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This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	24APR2013 00:10:39
Data source version	GOMOS/6.01
Start time of products	20-06-2006 (20JUN2006 00:00:00)
Stop time of products	21-06-2006 (21JUN2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	236
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

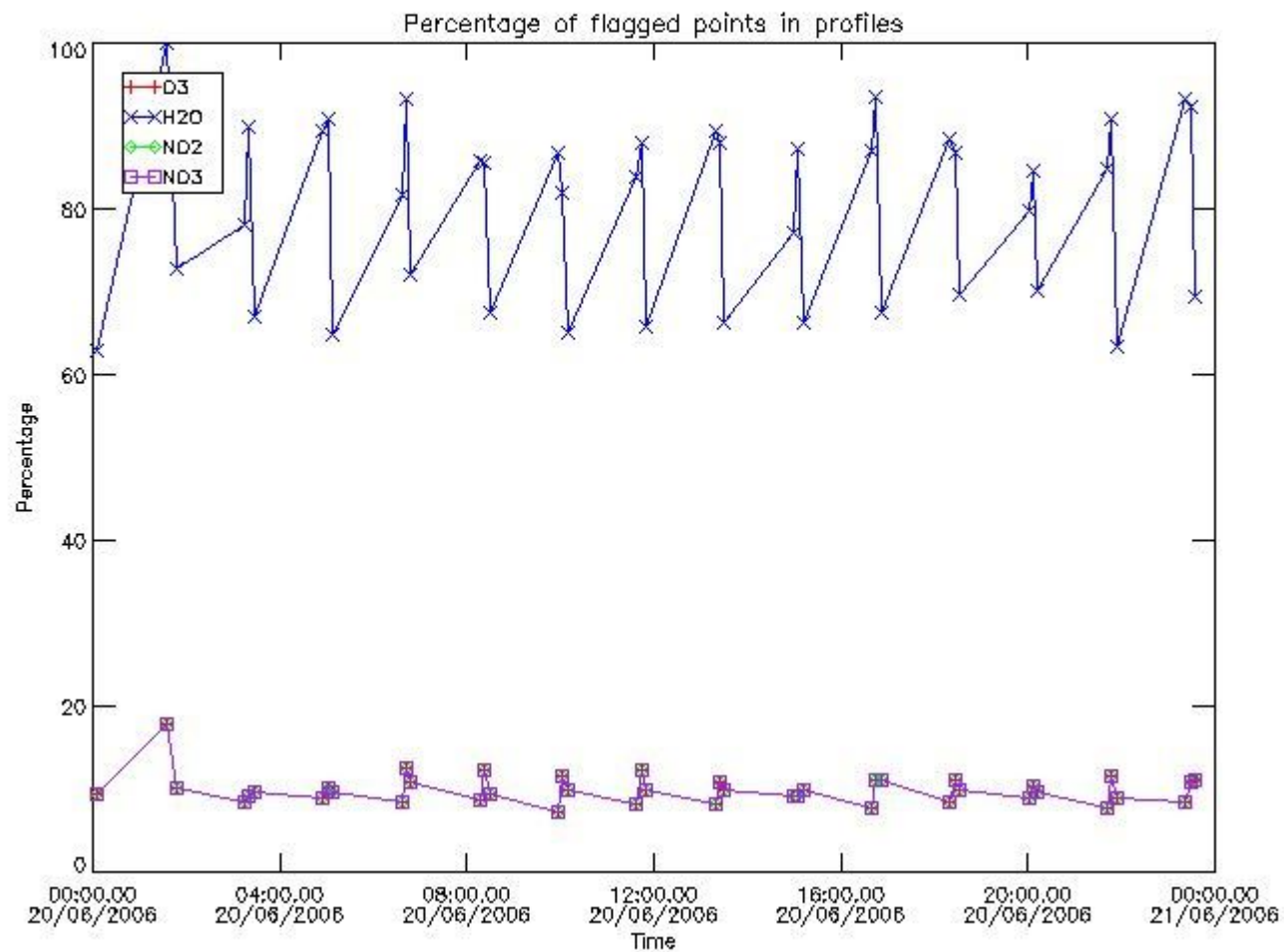
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060620_000550_000000552048_00403_22501_9324.N1	20-JUN-2006 00:05:50	Dark	54.500	63	Bet Gru	2.1500	2800.0	109	22501	No
2	GOM_NL__2PRFIN20060620_000753_000000482048_00403_22501_9325.N1	20-JUN-2006 00:07:53	Straylight	47.500	31	Alp Gru	1.7340	15200.	95	22501	No
3	GOM_NL__2PRFIN20060620_001121_000000422048_00403_22501_9326.N1	20-JUN-2006 00:11:21	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	22501	No
4	GOM_NL__2PRFIN20060620_002047_000000432048_00403_22501_9327.N1	20-JUN-2006 00:20:47	Twilight	43.000	38	20Eps Sgr	1.8360	11000.	86	22501	No
5	GOM_NL__2PRFIN20060620_002214_000000502048_00403_22501_9328.N1	20-JUN-2006 00:22:14	Twilight	50.000	116	19Del Sgr	2.7000	4100.0	100	22501	No
6	GOM_NL__2PRFIN20060620_003337_000000412048_00403_22501_9329.N1	20-JUN-2006 00:33:37	Bright	40.500	126	60Bet Oph	2.7700	4250.0	81	22501	No
7	GOM_NL__2PRFIN20060620_003605_000000412048_00403_22501_9330.N1	20-JUN-2006 00:36:05	Bright	40.500	59	55Alp Oph	2.0800	8900.0	81	22501	No
8	GOM_NL__2PRFIN20060620_004749_000000402048_00403_22501_9331.N1	20-JUN-2006 00:47:49	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	22501	No
9	GOM_NL__2PRFIN20060620_005755_000000452048_00403_22501_9332.N1	20-JUN-2006 00:57:55	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	22501	No
10	GOM_NL__2PRFIN20060620_010440_000000432048_00403_22501_9333.N1	20-JUN-2006 01:04:40	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	22501	No
11	GOM_NL__2PRFIN20060620_010607_000000452048_00403_22501_9334.N1	20-JUN-2006 01:06:07	Bright	44.500	68	18Alp Cas	2.2250	4500.0	89	22501	No
12	GOM_NL__2PRFIN20060620_011132_000000432048_00403_22501_9335.N1	20-JUN-2006 01:11:32	Bright	42.500	73	57Gam1And	2.2600	13100.	85	22501	No
13	GOM_NL__2PRFIN20060620_011356_000000622048_00403_22501_9336.N1	20-JUN-2006 01:13:56	Twilight	61.500	53	43Bet And	2.0480	3300.0	123	22501	No
14	GOM_NL__2PRFIN20060620_011736_000000542048_00403_22501_9337.N1	20-JUN-2006 01:17:36	Twilight	53.500	50	13Alp Ari	2.0070	4250.0	107	22501	No
15	GOM_NL__2PRFIN20060620_013409_000000542048_00403_22501_9338.N1	20-JUN-2006 01:34:09	Dark	54.000	52	16Bet Cet	2.0370	4500.0	108	22501	No
16	GOM_NL__2PRFIN20060620_014627_000000502048_00404_22502_9268.N1	20-JUN-2006 01:46:27	Dark	50.000	63	Bet Gru	2.1500	2800.0	100	22502	No
17	GOM_NL__2PRFIN20060620_014830_000000482048_00404_22502_9269.N1	20-JUN-2006 01:48:30	Straylight	48.000	31	Alp Gru	1.7340	15200.	96	22502	No
18	GOM_NL__2PRFIN20060620_015158_000000412048_00404_22502_9270.N1	20-JUN-2006 01:51:58	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	22502	No
19	GOM_NL__2PRFIN20060620_020123_000000522048_00404_22502_9271.N1	20-JUN-2006 02:01:23	Twilight	51.500	38	20Eps Sgr	1.8360	11000.	103	22502	No
20	GOM_NL__2PRFIN20060620_020251_000000482048_00404_22502_9272.N1	20-JUN-2006 02:02:51	Twilight	47.500	116	19Del Sgr	2.7000	4100.0	95	22502	No
21	GOM_NL__2PRFIN20060620_021413_000000412048_00404_22502_9273.N1	20-JUN-2006 02:14:13	Bright	41.000	126	60Bet Oph	2.7700	4250.0	82	22502	No
22	GOM_NL__2PRFIN20060620_021640_000000412048_00404_22502_9274.N1	20-JUN-2006 02:16:40	Bright	40.500	59	55Alp Oph	2.0800	8900.0	81	22502	No
23	GOM_NL__2PRFIN20060620_022825_000000362048_00404_22502_9275.N1	20-JUN-2006 02:28:25	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	22502	No
24	GOM_NL__2PRFIN20060620_023830_000000452048_00404_22502_9276.N1	20-JUN-2006 02:38:30	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	22502	No
25	GOM_NL__2PRFIN20060620_024515_000000442048_00404_22502_9277.N1	20-JUN-2006 02:45:15	Bright	43.500	74	11Bet Cas	2.2680	6600.0	87	22502	No
26	GOM_NL__2PRFIN20060620_024643_000000462048_00404_22502_9278.N1	20-JUN-2006 02:46:43	Bright	46.000	68	18Alp Cas	2.2250	4500.0	92	22502	No
27	GOM_NL__2PRFIN20060620_025208_000000432048_00404_22502_9279.N1	20-JUN-2006 02:52:08	Bright	42.500	73	57Gam1And	2.2600	13100.	85	22502	No
28	GOM_NL__2PRFIN20060620_025432_000000582048_00404_22502_9280.N1	20-JUN-2006 02:54:32	Twilight	58.000	53	43Bet And	2.0480	3300.0	116	22502	No
29	GOM_NL__2PRFIN20060620_025812_000000532048_00404_22502_9281.N1	20-JUN-2006 02:58:12	Twilight	53.000	50	13Alp Ari	2.0070	4250.0	106	22502	No
30	GOM_NL__2PRFIN20060620_031446_000000602048_00404_22502_9282.N1	20-JUN-2006 03:14:46	Dark	60.000	52	16Bet Cet	2.0370	4500.0	120	22502	No
31	GOM_NL__2PRFIN20060620_032041_000000552048_00404_22502_9283.N1	20-JUN-2006 03:20:41	Dark	55.000	84	Alp Phe	2.3970	4500.0	110	22502	No
32	GOM_NL__2PRFIN20060620_032704_000000542048_00405_22503_9268.N1	20-JUN-2006 03:27:04	Dark	53.500	63	Bet Gru	2.1500	2800.0	107	22503	No
33	GOM_NL__2PRFIN20060620_032907_000000482048_00405_22503_9269.N1	20-JUN-2006 03:29:07	Straylight	48.000	31	Alp Gru	1.7340	15200.	96	22503	No
34	GOM_NL__2PRFIN20060620_033234_000000422048_00405_22503_9270.N1	20-JUN-2006 03:32:34	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	22503	No
35	GOM_NL__2PRFIN20060620_034200_000000492048_00405_22503_9271.N1	20-JUN-2006 03:42:00	Twilight	48.500	38	20Eps Sgr	1.8360	11000.	97	22503	No
36	GOM_NL__2PRFIN20060620_034327_000000482048_00405_22503_9272.N1	20-JUN-2006 03:43:27	Twilight	47.500	116	19Del Sgr	2.7000	4100.0	95	22503	No
37	GOM_NL__2PRFIN20060620_035449_000000412048_00405_22503_9273.N1	20-JUN-2006 03:54:49	Bright	41.000	126	60Bet Oph	2.7700	4250.0	82	22503	No
38	GOM_NL__2PRFIN20060620_035716_000000402048_00405_22503_9274.N1	20-JUN-2006 03:57:16	Bright	39.500	59	55Alp Oph	2.0800	8900.0	79	22503	No
39	GOM_NL__2PRFIN20060620_040900_000000382048_00405_22503_9275.N1	20-JUN-2006 04:09:00	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	22503	No
40	GOM_NL__2PRFIN20060620_041906_000000442048_00405_22503_9276.N1	20-JUN-2006 04:19:06	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	22503	No
41	GOM_NL__2PRFIN20060620_042551_000000422048_00405_22503_9277.N1	20-JUN-2006 04:25:51	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	22503	No
42	GOM_NL__2PRFIN20060620_042719_000000462048_00405_22503_9278.N1	20-JUN-2006 04:27:19	Bright	46.000	68	18Alp Cas	2.2250	4500.0	92	22503	No

220	GOM_NL__2PRFIN20060620_222123_000000412048_00416_22514_9294.N1	20-JUN-2006 22:21:23	Bright	40.500	126	60Bet Oph	2.7700	4250.0	81	22514	No
221	GOM_NL__2PRFIN20060620_222349_000000402048_00416_22514_9295.N1	20-JUN-2006 22:23:49	Bright	40.000	59	55Alp Oph	2.0800	8900.0	80	22514	No
222	GOM_NL__2PRFIN20060620_223532_000000392048_00416_22514_9296.N1	20-JUN-2006 22:35:32	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	22514	No
223	GOM_NL__2PRFIN20060620_224534_000000452048_00416_22514_9297.N1	20-JUN-2006 22:45:34	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	22514	No
224	GOM_NL__2PRFIN20060620_225222_000000442048_00416_22514_9298.N1	20-JUN-2006 22:52:22	Bright	43.500	74	11Bet Cas	2.2680	6600.0	87	22514	No
225	GOM_NL__2PRFIN20060620_225351_000000442048_00416_22514_9299.N1	20-JUN-2006 22:53:51	Bright	43.500	68	18Alp Cas	2.2250	4500.0	87	22514	No
226	GOM_NL__2PRFIN20060620_225920_000000422048_00416_22514_9300.N1	20-JUN-2006 22:59:20	Bright	42.000	73	57Gam1And	2.2600	13100.	84	22514	No
227	GOM_NL__2PRFIN20060620_230144_000000562048_00416_22514_9301.N1	20-JUN-2006 23:01:44	Twilight	56.000	53	43Bet And	2.0480	3300.0	112	22514	No
228	GOM_NL__2PRFIN20060620_230526_000000572048_00416_22514_9302.N1	20-JUN-2006 23:05:26	Twilight	56.500	50	13Alp Ari	2.0070	4250.0	113	22514	No
229	GOM_NL__2PRFIN20060620_232212_000000612048_00416_22514_9303.N1	20-JUN-2006 23:22:12	Dark	60.500	52	16Bet Cet	2.0370	4500.0	121	22514	No
230	GOM_NL__2PRFIN20060620_232803_000000472048_00416_22514_9304.N1	20-JUN-2006 23:28:03	Dark	46.500	84	Alp Phe	2.3970	4500.0	93	22514	No
231	GOM_NL__2PRFIN20060620_233427_000000512048_00417_22515_9288.N1	20-JUN-2006 23:34:27	Dark	51.000	63	Bet Gru	2.1500	2800.0	102	22515	No
232	GOM_NL__2PRFIN20060620_233630_000000492048_00417_22515_9289.N1	20-JUN-2006 23:36:30	Straylight	49.000	31	Alp Gru	1.7340	15200.	98	22515	No
233	GOM_NL__2PRFIN20060620_233953_000000422048_00417_22515_9290.N1	20-JUN-2006 23:39:53	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	22515	No
234	GOM_NL__2PRFIN20060620_234915_000000462048_00417_22515_9291.N1	20-JUN-2006 23:49:15	Twilight	46.000	38	20Eps Sgr	1.8360	11000.	92	22515	No
235	GOM_NL__2PRFIN20060620_235042_000000482048_00417_22515_9292.N1	20-JUN-2006 23:50:42	Twilight	47.500	116	19Del Sgr	2.7000	4100.0	95	22515	No
236	GOM_NL__2PRFIN20060620_235159_000000482048_00417_22515_9293.N1	20-JUN-2006 23:51:59	Bright	48.000	137	22Lam Sgr	2.8240	4400.0	96	22515	No

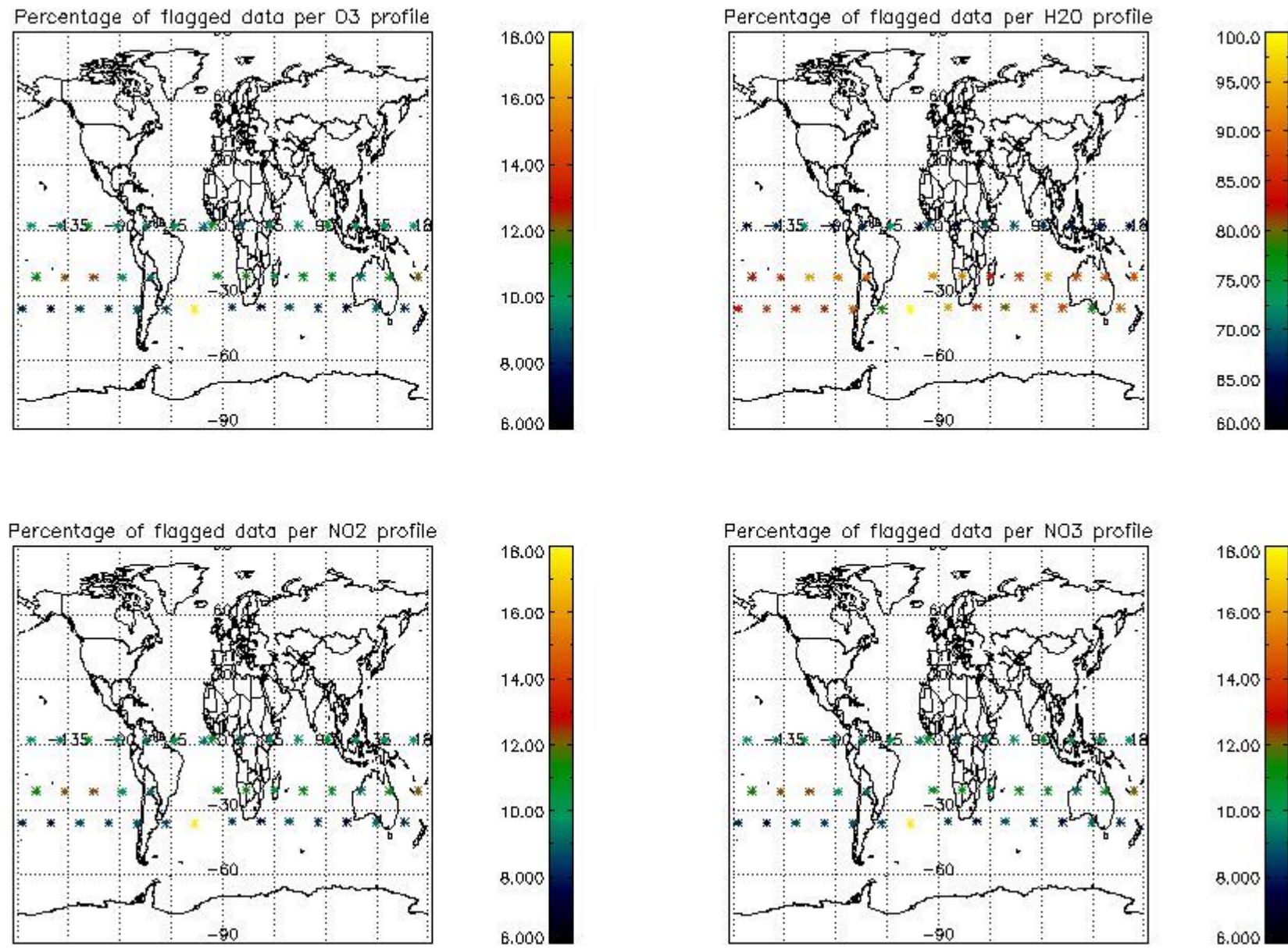
3. Quality information per product

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)

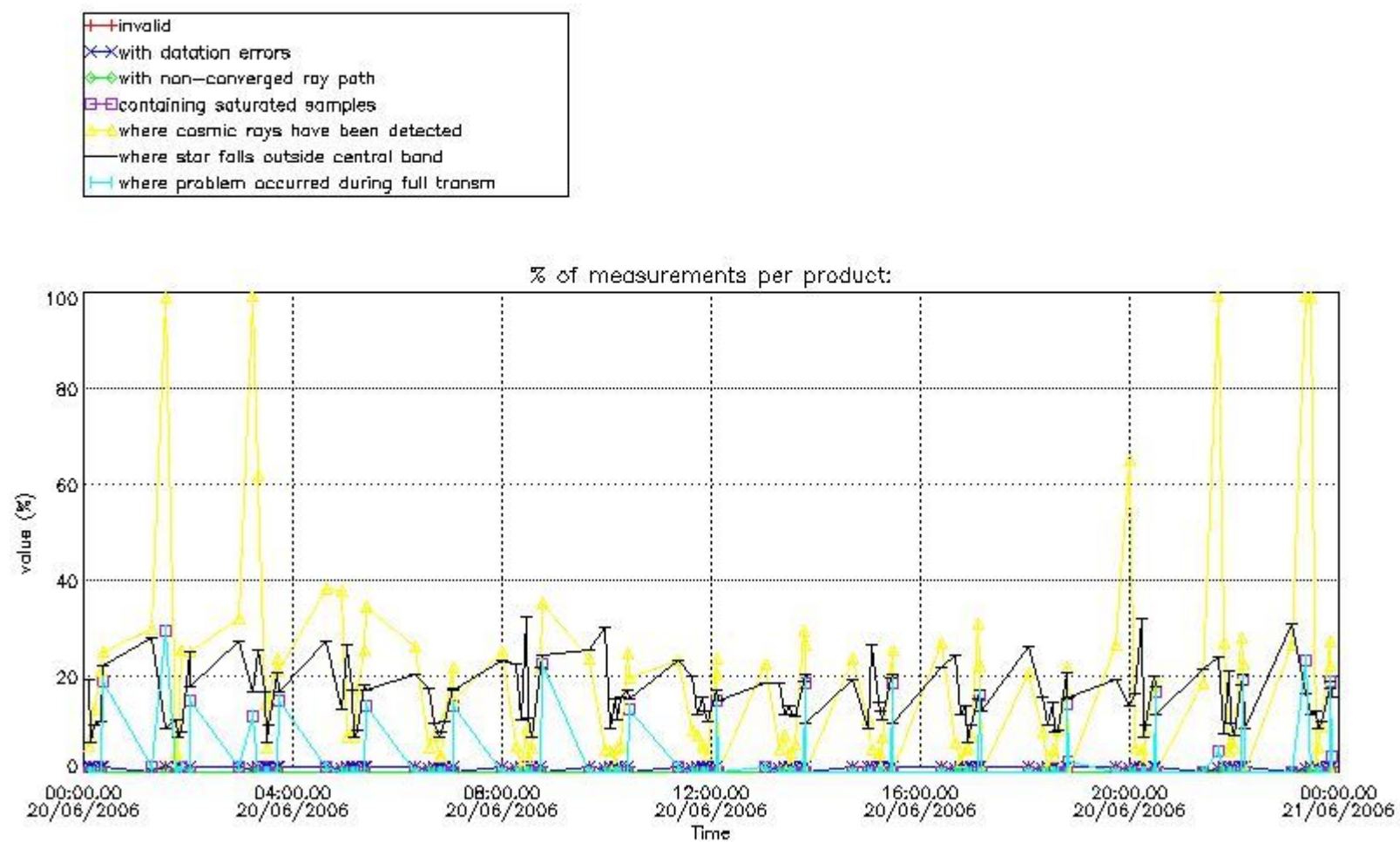


4. Level 1 quality information per product

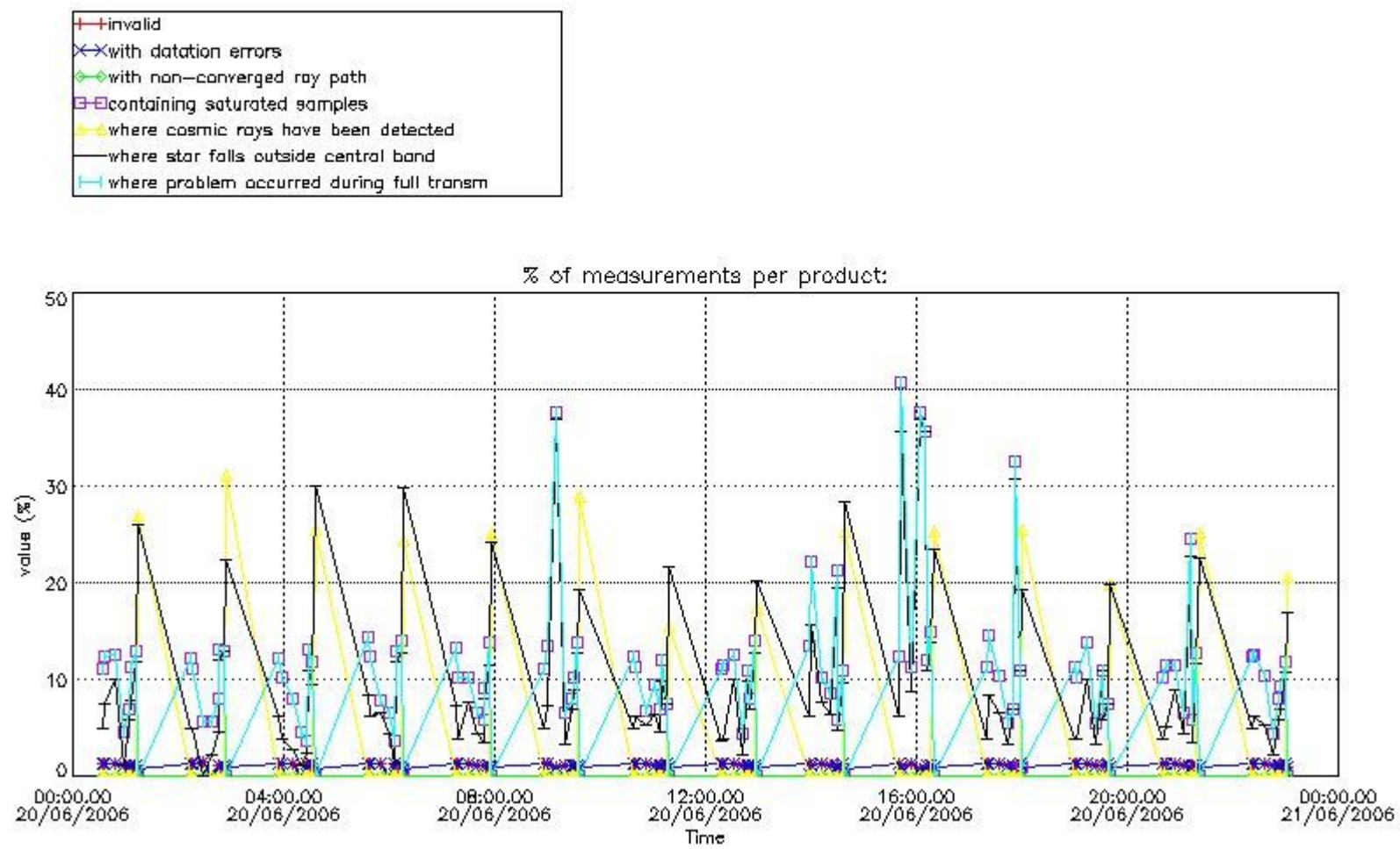
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

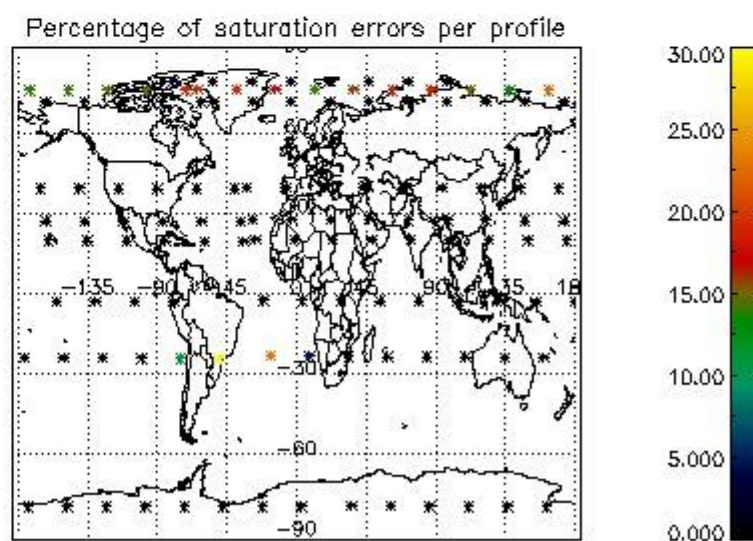
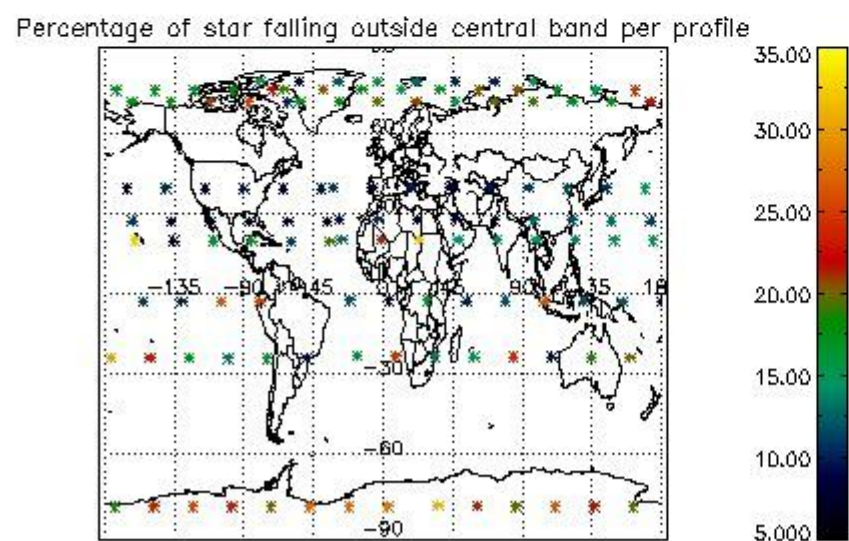
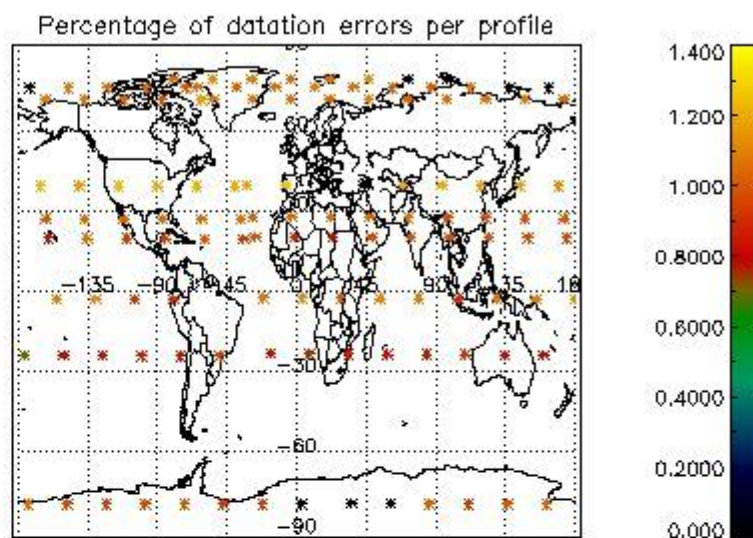
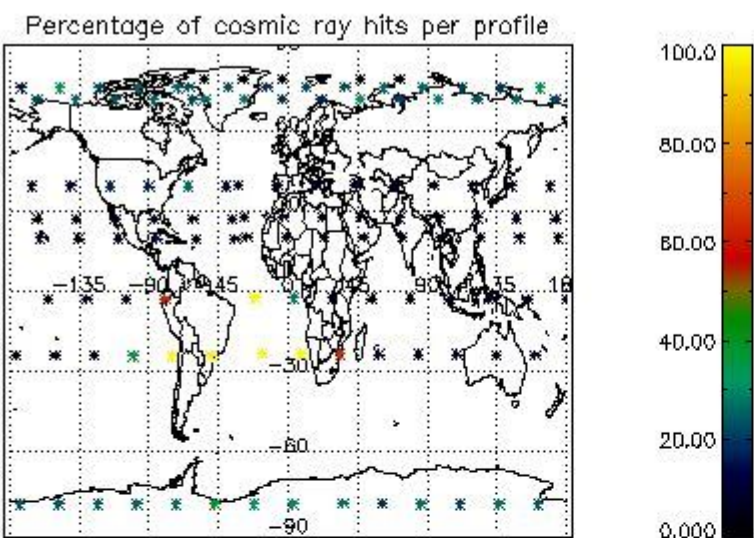


