

GOMOS Level 2 Daily Report

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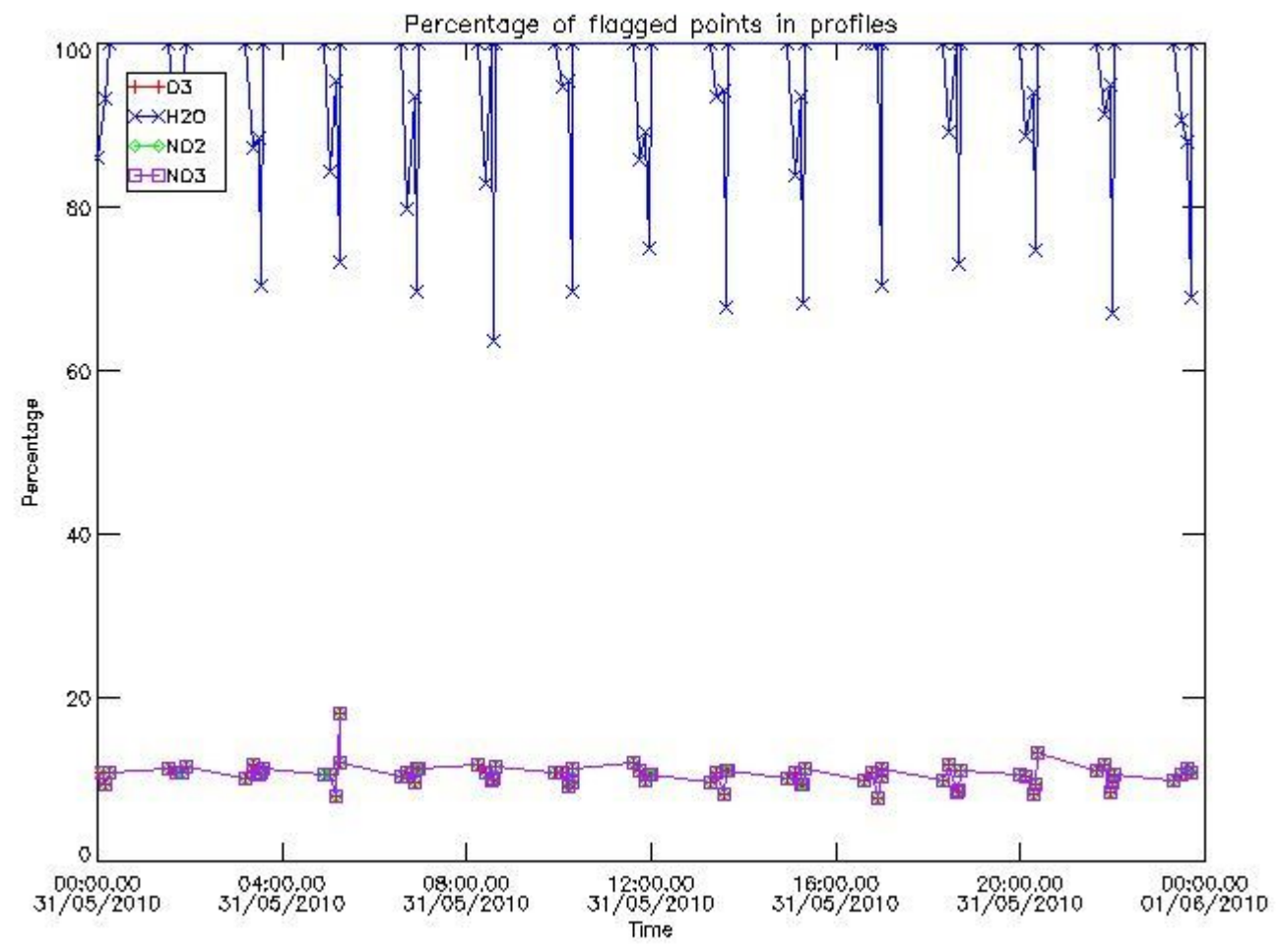
This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P).
It is intended to monitor some important parameters that will impact the quality of these products.
A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also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

Item	Value
Time of report generation	29APR2013 11:23:23
Data source version	GOMOS/6.01
Start time of products	31-05-2010 (31MAY2010 00:00:00)
Stop time of products	01-06-2010 (01JUN2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	328
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

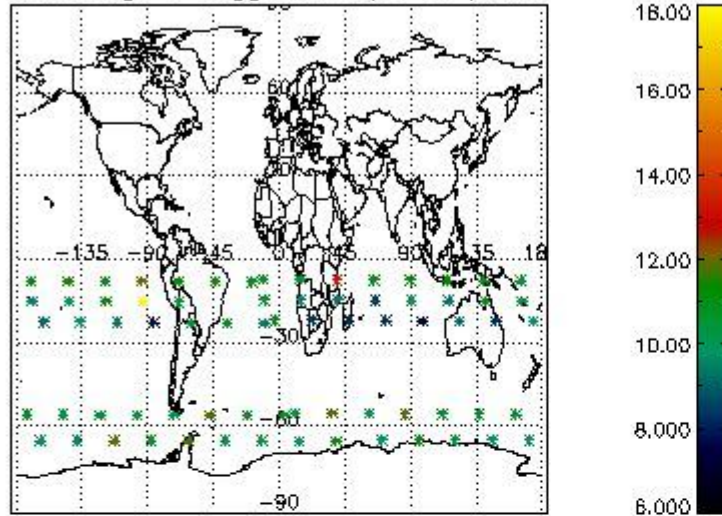
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20100531_000038_00000472089_00488_43127_2407.N1	31-MAY-2010 00:00:38	Dark	47.000	52	16Bet Cet	2.0370	4500.0	94	43127	No
2	GOM_NL__2PRFIN20100531_000908_00000592089_00488_43127_2408.N1	31-MAY-2010 00:09:08	Dark	59.000	18	24Alp PsA	1.1660	9700.0	118	43127	No
3	GOM_NL__2PRFIN20100531_001425_00000472089_00489_43128_2393.N1	31-MAY-2010 00:14:25	Dark	46.500	31	Alp Gru	1.7340	15200.	93	43128	No
4	GOM_NL__2PRFIN20100531_001928_00000452089_00489_43128_2394.N1	31-MAY-2010 00:19:28	Straylight	44.500	45	Alp Pav	1.9400	26000.	89	43128	No
5	GOM_NL__2PRFIN20100531_002700_00000412089_00489_43128_2395.N1	31-MAY-2010 00:27:00	Straylight	41.000	147	Alp Ara	2.8770	26000.	82	43128	No
6	GOM_NL__2PRFIN20100531_002840_00000442089_00489_43128_2396.N1	31-MAY-2010 00:28:40	Straylight	44.000	40	The Sco	1.8590	7100.0	88	43128	No
7	GOM_NL__2PRFIN20100531_003029_00000462089_00489_43128_2397.N1	31-MAY-2010 00:30:29	Twilight	46.000	25	35Lam Sco	1.6200	28000.	92	43128	No
8	GOM_NL__2PRFIN20100531_003218_00000512089_00489_43128_2398.N1	31-MAY-2010 00:32:18	Twilight	50.500	75	26Eps Sco	2.2910	4250.0	101	43128	No
9	GOM_NL__2PRFIN20100531_003421_00000432089_00489_43128_2399.N1	31-MAY-2010 00:34:21	Bright	42.500	136	23Tau Sco	2.8220	30000.	85	43128	No
10	GOM_NL__2PRFIN20100531_003627_00000392089_00489_43128_2400.N1	31-MAY-2010 00:36:27	Bright	38.500	80	7Del Sco	2.3160	30000.	77	43128	No
11	GOM_NL__2PRFIN20100531_003802_00000482089_00489_43128_2401.N1	31-MAY-2010 00:38:02	Bright	47.500	86	35Eta Oph	2.4300	10200.	95	43128	No
12	GOM_NL__2PRFIN20100531_003954_00000442089_00489_43128_2402.N1	31-MAY-2010 00:39:54	Bright	44.000	98	13Zet Oph	2.5710	30000.	88	43128	No
13	GOM_NL__2PRFIN20100531_004206_00000412089_00489_43128_2403.N1	31-MAY-2010 00:42:06	Bright	40.500	120	1Del Oph	2.7340	3200.0	81	43128	No
14	GOM_NL__2PRFIN20100531_004507_00000382089_00489_43128_2404.N1	31-MAY-2010 00:45:07	Bright	37.500	102	24Alp Ser	2.6000	4250.0	75	43128	No
15	GOM_NL__2PRFIN20100531_005103_00000392089_00489_43128_2405.N1	31-MAY-2010 00:51:03	Bright	39.000	67	5Alp CrB	2.2210	11000.	78	43128	No
16	GOM_NL__2PRFIN20100531_005349_00000462089_00489_43128_2406.N1	31-MAY-2010 00:53:49	Bright	45.500	133	40Zet Her	2.8070	6000.0	91	43128	No
17	GOM_NL__2PRFIN20100531_010142_00000382089_00489_43128_2407.N1	31-MAY-2010 01:01:42	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	43128	No
18	GOM_NL__2PRFIN20100531_011211_00000482089_00489_43128_2408.N1	31-MAY-2010 01:12:11	Bright	47.500	89	5Alp Cep	2.4510	8000.0	95	43128	No
19	GOM_NL__2PRFIN20100531_011703_00000552089_00489_43128_2409.N1	31-MAY-2010 01:17:03	Bright	55.000	76	27Gam Cas	2.3000	30000.	110	43128	No
20	GOM_NL__2PRFIN20100531_012444_00000442089_00489_43128_2410.N1	31-MAY-2010 01:24:44	Bright	43.500	53	43Bet And	2.0480	3300.0	87	43128	No
21	GOM_NL__2PRFIN20100531_012725_00000532089_00489_43128_2411.N1	31-MAY-2010 01:27:25	Twilight	52.500	58	21Alp And	2.0730	11000.	105	43128	No
22	GOM_NL__2PRFIN20100531_013216_00000502089_00489_43128_2412.N1	31-MAY-2010 01:32:16	Dark	49.500	140	88Gam Peg	2.8340	26000.	99	43128	No
23	GOM_NL__2PRFIN20100531_014114_00000472089_00489_43128_2413.N1	31-MAY-2010 01:41:14	Dark	46.500	52	16Bet Cet	2.0370	4500.0	93	43128	No
24	GOM_NL__2PRFIN20100531_014945_00000612089_00489_43128_2414.N1	31-MAY-2010 01:49:45	Dark	60.500	18	24Alp PsA	1.1660	9700.0	121	43128	No
25	GOM_NL__2PRFIN20100531_015502_00000452089_00490_43129_2423.N1	31-MAY-2010 01:55:02	Dark	44.500	31	Alp Gru	1.7340	15200.	89	43129	No
26	GOM_NL__2PRFIN20100531_020005_00000422089_00490_43129_2424.N1	31-MAY-2010 02:00:05	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	43129	No
27	GOM_NL__2PRFIN20100531_020736_00000402089_00490_43129_2425.N1	31-MAY-2010 02:07:36	Straylight	40.000	147	Alp Ara	2.8770	26000.	80	43129	No
28	GOM_NL__2PRFIN20100531_020917_00000472089_00490_43129_2426.N1	31-MAY-2010 02:09:17	Straylight	46.500	40	The Sco	1.8590	7100.0	93	43129	No
29	GOM_NL__2PRFIN20100531_021105_00000492089_00490_43129_2427.N1	31-MAY-2010 02:11:05	Twilight	48.500	25	35Lam Sco	1.6200	28000.	97	43129	No
30	GOM_NL__2PRFIN20100531_021253_00000482089_00490_43129_2428.N1	31-MAY-2010 02:12:53	Twilight	47.500	75	26Eps Sco	2.2910	4250.0	95	43129	No
31	GOM_NL__2PRFIN20100531_021457_00000442089_00490_43129_2429.N1	31-MAY-2010 02:14:57	Bright	44.000	136	23Tau Sco	2.8220	30000.	88	43129	No
32	GOM_NL__2PRFIN20100531_021703_00000412089_00490_43129_2430.N1	31-MAY-2010 02:17:03	Bright	41.000	80	7Del Sco	2.3160	30000.	82	43129	No
33	GOM_NL__2PRFIN20100531_021837_00000472089_00490_43129_2431.N1	31-MAY-2010 02:18:37	Bright	47.000	86	35Eta Oph	2.4300	10200.	94	43129	No
34	GOM_NL__2PRFIN20100531_022030_00000432089_00490_43129_2432.N1	31-MAY-2010 02:20:30	Bright	43.000	98	13Zet Oph	2.5710	30000.	86	43129	No
35	GOM_NL__2PRFIN20100531_022242_00000412089_00490_43129_2433.N1	31-MAY-2010 02:22:42	Bright	40.500	120	1Del Oph	2.7340	3200.0	81	43129	No
36	GOM_NL__2PRFIN20100531_022543_00000382089_00490_43129_2434.N1	31-MAY-2010 02:25:43	Bright	37.500	102	24Alp Ser	2.6000	4250.0	75	43129	No
37	GOM_NL__2PRFIN20100531_023139_00000402089_00490_43129_2435.N1	31-MAY-2010 02:31:39	Bright	39.500	67	5Alp CrB	2.2210	11000.	79	43129	No
38	GOM_NL__2PRFIN20100531_023425_00000452089_00490_43129_2436.N1	31-MAY-2010 02:34:25	Bright	45.000	133	40Zet Her	2.8070	6000.0	90	43129	No
39	GOM_NL__2PRFIN20100531_024217_00000392089_00490_43129_2437.N1	31-MAY-2010 02:42:17	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	43129	No
40	GOM_NL__2PRFIN20100531_025247_00000472089_00490_43129_2438.N1	31-MAY-2010 02:52:47	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	43129	No
41	GOM_NL__2PRFIN20100531_025738_00000412089_00490_43129_2439.N1	31-MAY-2010 02:57:38	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	43129	No
42	GOM_NL__2PRFIN20100531_030521_00000442089_00490_43129_2440.N1	31-MAY-2010 03:05:21	Bright	43.500	53	43Bet And	2.0480	3300.0	87	43129	No

3.1 Plot quality information per product (time dependant)

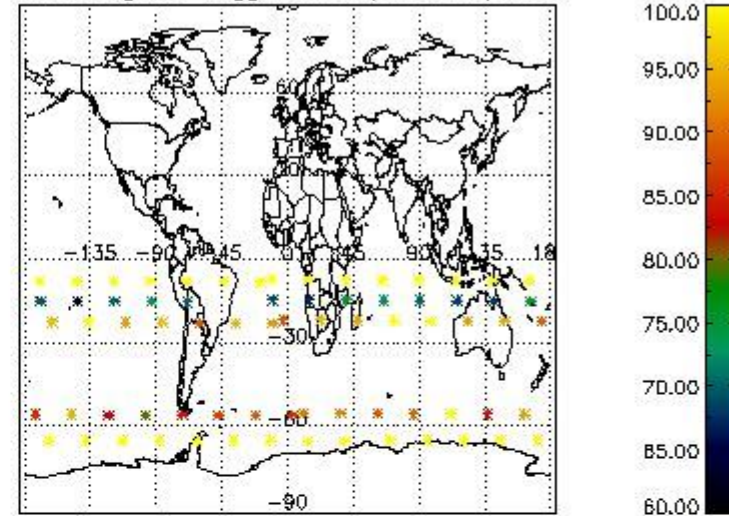


3.2 Plot quality information per product (world map)

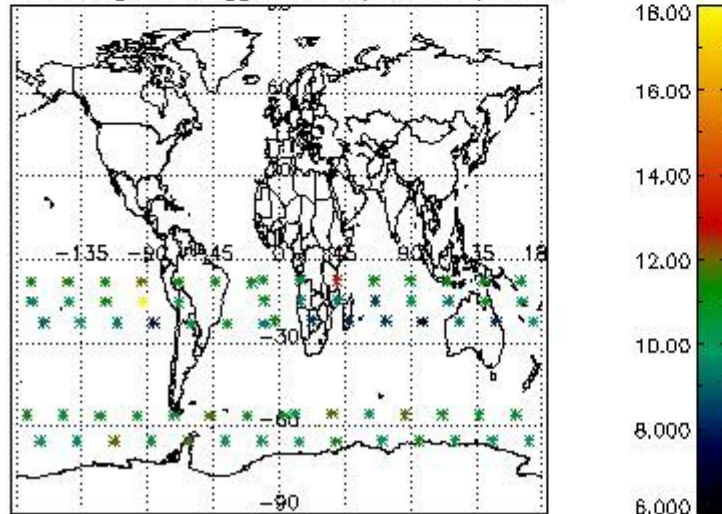
Percentage of flagged data per O3 profile



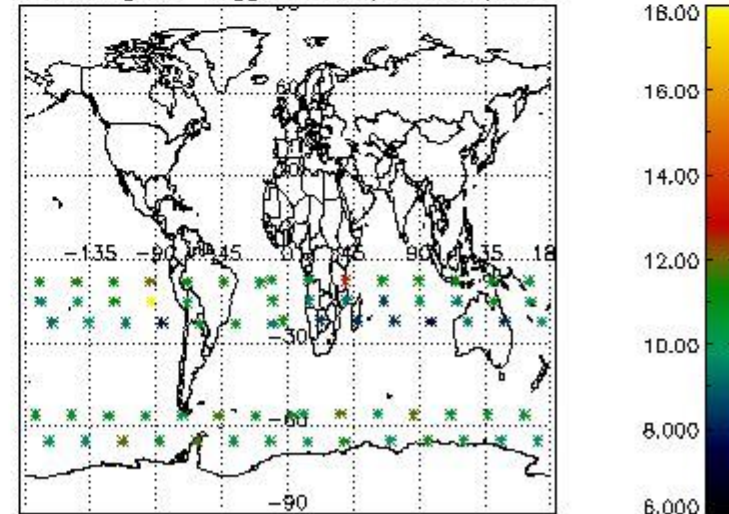
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

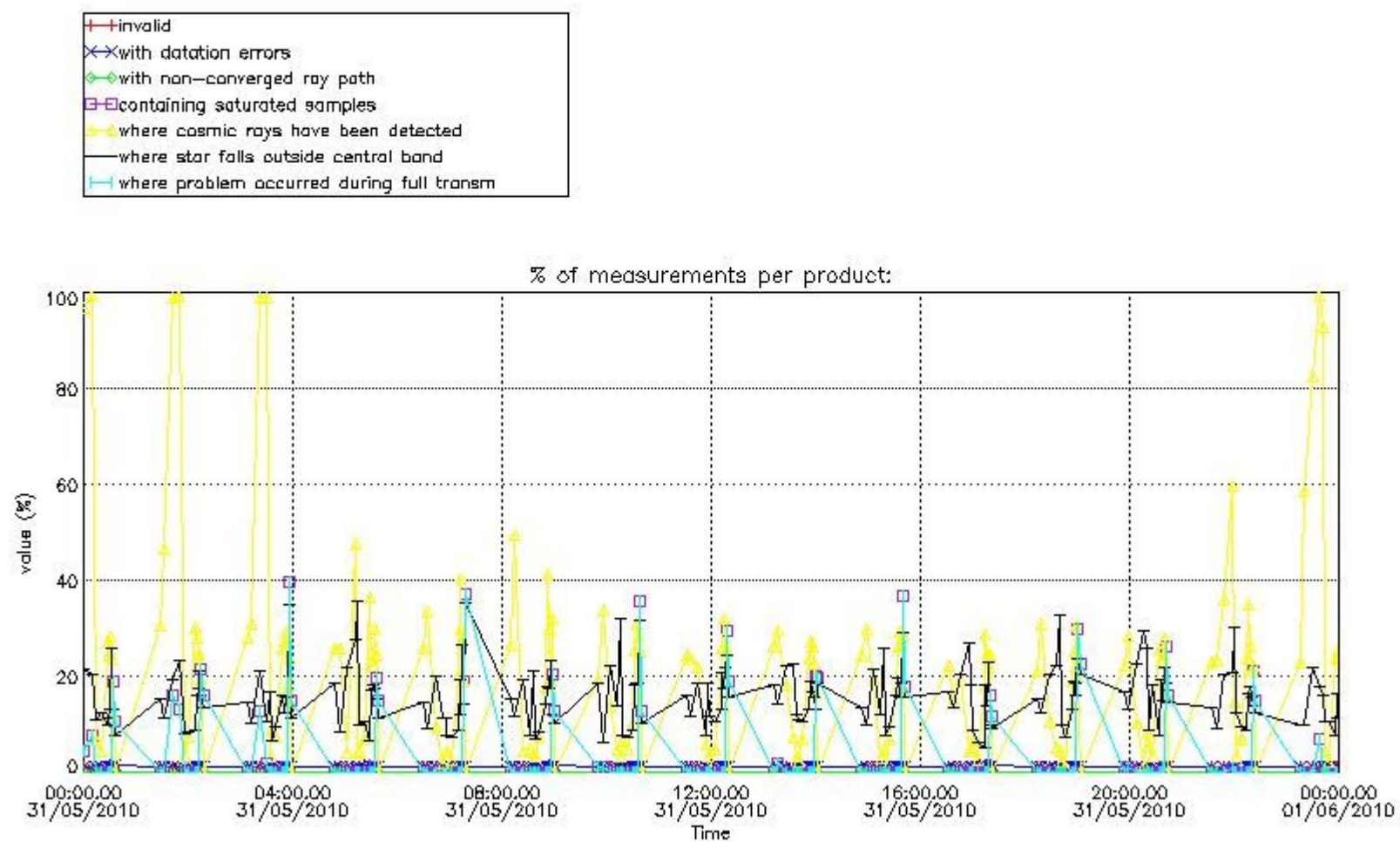


4. Level 1 quality information per product

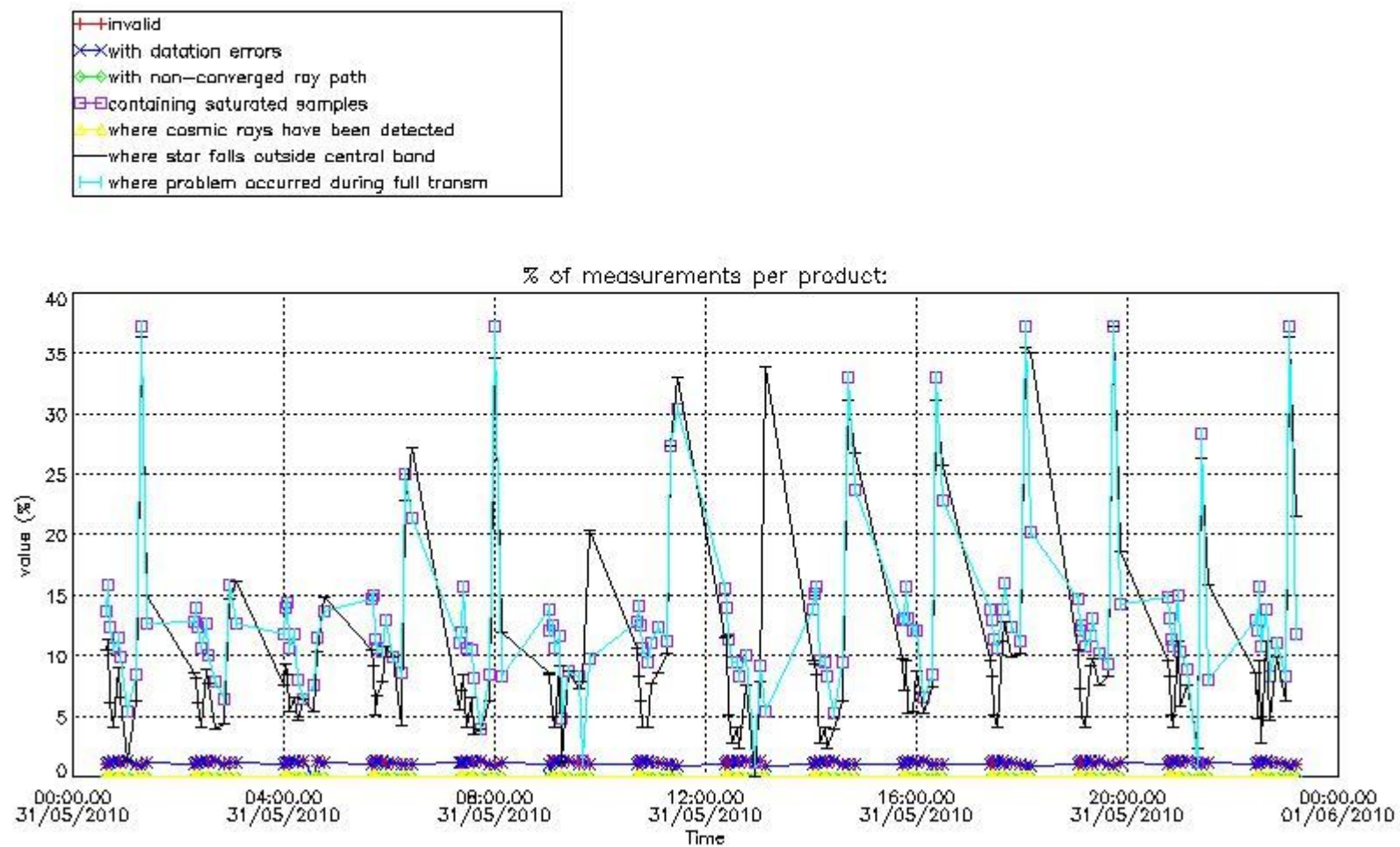
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



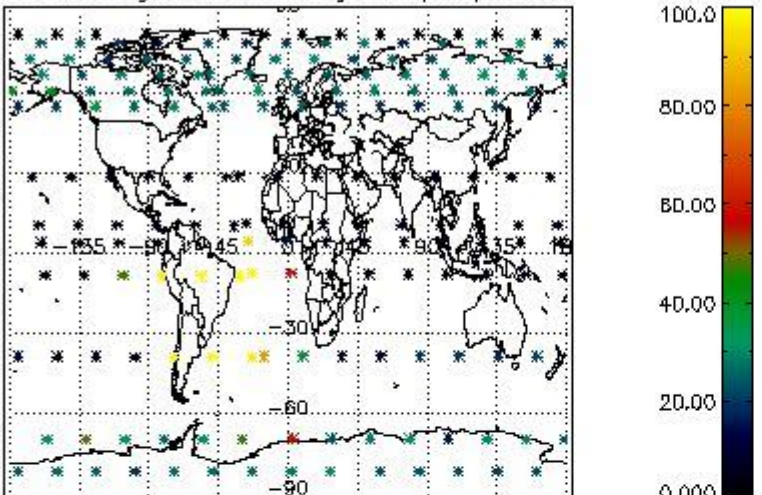
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



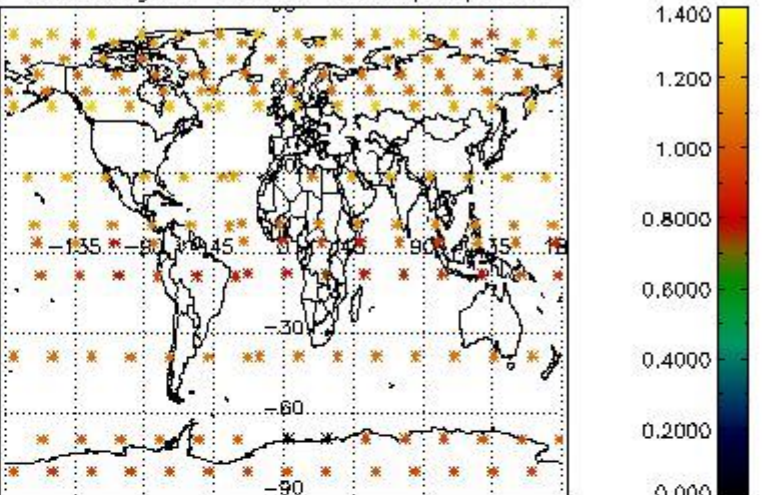
4.2 Plot quality information per product coming from level 1b processing (world map)

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

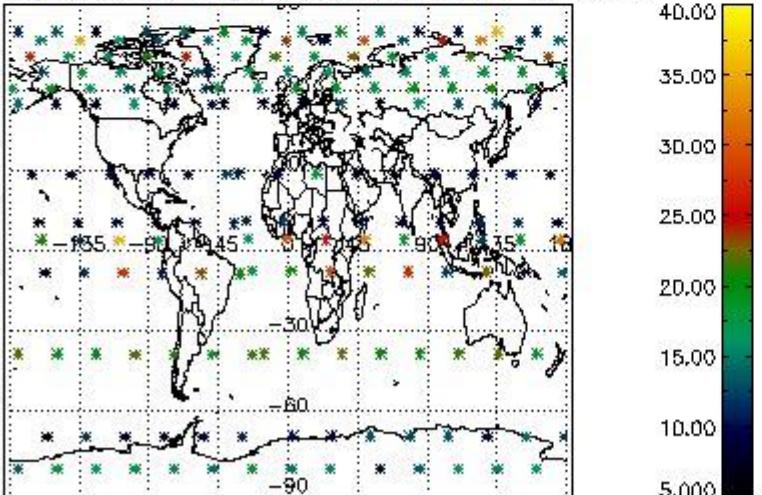
Percentage of cosmic ray hits per profile



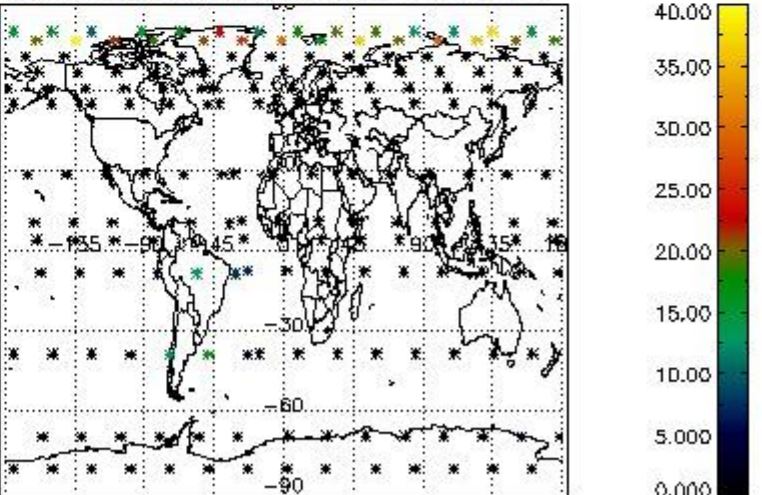
Percentage of datation errors per profile



