

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	26APR2013 17:32:06
Data source version	GOMOS/6.01
Start time of products	20-02-2010 (20FEB2010 00:00:00)
Stop time of products	21-02-2010 (21FEB2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	29
Nb of prods with errors	0

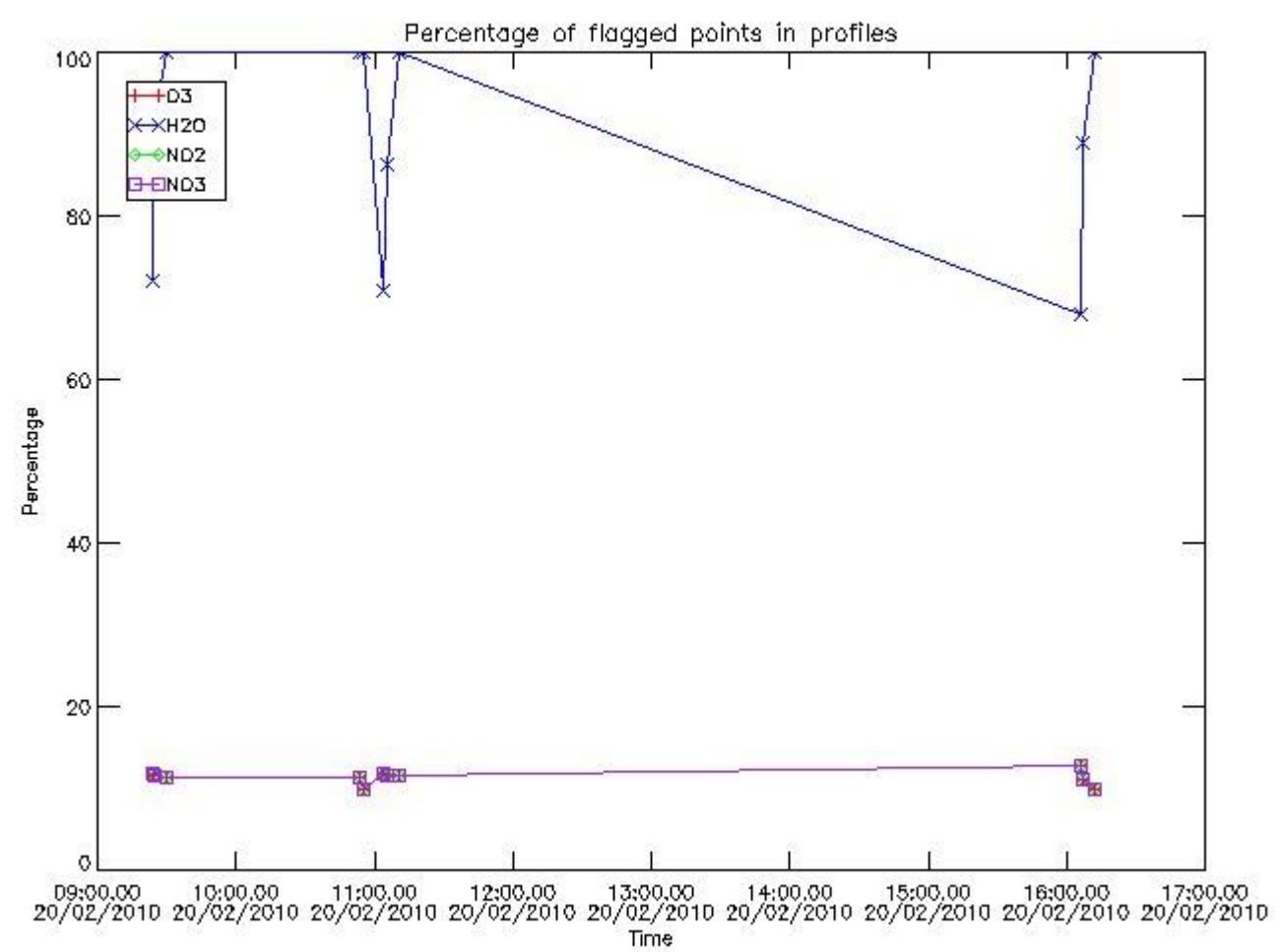
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20100220_092336_000000442087_00065_41702_5985.N1	20-FEB-2010 09:23:36	Dark	43.500	4	Alp1Cen	-0.010000	5800.0	87	41702	No
2	GOM_NL__2PRFIN20100220_092456_000000452087_00065_41702_5986.N1	20-FEB-2010 09:24:56	Dark	44.500	10	Bet Cen	0.61000	28000.	89	41702	No
3	GOM_NL__2PRFIN20100220_092949_000000452087_00065_41702_5987.N1	20-FEB-2010 09:29:49	Dark	44.500	64	Gam Cen	2.2000	10600.	89	41702	No
4	GOM_NL__2PRFIN20100220_094643_000000462087_00065_41702_5988.N1	20-FEB-2010 09:46:43	Twilight	45.500	48	30Alp Hya	1.9770	4100.0	91	41702	No
5	GOM_NL__2PRFIN20100220_095656_000000442087_00065_41702_5989.N1	20-FEB-2010 09:56:56	Bright	43.500	166	17Eps Leo	2.9800	6000.0	87	41702	No
6	GOM_NL__2PRFIN20100220_101634_000000432087_00065_41702_5990.N1	20-FEB-2010 10:16:34	Bright	43.000	60	7Bet UMi	2.0810	3950.0	86	41702	No
7	GOM_NL__2PRFIN20100220_102552_000000382087_00065_41702_5991.N1	20-FEB-2010 10:25:52	Bright	38.000	69	33Gam Dra	2.2310	3800.0	76	41702	No
8	GOM_NL__2PRFIN20100220_102954_000000392087_00065_41702_5992.N1	20-FEB-2010 10:29:54	Bright	38.500	5	3Alp Lyr	0.033000	11000.	77	41702	No
9	GOM_NL__2PRFIN20100220_103701_000000352087_00065_41702_5993.N1	20-FEB-2010 10:37:01	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	41702	No
10	GOM_NL__2PRFIN20100220_105336_000000452087_00065_41702_5994.N1	20-FEB-2010 10:53:36	Dark	45.000	25	35Lam Sco	1.6200	28000.	90	41702	No
11	GOM_NL__2PRFIN20100220_105507_000000522087_00065_41702_5995.N1	20-FEB-2010 10:55:07	Dark	51.500	75	26Eps Sco	2.2910	4250.0	103	41702	No
12	GOM_NL__2PRFIN20100220_110413_000000442087_00066_41703_5993.N1	20-FEB-2010 11:04:13	Dark	43.500	4	Alp1Cen	-0.010000	5800.0	87	41703	No
13	GOM_NL__2PRFIN20100220_110533_000000442087_00066_41703_5994.N1	20-FEB-2010 11:05:33	Dark	44.000	10	Bet Cen	0.61000	28000.	88	41703	No
14	GOM_NL__2PRFIN20100220_111026_000000442087_00066_41703_5995.N1	20-FEB-2010 11:10:26	Dark	44.000	64	Gam Cen	2.2000	10600.	88	41703	No
15	GOM_NL__2PRFIN20100220_112719_000000482087_00066_41703_5996.N1	20-FEB-2010 11:27:19	Twilight	47.500	48	30Alp Hya	1.9770	4100.0	95	41703	No
16	GOM_NL__2PRFIN20100220_113731_000000432087_00066_41703_5997.N1	20-FEB-2010 11:37:31	Bright	43.000	166	17Eps Leo	2.9800	6000.0	86	41703	No
17	GOM_NL__2PRFIN20100220_115710_000000412087_00066_41703_5998.N1	20-FEB-2010 11:57:10	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	41703	No
18	GOM_NL__2PRFIN20100220_120628_000000432087_00066_41703_5999.N1	20-FEB-2010 12:06:28	Bright	42.500	69	33Gam Dra	2.2310	3800.0	85	41703	No
19	GOM_NL__2PRFIN20100220_121030_000000412087_00066_41703_6000.N1	20-FEB-2010 12:10:30	Bright	40.500	5	3Alp Lyr	0.033000	11000.	81	41703	No
20	GOM_NL__2PRFIN20100220_121737_000000352087_00066_41703_6001.N1	20-FEB-2010 12:17:37	Bright	34.500	168	17Zet Aql	2.9860	11000.	69	41703	No
21	GOM_NL__2PRFIN20100220_160602_000000442087_00069_41706_6019.N1	20-FEB-2010 16:06:02	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	41706	No
22	GOM_NL__2PRFIN20100220_160722_000000462087_00069_41706_6020.N1	20-FEB-2010 16:07:22	Dark	45.500	10	Bet Cen	0.61000	28000.	91	41706	No
23	GOM_NL__2PRFIN20100220_161216_000000522087_00069_41706_6021.N1	20-FEB-2010 16:12:16	Dark	51.500	64	Gam Cen	2.2000	10600.	103	41706	No
24	GOM_NL__2PRFIN20100220_162907_000000472087_00069_41706_6022.N1	20-FEB-2010 16:29:07	Twilight	47.000	48	30Alp Hya	1.9770	4100.0	94	41706	No
25	GOM_NL__2PRFIN20100220_163918_000000432087_00069_41706_6023.N1	20-FEB-2010 16:39:18	Bright	43.000	166	17Eps Leo	2.9800	6000.0	86	41706	No
26	GOM_NL__2PRFIN20100220_165856_000000422087_00069_41706_6024.N1	20-FEB-2010 16:58:56	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	41706	No
27	GOM_NL__2PRFIN20100220_170815_000000442087_00069_41706_6025.N1	20-FEB-2010 17:08:15	Bright	43.500	69	33Gam Dra	2.2310	3800.0	87	41706	No
28	GOM_NL__2PRFIN20100220_171218_000000382087_00069_41706_6026.N1	20-FEB-2010 17:12:18	Bright	38.000	5	3Alp Lyr	0.033000	11000.	76	41706	No
29	GOM_NL__2PRFIN20100220_171926_000000542087_00069_41706_6027.N1	20-FEB-2010 17:19:26	Bright	53.500	168	17Zet Aql	2.9860	11000.	107	41706	No

3. Quality information per product

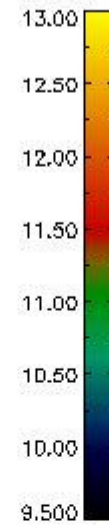
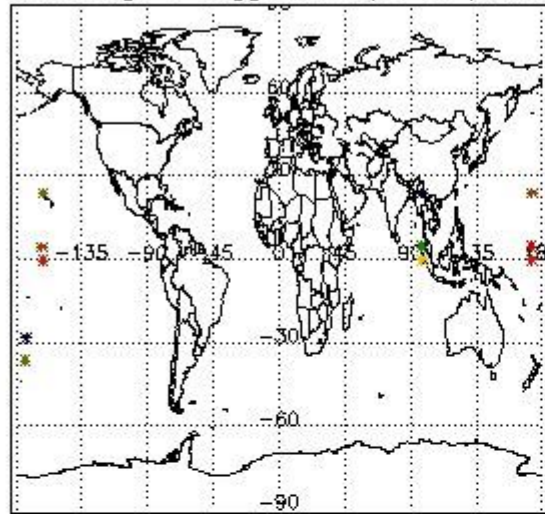
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

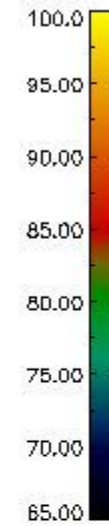
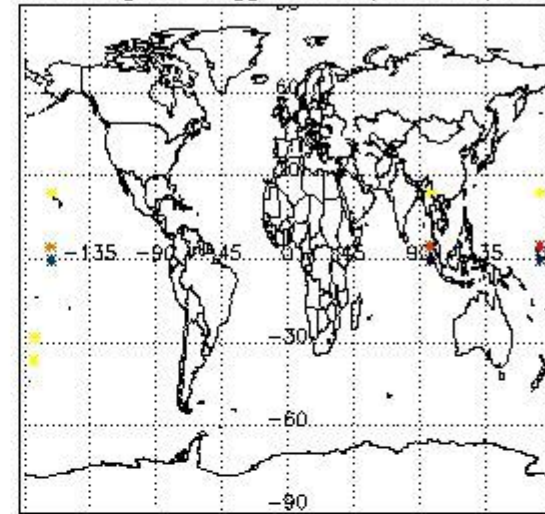


3.2 Plot quality information per product (world map)

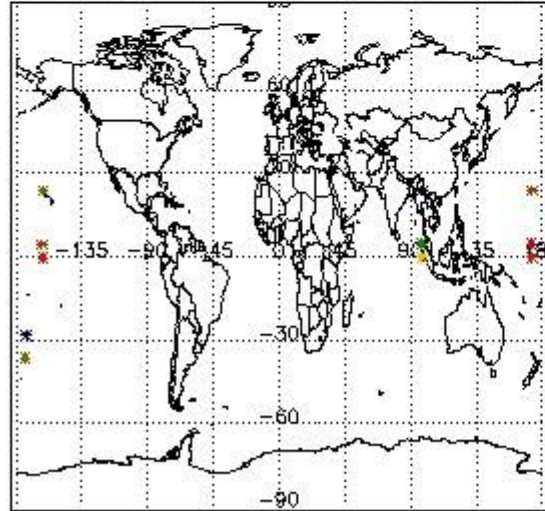
Percentage of flagged data per O3 profile



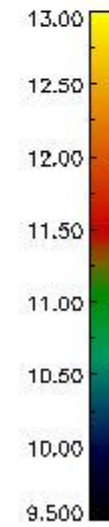
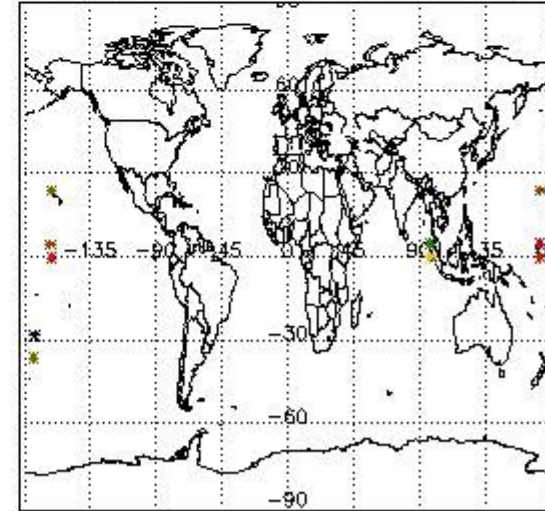
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

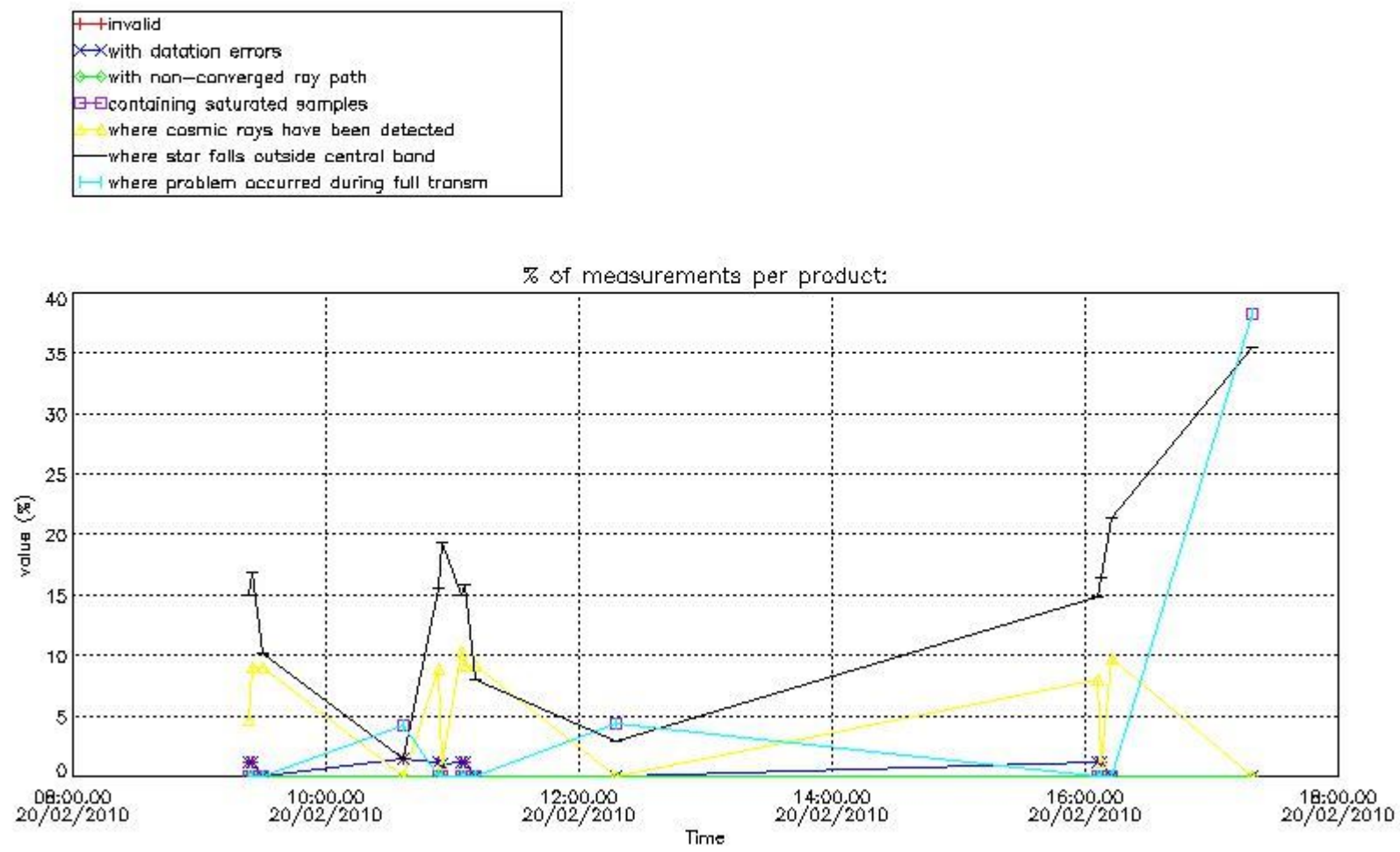


4. Level 1 quality information per product

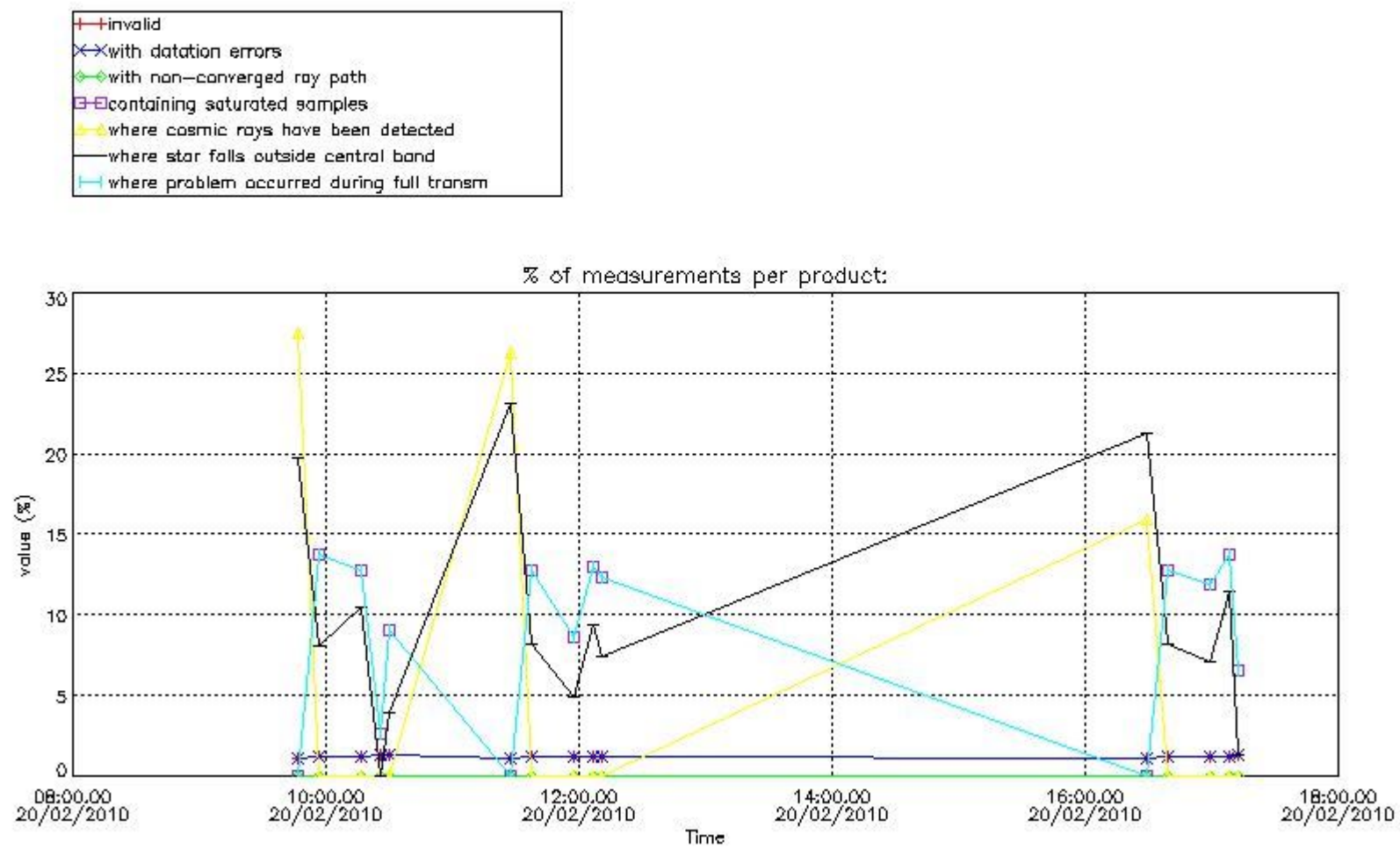
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



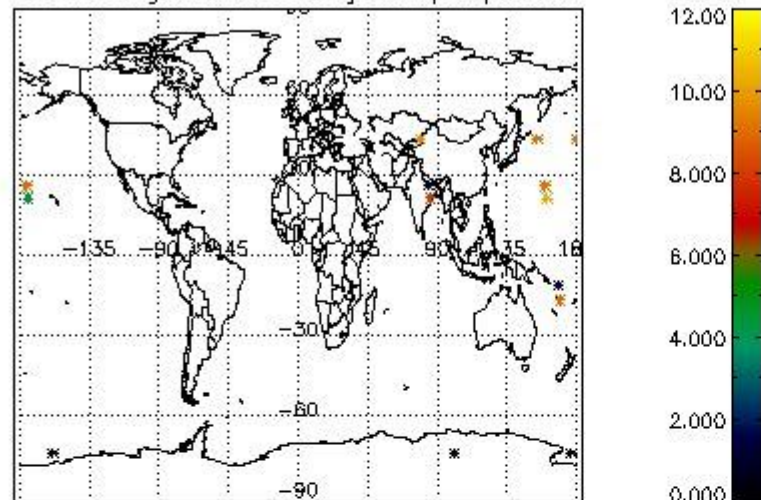
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



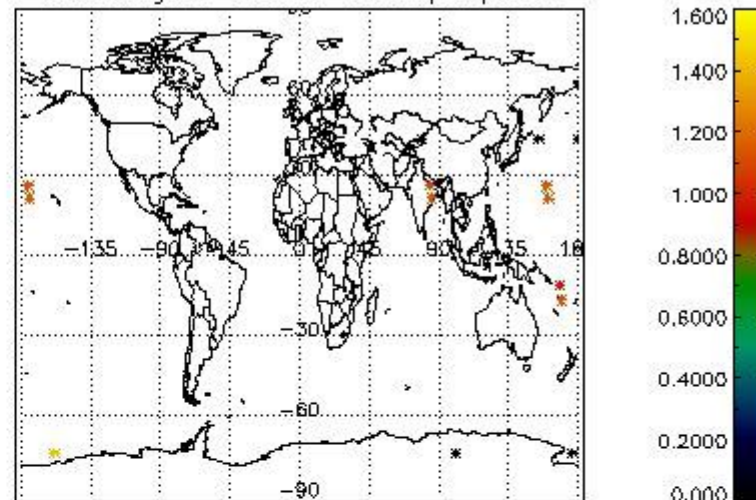
4.2 Plot quality information per product coming from level 1b processing (world map)

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

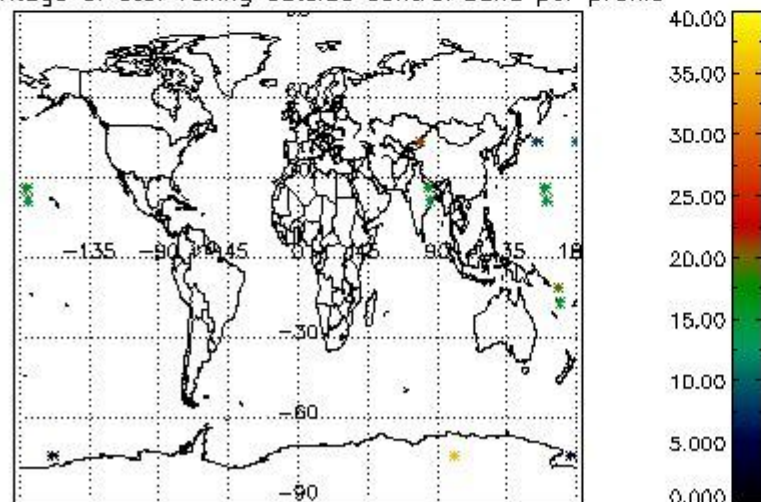
Percentage of cosmic ray hits per profile



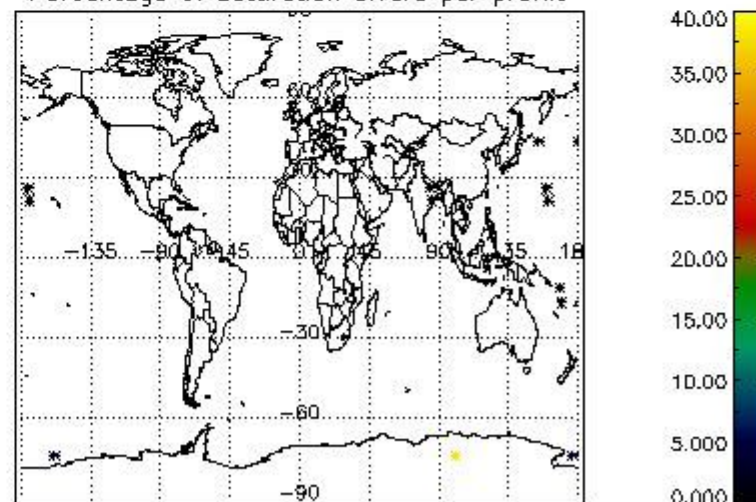
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

