

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	25APR2013 15:47:48
Data source version	GOMOS/6.01
Start time of products	05-06-2008 (05JUN2008 00:00:00)
Stop time of products	06-06-2008 (06JUN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	309
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

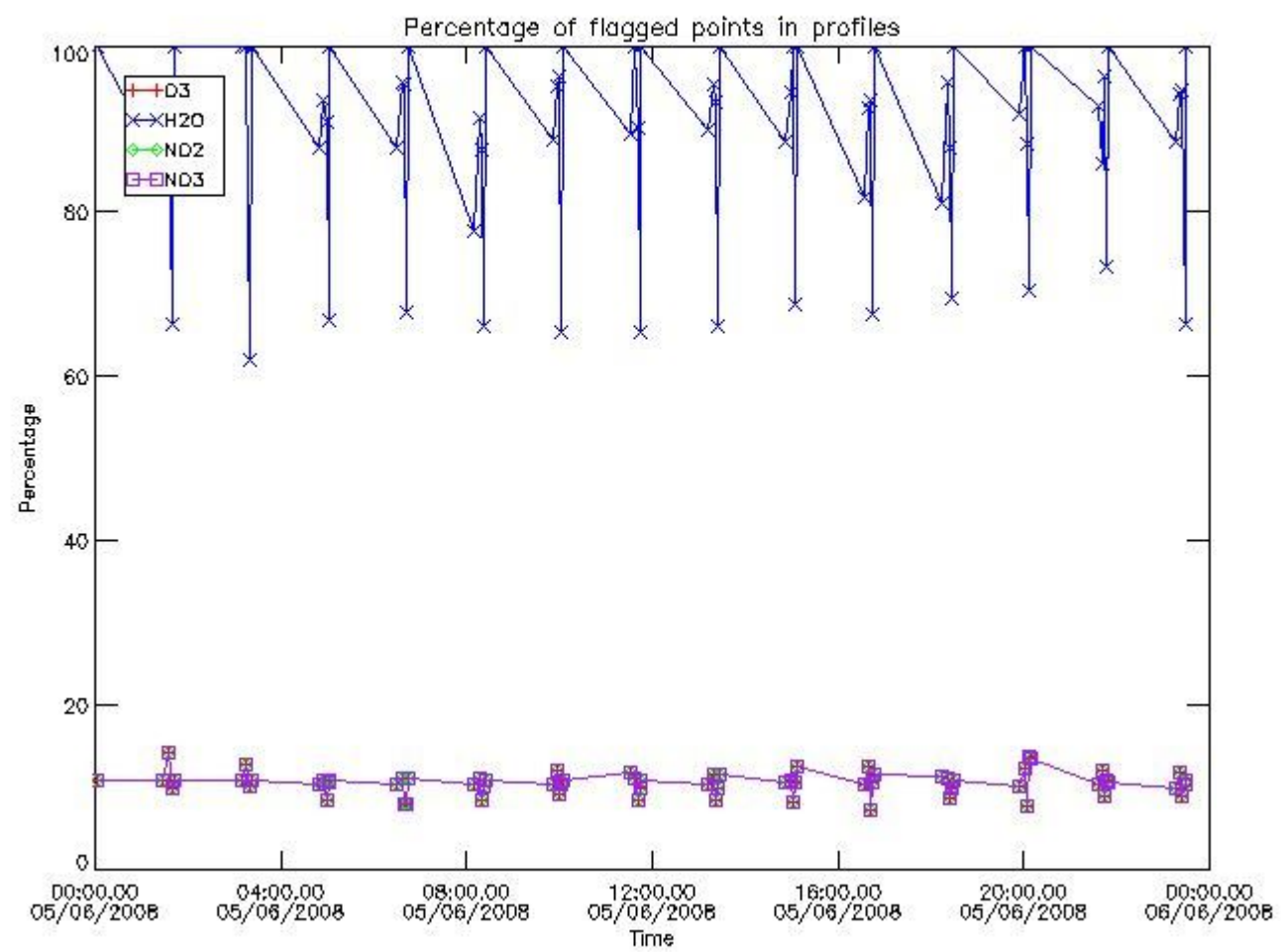
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20080605_000129_000000472069_00131_32750_5243.N1	05-JUN-2008 00:01:29	Dark	46.500	31	Alp Gru	1.7340	15200.	93	32750	No
2	GOM_NL__2PRFIN20080605_000611_000000432069_00131_32750_5244.N1	05-JUN-2008 00:06:11	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	32750	No
3	GOM_NL__2PRFIN20080605_001321_000000402069_00131_32750_5245.N1	05-JUN-2008 00:13:21	Straylight	40.000	147	Alp Ara	2.8770	26000.	80	32750	No
4	GOM_NL__2PRFIN20080605_001503_000000442069_00131_32750_5246.N1	05-JUN-2008 00:15:03	Straylight	43.500	40	The Sco	1.8590	7100.0	87	32750	No
5	GOM_NL__2PRFIN20080605_001650_000000452069_00131_32750_5247.N1	05-JUN-2008 00:16:50	Twilight	45.000	25	35Lam Sco	1.6200	28000.	90	32750	No
6	GOM_NL__2PRFIN20080605_001829_000000452069_00131_32750_5248.N1	05-JUN-2008 00:18:29	Twilight	45.000	75	26Eps Sco	2.2910	4250.0	90	32750	No
7	GOM_NL__2PRFIN20080605_002028_000000522069_00131_32750_5249.N1	05-JUN-2008 00:20:28	Bright	52.000	136	23Tau Sco	2.8220	30000.	104	32750	No
8	GOM_NL__2PRFIN20080605_002358_000000432069_00131_32750_5250.N1	05-JUN-2008 00:23:58	Bright	42.500	86	35Eta Oph	2.4300	10200.	85	32750	No
9	GOM_NL__2PRFIN20080605_002547_000000392069_00131_32750_5251.N1	05-JUN-2008 00:25:47	Bright	38.500	98	13Zet Oph	2.5710	30000.	77	32750	No
10	GOM_NL__2PRFIN20080605_002756_000000382069_00131_32750_5252.N1	05-JUN-2008 00:27:56	Bright	38.000	120	1Del Oph	2.7340	3200.0	76	32750	No
11	GOM_NL__2PRFIN20080605_003056_000000362069_00131_32750_5253.N1	05-JUN-2008 00:30:56	Bright	35.500	102	24Alp Ser	2.6000	4250.0	71	32750	No
12	GOM_NL__2PRFIN20080605_003544_000000412069_00131_32750_5254.N1	05-JUN-2008 00:35:44	Bright	40.500	127	27Bet Her	2.7810	4700.0	81	32750	No
13	GOM_NL__2PRFIN20080605_003903_000000422069_00131_32750_5255.N1	05-JUN-2008 00:39:03	Bright	41.500	133	40Zet Her	2.8070	6000.0	83	32750	No
14	GOM_NL__2PRFIN20080605_004621_000000412069_00131_32750_5256.N1	05-JUN-2008 00:46:21	Bright	41.000	130	23Bet Dra	2.7990	5800.0	82	32750	No
15	GOM_NL__2PRFIN20080605_005713_000000472069_00131_32750_5257.N1	05-JUN-2008 00:57:13	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	32750	No
16	GOM_NL__2PRFIN20080605_010243_000000382069_00131_32750_5258.N1	05-JUN-2008 01:02:43	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	32750	No
17	GOM_NL__2PRFIN20080605_010822_000000342069_00131_32750_5259.N1	05-JUN-2008 01:08:22	Bright	34.000	73	57Gam1And	2.2600	13100.	68	32750	No
18	GOM_NL__2PRFIN20080605_011041_000000502069_00131_32750_5260.N1	05-JUN-2008 01:10:41	Bright	50.000	53	43Bet And	2.0480	3300.0	100	32750	No
19	GOM_NL__2PRFIN20080605_011446_000000422069_00131_32750_5261.N1	05-JUN-2008 01:14:46	Twilight	42.000	105	6Bet Ari	2.6450	8900.0	84	32750	No
20	GOM_NL__2PRFIN20080605_012754_000000522069_00131_32750_5262.N1	05-JUN-2008 01:27:54	Dark	51.500	52	16Bet Cet	2.0370	4500.0	103	32750	No
21	GOM_NL__2PRFIN20080605_013431_000000432069_00131_32750_5263.N1	05-JUN-2008 01:34:31	Dark	43.000	84	Alp Phe	2.3970	4500.0	86	32750	No
22	GOM_NL__2PRFIN20080605_014009_000000512069_00132_32751_5258.N1	05-JUN-2008 01:40:09	Dark	51.000	63	Bet Gru	2.1500	2800.0	102	32751	No
23	GOM_NL__2PRFIN20080605_014206_000000472069_00132_32751_5259.N1	05-JUN-2008 01:42:06	Dark	46.500	31	Alp Gru	1.7340	15200.	93	32751	No
24	GOM_NL__2PRFIN20080605_014647_000000442069_00132_32751_5260.N1	05-JUN-2008 01:46:47	Straylight	43.500	45	Alp Pav	1.9400	26000.	87	32751	No
25	GOM_NL__2PRFIN20080605_015357_000000402069_00132_32751_5261.N1	05-JUN-2008 01:53:57	Straylight	40.000	147	Alp Ara	2.8770	26000.	80	32751	No
26	GOM_NL__2PRFIN20080605_015540_000000432069_00132_32751_5262.N1	05-JUN-2008 01:55:40	Straylight	42.500	40	The Sco	1.8590	7100.0	85	32751	No
27	GOM_NL__2PRFIN20080605_015726_000000462069_00132_32751_5263.N1	05-JUN-2008 01:57:26	Twilight	45.500	25	35Lam Sco	1.6200	28000.	91	32751	No
28	GOM_NL__2PRFIN20080605_015906_000000442069_00132_32751_5264.N1	05-JUN-2008 01:59:06	Twilight	44.000	75	26Eps Sco	2.2910	4250.0	88	32751	No
29	GOM_NL__2PRFIN20080605_020104_000000482069_00132_32751_5265.N1	05-JUN-2008 02:01:04	Bright	48.000	136	23Tau Sco	2.8220	30000.	96	32751	No
30	GOM_NL__2PRFIN20080605_020434_000000422069_00132_32751_5266.N1	05-JUN-2008 02:04:34	Bright	42.000	86	35Eta Oph	2.4300	10200.	84	32751	No
31	GOM_NL__2PRFIN20080605_020623_000000392069_00132_32751_5267.N1	05-JUN-2008 02:06:23	Bright	39.000	98	13Zet Oph	2.5710	30000.	78	32751	No
32	GOM_NL__2PRFIN20080605_020831_000000382069_00132_32751_5268.N1	05-JUN-2008 02:08:31	Bright	38.000	120	1Del Oph	2.7340	3200.0	76	32751	No
33	GOM_NL__2PRFIN20080605_021134_000000342069_00132_32751_5269.N1	05-JUN-2008 02:11:34	Bright	33.500	102	24Alp Ser	2.6000	4250.0	67	32751	No
34	GOM_NL__2PRFIN20080605_021620_000000592069_00132_32751_5270.N1	05-JUN-2008 02:16:20	Bright	59.000	127	27Bet Her	2.7810	4700.0	118	32751	No
35	GOM_NL__2PRFIN20080605_021938_000000522069_00132_32751_5271.N1	05-JUN-2008 02:19:38	Bright	51.500	133	40Zet Her	2.8070	6000.0	103	32751	No
36	GOM_NL__2PRFIN20080605_022656_000000412069_00132_32751_5272.N1	05-JUN-2008 02:26:56	Bright	41.000	130	23Bet Dra	2.7990	5800.0	82	32751	No
37	GOM_NL__2PRFIN20080605_023748_000000462069_00132_32751_5273.N1	05-JUN-2008 02:37:48	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	32751	No
38	GOM_NL__2PRFIN20080605_024319_000000372069_00132_32751_5274.N1	05-JUN-2008 02:43:19	Bright	37.000	76	27Gam Cas	2.3000	30000.	74	32751	No
39	GOM_NL__2PRFIN20080605_024858_000000372069_00132_32751_5275.N1	05-JUN-2008 02:48:58	Bright	36.500	73	57Gam1And	2.2600	13100.	73	32751	No
40	GOM_NL__2PRFIN20080605_025117_000000482069_00132_32751_5276.N1	05-JUN-2008 02:51:17	Bright	47.500	53	43Bet And	2.0480	3300.0	95	32751	No
41	GOM_NL__2PRFIN20080605_025522_000000412069_00132_32751_5277.N1	05-JUN-2008 02:55:22	Twilight	40.500	105	6Bet Ari	2.6450	8900.0	81	32751	No
42	GOM_NL__2PRFIN20080605_030831_000000472069_00132_32751_5278.N1	05-JUN-2008 03:08:31	Dark	47.000	52	16Bet Cet	2.0370	4500.0	94	32751	No

279	GOM_NL__2PRFIN20080605_214731_000000472069_00144_32763_5594.N1	05-JUN-2008 21:47:31	Dark	47.000	63	Bet Gru	2.1500	2800.0	94	32763	No
280	GOM_NL__2PRFIN20080605_214929_000000482069_00144_32763_5595.N1	05-JUN-2008 21:49:29	Dark	48.000	31	Alp Gru	1.7340	15200.	96	32763	No
281	GOM_NL__2PRFIN20080605_215407_000000432069_00144_32763_5596.N1	05-JUN-2008 21:54:07	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	32763	No
282	GOM_NL__2PRFIN20080605_220256_000000472069_00144_32763_5597.N1	05-JUN-2008 22:02:56	Straylight	47.000	40	The Sco	1.8590	7100.0	94	32763	No
283	GOM_NL__2PRFIN20080605_220442_000000472069_00144_32763_5598.N1	05-JUN-2008 22:04:42	Tw_i_and_stray	46.500	25	35Lam Sco	1.6200	28000.	93	32763	No
284	GOM_NL__2PRFIN20080605_220620_000000452069_00144_32763_5599.N1	05-JUN-2008 22:06:20	Tw_i_and_stray	45.000	75	26Eps Sco	2.2910	4250.0	90	32763	No
285	GOM_NL__2PRFIN20080605_220818_000000412069_00144_32763_5600.N1	05-JUN-2008 22:08:18	Bright	41.000	136	23Tau Sco	2.8220	30000.	82	32763	No
286	GOM_NL__2PRFIN20080605_221147_000000432069_00144_32763_5601.N1	05-JUN-2008 22:11:47	Bright	43.000	86	35Eta Oph	2.4300	10200.	86	32763	No
287	GOM_NL__2PRFIN20080605_221335_000000392069_00144_32763_5602.N1	05-JUN-2008 22:13:35	Bright	38.500	98	13Zet Oph	2.5710	30000.	77	32763	No
288	GOM_NL__2PRFIN20080605_221543_000000382069_00144_32763_5603.N1	05-JUN-2008 22:15:43	Bright	37.500	120	1Del Oph	2.7340	3200.0	75	32763	No
289	GOM_NL__2PRFIN20080605_222328_000000392069_00144_32763_5604.N1	05-JUN-2008 22:23:28	Bright	38.500	127	27Bet Her	2.7810	4700.0	77	32763	No
290	GOM_NL__2PRFIN20080605_222645_000000402069_00144_32763_5605.N1	05-JUN-2008 22:26:45	Bright	40.000	133	40Zet Her	2.8070	6000.0	80	32763	No
291	GOM_NL__2PRFIN20080605_223401_000000442069_00144_32763_5606.N1	05-JUN-2008 22:34:01	Bright	44.000	130	23Bet Dra	2.7990	5800.0	88	32763	No
292	GOM_NL__2PRFIN20080605_224452_000000472069_00144_32763_5607.N1	05-JUN-2008 22:44:52	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	32763	No
293	GOM_NL__2PRFIN20080605_225029_000000572069_00144_32763_5608.N1	05-JUN-2008 22:50:29	Bright	57.000	76	27Gam Cas	2.3000	30000.	114	32763	No
294	GOM_NL__2PRFIN20080605_225611_000000352069_00144_32763_5609.N1	05-JUN-2008 22:56:11	Bright	34.500	73	57Gam1And	2.2600	13100.	69	32763	No
295	GOM_NL__2PRFIN20080605_225829_000000472069_00144_32763_5610.N1	05-JUN-2008 22:58:29	Bright	47.000	53	43Bet And	2.0480	3300.0	94	32763	No
296	GOM_NL__2PRFIN20080605_230236_000000392069_00144_32763_5611.N1	05-JUN-2008 23:02:36	Twilight	39.000	105	6Bet Ari	2.6450	8900.0	78	32763	No
297	GOM_NL__2PRFIN20080605_231551_000000522069_00144_32763_5612.N1	05-JUN-2008 23:15:51	Dark	52.000	52	16Bet Cet	2.0370	4500.0	104	32763	No
298	GOM_NL__2PRFIN20080605_232227_000000442069_00144_32763_5613.N1	05-JUN-2008 23:22:27	Dark	43.500	84	Alp Phe	2.3970	4500.0	87	32763	No
299	GOM_NL__2PRFIN20080605_232522_000000572069_00144_32763_5614.N1	05-JUN-2008 23:25:22	Dark	57.000	18	24Alp PsA	1.1660	9700.0	114	32763	No
300	GOM_NL__2PRFIN20080605_232808_000000502069_00145_32764_5609.N1	05-JUN-2008 23:28:08	Dark	49.500	63	Bet Gru	2.1500	2800.0	99	32764	No
301	GOM_NL__2PRFIN20080605_233005_000000472069_00145_32764_5610.N1	05-JUN-2008 23:30:05	Dark	46.500	31	Alp Gru	1.7340	15200.	93	32764	No
302	GOM_NL__2PRFIN20080605_233443_000000442069_00145_32764_5611.N1	05-JUN-2008 23:34:43	Straylight	43.500	45	Alp Pav	1.9400	26000.	87	32764	No
303	GOM_NL__2PRFIN20080605_234332_000000452069_00145_32764_5612.N1	05-JUN-2008 23:43:32	Straylight	45.000	40	The Sco	1.8590	7100.0	90	32764	No
304	GOM_NL__2PRFIN20080605_234518_000000462069_00145_32764_5613.N1	05-JUN-2008 23:45:18	Tw_i_and_stray	45.500	25	35Lam Sco	1.6200	28000.	91	32764	No
305	GOM_NL__2PRFIN20080605_234656_000000442069_00145_32764_5614.N1	05-JUN-2008 23:46:56	Tw_i_and_stray	44.000	75	26Eps Sco	2.2910	4250.0	88	32764	No
306	GOM_NL__2PRFIN20080605_234854_000000462069_00145_32764_5615.N1	05-JUN-2008 23:48:54	Bright	46.000	136	23Tau Sco	2.8220	30000.	92	32764	No
307	GOM_NL__2PRFIN20080605_235223_000000432069_00145_32764_5616.N1	05-JUN-2008 23:52:23	Bright	42.500	86	35Eta Oph	2.4300	10200.	85	32764	No
308	GOM_NL__2PRFIN20080605_235411_000000392069_00145_32764_5617.N1	05-JUN-2008 23:54:11	Bright	38.500	98	13Zet Oph	2.5710	30000.	77	32764	No
309	GOM_NL__2PRFIN20080605_235619_000000382069_00145_32764_5618.N1	05-JUN-2008 23:56:19	Bright	37.500	120	1Del Oph	2.7340	3200.0	75	32764	No

3. Quality information per product

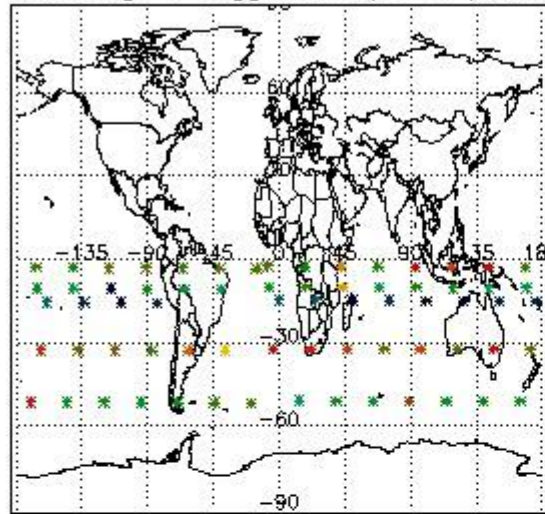
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

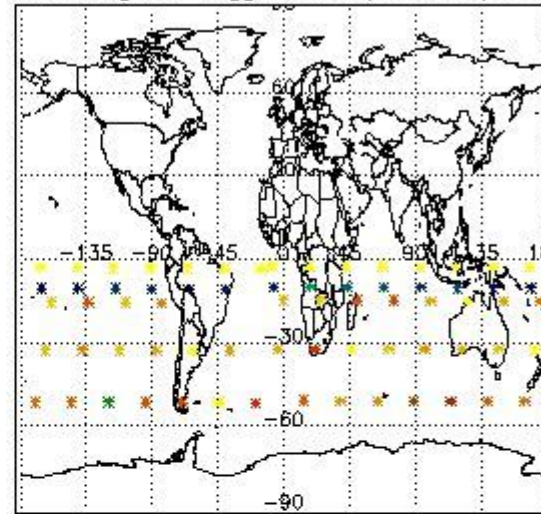


3.2 Plot quality information per product (world map)

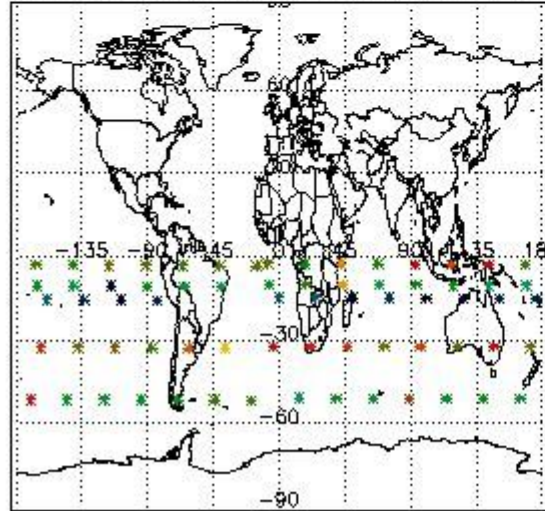
Percentage of flagged data per O3 profile



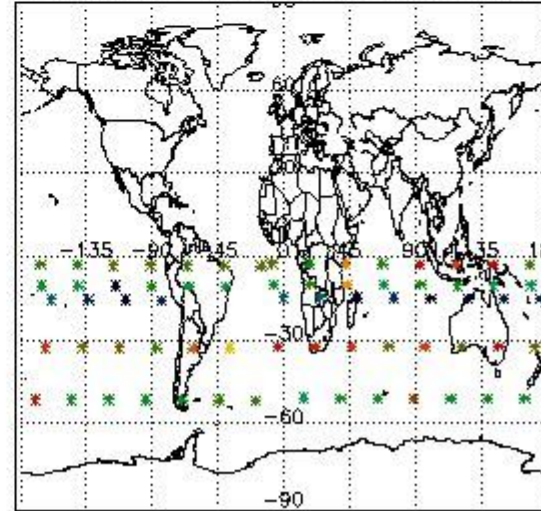
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

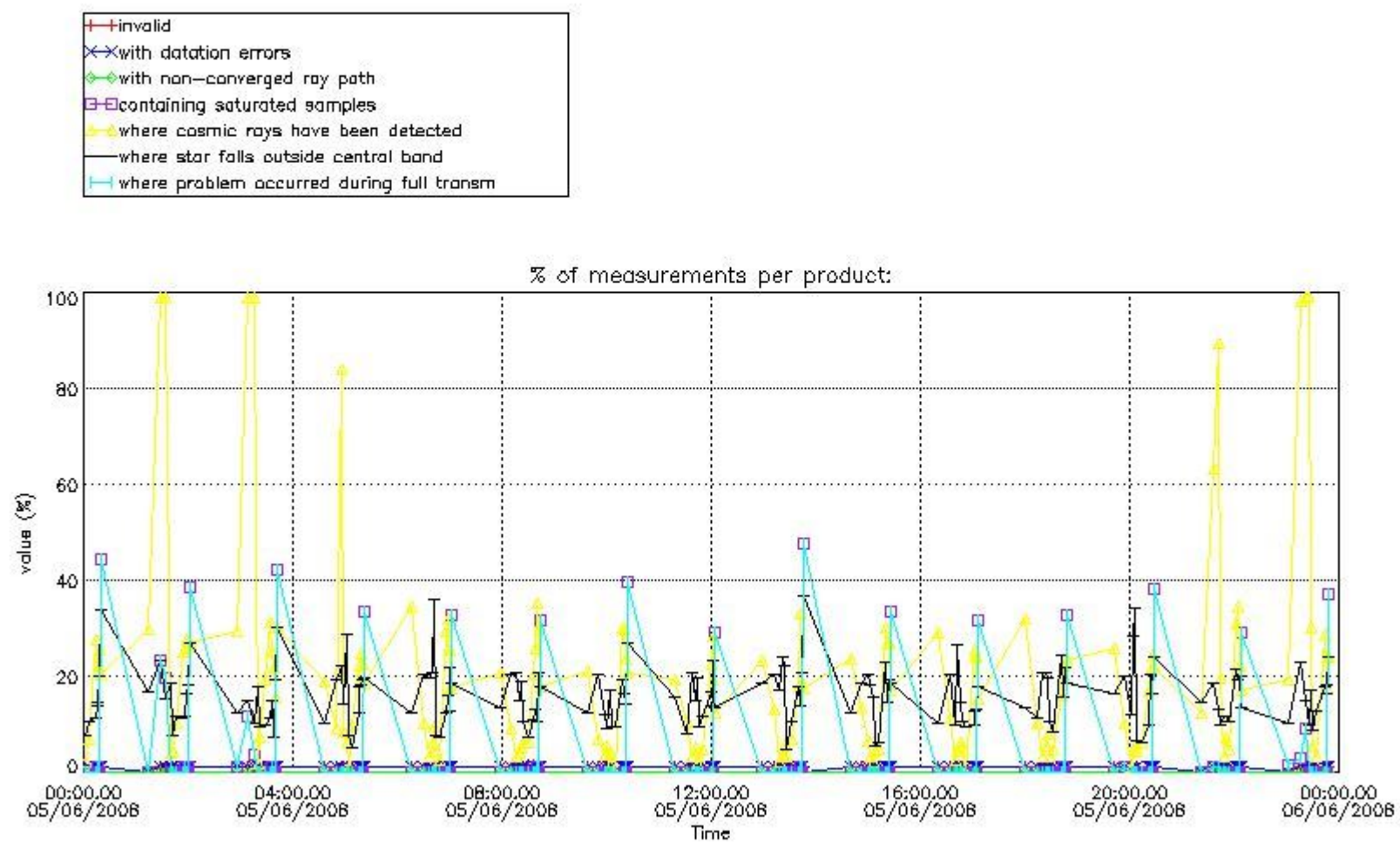


4. Level 1 quality information per product

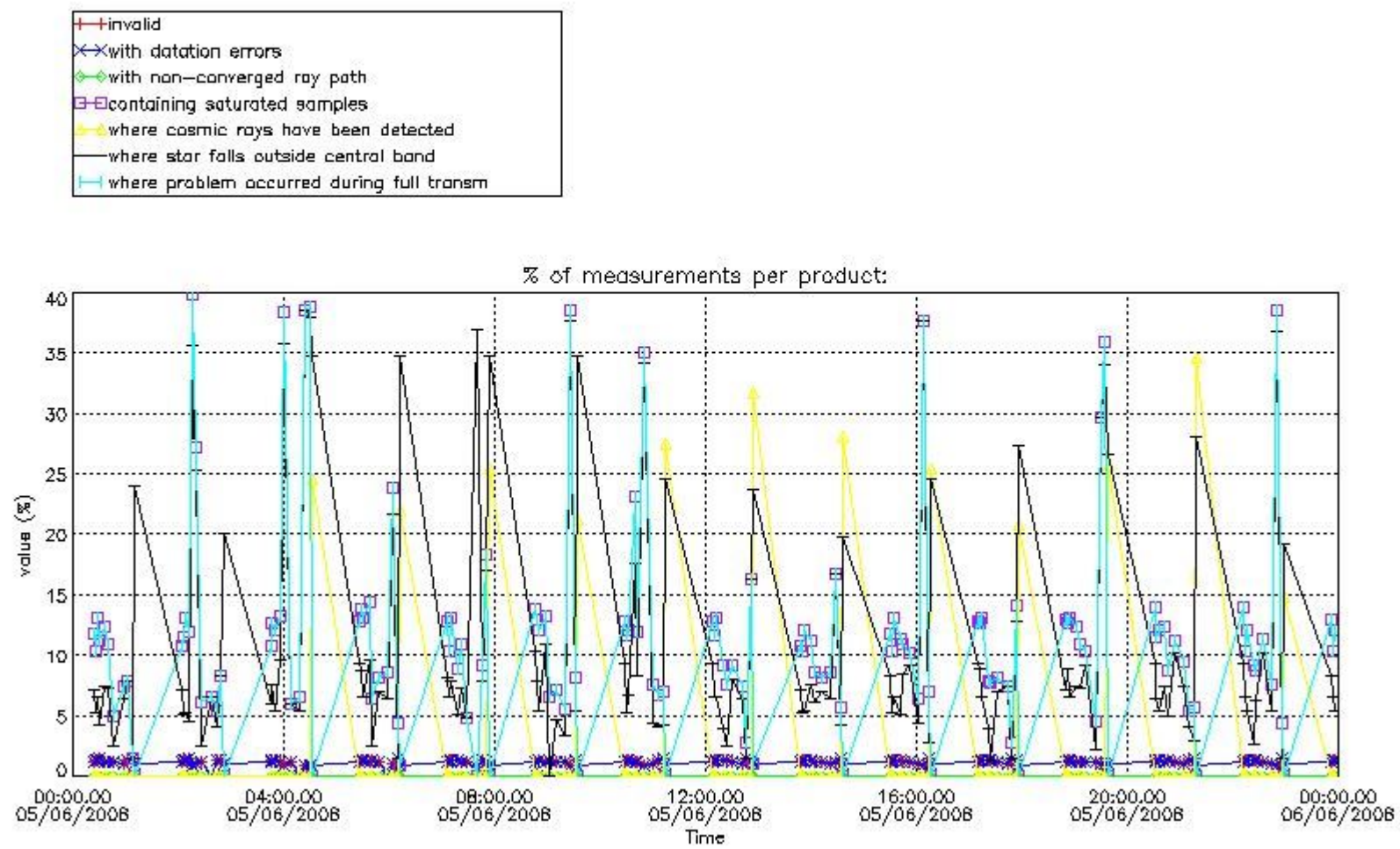
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

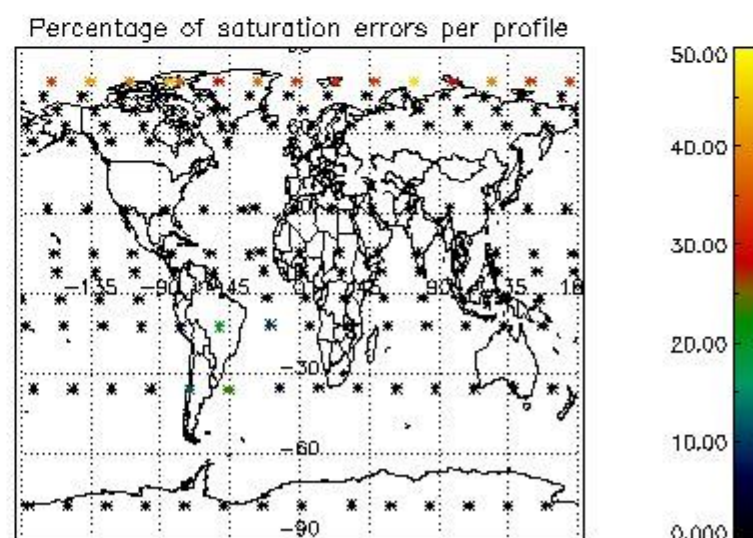
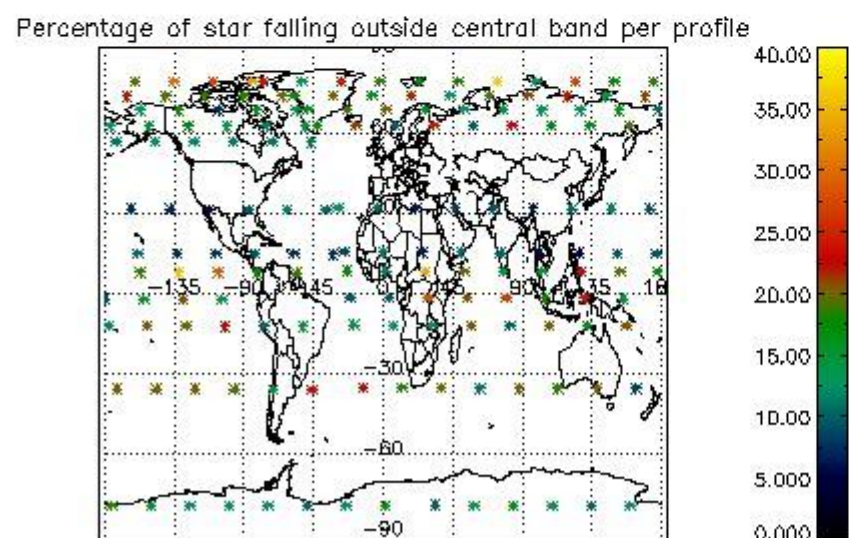
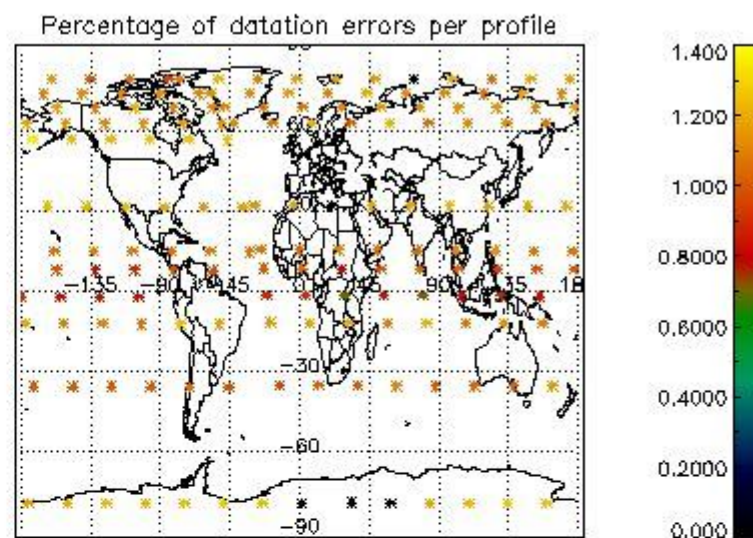
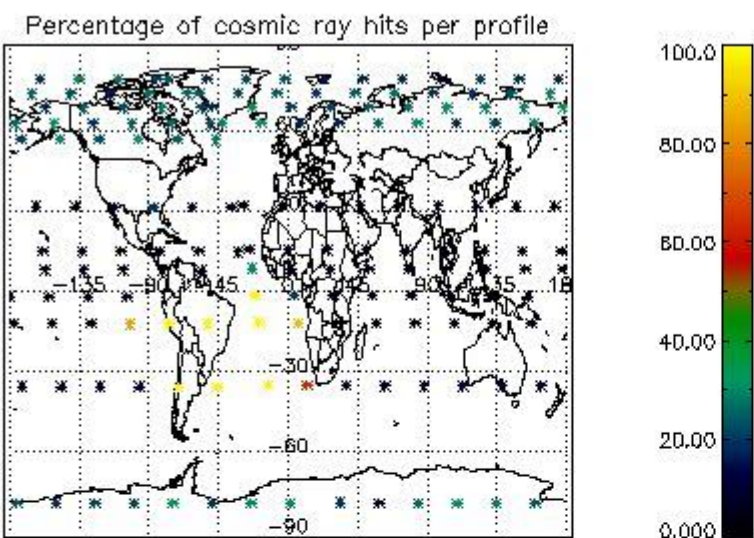