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

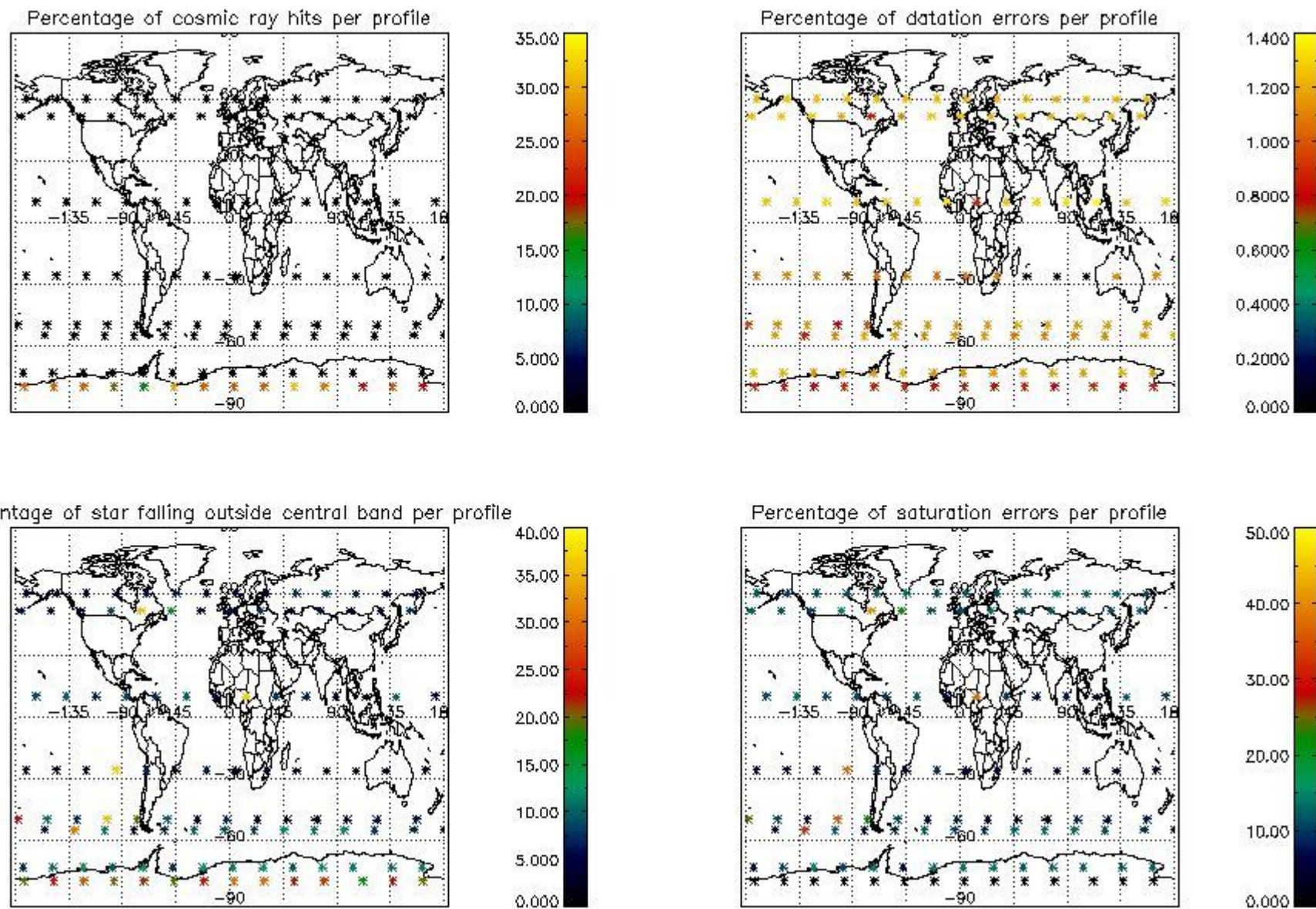


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

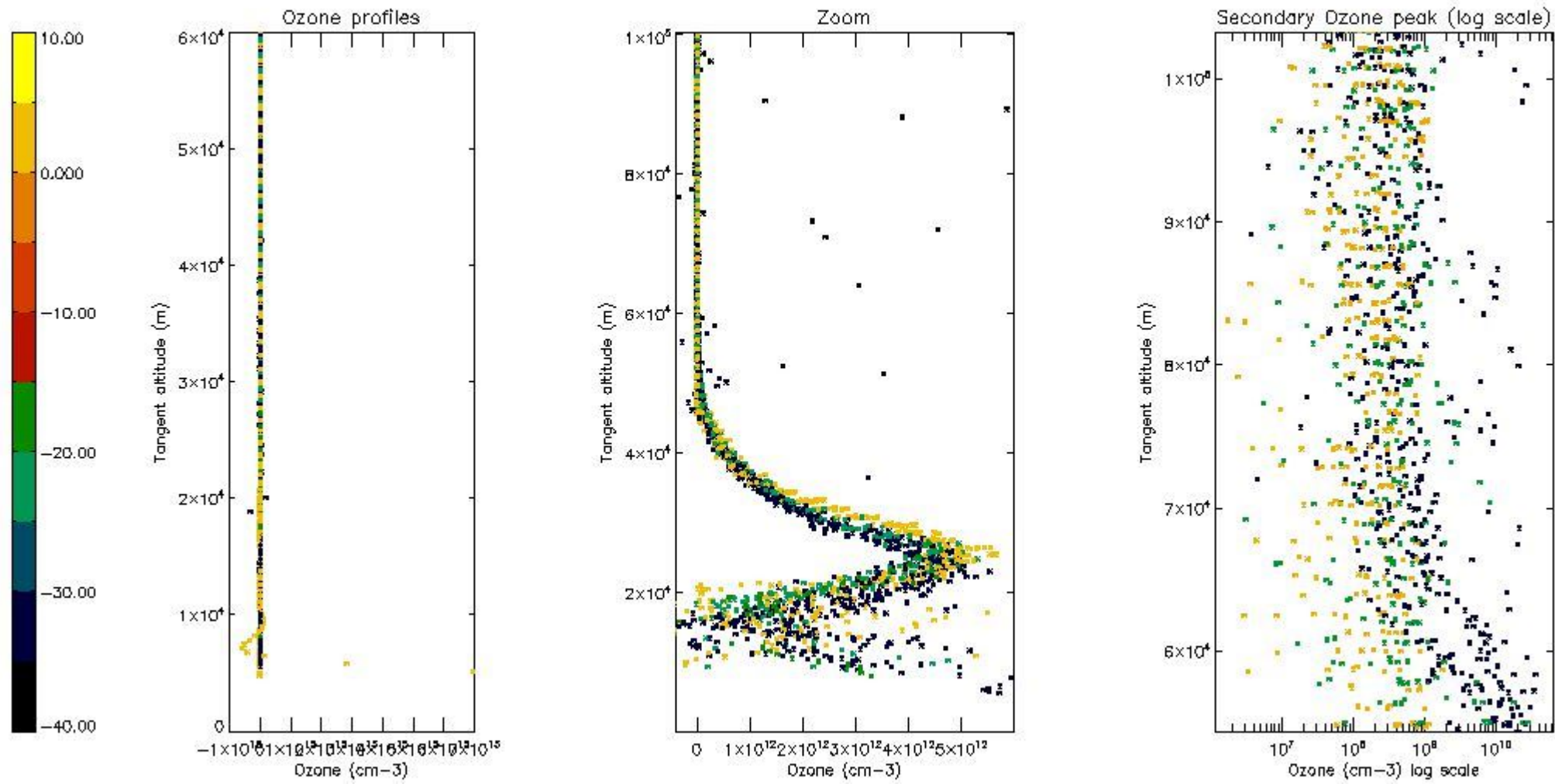
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	21
STD < 20	6

STD < 10	3
STD < 5	0

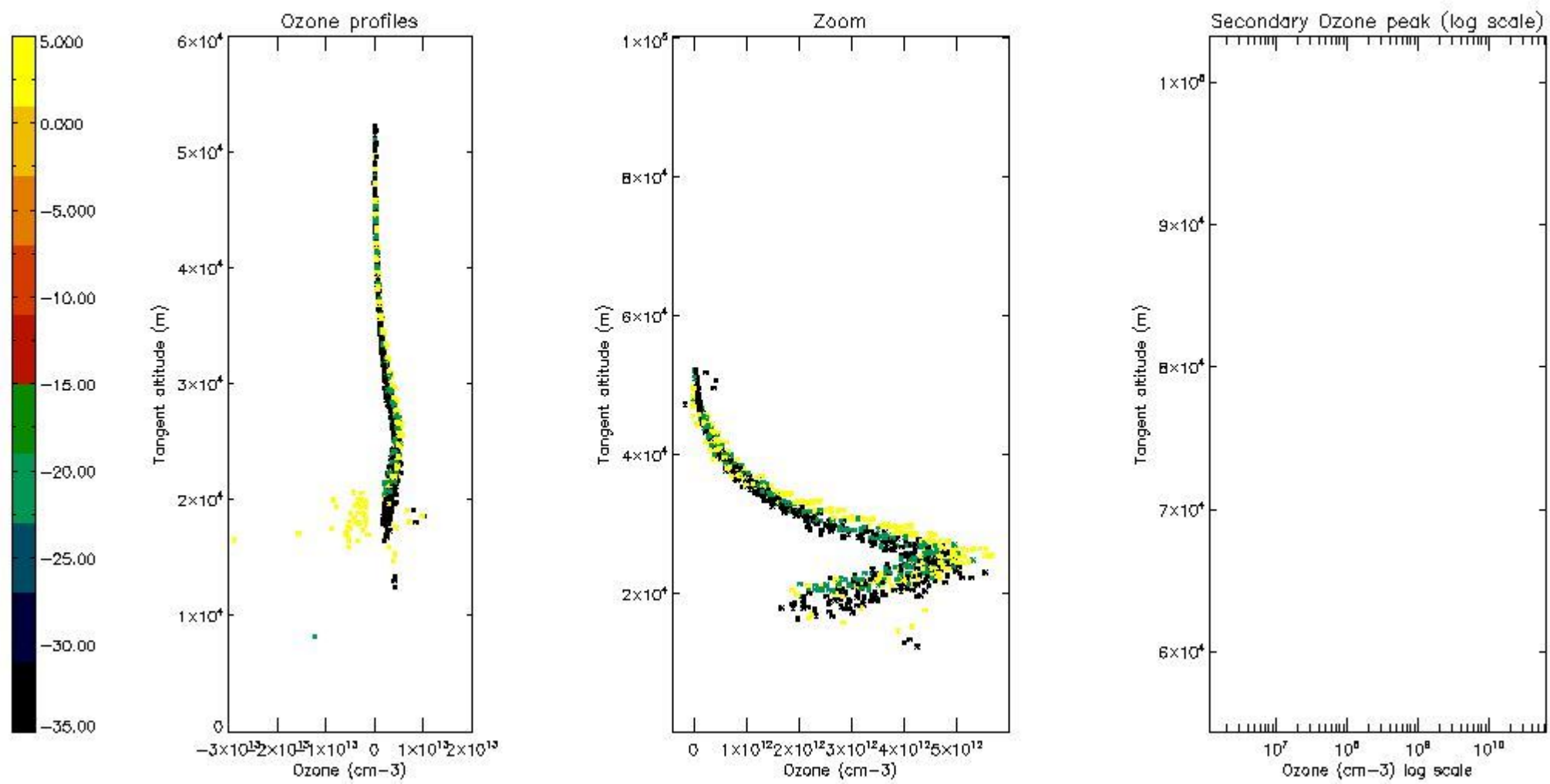
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



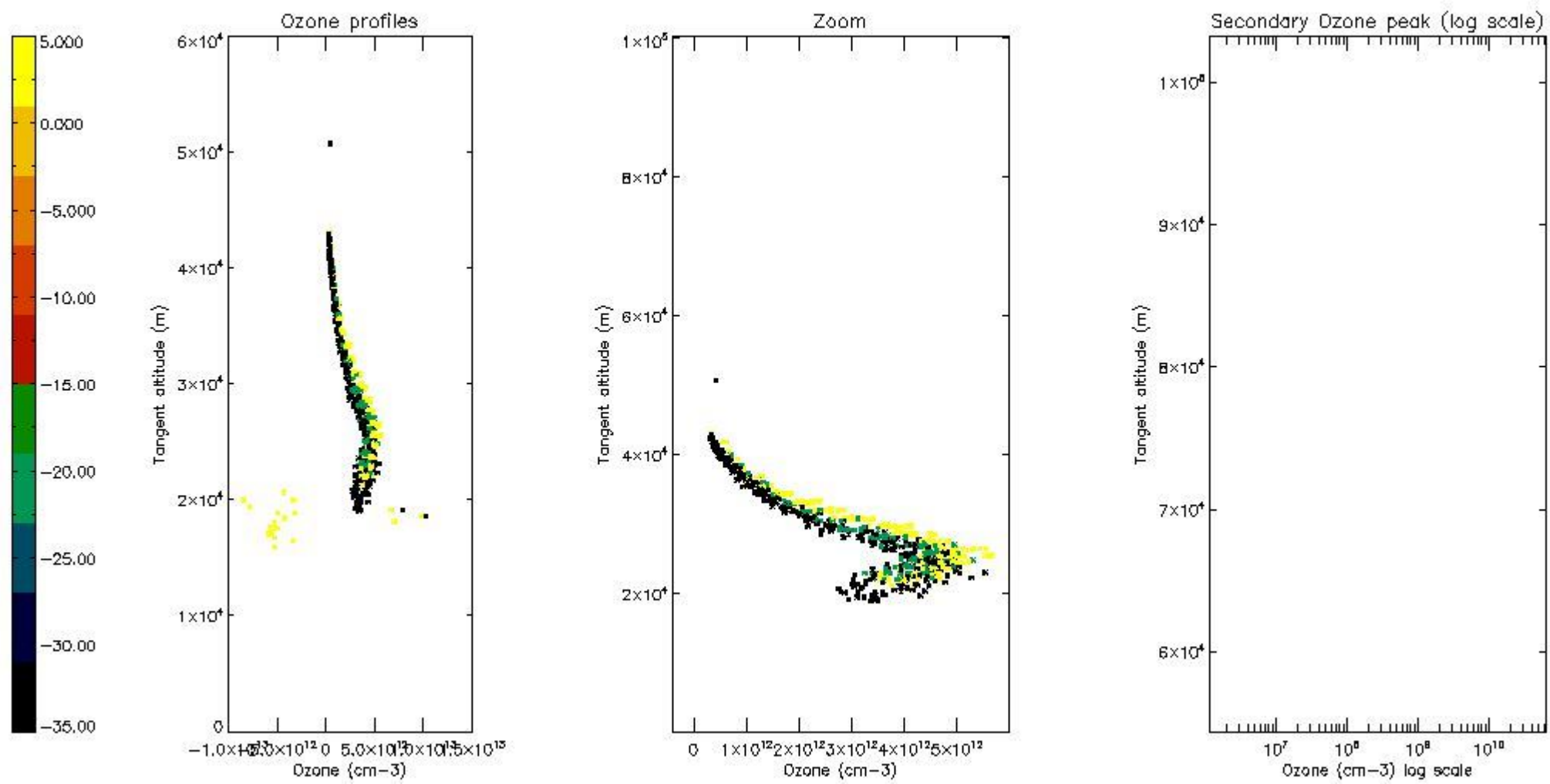
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



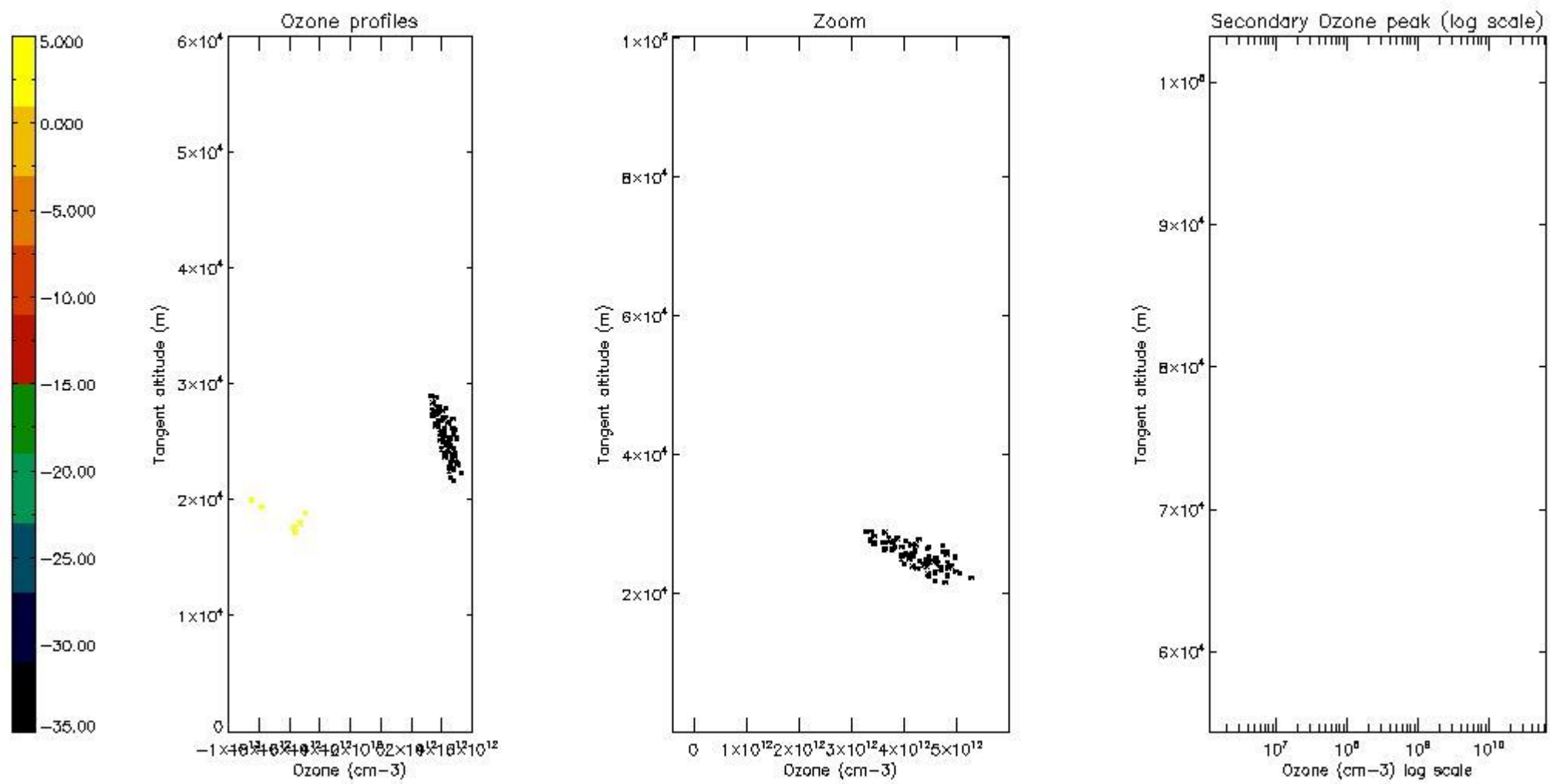
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



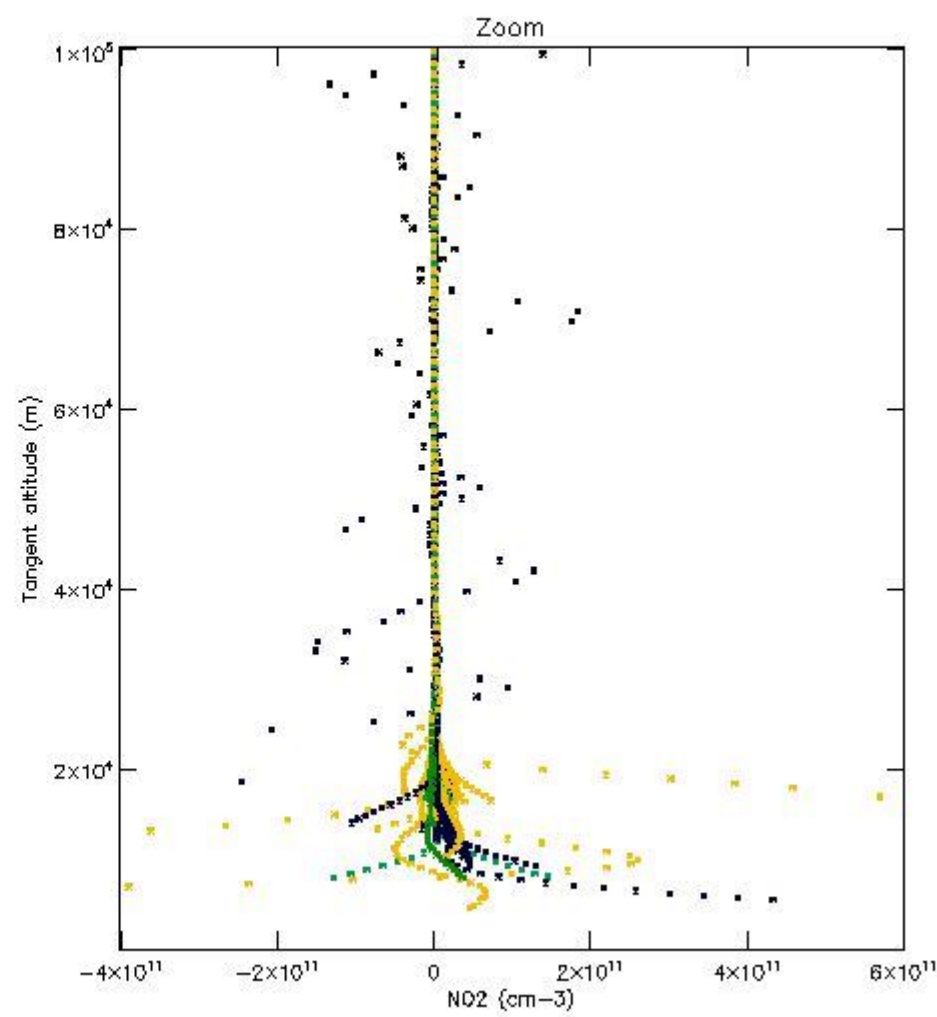
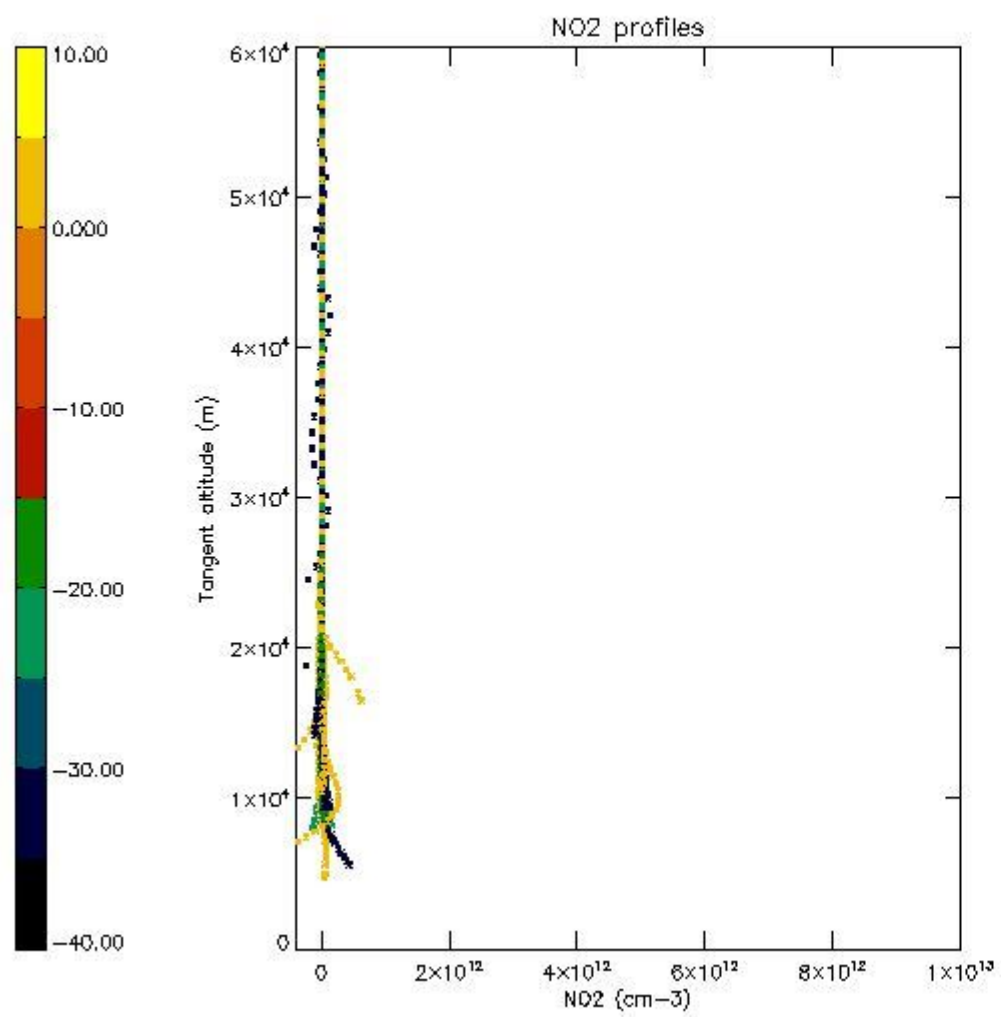
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



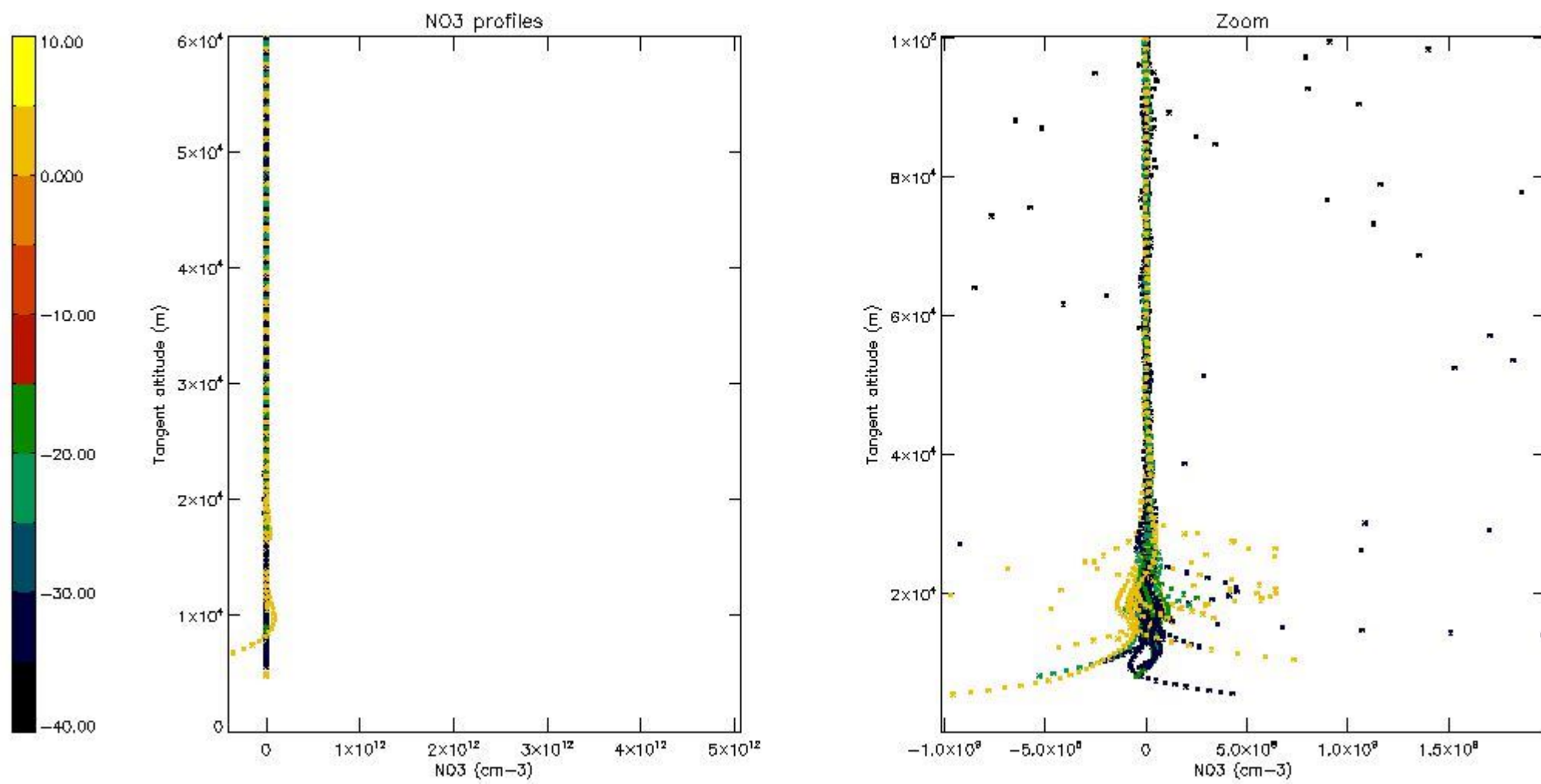
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



