

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	19APR2013 16:41:46
Data source version	GOMOS/6.01
Start time of products	28-06-2003 (28JUN2003 00:00:00)
Stop time of products	29-06-2003 (29JUN2003 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	25
Nb of prods with errors	0

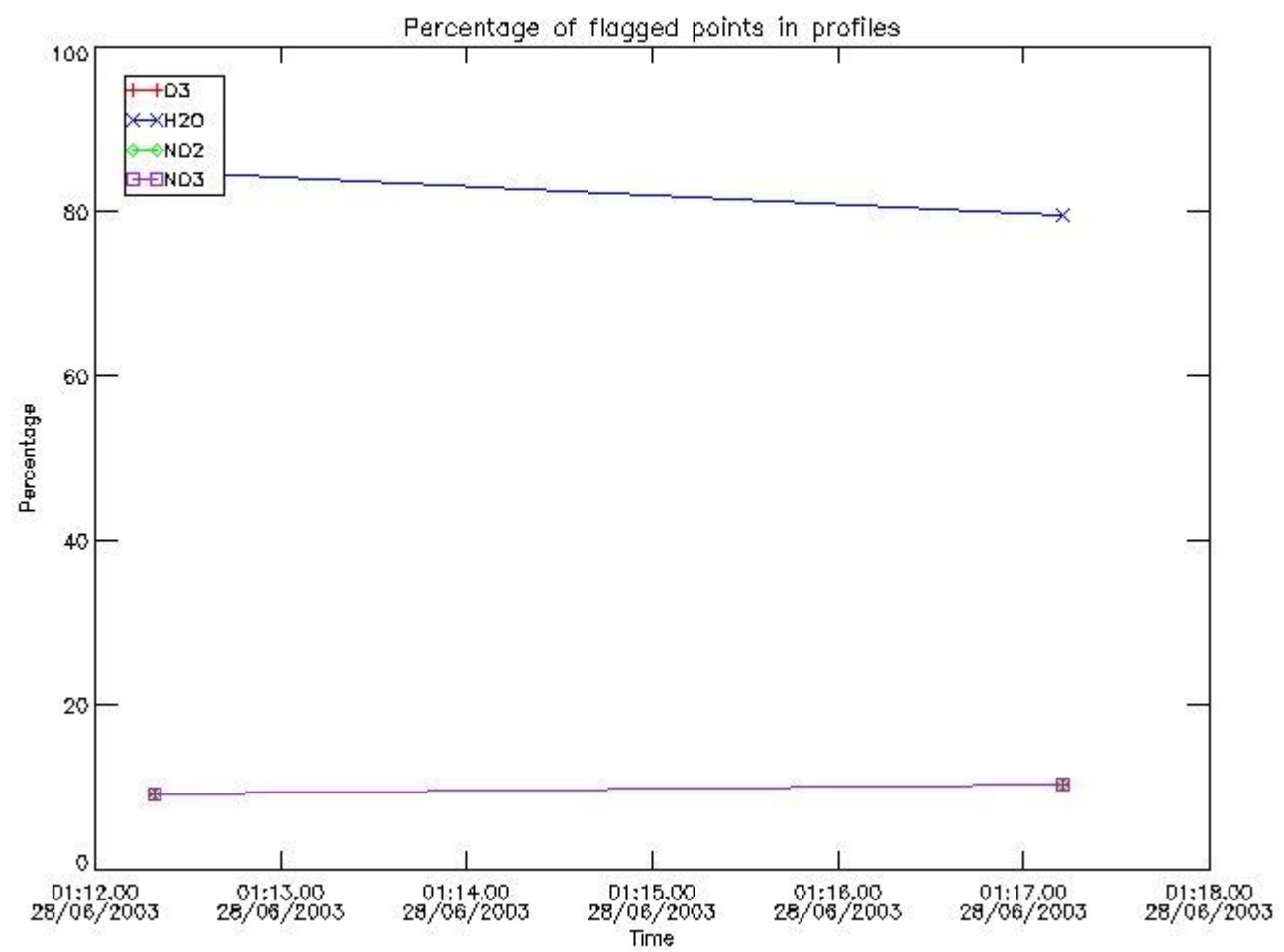
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20030628_000152_000000552017_00360_06927_6389.N1	28-JUN-2003 00:01:52	Straylight	55.000	63	Bet Gru	2.1500	2800.0	110	6927	No
2	GOM_NL__2PRFIN20030628_000351_000000522017_00360_06927_6390.N1	28-JUN-2003 00:03:51	Straylight	51.500	31	Alp Gru	1.7340	15200.	103	6927	No
3	GOM_NL__2PRFIN20030628_000635_000000422017_00360_06927_6391.N1	28-JUN-2003 00:06:35	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	6927	No
4	GOM_NL__2PRFIN20030628_001534_000000462017_00360_06927_6392.N1	28-JUN-2003 00:15:34	Twilight	46.000	38	20Eps Sgr	1.8360	11000.	92	6927	No
5	GOM_NL__2PRFIN20030628_001658_000000502017_00360_06927_6393.N1	28-JUN-2003 00:16:58	Bright	50.000	116	19Del Sgr	2.7000	4100.0	100	6927	No
6	GOM_NL__2PRFIN20030628_001811_000000432017_00360_06927_6394.N1	28-JUN-2003 00:18:11	Bright	43.000	137	22Lam Sgr	2.8240	4400.0	86	6927	No
7	GOM_NL__2PRFIN20030628_002019_000002152017_00360_06927_6395.N1	28-JUN-2003 00:20:19	Twilight	215.00	142	49Del Cap	2.8500	8900.0	430	6927	No
8	GOM_NL__2PRFIN20030628_002738_000000392017_00360_06927_6396.N1	28-JUN-2003 00:27:38	Bright	38.500	126	60Bet Oph	2.7700	4250.0	77	6927	No
9	GOM_NL__2PRFIN20030628_002959_000000392017_00360_06927_6397.N1	28-JUN-2003 00:29:59	Bright	38.500	59	55Alp Oph	2.0800	8900.0	77	6927	No
10	GOM_NL__2PRFIN20030628_003216_000000532017_00360_06927_6398.N1	28-JUN-2003 00:32:16	Bright	52.500	168	17Zet Aql	2.9860	11000.	105	6927	No
11	GOM_NL__2PRFIN20030628_003520_000000372017_00360_06927_6399.N1	28-JUN-2003 00:35:20	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	6927	No
12	GOM_NL__2PRFIN20030628_003911_000000472017_00360_06927_6400.N1	28-JUN-2003 00:39:11	Bright	46.500	5	3Alp Lyr	0.033000	11000.	93	6927	No
13	GOM_NL__2PRFIN20030628_004132_000000382017_00360_06927_6401.N1	28-JUN-2003 00:41:32	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	6927	No
14	GOM_NL__2PRFIN20030628_004352_000000322017_00360_06927_6402.N1	28-JUN-2003 00:43:52	Bright	31.500	119	14Eta Dra	2.7270	4700.0	63	6927	No
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16	GOM_NL__2PRFIN20030628_004803_000000612017_00360_06927_6404.N1	28-JUN-2003 00:48:03	Bright	60.500	19	50Alp Cyg	1.2460	10500.	121	6927	No
17	GOM_NL__2PRFIN20030628_005051_000000462017_00360_06927_6405.N1	28-JUN-2003 00:50:51	Bright	45.500	89	5Alp Cep	2.4510	8000.0	91	6927	No
18	GOM_NL__2PRFIN20030628_005804_000000502017_00360_06927_6406.N1	28-JUN-2003 00:58:04	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	6927	No
19	GOM_NL__2PRFIN20030628_005942_000000492017_00360_06927_6407.N1	28-JUN-2003 00:59:42	Bright	49.000	68	18Alp Cas	2.2250	4500.0	98	6927	No
20	GOM_NL__2PRFIN20030628_010219_000000412017_00360_06927_6408.N1	28-JUN-2003 01:02:19	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	6927	No
21	GOM_NL__2PRFIN20030628_010358_000000532017_00360_06927_6409.N1	28-JUN-2003 01:03:58	Bright	53.000	175	39Del Per	3.0100	19400.	106	6927	No
22	GOM_NL__2PRFIN20030628_010544_000000492017_00360_06927_6410.N1	28-JUN-2003 01:05:44	Bright	49.000	73	57Gam1And	2.2600	13100.	98	6927	No
23	GOM_NL__2PRFIN20030628_010813_000000752017_00360_06927_6411.N1	28-JUN-2003 01:08:13	Twilight	74.500	53	43Bet And	2.0480	3300.0	149	6927	No
24	GOM_NL__2PRFIN20030628_011219_000000562017_00360_06927_6412.N1	28-JUN-2003 01:12:19	Dark	56.000	50	13Alp Ari	2.0070	4250.0	112	6927	No
25	GOM_NL__2PRFIN20030628_011712_000000502017_00360_06927_6413.N1	28-JUN-2003 01:17:12	Dark	49.500	94	92Alp Cet	2.5260	3100.0	99	6927	No

3. Quality information per product

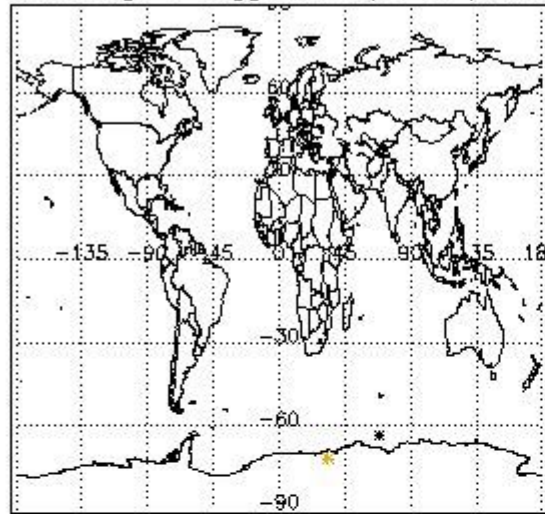
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

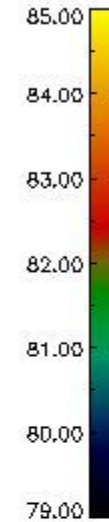
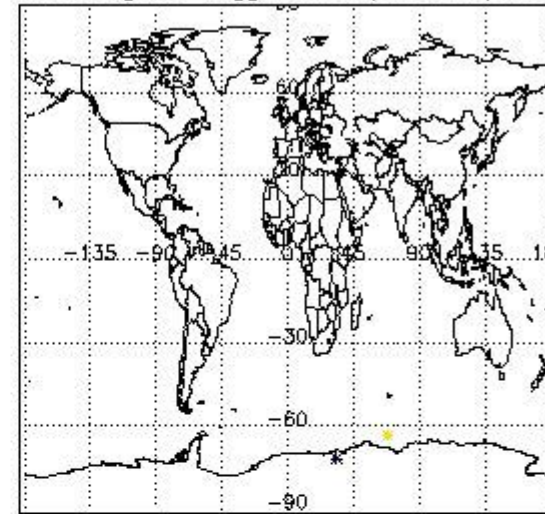


3.2 Plot quality information per product (world map)

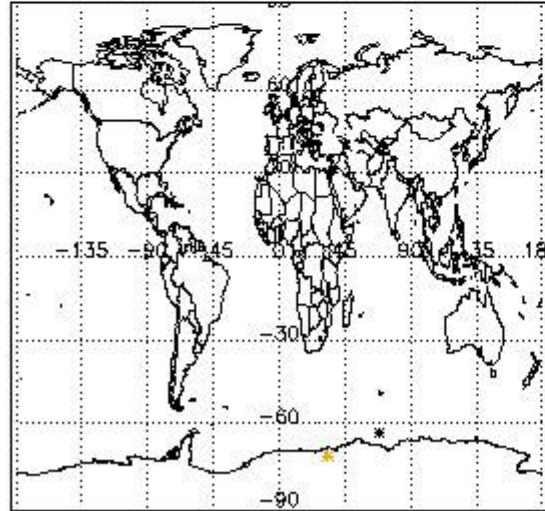
Percentage of flagged data per O3 profile



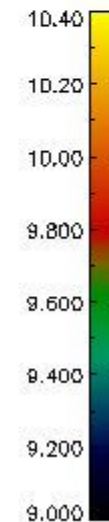
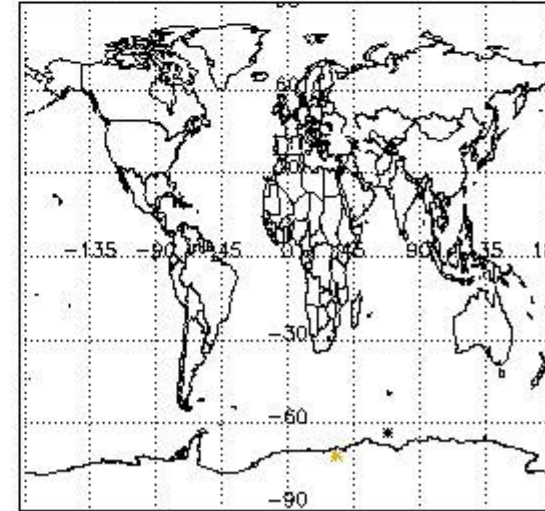
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

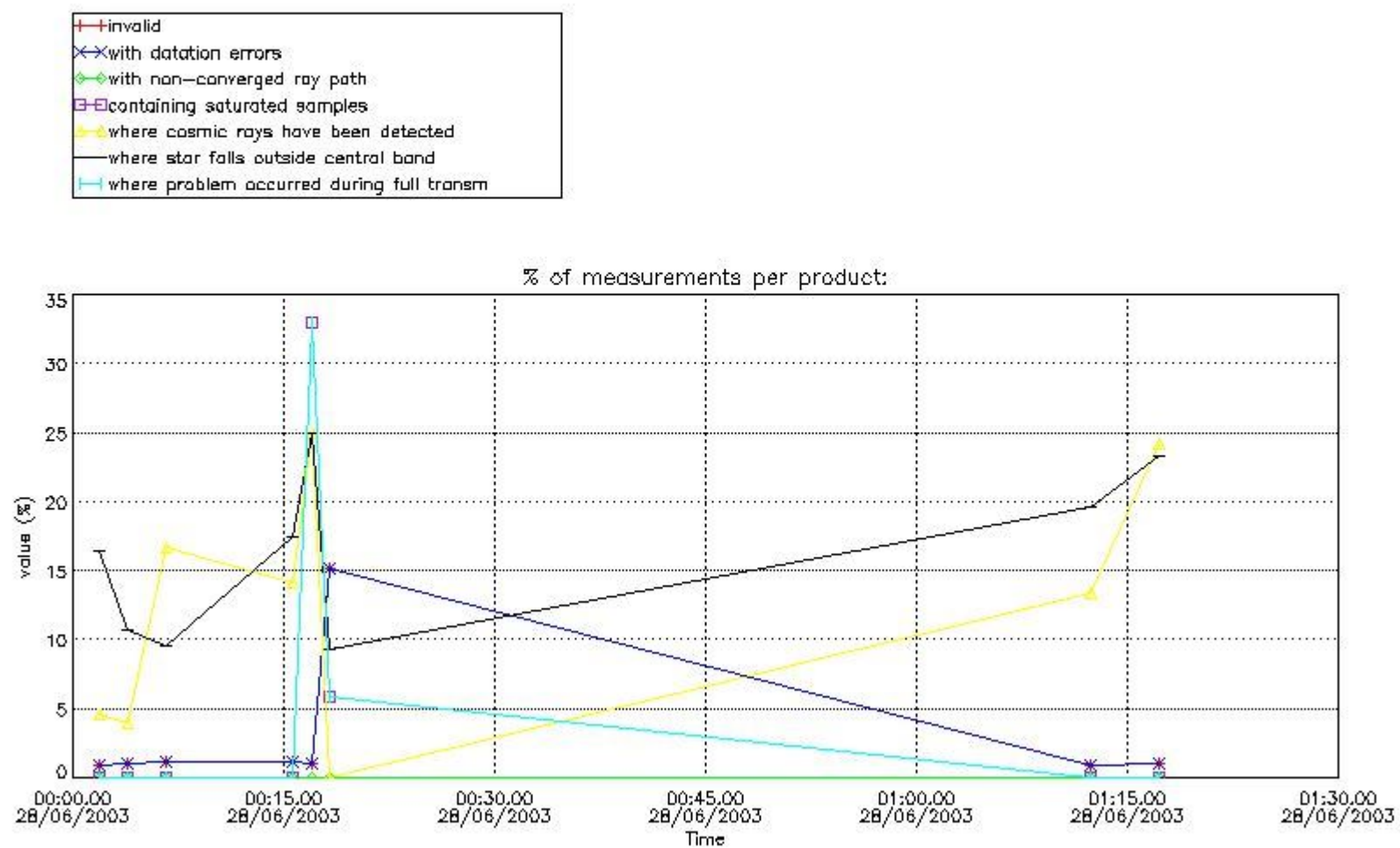


4. Level 1 quality information per product

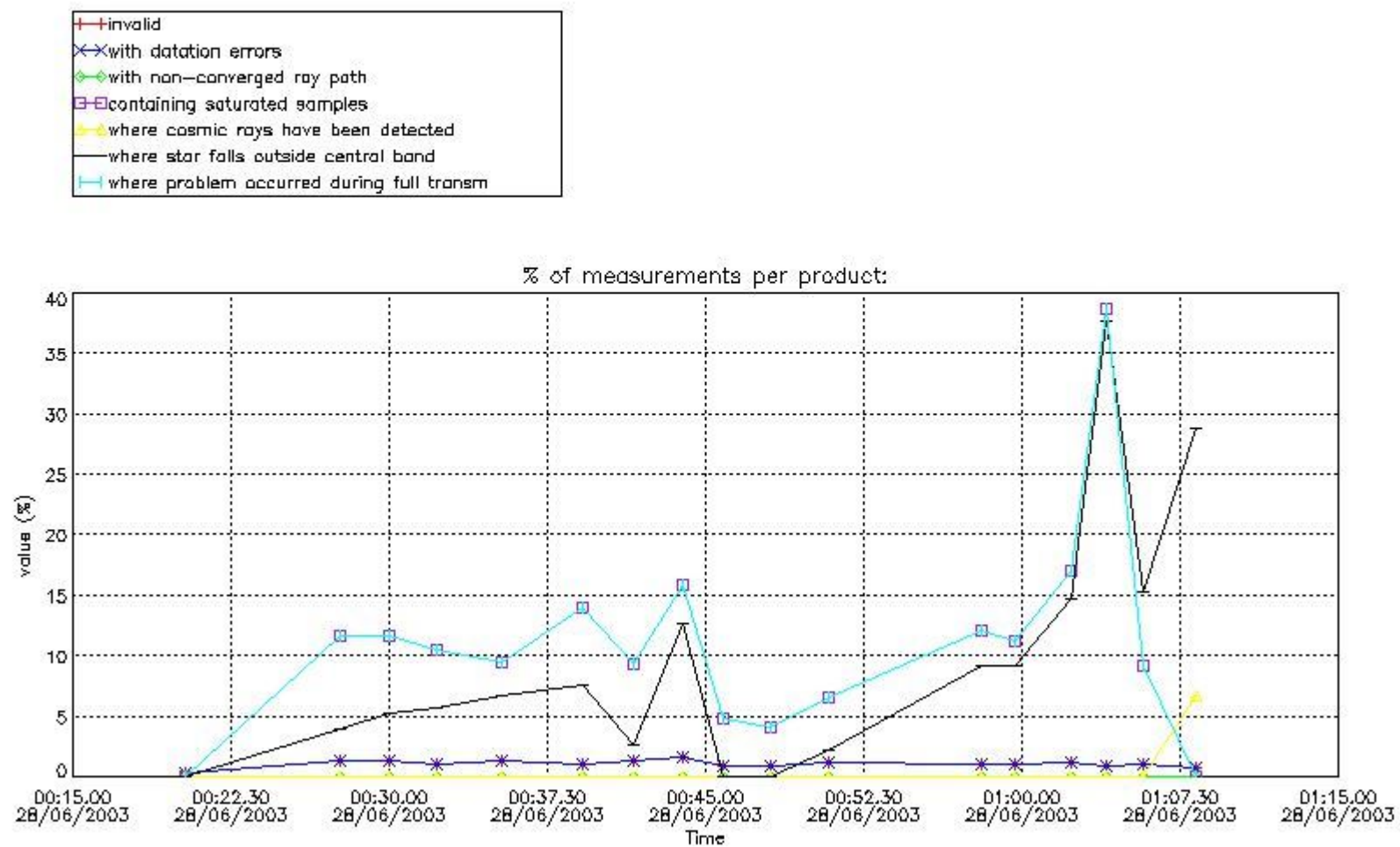
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



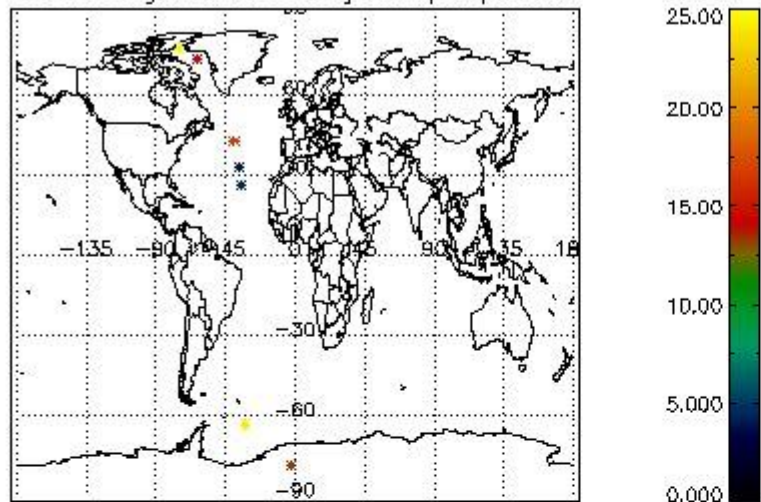
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



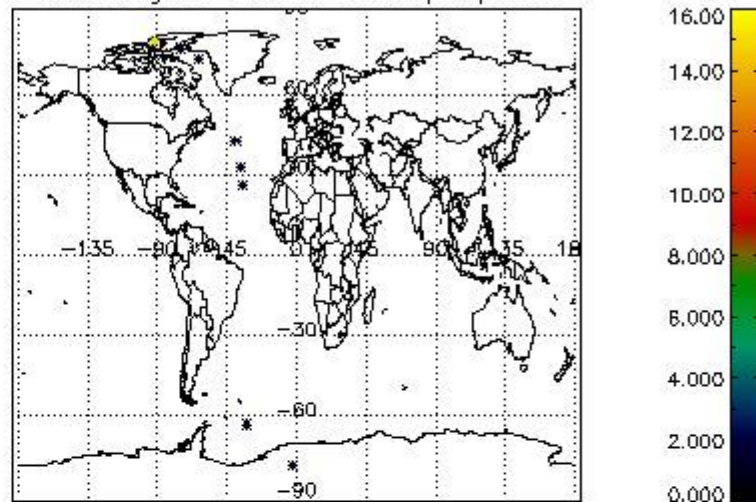
4.2 Plot quality information per product coming from level 1b processing (world map)

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

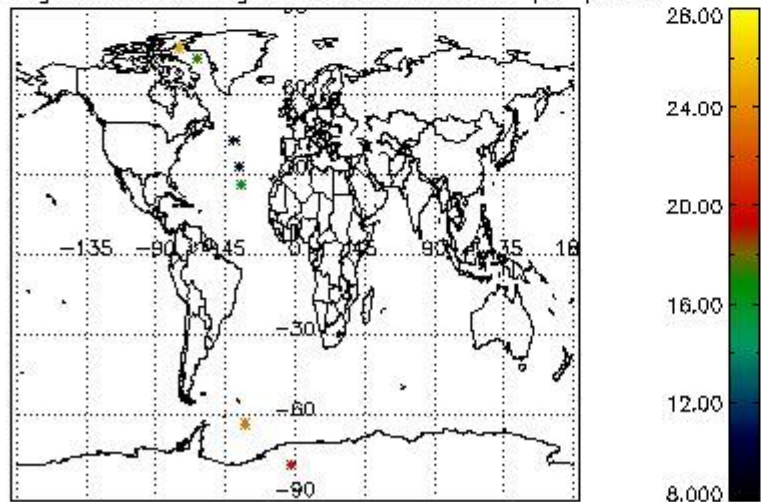
Percentage of cosmic ray hits per profile



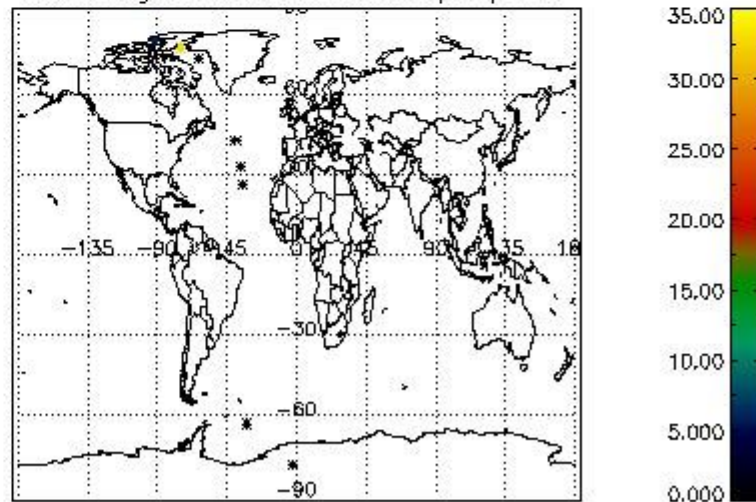
Percentage of datation errors per profile



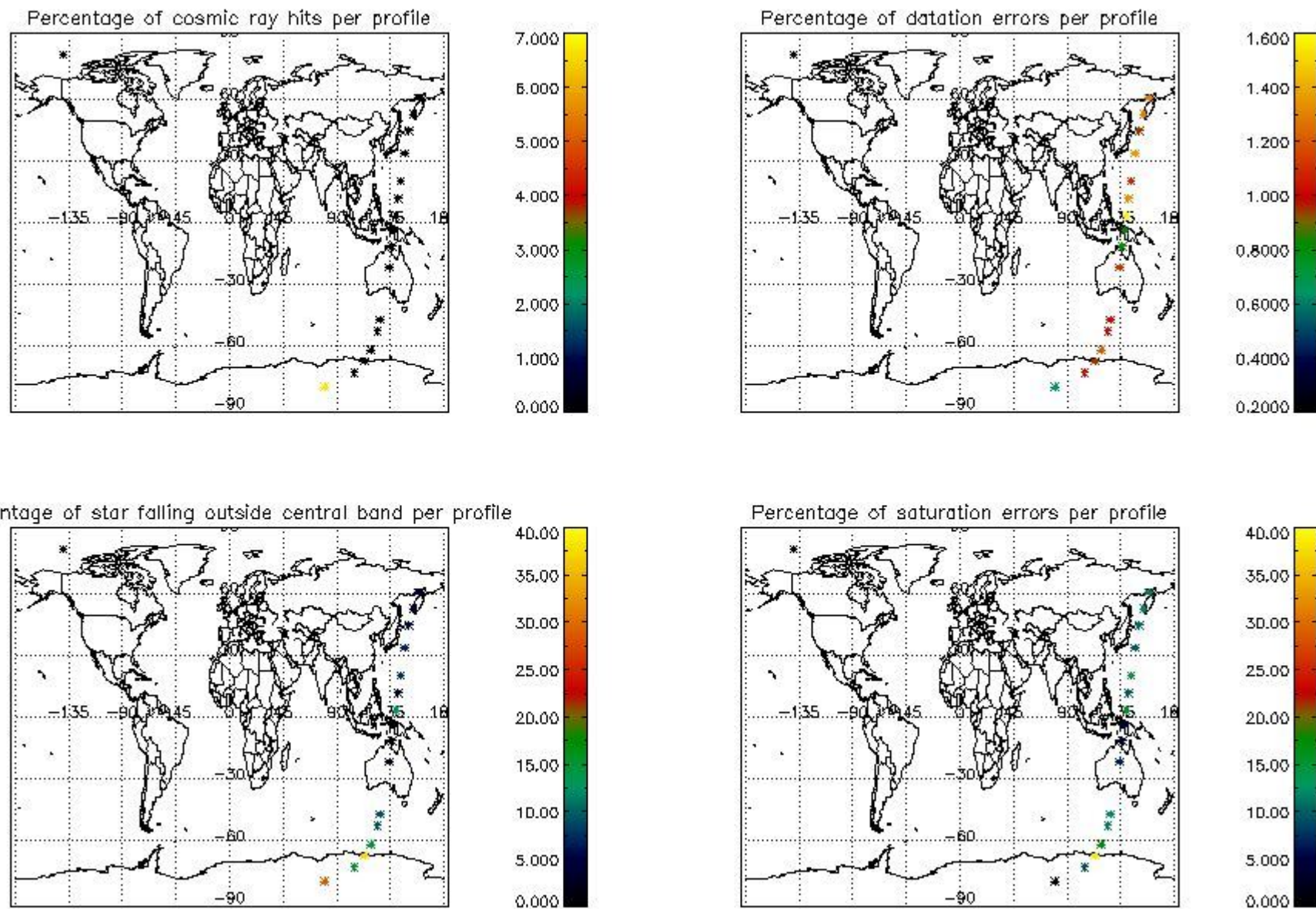
Percentage of star falling outside central band per profile



