

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 23:27:00
Data source version	GOMOS/6.01
Start time of products	10-12-2008 (10DEC2008 00:00:00)
Stop time of products	11-12-2008 (11DEC2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	371
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

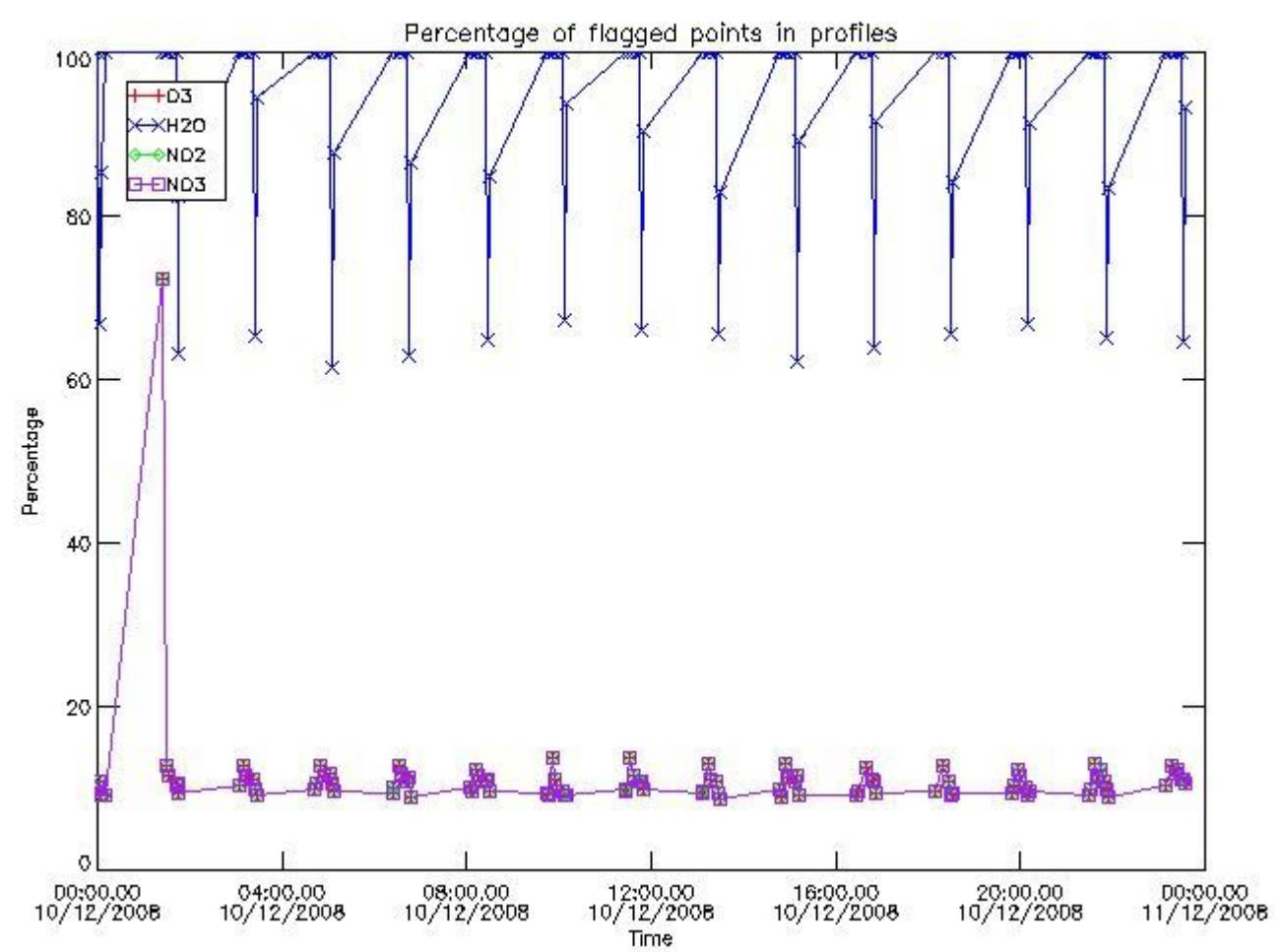
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20081210_000037_000000502074_00317_35441_0541.N1	10-DEC-2008 00:00:37	Dark	50.000	34	Gam2Vel	1.7930	23000.	100	35441	No
2	GOM_NL__2PRFIN20081210_0000313_000000472074_00317_35441_0542.N1	10-DEC-2008 00:03:13	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	35441	No
3	GOM_NL__2PRFIN20081210_000540_000000552074_00317_35441_0543.N1	10-DEC-2008 00:05:40	Dark	55.000	117	Pi Pup	2.7060	3800.0	110	35441	No
4	GOM_NL__2PRFIN20081210_000908_000000562074_00317_35441_0544.N1	10-DEC-2008 00:09:08	Dark	55.500	23	21Eps CMa	1.5020	26000.	111	35441	No
5	GOM_NL__2PRFIN20081210_001408_000000562074_00317_35441_0545.N1	10-DEC-2008 00:14:08	Straylight	55.500	47	2Bet CMa	1.9760	28000.	111	35441	No
6	GOM_NL__2PRFIN20081210_001750_000000512074_00317_35441_0546.N1	10-DEC-2008 00:17:50	Straylight	50.500	7	19Bet Ori	0.10000	14000.	101	35441	No
7	GOM_NL__2PRFIN20081210_002019_000000512074_00317_35441_0547.N1	10-DEC-2008 00:20:19	Straylight	50.500	30	46Eps Ori	1.6940	30000.	101	35441	No
8	GOM_NL__2PRFIN20081210_002247_000000512074_00317_35441_0548.N1	10-DEC-2008 00:22:47	Twilight	51.000	27	24Gam Ori	1.6360	26000.	102	35441	No
9	GOM_NL__2PRFIN20081210_002522_000000522074_00317_35441_0549.N1	10-DEC-2008 00:25:22	Twilight	52.000	13	87Alp Tau	0.86700	3800.0	104	35441	No
10	GOM_NL__2PRFIN20081210_002808_000000482074_00317_35441_0550.N1	10-DEC-2008 00:28:08	Bright	48.000	176	23Zet Tau	3.0200	22000.	96	35441	No
11	GOM_NL__2PRFIN20081210_003044_000000432074_00317_35441_0551.N1	10-DEC-2008 00:30:44	Bright	42.500	114	31ot Aur	2.6930	4600.0	85	35441	No
12	GOM_NL__2PRFIN20081210_003405_000000442074_00317_35441_0552.N1	10-DEC-2008 00:34:05	Bright	44.000	107	37The Aur	2.6490	11000.	88	35441	No
13	GOM_NL__2PRFIN20081210_003610_000000462074_00317_35441_0553.N1	10-DEC-2008 00:36:10	Bright	45.500	42	34Bet Aur	1.9000	10200.	91	35441	No
14	GOM_NL__2PRFIN20081210_005131_000000462074_00317_35441_0554.N1	10-DEC-2008 00:51:31	Bright	45.500	36	50Alp UMa	1.8000	6300.0	91	35441	No
15	GOM_NL__2PRFIN20081210_005302_000000492074_00317_35441_0555.N1	10-DEC-2008 00:53:02	Bright	48.500	82	48Bet UMa	2.3650	10600.	97	35441	No
16	GOM_NL__2PRFIN20081210_005520_000000412074_00317_35441_0556.N1	10-DEC-2008 00:55:20	Bright	41.000	32	77Eps UMa	1.7630	11000.	82	35441	No
17	GOM_NL__2PRFIN20081210_005743_000000562074_00317_35441_0557.N1	10-DEC-2008 00:57:43	Bright	56.000	39	85Eta UMa	1.8540	24000.	112	35441	No
18	GOM_NL__2PRFIN20081210_010116_000000432074_00317_35441_0558.N1	10-DEC-2008 01:01:16	Bright	42.500	152	12Alp2CVn	2.8900	11000.	85	35441	No
19	GOM_NL__2PRFIN20081210_010709_000000372074_00317_35441_0559.N1	10-DEC-2008 01:07:09	Bright	36.500	111	8Eta Boo	2.6800	6000.0	73	35441	No
20	GOM_NL__2PRFIN20081210_011042_000000482074_00317_35441_0560.N1	10-DEC-2008 01:10:42	Bright	47.500	138	47Eps Vir	2.8280	4700.0	95	35441	No
21	GOM_NL__2PRFIN20081210_011635_000000472074_00317_35441_0561.N1	10-DEC-2008 01:16:35	Bright	47.000	15	67Alp Vir	0.97600	28000.	94	35441	No
22	GOM_NL__2PRFIN20081210_012003_000000422074_00317_35441_0562.N1	10-DEC-2008 01:20:03	Twilight	42.000	169	46Gam Hya	2.9910	4700.0	84	35441	No
23	GOM_NL__2PRFIN20081210_012325_000000512074_00317_35441_0563.N1	10-DEC-2008 01:23:25	Dark	51.000	171	2Eps Crv	3.0010	4250.0	102	35441	No
24	GOM_NL__2PRFIN20081210_012903_000000402074_00317_35441_0564.N1	10-DEC-2008 01:29:03	Dark	40.000	99	Del Cen	2.5750	26000.	80	35441	No
25	GOM_NL__2PRFIN20081210_013236_000000452074_00318_35442_0544.N1	10-DEC-2008 01:32:36	Dark	44.500	113	Mu Vel	2.6920	5000.0	89	35442	No
26	GOM_NL__2PRFIN20081210_014114_000000552074_00318_35442_0545.N1	10-DEC-2008 01:41:14	Dark	54.500	34	Gam2Vel	1.7930	23000.	109	35442	No
27	GOM_NL__2PRFIN20081210_014349_000000482074_00318_35442_0546.N1	10-DEC-2008 01:43:49	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	35442	No
28	GOM_NL__2PRFIN20081210_014617_000000552074_00318_35442_0547.N1	10-DEC-2008 01:46:17	Dark	54.500	117	Pi Pup	2.7060	3800.0	109	35442	No
29	GOM_NL__2PRFIN20081210_014944_000000592074_00318_35442_0548.N1	10-DEC-2008 01:49:44	Straylight	59.000	23	21Eps CMa	1.5020	26000.	118	35442	No
30	GOM_NL__2PRFIN20081210_015444_000000552074_00318_35442_0549.N1	10-DEC-2008 01:54:44	Straylight	54.500	47	2Bet CMa	1.9760	28000.	109	35442	No
31	GOM_NL__2PRFIN20081210_015826_000000482074_00318_35442_0550.N1	10-DEC-2008 01:58:26	Straylight	47.500	7	19Bet Ori	0.10000	14000.	95	35442	No
32	GOM_NL__2PRFIN20081210_020055_000000512074_00318_35442_0551.N1	10-DEC-2008 02:00:55	Straylight	50.500	30	46Eps Ori	1.6940	30000.	101	35442	No
33	GOM_NL__2PRFIN20081210_020322_000000522074_00318_35442_0552.N1	10-DEC-2008 02:03:22	Twilight	51.500	27	24Gam Ori	1.6360	26000.	103	35442	No
34	GOM_NL__2PRFIN20081210_020557_000000542074_00318_35442_0553.N1	10-DEC-2008 02:05:57	Twilight	53.500	13	87Alp Tau	0.86700	3800.0	107	35442	No
35	GOM_NL__2PRFIN20081210_020843_000000482074_00318_35442_0554.N1	10-DEC-2008 02:08:43	Bright	47.500	176	23Zet Tau	3.0200	22000.	95	35442	No
36	GOM_NL__2PRFIN20081210_021119_000000592074_00318_35442_0555.N1	10-DEC-2008 02:11:19	Bright	59.000	114	31ot Aur	2.6930	4600.0	118	35442	No
37	GOM_NL__2PRFIN20081210_021440_000000472074_00318_35442_0556.N1	10-DEC-2008 02:14:40	Bright	46.500	107	37The Aur	2.6490	11000.	93	35442	No
38	GOM_NL__2PRFIN20081210_021645_000000462074_00318_35442_0557.N1	10-DEC-2008 02:16:45	Bright	46.000	42	34Bet Aur	1.9000	10200.	92	35442	No
39	GOM_NL__2PRFIN20081210_023206_000000472074_00318_35442_0558.N1	10-DEC-2008 02:32:06	Bright	47.000	36	50Alp UMa	1.8000	6300.0	94	35442	No
40	GOM_NL__2PRFIN20081210_023337_000000492074_00318_35442_0559.N1	10-DEC-2008 02:33:37	Bright	48.500	82	48Bet UMa	2.3650	10600.	97	35442	No
41	GOM_NL__2PRFIN20081210_023556_000000422074_00318_35442_0560.N1	10-DEC-2008 02:35:56	Bright	42.000	32	77Eps UMa	1.7630	11000.	84	35442	No
42	GOM_NL__2PRFIN20081210_023819_000000362074_00318_35442_0561.N1	10-DEC-2008 02:38:19	Bright	36.000	39	85Eta UMa	1.8540	24000.	72	35442	No

338	GOM_NL__2PRFIN20081210_220157_000000552074_00330_35454_0598.N1	10-DEC-2008 22:01:57	Straylight	55.000	47	2Bet CMa	1.9760	28000.	110	35454	No
339	GOM_NL__2PRFIN20081210_220537_000000512074_00330_35454_0599.N1	10-DEC-2008 22:05:37	Straylight	50.500	7	19Bet Ori	0.10000	14000.	101	35454	No
340	GOM_NL__2PRFIN20081210_220804_000000512074_00330_35454_0600.N1	10-DEC-2008 22:08:04	Straylight	51.000	30	46Eps Ori	1.6940	30000.	102	35454	No
341	GOM_NL__2PRFIN20081210_221031_000000512074_00330_35454_0601.N1	10-DEC-2008 22:10:31	Twilight	51.000	27	24Gam Ori	1.6360	26000.	102	35454	No
342	GOM_NL__2PRFIN20081210_221307_000000452074_00330_35454_0602.N1	10-DEC-2008 22:13:07	Twilight	45.000	13	87Alp Tau	0.86700	3800.0	90	35454	No
343	GOM_NL__2PRFIN20081210_221548_000000462074_00330_35454_0603.N1	10-DEC-2008 22:15:48	Bright	46.000	176	23Zet Tau	3.0200	22000.	92	35454	No
344	GOM_NL__2PRFIN20081210_221749_000000462074_00330_35454_0604.N1	10-DEC-2008 22:17:49	Bright	45.500	28	12Bet Tau	1.6500	15200.	91	35454	No
345	GOM_NL__2PRFIN20081210_221941_000000352074_00330_35454_0605.N1	10-DEC-2008 22:19:41	Bright	35.000	149	45Eps Per	2.8880	30000.	70	35454	No
346	GOM_NL__2PRFIN20081210_222142_000000512074_00330_35454_0606.N1	10-DEC-2008 22:21:42	Bright	51.000	107	37The Aur	2.6490	11000.	102	35454	No
347	GOM_NL__2PRFIN20081210_222348_000000452074_00330_35454_0607.N1	10-DEC-2008 22:23:48	Bright	45.000	42	34Bet Aur	1.9000	10200.	90	35454	No
348	GOM_NL__2PRFIN20081210_223912_000000482074_00330_35454_0608.N1	10-DEC-2008 22:39:12	Bright	47.500	36	50Alp UMa	1.8000	6300.0	95	35454	No
349	GOM_NL__2PRFIN20081210_224042_000000482074_00330_35454_0609.N1	10-DEC-2008 22:40:42	Bright	48.000	82	48Bet UMa	2.3650	10600.	96	35454	No
350	GOM_NL__2PRFIN20081210_224305_000000422074_00330_35454_0610.N1	10-DEC-2008 22:43:05	Bright	42.000	32	77Eps UMa	1.7630	11000.	84	35454	No
351	GOM_NL__2PRFIN20081210_224530_000000392074_00330_35454_0611.N1	10-DEC-2008 22:45:30	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	35454	No
352	GOM_NL__2PRFIN20081210_224903_000000432074_00330_35454_0612.N1	10-DEC-2008 22:49:03	Bright	43.000	152	12Alp2CVn	2.8900	11000.	86	35454	No
353	GOM_NL__2PRFIN20081210_225459_000000382074_00330_35454_0613.N1	10-DEC-2008 22:54:59	Bright	37.500	111	8Eta Boo	2.6800	6000.0	75	35454	No
354	GOM_NL__2PRFIN20081210_225836_000000472074_00330_35454_0614.N1	10-DEC-2008 22:58:36	Bright	46.500	138	47Eps Vir	2.8280	4700.0	93	35454	No
355	GOM_NL__2PRFIN20081210_230430_000000512074_00330_35454_0615.N1	10-DEC-2008 23:04:30	Twilight	50.500	15	67Alp Vir	0.97600	28000.	101	35454	No
356	GOM_NL__2PRFIN20081210_230758_000000412074_00330_35454_0616.N1	10-DEC-2008 23:07:58	Twilight	41.000	169	46Gam Hya	2.9910	4700.0	82	35454	No
357	GOM_NL__2PRFIN20081210_230950_000000492074_00330_35454_0617.N1	10-DEC-2008 23:09:50	Dark	49.000	100	4Gam Crv	2.5800	13100.	98	35454	No
358	GOM_NL__2PRFIN20081210_231658_000000402074_00330_35454_0618.N1	10-DEC-2008 23:16:58	Dark	40.000	99	Del Cen	2.5750	26000.	80	35454	No
359	GOM_NL__2PRFIN20081210_232034_000000432074_00331_35455_0596.N1	10-DEC-2008 23:20:34	Dark	43.000	113	Mu Vel	2.6920	5000.0	86	35455	No
360	GOM_NL__2PRFIN20081210_232439_000000422074_00331_35455_0597.N1	10-DEC-2008 23:24:39	Dark	41.500	71	lot Car	2.2460	7700.0	83	35455	No
361	GOM_NL__2PRFIN20081210_232911_000000462074_00331_35455_0598.N1	10-DEC-2008 23:29:11	Dark	45.500	34	Gam2Vel	1.7930	23000.	91	35455	No
362	GOM_NL__2PRFIN20081210_233142_000000462074_00331_35455_0599.N1	10-DEC-2008 23:31:42	Dark	45.500	2	Alp Car	-0.73600	7000.0	91	35455	No
363	GOM_NL__2PRFIN20081210_233412_000000532074_00331_35455_0600.N1	10-DEC-2008 23:34:12	Dark	53.000	117	Pi Pup	2.7060	3800.0	106	35455	No
364	GOM_NL__2PRFIN20081210_233738_000000562074_00331_35455_0601.N1	10-DEC-2008 23:37:38	Straylight	55.500	23	21Eps CMa	1.5020	26000.	111	35455	No
365	GOM_NL__2PRFIN20081210_234233_000000522074_00331_35455_0602.N1	10-DEC-2008 23:42:33	Straylight	52.000	47	2Bet CMa	1.9760	28000.	104	35455	No
366	GOM_NL__2PRFIN20081210_234613_000000522074_00331_35455_0603.N1	10-DEC-2008 23:46:13	Straylight	52.000	7	19Bet Ori	0.10000	14000.	104	35455	No
367	GOM_NL__2PRFIN20081210_234840_000000502074_00331_35455_0604.N1	10-DEC-2008 23:48:40	Straylight	49.500	30	46Eps Ori	1.6940	30000.	99	35455	No
368	GOM_NL__2PRFIN20081210_235106_000000502074_00331_35455_0605.N1	10-DEC-2008 23:51:06	Twilight	49.500	27	24Gam Ori	1.6360	26000.	99	35455	No
369	GOM_NL__2PRFIN20081210_235343_000000562074_00331_35455_0606.N1	10-DEC-2008 23:53:43	Twilight	56.000	13	87Alp Tau	0.86700	3800.0	112	35455	No
370	GOM_NL__2PRFIN20081210_235623_000000462074_00331_35455_0607.N1	10-DEC-2008 23:56:23	Bright	45.500	176	23Zet Tau	3.0200	22000.	91	35455	No
371	GOM_NL__2PRFIN20081210_235824_000000442074_00331_35455_0608.N1	10-DEC-2008 23:58:24	Bright	44.000	28	12Bet Tau	1.6500	15200.	88	35455	No

3. Quality information per product

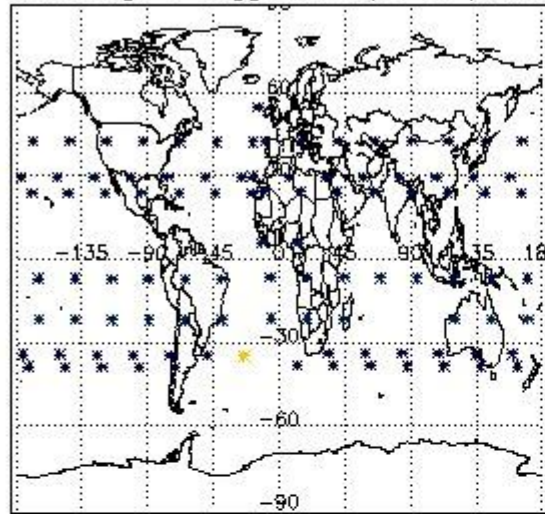
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

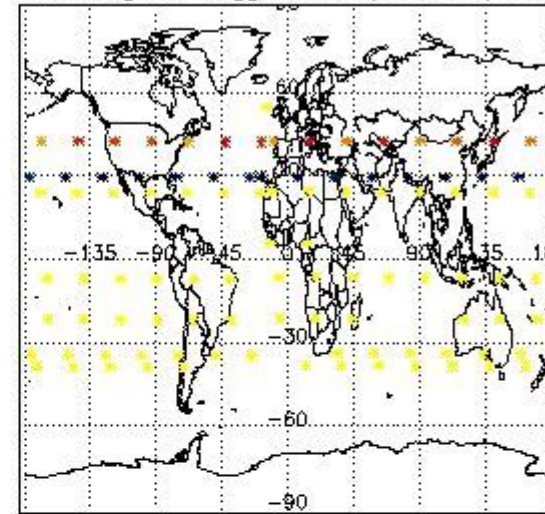


3.2 Plot quality information per product (world map)

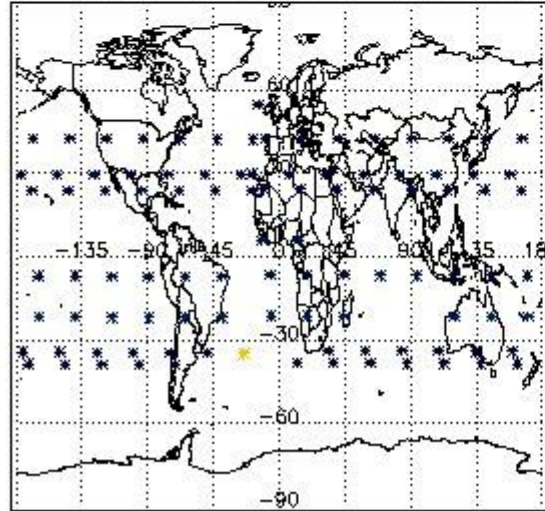
Percentage of flagged data per O3 profile



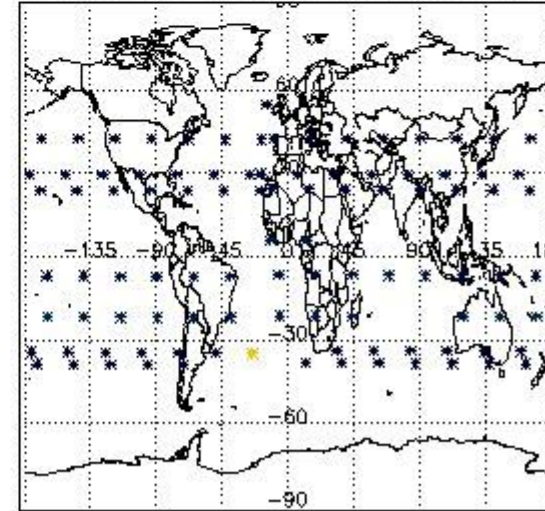
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

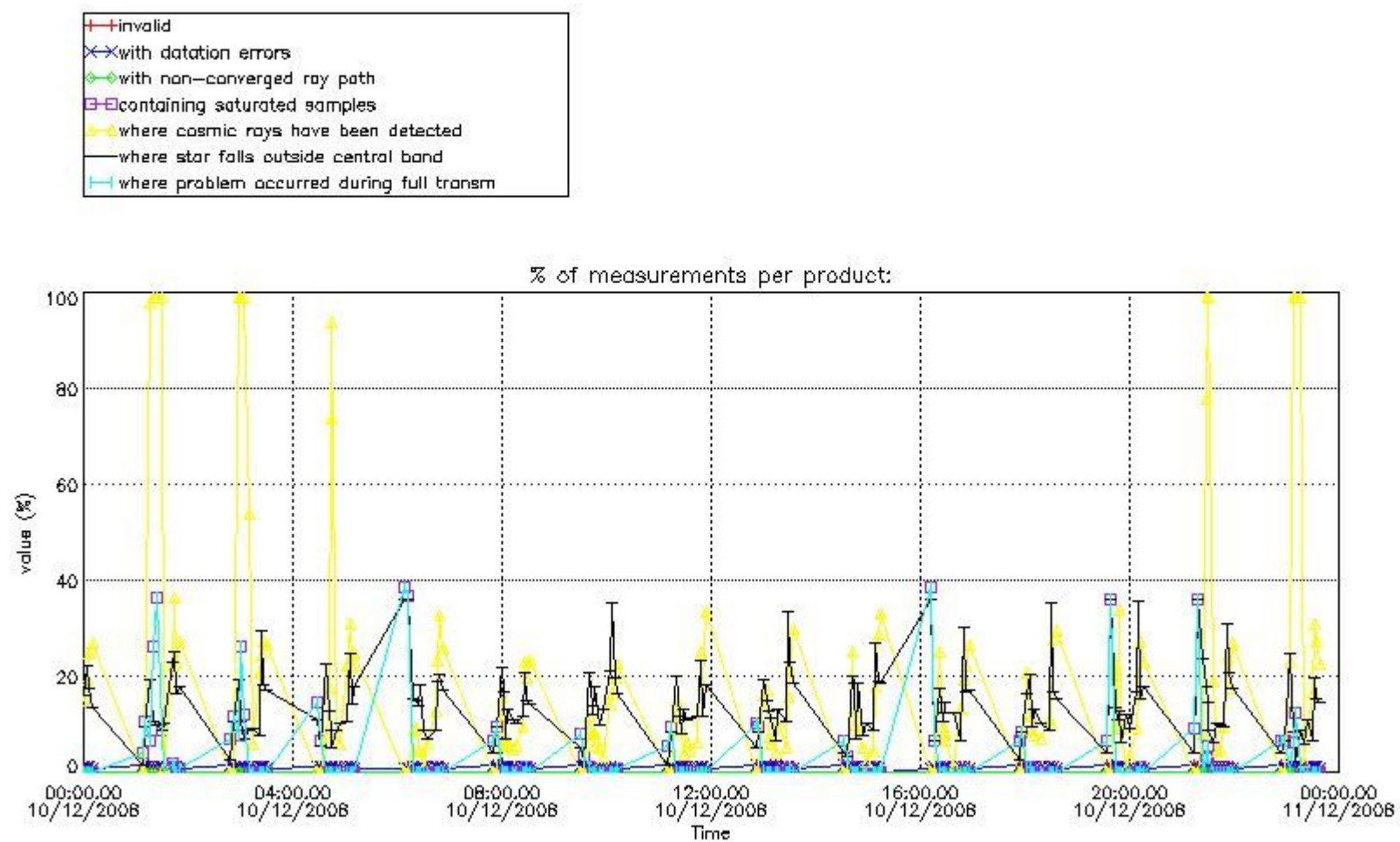


4. Level 1 quality information per product

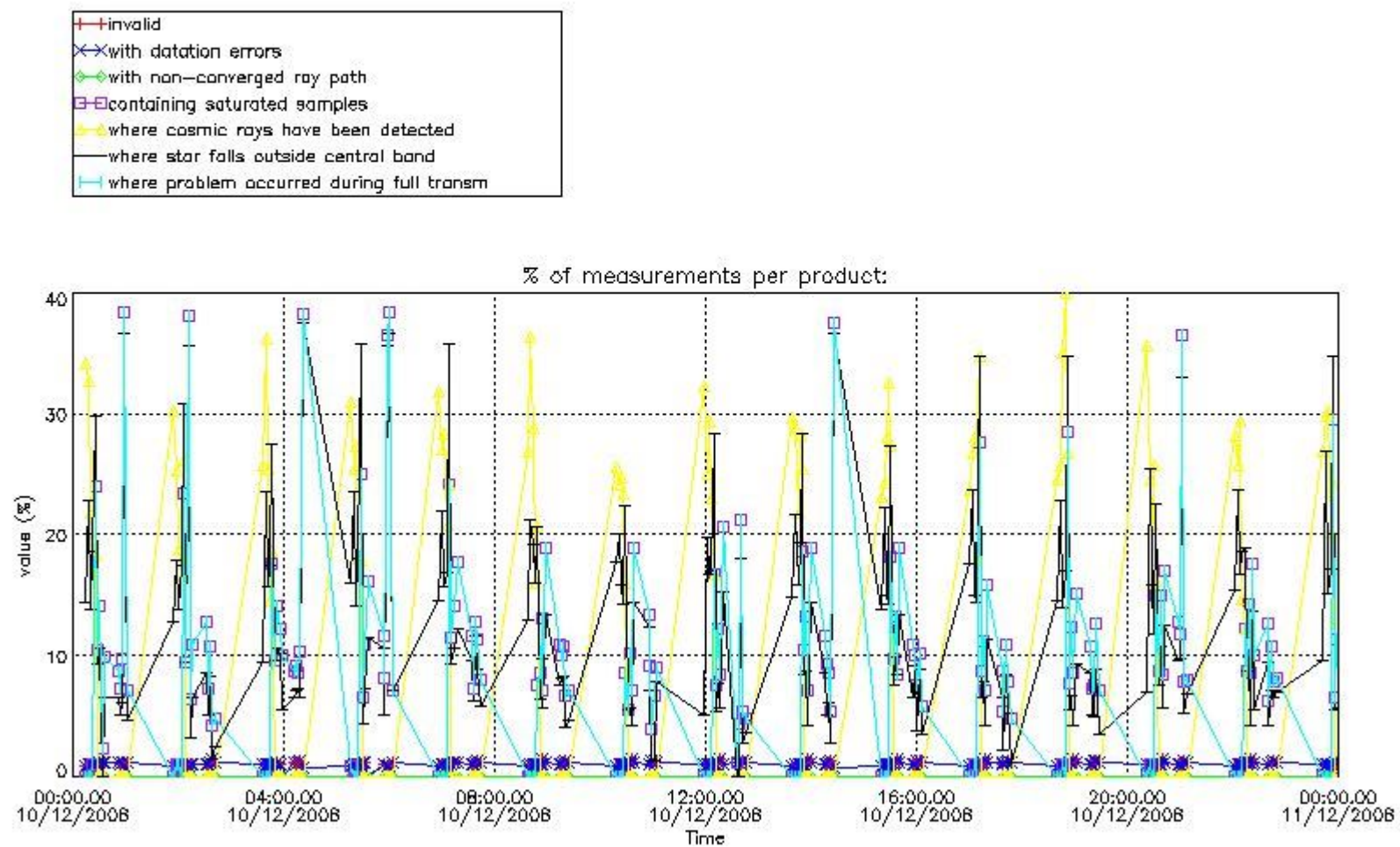
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