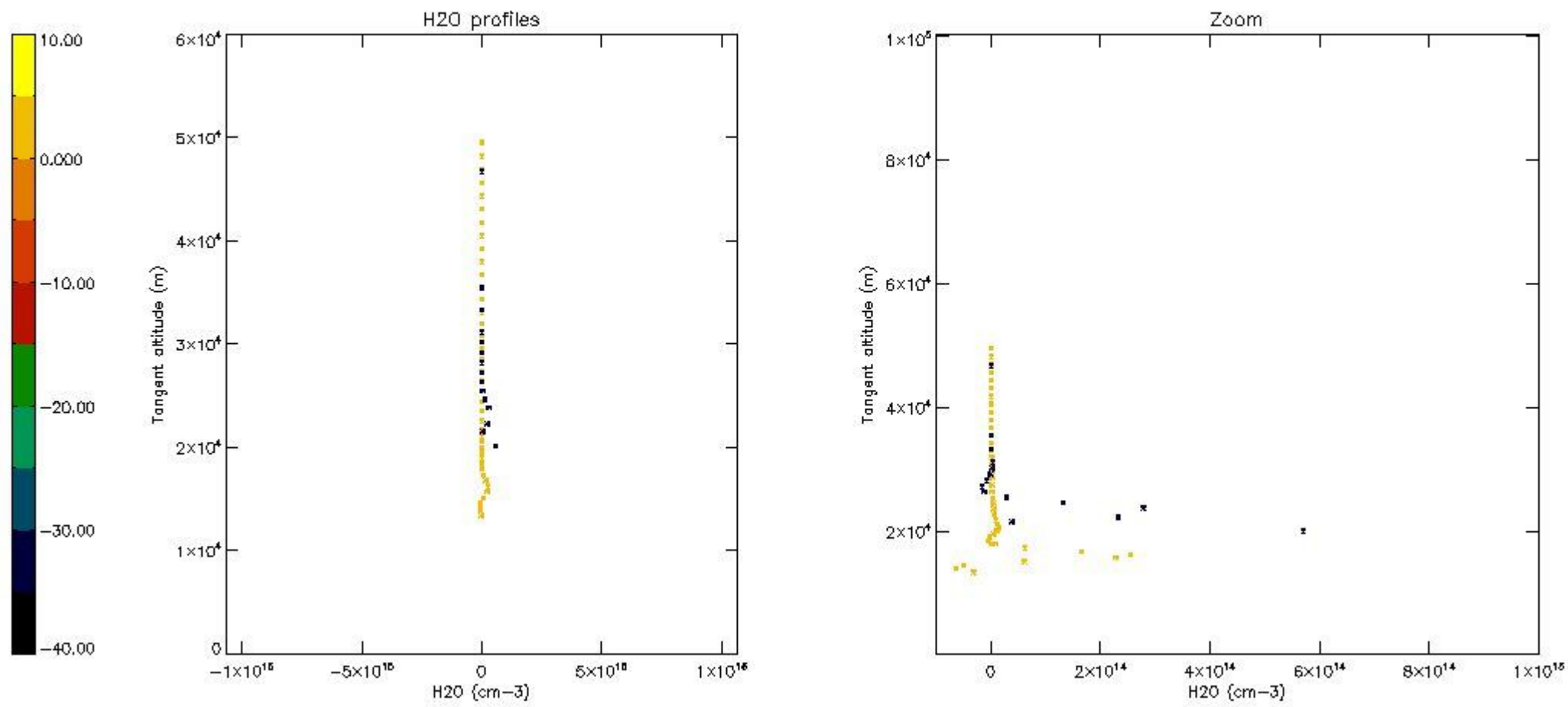
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	20-JUN-2006 00:05:50
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	20-JUN-2006 00:05:50
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	20-JUN-2006 00:05:50

GOMOS Level 2 Daily Report

SUMMARY

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[3. Level 2 Quality information per product](#)

[3.1 Plot of level 2 quality information per product \(time dependant\)](#)

[3.2 Plot of level 2 quality information per product \(world map\)](#)

[4. Level 1 Quality information per product \(stored on level 2 products\)](#)

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

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

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

[4.2 Plot of level 1 quality information per product \(world map\)](#)

[4.2.1 Plot of level 1 quality information per product \(world map\): ASCENDING](#)

[4.2.2 Plot of level 1 quality information per product \(world map\): DESCENDING](#)

[5. Ozone profiles based on quality statistics and other trace gas profiles](#)

[5.1 Ozone statistics based on quality of products](#)

[5.2 Plot ozone profiles for all STD \(dark without errors\)](#)

[5.3 Plot ozone profiles where STD < 20% \(dark without errors\)](#)

[5.4. Plot ozone profiles where STD < 10% \(dark without errors\)](#)

[5.5. Plot ozone profiles where STD < 5% \(dark without errors\)](#)

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

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

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

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

This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	24APR2013 00:10:39
Data source version	GOMOS/6.01
Start time of products	20-06-2006 (20JUN2006 00:00:00)
Stop time of products	21-06-2006 (21JUN2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	236
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

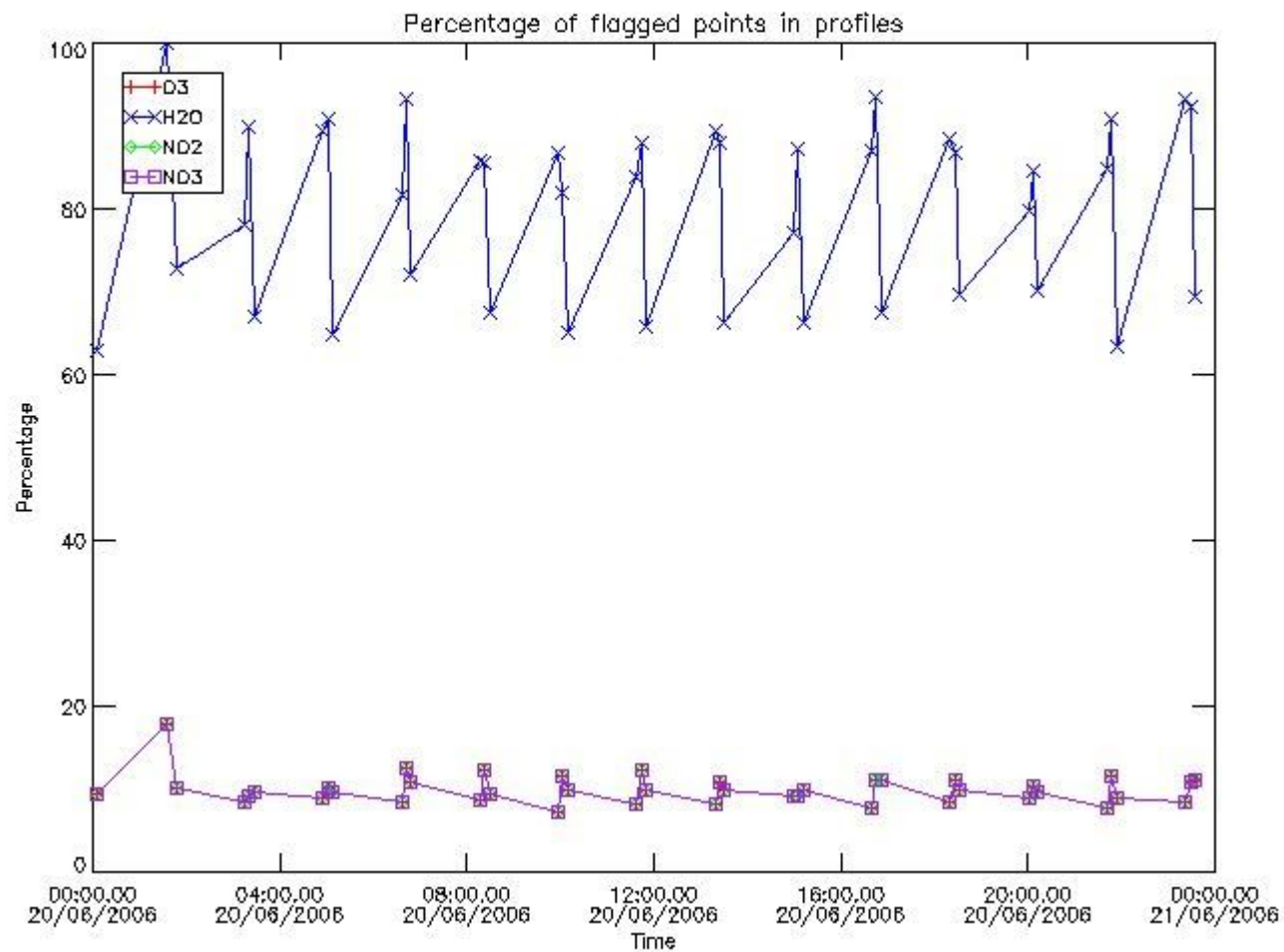
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060620_000550_000000552048_00403_22501_9324.N1	20-JUN-2006 00:05:50	Dark	54.500	63	Bet Gru	2.1500	2800.0	109	22501	No
2	GOM_NL__2PRFIN20060620_000753_000000482048_00403_22501_9325.N1	20-JUN-2006 00:07:53	Straylight	47.500	31	Alp Gru	1.7340	15200.	95	22501	No
3	GOM_NL__2PRFIN20060620_001121_000000422048_00403_22501_9326.N1	20-JUN-2006 00:11:21	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	22501	No
4	GOM_NL__2PRFIN20060620_002047_000000432048_00403_22501_9327.N1	20-JUN-2006 00:20:47	Twilight	43.000	38	20Eps Sgr	1.8360	11000.	86	22501	No
5	GOM_NL__2PRFIN20060620_002214_000000502048_00403_22501_9328.N1	20-JUN-2006 00:22:14	Twilight	50.000	116	19Del Sgr	2.7000	4100.0	100	22501	No
6	GOM_NL__2PRFIN20060620_003337_000000412048_00403_22501_9329.N1	20-JUN-2006 00:33:37	Bright	40.500	126	60Bet Oph	2.7700	4250.0	81	22501	No
7	GOM_NL__2PRFIN20060620_003605_000000412048_00403_22501_9330.N1	20-JUN-2006 00:36:05	Bright	40.500	59	55Alp Oph	2.0800	8900.0	81	22501	No
8	GOM_NL__2PRFIN20060620_004749_000000402048_00403_22501_9331.N1	20-JUN-2006 00:47:49	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	22501	No
9	GOM_NL__2PRFIN20060620_005755_000000452048_00403_22501_9332.N1	20-JUN-2006 00:57:55	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	22501	No
10	GOM_NL__2PRFIN20060620_010440_000000432048_00403_22501_9333.N1	20-JUN-2006 01:04:40	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	22501	No
11	GOM_NL__2PRFIN20060620_010607_000000452048_00403_22501_9334.N1	20-JUN-2006 01:06:07	Bright	44.500	68	18Alp Cas	2.2250	4500.0	89	22501	No
12	GOM_NL__2PRFIN20060620_011132_000000432048_00403_22501_9335.N1	20-JUN-2006 01:11:32	Bright	42.500	73	57Gam1And	2.2600	13100.	85	22501	No
13	GOM_NL__2PRFIN20060620_011356_000000622048_00403_22501_9336.N1	20-JUN-2006 01:13:56	Twilight	61.500	53	43Bet And	2.0480	3300.0	123	22501	No
14	GOM_NL__2PRFIN20060620_011736_000000542048_00403_22501_9337.N1	20-JUN-2006 01:17:36	Twilight	53.500	50	13Alp Ari	2.0070	4250.0	107	22501	No
15	GOM_NL__2PRFIN20060620_013409_000000542048_00403_22501_9338.N1	20-JUN-2006 01:34:09	Dark	54.000	52	16Bet Cet	2.0370	4500.0	108	22501	No
16	GOM_NL__2PRFIN20060620_014627_000000502048_00404_22502_9268.N1	20-JUN-2006 01:46:27	Dark	50.000	63	Bet Gru	2.1500	2800.0	100	22502	No
17	GOM_NL__2PRFIN20060620_014830_000000482048_00404_22502_9269.N1	20-JUN-2006 01:48:30	Straylight	48.000	31	Alp Gru	1.7340	15200.	96	22502	No
18	GOM_NL__2PRFIN20060620_015158_000000412048_00404_22502_9270.N1	20-JUN-2006 01:51:58	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	22502	No
19	GOM_NL__2PRFIN20060620_020123_000000522048_00404_22502_9271.N1	20-JUN-2006 02:01:23	Twilight	51.500	38	20Eps Sgr	1.8360	11000.	103	22502	No
20	GOM_NL__2PRFIN20060620_020251_000000482048_00404_22502_9272.N1	20-JUN-2006 02:02:51	Twilight	47.500	116	19Del Sgr	2.7000	4100.0	95	22502	No
21	GOM_NL__2PRFIN20060620_021413_000000412048_00404_22502_9273.N1	20-JUN-2006 02:14:13	Bright	41.000	126	60Bet Oph	2.7700	4250.0	82	22502	No
22	GOM_NL__2PRFIN20060620_021640_000000412048_00404_22502_9274.N1	20-JUN-2006 02:16:40	Bright	40.500	59	55Alp Oph	2.0800	8900.0	81	22502	No
23	GOM_NL__2PRFIN20060620_022825_000000362048_00404_22502_9275.N1	20-JUN-2006 02:28:25	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	22502	No
24	GOM_NL__2PRFIN20060620_023830_000000452048_00404_22502_9276.N1	20-JUN-2006 02:38:30	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	22502	No
25	GOM_NL__2PRFIN20060620_024515_000000442048_00404_22502_9277.N1	20-JUN-2006 02:45:15	Bright	43.500	74	11Bet Cas	2.2680	6600.0	87	22502	No
26	GOM_NL__2PRFIN20060620_024643_000000462048_00404_22502_9278.N1	20-JUN-2006 02:46:43	Bright	46.000	68	18Alp Cas	2.2250	4500.0	92	22502	No
27	GOM_NL__2PRFIN20060620_025208_000000432048_00404_22502_9279.N1	20-JUN-2006 02:52:08	Bright	42.500	73	57Gam1And	2.2600	13100.	85	22502	No
28	GOM_NL__2PRFIN20060620_025432_000000582048_00404_22502_9280.N1	20-JUN-2006 02:54:32	Twilight	58.000	53	43Bet And	2.0480	3300.0	116	22502	No
29	GOM_NL__2PRFIN20060620_025812_000000532048_00404_22502_9281.N1	20-JUN-2006 02:58:12	Twilight	53.000	50	13Alp Ari	2.0070	4250.0	106	22502	No
30	GOM_NL__2PRFIN20060620_031446_000000602048_00404_22502_9282.N1	20-JUN-2006 03:14:46	Dark	60.000	52	16Bet Cet	2.0370	4500.0	120	22502	No
31	GOM_NL__2PRFIN20060620_032041_000000552048_00404_22502_9283.N1	20-JUN-2006 03:20:41	Dark	55.000	84	Alp Phe	2.3970	4500.0	110	22502	No
32	GOM_NL__2PRFIN20060620_032704_000000542048_00405_22503_9268.N1	20-JUN-2006 03:27:04	Dark	53.500	63	Bet Gru	2.1500	2800.0	107	22503	No
33	GOM_NL__2PRFIN20060620_032907_000000482048_00405_22503_9269.N1	20-JUN-2006 03:29:07	Straylight	48.000	31	Alp Gru	1.7340	15200.	96	22503	No
34	GOM_NL__2PRFIN20060620_033234_000000422048_00405_22503_9270.N1	20-JUN-2006 03:32:34	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	22503	No
35	GOM_NL__2PRFIN20060620_034200_000000492048_00405_22503_9271.N1	20-JUN-2006 03:42:00	Twilight	48.500	38	20Eps Sgr	1.8360	11000.	97	22503	No
36	GOM_NL__2PRFIN20060620_034327_000000482048_00405_22503_9272.N1	20-JUN-2006 03:43:27	Twilight	47.500	116	19Del Sgr	2.7000	4100.0	95	22503	No
37	GOM_NL__2PRFIN20060620_035449_000000412048_00405_22503_9273.N1	20-JUN-2006 03:54:49	Bright	41.000	126	60Bet Oph	2.7700	4250.0	82	22503	No
38	GOM_NL__2PRFIN20060620_035716_000000402048_00405_22503_9274.N1	20-JUN-2006 03:57:16	Bright	39.500	59	55Alp Oph	2.0800	8900.0	79	22503	No
39	GOM_NL__2PRFIN20060620_040900_000000382048_00405_22503_9275.N1	20-JUN-2006 04:09:00	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	22503	No
40	GOM_NL__2PRFIN20060620_041906_000000442048_00405_22503_9276.N1	20-JUN-2006 04:19:06	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	22503	No
41	GOM_NL__2PRFIN20060620_042551_000000422048_00405_22503_9277.N1	20-JUN-2006 04:25:51	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	22503	No
42	GOM_NL__2PRFIN20060620_042719_000000462048_00405_22503_9278.N1	20-JUN-2006 04:27:19	Bright	46.000	68	18Alp Cas	2.2250	4500.0	92	22503	No

220	GOM_NL__2PRFIN20060620_222123_000000412048_00416_22514_9294.N1	20-JUN-2006 22:21:23	Bright	40.500	126	60Bet Oph	2.7700	4250.0	81	22514	No
221	GOM_NL__2PRFIN20060620_222349_000000402048_00416_22514_9295.N1	20-JUN-2006 22:23:49	Bright	40.000	59	55Alp Oph	2.0800	8900.0	80	22514	No
222	GOM_NL__2PRFIN20060620_223532_000000392048_00416_22514_9296.N1	20-JUN-2006 22:35:32	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	22514	No
223	GOM_NL__2PRFIN20060620_224534_000000452048_00416_22514_9297.N1	20-JUN-2006 22:45:34	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	22514	No
224	GOM_NL__2PRFIN20060620_225222_000000442048_00416_22514_9298.N1	20-JUN-2006 22:52:22	Bright	43.500	74	11Bet Cas	2.2680	6600.0	87	22514	No
225	GOM_NL__2PRFIN20060620_225351_000000442048_00416_22514_9299.N1	20-JUN-2006 22:53:51	Bright	43.500	68	18Alp Cas	2.2250	4500.0	87	22514	No
226	GOM_NL__2PRFIN20060620_225920_000000422048_00416_22514_9300.N1	20-JUN-2006 22:59:20	Bright	42.000	73	57Gam1And	2.2600	13100.	84	22514	No
227	GOM_NL__2PRFIN20060620_230144_000000562048_00416_22514_9301.N1	20-JUN-2006 23:01:44	Twilight	56.000	53	43Bet And	2.0480	3300.0	112	22514	No
228	GOM_NL__2PRFIN20060620_230526_000000572048_00416_22514_9302.N1	20-JUN-2006 23:05:26	Twilight	56.500	50	13Alp Ari	2.0070	4250.0	113	22514	No
229	GOM_NL__2PRFIN20060620_232212_000000612048_00416_22514_9303.N1	20-JUN-2006 23:22:12	Dark	60.500	52	16Bet Cet	2.0370	4500.0	121	22514	No
230	GOM_NL__2PRFIN20060620_232803_000000472048_00416_22514_9304.N1	20-JUN-2006 23:28:03	Dark	46.500	84	Alp Phe	2.3970	4500.0	93	22514	No
231	GOM_NL__2PRFIN20060620_233427_000000512048_00417_22515_9288.N1	20-JUN-2006 23:34:27	Dark	51.000	63	Bet Gru	2.1500	2800.0	102	22515	No
232	GOM_NL__2PRFIN20060620_233630_000000492048_00417_22515_9289.N1	20-JUN-2006 23:36:30	Straylight	49.000	31	Alp Gru	1.7340	15200.	98	22515	No
233	GOM_NL__2PRFIN20060620_233953_000000422048_00417_22515_9290.N1	20-JUN-2006 23:39:53	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	22515	No
234	GOM_NL__2PRFIN20060620_234915_000000462048_00417_22515_9291.N1	20-JUN-2006 23:49:15	Twilight	46.000	38	20Eps Sgr	1.8360	11000.	92	22515	No
235	GOM_NL__2PRFIN20060620_235042_000000482048_00417_22515_9292.N1	20-JUN-2006 23:50:42	Twilight	47.500	116	19Del Sgr	2.7000	4100.0	95	22515	No
236	GOM_NL__2PRFIN20060620_235159_000000482048_00417_22515_9293.N1	20-JUN-2006 23:51:59	Bright	48.000	137	22Lam Sgr	2.8240	4400.0	96	22515	No

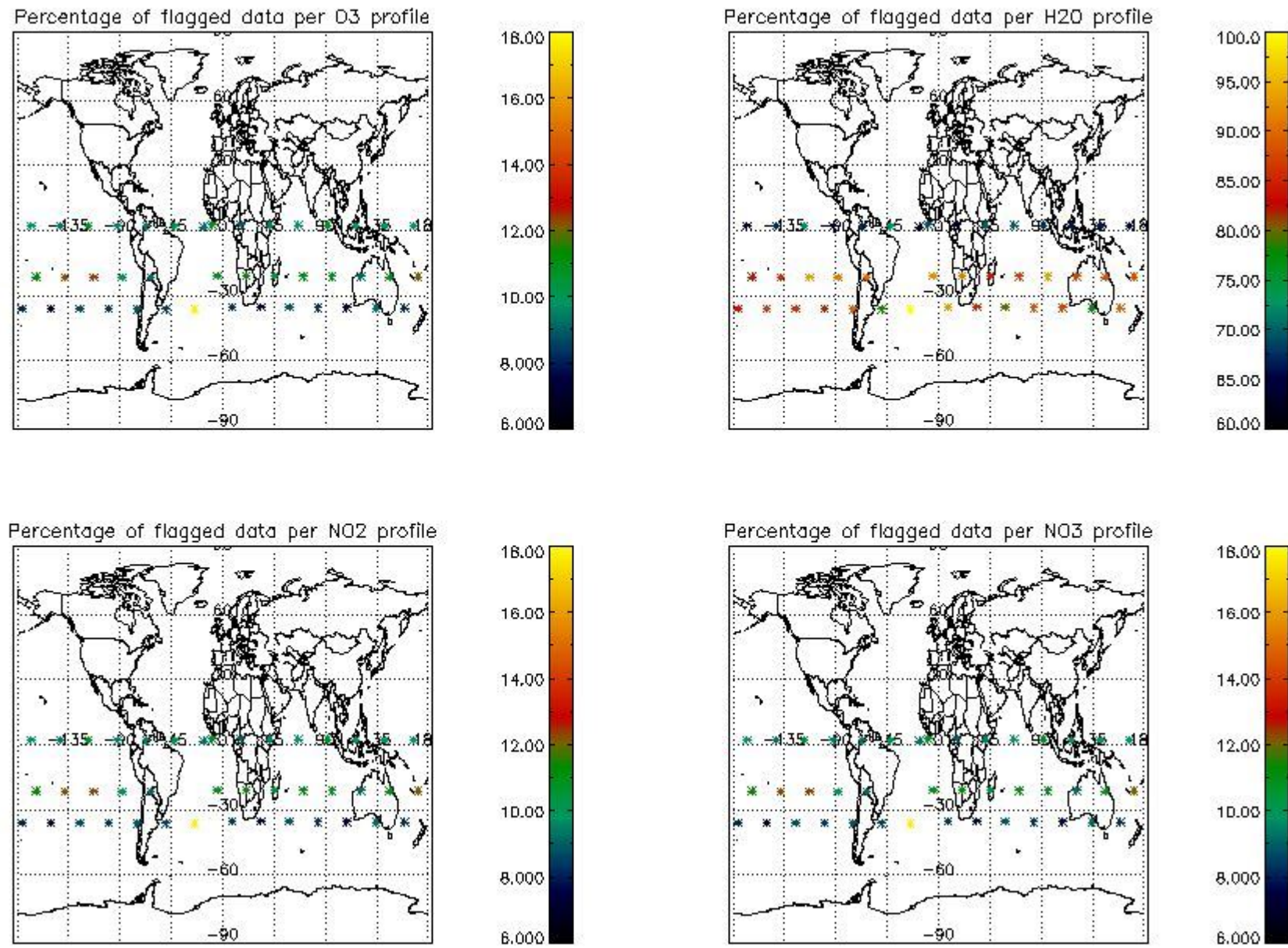
3. Quality information per product

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)

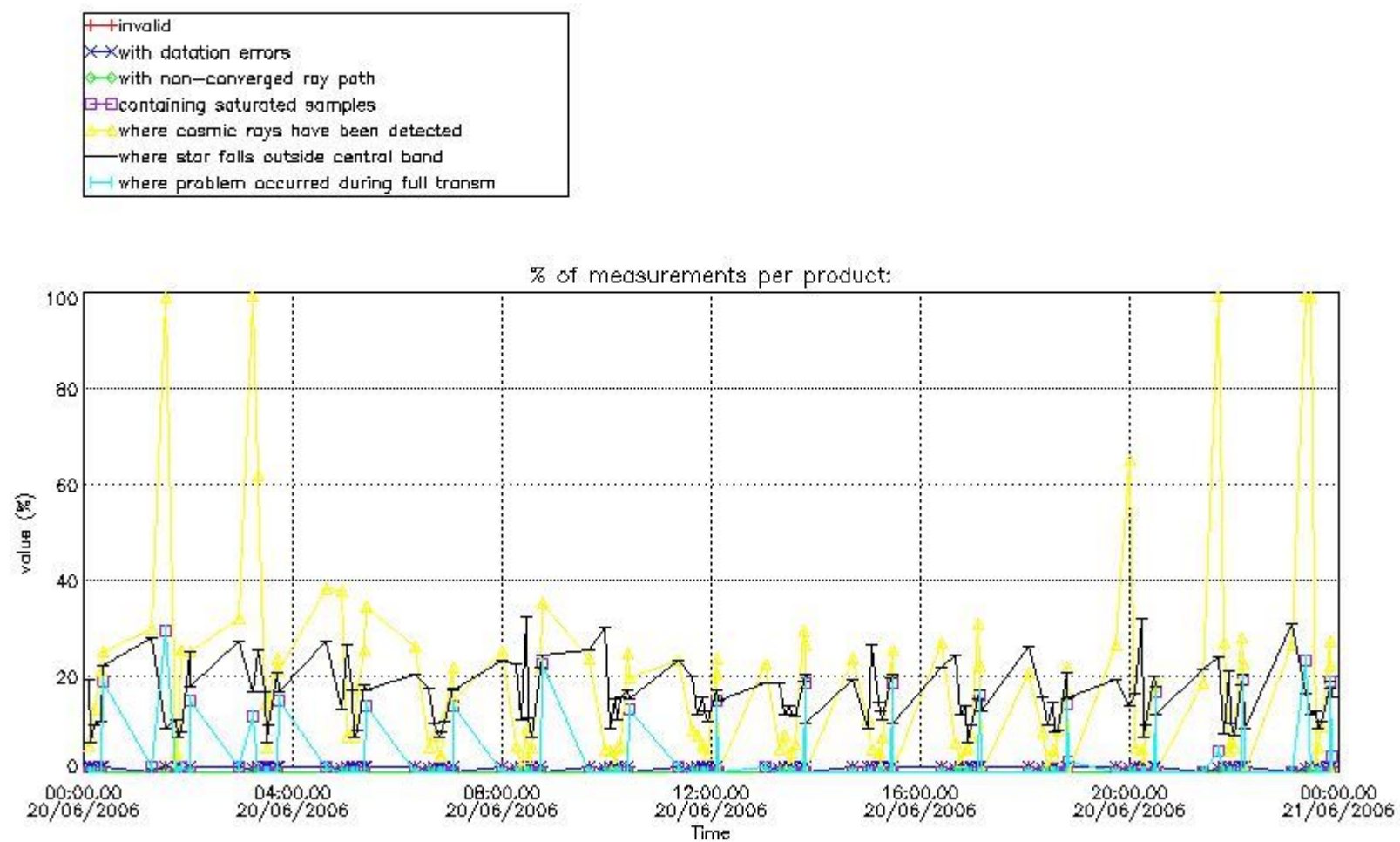


4. Level 1 quality information per product

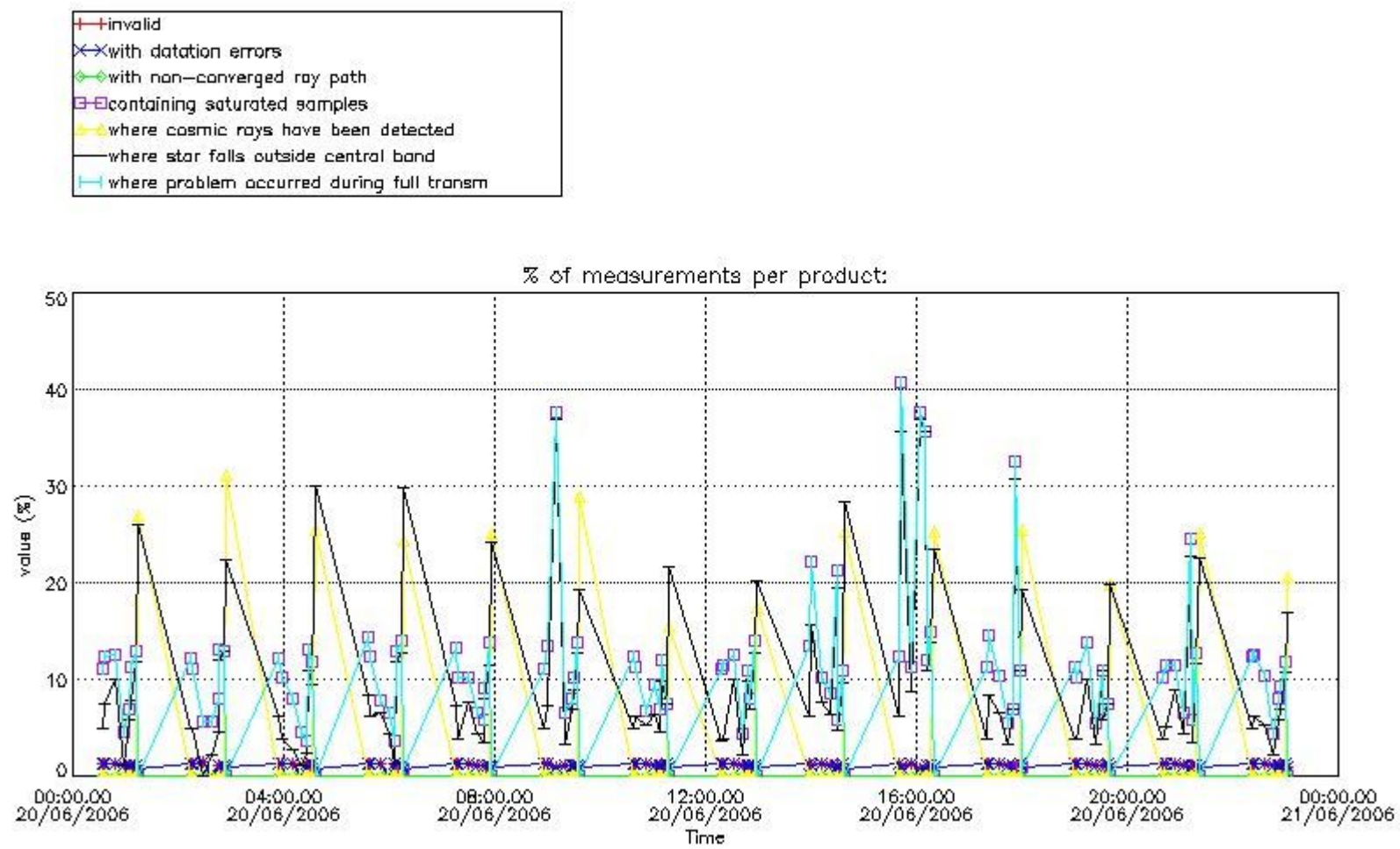
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