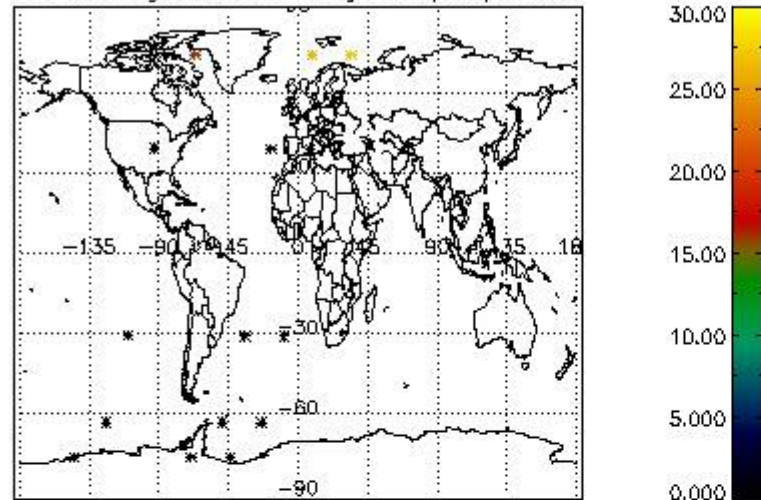


Percentage of saturation errors per profile

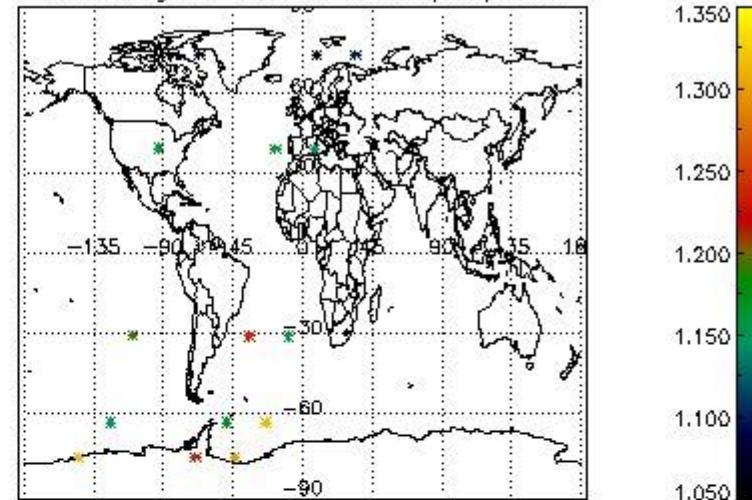


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

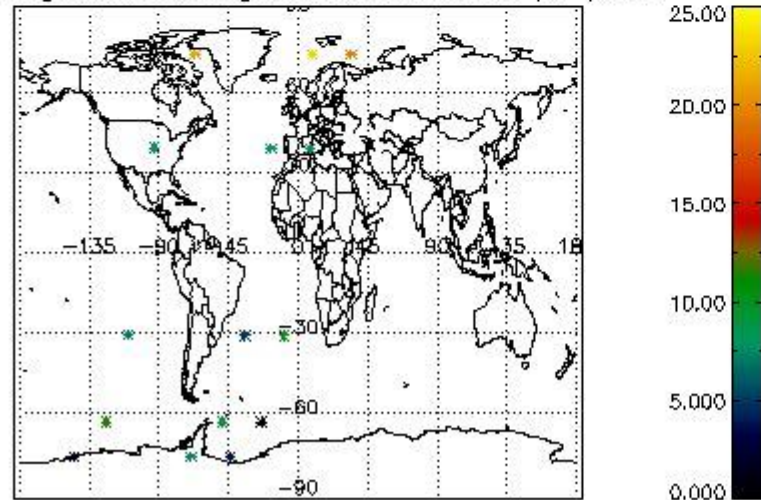
Percentage of cosmic ray hits per profile



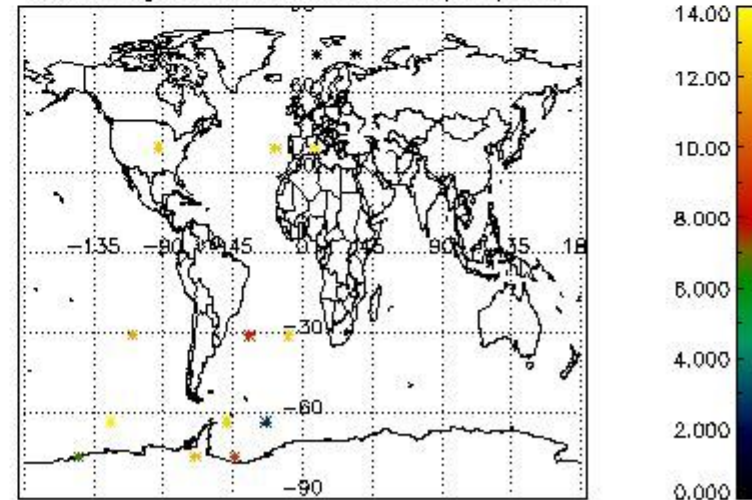
Percentage of datation errors per profile



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

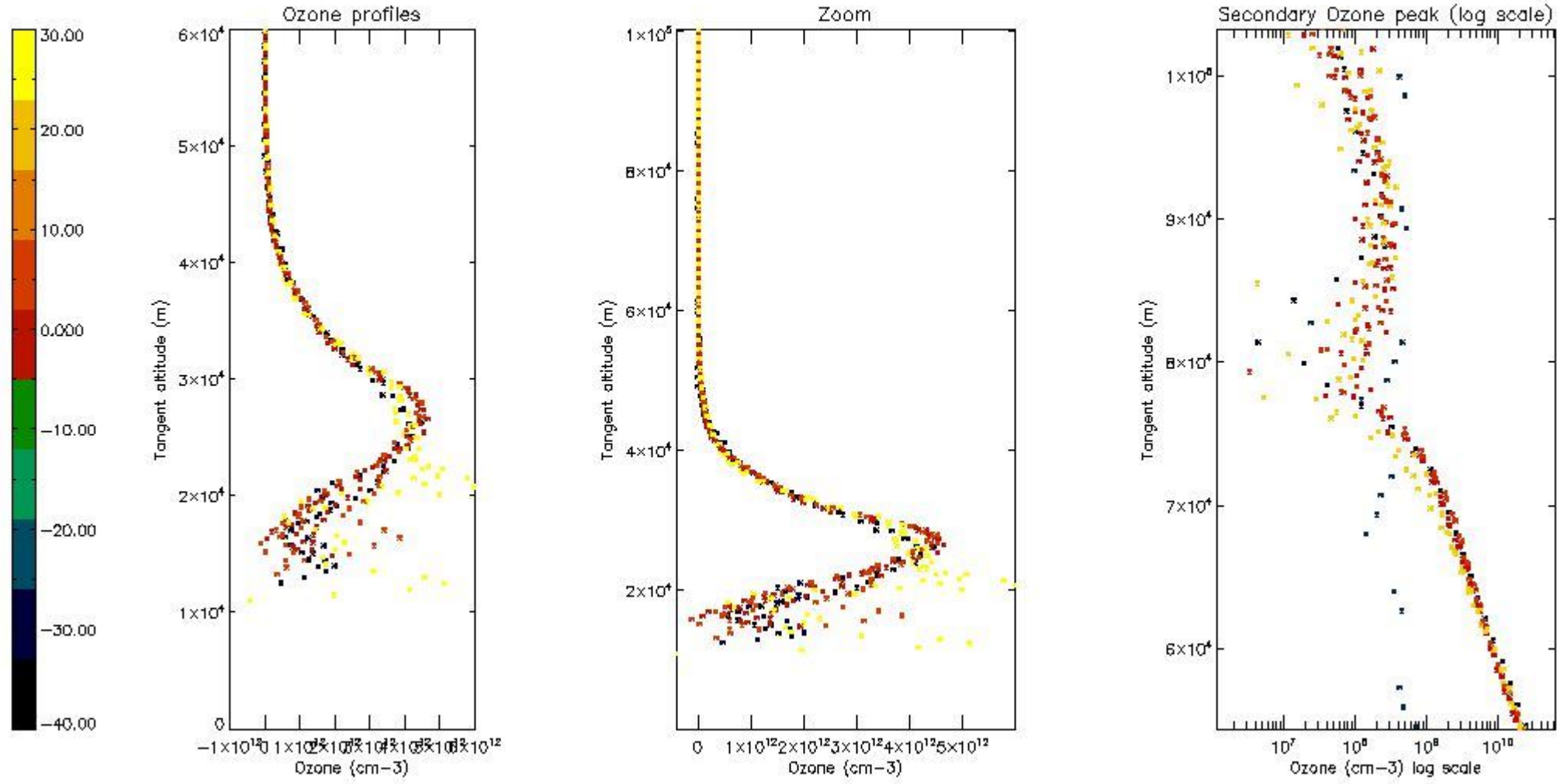
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	41
STD < 20	24

STD < 10	21
STD < 5	15

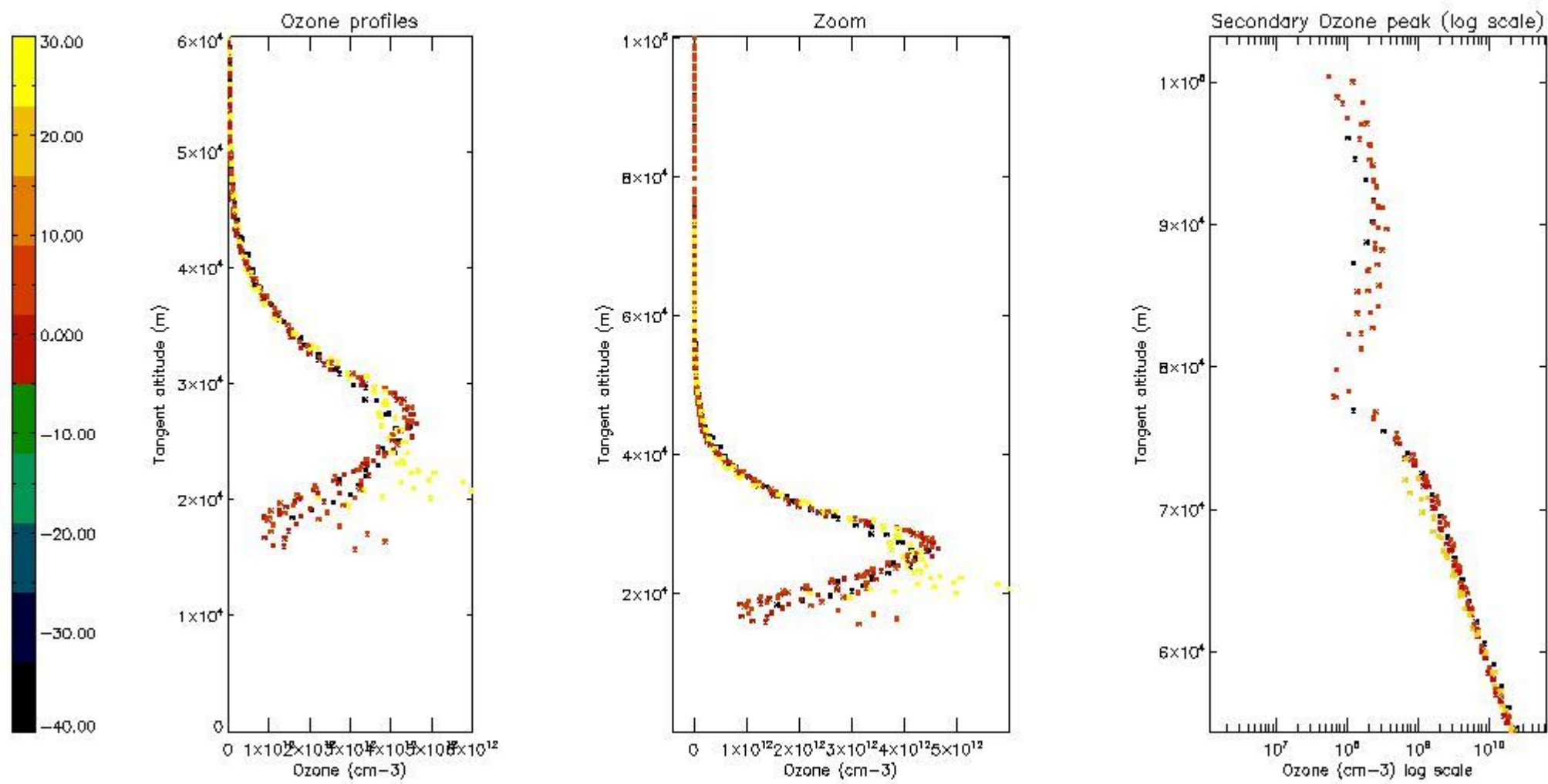
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



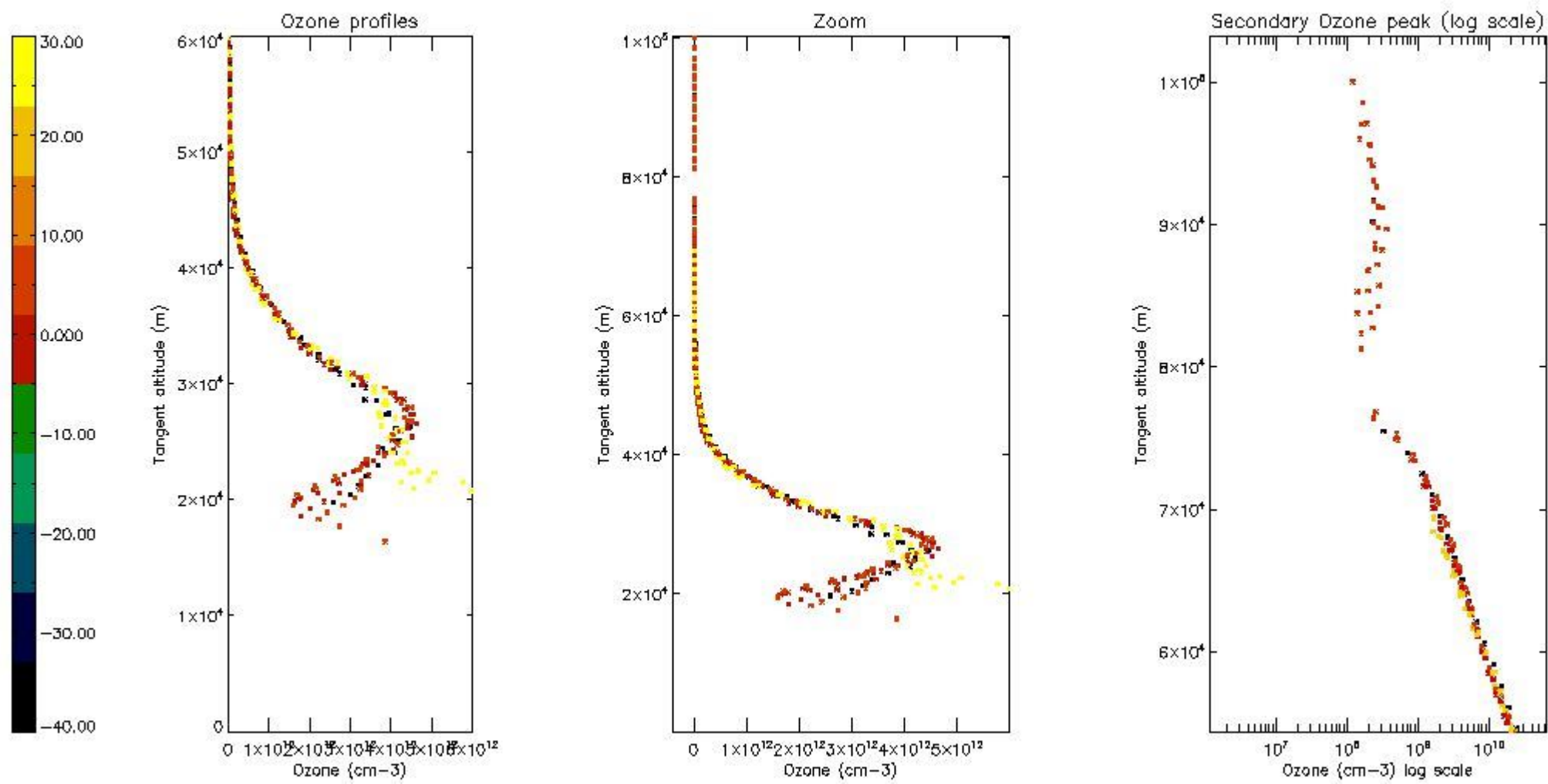
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



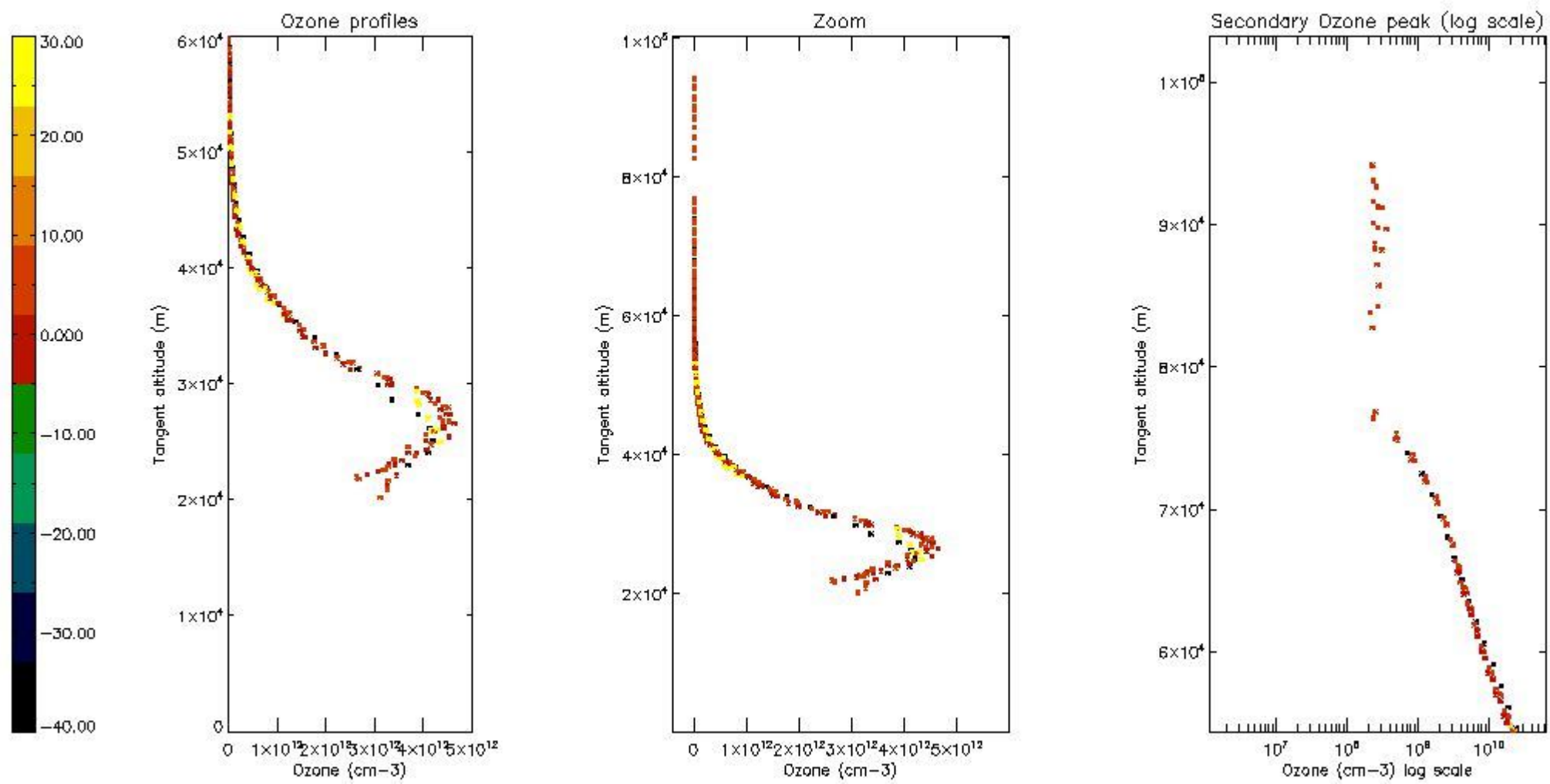
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



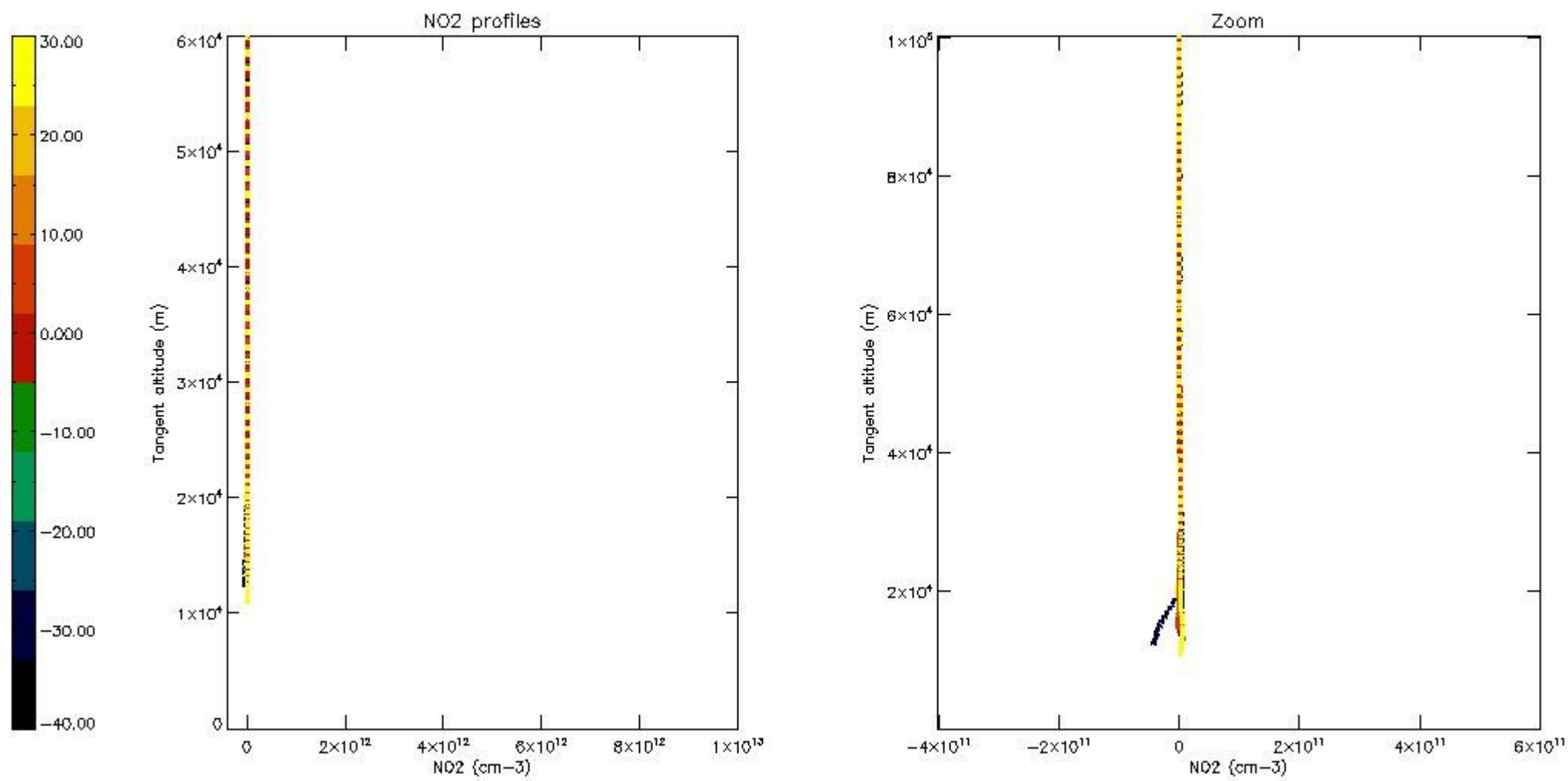
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



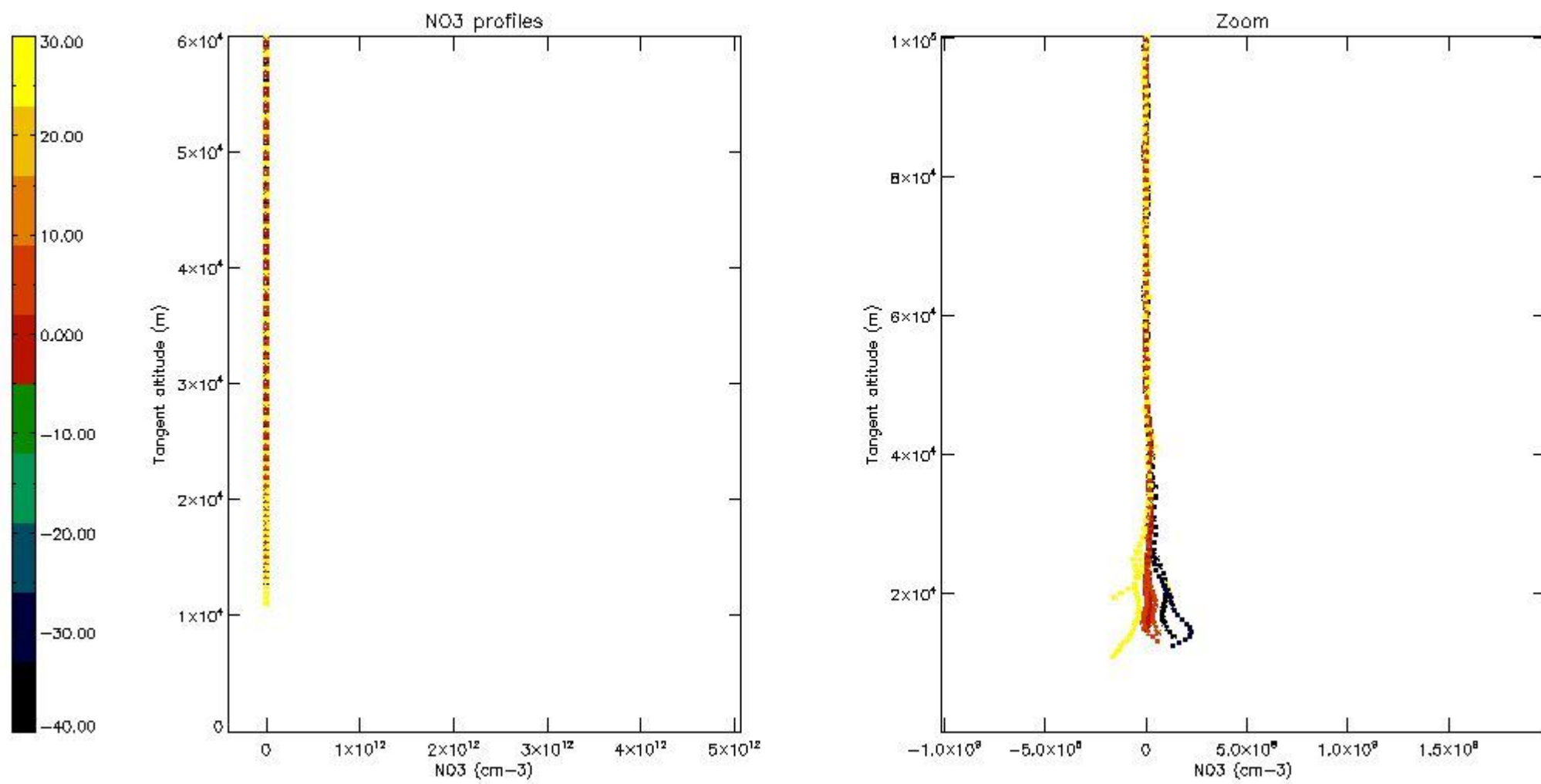
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