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

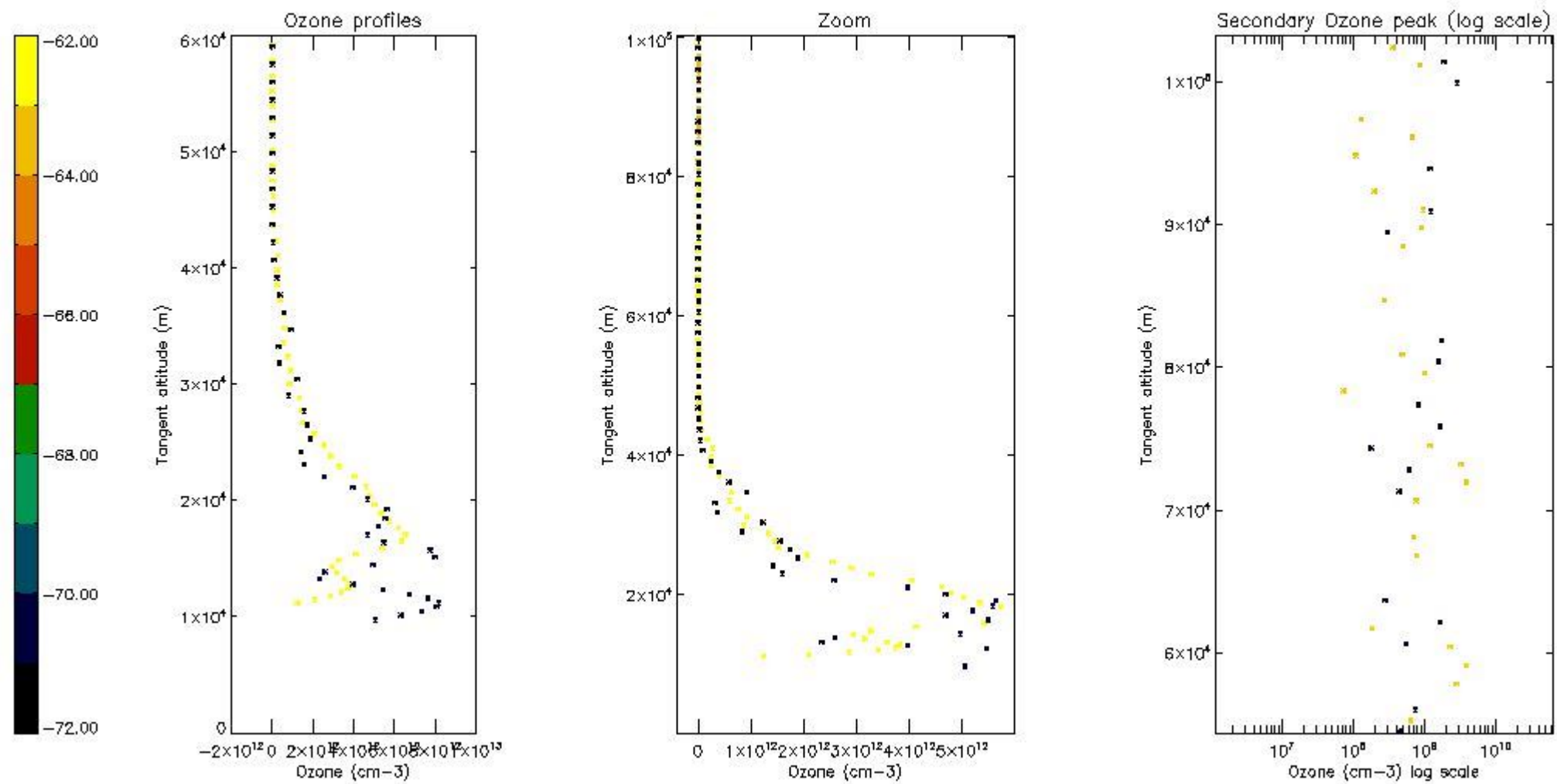
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	8
STD < 20	2

STD < 10	1
STD < 5	0

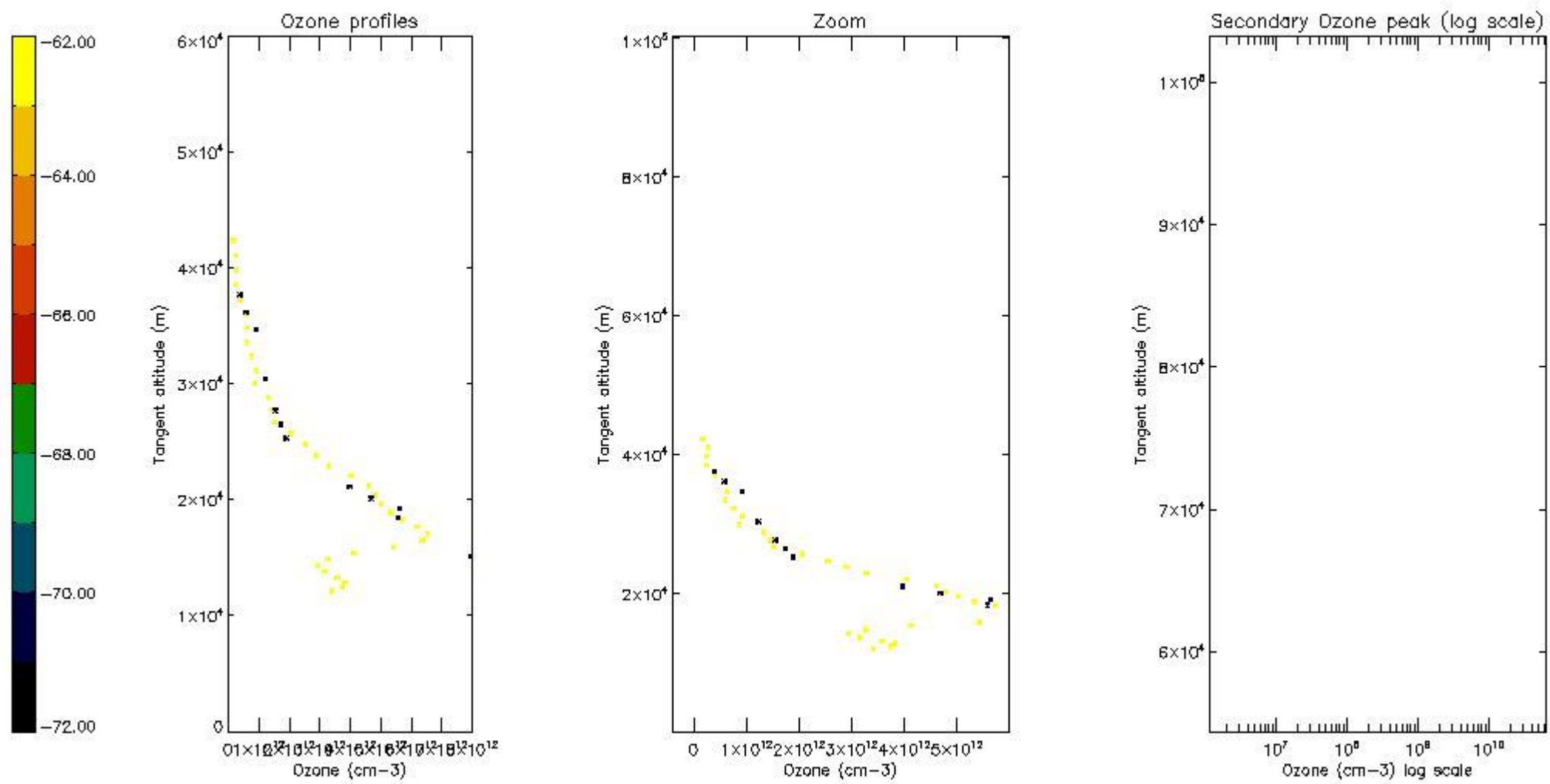
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



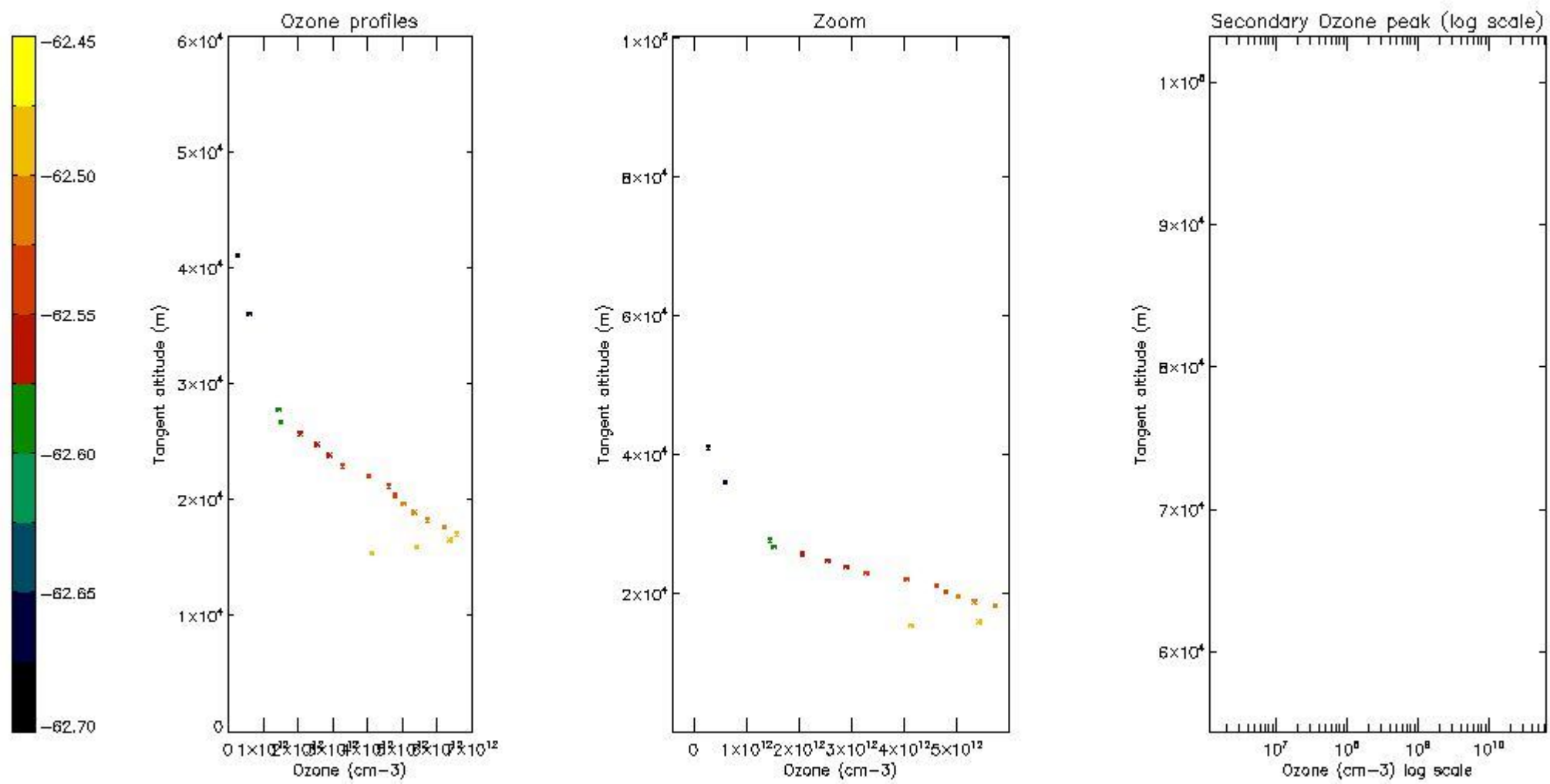
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



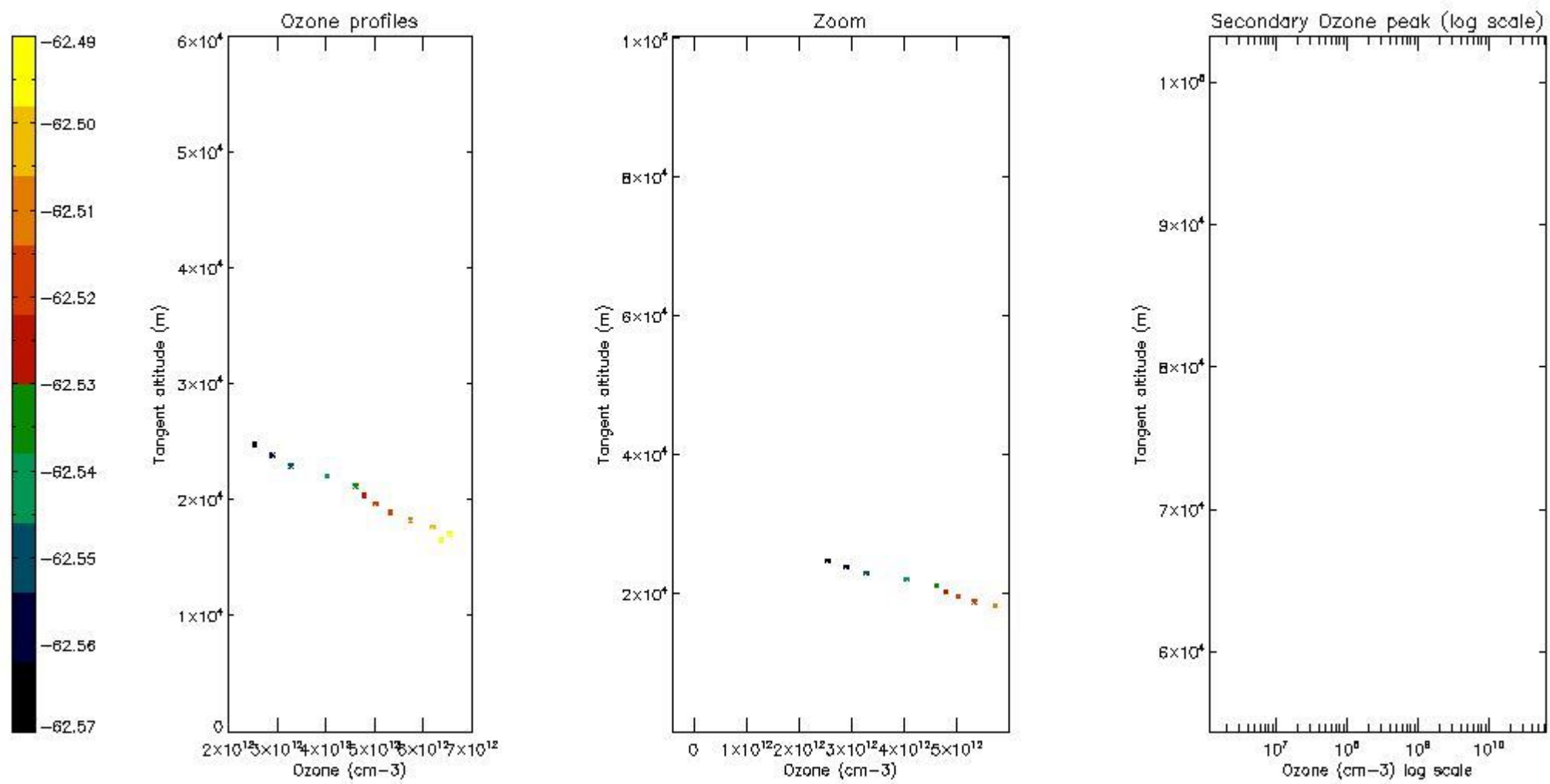
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



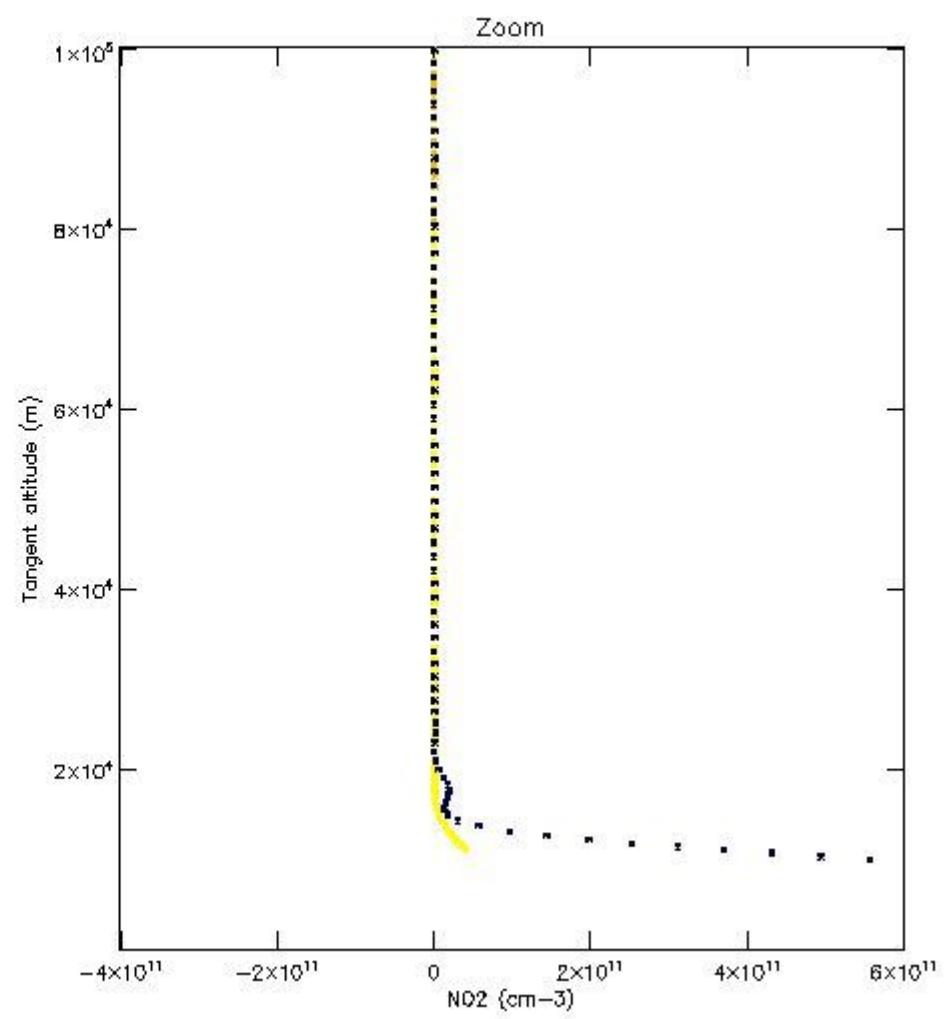
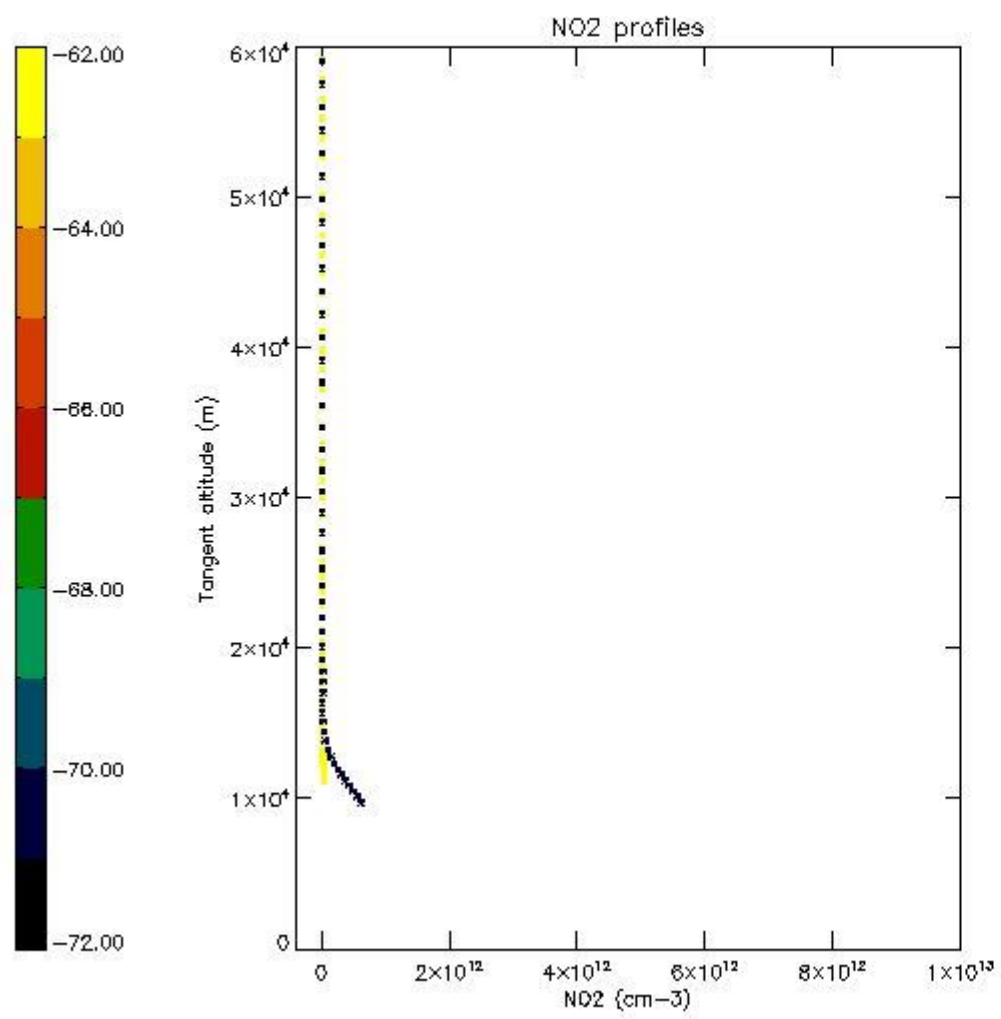
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



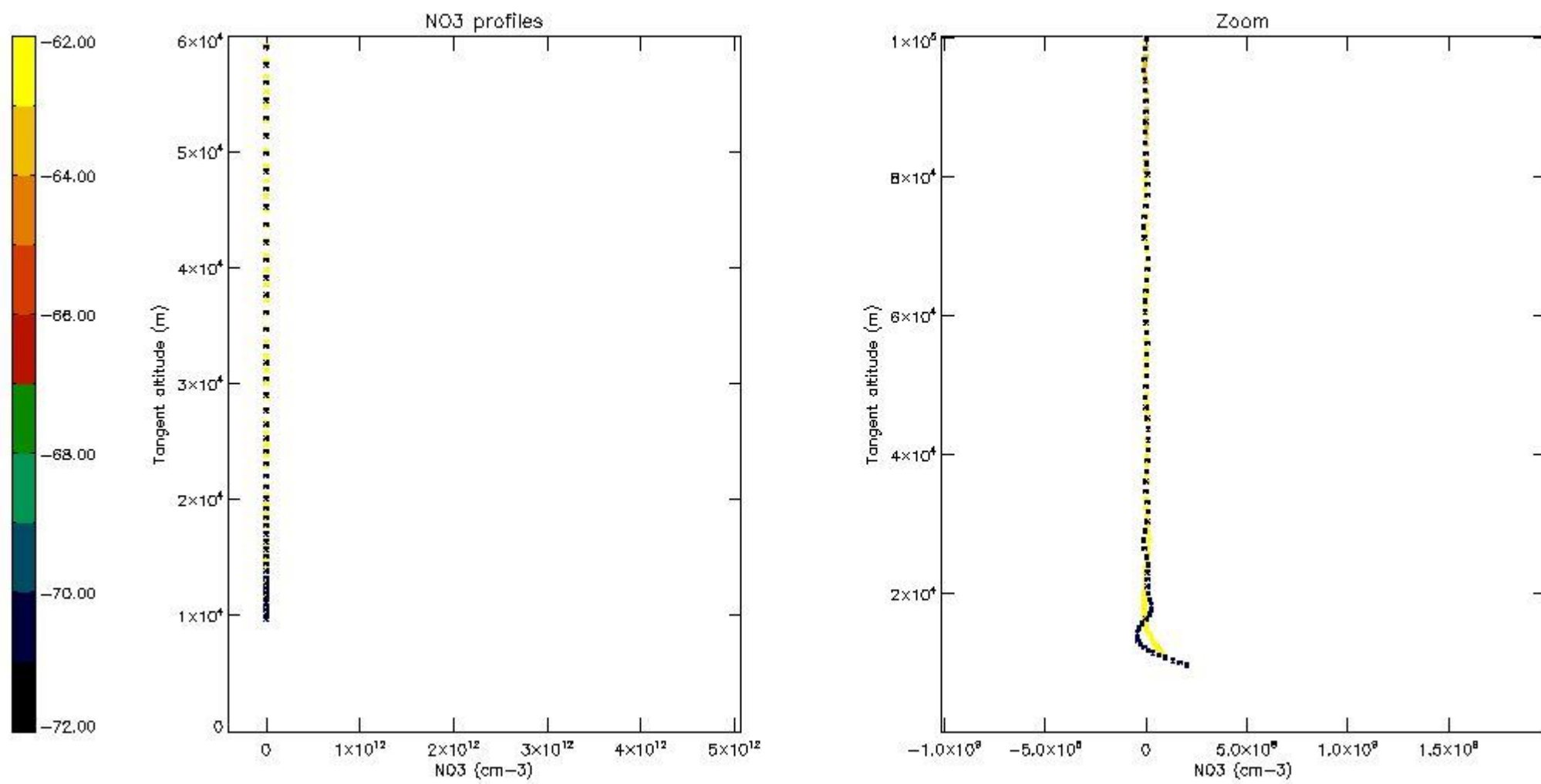
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



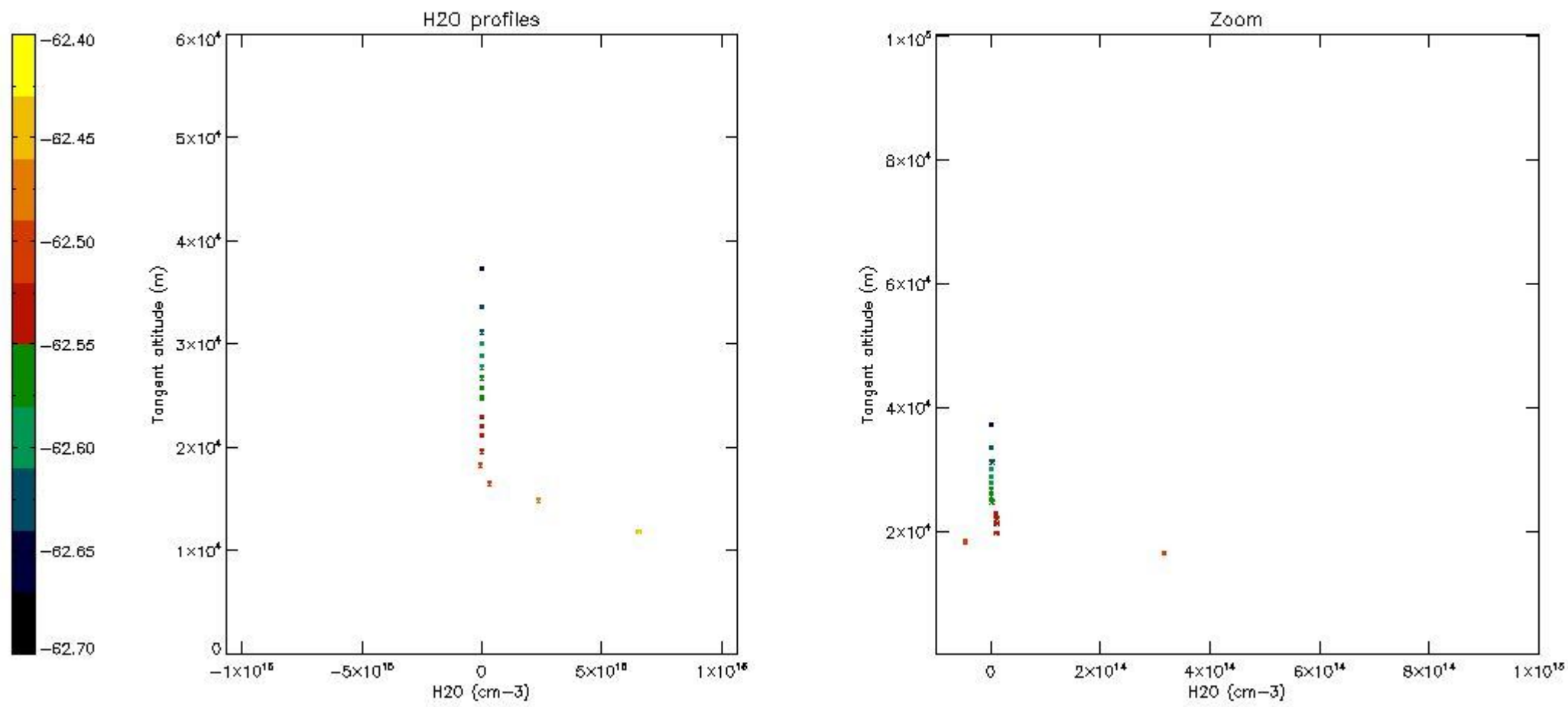
5.7 Plot NO3 profiles for all STD (dark without errors)