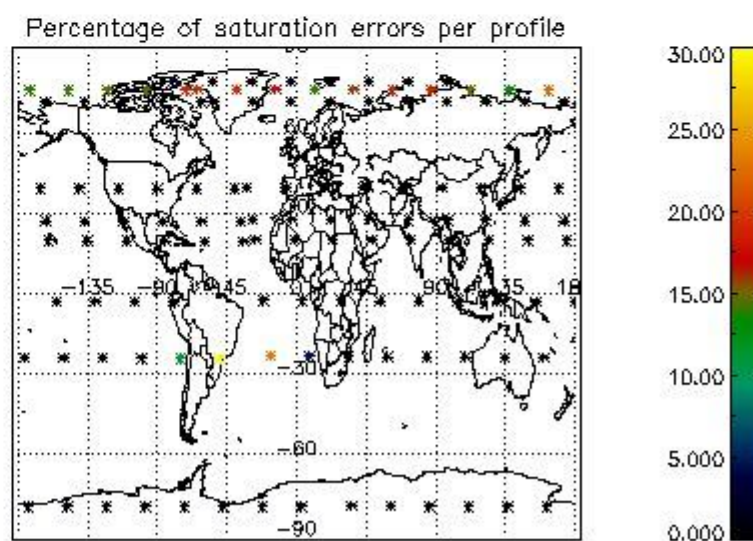
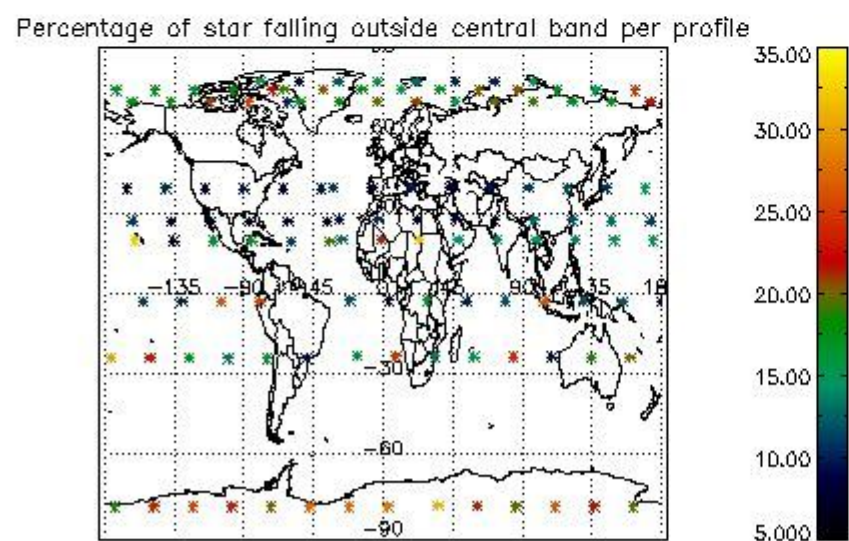
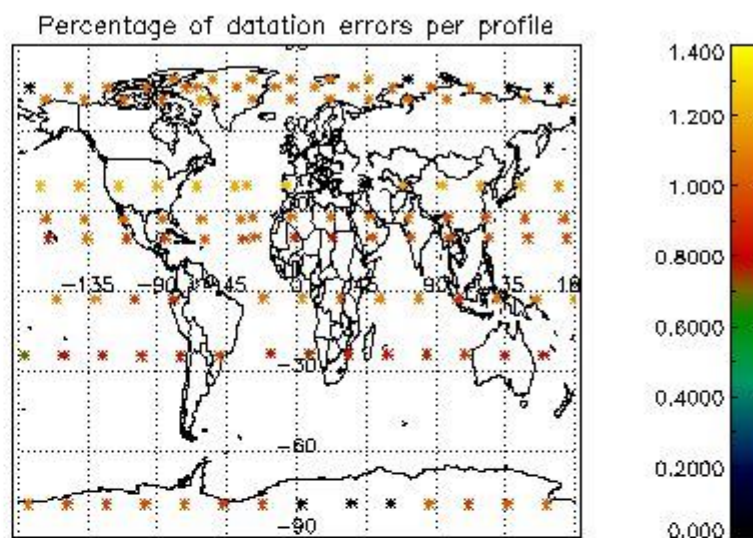
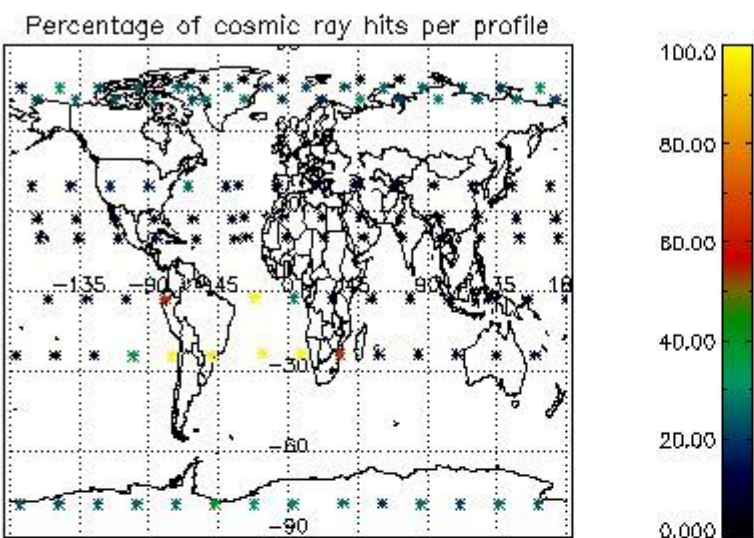


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



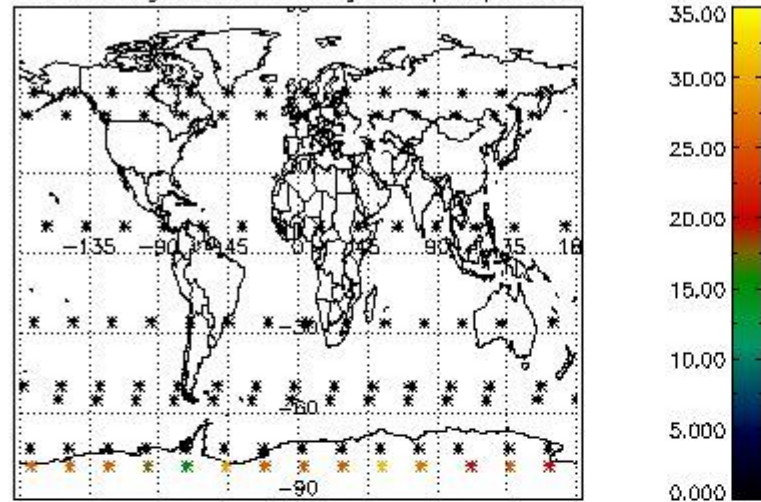
4.2 Plot quality information per product coming from level 1b processing (world map)

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

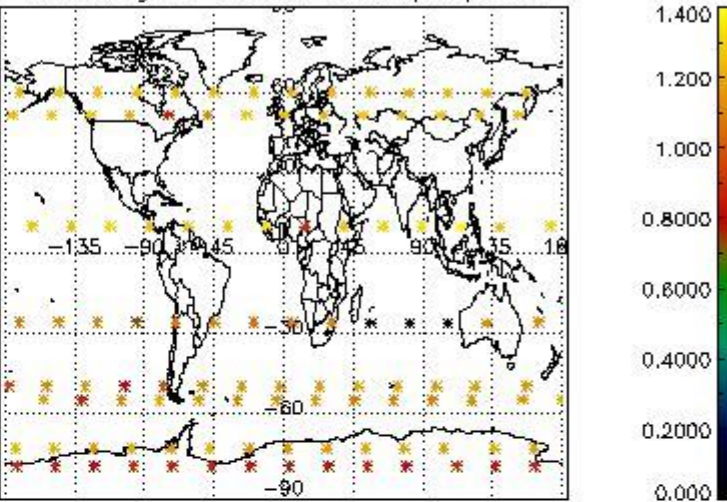


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

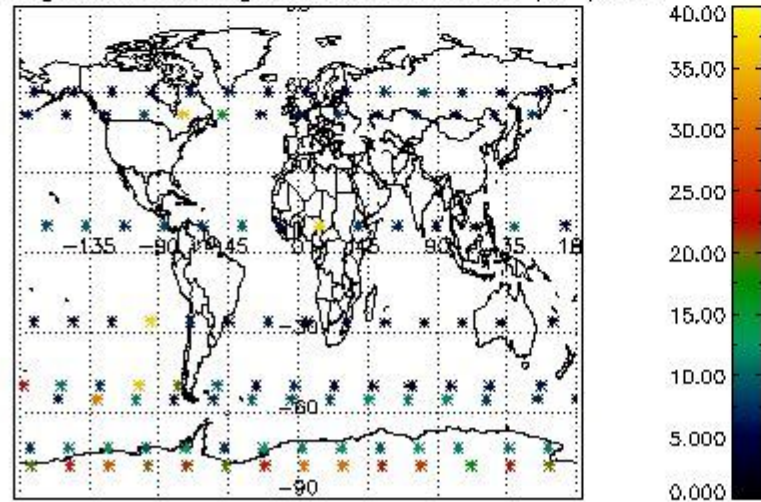
Percentage of cosmic ray hits per profile



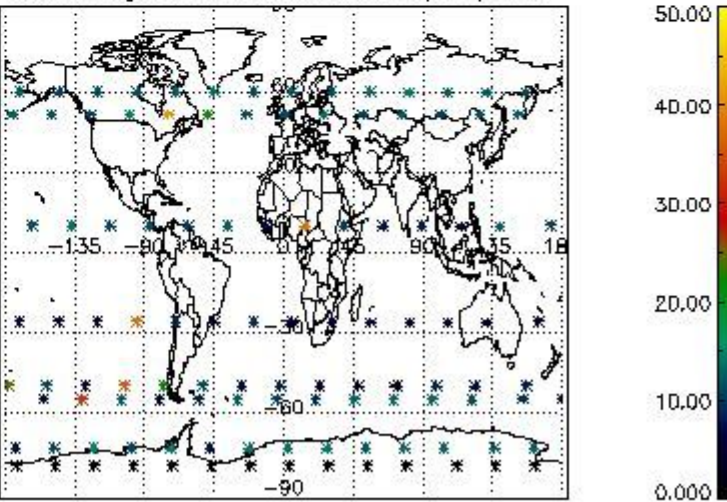
Percentage of datation errors per profile



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

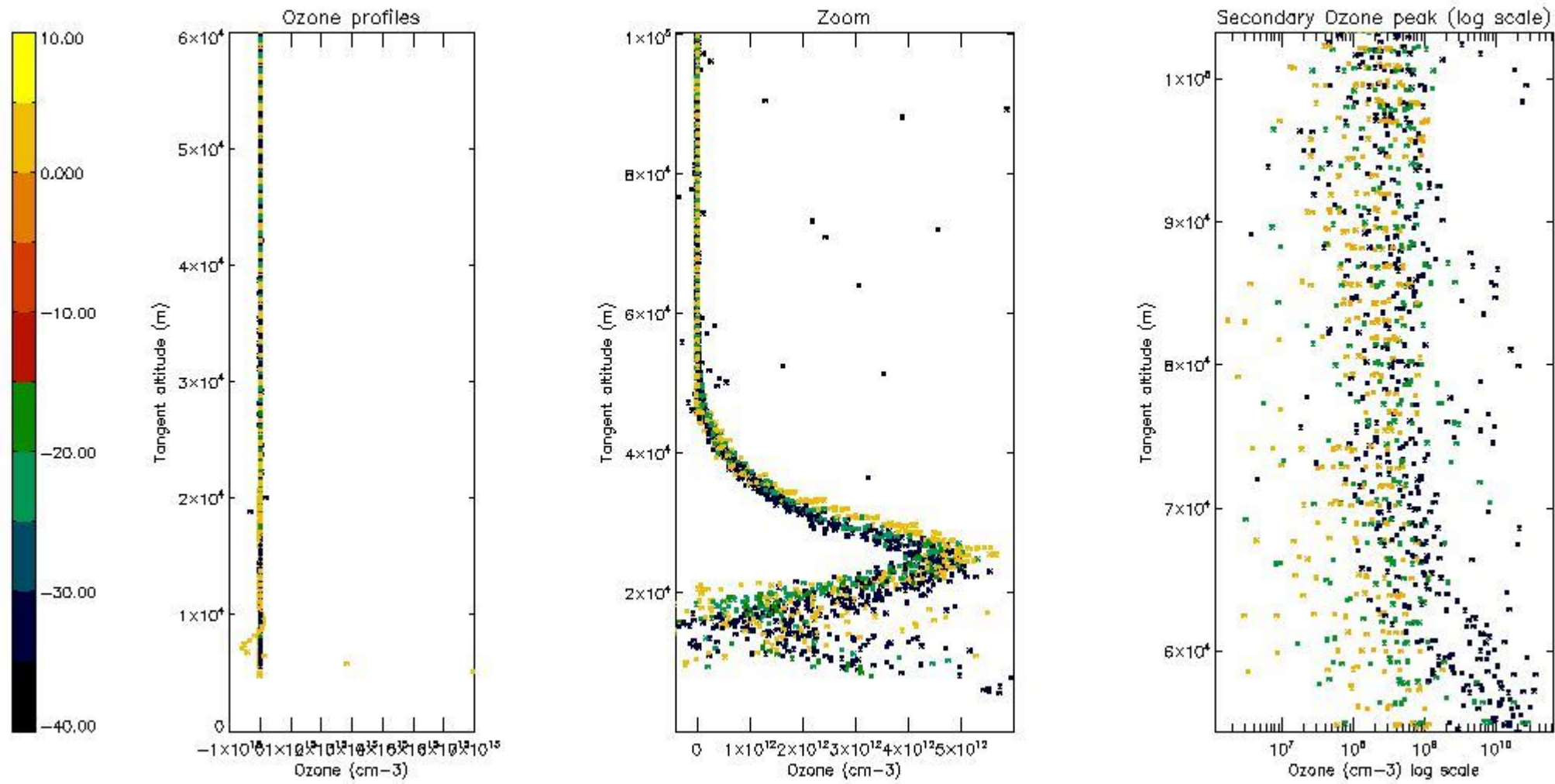
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	21
STD < 20	6

STD < 10	3
STD < 5	0

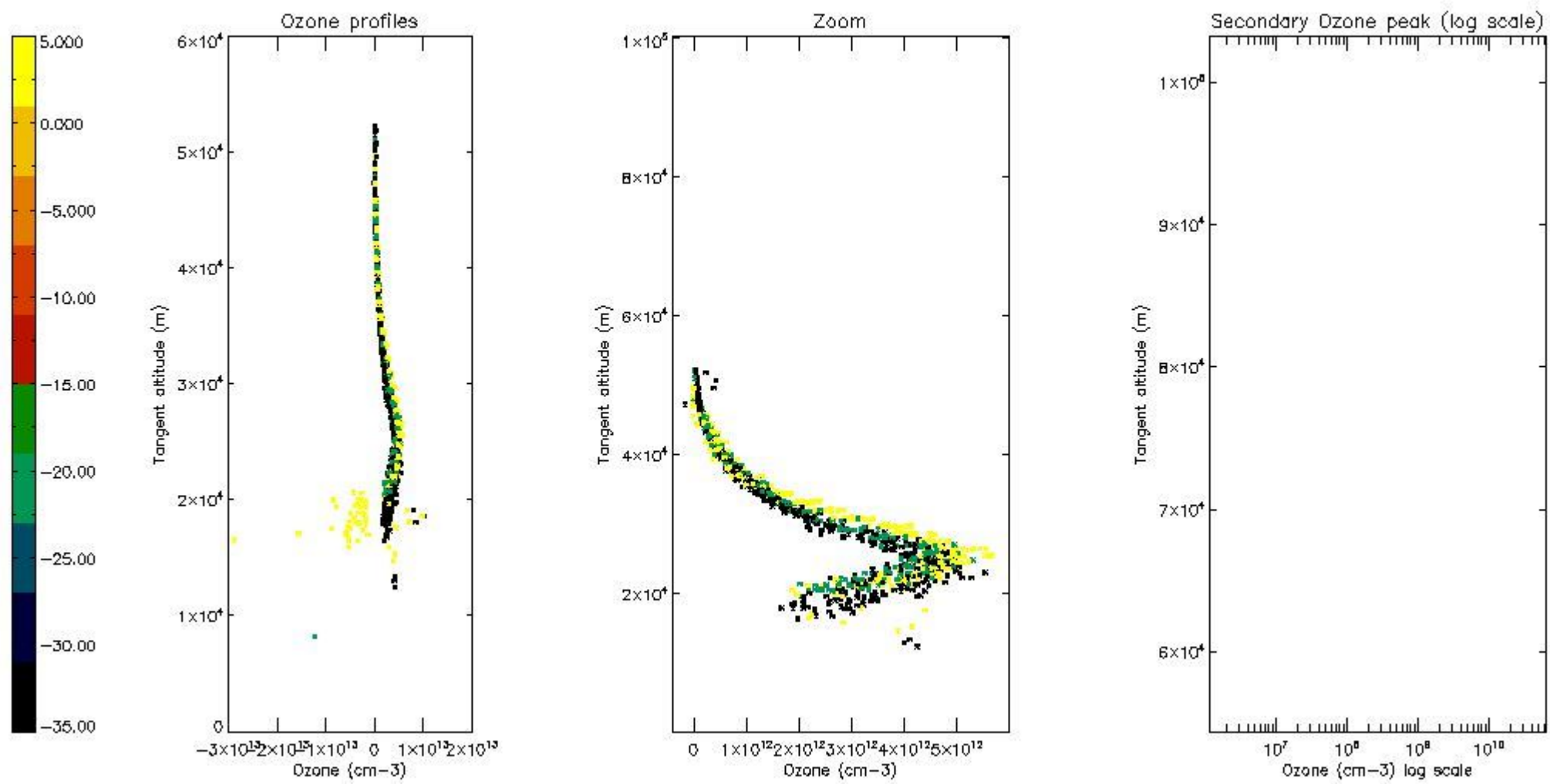
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



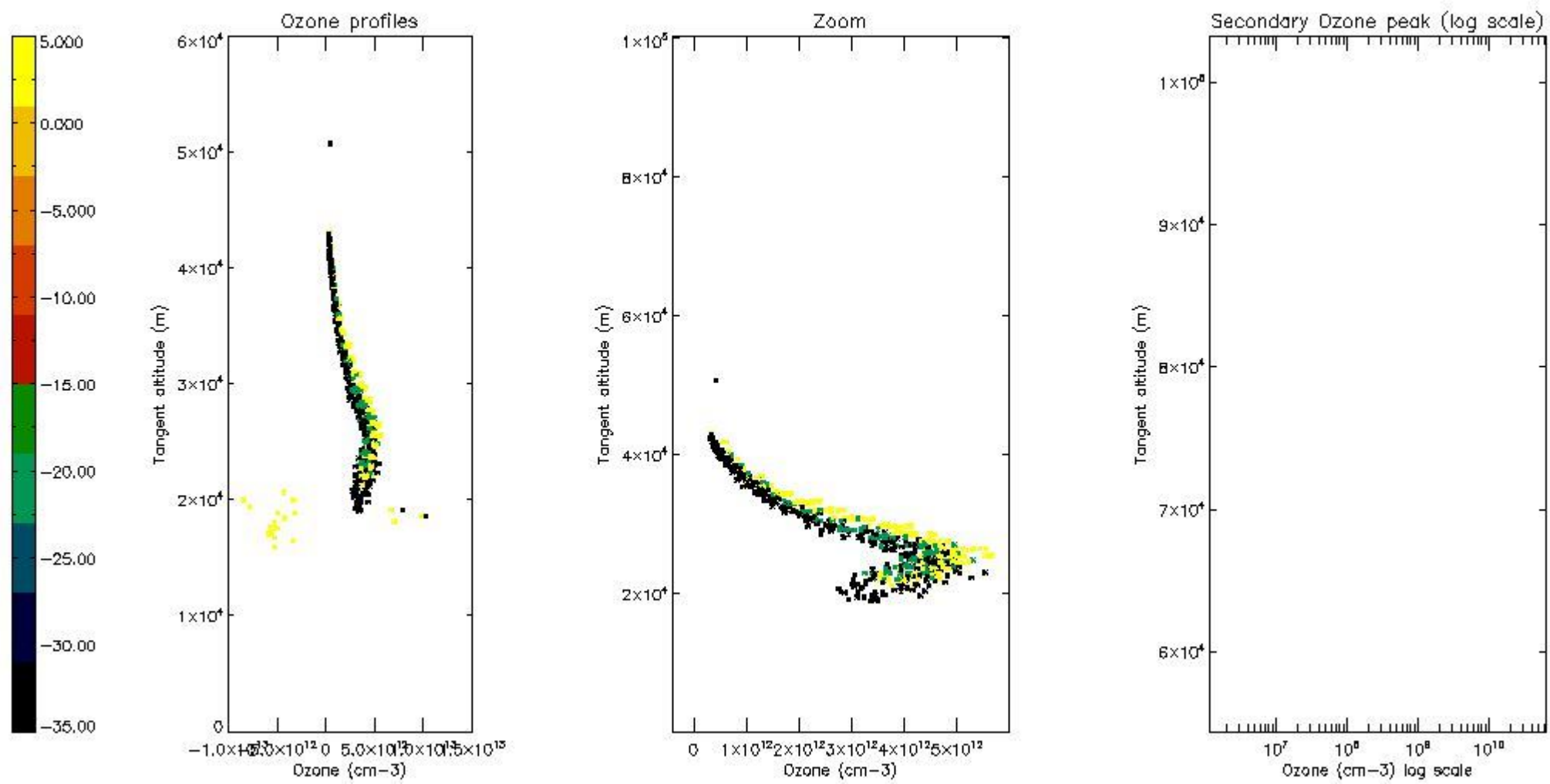
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



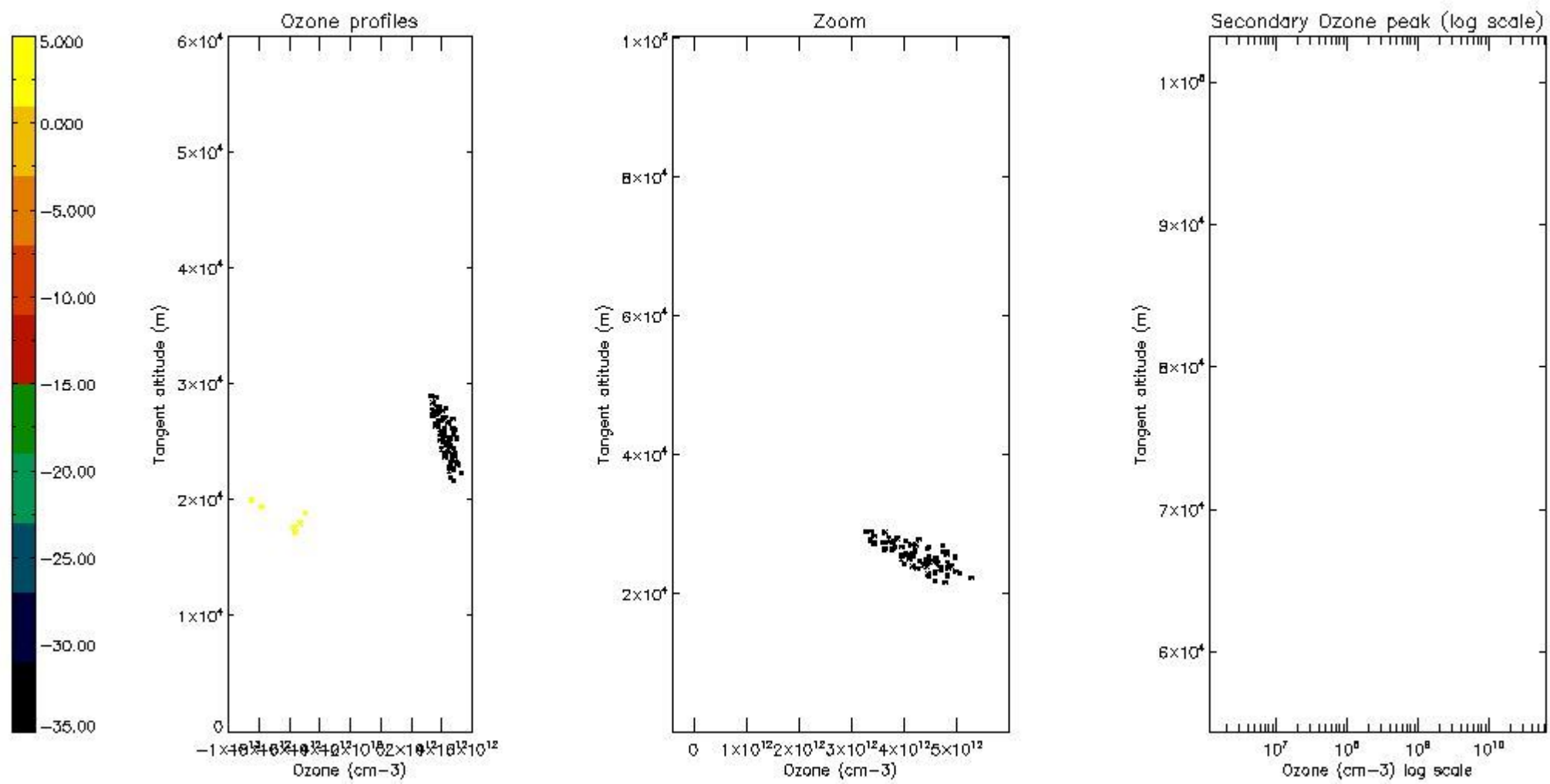
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



