

GOMOS Level 2 Daily Report

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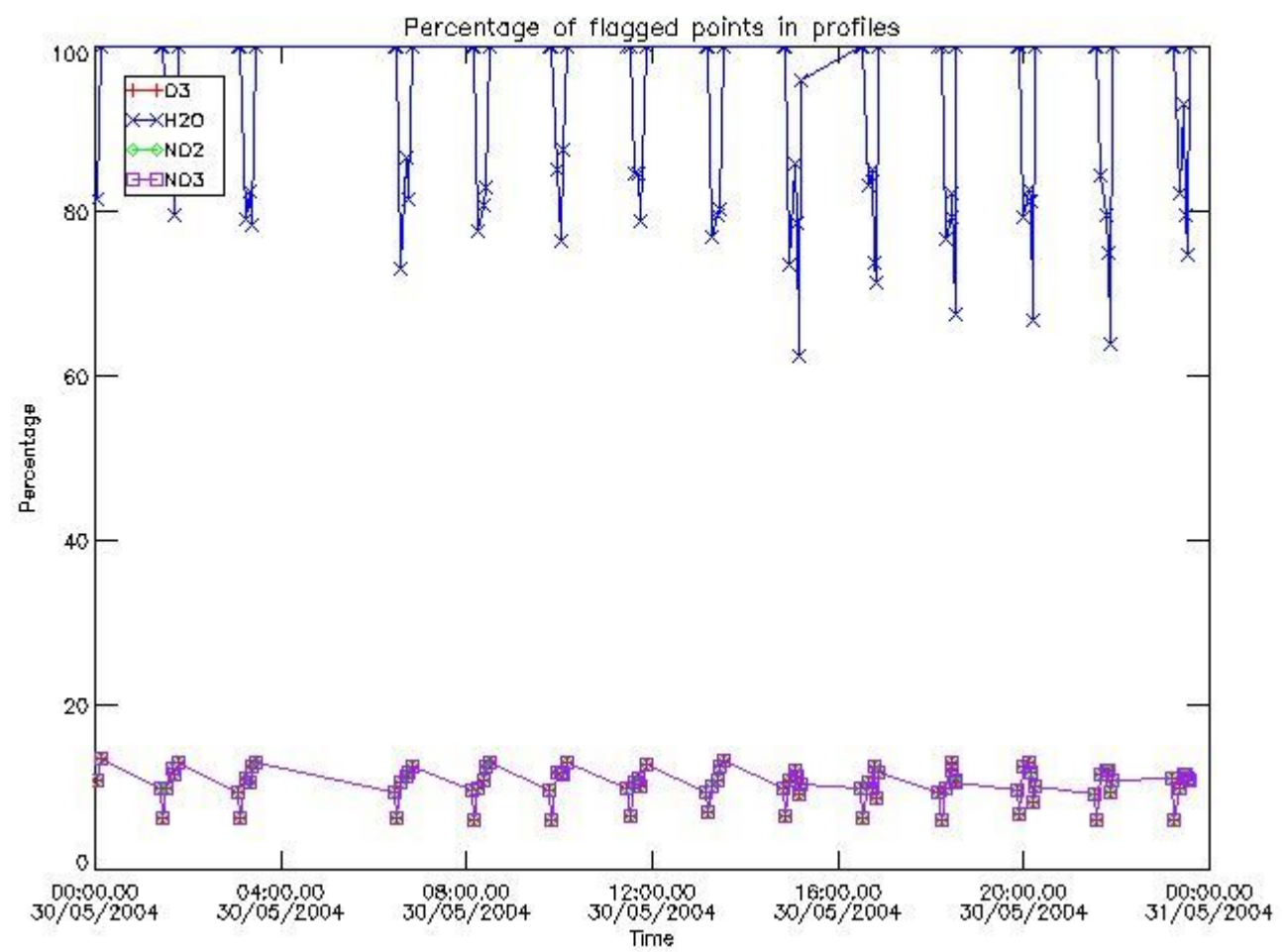
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397	GOM_NL__2PRFIN20040530_224349_000000392027_00187_11764_2968.N1	30-MAY-2004 22:43:49	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	11764	No
398	GOM_NL__2PRFIN20040530_224830_000000342027_00187_11764_2969.N1	30-MAY-2004 22:48:30	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	11764	No
399	GOM_NL__2PRFIN20040530_225138_000000482027_00187_11764_2970.N1	30-MAY-2004 22:51:38	Bright	48.000	89	5Alp Cep	2.4510	8000.0	96	11764	No
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402	GOM_NL__2PRFIN20040530_230656_000000572027_00187_11764_2973.N1	30-MAY-2004 23:06:56	Twilight	57.000	58	21Alp And	2.0730	11000.	114	11764	No
403	GOM_NL__2PRFIN20040530_231150_000000512027_00187_11764_2974.N1	30-MAY-2004 23:11:50	Dark	51.000	140	88Gam Peg	2.8340	26000.	102	11764	No
404	GOM_NL__2PRFIN20040530_231501_000000862027_00187_11764_2975.N1	30-MAY-2004 23:15:01	Dark	85.500	90	54Alp Peg	2.4870	11000.	171	11764	No
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406	GOM_NL__2PRFIN20040530_232731_000000442027_00187_11764_2977.N1	30-MAY-2004 23:27:31	Dark	44.000	84	Alp Phe	2.3970	4500.0	88	11764	No
407	GOM_NL__2PRFIN20040530_232946_000000452027_00187_11764_2978.N1	30-MAY-2004 23:29:46	Dark	44.500	9	Alp Eri	0.45300	24000.	89	11764	No
408	GOM_NL__2PRFIN20040530_233247_000000462027_00188_11765_2946.N1	30-MAY-2004 23:32:47	Dark	46.000	63	Bet Gru	2.1500	2800.0	92	11765	No
409	GOM_NL__2PRFIN20040530_233439_000000482027_00188_11765_2947.N1	30-MAY-2004 23:34:39	Dark	47.500	31	Alp Gru	1.7340	15200.	95	11765	No
410	GOM_NL__2PRFIN20040530_233940_000000452027_00188_11765_2948.N1	30-MAY-2004 23:39:40	Straylight	45.000	45	Alp Pav	1.9400	26000.	90	11765	No
411	GOM_NL__2PRFIN20040530_234323_000000422027_00188_11765_2949.N1	30-MAY-2004 23:43:23	Straylight	41.500	43	Alp TrA	1.9100	4250.0	83	11765	No
412	GOM_NL__2PRFIN20040530_234525_000000432027_00188_11765_2950.N1	30-MAY-2004 23:45:25	Straylight	42.500	134	Bet TrA	2.8100	6600.0	85	11765	No
413	GOM_NL__2PRFIN20040530_234710_000000432027_00188_11765_2951.N1	30-MAY-2004 23:47:10	Straylight	42.500	147	Alp Ara	2.8770	26000.	85	11765	No
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415	GOM_NL__2PRFIN20040530_235038_000000482027_00188_11765_2953.N1	30-MAY-2004 23:50:38	Twilight	48.000	25	35Lam Sco	1.6200	28000.	96	11765	No
416	GOM_NL__2PRFIN20040530_235226_000000462027_00188_11765_2954.N1	30-MAY-2004 23:52:26	Twilight	46.000	75	26Eps Sco	2.2910	4250.0	92	11765	No
417	GOM_NL__2PRFIN20040530_235429_000000442027_00188_11765_2955.N1	30-MAY-2004 23:54:29	Bright	44.000	136	23Tau Sco	2.8220	30000.	88	11765	No
418	GOM_NL__2PRFIN20040530_235635_000000422027_00188_11765_2956.N1	30-MAY-2004 23:56:35	Bright	42.000	80	7Del Sco	2.3160	30000.	84	11765	No
419	GOM_NL__2PRFIN20040530_235809_000000492027_00188_11765_2957.N1	30-MAY-2004 23:58:09	Bright	48.500	86	35Eta Oph	2.4300	10200.	97	11765	No

3. Quality information per product

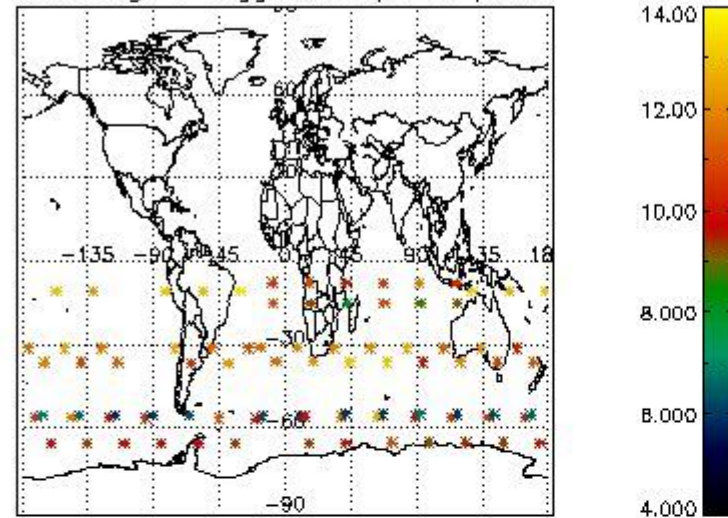
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

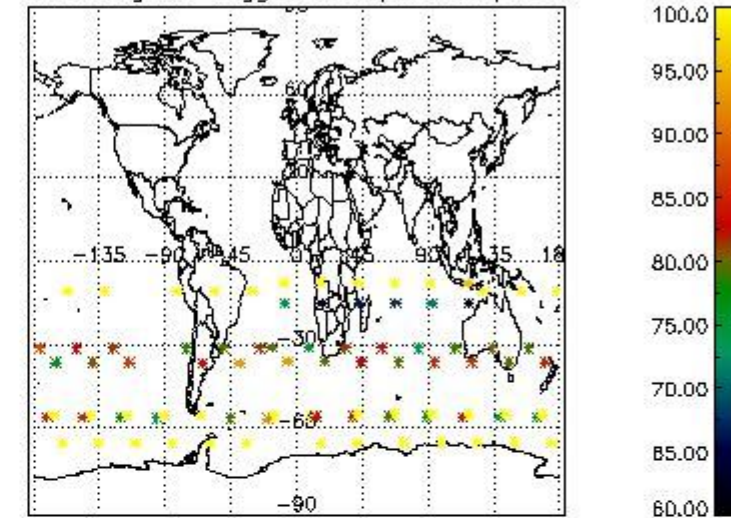


3.2 Plot quality information per product (world map)

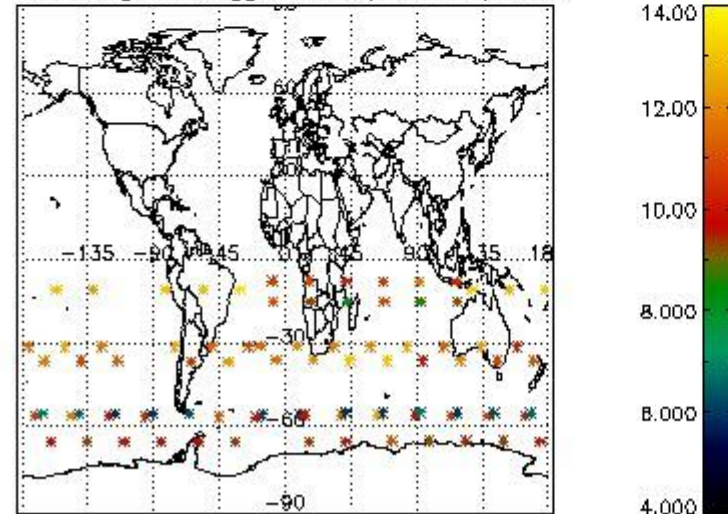
Percentage of flagged data per O3 profile



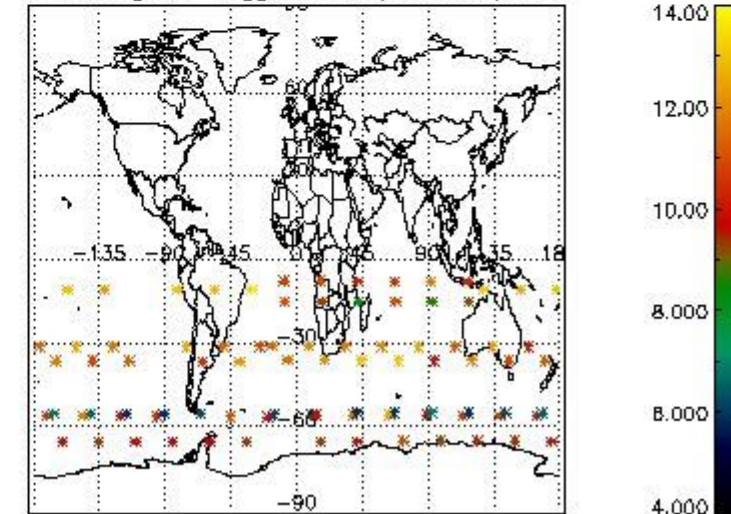
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

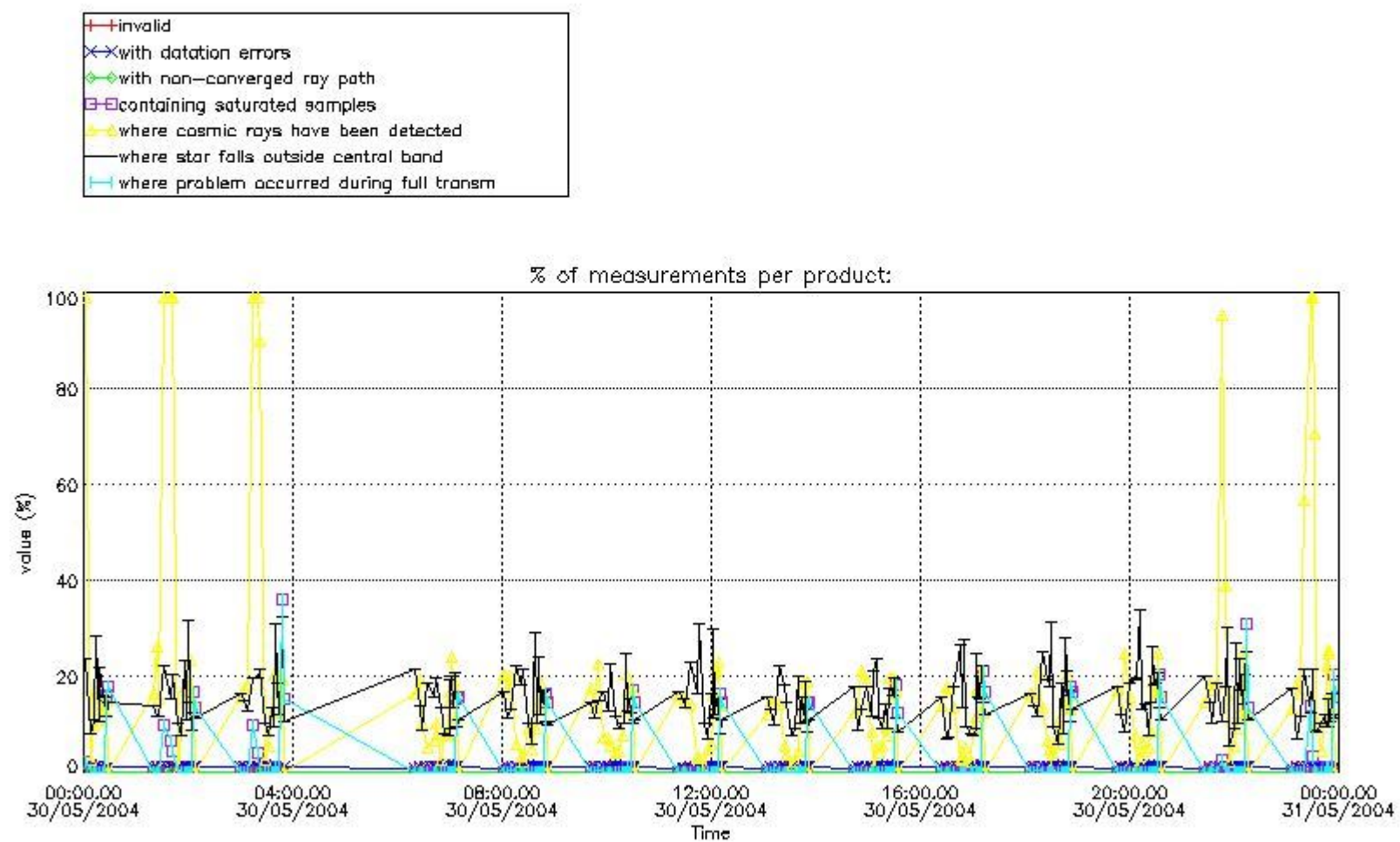


4. Level 1 quality information per product

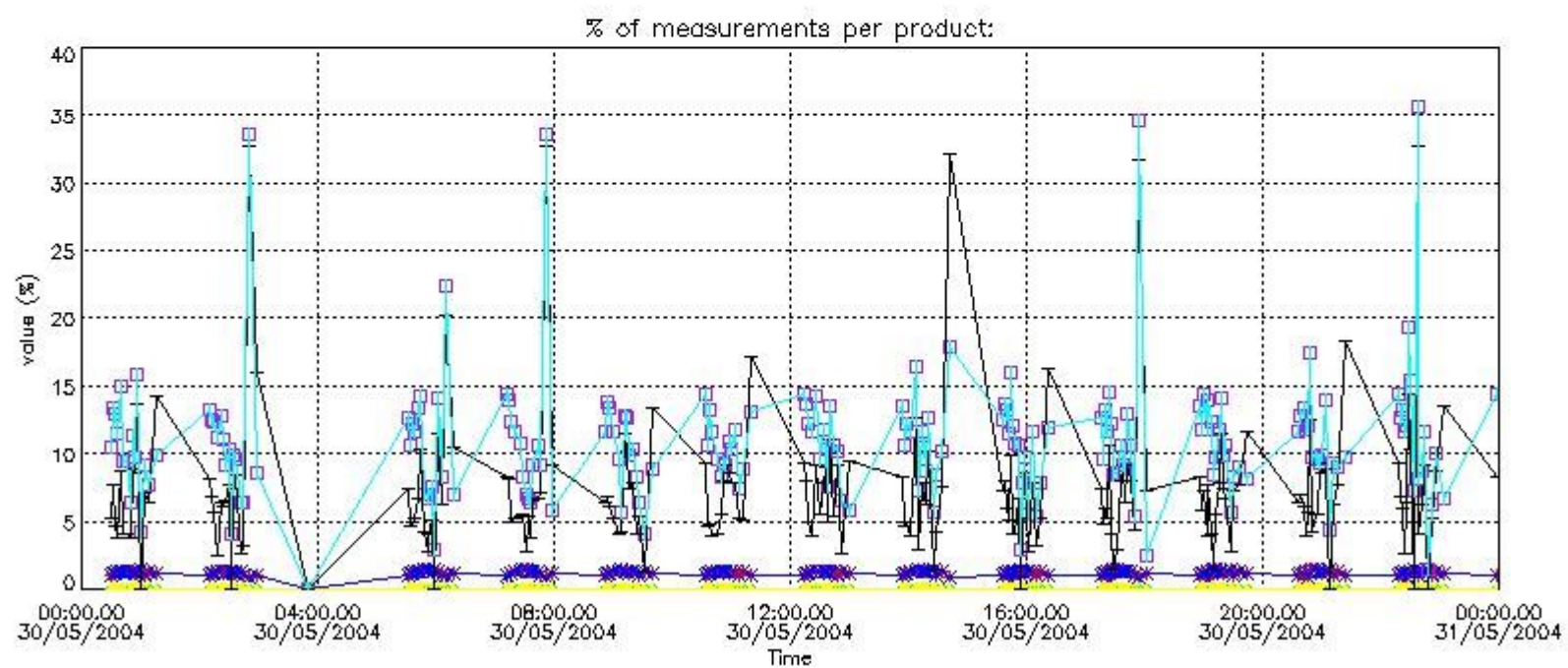
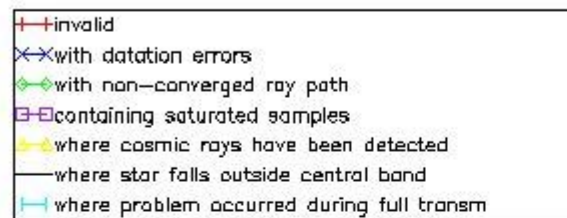
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

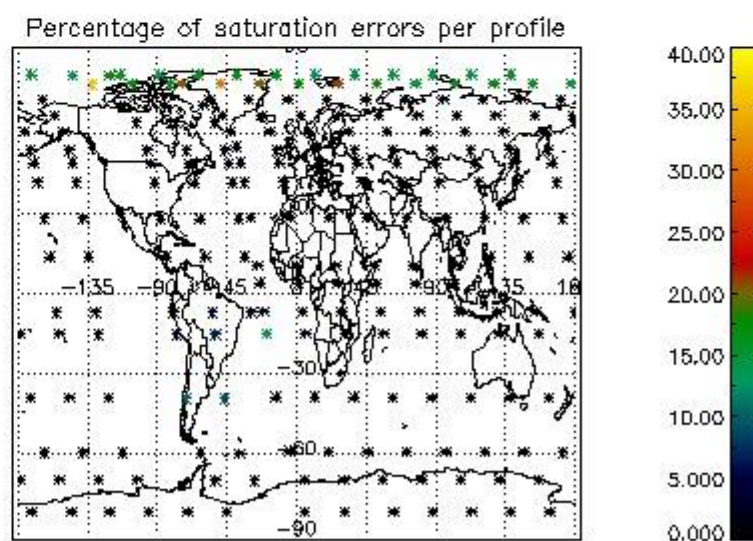
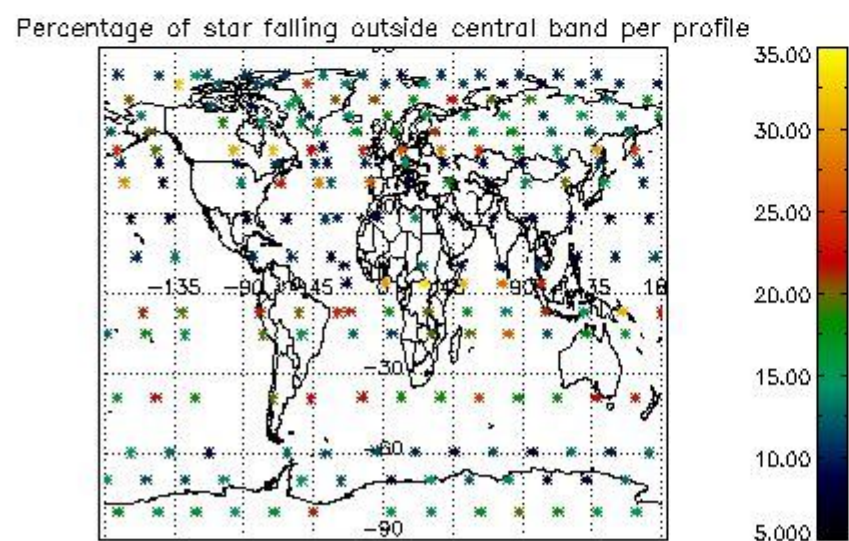
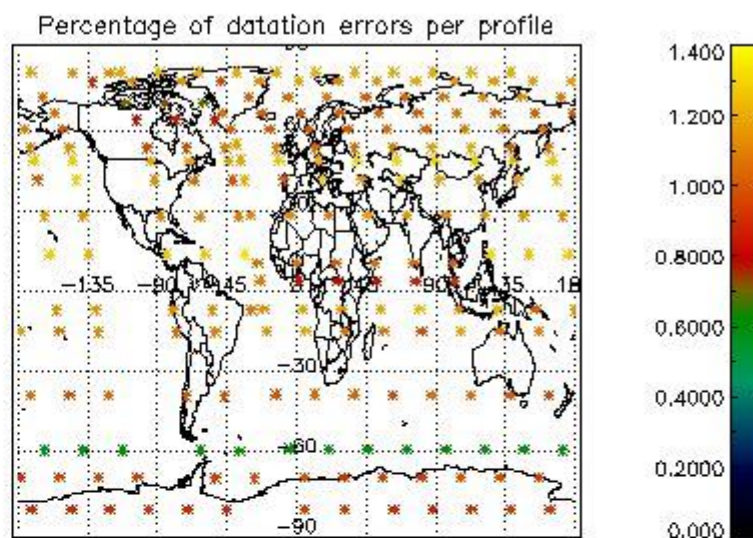
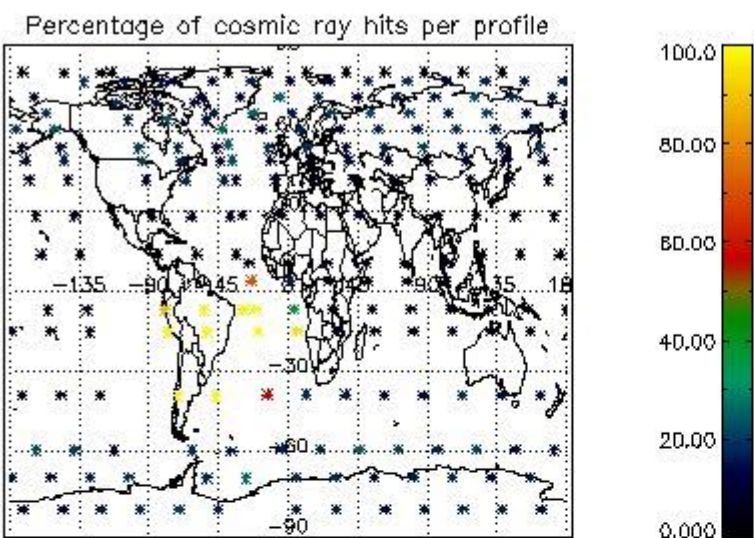


