

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

[2. Summary of processed GOM_NL_2P products](#)

[3. Level 2 Quality information per product](#)

[3.1 Plot of level 2 quality information per product \(time dependant\)](#)

[3.2 Plot of level 2 quality information per product \(world map\)](#)

[4. Level 1 Quality information per product \(stored on level 2 products\)](#)

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

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

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

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

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

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

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

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

[5.2 Plot ozone profiles for all STD \(dark without errors\)](#)

[5.3 Plot ozone profiles where STD < 20% \(dark without errors\)](#)

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

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

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

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

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

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

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

Item	Value
Time of report generation	18APR2013 10:55:11
Data source version	GOMOS/6.01
Start time of products	13-09-2005 (13SEP2005 00:00:00)
Stop time of products	14-09-2005 (14SEP2005 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	230
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

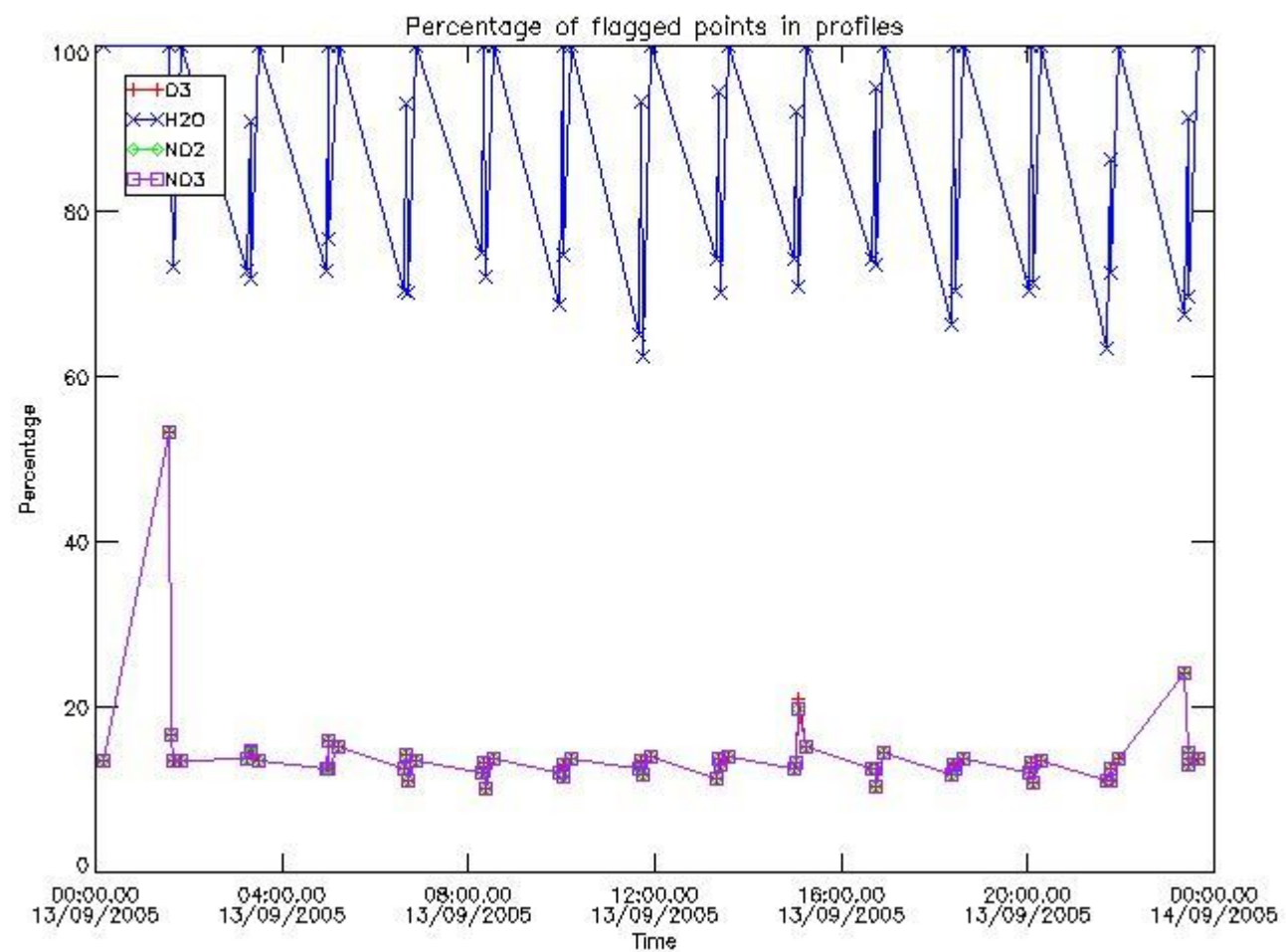
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20050913_000948_000000382040_00403_18493_6709.N1	13-SEP-2005 00:09:48	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	18493	No
2	GOM_NL__2PRFIN20050913_001521_000000432040_00403_18493_6710.N1	13-SEP-2005 00:15:21	Straylight	42.500	148	Alp Tuc	2.8780	4100.0	85	18493	No
3	GOM_NL__2PRFIN20050913_001904_000000382040_00403_18493_6711.N1	13-SEP-2005 00:19:04	Straylight	37.500	31	Alp Gru	1.7340	15200.	75	18493	No
4	GOM_NL__2PRFIN20050913_002151_000000382040_00403_18493_6712.N1	13-SEP-2005 00:21:51	Straylight	38.000	172	Gam Gru	3.0030	13100.	76	18493	No
5	GOM_NL__2PRFIN20050913_002748_000000382040_00403_18493_6713.N1	13-SEP-2005 00:27:48	Twilight_and_stray	38.000	142	49Del Cap	2.8500	8900.0	76	18493	No
6	GOM_NL__2PRFIN20050913_003053_000000372040_00403_18493_6714.N1	13-SEP-2005 00:30:53	Bright	36.500	154	22Bet Aqr	2.8990	5700.0	73	18493	No
7	GOM_NL__2PRFIN20050913_003504_000000372040_00403_18493_6715.N1	13-SEP-2005 00:35:04	Bright	37.000	61	8Eps Peg	2.1000	3900.0	74	18493	No
8	GOM_NL__2PRFIN20050913_004216_000000342040_00403_18493_6716.N1	13-SEP-2005 00:42:16	Bright	34.000	92	53Eps Cyg	2.5000	4500.0	68	18493	No
9	GOM_NL__2PRFIN20050913_004421_000000352040_00403_18493_6717.N1	13-SEP-2005 00:44:21	Bright	34.500	66	37Gam Cyg	2.2080	5900.0	69	18493	No
10	GOM_NL__2PRFIN20050913_004625_000000372040_00403_18493_6718.N1	13-SEP-2005 00:46:25	Bright	36.500	144	18Del Cyg	2.8600	11000.	73	18493	No
11	GOM_NL__2PRFIN20050913_005818_000000332040_00403_18493_6719.N1	13-SEP-2005 00:58:18	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	18493	No
12	GOM_NL__2PRFIN20050913_010446_000000352040_00403_18493_6720.N1	13-SEP-2005 01:04:46	Bright	34.500	36	50Alp UMa	1.8000	6300.0	69	18493	No
13	GOM_NL__2PRFIN20050913_010612_000000352040_00403_18493_6721.N1	13-SEP-2005 01:06:12	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	18493	No
14	GOM_NL__2PRFIN20050913_013500_000000472040_00403_18493_6722.N1	13-SEP-2005 01:35:00	Dark	46.500	65	Lam Vel	2.2040	4400.0	93	18493	No
15	GOM_NL__2PRFIN20050913_013816_000000372040_00403_18493_6723.N1	13-SEP-2005 01:38:16	Dark	37.000	46	Del Vel	1.9540	10600.	74	18493	No
16	GOM_NL__2PRFIN20050913_013947_000000382040_00403_18493_6724.N1	13-SEP-2005 01:39:47	Dark	38.000	41	Eps Car	1.8600	4100.0	76	18493	No
17	GOM_NL__2PRFIN20050913_015024_000000382040_00404_18494_6710.N1	13-SEP-2005 01:50:24	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	18494	No
18	GOM_NL__2PRFIN20050913_015557_000000382040_00404_18494_6711.N1	13-SEP-2005 01:55:57	Straylight	37.500	148	Alp Tuc	2.8780	4100.0	75	18494	No
19	GOM_NL__2PRFIN20050913_015940_000000412040_00404_18494_6712.N1	13-SEP-2005 01:59:40	Straylight	40.500	31	Alp Gru	1.7340	15200.	81	18494	No
20	GOM_NL__2PRFIN20050913_020227_000000372040_00404_18494_6713.N1	13-SEP-2005 02:02:27	Straylight	36.500	172	Gam Gru	3.0030	13100.	73	18494	No
21	GOM_NL__2PRFIN20050913_020824_000000412040_00404_18494_6714.N1	13-SEP-2005 02:08:24	Twilight_and_stray	40.500	142	49Del Cap	2.8500	8900.0	81	18494	No
22	GOM_NL__2PRFIN20050913_021129_000000372040_00404_18494_6715.N1	13-SEP-2005 02:11:29	Bright	37.000	154	22Bet Aqr	2.8990	5700.0	74	18494	No
23	GOM_NL__2PRFIN20050913_021540_000000382040_00404_18494_6716.N1	13-SEP-2005 02:15:40	Bright	38.000	61	8Eps Peg	2.1000	3900.0	76	18494	No
24	GOM_NL__2PRFIN20050913_022253_000000382040_00404_18494_6717.N1	13-SEP-2005 02:22:53	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	18494	No
25	GOM_NL__2PRFIN20050913_022457_000000352040_00404_18494_6718.N1	13-SEP-2005 02:24:57	Bright	35.000	66	37Gam Cyg	2.2080	5900.0	70	18494	No
26	GOM_NL__2PRFIN20050913_022701_000000342040_00404_18494_6719.N1	13-SEP-2005 02:27:01	Bright	34.000	144	18Del Cyg	2.8600	11000.	68	18494	No
27	GOM_NL__2PRFIN20050913_023855_000000362040_00404_18494_6720.N1	13-SEP-2005 02:38:55	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	18494	No
28	GOM_NL__2PRFIN20050913_024522_000000352040_00404_18494_6721.N1	13-SEP-2005 02:45:22	Bright	34.500	36	50Alp UMa	1.8000	6300.0	69	18494	No
29	GOM_NL__2PRFIN20050913_024648_000000522040_00404_18494_6722.N1	13-SEP-2005 02:46:48	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	18494	No
30	GOM_NL__2PRFIN20050913_031536_000000412040_00404_18494_6723.N1	13-SEP-2005 03:15:36	Dark	41.000	65	Lam Vel	2.2040	4400.0	82	18494	No
31	GOM_NL__2PRFIN20050913_031853_000000392040_00404_18494_6724.N1	13-SEP-2005 03:18:53	Dark	38.500	46	Del Vel	1.9540	10600.	77	18494	No
32	GOM_NL__2PRFIN20050913_032023_000000492040_00404_18494_6725.N1	13-SEP-2005 03:20:23	Dark	48.500	41	Eps Car	1.8600	4100.0	97	18494	No
33	GOM_NL__2PRFIN20050913_033100_000000382040_00405_18495_6711.N1	13-SEP-2005 03:31:00	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	18495	No
34	GOM_NL__2PRFIN20050913_033633_000000402040_00405_18495_6712.N1	13-SEP-2005 03:36:33	Straylight	40.000	148	Alp Tuc	2.8780	4100.0	80	18495	No
35	GOM_NL__2PRFIN20050913_034016_000000392040_00405_18495_6713.N1	13-SEP-2005 03:40:16	Straylight	39.000	31	Alp Gru	1.7340	15200.	78	18495	No
36	GOM_NL__2PRFIN20050913_034304_000000382040_00405_18495_6714.N1	13-SEP-2005 03:43:04	Straylight	38.000	172	Gam Gru	3.0030	13100.	76	18495	No
37	GOM_NL__2PRFIN20050913_034900_000000382040_00405_18495_6715.N1	13-SEP-2005 03:49:00	Twilight_and_stray	38.000	142	49Del Cap	2.8500	8900.0	76	18495	No
38	GOM_NL__2PRFIN20050913_035205_000000362040_00405_18495_6716.N1	13-SEP-2005 03:52:05	Bright	36.000	154	22Bet Aqr	2.8990	5700.0	72	18495	No
39	GOM_NL__2PRFIN20050913_035616_000000362040_00405_18495_6717.N1	13-SEP-2005 03:56:16	Bright	36.000	61	8Eps Peg	2.1000	3900.0	72	18495	No
40	GOM_NL__2PRFIN20050913_040329_000000382040_00405_18495_6718.N1	13-SEP-2005 04:03:29	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	18495	No
41	GOM_NL__2PRFIN20050913_040533_000000362040_00405_18495_6719.N1	13-SEP-2005 04:05:33	Bright	36.000	66	37Gam Cyg	2.2080	5900.0	72	18495	No
42	GOM_NL__2PRFIN20050913_040737_000000362040_00405_18495_6720.N1	13-SEP-2005 04:07:37	Bright	35.500	144	18Del Cyg	2.8600	11000.	71	18495	No

220	GOM_NL__2PRFIN20050913_225236_000000372040_00416_18506_6743.N1	13-SEP-2005 22:52:36	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	18506	No
221	GOM_NL__2PRFIN20050913_225402_000000332040_00416_18506_6744.N1	13-SEP-2005 22:54:02	Bright	32.500	82	48Bet UMa	2.3650	10600.	65	18506	No
222	GOM_NL__2PRFIN20050913_232249_000000472040_00416_18506_6745.N1	13-SEP-2005 23:22:49	Dark	46.500	65	Lam Vel	2.2040	4400.0	93	18506	No
223	GOM_NL__2PRFIN20050913_232606_000000362040_00416_18506_6746.N1	13-SEP-2005 23:26:06	Dark	35.500	46	Del Vel	1.9540	10600.	71	18506	No
224	GOM_NL__2PRFIN20050913_232736_000000472040_00416_18506_6747.N1	13-SEP-2005 23:27:36	Dark	46.500	41	Eps Car	1.8600	4100.0	93	18506	No
225	GOM_NL__2PRFIN20050913_233813_000000372040_00417_18507_6732.N1	13-SEP-2005 23:38:13	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	18507	No
226	GOM_NL__2PRFIN20050913_234347_000000442040_00417_18507_6733.N1	13-SEP-2005 23:43:47	Straylight	43.500	148	Alp Tuc	2.8780	4100.0	87	18507	No
227	GOM_NL__2PRFIN20050913_234730_000000382040_00417_18507_6734.N1	13-SEP-2005 23:47:30	Straylight	37.500	31	Alp Gru	1.7340	15200.	75	18507	No
228	GOM_NL__2PRFIN20050913_235017_000000382040_00417_18507_6735.N1	13-SEP-2005 23:50:17	Straylight	37.500	172	Gam Gru	3.0030	13100.	75	18507	No
229	GOM_NL__2PRFIN20050913_235614_000000372040_00417_18507_6736.N1	13-SEP-2005 23:56:14	Twilight_stray	36.500	142	49Del Cap	2.8500	8900.0	73	18507	No
230	GOM_NL__2PRFIN20050913_235918_000000372040_00417_18507_6737.N1	13-SEP-2005 23:59:18	Bright	37.000	154	22Bet Aqr	2.8990	5700.0	74	18507	No

3. Quality information per product

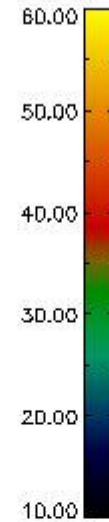
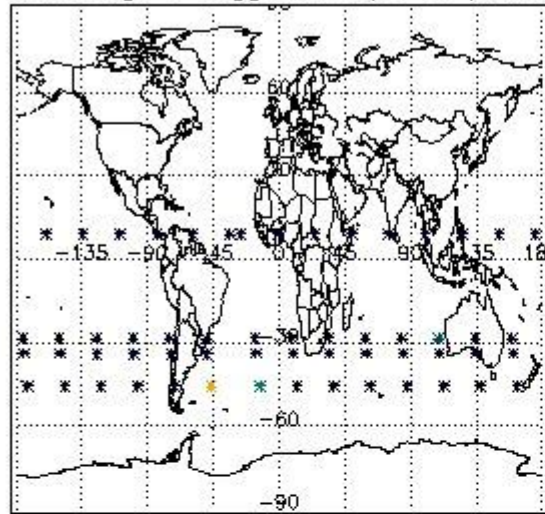
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

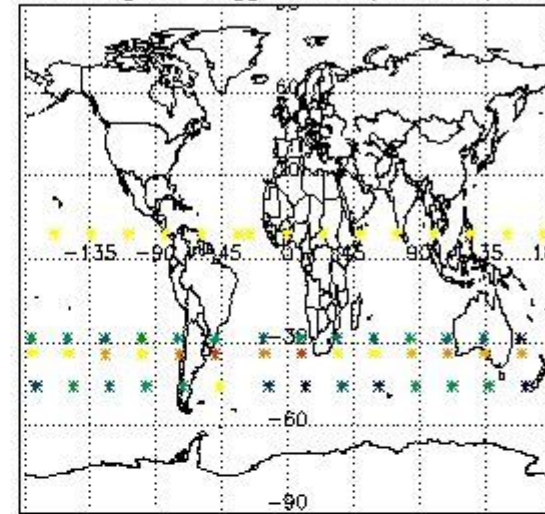


3.2 Plot quality information per product (world map)

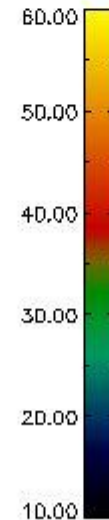
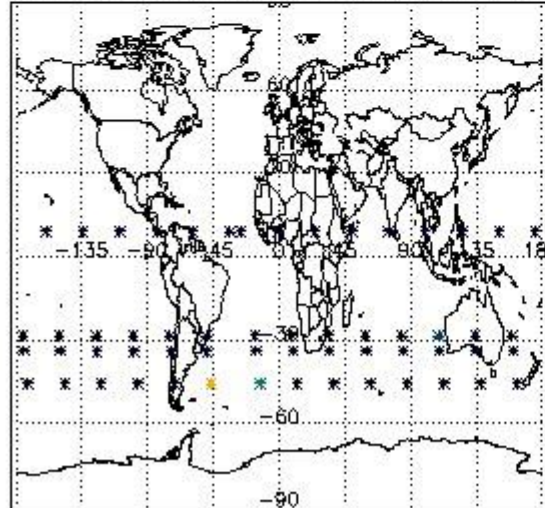
Percentage of flagged data per O3 profile



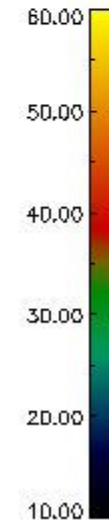
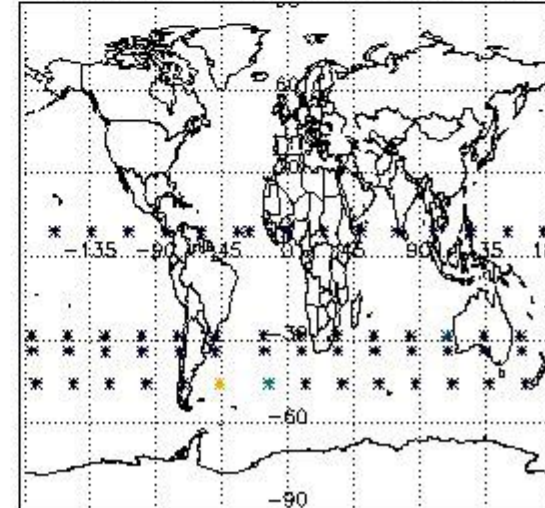
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

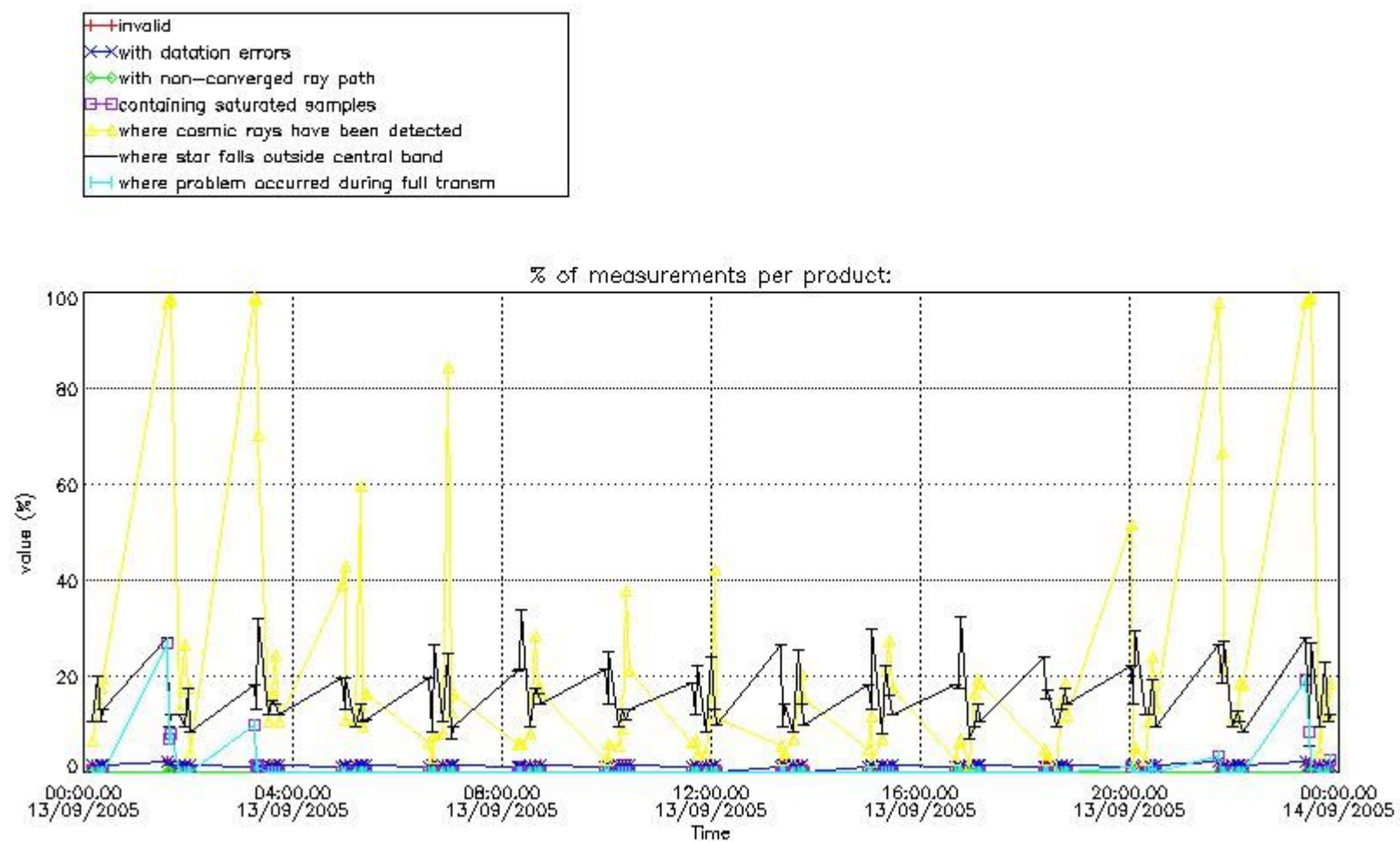


4. Level 1 quality information per product

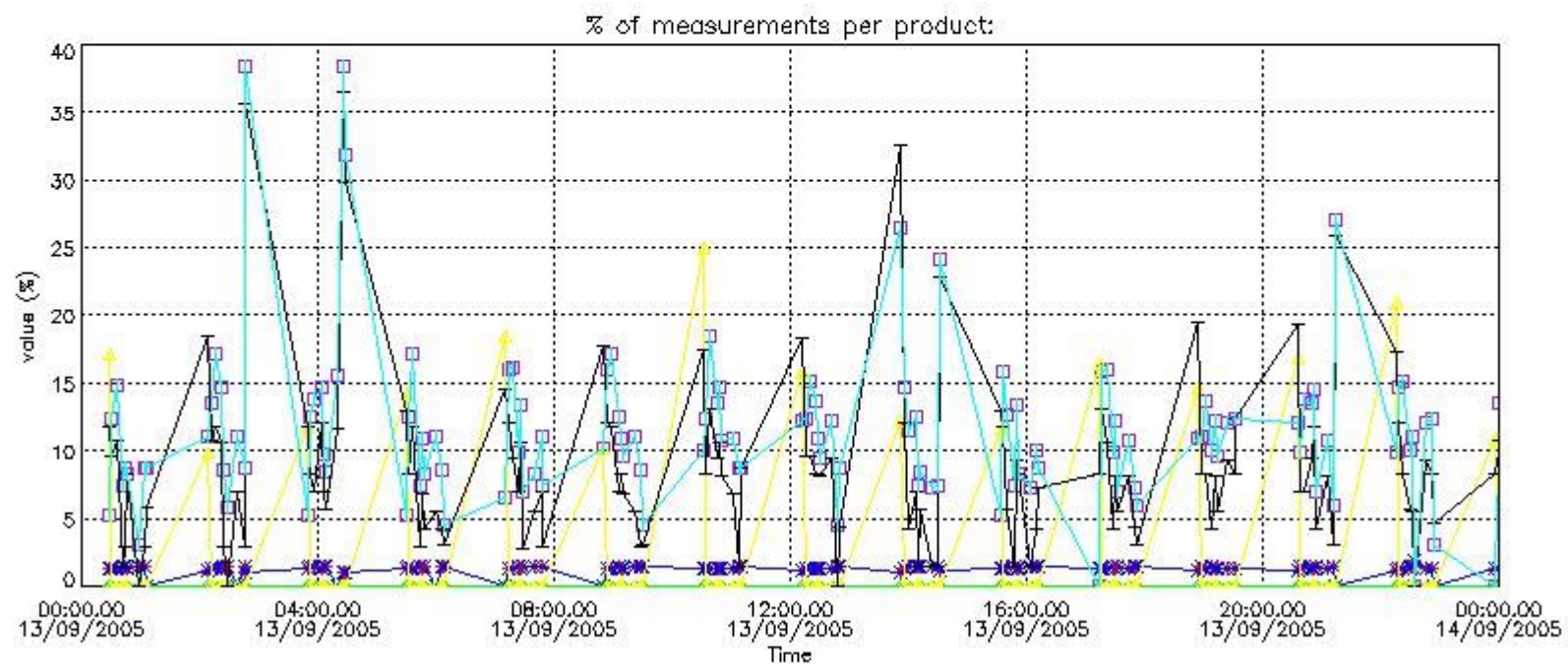
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



