

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	24APR2013 17:50:15
Data source version	GOMOS/6.01
Start time of products	22-09-2011 (22SEP2011 00:00:00)
Stop time of products	23-09-2011 (23SEP2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	25
Nb of prods with errors	0

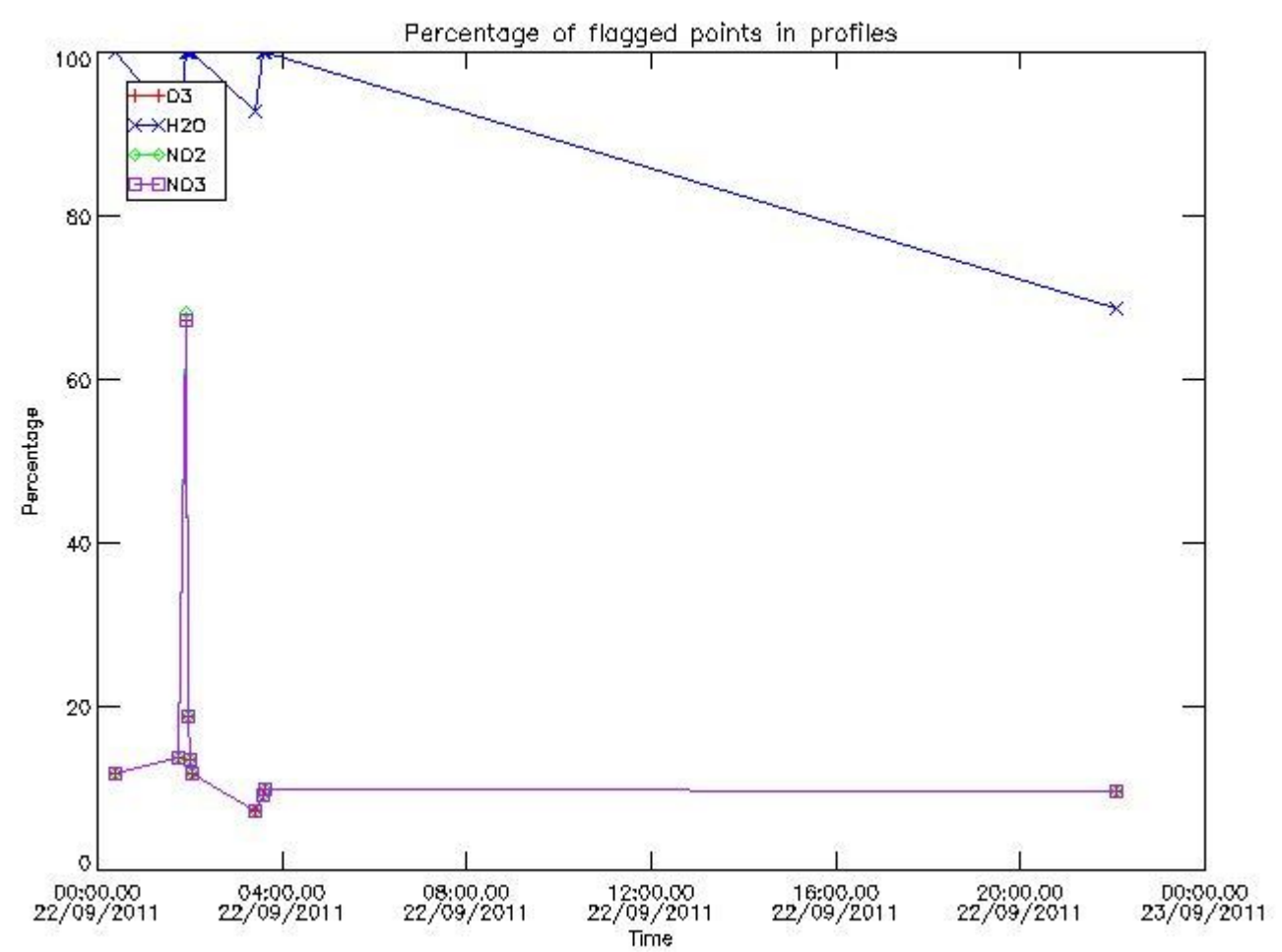
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110922_002254_000000433106_00419_50002_8136.N1	22-SEP-2011 00:22:54	Dark	43.000	108	Alp Col	2.6520	15200.	86	50002	No
2	GOM_NL__2PRFIN20110922_003859_000000443106_00419_50002_8137.N1	22-SEP-2011 00:38:59	Straylight	44.000	84	Alp Phe	2.3970	4500.0	88	50002	No
3	GOM_NL__2PRFIN20110922_004614_000000543106_00419_50002_8138.N1	22-SEP-2011 00:46:14	Twilight_and_stray	53.500	52	16Bet Cet	2.0370	4500.0	107	50002	No
4	GOM_NL__2PRFIN20110922_005638_000000383106_00419_50002_8139.N1	22-SEP-2011 00:56:38	Bright	38.000	90	54Alp Peg	2.4870	11000.	76	50002	No
5	GOM_NL__2PRFIN20110922_010022_000000393106_00419_50002_8140.N1	22-SEP-2011 01:00:22	Bright	38.500	93	53Bet Peg	2.5200	3100.0	77	50002	No
6	GOM_NL__2PRFIN20110922_010146_000000443106_00419_50002_8141.N1	22-SEP-2011 01:01:46	Bright	44.000	58	21Alp And	2.0730	11000.	88	50002	No
7	GOM_NL__2PRFIN20110922_011013_000000403106_00419_50002_8142.N1	22-SEP-2011 01:10:13	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	50002	No
8	GOM_NL__2PRFIN20110922_011147_000000403106_00419_50002_8143.N1	22-SEP-2011 01:11:47	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	50002	No
9	GOM_NL__2PRFIN20110922_013515_000000513106_00419_50002_8144.N1	22-SEP-2011 01:35:15	Bright	50.500	24	66Alp Gem	1.5800	10200.	101	50002	No
10	GOM_NL__2PRFIN20110922_014443_000000663106_00419_50002_8145.N1	22-SEP-2011 01:44:43	Dark	65.500	8	10Alp CMi	0.40000	6500.0	131	50002	No
11	GOM_NL__2PRFIN20110922_015524_000000573106_00419_50002_8146.N1	22-SEP-2011 01:55:24	Dark	57.000	37	25Del CMa	1.8300	5900.0	114	50002	No
12	GOM_NL__2PRFIN20110922_015714_000000523106_00419_50002_8147.N1	22-SEP-2011 01:57:14	Dark	51.500	117	Pi Pup	2.7060	3800.0	103	50002	No
13	GOM_NL__2PRFIN20110922_020058_000000493106_00419_50002_8146.N1	22-SEP-2011 02:00:58	Dark	49.000	161	Tau Pup	2.9310	4500.0	98	50002	No
14	GOM_NL__2PRFIN20110922_020310_000000433106_00420_50003_8147.N1	22-SEP-2011 02:03:10	Dark	43.000	108	Alp Col	2.6520	15200.	86	50003	No
15	GOM_NL__2PRFIN20110922_021914_000000463106_00420_50003_8148.N1	22-SEP-2011 02:19:14	Straylight	45.500	84	Alp Phe	2.3970	4500.0	91	50003	No
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18	GOM_NL__2PRFIN20110922_024159_000000443106_00420_50003_8151.N1	22-SEP-2011 02:41:59	Bright	44.000	58	21Alp And	2.0730	11000.	88	50003	No
19	GOM_NL__2PRFIN20110922_025026_000000393106_00420_50003_8152.N1	22-SEP-2011 02:50:26	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	50003	No
20	GOM_NL__2PRFIN20110922_025201_000000393106_00420_50003_8153.N1	22-SEP-2011 02:52:01	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	50003	No
21	GOM_NL__2PRFIN20110922_031529_000000493106_00420_50003_8154.N1	22-SEP-2011 03:15:29	Bright	48.500	24	66Alp Gem	1.5800	10200.	97	50003	No
22	GOM_NL__2PRFIN20110922_032458_000000713106_00420_50003_8155.N1	22-SEP-2011 03:24:58	Dark	70.500	8	10Alp CMi	0.40000	6500.0	141	50003	No
23	GOM_NL__2PRFIN20110922_033539_000000563106_00420_50003_8156.N1	22-SEP-2011 03:35:39	Dark	55.500	37	25Del CMa	1.8300	5900.0	111	50003	No
24	GOM_NL__2PRFIN20110922_033729_000000513106_00420_50003_8157.N1	22-SEP-2011 03:37:29	Dark	51.000	117	Pi Pup	2.7060	3800.0	102	50003	No
25	GOM_NL__2PRFIN20110922_220516_000000533107_00001_50015_8516.N1	22-SEP-2011 22:05:16	Dark	52.500	2	Alp Car	-0.73600	7000.0	105	50015	No

3. Quality information per product

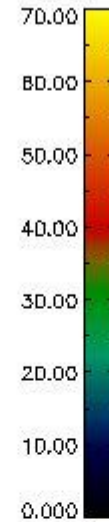
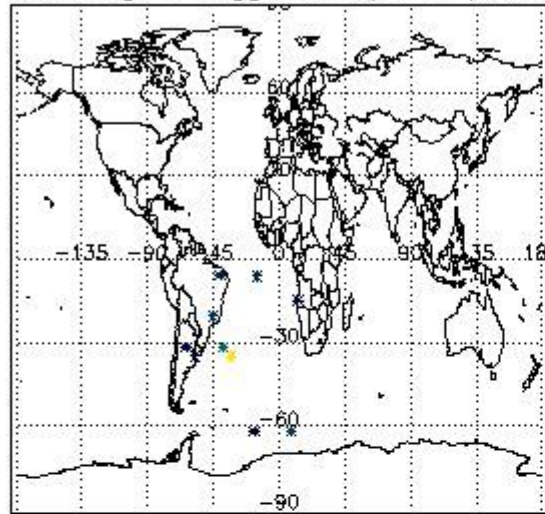
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

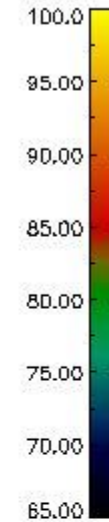
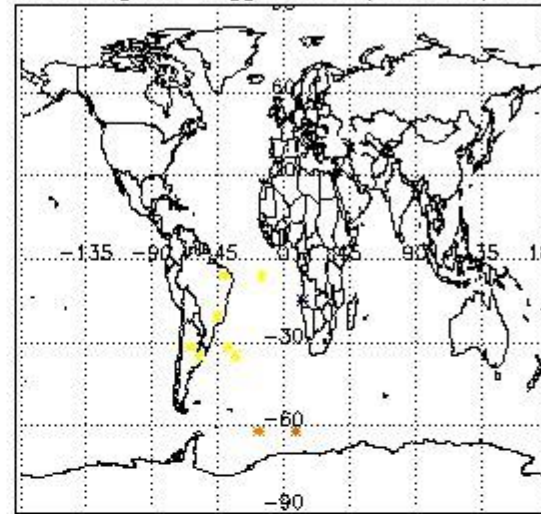


3.2 Plot quality information per product (world map)

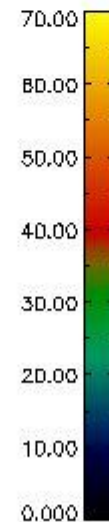
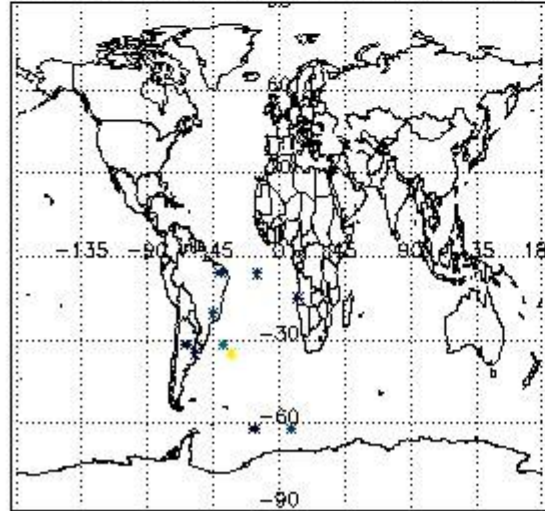
Percentage of flagged data per O3 profile



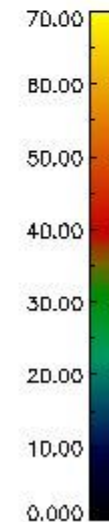
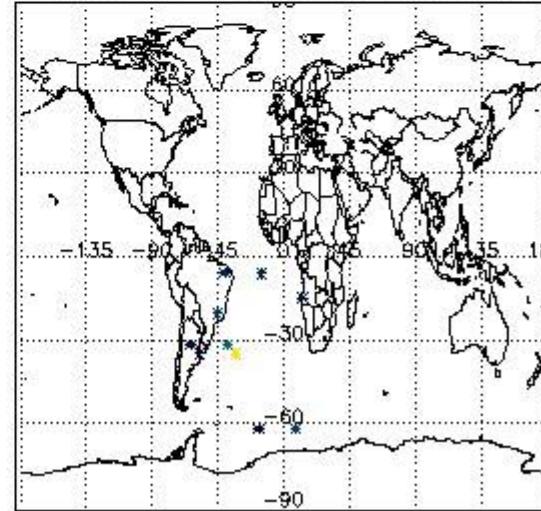
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

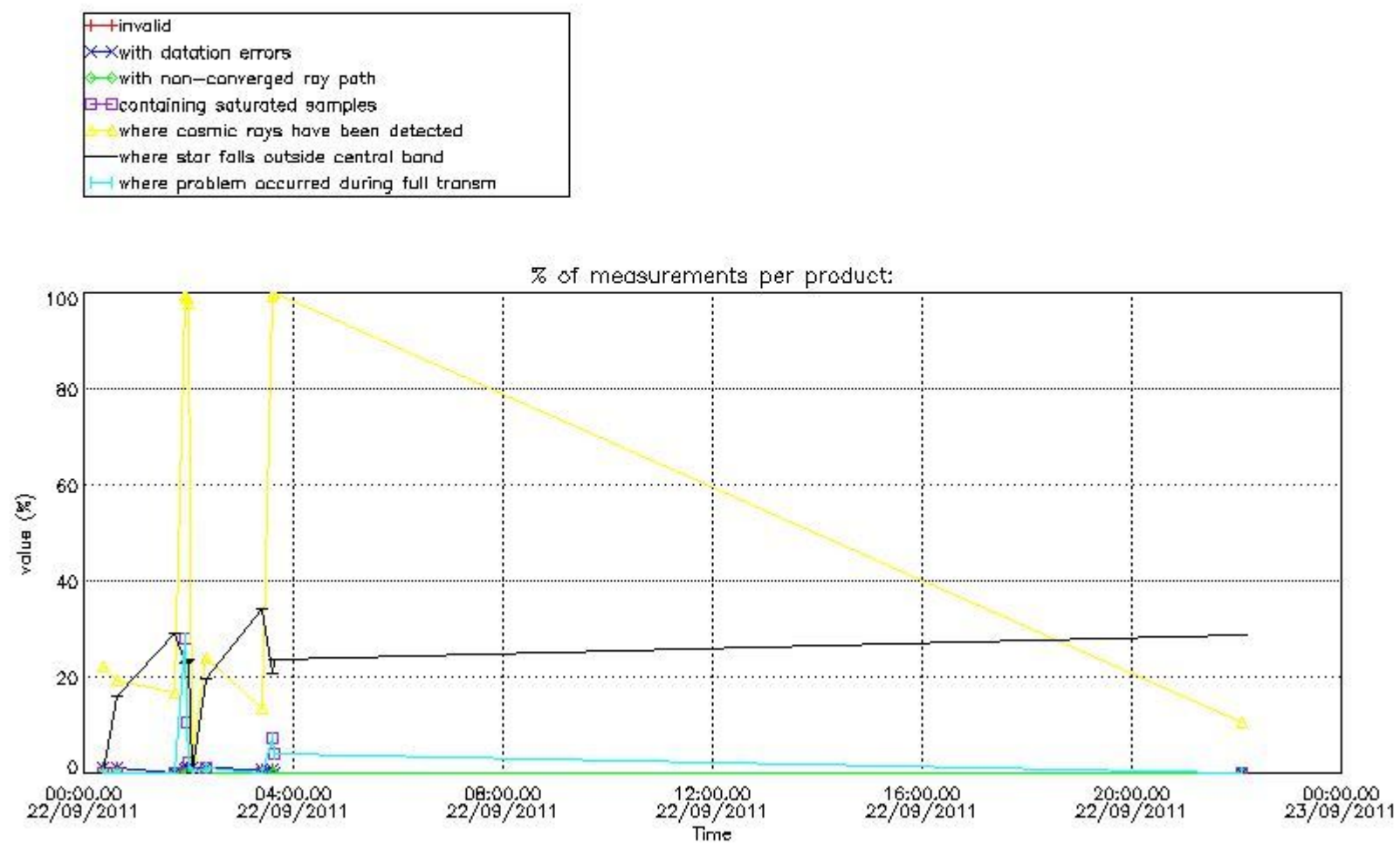


4. Level 1 quality information per product

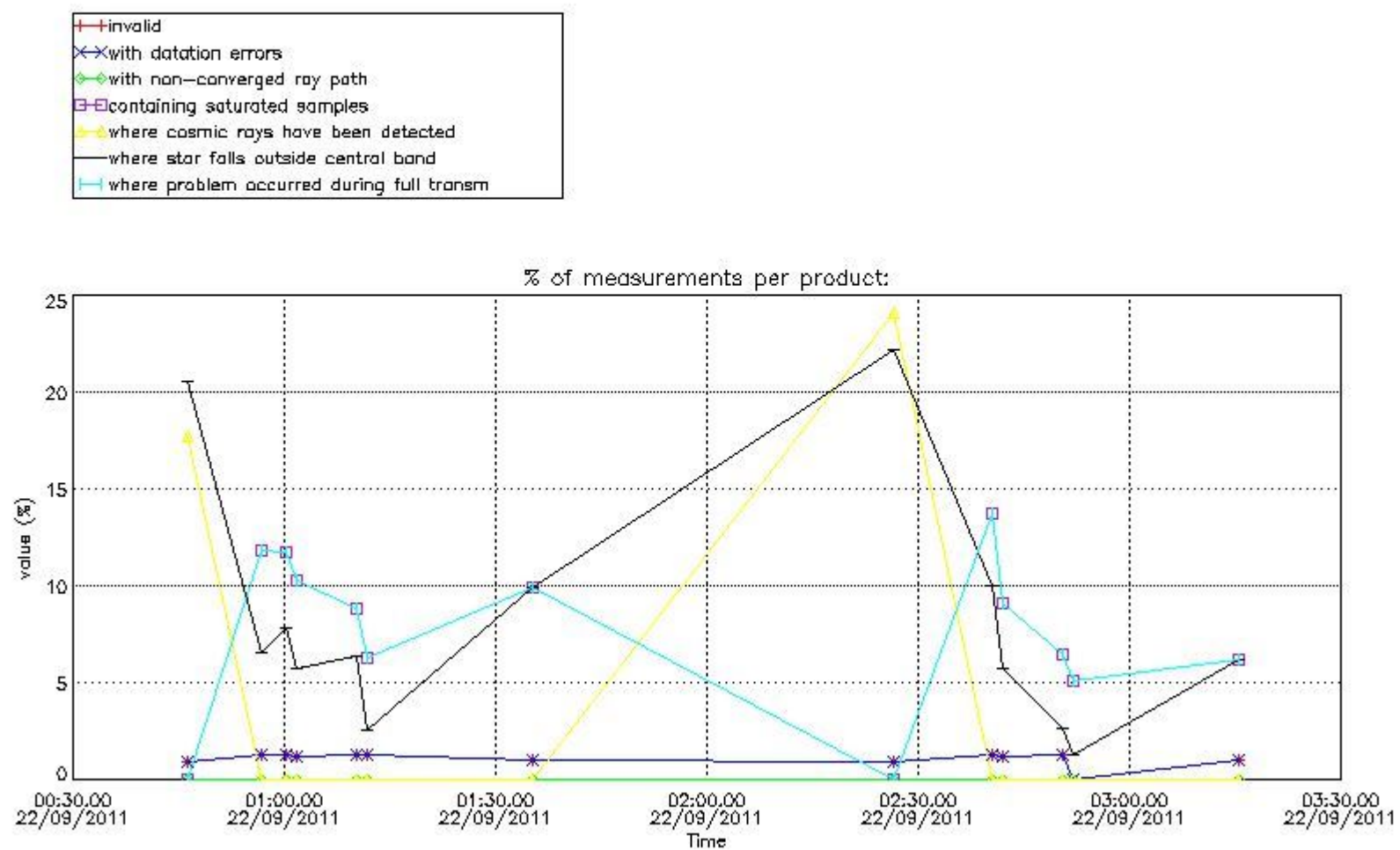
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



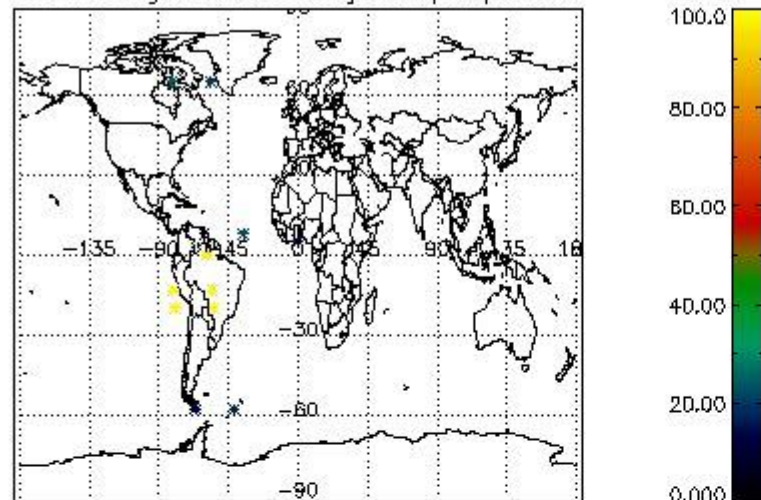
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



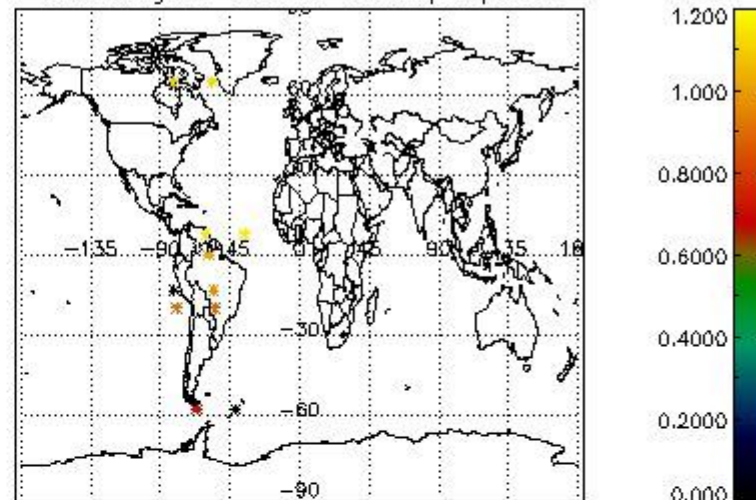
4.2 Plot quality information per product coming from level 1b processing (world map)

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

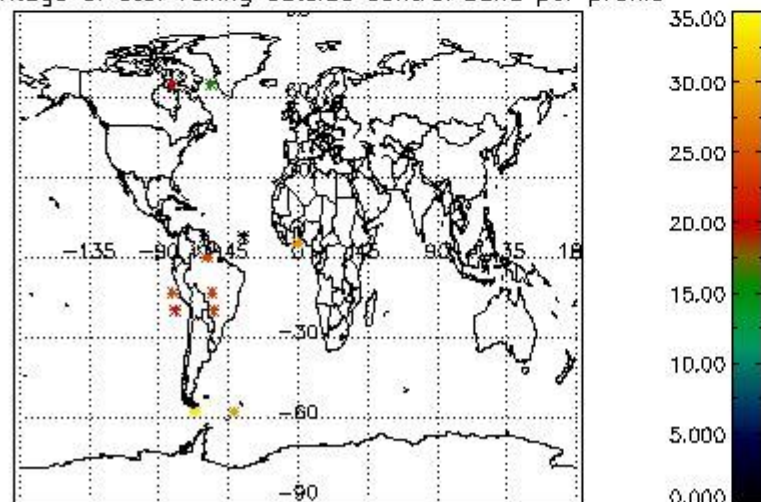
Percentage of cosmic ray hits per profile



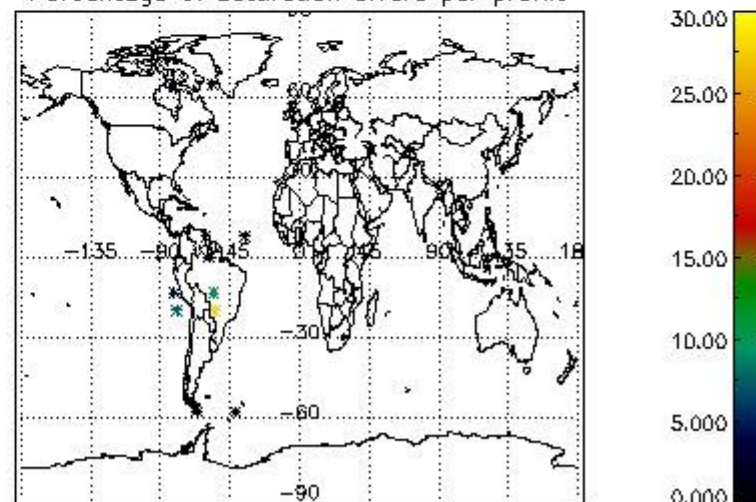
Percentage of datation errors per profile



