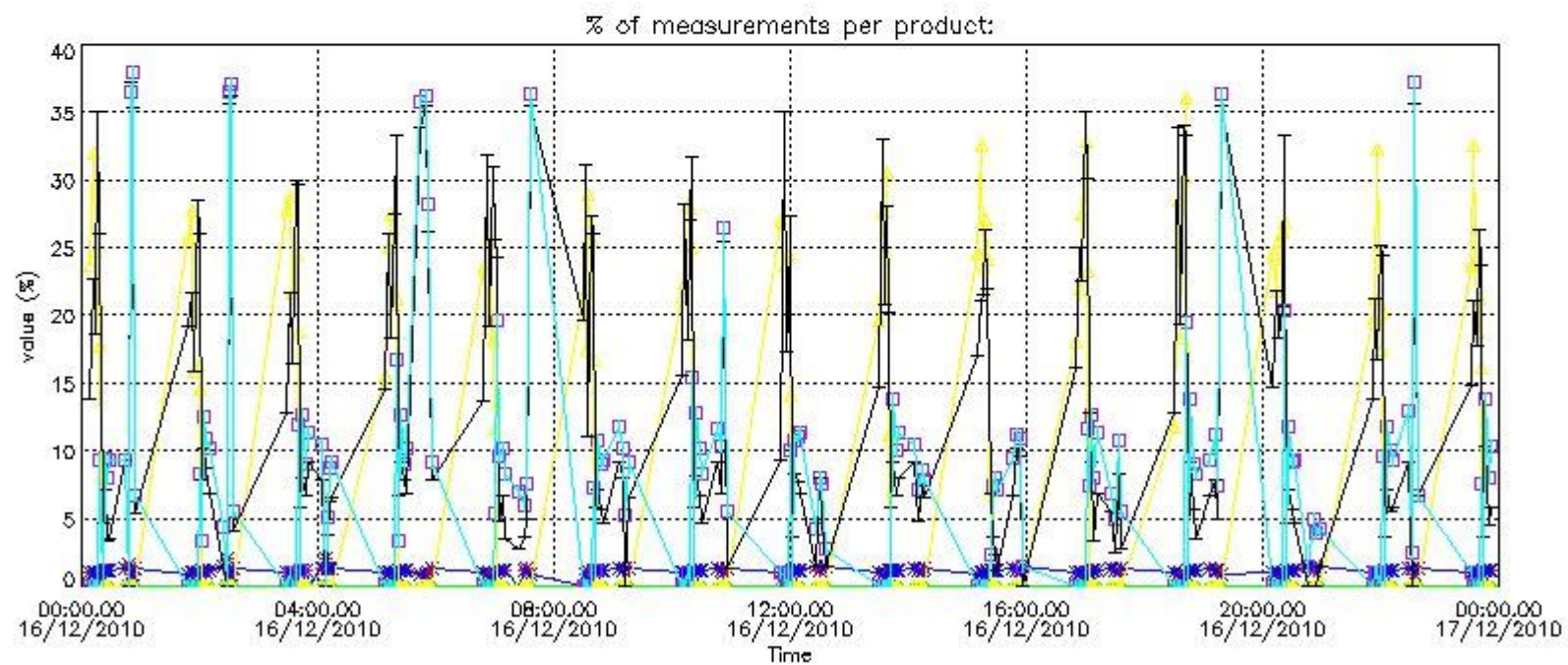
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



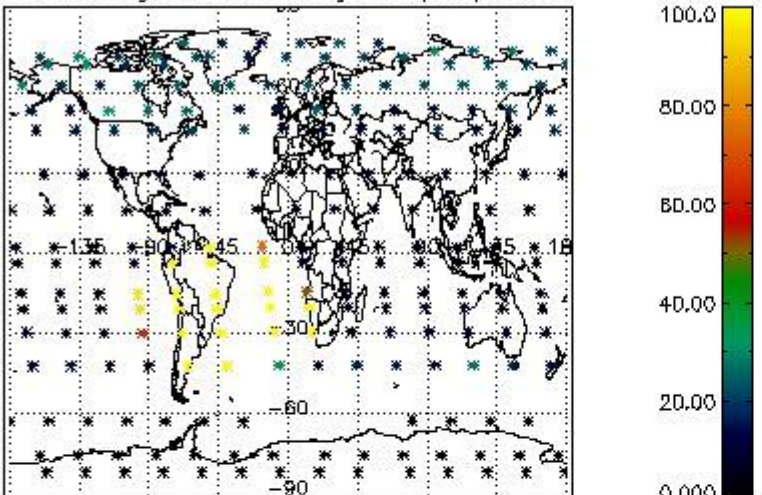
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



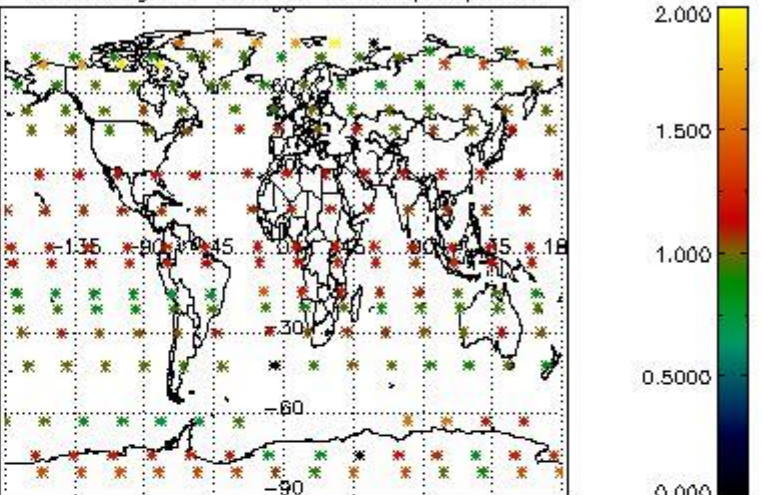
4.2 Plot quality information per product coming from level 1b processing (world map)

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

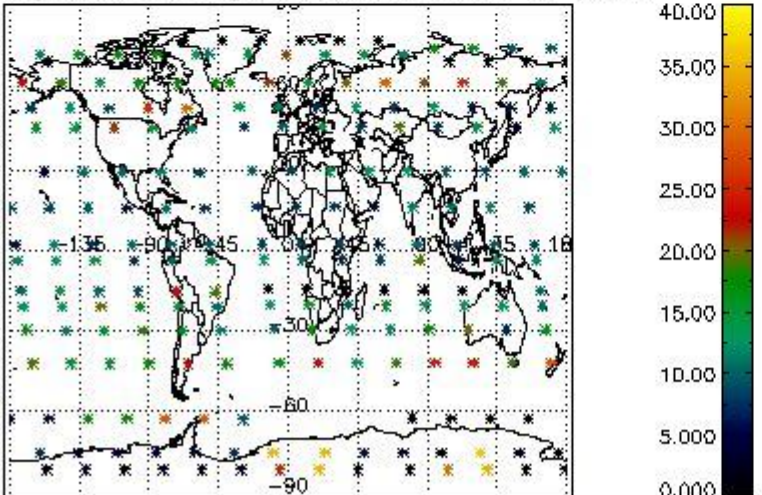
Percentage of cosmic ray hits per profile



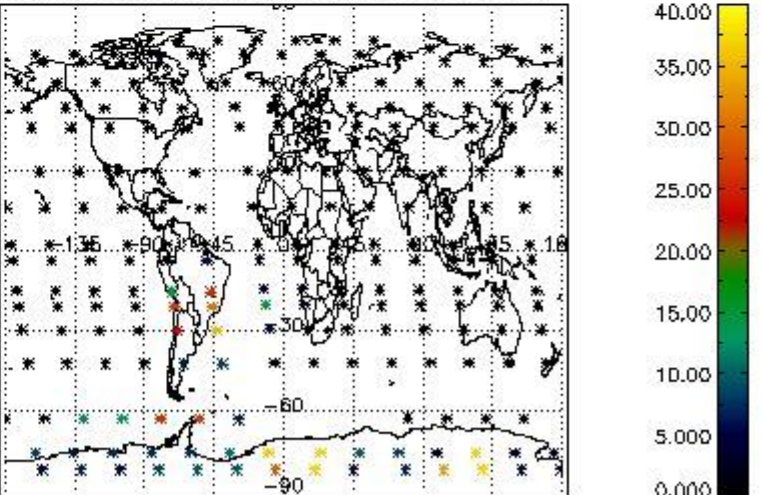
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

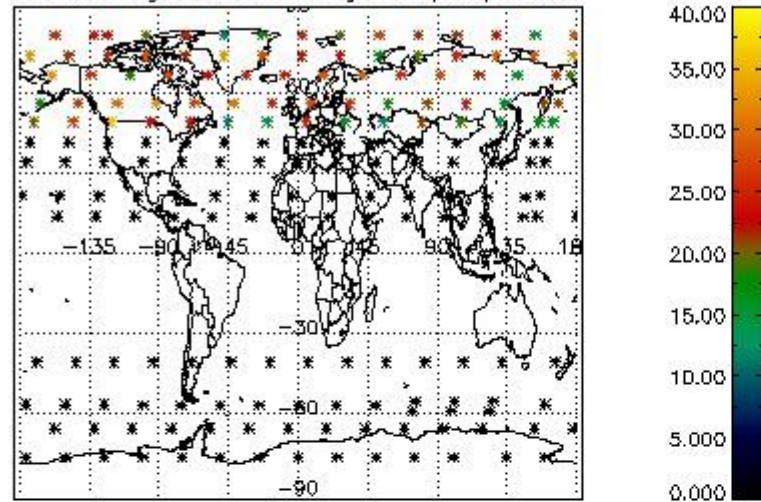


Percentage of saturation errors per profile

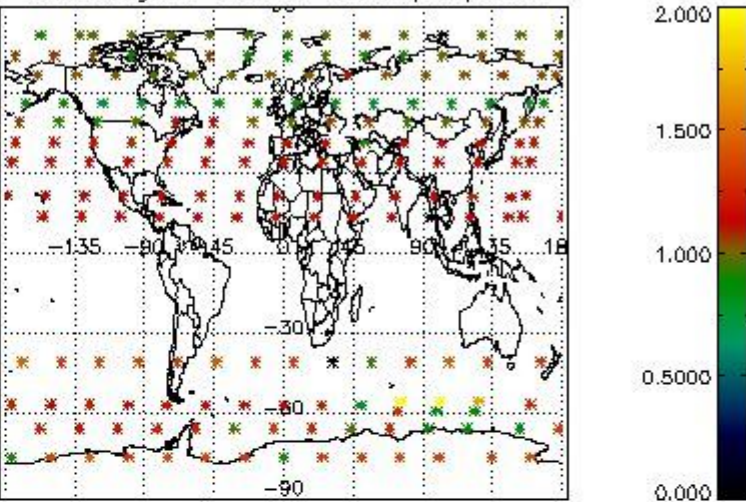


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

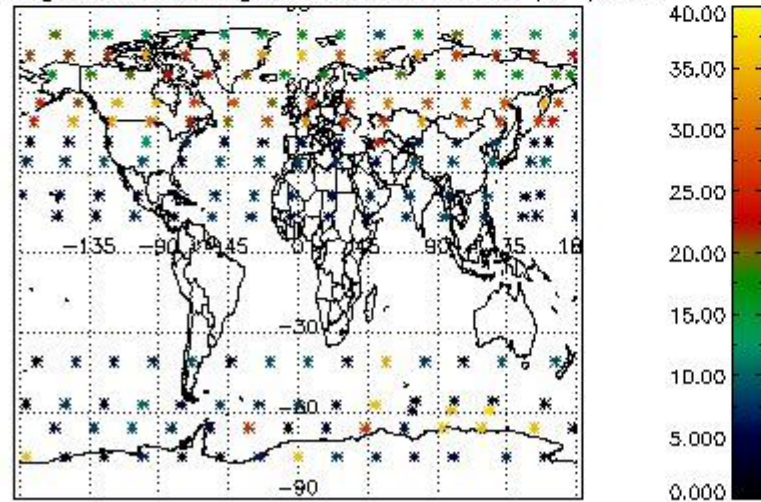
Percentage of cosmic ray hits per profile



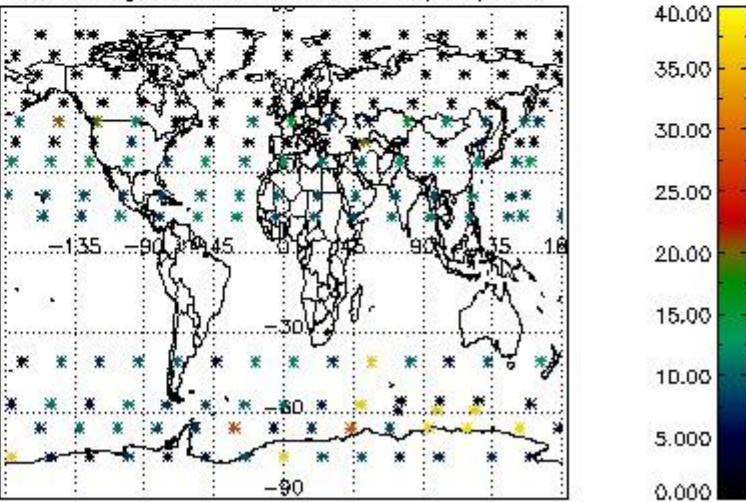
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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

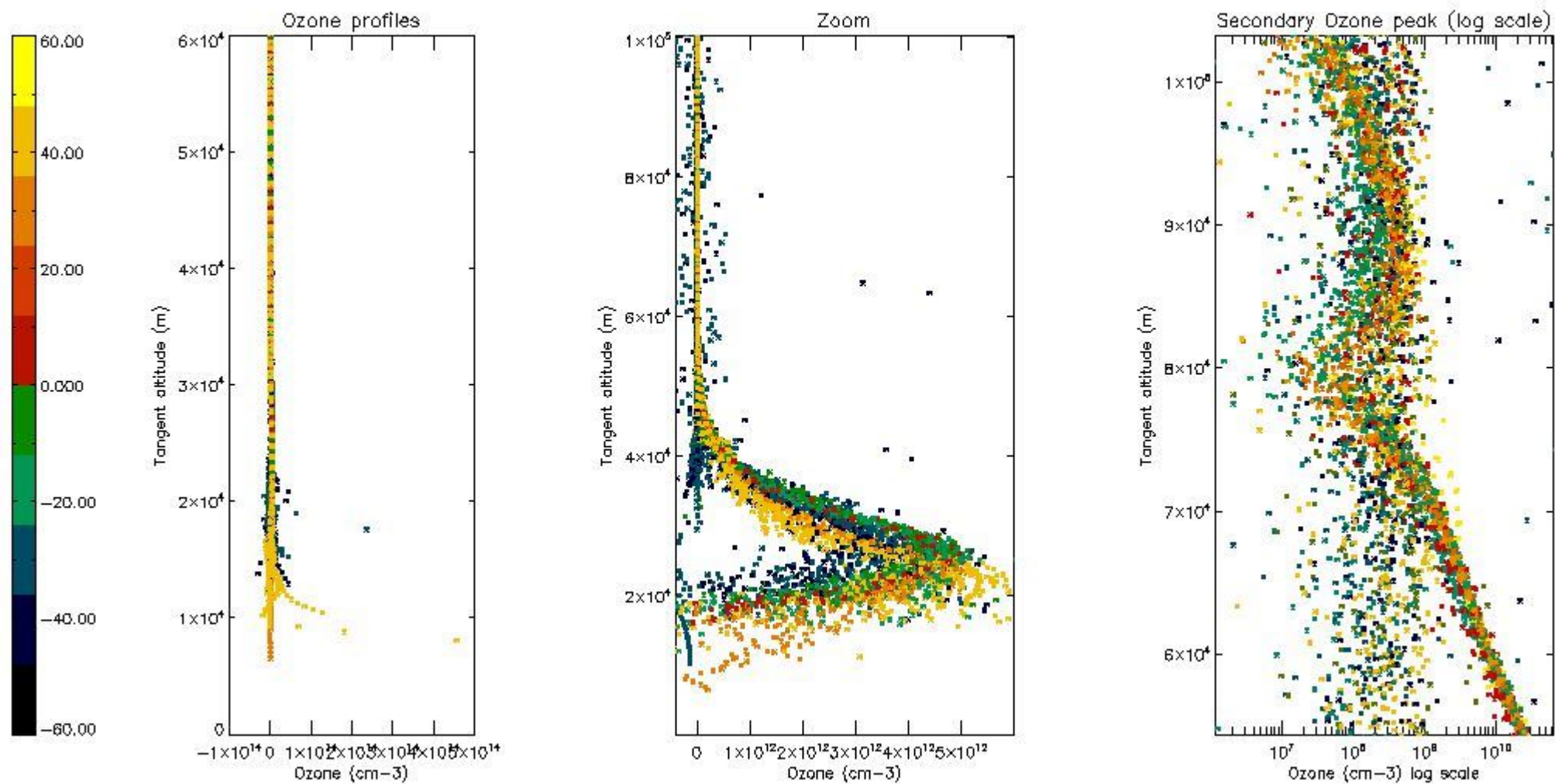
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	36
STD < 20	14

STD < 10	10
STD < 5	5

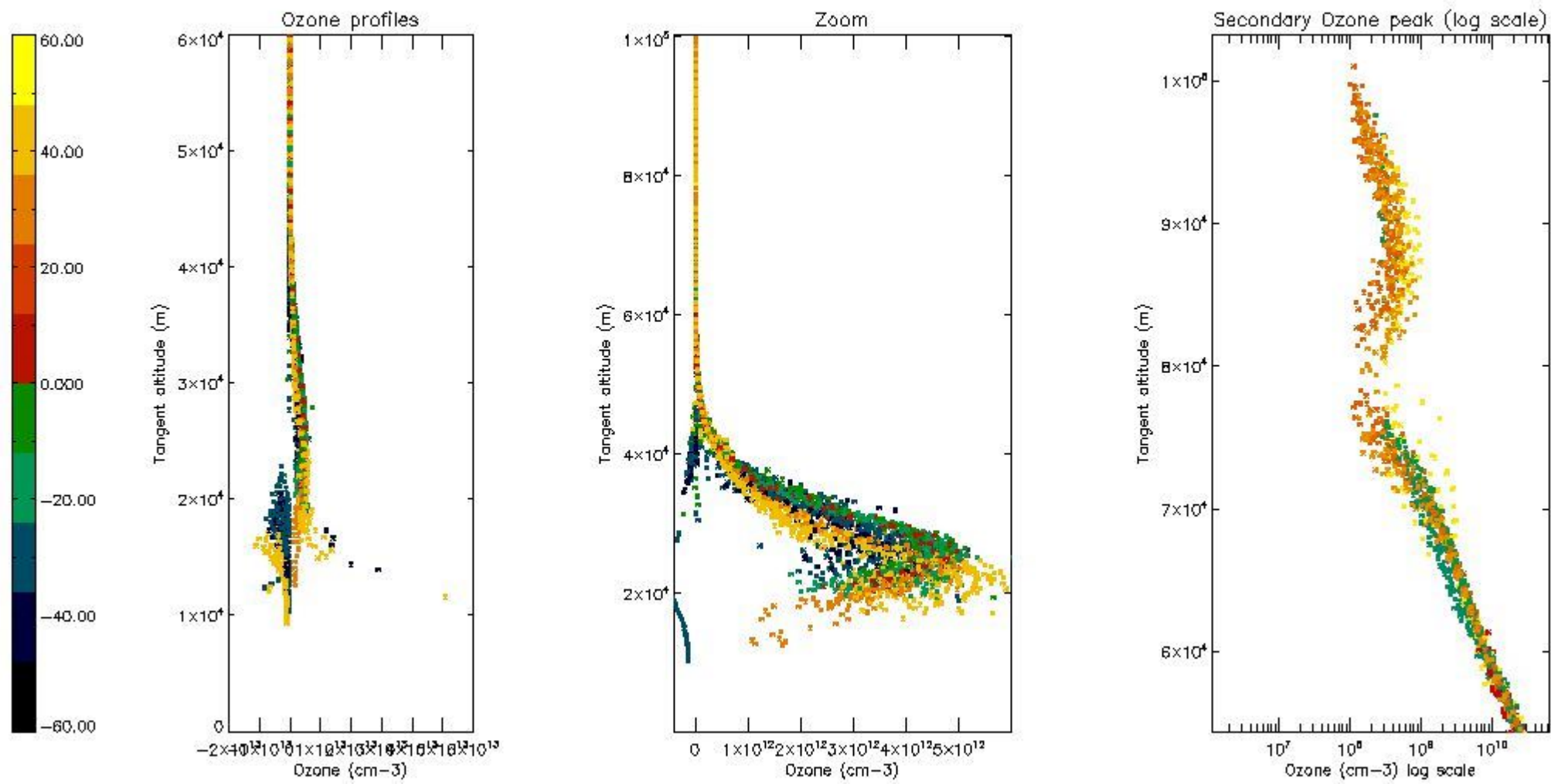
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



