

GOMOS Level 2 Daily Report

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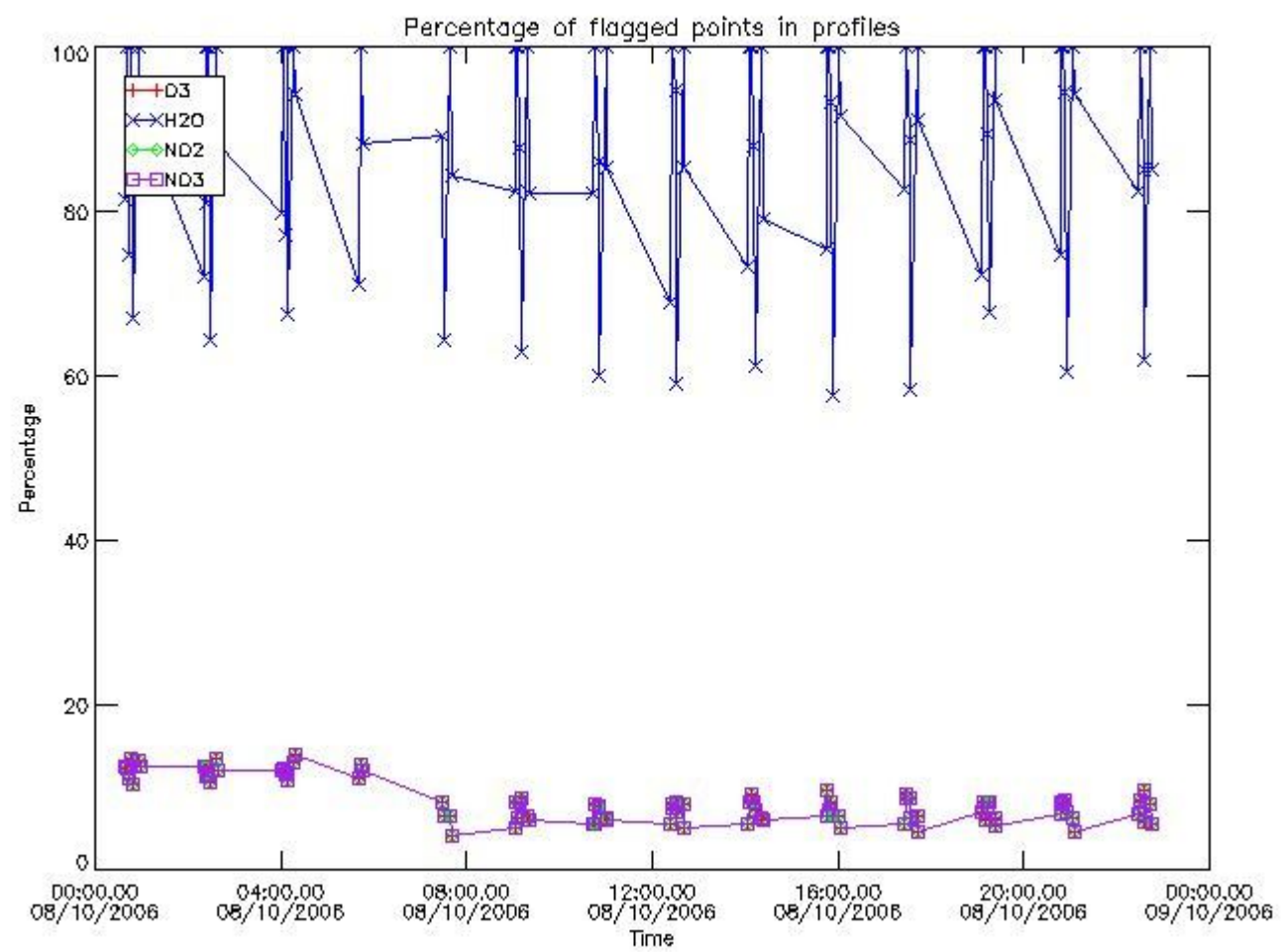
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This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	24APR2013 04:46:28
Data source version	GOMOS/6.01
Start time of products	08-10-2006 (08OCT2006 00:00:00)
Stop time of products	09-10-2006 (09OCT2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	267
Nb of prods with errors	0

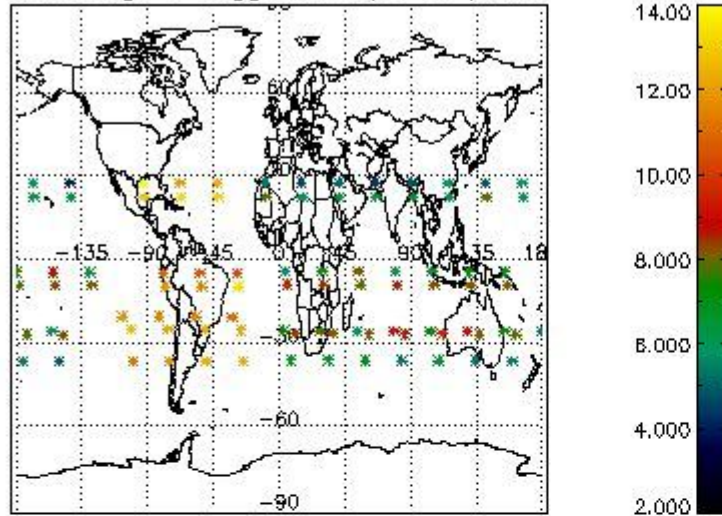
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20061008_000000_000000352051_00474_24075_2455.N1	08-OCT-2006 00:00:00	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	24075	No
2	GOM_NL__2PRFIN20061008_000807_000000372051_00474_24075_2456.N1	08-OCT-2006 00:08:07	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	24075	No
3	GOM_NL__2PRFIN20061008_000939_000000362051_00474_24075_2457.N1	08-OCT-2006 00:09:39	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	24075	No
4	GOM_NL__2PRFIN20061008_001256_000000362051_00474_24075_2458.N1	08-OCT-2006 00:12:56	Bright	36.000	174	52Psi UMa	3.0040	4400.0	72	24075	No
5	GOM_NL__2PRFIN20061008_001940_000000392051_00474_24075_2459.N1	08-OCT-2006 00:19:40	Bright	38.500	166	17Eps Leo	2.9800	6000.0	77	24075	No
6	GOM_NL__2PRFIN20061008_002248_000000362051_00474_24075_2460.N1	08-OCT-2006 00:22:48	Bright	35.500	22	32Alp Leo	1.3600	15200.	71	24075	No
7	GOM_NL__2PRFIN20061008_002938_000000502051_00474_24075_2461.N1	08-OCT-2006 00:29:38	Twilight	50.000	48	30Alp Hya	1.9770	4100.0	100	24075	No
8	GOM_NL__2PRFIN20061008_003917_000000412051_00474_24075_2462.N1	08-OCT-2006 00:39:17	Dark	41.000	65	Lam Vel	2.2040	4400.0	82	24075	No
9	GOM_NL__2PRFIN20061008_004209_000000422051_00474_24075_2463.N1	08-OCT-2006 00:42:09	Dark	41.500	34	Gam2Vel	1.7930	23000.	83	24075	No
10	GOM_NL__2PRFIN20061008_004406_000000462051_00475_24076_2445.N1	08-OCT-2006 00:44:06	Dark	46.000	41	Eps Car	1.8600	4100.0	92	24076	No
11	GOM_NL__2PRFIN20061008_004611_000000422051_00475_24076_2446.N1	08-OCT-2006 00:46:11	Dark	41.500	161	Tau Pup	2.9310	4500.0	83	24076	No
12	GOM_NL__2PRFIN20061008_004735_000000492051_00475_24076_2447.N1	08-OCT-2006 00:47:35	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	24076	No
13	GOM_NL__2PRFIN20061008_005616_000000392051_00475_24076_2448.N1	08-OCT-2006 00:56:16	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	24076	No
14	GOM_NL__2PRFIN20061008_005744_000000412051_00475_24076_2449.N1	08-OCT-2006 00:57:44	Dark	41.000	9	Alp Eri	0.45300	24000.	82	24076	No
15	GOM_NL__2PRFIN20061008_010256_000000422051_00475_24076_2450.N1	08-OCT-2006 01:02:56	Straylight	41.500	84	Alp Phe	2.3970	4500.0	83	24076	No
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17	GOM_NL__2PRFIN20061008_011939_000000382051_00475_24076_2452.N1	08-OCT-2006 01:19:39	Bright	38.000	140	88Gam Peg	2.8340	26000.	76	24076	No
18	GOM_NL__2PRFIN20061008_012320_000000352051_00475_24076_2453.N1	08-OCT-2006 01:23:20	Bright	35.000	93	53Bet Peg	2.5200	3100.0	70	24076	No
19	GOM_NL__2PRFIN20061008_013202_000000392051_00475_24076_2454.N1	08-OCT-2006 01:32:02	Bright	39.000	68	18Alp Cas	2.2250	4500.0	78	24076	No
20	GOM_NL__2PRFIN20061008_013327_000000382051_00475_24076_2455.N1	08-OCT-2006 01:33:27	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	24076	No
21	GOM_NL__2PRFIN20061008_014036_000000332051_00475_24076_2456.N1	08-OCT-2006 01:40:36	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	24076	No
22	GOM_NL__2PRFIN20061008_014843_000000372051_00475_24076_2457.N1	08-OCT-2006 01:48:43	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	24076	No
23	GOM_NL__2PRFIN20061008_015015_000000352051_00475_24076_2458.N1	08-OCT-2006 01:50:15	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	24076	No
24	GOM_NL__2PRFIN20061008_015332_000000342051_00475_24076_2459.N1	08-OCT-2006 01:53:32	Bright	33.500	174	52Psi UMa	3.0040	4400.0	67	24076	No
25	GOM_NL__2PRFIN20061008_020017_000000382051_00475_24076_2460.N1	08-OCT-2006 02:00:17	Bright	38.000	166	17Eps Leo	2.9800	6000.0	76	24076	No
26	GOM_NL__2PRFIN20061008_020324_000000332051_00475_24076_2461.N1	08-OCT-2006 02:03:24	Bright	33.000	22	32Alp Leo	1.3600	15200.	66	24076	No
27	GOM_NL__2PRFIN20061008_021014_000000492051_00475_24076_2462.N1	08-OCT-2006 02:10:14	Twilight	49.000	48	30Alp Hya	1.9770	4100.0	98	24076	No
28	GOM_NL__2PRFIN20061008_021953_000000452051_00475_24076_2463.N1	08-OCT-2006 02:19:53	Dark	45.000	65	Lam Vel	2.2040	4400.0	90	24076	No
29	GOM_NL__2PRFIN20061008_022245_000000412051_00475_24076_2464.N1	08-OCT-2006 02:22:45	Dark	41.000	34	Gam2Vel	1.7930	23000.	82	24076	No
30	GOM_NL__2PRFIN20061008_022442_000000452051_00476_24077_2446.N1	08-OCT-2006 02:24:42	Dark	45.000	41	Eps Car	1.8600	4100.0	90	24077	No
31	GOM_NL__2PRFIN20061008_022648_000000442051_00476_24077_2447.N1	08-OCT-2006 02:26:48	Dark	44.000	161	Tau Pup	2.9310	4500.0	88	24077	No
32	GOM_NL__2PRFIN20061008_022812_000000482051_00476_24077_2448.N1	08-OCT-2006 02:28:12	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	24077	No
33	GOM_NL__2PRFIN20061008_023653_000000382051_00476_24077_2449.N1	08-OCT-2006 02:36:53	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	24077	No
34	GOM_NL__2PRFIN20061008_023820_000000432051_00476_24077_2450.N1	08-OCT-2006 02:38:20	Dark	42.500	9	Alp Eri	0.45300	24000.	85	24077	No
35	GOM_NL__2PRFIN20061008_024332_000000392051_00476_24077_2451.N1	08-OCT-2006 02:43:32	Straylight	38.500	84	Alp Phe	2.3970	4500.0	77	24077	No
36	GOM_NL__2PRFIN20061008_025016_000000472051_00476_24077_2452.N1	08-OCT-2006 02:50:16	Straylight	46.500	52	16Bet Cet	2.0370	4500.0	93	24077	No
37	GOM_NL__2PRFIN20061008_030015_000000382051_00476_24077_2453.N1	08-OCT-2006 03:00:15	Bright	37.500	140	88Gam Peg	2.8340	26000.	75	24077	No
38	GOM_NL__2PRFIN20061008_030356_000000372051_00476_24077_2454.N1	08-OCT-2006 03:03:56	Bright	37.000	93	53Bet Peg	2.5200	3100.0	74	24077	No
39	GOM_NL__2PRFIN20061008_031238_000000392051_00476_24077_2455.N1	08-OCT-2006 03:12:38	Bright	38.500	68	18Alp Cas	2.2250	4500.0	77	24077	No
40	GOM_NL__2PRFIN20061008_031402_000000362051_00476_24077_2456.N1	08-OCT-2006 03:14:02	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	24077	No
41	GOM_NL__2PRFIN20061008_032112_000000372051_00476_24077_2457.N1	08-OCT-2006 03:21:12	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	24077	No
42	GOM_NL__2PRFIN20061008_032919_000000372051_00476_24077_2458.N1	08-OCT-2006 03:29:19	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	24077	No

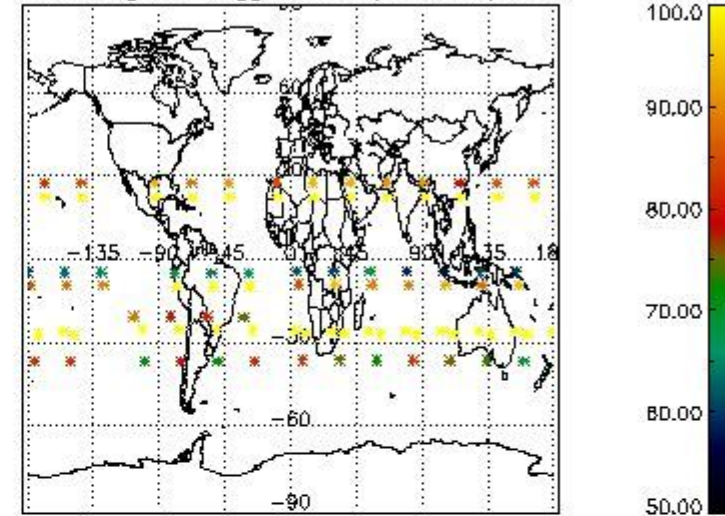


3.2 Plot quality information per product (world map)

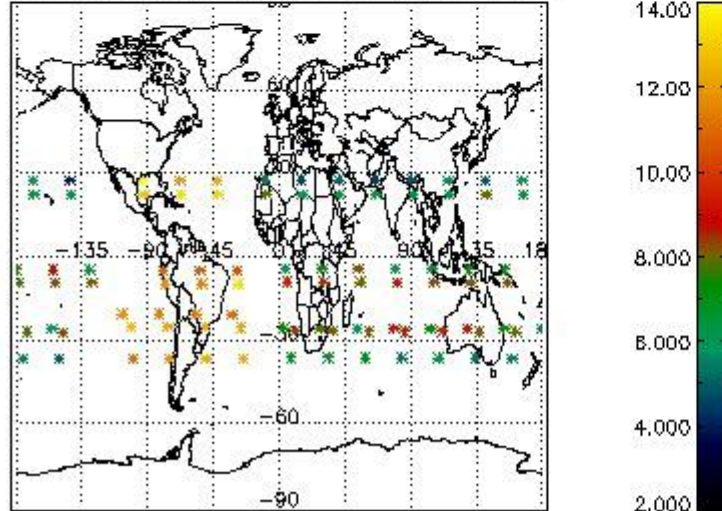
Percentage of flagged data per O3 profile



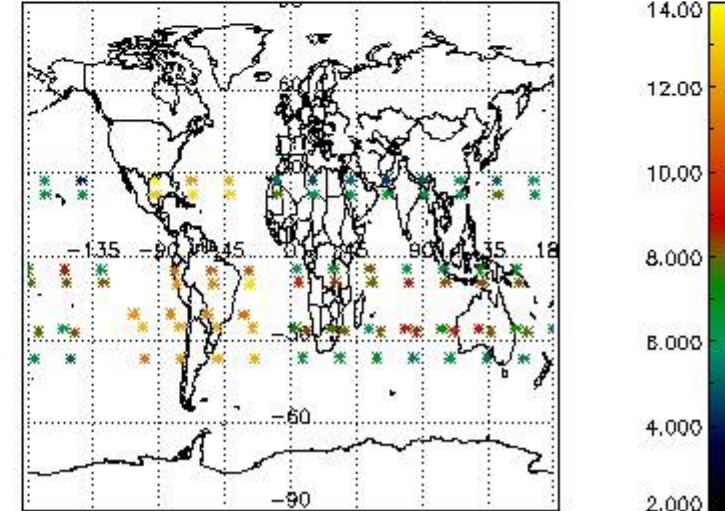
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

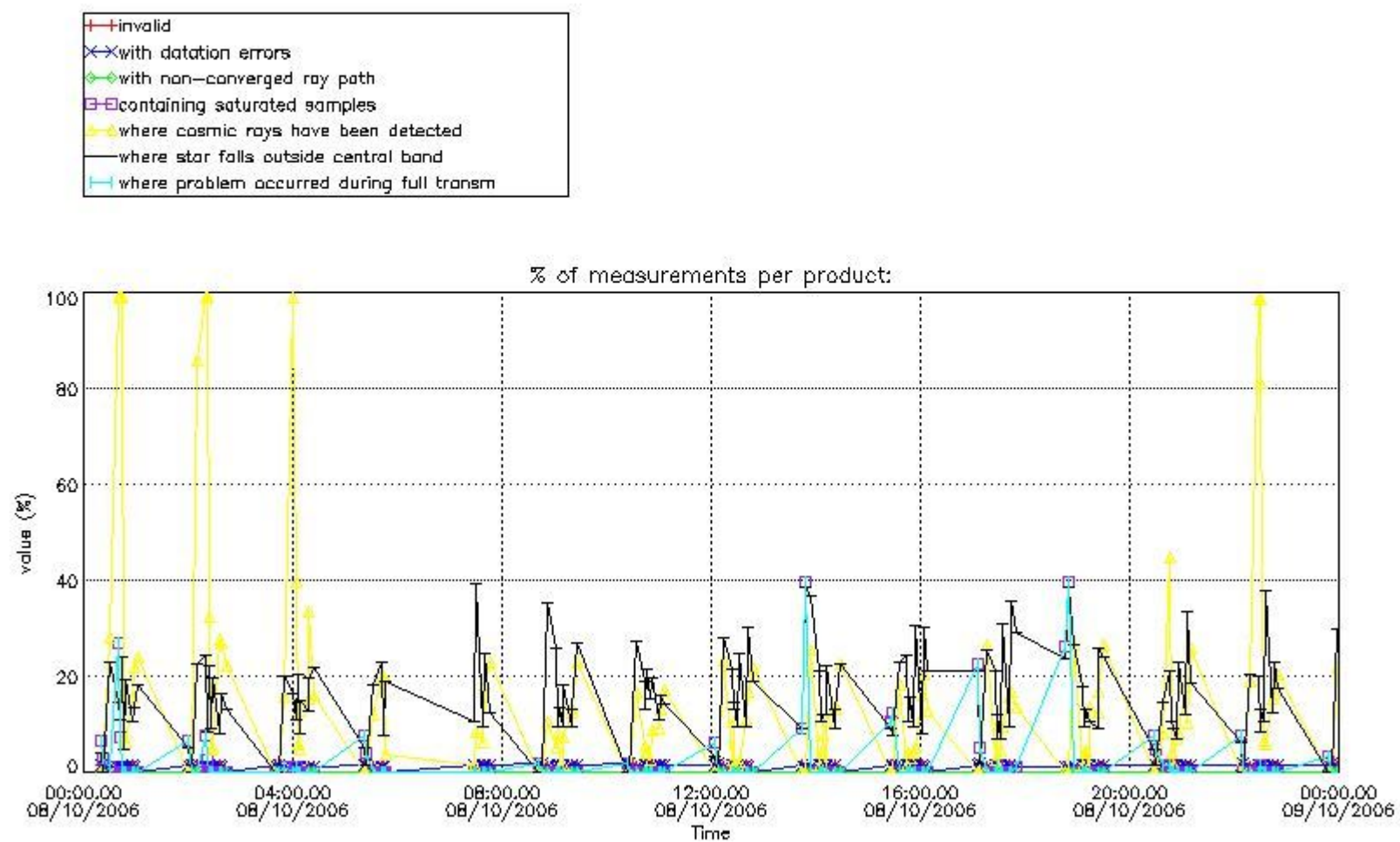


4. Level 1 quality information per product

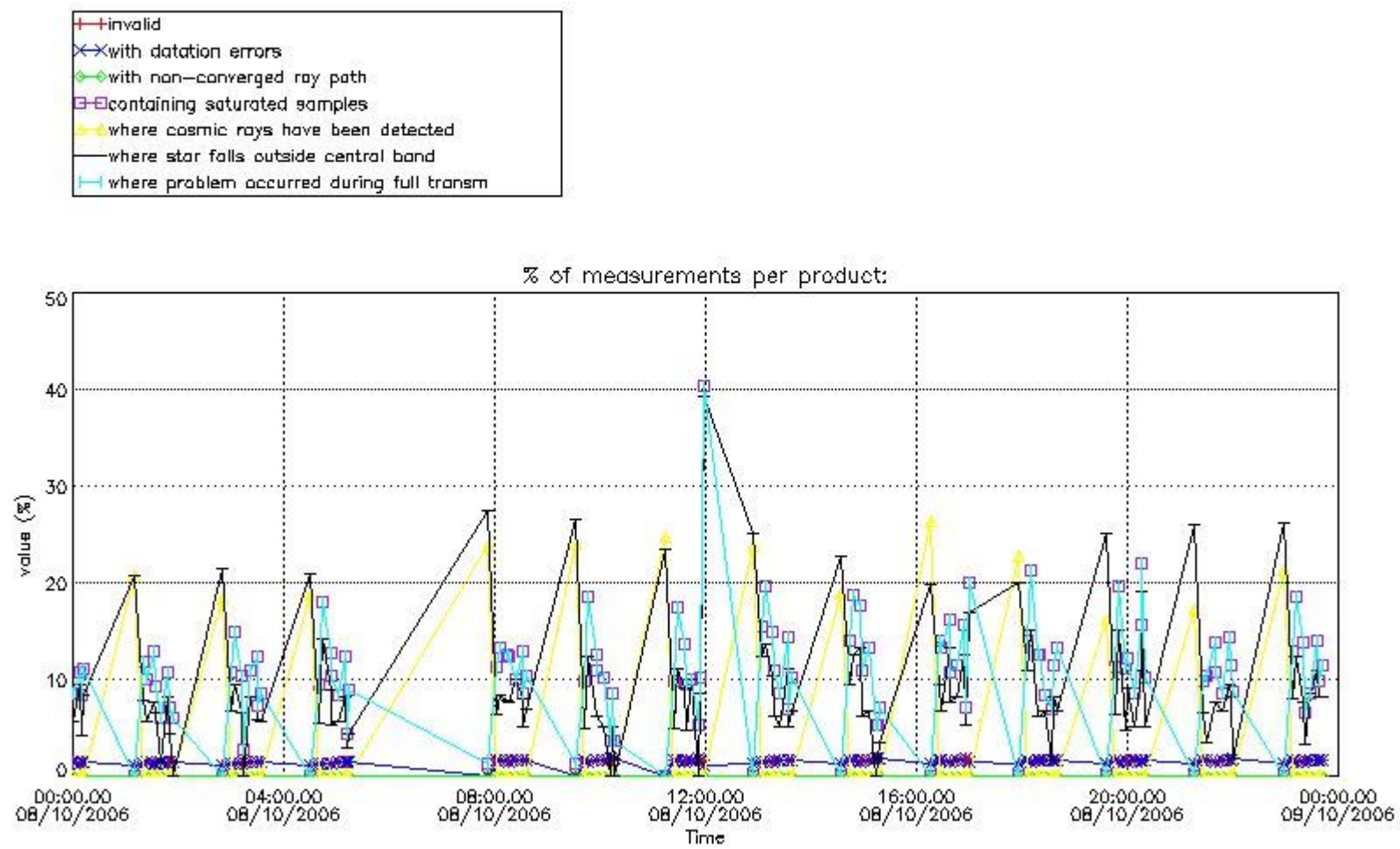
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



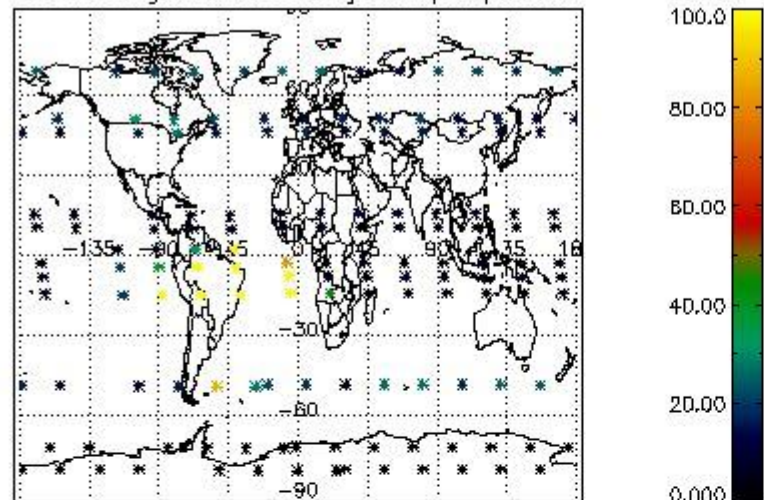
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



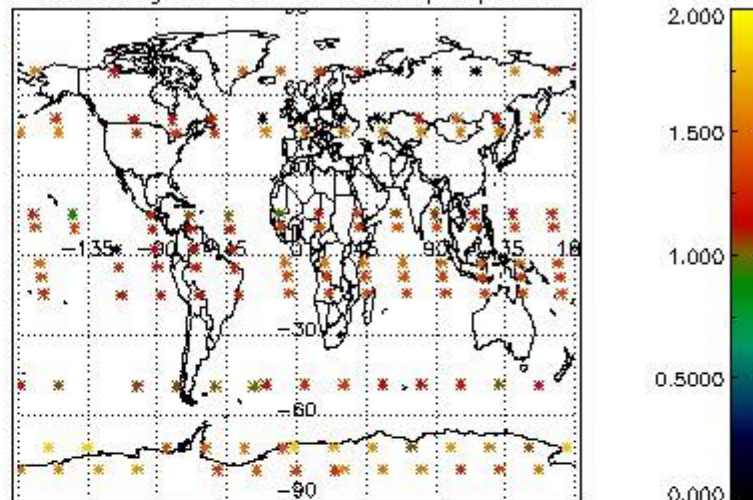
4.2 Plot quality information per product coming from level 1b processing (world map)

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

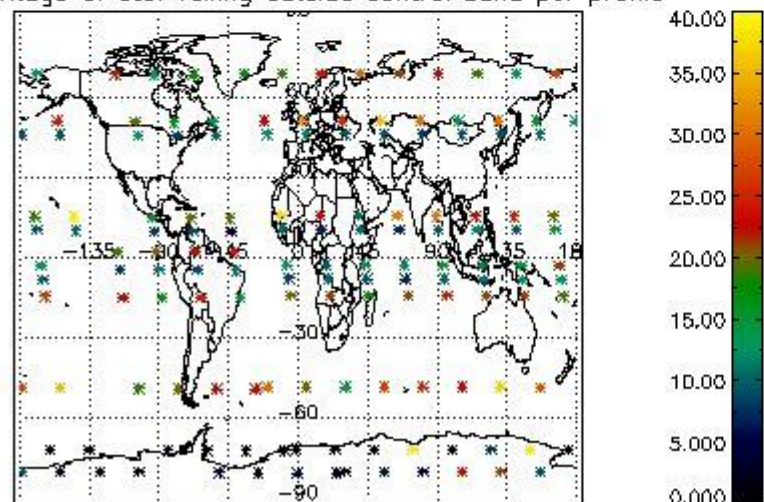
Percentage of cosmic ray hits per profile



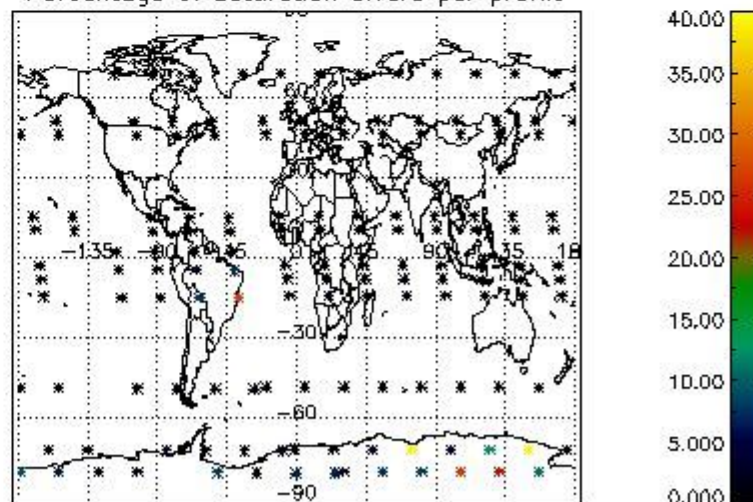
Percentage of datation errors per profile



