

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	18APR2013 14:10:16
Data source version	GOMOS/6.01
Start time of products	04-03-2012 (04MAR2012 00:00:00)
Stop time of products	05-03-2012 (05MAR2012 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	22
Nb of prods with errors	0

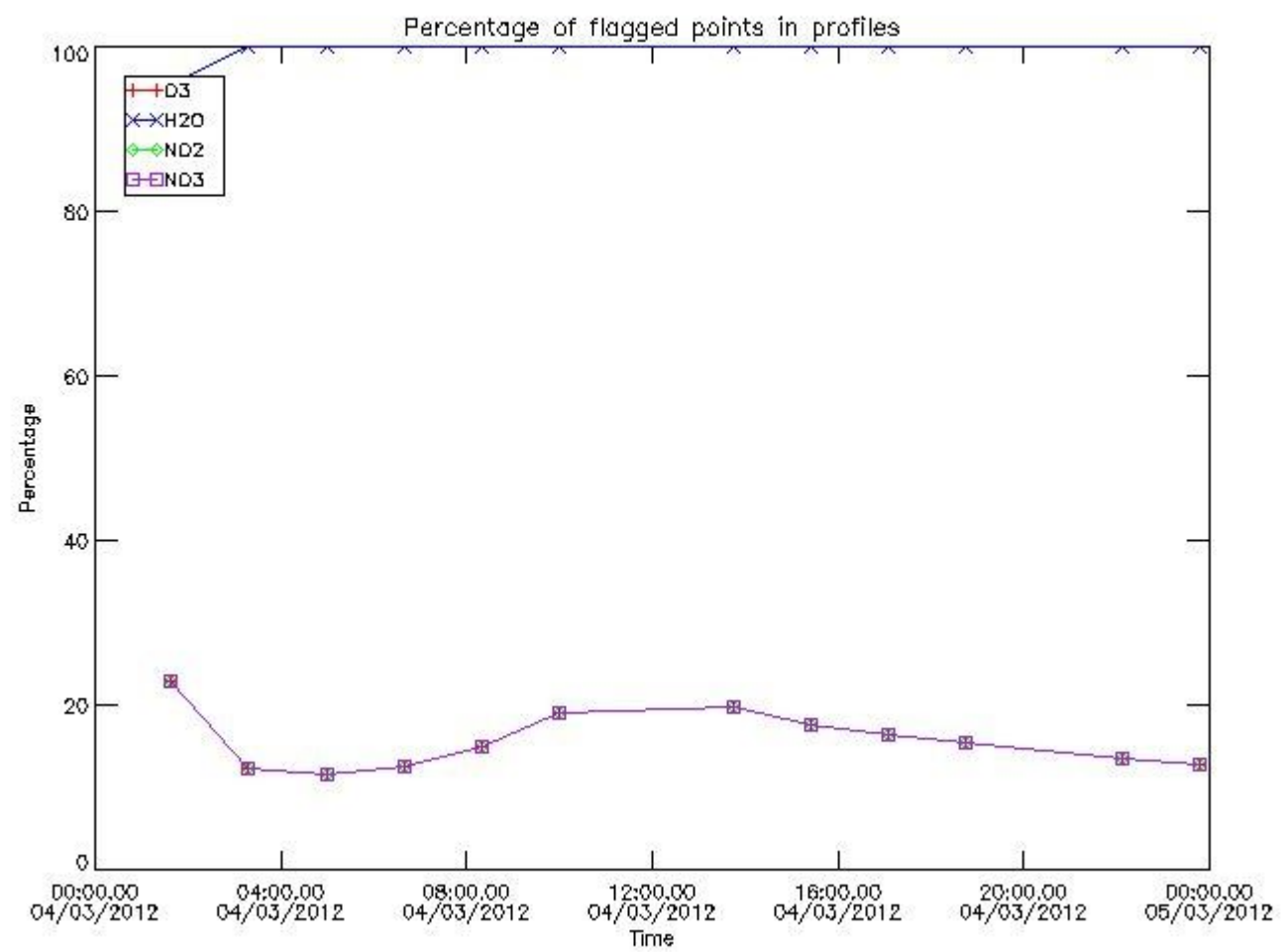
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20120304_004633_000000393112_00189_52358_9937.N1	04-MAR-2012 00:46:33	Bright	38.500	166	17Eps Leo	2.9800	6000.0	77	52358	No
2	GOM_NL__2PRFIN20120304_013808_000000443112_00189_52358_9938.N1	04-MAR-2012 01:38:08	Dark	44.000	155	41Pi Sgr	2.9000	6600.0	88	52358	No
3	GOM_NL__2PRFIN20120304_031822_000000413112_00190_52359_9949.N1	04-MAR-2012 03:18:22	Dark	41.000	155	41Pi Sgr	2.9000	6600.0	82	52359	No
4	GOM_NL__2PRFIN20120304_045837_000000443112_00191_52360_9964.N1	04-MAR-2012 04:58:37	Dark	44.000	155	41Pi Sgr	2.9000	6600.0	88	52360	No
5	GOM_NL__2PRFIN20120304_063852_000000413112_00192_52361_9989.N1	04-MAR-2012 06:38:52	Dark	40.500	155	41Pi Sgr	2.9000	6600.0	81	52361	No
6	GOM_NL__2PRFIN20120304_080916_000000393112_00193_52362_0007.N1	04-MAR-2012 08:09:16	Bright	38.500	118	50Gam Aql	2.7180	4600.0	77	52362	No
7	GOM_NL__2PRFIN20120304_081906_000000343112_00193_52362_0008.N1	04-MAR-2012 08:19:06	Dark	33.500	155	41Pi Sgr	2.9000	6600.0	67	52362	No
8	GOM_NL__2PRFIN20120304_094930_000000403112_00194_52363_0020.N1	04-MAR-2012 09:49:30	Bright	39.500	118	50Gam Aql	2.7180	4600.0	79	52363	No
9	GOM_NL__2PRFIN20120304_095920_000000273112_00194_52363_0021.N1	04-MAR-2012 09:59:20	Dark	26.500	155	41Pi Sgr	2.9000	6600.0	53	52363	No
10	GOM_NL__2PRFIN20120304_112944_000000393112_00195_52364_0046.N1	04-MAR-2012 11:29:44	Bright	39.000	118	50Gam Aql	2.7180	4600.0	78	52364	No
11	GOM_NL__2PRFIN20120304_130959_000000413112_00196_52365_0073.N1	04-MAR-2012 13:09:59	Bright	40.500	118	50Gam Aql	2.7180	4600.0	81	52365	No
12	GOM_NL__2PRFIN20120304_134449_000000263112_00197_52366_0140.N1	04-MAR-2012 13:44:49	Dark	25.500	99	Del Cen	2.5750	26000.	51	52366	No
13	GOM_NL__2PRFIN20120304_145013_000000413112_00197_52366_0141.N1	04-MAR-2012 14:50:13	Bright	40.500	118	50Gam Aql	2.7180	4600.0	81	52366	No
14	GOM_NL__2PRFIN20120304_152503_000000293112_00198_52367_0156.N1	04-MAR-2012 15:25:03	Dark	28.500	99	Del Cen	2.5750	26000.	57	52367	No
15	GOM_NL__2PRFIN20120304_163027_000000413112_00198_52367_0157.N1	04-MAR-2012 16:30:27	Bright	40.500	118	50Gam Aql	2.7180	4600.0	81	52367	No
16	GOM_NL__2PRFIN20120304_170518_000000313112_00199_52368_0375.N1	04-MAR-2012 17:05:18	Dark	30.500	99	Del Cen	2.5750	26000.	61	52368	No
17	GOM_NL__2PRFIN20120304_181042_000000403112_00199_52368_0376.N1	04-MAR-2012 18:10:42	Bright	40.000	118	50Gam Aql	2.7180	4600.0	80	52368	No
18	GOM_NL__2PRFIN20120304_184532_000000333112_00200_52369_0356.N1	04-MAR-2012 18:45:32	Dark	32.500	99	Del Cen	2.5750	26000.	65	52369	No
19	GOM_NL__2PRFIN20120304_213110_000000393112_00201_52370_0322.N1	04-MAR-2012 21:31:10	Bright	39.000	118	50Gam Aql	2.7180	4600.0	78	52370	No
20	GOM_NL__2PRFIN20120304_220601_000000383112_00202_52371_0276.N1	04-MAR-2012 22:06:01	Dark	38.000	99	Del Cen	2.5750	26000.	76	52371	No
21	GOM_NL__2PRFIN20120304_231124_000000423112_00202_52371_0277.N1	04-MAR-2012 23:11:24	Bright	41.500	118	50Gam Aql	2.7180	4600.0	83	52371	No
22	GOM_NL__2PRFIN20120304_234615_000000403112_00203_52372_0328.N1	04-MAR-2012 23:46:15	Dark	40.000	99	Del Cen	2.5750	26000.	80	52372	No

3. Quality information per product

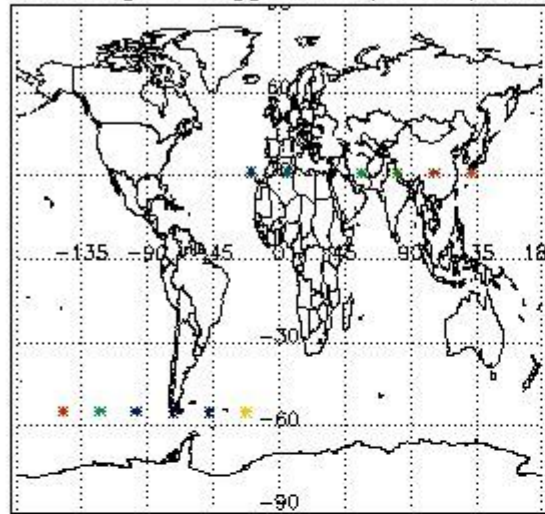
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

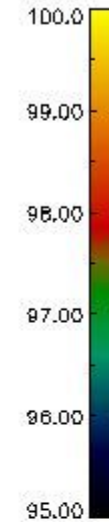
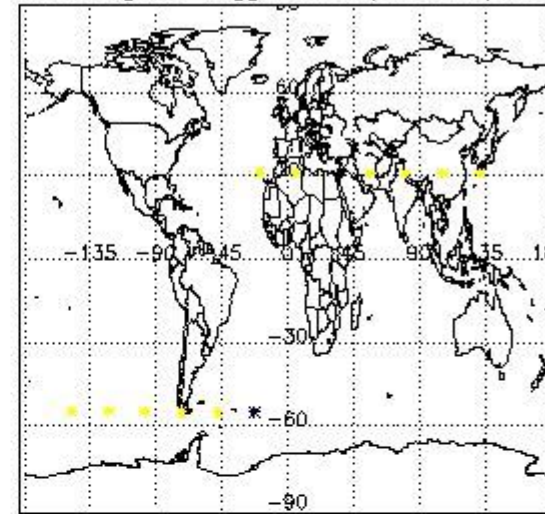


3.2 Plot quality information per product (world map)

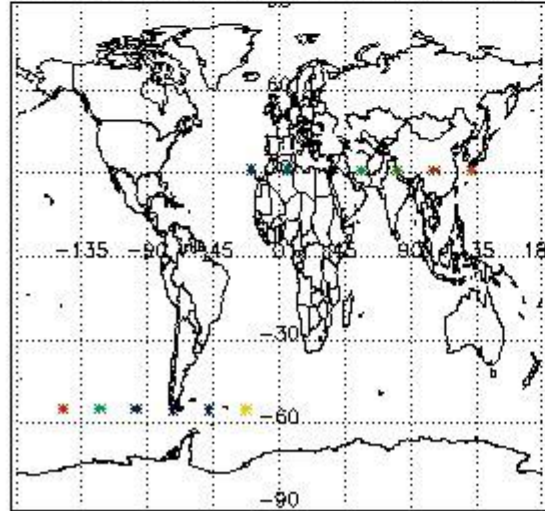
Percentage of flagged data per O3 profile



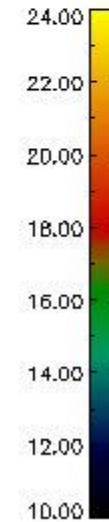
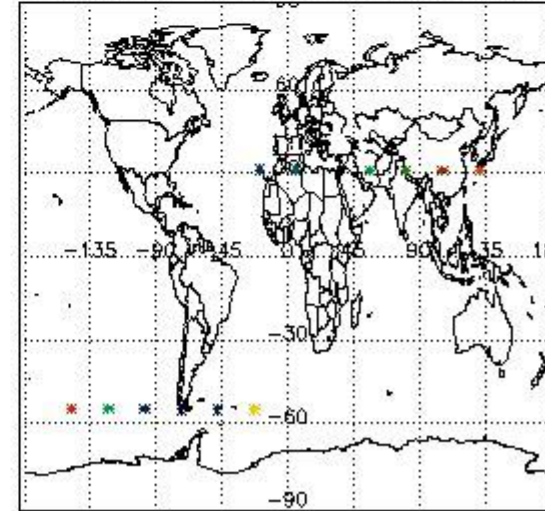
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

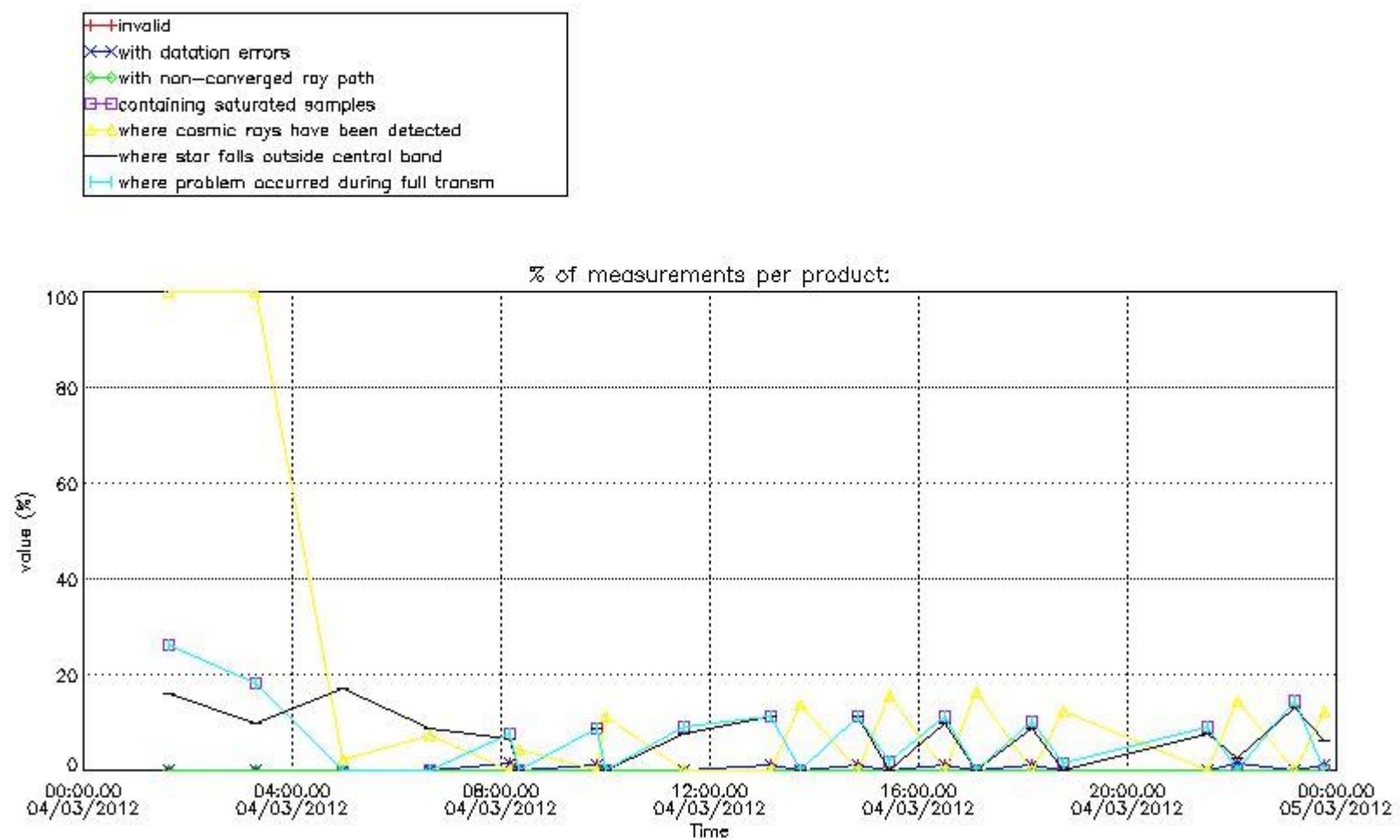


4. Level 1 quality information per product

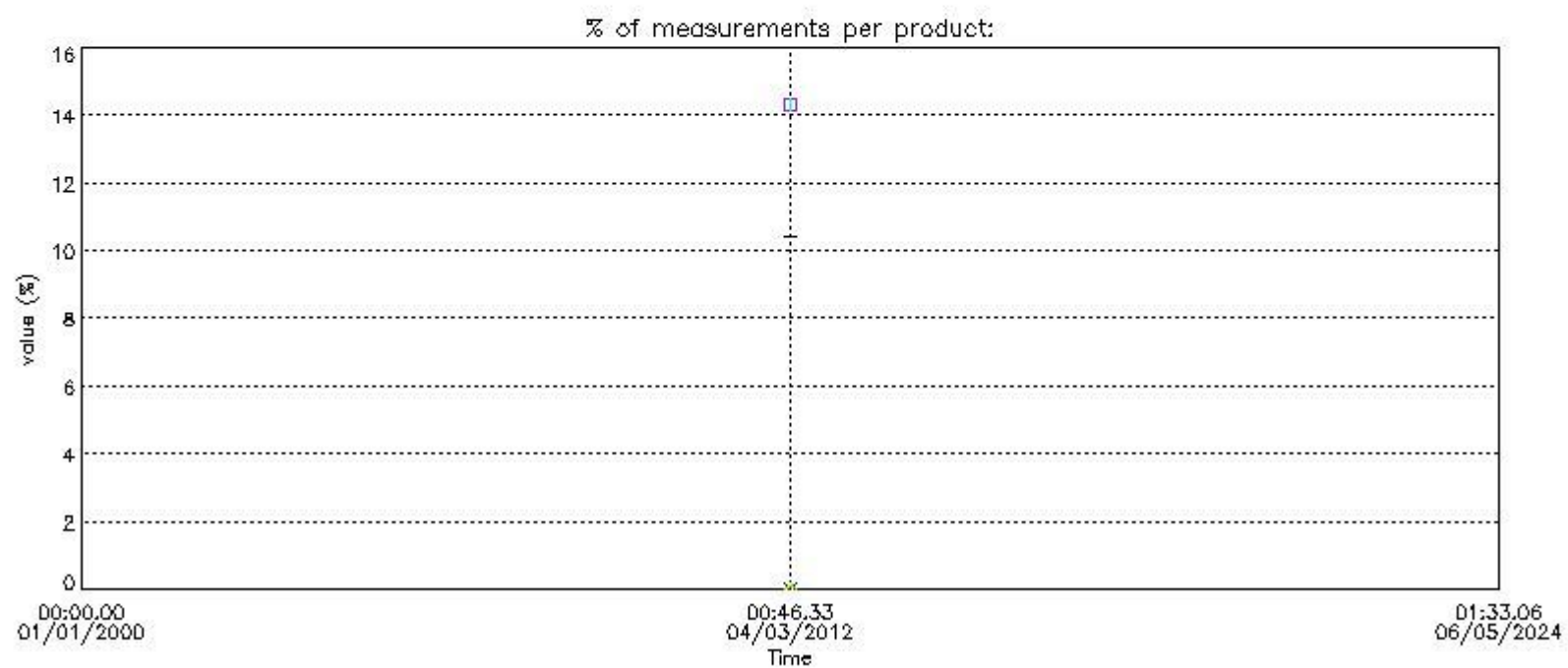
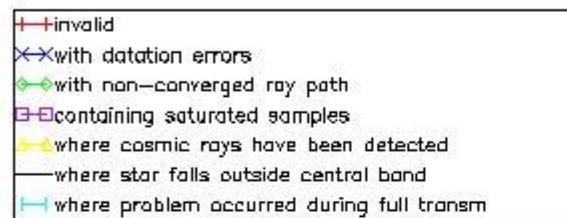
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



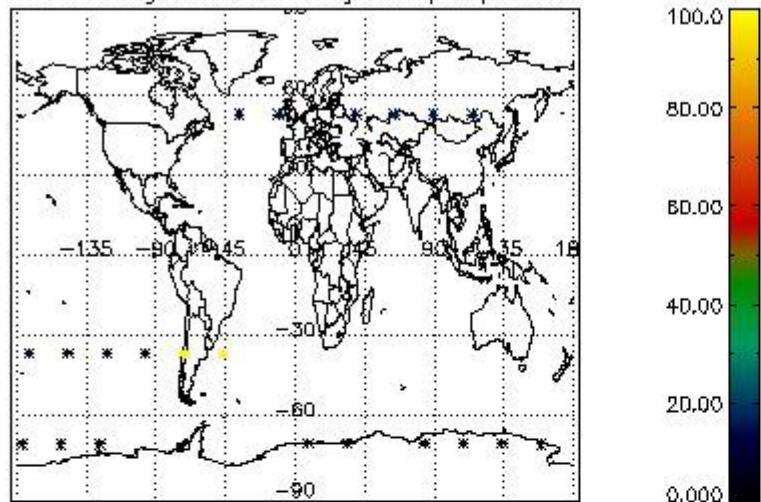
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



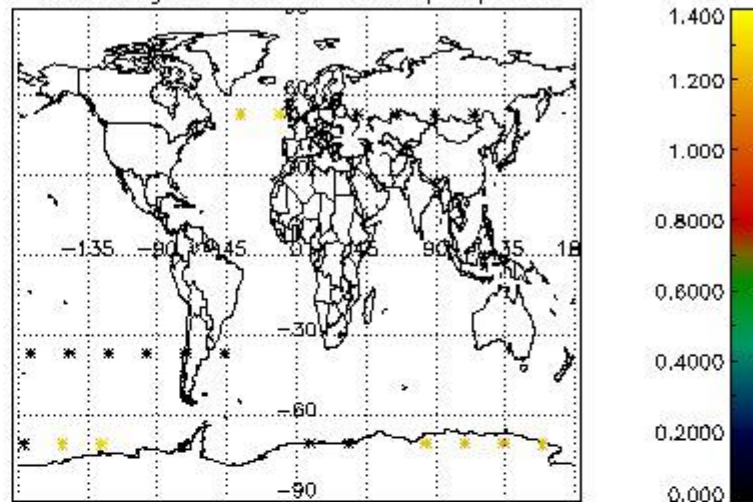
4.2 Plot quality information per product coming from level 1b processing (world map)

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

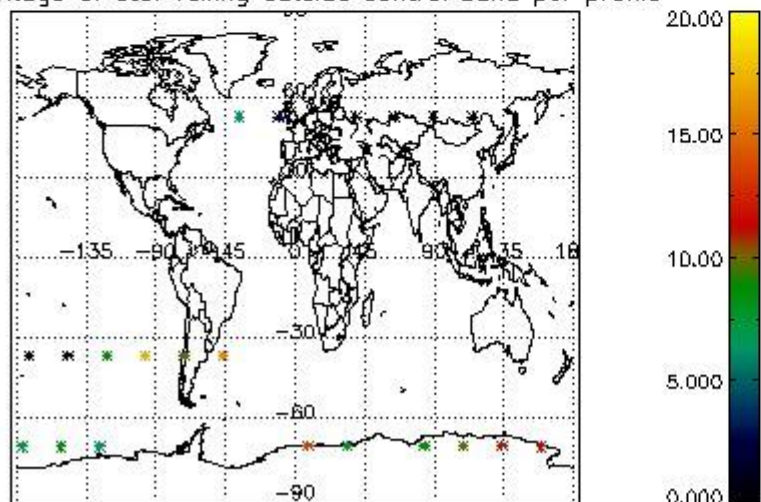
Percentage of cosmic ray hits per profile



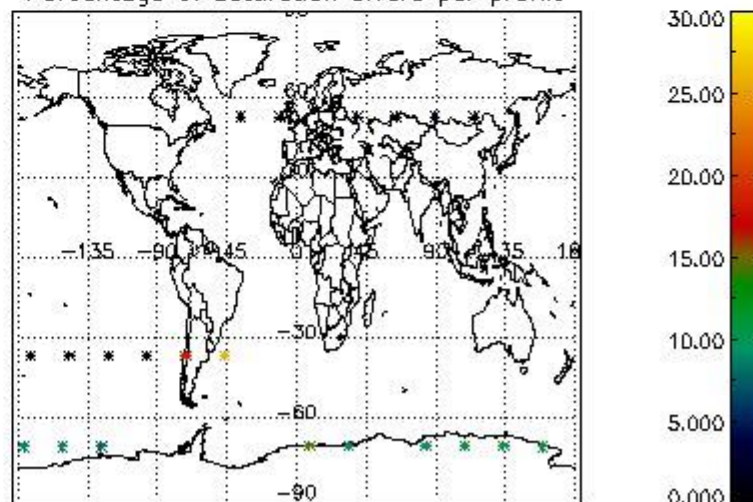
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