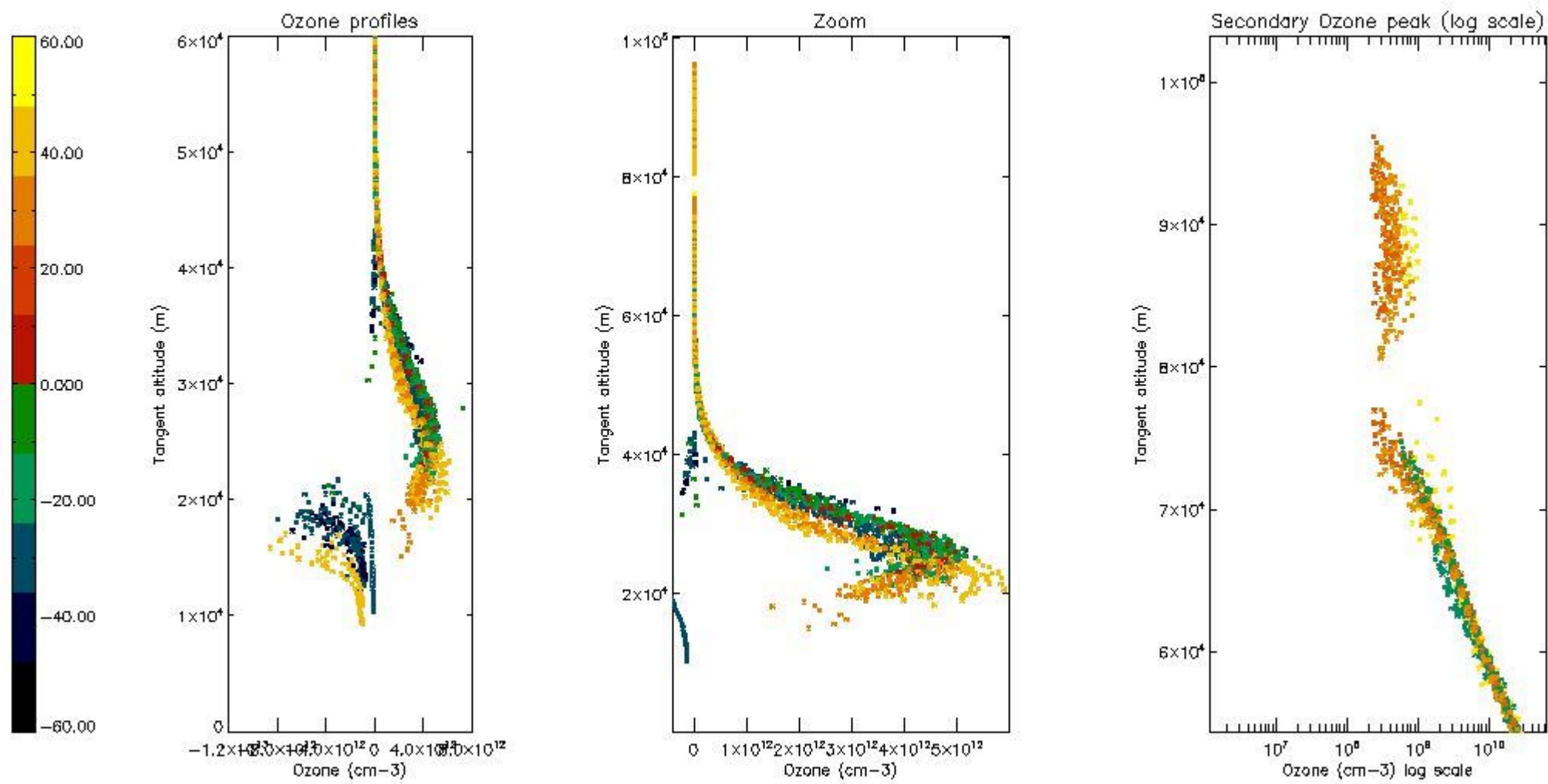
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



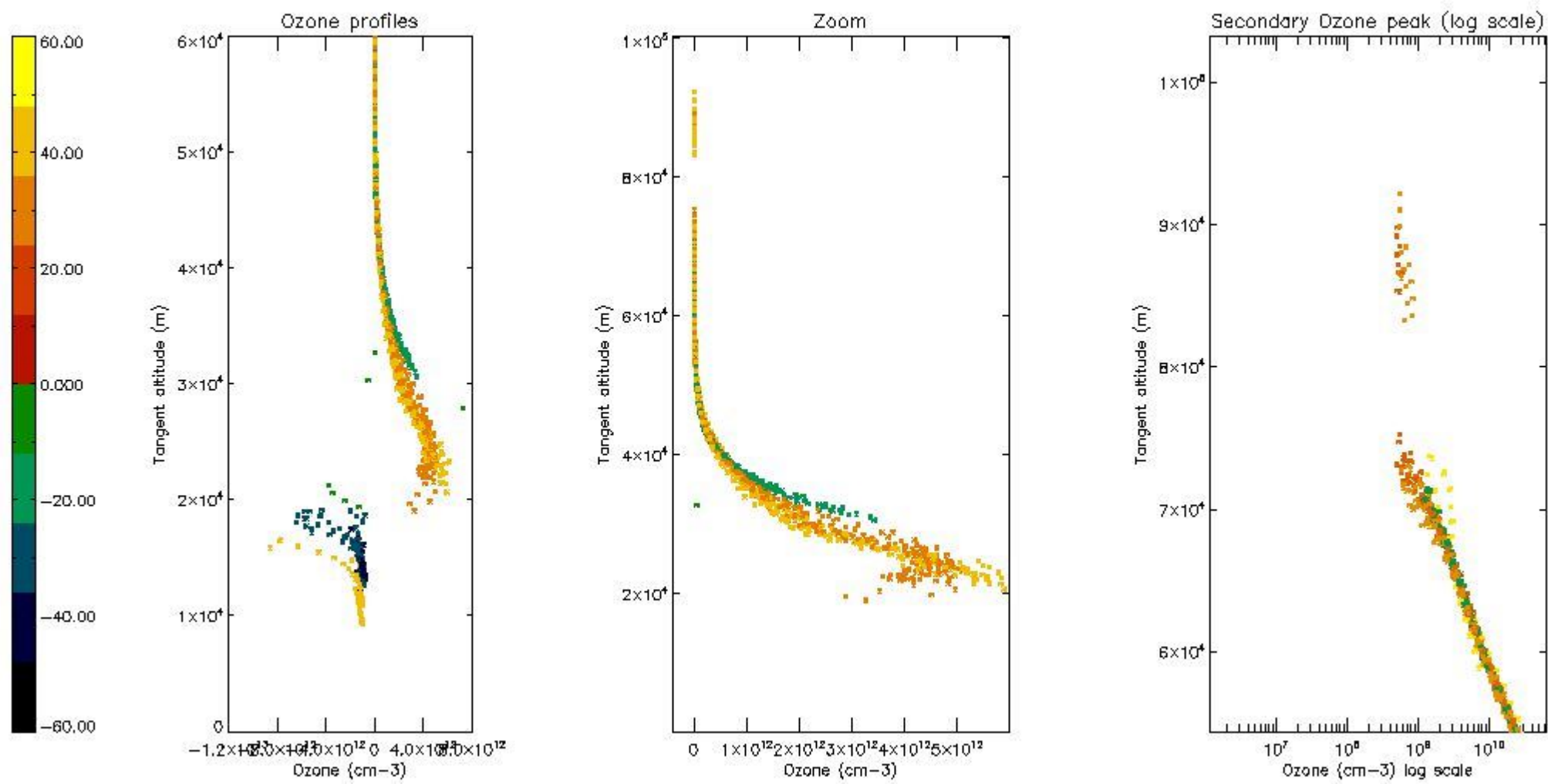
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



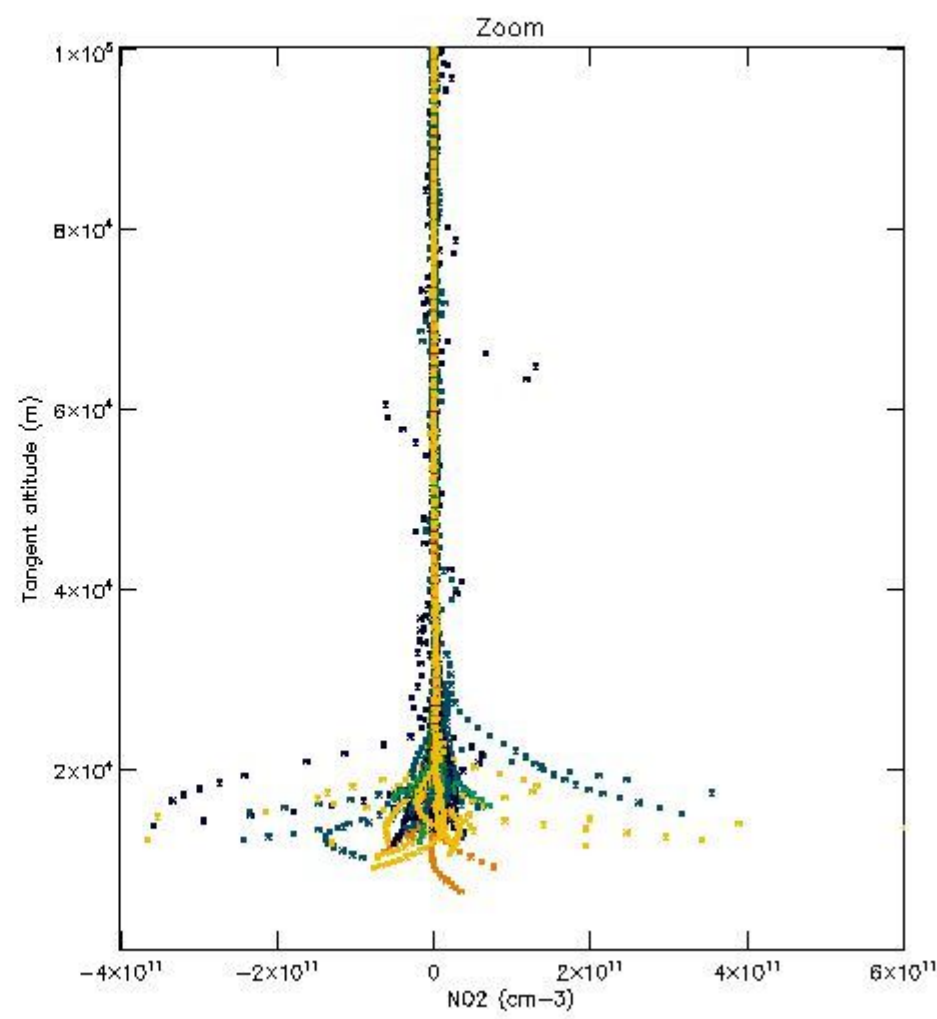
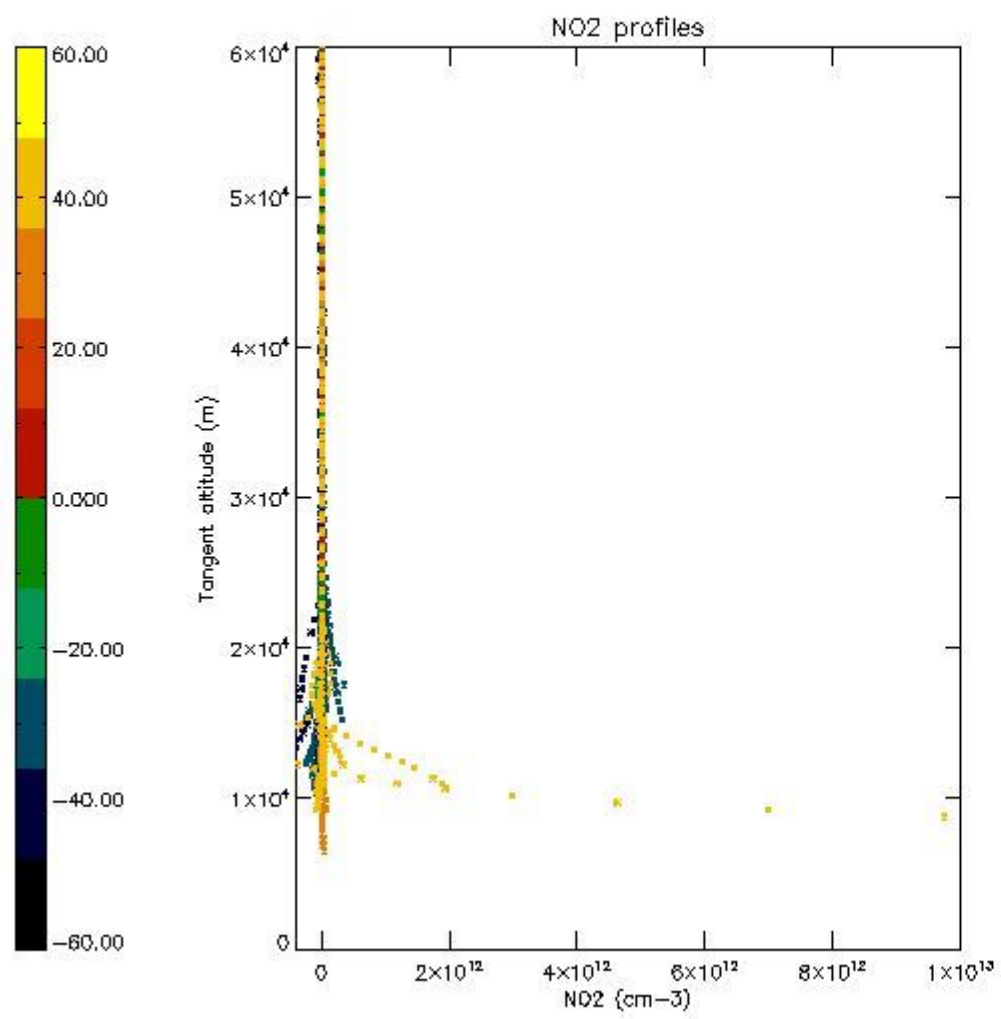
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



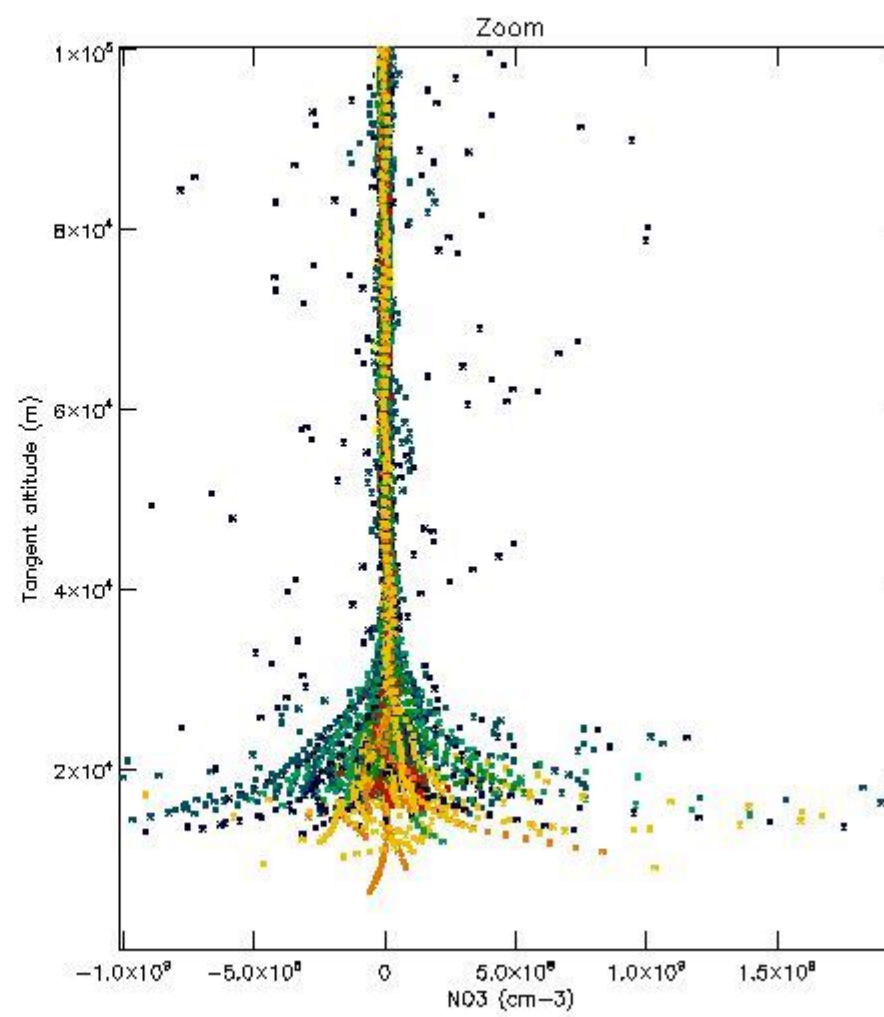
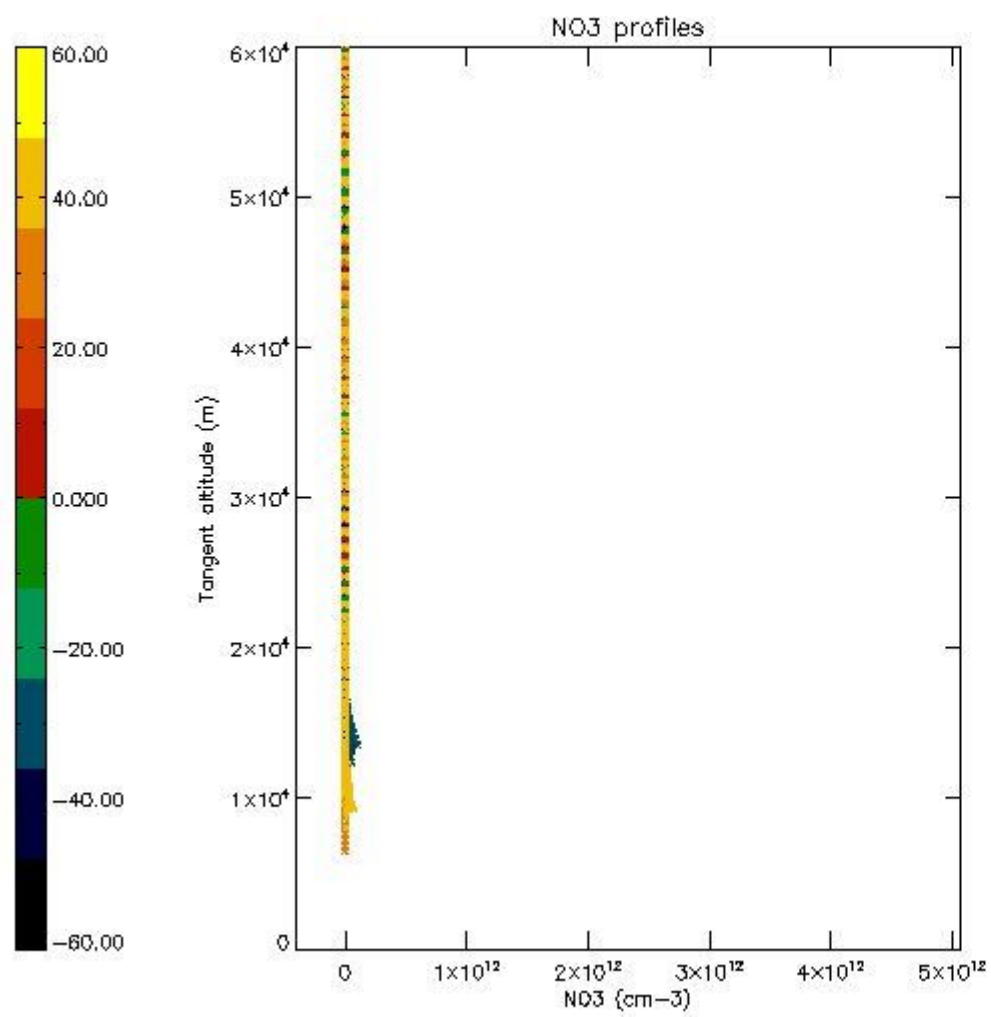
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



