

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	23APR2013 23:37:20
Data source version	GOMOS/6.01
Start time of products	12-06-2006 (12JUN2006 00:00:00)
Stop time of products	13-06-2006 (13JUN2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	217
Nb of prods with errors	0

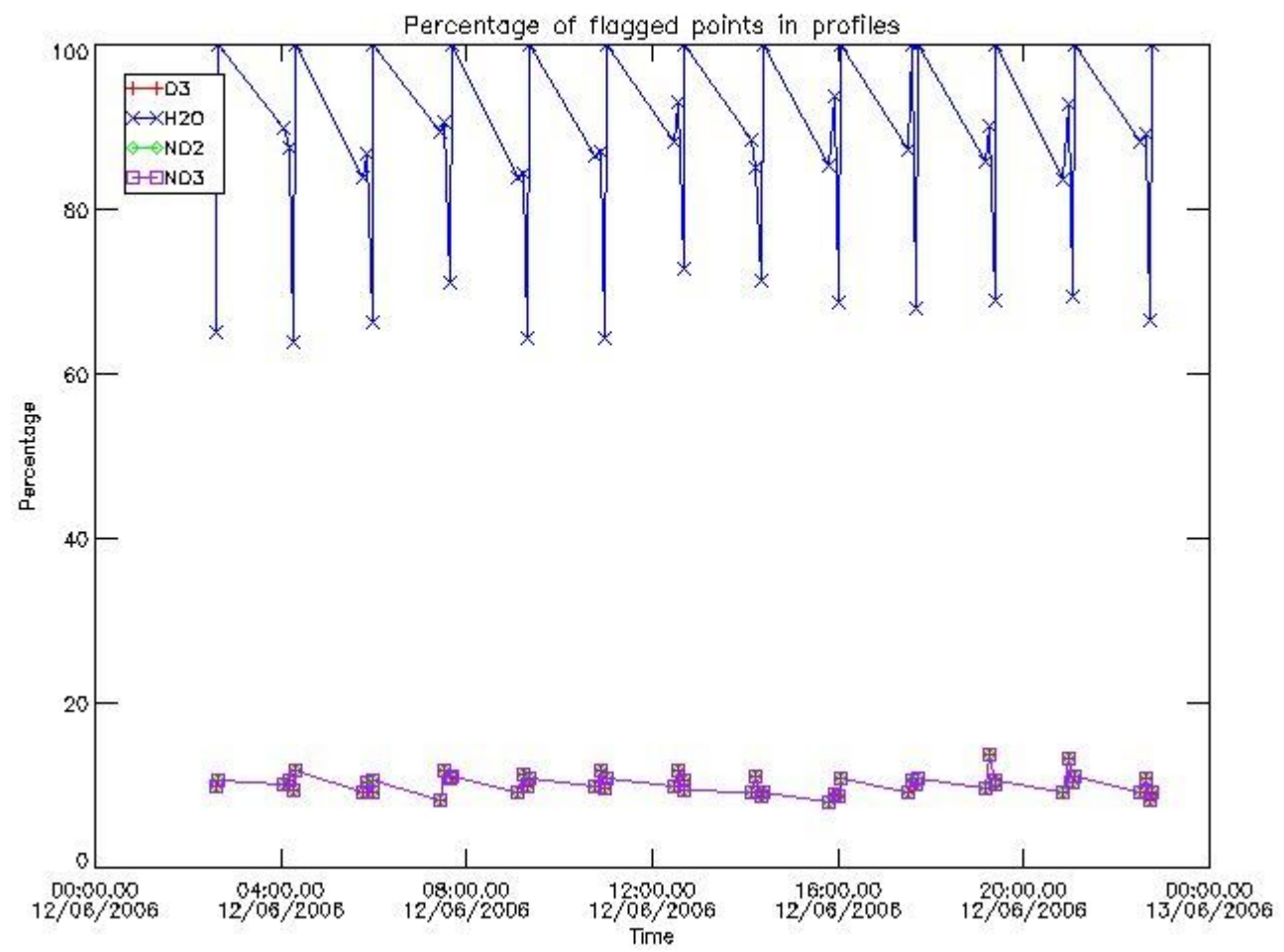
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060612_023619_000000522048_00290_22388_0696.N1	12-JUN-2006 02:36:19	Dark	52.000	63	Bet Gru	2.1500	2800.0	104	22388	No
2	GOM_NL__2PRFIN20060612_023821_000000482048_00290_22388_0697.N1	12-JUN-2006 02:38:21	Dark	48.000	31	Alp Gru	1.7340	15200.	96	22388	No
3	GOM_NL__2PRFIN20060612_024232_000000432048_00290_22388_0698.N1	12-JUN-2006 02:42:32	Straylight	43.000	45	Alp Pav	1.9400	26000.	86	22388	No
4	GOM_NL__2PRFIN20060612_025057_000000452048_00290_22388_0699.N1	12-JUN-2006 02:50:57	Twilight	44.500	40	The Sco	1.8590	7100.0	89	22388	No
5	GOM_NL__2PRFIN20060612_025241_000000452048_00290_22388_0700.N1	12-JUN-2006 02:52:41	Twilight	45.000	25	35Lam Sco	1.6200	28000.	90	22388	No
6	GOM_NL__2PRFIN20060612_025404_000000502048_00290_22388_0701.N1	12-JUN-2006 02:54:04	Twilight	49.500	167	10Gam2Sgr	2.9840	4500.0	99	22388	No
7	GOM_NL__2PRFIN20060612_025927_000000402048_00290_22388_0702.N1	12-JUN-2006 02:59:27	Bright	40.000	86	35Eta Oph	2.4300	10200.	80	22388	No
8	GOM_NL__2PRFIN20060612_030113_000000362048_00290_22388_0703.N1	12-JUN-2006 03:01:13	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	22388	No
9	GOM_NL__2PRFIN20060612_031044_000000402048_00290_22388_0704.N1	12-JUN-2006 03:10:44	Bright	39.500	127	27Bet Her	2.7810	4700.0	79	22388	No
10	GOM_NL__2PRFIN20060612_031351_000000392048_00290_22388_0705.N1	12-JUN-2006 03:13:51	Bright	38.500	133	40Zet Her	2.8070	6000.0	77	22388	No
11	GOM_NL__2PRFIN20060612_032052_000000382048_00290_22388_0706.N1	12-JUN-2006 03:20:52	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	22388	No
12	GOM_NL__2PRFIN20060612_033749_000000522048_00290_22388_0707.N1	12-JUN-2006 03:37:49	Bright	51.500	76	27Gam Cas	2.3000	30000.	103	22388	No
13	GOM_NL__2PRFIN20060612_034348_000000462048_00290_22388_0708.N1	12-JUN-2006 03:43:48	Bright	46.000	73	57Gam1And	2.2600	13100.	92	22388	No
14	GOM_NL__2PRFIN20060612_034608_000000552048_00290_22388_0709.N1	12-JUN-2006 03:46:08	Twilight	55.000	53	43Bet And	2.0480	3300.0	110	22388	No
15	GOM_NL__2PRFIN20060612_034929_000000442048_00290_22388_0710.N1	12-JUN-2006 03:49:29	Twilight	44.000	50	13Alp Ari	2.0070	4250.0	88	22388	No
16	GOM_NL__2PRFIN20060612_040429_000000552048_00290_22388_0711.N1	12-JUN-2006 04:04:29	Dark	55.000	52	16Bet Cet	2.0370	4500.0	110	22388	No
17	GOM_NL__2PRFIN20060612_041054_000000492048_00290_22388_0712.N1	12-JUN-2006 04:10:54	Dark	48.500	84	Alp Phe	2.3970	4500.0	97	22388	No
18	GOM_NL__2PRFIN20060612_041656_000000552048_00291_22389_0716.N1	12-JUN-2006 04:16:56	Dark	54.500	63	Bet Gru	2.1500	2800.0	109	22389	No
19	GOM_NL__2PRFIN20060612_041857_000000482048_00291_22389_0717.N1	12-JUN-2006 04:18:57	Dark	47.500	31	Alp Gru	1.7340	15200.	95	22389	No
20	GOM_NL__2PRFIN20060612_042308_000000442048_00291_22389_0718.N1	12-JUN-2006 04:23:08	Straylight	43.500	45	Alp Pav	1.9400	26000.	87	22389	No
21	GOM_NL__2PRFIN20060612_043134_000000422048_00291_22389_0719.N1	12-JUN-2006 04:31:34	Twilight	42.000	40	The Sco	1.8590	7100.0	84	22389	No
22	GOM_NL__2PRFIN20060612_043318_000000432048_00291_22389_0720.N1	12-JUN-2006 04:33:18	Twilight	43.000	25	35Lam Sco	1.6200	28000.	86	22389	No
23	GOM_NL__2PRFIN20060612_043440_000000492048_00291_22389_0721.N1	12-JUN-2006 04:34:40	Twilight	48.500	167	10Gam2Sgr	2.9840	4500.0	97	22389	No
24	GOM_NL__2PRFIN20060612_044003_000000412048_00291_22389_0722.N1	12-JUN-2006 04:40:03	Bright	40.500	86	35Eta Oph	2.4300	10200.	81	22389	No
25	GOM_NL__2PRFIN20060612_044149_000000382048_00291_22389_0723.N1	12-JUN-2006 04:41:49	Bright	37.500	98	13Zet Oph	2.5710	30000.	75	22389	No
26	GOM_NL__2PRFIN20060612_045119_000000382048_00291_22389_0724.N1	12-JUN-2006 04:51:19	Bright	38.000	127	27Bet Her	2.7810	4700.0	76	22389	No
27	GOM_NL__2PRFIN20060612_045427_000000382048_00291_22389_0725.N1	12-JUN-2006 04:54:27	Bright	37.500	133	40Zet Her	2.8070	6000.0	75	22389	No
28	GOM_NL__2PRFIN20060612_050127_000000412048_00291_22389_0726.N1	12-JUN-2006 05:01:27	Bright	41.000	130	23Bet Dra	2.7990	5800.0	82	22389	No
29	GOM_NL__2PRFIN20060612_051824_000000432048_00291_22389_0727.N1	12-JUN-2006 05:18:24	Bright	43.000	76	27Gam Cas	2.3000	30000.	86	22389	No
30	GOM_NL__2PRFIN20060612_052424_000000402048_00291_22389_0728.N1	12-JUN-2006 05:24:24	Bright	39.500	73	57Gam1And	2.2600	13100.	79	22389	No
31	GOM_NL__2PRFIN20060612_052644_000000532048_00291_22389_0729.N1	12-JUN-2006 05:26:44	Twilight	52.500	53	43Bet And	2.0480	3300.0	105	22389	No
32	GOM_NL__2PRFIN20060612_053005_000000462048_00291_22389_0730.N1	12-JUN-2006 05:30:05	Twilight	46.000	50	13Alp Ari	2.0070	4250.0	92	22389	No
33	GOM_NL__2PRFIN20060612_054506_000000562048_00291_22389_0731.N1	12-JUN-2006 05:45:06	Dark	56.000	52	16Bet Cet	2.0370	4500.0	112	22389	No
34	GOM_NL__2PRFIN20060612_055131_000000502048_00291_22389_0732.N1	12-JUN-2006 05:51:31	Dark	49.500	84	Alp Phe	2.3970	4500.0	99	22389	No
35	GOM_NL__2PRFIN20060612_055733_000000612048_00292_22390_0716.N1	12-JUN-2006 05:57:33	Dark	61.000	63	Bet Gru	2.1500	2800.0	122	22390	No
36	GOM_NL__2PRFIN20060612_055934_000000492048_00292_22390_0717.N1	12-JUN-2006 05:59:34	Dark	48.500	31	Alp Gru	1.7340	15200.	97	22390	No
37	GOM_NL__2PRFIN20060612_060345_000000422048_00292_22390_0718.N1	12-JUN-2006 06:03:45	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	22390	No
38	GOM_NL__2PRFIN20060612_061210_000000442048_00292_22390_0719.N1	12-JUN-2006 06:12:10	Twilight	43.500	40	The Sco	1.8590	7100.0	87	22390	No
39	GOM_NL__2PRFIN20060612_061354_000000432048_00292_22390_0720.N1	12-JUN-2006 06:13:54	Twilight	43.000	25	35Lam Sco	1.6200	28000.	86	22390	No
40	GOM_NL__2PRFIN20060612_061516_000000492048_00292_22390_0721.N1	12-JUN-2006 06:15:16	Twilight	48.500	167	10Gam2Sgr	2.9840	4500.0	97	22390	No
41	GOM_NL__2PRFIN20060612_062040_000000412048_00292_22390_0722.N1	12-JUN-2006 06:20:40	Bright	41.000	86	35Eta Oph	2.4300	10200.	82	22390	No
42	GOM_NL__2PRFIN20060612_062225_000000382048_00292_22390_0723.N1	12-JUN-2006 06:22:25	Bright	37.500	98	13Zet Oph	2.5710	30000.	75	22390	No

3. Quality information per product

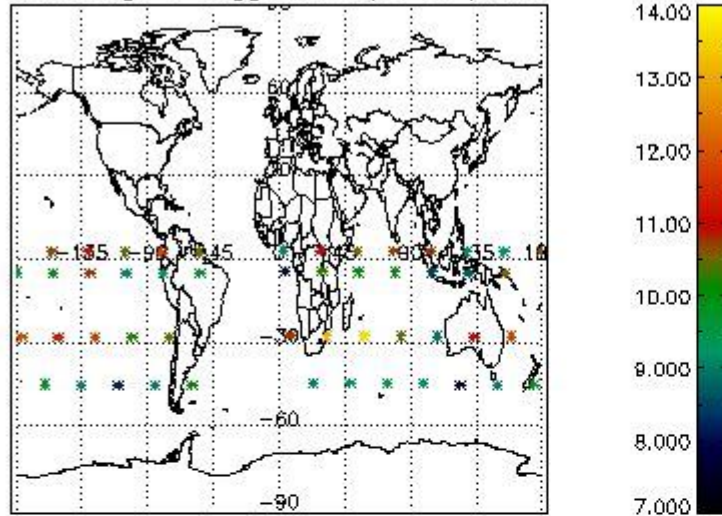
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

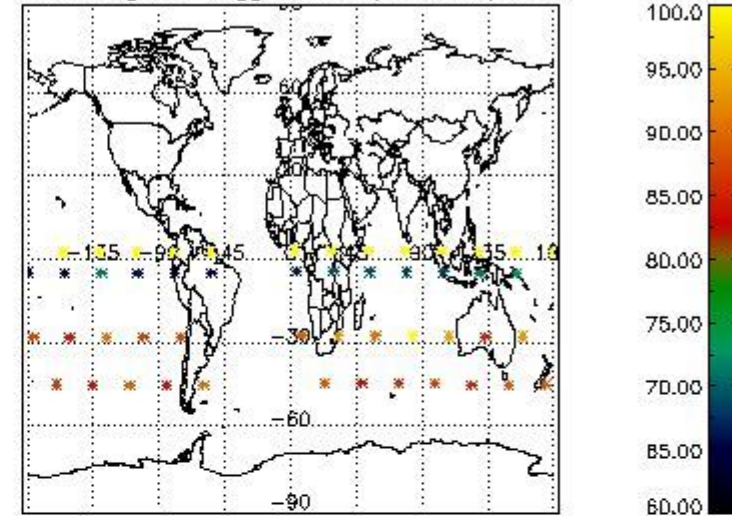


3.2 Plot quality information per product (world map)

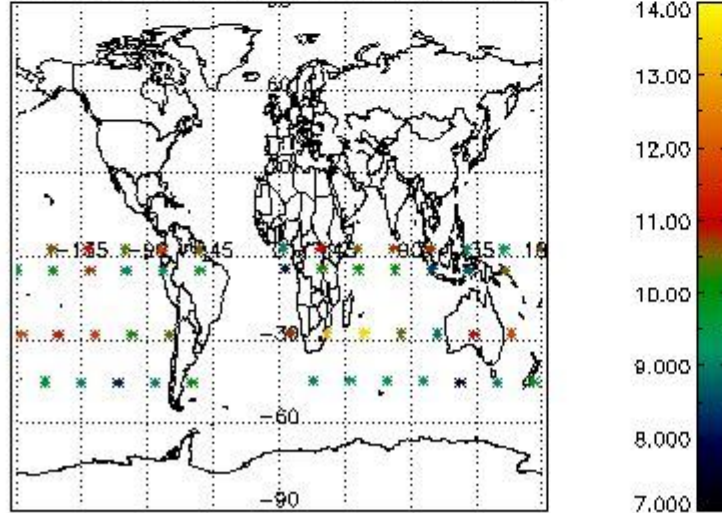
Percentage of flagged data per O3 profile



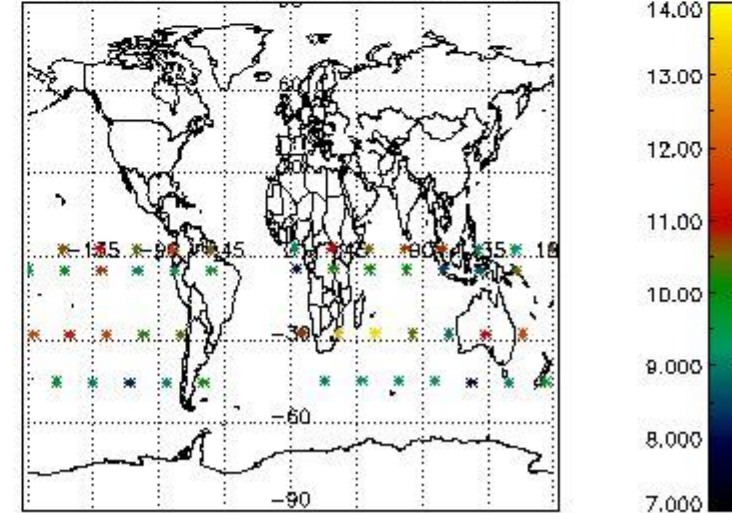
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

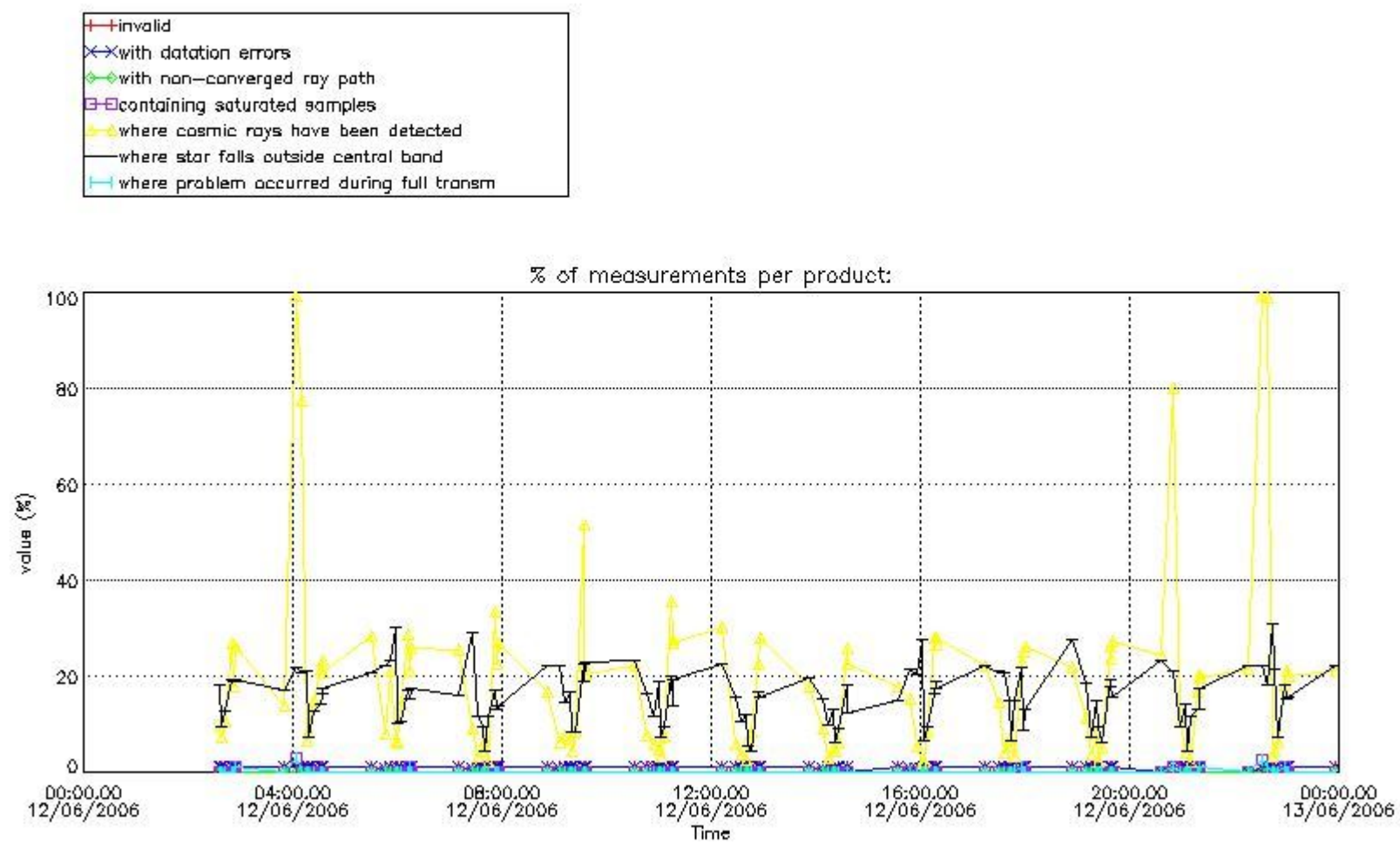


4. Level 1 quality information per product

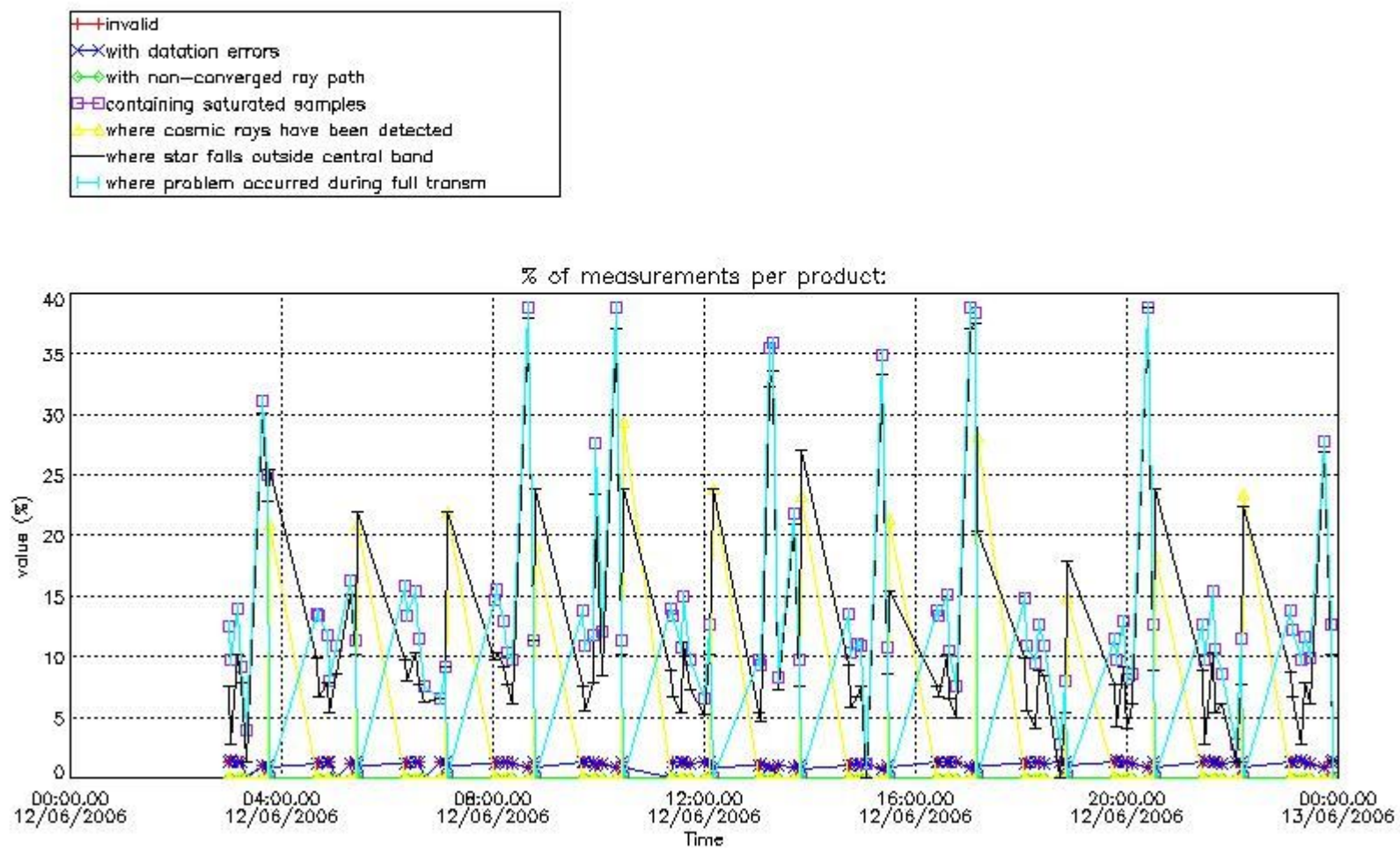
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



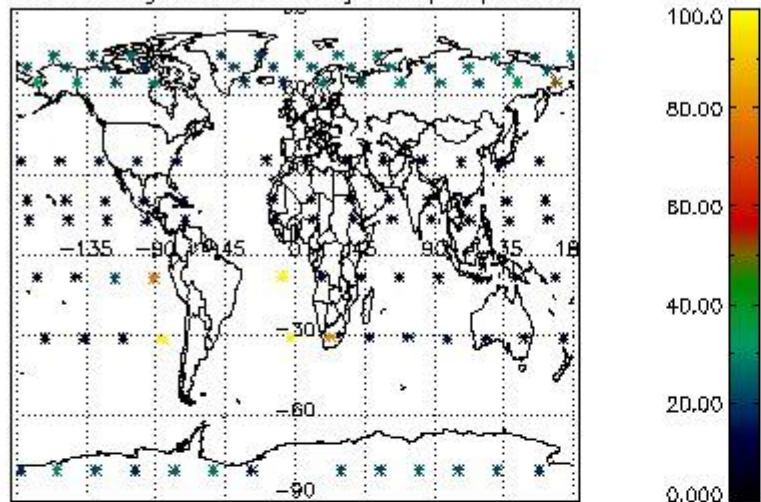
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



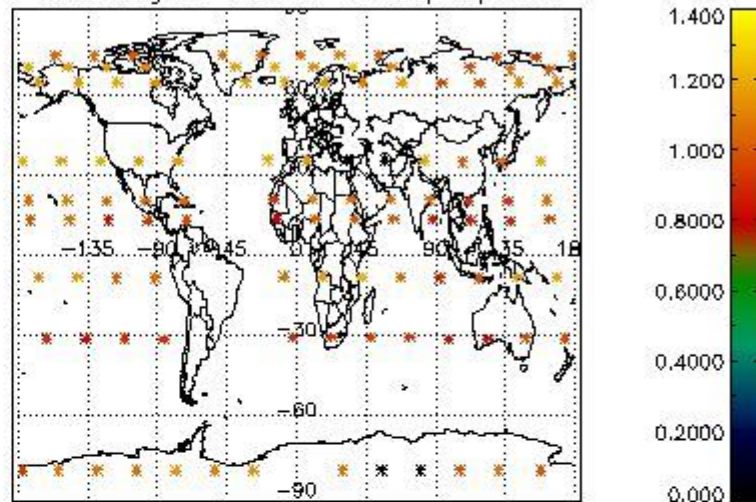
4.2 Plot quality information per product coming from level 1b processing (world map)

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

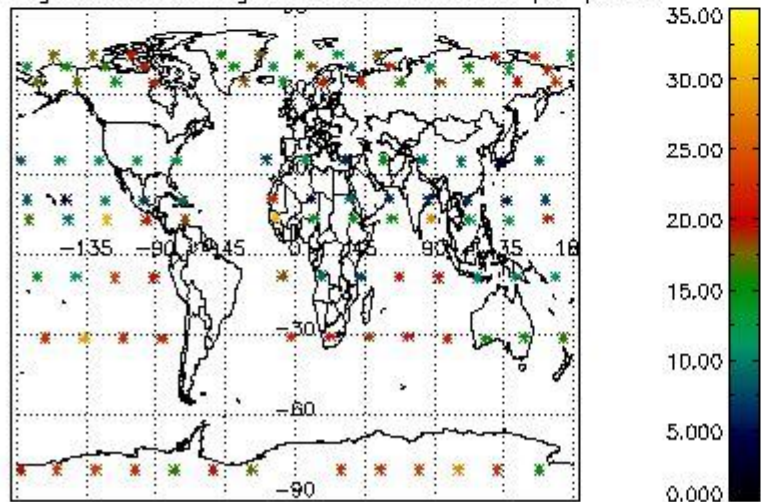
Percentage of cosmic ray hits per profile



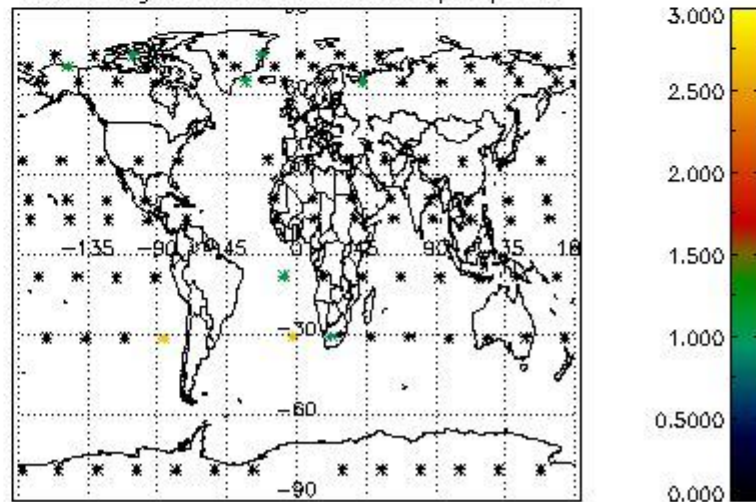
Percentage of datation errors per profile



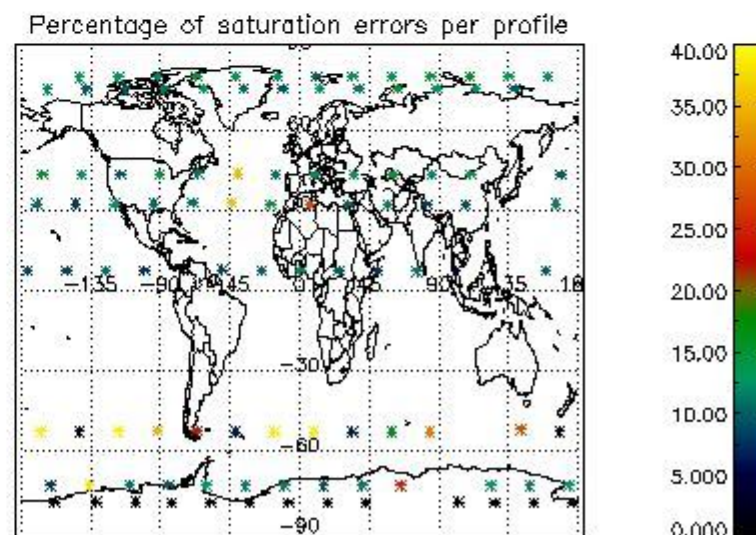
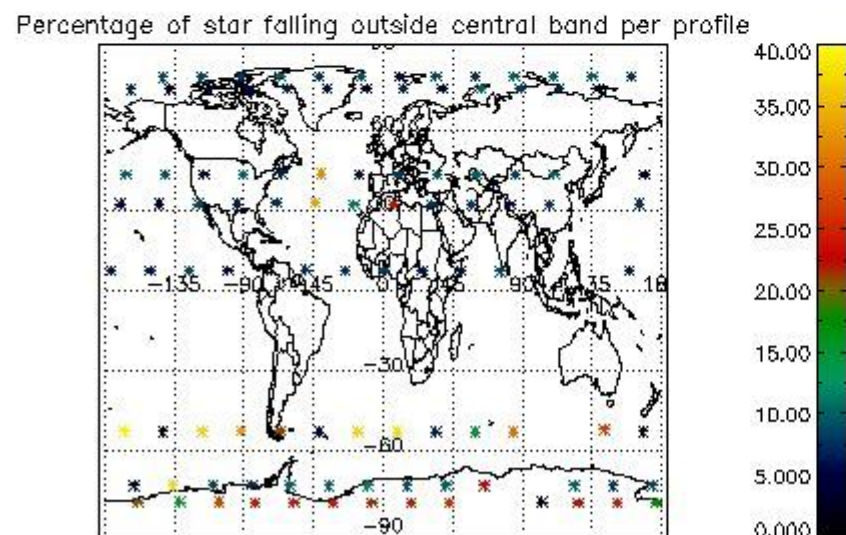
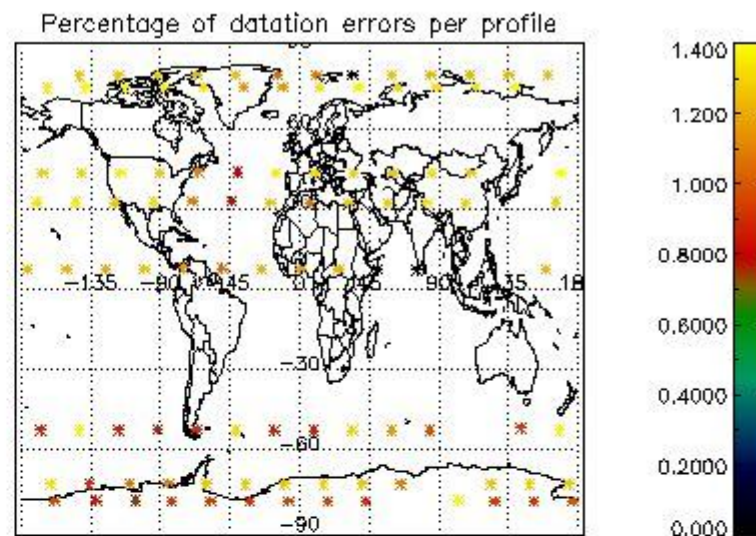
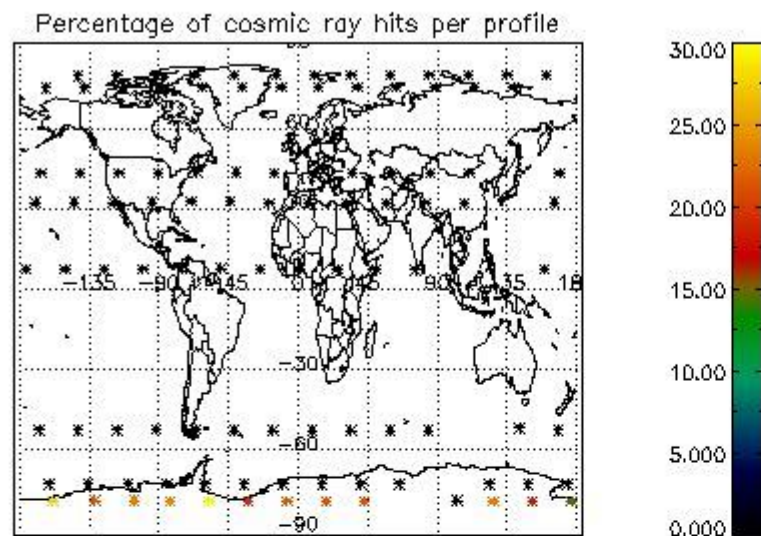
Percentage of star falling outside central band per profile



