

# GOMOS Level 2 Daily Report

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This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM\_NL\_\_2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	22APR2013 12:59:50
Data source version	GOMOS/6.01
Start time of products	26-01-2007 (26JAN2007 00:00:00)
Stop time of products	27-01-2007 (27JAN2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	377
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__2PRFIN20070126_000052_000000402055_00045_25650_4573.N1	26-JAN-2007 00:00:52	Dark	40.000	46	Del Vel	1.9540	10600.	80	25650	No
2	GOM_NL__2PRFIN20070126_000328_000000392055_00045_25650_4574.N1	26-JAN-2007 00:03:28	Dark	39.000	34	Gam2Vel	1.7930	23000.	78	25650	No
3	GOM_NL__2PRFIN20070126_000534_000000402055_00045_25650_4575.N1	26-JAN-2007 00:05:34	Straylight	40.000	70	Zet Pup	2.2460	39000.	80	25650	No
4	GOM_NL__2PRFIN20070126_000702_000000402055_00045_25650_4576.N1	26-JAN-2007 00:07:02	Straylight	40.000	117	Pi Pup	2.7060	3800.0	80	25650	No
5	GOM_NL__2PRFIN20070126_000930_000000382055_00045_25650_4577.N1	26-JAN-2007 00:09:30	Straylight	37.500	23	21Eps CMa	1.5020	26000.	75	25650	No
6	GOM_NL__2PRFIN20070126_001053_000000382055_00045_25650_4578.N1	26-JAN-2007 00:10:53	Straylight	38.000	179	24Omi2CMa	3.0320	24000.	76	25650	No
7	GOM_NL__2PRFIN20070126_001302_000000422055_00045_25650_4579.N1	26-JAN-2007 00:13:02	Straylight	42.000	1	9Alp CMa	-1.4400	11000.	84	25650	No
8	GOM_NL__2PRFIN20070126_001959_000000422055_00045_25650_4580.N1	26-JAN-2007 00:19:59	Twilight_stray	41.500	153	3Bet CMi	2.8940	13100.	83	25650	No
9	GOM_NL__2PRFIN20070126_002221_000000392055_00045_25650_4581.N1	26-JAN-2007 00:22:21	Bright	38.500	44	24Gam Gem	1.9280	11000.	77	25650	No
10	GOM_NL__2PRFIN20070126_002408_000000382055_00045_25650_4582.N1	26-JAN-2007 00:24:08	Bright	38.000	151	13Mu Gem	2.8900	3000.0	76	25650	No
11	GOM_NL__2PRFIN20070126_002822_000000362055_00045_25650_4583.N1	26-JAN-2007 00:28:22	Bright	35.500	107	37The Aur	2.6490	11000.	71	25650	No
12	GOM_NL__2PRFIN20070126_003030_000000362055_00045_25650_4584.N1	26-JAN-2007 00:30:30	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	25650	No
13	GOM_NL__2PRFIN20070126_004258_000000342055_00045_25650_4585.N1	26-JAN-2007 00:42:58	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	25650	No
14	GOM_NL__2PRFIN20070126_005358_000000372055_00045_25650_4586.N1	26-JAN-2007 00:53:58	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	25650	No