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

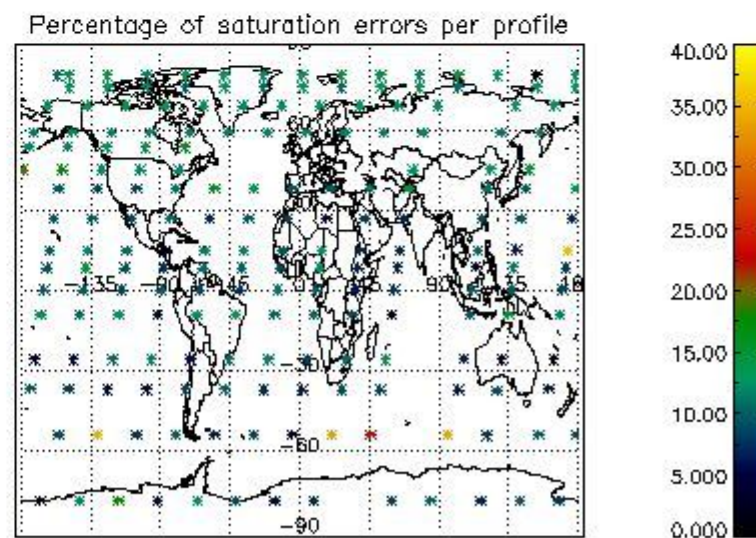
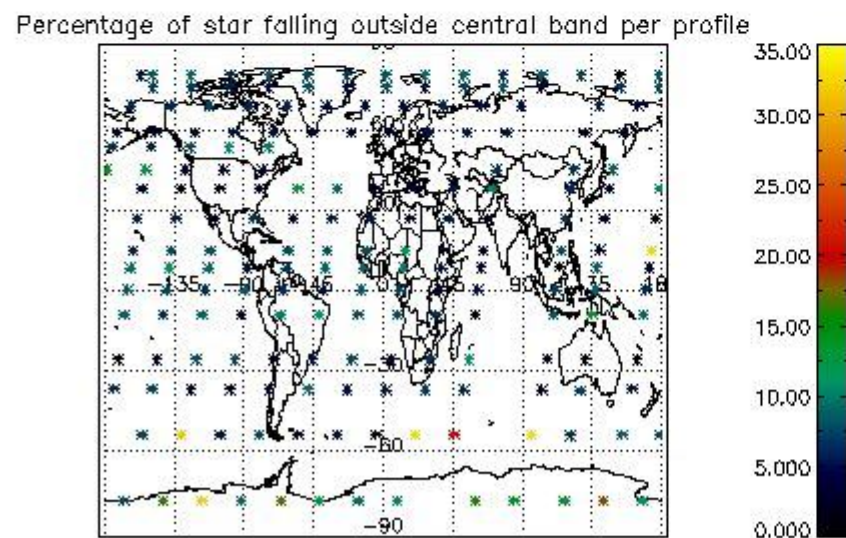
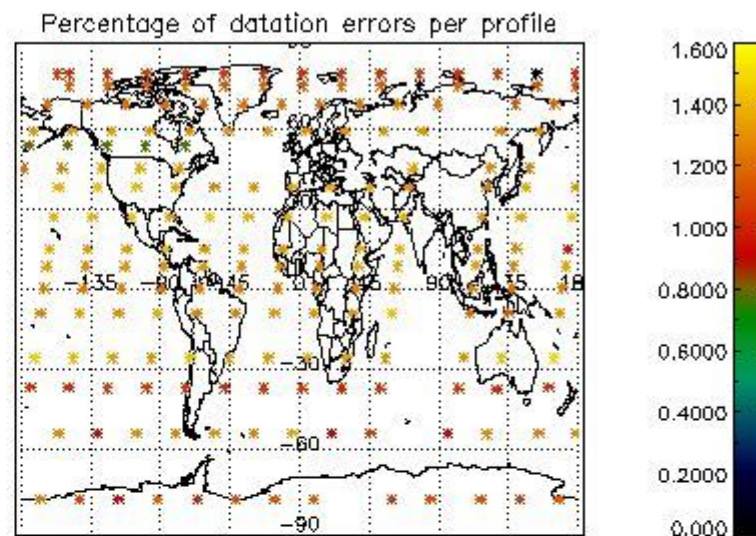
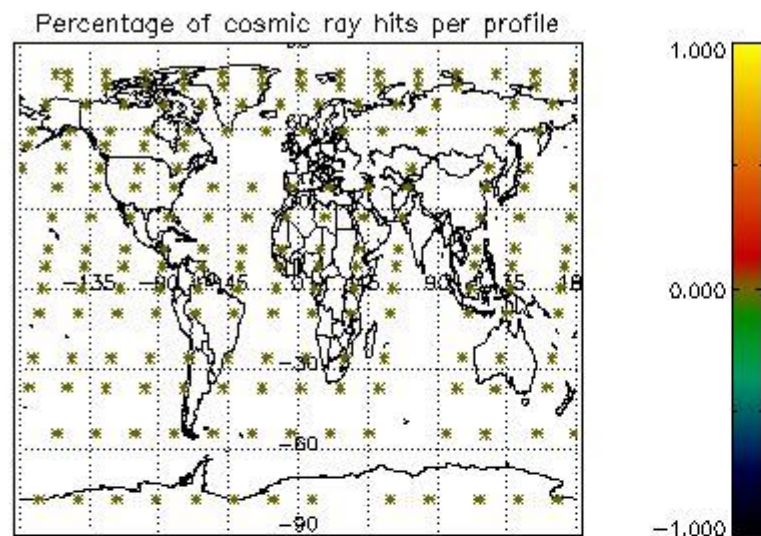


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

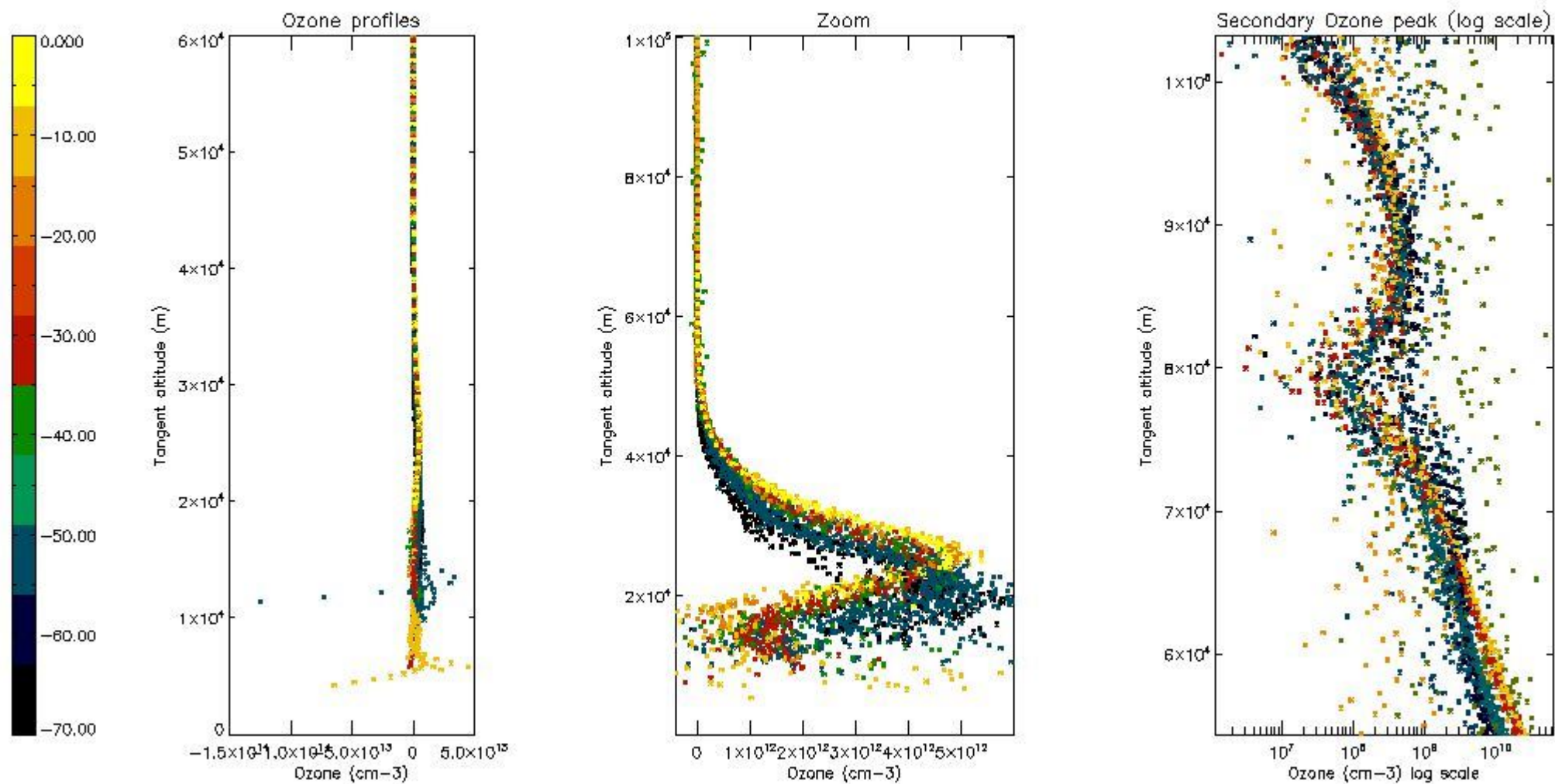
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	25
STD < 20	13

STD < 10	11
STD < 5	8

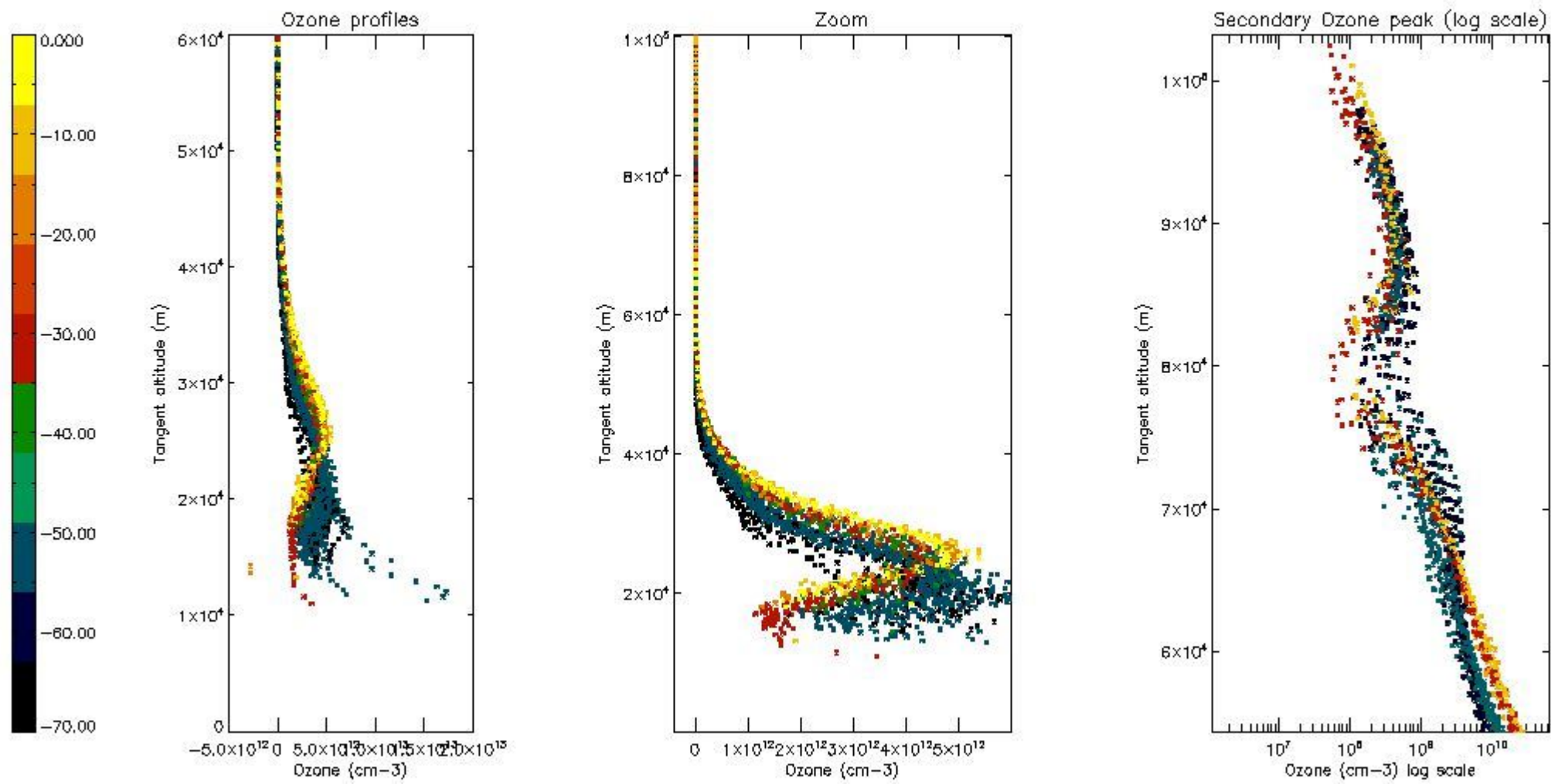
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



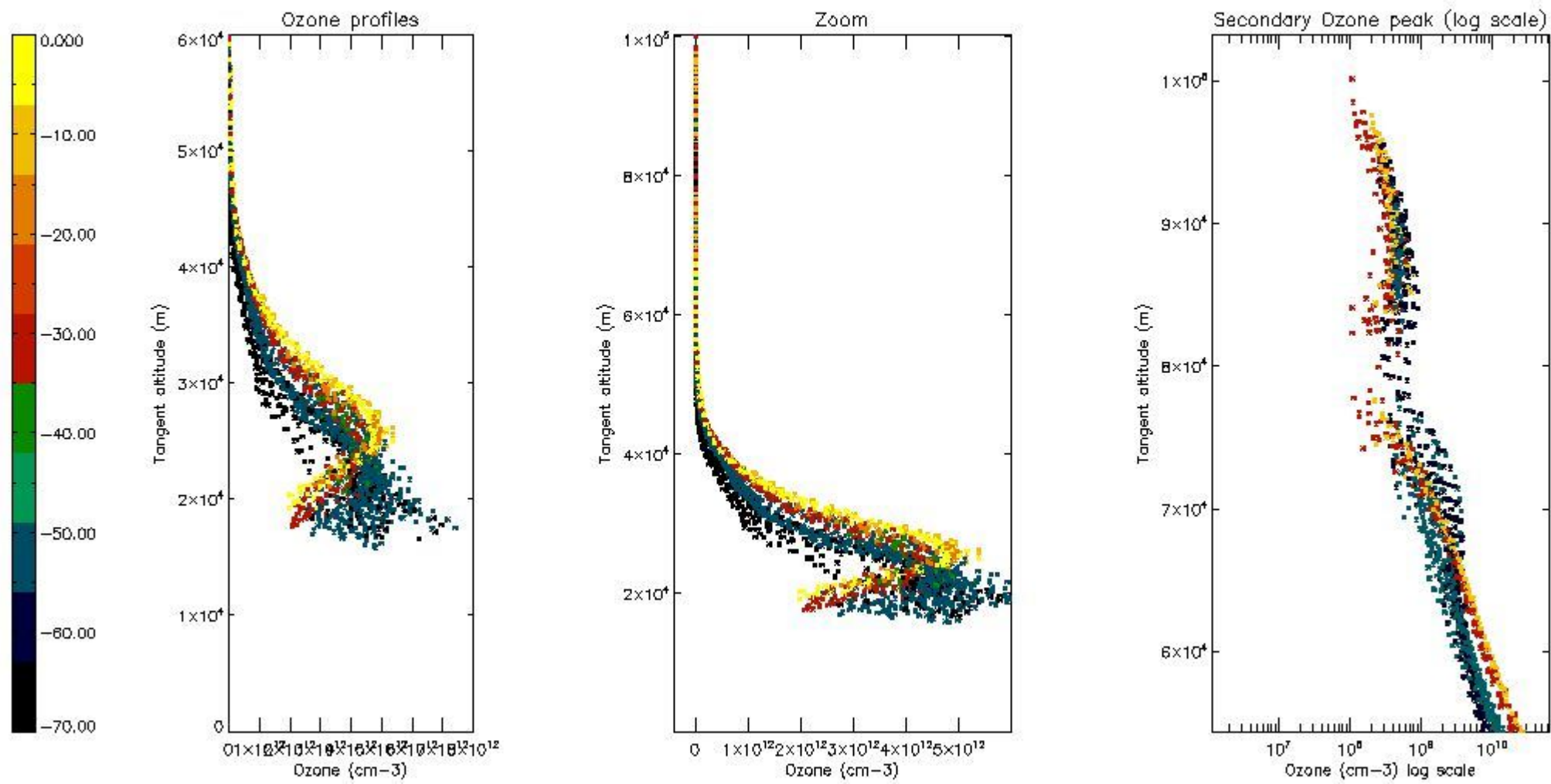
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



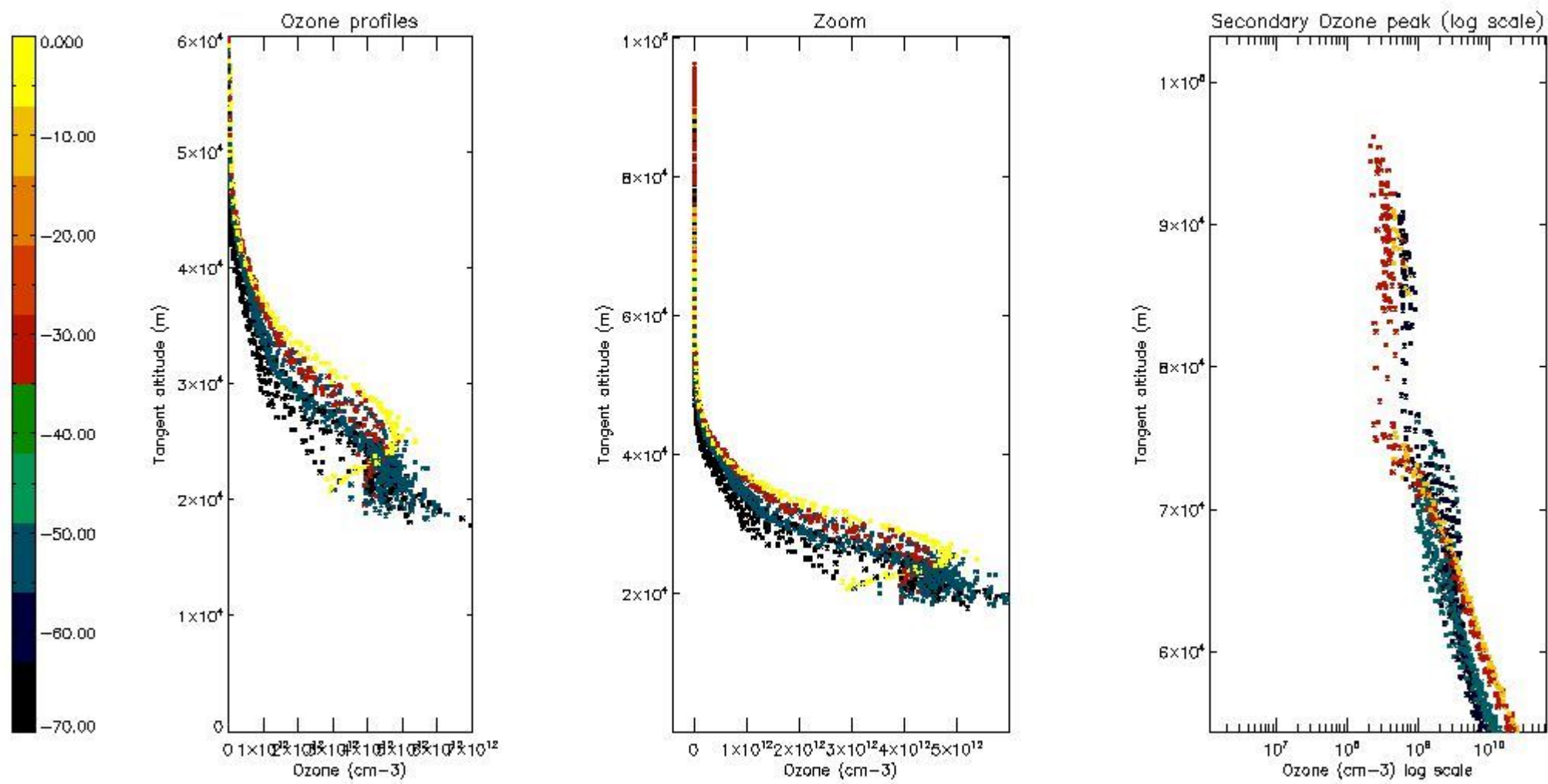
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



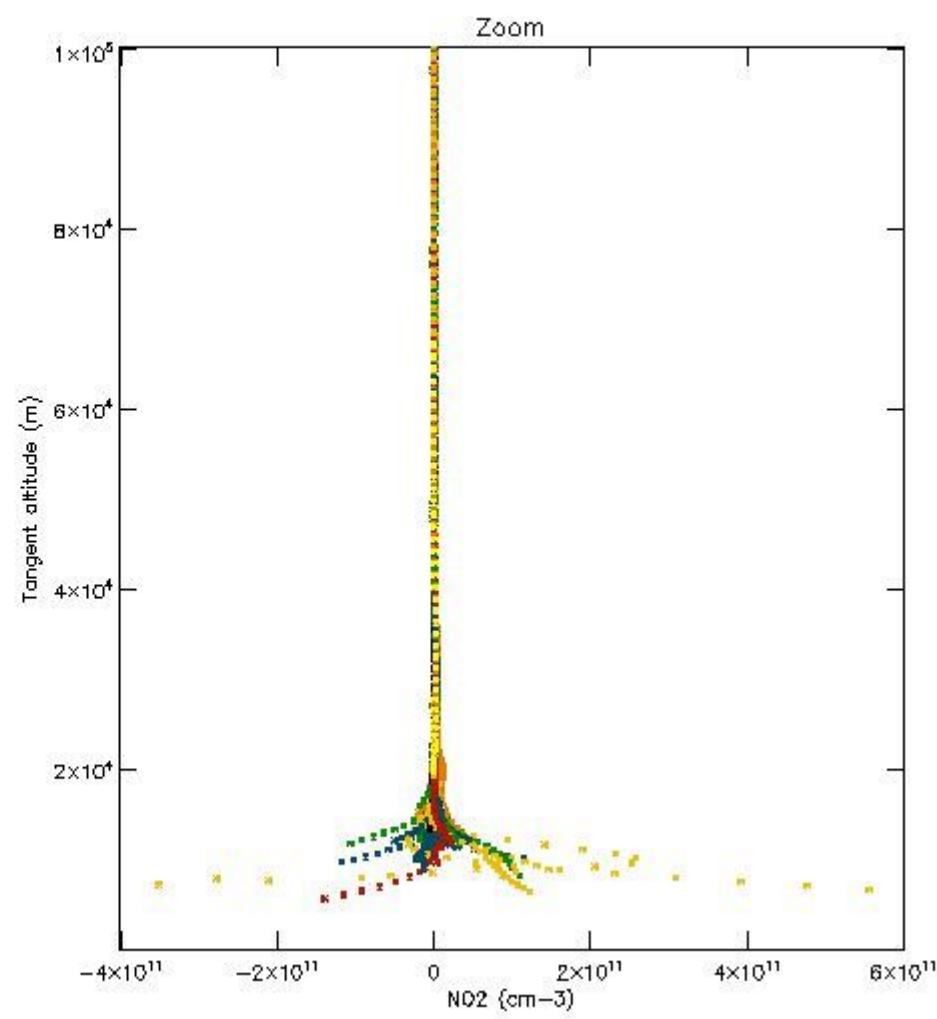
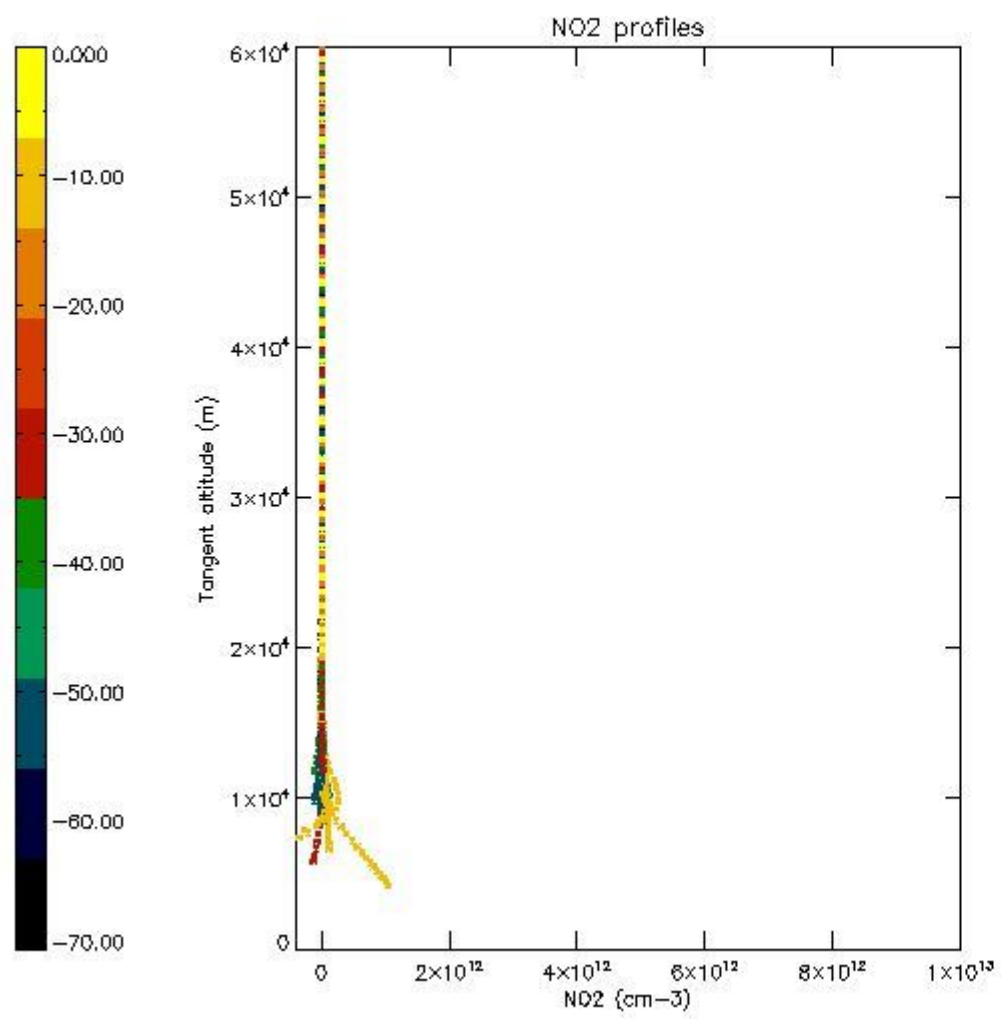
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



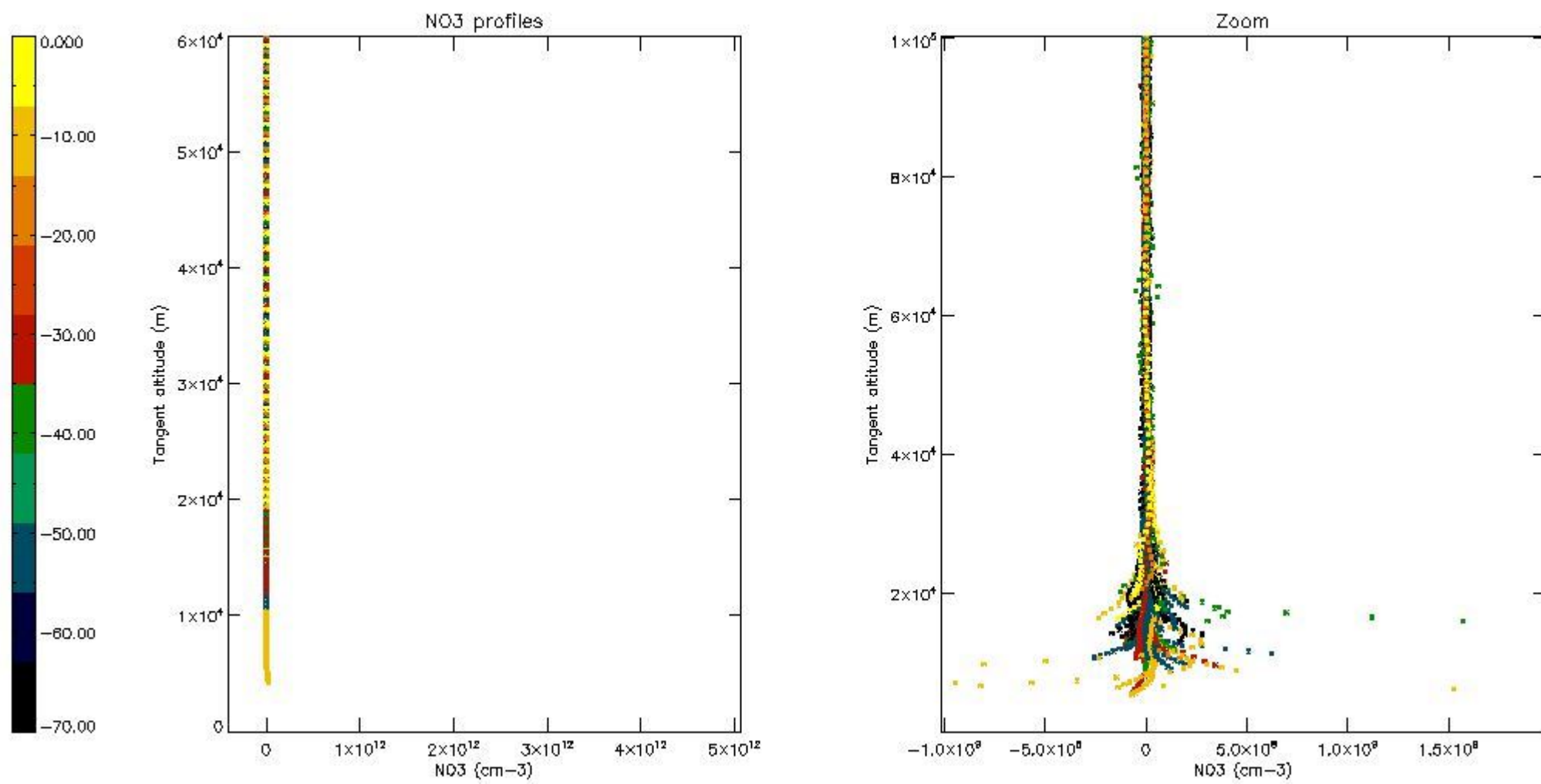
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