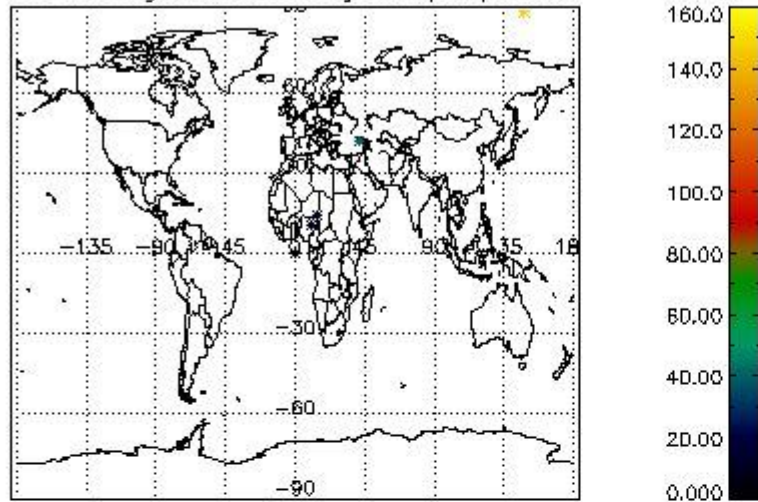


Percentage of saturation errors per profile

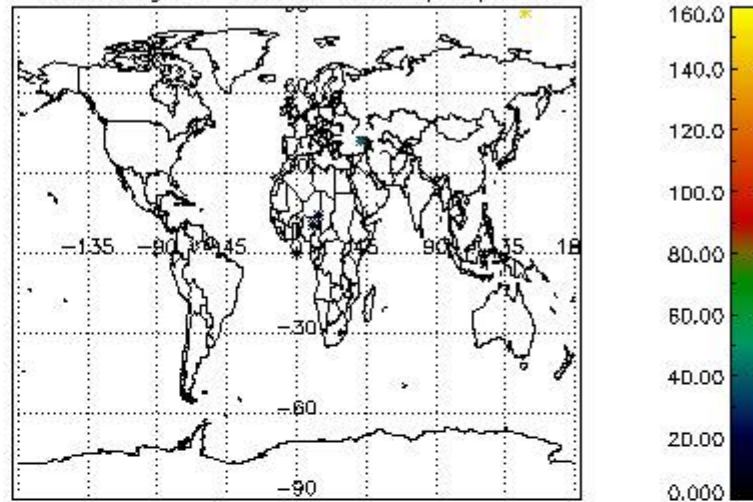


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

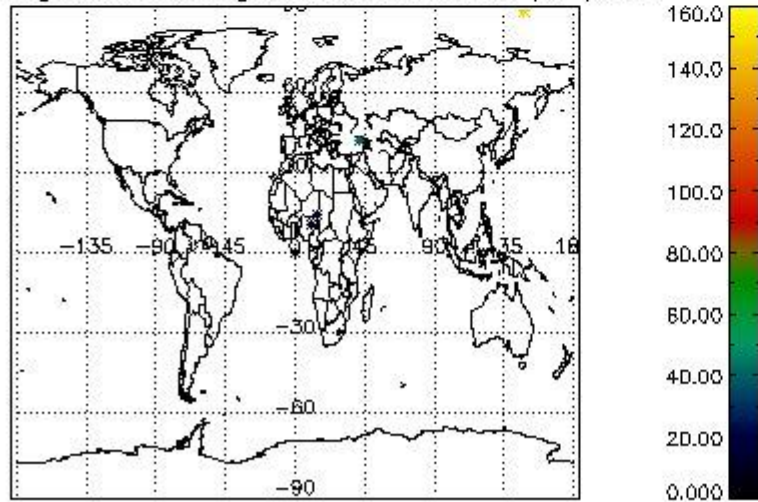
Percentage of cosmic ray hits per profile



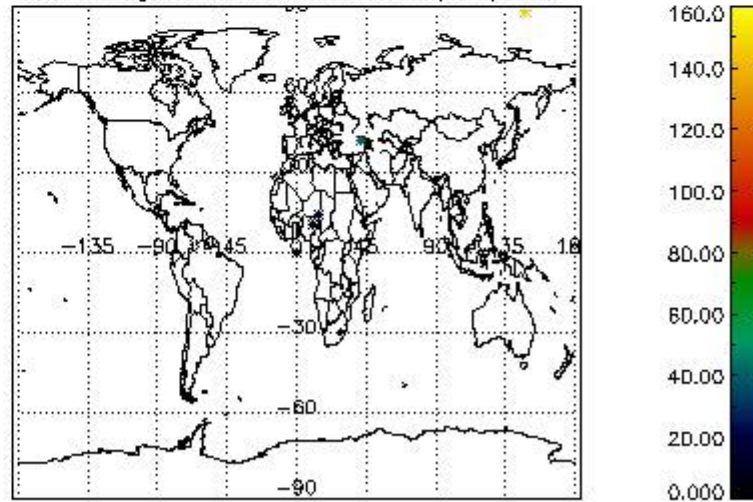
Percentage of datation errors per profile



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

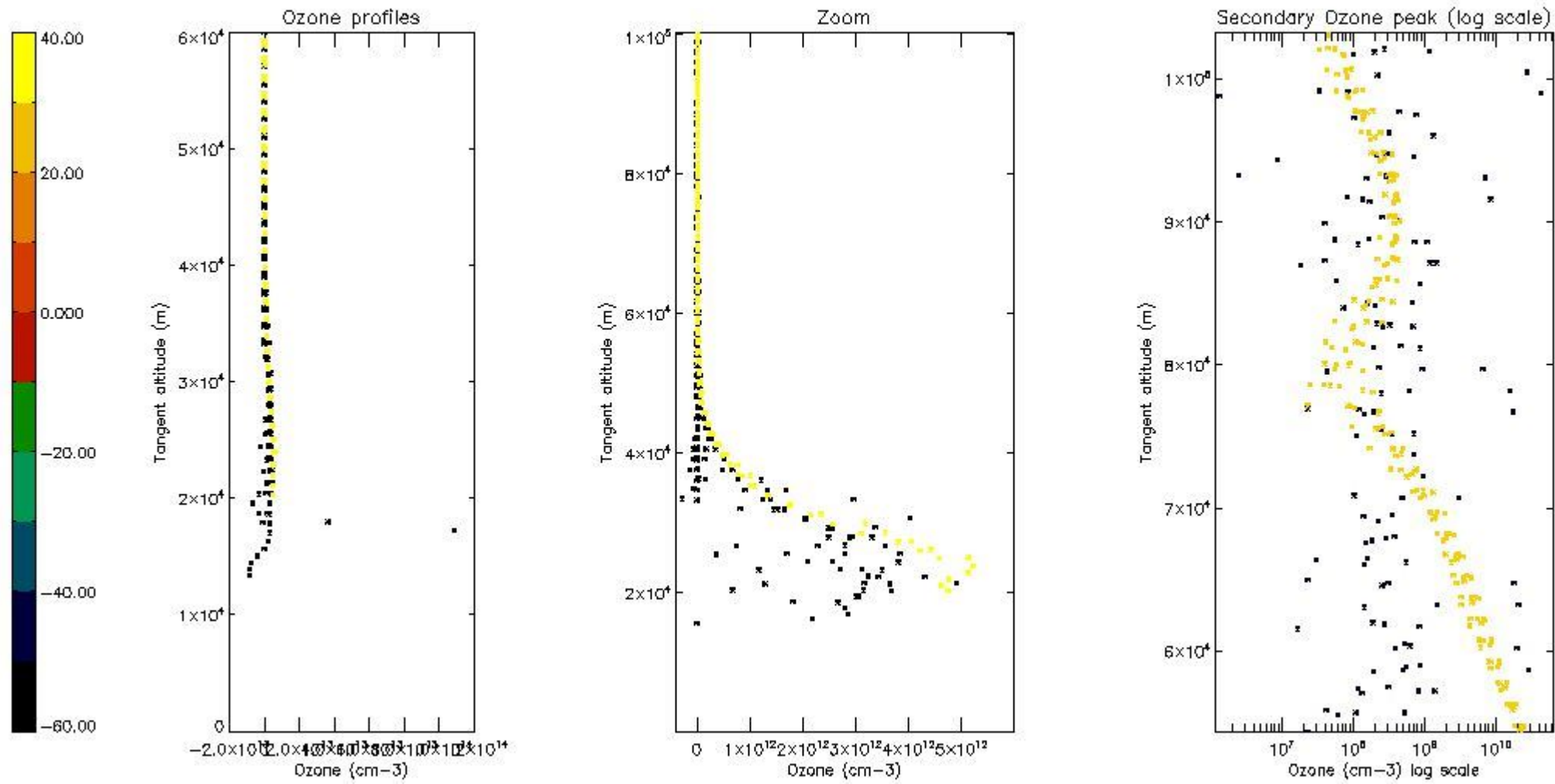
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	52
STD < 20	16

STD < 10	11
STD < 5	8

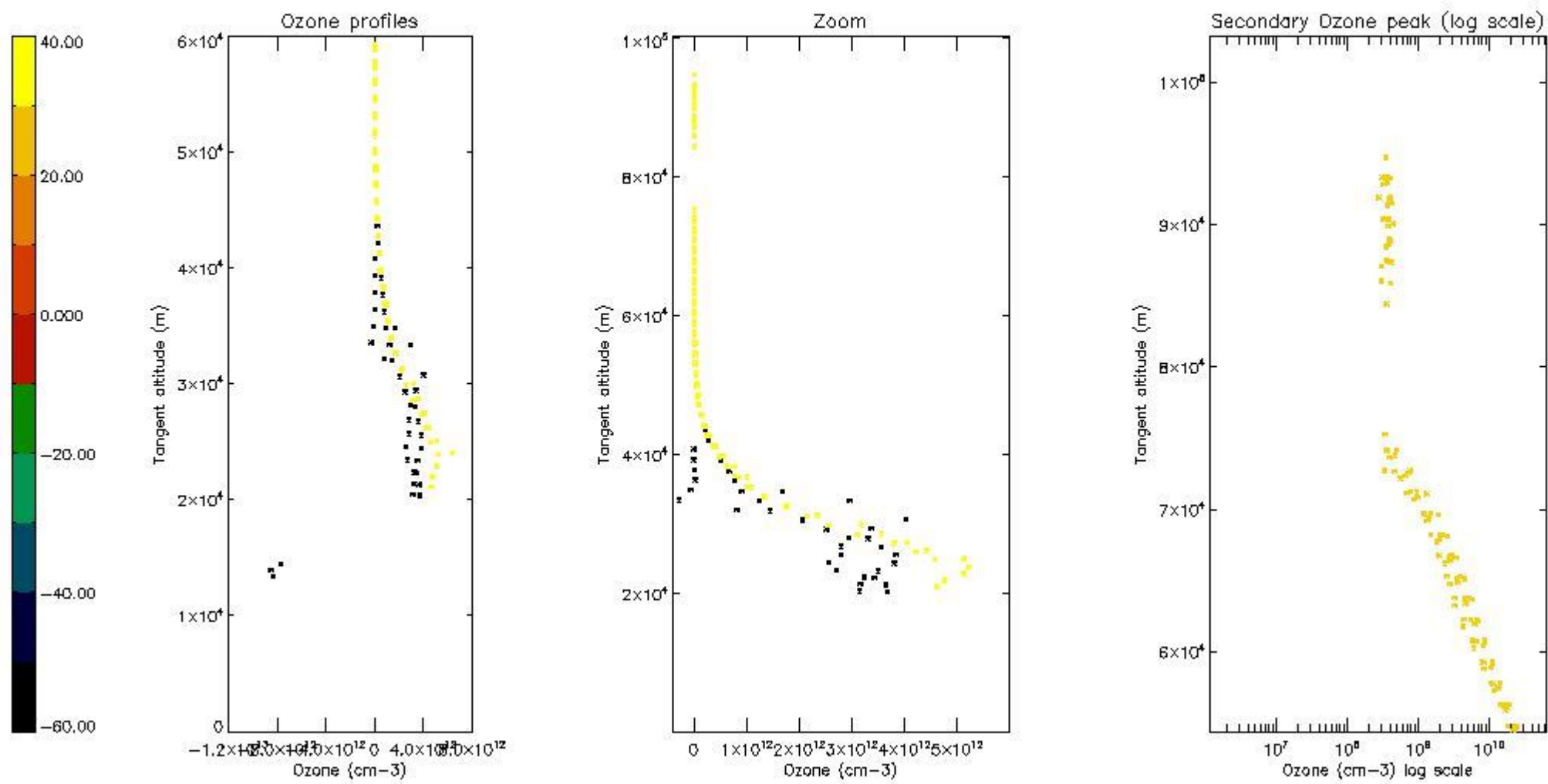
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



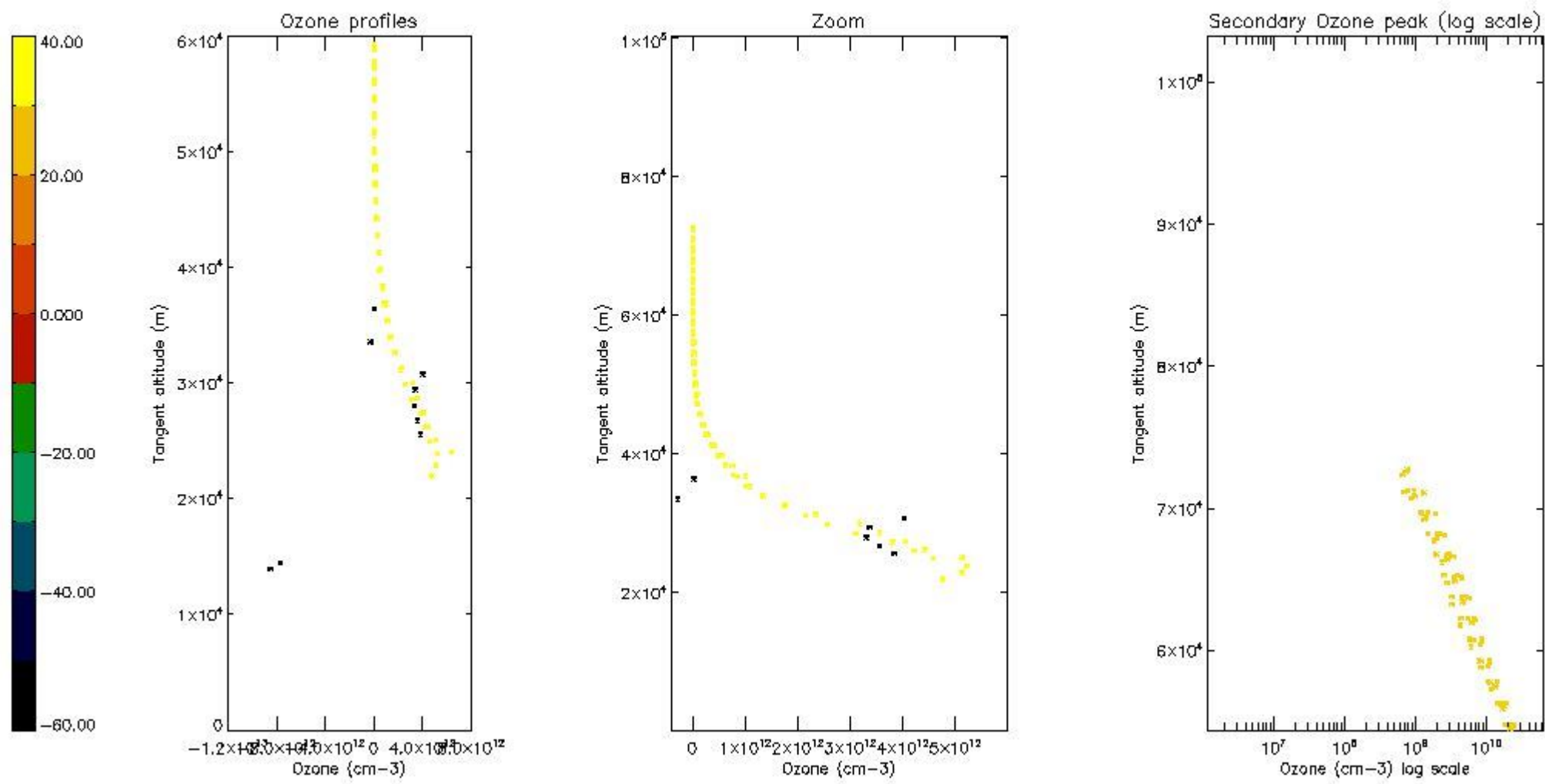
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



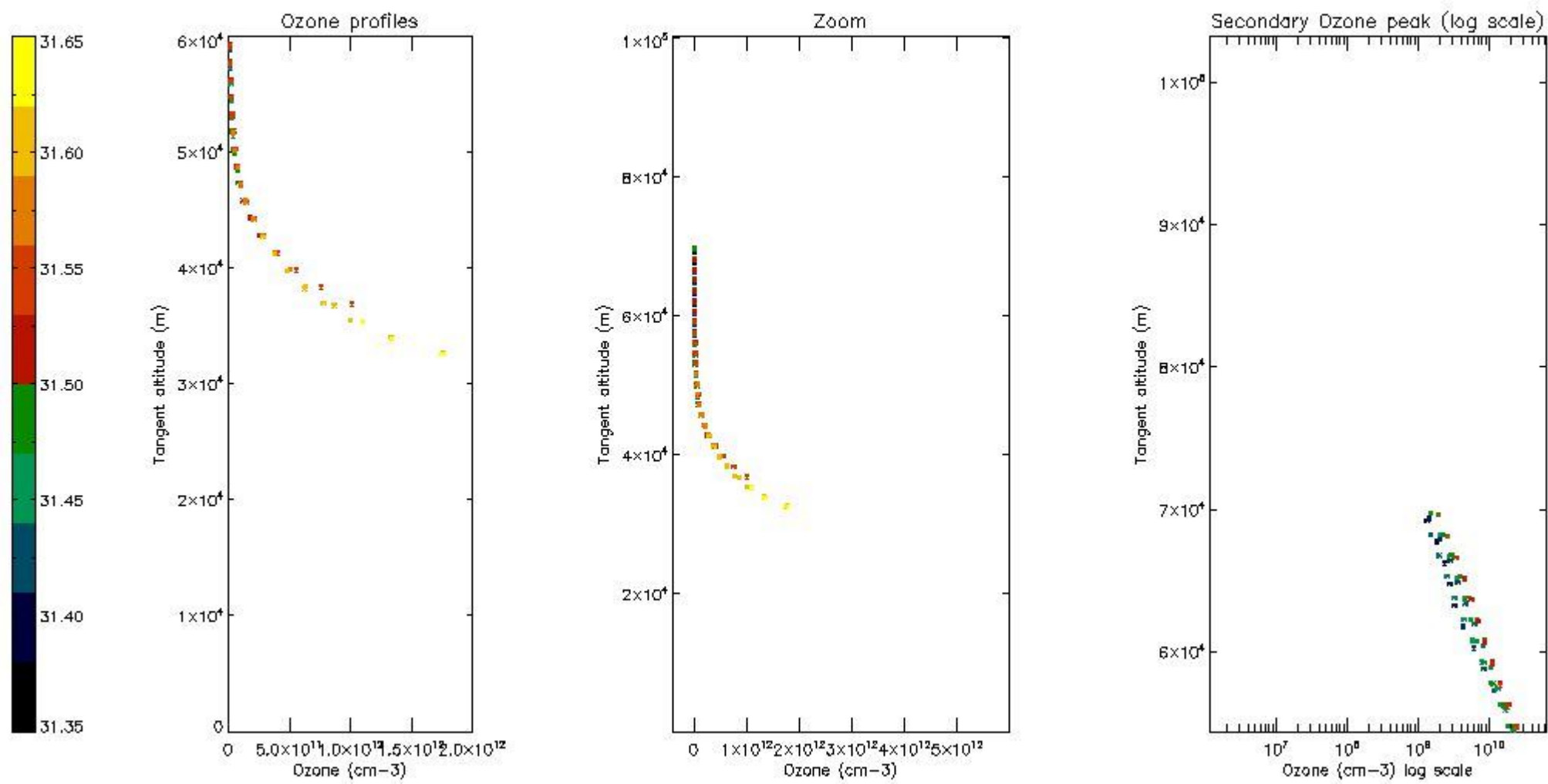
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



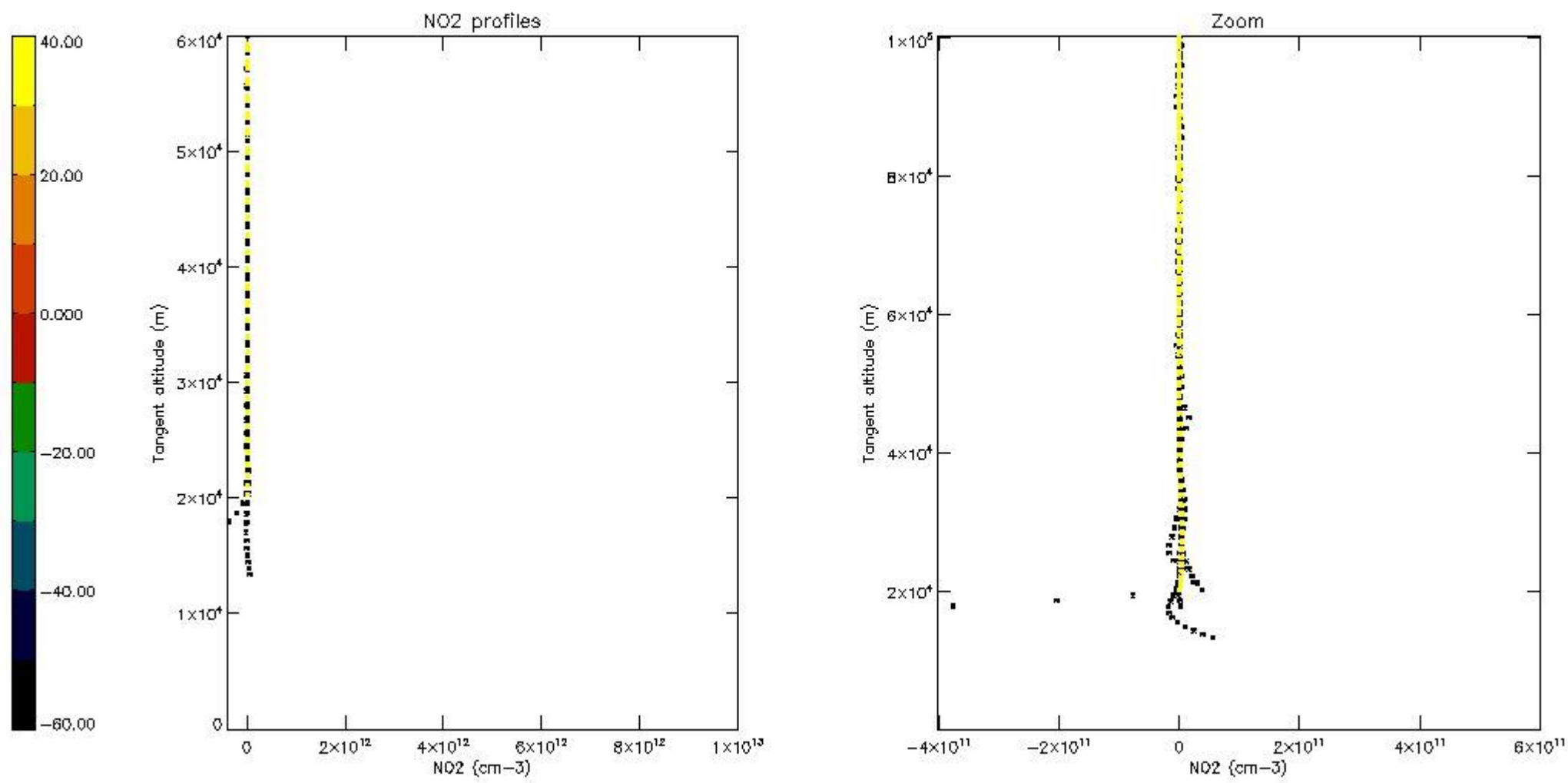
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