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

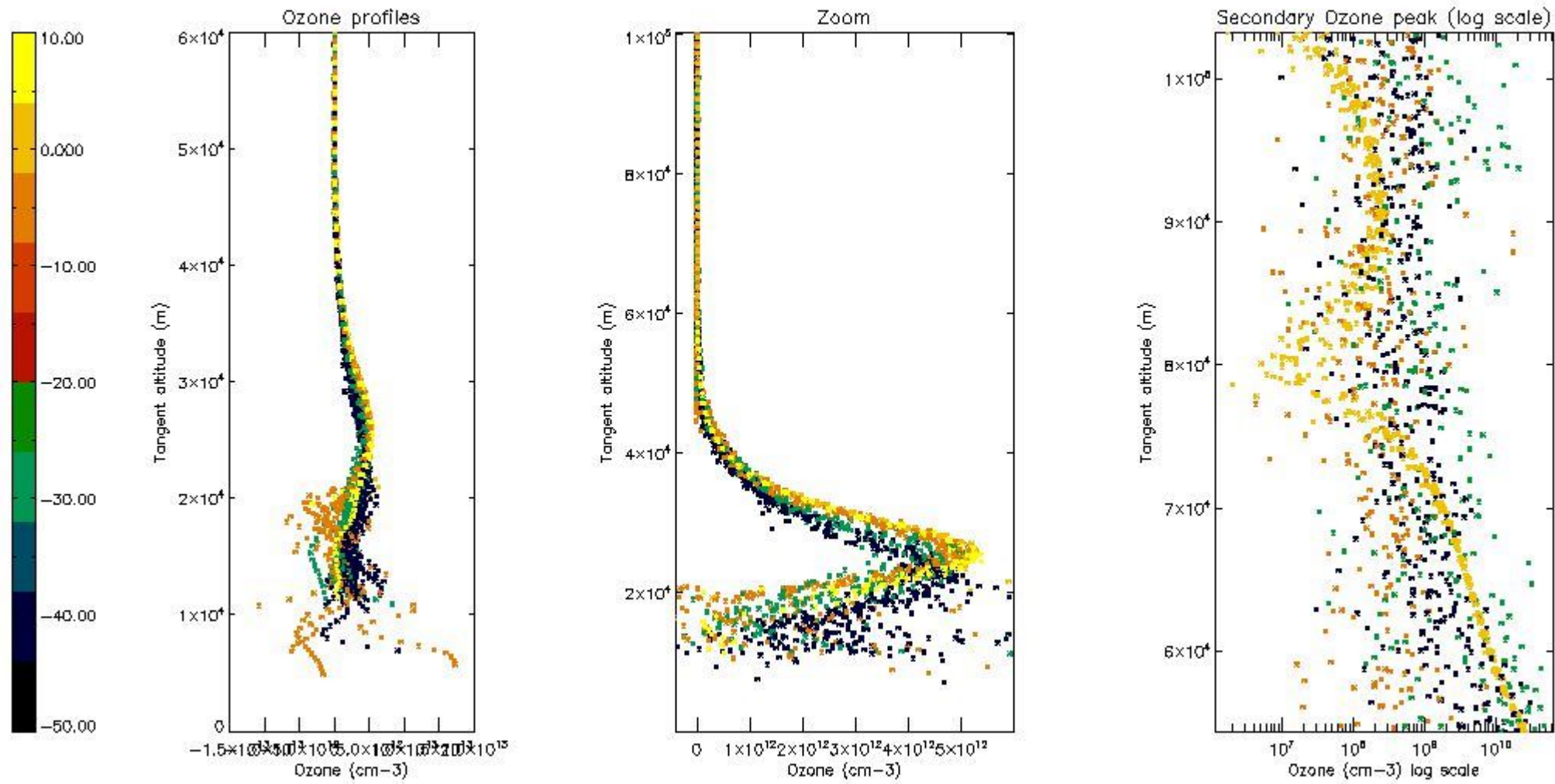
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	27
STD < 20	10

STD < 10	7
STD < 5	4

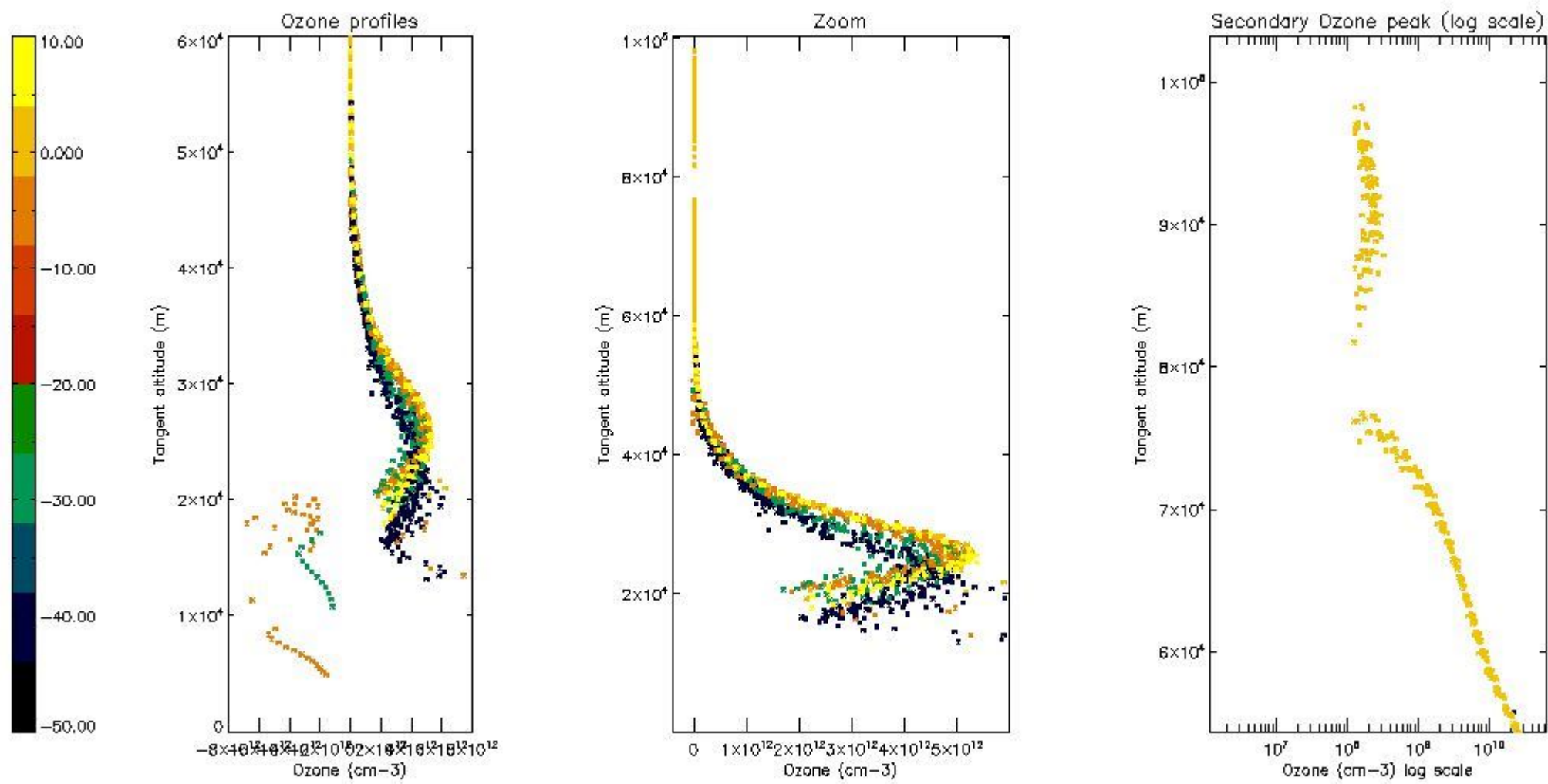
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



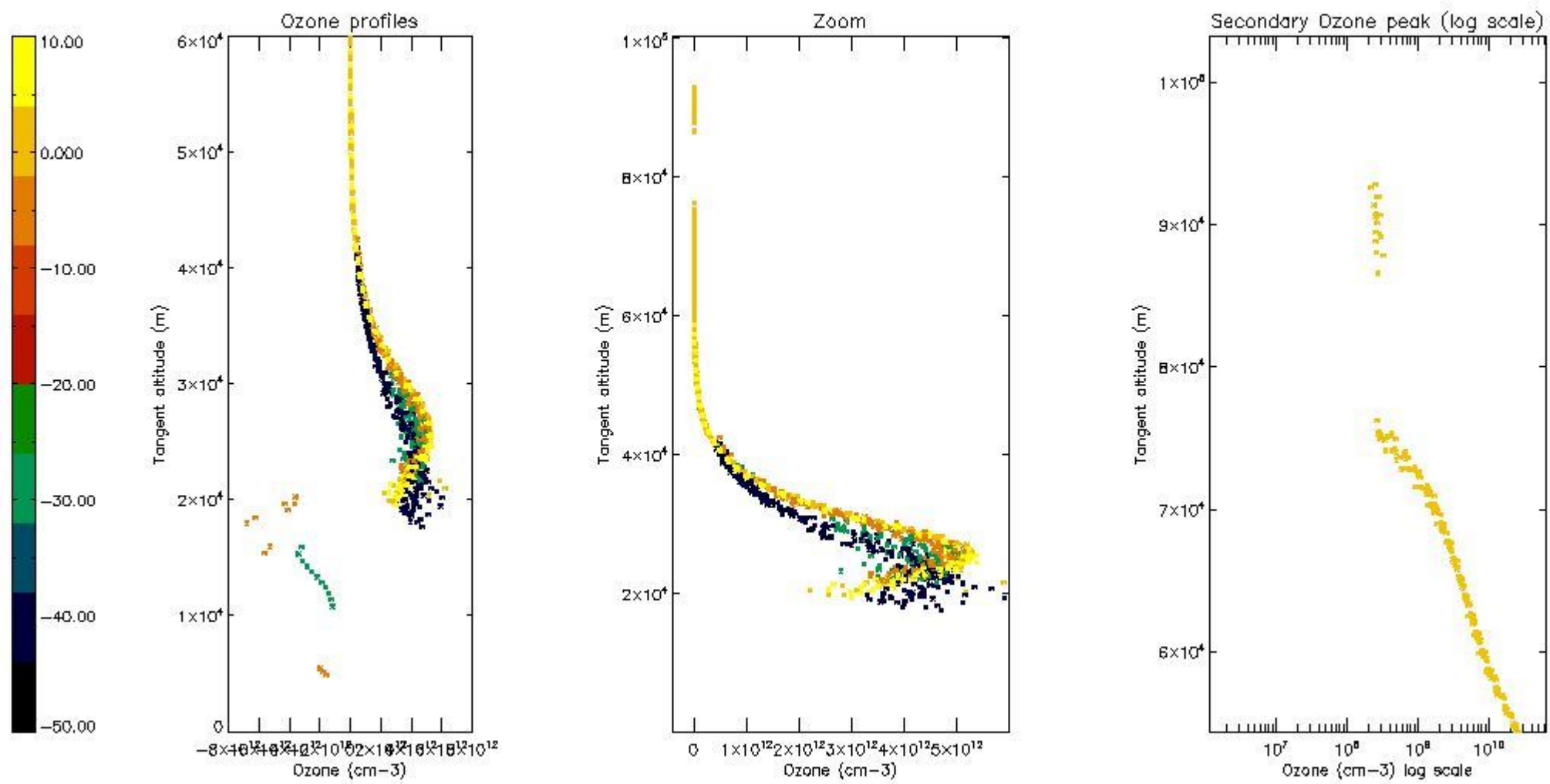
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



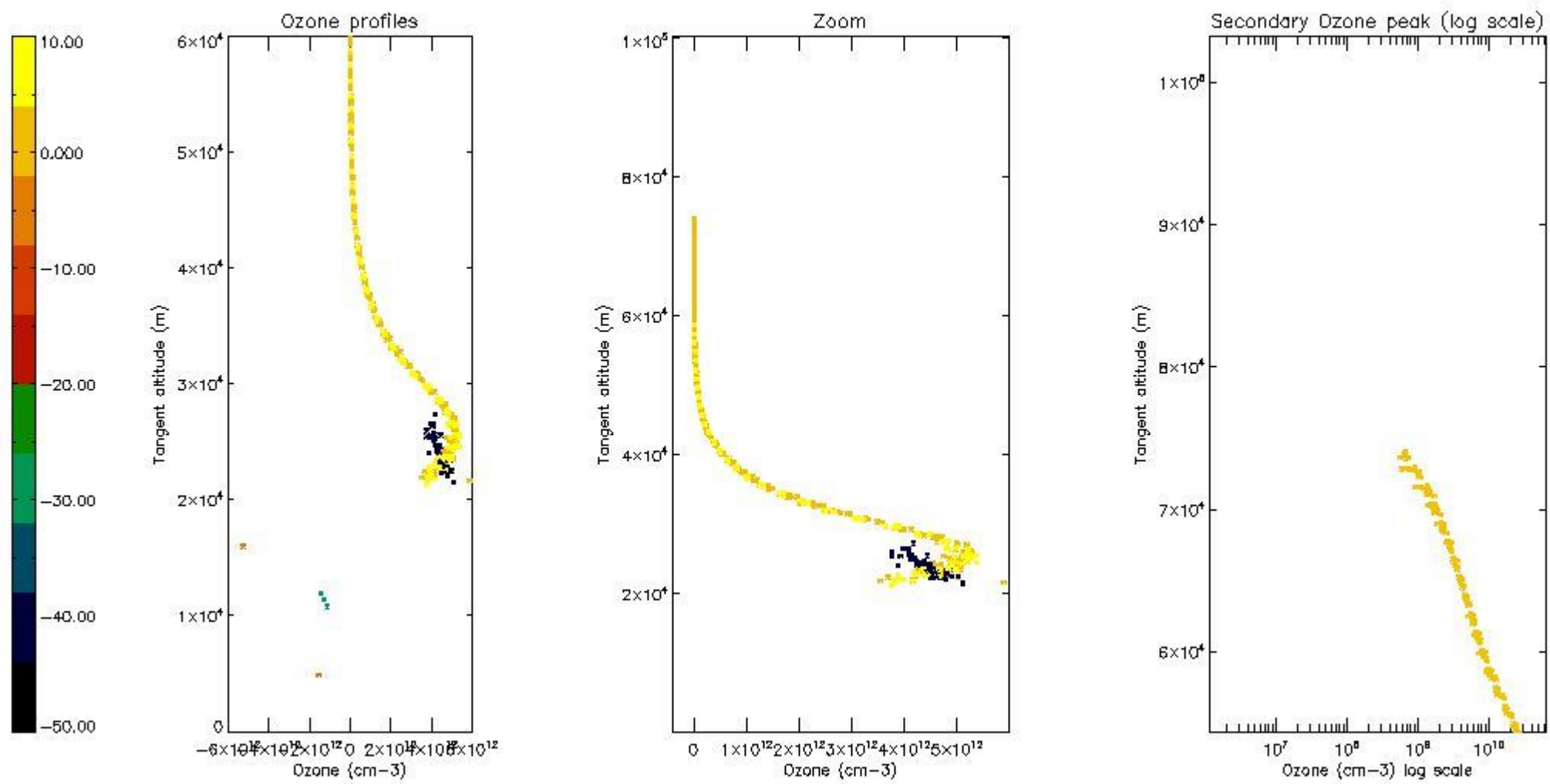
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



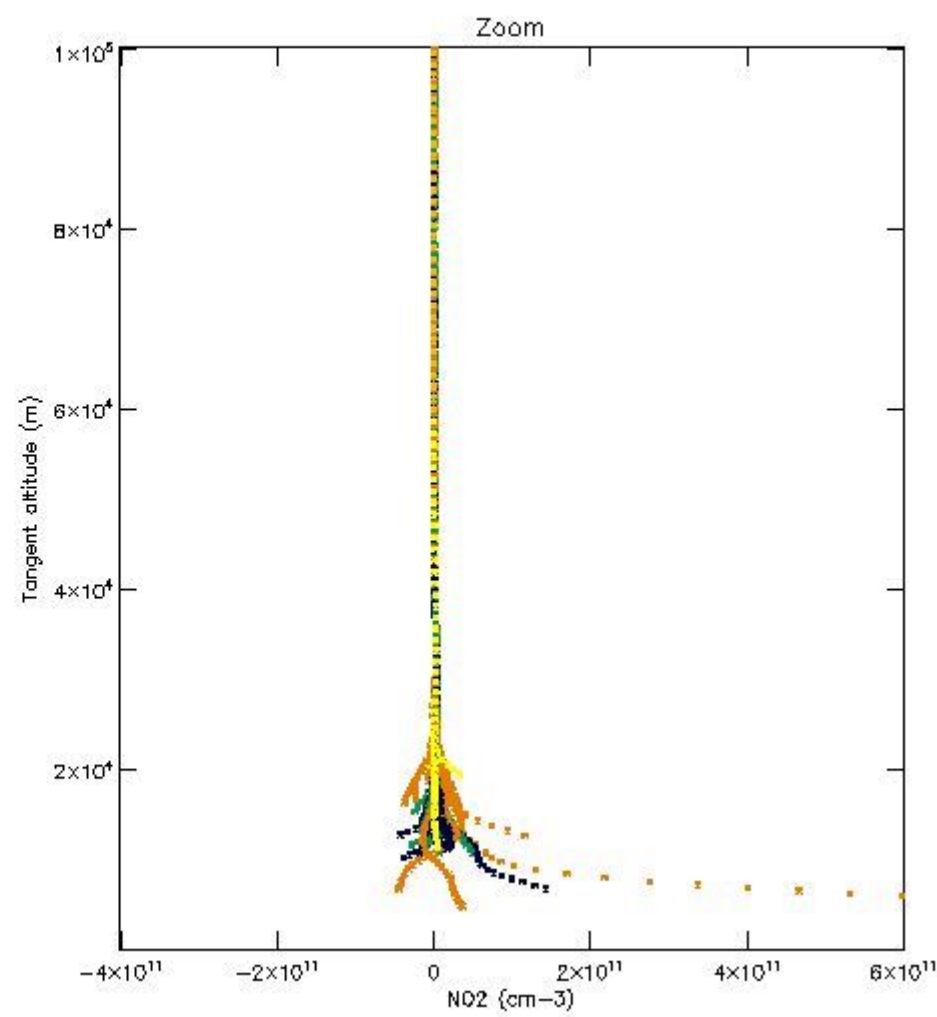
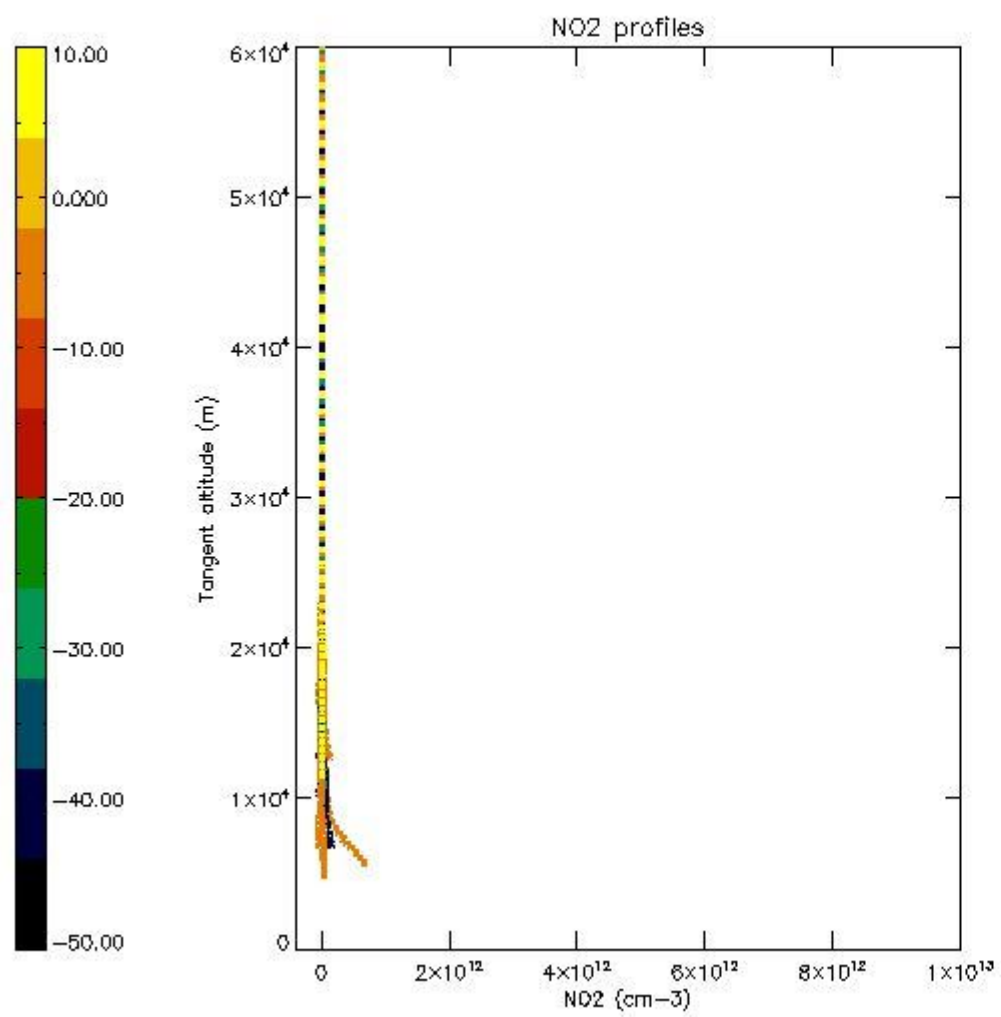
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



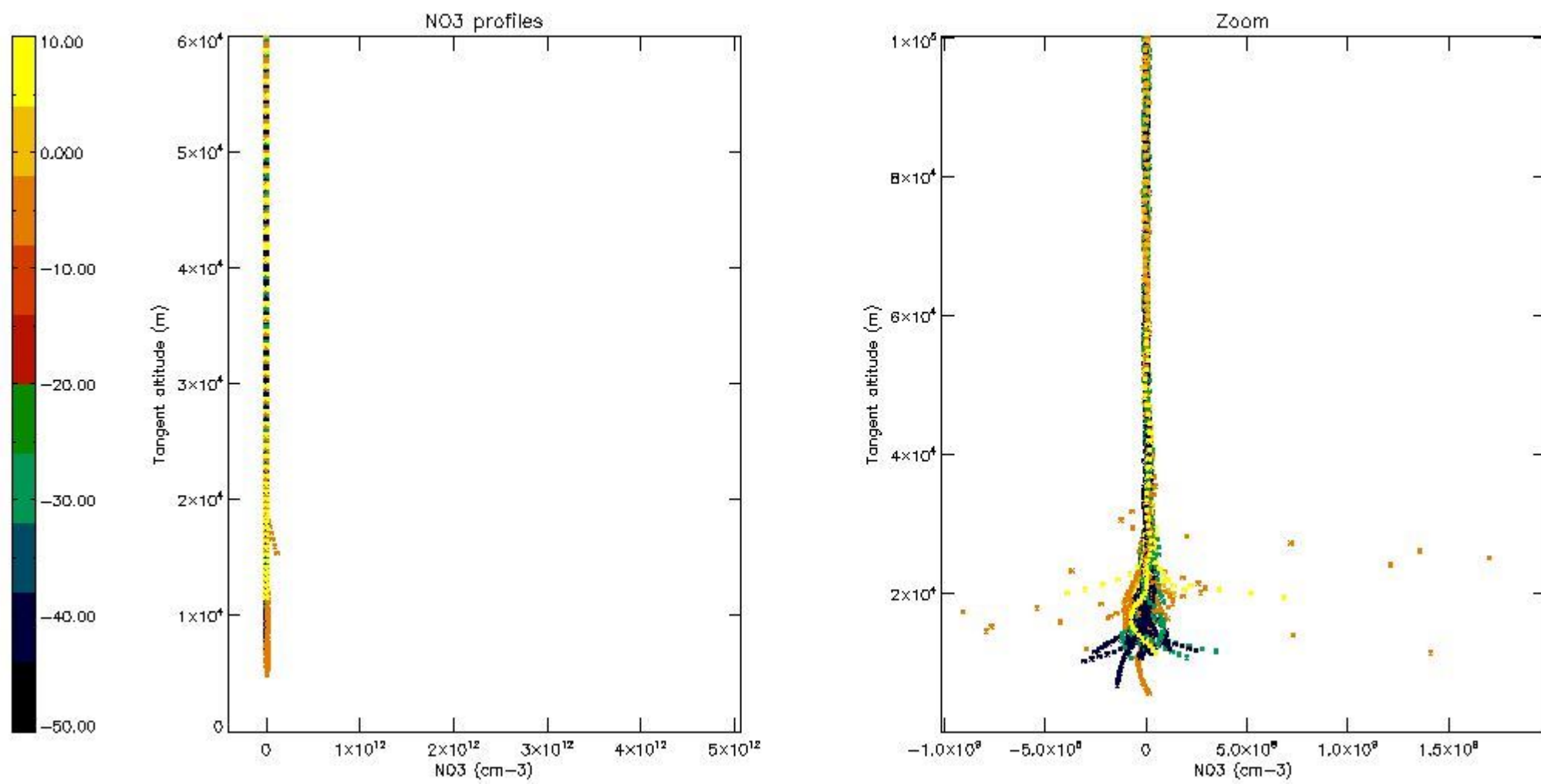
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



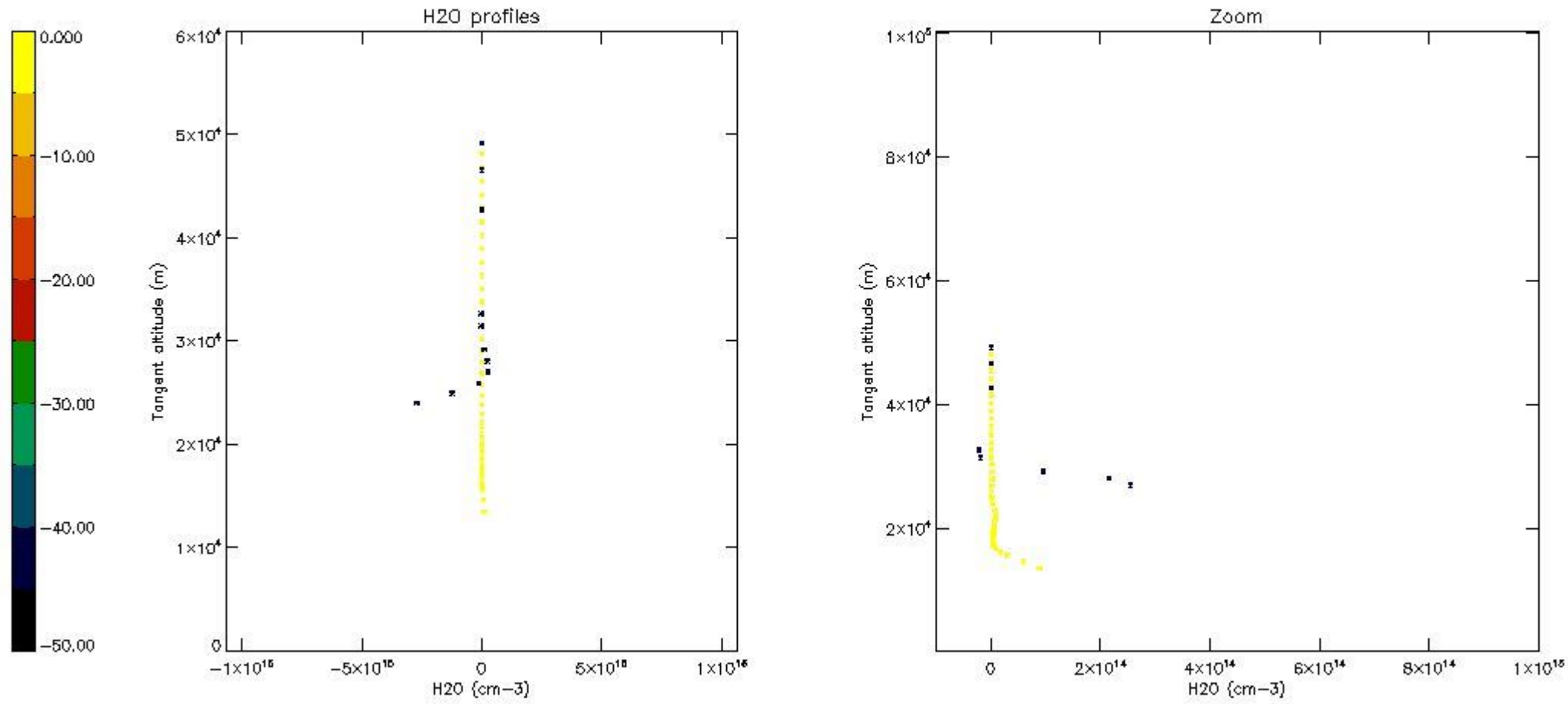
5.7 Plot NO3 profiles for all STD (dark without errors)

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	12-JUN-2006 02:36:19
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	12-JUN-2006 02:36:19
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	12-JUN-2006 02:36:19

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

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

[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](#)

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

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[5.1 Ozone statistics based on quality of products](#)

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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.