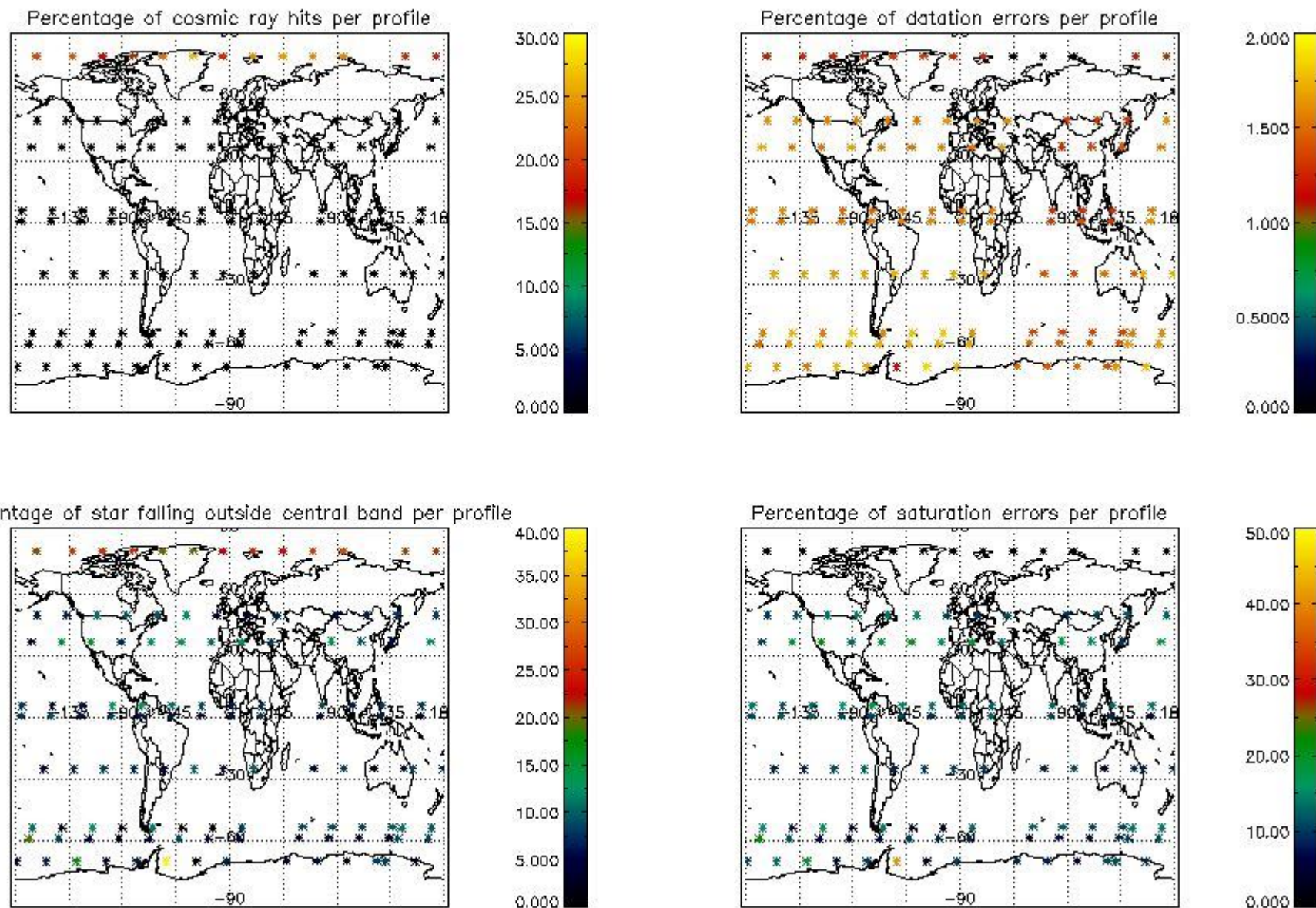
Percentage of star falling outside central band per profile



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

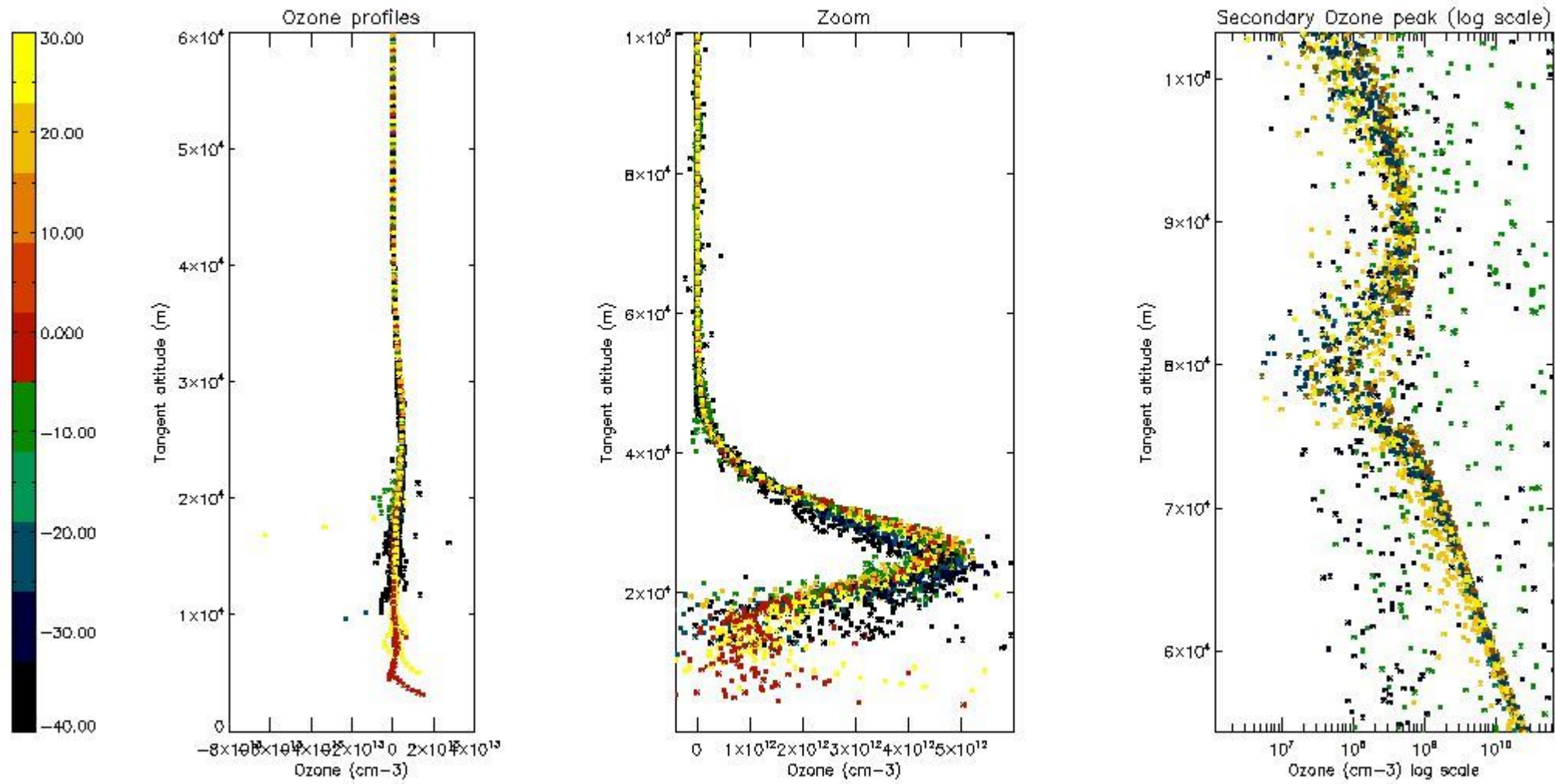
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	37
STD < 20	22

STD < 10	17
STD < 5	11

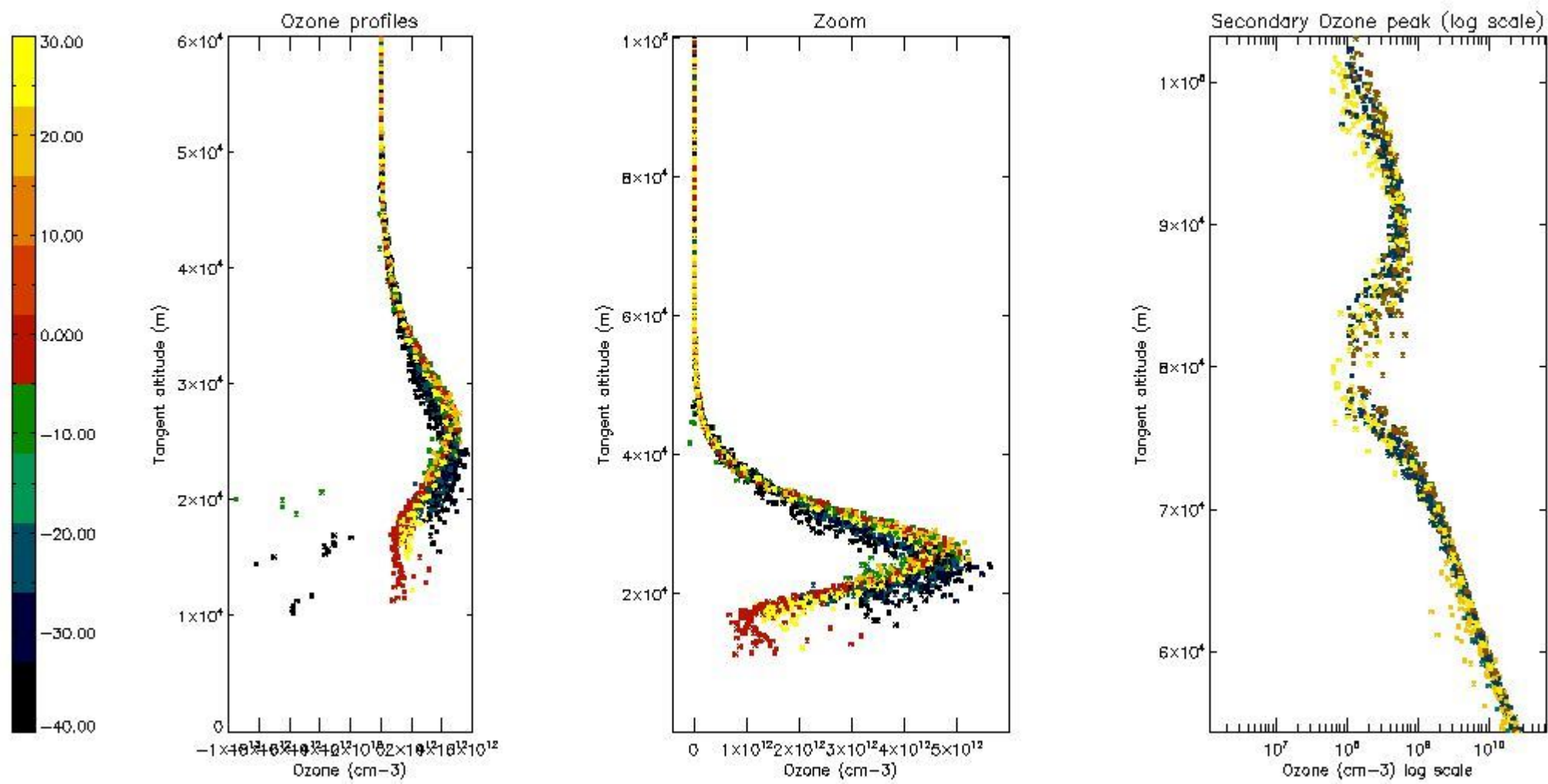
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



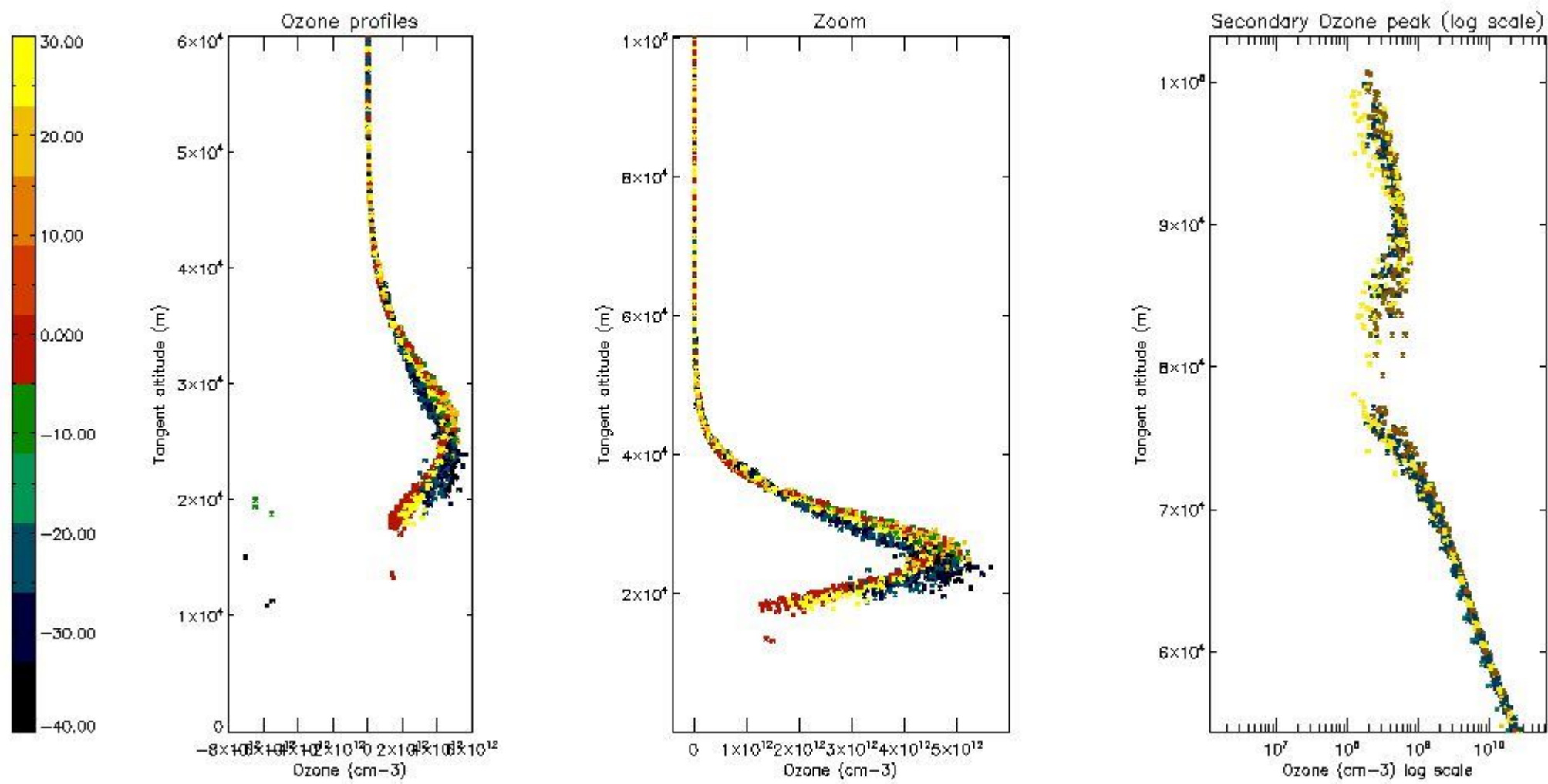
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



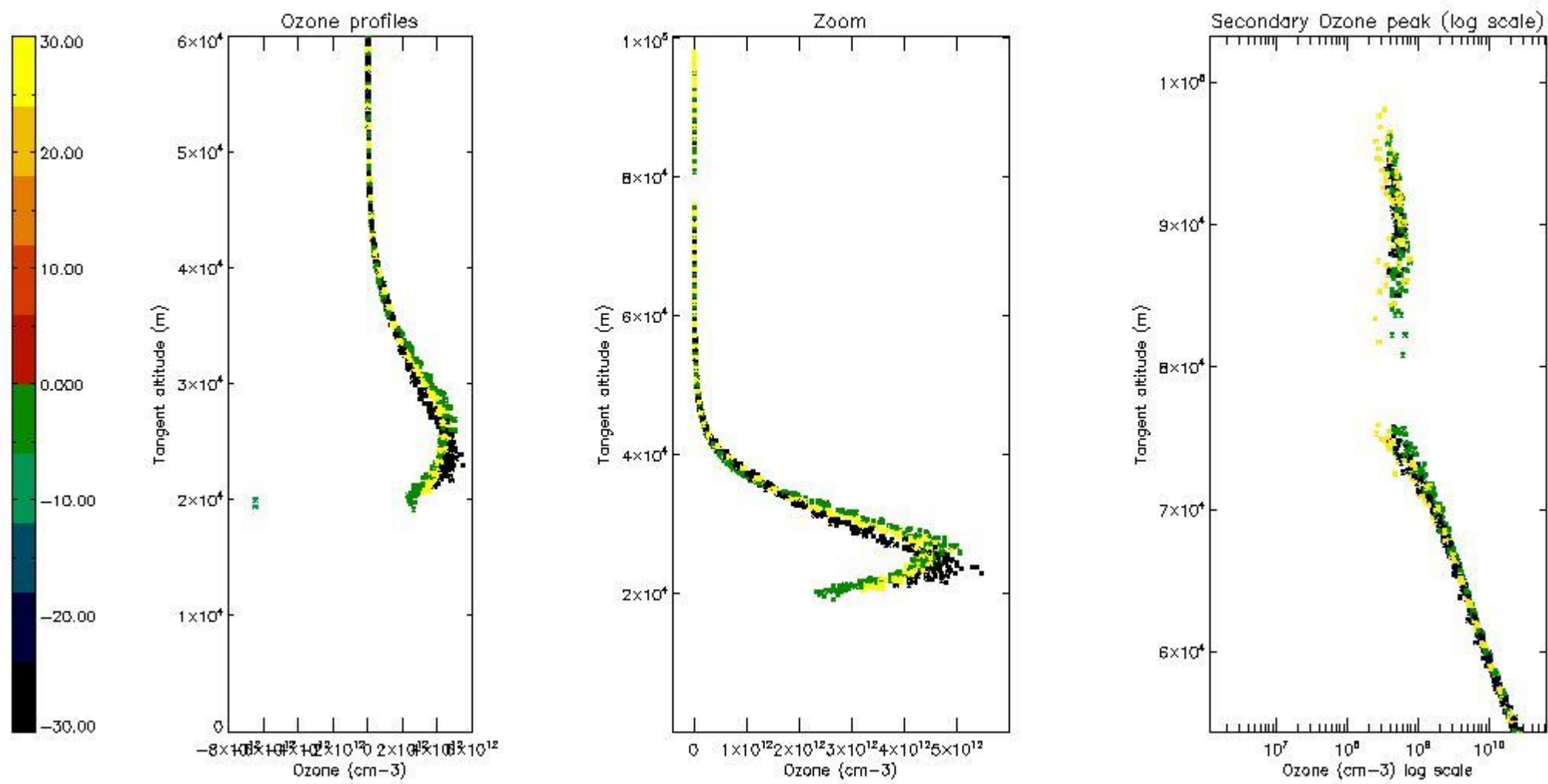
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



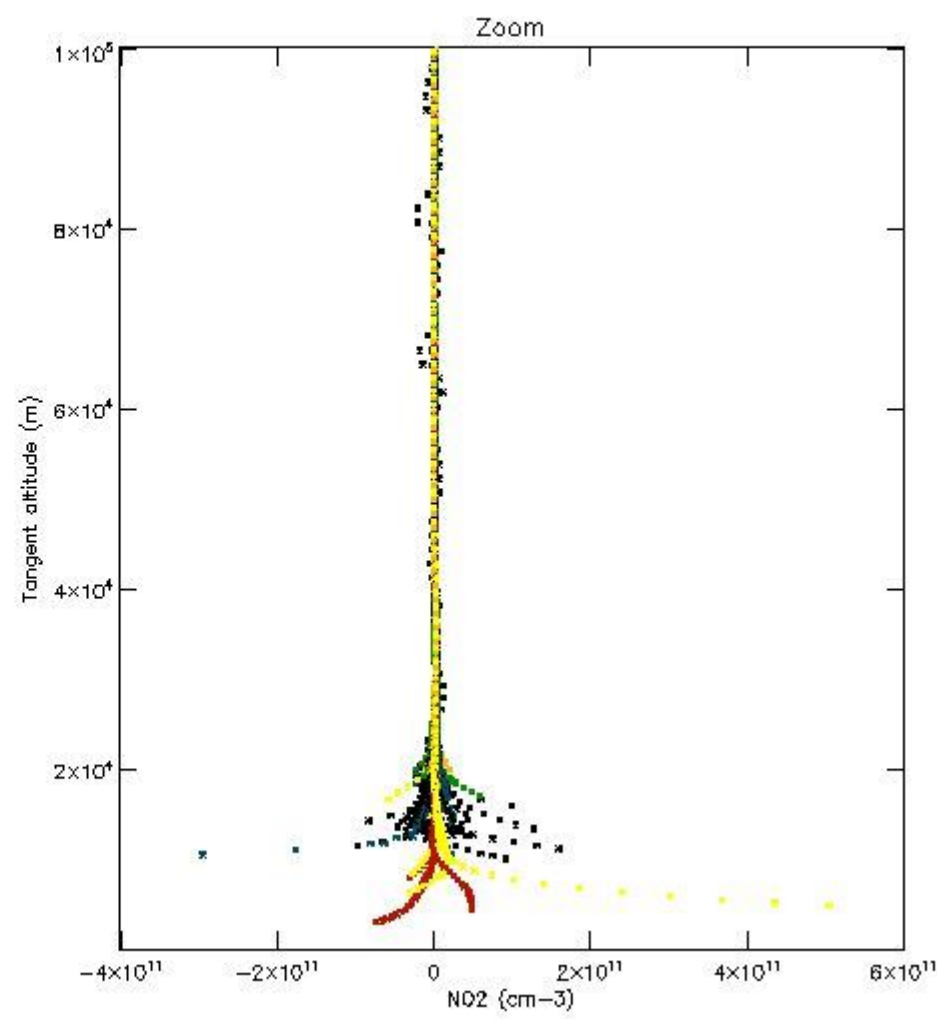
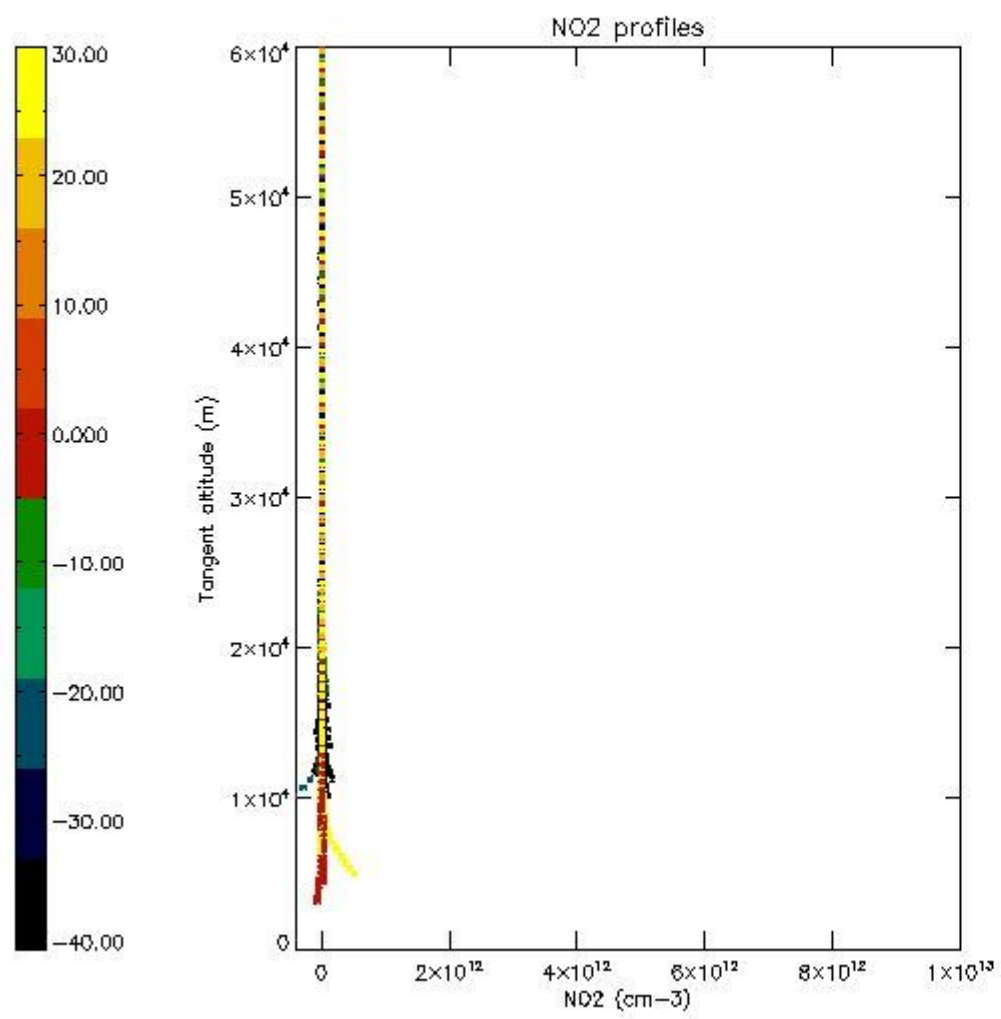
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



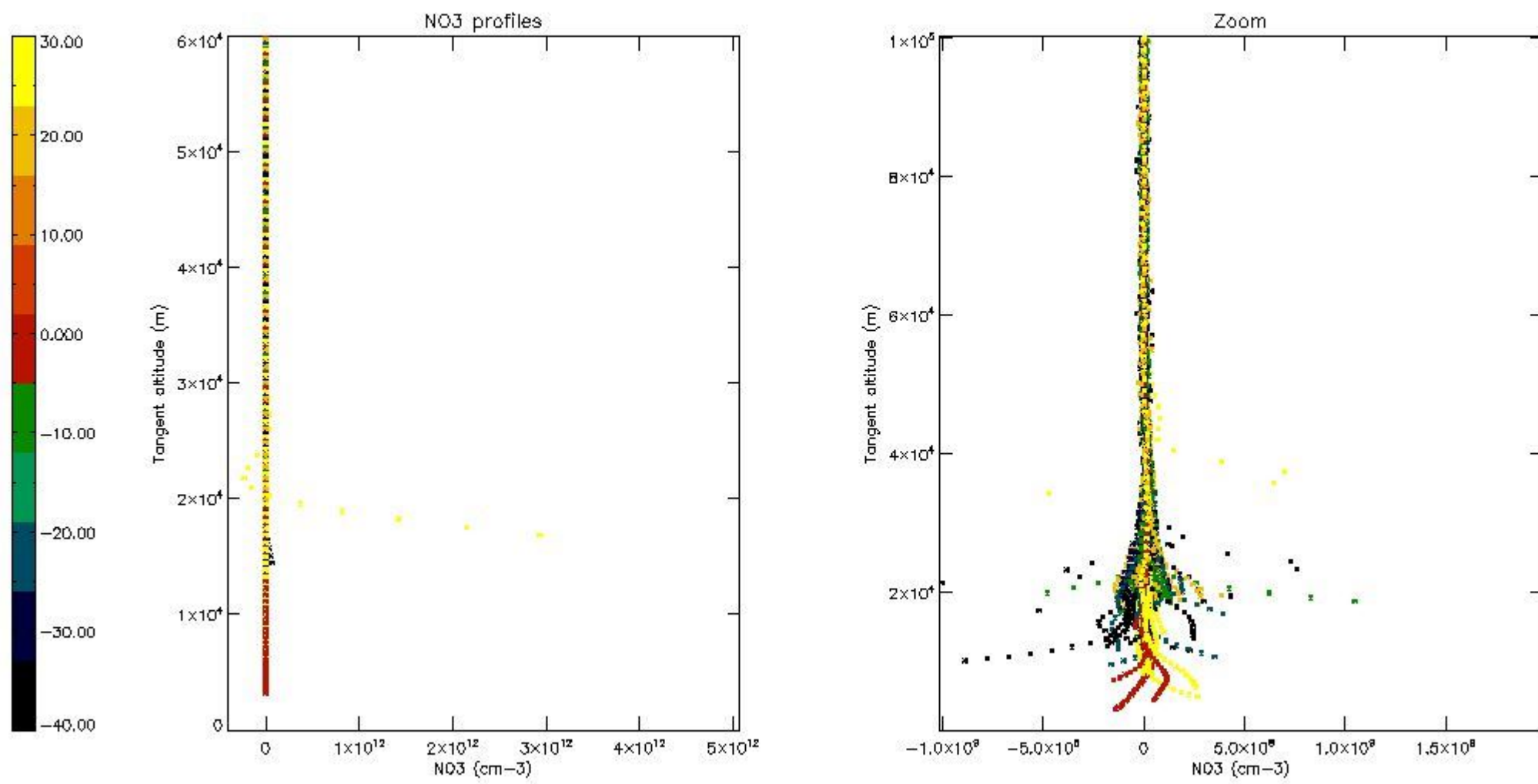
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