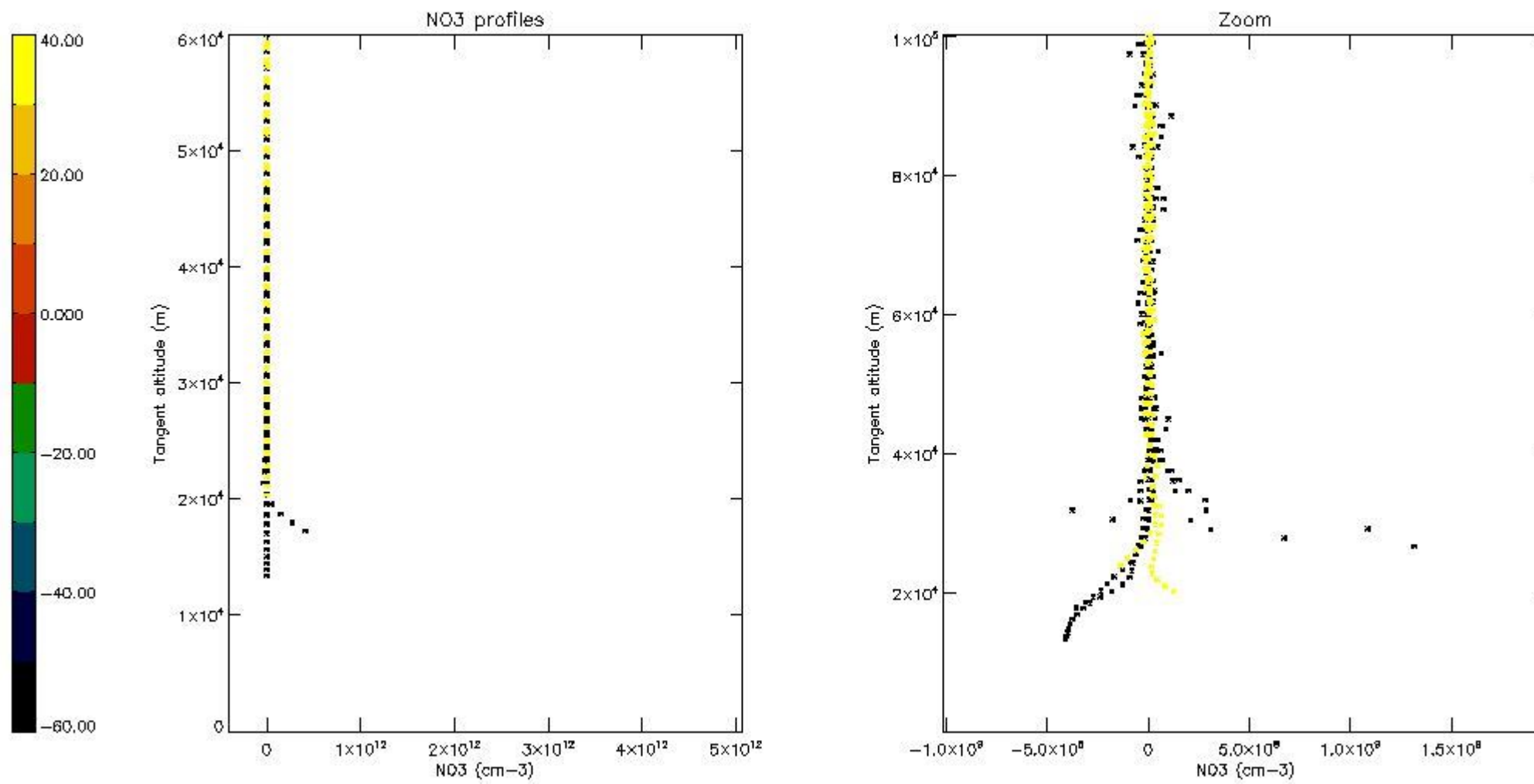
5.6 Plot NO₂ profiles for all STD (dark without errors)

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_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	04-MAR-2012 00:46:33
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	04-MAR-2012 00:46:33
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	04-MAR-2012 00:46:33

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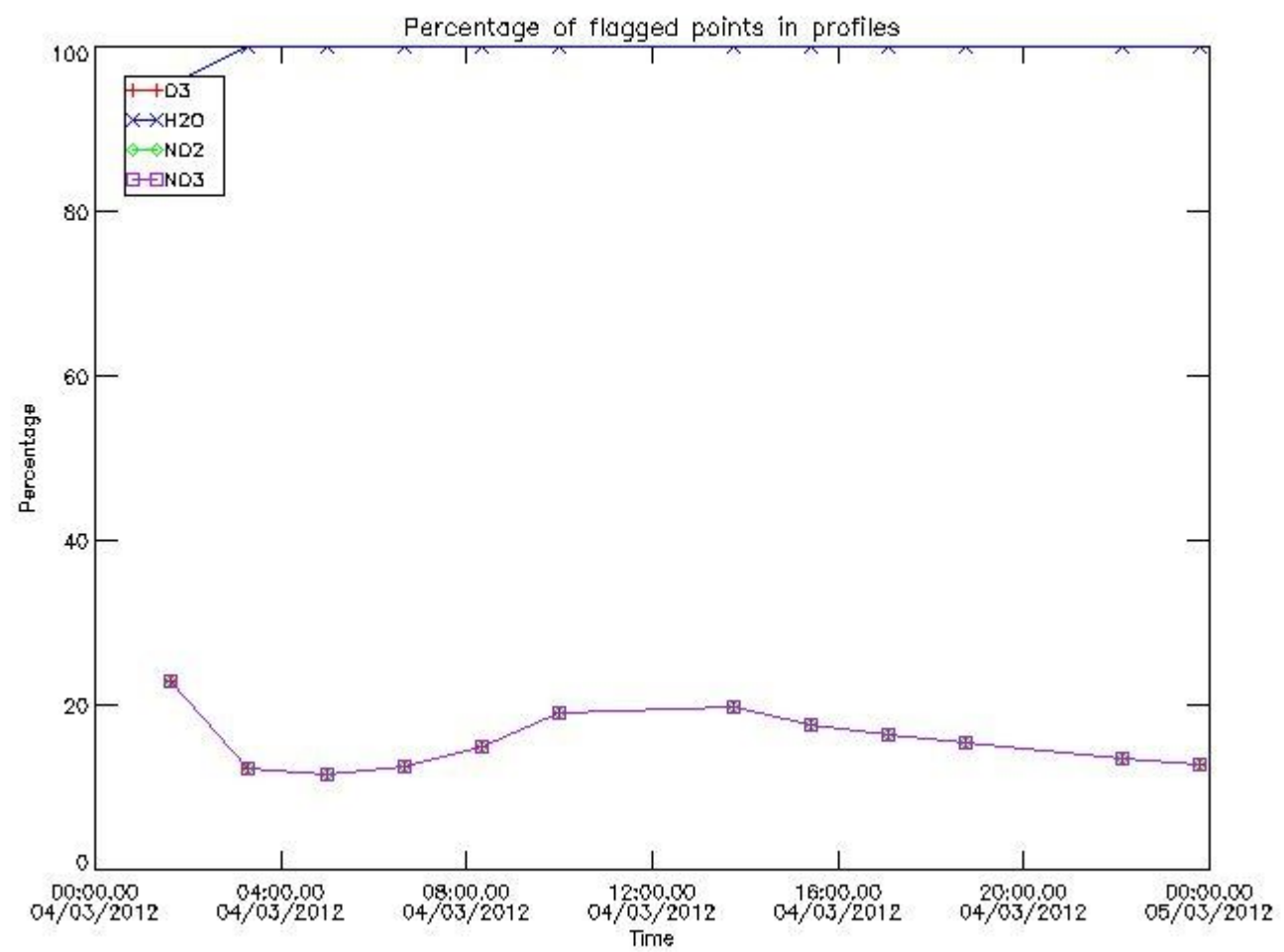
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3. Quality information per product

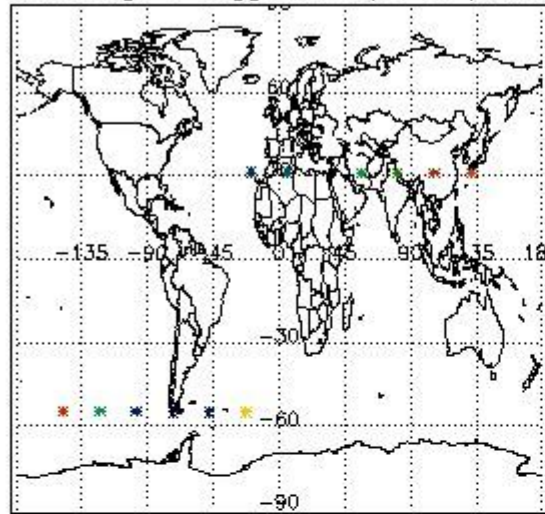
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

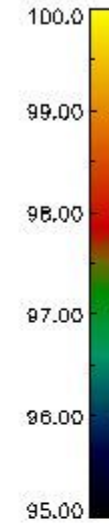
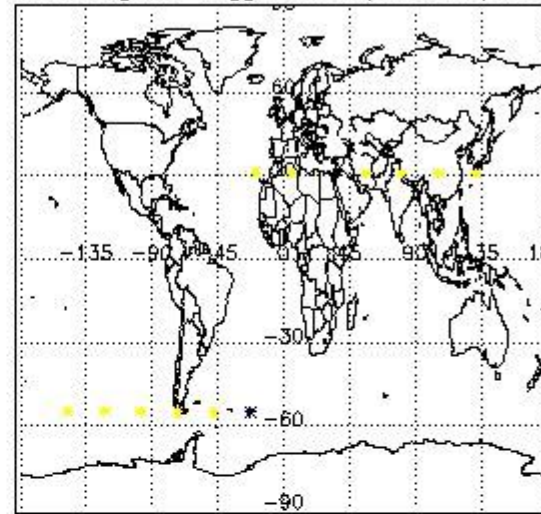


3.2 Plot quality information per product (world map)

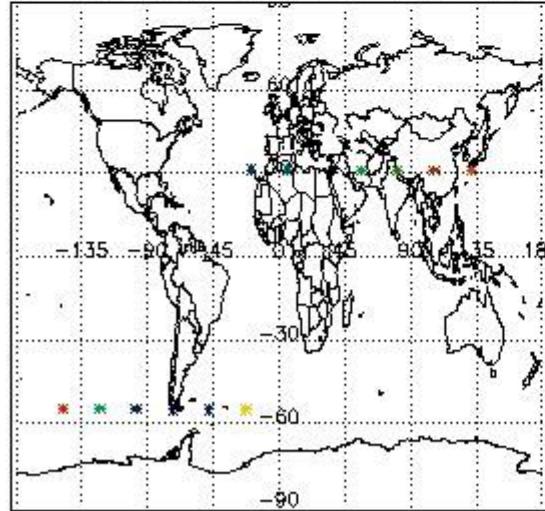
Percentage of flagged data per O3 profile



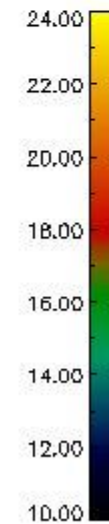
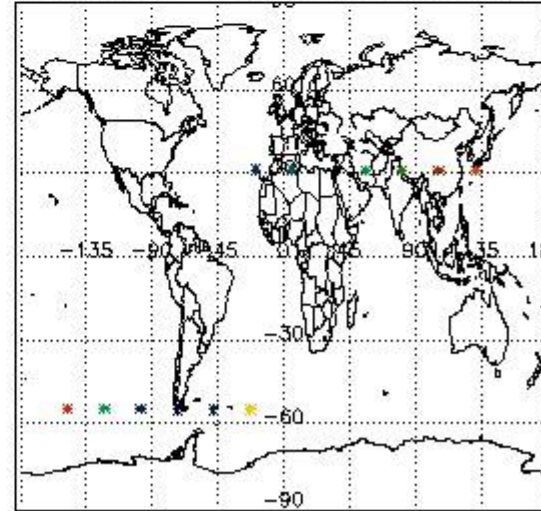
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

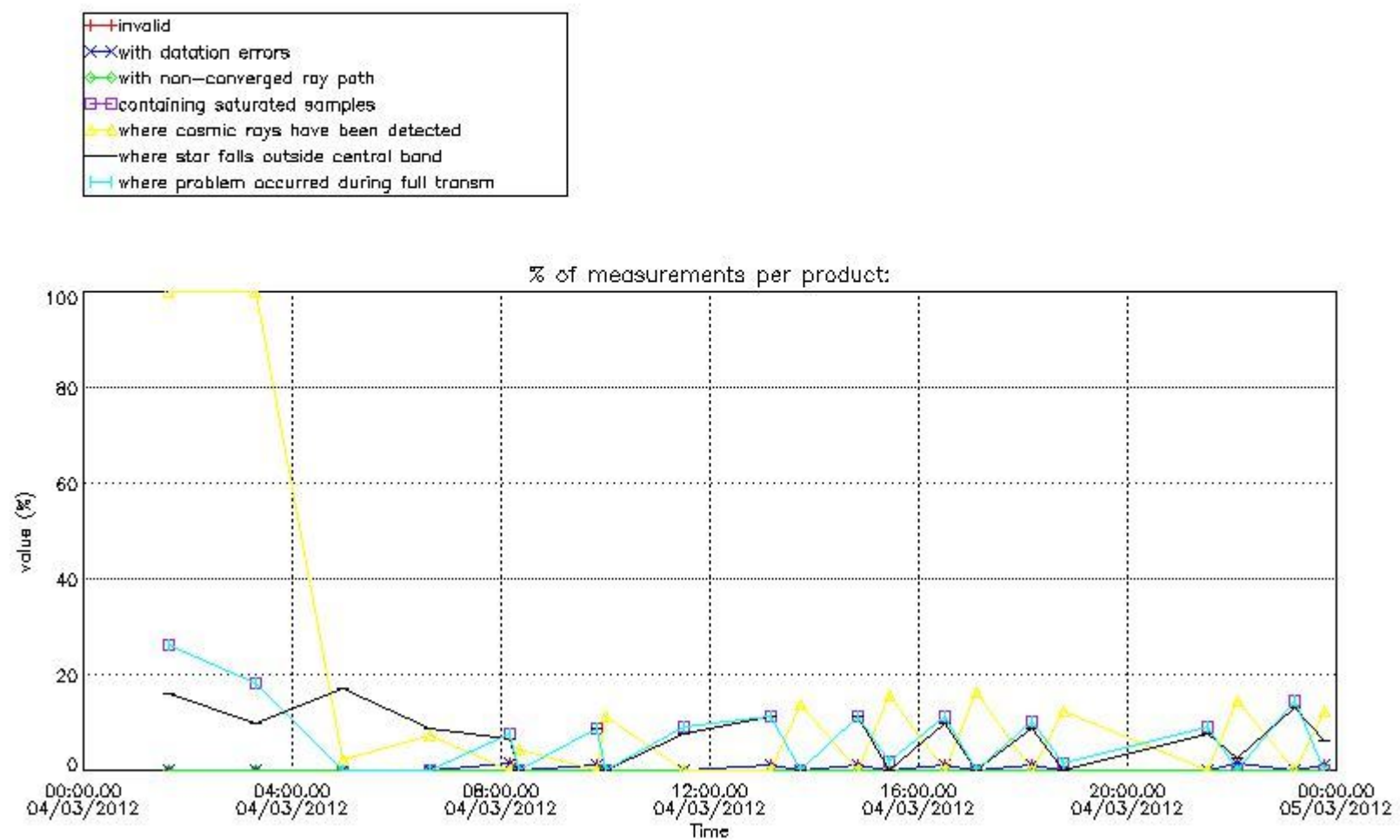


4. Level 1 quality information per product

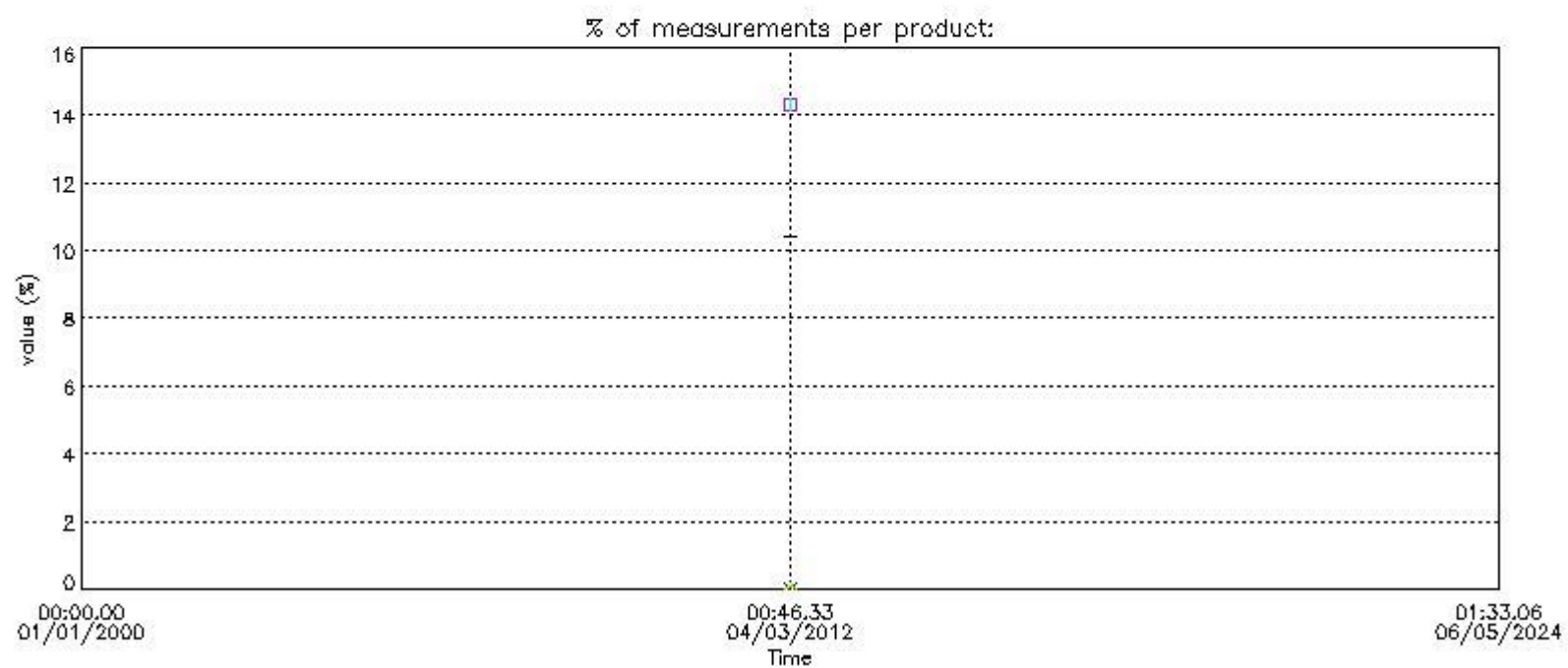
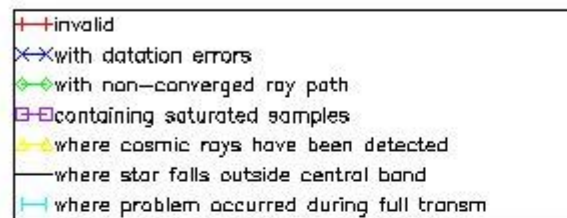
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



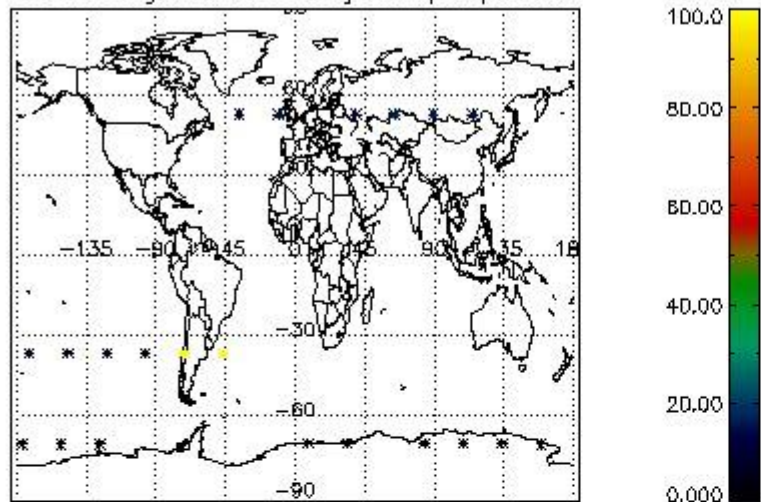
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



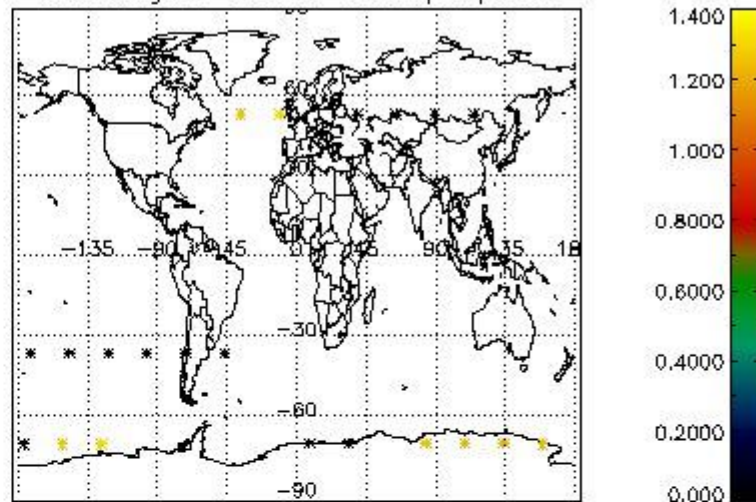
4.2 Plot quality information per product coming from level 1b processing (world map)

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

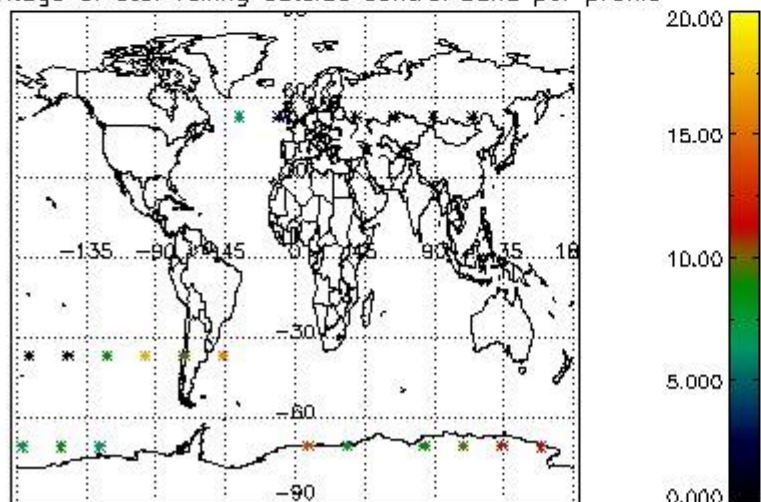
Percentage of cosmic ray hits per profile



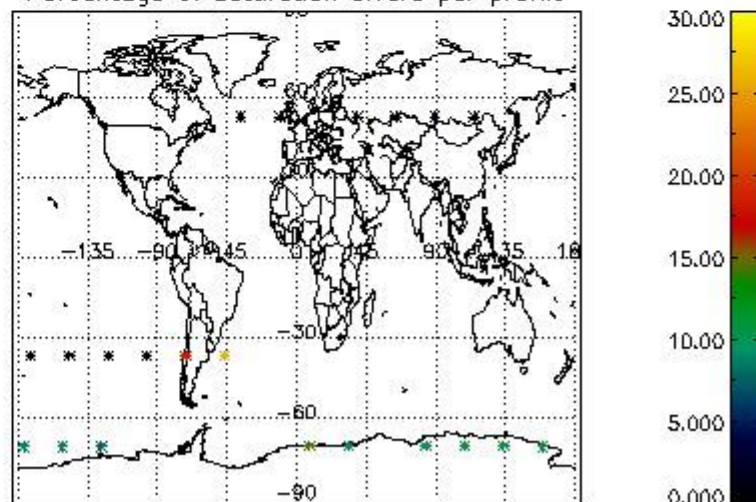
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

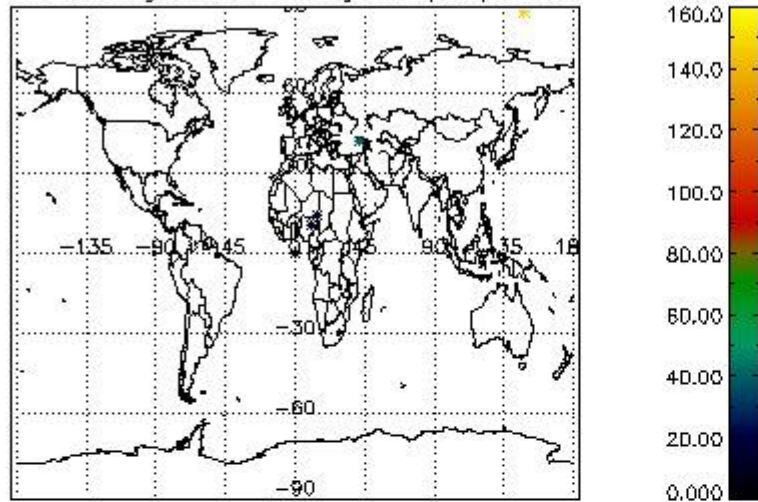


Percentage of saturation errors per profile

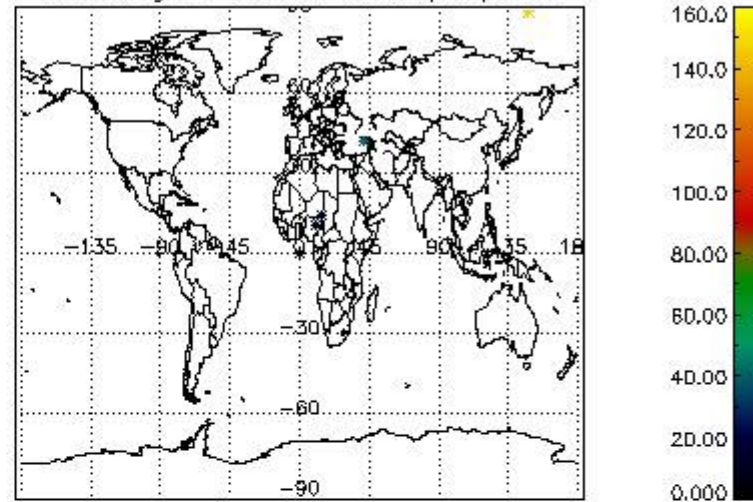


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

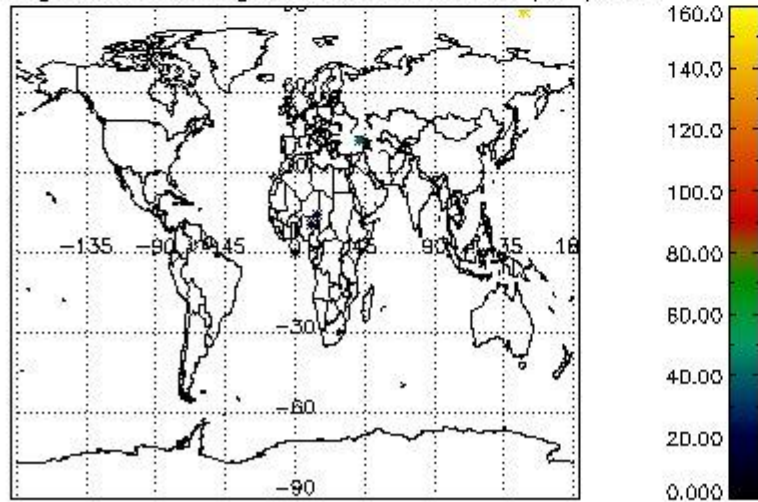
Percentage of cosmic ray hits per profile