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

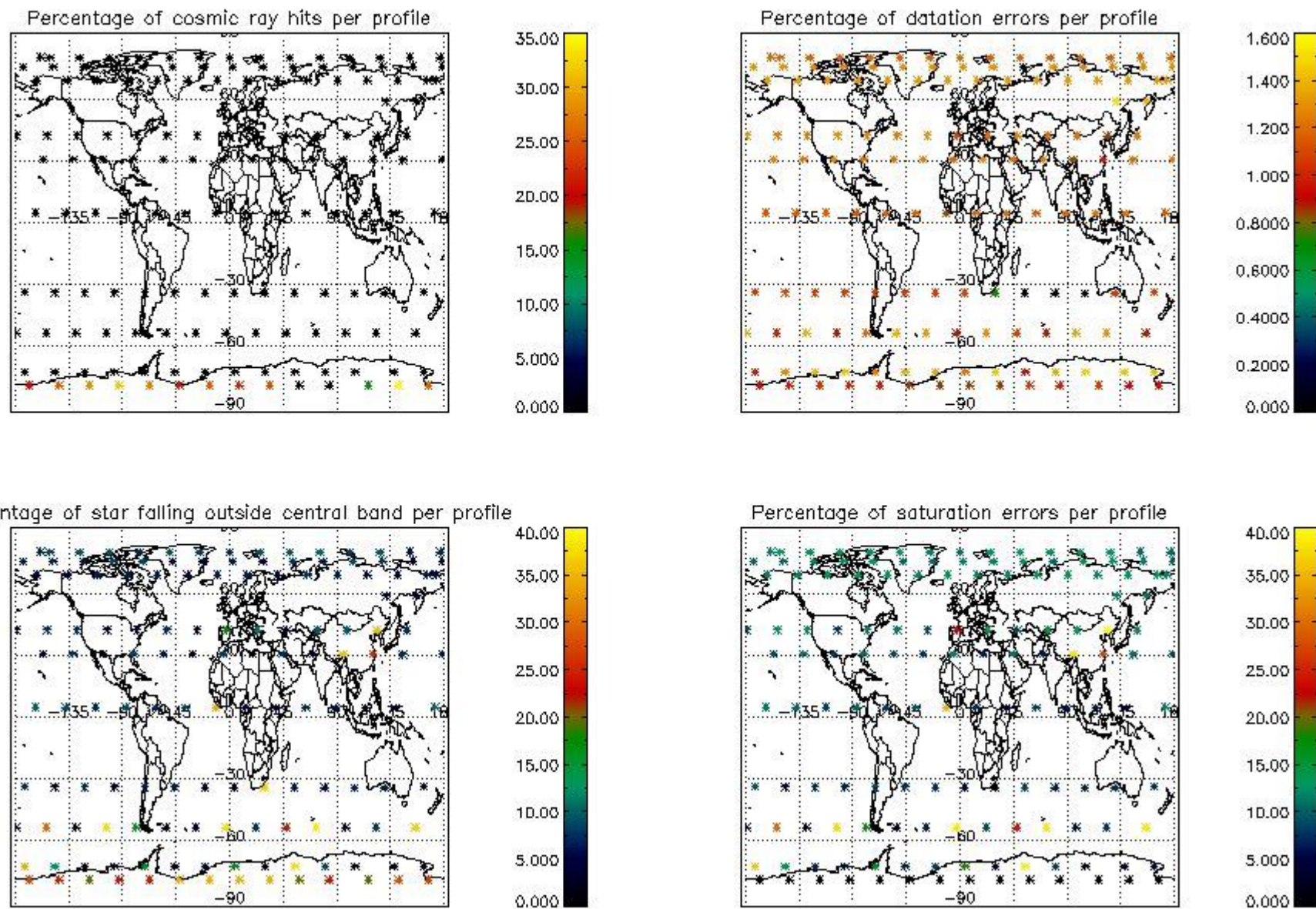


4.2 Plot quality information per product coming from level 1b processing (world map)

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

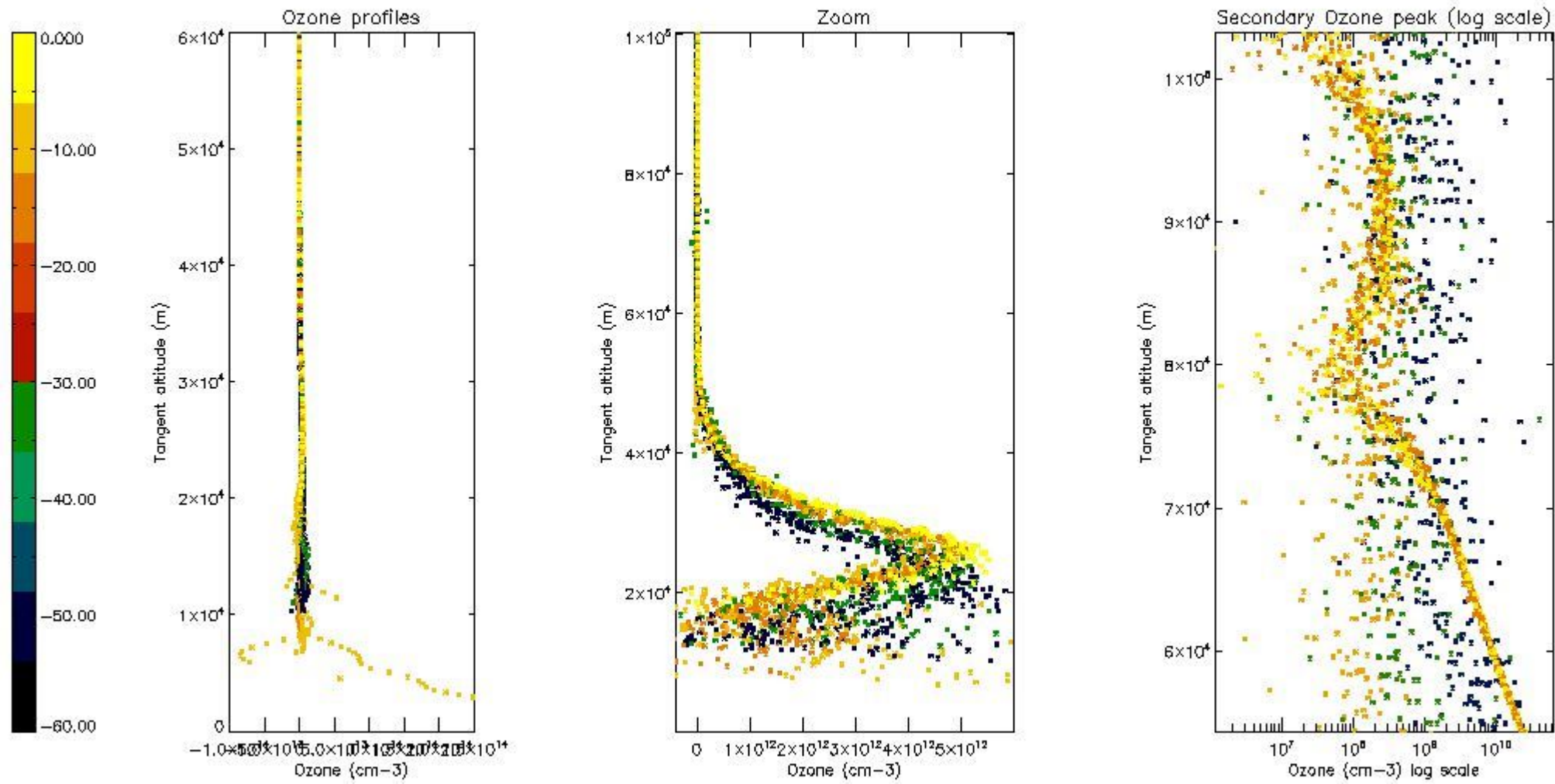
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	26
STD < 20	11

STD < 10	7
STD < 5	5

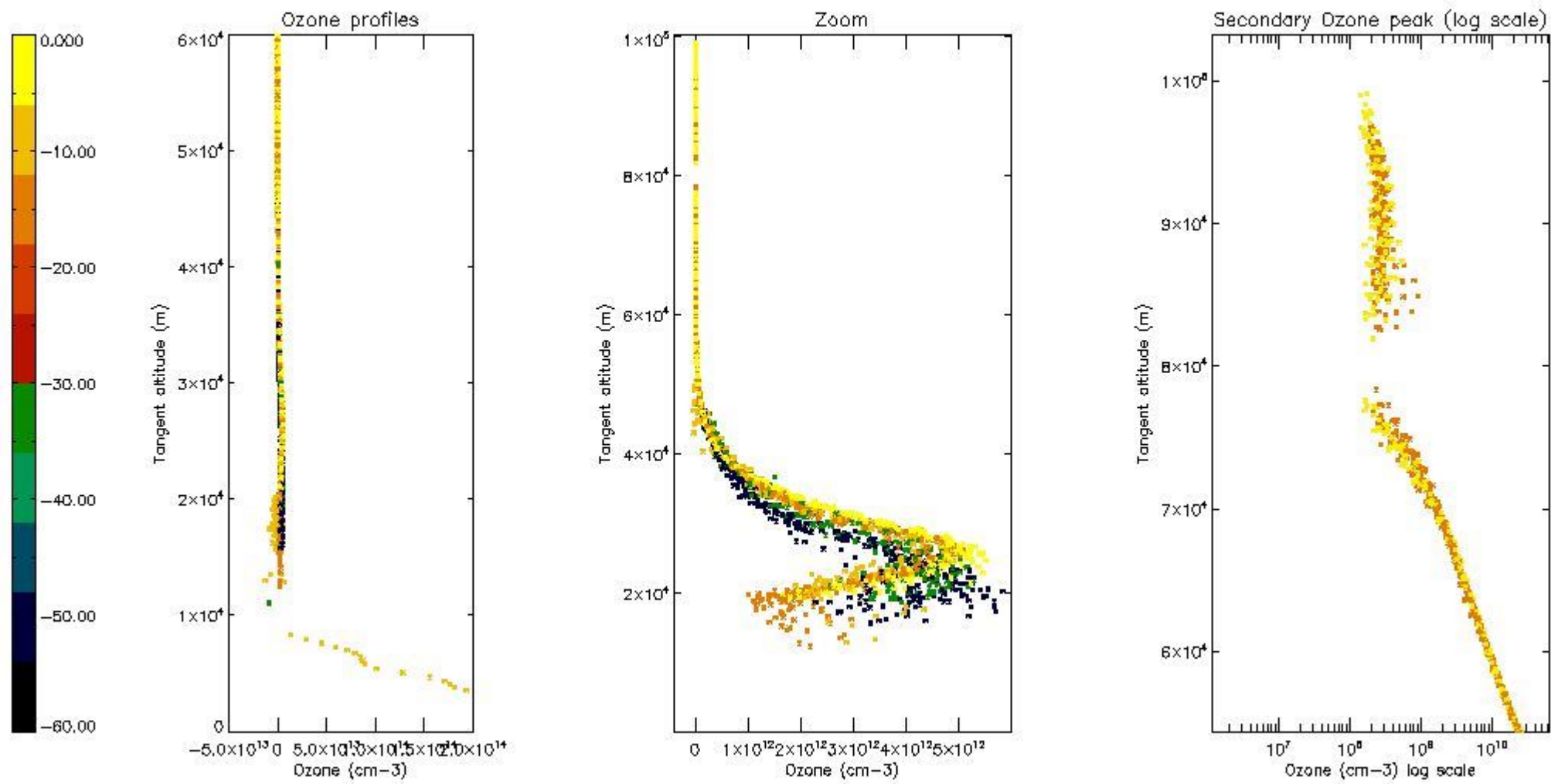
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



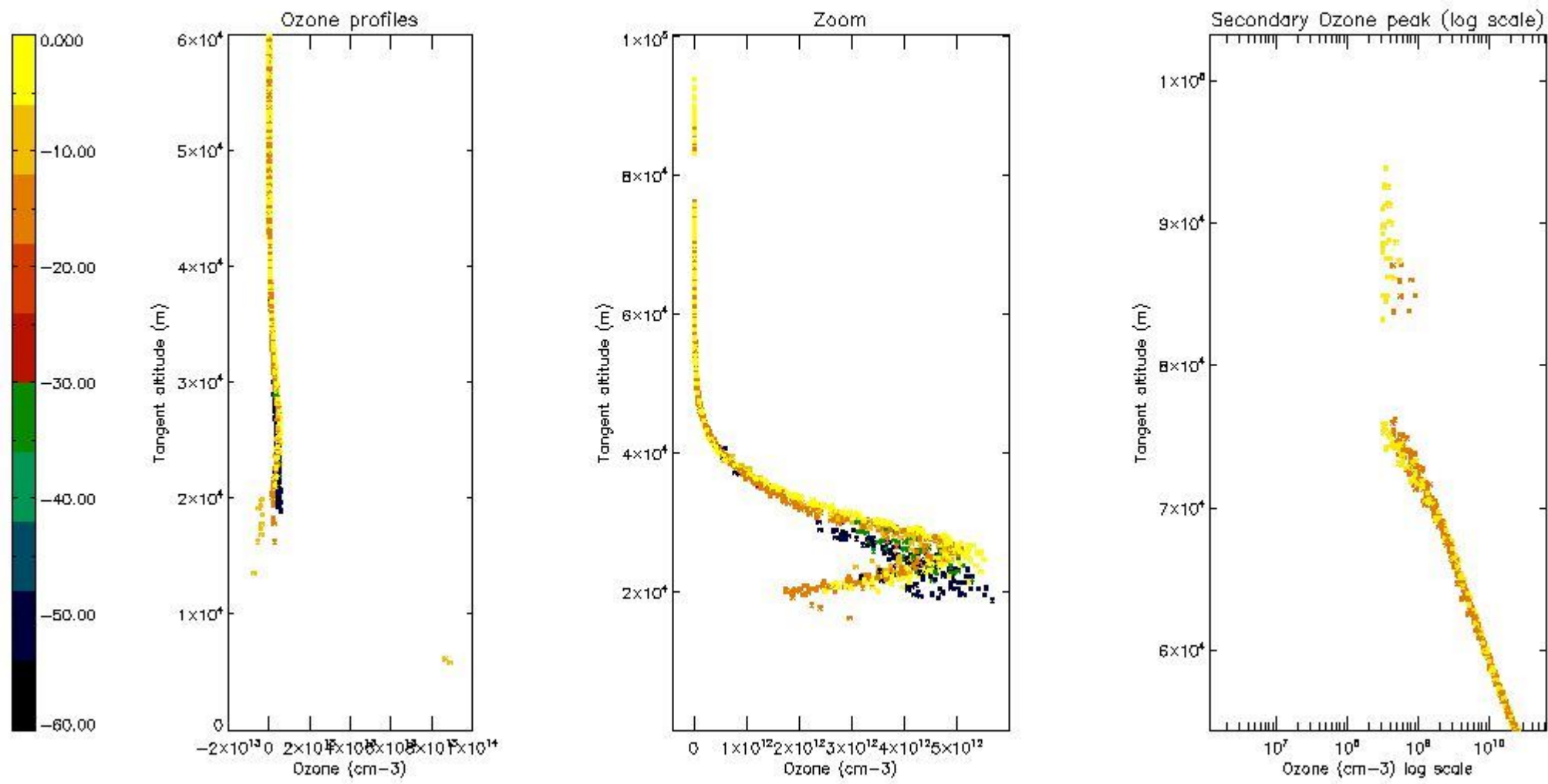
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



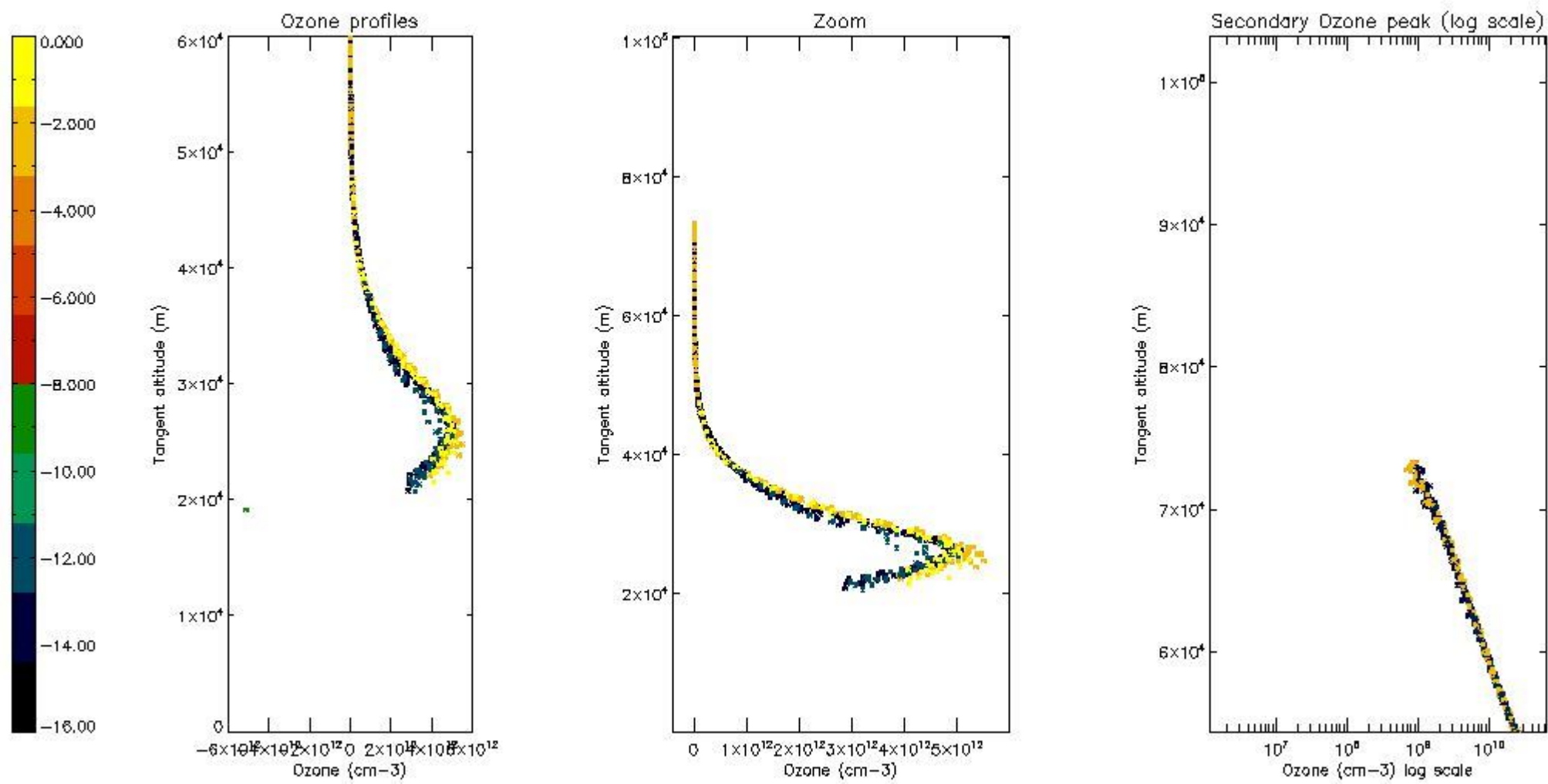
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



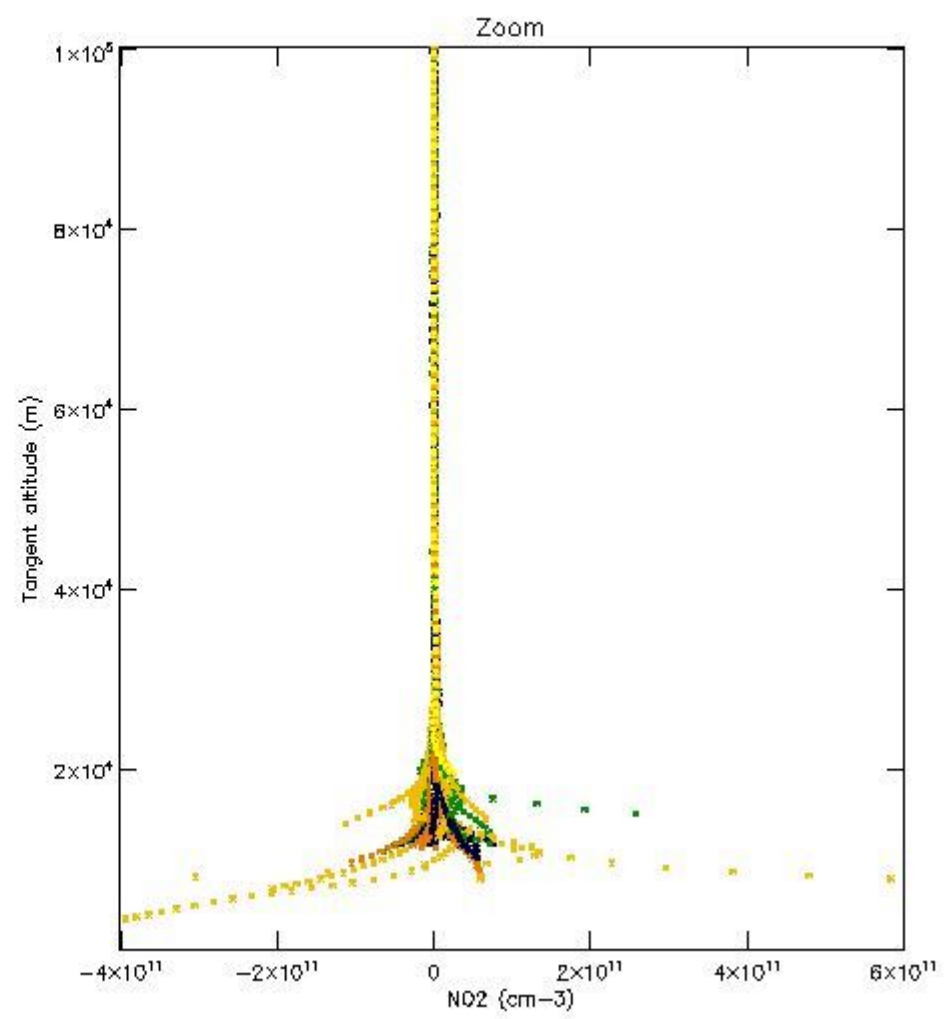
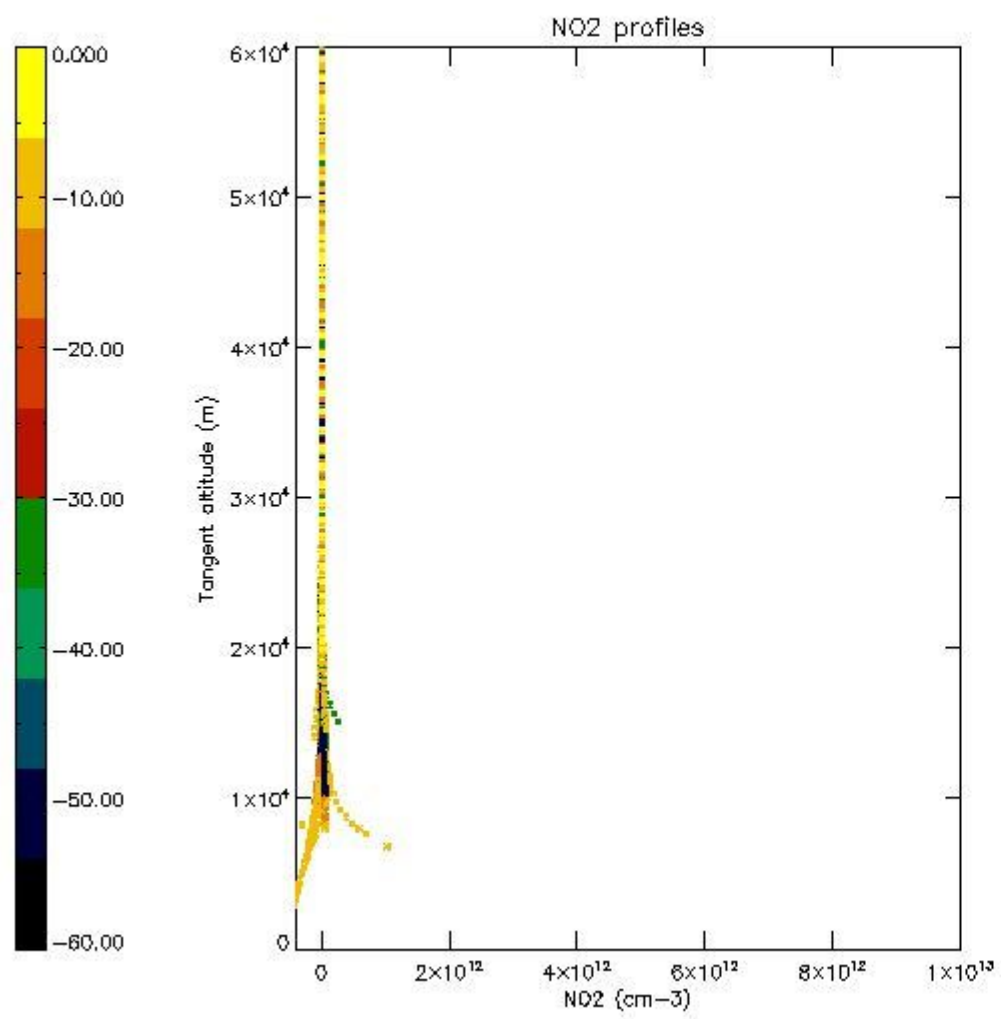
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



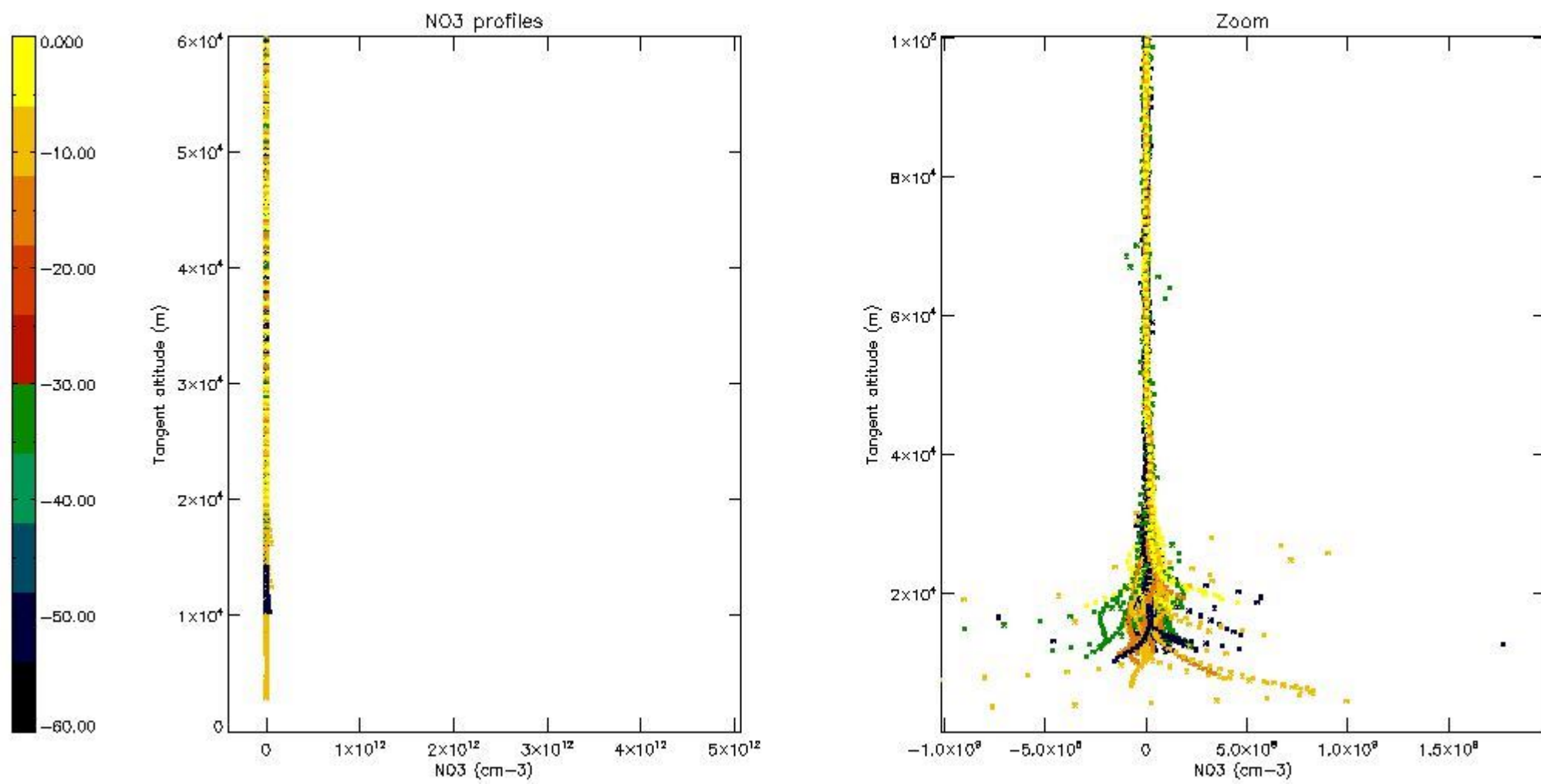
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



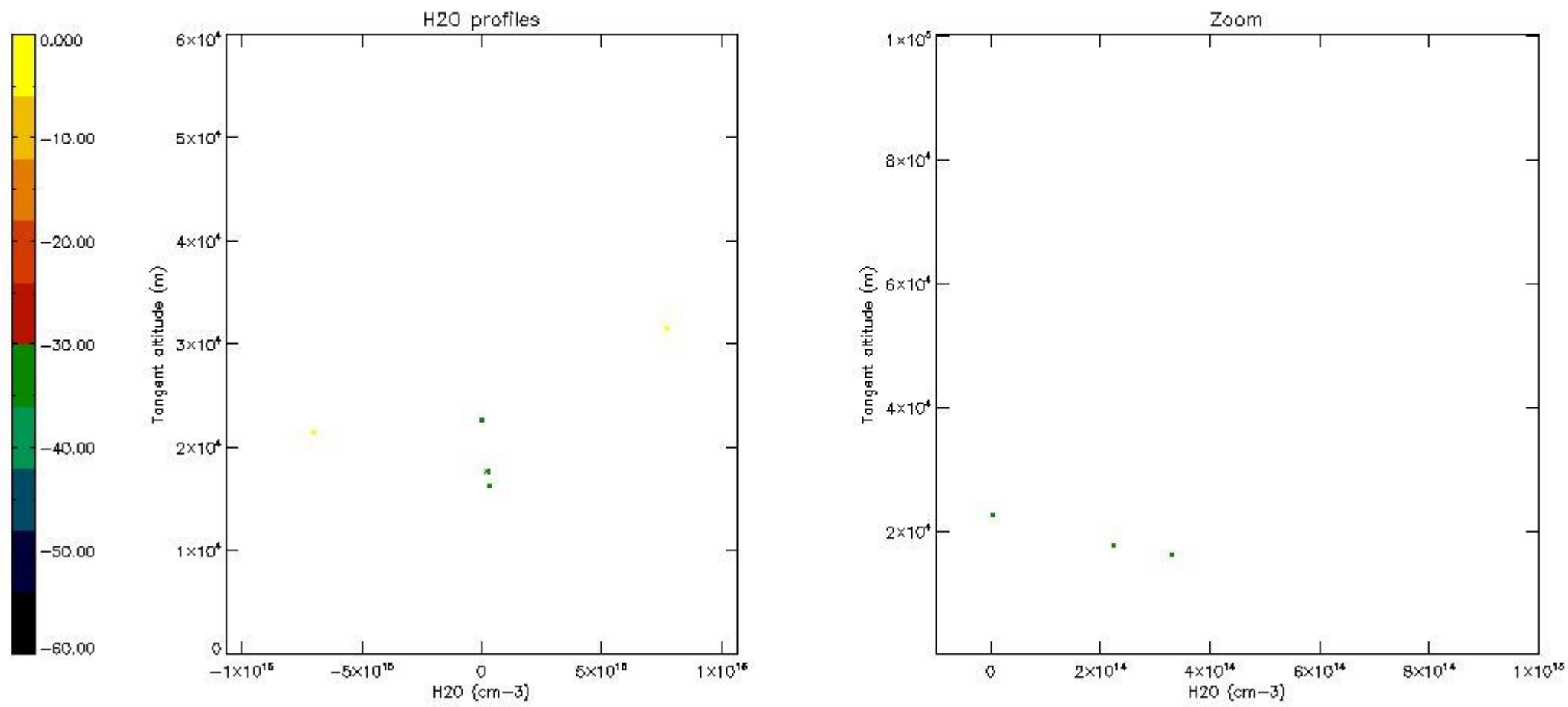
5.7 Plot NO3 profiles for all STD (dark without errors)

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	05-JUN-2008 00:01:29
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	05-JUN-2008 00:01:29
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	05-JUN-2008 00:01:29