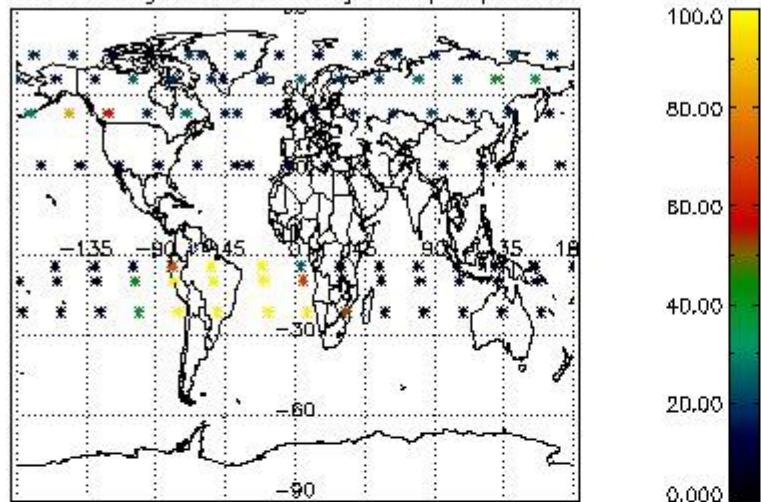
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



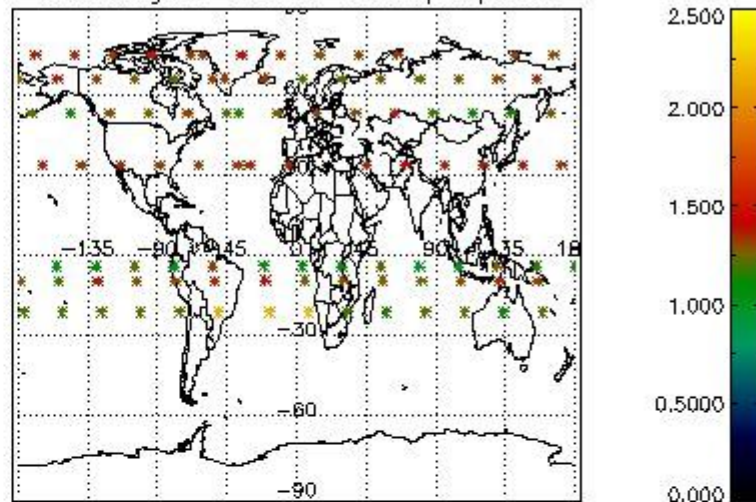
4.2 Plot quality information per product coming from level 1b processing (world map)

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

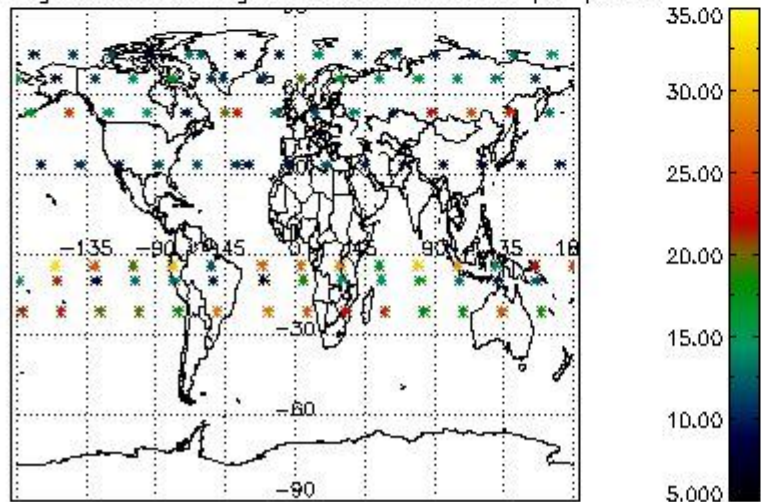
Percentage of cosmic ray hits per profile



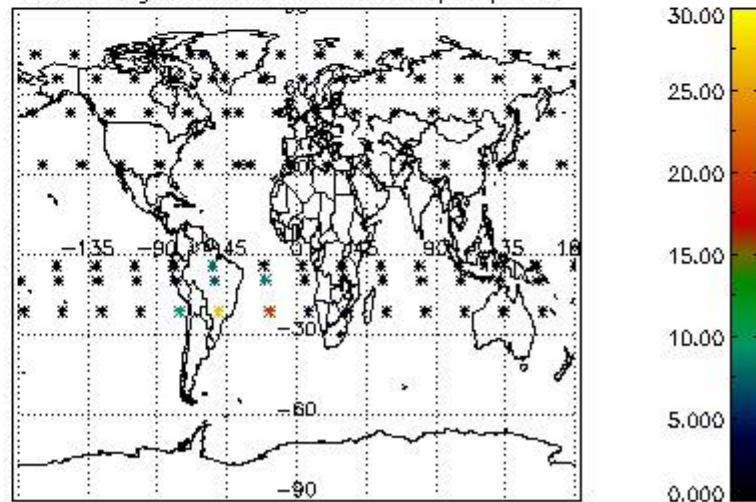
Percentage of datation errors per profile



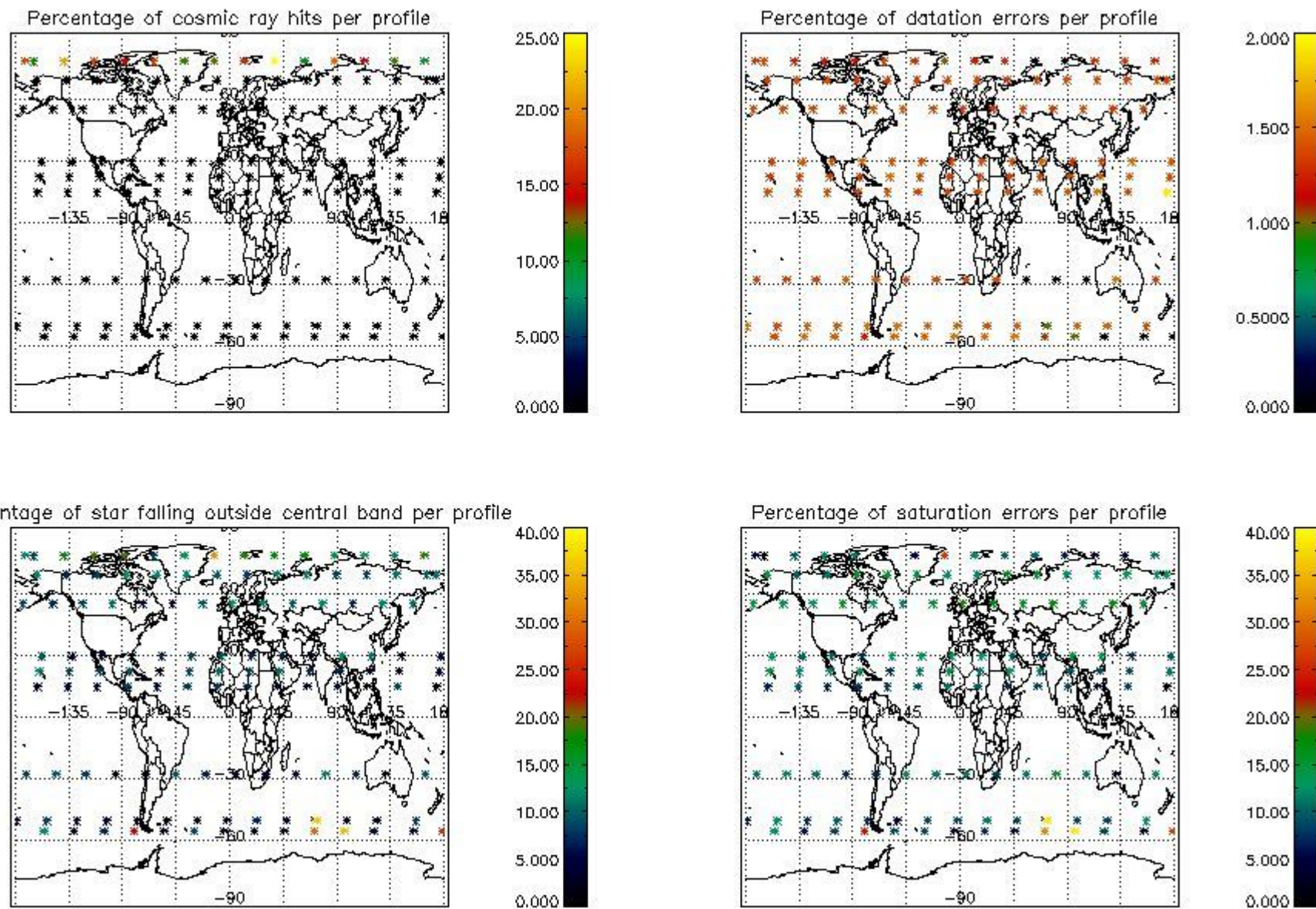
Percentage of star falling outside central band per profile



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

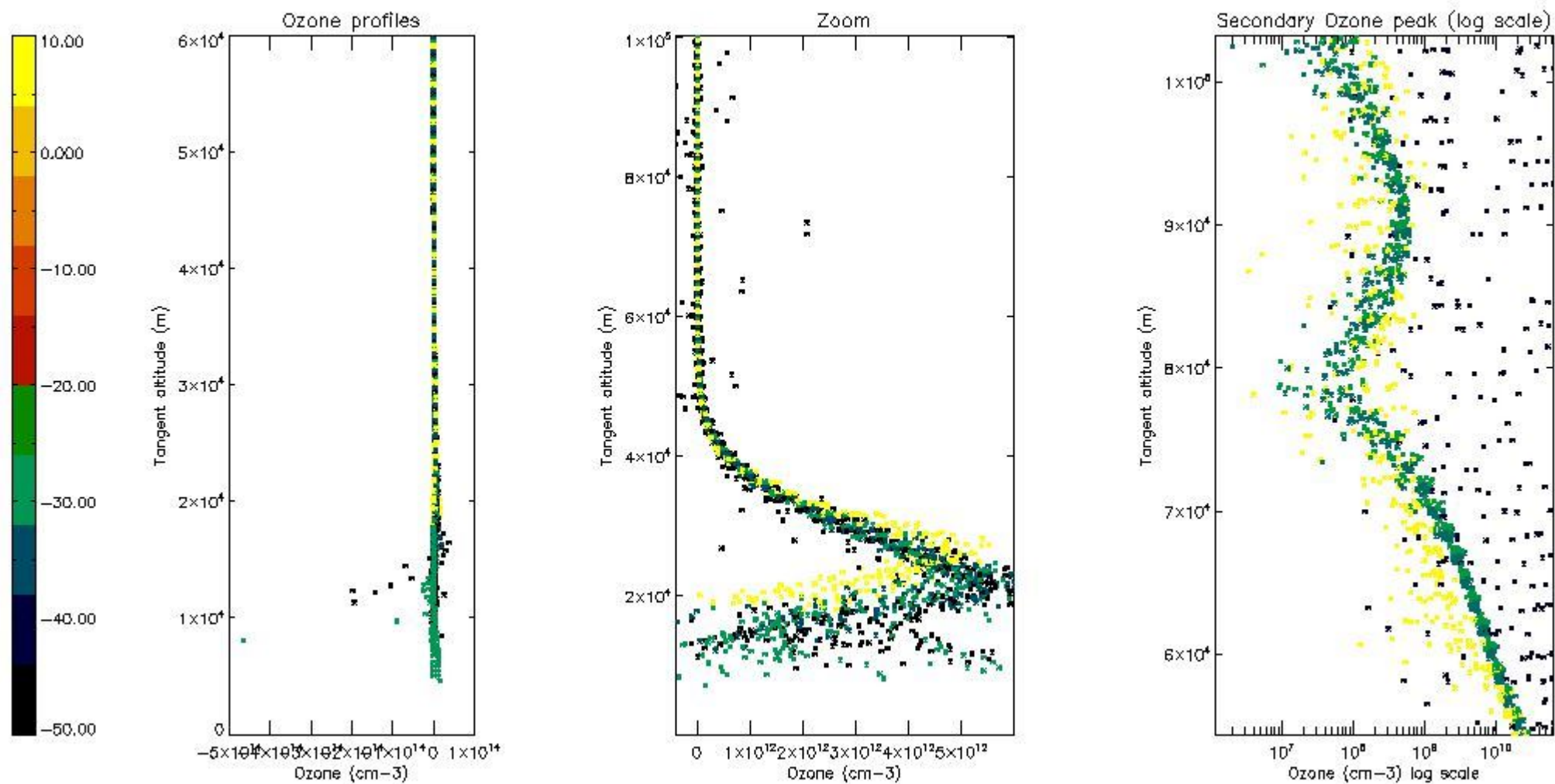
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	27
STD < 20	12

STD < 10	9
STD < 5	3

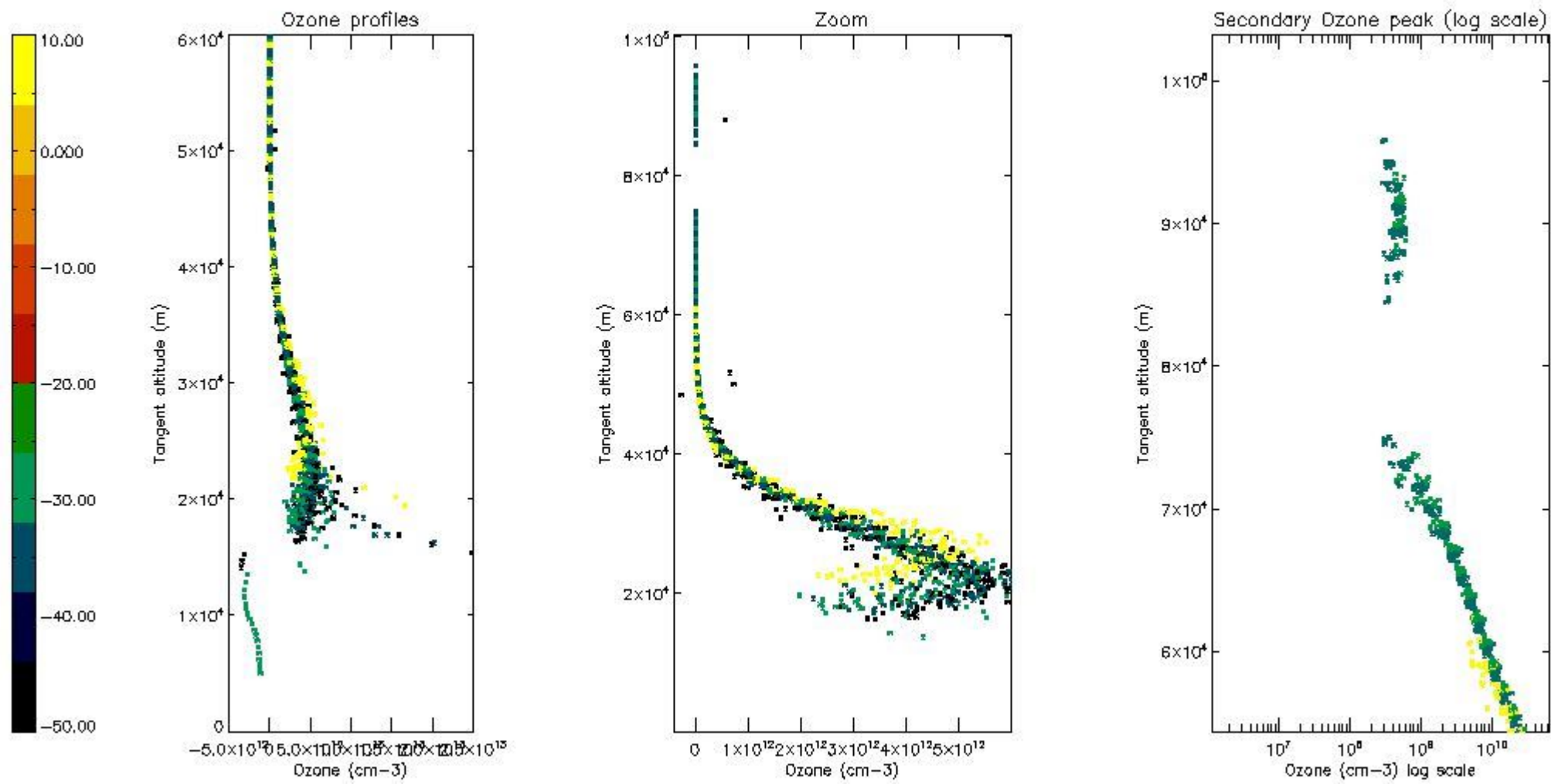
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



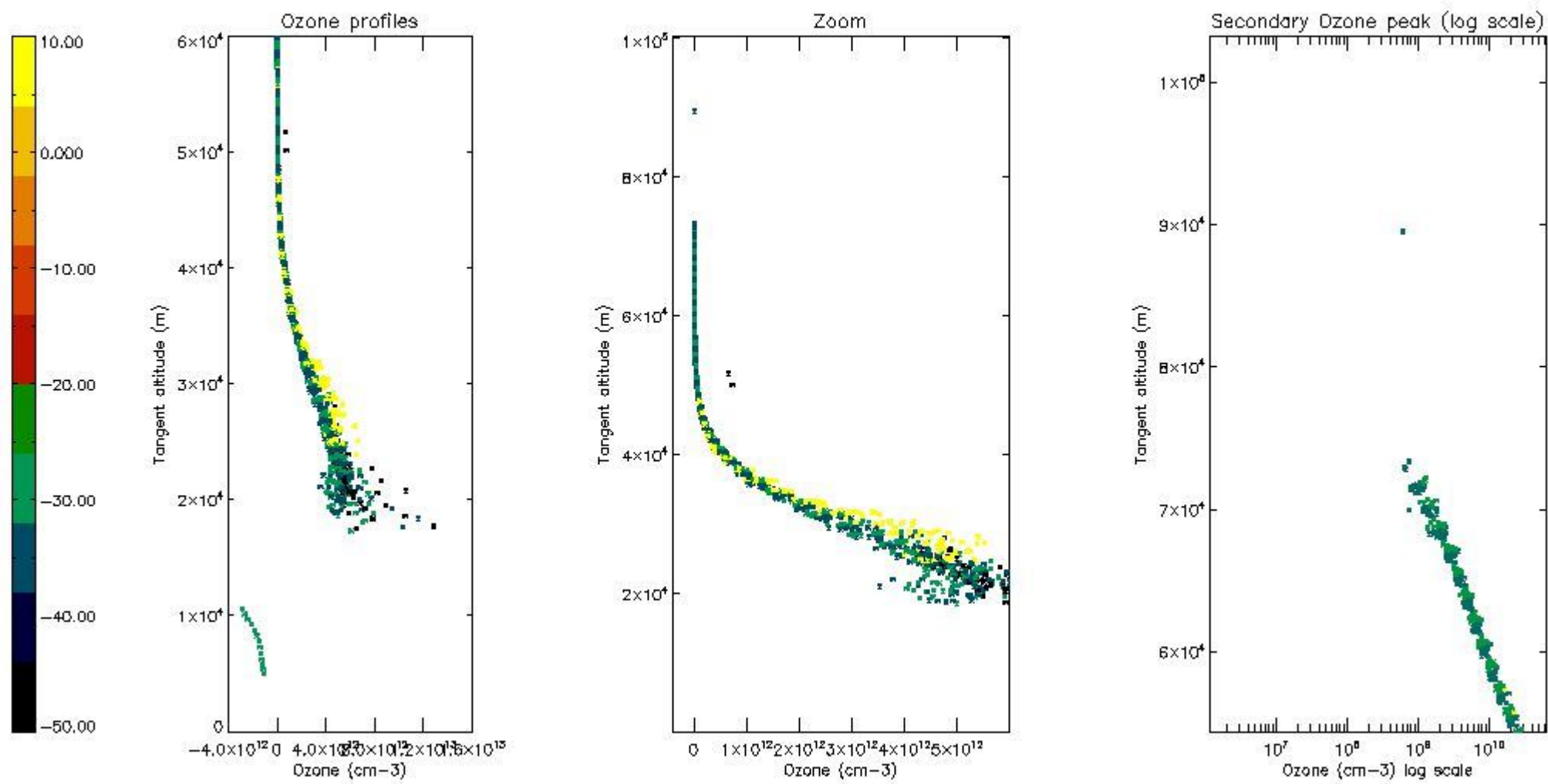
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



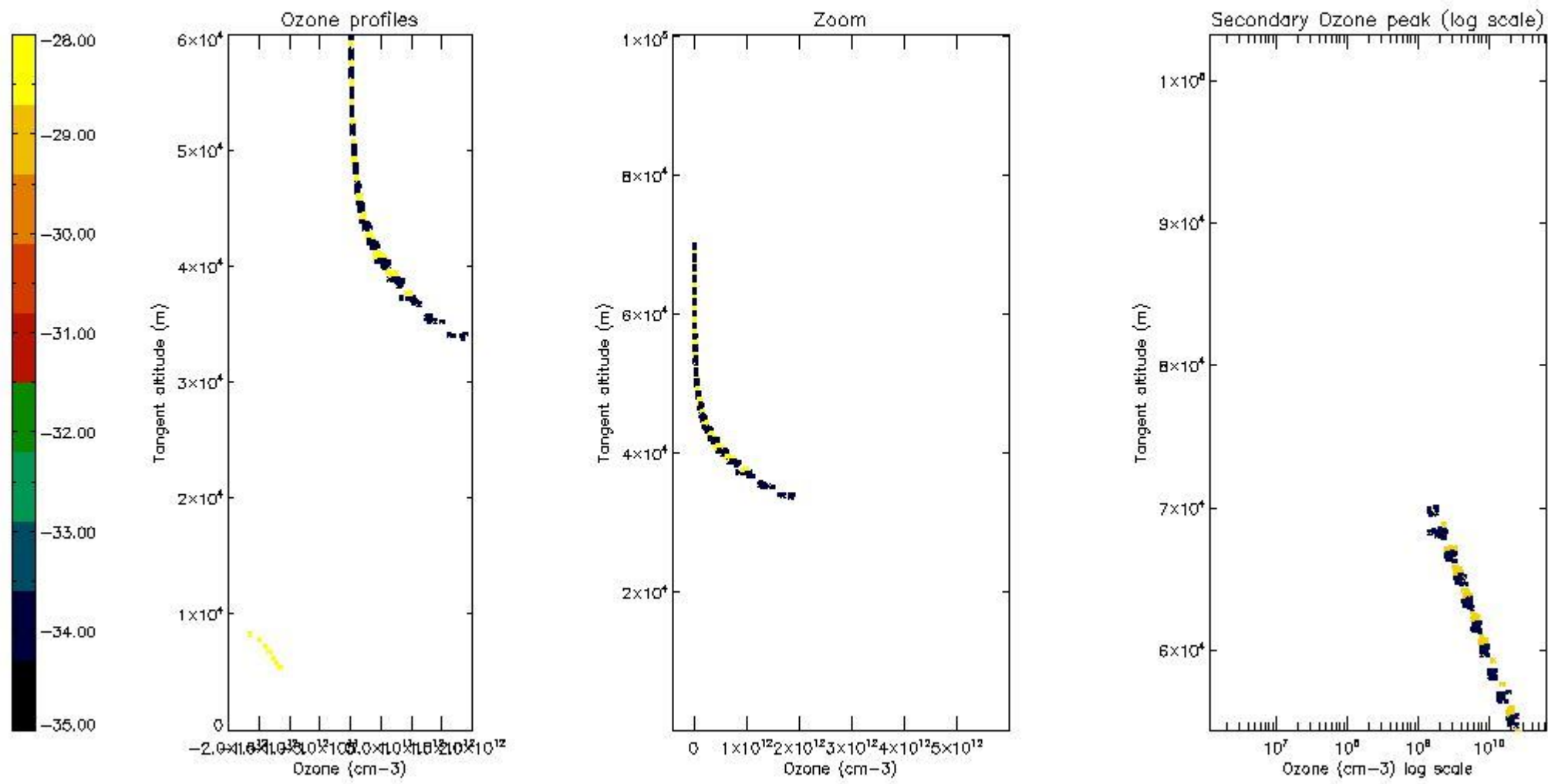
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