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Time of report generation	23APR2013 23:37:20
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Stop time of products	13-06-2006 (13JUN2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	217
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__2PRFIN20060612_023619_000000522048_00290_22388_0696.N1	12-JUN-2006 02:36:19	Dark	52.000	63	Bet Gru	2.1500	2800.0	104	22388	No
2	GOM_NL__2PRFIN20060612_023821_000000482048_00290_22388_0697.N1	12-JUN-2006 02:38:21	Dark	48.000	31	Alp Gru	1.7340	15200.	96	22388	No
3	GOM_NL__2PRFIN20060612_024232_000000432048_00290_22388_0698.N1	12-JUN-2006 02:42:32	Straylight	43.000	45	Alp Pav	1.9400	26000.	86	22388	No
4	GOM_NL__2PRFIN20060612_025057_000000452048_00290_22388_0699.N1	12-JUN-2006 02:50:57	Twilight	44.500	40	The Sco	1.8590	7100.0	89	22388	No
5	GOM_NL__2PRFIN20060612_025241_000000452048_00290_22388_0700.N1	12-JUN-2006 02:52:41	Twilight	45.000	25	35Lam Sco	1.6200	28000.	90	22388	No
6	GOM_NL__2PRFIN20060612_025404_000000502048_00290_22388_0701.N1	12-JUN-2006 02:54:04	Twilight	49.500	167	10Gam2Sgr	2.9840	4500.0	99	22388	No
7	GOM_NL__2PRFIN20060612_025927_000000402048_00290_22388_0702.N1	12-JUN-2006 02:59:27	Bright	40.000	86	35Eta Oph	2.4300	10200.	80	22388	No
8	GOM_NL__2PRFIN20060612_030113_000000362048_00290_22388_0703.N1	12-JUN-2006 03:01:13	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	22388	No
9	GOM_NL__2PRFIN20060612_031044_000000402048_00290_22388_0704.N1	12-JUN-2006 03:10:44	Bright	39.500	127	27Bet Her	2.7810	4700.0	79	22388	No
10	GOM_NL__2PRFIN20060612_031351_000000392048_00290_22388_0705.N1	12-JUN-2006 03:13:51	Bright	38.500	133	40Zet Her	2.8070	6000.0	77	22388	No
11	GOM_NL__2PRFIN20060612_032052_000000382048_00290_22388_0706.N1	12-JUN-2006 03:20:52	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	22388	No
12	GOM_NL__2PRFIN20060612_033749_000000522048_00290_22388_0707.N1	12-JUN-2006 03:37:49	Bright	51.500	76	27Gam Cas	2.3000	30000.	103	22388	No
13	GOM_NL__2PRFIN20060612_034348_000000462048_00290_22388_0708.N1	12-JUN-2006 03:43:48	Bright	46.000	73	57Gam1And	2.2600	13100.	92	22388	No
14	GOM_NL__2PRFIN20060612_034608_000000552048_00290_22388_0709.N1	12-JUN-2006 03:46:08	Twilight	55.000	53	43Bet And	2.0480	3300.0	110	22388	No
15	GOM_NL__2PRFIN20060612_034929_000000442048_00290_22388_0710.N1	12-JUN-2006 03:49:29	Twilight	44.000	50	13Alp Ari	2.0070	4250.0	88	22388	No
16	GOM_NL__2PRFIN20060612_040429_000000552048_00290_22388_0711.N1	12-JUN-2006 04:04:29	Dark	55.000	52	16Bet Cet	2.0370	4500.0	110	22388	No
17	GOM_NL__2PRFIN20060612_041054_000000492048_00290_22388_0712.N1	12-JUN-2006 04:10:54	Dark	48.500	84	Alp Phe	2.3970	4500.0	97	22388	No
18	GOM_NL__2PRFIN20060612_041656_000000552048_00291_22389_0716.N1	12-JUN-2006 04:16:56	Dark	54.500	63	Bet Gru	2.1500	2800.0	109	22389	No
19	GOM_NL__2PRFIN20060612_041857_000000482048_00291_22389_0717.N1	12-JUN-2006 04:18:57	Dark	47.500	31	Alp Gru	1.7340	15200.	95	22389	No
20	GOM_NL__2PRFIN20060612_042308_000000442048_00291_22389_0718.N1	12-JUN-2006 04:23:08	Straylight	43.500	45	Alp Pav	1.9400	26000.	87	22389	No
21	GOM_NL__2PRFIN20060612_043134_000000422048_00291_22389_0719.N1	12-JUN-2006 04:31:34	Twilight	42.000	40	The Sco	1.8590	7100.0	84	22389	No
22	GOM_NL__2PRFIN20060612_043318_000000432048_00291_22389_0720.N1	12-JUN-2006 04:33:18	Twilight	43.000	25	35Lam Sco	1.6200	28000.	86	22389	No
23	GOM_NL__2PRFIN20060612_043440_000000492048_00291_22389_0721.N1	12-JUN-2006 04:34:40	Twilight	48.500	167	10Gam2Sgr	2.9840	4500.0	97	22389	No
24	GOM_NL__2PRFIN20060612_044003_000000412048_00291_22389_0722.N1	12-JUN-2006 04:40:03	Bright	40.500	86	35Eta Oph	2.4300	10200.	81	22389	No
25	GOM_NL__2PRFIN20060612_044149_000000382048_00291_22389_0723.N1	12-JUN-2006 04:41:49	Bright	37.500	98	13Zet Oph	2.5710	30000.	75	22389	No
26	GOM_NL__2PRFIN20060612_045119_000000382048_00291_22389_0724.N1	12-JUN-2006 04:51:19	Bright	38.000	127	27Bet Her	2.7810	4700.0	76	22389	No
27	GOM_NL__2PRFIN20060612_045427_000000382048_00291_22389_0725.N1	12-JUN-2006 04:54:27	Bright	37.500	133	40Zet Her	2.8070	6000.0	75	22389	No
28	GOM_NL__2PRFIN20060612_050127_000000412048_00291_22389_0726.N1	12-JUN-2006 05:01:27	Bright	41.000	130	23Bet Dra	2.7990	5800.0	82	22389	No
29	GOM_NL__2PRFIN20060612_051824_000000432048_00291_22389_0727.N1	12-JUN-2006 05:18:24	Bright	43.000	76	27Gam Cas	2.3000	30000.	86	22389	No
30	GOM_NL__2PRFIN20060612_052424_000000402048_00291_22389_0728.N1	12-JUN-2006 05:24:24	Bright	39.500	73	57Gam1And	2.2600	13100.	79	22389	No
31	GOM_NL__2PRFIN20060612_052644_000000532048_00291_22389_0729.N1	12-JUN-2006 05:26:44	Twilight	52.500	53	43Bet And	2.0480	3300.0	105	22389	No
32	GOM_NL__2PRFIN20060612_053005_000000462048_00291_22389_0730.N1	12-JUN-2006 05:30:05	Twilight	46.000	50	13Alp Ari	2.0070	4250.0	92	22389	No
33	GOM_NL__2PRFIN20060612_054506_000000562048_00291_22389_0731.N1	12-JUN-2006 05:45:06	Dark	56.000	52	16Bet Cet	2.0370	4500.0	112	22389	No
34	GOM_NL__2PRFIN20060612_055131_000000502048_00291_22389_0732.N1	12-JUN-2006 05:51:31	Dark	49.500	84	Alp Phe	2.3970	4500.0	99	22389	No
35	GOM_NL__2PRFIN20060612_055733_000000612048_00292_22390_0716.N1	12-JUN-2006 05:57:33	Dark	61.000	63	Bet Gru	2.1500	2800.0	122	22390	No
36	GOM_NL__2PRFIN20060612_055934_000000492048_00292_22390_0717.N1	12-JUN-2006 05:59:34	Dark	48.500	31	Alp Gru	1.7340	15200.	97	22390	No
37	GOM_NL__2PRFIN20060612_060345_000000422048_00292_22390_0718.N1	12-JUN-2006 06:03:45	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	22390	No
38	GOM_NL__2PRFIN20060612_061210_000000442048_00292_22390_0719.N1	12-JUN-2006 06:12:10	Twilight	43.500	40	The Sco	1.8590	7100.0	87	22390	No
39	GOM_NL__2PRFIN20060612_061354_000000432048_00292_22390_0720.N1	12-JUN-2006 06:13:54	Twilight	43.000	25	35Lam Sco	1.6200	28000.	86	22390	No
40	GOM_NL__2PRFIN20060612_061516_000000492048_00292_22390_0721.N1	12-JUN-2006 06:15:16	Twilight	48.500	167	10Gam2Sgr	2.9840	4500.0	97	22390	No
41	GOM_NL__2PRFIN20060612_062040_000000412048_00292_22390_0722.N1	12-JUN-2006 06:20:40	Bright	41.000	86	35Eta Oph	2.4300	10200.	82	22390	No
42	GOM_NL__2PRFIN20060612_062225_000000382048_00292_22390_0723.N1	12-JUN-2006 06:22:25	Bright	37.500	98	13Zet Oph	2.5710	30000.	75	22390	No

43	GOM_NL__2PRFIN20060612_063155_000000392048_00292_22390_0724.N1	12-JUN-2006 06:31:55	Bright	39.000	127	27Bet Her	2.7810	4700.0	78	22390	No
44	GOM_NL__2PRFIN20060612_063503_000000392048_00292_22390_0725.N1	12-JUN-2006 06:35:03	Bright	39.000	133	40Zet Her	2.8070	6000.0	78	22390	No
45	GOM_NL__2PRFIN20060612_064203_000000402048_00292_22390_0726.N1	12-JUN-2006 06:42:03	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	22390	No
46	GOM_NL__2PRFIN20060612_065900_000000392048_00292_22390_0727.N1	12-JUN-2006 06:59:00	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	22390	No
47	GOM_NL__2PRFIN20060612_070500_000000392048_00292_22390_0728.N1	12-JUN-2006 07:05:00	Bright	38.500	73	57Gam1And	2.2600	13100.	77	22390	No
48	GOM_NL__2PRFIN20060612_070720_000000532048_00292_22390_0729.N1	12-JUN-2006 07:07:20	Twilight	52.500	53	43Bet And	2.0480	3300.0	105	22390	No
49	GOM_NL__2PRFIN20060612_071041_000000442048_00292_22390_0730.N1	12-JUN-2006 07:10:41	Twilight	43.500	50	13Alp Ari	2.0070	4250.0	87	22390	No
50	GOM_NL__2PRFIN20060612_072543_000000622048_00292_22390_0731.N1	12-JUN-2006 07:25:43	Dark	61.500	52	16Bet Cet	2.0370	4500.0	123	22390	No
51	GOM_NL__2PRFIN20060612_073207_000000442048_00292_22390_0732.N1	12-JUN-2006 07:32:07	Dark	43.500	84	Alp Phe	2.3970	4500.0	87	22390	No
52	GOM_NL__2PRFIN20060612_073810_000000472048_00293_22391_0716.N1	12-JUN-2006 07:38:10	Dark	47.000	63	Bet Gru	2.1500	2800.0	94	22391	No
53	GOM_NL__2PRFIN20060612_074011_000000462048_00293_22391_0717.N1	12-JUN-2006 07:40:11	Dark	46.000	31	Alp Gru	1.7340	15200.	92	22391	No
54	GOM_NL__2PRFIN20060612_074421_000000432048_00293_22391_0718.N1	12-JUN-2006 07:44:21	Straylight	43.000	45	Alp Pav	1.9400	26000.	86	22391	No
55	GOM_NL__2PRFIN20060612_075246_000000442048_00293_22391_0719.N1	12-JUN-2006 07:52:46	Twilight	43.500	40	The Sco	1.8590	7100.0	87	22391	No
56	GOM_NL__2PRFIN20060612_075430_000000422048_00293_22391_0720.N1	12-JUN-2006 07:54:30	Twilight	42.000	25	35Lam Sco	1.6200	28000.	84	22391	No
57	GOM_NL__2PRFIN20060612_075552_000000472048_00293_22391_0721.N1	12-JUN-2006 07:55:52	Twilight	46.500	167	10Gam2Sgr	2.9840	4500.0	93	22391	No
58	GOM_NL__2PRFIN20060612_080115_000000412048_00293_22391_0722.N1	12-JUN-2006 08:01:15	Bright	41.000	86	35Eta Oph	2.4300	10200.	82	22391	No
59	GOM_NL__2PRFIN20060612_080301_000000392048_00293_22391_0723.N1	12-JUN-2006 08:03:01	Bright	38.500	98	13Zet Oph	2.5710	30000.	77	22391	No
60	GOM_NL__2PRFIN20060612_081231_000000392048_00293_22391_0724.N1	12-JUN-2006 08:12:31	Bright	38.500	127	27Bet Her	2.7810	4700.0	77	22391	No
61	GOM_NL__2PRFIN20060612_081538_000000392048_00293_22391_0725.N1	12-JUN-2006 08:15:38	Bright	39.000	133	40Zet Her	2.8070	6000.0	78	22391	No
62	GOM_NL__2PRFIN20060612_082238_000000412048_00293_22391_0726.N1	12-JUN-2006 08:22:38	Bright	41.000	130	23Bet Dra	2.7990	5800.0	82	22391	No
63	GOM_NL__2PRFIN20060612_083936_000000582048_00293_22391_0727.N1	12-JUN-2006 08:39:36	Bright	58.000	76	27Gam Cas	2.3000	30000.	116	22391	No
64	GOM_NL__2PRFIN20060612_084536_000000402048_00293_22391_0728.N1	12-JUN-2006 08:45:36	Bright	39.500	73	57Gam1And	2.2600	13100.	79	22391	No
65	GOM_NL__2PRFIN20060612_084756_000000552048_00293_22391_0729.N1	12-JUN-2006 08:47:56	Twilight	54.500	53	43Bet And	2.0480	3300.0	109	22391	No
66	GOM_NL__2PRFIN20060612_085117_000000482048_00293_22391_0730.N1	12-JUN-2006 08:51:17	Twilight	47.500	50	13Alp Ari	2.0070	4250.0	95	22391	No
67	GOM_NL__2PRFIN20060612_090620_000000562048_00293_22391_0731.N1	12-JUN-2006 09:06:20	Dark	56.000	52	16Bet Cet	2.0370	4500.0	112	22391	No
68	GOM_NL__2PRFIN20060612_091244_000000452048_00293_22391_0732.N1	12-JUN-2006 09:12:44	Dark	45.000	84	Alp Phe	2.3970	4500.0	90	22391	No
69	GOM_NL__2PRFIN20060612_091846_000000512048_00294_22392_0716.N1	12-JUN-2006 09:18:46	Dark	51.000	63	Bet Gru	2.1500	2800.0	102	22392	No
70	GOM_NL__2PRFIN20060612_092048_000000482048_00294_22392_0717.N1	12-JUN-2006 09:20:48	Dark	47.500	31	Alp Gru	1.7340	15200.	95	22392	No
71	GOM_NL__2PRFIN20060612_092458_000000422048_00294_22392_0718.N1	12-JUN-2006 09:24:58	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	22392	No
72	GOM_NL__2PRFIN20060612_093323_000000472048_00294_22392_0719.N1	12-JUN-2006 09:33:23	Twilight	46.500	40	The Sco	1.8590	7100.0	93	22392	No
73	GOM_NL__2PRFIN20060612_093448_000000502048_00294_22392_0720.N1	12-JUN-2006 09:34:48	Twilight	50.000	38	20Eps Sgr	1.8360	11000.	100	22392	No
74	GOM_NL__2PRFIN20060612_093621_000000552048_00294_22392_0721.N1	12-JUN-2006 09:36:21	Twilight	54.500	116	19Del Sgr	2.7000	4100.0	109	22392	No
75	GOM_NL__2PRFIN20060612_094152_000000402048_00294_22392_0722.N1	12-JUN-2006 09:41:52	Bright	40.000	86	35Eta Oph	2.4300	10200.	80	22392	No
76	GOM_NL__2PRFIN20060612_094337_000000372048_00294_22392_0723.N1	12-JUN-2006 09:43:37	Bright	36.500	98	13Zet Oph	2.5710	30000.	73	22392	No
77	GOM_NL__2PRFIN20060612_095307_000000382048_00294_22392_0724.N1	12-JUN-2006 09:53:07	Bright	38.000	127	27Bet Her	2.7810	4700.0	76	22392	No
78	GOM_NL__2PRFIN20060612_095614_000000472048_00294_22392_0725.N1	12-JUN-2006 09:56:14	Bright	47.000	133	40Zet Her	2.8070	6000.0	94	22392	No
79	GOM_NL__2PRFIN20060612_100314_000000422048_00294_22392_0726.N1	12-JUN-2006 10:03:14	Bright	41.500	130	23Bet Dra	2.7990	5800.0	83	22392	No
80	GOM_NL__2PRFIN20060612_102012_000000582048_00294_22392_0727.N1	12-JUN-2006 10:20:12	Bright	58.000	76	27Gam Cas	2.3000	30000.	116	22392	No
81	GOM_NL__2PRFIN20060612_102612_000000402048_00294_22392_0728.N1	12-JUN-2006 10:26:12	Bright	39.500	73	57Gam1And	2.2600	13100.	79	22392	No
82	GOM_NL__2PRFIN20060612_102832_000000552048_00294_22392_0729.N1	12-JUN-2006 10:28:32	Twilight	54.500	53	43Bet And	2.0480	3300.0	109	22392	No
83	GOM_NL__2PRFIN20060612_103154_000000472048_00294_22392_0730.N1	12-JUN-2006 10:31:54	Twilight	47.000	50	13Alp Ari	2.0070	4250.0	94	22392	No
84	GOM_NL__2PRFIN20060612_104657_000000522048_00294_22392_0731.N1	12-JUN-2006 10:46:57	Dark	52.000	52	16Bet Cet	2.0370	4500.0	104	22392	No
85	GOM_NL__2PRFIN20060612_105321_000000432048_00294_22392_0732.N1	12-JUN-2006 10:53:21	Dark	43.000	84	Alp Phe	2.3970	4500.0	86	22392	No
86	GOM_NL__2PRFIN20060612_105923_000000532048_00295_22393_0716.N1	12-JUN-2006 10:59:23	Dark	52.500	63	Bet Gru	2.1500	2800.0	105	22393	No
87	GOM_NL__2PRFIN20060612_110125_000000482048_00295_22393_0717.N1	12-JUN-2006 11:01:25	Dark	47.500	31	Alp Gru	1.7340	15200.	95	22393	No
88	GOM_NL__2PRFIN20060612_110534_000000422048_00295_22393_0718.N1	12-JUN-2006 11:05:34	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	22393	No
89	GOM_NL__2PRFIN20060612_111359_000000452048_00295_22393_0719.N1	12-JUN-2006 11:13:59	Twilight	45.000	40	The Sco	1.8590	7100.0	90	22393	No
90	GOM_NL__2PRFIN20060612_111525_000000472048_00295_22393_0720.N1	12-JUN-2006 11:15:25	Twilight	47.000	38	20Eps Sgr	1.8360	11000.	94	22393	No
91	GOM_NL__2PRFIN20060612_111657_000000522048_00295_22393_0721.N1	12-JUN-2006 11:16:57	Twilight	52.000	116	19Del Sgr	2.7000	4100.0	104	22393	No
92	GOM_NL__2PRFIN20060612_112228_000000402048_00295_22393_0722.N1	12-JUN-2006 11:22:28	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	22393	No
93	GOM_NL__2PRFIN20060612_112413_000000382048_00295_22393_0723.N1	12-JUN-2006 11:24:13	Bright	37.500	98	13Zet Oph	2.5710	30000.	75	22393	No
94	GOM_NL__2PRFIN20060612_113343_000000372048_00295_22393_0724.N1	12-JUN-2006 11:33:43	Bright	37.000	127	27Bet Her	2.7810	4700.0	74	22393	No
95	GOM_NL__2PRFIN20060612_113650_000000402048_00295_22393_0725.N1	12-JUN-2006 11:36:50	Bright	40.000	133	40Zet Her	2.8070	6000.0	80	22393	No
96	GOM_NL__2PRFIN20060612_114349_000000412048_00295_22393_0726.N1	12-JUN-2006 11:43:49	Bright	41.000	130	23Bet Dra	2.7990	5800.0	82	22393	No
97	GOM_NL__2PRFIN20060612_120047_000000382048_00295_22393_0727.N1	12-JUN-2006 12:00:47	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	22393	No
98	GOM_NL__2PRFIN20060612_120648_000000402048_00295_22393_0728.N1	12-JUN-2006 12:06:48	Bright	39.500	73	57Gam1And	2.2600	13100.	79	22393	No
99	GOM_NL__2PRFIN20060612_120908_000000552048_00295_22393_0729.N1	12-JUN-2006 12:09:08	Twilight	54.500	53	43Bet And	2.0480	3300.0	109	22393	No
100	GOM_NL__2PRFIN20060612_121229_000000472048_00295_22393_0730.N1	12-JUN-2006 12:12:29	Twilight	46.500	50	13Alp Ari	2.0070	4250.0	93	22393	No
101	GOM_NL__2PRFIN20060612_122734_000000522048_00295_22393_0731.N1	12-JUN-2006 12:27:34	Dark	51.500	52	16Bet Cet	2.0370	4500.0	103	22393	No

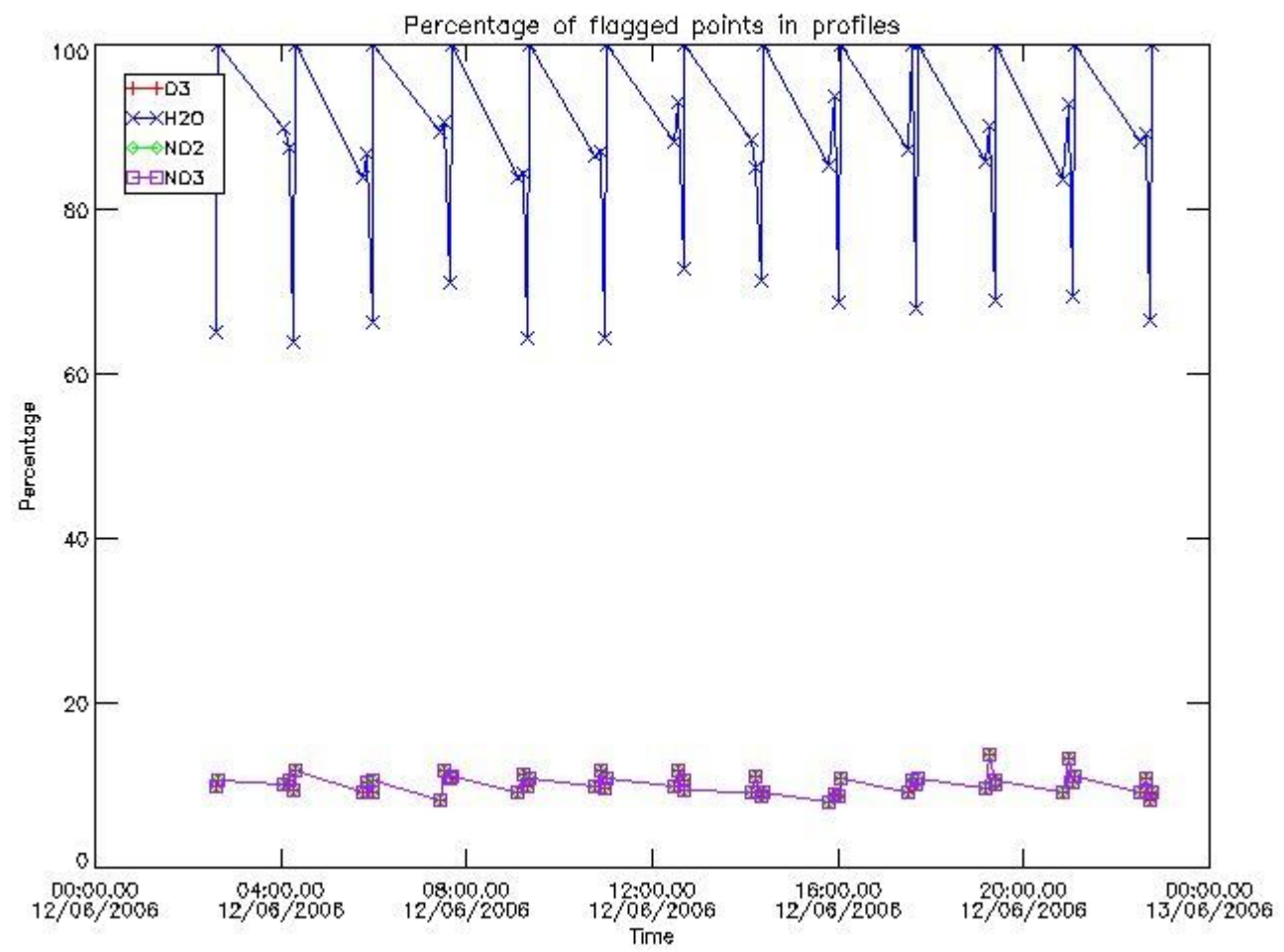
102	GOM_NL__2PRFIN20060612_123357_000000432048_00295_22393_0732.N1	12-JUN-2006 12:33:57	Dark	43.000	84	Alp Phe	2.3970	4500.0	86	22393	No
103	GOM_NL__2PRFIN20060612_123952_000000582048_00296_22394_0716.N1	12-JUN-2006 12:39:52	Dark	57.500	63	Bet Gru	2.1500	2800.0	115	22394	No
104	GOM_NL__2PRFIN20060612_124154_000000552048_00296_22394_0717.N1	12-JUN-2006 12:41:54	Dark	54.500	31	Alp Gru	1.7340	15200.	109	22394	No
105	GOM_NL__2PRFIN20060612_124604_000000472048_00296_22394_0718.N1	12-JUN-2006 12:46:04	Straylight	47.000	45	Alp Pav	1.9400	26000.	94	22394	No
106	GOM_NL__2PRFIN20060612_125428_000000512048_00296_22394_0719.N1	12-JUN-2006 12:54:28	Twi_and_stray	51.000	40	The Sco	1.8590	7100.0	102	22394	No
107	GOM_NL__2PRFIN20060612_125612_000000522048_00296_22394_0720.N1	12-JUN-2006 12:56:12	Twi_and_stray	51.500	25	35Lam Sco	1.6200	28000.	103	22394	No
108	GOM_NL__2PRFIN20060612_130257_000000462048_00296_22394_0721.N1	12-JUN-2006 13:02:57	Bright	46.000	86	35Eta Oph	2.4300	10200.	92	22394	No
109	GOM_NL__2PRFIN20060612_130442_000000432048_00296_22394_0722.N1	12-JUN-2006 13:04:42	Bright	43.000	98	13Zet Oph	2.5710	30000.	86	22394	No
110	GOM_NL__2PRFIN20060612_131412_000000622048_00296_22394_0723.N1	12-JUN-2006 13:14:12	Bright	62.000	127	27Bet Her	2.7810	4700.0	124	22394	No
111	GOM_NL__2PRFIN20060612_131718_000000642048_00296_22394_0724.N1	12-JUN-2006 13:17:18	Bright	64.000	133	40Zet Her	2.8070	6000.0	128	22394	No
112	GOM_NL__2PRFIN20060612_132418_000000492048_00296_22394_0725.N1	12-JUN-2006 13:24:18	Bright	48.500	130	23Bet Dra	2.7990	5800.0	97	22394	No
113	GOM_NL__2PRFIN20060612_134115_000000552048_00296_22394_0726.N1	12-JUN-2006 13:41:15	Bright	55.000	76	27Gam Cas	2.3000	30000.	110	22394	No
114	GOM_NL__2PRFIN20060612_134717_000000462048_00296_22394_0727.N1	12-JUN-2006 13:47:17	Bright	46.000	73	57Gam1And	2.2600	13100.	92	22394	No
115	GOM_NL__2PRFIN20060612_134936_000000672048_00296_22394_0728.N1	12-JUN-2006 13:49:36	Twi_and_stray	66.500	53	43Bet And	2.0480	3300.0	133	22394	No
116	GOM_NL__2PRFIN20060612_135259_000000542048_00296_22394_0729.N1	12-JUN-2006 13:52:59	Twilight	53.500	50	13Alp Ari	2.0070	4250.0	107	22394	No
117	GOM_NL__2PRFIN20060612_140803_000000622048_00296_22394_0730.N1	12-JUN-2006 14:08:03	Dark	61.500	52	16Bet Cet	2.0370	4500.0	123	22394	No
118	GOM_NL__2PRFIN20060612_141427_000000512048_00296_22394_0731.N1	12-JUN-2006 14:14:27	Dark	50.500	84	Alp Phe	2.3970	4500.0	101	22394	No
119	GOM_NL__2PRFIN20060612_142029_000000582048_00297_22395_0716.N1	12-JUN-2006 14:20:29	Dark	58.000	63	Bet Gru	2.1500	2800.0	116	22395	No
120	GOM_NL__2PRFIN20060612_142231_000000562048_00297_22395_0717.N1	12-JUN-2006 14:22:31	Dark	55.500	31	Alp Gru	1.7340	15200.	111	22395	No
121	GOM_NL__2PRFIN20060612_142640_000000502048_00297_22395_0718.N1	12-JUN-2006 14:26:40	Straylight	49.500	45	Alp Pav	1.9400	26000.	99	22395	No
122	GOM_NL__2PRFIN20060612_143505_000000532048_00297_22395_0719.N1	12-JUN-2006 14:35:05	Twi_and_stray	52.500	40	The Sco	1.8590	7100.0	105	22395	No
123	GOM_NL__2PRFIN20060612_143648_000000492048_00297_22395_0720.N1	12-JUN-2006 14:36:48	Twi_and_stray	49.000	25	35Lam Sco	1.6200	28000.	98	22395	No
124	GOM_NL__2PRFIN20060612_144333_000000482048_00297_22395_0721.N1	12-JUN-2006 14:43:33	Bright	48.000	86	35Eta Oph	2.4300	10200.	96	22395	No
125	GOM_NL__2PRFIN20060612_144518_000000442048_00297_22395_0722.N1	12-JUN-2006 14:45:18	Bright	43.500	98	13Zet Oph	2.5710	30000.	87	22395	No
126	GOM_NL__2PRFIN20060612_145447_000000452048_00297_22395_0723.N1	12-JUN-2006 14:54:47	Bright	45.000	127	27Bet Her	2.7810	4700.0	90	22395	No
127	GOM_NL__2PRFIN20060612_145754_000000462048_00297_22395_0724.N1	12-JUN-2006 14:57:54	Bright	46.000	133	40Zet Her	2.8070	6000.0	92	22395	No
128	GOM_NL__2PRFIN20060612_150453_000000442048_00297_22395_0725.N1	12-JUN-2006 15:04:53	Bright	43.500	130	23Bet Dra	2.7990	5800.0	87	22395	No
129	GOM_NL__2PRFIN20060612_152151_000000662048_00297_22395_0726.N1	12-JUN-2006 15:21:51	Bright	66.000	76	27Gam Cas	2.3000	30000.	132	22395	No
130	GOM_NL__2PRFIN20060612_152753_000000472048_00297_22395_0727.N1	12-JUN-2006 15:27:53	Bright	46.500	73	57Gam1And	2.2600	13100.	93	22395	No
131	GOM_NL__2PRFIN20060612_153012_000000592048_00297_22395_0728.N1	12-JUN-2006 15:30:12	Twi_and_stray	58.500	53	43Bet And	2.0480	3300.0	117	22395	No
132	GOM_NL__2PRFIN20060612_153335_000000512048_00297_22395_0729.N1	12-JUN-2006 15:33:35	Twilight	50.500	50	13Alp Ari	2.0070	4250.0	101	22395	No
133	GOM_NL__2PRFIN20060612_154839_000000652048_00297_22395_0730.N1	12-JUN-2006 15:48:39	Dark	65.000	52	16Bet Cet	2.0370	4500.0	130	22395	No
134	GOM_NL__2PRFIN20060612_155504_000000572048_00297_22395_0731.N1	12-JUN-2006 15:55:04	Dark	56.500	84	Alp Phe	2.3970	4500.0	113	22395	No
135	GOM_NL__2PRFIN20060612_160114_000000602048_00298_22396_0716.N1	12-JUN-2006 16:01:14	Dark	59.500	63	Bet Gru	2.1500	2800.0	119	22396	No
136	GOM_NL__2PRFIN20060612_160316_000000472048_00298_22396_0717.N1	12-JUN-2006 16:03:16	Dark	47.000	31	Alp Gru	1.7340	15200.	94	22396	No
137	GOM_NL__2PRFIN20060612_160724_000000422048_00298_22396_0718.N1	12-JUN-2006 16:07:24	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	22396	No
138	GOM_NL__2PRFIN20060612_161548_000000432048_00298_22396_0719.N1	12-JUN-2006 16:15:48	Twi_and_stray	43.000	40	The Sco	1.8590	7100.0	86	22396	No
139	GOM_NL__2PRFIN20060612_161732_000000452048_00298_22396_0720.N1	12-JUN-2006 16:17:32	Twi_and_stray	45.000	25	35Lam Sco	1.6200	28000.	90	22396	No
140	GOM_NL__2PRFIN20060612_161854_000000492048_00298_22396_0721.N1	12-JUN-2006 16:18:54	Twi_and_stray	48.500	167	10Gam2Sgr	2.9840	4500.0	97	22396	No
141	GOM_NL__2PRFIN20060612_162416_000000402048_00298_22396_0722.N1	12-JUN-2006 16:24:16	Bright	40.000	86	35Eta Oph	2.4300	10200.	80	22396	No
142	GOM_NL__2PRFIN20060612_162601_000000382048_00298_22396_0723.N1	12-JUN-2006 16:26:01	Bright	37.500	98	13Zet Oph	2.5710	30000.	75	22396	No
143	GOM_NL__2PRFIN20060612_163530_000000402048_00298_22396_0724.N1	12-JUN-2006 16:35:30	Bright	39.500	127	27Bet Her	2.7810	4700.0	79	22396	No
144	GOM_NL__2PRFIN20060612_163837_000000382048_00298_22396_0725.N1	12-JUN-2006 16:38:37	Bright	38.000	133	40Zet Her	2.8070	6000.0	76	22396	No
145	GOM_NL__2PRFIN20060612_164536_000000402048_00298_22396_0726.N1	12-JUN-2006 16:45:36	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	22396	No
146	GOM_NL__2PRFIN20060612_170235_000000582048_00298_22396_0727.N1	12-JUN-2006 17:02:35	Bright	58.000	76	27Gam Cas	2.3000	30000.	116	22396	No
147	GOM_NL__2PRFIN20060612_170836_000000562048_00298_22396_0728.N1	12-JUN-2006 17:08:36	Bright	56.000	73	57Gam1And	2.2600	13100.	112	22396	No
148	GOM_NL__2PRFIN20060612_171056_000000522048_00298_22396_0729.N1	12-JUN-2006 17:10:56	Twi_and_stray	51.500	53	43Bet And	2.0480	3300.0	103	22396	No
149	GOM_NL__2PRFIN20060612_171418_000000472048_00298_22396_0730.N1	12-JUN-2006 17:14:18	Twilight	47.000	50	13Alp Ari	2.0070	4250.0	94	22396	No
150	GOM_NL__2PRFIN20060612_172924_000000552048_00298_22396_0731.N1	12-JUN-2006 17:29:24	Dark	55.000	52	16Bet Cet	2.0370	4500.0	110	22396	No
151	GOM_NL__2PRFIN20060612_173547_000000492048_00298_22396_0732.N1	12-JUN-2006 17:35:47	Dark	48.500	84	Alp Phe	2.3970	4500.0	97	22396	No
152	GOM_NL__2PRFIN20060612_174151_000000512048_00299_22397_0716.N1	12-JUN-2006 17:41:51	Dark	50.500	63	Bet Gru	2.1500	2800.0	101	22397	No
153	GOM_NL__2PRFIN20060612_174353_000000472048_00299_22397_0717.N1	12-JUN-2006 17:43:53	Dark	47.000	31	Alp Gru	1.7340	15200.	94	22397	No
154	GOM_NL__2PRFIN20060612_174801_000000442048_00299_22397_0718.N1	12-JUN-2006 17:48:01	Straylight	44.000	45	Alp Pav	1.9400	26000.	88	22397	No
155	GOM_NL__2PRFIN20060612_175624_000000462048_00299_22397_0719.N1	12-JUN-2006 17:56:24	Twi_and_stray	45.500	40	The Sco	1.8590	7100.0	91	22397	No
156	GOM_NL__2PRFIN20060612_175808_000000402048_00299_22397_0720.N1	12-JUN-2006 17:58:08	Twi_and_stray	40.000	25	35Lam Sco	1.6200	28000.	80	22397	No
157	GOM_NL__2PRFIN20060612_175930_000000462048_00299_22397_0721.N1	12-JUN-2006 17:59:30	Twi_and_stray	46.000	167	10Gam2Sgr	2.9840	4500.0	92	22397	No
158	GOM_NL__2PRFIN20060612_180452_000000412048_00299_22397_0722.N1	12-JUN-2006 18:04:52	Bright	40.500	86	35Eta Oph	2.4300	10200.	81	22397	No
159	GOM_NL__2PRFIN20060612_180637_000000372048_00299_22397_0723.N1	12-JUN-2006 18:06:37	Bright	36.500	98	13Zet Oph	2.5710	30000.	73	22397	No
160	GOM_NL__2PRFIN20060612_181606_000000372048_00299_22397_0724.N1	12-JUN-2006 18:16:06	Bright	37.000	127	27Bet Her	2.7810	4700.0	74	22397	No

