

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	22APR2013 16:12:29
Data source version	GOMOS/6.01
Start time of products	27-02-2006 (27FEB2006 00:00:00)
Stop time of products	28-02-2006 (28FEB2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	299
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

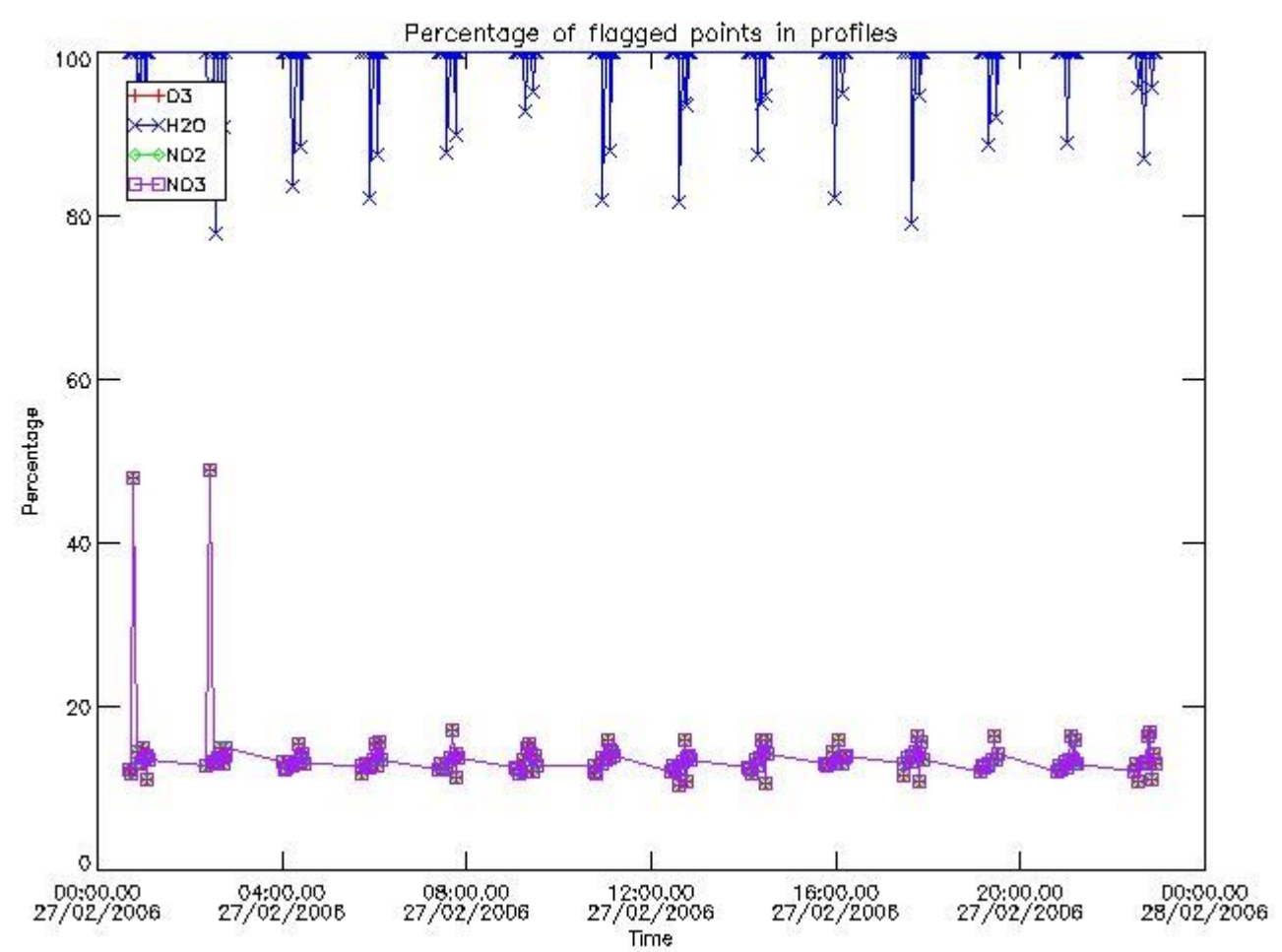
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060227_000835_000000352045_00288_20883_7633.N1	27-FEB-2006 00:08:35	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	20883	No
2	GOM_NL__2PRFIN20060227_001601_000000362045_00288_20883_7634.N1	27-FEB-2006 00:16:01	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	20883	No
3	GOM_NL__2PRFIN20060227_002107_000000342045_00288_20883_7635.N1	27-FEB-2006 00:21:07	Bright	33.500	19	50Alp Cyg	1.2460	10500.	67	20883	No
4	GOM_NL__2PRFIN20060227_002241_000000362045_00288_20883_7636.N1	27-FEB-2006 00:22:41	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	20883	No
5	GOM_NL__2PRFIN20060227_002412_000000342045_00288_20883_7637.N1	27-FEB-2006 00:24:12	Bright	34.000	92	53Eps Cyg	2.5000	4500.0	68	20883	No
6	GOM_NL__2PRFIN20060227_003125_000000372045_00288_20883_7638.N1	27-FEB-2006 00:31:25	Bright	36.500	118	50Gam Aql	2.7180	4600.0	73	20883	No
7	GOM_NL__2PRFIN20060227_004054_000000422045_00288_20883_7639.N1	27-FEB-2006 00:40:54	Dark	41.500	155	41Pi Sgr	2.9000	6600.0	83	20883	No
8	GOM_NL__2PRFIN20060227_004241_000000432045_00288_20883_7640.N1	27-FEB-2006 00:42:41	Dark	43.000	57	34Sig Sgr	2.0660	26000.	86	20883	No
9	GOM_NL__2PRFIN20060227_004544_000000472045_00288_20883_7641.N1	27-FEB-2006 00:45:44	Dark	46.500	38	20Eps Sgr	1.8360	11000.	93	20883	No
10	GOM_NL__2PRFIN20060227_005104_000000392045_00288_20883_7642.N1	27-FEB-2006 00:51:04	Dark	39.000	147	Alp Ara	2.8770	26000.	78	20883	No
11	GOM_NL__2PRFIN20060227_005221_000000402045_00289_20884_7622.N1	27-FEB-2006 00:52:21	Dark	39.500	141	Bet Ara	2.8400	4600.0	79	20884	No
12	GOM_NL__2PRFIN20060227_005620_000000392045_00289_20884_7623.N1	27-FEB-2006 00:56:20	Dark	39.000	134	Bet TrA	2.8100	6600.0	78	20884	No
13	GOM_NL__2PRFIN20060227_005852_000000342045_00289_20884_7624.N1	27-FEB-2006 00:58:52	Dark	34.000	4	Alp1Cen	-0.010000	5800.0	68	20884	No
14	GOM_NL__2PRFIN20060227_010137_000000372045_00289_20884_7625.N1	27-FEB-2006 01:01:37	Dark	37.000	112	Alp Mus	2.6880	26000.	74	20884	No
15	GOM_NL__2PRFIN20060227_010252_000000462045_00289_20884_7626.N1	27-FEB-2006 01:02:52	Dark	46.000	12	Alp1Cru	0.77500	30000.	92	20884	No
16	GOM_NL__2PRFIN20060227_010446_000000372045_00289_20884_7627.N1	27-FEB-2006 01:04:46	Dark	36.500	124	The Car	2.7640	30000.	73	20884	No
17	GOM_NL__2PRFIN20060227_010712_000000382045_00289_20884_7628.N1	27-FEB-2006 01:07:12	Dark	38.000	71	lot Car	2.2460	7700.0	76	20884	No
18	GOM_NL__2PRFIN20060227_011136_000000442045_00289_20884_7629.N1	27-FEB-2006 01:11:36	Straylight	43.500	65	Lam Vel	2.2040	4400.0	87	20884	No
19	GOM_NL__2PRFIN20060227_012108_000000442045_00289_20884_7630.N1	27-FEB-2006 01:21:08	Twilight_stray	44.000	48	30Alp Hya	1.9770	4100.0	88	20884	No
20	GOM_NL__2PRFIN20060227_013214_000000372045_00289_20884_7631.N1	27-FEB-2006 01:32:14	Bright	37.000	17	78Bet Gem	1.1610	4500.0	74	20884	No
21	GOM_NL__2PRFIN20060227_013327_000000352045_00289_20884_7632.N1	27-FEB-2006 01:33:27	Bright	35.000	24	66Alp Gem	1.5800	10200.	70	20884	No
22	GOM_NL__2PRFIN20060227_014911_000000322045_00289_20884_7633.N1	27-FEB-2006 01:49:11	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	20884	No
23	GOM_NL__2PRFIN20060227_015637_000000322045_00289_20884_7634.N1	27-FEB-2006 01:56:37	Bright	32.000	89	5Alp Cep	2.4510	8000.0	64	20884	No
24	GOM_NL__2PRFIN20060227_020143_000000362045_00289_20884_7635.N1	27-FEB-2006 02:01:43	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	20884	No
25	GOM_NL__2PRFIN20060227_020317_000000372045_00289_20884_7636.N1	27-FEB-2006 02:03:17	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	20884	No
26	GOM_NL__2PRFIN20060227_020448_000000362045_00289_20884_7637.N1	27-FEB-2006 02:04:48	Bright	35.500	92	53Eps Cyg	2.5000	4500.0	71	20884	No
27	GOM_NL__2PRFIN20060227_021201_000000362045_00289_20884_7638.N1	27-FEB-2006 02:12:01	Bright	35.500	118	50Gam Aql	2.7180	4600.0	71	20884	No
28	GOM_NL__2PRFIN20060227_022130_000000402045_00289_20884_7639.N1	27-FEB-2006 02:21:30	Dark	40.000	155	41Pi Sgr	2.9000	6600.0	80	20884	No
29	GOM_NL__2PRFIN20060227_022620_000000452045_00289_20884_7640.N1	27-FEB-2006 02:26:20	Dark	44.500	38	20Eps Sgr	1.8360	11000.	89	20884	No
30	GOM_NL__2PRFIN20060227_023140_000000392045_00289_20884_7641.N1	27-FEB-2006 02:31:40	Dark	38.500	147	Alp Ara	2.8770	26000.	77	20884	No
31	GOM_NL__2PRFIN20060227_023257_000000392045_00290_20885_7622.N1	27-FEB-2006 02:32:57	Dark	39.000	141	Bet Ara	2.8400	4600.0	78	20885	No
32	GOM_NL__2PRFIN20060227_023656_000000372045_00290_20885_7623.N1	27-FEB-2006 02:36:56	Dark	37.000	134	Bet TrA	2.8100	6600.0	74	20885	No
33	GOM_NL__2PRFIN20060227_023929_000000342045_00290_20885_7624.N1	27-FEB-2006 02:39:29	Dark	34.000	4	Alp1Cen	-0.010000	5800.0	68	20885	No
34	GOM_NL__2PRFIN20060227_024214_000000372045_00290_20885_7625.N1	27-FEB-2006 02:42:14	Dark	37.000	112	Alp Mus	2.6880	26000.	74	20885	No
35	GOM_NL__2PRFIN20060227_024328_000000392045_00290_20885_7626.N1	27-FEB-2006 02:43:28	Dark	39.000	12	Alp1Cru	0.77500	30000.	78	20885	No
36	GOM_NL__2PRFIN20060227_024522_000000372045_00290_20885_7627.N1	27-FEB-2006 02:45:22	Dark	36.500	124	The Car	2.7640	30000.	73	20885	No
37	GOM_NL__2PRFIN20060227_024748_000000382045_00290_20885_7628.N1	27-FEB-2006 02:47:48	Dark	37.500	71	lot Car	2.2460	7700.0	75	20885	No
38	GOM_NL__2PRFIN20060227_025212_000000452045_00290_20885_7629.N1	27-FEB-2006 02:52:12	Straylight	44.500	65	Lam Vel	2.2040	4400.0	89	20885	No
39	GOM_NL__2PRFIN20060227_030144_000000502045_00290_20885_7630.N1	27-FEB-2006 03:01:44	Twilight_stray	49.500	48	30Alp Hya	1.9770	4100.0	99	20885	No
40	GOM_NL__2PRFIN20060227_031250_000000382045_00290_20885_7631.N1	27-FEB-2006 03:12:50	Bright	37.500	17	78Bet Gem	1.1610	4500.0	75	20885	No
41	GOM_NL__2PRFIN20060227_031403_000000382045_00290_20885_7632.N1	27-FEB-2006 03:14:03	Bright	38.000	24	66Alp Gem	1.5800	10200.	76	20885	No
42	GOM_NL__2PRFIN20060227_032947_000000342045_00290_20885_7633.N1	27-FEB-2006 03:29:47	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	20885	No

279	GOM_NL__2PRFIN20060227_222846_000000422045_00301_20896_7661.N1	27-FEB-2006 22:28:46	Dark	42.000	155	41Pi Sgr	2.9000	6600.0	84	20896	No
280	GOM_NL__2PRFIN20060227_223034_000000432045_00301_20896_7662.N1	27-FEB-2006 22:30:34	Dark	43.000	57	34Sig Sgr	2.0660	26000.	86	20896	No
281	GOM_NL__2PRFIN20060227_223339_000000472045_00301_20896_7663.N1	27-FEB-2006 22:33:39	Dark	46.500	38	20Eps Sgr	1.8360	11000.	93	20896	No
282	GOM_NL__2PRFIN20060227_223859_000000392045_00301_20896_7664.N1	27-FEB-2006 22:38:59	Dark	39.000	147	Alp Ara	2.8770	26000.	78	20896	No
283	GOM_NL__2PRFIN20060227_224015_000000392045_00302_20897_7665.N1	27-FEB-2006 22:40:15	Dark	39.000	141	Bet Ara	2.8400	4600.0	78	20897	No
284	GOM_NL__2PRFIN20060227_224414_000000392045_00302_20897_7666.N1	27-FEB-2006 22:44:14	Dark	38.500	134	Bet TrA	2.8100	6600.0	77	20897	No
285	GOM_NL__2PRFIN20060227_224647_000000312045_00302_20897_7667.N1	27-FEB-2006 22:46:47	Dark	31.000	4	Alp1Cen	-0.010000	5800.0	62	20897	No
286	GOM_NL__2PRFIN20060227_224929_000000372045_00302_20897_7668.N1	27-FEB-2006 22:49:29	Dark	36.500	112	Alp Mus	2.6880	26000.	73	20897	No
287	GOM_NL__2PRFIN20060227_225044_000000462045_00302_20897_7669.N1	27-FEB-2006 22:50:44	Dark	45.500	12	Alp1Cru	0.77500	30000.	91	20897	No
288	GOM_NL__2PRFIN20060227_225237_000000362045_00302_20897_7670.N1	27-FEB-2006 22:52:37	Dark	36.000	124	The Car	2.7640	30000.	72	20897	No
289	GOM_NL__2PRFIN20060227_225501_000000392045_00302_20897_7671.N1	27-FEB-2006 22:55:01	Dark	39.000	71	lot Car	2.2460	7700.0	78	20897	No
290	GOM_NL__2PRFIN20060227_225925_000000432045_00302_20897_7672.N1	27-FEB-2006 22:59:25	Straylight	42.500	65	Lam Vel	2.2040	4400.0	85	20897	No
291	GOM_NL__2PRFIN20060227_230857_000000442045_00302_20897_7673.N1	27-FEB-2006 23:08:57	Twilight_stray	43.500	48	30Alp Hya	1.9770	4100.0	87	20897	No
292	GOM_NL__2PRFIN20060227_232005_000000372045_00302_20897_7674.N1	27-FEB-2006 23:20:05	Bright	36.500	17	78Bet Gem	1.1610	4500.0	73	20897	No
293	GOM_NL__2PRFIN20060227_232118_000000362045_00302_20897_7675.N1	27-FEB-2006 23:21:18	Bright	35.500	24	66Alp Gem	1.5800	10200.	71	20897	No
294	GOM_NL__2PRFIN20060227_233658_000000352045_00302_20897_7676.N1	27-FEB-2006 23:36:58	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	20897	No
295	GOM_NL__2PRFIN20060227_234426_000000362045_00302_20897_7677.N1	27-FEB-2006 23:44:26	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	20897	No
296	GOM_NL__2PRFIN20060227_234931_000000352045_00302_20897_7678.N1	27-FEB-2006 23:49:31	Bright	34.500	19	50Alp Cyg	1.2460	10500.	69	20897	No
297	GOM_NL__2PRFIN20060227_235105_000000372045_00302_20897_7679.N1	27-FEB-2006 23:51:05	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	20897	No
298	GOM_NL__2PRFIN20060227_235237_000000352045_00302_20897_7680.N1	27-FEB-2006 23:52:37	Bright	34.500	92	53Eps Cyg	2.5000	4500.0	69	20897	No
299	GOM_NL__2PRFIN20060227_235951_000000372045_00302_20897_7681.N1	27-FEB-2006 23:59:51	Bright	36.500	118	50Gam Aql	2.7180	4600.0	73	20897	No

3. Quality information per product

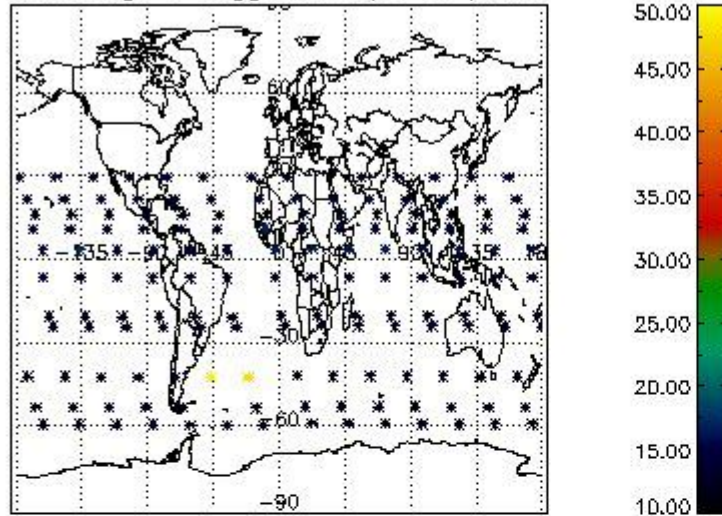
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

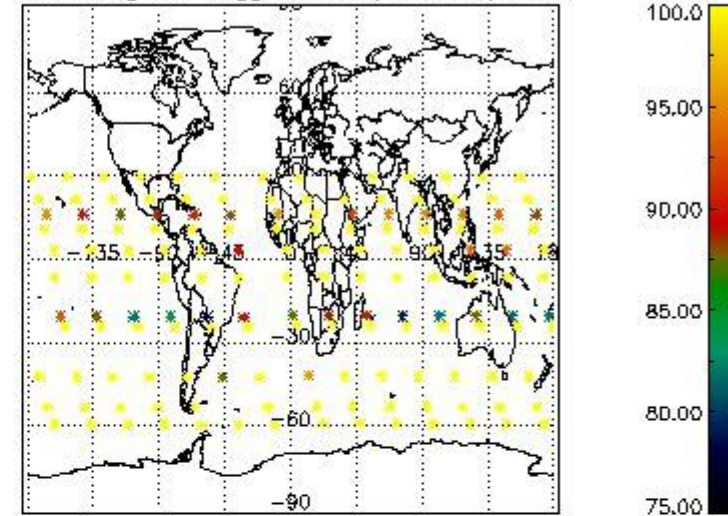


3.2 Plot quality information per product (world map)

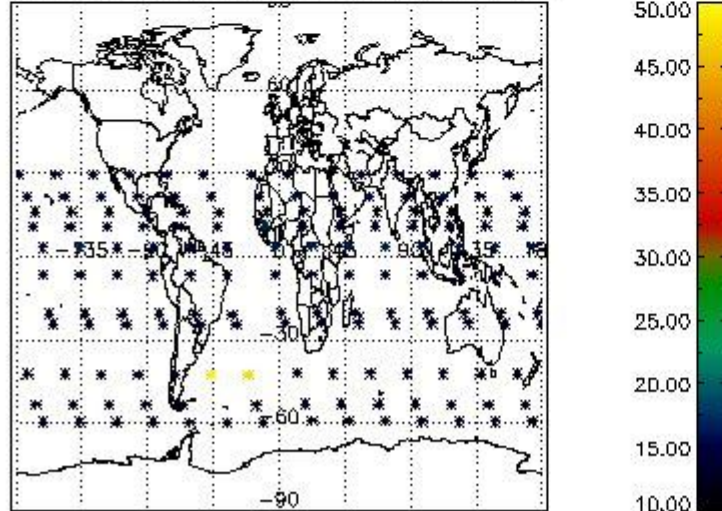
Percentage of flagged data per O3 profile



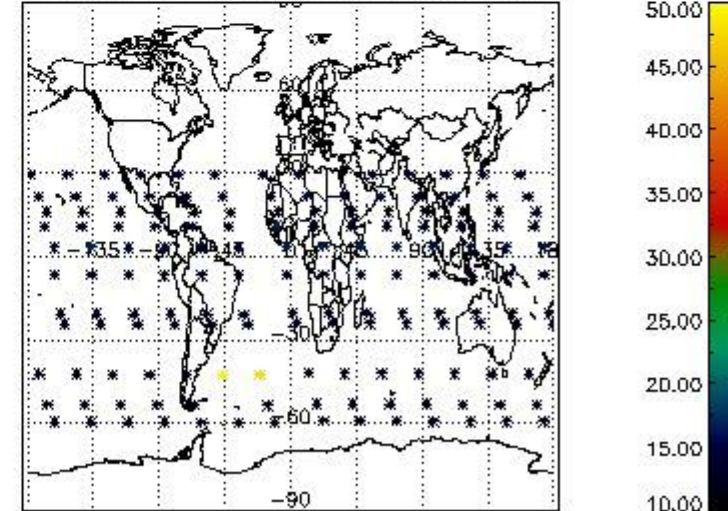
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

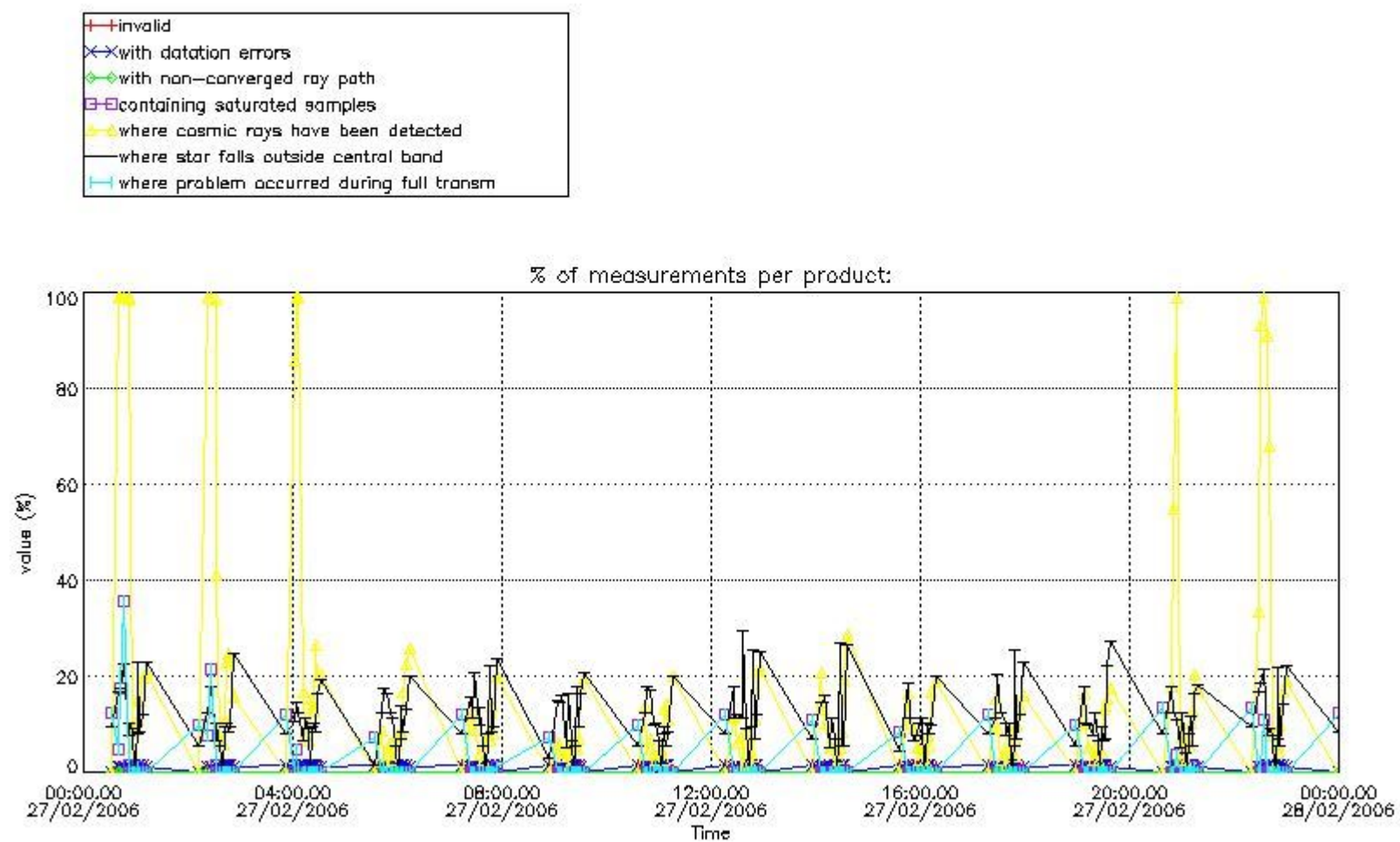


4. Level 1 quality information per product

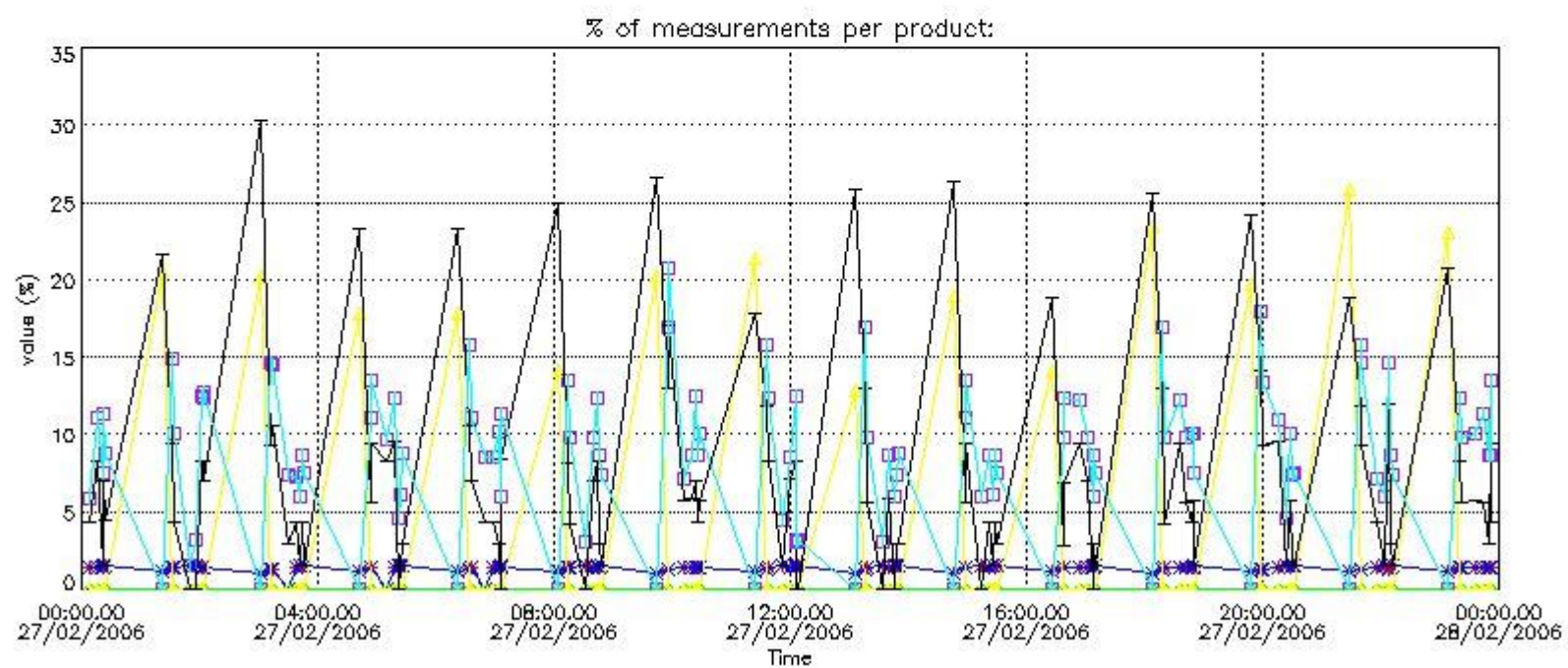
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