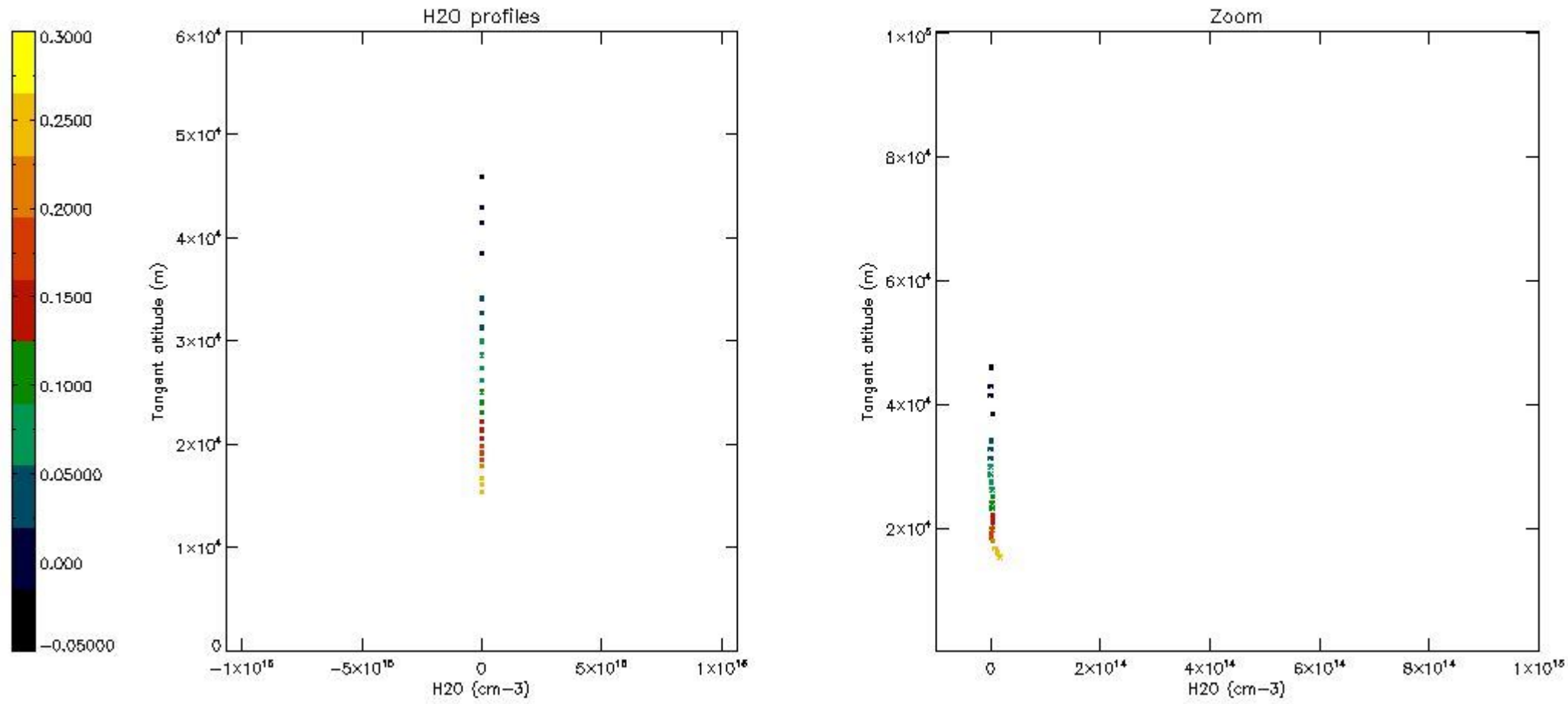
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	20-FEB-2010 09:23:36
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	20-FEB-2010 09:23:36
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	20-FEB-2010 09:23:36

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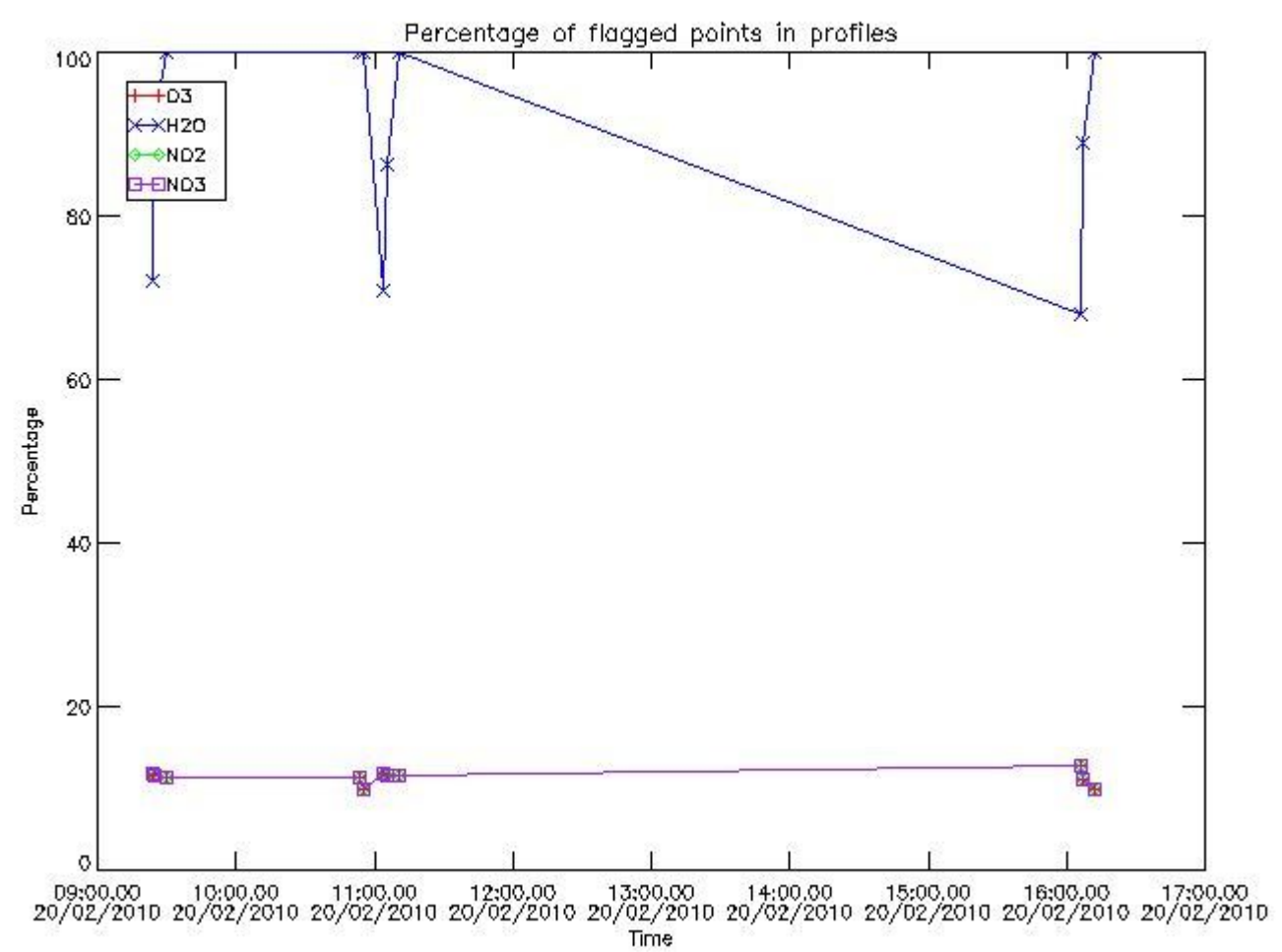
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3	GOM_NL__2PRFIN20100220_092949_000000452087_00065_41702_5987.N1	20-FEB-2010 09:29:49	Dark	44.500	64	Gam Cen	2.2000	10600.	89	41702	No
4	GOM_NL__2PRFIN20100220_094643_000000462087_00065_41702_5988.N1	20-FEB-2010 09:46:43	Twilight	45.500	48	30Alp Hya	1.9770	4100.0	91	41702	No
5	GOM_NL__2PRFIN20100220_095656_000000442087_00065_41702_5989.N1	20-FEB-2010 09:56:56	Bright	43.500	166	17Eps Leo	2.9800	6000.0	87	41702	No
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11	GOM_NL__2PRFIN20100220_105507_000000522087_00065_41702_5995.N1	20-FEB-2010 10:55:07	Dark	51.500	75	26Eps Sco	2.2910	4250.0	103	41702	No
12	GOM_NL__2PRFIN20100220_110413_000000442087_00066_41703_5993.N1	20-FEB-2010 11:04:13	Dark	43.500	4	Alp1Cen	-0.010000	5800.0	87	41703	No
13	GOM_NL__2PRFIN20100220_110533_000000442087_00066_41703_5994.N1	20-FEB-2010 11:05:33	Dark	44.000	10	Bet Cen	0.610000	28000.	88	41703	No
14	GOM_NL__2PRFIN20100220_111026_000000442087_00066_41703_5995.N1	20-FEB-2010 11:10:26	Dark	44.000	64	Gam Cen	2.2000	10600.	88	41703	No
15	GOM_NL__2PRFIN20100220_112719_000000482087_00066_41703_5996.N1	20-FEB-2010 11:27:19	Twilight	47.500	48	30Alp Hya	1.9770	4100.0	95	41703	No
16	GOM_NL__2PRFIN20100220_113731_000000432087_00066_41703_5997.N1	20-FEB-2010 11:37:31	Bright	43.000	166	17Eps Leo	2.9800	6000.0	86	41703	No
17	GOM_NL__2PRFIN20100220_115710_000000412087_00066_41703_5998.N1	20-FEB-2010 11:57:10	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	41703	No
18	GOM_NL__2PRFIN20100220_120628_000000432087_00066_41703_5999.N1	20-FEB-2010 12:06:28	Bright	42.500	69	33Gam Dra	2.2310	3800.0	85	41703	No
19	GOM_NL__2PRFIN20100220_121030_000000412087_00066_41703_6000.N1	20-FEB-2010 12:10:30	Bright	40.500	5	3Alp Lyr	0.033000	11000.	81	41703	No
20	GOM_NL__2PRFIN20100220_121737_000000352087_00066_41703_6001.N1	20-FEB-2010 12:17:37	Bright	34.500	168	17Zet Aql	2.9860	11000.	69	41703	No
21	GOM_NL__2PRFIN20100220_160602_000000442087_00069_41706_6019.N1	20-FEB-2010 16:06:02	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	41706	No
22	GOM_NL__2PRFIN20100220_160722_000000462087_00069_41706_6020.N1	20-FEB-2010 16:07:22	Dark	45.500	10	Bet Cen	0.610000	28000.	91	41706	No
23	GOM_NL__2PRFIN20100220_161216_000000522087_00069_41706_6021.N1	20-FEB-2010 16:12:16	Dark	51.500	64	Gam Cen	2.2000	10600.	103	41706	No
24	GOM_NL__2PRFIN20100220_162907_000000472087_00069_41706_6022.N1	20-FEB-2010 16:29:07	Twilight	47.000	48	30Alp Hya	1.9770	4100.0	94	41706	No
25	GOM_NL__2PRFIN20100220_163918_000000432087_00069_41706_6023.N1	20-FEB-2010 16:39:18	Bright	43.000	166	17Eps Leo	2.9800	6000.0	86	41706	No
26	GOM_NL__2PRFIN20100220_165856_000000422087_00069_41706_6024.N1	20-FEB-2010 16:58:56	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	41706	No
27	GOM_NL__2PRFIN20100220_170815_000000442087_00069_41706_6025.N1	20-FEB-2010 17:08:15	Bright	43.500	69	33Gam Dra	2.2310	3800.0	87	41706	No
28	GOM_NL__2PRFIN20100220_171218_000000382087_00069_41706_6026.N1	20-FEB-2010 17:12:18	Bright	38.000	5	3Alp Lyr	0.033000	11000.	76	41706	No
29	GOM_NL__2PRFIN20100220_171926_000000542087_00069_41706_6027.N1	20-FEB-2010 17:19:26	Bright	53.500	168	17Zet Aql	2.9860	11000.	107	41706	No

3. Quality information per product

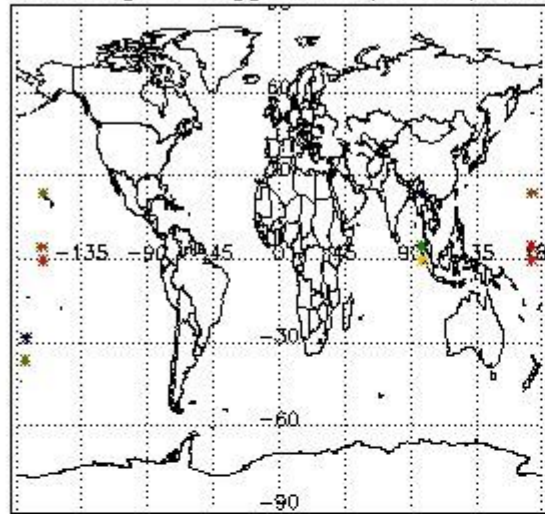
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

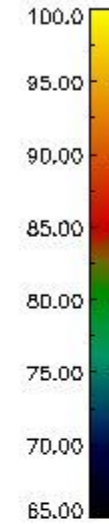
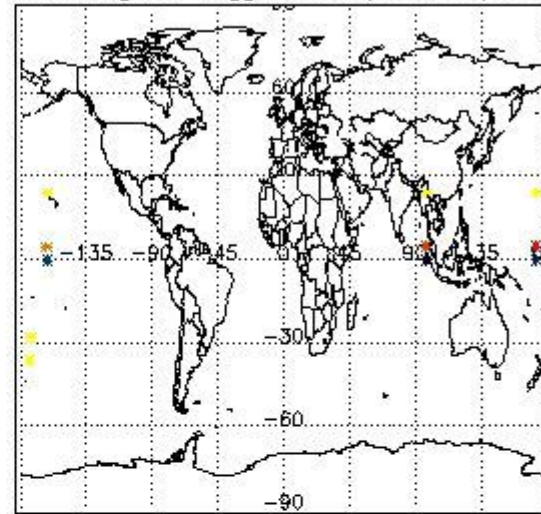


3.2 Plot quality information per product (world map)

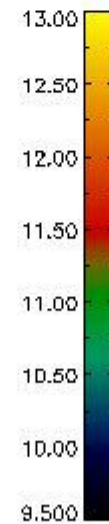
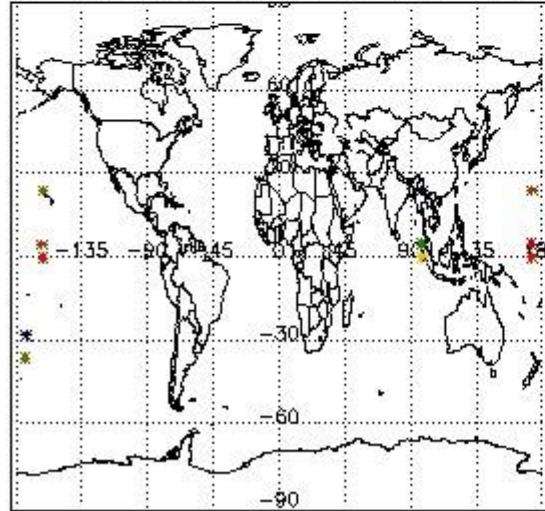
Percentage of flagged data per O3 profile



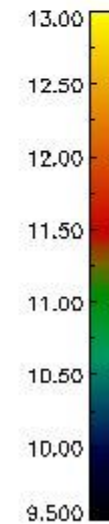
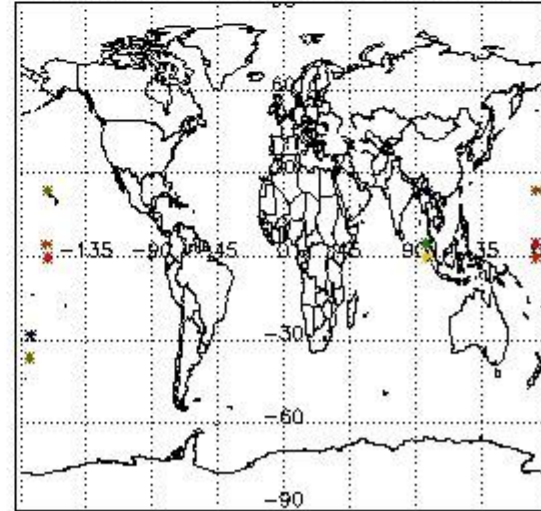
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

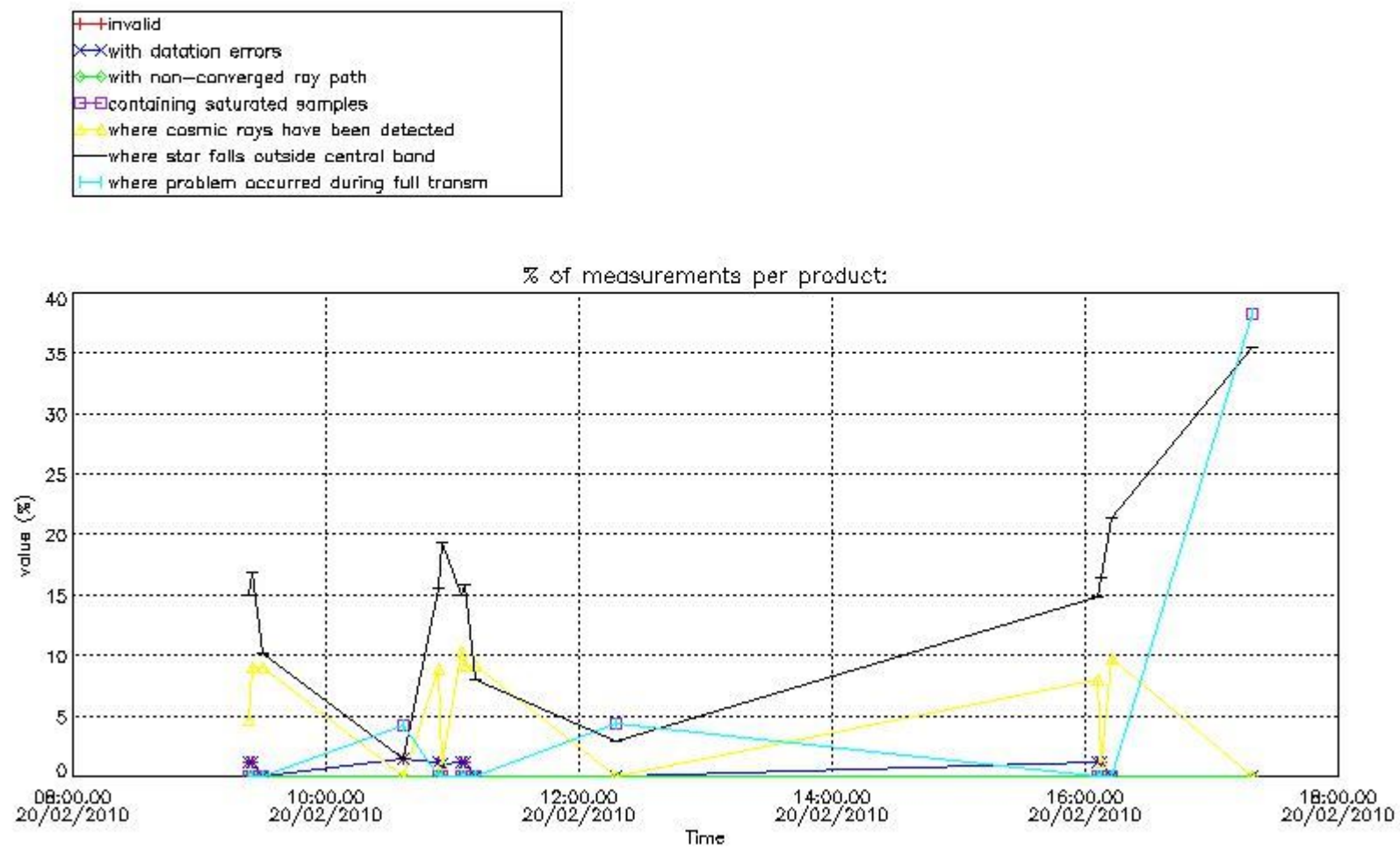


4. Level 1 quality information per product

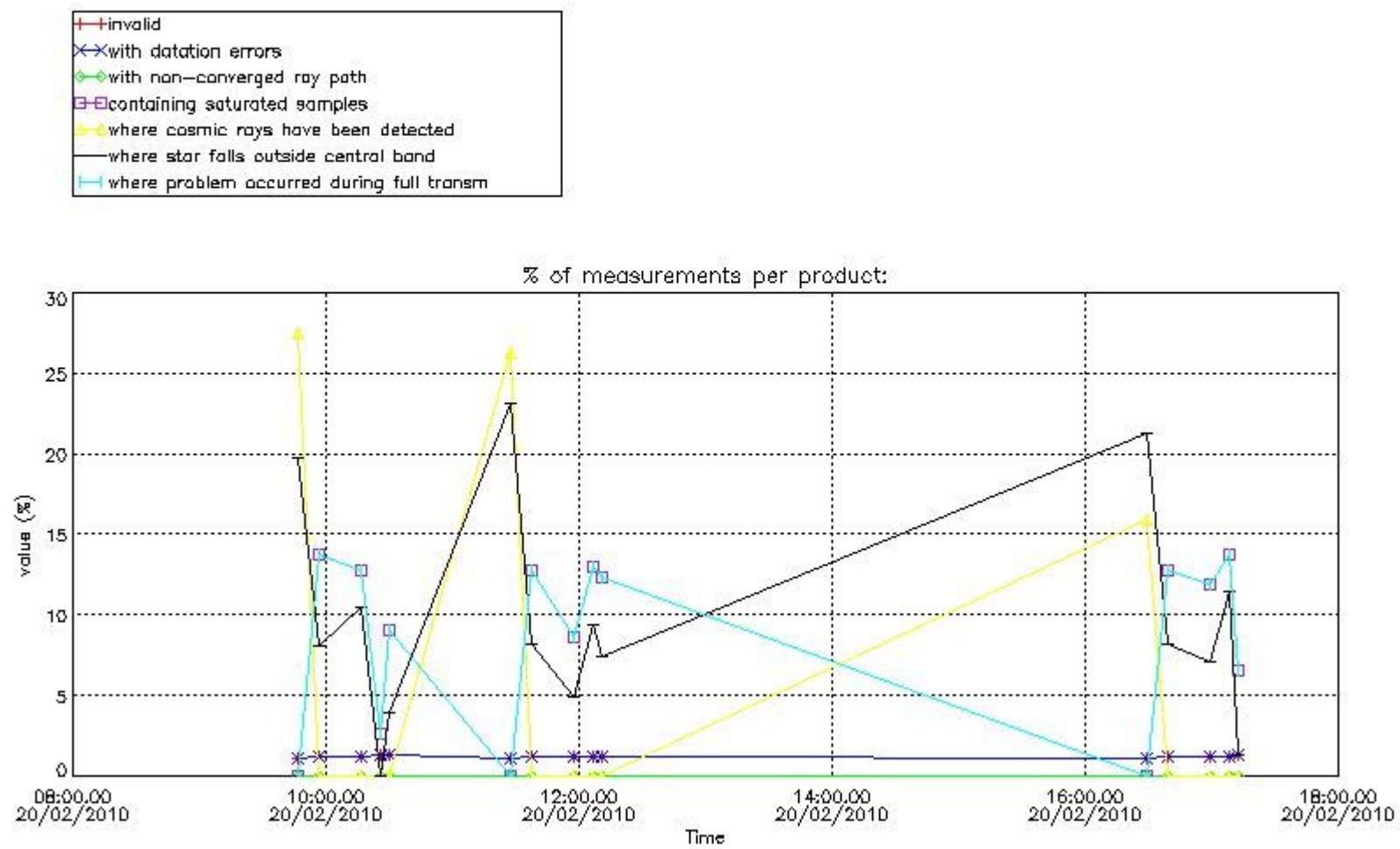
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



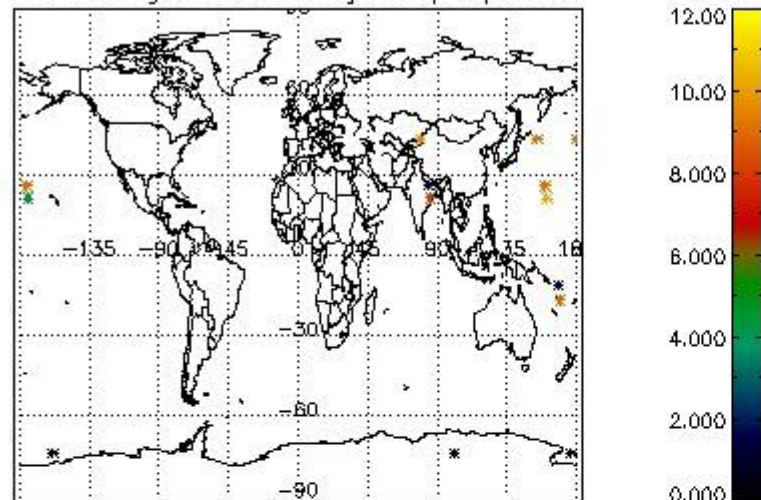
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



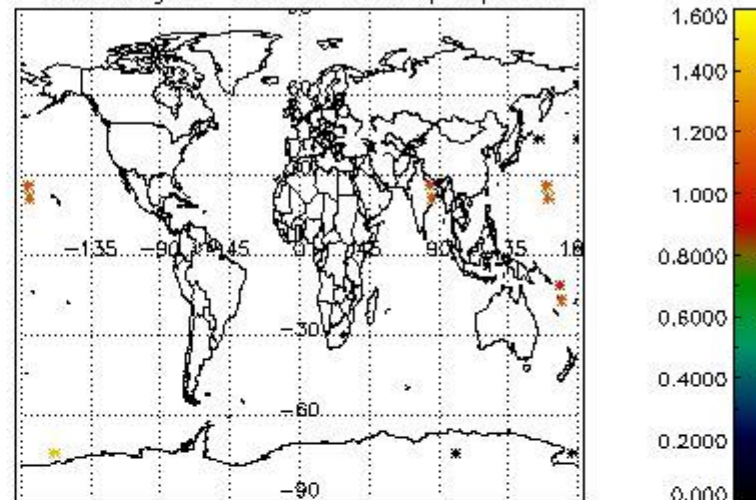
4.2 Plot quality information per product coming from level 1b processing (world map)

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

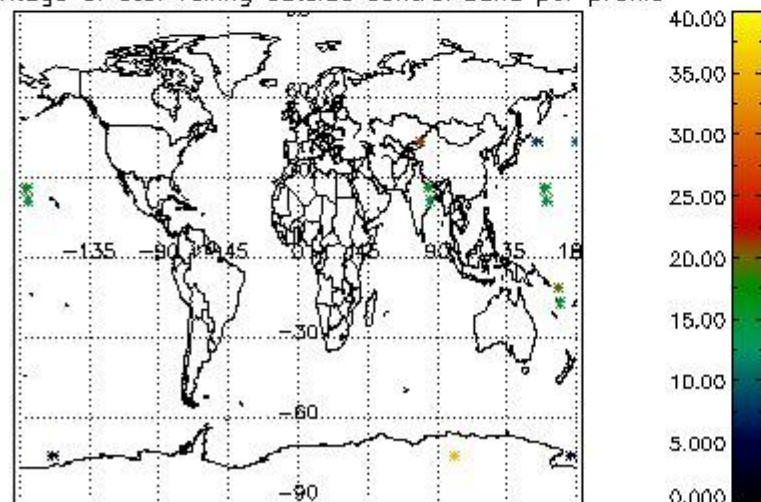
Percentage of cosmic ray hits per profile



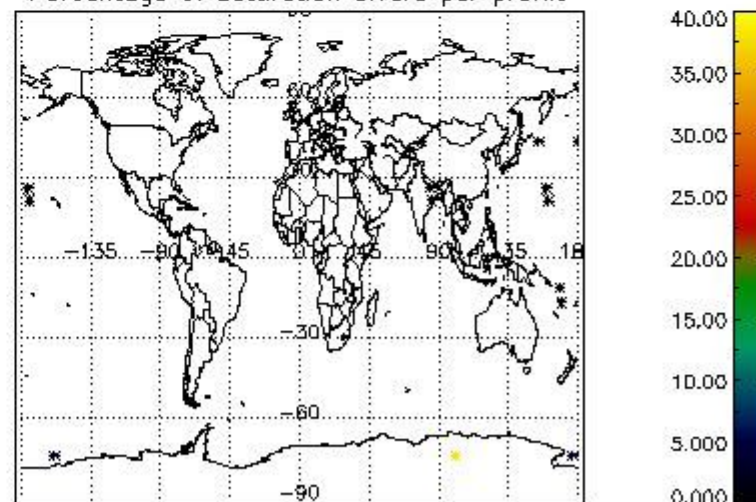
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