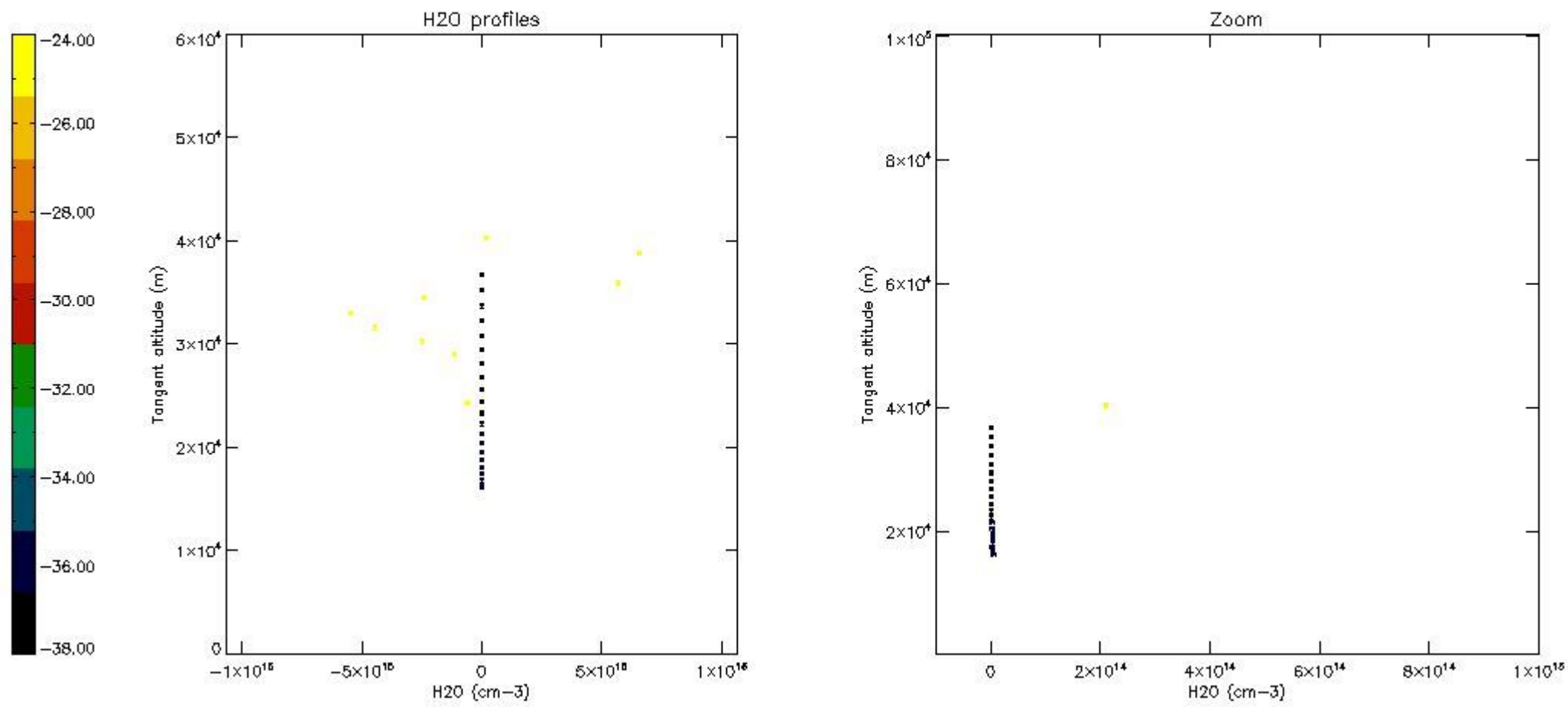
5.7 Plot NO3 profiles for all STD (dark without errors)

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	08-OCT-2006 00:00:00
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	08-OCT-2006 00:00:00
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	08-OCT-2006 00:00:00

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[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](#)

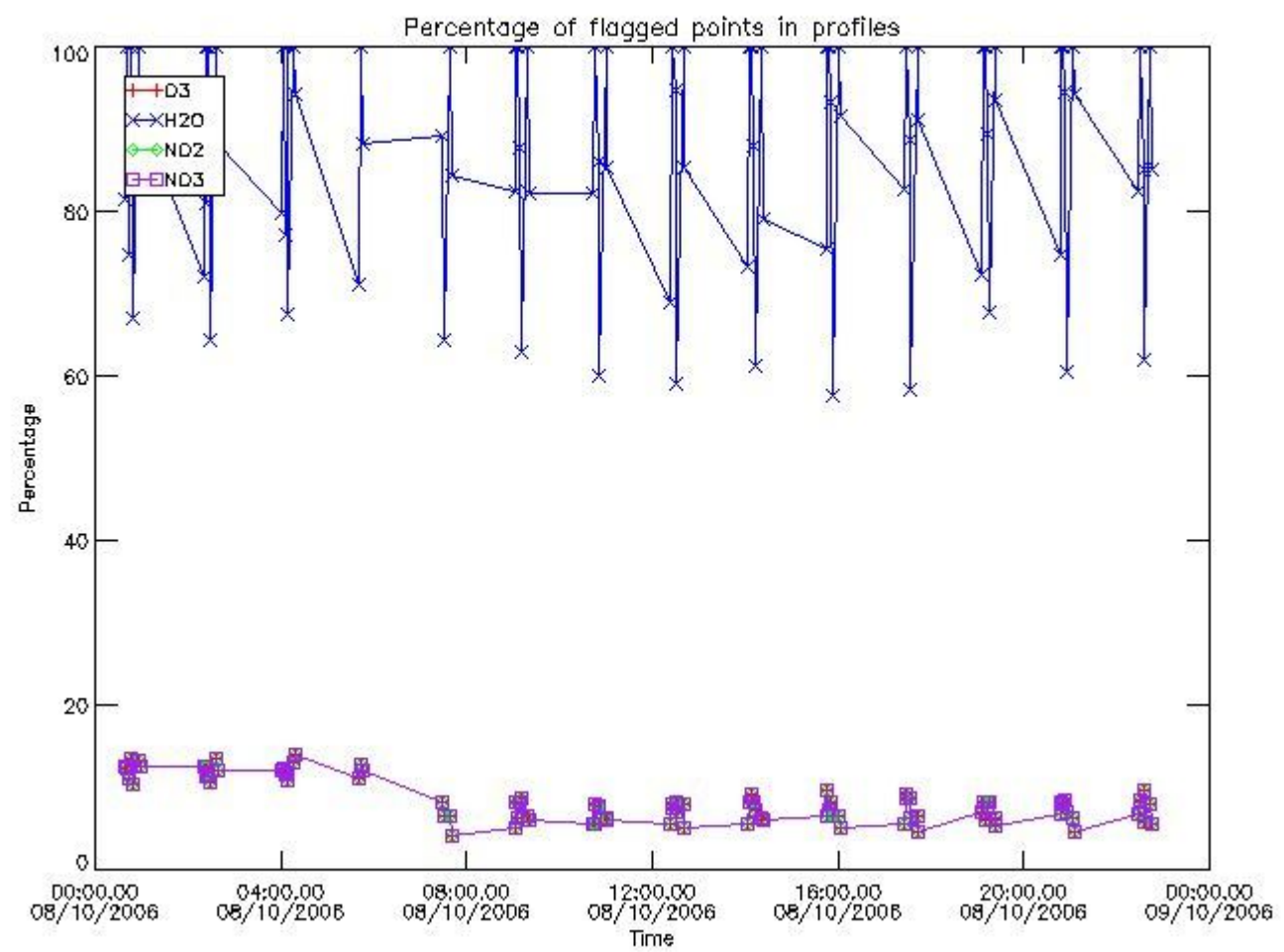
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This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	24APR2013 04:46:28
Data source version	GOMOS/6.01
Start time of products	08-10-2006 (08OCT2006 00:00:00)
Stop time of products	09-10-2006 (09OCT2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	267
Nb of prods with errors	0

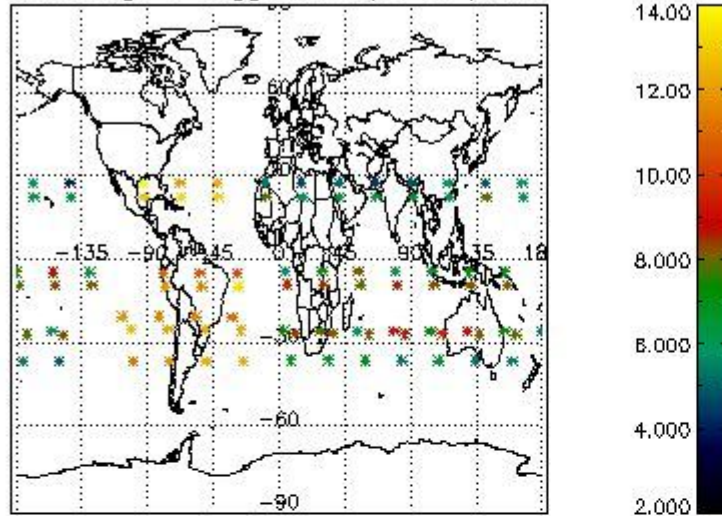
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20061008_000000_000000352051_00474_24075_2455.N1	08-OCT-2006 00:00:00	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	24075	No
2	GOM_NL__2PRFIN20061008_000807_000000372051_00474_24075_2456.N1	08-OCT-2006 00:08:07	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	24075	No
3	GOM_NL__2PRFIN20061008_000939_000000362051_00474_24075_2457.N1	08-OCT-2006 00:09:39	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	24075	No
4	GOM_NL__2PRFIN20061008_001256_000000362051_00474_24075_2458.N1	08-OCT-2006 00:12:56	Bright	36.000	174	52Psi UMa	3.0040	4400.0	72	24075	No
5	GOM_NL__2PRFIN20061008_001940_000000392051_00474_24075_2459.N1	08-OCT-2006 00:19:40	Bright	38.500	166	17Eps Leo	2.9800	6000.0	77	24075	No
6	GOM_NL__2PRFIN20061008_002248_000000362051_00474_24075_2460.N1	08-OCT-2006 00:22:48	Bright	35.500	22	32Alp Leo	1.3600	15200.	71	24075	No
7	GOM_NL__2PRFIN20061008_002938_000000502051_00474_24075_2461.N1	08-OCT-2006 00:29:38	Twilight	50.000	48	30Alp Hya	1.9770	4100.0	100	24075	No
8	GOM_NL__2PRFIN20061008_003917_000000412051_00474_24075_2462.N1	08-OCT-2006 00:39:17	Dark	41.000	65	Lam Vel	2.2040	4400.0	82	24075	No
9	GOM_NL__2PRFIN20061008_004209_000000422051_00474_24075_2463.N1	08-OCT-2006 00:42:09	Dark	41.500	34	Gam2Vel	1.7930	23000.	83	24075	No
10	GOM_NL__2PRFIN20061008_004406_000000462051_00475_24076_2445.N1	08-OCT-2006 00:44:06	Dark	46.000	41	Eps Car	1.8600	4100.0	92	24076	No
11	GOM_NL__2PRFIN20061008_004611_000000422051_00475_24076_2446.N1	08-OCT-2006 00:46:11	Dark	41.500	161	Tau Pup	2.9310	4500.0	83	24076	No
12	GOM_NL__2PRFIN20061008_004735_000000492051_00475_24076_2447.N1	08-OCT-2006 00:47:35	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	24076	No
13	GOM_NL__2PRFIN20061008_005616_000000392051_00475_24076_2448.N1	08-OCT-2006 00:56:16	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	24076	No
14	GOM_NL__2PRFIN20061008_005744_000000412051_00475_24076_2449.N1	08-OCT-2006 00:57:44	Dark	41.000	9	Alp Eri	0.45300	24000.	82	24076	No
15	GOM_NL__2PRFIN20061008_010256_000000422051_00475_24076_2450.N1	08-OCT-2006 01:02:56	Straylight	41.500	84	Alp Phe	2.3970	4500.0	83	24076	No
16	GOM_NL__2PRFIN20061008_010940_000000462051_00475_24076_2451.N1	08-OCT-2006 01:09:40	Straylight	46.000	52	16Bet Cet	2.0370	4500.0	92	24076	No
17	GOM_NL__2PRFIN20061008_011939_000000382051_00475_24076_2452.N1	08-OCT-2006 01:19:39	Bright	38.000	140	88Gam Peg	2.8340	26000.	76	24076	No
18	GOM_NL__2PRFIN20061008_012320_000000352051_00475_24076_2453.N1	08-OCT-2006 01:23:20	Bright	35.000	93	53Bet Peg	2.5200	3100.0	70	24076	No
19	GOM_NL__2PRFIN20061008_013202_000000392051_00475_24076_2454.N1	08-OCT-2006 01:32:02	Bright	39.000	68	18Alp Cas	2.2250	4500.0	78	24076	No
20	GOM_NL__2PRFIN20061008_013327_000000382051_00475_24076_2455.N1	08-OCT-2006 01:33:27	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	24076	No
21	GOM_NL__2PRFIN20061008_014036_000000332051_00475_24076_2456.N1	08-OCT-2006 01:40:36	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	24076	No
22	GOM_NL__2PRFIN20061008_014843_000000372051_00475_24076_2457.N1	08-OCT-2006 01:48:43	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	24076	No
23	GOM_NL__2PRFIN20061008_015015_000000352051_00475_24076_2458.N1	08-OCT-2006 01:50:15	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	24076	No
24	GOM_NL__2PRFIN20061008_015332_000000342051_00475_24076_2459.N1	08-OCT-2006 01:53:32	Bright	33.500	174	52Psi UMa	3.0040	4400.0	67	24076	No
25	GOM_NL__2PRFIN20061008_020017_000000382051_00475_24076_2460.N1	08-OCT-2006 02:00:17	Bright	38.000	166	17Eps Leo	2.9800	6000.0	76	24076	No
26	GOM_NL__2PRFIN20061008_020324_000000332051_00475_24076_2461.N1	08-OCT-2006 02:03:24	Bright	33.000	22	32Alp Leo	1.3600	15200.	66	24076	No
27	GOM_NL__2PRFIN20061008_021014_000000492051_00475_24076_2462.N1	08-OCT-2006 02:10:14	Twilight	49.000	48	30Alp Hya	1.9770	4100.0	98	24076	No
28	GOM_NL__2PRFIN20061008_021953_000000452051_00475_24076_2463.N1	08-OCT-2006 02:19:53	Dark	45.000	65	Lam Vel	2.2040	4400.0	90	24076	No
29	GOM_NL__2PRFIN20061008_022245_000000412051_00475_24076_2464.N1	08-OCT-2006 02:22:45	Dark	41.000	34	Gam2Vel	1.7930	23000.	82	24076	No
30	GOM_NL__2PRFIN20061008_022442_000000452051_00476_24077_2446.N1	08-OCT-2006 02:24:42	Dark	45.000	41	Eps Car	1.8600	4100.0	90	24077	No
31	GOM_NL__2PRFIN20061008_022648_000000442051_00476_24077_2447.N1	08-OCT-2006 02:26:48	Dark	44.000	161	Tau Pup	2.9310	4500.0	88	24077	No
32	GOM_NL__2PRFIN20061008_022812_000000482051_00476_24077_2448.N1	08-OCT-2006 02:28:12	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	24077	No
33	GOM_NL__2PRFIN20061008_023653_000000382051_00476_24077_2449.N1	08-OCT-2006 02:36:53	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	24077	No
34	GOM_NL__2PRFIN20061008_023820_000000432051_00476_24077_2450.N1	08-OCT-2006 02:38:20	Dark	42.500	9	Alp Eri	0.45300	24000.	85	24077	No
35	GOM_NL__2PRFIN20061008_024332_000000392051_00476_24077_2451.N1	08-OCT-2006 02:43:32	Straylight	38.500	84	Alp Phe	2.3970	4500.0	77	24077	No
36	GOM_NL__2PRFIN20061008_025016_000000472051_00476_24077_2452.N1	08-OCT-2006 02:50:16	Straylight	46.500	52	16Bet Cet	2.0370	4500.0	93	24077	No
37	GOM_NL__2PRFIN20061008_030015_000000382051_00476_24077_2453.N1	08-OCT-2006 03:00:15	Bright	37.500	140	88Gam Peg	2.8340	26000.	75	24077	No
38	GOM_NL__2PRFIN20061008_030356_000000372051_00476_24077_2454.N1	08-OCT-2006 03:03:56	Bright	37.000	93	53Bet Peg	2.5200	3100.0	74	24077	No
39	GOM_NL__2PRFIN20061008_031238_000000392051_00476_24077_2455.N1	08-OCT-2006 03:12:38	Bright	38.500	68	18Alp Cas	2.2250	4500.0	77	24077	No
40	GOM_NL__2PRFIN20061008_031402_000000362051_00476_24077_2456.N1	08-OCT-2006 03:14:02	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	24077	No
41	GOM_NL__2PRFIN20061008_032112_000000372051_00476_24077_2457.N1	08-OCT-2006 03:21:12	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	24077	No
42	GOM_NL__2PRFIN20061008_032919_000000372051_00476_24077_2458.N1	08-OCT-2006 03:29:19	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	24077	No

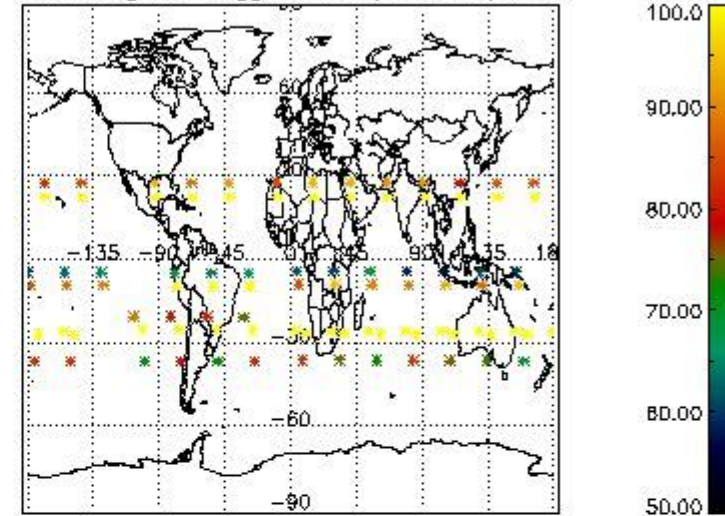


3.2 Plot quality information per product (world map)

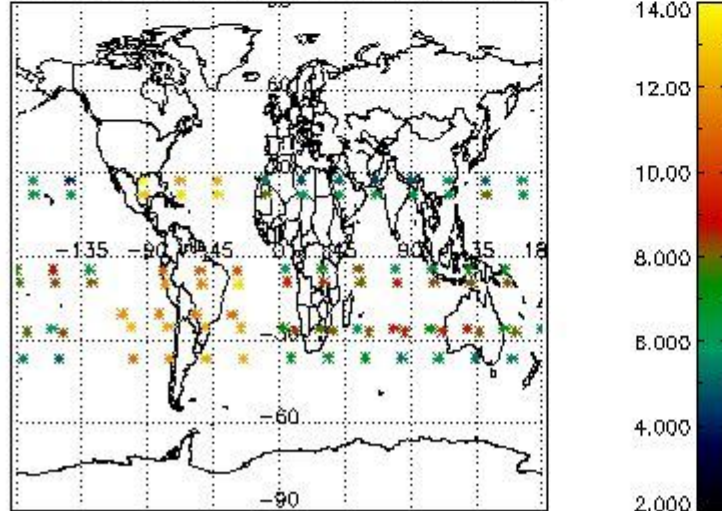
Percentage of flagged data per O3 profile



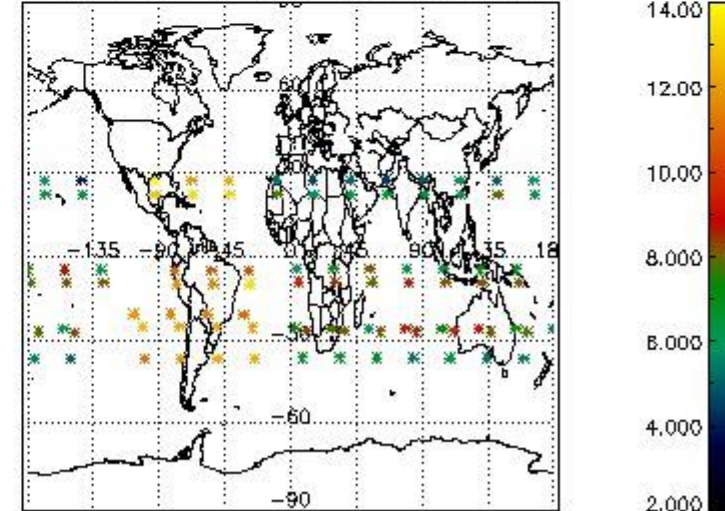
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

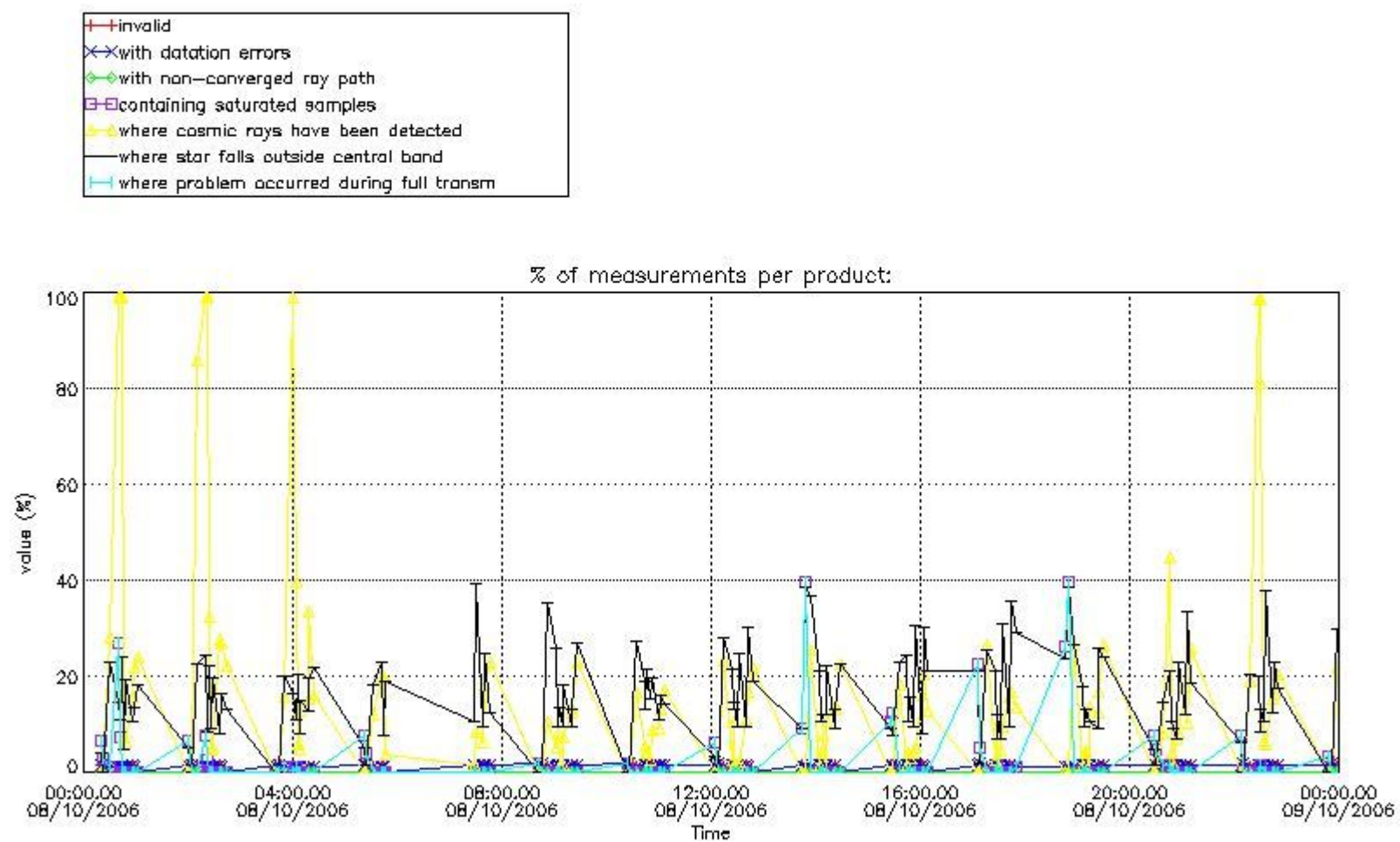


4. Level 1 quality information per product

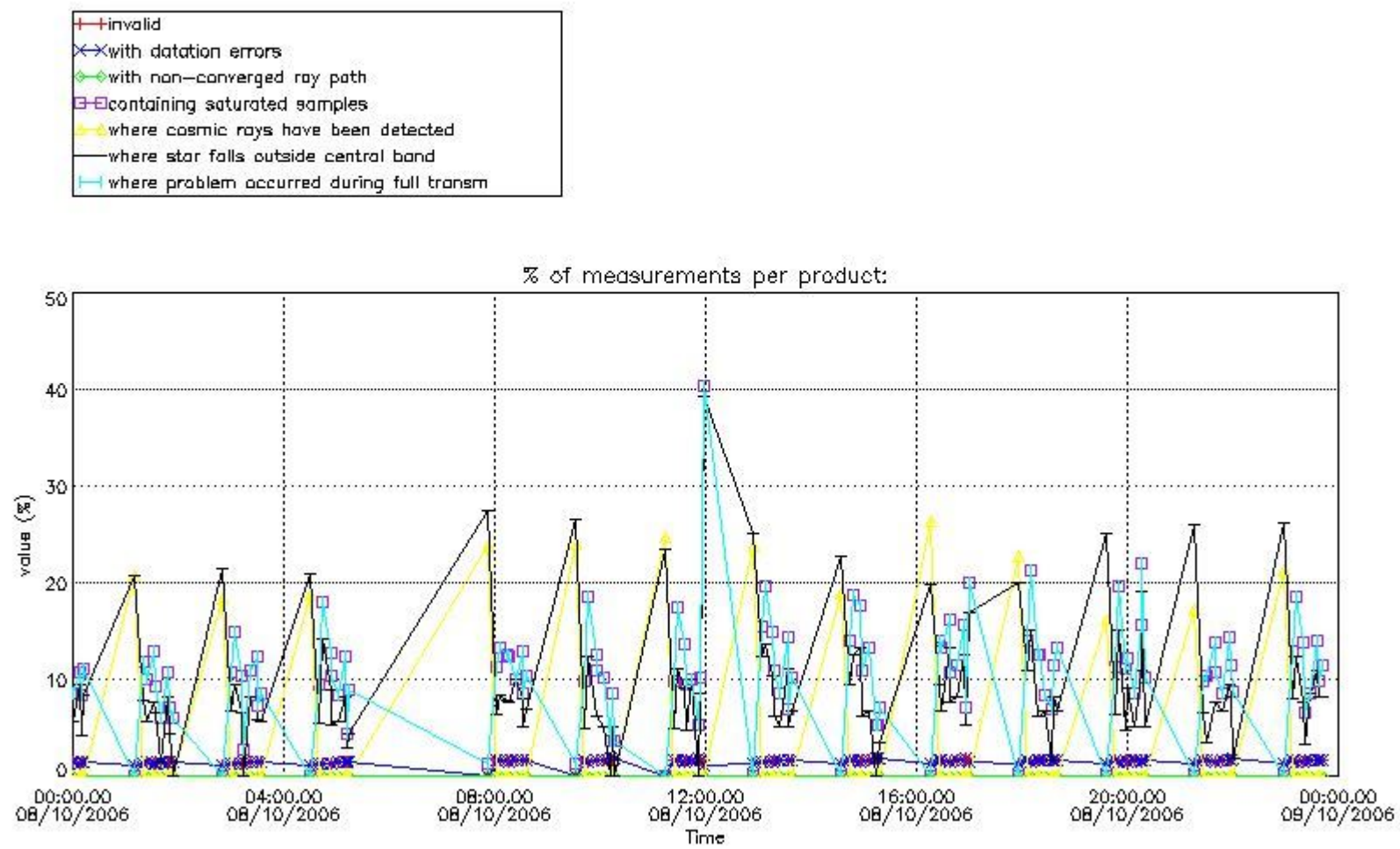
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