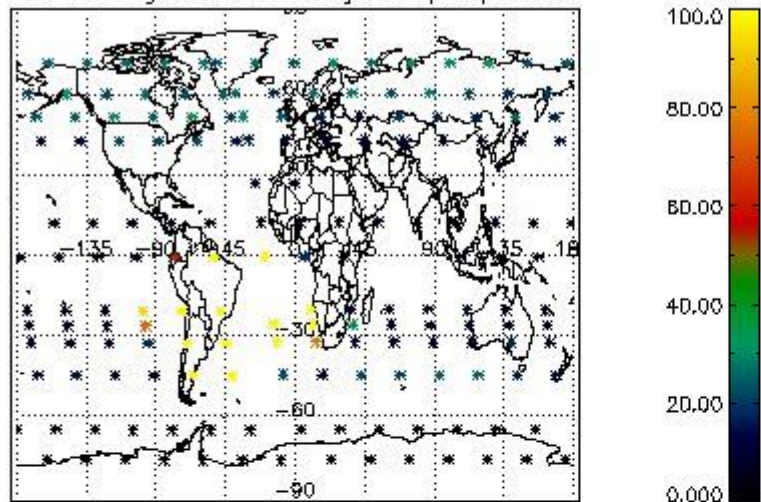
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



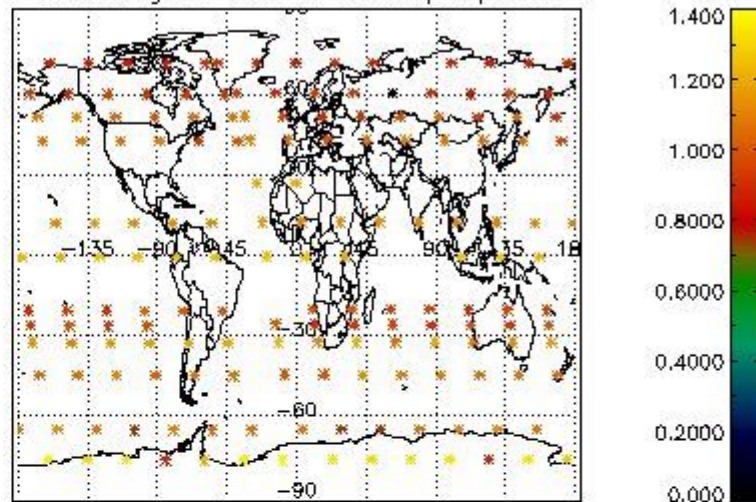
4.2 Plot quality information per product coming from level 1b processing (world map)

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

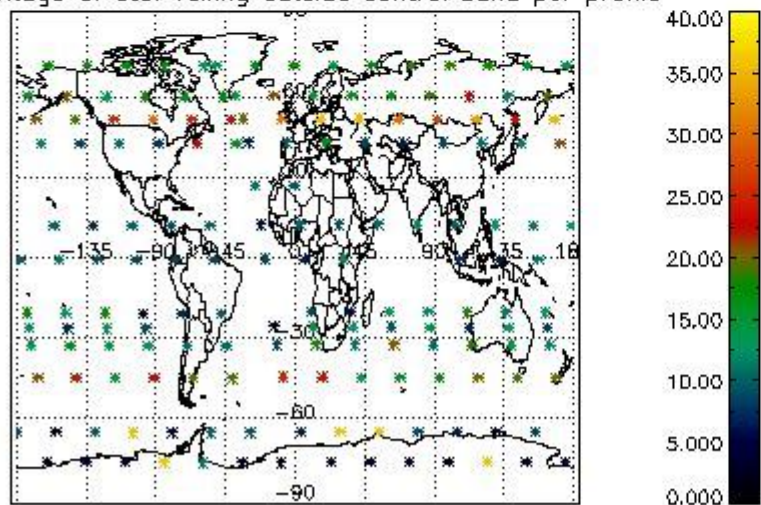
Percentage of cosmic ray hits per profile



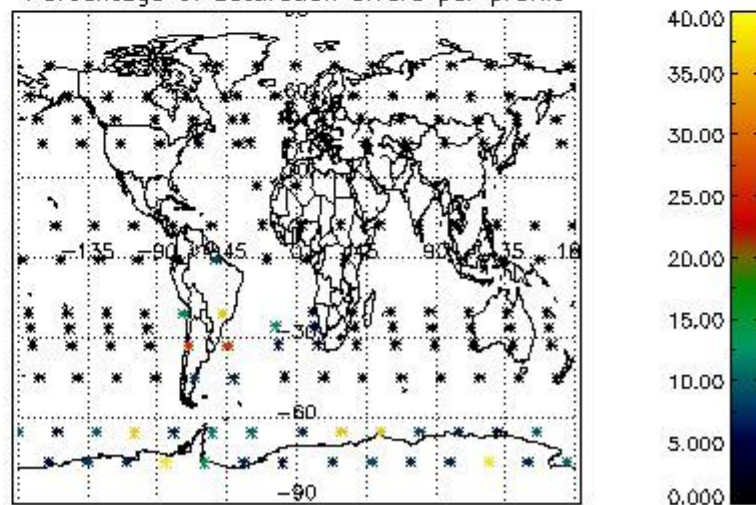
Percentage of datation errors per profile



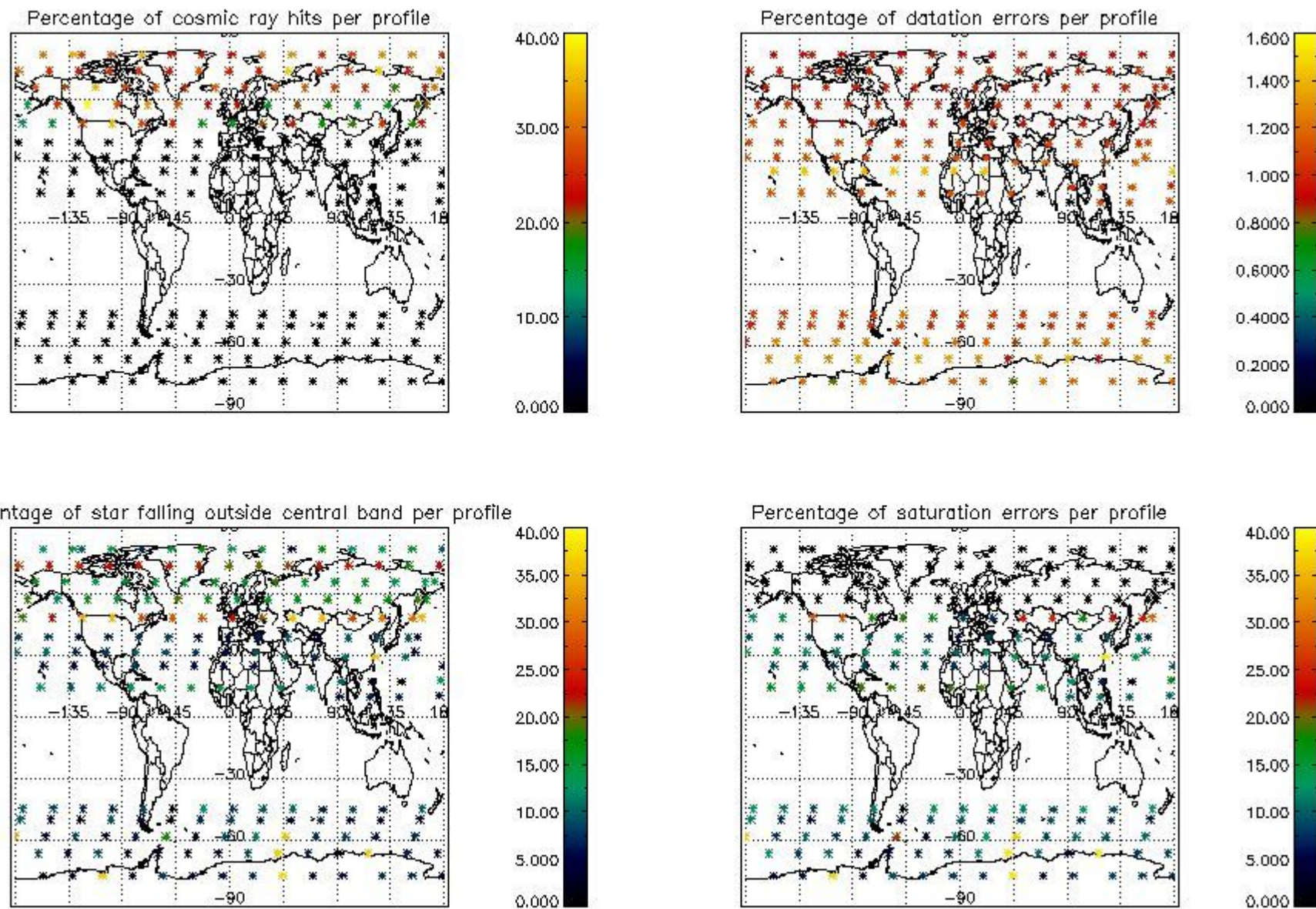
Percentage of star falling outside central band per profile



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

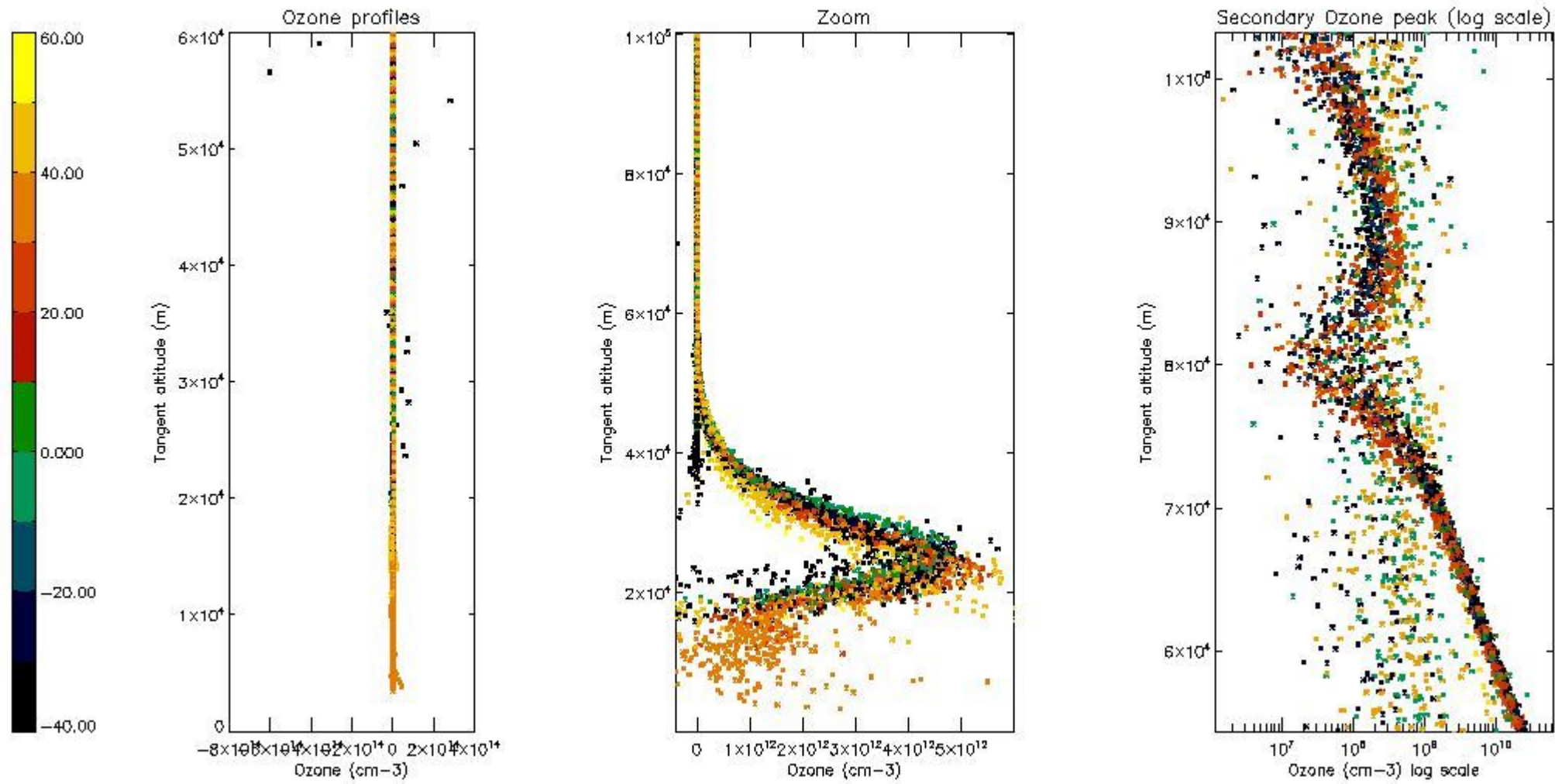
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	28
STD < 20	13

STD < 10	10
STD < 5	7

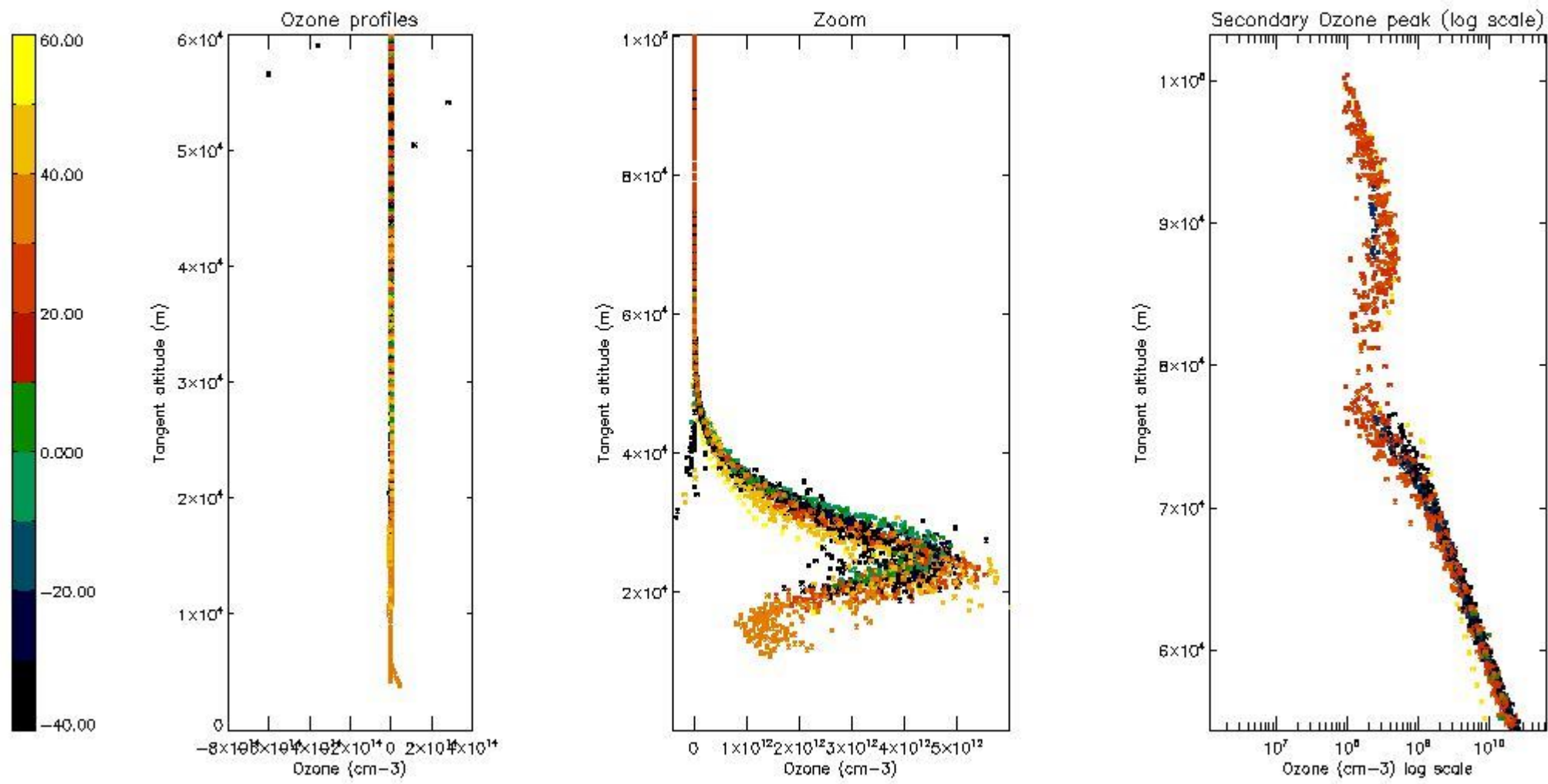
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



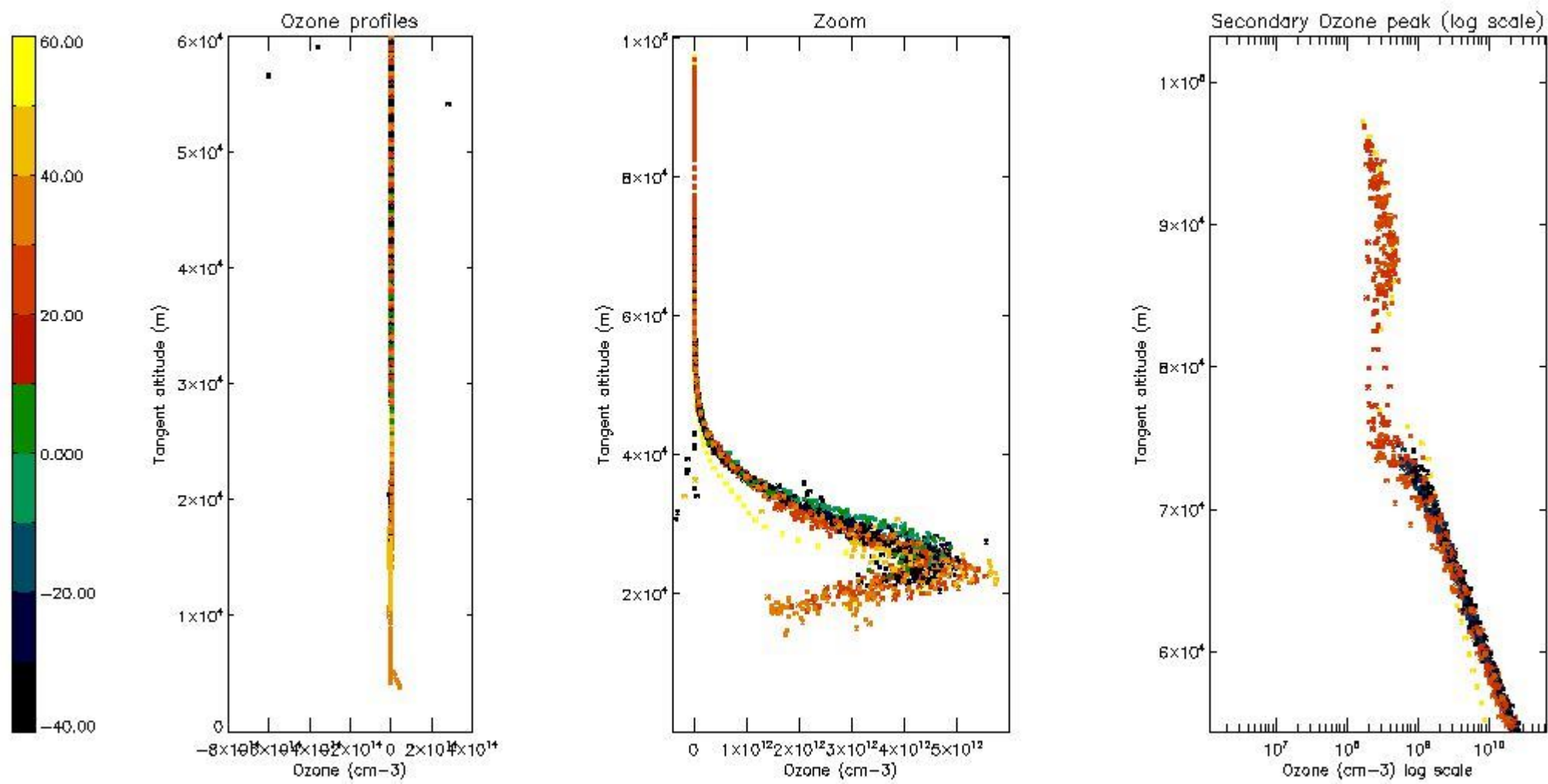
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



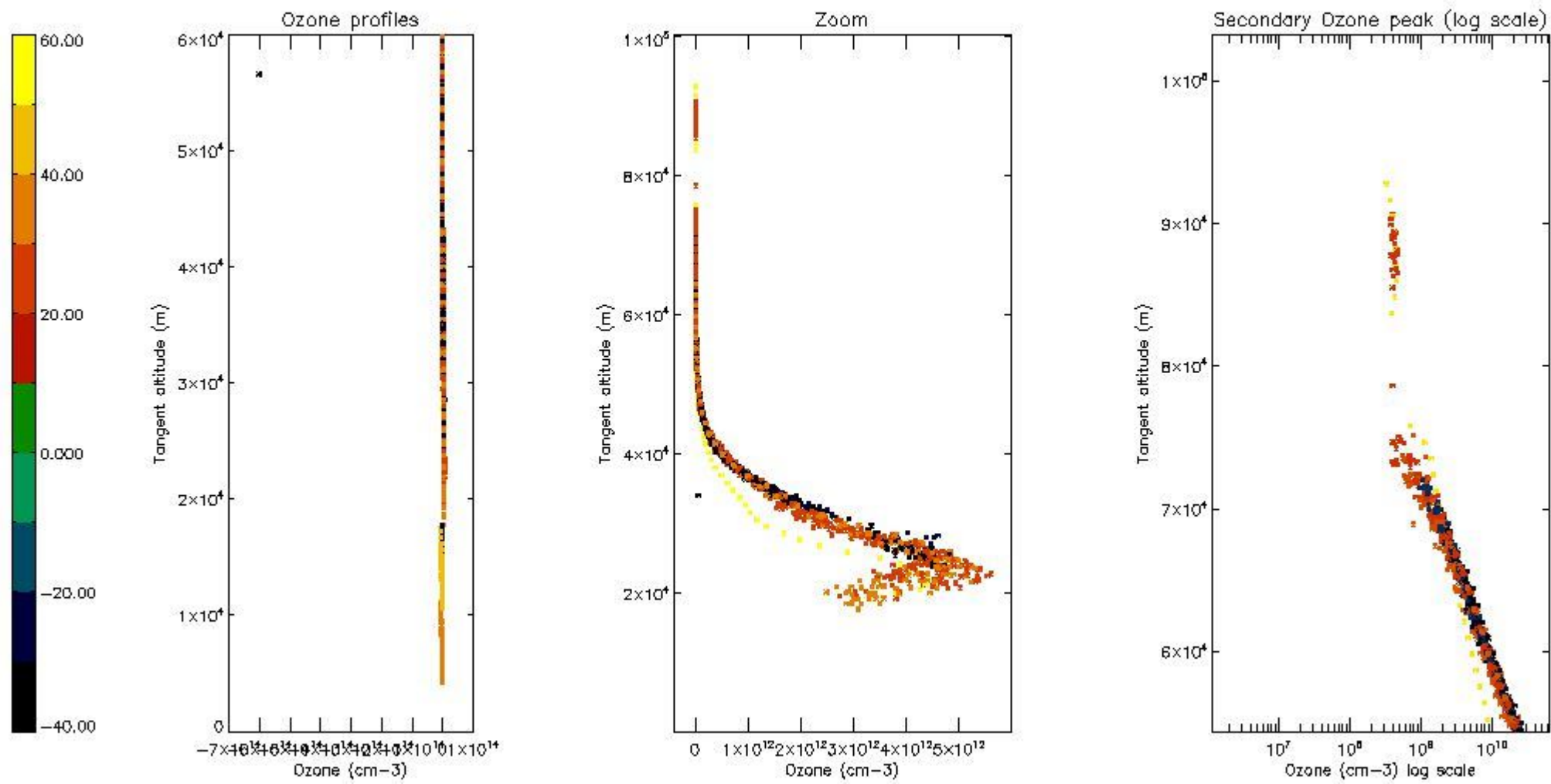
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



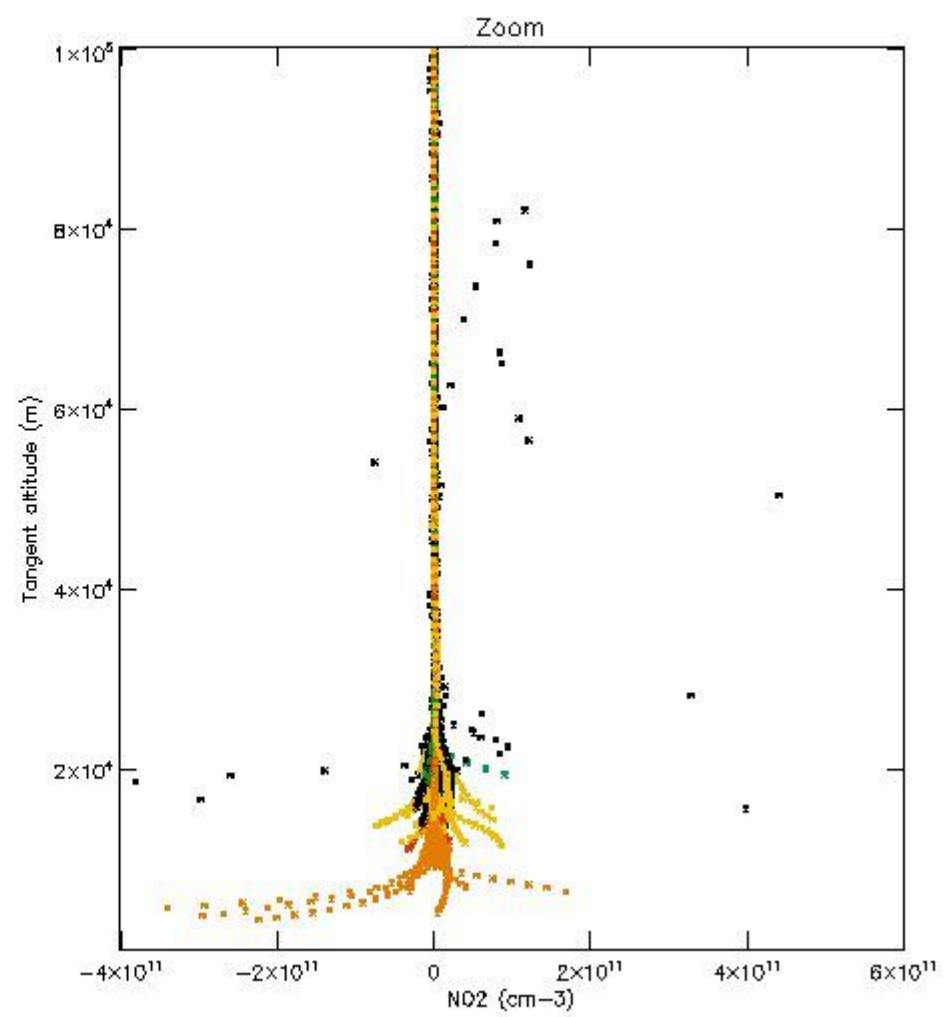
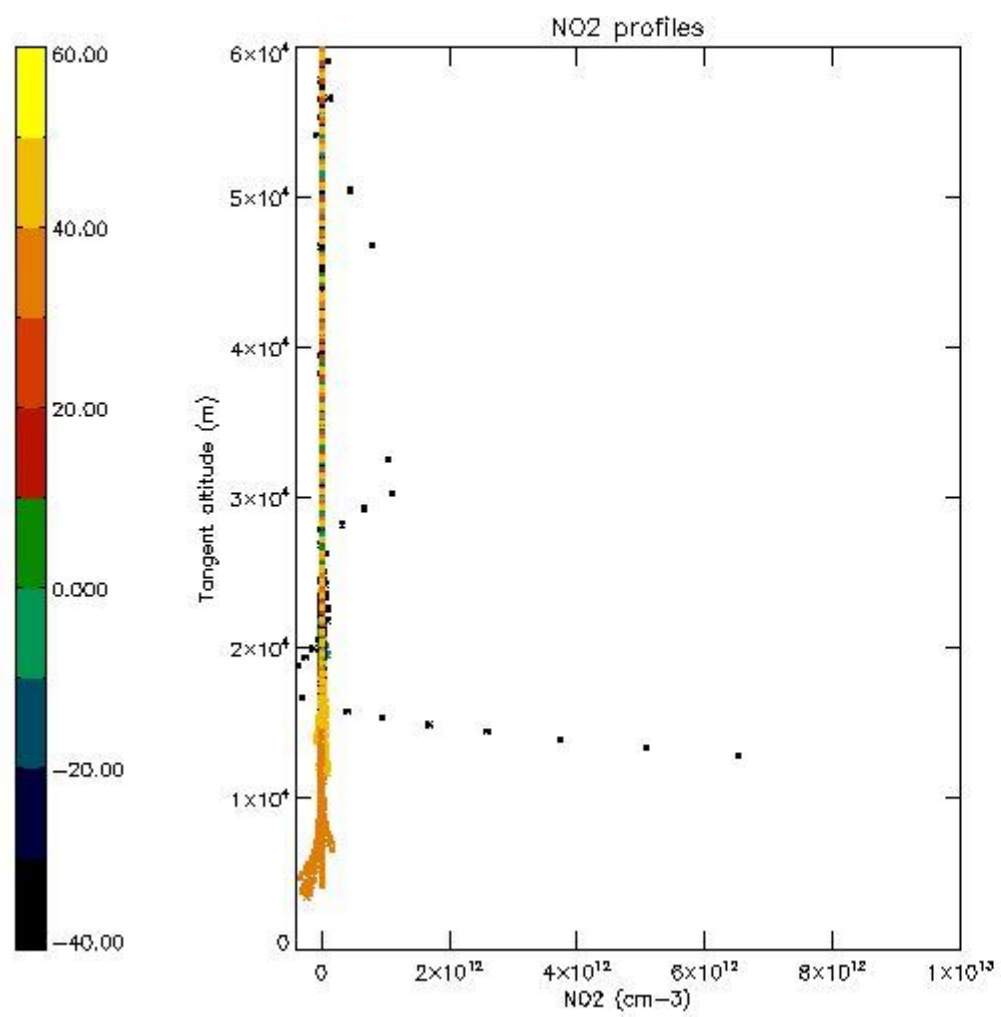
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