161	GOM_NL__2PRFIN20060612_181913_000000402048_00299_22397_0725.N1	12-JUN-2006 18:19:13	Bright	39.500	133	40Zet Her	2.8070	6000.0	79	22397	No
162	GOM_NL__2PRFIN20060612_182611_000000422048_00299_22397_0726.N1	12-JUN-2006 18:26:11	Bright	41.500	130	23Bet Dra	2.7990	5800.0	83	22397	No
163	GOM_NL__2PRFIN20060612_184310_000000372048_00299_22397_0727.N1	12-JUN-2006 18:43:10	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	22397	No
164	GOM_NL__2PRFIN20060612_184912_000000382048_00299_22397_0728.N1	12-JUN-2006 18:49:12	Bright	37.500	73	57Gam1And	2.2600	13100.	75	22397	No
165	GOM_NL__2PRFIN20060612_185132_000000512048_00299_22397_0729.N1	12-JUN-2006 18:51:32	Twilight	50.500	53	43Bet And	2.0480	3300.0	101	22397	No
166	GOM_NL__2PRFIN20060612_185454_000000512048_00299_22397_0730.N1	12-JUN-2006 18:54:54	Twilight	50.500	50	13Alp Ari	2.0070	4250.0	101	22397	No
167	GOM_NL__2PRFIN20060612_191001_000000542048_00299_22397_0731.N1	12-JUN-2006 19:10:01	Dark	53.500	52	16Bet Cet	2.0370	4500.0	107	22397	No
168	GOM_NL__2PRFIN20060612_191624_000000412048_00299_22397_0732.N1	12-JUN-2006 19:16:24	Dark	41.000	84	Alp Phe	2.3970	4500.0	82	22397	No
169	GOM_NL__2PRFIN20060612_192228_000000512048_00300_22398_0716.N1	12-JUN-2006 19:22:28	Dark	50.500	63	Bet Gru	2.1500	2800.0	101	22398	No
170	GOM_NL__2PRFIN20060612_192430_000000482048_00300_22398_0717.N1	12-JUN-2006 19:24:30	Dark	48.000	31	Alp Gru	1.7340	15200.	96	22398	No
171	GOM_NL__2PRFIN20060612_192837_000000402048_00300_22398_0718.N1	12-JUN-2006 19:28:37	Straylight	40.000	45	Alp Pav	1.9400	26000.	80	22398	No
172	GOM_NL__2PRFIN20060612_193700_000000442048_00300_22398_0719.N1	12-JUN-2006 19:37:00	Twilight	44.000	40	The Sco	1.8590	7100.0	88	22398	No
173	GOM_NL__2PRFIN20060612_193844_000000452048_00300_22398_0720.N1	12-JUN-2006 19:38:44	Twilight	44.500	25	35Lam Sco	1.6200	28000.	89	22398	No
174	GOM_NL__2PRFIN20060612_194007_000000482048_00300_22398_0721.N1	12-JUN-2006 19:40:07	Twilight	47.500	167	10Gam2Sgr	2.9840	4500.0	95	22398	No
175	GOM_NL__2PRFIN20060612_194528_000000392048_00300_22398_0722.N1	12-JUN-2006 19:45:28	Bright	39.000	86	35Eta Oph	2.4300	10200.	78	22398	No
176	GOM_NL__2PRFIN20060612_194713_000000362048_00300_22398_0723.N1	12-JUN-2006 19:47:13	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	22398	No
177	GOM_NL__2PRFIN20060612_195642_000000392048_00300_22398_0724.N1	12-JUN-2006 19:56:42	Bright	38.500	127	27Bet Her	2.7810	4700.0	77	22398	No
178	GOM_NL__2PRFIN20060612_195948_000000372048_00300_22398_0725.N1	12-JUN-2006 19:59:48	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	22398	No
179	GOM_NL__2PRFIN20060612_200647_000000412048_00300_22398_0726.N1	12-JUN-2006 20:06:47	Bright	40.500	130	23Bet Dra	2.7990	5800.0	81	22398	No
180	GOM_NL__2PRFIN20060612_202346_000000582048_00300_22398_0727.N1	12-JUN-2006 20:23:46	Bright	58.000	76	27Gam Cas	2.3000	30000.	116	22398	No
181	GOM_NL__2PRFIN20060612_202948_000000402048_00300_22398_0728.N1	12-JUN-2006 20:29:48	Bright	39.500	73	57Gam1And	2.2600	13100.	79	22398	No
182	GOM_NL__2PRFIN20060612_203208_000000552048_00300_22398_0729.N1	12-JUN-2006 20:32:08	Twilight	54.500	53	43Bet And	2.0480	3300.0	109	22398	No
183	GOM_NL__2PRFIN20060612_203530_000000472048_00300_22398_0730.N1	12-JUN-2006 20:35:30	Twilight	47.000	50	13Alp Ari	2.0070	4250.0	94	22398	No
184	GOM_NL__2PRFIN20060612_205038_000000552048_00300_22398_0731.N1	12-JUN-2006 20:50:38	Dark	55.000	52	16Bet Cet	2.0370	4500.0	110	22398	No
185	GOM_NL__2PRFIN20060612_205701_000000432048_00300_22398_0732.N1	12-JUN-2006 20:57:01	Dark	42.500	84	Alp Phe	2.3970	4500.0	85	22398	No
186	GOM_NL__2PRFIN20060612_210305_000000502048_00301_22399_0736.N1	12-JUN-2006 21:03:05	Dark	49.500	63	Bet Gru	2.1500	2800.0	99	22399	No
187	GOM_NL__2PRFIN20060612_210507_000000462048_00301_22399_0737.N1	12-JUN-2006 21:05:07	Dark	46.000	31	Alp Gru	1.7340	15200.	92	22399	No
188	GOM_NL__2PRFIN20060612_210914_000000432048_00301_22399_0738.N1	12-JUN-2006 21:09:14	Straylight	43.000	45	Alp Pav	1.9400	26000.	86	22399	No
189	GOM_NL__2PRFIN20060612_211737_000000422048_00301_22399_0739.N1	12-JUN-2006 21:17:37	Twilight	41.500	40	The Sco	1.8590	7100.0	83	22399	No
190	GOM_NL__2PRFIN20060612_211920_000000422048_00301_22399_0740.N1	12-JUN-2006 21:19:20	Twilight	42.000	25	35Lam Sco	1.6200	28000.	84	22399	No
191	GOM_NL__2PRFIN20060612_212043_000000492048_00301_22399_0741.N1	12-JUN-2006 21:20:43	Twilight	48.500	167	10Gam2Sgr	2.9840	4500.0	97	22399	No
192	GOM_NL__2PRFIN20060612_212604_000000402048_00301_22399_0742.N1	12-JUN-2006 21:26:04	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	22399	No
193	GOM_NL__2PRFIN20060612_212749_000000362048_00301_22399_0743.N1	12-JUN-2006 21:27:49	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	22399	No
194	GOM_NL__2PRFIN20060612_213718_000000392048_00301_22399_0744.N1	12-JUN-2006 21:37:18	Bright	39.000	127	27Bet Her	2.7810	4700.0	78	22399	No
195	GOM_NL__2PRFIN20060612_214024_000000382048_00301_22399_0745.N1	12-JUN-2006 21:40:24	Bright	37.500	133	40Zet Her	2.8070	6000.0	75	22399	No
196	GOM_NL__2PRFIN20060612_214722_000000412048_00301_22399_0746.N1	12-JUN-2006 21:47:22	Bright	40.500	130	23Bet Dra	2.7990	5800.0	81	22399	No
197	GOM_NL__2PRFIN20060612_220422_000000372048_00301_22399_0747.N1	12-JUN-2006 22:04:22	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	22399	No
198	GOM_NL__2PRFIN20060612_221024_000000392048_00301_22399_0748.N1	12-JUN-2006 22:10:24	Bright	39.000	73	57Gam1And	2.2600	13100.	78	22399	No
199	GOM_NL__2PRFIN20060612_221244_000000542048_00301_22399_0749.N1	12-JUN-2006 22:12:44	Twilight	53.500	53	43Bet And	2.0480	3300.0	107	22399	No
200	GOM_NL__2PRFIN20060612_221606_000000472048_00301_22399_0750.N1	12-JUN-2006 22:16:06	Twilight	47.000	50	13Alp Ari	2.0070	4250.0	94	22399	No
201	GOM_NL__2PRFIN20060612_223115_000000562048_00301_22399_0751.N1	12-JUN-2006 22:31:15	Dark	56.000	52	16Bet Cet	2.0370	4500.0	112	22399	No
202	GOM_NL__2PRFIN20060612_223737_000000472048_00301_22399_0752.N1	12-JUN-2006 22:37:37	Dark	47.000	84	Alp Phe	2.3970	4500.0	94	22399	No
203	GOM_NL__2PRFIN20060612_224342_000000632048_00302_22400_0736.N1	12-JUN-2006 22:43:42	Dark	63.000	63	Bet Gru	2.1500	2800.0	126	22400	No
204	GOM_NL__2PRFIN20060612_224544_000000562048_00302_22400_0737.N1	12-JUN-2006 22:45:44	Dark	55.500	31	Alp Gru	1.7340	15200.	111	22400	No
205	GOM_NL__2PRFIN20060612_224950_000000422048_00302_22400_0738.N1	12-JUN-2006 22:49:50	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	22400	No
206	GOM_NL__2PRFIN20060612_225813_000000442048_00302_22400_0739.N1	12-JUN-2006 22:58:13	Twilight	44.000	40	The Sco	1.8590	7100.0	88	22400	No
207	GOM_NL__2PRFIN20060612_225957_000000432048_00302_22400_0740.N1	12-JUN-2006 22:59:57	Twilight	43.000	25	35Lam Sco	1.6200	28000.	86	22400	No
208	GOM_NL__2PRFIN20060612_230119_000000482048_00302_22400_0741.N1	12-JUN-2006 23:01:19	Twilight	47.500	167	10Gam2Sgr	2.9840	4500.0	95	22400	No
209	GOM_NL__2PRFIN20060612_230640_000000402048_00302_22400_0742.N1	12-JUN-2006 23:06:40	Bright	40.000	86	35Eta Oph	2.4300	10200.	80	22400	No
210	GOM_NL__2PRFIN20060612_230825_000000372048_00302_22400_0743.N1	12-JUN-2006 23:08:25	Bright	37.000	98	13Zet Oph	2.5710	30000.	74	22400	No
211	GOM_NL__2PRFIN20060612_231753_000000362048_00302_22400_0744.N1	12-JUN-2006 23:17:53	Bright	36.000	127	27Bet Her	2.7810	4700.0	72	22400	No
212	GOM_NL__2PRFIN20060612_232100_000000392048_00302_22400_0745.N1	12-JUN-2006 23:21:00	Bright	38.500	133	40Zet Her	2.8070	6000.0	77	22400	No
213	GOM_NL__2PRFIN20060612_232758_000000412048_00302_22400_0746.N1	12-JUN-2006 23:27:58	Bright	40.500	130	23Bet Dra	2.7990	5800.0	81	22400	No
214	GOM_NL__2PRFIN20060612_234444_000000542048_00302_22400_0747.N1	12-JUN-2006 23:44:44	Bright	54.000	74	11Bet Cas	2.2680	6600.0	108	22400	No
215	GOM_NL__2PRFIN20060612_235100_000000402048_00302_22400_0748.N1	12-JUN-2006 23:51:00	Bright	39.500	73	57Gam1And	2.2600	13100.	79	22400	No
216	GOM_NL__2PRFIN20060612_235312_000000362048_00302_22400_0749.N1	12-JUN-2006 23:53:12	Bright	36.000	173	4Bet Tri	3.0040	8900.0	72	22400	No
217	GOM_NL__2PRFIN20060612_235642_000000482048_00302_22400_0750.N1	12-JUN-2006 23:56:42	Twilight	47.500	50	13Alp Ari	2.0070	4250.0	95	22400	No

3. Quality information per product

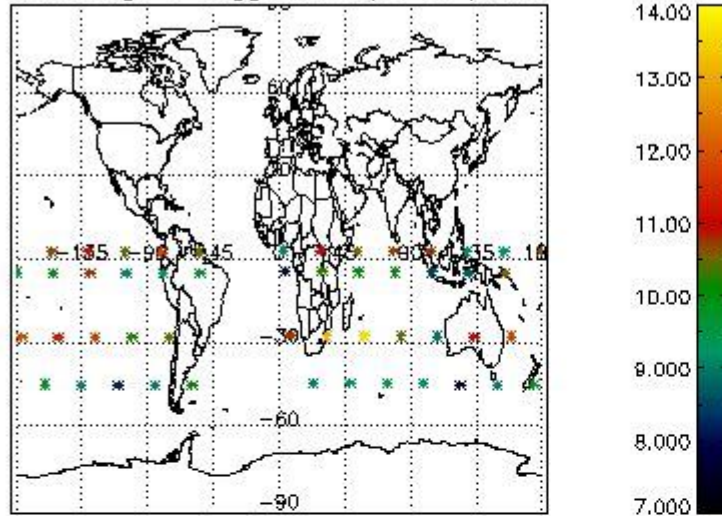
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

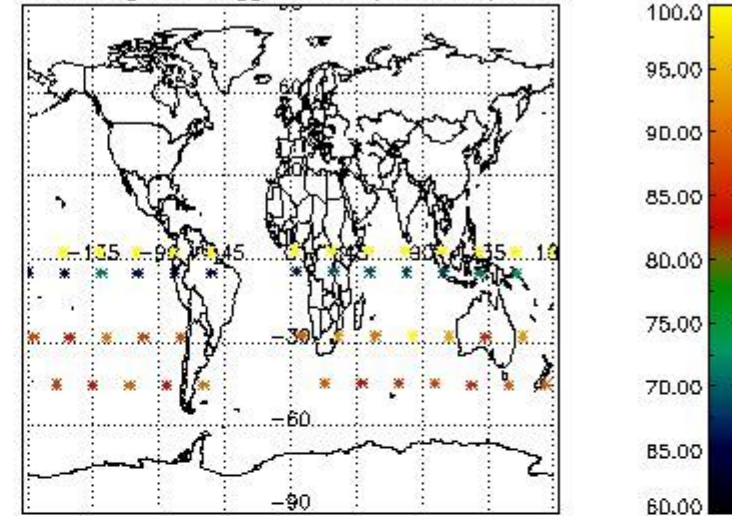


3.2 Plot quality information per product (world map)

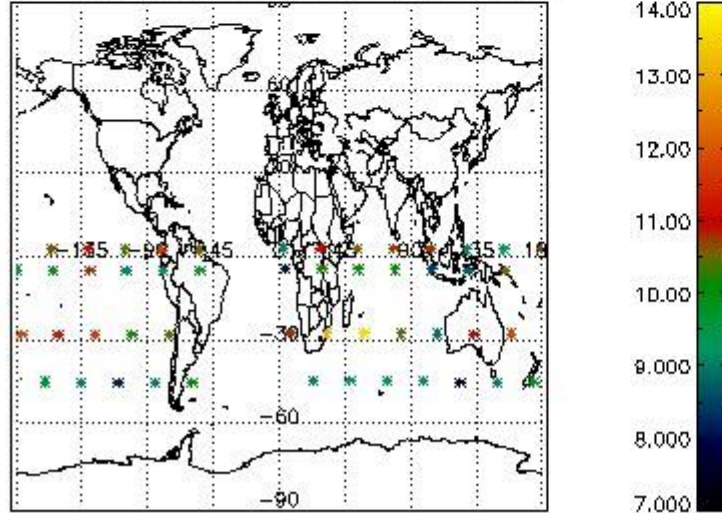
Percentage of flagged data per O3 profile



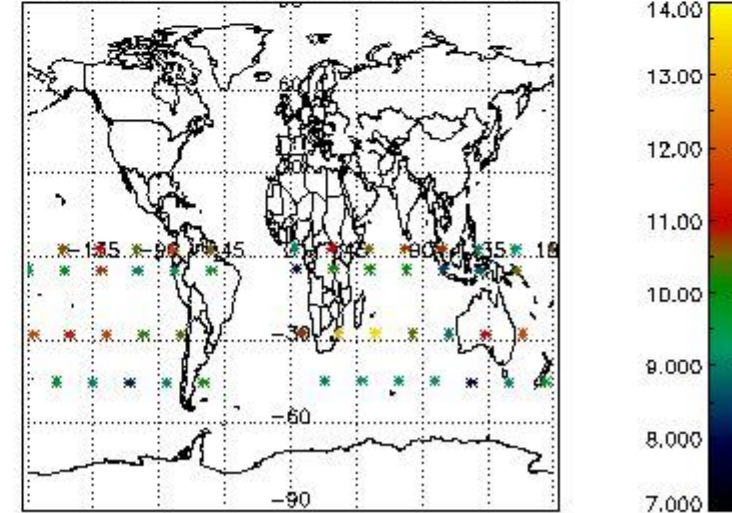
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

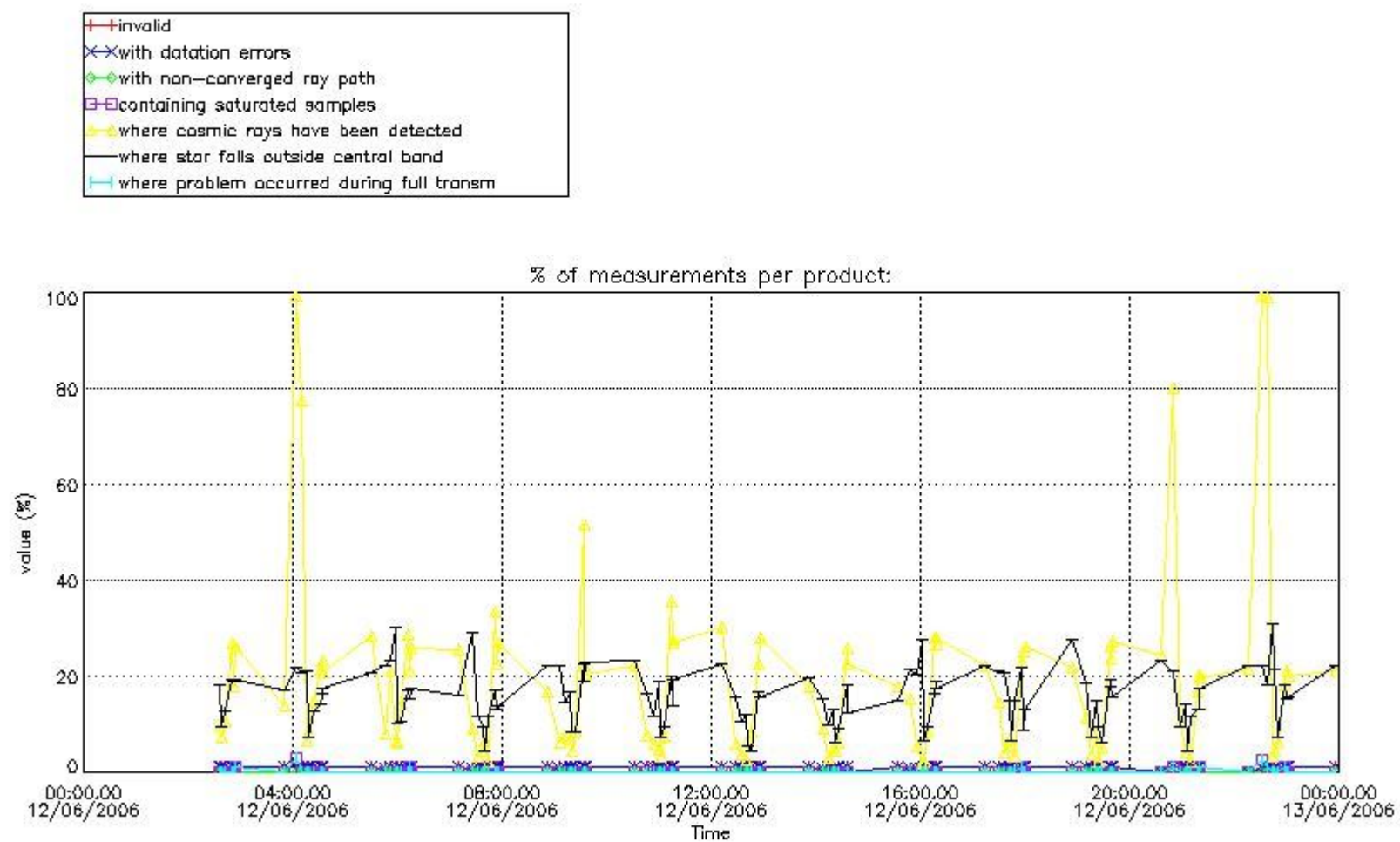


4. Level 1 quality information per product

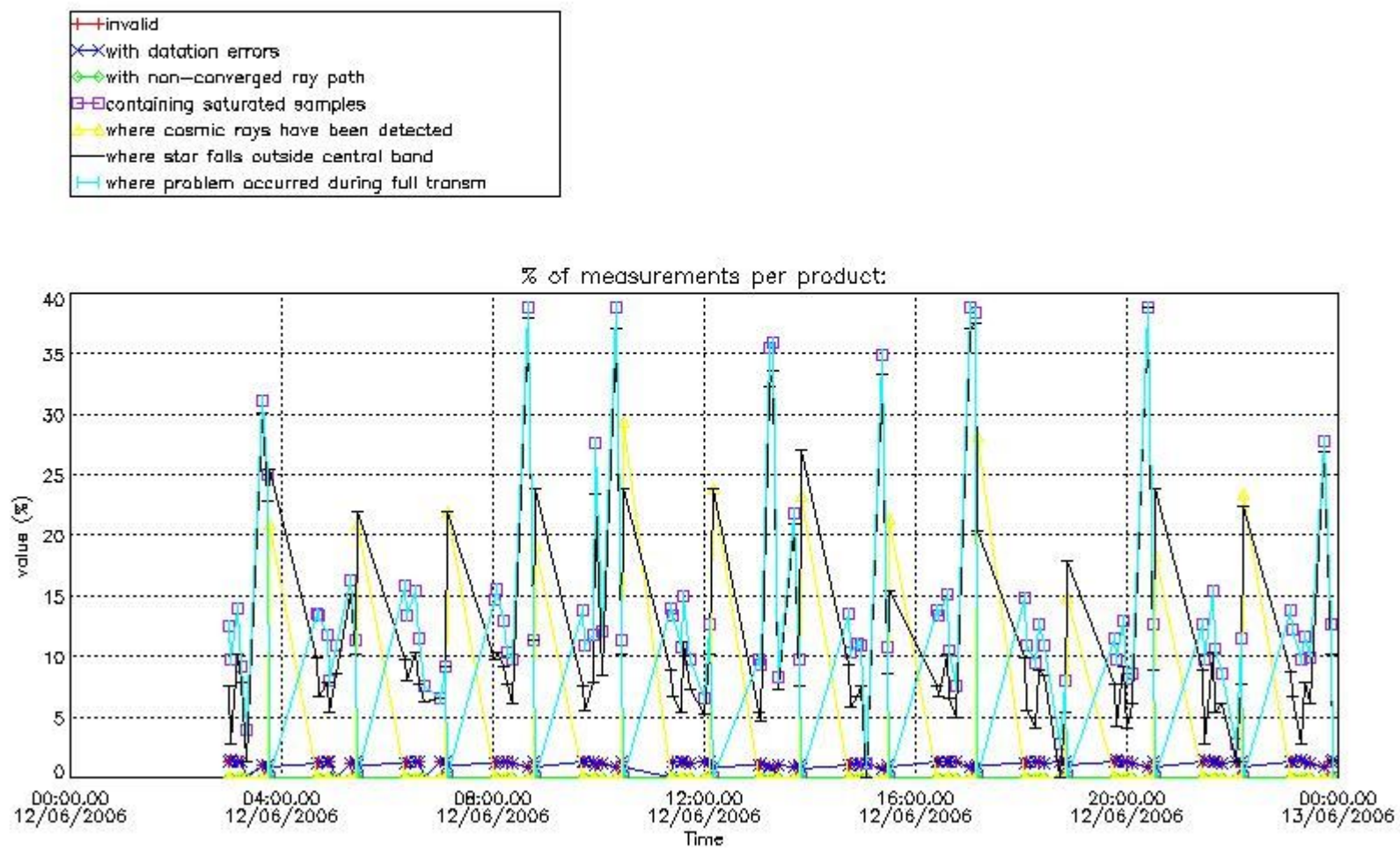
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



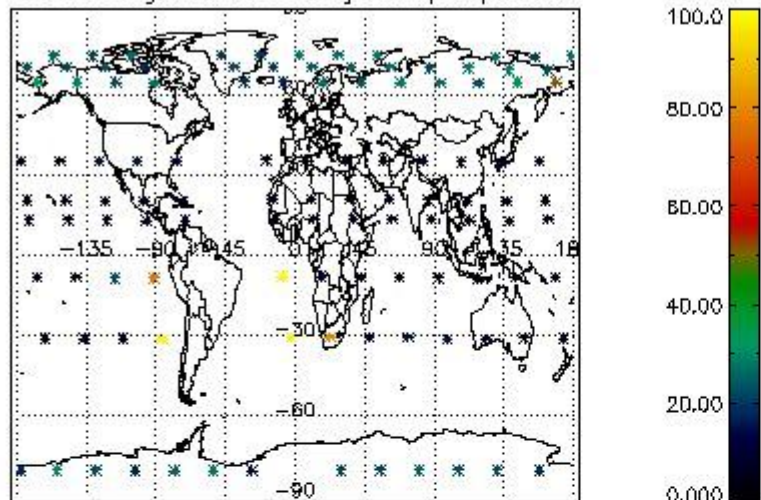
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



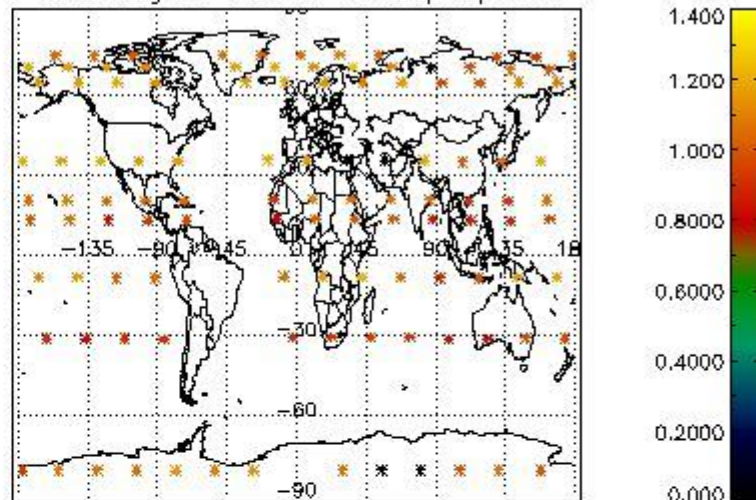
4.2 Plot quality information per product coming from level 1b processing (world map)

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

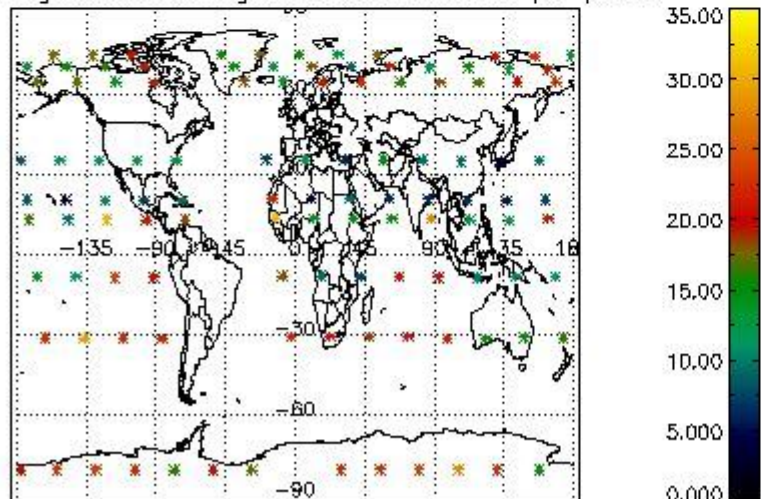
Percentage of cosmic ray hits per profile



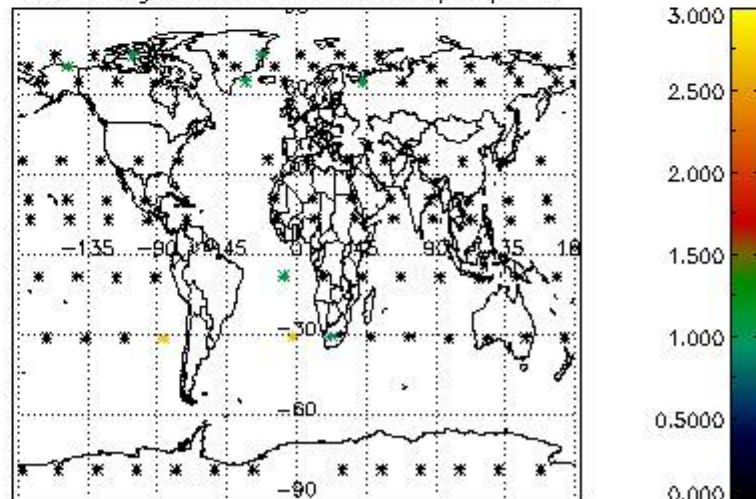
Percentage of datation errors per profile



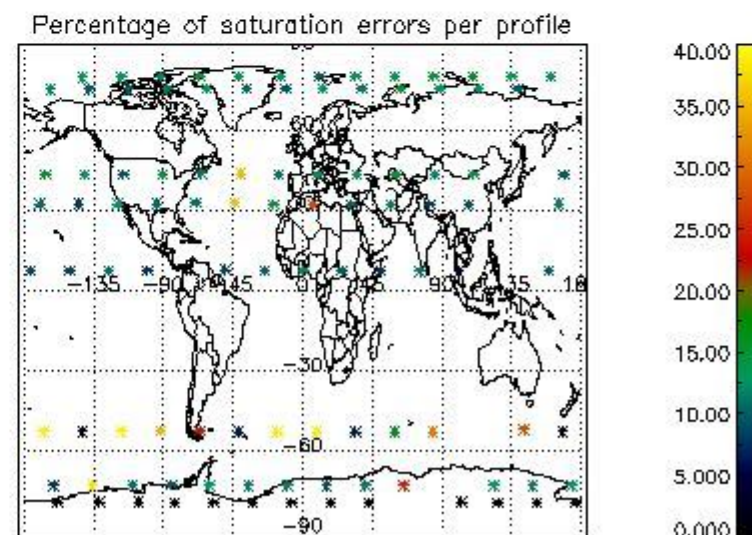
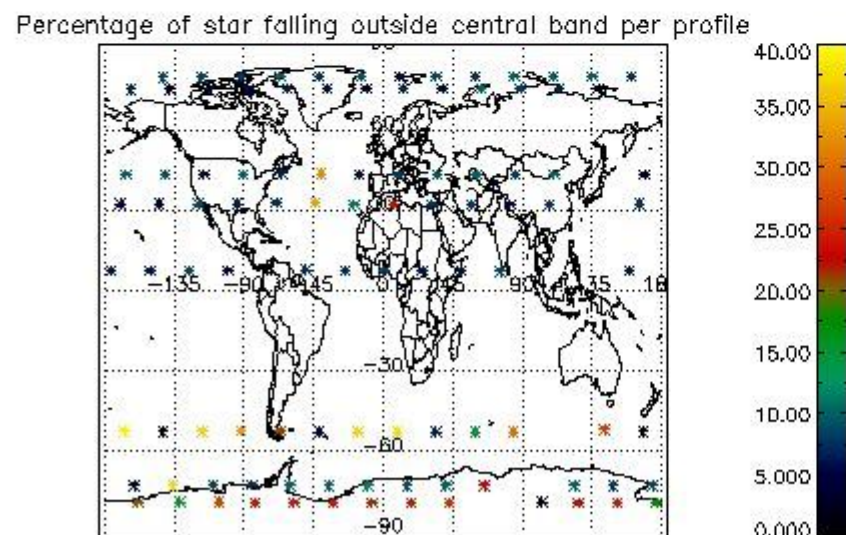
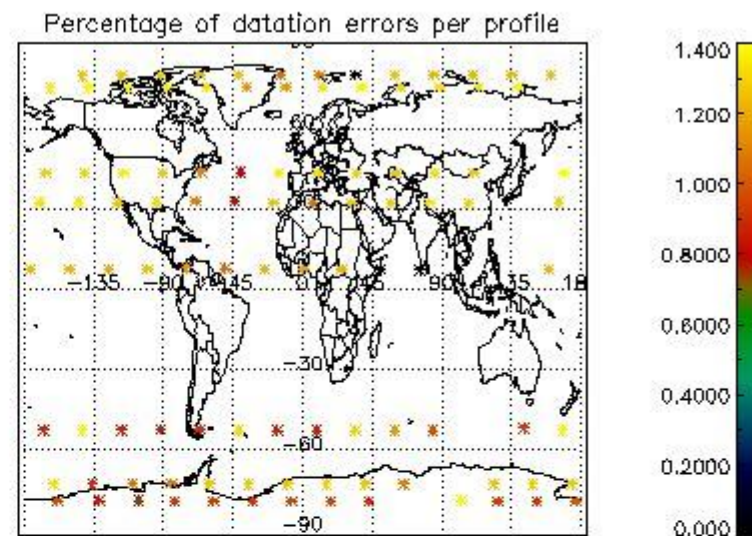
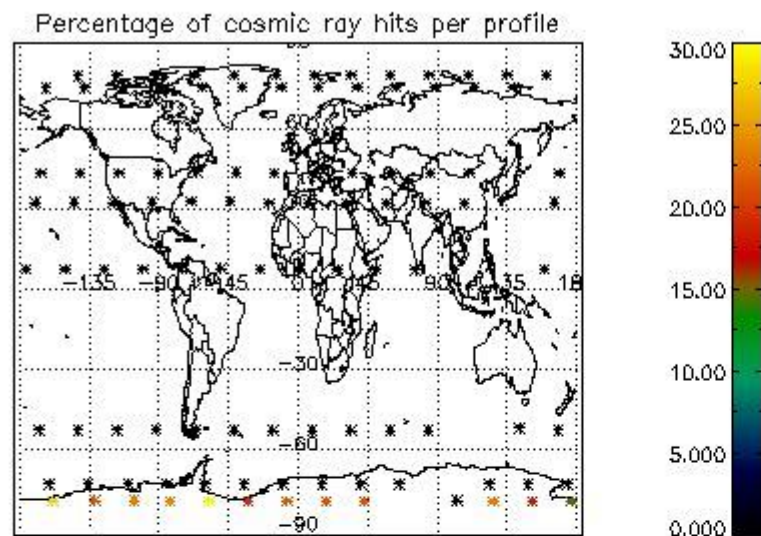
Percentage of star falling outside central band per profile