GOMOS Level 2 Daily Report

SUMMARY

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

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

[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	25APR2013 15:47:48
Data source version	GOMOS/6.01
Start time of products	05-06-2008 (05JUN2008 00:00:00)
Stop time of products	06-06-2008 (06JUN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	309
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__2PRFIN20080605_000129_000000472069_00131_32750_5243.N1	05-JUN-2008 00:01:29	Dark	46.500	31	Alp Gru	1.7340	15200.	93	32750	No
2	GOM_NL__2PRFIN20080605_000611_000000432069_00131_32750_5244.N1	05-JUN-2008 00:06:11	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	32750	No
3	GOM_NL__2PRFIN20080605_001321_000000402069_00131_32750_5245.N1	05-JUN-2008 00:13:21	Straylight	40.000	147	Alp Ara	2.8770	26000.	80	32750	No
4	GOM_NL__2PRFIN20080605_001503_000000442069_00131_32750_5246.N1	05-JUN-2008 00:15:03	Straylight	43.500	40	The Sco	1.8590	7100.0	87	32750	No
5	GOM_NL__2PRFIN20080605_001650_000000452069_00131_32750_5247.N1	05-JUN-2008 00:16:50	Twilight	45.000	25	35Lam Sco	1.6200	28000.	90	32750	No
6	GOM_NL__2PRFIN20080605_001829_000000452069_00131_32750_5248.N1	05-JUN-2008 00:18:29	Twilight	45.000	75	26Eps Sco	2.2910	4250.0	90	32750	No
7	GOM_NL__2PRFIN20080605_002028_000000522069_00131_32750_5249.N1	05-JUN-2008 00:20:28	Bright	52.000	136	23Tau Sco	2.8220	30000.	104	32750	No
8	GOM_NL__2PRFIN20080605_002358_000000432069_00131_32750_5250.N1	05-JUN-2008 00:23:58	Bright	42.500	86	35Eta Oph	2.4300	10200.	85	32750	No
9	GOM_NL__2PRFIN20080605_002547_000000392069_00131_32750_5251.N1	05-JUN-2008 00:25:47	Bright	38.500	98	13Zet Oph	2.5710	30000.	77	32750	No
10	GOM_NL__2PRFIN20080605_002756_000000382069_00131_32750_5252.N1	05-JUN-2008 00:27:56	Bright	38.000	120	1Del Oph	2.7340	3200.0	76	32750	No
11	GOM_NL__2PRFIN20080605_003056_000000362069_00131_32750_5253.N1	05-JUN-2008 00:30:56	Bright	35.500	102	24Alp Ser	2.6000	4250.0	71	32750	No
12	GOM_NL__2PRFIN20080605_003544_000000412069_00131_32750_5254.N1	05-JUN-2008 00:35:44	Bright	40.500	127	27Bet Her	2.7810	4700.0	81	32750	No
13	GOM_NL__2PRFIN20080605_003903_000000422069_00131_32750_5255.N1	05-JUN-2008 00:39:03	Bright	41.500	133	40Zet Her	2.8070	6000.0	83	32750	No
14	GOM_NL__2PRFIN20080605_004621_000000412069_00131_32750_5256.N1	05-JUN-2008 00:46:21	Bright	41.000	130	23Bet Dra	2.7990	5800.0	82	32750	No
15	GOM_NL__2PRFIN20080605_005713_000000472069_00131_32750_5257.N1	05-JUN-2008 00:57:13	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	32750	No
16	GOM_NL__2PRFIN20080605_010243_000000382069_00131_32750_5258.N1	05-JUN-2008 01:02:43	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	32750	No
17	GOM_NL__2PRFIN20080605_010822_000000342069_00131_32750_5259.N1	05-JUN-2008 01:08:22	Bright	34.000	73	57Gam1And	2.2600	13100.	68	32750	No
18	GOM_NL__2PRFIN20080605_011041_000000502069_00131_32750_5260.N1	05-JUN-2008 01:10:41	Bright	50.000	53	43Bet And	2.0480	3300.0	100	32750	No
19	GOM_NL__2PRFIN20080605_011446_000000422069_00131_32750_5261.N1	05-JUN-2008 01:14:46	Twilight	42.000	105	6Bet Ari	2.6450	8900.0	84	32750	No
20	GOM_NL__2PRFIN20080605_012754_000000522069_00131_32750_5262.N1	05-JUN-2008 01:27:54	Dark	51.500	52	16Bet Cet	2.0370	4500.0	103	32750	No
21	GOM_NL__2PRFIN20080605_013431_000000432069_00131_32750_5263.N1	05-JUN-2008 01:34:31	Dark	43.000	84	Alp Phe	2.3970	4500.0	86	32750	No
22	GOM_NL__2PRFIN20080605_014009_000000512069_00132_32751_5258.N1	05-JUN-2008 01:40:09	Dark	51.000	63	Bet Gru	2.1500	2800.0	102	32751	No
23	GOM_NL__2PRFIN20080605_014206_000000472069_00132_32751_5259.N1	05-JUN-2008 01:42:06	Dark	46.500	31	Alp Gru	1.7340	15200.	93	32751	No
24	GOM_NL__2PRFIN20080605_014647_000000442069_00132_32751_5260.N1	05-JUN-2008 01:46:47	Straylight	43.500	45	Alp Pav	1.9400	26000.	87	32751	No
25	GOM_NL__2PRFIN20080605_015357_000000402069_00132_32751_5261.N1	05-JUN-2008 01:53:57	Straylight	40.000	147	Alp Ara	2.8770	26000.	80	32751	No
26	GOM_NL__2PRFIN20080605_015540_000000432069_00132_32751_5262.N1	05-JUN-2008 01:55:40	Straylight	42.500	40	The Sco	1.8590	7100.0	85	32751	No
27	GOM_NL__2PRFIN20080605_015726_000000462069_00132_32751_5263.N1	05-JUN-2008 01:57:26	Twilight	45.500	25	35Lam Sco	1.6200	28000.	91	32751	No
28	GOM_NL__2PRFIN20080605_015906_000000442069_00132_32751_5264.N1	05-JUN-2008 01:59:06	Twilight	44.000	75	26Eps Sco	2.2910	4250.0	88	32751	No
29	GOM_NL__2PRFIN20080605_020104_000000482069_00132_32751_5265.N1	05-JUN-2008 02:01:04	Bright	48.000	136	23Tau Sco	2.8220	30000.	96	32751	No
30	GOM_NL__2PRFIN20080605_020434_000000422069_00132_32751_5266.N1	05-JUN-2008 02:04:34	Bright	42.000	86	35Eta Oph	2.4300	10200.	84	32751	No
31	GOM_NL__2PRFIN20080605_020623_000000392069_00132_32751_5267.N1	05-JUN-2008 02:06:23	Bright	39.000	98	13Zet Oph	2.5710	30000.	78	32751	No
32	GOM_NL__2PRFIN20080605_020831_000000382069_00132_32751_5268.N1	05-JUN-2008 02:08:31	Bright	38.000	120	1Del Oph	2.7340	3200.0	76	32751	No
33	GOM_NL__2PRFIN20080605_021134_000000342069_00132_32751_5269.N1	05-JUN-2008 02:11:34	Bright	33.500	102	24Alp Ser	2.6000	4250.0	67	32751	No
34	GOM_NL__2PRFIN20080605_021620_000000592069_00132_32751_5270.N1	05-JUN-2008 02:16:20	Bright	59.000	127	27Bet Her	2.7810	4700.0	118	32751	No
35	GOM_NL__2PRFIN20080605_021938_000000522069_00132_32751_5271.N1	05-JUN-2008 02:19:38	Bright	51.500	133	40Zet Her	2.8070	6000.0	103	32751	No
36	GOM_NL__2PRFIN20080605_022656_000000412069_00132_32751_5272.N1	05-JUN-2008 02:26:56	Bright	41.000	130	23Bet Dra	2.7990	5800.0	82	32751	No
37	GOM_NL__2PRFIN20080605_023748_000000462069_00132_32751_5273.N1	05-JUN-2008 02:37:48	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	32751	No
38	GOM_NL__2PRFIN20080605_024319_000000372069_00132_32751_5274.N1	05-JUN-2008 02:43:19	Bright	37.000	76	27Gam Cas	2.3000	30000.	74	32751	No
39	GOM_NL__2PRFIN20080605_024858_000000372069_00132_32751_5275.N1	05-JUN-2008 02:48:58	Bright	36.500	73	57Gam1And	2.2600	13100.	73	32751	No
40	GOM_NL__2PRFIN20080605_025117_000000482069_00132_32751_5276.N1	05-JUN-2008 02:51:17	Bright	47.500	53	43Bet And	2.0480	3300.0	95	32751	No
41	GOM_NL__2PRFIN20080605_025522_000000412069_00132_32751_5277.N1	05-JUN-2008 02:55:22	Twilight	40.500	105	6Bet Ari	2.6450	8900.0	81	32751	No
42	GOM_NL__2PRFIN20080605_030831_000000472069_00132_32751_5278.N1	05-JUN-2008 03:08:31	Dark	47.000	52	16Bet Cet	2.0370	4500.0	94	32751	No

43	GOM_NL__2PRFIN20080605_031508_000000402069_00132_32751_5279.N1	05-JUN-2008 03:15:08	Dark	40.000	84	Alp Phe	2.3970	4500.0	80	32751	No
44	GOM_NL__2PRFIN20080605_032046_000000512069_00133_32752_5264.N1	05-JUN-2008 03:20:46	Dark	50.500	63	Bet Gru	2.1500	2800.0	101	32752	No
45	GOM_NL__2PRFIN20080605_032243_000000472069_00133_32752_5265.N1	05-JUN-2008 03:22:43	Dark	47.000	31	Alp Gru	1.7340	15200.	94	32752	No
46	GOM_NL__2PRFIN20080605_032724_000000422069_00133_32752_5266.N1	05-JUN-2008 03:27:24	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	32752	No
47	GOM_NL__2PRFIN20080605_033433_000000402069_00133_32752_5267.N1	05-JUN-2008 03:34:33	Straylight	40.000	147	Alp Ara	2.8770	26000.	80	32752	No
48	GOM_NL__2PRFIN20080605_033616_000000442069_00133_32752_5268.N1	05-JUN-2008 03:36:16	Straylight	44.000	40	The Sco	1.8590	7100.0	88	32752	No
49	GOM_NL__2PRFIN20080605_033802_000000412069_00133_32752_5269.N1	05-JUN-2008 03:38:02	Tw_i_and_stray	41.000	25	35Lam Sco	1.6200	28000.	82	32752	No
50	GOM_NL__2PRFIN20080605_033942_000000452069_00133_32752_5270.N1	05-JUN-2008 03:39:42	Tw_i_and_stray	44.500	75	26Eps Sco	2.2910	4250.0	89	32752	No
51	GOM_NL__2PRFIN20080605_034141_000000502069_00133_32752_5271.N1	05-JUN-2008 03:41:41	Bright	50.000	136	23Tau Sco	2.8220	30000.	100	32752	No
52	GOM_NL__2PRFIN20080605_034510_000000422069_00133_32752_5272.N1	05-JUN-2008 03:45:10	Bright	42.000	86	35Eta Oph	2.4300	10200.	84	32752	No
53	GOM_NL__2PRFIN20080605_034659_000000402069_00133_32752_5273.N1	05-JUN-2008 03:46:59	Bright	39.500	98	13Zet Oph	2.5710	30000.	79	32752	No
54	GOM_NL__2PRFIN20080605_034907_000000382069_00133_32752_5274.N1	05-JUN-2008 03:49:07	Bright	37.500	120	1Del Oph	2.7340	3200.0	75	32752	No
55	GOM_NL__2PRFIN20080605_035656_000000422069_00133_32752_5275.N1	05-JUN-2008 03:56:56	Bright	41.500	127	27Bet Her	2.7810	4700.0	83	32752	No
56	GOM_NL__2PRFIN20080605_040014_000000602069_00133_32752_5276.N1	05-JUN-2008 04:00:14	Bright	60.000	133	40Zet Her	2.8070	6000.0	120	32752	No
57	GOM_NL__2PRFIN20080605_040732_000000422069_00133_32752_5277.N1	05-JUN-2008 04:07:32	Bright	42.000	130	23Bet Dra	2.7990	5800.0	84	32752	No
58	GOM_NL__2PRFIN20080605_041823_000000462069_00133_32752_5278.N1	05-JUN-2008 04:18:23	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	32752	No
59	GOM_NL__2PRFIN20080605_042355_000000572069_00133_32752_5279.N1	05-JUN-2008 04:23:55	Bright	57.000	76	27Gam Cas	2.3000	30000.	114	32752	No
60	GOM_NL__2PRFIN20080605_042935_000000542069_00133_32752_5280.N1	05-JUN-2008 04:29:35	Bright	54.000	73	57Gam1And	2.2600	13100.	108	32752	No
61	GOM_NL__2PRFIN20080605_043153_000000592069_00133_32752_5281.N1	05-JUN-2008 04:31:53	Bright	59.000	53	43Bet And	2.0480	3300.0	118	32752	No
62	GOM_NL__2PRFIN20080605_043558_000000402069_00133_32752_5282.N1	05-JUN-2008 04:35:58	Twilight	39.500	105	6Bet Ari	2.6450	8900.0	79	32752	No
63	GOM_NL__2PRFIN20080605_044907_000000502069_00133_32752_5283.N1	05-JUN-2008 04:49:07	Dark	49.500	52	16Bet Cet	2.0370	4500.0	99	32752	No
64	GOM_NL__2PRFIN20080605_045544_000000472069_00133_32752_5284.N1	05-JUN-2008 04:55:44	Dark	47.000	84	Alp Phe	2.3970	4500.0	94	32752	No
65	GOM_NL__2PRFIN20080605_045832_000000612069_00133_32752_5285.N1	05-JUN-2008 04:58:32	Dark	60.500	18	24Alp PsA	1.1660	9700.0	121	32752	No
66	GOM_NL__2PRFIN20080605_050122_000000582069_00134_32753_5253.N1	05-JUN-2008 05:01:22	Dark	57.500	63	Bet Gru	2.1500	2800.0	115	32753	No
67	GOM_NL__2PRFIN20080605_050320_000000472069_00134_32753_5254.N1	05-JUN-2008 05:03:20	Dark	46.500	31	Alp Gru	1.7340	15200.	93	32753	No
68	GOM_NL__2PRFIN20080605_050801_000000412069_00134_32753_5255.N1	05-JUN-2008 05:08:01	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	32753	No
69	GOM_NL__2PRFIN20080605_051510_000000412069_00134_32753_5256.N1	05-JUN-2008 05:15:10	Straylight	40.500	147	Alp Ara	2.8770	26000.	81	32753	No
70	GOM_NL__2PRFIN20080605_051652_000000452069_00134_32753_5257.N1	05-JUN-2008 05:16:52	Straylight	45.000	40	The Sco	1.8590	7100.0	90	32753	No
71	GOM_NL__2PRFIN20080605_051839_000000472069_00134_32753_5258.N1	05-JUN-2008 05:18:39	Tw_i_and_stray	46.500	25	35Lam Sco	1.6200	28000.	93	32753	No
72	GOM_NL__2PRFIN20080605_052018_000000452069_00134_32753_5259.N1	05-JUN-2008 05:20:18	Tw_i_and_stray	44.500	75	26Eps Sco	2.2910	4250.0	89	32753	No
73	GOM_NL__2PRFIN20080605_052217_000000442069_00134_32753_5260.N1	05-JUN-2008 05:22:17	Bright	43.500	136	23Tau Sco	2.8220	30000.	87	32753	No
74	GOM_NL__2PRFIN20080605_052546_000000432069_00134_32753_5261.N1	05-JUN-2008 05:25:46	Bright	43.000	86	35Eta Oph	2.4300	10200.	86	32753	No
75	GOM_NL__2PRFIN20080605_052735_000000402069_00134_32753_5262.N1	05-JUN-2008 05:27:35	Bright	40.000	98	13Zet Oph	2.5710	30000.	80	32753	No
76	GOM_NL__2PRFIN20080605_052943_000000382069_00134_32753_5263.N1	05-JUN-2008 05:29:43	Bright	38.000	120	1Del Oph	2.7340	3200.0	76	32753	No
77	GOM_NL__2PRFIN20080605_053731_000000422069_00134_32753_5264.N1	05-JUN-2008 05:37:31	Bright	41.500	127	27Bet Her	2.7810	4700.0	83	32753	No
78	GOM_NL__2PRFIN20080605_054049_000000402069_00134_32753_5265.N1	05-JUN-2008 05:40:49	Bright	39.500	133	40Zet Her	2.8070	6000.0	79	32753	No
79	GOM_NL__2PRFIN20080605_054807_000000432069_00134_32753_5266.N1	05-JUN-2008 05:48:07	Bright	43.000	130	23Bet Dra	2.7990	5800.0	86	32753	No
80	GOM_NL__2PRFIN20080605_055859_000000472069_00134_32753_5267.N1	05-JUN-2008 05:58:59	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	32753	No
81	GOM_NL__2PRFIN20080605_060431_000000462069_00134_32753_5268.N1	05-JUN-2008 06:04:31	Bright	46.000	76	27Gam Cas	2.3000	30000.	92	32753	No
82	GOM_NL__2PRFIN20080605_061011_000000352069_00134_32753_5269.N1	05-JUN-2008 06:10:11	Bright	34.500	73	57Gam1And	2.2600	13100.	69	32753	No
83	GOM_NL__2PRFIN20080605_061229_000000592069_00134_32753_5270.N1	05-JUN-2008 06:12:29	Bright	59.000	53	43Bet And	2.0480	3300.0	118	32753	No
84	GOM_NL__2PRFIN20080605_061635_000000412069_00134_32753_5271.N1	05-JUN-2008 06:16:35	Twilight	40.500	105	6Bet Ari	2.6450	8900.0	81	32753	No
85	GOM_NL__2PRFIN20080605_062944_000000502069_00134_32753_5272.N1	05-JUN-2008 06:29:44	Dark	49.500	52	16Bet Cet	2.0370	4500.0	99	32753	No
86	GOM_NL__2PRFIN20080605_063621_000000462069_00134_32753_5273.N1	05-JUN-2008 06:36:21	Dark	45.500	84	Alp Phe	2.3970	4500.0	91	32753	No
87	GOM_NL__2PRFIN20080605_063909_000000652069_00134_32753_5274.N1	05-JUN-2008 06:39:09	Dark	65.000	18	24Alp PsA	1.1660	9700.0	130	32753	No
88	GOM_NL__2PRFIN20080605_064159_000000642069_00135_32754_5329.N1	05-JUN-2008 06:41:59	Dark	64.000	63	Bet Gru	2.1500	2800.0	128	32754	No
89	GOM_NL__2PRFIN20080605_064357_000000462069_00135_32754_5330.N1	05-JUN-2008 06:43:57	Dark	46.000	31	Alp Gru	1.7340	15200.	92	32754	No
90	GOM_NL__2PRFIN20080605_064837_000000412069_00135_32754_5331.N1	05-JUN-2008 06:48:37	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	32754	No
91	GOM_NL__2PRFIN20080605_065546_000000412069_00135_32754_5332.N1	05-JUN-2008 06:55:46	Straylight	40.500	147	Alp Ara	2.8770	26000.	81	32754	No
92	GOM_NL__2PRFIN20080605_065729_000000442069_00135_32754_5333.N1	05-JUN-2008 06:57:29	Straylight	44.000	40	The Sco	1.8590	7100.0	88	32754	No
93	GOM_NL__2PRFIN20080605_065915_000000432069_00135_32754_5334.N1	05-JUN-2008 06:59:15	Tw_i_and_stray	43.000	25	35Lam Sco	1.6200	28000.	86	32754	No
94	GOM_NL__2PRFIN20080605_070054_000000462069_00135_32754_5335.N1	05-JUN-2008 07:00:54	Tw_i_and_stray	45.500	75	26Eps Sco	2.2910	4250.0	91	32754	No
95	GOM_NL__2PRFIN20080605_070253_000000432069_00135_32754_5336.N1	05-JUN-2008 07:02:53	Bright	43.000	136	23Tau Sco	2.8220	30000.	86	32754	No
96	GOM_NL__2PRFIN20080605_070622_000000432069_00135_32754_5337.N1	05-JUN-2008 07:06:22	Bright	43.000	86	35Eta Oph	2.4300	10200.	86	32754	No
97	GOM_NL__2PRFIN20080605_070811_000000392069_00135_32754_5338.N1	05-JUN-2008 07:08:11	Bright	38.500	98	13Zet Oph	2.5710	30000.	77	32754	No
98	GOM_NL__2PRFIN20080605_071019_000000382069_00135_32754_5339.N1	05-JUN-2008 07:10:19	Bright	38.000	120	1Del Oph	2.7340	3200.0	76	32754	No
99	GOM_NL__2PRFIN20080605_071807_000000402069_00135_32754_5340.N1	05-JUN-2008 07:18:07	Bright	39.500	127	27Bet Her	2.7810	4700.0	79	32754	No
100	GOM_NL__2PRFIN20080605_072125_000000422069_00135_32754_5341.N1	05-JUN-2008 07:21:25	Bright	41.500	133	40Zet Her	2.8070	6000.0	83	32754	No
101	GOM_NL__2PRFIN20080605_072843_000000422069_00135_32754_5342.N1	05-JUN-2008 07:28:43	Bright	41.500	130	23Bet Dra	2.7990	5800.0	83	32754	No

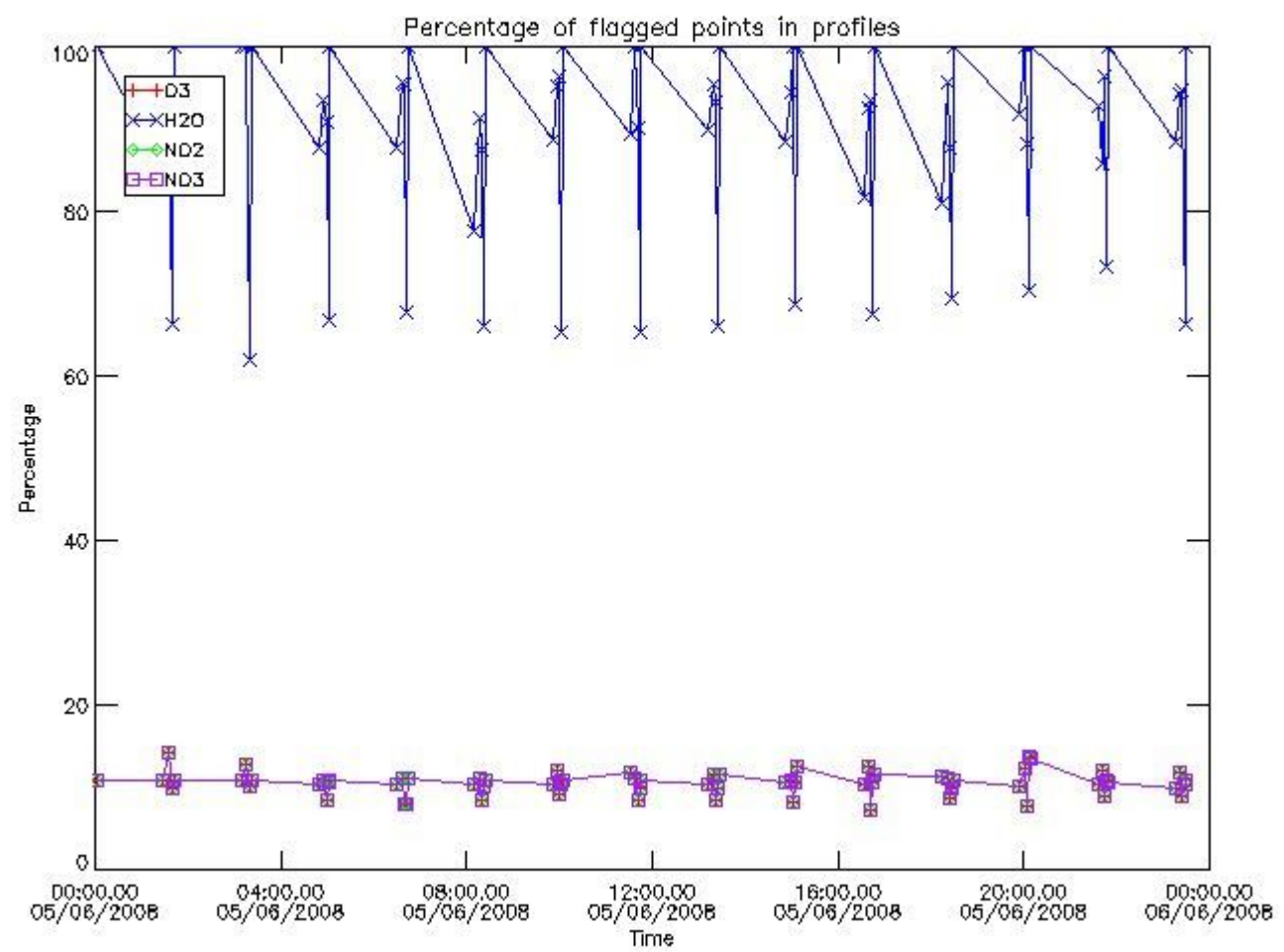
102	GOM_NL__2PRFIN20080605_073934_000000692069_00135_32754_5343.N1	05-JUN-2008 07:39:34	Bright	69.000	89	5Alp Cep	2.4510	8000.0	138	32754	No
103	GOM_NL__2PRFIN20080605_074507_000000392069_00135_32754_5344.N1	05-JUN-2008 07:45:07	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	32754	No
104	GOM_NL__2PRFIN20080605_075047_000000412069_00135_32754_5345.N1	05-JUN-2008 07:50:47	Bright	41.000	73	57Gam1And	2.2600	13100.	82	32754	No
105	GOM_NL__2PRFIN20080605_075305_000000592069_00135_32754_5346.N1	05-JUN-2008 07:53:05	Bright	59.000	53	43Bet And	2.0480	3300.0	118	32754	No
106	GOM_NL__2PRFIN20080605_075711_000000412069_00135_32754_5347.N1	05-JUN-2008 07:57:11	Twilight	41.000	105	6Bet Ari	2.6450	8900.0	82	32754	No
107	GOM_NL__2PRFIN20080605_081021_000000502069_00135_32754_5348.N1	05-JUN-2008 08:10:21	Dark	49.500	52	16Bet Cet	2.0370	4500.0	99	32754	No
108	GOM_NL__2PRFIN20080605_081658_000000462069_00135_32754_5349.N1	05-JUN-2008 08:16:58	Dark	46.000	84	Alp Phe	2.3970	4500.0	92	32754	No
109	GOM_NL__2PRFIN20080605_081946_000000612069_00135_32754_5350.N1	05-JUN-2008 08:19:46	Dark	60.500	18	24Alp PsA	1.1660	9700.0	121	32754	No
110	GOM_NL__2PRFIN20080605_082236_000000512069_00136_32755_5441.N1	05-JUN-2008 08:22:36	Dark	50.500	63	Bet Gru	2.1500	2800.0	101	32755	No
111	GOM_NL__2PRFIN20080605_082433_000000482069_00136_32755_5442.N1	05-JUN-2008 08:24:33	Dark	47.500	31	Alp Gru	1.7340	15200.	95	32755	No
112	GOM_NL__2PRFIN20080605_082914_000000412069_00136_32755_5443.N1	05-JUN-2008 08:29:14	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	32755	No
113	GOM_NL__2PRFIN20080605_083625_000000372069_00136_32755_5444.N1	05-JUN-2008 08:36:25	Straylight	37.000	147	Alp Ara	2.8770	26000.	74	32755	No
114	GOM_NL__2PRFIN20080605_083805_000000432069_00136_32755_5445.N1	05-JUN-2008 08:38:05	Straylight	42.500	40	The Sco	1.8590	7100.0	85	32755	No
115	GOM_NL__2PRFIN20080605_083951_000000432069_00136_32755_5446.N1	05-JUN-2008 08:39:51	Tw_and_stray	42.500	25	35Lam Sco	1.6200	28000.	85	32755	No
116	GOM_NL__2PRFIN20080605_084131_000000462069_00136_32755_5447.N1	05-JUN-2008 08:41:31	Tw_and_stray	45.500	75	26Eps Sco	2.2910	4250.0	91	32755	No
117	GOM_NL__2PRFIN20080605_084329_000000432069_00136_32755_5448.N1	05-JUN-2008 08:43:29	Bright	42.500	136	23Tau Sco	2.8220	30000.	85	32755	No
118	GOM_NL__2PRFIN20080605_084658_000000442069_00136_32755_5449.N1	05-JUN-2008 08:46:58	Bright	43.500	86	35Eta Oph	2.4300	10200.	87	32755	No
119	GOM_NL__2PRFIN20080605_084847_000000392069_00136_32755_5450.N1	05-JUN-2008 08:48:47	Bright	38.500	98	13Zet Oph	2.5710	30000.	77	32755	No
120	GOM_NL__2PRFIN20080605_085055_000000382069_00136_32755_5451.N1	05-JUN-2008 08:50:55	Bright	37.500	120	1Del Oph	2.7340	3200.0	75	32755	No
121	GOM_NL__2PRFIN20080605_085843_000000422069_00136_32755_5452.N1	05-JUN-2008 08:58:43	Bright	41.500	127	27Bet Her	2.7810	4700.0	83	32755	No
122	GOM_NL__2PRFIN20080605_090200_000000392069_00136_32755_5453.N1	05-JUN-2008 09:02:00	Bright	38.500	133	40Zet Her	2.8070	6000.0	77	32755	No
123	GOM_NL__2PRFIN20080605_090918_000000432069_00136_32755_5454.N1	05-JUN-2008 09:09:18	Bright	42.500	130	23Bet Dra	2.7990	5800.0	85	32755	No
124	GOM_NL__2PRFIN20080605_092009_000000462069_00136_32755_5455.N1	05-JUN-2008 09:20:09	Bright	45.500	89	5Alp Cep	2.4510	8000.0	91	32755	No
125	GOM_NL__2PRFIN20080605_092543_000000572069_00136_32755_5456.N1	05-JUN-2008 09:25:43	Bright	57.000	76	27Gam Cas	2.3000	30000.	114	32755	No
126	GOM_NL__2PRFIN20080605_093123_000000372069_00136_32755_5457.N1	05-JUN-2008 09:31:23	Bright	37.000	73	57Gam1And	2.2600	13100.	74	32755	No
127	GOM_NL__2PRFIN20080605_093341_000000592069_00136_32755_5458.N1	05-JUN-2008 09:33:41	Bright	59.000	53	43Bet And	2.0480	3300.0	118	32755	No
128	GOM_NL__2PRFIN20080605_093747_000000412069_00136_32755_5459.N1	05-JUN-2008 09:37:47	Twilight	40.500	105	6Bet Ari	2.6450	8900.0	81	32755	No
129	GOM_NL__2PRFIN20080605_095058_000000502069_00136_32755_5460.N1	05-JUN-2008 09:50:58	Dark	49.500	52	16Bet Cet	2.0370	4500.0	99	32755	No
130	GOM_NL__2PRFIN20080605_095734_000000422069_00136_32755_5461.N1	05-JUN-2008 09:57:34	Dark	42.000	84	Alp Phe	2.3970	4500.0	84	32755	No
131	GOM_NL__2PRFIN20080605_100024_000000562069_00136_32755_5462.N1	05-JUN-2008 10:00:24	Dark	56.000	18	24Alp PsA	1.1660	9700.0	112	32755	No
132	GOM_NL__2PRFIN20080605_100313_000000502069_00137_32756_5469.N1	05-JUN-2008 10:03:13	Dark	49.500	63	Bet Gru	2.1500	2800.0	99	32756	No
133	GOM_NL__2PRFIN20080605_100510_000000472069_00137_32756_5470.N1	05-JUN-2008 10:05:10	Dark	47.000	31	Alp Gru	1.7340	15200.	94	32756	No
134	GOM_NL__2PRFIN20080605_100950_000000422069_00137_32756_5471.N1	05-JUN-2008 10:09:50	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	32756	No
135	GOM_NL__2PRFIN20080605_101841_000000472069_00137_32756_5472.N1	05-JUN-2008 10:18:41	Straylight	46.500	40	The Sco	1.8590	7100.0	93	32756	No
136	GOM_NL__2PRFIN20080605_102028_000000462069_00137_32756_5473.N1	05-JUN-2008 10:20:28	Tw_and_stray	45.500	25	35Lam Sco	1.6200	28000.	91	32756	No
137	GOM_NL__2PRFIN20080605_102207_000000422069_00137_32756_5474.N1	05-JUN-2008 10:22:07	Tw_and_stray	42.000	75	26Eps Sco	2.2910	4250.0	84	32756	No
138	GOM_NL__2PRFIN20080605_102405_000000482069_00137_32756_5475.N1	05-JUN-2008 10:24:05	Bright	48.000	136	23Tau Sco	2.8220	30000.	96	32756	No
139	GOM_NL__2PRFIN20080605_102734_000000432069_00137_32756_5476.N1	05-JUN-2008 10:27:34	Bright	43.000	86	35Eta Oph	2.4300	10200.	86	32756	No
140	GOM_NL__2PRFIN20080605_102923_000000392069_00137_32756_5477.N1	05-JUN-2008 10:29:23	Bright	38.500	98	13Zet Oph	2.5710	30000.	77	32756	No
141	GOM_NL__2PRFIN20080605_103131_000000382069_00137_32756_5478.N1	05-JUN-2008 10:31:31	Bright	37.500	120	1Del Oph	2.7340	3200.0	75	32756	No
142	GOM_NL__2PRFIN20080605_103918_000000462069_00137_32756_5479.N1	05-JUN-2008 10:39:18	Bright	45.500	127	27Bet Her	2.7810	4700.0	91	32756	No
143	GOM_NL__2PRFIN20080605_104236_000000422069_00137_32756_5480.N1	05-JUN-2008 10:42:36	Bright	42.000	133	40Zet Her	2.8070	6000.0	84	32756	No
144	GOM_NL__2PRFIN20080605_104953_000000602069_00137_32756_5481.N1	05-JUN-2008 10:49:53	Bright	60.000	130	23Bet Dra	2.7990	5800.0	120	32756	No
145	GOM_NL__2PRFIN20080605_110045_000000472069_00137_32756_5482.N1	05-JUN-2008 11:00:45	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	32756	No
146	GOM_NL__2PRFIN20080605_110618_000000382069_00137_32756_5483.N1	05-JUN-2008 11:06:18	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	32756	No
147	GOM_NL__2PRFIN20080605_111159_000000362069_00137_32756_5484.N1	05-JUN-2008 11:11:59	Bright	36.000	73	57Gam1And	2.2600	13100.	72	32756	No
148	GOM_NL__2PRFIN20080605_111417_000000512069_00137_32756_5485.N1	05-JUN-2008 11:14:17	Bright	51.000	53	43Bet And	2.0480	3300.0	102	32756	No
149	GOM_NL__2PRFIN20080605_111823_000000422069_00137_32756_5486.N1	05-JUN-2008 11:18:23	Twilight	41.500	105	6Bet Ari	2.6450	8900.0	83	32756	No
150	GOM_NL__2PRFIN20080605_113134_000000432069_00137_32756_5487.N1	05-JUN-2008 11:31:34	Dark	43.000	52	16Bet Cet	2.0370	4500.0	86	32756	No
151	GOM_NL__2PRFIN20080605_113811_000000462069_00137_32756_5488.N1	05-JUN-2008 11:38:11	Dark	46.000	84	Alp Phe	2.3970	4500.0	92	32756	No
152	GOM_NL__2PRFIN20080605_114101_000000612069_00137_32756_5489.N1	05-JUN-2008 11:41:01	Dark	60.500	18	24Alp PsA	1.1660	9700.0	121	32756	No
153	GOM_NL__2PRFIN20080605_114350_000000512069_00138_32757_5476.N1	05-JUN-2008 11:43:50	Dark	51.000	63	Bet Gru	2.1500	2800.0	102	32757	No
154	GOM_NL__2PRFIN20080605_114547_000000472069_00138_32757_5477.N1	05-JUN-2008 11:45:47	Dark	47.000	31	Alp Gru	1.7340	15200.	94	32757	No
155	GOM_NL__2PRFIN20080605_115027_000000432069_00138_32757_5478.N1	05-JUN-2008 11:50:27	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	32757	No
156	GOM_NL__2PRFIN20080605_115918_000000452069_00138_32757_5479.N1	05-JUN-2008 11:59:18	Straylight	44.500	40	The Sco	1.8590	7100.0	89	32757	No
157	GOM_NL__2PRFIN20080605_120104_000000442069_00138_32757_5480.N1	05-JUN-2008 12:01:04	Tw_and_stray	44.000	25	35Lam Sco	1.6200	28000.	88	32757	No
158	GOM_NL__2PRFIN20080605_120243_000000472069_00138_32757_5481.N1	05-JUN-2008 12:02:43	Tw_and_stray	47.000	75	26Eps Sco	2.2910	4250.0	94	32757	No
159	GOM_NL__2PRFIN20080605_120441_000000412069_00138_32757_5482.N1	05-JUN-2008 12:04:41	Bright	41.000	136	23Tau Sco	2.8220	30000.	82	32757	No
160	GOM_NL__2PRFIN20080605_120810_000000432069_00138_32757_5483.N1	05-JUN-2008 12:08:10	Bright	43.000	86	35Eta Oph	2.4300	10200.	86	32757	No