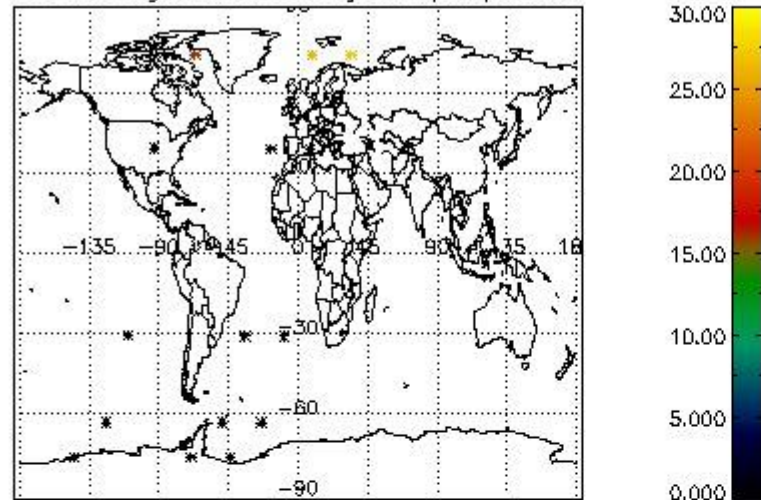


Percentage of saturation errors per profile

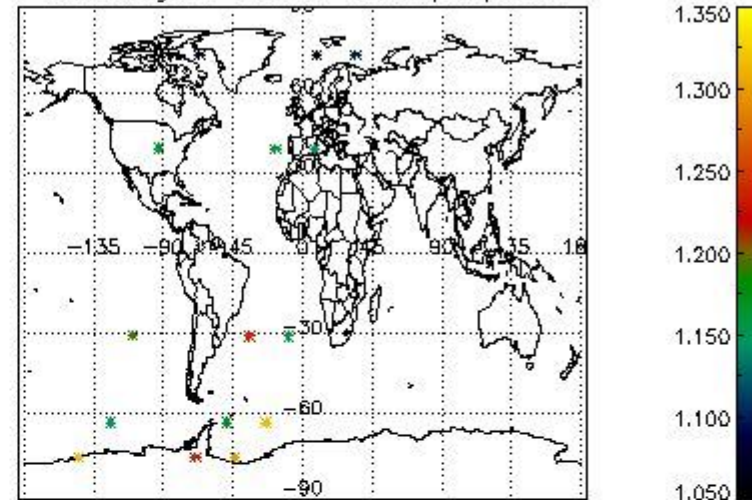


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

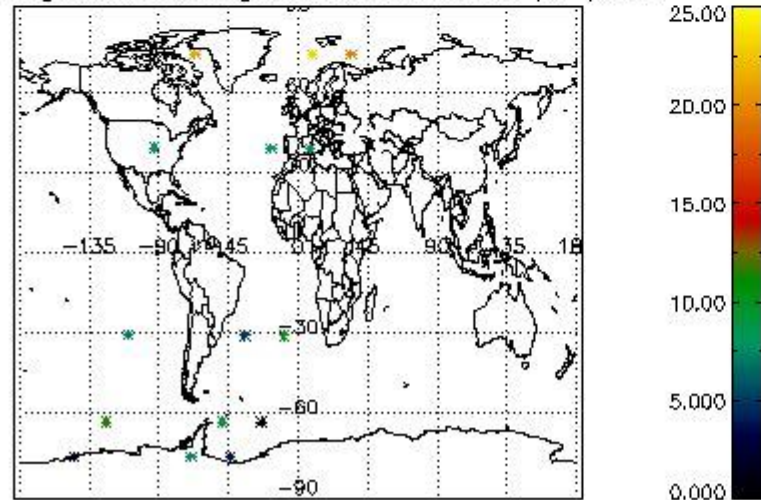
Percentage of cosmic ray hits per profile



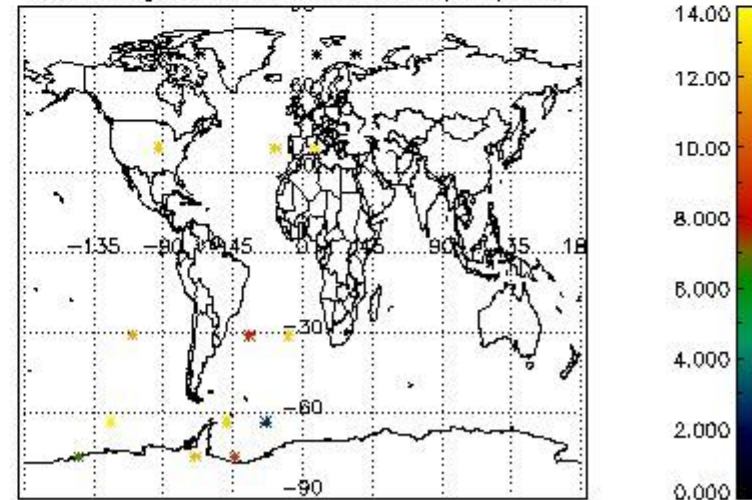
Percentage of datation errors per profile



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

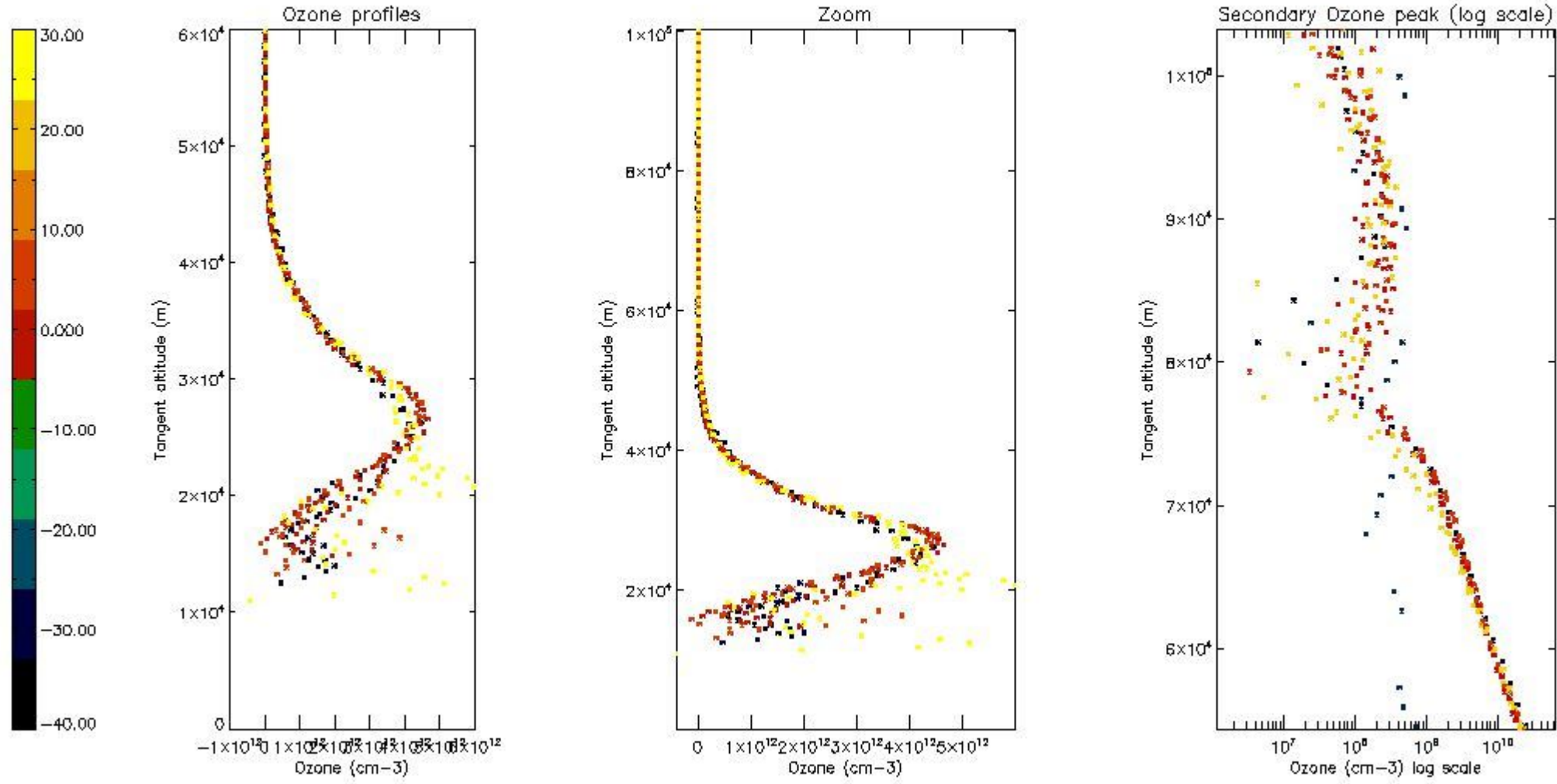
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	41
STD < 20	24

STD < 10	21
STD < 5	15

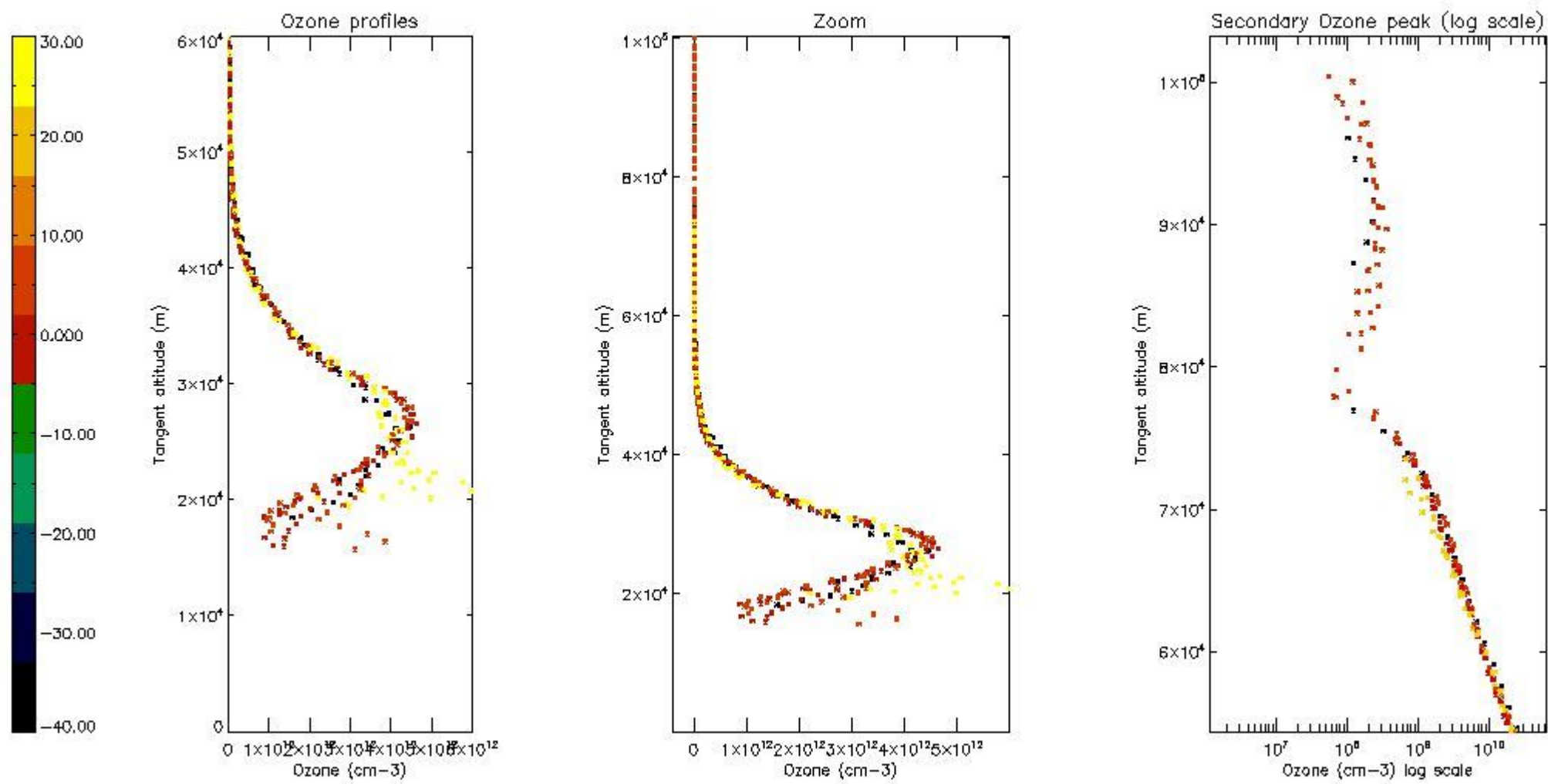
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



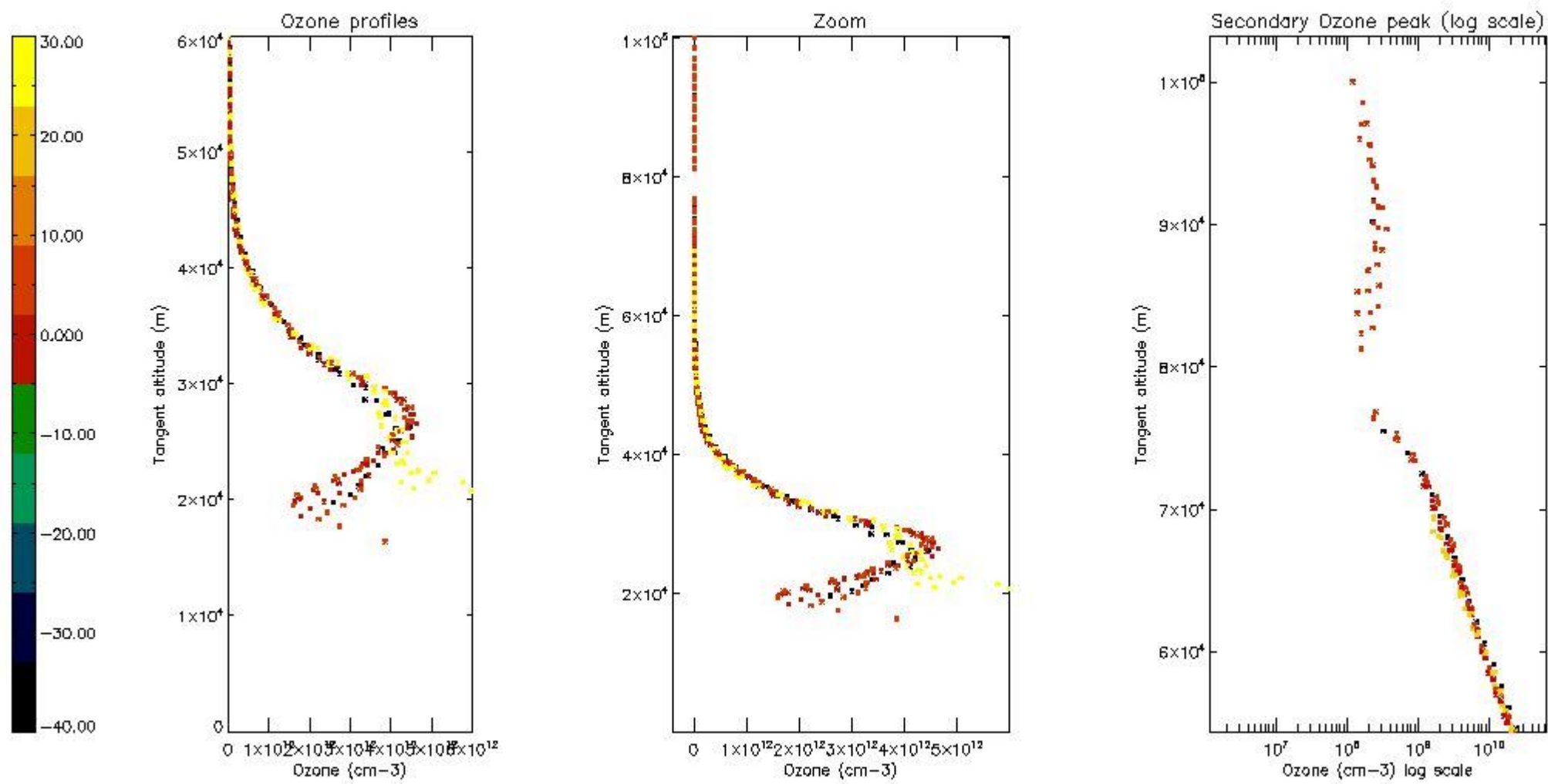
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



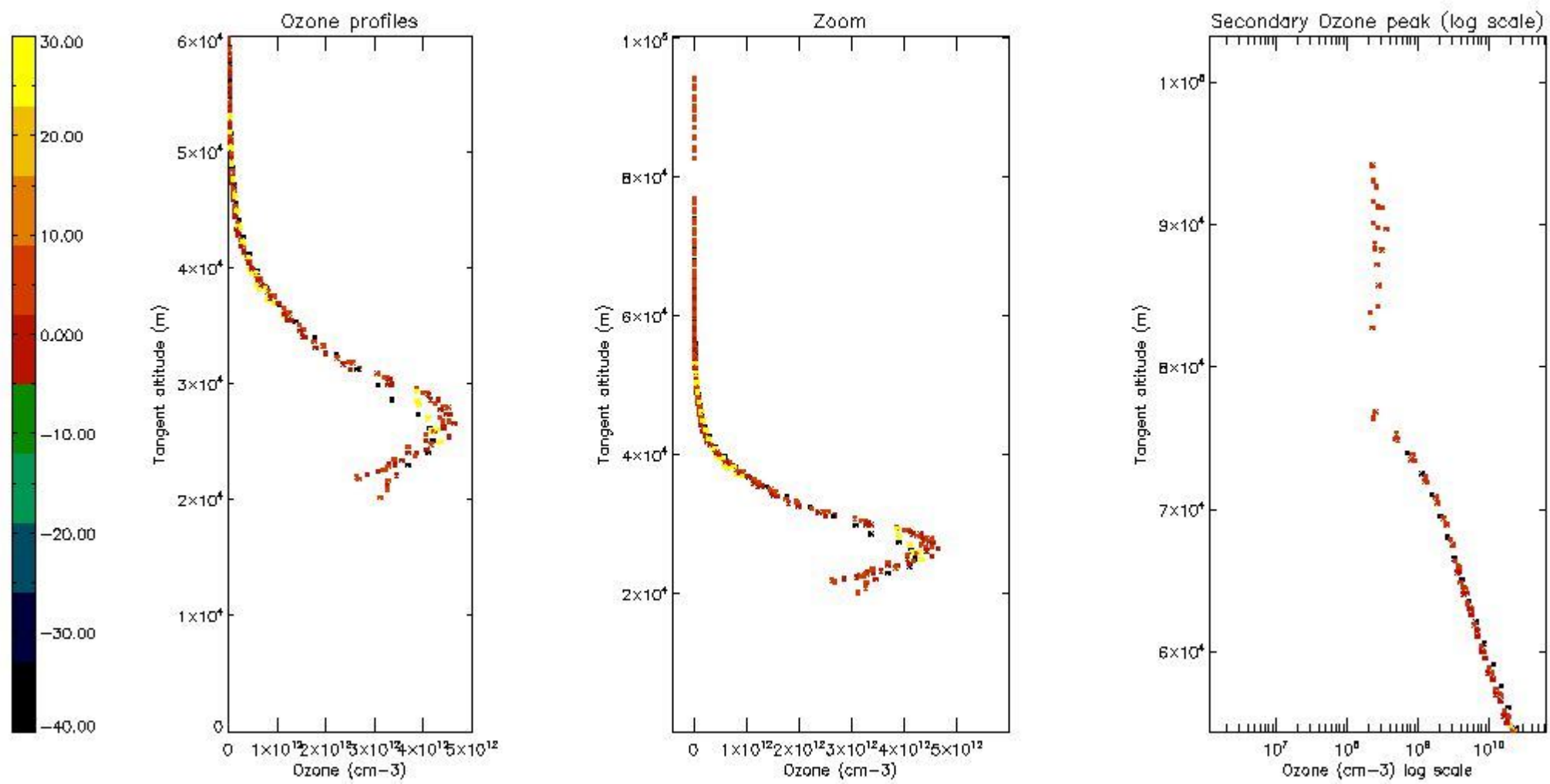
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



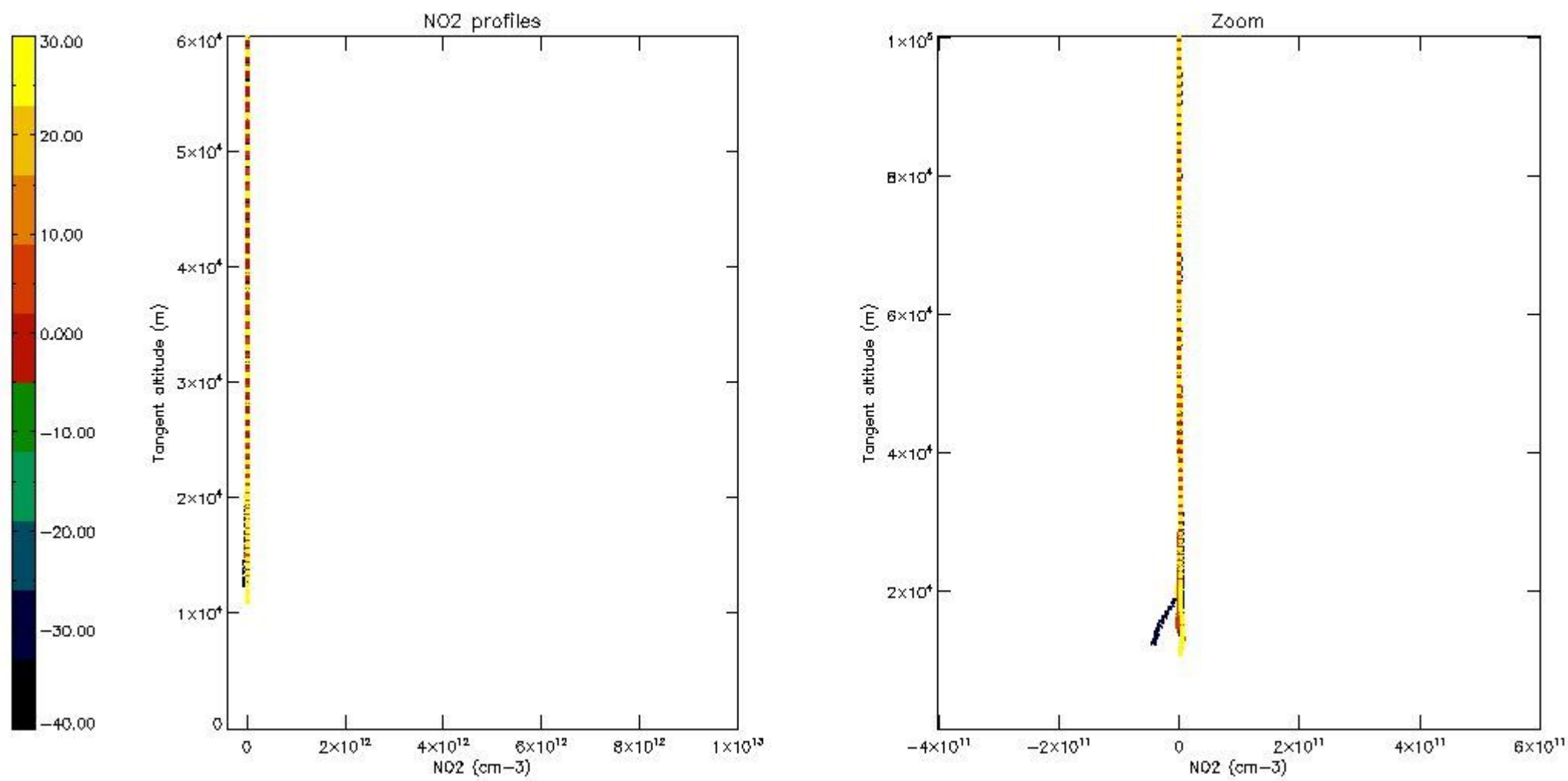
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



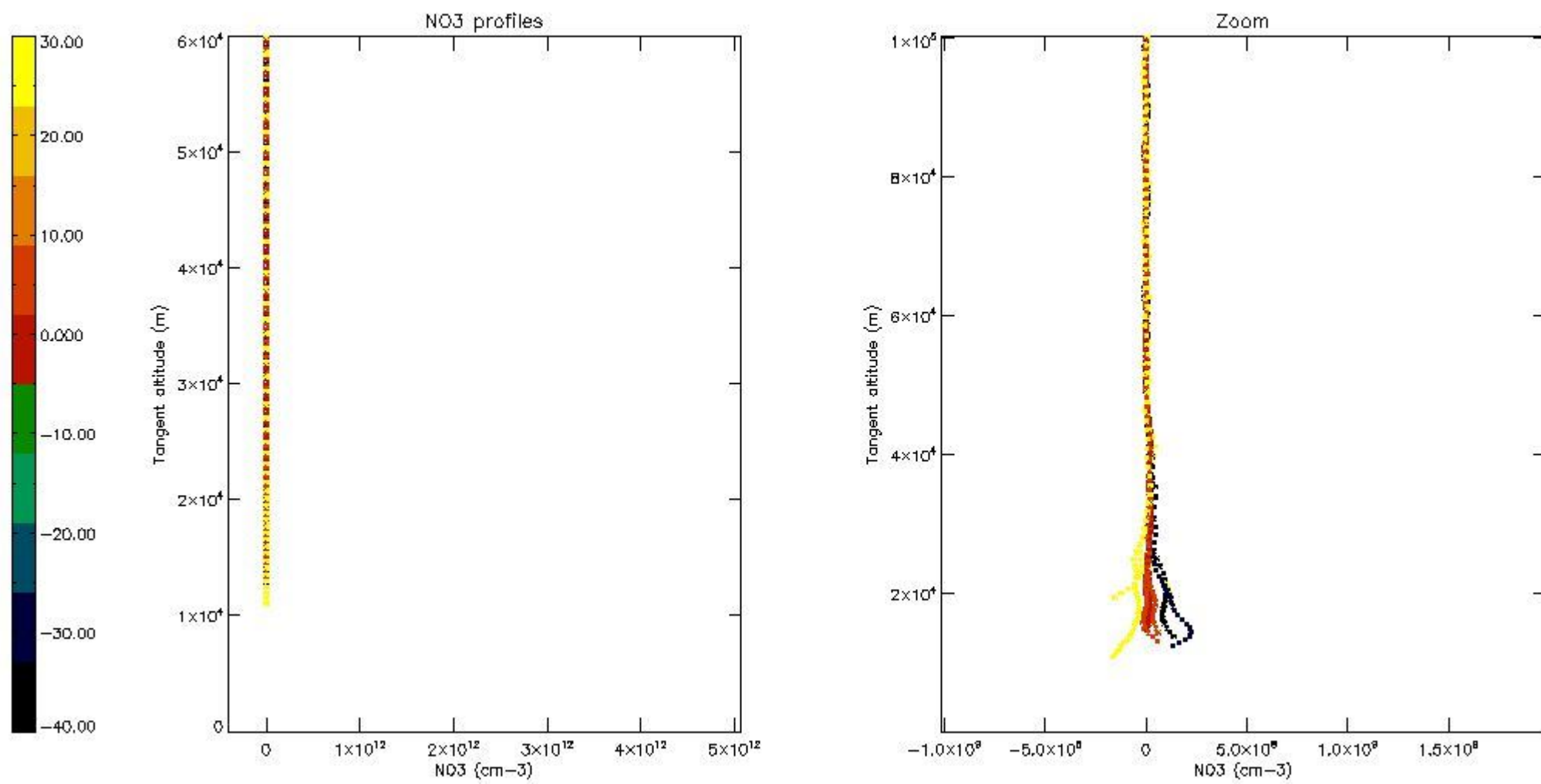
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