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

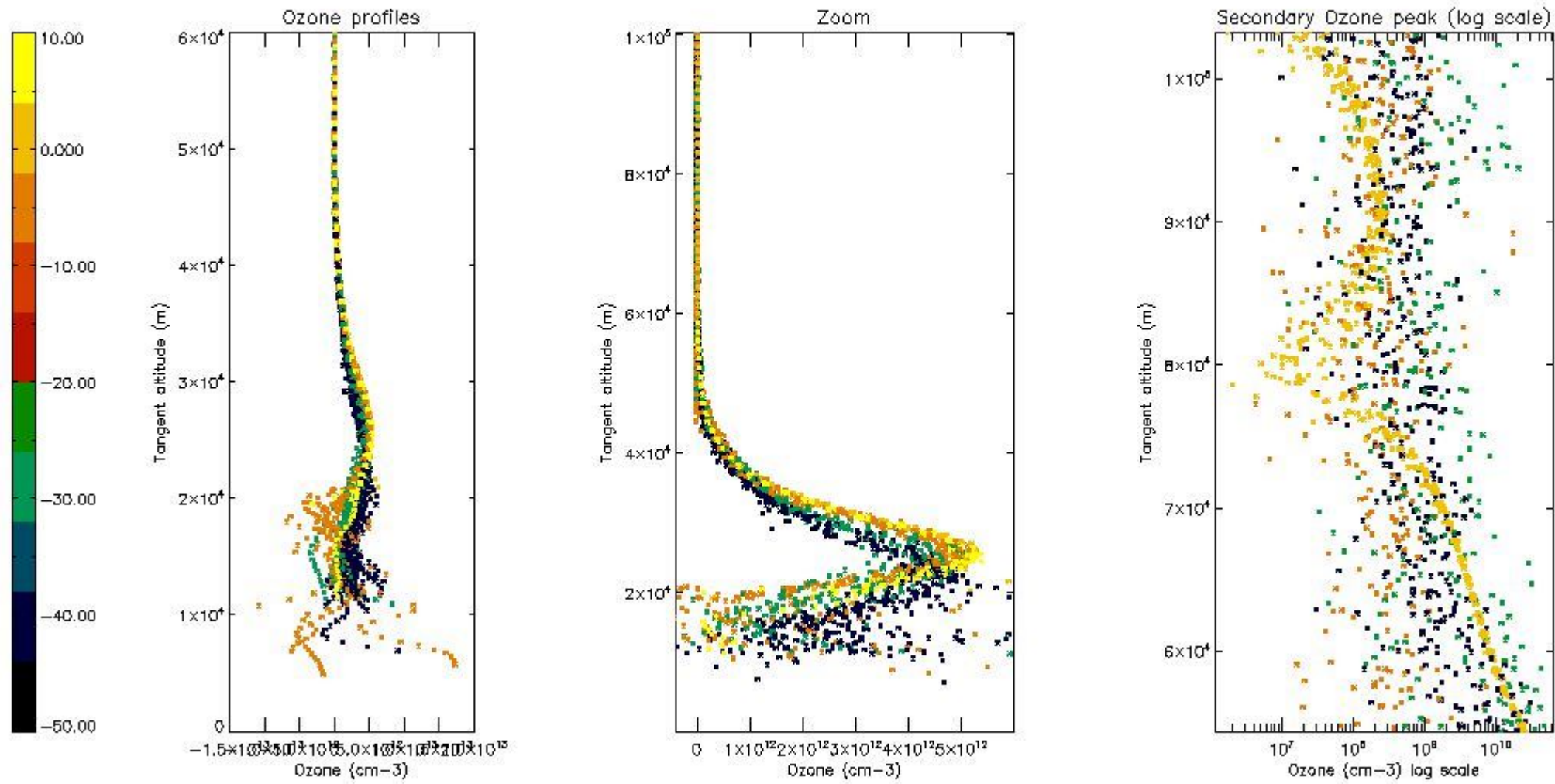
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	27
STD < 20	10

STD < 10	7
STD < 5	4

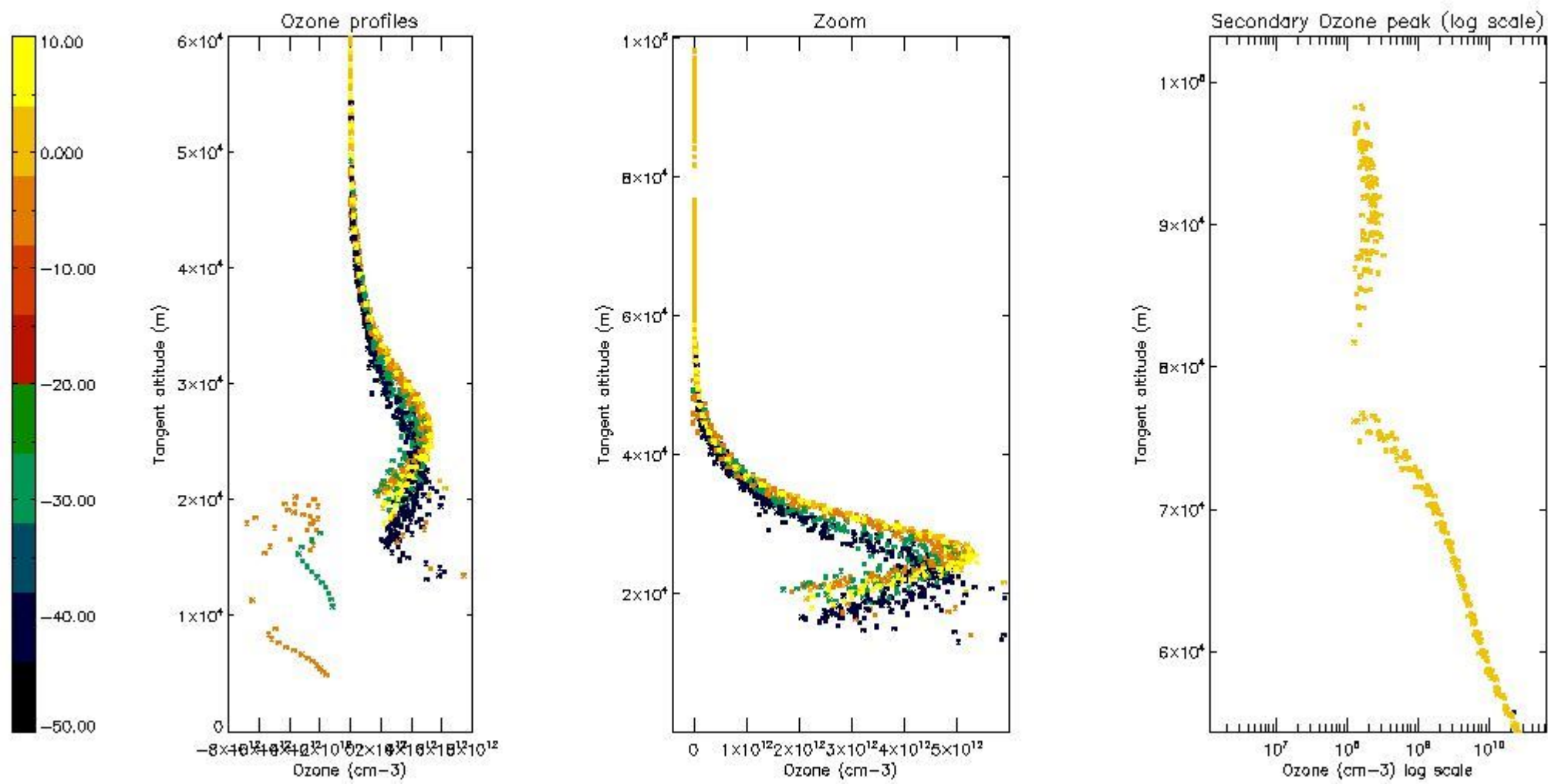
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



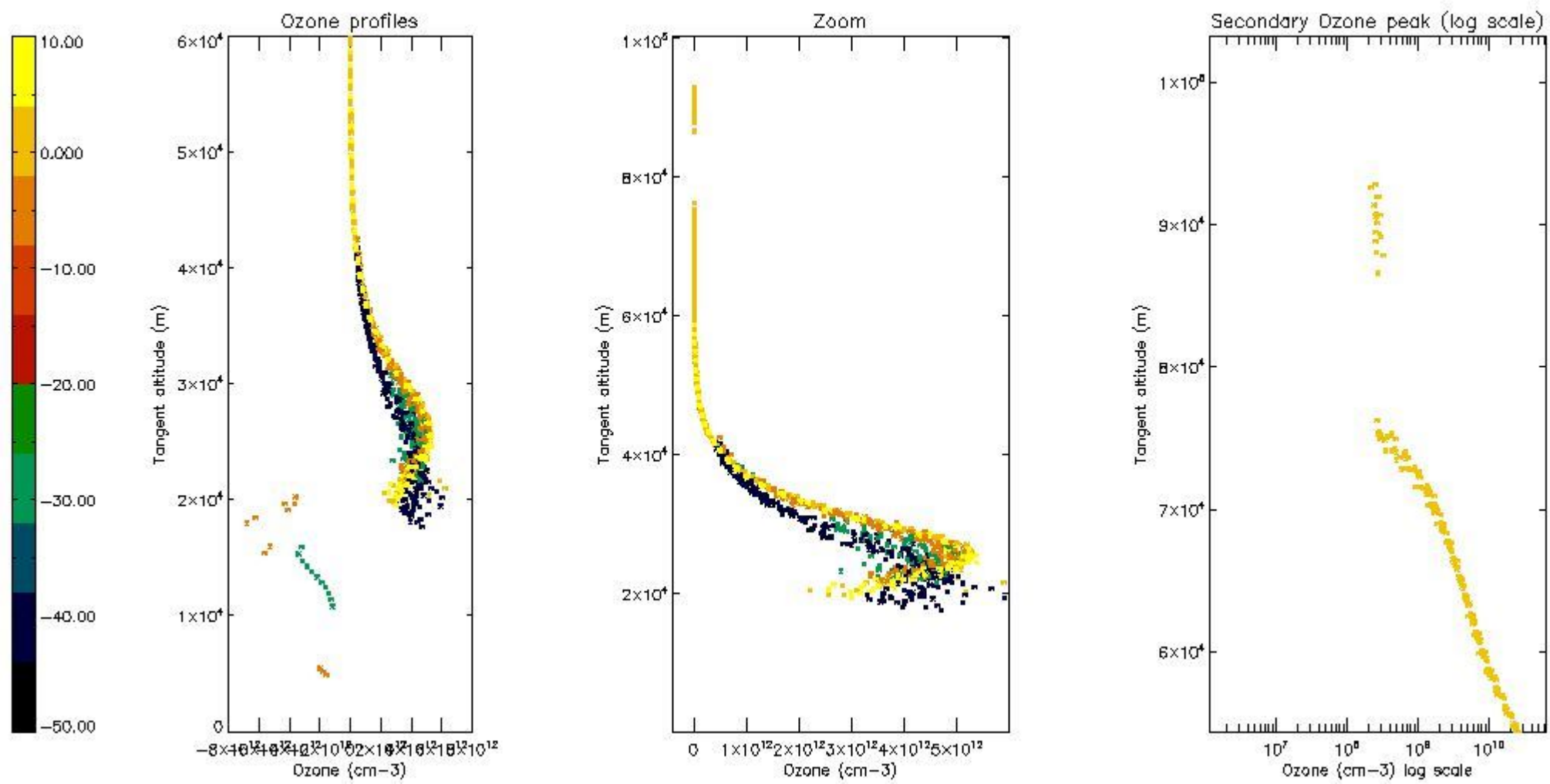
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



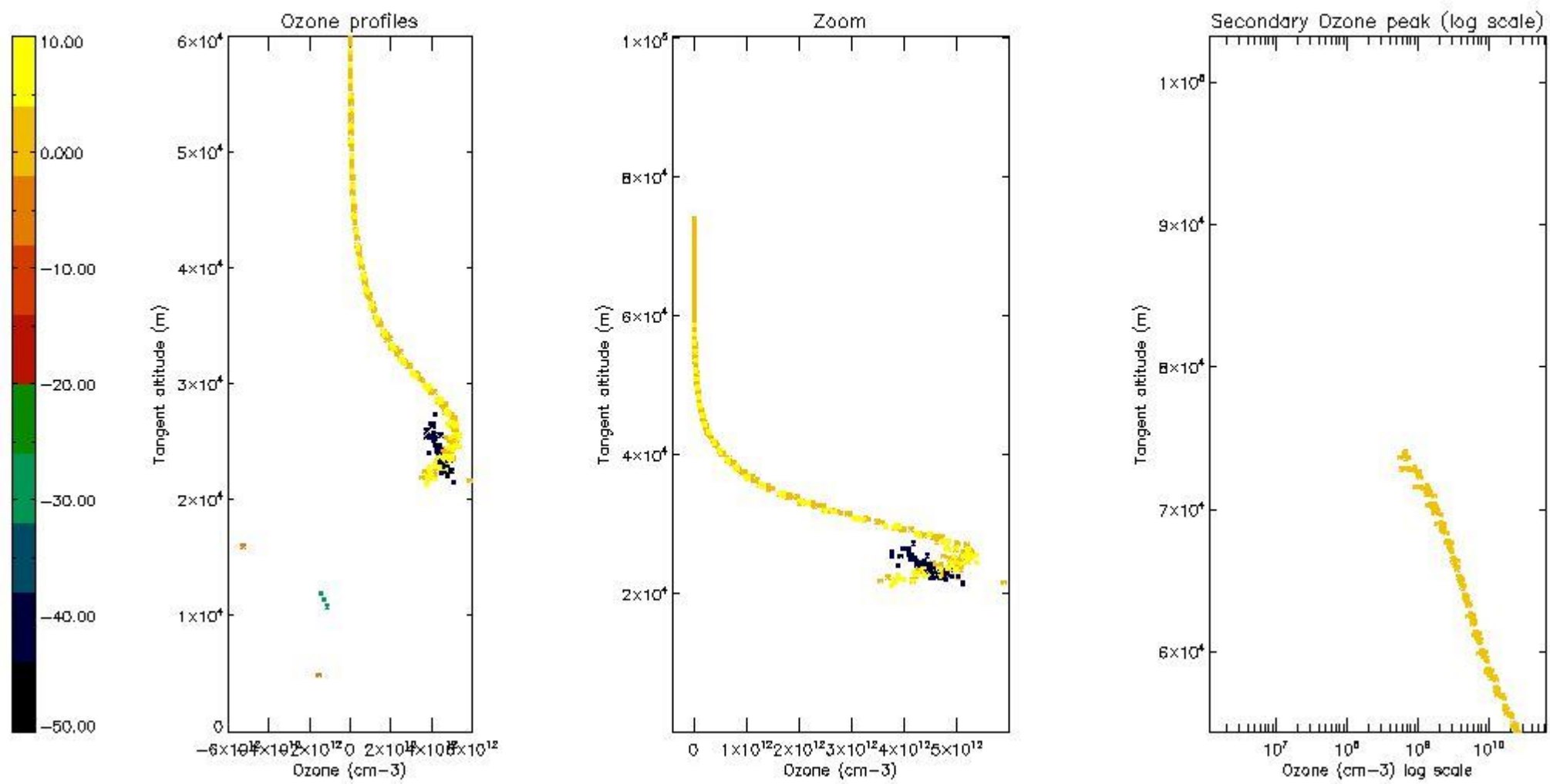
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



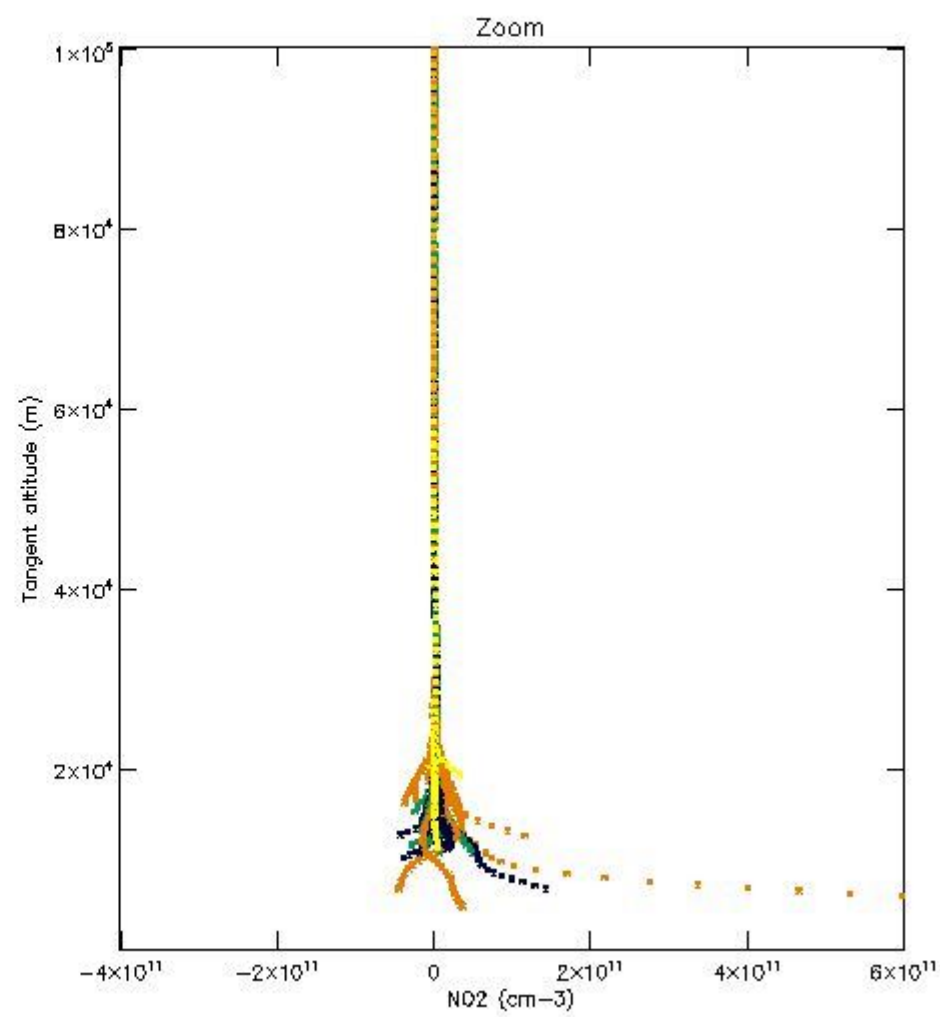
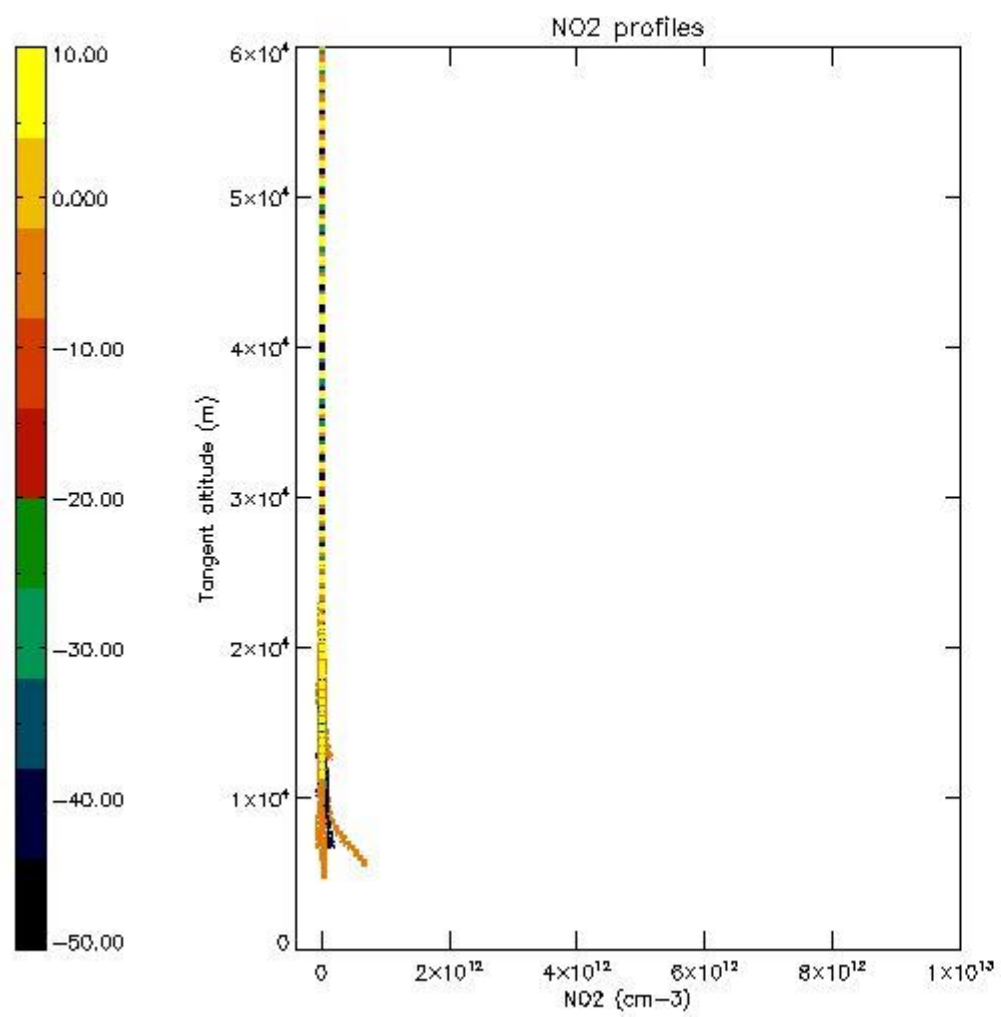
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



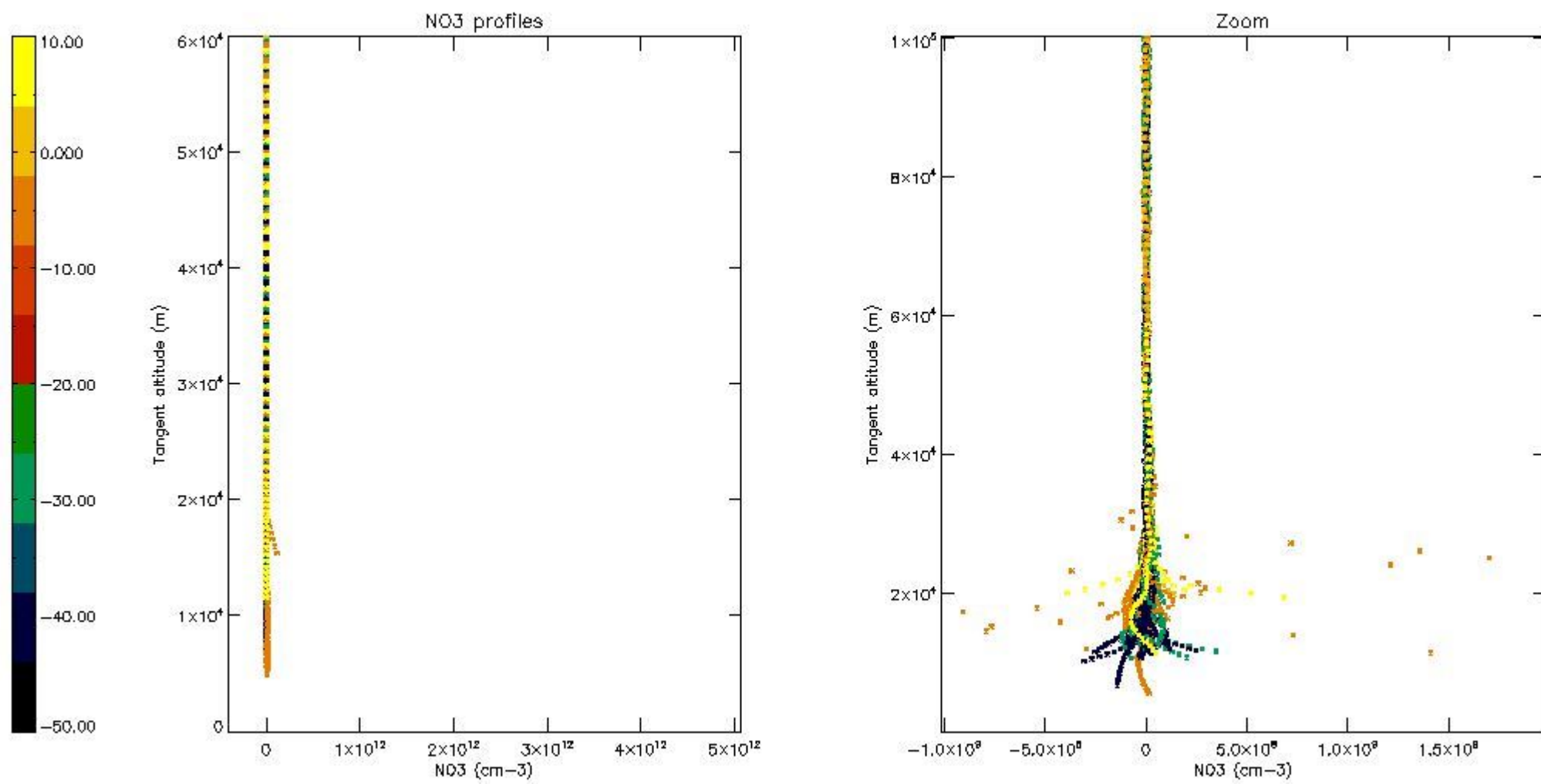
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



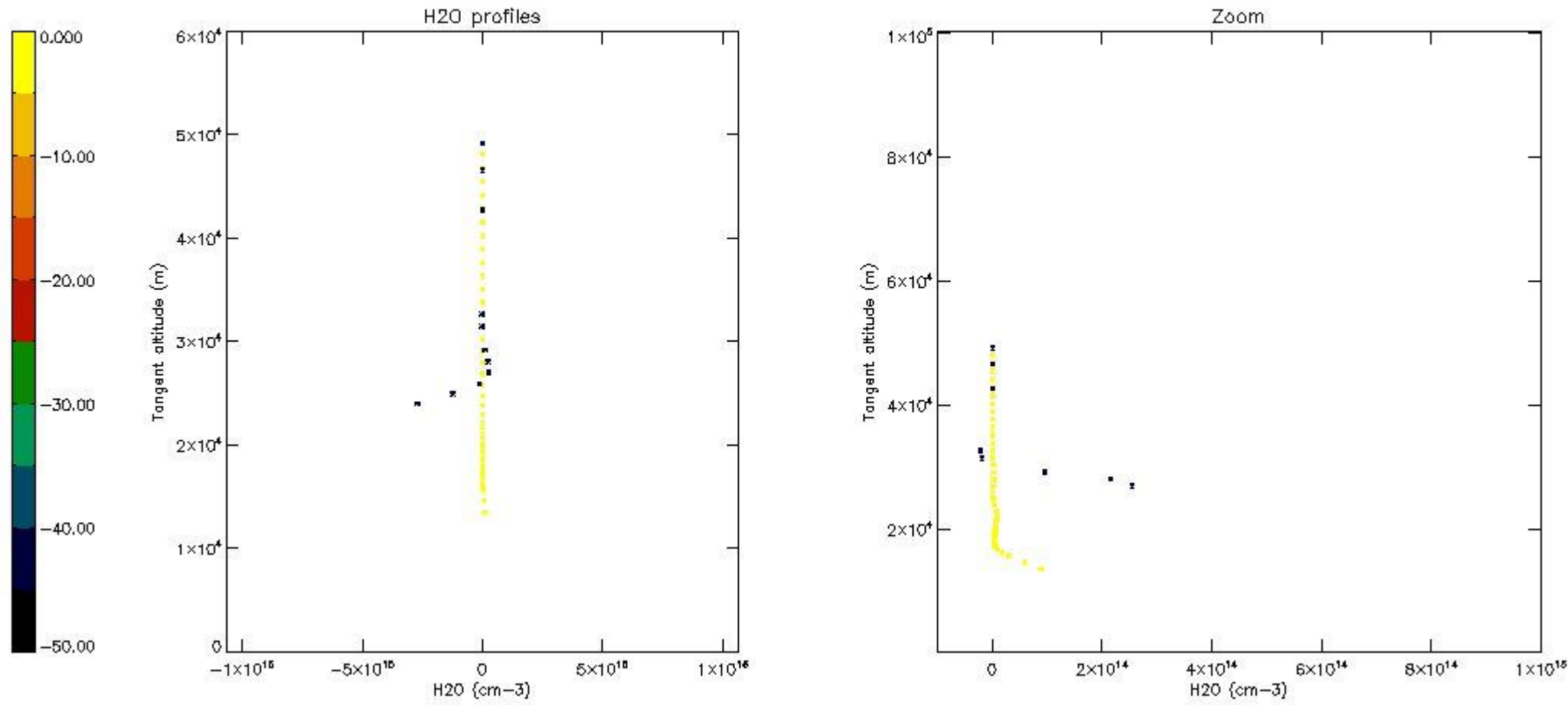
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

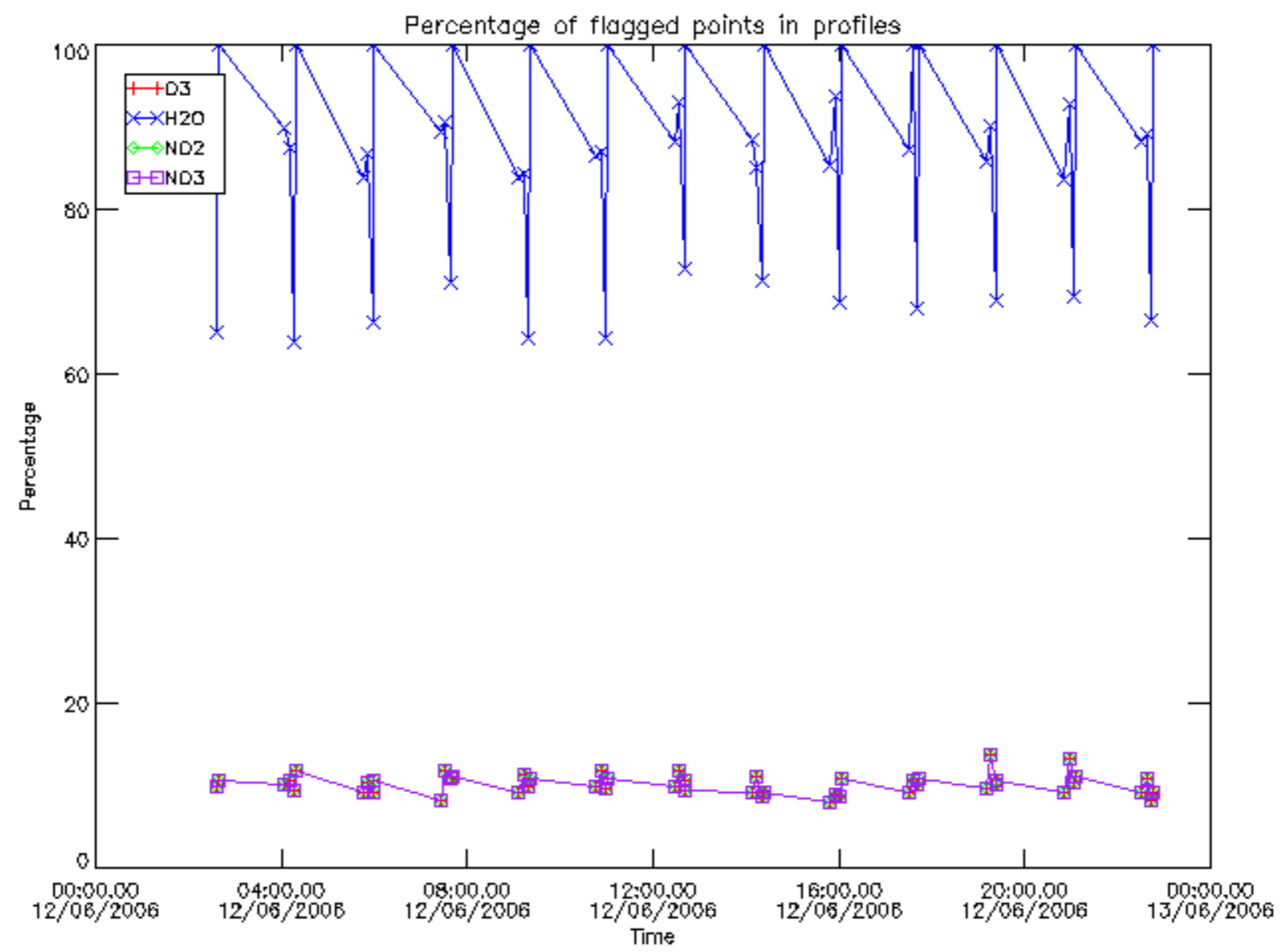
The colorbar represents the latitude.