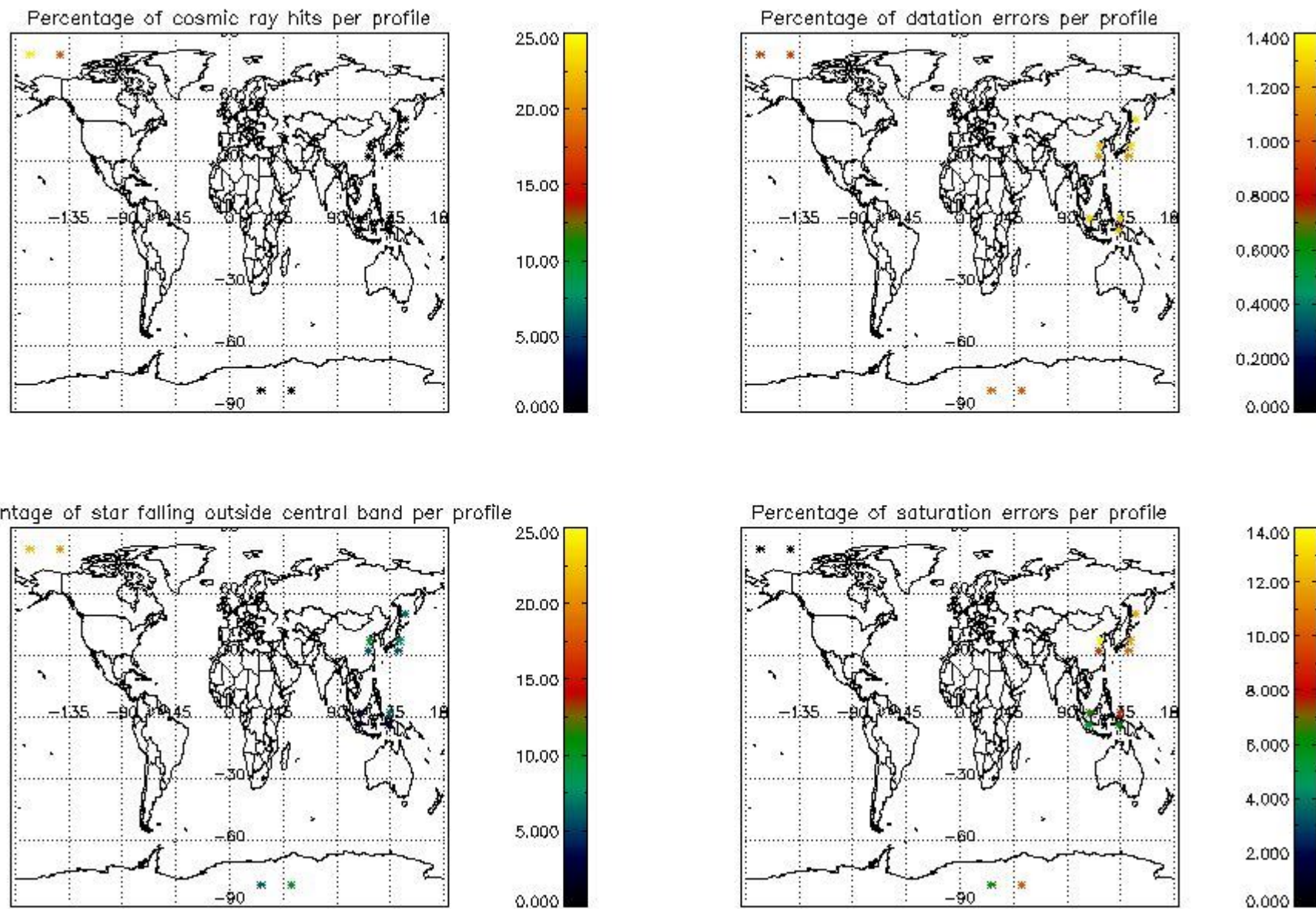
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

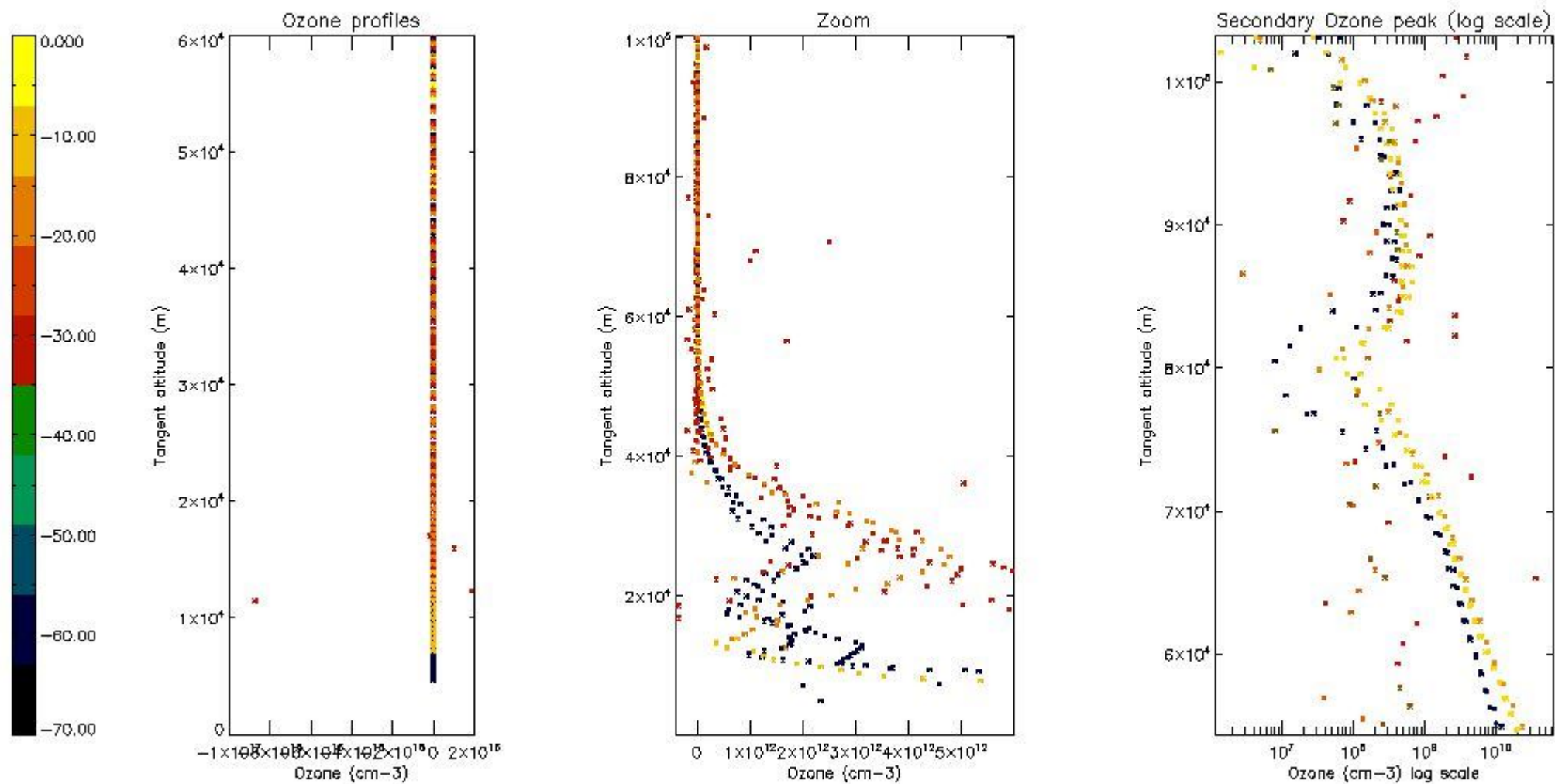
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	44
STD < 20	17

STD < 10	12
STD < 5	8

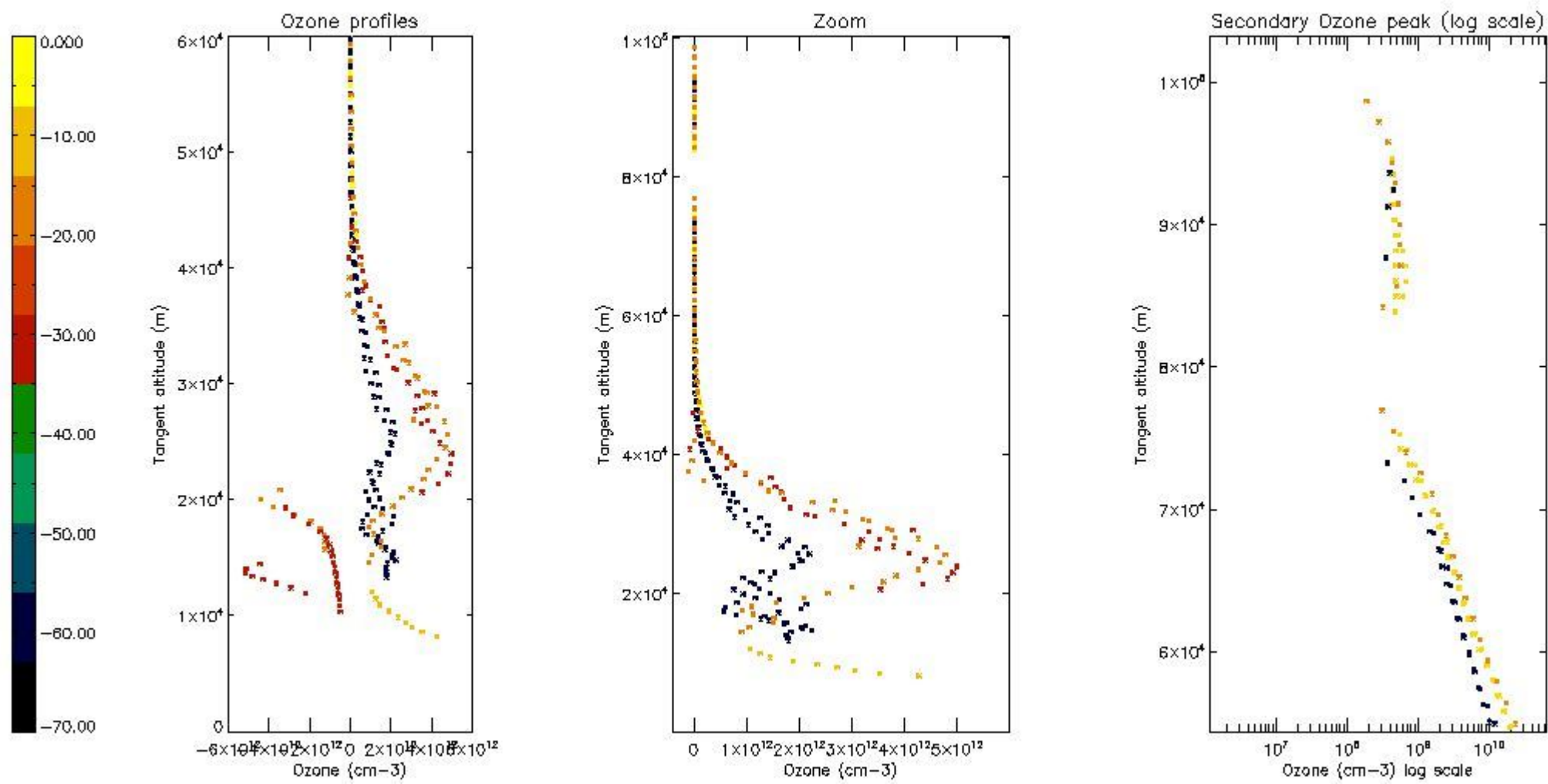
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



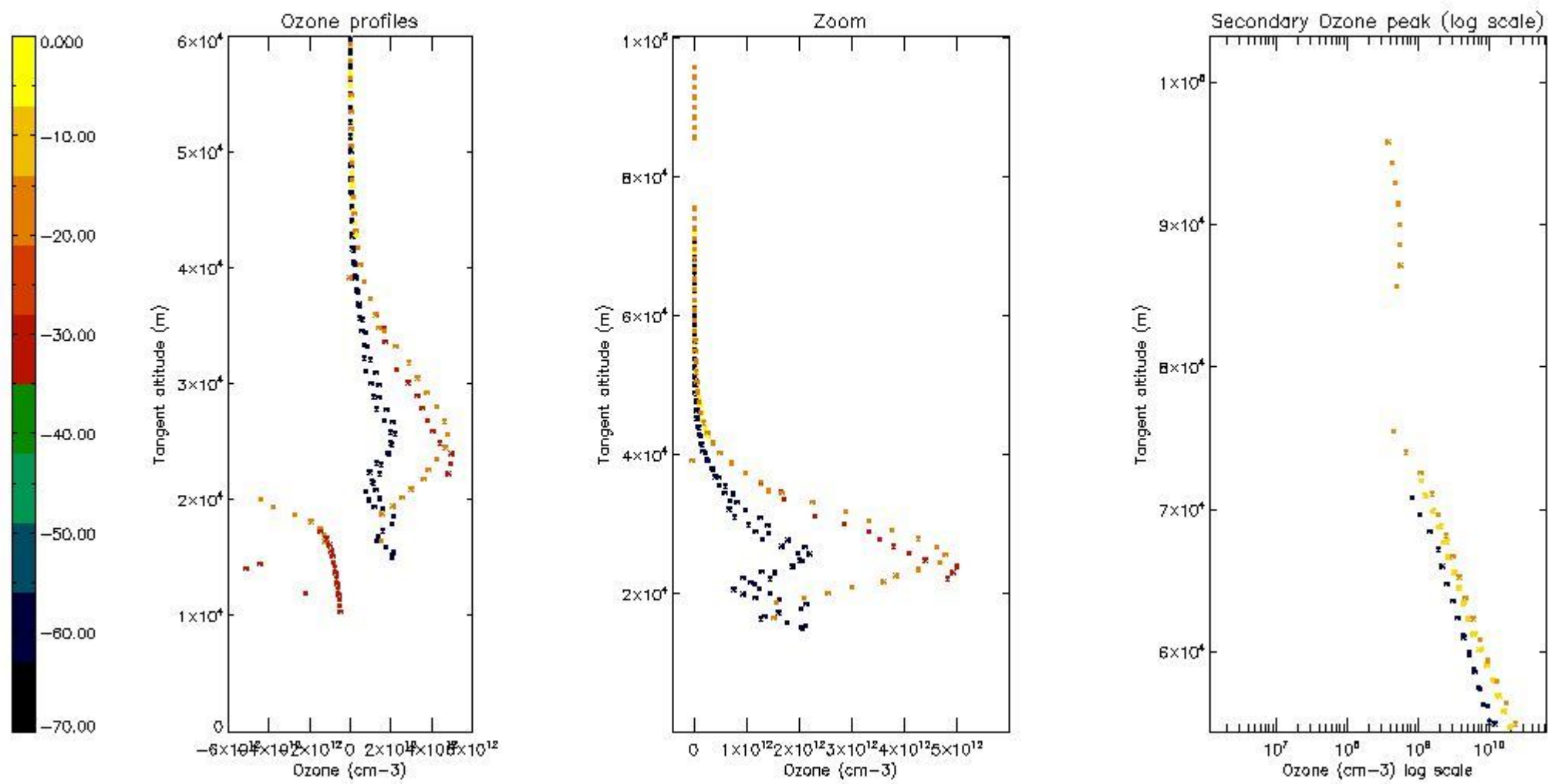
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



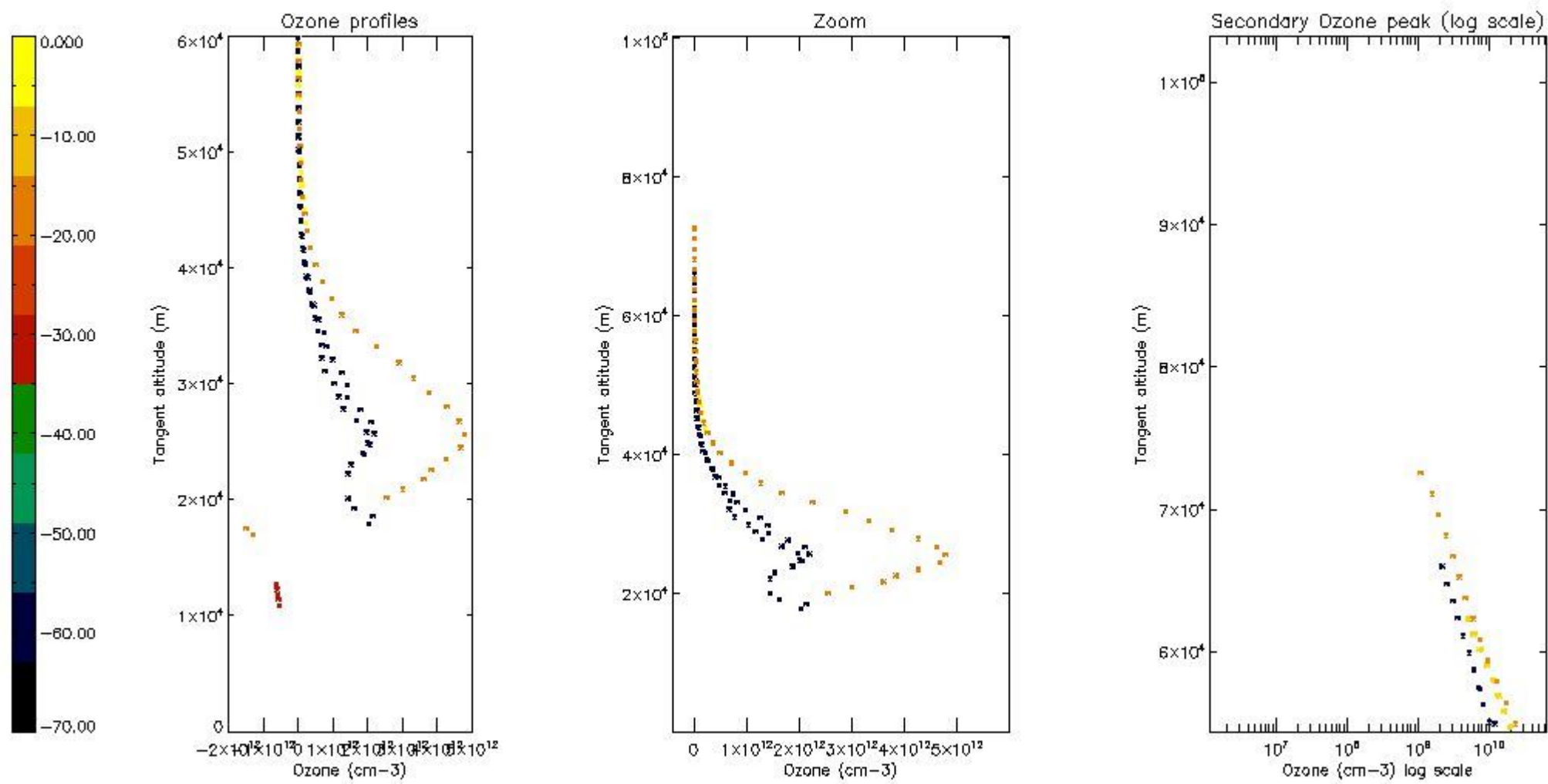
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



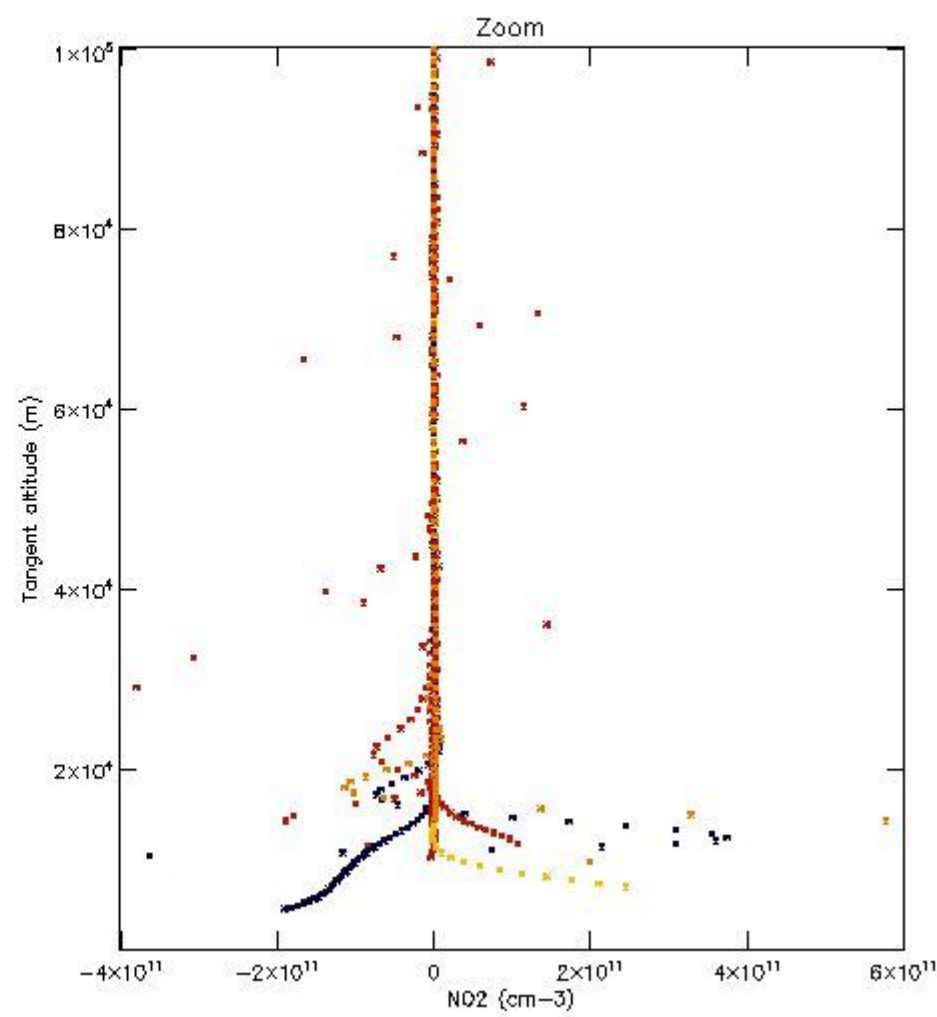
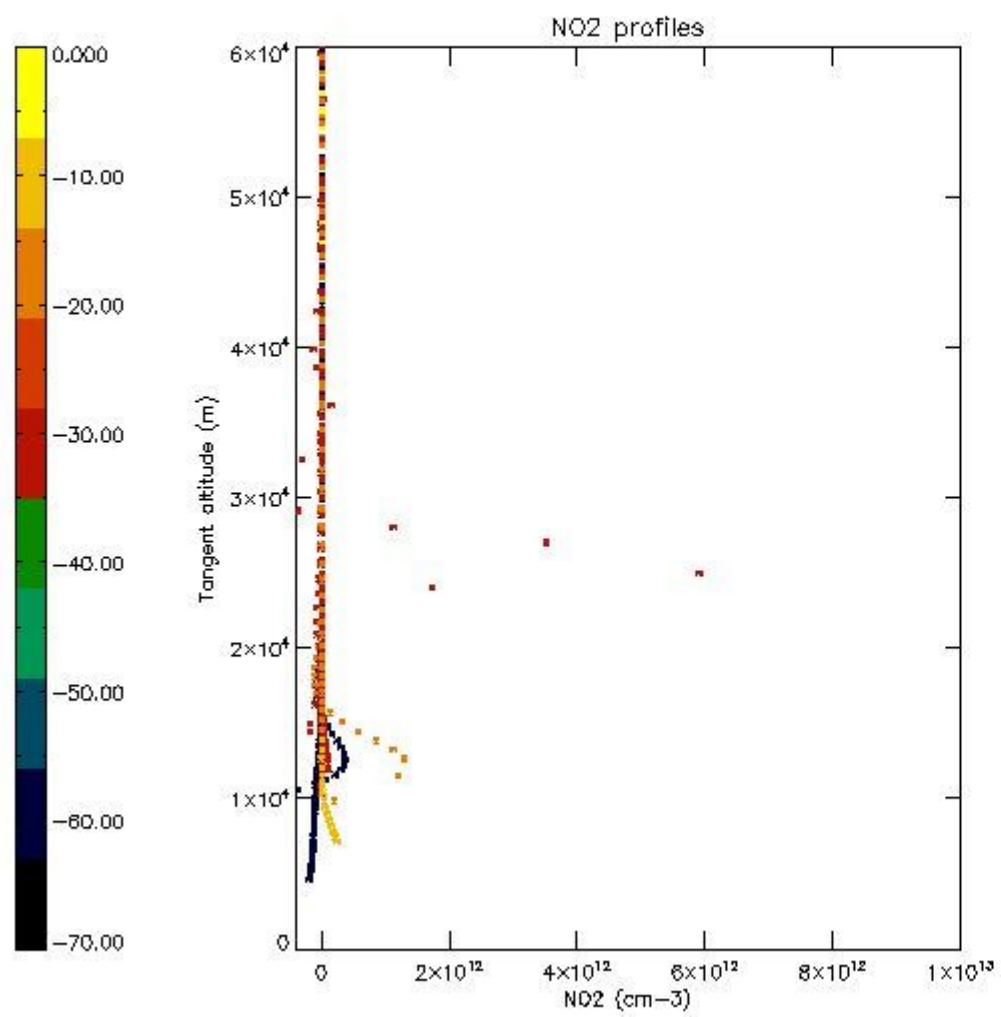
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



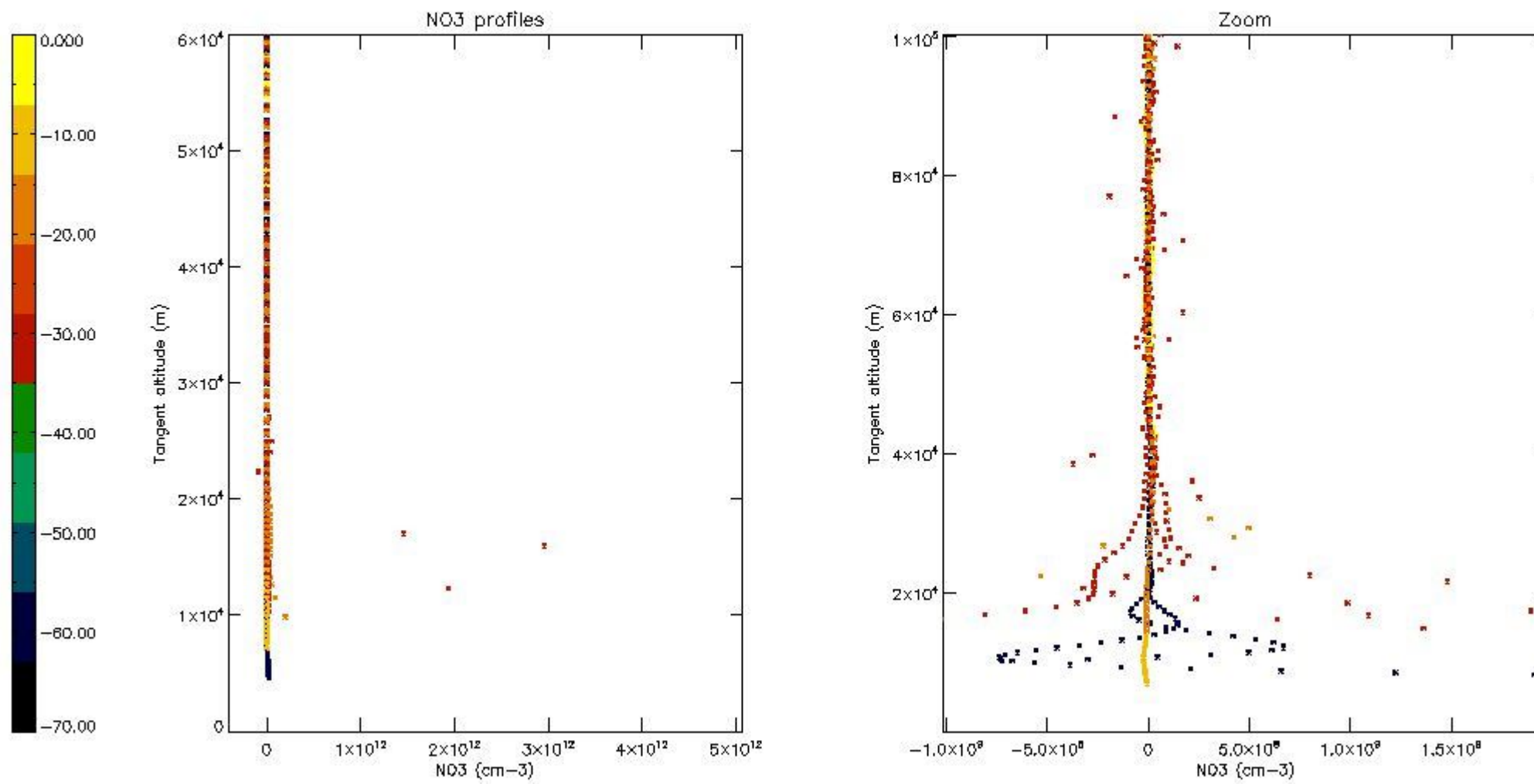
5.6 Plot NO₂ profiles for all STD (dark without errors)