279	GOM_NL__2PRFIN20080605_214731_000000472069_00144_32763_5594.N1	05-JUN-2008 21:47:31	Dark	47.000	63	Bet Gru	2.1500	2800.0	94	32763	No
280	GOM_NL__2PRFIN20080605_214929_000000482069_00144_32763_5595.N1	05-JUN-2008 21:49:29	Dark	48.000	31	Alp Gru	1.7340	15200.	96	32763	No
281	GOM_NL__2PRFIN20080605_215407_000000432069_00144_32763_5596.N1	05-JUN-2008 21:54:07	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	32763	No
282	GOM_NL__2PRFIN20080605_220256_000000472069_00144_32763_5597.N1	05-JUN-2008 22:02:56	Straylight	47.000	40	The Sco	1.8590	7100.0	94	32763	No
283	GOM_NL__2PRFIN20080605_220442_000000472069_00144_32763_5598.N1	05-JUN-2008 22:04:42	Tw_i_and_stray	46.500	25	35Lam Sco	1.6200	28000.	93	32763	No
284	GOM_NL__2PRFIN20080605_220620_000000452069_00144_32763_5599.N1	05-JUN-2008 22:06:20	Tw_i_and_stray	45.000	75	26Eps Sco	2.2910	4250.0	90	32763	No
285	GOM_NL__2PRFIN20080605_220818_000000412069_00144_32763_5600.N1	05-JUN-2008 22:08:18	Bright	41.000	136	23Tau Sco	2.8220	30000.	82	32763	No
286	GOM_NL__2PRFIN20080605_221147_000000432069_00144_32763_5601.N1	05-JUN-2008 22:11:47	Bright	43.000	86	35Eta Oph	2.4300	10200.	86	32763	No
287	GOM_NL__2PRFIN20080605_221335_000000392069_00144_32763_5602.N1	05-JUN-2008 22:13:35	Bright	38.500	98	13Zet Oph	2.5710	30000.	77	32763	No
288	GOM_NL__2PRFIN20080605_221543_000000382069_00144_32763_5603.N1	05-JUN-2008 22:15:43	Bright	37.500	120	1Del Oph	2.7340	3200.0	75	32763	No
289	GOM_NL__2PRFIN20080605_222328_000000392069_00144_32763_5604.N1	05-JUN-2008 22:23:28	Bright	38.500	127	27Bet Her	2.7810	4700.0	77	32763	No
290	GOM_NL__2PRFIN20080605_222645_000000402069_00144_32763_5605.N1	05-JUN-2008 22:26:45	Bright	40.000	133	40Zet Her	2.8070	6000.0	80	32763	No
291	GOM_NL__2PRFIN20080605_223401_000000442069_00144_32763_5606.N1	05-JUN-2008 22:34:01	Bright	44.000	130	23Bet Dra	2.7990	5800.0	88	32763	No
292	GOM_NL__2PRFIN20080605_224452_000000472069_00144_32763_5607.N1	05-JUN-2008 22:44:52	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	32763	No
293	GOM_NL__2PRFIN20080605_225029_000000572069_00144_32763_5608.N1	05-JUN-2008 22:50:29	Bright	57.000	76	27Gam Cas	2.3000	30000.	114	32763	No
294	GOM_NL__2PRFIN20080605_225611_000000352069_00144_32763_5609.N1	05-JUN-2008 22:56:11	Bright	34.500	73	57Gam1And	2.2600	13100.	69	32763	No
295	GOM_NL__2PRFIN20080605_225829_000000472069_00144_32763_5610.N1	05-JUN-2008 22:58:29	Bright	47.000	53	43Bet And	2.0480	3300.0	94	32763	No
296	GOM_NL__2PRFIN20080605_230236_000000392069_00144_32763_5611.N1	05-JUN-2008 23:02:36	Twilight	39.000	105	6Bet Ari	2.6450	8900.0	78	32763	No
297	GOM_NL__2PRFIN20080605_231551_000000522069_00144_32763_5612.N1	05-JUN-2008 23:15:51	Dark	52.000	52	16Bet Cet	2.0370	4500.0	104	32763	No
298	GOM_NL__2PRFIN20080605_232227_000000442069_00144_32763_5613.N1	05-JUN-2008 23:22:27	Dark	43.500	84	Alp Phe	2.3970	4500.0	87	32763	No
299	GOM_NL__2PRFIN20080605_232522_000000572069_00144_32763_5614.N1	05-JUN-2008 23:25:22	Dark	57.000	18	24Alp PsA	1.1660	9700.0	114	32763	No
300	GOM_NL__2PRFIN20080605_232808_000000502069_00145_32764_5609.N1	05-JUN-2008 23:28:08	Dark	49.500	63	Bet Gru	2.1500	2800.0	99	32764	No
301	GOM_NL__2PRFIN20080605_233005_000000472069_00145_32764_5610.N1	05-JUN-2008 23:30:05	Dark	46.500	31	Alp Gru	1.7340	15200.	93	32764	No
302	GOM_NL__2PRFIN20080605_233443_000000442069_00145_32764_5611.N1	05-JUN-2008 23:34:43	Straylight	43.500	45	Alp Pav	1.9400	26000.	87	32764	No
303	GOM_NL__2PRFIN20080605_234332_000000452069_00145_32764_5612.N1	05-JUN-2008 23:43:32	Straylight	45.000	40	The Sco	1.8590	7100.0	90	32764	No
304	GOM_NL__2PRFIN20080605_234518_000000462069_00145_32764_5613.N1	05-JUN-2008 23:45:18	Tw_i_and_stray	45.500	25	35Lam Sco	1.6200	28000.	91	32764	No
305	GOM_NL__2PRFIN20080605_234656_000000442069_00145_32764_5614.N1	05-JUN-2008 23:46:56	Tw_i_and_stray	44.000	75	26Eps Sco	2.2910	4250.0	88	32764	No
306	GOM_NL__2PRFIN20080605_234854_000000462069_00145_32764_5615.N1	05-JUN-2008 23:48:54	Bright	46.000	136	23Tau Sco	2.8220	30000.	92	32764	No
307	GOM_NL__2PRFIN20080605_235223_000000432069_00145_32764_5616.N1	05-JUN-2008 23:52:23	Bright	42.500	86	35Eta Oph	2.4300	10200.	85	32764	No
308	GOM_NL__2PRFIN20080605_235411_000000392069_00145_32764_5617.N1	05-JUN-2008 23:54:11	Bright	38.500	98	13Zet Oph	2.5710	30000.	77	32764	No
309	GOM_NL__2PRFIN20080605_235619_000000382069_00145_32764_5618.N1	05-JUN-2008 23:56:19	Bright	37.500	120	1Del Oph	2.7340	3200.0	75	32764	No

3. Quality information per product

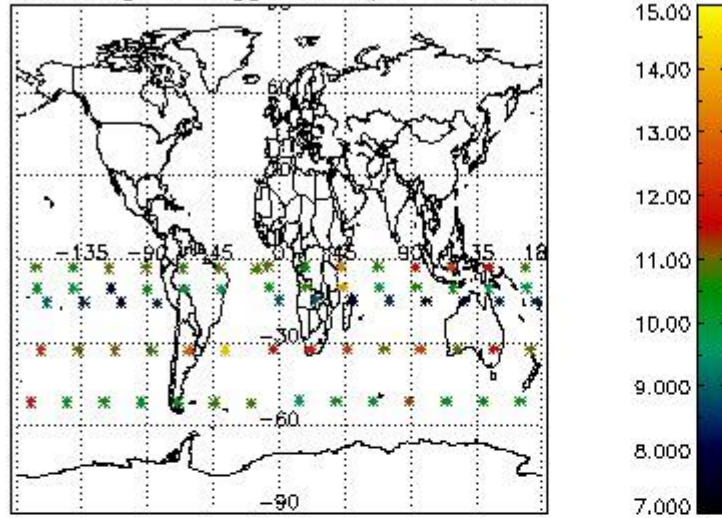
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

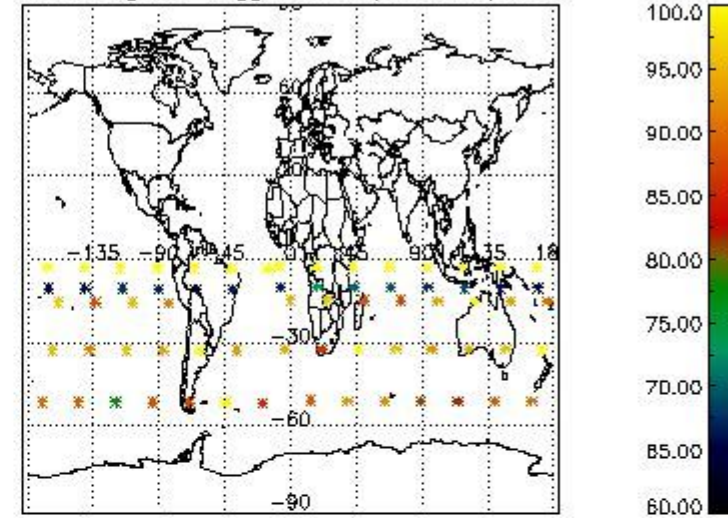


3.2 Plot quality information per product (world map)

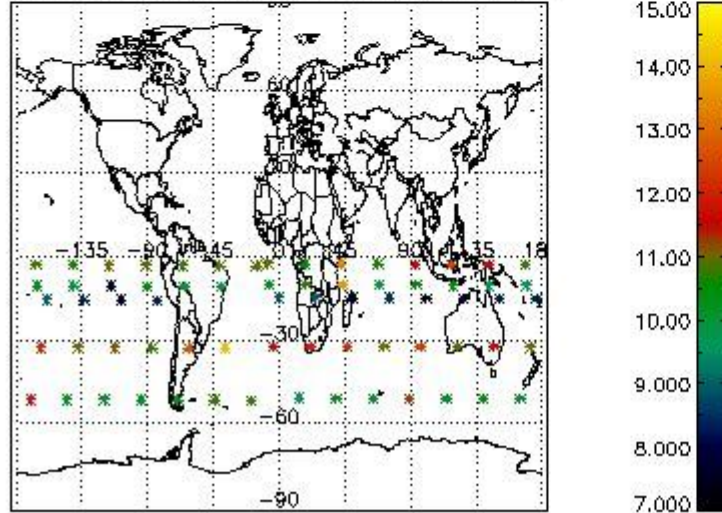
Percentage of flagged data per O3 profile



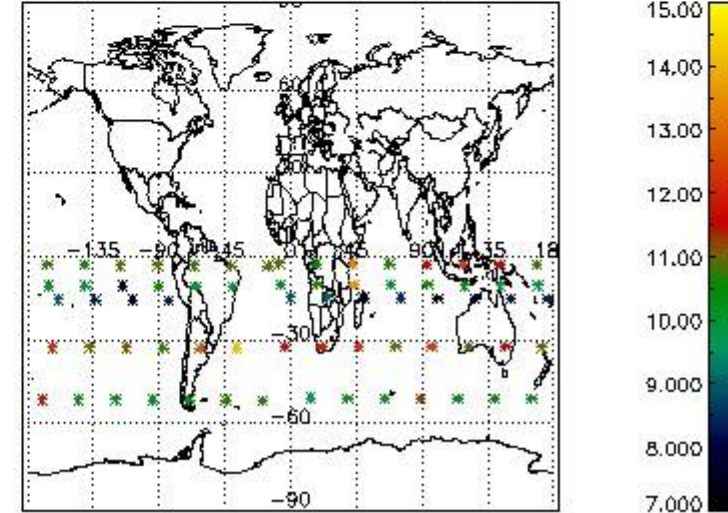
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

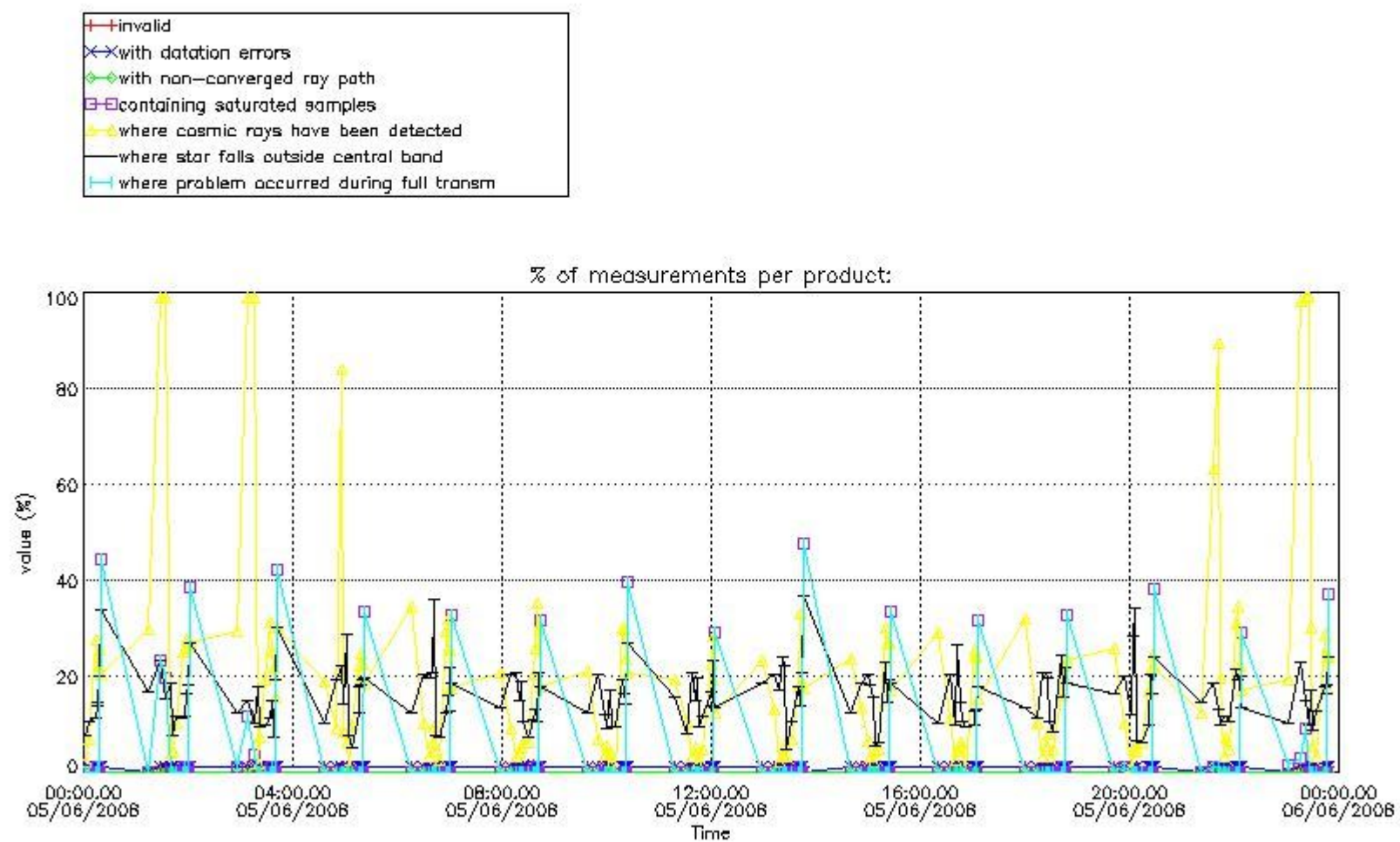


4. Level 1 quality information per product

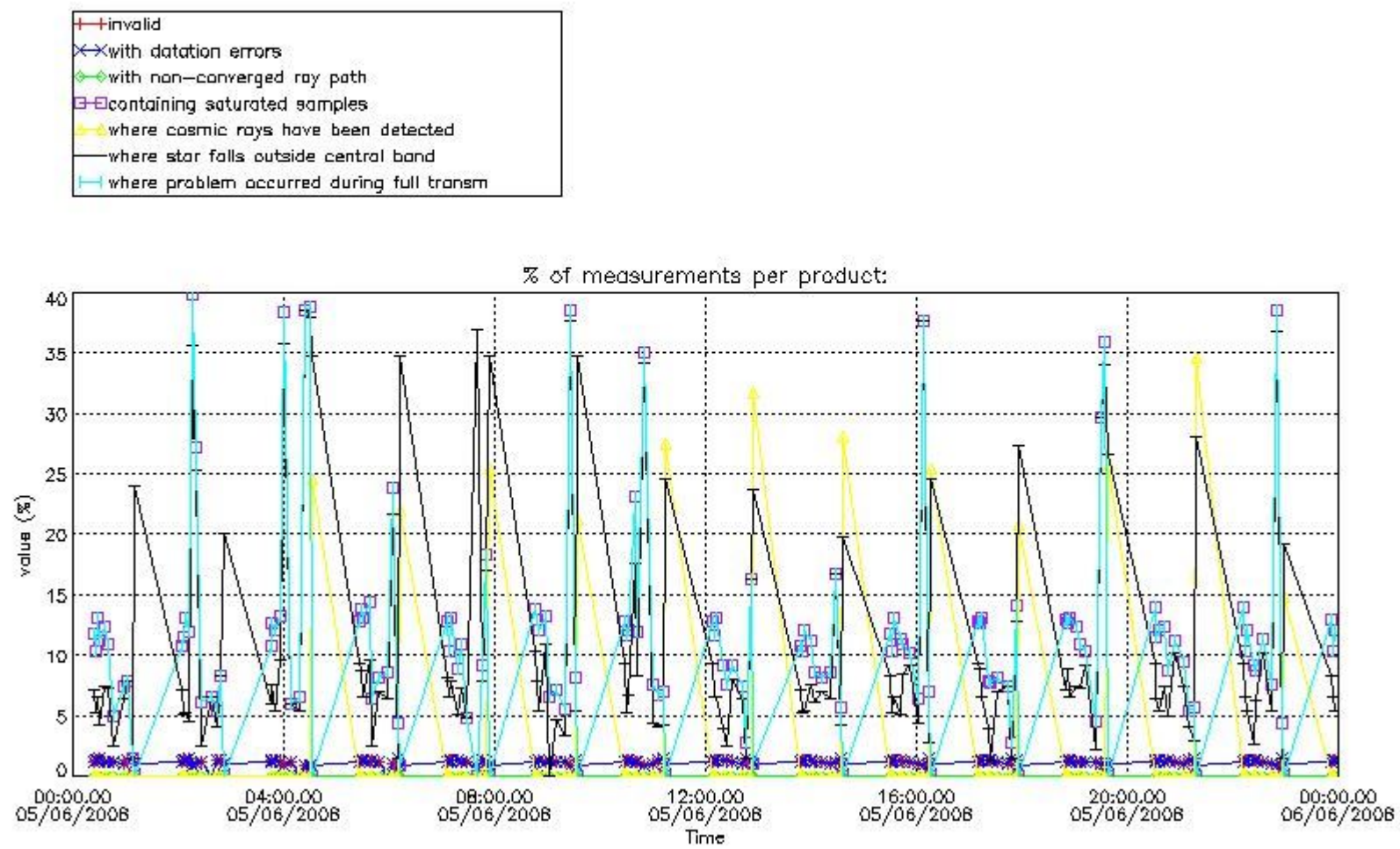
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

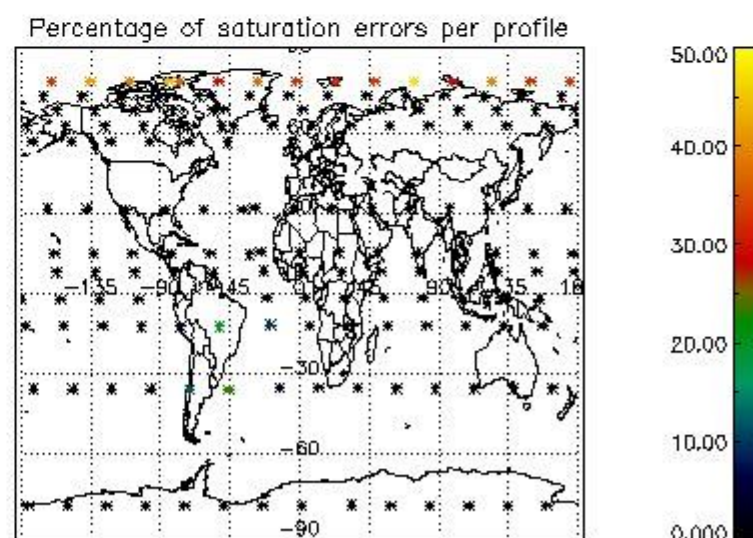
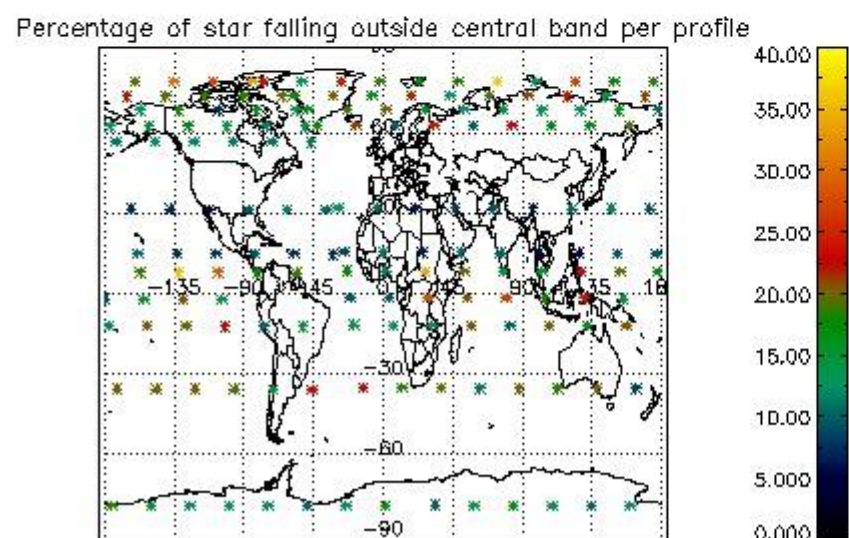
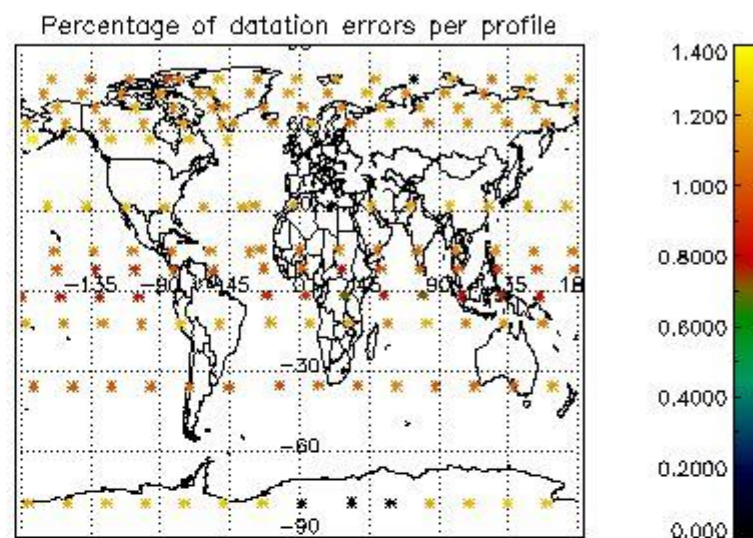
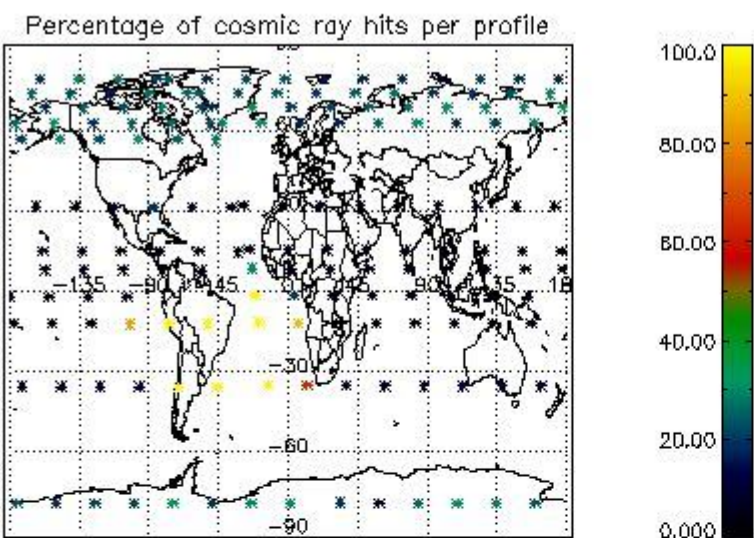


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

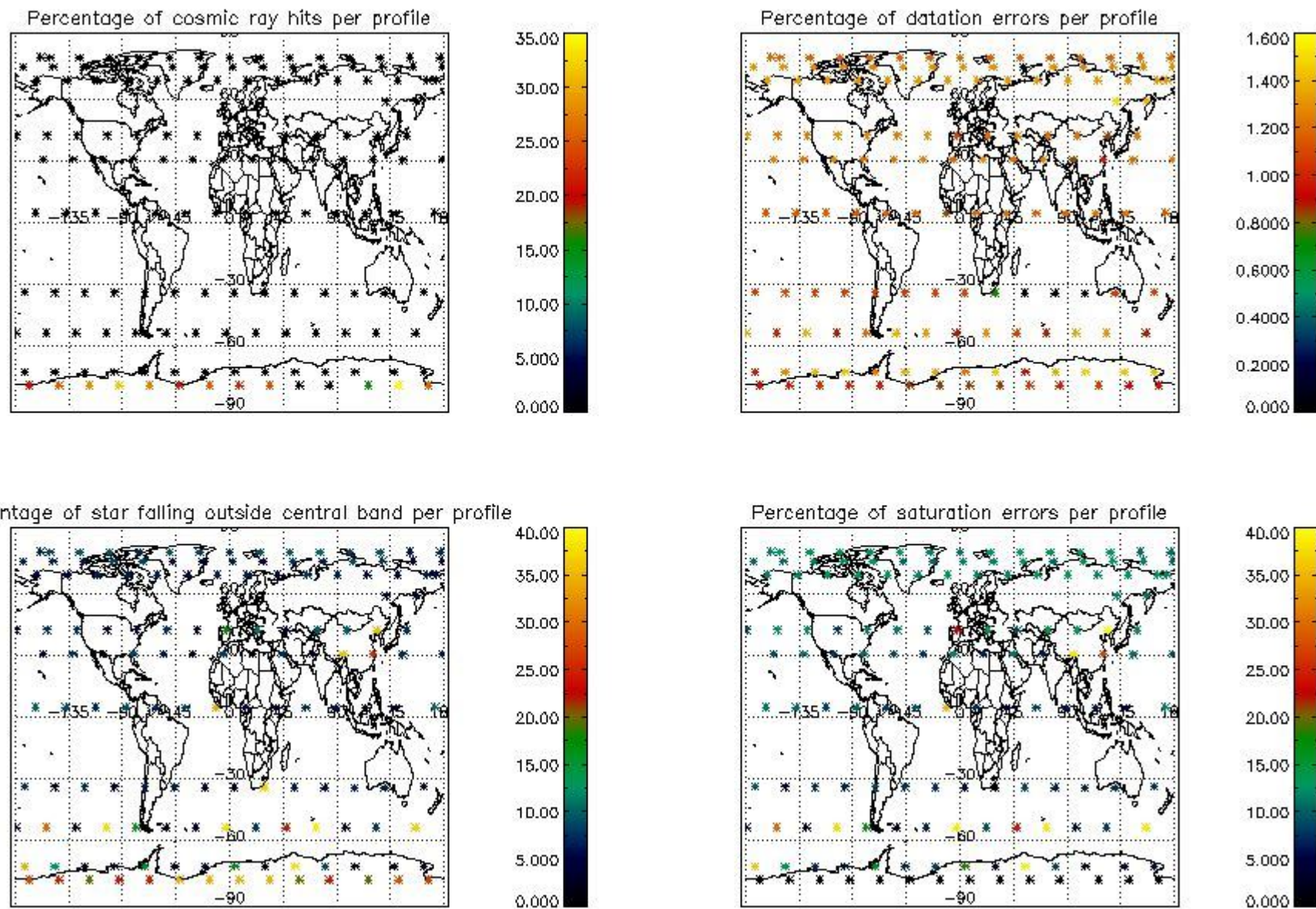


4.2 Plot quality information per product coming from level 1b processing (world map)

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

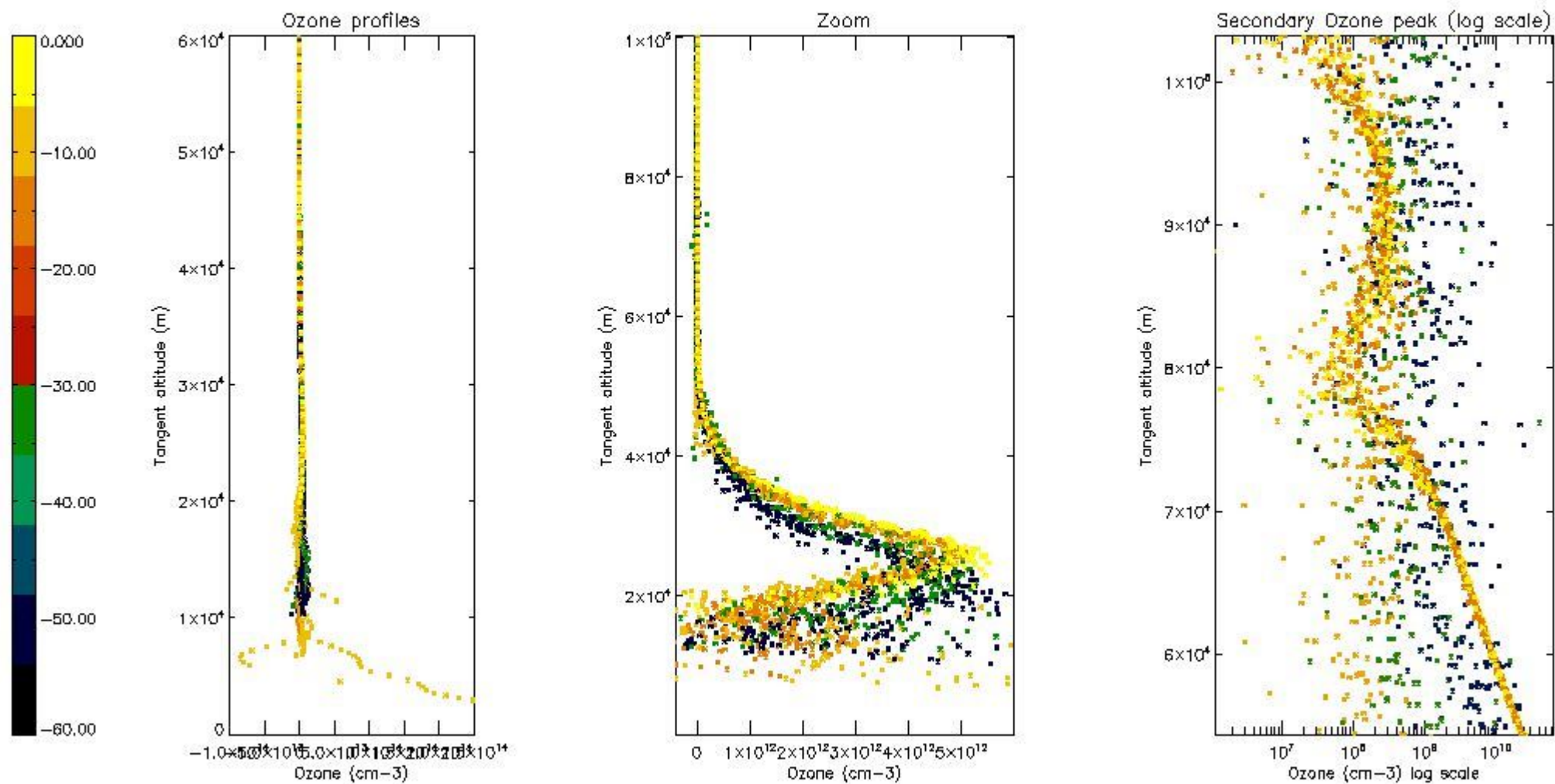
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	26
STD < 20	11