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_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	28-JUN-2003 00:01:52
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	28-JUN-2003 00:01:52
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	28-JUN-2003 00:01:52

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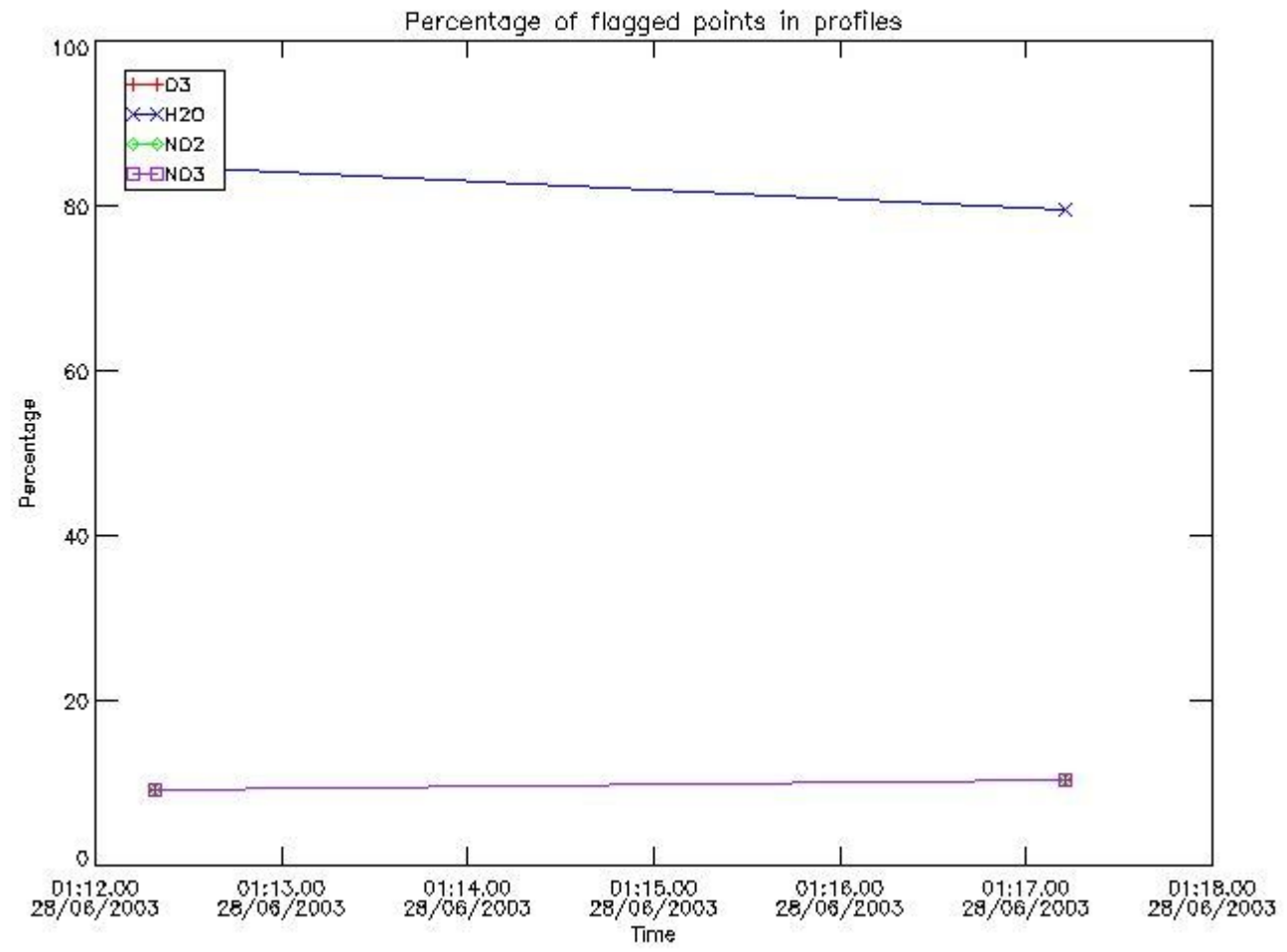
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9	GOM_NL__2PRFIN20030628_002959_000000392017_00360_06927_6397.N1	28-JUN-2003 00:29:59	Bright	38.500	59	55Alp Oph	2.0800	8900.0	77	6927	No
10	GOM_NL__2PRFIN20030628_003216_000000532017_00360_06927_6398.N1	28-JUN-2003 00:32:16	Bright	52.500	168	17Zet Aql	2.9860	11000.	105	6927	No
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19	GOM_NL__2PRFIN20030628_005942_000000492017_00360_06927_6407.N1	28-JUN-2003 00:59:42	Bright	49.000	68	18Alp Cas	2.2250	4500.0	98	6927	No
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21	GOM_NL__2PRFIN20030628_010358_000000532017_00360_06927_6409.N1	28-JUN-2003 01:03:58	Bright	53.000	175	39Del Per	3.0100	19400.	106	6927	No
22	GOM_NL__2PRFIN20030628_010544_000000492017_00360_06927_6410.N1	28-JUN-2003 01:05:44	Bright	49.000	73	57Gam1And	2.2600	13100.	98	6927	No
23	GOM_NL__2PRFIN20030628_010813_000000752017_00360_06927_6411.N1	28-JUN-2003 01:08:13	Twilight	74.500	53	43Bet And	2.0480	3300.0	149	6927	No
24	GOM_NL__2PRFIN20030628_011219_000000562017_00360_06927_6412.N1	28-JUN-2003 01:12:19	Dark	56.000	50	13Alp Ari	2.0070	4250.0	112	6927	No
25	GOM_NL__2PRFIN20030628_011712_000000502017_00360_06927_6413.N1	28-JUN-2003 01:17:12	Dark	49.500	94	92Alp Cet	2.5260	3100.0	99	6927	No

3. Quality information per product

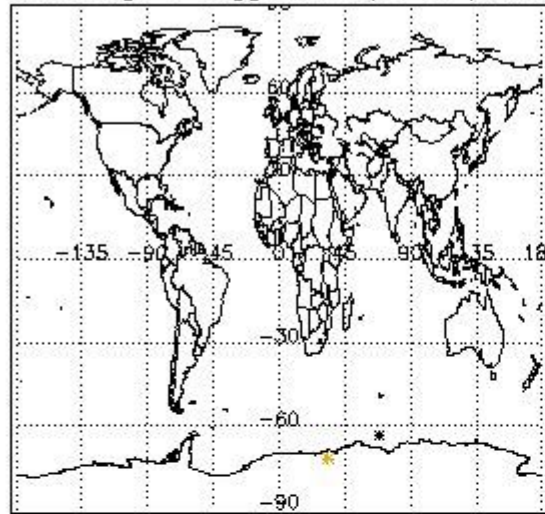
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

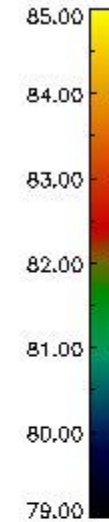
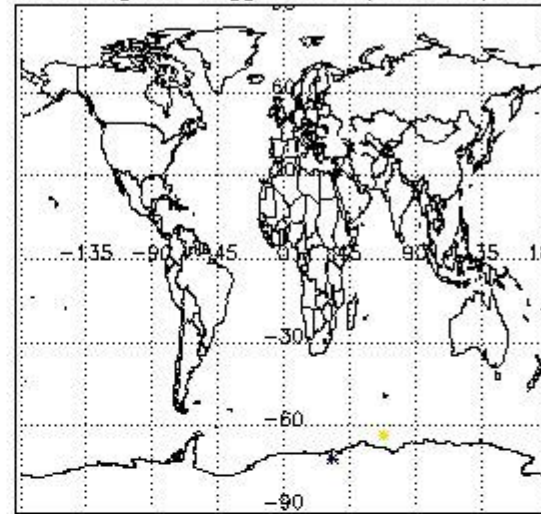


3.2 Plot quality information per product (world map)

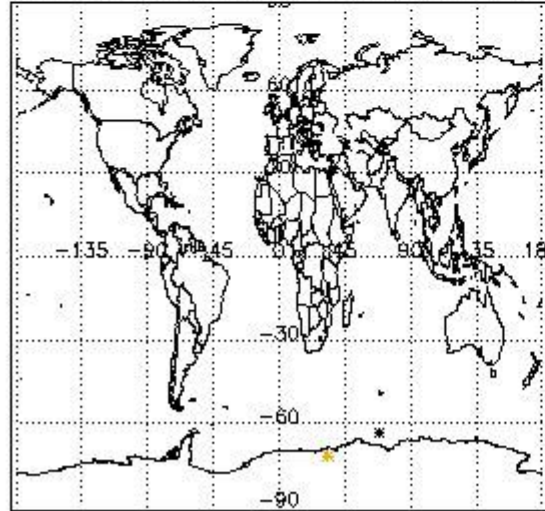
Percentage of flagged data per O3 profile



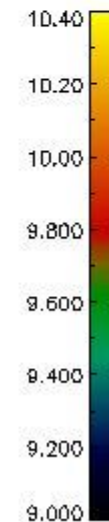
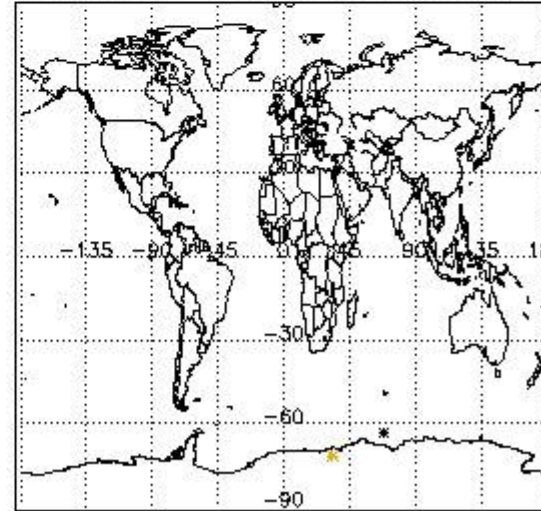
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

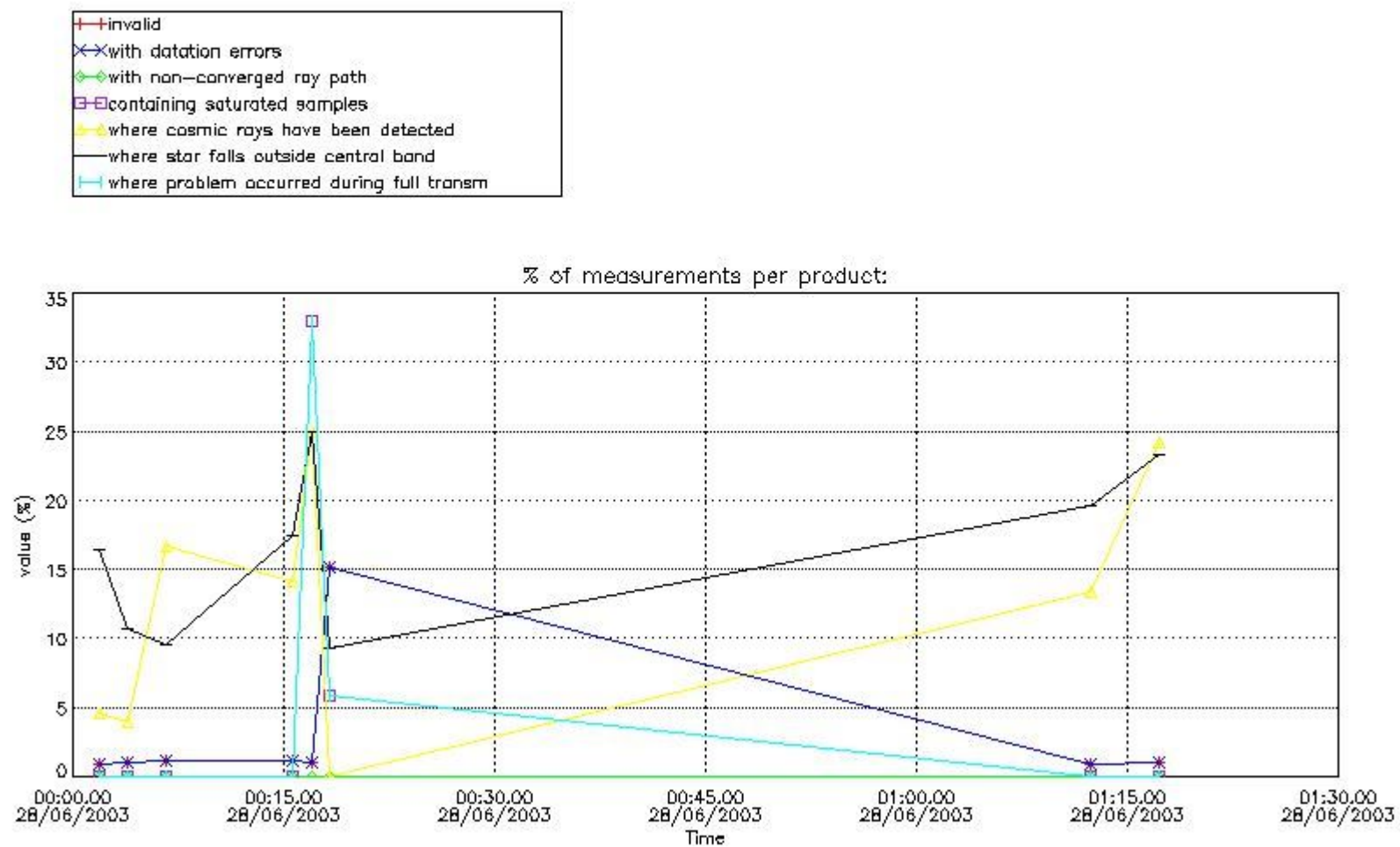


4. Level 1 quality information per product

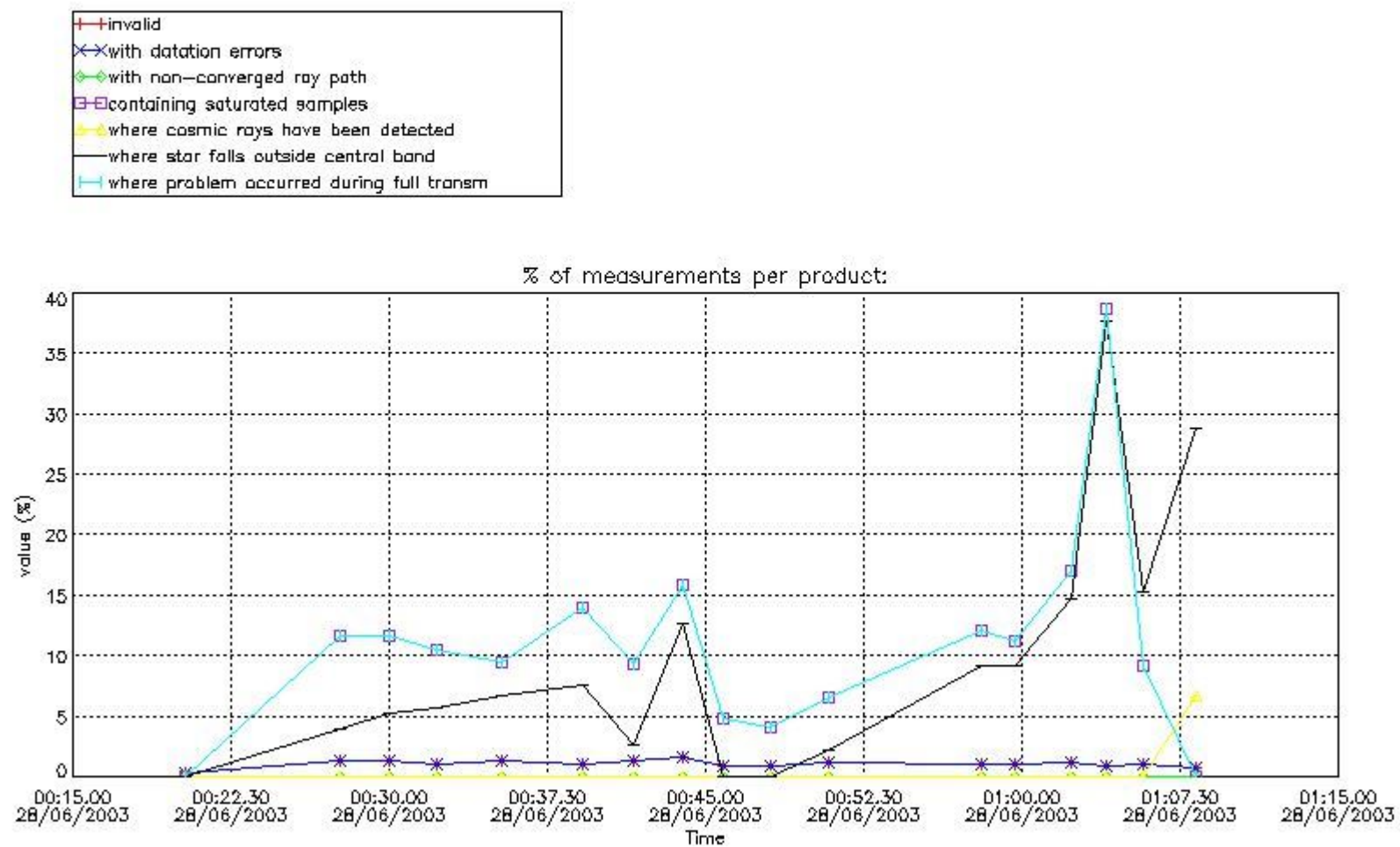
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



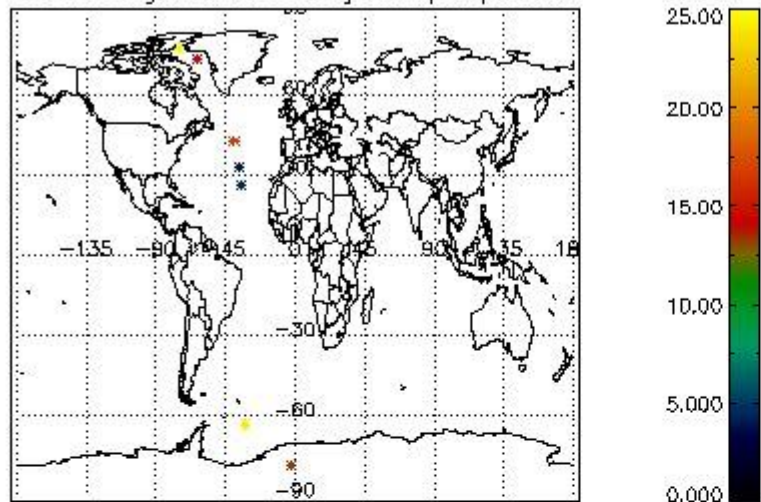
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



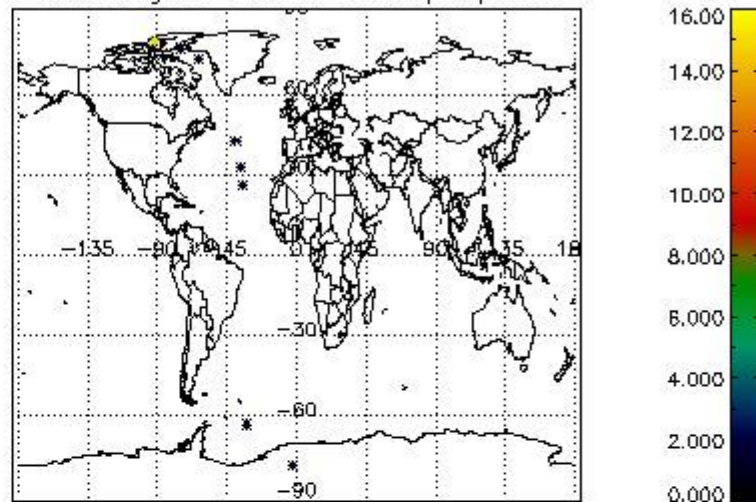
4.2 Plot quality information per product coming from level 1b processing (world map)

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

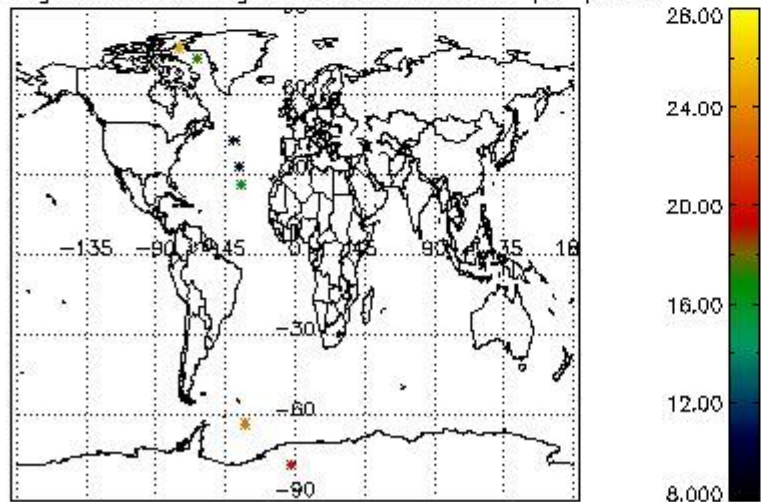
Percentage of cosmic ray hits per profile



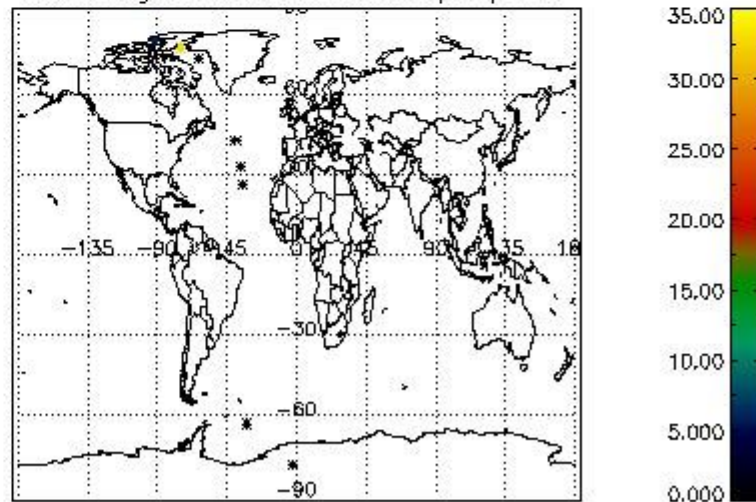
Percentage of datation errors per profile



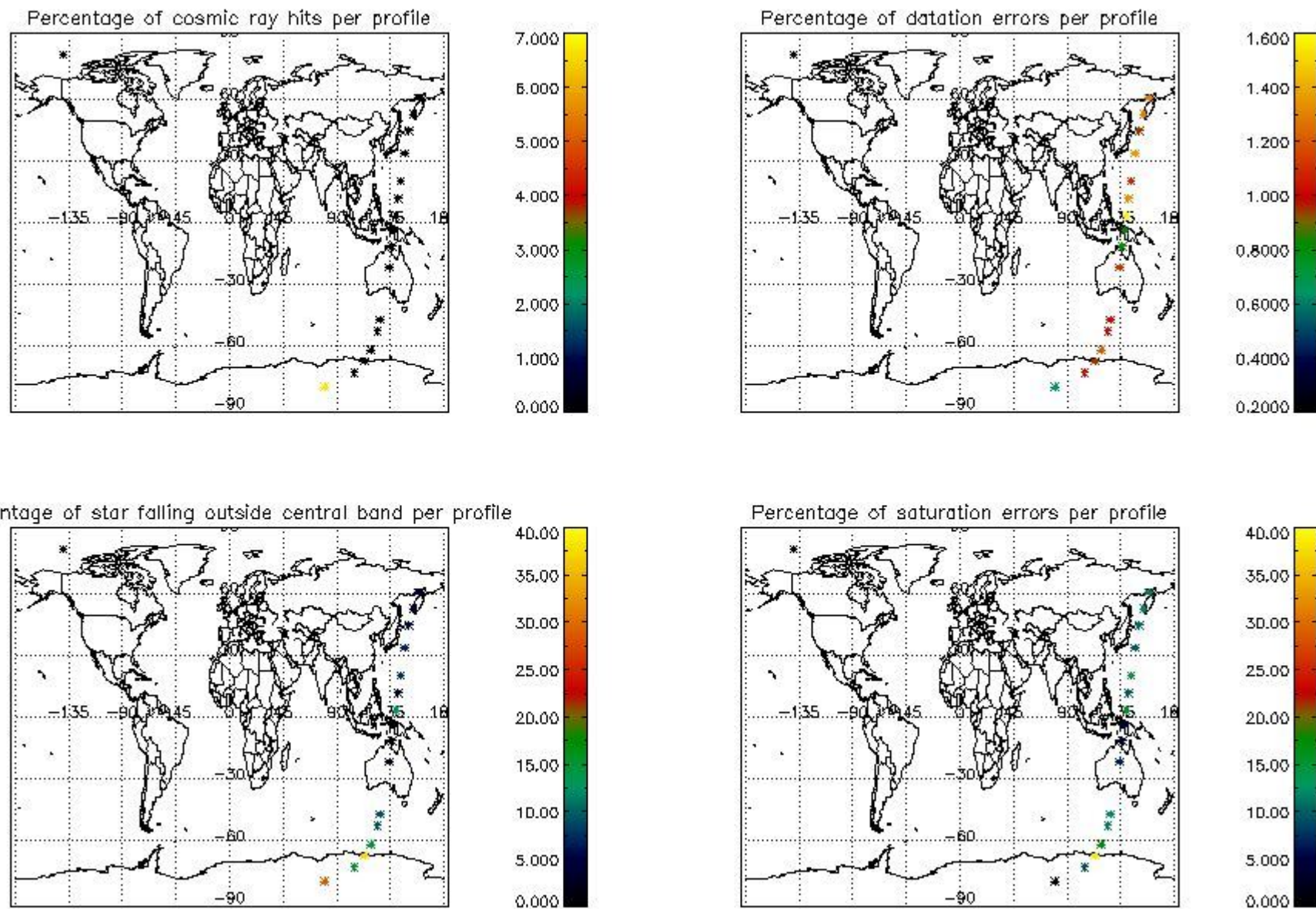
Percentage of star falling outside central band per profile