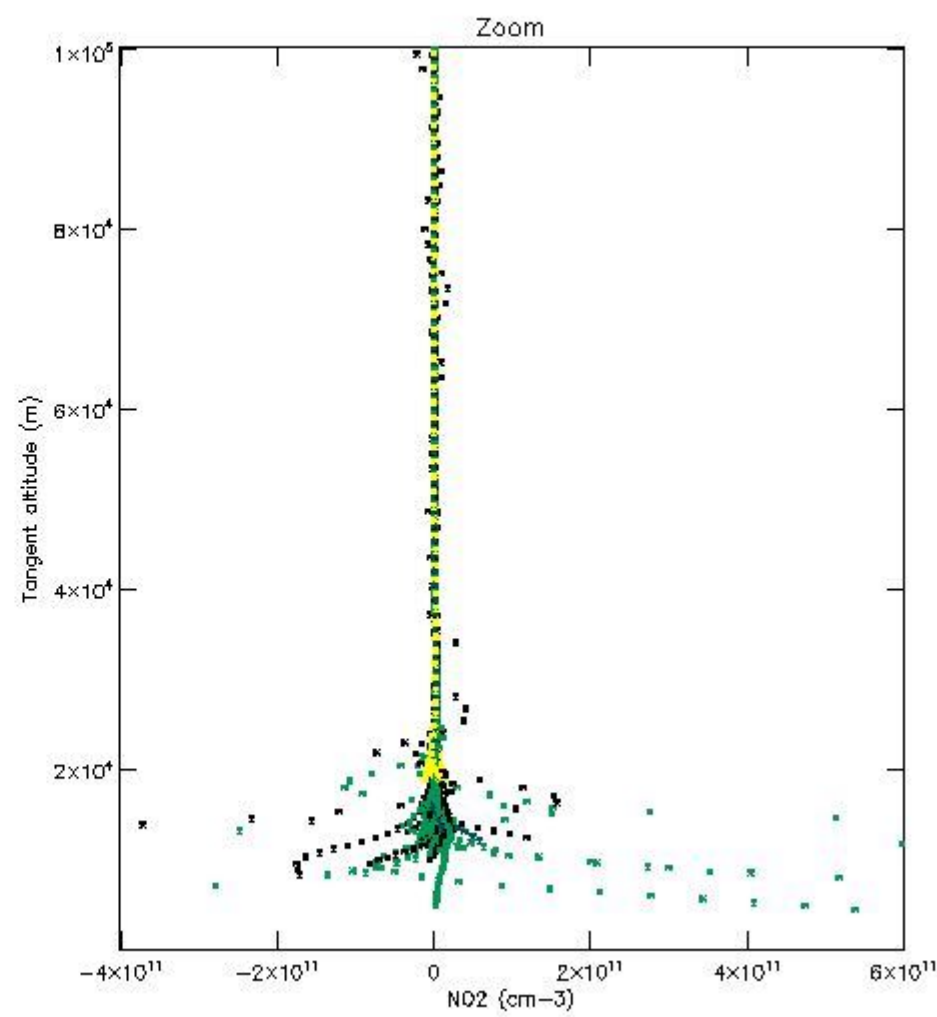
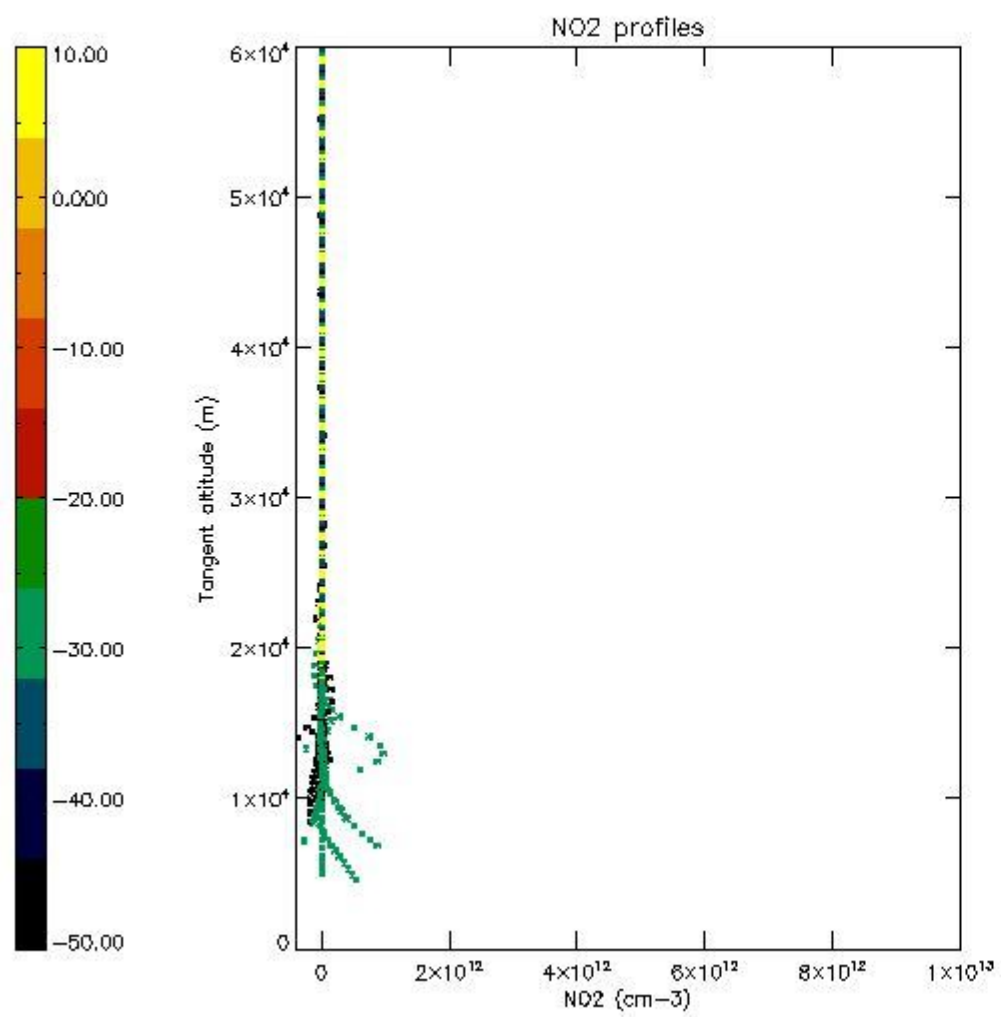
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



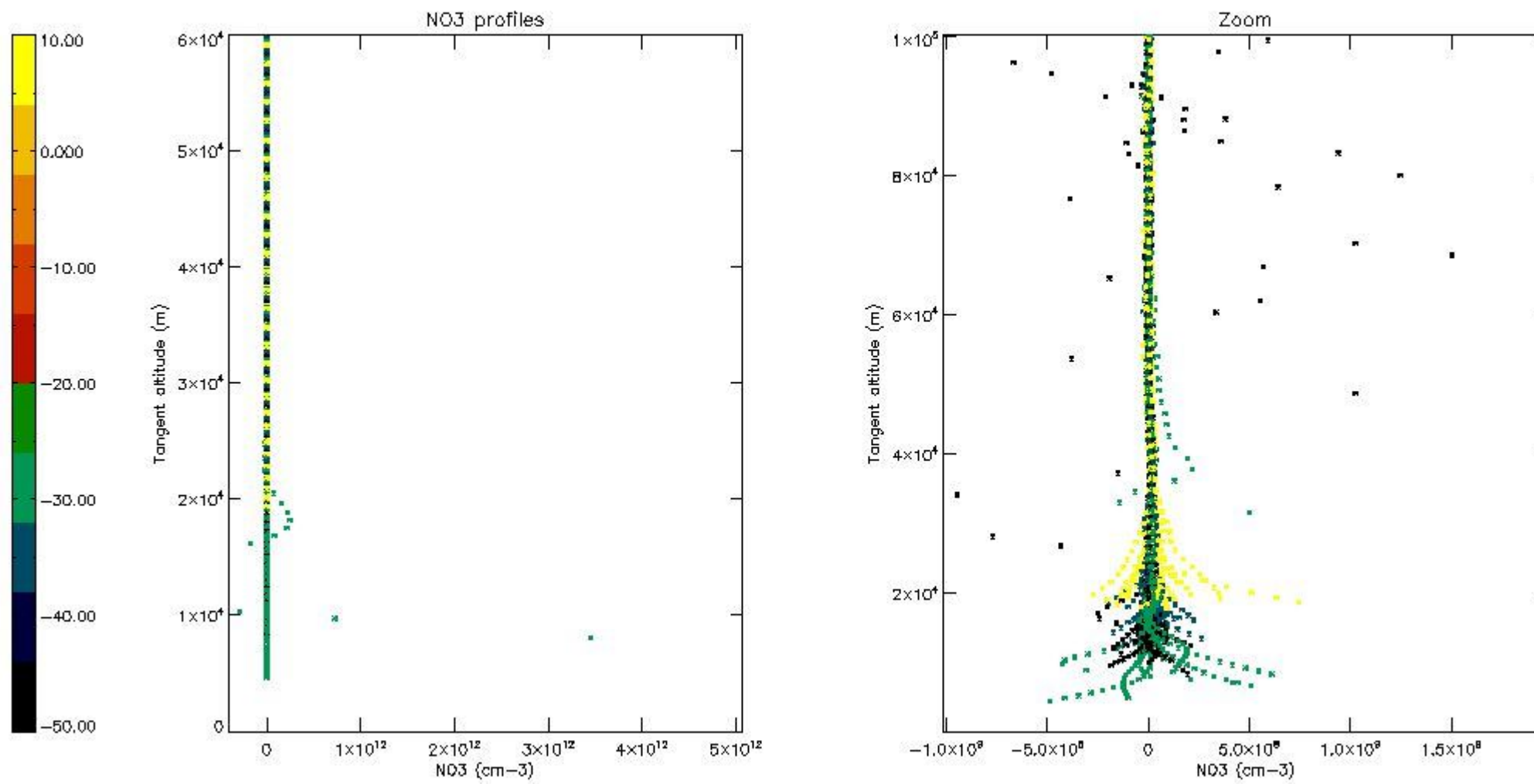
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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	13-SEP-2005 00:09:48
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	13-SEP-2005 00:09:48
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	13-SEP-2005 00:09:48

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

[2. Summary of processed GOM_NL_2P products](#)

[3. Level 2 Quality information per product](#)

[3.1 Plot of level 2 quality information per product \(time dependant\)](#)

[3.2 Plot of level 2 quality information per product \(world map\)](#)

[4. Level 1 Quality information per product \(stored on level 2 products\)](#)

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

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

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

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

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

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

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

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

[5.2 Plot ozone profiles for all STD \(dark without errors\)](#)

[5.3 Plot ozone profiles where STD < 20% \(dark without errors\)](#)

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

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

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

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

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

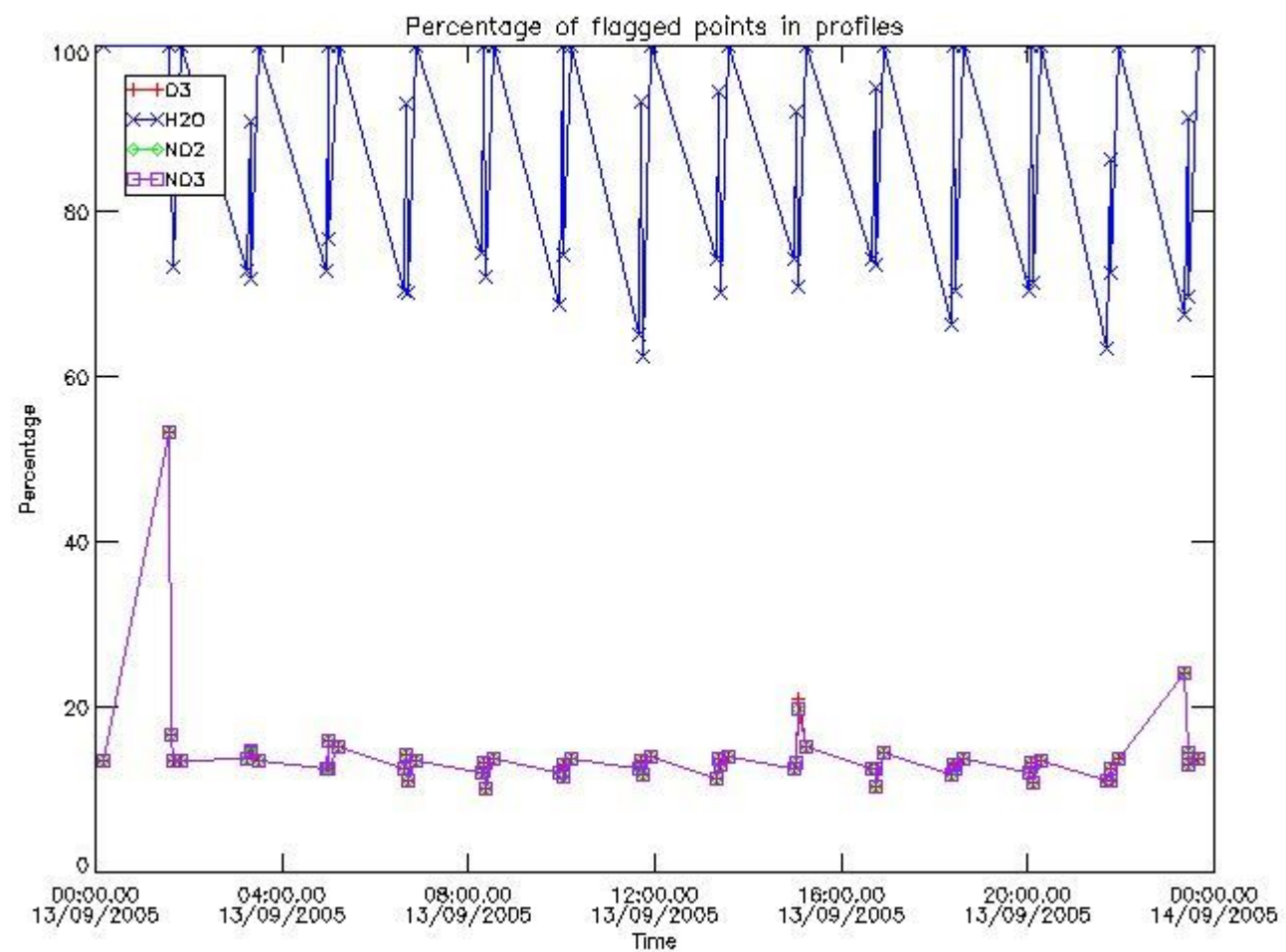
[6. Auxiliary Data Files used for the production reported in section 2](#)

220	GOM_NL__2PRFIN20050913_225236_000000372040_00416_18506_6743.N1	13-SEP-2005 22:52:36	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	18506	No
221	GOM_NL__2PRFIN20050913_225402_000000332040_00416_18506_6744.N1	13-SEP-2005 22:54:02	Bright	32.500	82	48Bet UMa	2.3650	10600.	65	18506	No
222	GOM_NL__2PRFIN20050913_232249_000000472040_00416_18506_6745.N1	13-SEP-2005 23:22:49	Dark	46.500	65	Lam Vel	2.2040	4400.0	93	18506	No
223	GOM_NL__2PRFIN20050913_232606_000000362040_00416_18506_6746.N1	13-SEP-2005 23:26:06	Dark	35.500	46	Del Vel	1.9540	10600.	71	18506	No
224	GOM_NL__2PRFIN20050913_232736_000000472040_00416_18506_6747.N1	13-SEP-2005 23:27:36	Dark	46.500	41	Eps Car	1.8600	4100.0	93	18506	No
225	GOM_NL__2PRFIN20050913_233813_000000372040_00417_18507_6732.N1	13-SEP-2005 23:38:13	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	18507	No
226	GOM_NL__2PRFIN20050913_234347_000000442040_00417_18507_6733.N1	13-SEP-2005 23:43:47	Straylight	43.500	148	Alp Tuc	2.8780	4100.0	87	18507	No
227	GOM_NL__2PRFIN20050913_234730_000000382040_00417_18507_6734.N1	13-SEP-2005 23:47:30	Straylight	37.500	31	Alp Gru	1.7340	15200.	75	18507	No
228	GOM_NL__2PRFIN20050913_235017_000000382040_00417_18507_6735.N1	13-SEP-2005 23:50:17	Straylight	37.500	172	Gam Gru	3.0030	13100.	75	18507	No
229	GOM_NL__2PRFIN20050913_235614_000000372040_00417_18507_6736.N1	13-SEP-2005 23:56:14	Twilight_stray	36.500	142	49Del Cap	2.8500	8900.0	73	18507	No
230	GOM_NL__2PRFIN20050913_235918_000000372040_00417_18507_6737.N1	13-SEP-2005 23:59:18	Bright	37.000	154	22Bet Aqr	2.8990	5700.0	74	18507	No

3. Quality information per product

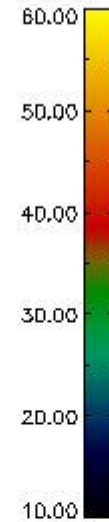
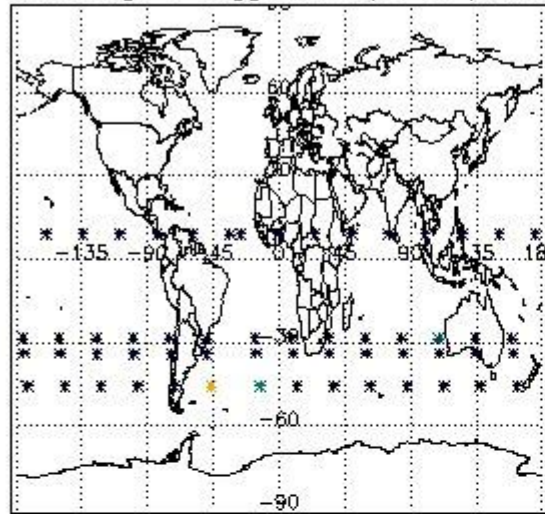
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

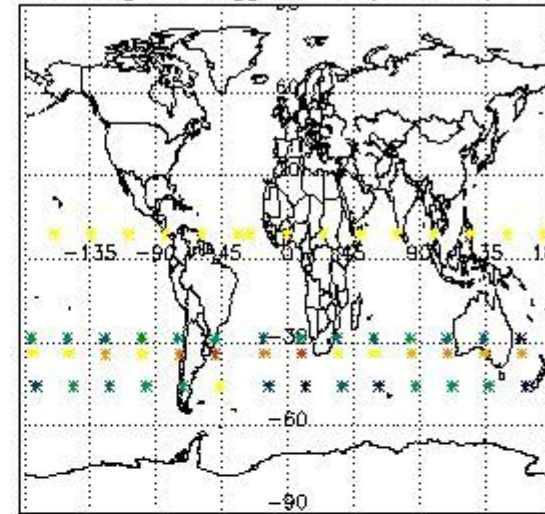


3.2 Plot quality information per product (world map)

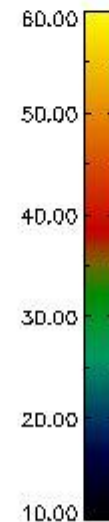
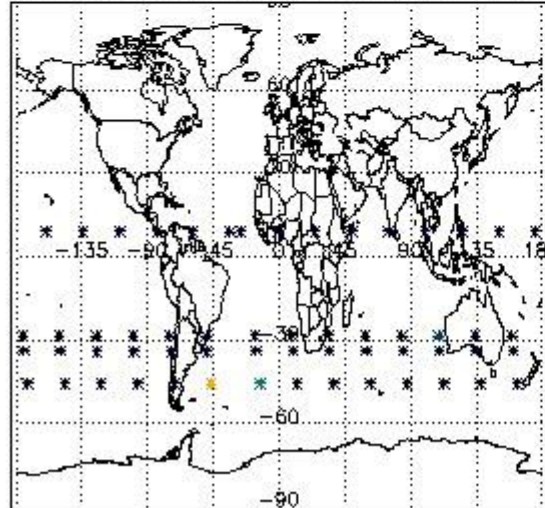
Percentage of flagged data per O3 profile



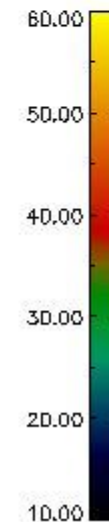
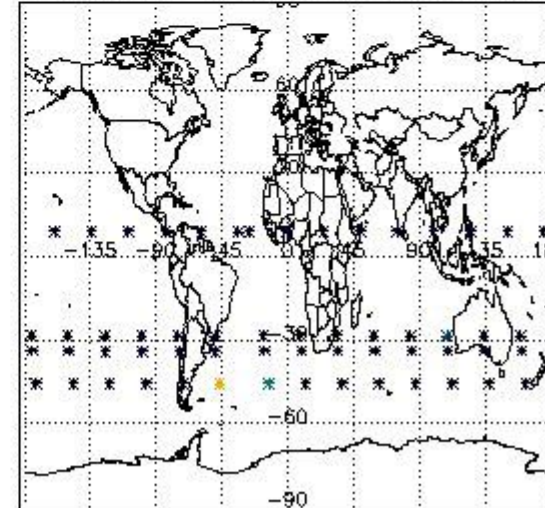
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

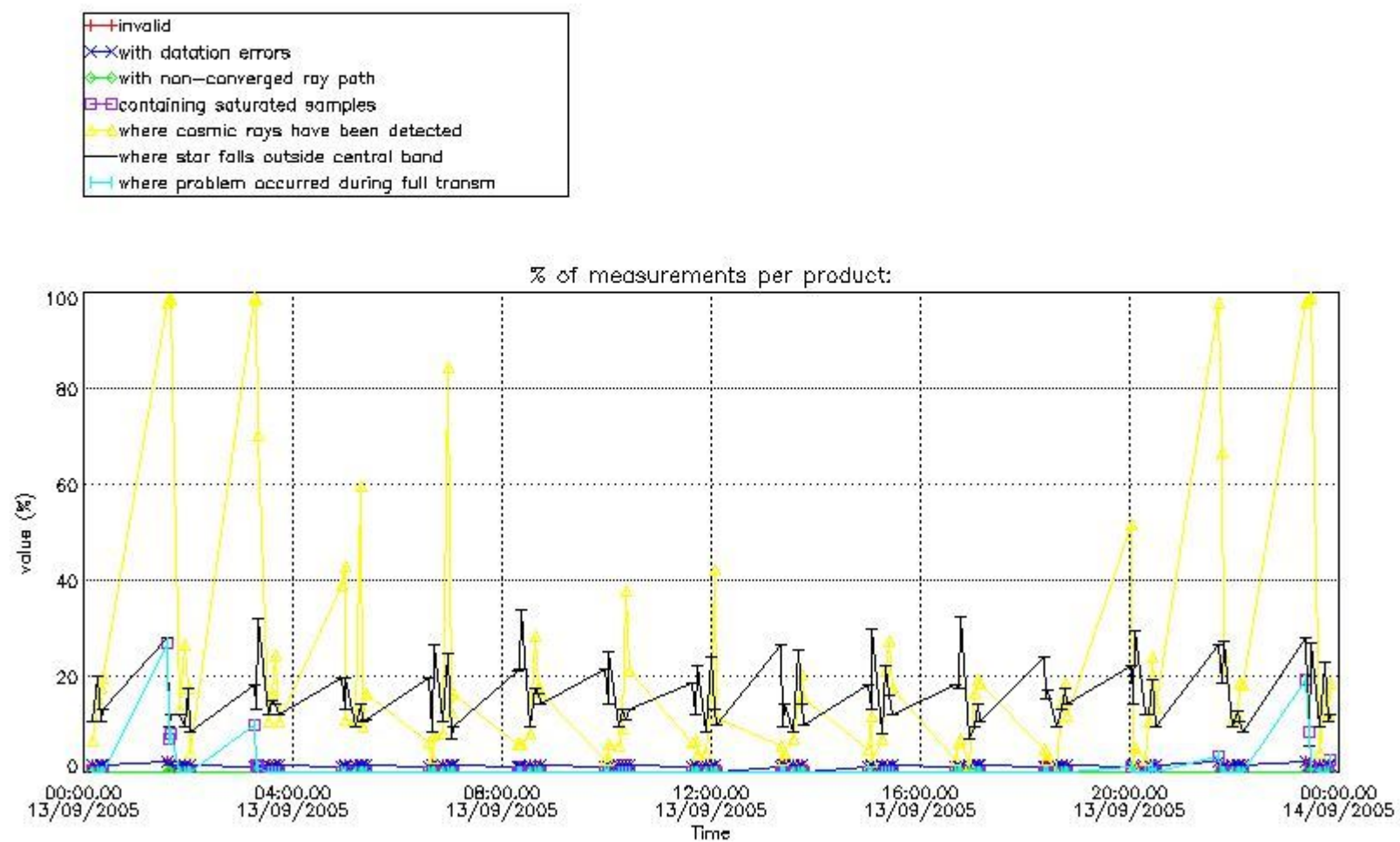


4. Level 1 quality information per product

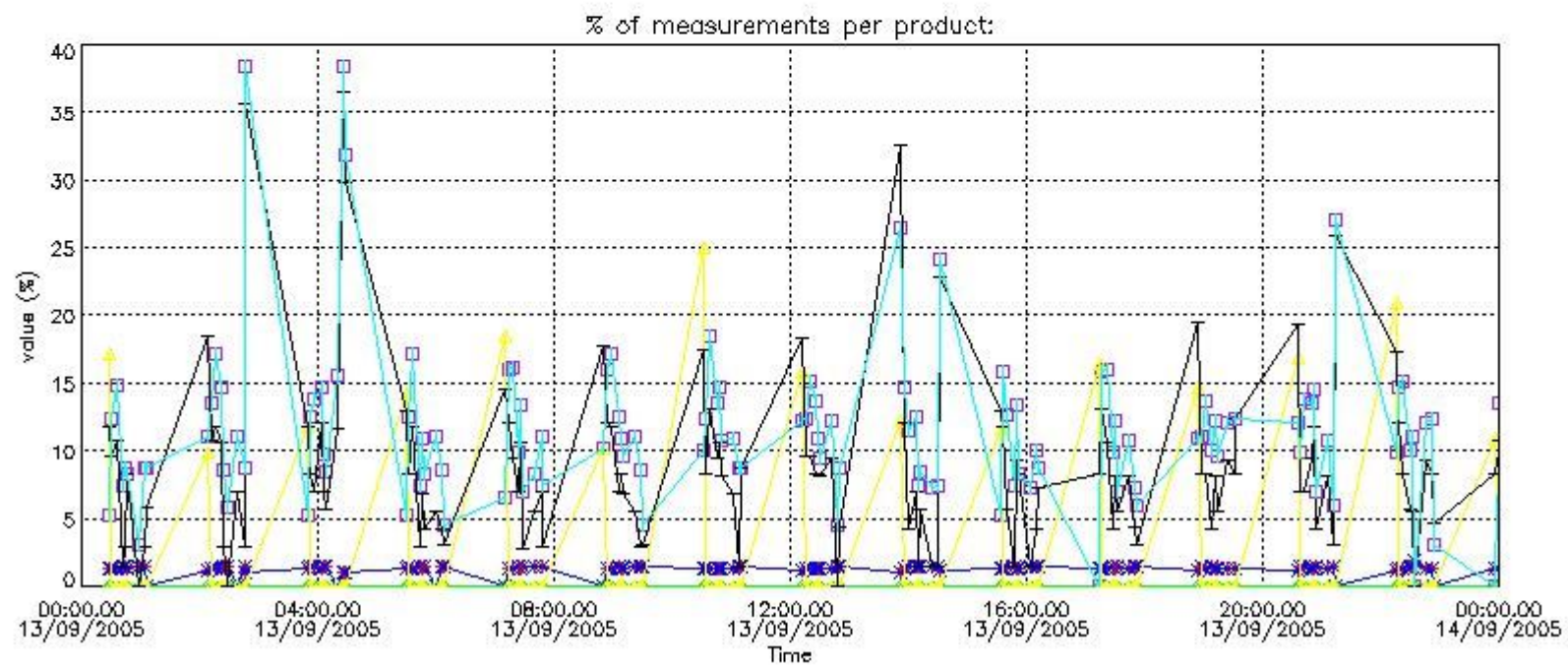
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

4.1 Plot quality information per product (time dependant) coming from level 1b processing

4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes



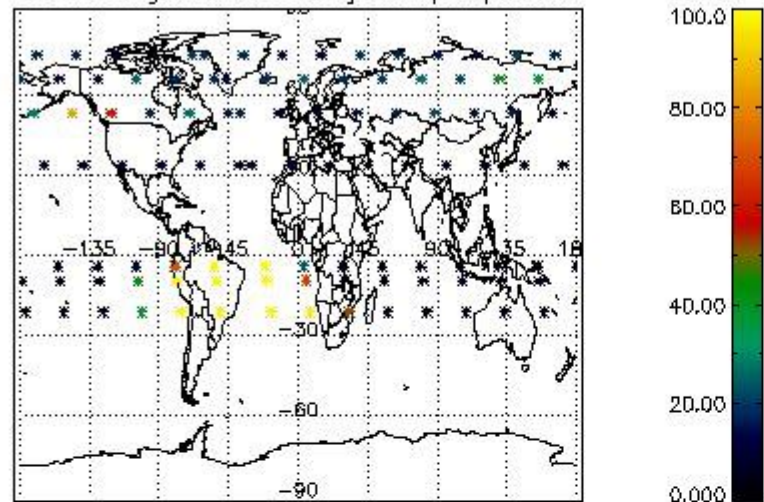
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