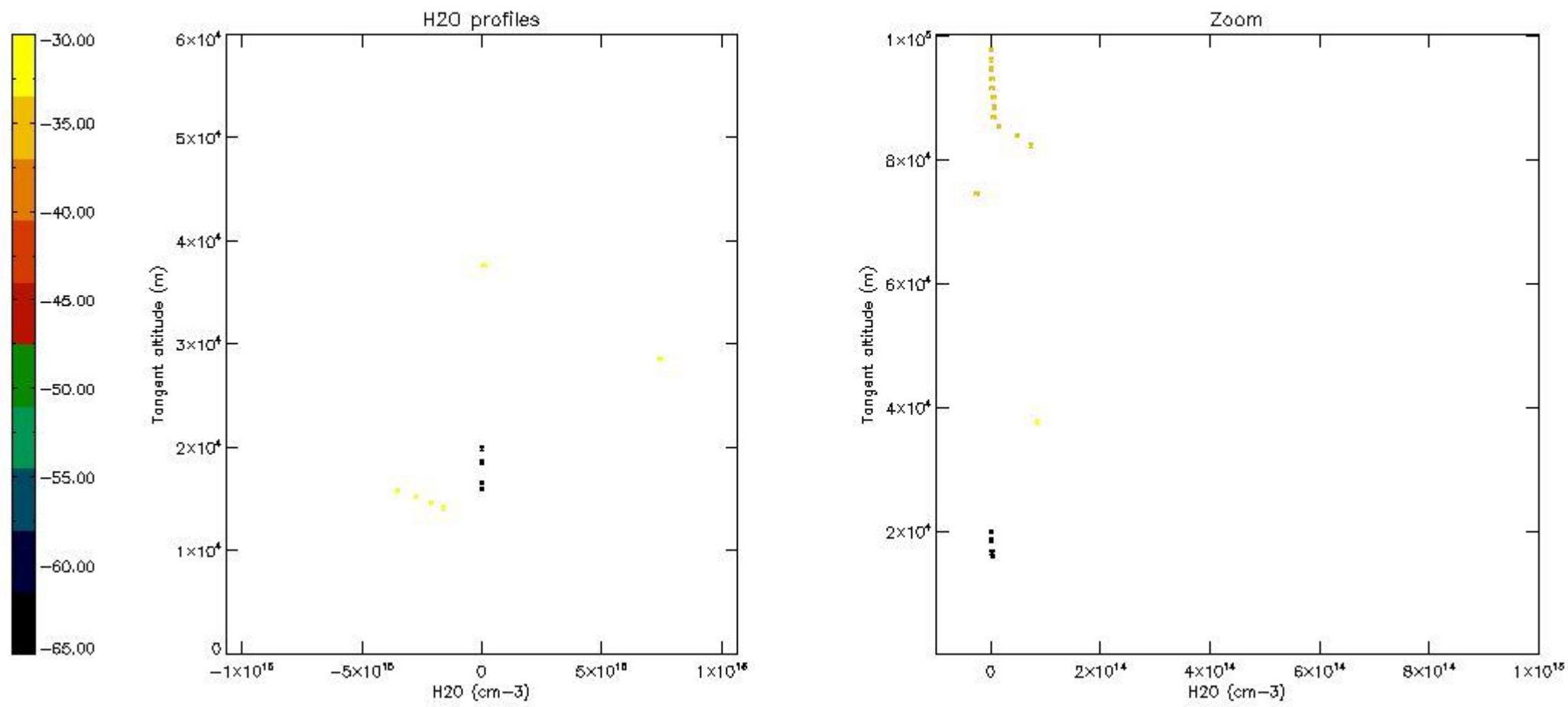
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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	30-MAY-2004 00:01:20
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	30-MAY-2004 00:01:20
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	30-MAY-2004 00:01:20

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

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

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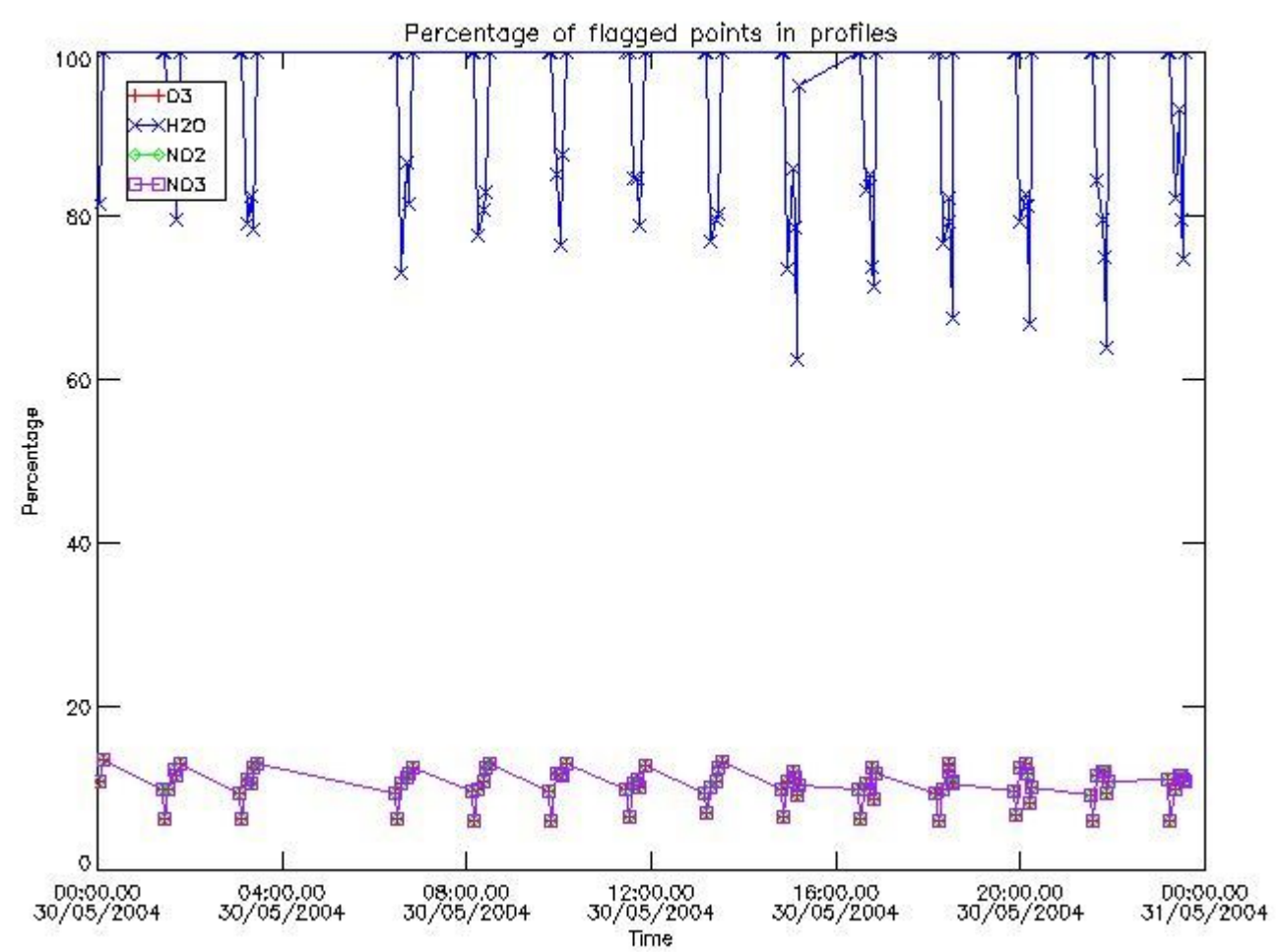
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414	GOM_NL__2PRFIN20040530_234850_000000492027_00188_11765_2952.N1	30-MAY-2004 23:48:50	Straylight	49.000	40	The Sco	1.8590	7100.0	98	11765	No
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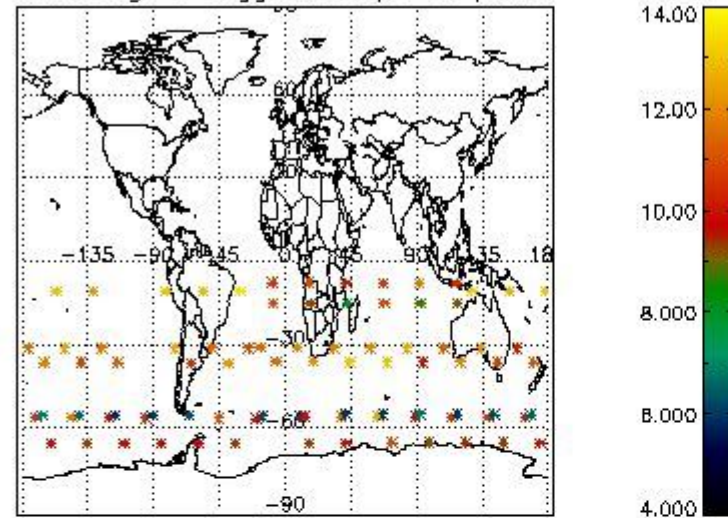
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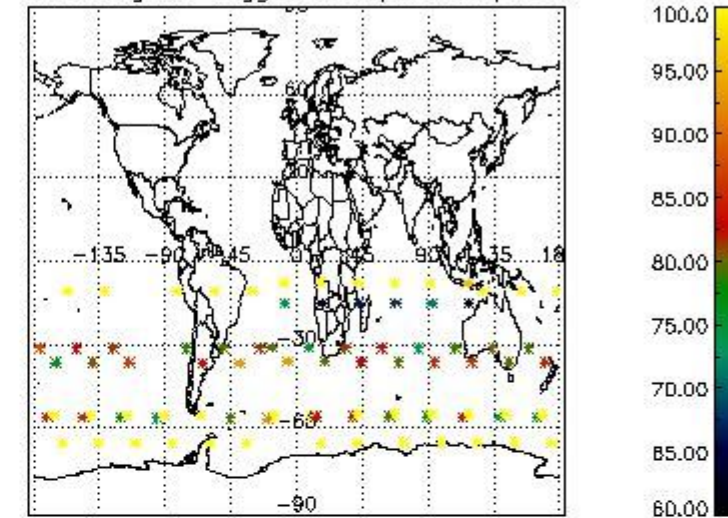


3.2 Plot quality information per product (world map)

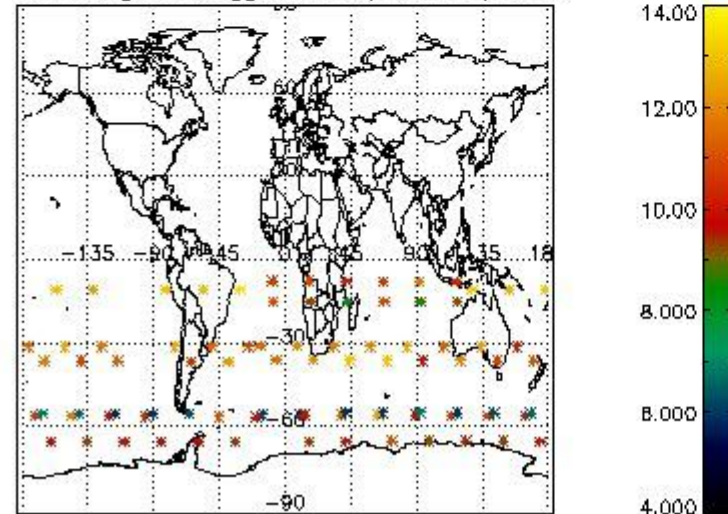
Percentage of flagged data per O3 profile



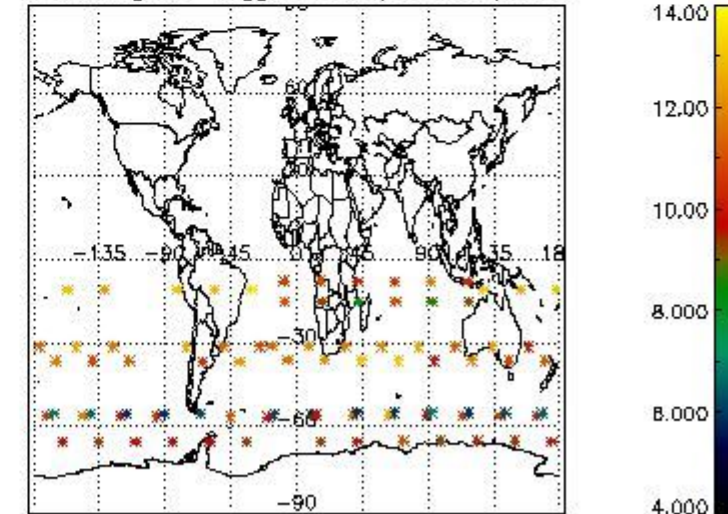
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

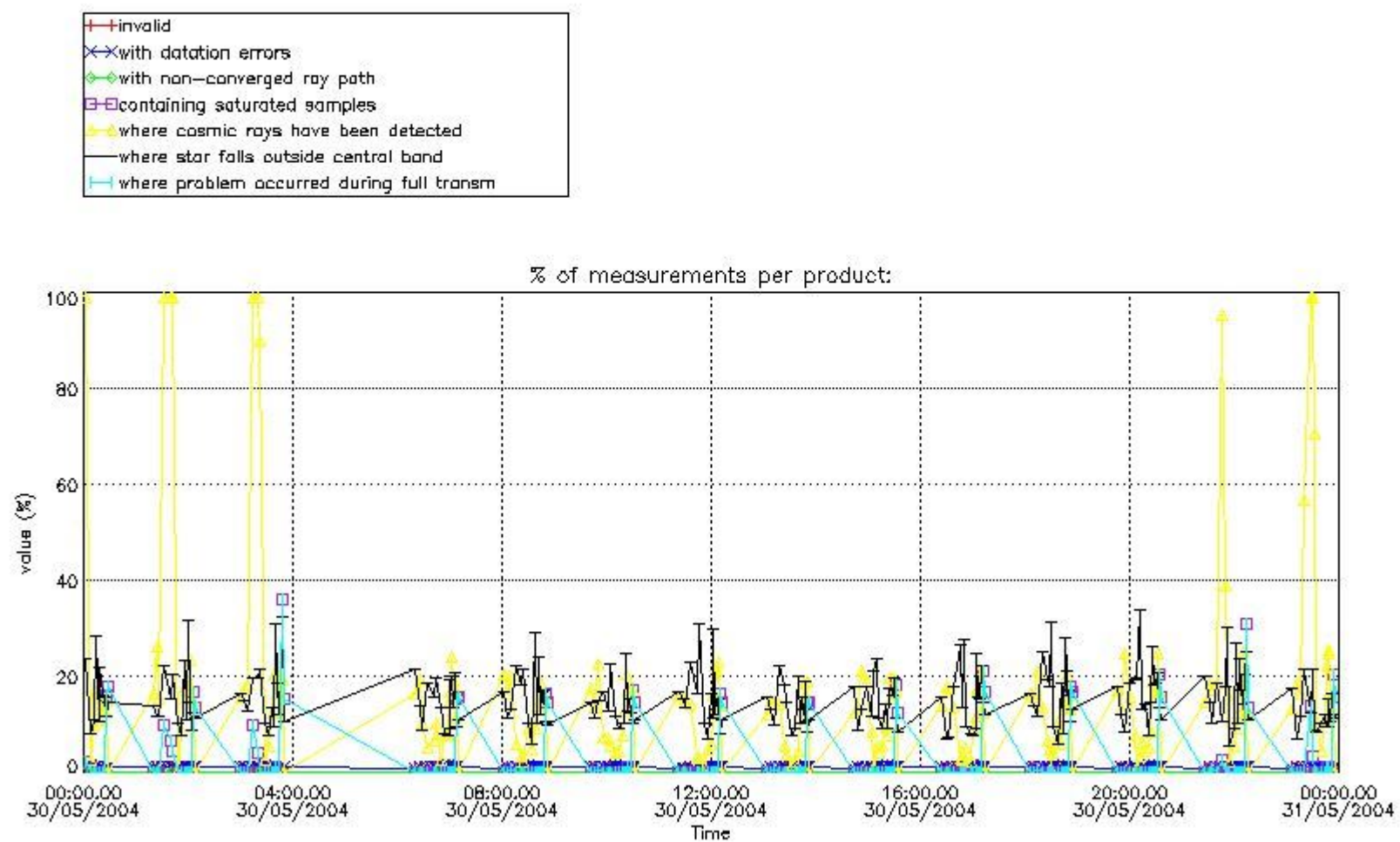


4. Level 1 quality information per product

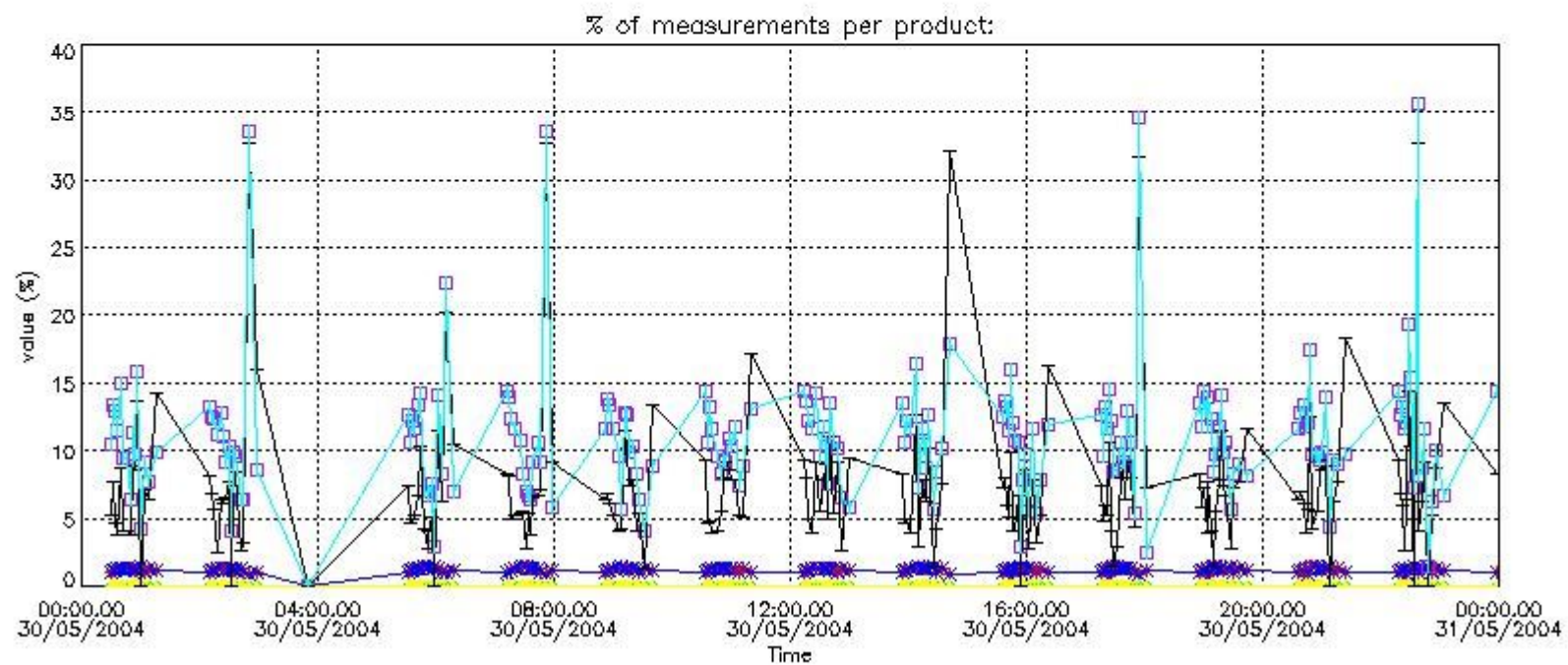
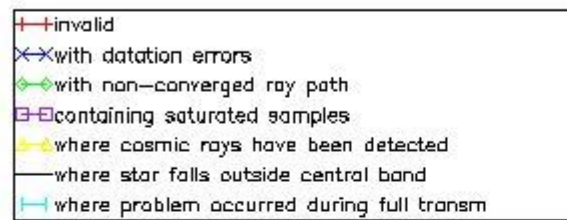
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

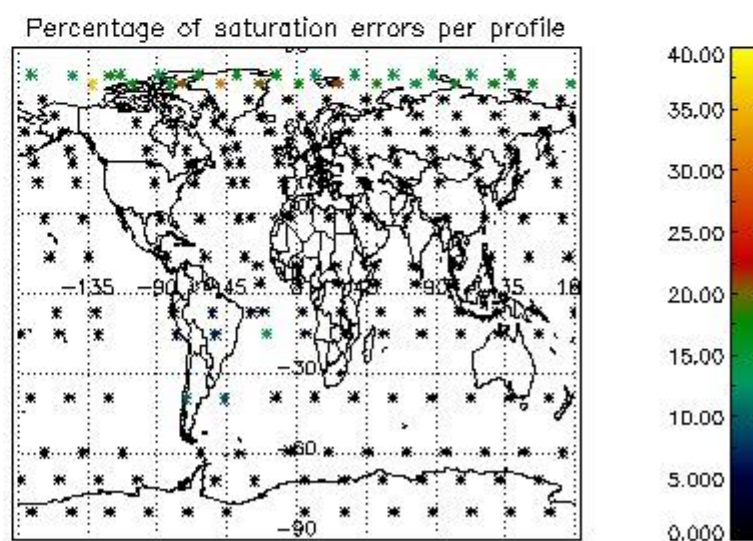
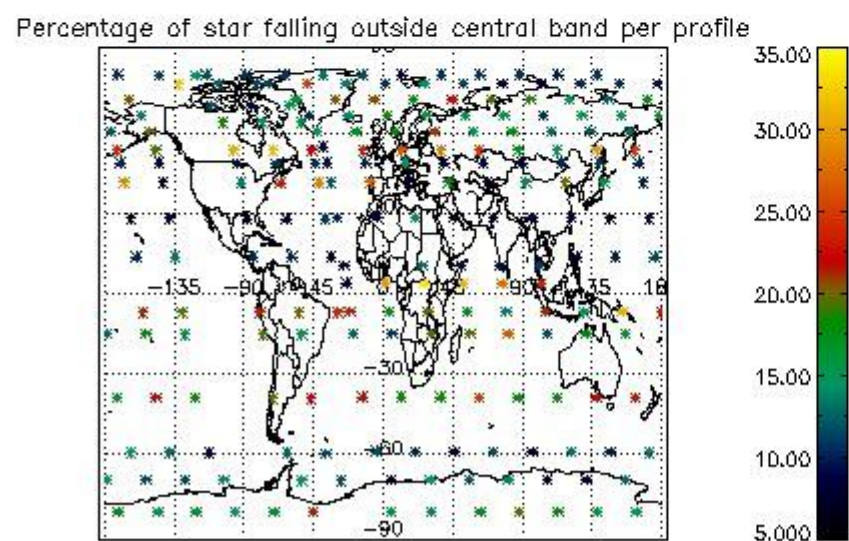
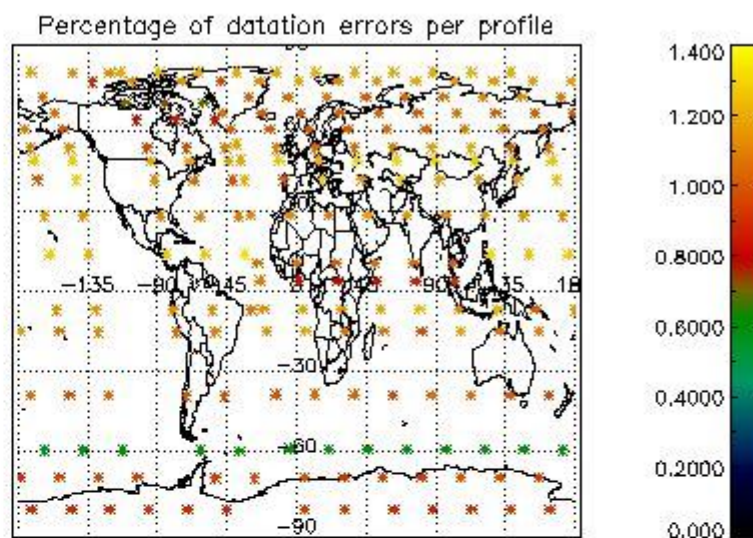
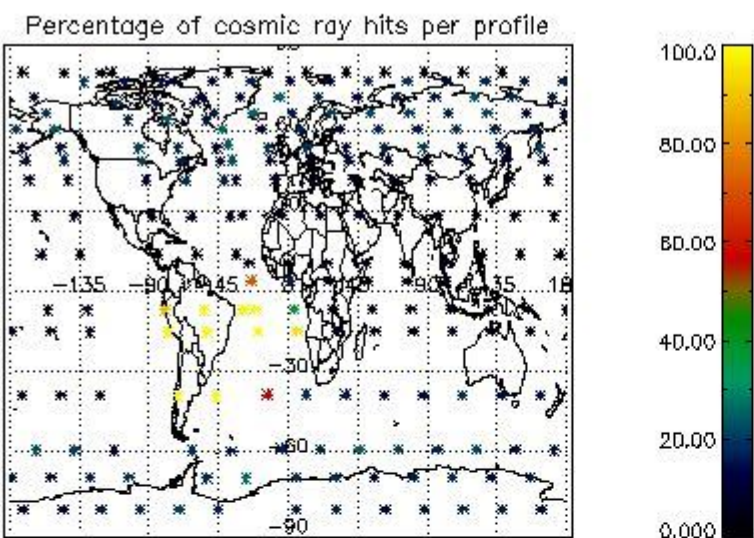


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

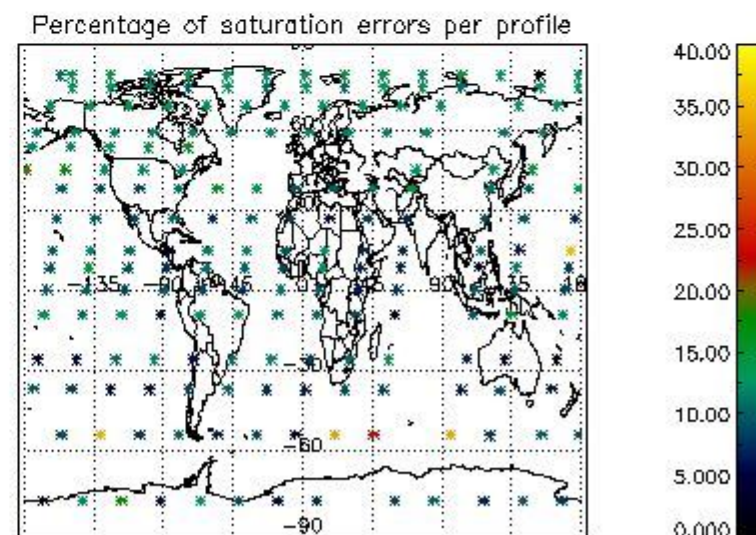
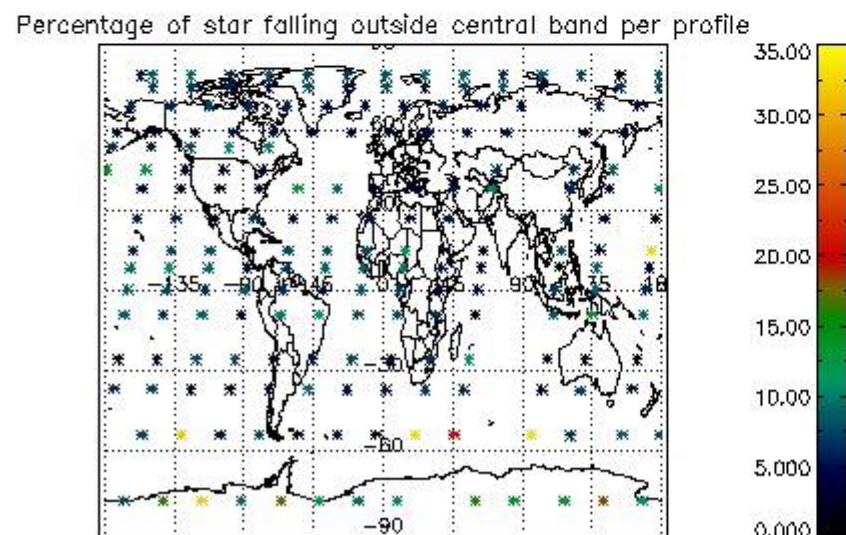
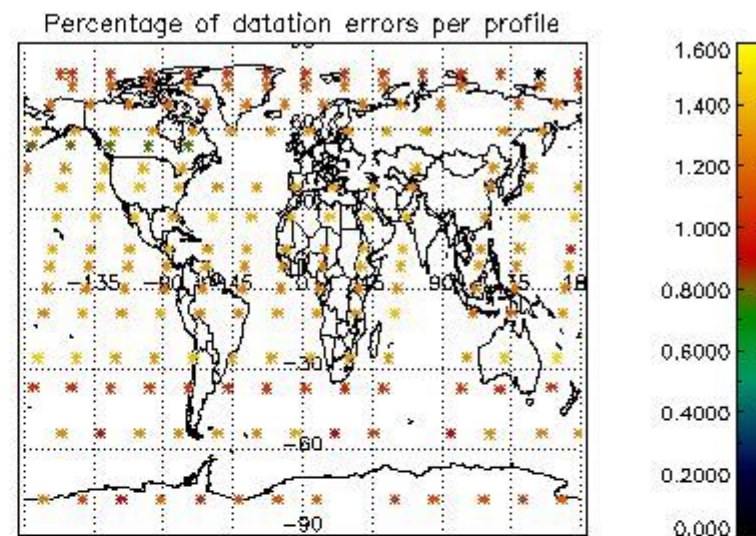
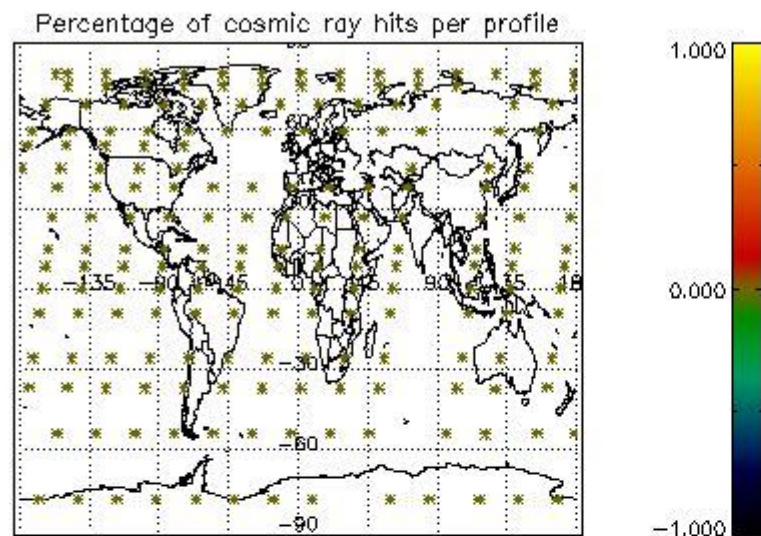