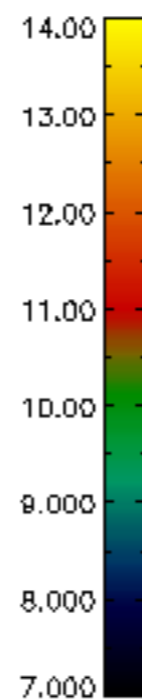
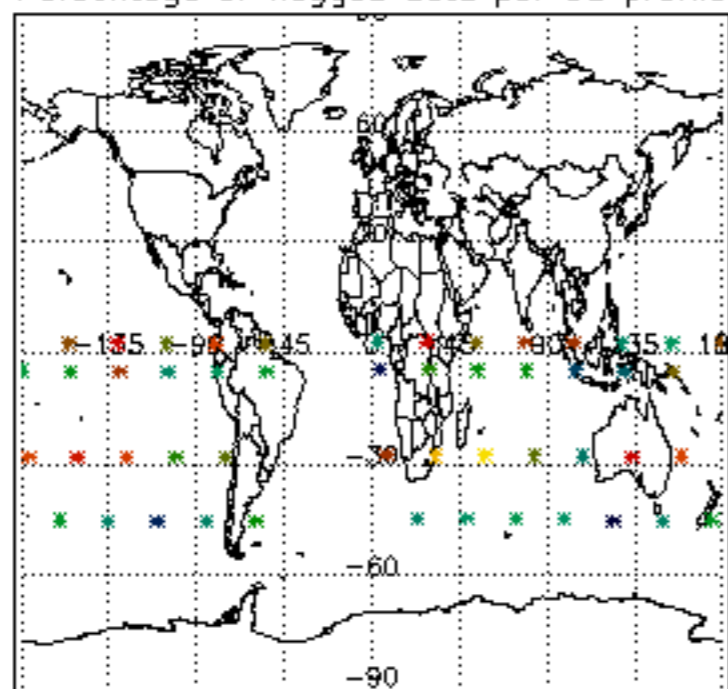
6. Auxiliary Data Files used for the production reported in section 2

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.

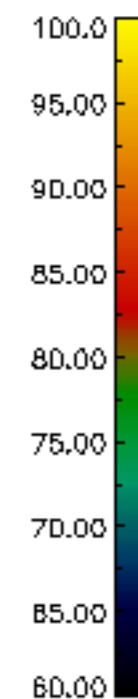
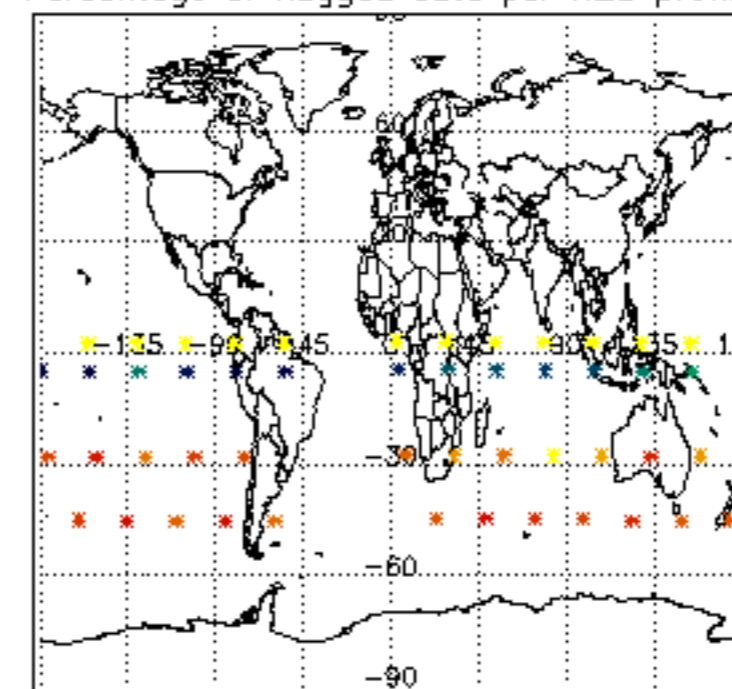
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	12-JUN-2006 02:36:19
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	12-JUN-2006 02:36:19
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	12-JUN-2006 02:36:19



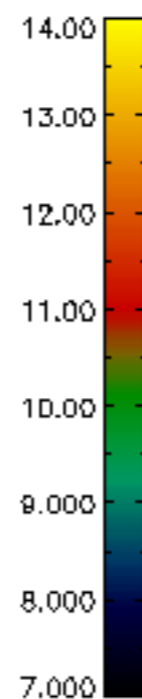
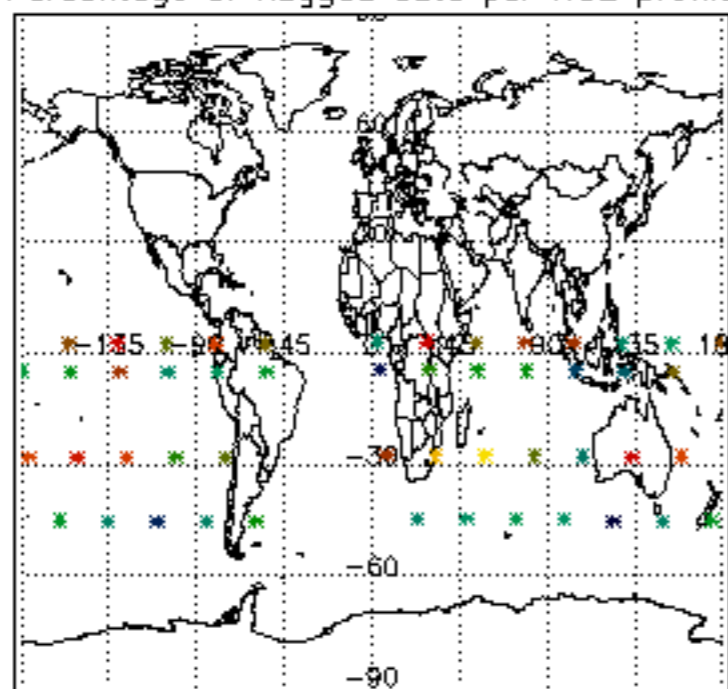
Percentage of flagged data per D3 profile



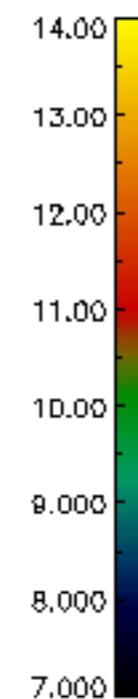
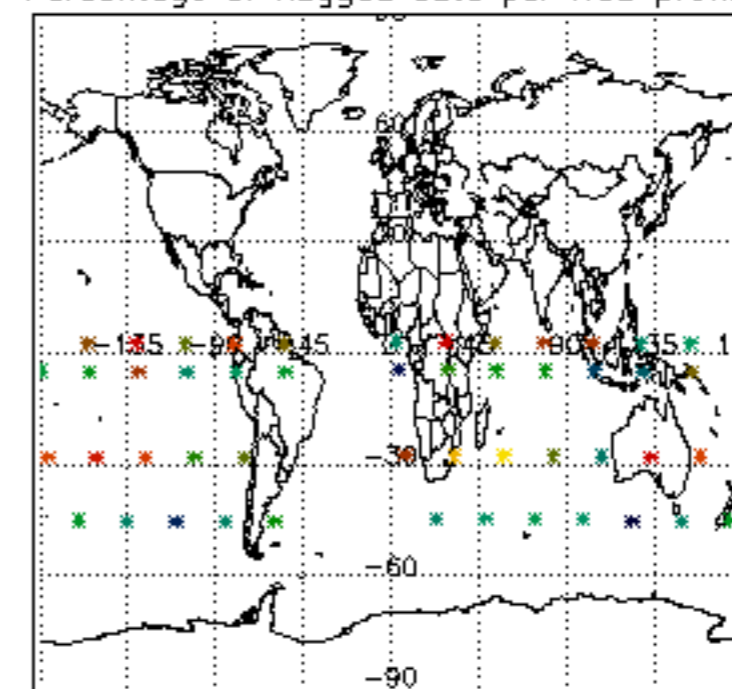
Percentage of flagged data per H2O profile

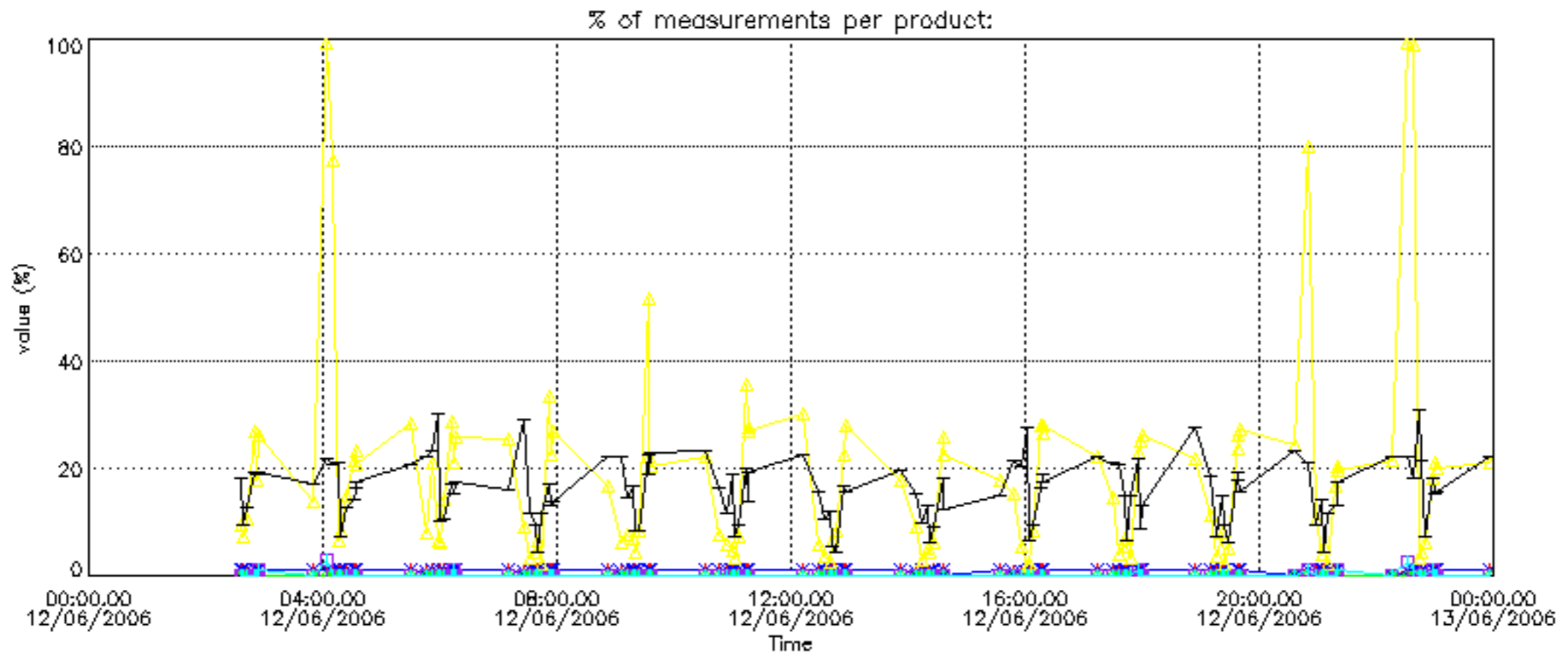


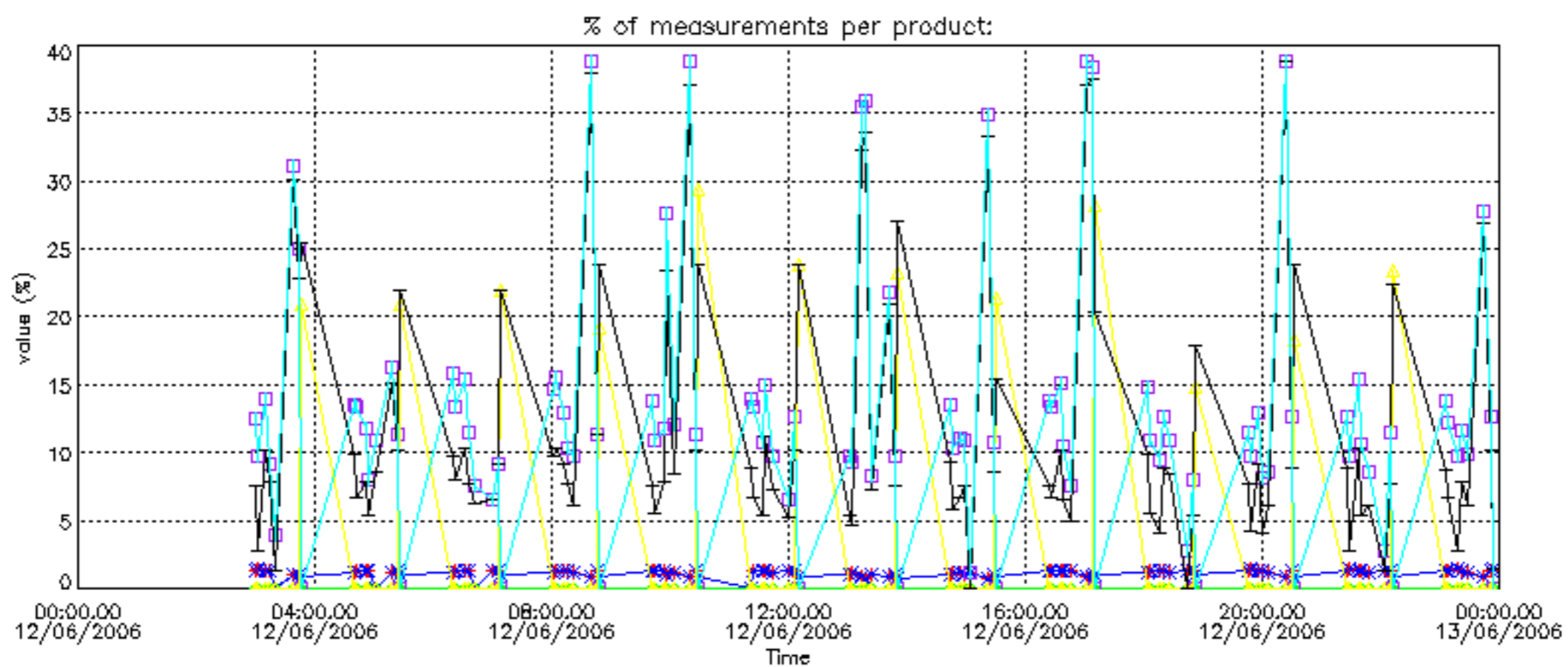
Percentage of flagged data per NO2 profile



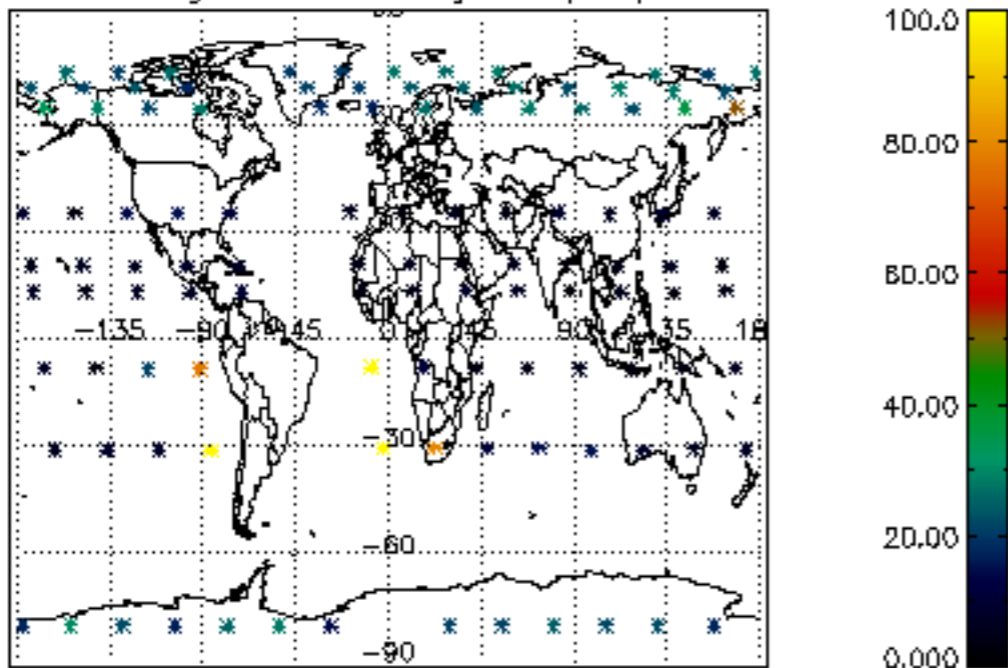
Percentage of flagged data per NO3 profile



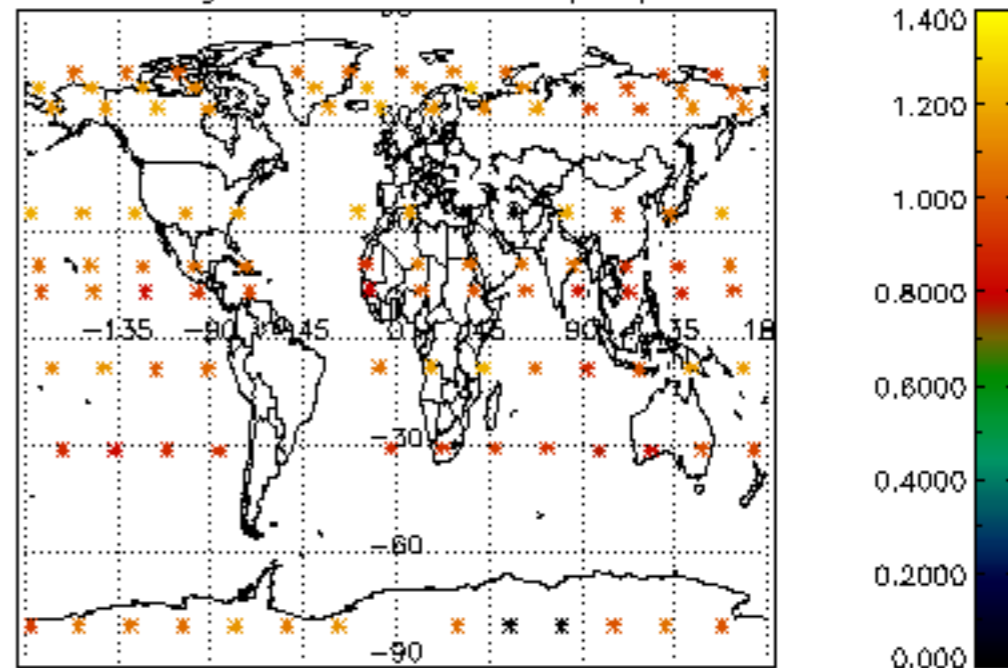




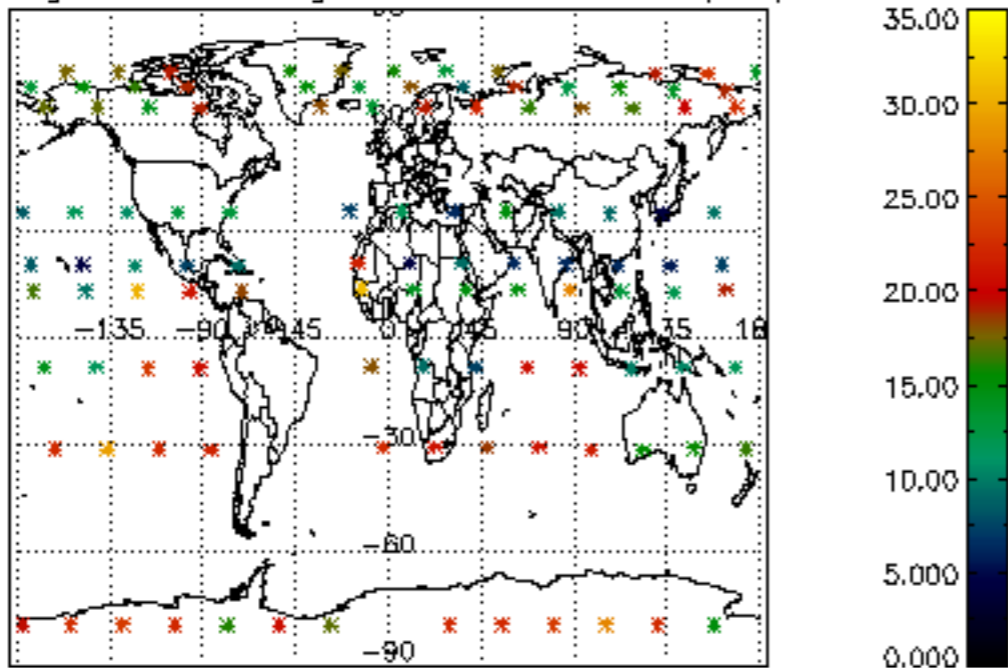
Percentage of cosmic ray hits per profile



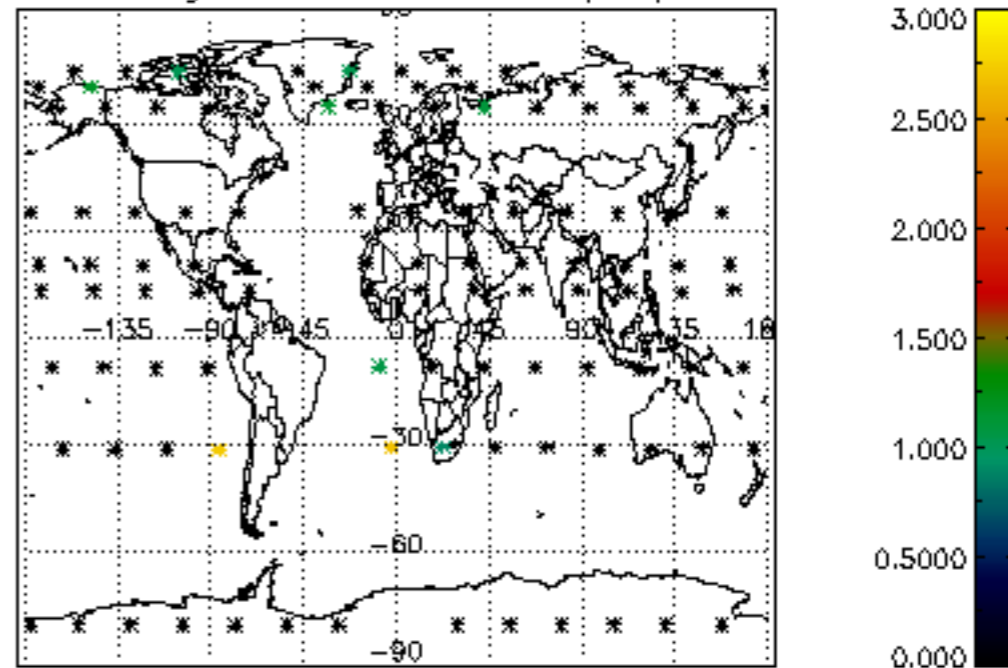
Percentage of datation errors per profile



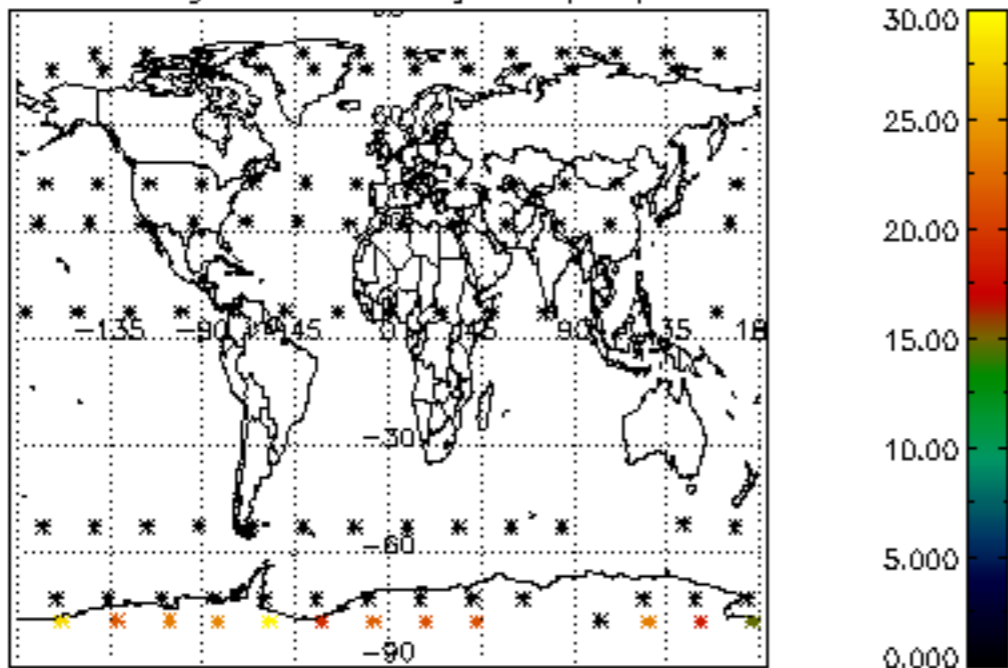
Percentage of star falling outside central band per profile



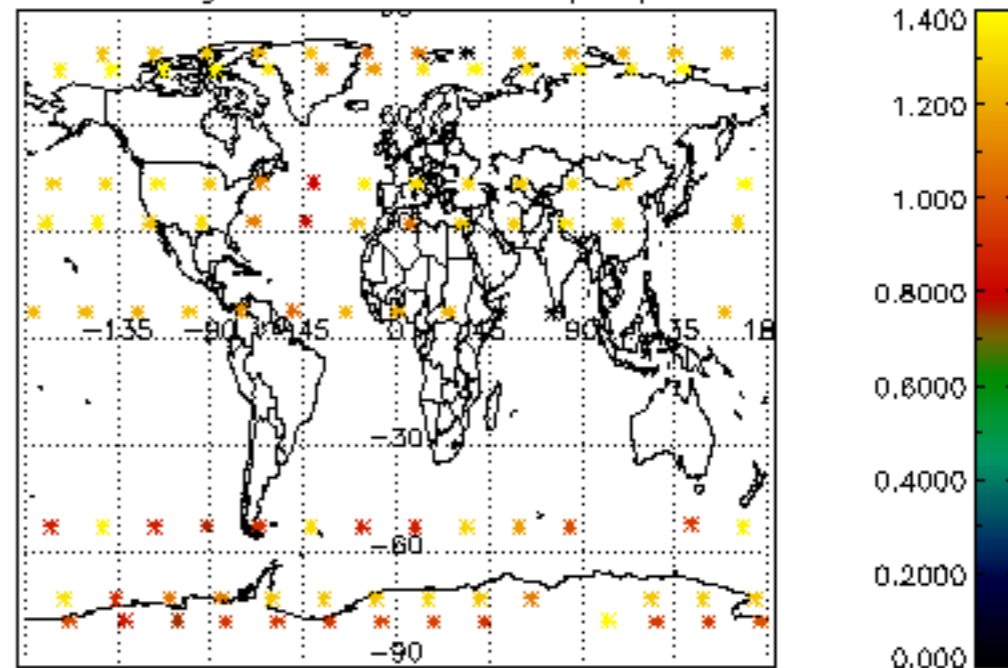
Percentage of saturation errors per profile



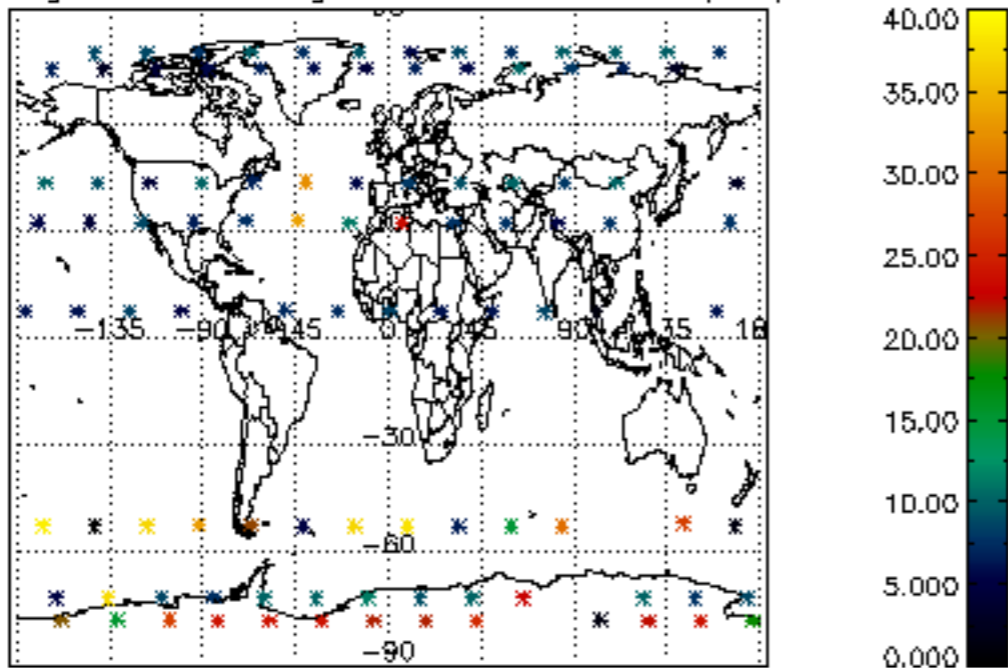
Percentage of cosmic ray hits per profile



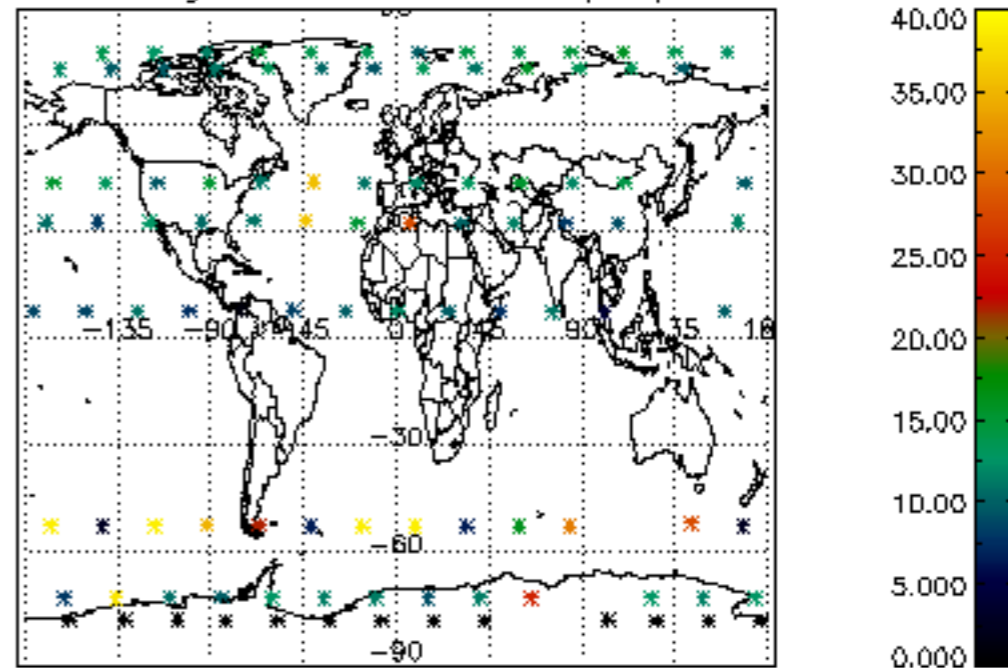
Percentage of datation errors per profile