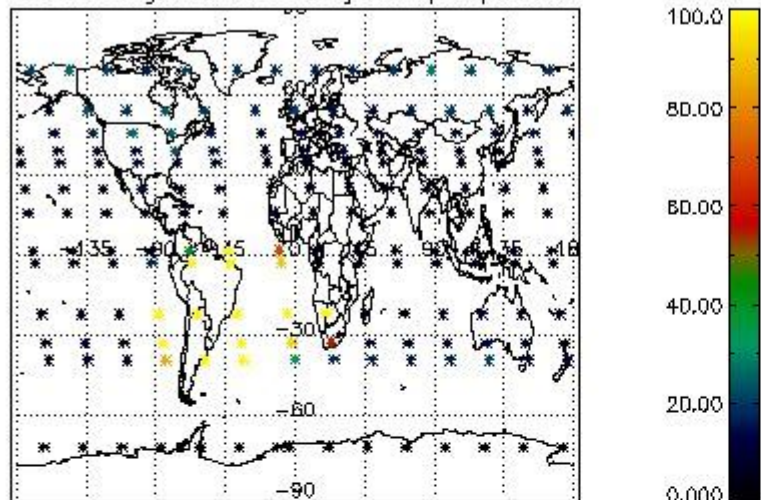
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



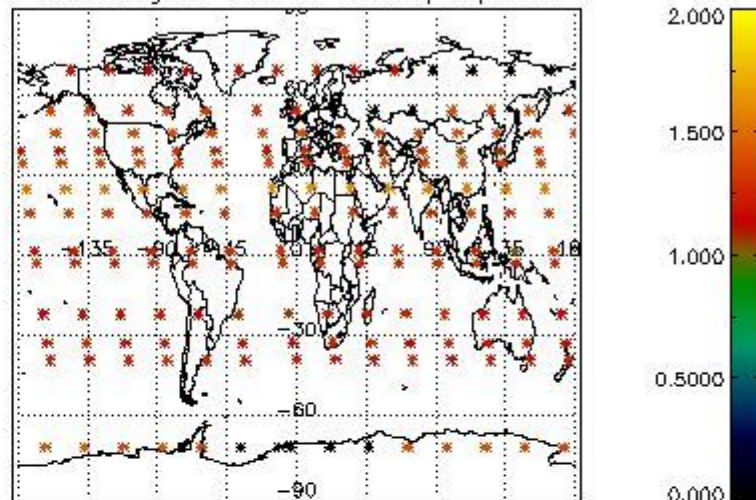
4.2 Plot quality information per product coming from level 1b processing (world map)

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

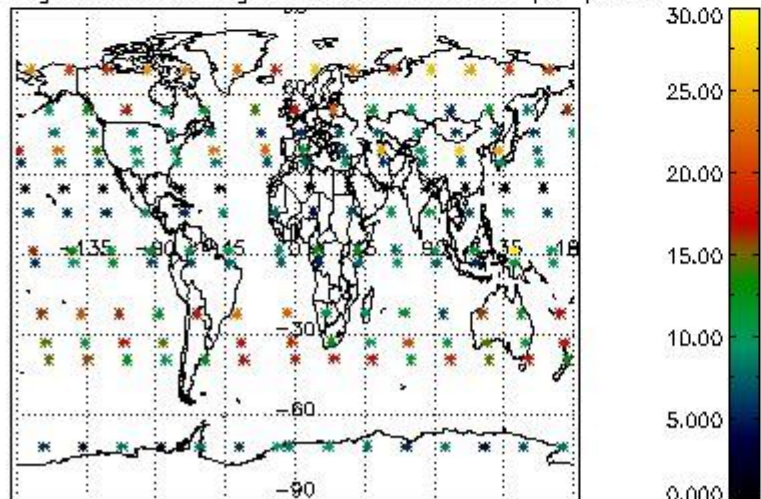
Percentage of cosmic ray hits per profile



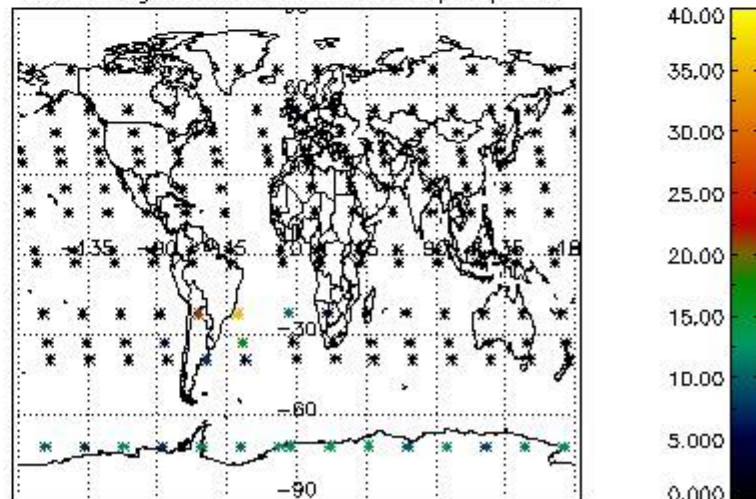
Percentage of datation errors per profile



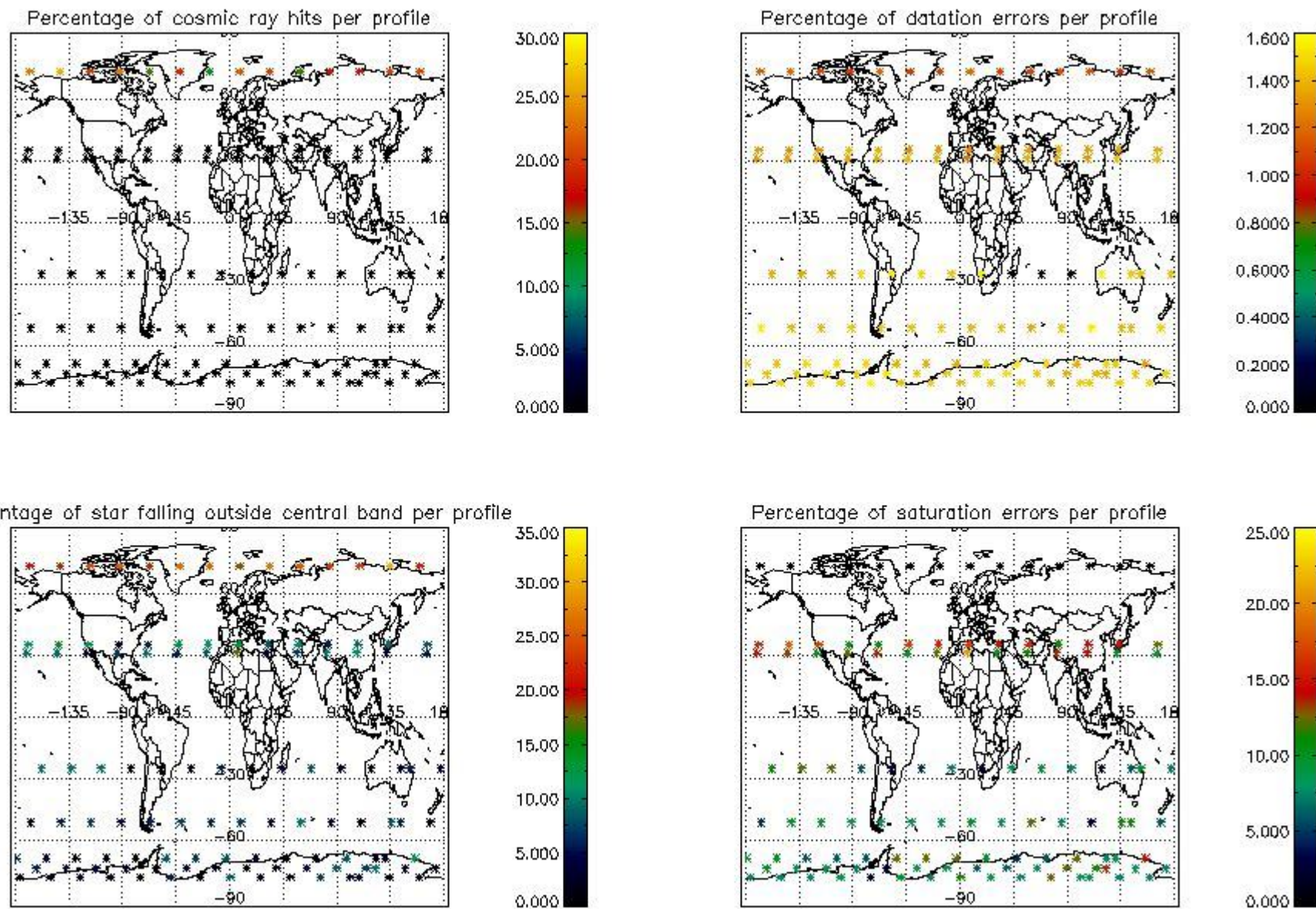
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

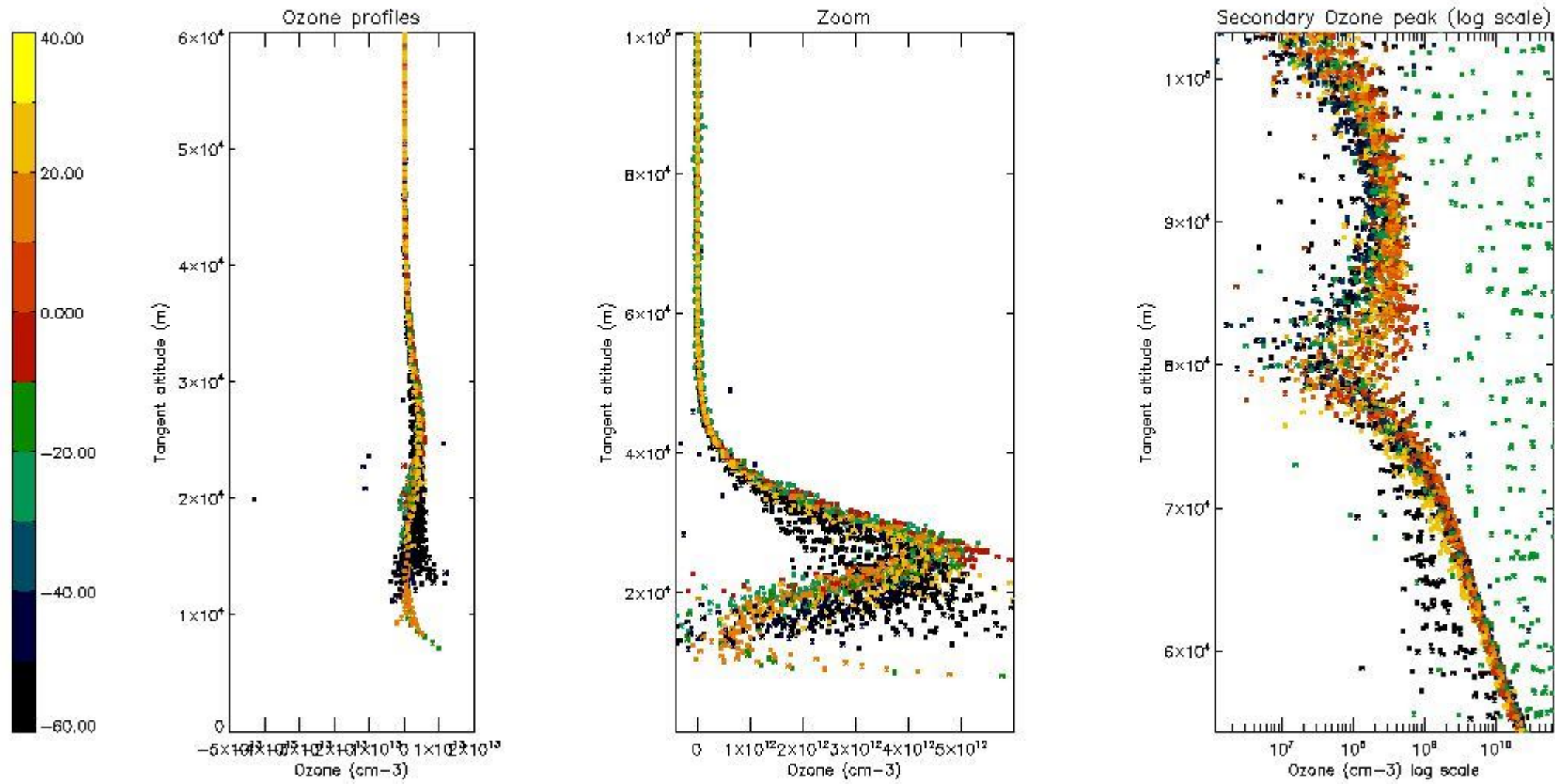
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	53
STD < 20	31

STD < 10	23
STD < 5	15

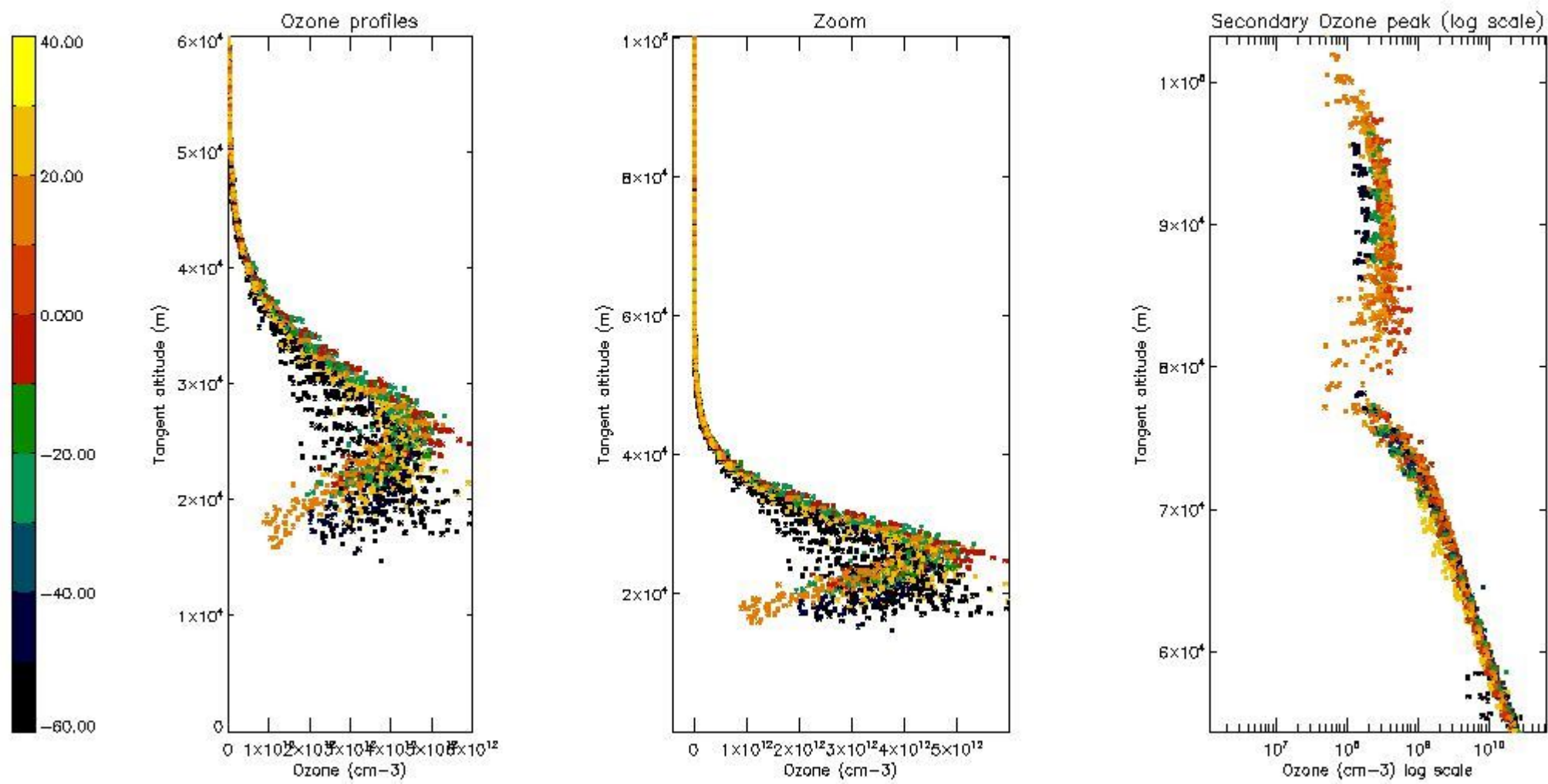
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



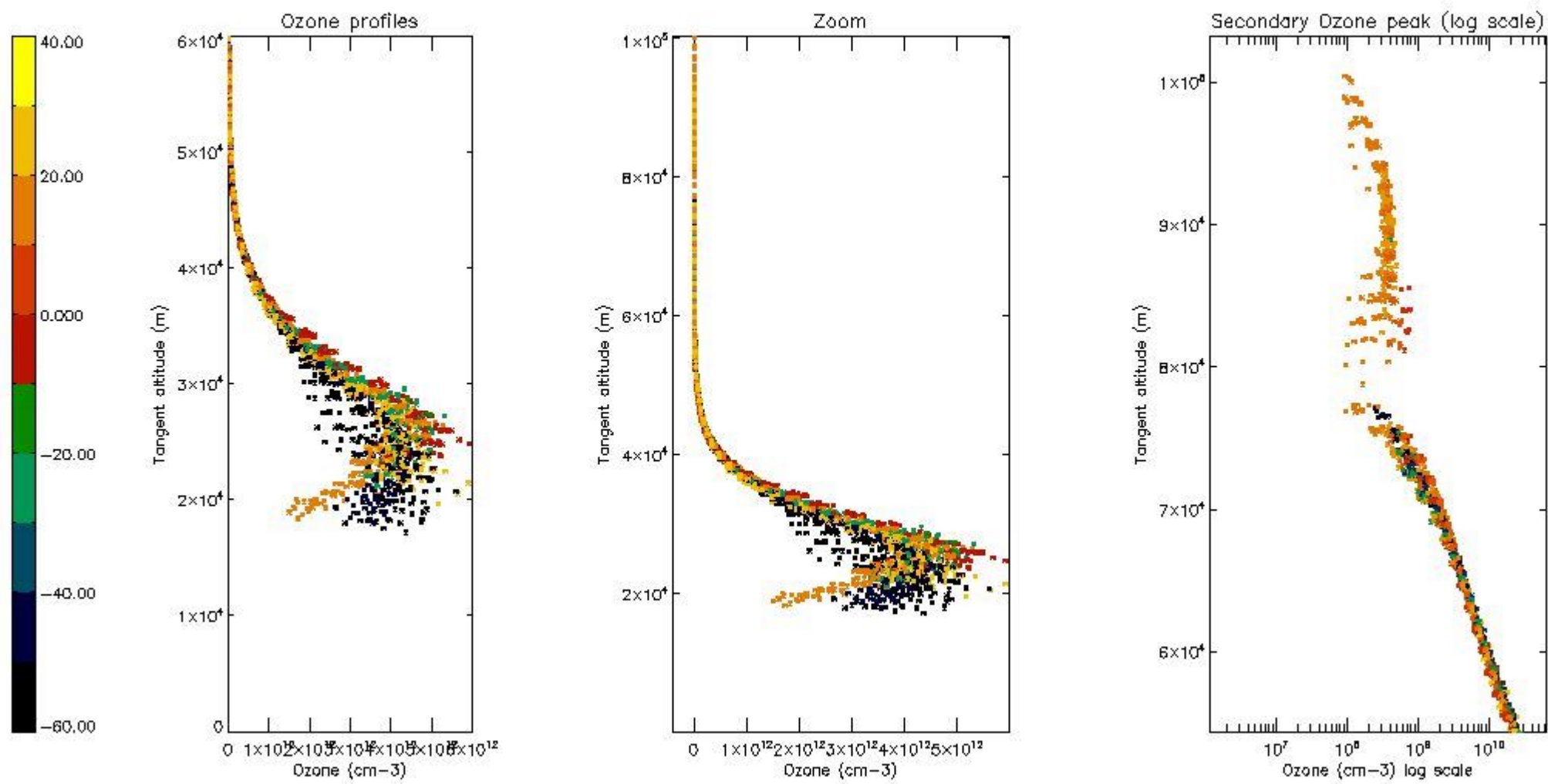
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



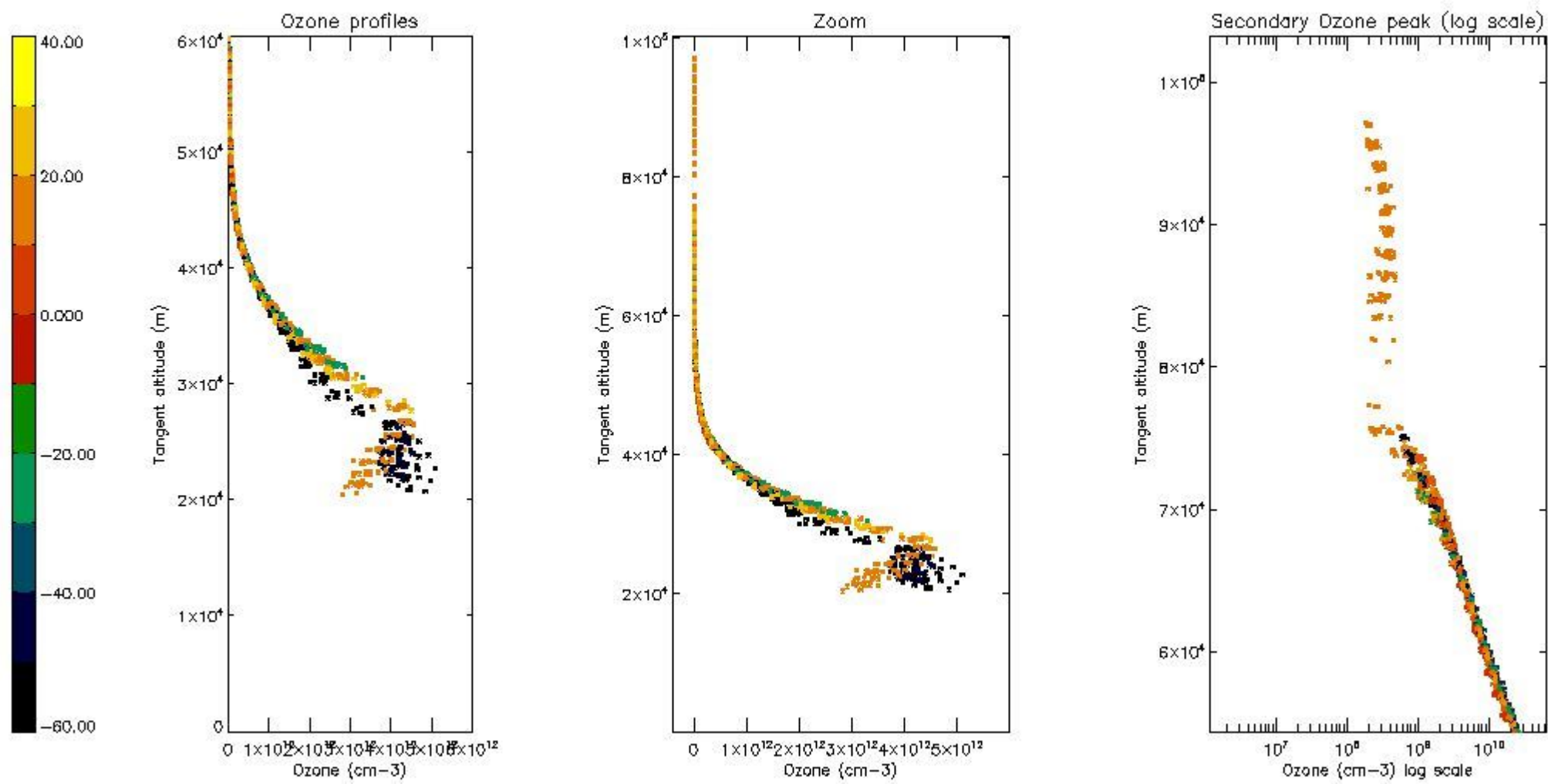
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



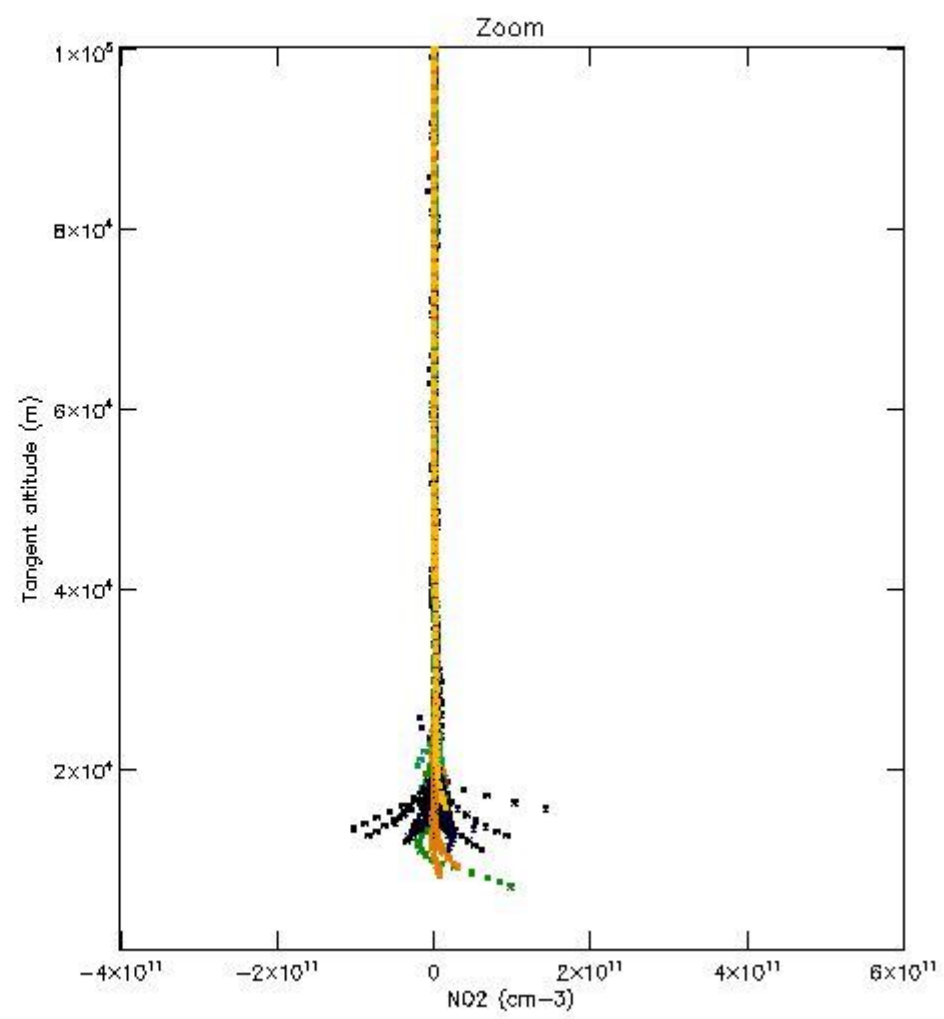
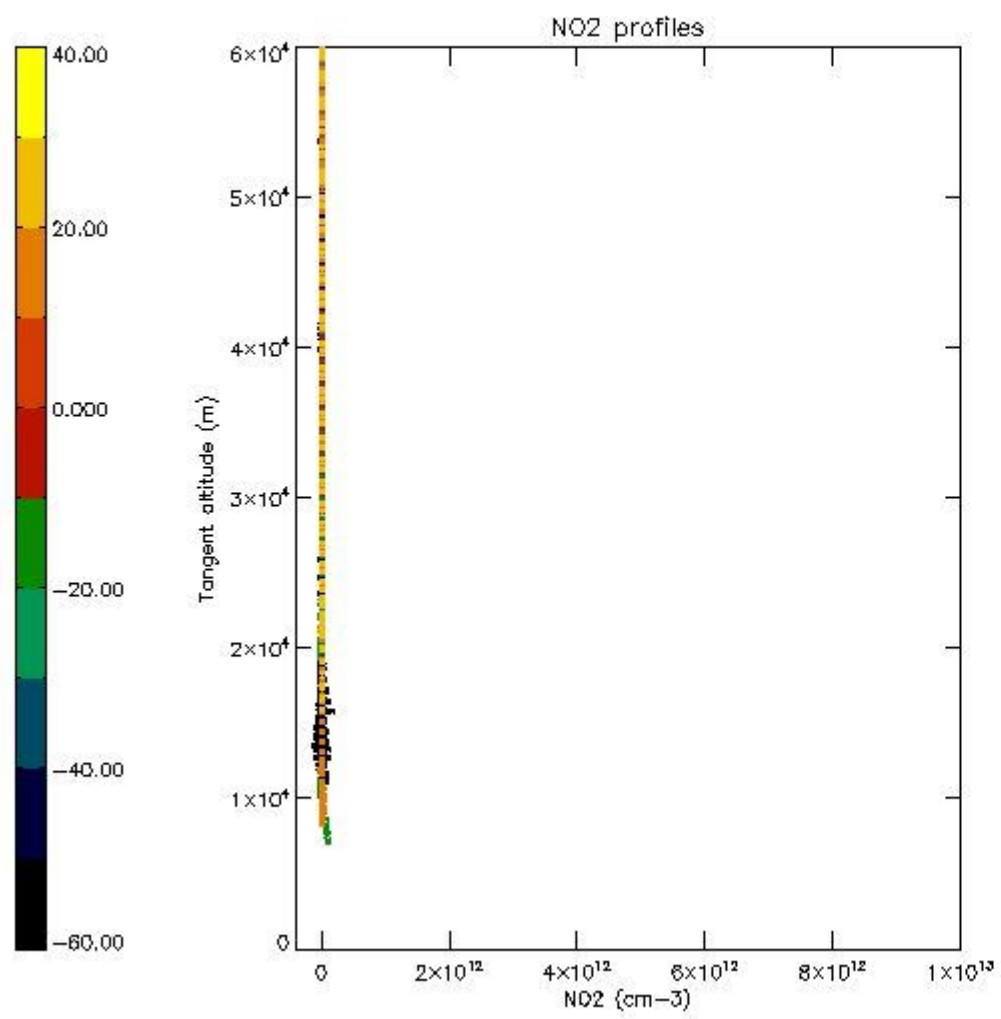
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