STD < 10	7
STD < 5	5

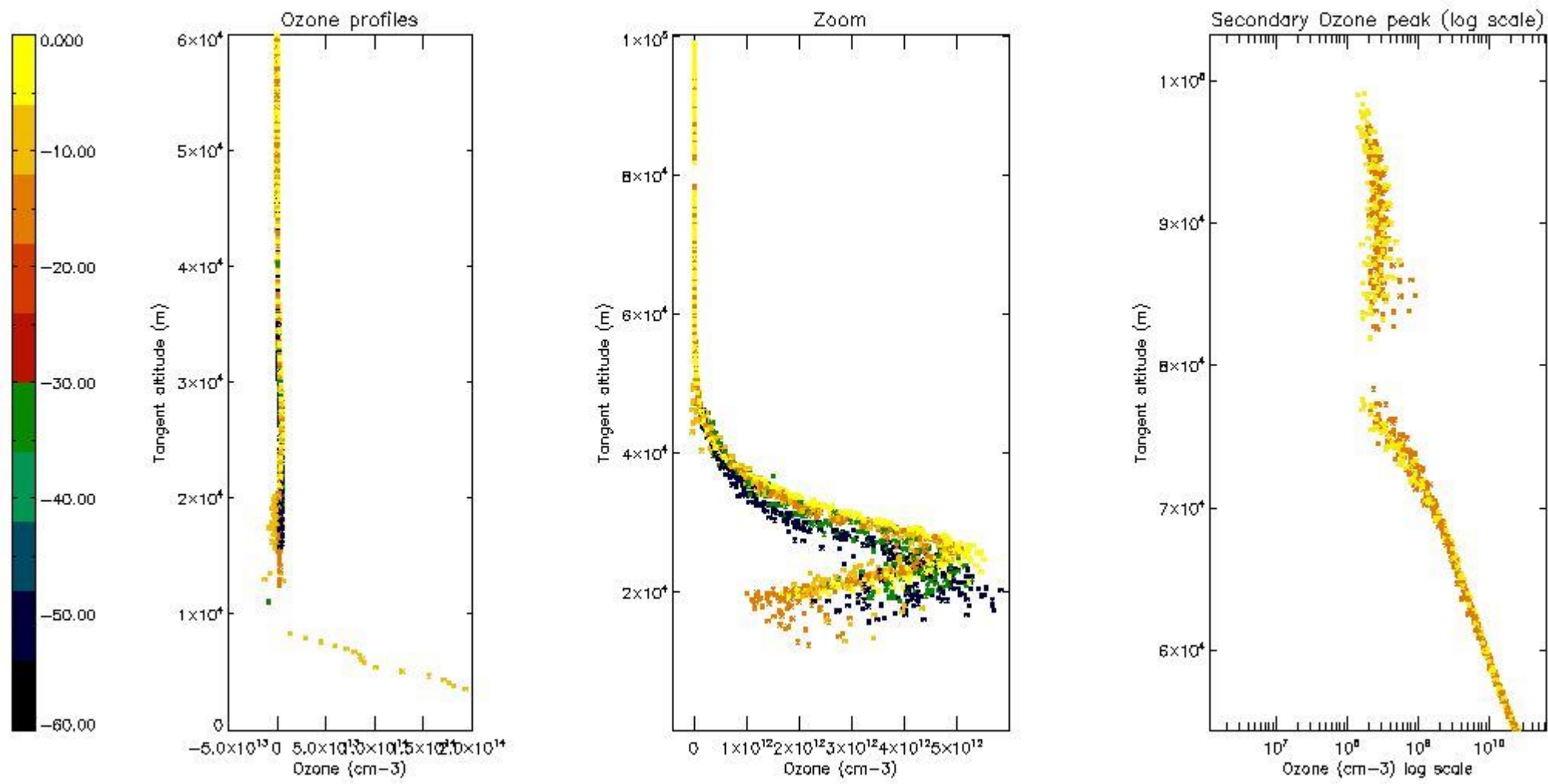
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



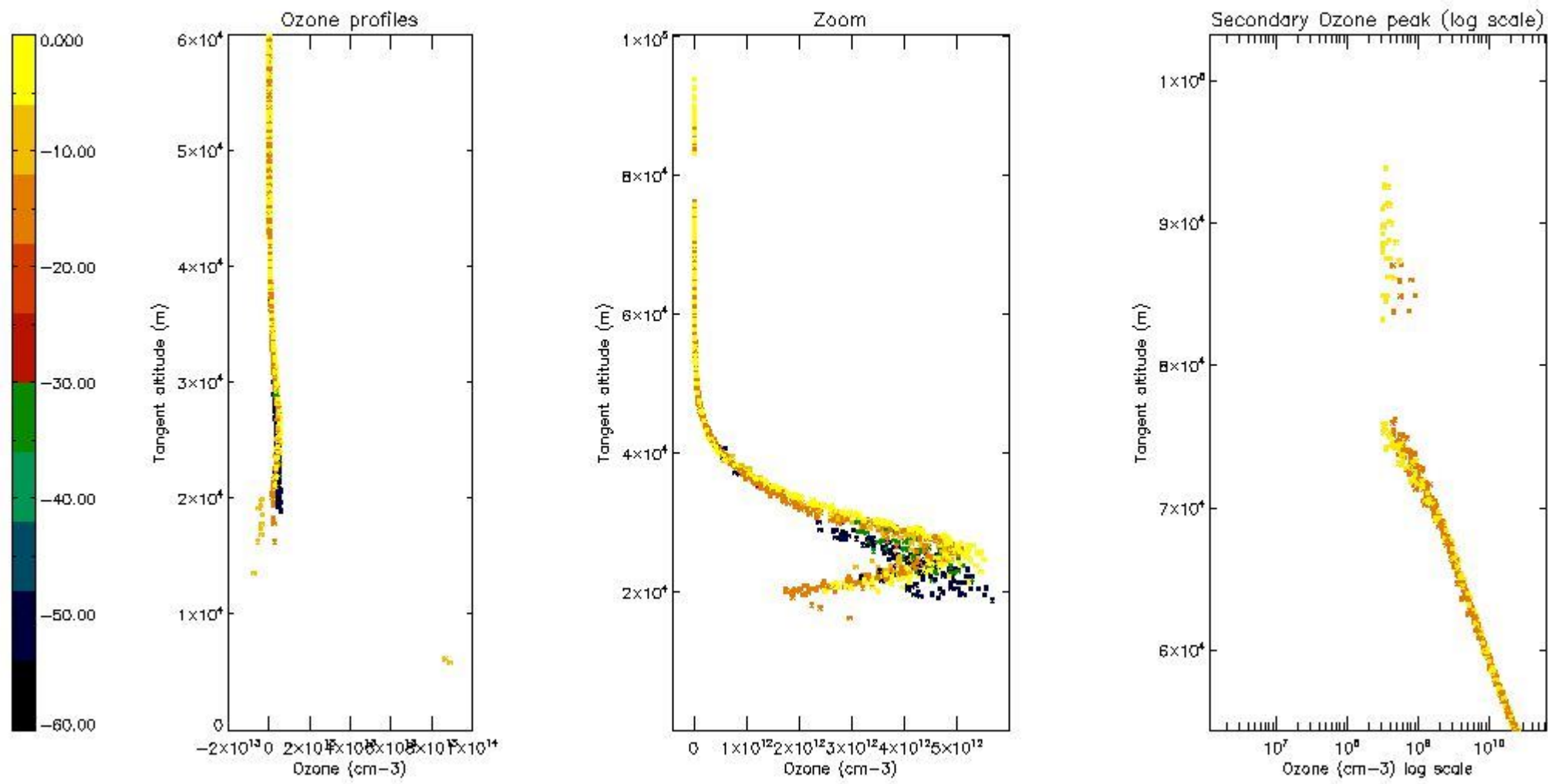
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



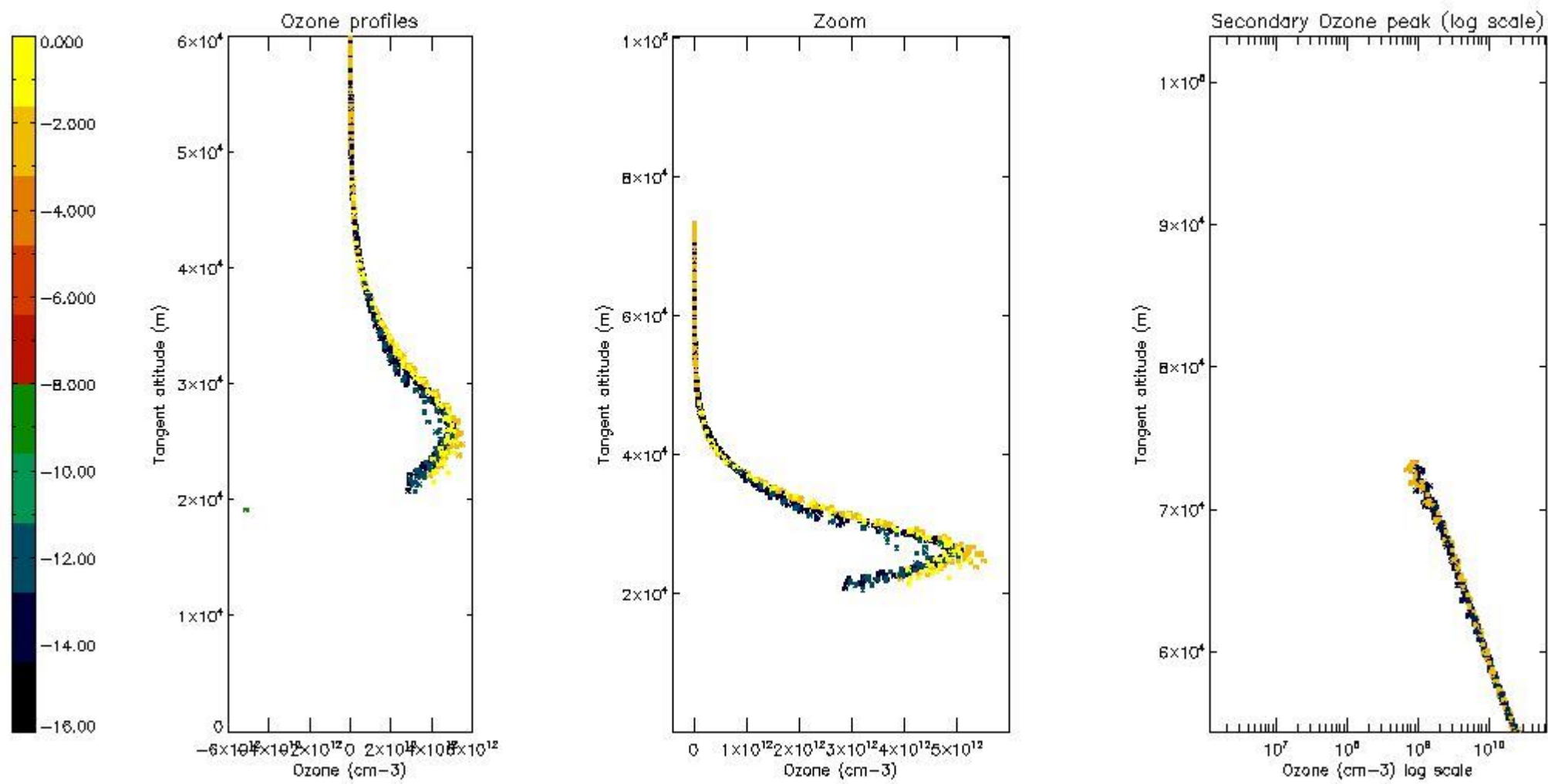
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



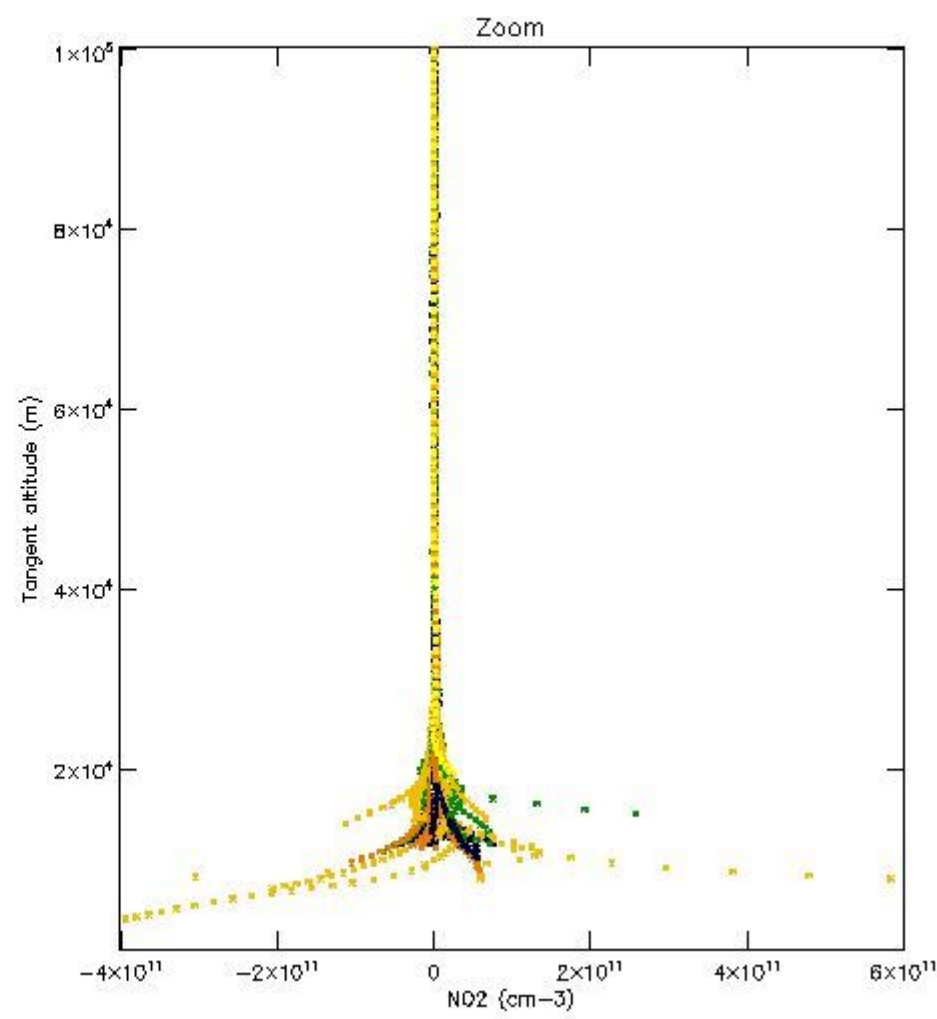
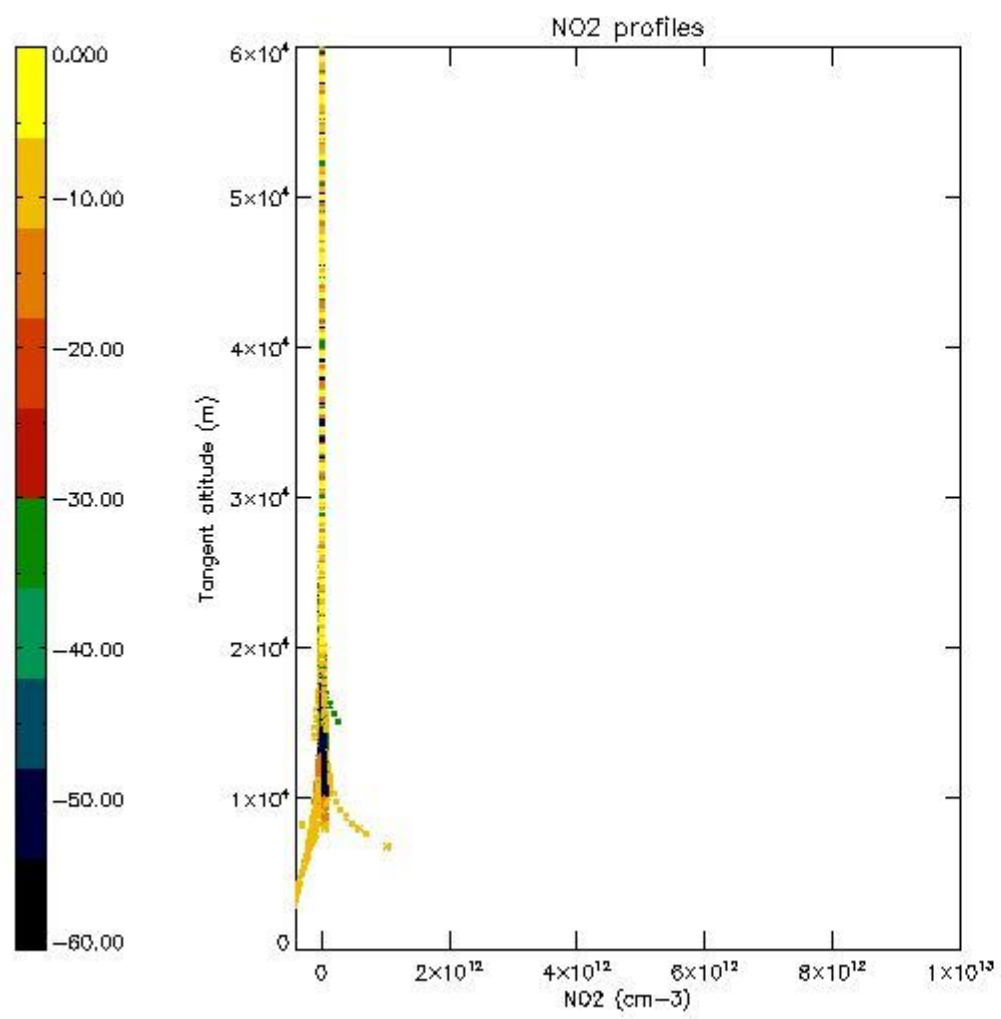
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



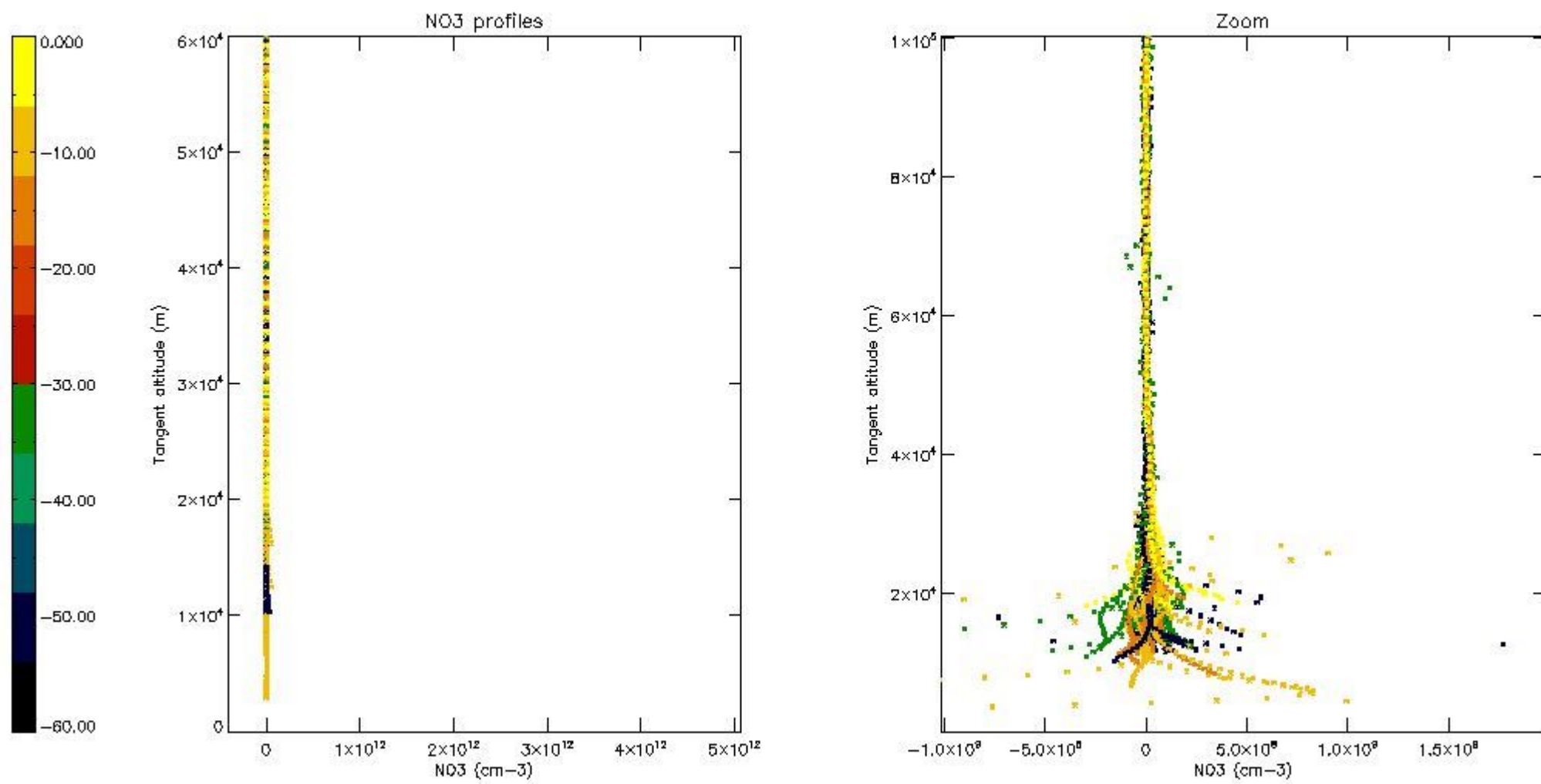
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



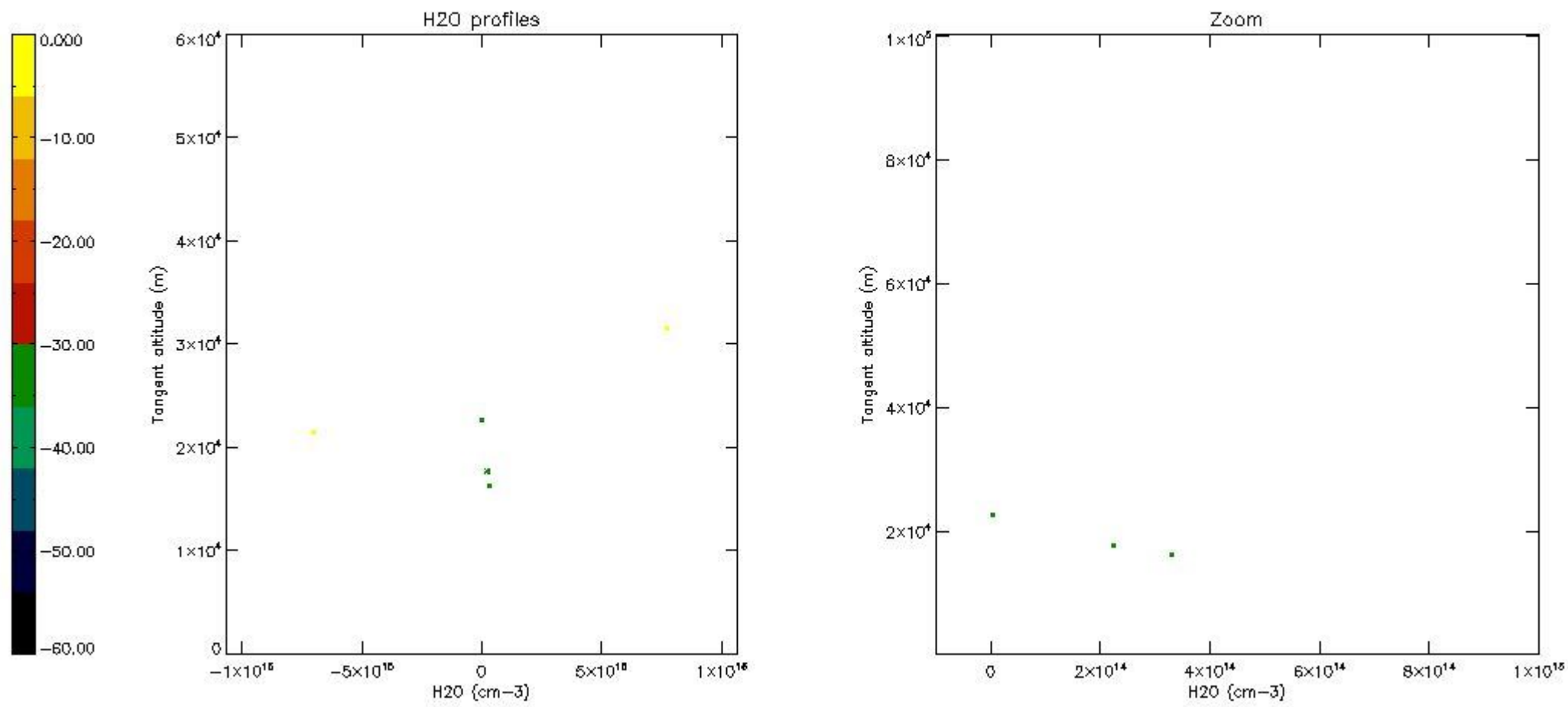
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

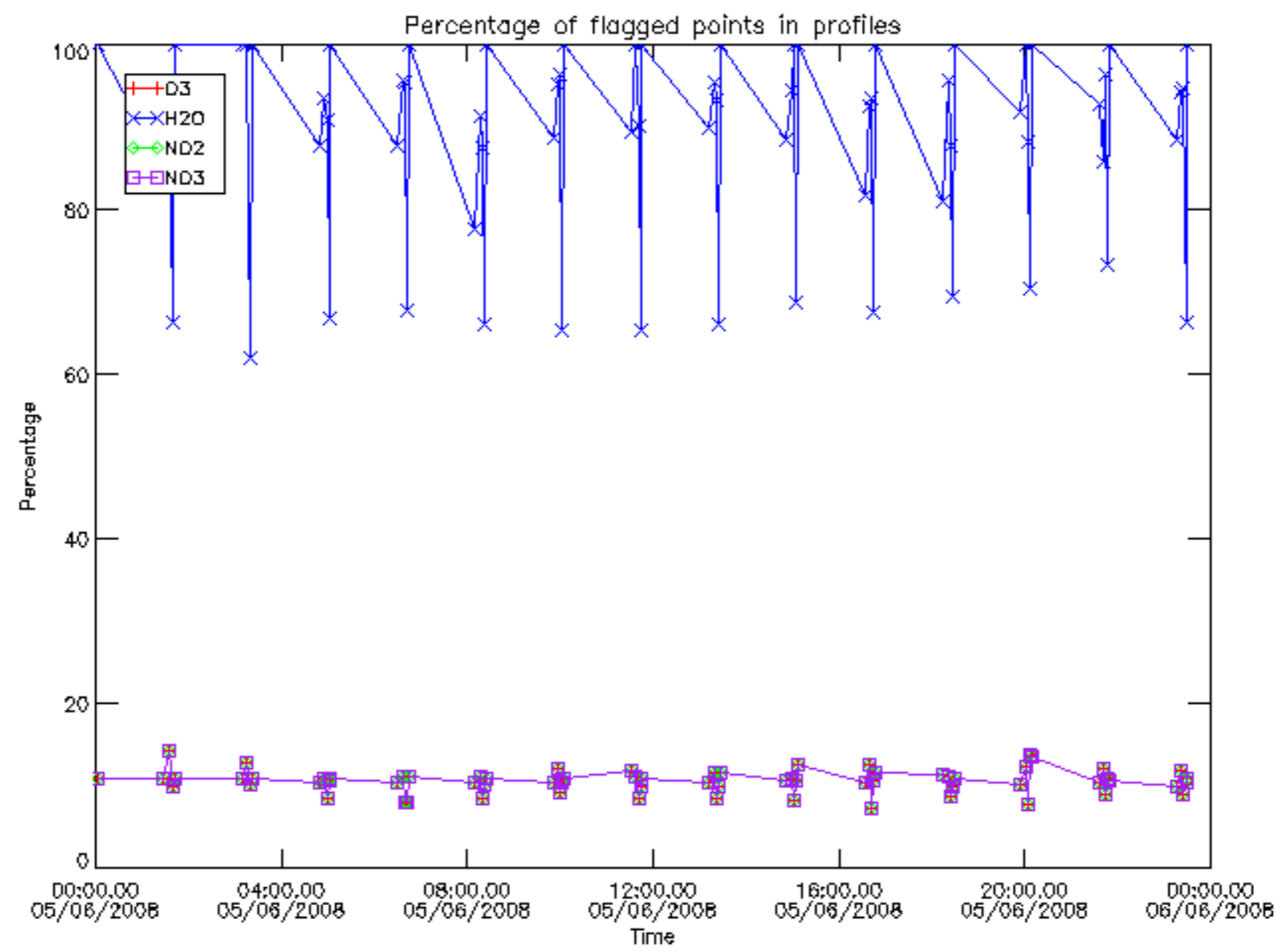
The colorbar represents the latitude.



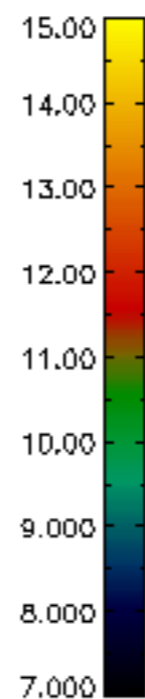
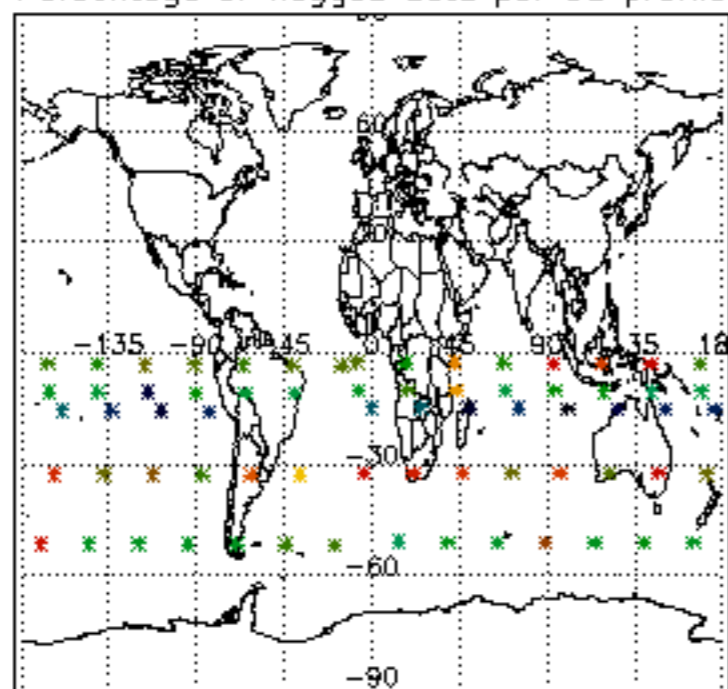
6. Auxiliary Data Files used for the production reported in section 2

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.