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	22-SEP-2011 00:22:54
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	22-SEP-2011 00:22:54
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	22-SEP-2011 00:22:54

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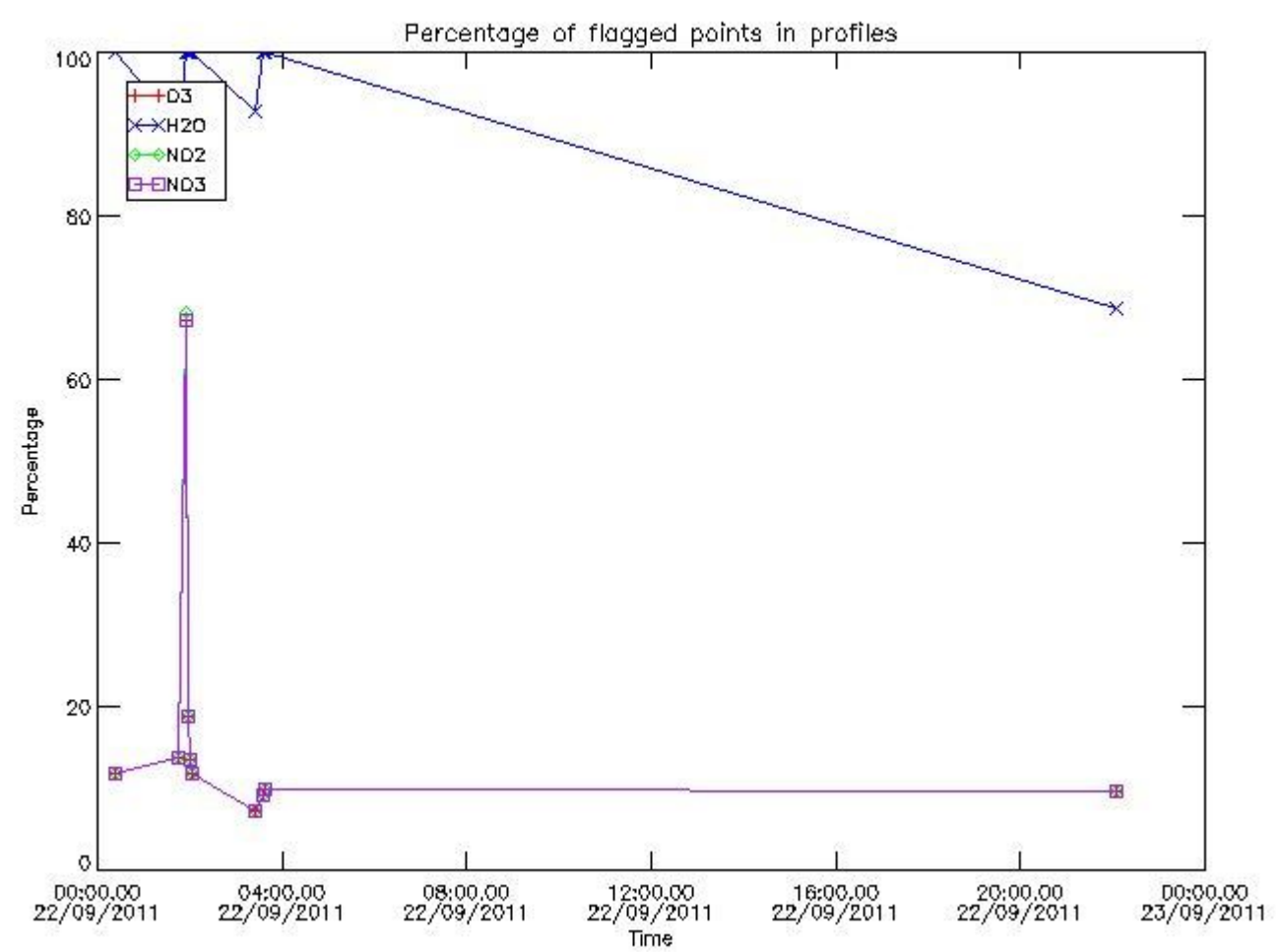
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9	GOM_NL__2PRFIN20110922_013515_000000513106_00419_50002_8144.N1	22-SEP-2011 01:35:15	Bright	50.500	24	66Alp Gem	1.5800	10200.	101	50002	No
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12	GOM_NL__2PRFIN20110922_015714_000000523106_00419_50002_8147.N1	22-SEP-2011 01:57:14	Dark	51.500	117	Pi Pup	2.7060	3800.0	103	50002	No
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19	GOM_NL__2PRFIN20110922_025026_000000393106_00420_50003_8152.N1	22-SEP-2011 02:50:26	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	50003	No
20	GOM_NL__2PRFIN20110922_025201_000000393106_00420_50003_8153.N1	22-SEP-2011 02:52:01	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	50003	No
21	GOM_NL__2PRFIN20110922_031529_000000493106_00420_50003_8154.N1	22-SEP-2011 03:15:29	Bright	48.500	24	66Alp Gem	1.5800	10200.	97	50003	No
22	GOM_NL__2PRFIN20110922_032458_000000713106_00420_50003_8155.N1	22-SEP-2011 03:24:58	Dark	70.500	8	10Alp CMi	0.40000	6500.0	141	50003	No
23	GOM_NL__2PRFIN20110922_033539_000000563106_00420_50003_8156.N1	22-SEP-2011 03:35:39	Dark	55.500	37	25Del CMa	1.8300	5900.0	111	50003	No
24	GOM_NL__2PRFIN20110922_033729_000000513106_00420_50003_8157.N1	22-SEP-2011 03:37:29	Dark	51.000	117	Pi Pup	2.7060	3800.0	102	50003	No
25	GOM_NL__2PRFIN20110922_220516_000000533107_00001_50015_8516.N1	22-SEP-2011 22:05:16	Dark	52.500	2	Alp Car	-0.73600	7000.0	105	50015	No

3. Quality information per product

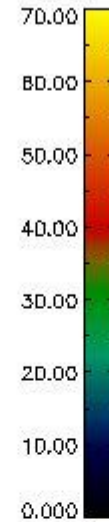
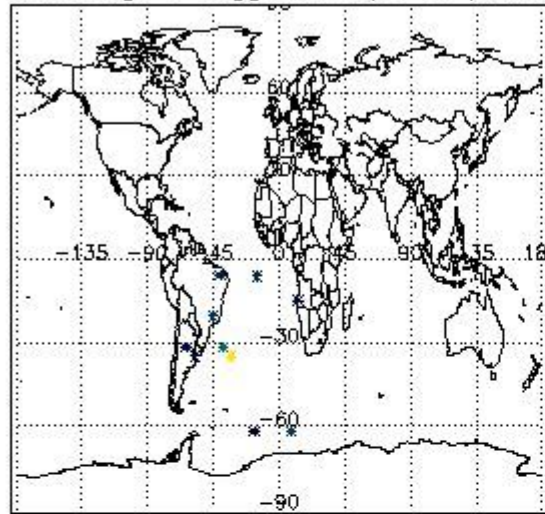
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

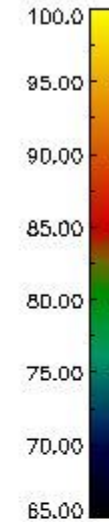
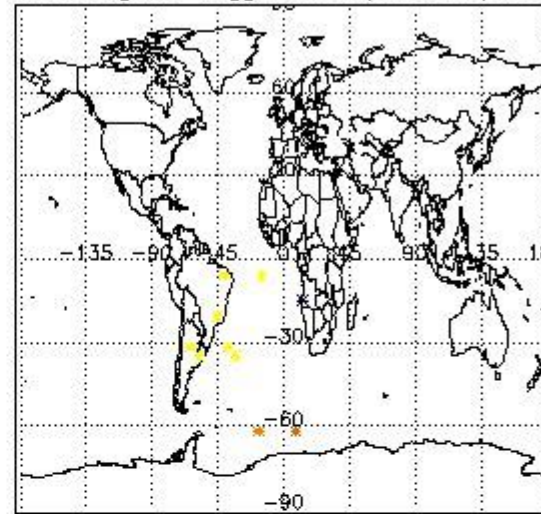


3.2 Plot quality information per product (world map)

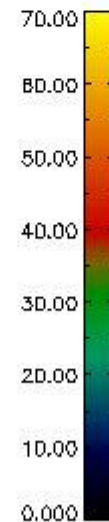
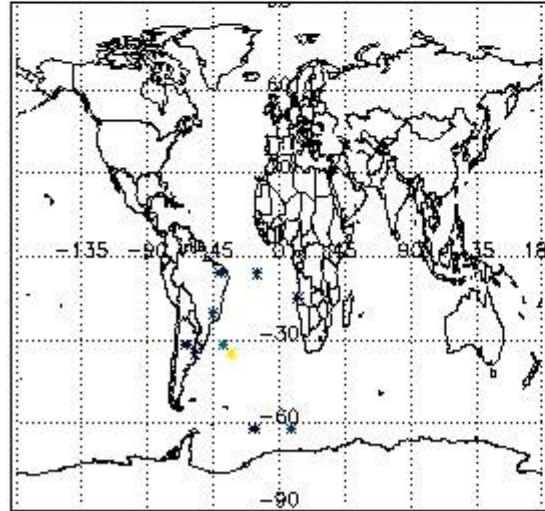
Percentage of flagged data per O3 profile



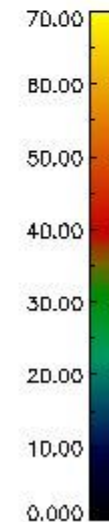
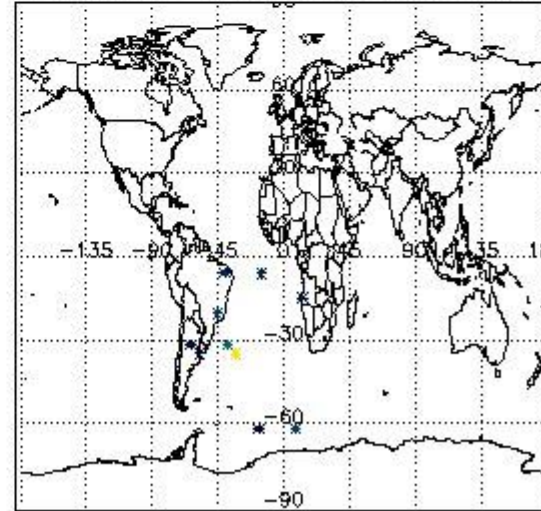
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

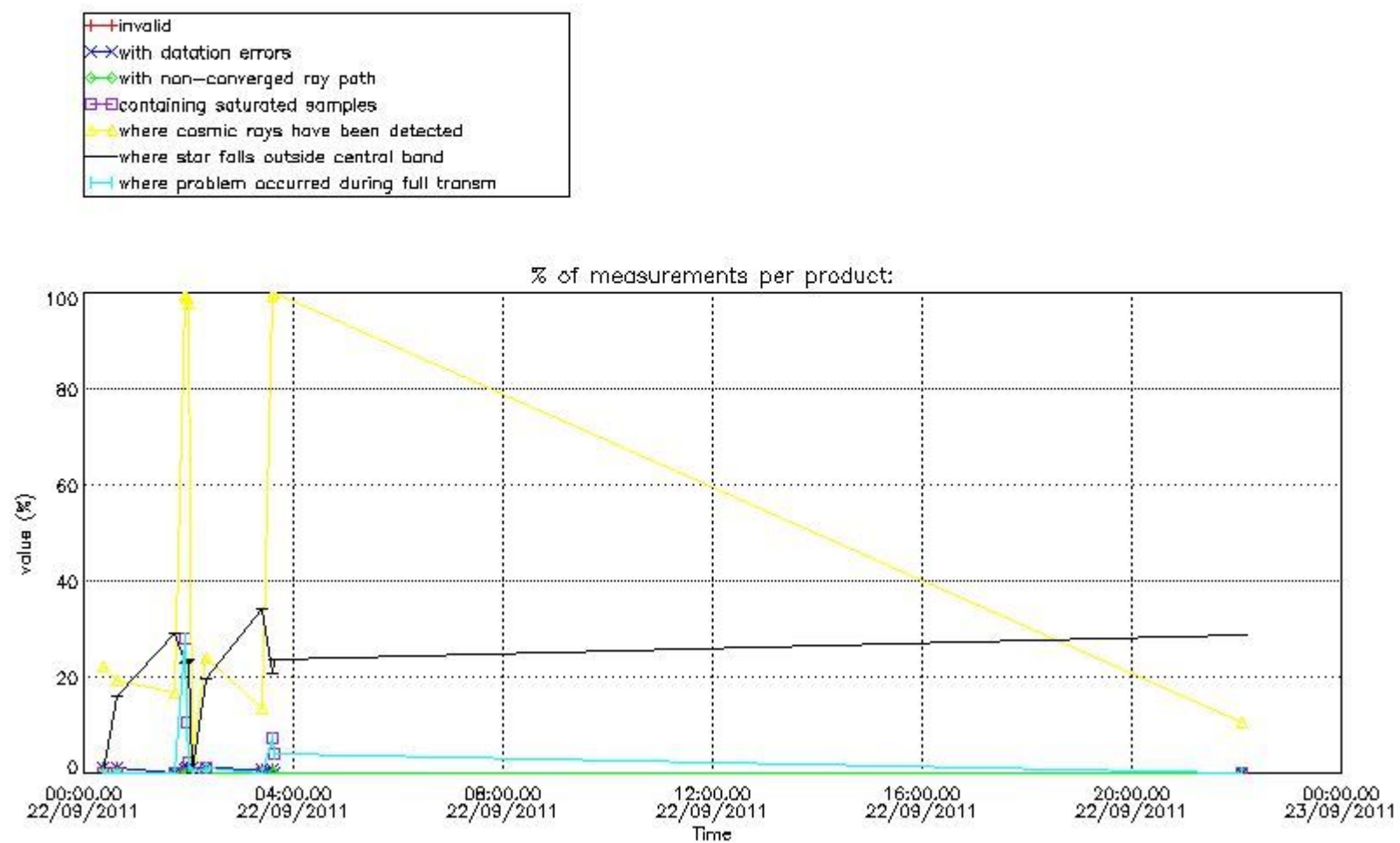


4. Level 1 quality information per product

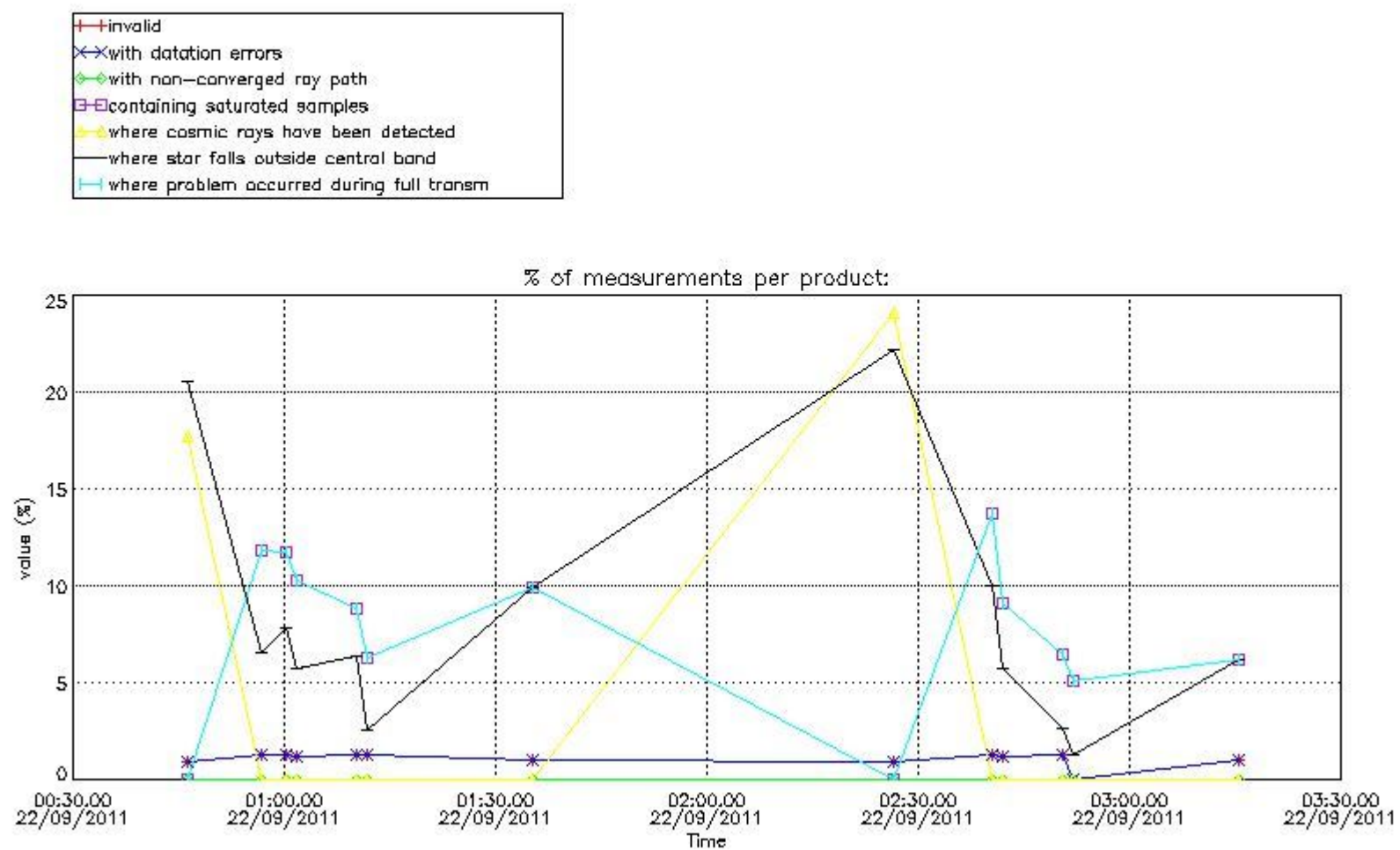
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



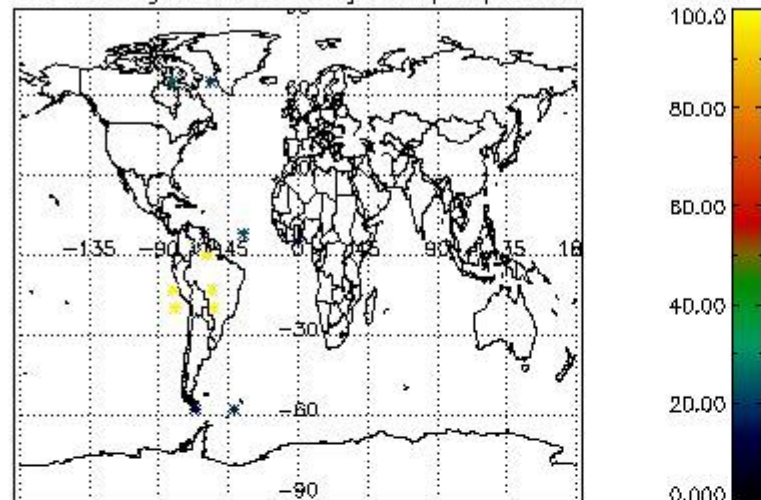
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



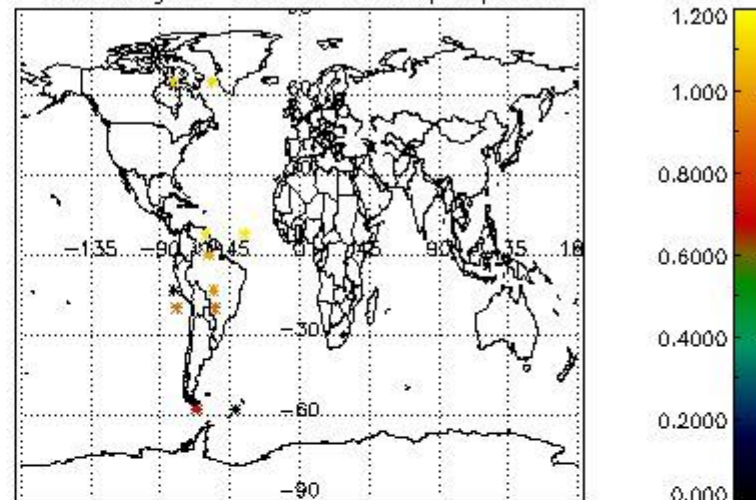
4.2 Plot quality information per product coming from level 1b processing (world map)

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

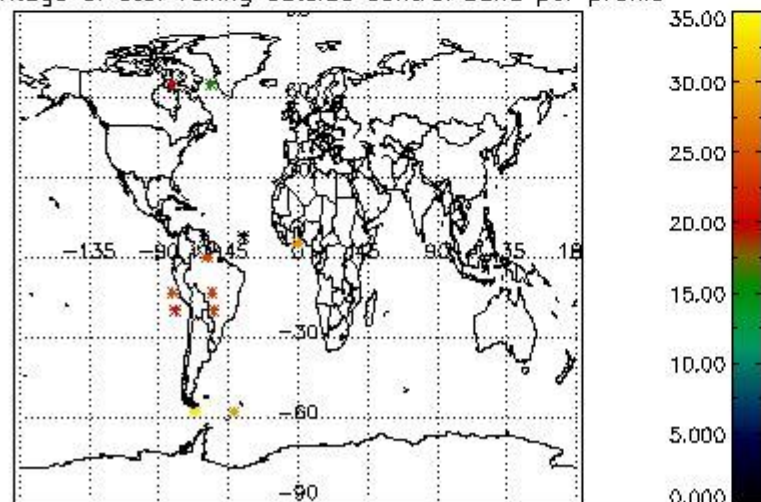
Percentage of cosmic ray hits per profile



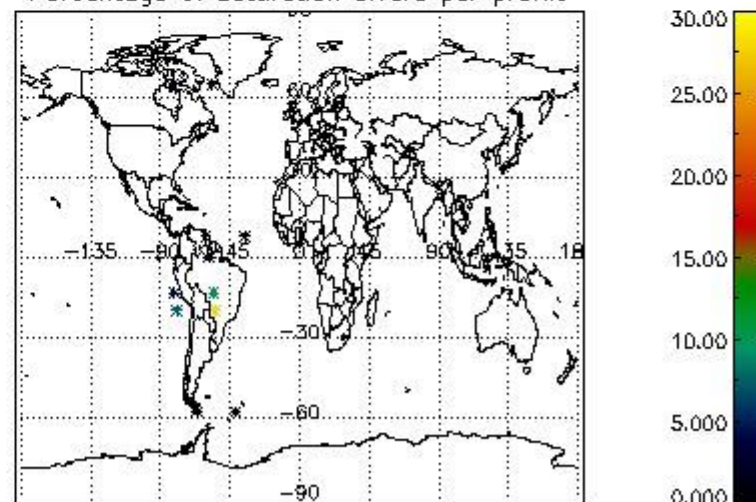
Percentage of datation errors per profile



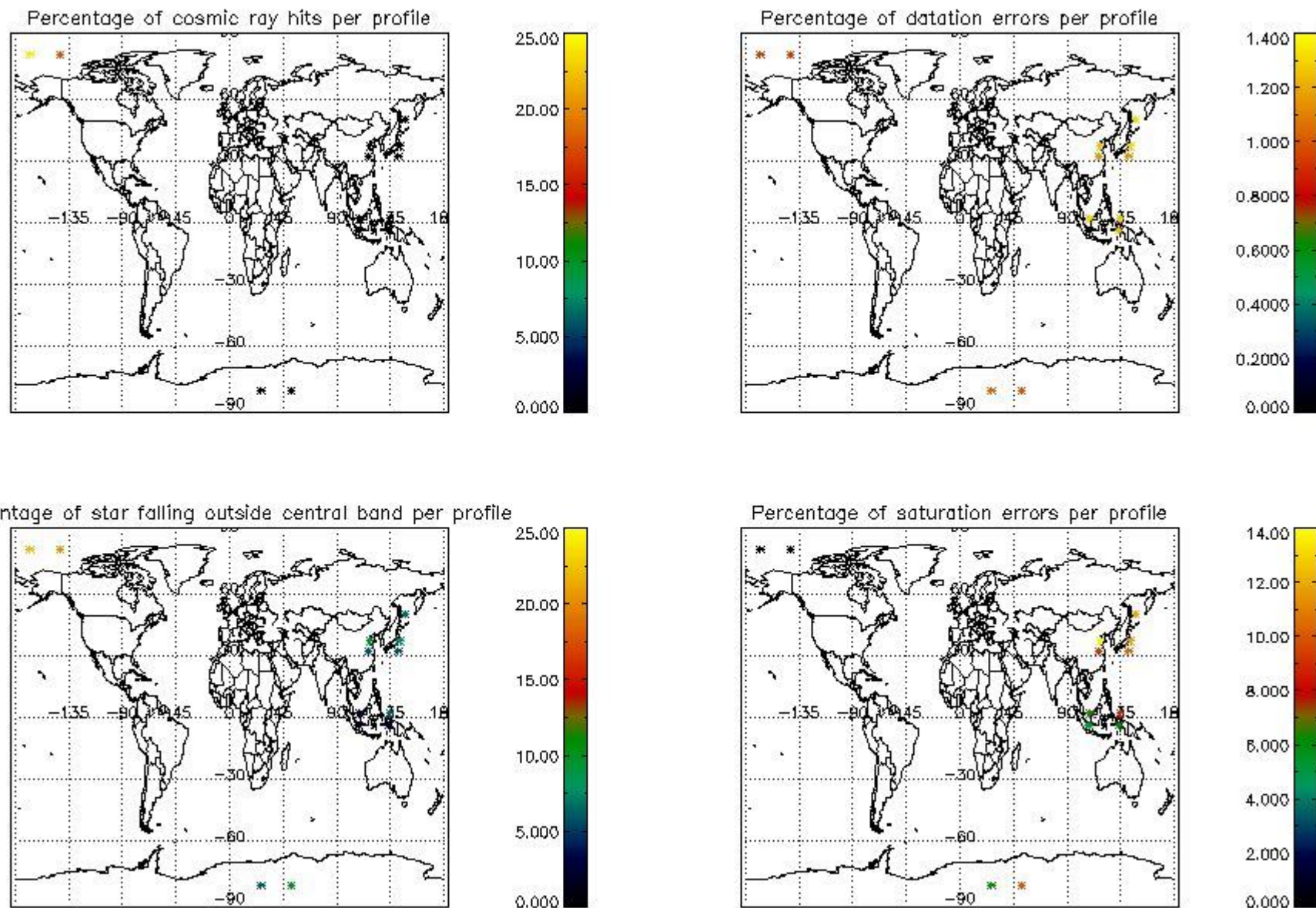
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