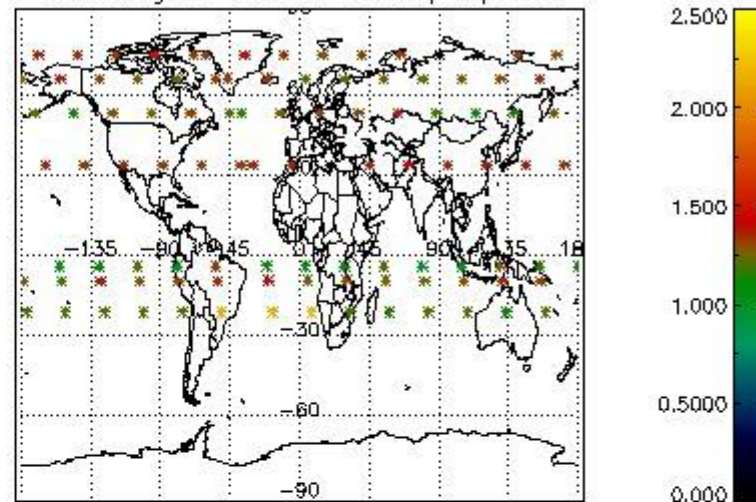
4.2 Plot quality information per product coming from level 1b processing (world map)

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

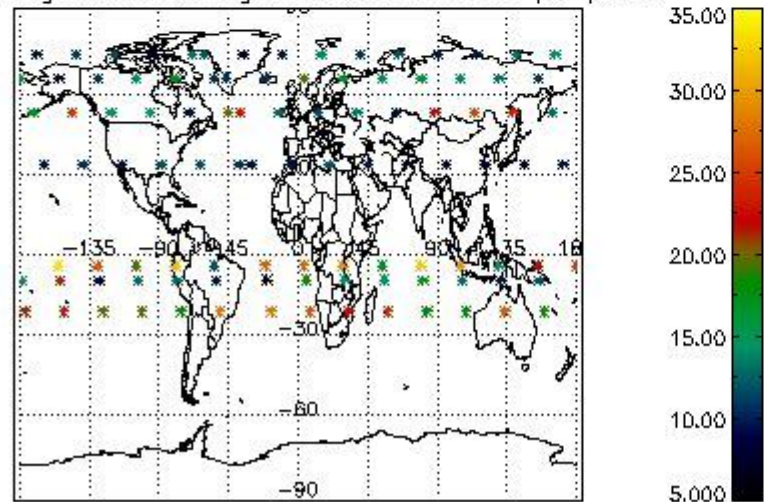
Percentage of cosmic ray hits per profile



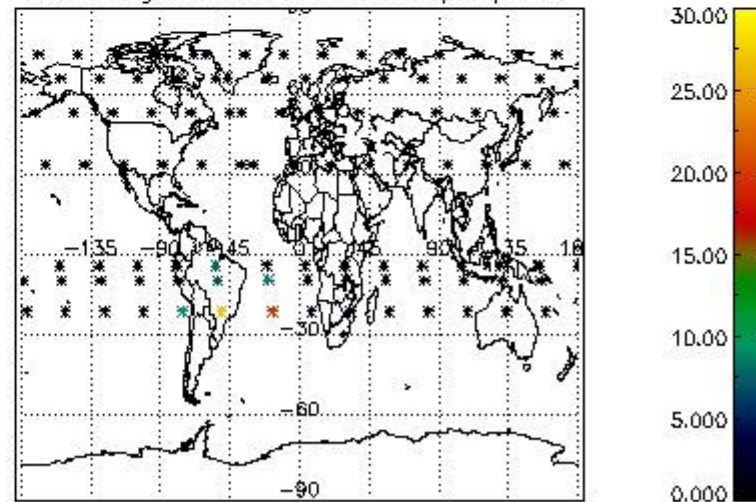
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

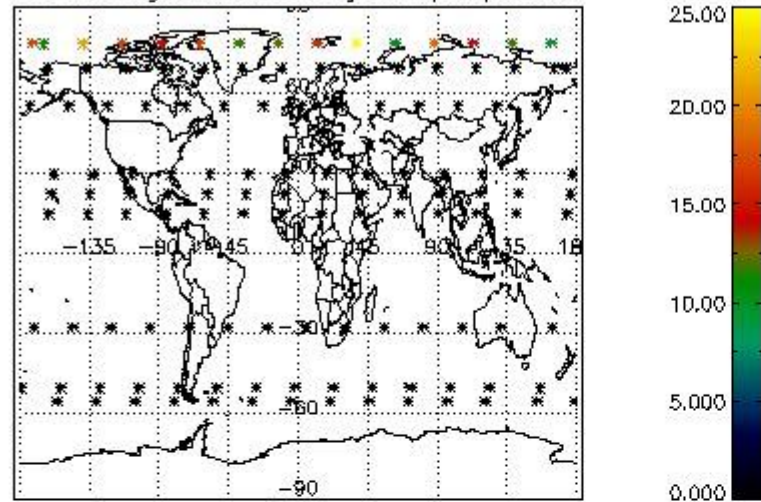


Percentage of saturation errors per profile

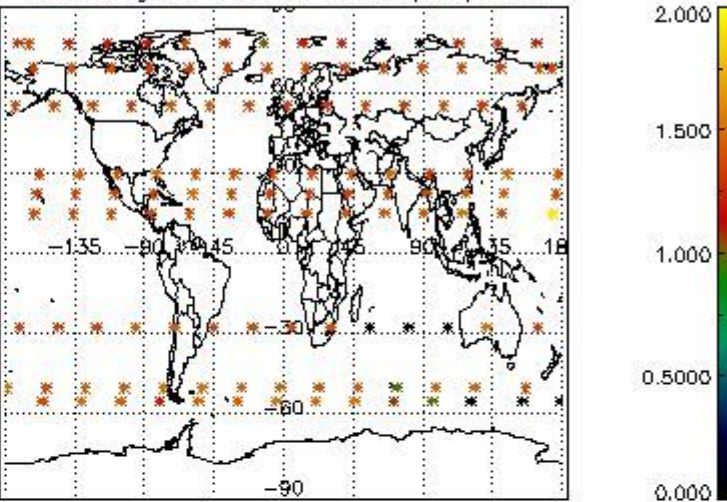


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

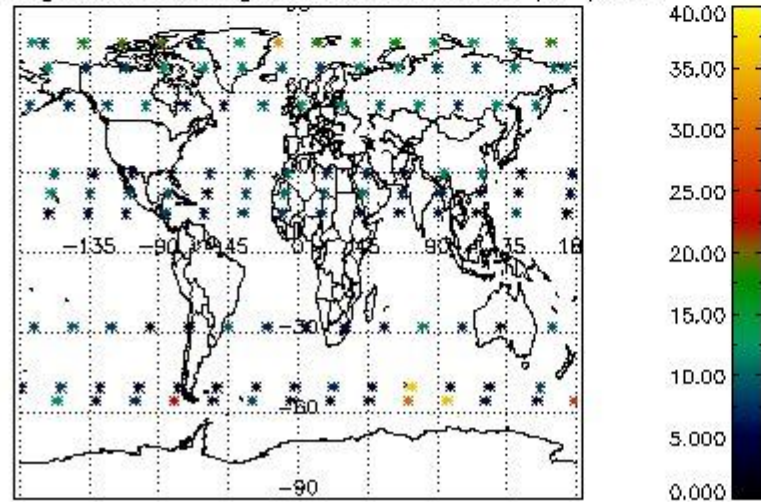
Percentage of cosmic ray hits per profile



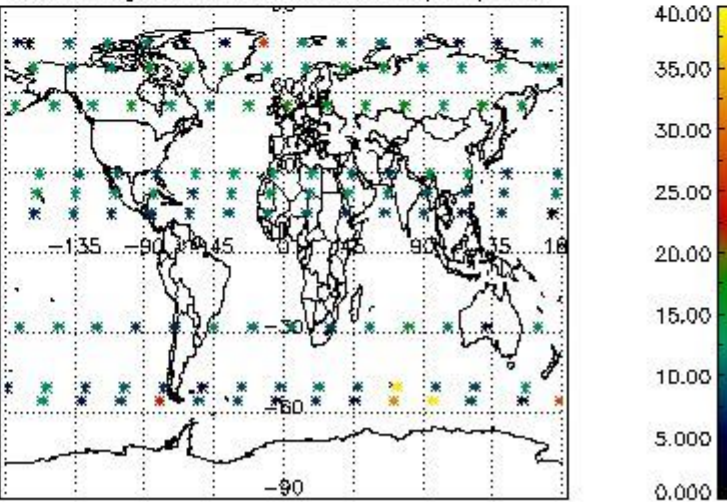
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

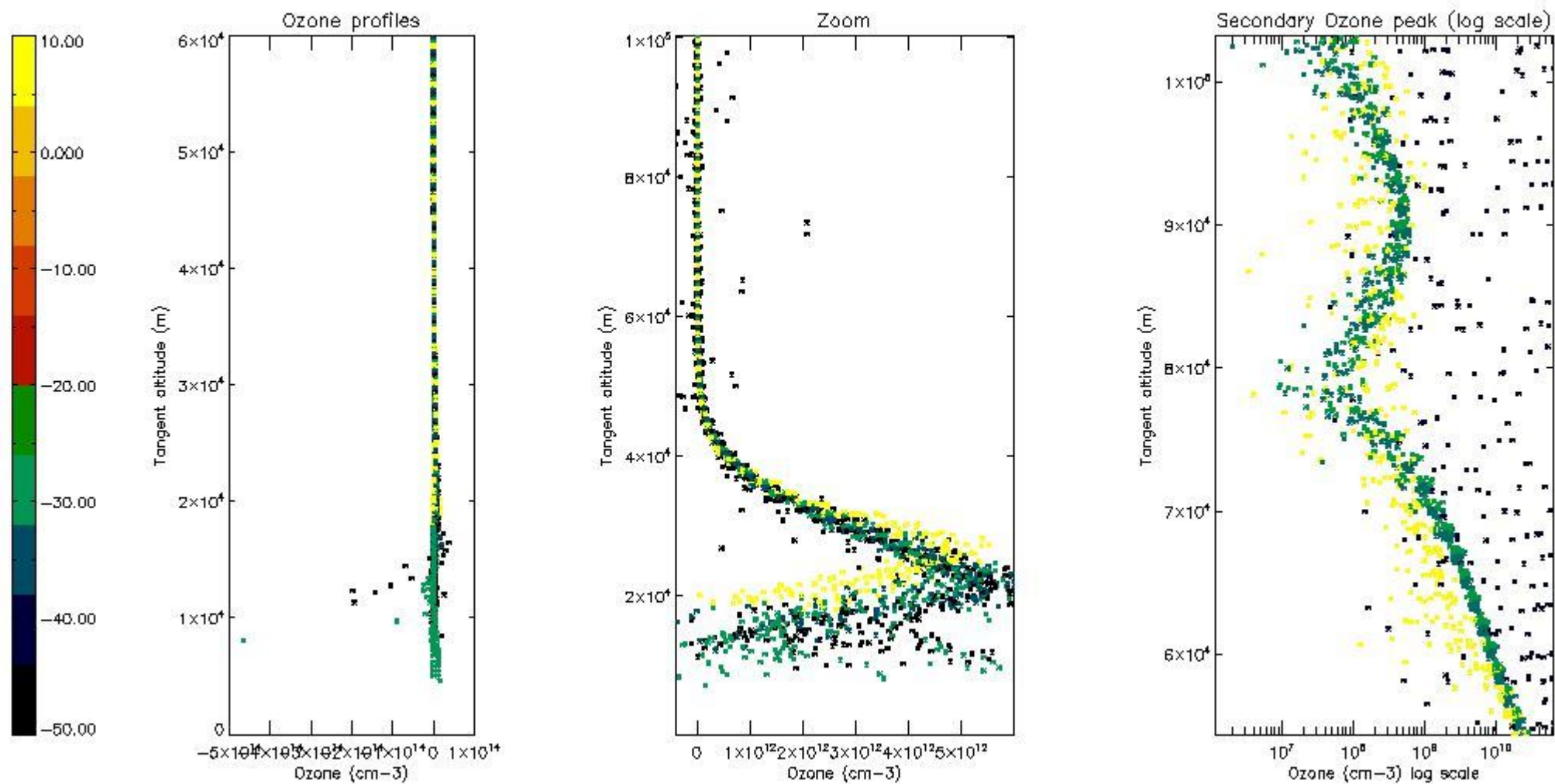
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	27
STD < 20	12

STD < 10	9
STD < 5	3

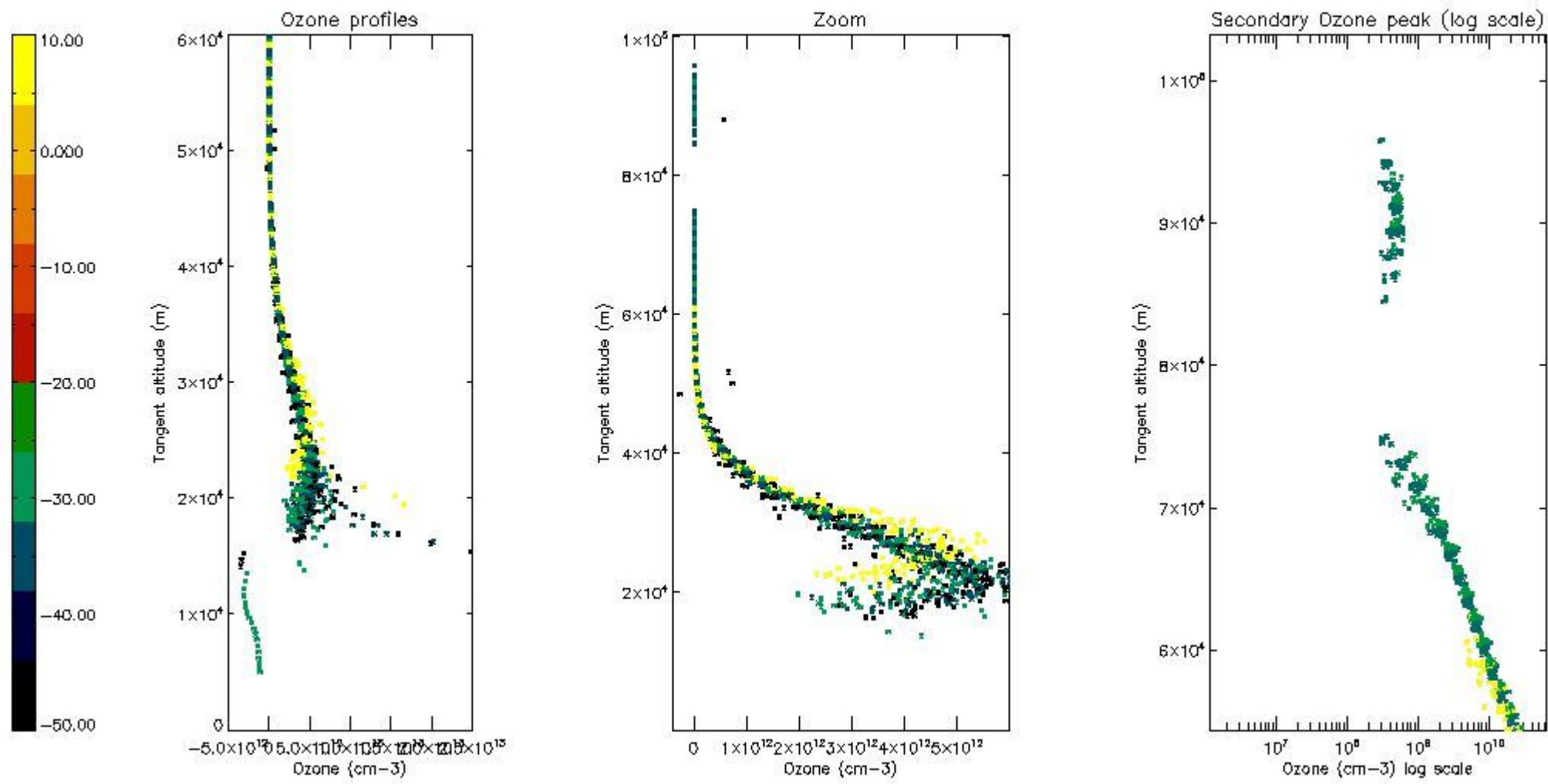
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



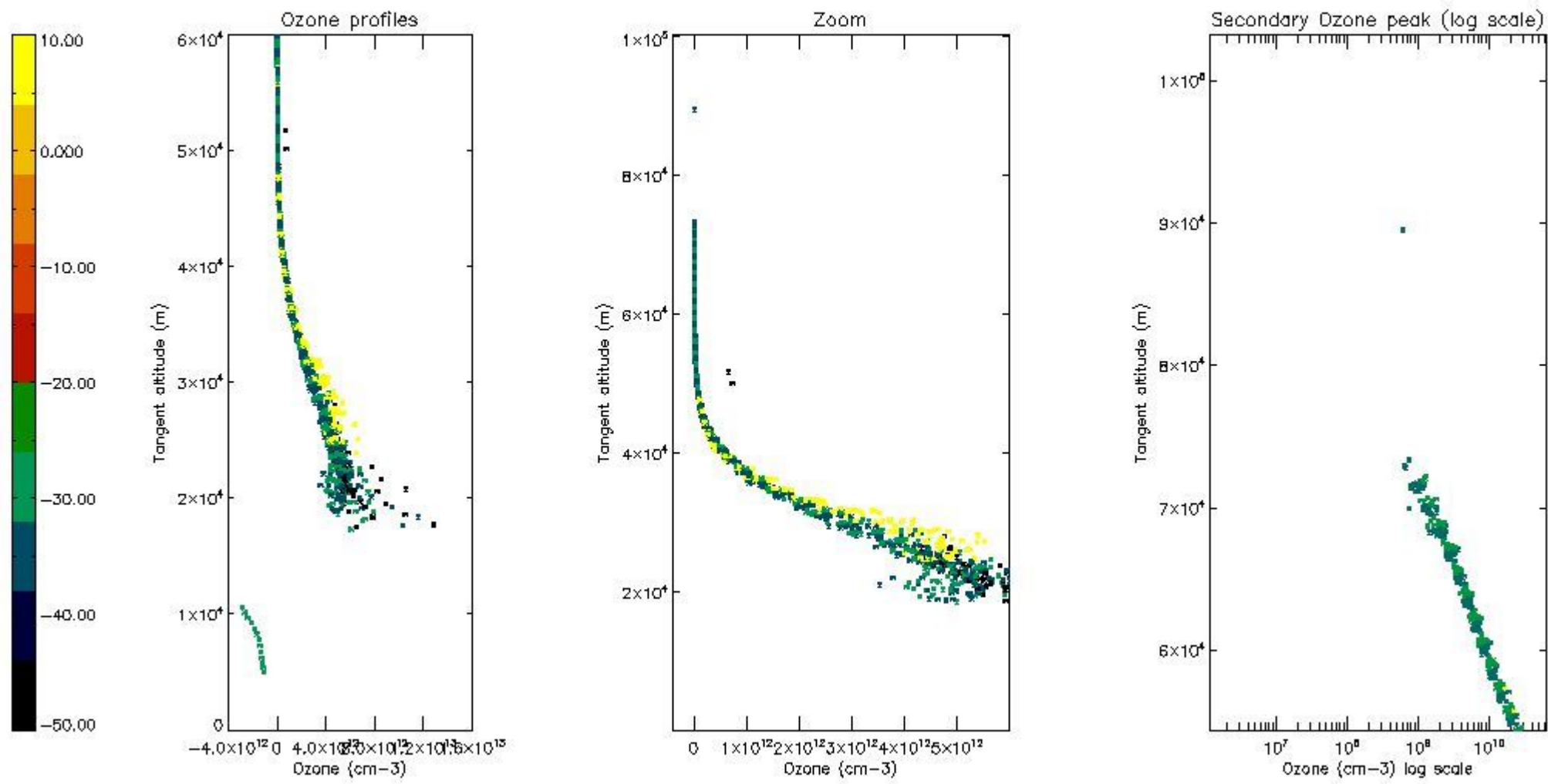
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



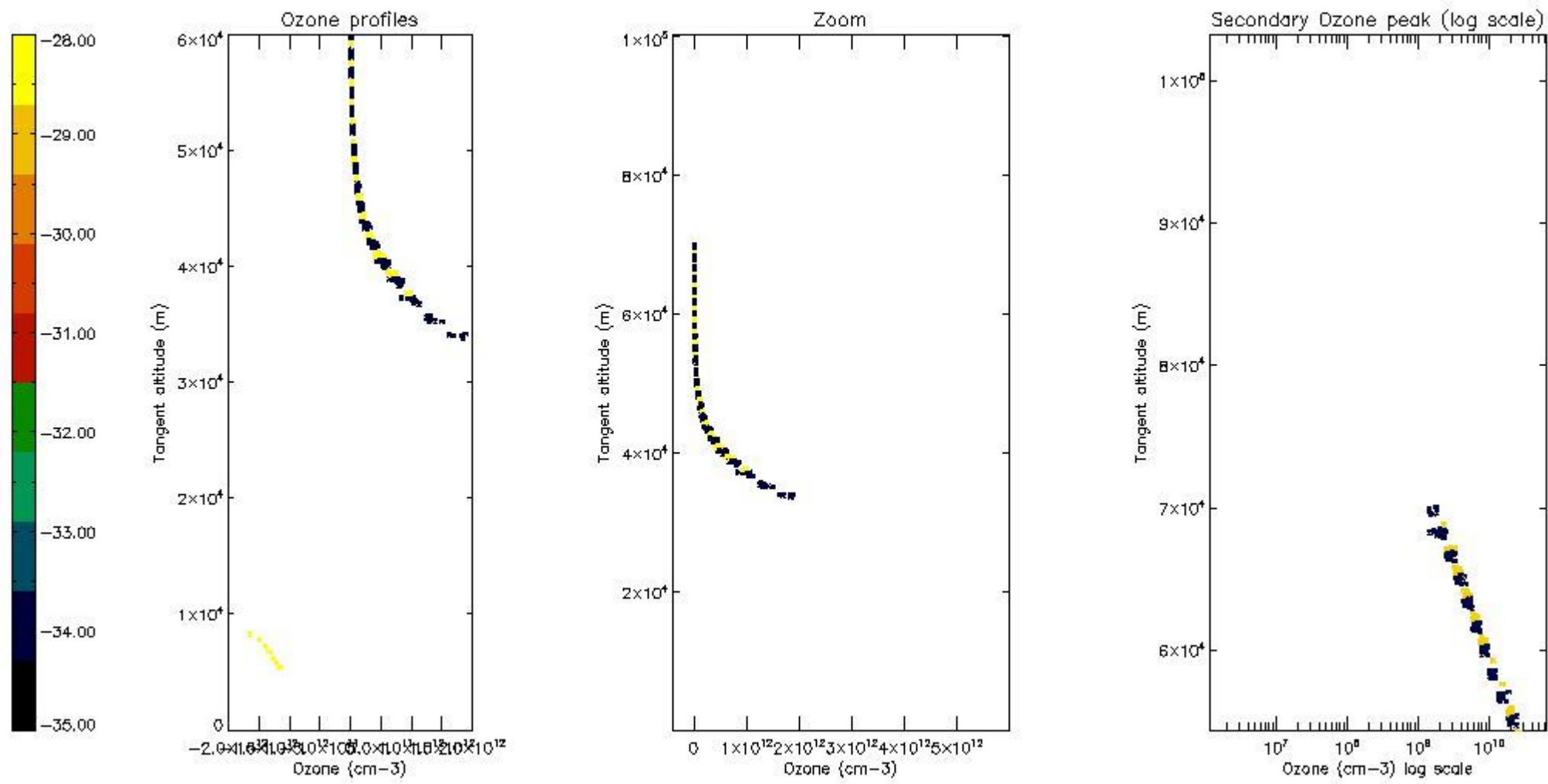
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