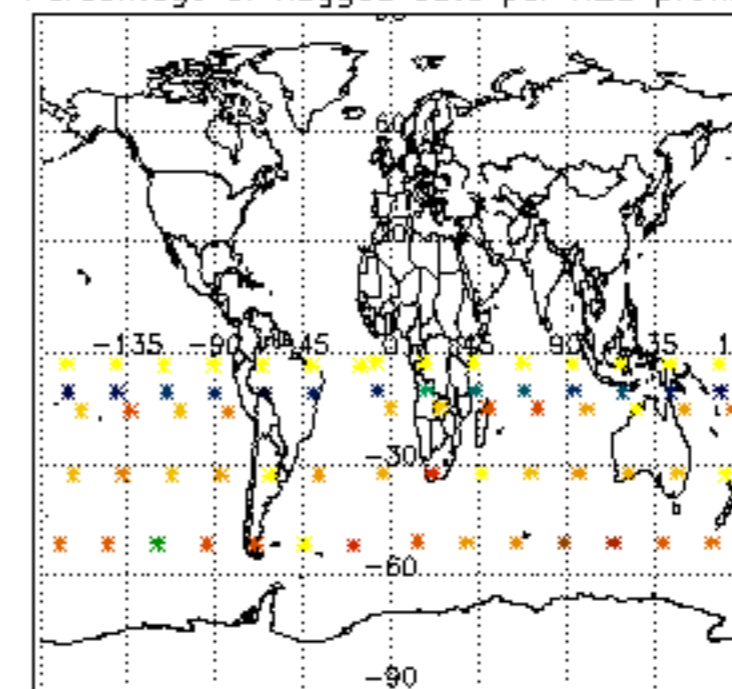
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	05-JUN-2008 00:01:29
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	05-JUN-2008 00:01:29
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	05-JUN-2008 00:01:29



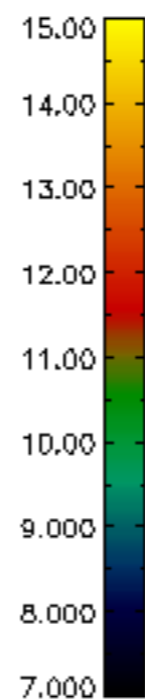
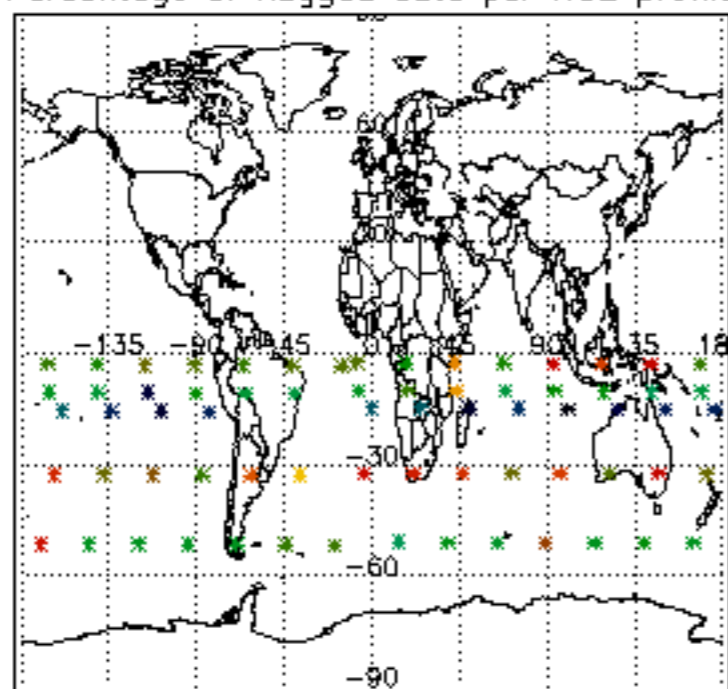
Percentage of flagged data per D3 profile



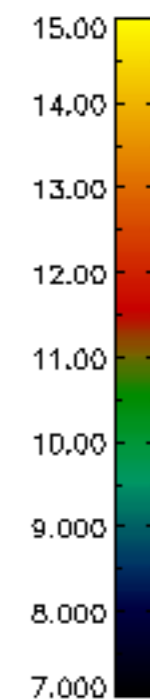
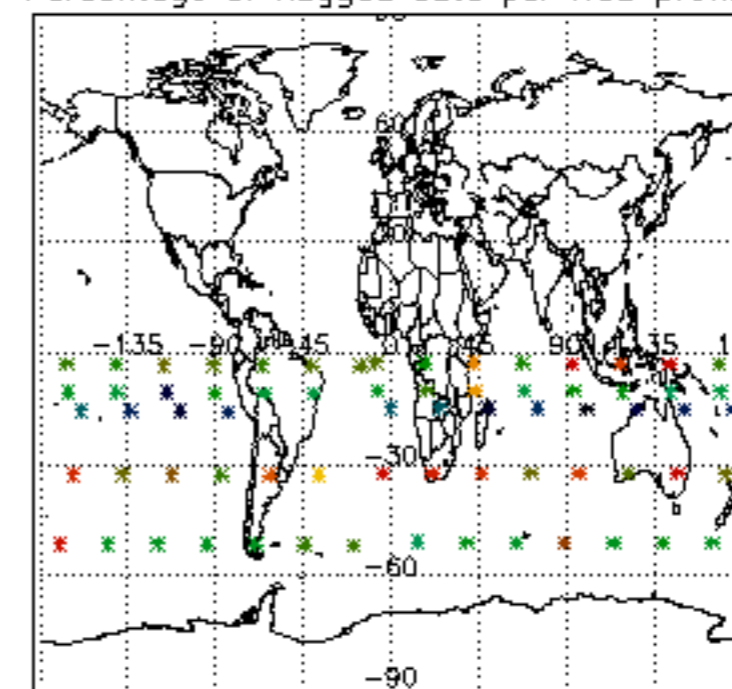
Percentage of flagged data per H2O profile

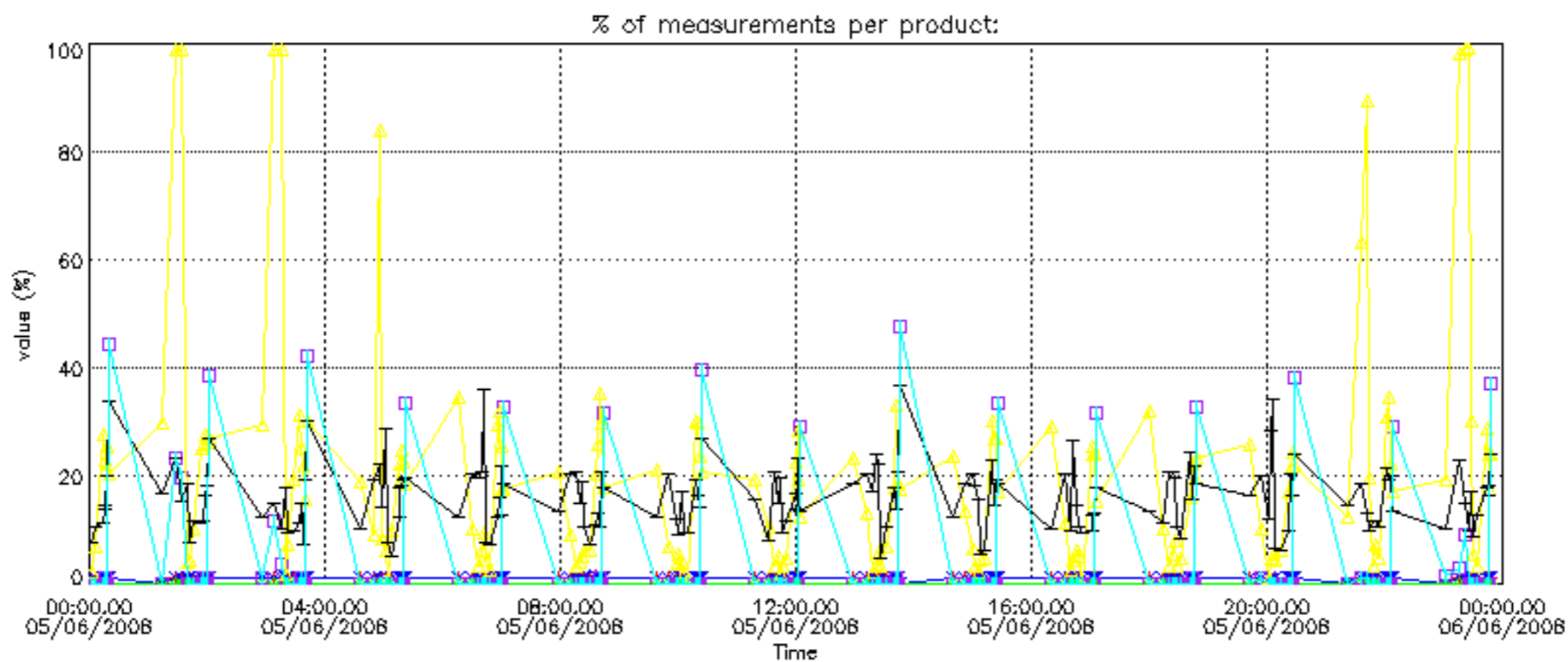


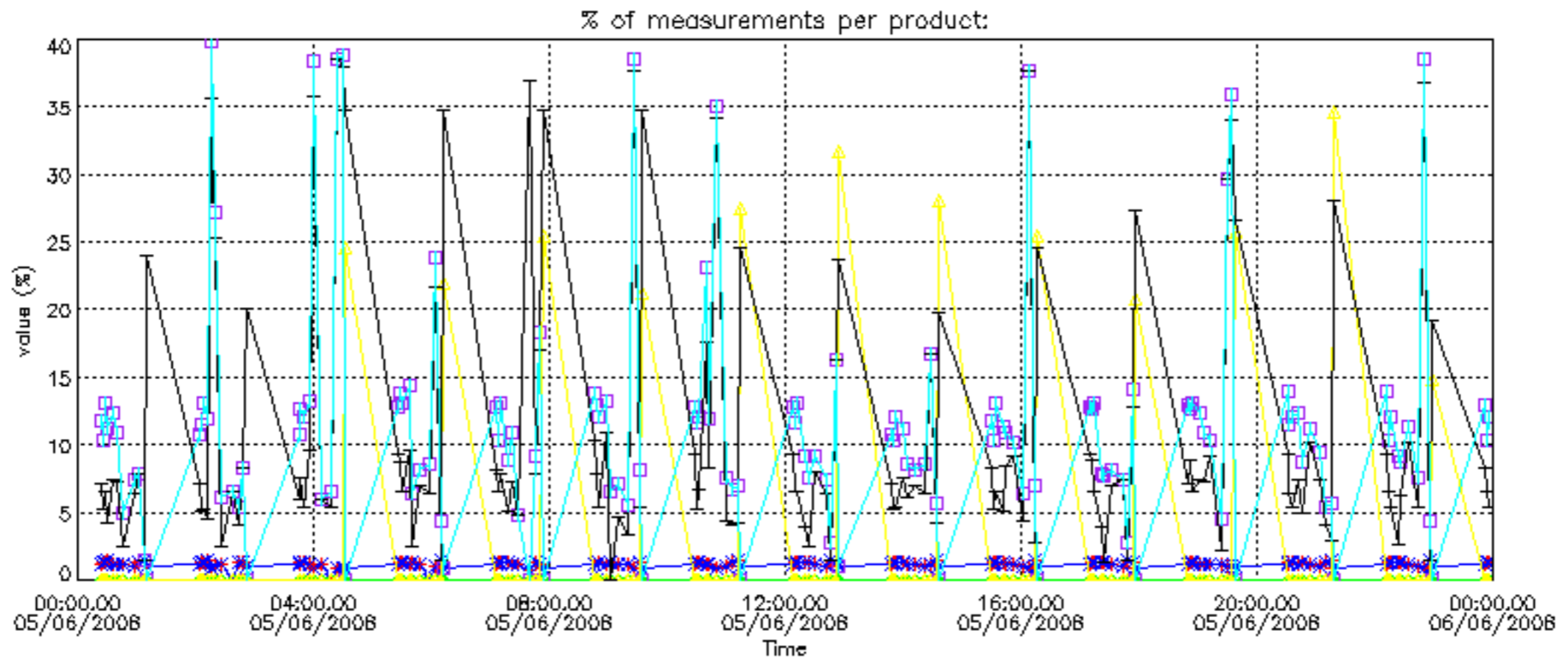
Percentage of flagged data per NO2 profile



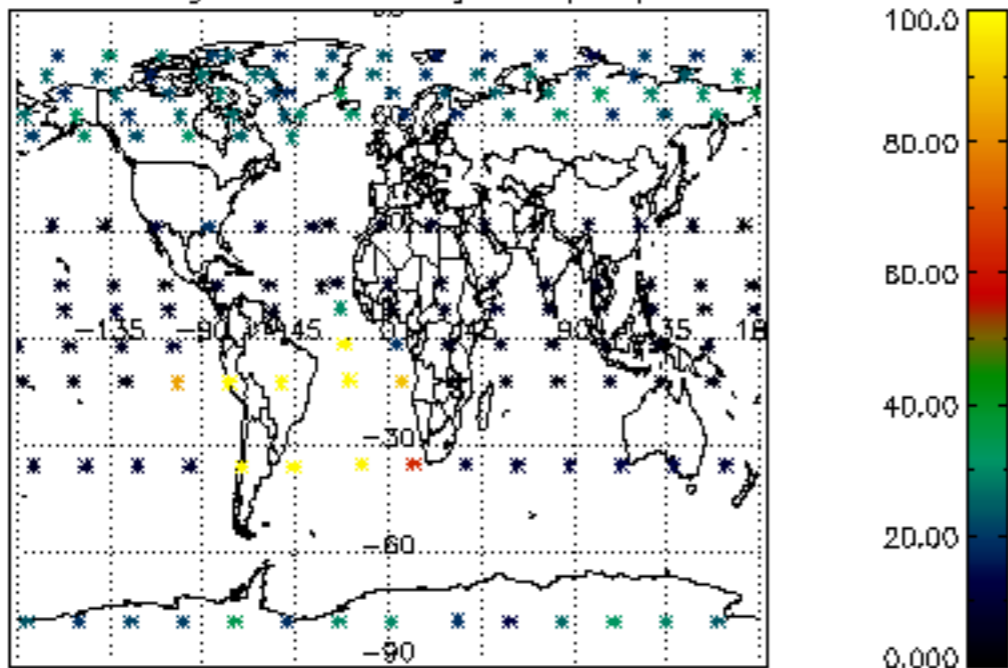
Percentage of flagged data per NO3 profile



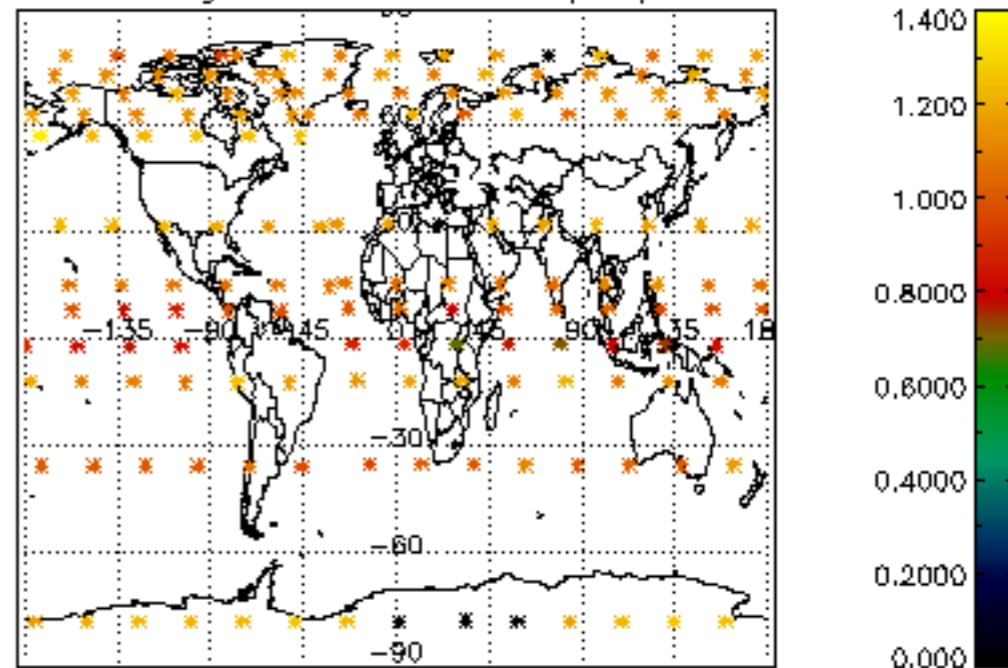




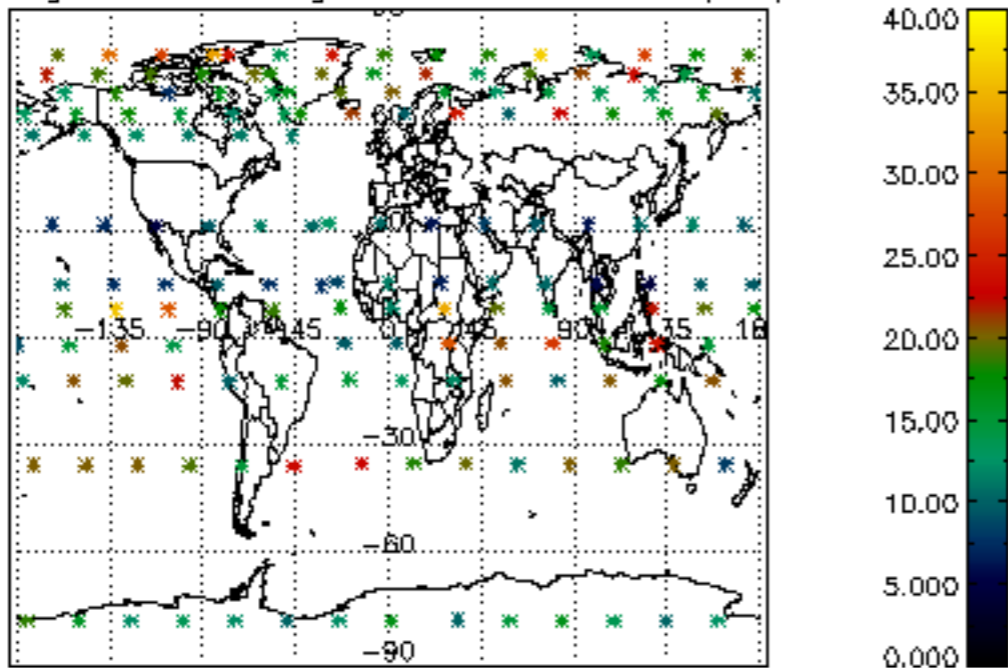
Percentage of cosmic ray hits per profile



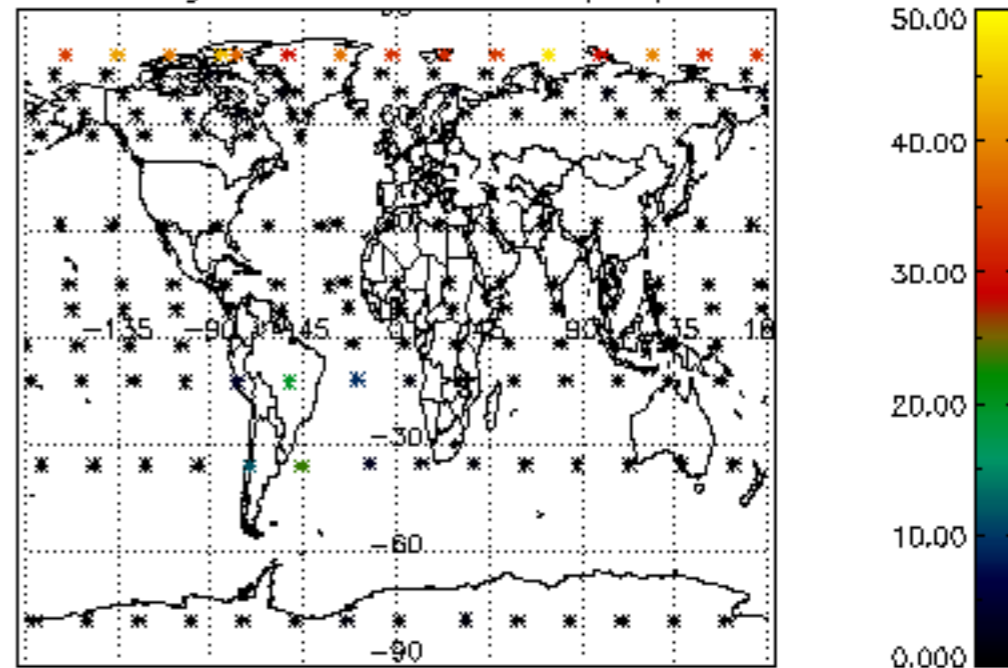
Percentage of datation errors per profile



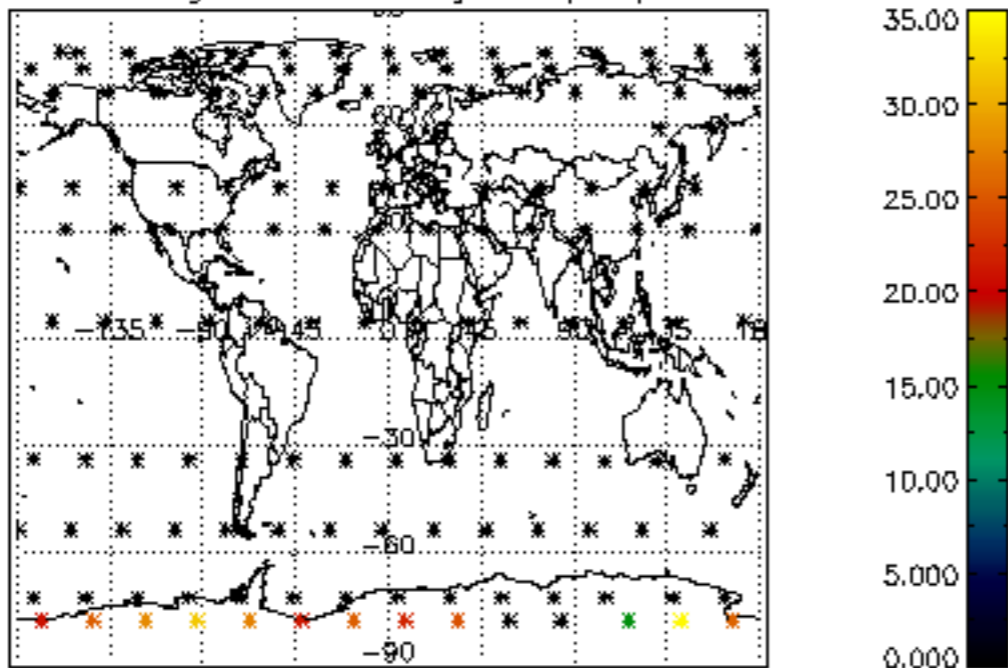
Percentage of star falling outside central band per profile



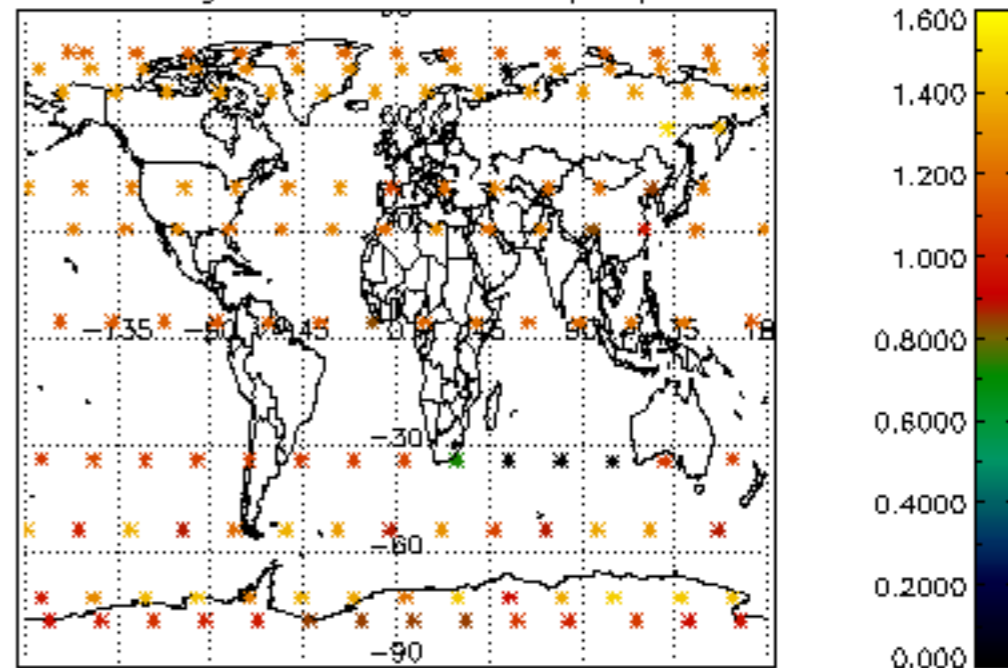
Percentage of saturation errors per profile



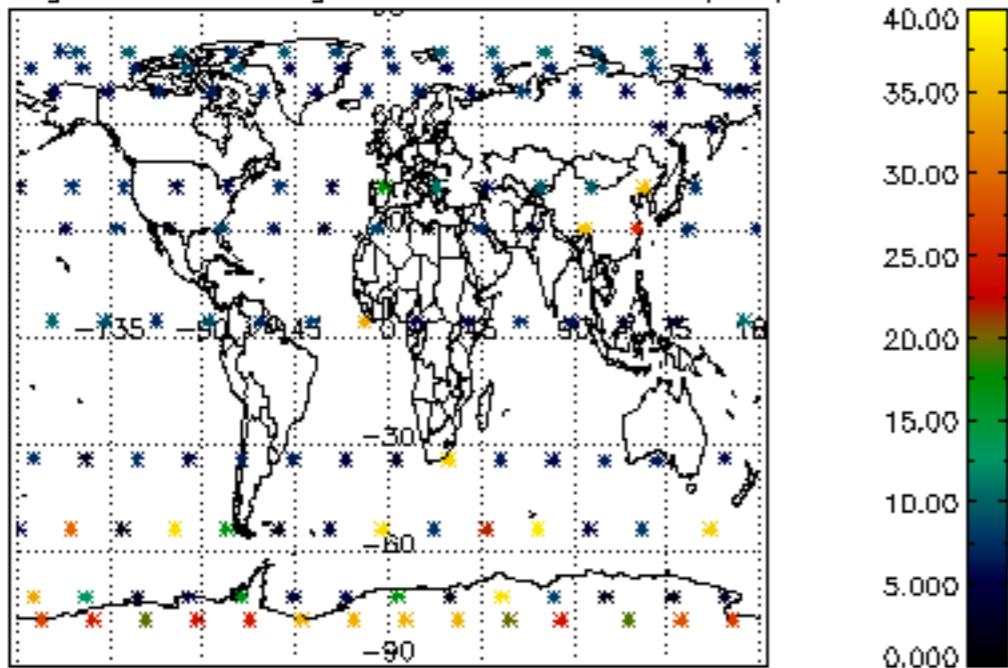
Percentage of cosmic ray hits per profile



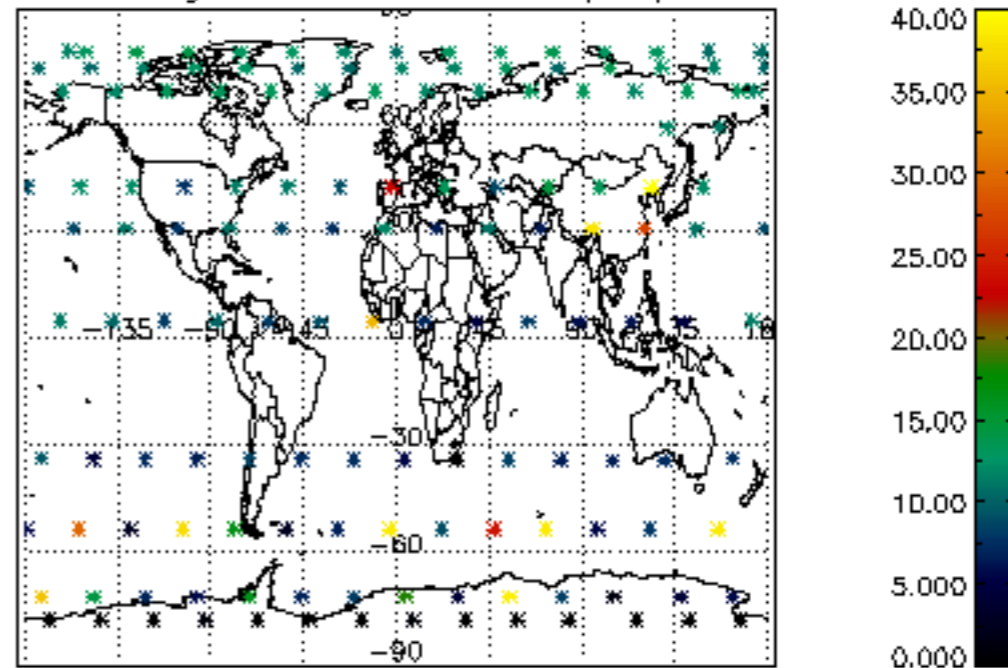
Percentage of datation errors per profile

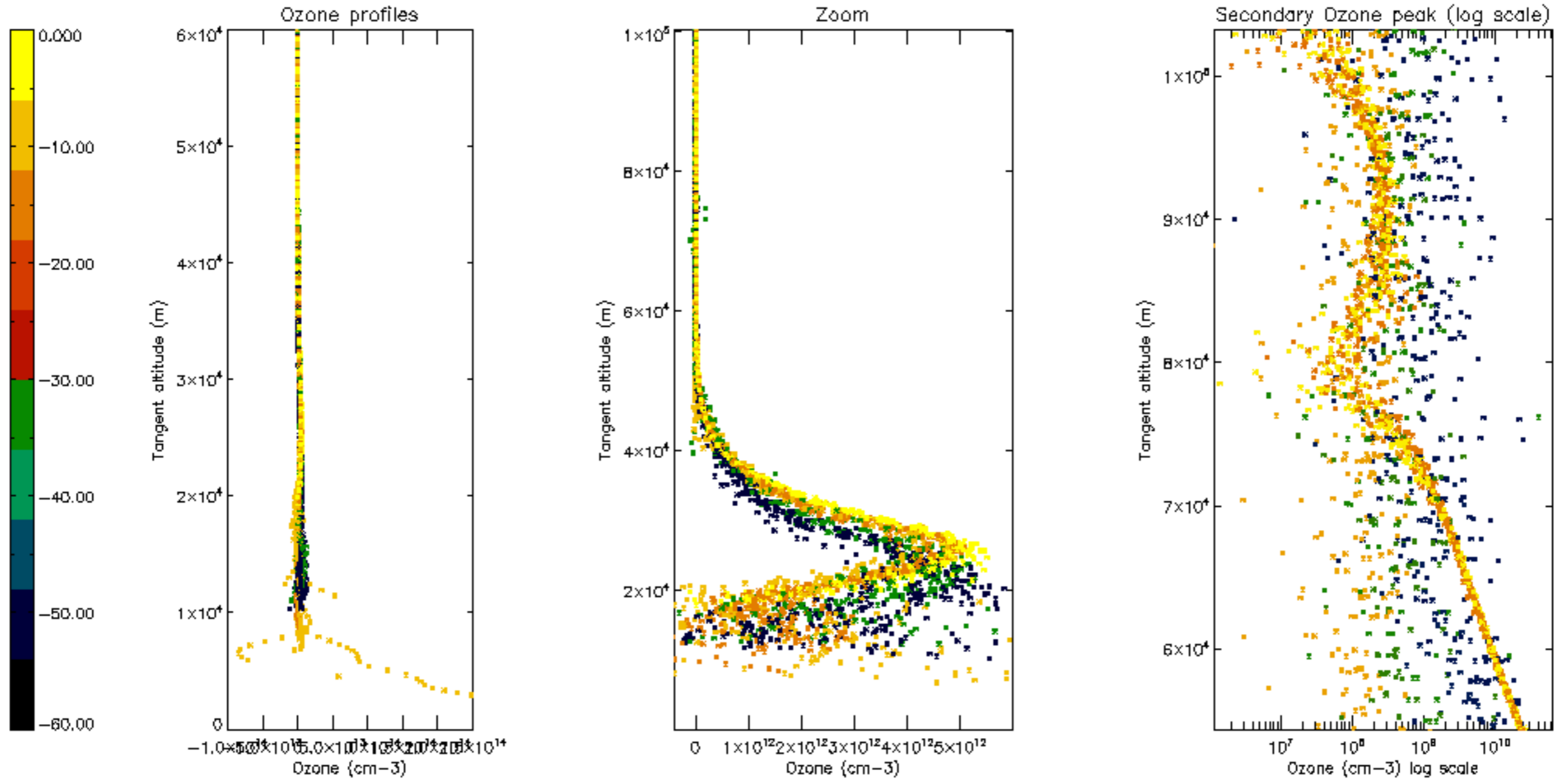


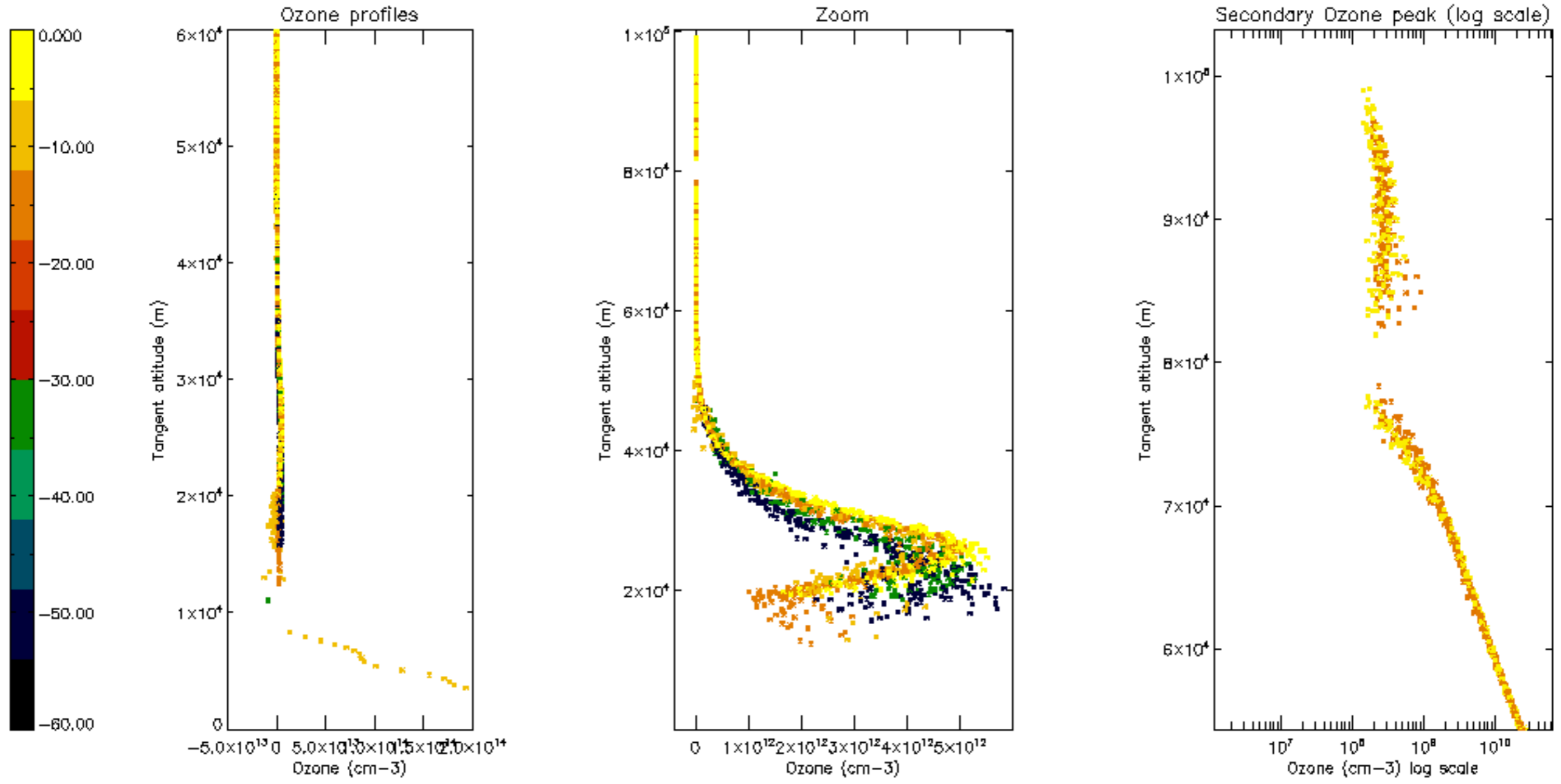
Percentage of star falling outside central band per profile