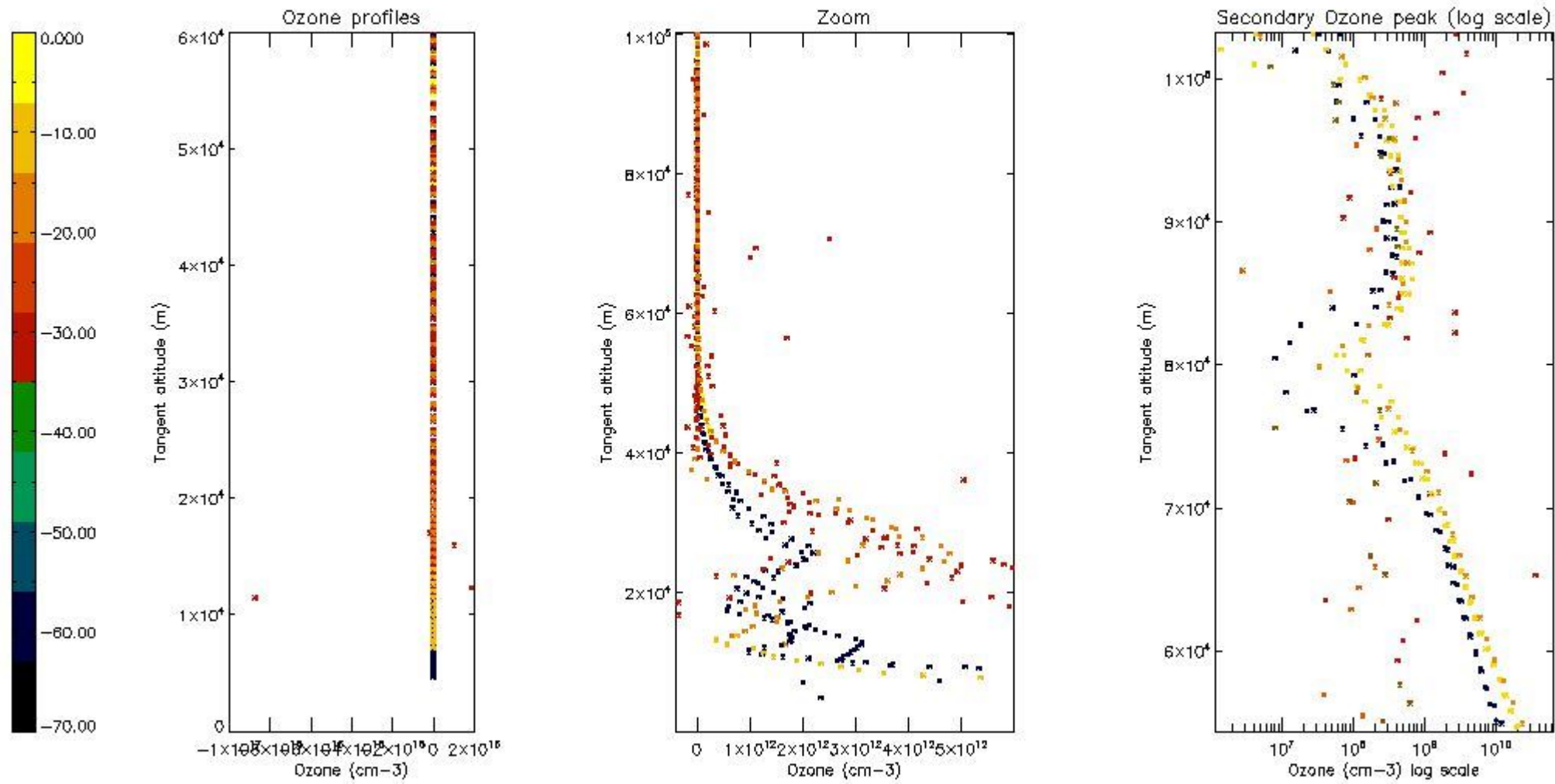
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	44
STD < 20	17

STD < 10	12
STD < 5	8

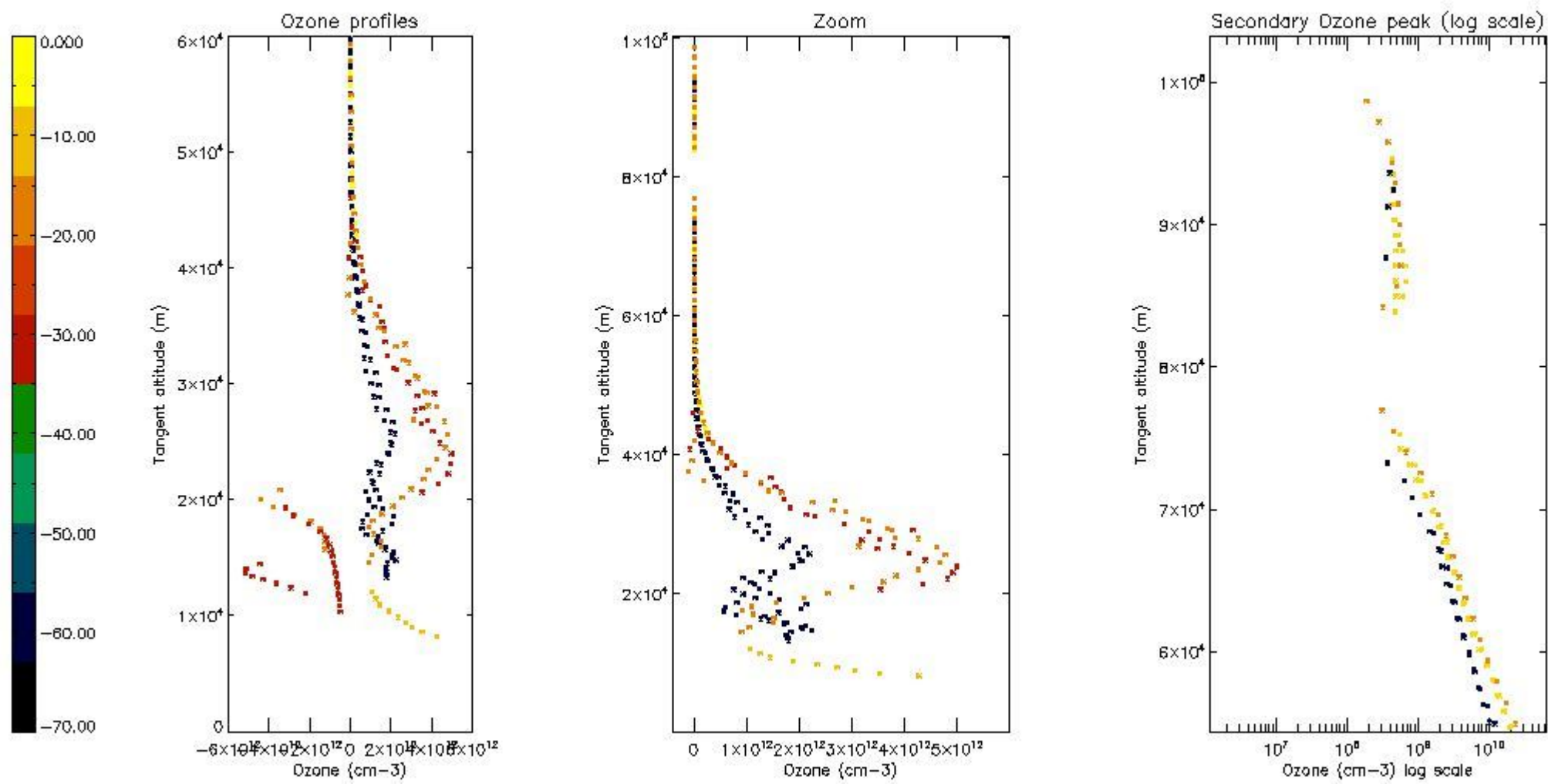
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



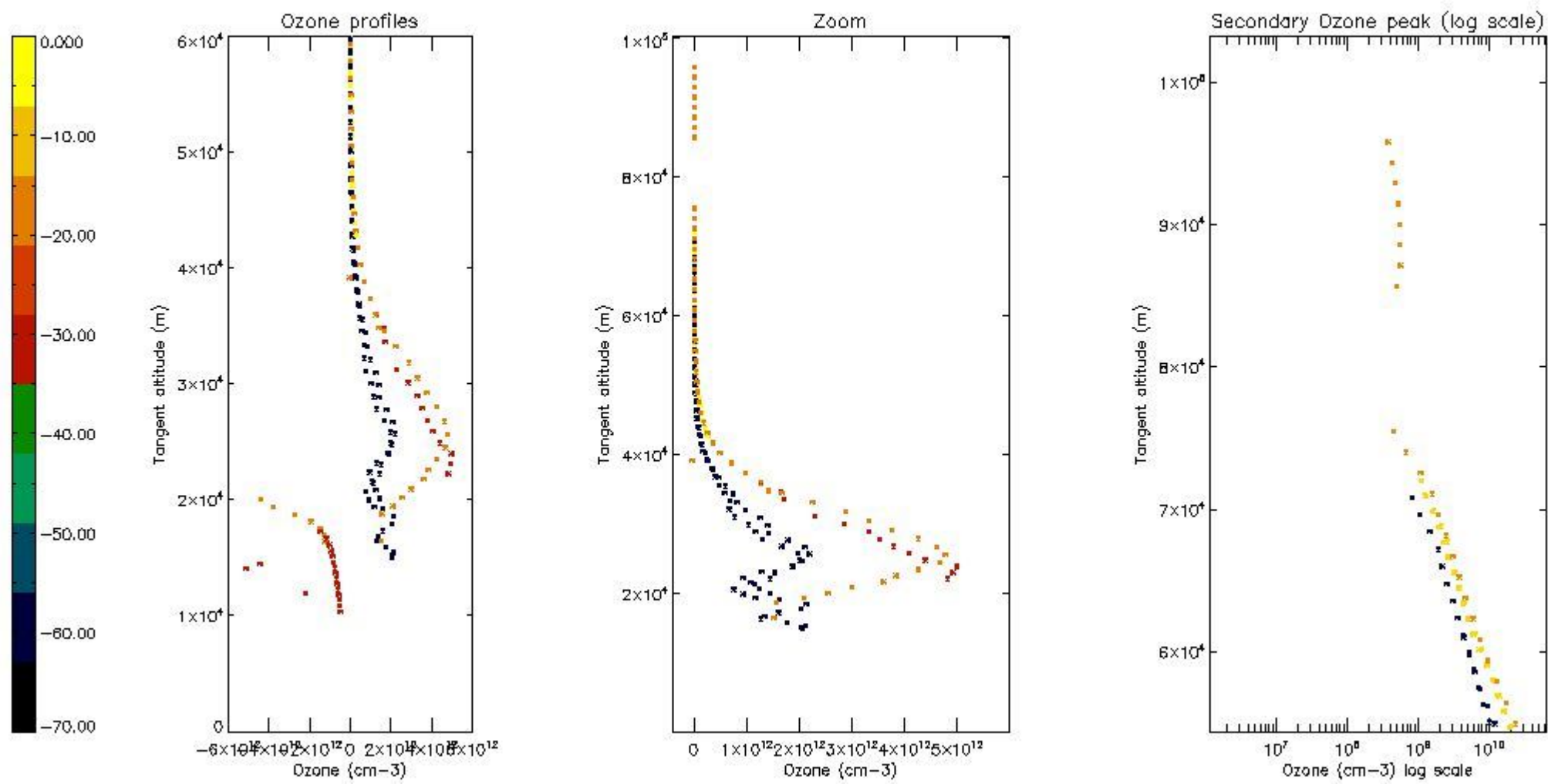
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



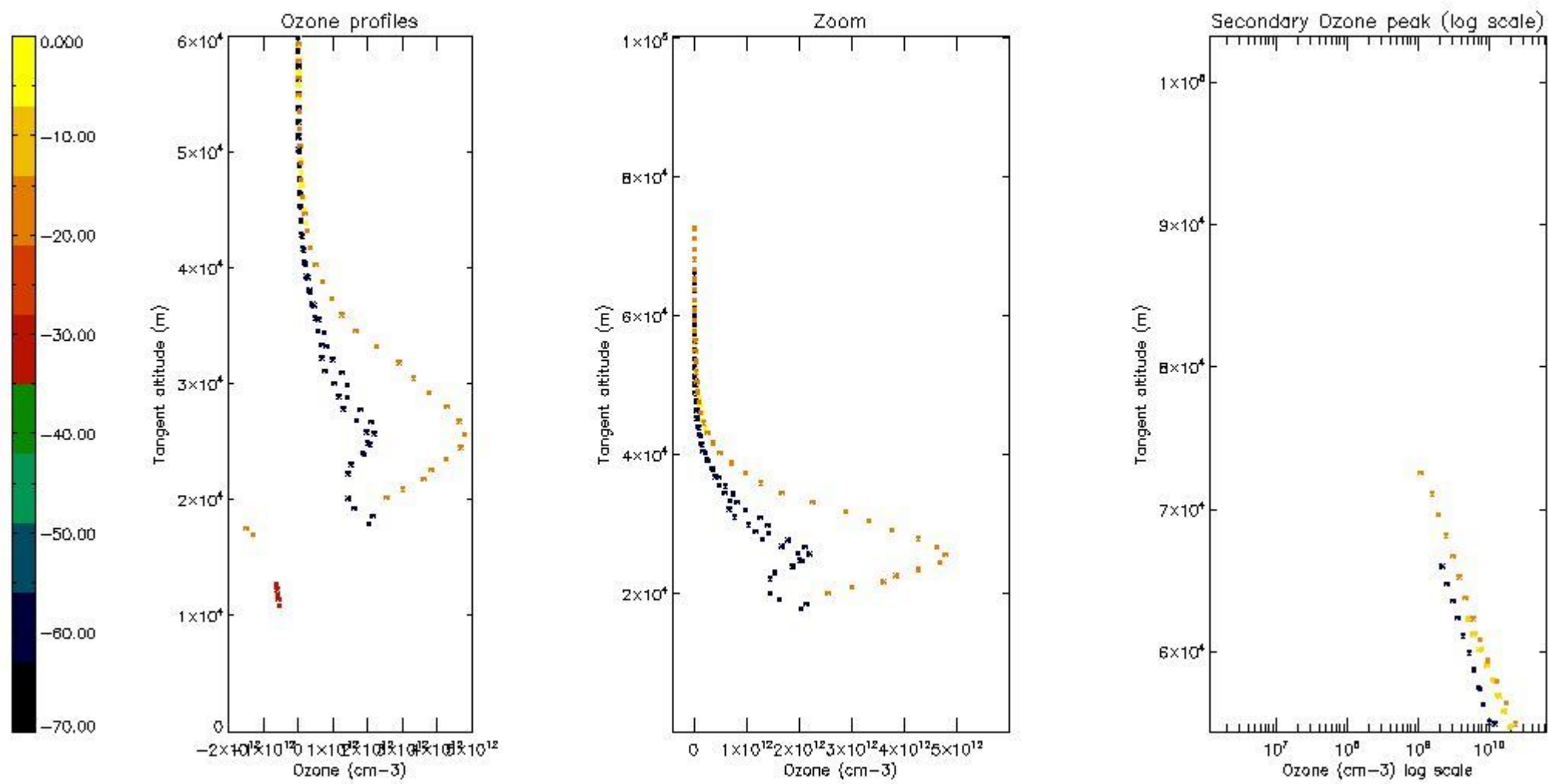
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



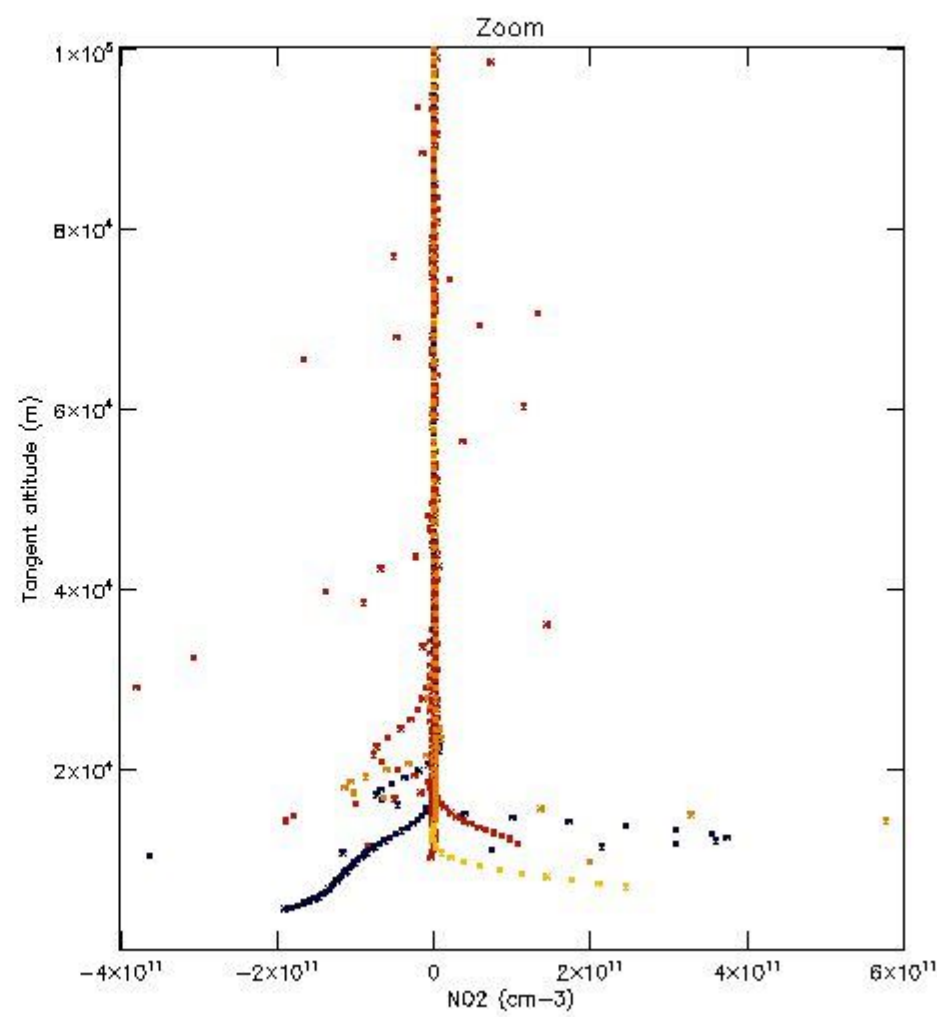
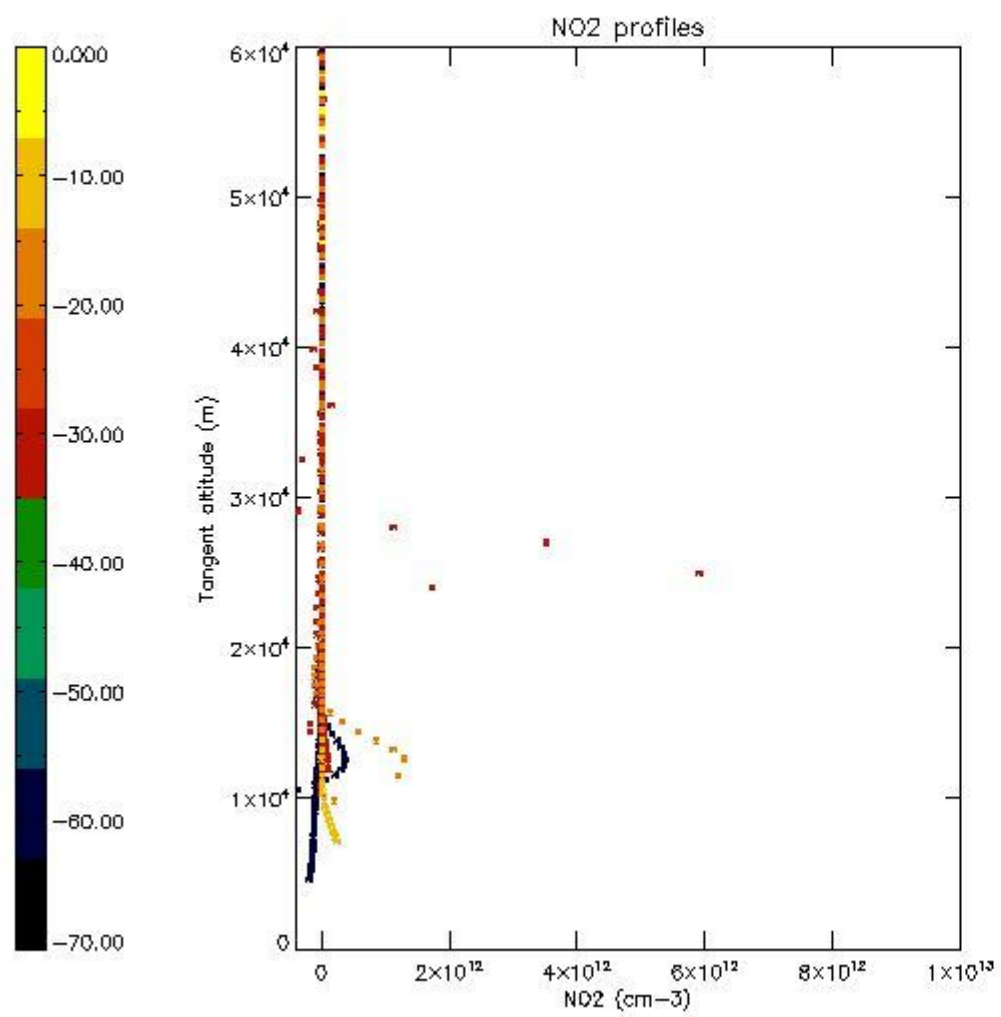
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



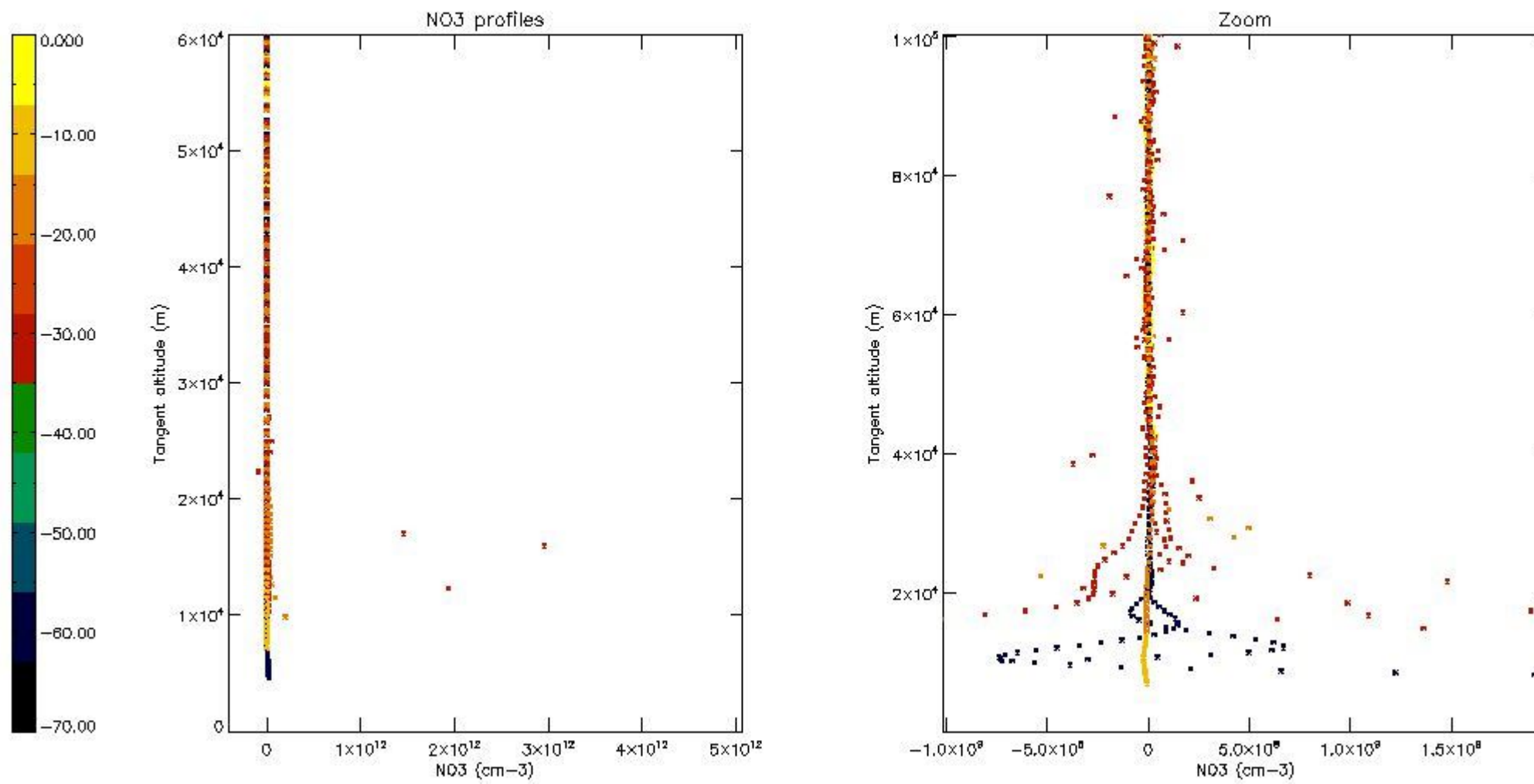
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