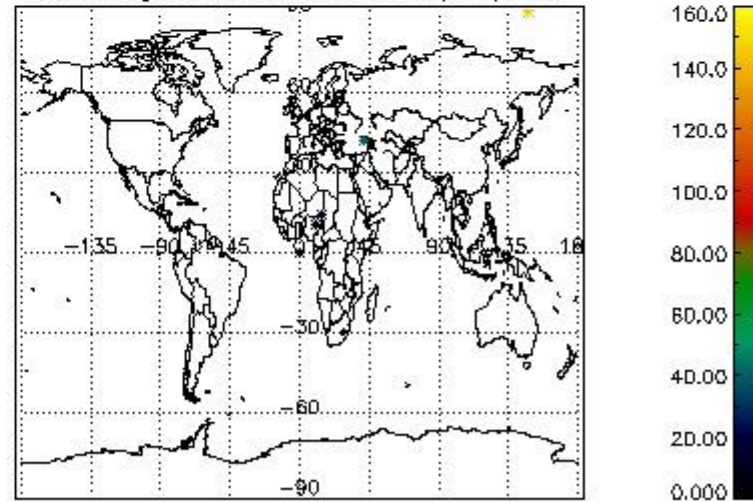
Percentage of datation errors per profile



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

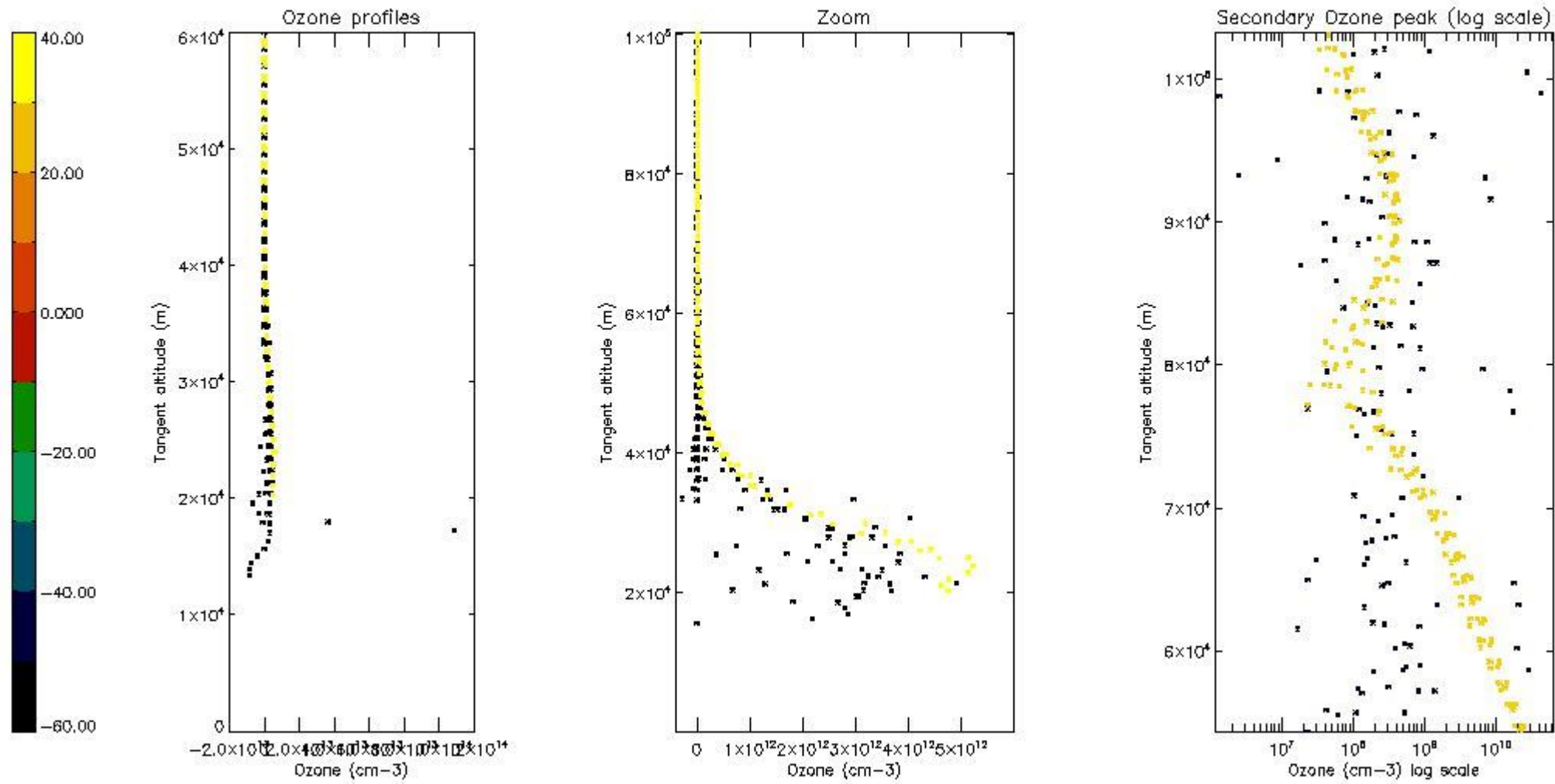
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	52
STD < 20	16

STD < 10	11
STD < 5	8

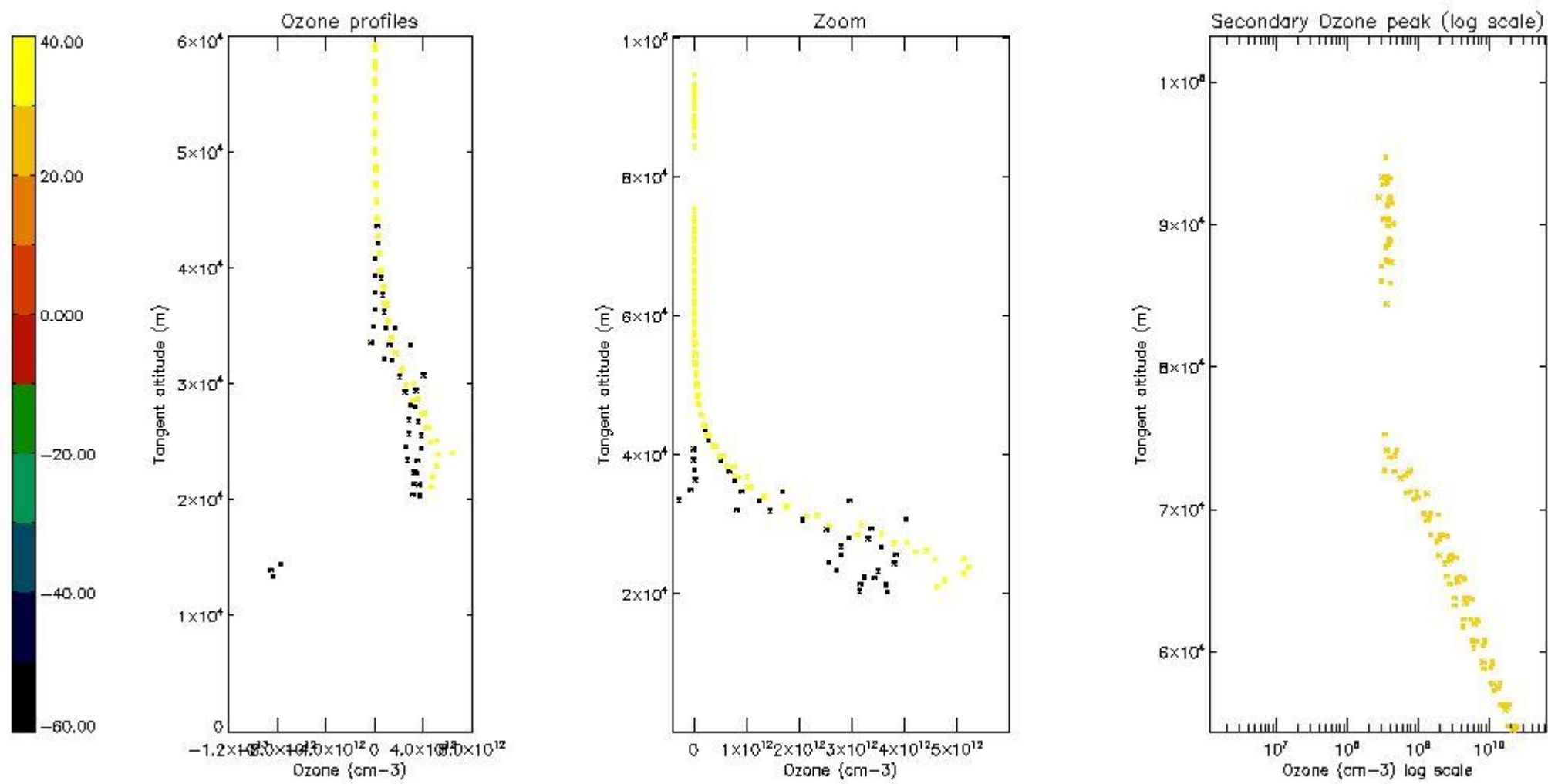
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



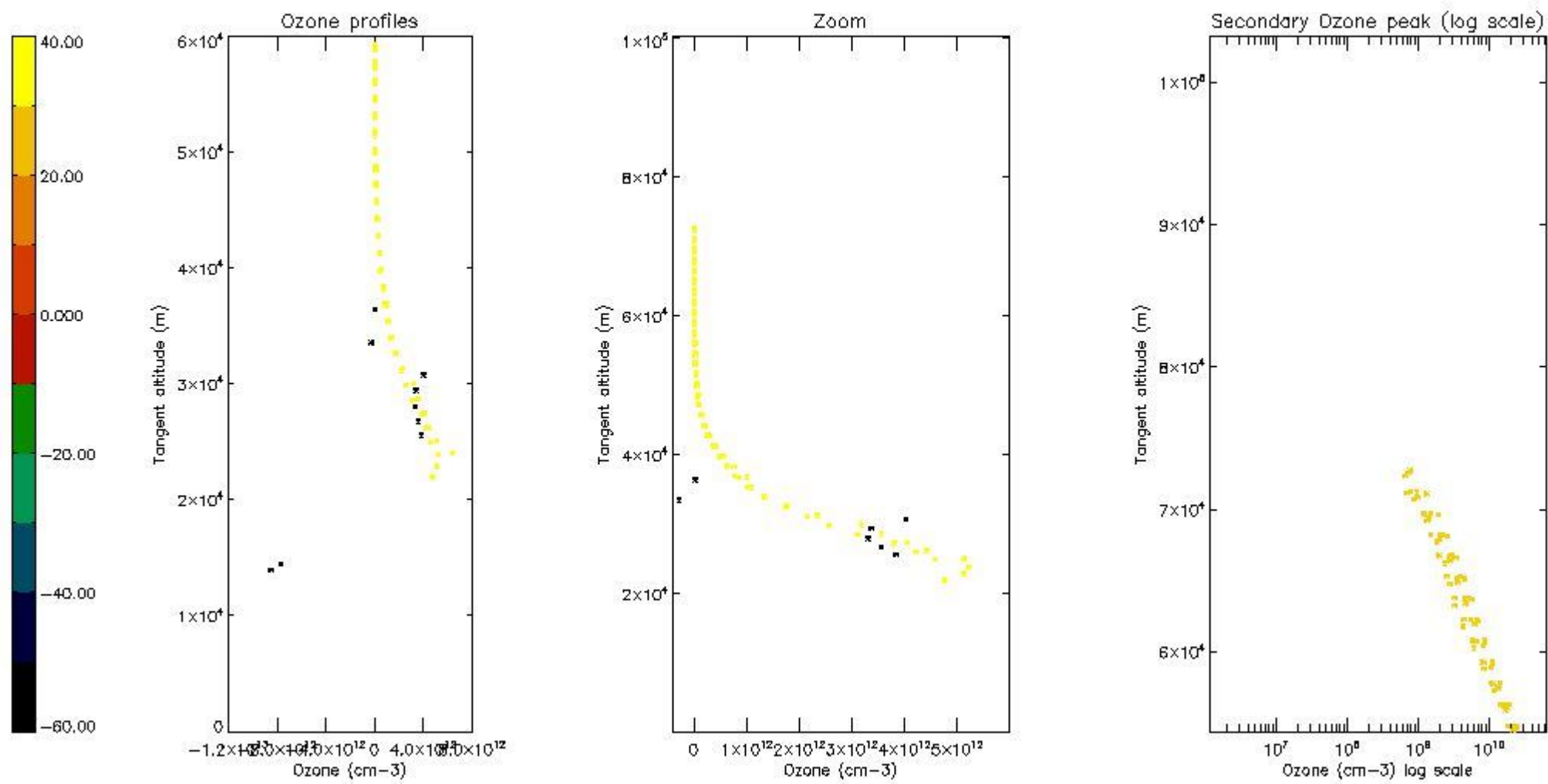
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



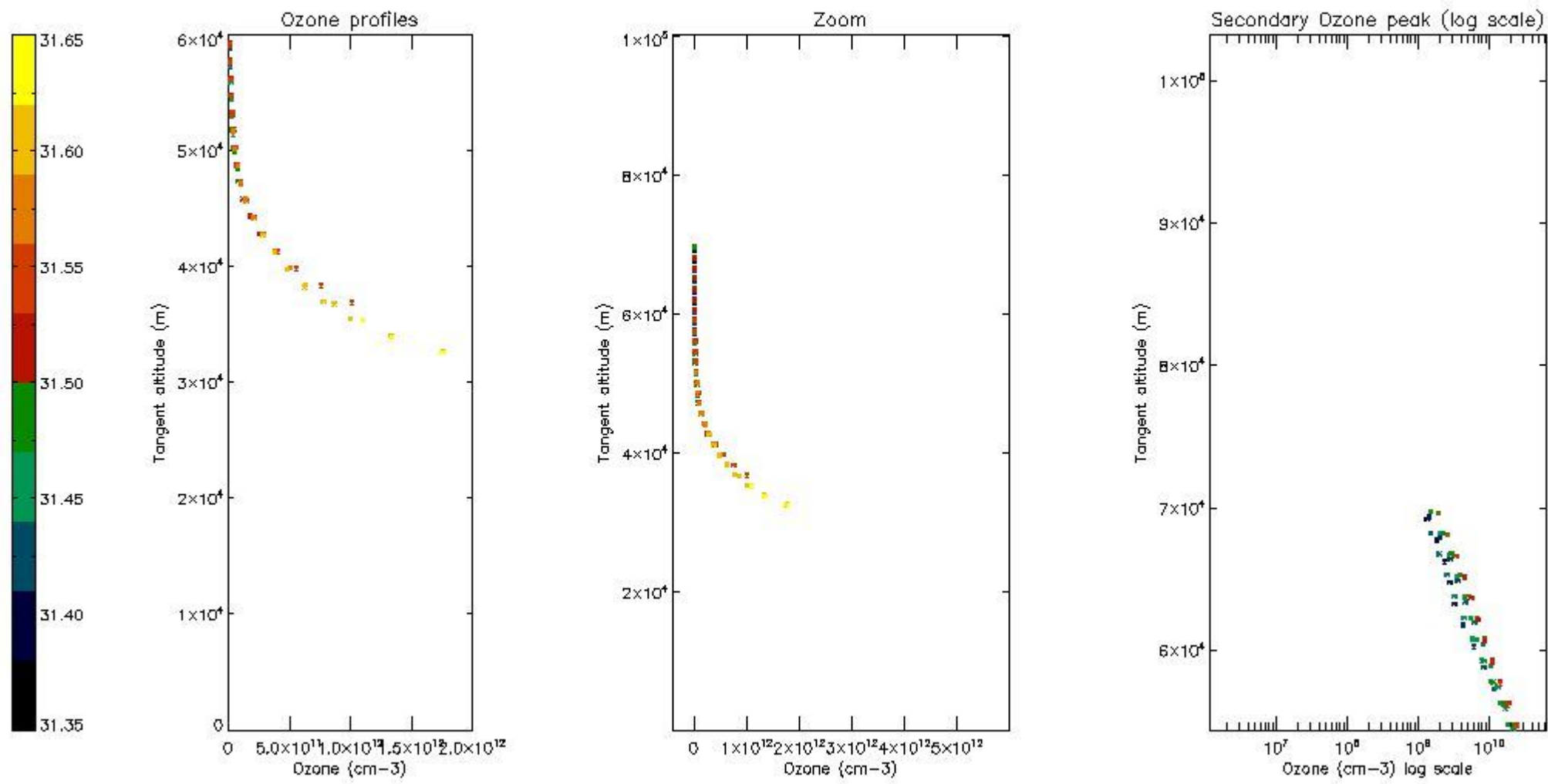
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



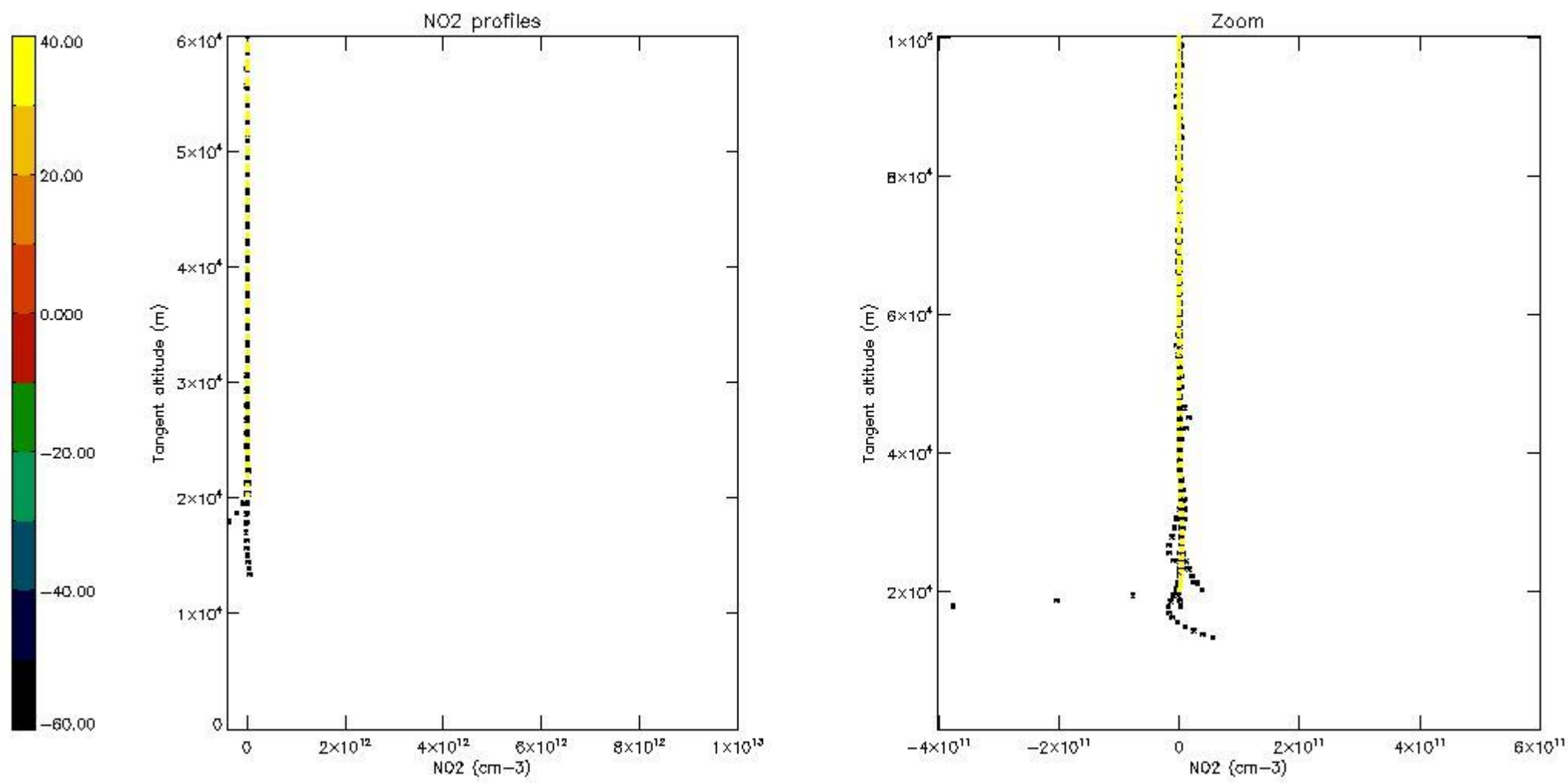
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



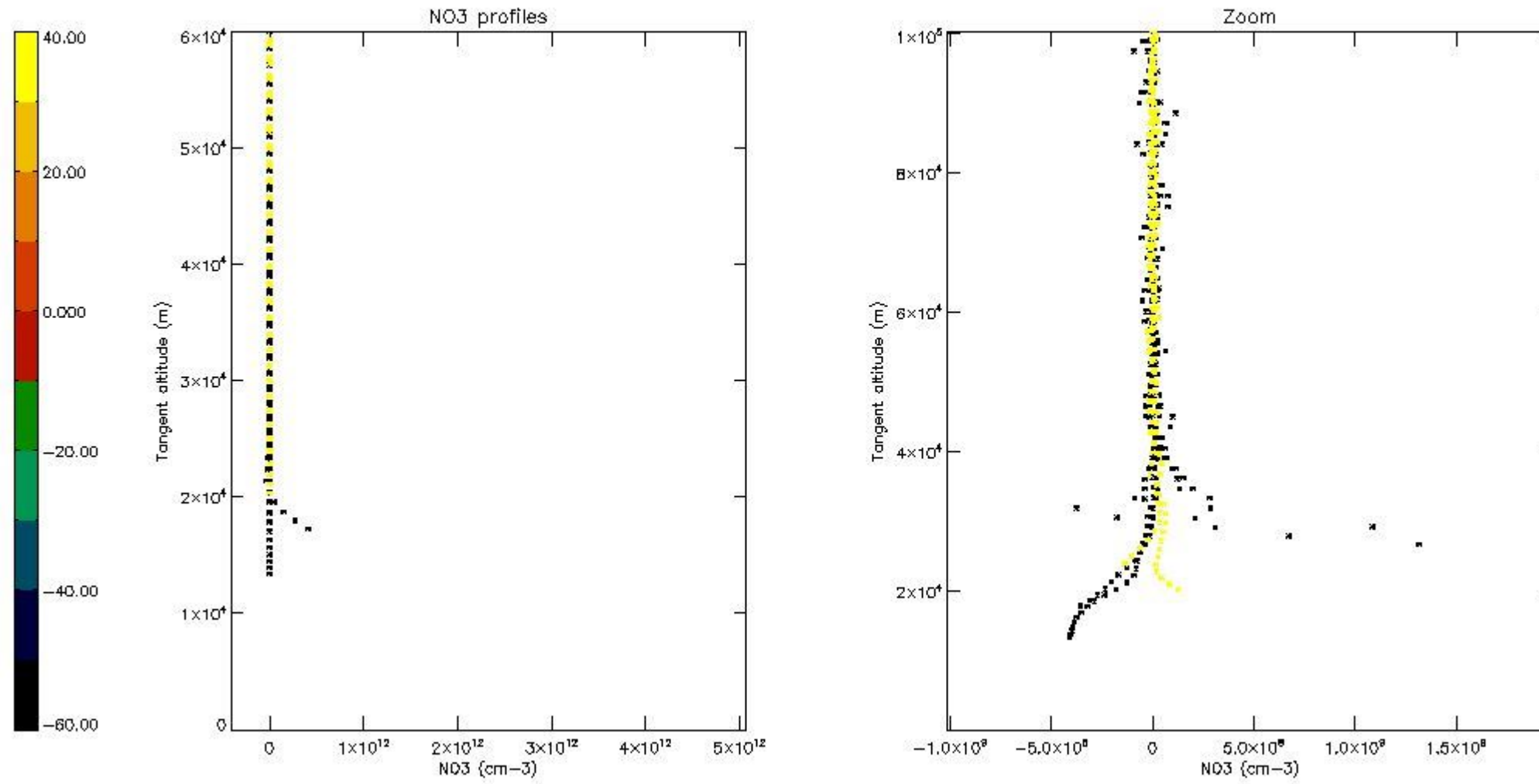
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