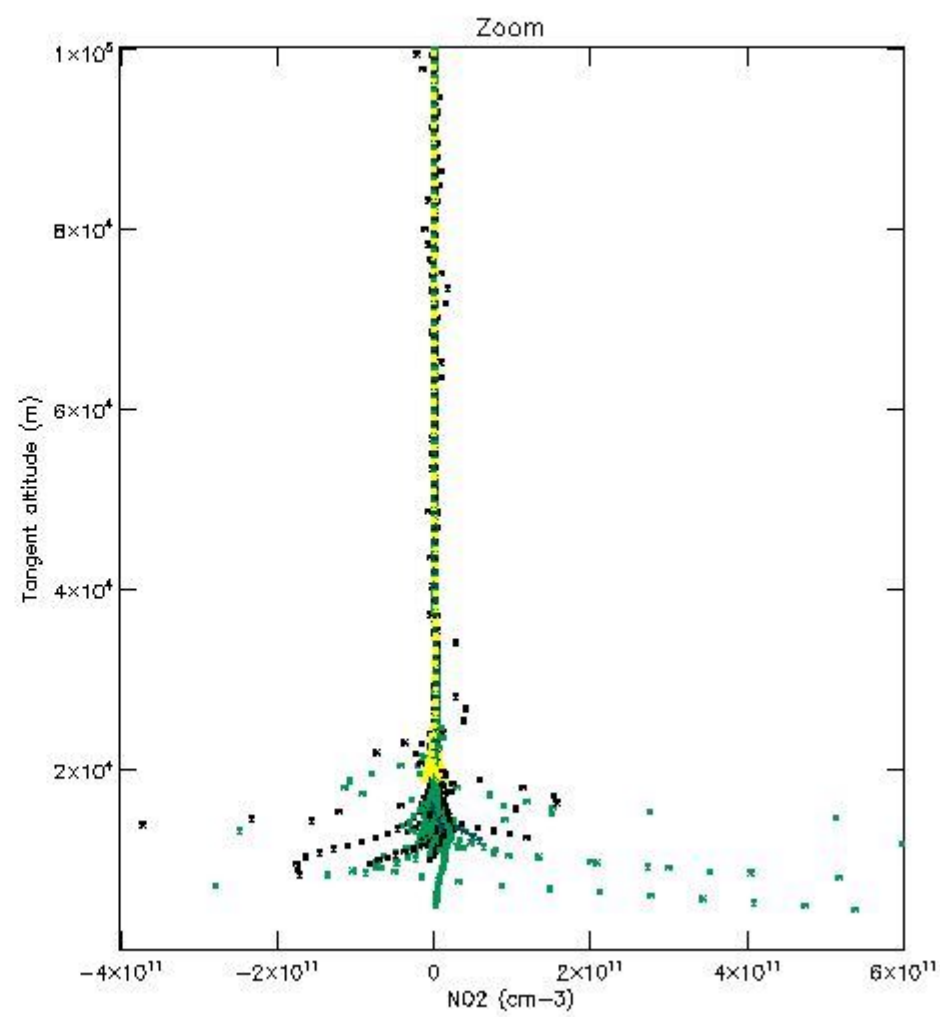
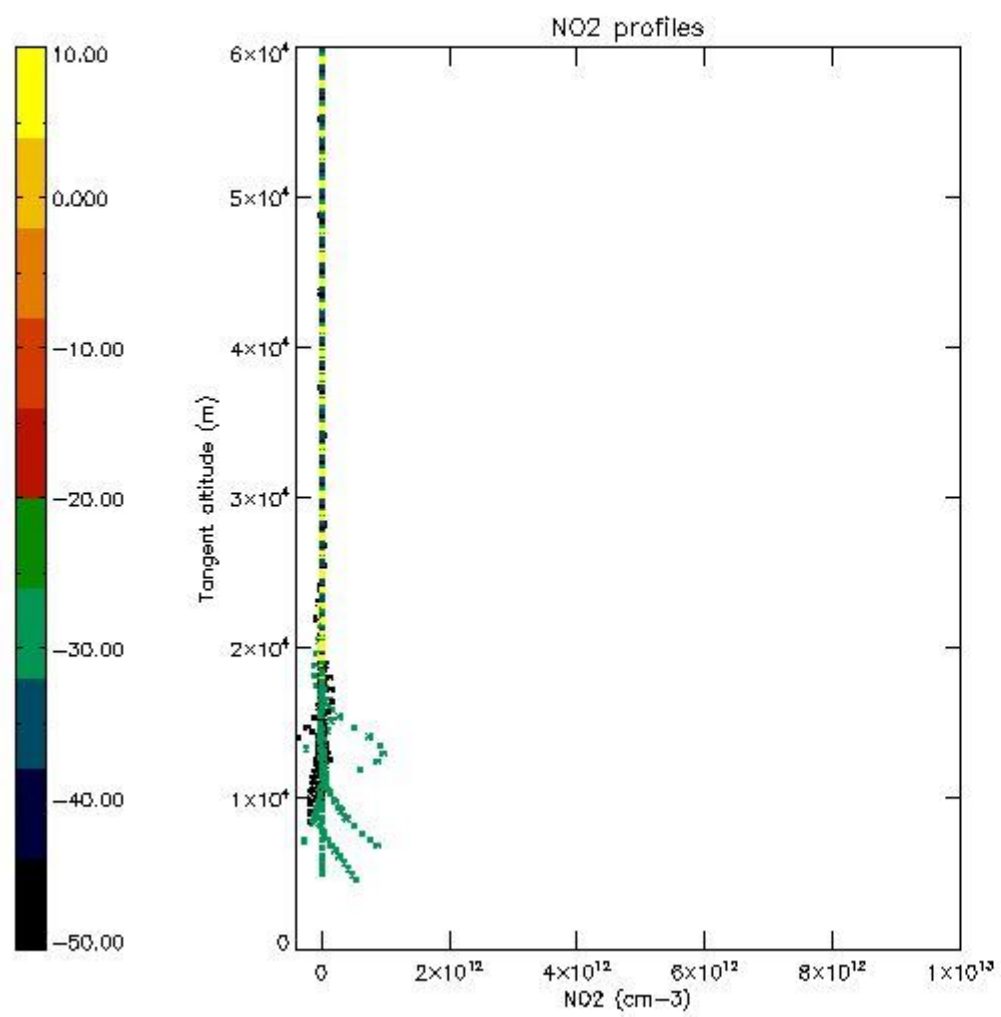
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



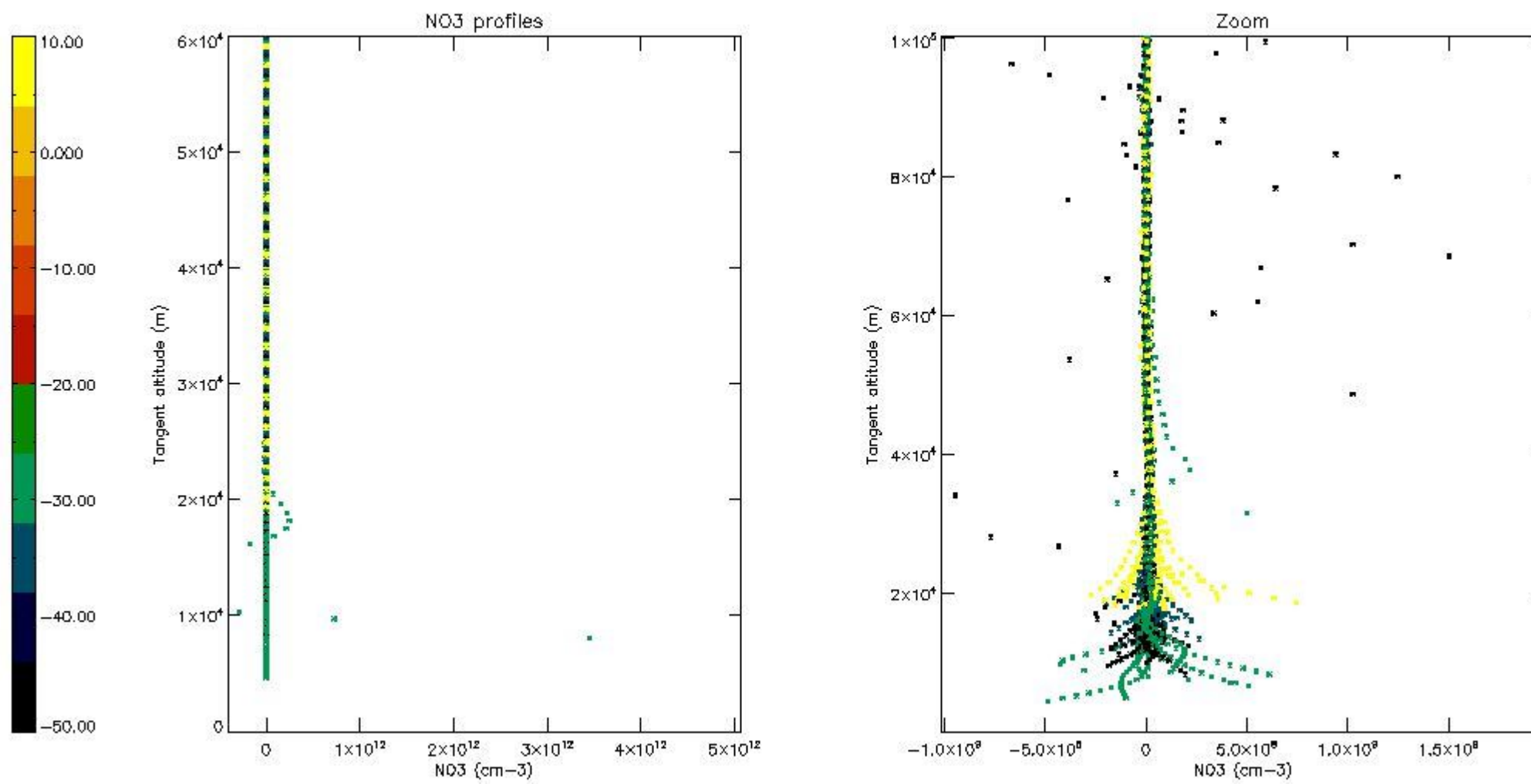
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

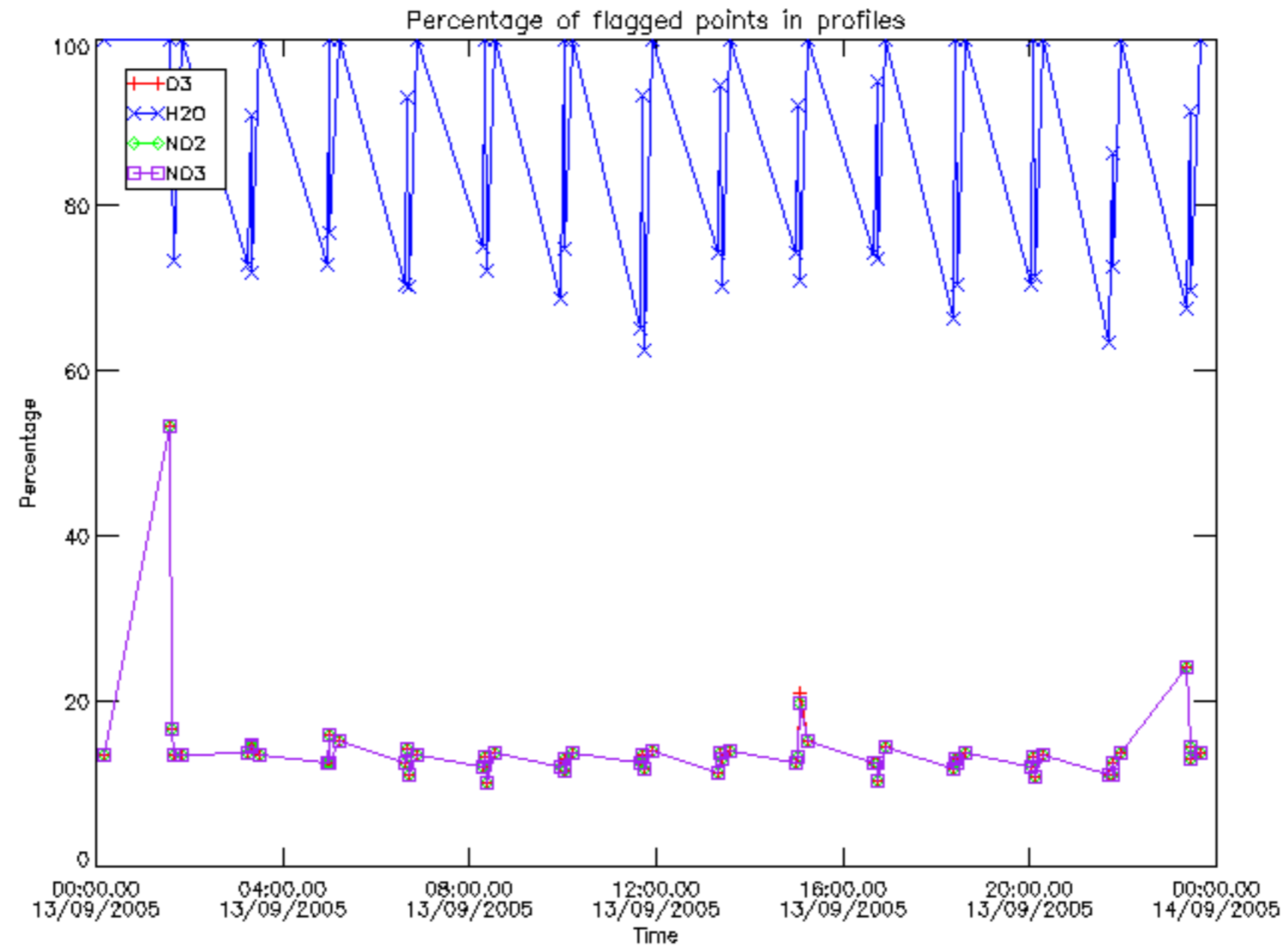
The colorbar represents the latitude.



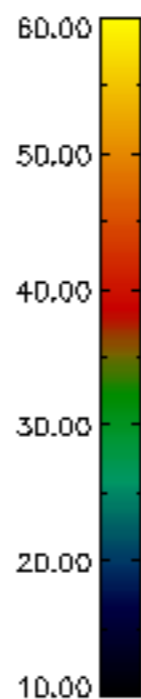
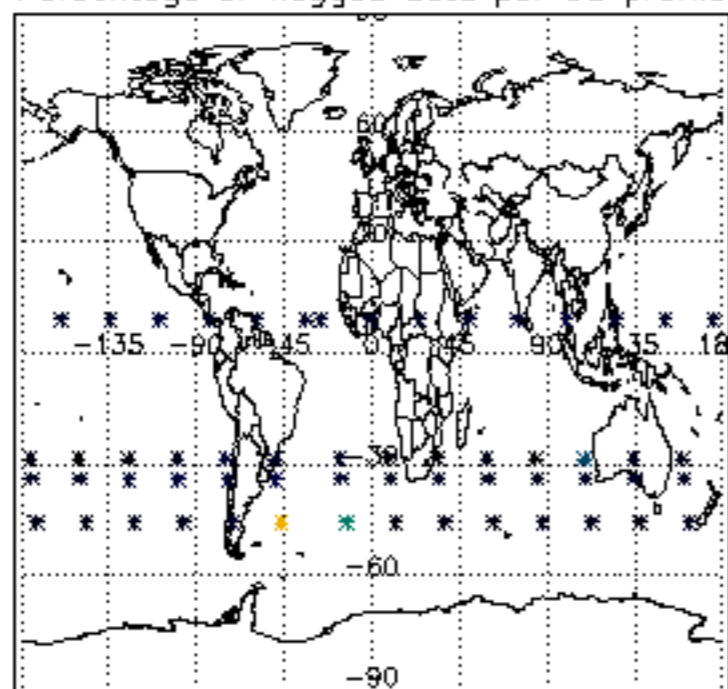
6. Auxiliary Data Files used for the production reported in section 2

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.

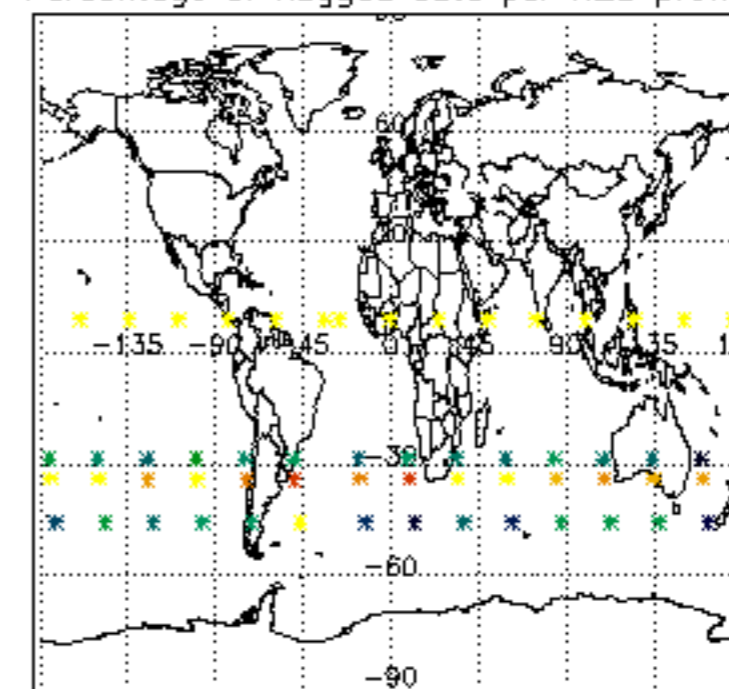
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	13-SEP-2005 00:09:48
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	13-SEP-2005 00:09:48
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	13-SEP-2005 00:09:48



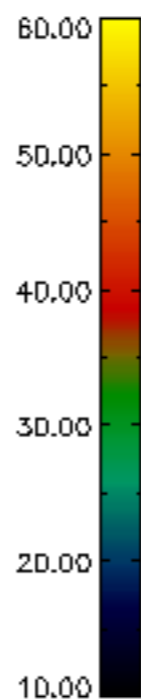
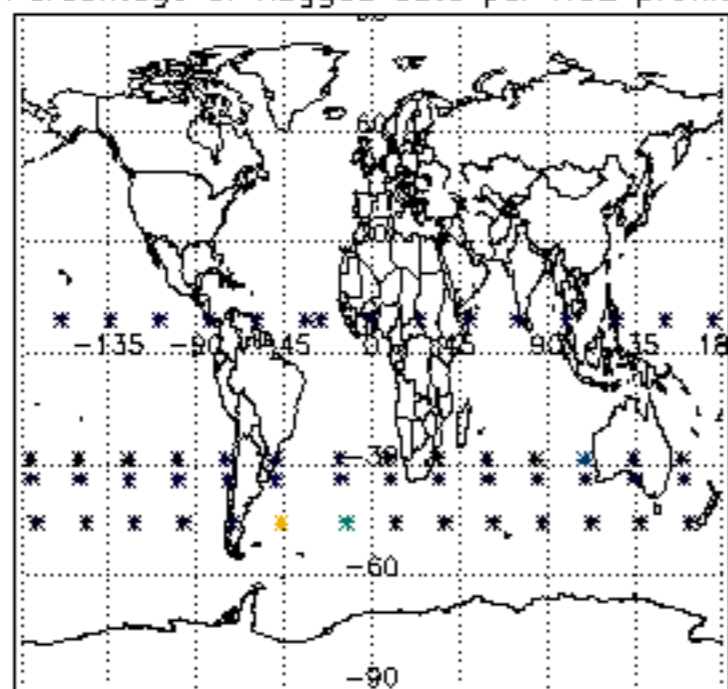
Percentage of flagged data per D3 profile



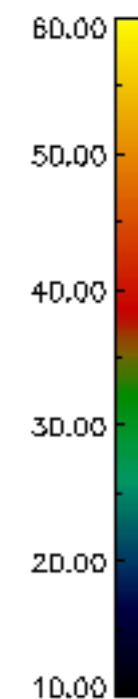
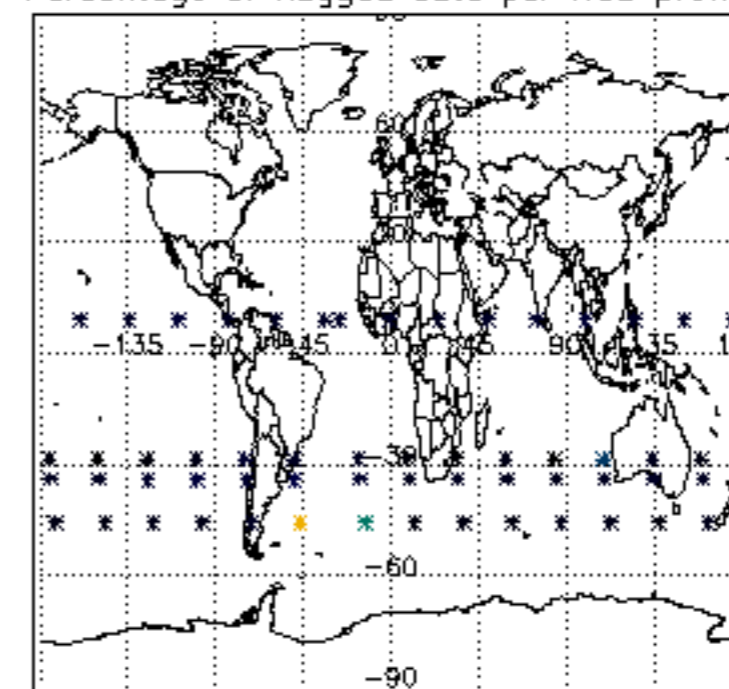
Percentage of flagged data per H2O profile

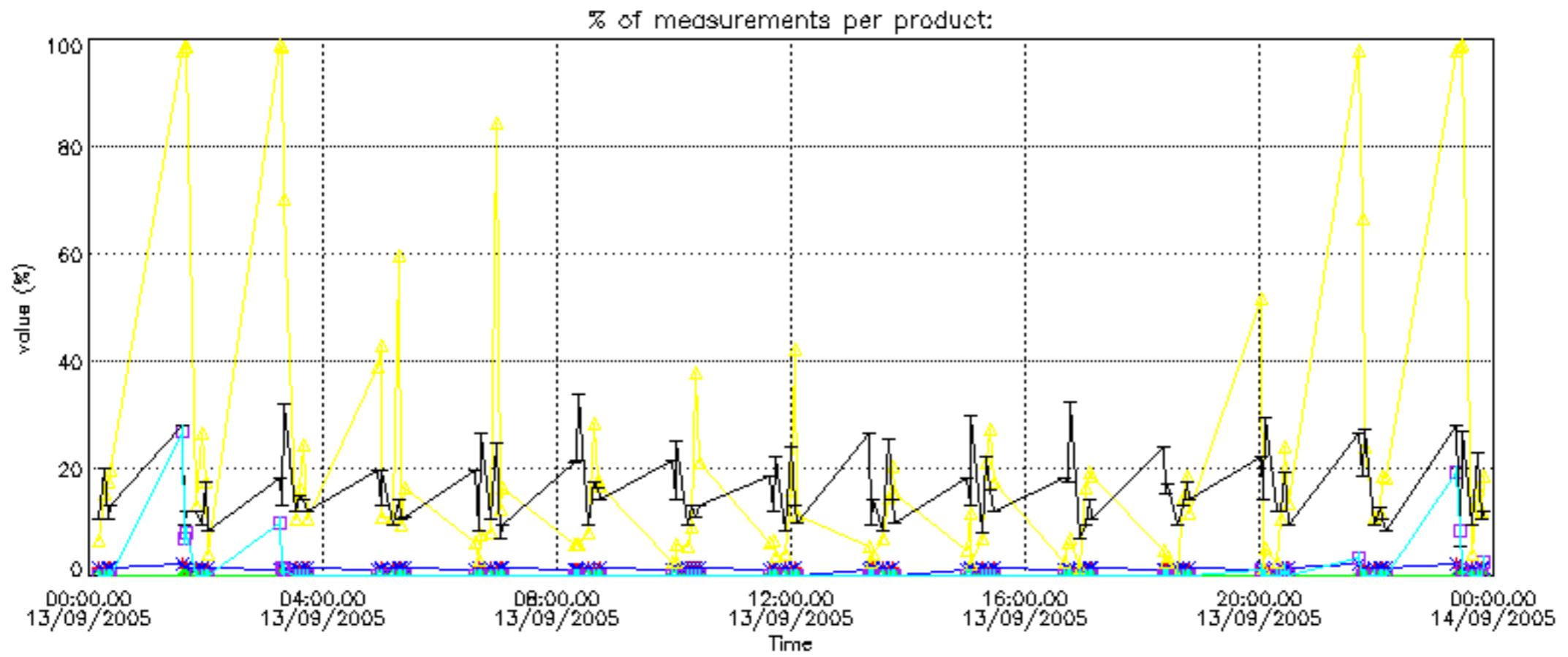


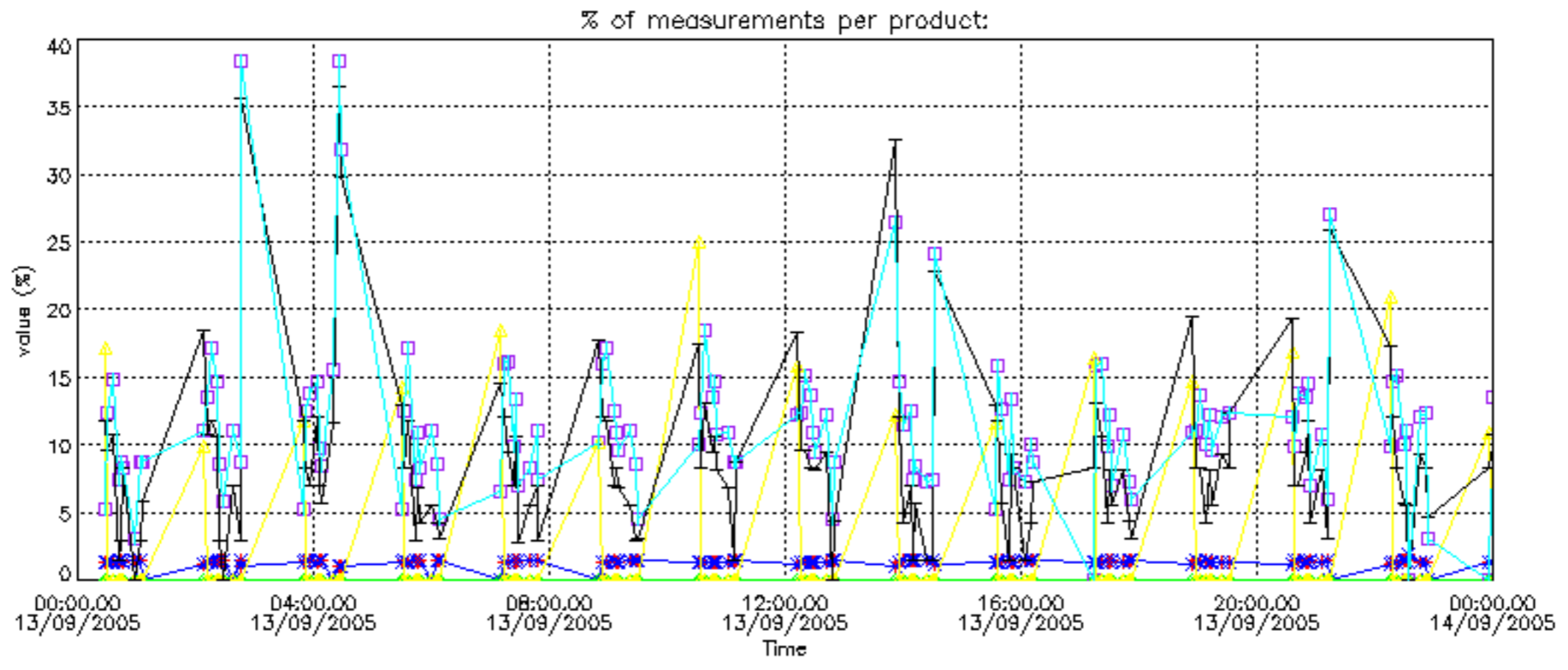
Percentage of flagged data per NO2 profile