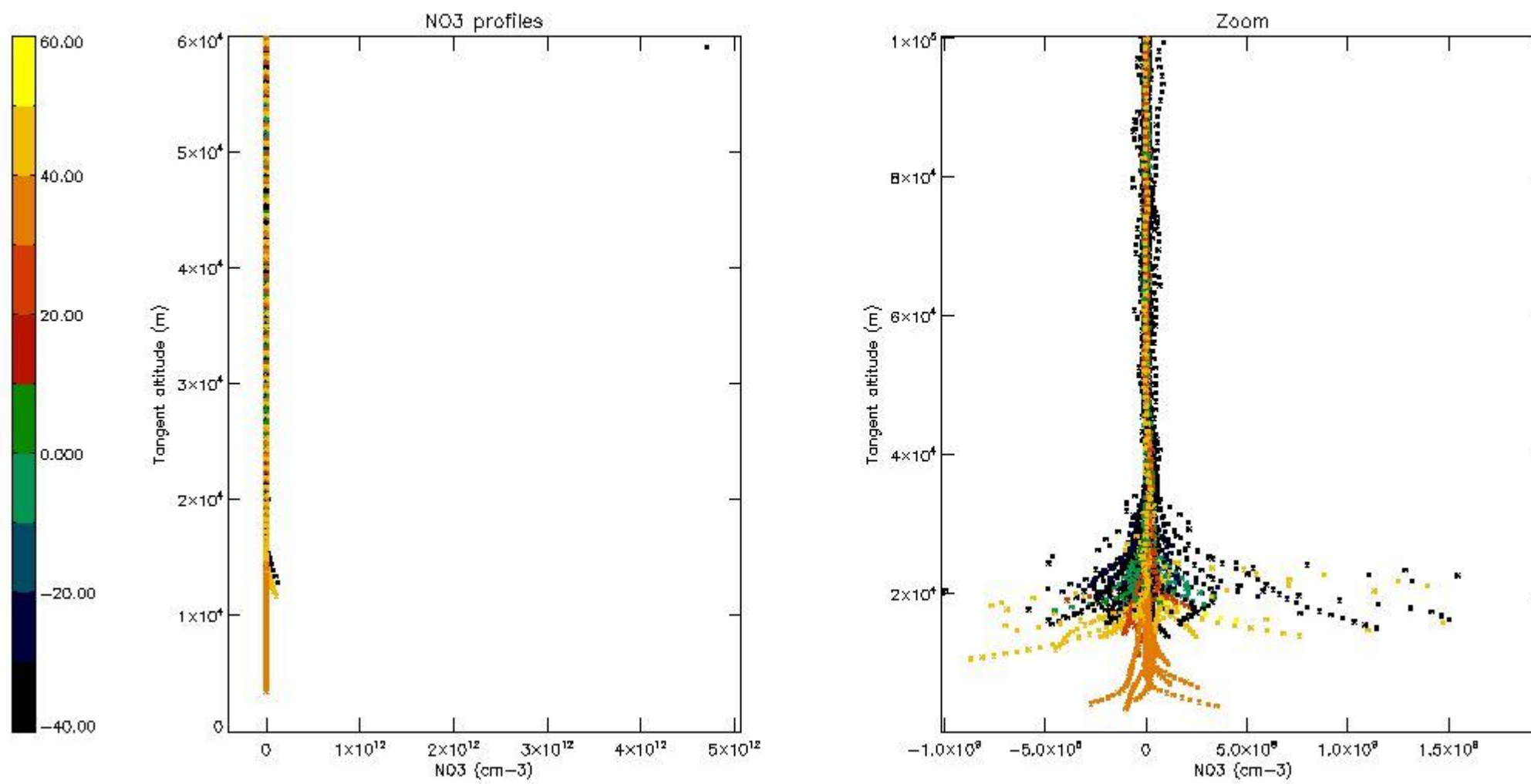
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



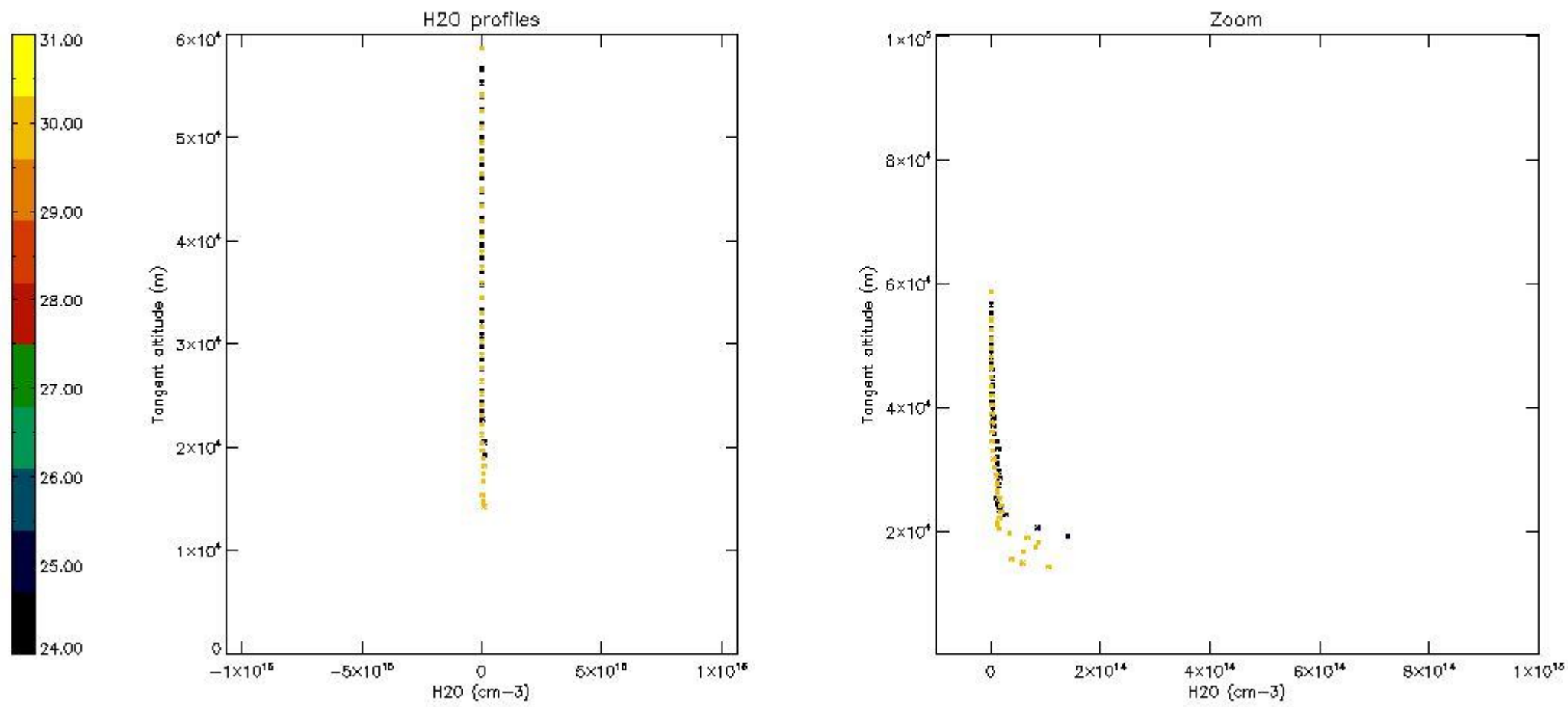
5.7 Plot NO3 profiles for all STD (dark without errors)

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	10-DEC-2008 00:00:37
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	10-DEC-2008 00:00:37
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	10-DEC-2008 00:00:37

GOMOS Level 2 Daily Report

SUMMARY

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[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 23:27:00
Data source version	GOMOS/6.01
Start time of products	10-12-2008 (10DEC2008 00:00:00)
Stop time of products	11-12-2008 (11DEC2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	371
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

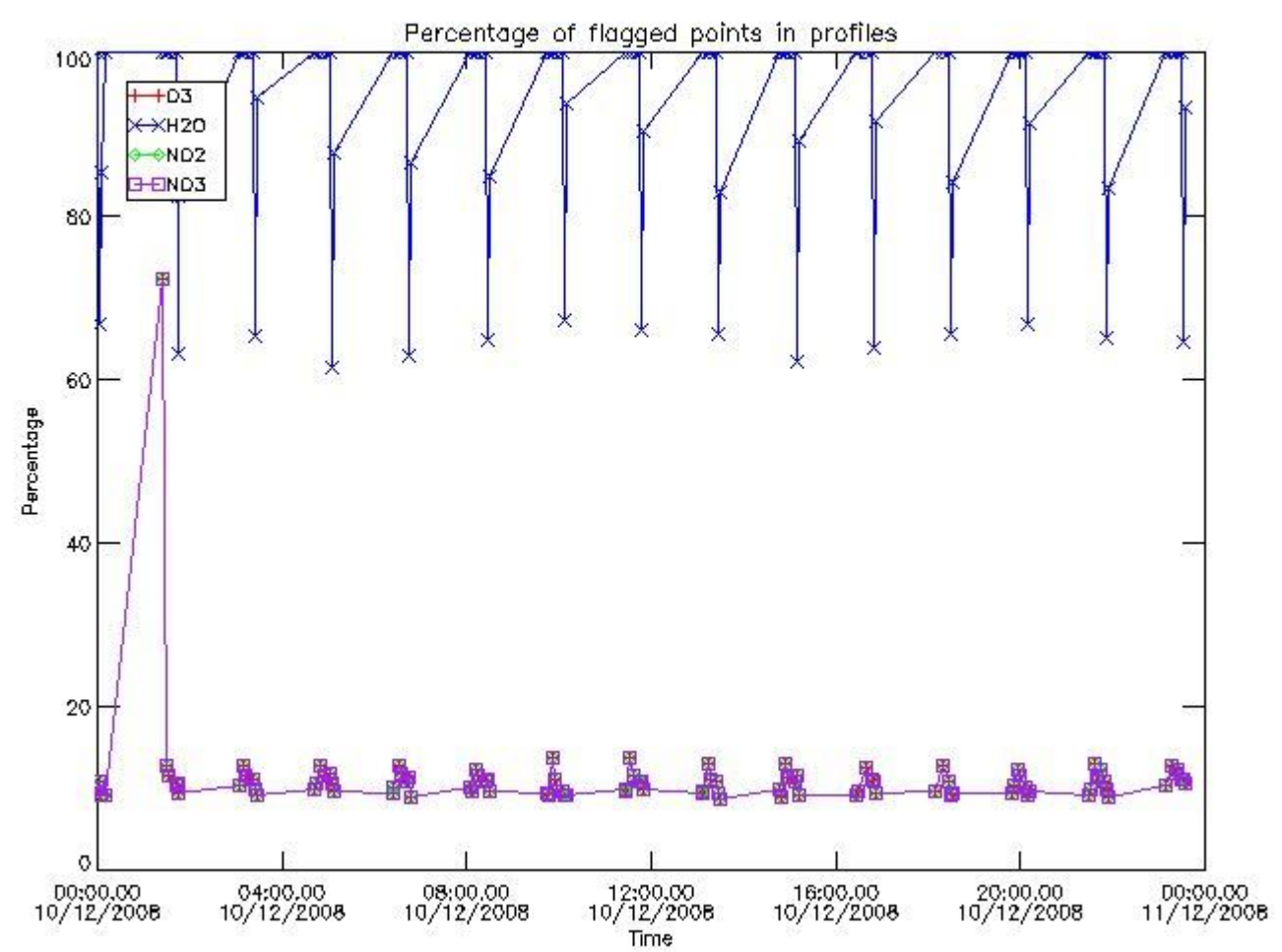
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20081210_000037_000000502074_00317_35441_0541.N1	10-DEC-2008 00:00:37	Dark	50.000	34	Gam2Vel	1.7930	23000.	100	35441	No
2	GOM_NL__2PRFIN20081210_0000313_000000472074_00317_35441_0542.N1	10-DEC-2008 00:03:13	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	35441	No
3	GOM_NL__2PRFIN20081210_000540_000000552074_00317_35441_0543.N1	10-DEC-2008 00:05:40	Dark	55.000	117	Pi Pup	2.7060	3800.0	110	35441	No
4	GOM_NL__2PRFIN20081210_000908_000000562074_00317_35441_0544.N1	10-DEC-2008 00:09:08	Dark	55.500	23	21Eps CMa	1.5020	26000.	111	35441	No
5	GOM_NL__2PRFIN20081210_001408_000000562074_00317_35441_0545.N1	10-DEC-2008 00:14:08	Straylight	55.500	47	2Bet CMa	1.9760	28000.	111	35441	No
6	GOM_NL__2PRFIN20081210_001750_000000512074_00317_35441_0546.N1	10-DEC-2008 00:17:50	Straylight	50.500	7	19Bet Ori	0.10000	14000.	101	35441	No
7	GOM_NL__2PRFIN20081210_002019_000000512074_00317_35441_0547.N1	10-DEC-2008 00:20:19	Straylight	50.500	30	46Eps Ori	1.6940	30000.	101	35441	No
8	GOM_NL__2PRFIN20081210_002247_000000512074_00317_35441_0548.N1	10-DEC-2008 00:22:47	Twilight	51.000	27	24Gam Ori	1.6360	26000.	102	35441	No
9	GOM_NL__2PRFIN20081210_002522_000000522074_00317_35441_0549.N1	10-DEC-2008 00:25:22	Twilight	52.000	13	87Alp Tau	0.86700	3800.0	104	35441	No
10	GOM_NL__2PRFIN20081210_002808_000000482074_00317_35441_0550.N1	10-DEC-2008 00:28:08	Bright	48.000	176	23Zet Tau	3.0200	22000.	96	35441	No
11	GOM_NL__2PRFIN20081210_003044_000000432074_00317_35441_0551.N1	10-DEC-2008 00:30:44	Bright	42.500	114	3lot Aur	2.6930	4600.0	85	35441	No
12	GOM_NL__2PRFIN20081210_003405_000000442074_00317_35441_0552.N1	10-DEC-2008 00:34:05	Bright	44.000	107	37The Aur	2.6490	11000.	88	35441	No
13	GOM_NL__2PRFIN20081210_003610_000000462074_00317_35441_0553.N1	10-DEC-2008 00:36:10	Bright	45.500	42	34Bet Aur	1.9000	10200.	91	35441	No
14	GOM_NL__2PRFIN20081210_005131_000000462074_00317_35441_0554.N1	10-DEC-2008 00:51:31	Bright	45.500	36	50Alp UMa	1.8000	6300.0	91	35441	No
15	GOM_NL__2PRFIN20081210_005302_000000492074_00317_35441_0555.N1	10-DEC-2008 00:53:02	Bright	48.500	82	48Bet UMa	2.3650	10600.	97	35441	No
16	GOM_NL__2PRFIN20081210_005520_000000412074_00317_35441_0556.N1	10-DEC-2008 00:55:20	Bright	41.000	32	77Eps UMa	1.7630	11000.	82	35441	No
17	GOM_NL__2PRFIN20081210_005743_000000562074_00317_35441_0557.N1	10-DEC-2008 00:57:43	Bright	56.000	39	85Eta UMa	1.8540	24000.	112	35441	No
18	GOM_NL__2PRFIN20081210_010116_000000432074_00317_35441_0558.N1	10-DEC-2008 01:01:16	Bright	42.500	152	12Alp2CVn	2.8900	11000.	85	35441	No
19	GOM_NL__2PRFIN20081210_010709_000000372074_00317_35441_0559.N1	10-DEC-2008 01:07:09	Bright	36.500	111	8Eta Boo	2.6800	6000.0	73	35441	No
20	GOM_NL__2PRFIN20081210_011042_000000482074_00317_35441_0560.N1	10-DEC-2008 01:10:42	Bright	47.500	138	47Eps Vir	2.8280	4700.0	95	35441	No
21	GOM_NL__2PRFIN20081210_011635_000000472074_00317_35441_0561.N1	10-DEC-2008 01:16:35	Bright	47.000	15	67Alp Vir	0.97600	28000.	94	35441	No
22	GOM_NL__2PRFIN20081210_012003_000000422074_00317_35441_0562.N1	10-DEC-2008 01:20:03	Twilight	42.000	169	46Gam Hya	2.9910	4700.0	84	35441	No
23	GOM_NL__2PRFIN20081210_012325_000000512074_00317_35441_0563.N1	10-DEC-2008 01:23:25	Dark	51.000	171	2Eps Crv	3.0010	4250.0	102	35441	No
24	GOM_NL__2PRFIN20081210_012903_000000402074_00317_35441_0564.N1	10-DEC-2008 01:29:03	Dark	40.000	99	Del Cen	2.5750	26000.	80	35441	No
25	GOM_NL__2PRFIN20081210_013236_000000452074_00318_35442_0544.N1	10-DEC-2008 01:32:36	Dark	44.500	113	Mu Vel	2.6920	5000.0	89	35442	No
26	GOM_NL__2PRFIN20081210_014114_000000552074_00318_35442_0545.N1	10-DEC-2008 01:41:14	Dark	54.500	34	Gam2Vel	1.7930	23000.	109	35442	No
27	GOM_NL__2PRFIN20081210_014349_000000482074_00318_35442_0546.N1	10-DEC-2008 01:43:49	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	35442	No
28	GOM_NL__2PRFIN20081210_014617_000000552074_00318_35442_0547.N1	10-DEC-2008 01:46:17	Dark	54.500	117	Pi Pup	2.7060	3800.0	109	35442	No
29	GOM_NL__2PRFIN20081210_014944_000000592074_00318_35442_0548.N1	10-DEC-2008 01:49:44	Straylight	59.000	23	21Eps CMa	1.5020	26000.	118	35442	No
30	GOM_NL__2PRFIN20081210_015444_000000552074_00318_35442_0549.N1	10-DEC-2008 01:54:44	Straylight	54.500	47	2Bet CMa	1.9760	28000.	109	35442	No
31	GOM_NL__2PRFIN20081210_015826_000000482074_00318_35442_0550.N1	10-DEC-2008 01:58:26	Straylight	47.500	7	19Bet Ori	0.10000	14000.	95	35442	No
32	GOM_NL__2PRFIN20081210_020055_000000512074_00318_35442_0551.N1	10-DEC-2008 02:00:55	Straylight	50.500	30	46Eps Ori	1.6940	30000.	101	35442	No
33	GOM_NL__2PRFIN20081210_020322_000000522074_00318_35442_0552.N1	10-DEC-2008 02:03:22	Twilight	51.500	27	24Gam Ori	1.6360	26000.	103	35442	No
34	GOM_NL__2PRFIN20081210_020557_000000542074_00318_35442_0553.N1	10-DEC-2008 02:05:57	Twilight	53.500	13	87Alp Tau	0.86700	3800.0	107	35442	No
35	GOM_NL__2PRFIN20081210_020843_000000482074_00318_35442_0554.N1	10-DEC-2008 02:08:43	Bright	47.500	176	23Zet Tau	3.0200	22000.	95	35442	No
36	GOM_NL__2PRFIN20081210_021119_000000592074_00318_35442_0555.N1	10-DEC-2008 02:11:19	Bright	59.000	114	3lot Aur	2.6930	4600.0	118	35442	No
37	GOM_NL__2PRFIN20081210_021440_000000472074_00318_35442_0556.N1	10-DEC-2008 02:14:40	Bright	46.500	107	37The Aur	2.6490	11000.	93	35442	No
38	GOM_NL__2PRFIN20081210_021645_000000462074_00318_35442_0557.N1	10-DEC-2008 02:16:45	Bright	46.000	42	34Bet Aur	1.9000	10200.	92	35442	No
39	GOM_NL__2PRFIN20081210_023206_000000472074_00318_35442_0558.N1	10-DEC-2008 02:32:06	Bright	47.000	36	50Alp UMa	1.8000	6300.0	94	35442	No
40	GOM_NL__2PRFIN20081210_023337_000000492074_00318_35442_0559.N1	10-DEC-2008 02:33:37	Bright	48.500	82	48Bet UMa	2.3650	10600.	97	35442	No
41	GOM_NL__2PRFIN20081210_023556_000000422074_00318_35442_0560.N1	10-DEC-2008 02:35:56	Bright	42.000	32	77Eps UMa	1.7630	11000.	84	35442	No
42	GOM_NL__2PRFIN20081210_023819_000000362074_00318_35442_0561.N1	10-DEC-2008 02:38:19	Bright	36.000	39	85Eta UMa	1.8540	24000.	72	35442	No

338	GOM_NL__2PRFIN20081210_220157_000000552074_00330_35454_0598.N1	10-DEC-2008 22:01:57	Straylight	55.000	47	2Bet CMa	1.9760	28000.	110	35454	No
339	GOM_NL__2PRFIN20081210_220537_000000512074_00330_35454_0599.N1	10-DEC-2008 22:05:37	Straylight	50.500	7	19Bet Ori	0.10000	14000.	101	35454	No
340	GOM_NL__2PRFIN20081210_220804_000000512074_00330_35454_0600.N1	10-DEC-2008 22:08:04	Straylight	51.000	30	46Eps Ori	1.6940	30000.	102	35454	No
341	GOM_NL__2PRFIN20081210_221031_000000512074_00330_35454_0601.N1	10-DEC-2008 22:10:31	Twilight	51.000	27	24Gam Ori	1.6360	26000.	102	35454	No
342	GOM_NL__2PRFIN20081210_221307_000000452074_00330_35454_0602.N1	10-DEC-2008 22:13:07	Twilight	45.000	13	87Alp Tau	0.86700	3800.0	90	35454	No
343	GOM_NL__2PRFIN20081210_221548_000000462074_00330_35454_0603.N1	10-DEC-2008 22:15:48	Bright	46.000	176	23Zet Tau	3.0200	22000.	92	35454	No
344	GOM_NL__2PRFIN20081210_221749_000000462074_00330_35454_0604.N1	10-DEC-2008 22:17:49	Bright	45.500	28	12Bet Tau	1.6500	15200.	91	35454	No
345	GOM_NL__2PRFIN20081210_221941_000000352074_00330_35454_0605.N1	10-DEC-2008 22:19:41	Bright	35.000	149	45Eps Per	2.8880	30000.	70	35454	No
346	GOM_NL__2PRFIN20081210_222142_000000512074_00330_35454_0606.N1	10-DEC-2008 22:21:42	Bright	51.000	107	37The Aur	2.6490	11000.	102	35454	No
347	GOM_NL__2PRFIN20081210_222348_000000452074_00330_35454_0607.N1	10-DEC-2008 22:23:48	Bright	45.000	42	34Bet Aur	1.9000	10200.	90	35454	No
348	GOM_NL__2PRFIN20081210_223912_000000482074_00330_35454_0608.N1	10-DEC-2008 22:39:12	Bright	47.500	36	50Alp UMa	1.8000	6300.0	95	35454	No
349	GOM_NL__2PRFIN20081210_224042_000000482074_00330_35454_0609.N1	10-DEC-2008 22:40:42	Bright	48.000	82	48Bet UMa	2.3650	10600.	96	35454	No
350	GOM_NL__2PRFIN20081210_224305_000000422074_00330_35454_0610.N1	10-DEC-2008 22:43:05	Bright	42.000	32	77Eps UMa	1.7630	11000.	84	35454	No
351	GOM_NL__2PRFIN20081210_224530_000000392074_00330_35454_0611.N1	10-DEC-2008 22:45:30	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	35454	No
352	GOM_NL__2PRFIN20081210_224903_000000432074_00330_35454_0612.N1	10-DEC-2008 22:49:03	Bright	43.000	152	12Alp2CVn	2.8900	11000.	86	35454	No
353	GOM_NL__2PRFIN20081210_225459_000000382074_00330_35454_0613.N1	10-DEC-2008 22:54:59	Bright	37.500	111	8Eta Boo	2.6800	6000.0	75	35454	No
354	GOM_NL__2PRFIN20081210_225836_000000472074_00330_35454_0614.N1	10-DEC-2008 22:58:36	Bright	46.500	138	47Eps Vir	2.8280	4700.0	93	35454	No
355	GOM_NL__2PRFIN20081210_230430_000000512074_00330_35454_0615.N1	10-DEC-2008 23:04:30	Twilight	50.500	15	67Alp Vir	0.97600	28000.	101	35454	No
356	GOM_NL__2PRFIN20081210_230758_000000412074_00330_35454_0616.N1	10-DEC-2008 23:07:58	Twilight	41.000	169	46Gam Hya	2.9910	4700.0	82	35454	No
357	GOM_NL__2PRFIN20081210_230950_000000492074_00330_35454_0617.N1	10-DEC-2008 23:09:50	Dark	49.000	100	4Gam Crv	2.5800	13100.	98	35454	No
358	GOM_NL__2PRFIN20081210_231658_000000402074_00330_35454_0618.N1	10-DEC-2008 23:16:58	Dark	40.000	99	Del Cen	2.5750	26000.	80	35454	No
359	GOM_NL__2PRFIN20081210_232034_000000432074_00331_35455_0596.N1	10-DEC-2008 23:20:34	Dark	43.000	113	Mu Vel	2.6920	5000.0	86	35455	No
360	GOM_NL__2PRFIN20081210_232439_000000422074_00331_35455_0597.N1	10-DEC-2008 23:24:39	Dark	41.500	71	lot Car	2.2460	7700.0	83	35455	No
361	GOM_NL__2PRFIN20081210_232911_000000462074_00331_35455_0598.N1	10-DEC-2008 23:29:11	Dark	45.500	34	Gam2Vel	1.7930	23000.	91	35455	No
362	GOM_NL__2PRFIN20081210_233142_000000462074_00331_35455_0599.N1	10-DEC-2008 23:31:42	Dark	45.500	2	Alp Car	-0.73600	7000.0	91	35455	No
363	GOM_NL__2PRFIN20081210_233412_000000532074_00331_35455_0600.N1	10-DEC-2008 23:34:12	Dark	53.000	117	Pi Pup	2.7060	3800.0	106	35455	No
364	GOM_NL__2PRFIN20081210_233738_000000562074_00331_35455_0601.N1	10-DEC-2008 23:37:38	Straylight	55.500	23	21Eps CMa	1.5020	26000.	111	35455	No
365	GOM_NL__2PRFIN20081210_234233_000000522074_00331_35455_0602.N1	10-DEC-2008 23:42:33	Straylight	52.000	47	2Bet CMa	1.9760	28000.	104	35455	No
366	GOM_NL__2PRFIN20081210_234613_000000522074_00331_35455_0603.N1	10-DEC-2008 23:46:13	Straylight	52.000	7	19Bet Ori	0.10000	14000.	104	35455	No
367	GOM_NL__2PRFIN20081210_234840_000000502074_00331_35455_0604.N1	10-DEC-2008 23:48:40	Straylight	49.500	30	46Eps Ori	1.6940	30000.	99	35455	No
368	GOM_NL__2PRFIN20081210_235106_000000502074_00331_35455_0605.N1	10-DEC-2008 23:51:06	Twilight	49.500	27	24Gam Ori	1.6360	26000.	99	35455	No
369	GOM_NL__2PRFIN20081210_235343_000000562074_00331_35455_0606.N1	10-DEC-2008 23:53:43	Twilight	56.000	13	87Alp Tau	0.86700	3800.0	112	35455	No
370	GOM_NL__2PRFIN20081210_235623_000000462074_00331_35455_0607.N1	10-DEC-2008 23:56:23	Bright	45.500	176	23Zet Tau	3.0200	22000.	91	35455	No
371	GOM_NL__2PRFIN20081210_235824_000000442074_00331_35455_0608.N1	10-DEC-2008 23:58:24	Bright	44.000	28	12Bet Tau	1.6500	15200.	88	35455	No

3. Quality information per product

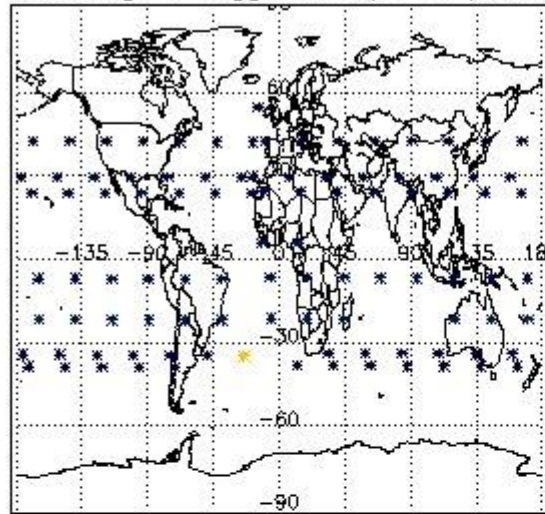
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

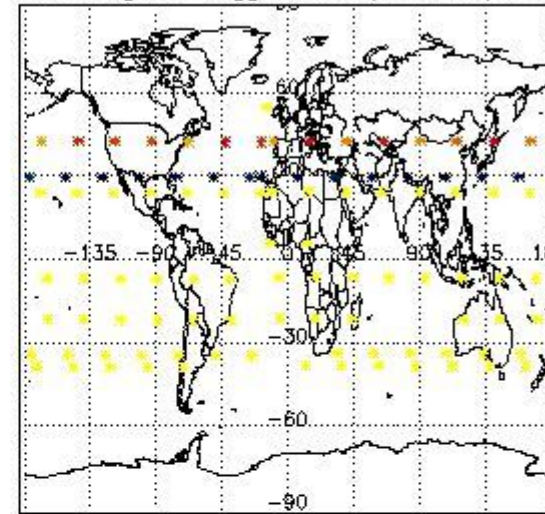


3.2 Plot quality information per product (world map)

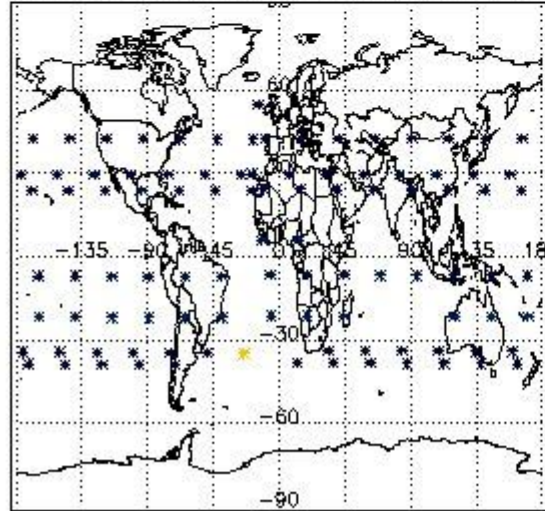
Percentage of flagged data per O3 profile



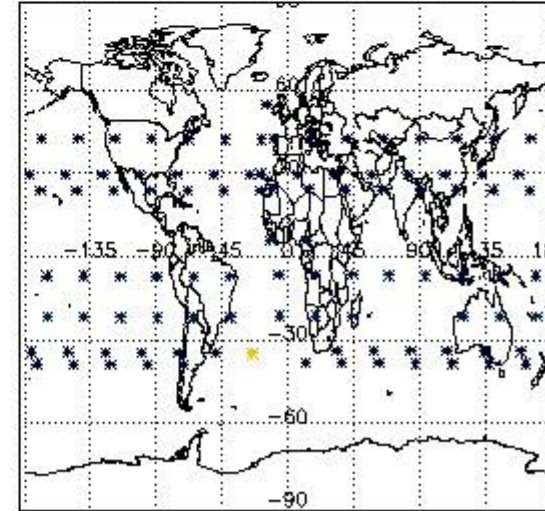
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