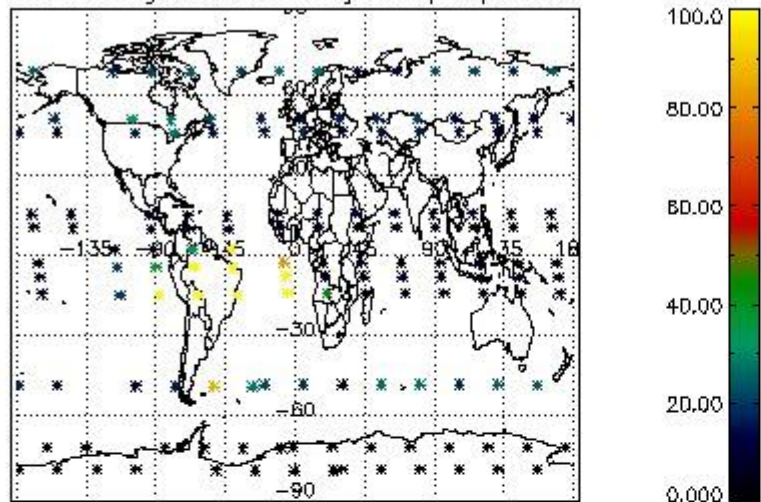
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



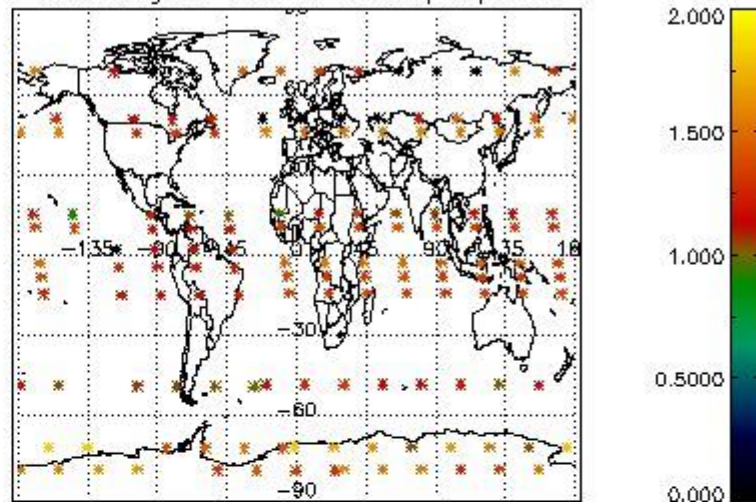
4.2 Plot quality information per product coming from level 1b processing (world map)

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

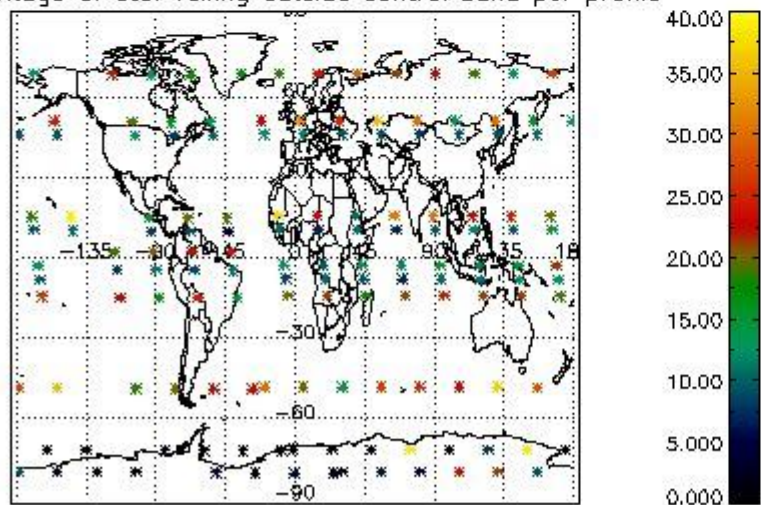
Percentage of cosmic ray hits per profile



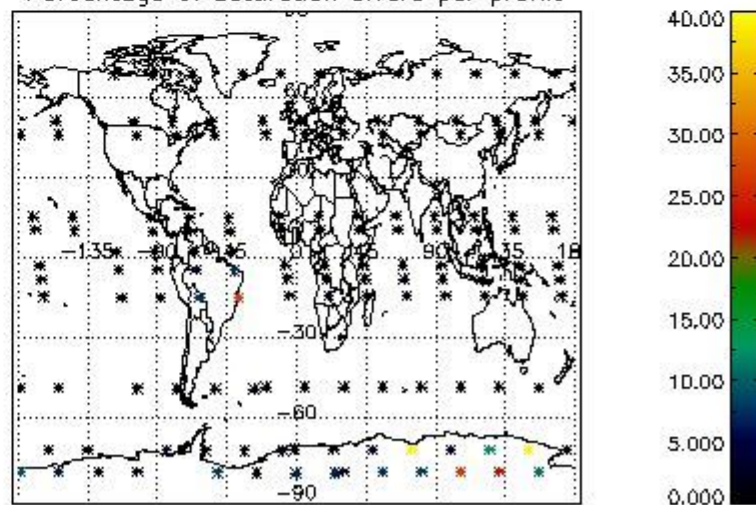
Percentage of datation errors per profile



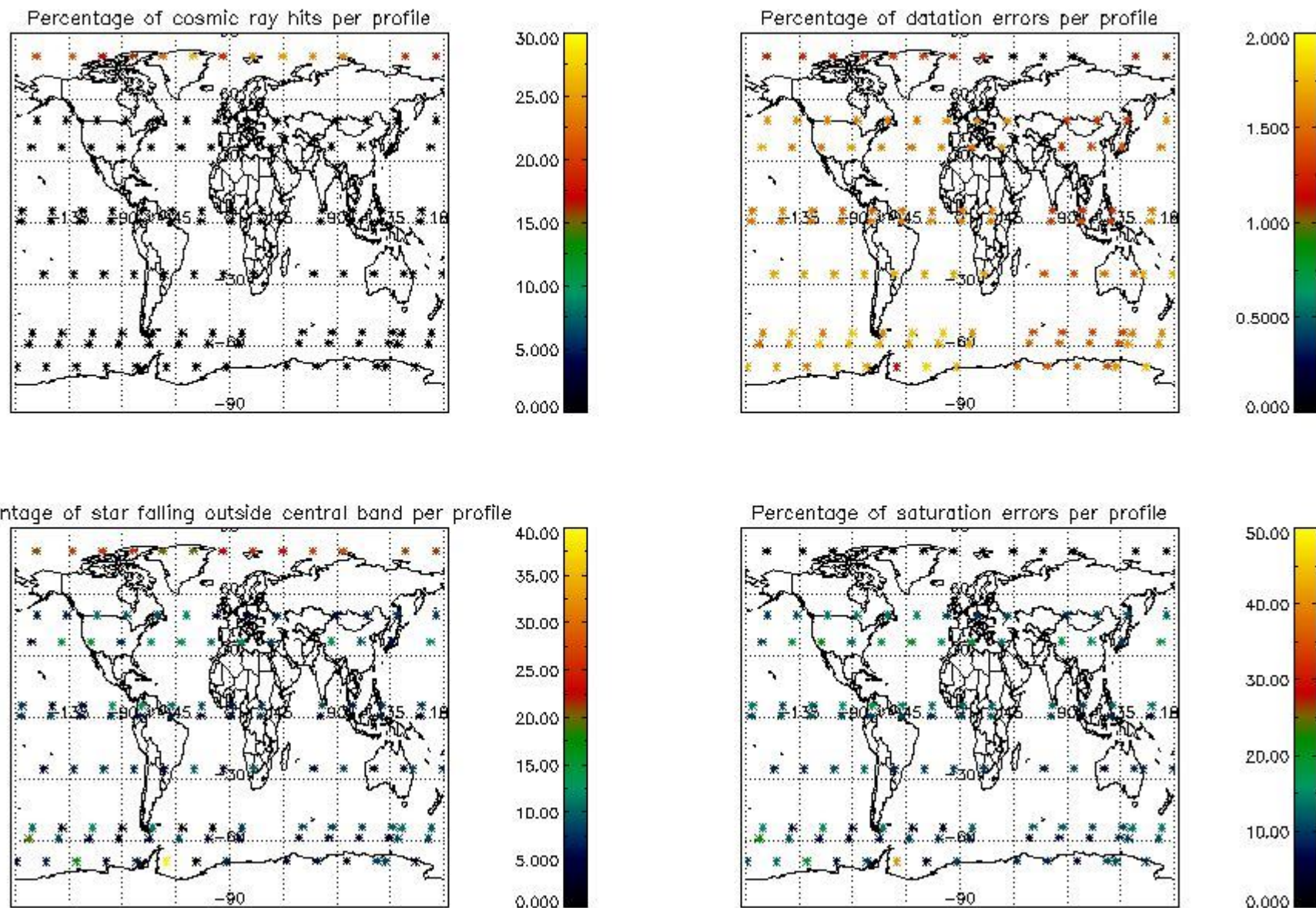
Percentage of star falling outside central band per profile



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

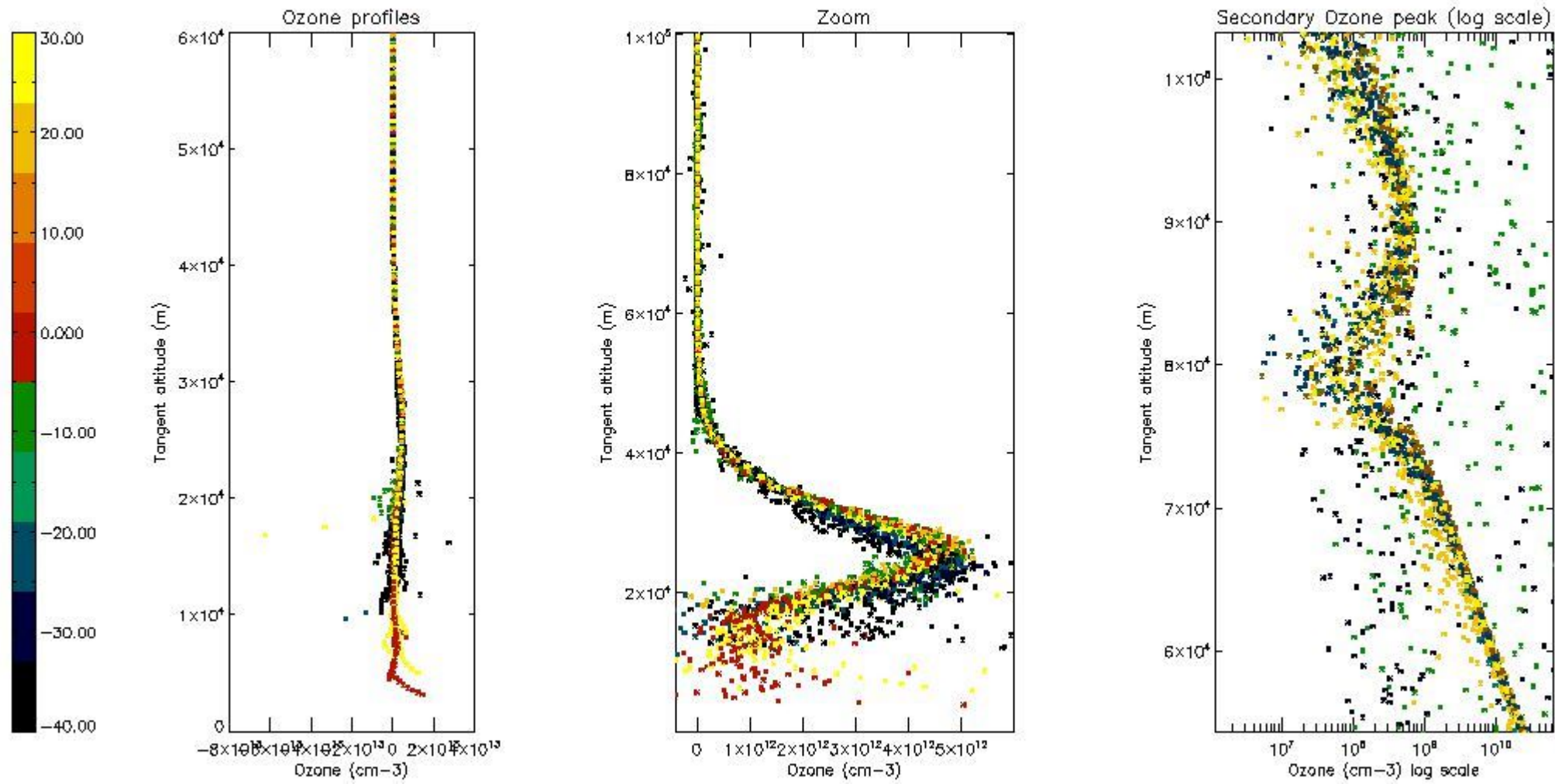
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	37
STD < 20	22

STD < 10	17
STD < 5	11

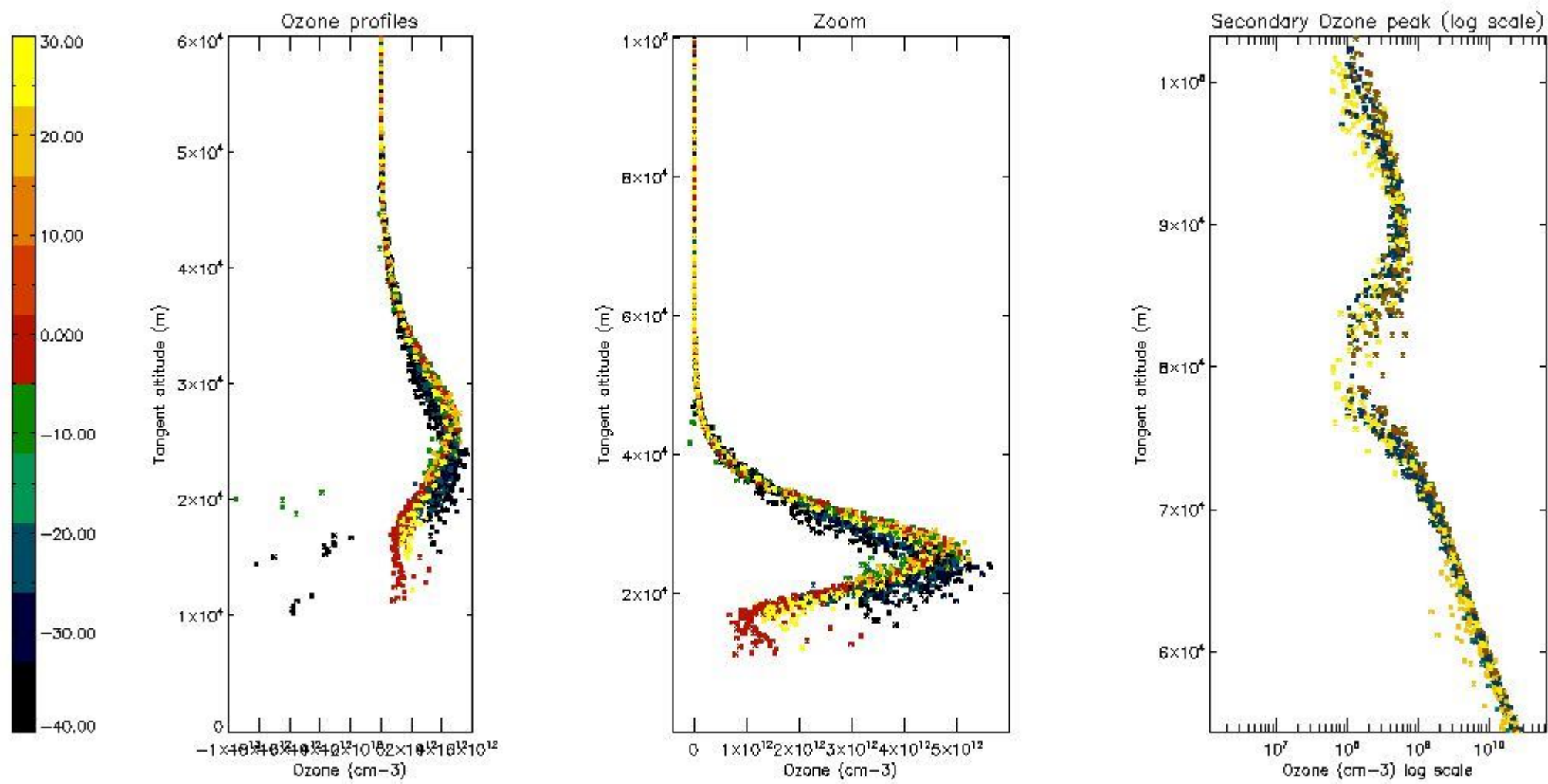
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



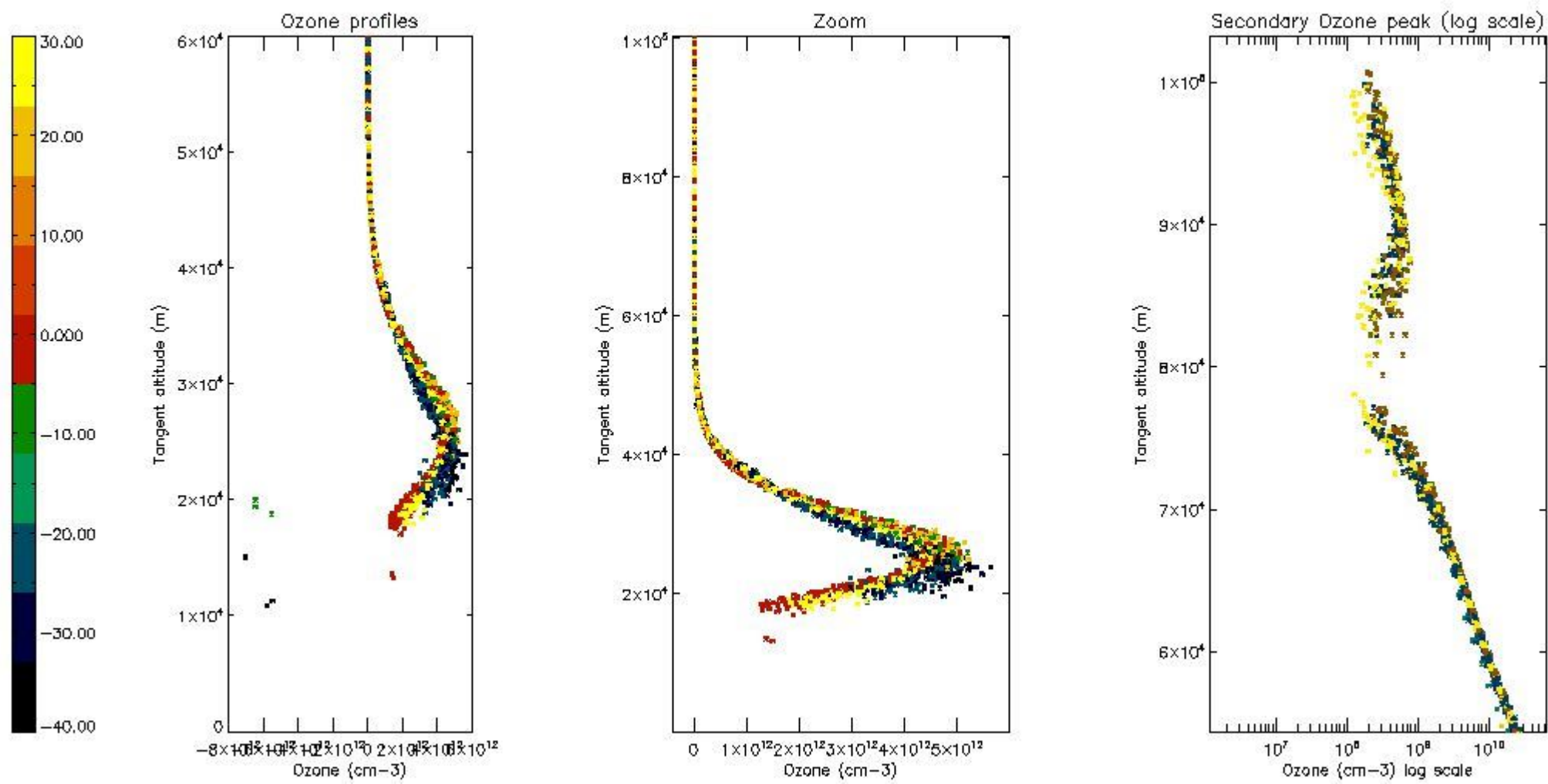
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



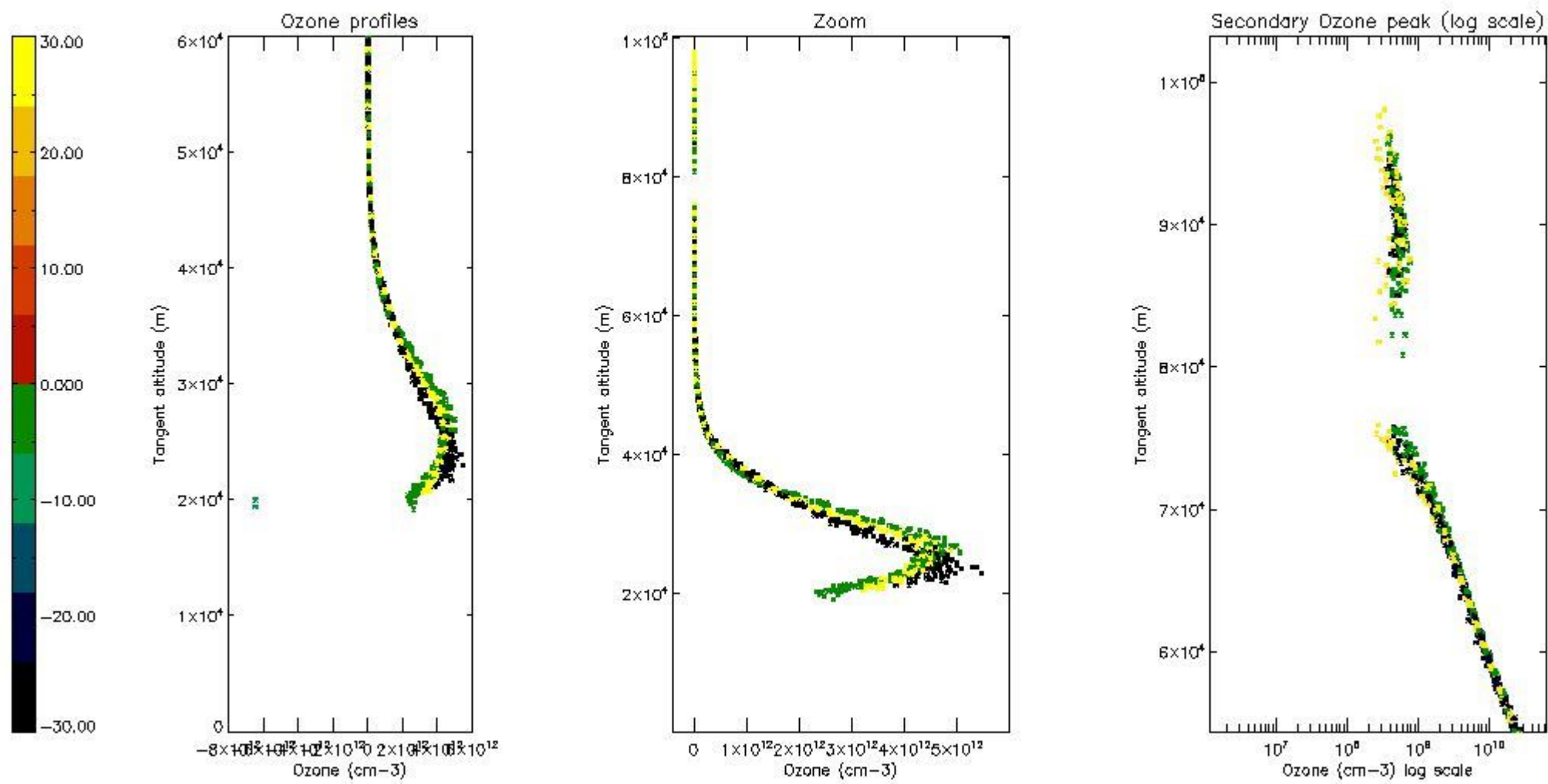
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



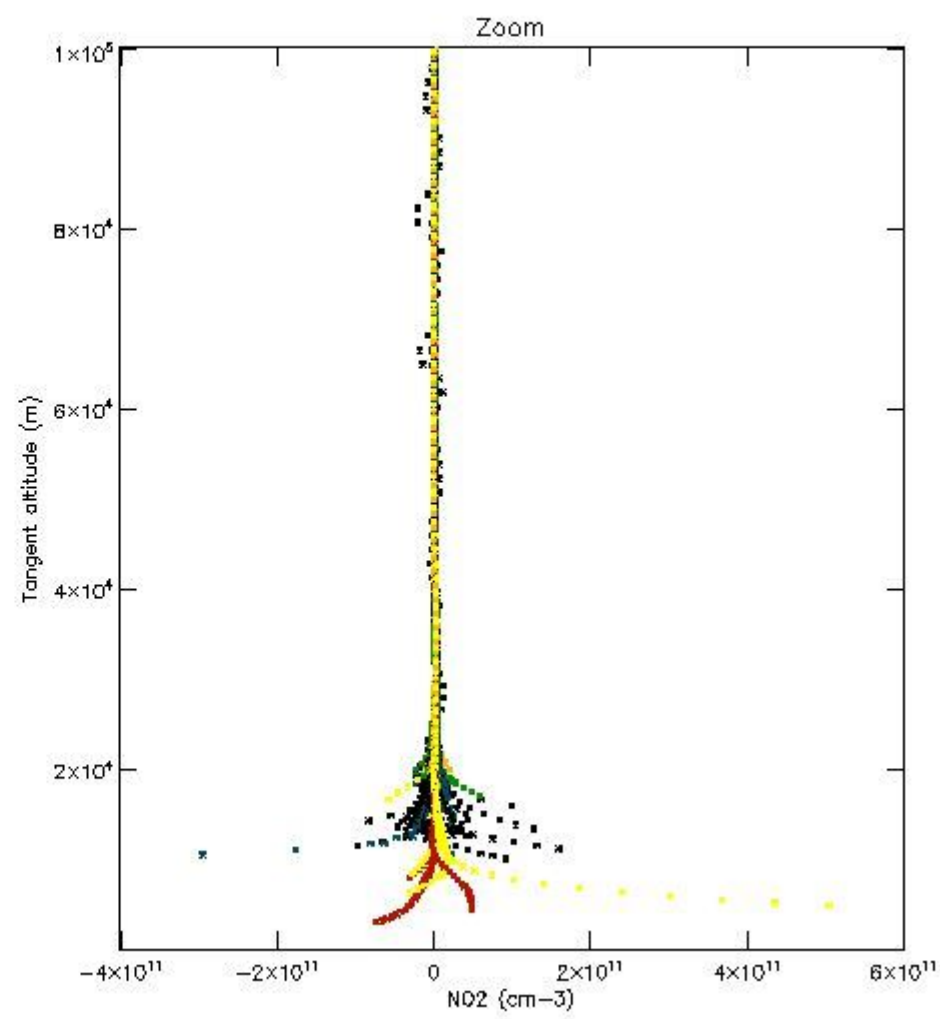
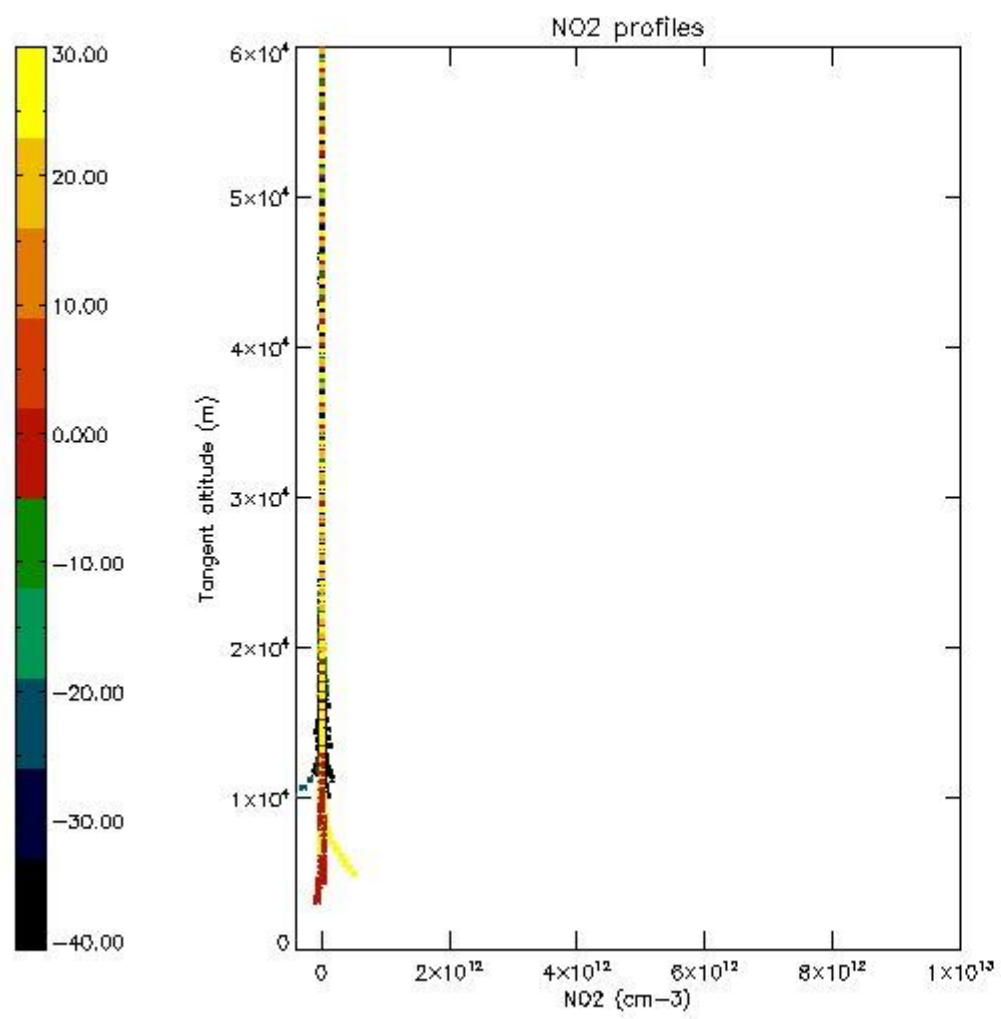
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