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

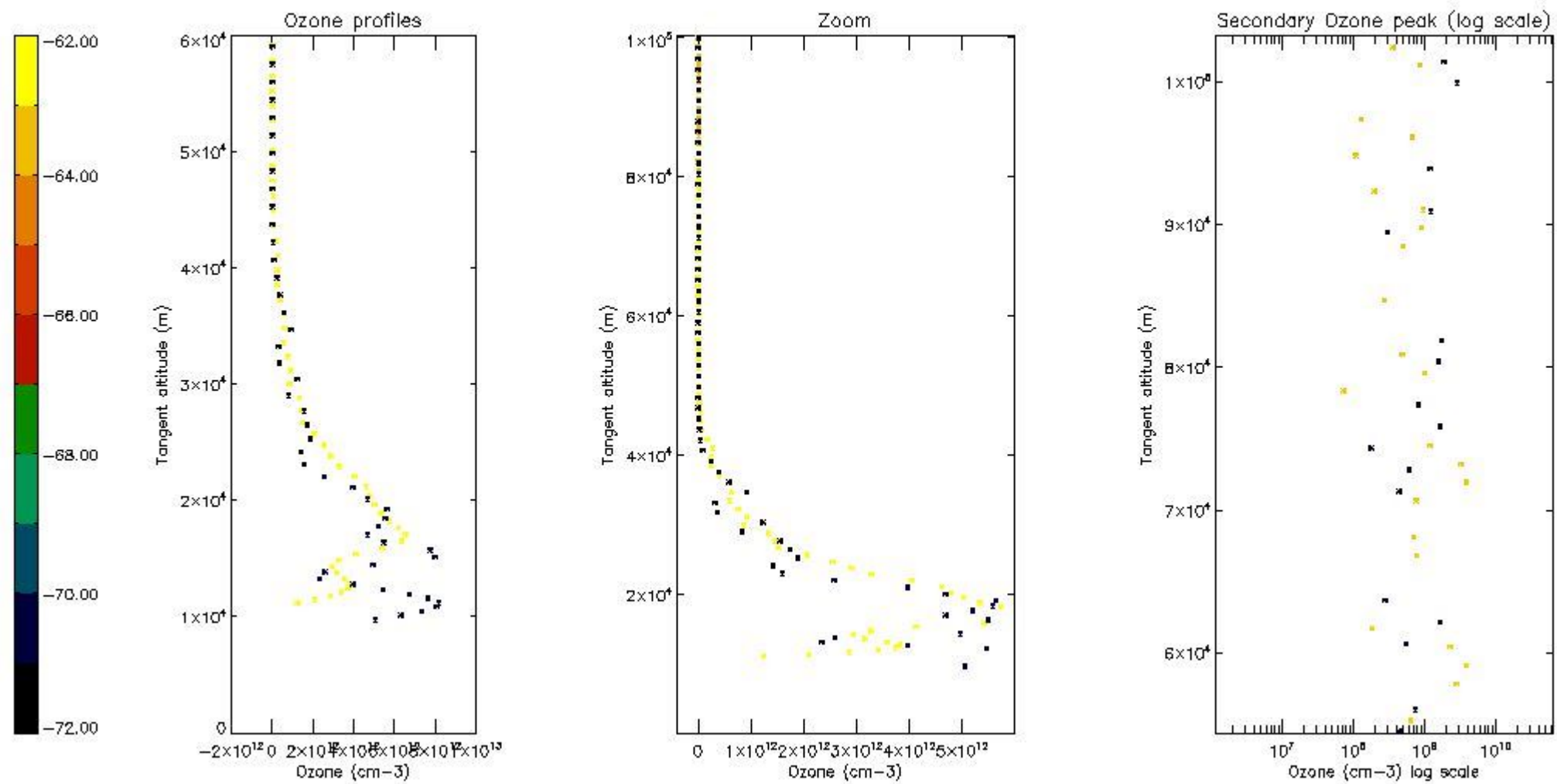
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	8
STD < 20	2

STD < 10	1
STD < 5	0

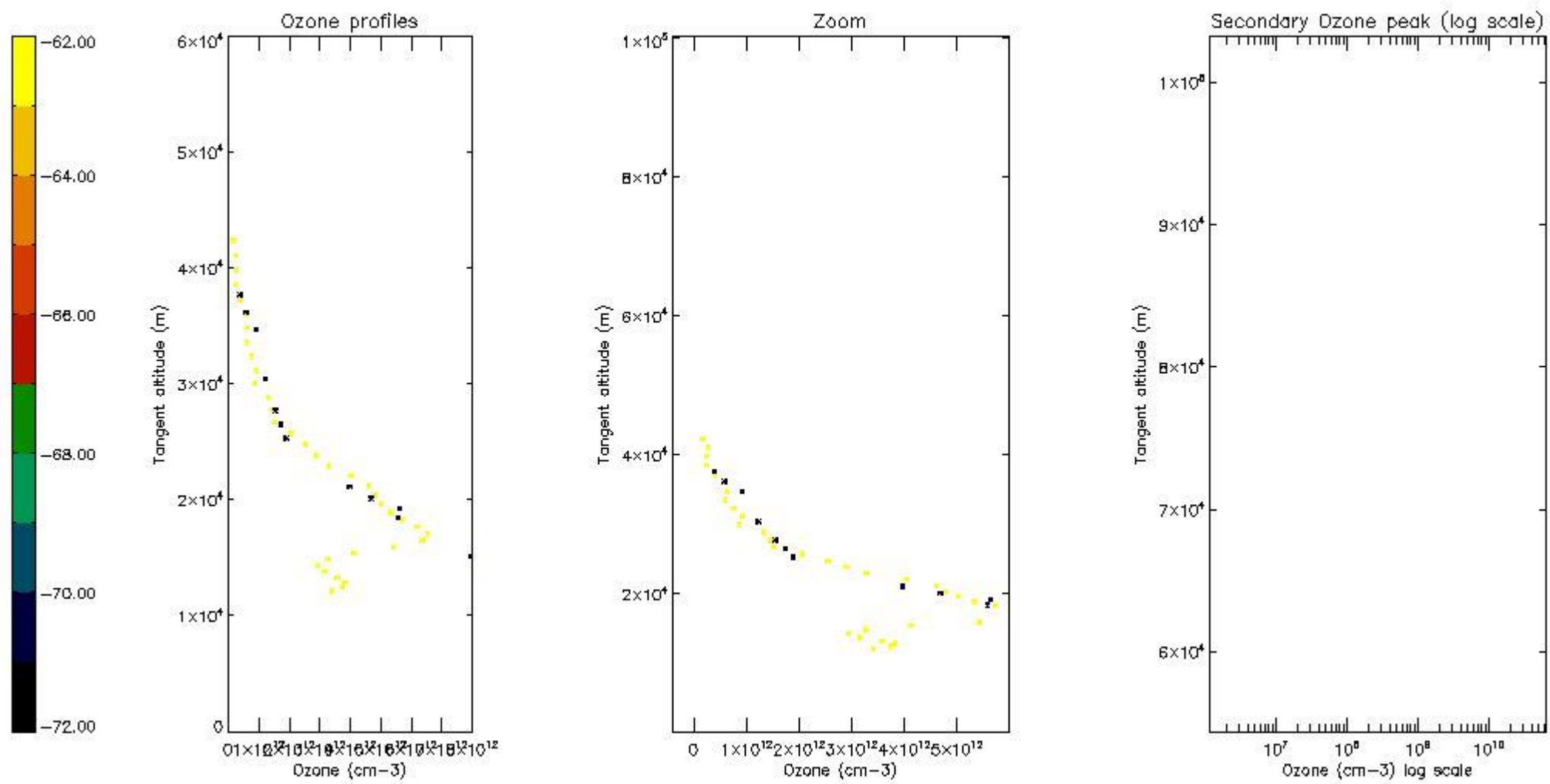
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



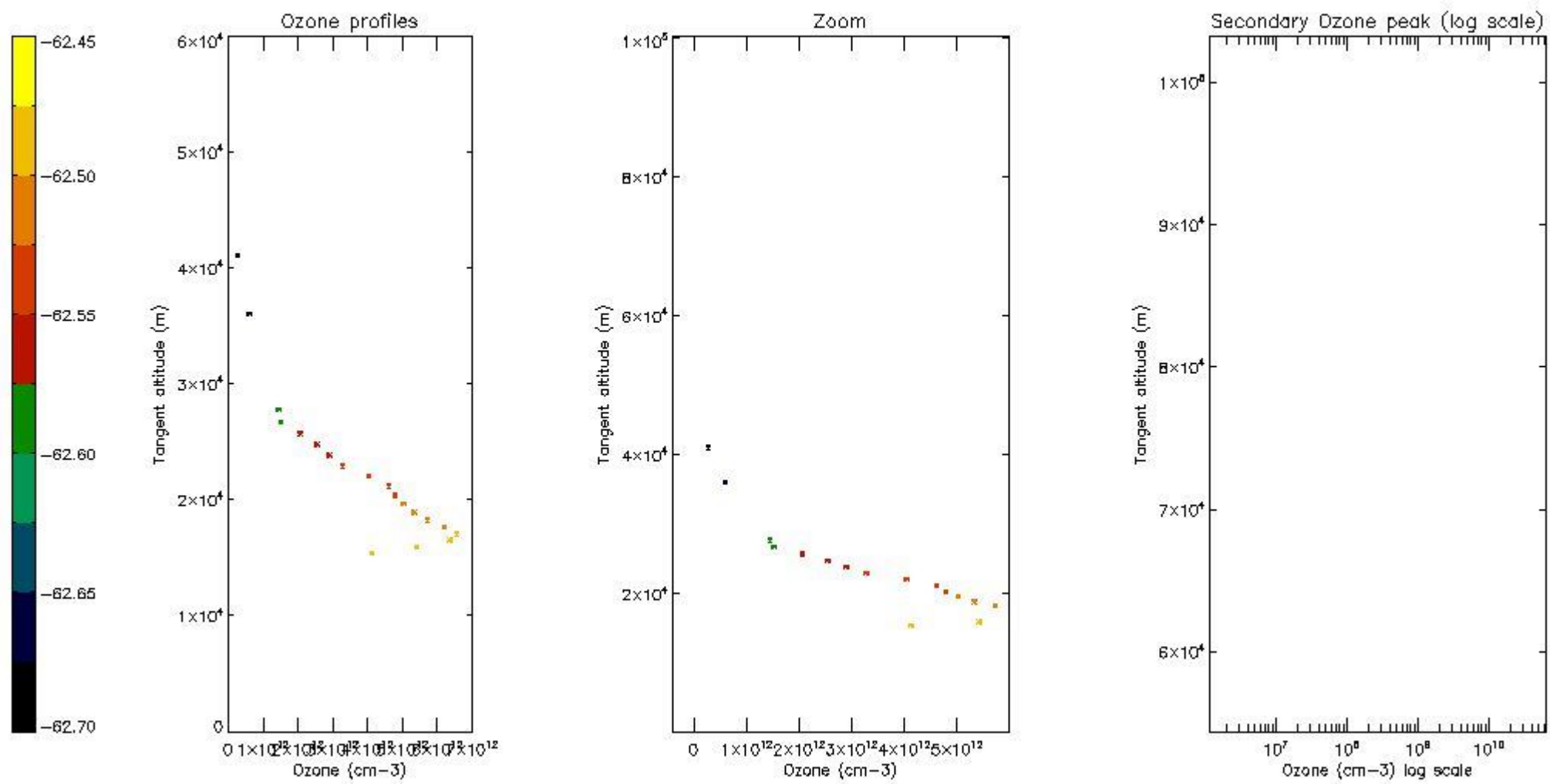
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



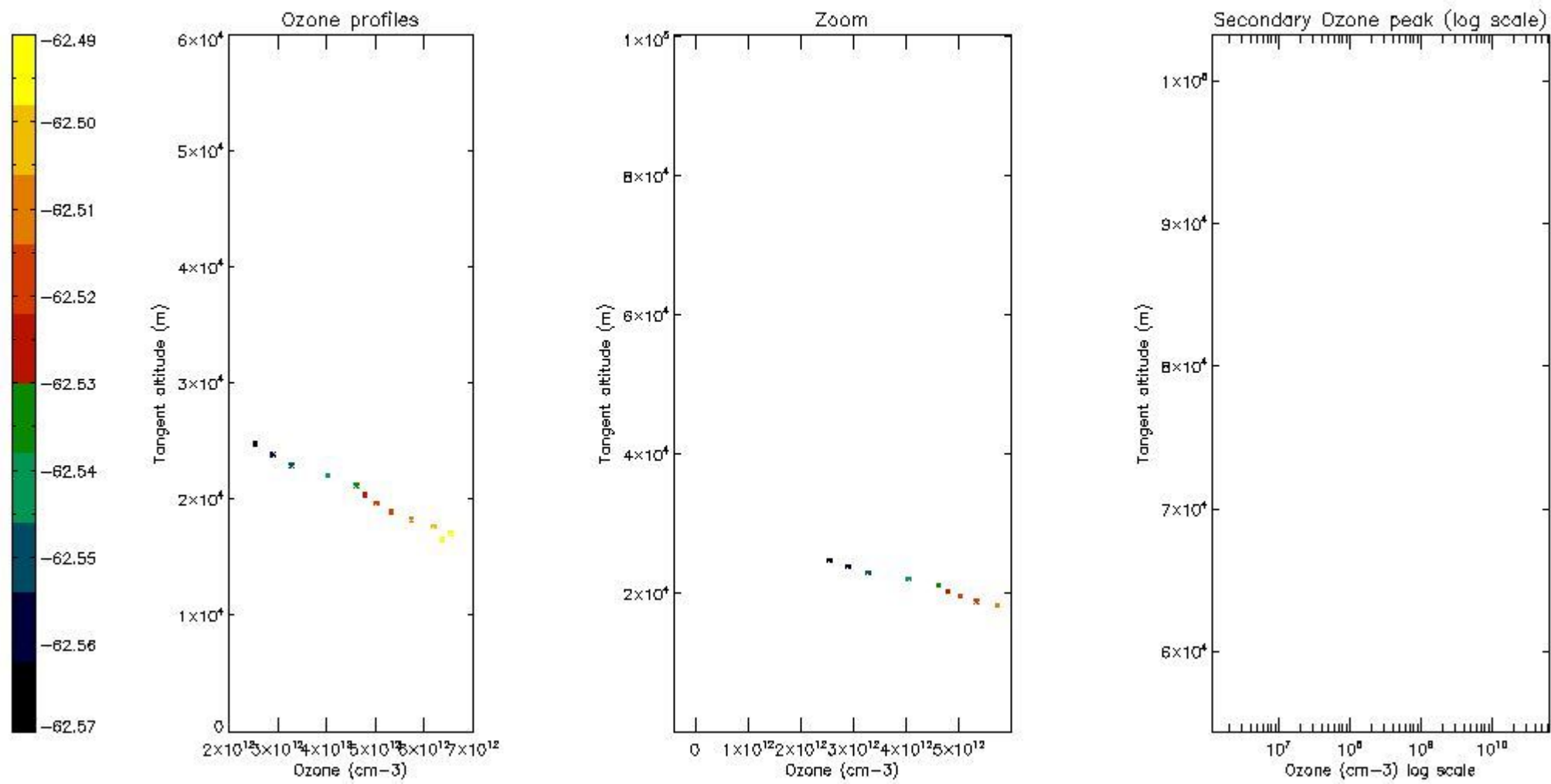
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



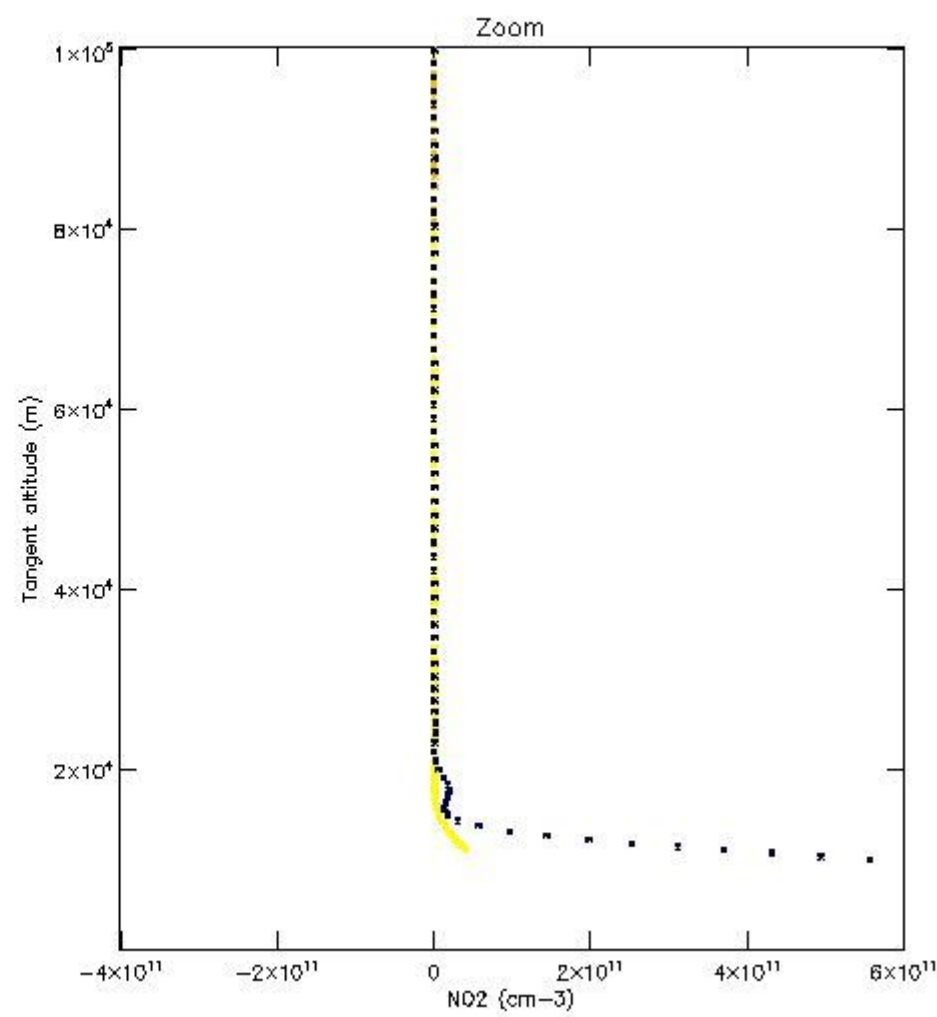
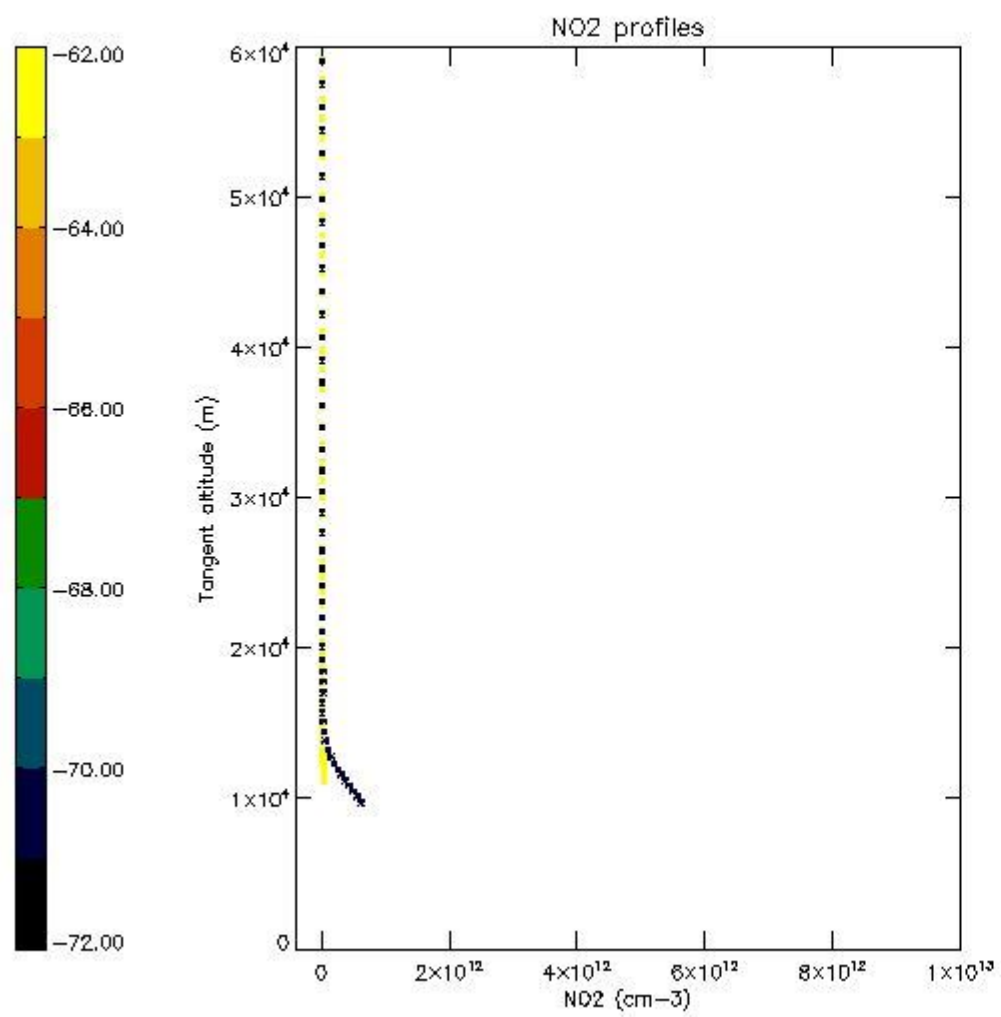
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



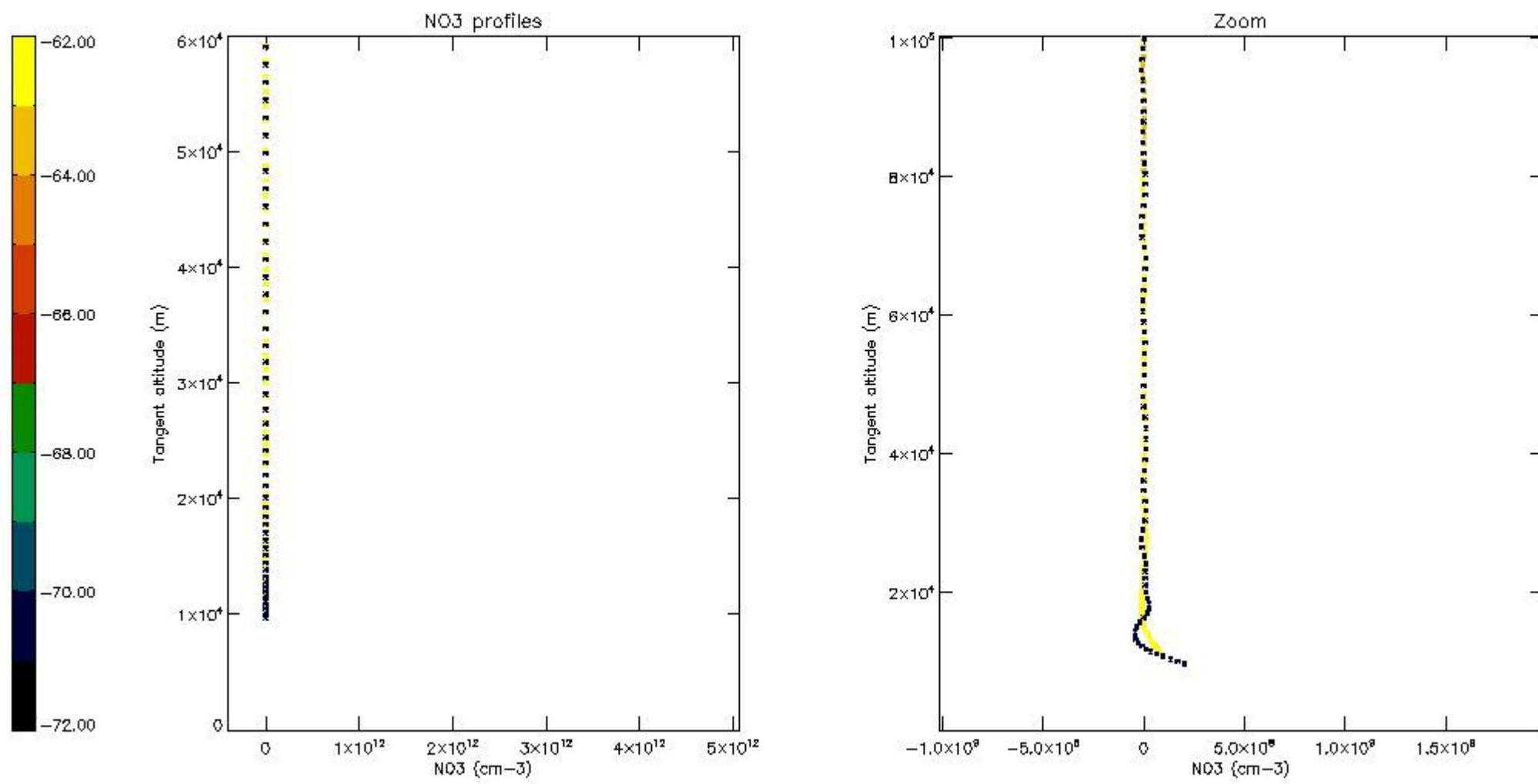
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



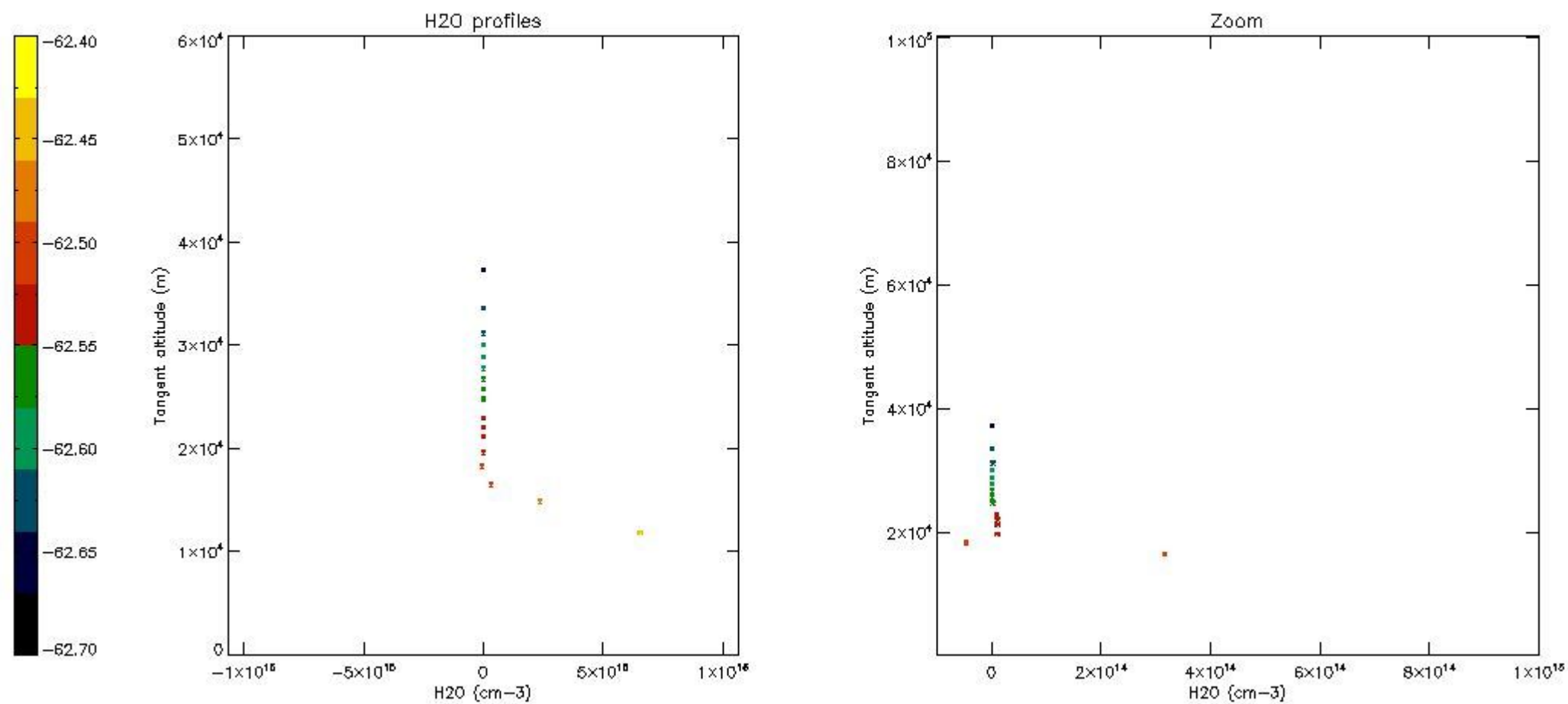
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

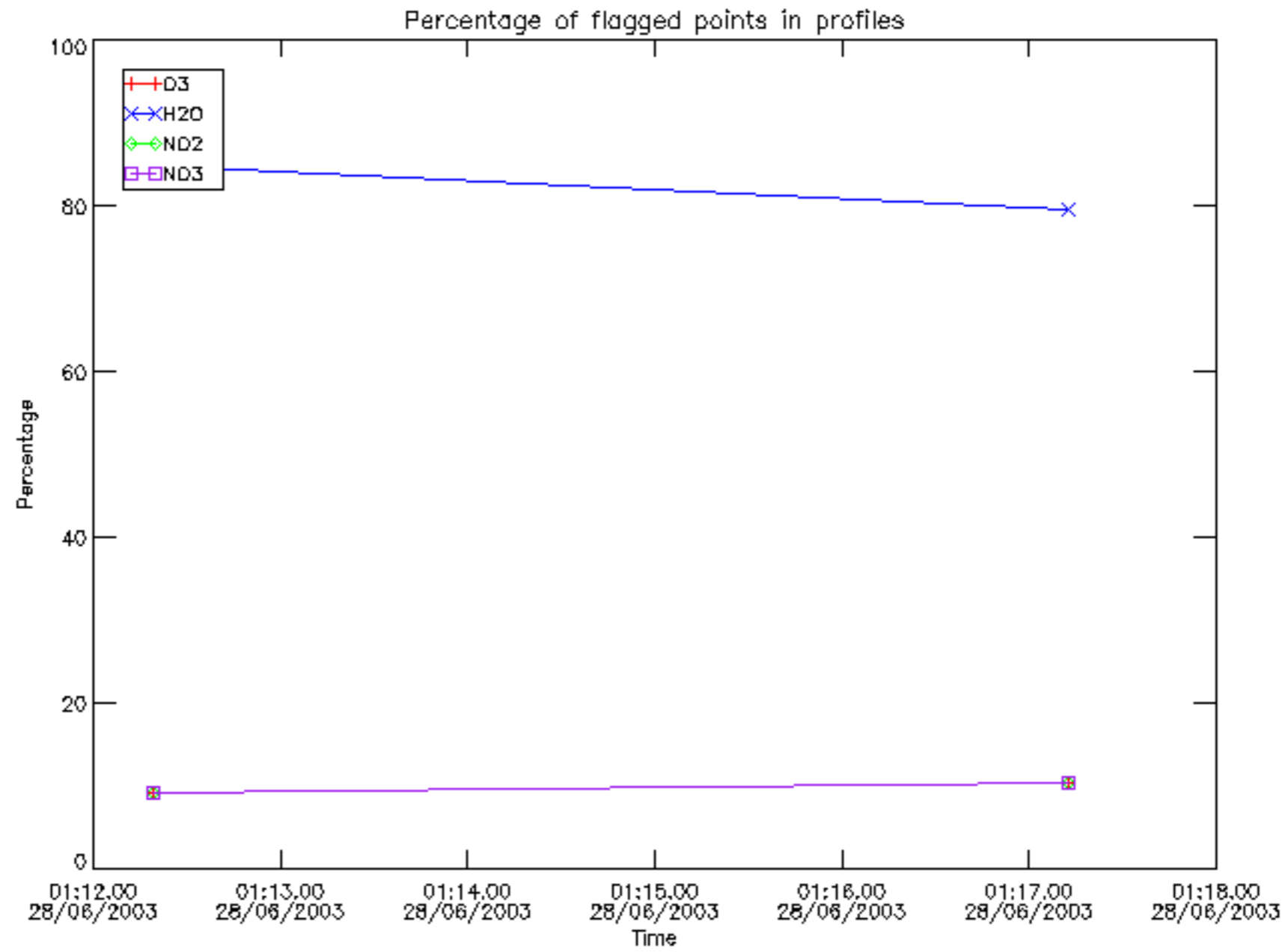
The colorbar represents the latitude.