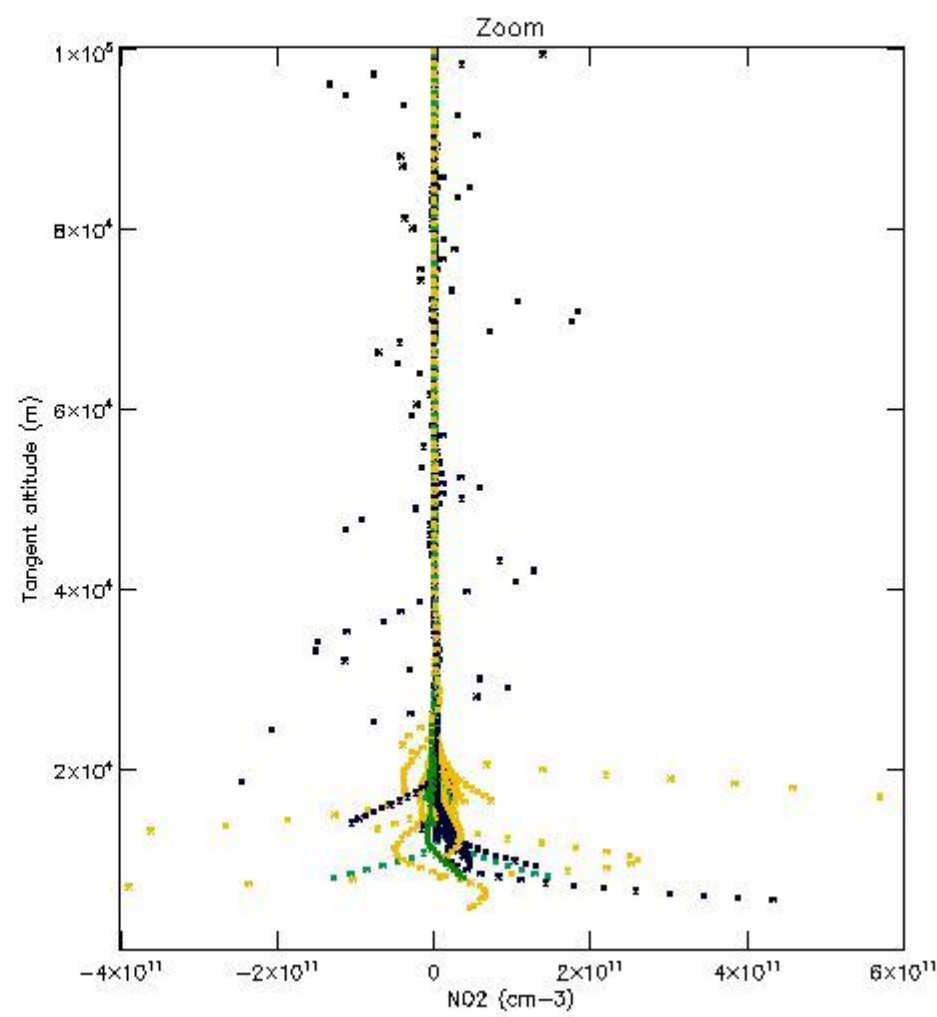
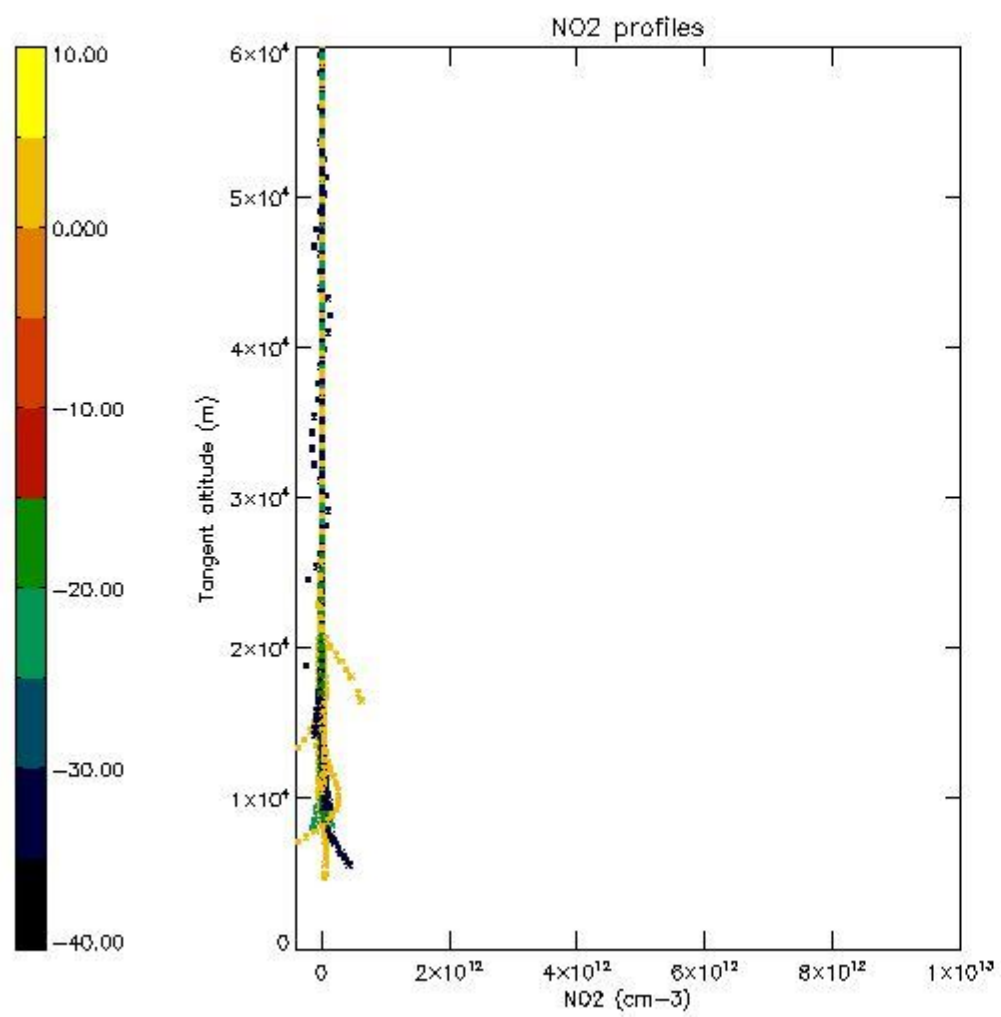
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



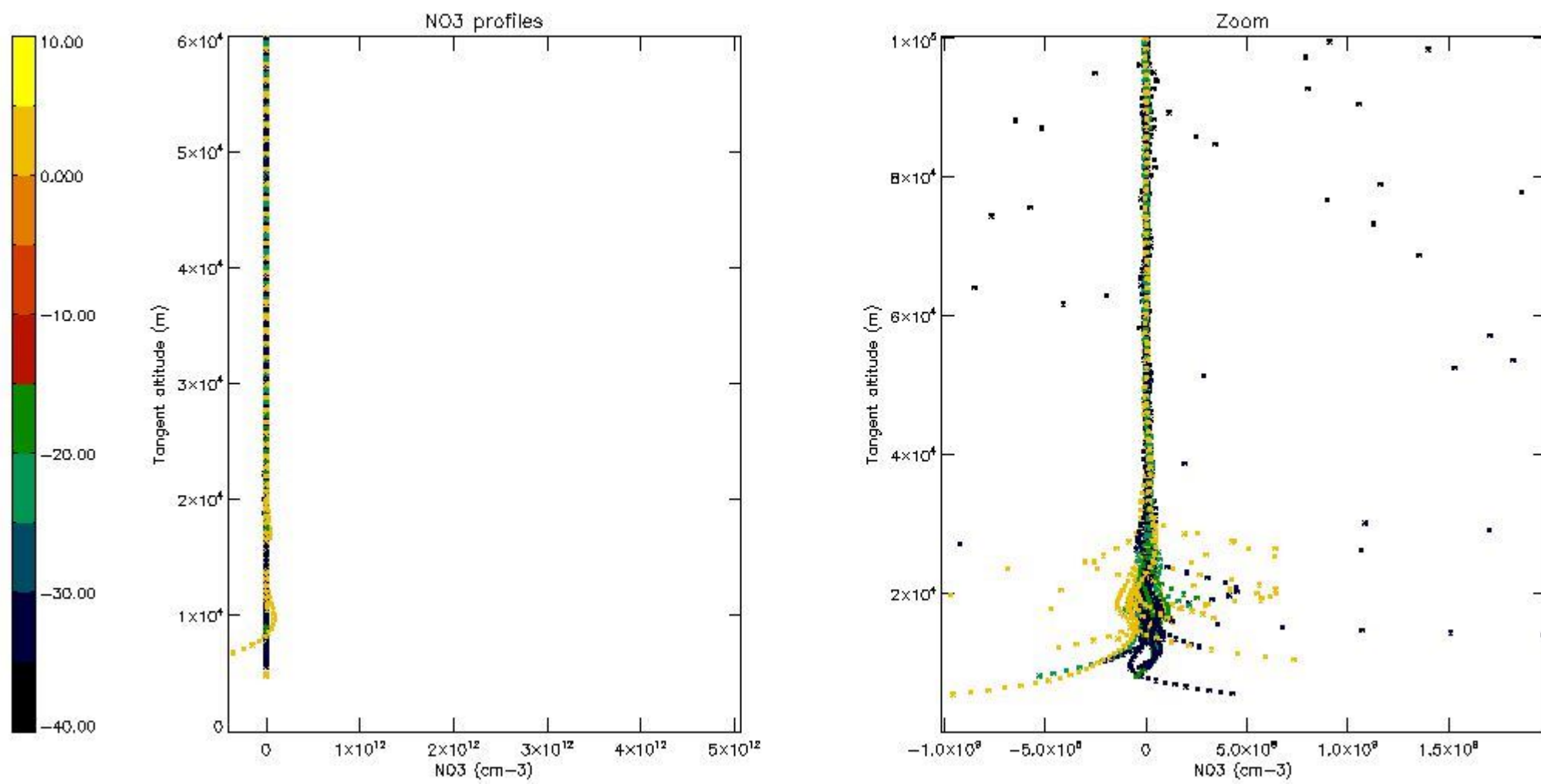
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



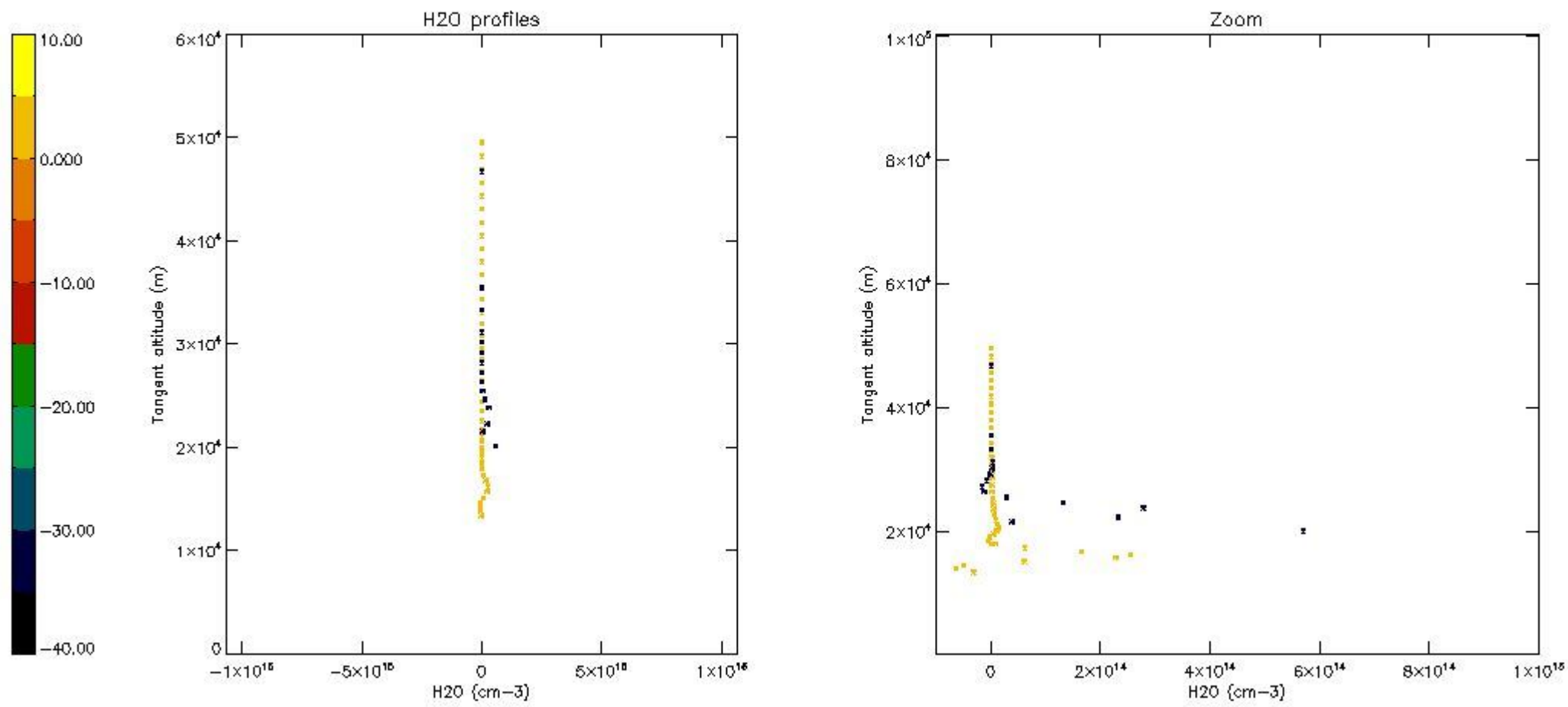
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

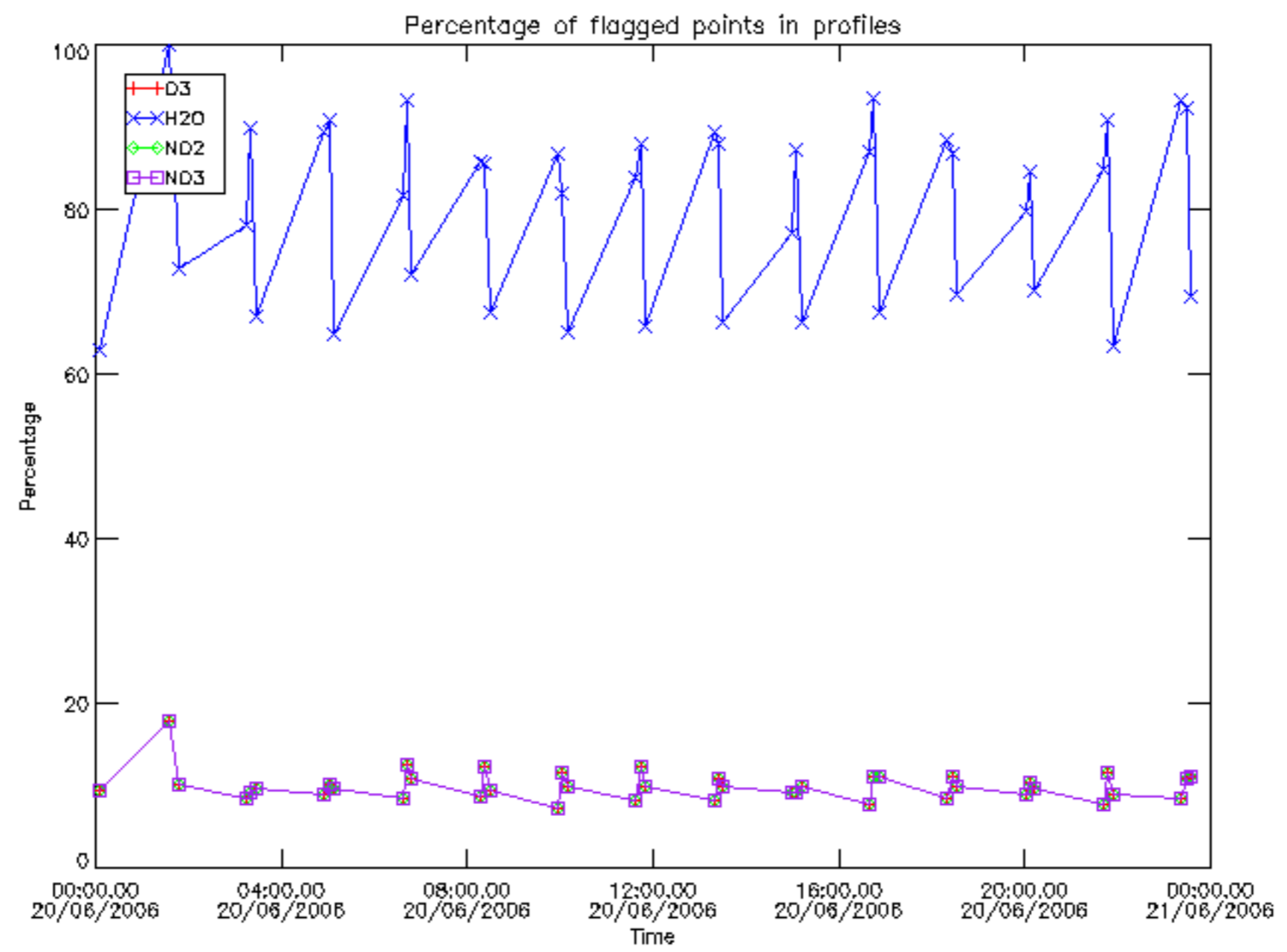
The colorbar represents the latitude.



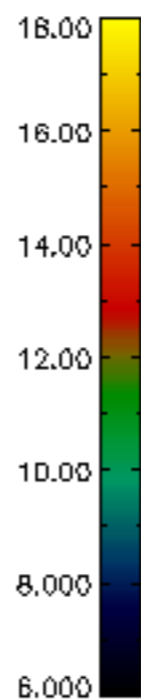
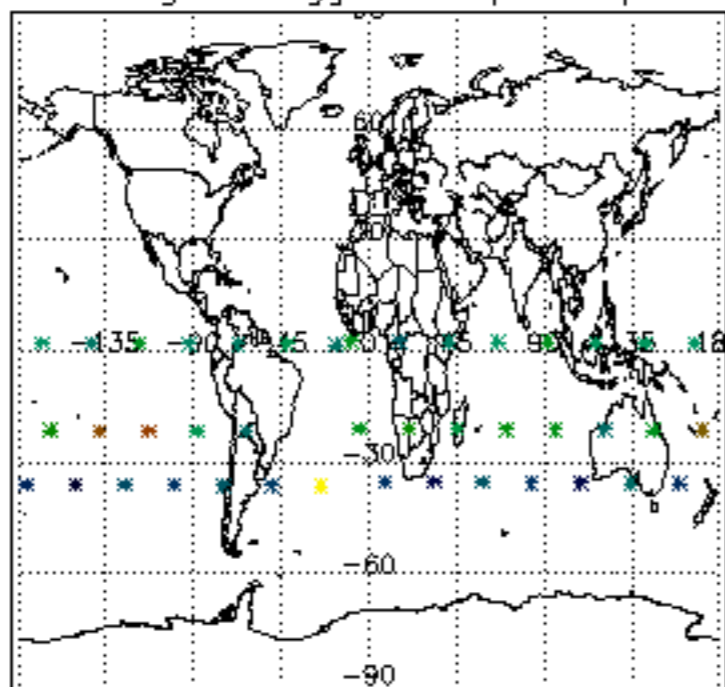
6. Auxiliary Data Files used for the production reported in section 2

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

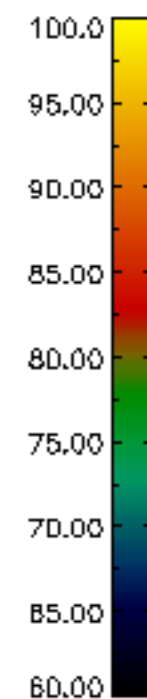
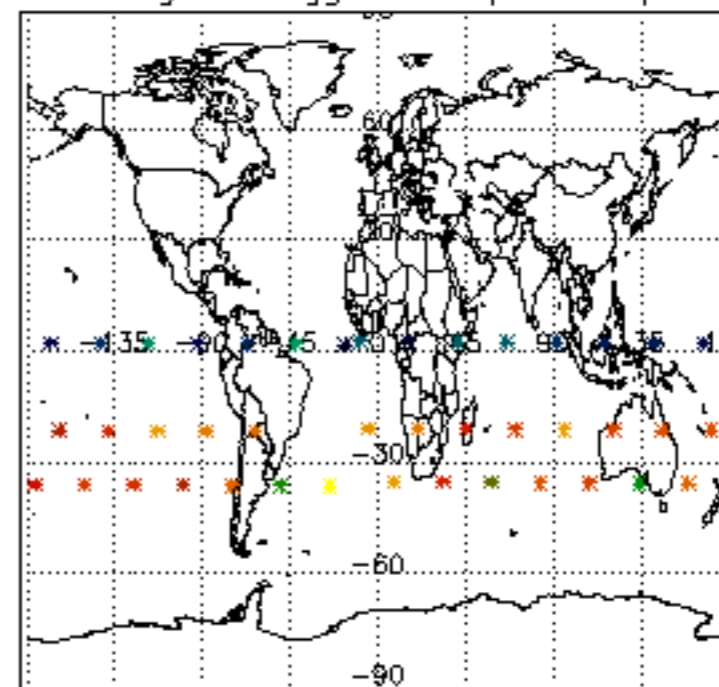
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	20-JUN-2006 00:05:50
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	20-JUN-2006 00:05:50
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	20-JUN-2006 00:05:50



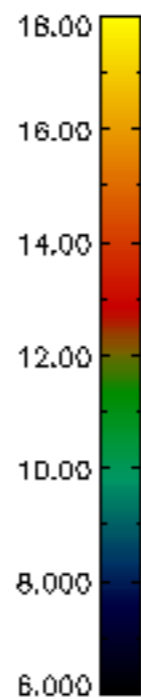
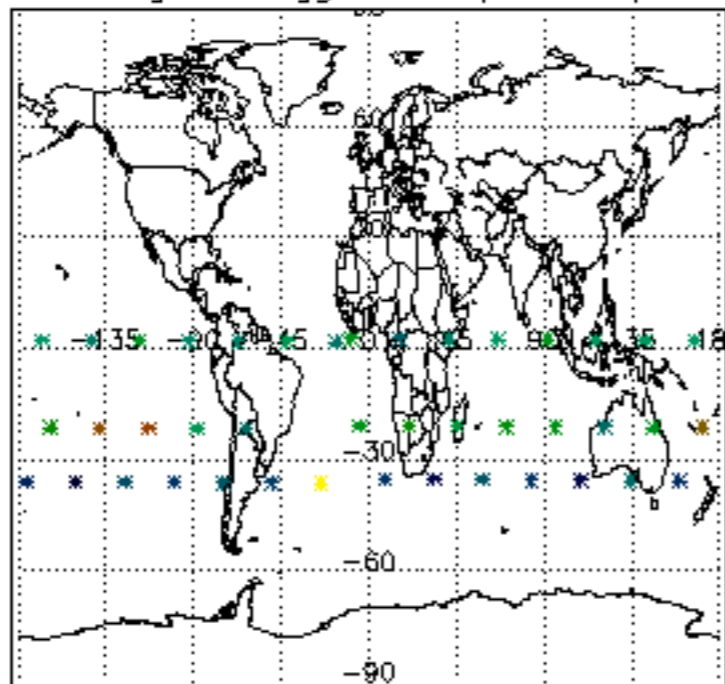
Percentage of flagged data per D3 profile



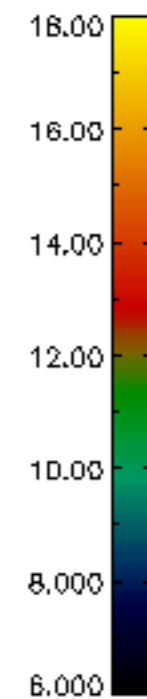
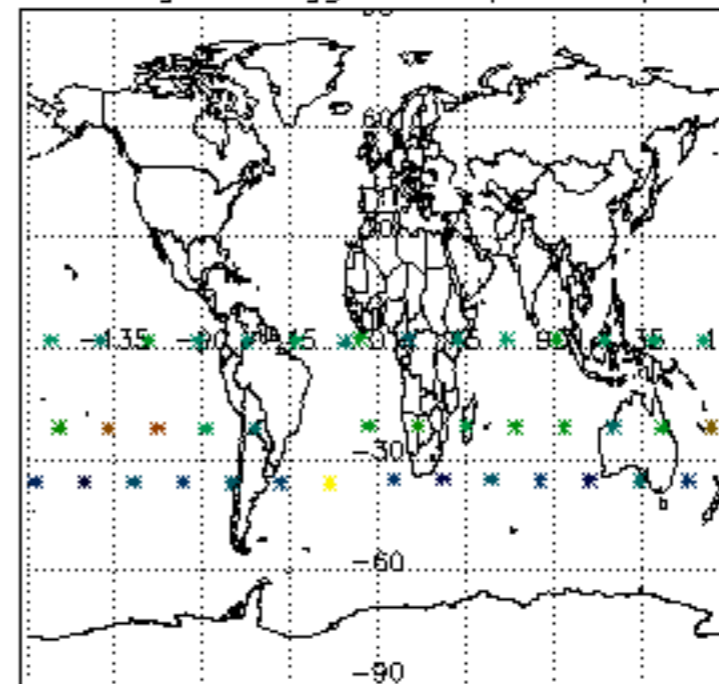
Percentage of flagged data per H2O profile

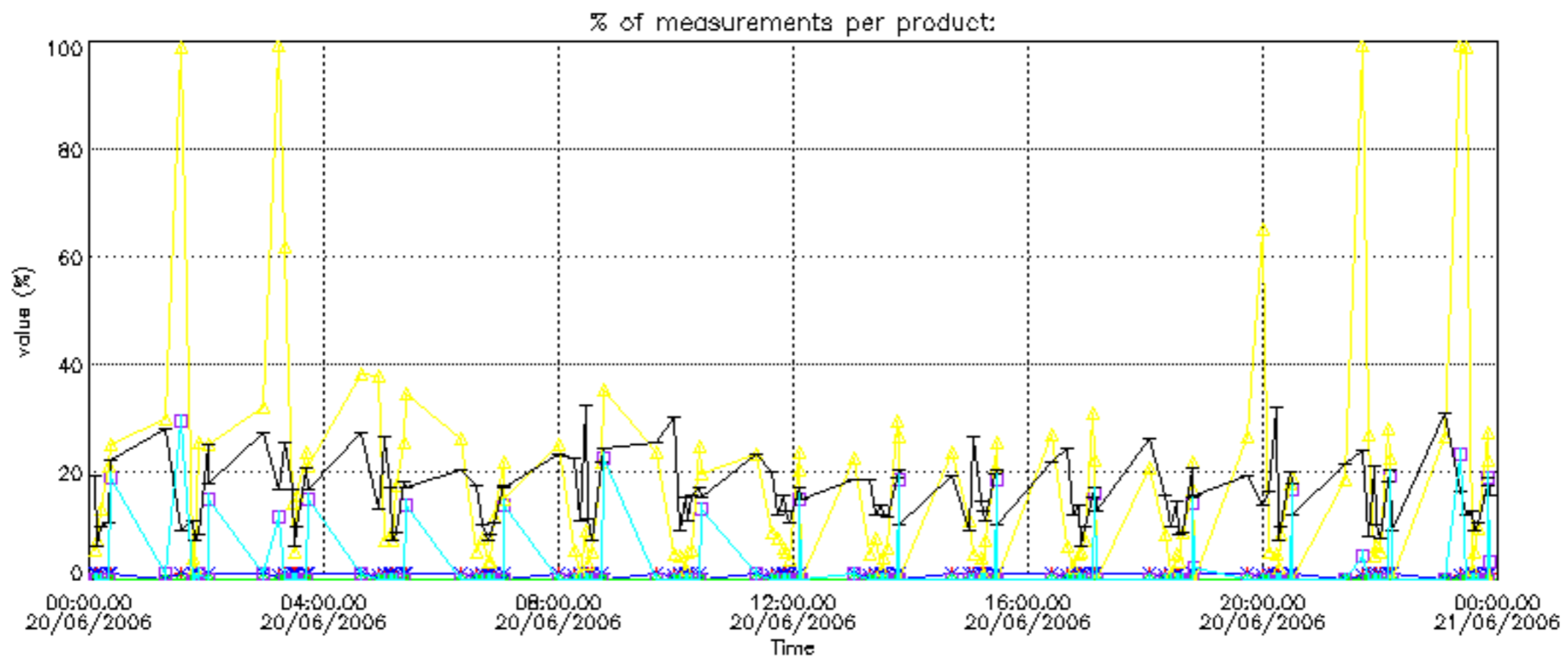
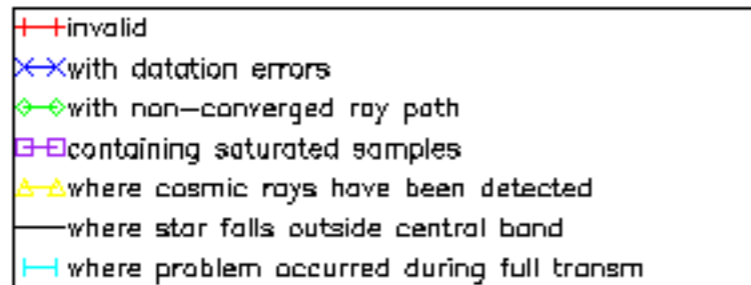


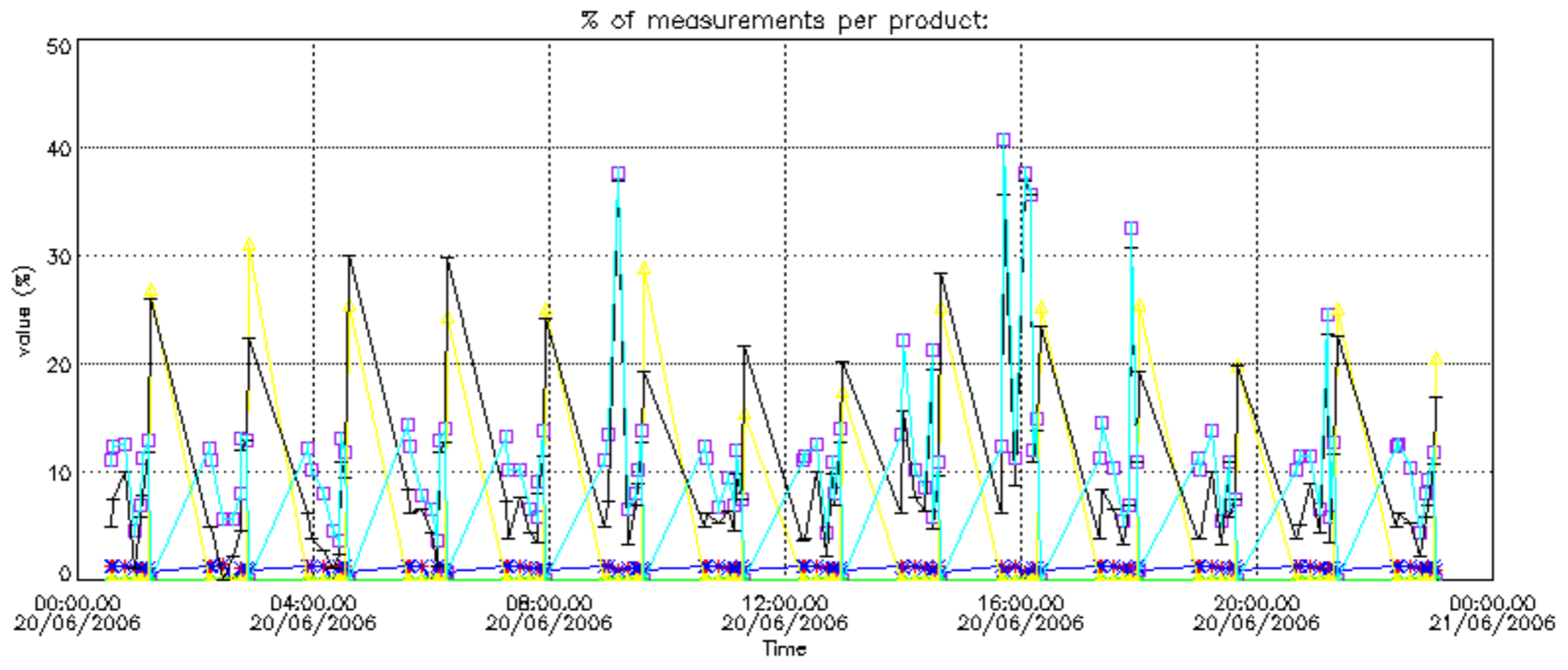
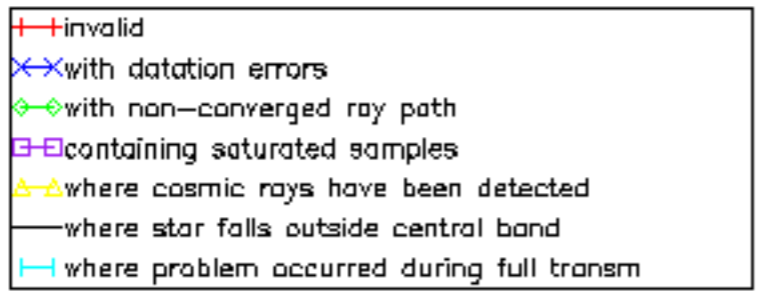
Percentage of flagged data per NO2 profile