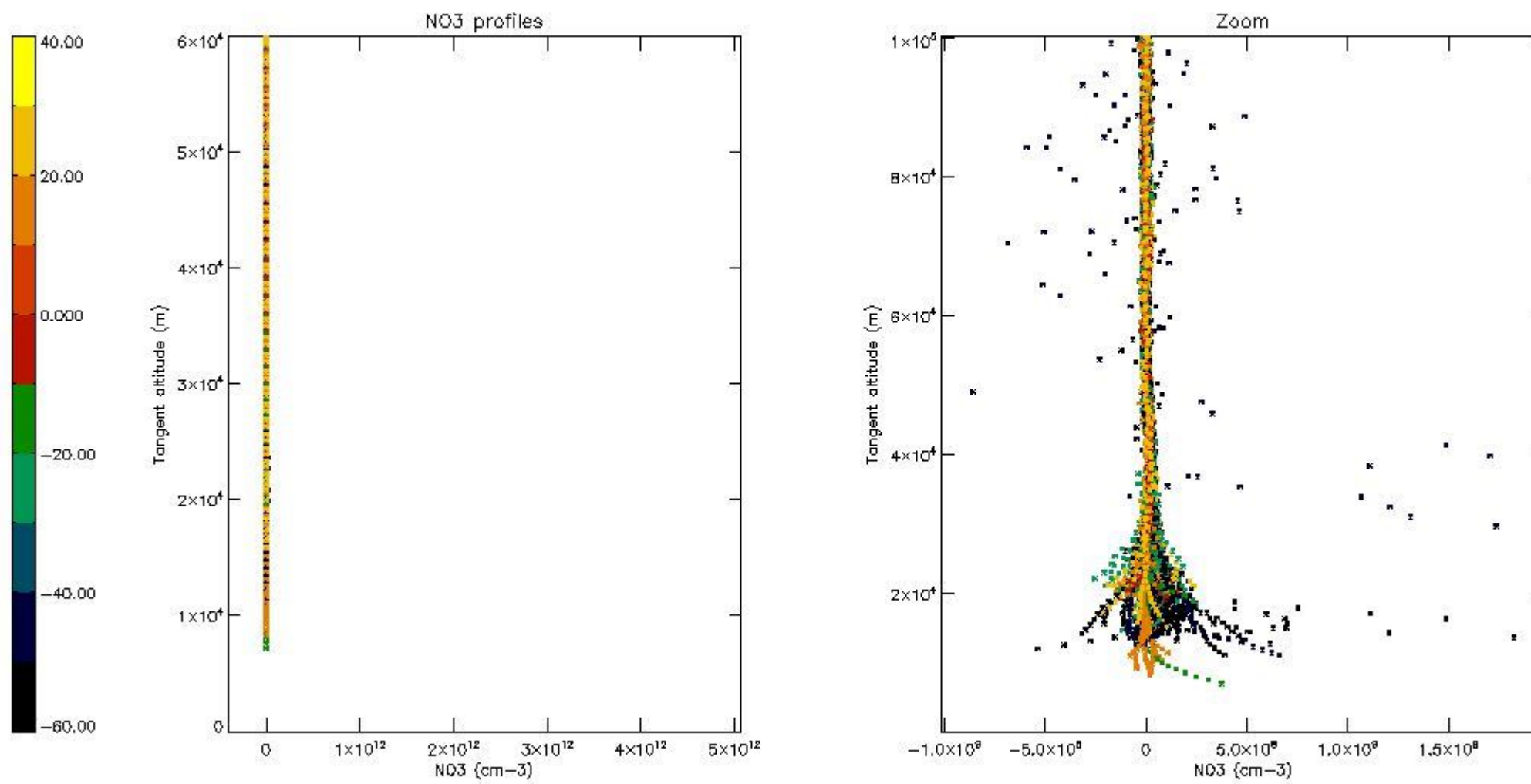
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



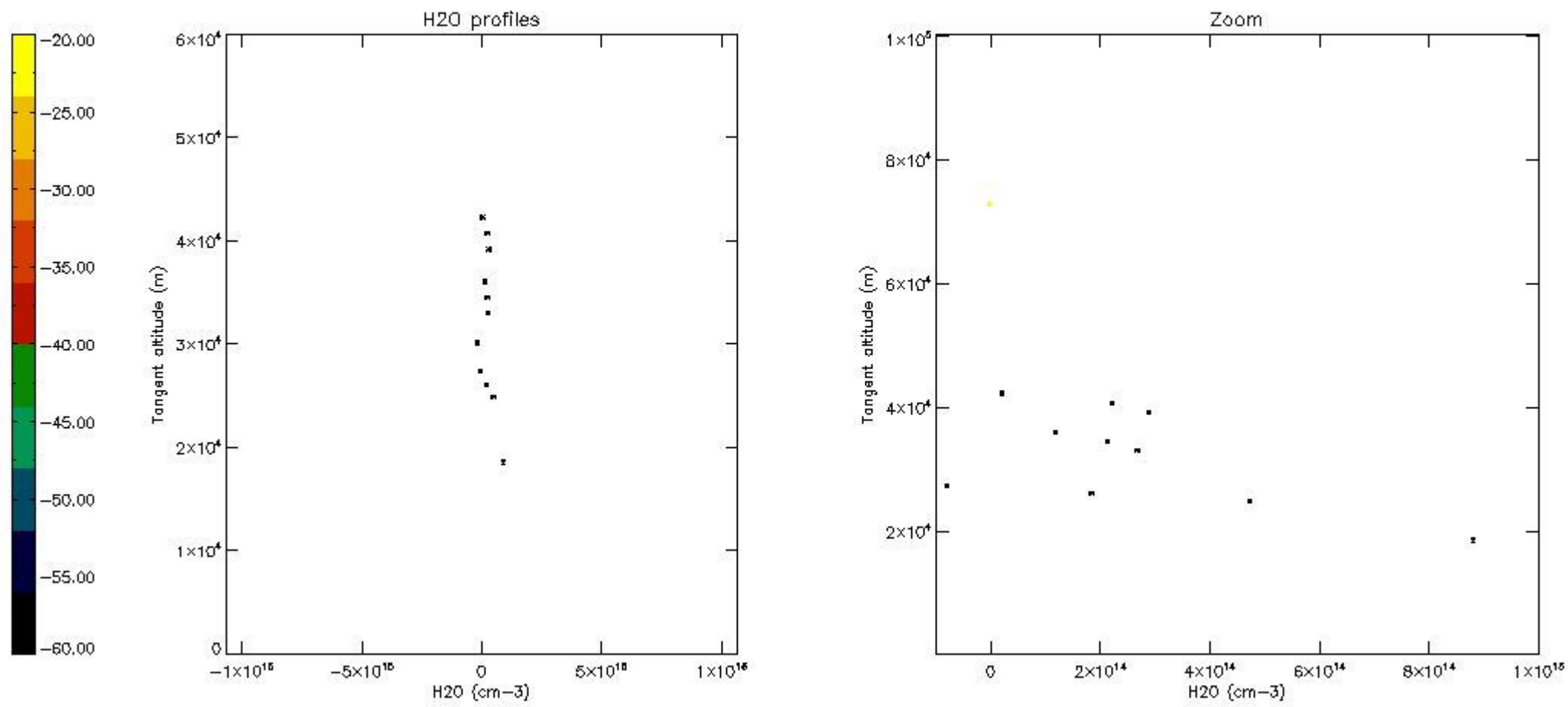
5.7 Plot NO3 profiles for all STD (dark without errors)

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	27-FEB-2006 00:08:35
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	27-FEB-2006 00:08:35
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	27-FEB-2006 00:08:35

GOMOS Level 2 Daily Report

SUMMARY

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

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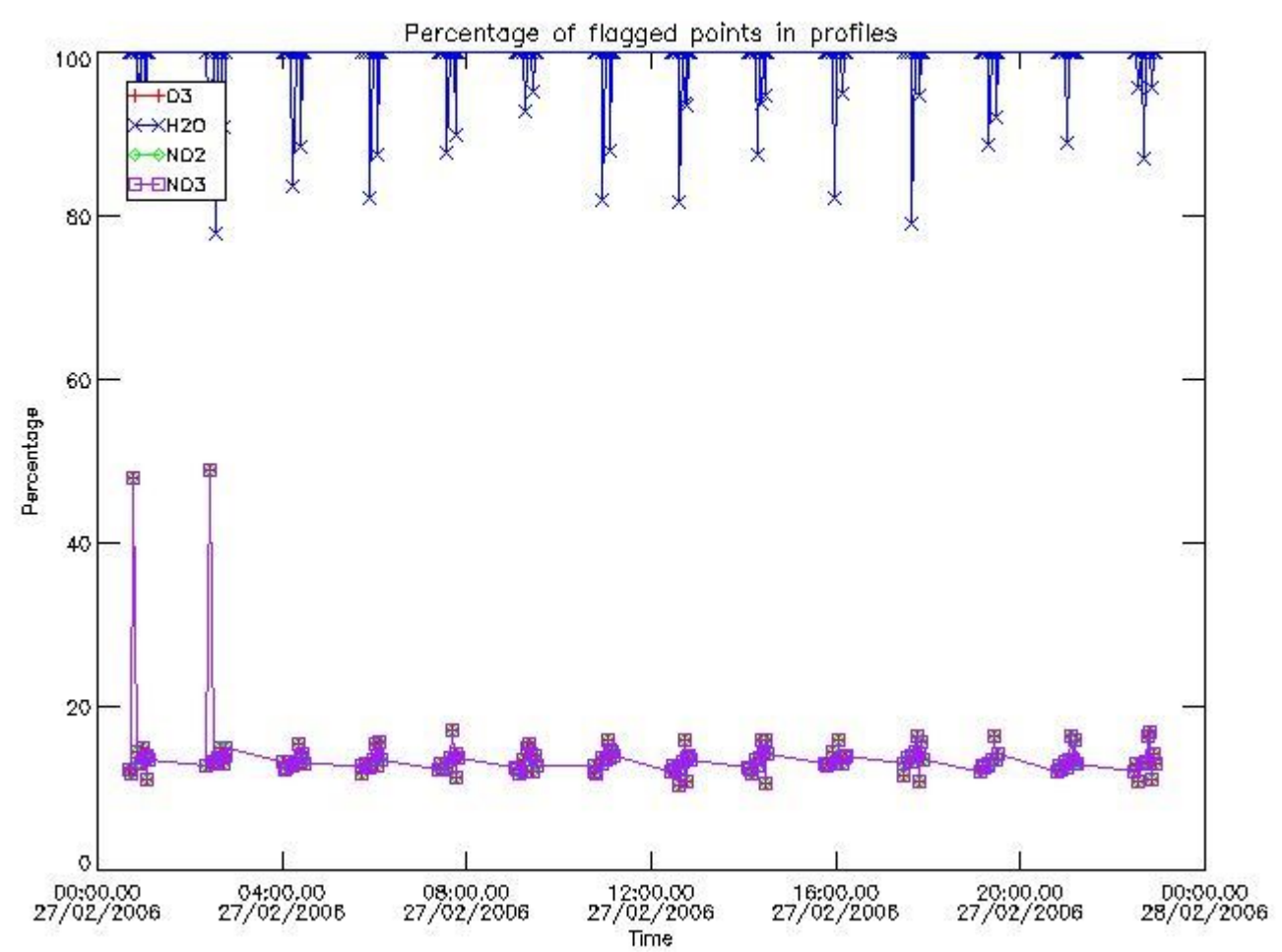
[6. Auxiliary Data Files used for the production reported in section 2](#)

279	GOM_NL__2PRFIN20060227_222846_000000422045_00301_20896_7661.N1	27-FEB-2006 22:28:46	Dark	42.000	155	41Pi Sgr	2.9000	6600.0	84	20896	No
280	GOM_NL__2PRFIN20060227_223034_000000432045_00301_20896_7662.N1	27-FEB-2006 22:30:34	Dark	43.000	57	34Sig Sgr	2.0660	26000.	86	20896	No
281	GOM_NL__2PRFIN20060227_223339_000000472045_00301_20896_7663.N1	27-FEB-2006 22:33:39	Dark	46.500	38	20Eps Sgr	1.8360	11000.	93	20896	No
282	GOM_NL__2PRFIN20060227_223859_000000392045_00301_20896_7664.N1	27-FEB-2006 22:38:59	Dark	39.000	147	Alp Ara	2.8770	26000.	78	20896	No
283	GOM_NL__2PRFIN20060227_224015_000000392045_00302_20897_7665.N1	27-FEB-2006 22:40:15	Dark	39.000	141	Bet Ara	2.8400	4600.0	78	20897	No
284	GOM_NL__2PRFIN20060227_224414_000000392045_00302_20897_7666.N1	27-FEB-2006 22:44:14	Dark	38.500	134	Bet TrA	2.8100	6600.0	77	20897	No
285	GOM_NL__2PRFIN20060227_224647_000000312045_00302_20897_7667.N1	27-FEB-2006 22:46:47	Dark	31.000	4	Alp1Cen	-0.010000	5800.0	62	20897	No
286	GOM_NL__2PRFIN20060227_224929_000000372045_00302_20897_7668.N1	27-FEB-2006 22:49:29	Dark	36.500	112	Alp Mus	2.6880	26000.	73	20897	No
287	GOM_NL__2PRFIN20060227_225044_000000462045_00302_20897_7669.N1	27-FEB-2006 22:50:44	Dark	45.500	12	Alp1Cru	0.77500	30000.	91	20897	No
288	GOM_NL__2PRFIN20060227_225237_000000362045_00302_20897_7670.N1	27-FEB-2006 22:52:37	Dark	36.000	124	The Car	2.7640	30000.	72	20897	No
289	GOM_NL__2PRFIN20060227_225501_000000392045_00302_20897_7671.N1	27-FEB-2006 22:55:01	Dark	39.000	71	lot Car	2.2460	7700.0	78	20897	No
290	GOM_NL__2PRFIN20060227_225925_000000432045_00302_20897_7672.N1	27-FEB-2006 22:59:25	Straylight	42.500	65	Lam Vel	2.2040	4400.0	85	20897	No
291	GOM_NL__2PRFIN20060227_230857_000000442045_00302_20897_7673.N1	27-FEB-2006 23:08:57	Twilight_stray	43.500	48	30Alp Hya	1.9770	4100.0	87	20897	No
292	GOM_NL__2PRFIN20060227_232005_000000372045_00302_20897_7674.N1	27-FEB-2006 23:20:05	Bright	36.500	17	78Bet Gem	1.1610	4500.0	73	20897	No
293	GOM_NL__2PRFIN20060227_232118_000000362045_00302_20897_7675.N1	27-FEB-2006 23:21:18	Bright	35.500	24	66Alp Gem	1.5800	10200.	71	20897	No
294	GOM_NL__2PRFIN20060227_233658_000000352045_00302_20897_7676.N1	27-FEB-2006 23:36:58	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	20897	No
295	GOM_NL__2PRFIN20060227_234426_000000362045_00302_20897_7677.N1	27-FEB-2006 23:44:26	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	20897	No
296	GOM_NL__2PRFIN20060227_234931_000000352045_00302_20897_7678.N1	27-FEB-2006 23:49:31	Bright	34.500	19	50Alp Cyg	1.2460	10500.	69	20897	No
297	GOM_NL__2PRFIN20060227_235105_000000372045_00302_20897_7679.N1	27-FEB-2006 23:51:05	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	20897	No
298	GOM_NL__2PRFIN20060227_235237_000000352045_00302_20897_7680.N1	27-FEB-2006 23:52:37	Bright	34.500	92	53Eps Cyg	2.5000	4500.0	69	20897	No
299	GOM_NL__2PRFIN20060227_235951_000000372045_00302_20897_7681.N1	27-FEB-2006 23:59:51	Bright	36.500	118	50Gam Aql	2.7180	4600.0	73	20897	No

3. Quality information per product

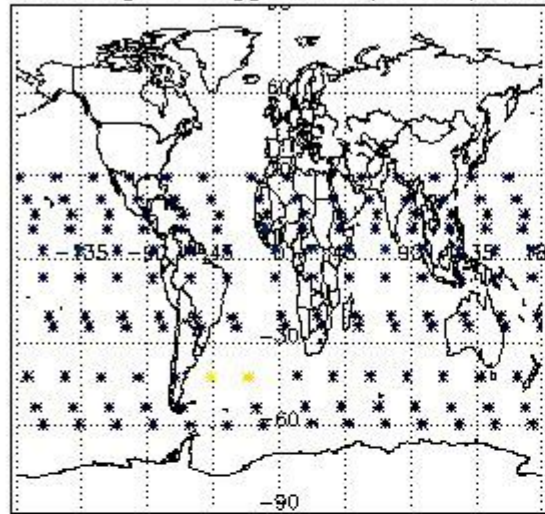
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

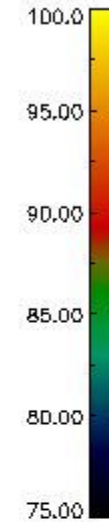
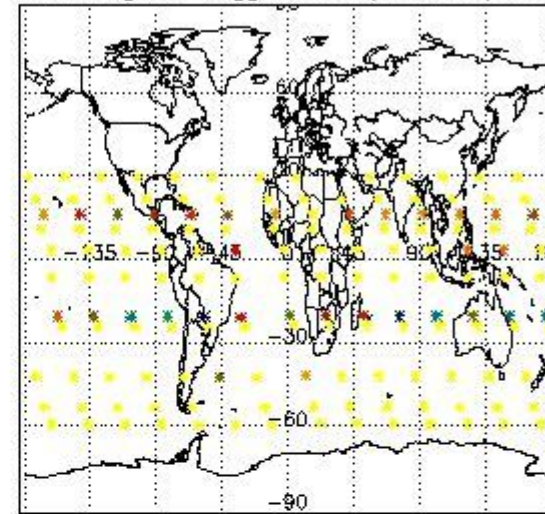


3.2 Plot quality information per product (world map)

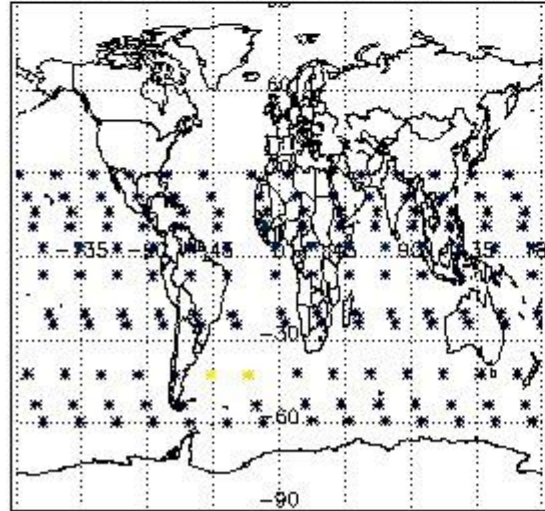
Percentage of flagged data per O3 profile



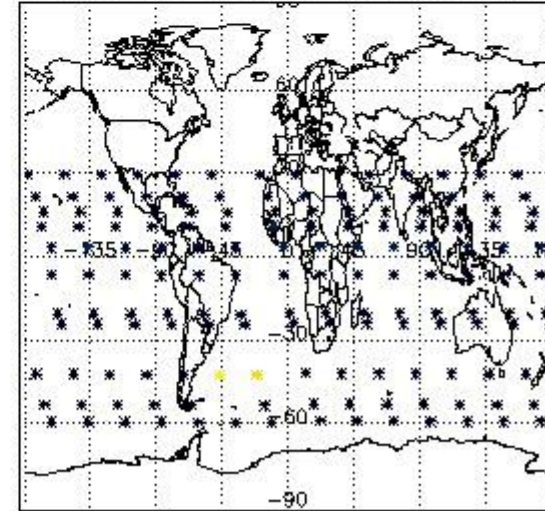
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

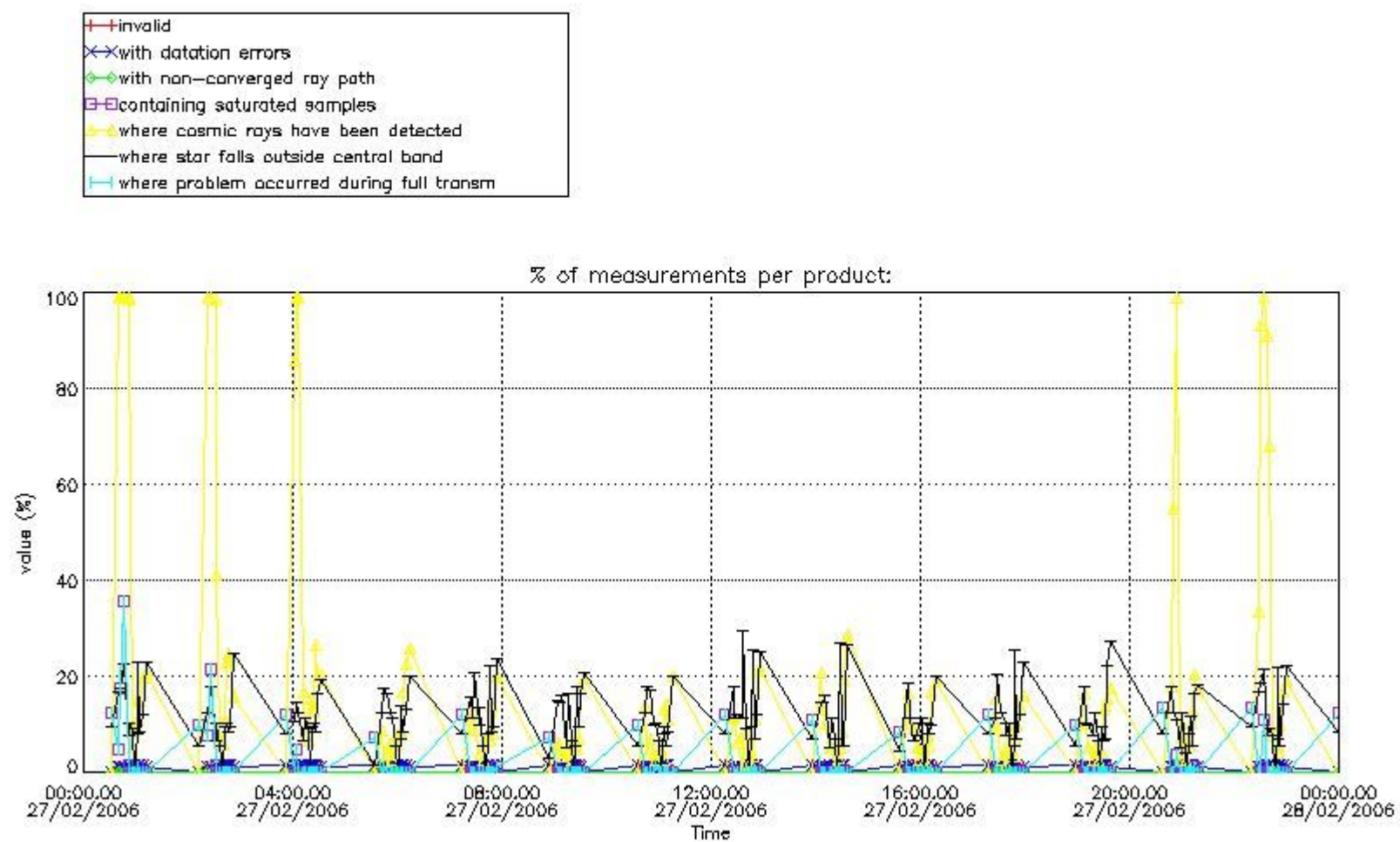


4. Level 1 quality information per product

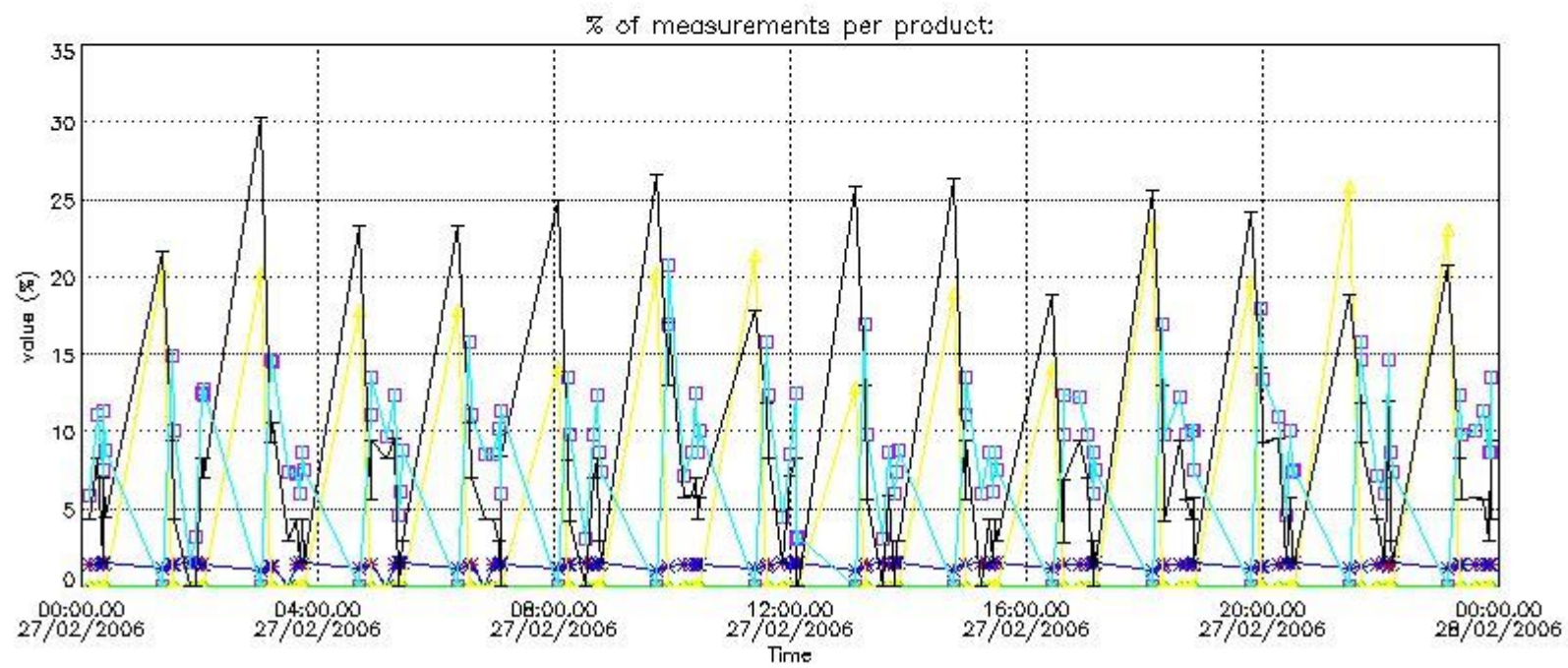
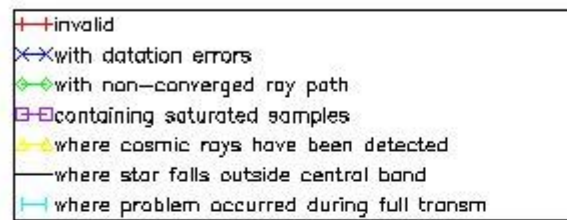
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



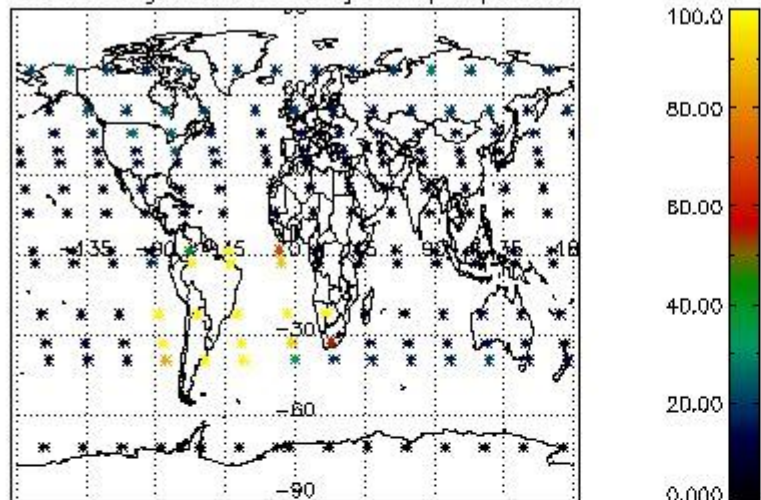
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