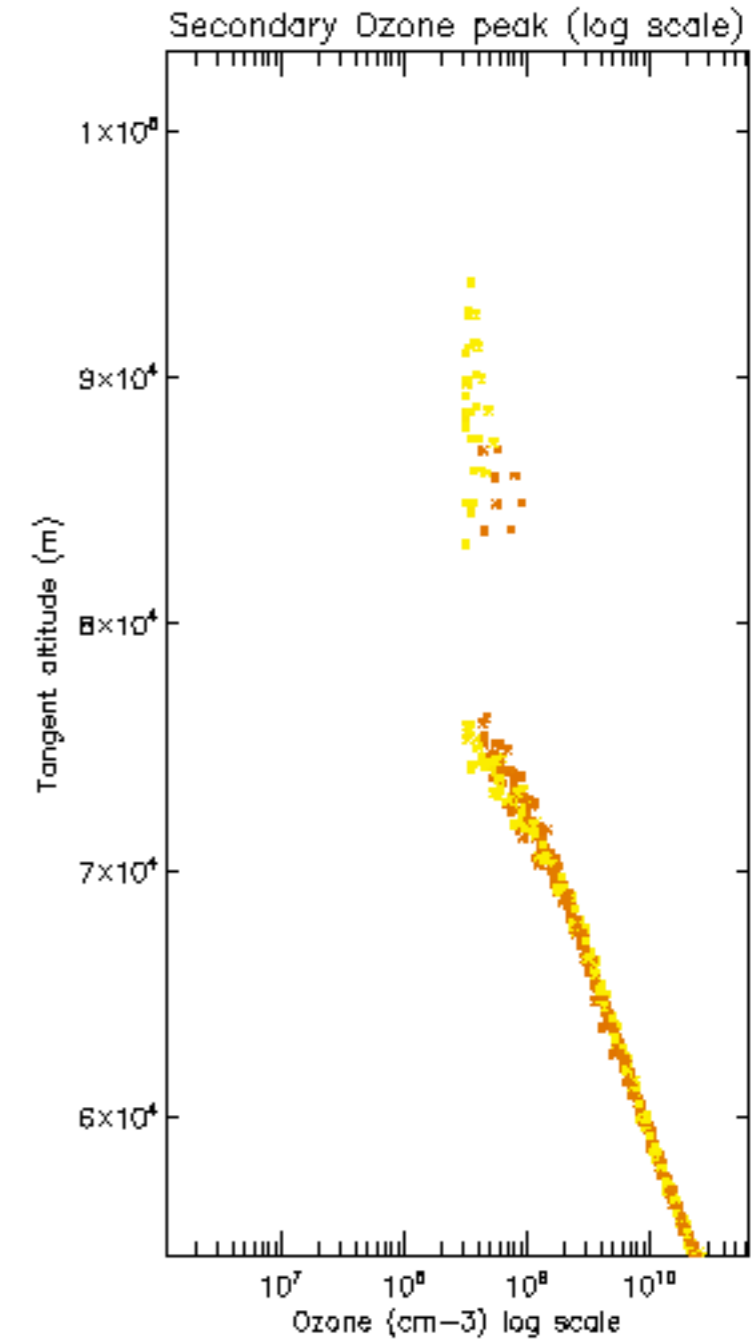
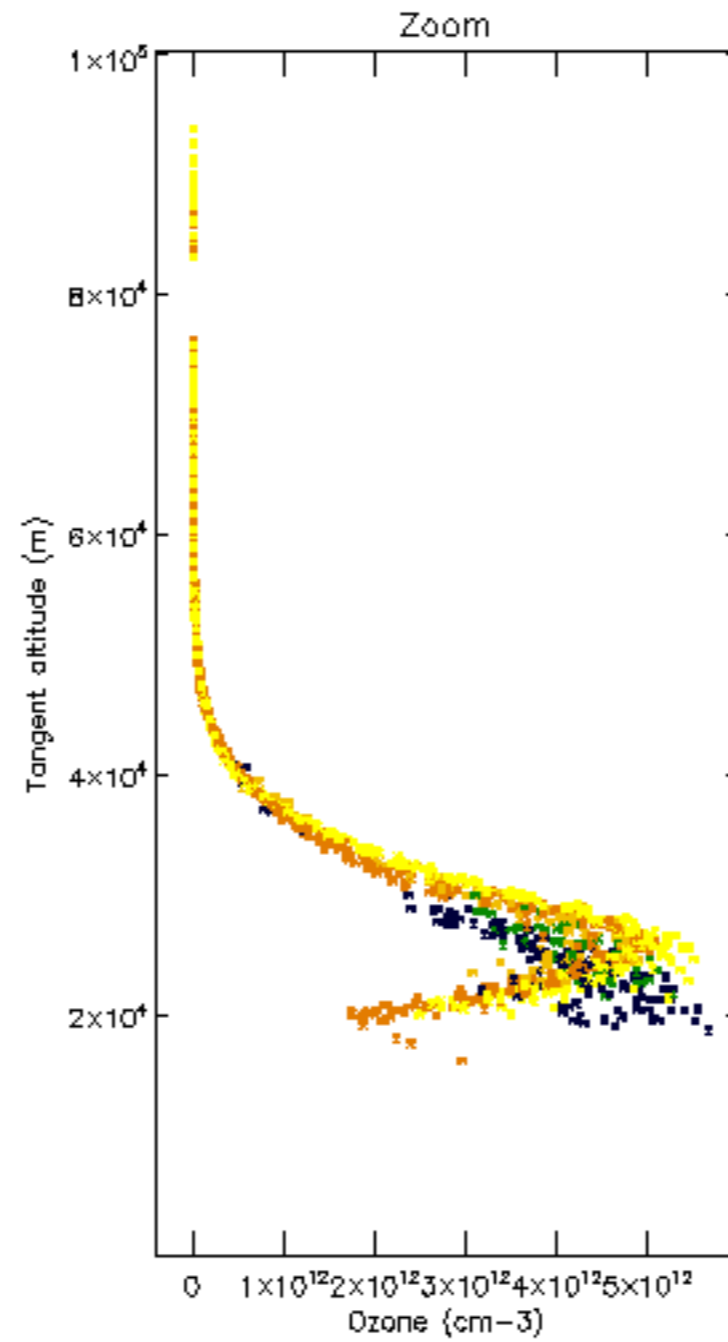
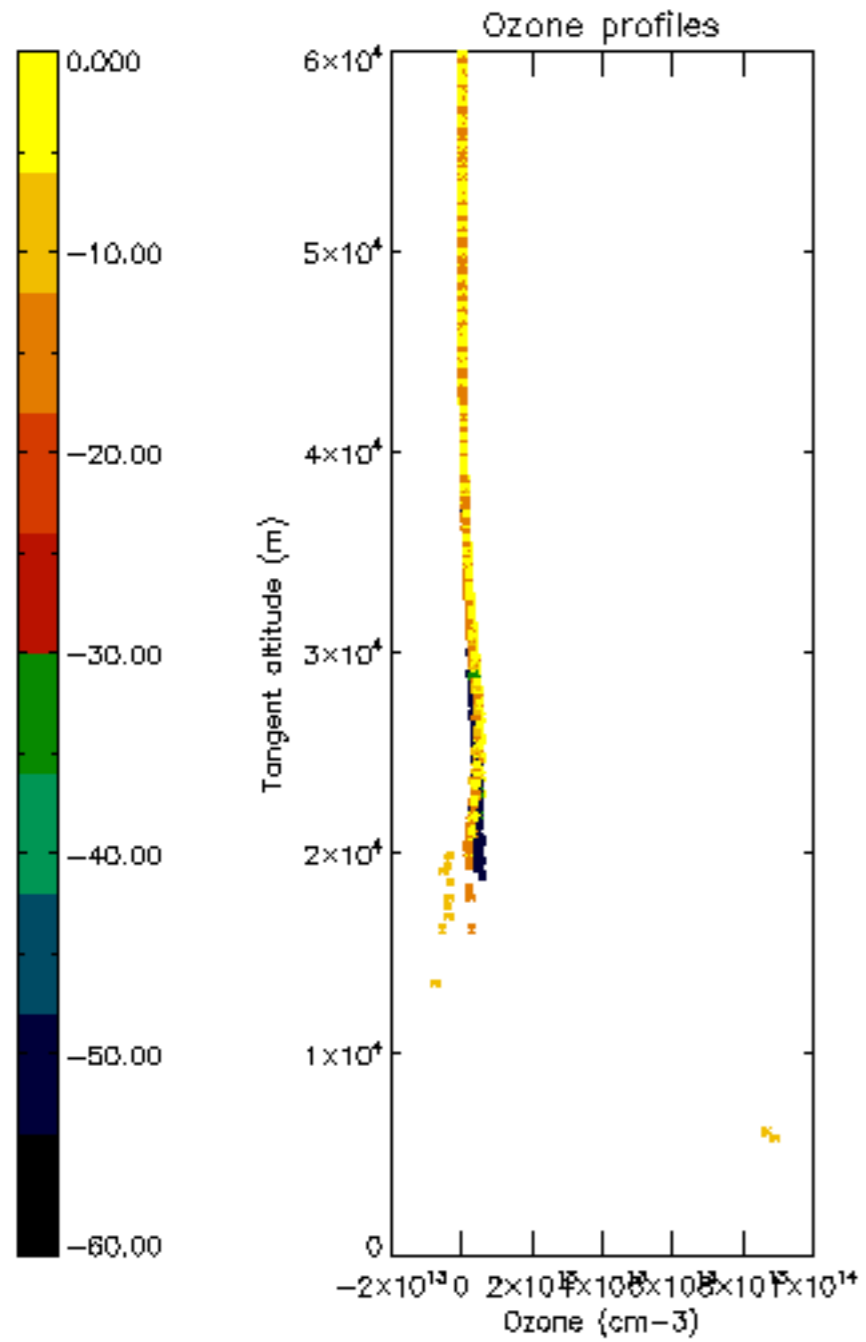


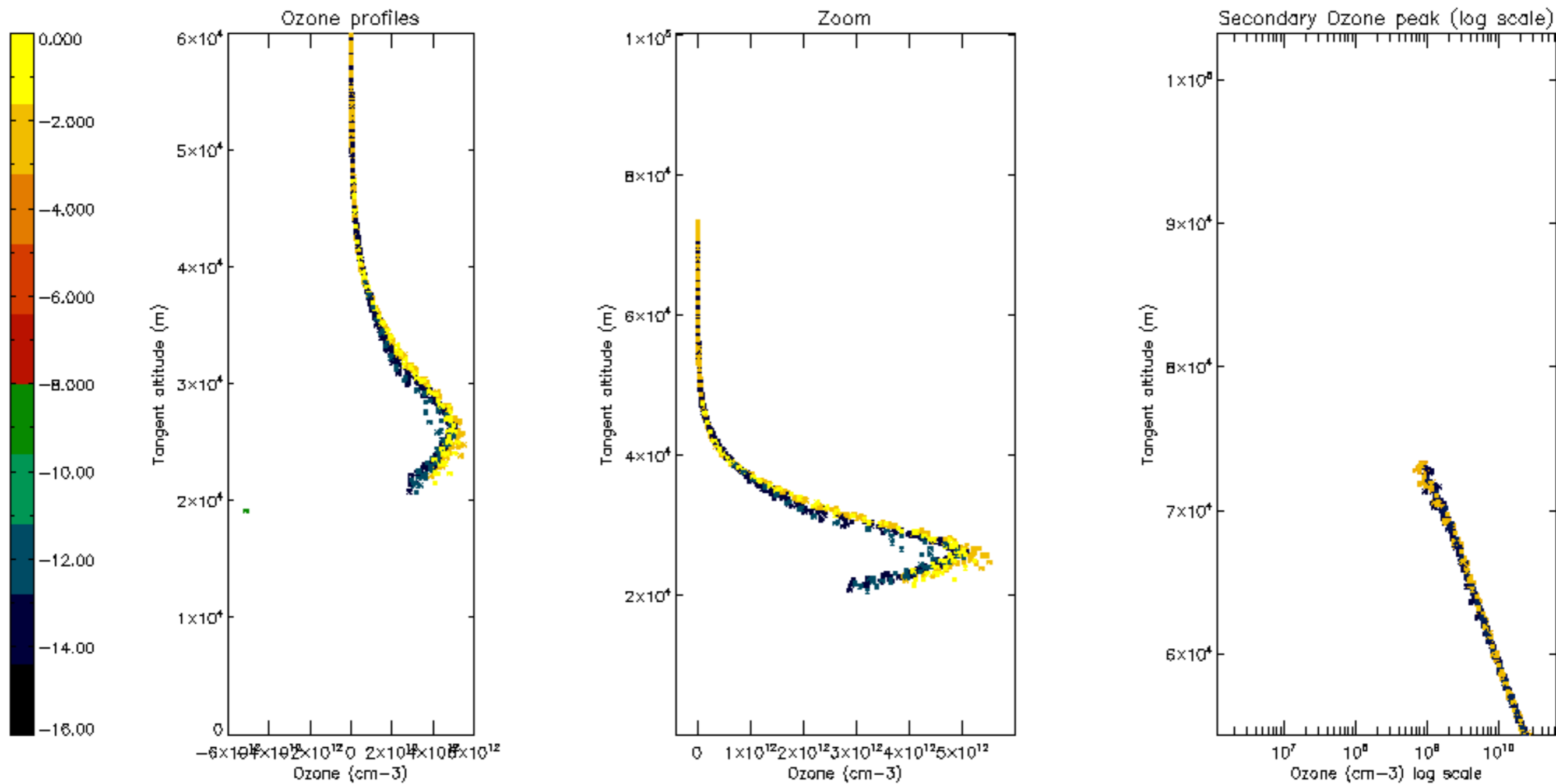
Percentage of saturation errors per profile

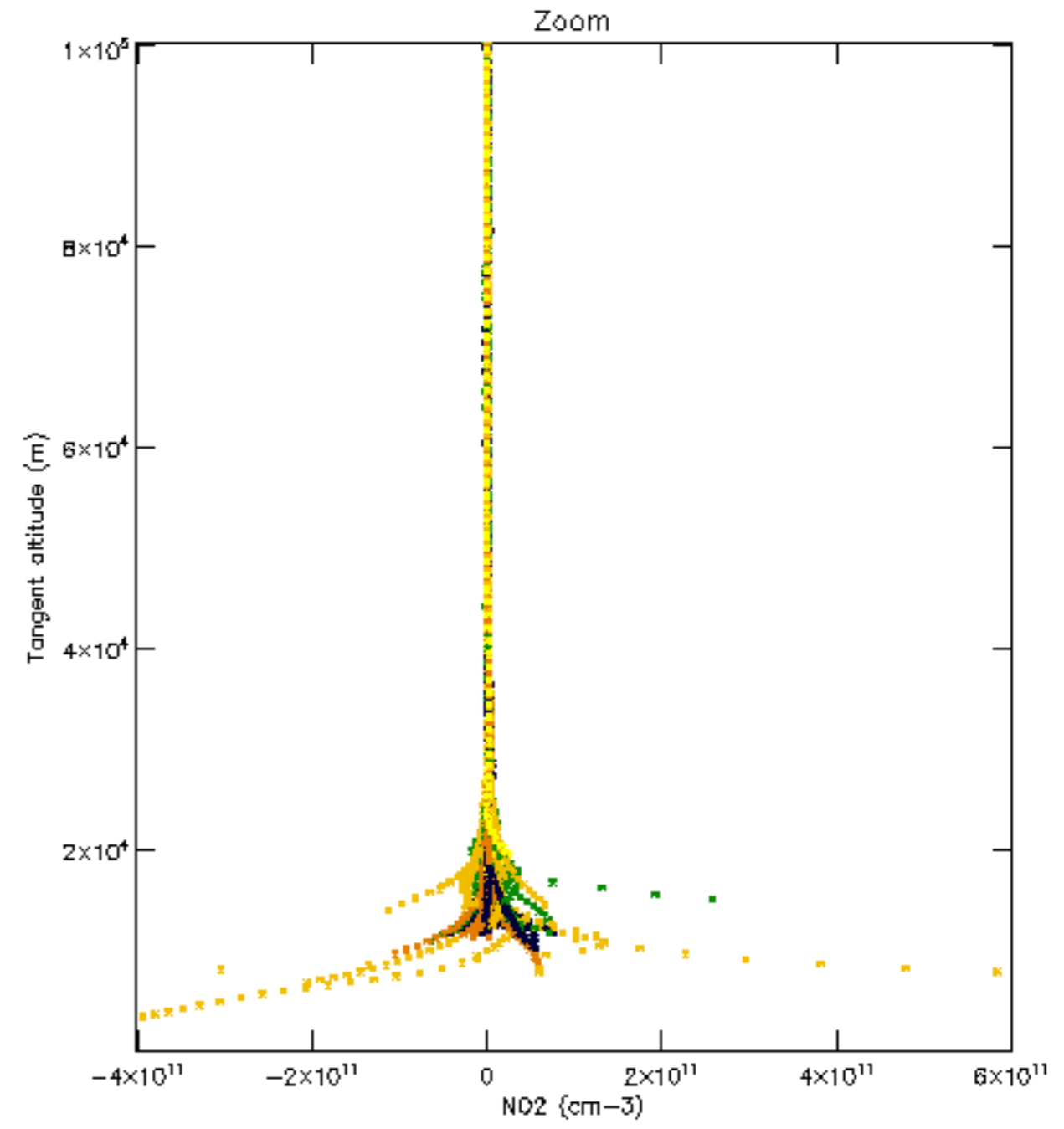
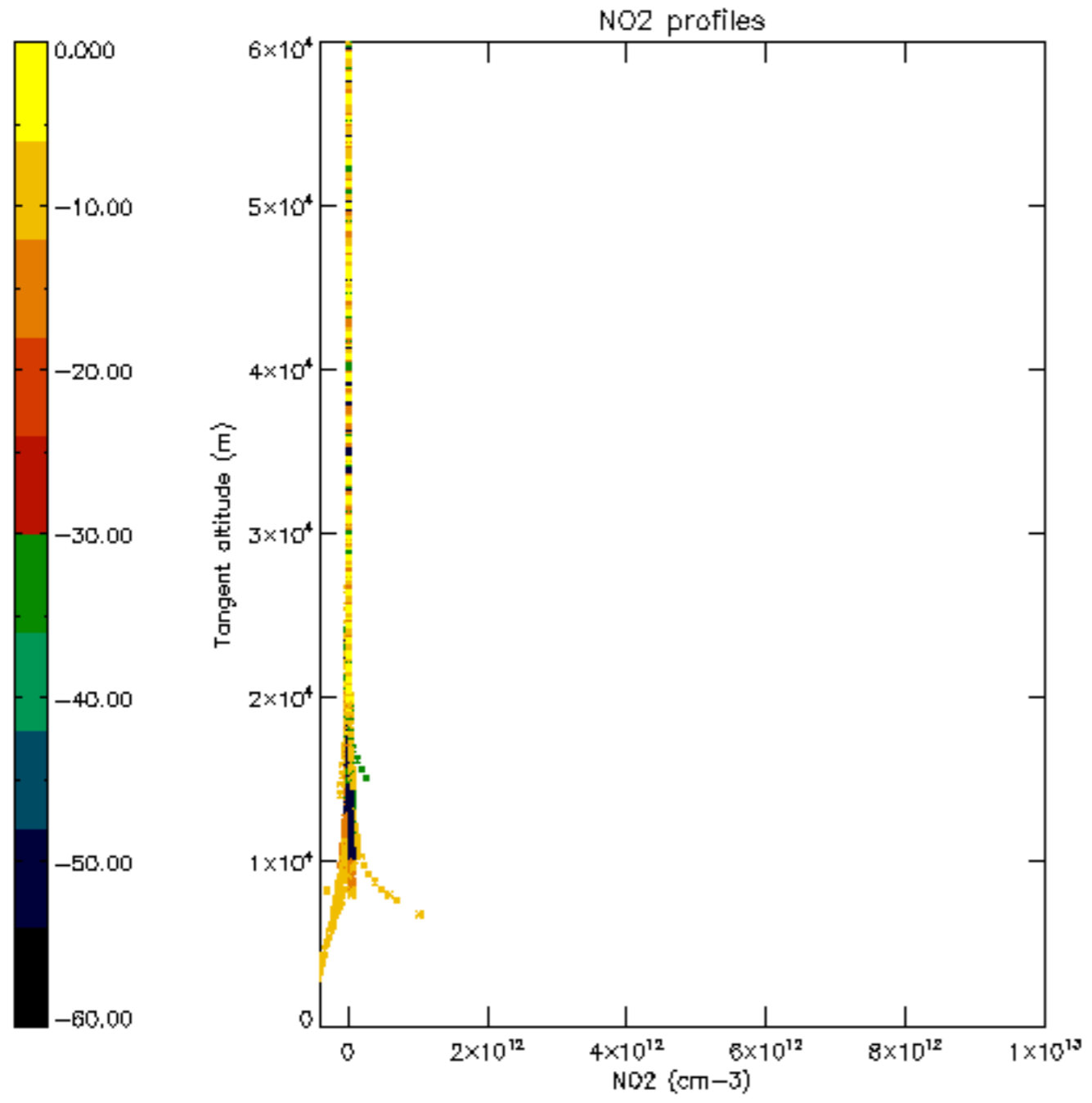


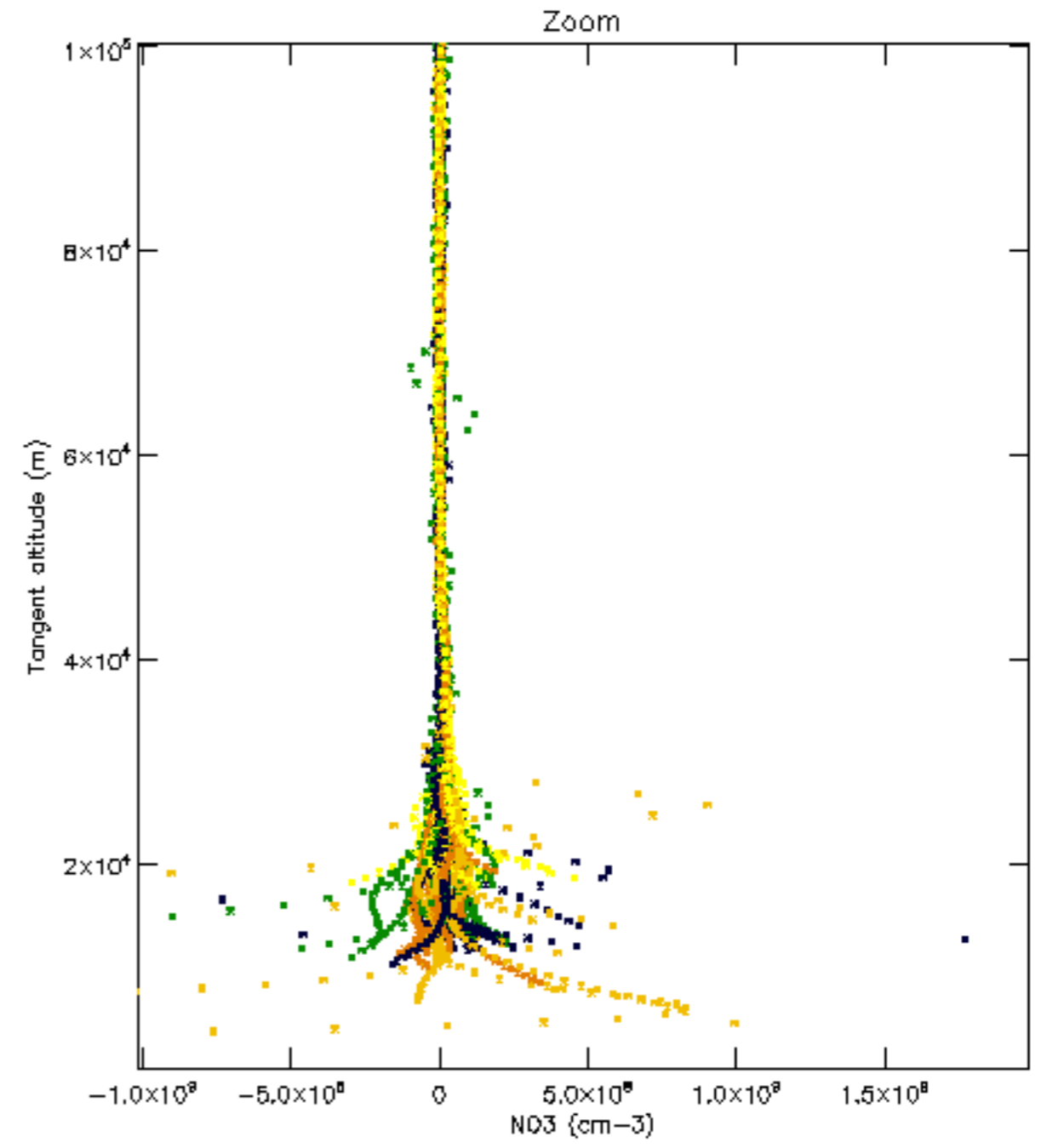
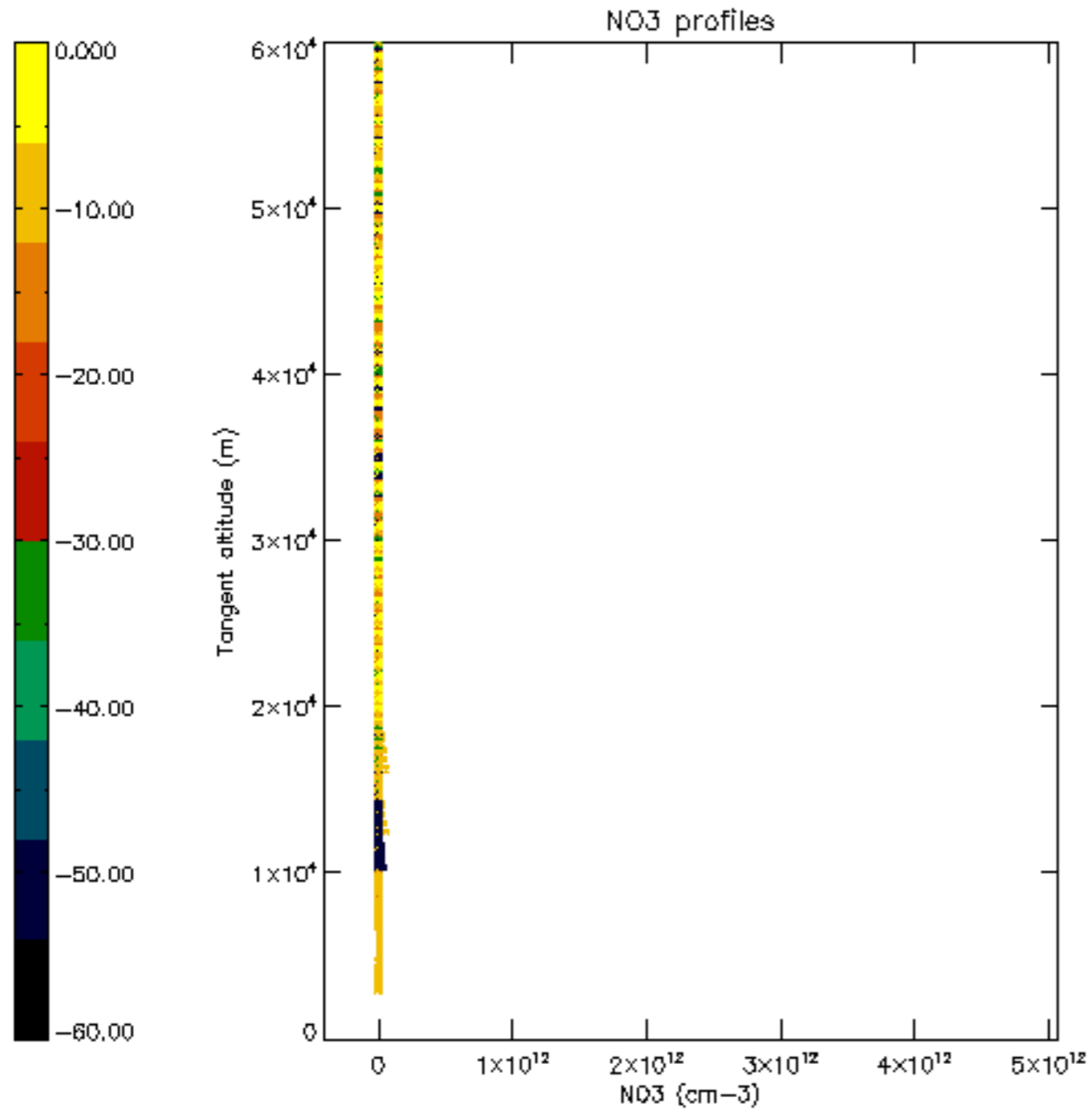


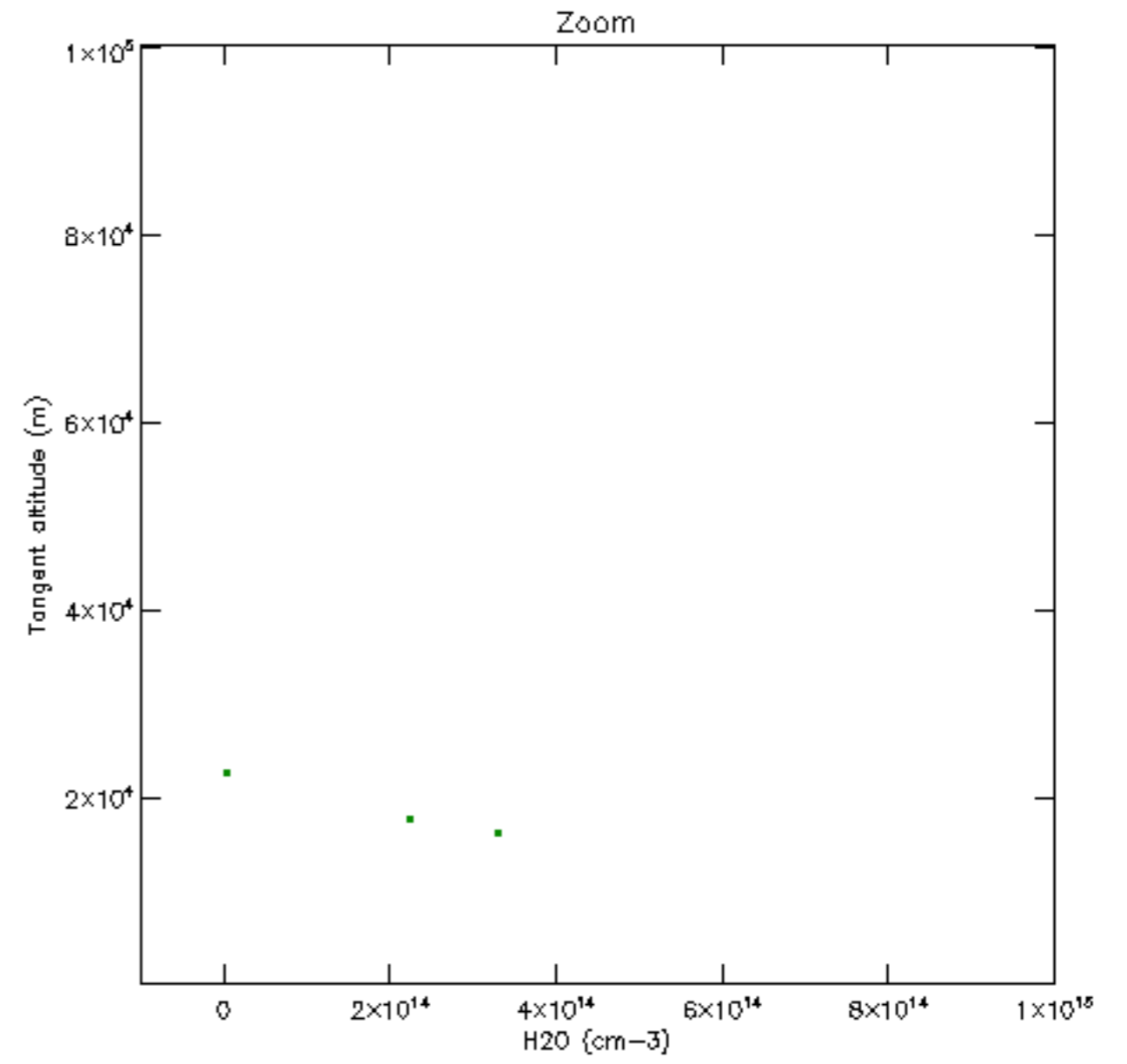
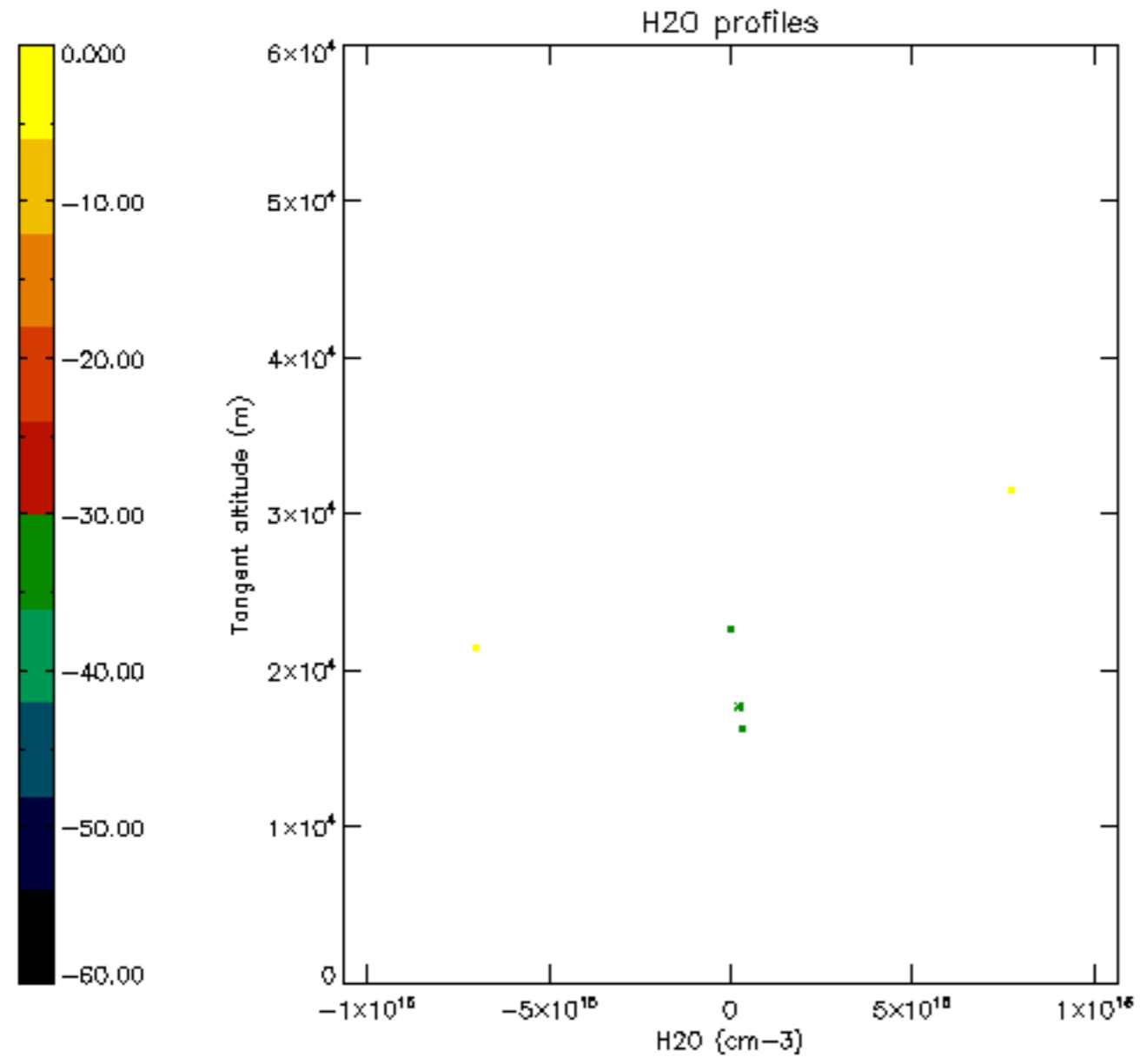