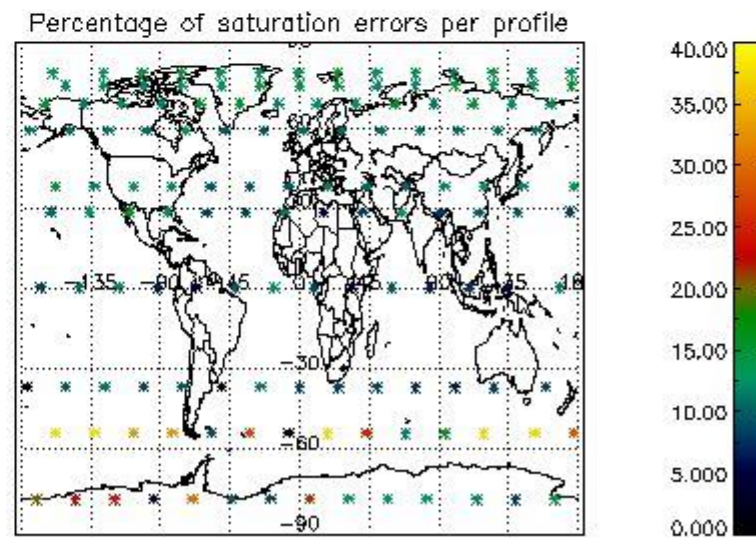
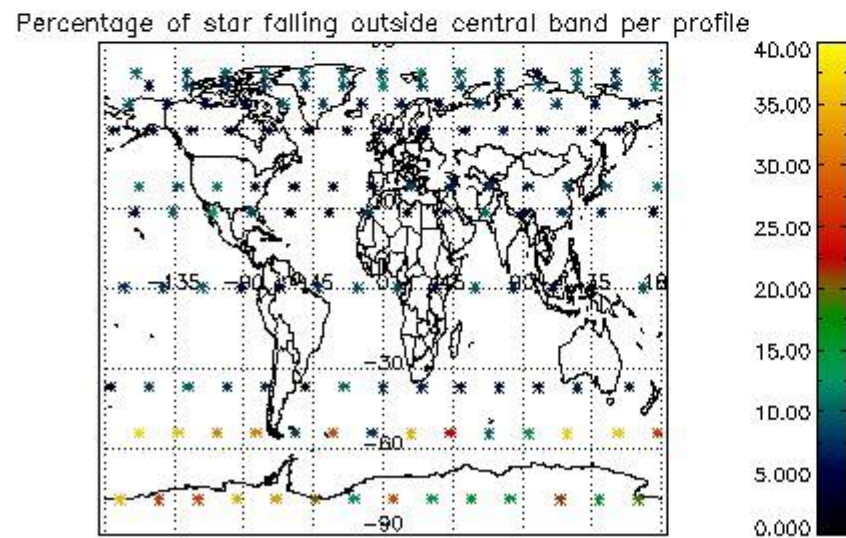
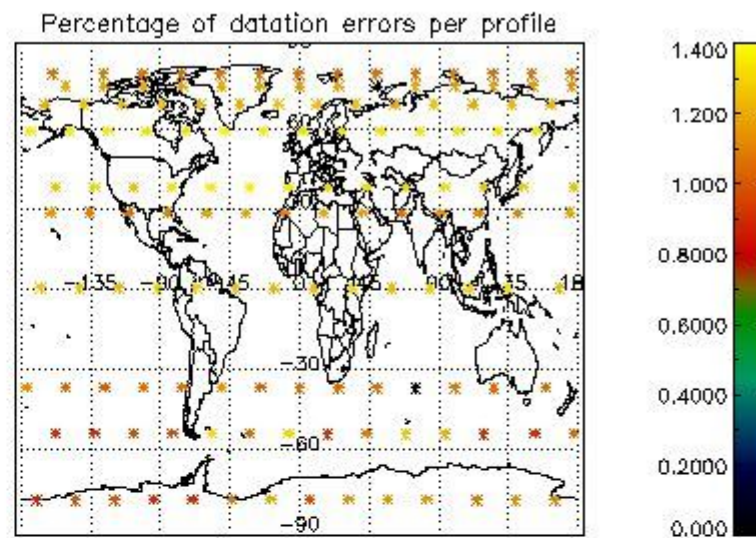
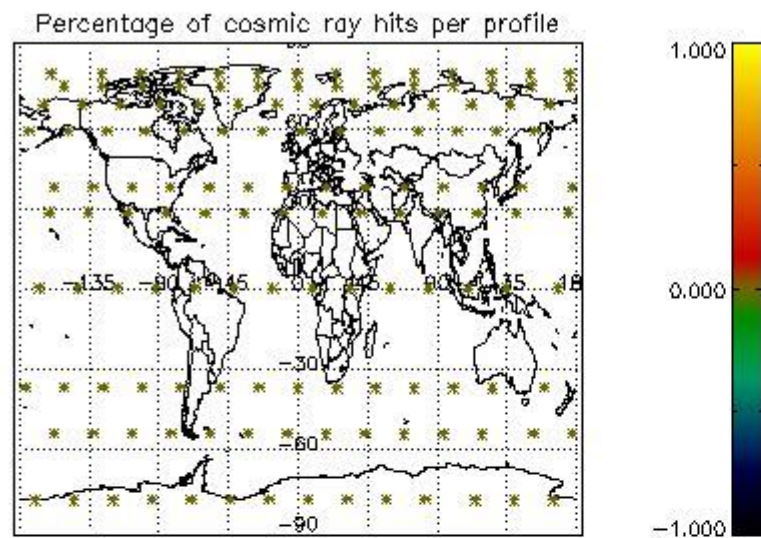
Percentage of star falling outside central band per profile



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

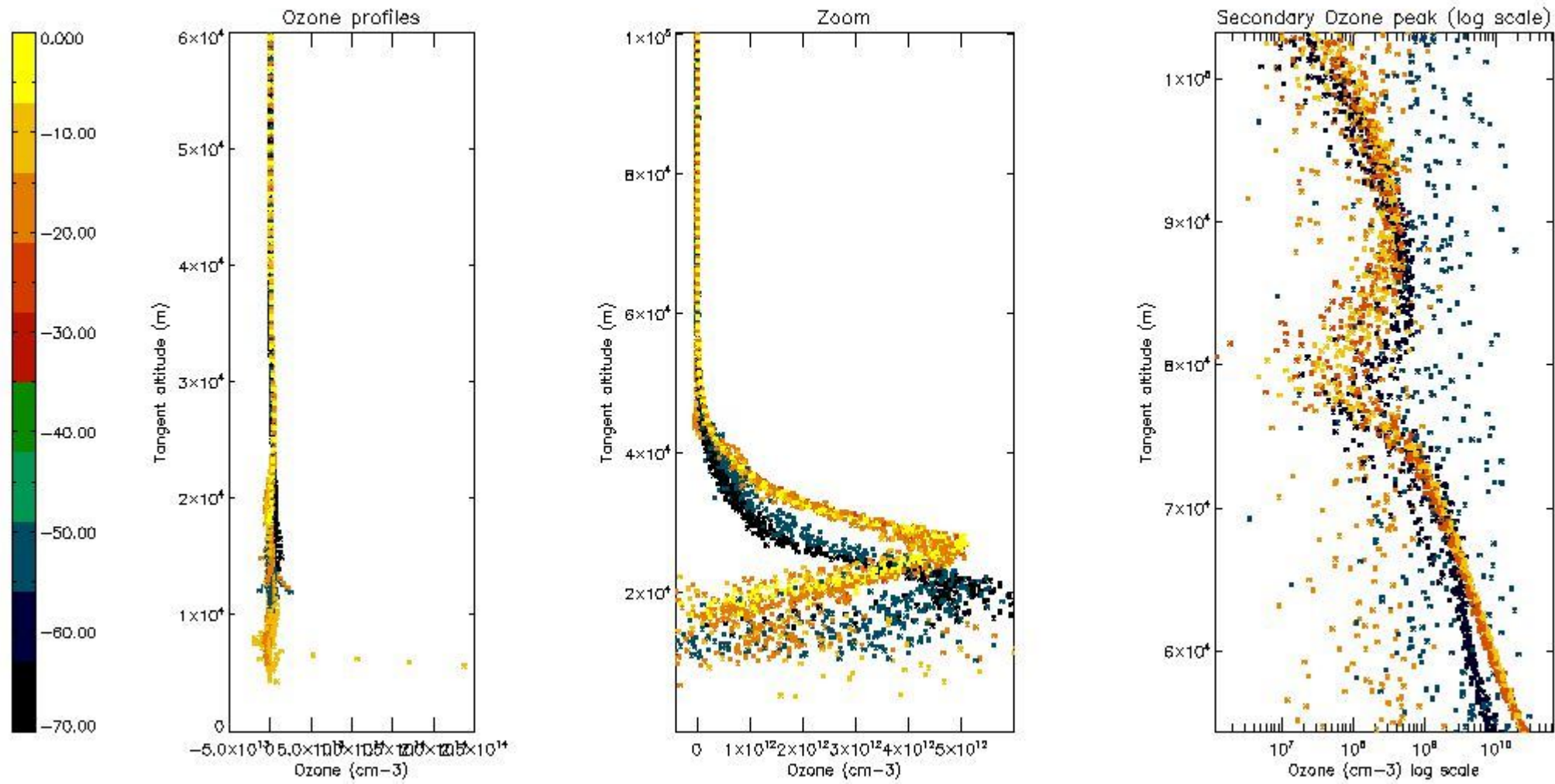
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	25
STD < 20	12

STD < 10	9
STD < 5	6

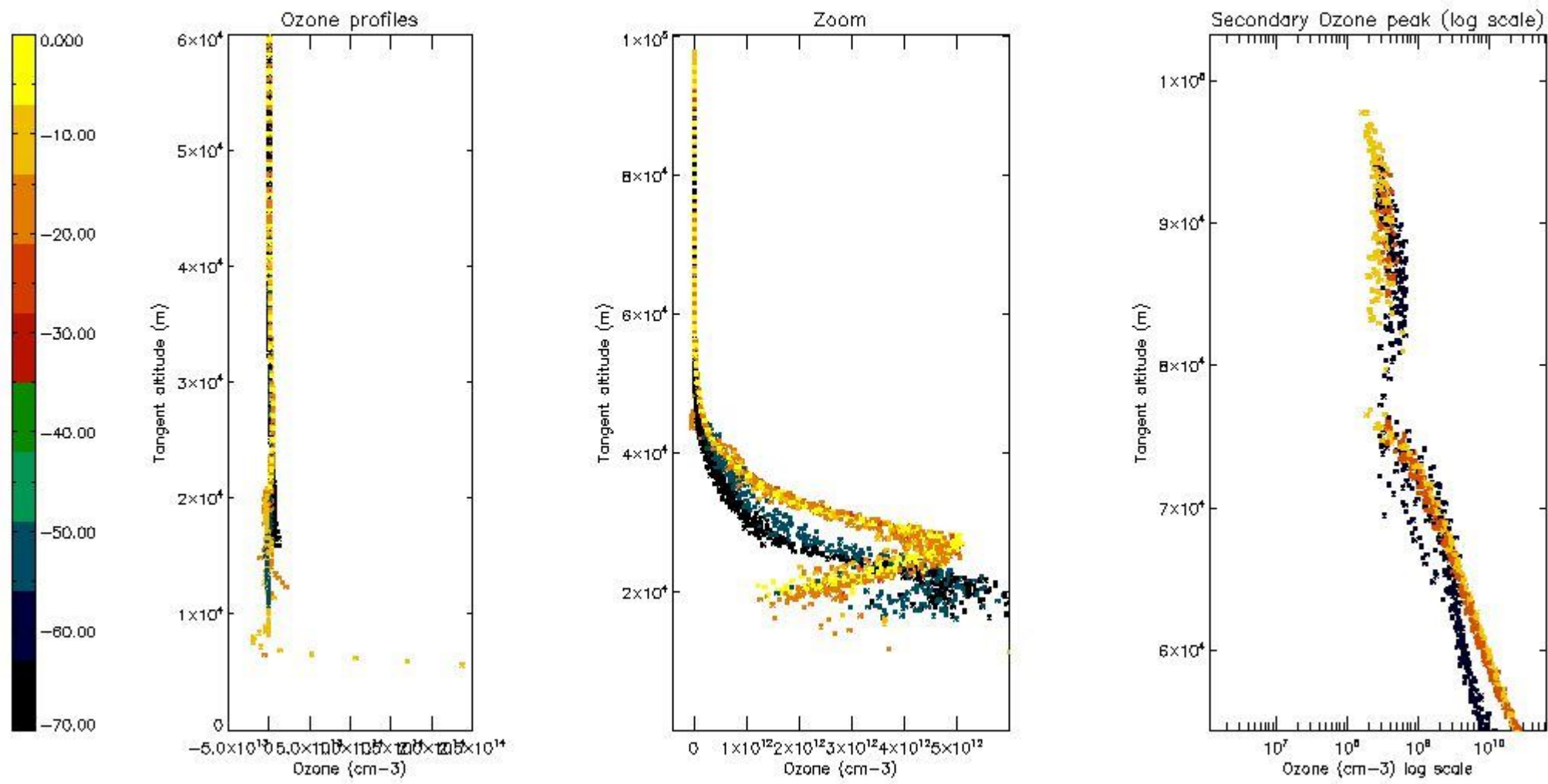
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



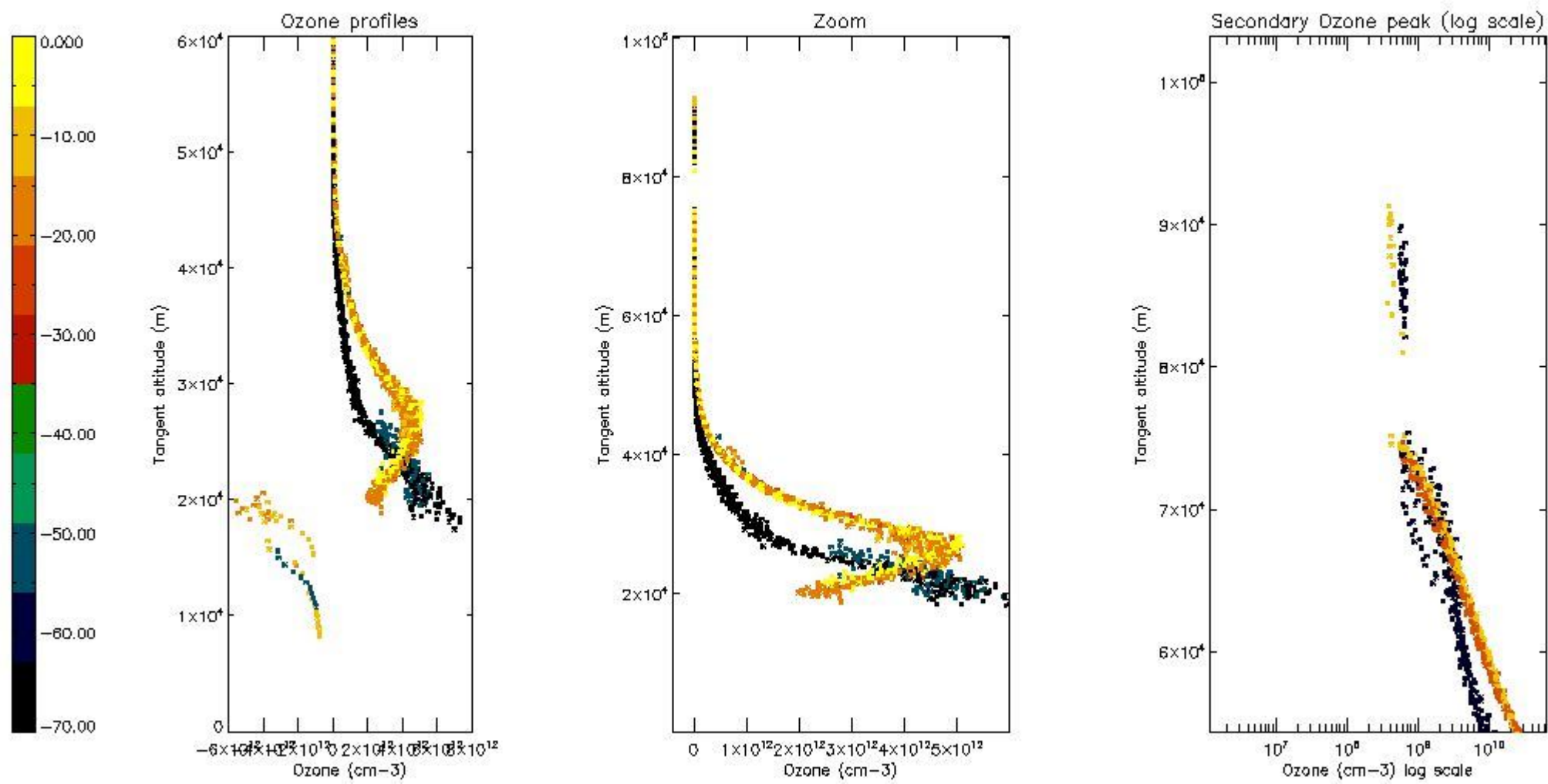
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



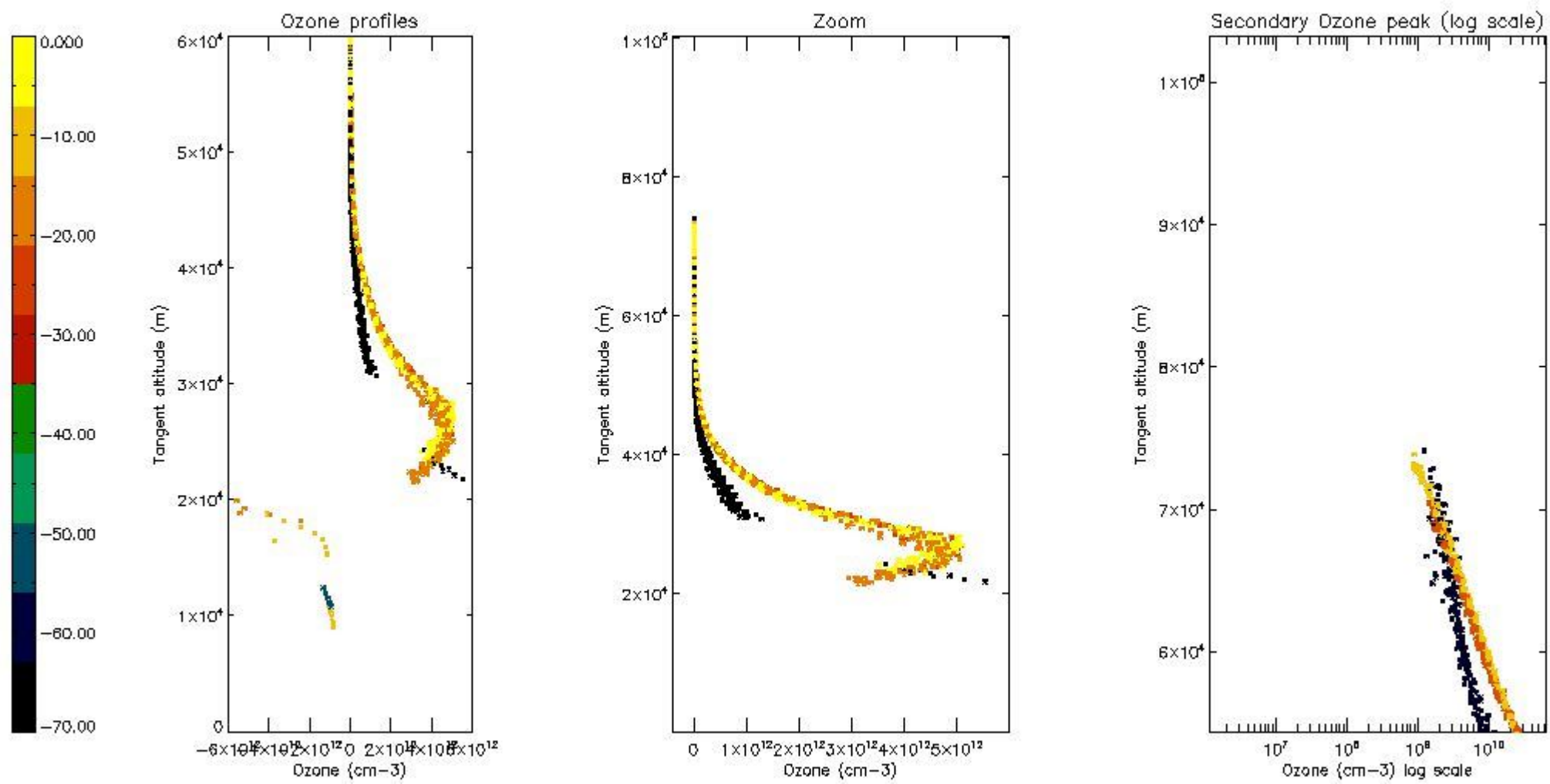
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



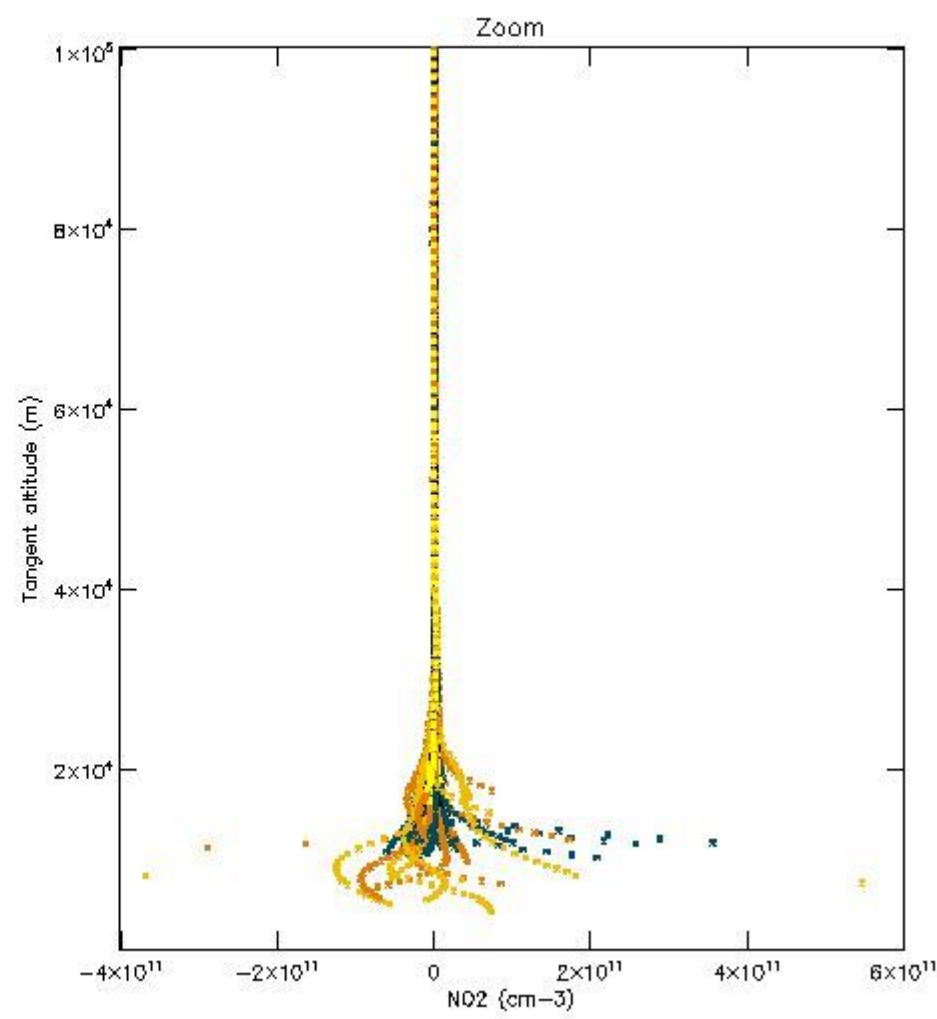
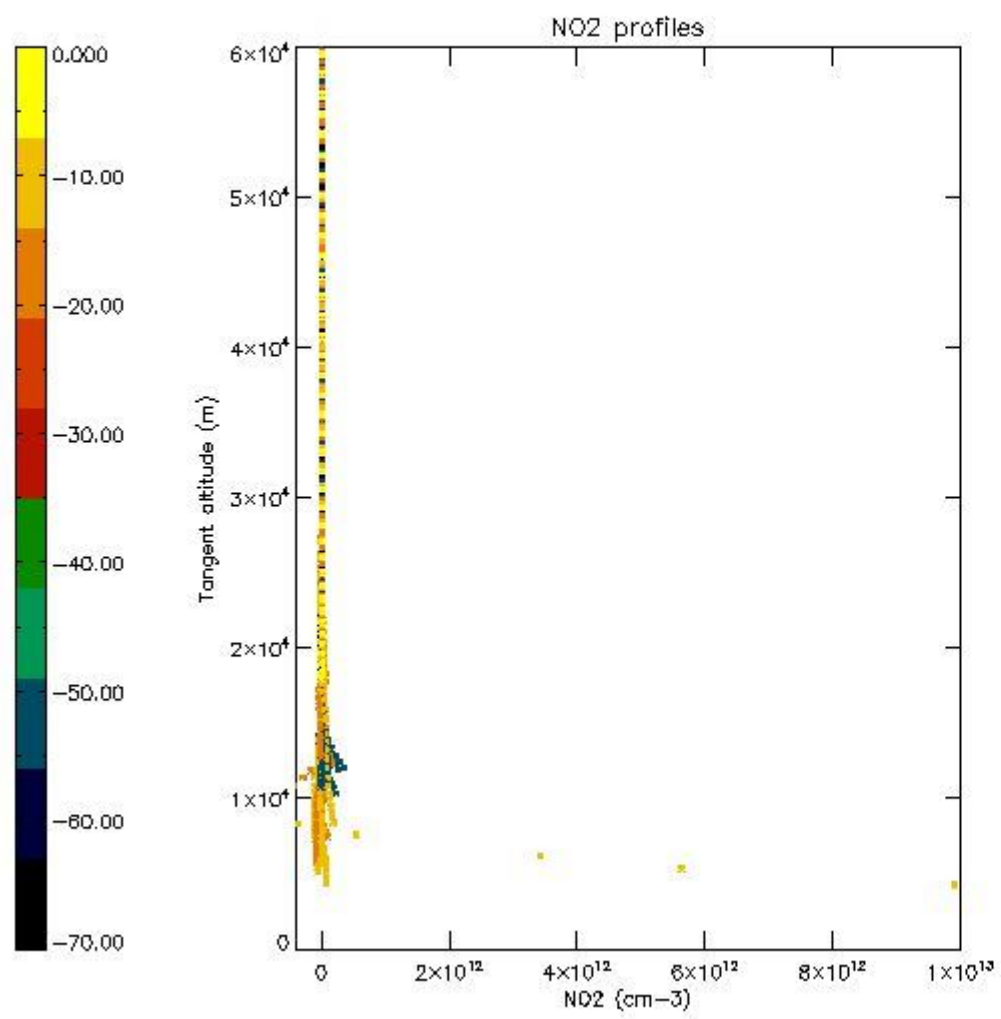
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



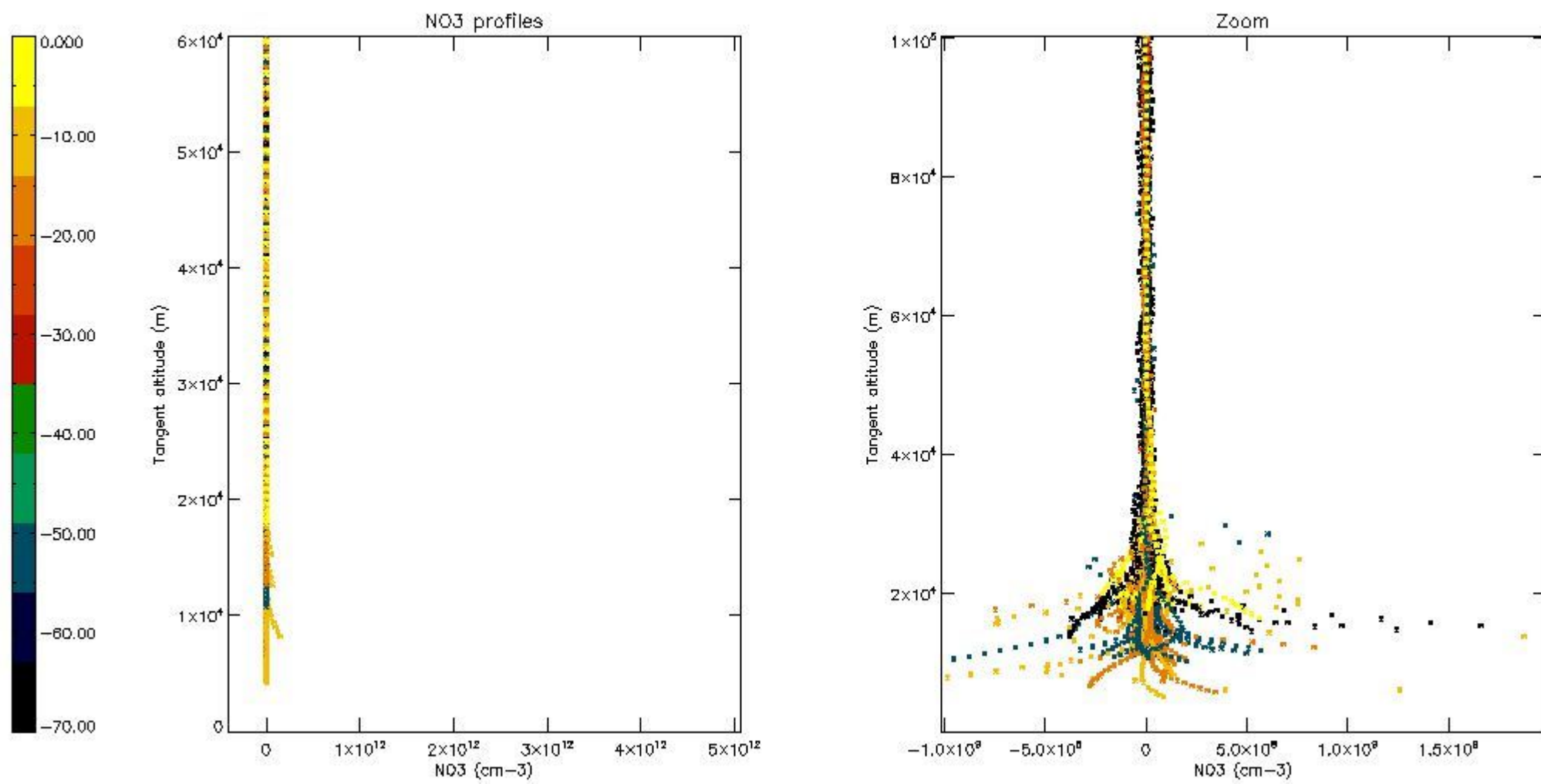
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