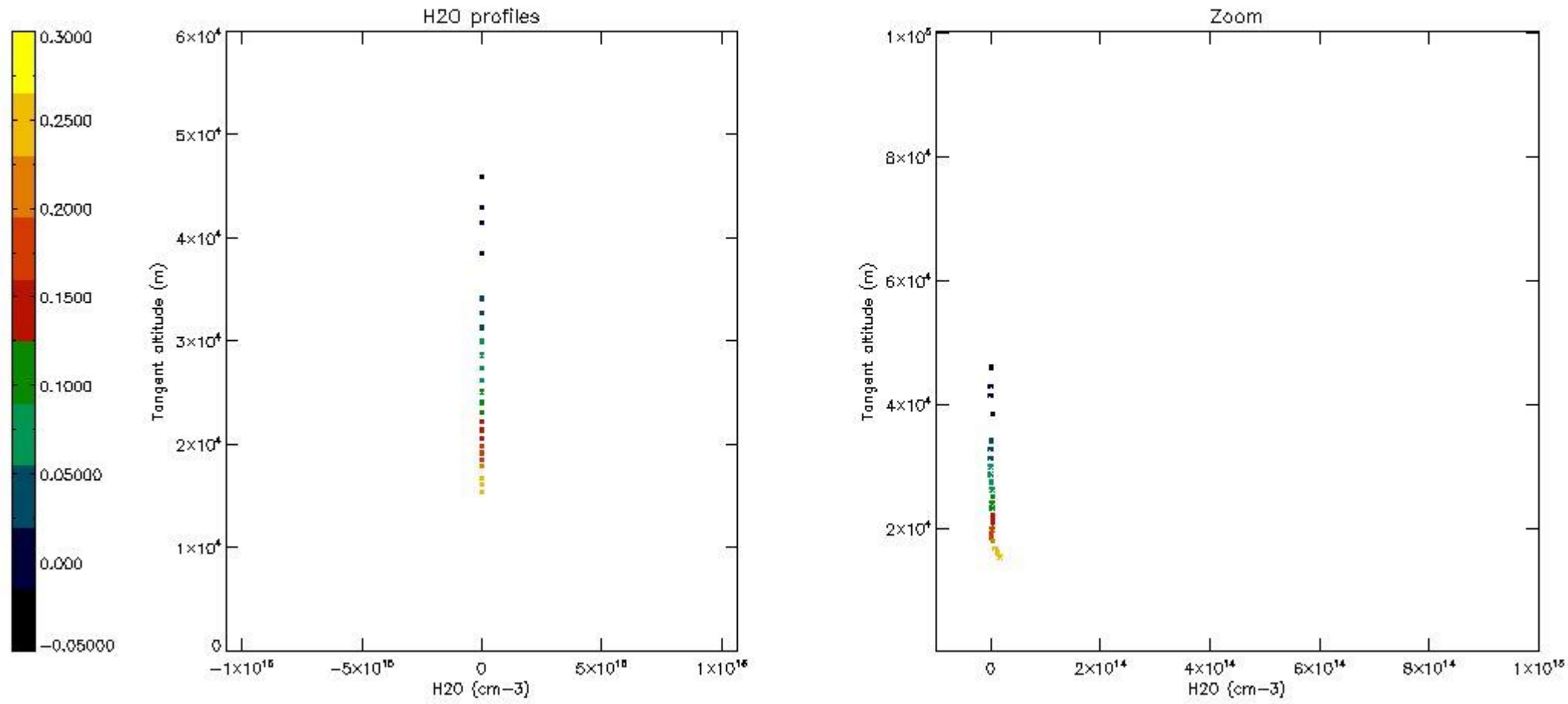
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

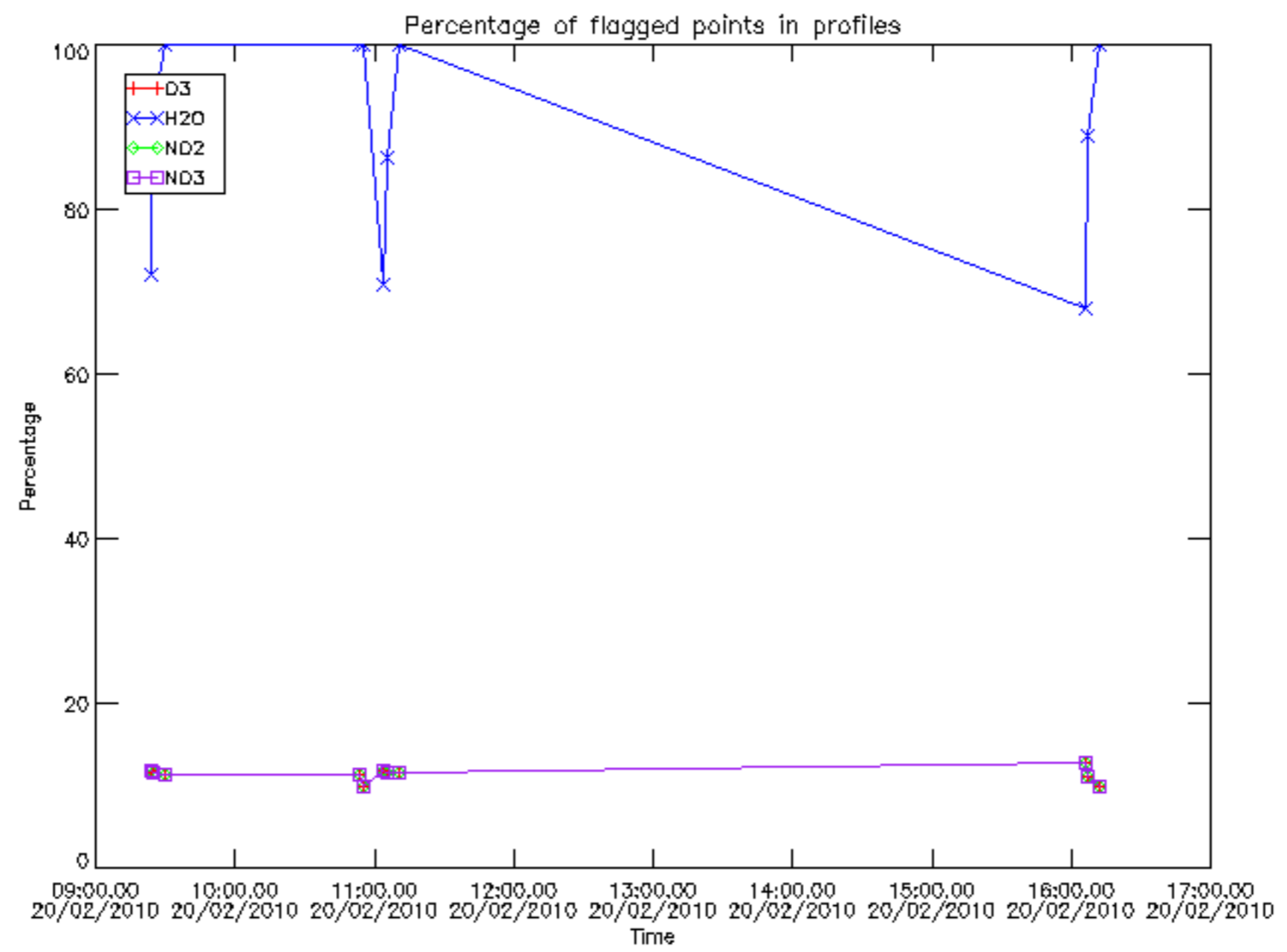
The colorbar represents the latitude.



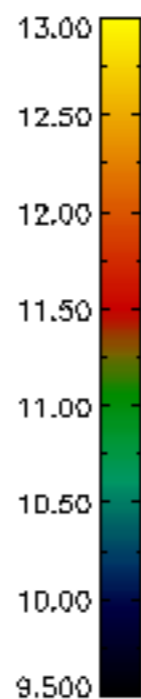
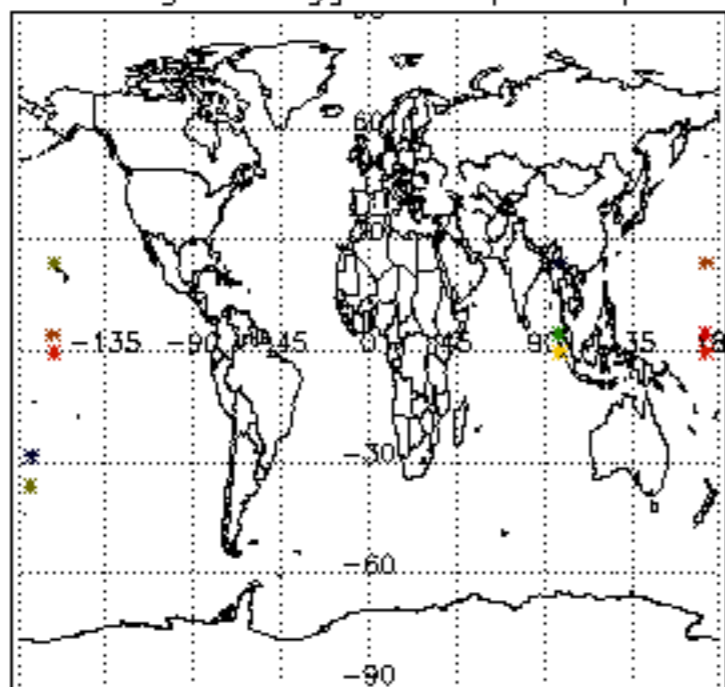
6. Auxiliary Data Files used for the production reported in section 2

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

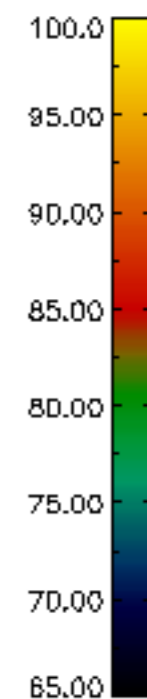
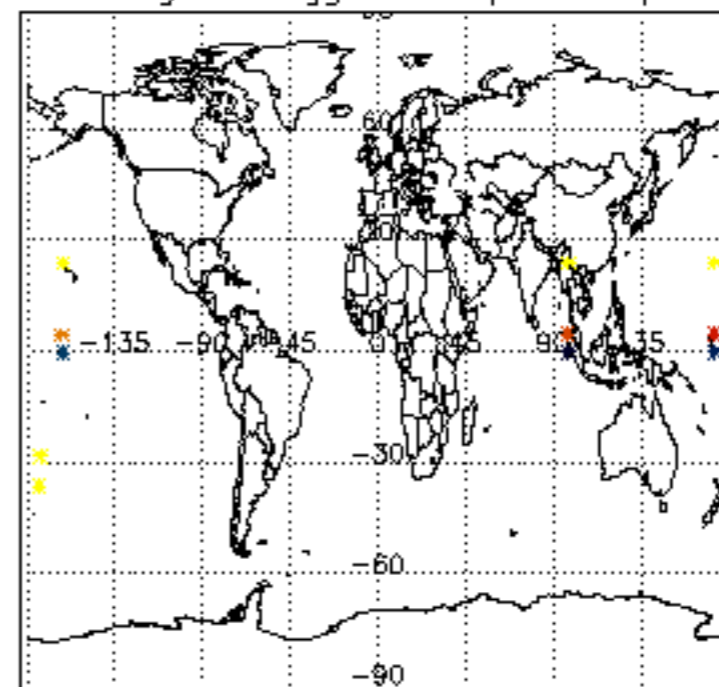
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	20-FEB-2010 09:23:36
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	20-FEB-2010 09:23:36
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	20-FEB-2010 09:23:36



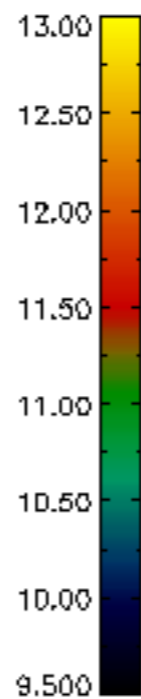
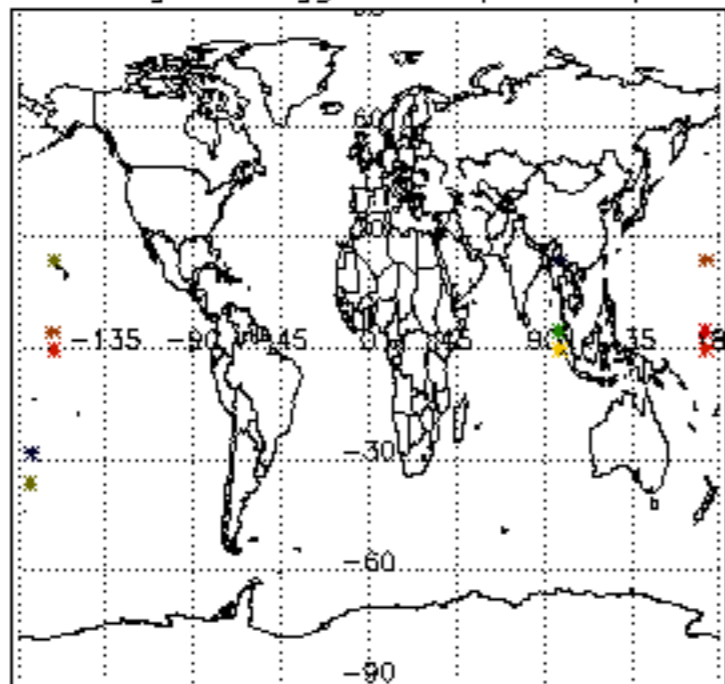
Percentage of flagged data per D3 profile



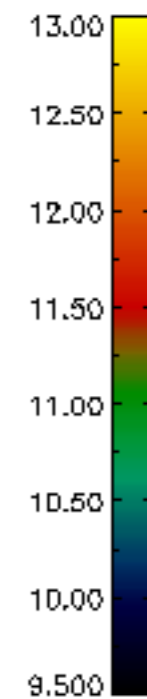
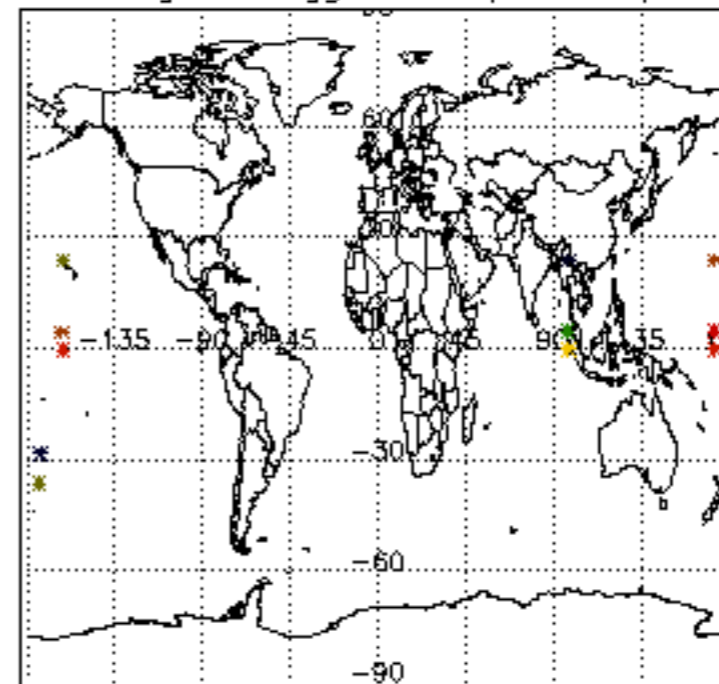
Percentage of flagged data per H2O profile

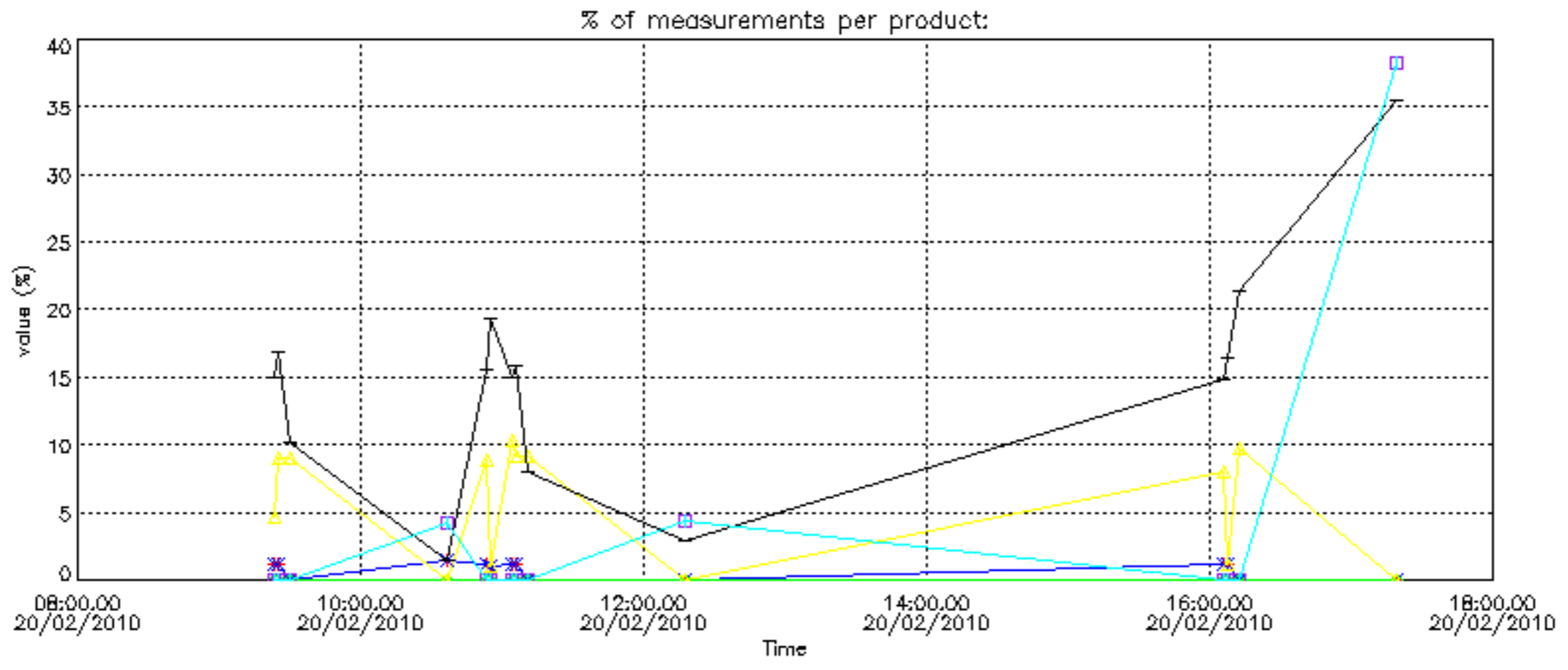


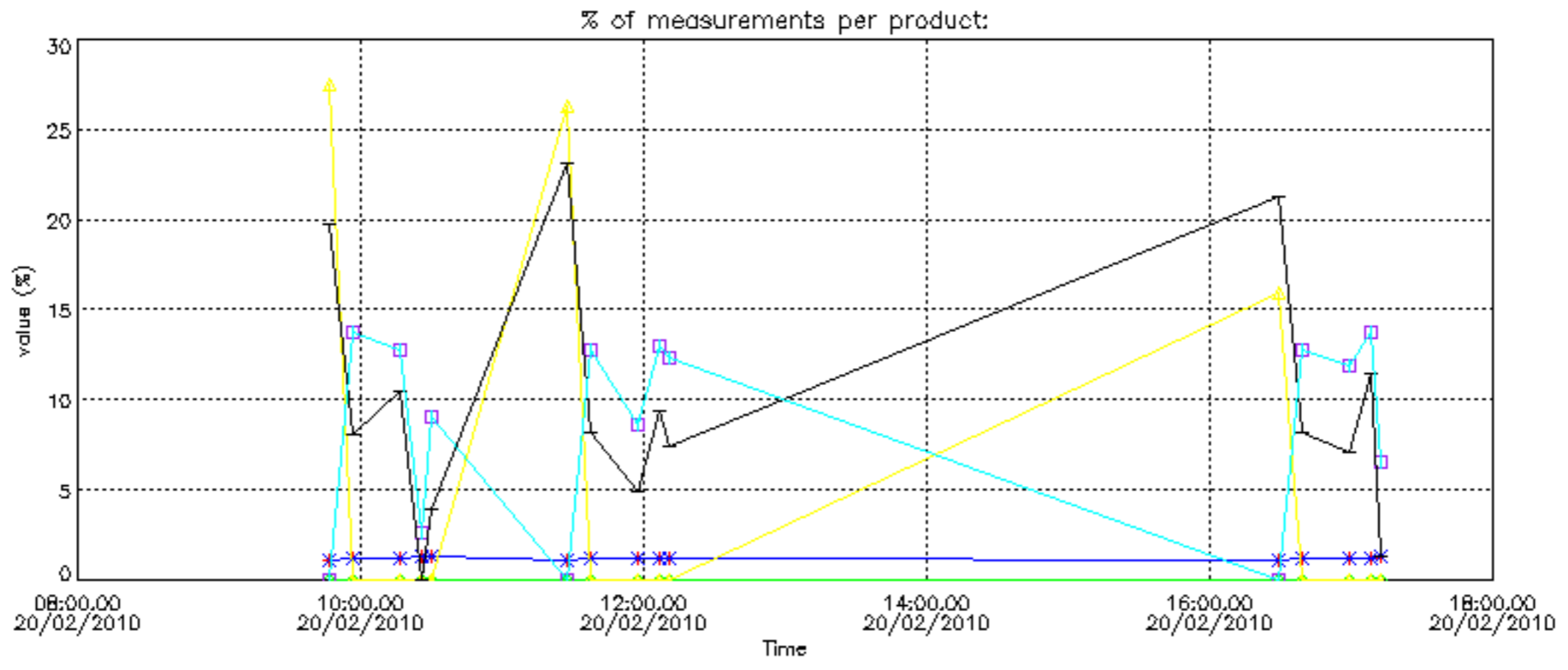
Percentage of flagged data per NO2 profile



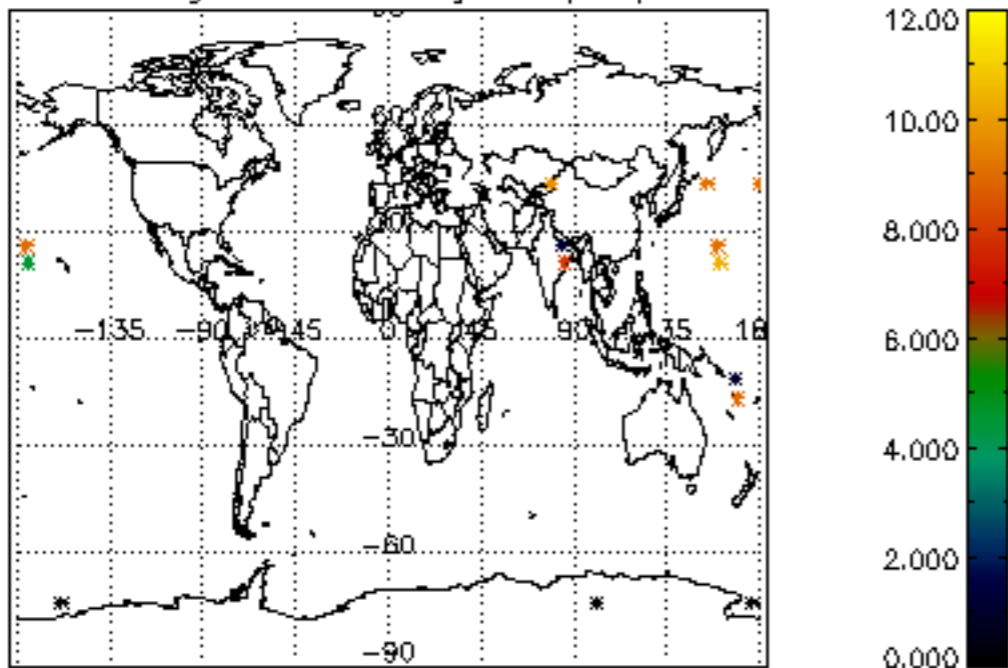
Percentage of flagged data per NO3 profile



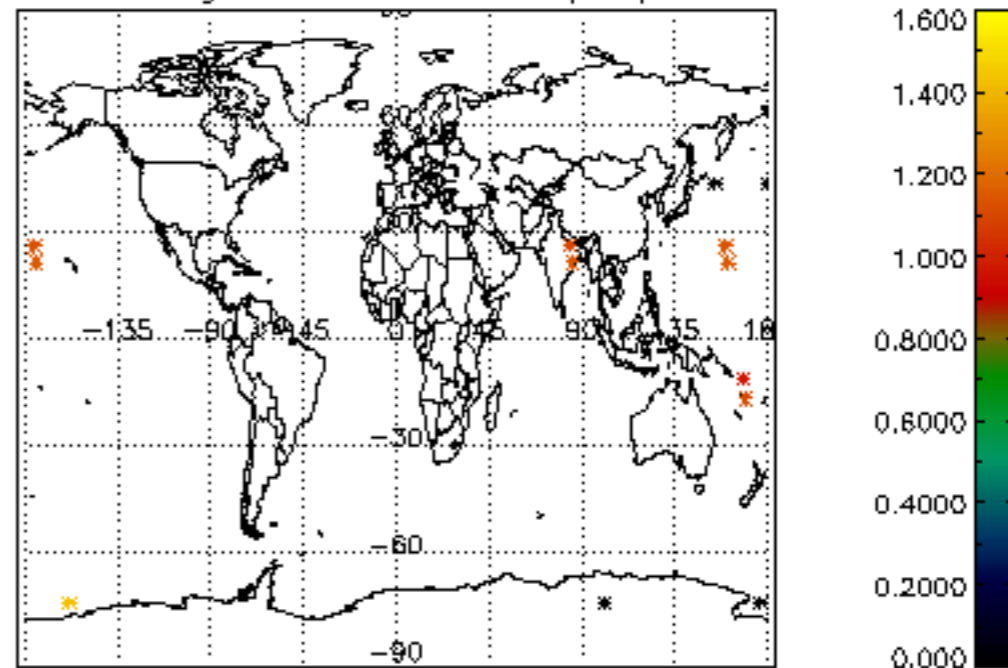




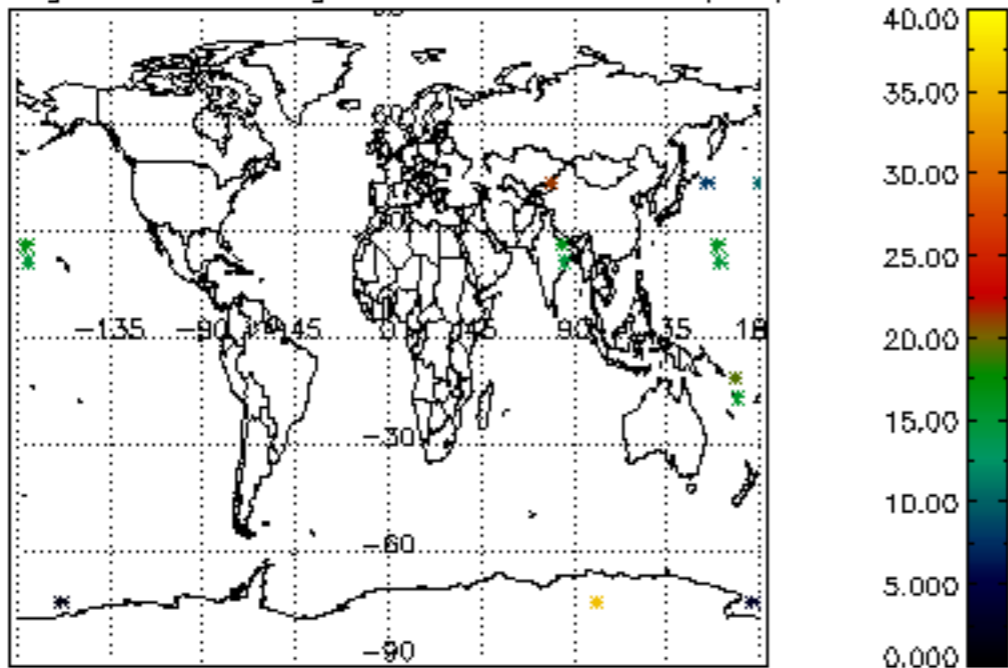
Percentage of cosmic ray hits per profile