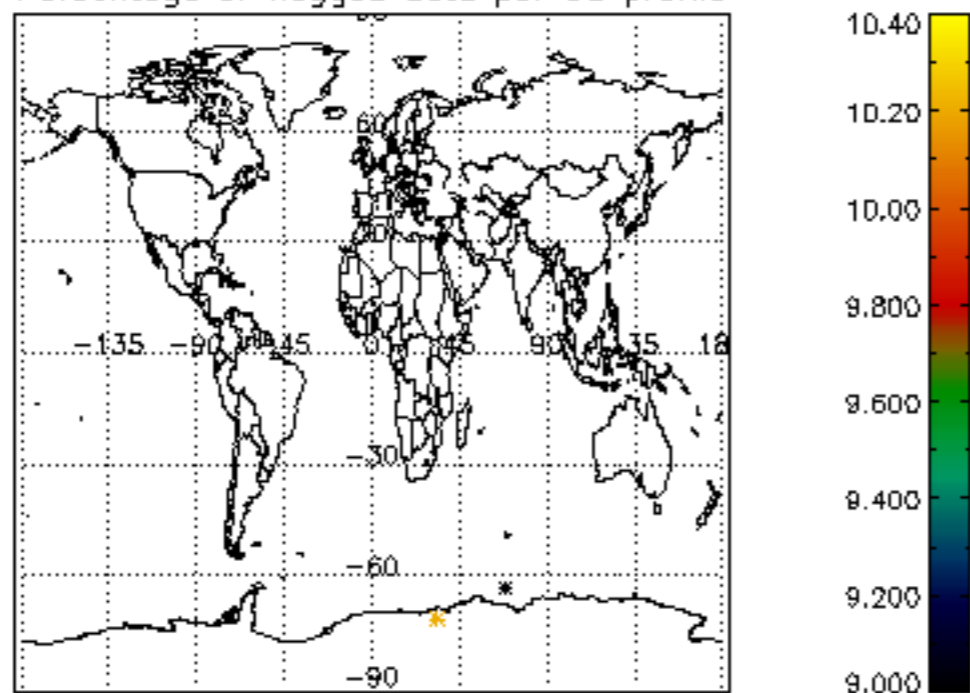
6. Auxiliary Data Files used for the production reported in section 2

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.

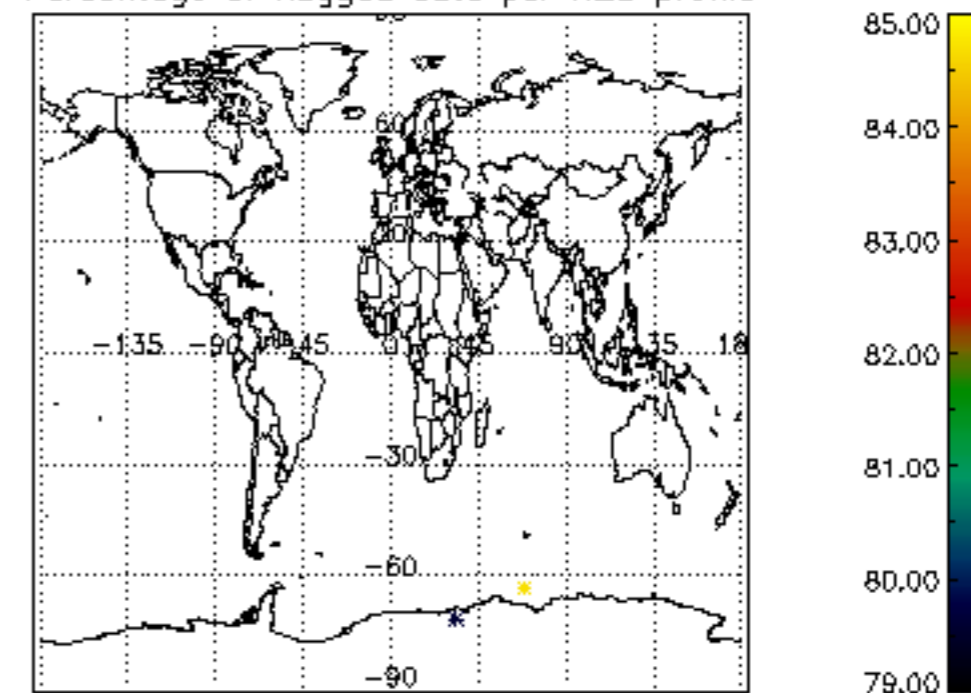
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	28-JUN-2003 00:01:52
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	28-JUN-2003 00:01:52
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	28-JUN-2003 00:01:52



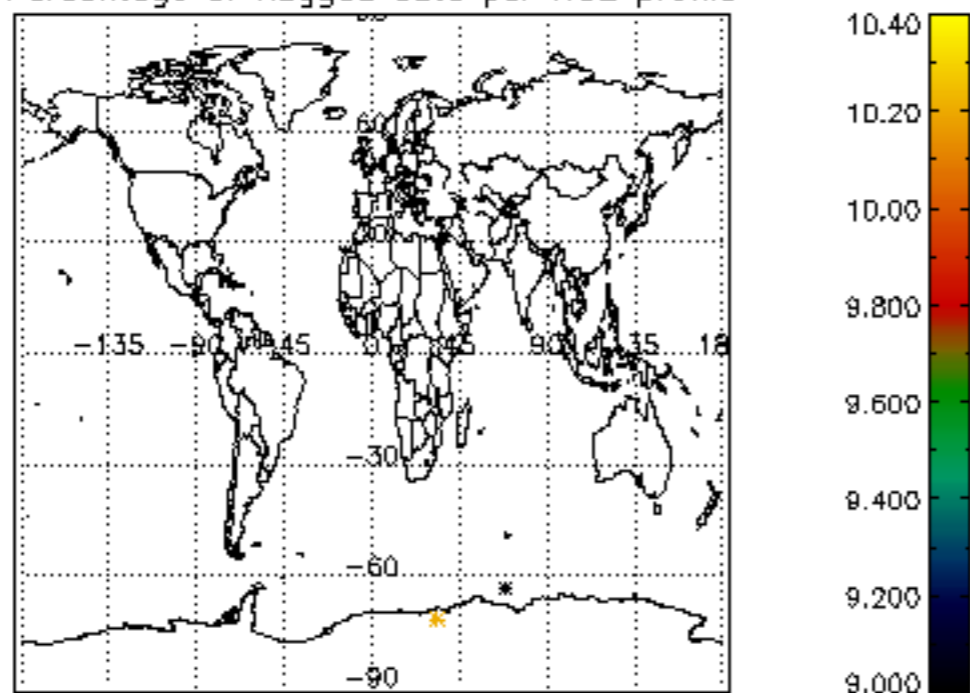
Percentage of flagged data per D3 profile



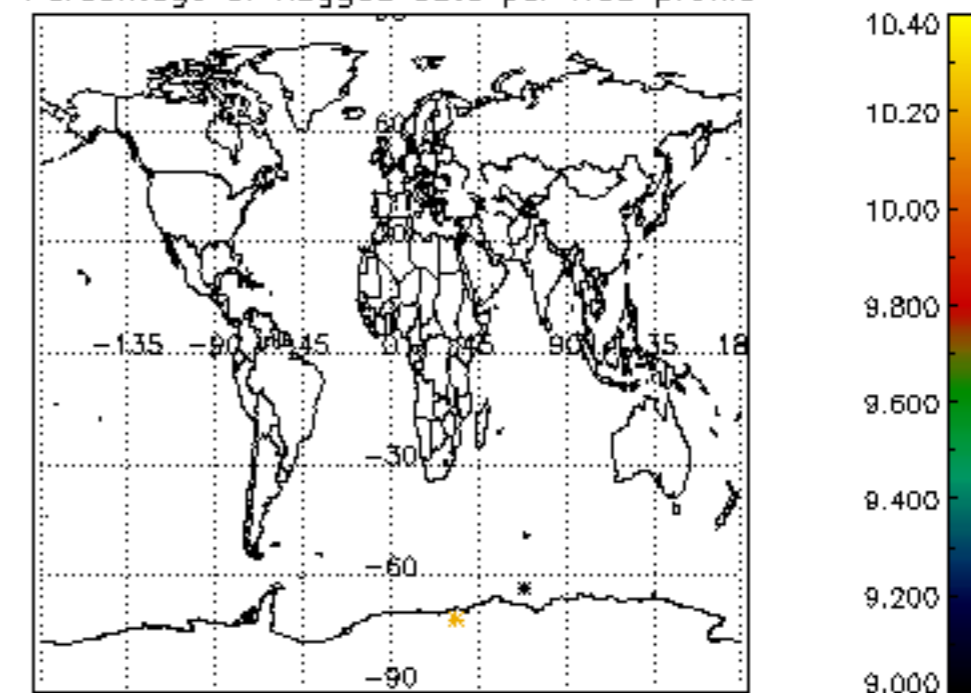
Percentage of flagged data per H2O profile

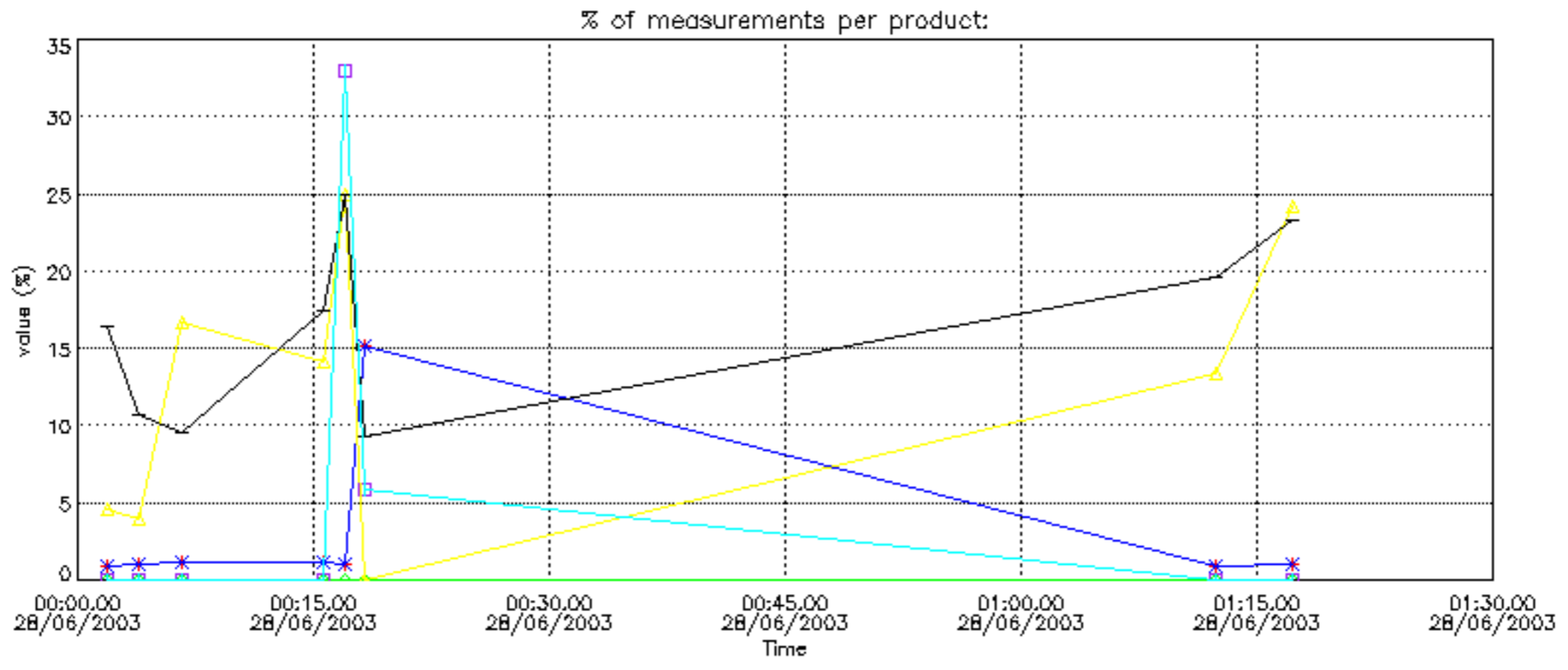


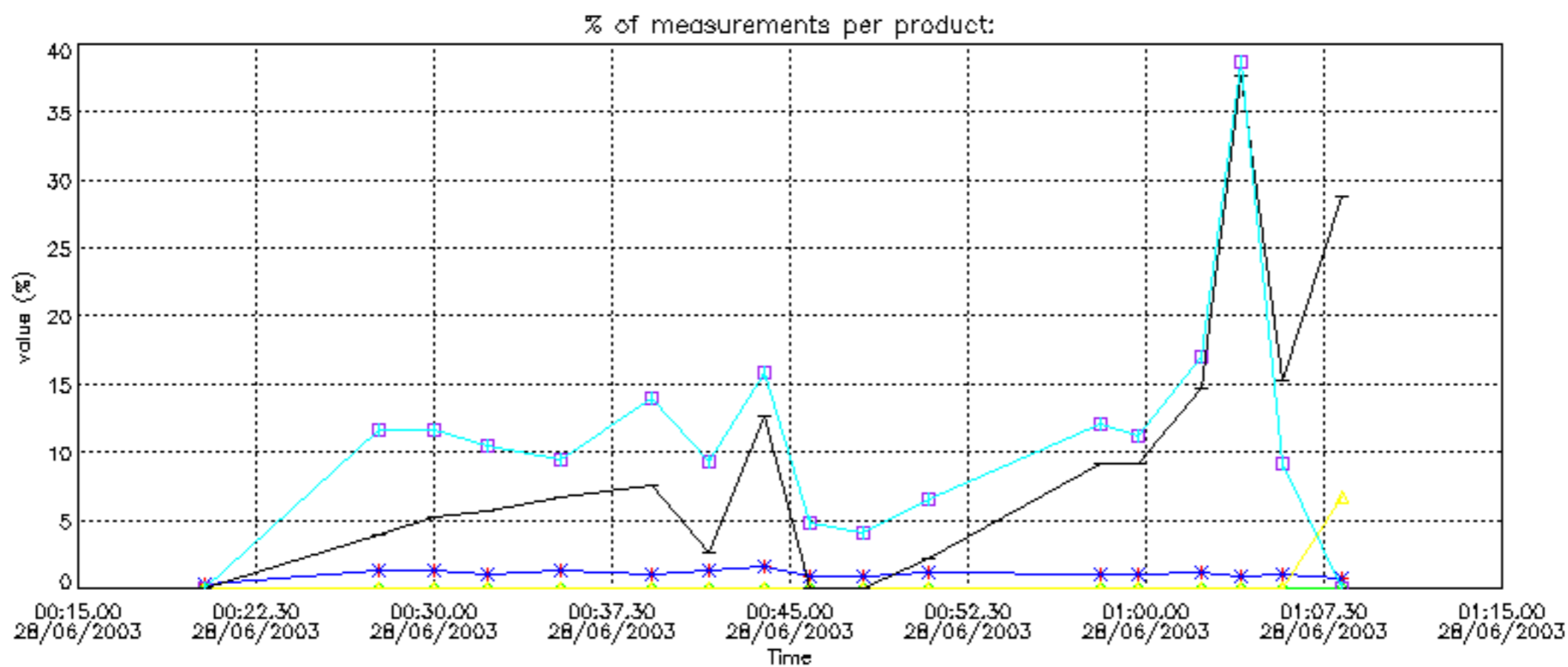
Percentage of flagged data per NO2 profile



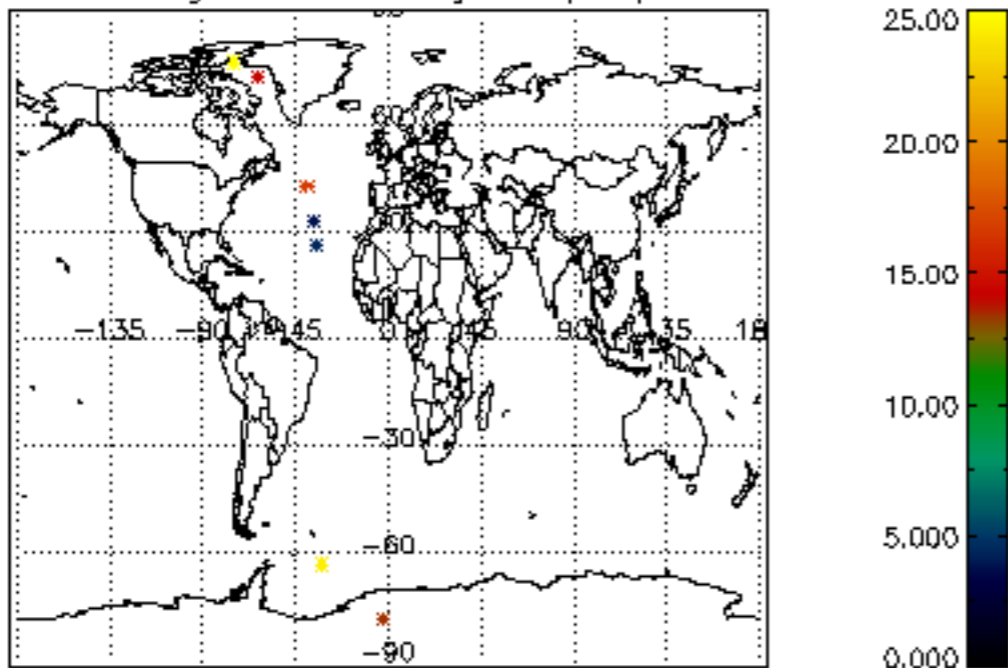
Percentage of flagged data per NO3 profile



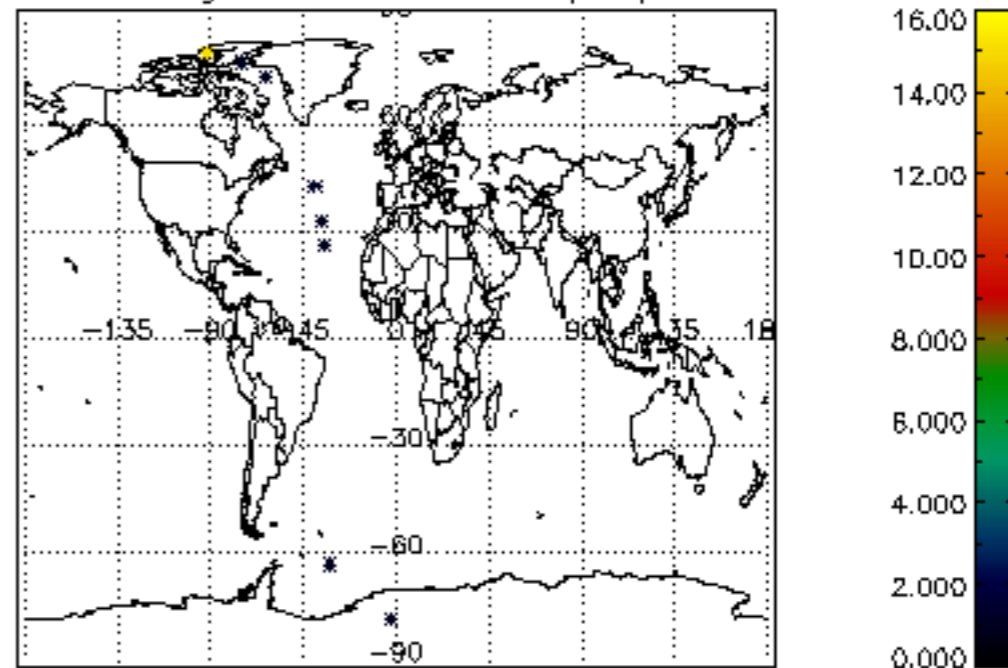




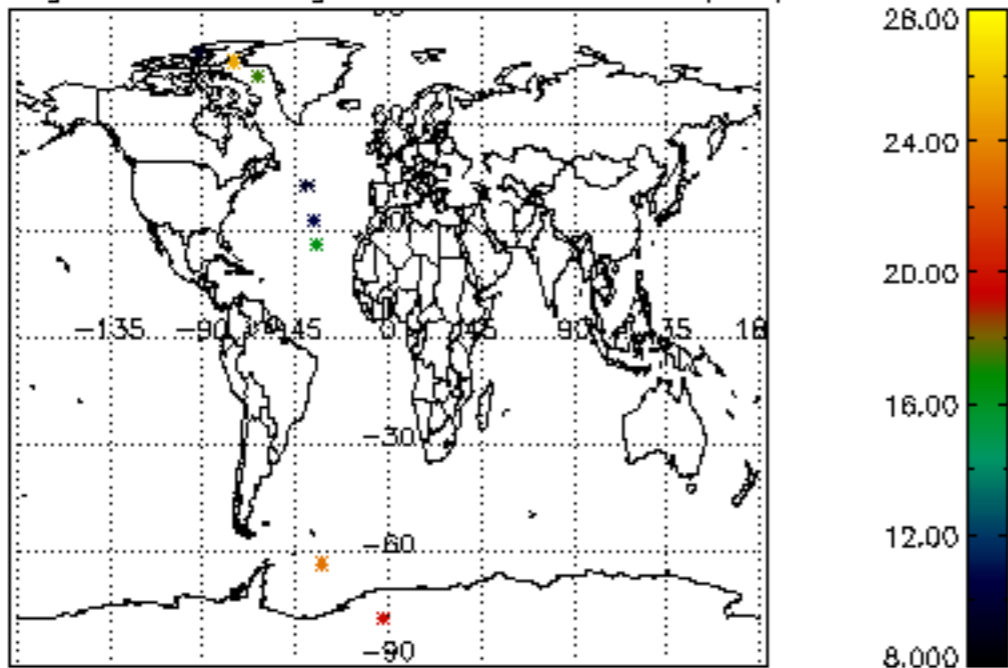
Percentage of cosmic ray hits per profile



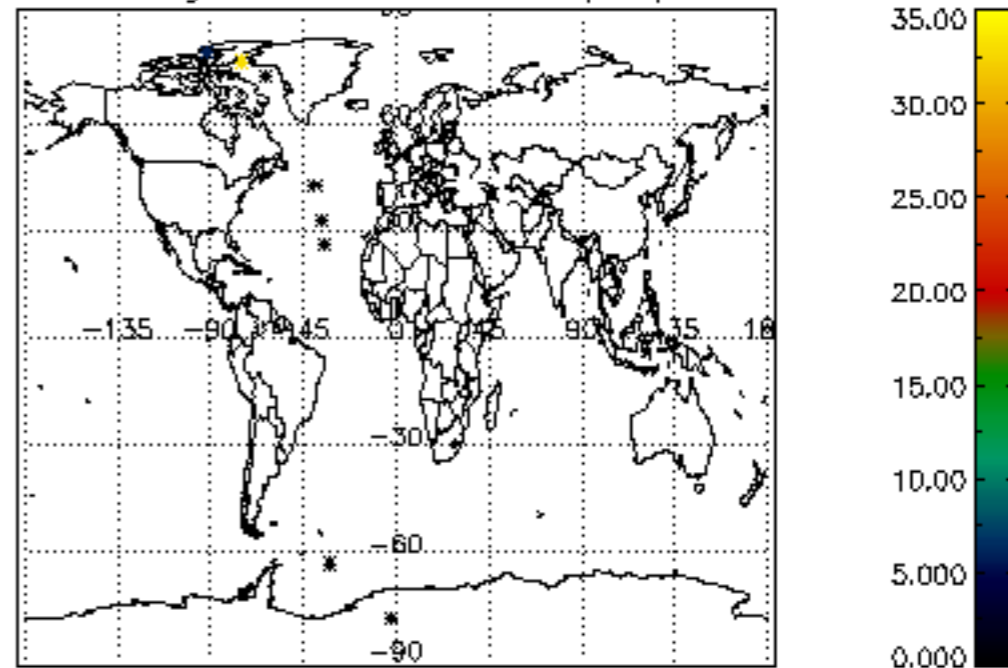
Percentage of datation errors per profile



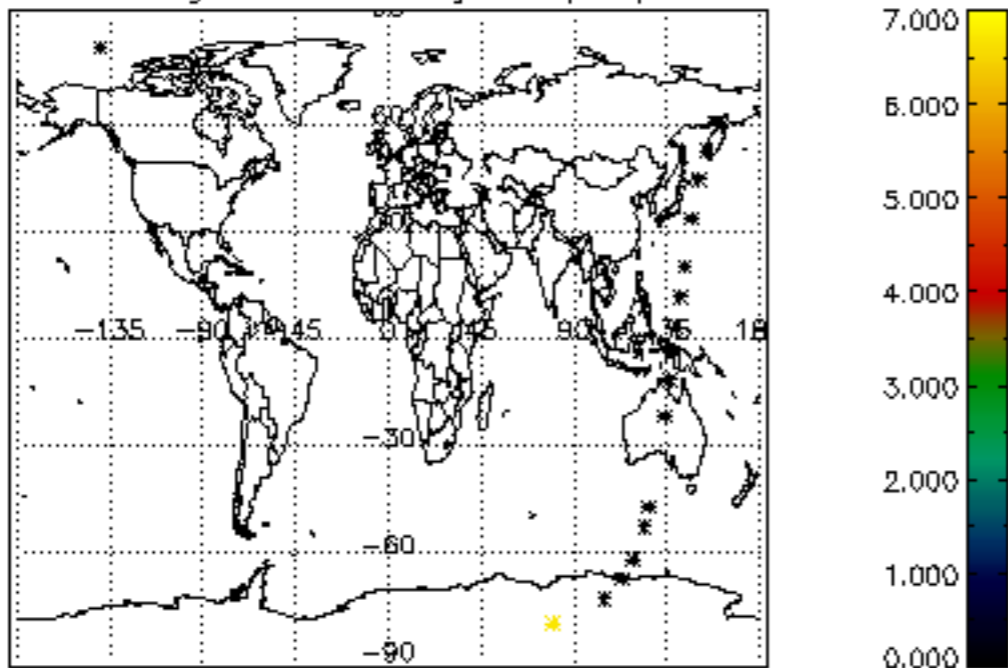
Percentage of star falling outside central band per profile