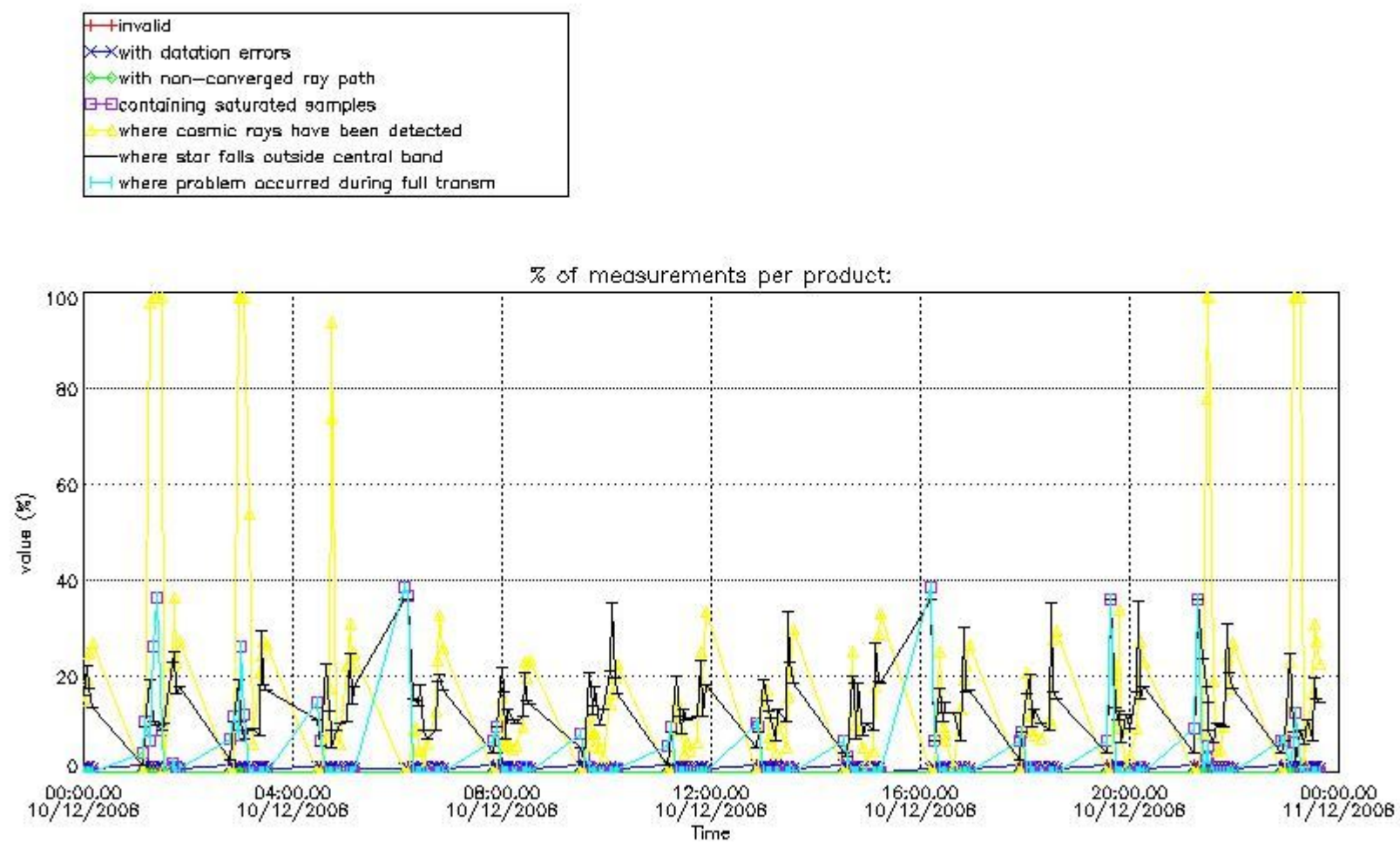


4. Level 1 quality information per product

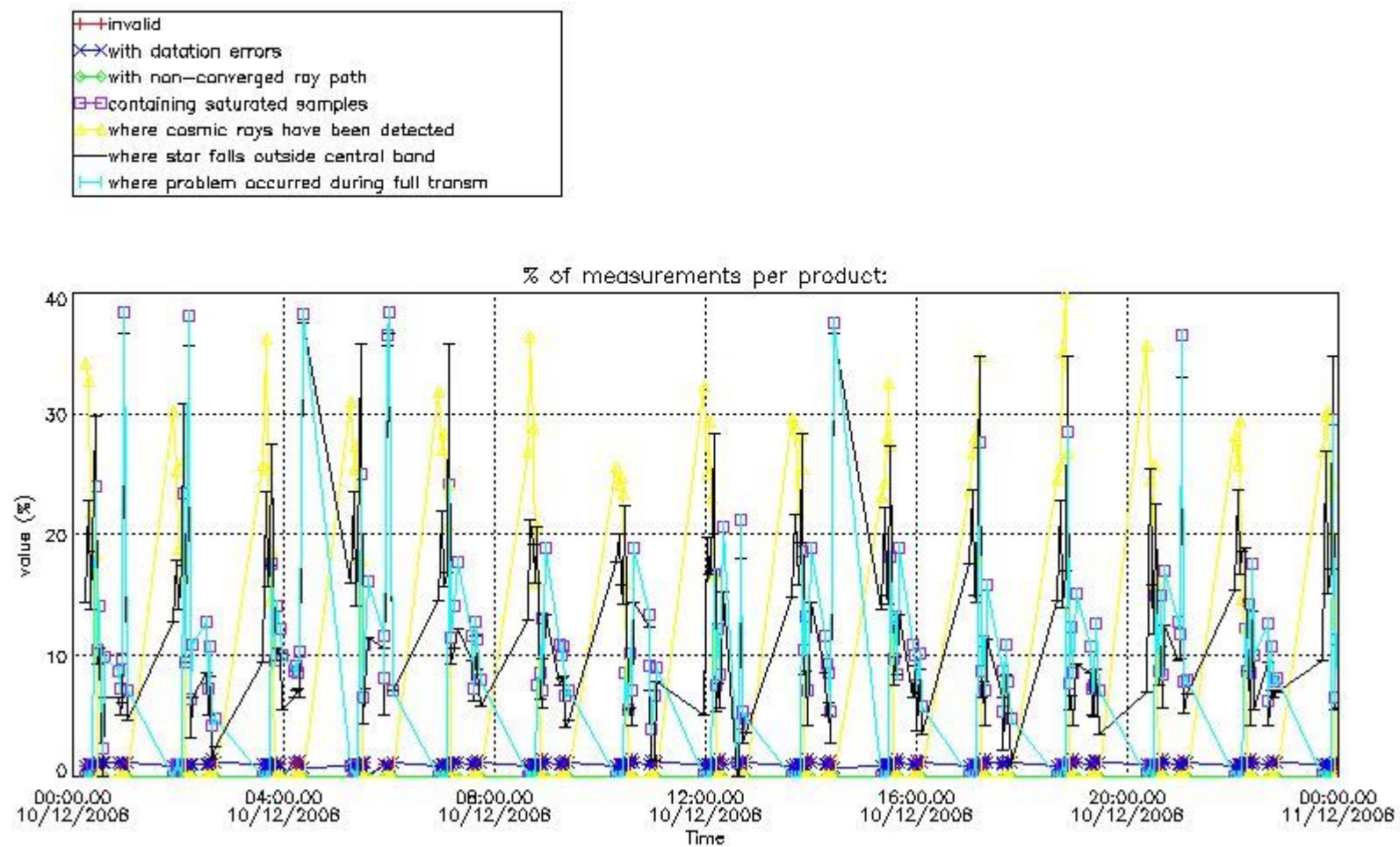
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

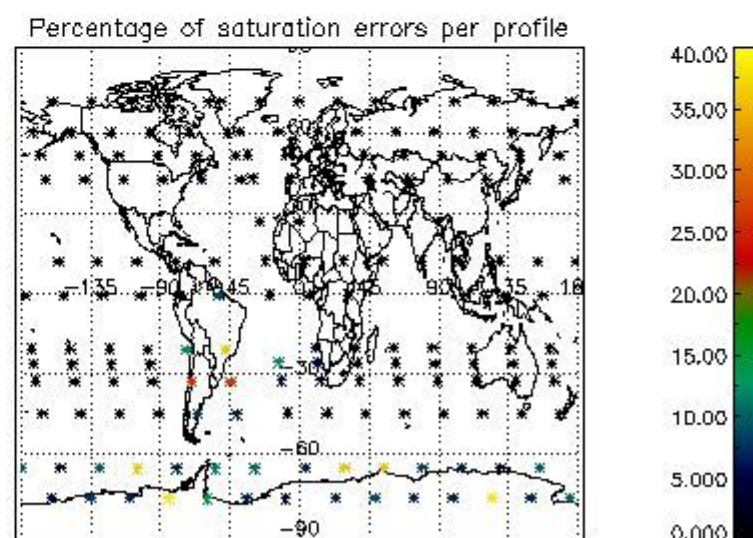
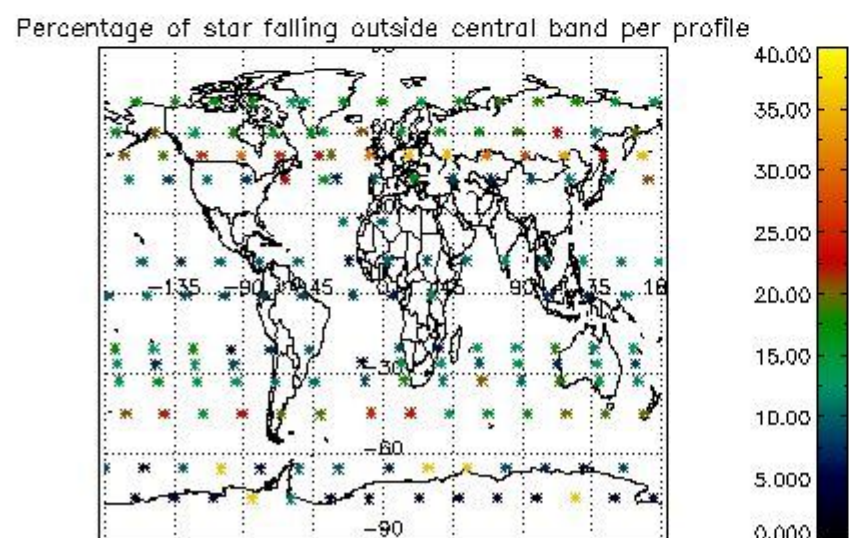
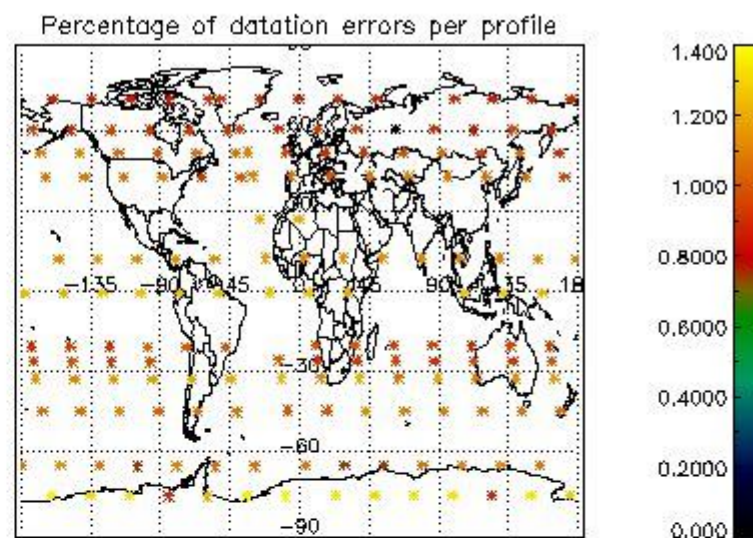
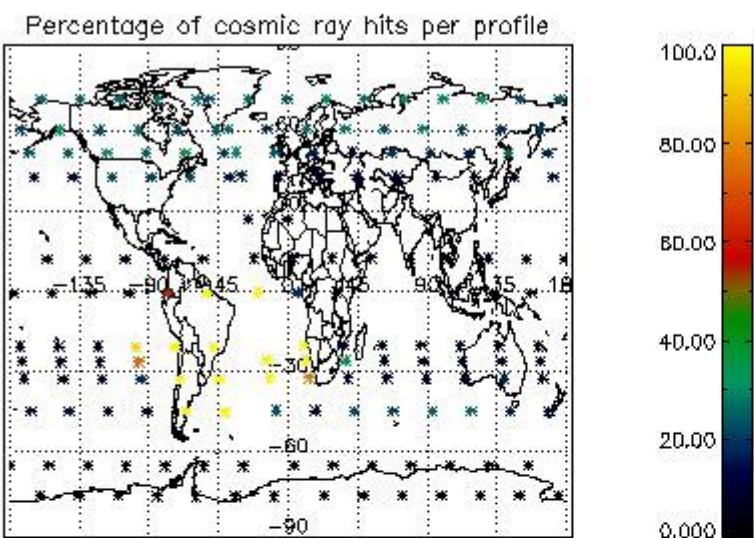


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

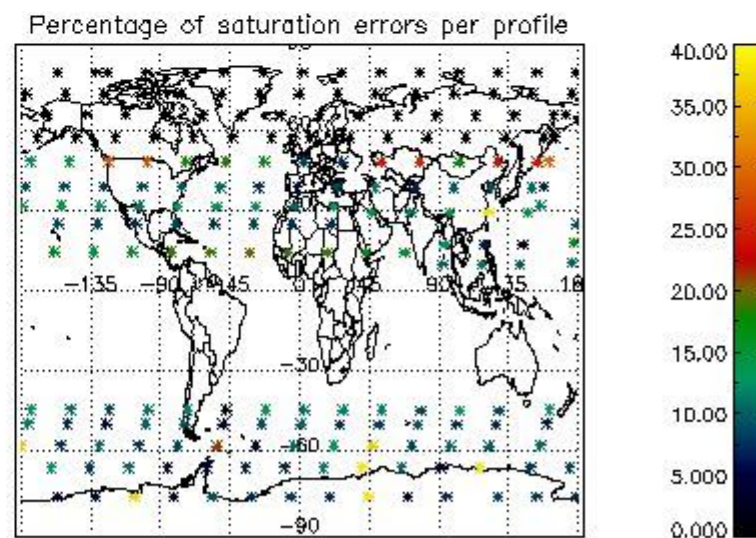
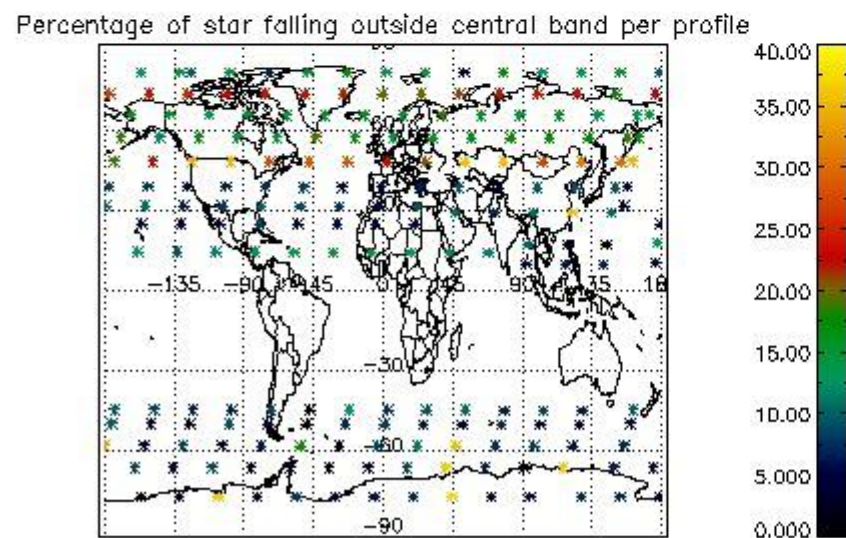
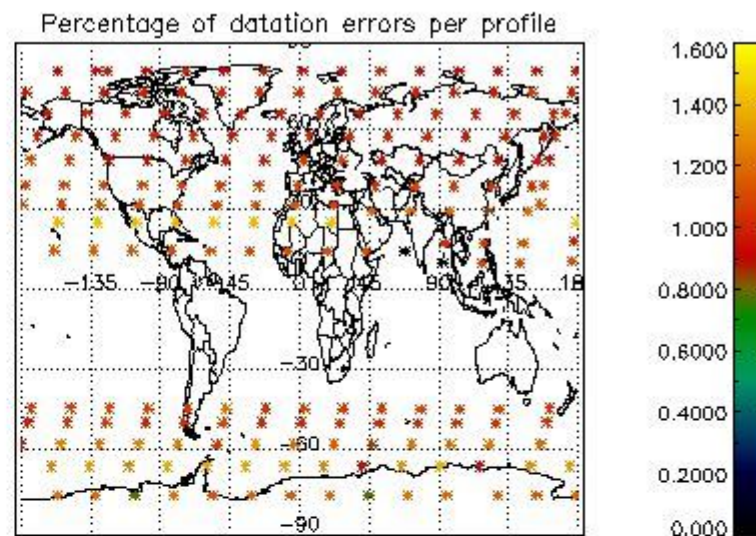
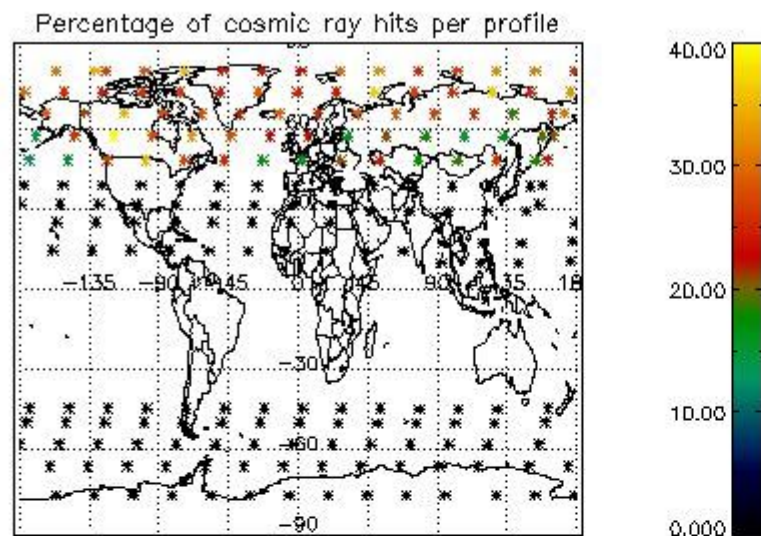


4.2 Plot quality information per product coming from level 1b processing (world map)

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

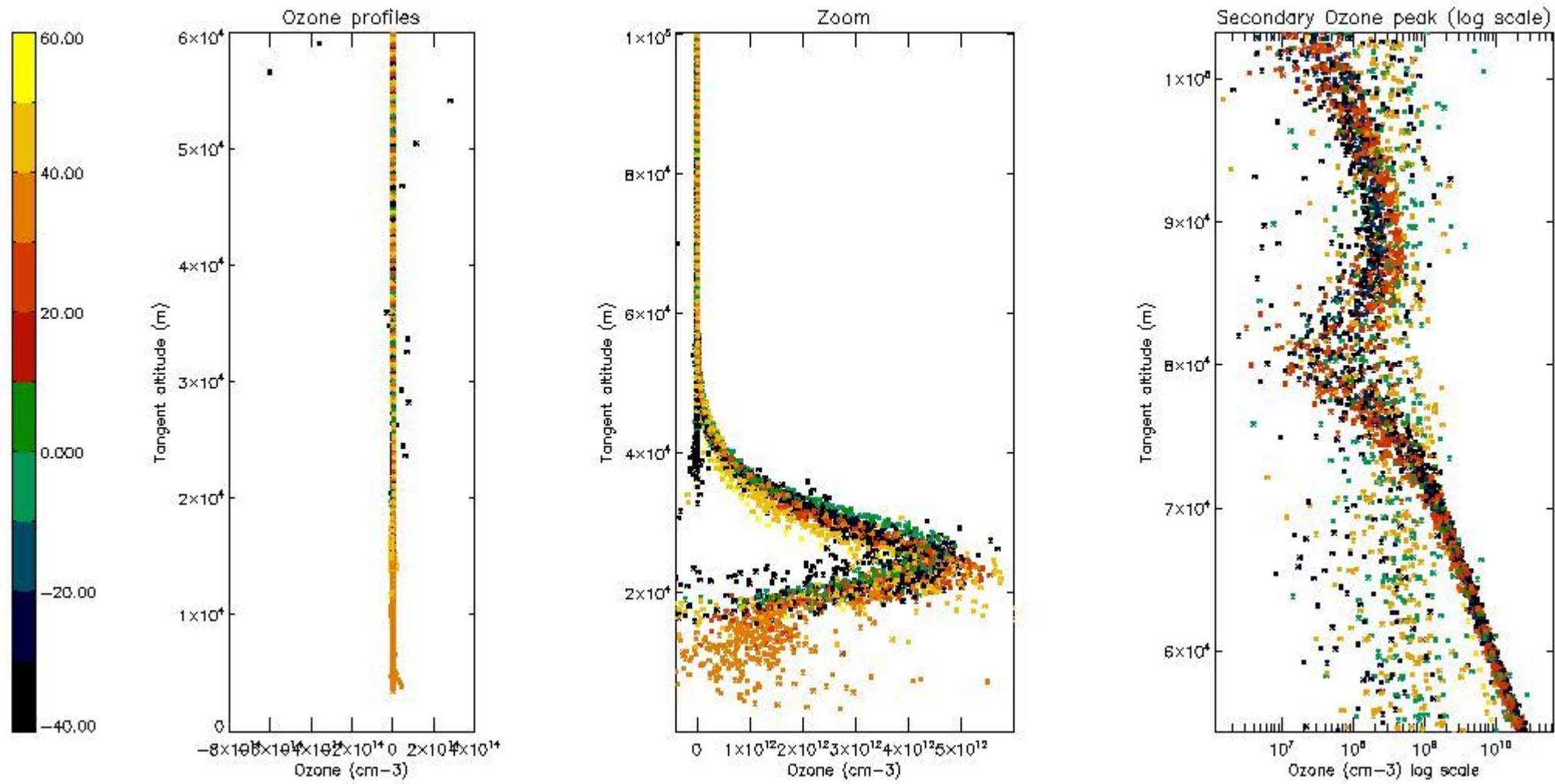
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	28
STD < 20	13

STD < 10	10
STD < 5	7

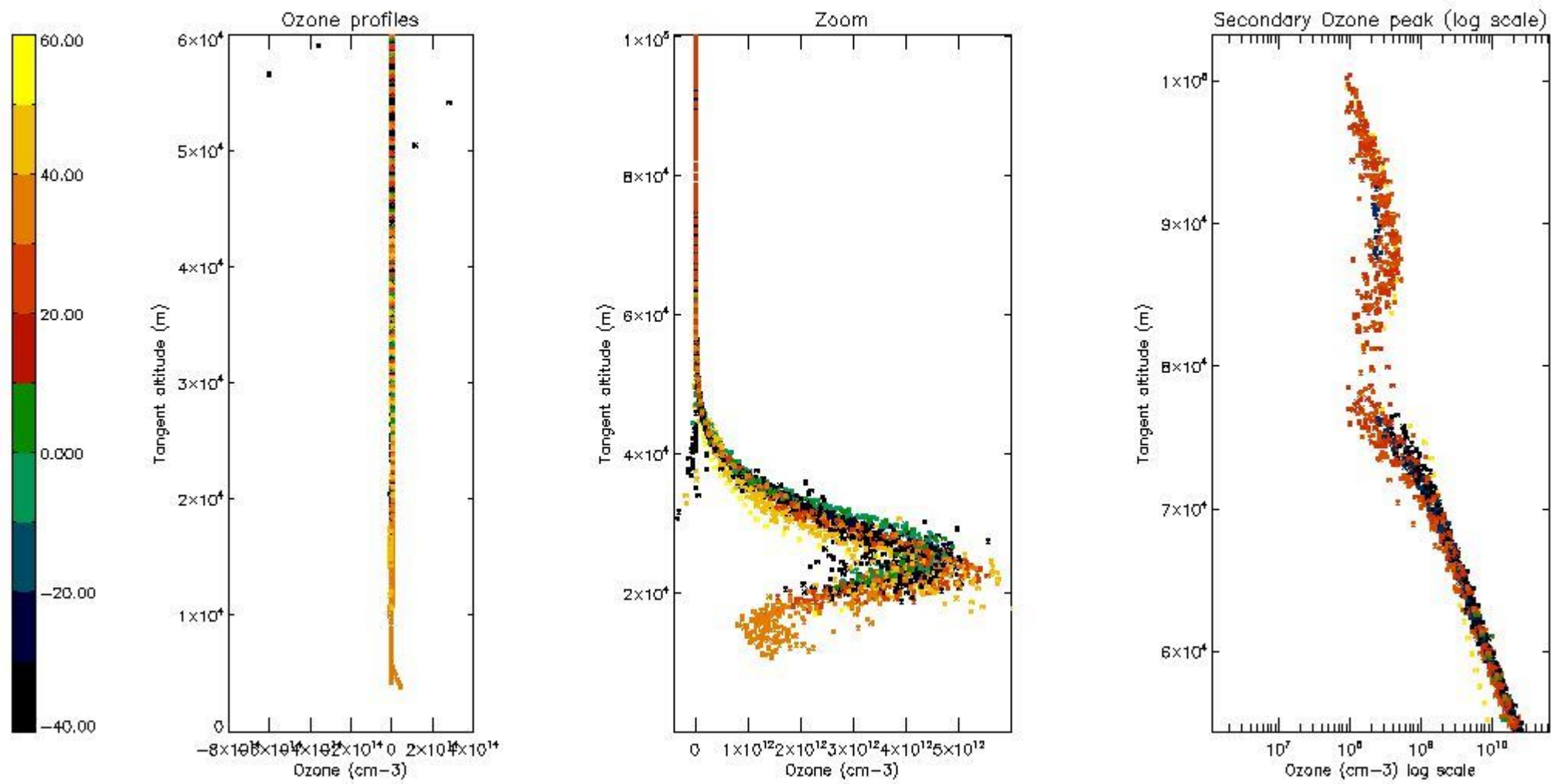
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



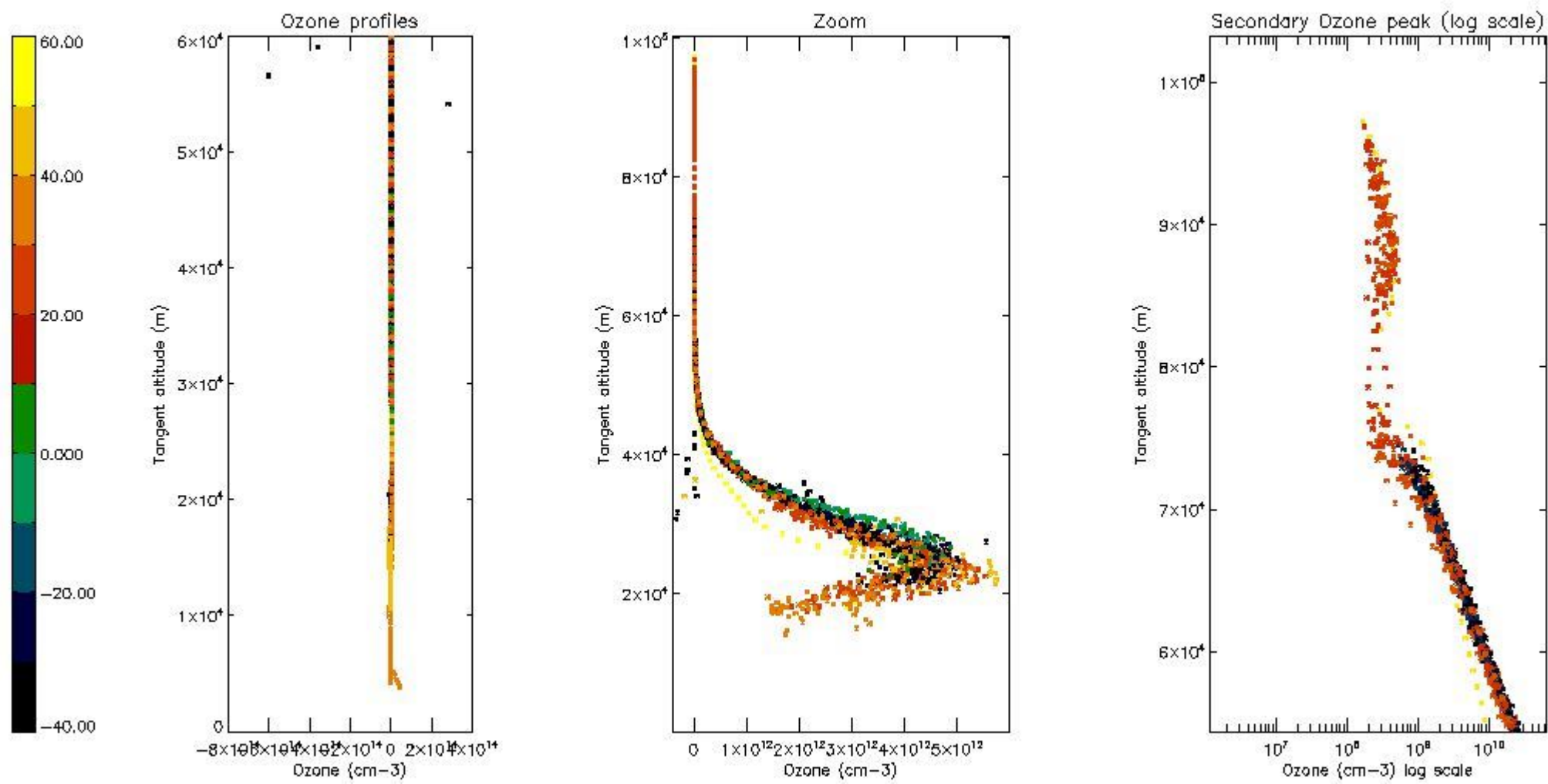
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