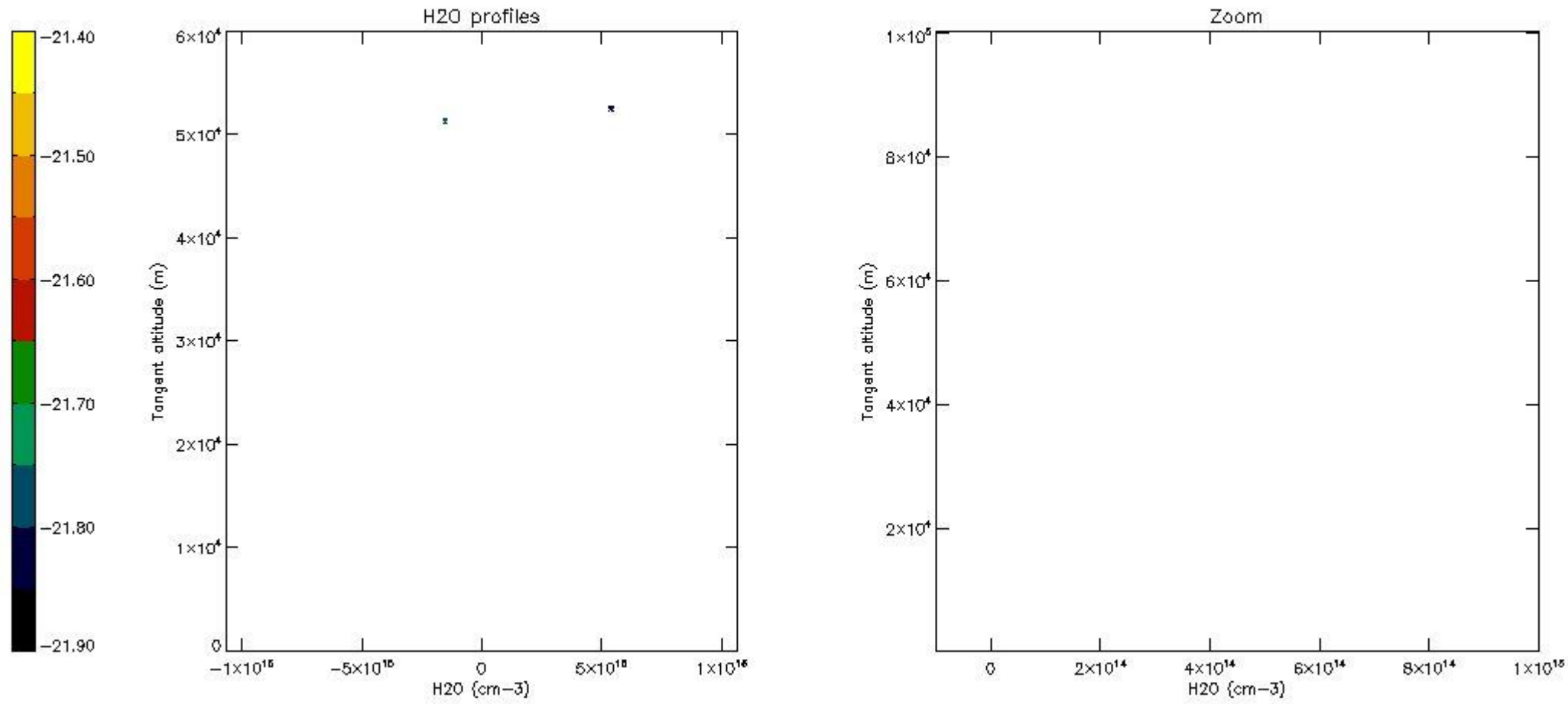
5.7 Plot NO3 profiles for all STD (dark without errors)

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	31-MAY-2010 00:00:38
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	31-MAY-2010 00:00:38
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	31-MAY-2010 00:00:38

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

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

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

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

[5. Ozone profiles based on quality statistics and other trace gas profiles](#)

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

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[5.4. Plot ozone profiles where STD < 10% \(dark without errors\)](#)

[5.5. Plot ozone profiles where STD < 5% \(dark without errors\)](#)

[5.6 Plot NO2 profiles for all STD \(dark without errors\)](#)

[5.7 Plot NO3 profiles for all STD \(dark without errors\)](#)

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

[6. Auxiliary Data Files used for the production reported in section 2](#)

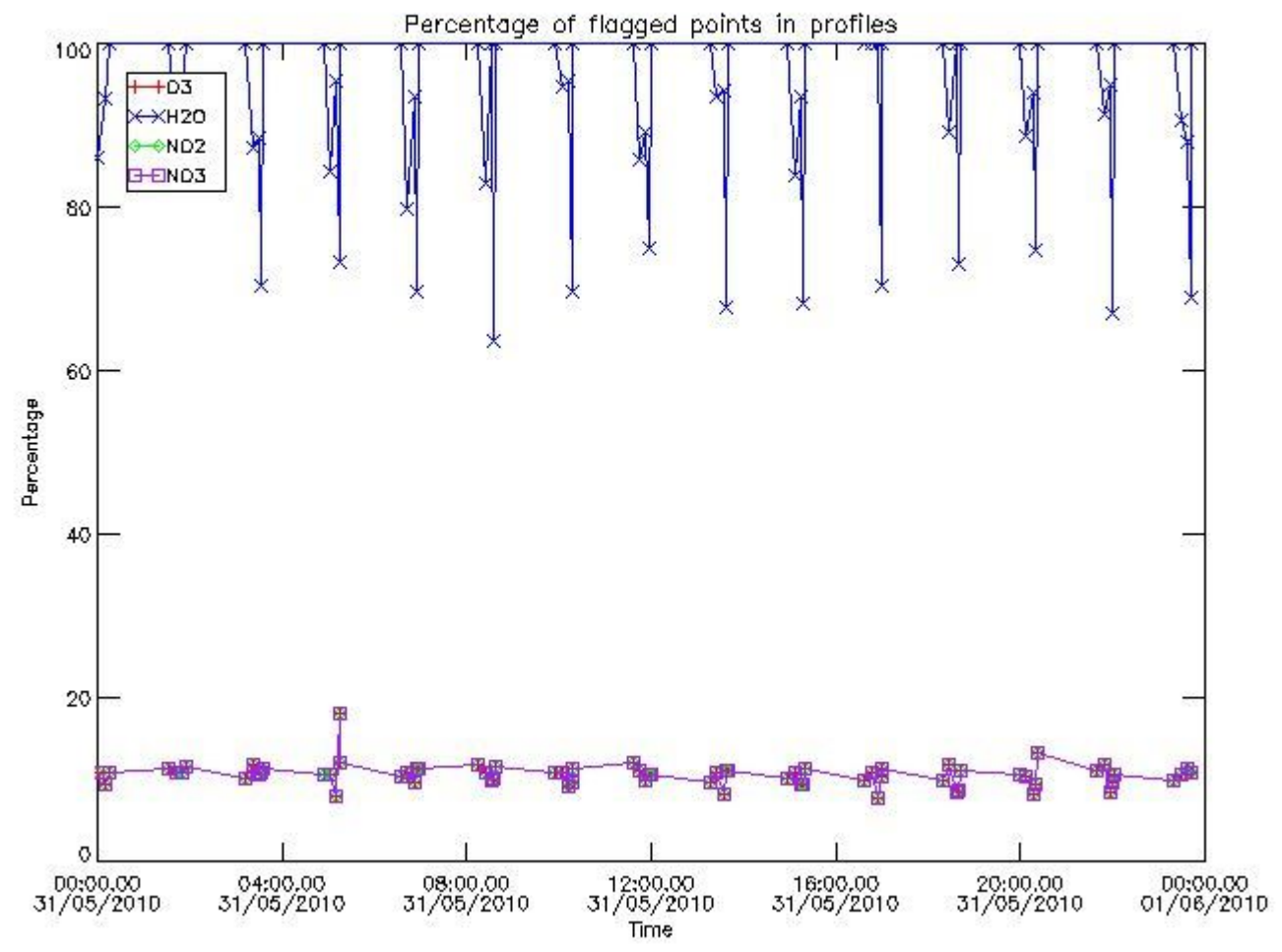
This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also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

Item	Value
Time of report generation	29APR2013 11:23:23
Data source version	GOMOS/6.01
Start time of products	31-05-2010 (31MAY2010 00:00:00)
Stop time of products	01-06-2010 (01JUN2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	328
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

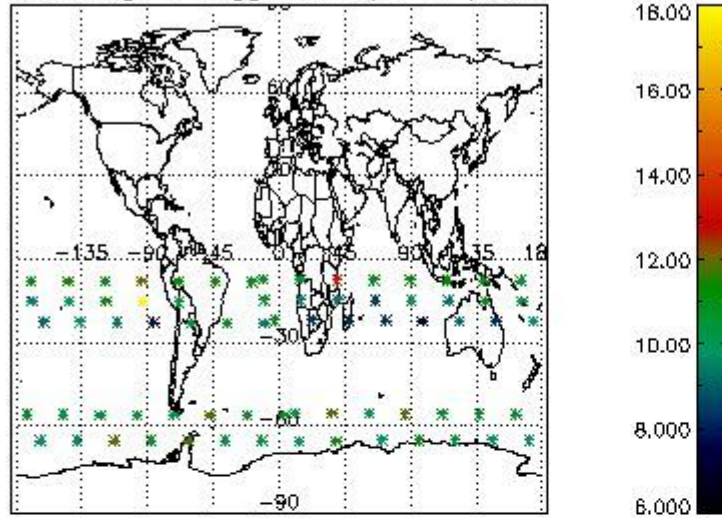
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20100531_000038_000000472089_00488_43127_2407.N1	31-MAY-2010 00:00:38	Dark	47.000	52	16Bet Cet	2.0370	4500.0	94	43127	No
2	GOM_NL__2PRFIN20100531_000908_000000592089_00488_43127_2408.N1	31-MAY-2010 00:09:08	Dark	59.000	18	24Alp PsA	1.1660	9700.0	118	43127	No
3	GOM_NL__2PRFIN20100531_001425_000000472089_00489_43128_2393.N1	31-MAY-2010 00:14:25	Dark	46.500	31	Alp Gru	1.7340	15200.	93	43128	No
4	GOM_NL__2PRFIN20100531_001928_000000452089_00489_43128_2394.N1	31-MAY-2010 00:19:28	Straylight	44.500	45	Alp Pav	1.9400	26000.	89	43128	No
5	GOM_NL__2PRFIN20100531_002700_000000412089_00489_43128_2395.N1	31-MAY-2010 00:27:00	Straylight	41.000	147	Alp Ara	2.8770	26000.	82	43128	No
6	GOM_NL__2PRFIN20100531_002840_000000442089_00489_43128_2396.N1	31-MAY-2010 00:28:40	Straylight	44.000	40	The Sco	1.8590	7100.0	88	43128	No
7	GOM_NL__2PRFIN20100531_003029_000000462089_00489_43128_2397.N1	31-MAY-2010 00:30:29	Twilight	46.000	25	35Lam Sco	1.6200	28000.	92	43128	No
8	GOM_NL__2PRFIN20100531_003218_000000512089_00489_43128_2398.N1	31-MAY-2010 00:32:18	Twilight	50.500	75	26Eps Sco	2.2910	4250.0	101	43128	No
9	GOM_NL__2PRFIN20100531_003421_000000432089_00489_43128_2399.N1	31-MAY-2010 00:34:21	Bright	42.500	136	23Tau Sco	2.8220	30000.	85	43128	No
10	GOM_NL__2PRFIN20100531_003627_000000392089_00489_43128_2400.N1	31-MAY-2010 00:36:27	Bright	38.500	80	7Del Sco	2.3160	30000.	77	43128	No
11	GOM_NL__2PRFIN20100531_003802_000000482089_00489_43128_2401.N1	31-MAY-2010 00:38:02	Bright	47.500	86	35Eta Oph	2.4300	10200.	95	43128	No
12	GOM_NL__2PRFIN20100531_003954_000000442089_00489_43128_2402.N1	31-MAY-2010 00:39:54	Bright	44.000	98	13Zet Oph	2.5710	30000.	88	43128	No
13	GOM_NL__2PRFIN20100531_004206_000000412089_00489_43128_2403.N1	31-MAY-2010 00:42:06	Bright	40.500	120	1Del Oph	2.7340	3200.0	81	43128	No
14	GOM_NL__2PRFIN20100531_004507_000000382089_00489_43128_2404.N1	31-MAY-2010 00:45:07	Bright	37.500	102	24Alp Ser	2.6000	4250.0	75	43128	No
15	GOM_NL__2PRFIN20100531_005103_000000392089_00489_43128_2405.N1	31-MAY-2010 00:51:03	Bright	39.000	67	5Alp CrB	2.2210	11000.	78	43128	No
16	GOM_NL__2PRFIN20100531_005349_000000462089_00489_43128_2406.N1	31-MAY-2010 00:53:49	Bright	45.500	133	40Zet Her	2.8070	6000.0	91	43128	No
17	GOM_NL__2PRFIN20100531_010142_000000382089_00489_43128_2407.N1	31-MAY-2010 01:01:42	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	43128	No
18	GOM_NL__2PRFIN20100531_011211_000000482089_00489_43128_2408.N1	31-MAY-2010 01:12:11	Bright	47.500	89	5Alp Cep	2.4510	8000.0	95	43128	No
19	GOM_NL__2PRFIN20100531_011703_000000552089_00489_43128_2409.N1	31-MAY-2010 01:17:03	Bright	55.000	76	27Gam Cas	2.3000	30000.	110	43128	No
20	GOM_NL__2PRFIN20100531_012444_000000442089_00489_43128_2410.N1	31-MAY-2010 01:24:44	Bright	43.500	53	43Bet And	2.0480	3300.0	87	43128	No
21	GOM_NL__2PRFIN20100531_012725_000000532089_00489_43128_2411.N1	31-MAY-2010 01:27:25	Twilight	52.500	58	21Alp And	2.0730	11000.	105	43128	No
22	GOM_NL__2PRFIN20100531_013216_000000502089_00489_43128_2412.N1	31-MAY-2010 01:32:16	Dark	49.500	140	88Gam Peg	2.8340	26000.	99	43128	No
23	GOM_NL__2PRFIN20100531_014114_000000472089_00489_43128_2413.N1	31-MAY-2010 01:41:14	Dark	46.500	52	16Bet Cet	2.0370	4500.0	93	43128	No
24	GOM_NL__2PRFIN20100531_014945_000000612089_00489_43128_2414.N1	31-MAY-2010 01:49:45	Dark	60.500	18	24Alp PsA	1.1660	9700.0	121	43128	No
25	GOM_NL__2PRFIN20100531_015502_000000452089_00490_43129_2423.N1	31-MAY-2010 01:55:02	Dark	44.500	31	Alp Gru	1.7340	15200.	89	43129	No
26	GOM_NL__2PRFIN20100531_020005_000000422089_00490_43129_2424.N1	31-MAY-2010 02:00:05	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	43129	No
27	GOM_NL__2PRFIN20100531_020736_000000402089_00490_43129_2425.N1	31-MAY-2010 02:07:36	Straylight	40.000	147	Alp Ara	2.8770	26000.	80	43129	No
28	GOM_NL__2PRFIN20100531_020917_000000472089_00490_43129_2426.N1	31-MAY-2010 02:09:17	Straylight	46.500	40	The Sco	1.8590	7100.0	93	43129	No
29	GOM_NL__2PRFIN20100531_021105_000000492089_00490_43129_2427.N1	31-MAY-2010 02:11:05	Twilight	48.500	25	35Lam Sco	1.6200	28000.	97	43129	No
30	GOM_NL__2PRFIN20100531_021253_000000482089_00490_43129_2428.N1	31-MAY-2010 02:12:53	Twilight	47.500	75	26Eps Sco	2.2910	4250.0	95	43129	No
31	GOM_NL__2PRFIN20100531_021457_000000442089_00490_43129_2429.N1	31-MAY-2010 02:14:57	Bright	44.000	136	23Tau Sco	2.8220	30000.	88	43129	No
32	GOM_NL__2PRFIN20100531_021703_000000412089_00490_43129_2430.N1	31-MAY-2010 02:17:03	Bright	41.000	80	7Del Sco	2.3160	30000.	82	43129	No
33	GOM_NL__2PRFIN20100531_021837_000000472089_00490_43129_2431.N1	31-MAY-2010 02:18:37	Bright	47.000	86	35Eta Oph	2.4300	10200.	94	43129	No
34	GOM_NL__2PRFIN20100531_022030_000000432089_00490_43129_2432.N1	31-MAY-2010 02:20:30	Bright	43.000	98	13Zet Oph	2.5710	30000.	86	43129	No
35	GOM_NL__2PRFIN20100531_022242_000000412089_00490_43129_2433.N1	31-MAY-2010 02:22:42	Bright	40.500	120	1Del Oph	2.7340	3200.0	81	43129	No
36	GOM_NL__2PRFIN20100531_022543_000000382089_00490_43129_2434.N1	31-MAY-2010 02:25:43	Bright	37.500	102	24Alp Ser	2.6000	4250.0	75	43129	No
37	GOM_NL__2PRFIN20100531_023139_000000402089_00490_43129_2435.N1	31-MAY-2010 02:31:39	Bright	39.500	67	5Alp CrB	2.2210	11000.	79	43129	No
38	GOM_NL__2PRFIN20100531_023425_000000452089_00490_43129_2436.N1	31-MAY-2010 02:34:25	Bright	45.000	133	40Zet Her	2.8070	6000.0	90	43129	No
39	GOM_NL__2PRFIN20100531_024217_000000392089_00490_43129_2437.N1	31-MAY-2010 02:42:17	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	43129	No
40	GOM_NL__2PRFIN20100531_025247_000000472089_00490_43129_2438.N1	31-MAY-2010 02:52:47	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	43129	No
41	GOM_NL__2PRFIN20100531_025738_000000412089_00490_43129_2439.N1	31-MAY-2010 02:57:38	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	43129	No
42	GOM_NL__2PRFIN20100531_030521_000000442089_00490_43129_2440.N1	31-MAY-2010 03:05:21	Bright	43.500	53	43Bet And	2.0480	3300.0	87	43129	No

3.1 Plot quality information per product (time dependant)

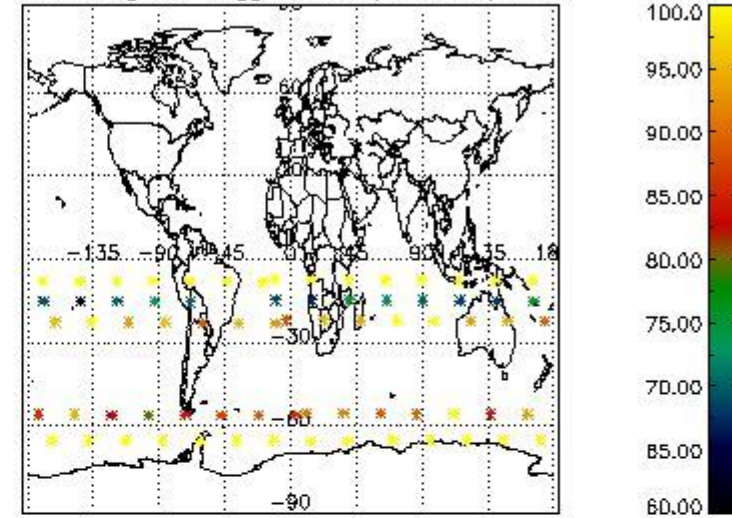


3.2 Plot quality information per product (world map)

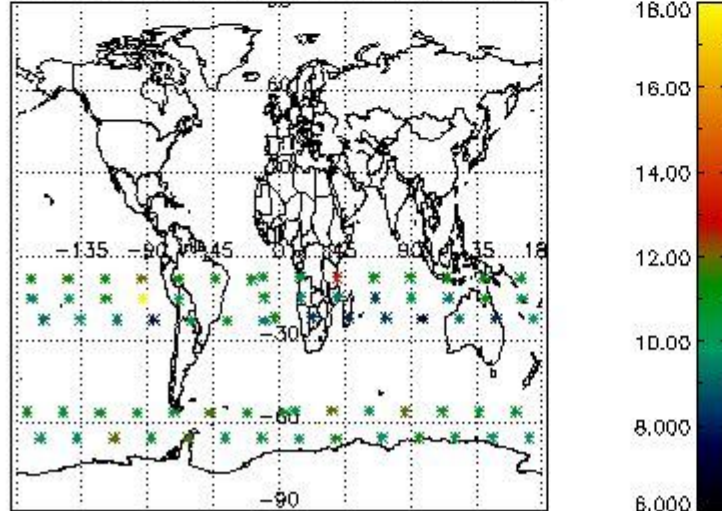
Percentage of flagged data per O3 profile



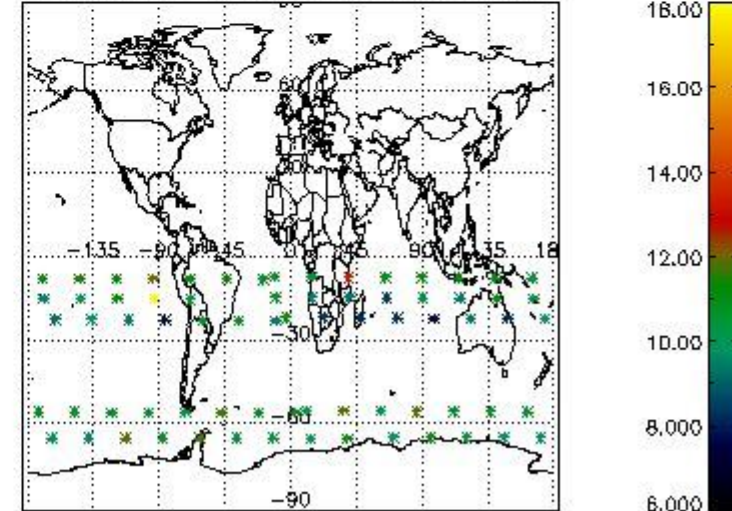
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

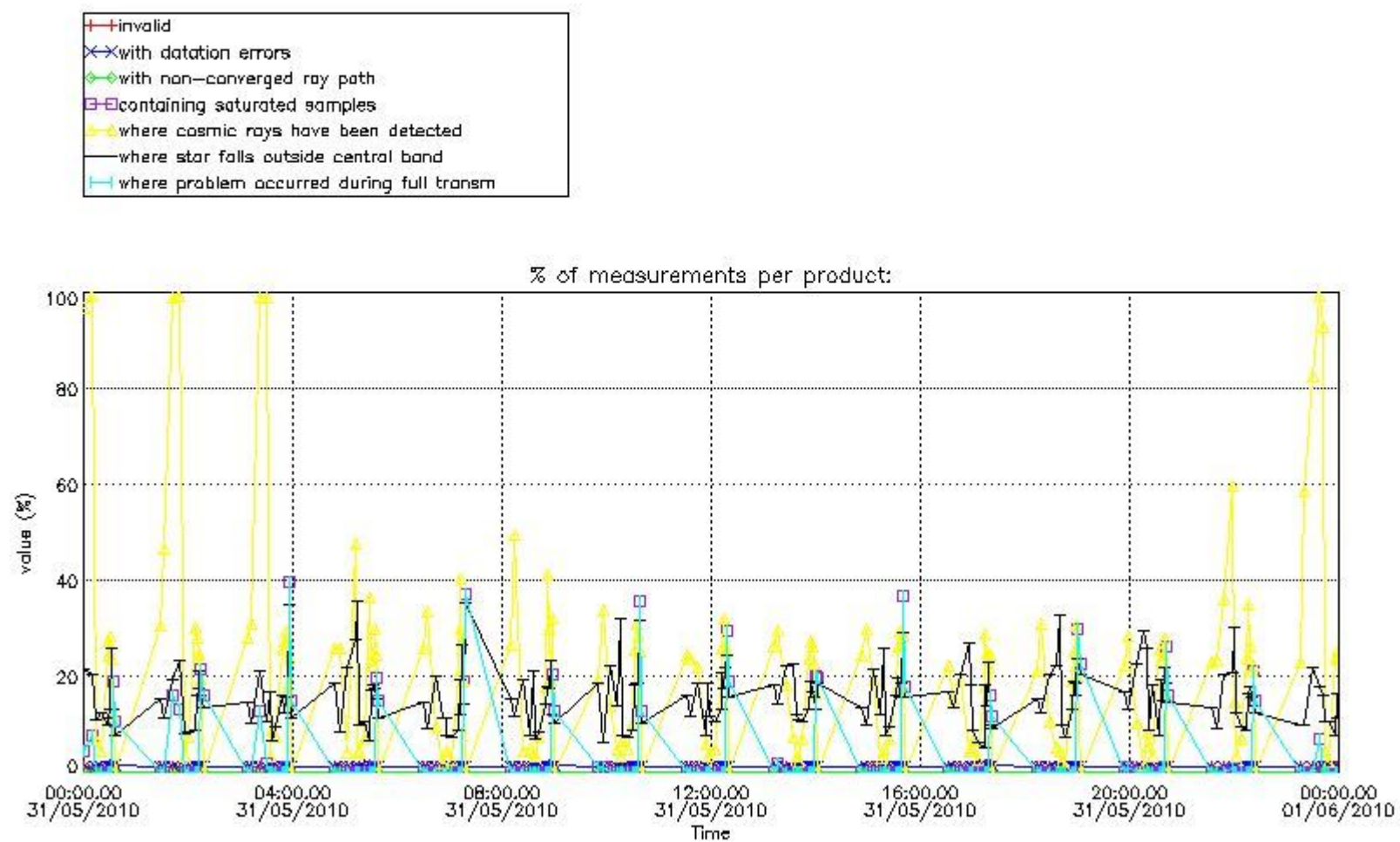


4. Level 1 quality information per product

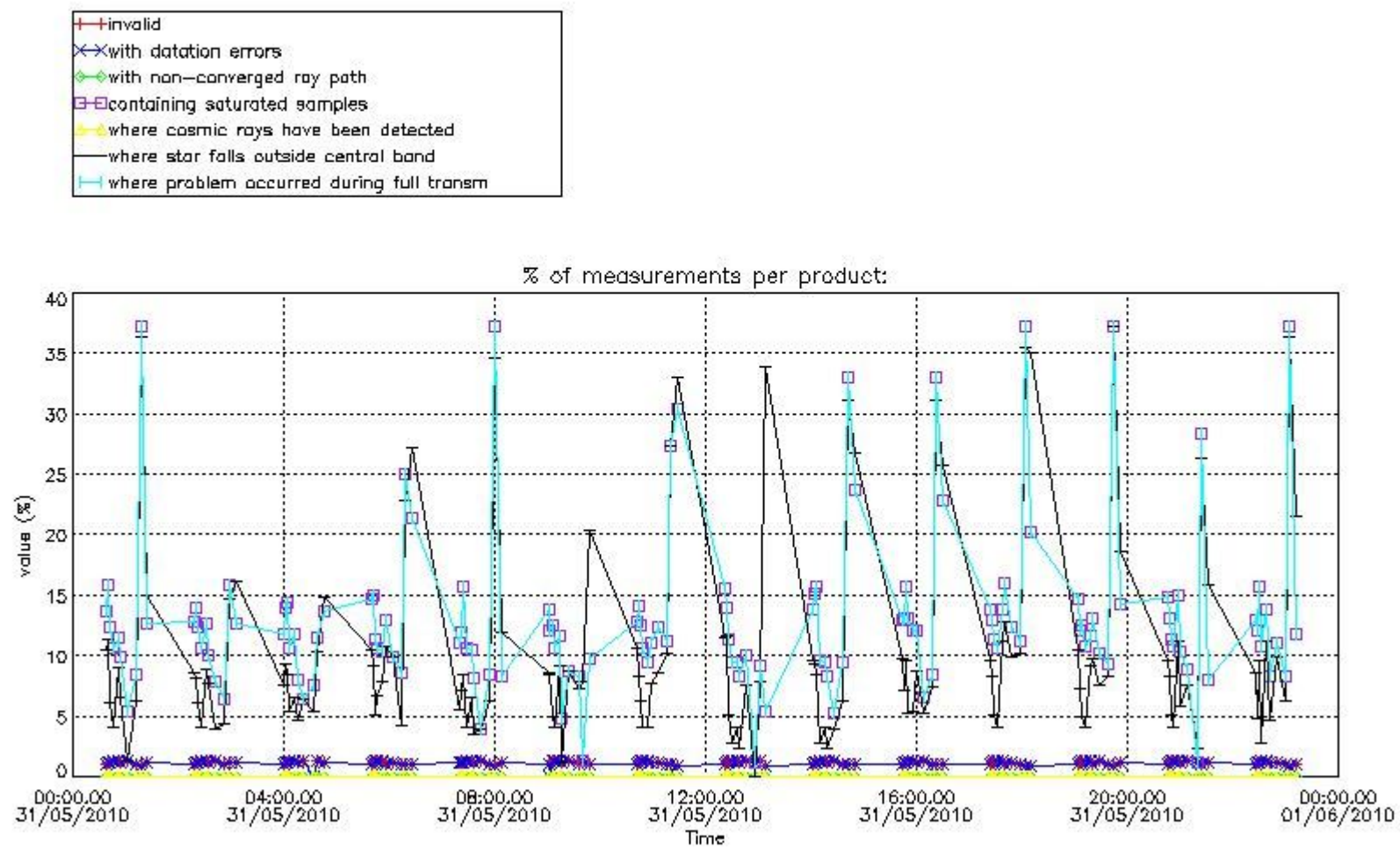
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