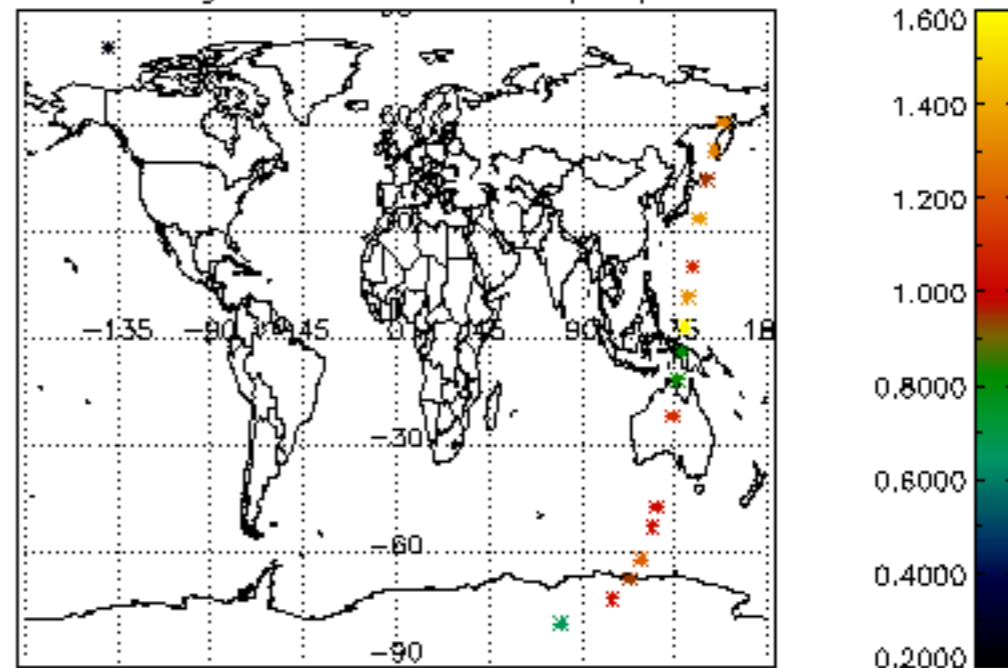
Percentage of saturation errors per profile



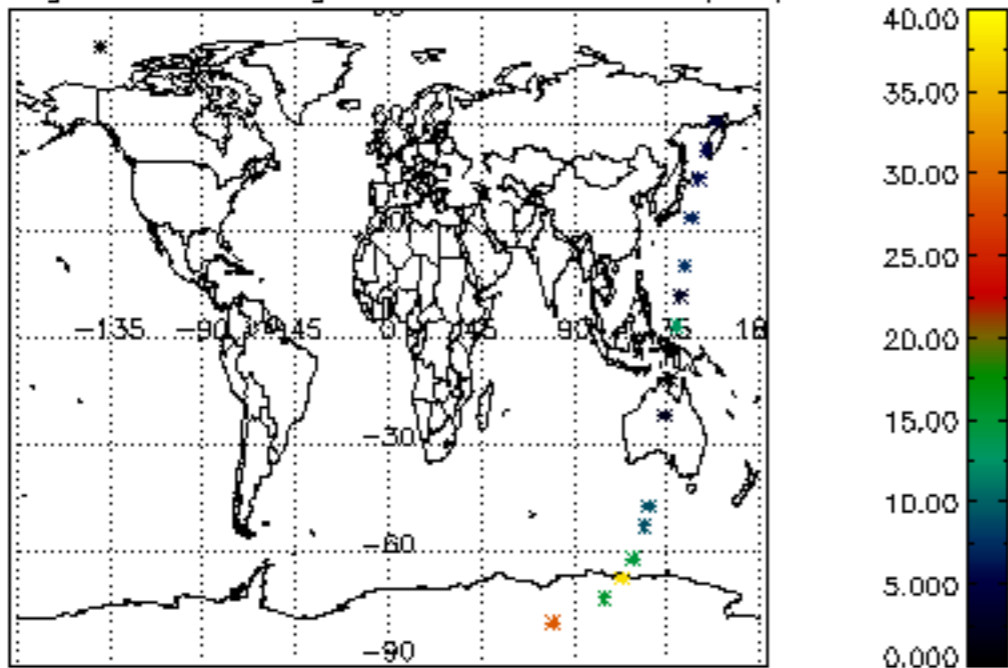
Percentage of cosmic ray hits per profile



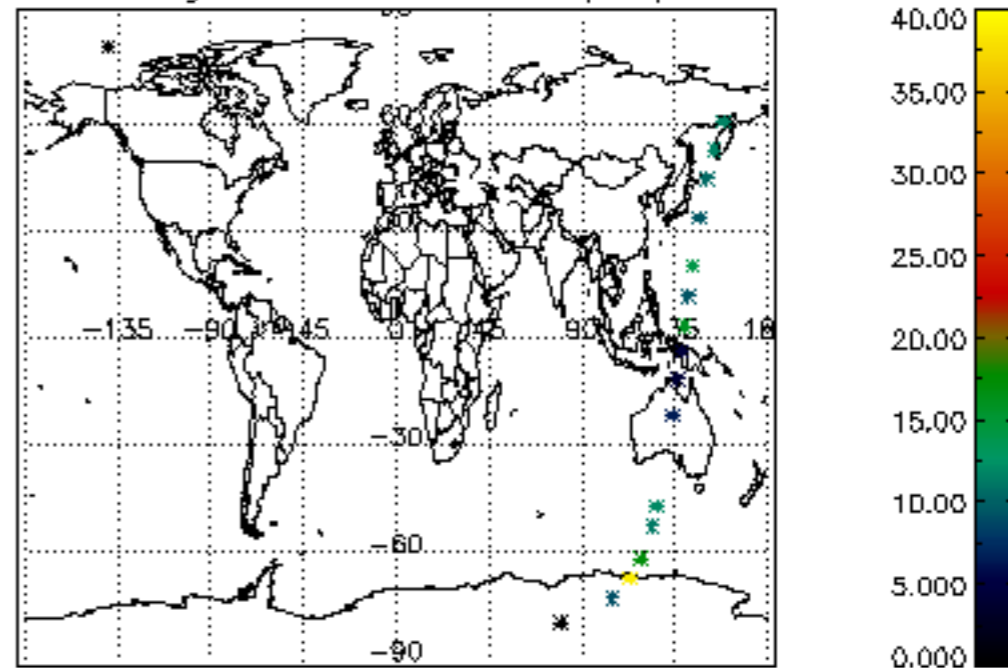
Percentage of datation errors per profile

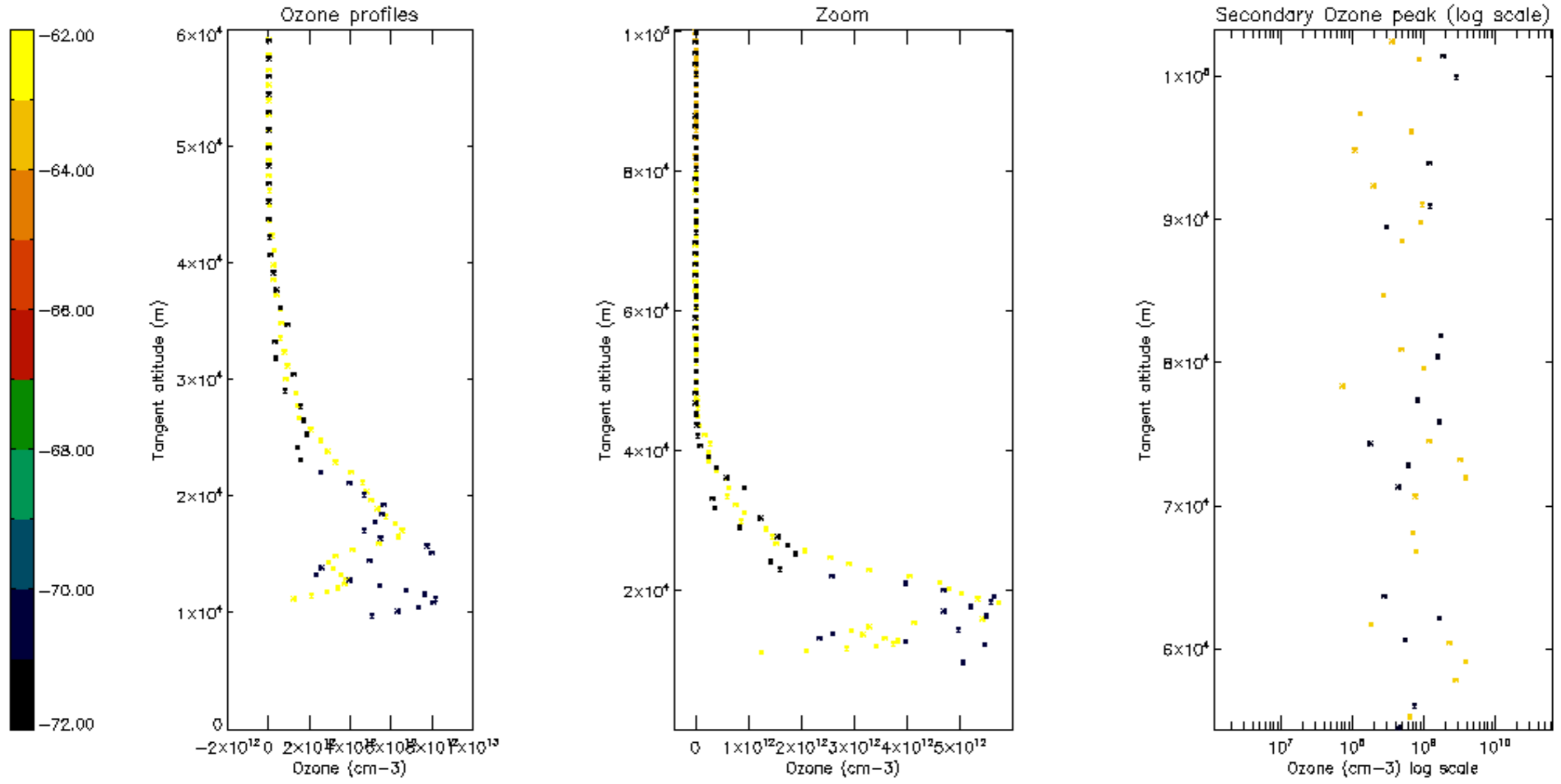


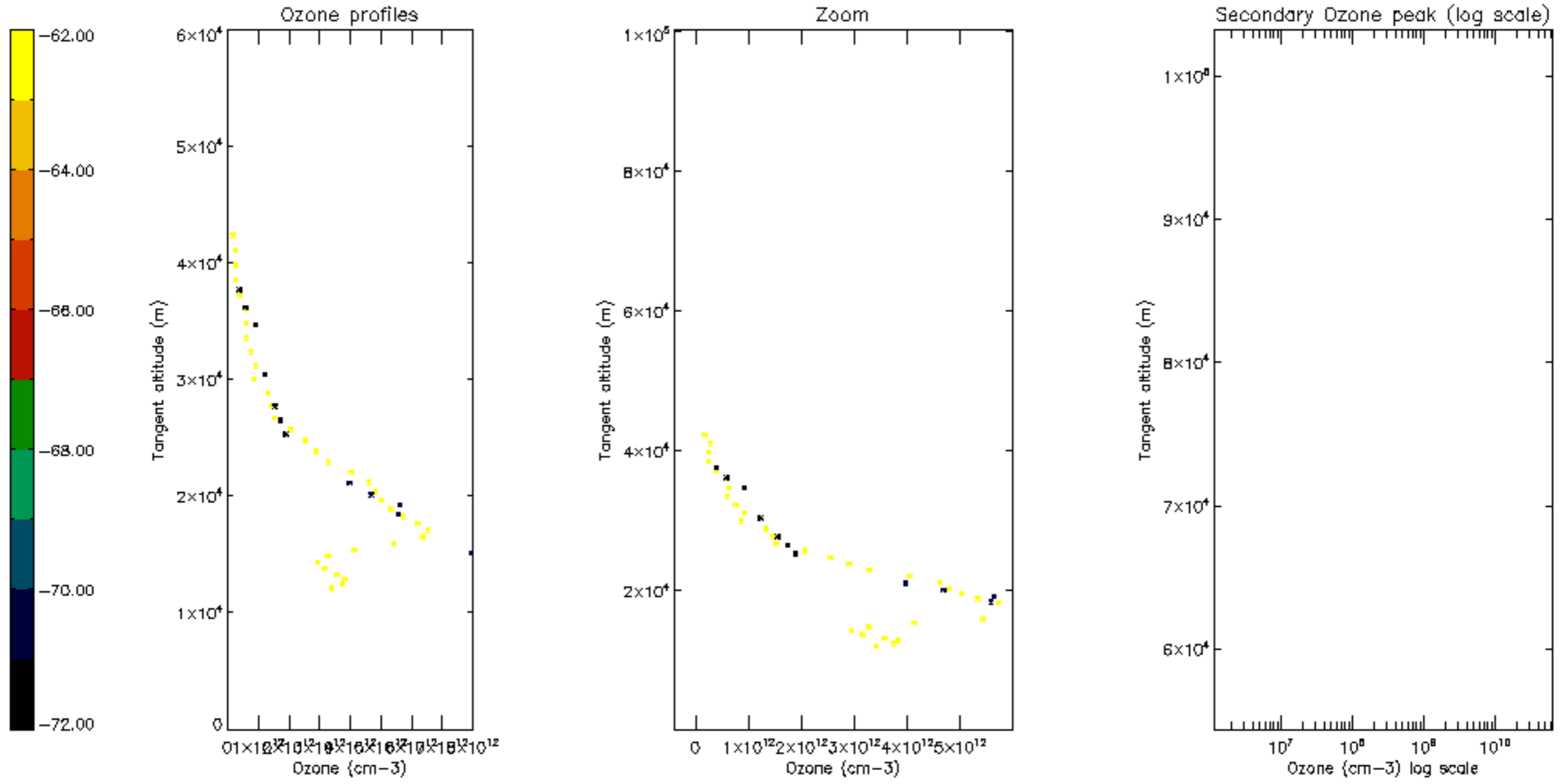
Percentage of star falling outside central band per profile

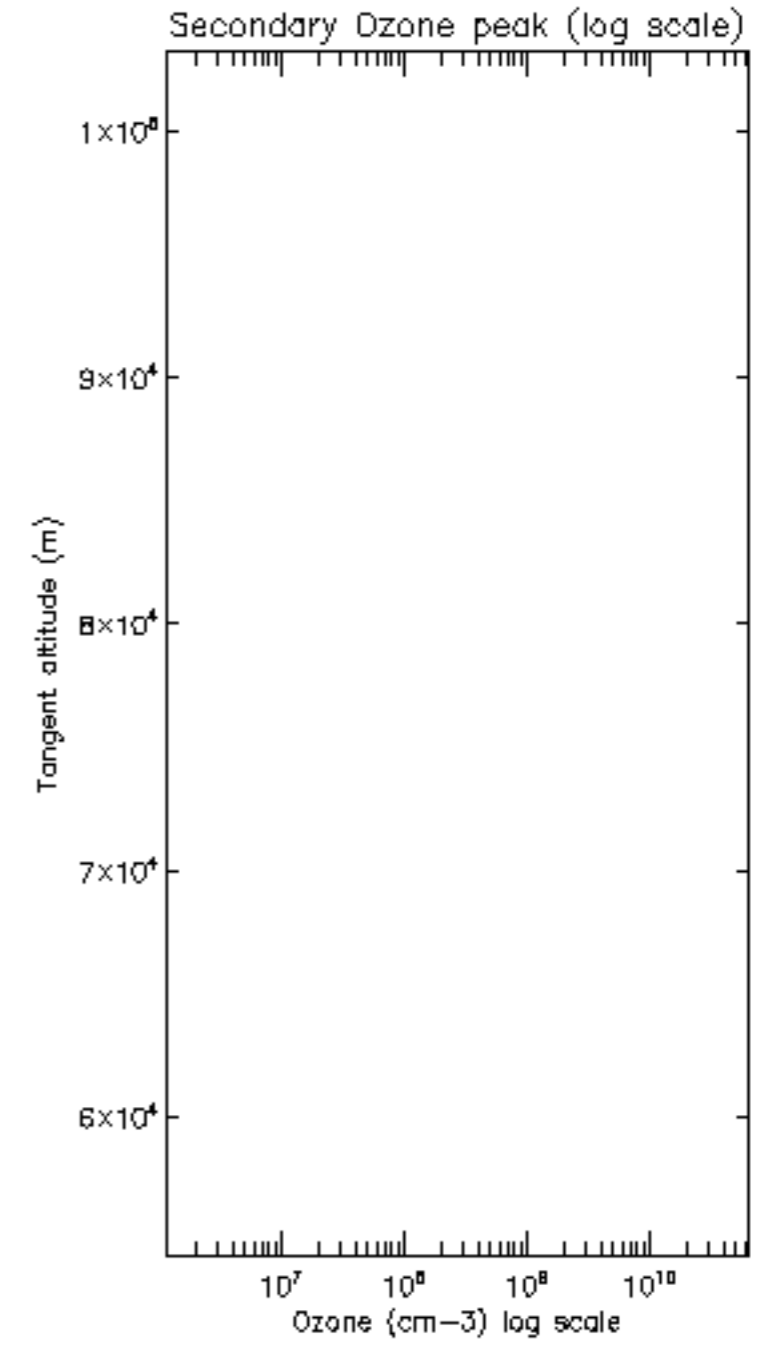
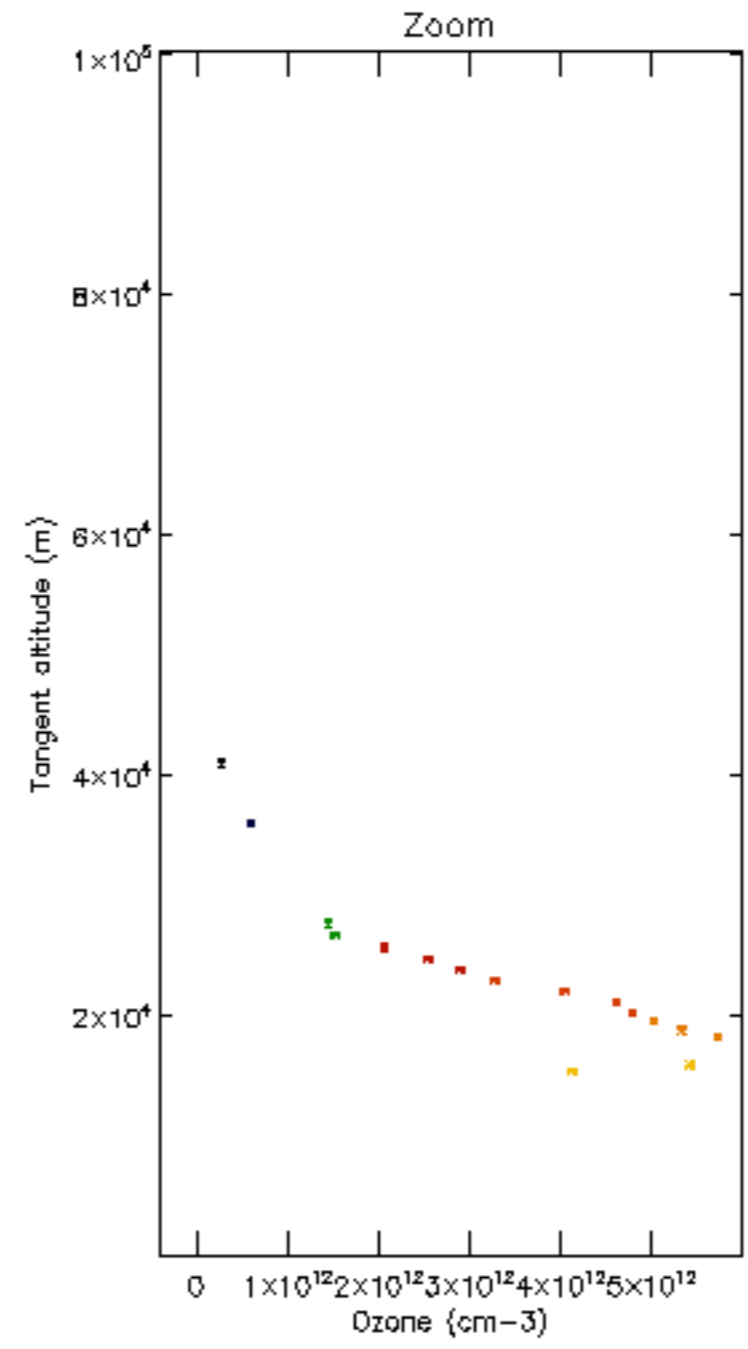
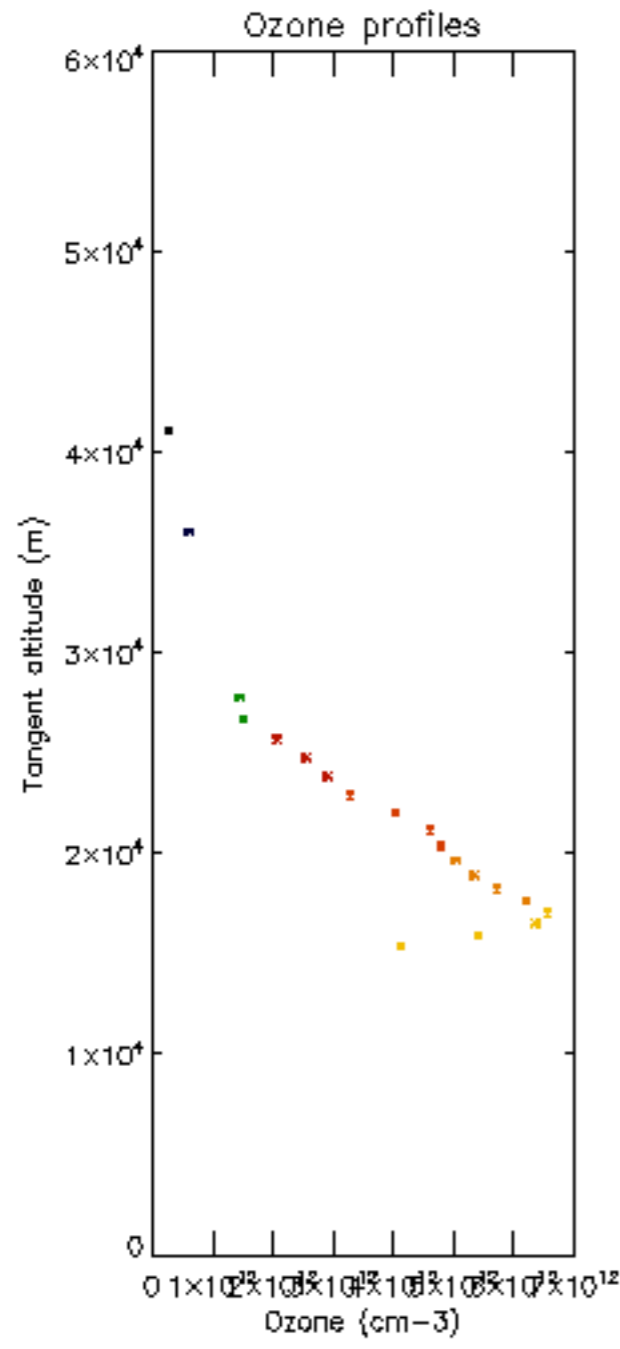
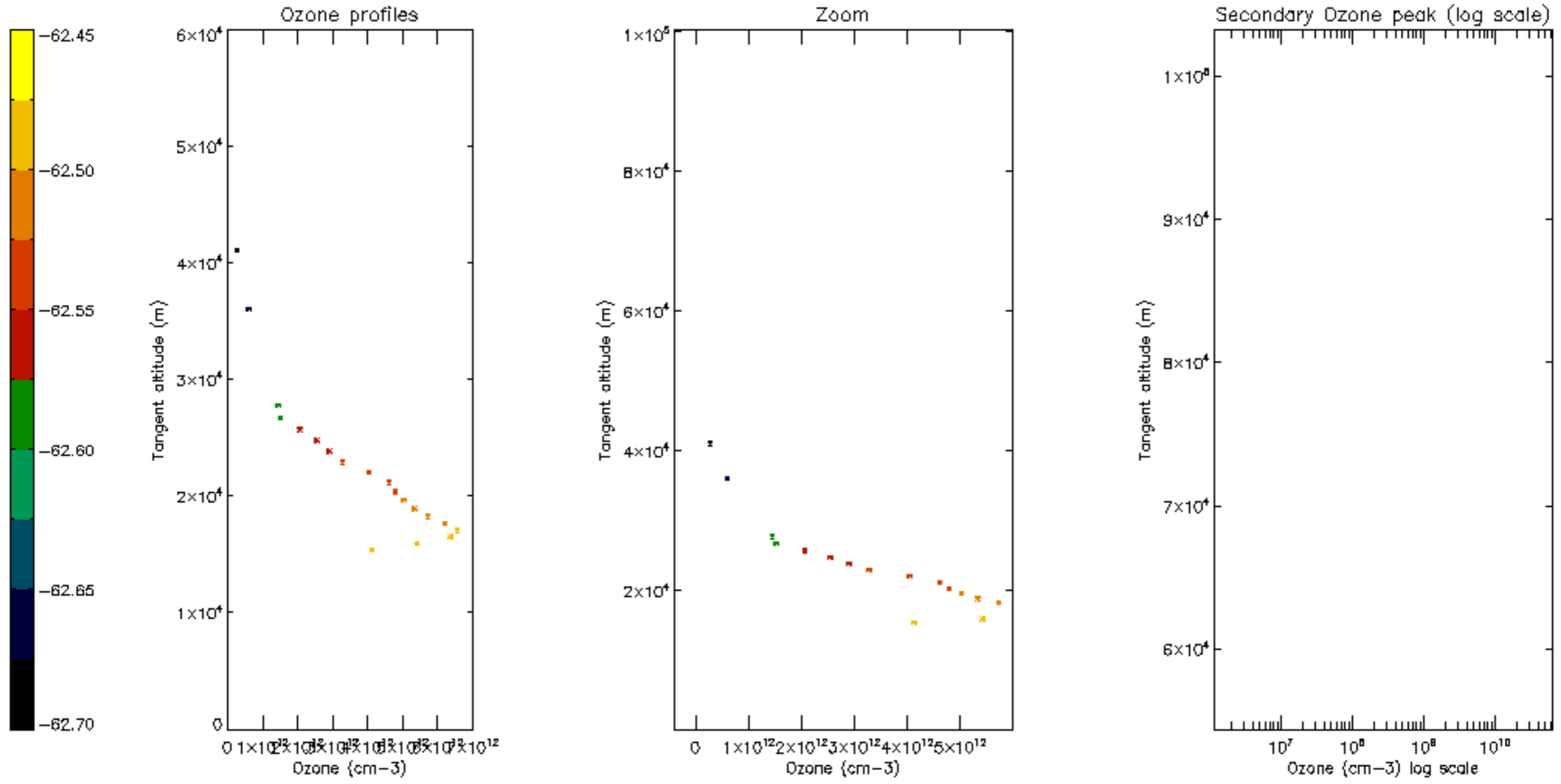


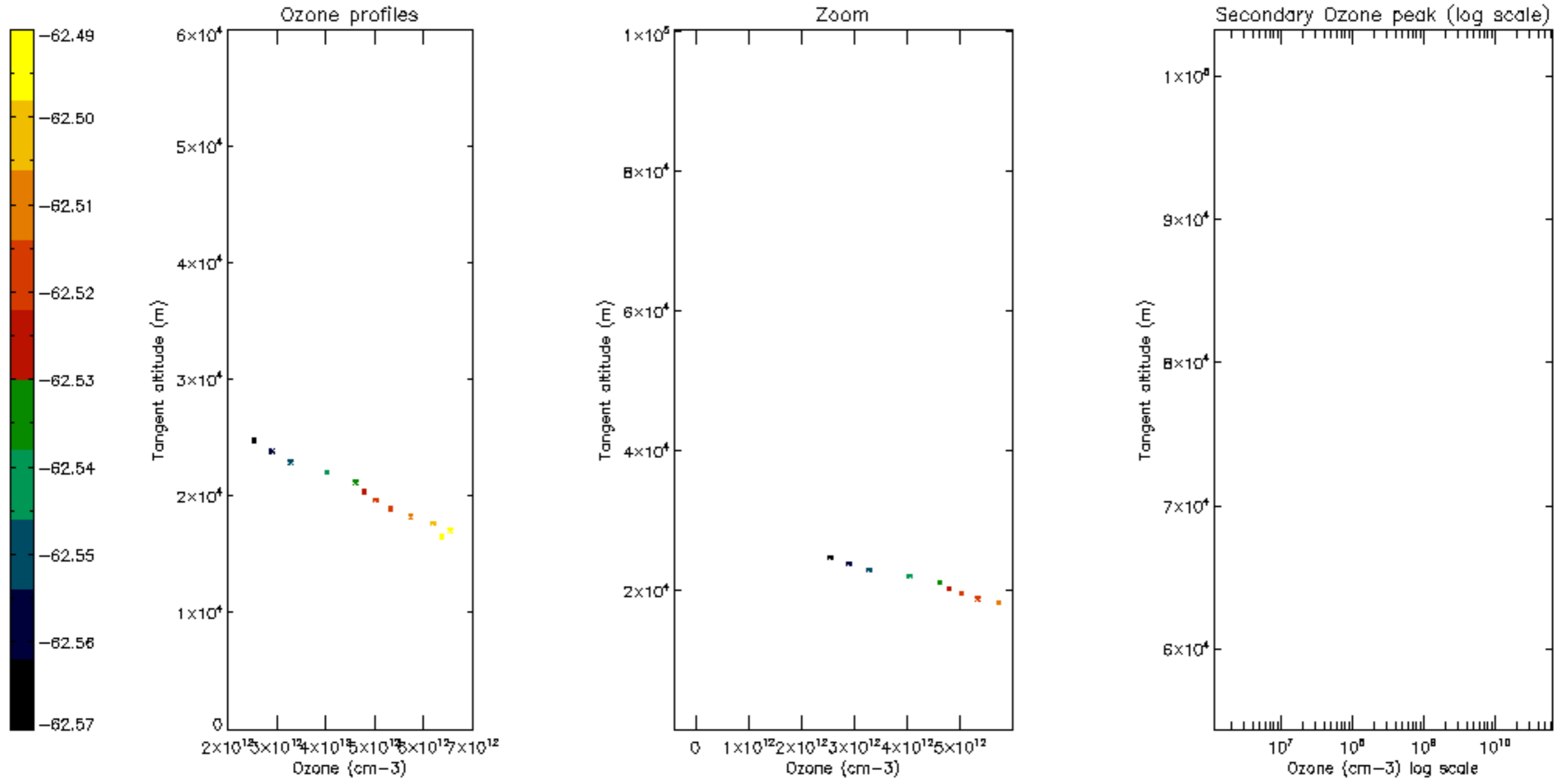
Percentage of saturation errors per profile