15	GOM_NL__2PRFIN20070126_005723_000000362055_00045_25650_4587.N1	26-JAN-2007 00:57:23	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	25650	No
16	GOM_NL__2PRFIN20070126_010525_000000342055_00045_25650_4588.N1	26-JAN-2007 01:05:25	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	25650	No
17	GOM_NL__2PRFIN20070126_010732_000000342055_00045_25650_4589.N1	26-JAN-2007 01:07:32	Bright	34.000	126	60Bet Oph	2.7700	4250.0	68	25650	No
18	GOM_NL__2PRFIN20070126_011346_000000412055_00045_25650_4590.N1	26-JAN-2007 01:13:46	Bright	40.500	86	35Eta Oph	2.4300	10200.	81	25650	No
19	GOM_NL__2PRFIN20070126_011748_000000532055_00045_25650_4591.N1	26-JAN-2007 01:17:48	Dark	52.500	16	21Alp Sco	1.0200	3000.0	105	25650	No
20	GOM_NL__2PRFIN20070126_011912_000000442055_00045_25650_4592.N1	26-JAN-2007 01:19:12	Dark	43.500	75	26Eps Sco	2.2910	4250.0	87	25650	No
21	GOM_NL__2PRFIN20070126_012728_000000402055_00046_25651_4583.N1	26-JAN-2007 01:27:28	Dark	39.500	134	Bet TrA	2.8100	6600.0	79	25651	No
22	GOM_NL__2PRFIN20070126_012856_000000442055_00046_25651_4584.N1	26-JAN-2007 01:28:56	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	25651	No
23	GOM_NL__2PRFIN20070126_013330_000000472055_00046_25651_4585.N1	26-JAN-2007 01:33:30	Dark	47.000	12	Alp1Cru	0.77500	30000.	94	25651	No
24	GOM_NL__2PRFIN20070126_013728_000000382055_00046_25651_4586.N1	26-JAN-2007 01:37:28	Dark	37.500	29	Bet Car	1.6720	10200.	75	25651	No
25	GOM_NL__2PRFIN20070126_013941_000000392055_00046_25651_4587.N1	26-JAN-2007 01:39:41	Dark	38.500	71	lot Car	2.2460	7700.0	77	25651	No
26	GOM_NL__2PRFIN20070126_014128_000000402055_00046_25651_4588.N1	26-JAN-2007 01:41:28	Dark	39.500	46	Del Vel	1.9540	10600.	79	25651	No
27	GOM_NL__2PRFIN20070126_014404_000000402055_00046_25651_4589.N1	26-JAN-2007 01:44:04	Dark	39.500	34	Gam2Vel	1.7930	23000.	79	25651	No
28	GOM_NL__2PRFIN20070126_014610_000000412055_00046_25651_4590.N1	26-JAN-2007 01:46:10	Straylight	40.500	70	Zet Pup	2.2460	39000.	81	25651	No
29	GOM_NL__2PRFIN20070126_014738_000000412055_00046_25651_4591.N1	26-JAN-2007 01:47:38	Straylight	40.500	117	Pi Pup	2.7060	3800.0	81	25651	No
30	GOM_NL__2PRFIN20070126_015006_000000412055_00046_25651_4592.N1	26-JAN-2007 01:50:06	Straylight	40.500	23	21Eps CMa	1.5020	26000.	81	25651	No
31	GOM_NL__2PRFIN20070126_015129_000000372055_00046_25651_4593.N1	26-JAN-2007 01:51:29	Straylight	37.000	179	24Omi2CMa	3.0320	24000.	74	25651	No
32	GOM_NL__2PRFIN20070126_015339_000000512055_00046_25651_4594.N1	26-JAN-2007 01:53:39	Straylight	51.000	1	9Alp CMa	-1.4400	11000.	102	25651	No