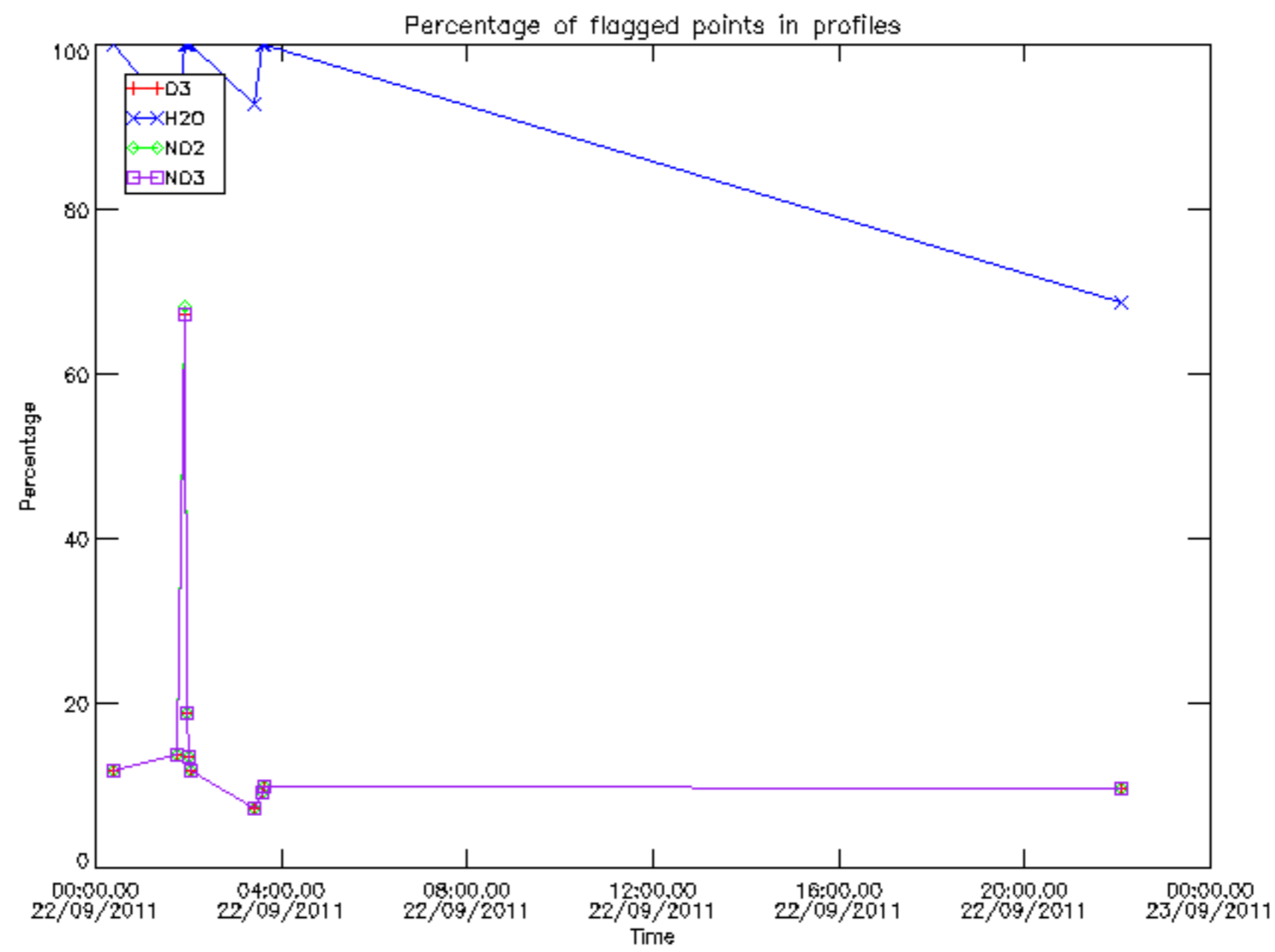
The colorbar represents the latitude.



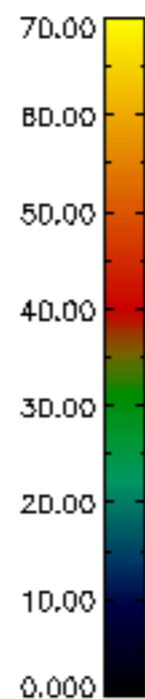
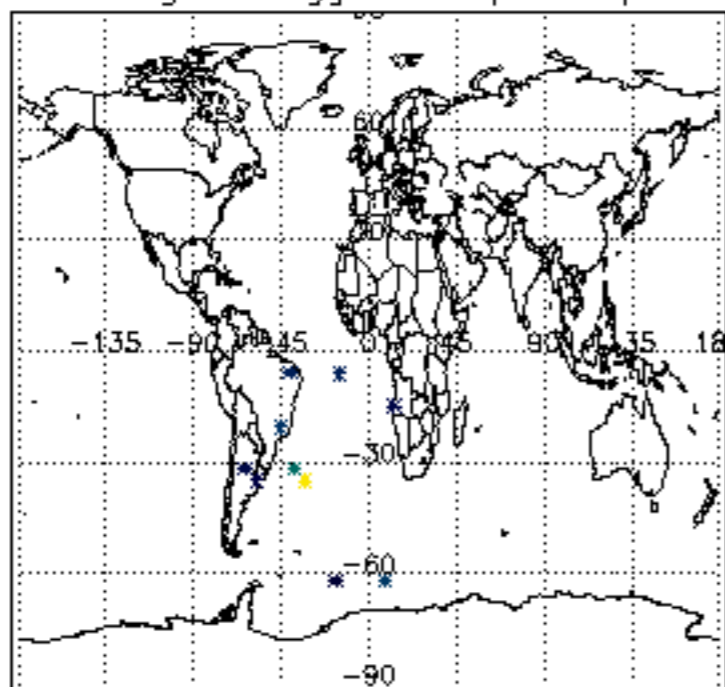
6. Auxiliary Data Files used for the production reported in section 2

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.

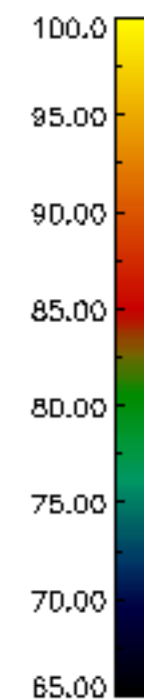
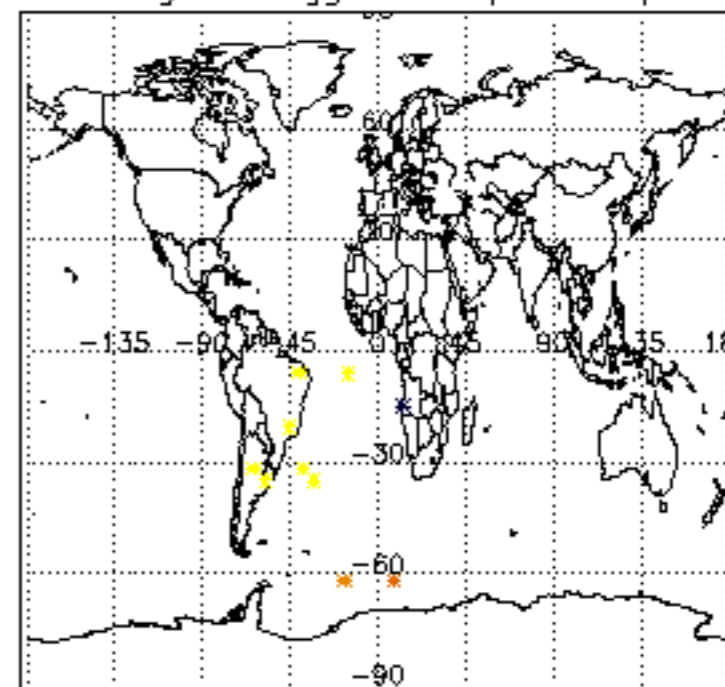
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	22-SEP-2011 00:22:54
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	22-SEP-2011 00:22:54
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	22-SEP-2011 00:22:54



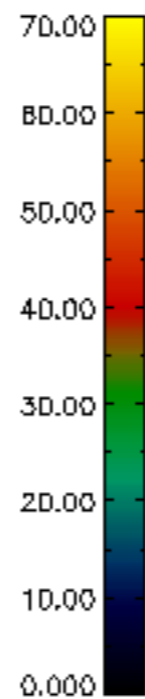
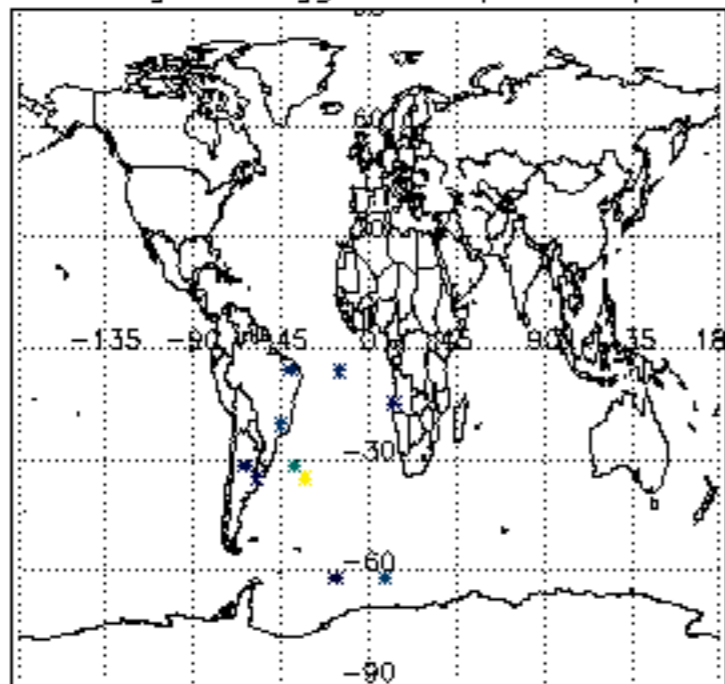
Percentage of flagged data per D3 profile



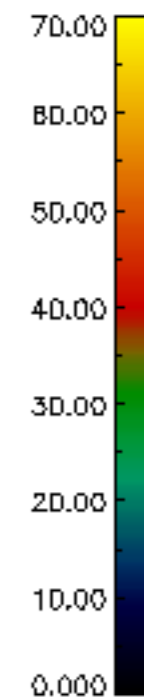
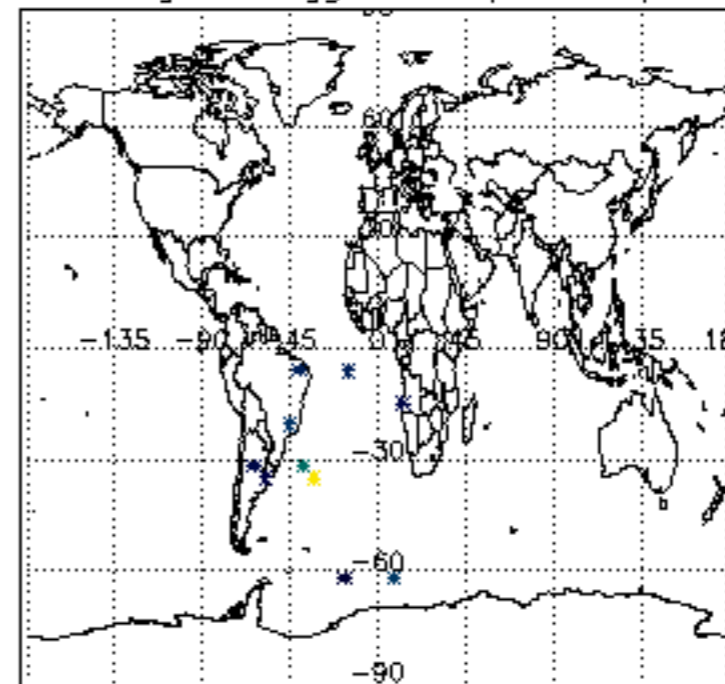
Percentage of flagged data per H2O profile

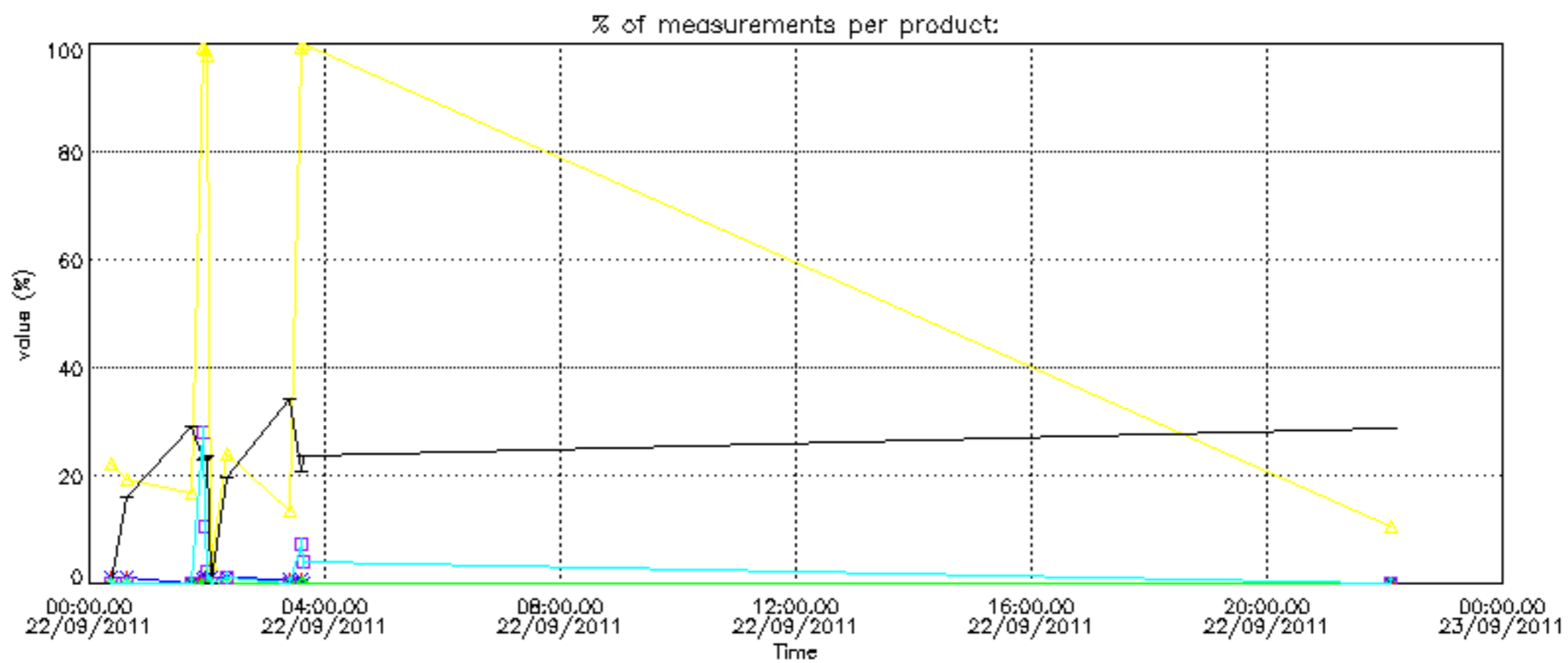


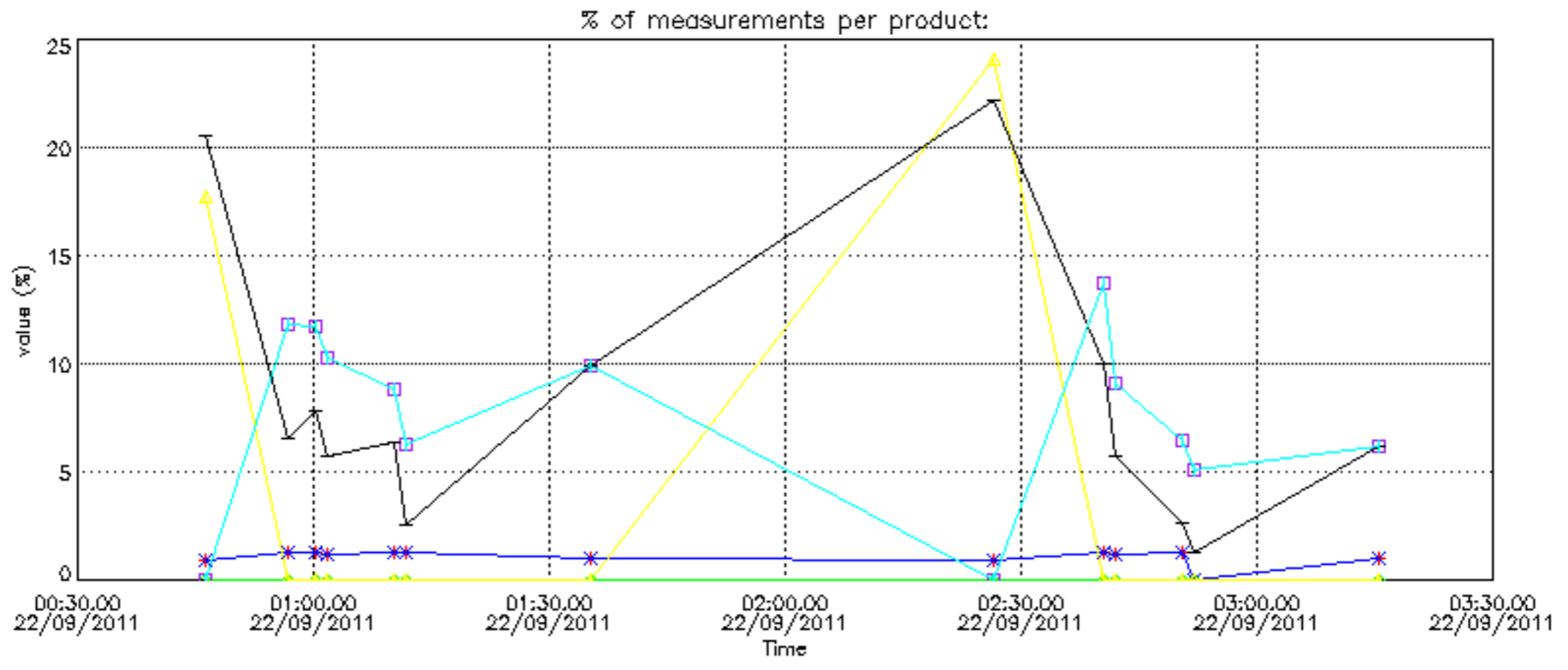
Percentage of flagged data per NO2 profile



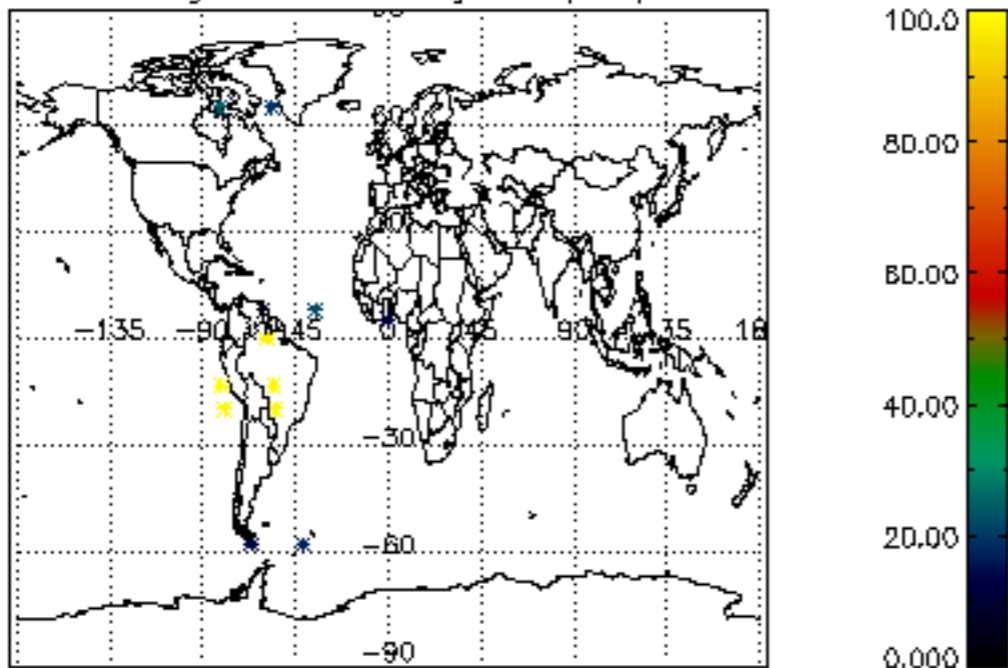
Percentage of flagged data per NO3 profile



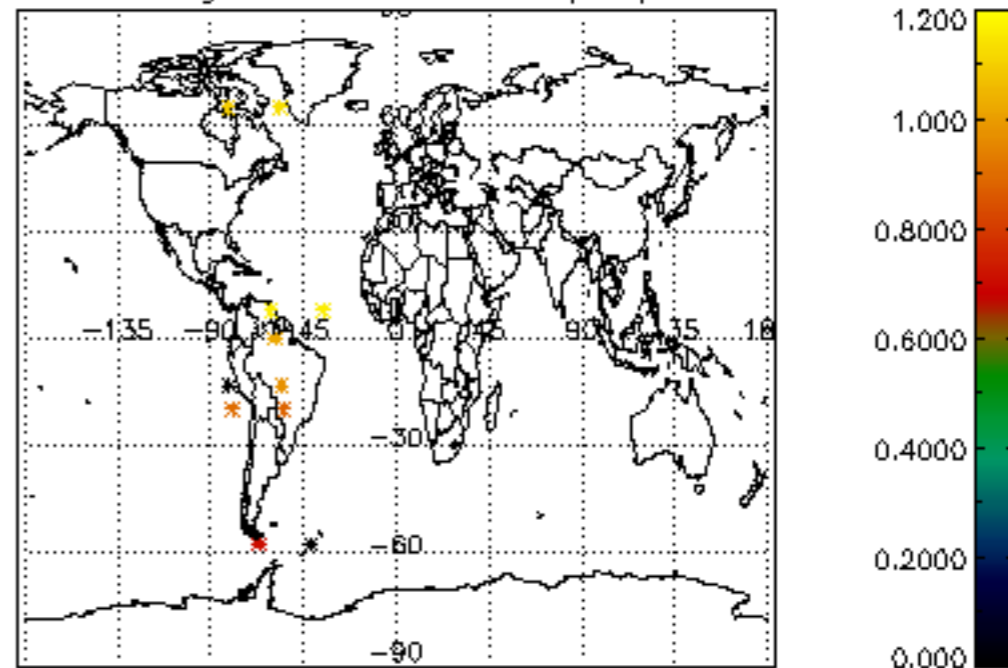




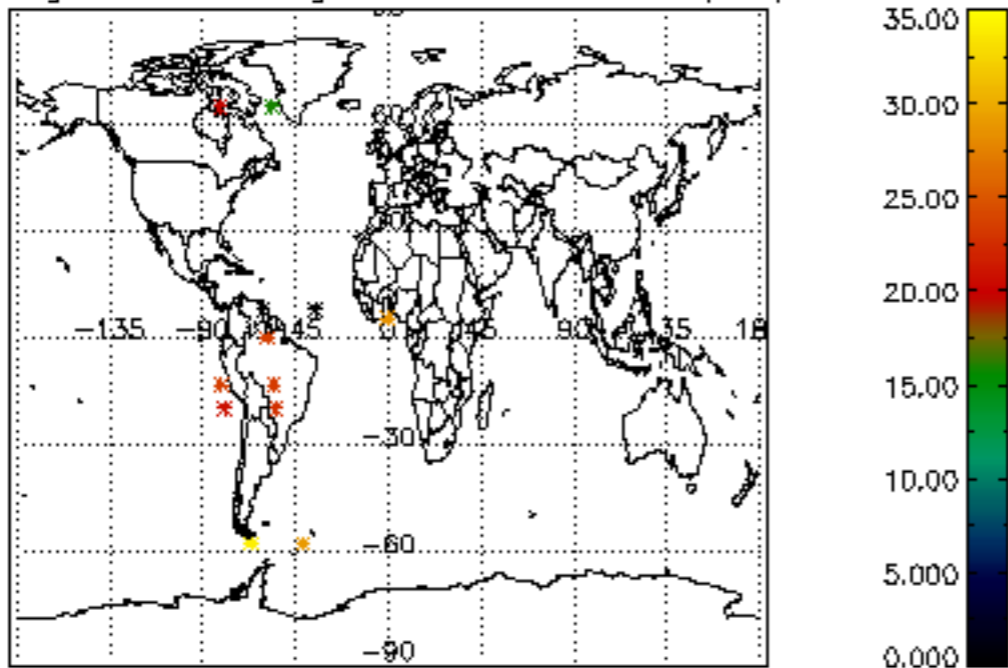
Percentage of cosmic ray hits per profile