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

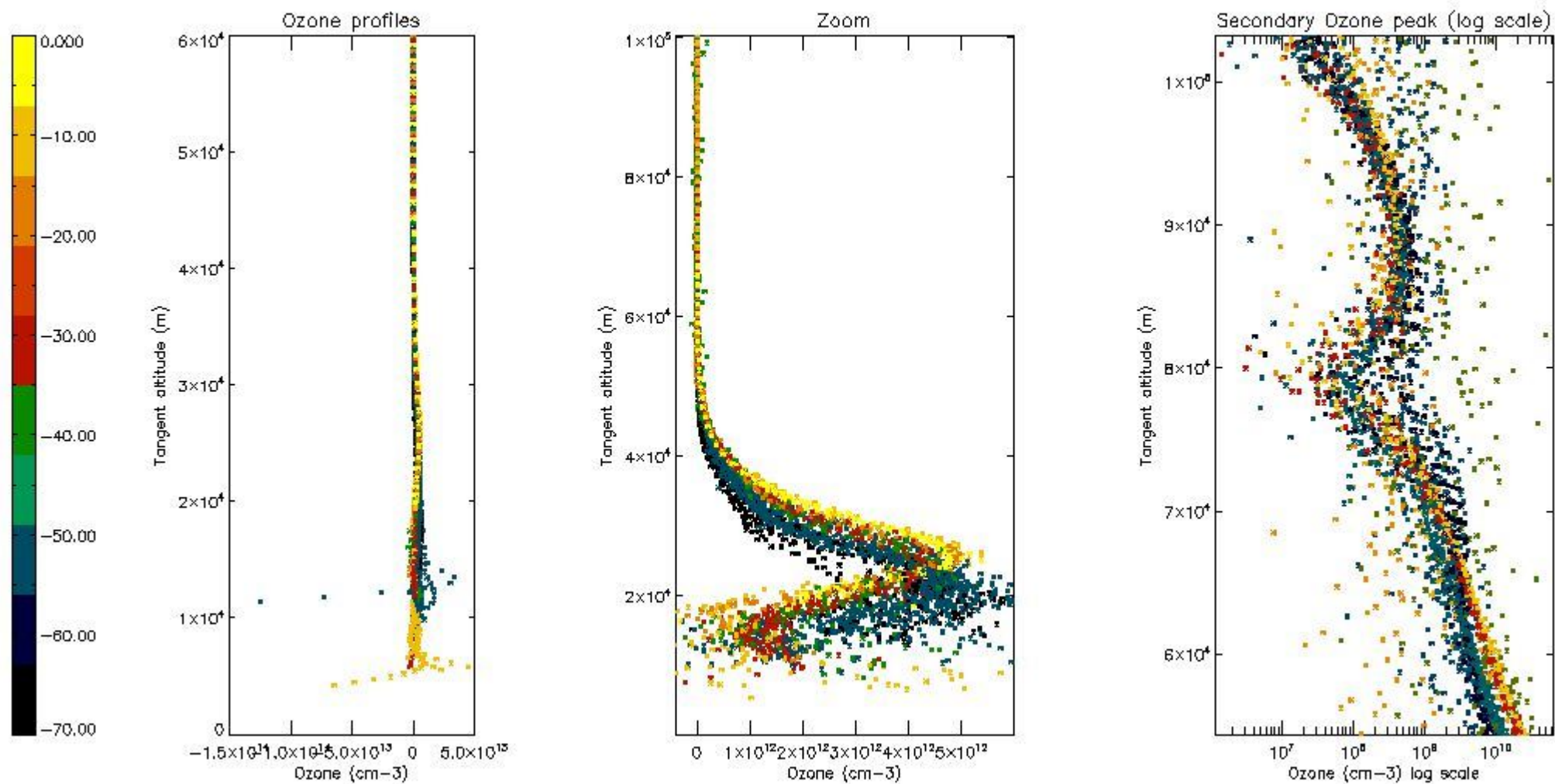
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	25
STD < 20	13

STD < 10	11
STD < 5	8

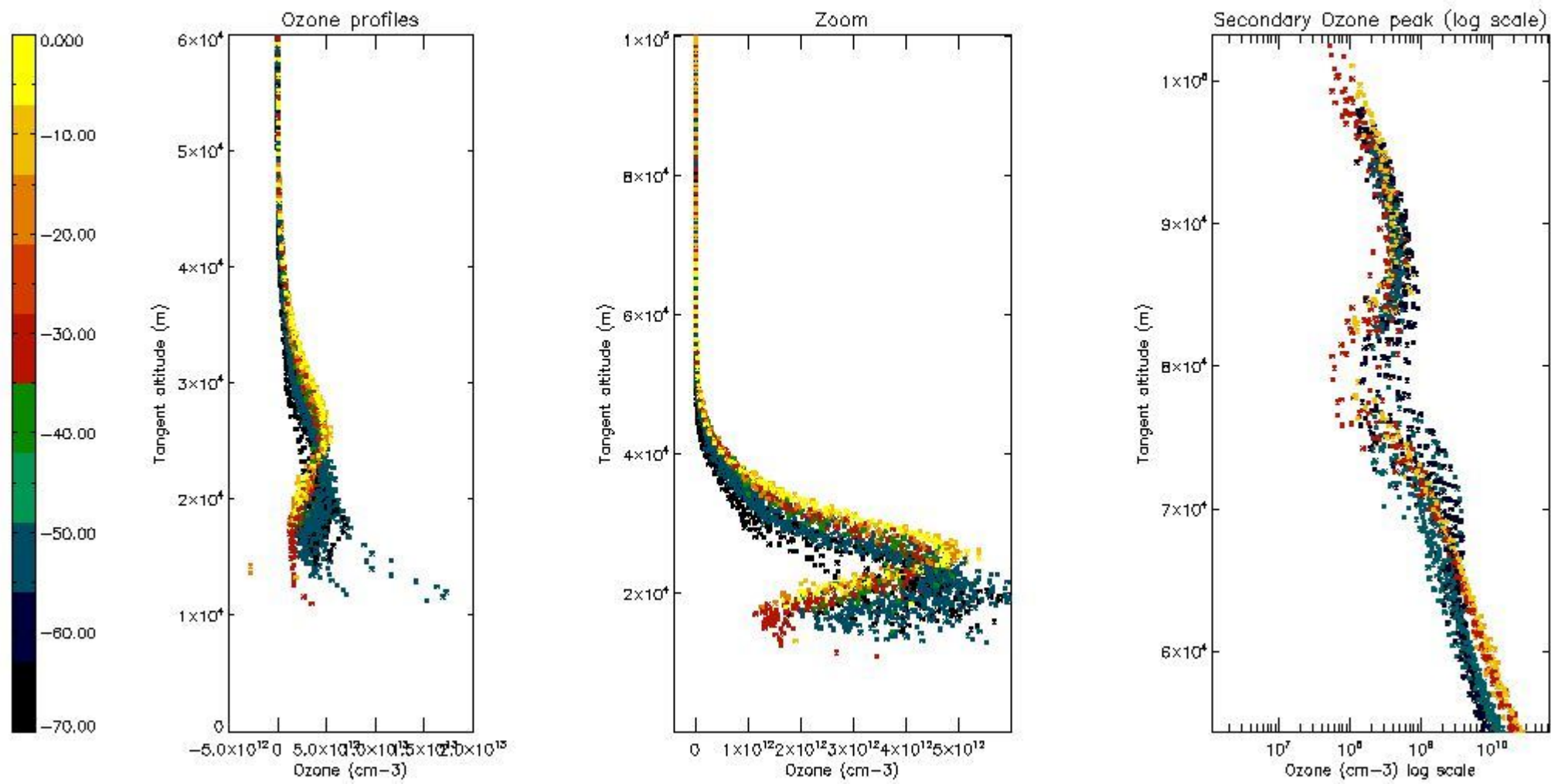
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



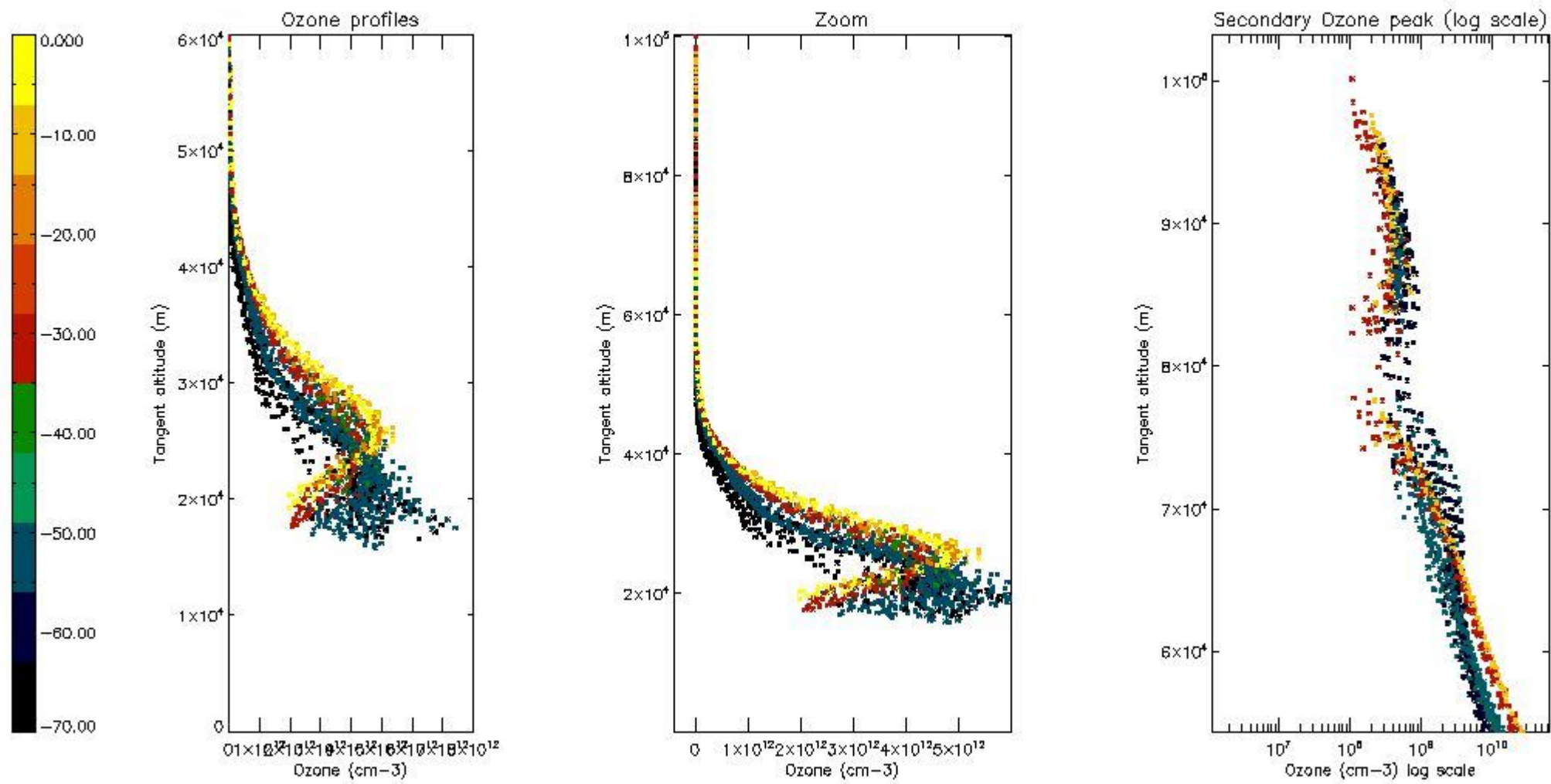
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



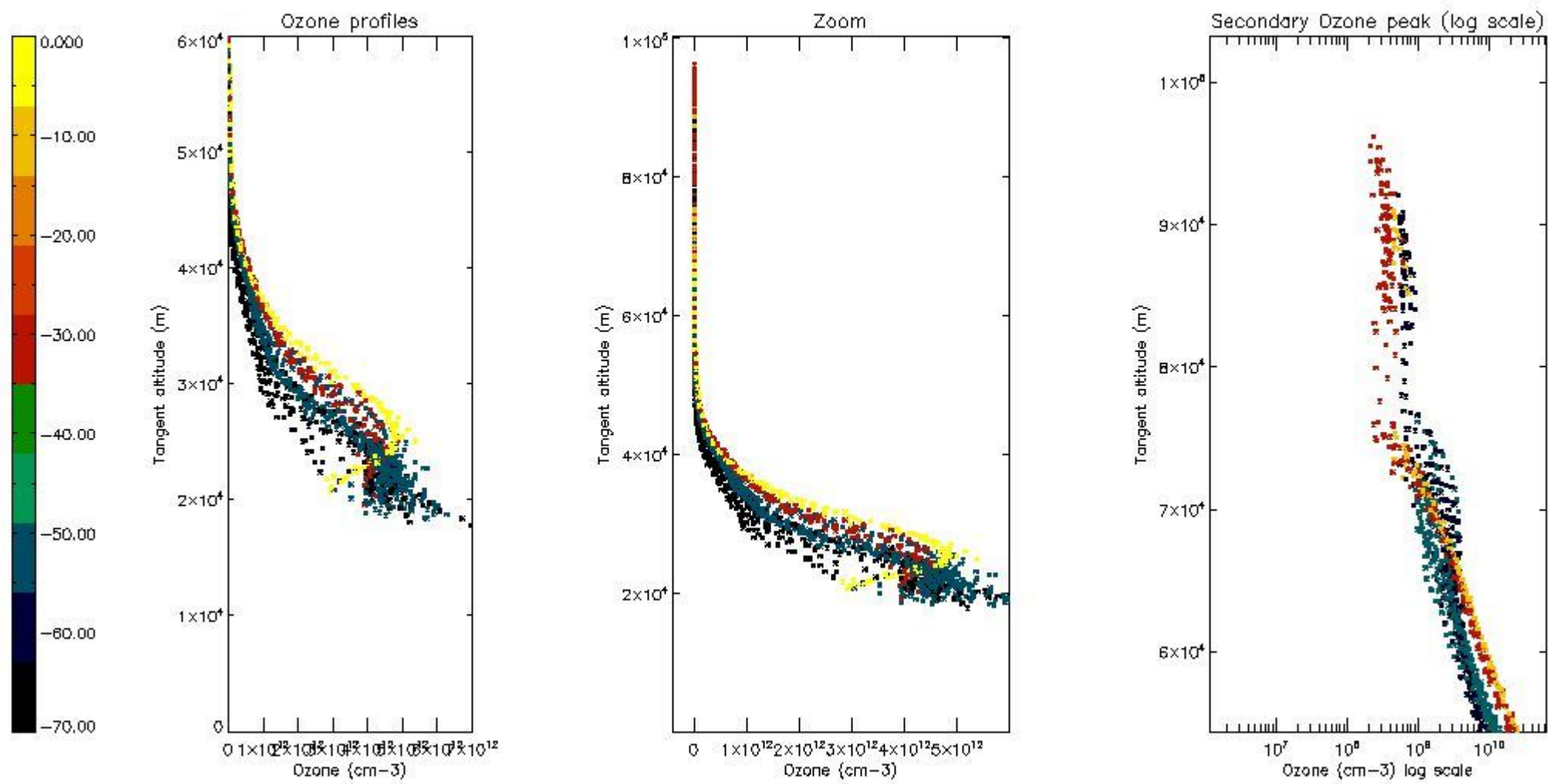
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



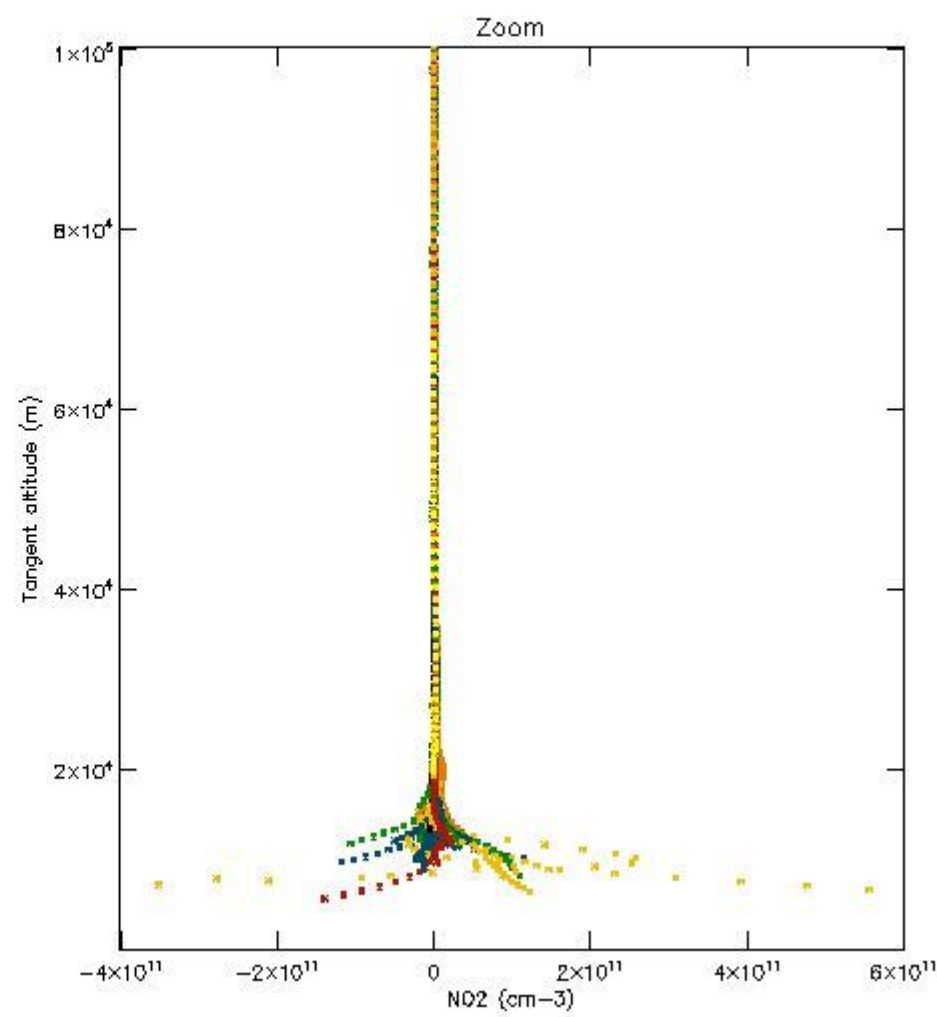
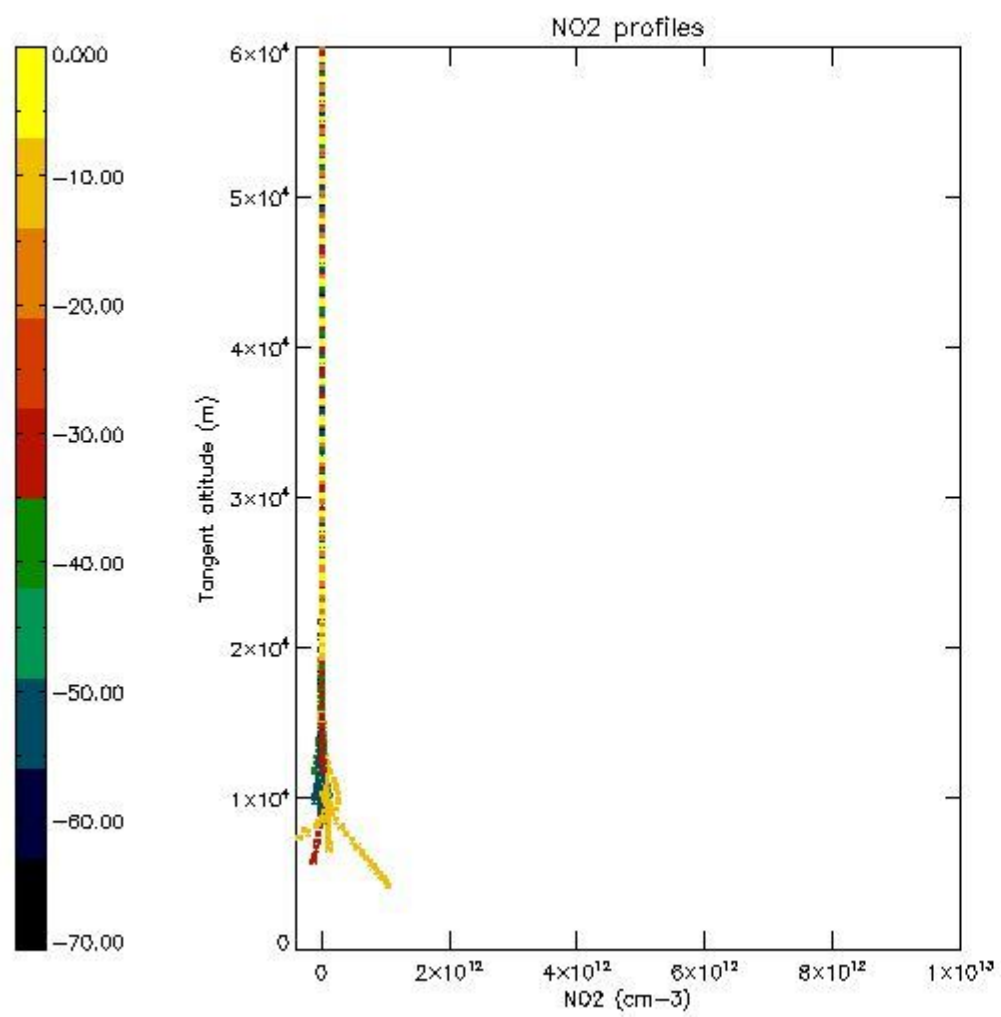
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



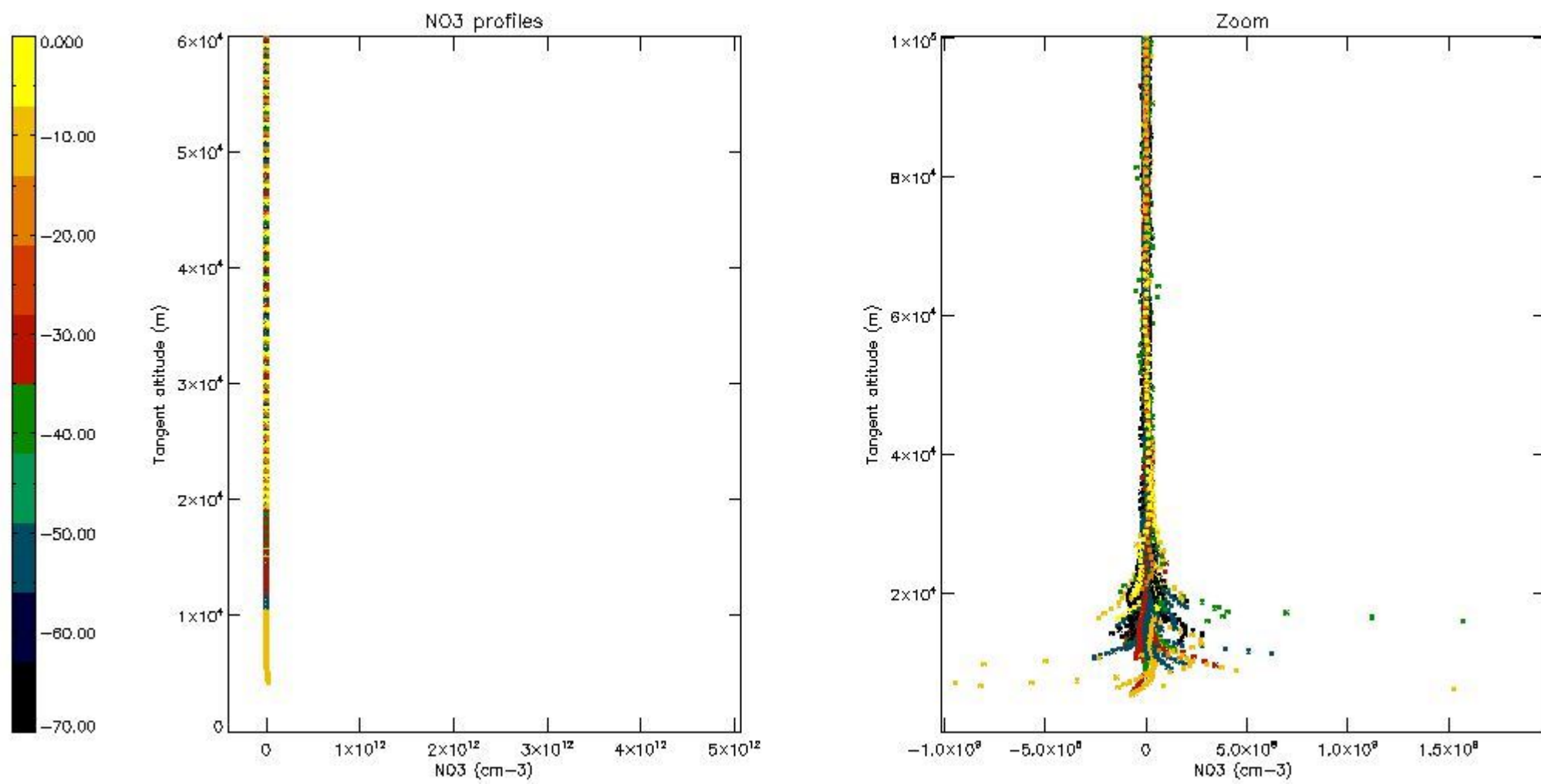
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