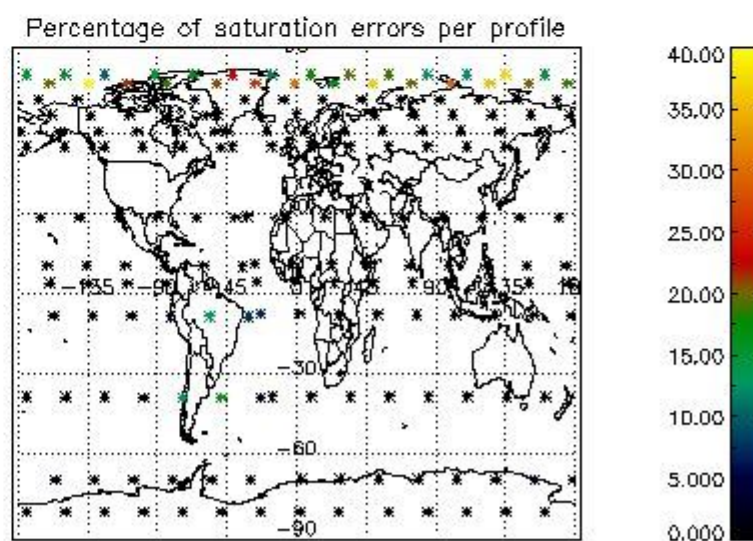
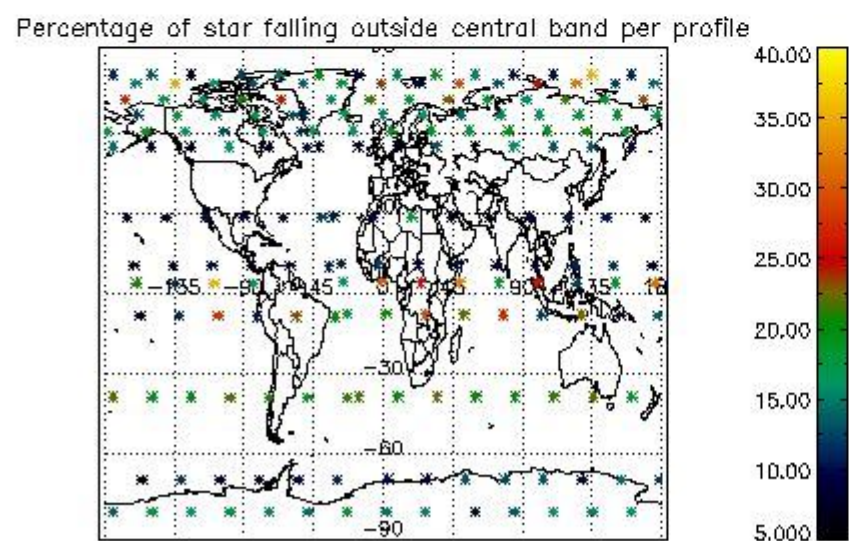
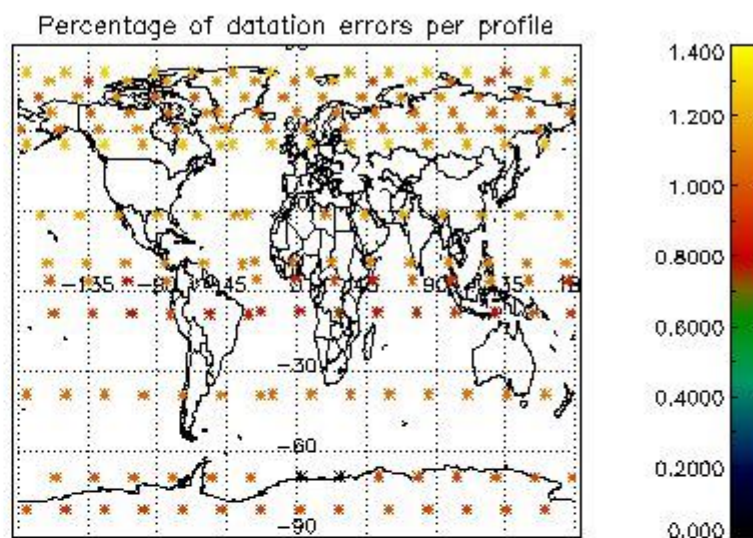
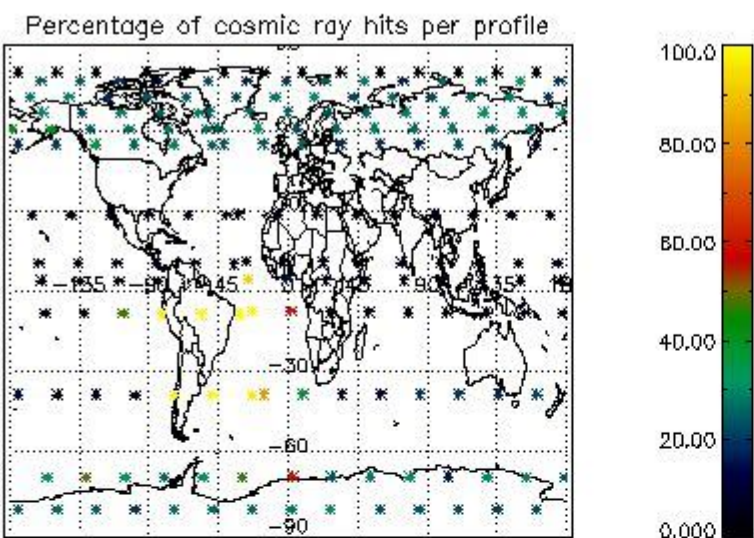


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

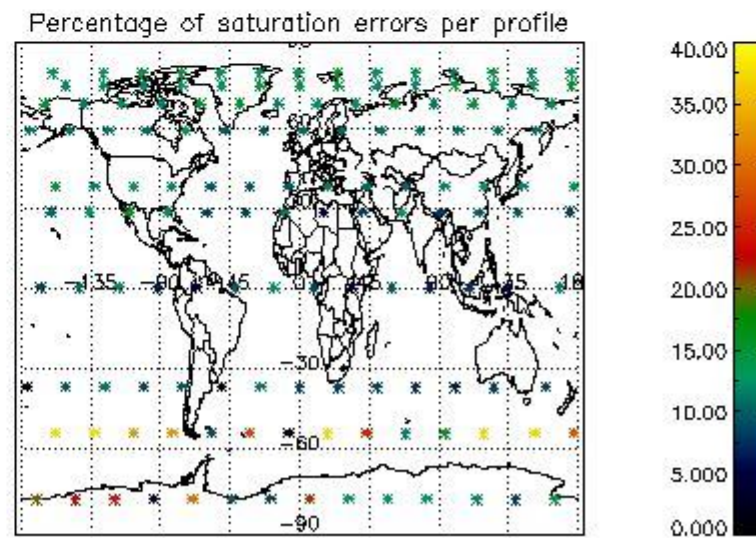
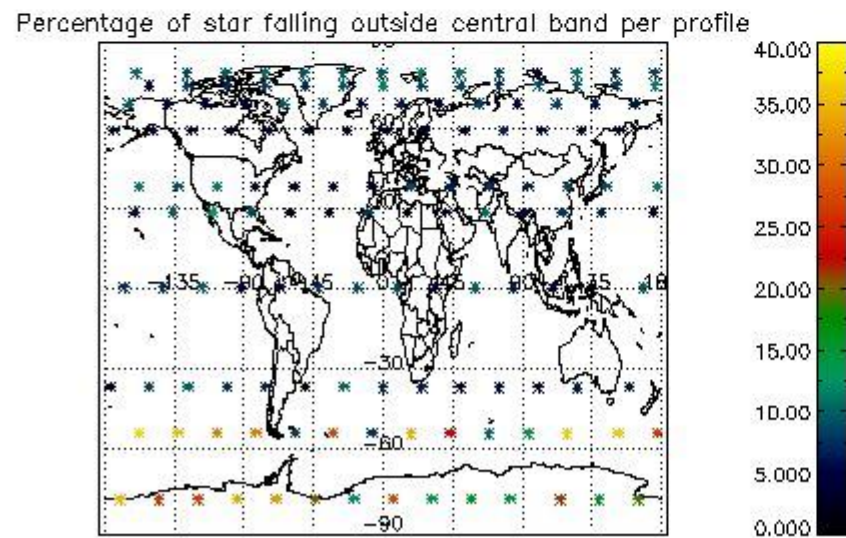
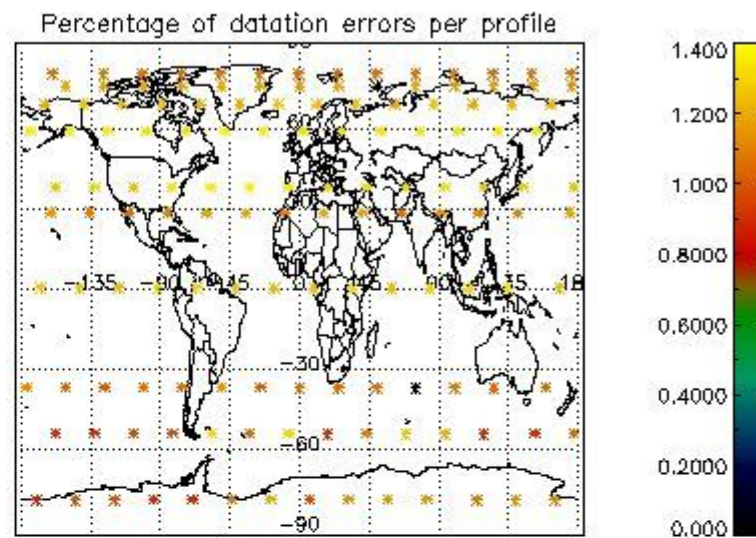
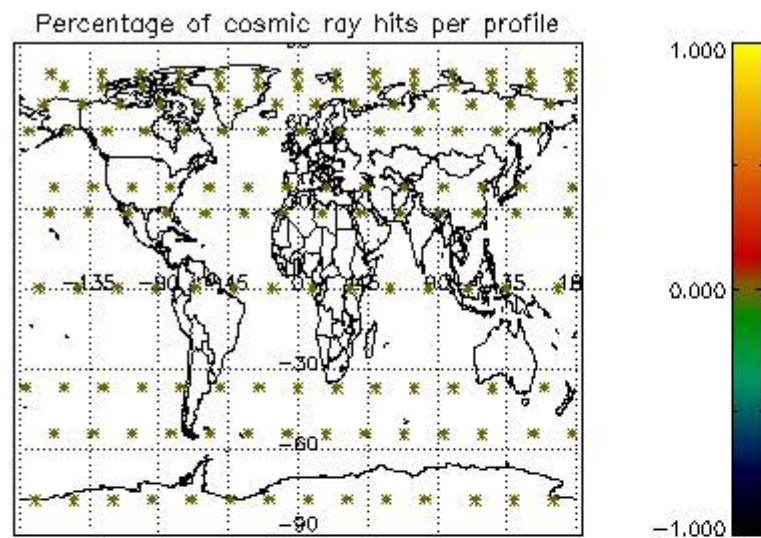


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

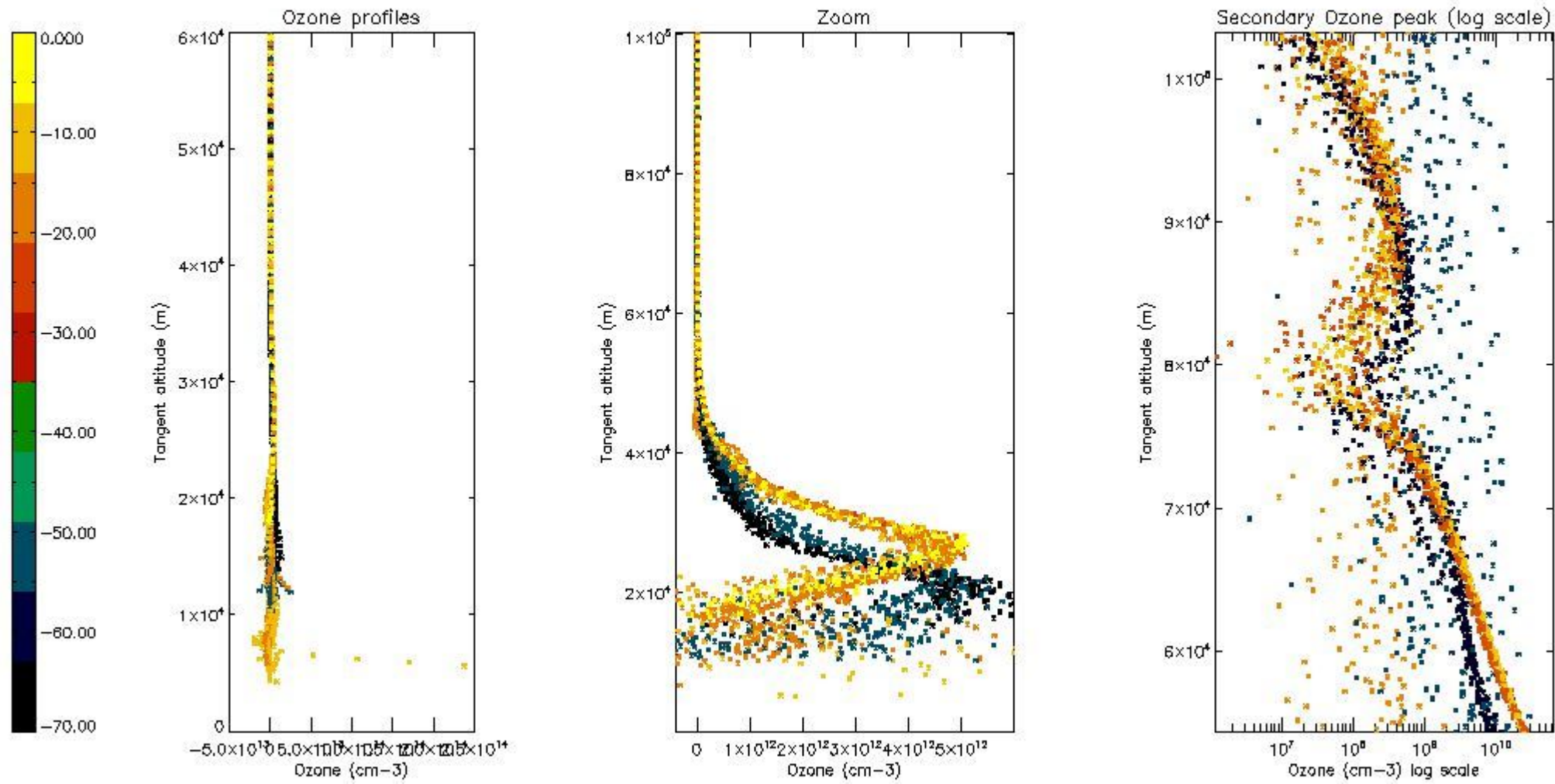
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	25
STD < 20	12

STD < 10	9
STD < 5	6

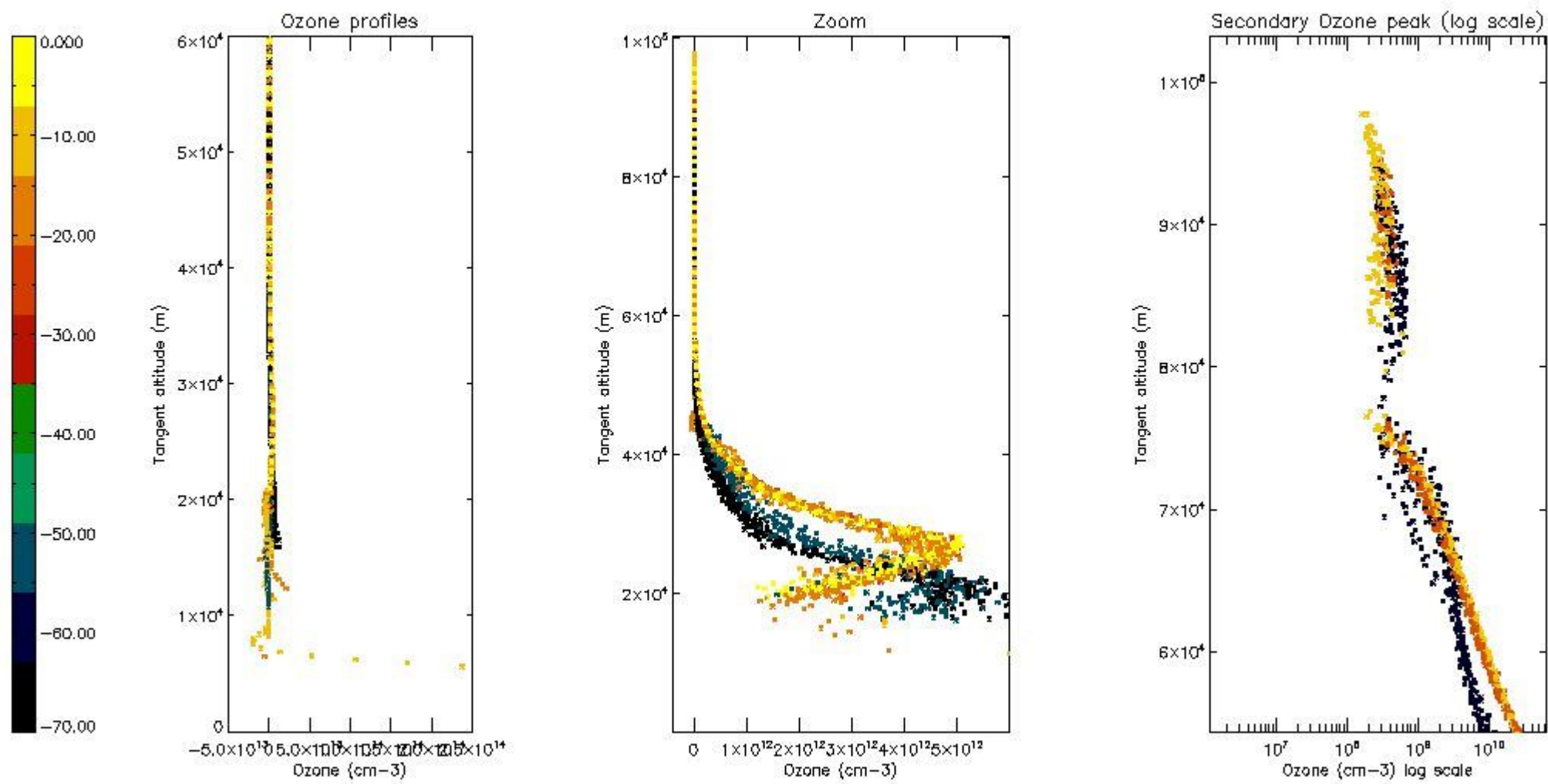
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



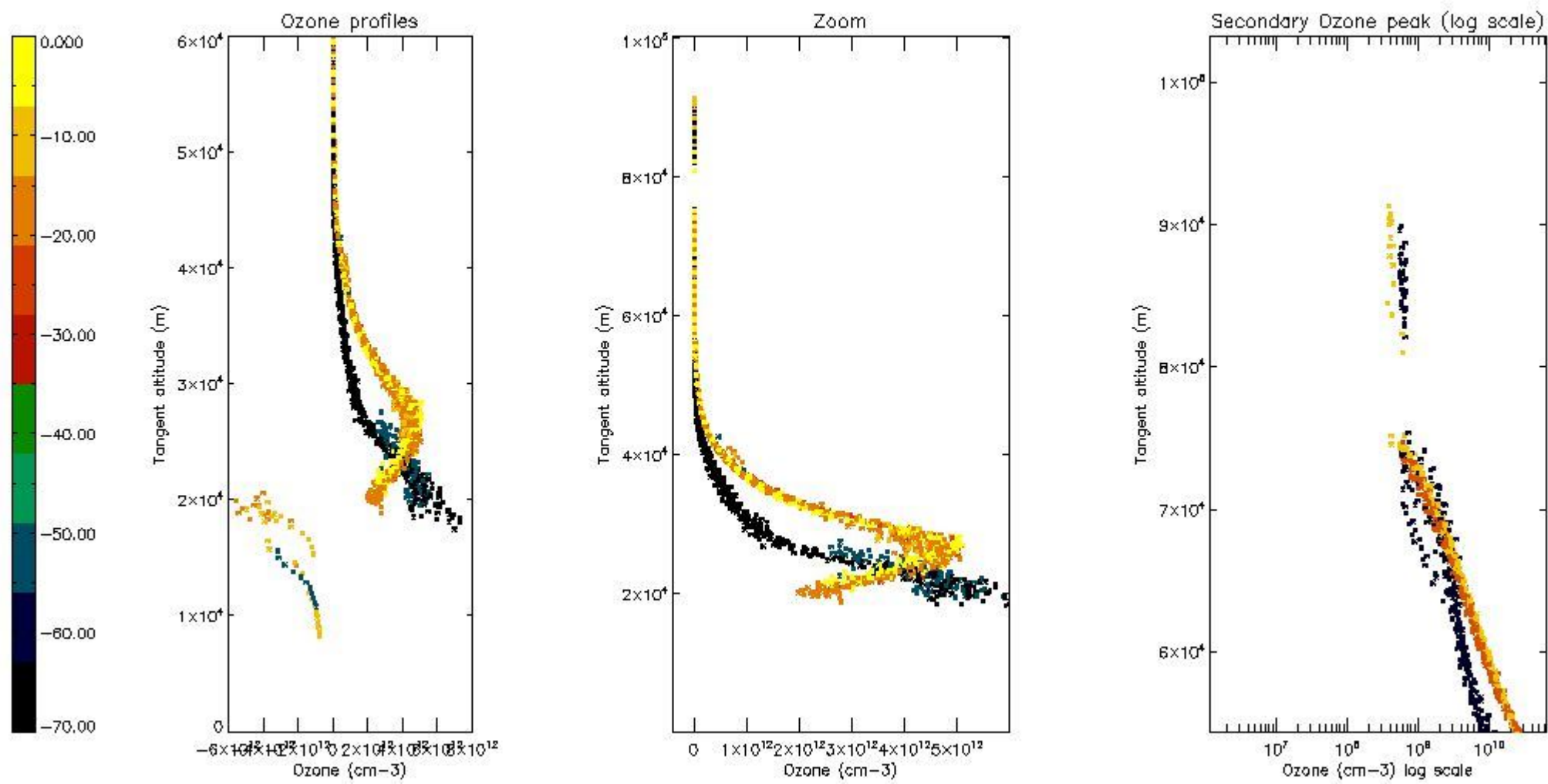
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



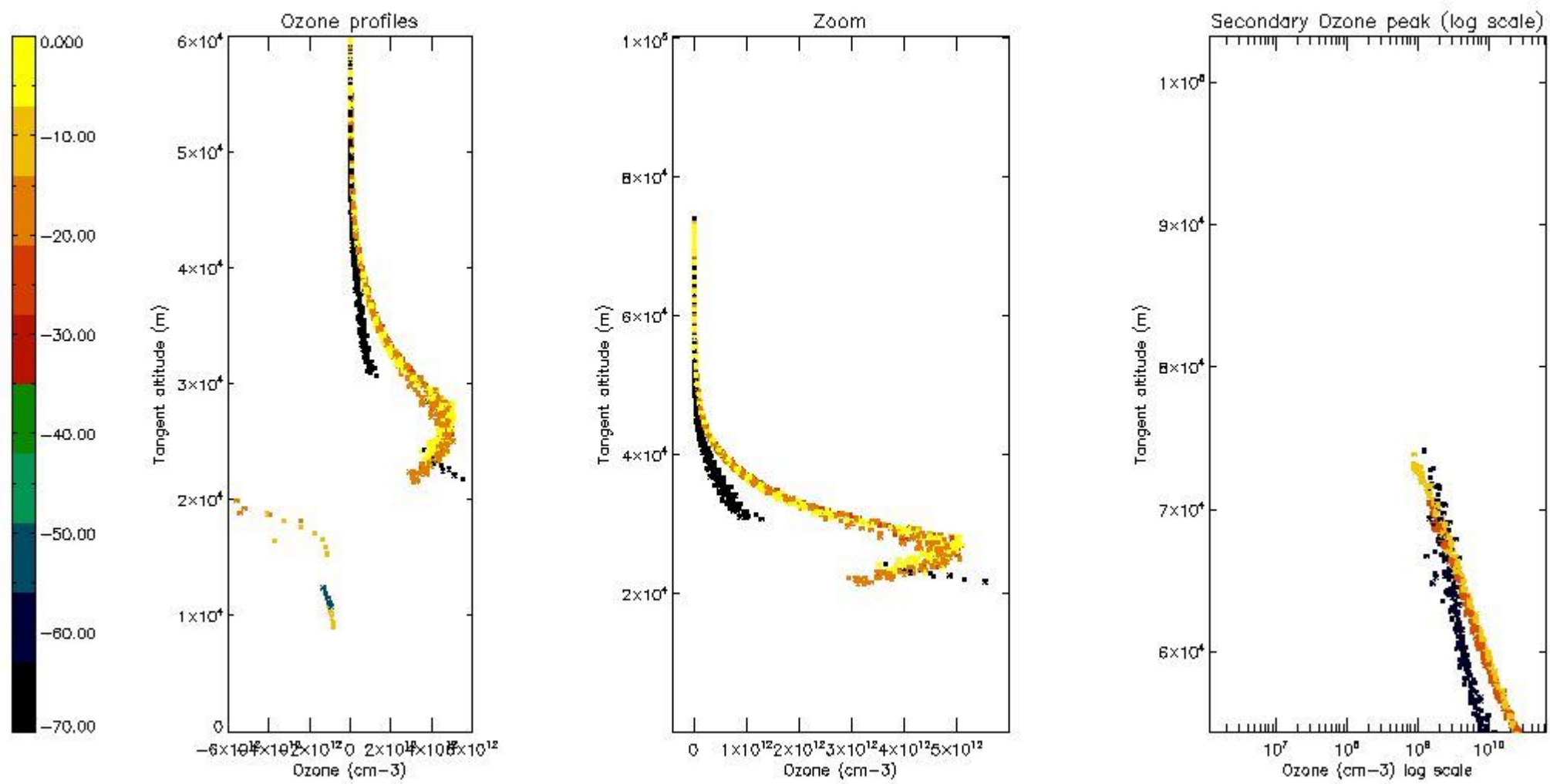
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