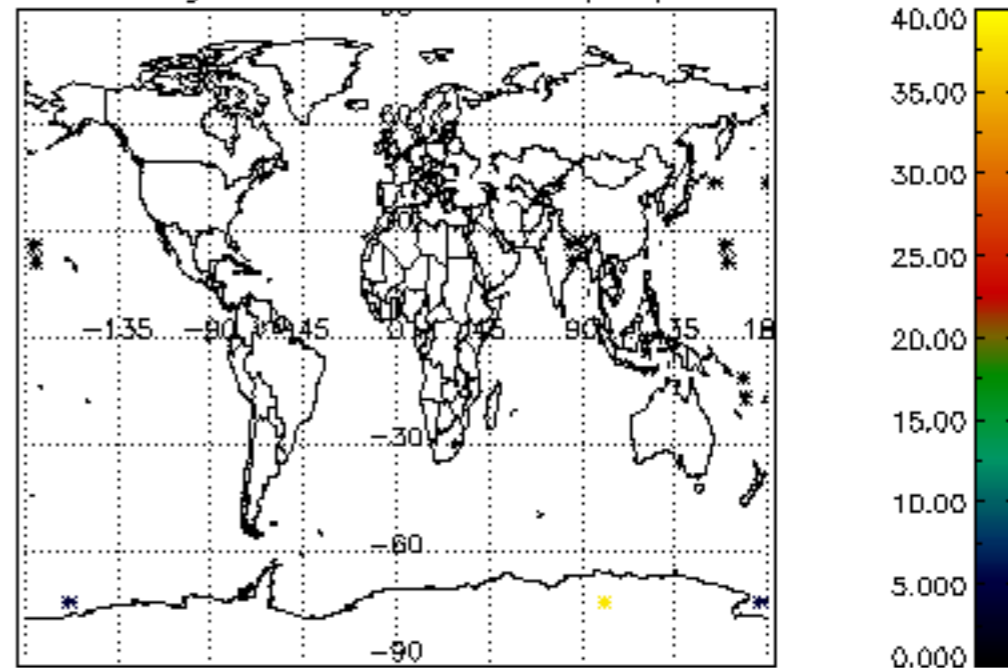
Percentage of datation errors per profile



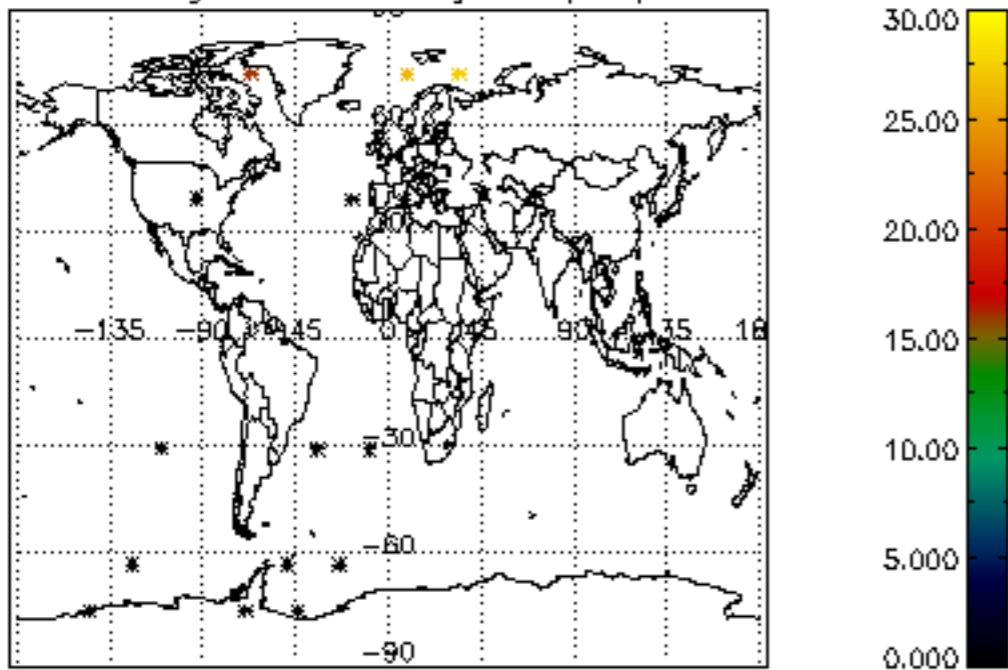
Percentage of star falling outside central band per profile



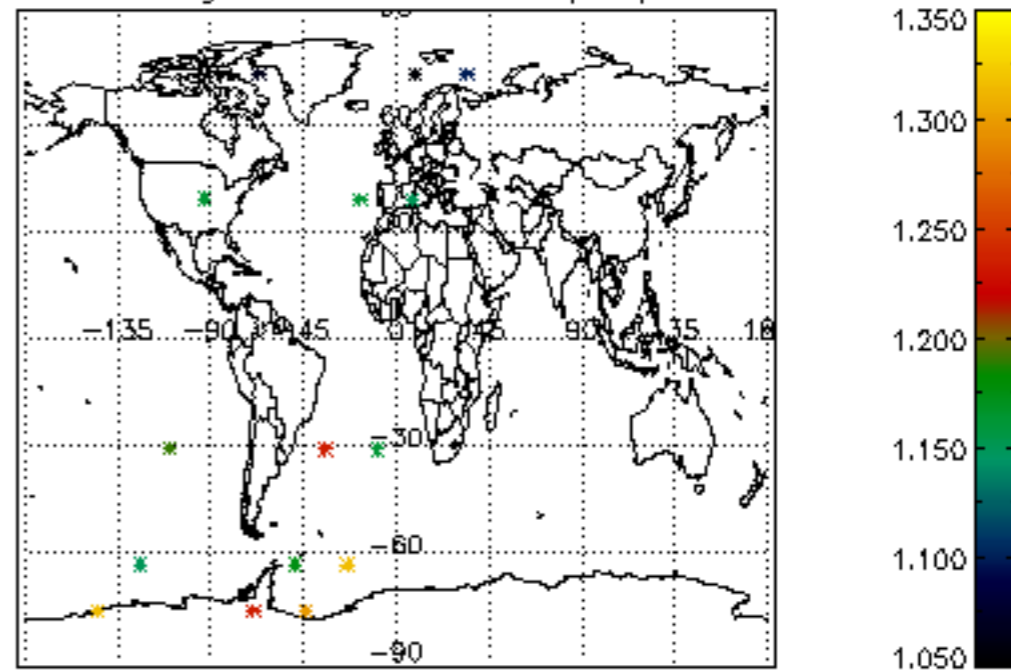
Percentage of saturation errors per profile



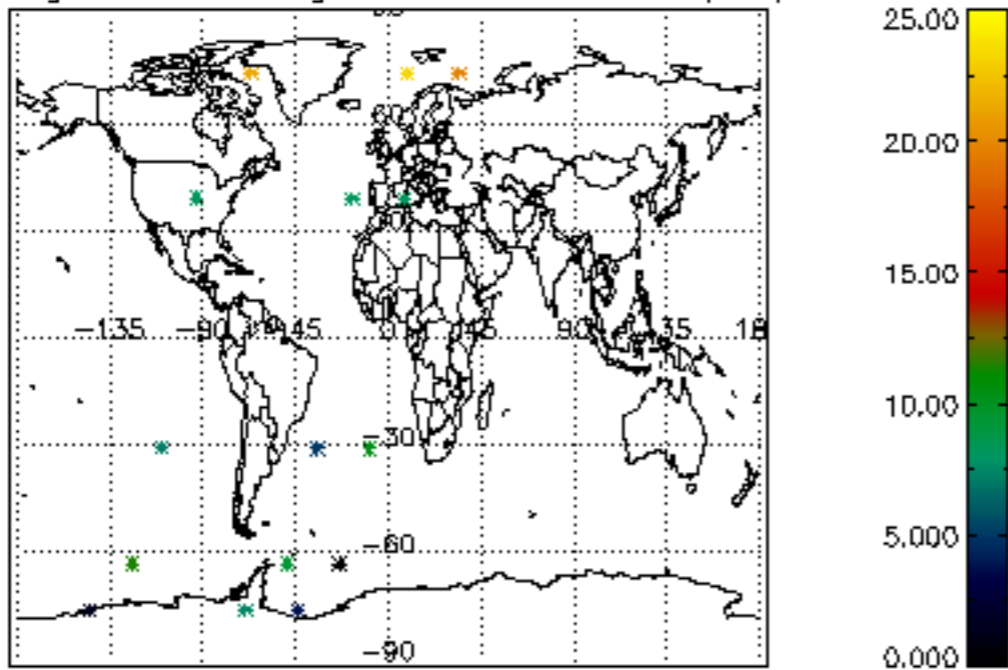
Percentage of cosmic ray hits per profile



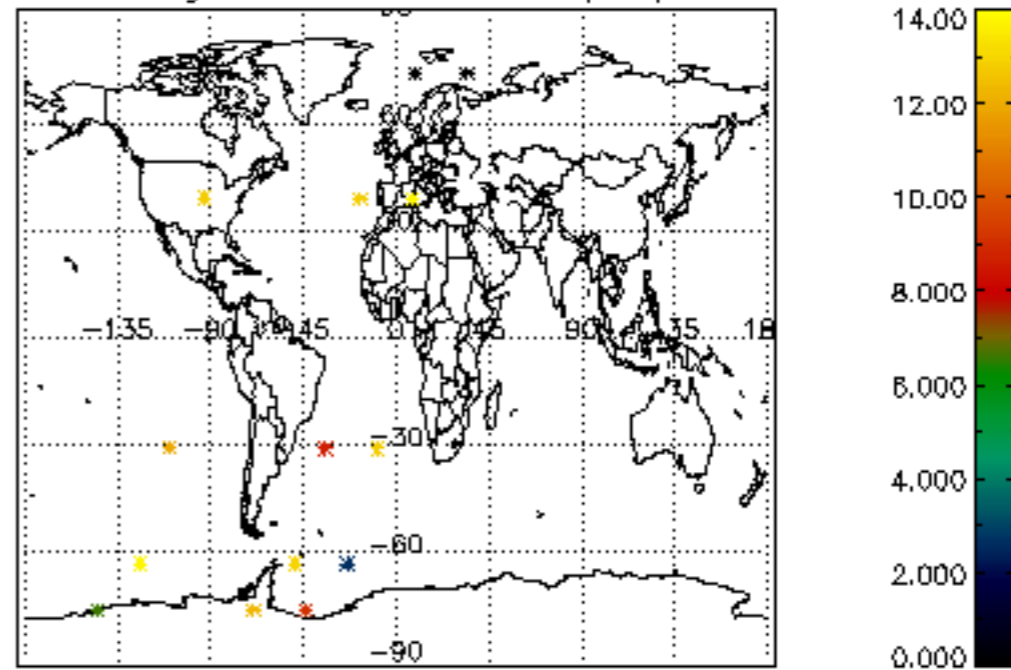
Percentage of datation errors per profile

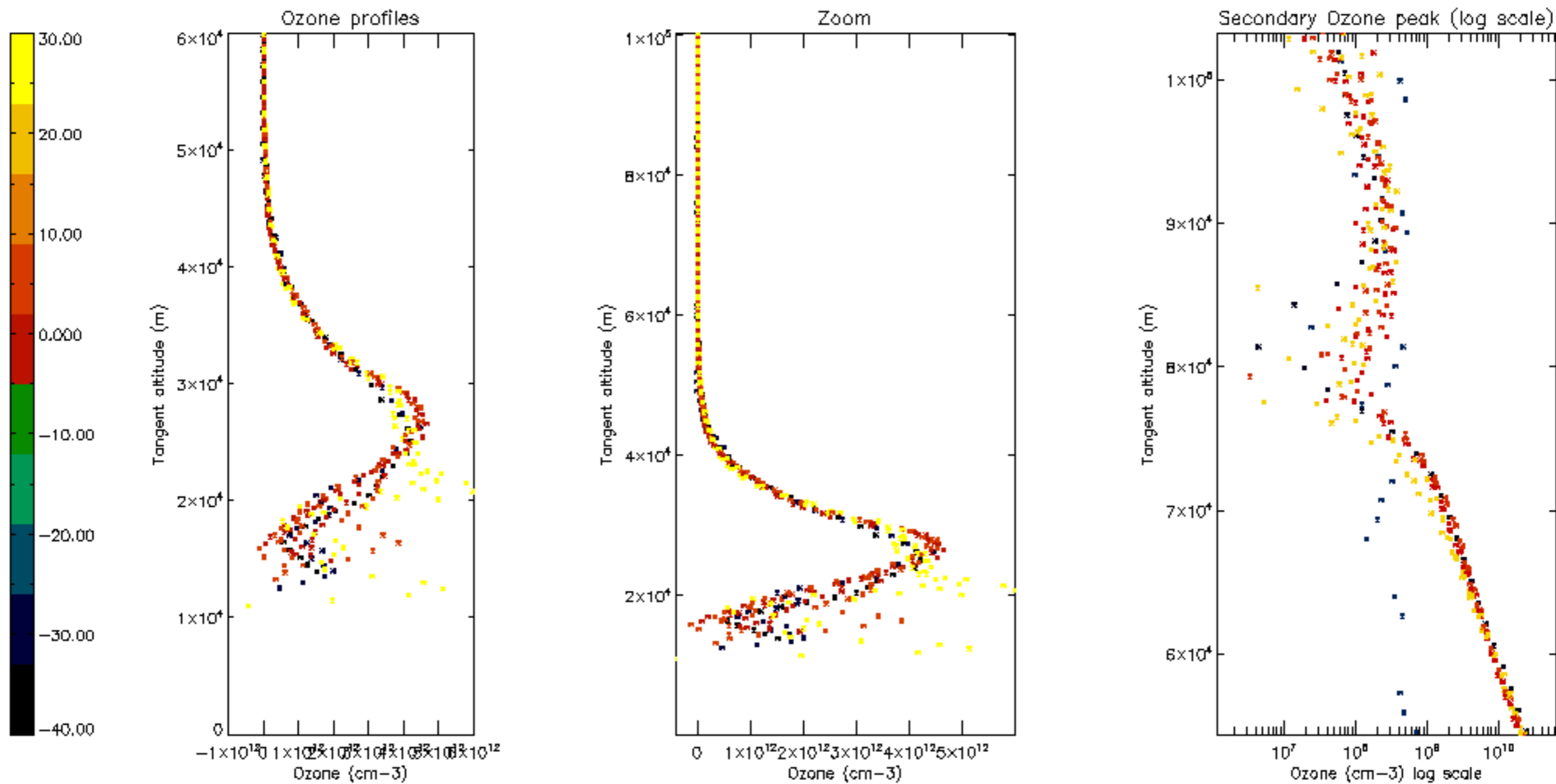


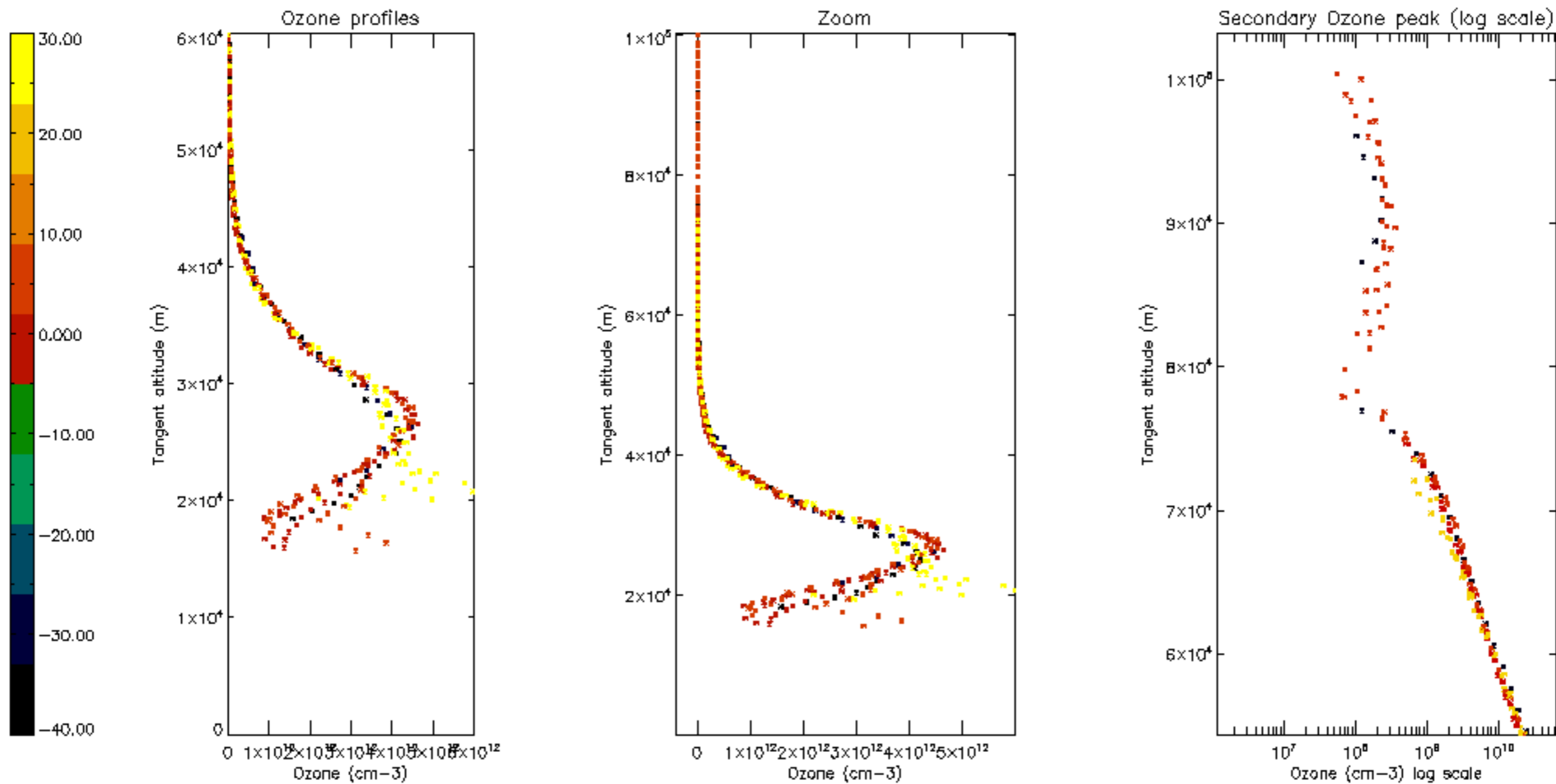
Percentage of star falling outside central band per profile

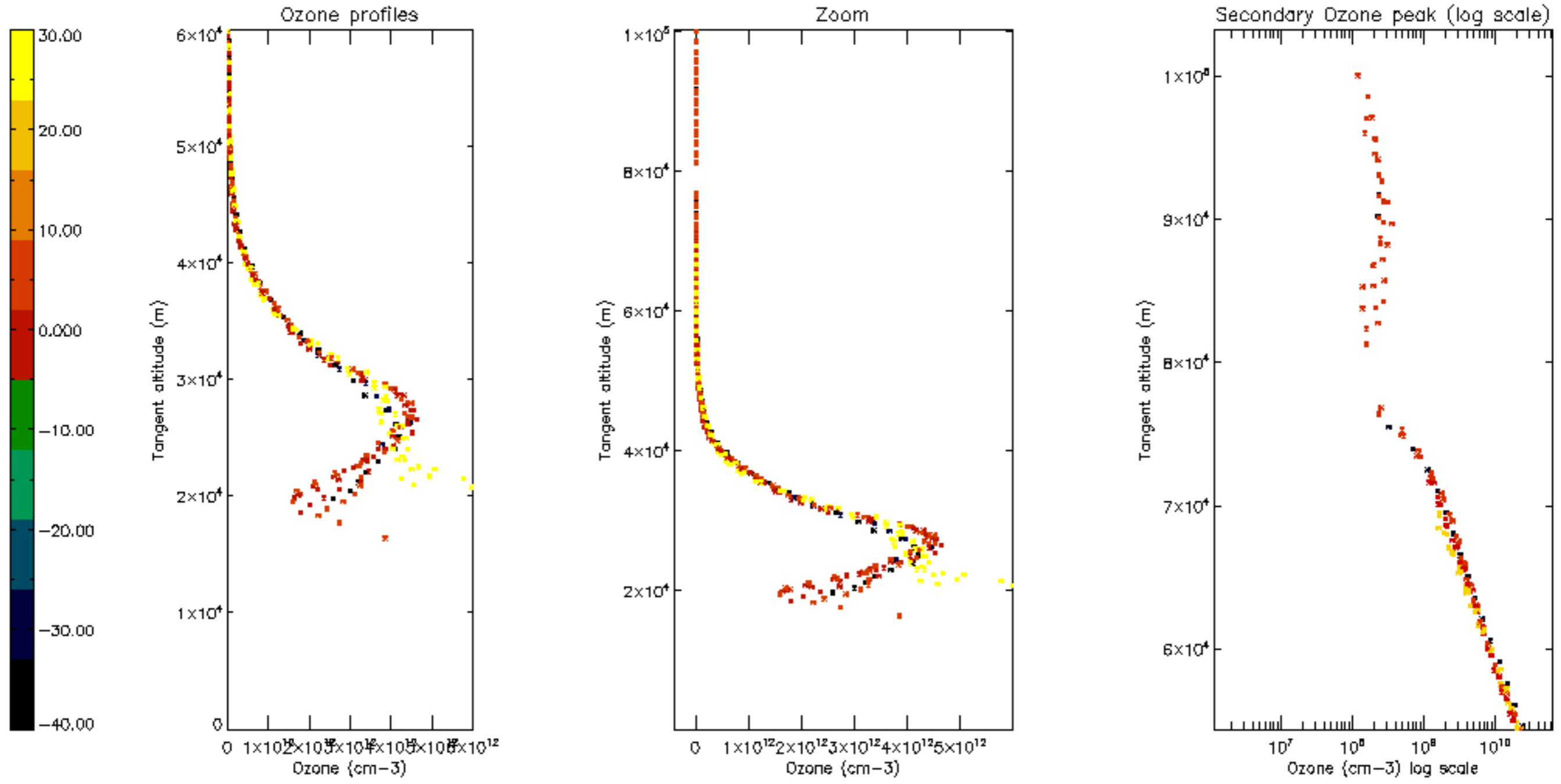


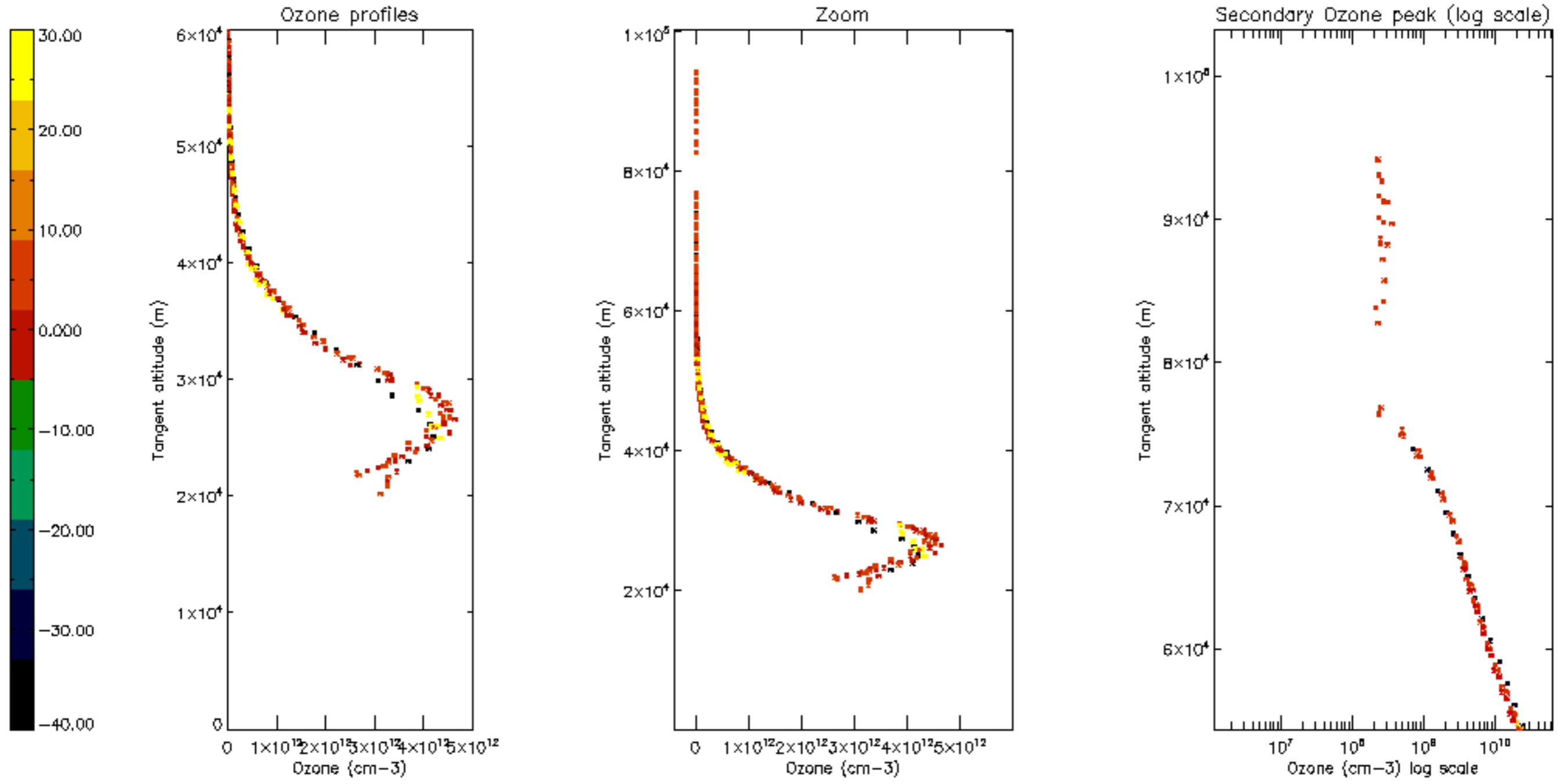
Percentage of saturation errors per profile