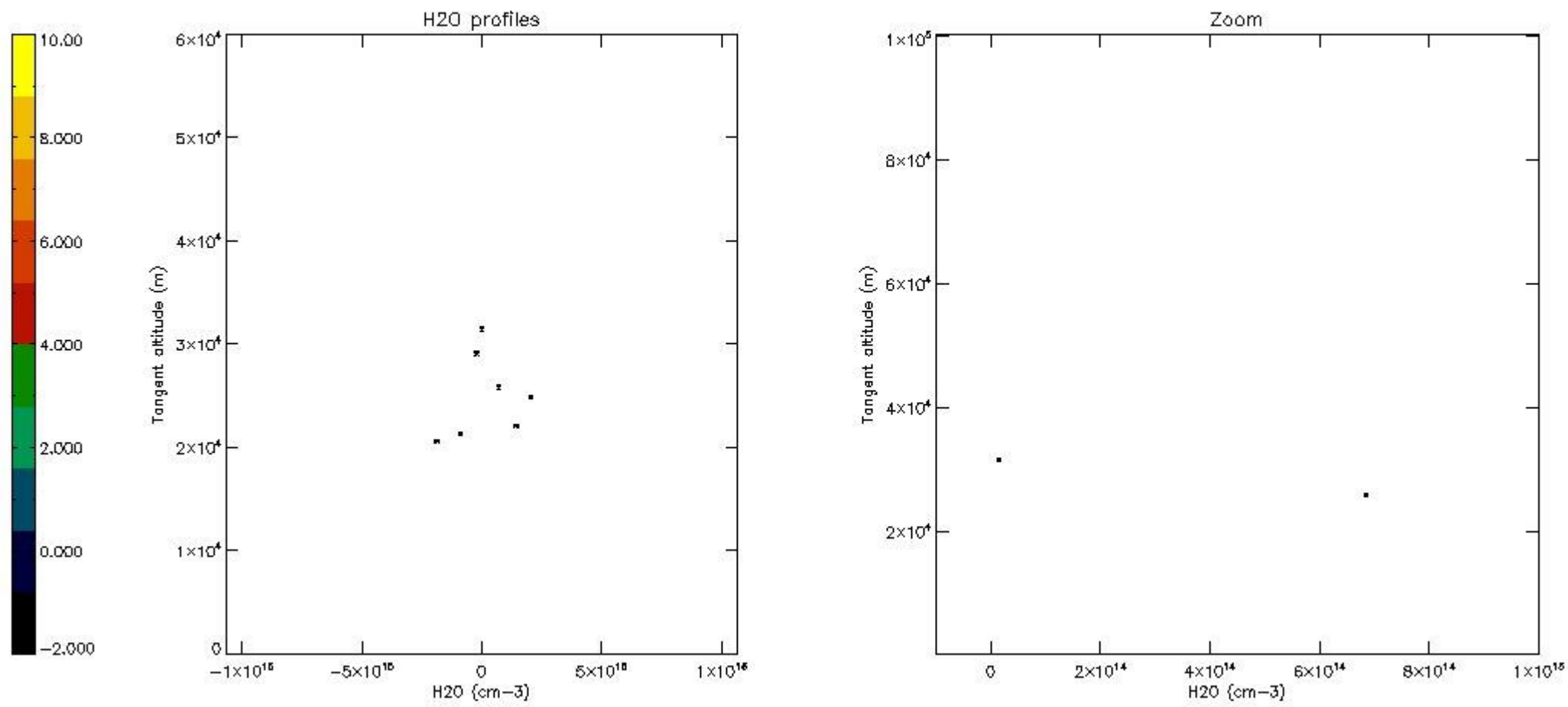
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

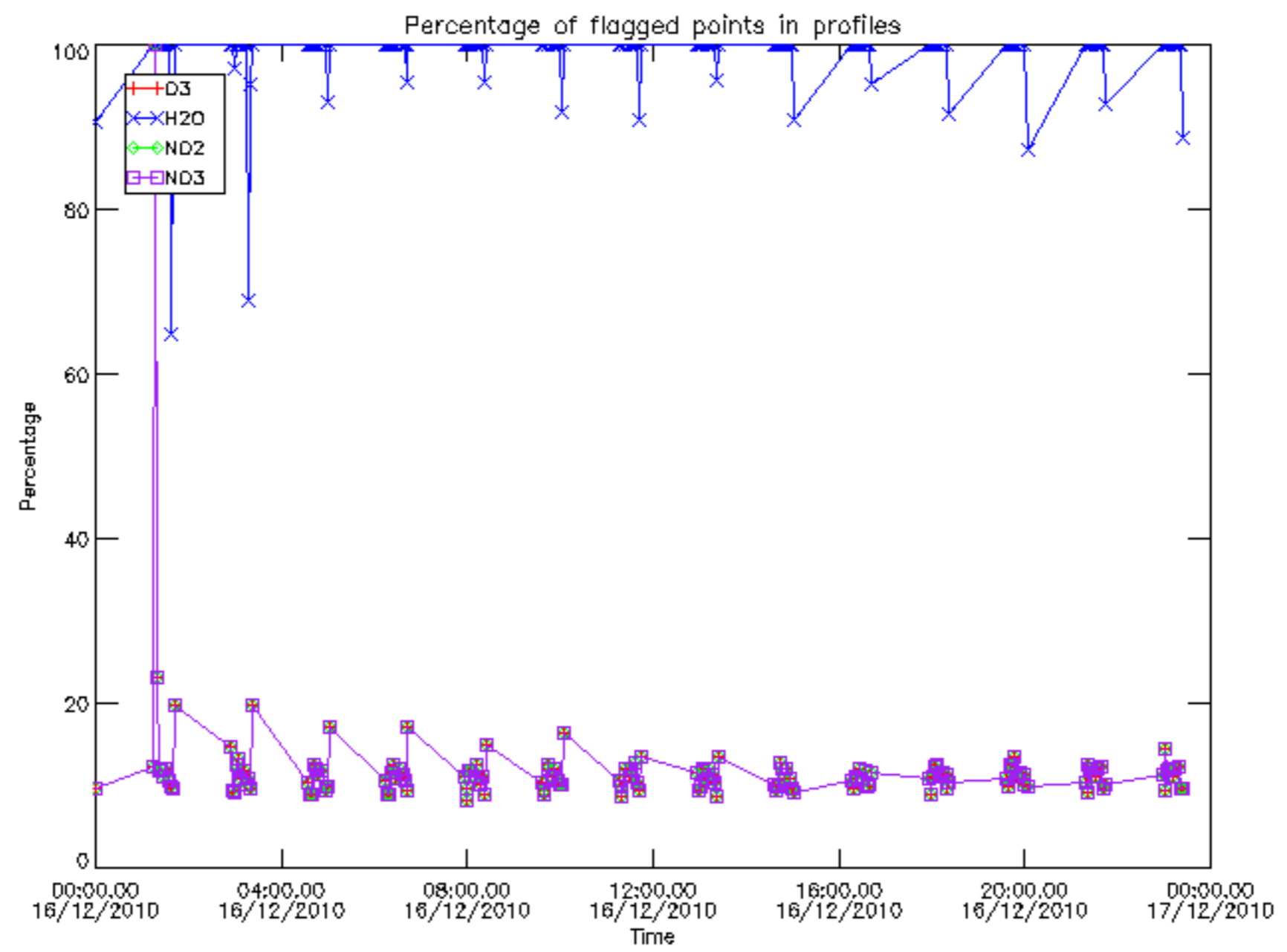
The colorbar represents the latitude.



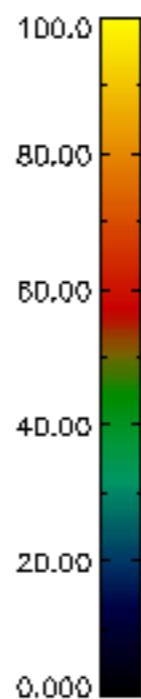
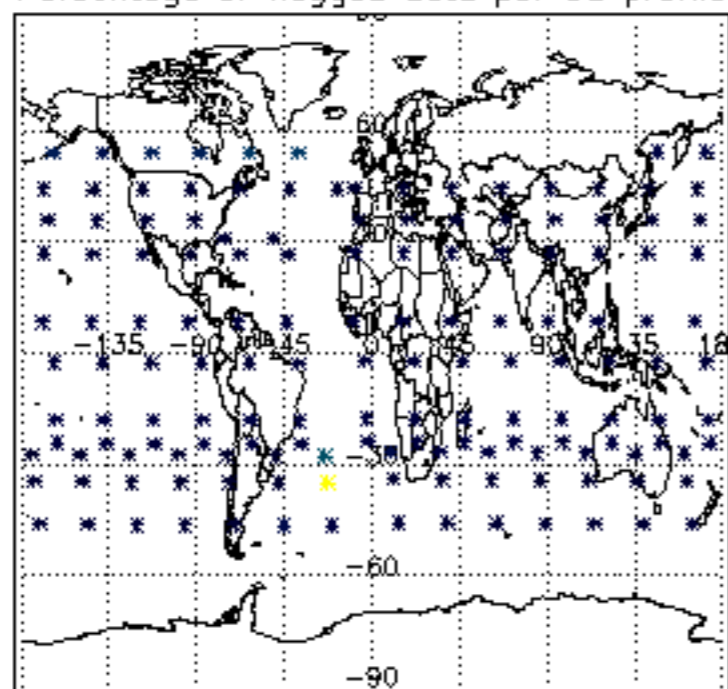
6. Auxiliary Data Files used for the production reported in section 2

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

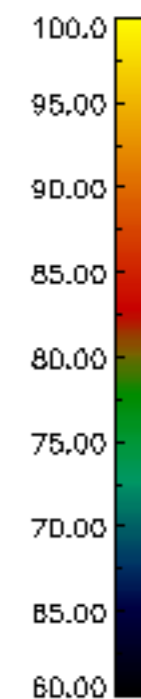
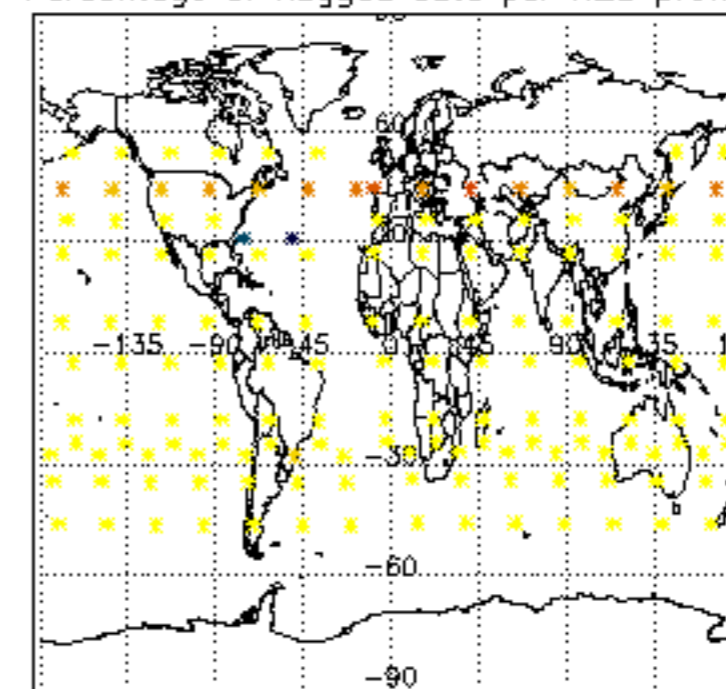
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	16-DEC-2010 00:00:10
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	16-DEC-2010 00:00:10
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	16-DEC-2010 00:00:10



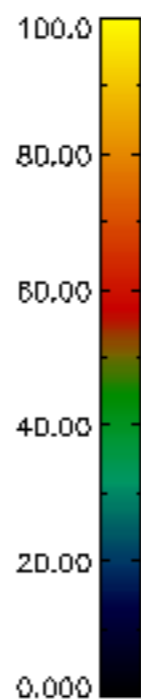
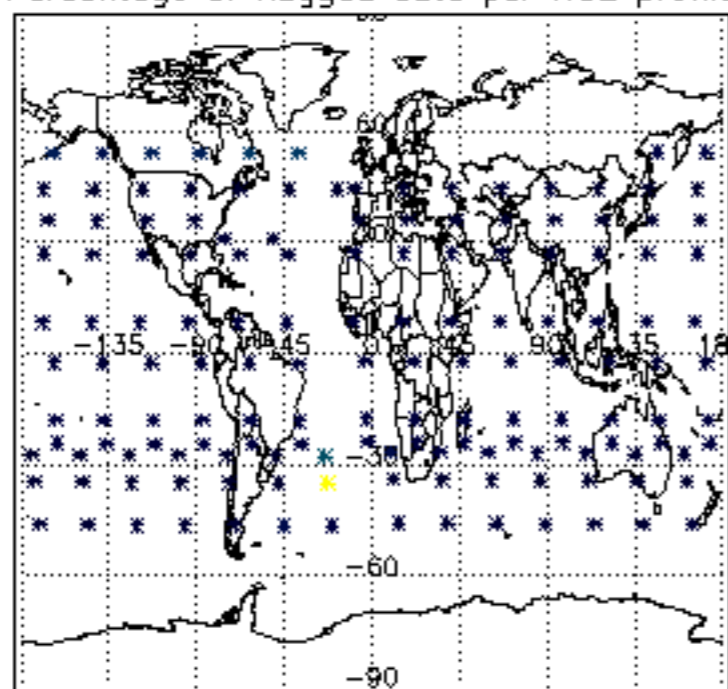
Percentage of flagged data per D3 profile



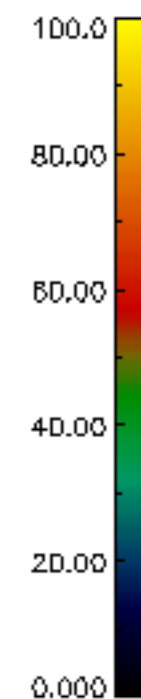
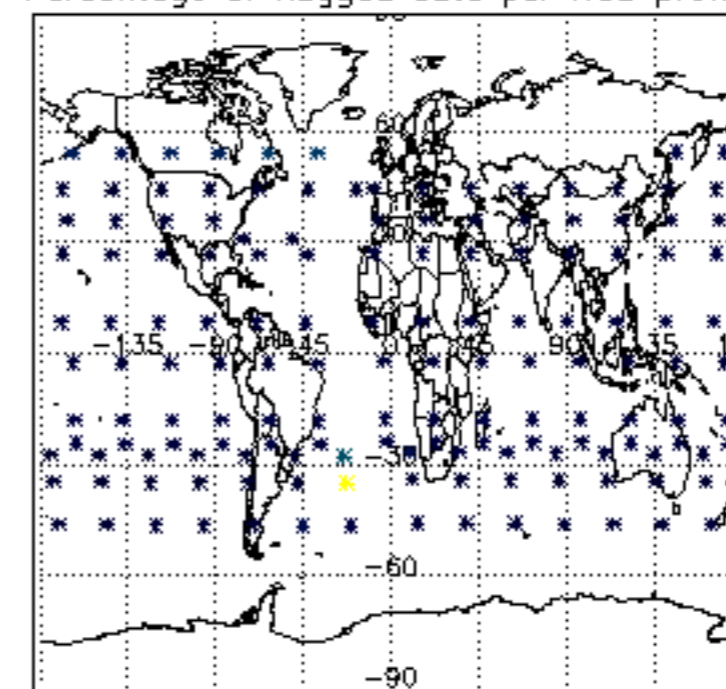
Percentage of flagged data per H2O profile