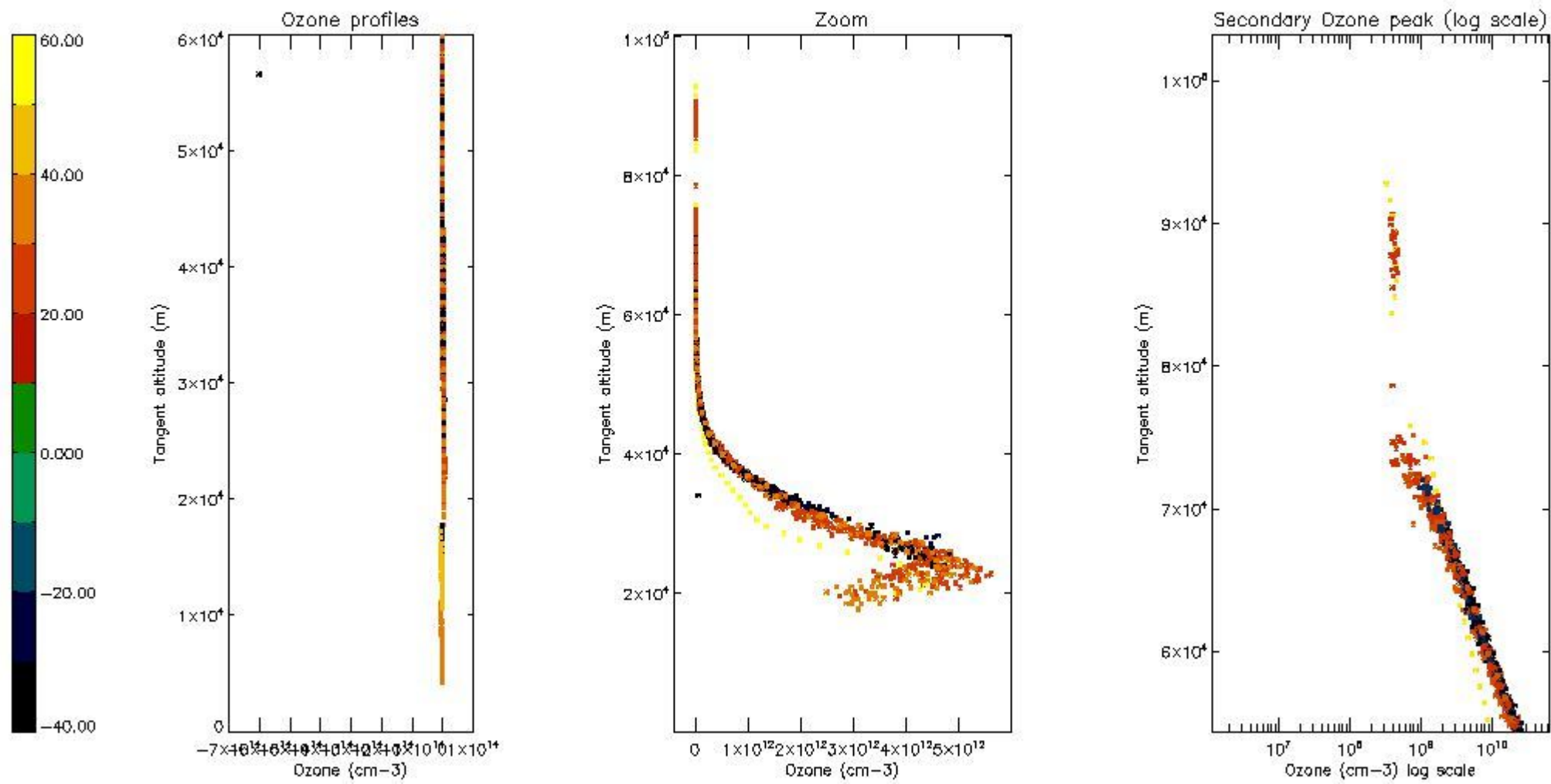
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



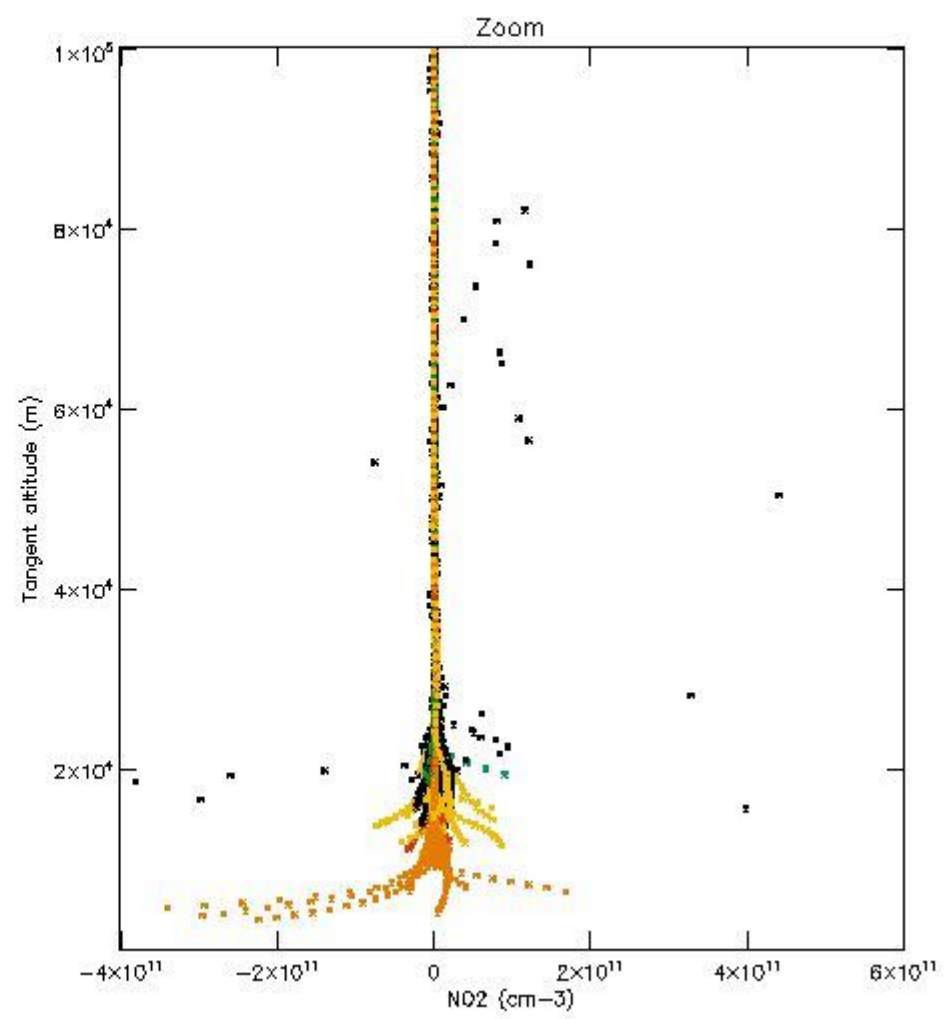
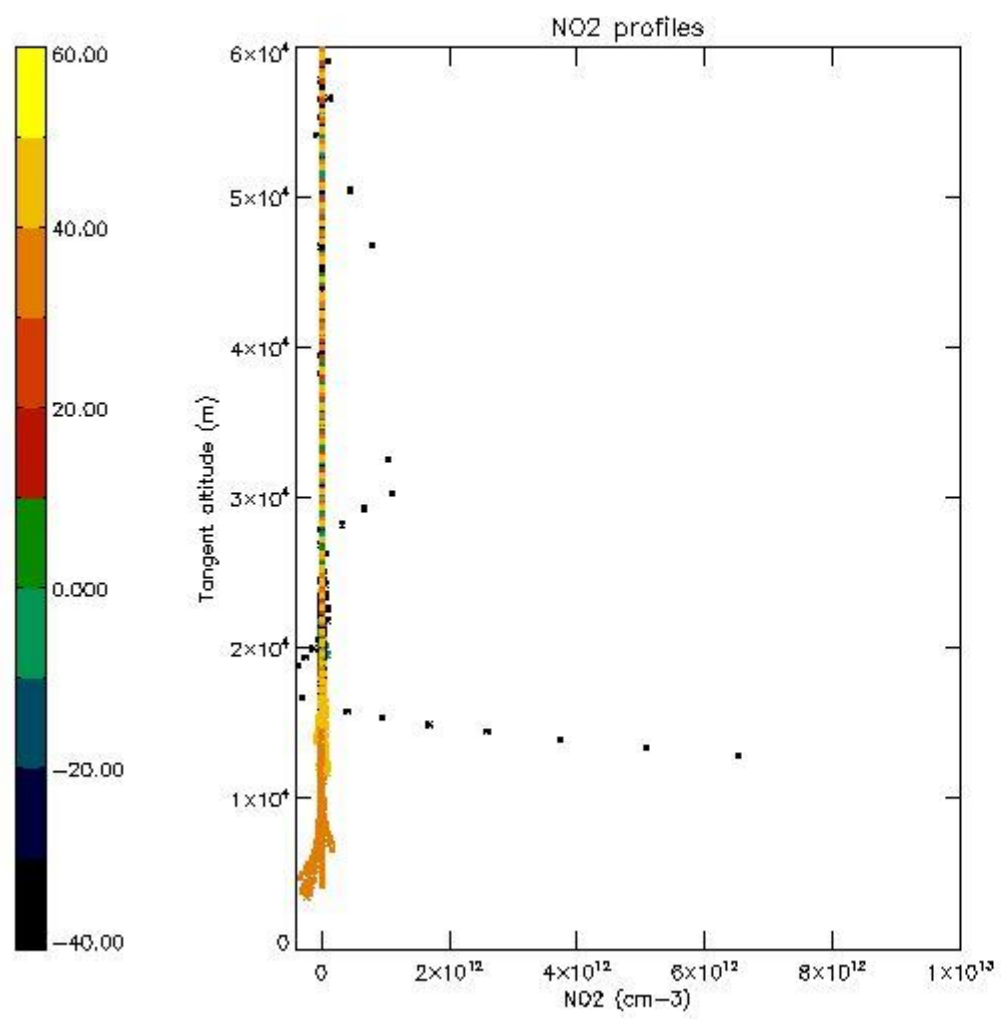
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



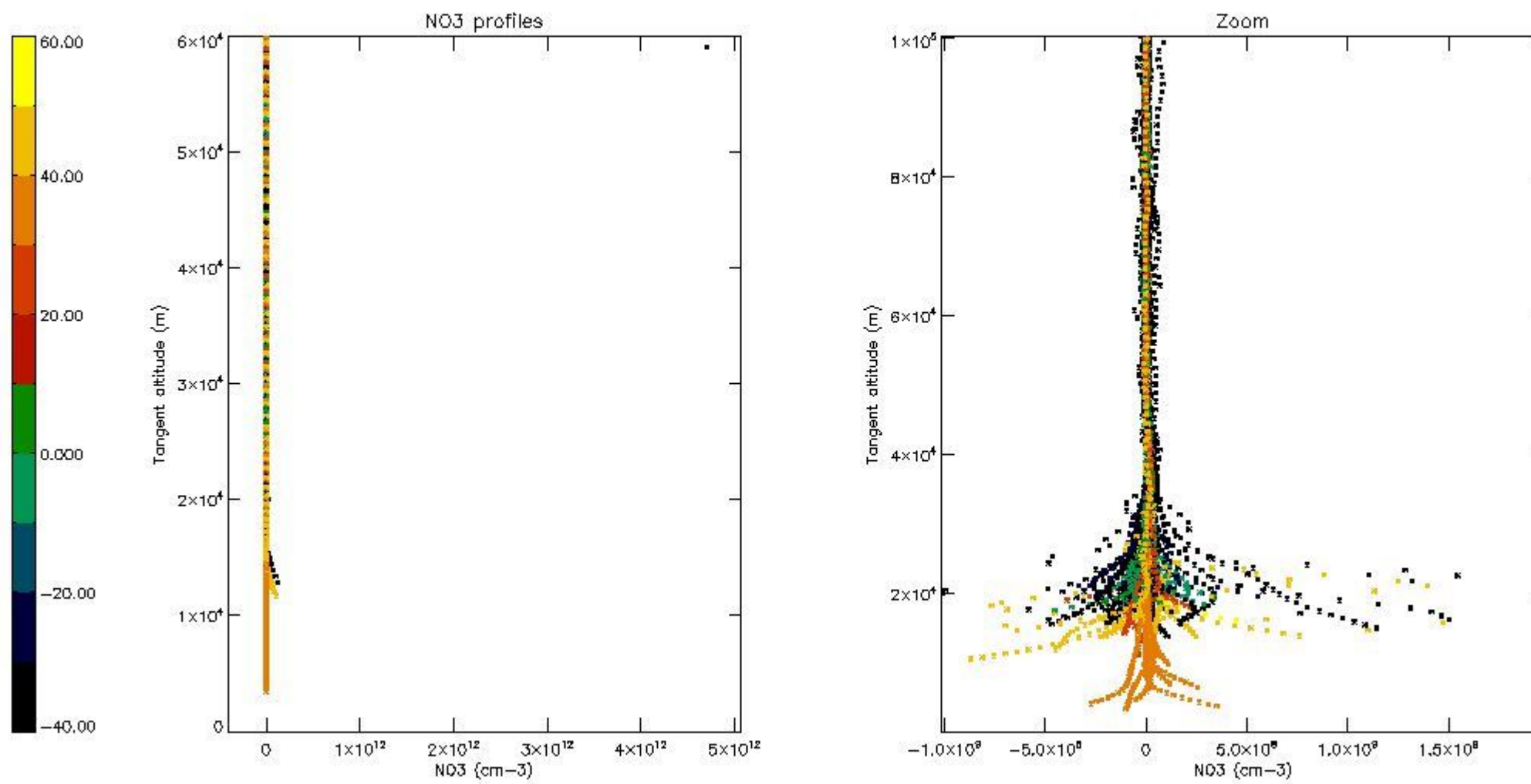
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



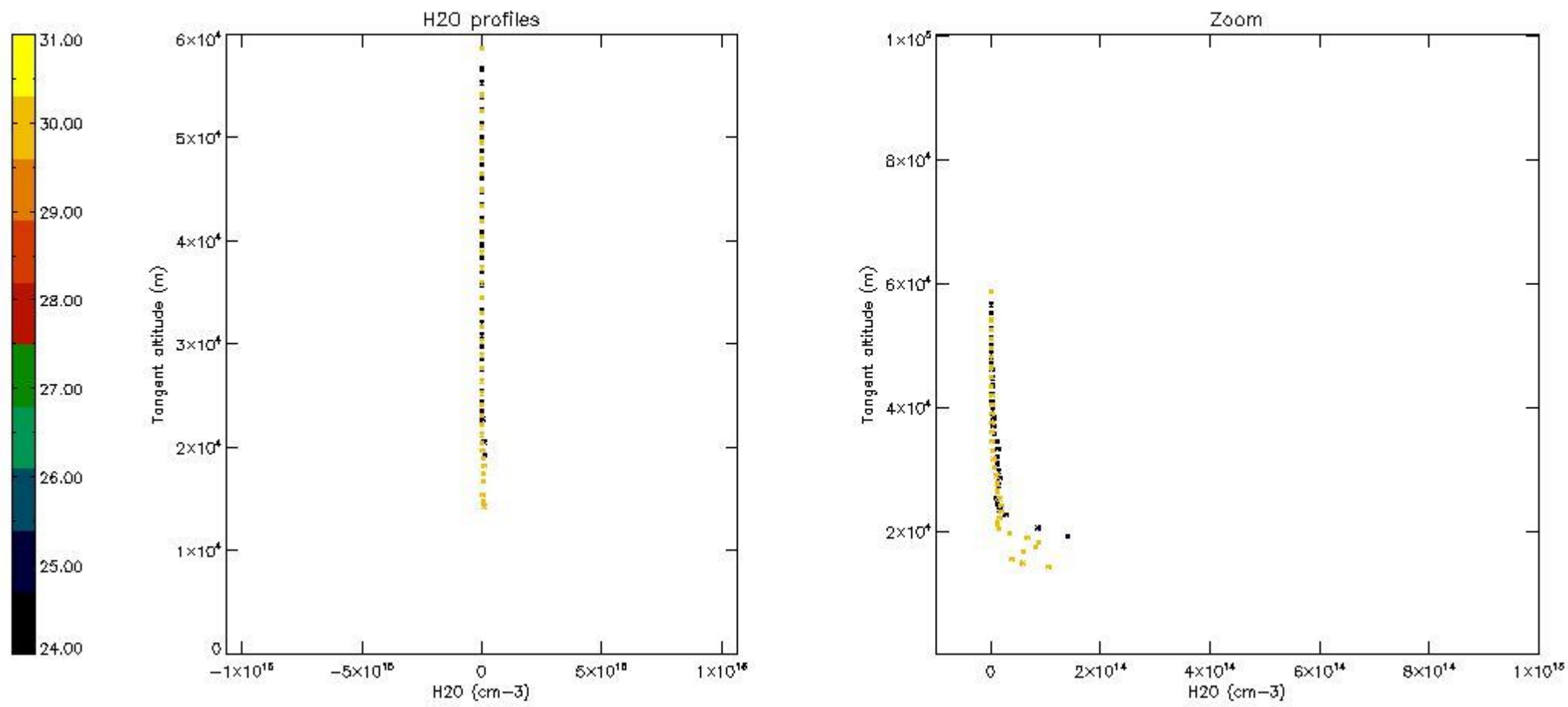
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

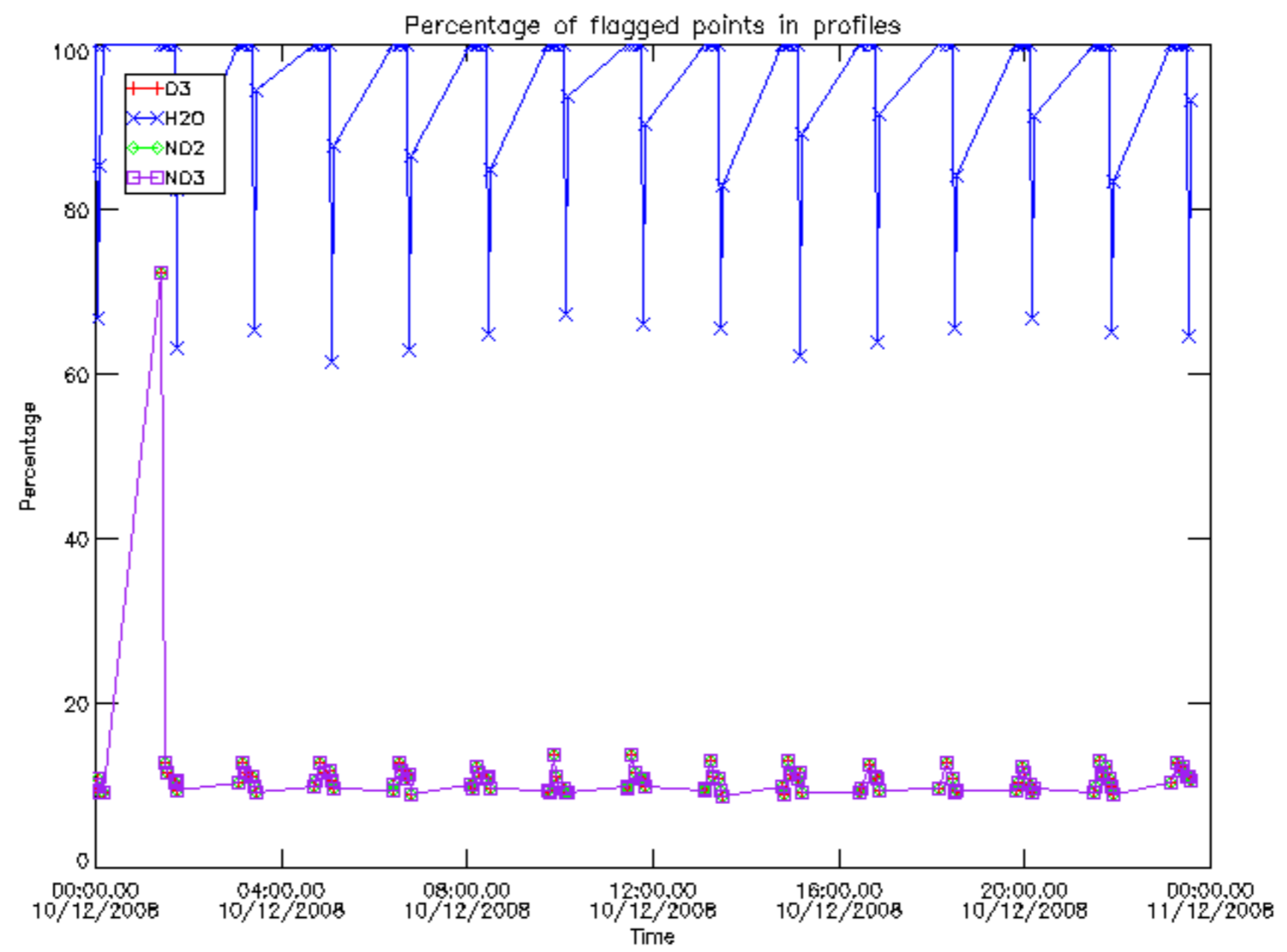
The colorbar represents the latitude.



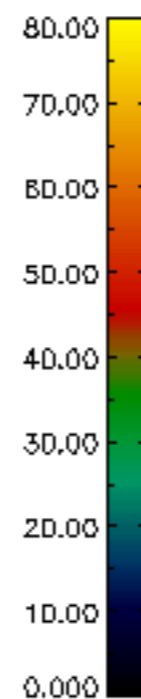
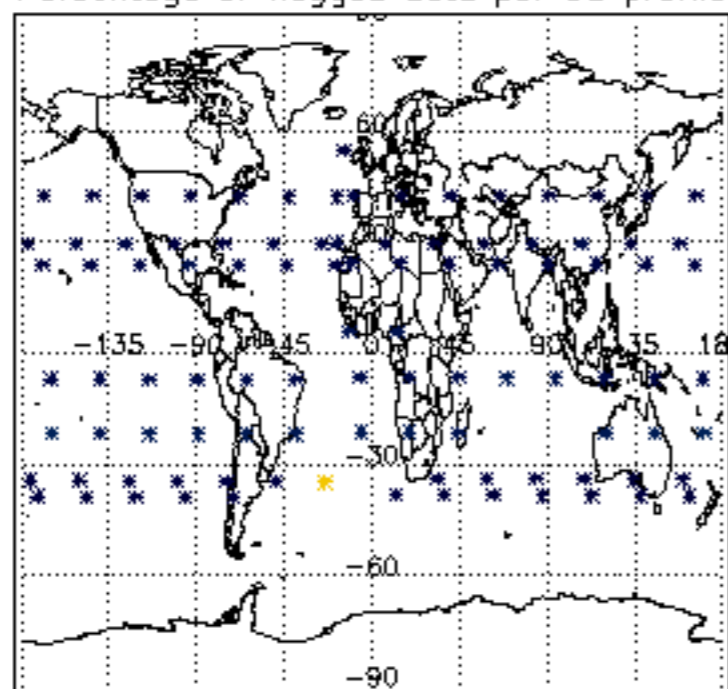
6. Auxiliary Data Files used for the production reported in section 2

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.

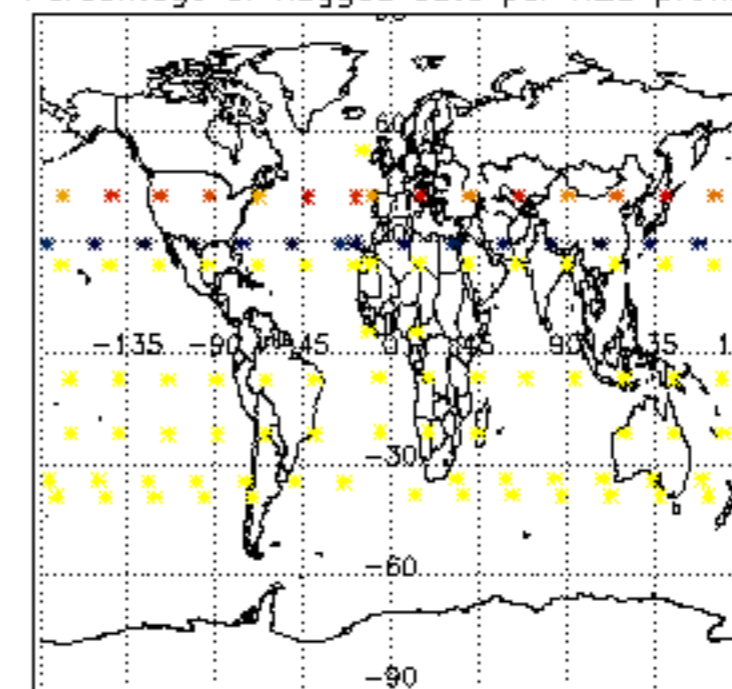
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	10-DEC-2008 00:00:37
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	10-DEC-2008 00:00:37
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	10-DEC-2008 00:00:37



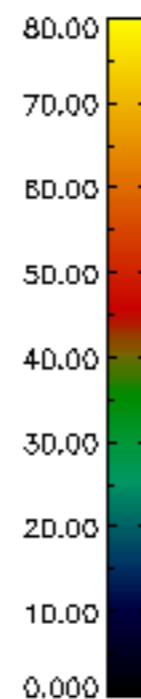
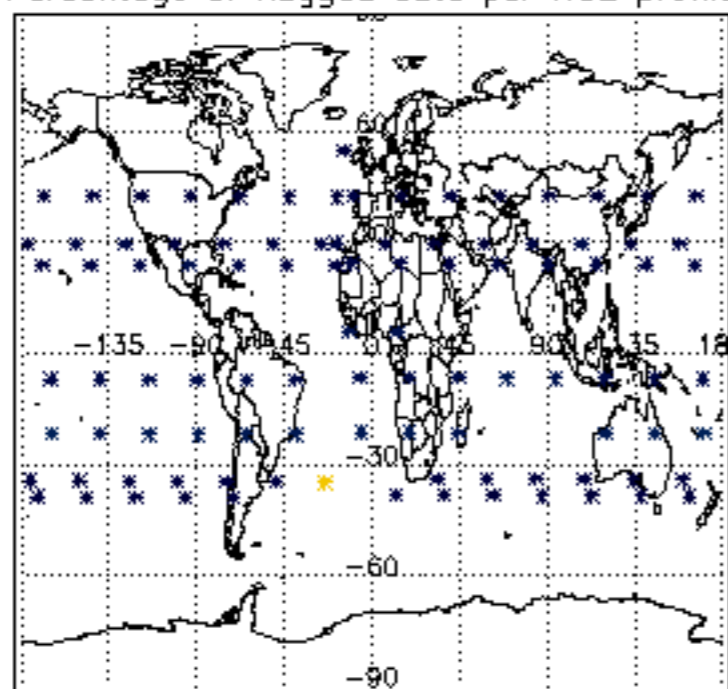
Percentage of flagged data per D3 profile



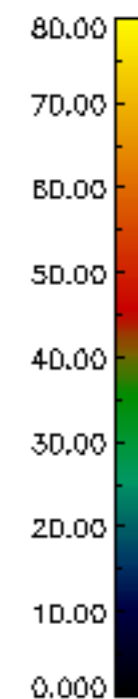
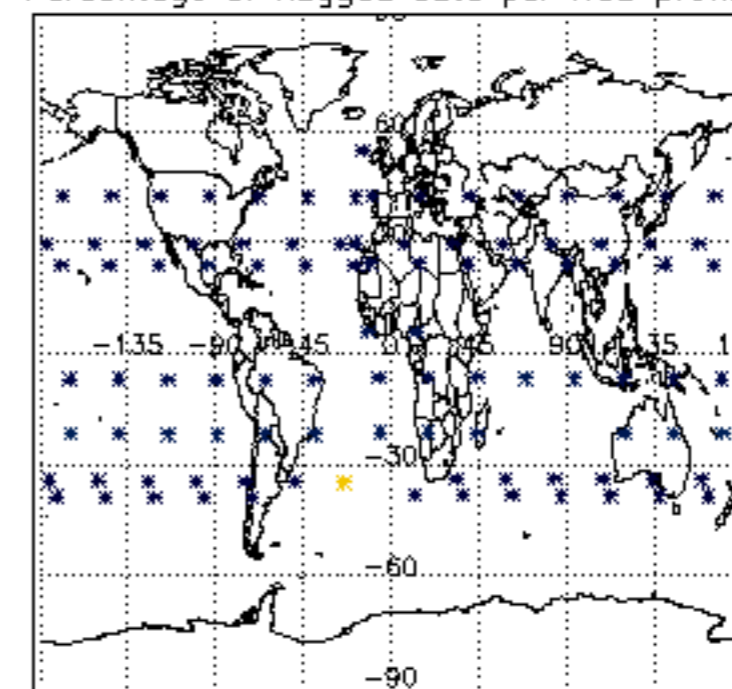
Percentage of flagged data per H2O profile