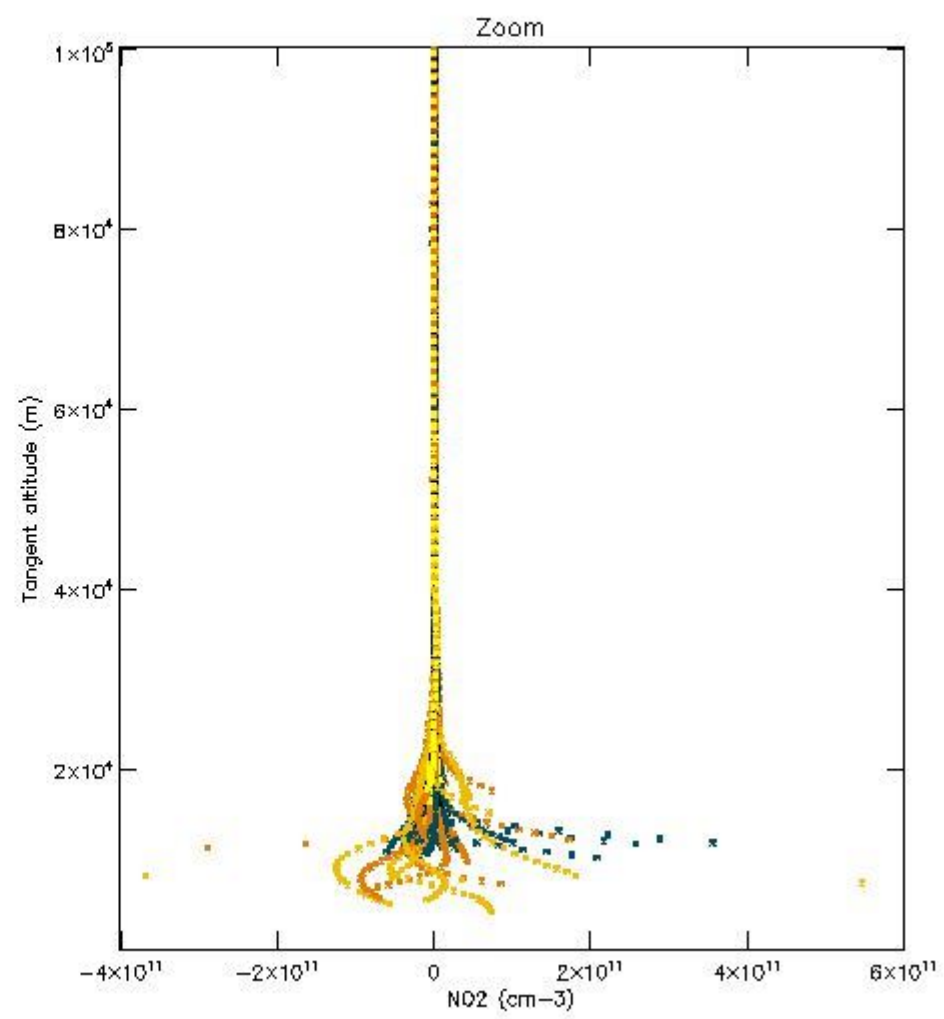
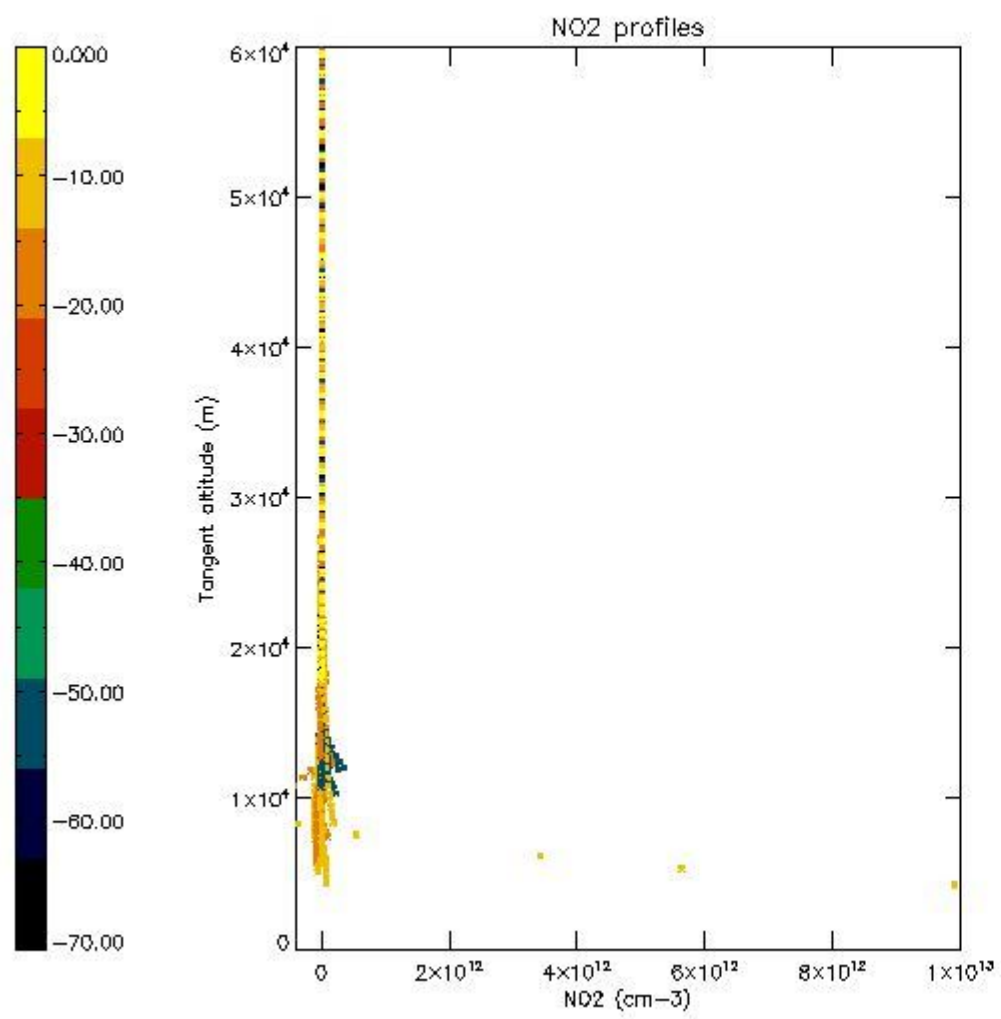
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



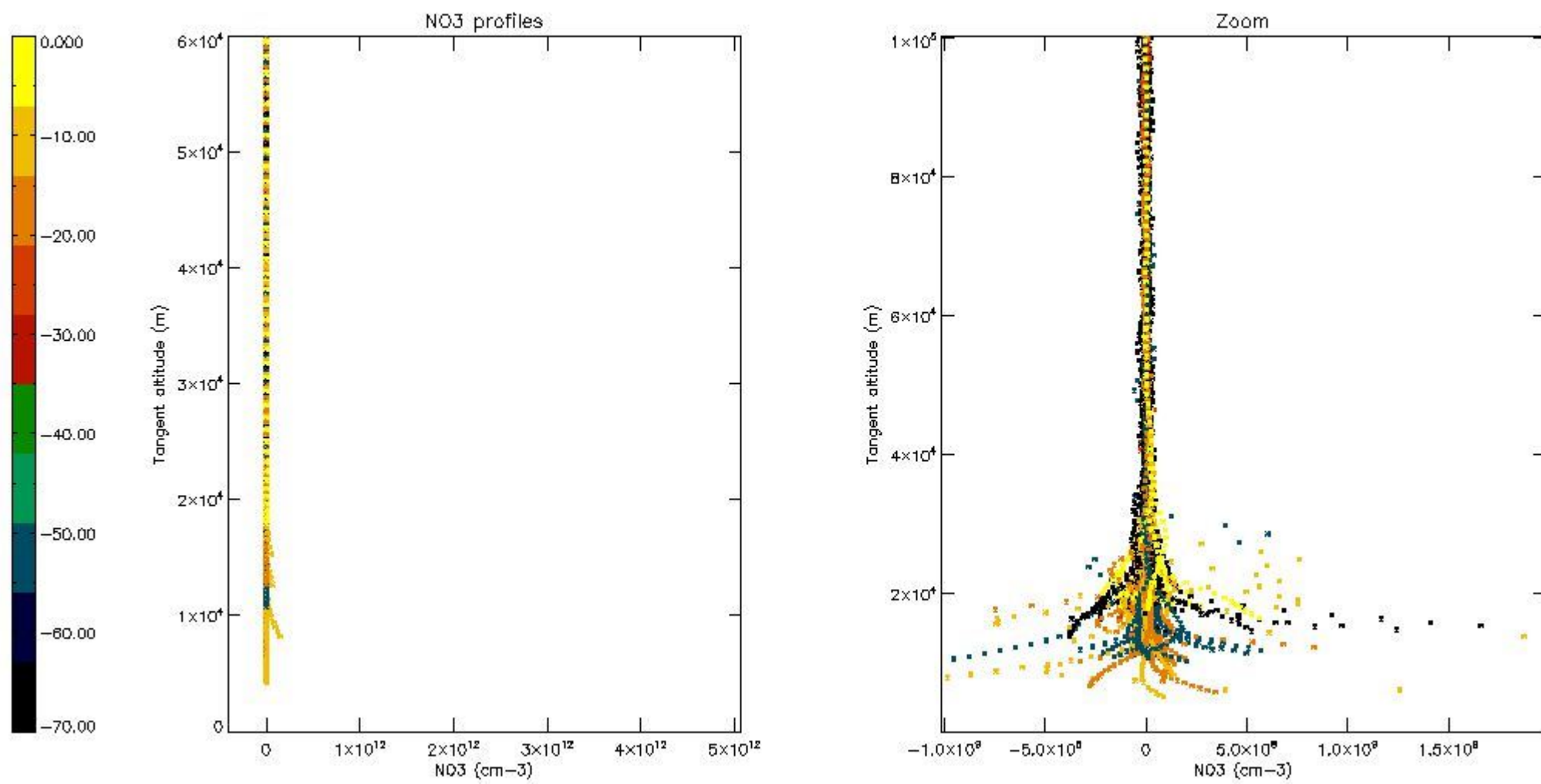
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



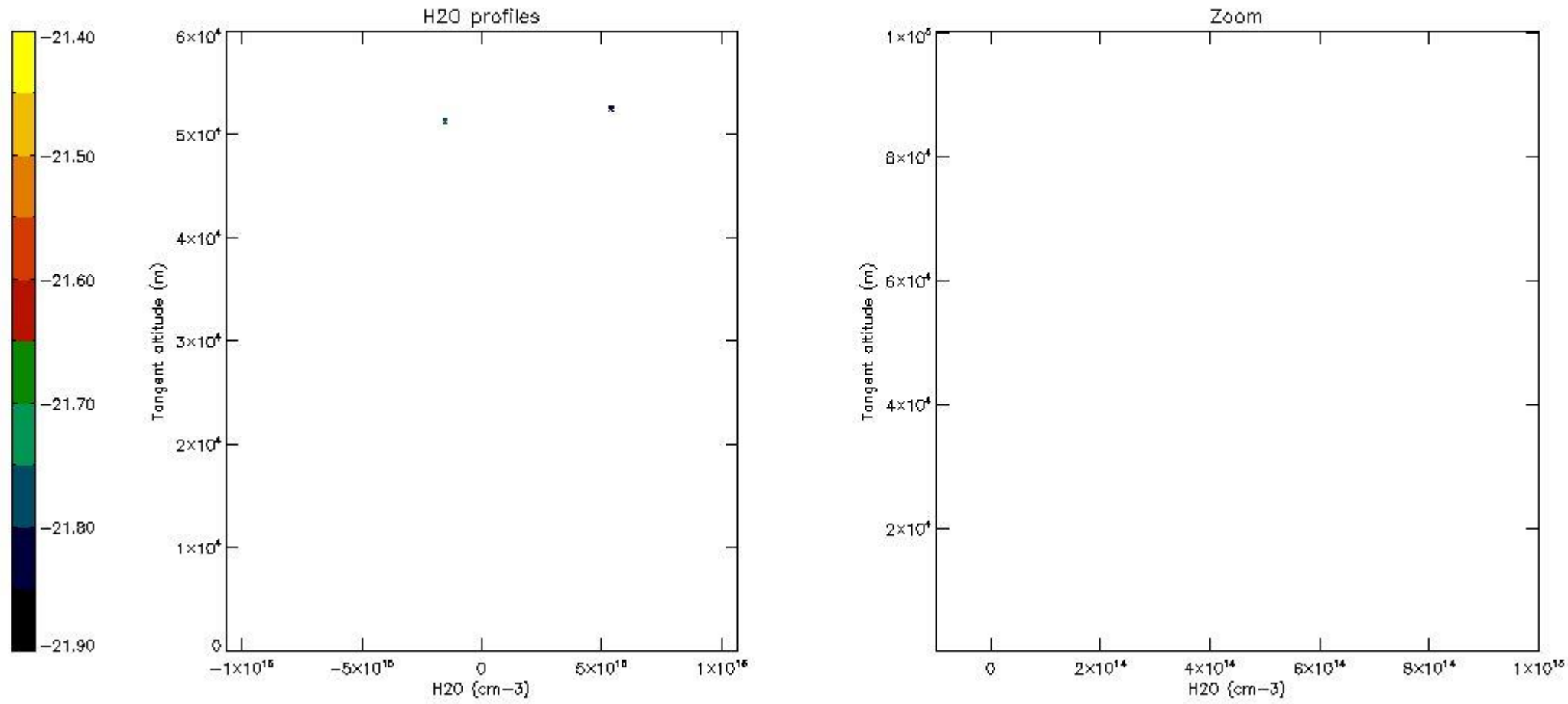
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

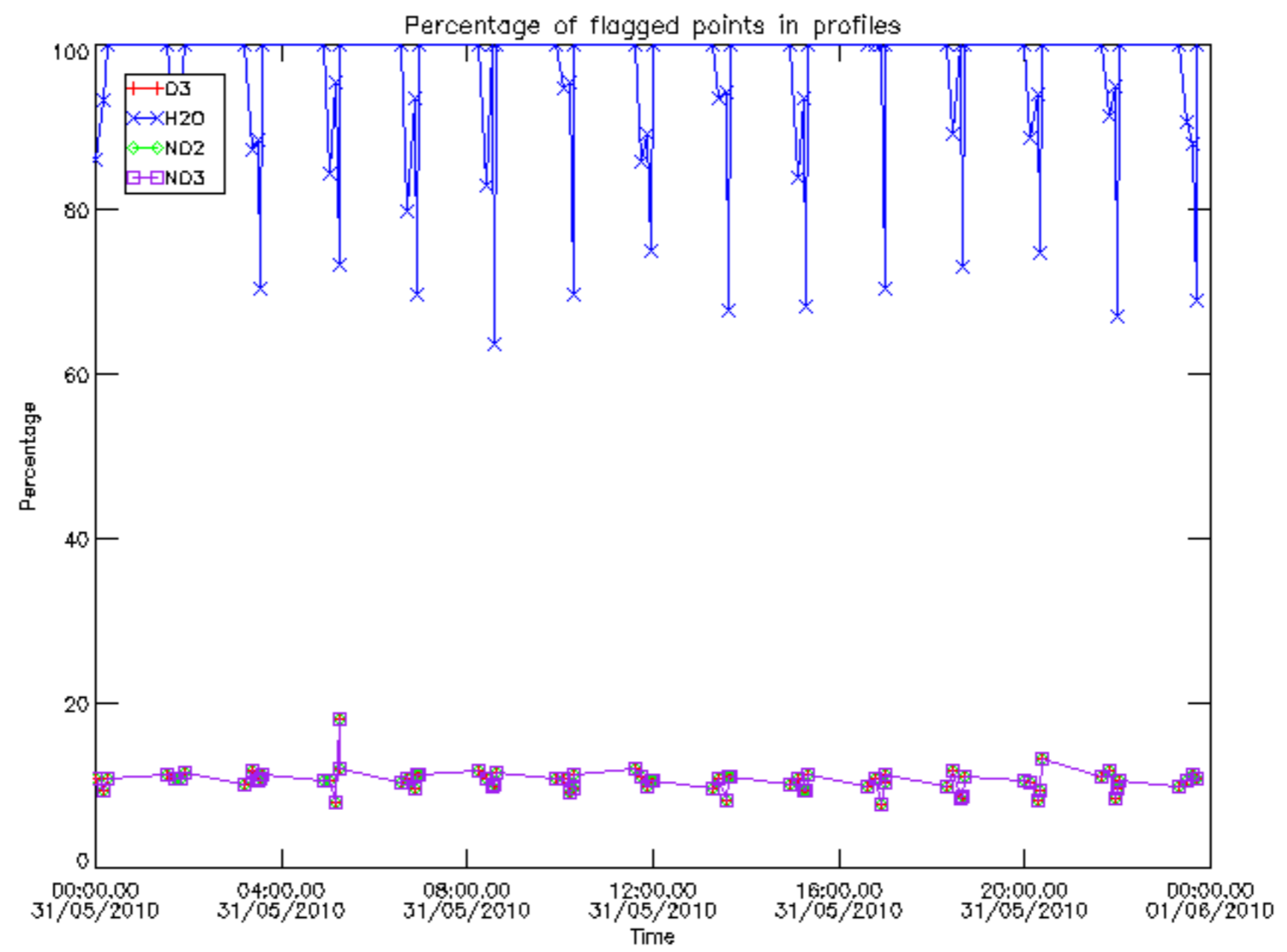
The colorbar represents the latitude.



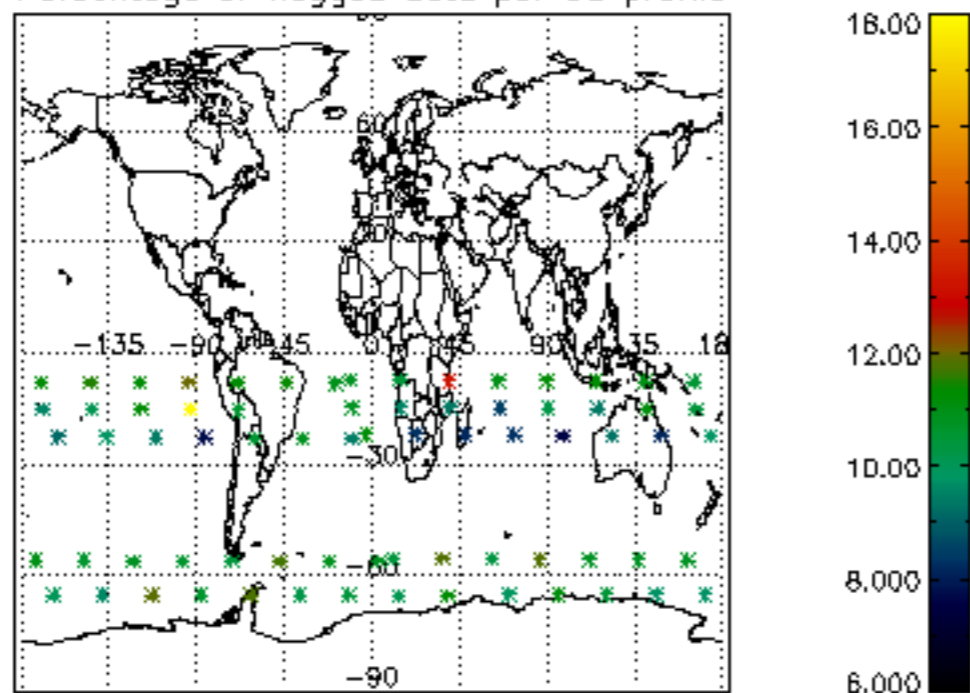
6. Auxiliary Data Files used for the production reported in section 2

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.

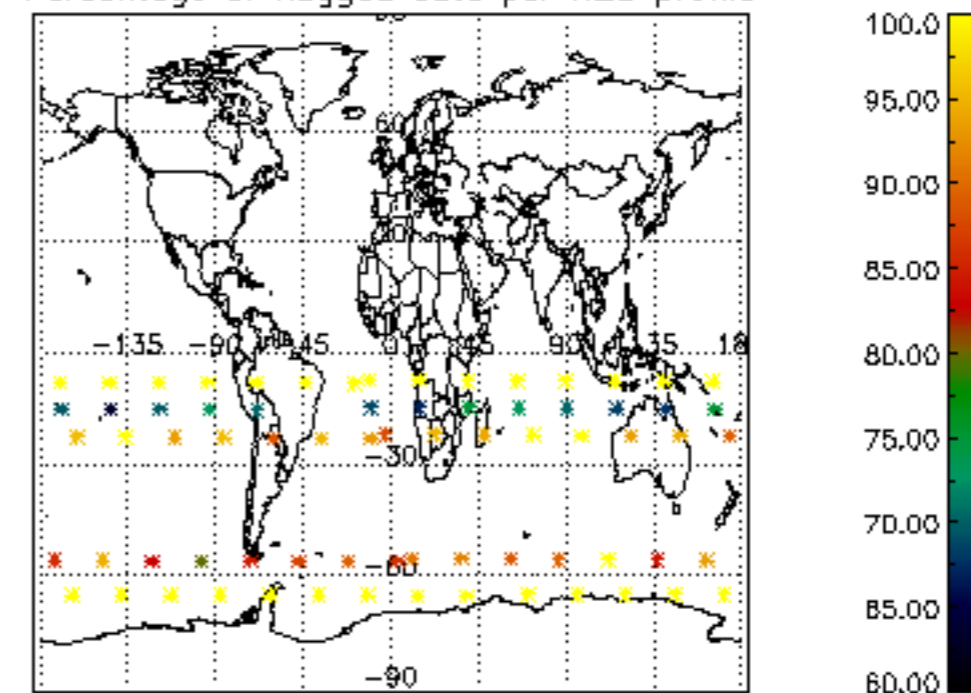
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	31-MAY-2010 00:00:38
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	31-MAY-2010 00:00:38
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	31-MAY-2010 00:00:38



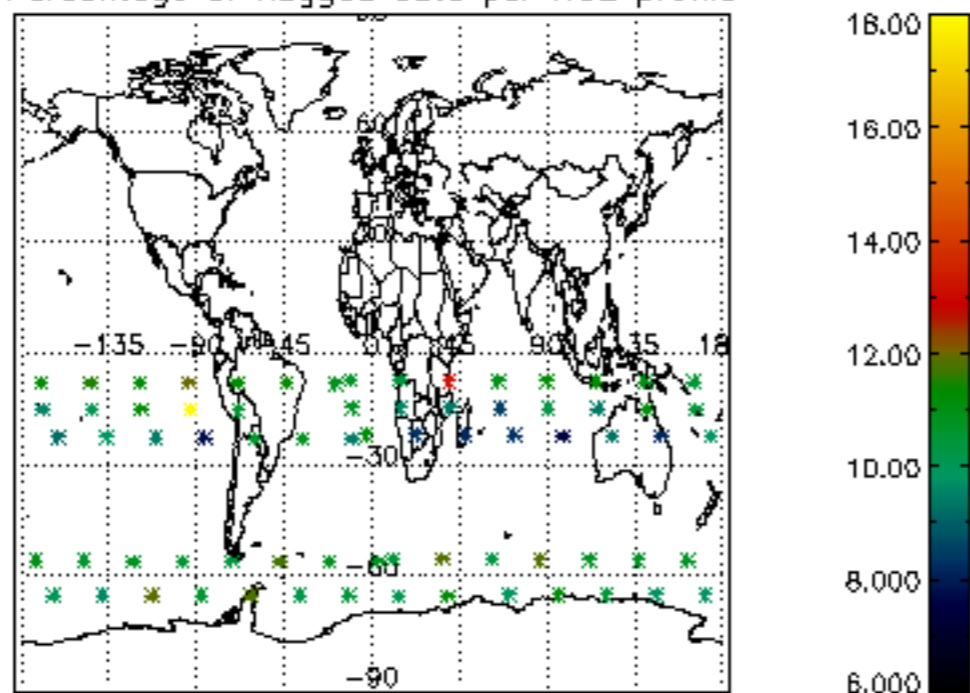
Percentage of flagged data per D3 profile



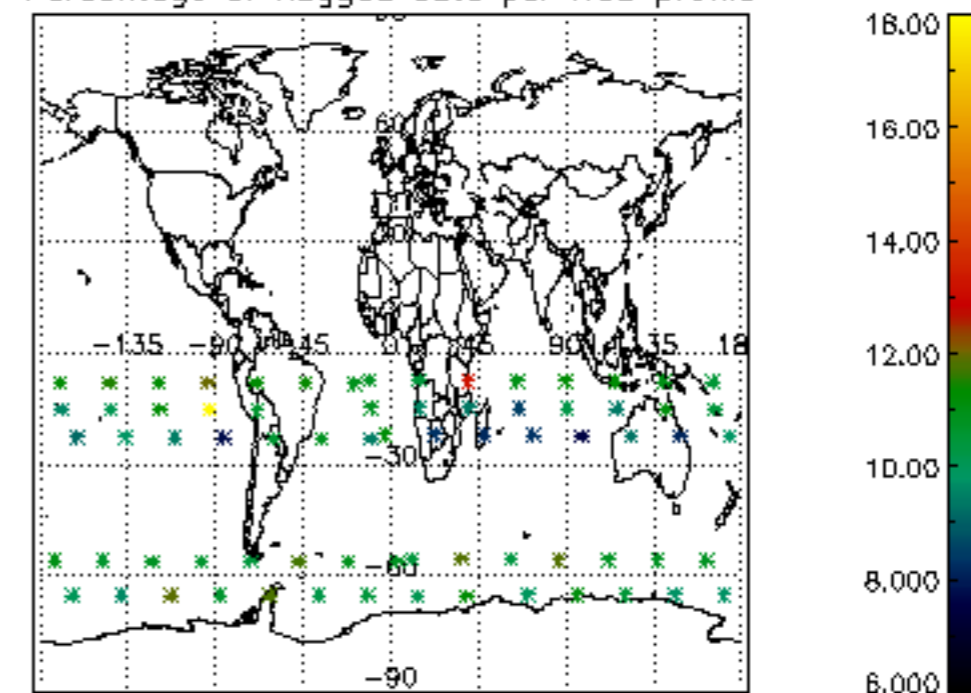
Percentage of flagged data per H2O profile

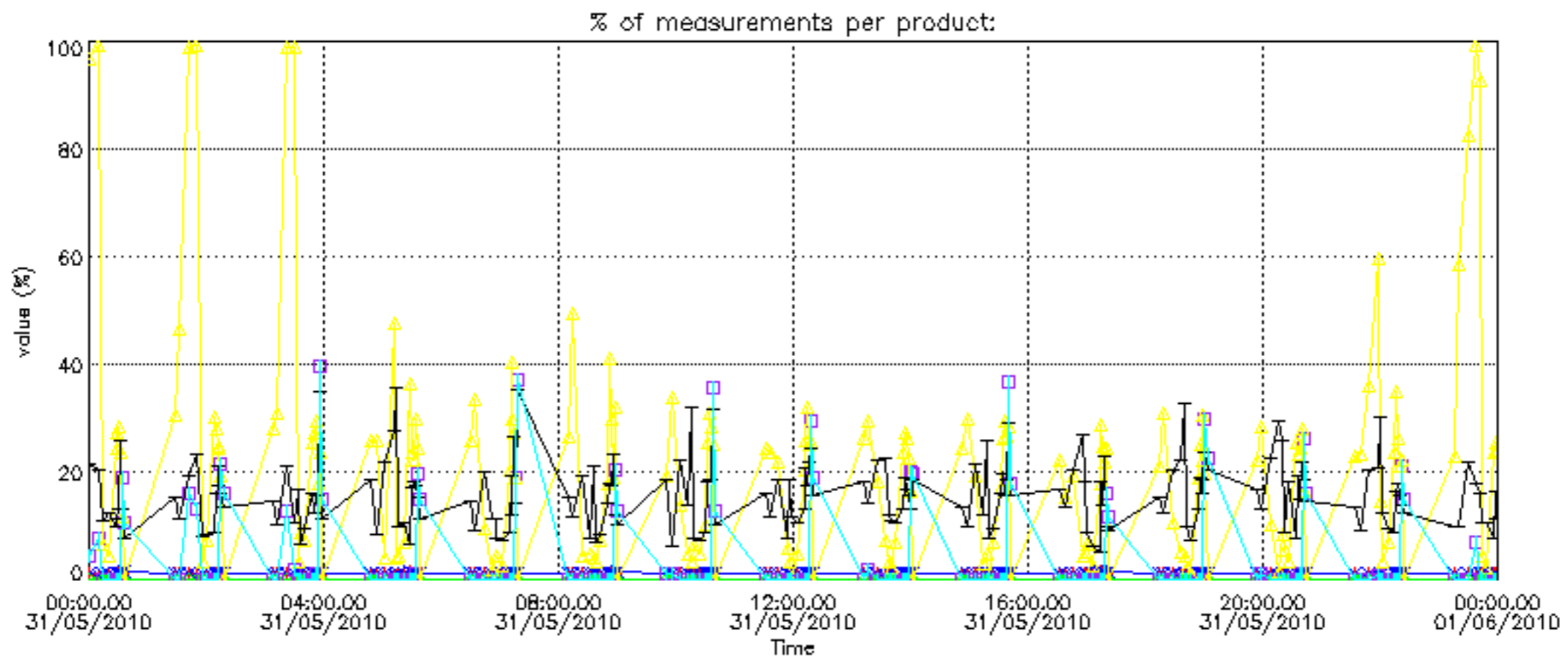


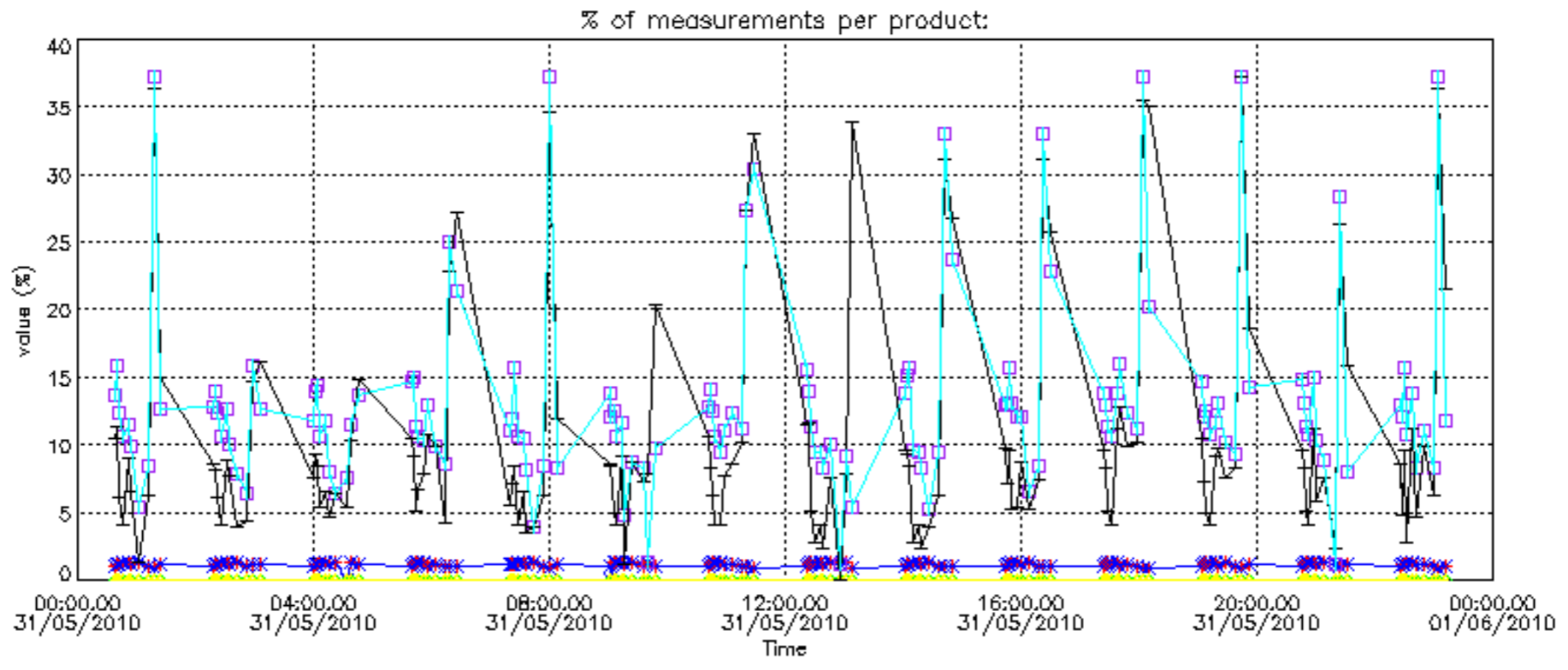
Percentage of flagged data per NO2 profile