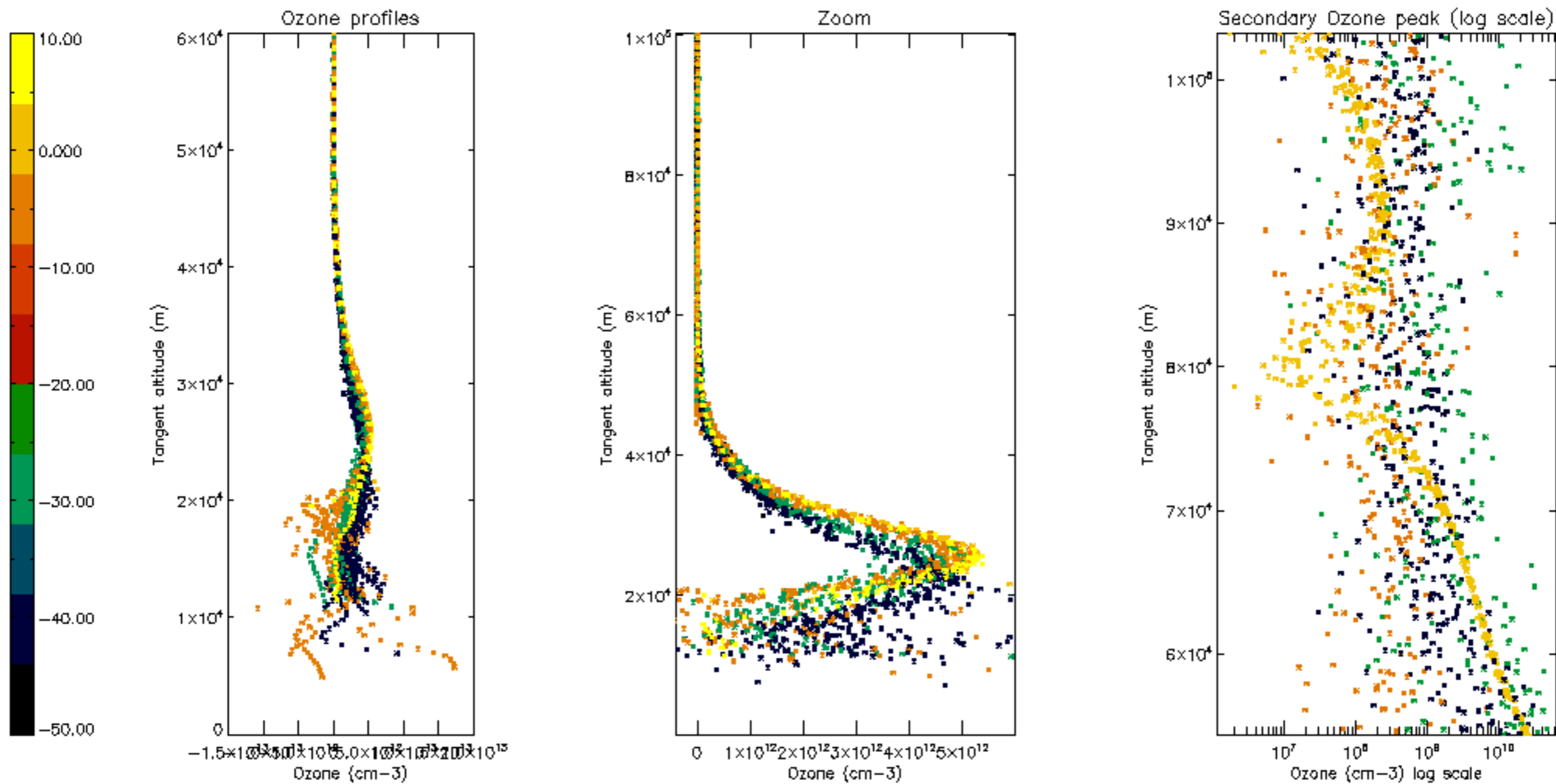


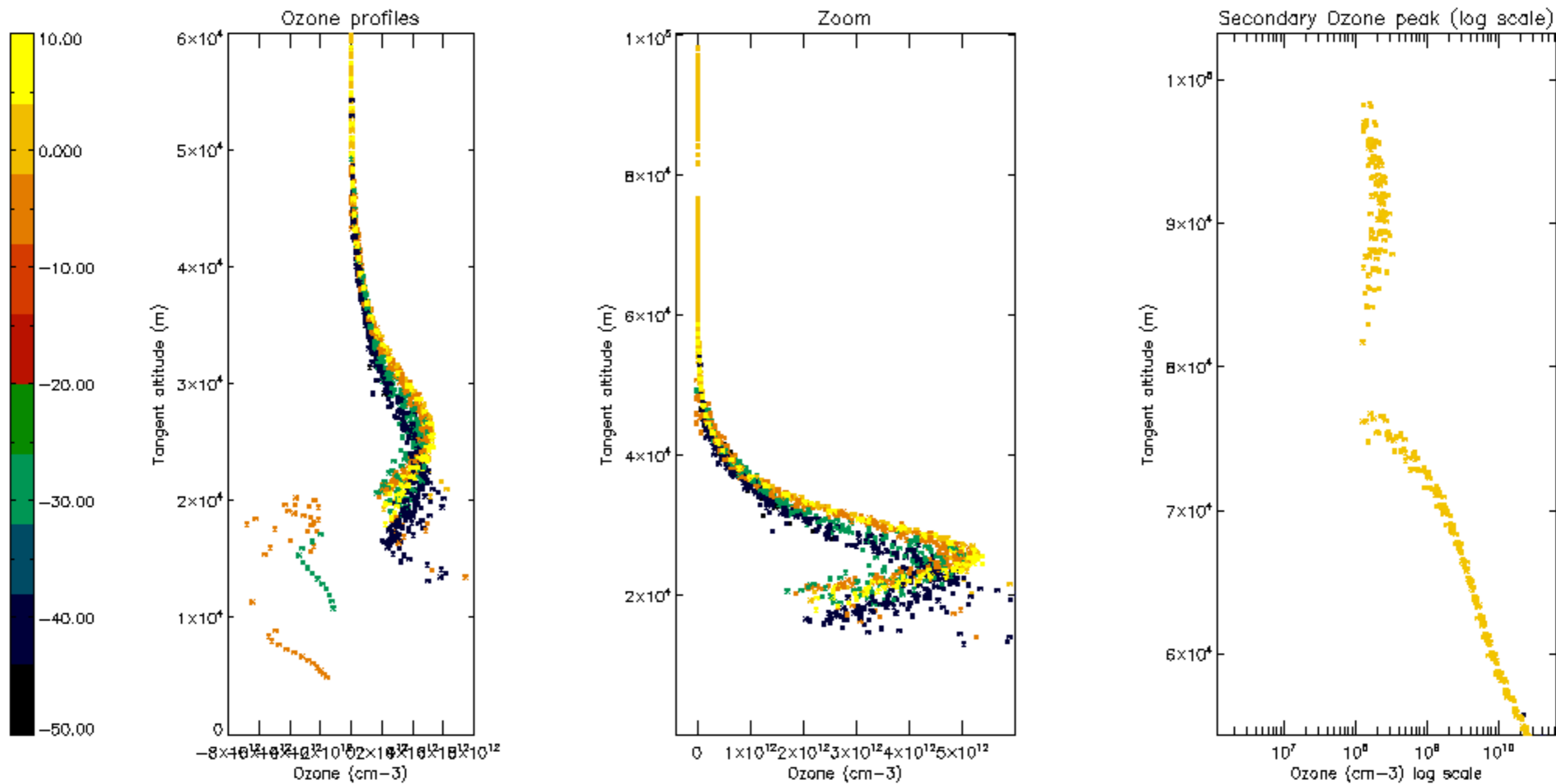
Percentage of star falling outside central band per profile

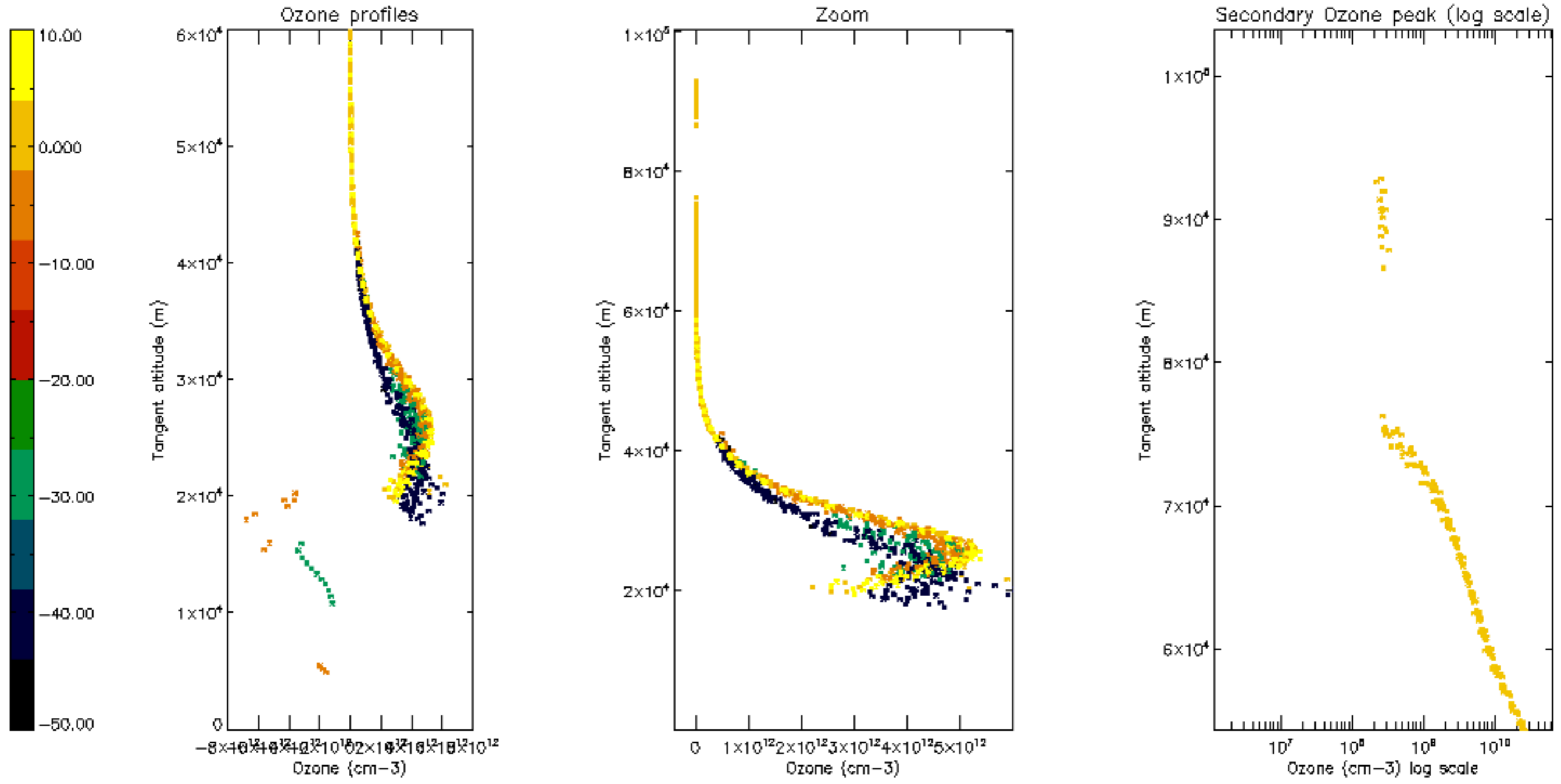


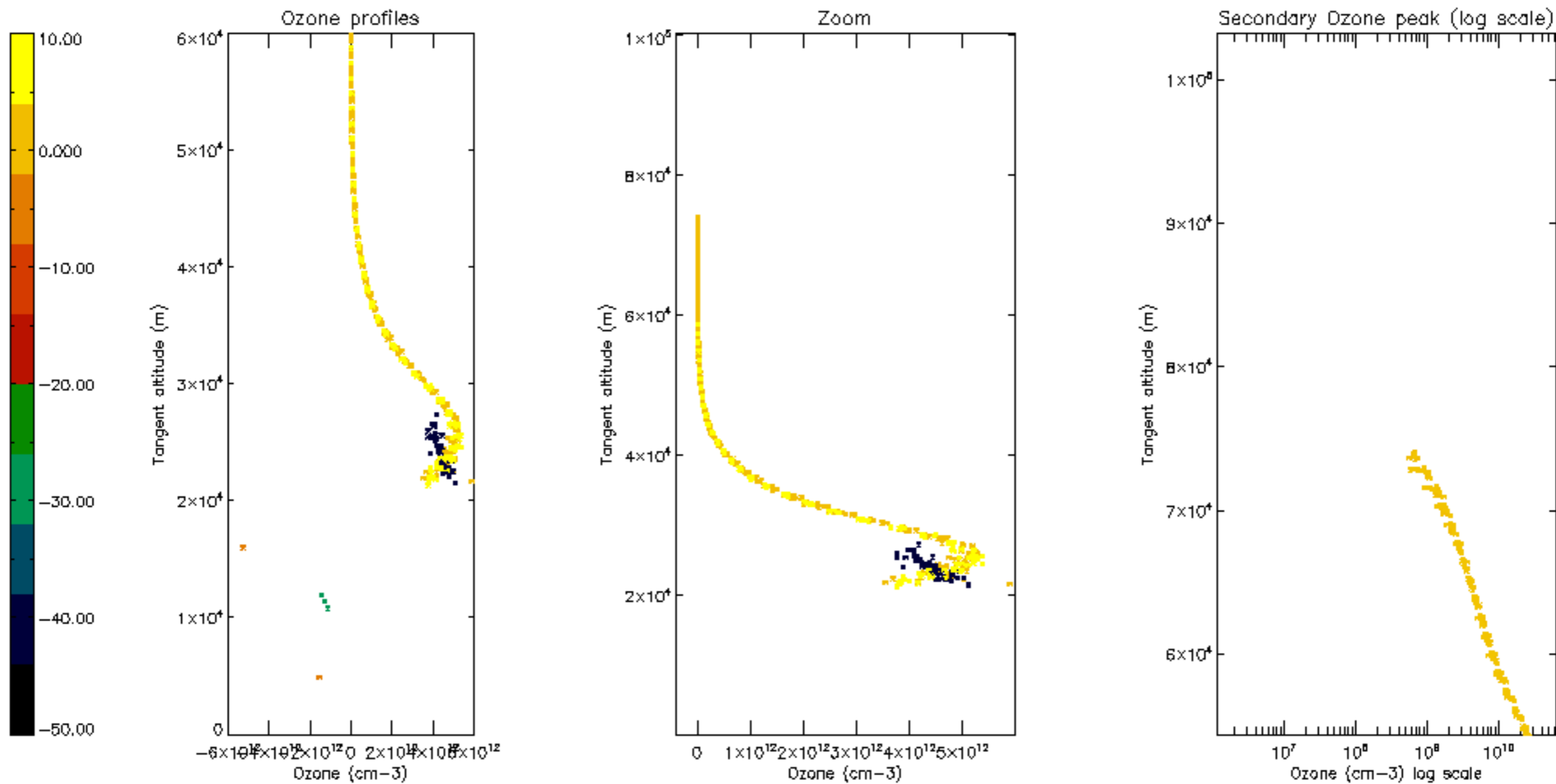
Percentage of saturation errors per profile

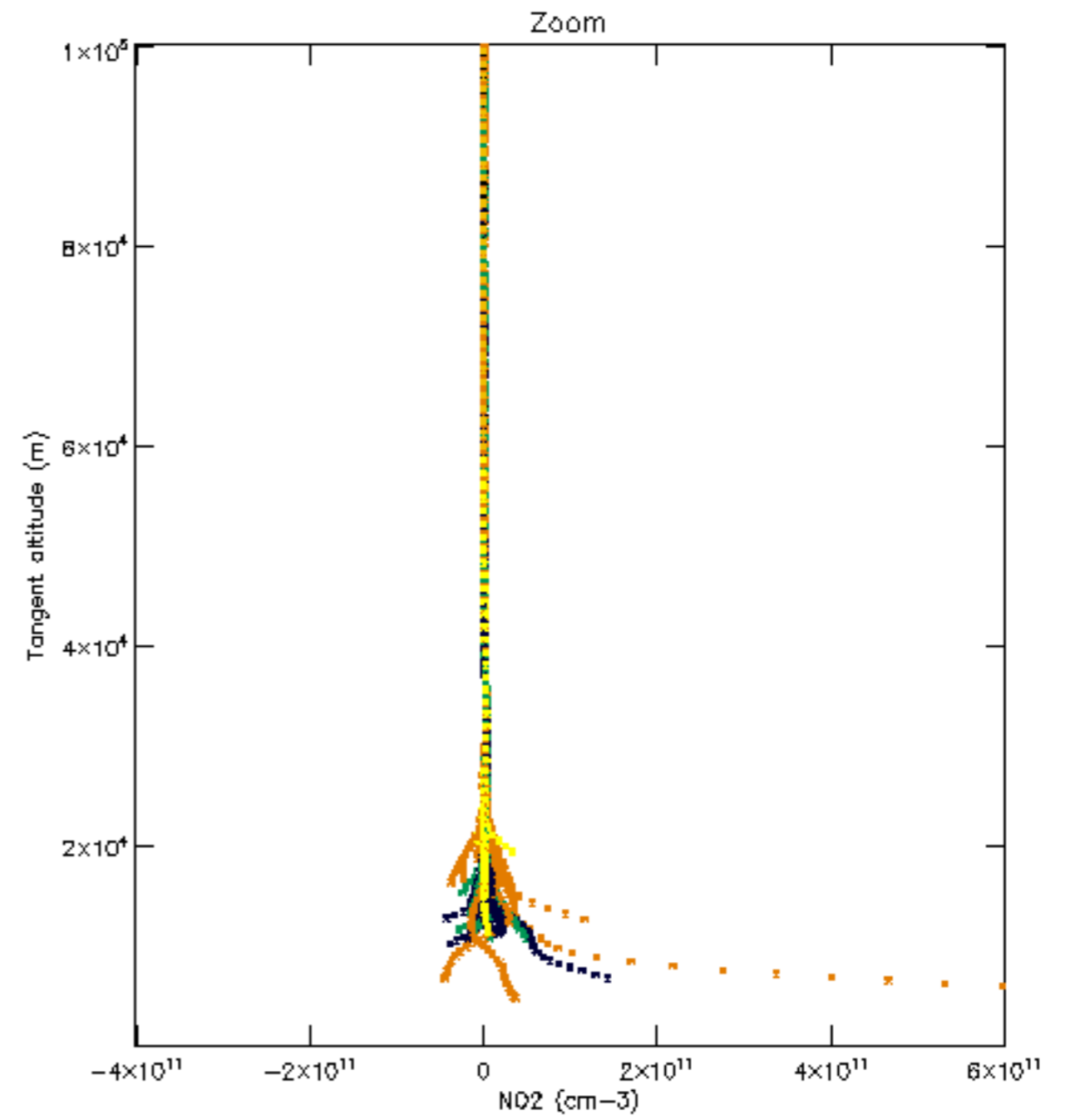
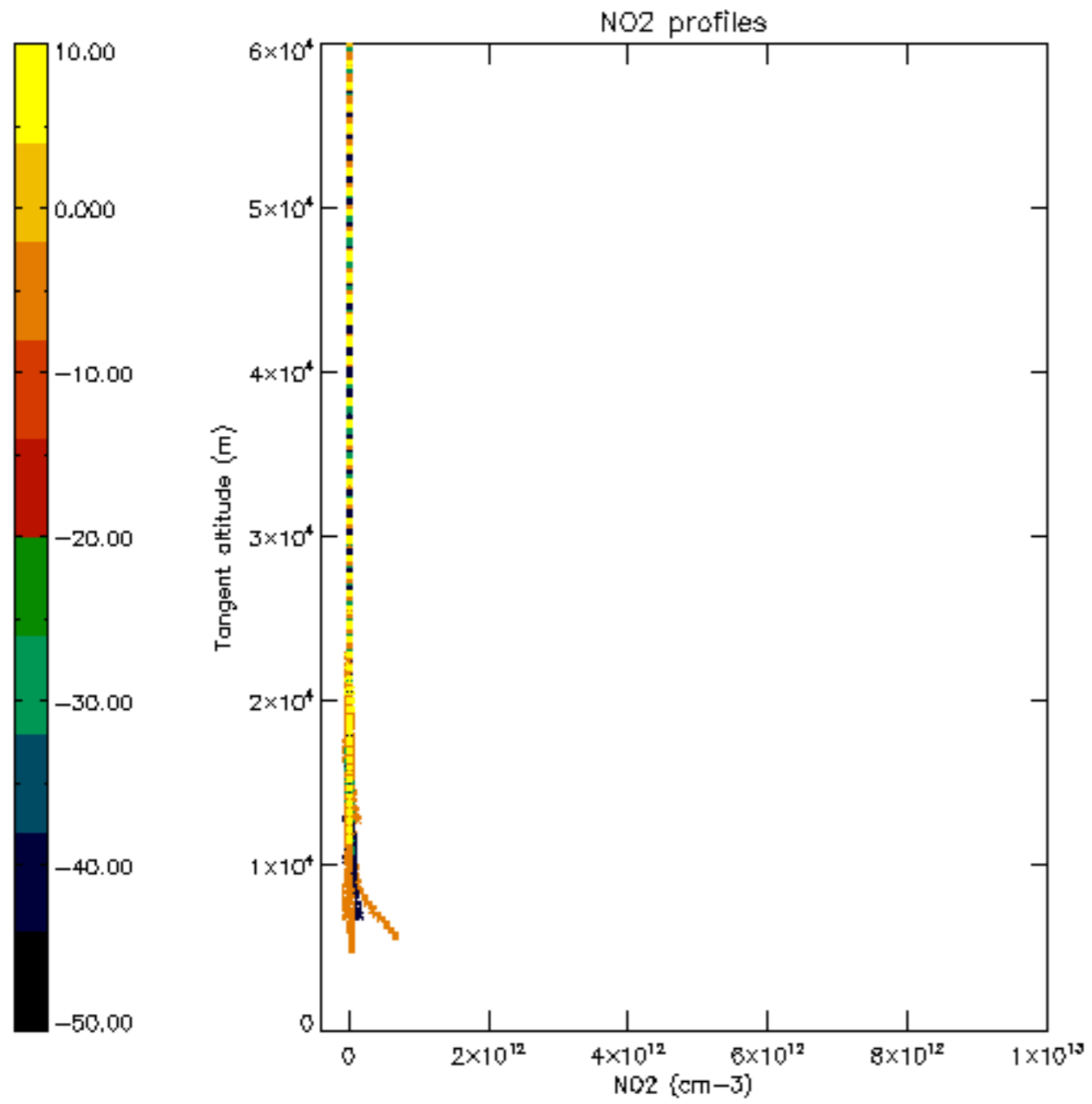


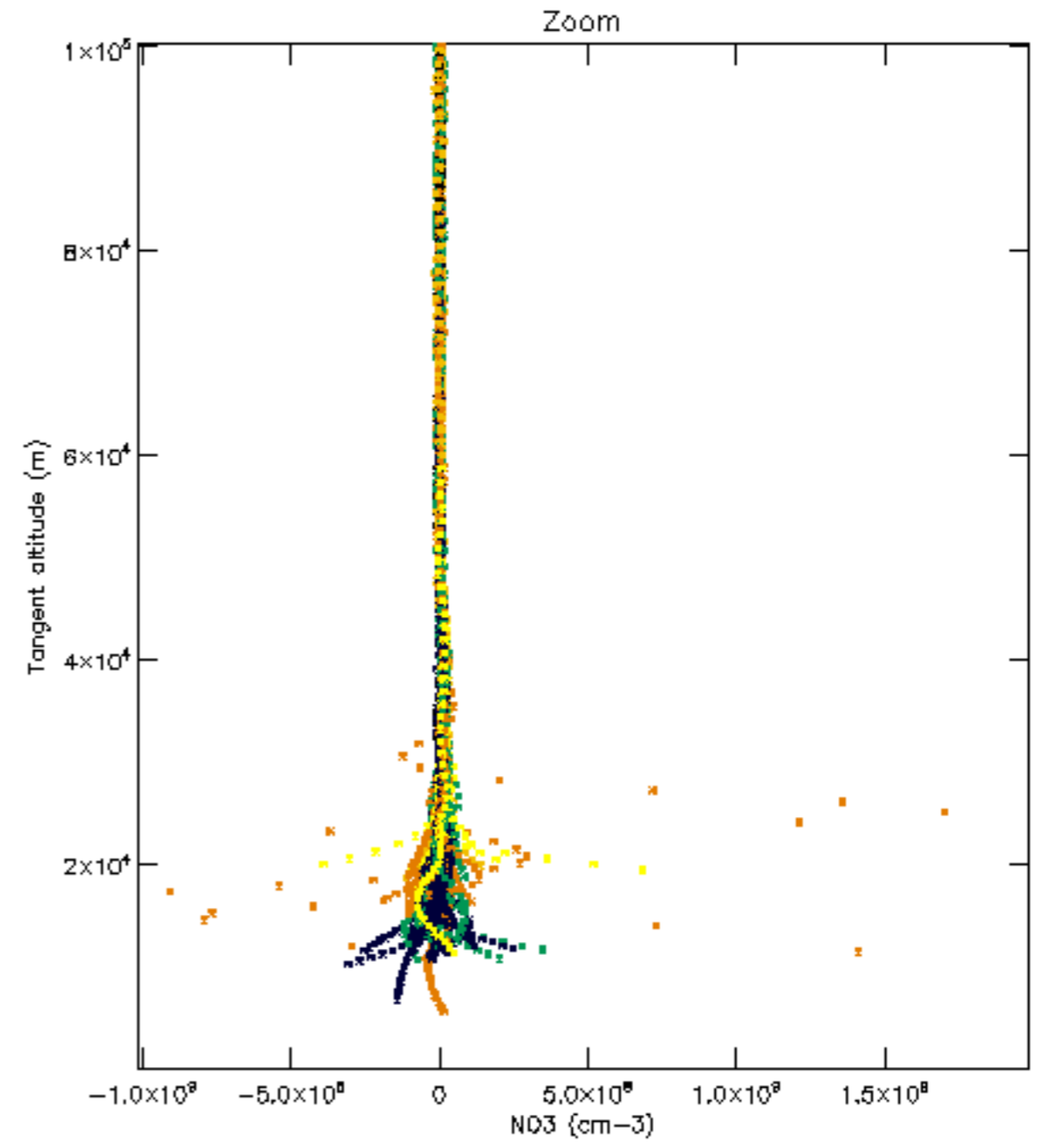
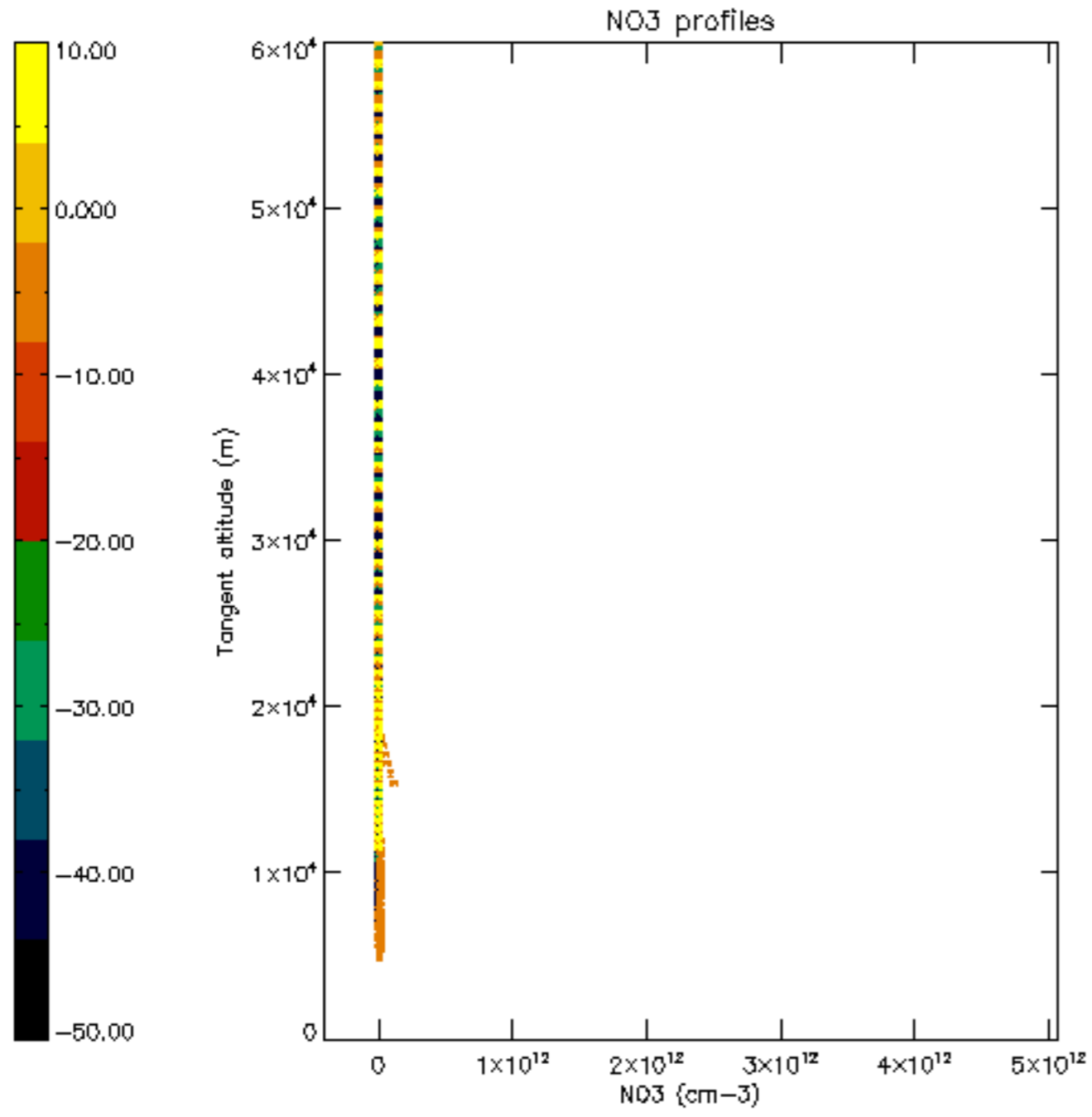


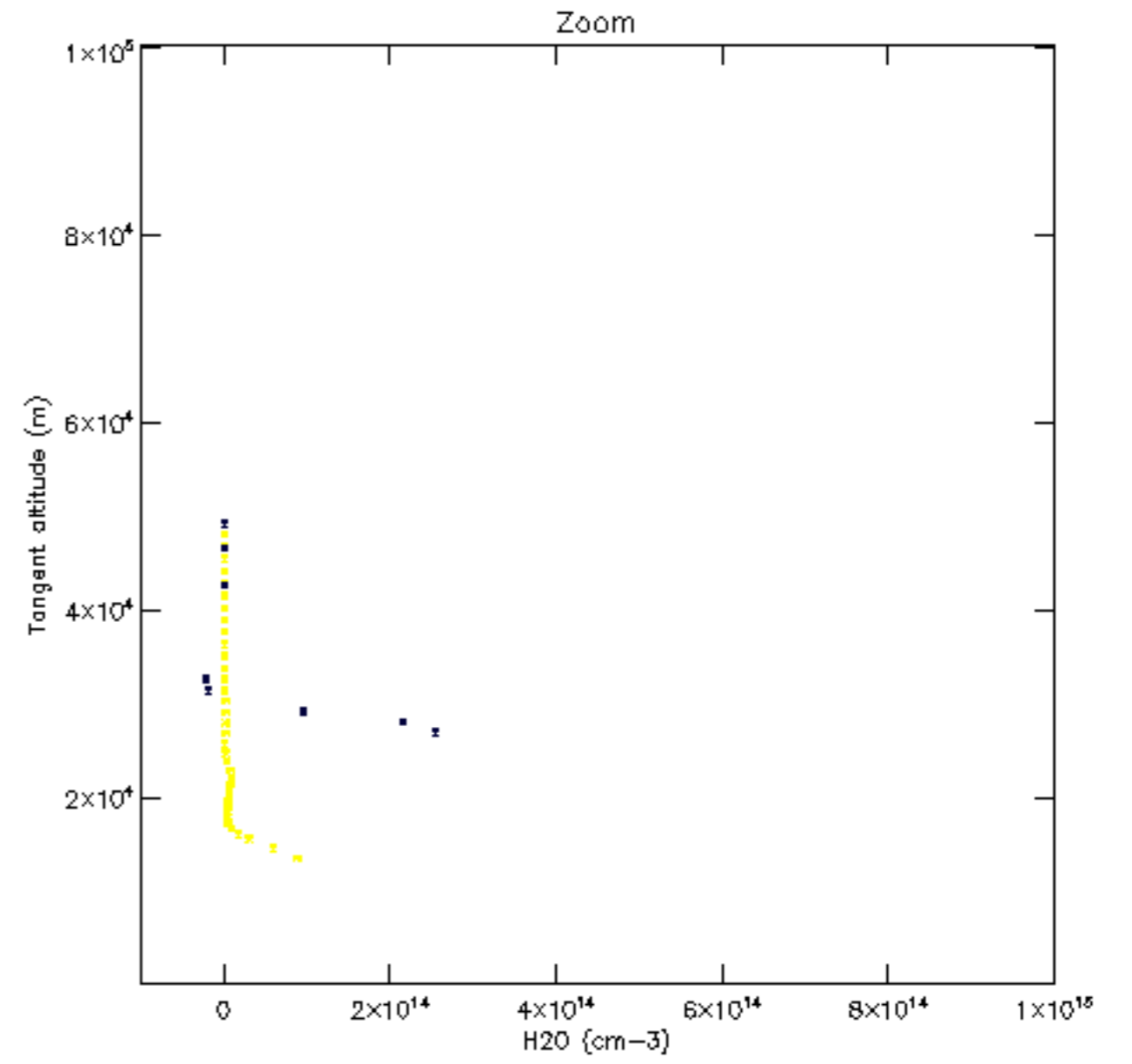
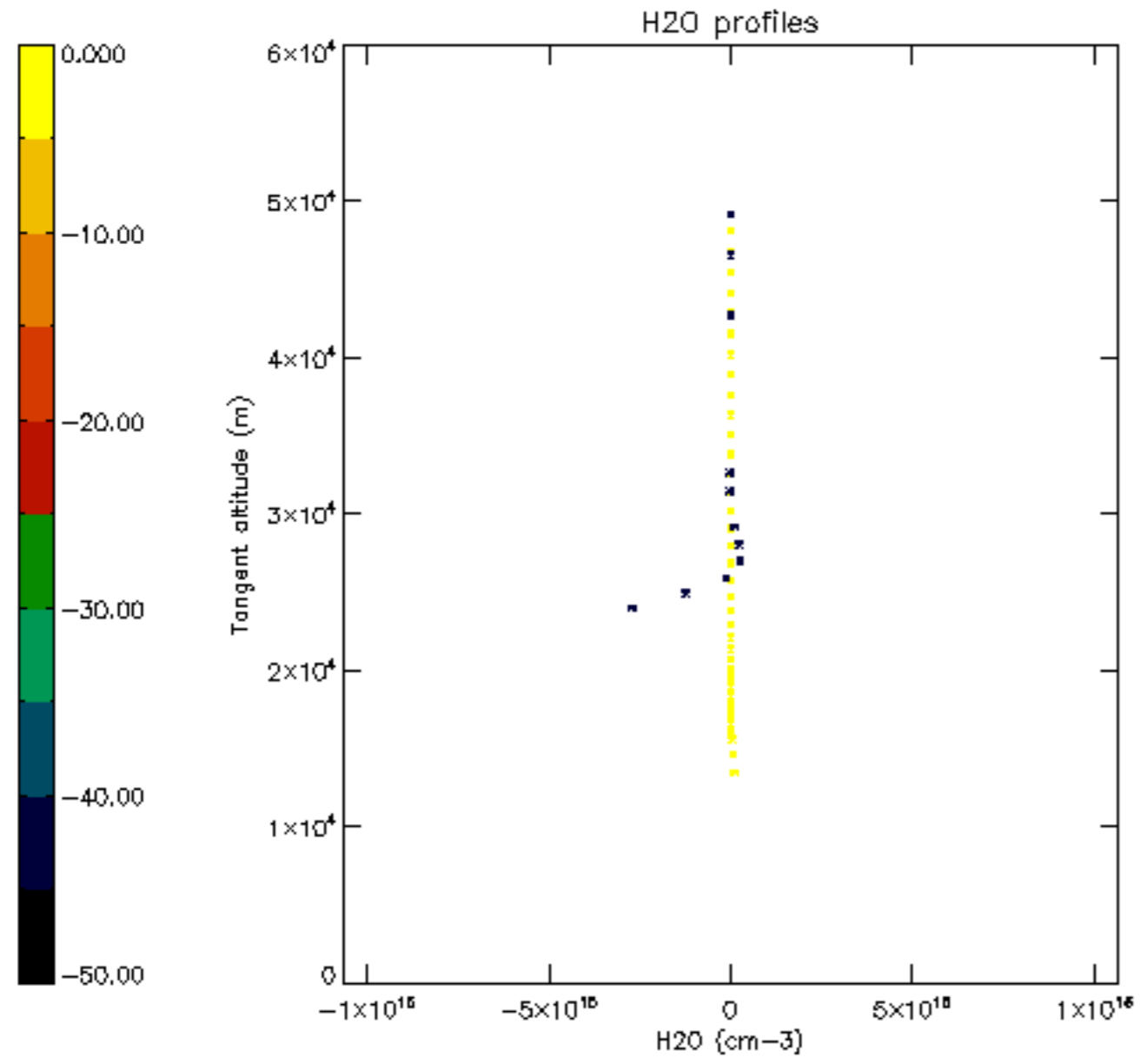