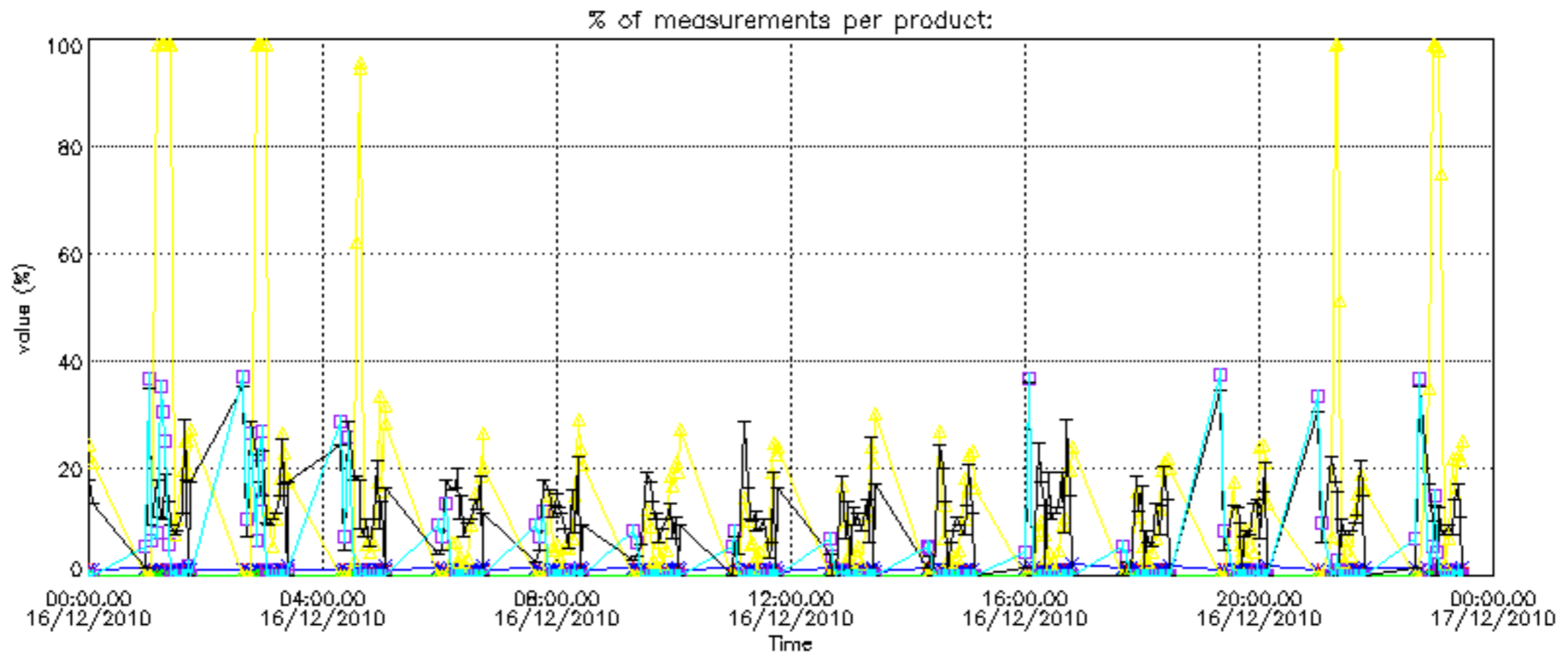


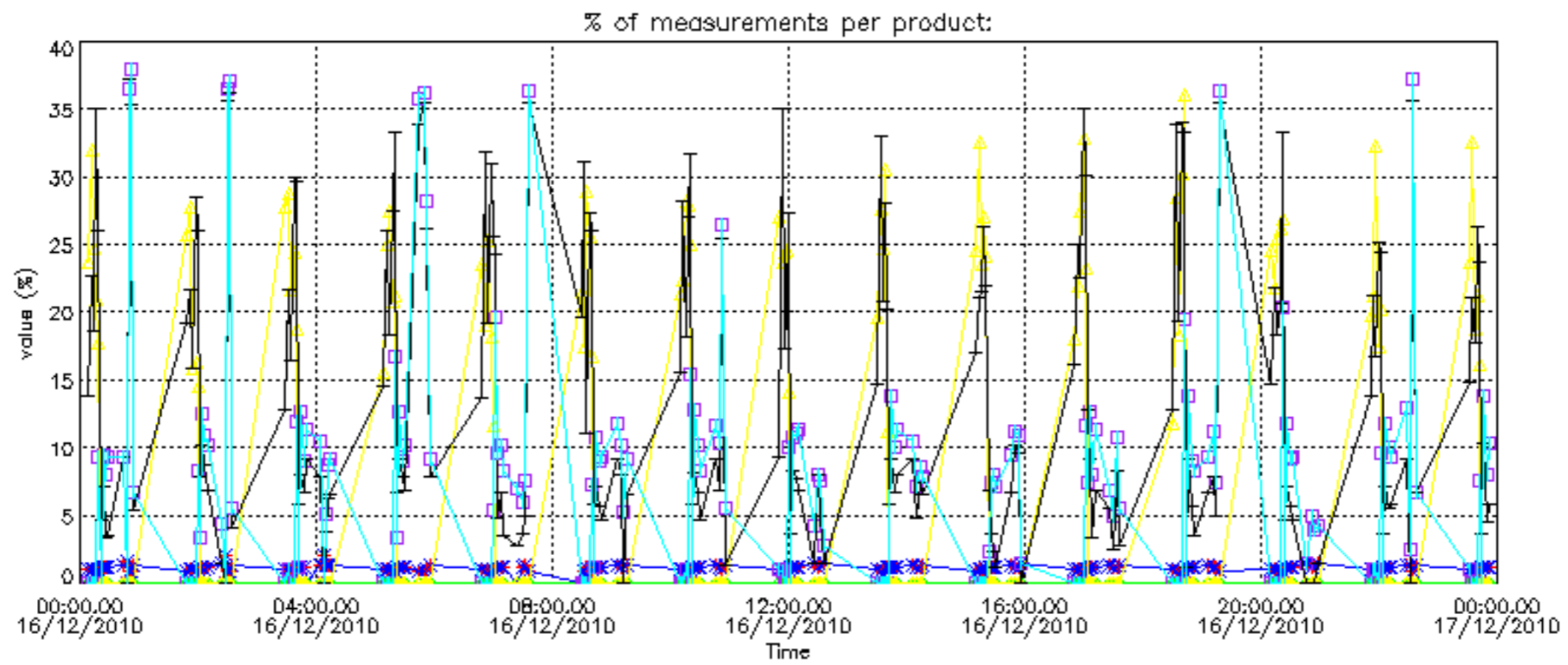
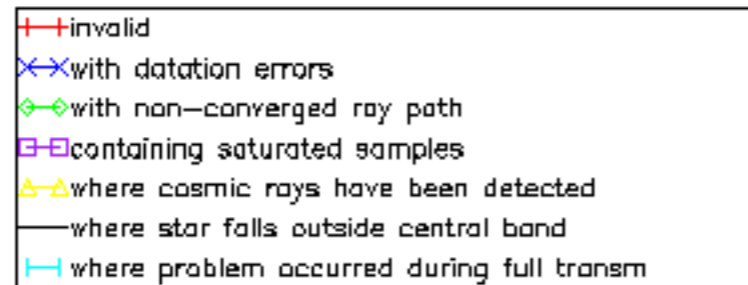
Percentage of flagged data per NO2 profile



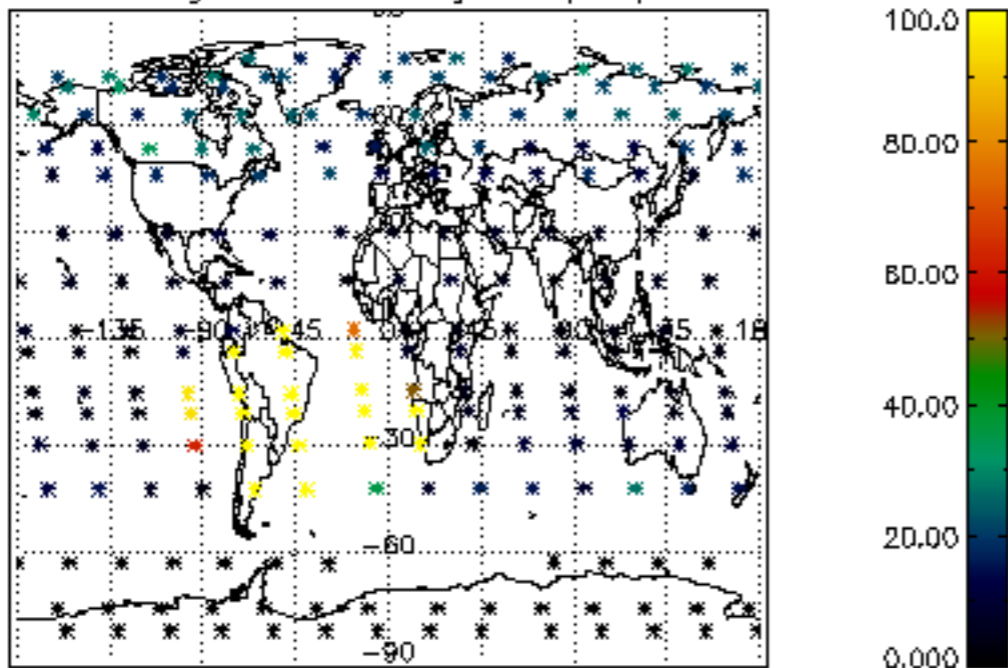
Percentage of flagged data per NO3 profile



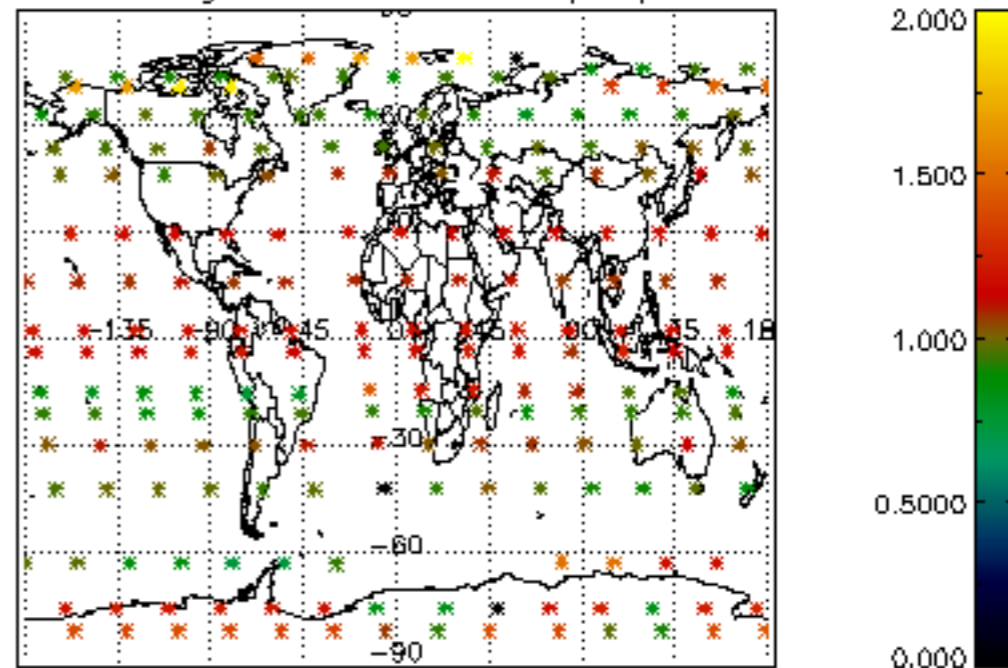




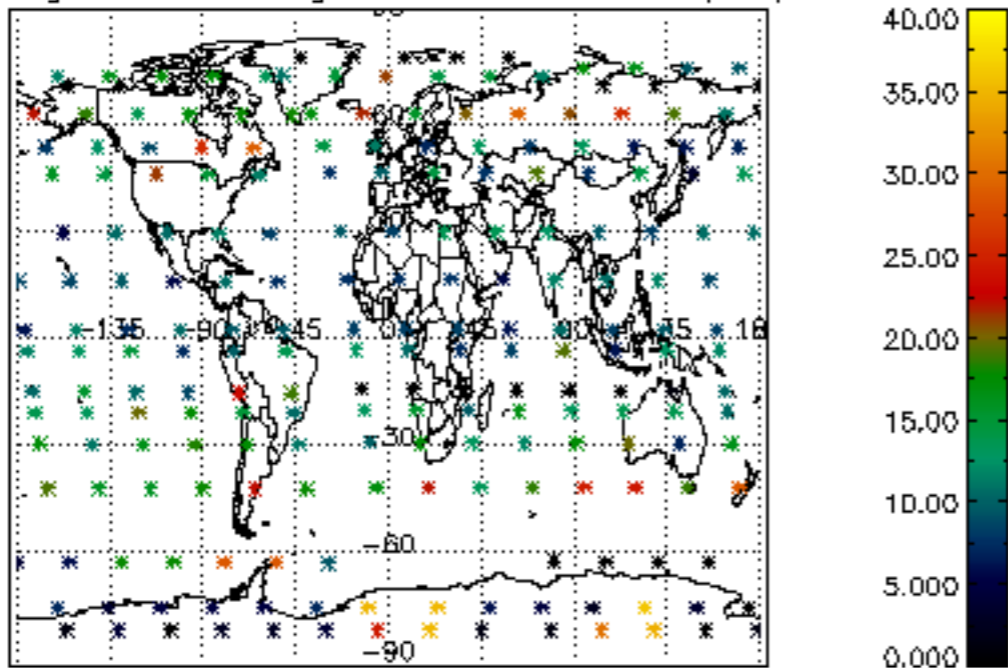
Percentage of cosmic ray hits per profile



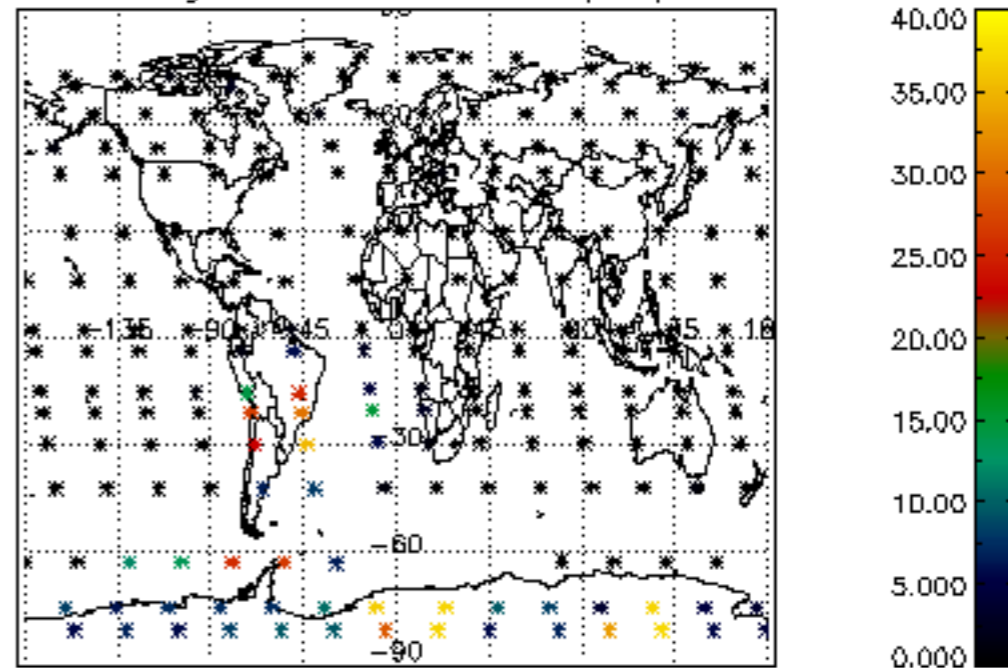
Percentage of datation errors per profile



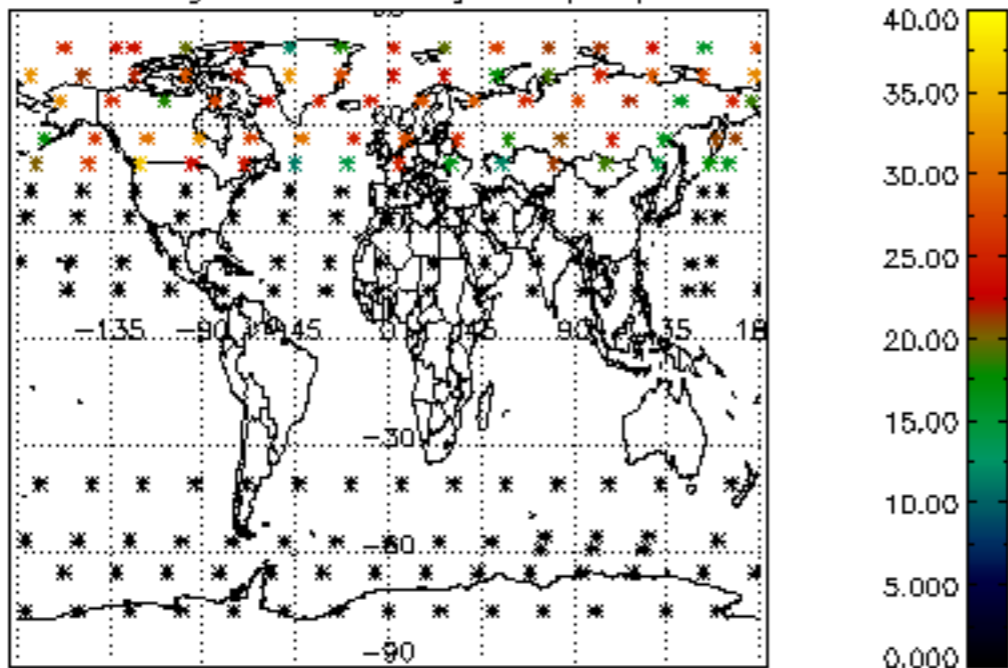
Percentage of star falling outside central band per profile



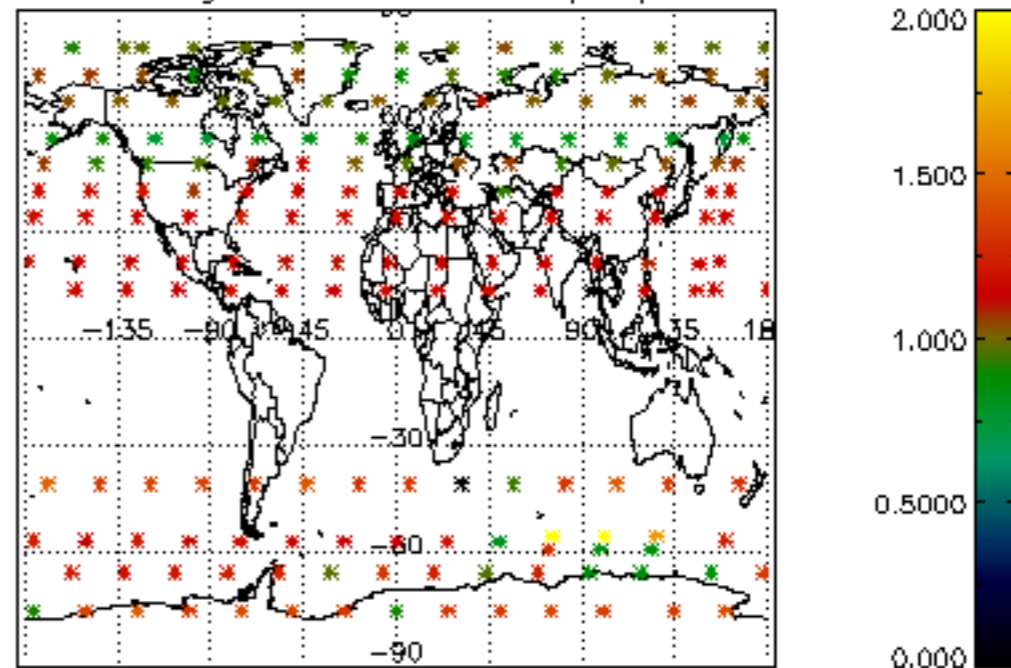
Percentage of saturation errors per profile