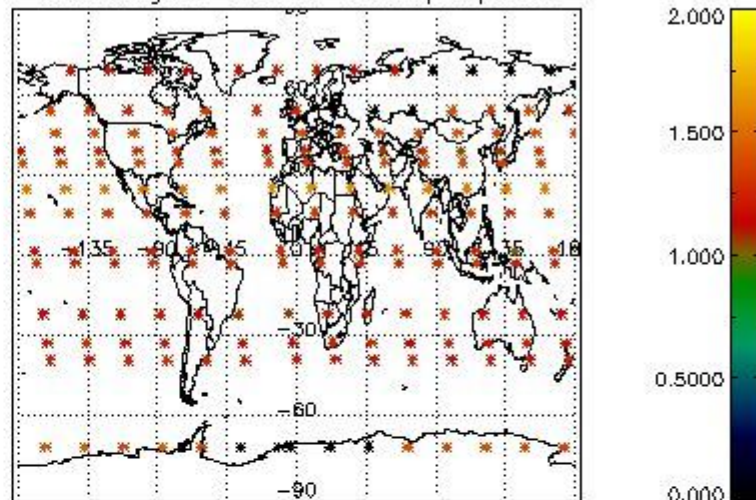
4.2 Plot quality information per product coming from level 1b processing (world map)

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

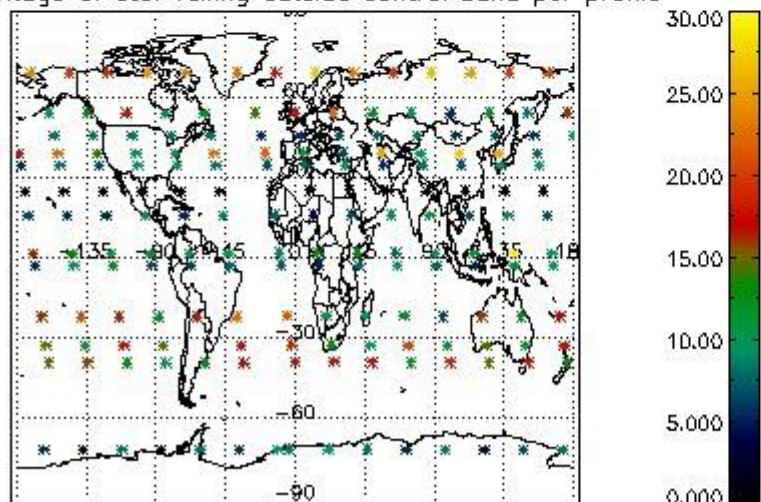
Percentage of cosmic ray hits per profile



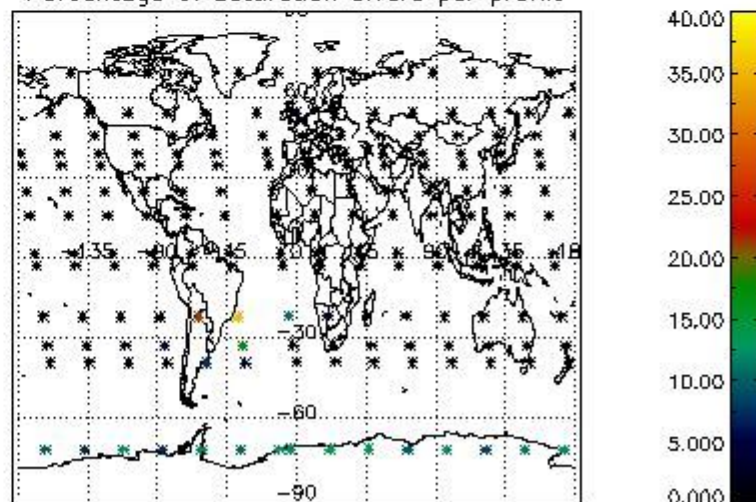
Percentage of datation errors per profile



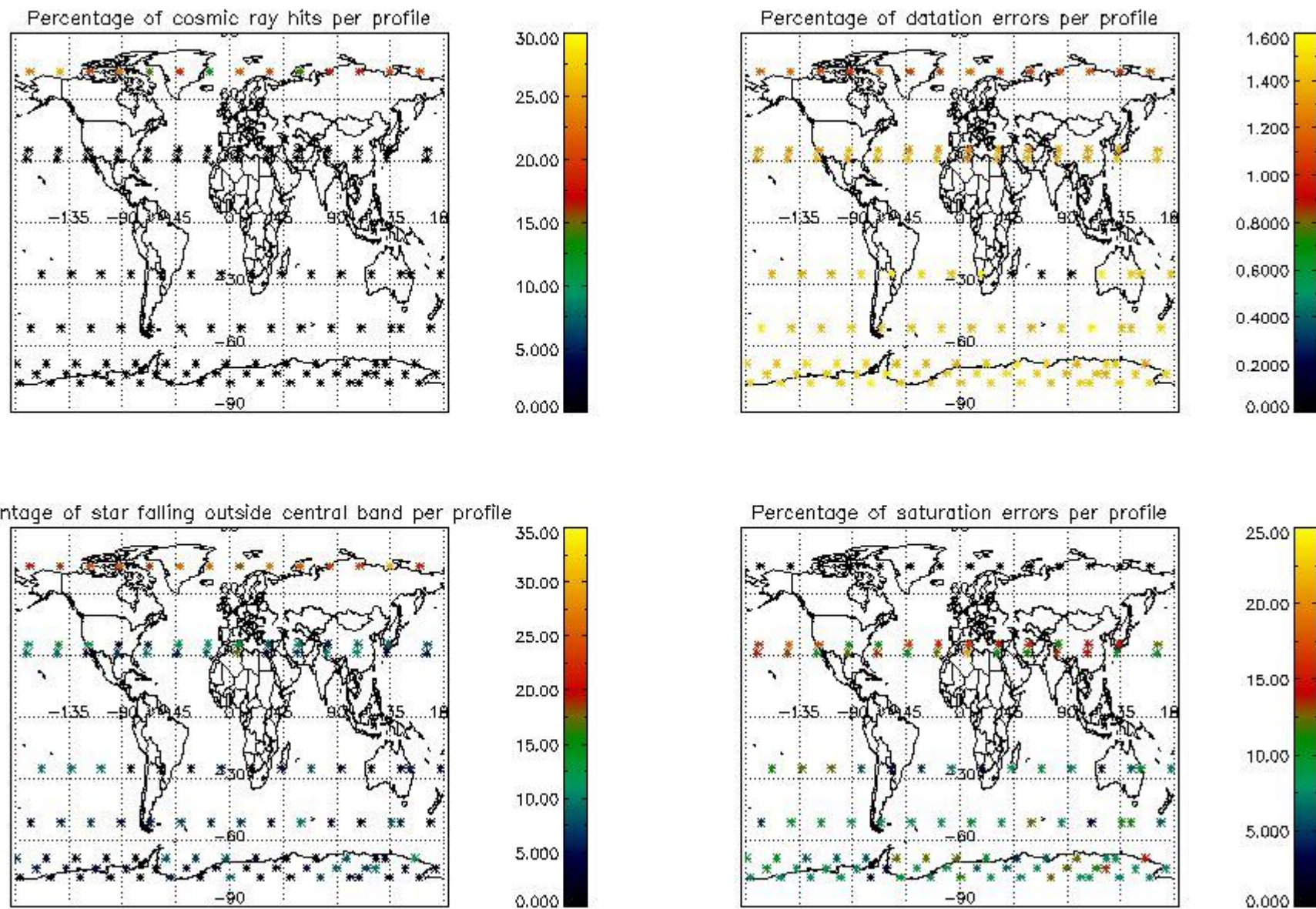
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

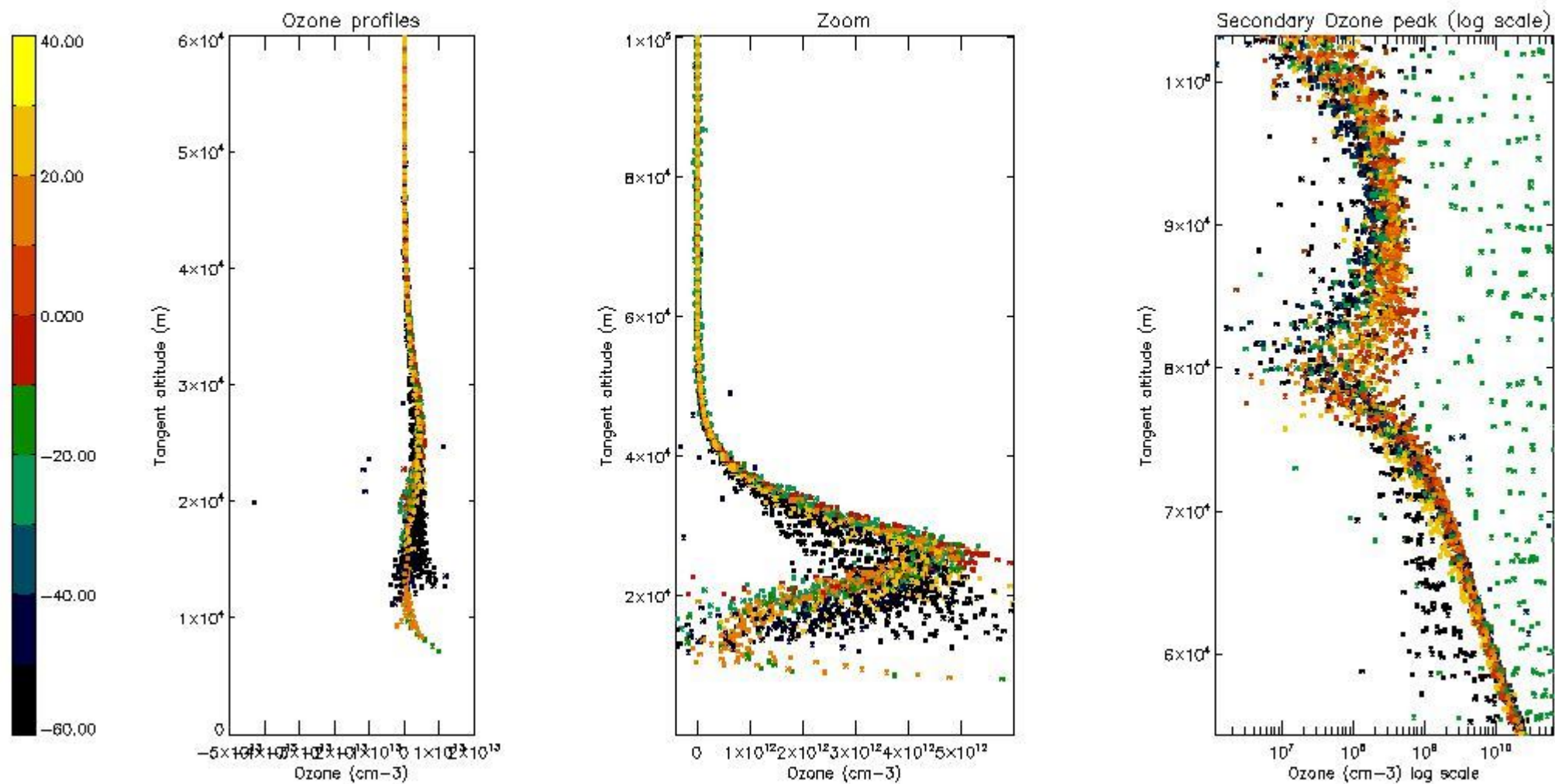
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	53
STD < 20	31

STD < 10	23
STD < 5	15

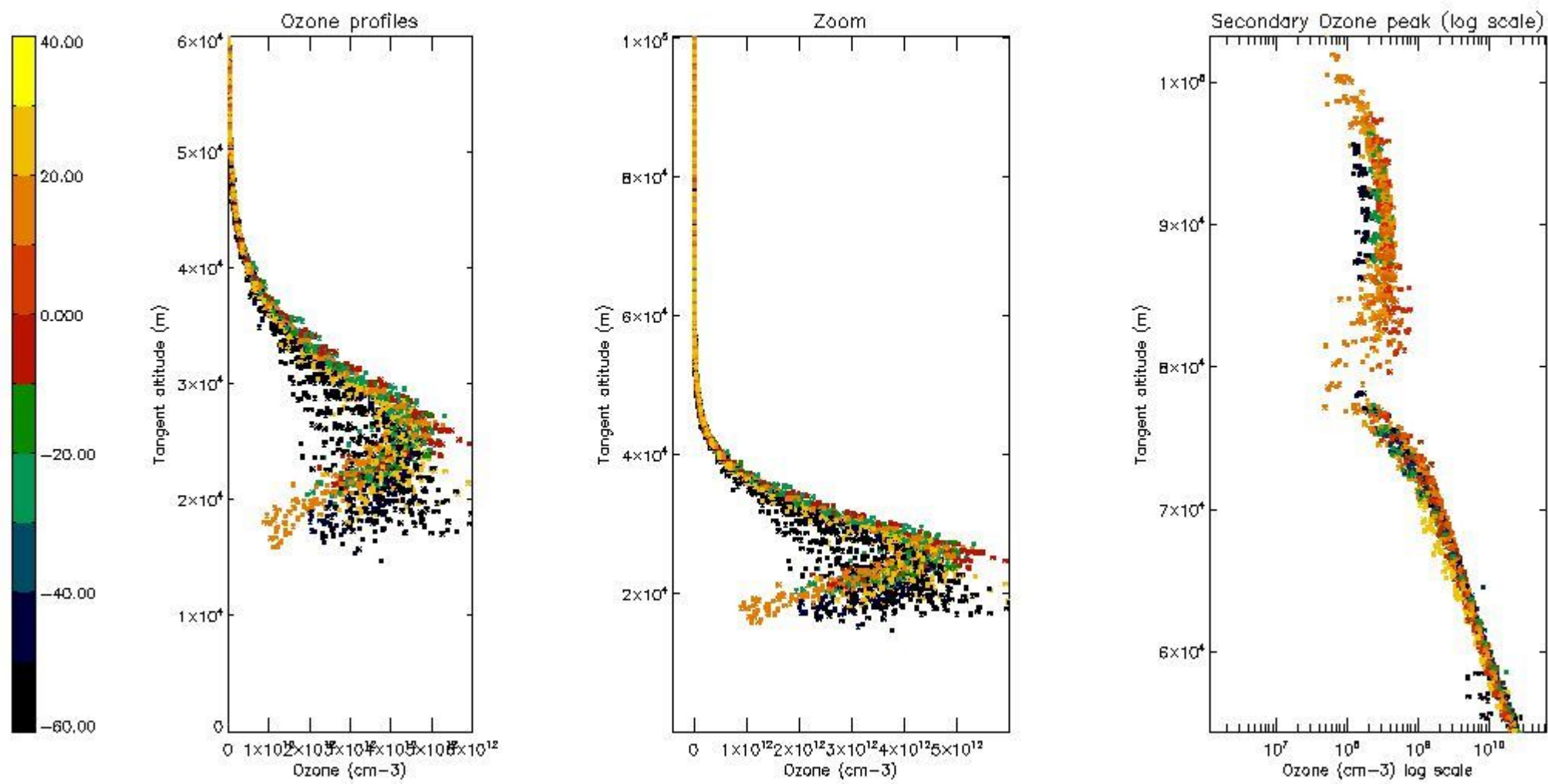
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



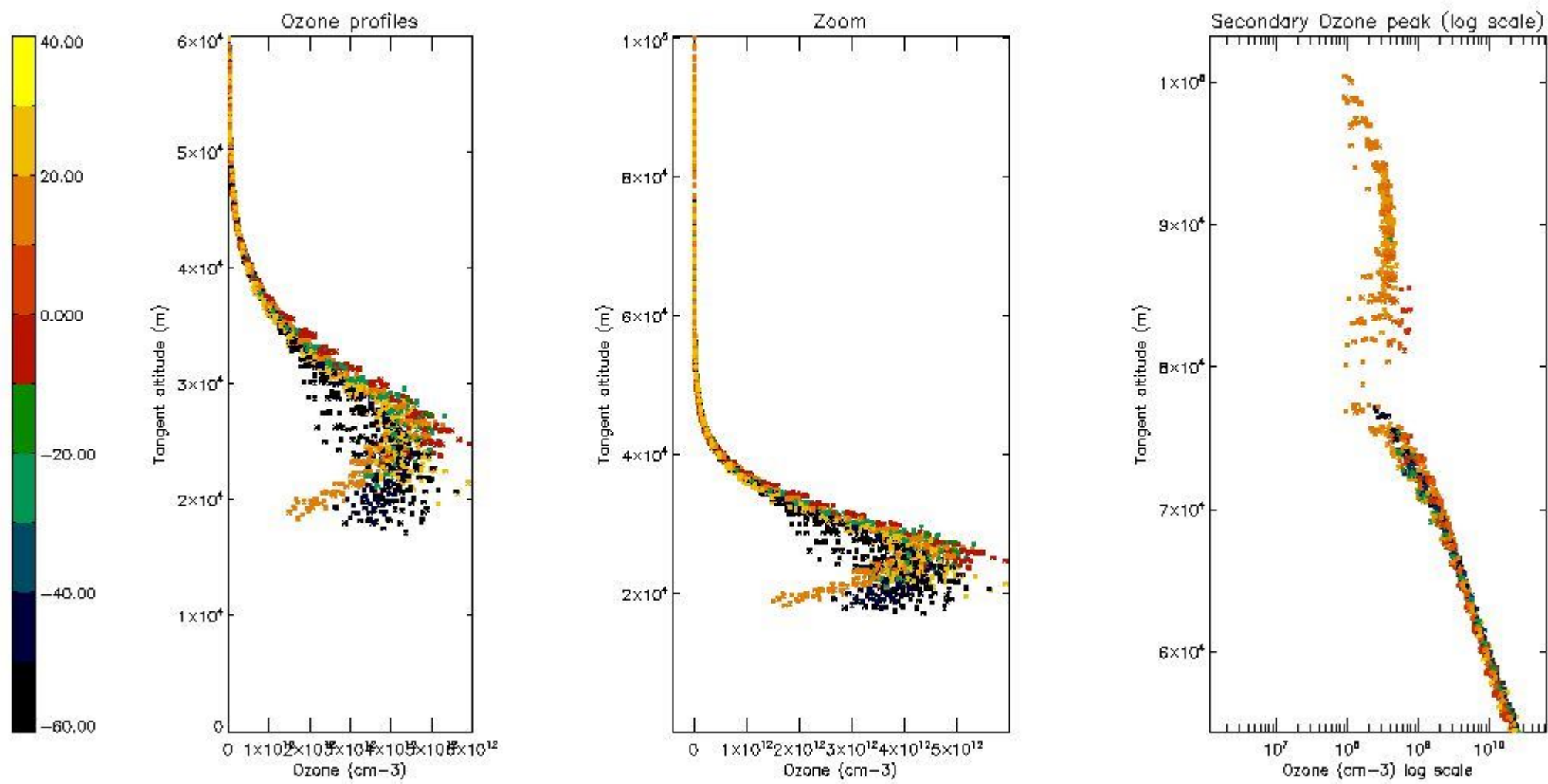
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



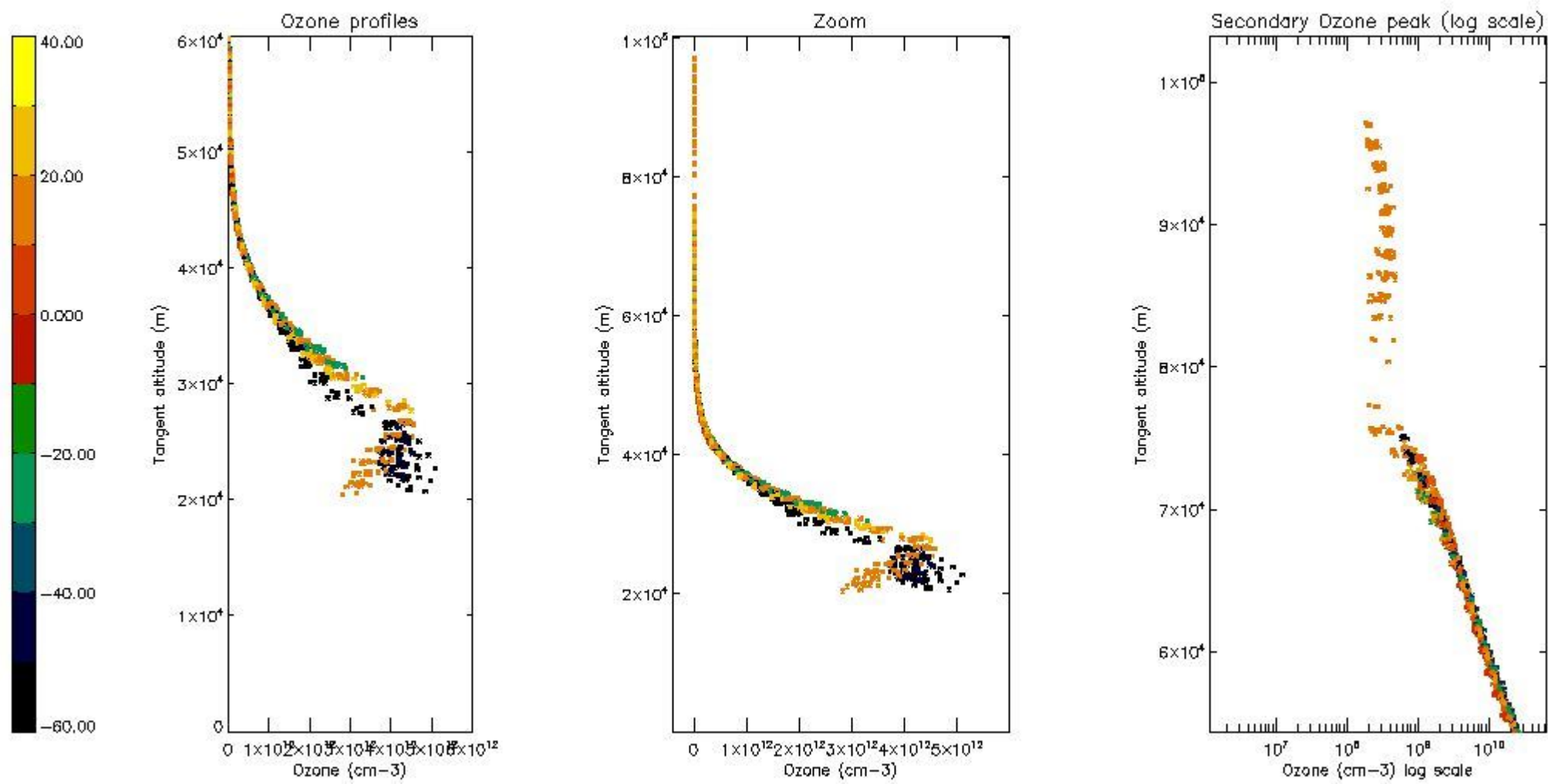
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



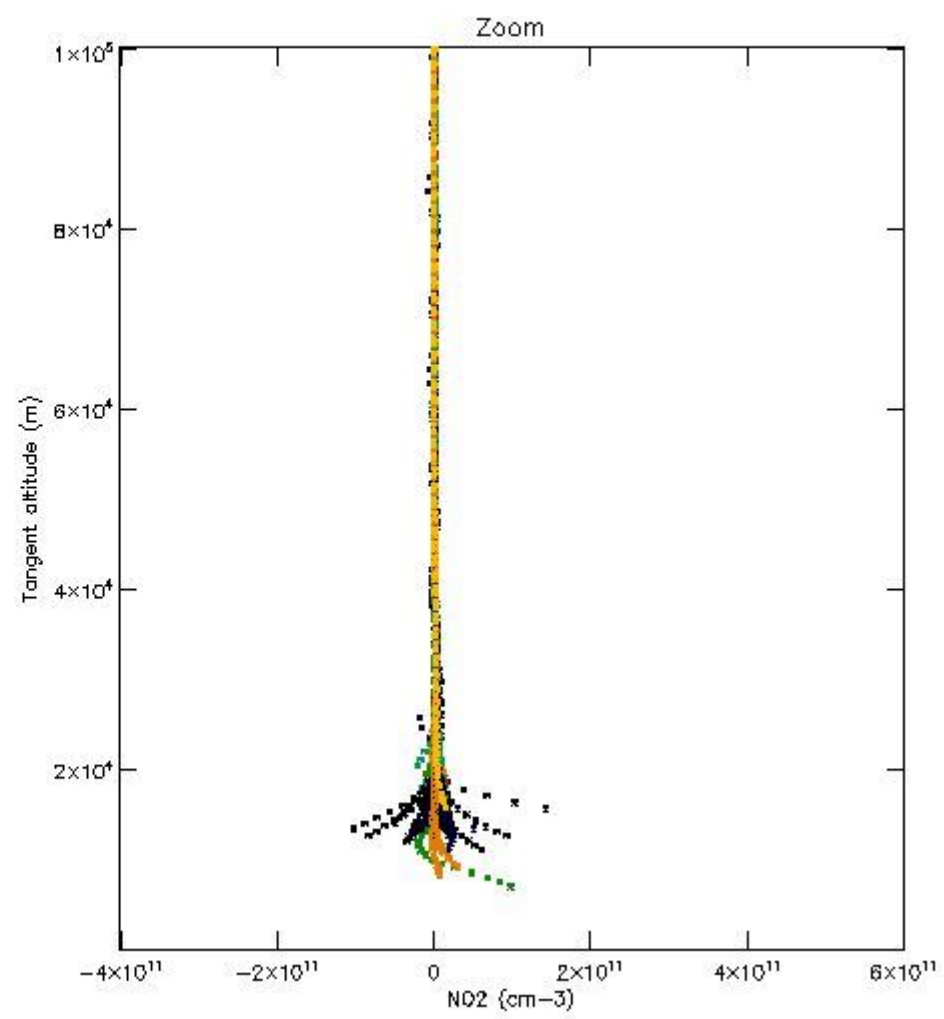
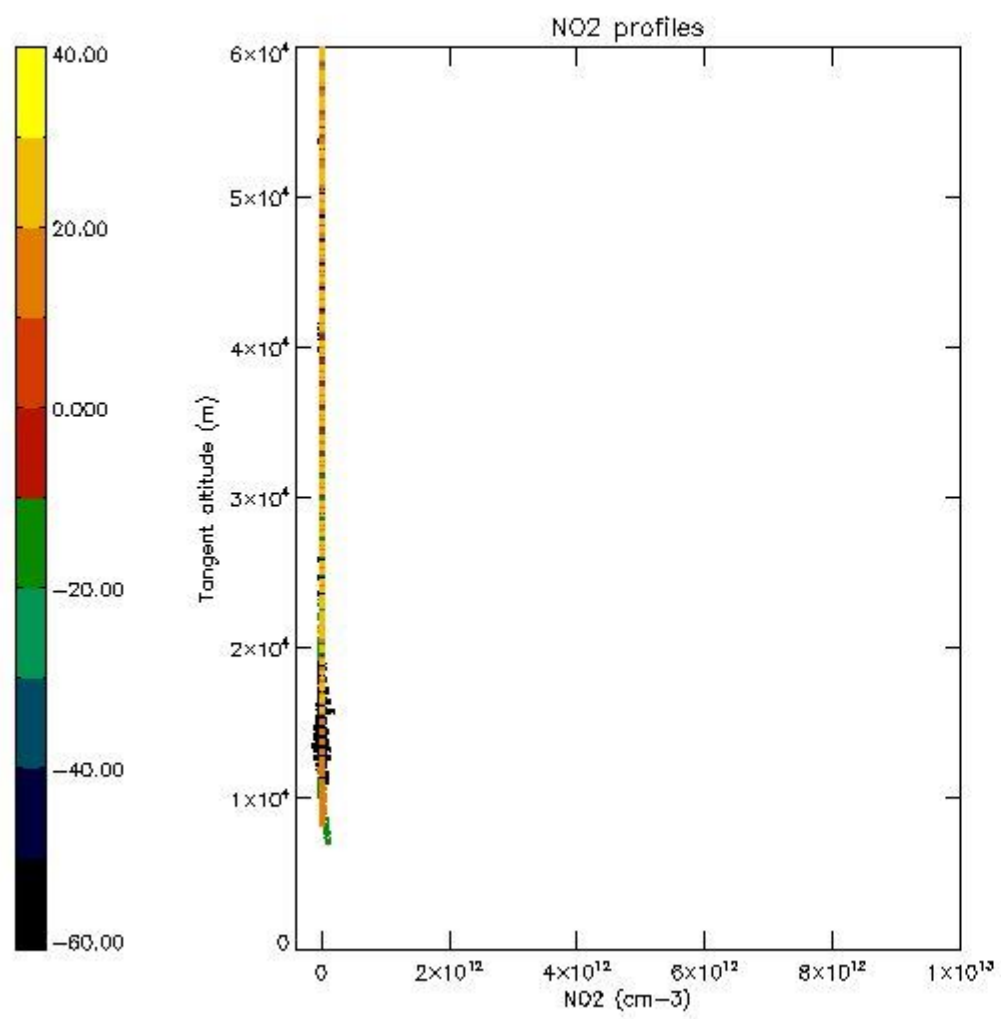
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