33	GOM_NL__2PRFIN20070126_020035_000000422055_00046_25651_4595.N1	26-JAN-2007 02:00:35	Twilight_stray	41.500	153	3Bet CMi	2.8940	13100.	83	25651	No
34	GOM_NL__2PRFIN20070126_020257_000000382055_00046_25651_4596.N1	26-JAN-2007 02:02:57	Bright	38.000	44	24Gam Gem	1.9280	11000.	76	25651	No
35	GOM_NL__2PRFIN20070126_020444_000000372055_00046_25651_4597.N1	26-JAN-2007 02:04:44	Bright	37.000	151	13Mu Gem	2.8900	3000.0	74	25651	No
36	GOM_NL__2PRFIN20070126_020859_000000352055_00046_25651_4598.N1	26-JAN-2007 02:08:59	Bright	35.000	107	37The Aur	2.6490	11000.	70	25651	No
37	GOM_NL__2PRFIN20070126_021106_000000362055_00046_25651_4599.N1	26-JAN-2007 02:11:06	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	25651	No
38	GOM_NL__2PRFIN20070126_022334_000000362055_00046_25651_4600.N1	26-JAN-2007 02:23:34	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	25651	No
39	GOM_NL__2PRFIN20070126_023434_000000362055_00046_25651_4601.N1	26-JAN-2007 02:34:34	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	25651	No
40	GOM_NL__2PRFIN20070126_023759_000000352055_00046_25651_4602.N1	26-JAN-2007 02:37:59	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	25651	No
41	GOM_NL__2PRFIN20070126_024602_000000342055_00046_25651_4603.N1	26-JAN-2007 02:46:02	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	25651	No
42	GOM_NL__2PRFIN20070126_024808_000000342055_00046_25651_4604.N1	26-JAN-2007 02:48:08	Bright	33.500	126	60Bet Oph	2.7700	4250.0	67	25651	No











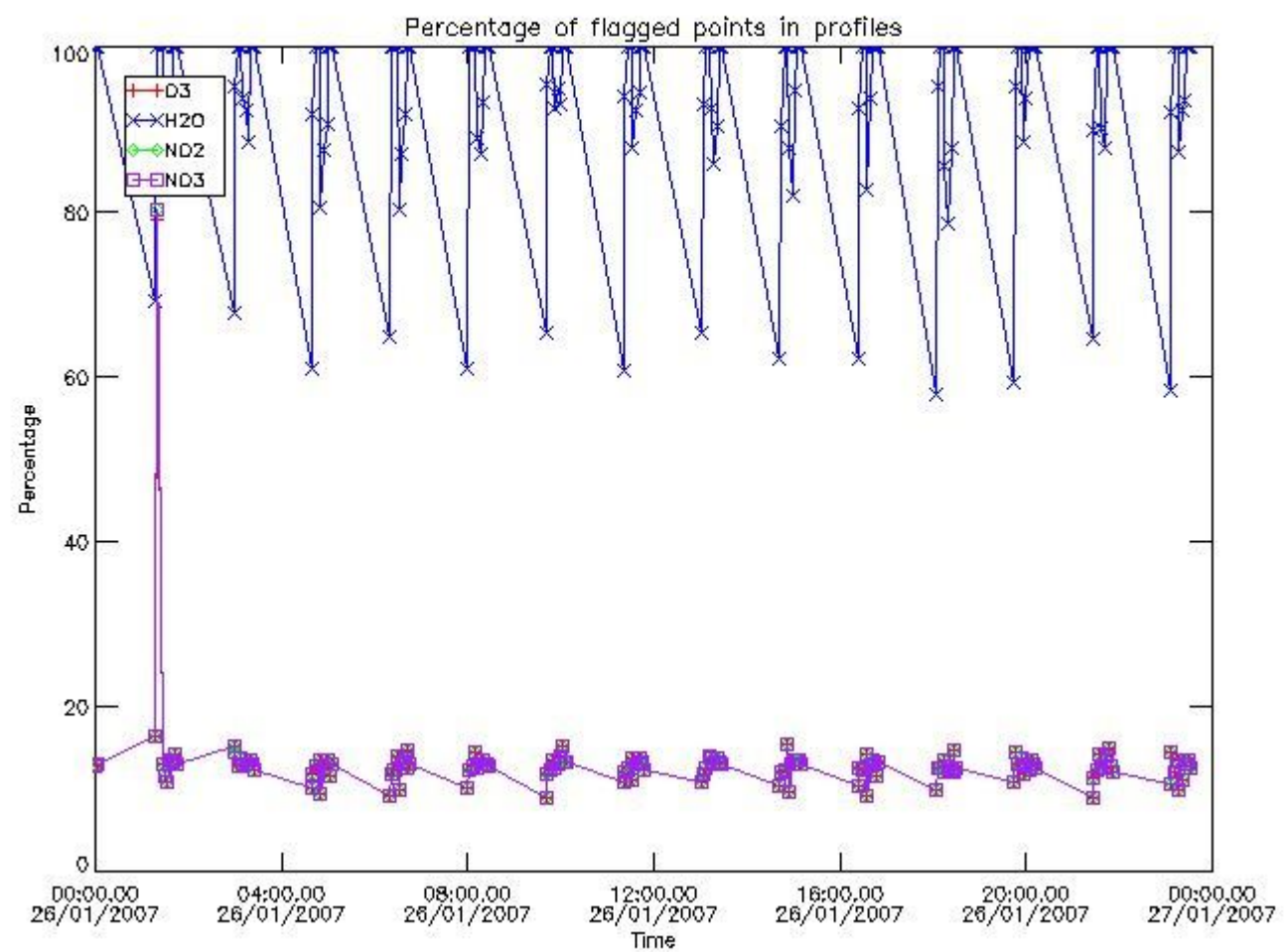
338	GOM_NL__2PRFIN20070126_214442_000000372055_00058_25663_4767.N1	26-JAN-2007 21:44:42	Dark	36.500	29	Bet Car	1.6720	10200.	73	25663	No
339	GOM_NL__2PRFIN20070126_214656_000000382055_00058_25663_4768.N1	26-JAN-2007 21:46:56	Dark	37.500	71	lot Car	2.2460	7700.0	75	25663	No
340	GOM_NL__2PRFIN20070126_214844_000000402055_00058_25663_4769.N1	26-JAN-2007 21:48:44	Dark	40.000	46	Del Vel	1.9540	10600.	80	25663	No
341	GOM_NL__2PRFIN20070126_215119_000000422055_00058_25663_4770.N1	26-JAN-2007 21:51:19	Dark	42.000	34	Gam2Vel	1.7930	23000.	84	25663	No
342	GOM_NL__2PRFIN20070126_215325_000000402055_00058_25663_4771.N1	26-JAN-2007 21:53:25	Straylight	39.500	70	Zet Pup	2.2460	39000.	79	25663	No
343	GOM_NL__2PRFIN20070126_215452_000000412055_00058_25663_4772.N1	26-JAN-2007 21:54:52	Straylight	41.000	117	Pi Pup	2.7060	3800.0	82	25663	No
344	GOM_NL__2PRFIN20070126_215720_000000402055_00058_25663_4773.N1	26-JAN-2007 21:57:20	Straylight	40.000	23	21Eps CMa	1.5020	26000.	80	25663	No