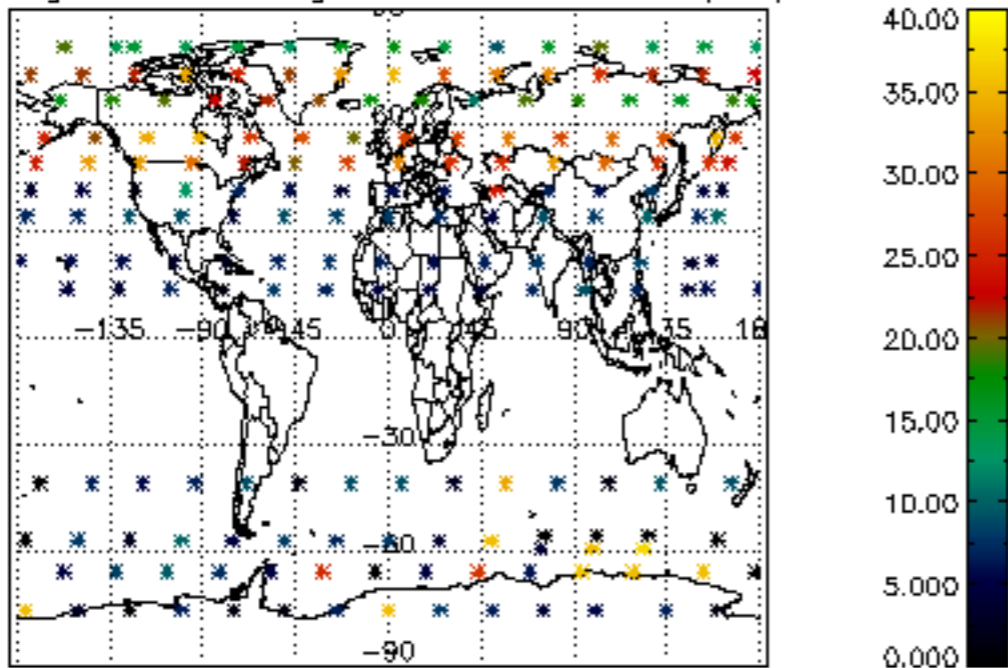
Percentage of cosmic ray hits per profile



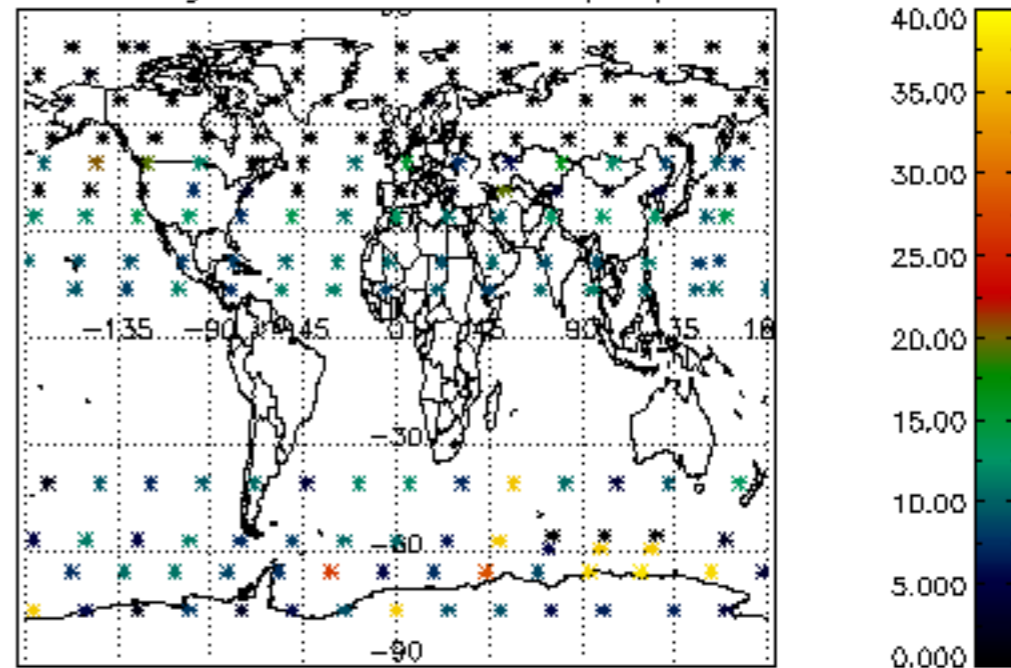
Percentage of datation errors per profile

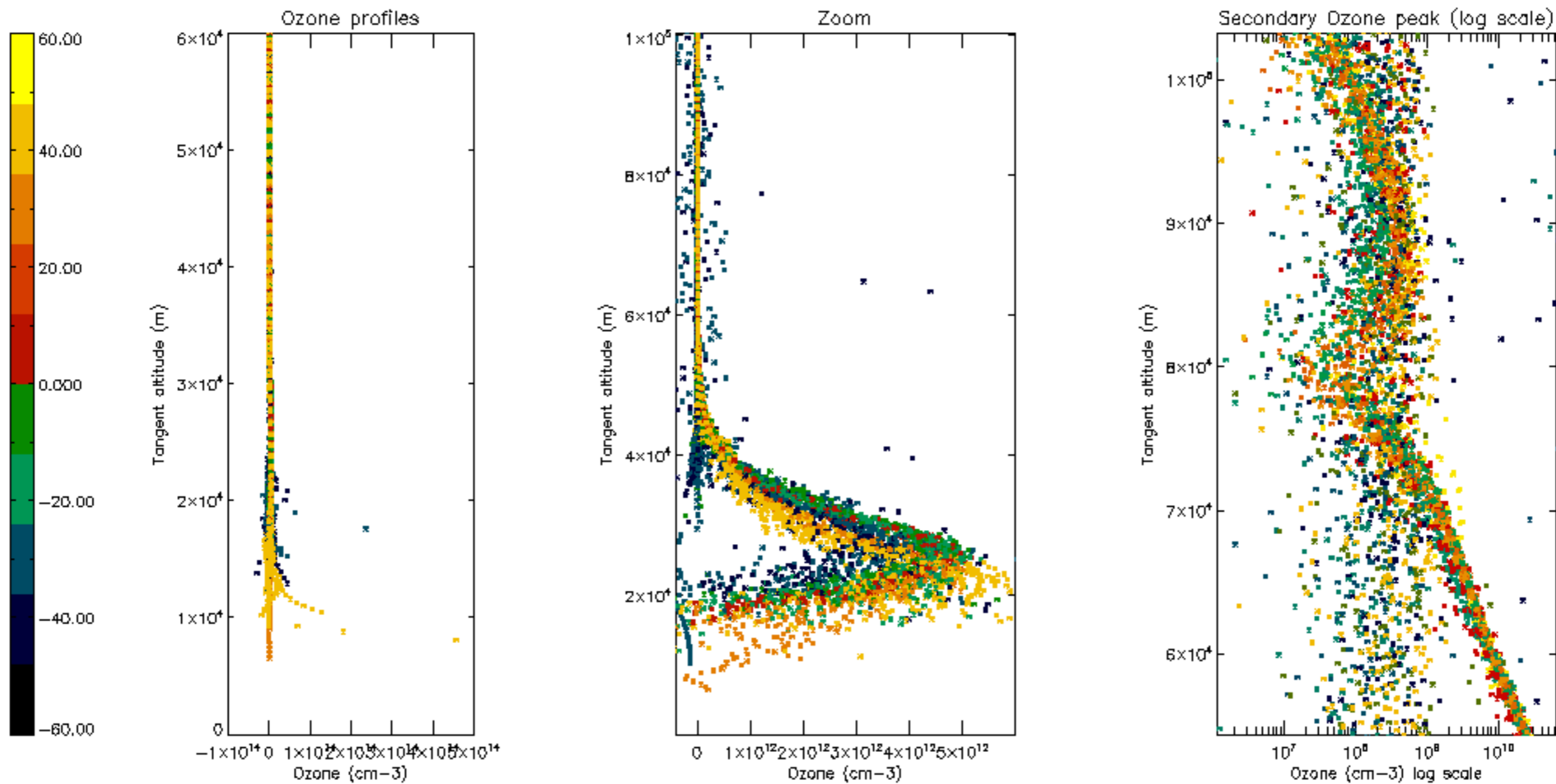


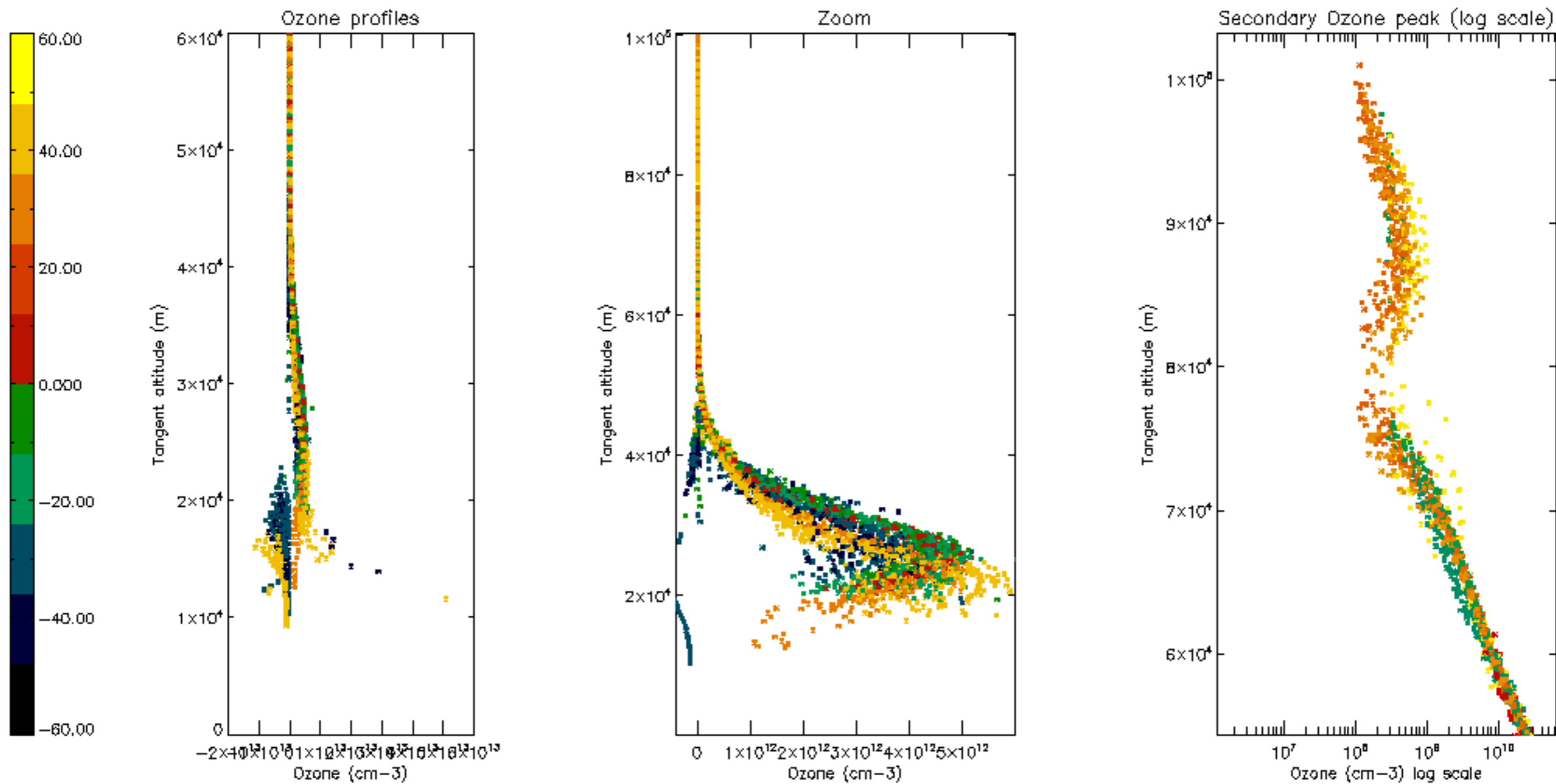
Percentage of star falling outside central band per profile

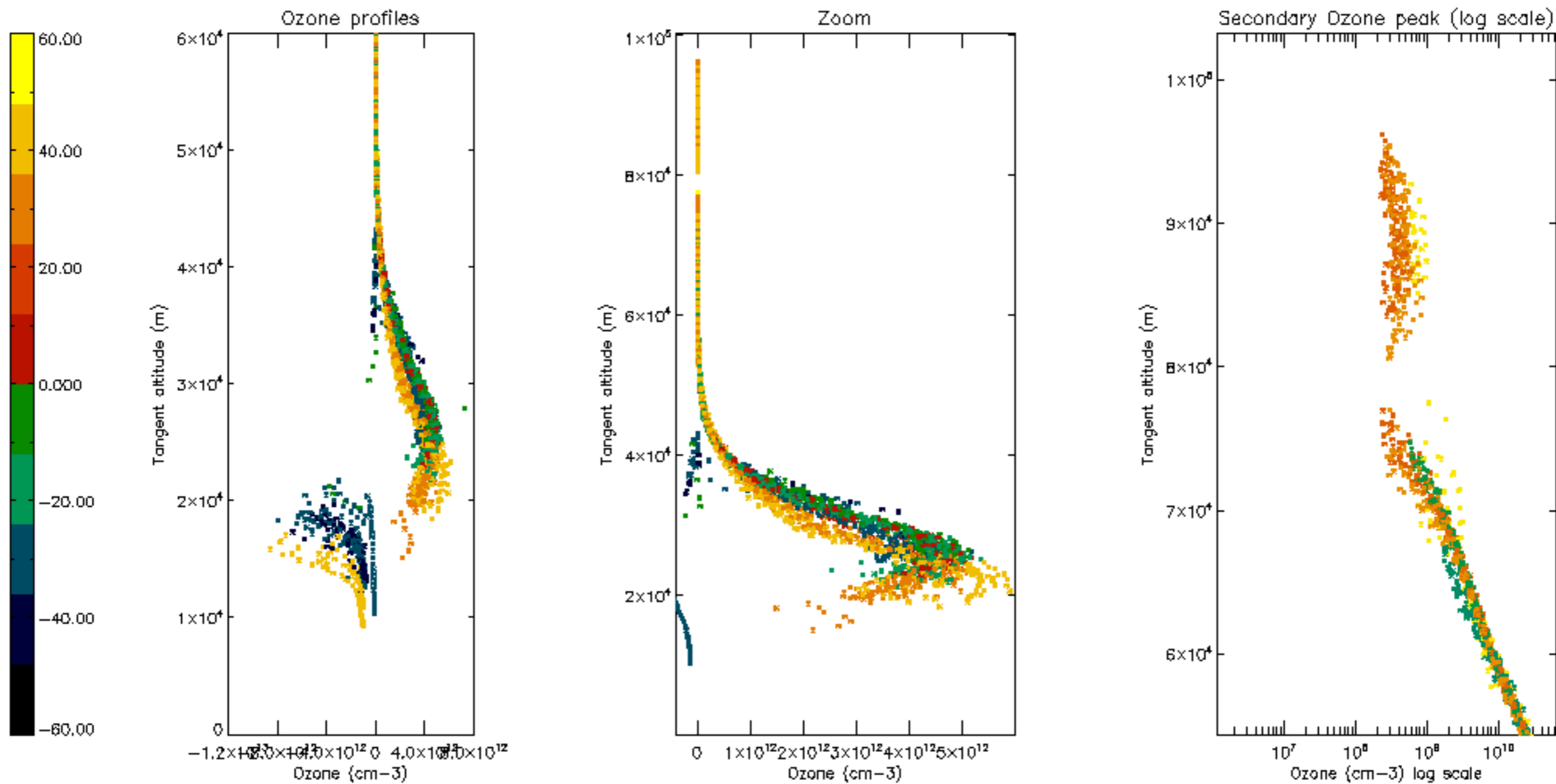


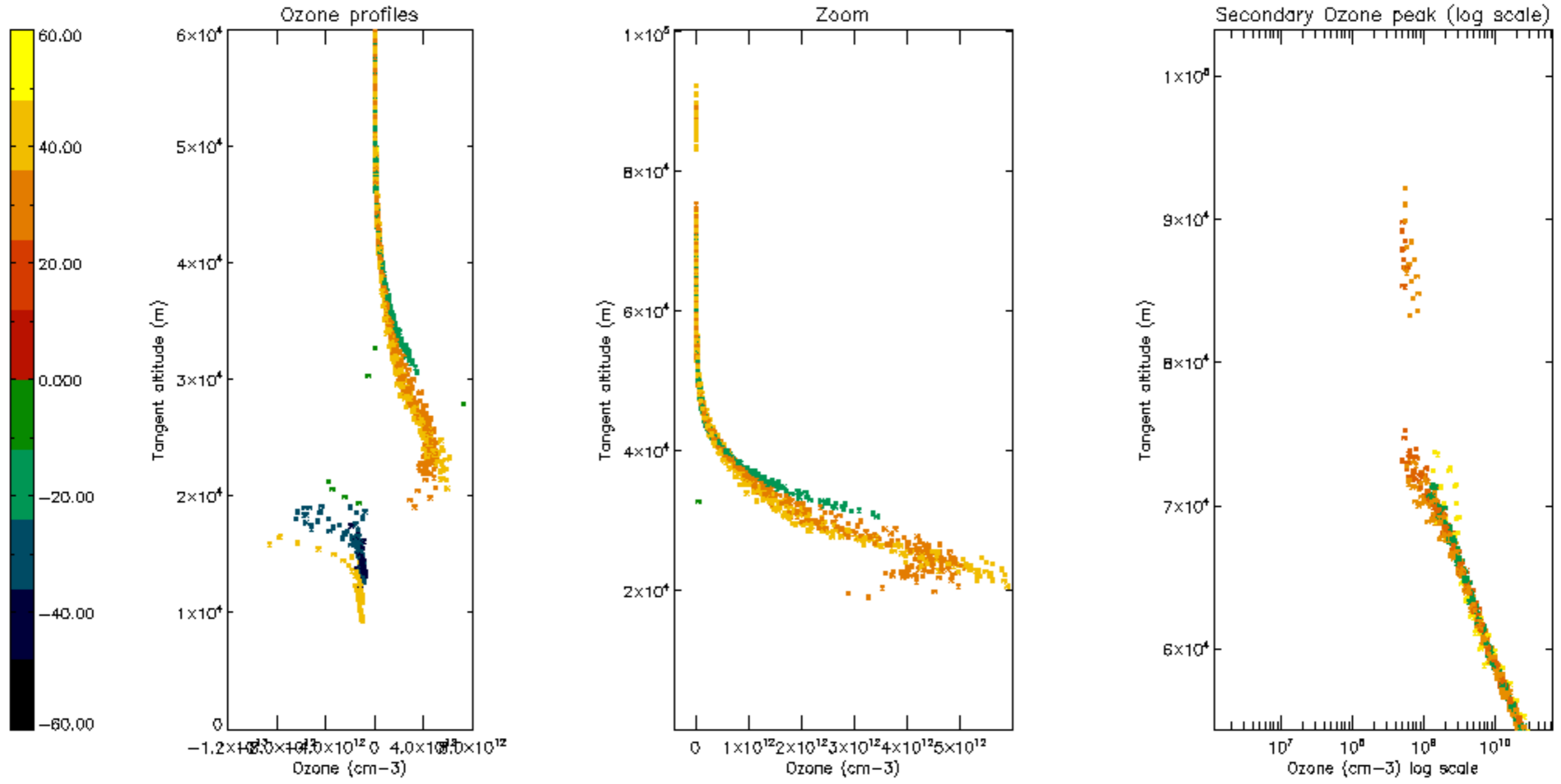
Percentage of saturation errors per profile