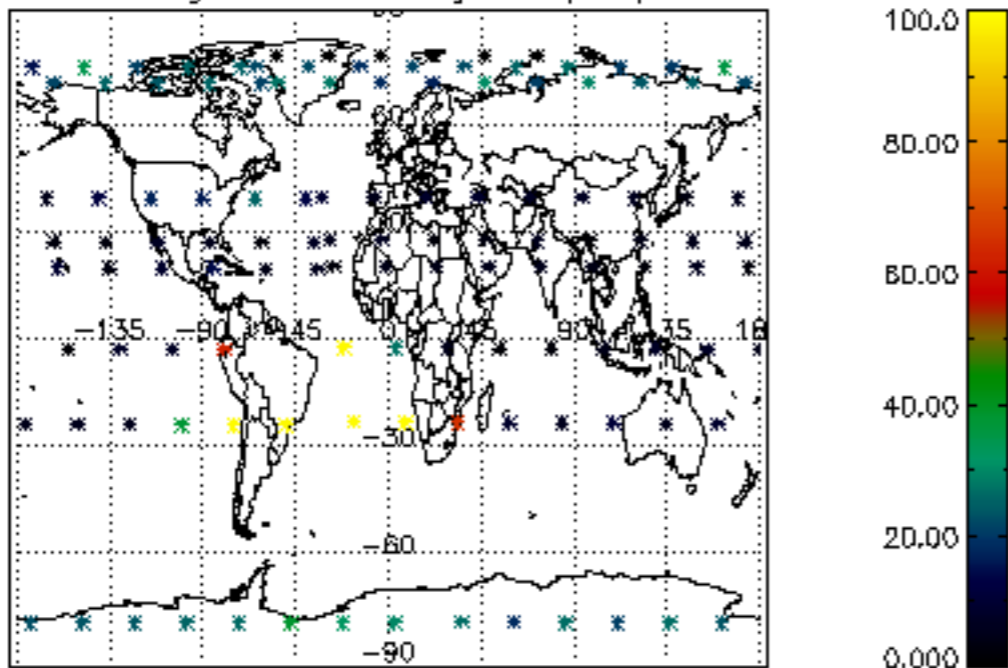
Percentage of flagged data per NO3 profile



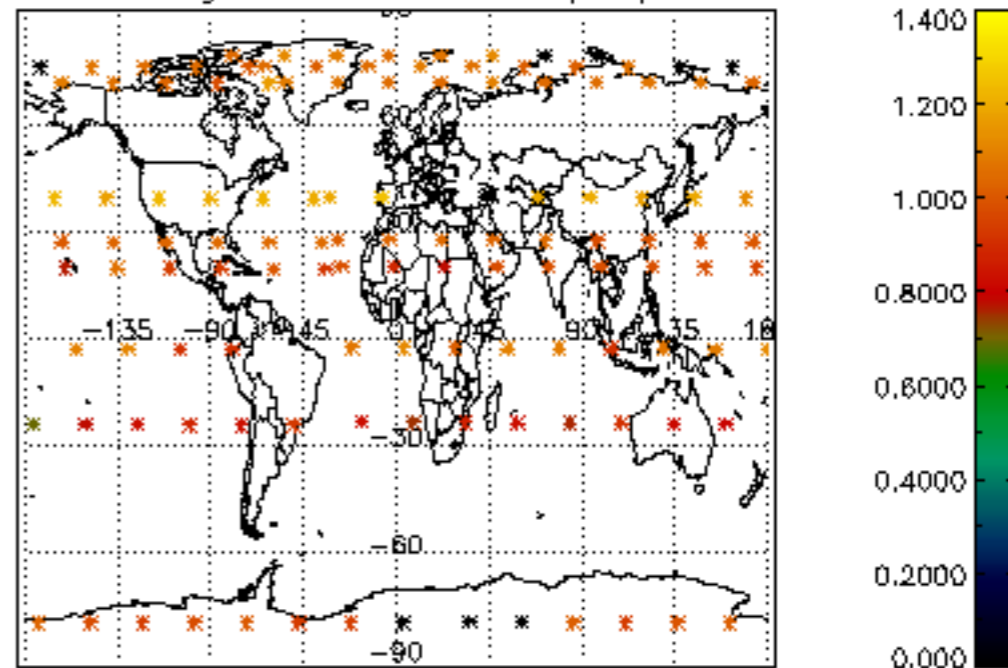




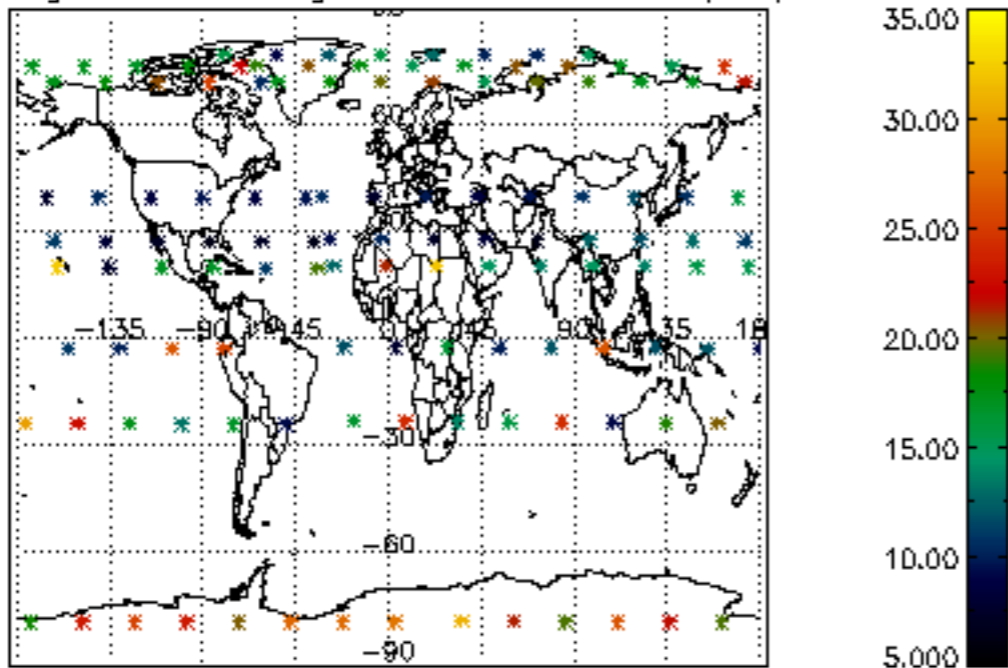
Percentage of cosmic ray hits per profile



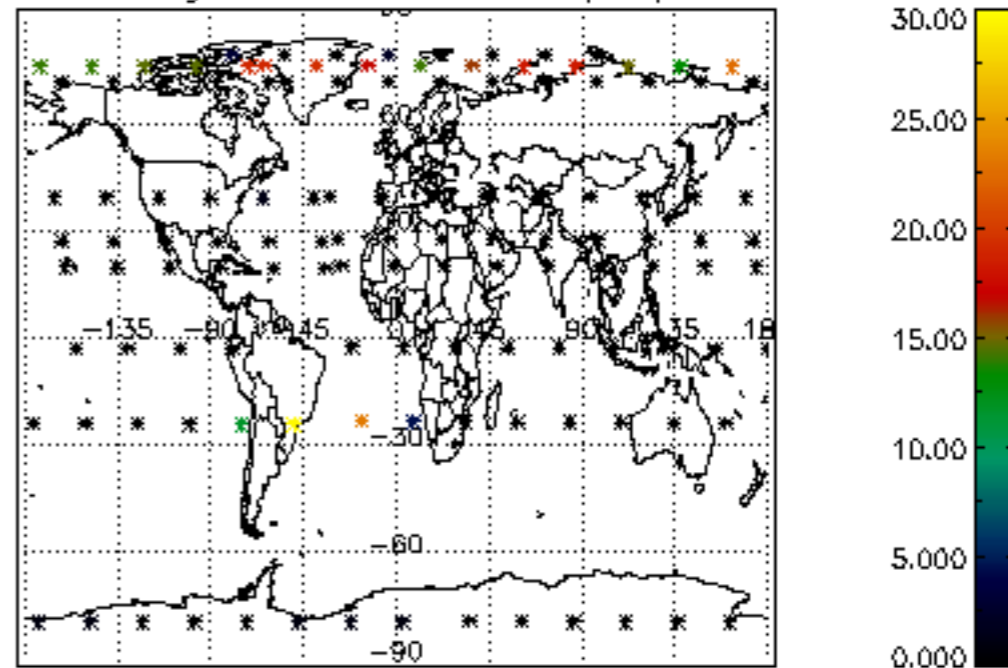
Percentage of datation errors per profile



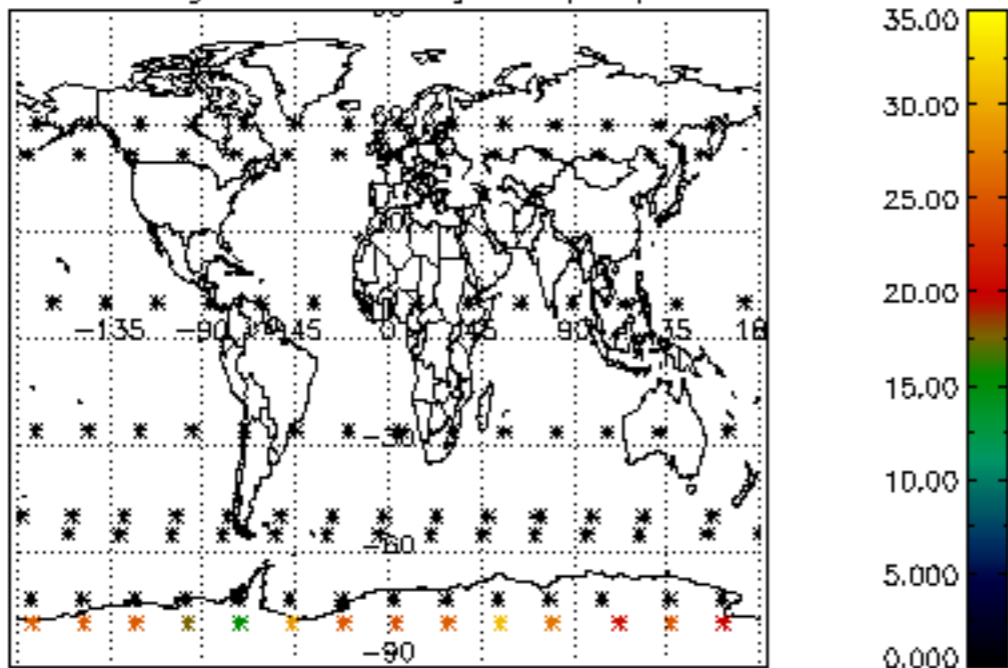
Percentage of star falling outside central band per profile



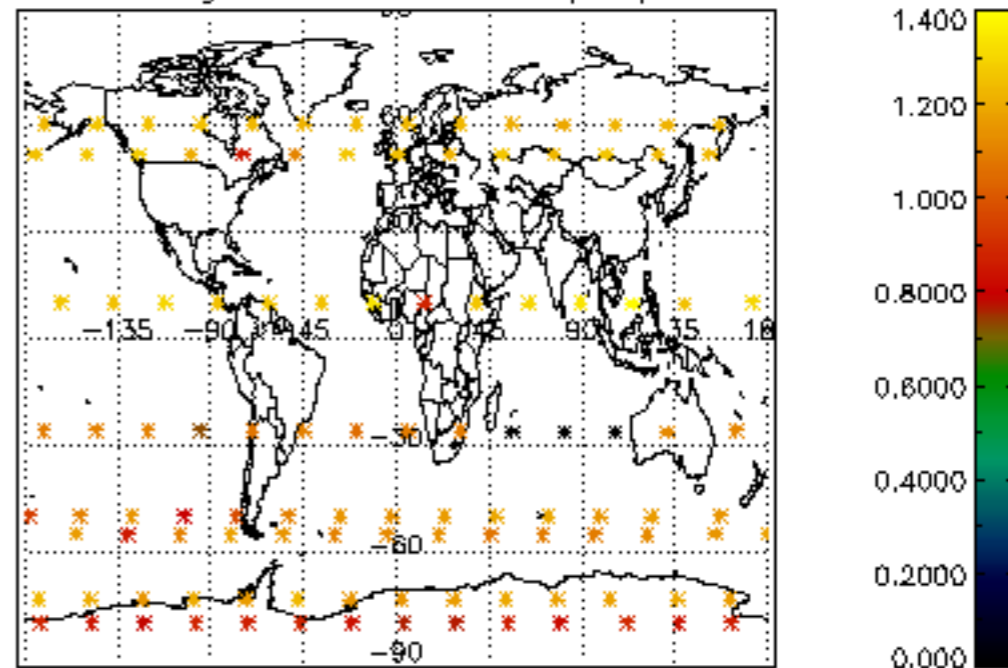
Percentage of saturation errors per profile



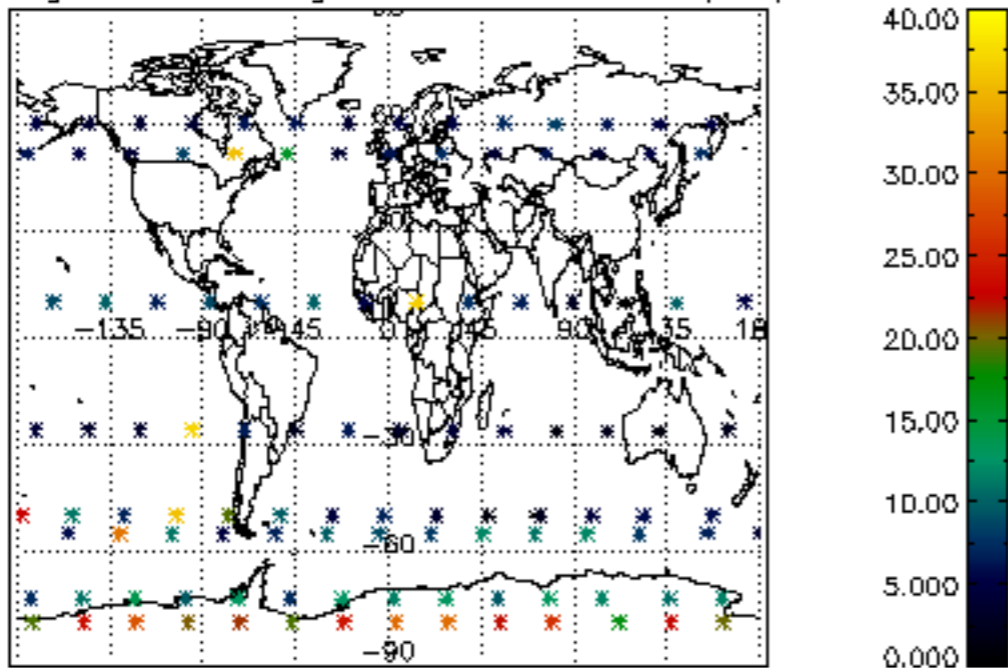
Percentage of cosmic ray hits per profile



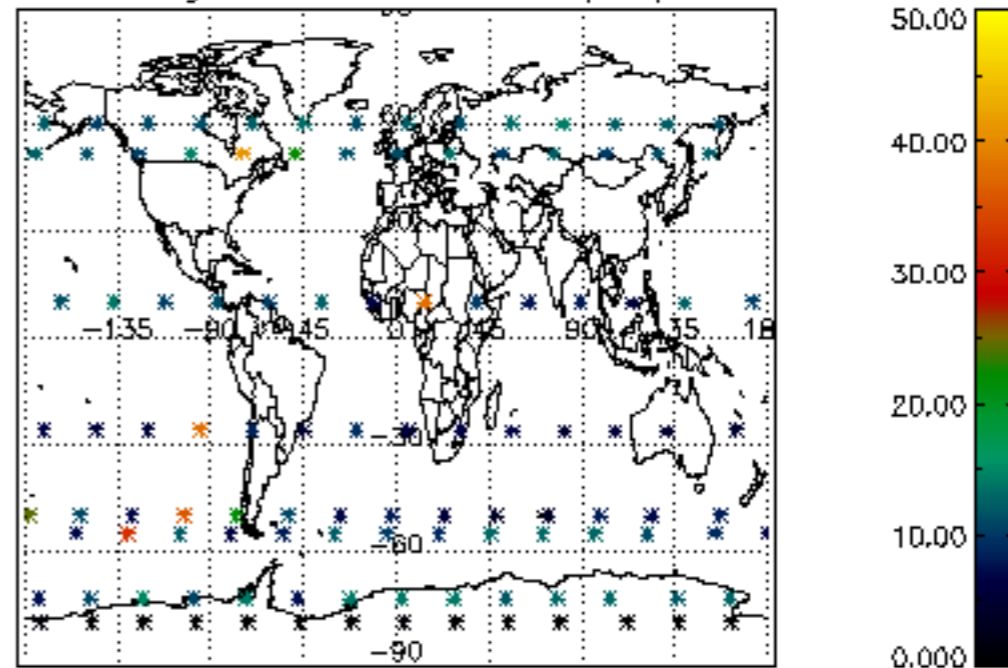
Percentage of datation errors per profile

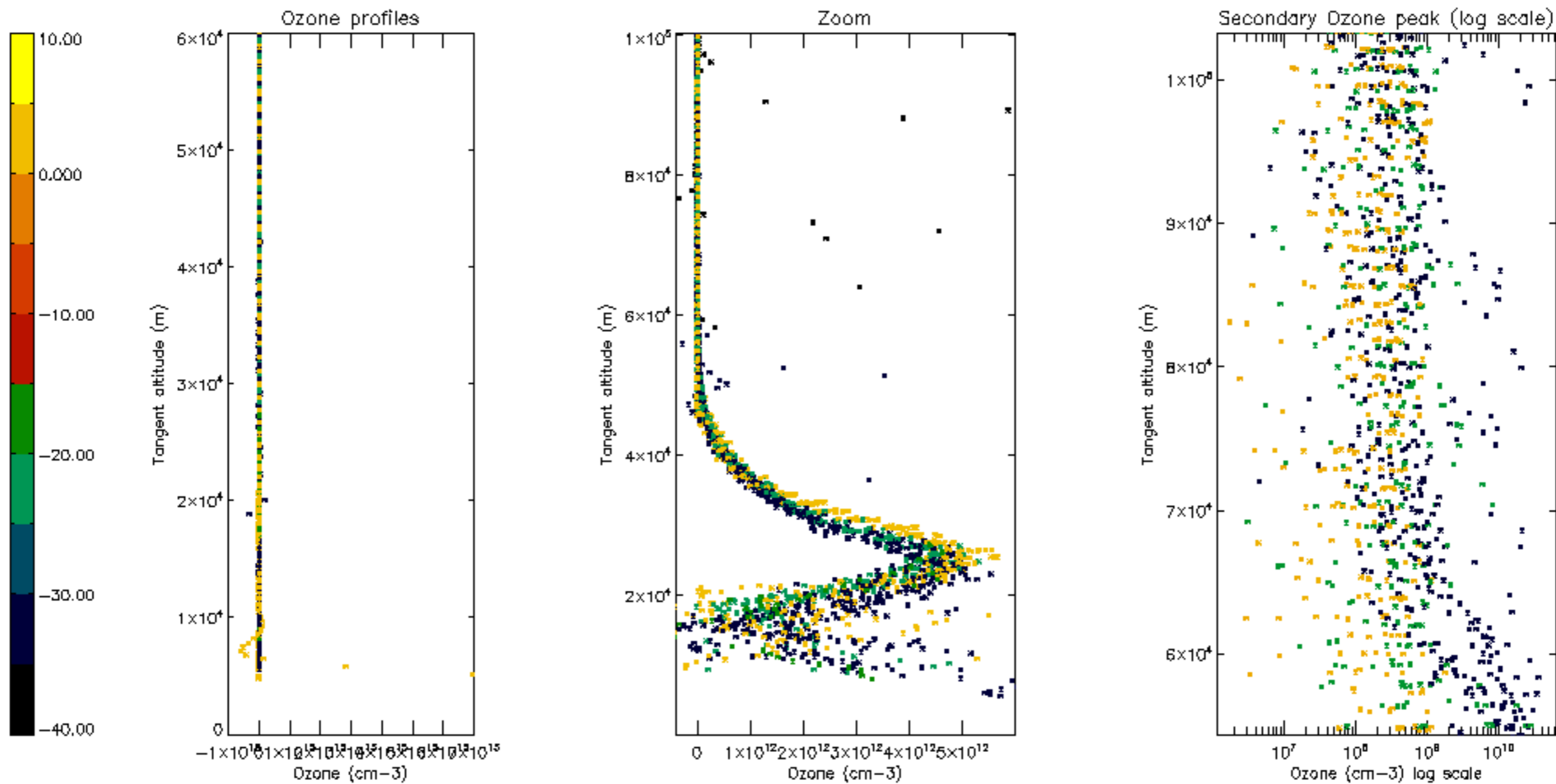


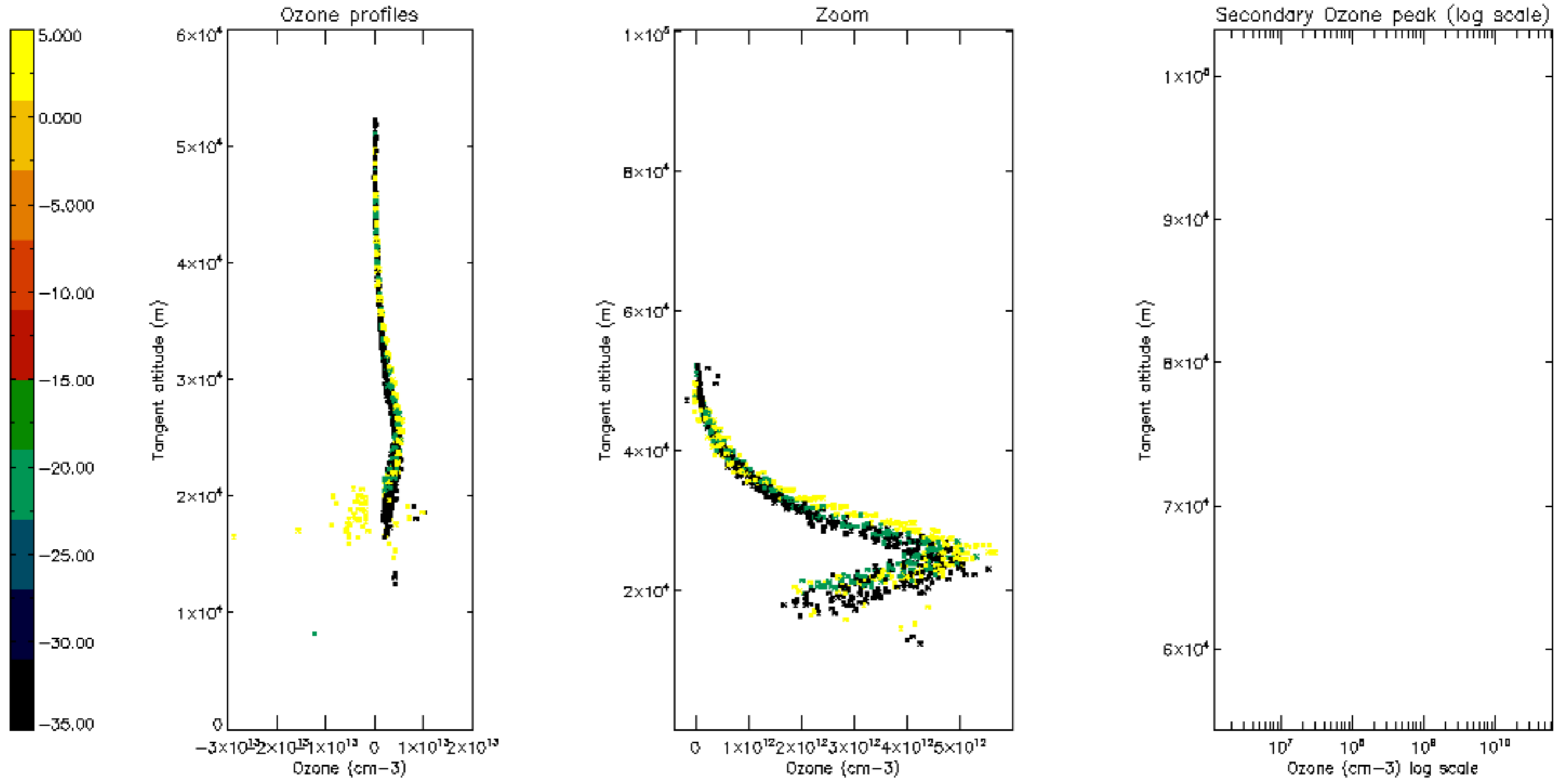
Percentage of star falling outside central band per profile

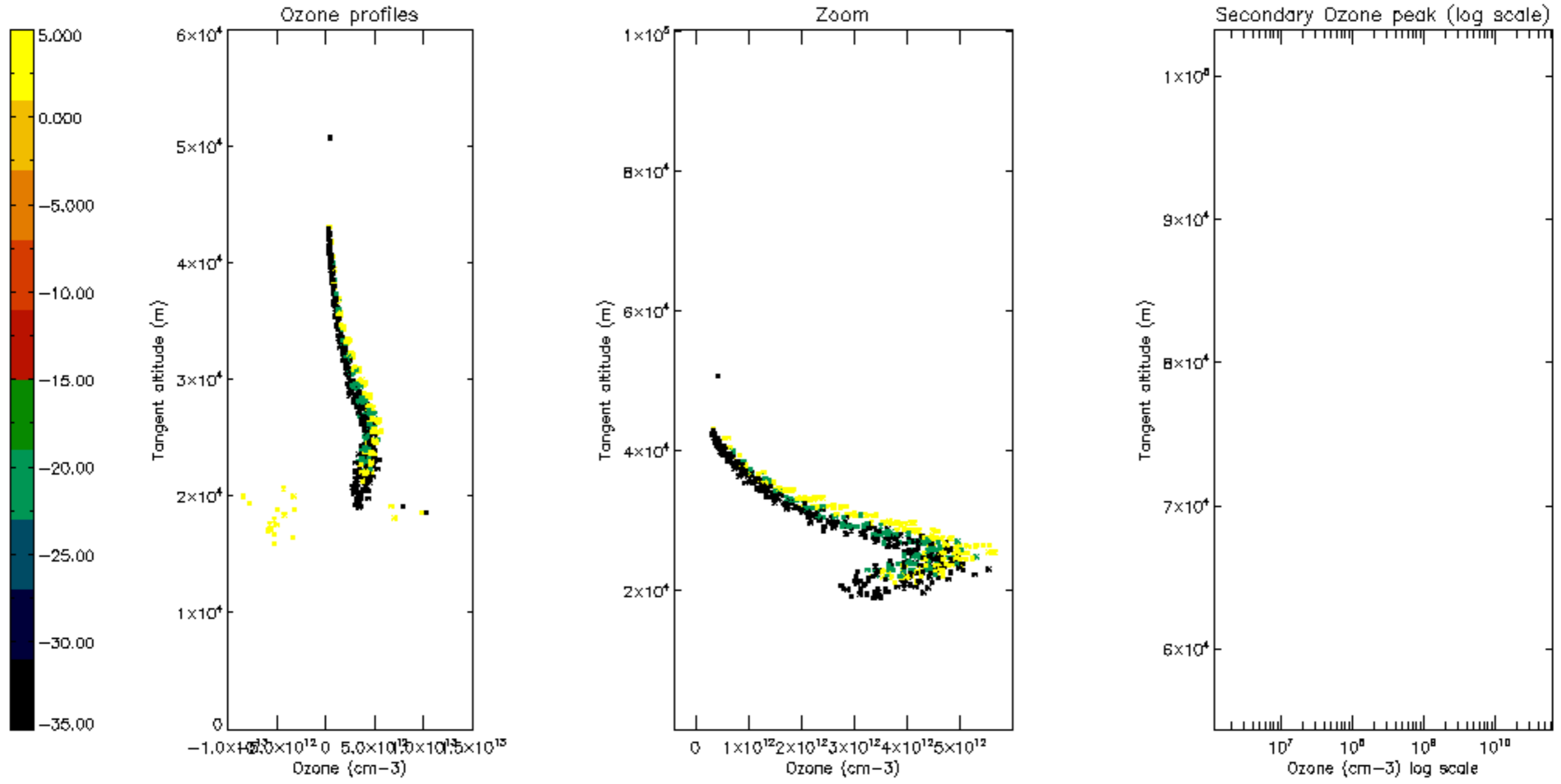


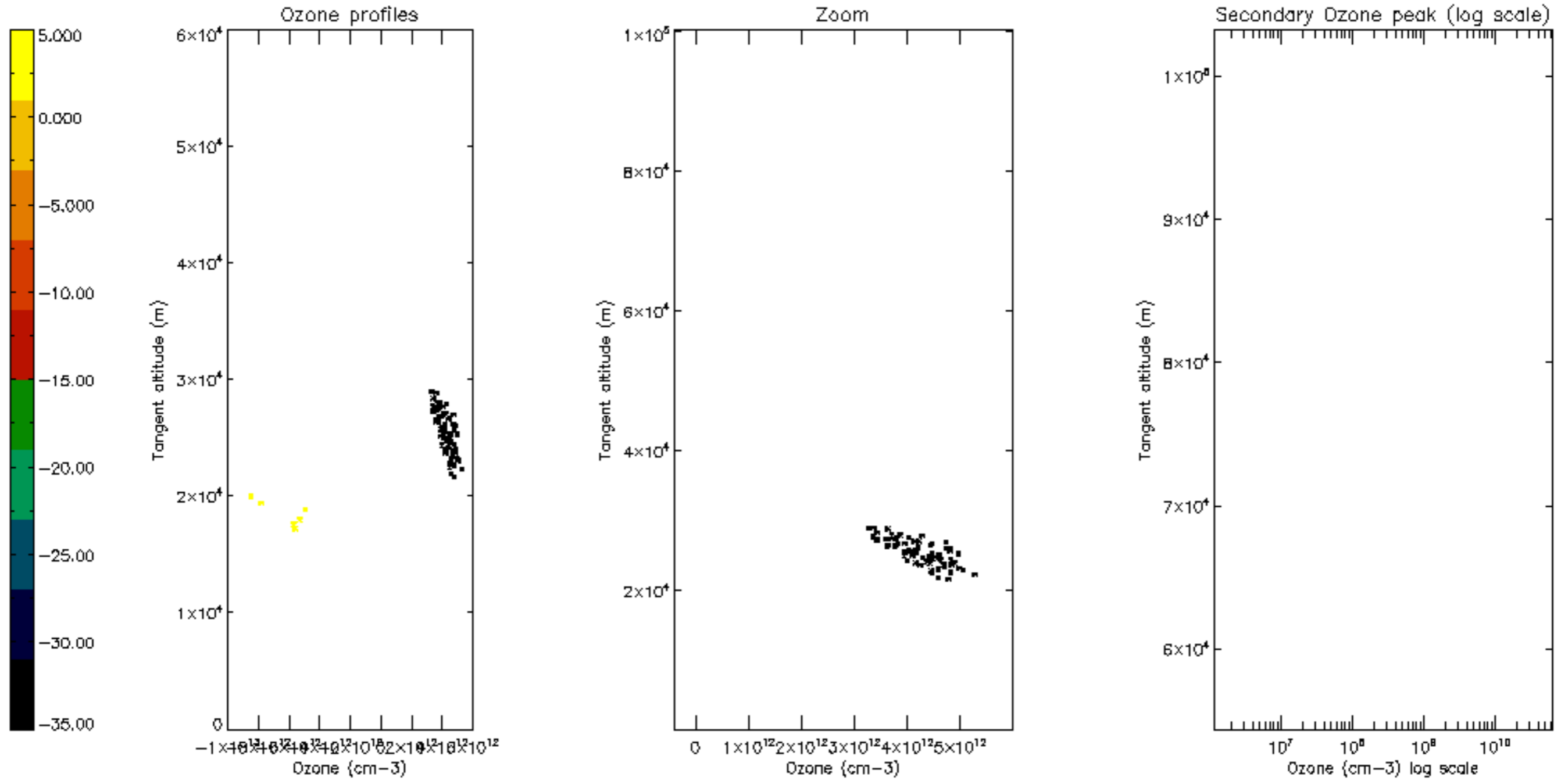
Percentage of saturation errors per profile