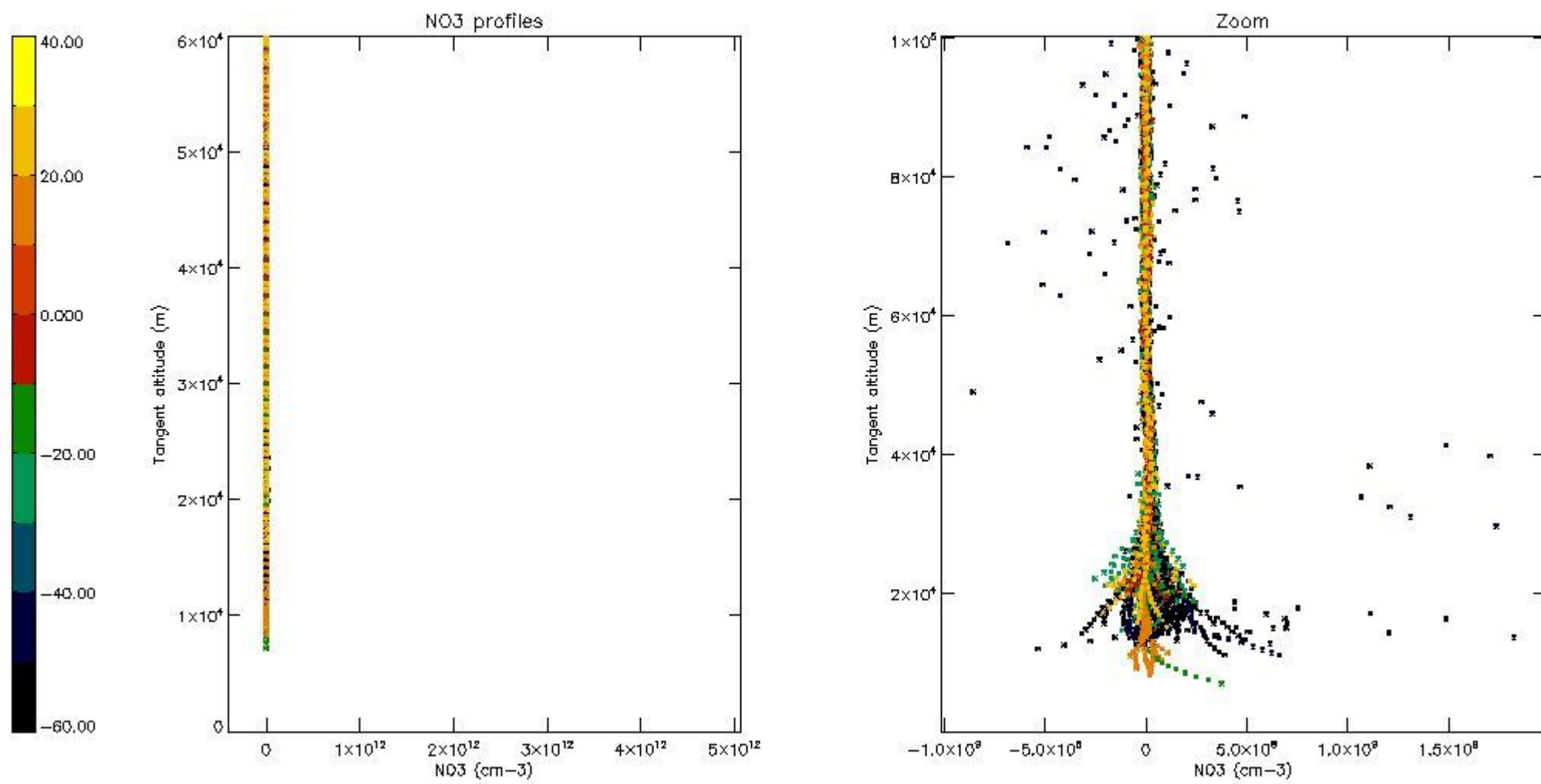
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



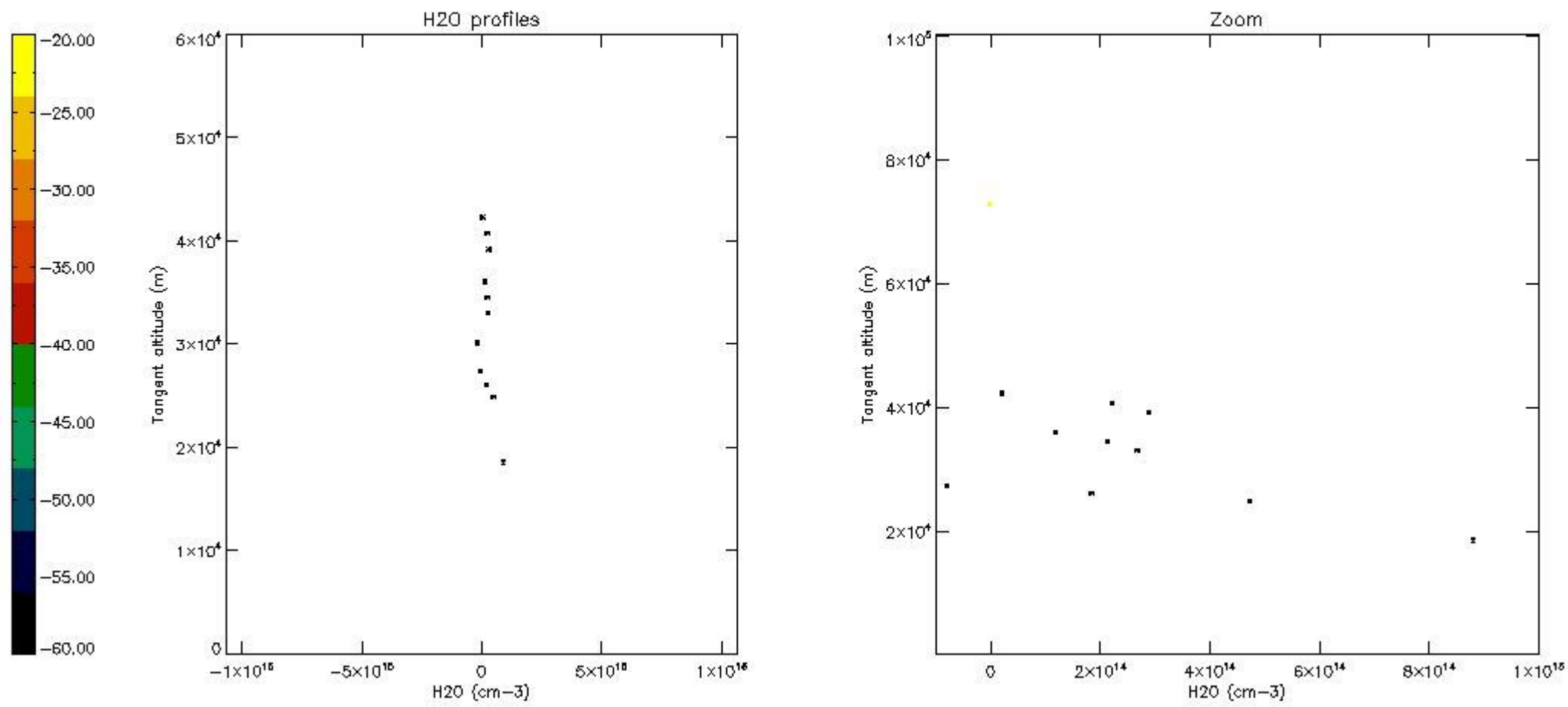
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

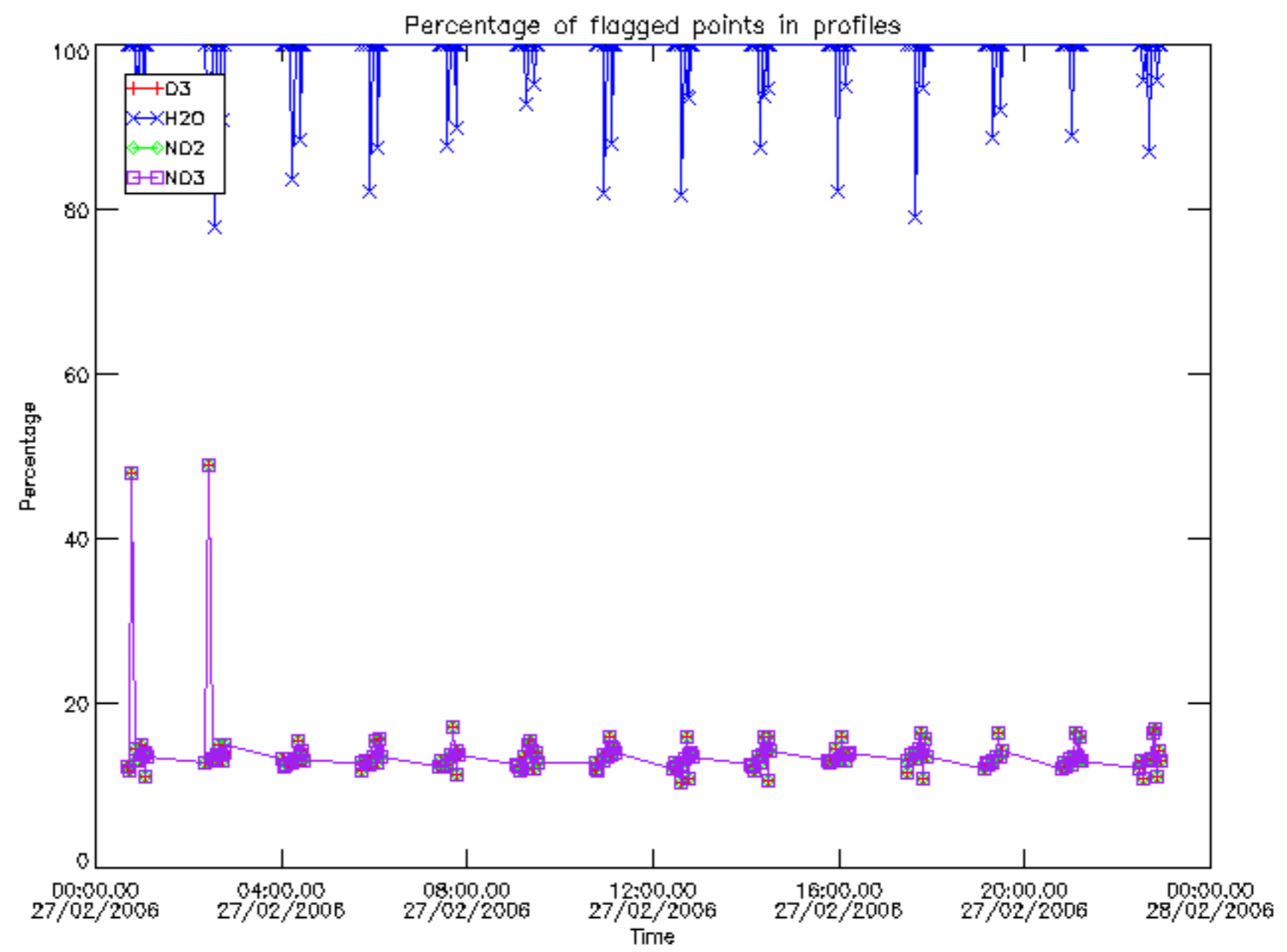
The colorbar represents the latitude.



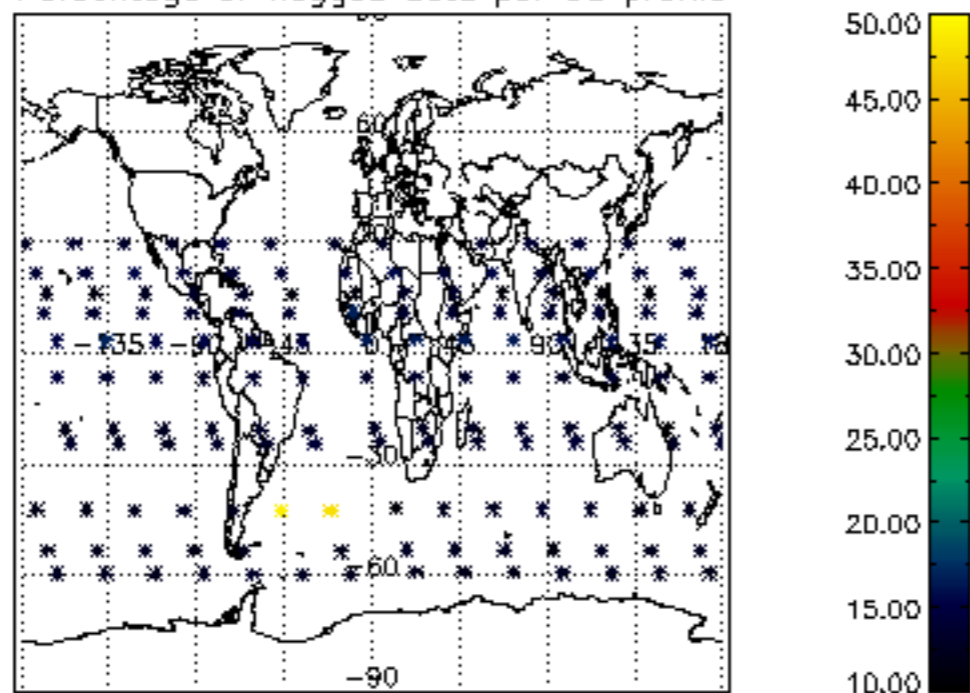
6. Auxiliary Data Files used for the production reported in section 2

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.

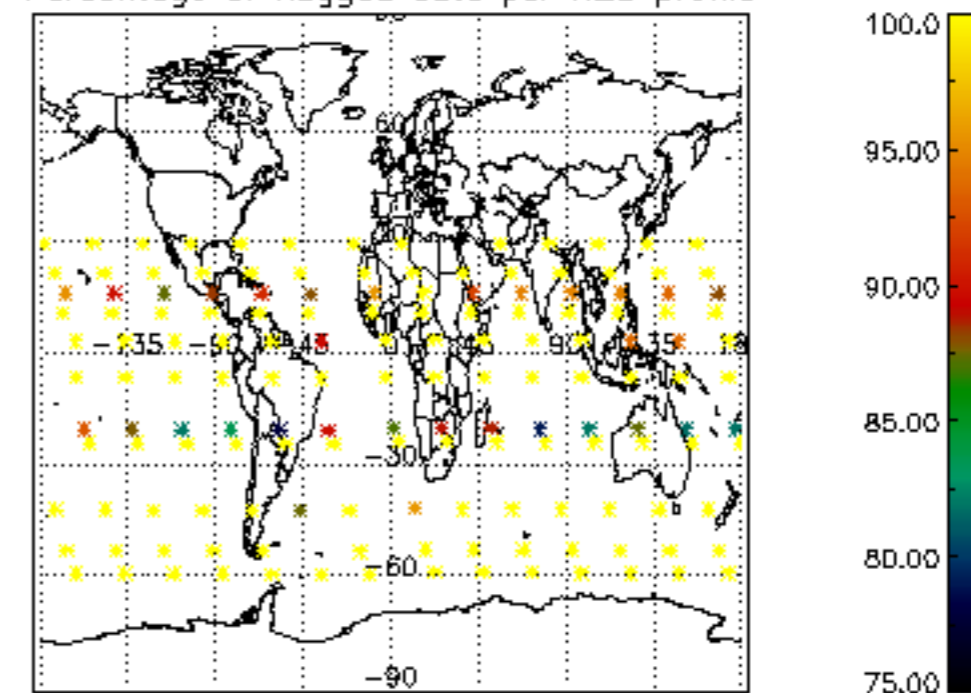
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	27-FEB-2006 00:08:35
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	27-FEB-2006 00:08:35
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	27-FEB-2006 00:08:35



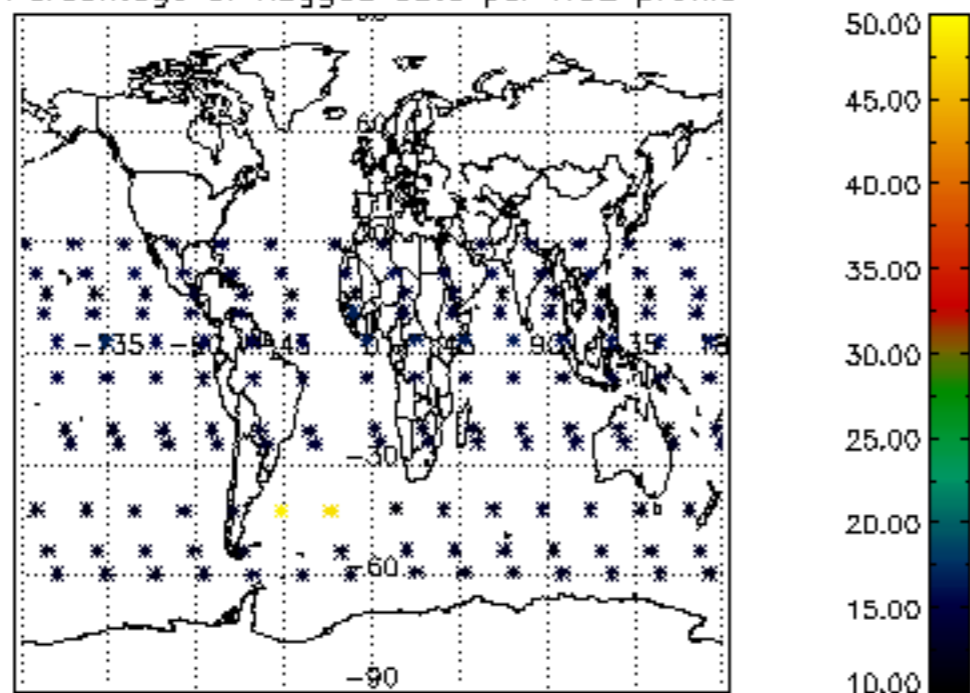
Percentage of flagged data per D3 profile



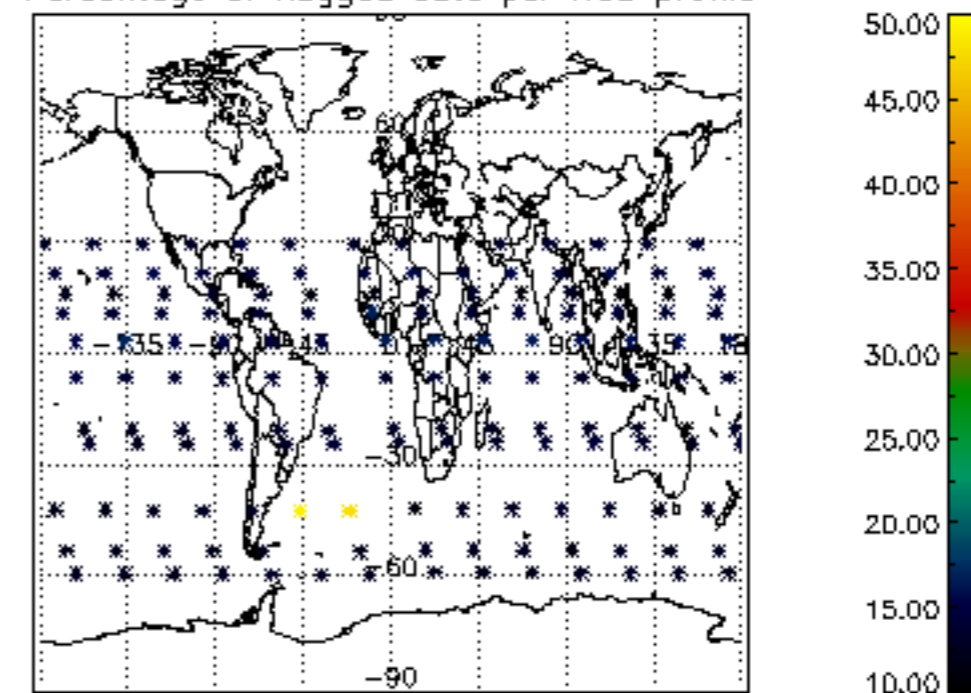
Percentage of flagged data per H2O profile

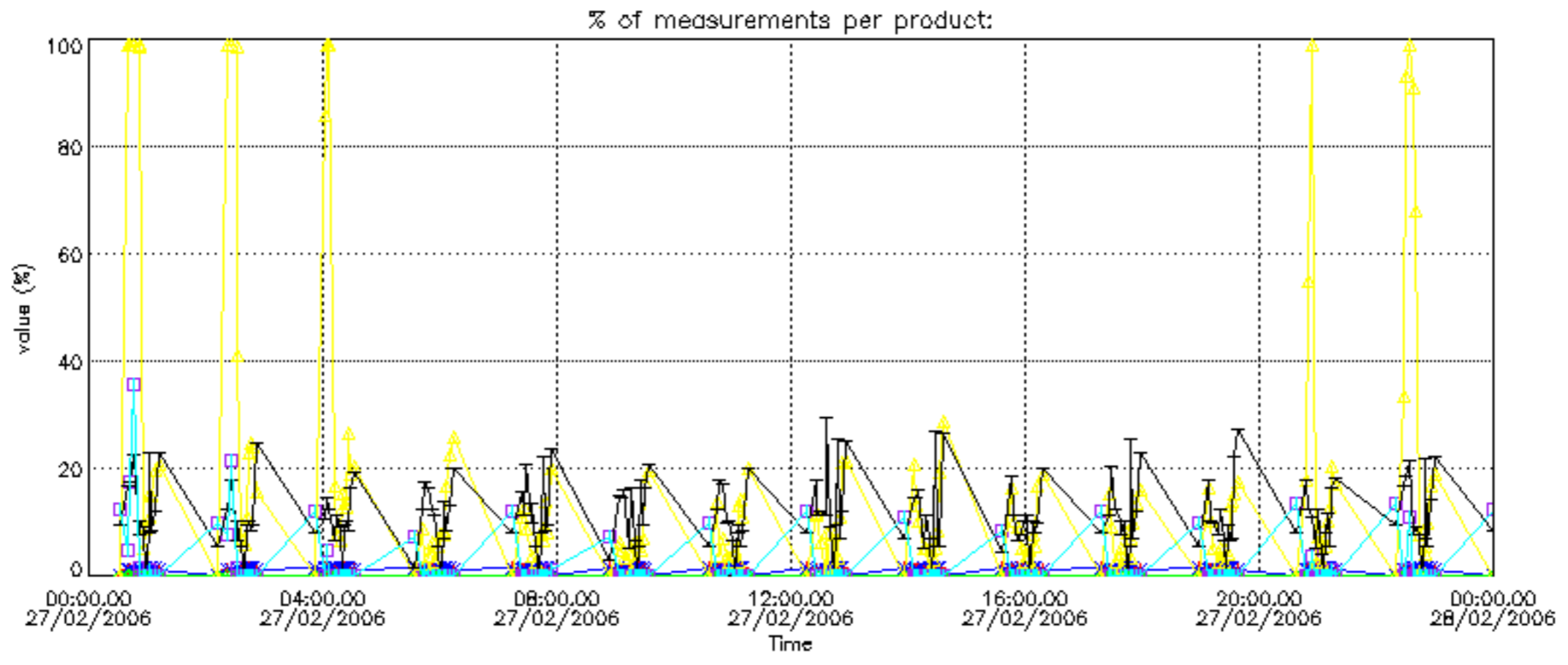


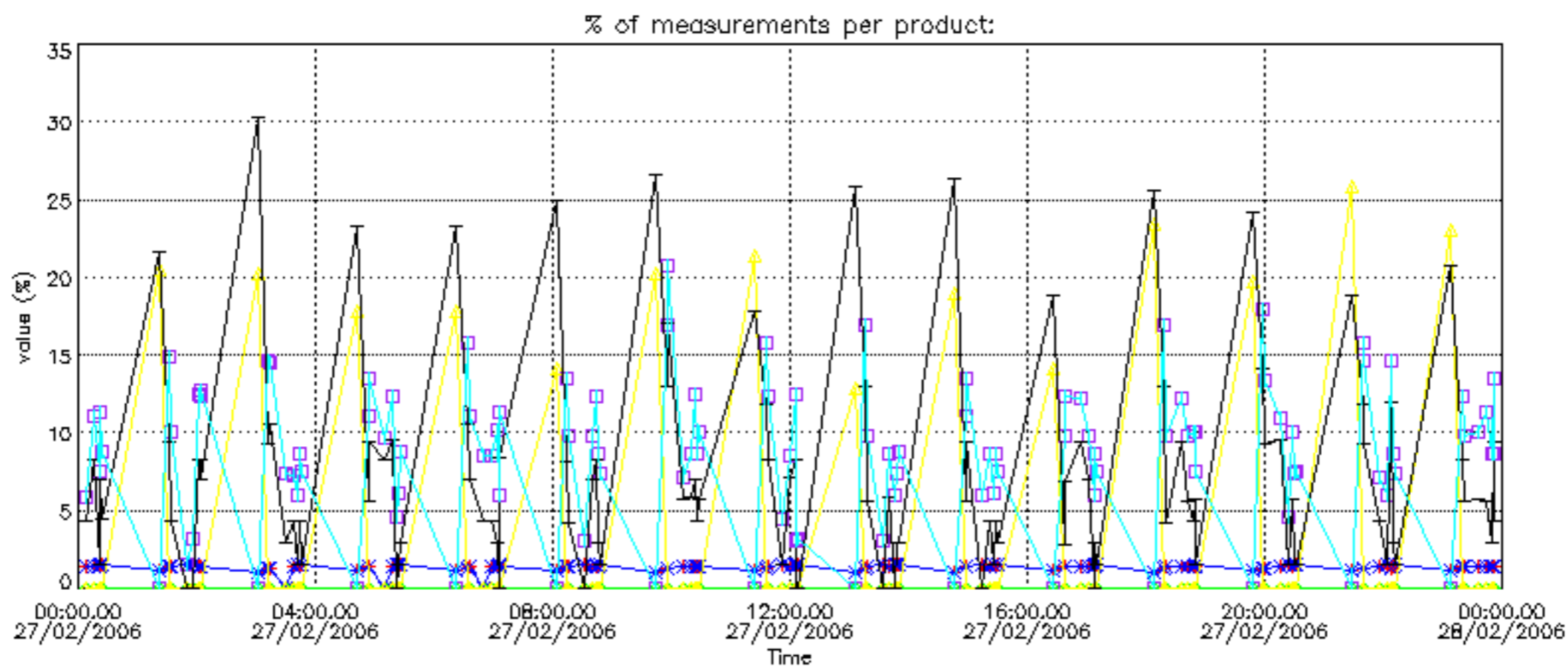
Percentage of flagged data per NO2 profile



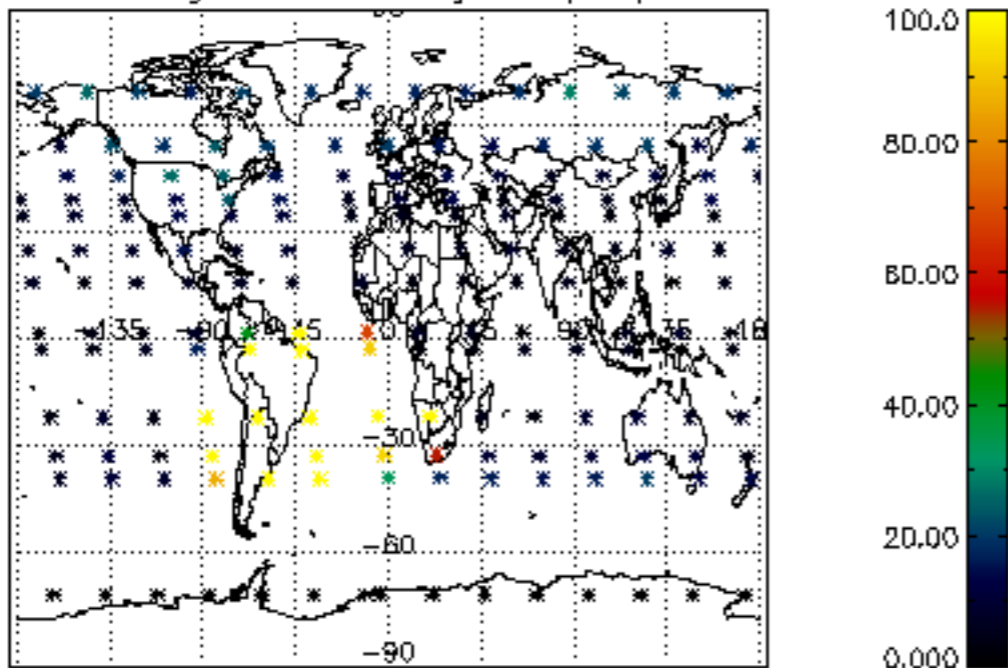
Percentage of flagged data per NO3 profile