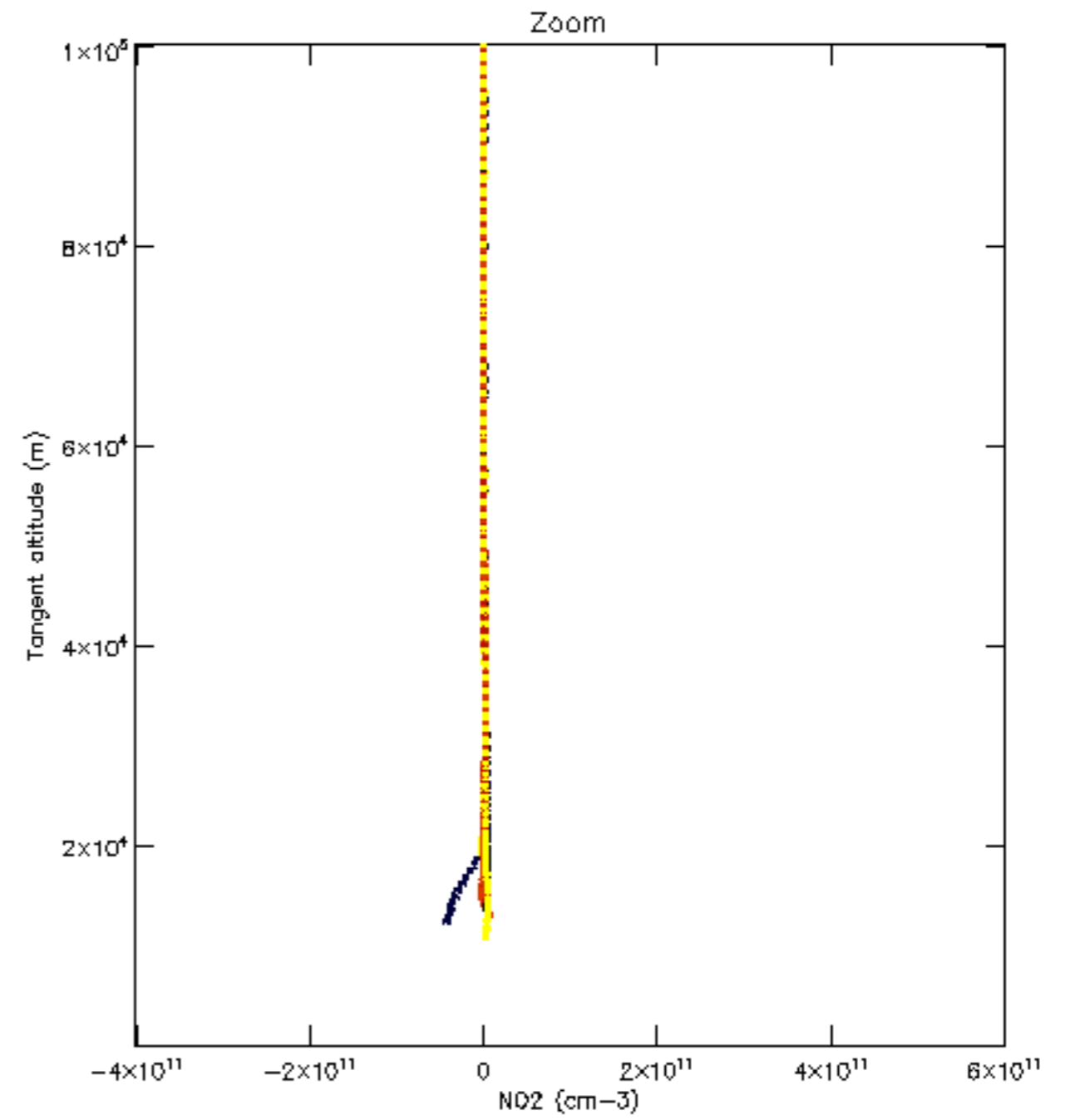
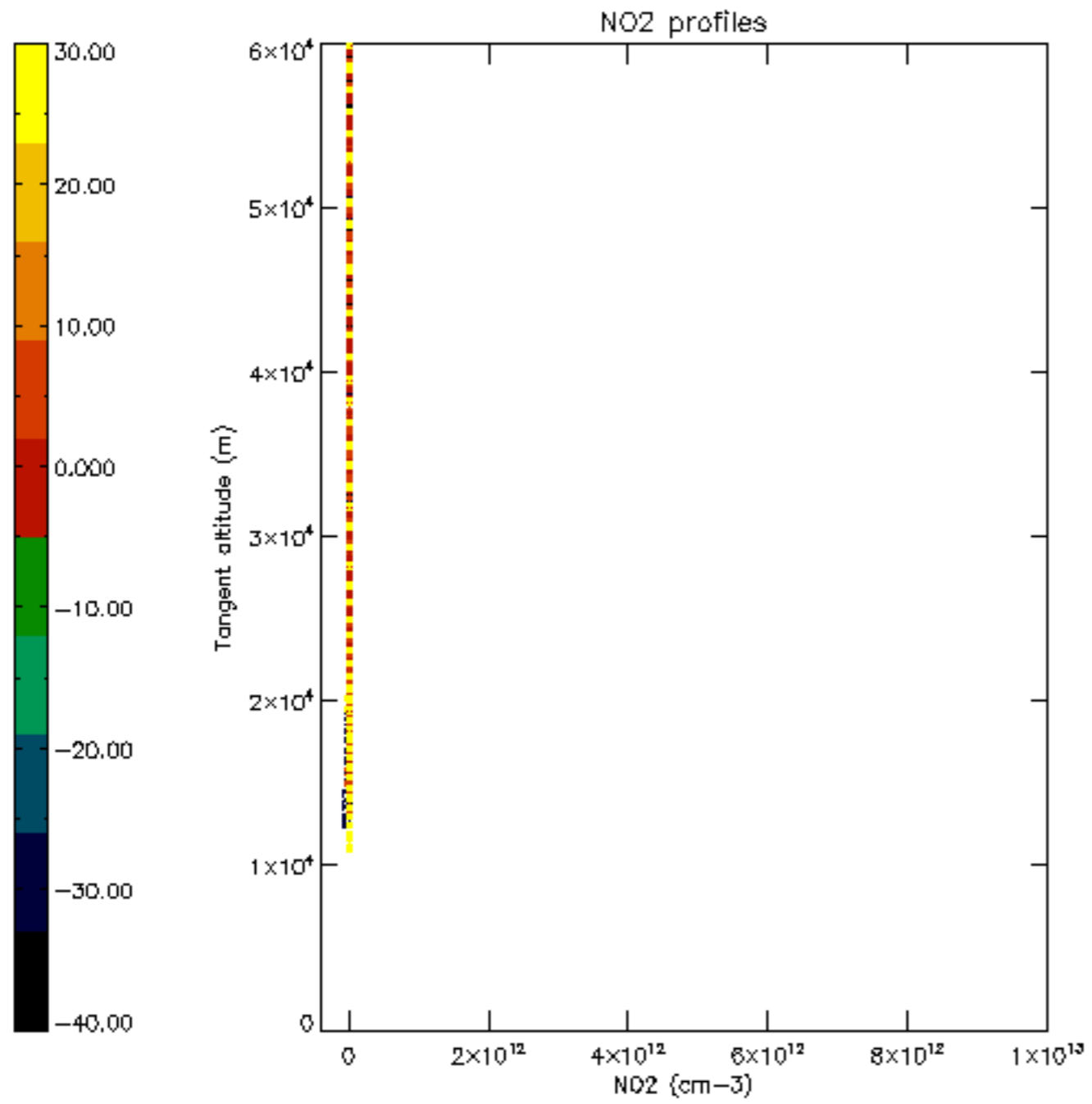


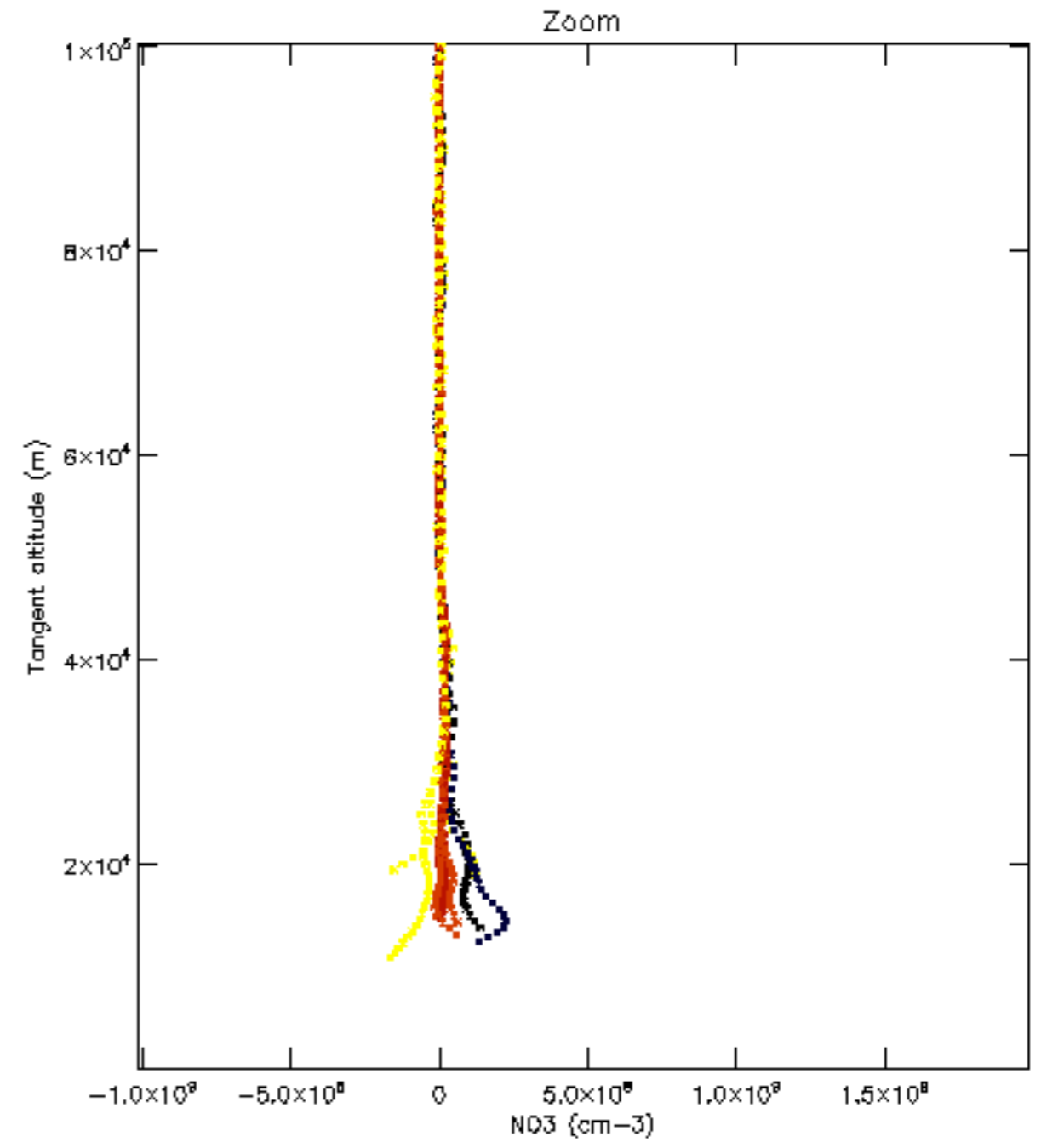
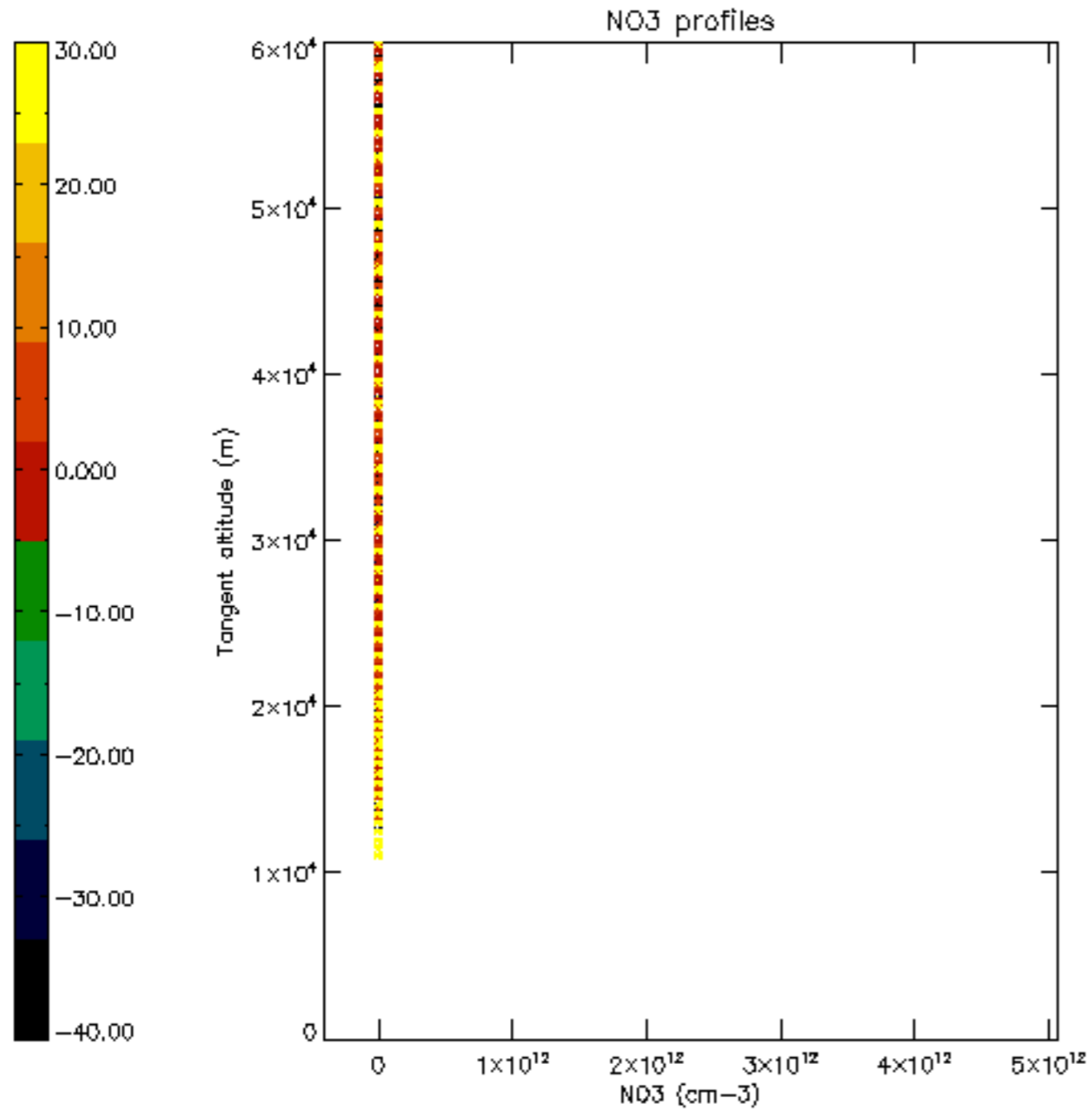


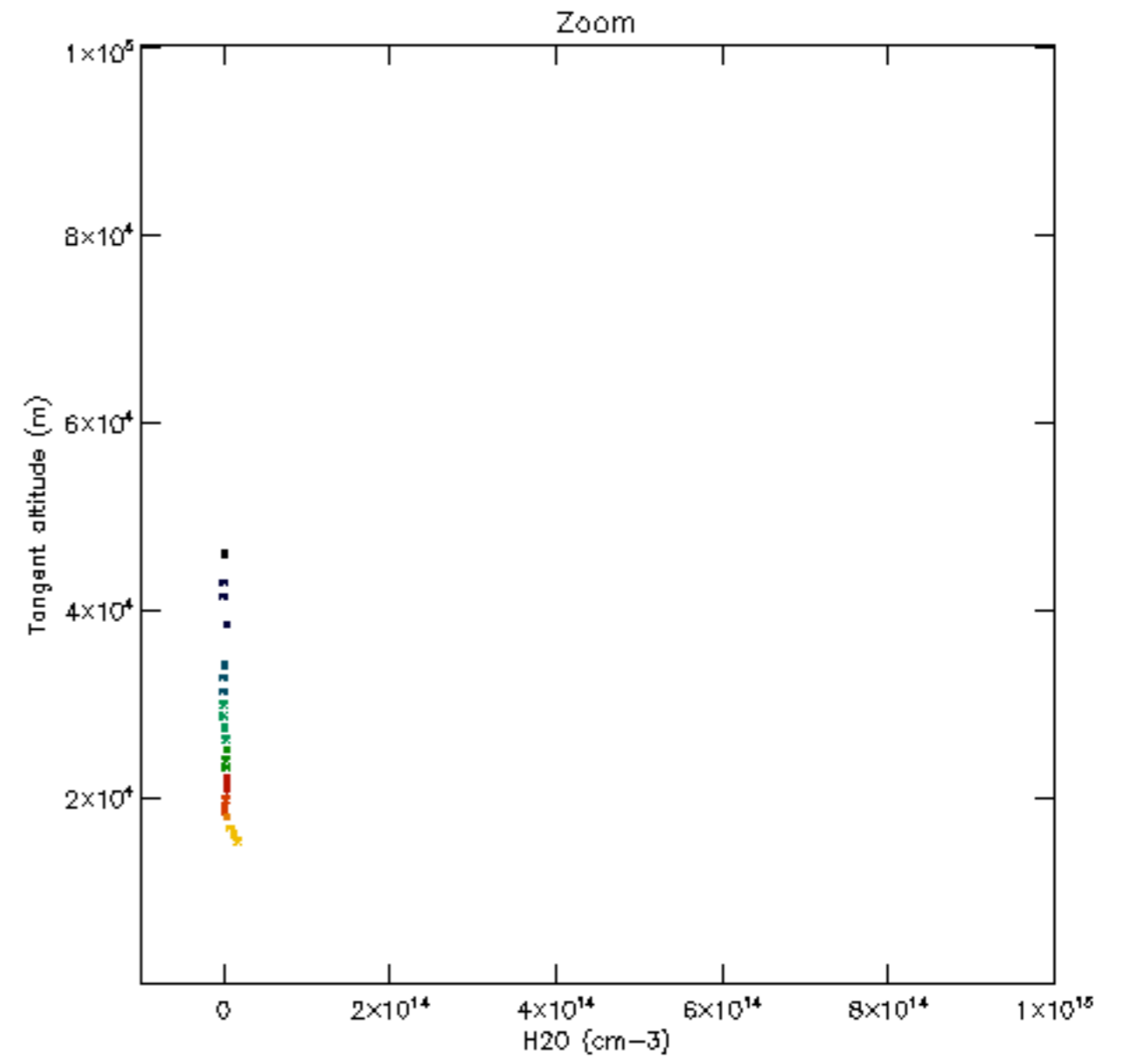
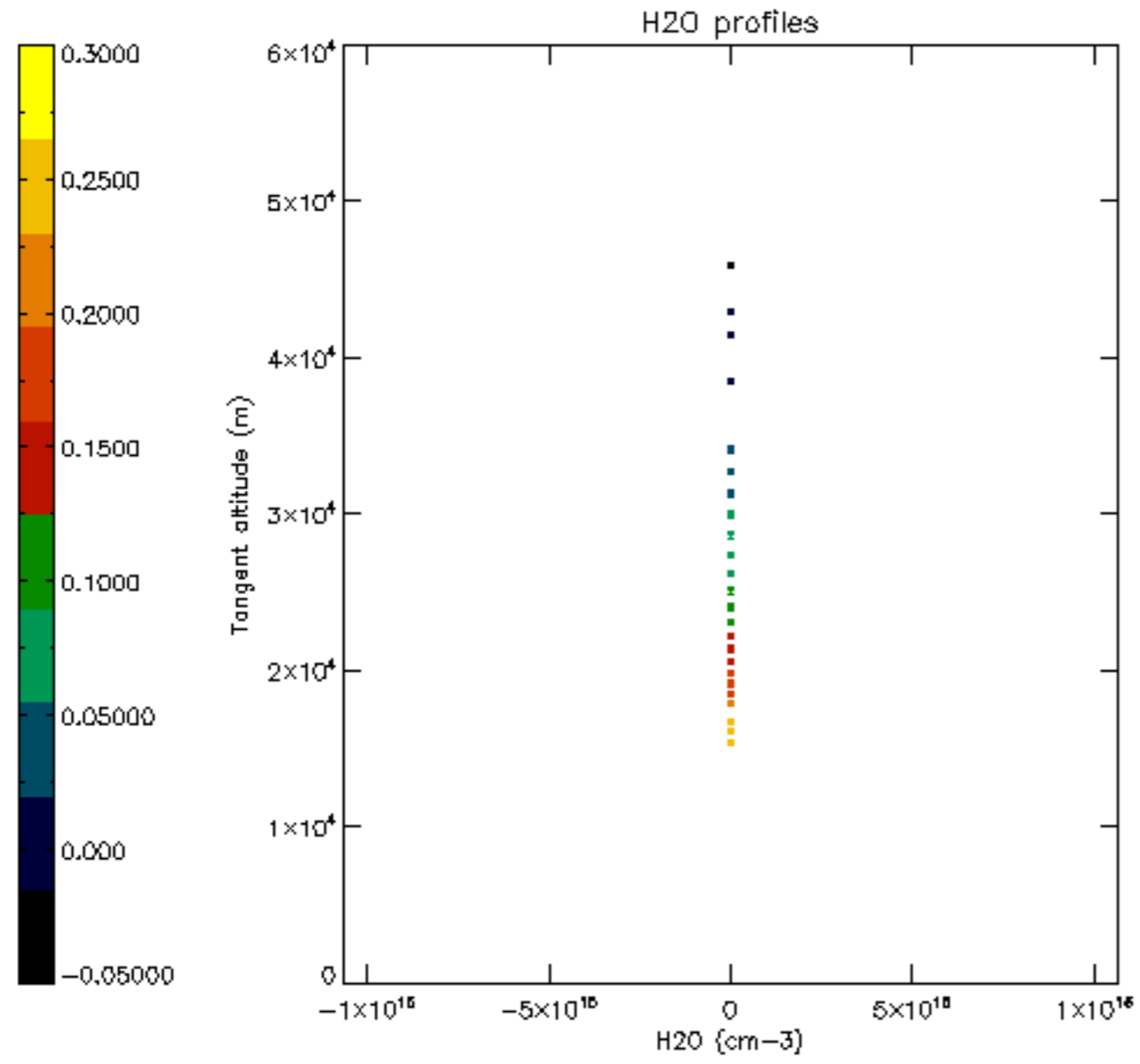


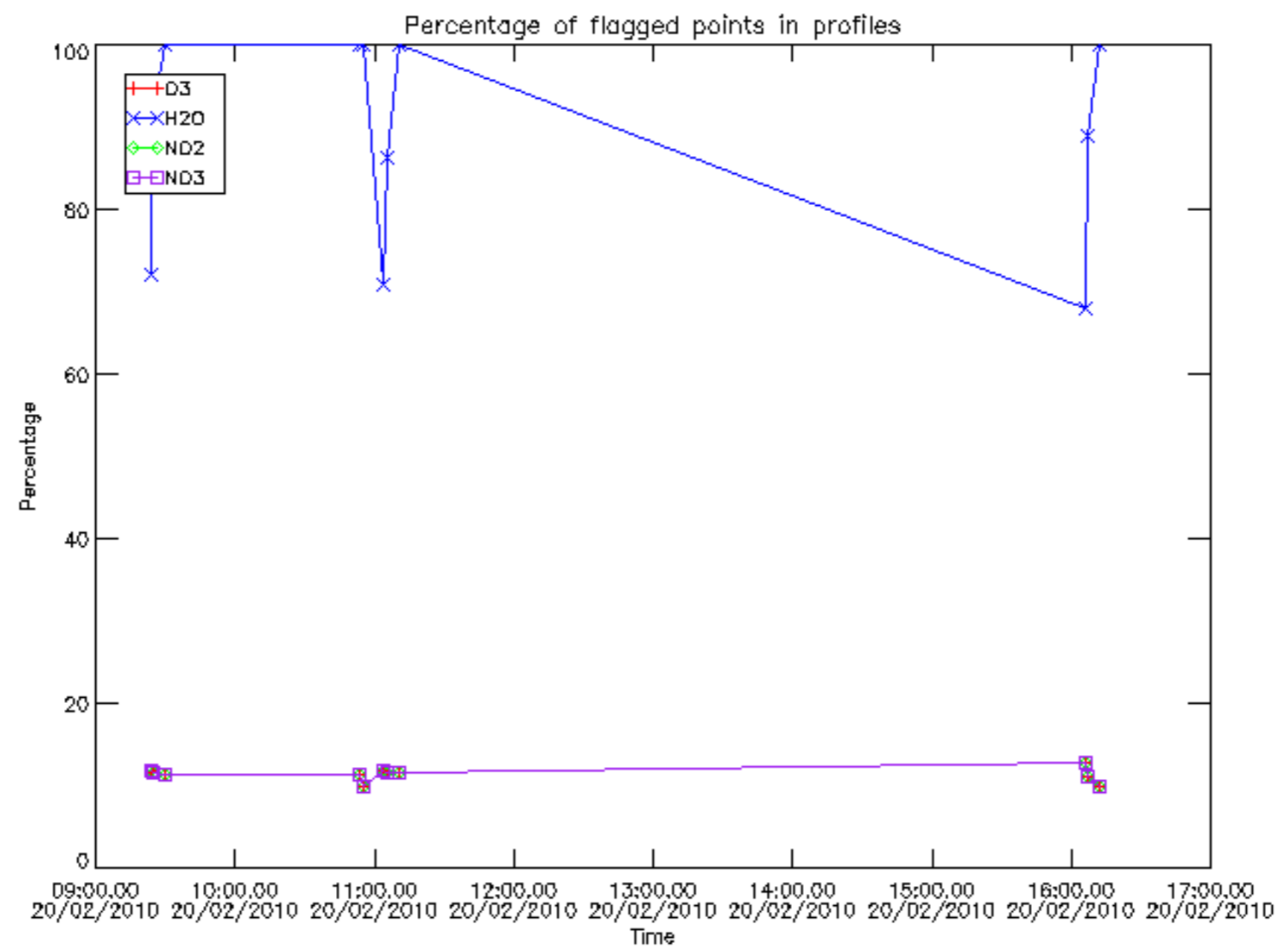




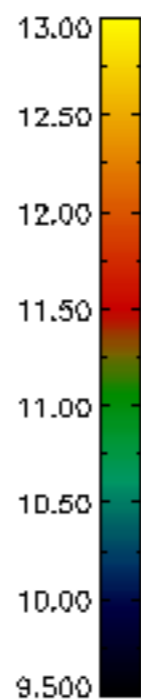
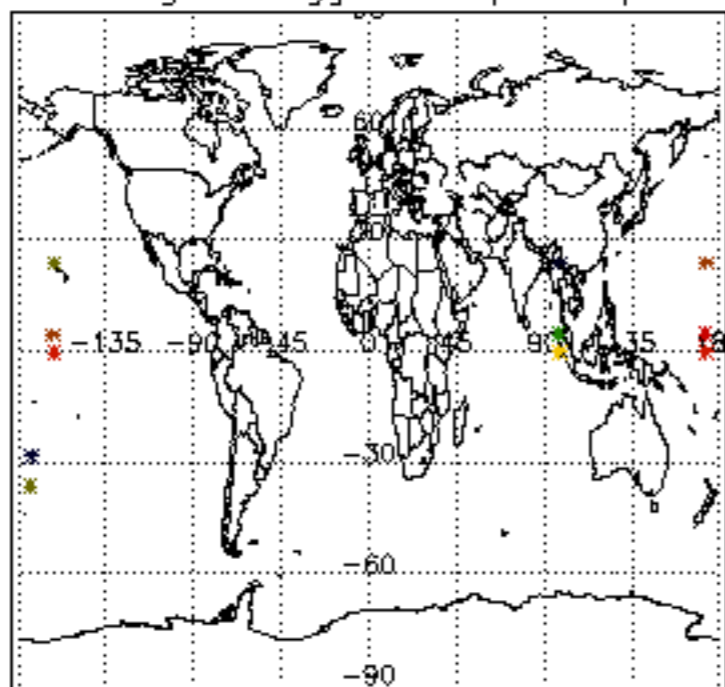