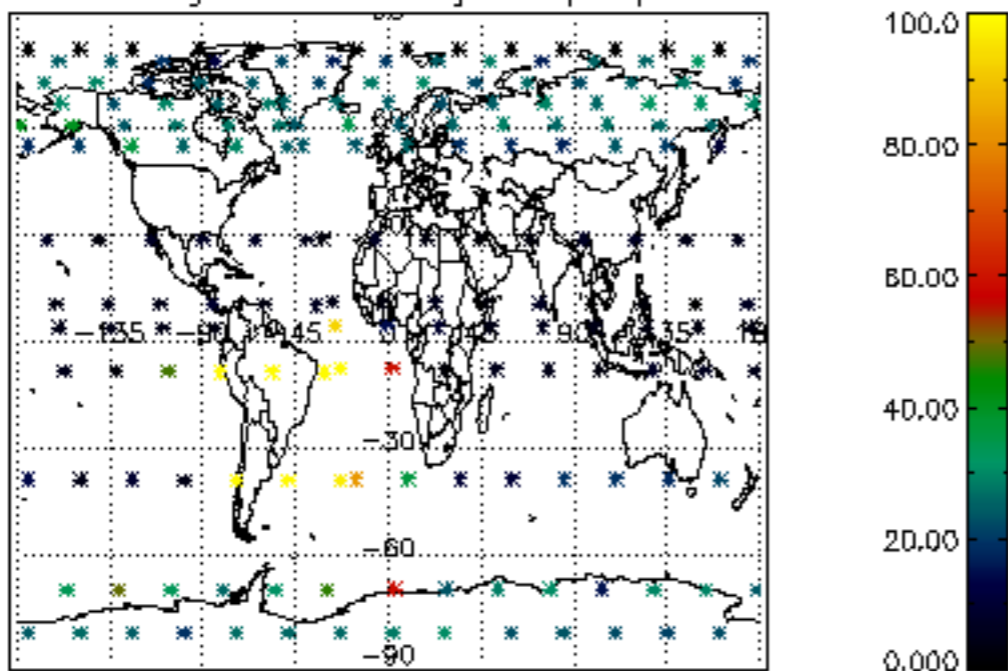
Percentage of flagged data per NO3 profile



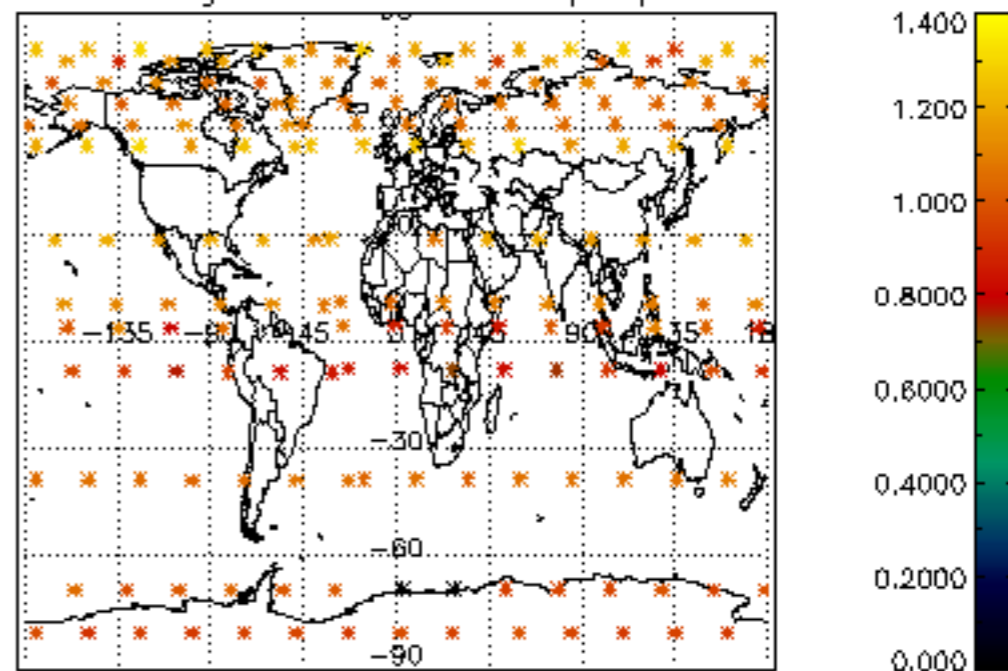




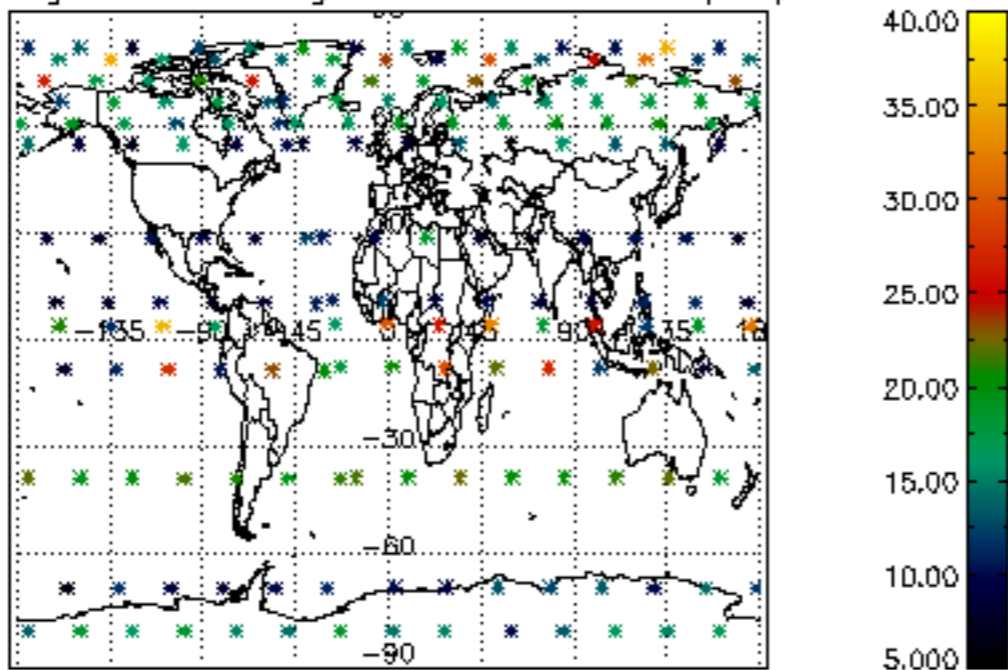
Percentage of cosmic ray hits per profile



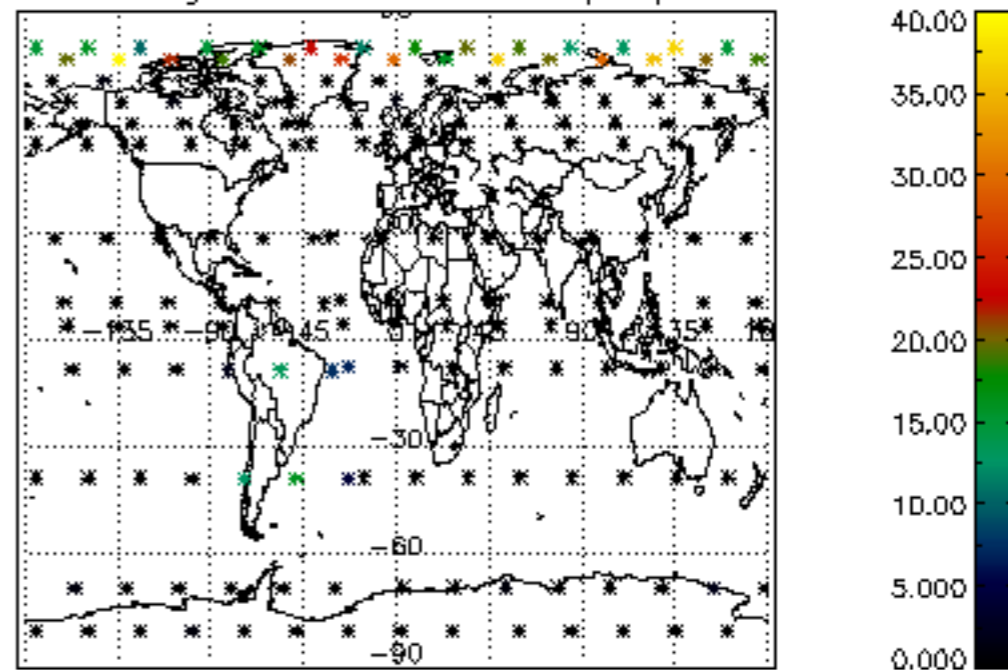
Percentage of datation errors per profile



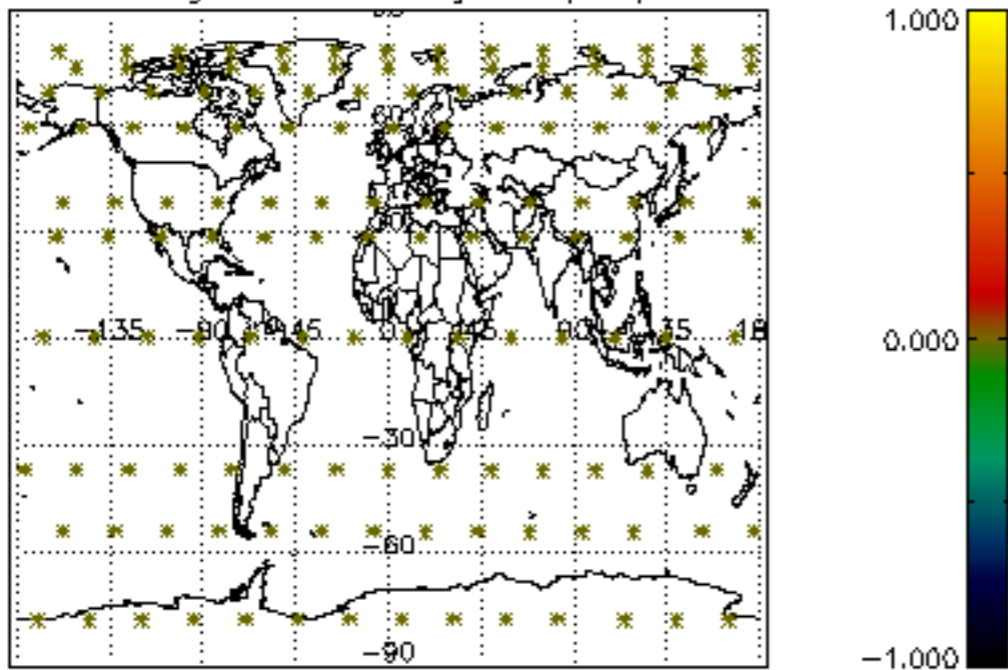
Percentage of star falling outside central band per profile



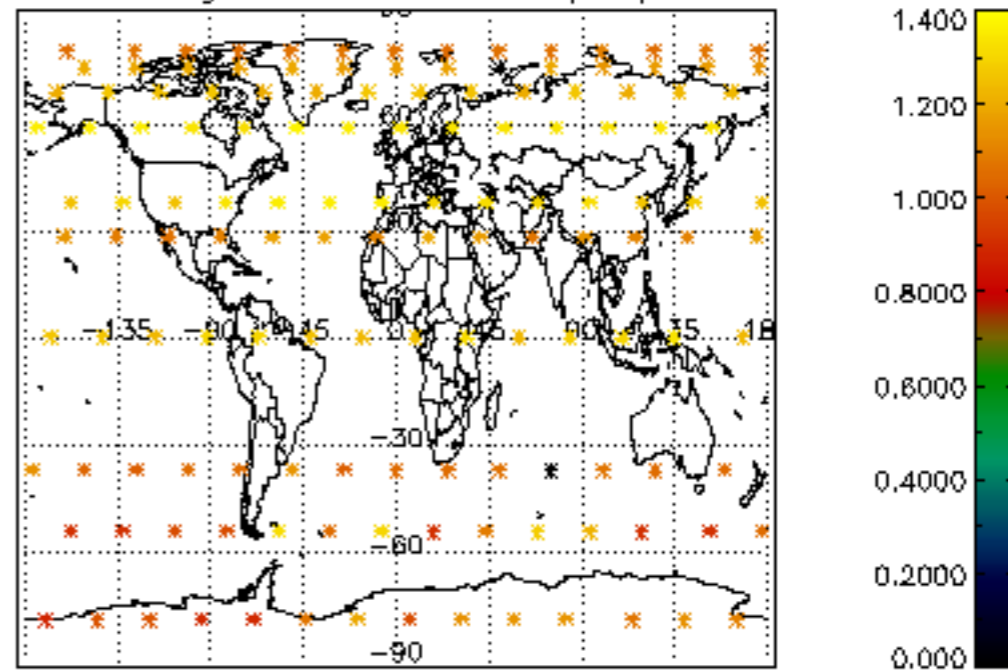
Percentage of saturation errors per profile



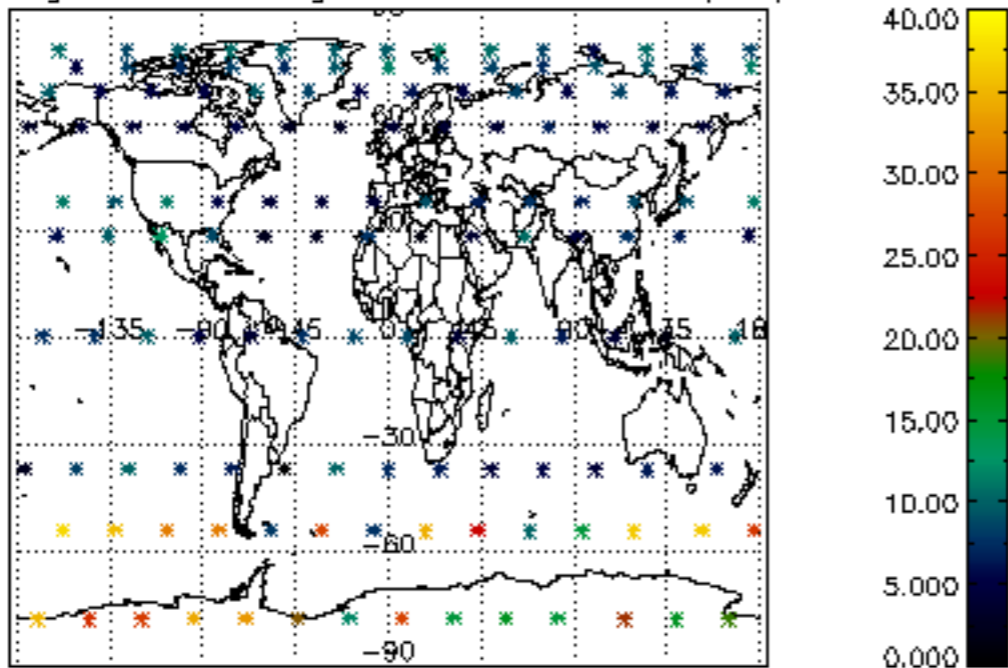
Percentage of cosmic ray hits per profile



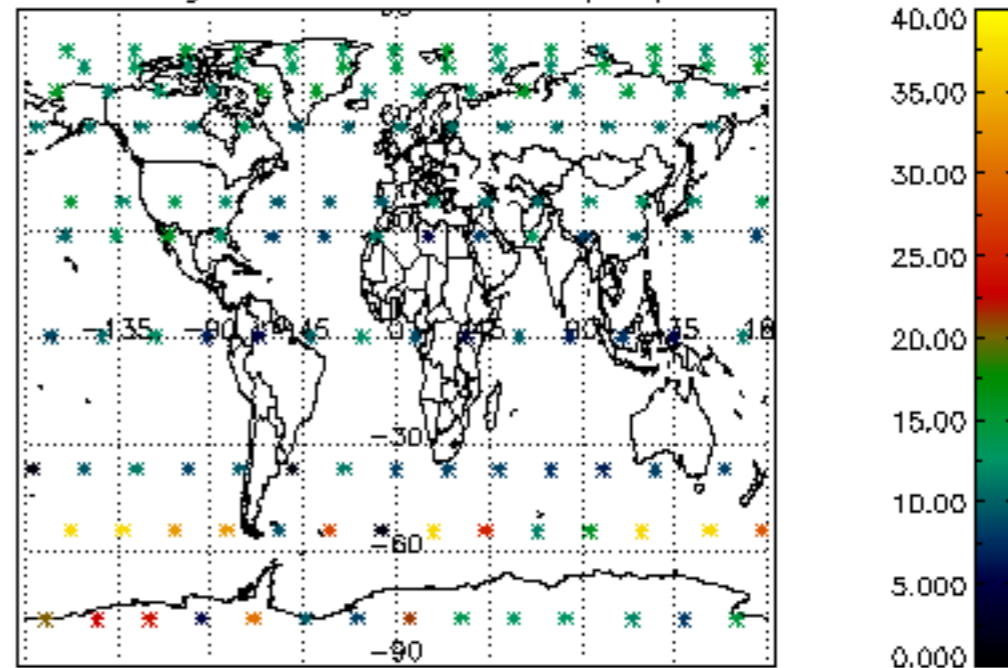
Percentage of datation errors per profile

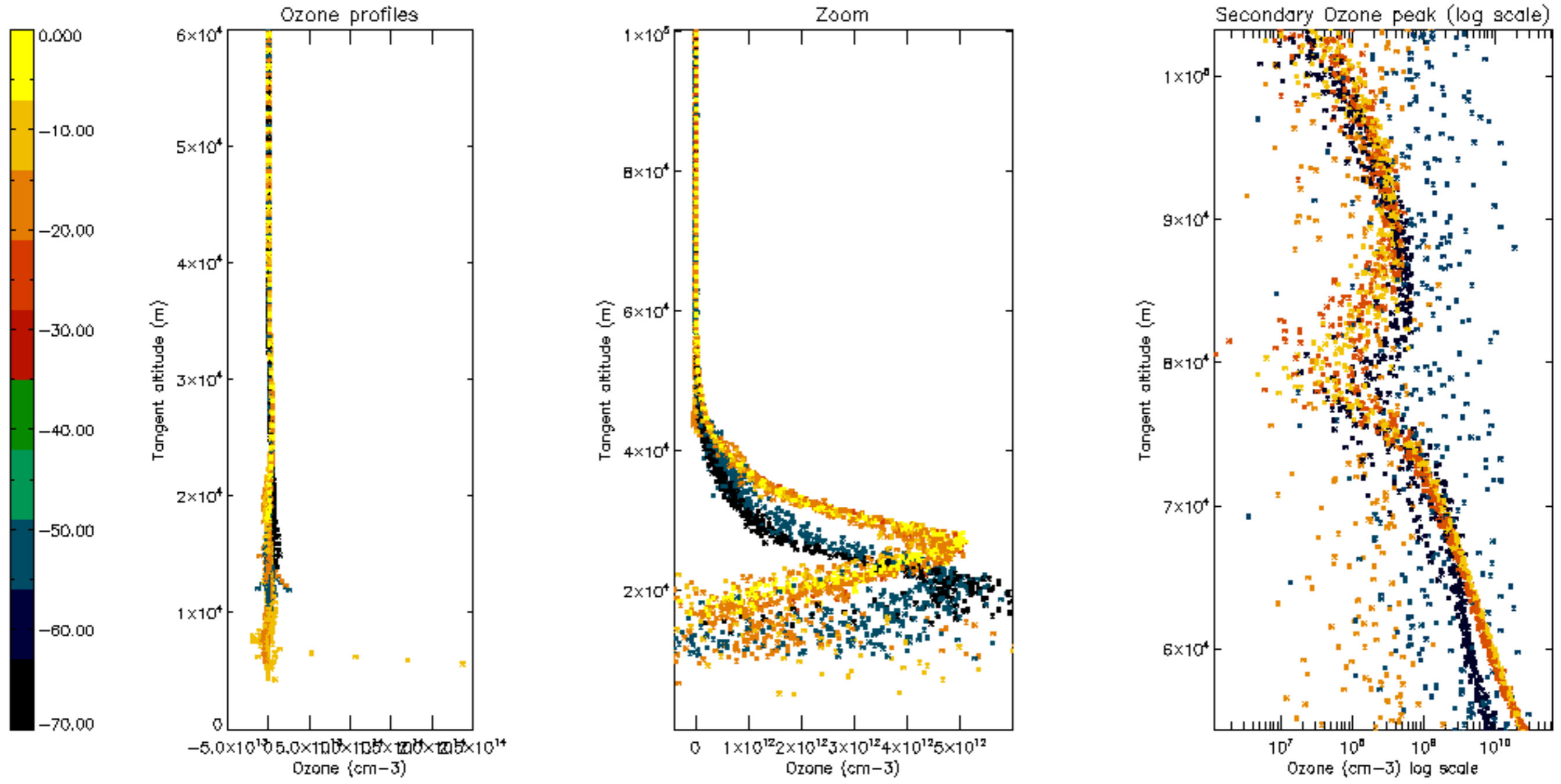


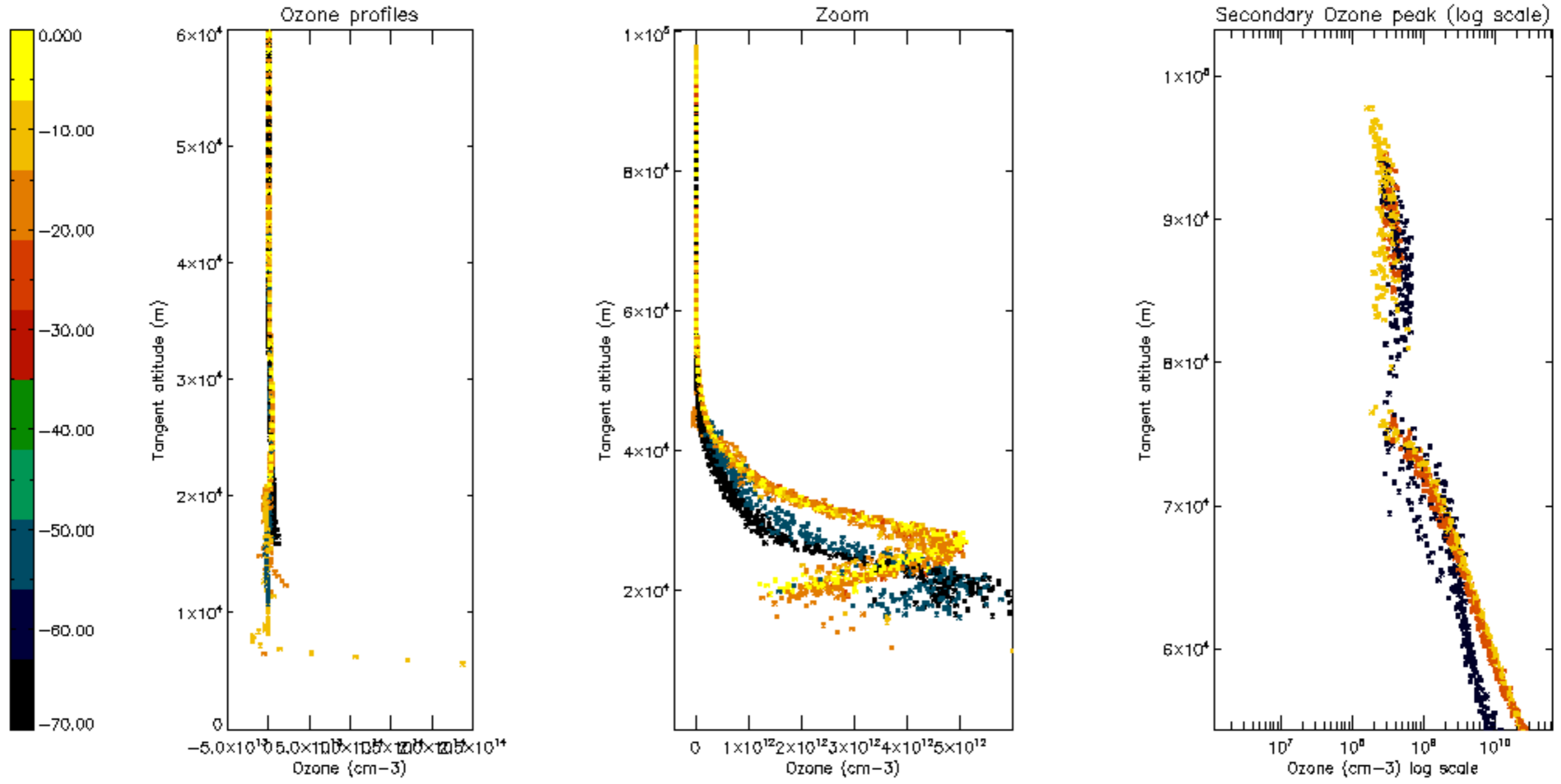
Percentage of star falling outside central band per profile

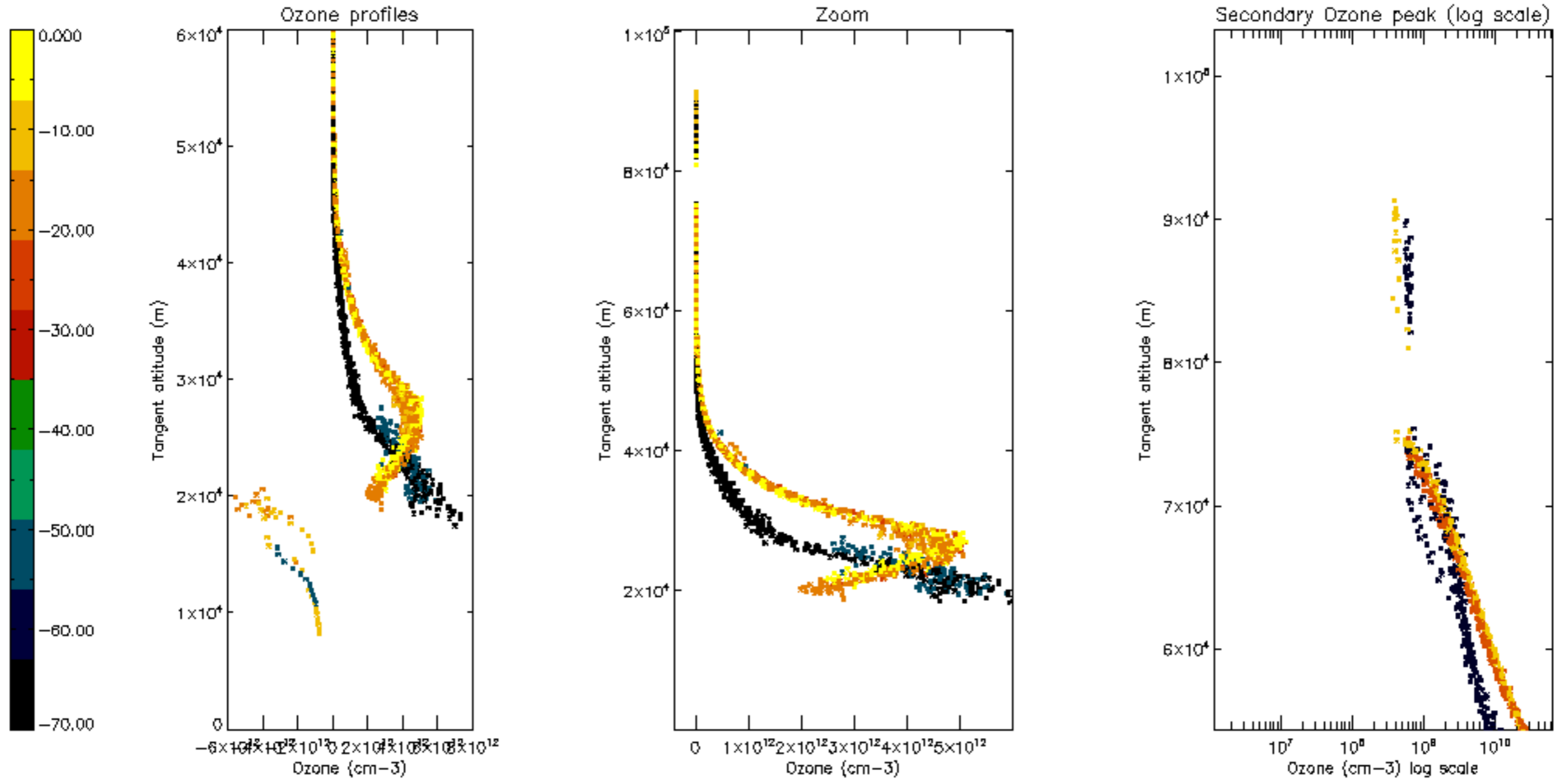


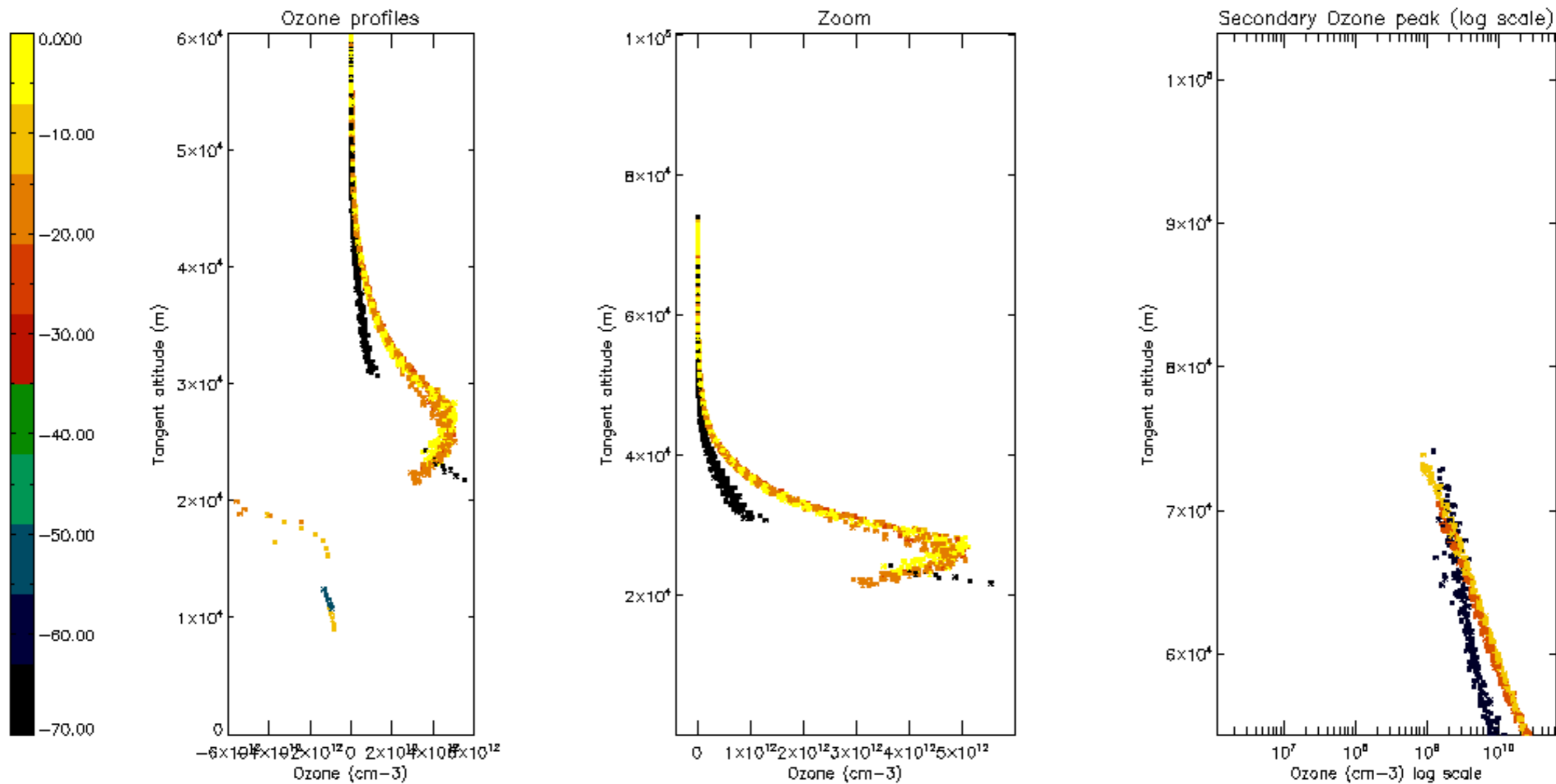
Percentage of saturation errors per profile