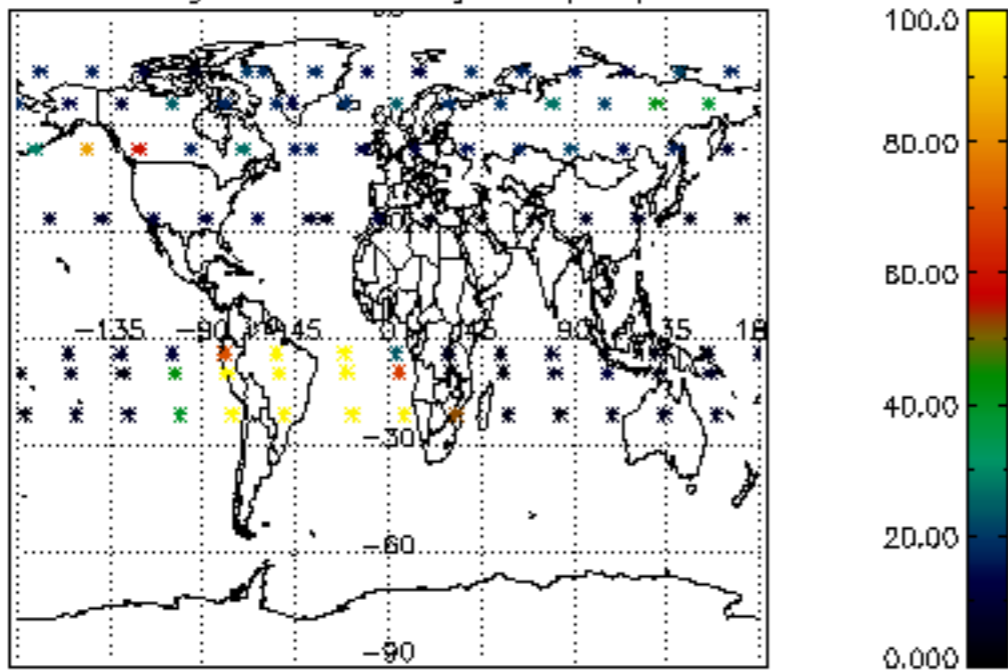
Percentage of flagged data per NO3 profile



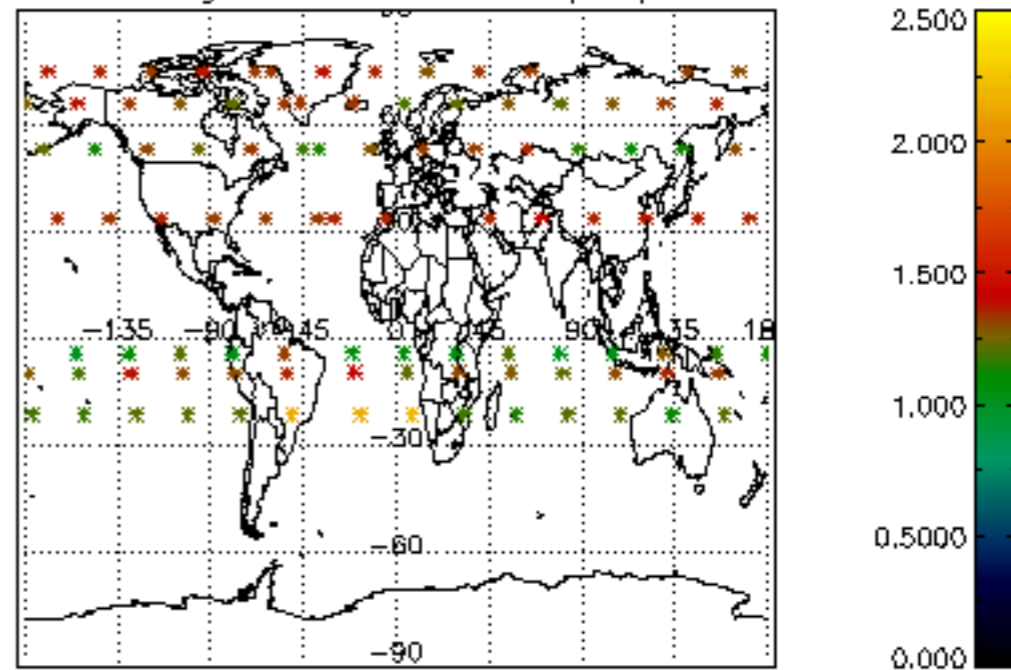




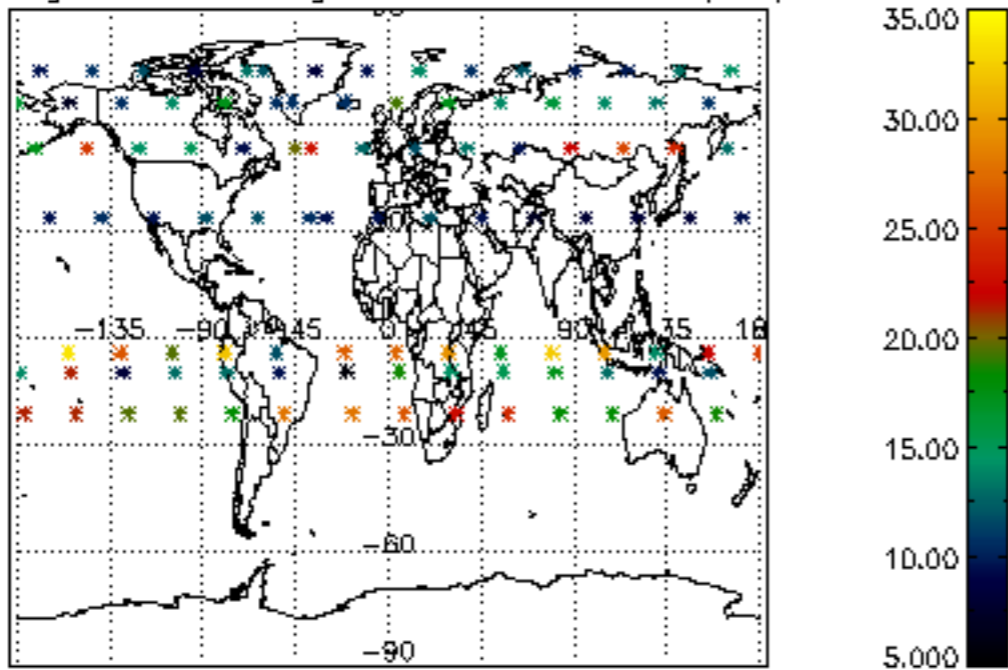
Percentage of cosmic ray hits per profile



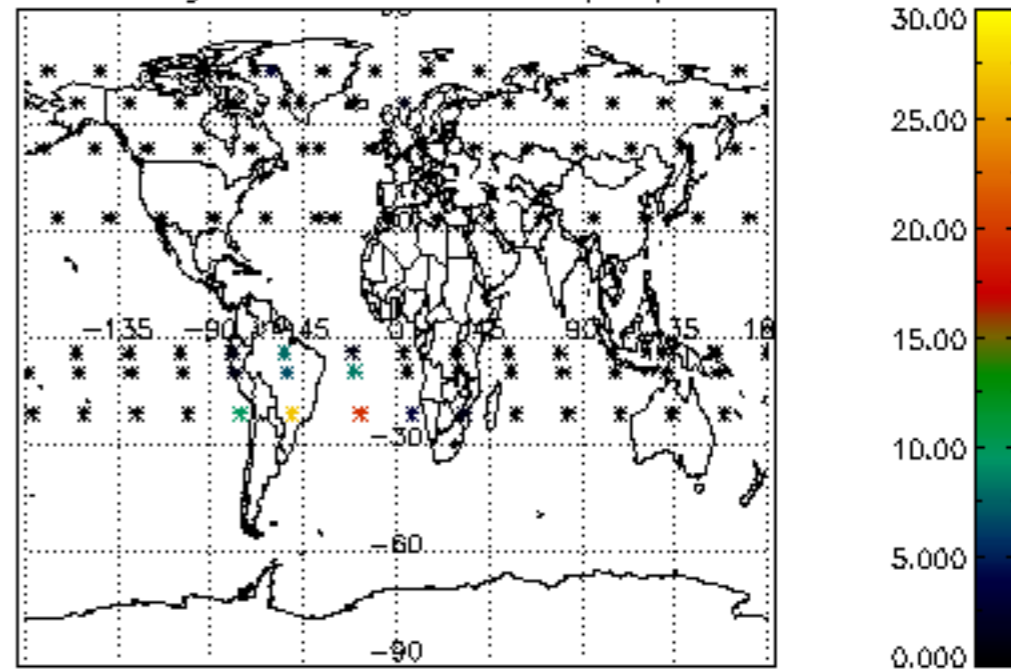
Percentage of datation errors per profile



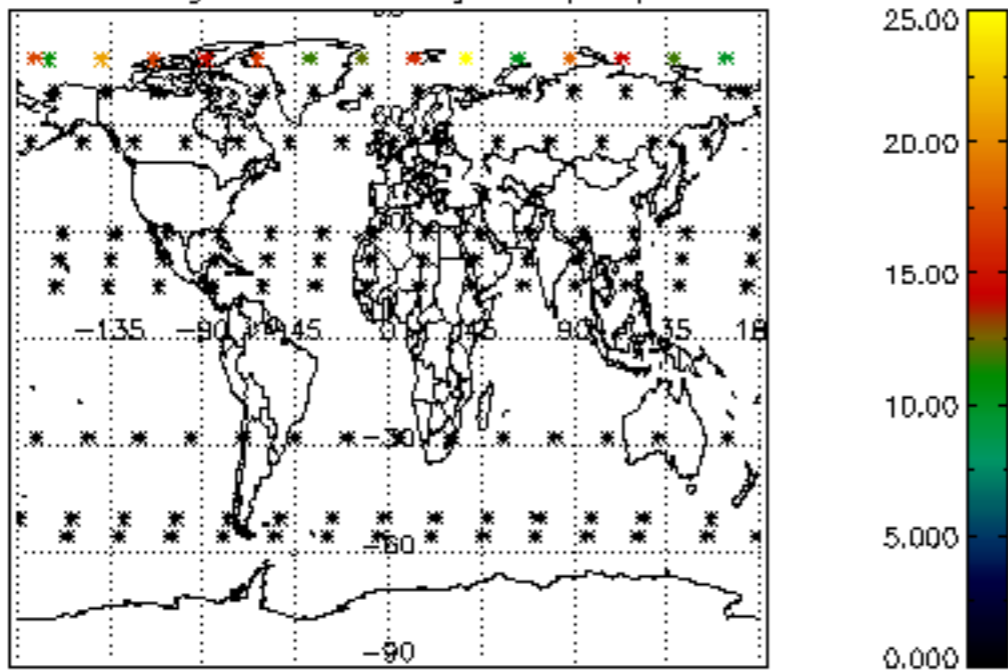
Percentage of star falling outside central band per profile



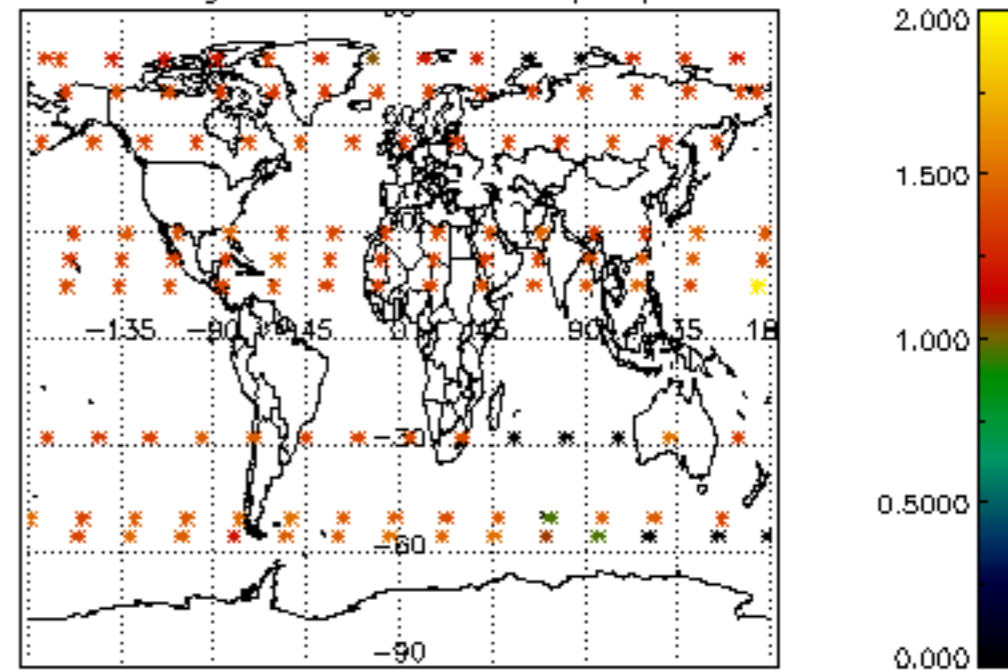
Percentage of saturation errors per profile



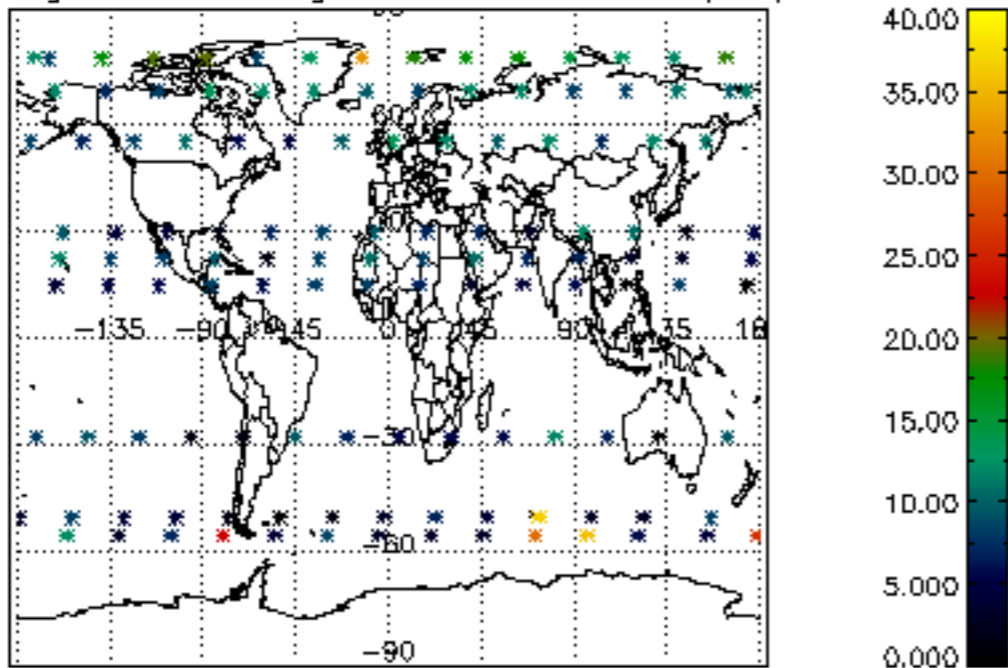
Percentage of cosmic ray hits per profile



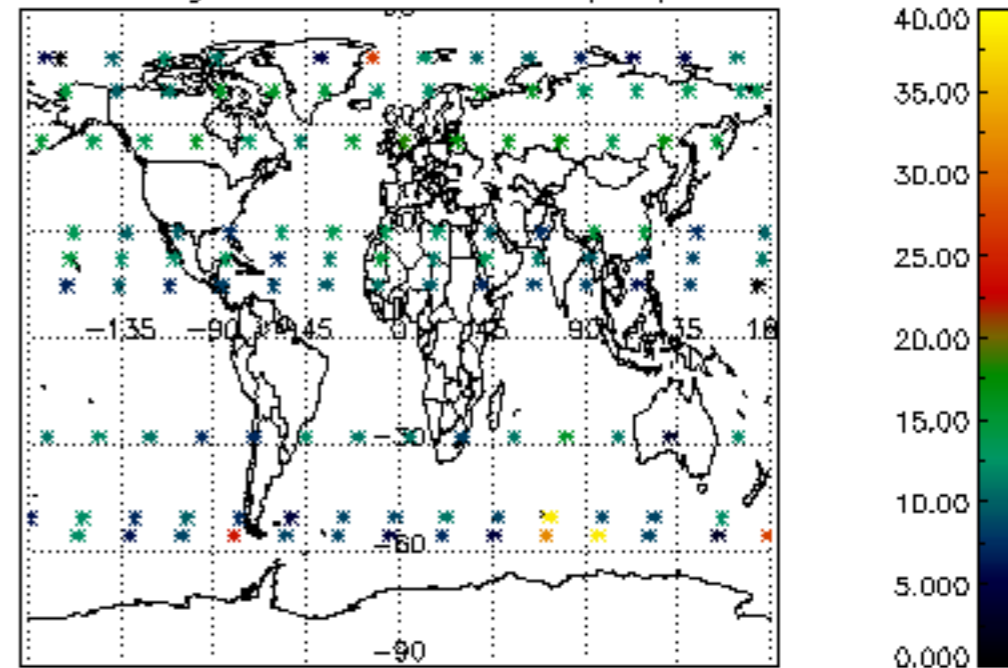
Percentage of datation errors per profile

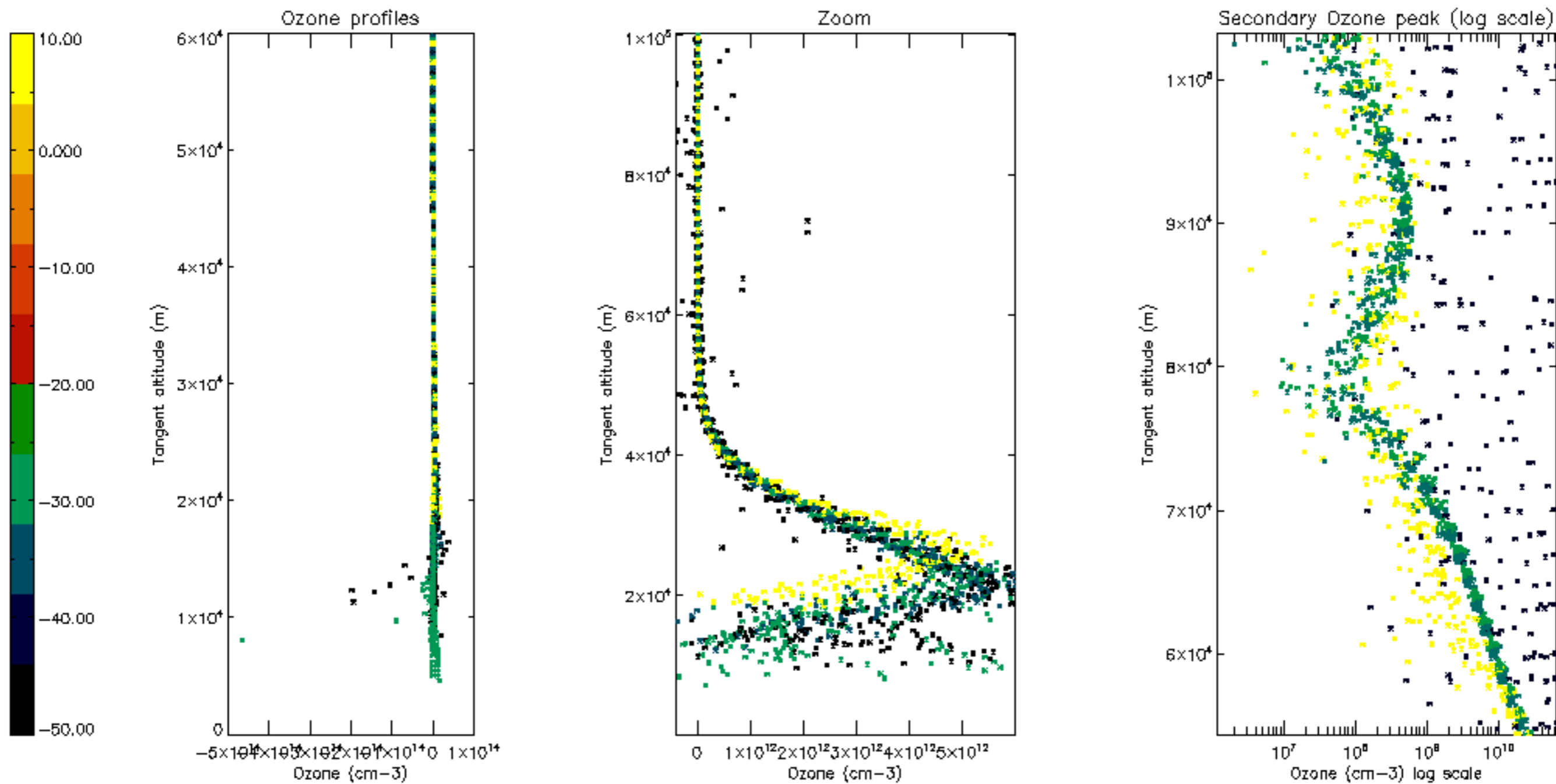


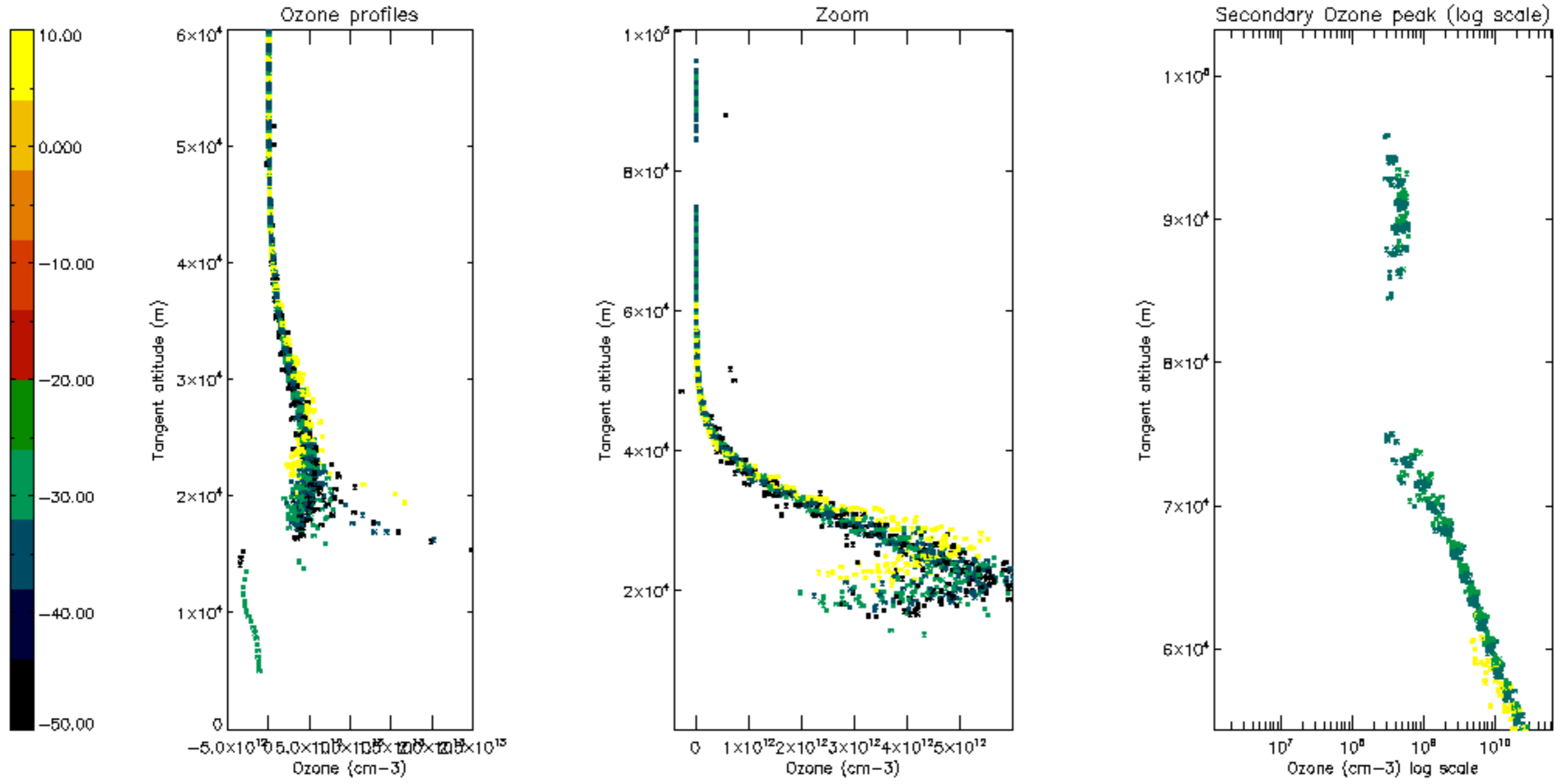
Percentage of star falling outside central band per profile