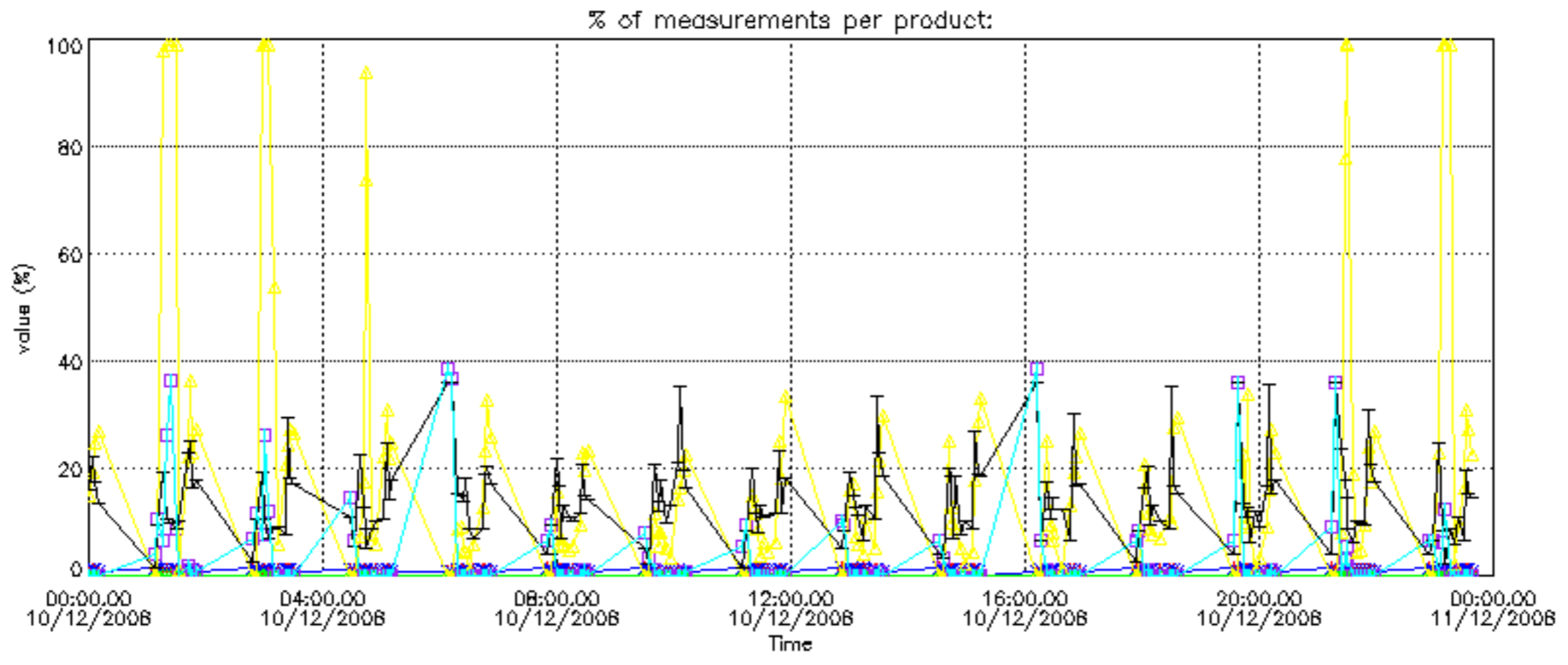


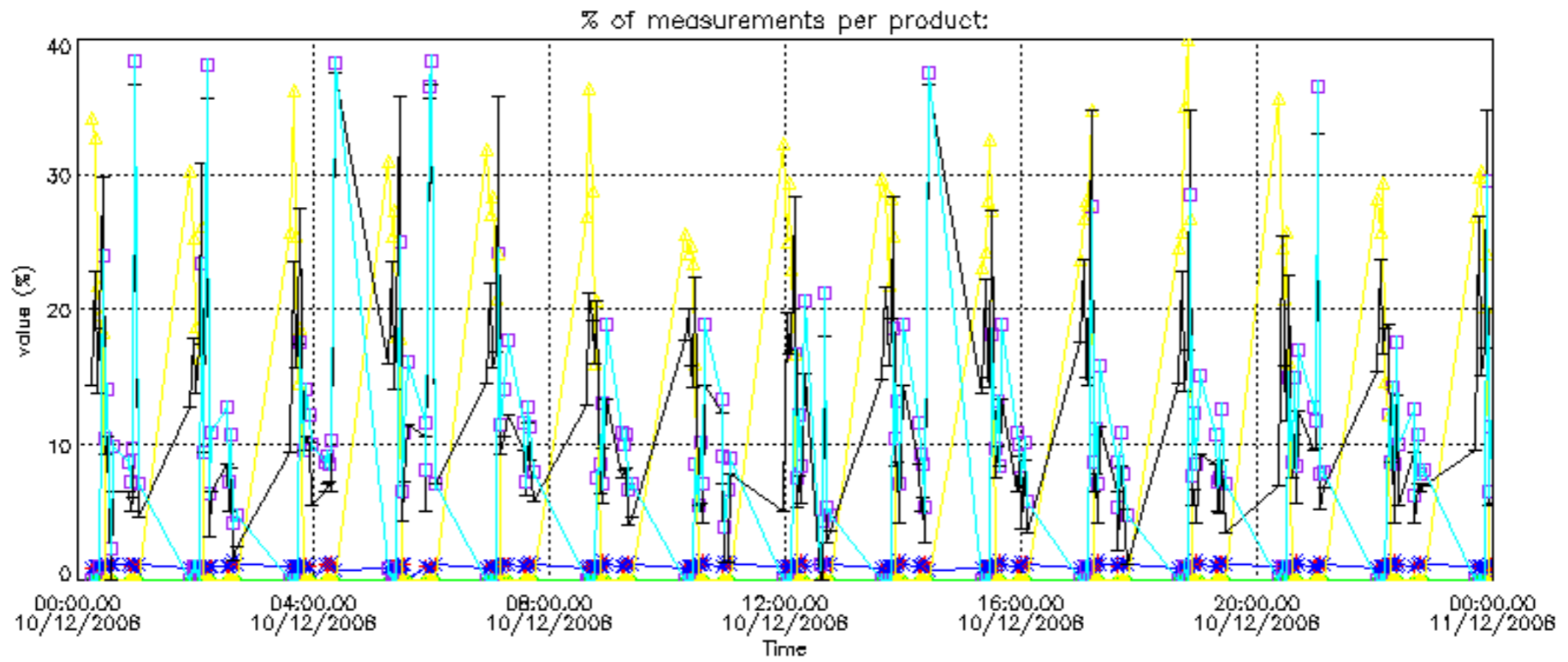
Percentage of flagged data per NO2 profile



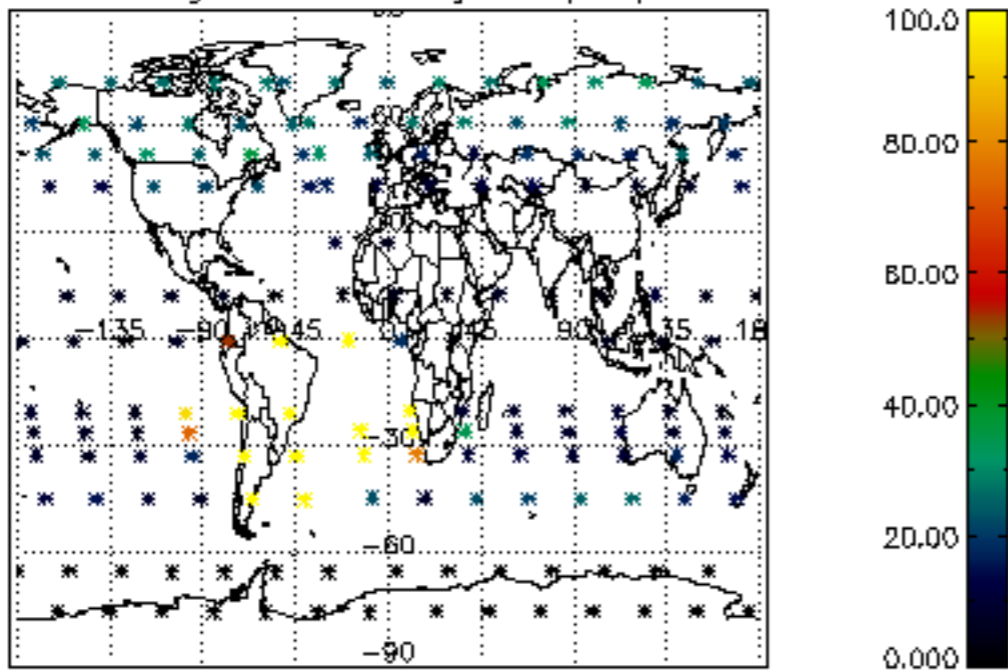
Percentage of flagged data per NO3 profile



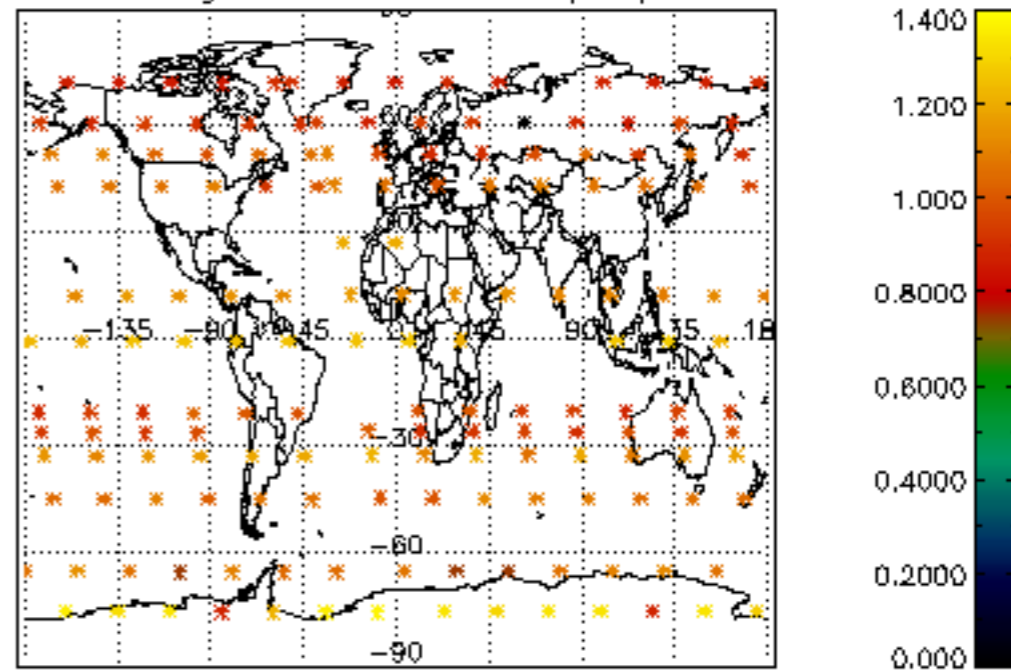




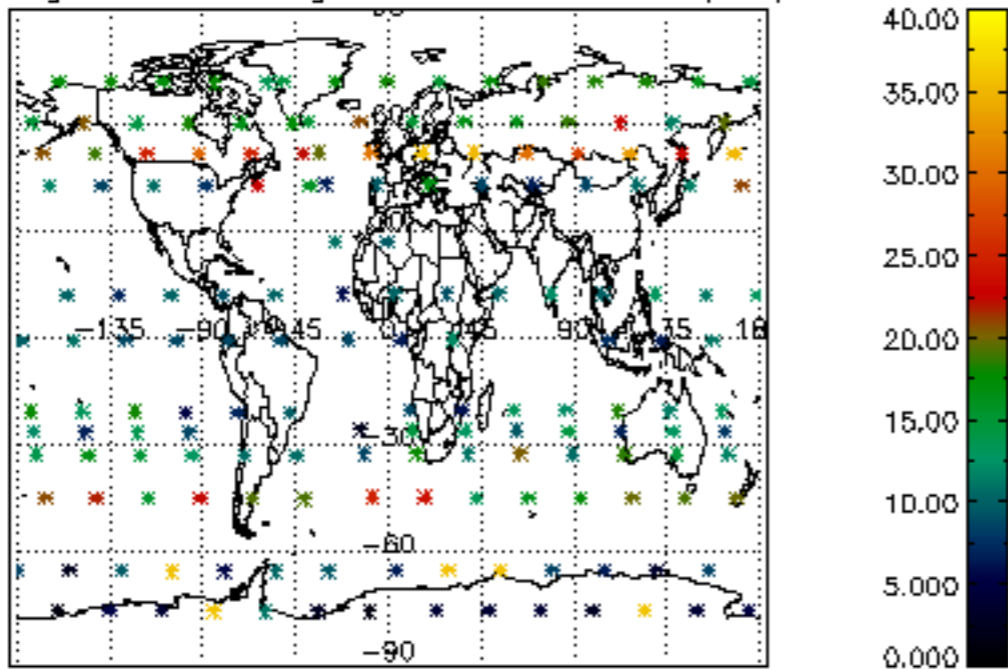
Percentage of cosmic ray hits per profile



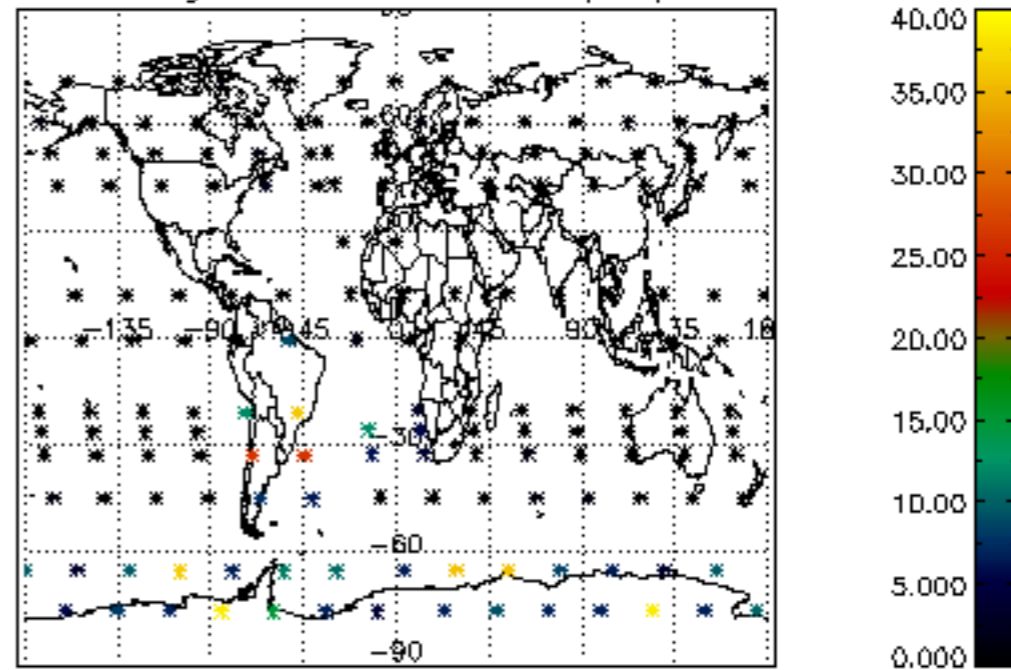
Percentage of datation errors per profile



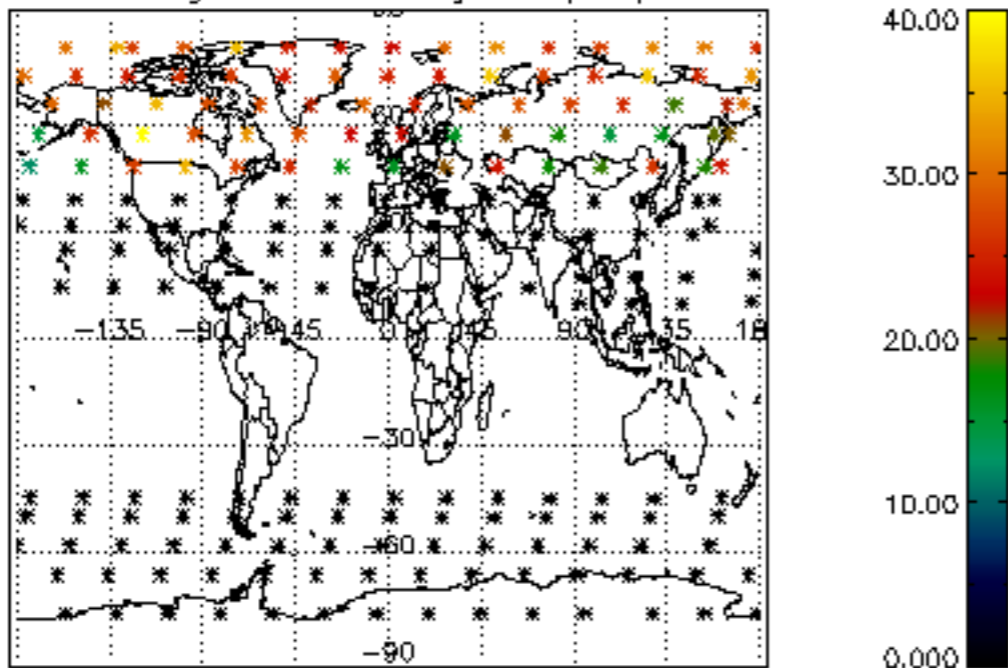
Percentage of star falling outside central band per profile



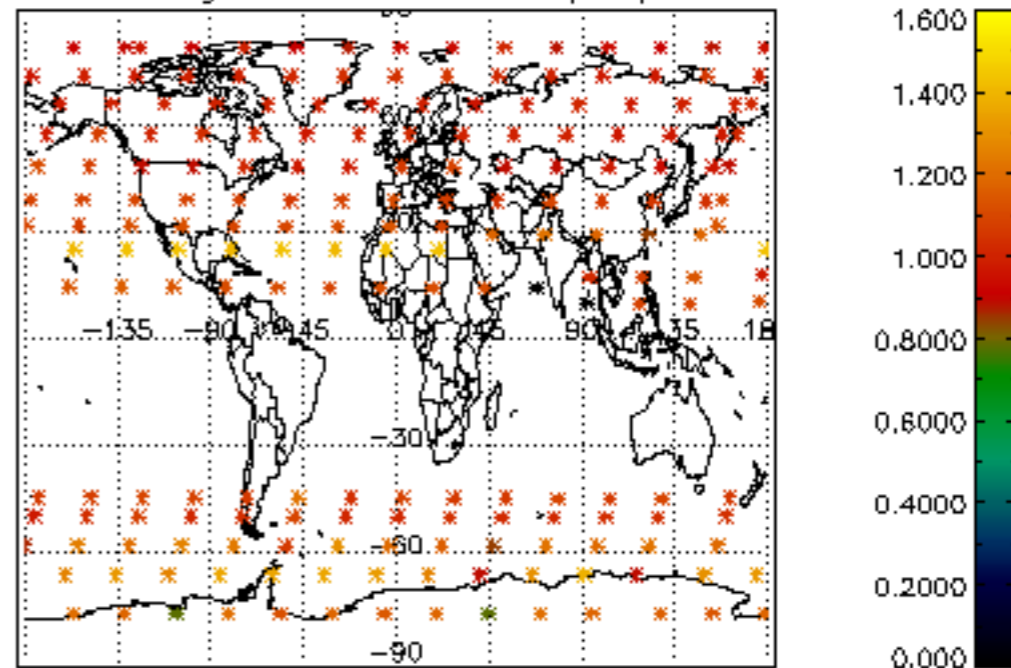
Percentage of saturation errors per profile



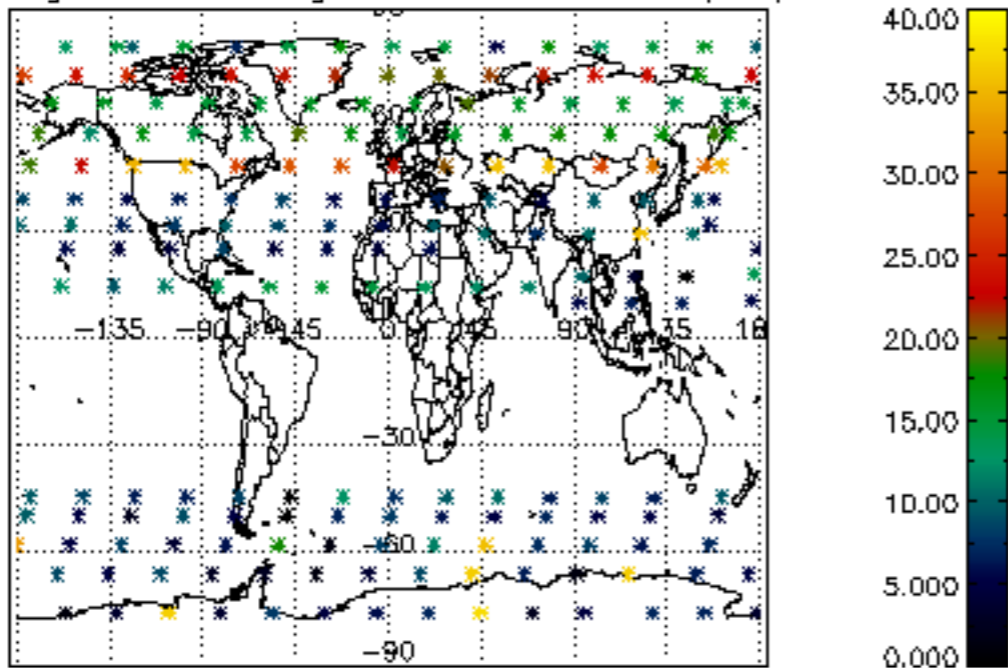
Percentage of cosmic ray hits per profile



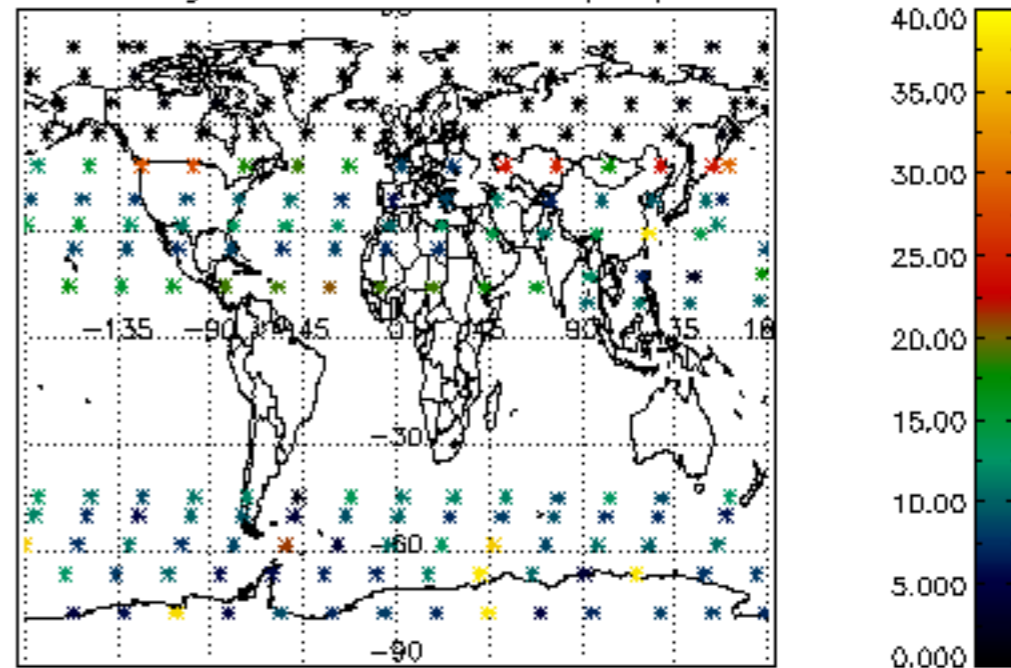
Percentage of datation errors per profile

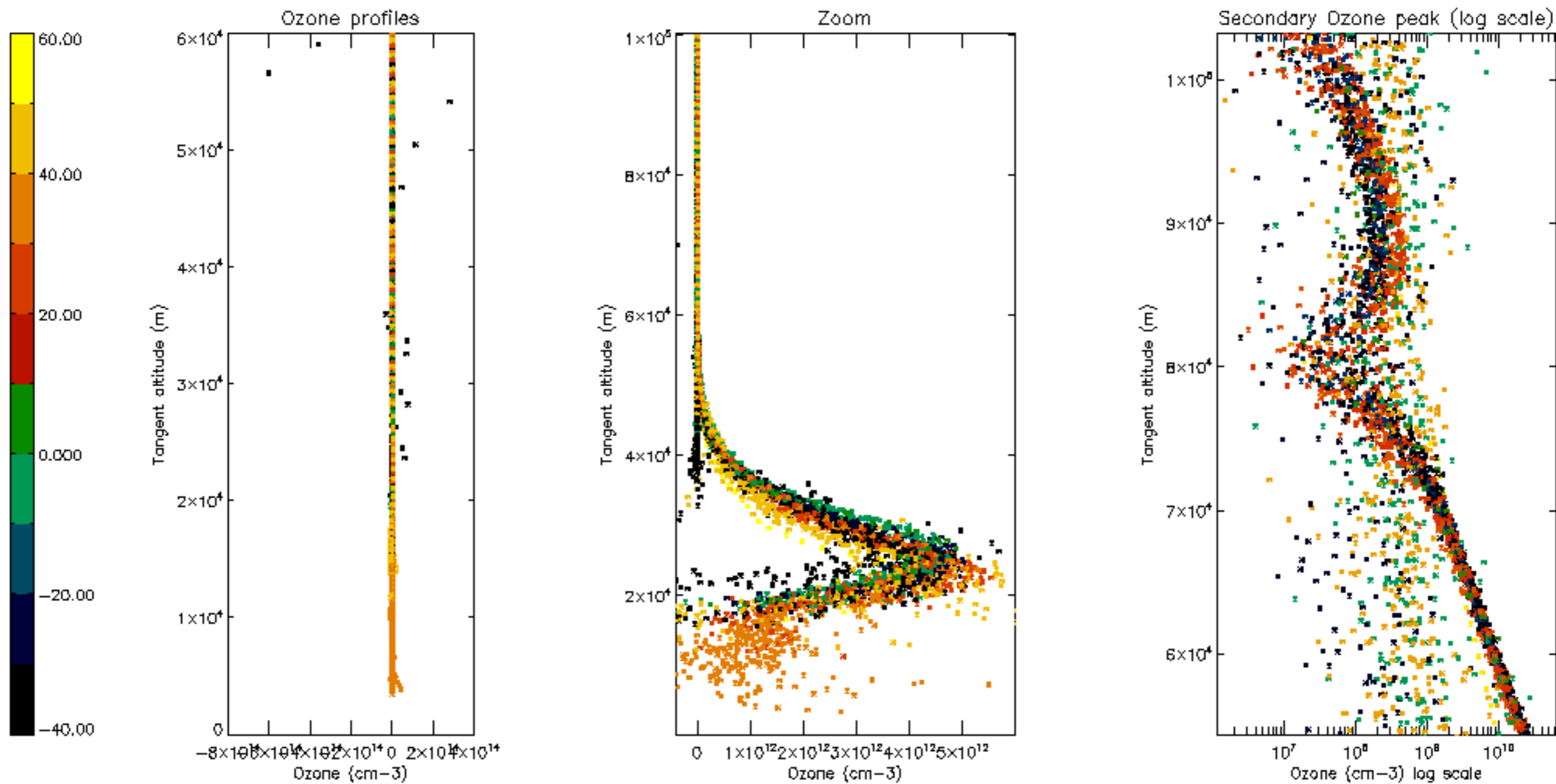


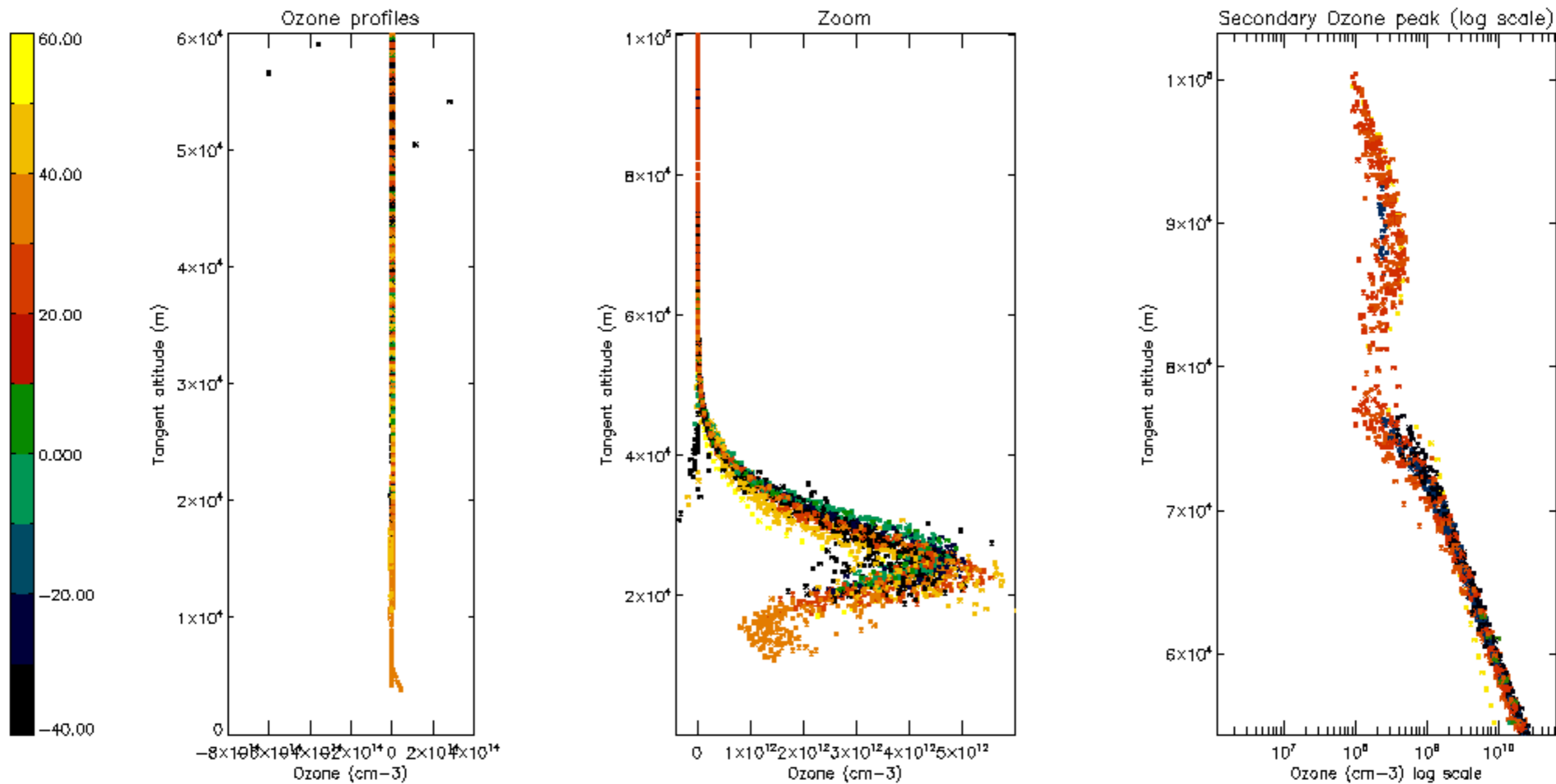
Percentage of star falling outside central band per profile