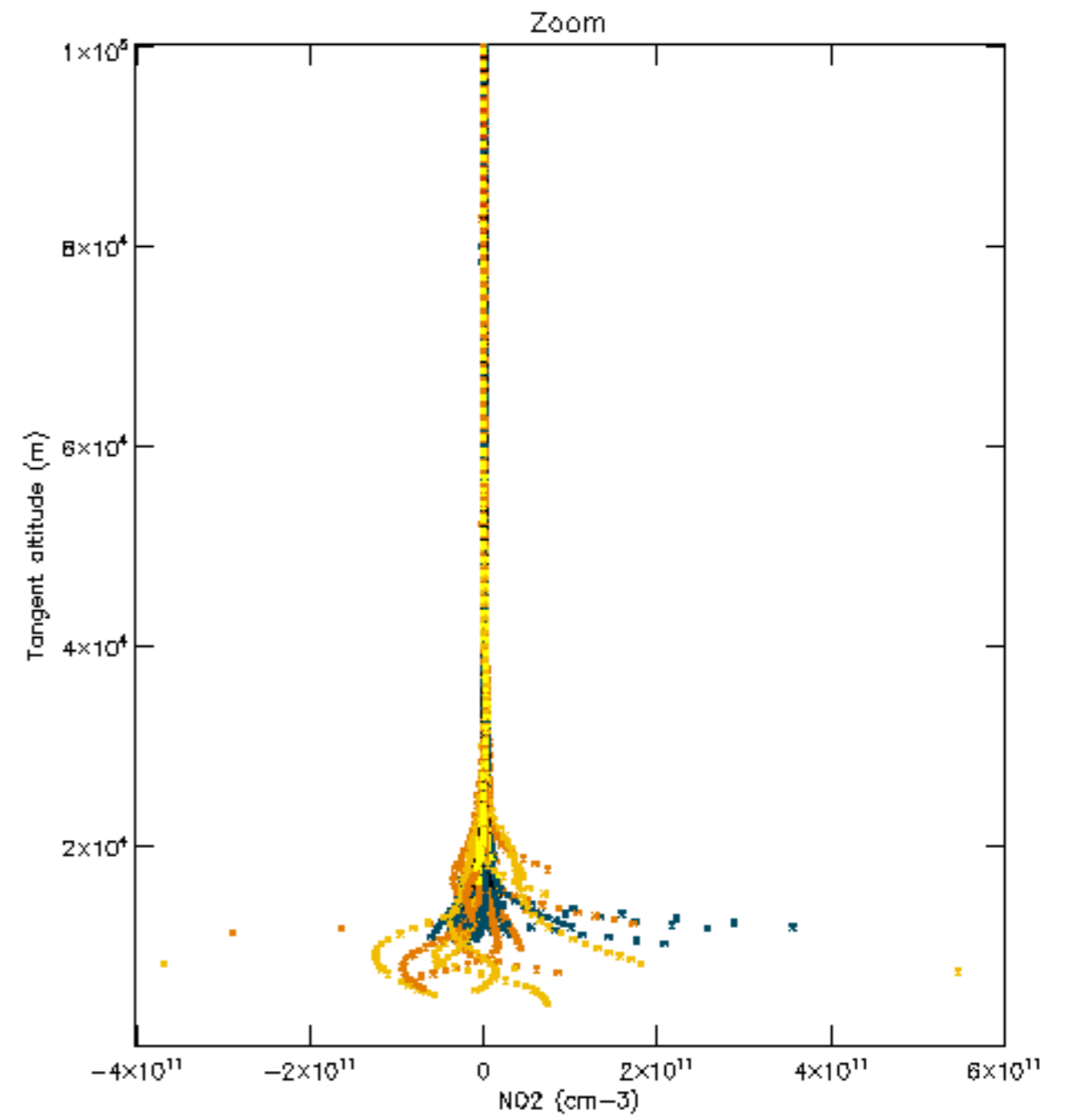
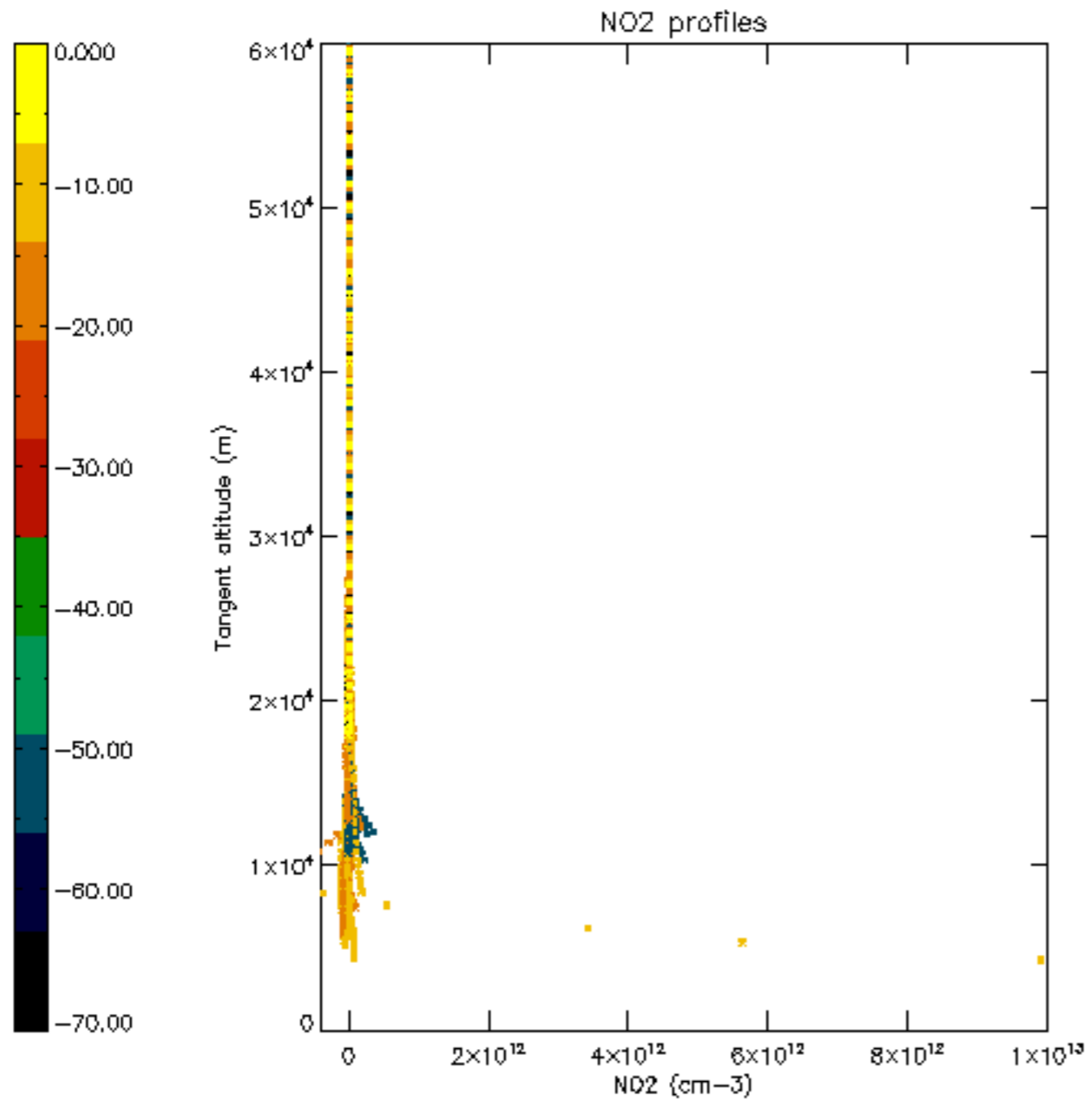


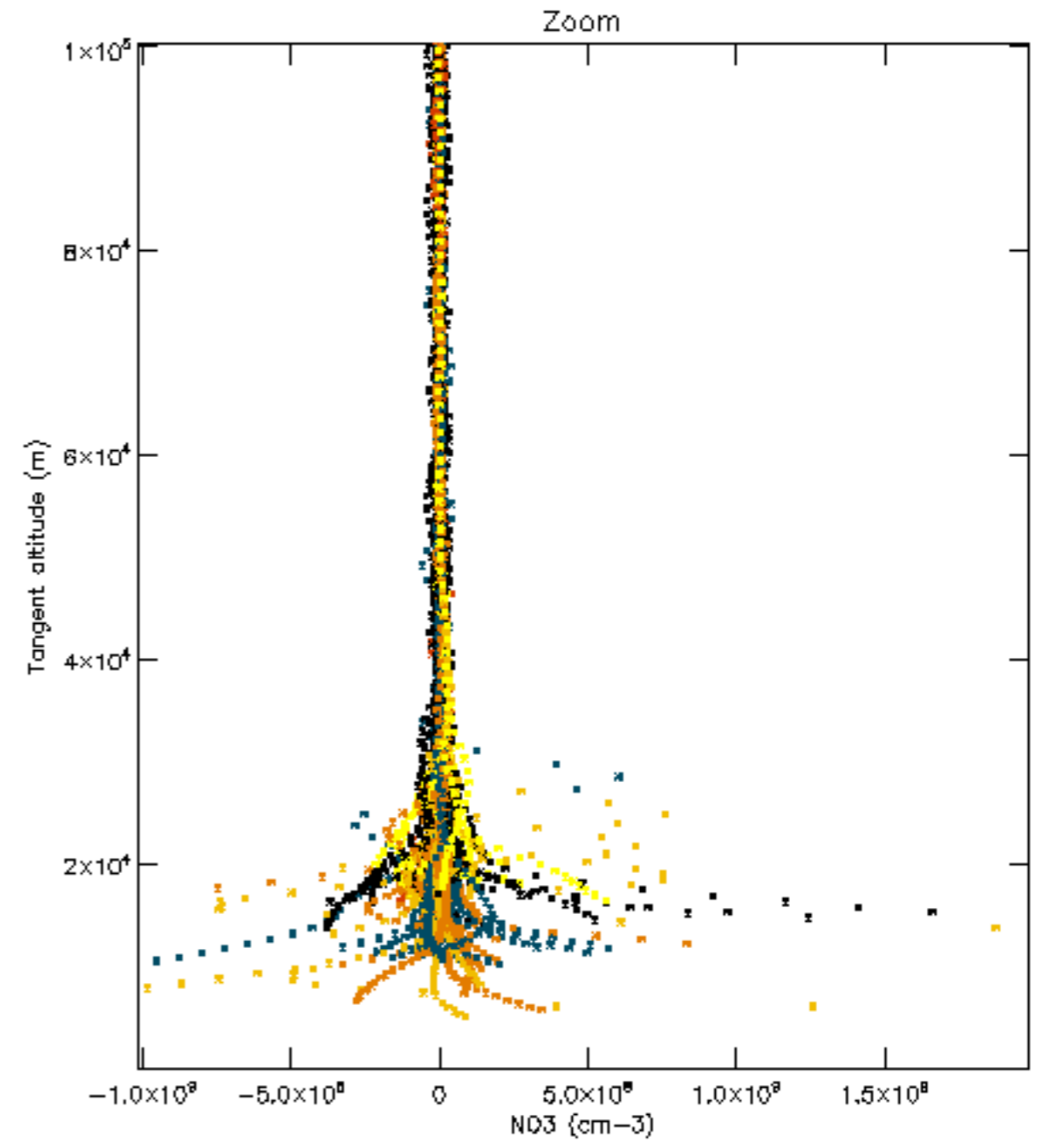
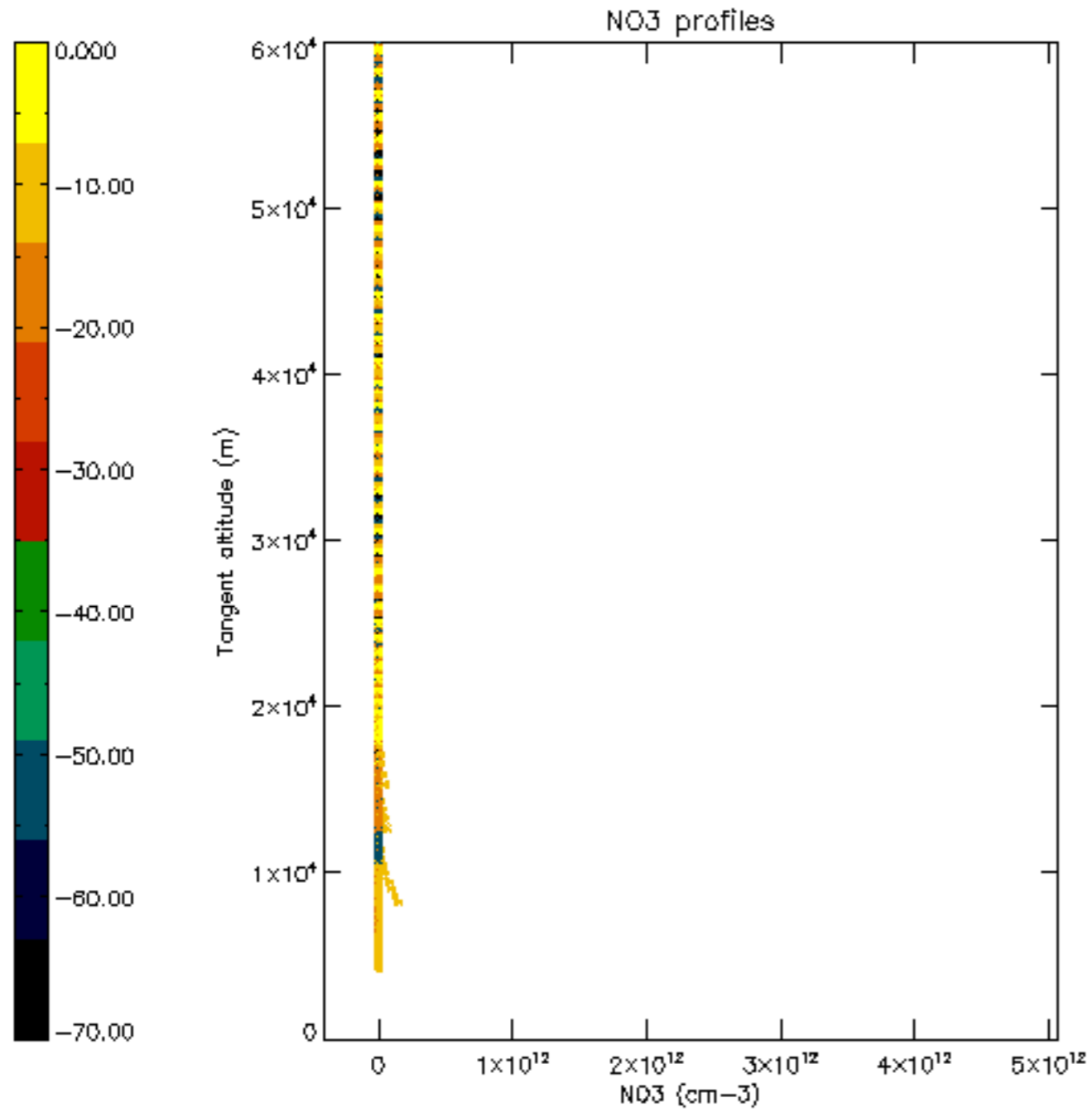


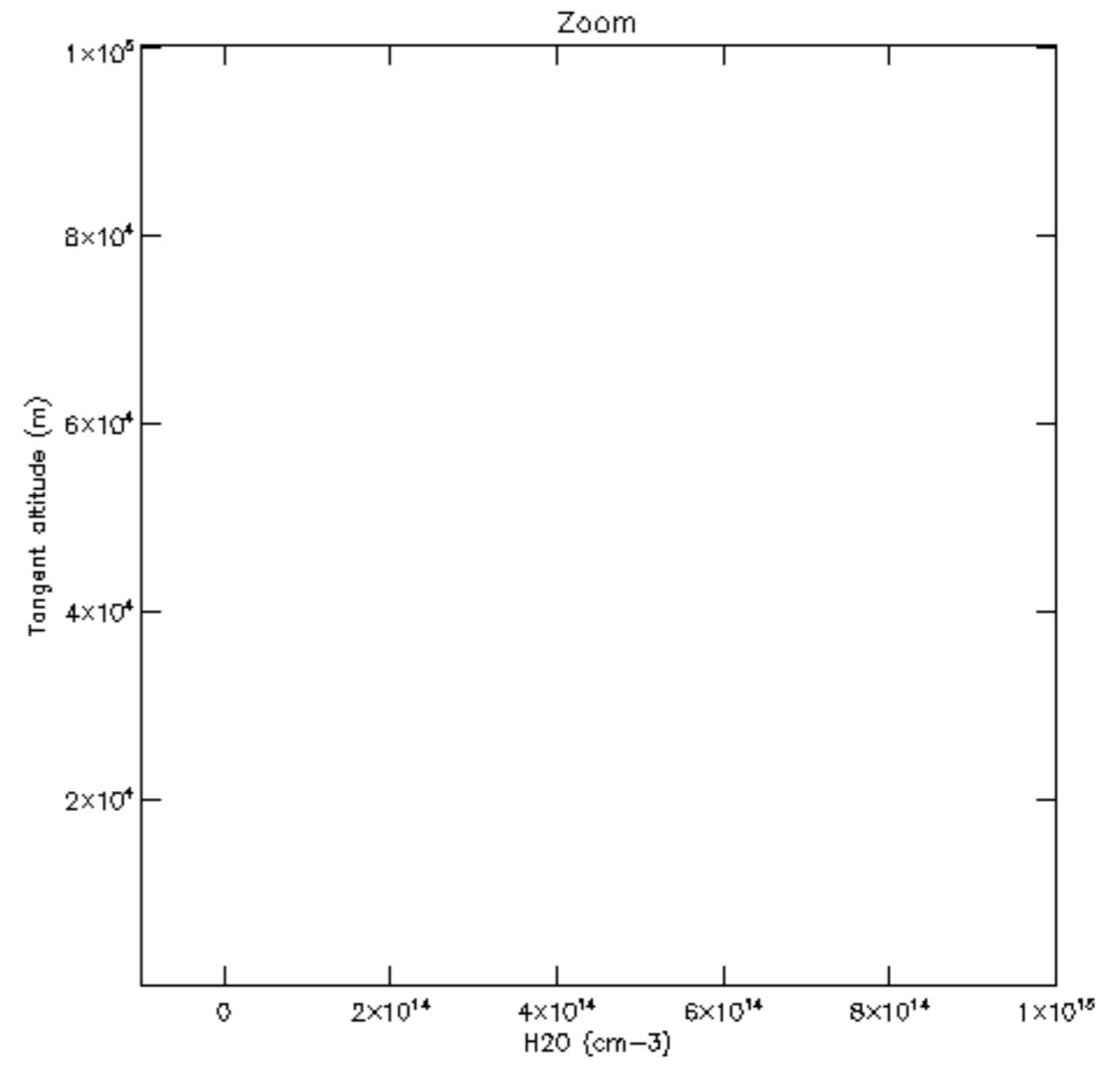
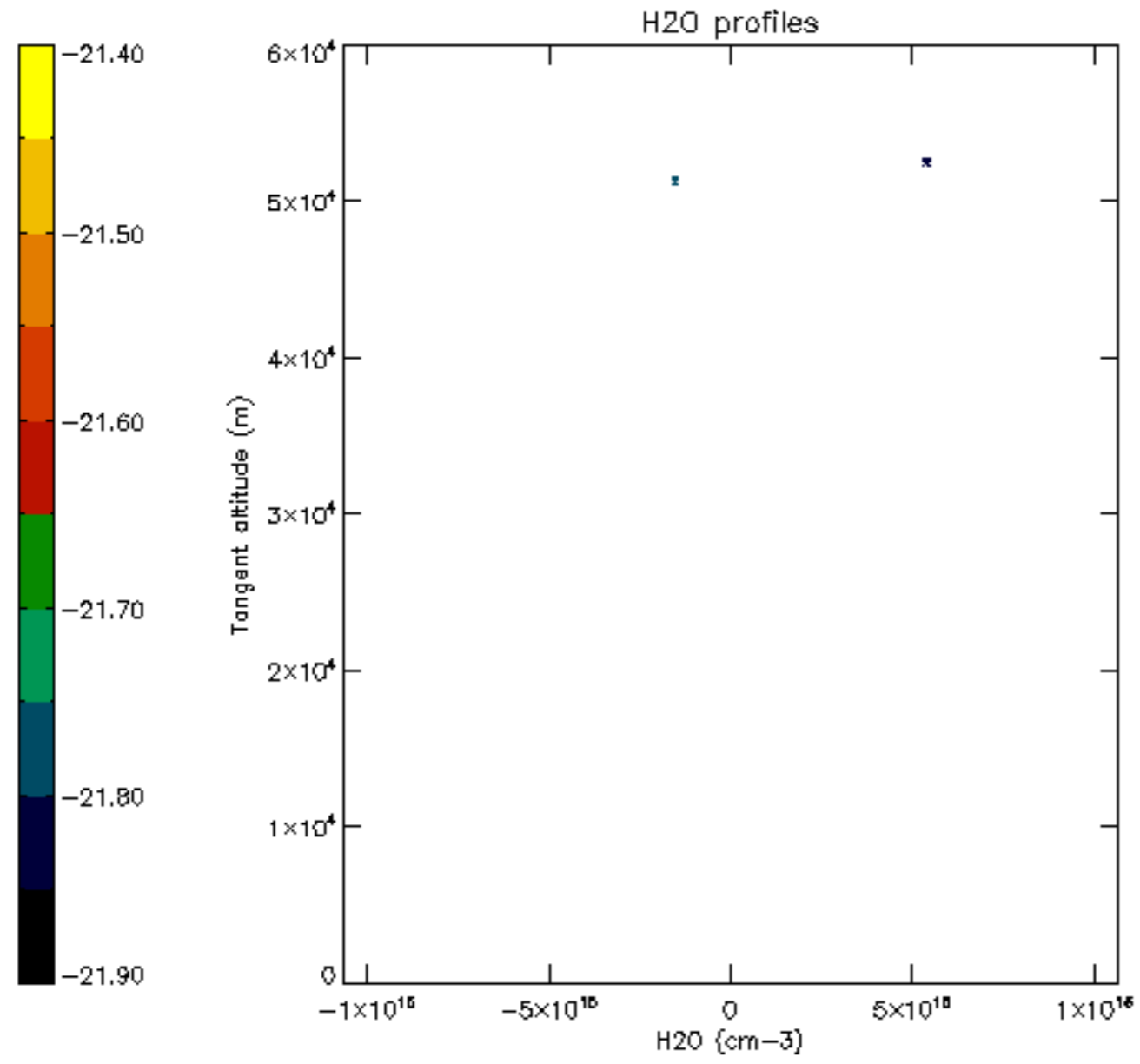