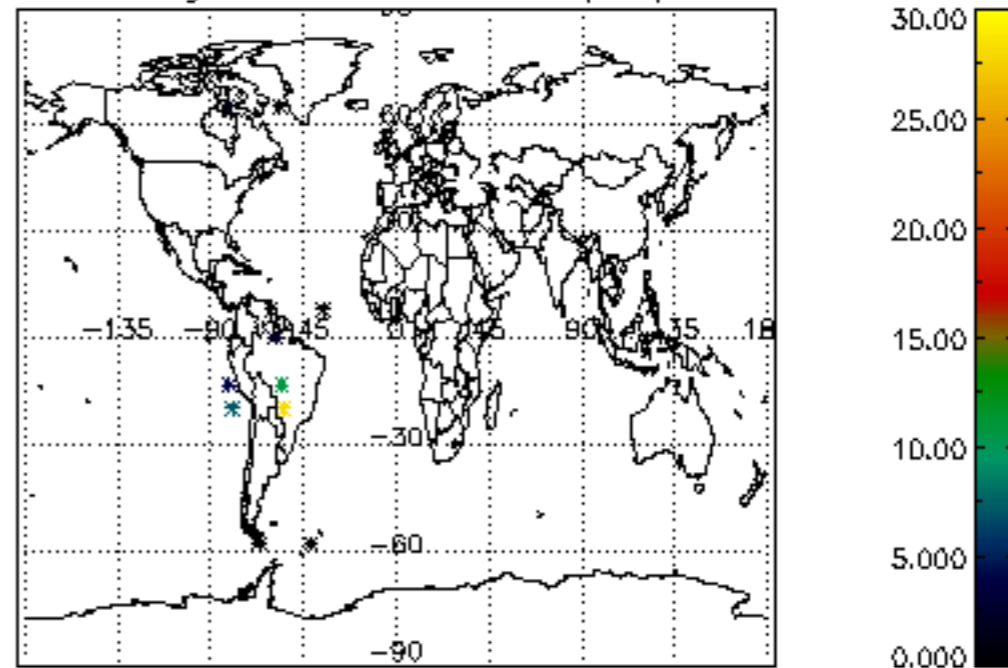
Percentage of datation errors per profile



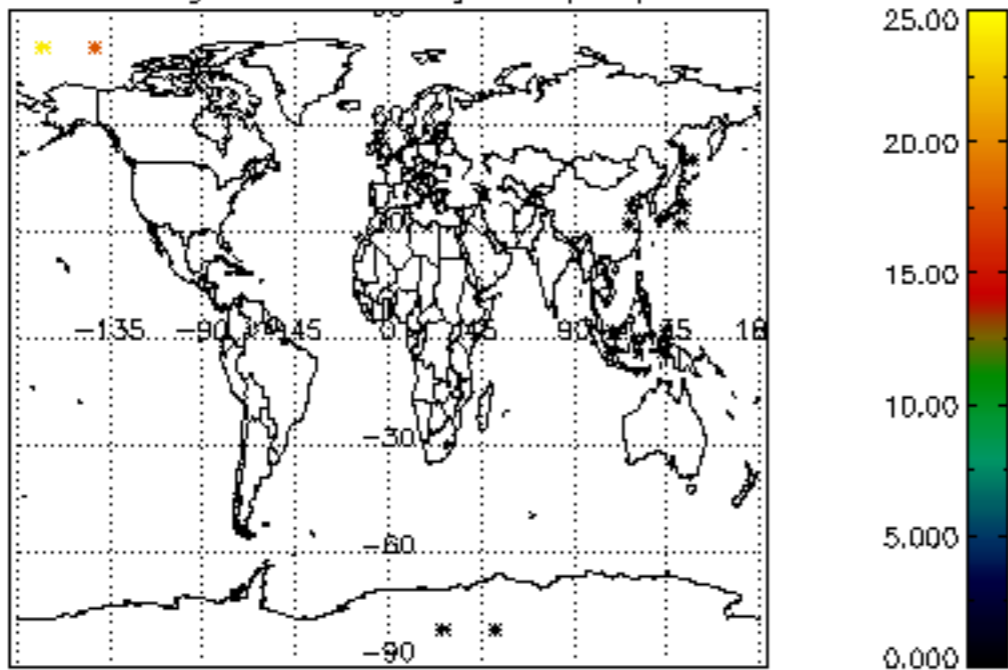
Percentage of star falling outside central band per profile



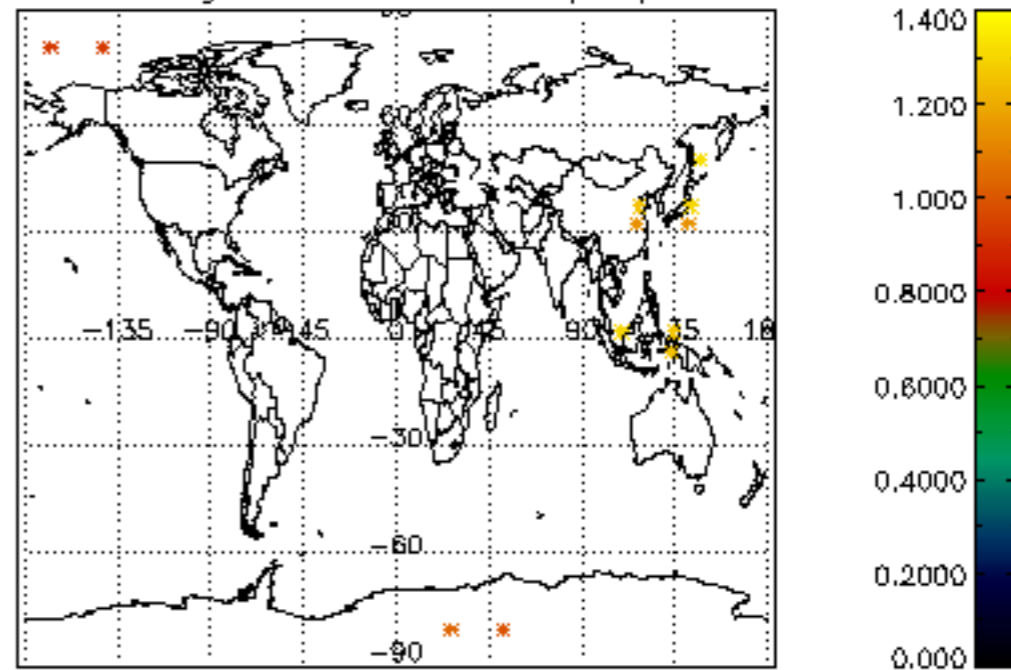
Percentage of saturation errors per profile



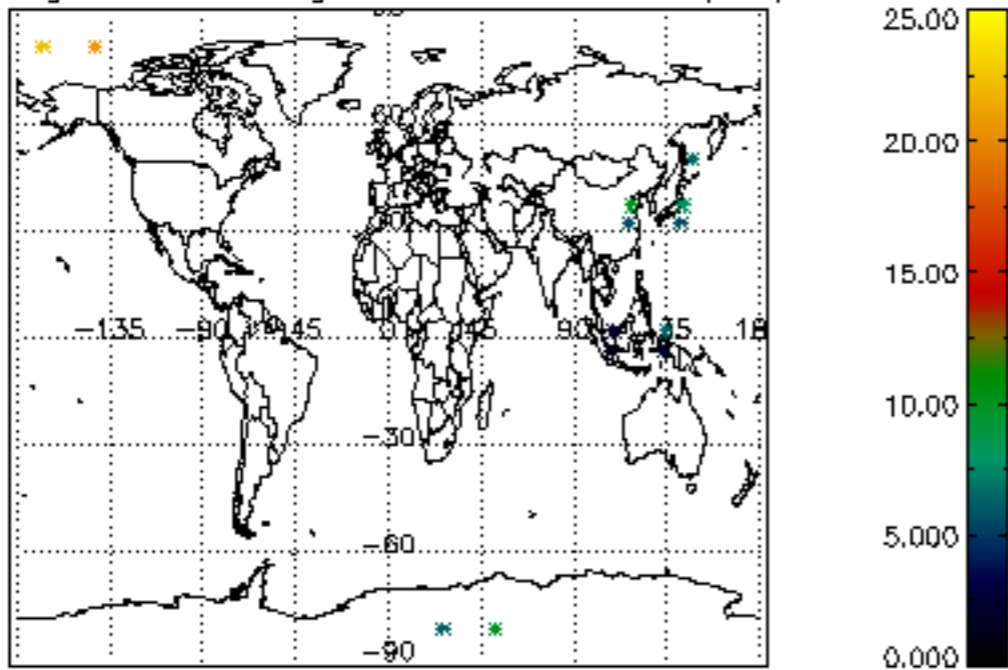
Percentage of cosmic ray hits per profile



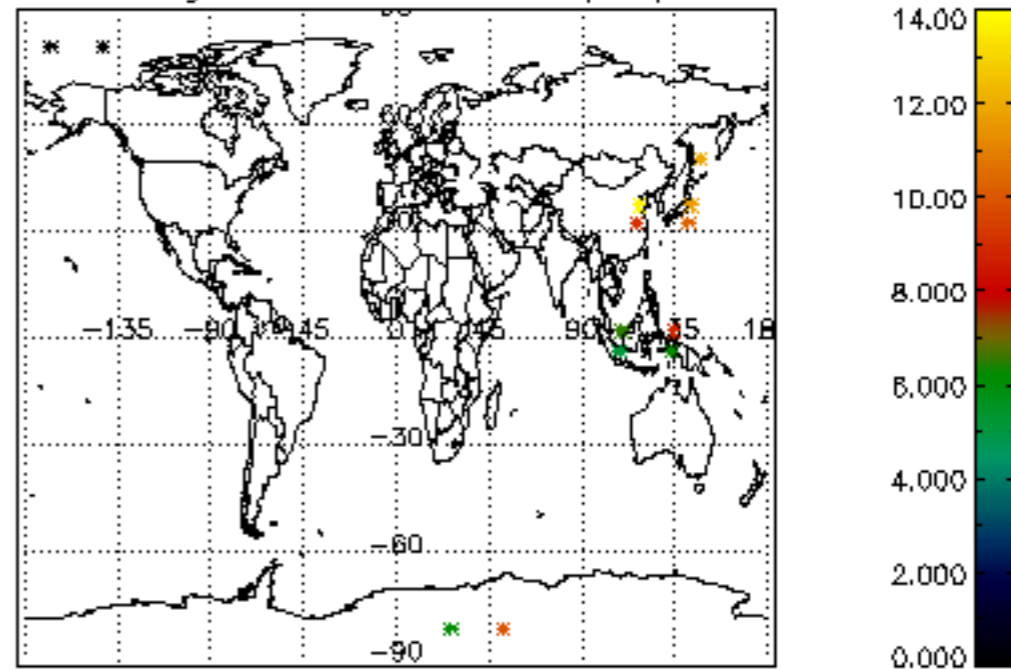
Percentage of datation errors per profile

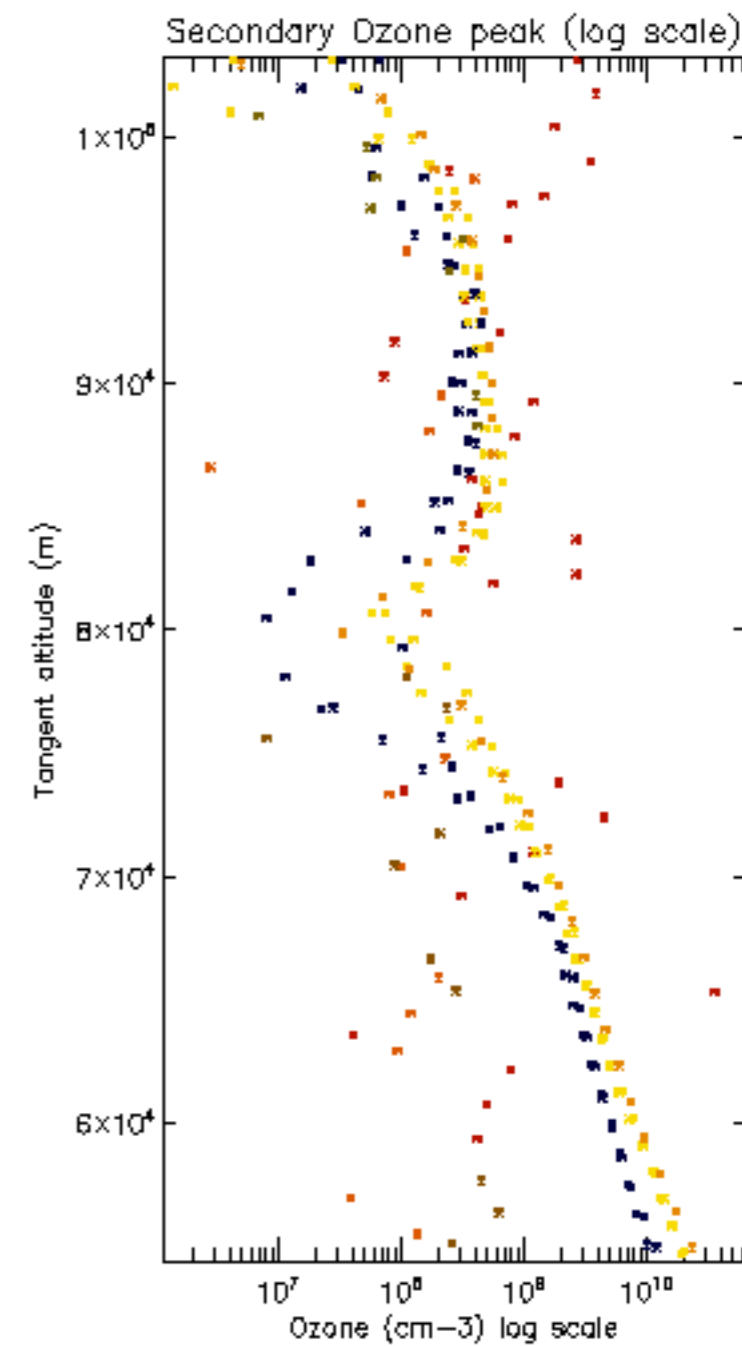
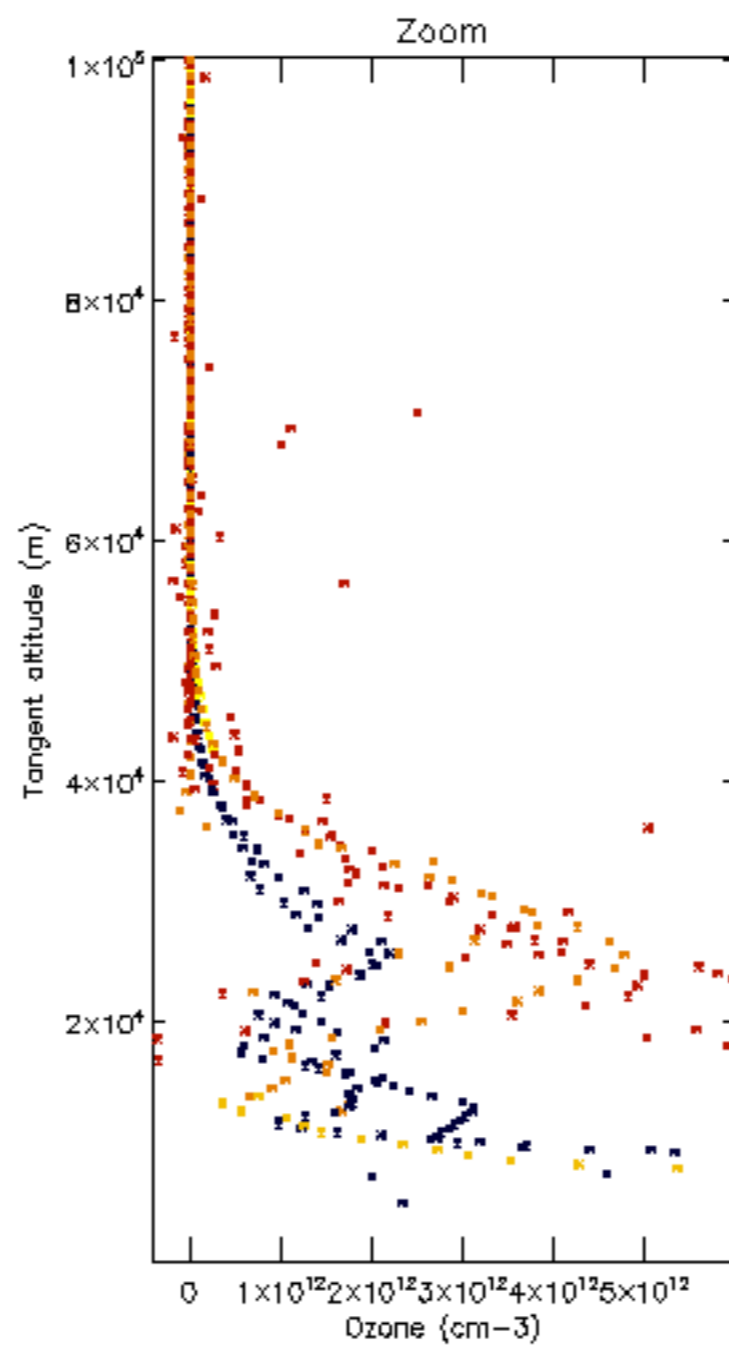
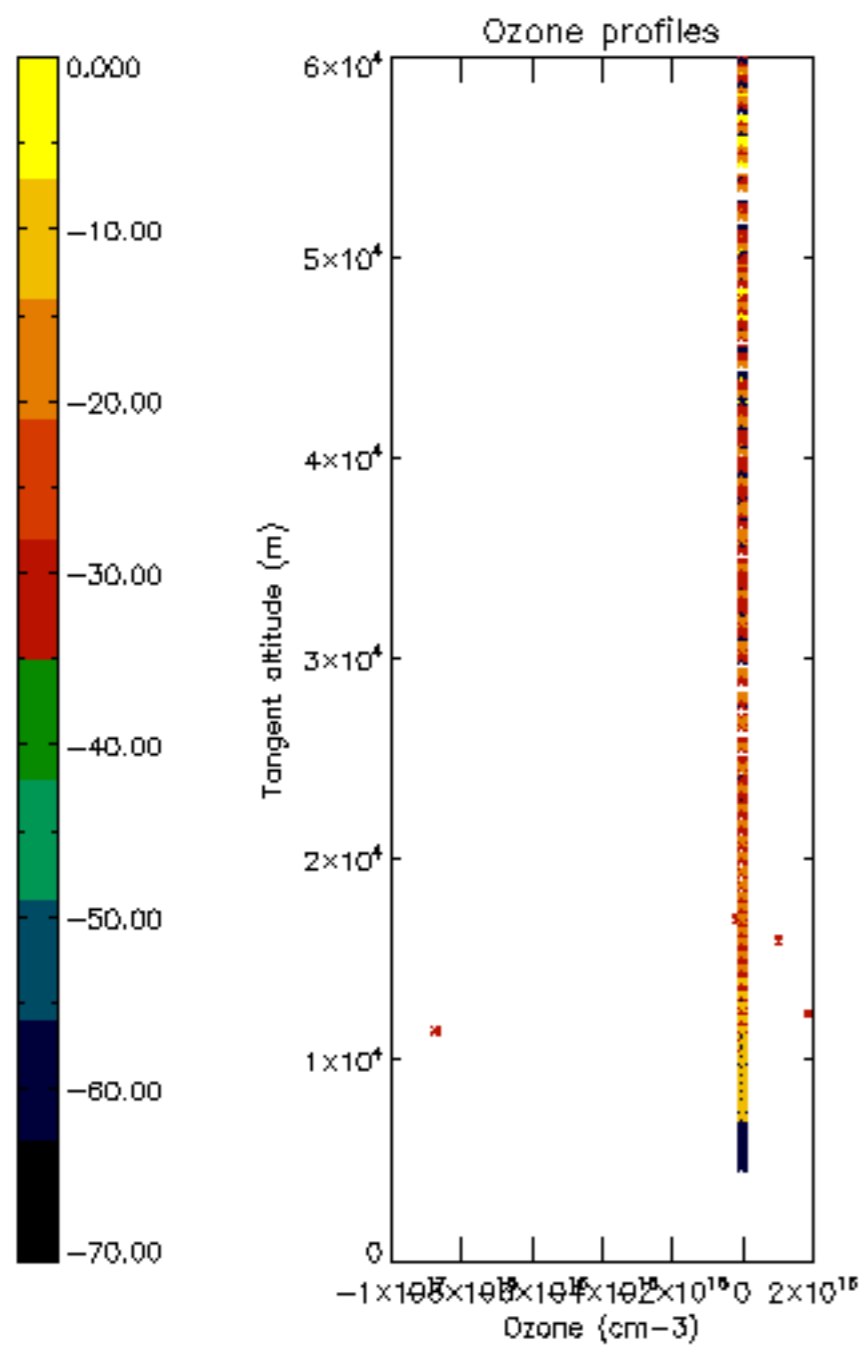


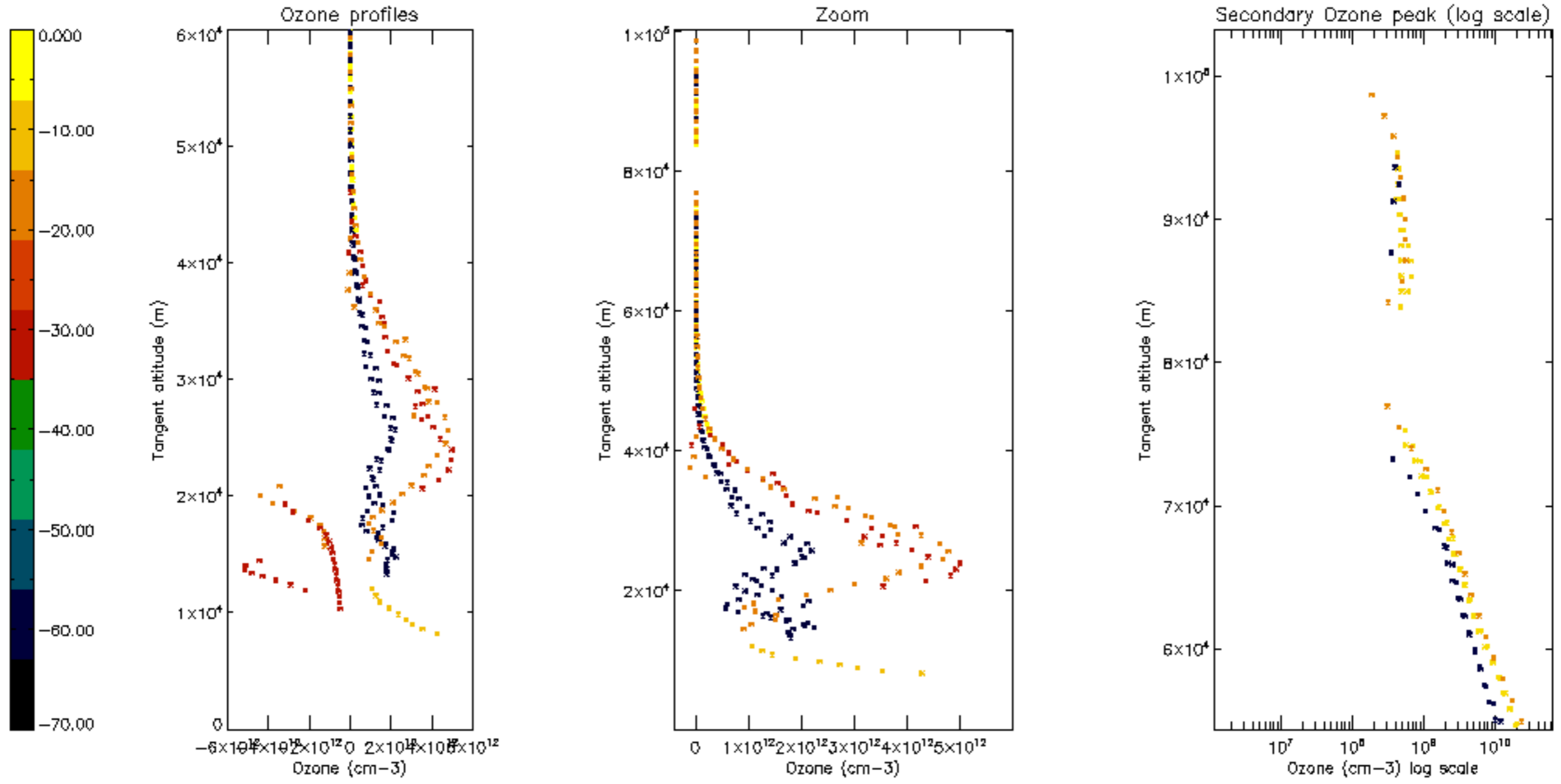
Percentage of star falling outside central band per profile