345	GOM_NL__2PRFIN20070126_215843_000000382055_00058_25663_4774.N1	26-JAN-2007 21:58:43	Straylight	38.000	179	24Omi2CMa	3.0320	24000.	76	25663	No
346	GOM_NL__2PRFIN20070126_220052_000000412055_00058_25663_4775.N1	26-JAN-2007 22:00:52	Straylight	41.000	1	9Alp CMa	-1.4400	11000.	82	25663	No
347	GOM_NL__2PRFIN20070126_220653_000000552055_00058_25663_4776.N1	26-JAN-2007 22:06:53	Tw_i_and_stray	55.000	8	10Alp CMi	0.40000	6500.0	110	25663	No
348	GOM_NL__2PRFIN20070126_221009_000000382055_00058_25663_4777.N1	26-JAN-2007 22:10:09	Bright	38.000	44	24Gam Gem	1.9280	11000.	76	25663	No
349	GOM_NL__2PRFIN20070126_221157_000000382055_00058_25663_4778.N1	26-JAN-2007 22:11:57	Bright	38.000	151	13Mu Gem	2.8900	3000.0	76	25663	No
350	GOM_NL__2PRFIN20070126_221612_000000342055_00058_25663_4779.N1	26-JAN-2007 22:16:12	Bright	33.500	107	37The Aur	2.6490	11000.	67	25663	No
351	GOM_NL__2PRFIN20070126_221819_000000352055_00058_25663_4780.N1	26-JAN-2007 22:18:19	Bright	35.000	42	34Bet Aur	1.9000	10200.	70	25663	No
352	GOM_NL__2PRFIN20070126_223046_000000332055_00058_25663_4781.N1	26-JAN-2007 22:30:46	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	25663	No
353	GOM_NL__2PRFIN20070126_224145_000000352055_00058_25663_4782.N1	26-JAN-2007 22:41:45	Bright	34.500	130	23Bet Dra	2.7990	5800.0	69	25663	No
354	GOM_NL__2PRFIN20070126_224512_000000342055_00058_25663_4783.N1	26-JAN-2007 22:45:12	Bright	33.500	5	3Alp Lyr	0.033000	11000.	67	25663	No
355	GOM_NL__2PRFIN20070126_225316_000000352055_00058_25663_4784.N1	26-JAN-2007 22:53:16	Bright	35.000	59	55Alp Oph	2.0800	8900.0	70	25663	No
356	GOM_NL__2PRFIN20070126_225523_000000342055_00058_25663_4785.N1	26-JAN-2007 22:55:23	Bright	34.000	126	60Bet Oph	2.7700	4250.0	68	25663	No
357	GOM_NL__2PRFIN20070126_230139_000000412055_00058_25663_4786.N1	26-JAN-2007 23:01:39	Tw_i_and_stray	41.000	86	35Eta Oph	2.4300	10200.	82	25663	No
358	GOM_NL__2PRFIN20070126_230543_000000492055_00058_25663_4787.N1	26-JAN-2007 23:05:43	Dark	48.500	16	21Alp Sco	1.0200	3000.0	97	25663	No
359	GOM_NL__2PRFIN20070126_230705_000000392055_00058_25663_4788.N1	26-JAN-2007 23:07:05	Dark	38.500	75	26Eps Sco	2.2910	4250.0	77	25663	No
360	GOM_NL__2PRFIN20070126_231121_000000422055_00058_25663_4789.N1	26-JAN-2007 23:11:21	Dark	42.000	131	Gam Lup	2.8000	26000.	84	25663	No
361	GOM_NL__2PRFIN20070126_231520_000000382055_00059_25664_4778.N1	26-JAN-2007 23:15:20	Dark	37.500	134	Bet TrA	2.8100	6600.0	75	25664	No