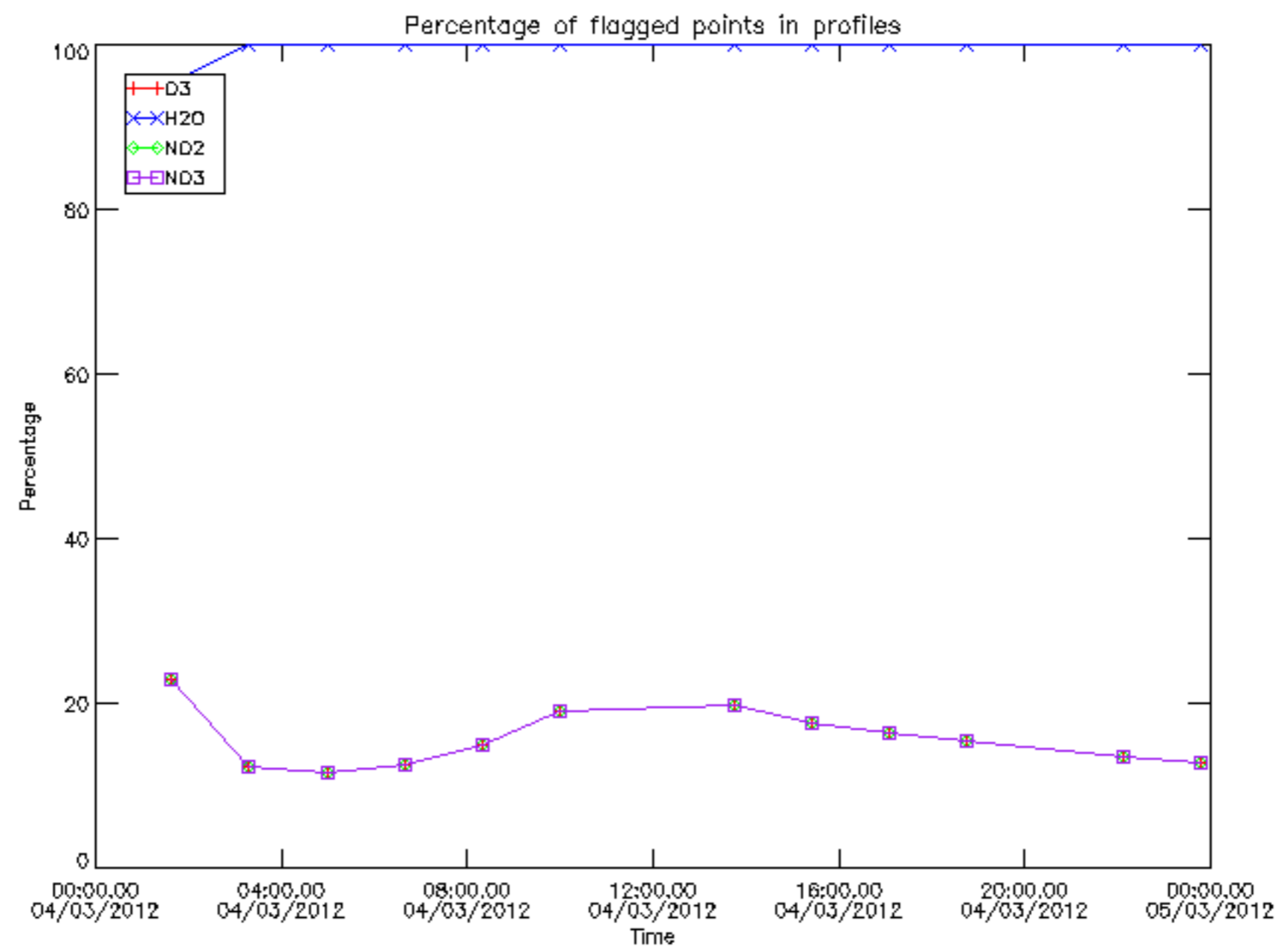
The colorbar represents the latitude.



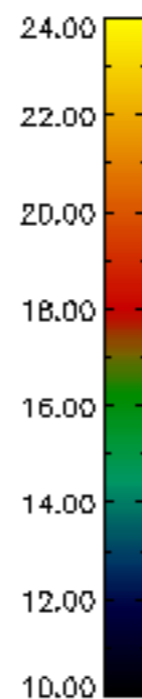
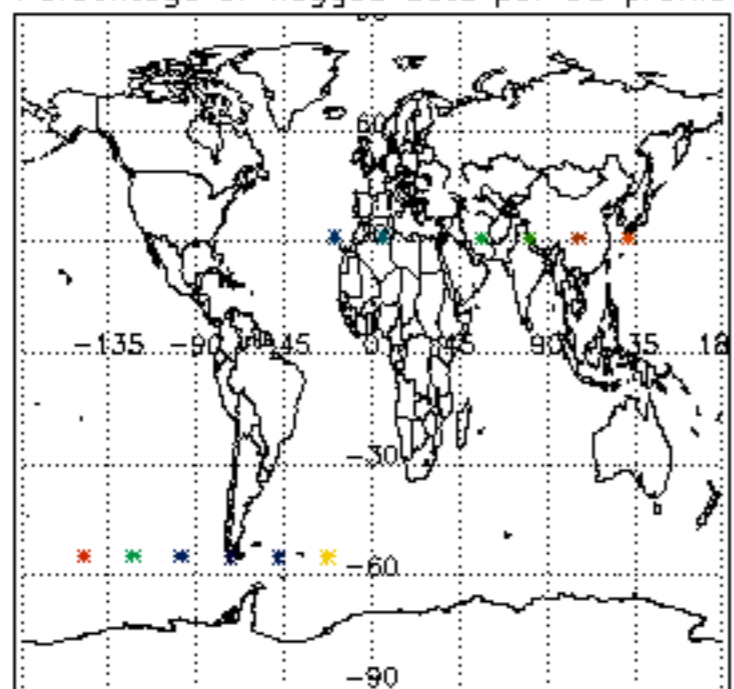
6. Auxiliary Data Files used for the production reported in section 2

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.

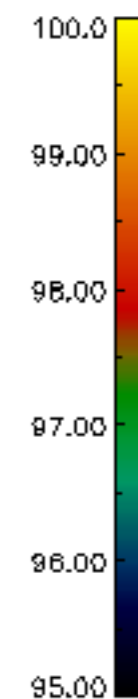
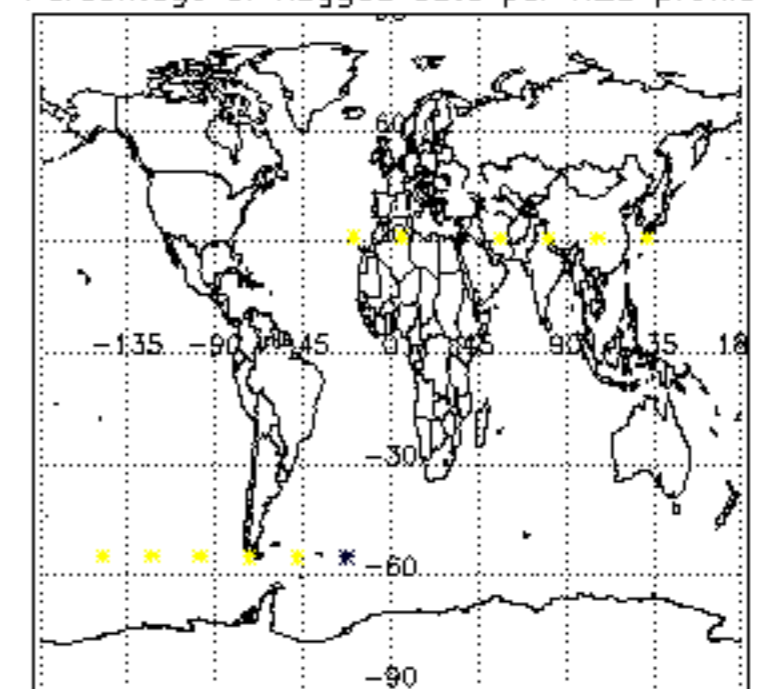
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	04-MAR-2012 00:46:33
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	04-MAR-2012 00:46:33
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	04-MAR-2012 00:46:33



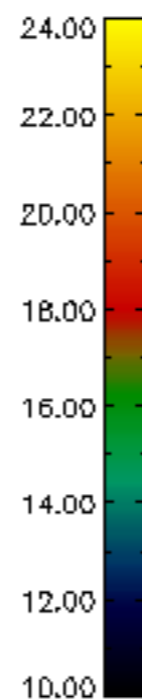
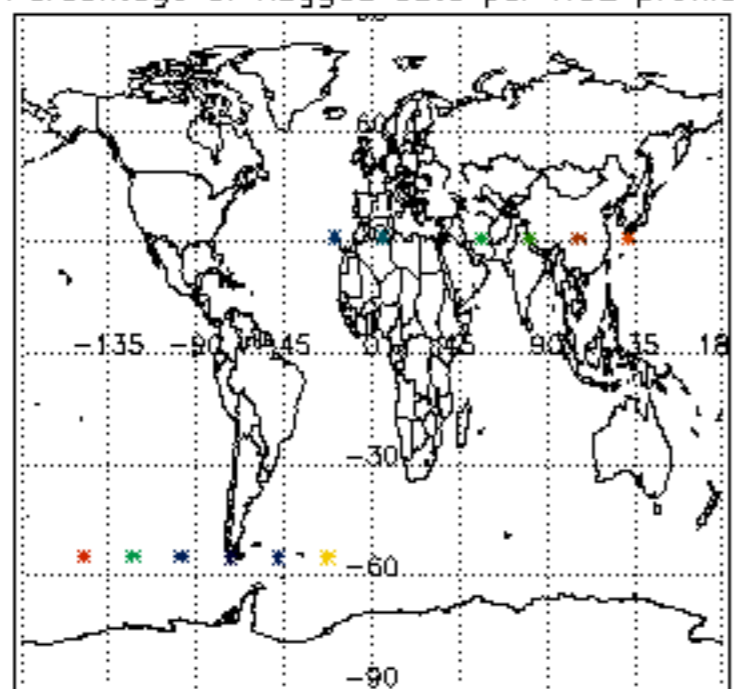
Percentage of flagged data per D3 profile



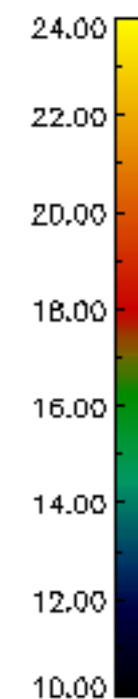
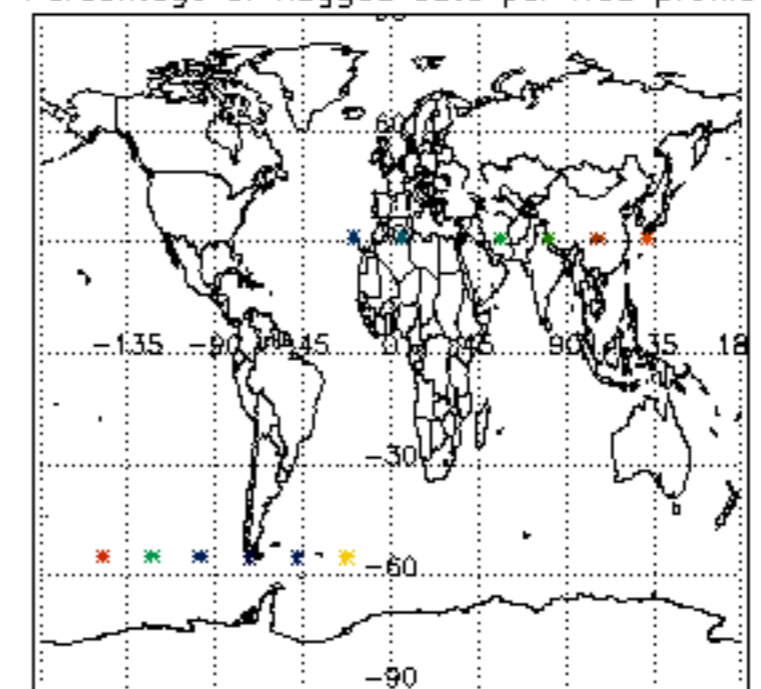
Percentage of flagged data per H2O profile

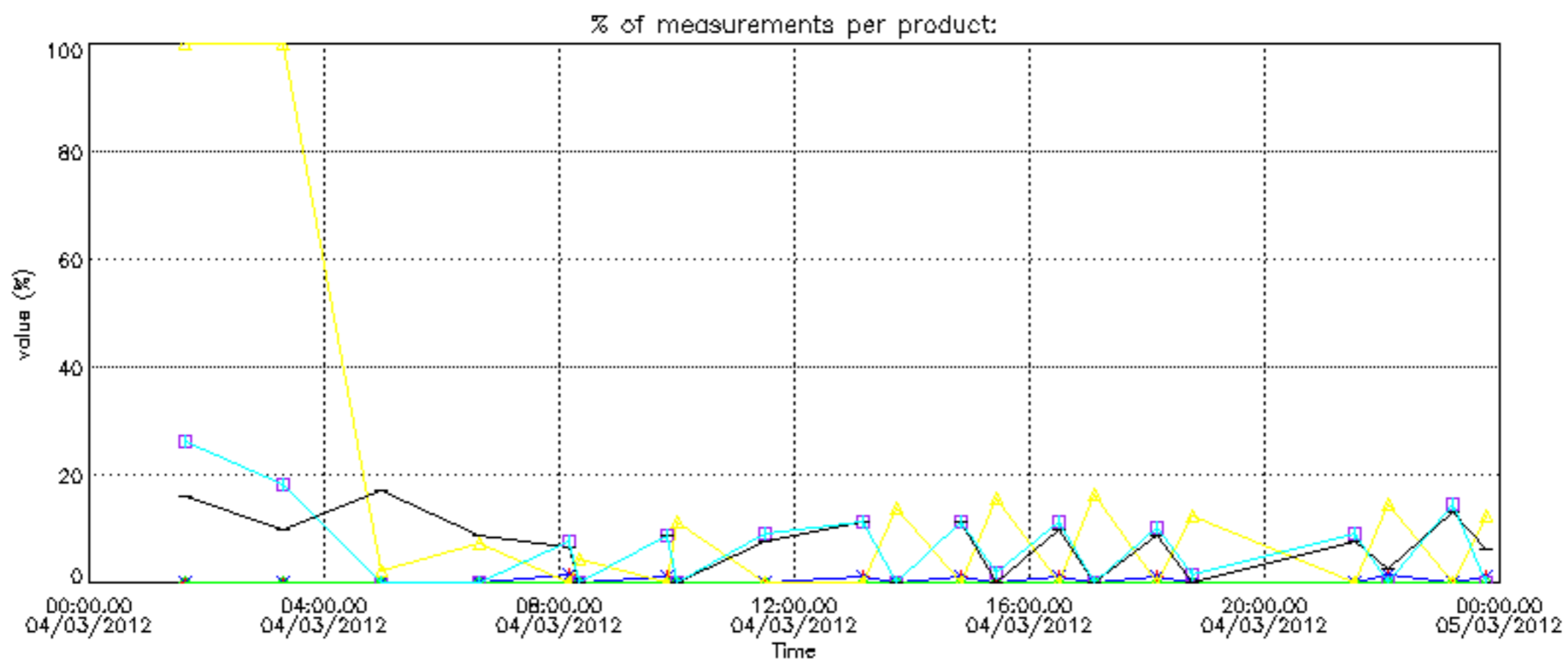


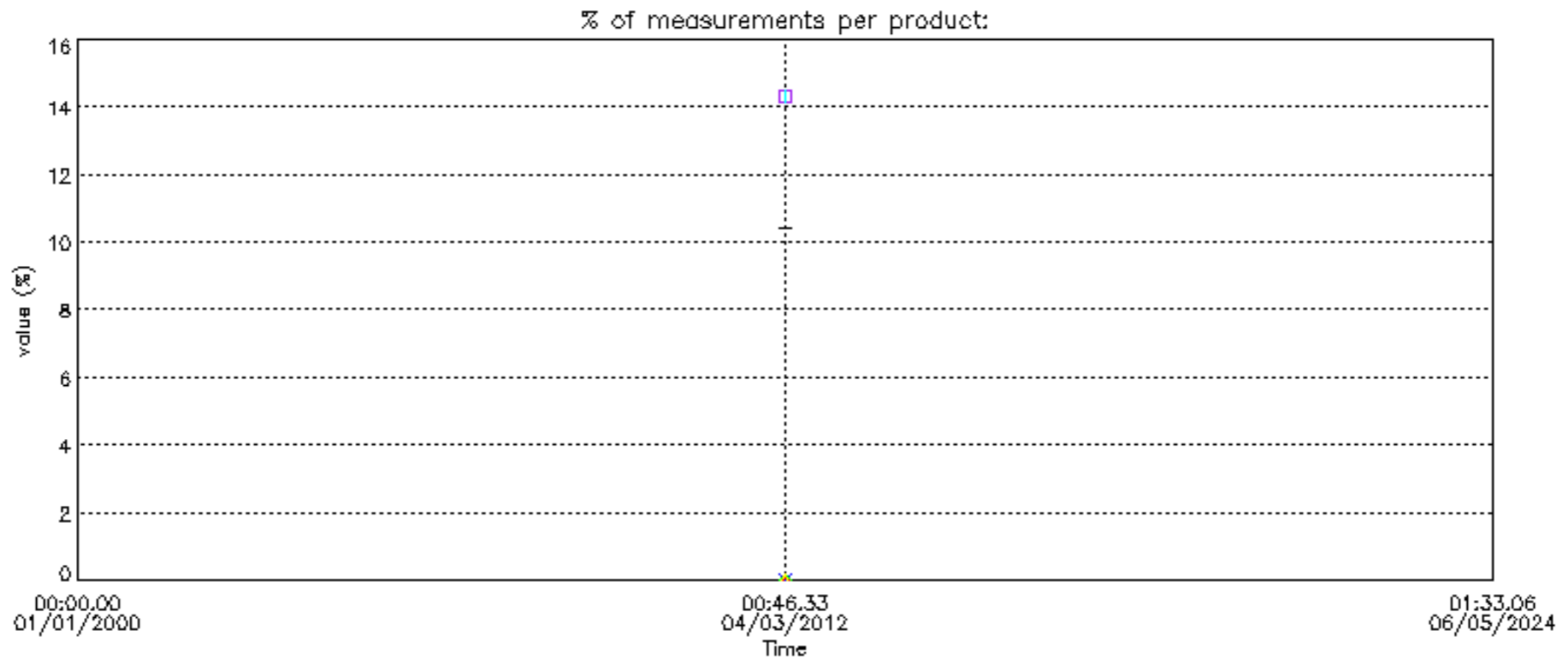
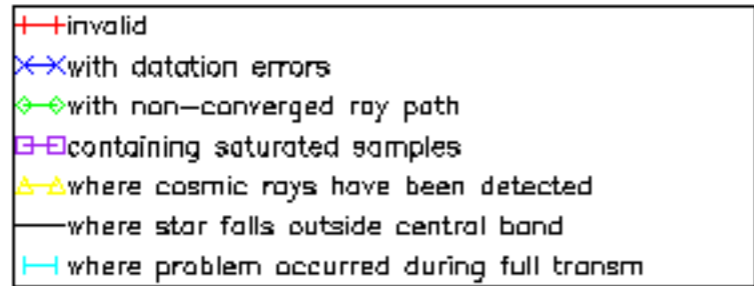
Percentage of flagged data per NO2 profile



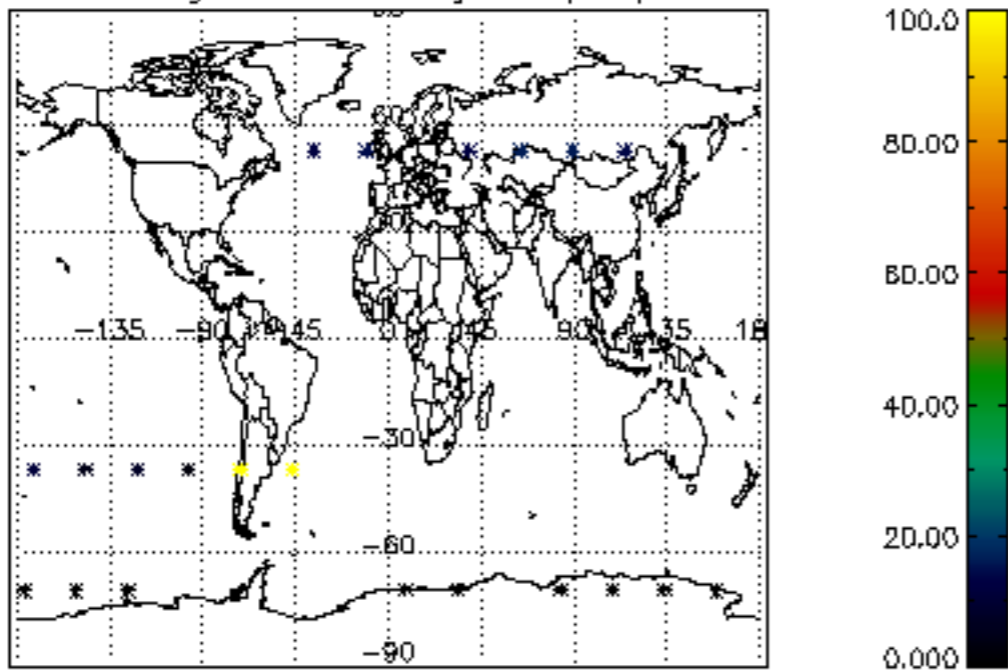
Percentage of flagged data per NO3 profile



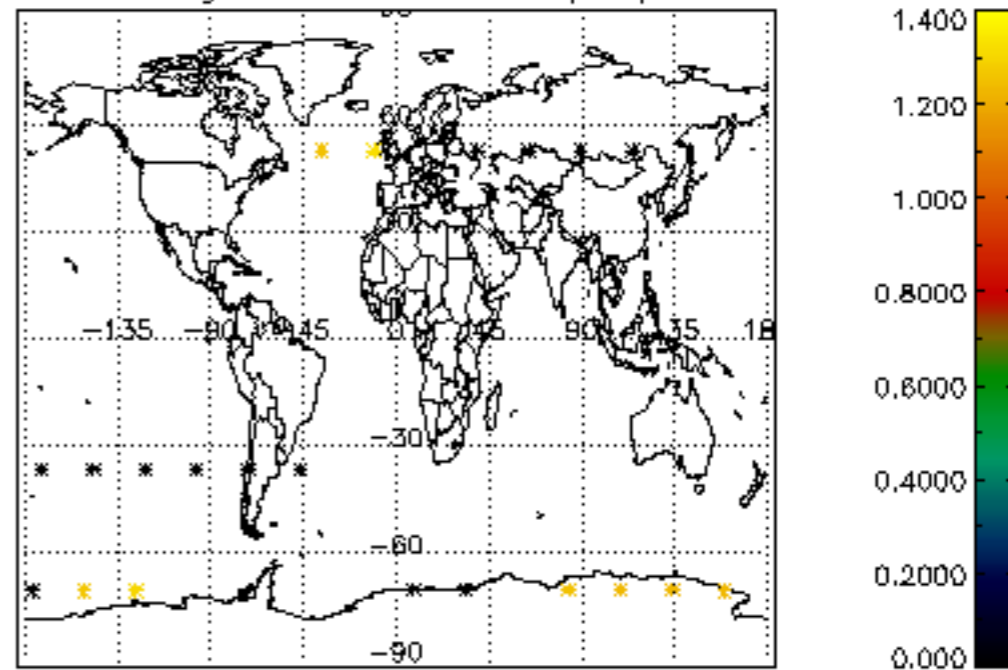




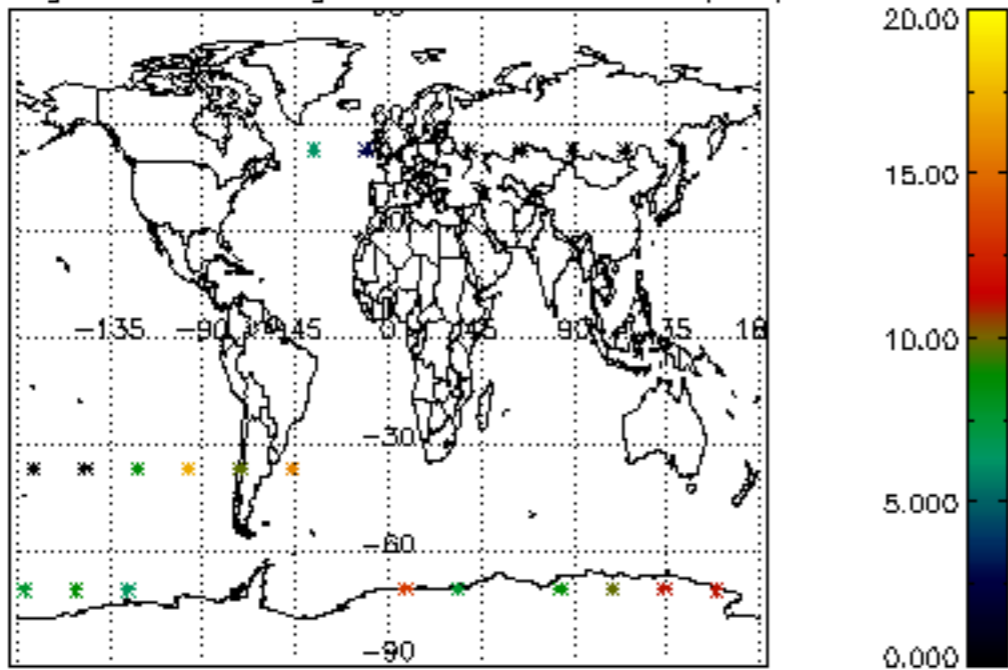
Percentage of cosmic ray hits per profile