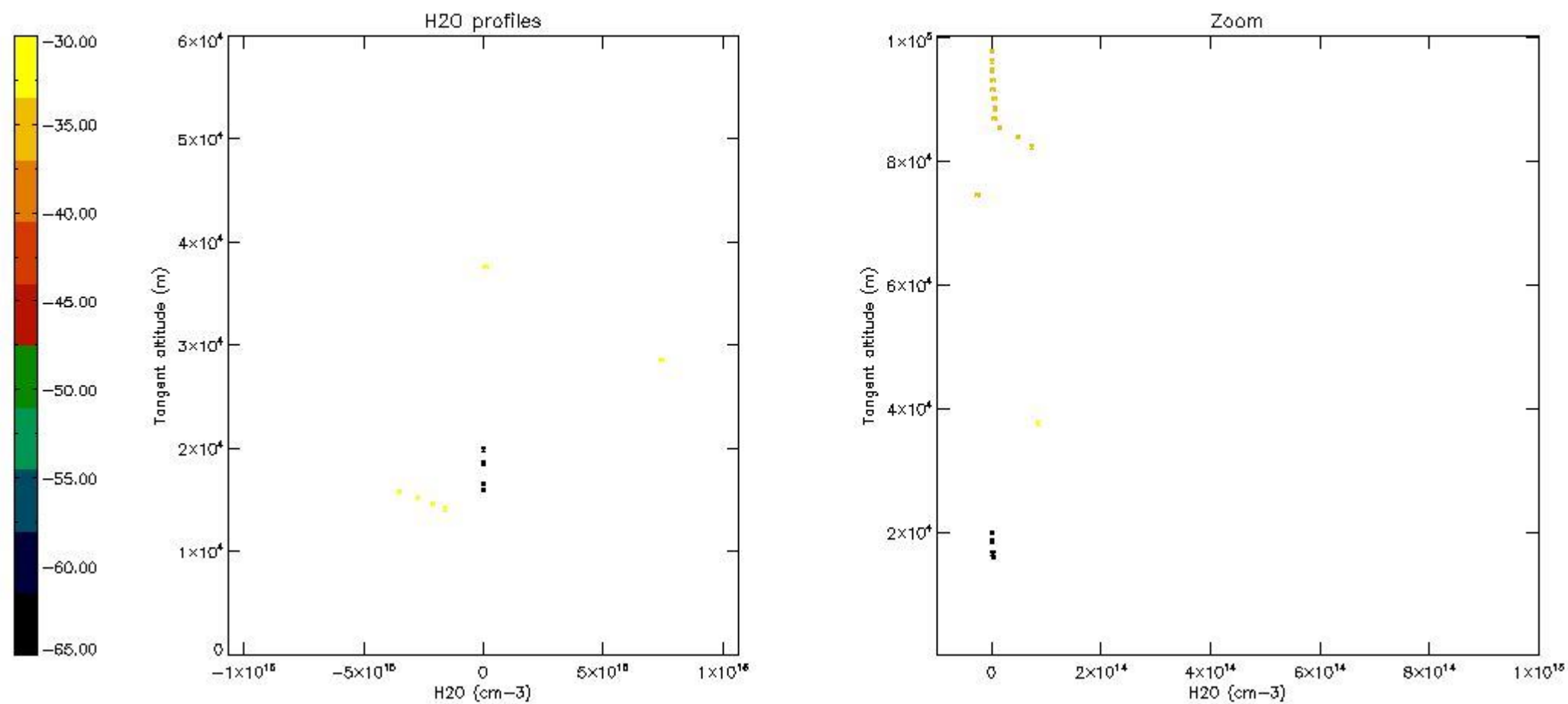
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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)

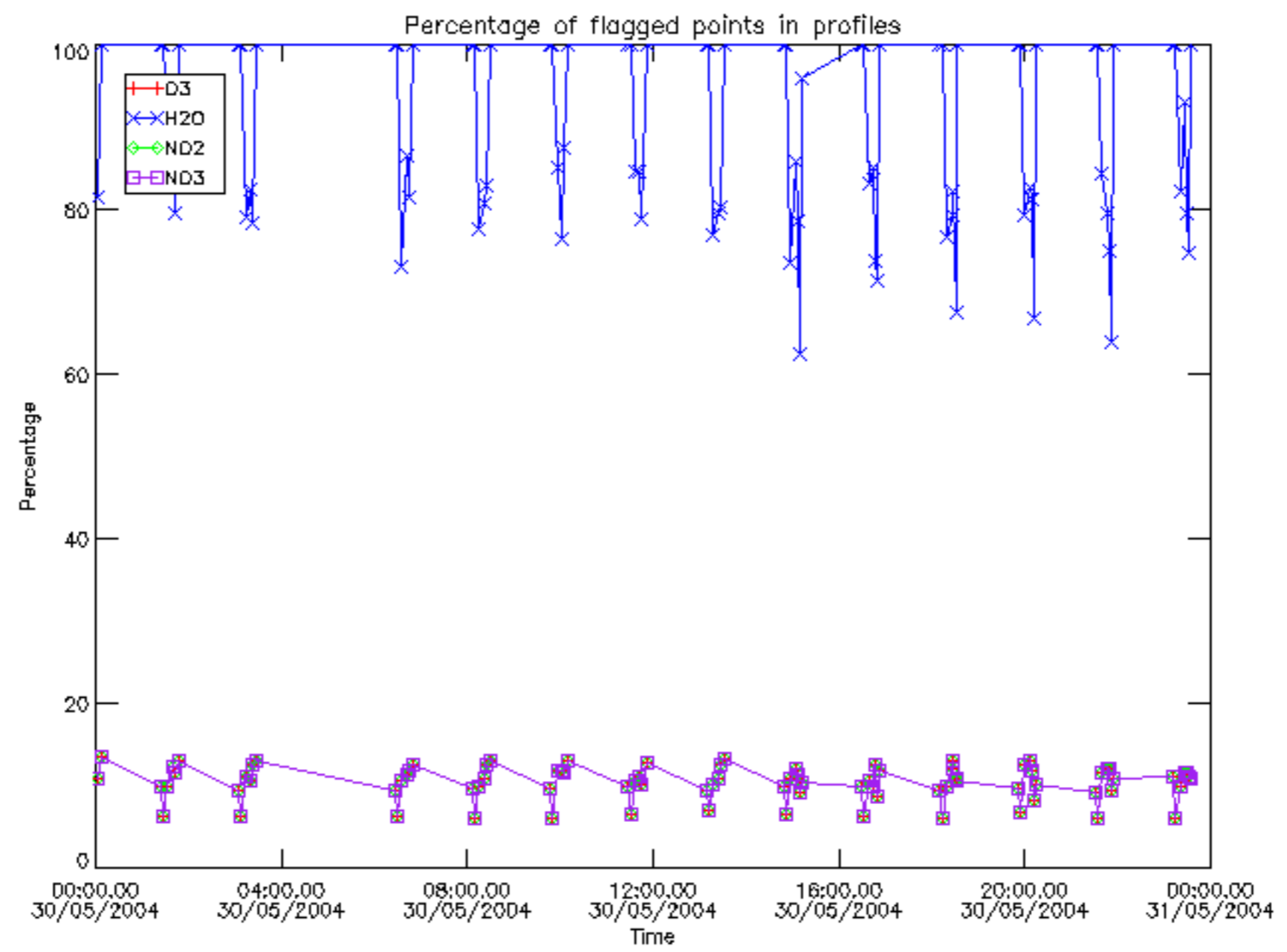
The colorbar represents the latitude.



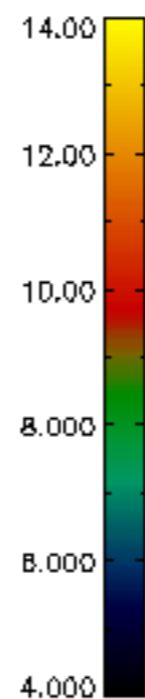
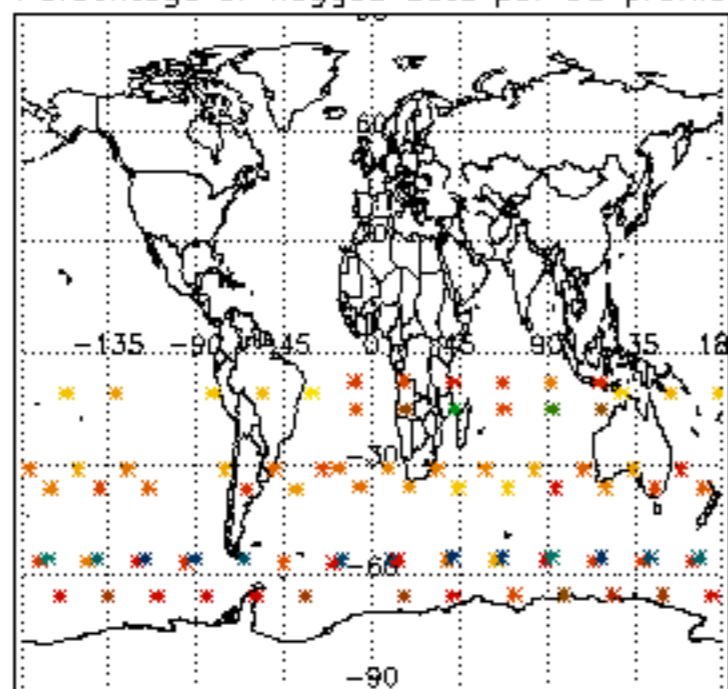
6. Auxiliary Data Files used for the production reported in section 2

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.

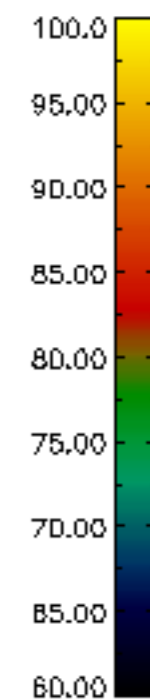
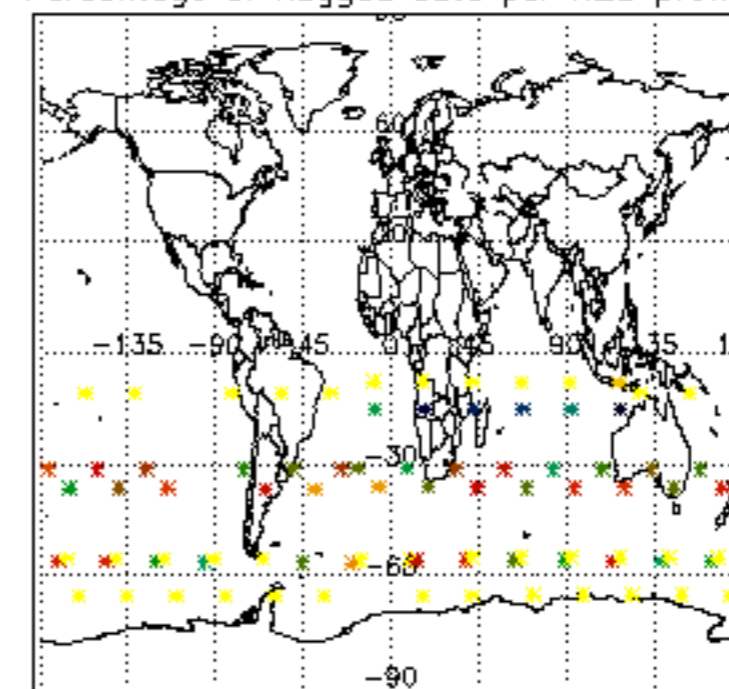
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	30-MAY-2004 00:01:20
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	30-MAY-2004 00:01:20
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	30-MAY-2004 00:01:20



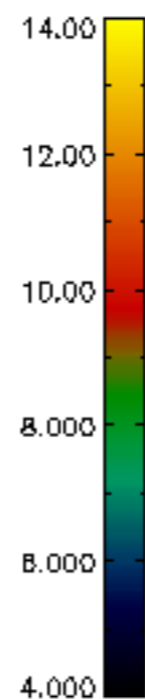
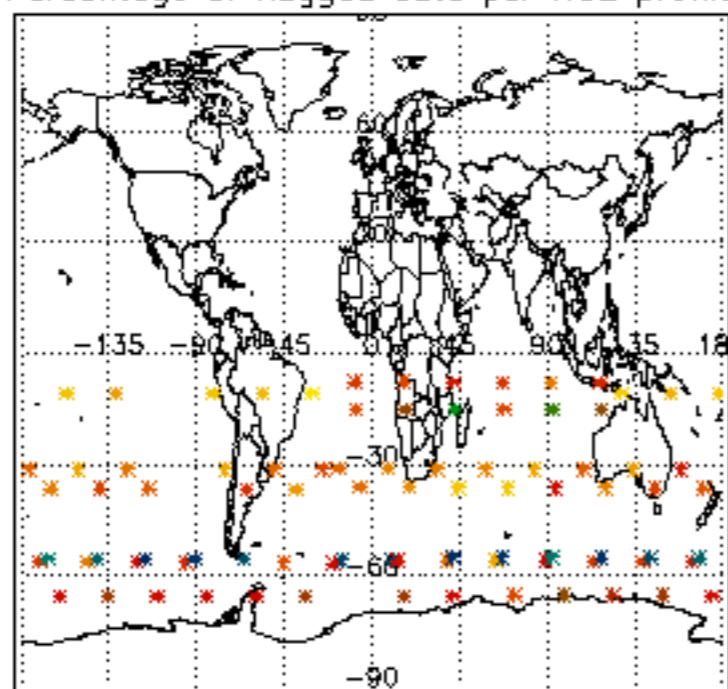
Percentage of flagged data per D3 profile



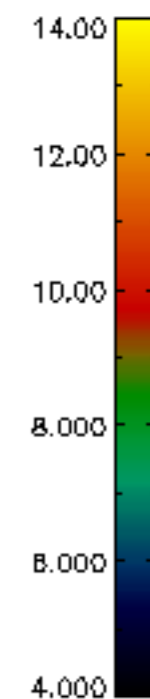
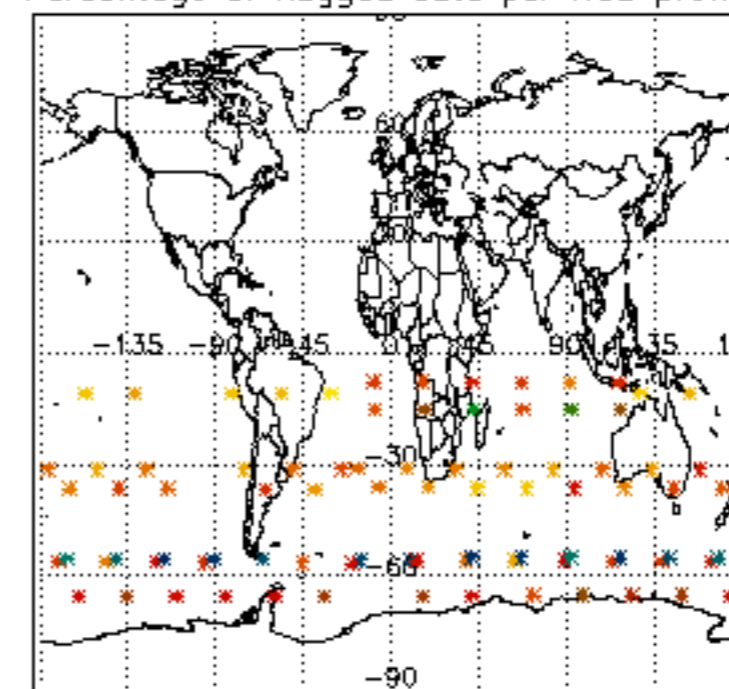
Percentage of flagged data per H2O profile

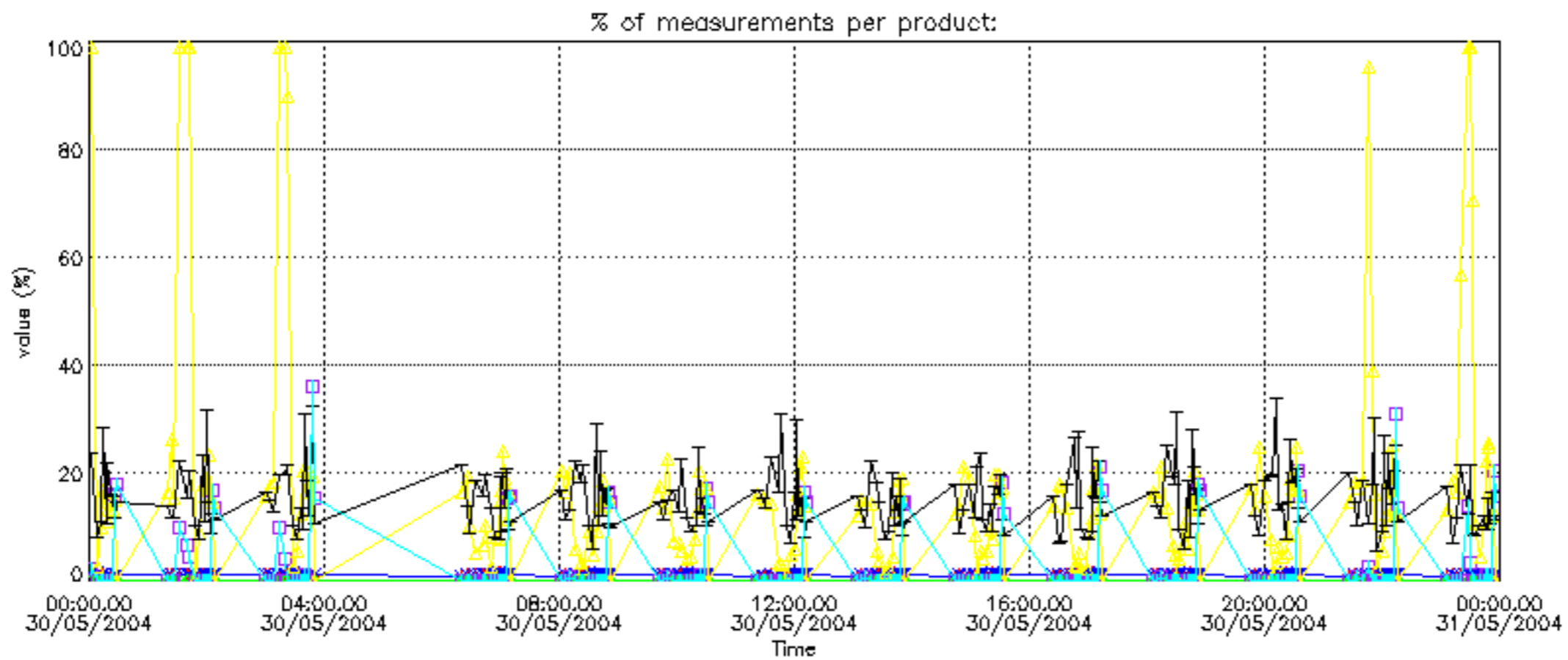
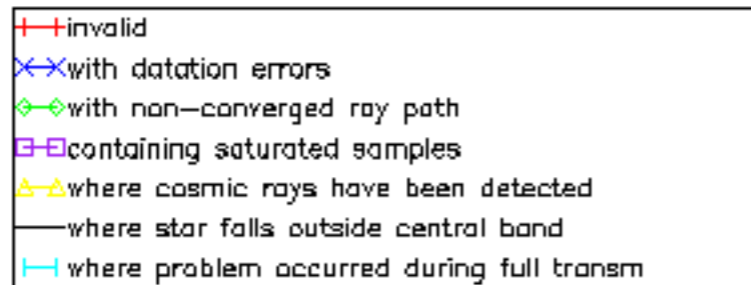


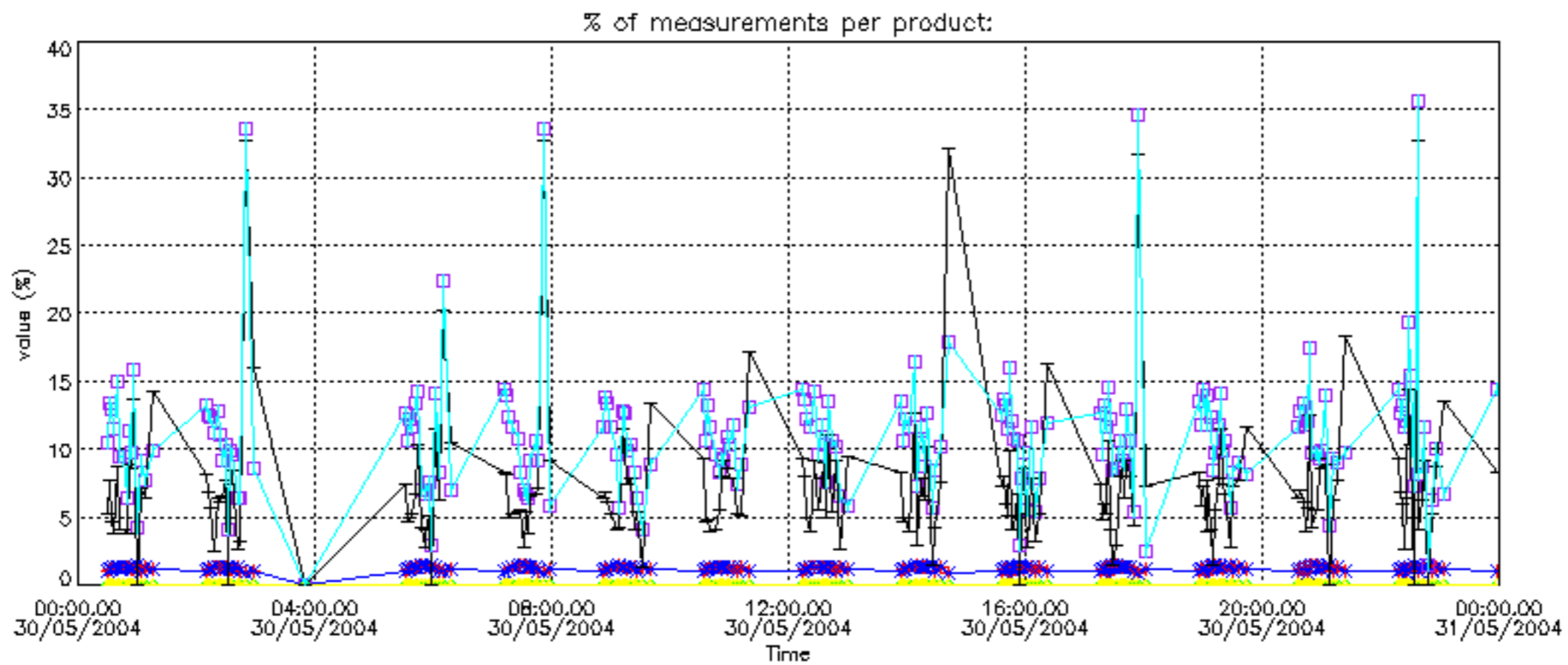
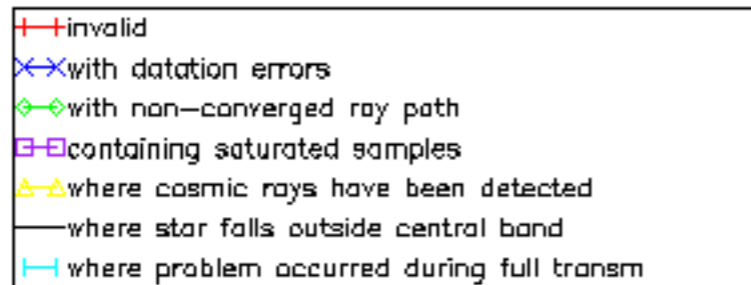
Percentage of flagged data per NO2 profile



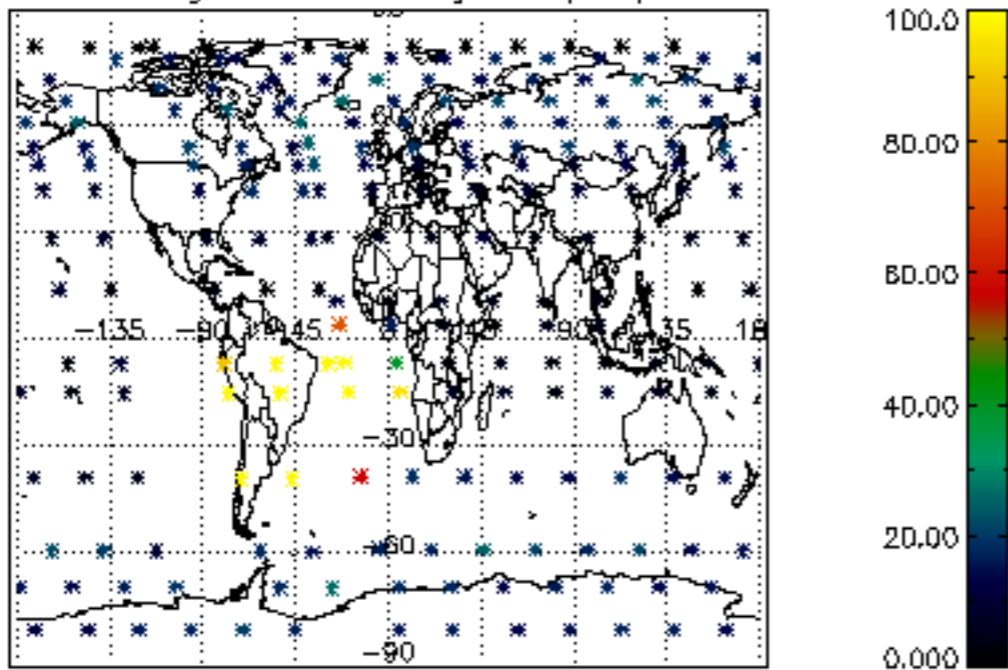
Percentage of flagged data per NO3 profile



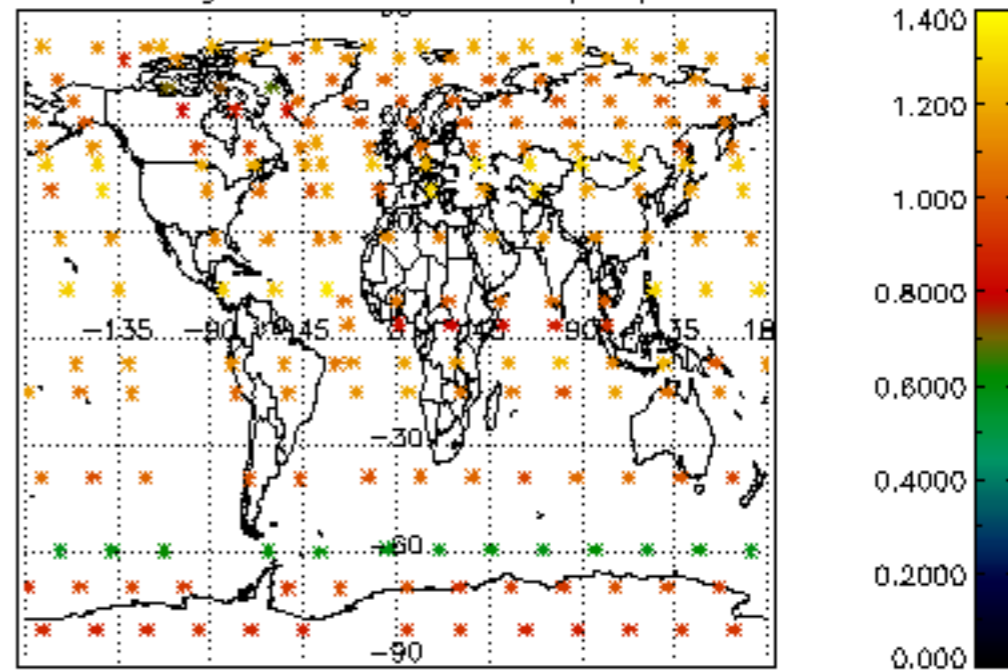




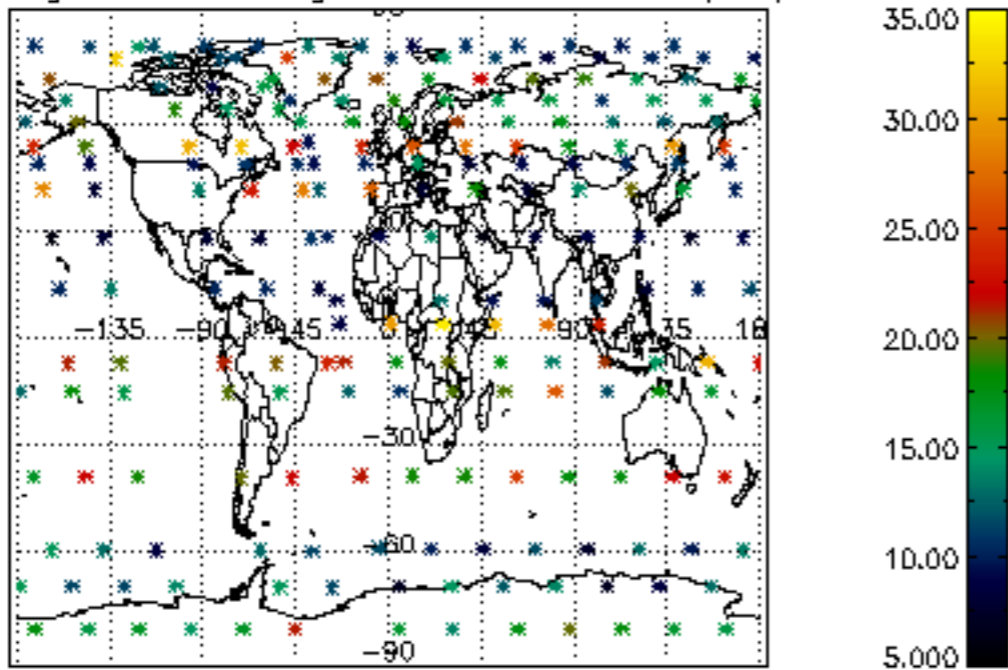
Percentage of cosmic ray hits per profile