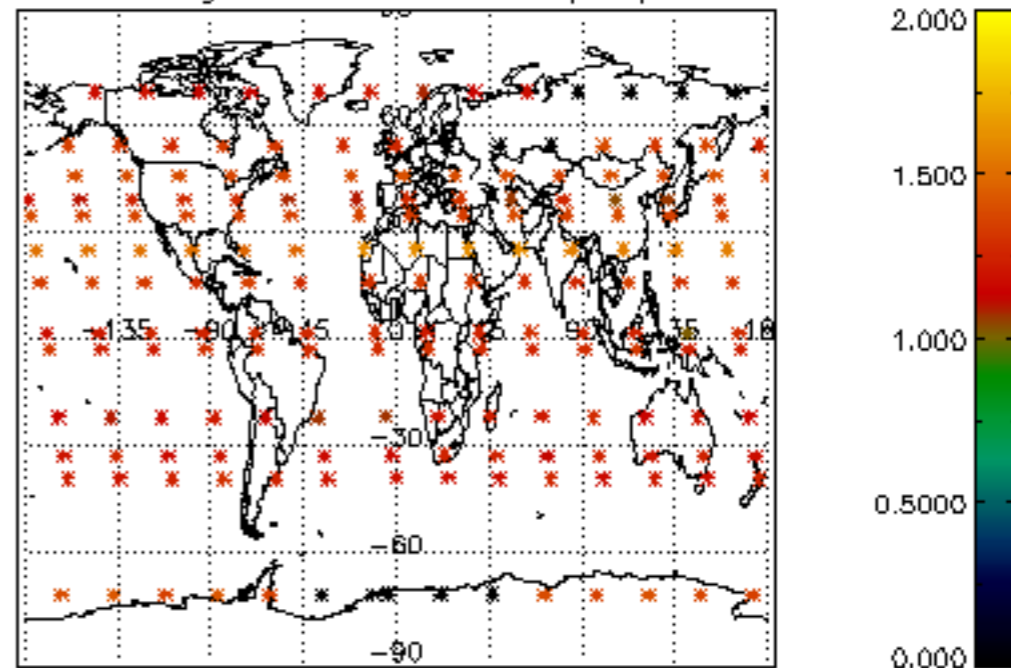




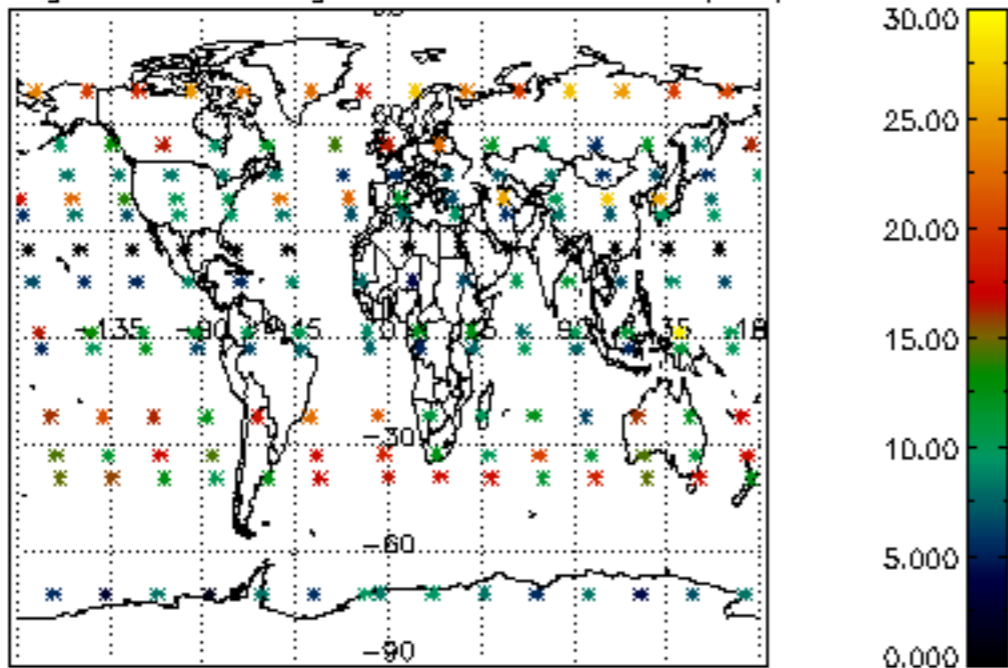
Percentage of cosmic ray hits per profile



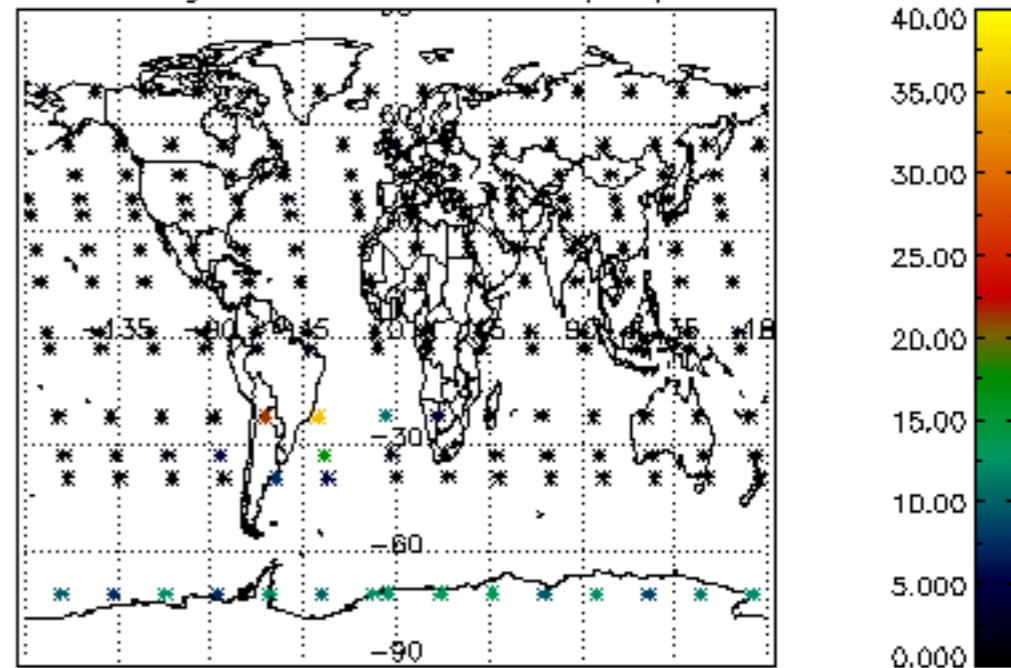
Percentage of datation errors per profile



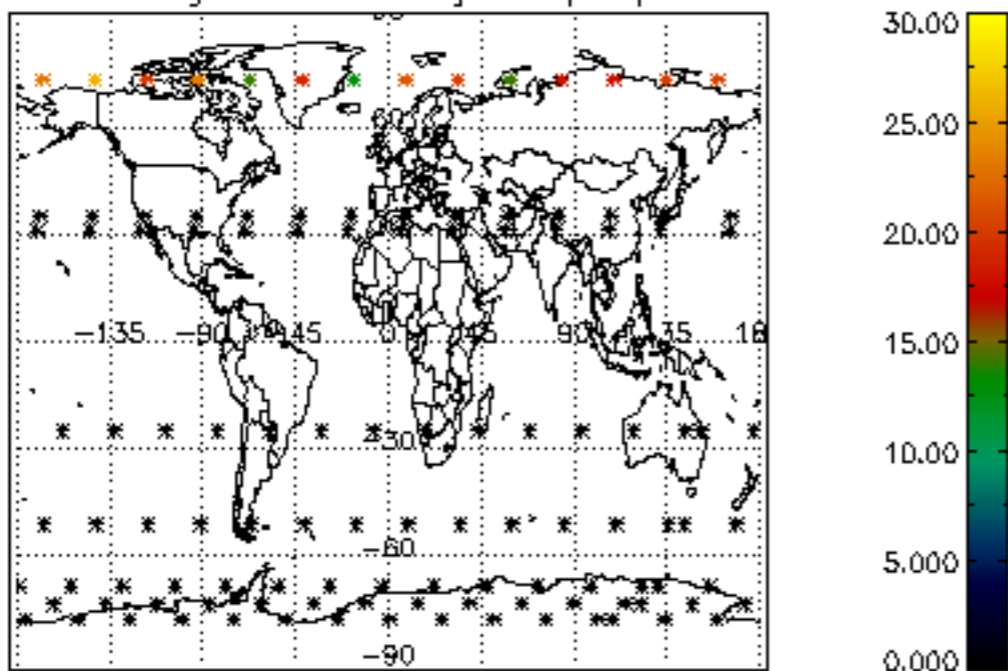
Percentage of star falling outside central band per profile



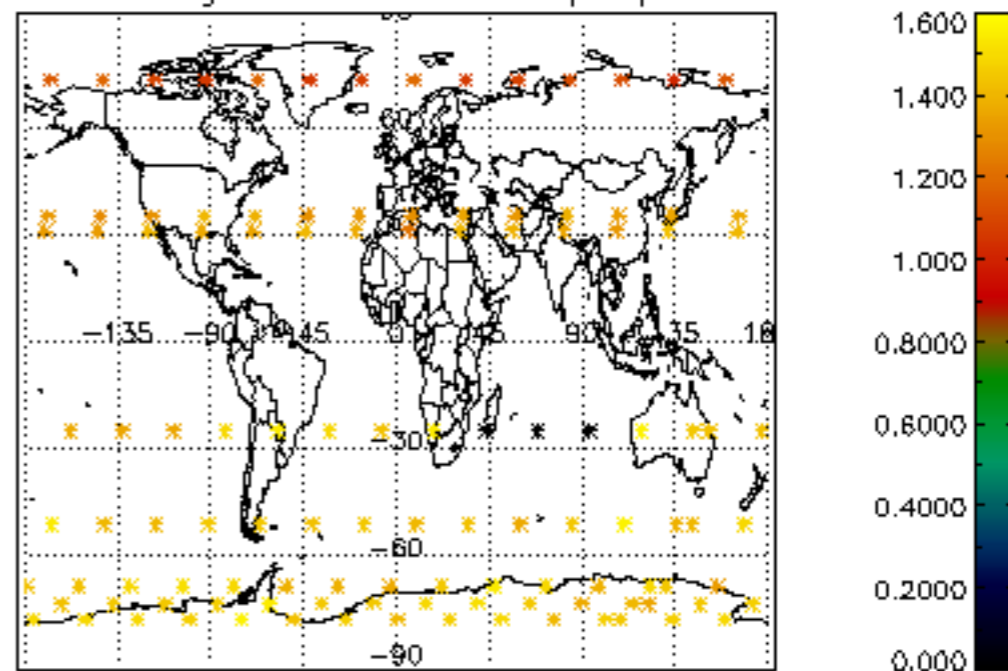
Percentage of saturation errors per profile



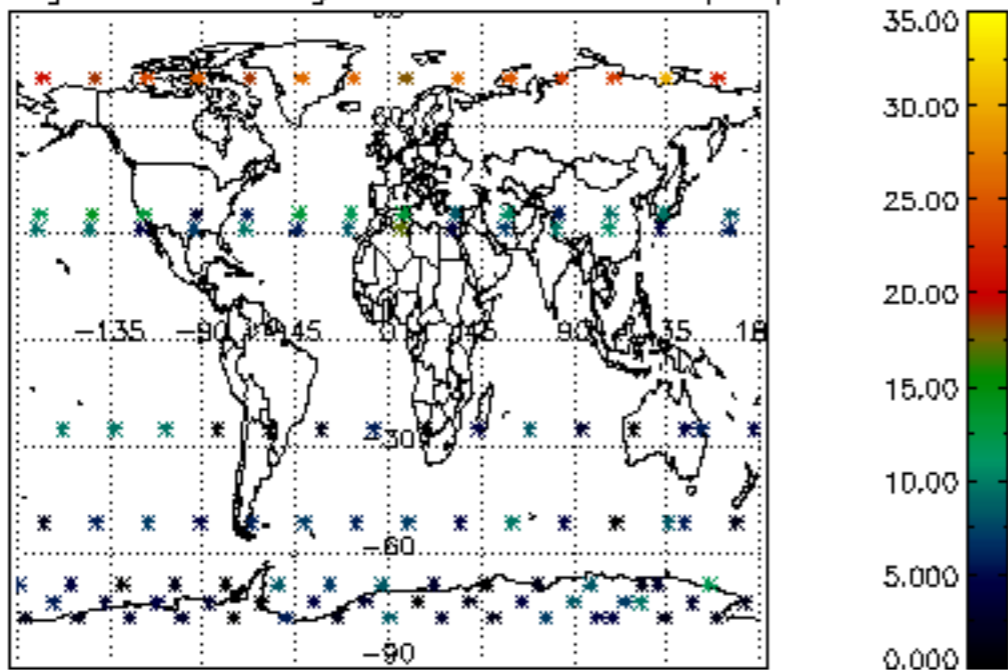
Percentage of cosmic ray hits per profile



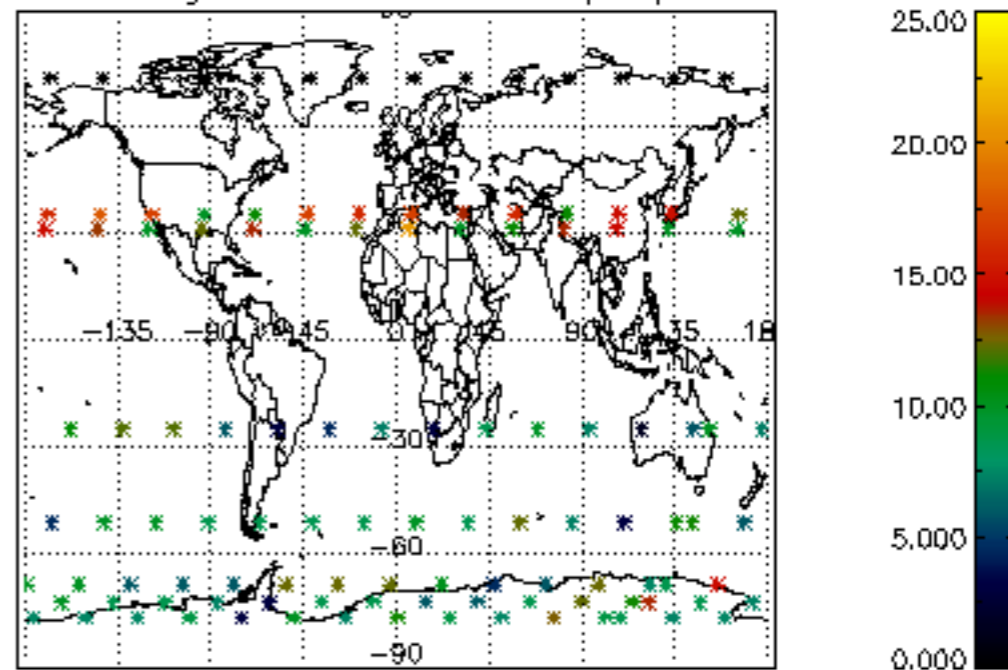
Percentage of datation errors per profile

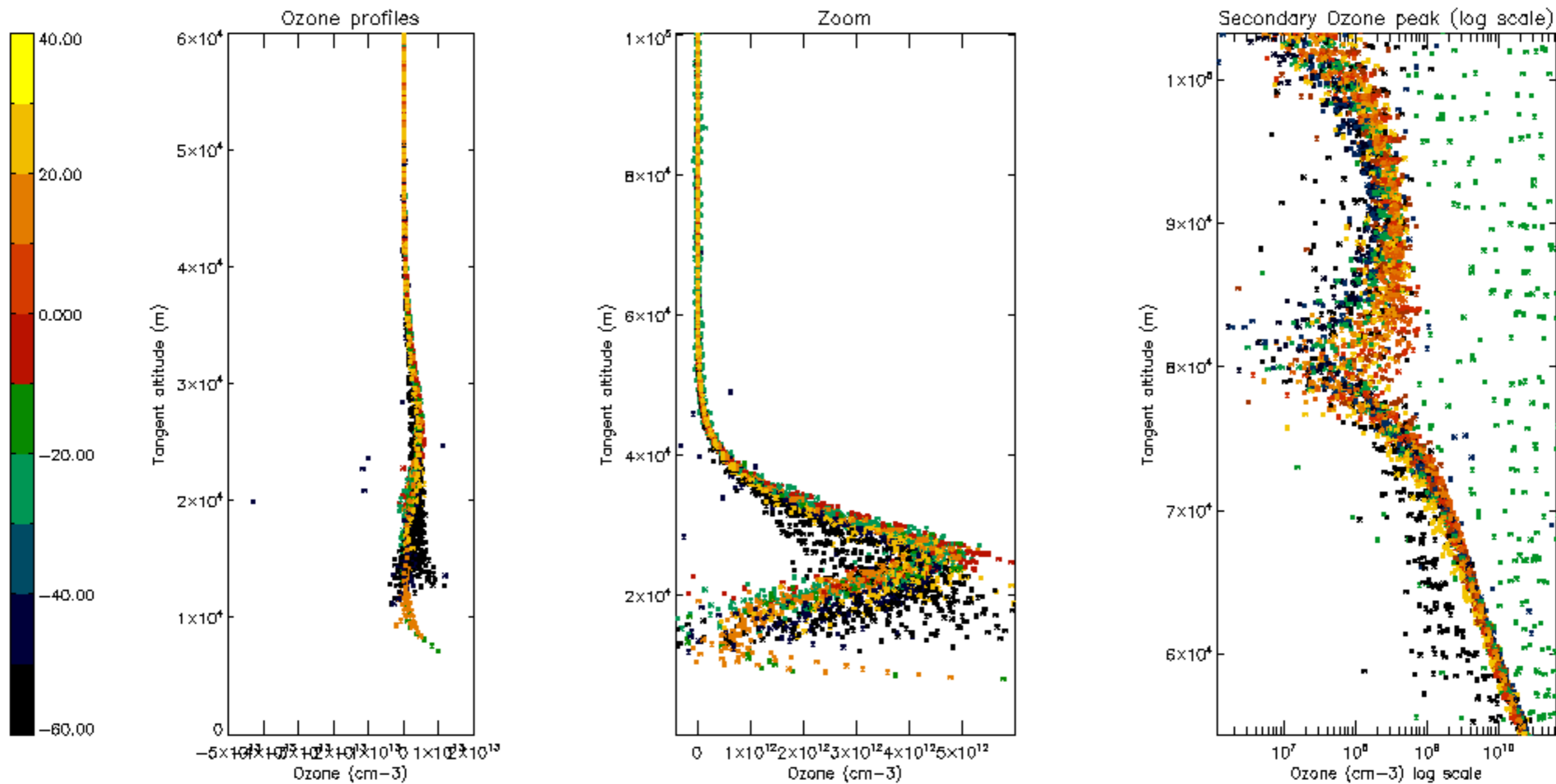


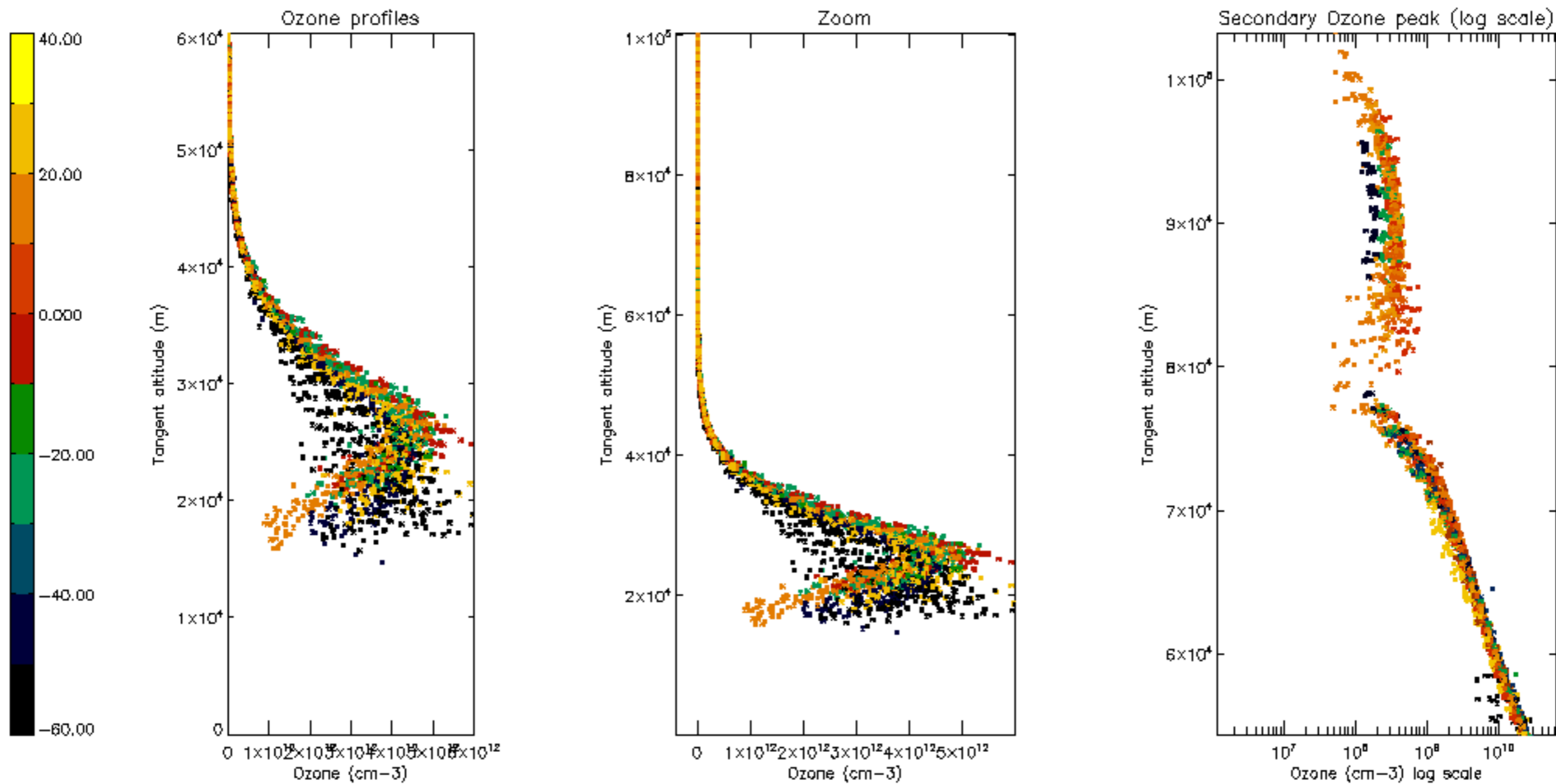
Percentage of star falling outside central band per profile

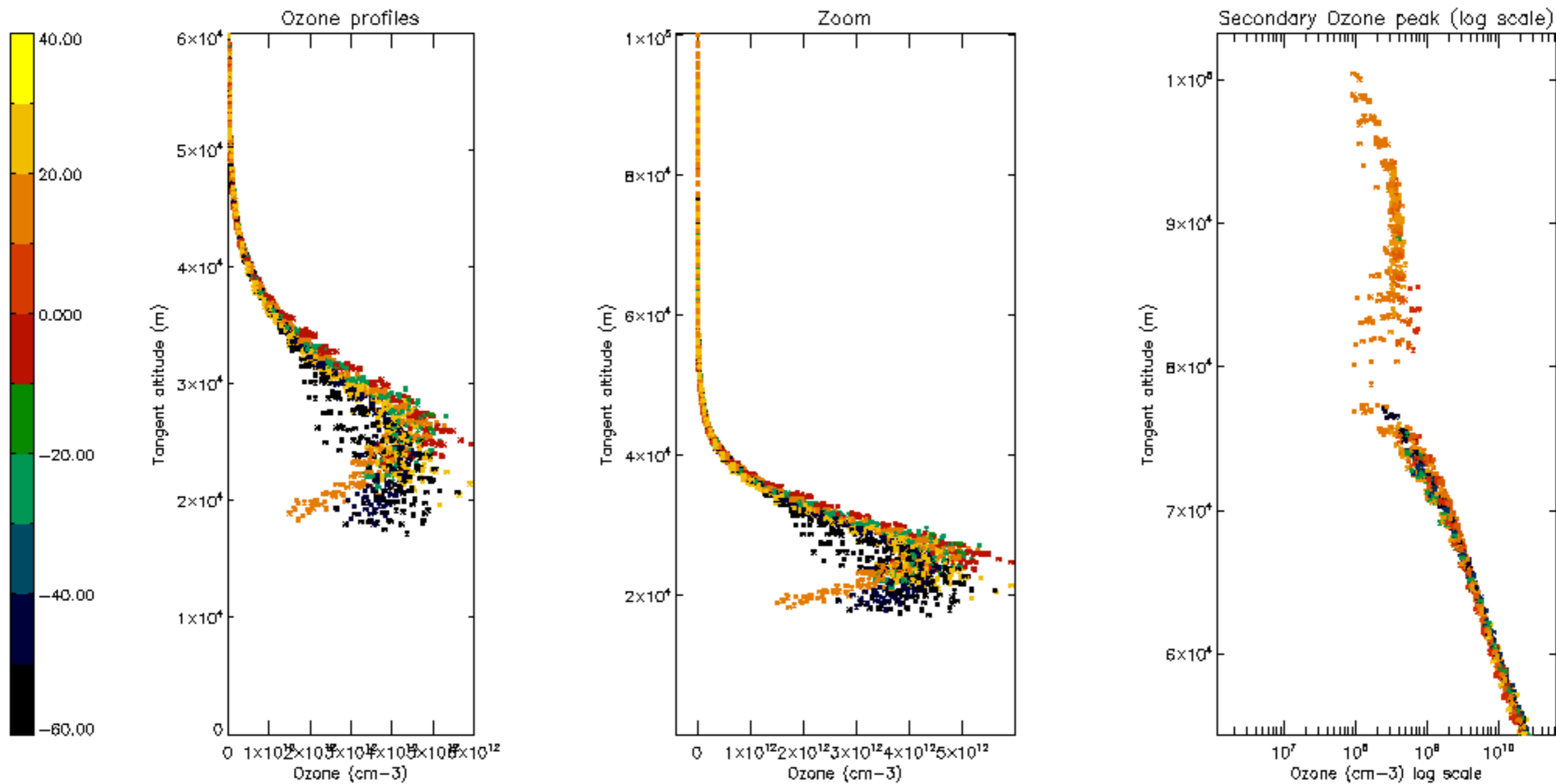


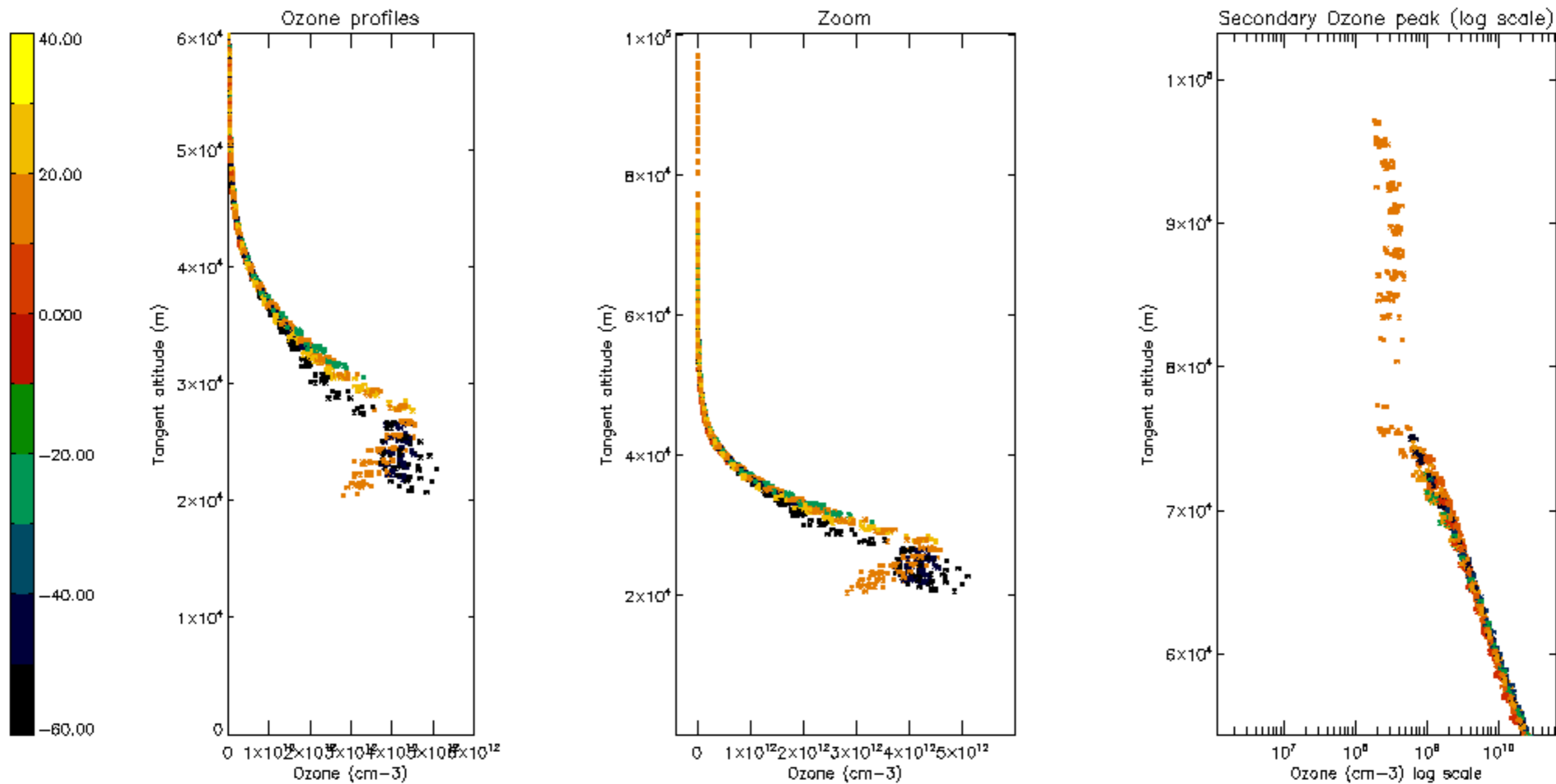
Percentage of saturation errors per profile