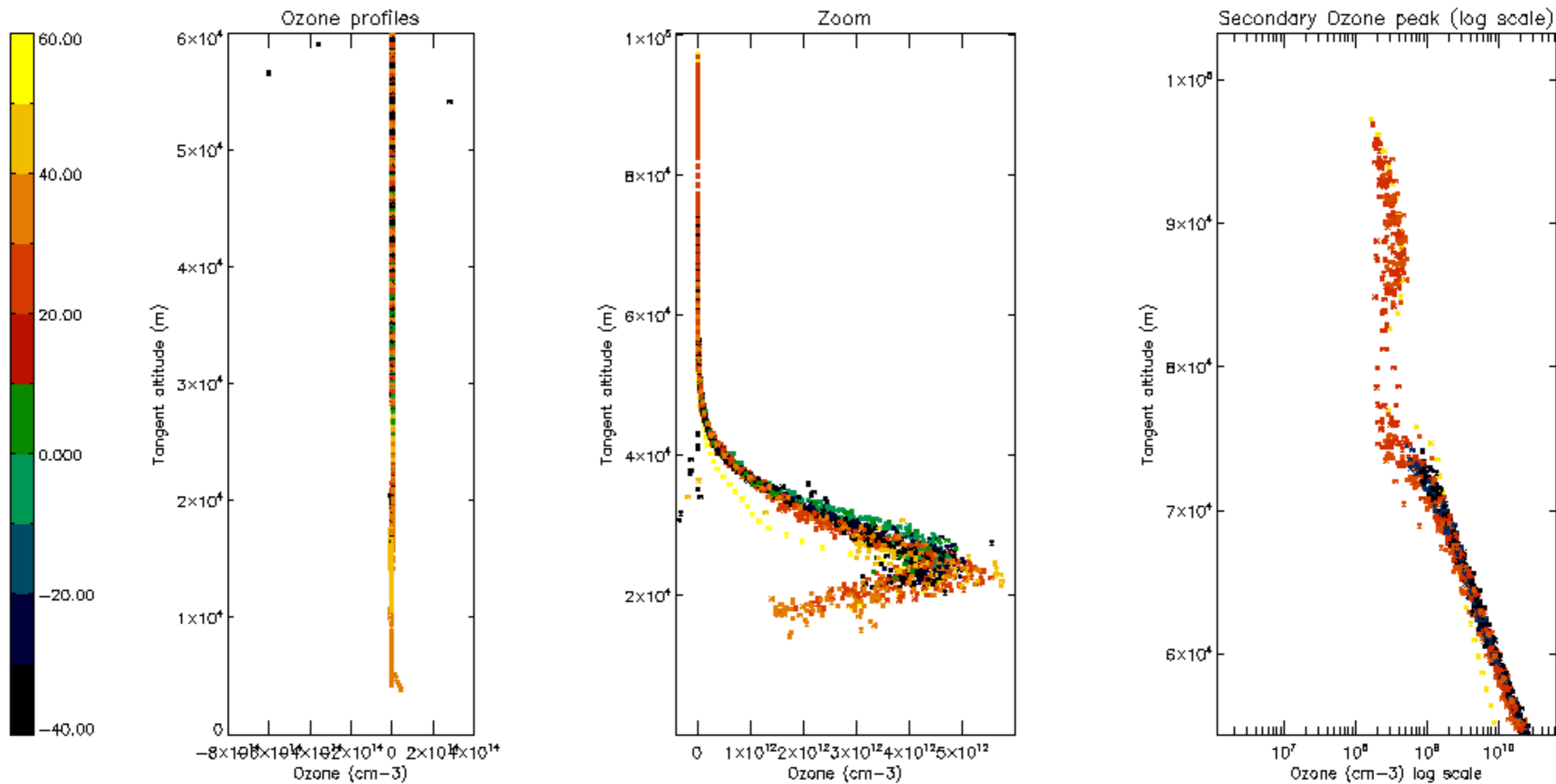


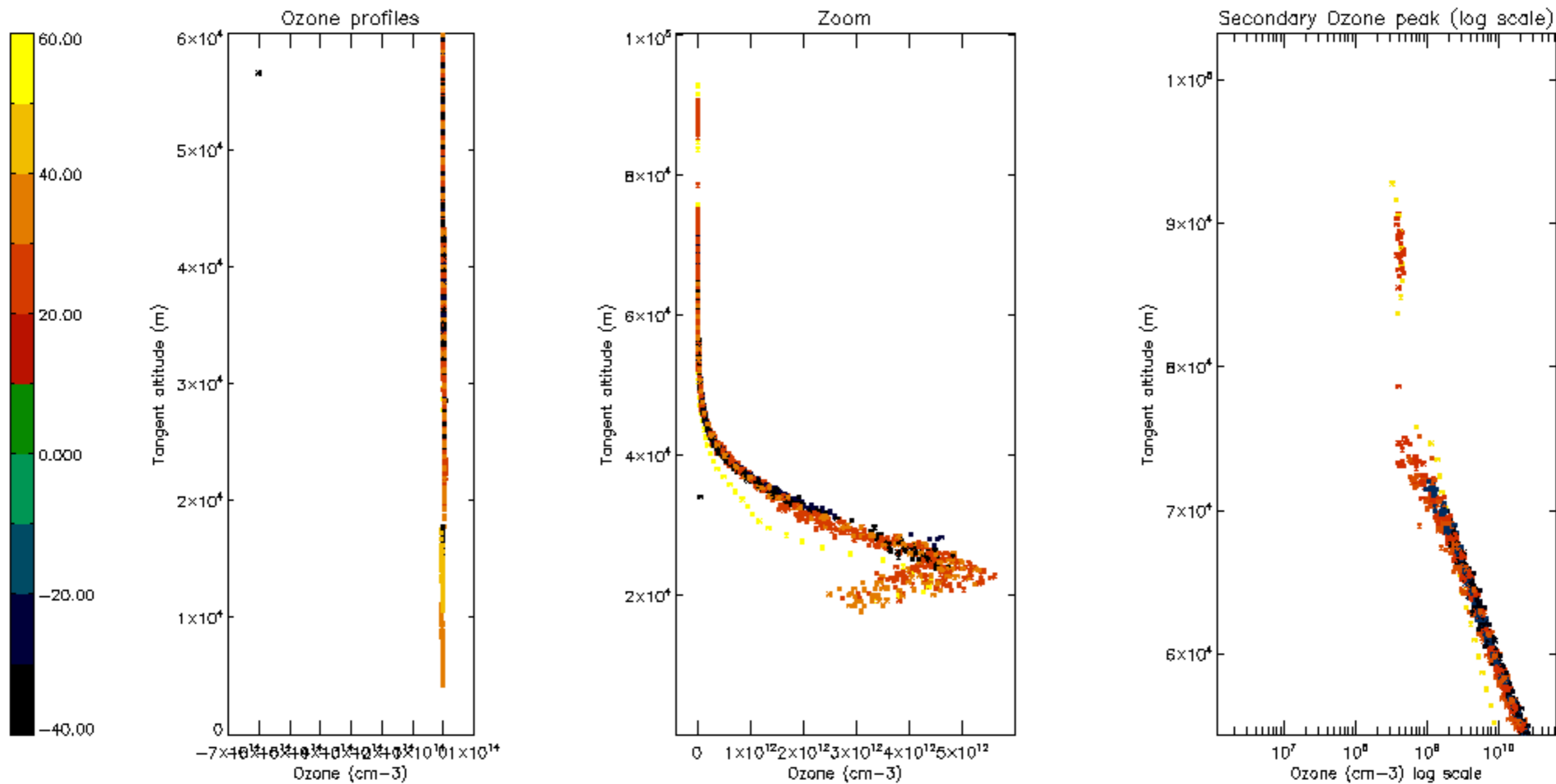
Percentage of saturation errors per profile

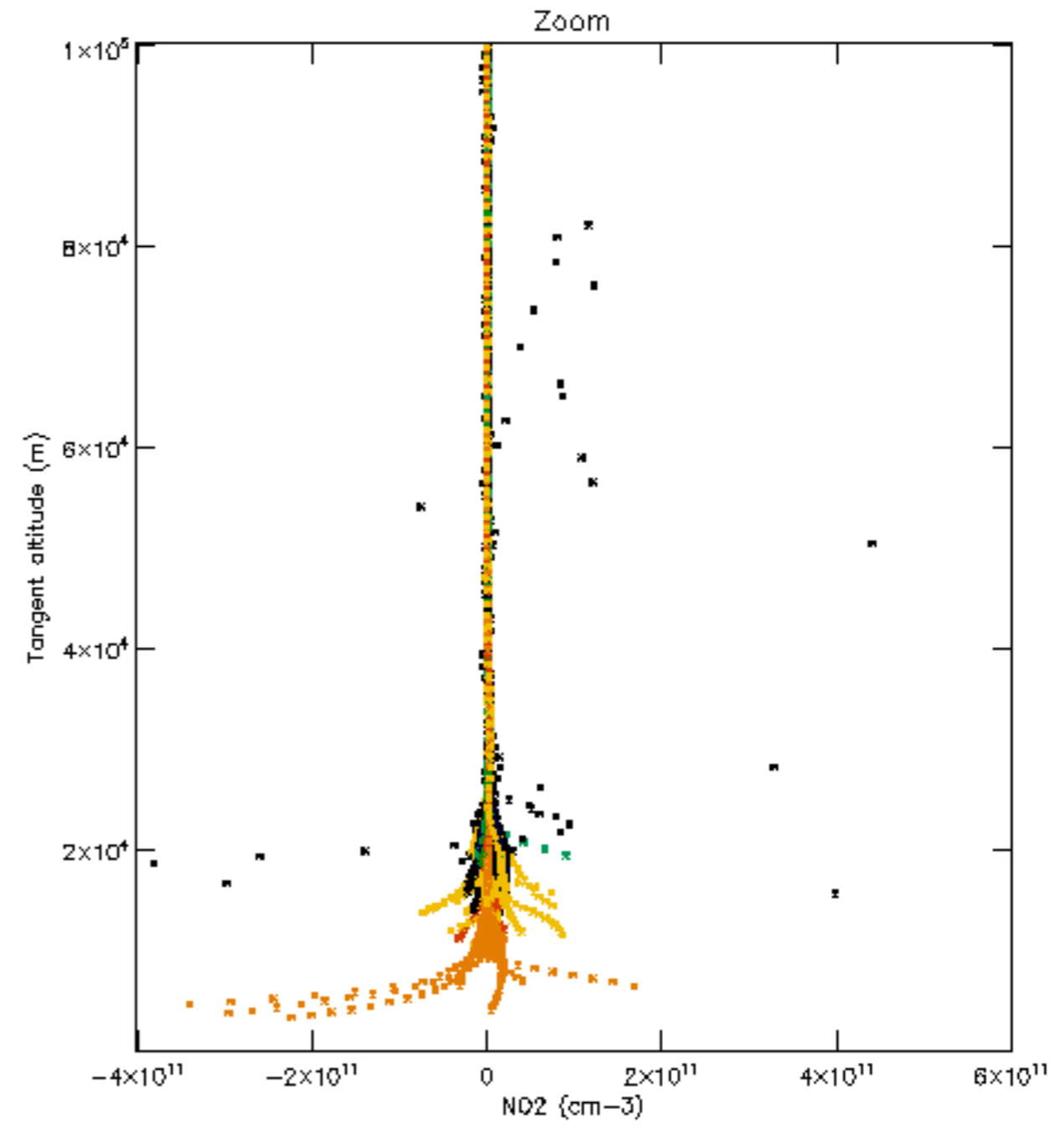
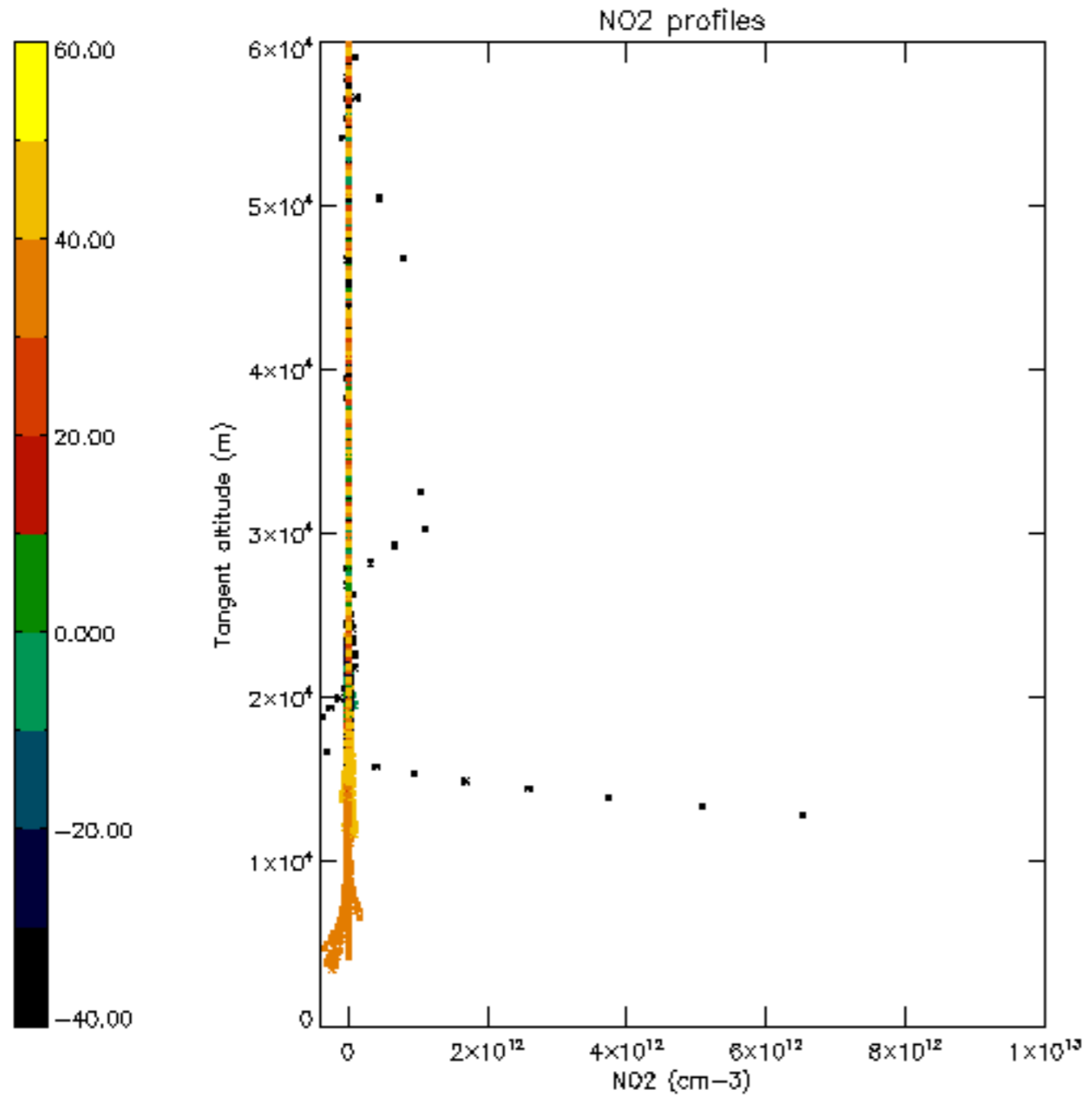


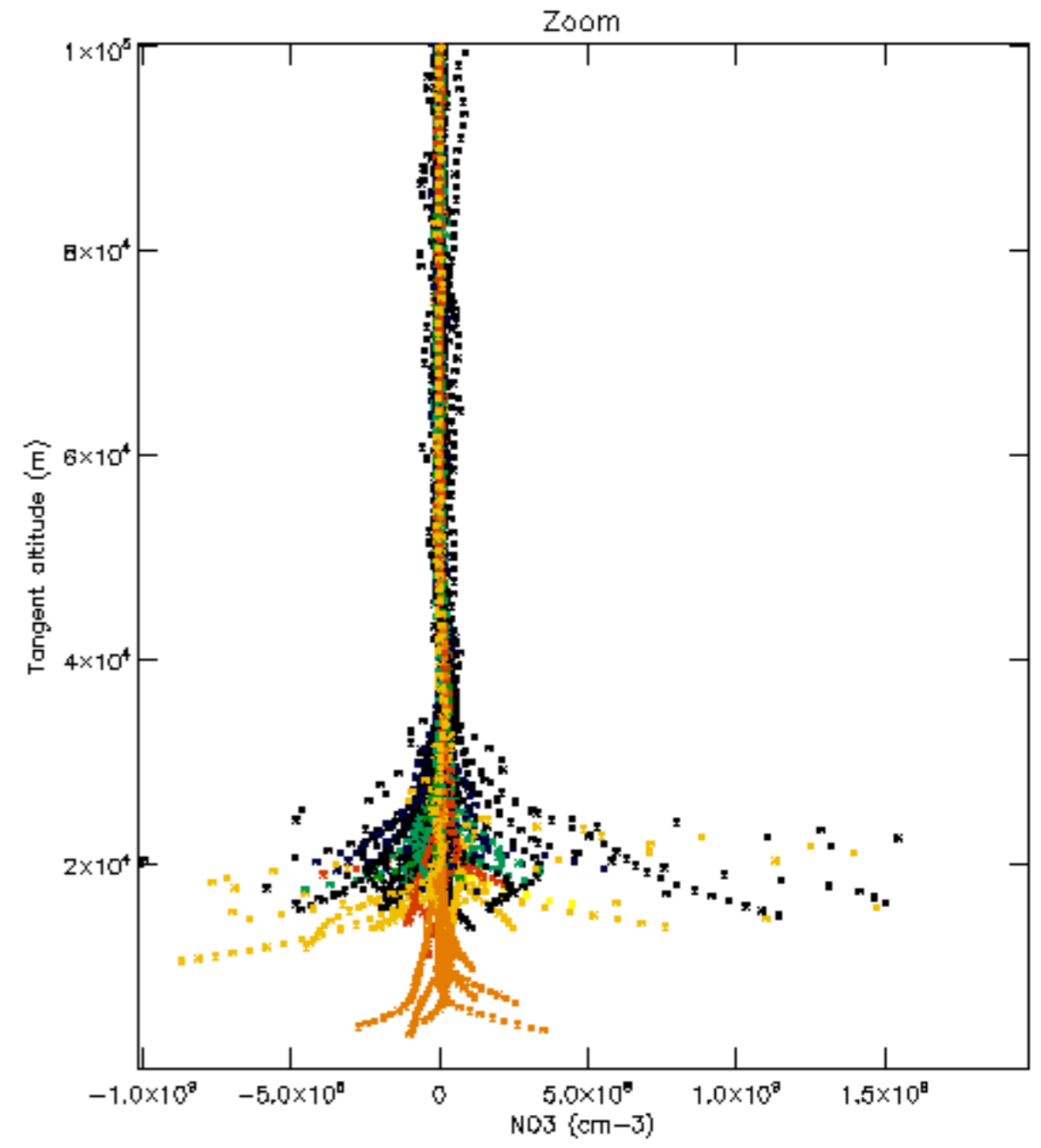
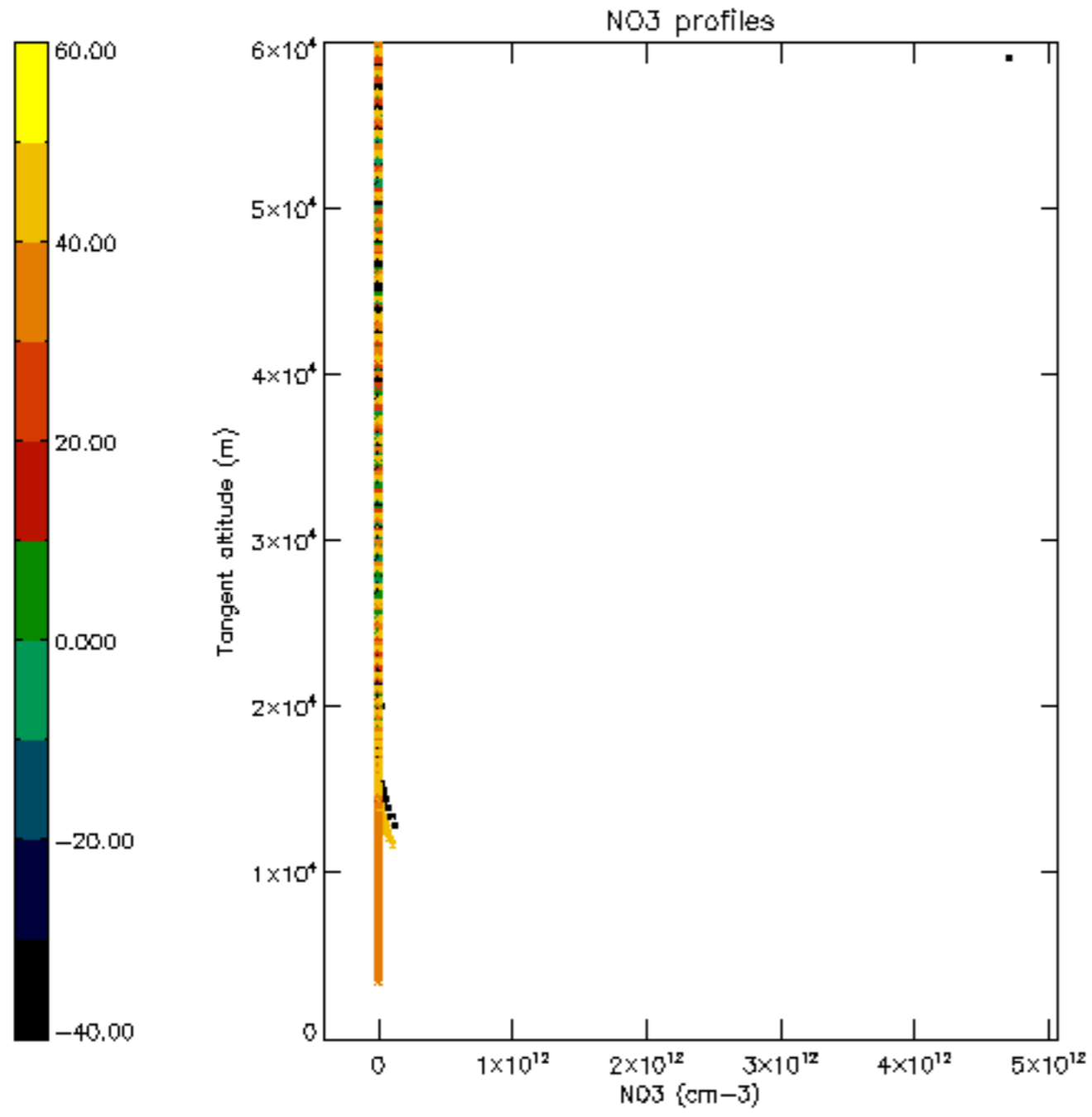


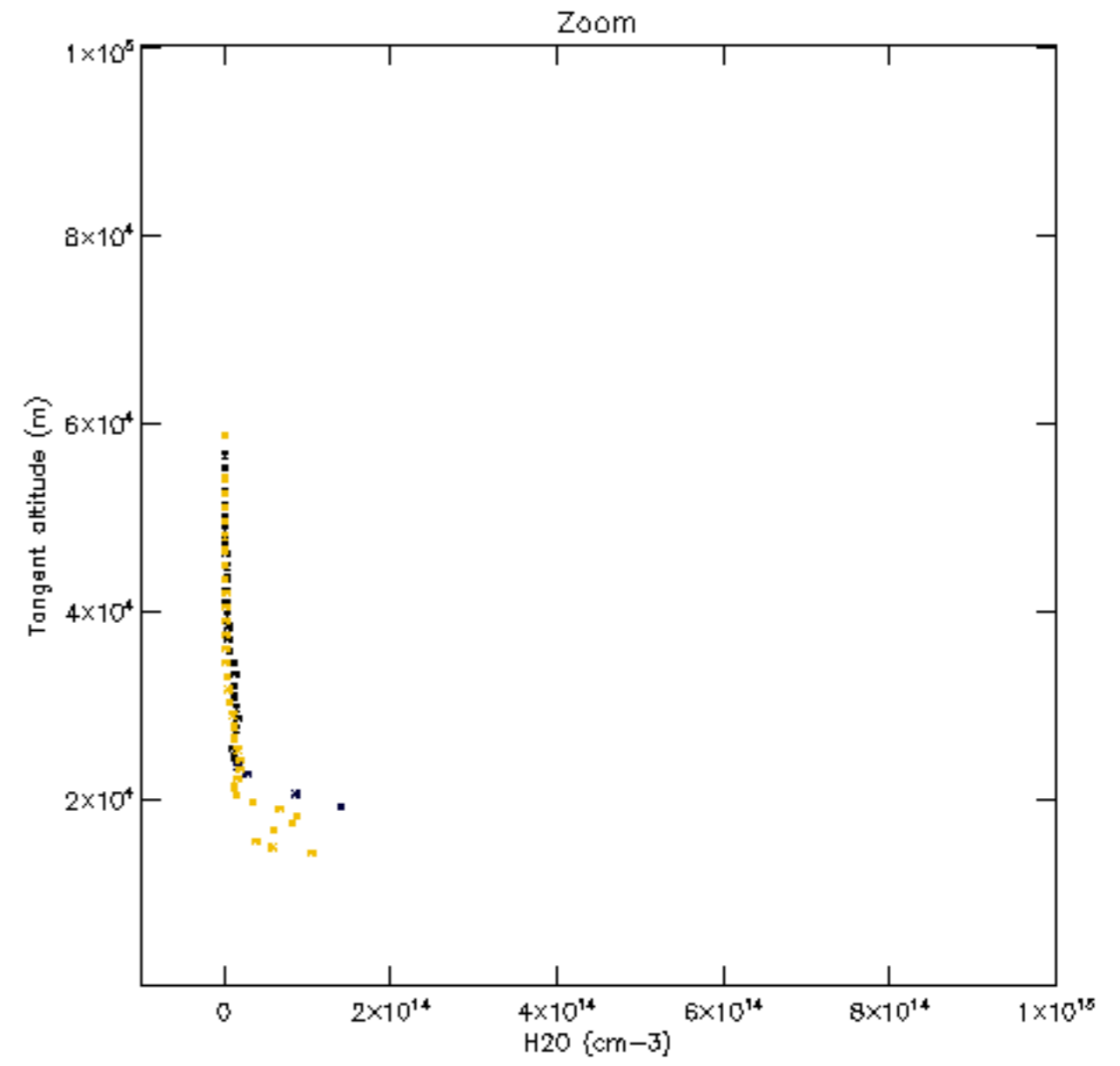
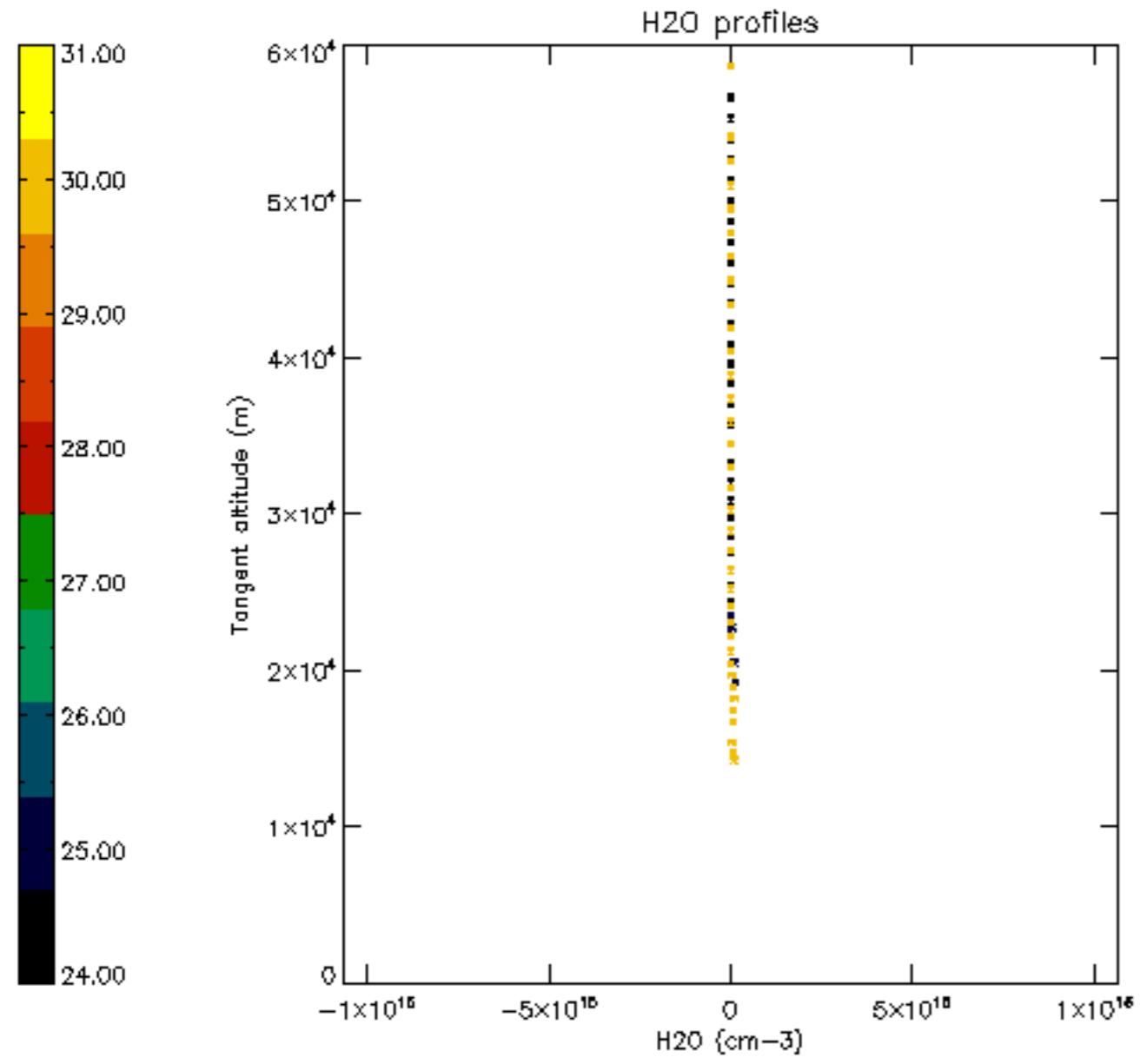