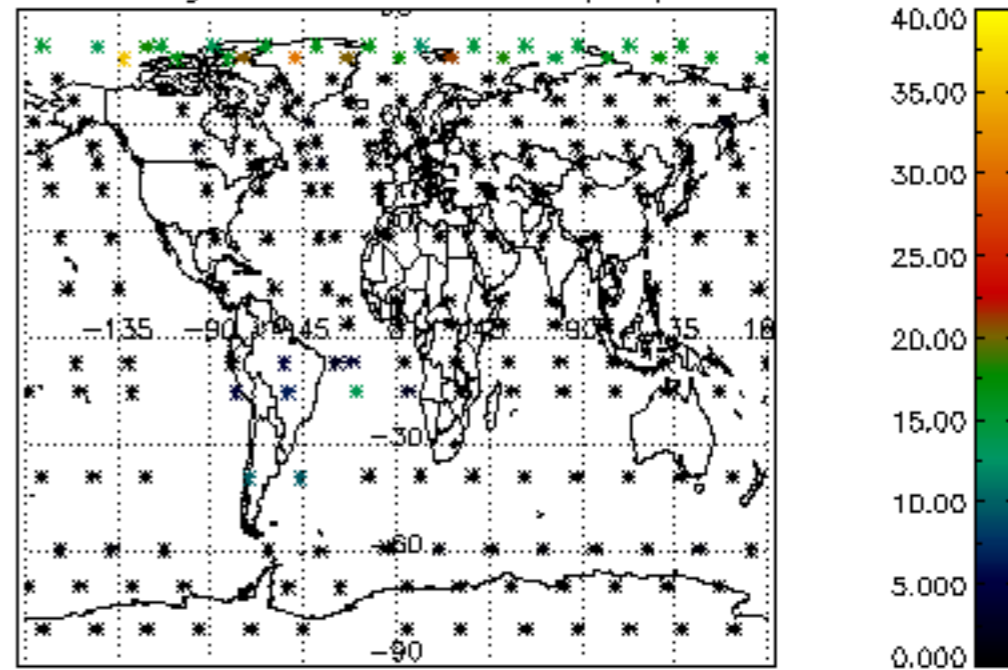
Percentage of datation errors per profile



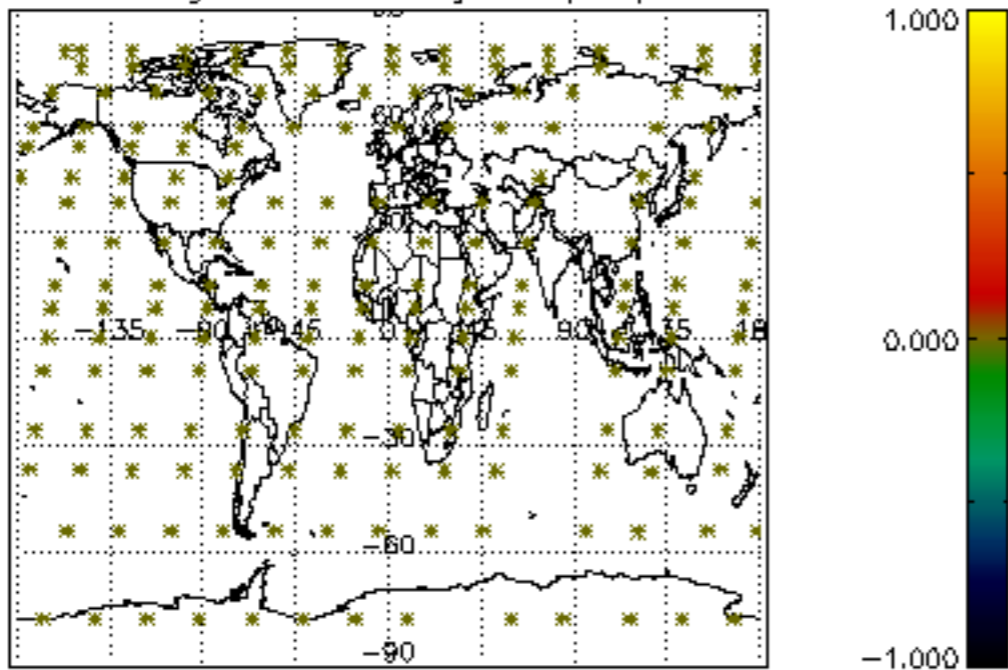
Percentage of star falling outside central band per profile



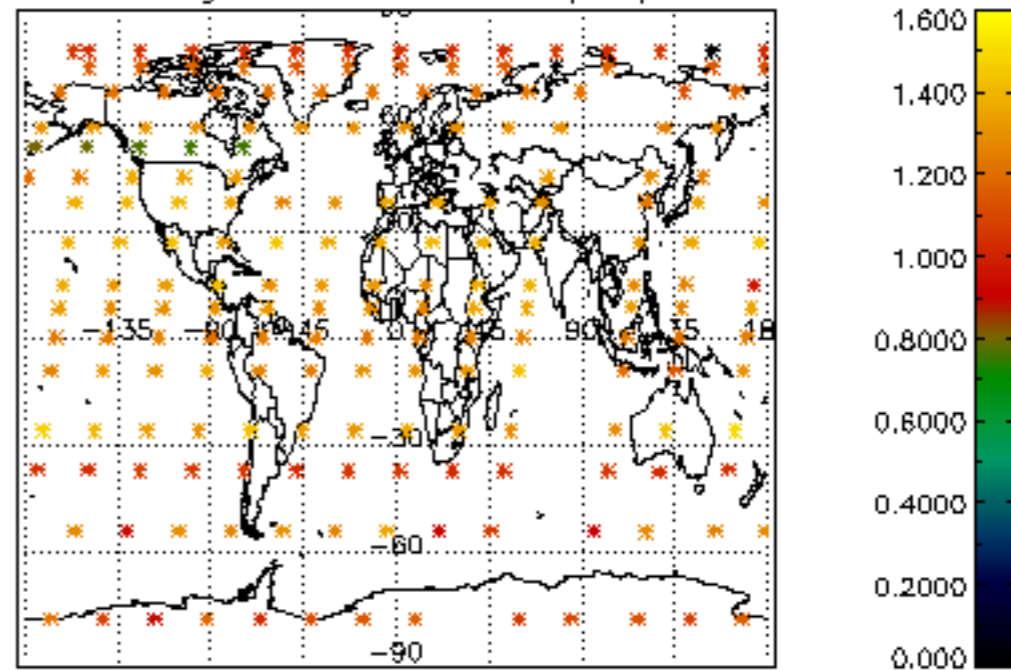
Percentage of saturation errors per profile



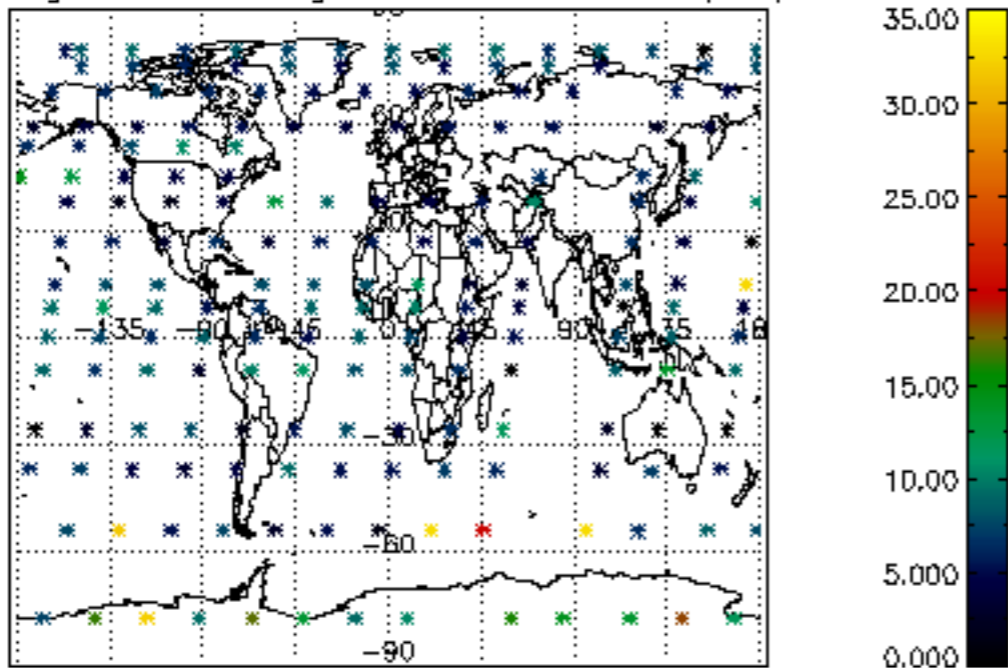
Percentage of cosmic ray hits per profile



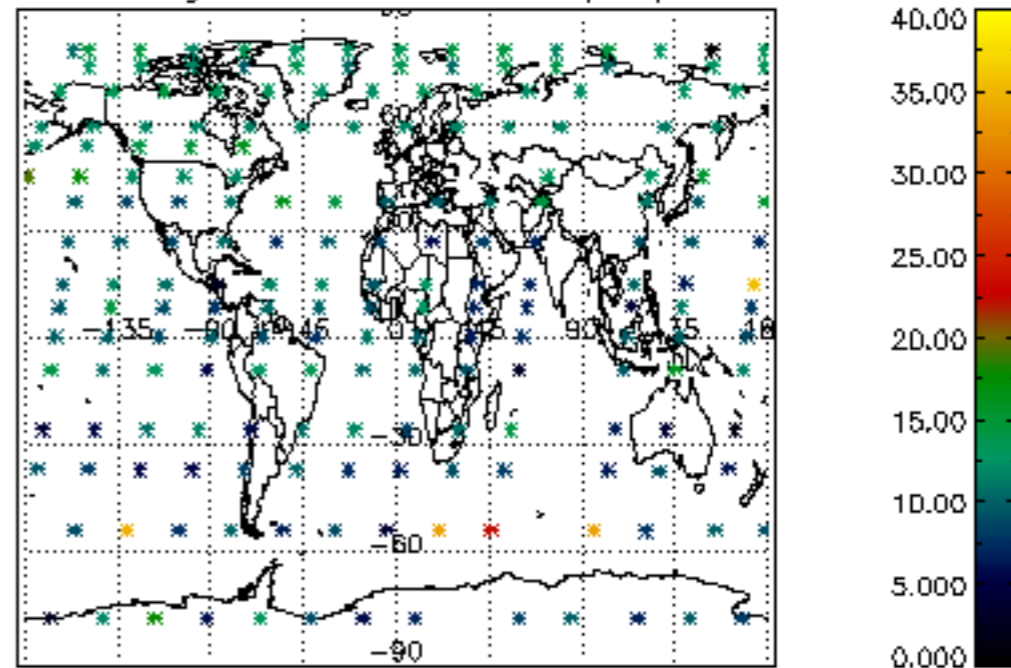
Percentage of datation errors per profile

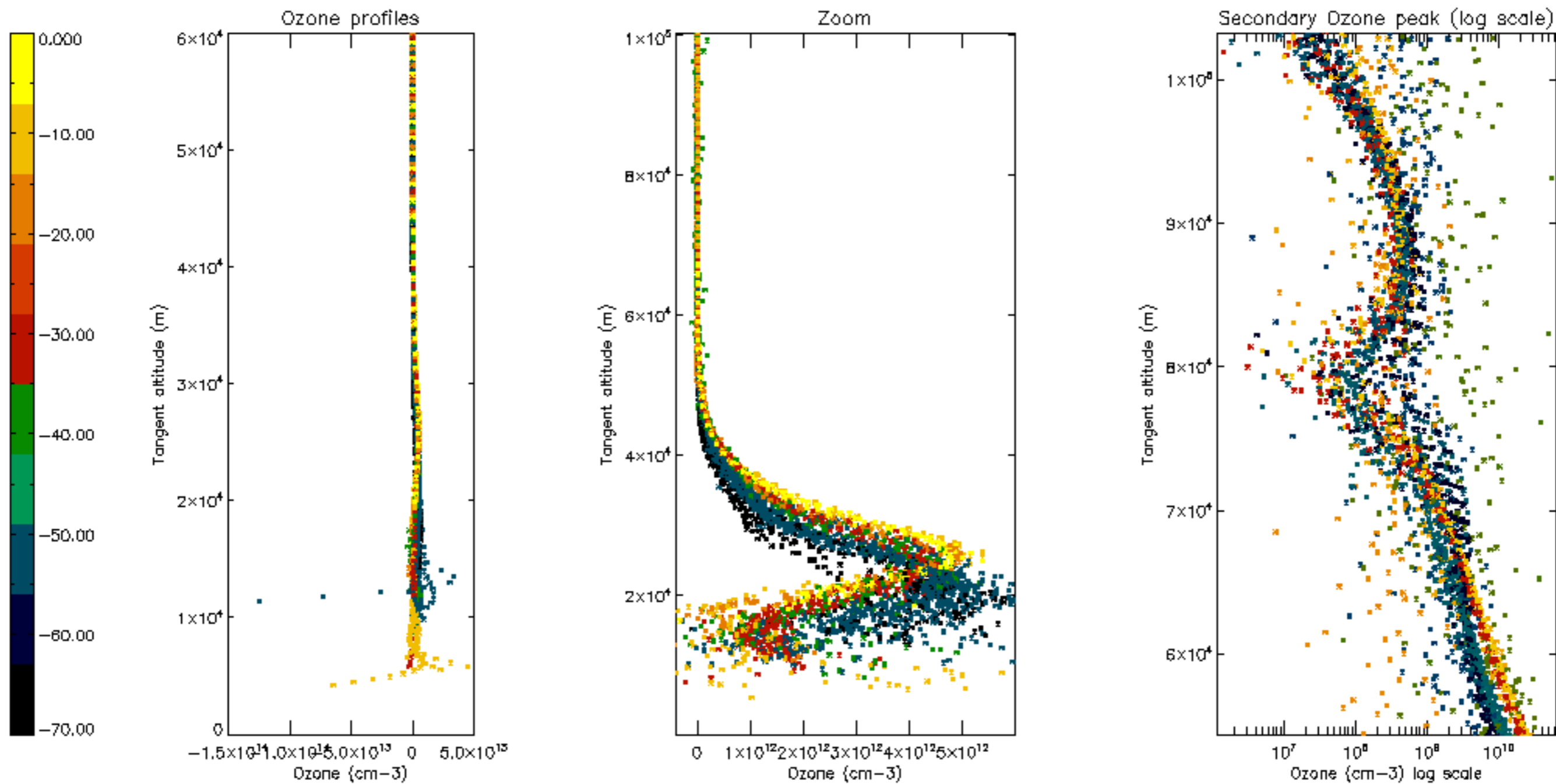


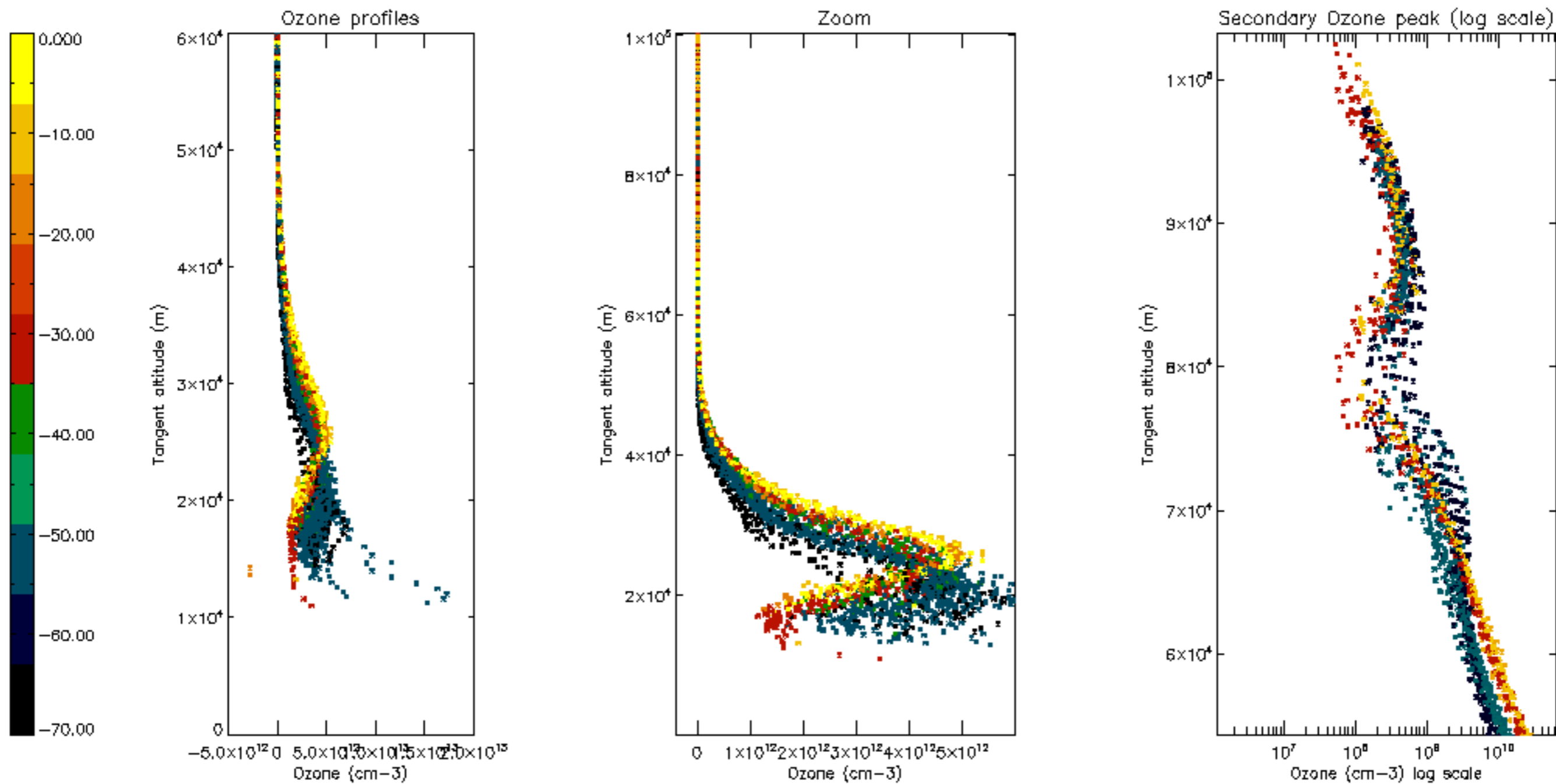
Percentage of star falling outside central band per profile

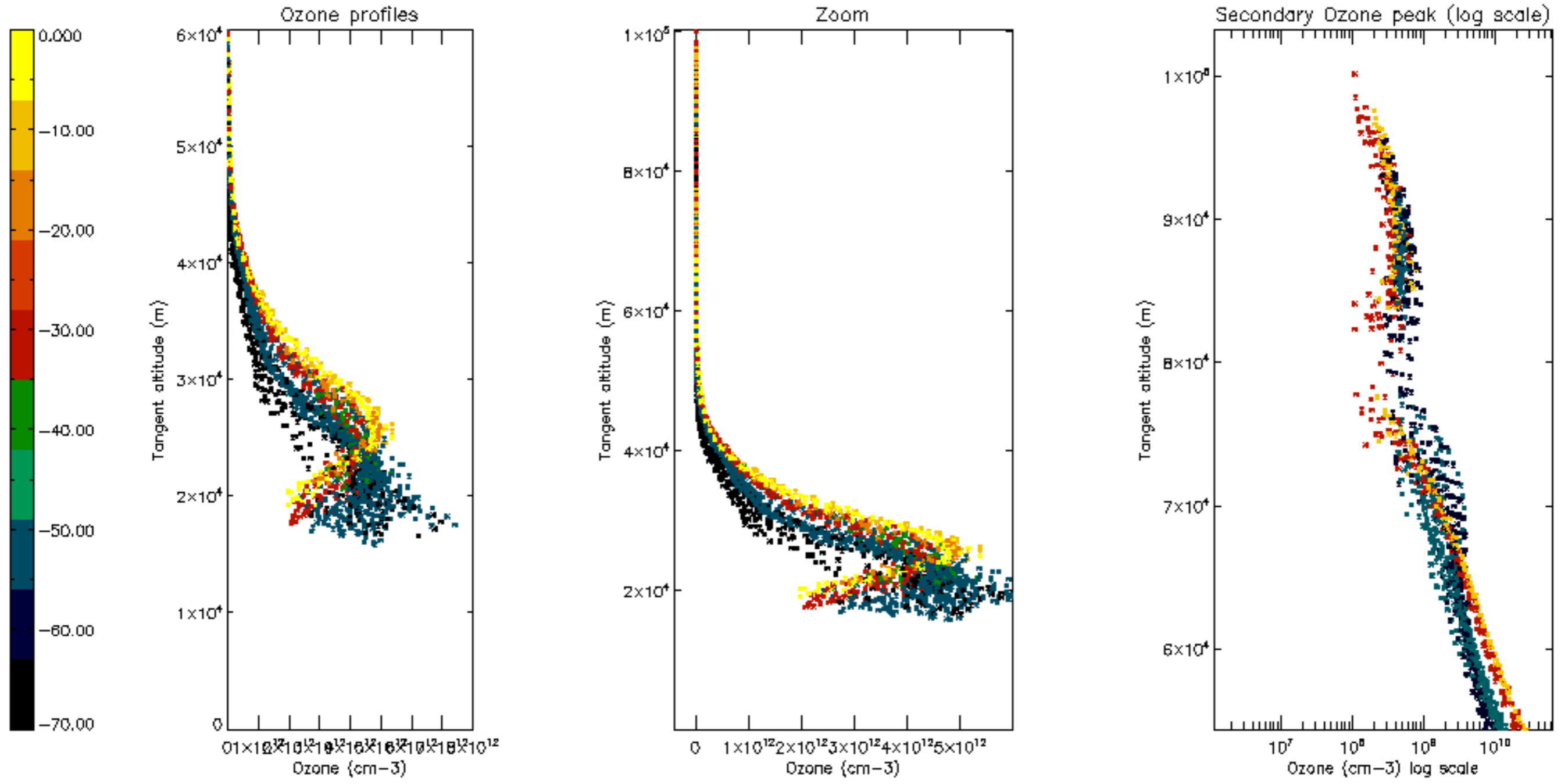


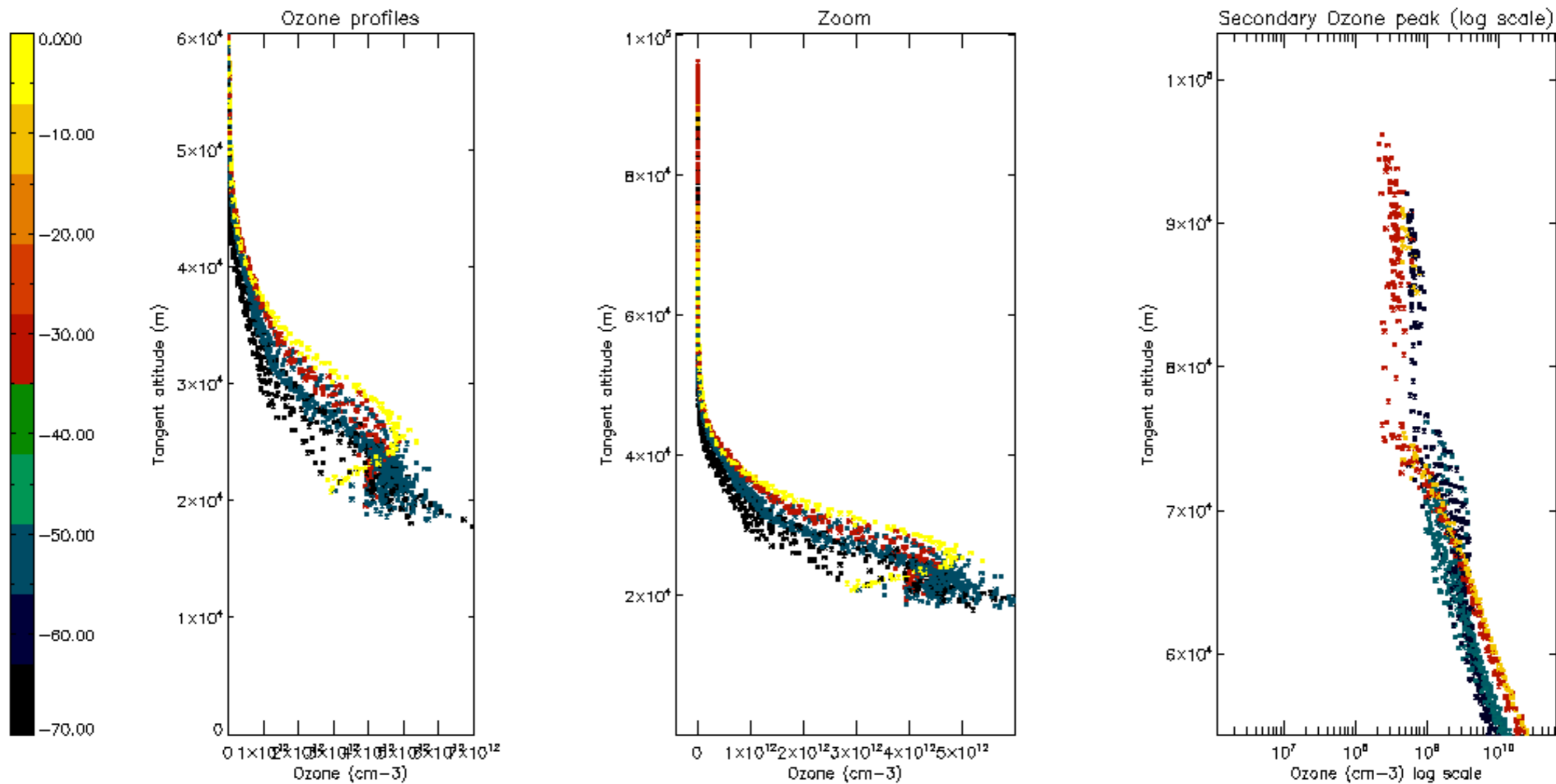
Percentage of saturation errors per profile