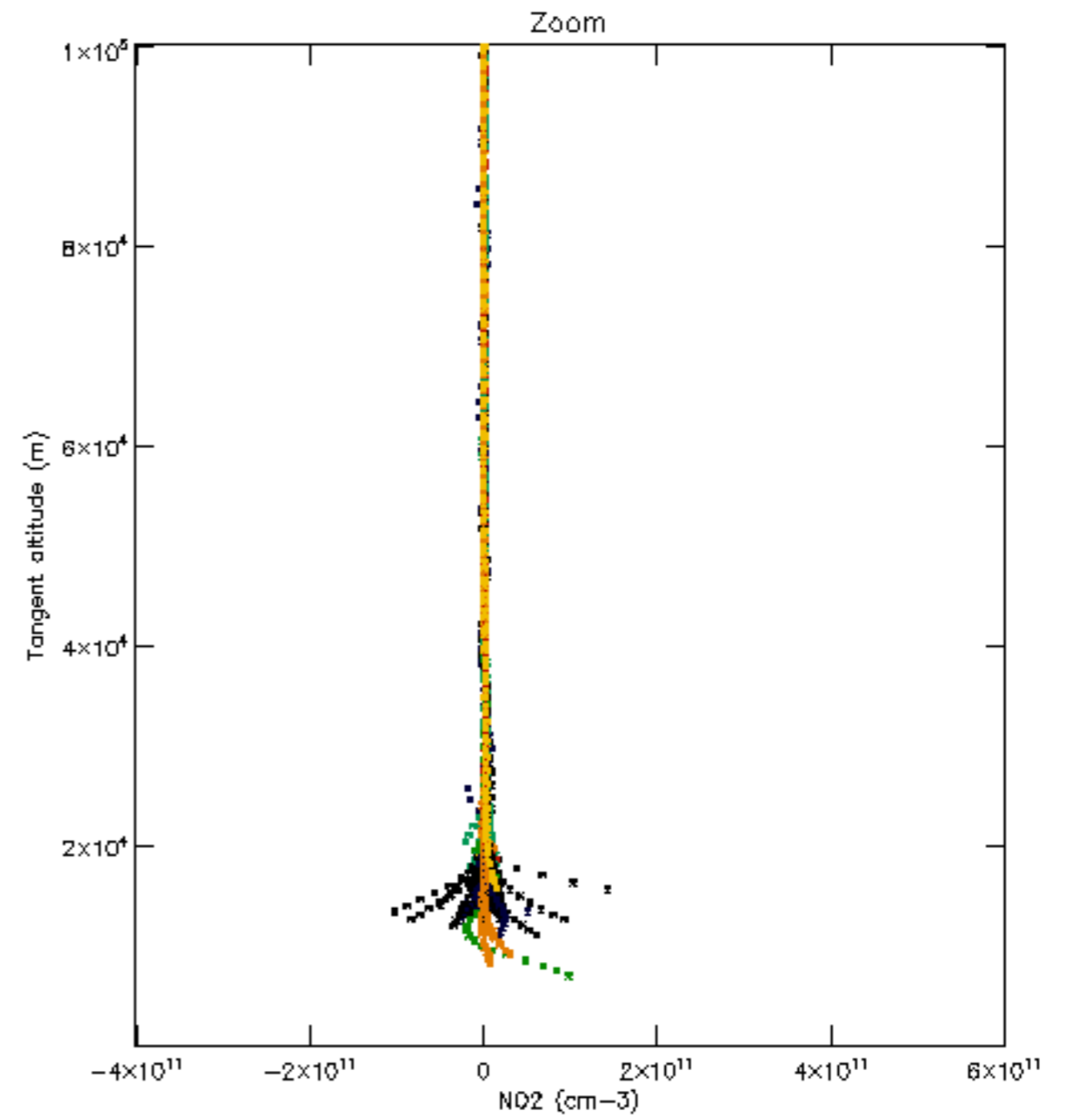
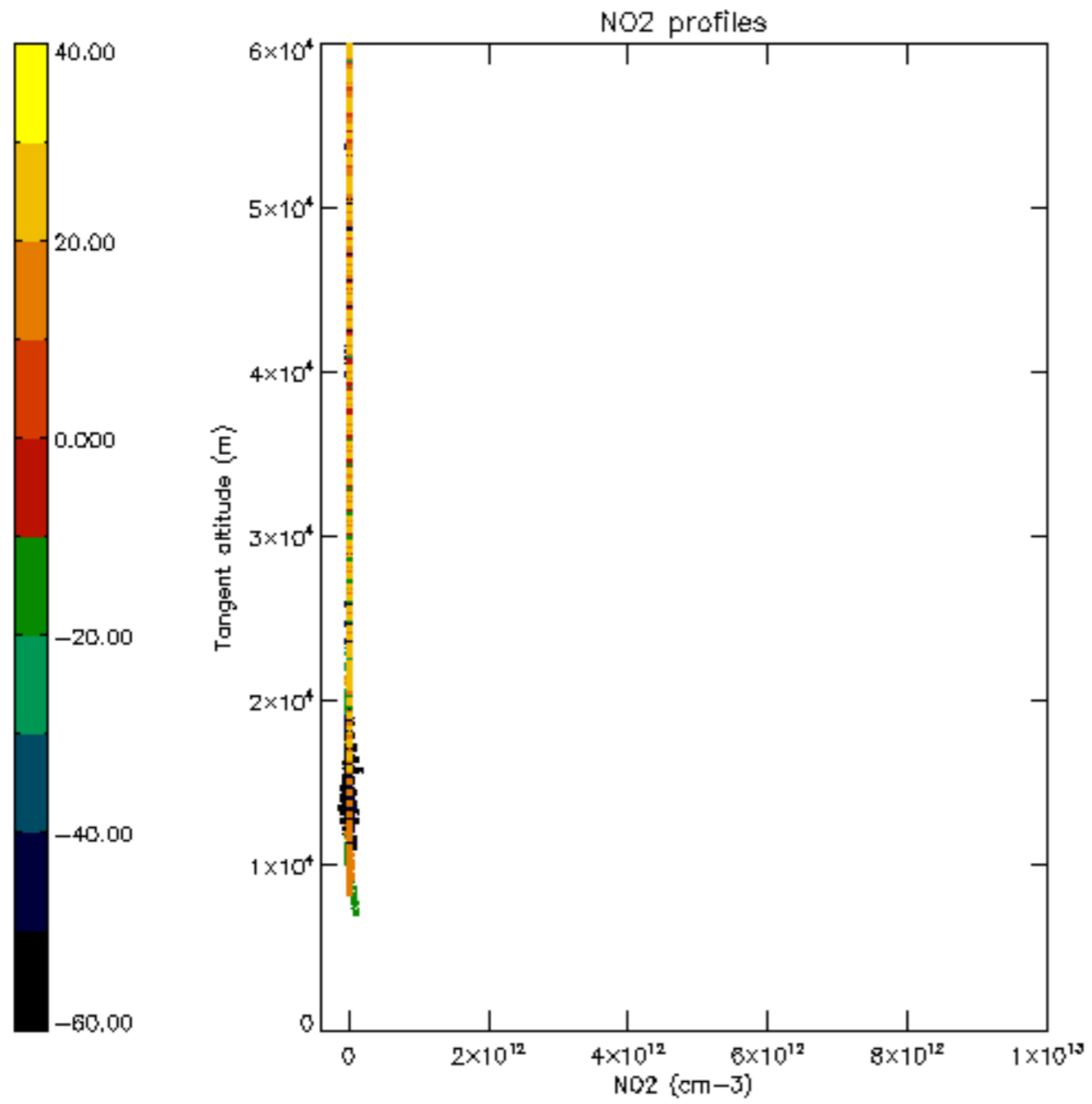


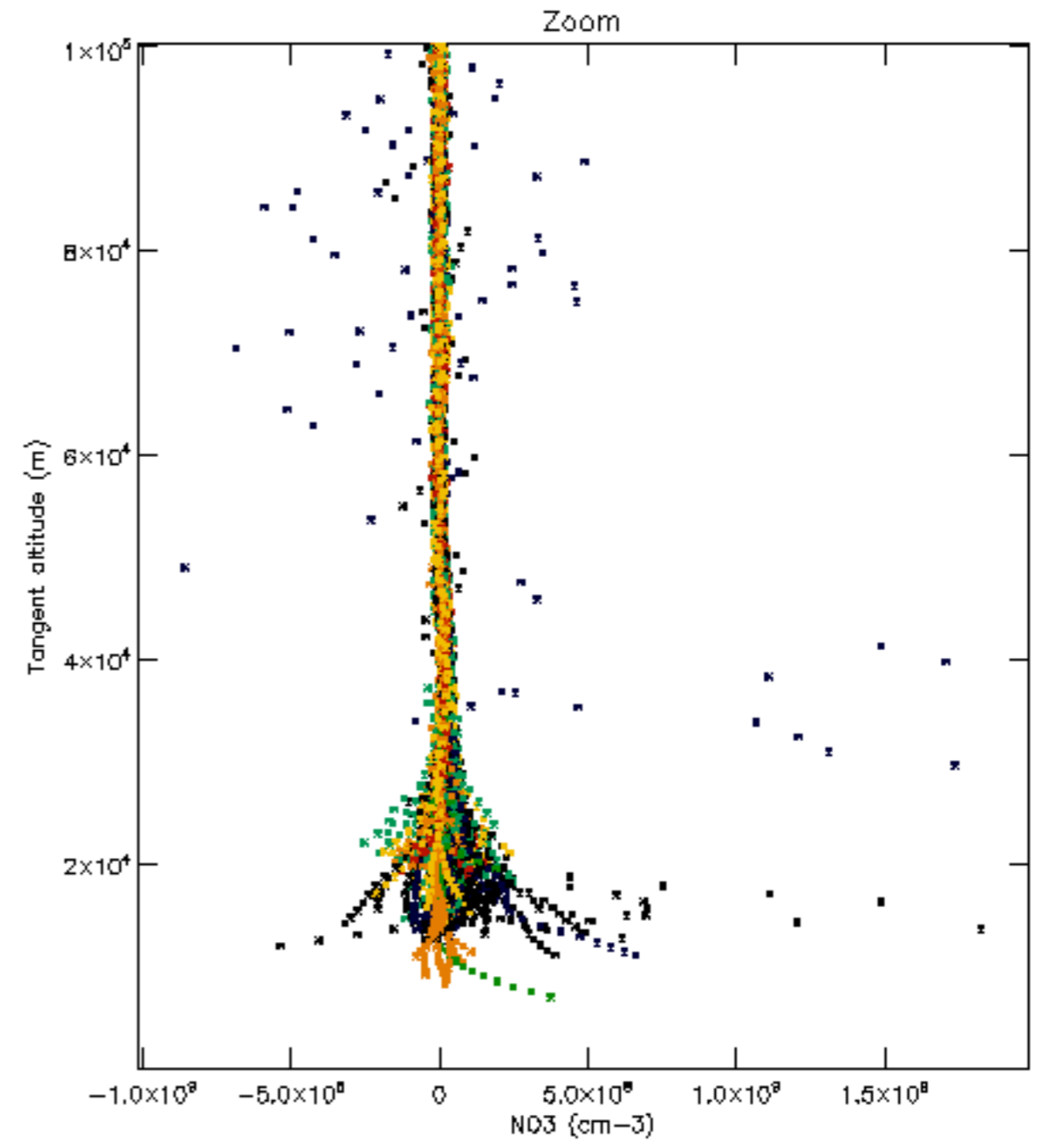
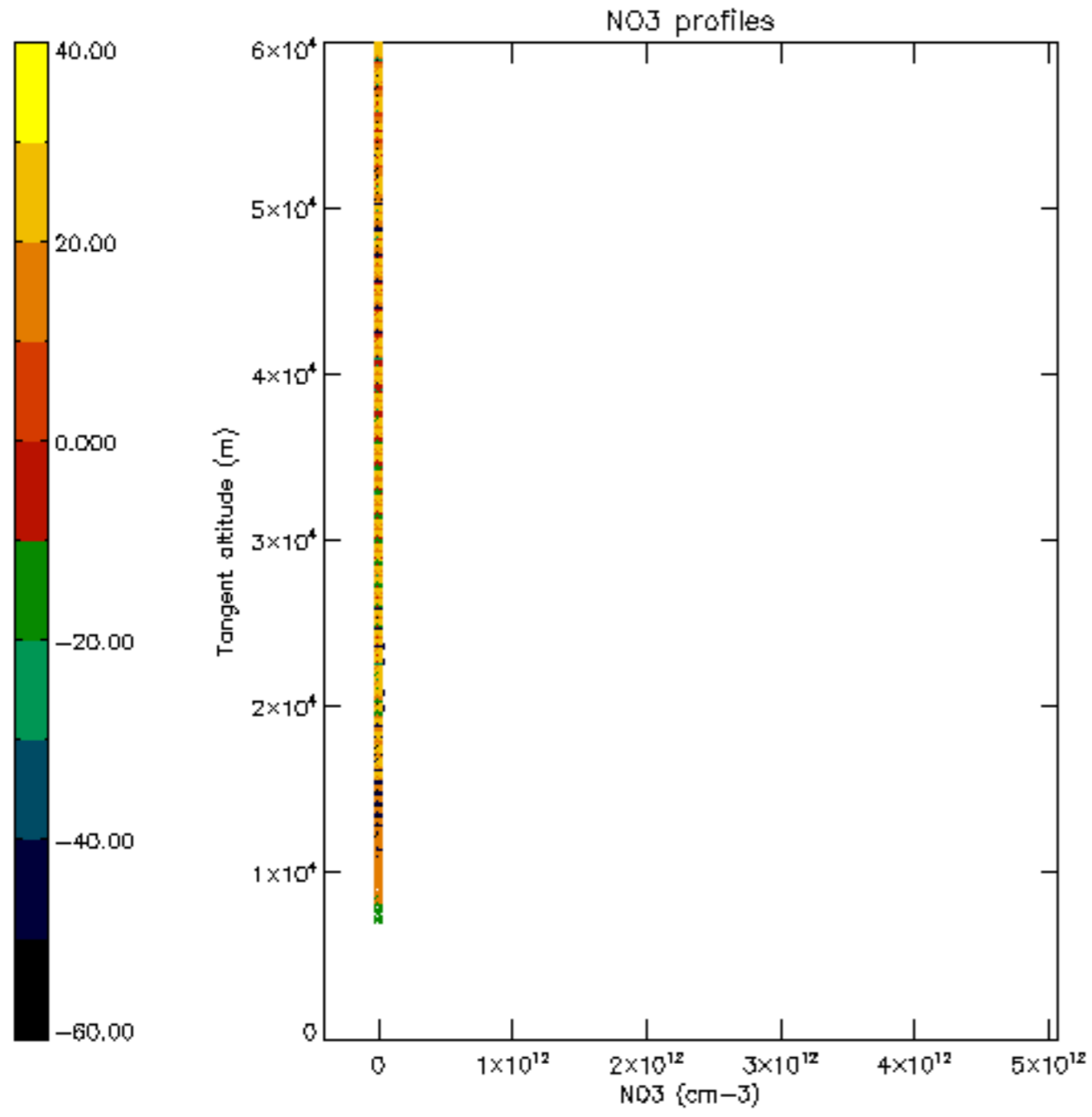


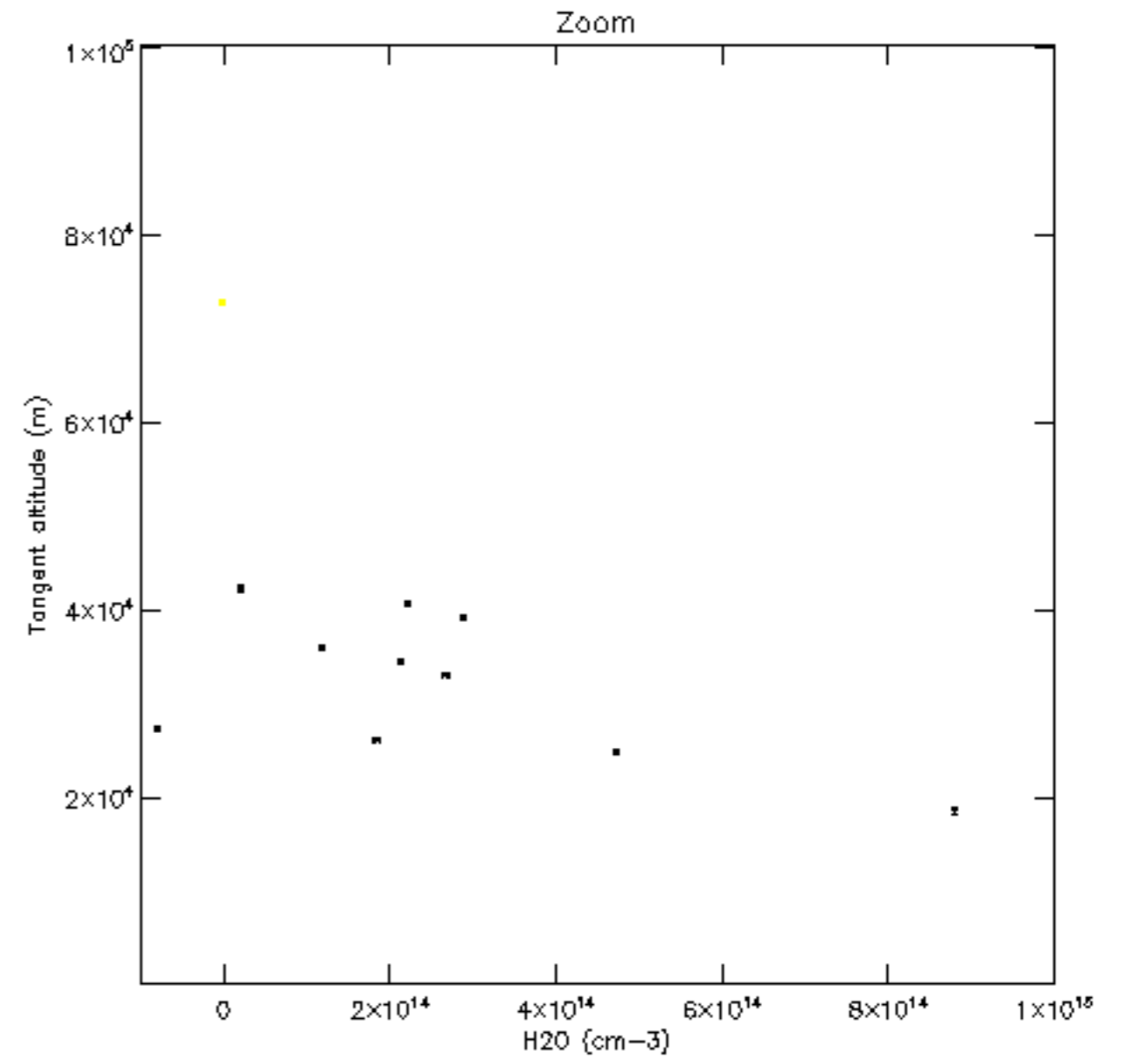
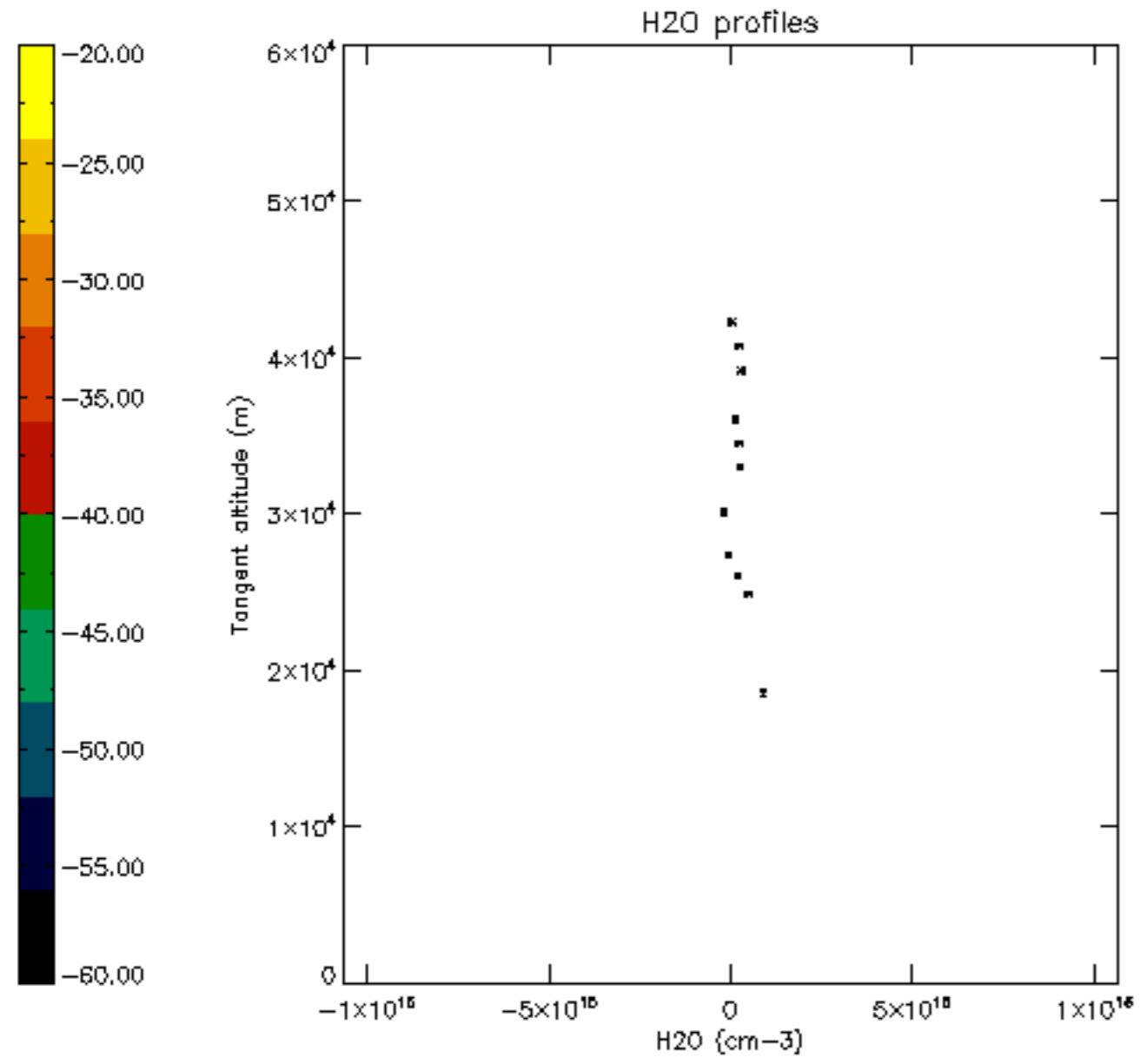