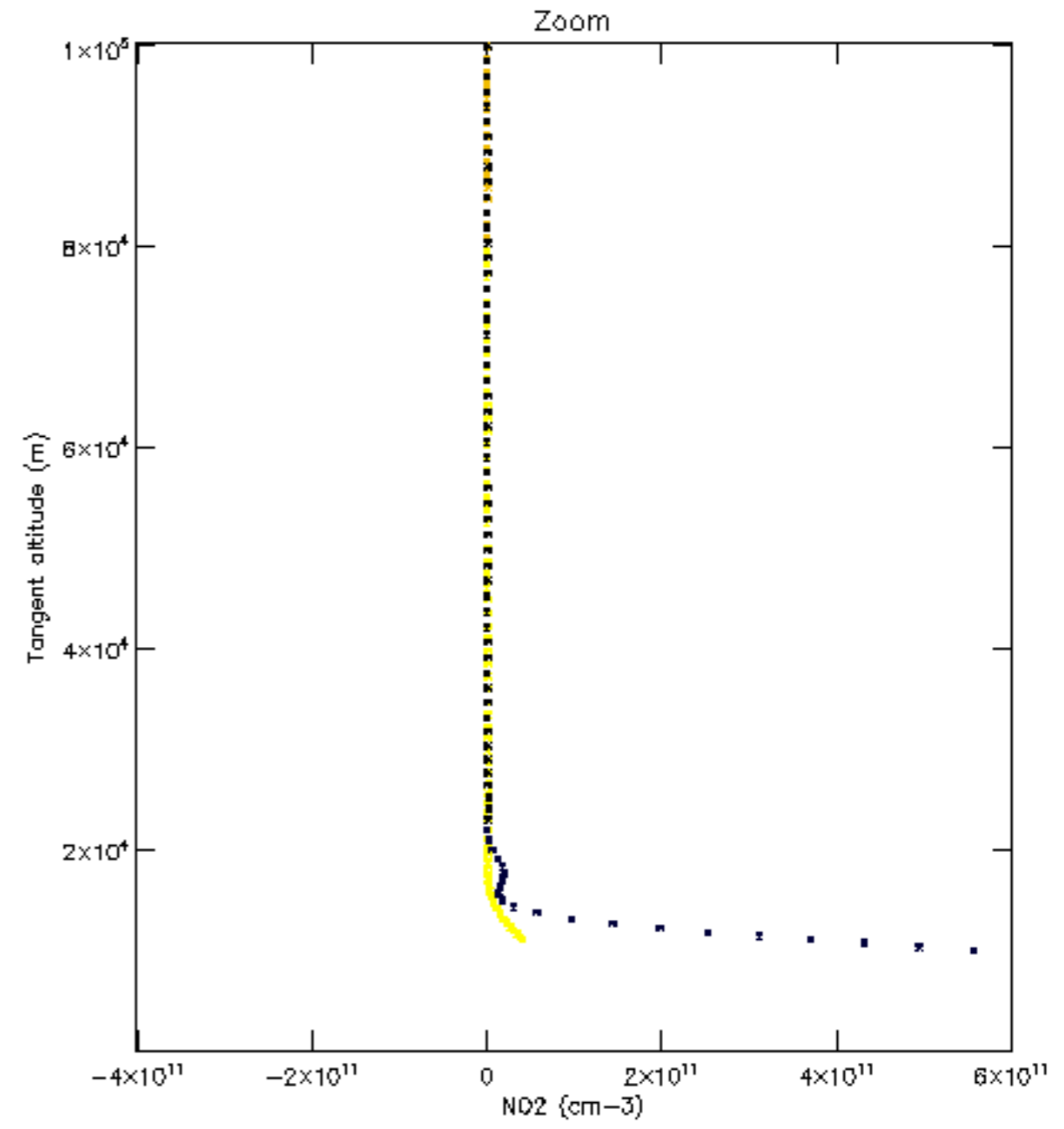
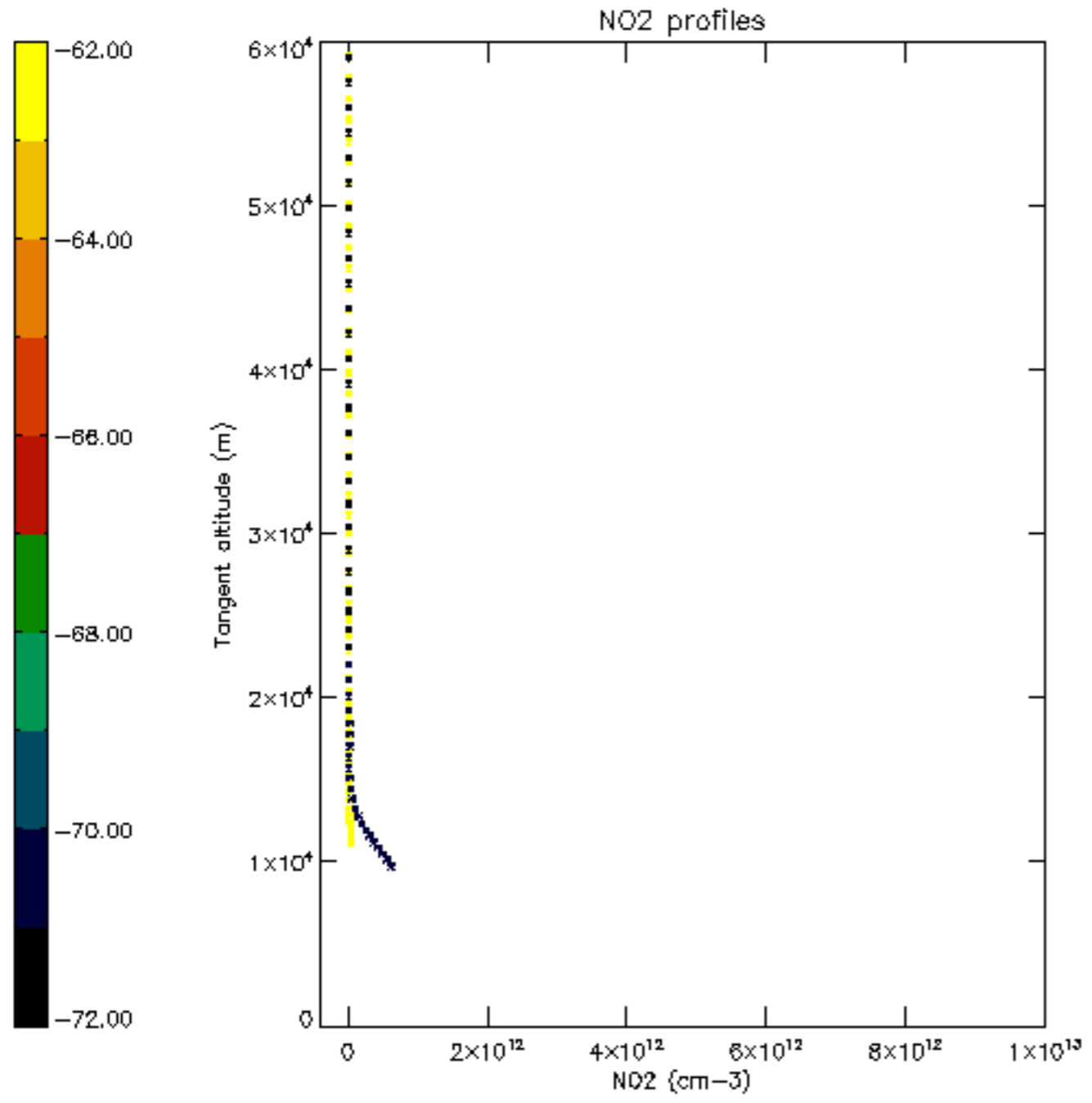


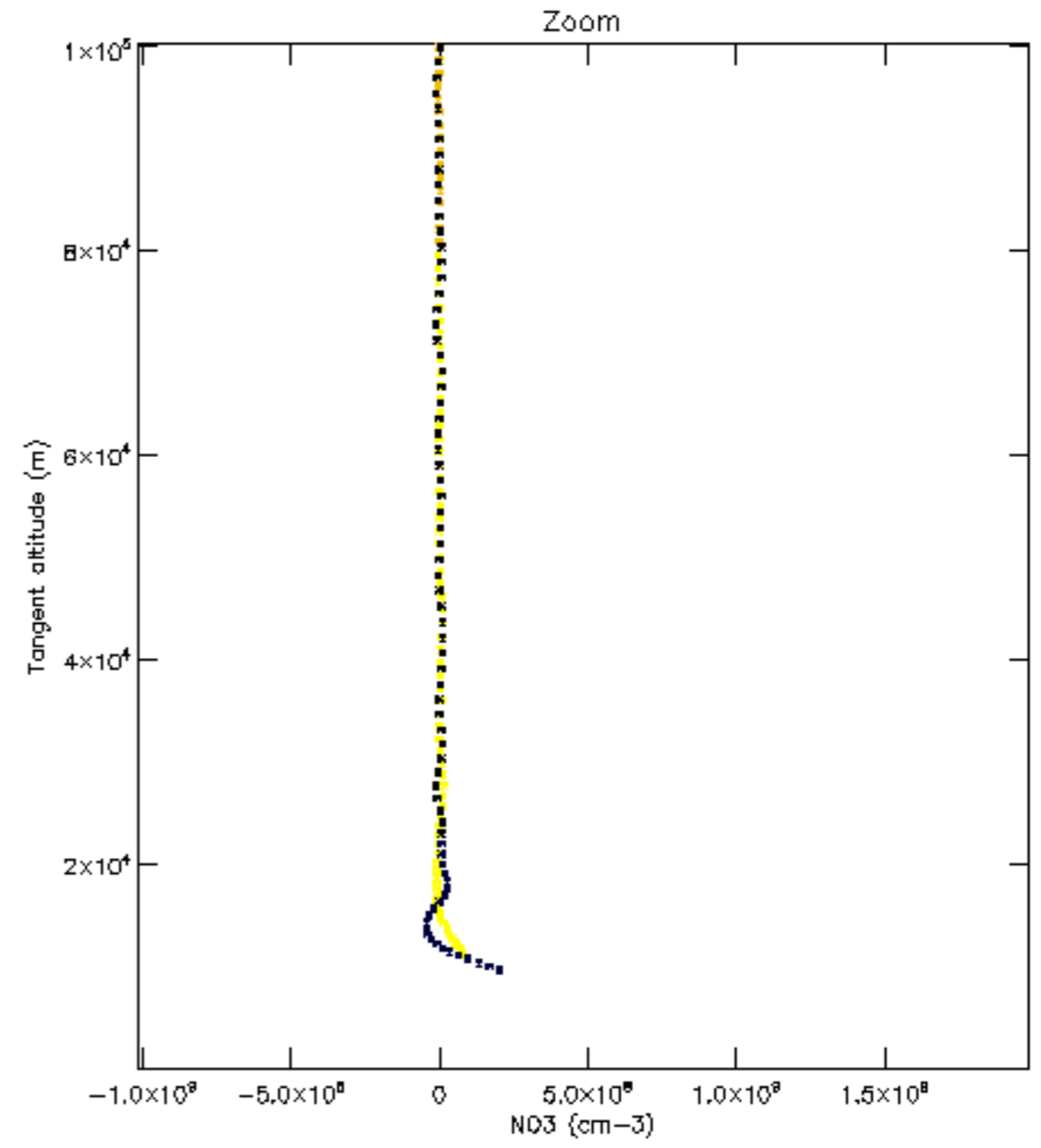
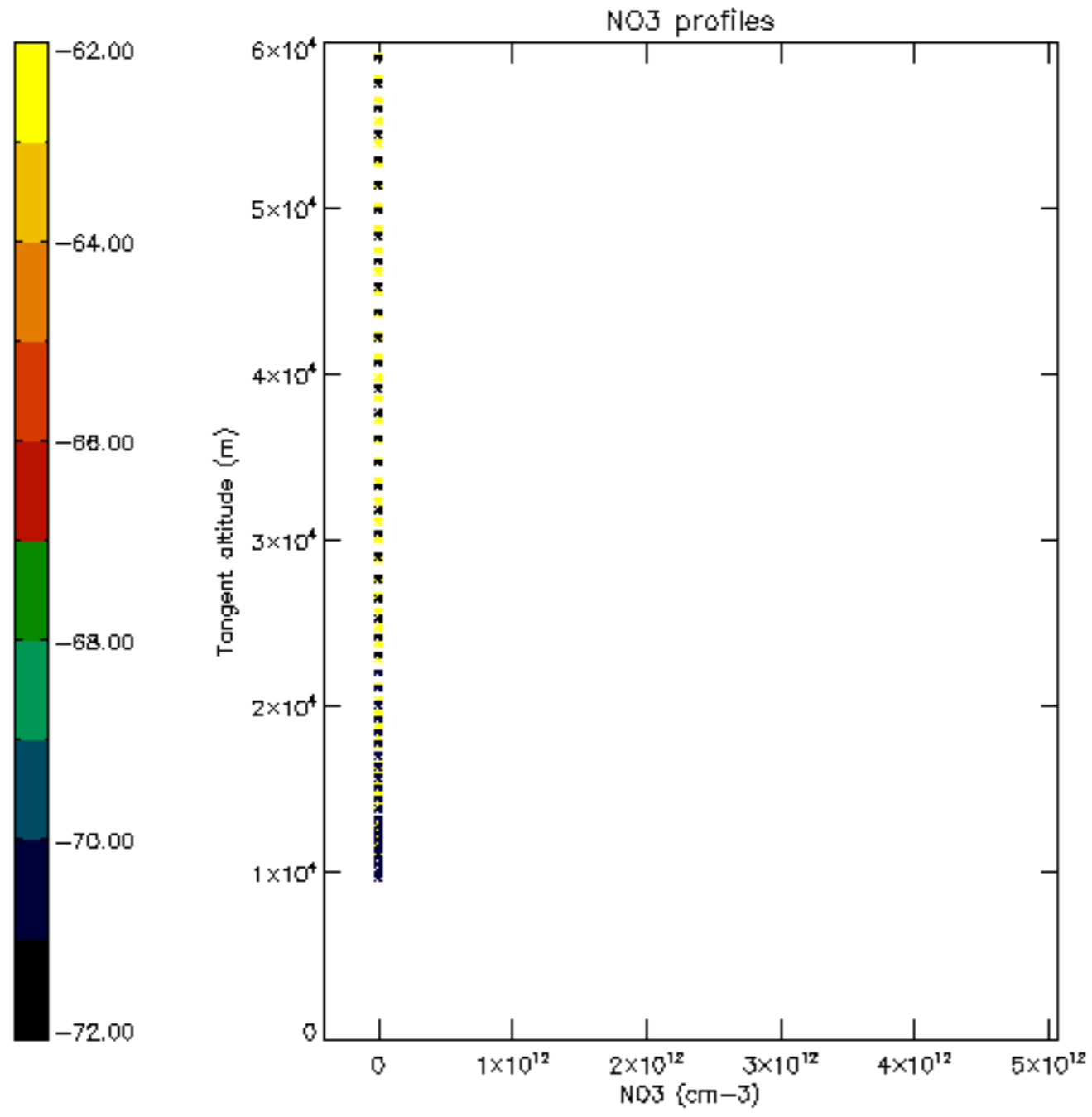


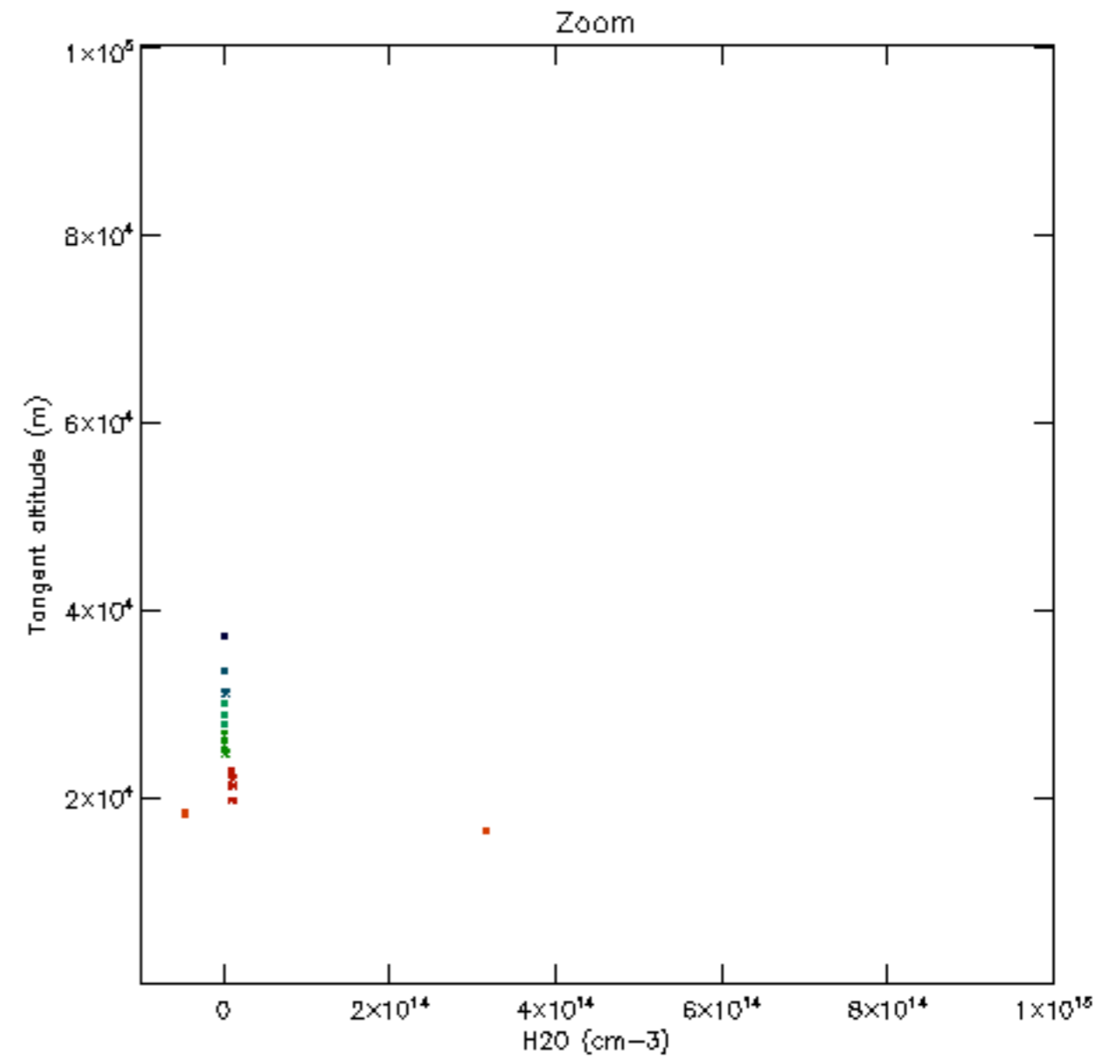
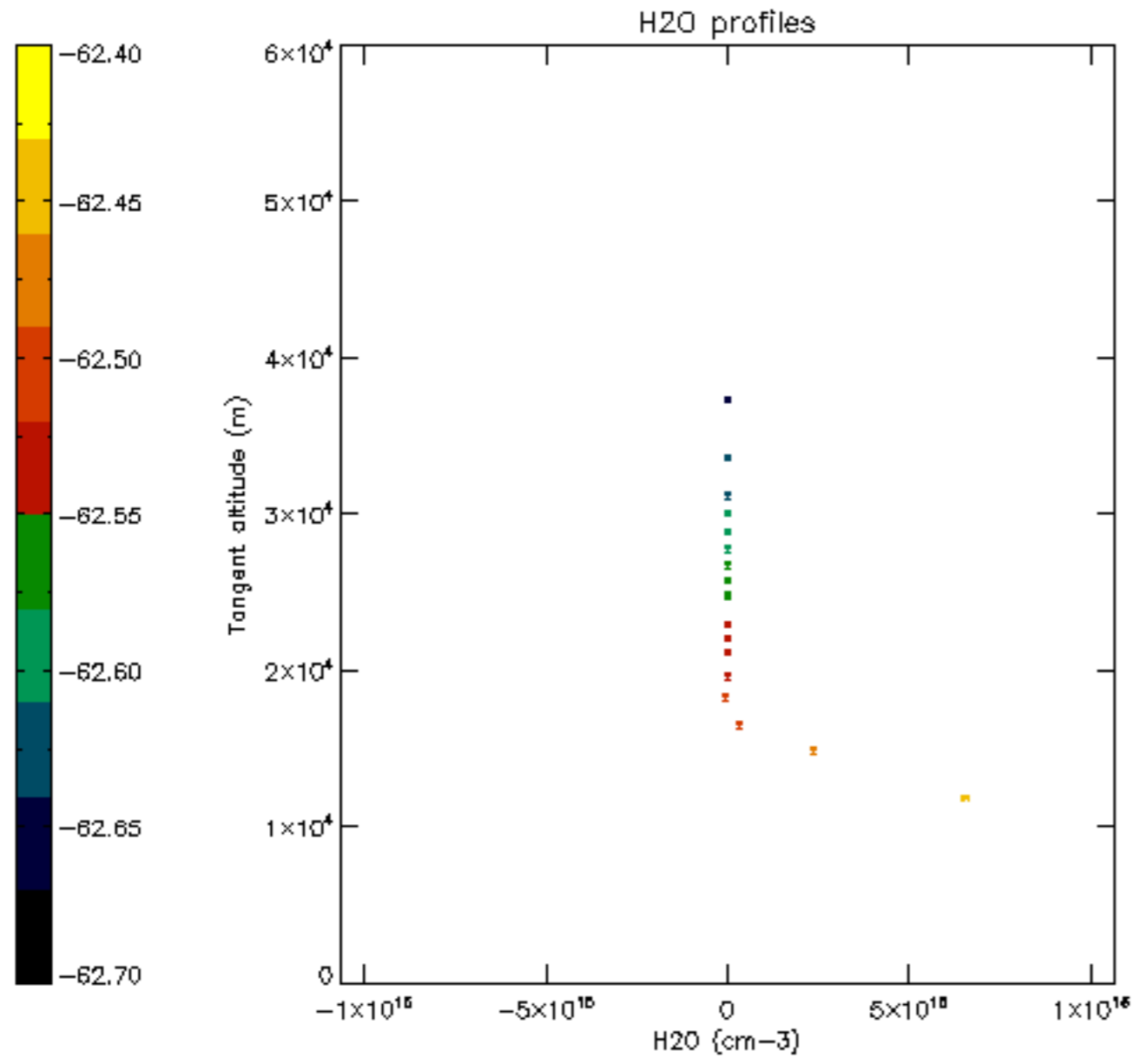


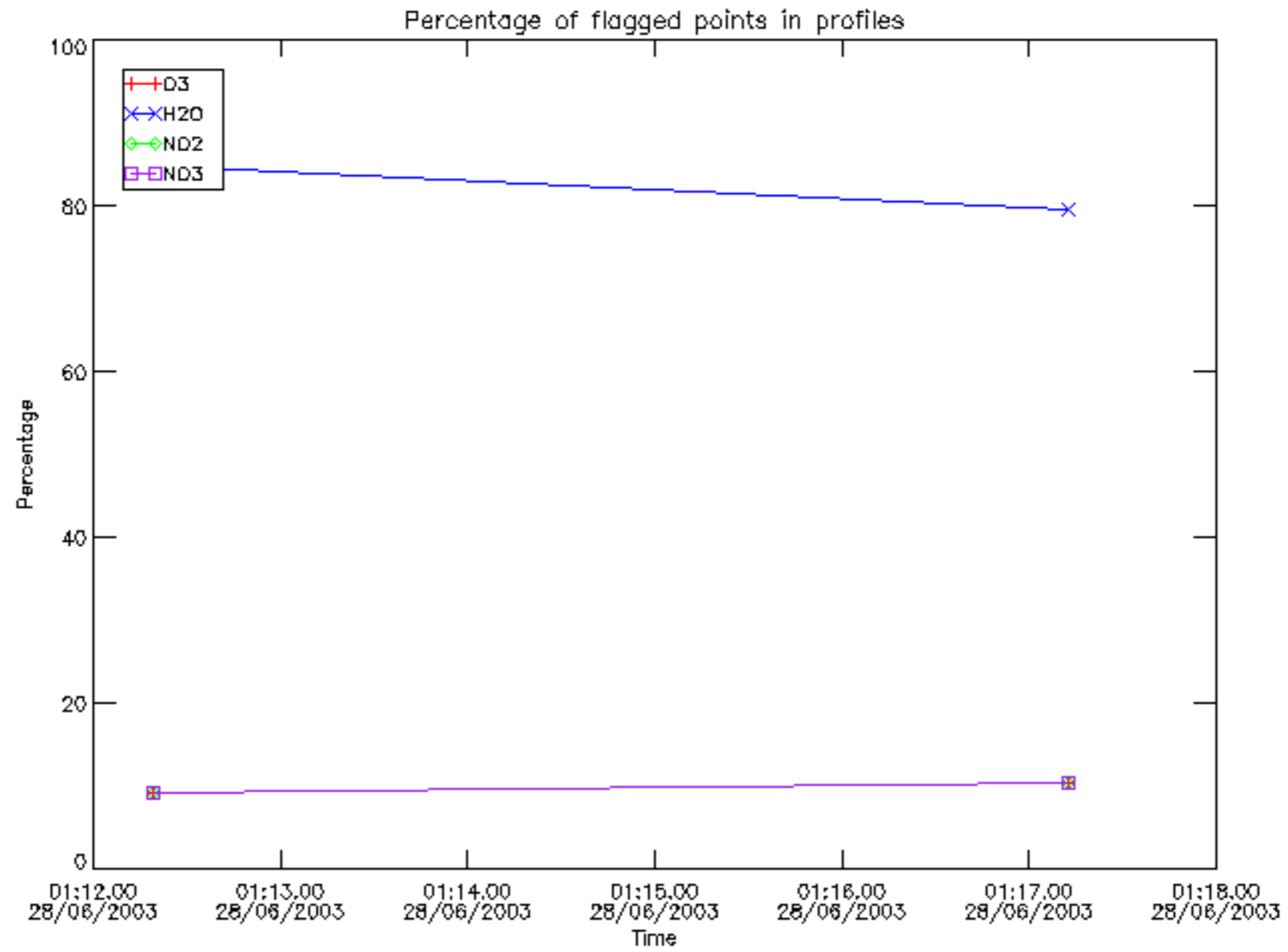




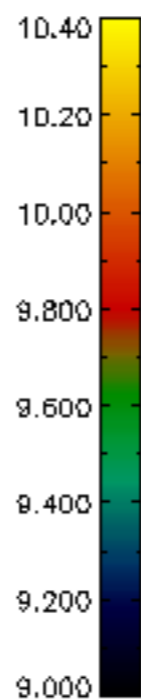
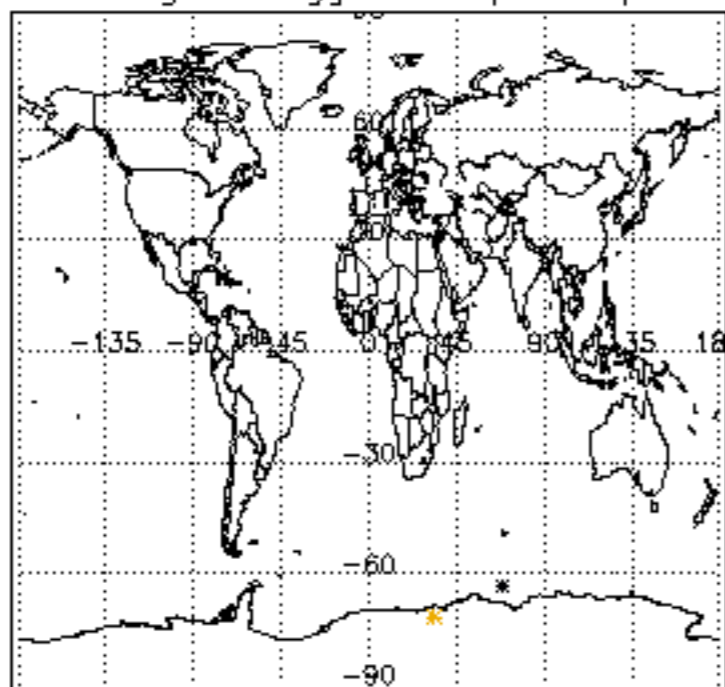