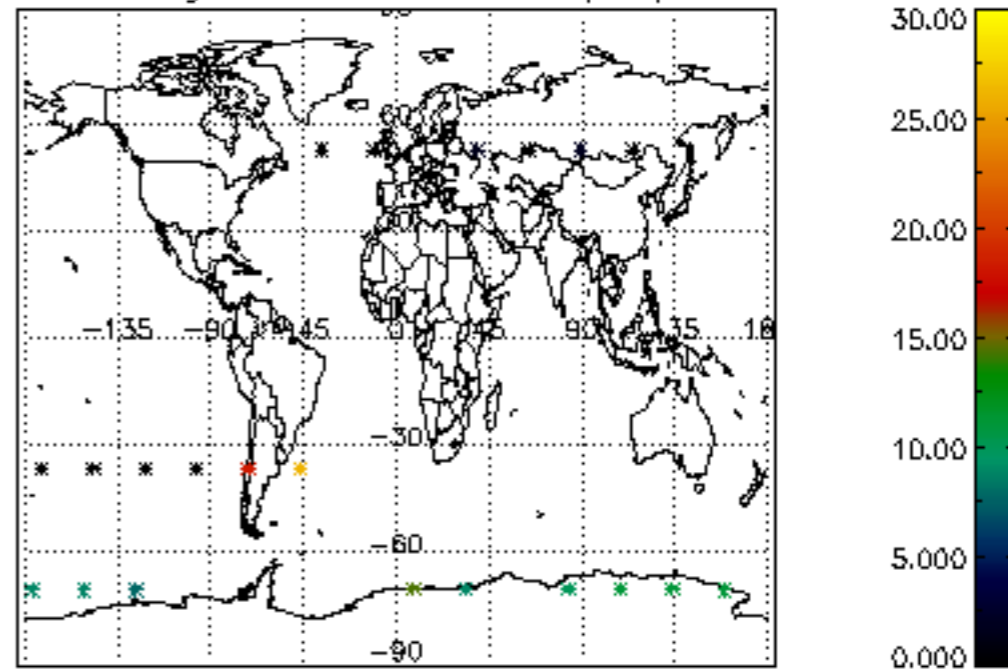
Percentage of datation errors per profile



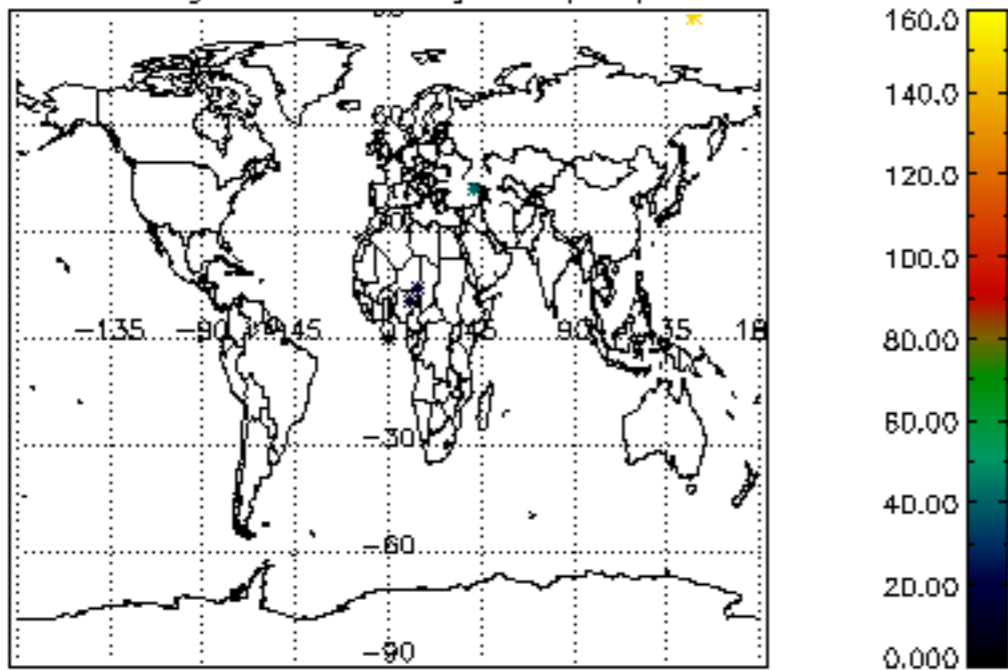
Percentage of star falling outside central band per profile



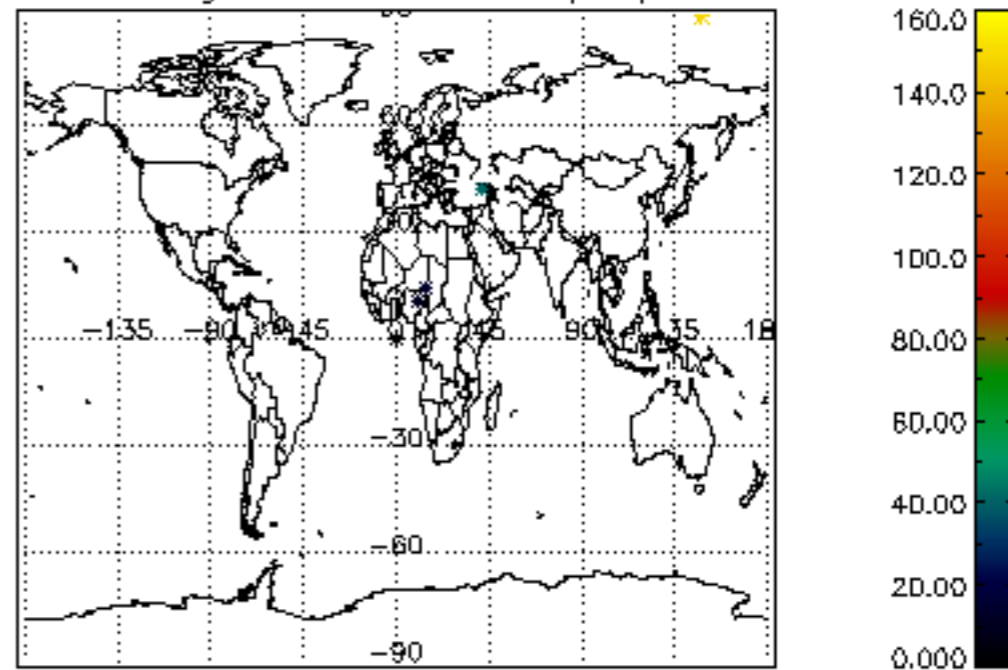
Percentage of saturation errors per profile



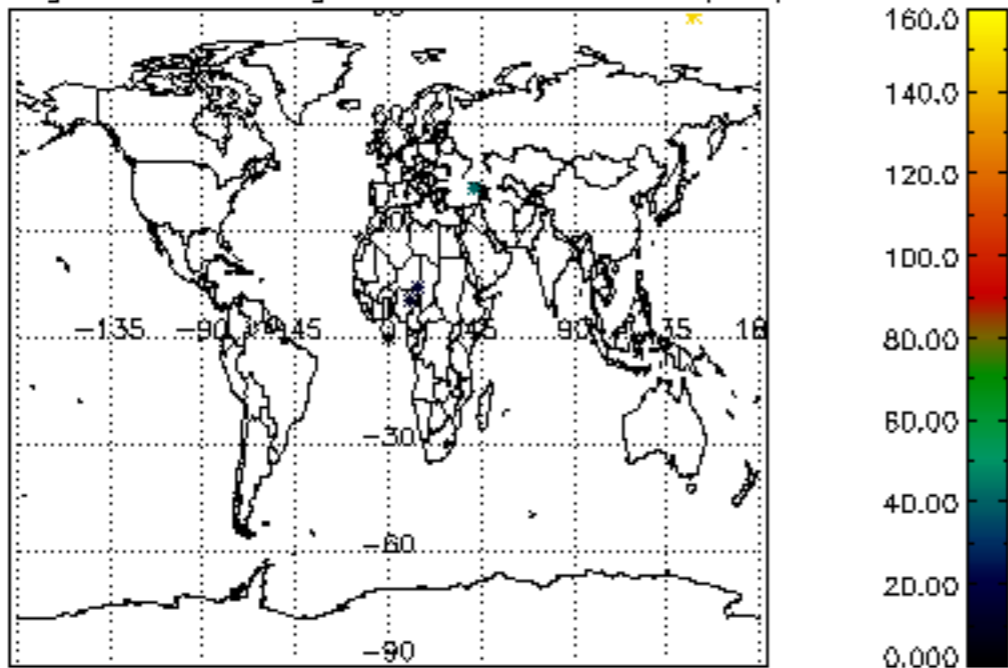
Percentage of cosmic ray hits per profile



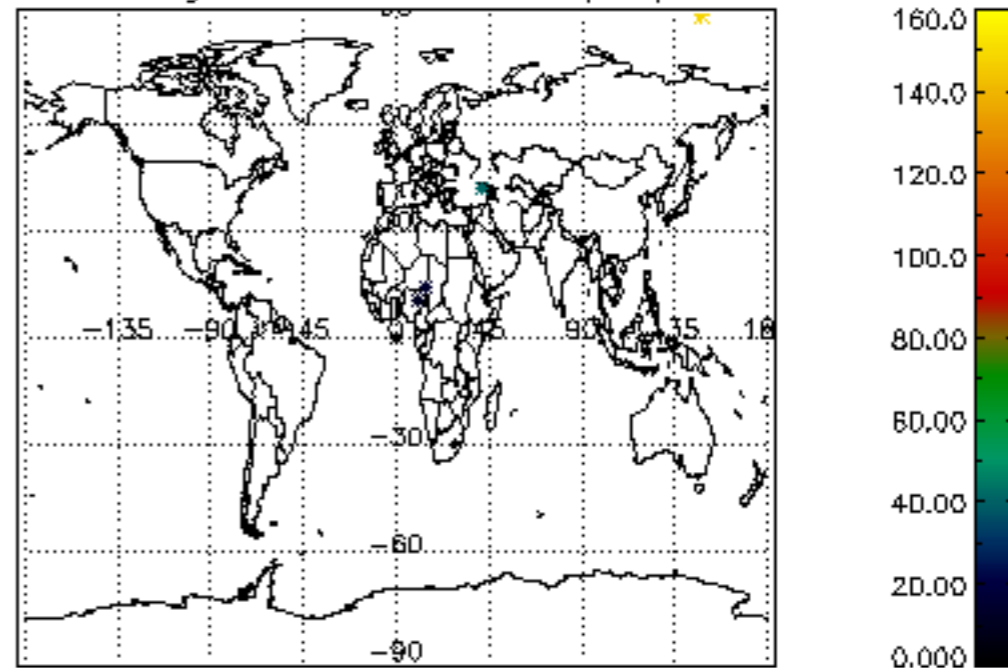
Percentage of datation errors per profile

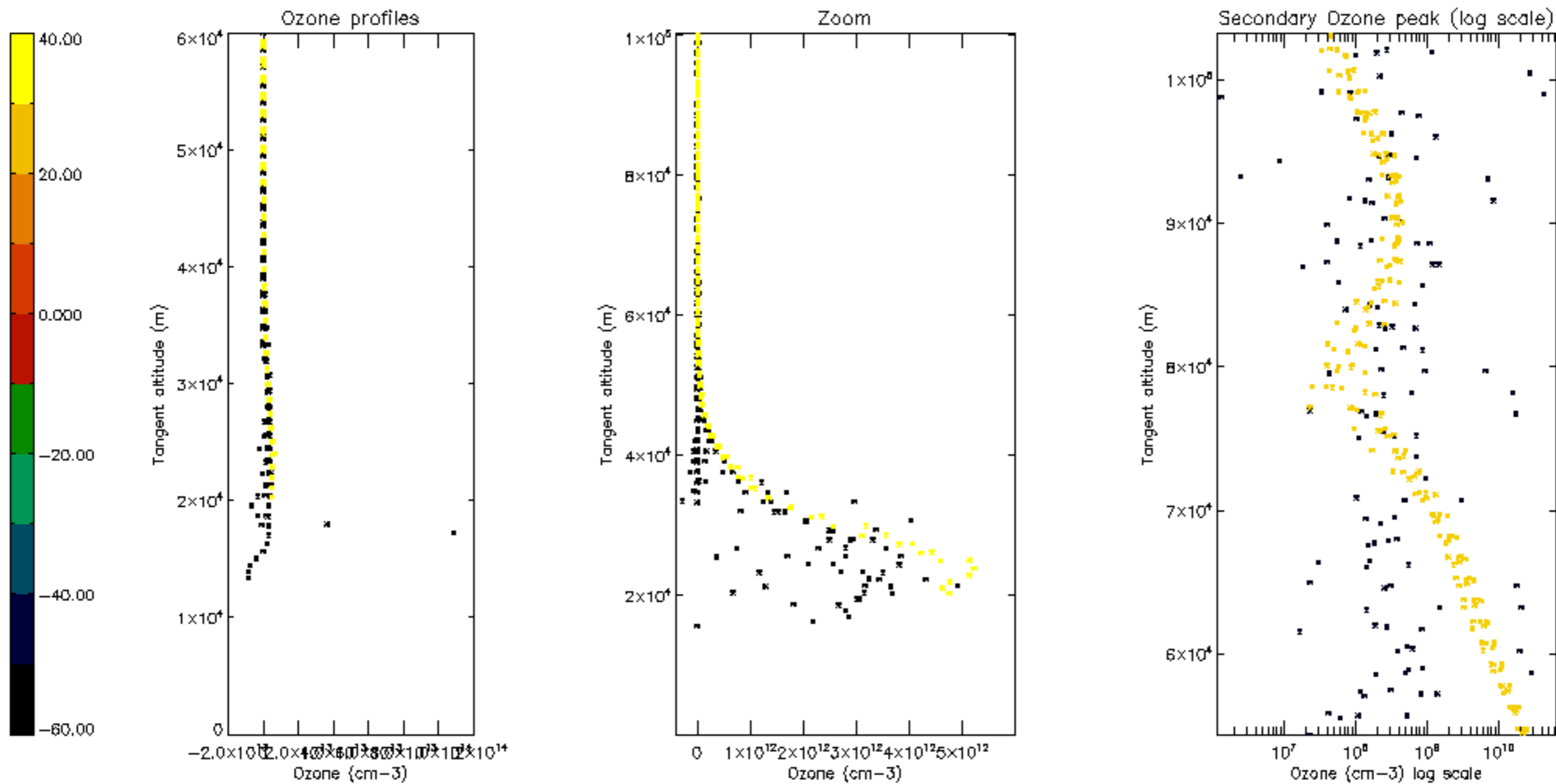


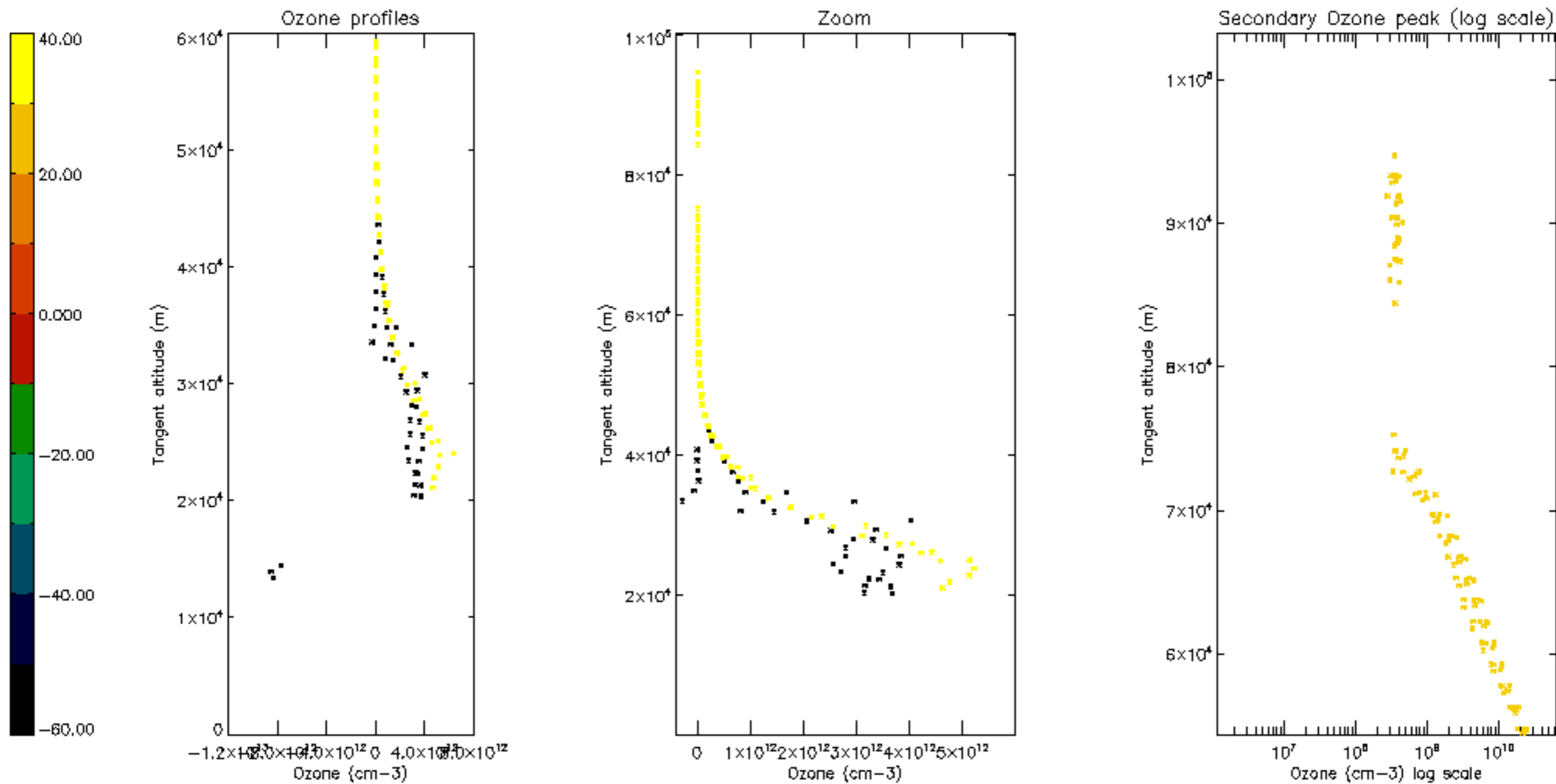
Percentage of star falling outside central band per profile

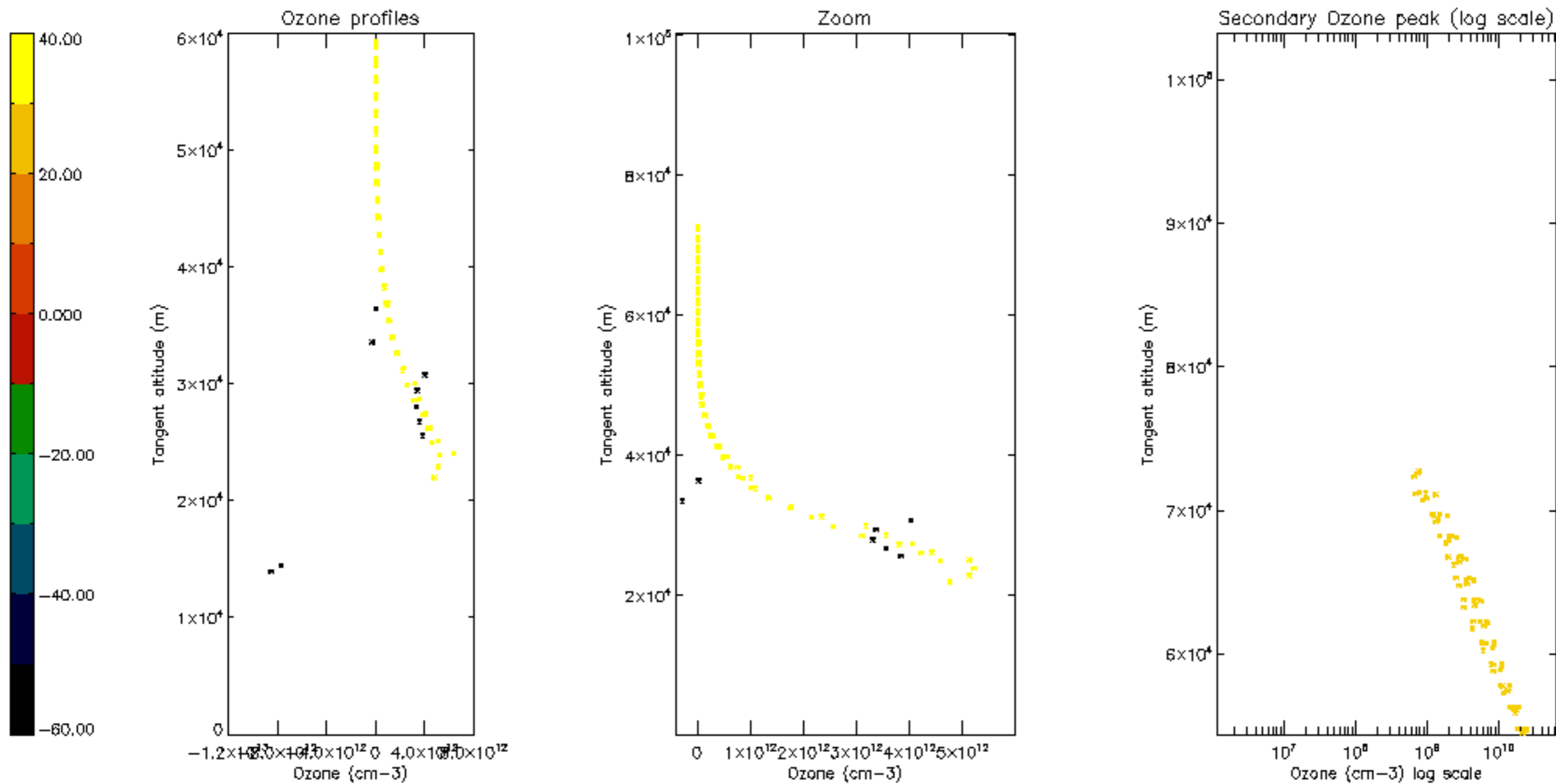


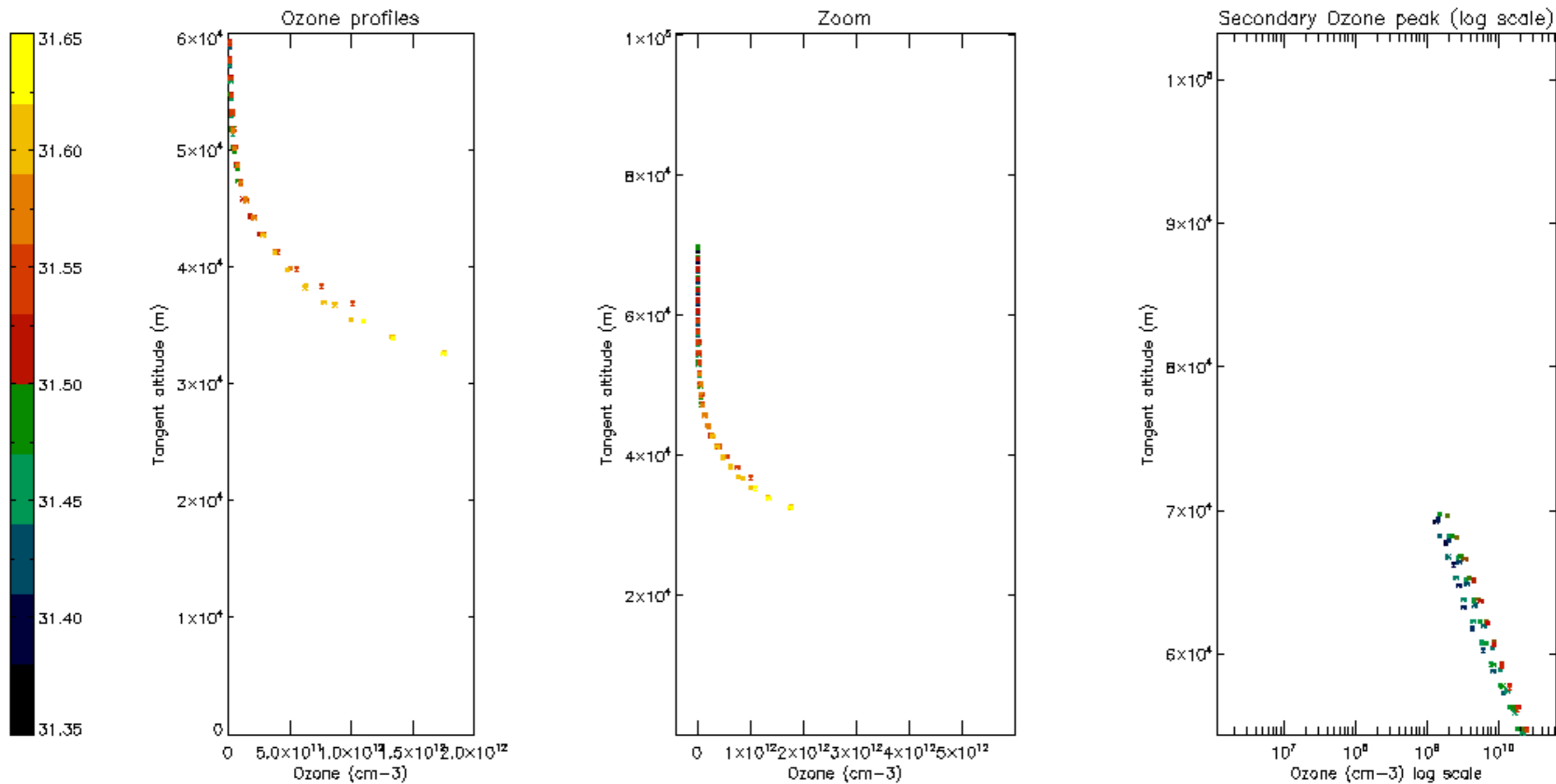
Percentage of saturation errors per profile