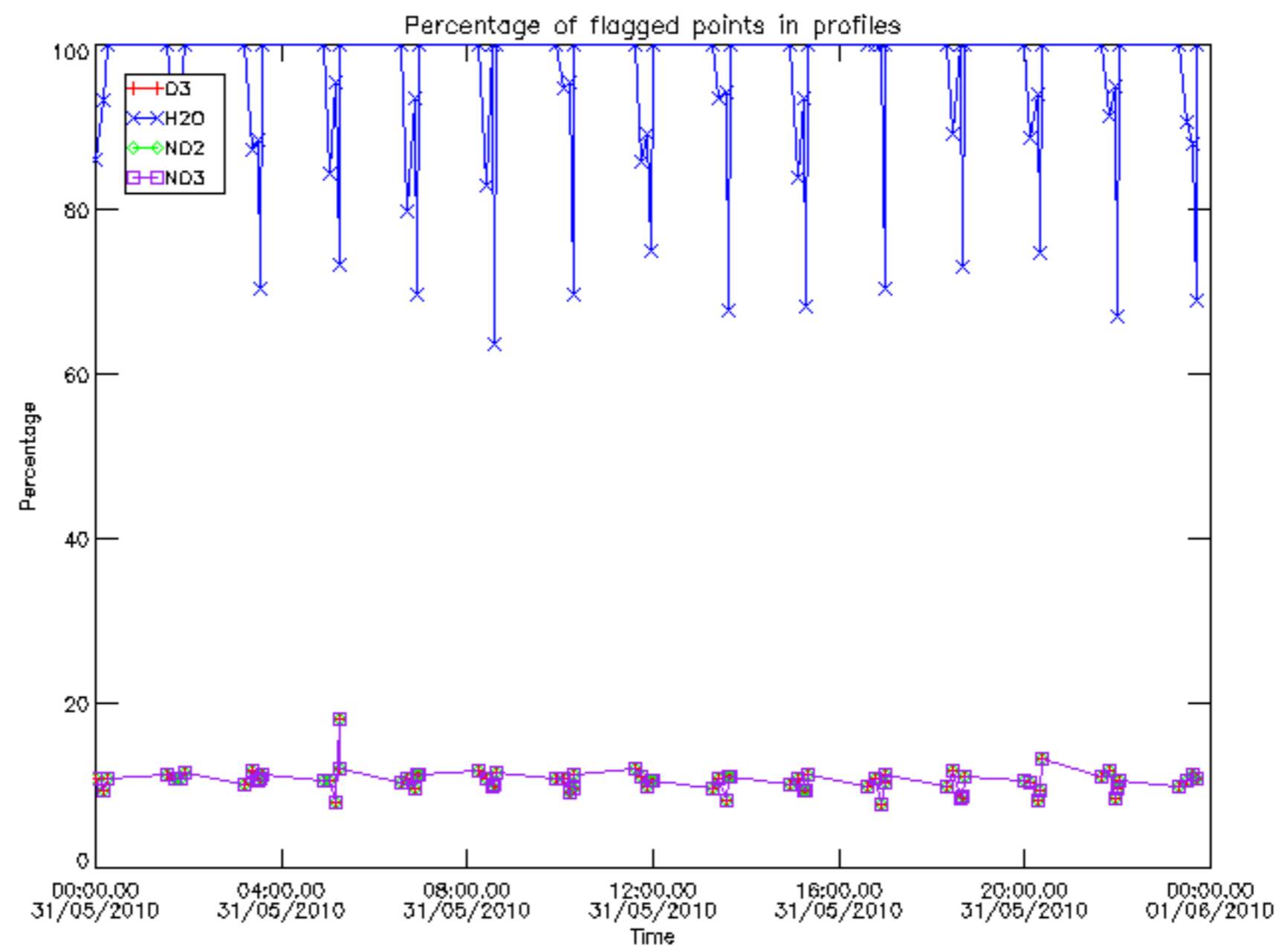




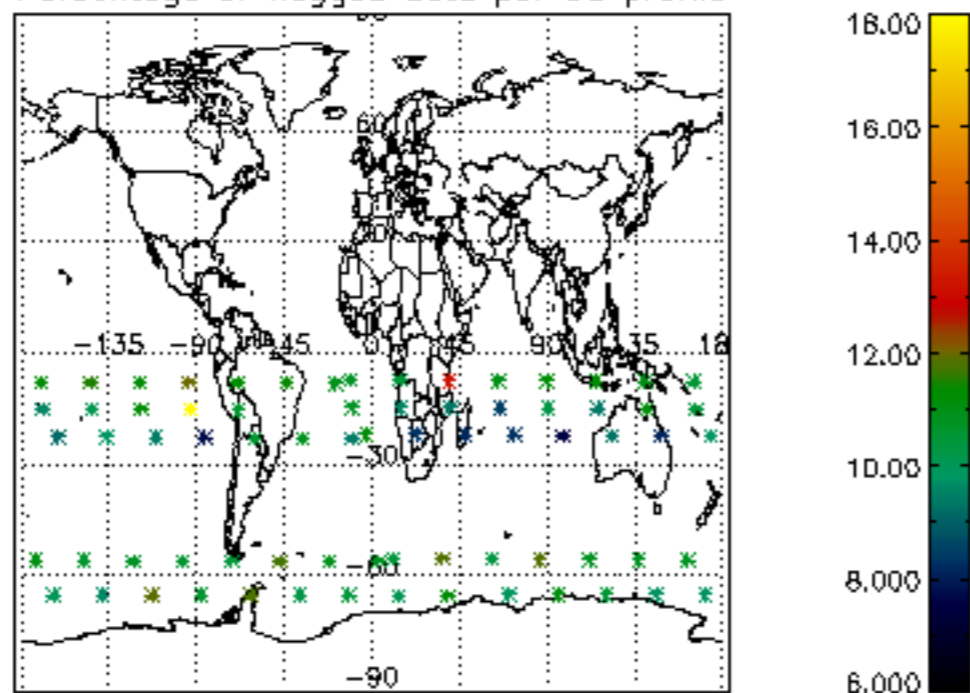




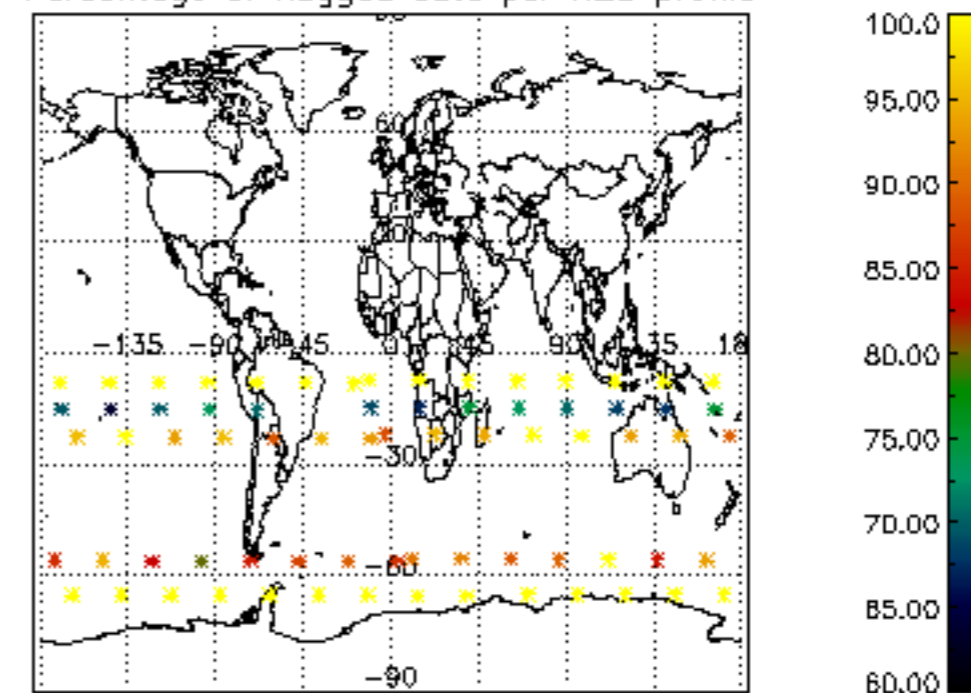




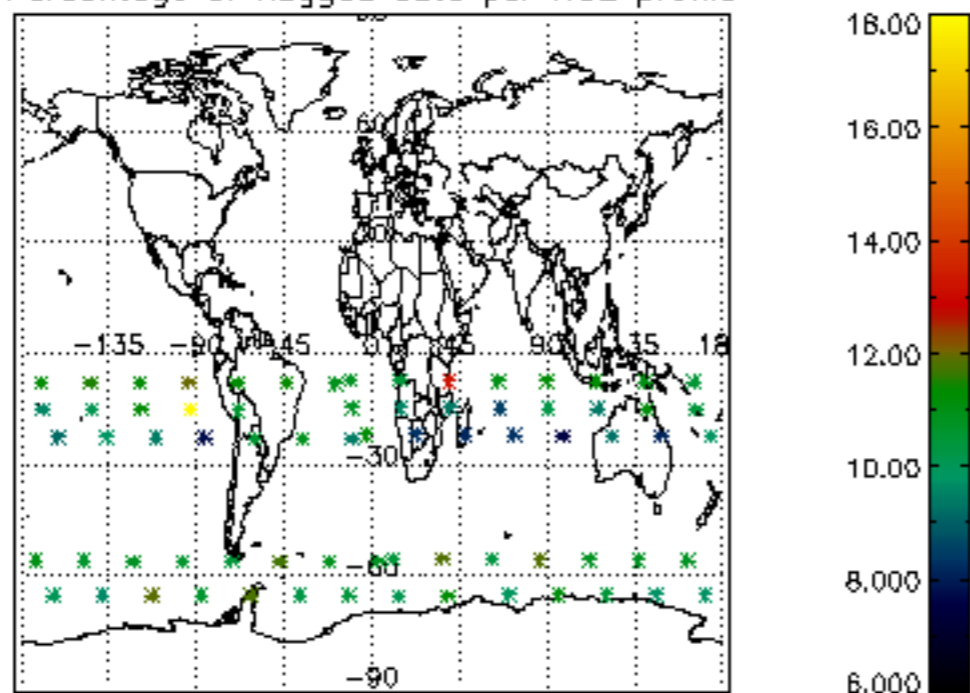
Percentage of flagged data per D3 profile



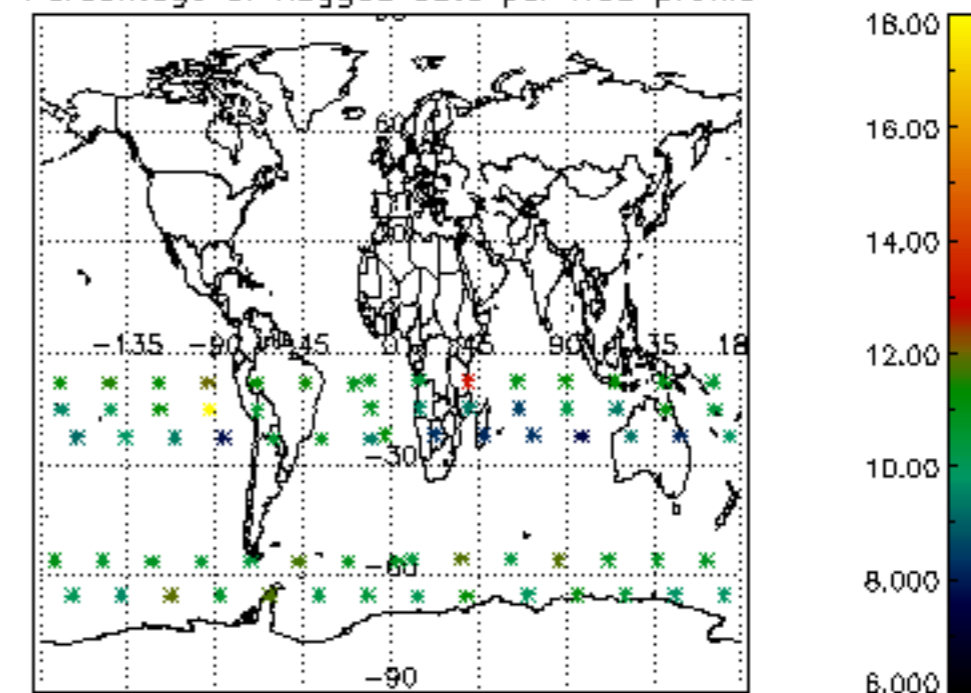
Percentage of flagged data per H2O profile

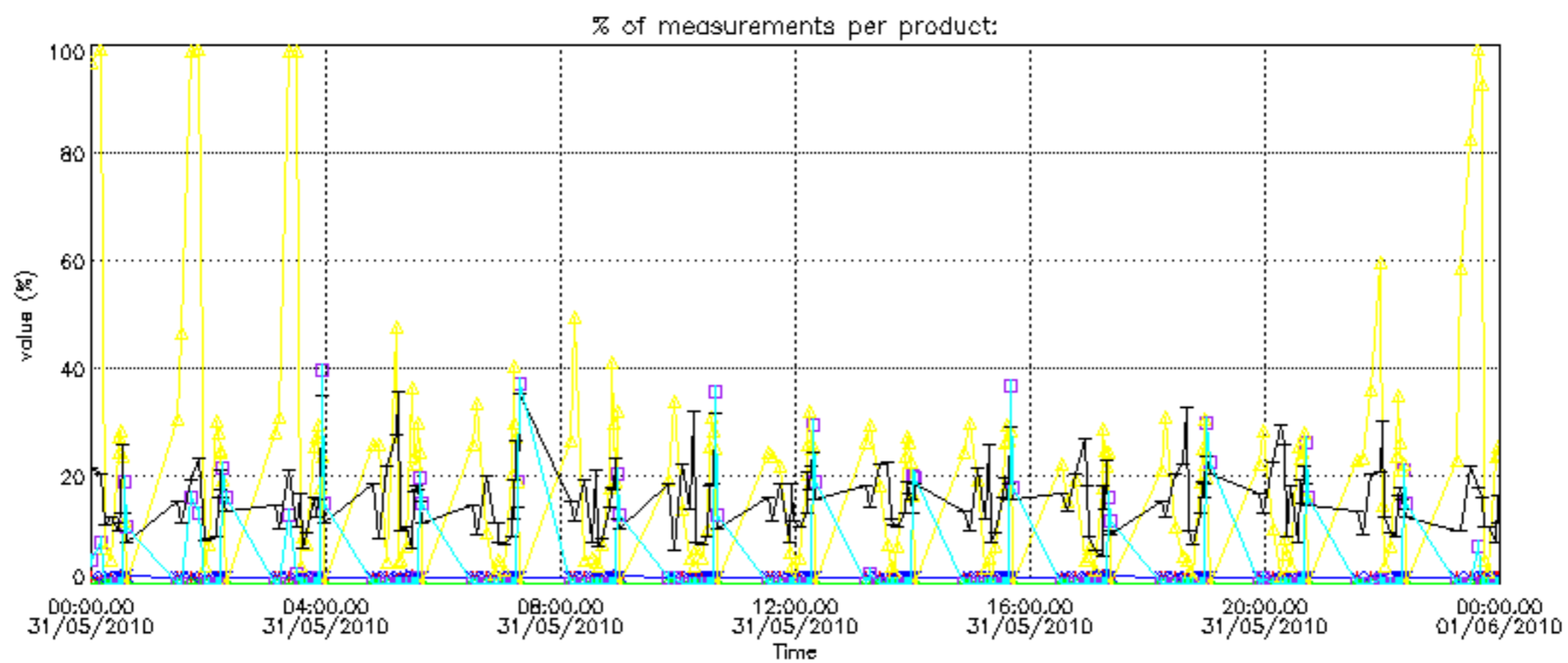
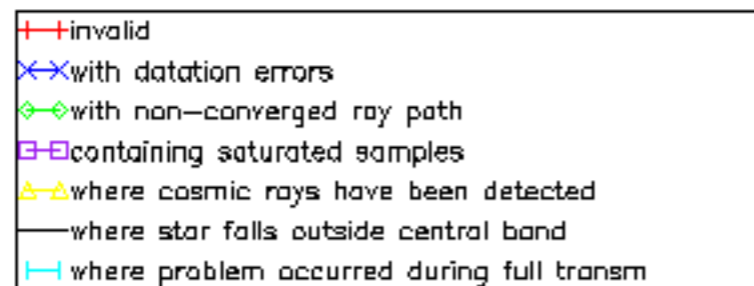


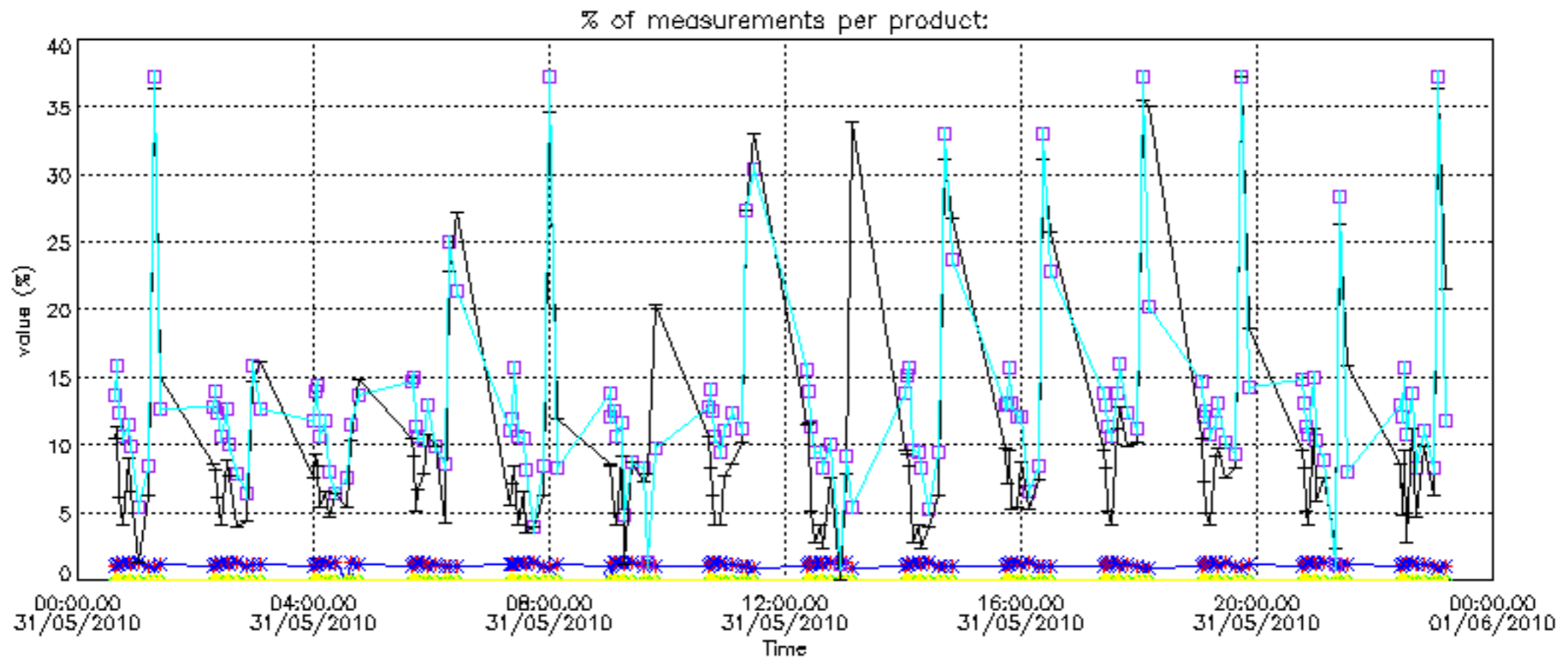
Percentage of flagged data per NO2 profile



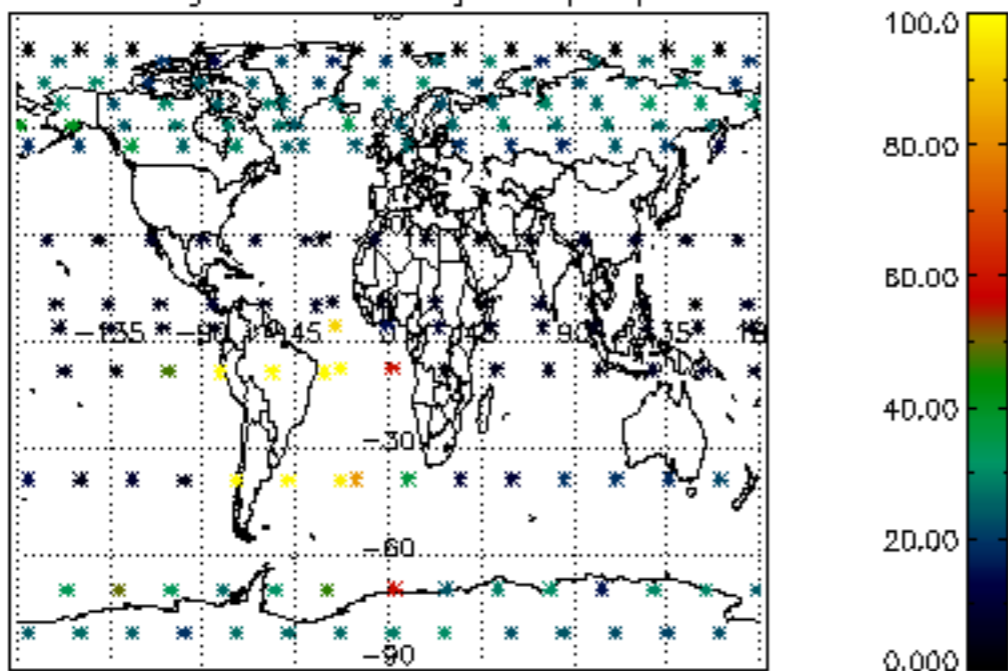
Percentage of flagged data per NO3 profile



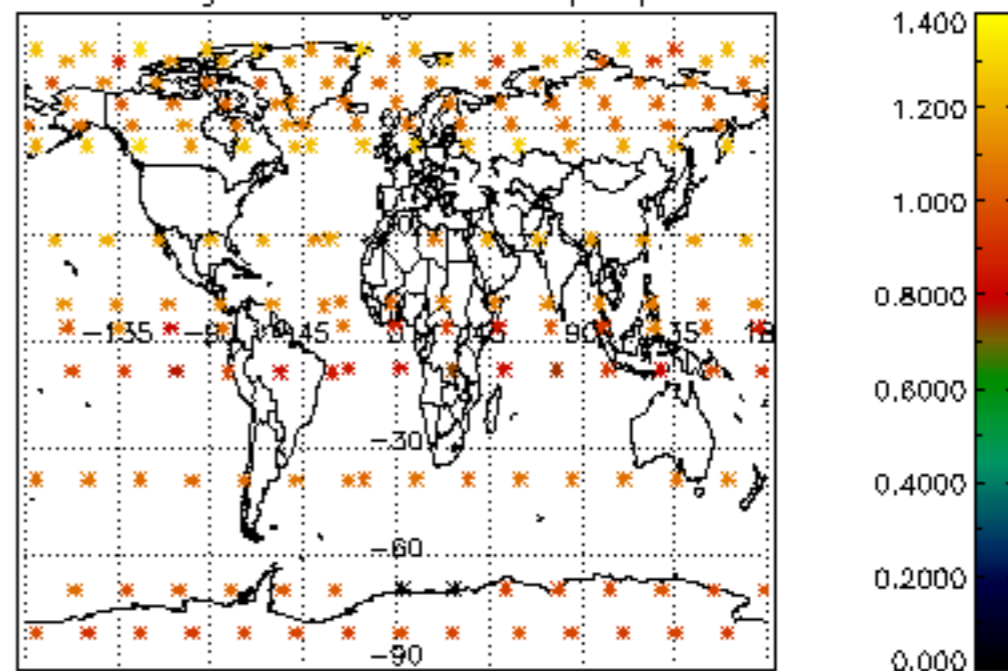




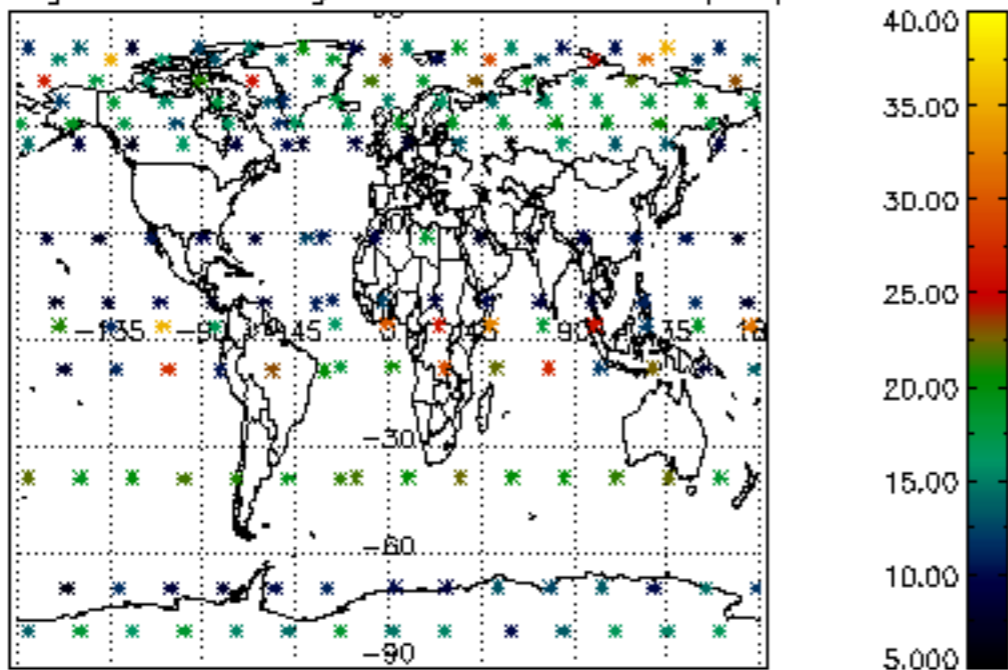
Percentage of cosmic ray hits per profile



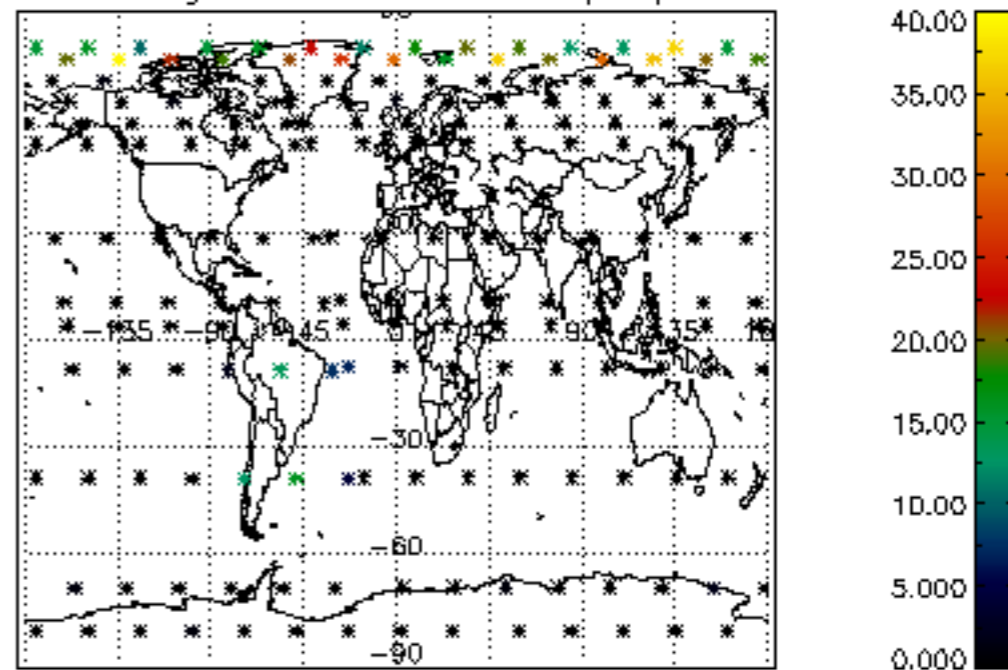
Percentage of datation errors per profile



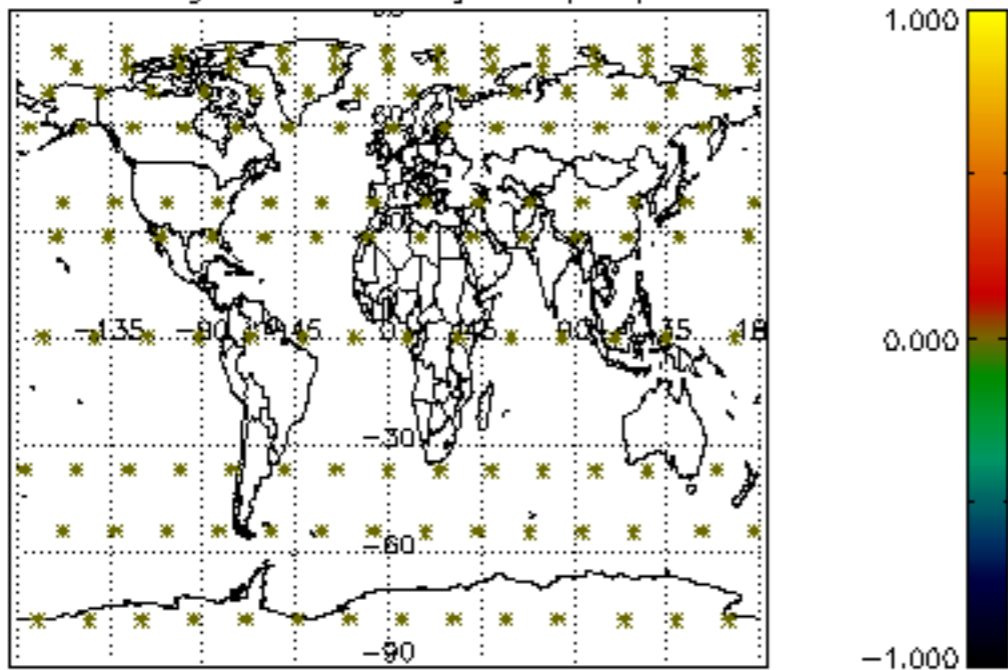
Percentage of star falling outside central band per profile



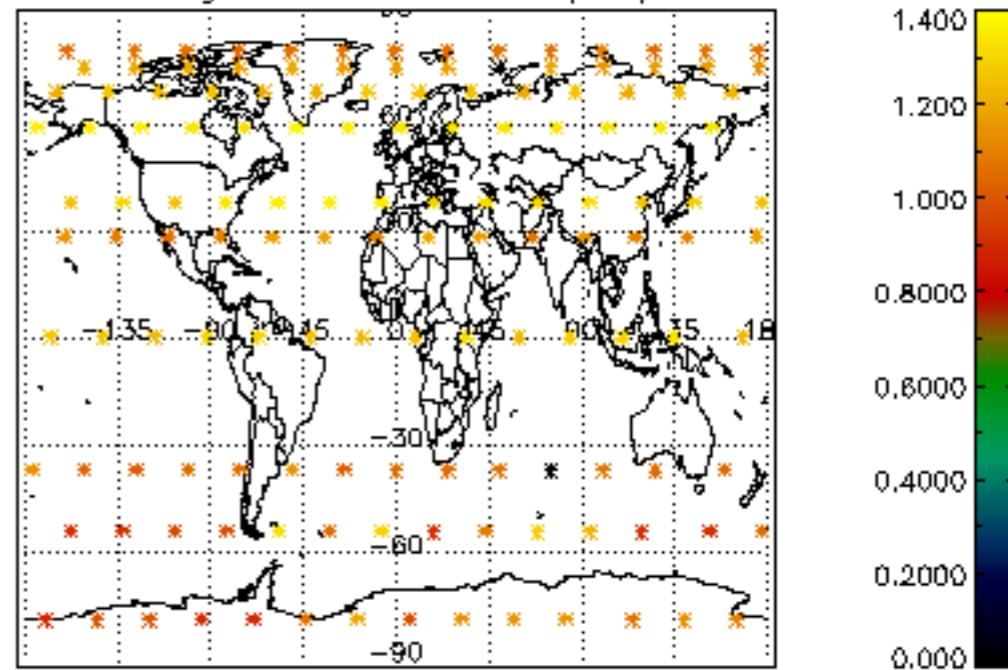
Percentage of saturation errors per profile



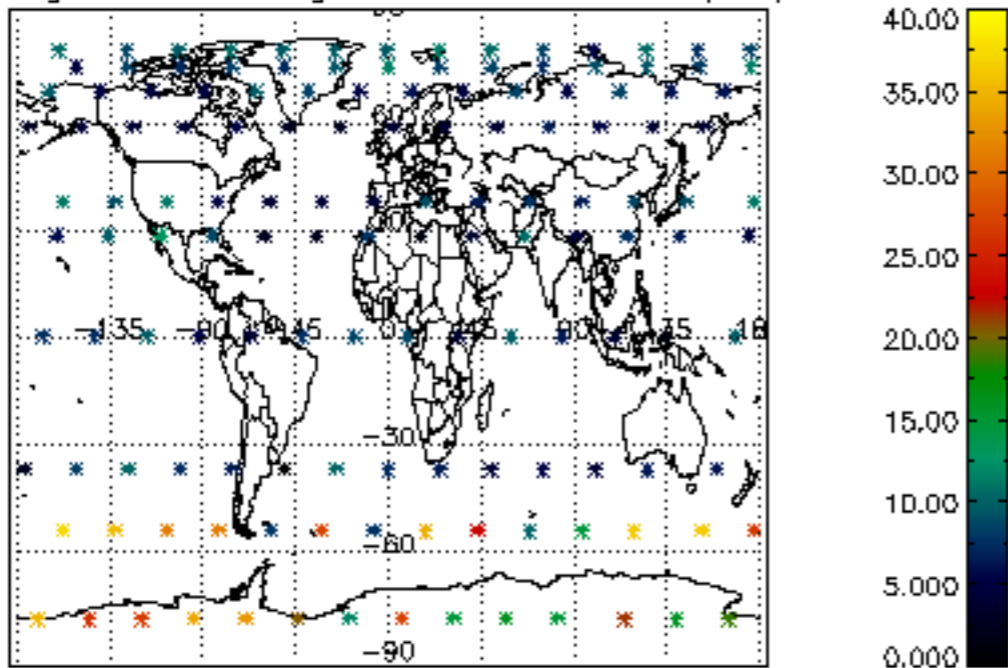
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