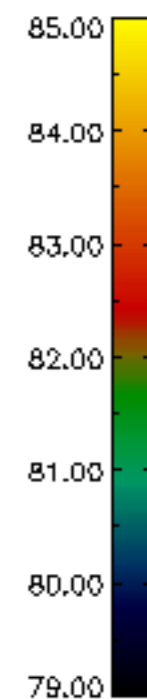
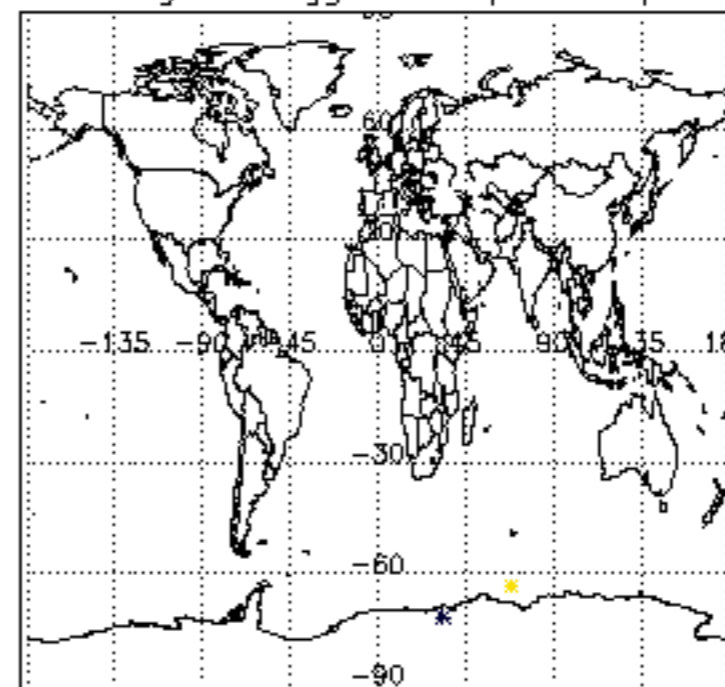




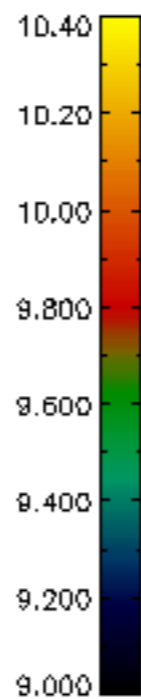
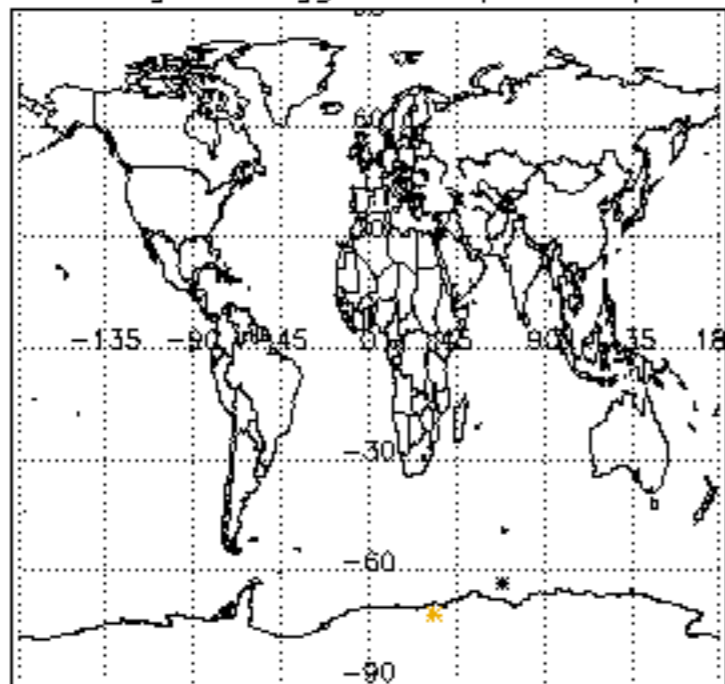
Percentage of flagged data per D3 profile



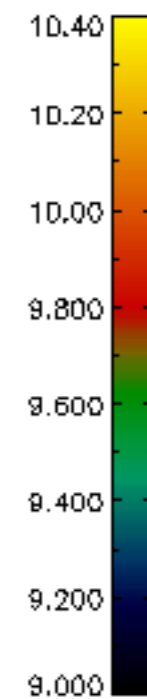
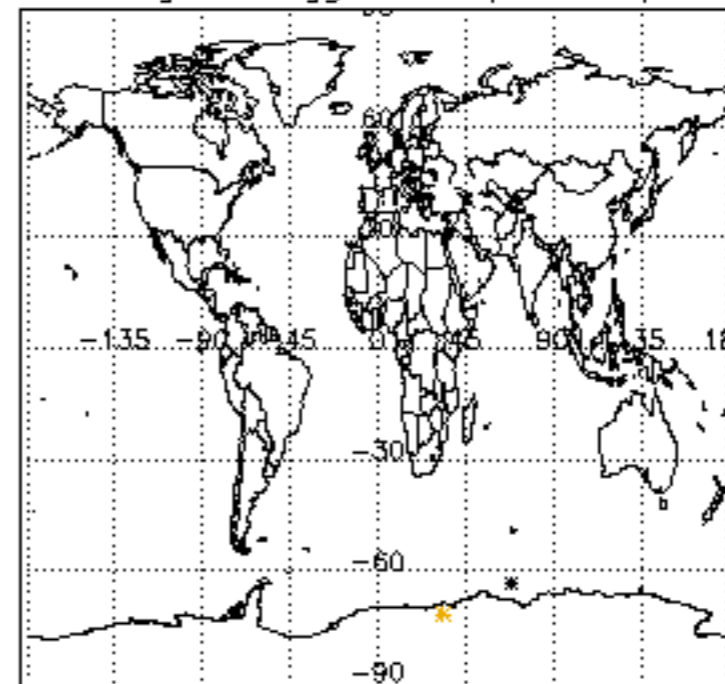
Percentage of flagged data per H2O profile

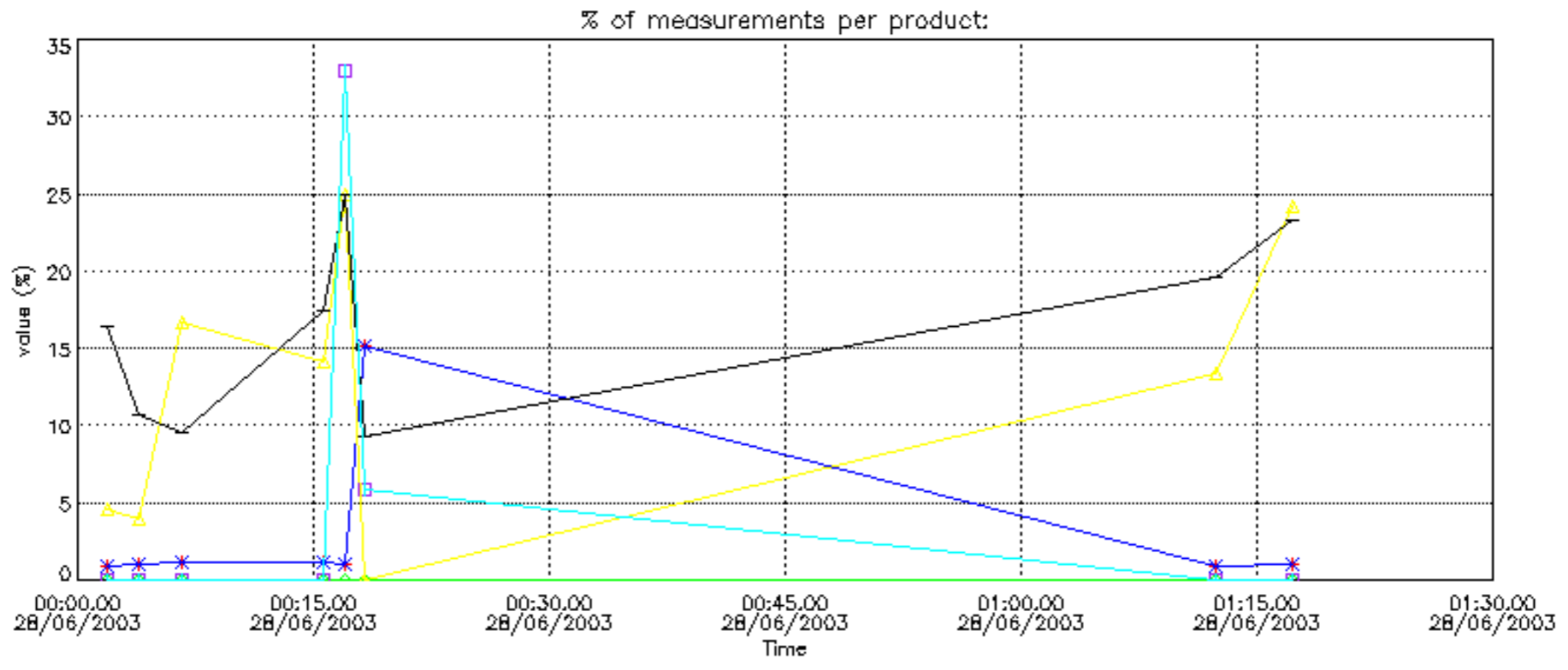


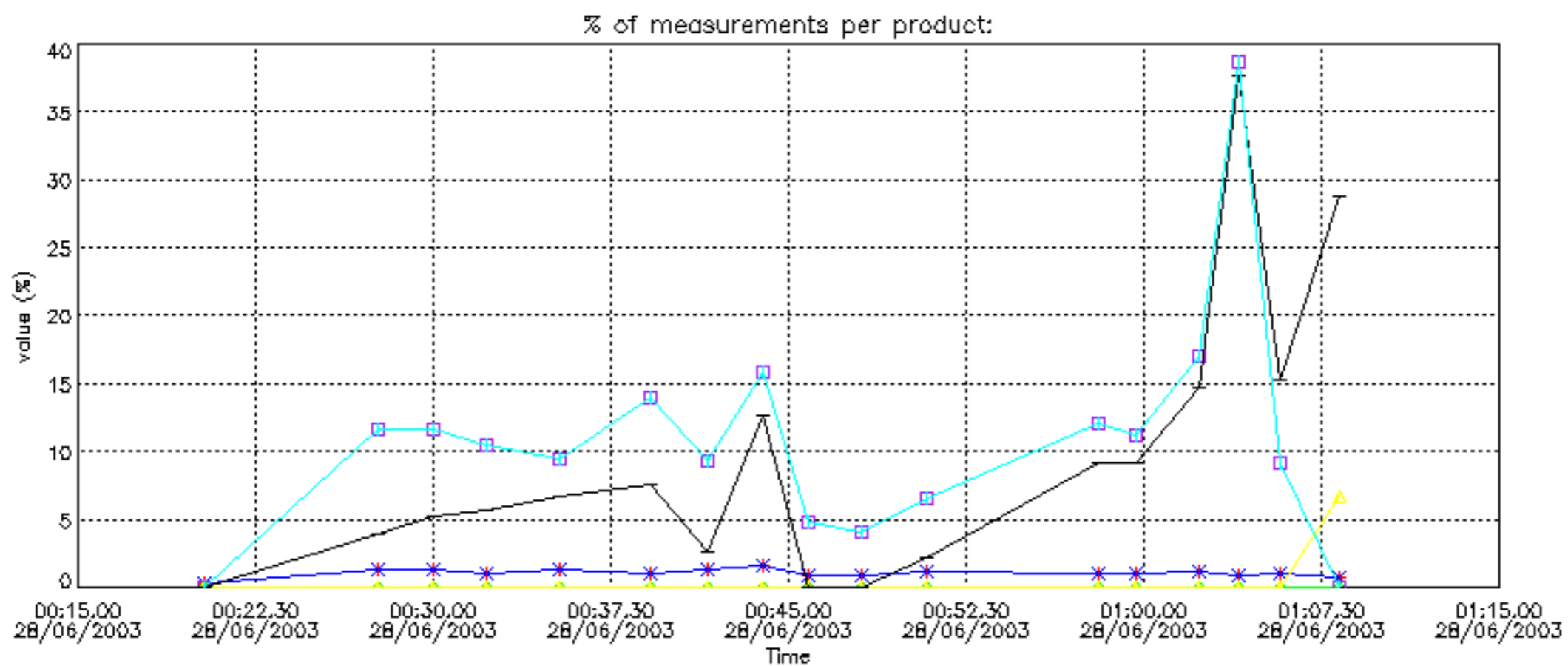
Percentage of flagged data per NO2 profile



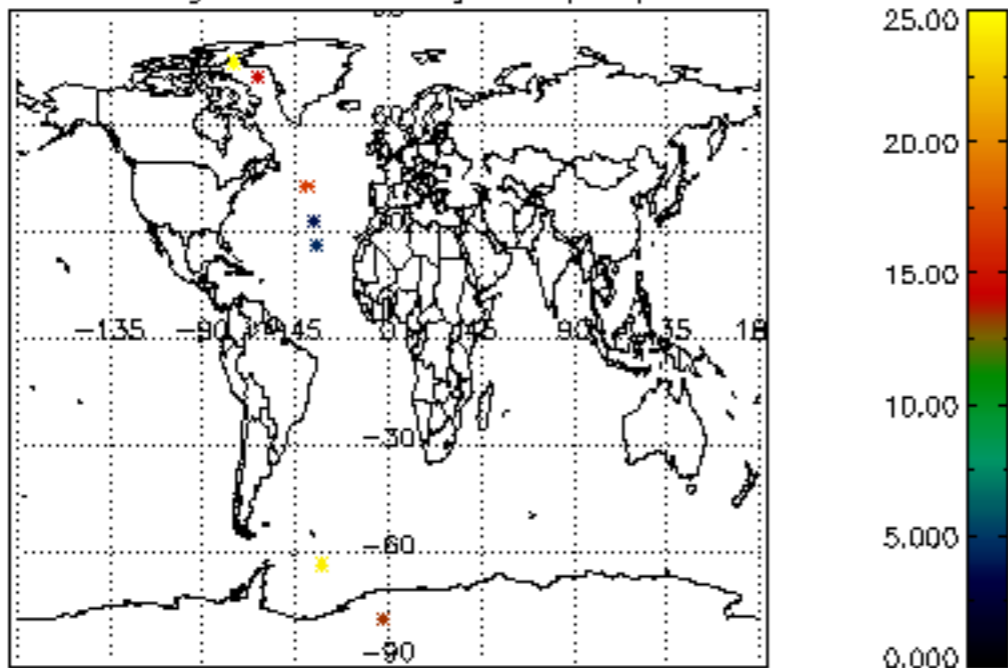
Percentage of flagged data per NO3 profile



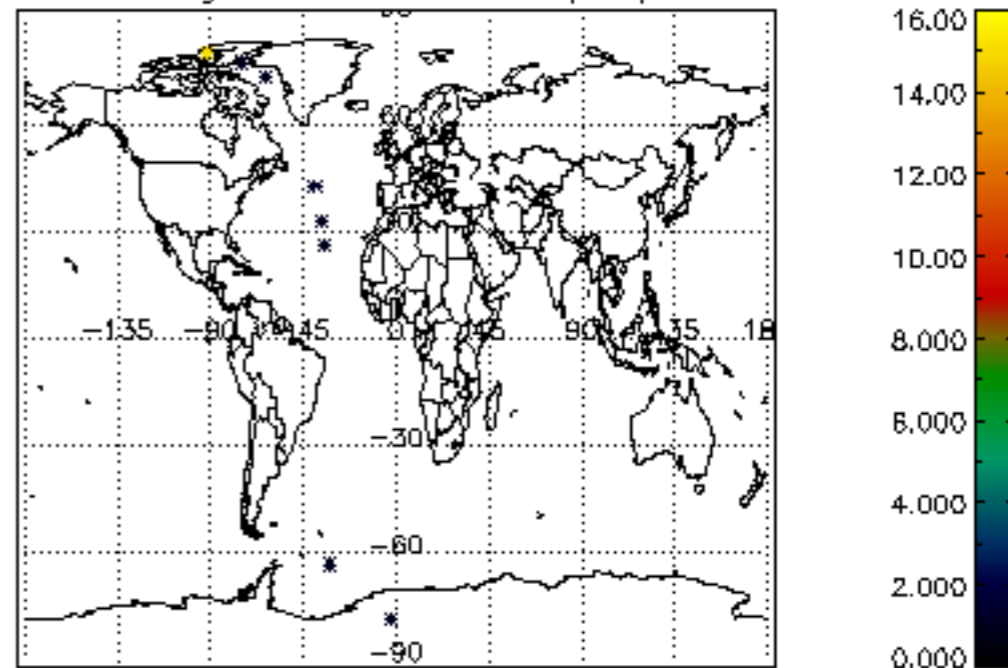




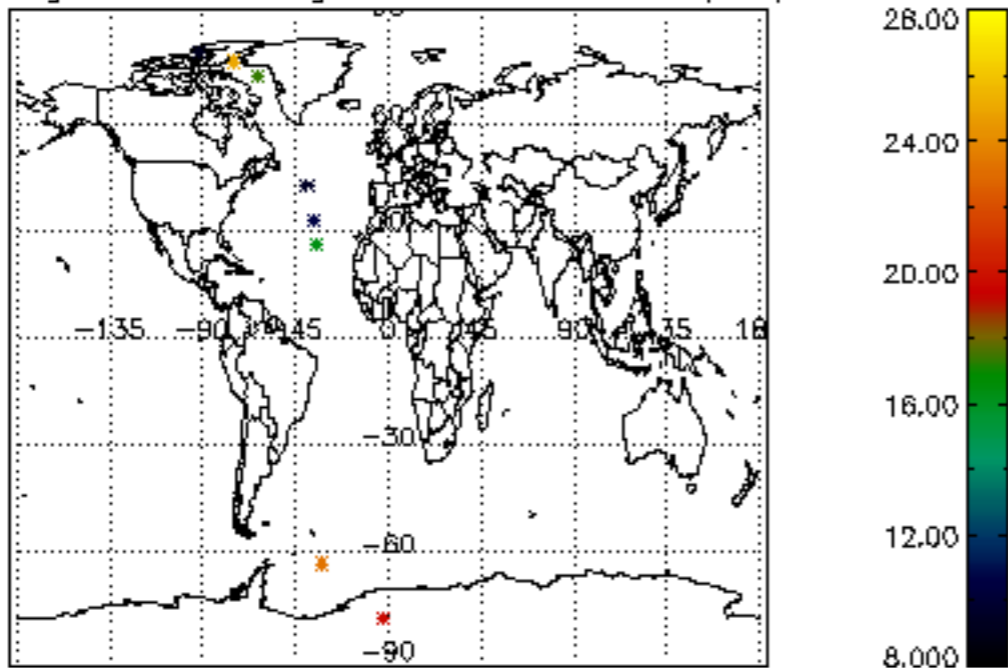
Percentage of cosmic ray hits per profile



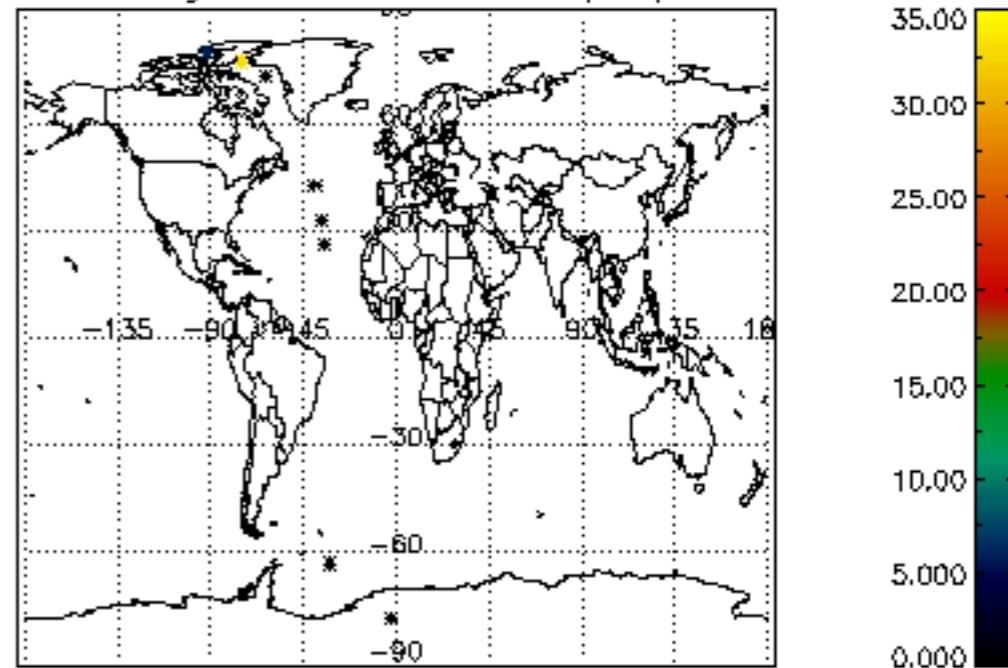
Percentage of datation errors per profile



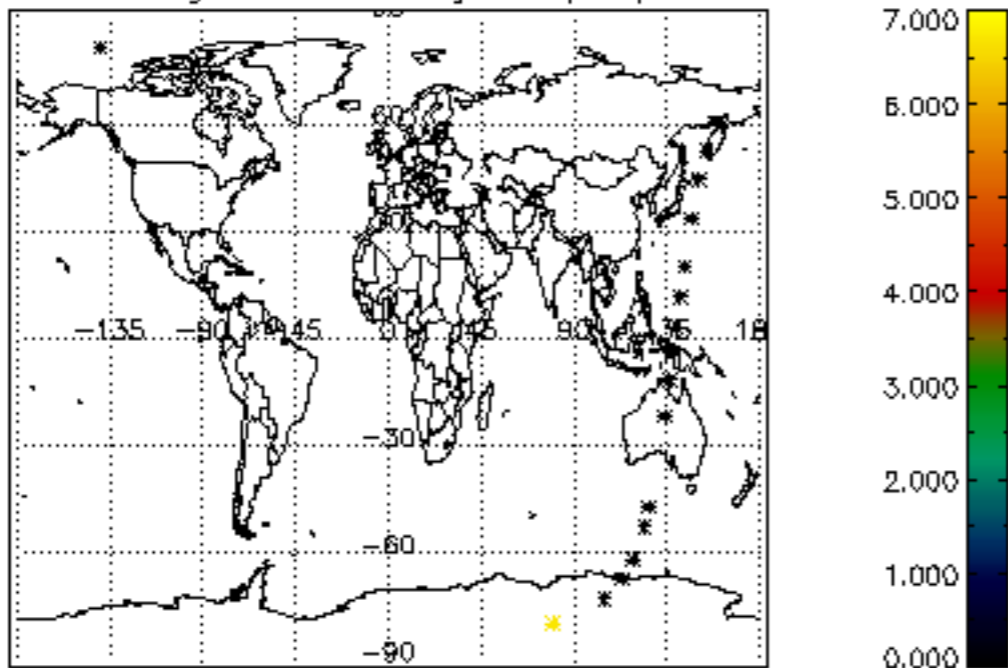
Percentage of star falling outside central band per profile



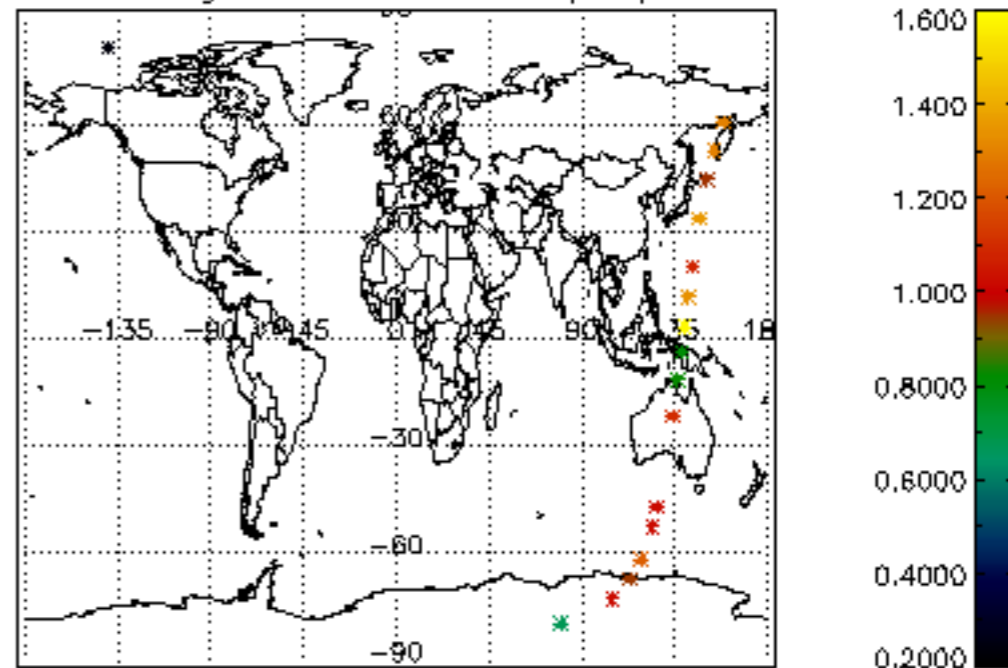
Percentage of saturation errors per profile



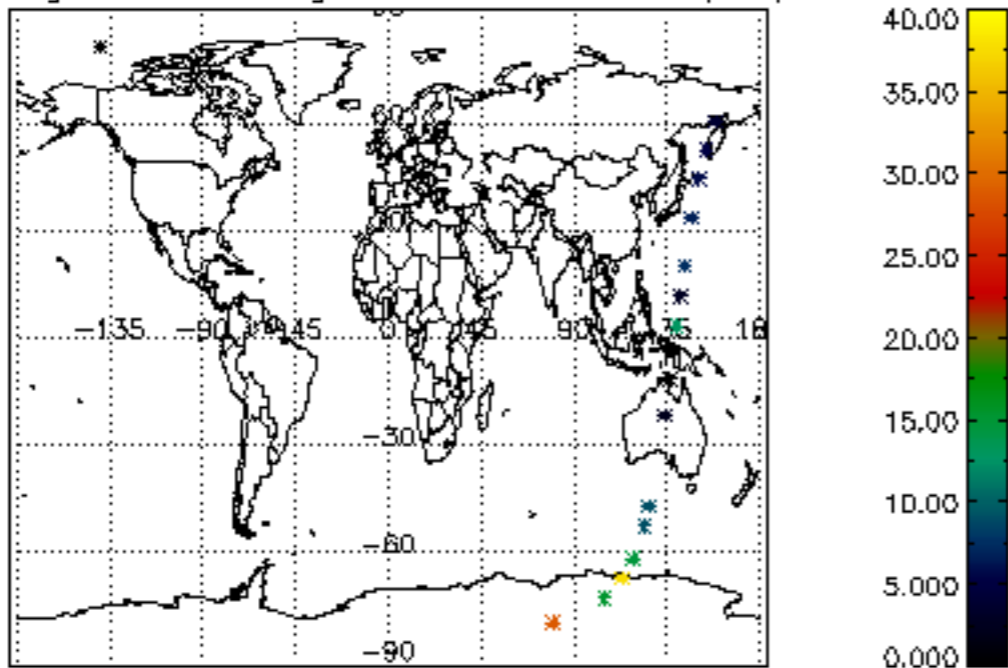
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