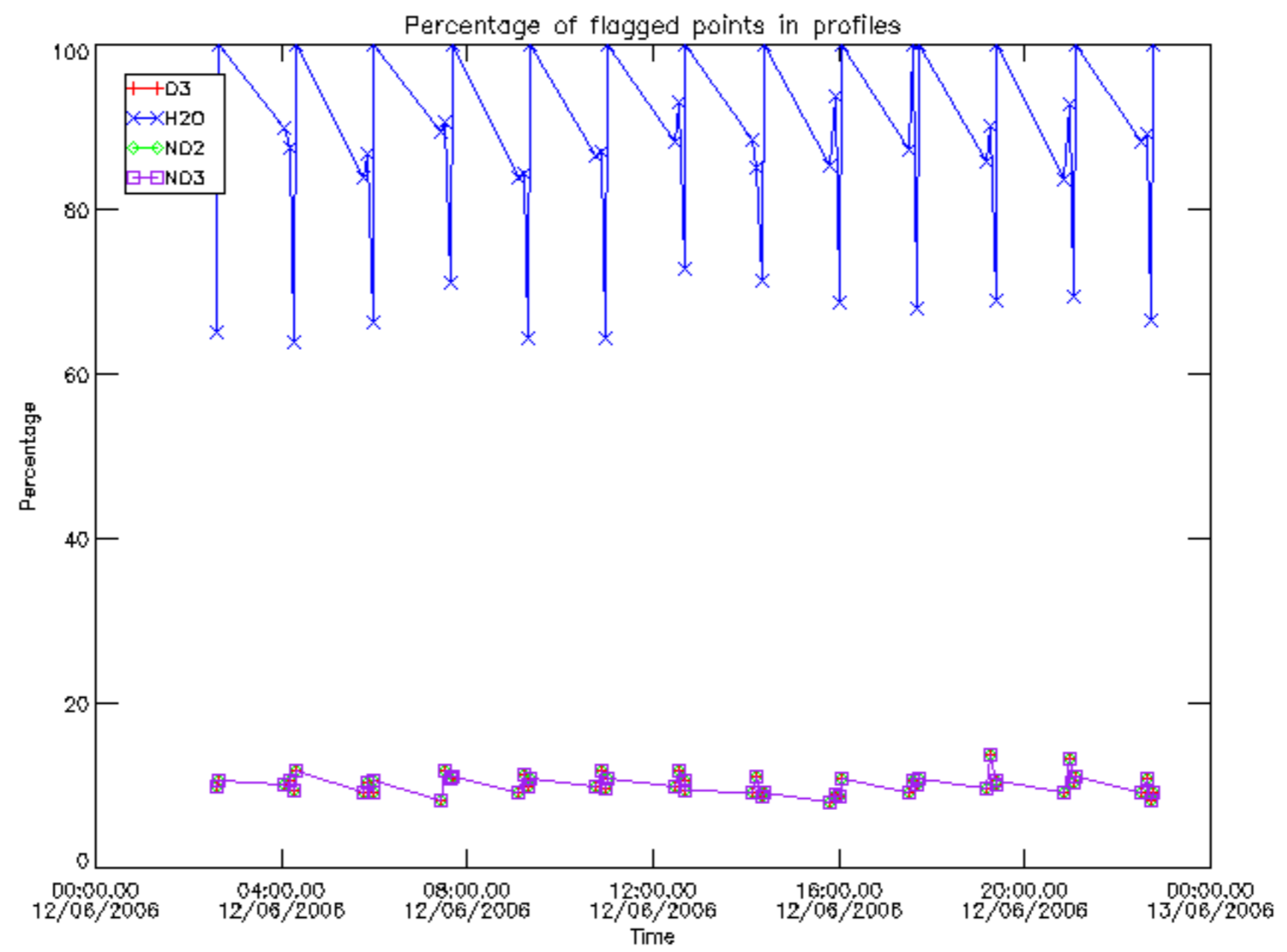




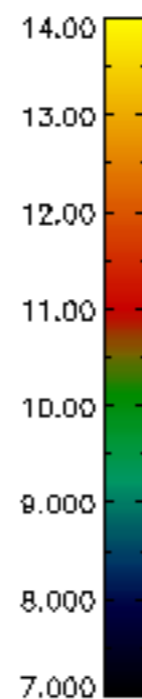
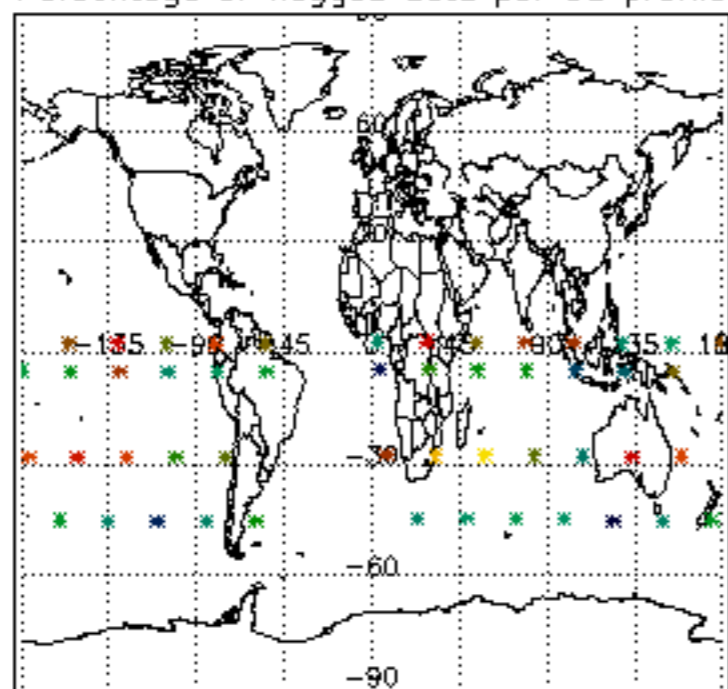




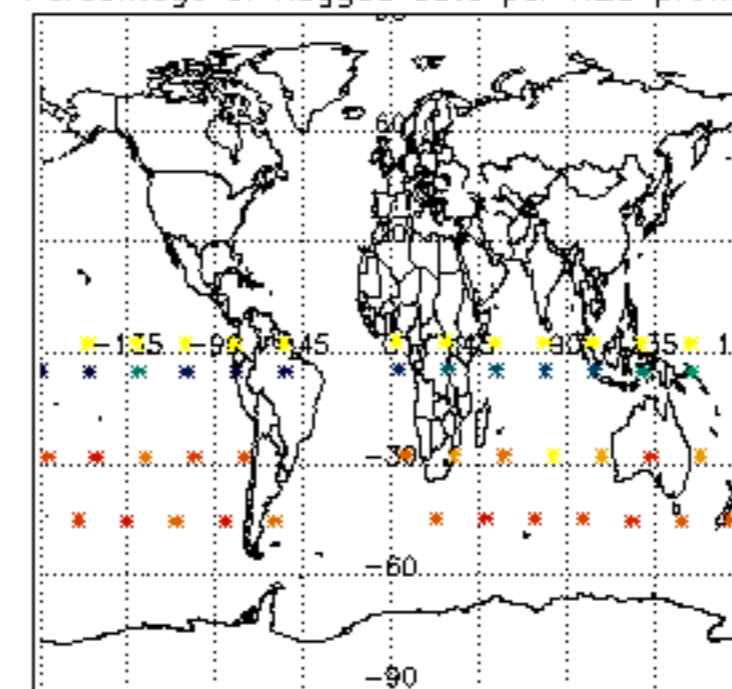




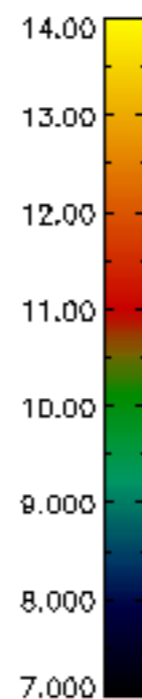
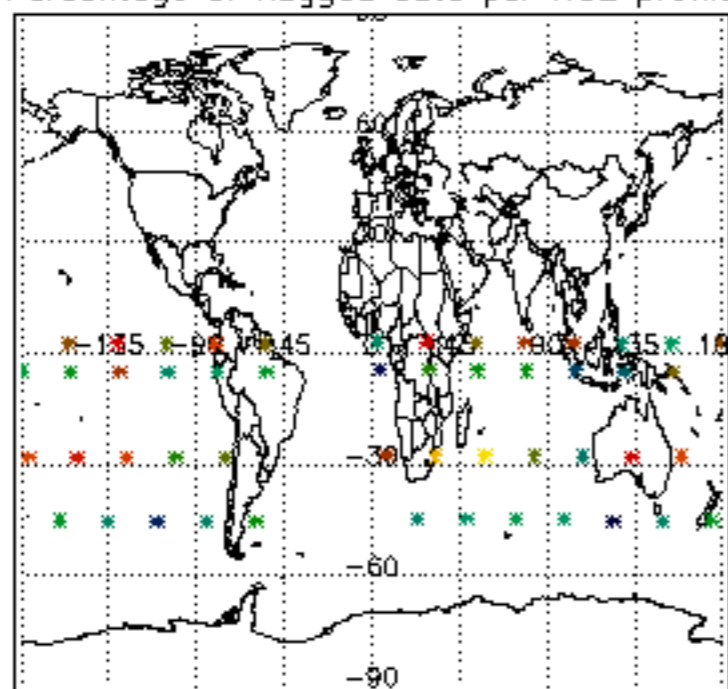
Percentage of flagged data per D3 profile



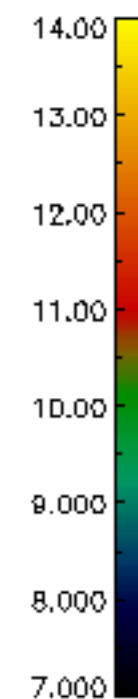
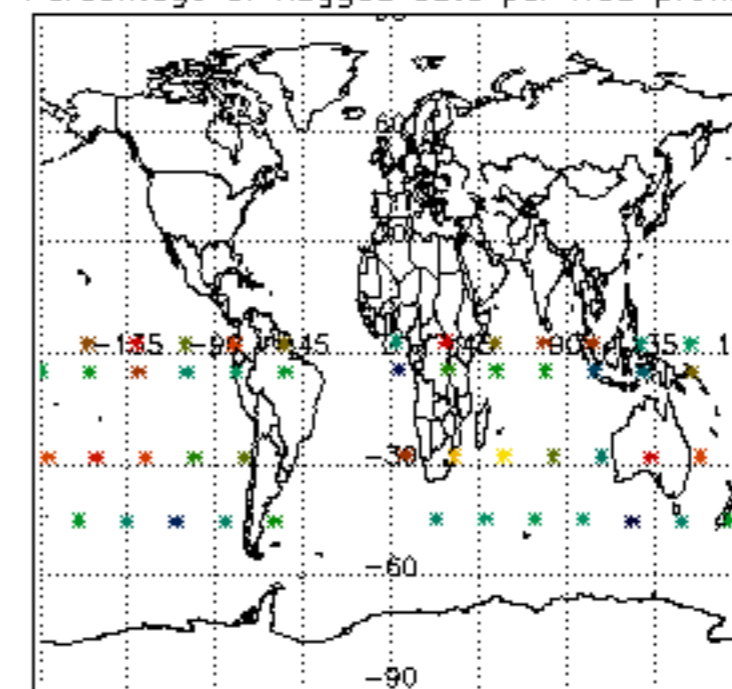
Percentage of flagged data per H2O profile

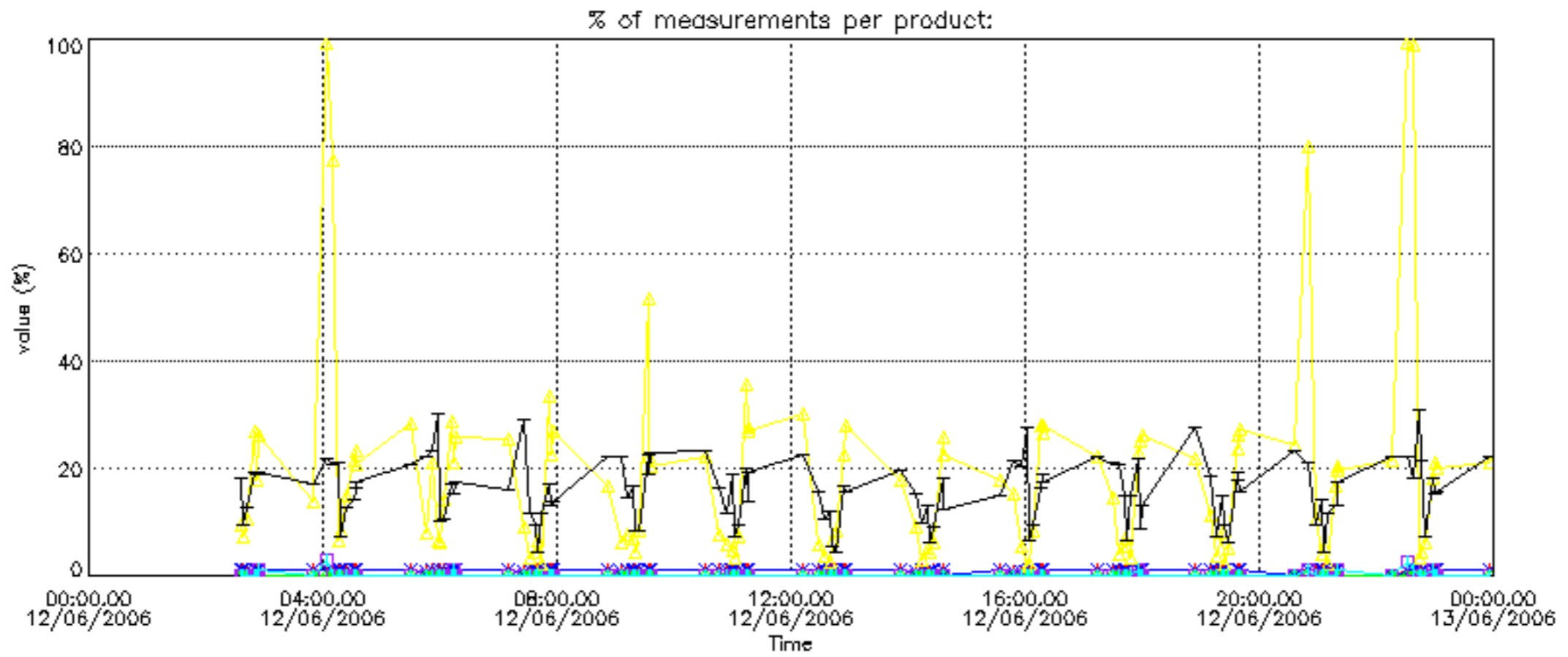


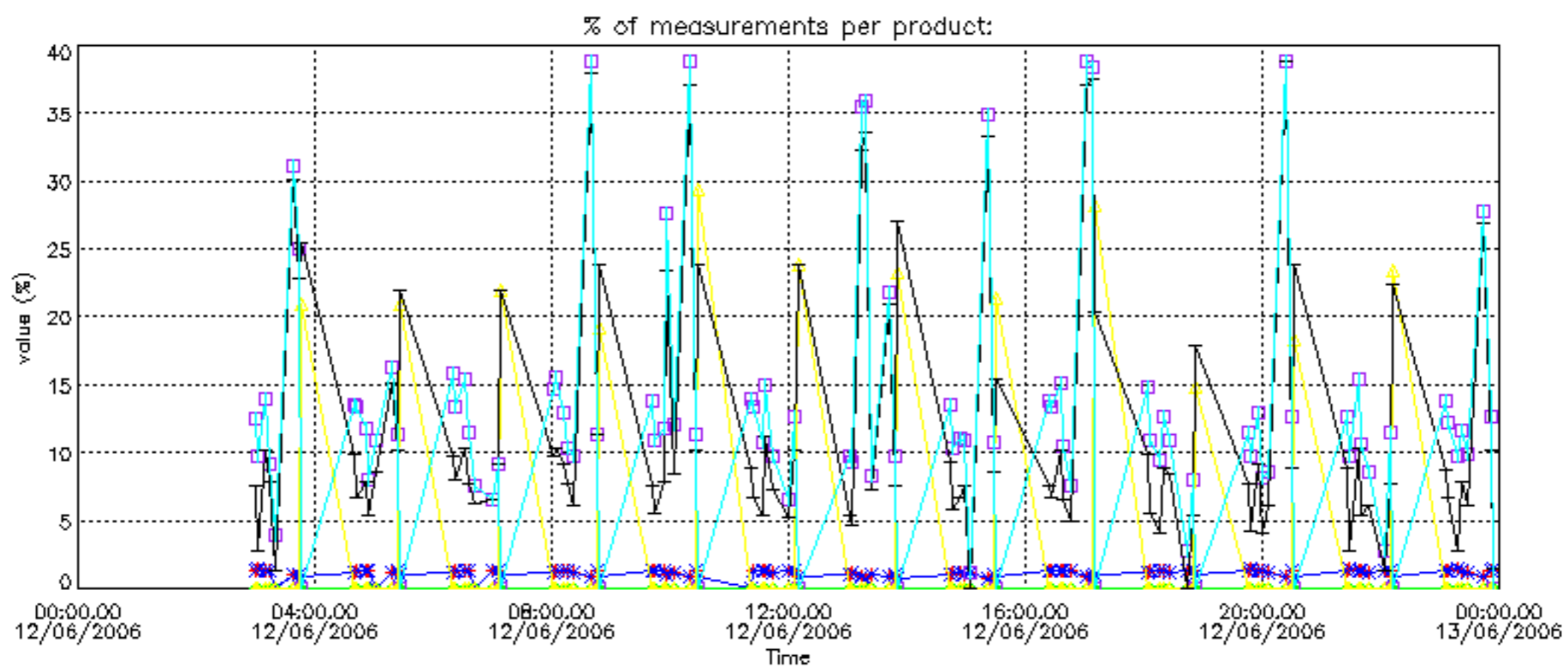
Percentage of flagged data per NO2 profile



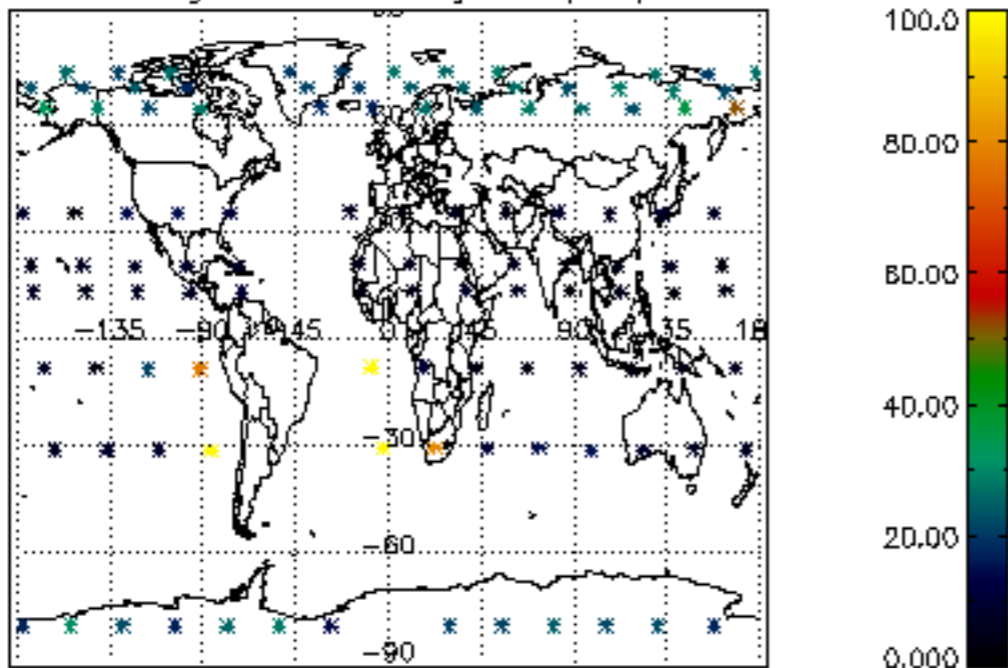
Percentage of flagged data per NO3 profile



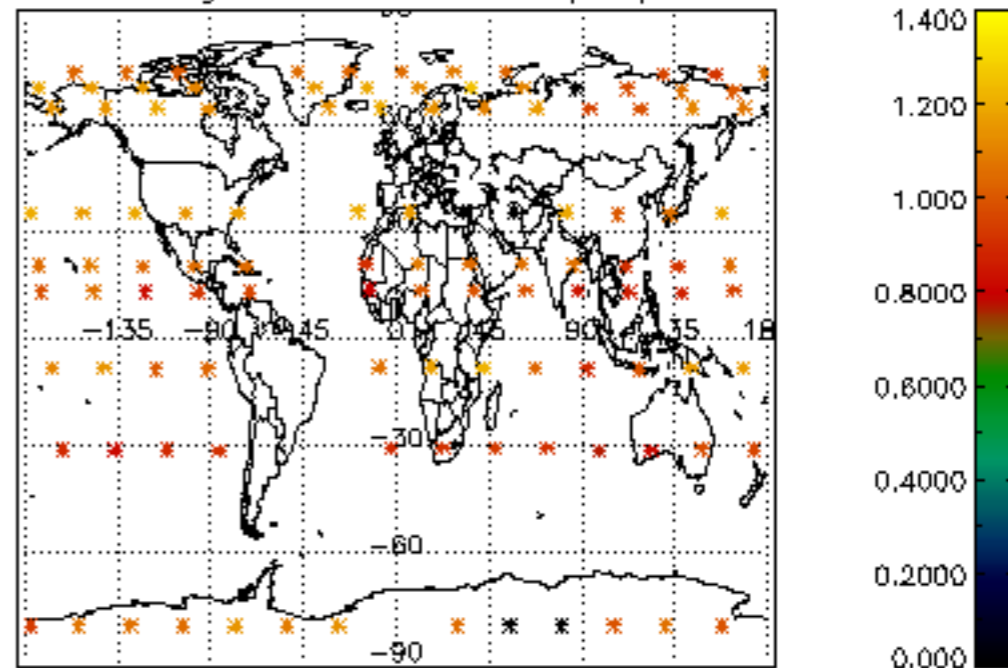




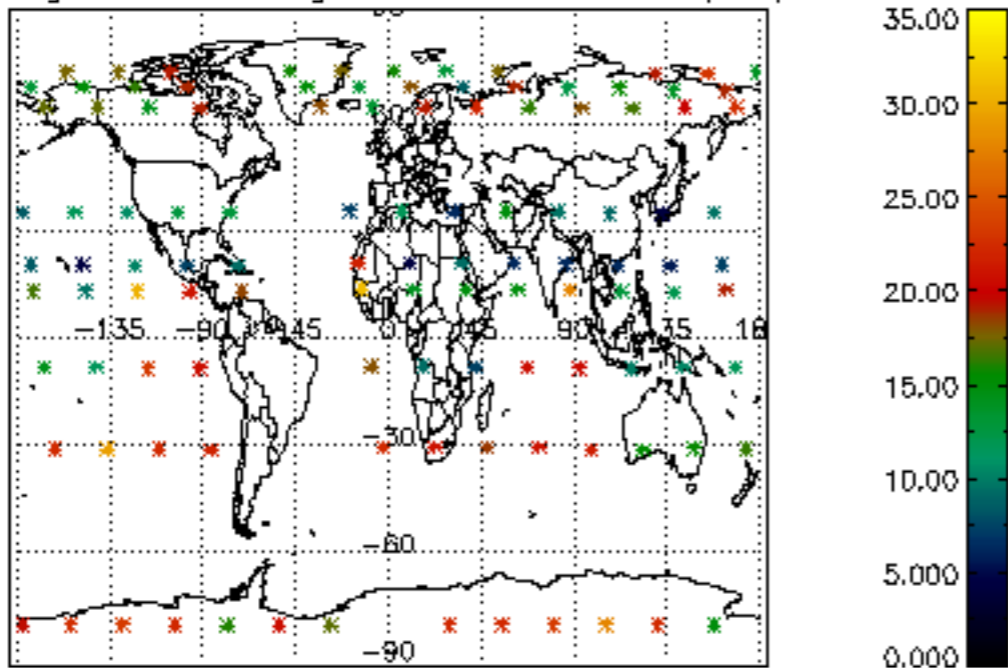
Percentage of cosmic ray hits per profile



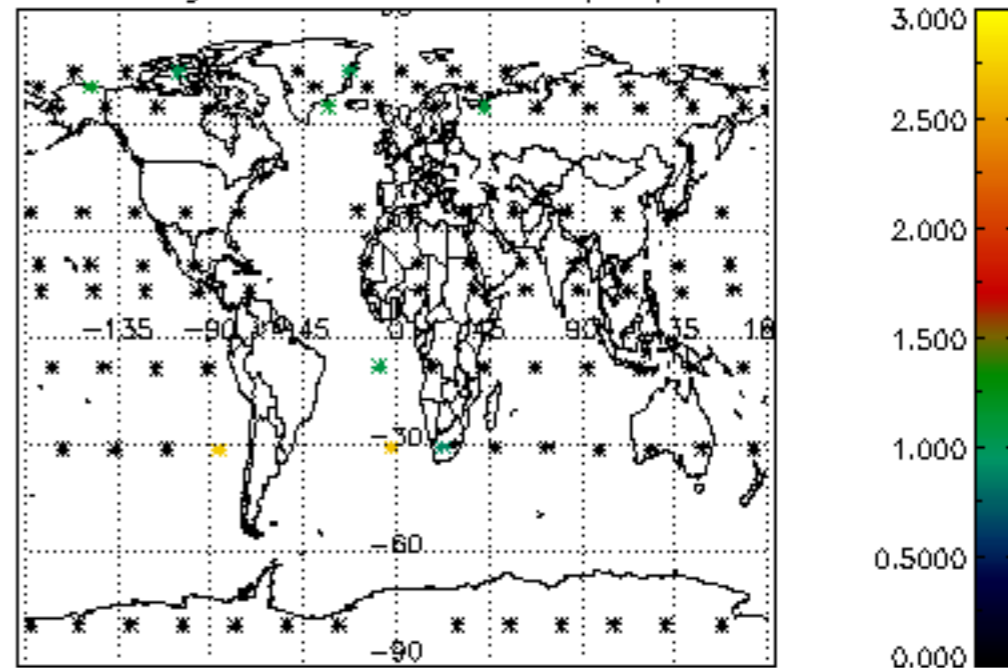
Percentage of datation errors per profile



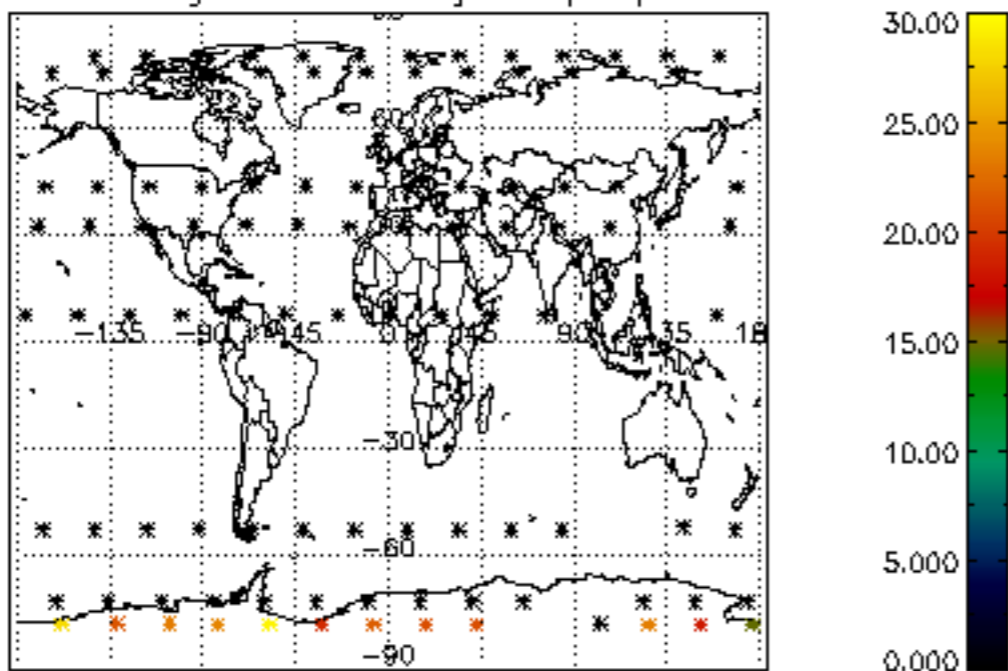
Percentage of star falling outside central band per profile



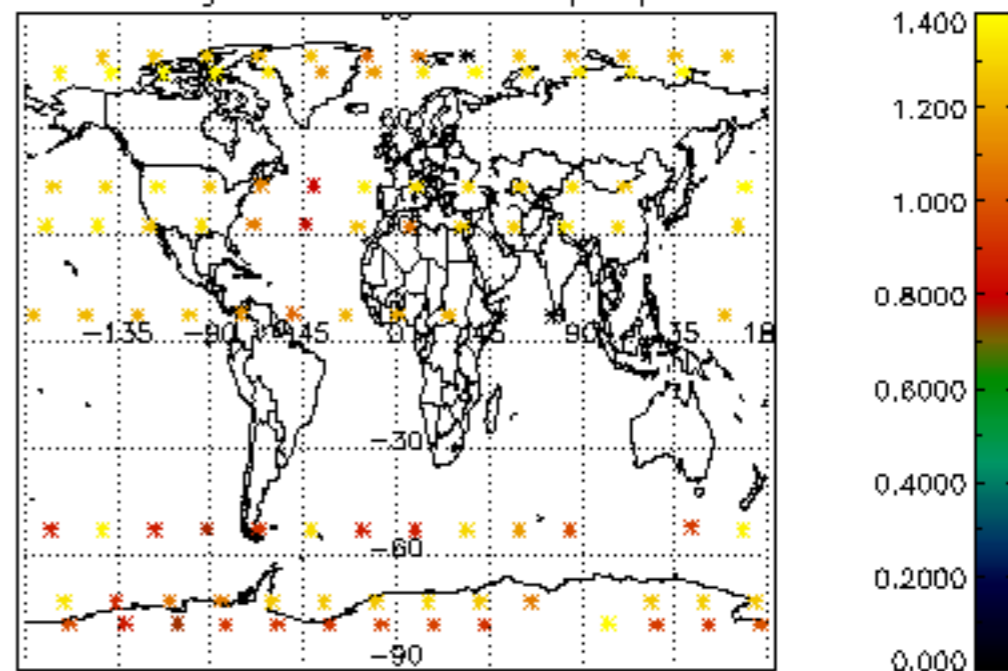
Percentage of saturation errors per profile



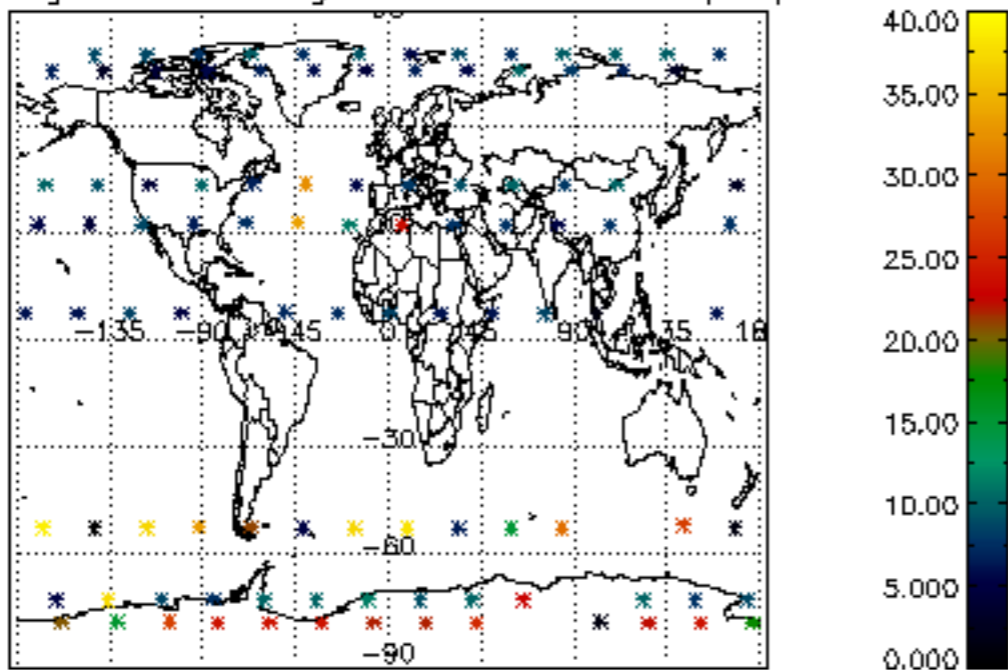
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