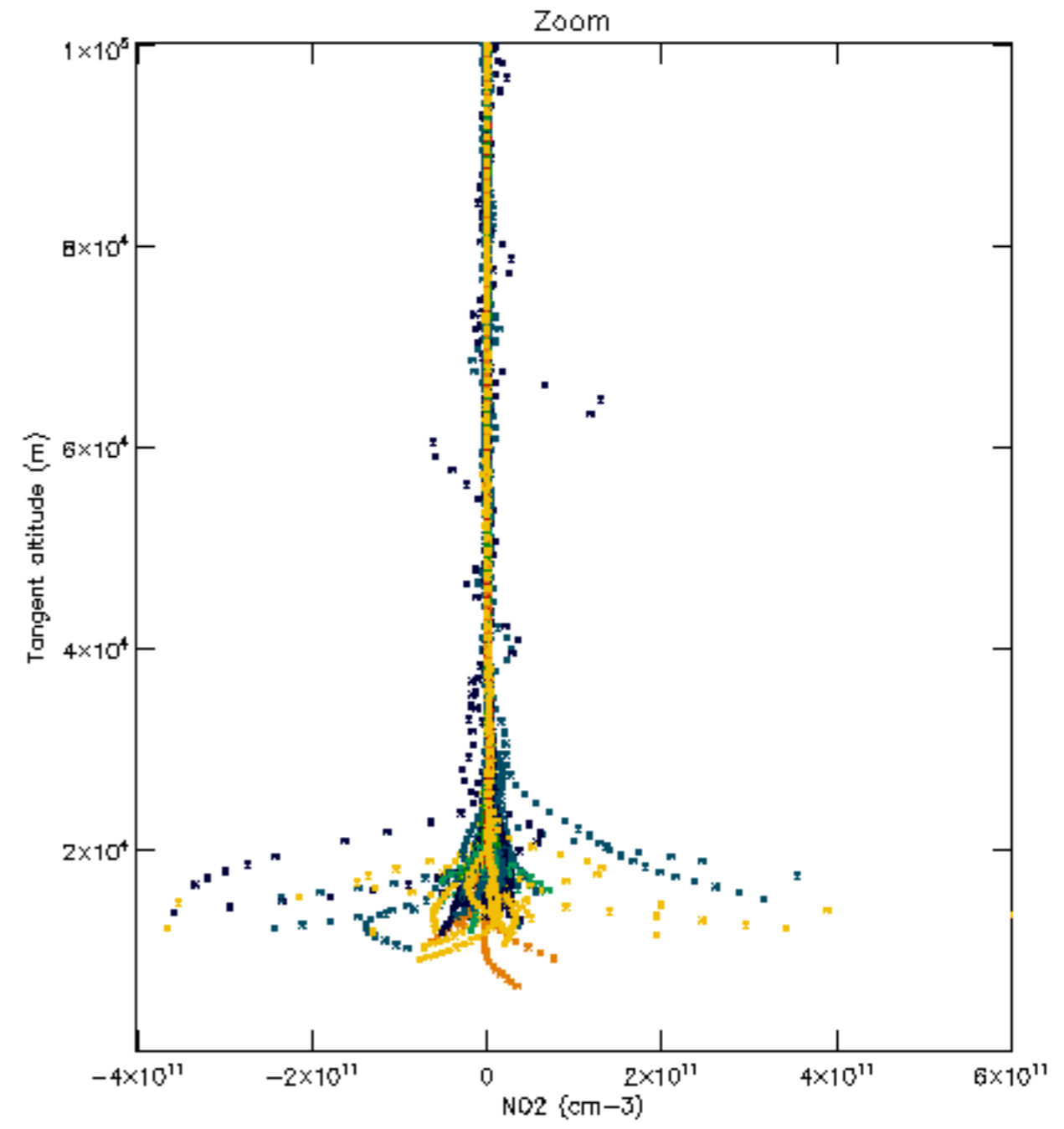
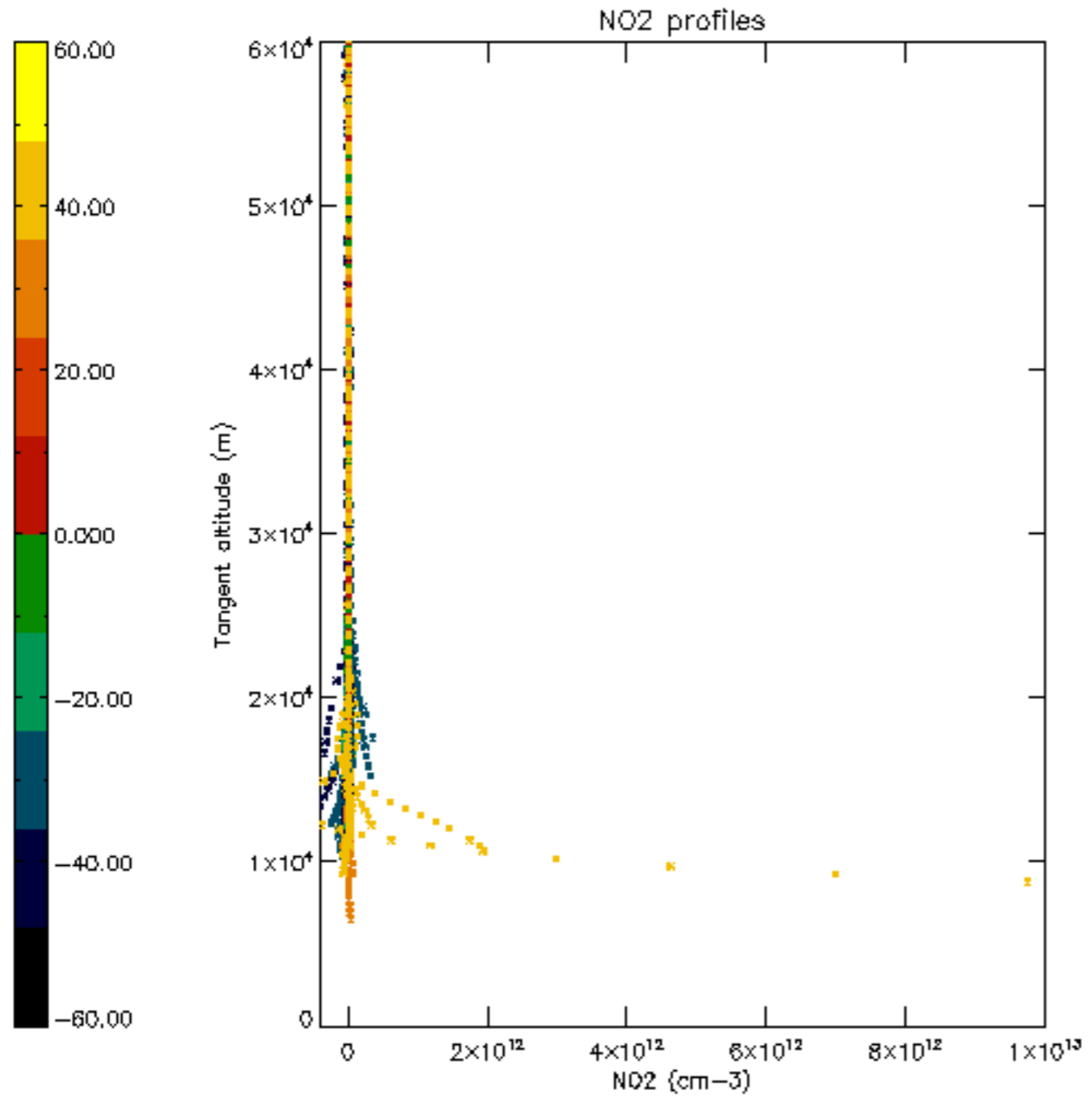


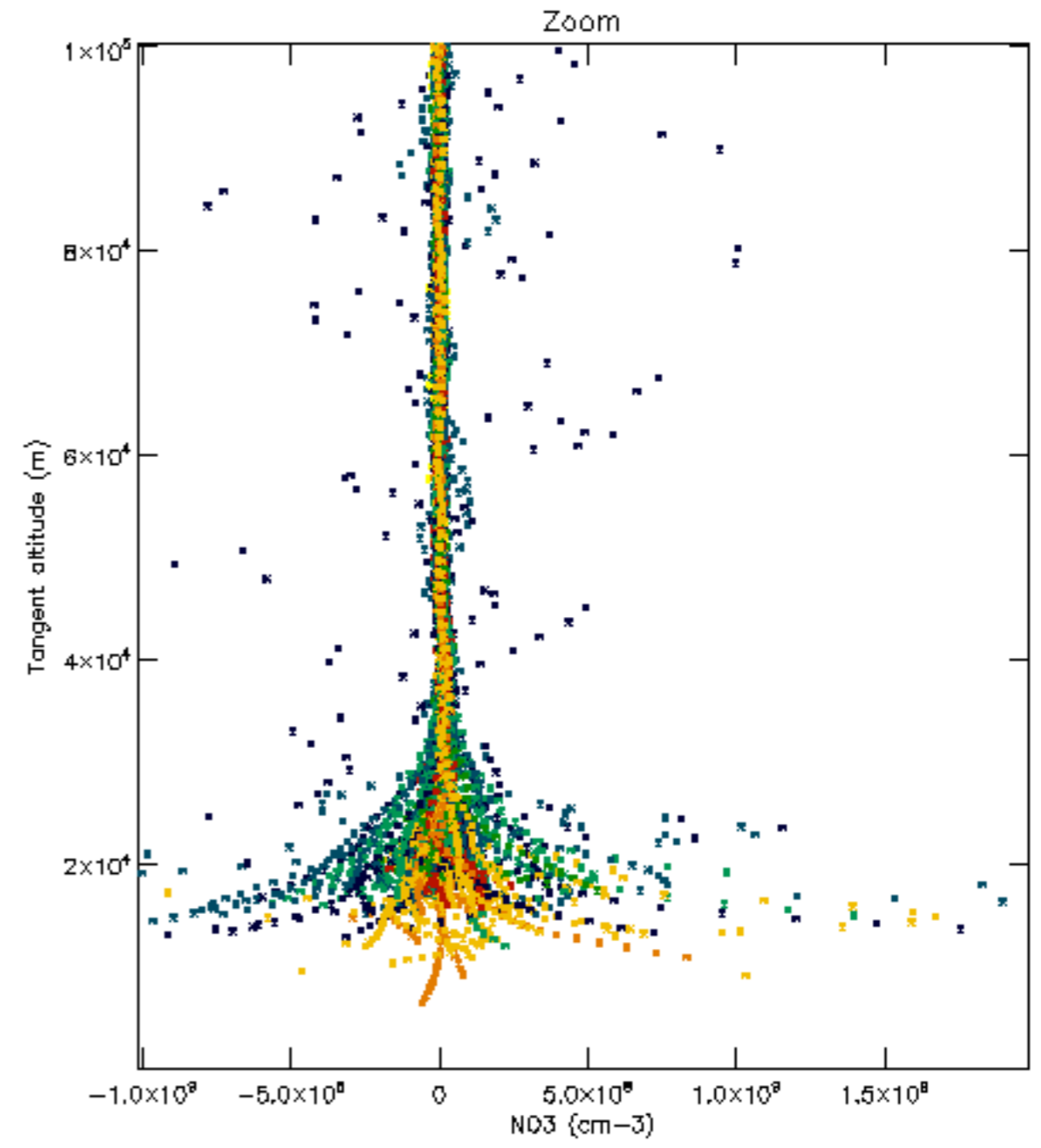
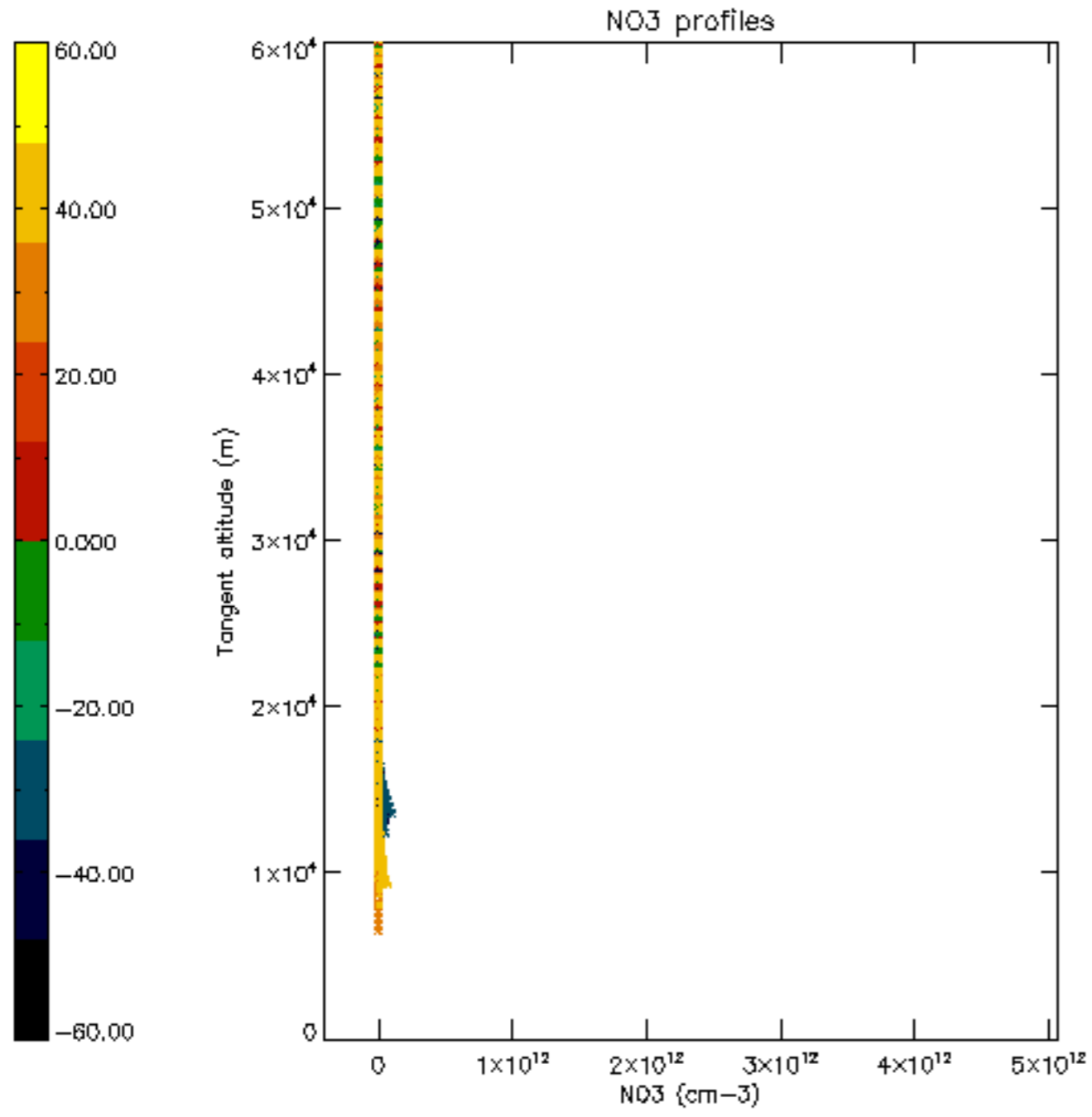