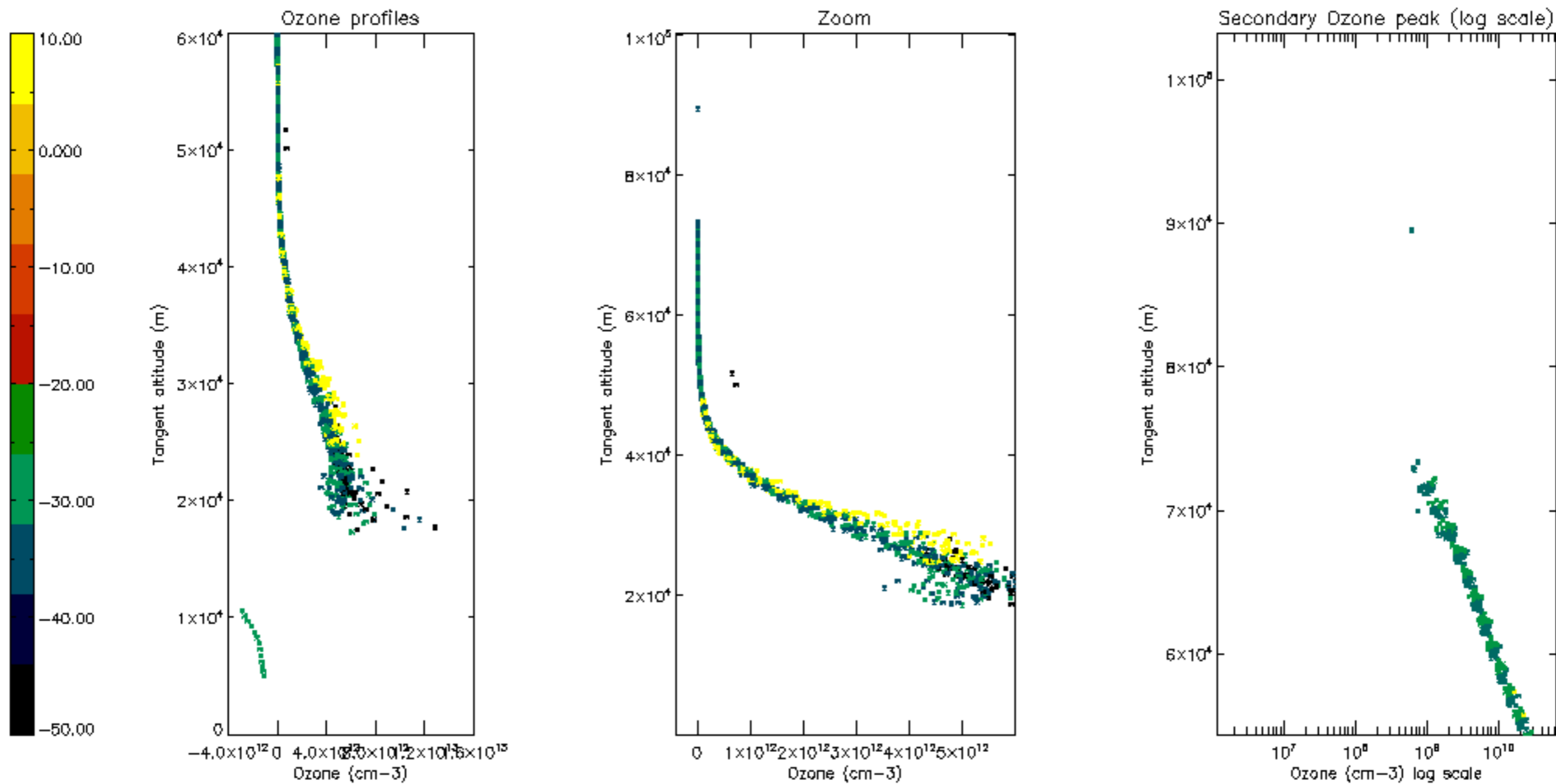


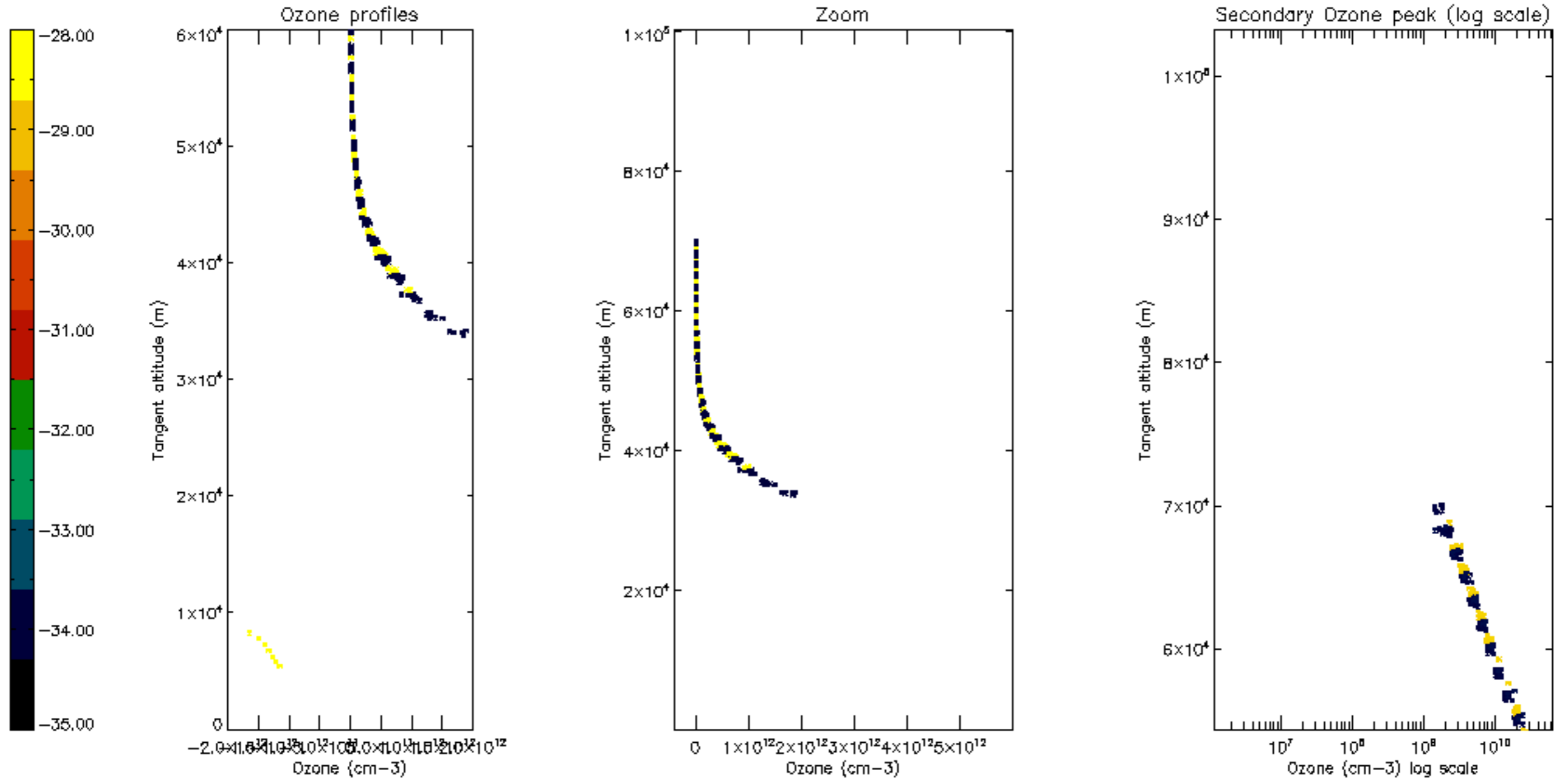
Percentage of saturation errors per profile

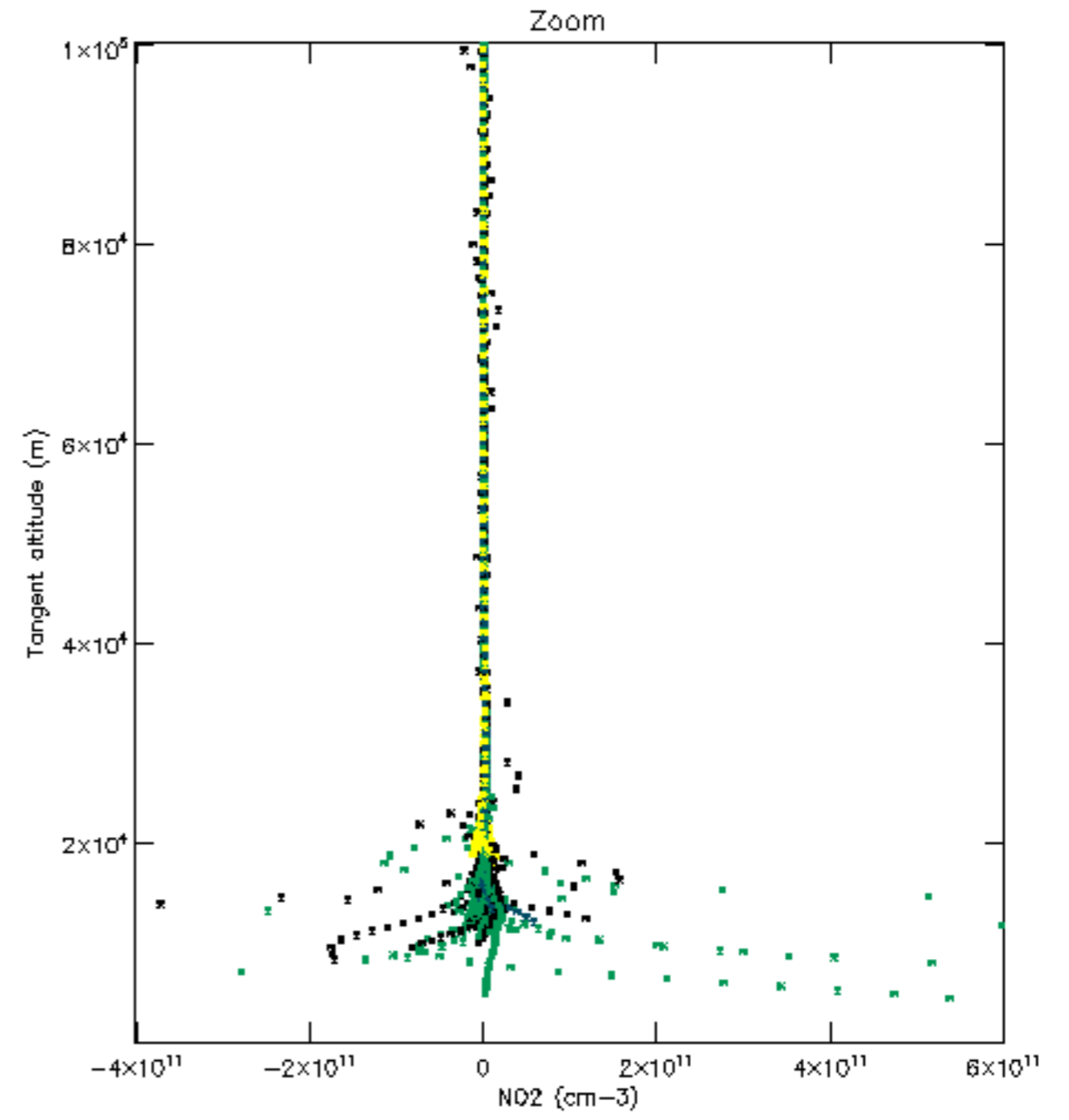
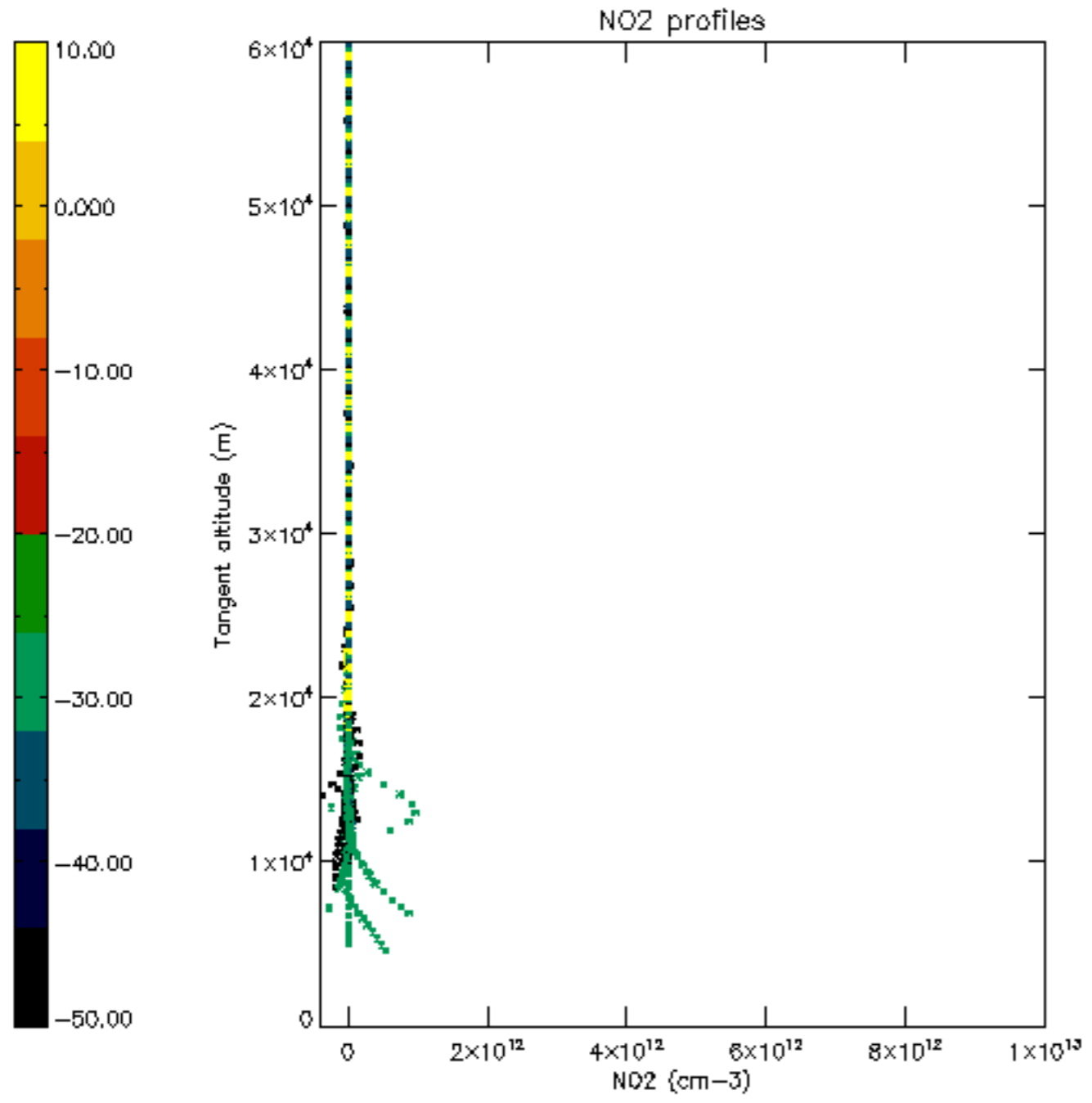


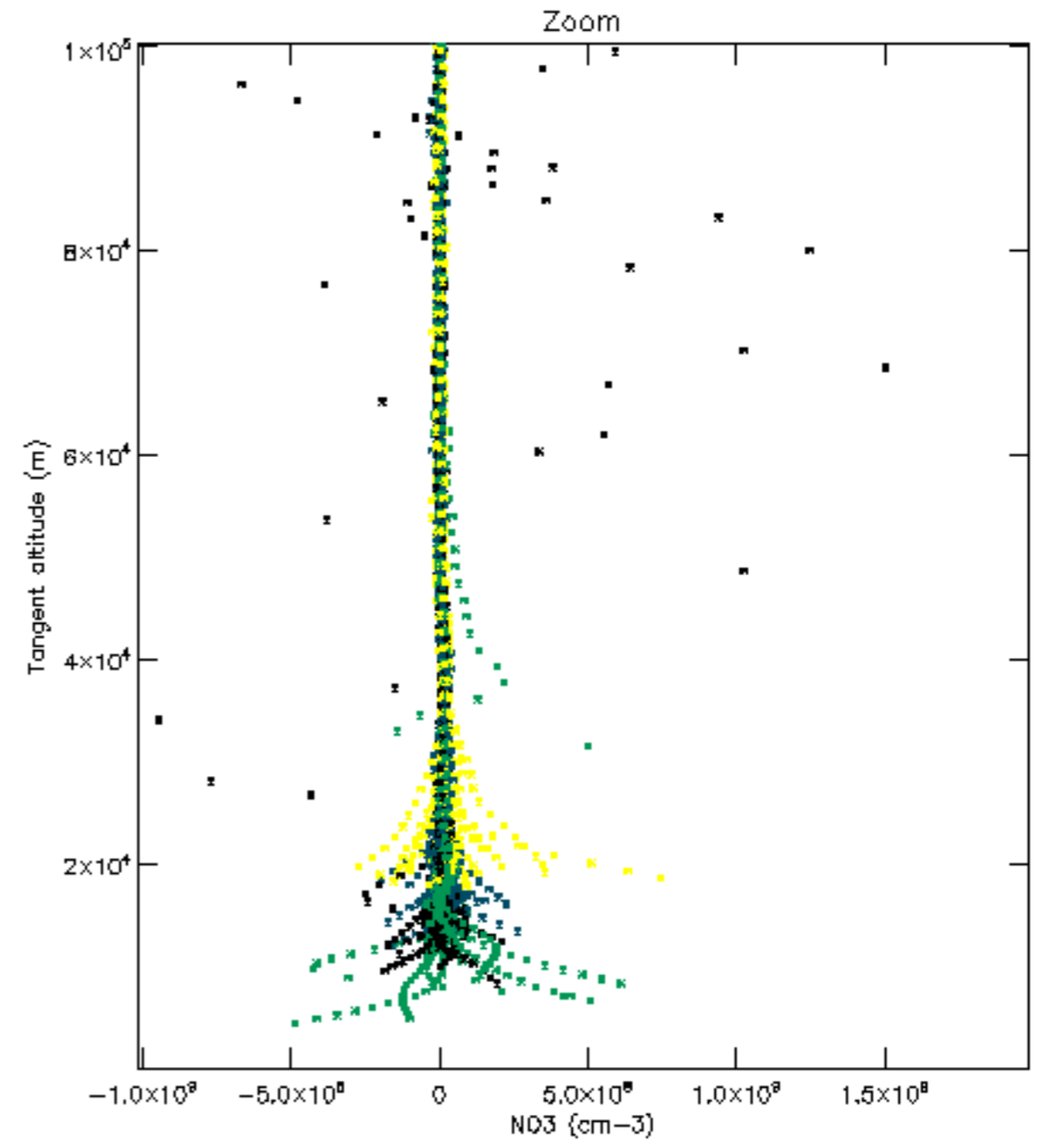
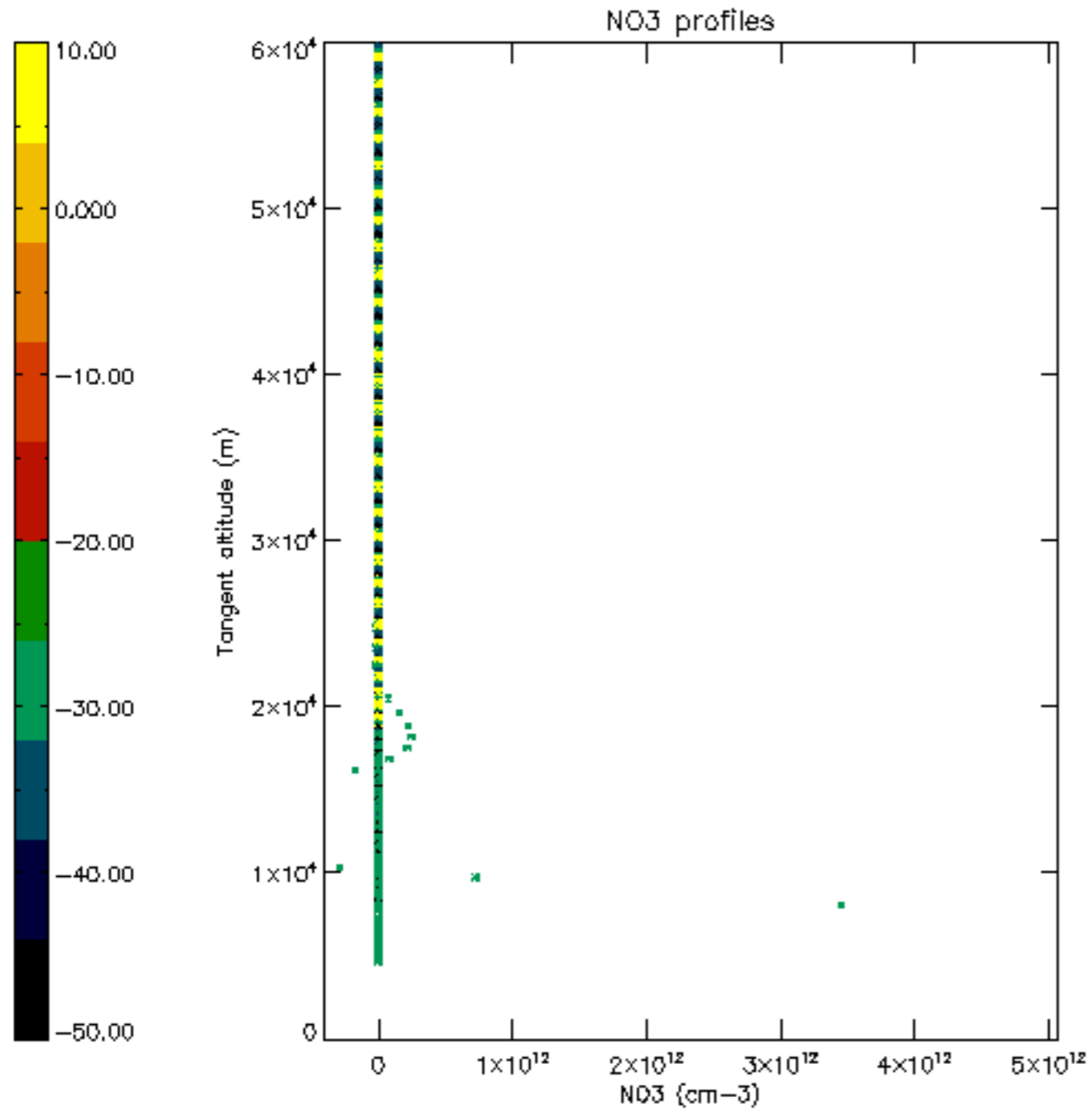


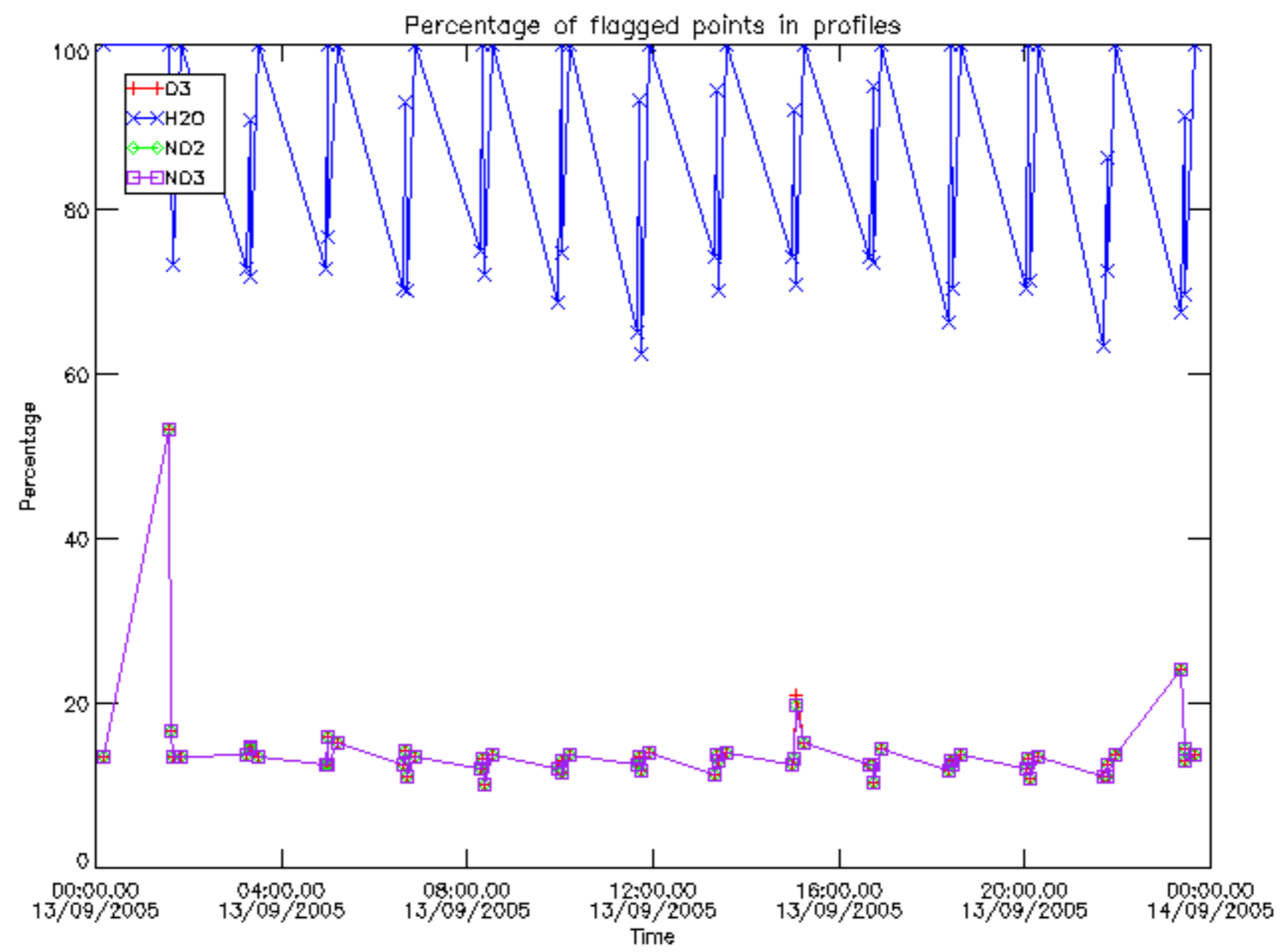




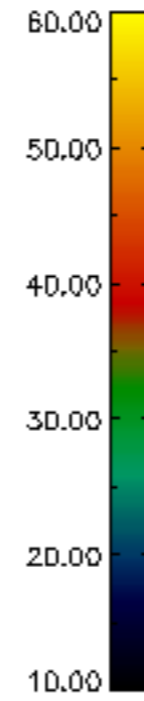
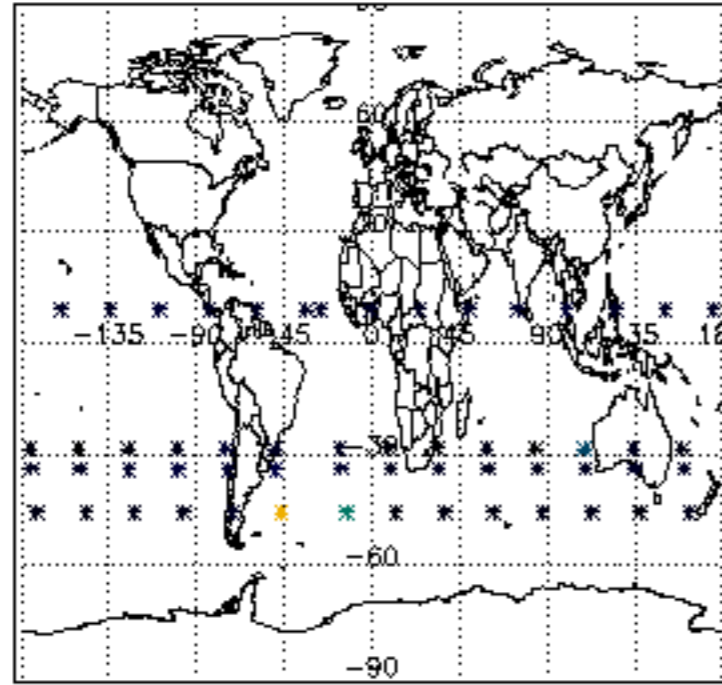