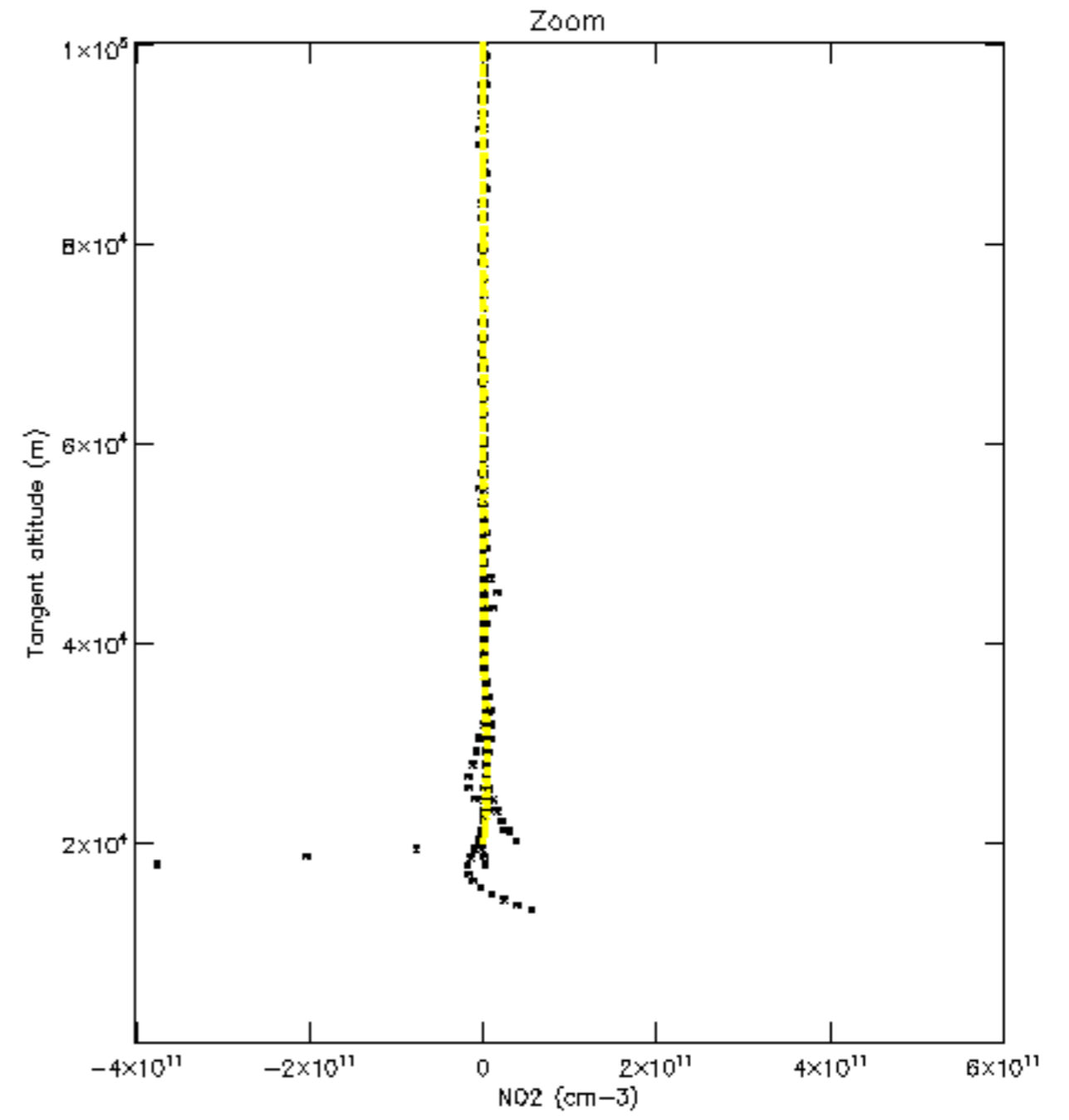
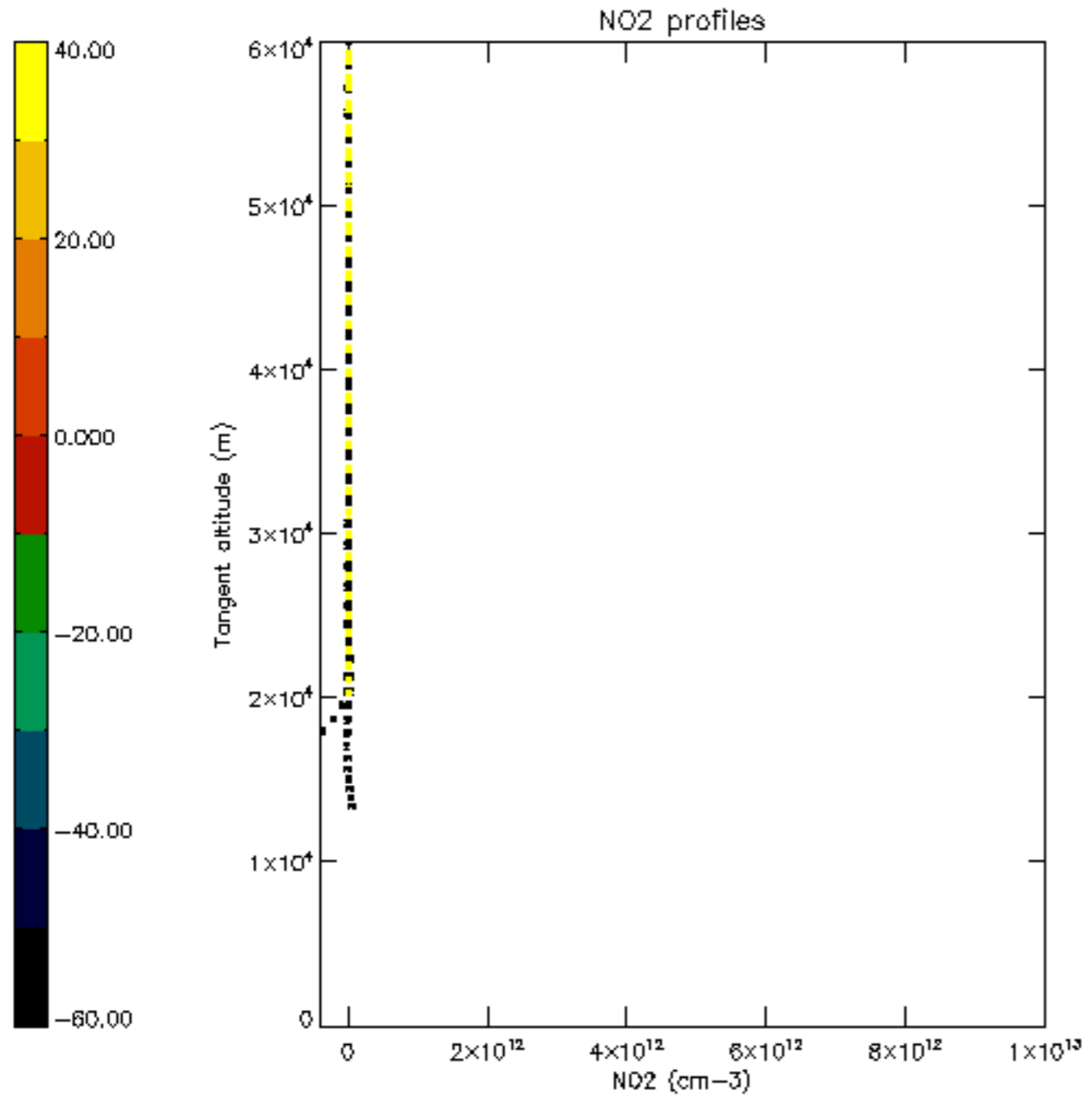


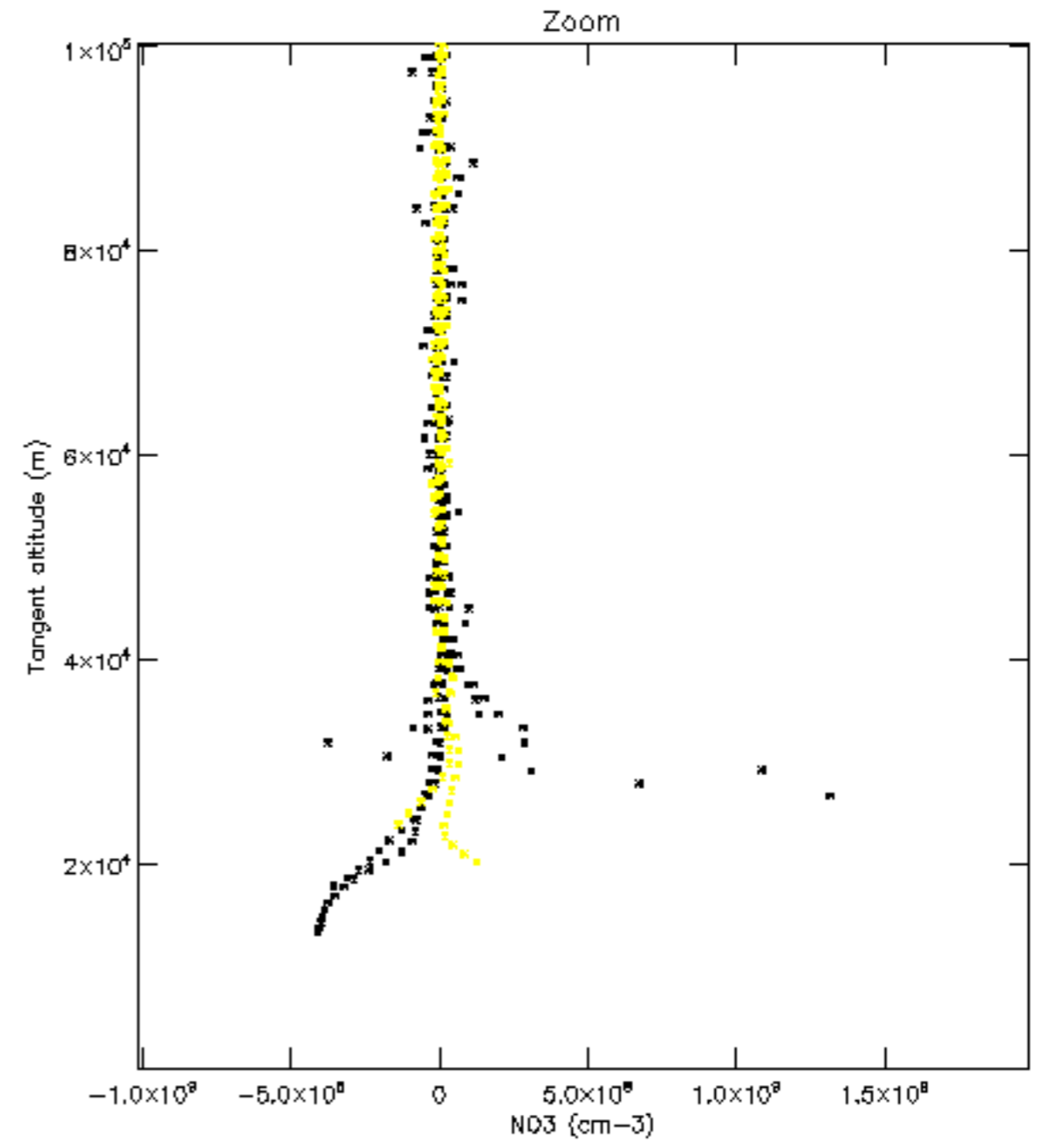
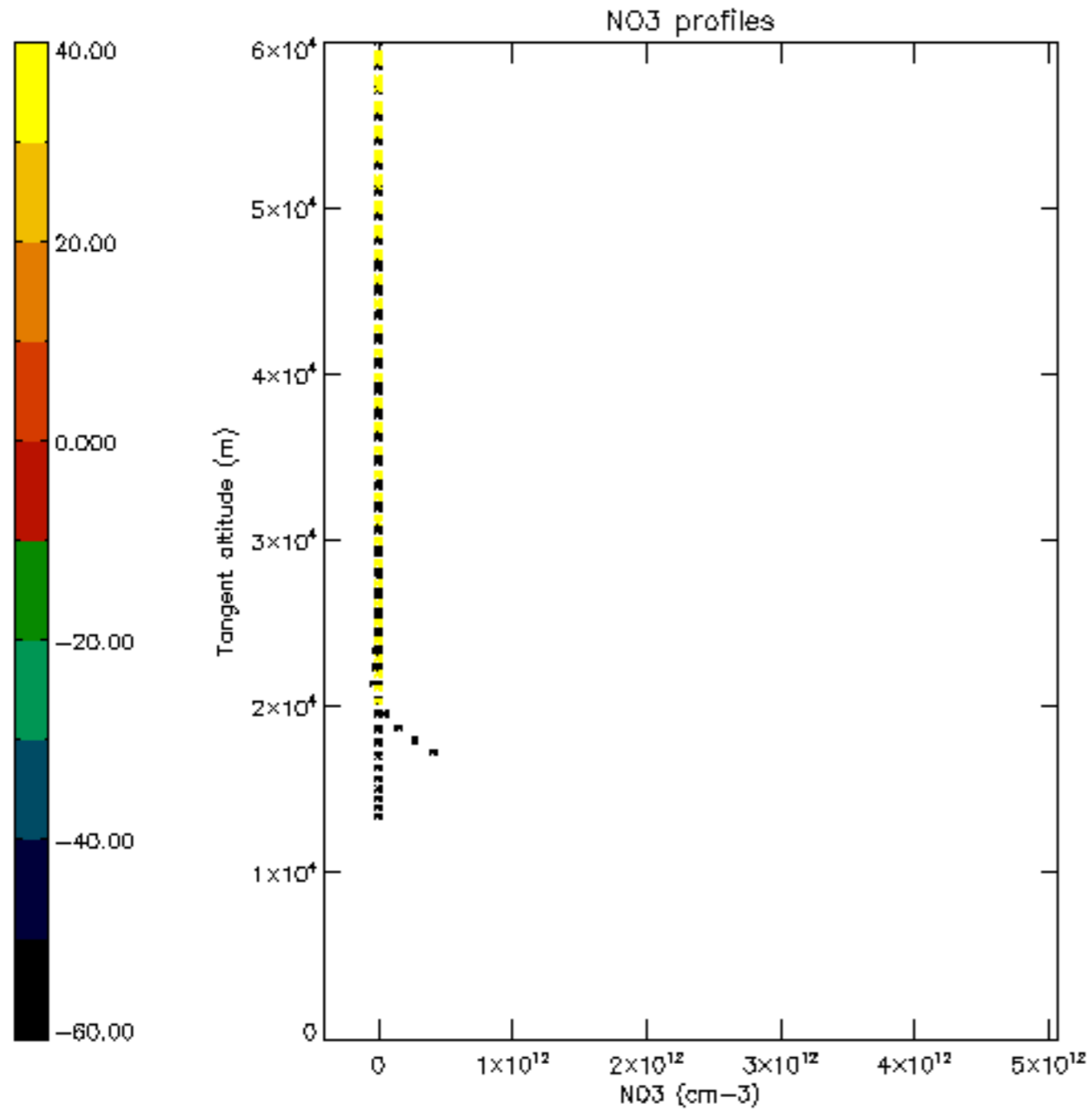


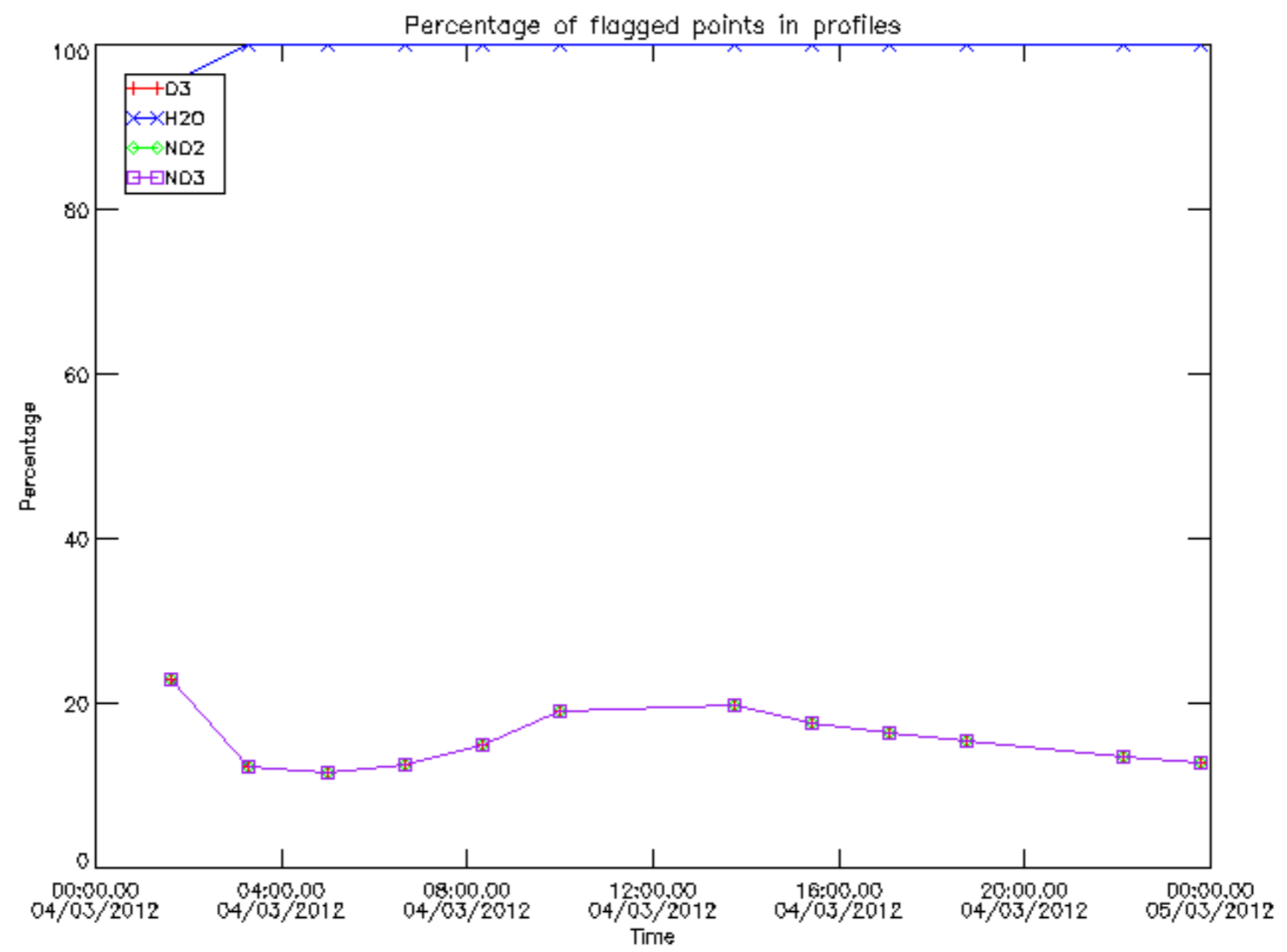




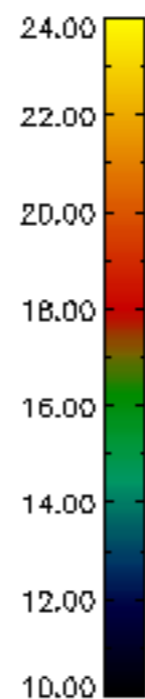
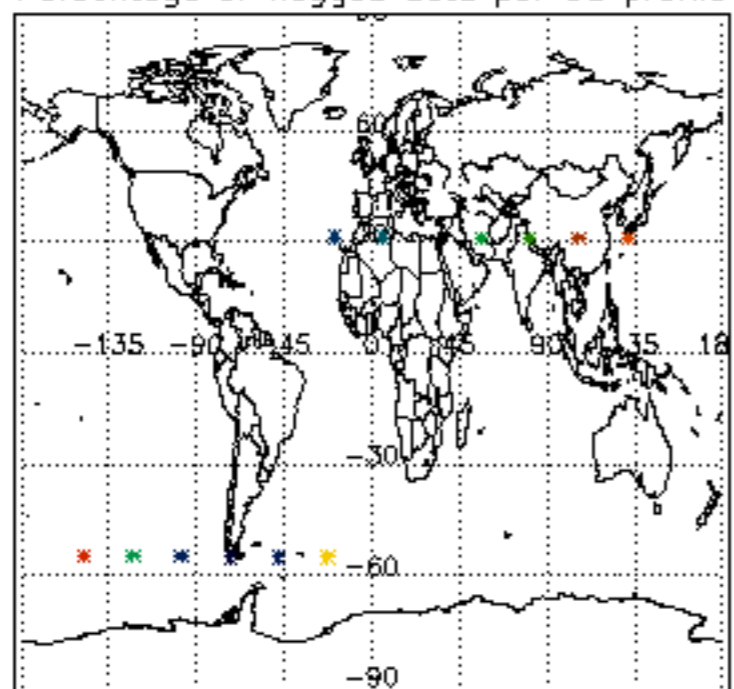




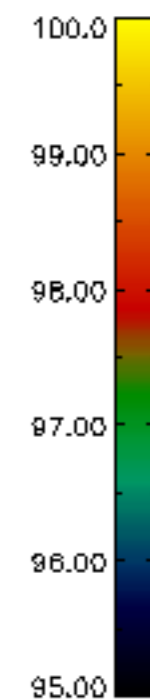
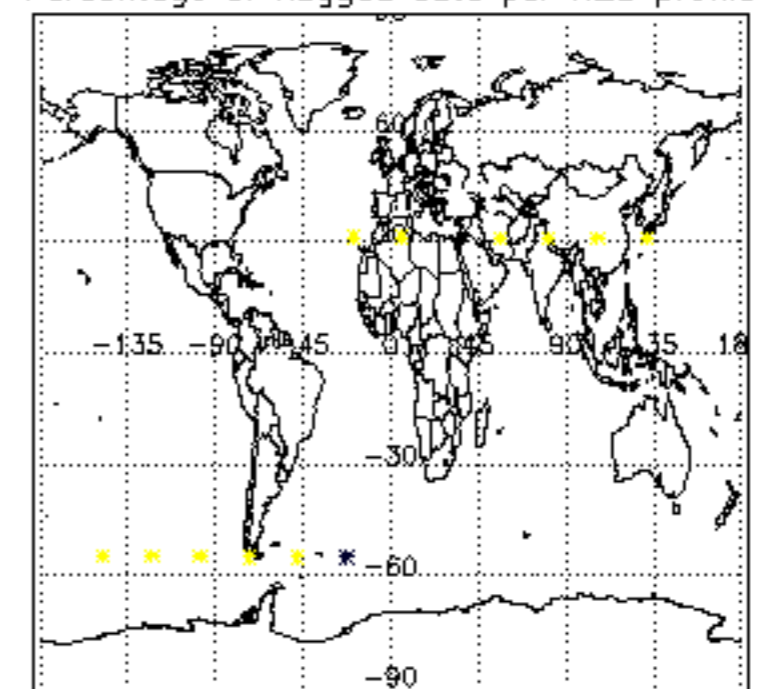




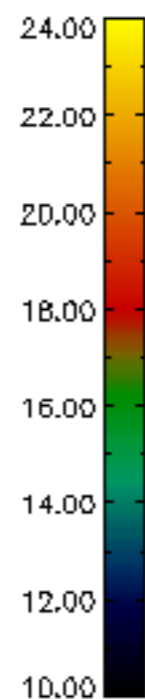
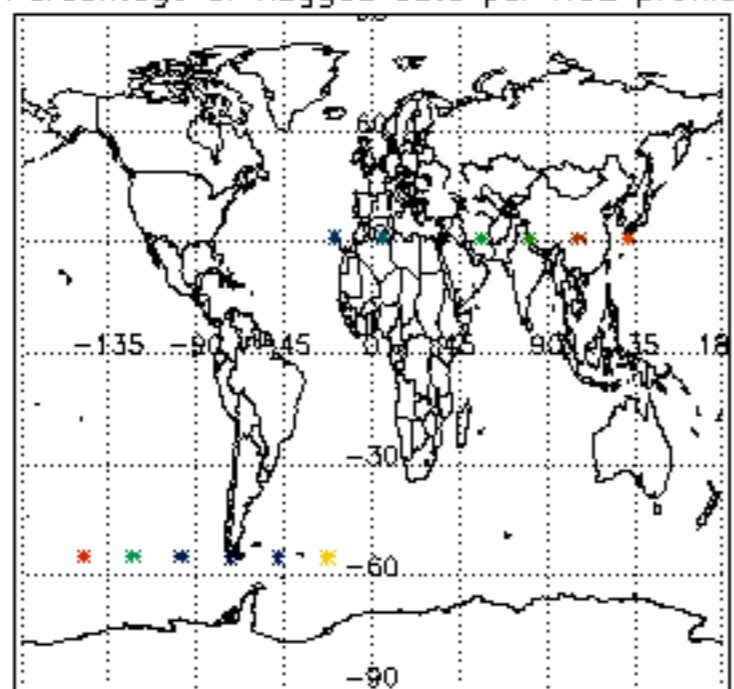
Percentage of flagged data per D3 profile