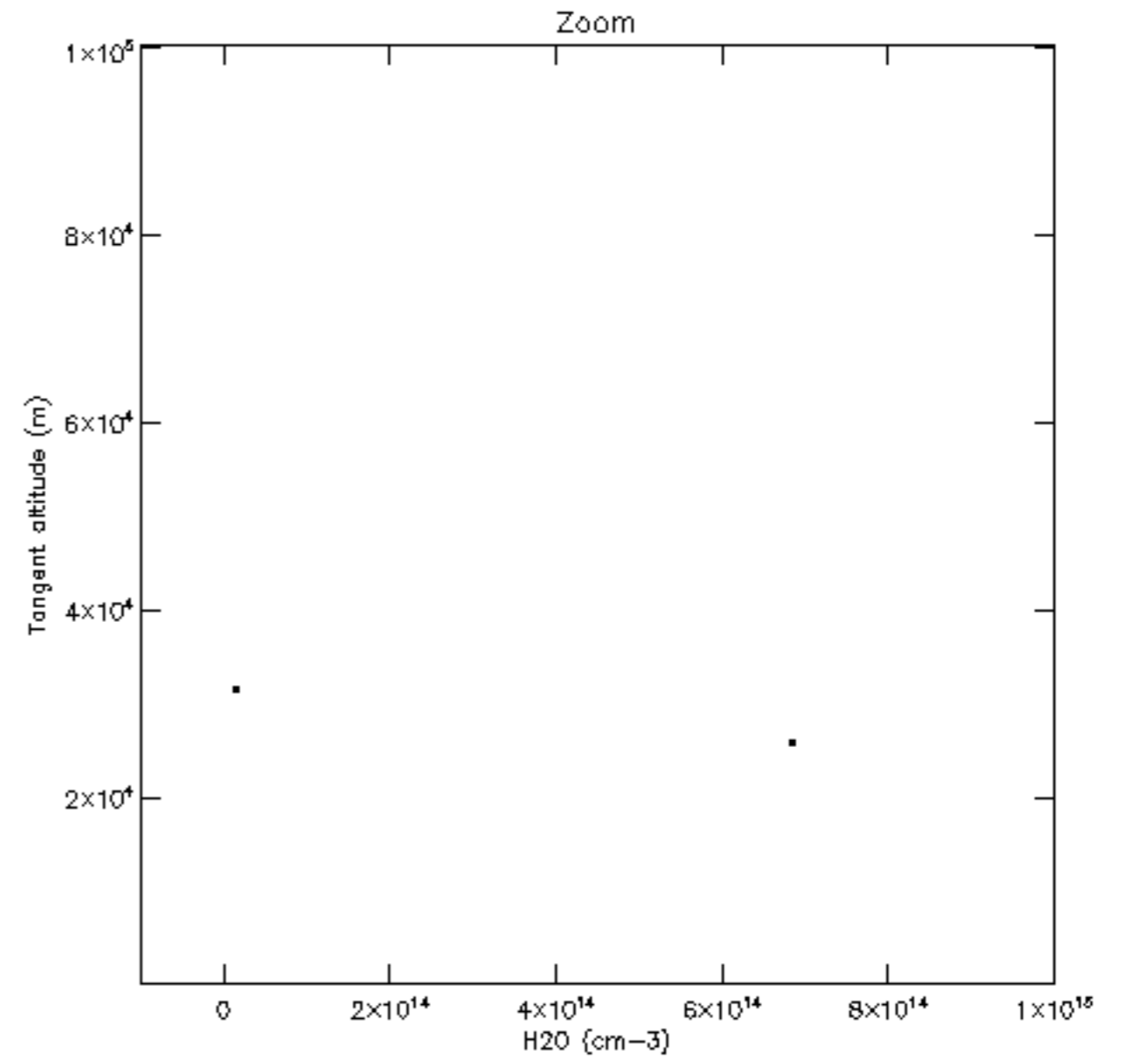
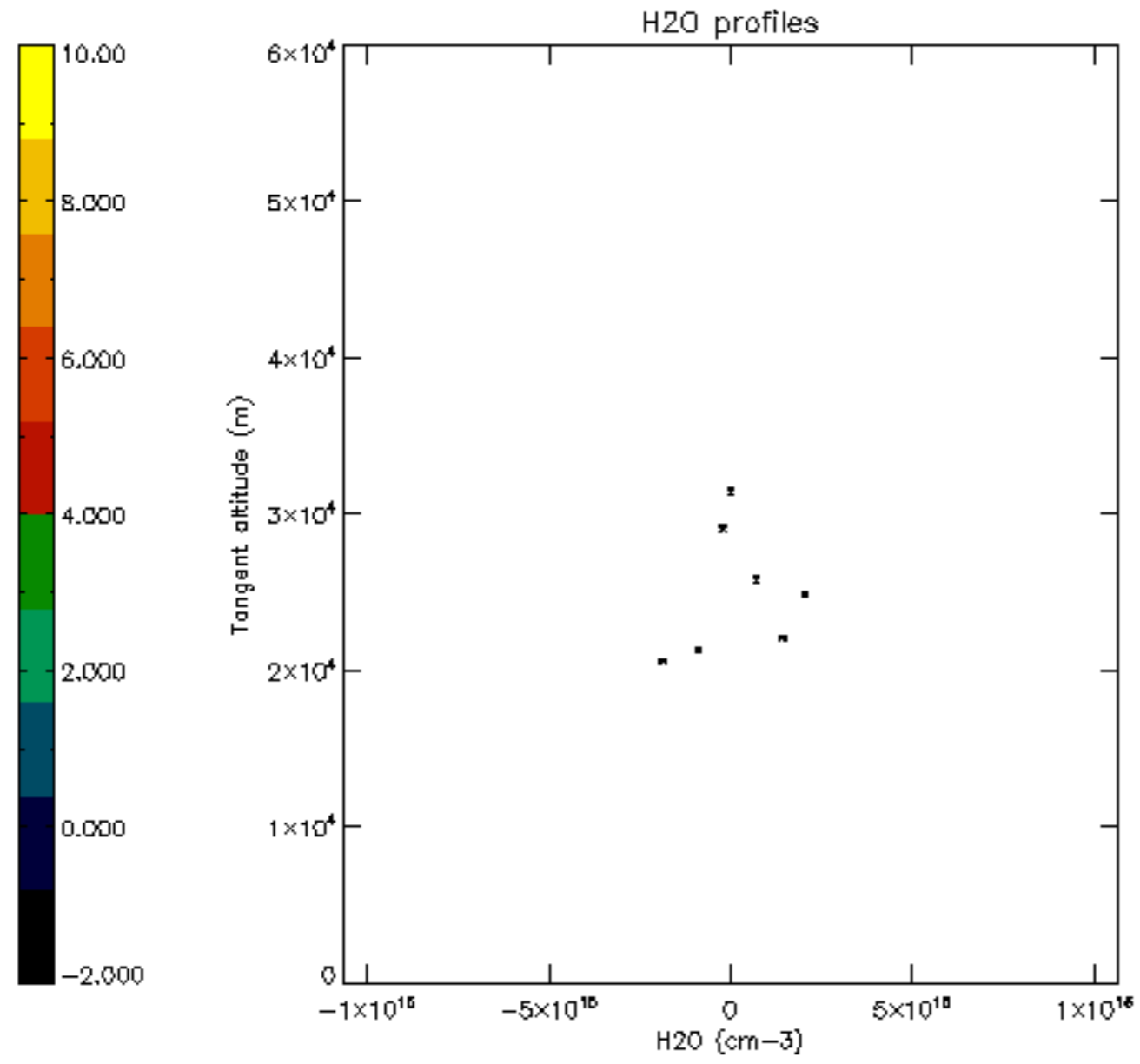


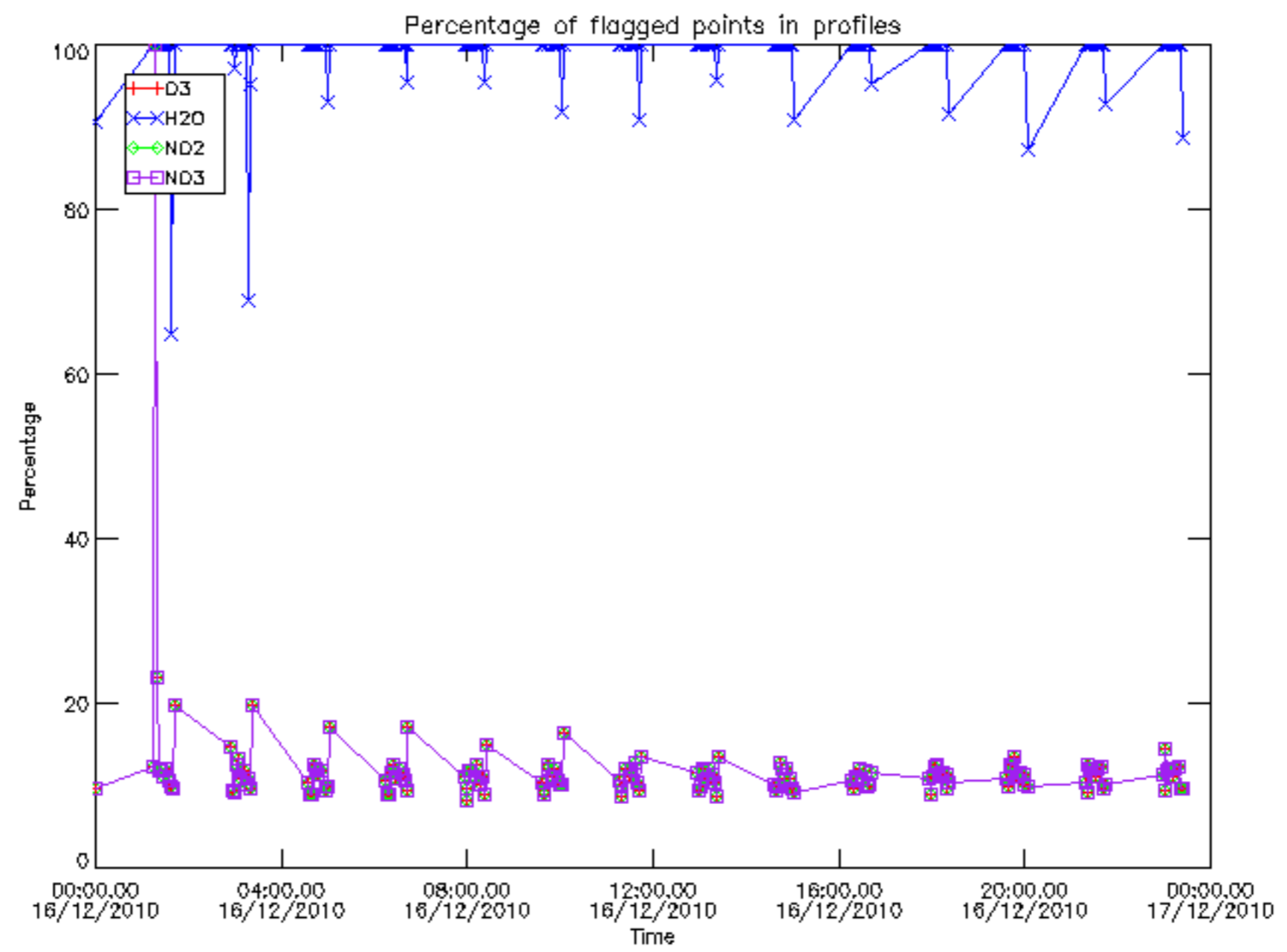




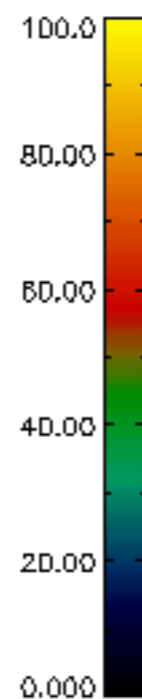
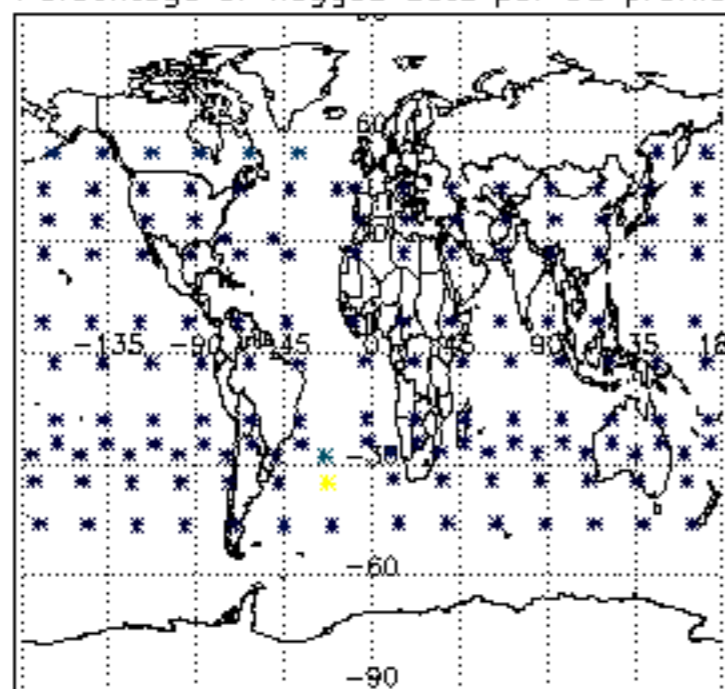




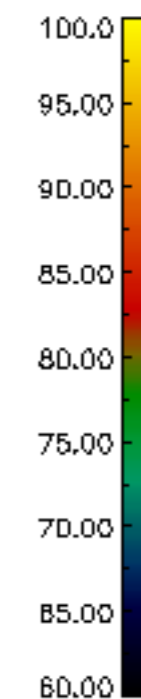
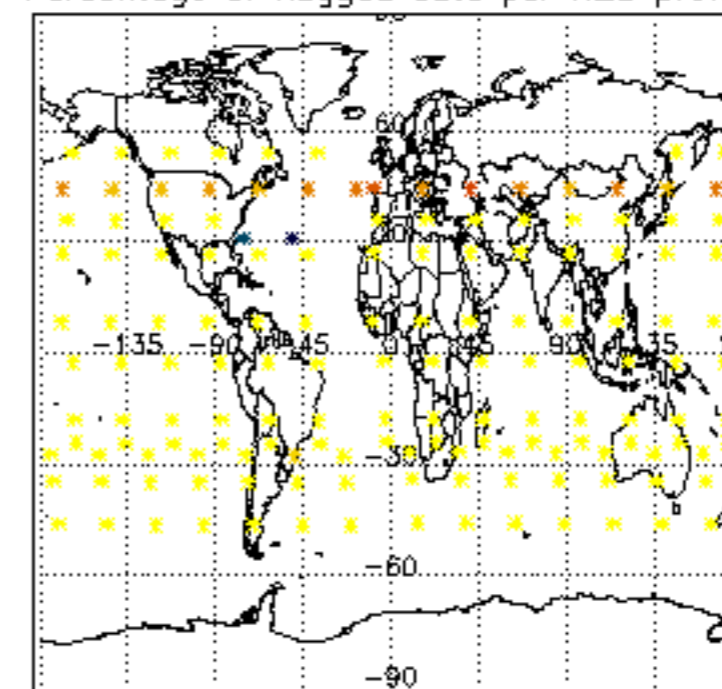




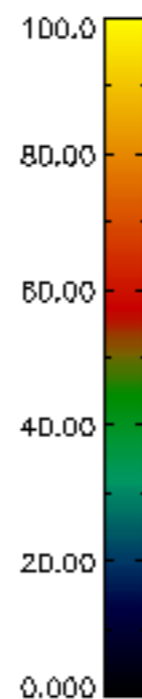
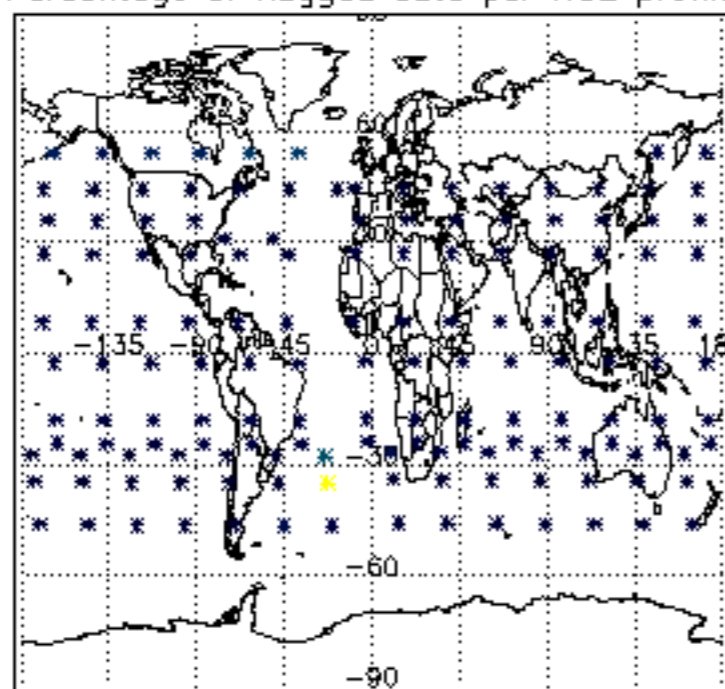
Percentage of flagged data per D3 profile



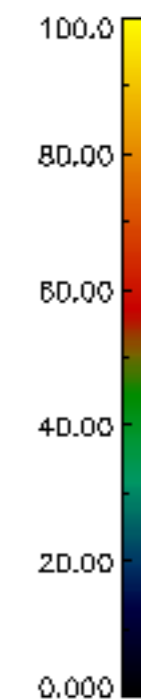
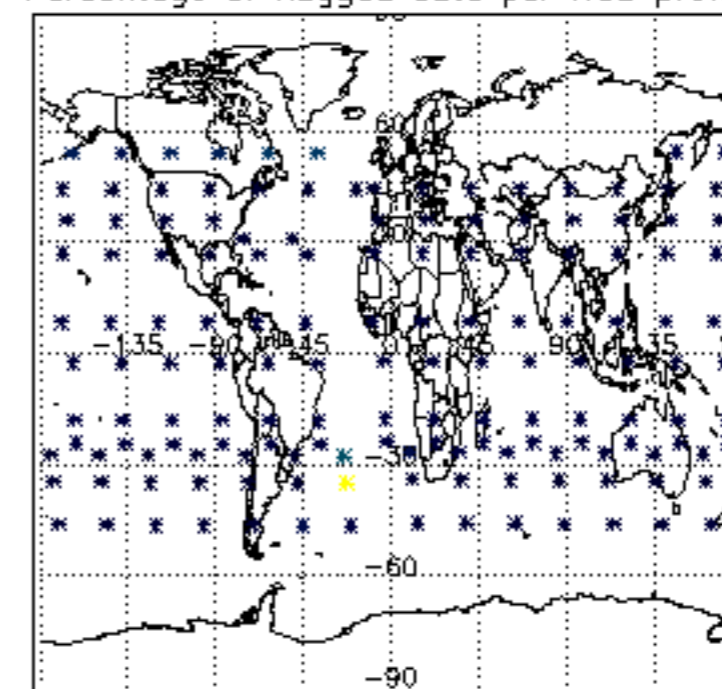
Percentage of flagged data per H2O profile