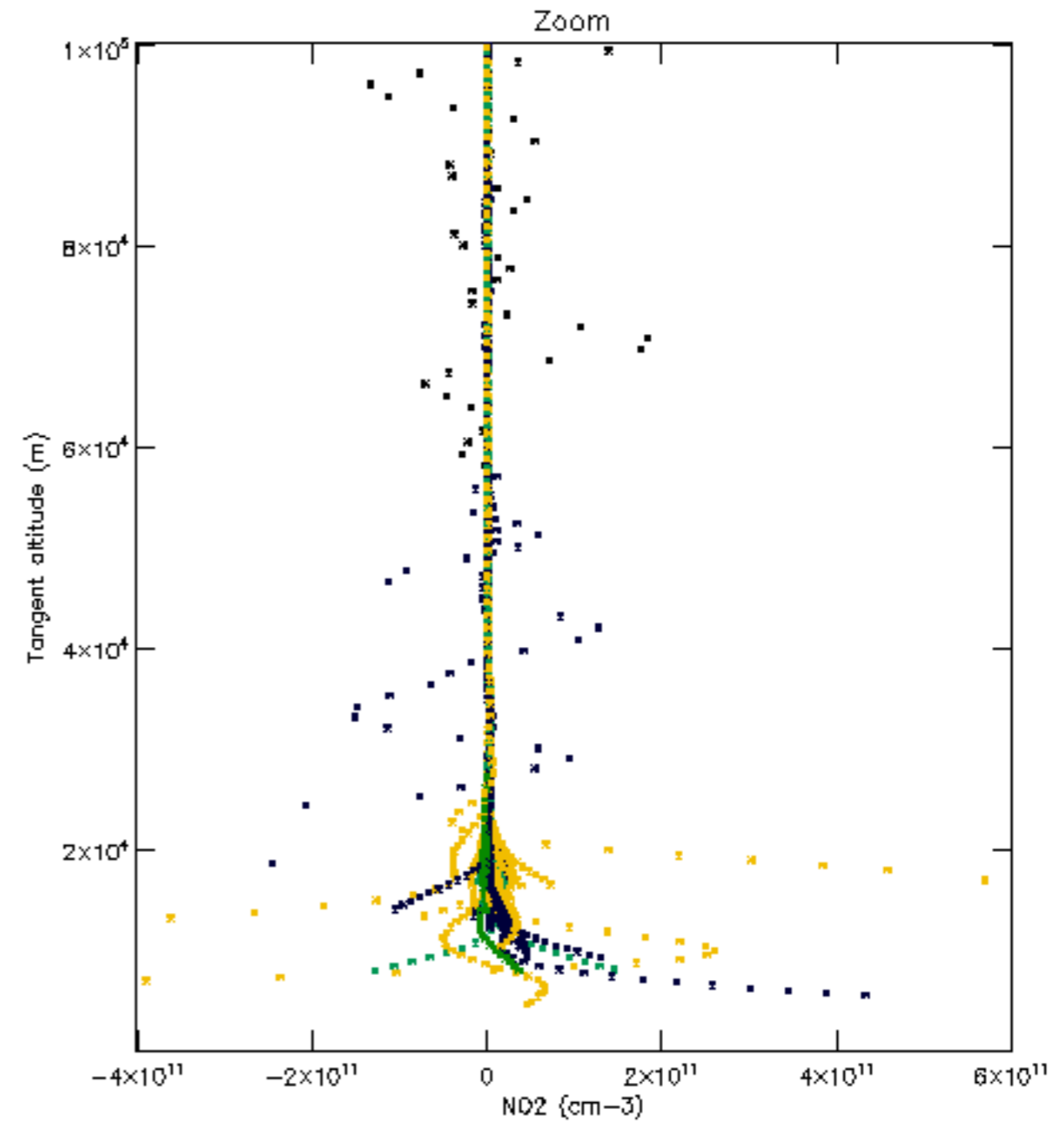
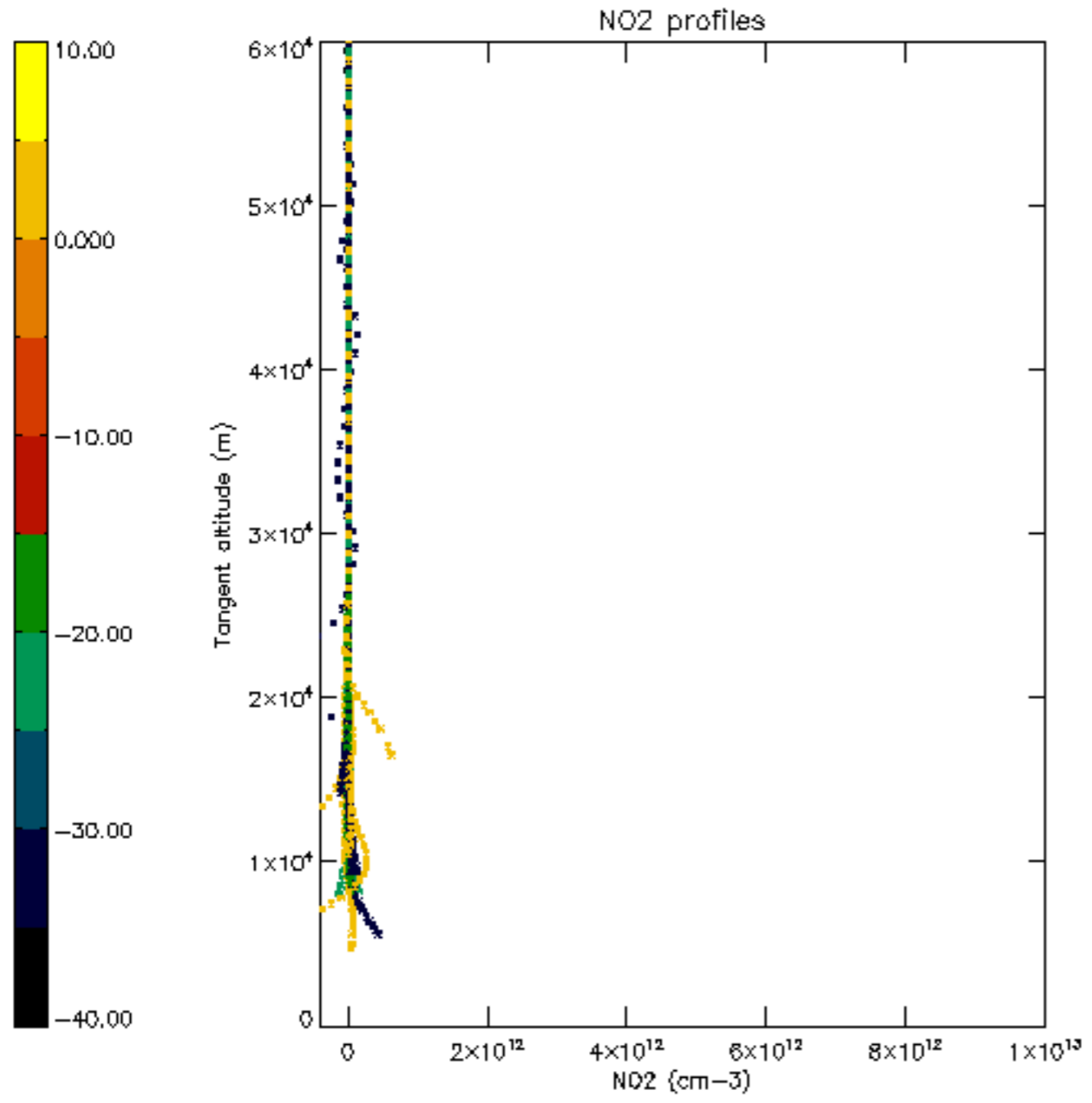


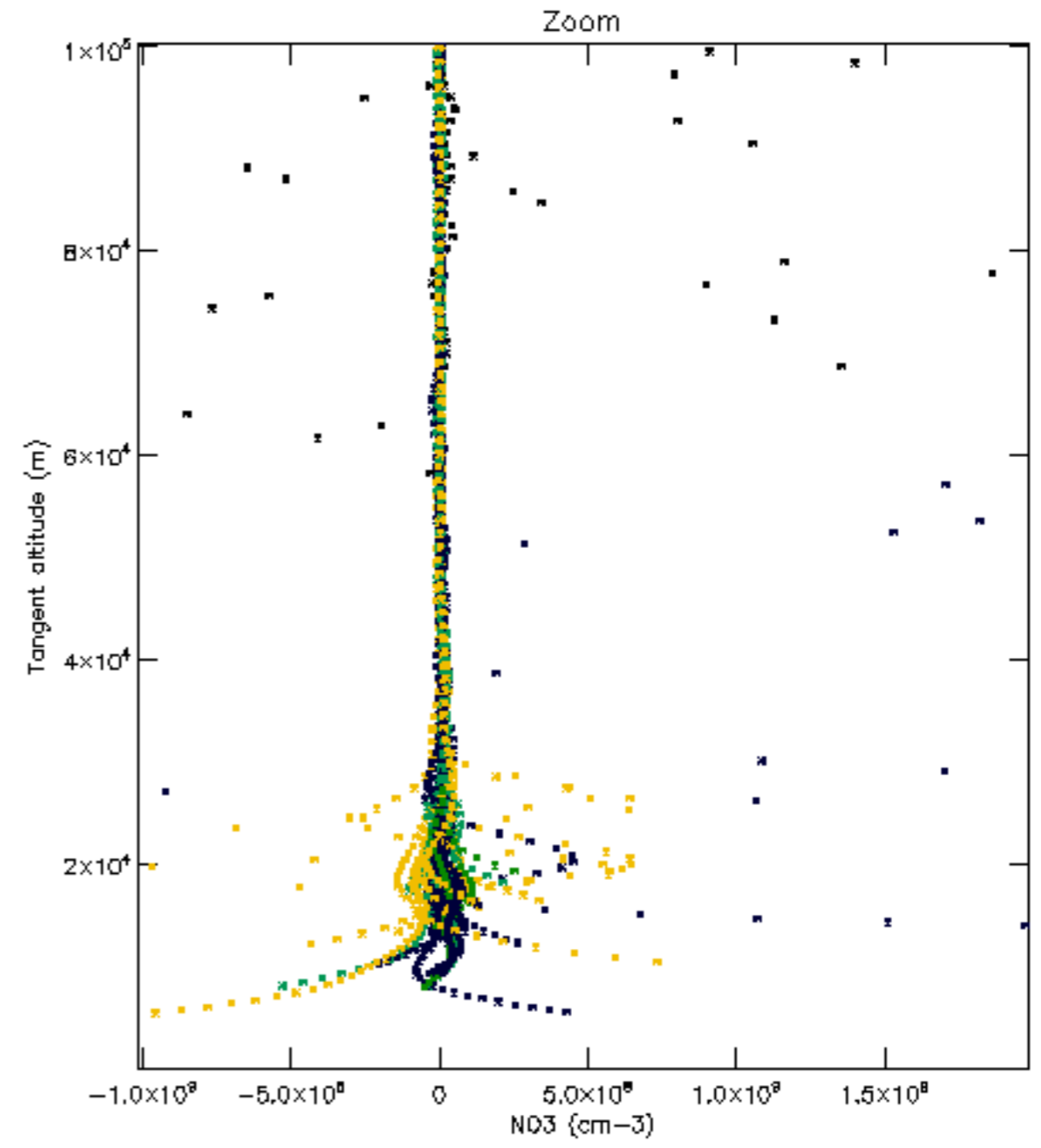
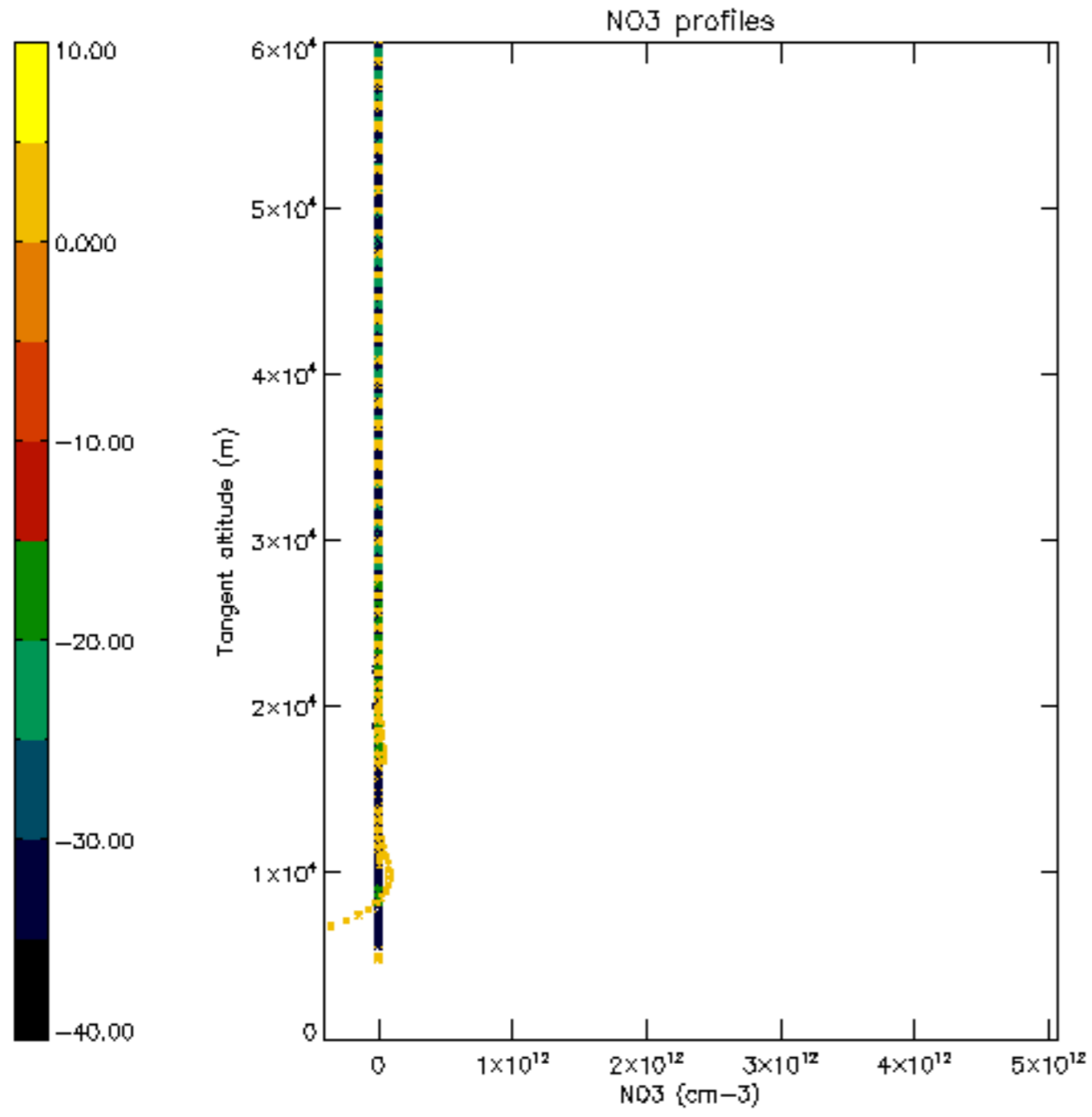


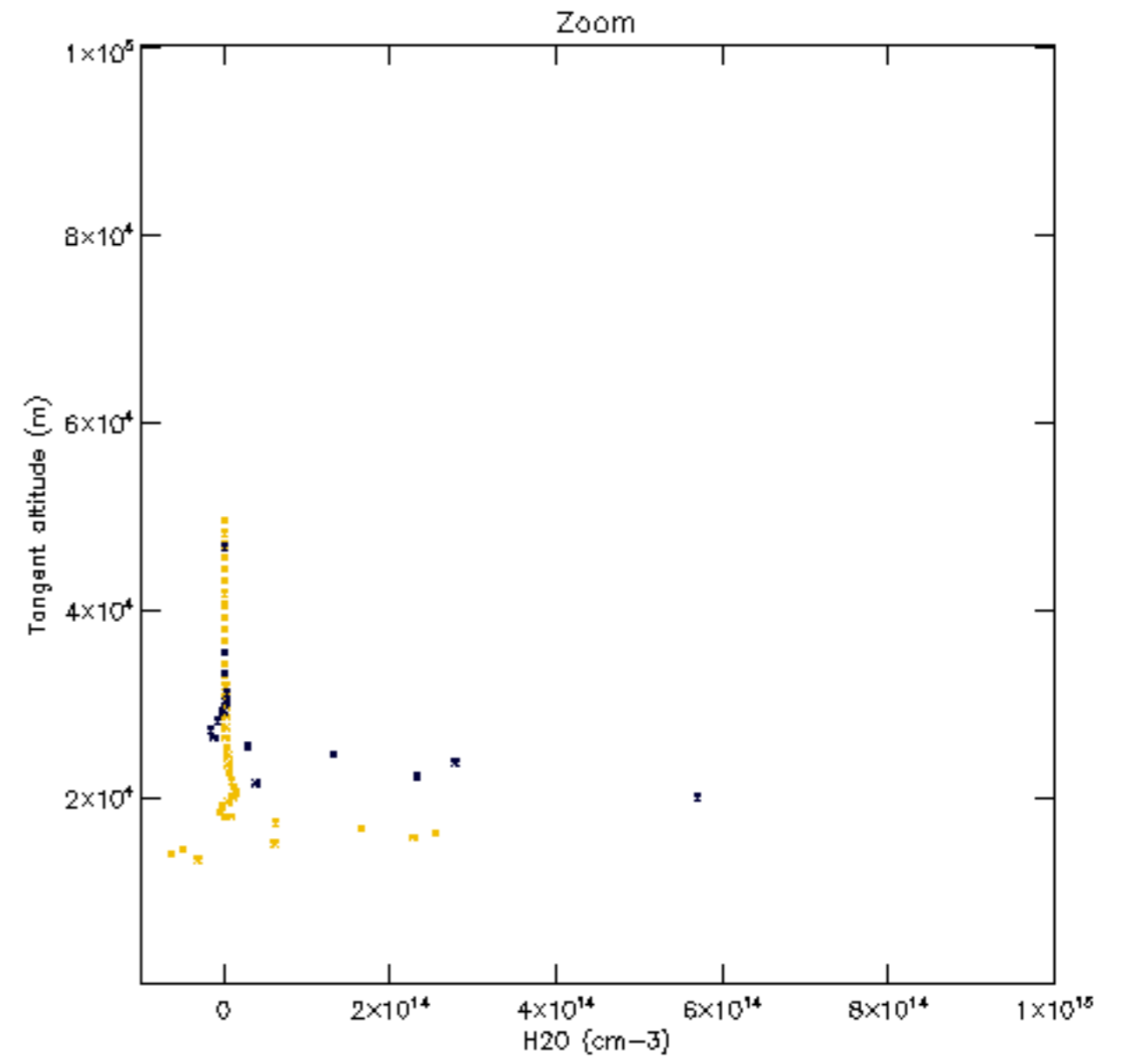
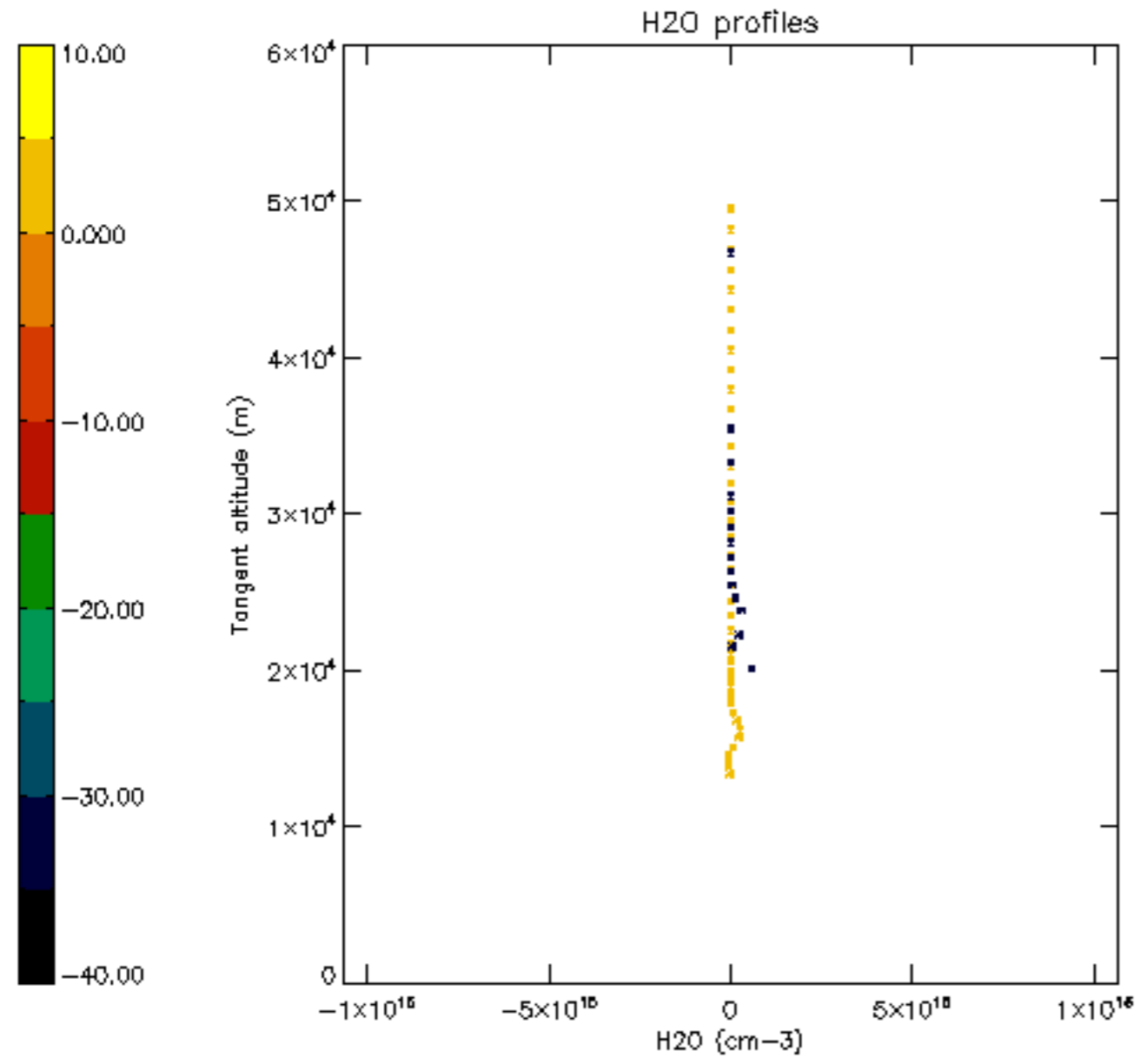


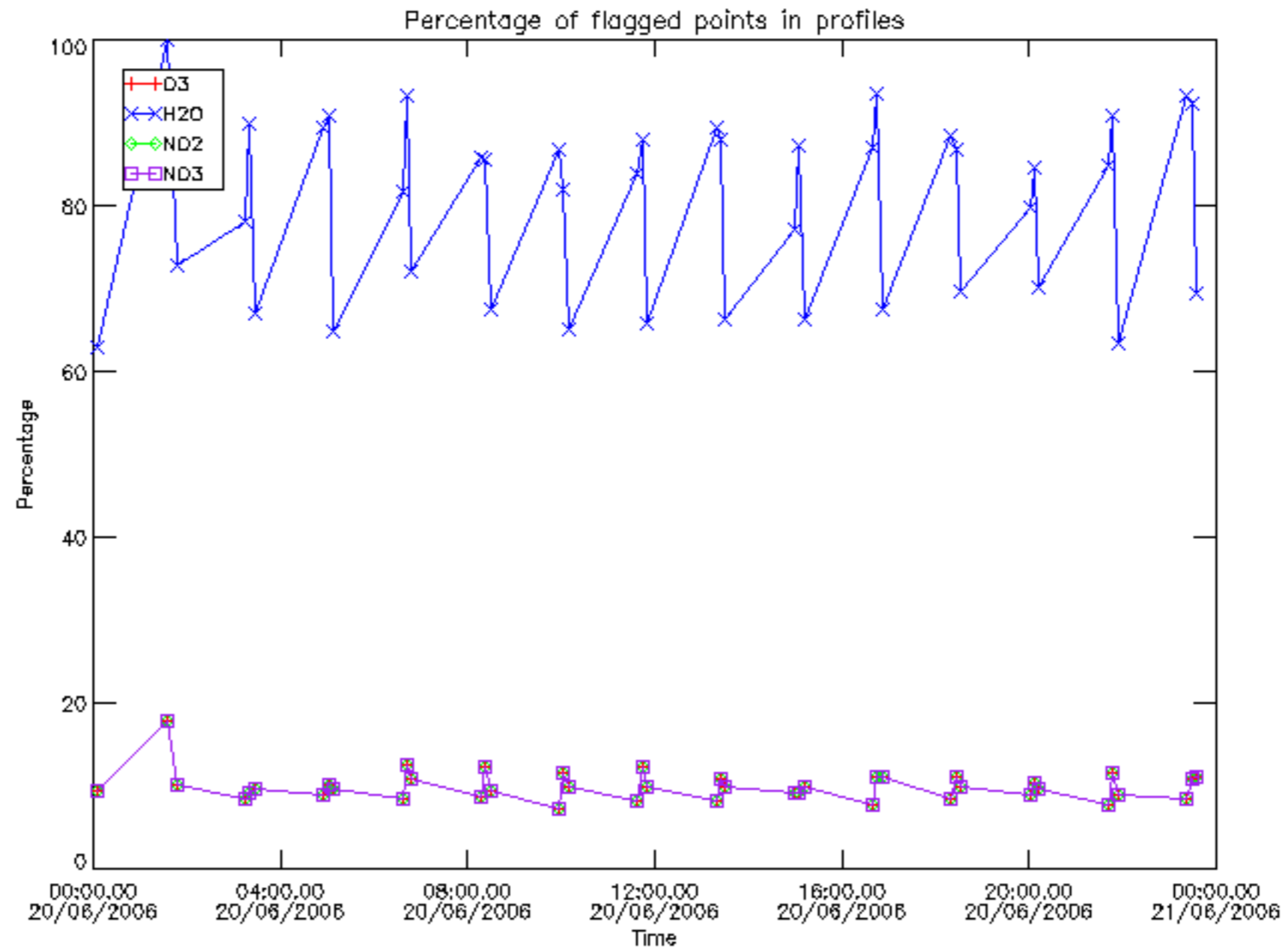




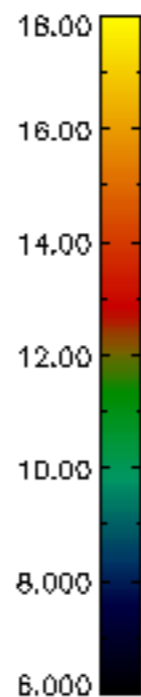
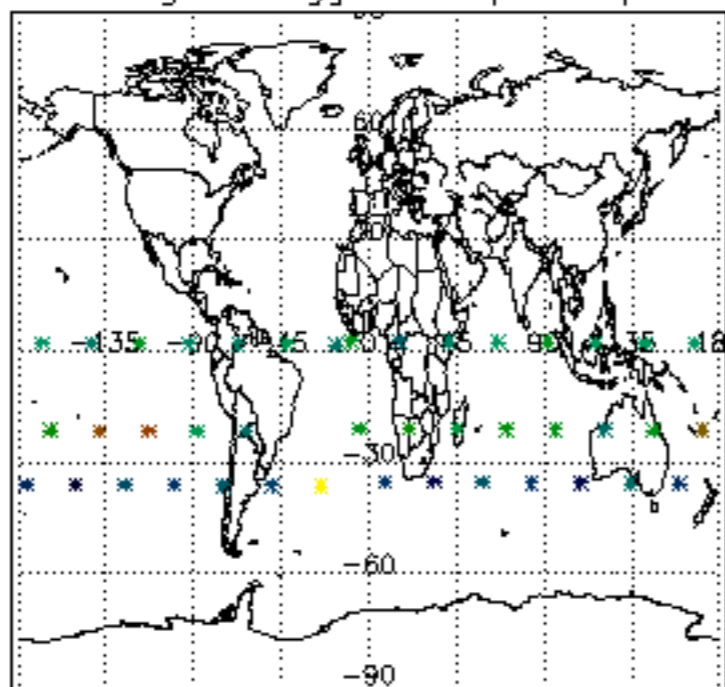