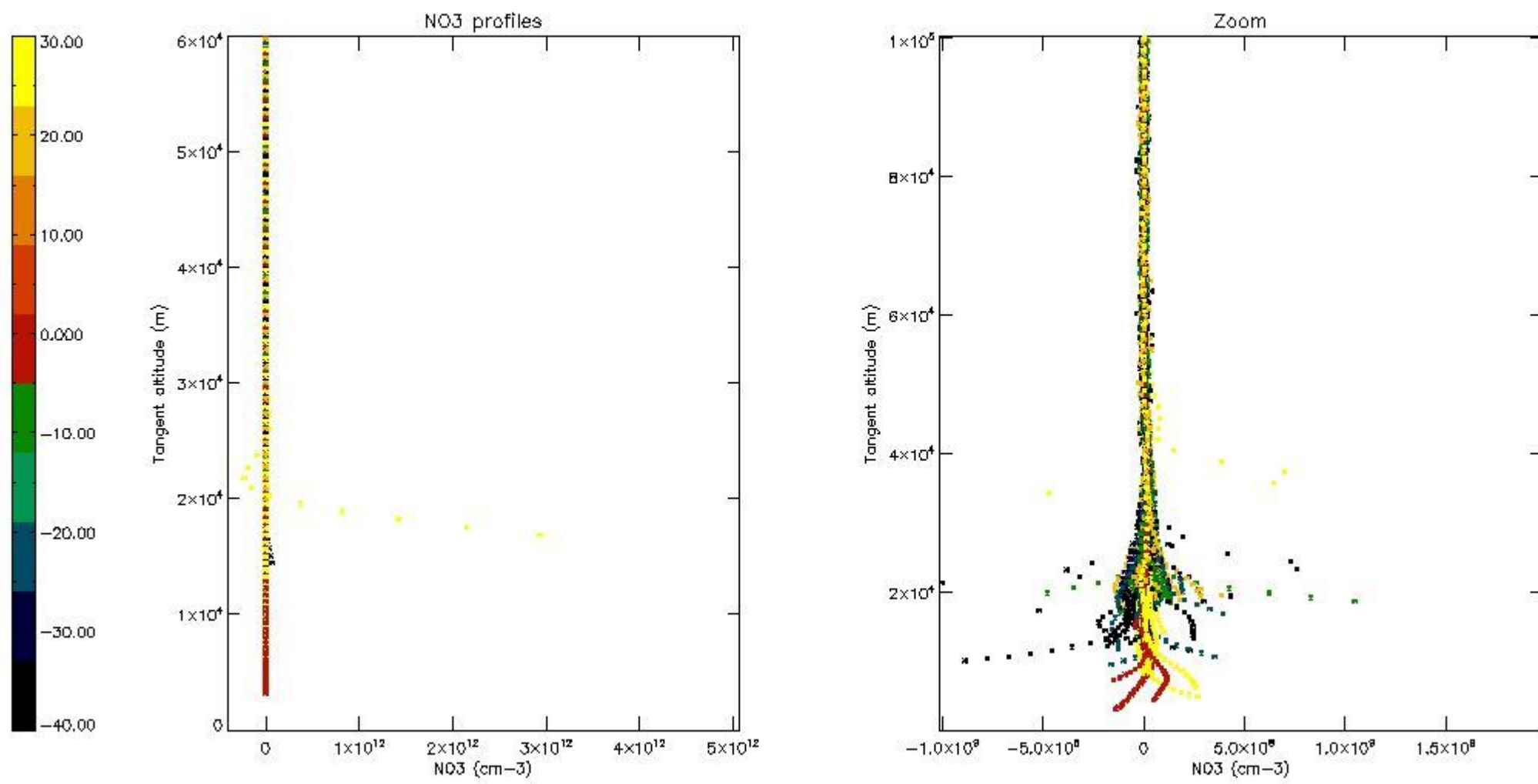
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



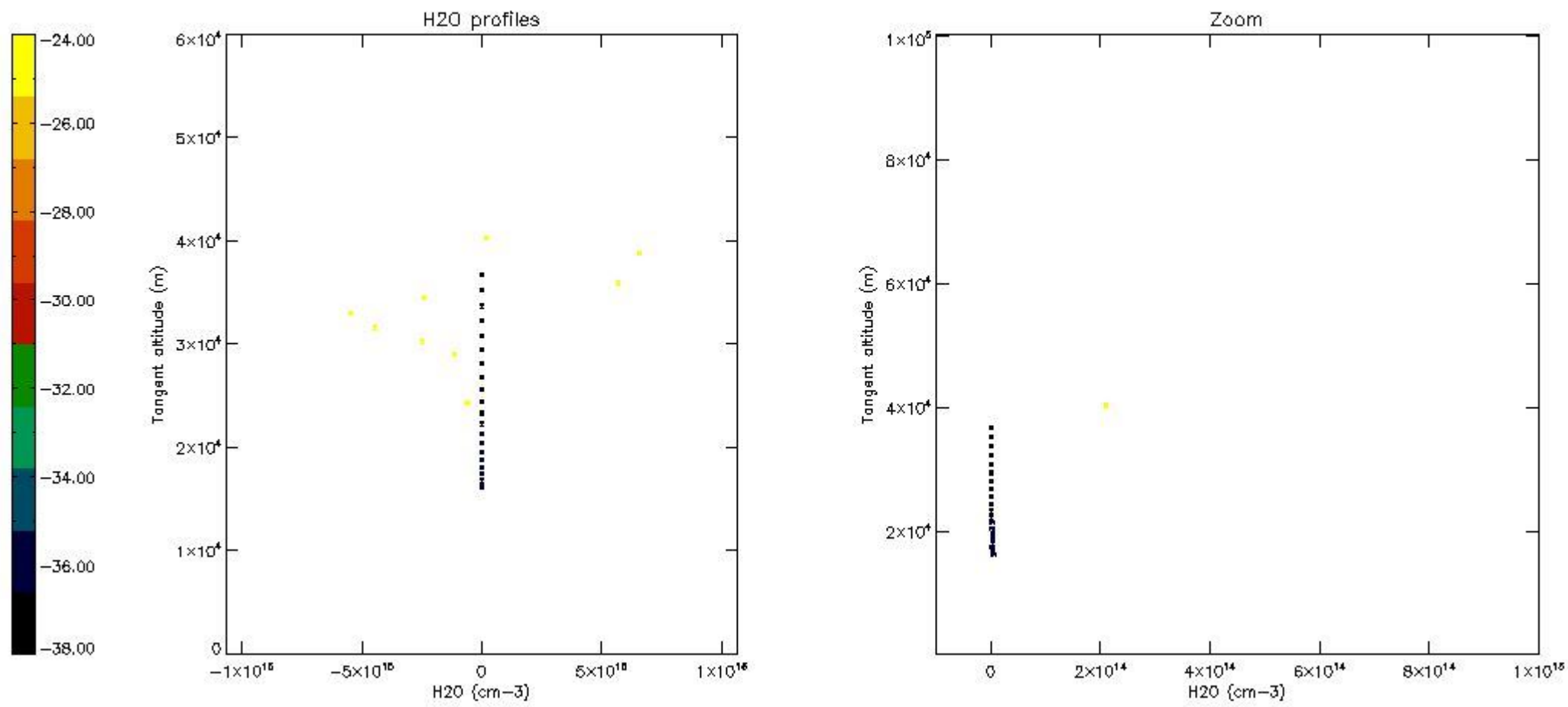
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

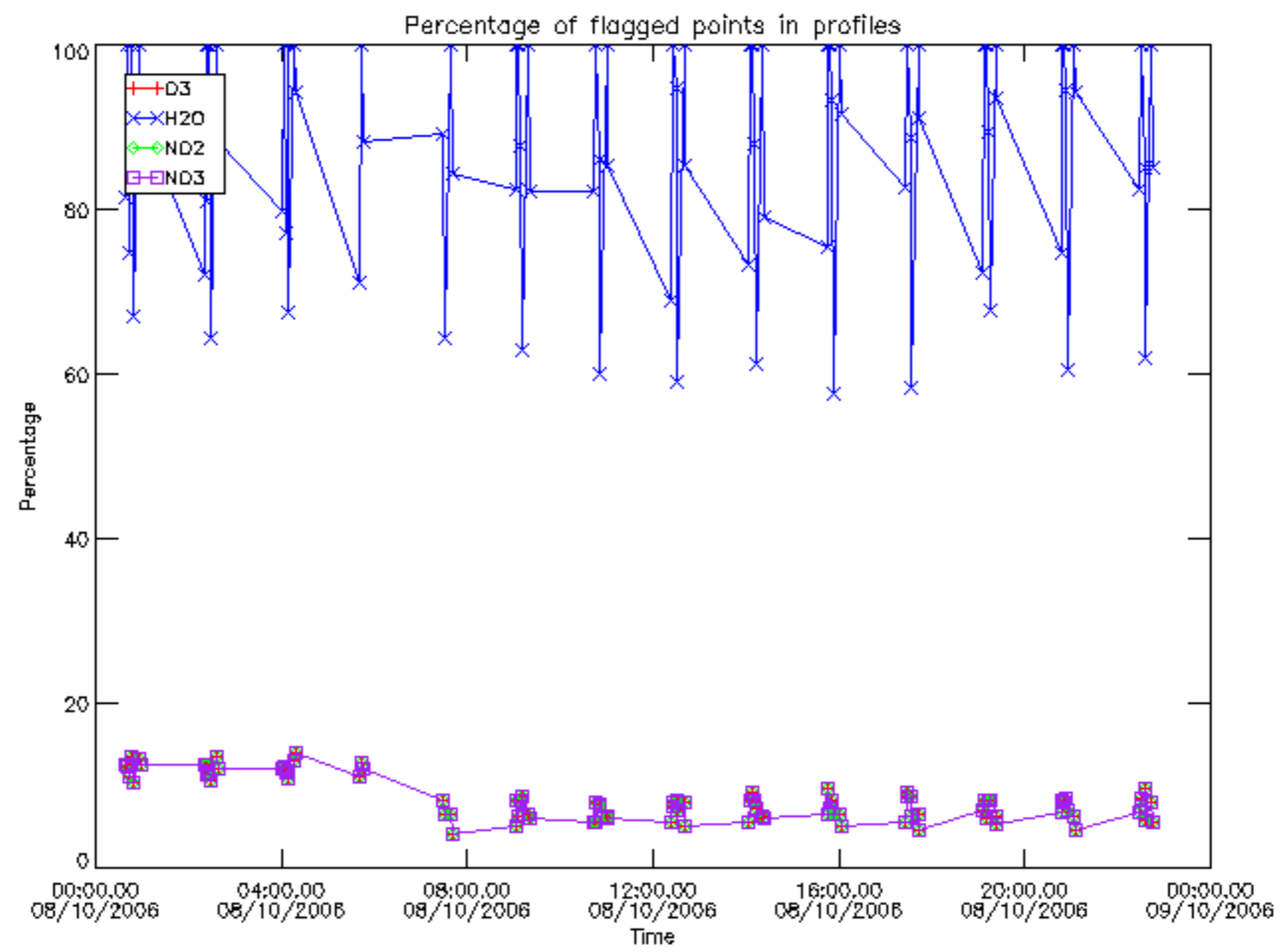
The colorbar represents the latitude.



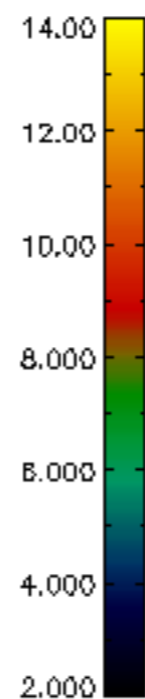
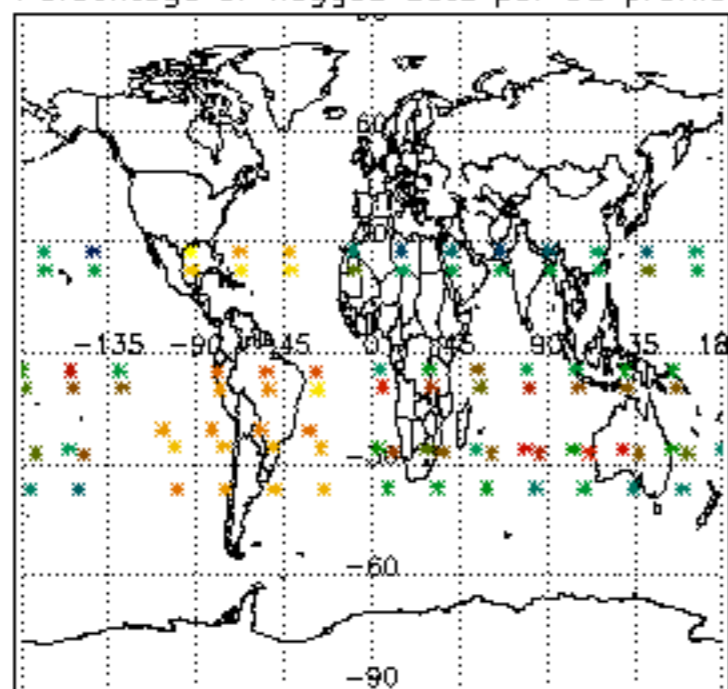
6. Auxiliary Data Files used for the production reported in section 2

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.

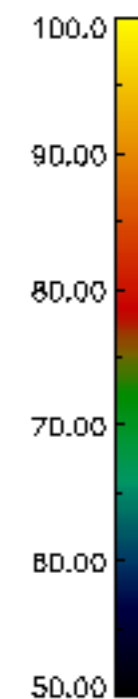
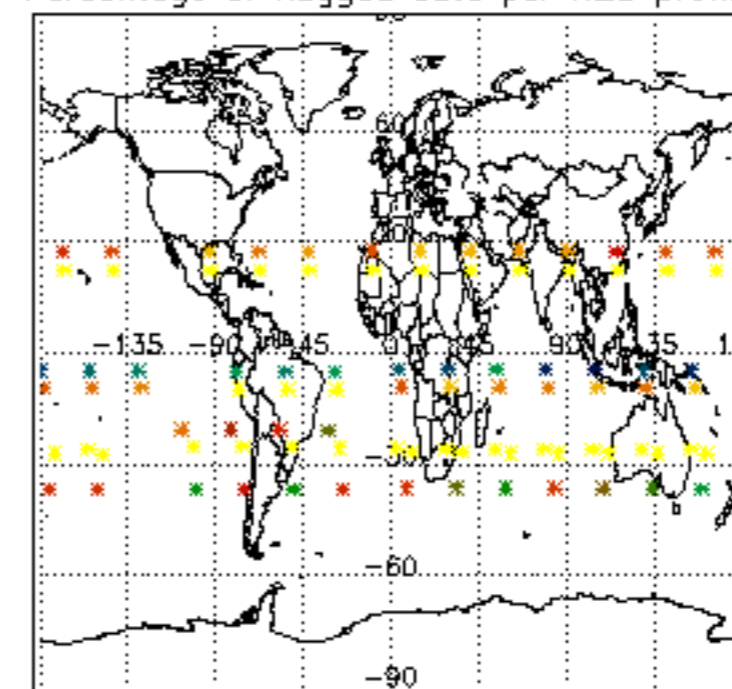
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	08-OCT-2006 00:00:00
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	08-OCT-2006 00:00:00
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	08-OCT-2006 00:00:00



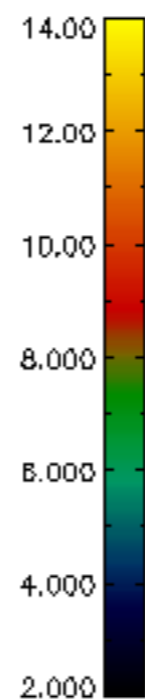
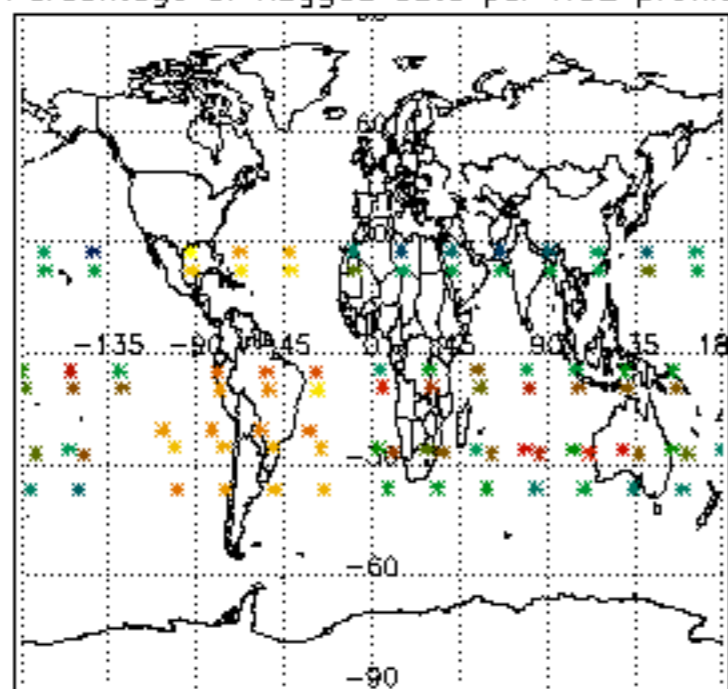
Percentage of flagged data per D3 profile



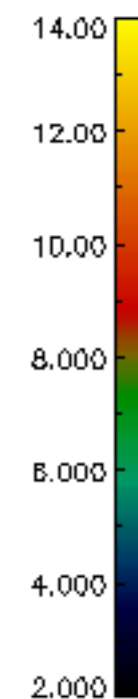
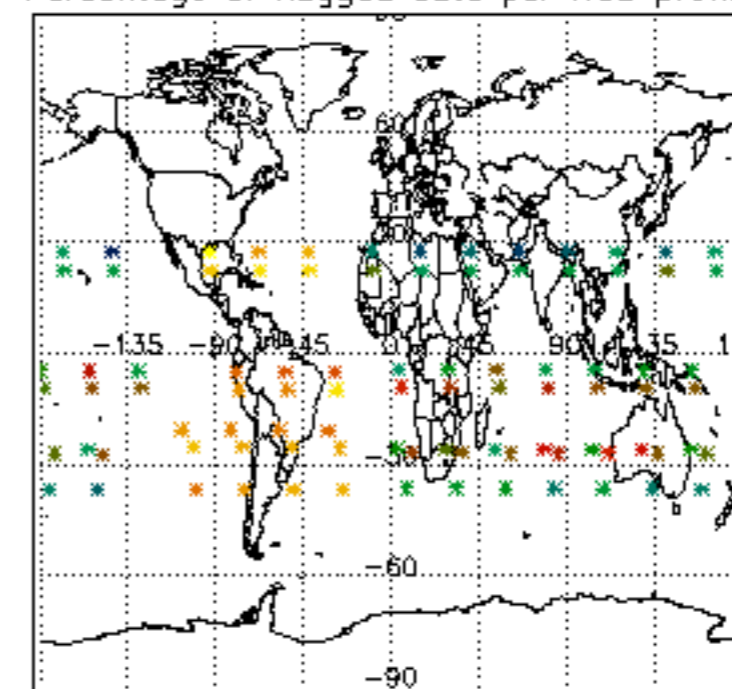
Percentage of flagged data per H2O profile

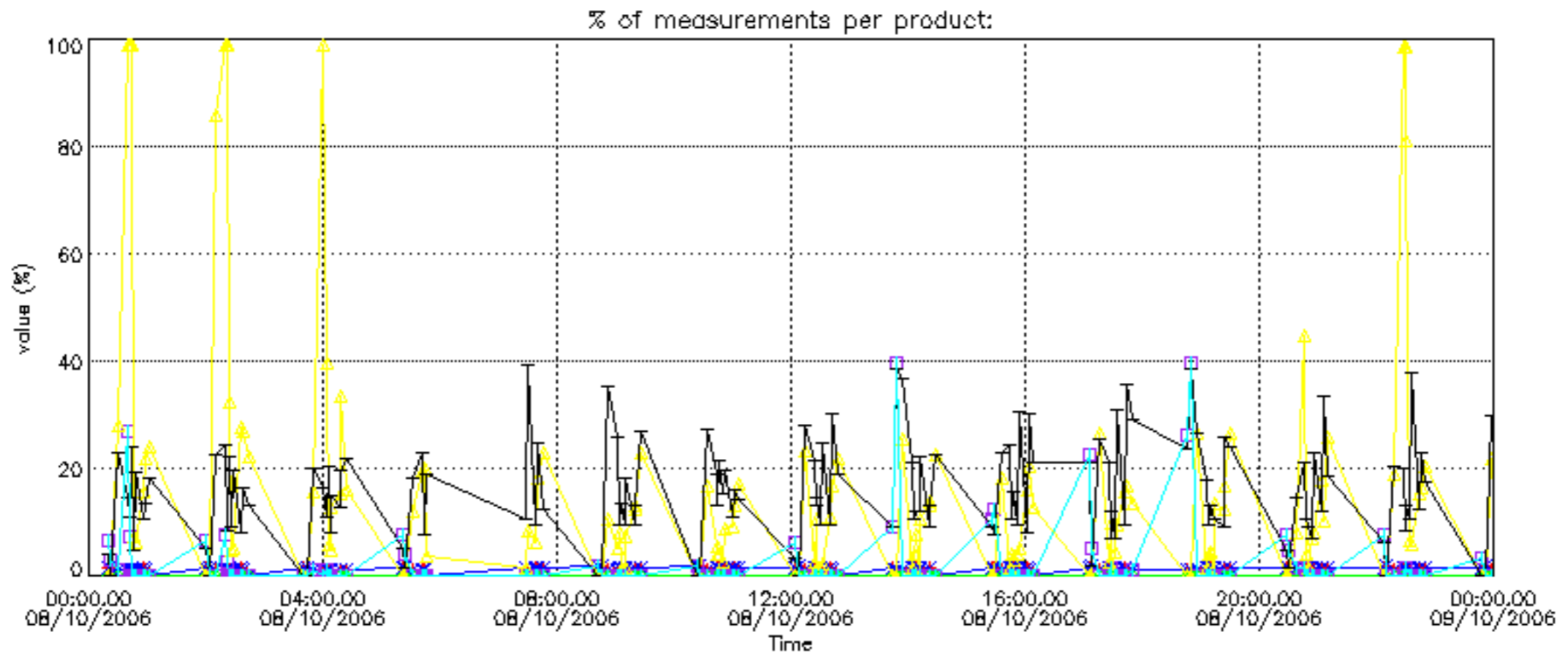


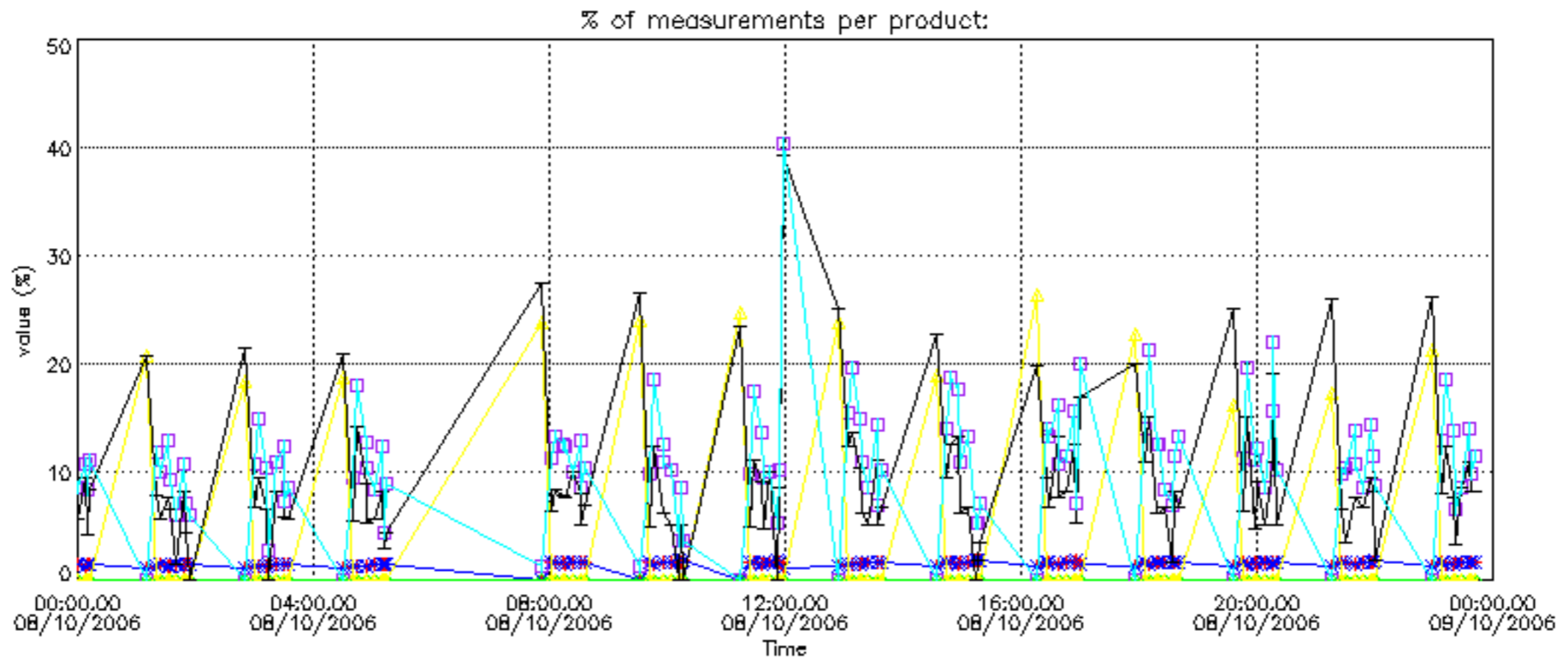
Percentage of flagged data per NO2 profile



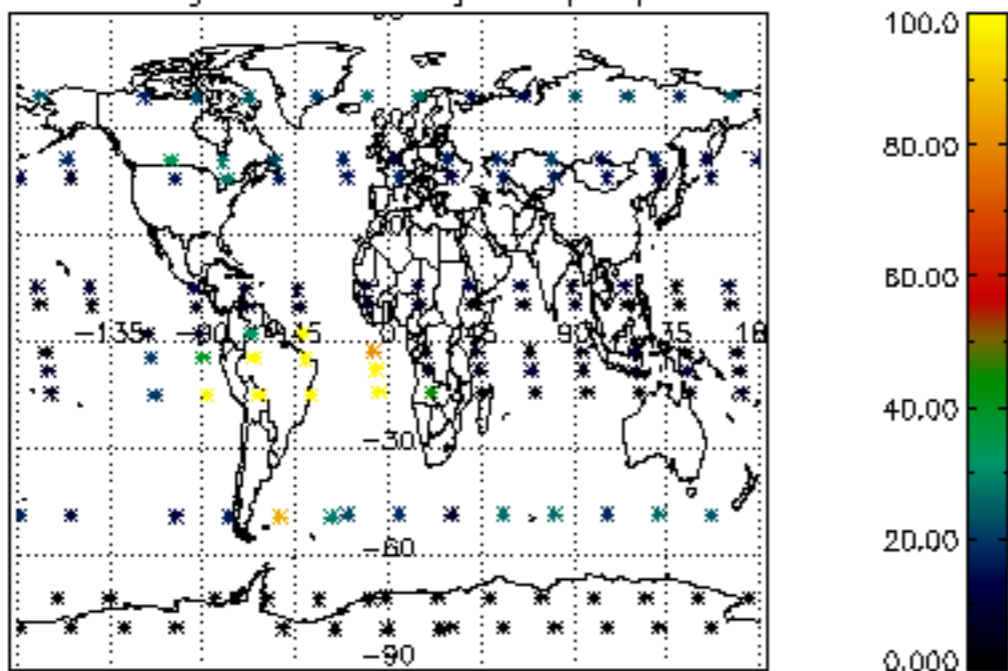
Percentage of flagged data per NO3 profile