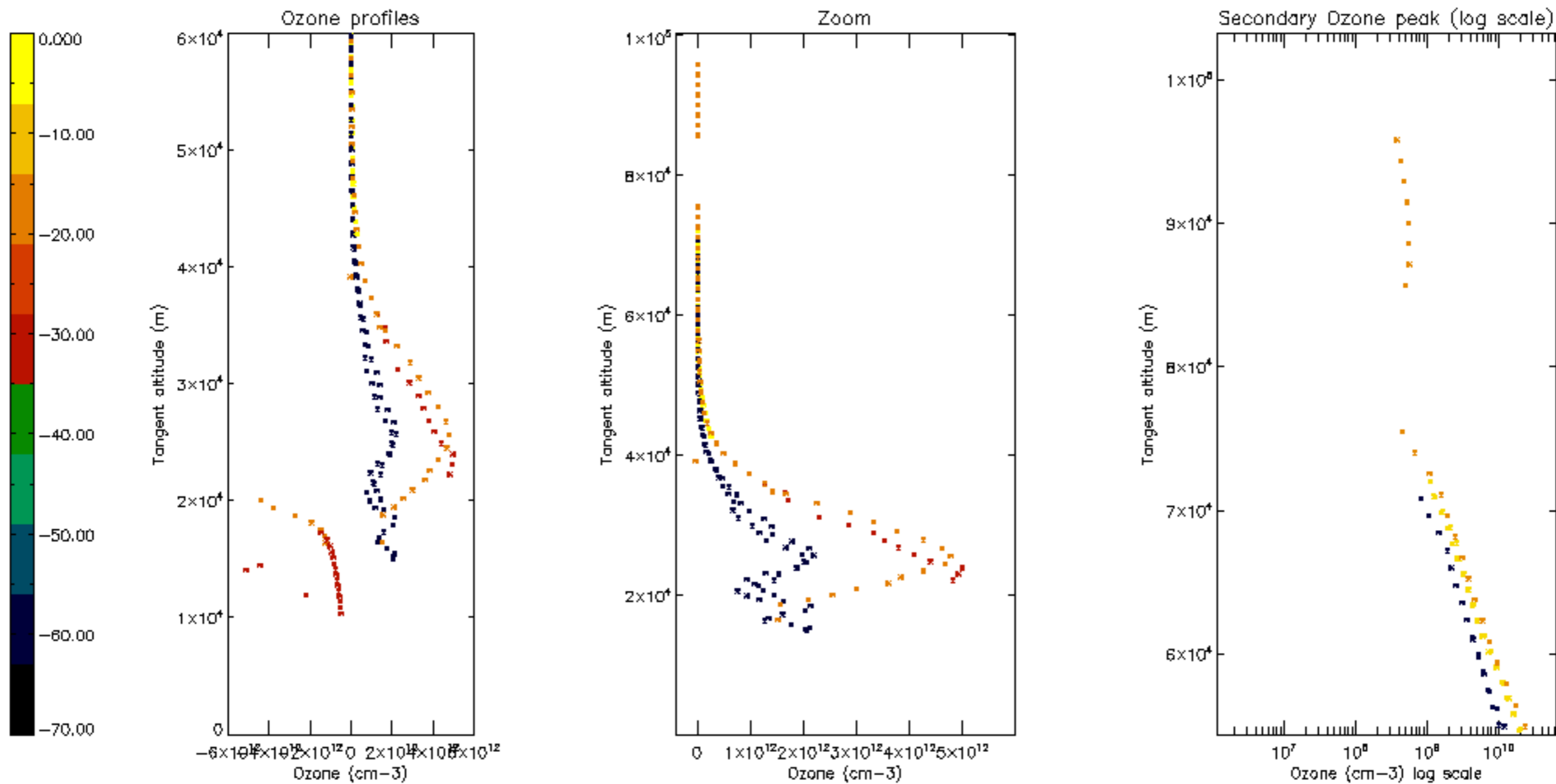


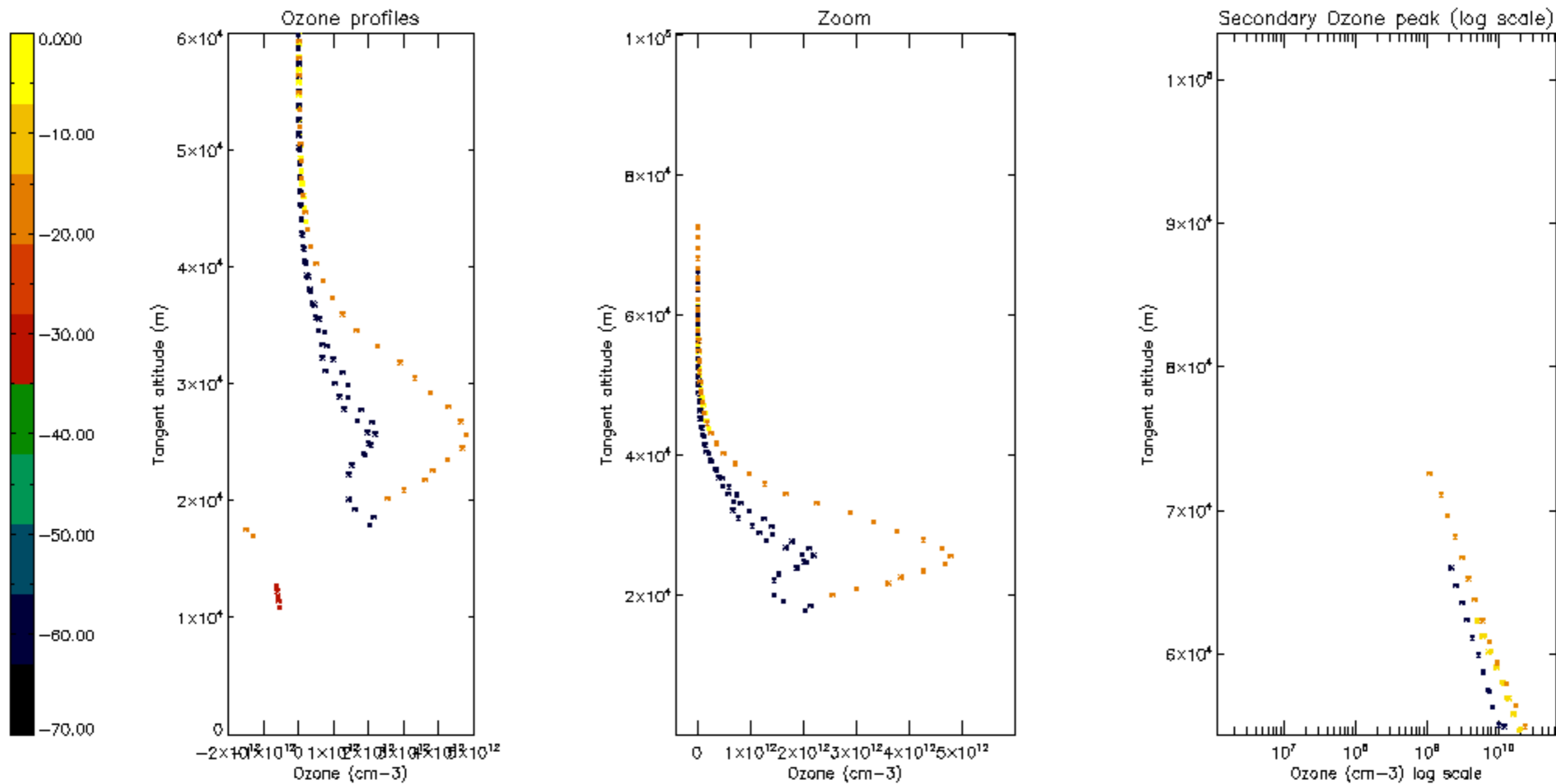
Percentage of saturation errors per profile

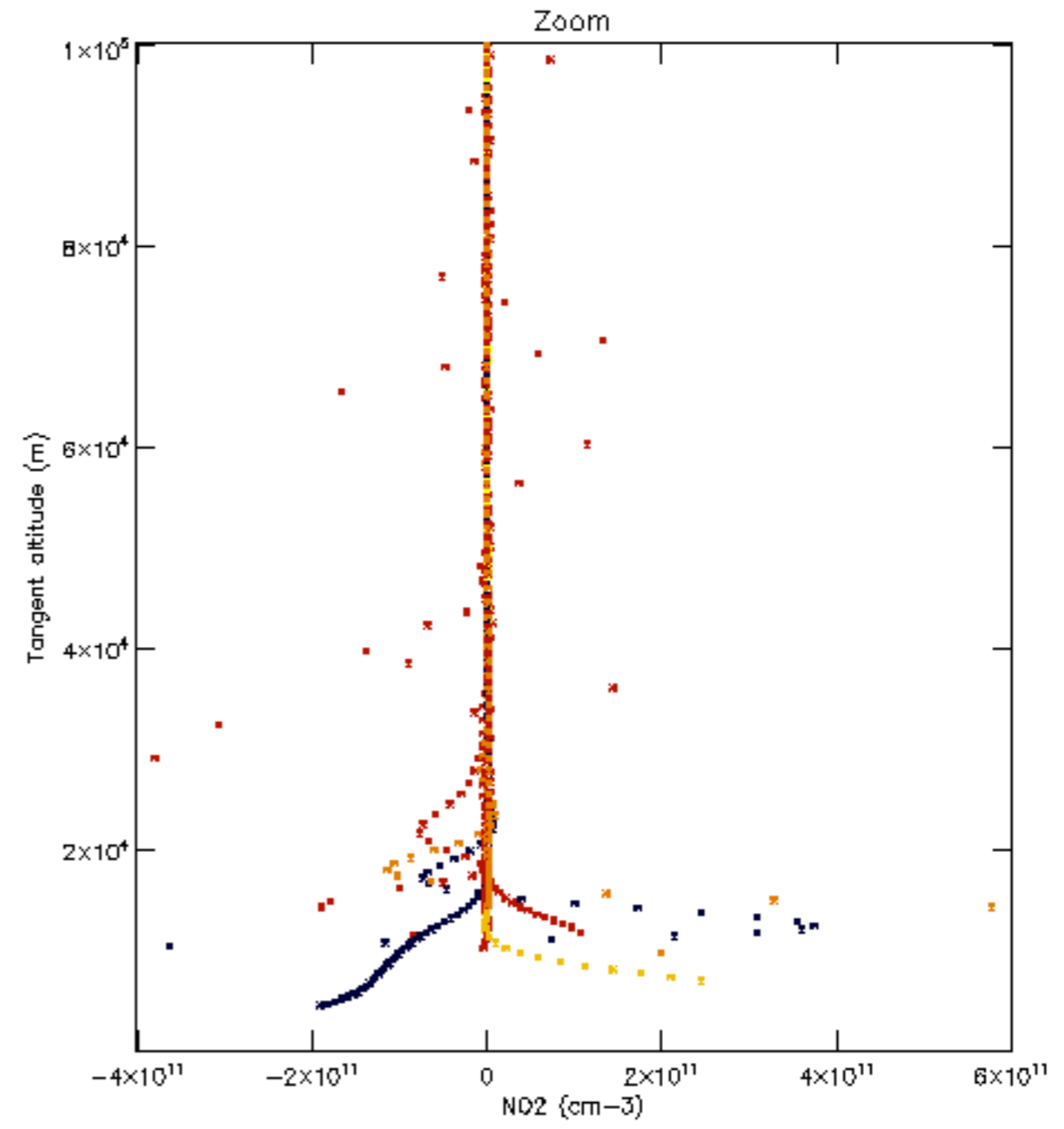
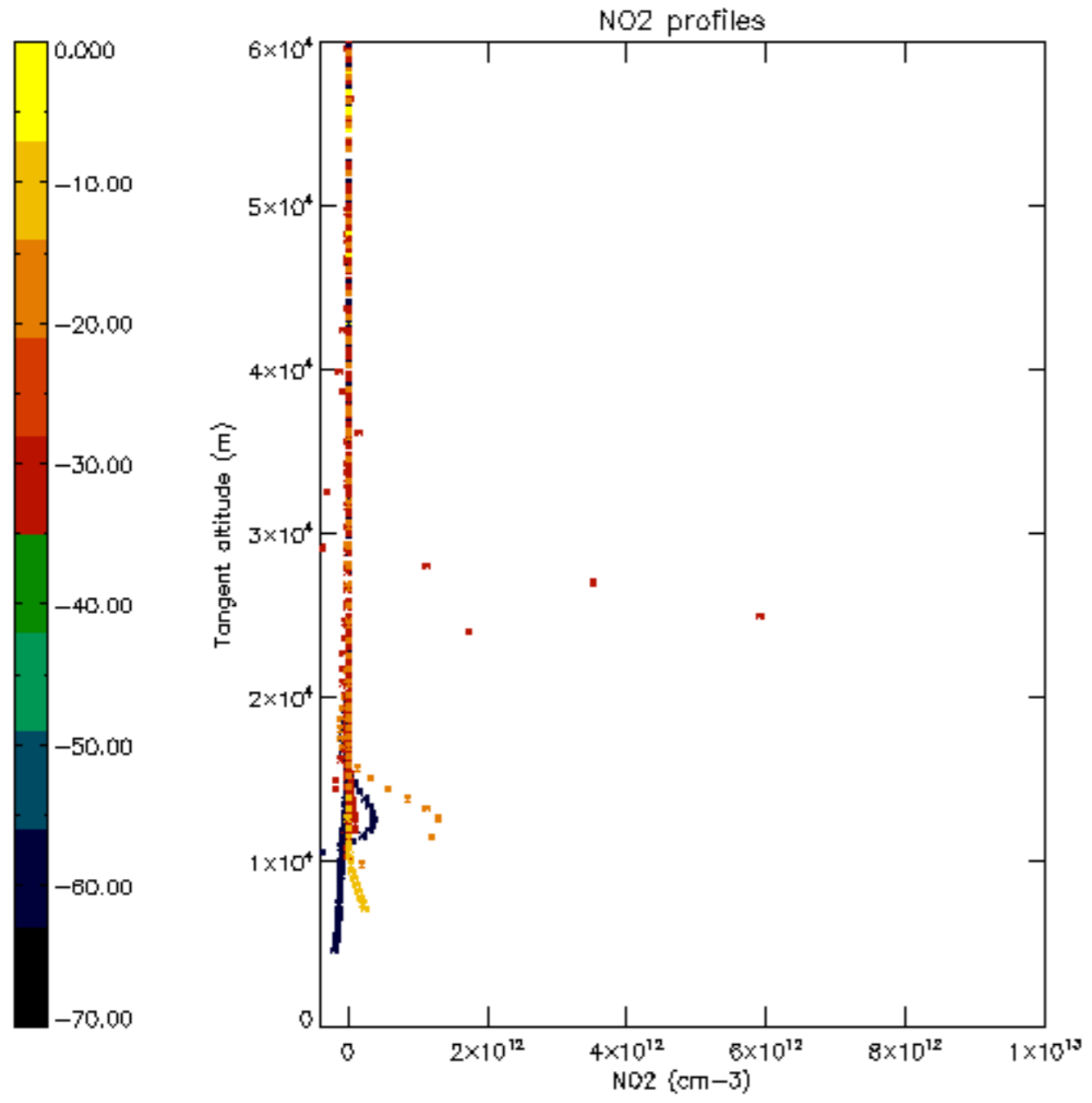


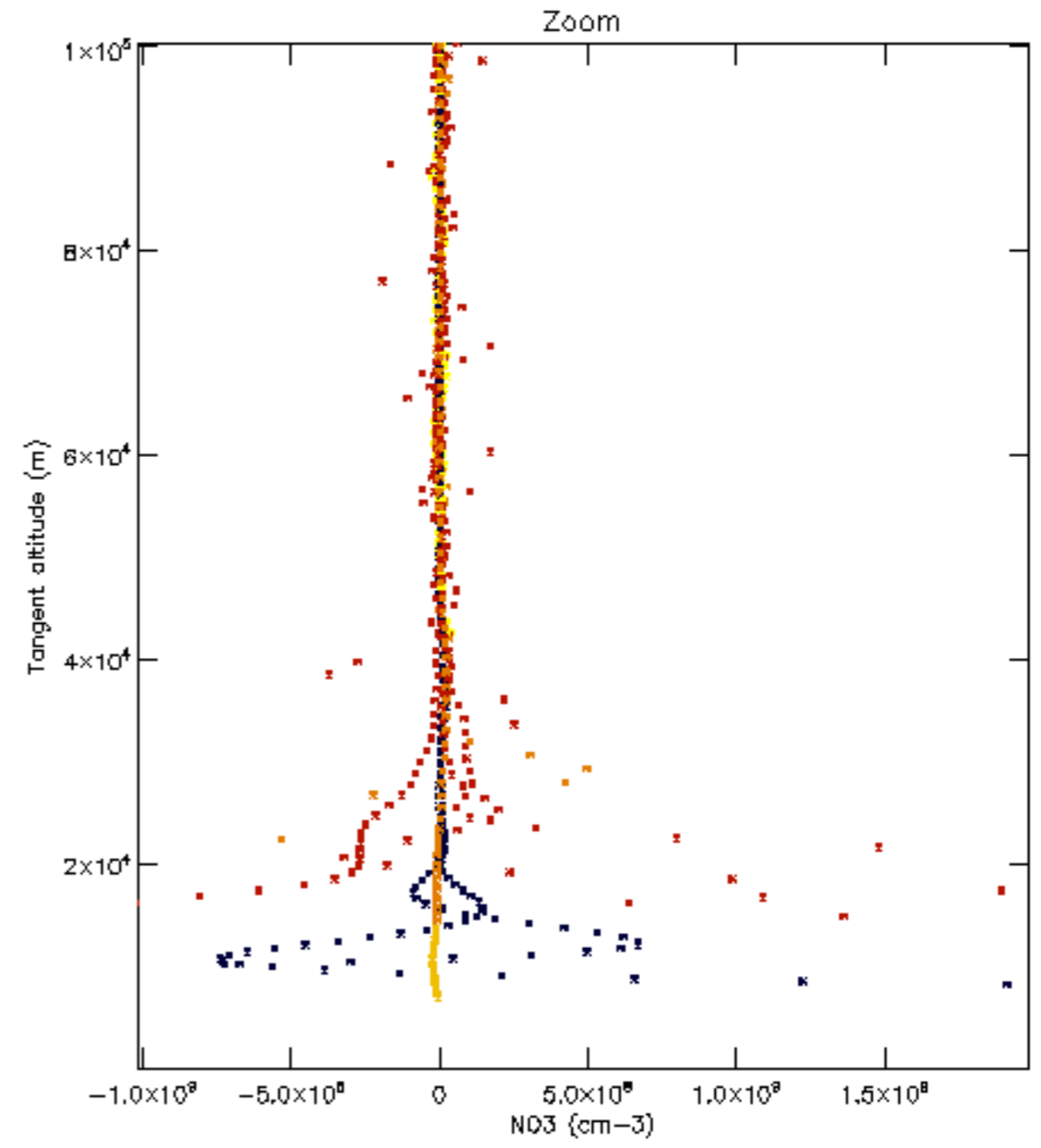
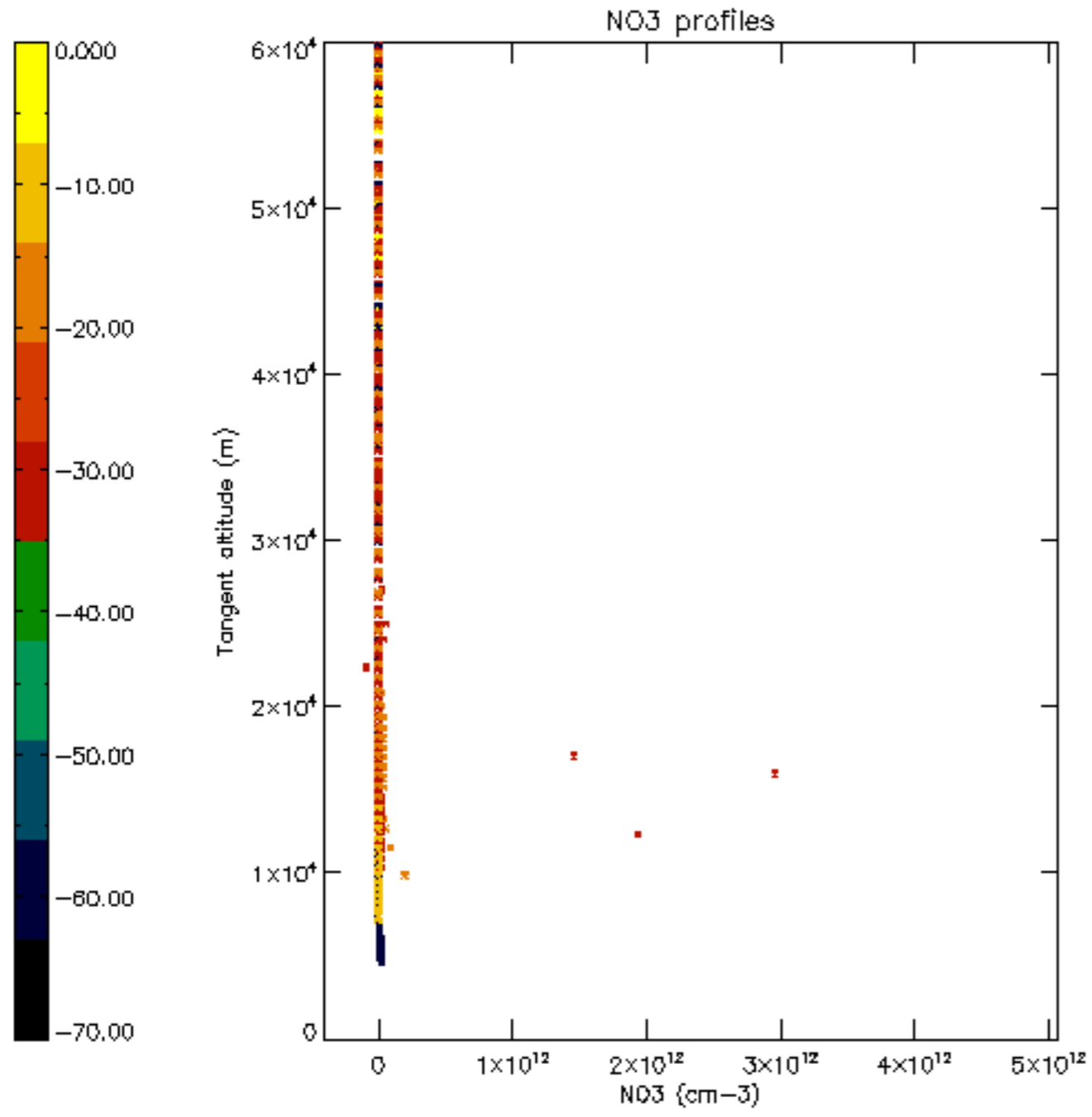


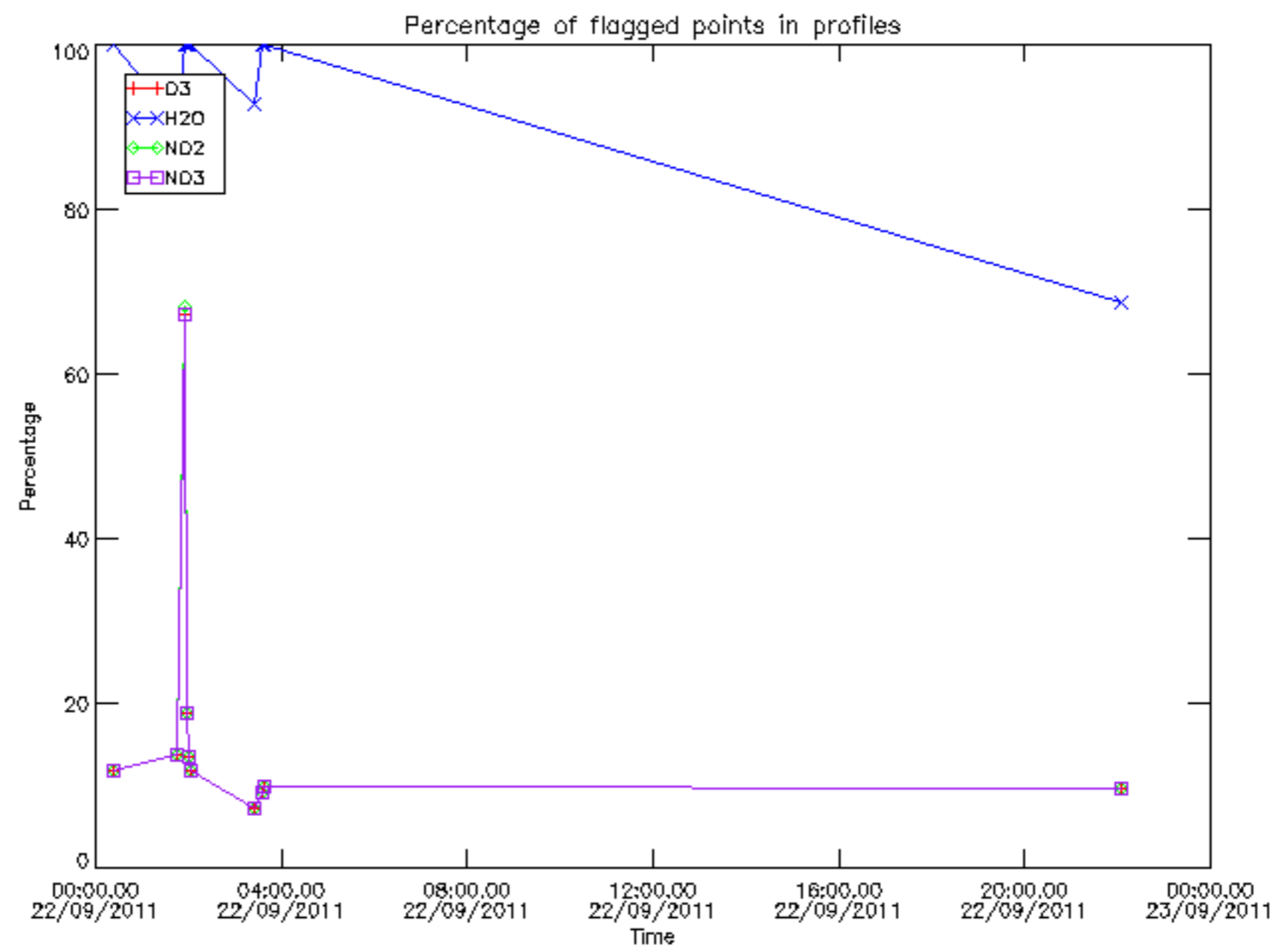




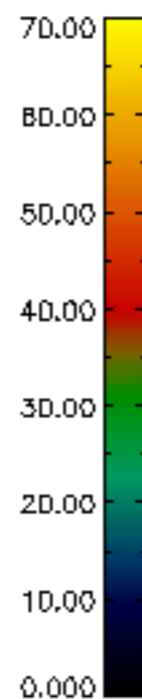
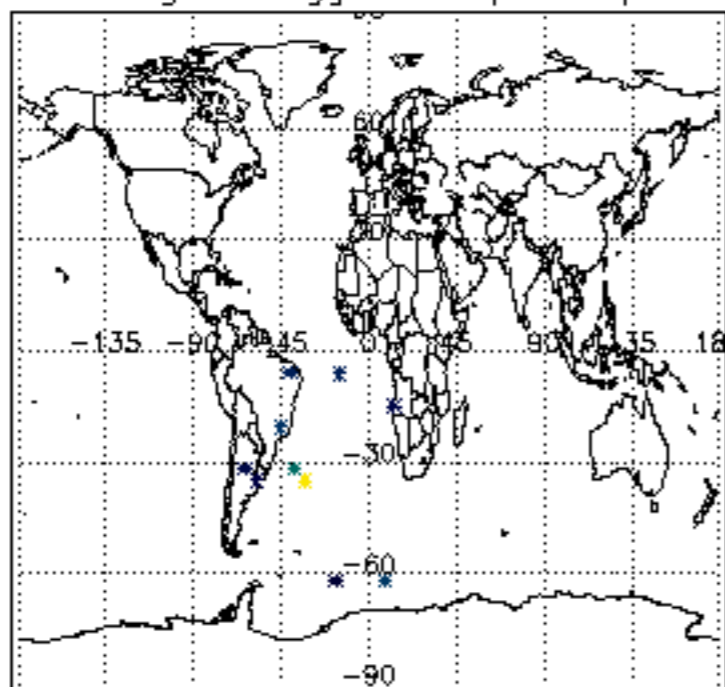