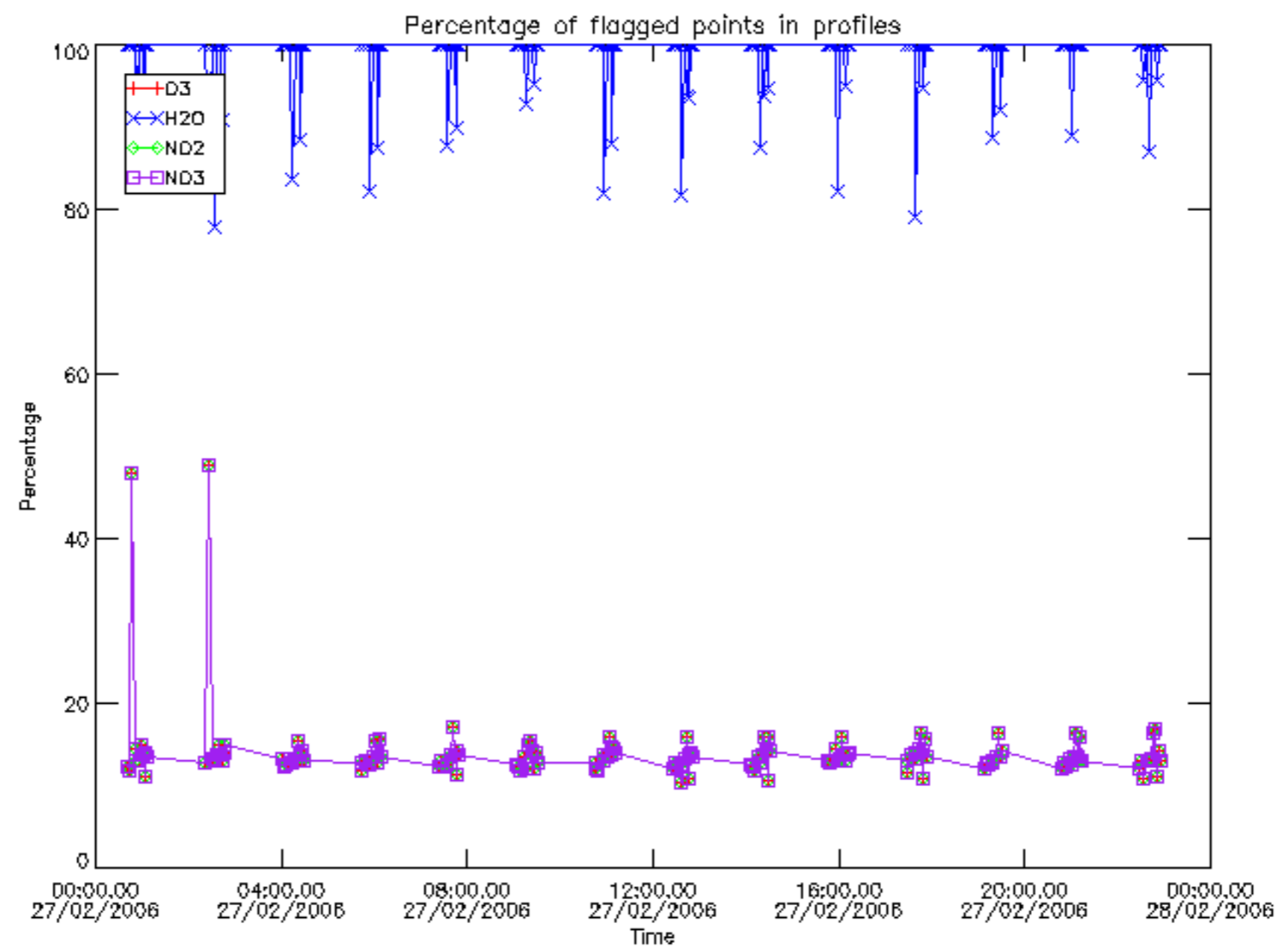




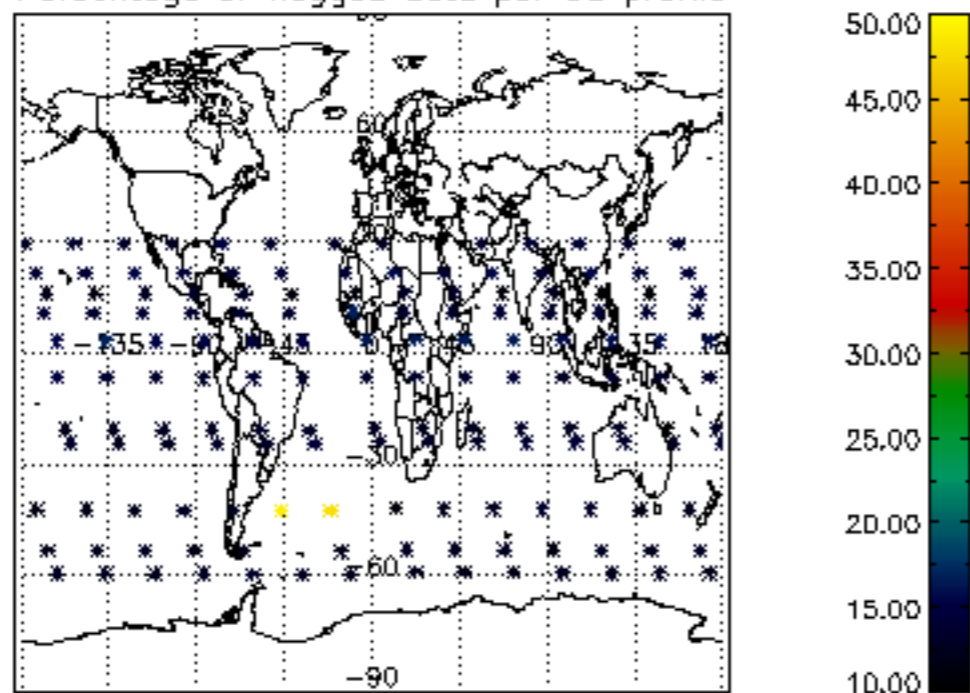




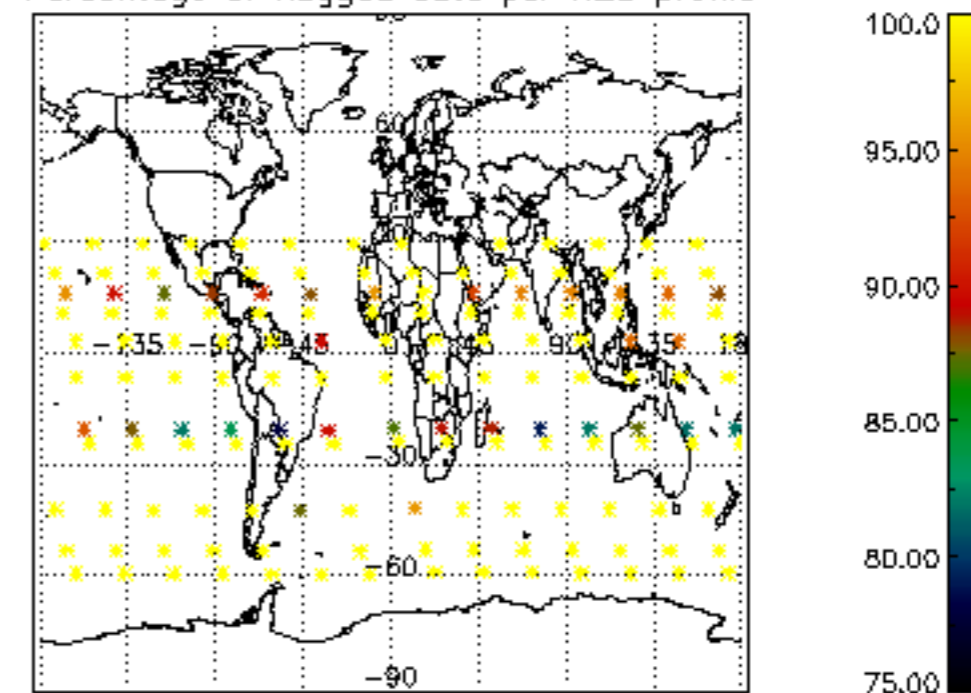




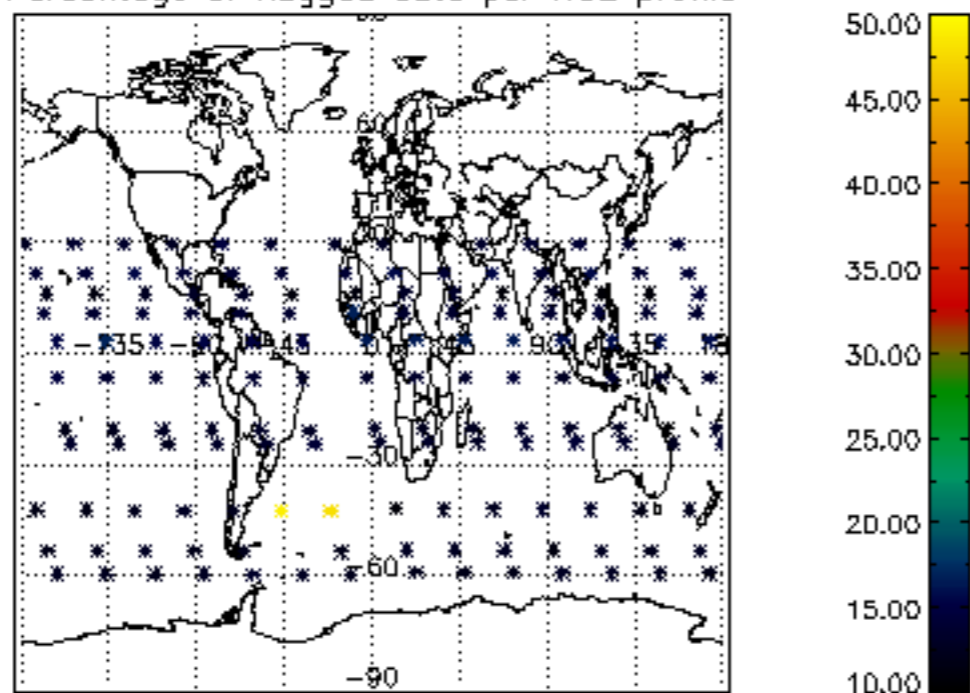
Percentage of flagged data per D3 profile



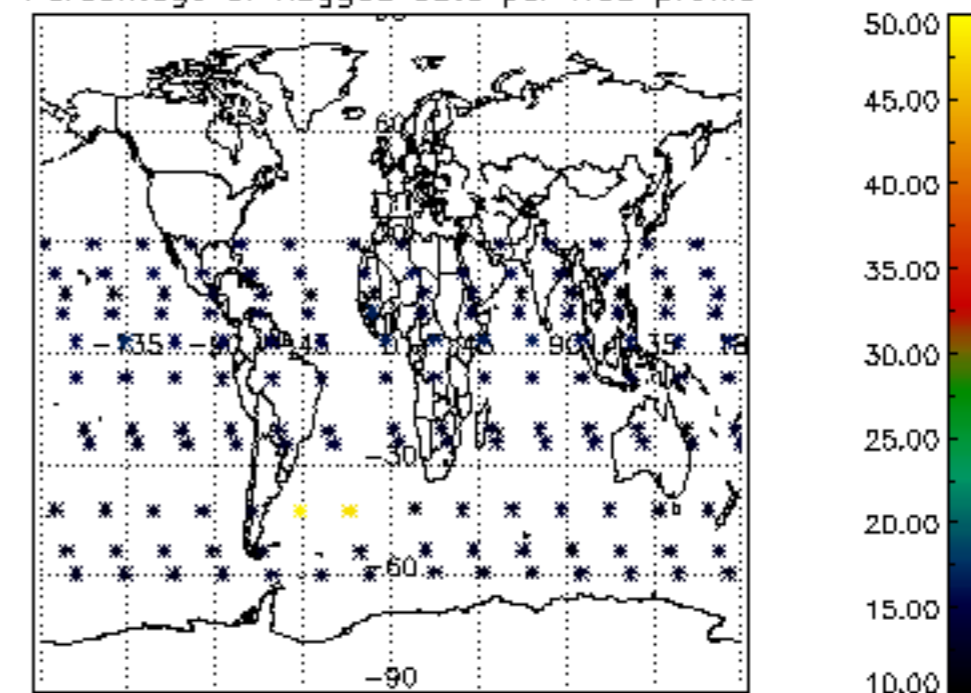
Percentage of flagged data per H2O profile

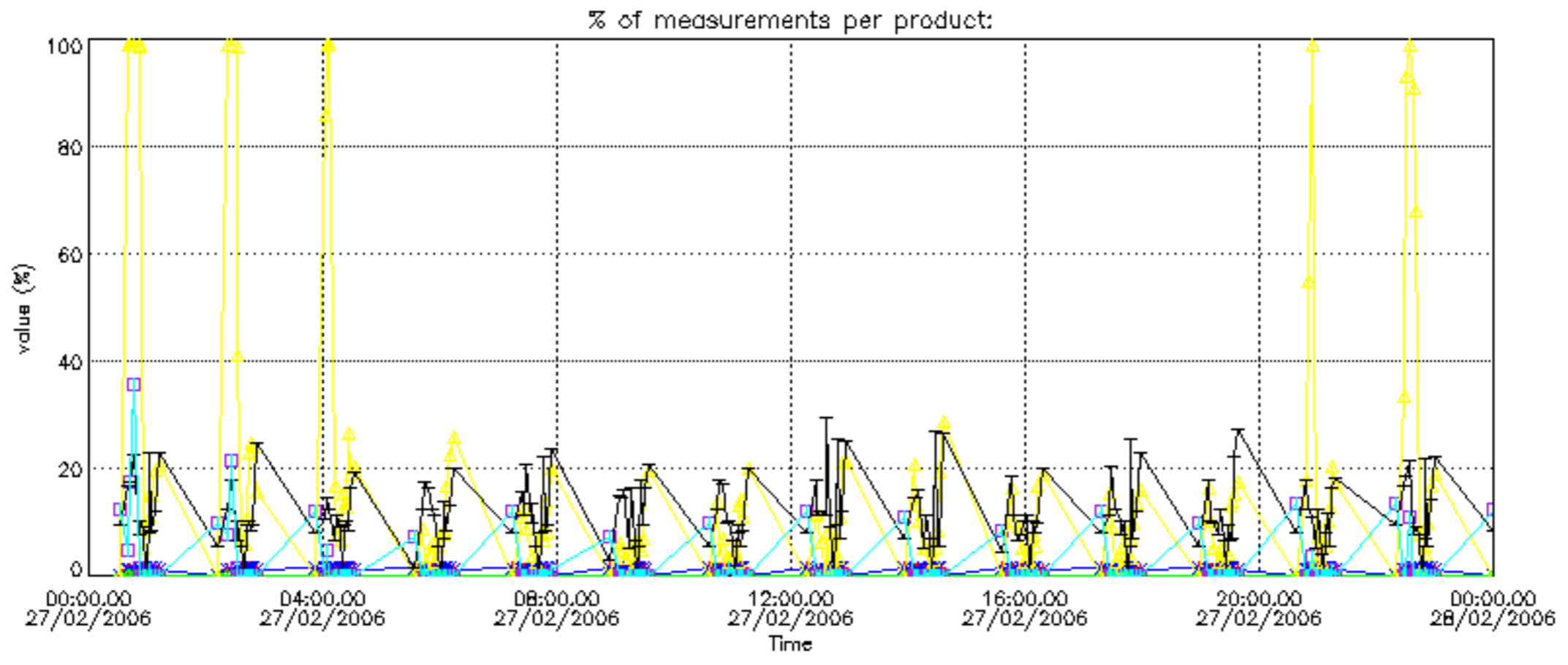


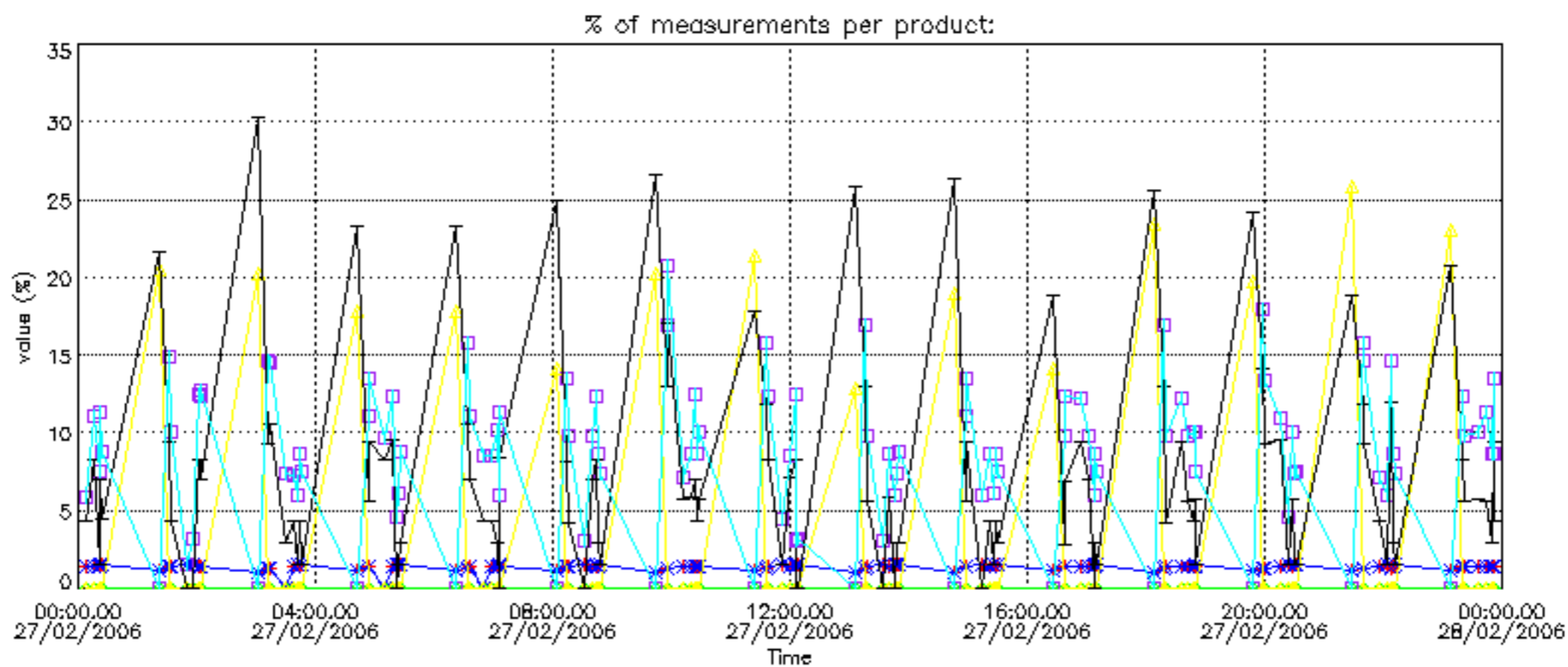
Percentage of flagged data per NO2 profile



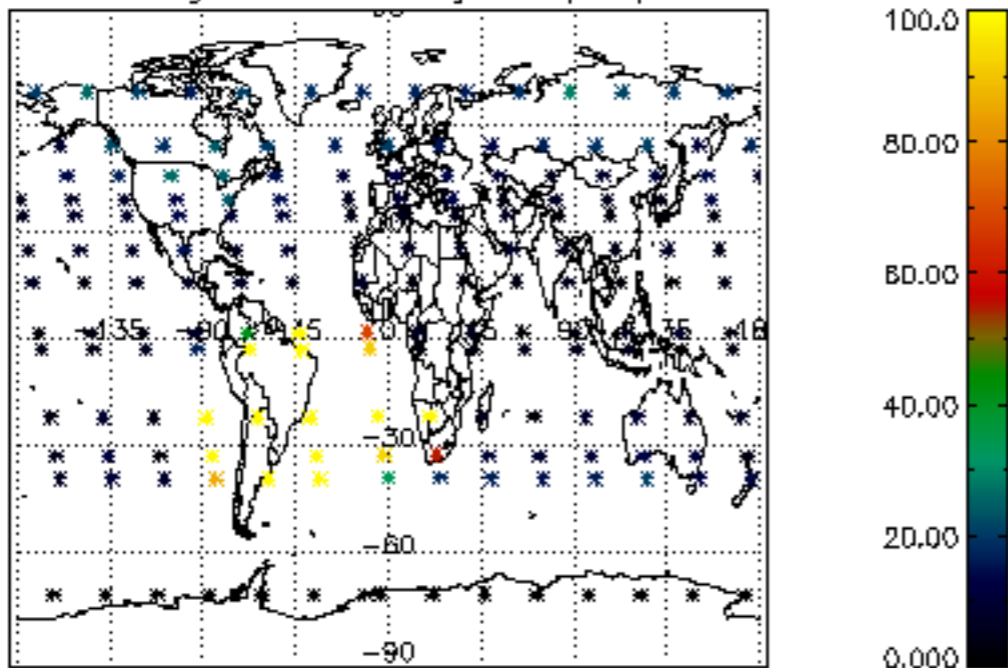
Percentage of flagged data per NO3 profile



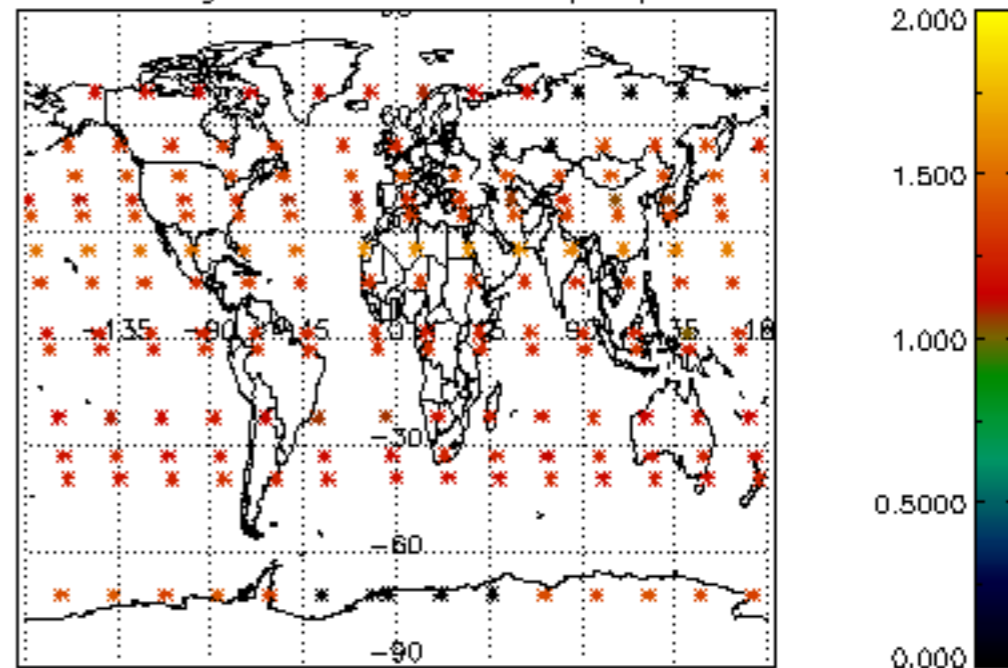




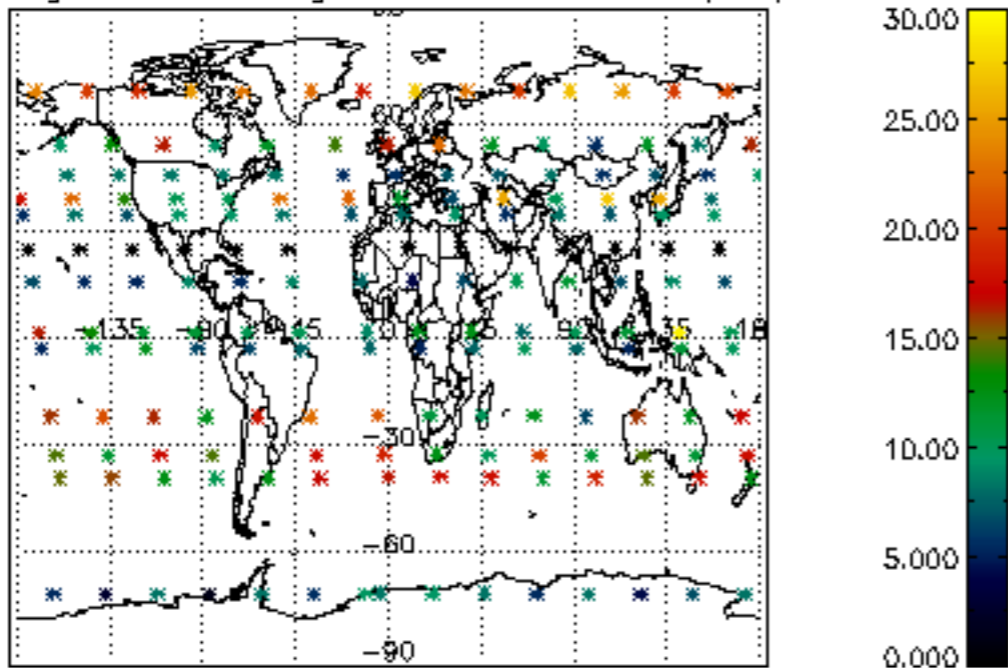
Percentage of cosmic ray hits per profile



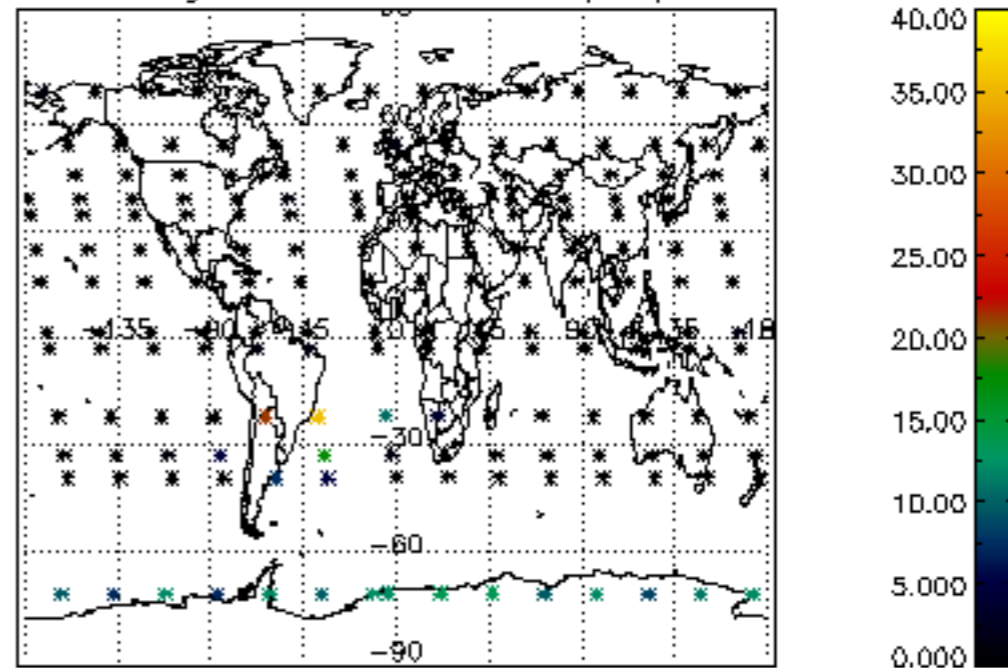
Percentage of datation errors per profile



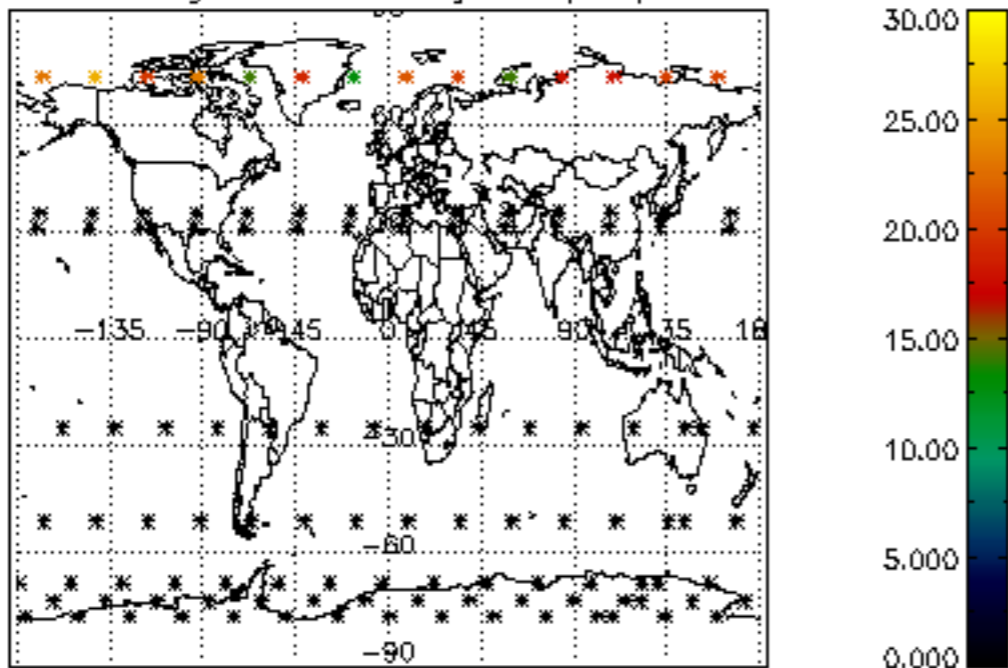
Percentage of star falling outside central band per profile



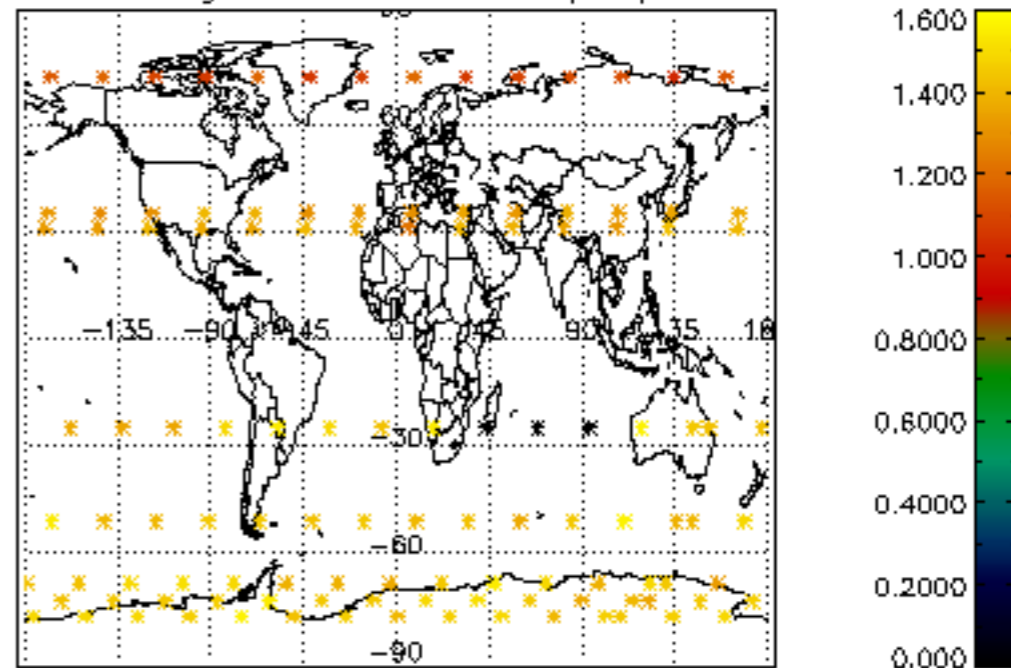
Percentage of saturation errors per profile



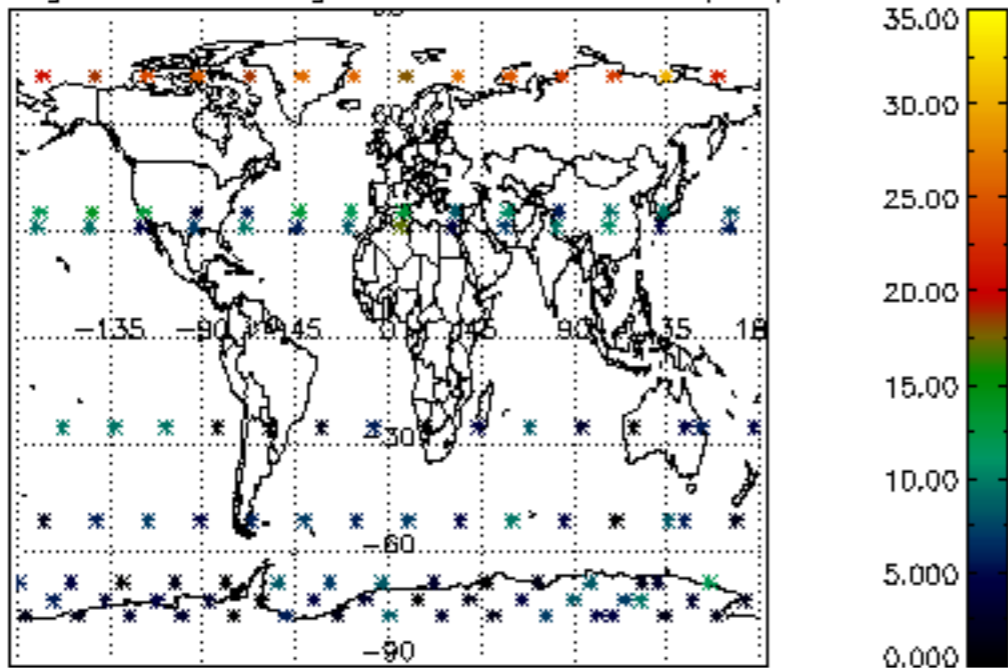
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