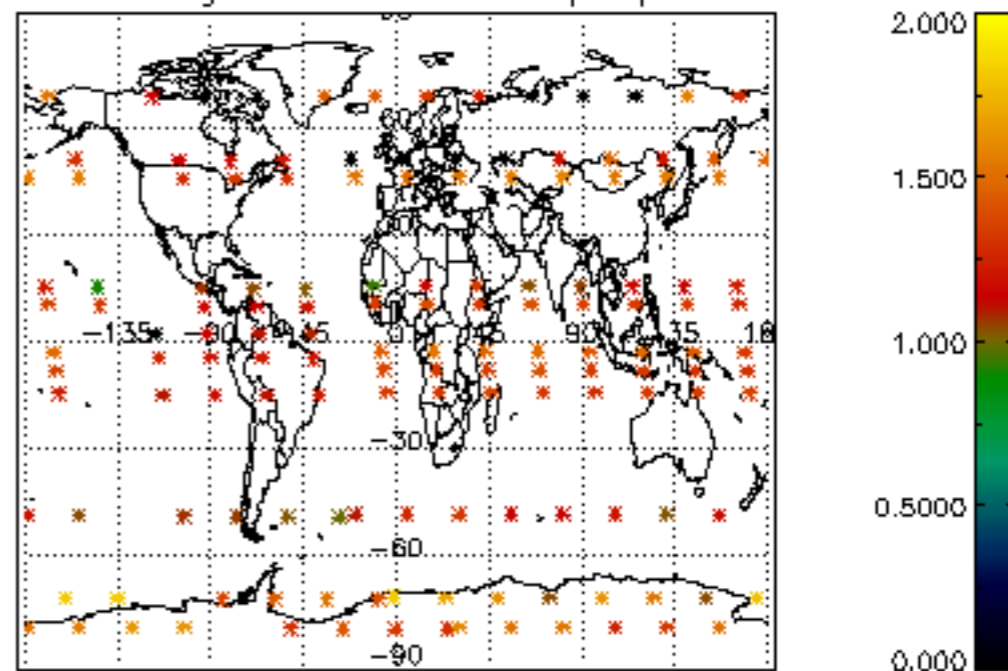




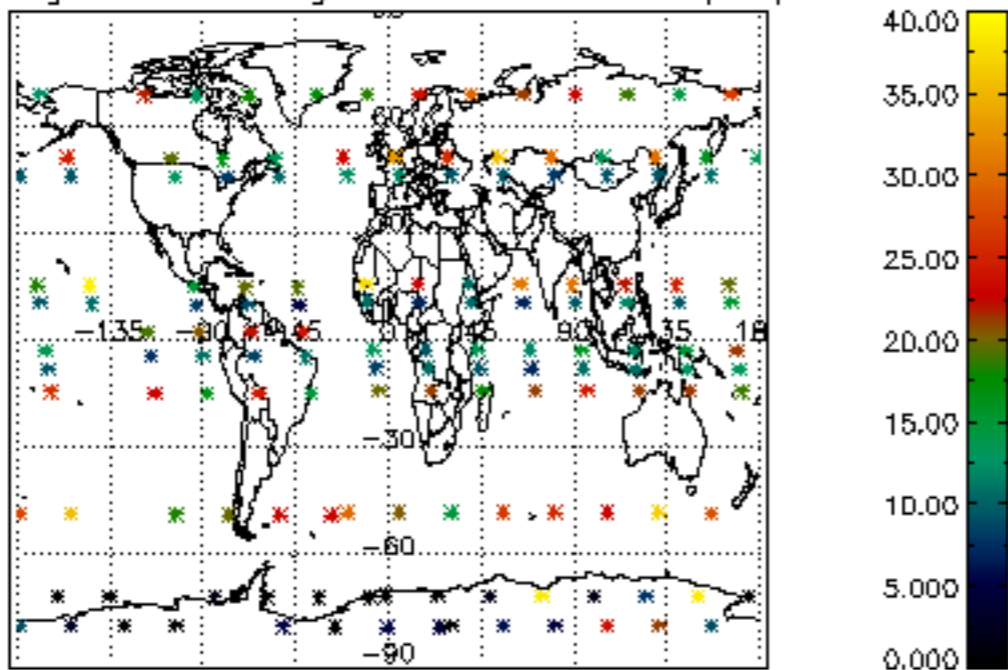
Percentage of cosmic ray hits per profile



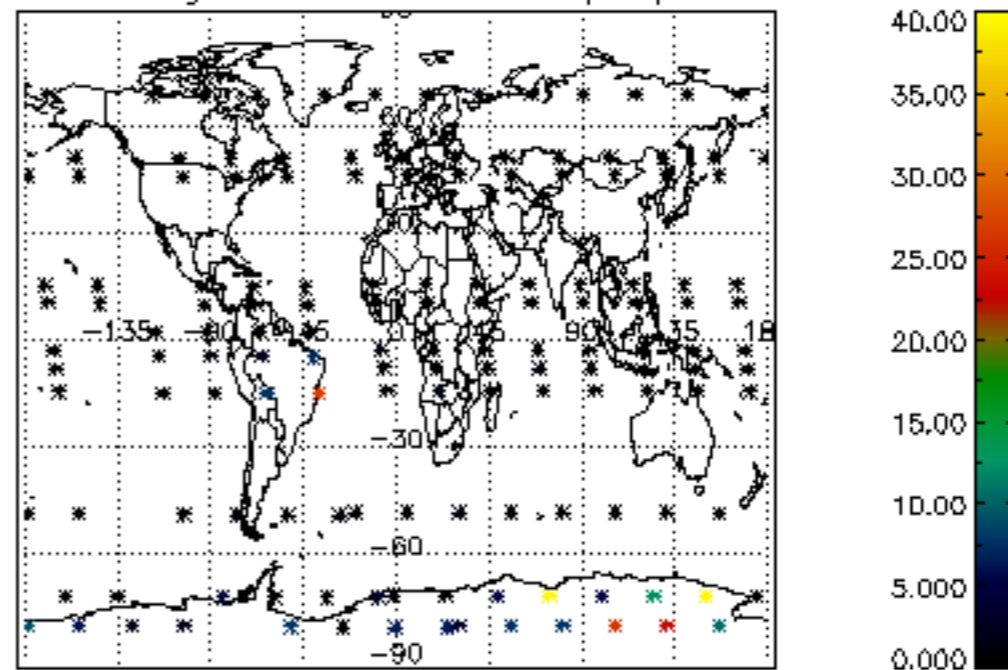
Percentage of datation errors per profile



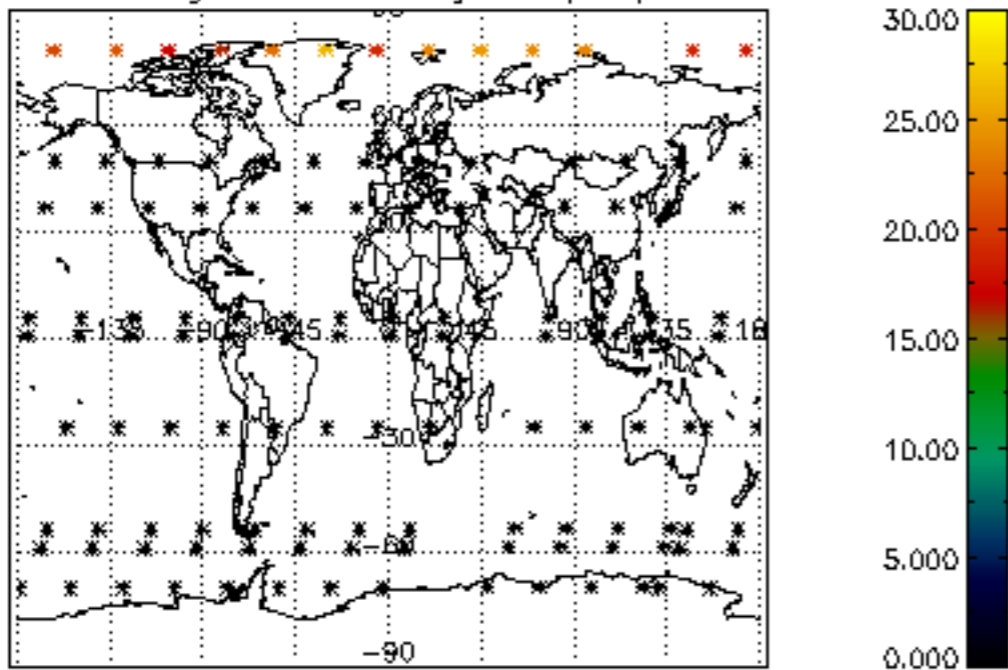
Percentage of star falling outside central band per profile



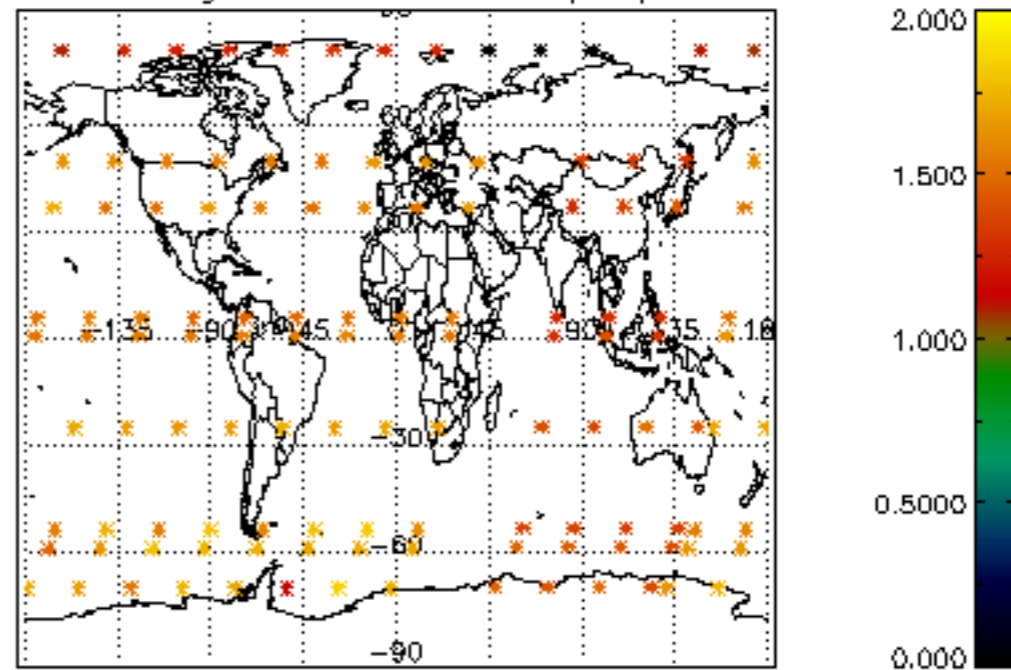
Percentage of saturation errors per profile



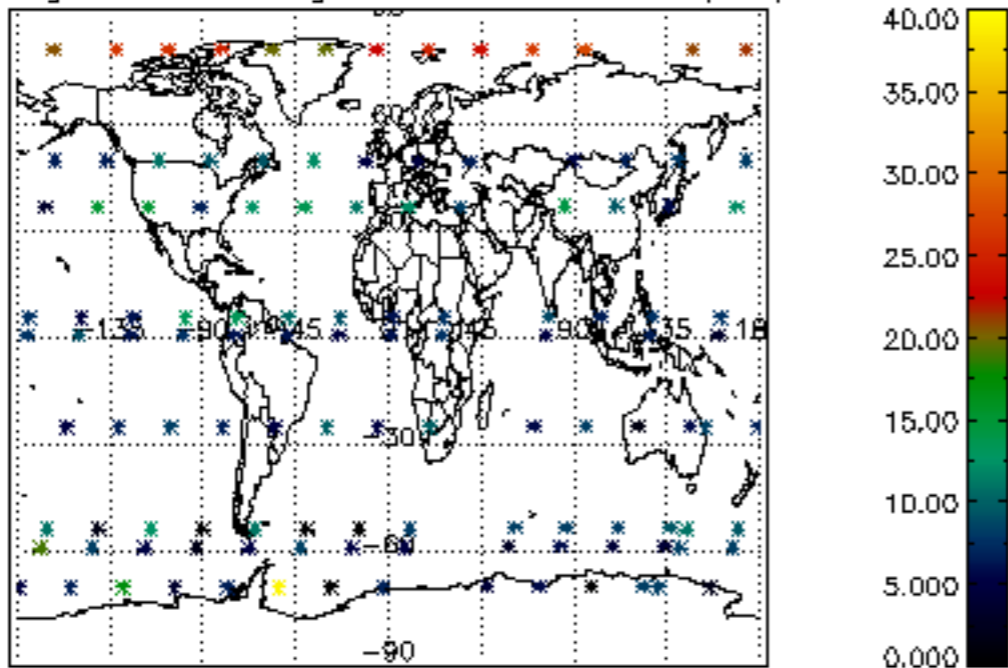
Percentage of cosmic ray hits per profile



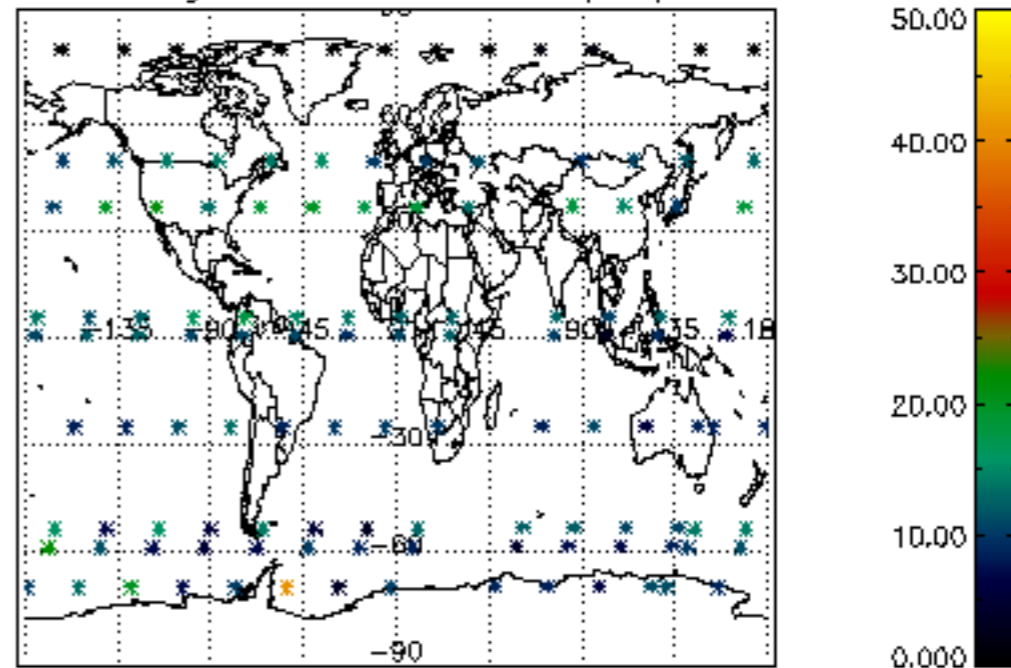
Percentage of datation errors per profile

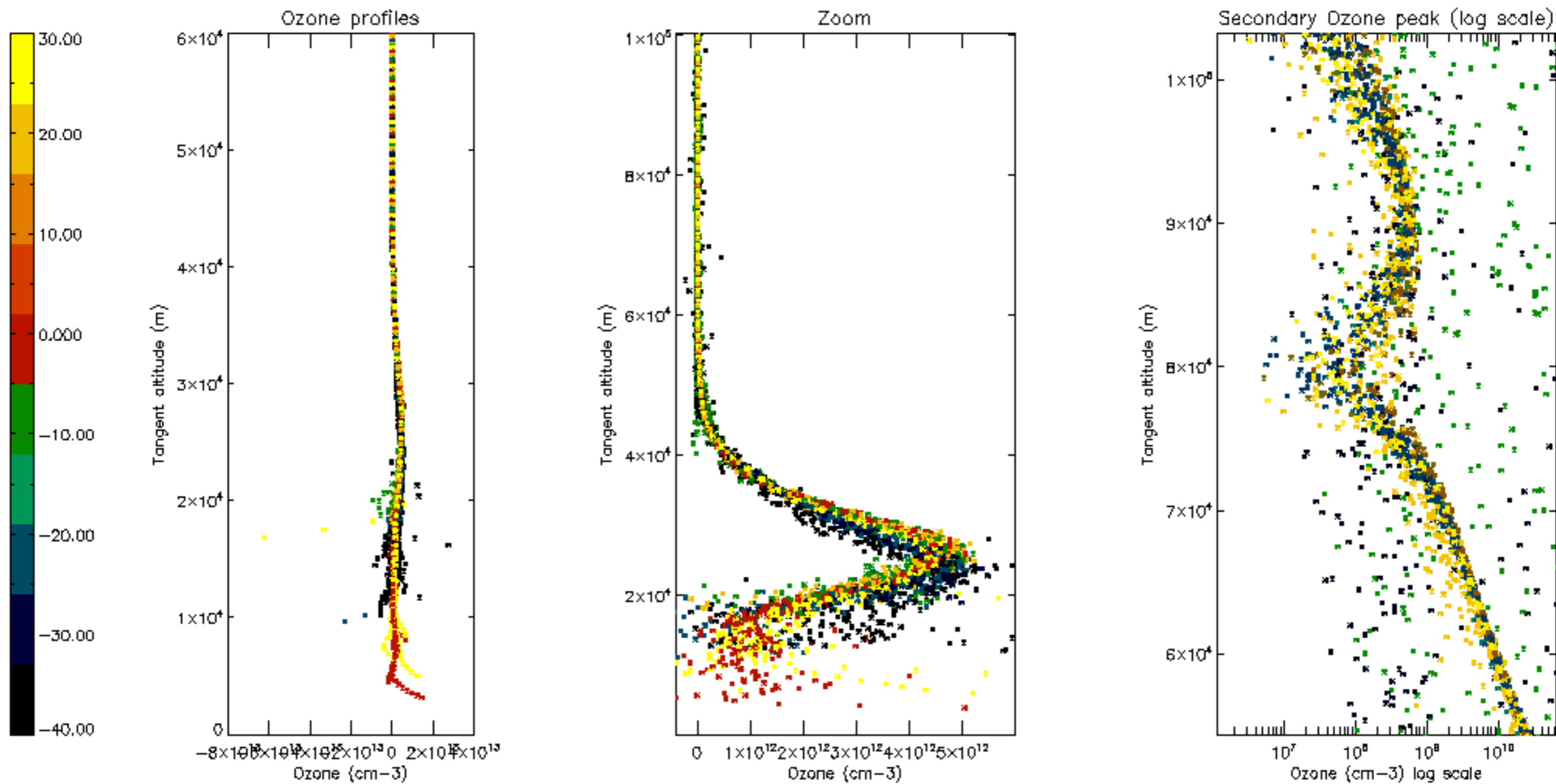


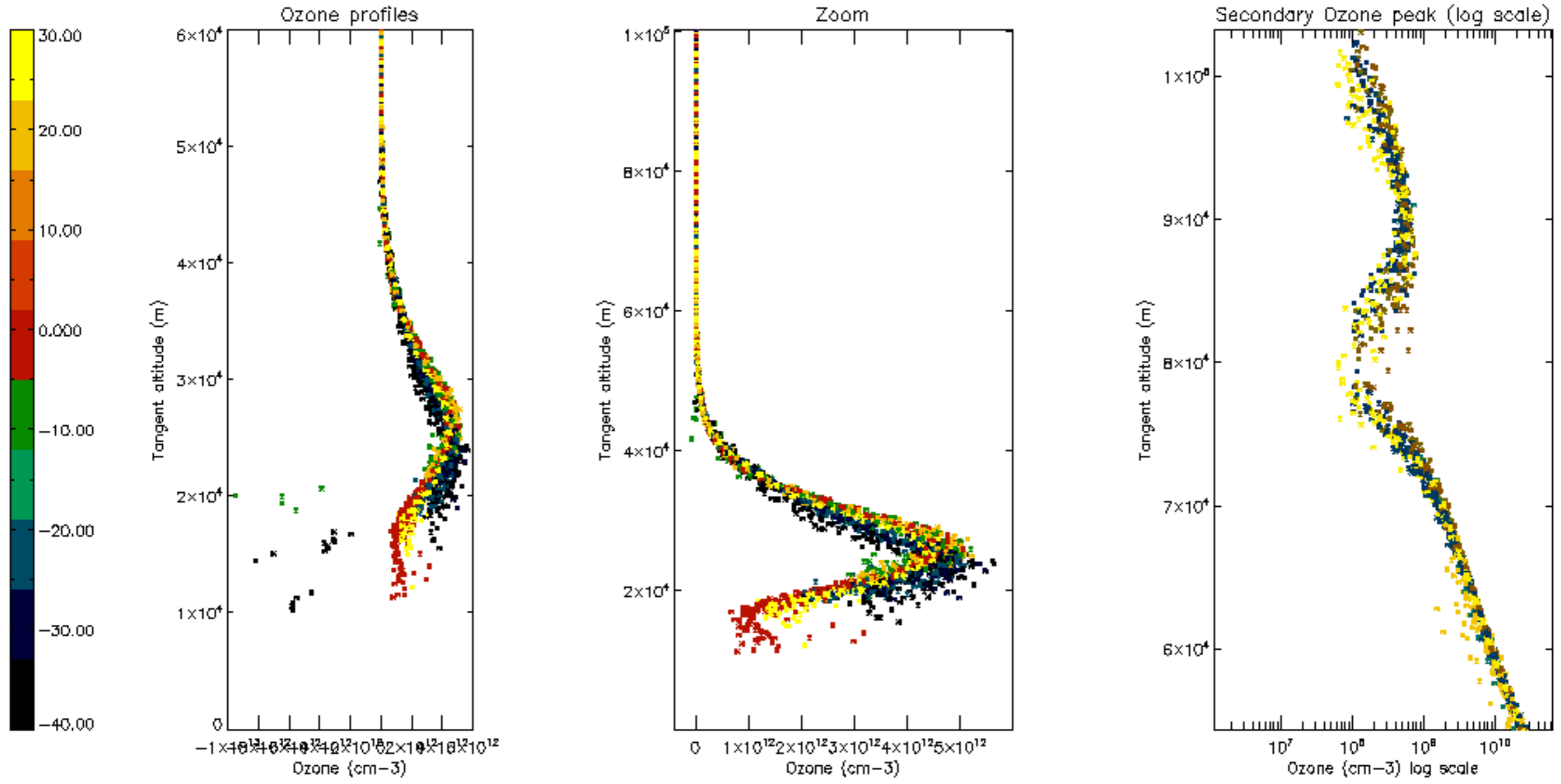
Percentage of star falling outside central band per profile

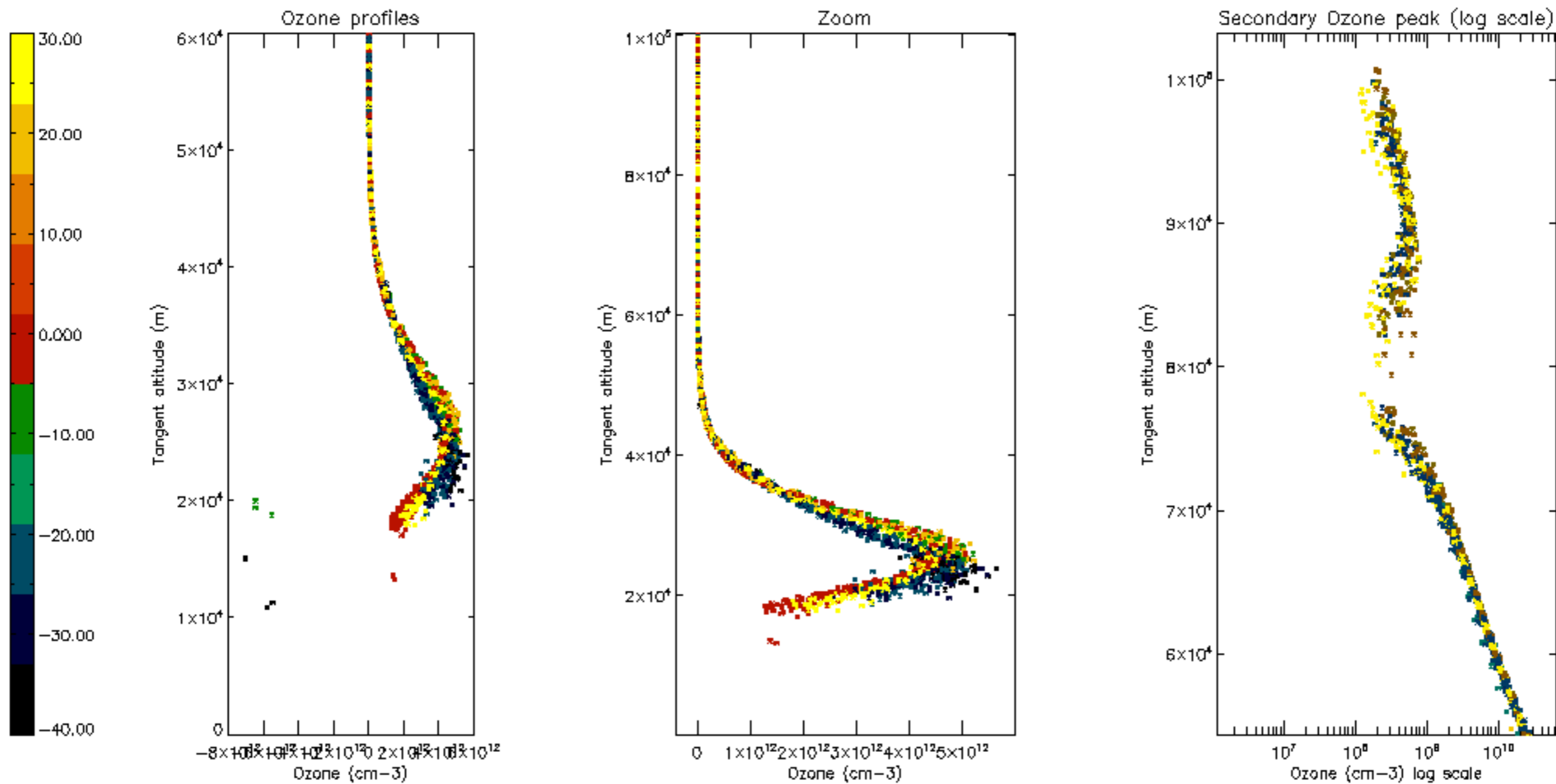


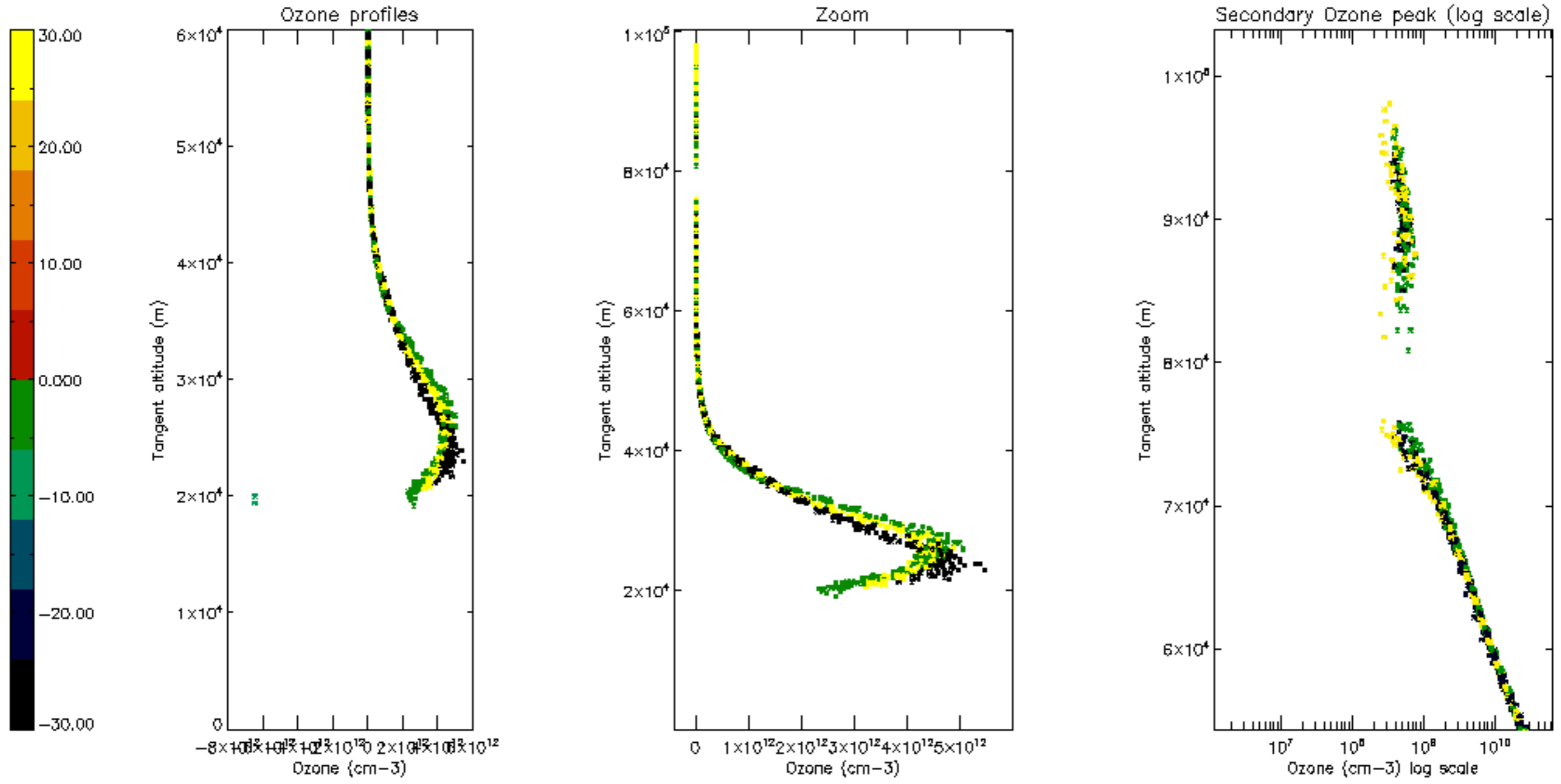
Percentage of saturation errors per profile