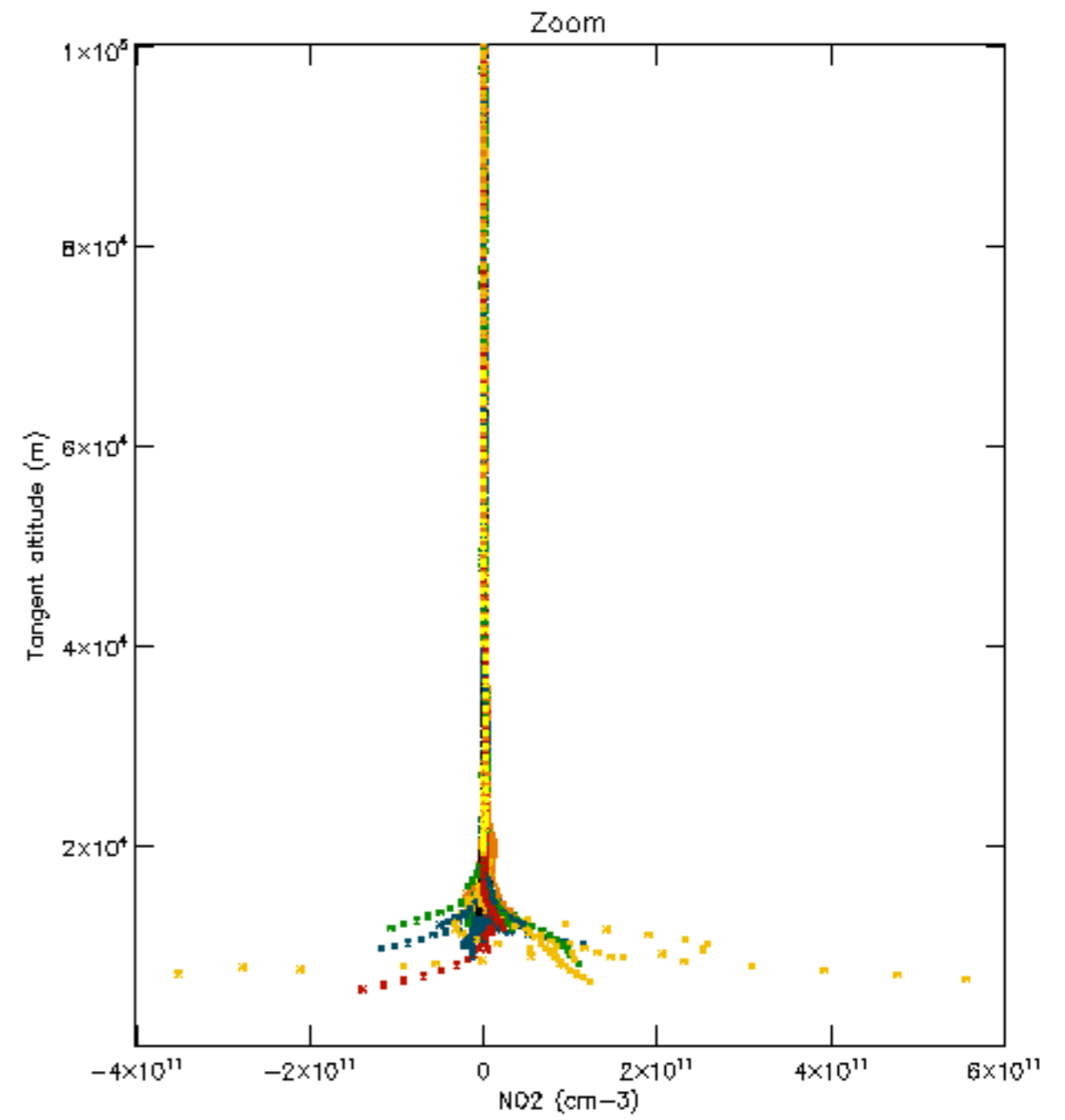
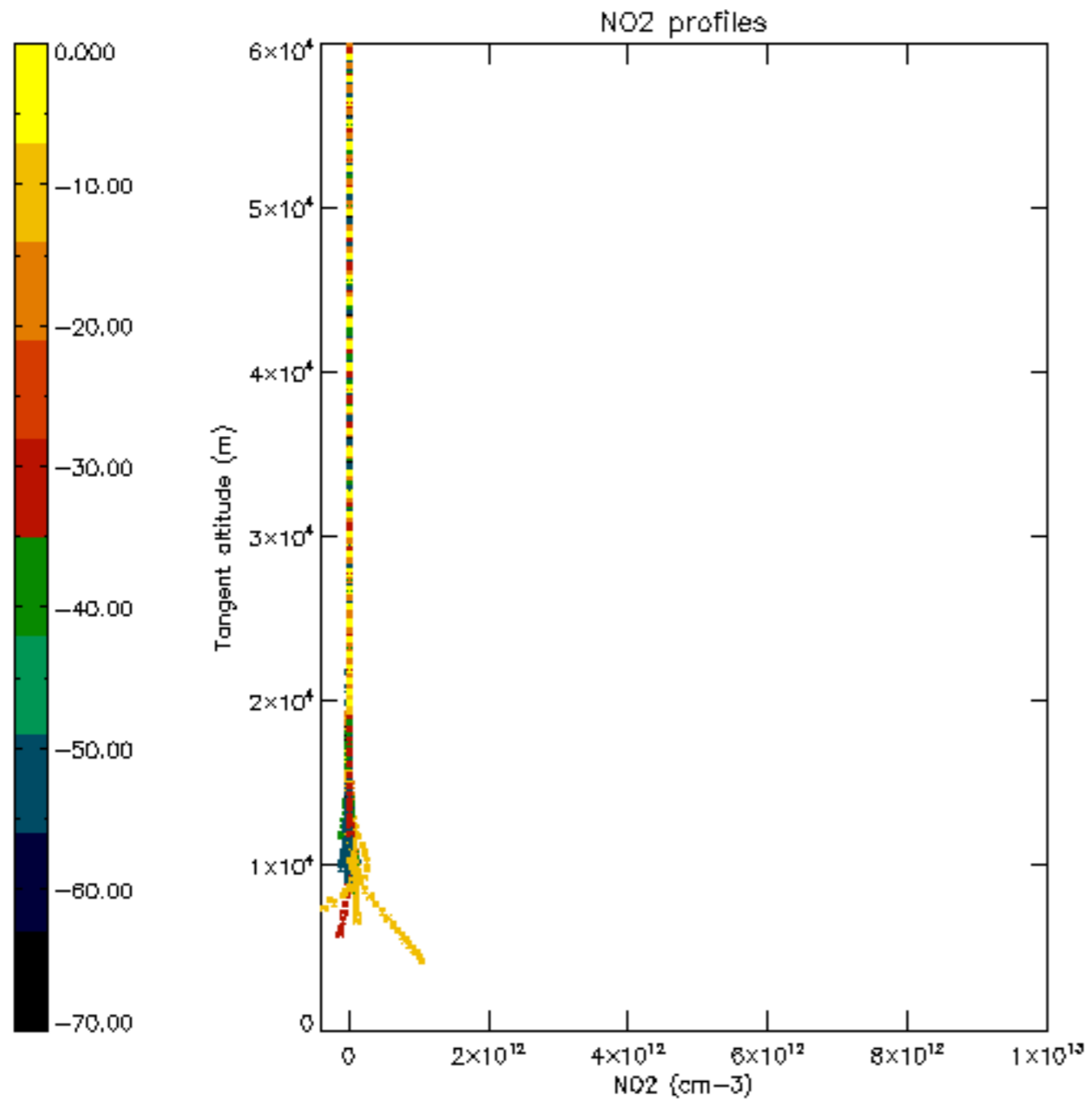


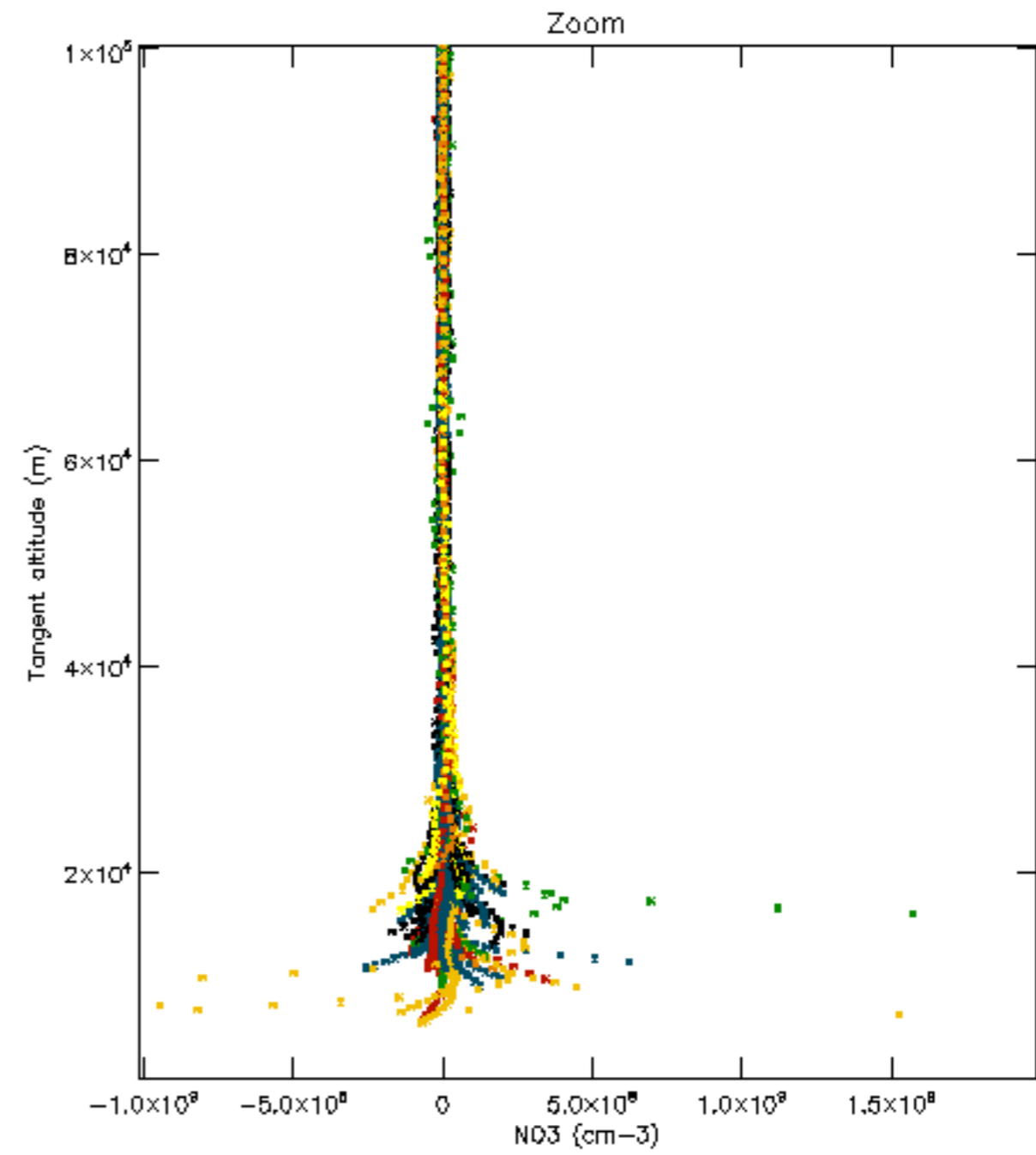
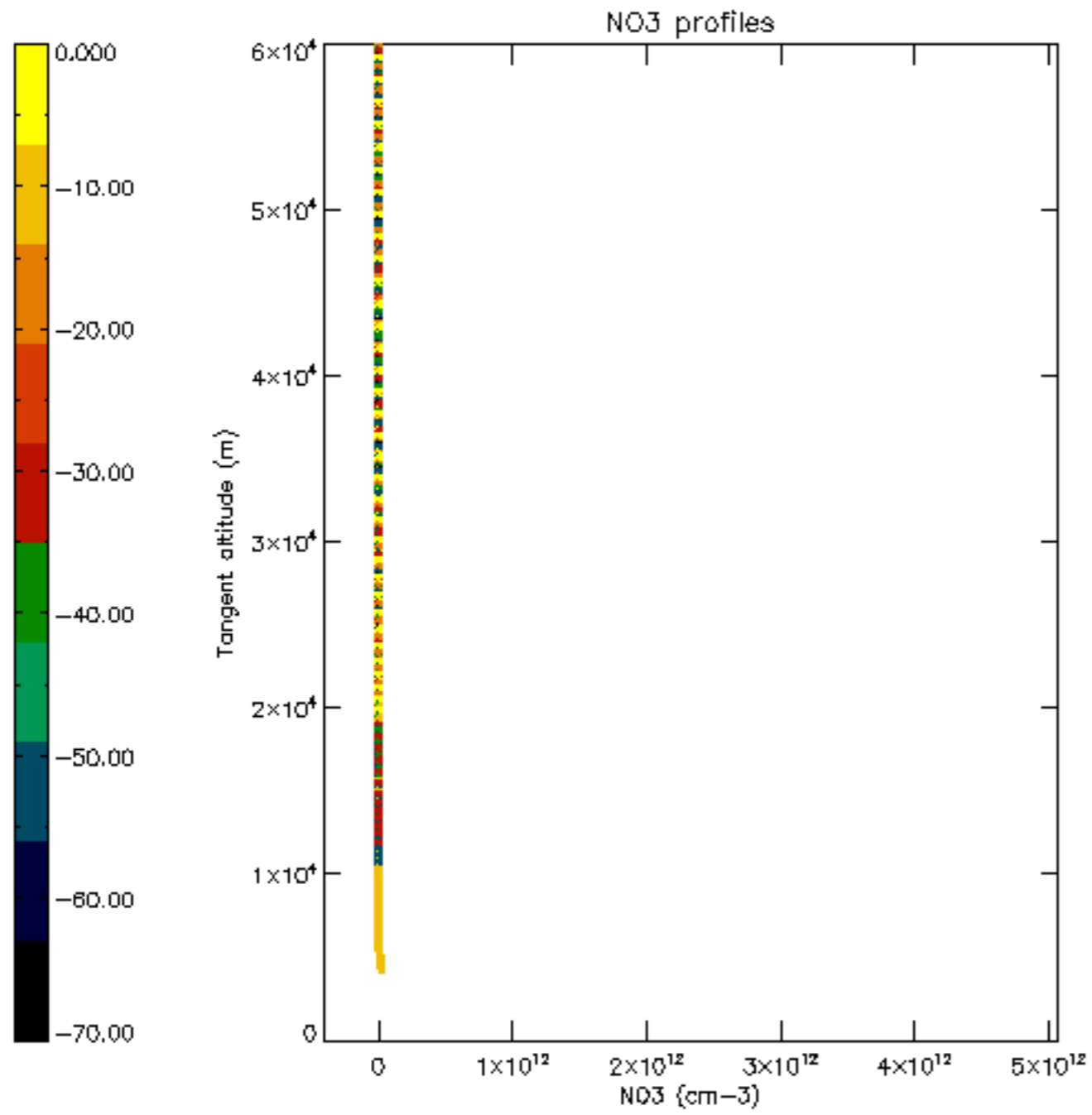


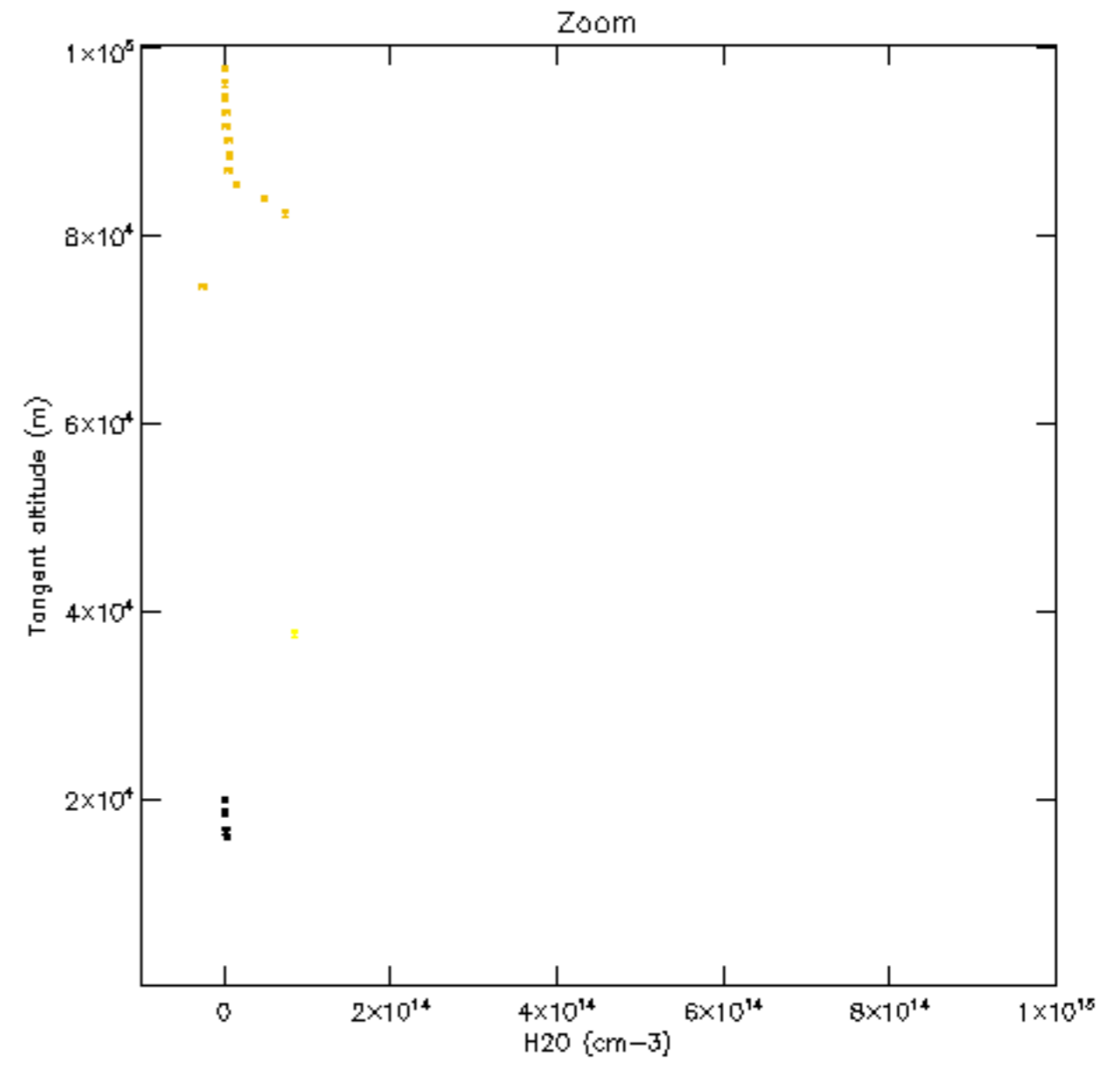
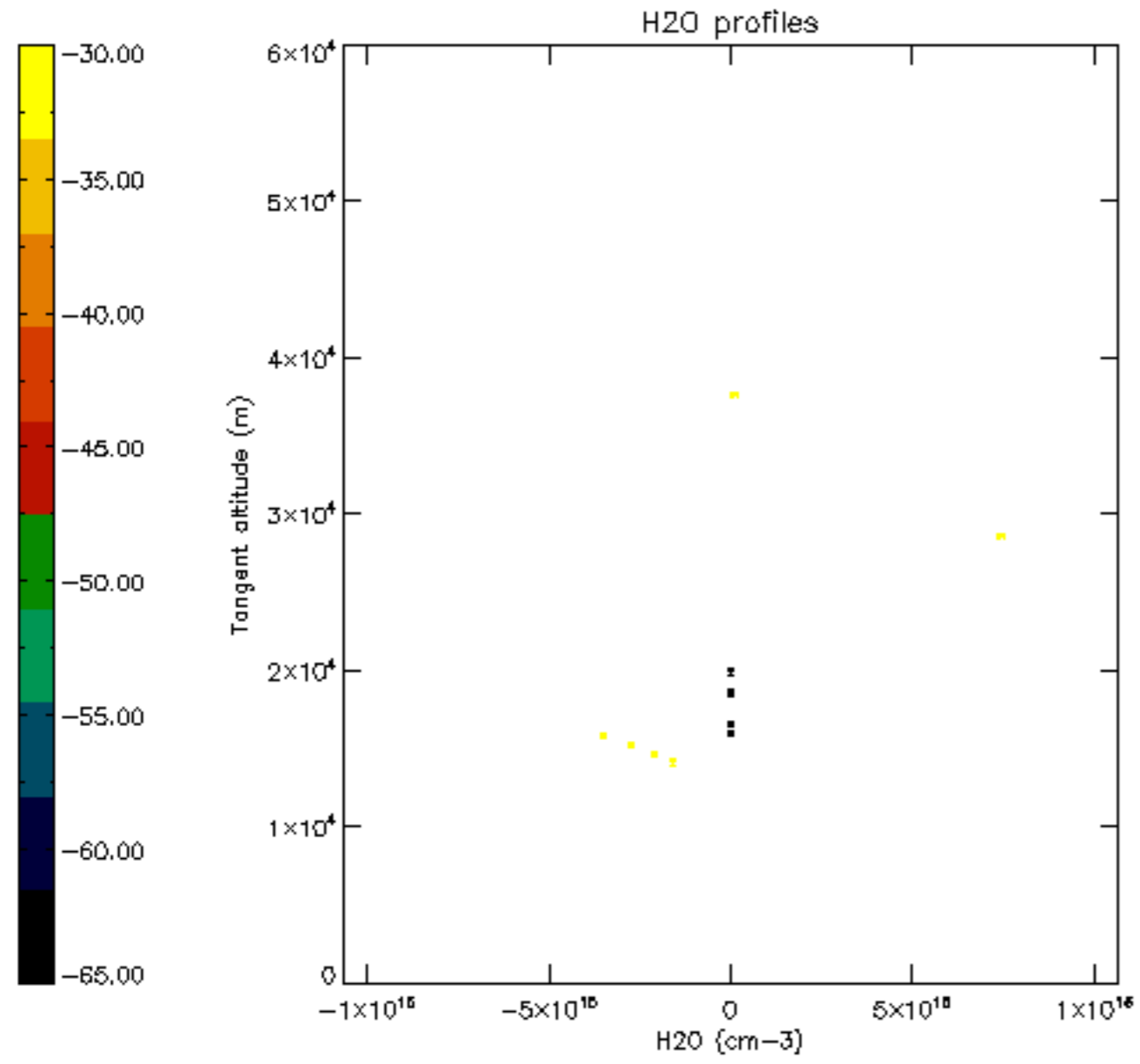


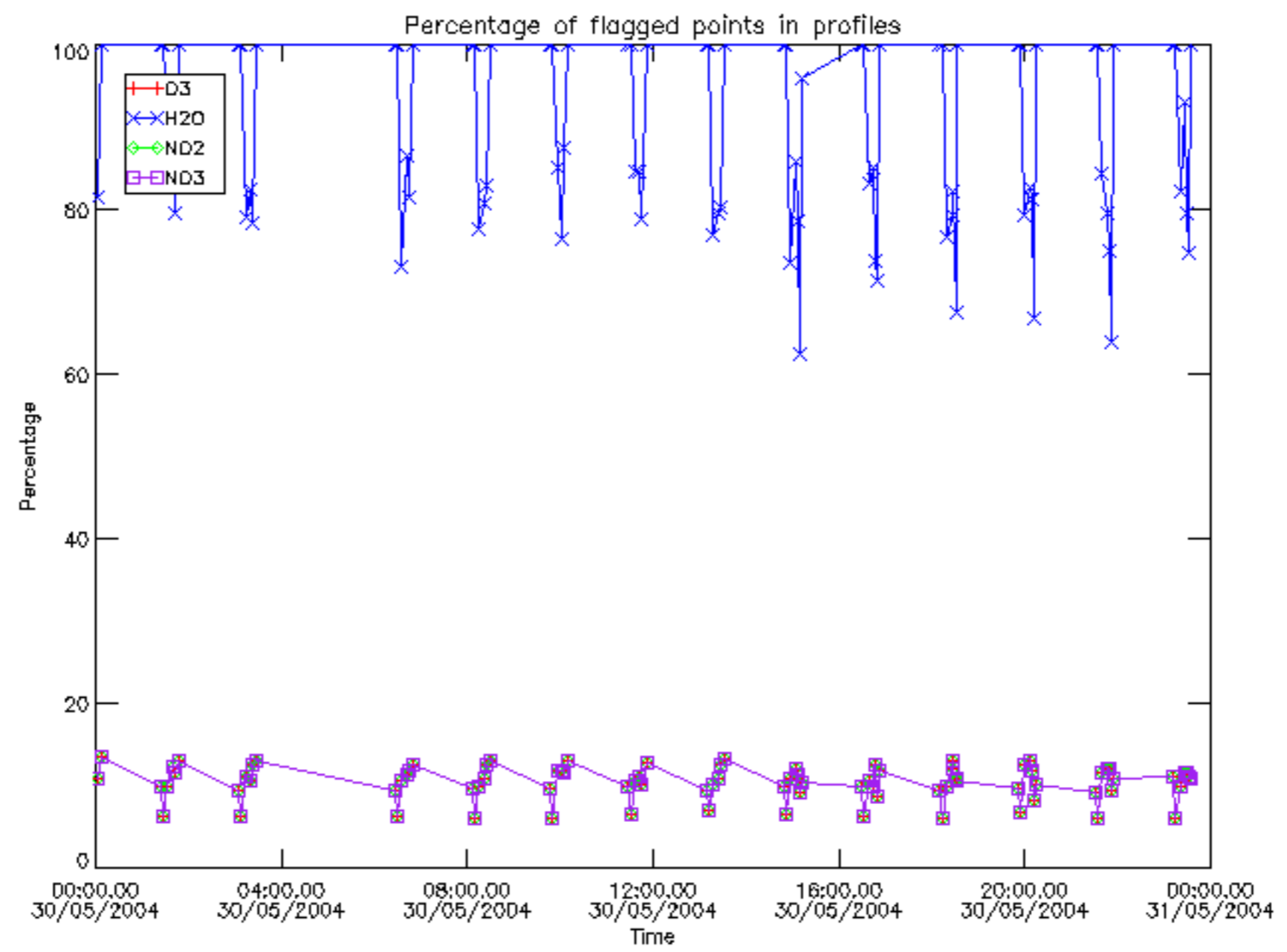




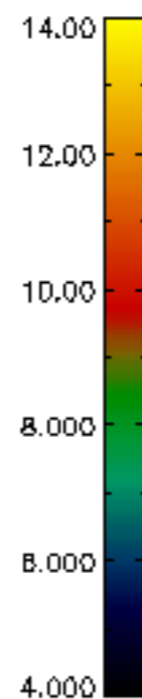
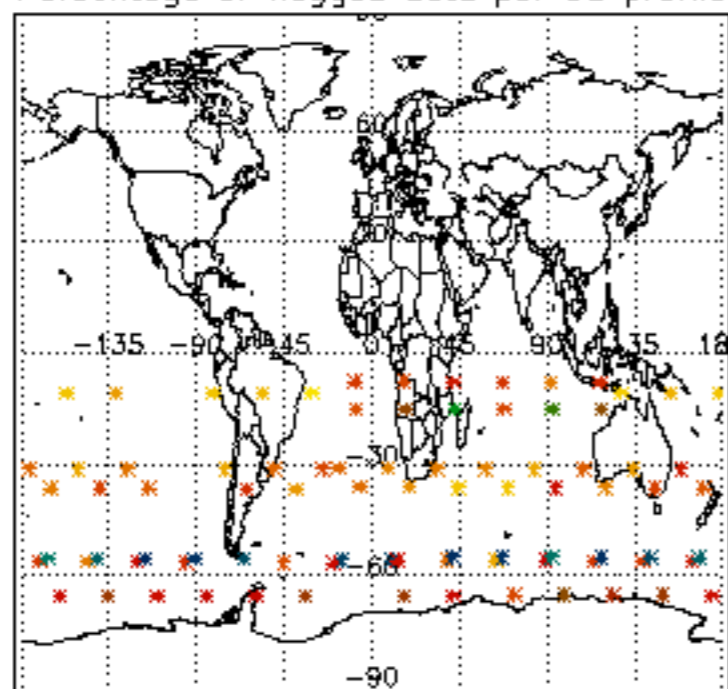