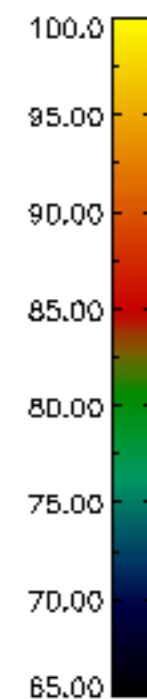
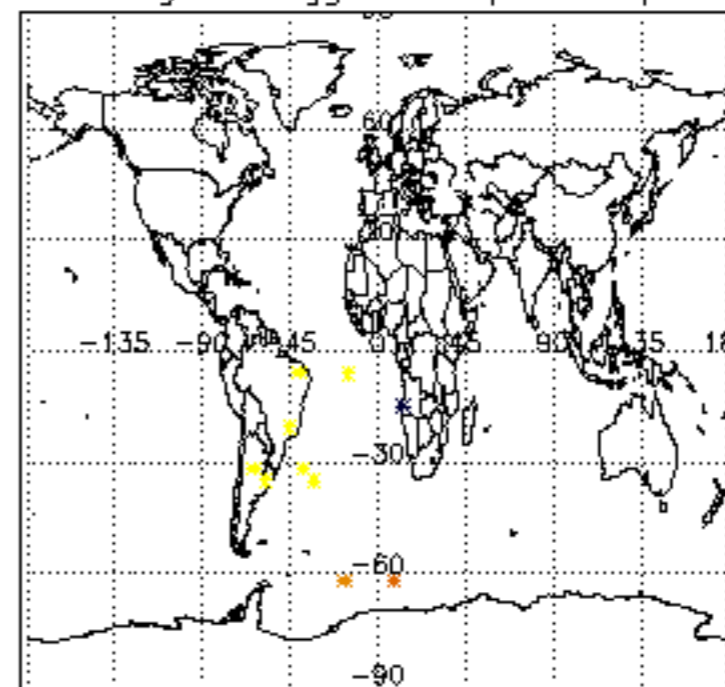




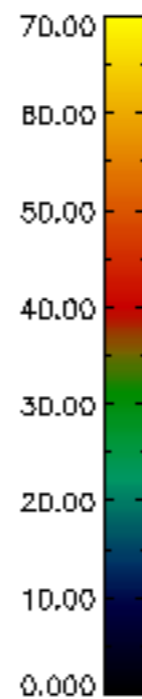
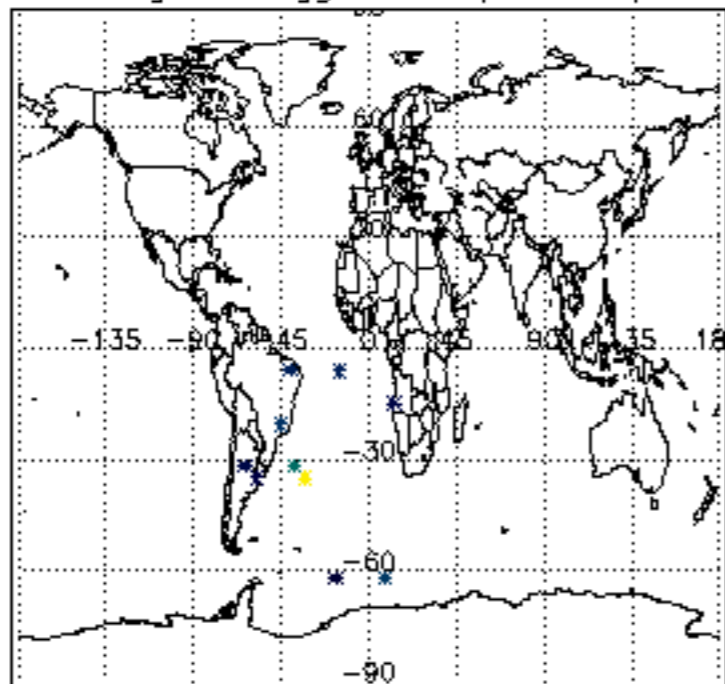
Percentage of flagged data per D3 profile



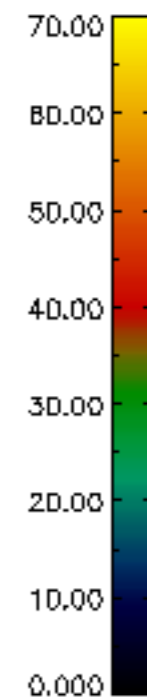
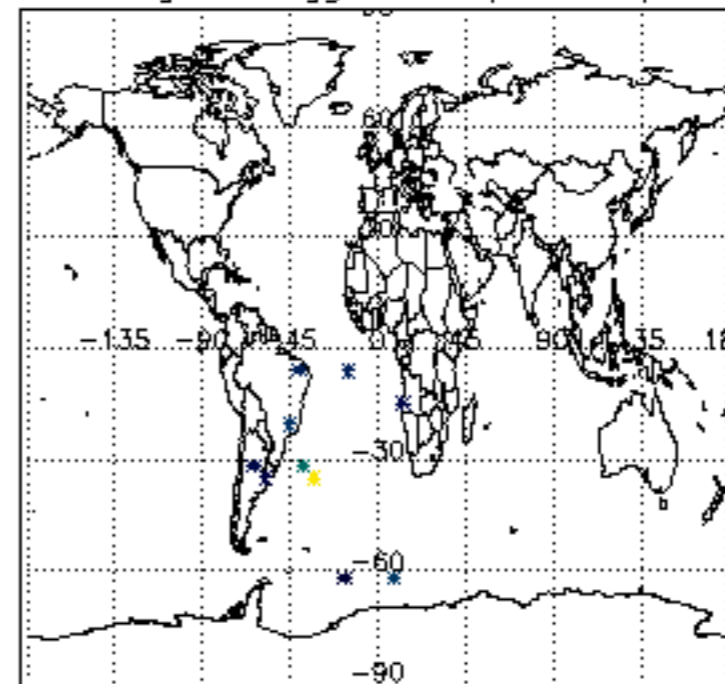
Percentage of flagged data per H2O profile

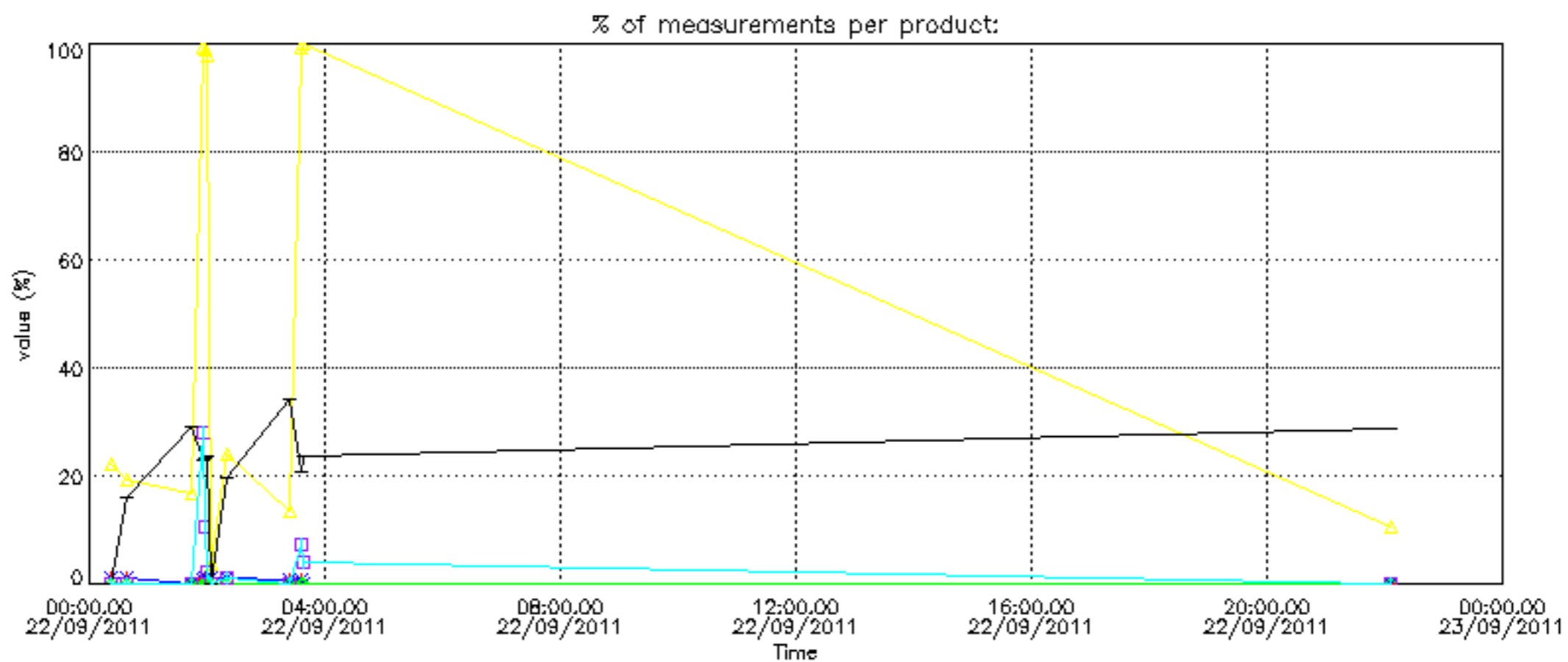


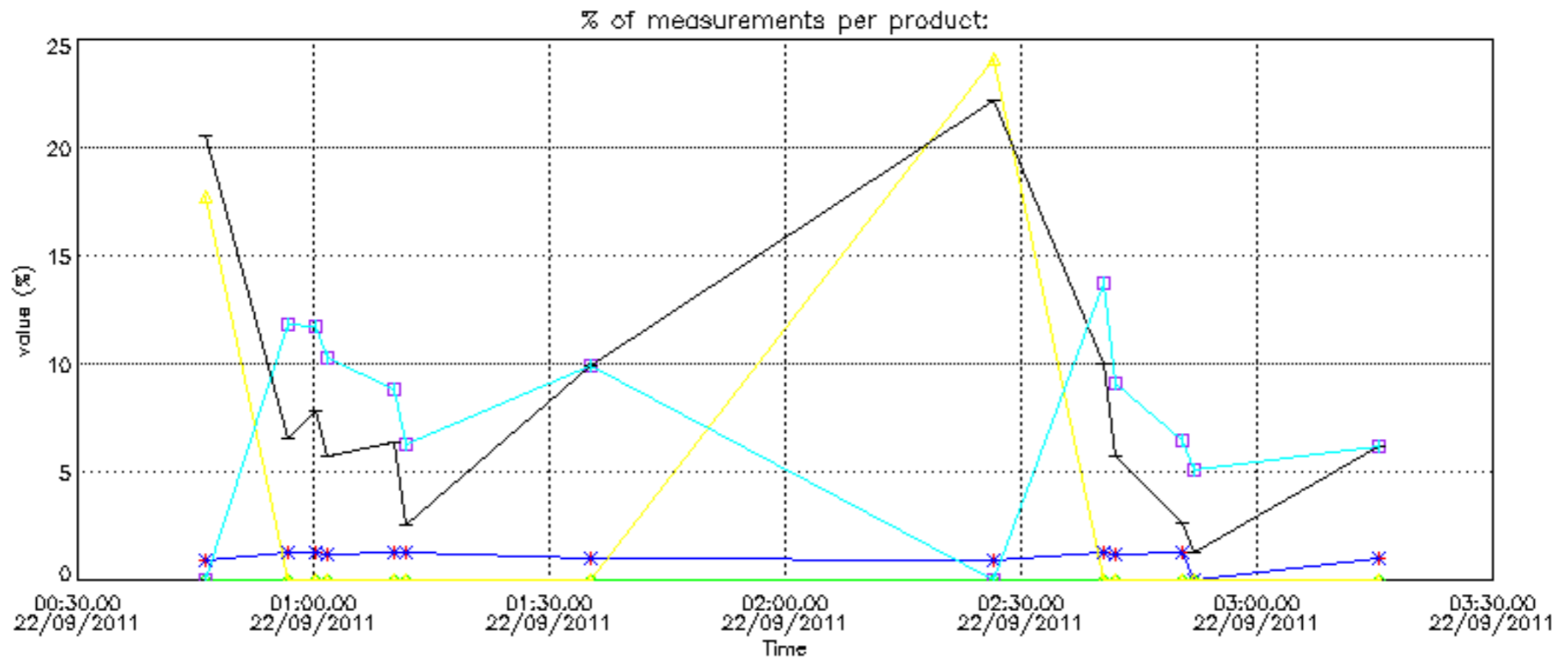
Percentage of flagged data per NO2 profile



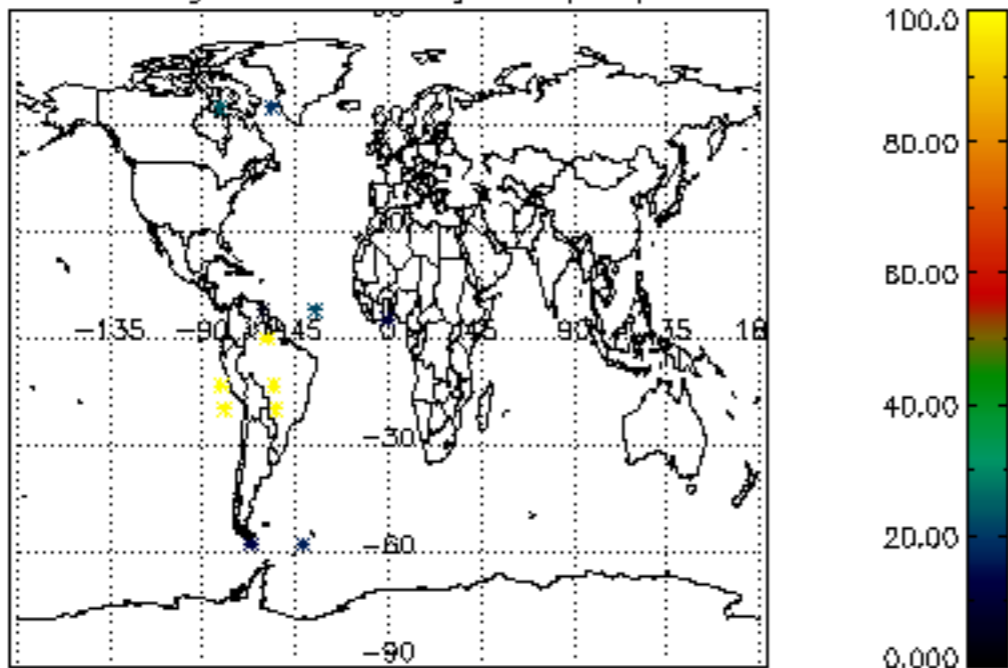
Percentage of flagged data per NO3 profile



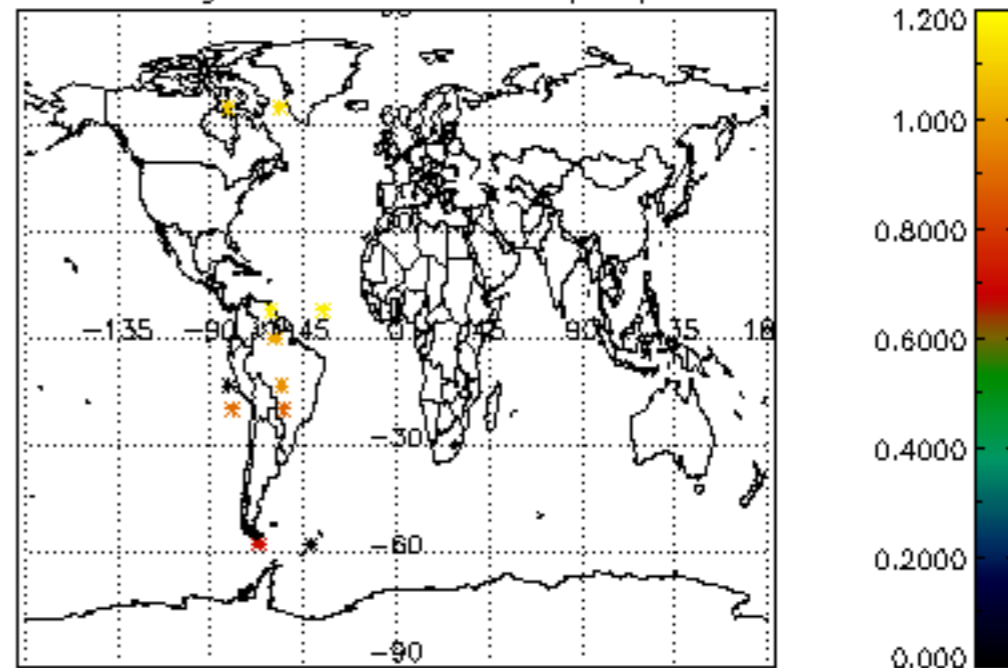




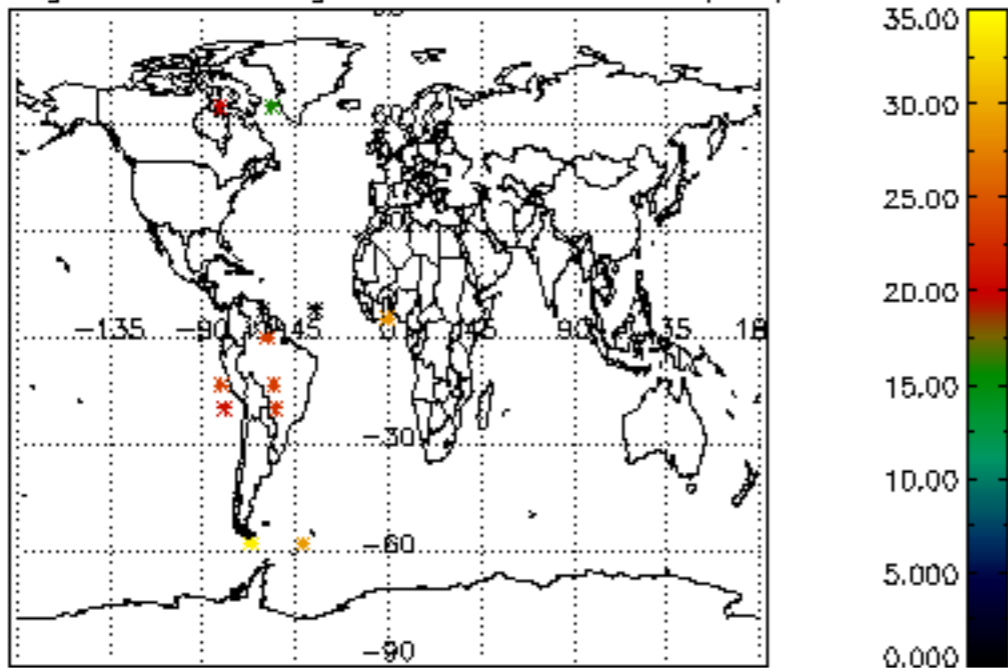
Percentage of cosmic ray hits per profile



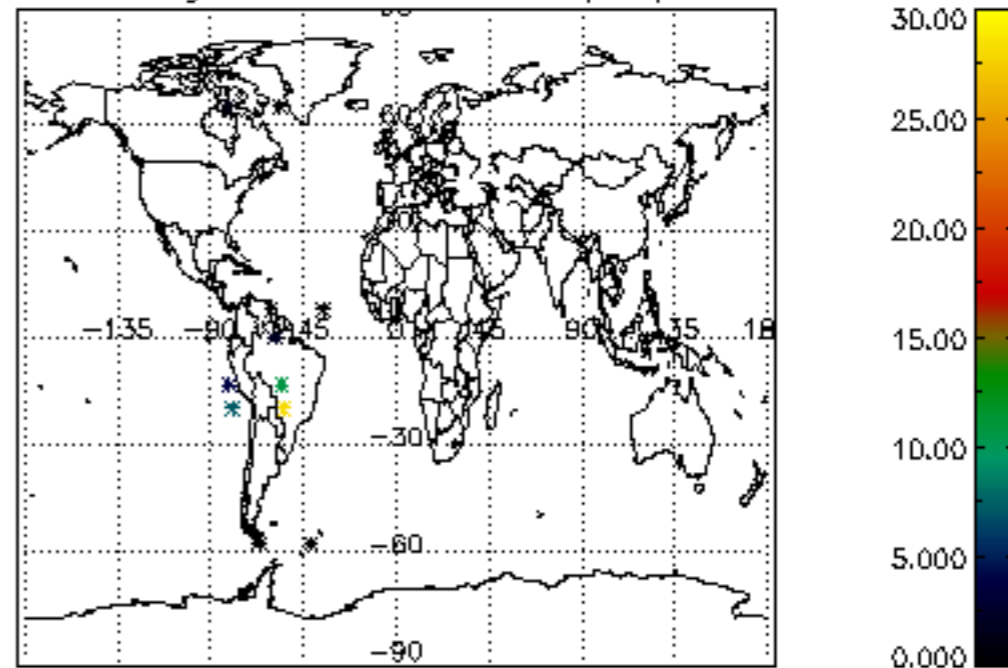
Percentage of datation errors per profile



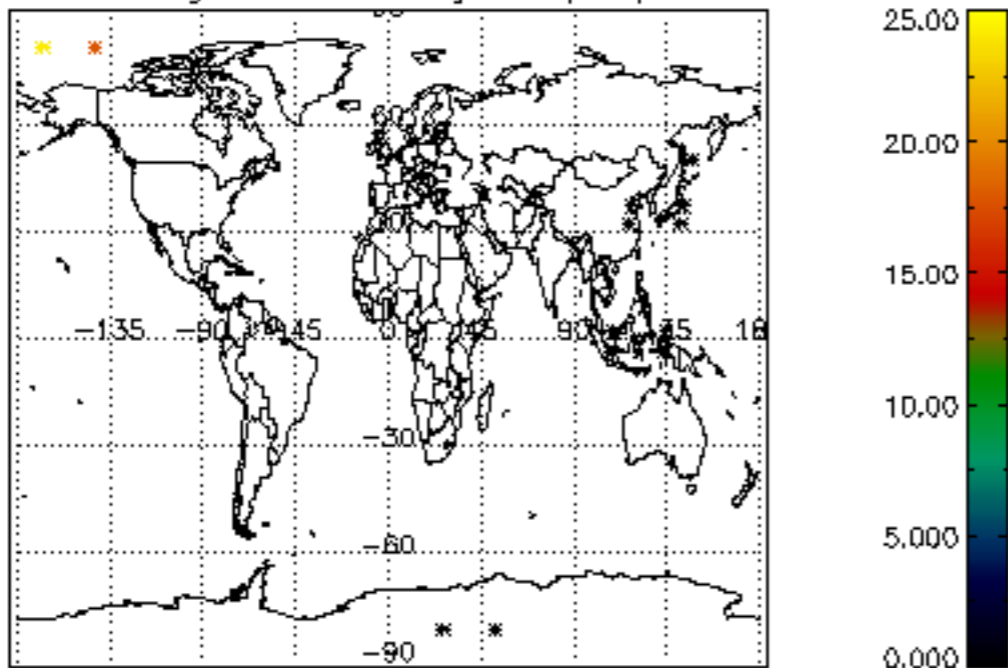
Percentage of star falling outside central band per profile



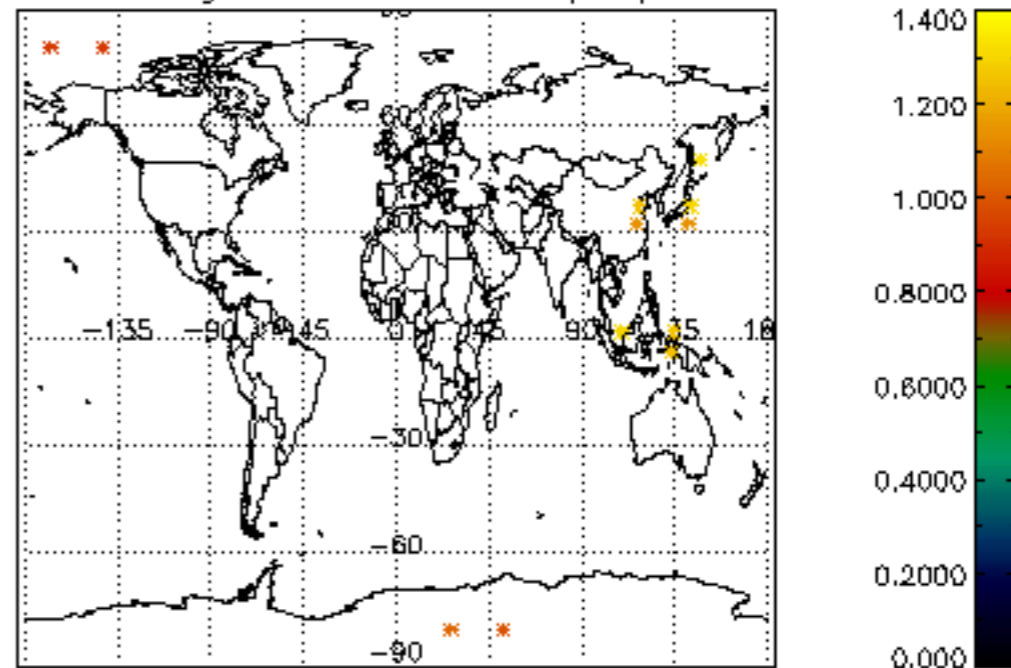
Percentage of saturation errors per profile



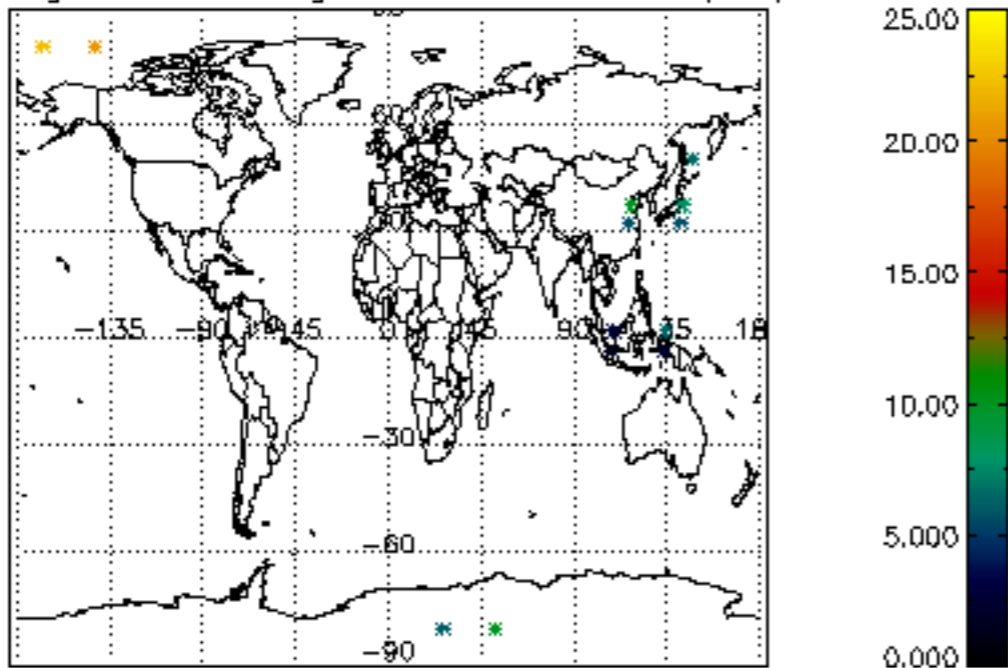
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