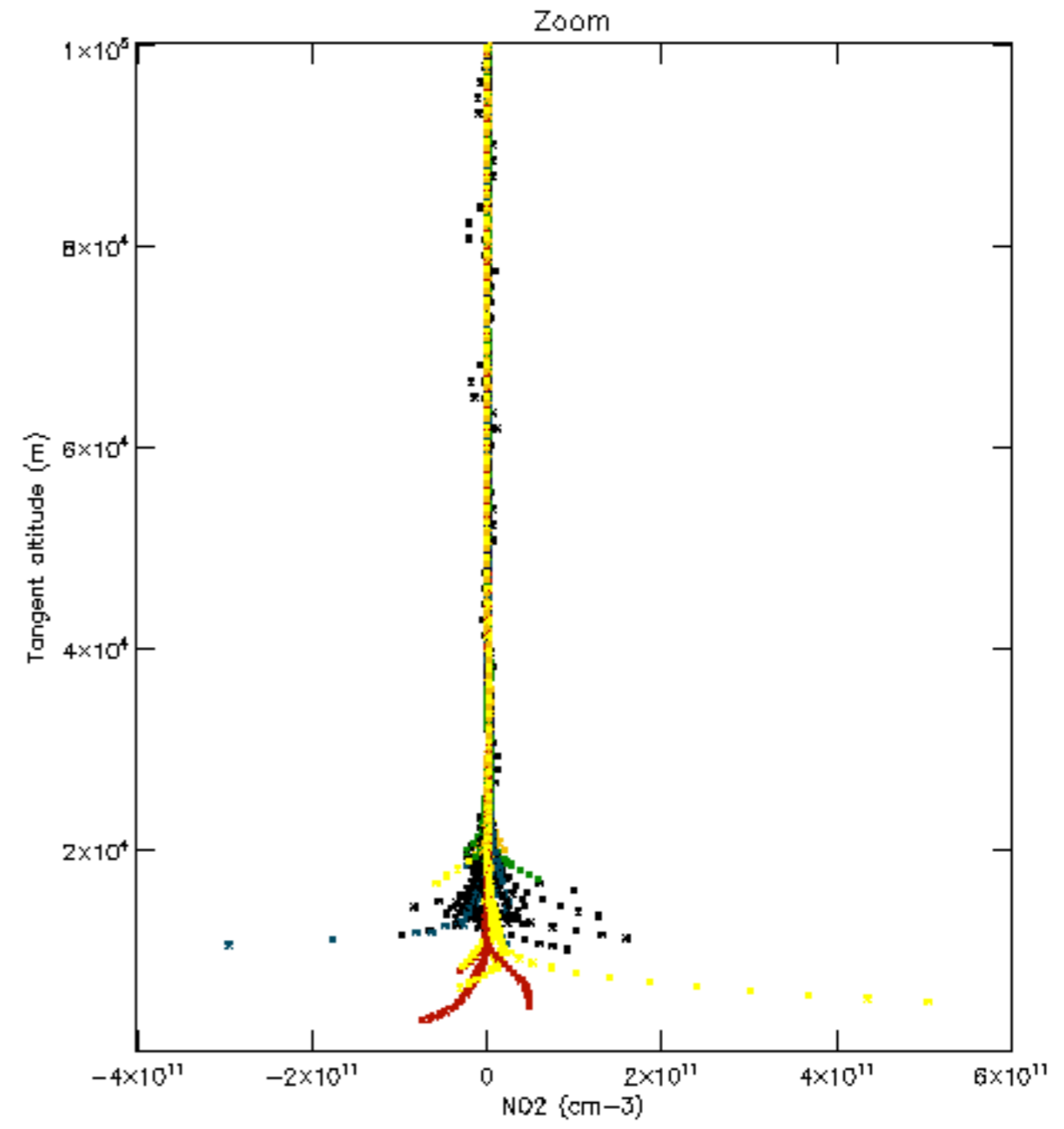
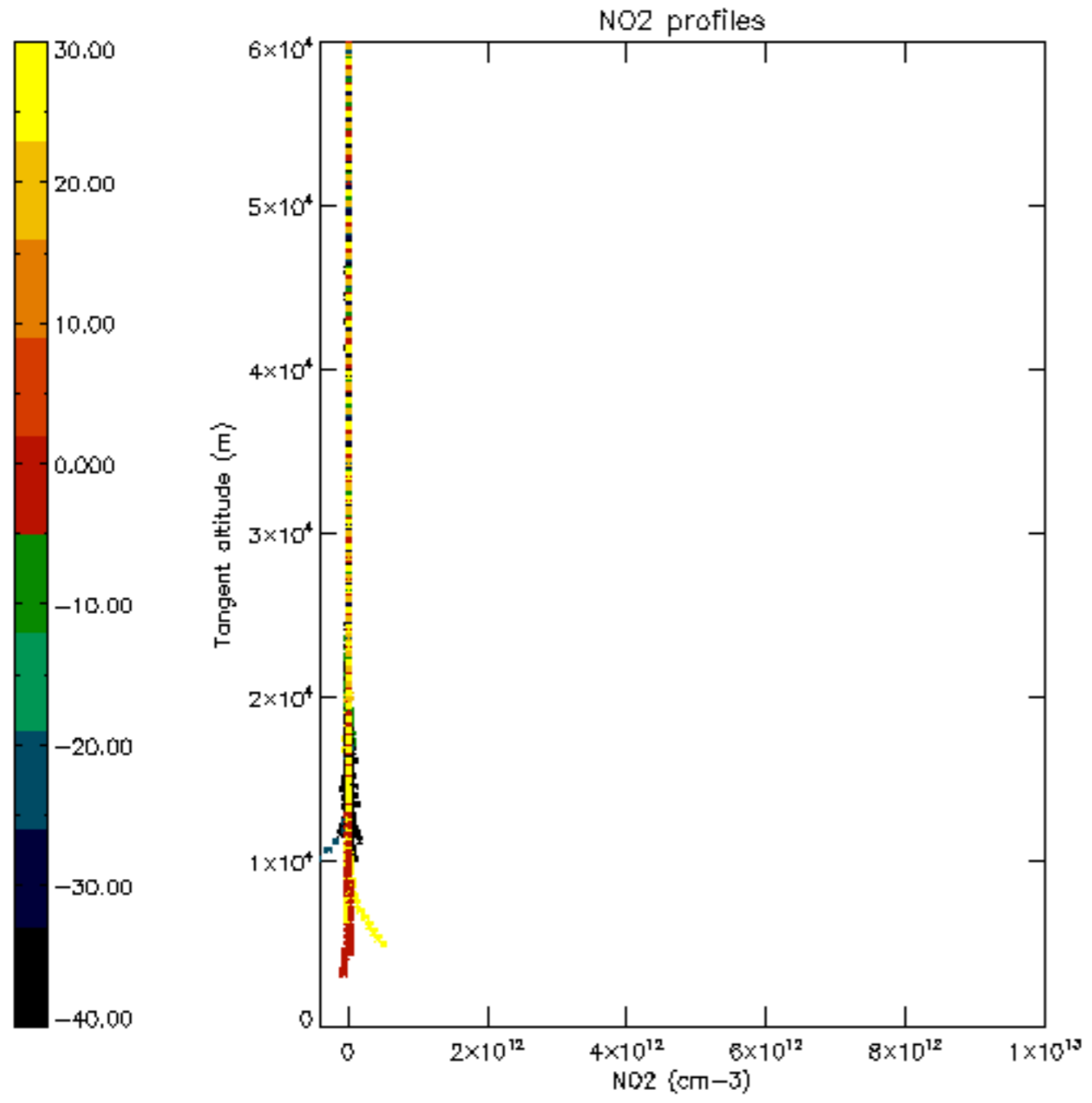


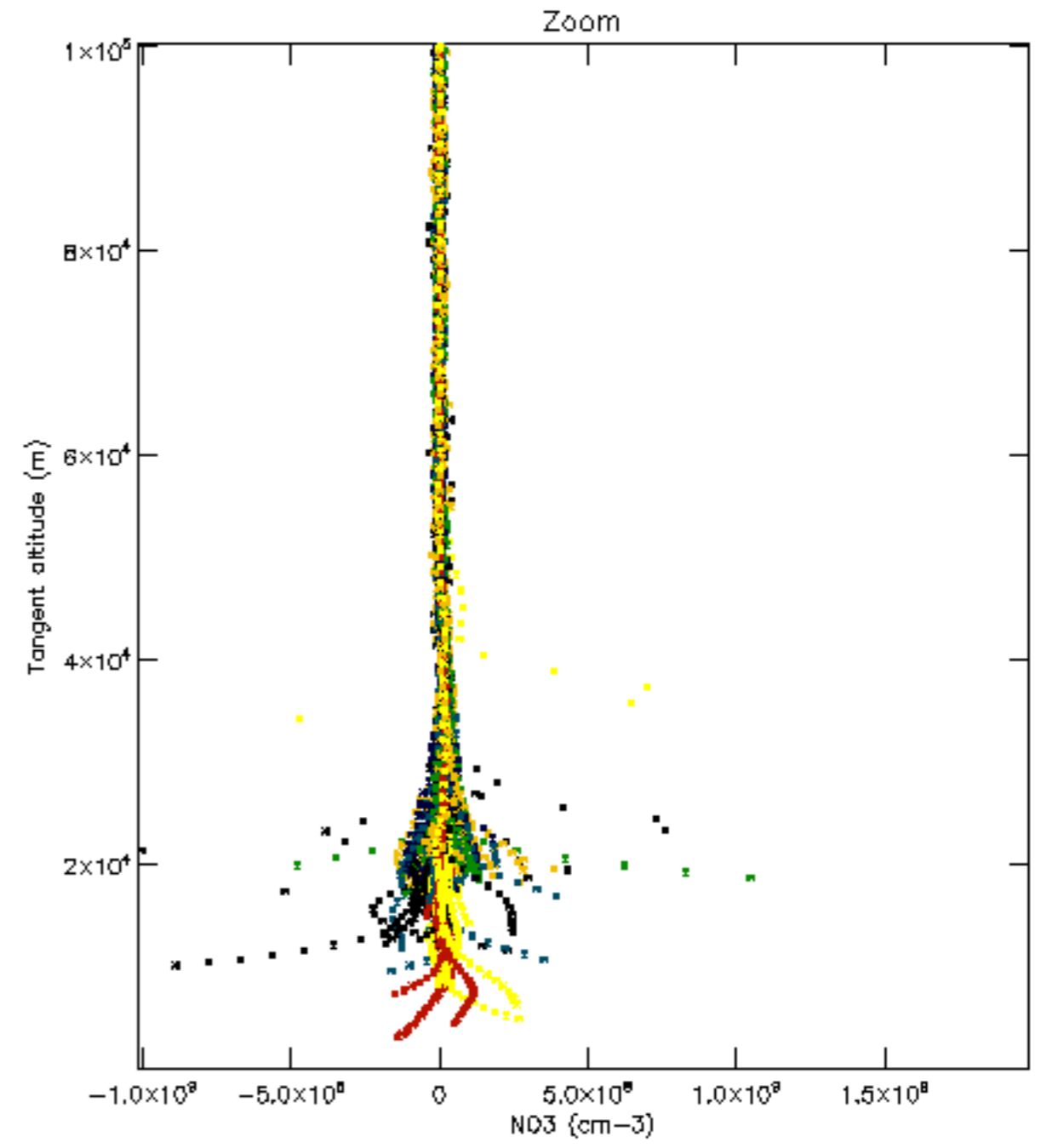
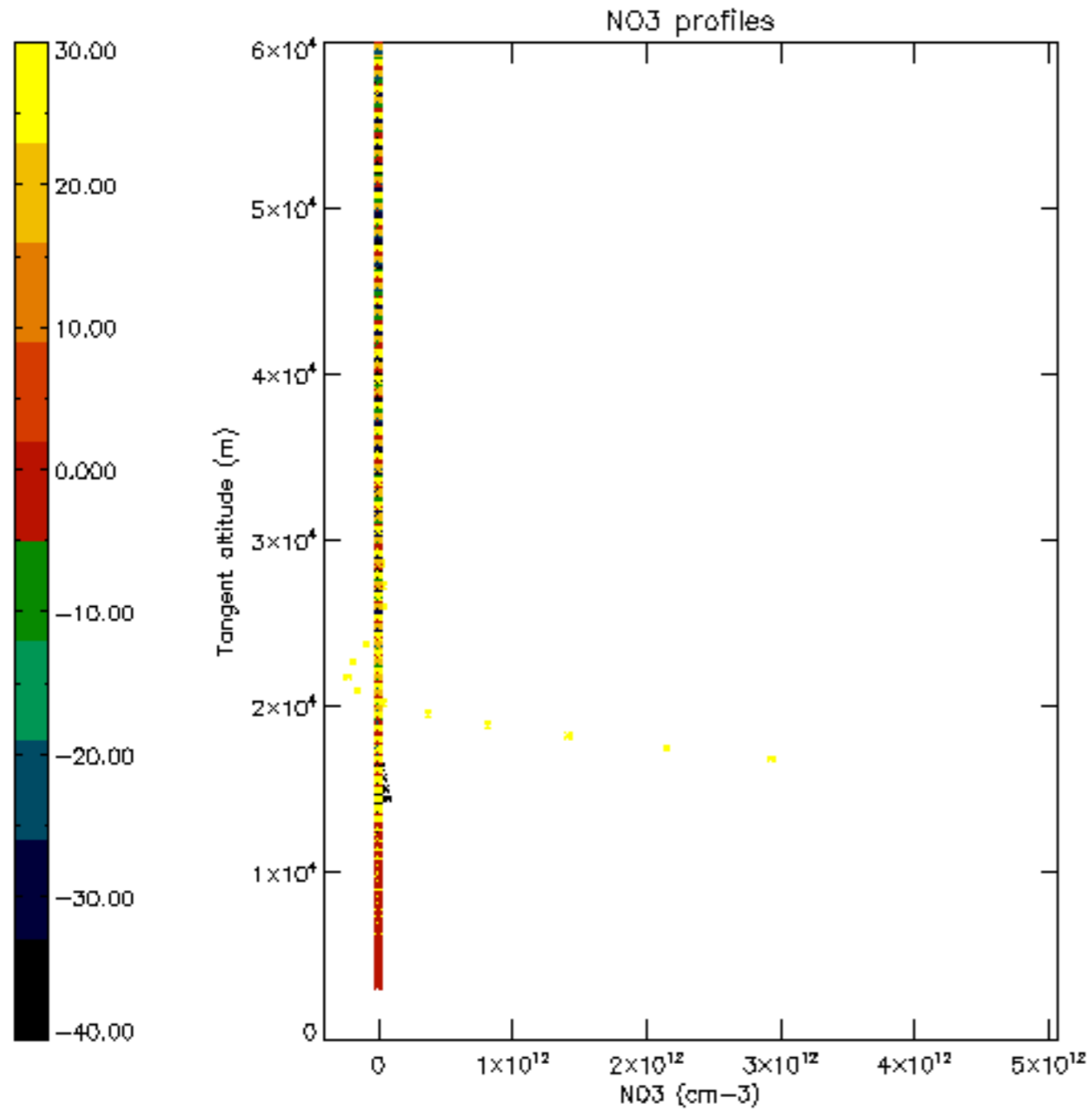


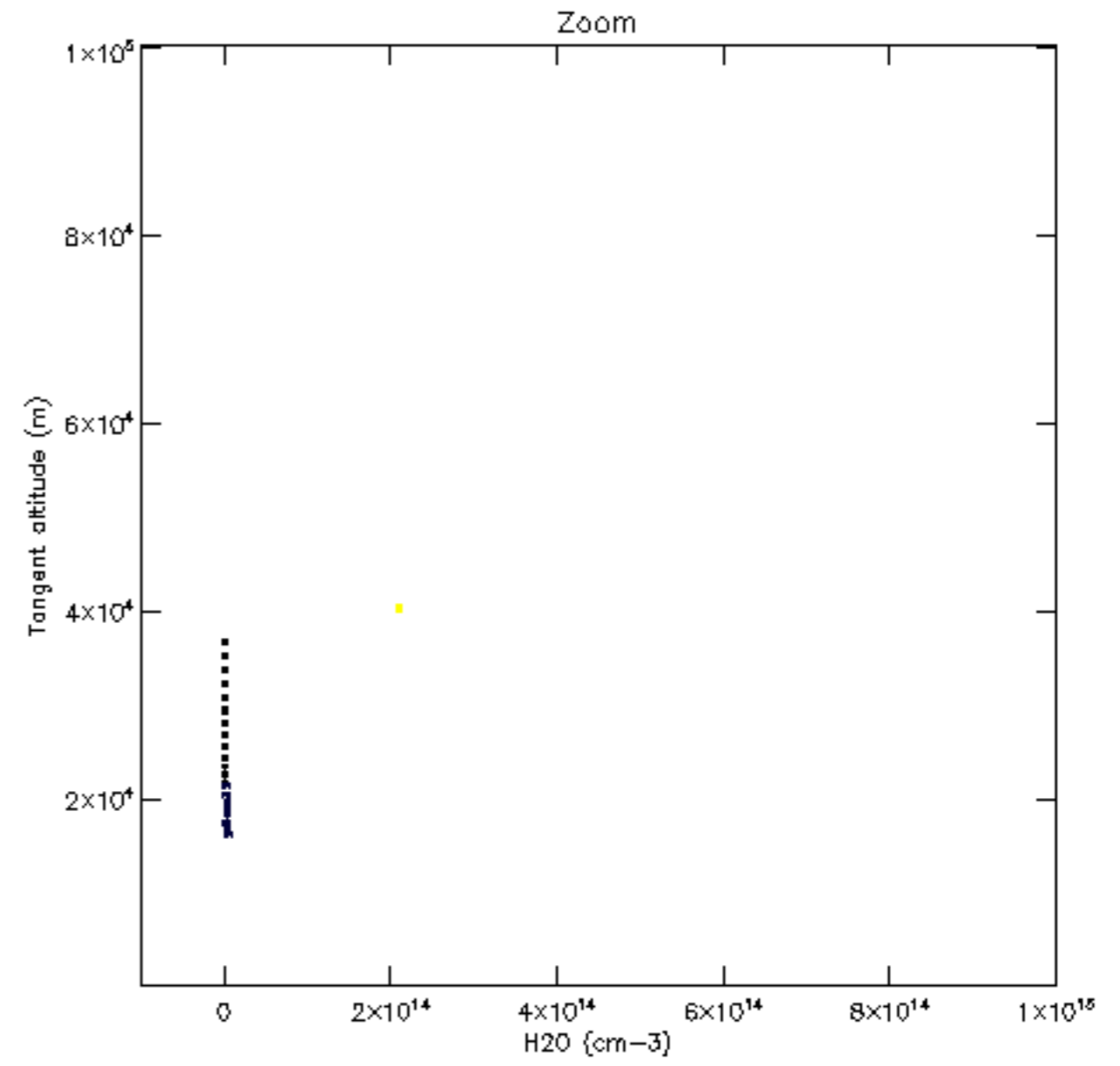
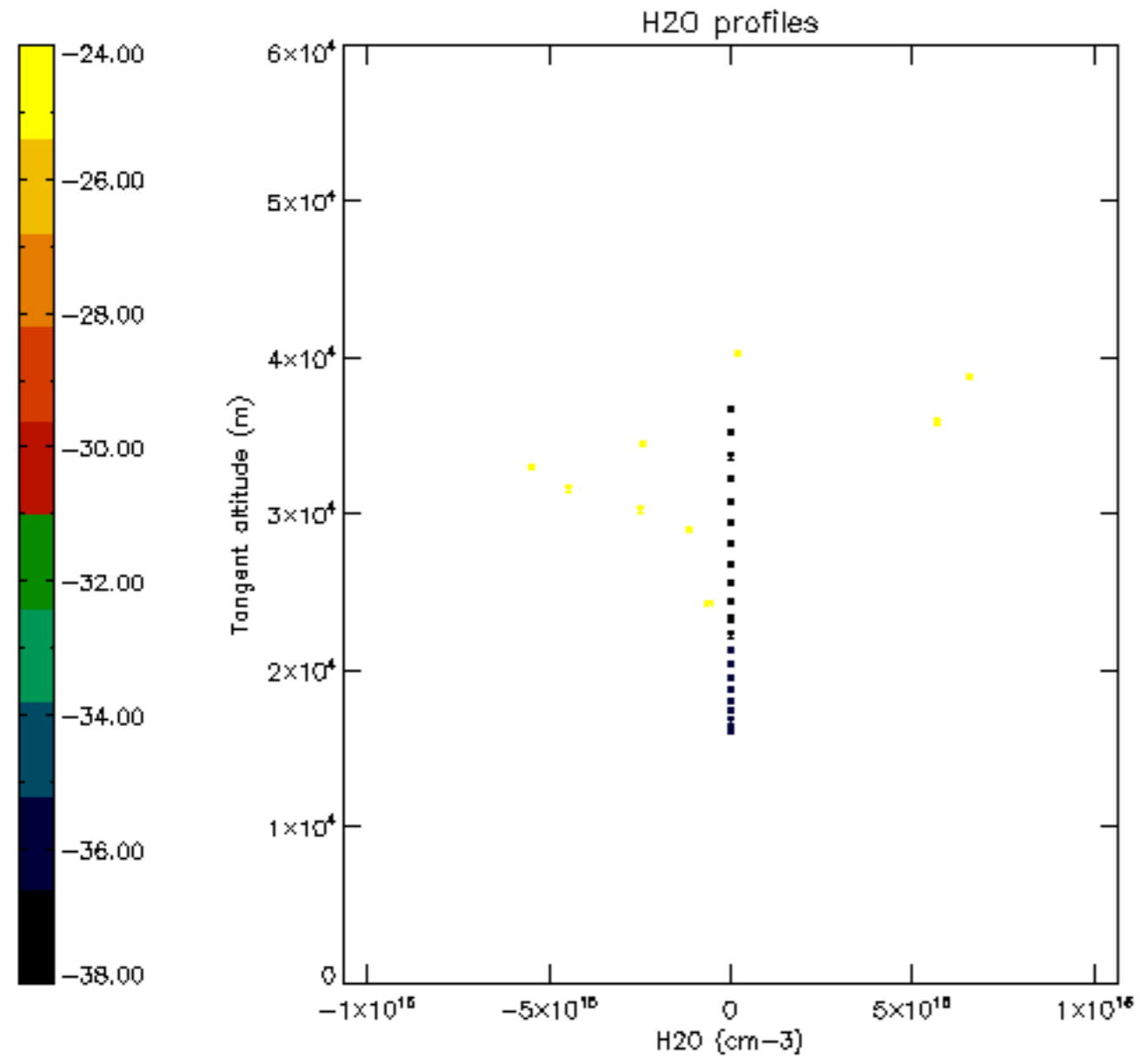


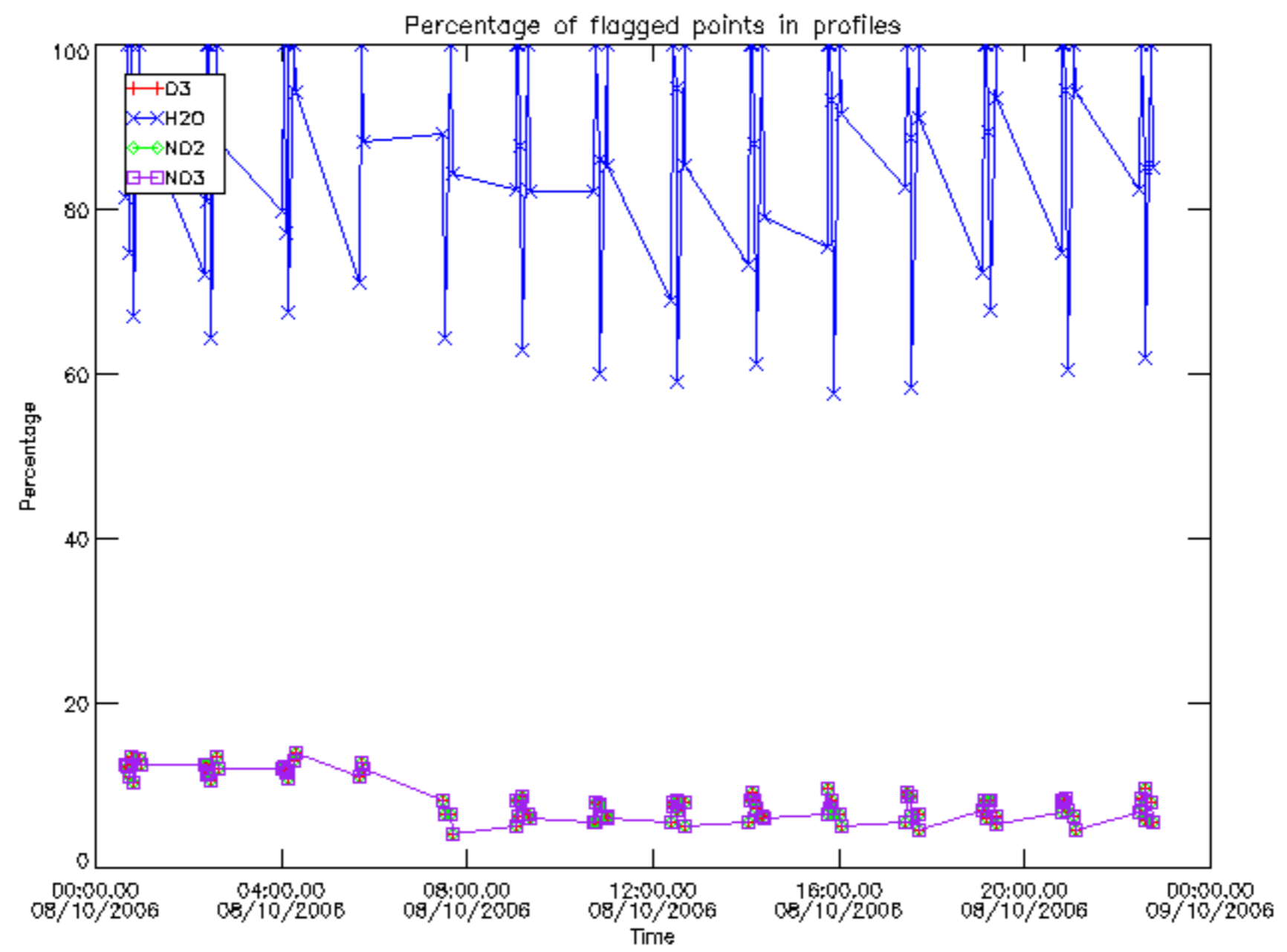




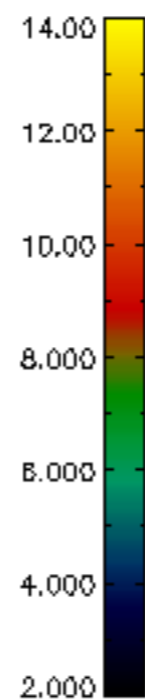
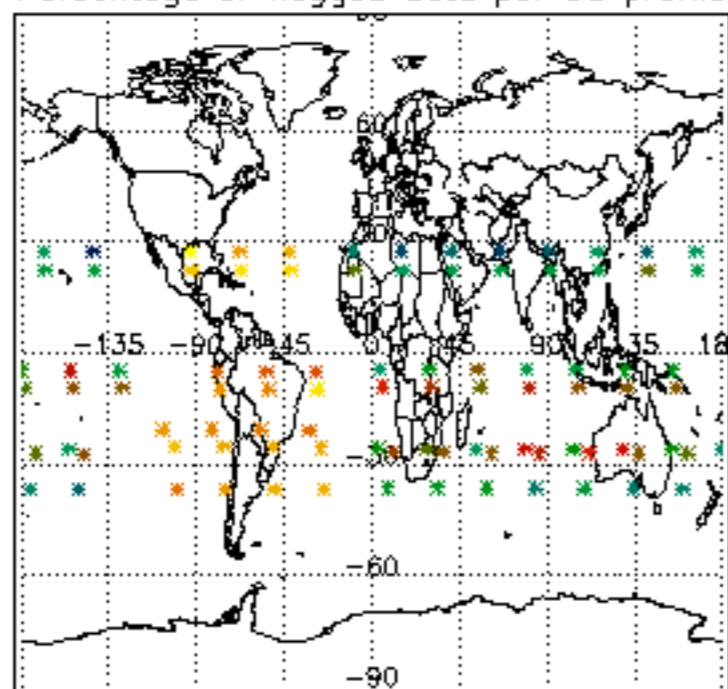