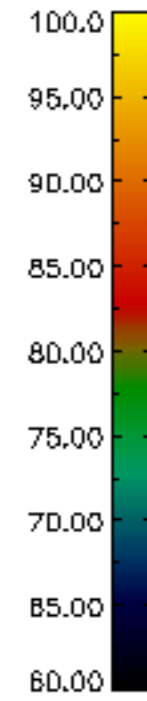
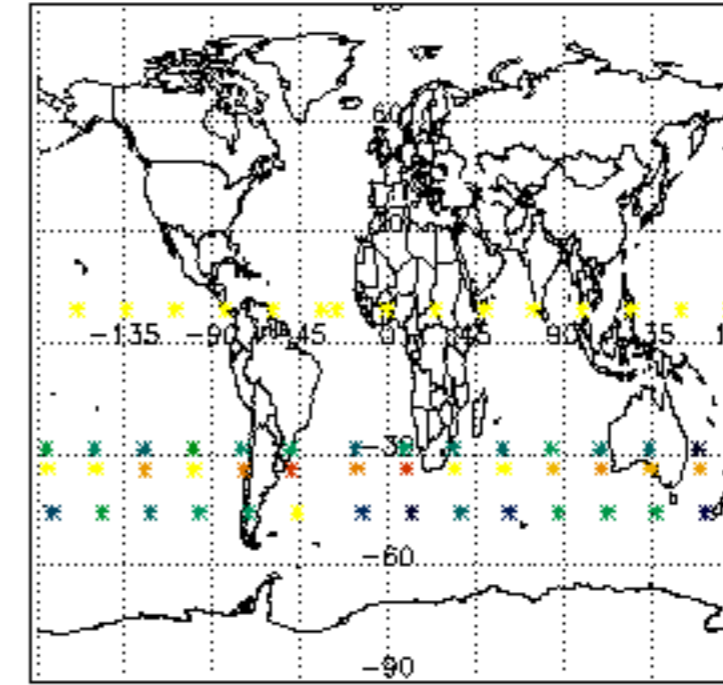




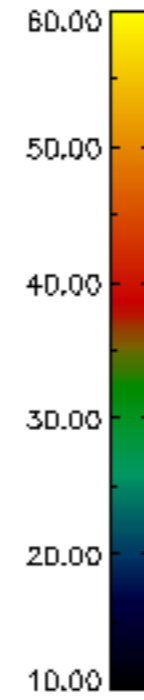
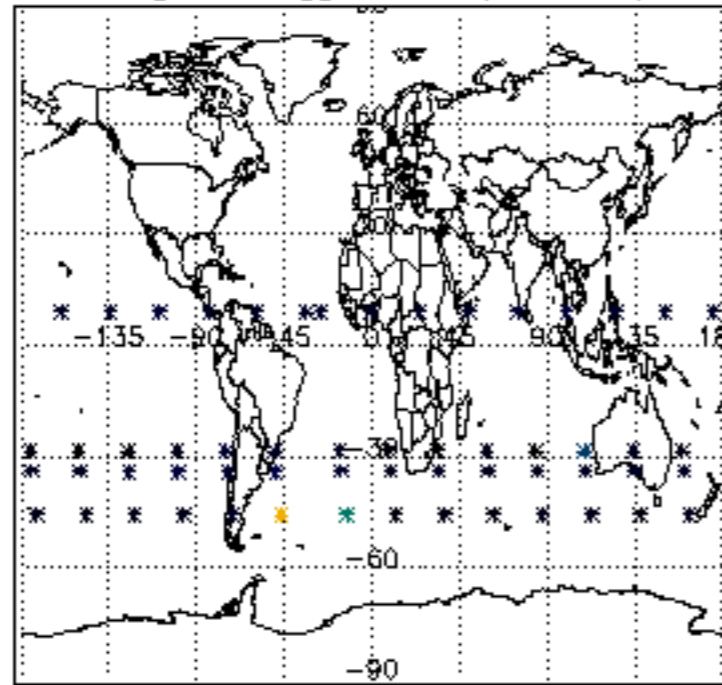
Percentage of flagged data per D3 profile



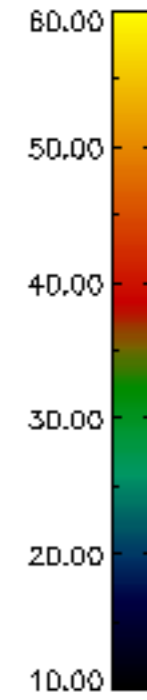
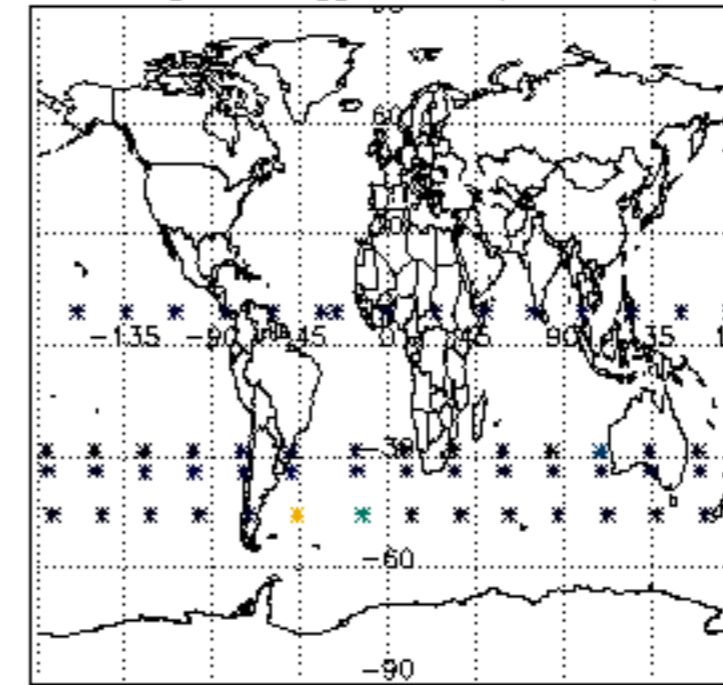
Percentage of flagged data per H2O profile

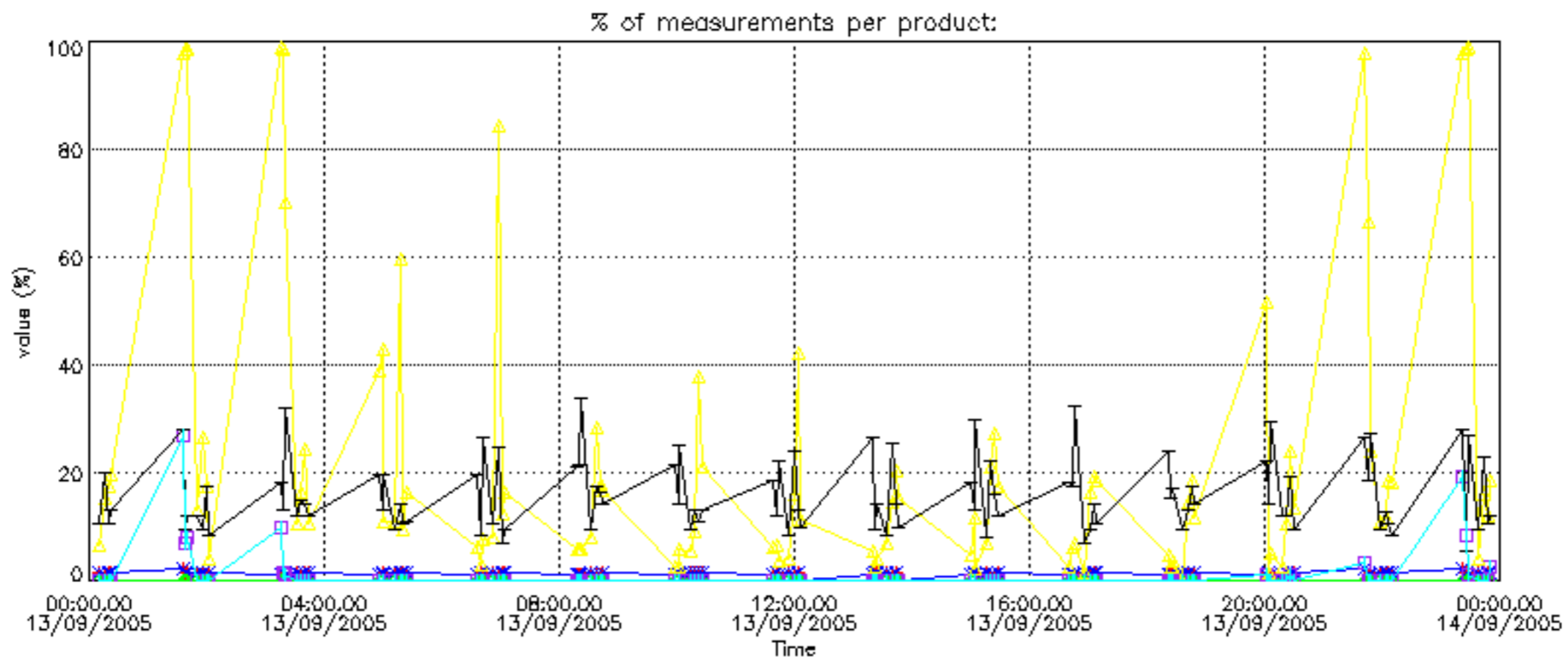


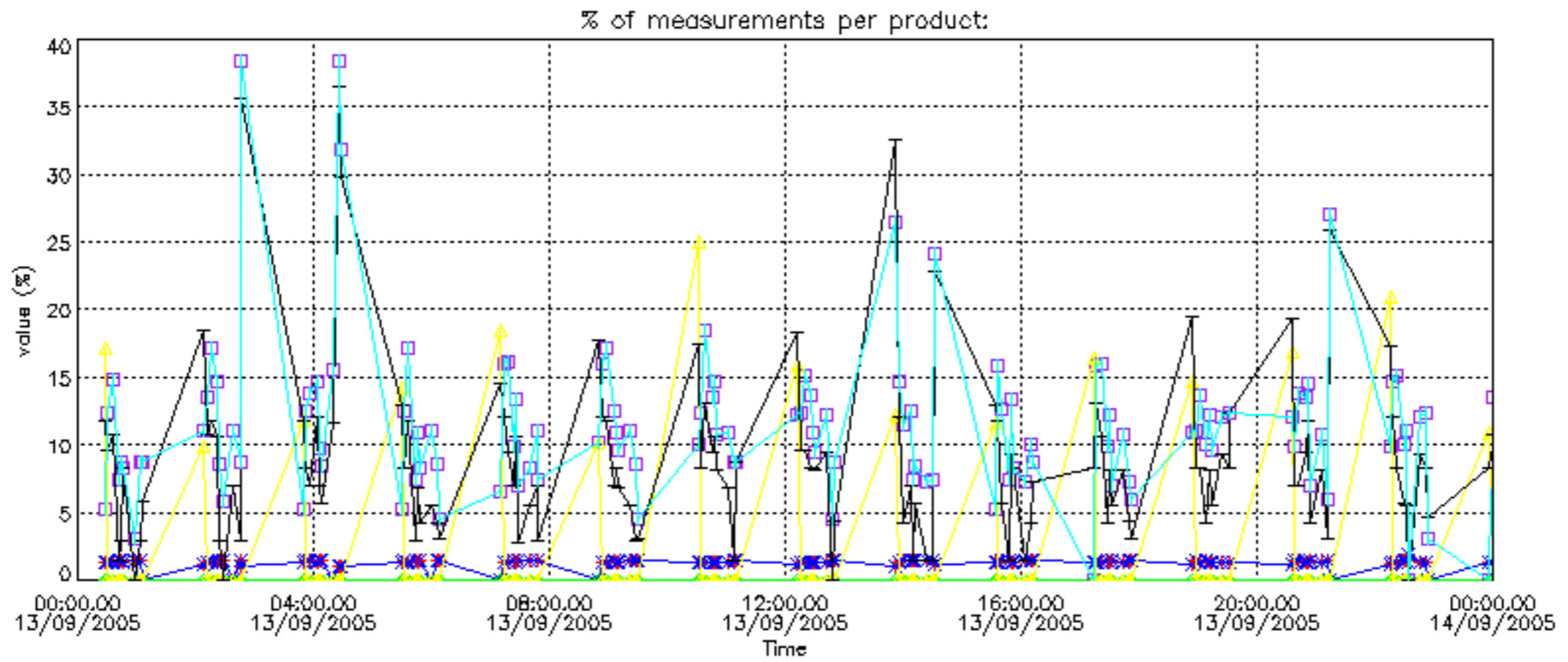
Percentage of flagged data per NO2 profile



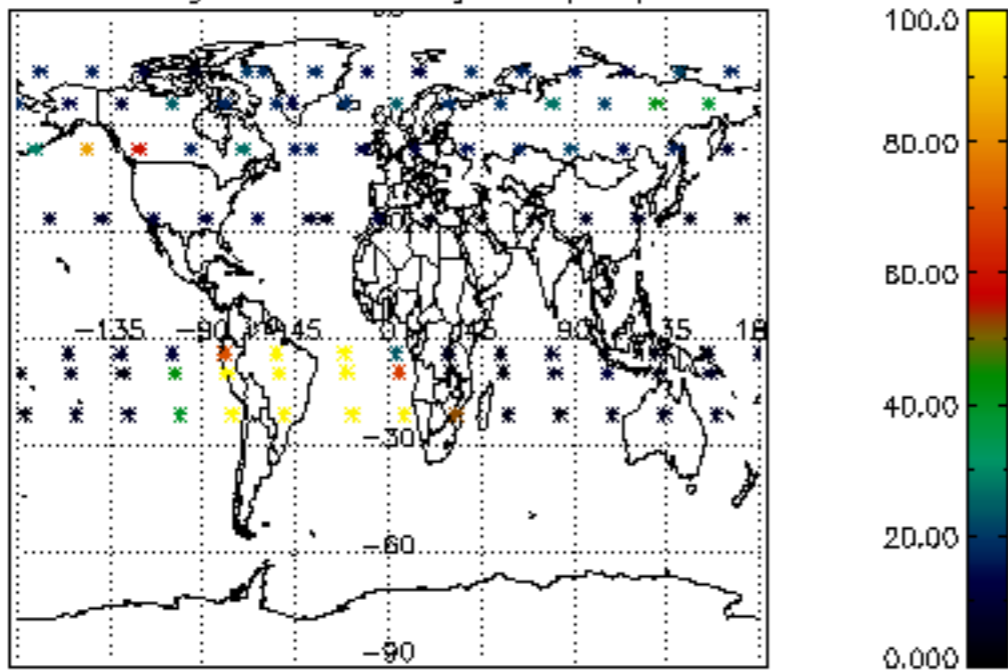
Percentage of flagged data per NO3 profile



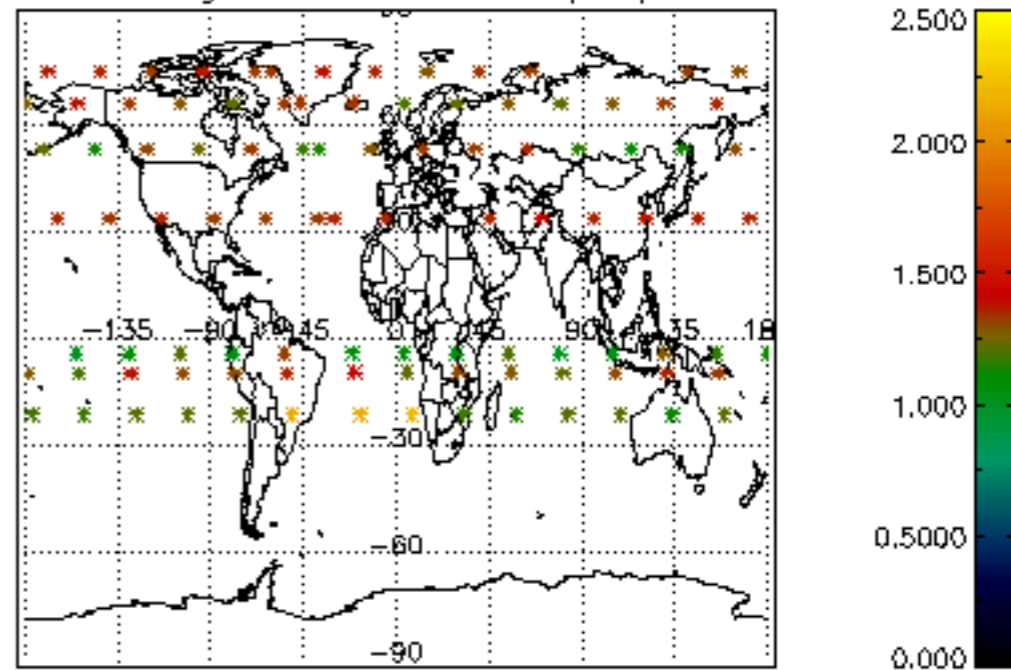




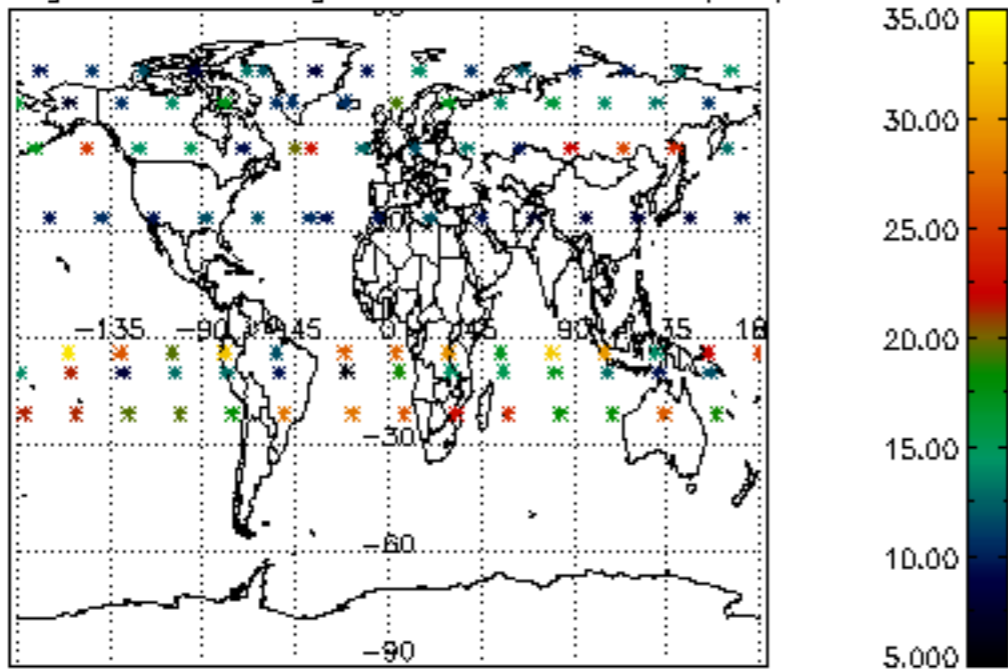
Percentage of cosmic ray hits per profile



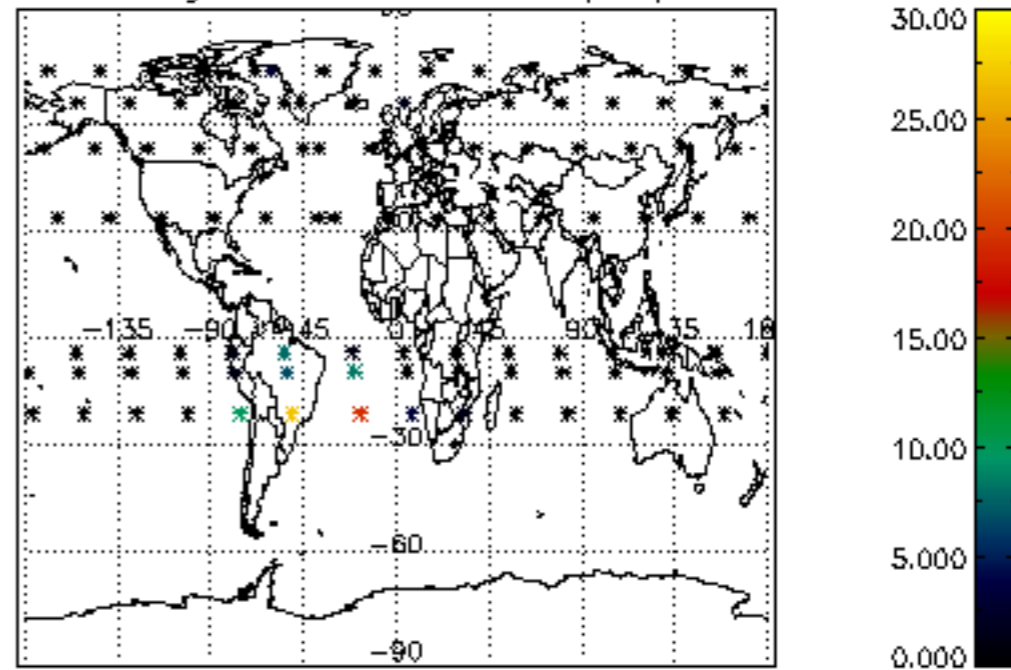
Percentage of datation errors per profile



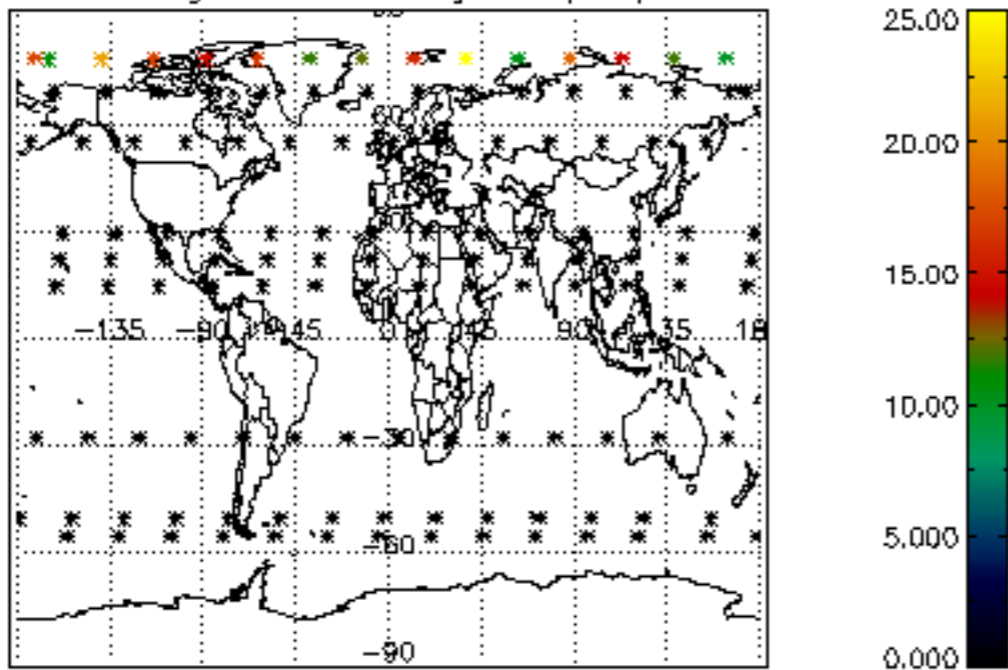
Percentage of star falling outside central band per profile



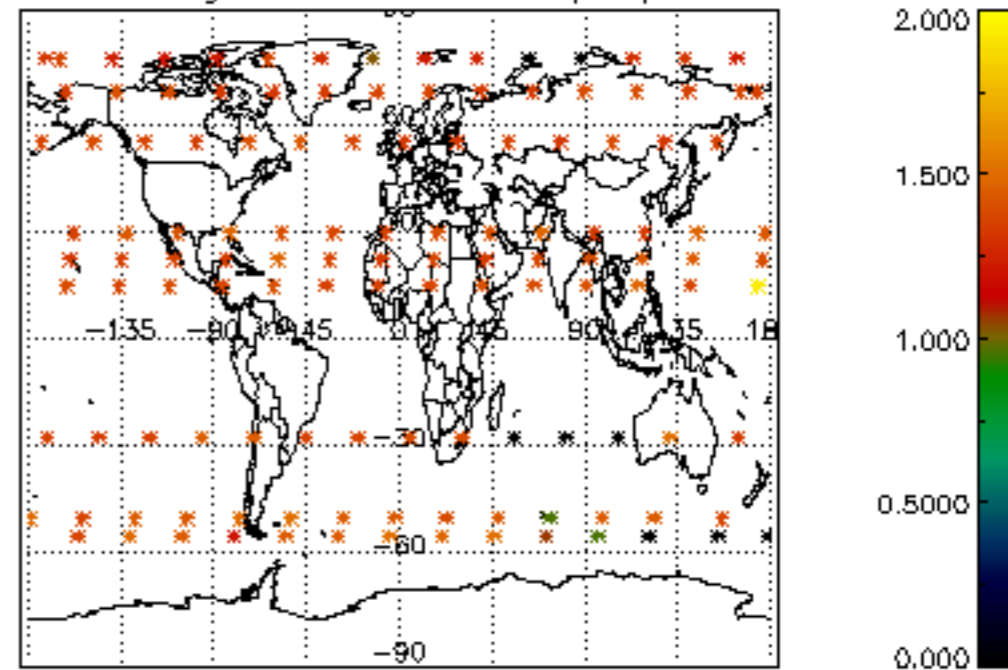
Percentage of saturation errors per profile



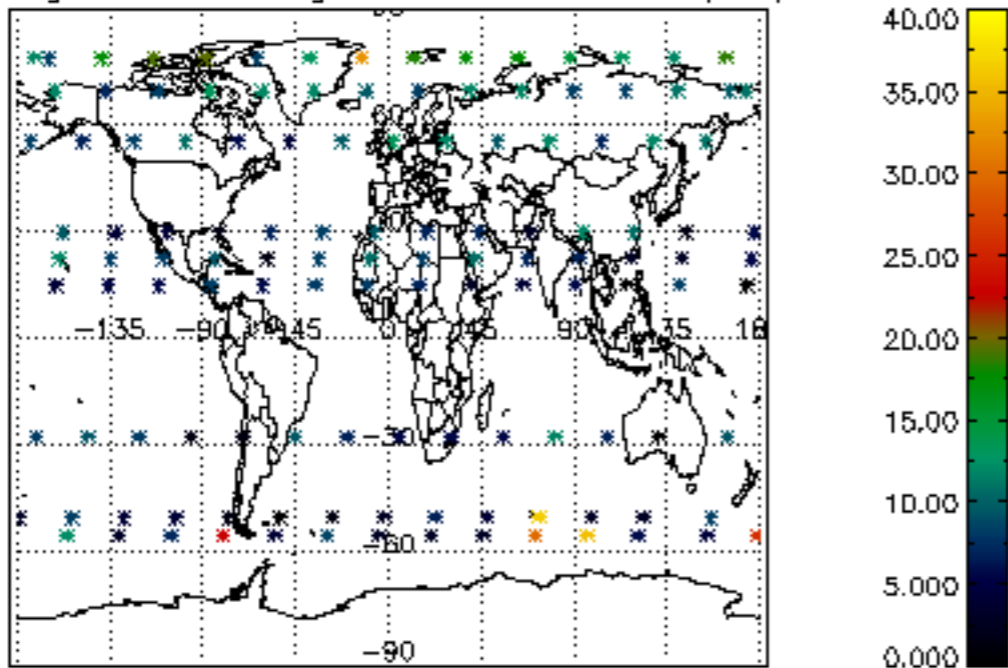
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