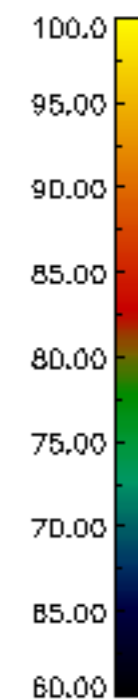
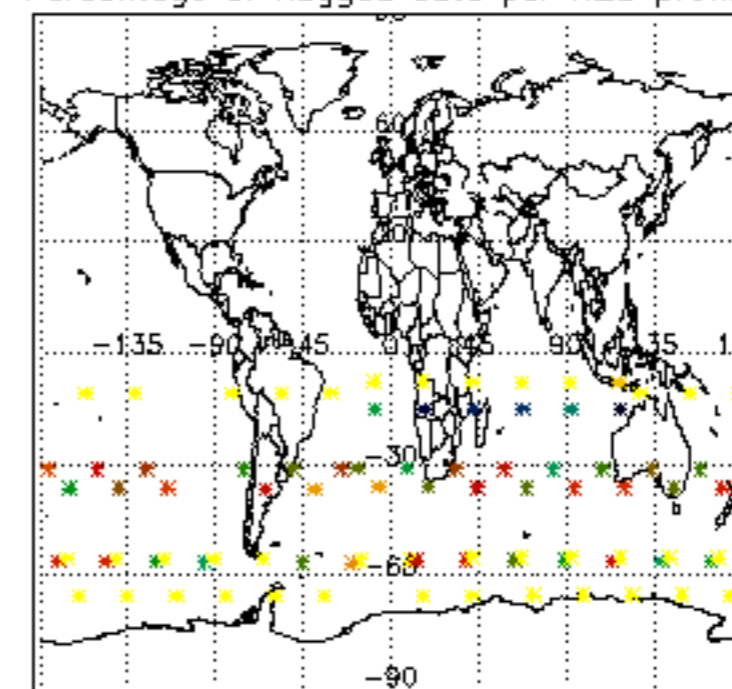




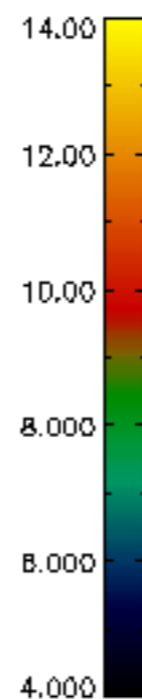
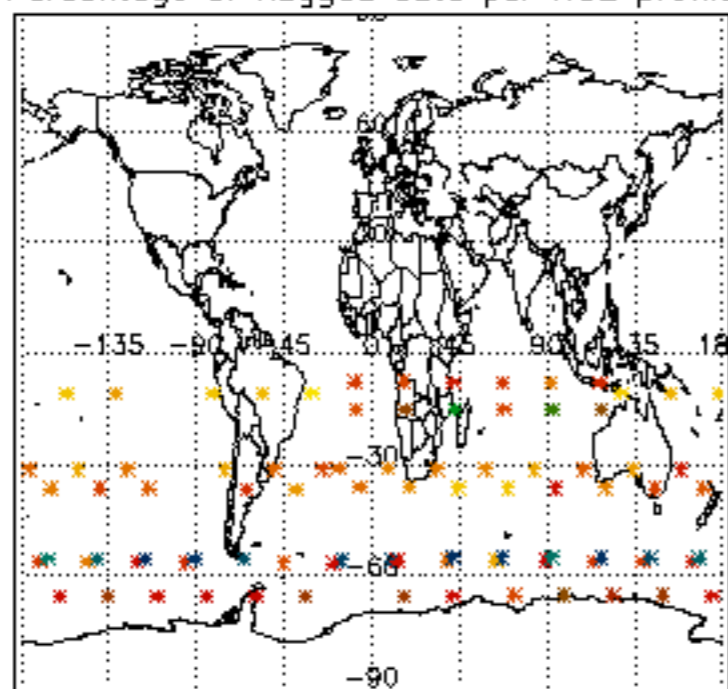
Percentage of flagged data per D3 profile



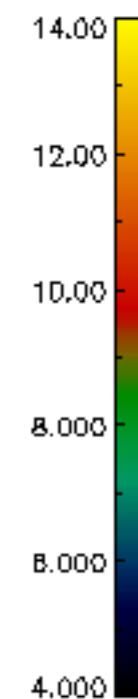
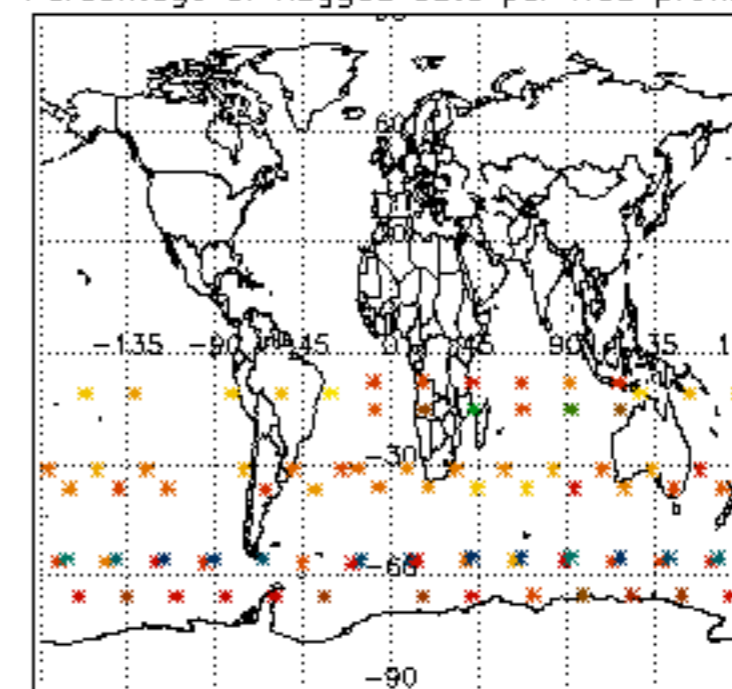
Percentage of flagged data per H2O profile

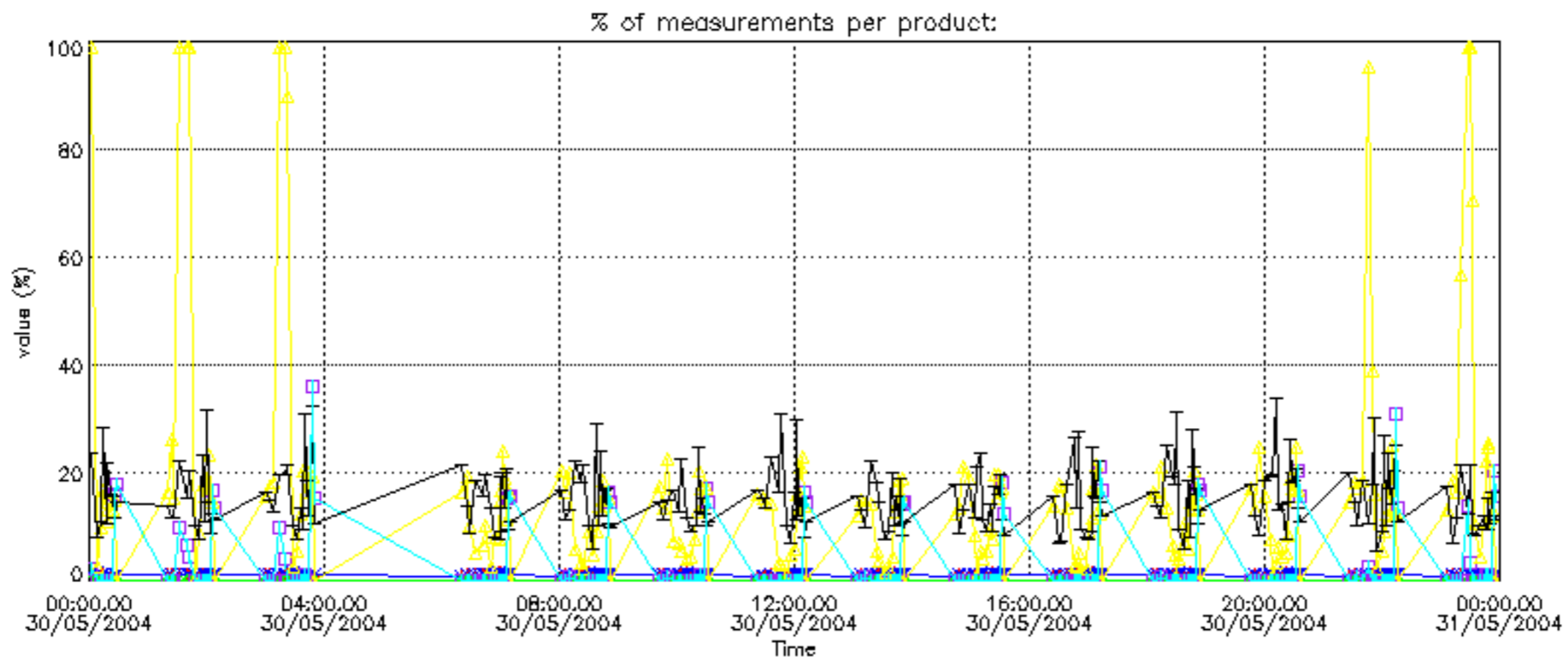
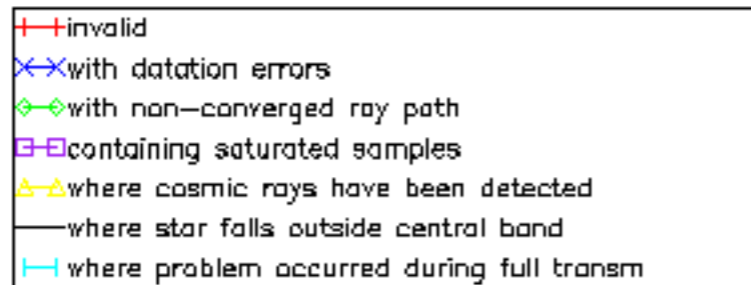


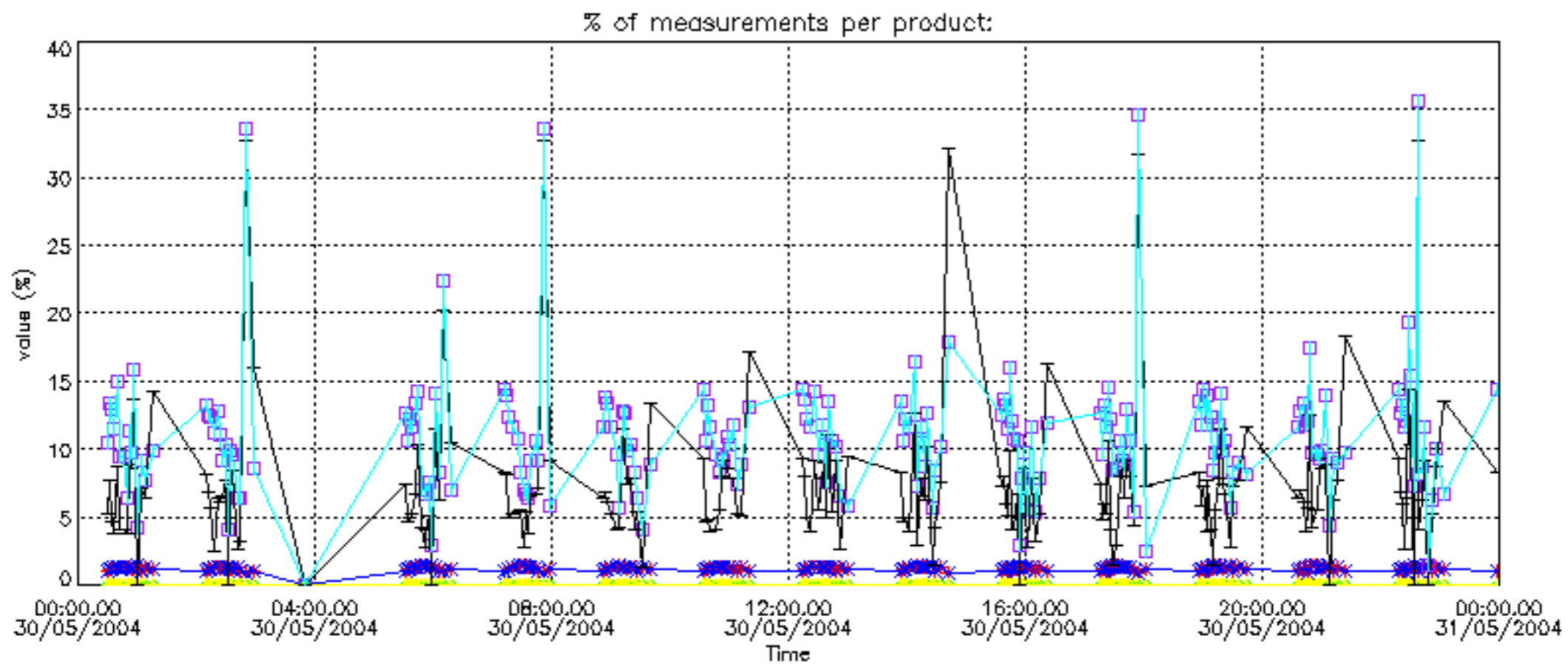
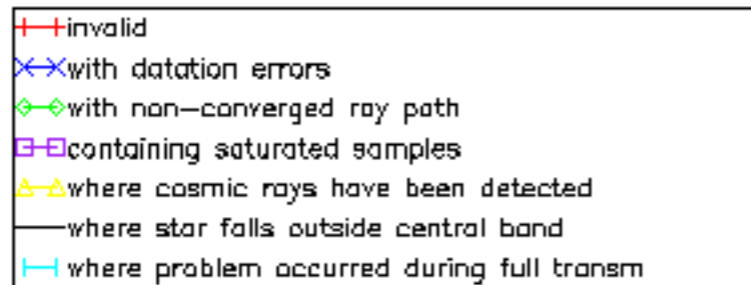
Percentage of flagged data per NO2 profile



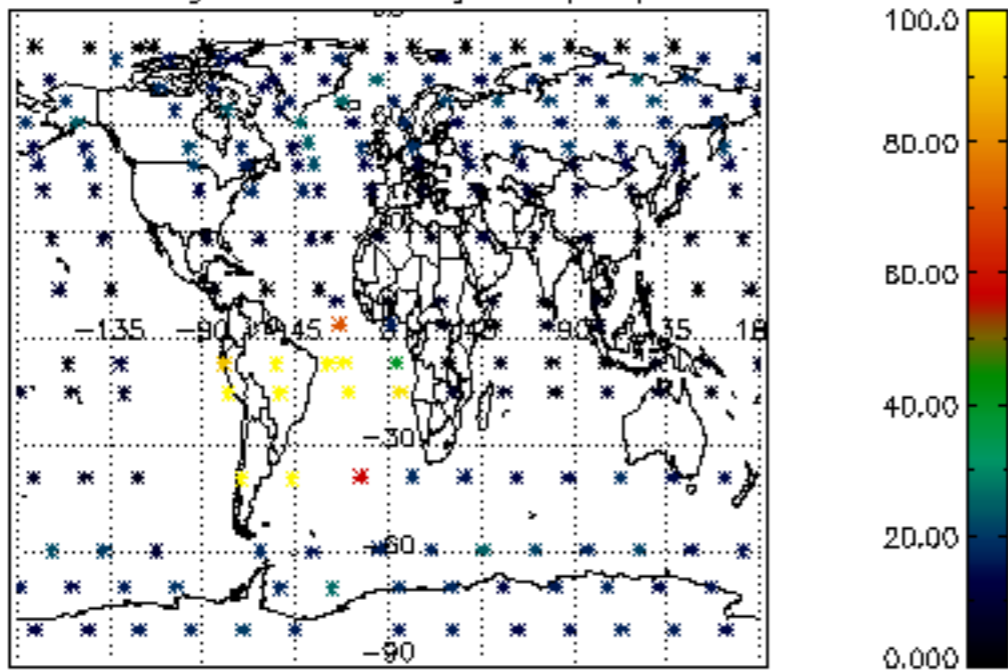
Percentage of flagged data per NO3 profile



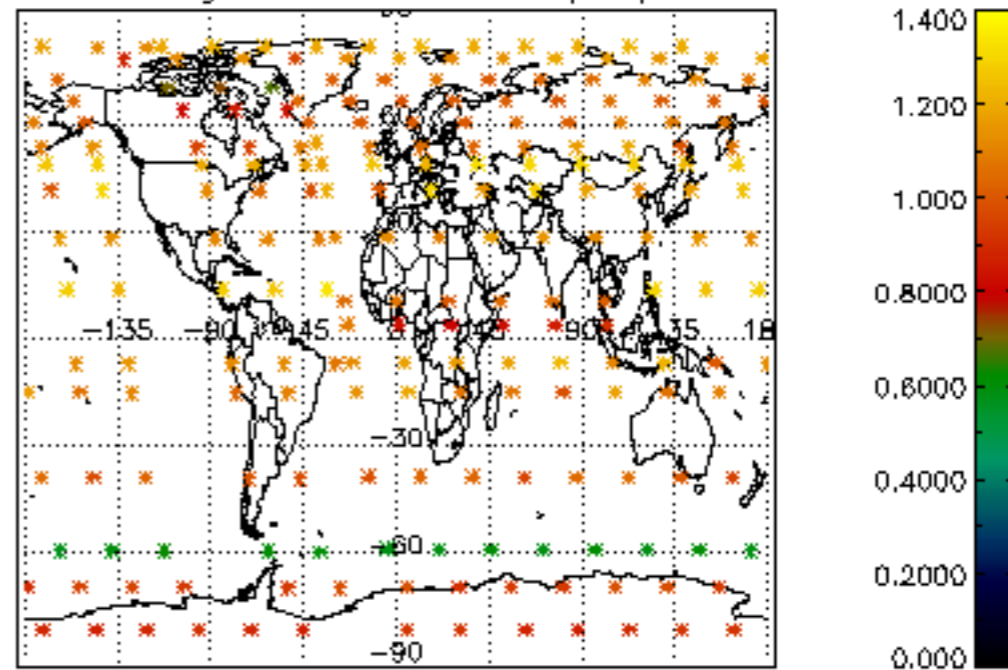




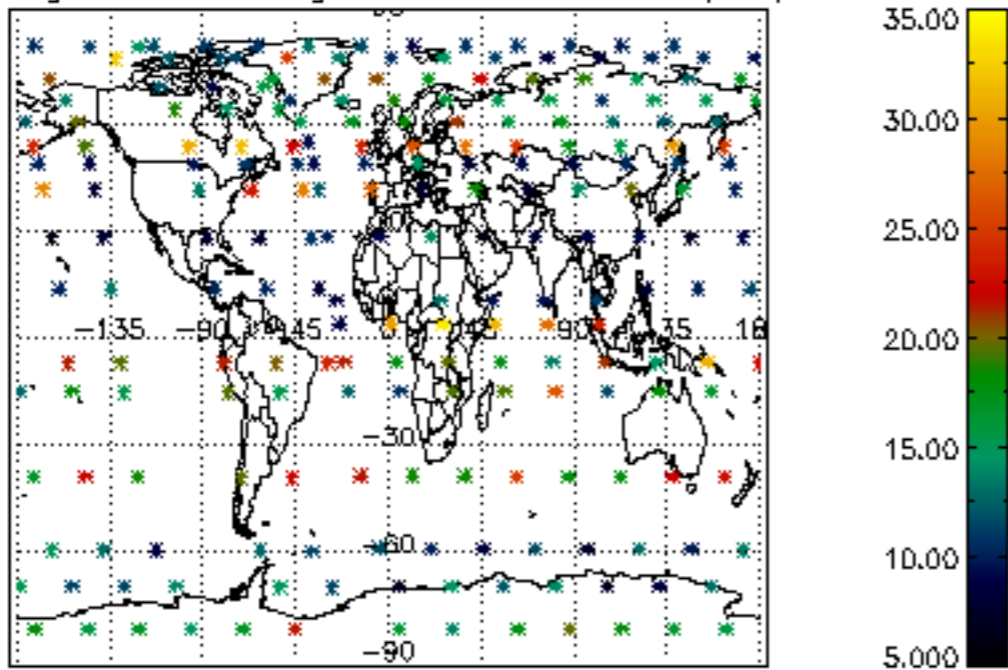
Percentage of cosmic ray hits per profile



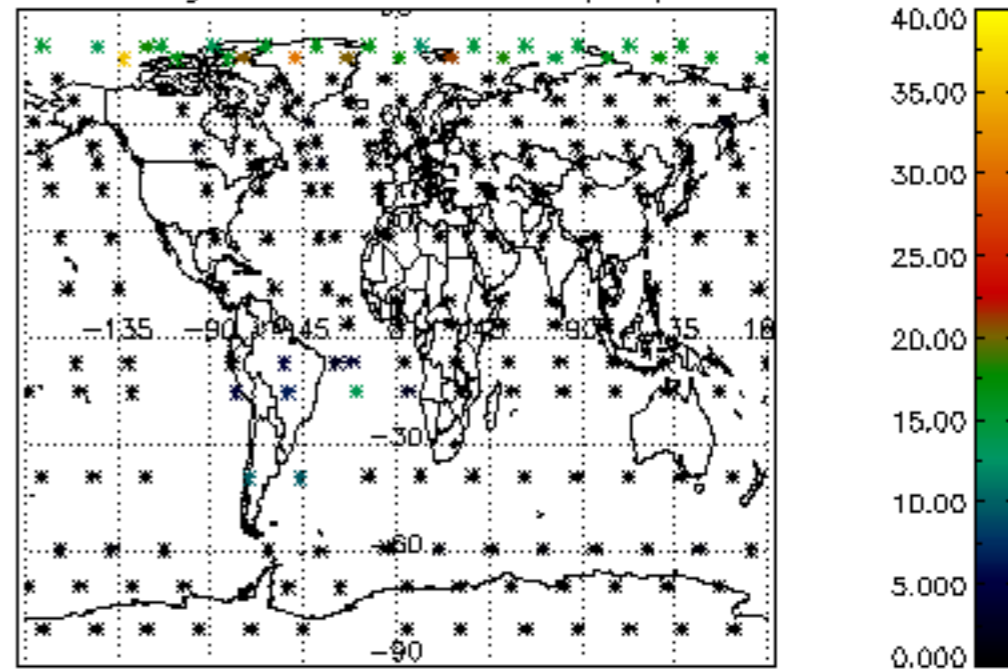
Percentage of datation errors per profile



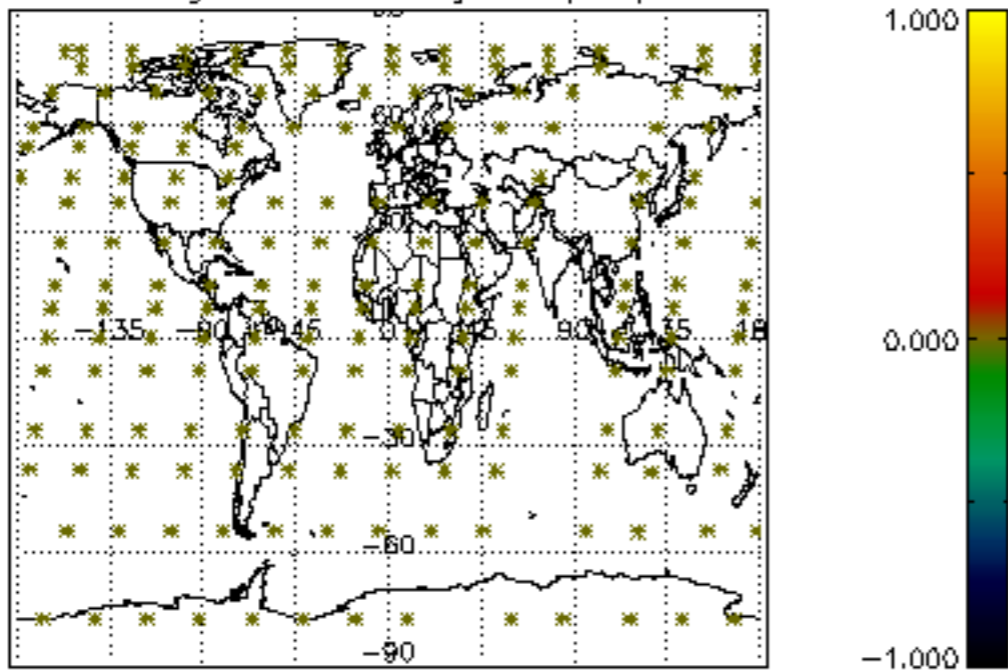
Percentage of star falling outside central band per profile



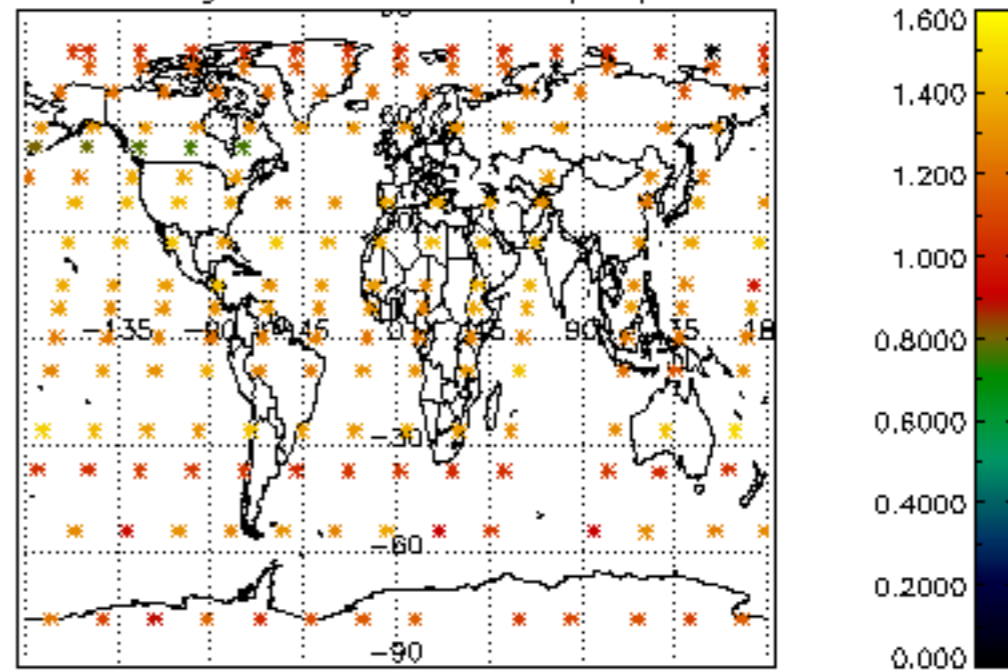
Percentage of saturation errors per profile



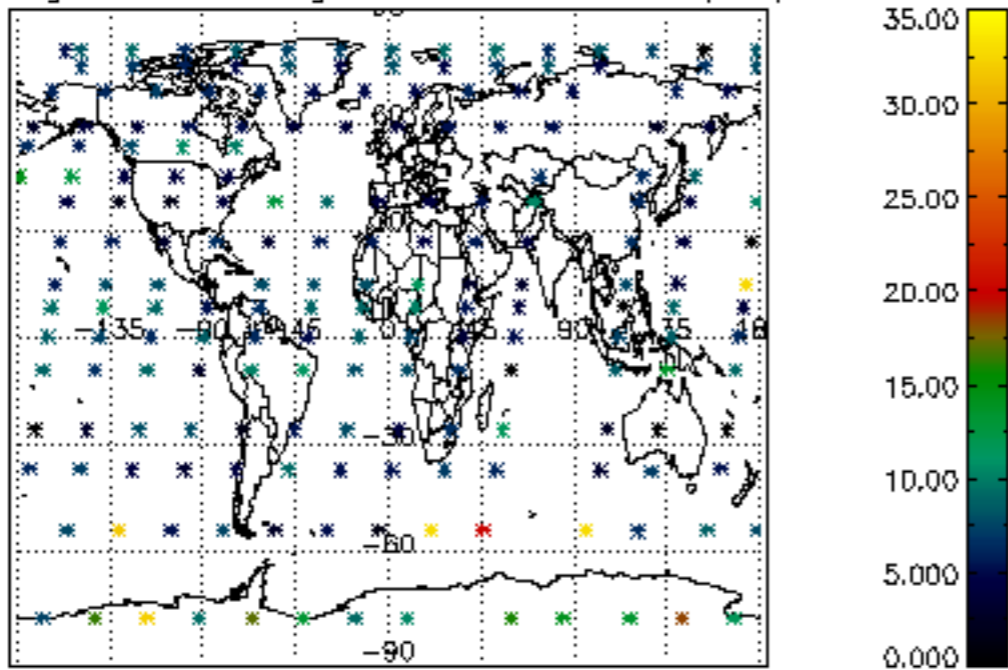
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