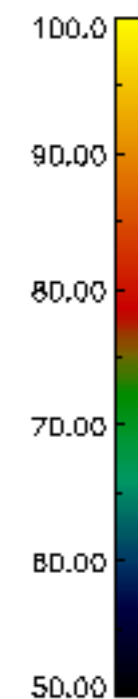
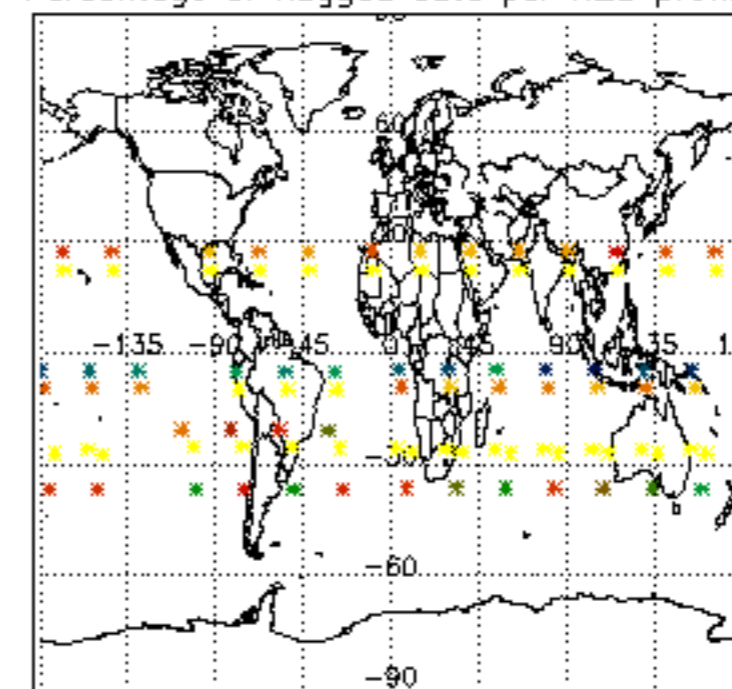




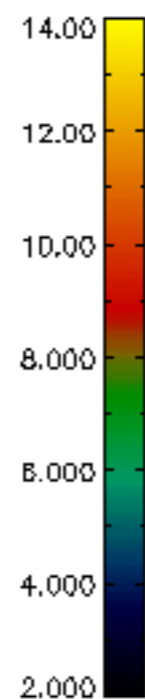
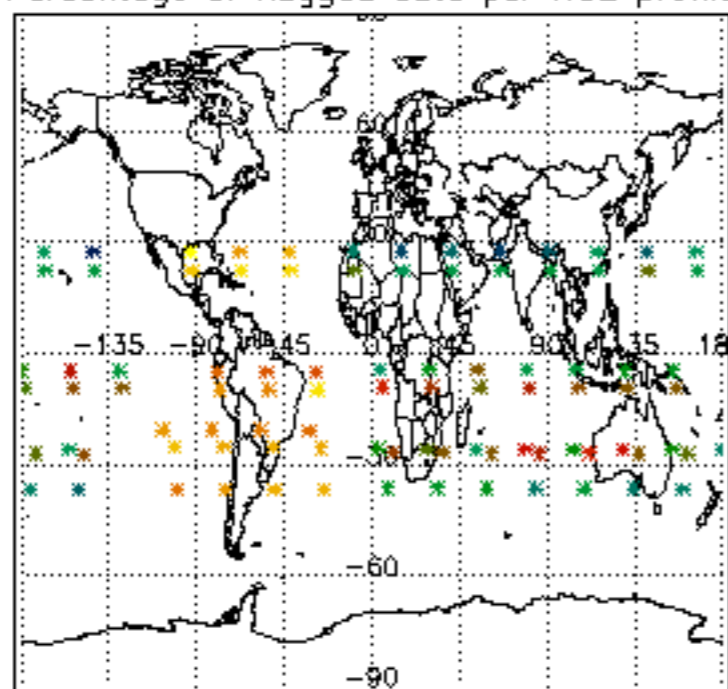
Percentage of flagged data per D3 profile



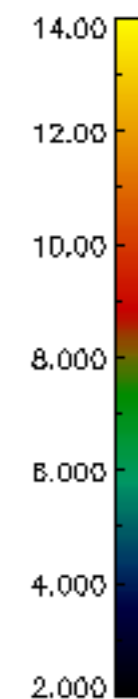
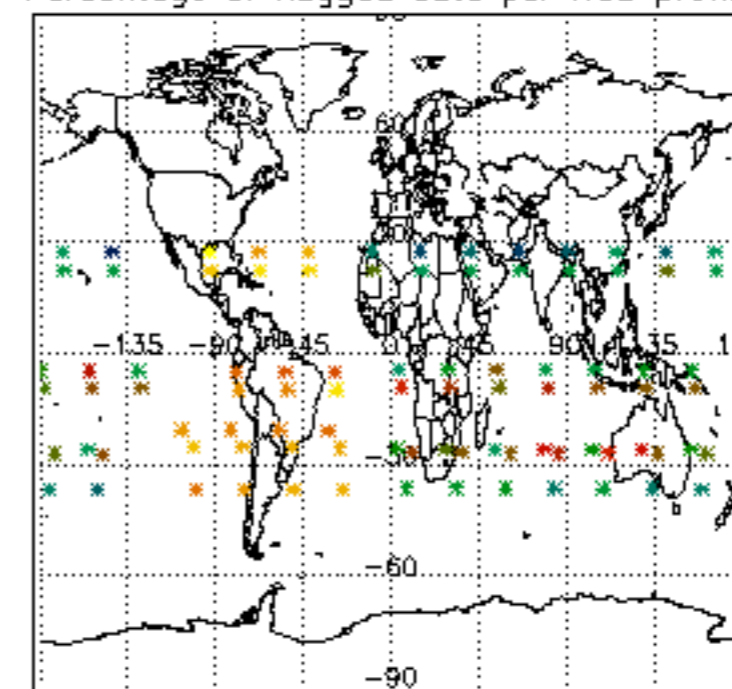
Percentage of flagged data per H2O profile

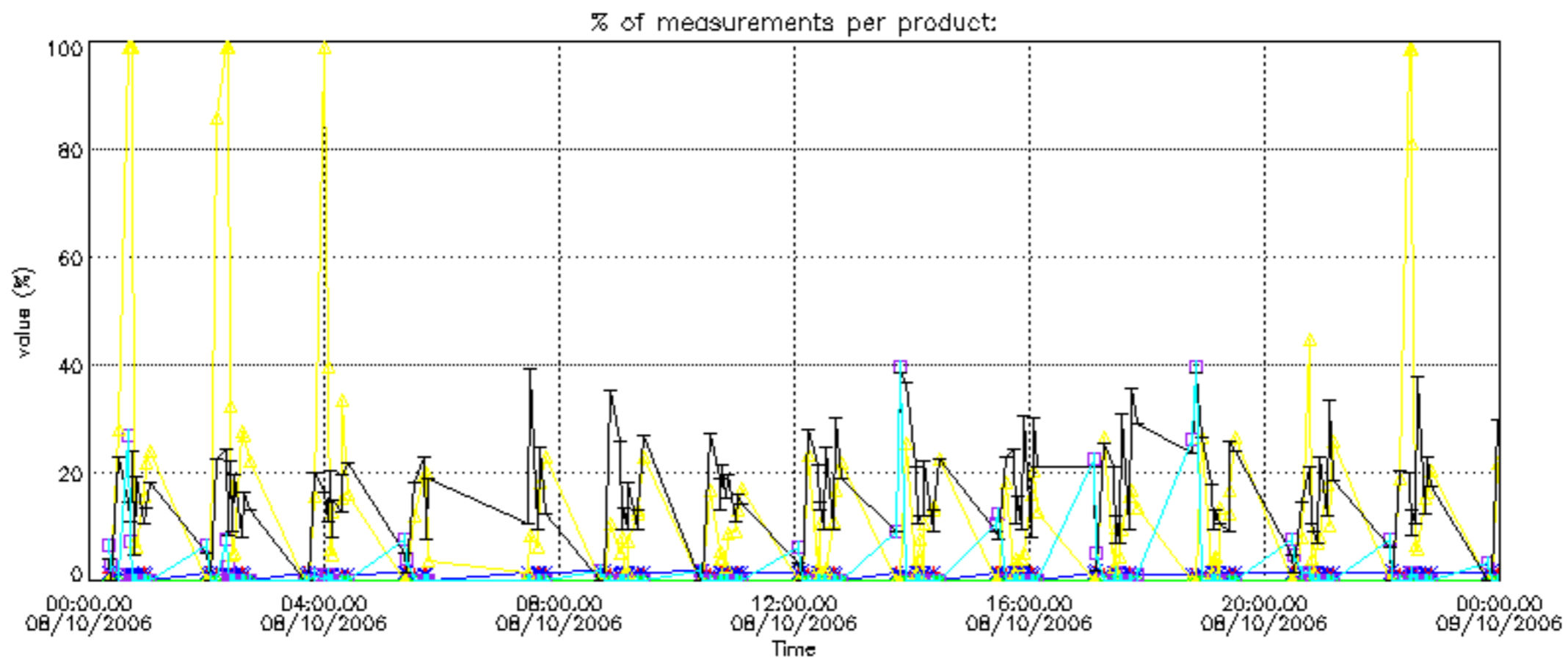


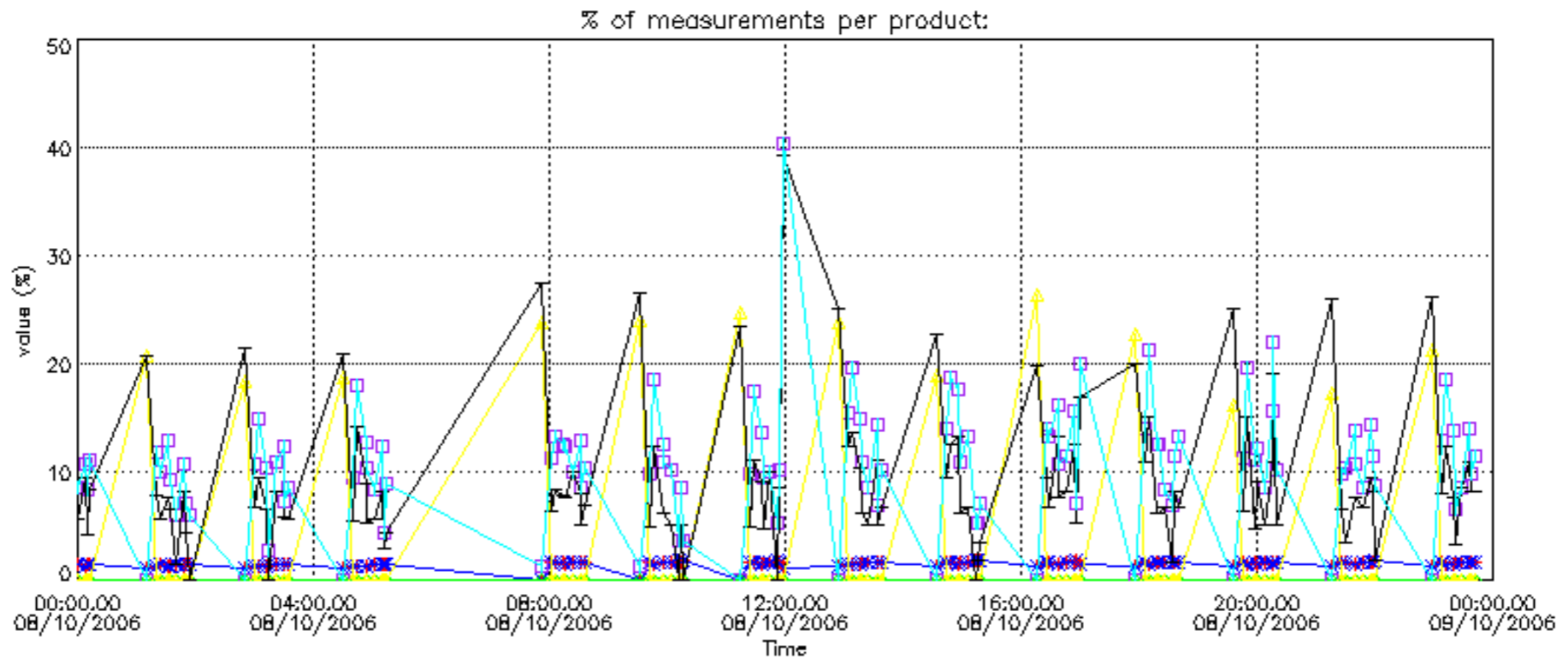
Percentage of flagged data per NO2 profile



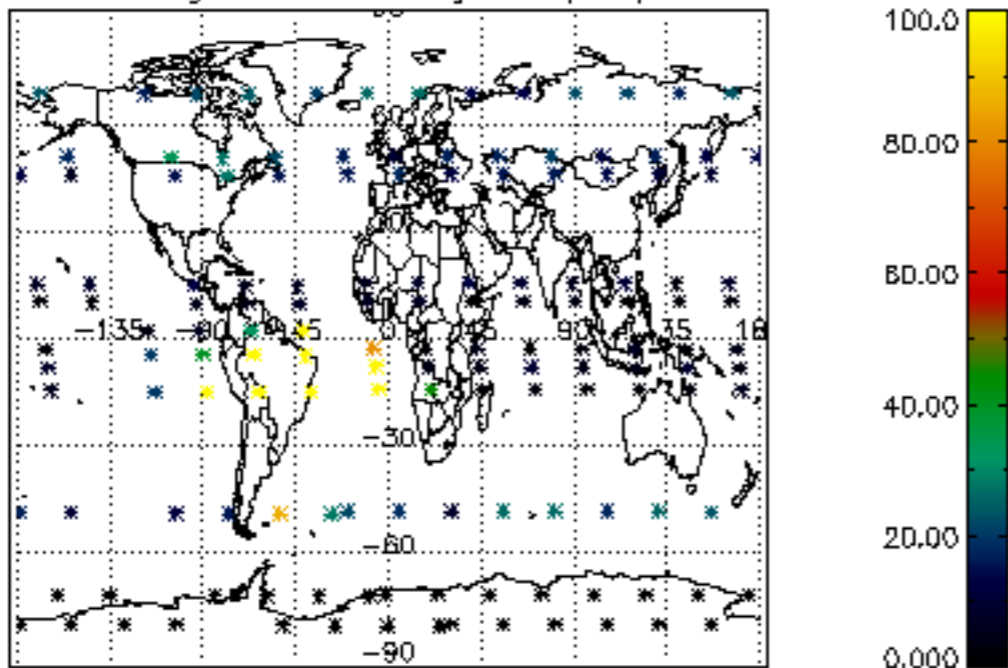
Percentage of flagged data per NO3 profile



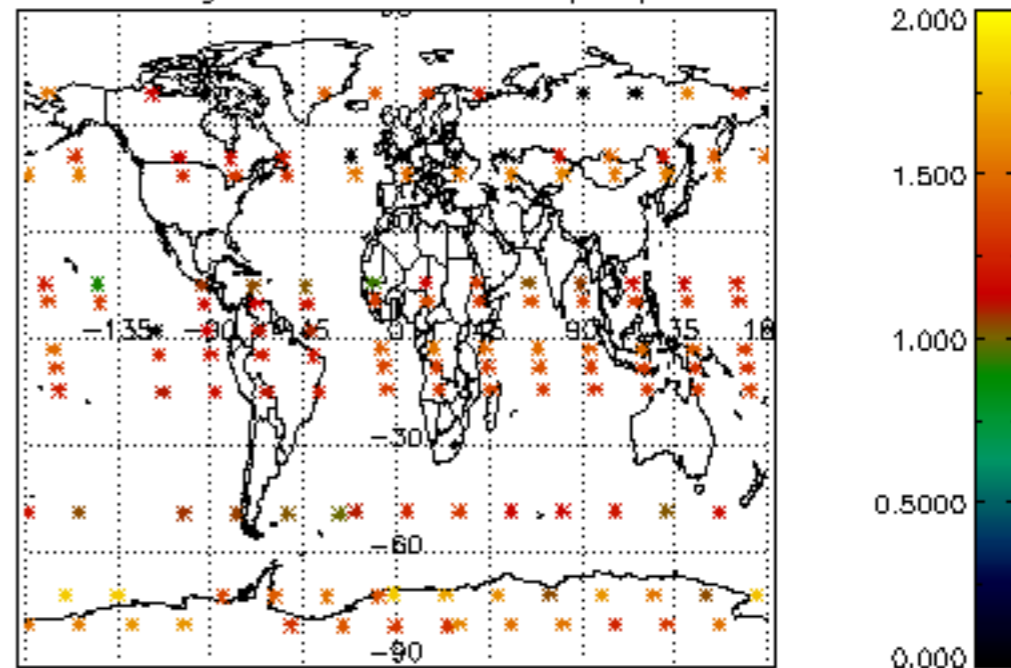




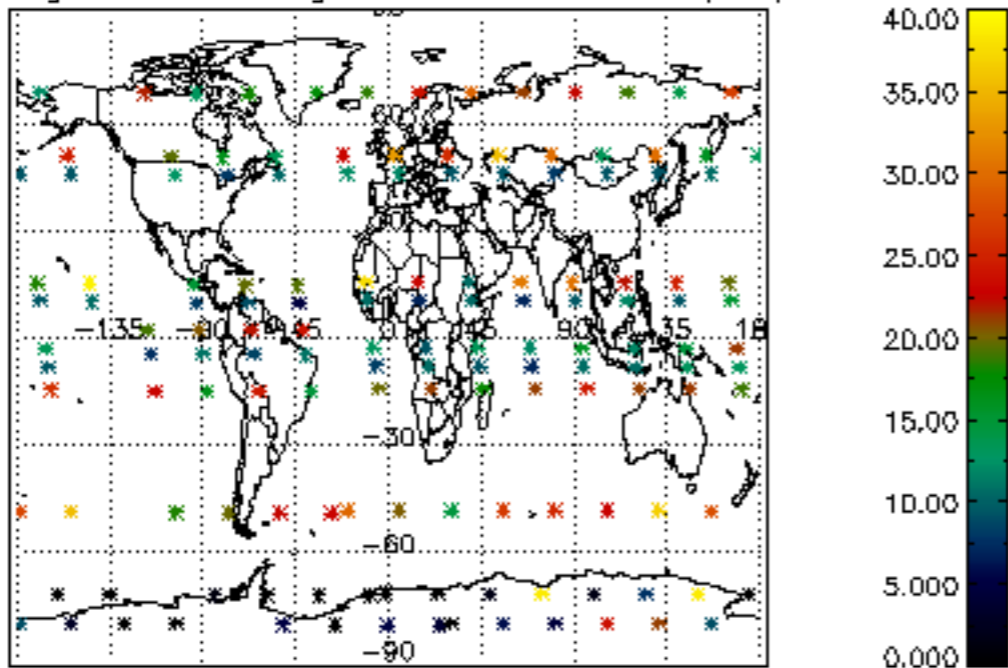
Percentage of cosmic ray hits per profile



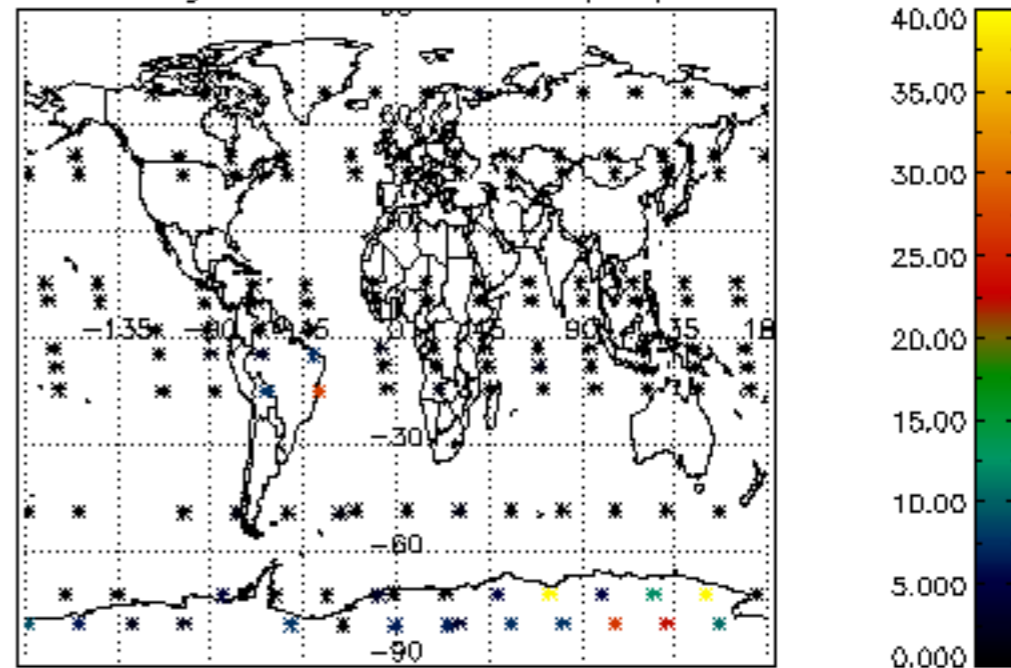
Percentage of datation errors per profile



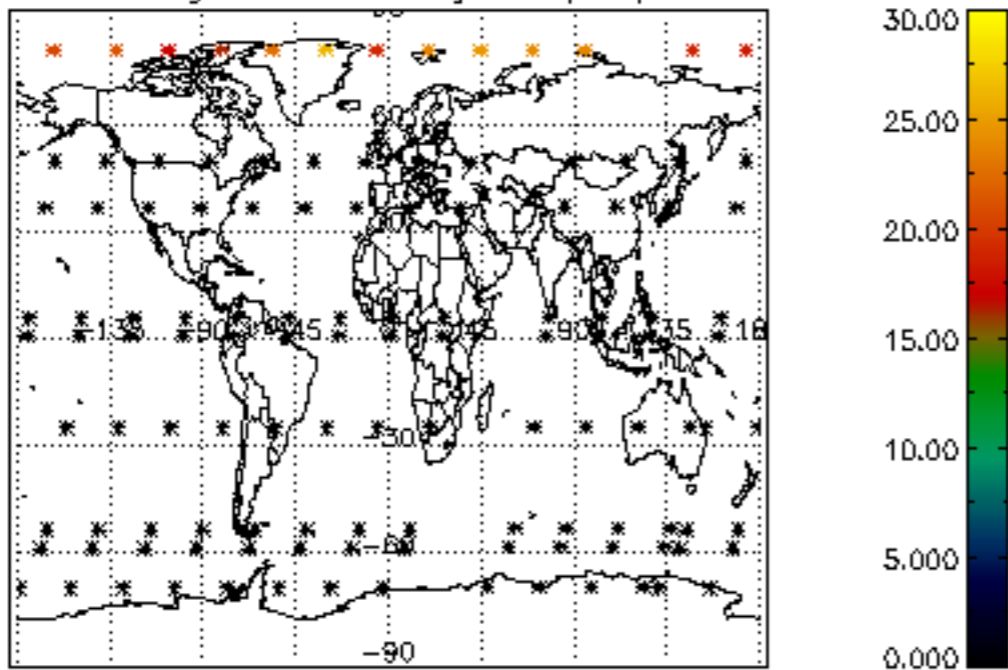
Percentage of star falling outside central band per profile



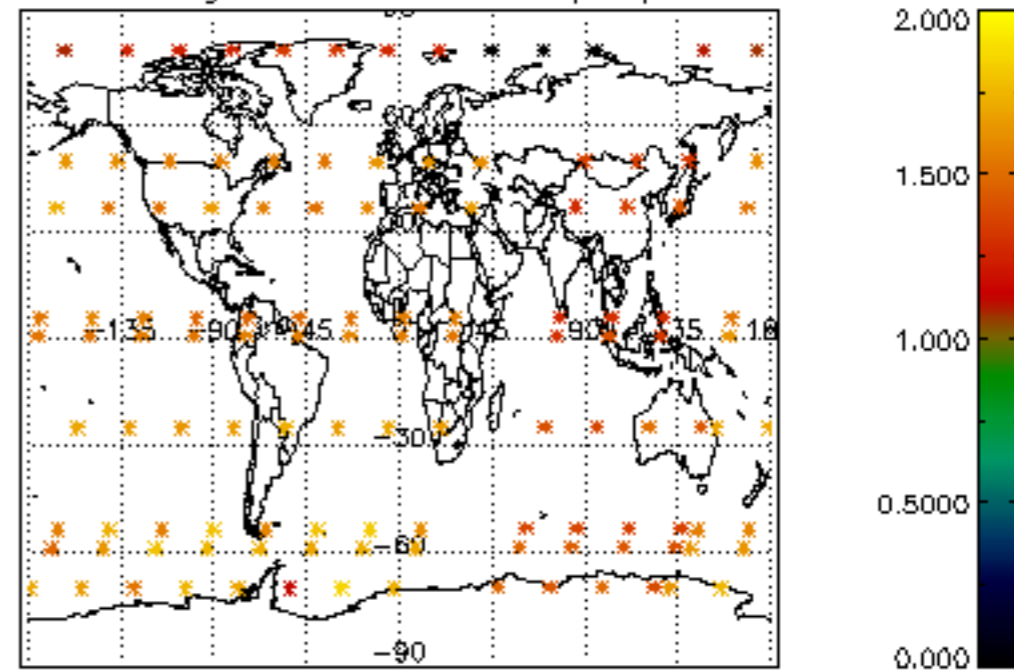
Percentage of saturation errors per profile



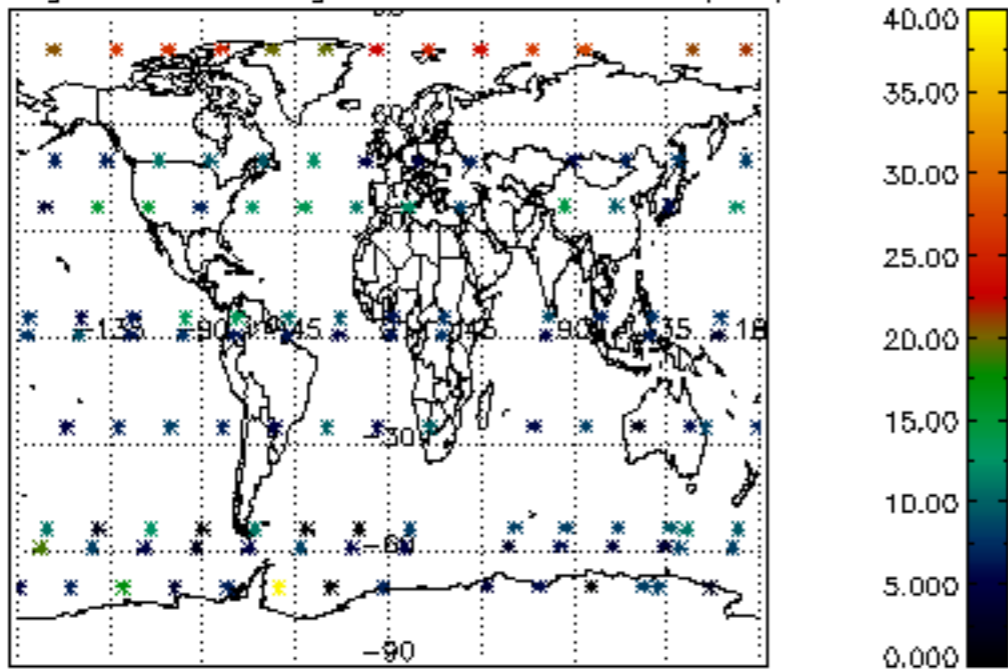
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