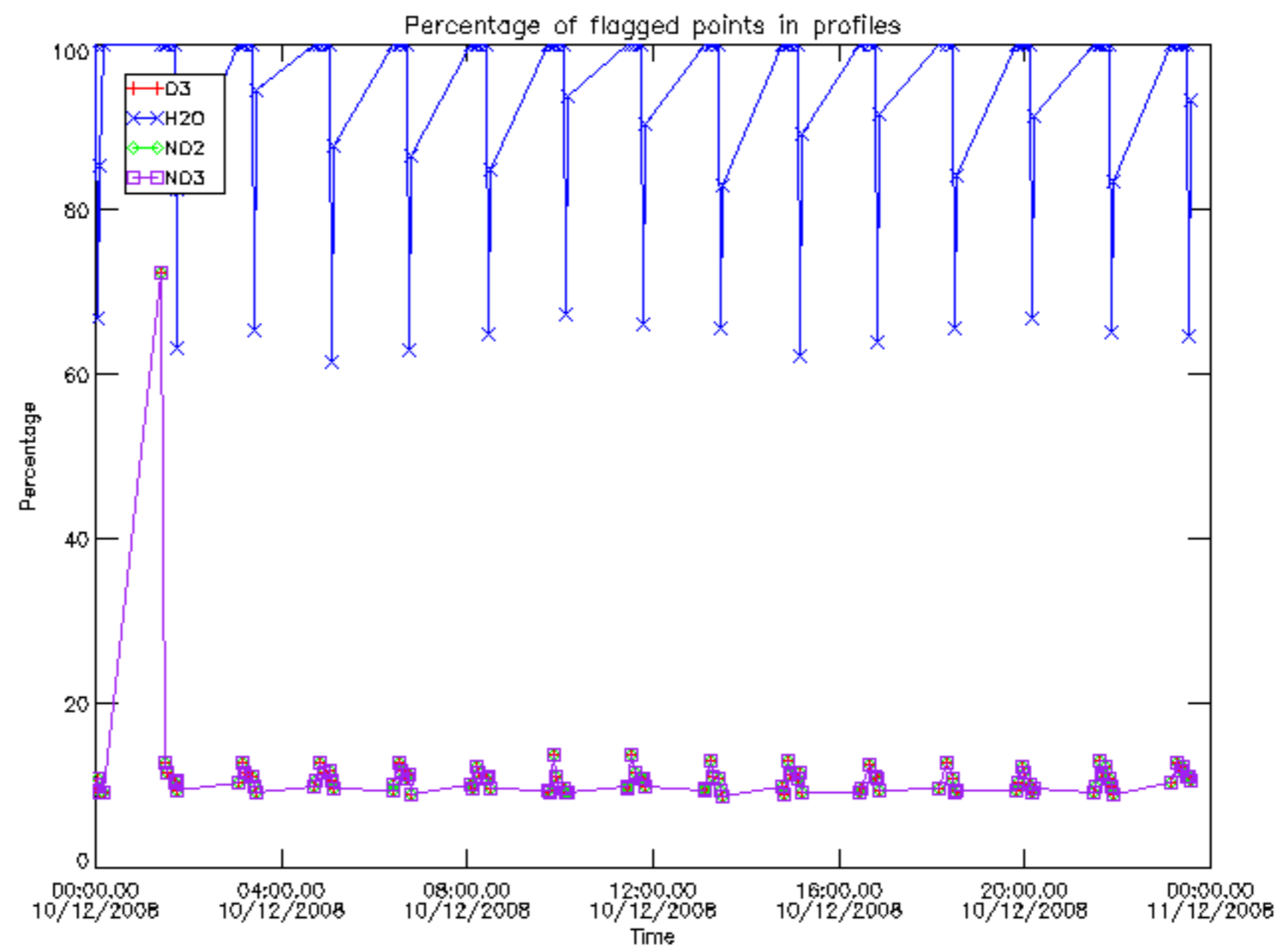




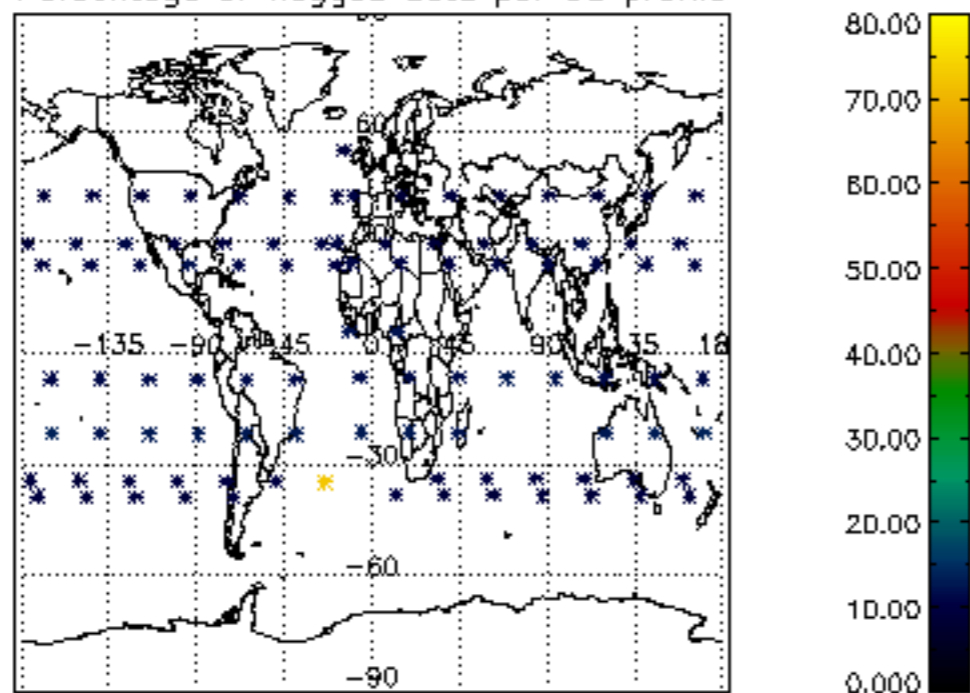




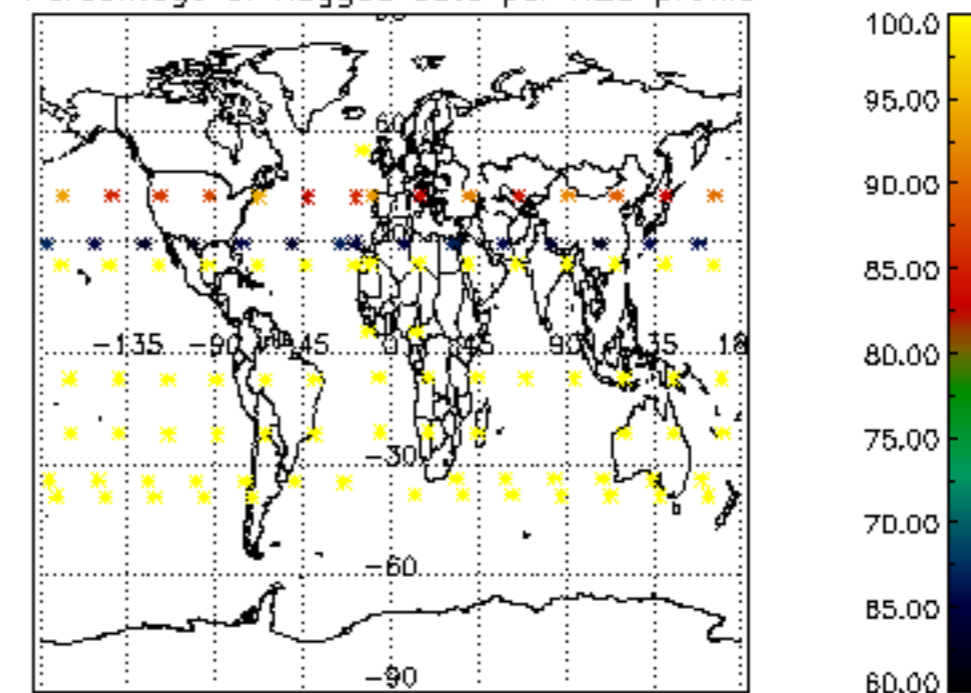




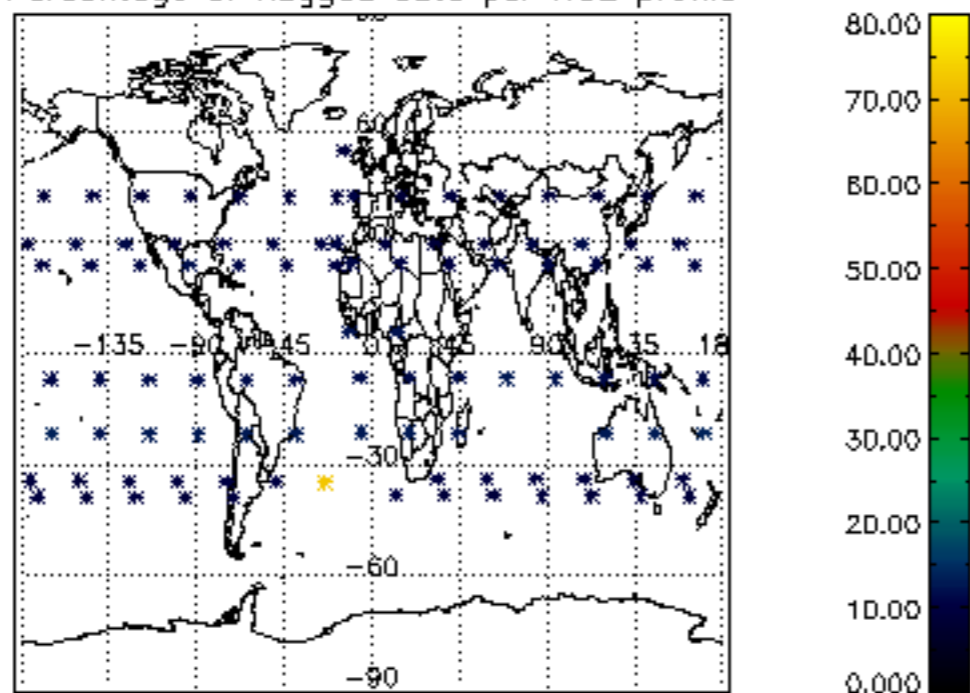
Percentage of flagged data per D3 profile



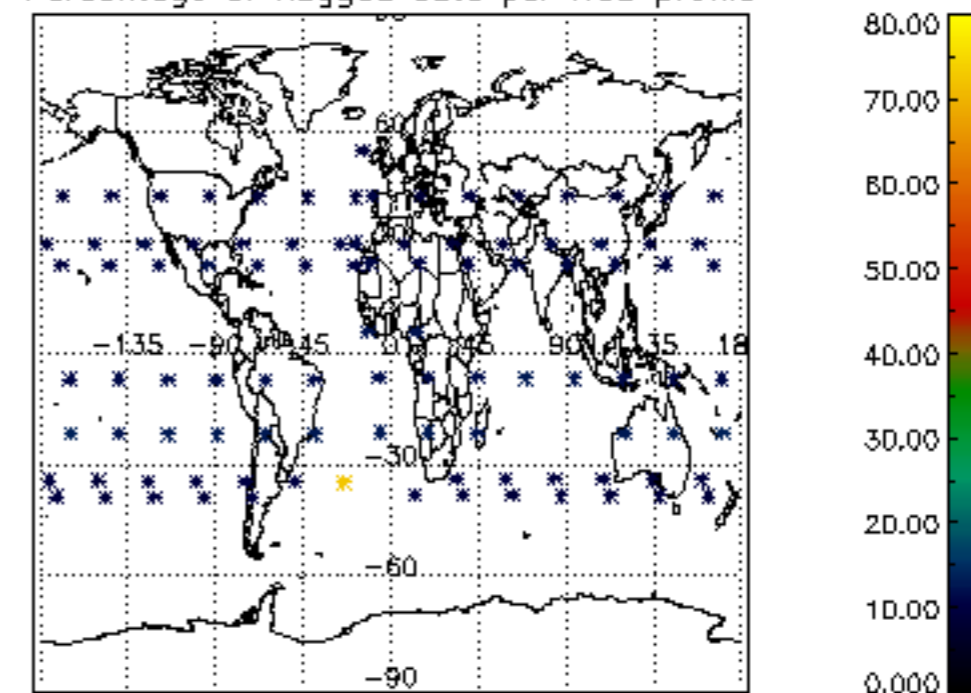
Percentage of flagged data per H2O profile

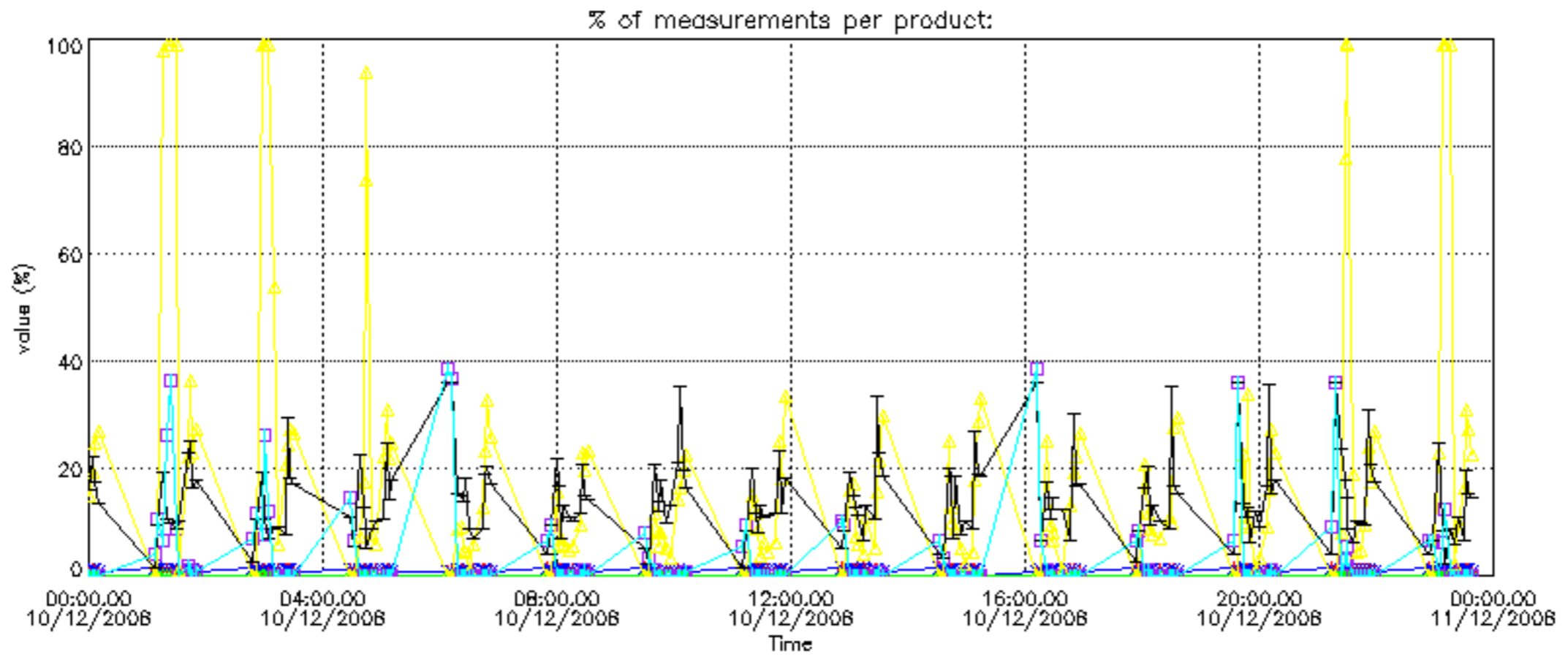


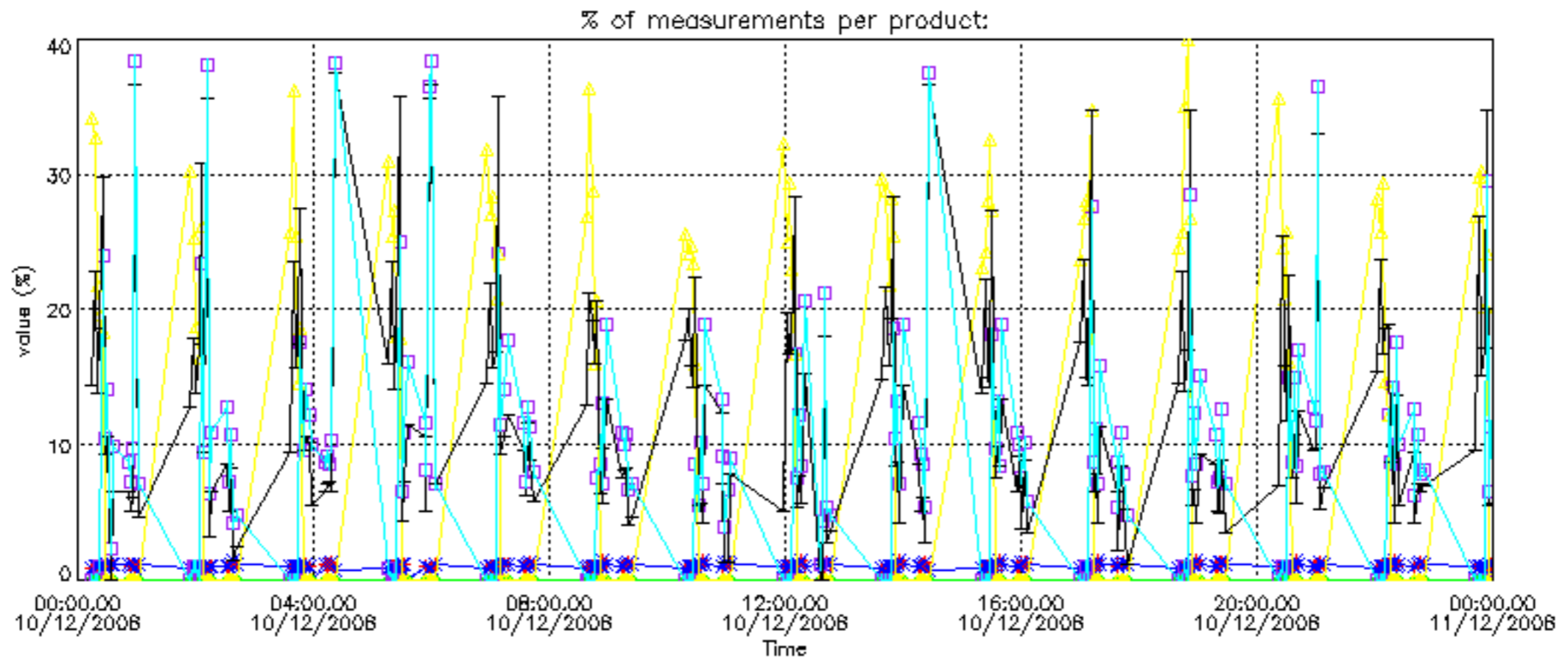
Percentage of flagged data per NO2 profile



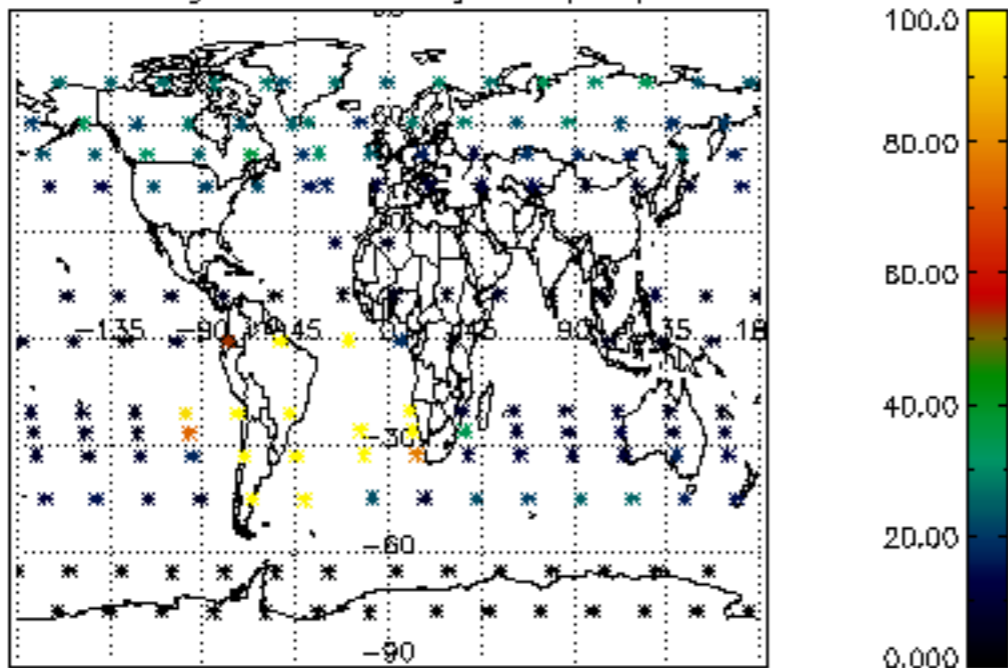
Percentage of flagged data per NO3 profile



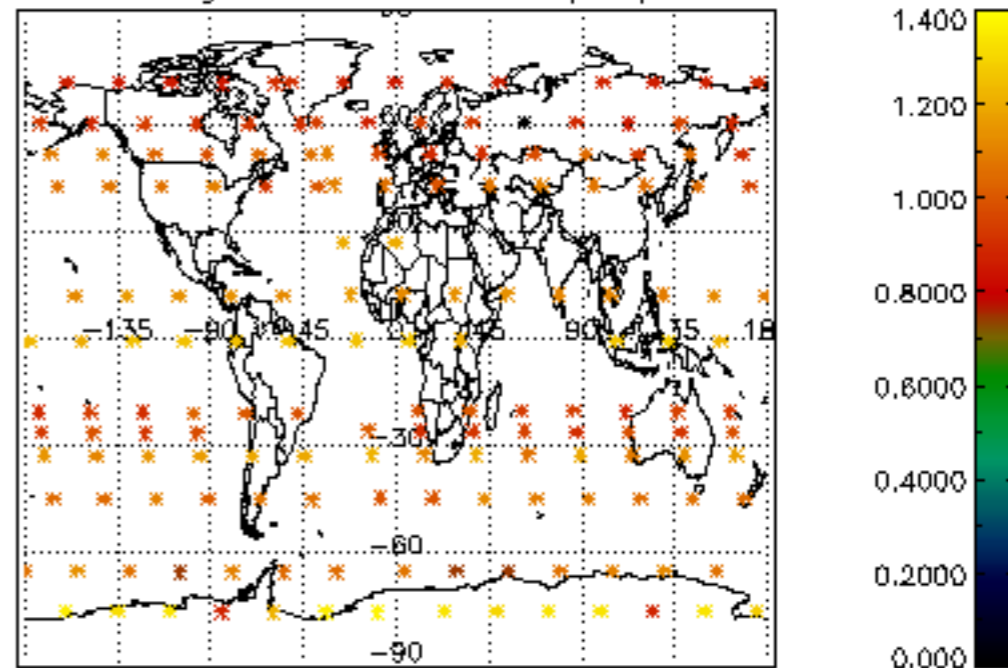




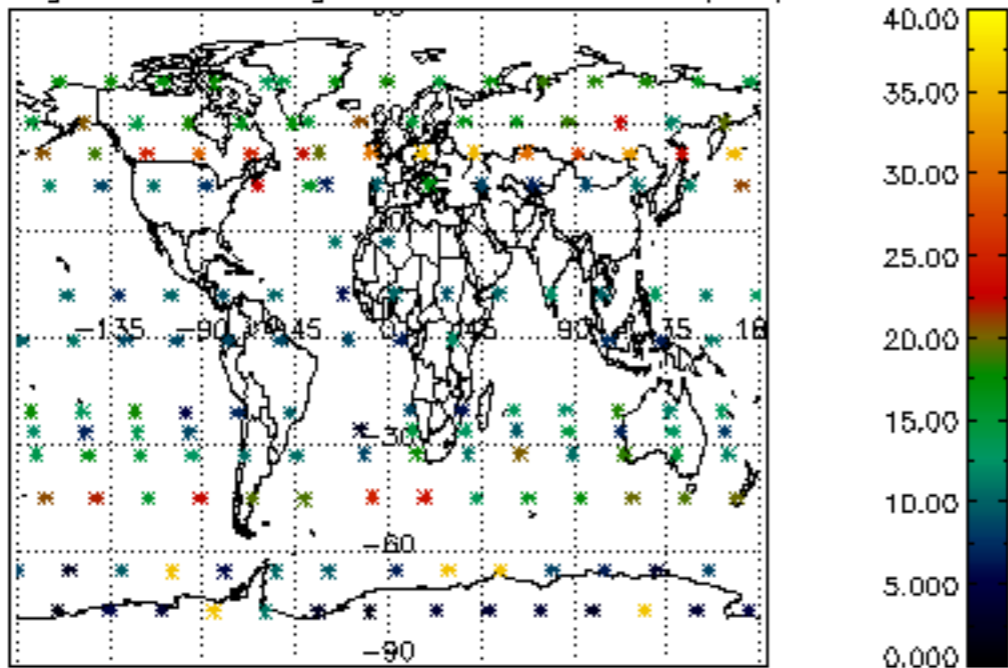
Percentage of cosmic ray hits per profile



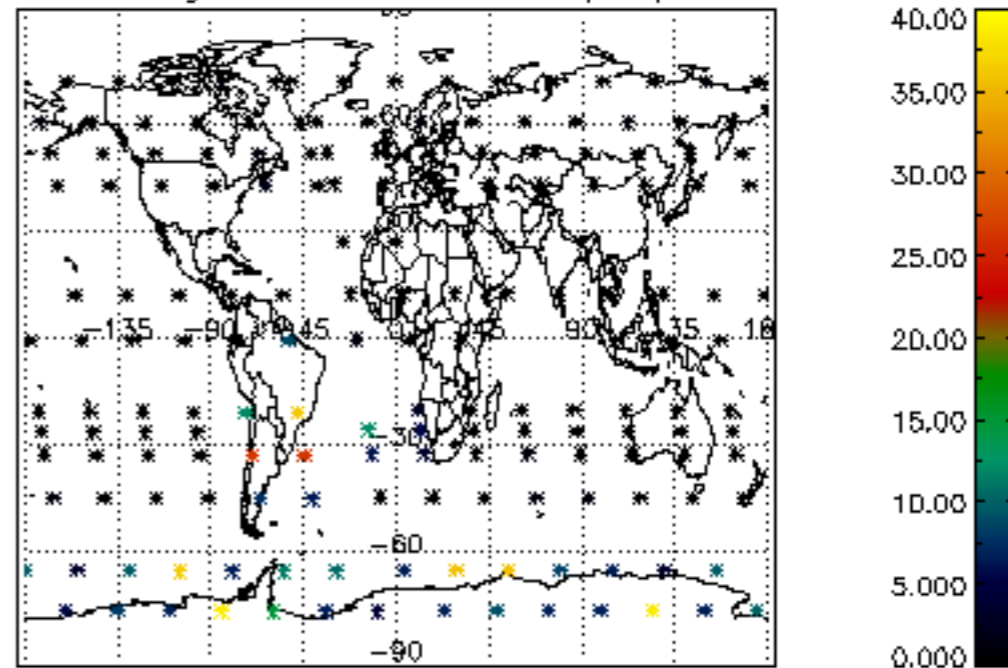
Percentage of datation errors per profile



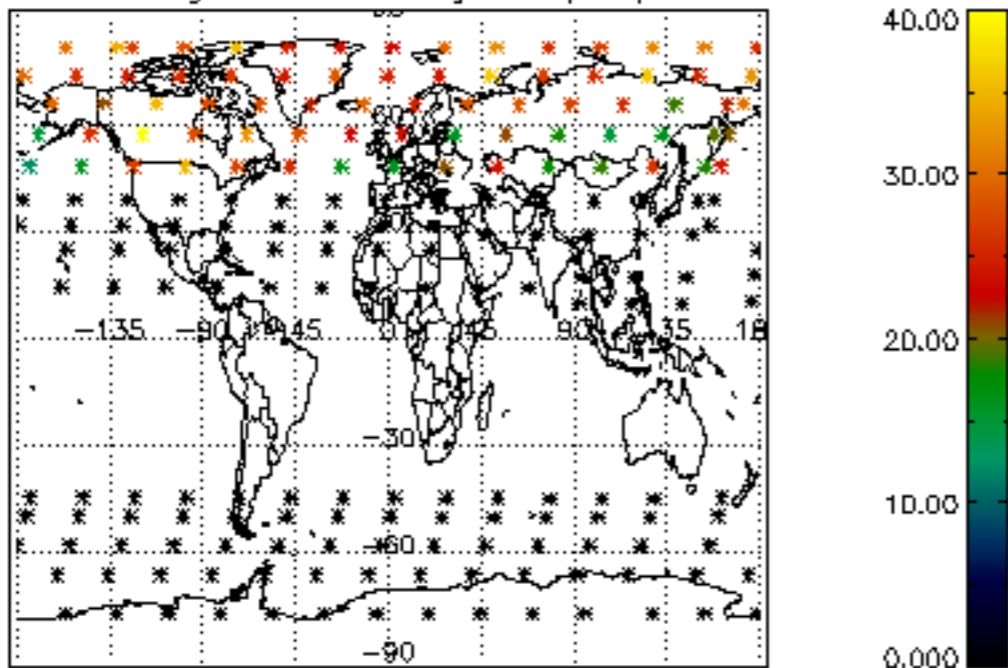
Percentage of star falling outside central band per profile



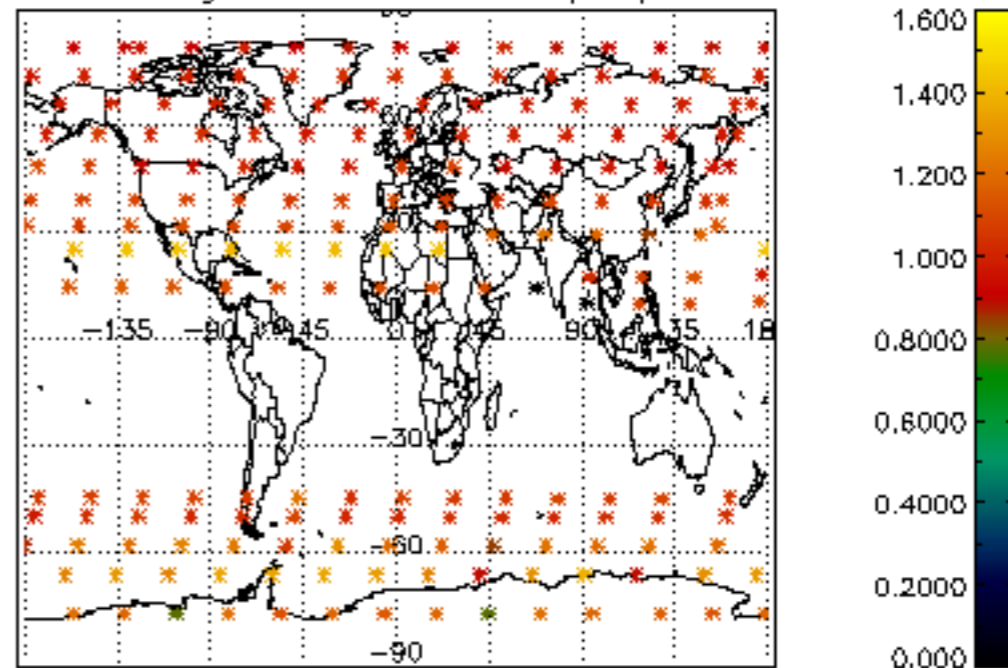
Percentage of saturation errors per profile



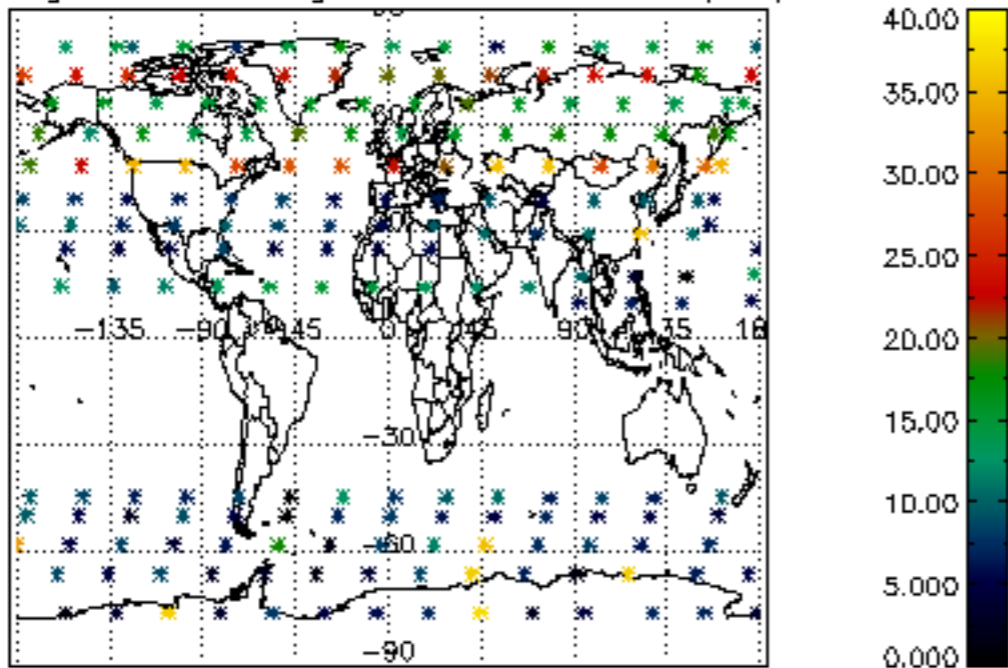
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