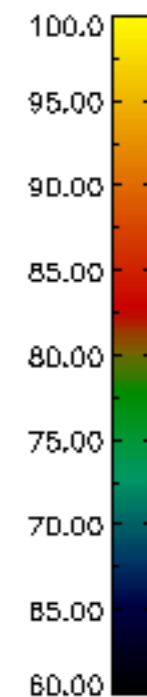
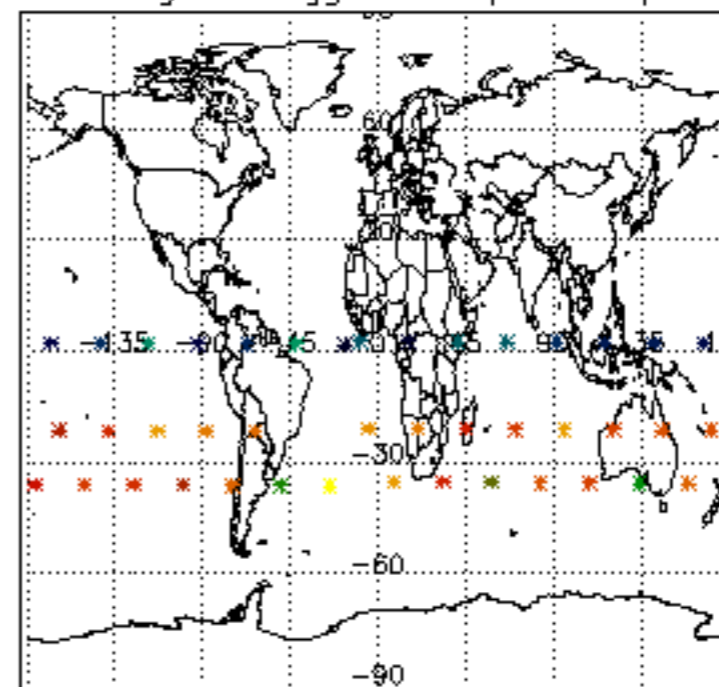




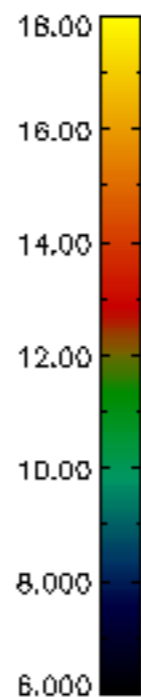
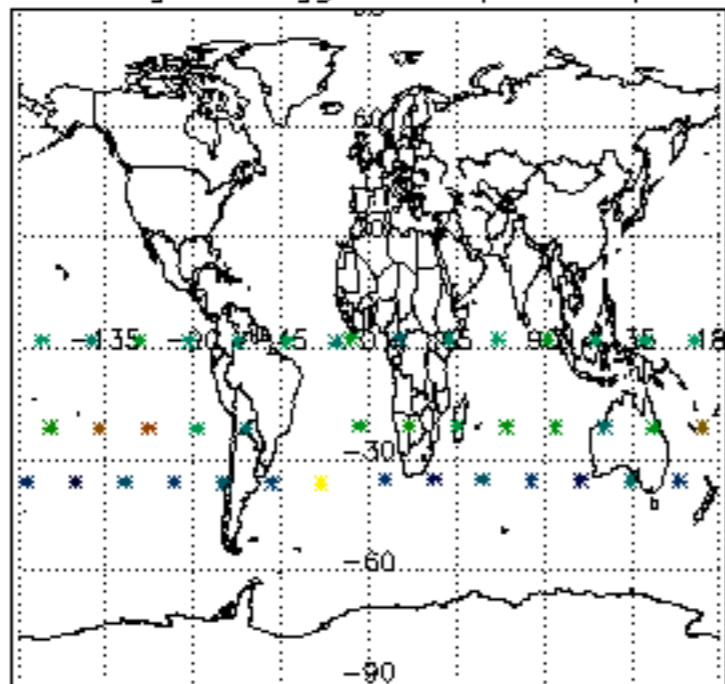
Percentage of flagged data per D3 profile



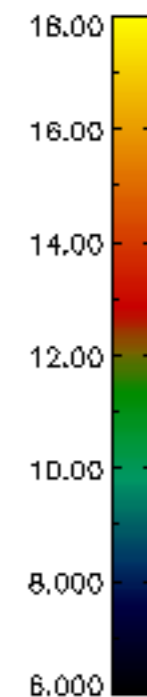
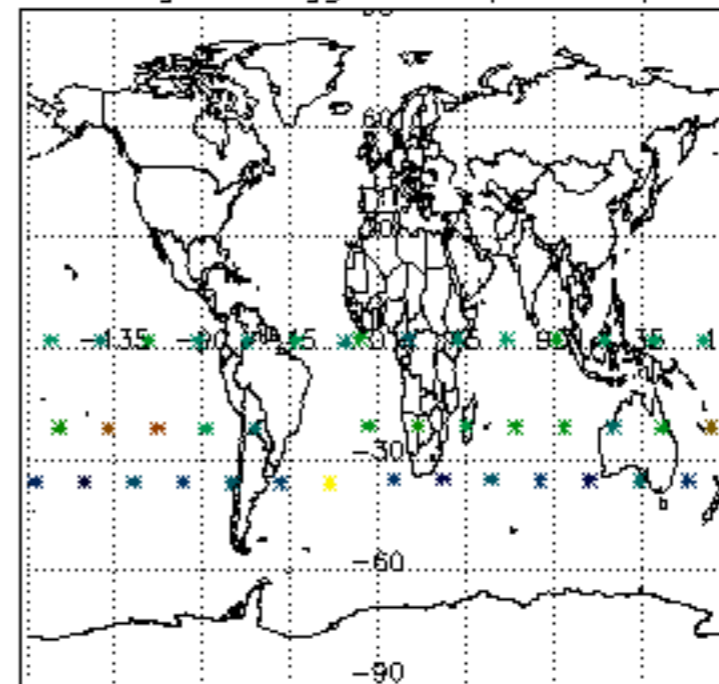
Percentage of flagged data per H2O profile

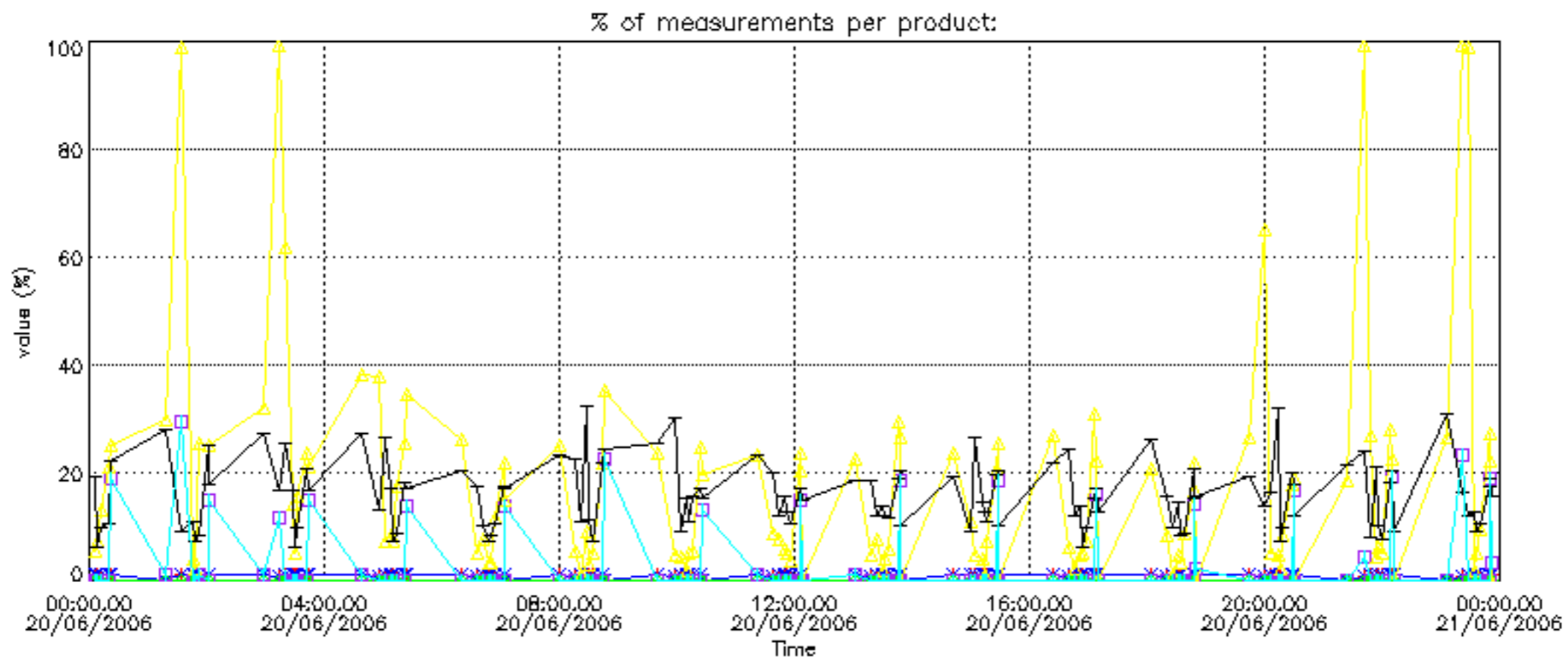
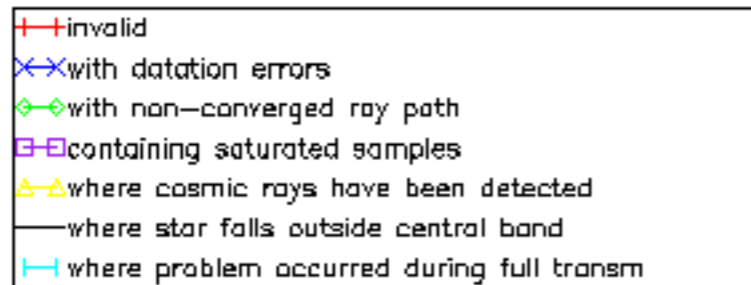


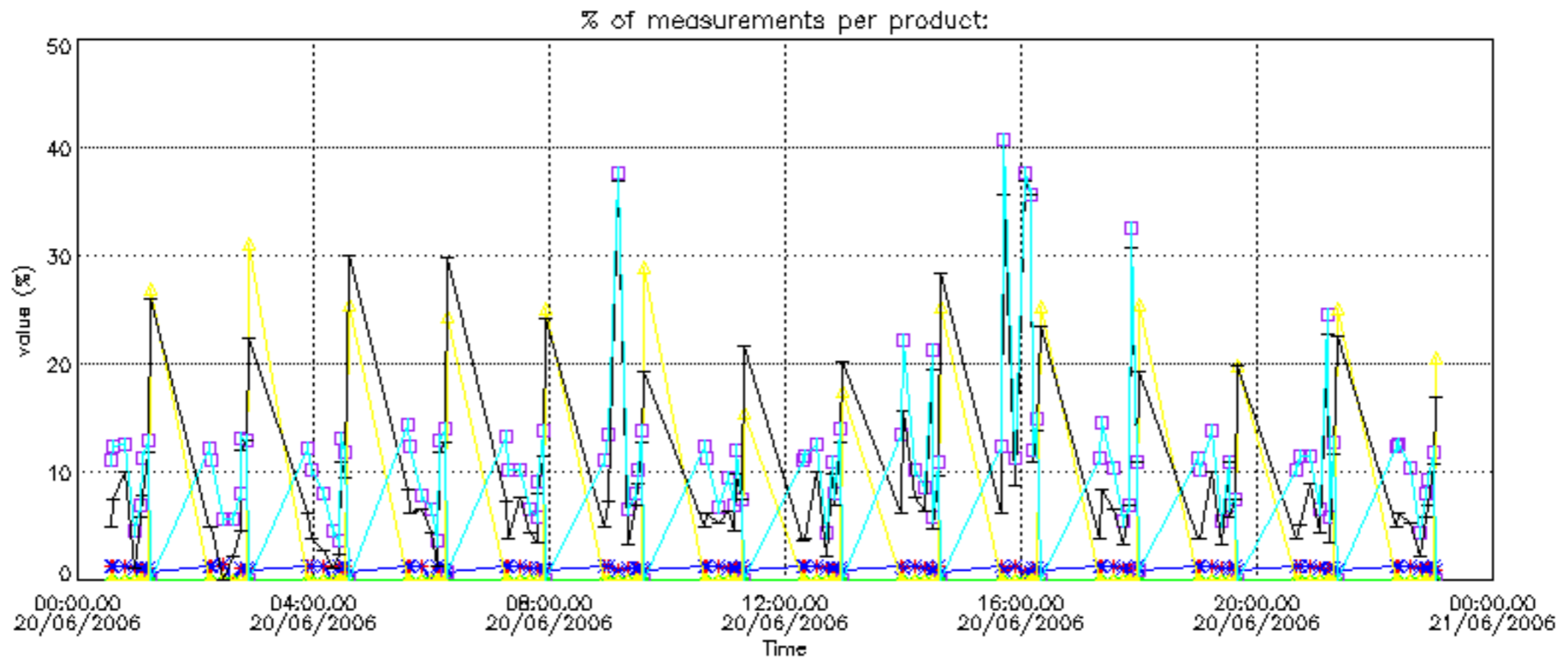
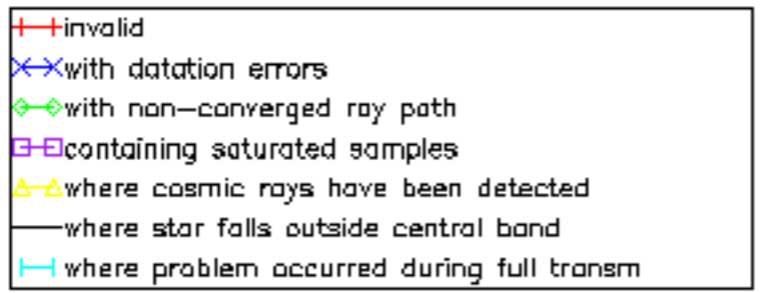
Percentage of flagged data per NO2 profile



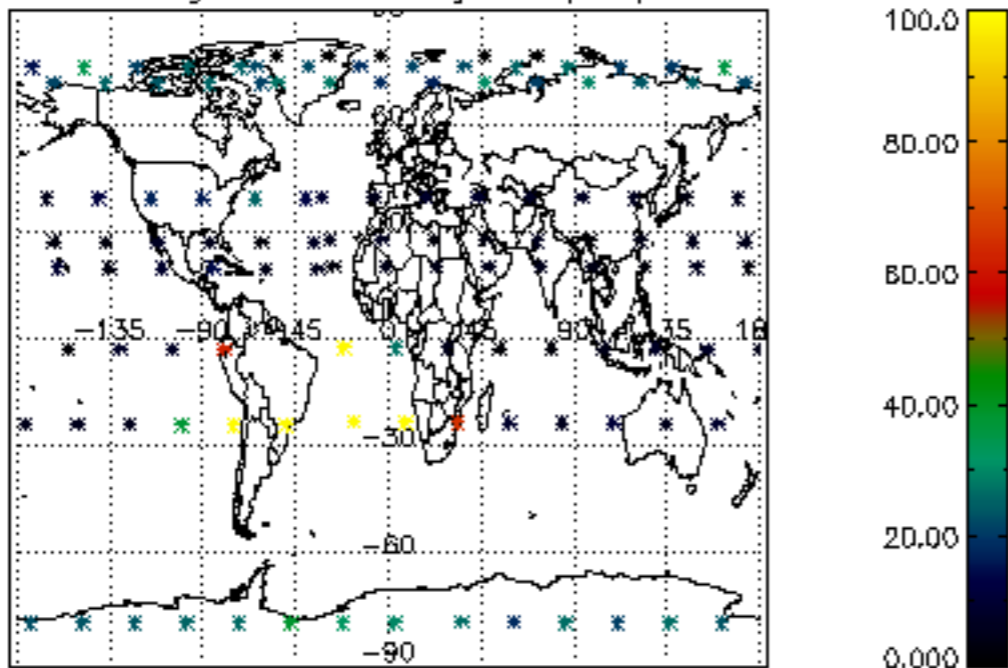
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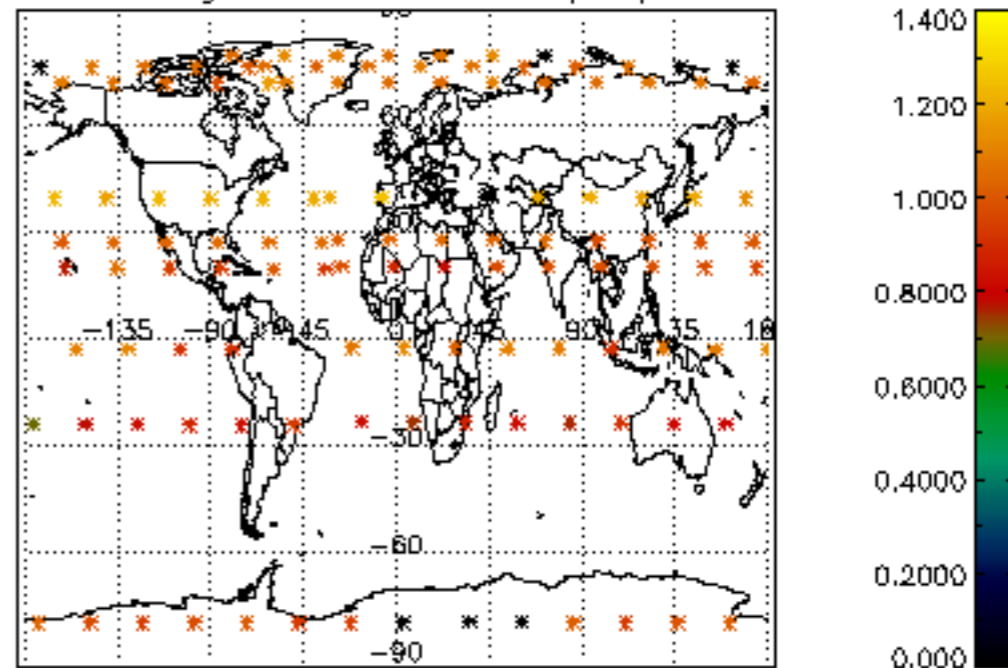




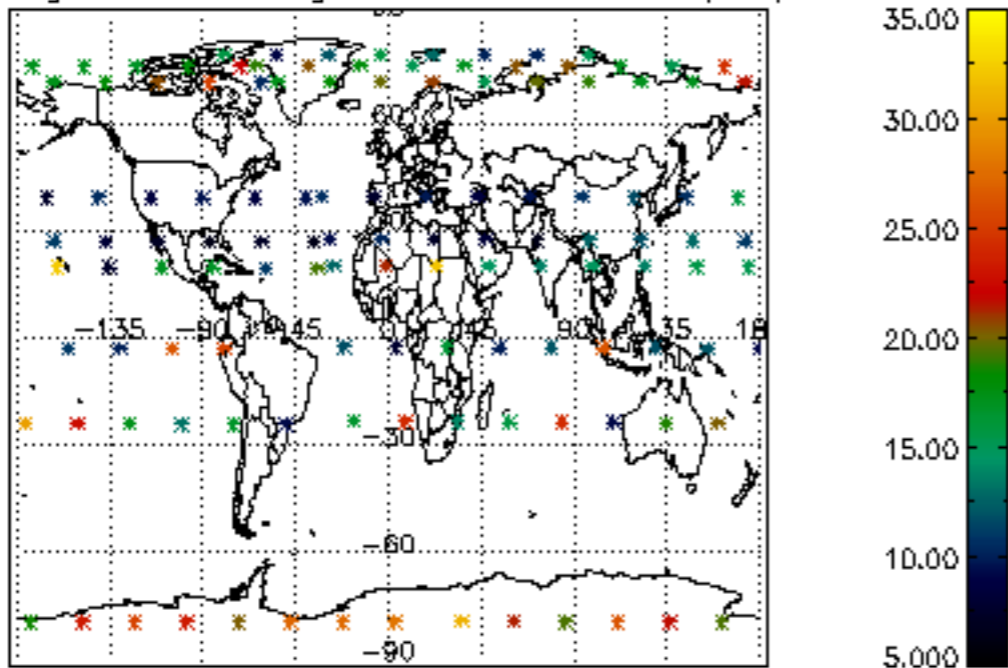
Percentage of cosmic ray hits per profile



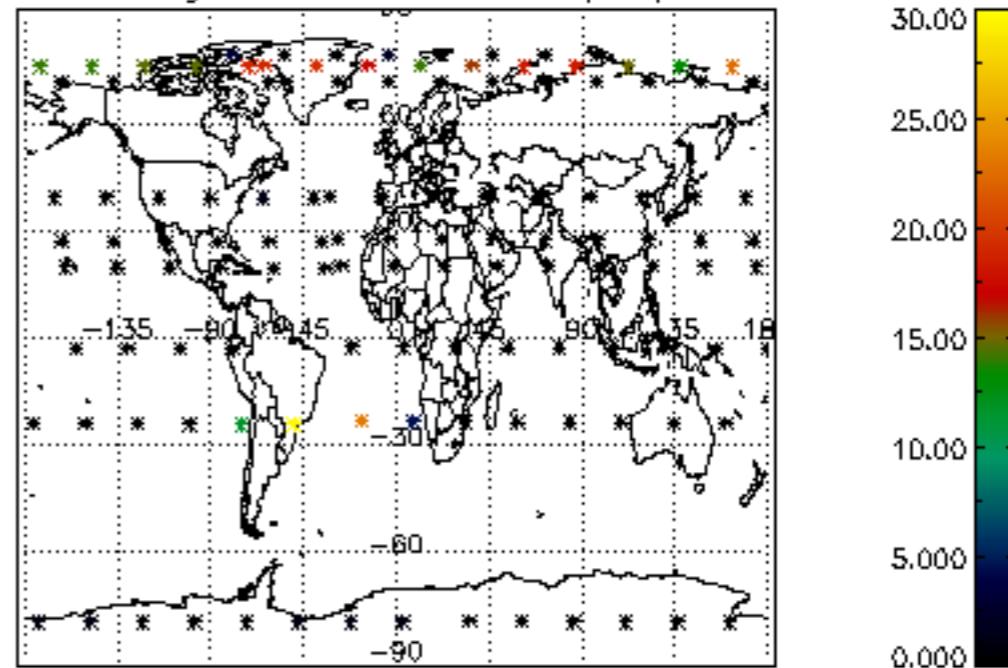
Percentage of datation errors per profile



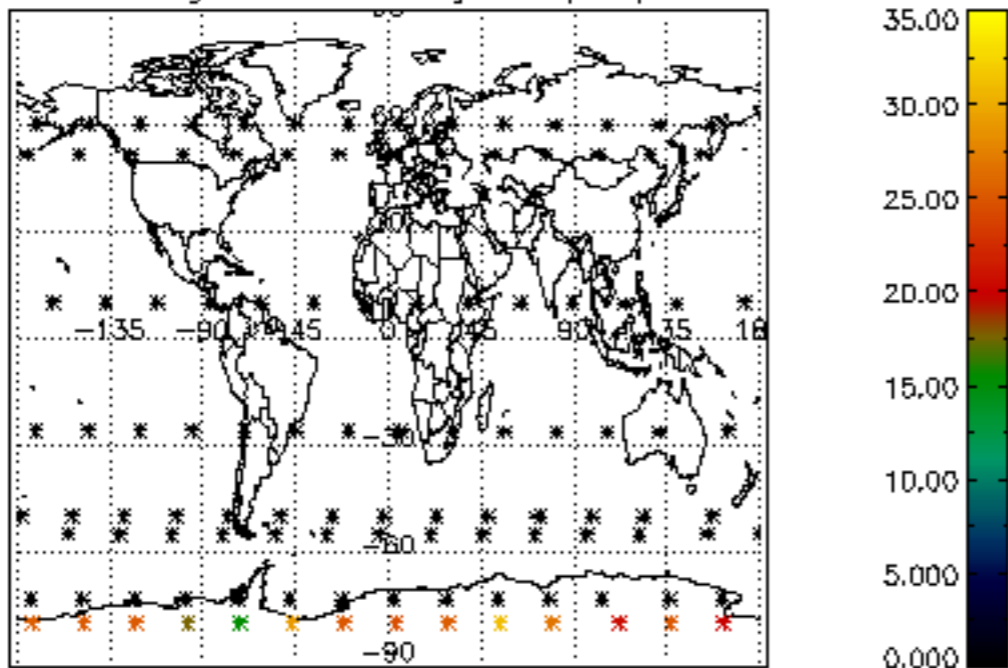
Percentage of star falling outside central band per profile



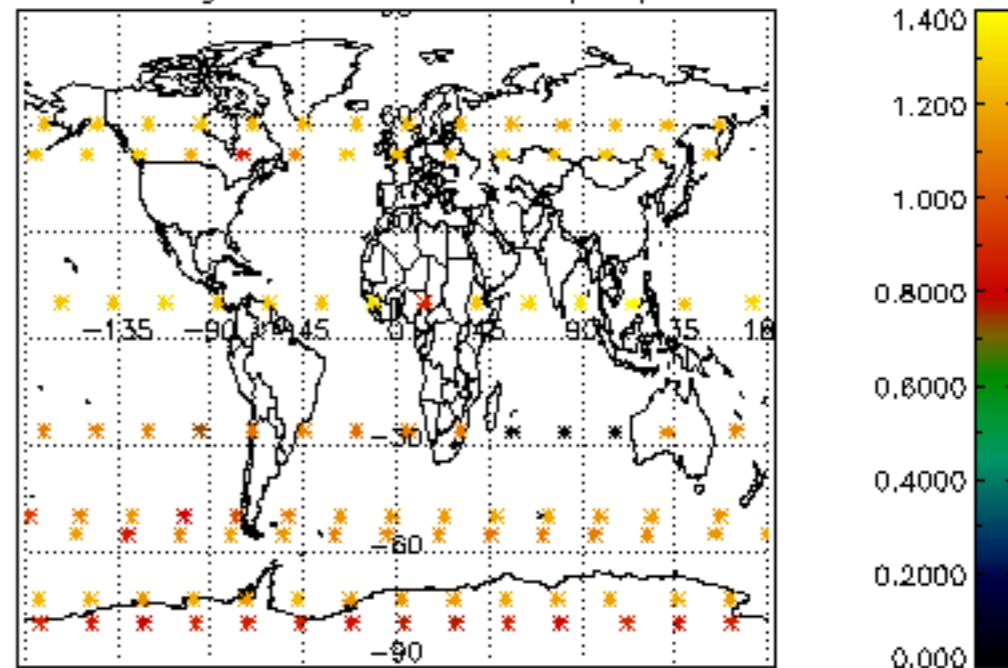
Percentage of saturation errors per profile



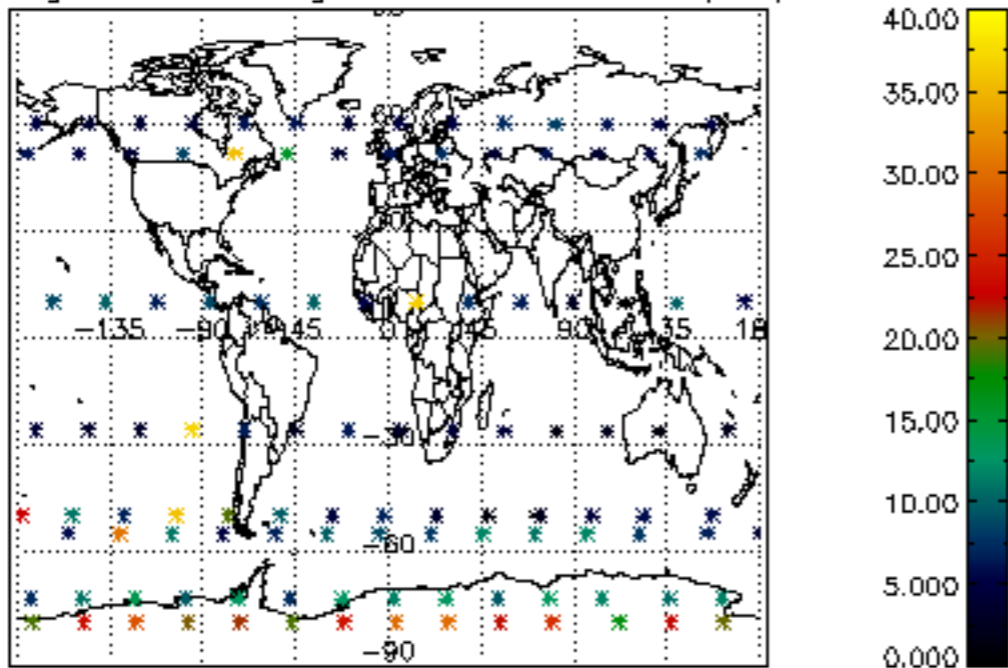
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