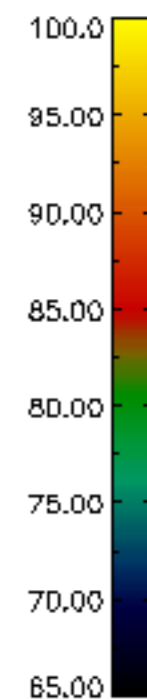
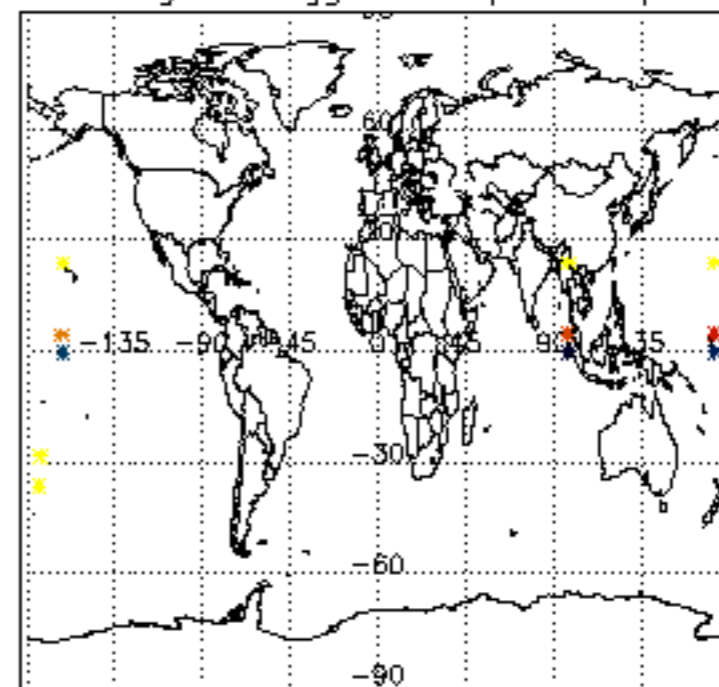




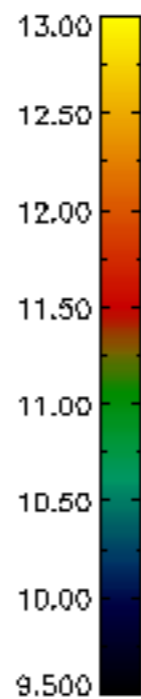
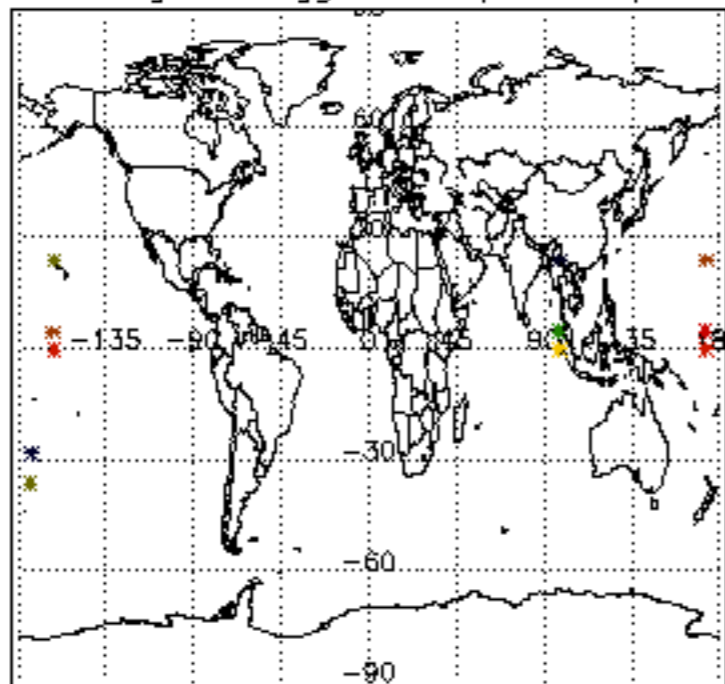
Percentage of flagged data per D3 profile



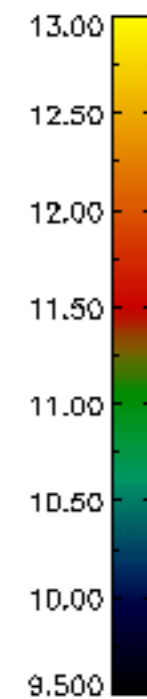
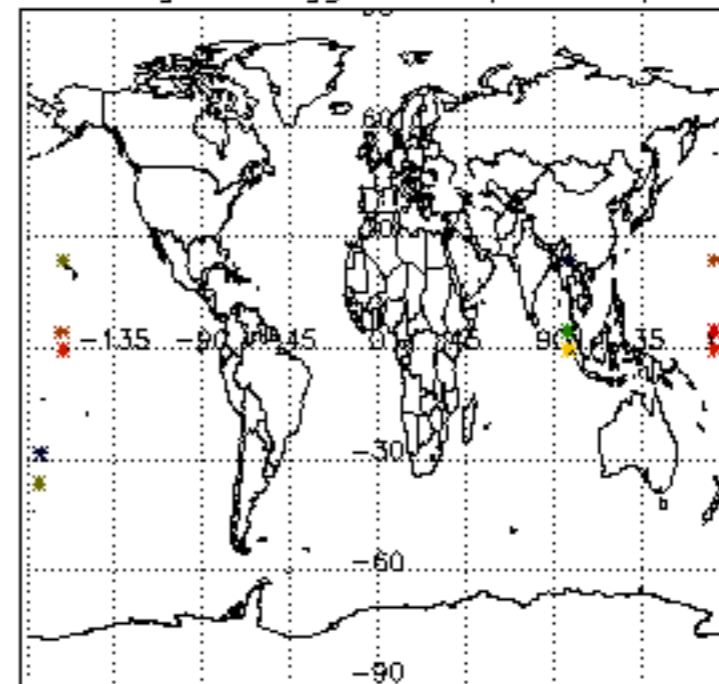
Percentage of flagged data per H2O profile

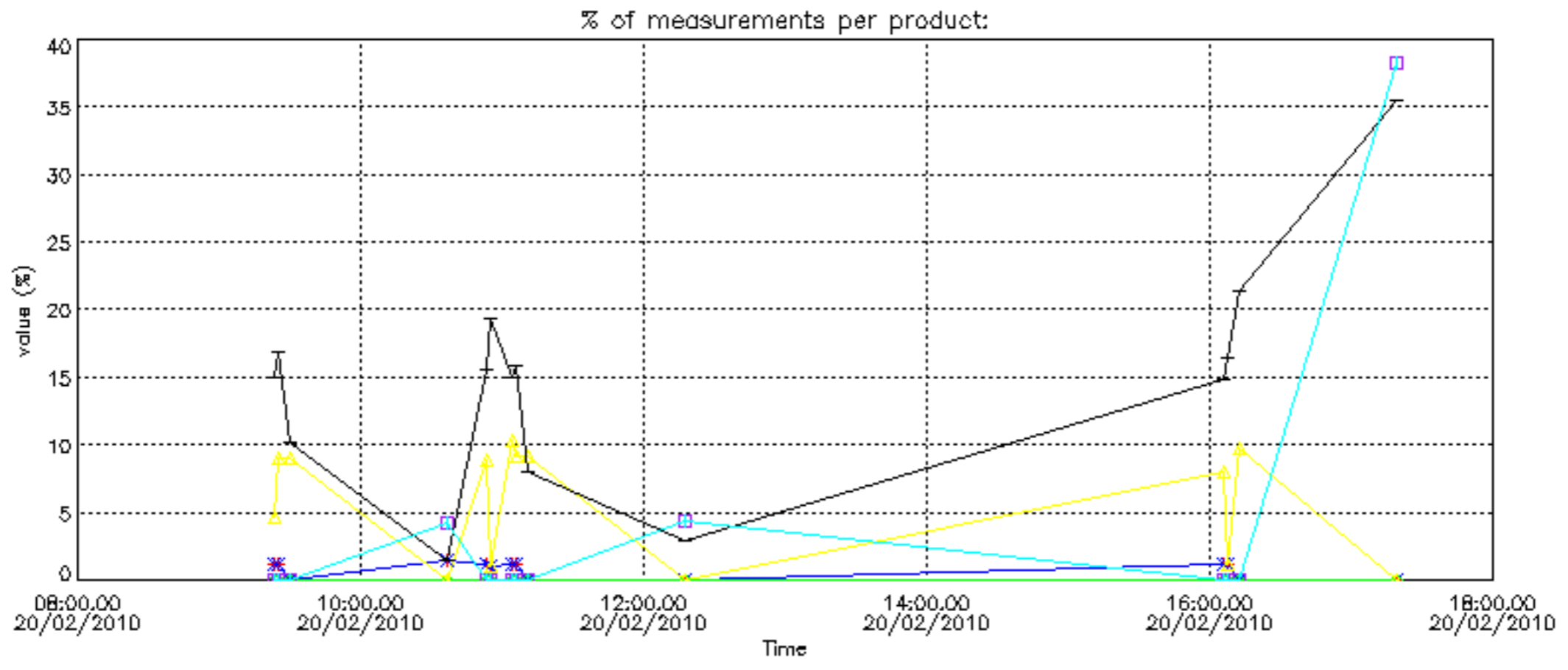


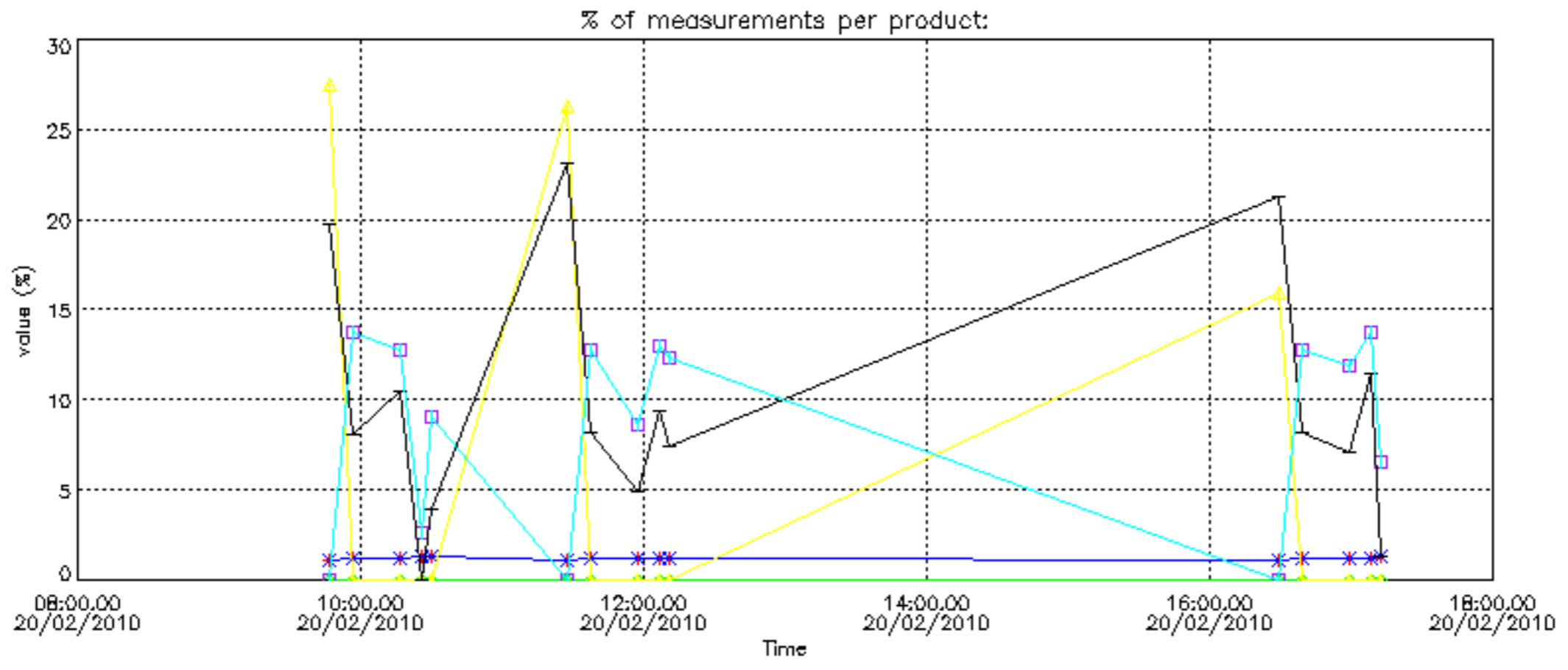
Percentage of flagged data per NO2 profile



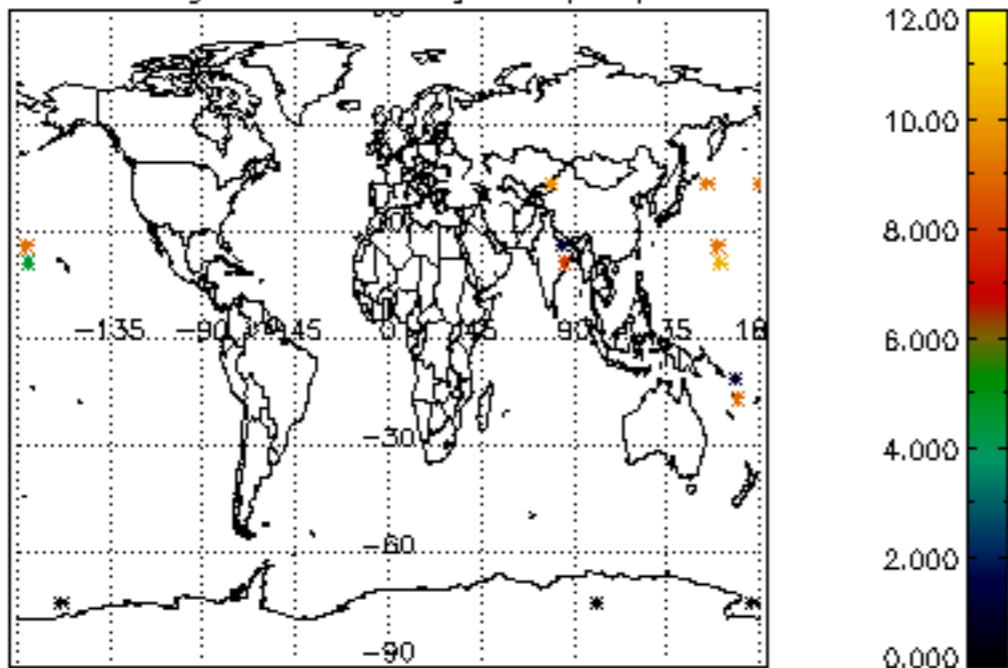
Percentage of flagged data per NO3 profile



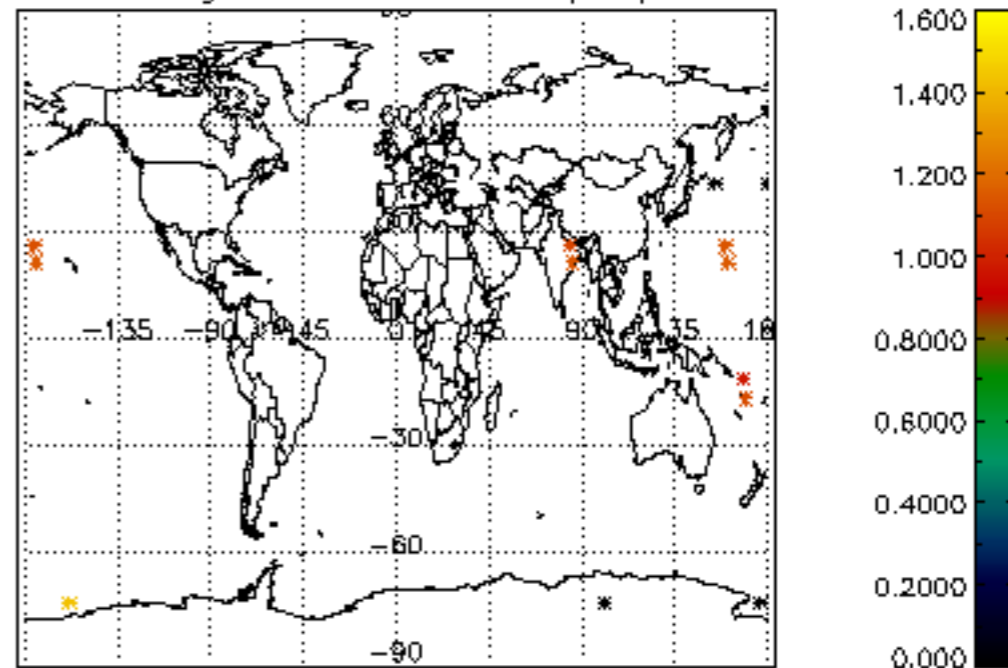




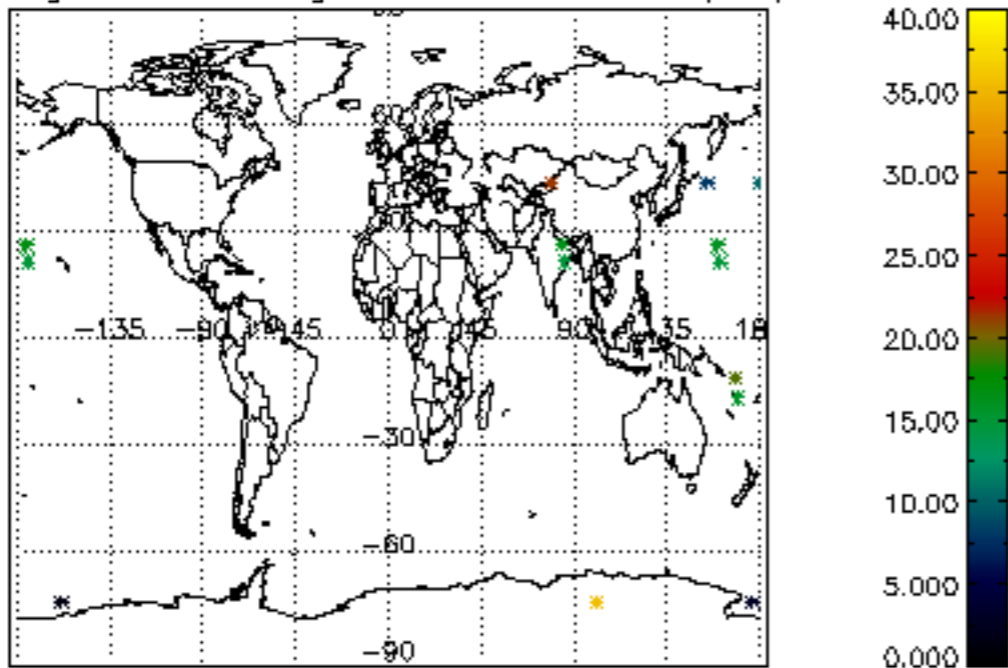
Percentage of cosmic ray hits per profile



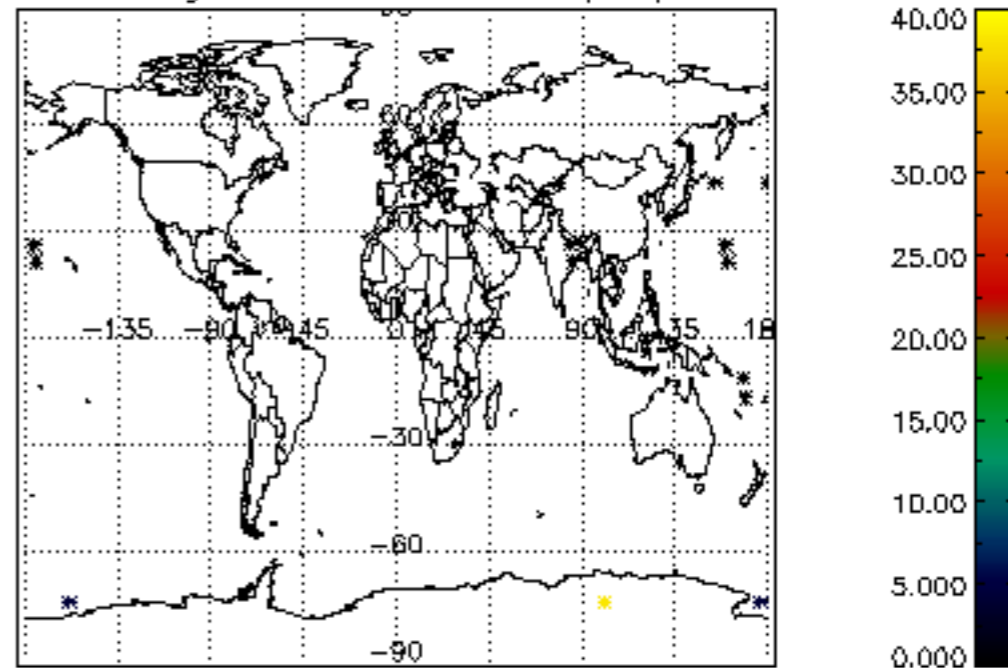
Percentage of datation errors per profile



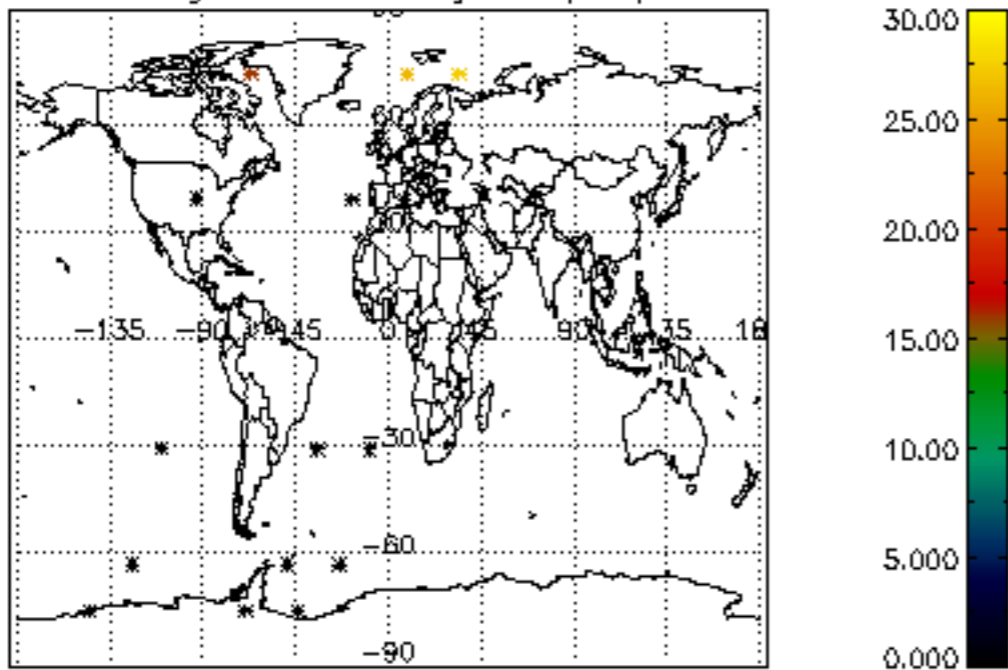
Percentage of star falling outside central band per profile



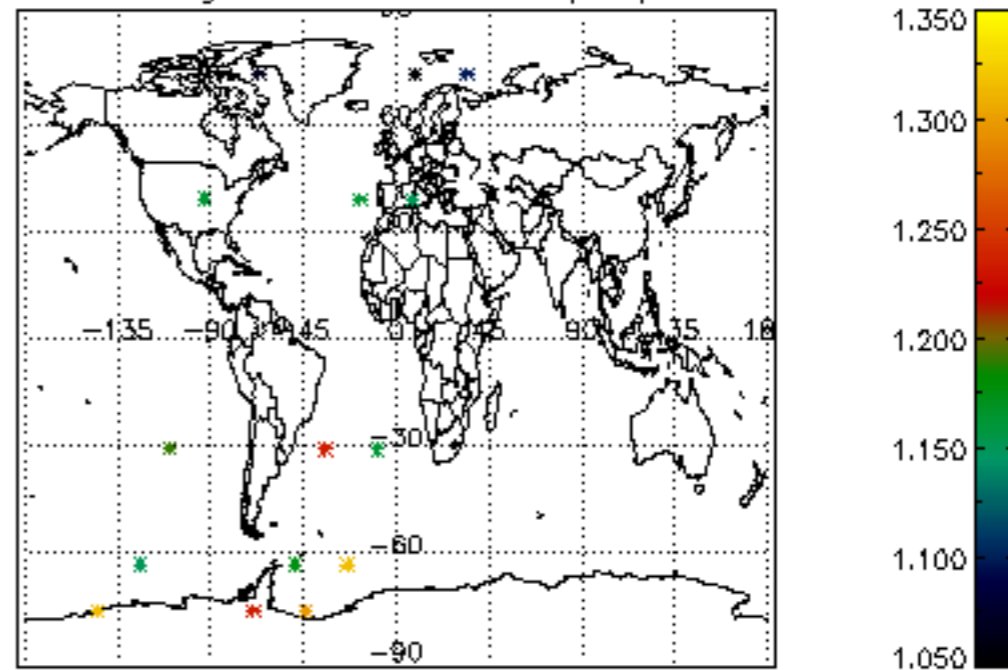
Percentage of saturation errors per profile



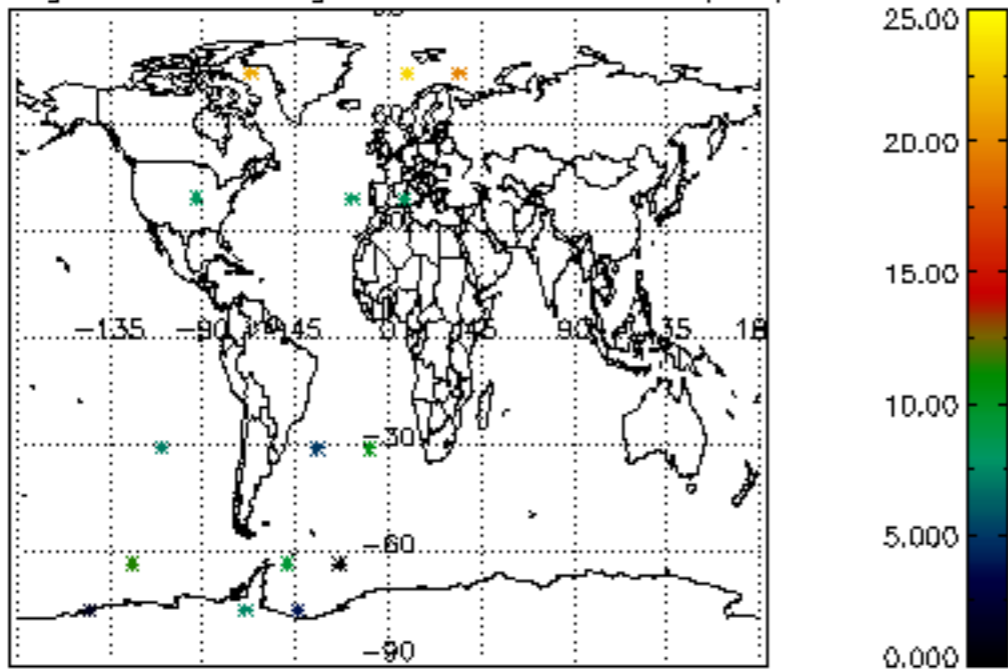
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