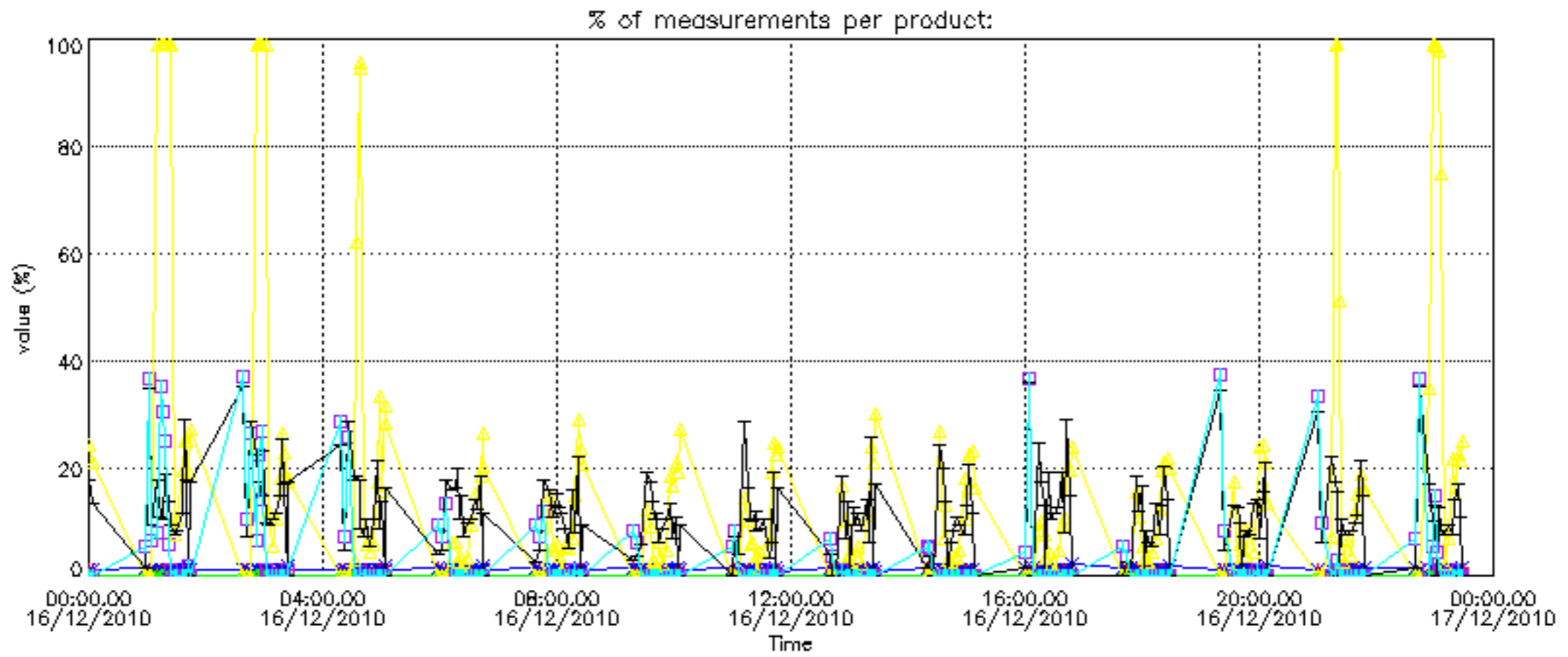


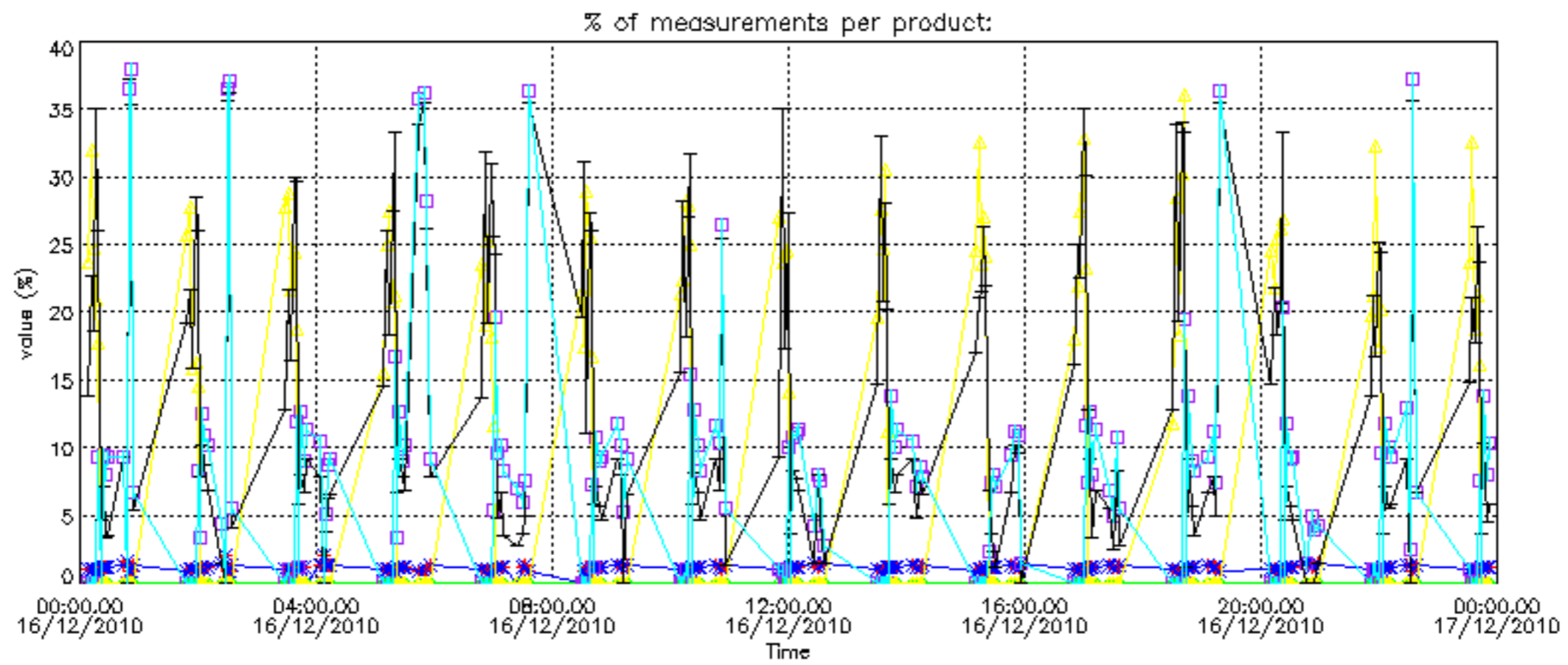
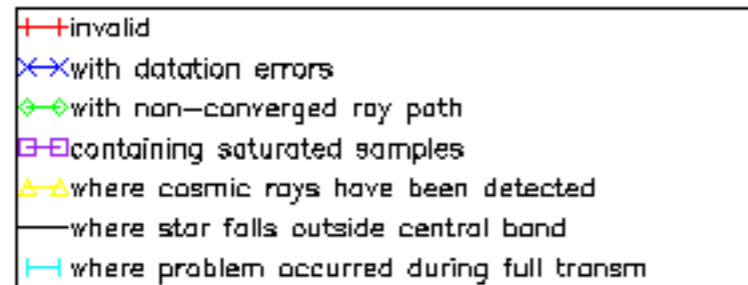
Percentage of flagged data per NO2 profile



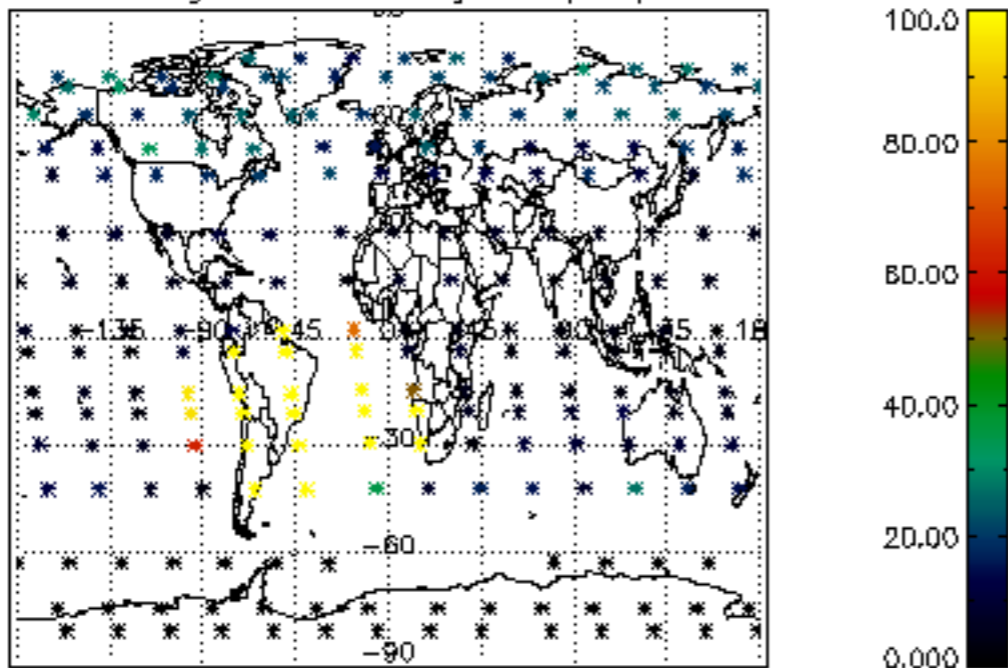
Percentage of flagged data per NO3 profile



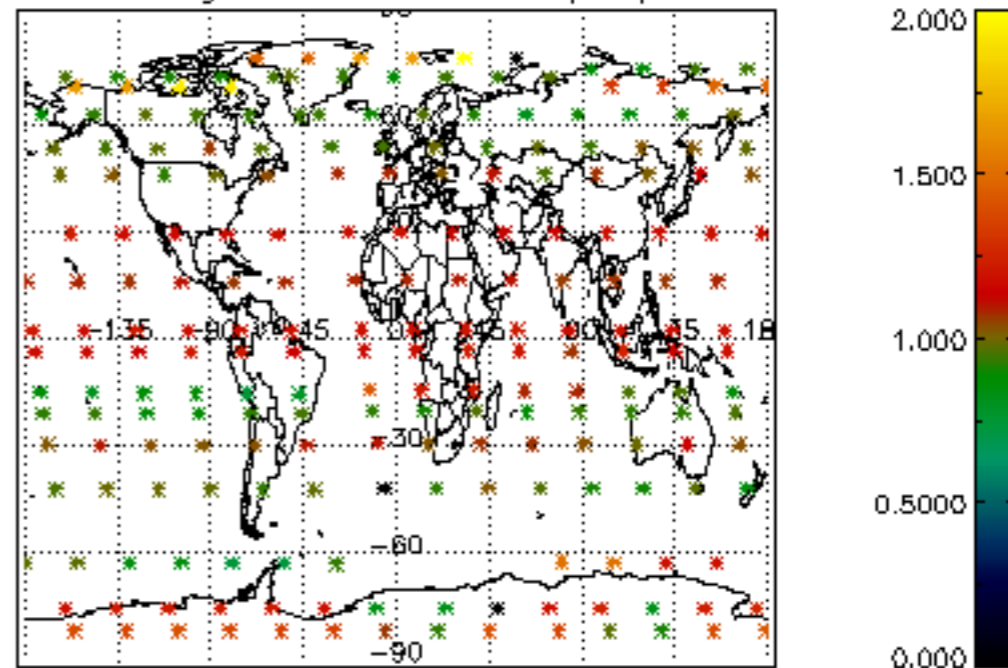




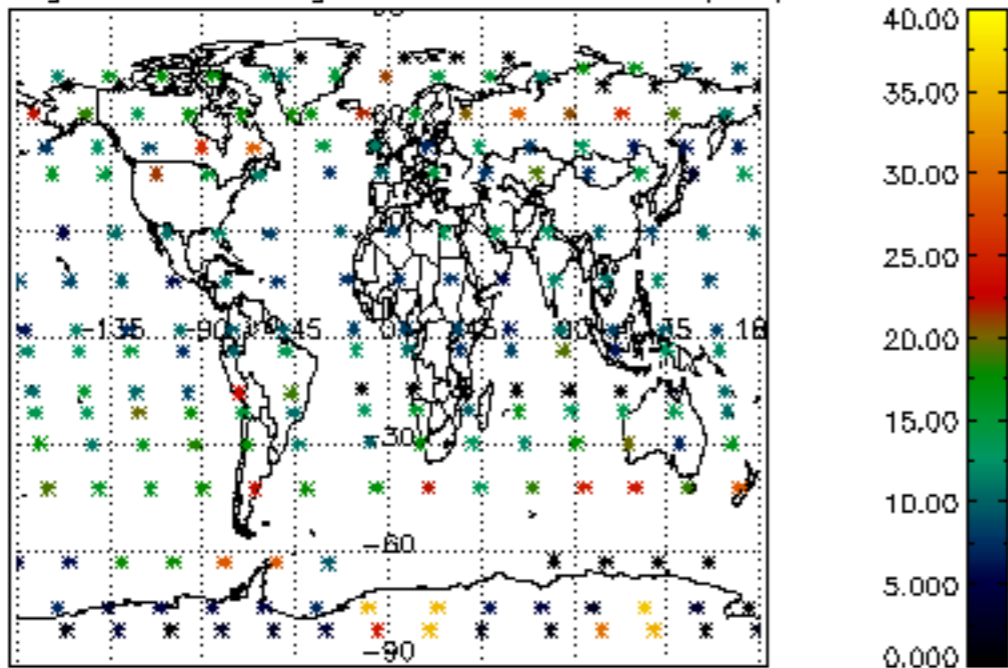
Percentage of cosmic ray hits per profile



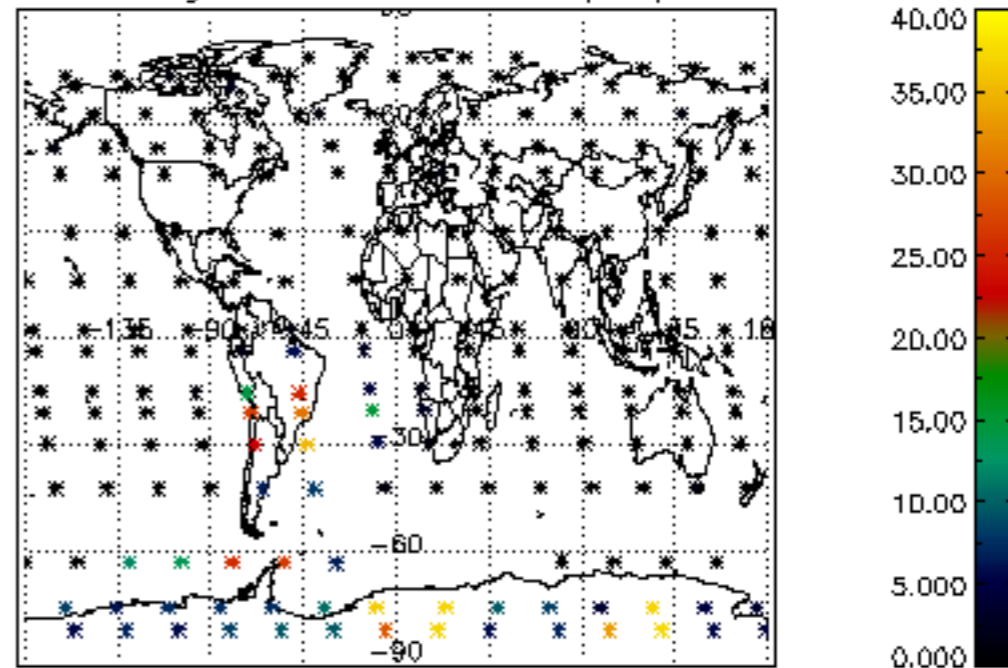
Percentage of datation errors per profile



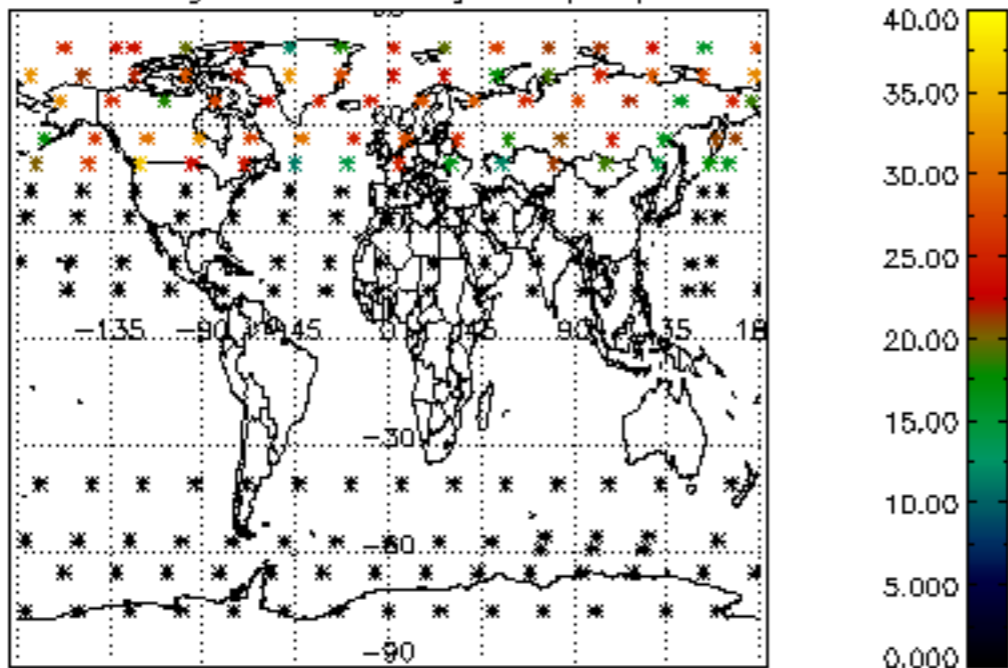
Percentage of star falling outside central band per profile



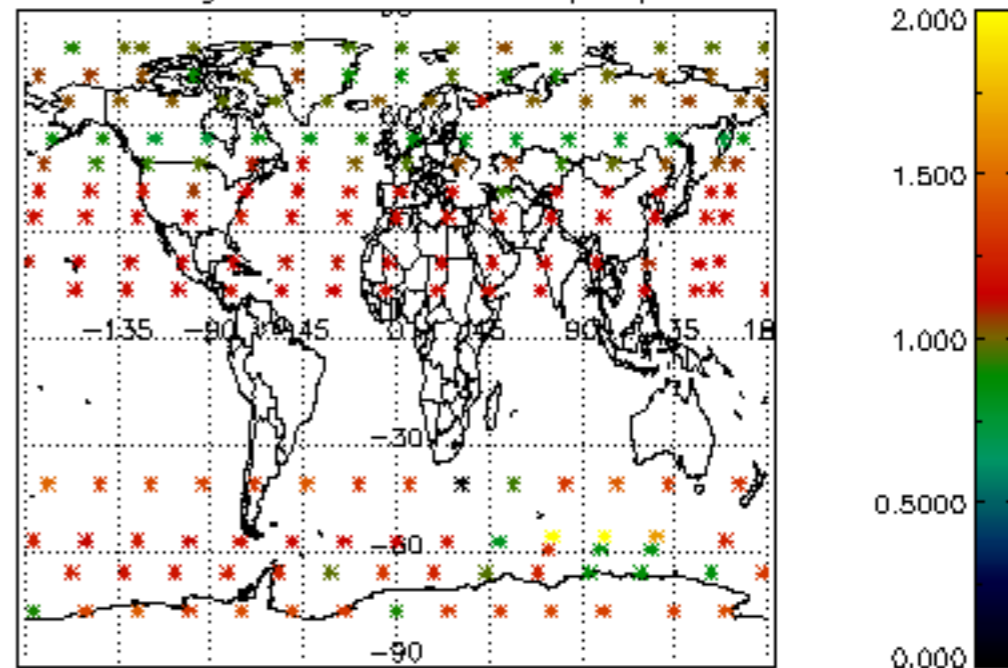
Percentage of saturation errors per profile



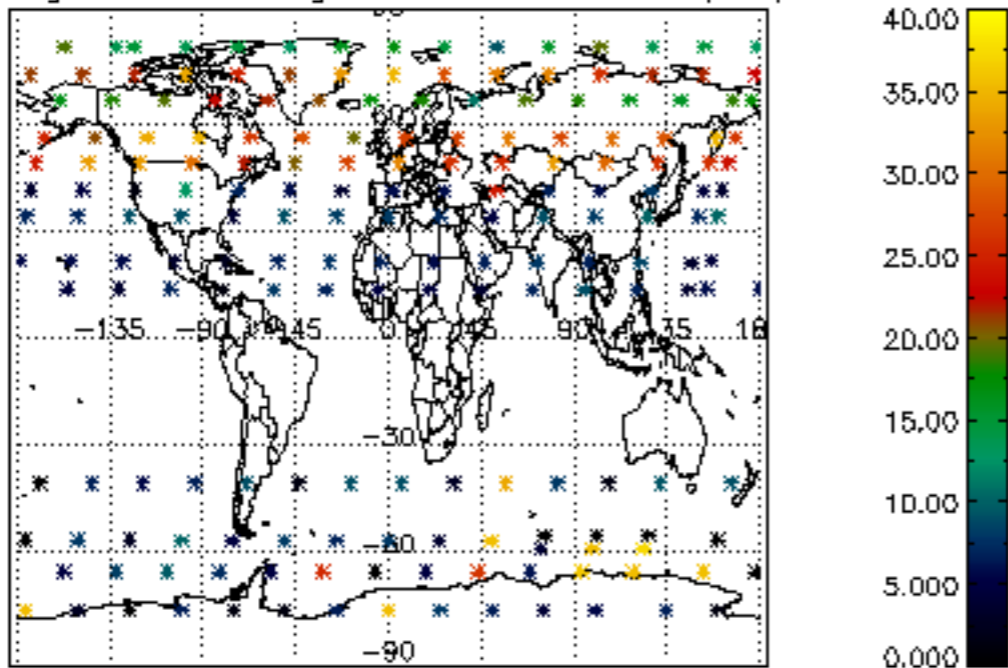
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