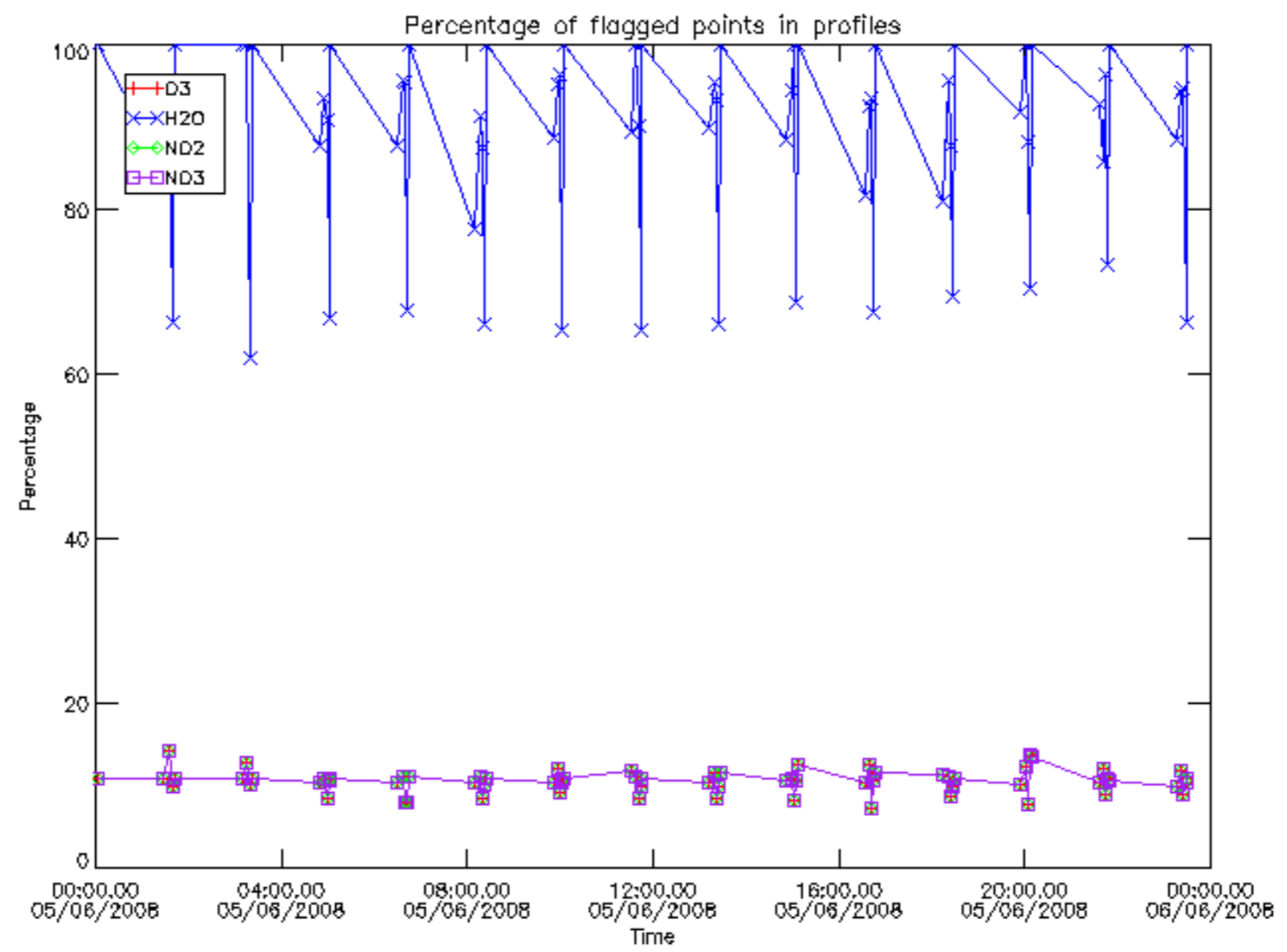




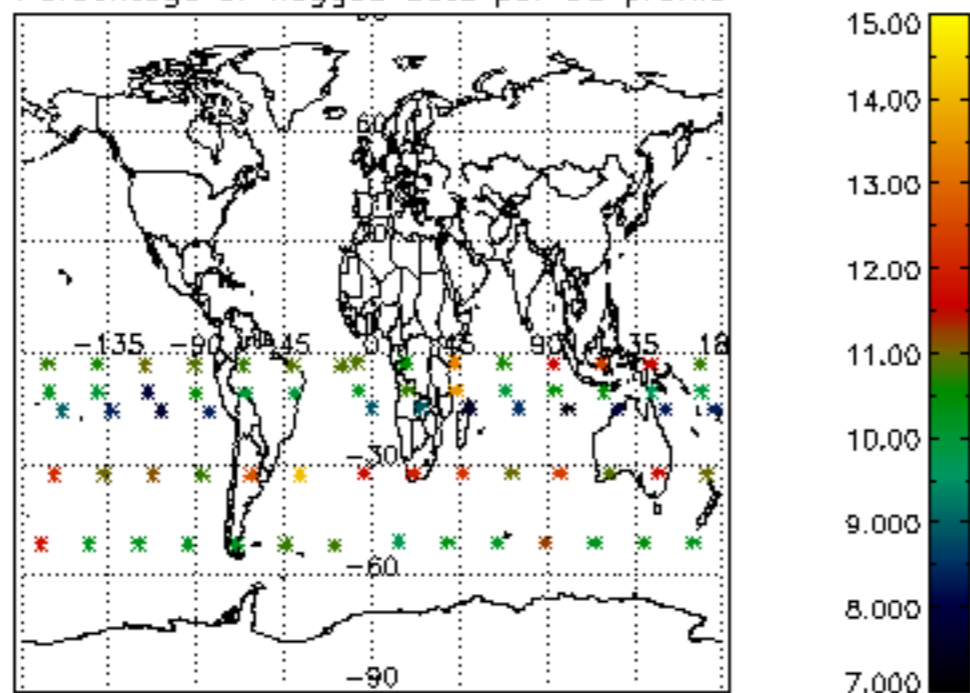




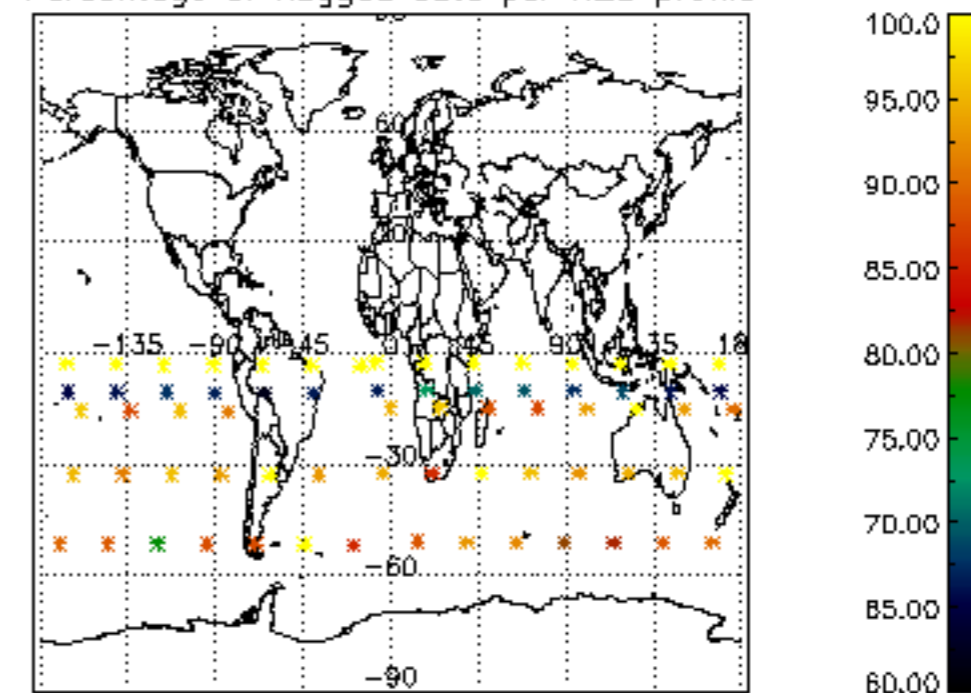




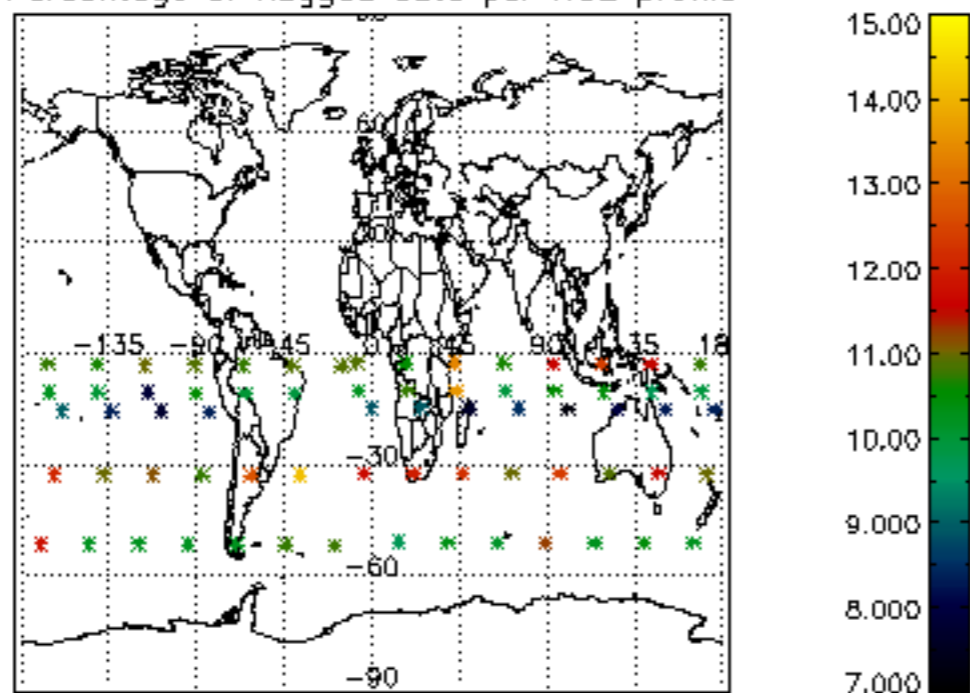
Percentage of flagged data per D3 profile



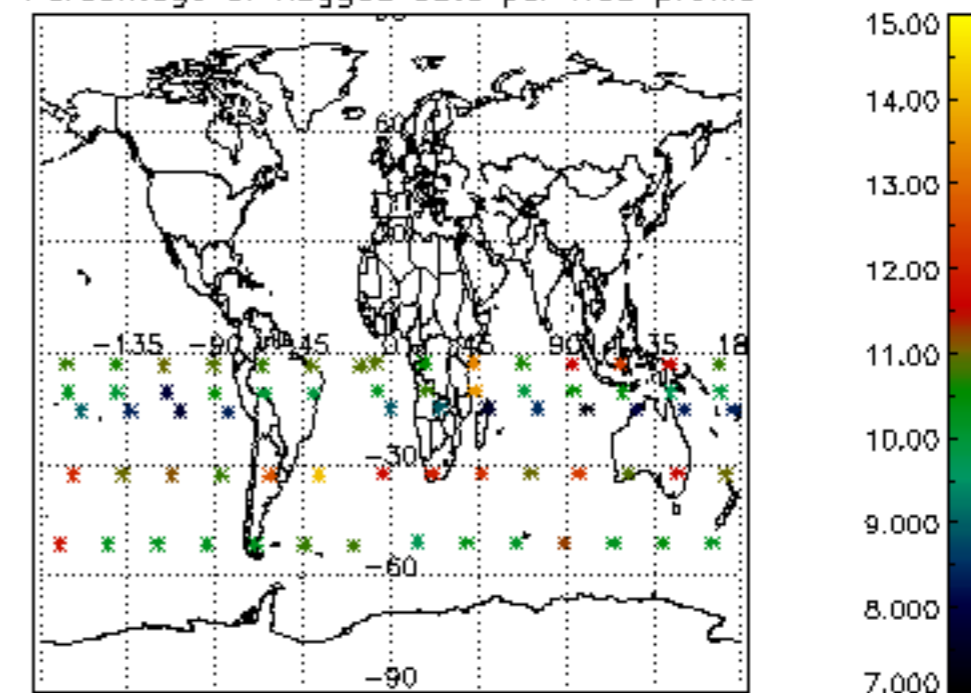
Percentage of flagged data per H2O profile

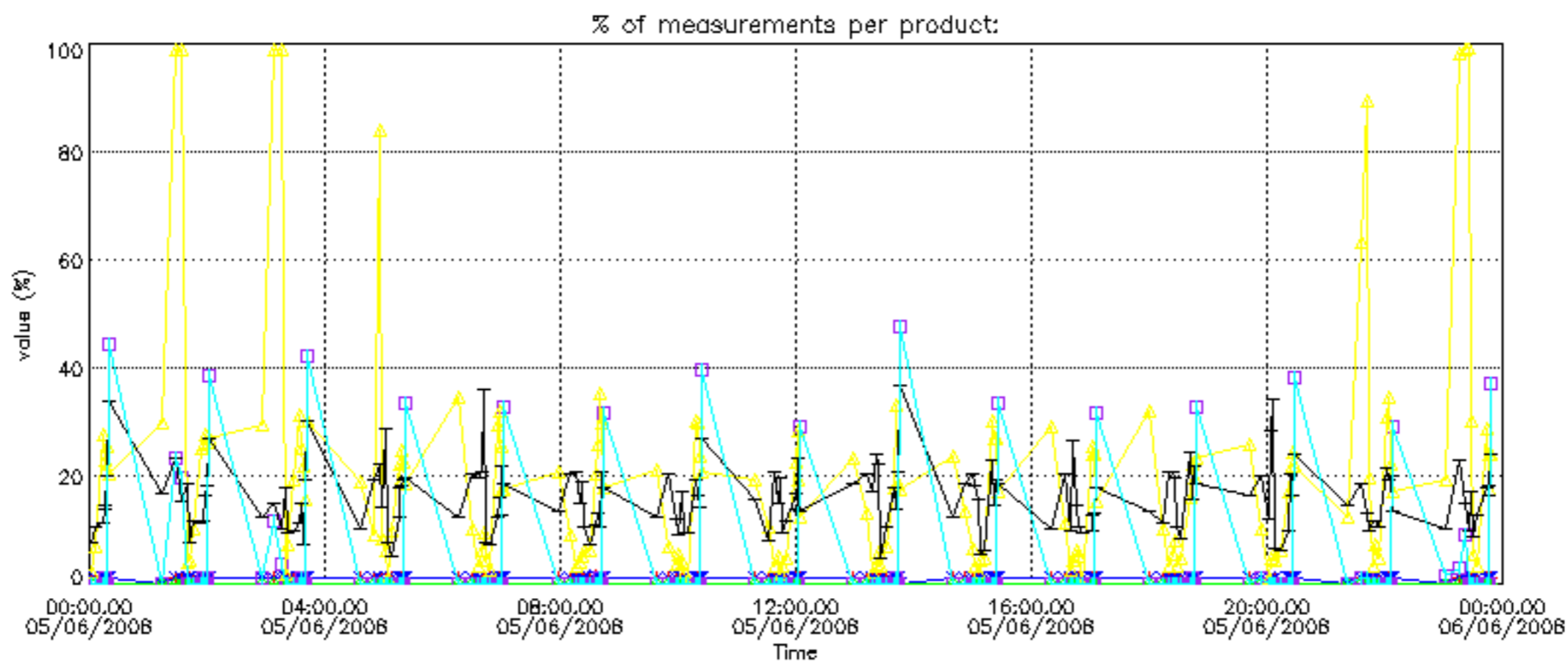


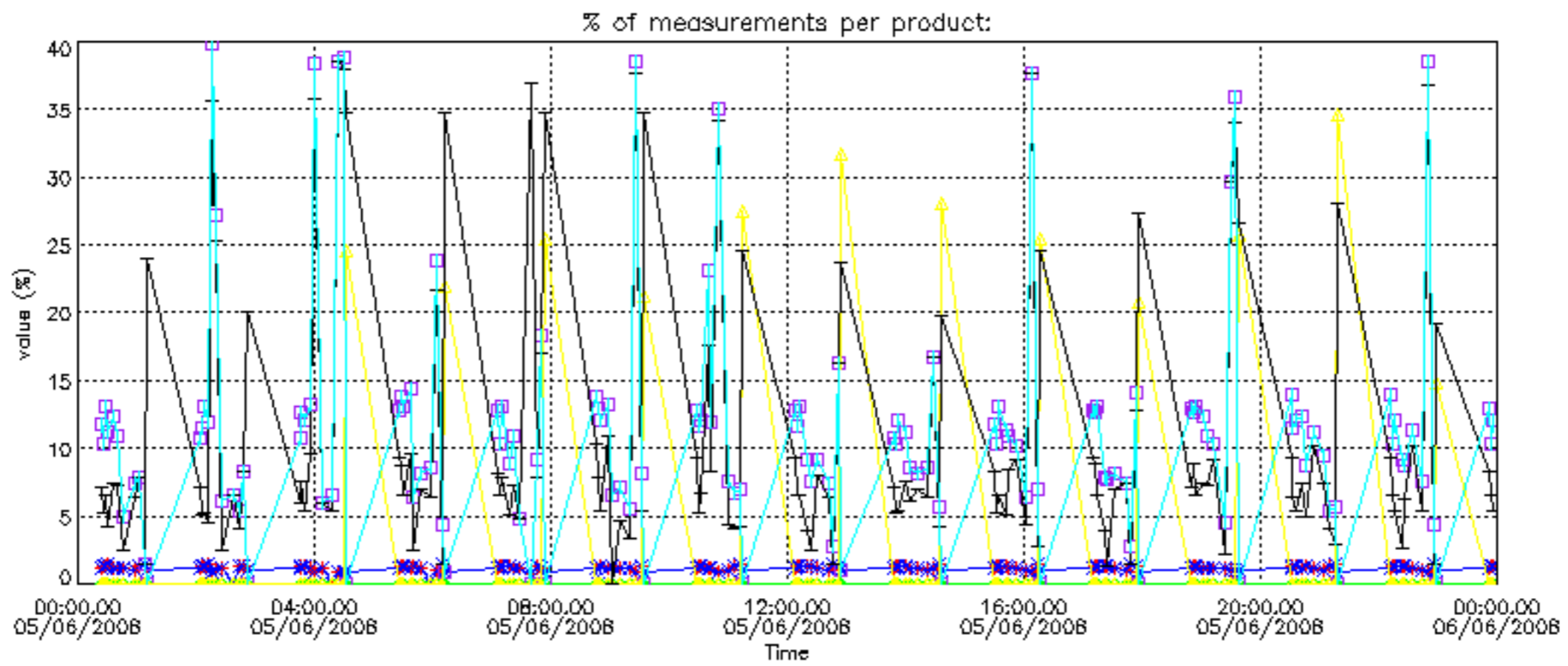
Percentage of flagged data per NO2 profile



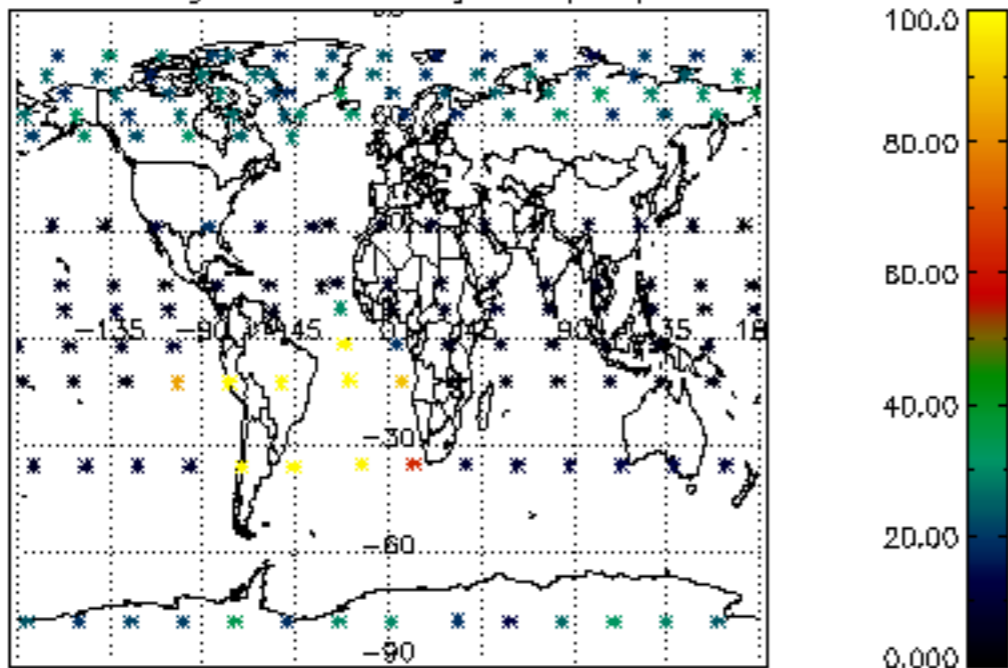
Percentage of flagged data per NO3 profile



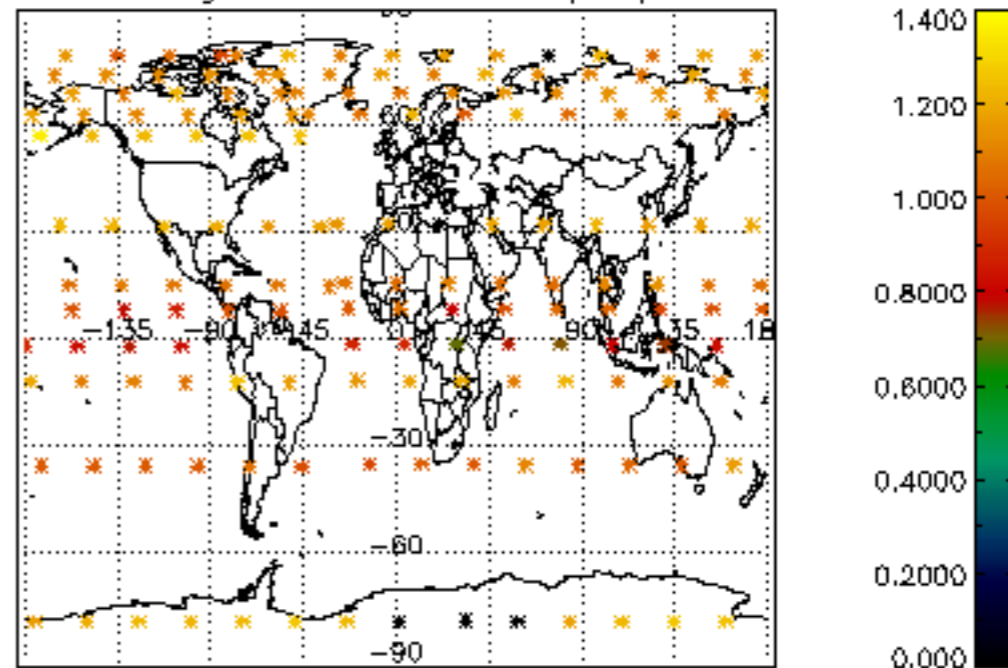




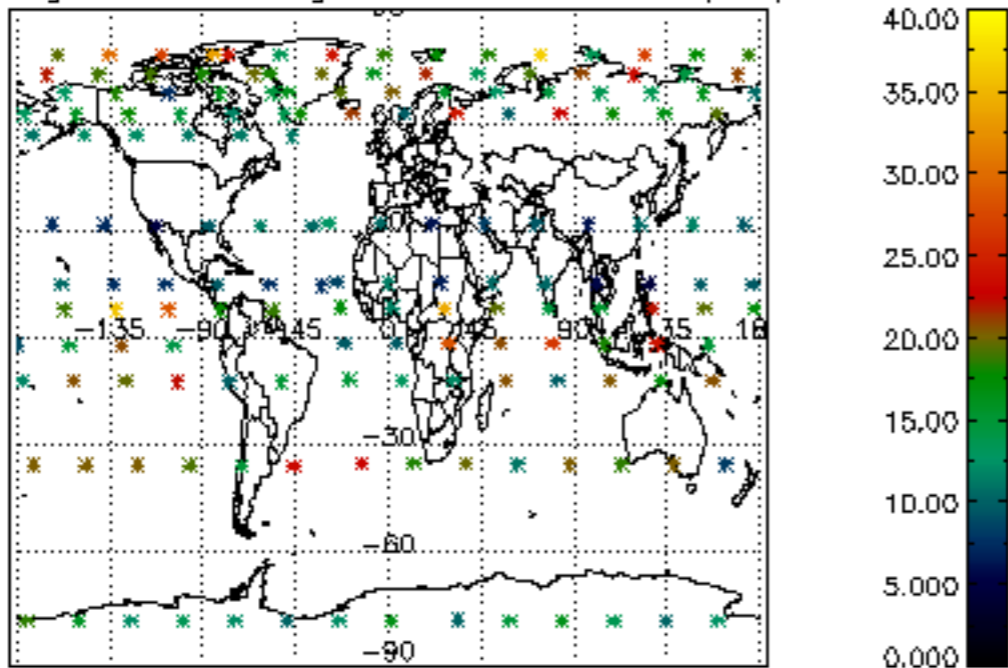
Percentage of cosmic ray hits per profile



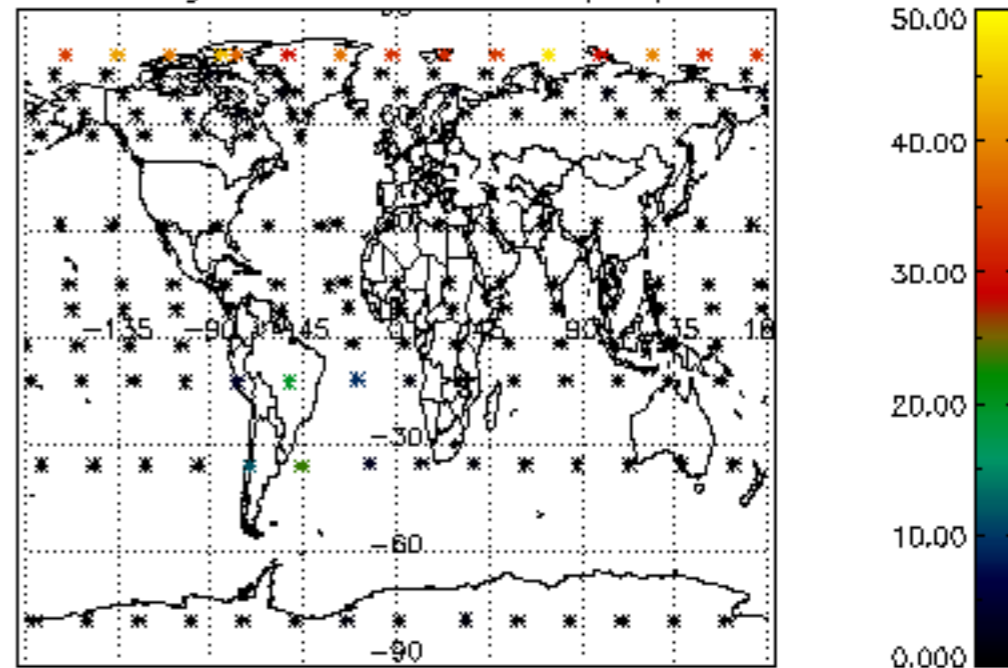
Percentage of datation errors per profile



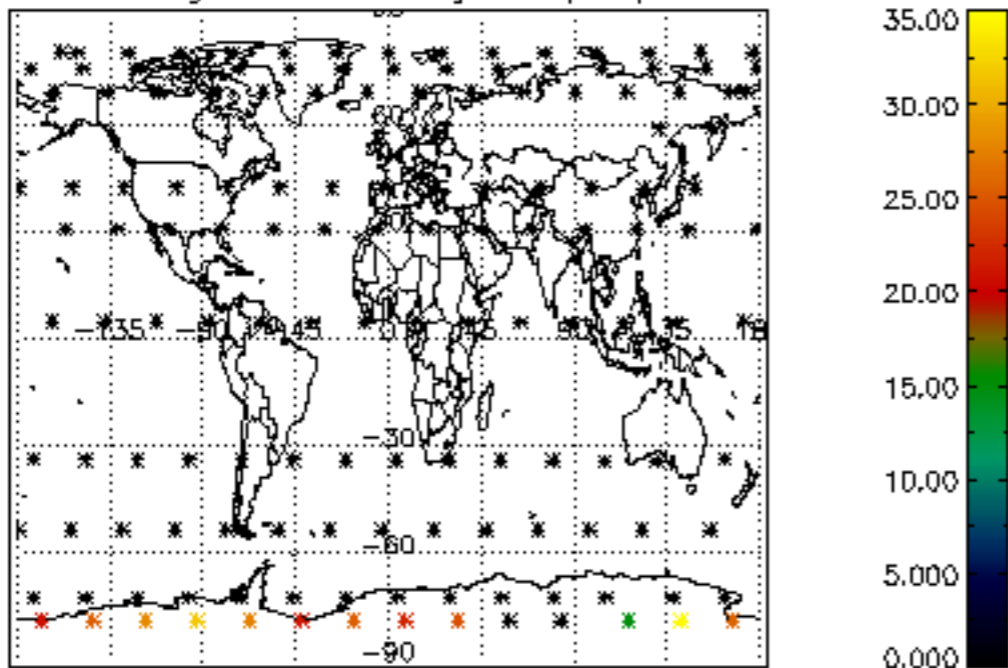
Percentage of star falling outside central band per profile



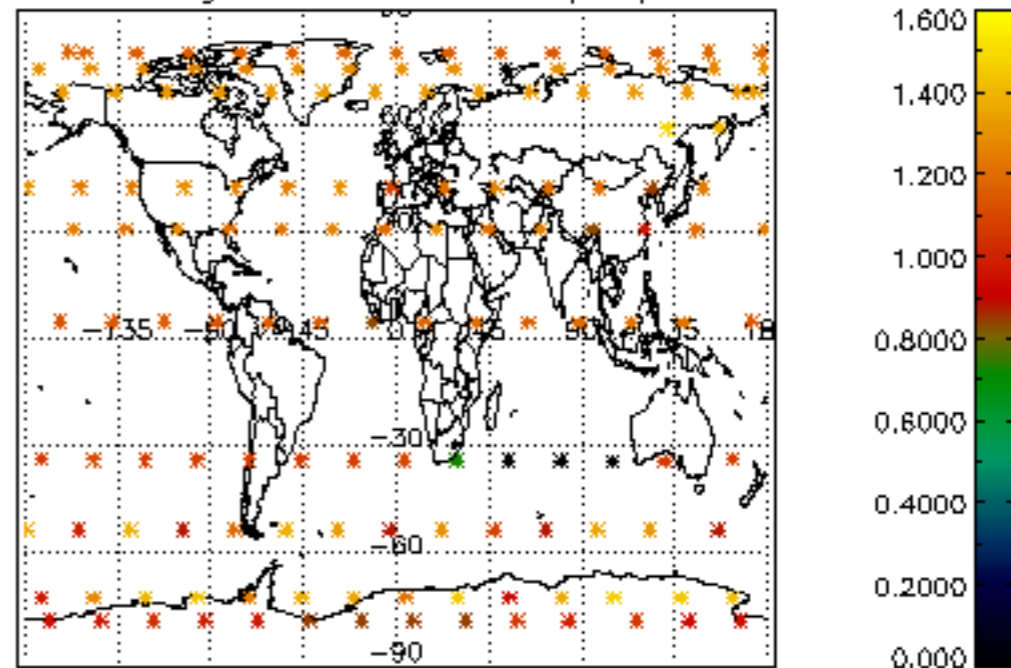
Percentage of saturation errors per profile



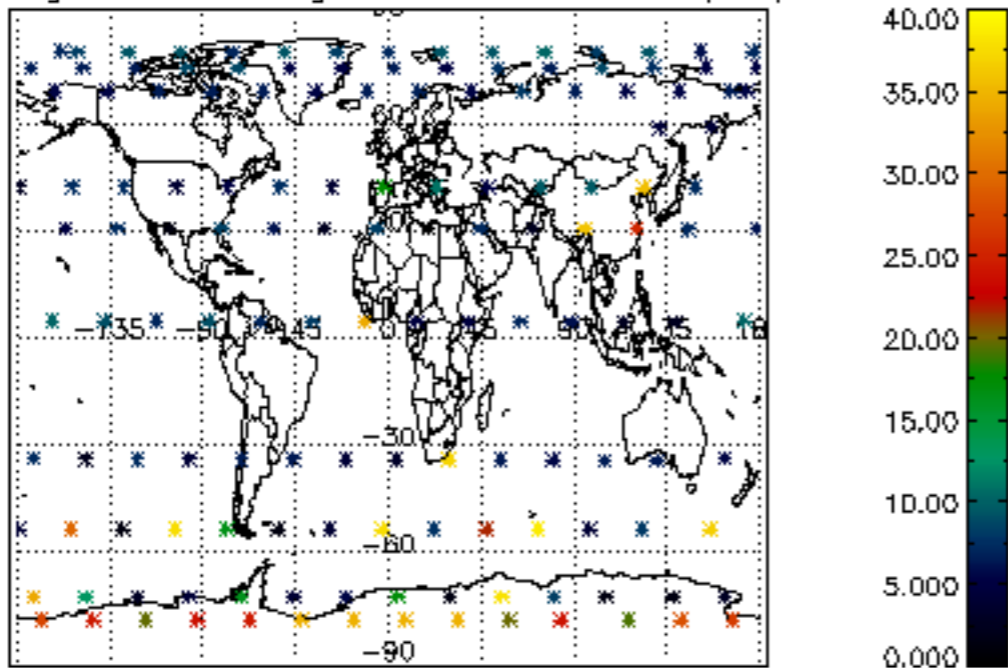
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