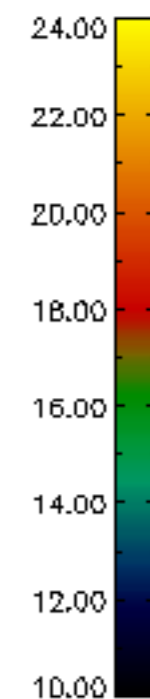
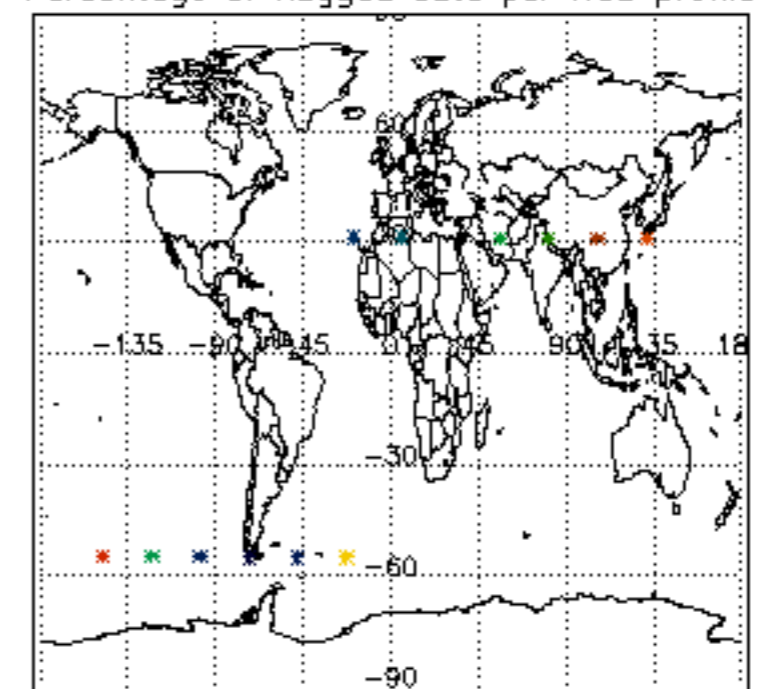
Percentage of flagged data per H2O profile

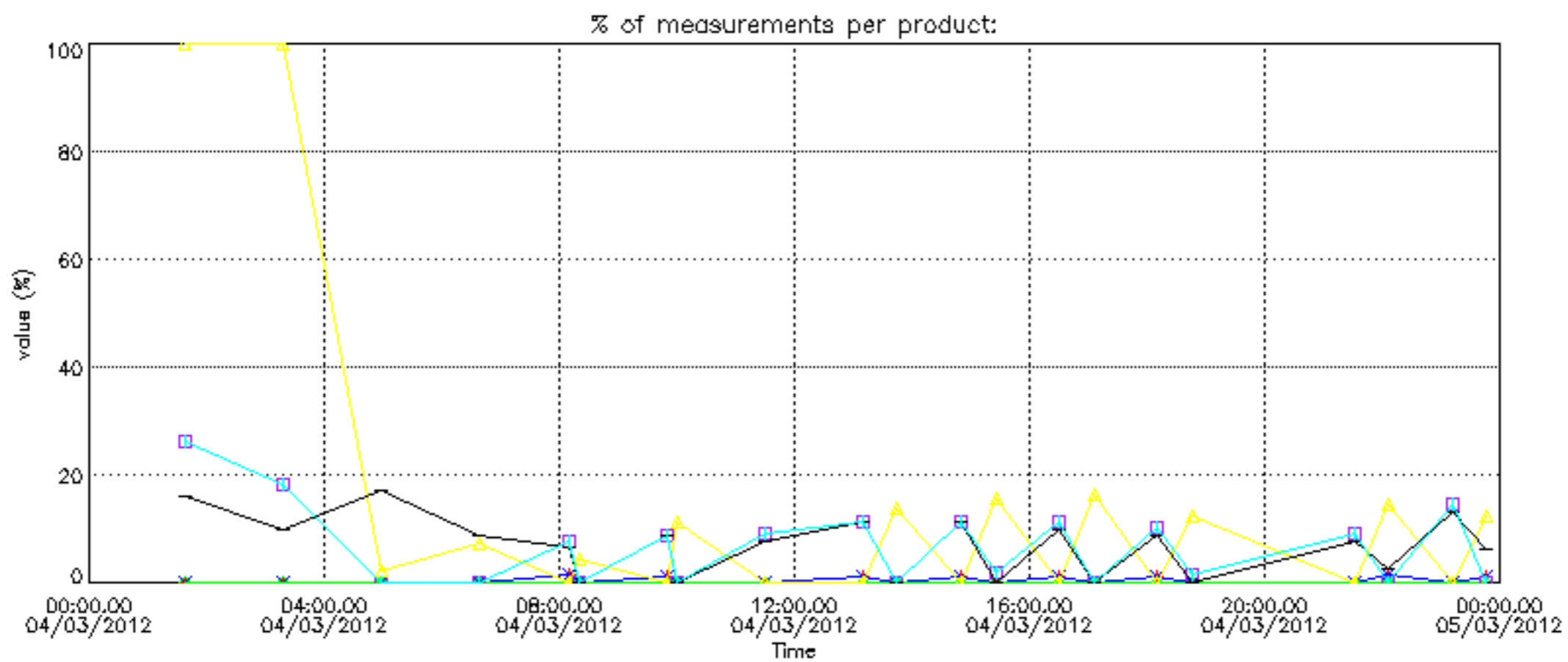


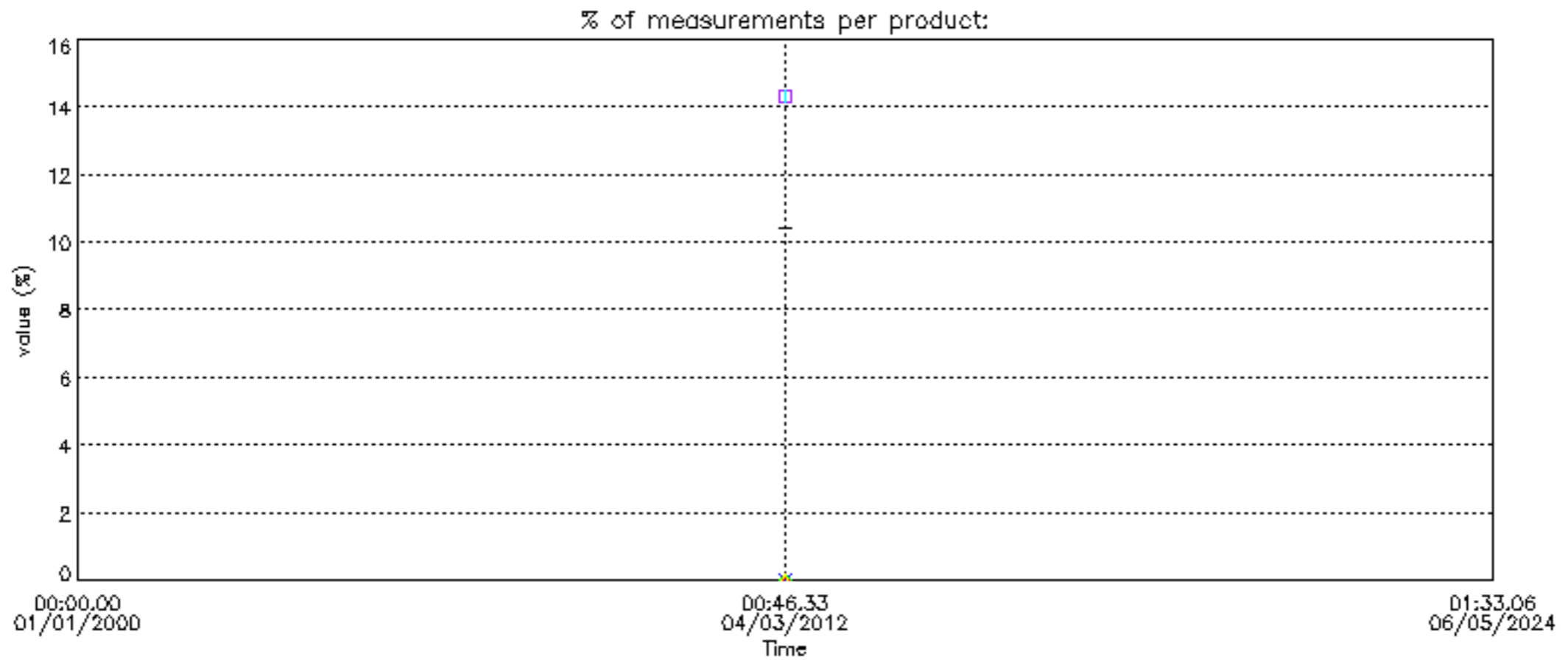
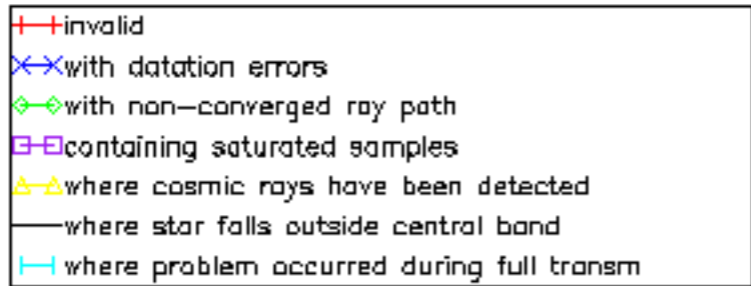
Percentage of flagged data per NO2 profile



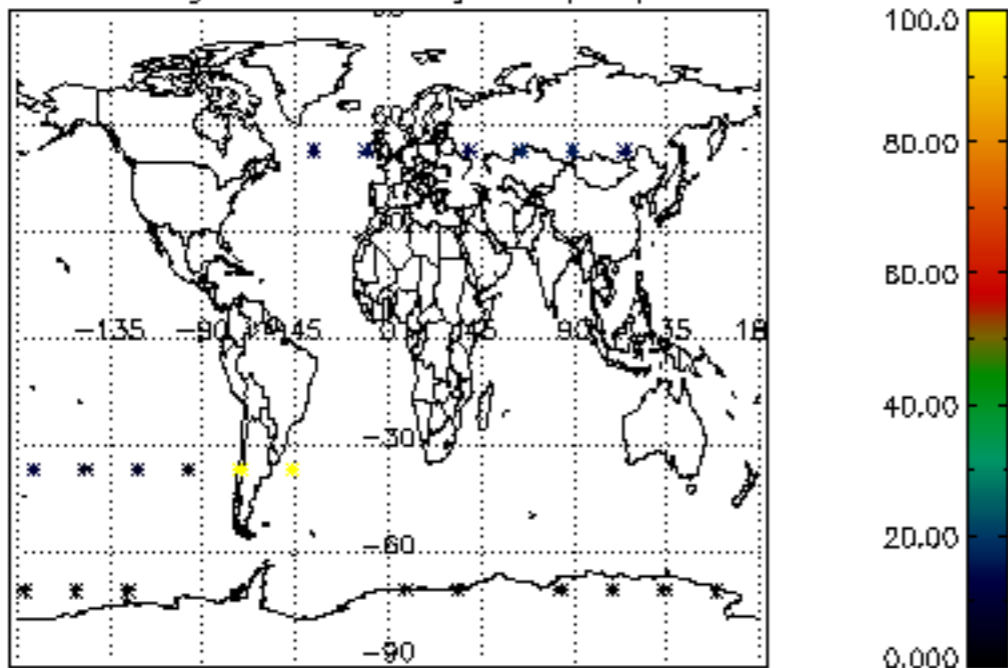
Percentage of flagged data per NO3 profile



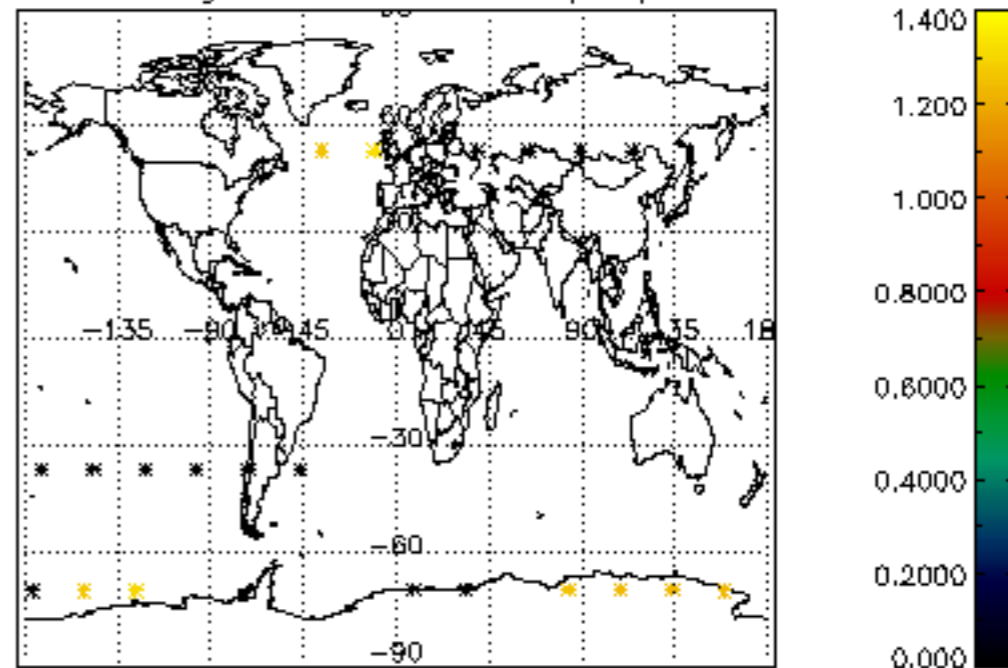




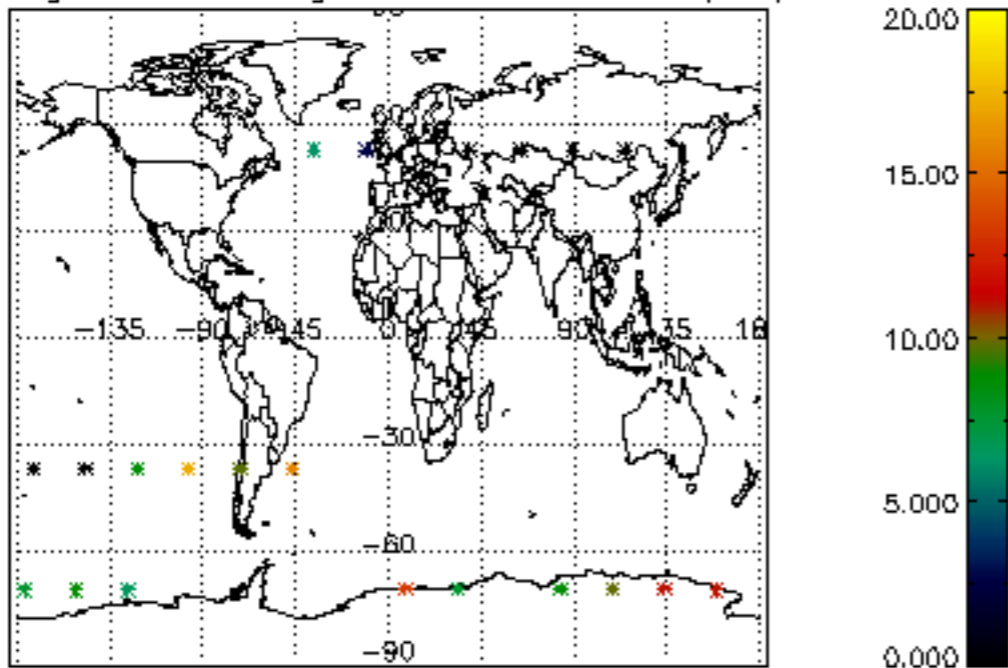
Percentage of cosmic ray hits per profile



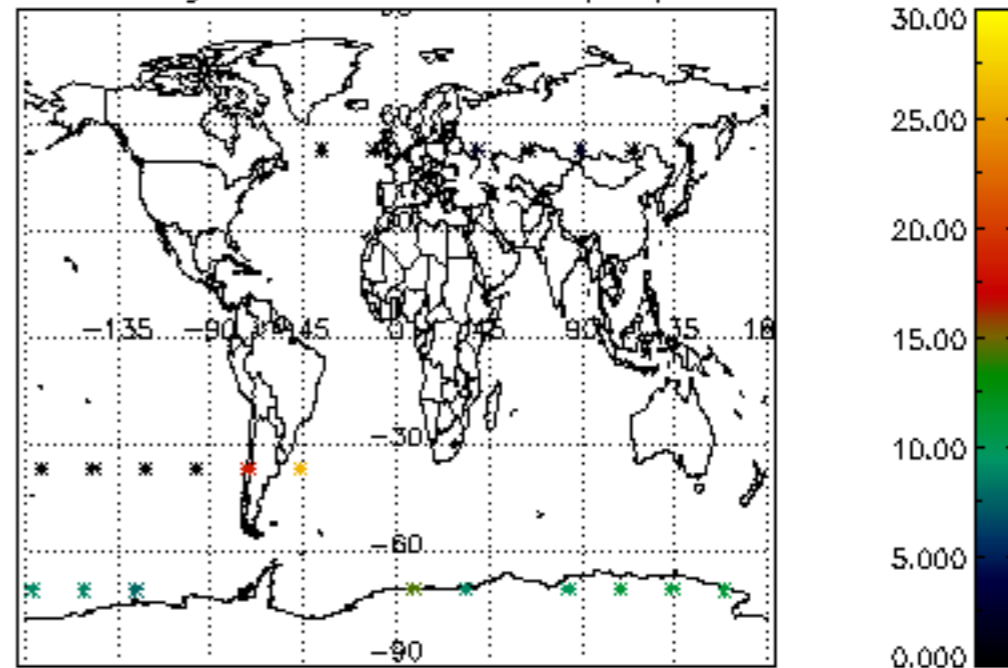
Percentage of datation errors per profile



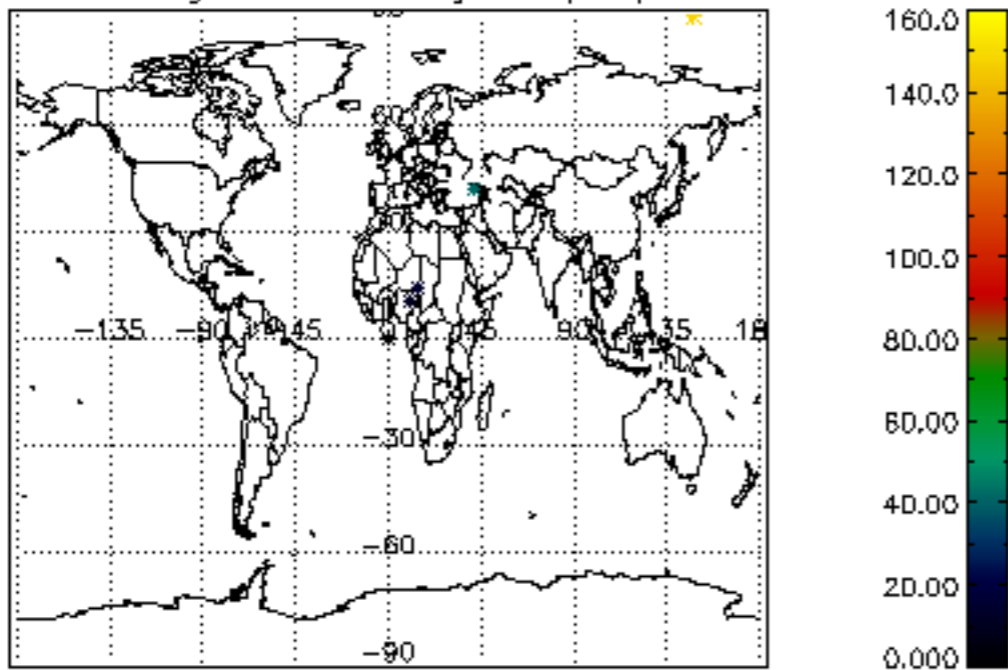
Percentage of star falling outside central band per profile



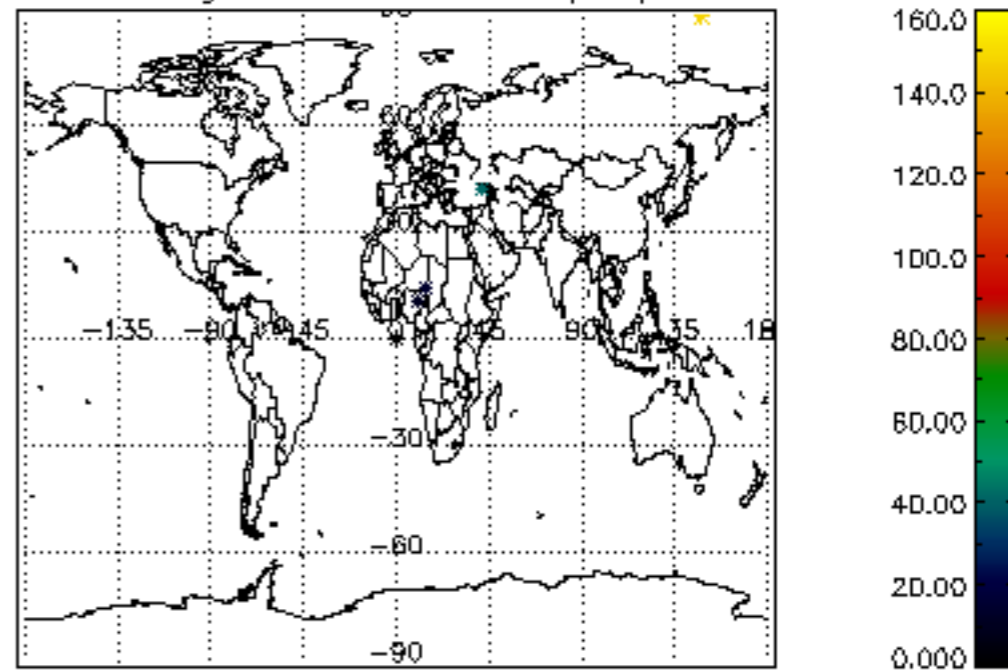
Percentage of saturation errors per profile



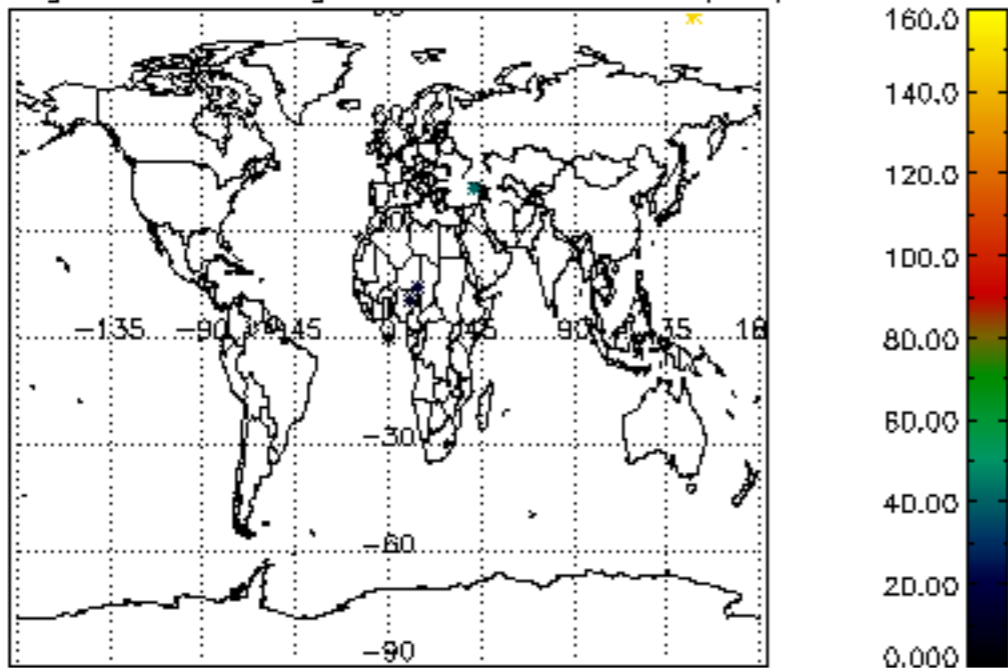
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