362	GOM_NL__2PRFIN20070126_231650_000000512055_00059_25664_4779.N1	26-JAN-2007 23:16:50	Dark	51.000	4	Alp1Cen	-0.010000	5800.0	102	25664	No
363	GOM_NL__2PRFIN20070126_232124_000000462055_00059_25664_4780.N1	26-JAN-2007 23:21:24	Dark	46.000	12	Alp1Cru	0.77500	30000.	92	25664	No
364	GOM_NL__2PRFIN20070126_232518_000000392055_00059_25664_4781.N1	26-JAN-2007 23:25:18	Dark	39.000	29	Bet Car	1.6720	10200.	78	25664	No
365	GOM_NL__2PRFIN20070126_232733_000000402055_00059_25664_4782.N1	26-JAN-2007 23:27:33	Dark	39.500	71	lot Car	2.2460	7700.0	79	25664	No
366	GOM_NL__2PRFIN20070126_232920_000000382055_00059_25664_4783.N1	26-JAN-2007 23:29:20	Dark	38.000	46	Del Vel	1.9540	10600.	76	25664	No
367	GOM_NL__2PRFIN20070126_233155_000000412055_00059_25664_4784.N1	26-JAN-2007 23:31:55	Dark	40.500	34	Gam2Vel	1.7930	23000.	81	25664	No
368	GOM_NL__2PRFIN20070126_233401_000000392055_00059_25664_4785.N1	26-JAN-2007 23:34:01	Straylight	39.000	70	Zet Pup	2.2460	39000.	78	25664	No
369	GOM_NL__2PRFIN20070126_233528_000000432055_00059_25664_4786.N1	26-JAN-2007 23:35:28	Straylight	42.500	117	Pi Pup	2.7060	3800.0	85	25664	No
370	GOM_NL__2PRFIN20070126_233756_000000412055_00059_25664_4787.N1	26-JAN-2007 23:37:56	Straylight	40.500	23	21Eps CMa	1.5020	26000.	81	25664	No
371	GOM_NL__2PRFIN20070126_233919_000000382055_00059_25664_4788.N1	26-JAN-2007 23:39:19	Straylight	37.500	179	24Omi2CMa	3.0320	24000.	75	25664	No
372	GOM_NL__2PRFIN20070126_234128_000000432055_00059_25664_4789.N1	26-JAN-2007 23:41:28	Straylight	43.000	1	9Alp CMa	-1.4400	11000.	86	25664	No
373	GOM_NL__2PRFIN20070126_234729_000000502055_00059_25664_4790.N1	26-JAN-2007 23:47:29	Tw_i_and_stray	49.500	8	10Alp CMi	0.40000	6500.0	99	25664	No
374	GOM_NL__2PRFIN20070126_235045_000000372055_00059_25664_4791.N1	26-JAN-2007 23:50:45	Bright	37.000	44	24Gam Gem	1.9280	11000.	74	25664	No
375	GOM_NL__2PRFIN20070126_235233_000000382055_00059_25664_4792.N1	26-JAN-2007 23:52:33	Bright	37.500	151	13Mu Gem	2.8900	3000.0	75	25664	No
376	GOM_NL__2PRFIN20070126_235648_000000352055_00059_25664_4793.N1	26-JAN-2007 23:56:48	Bright	35.000	107	37The Aur	2.6490	11000.	70	25664	No
377	GOM_NL__2PRFIN20070126_235855_000000362055_00059_25664_4794.N1	26-JAN-2007 23:58:55	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	25664	No

### 3. Quality information per product

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

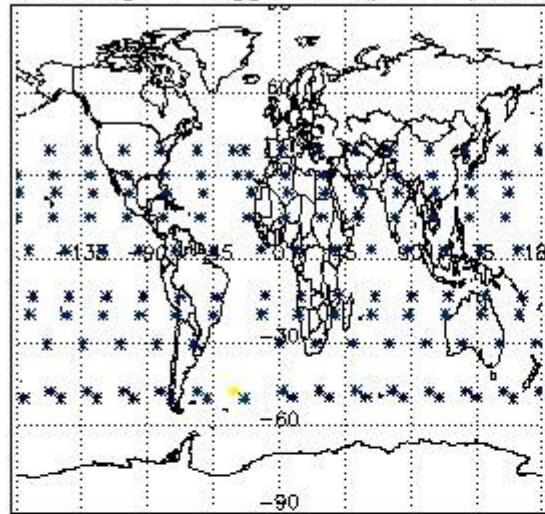
#### 3.1 Plot quality information per product (time dependant)



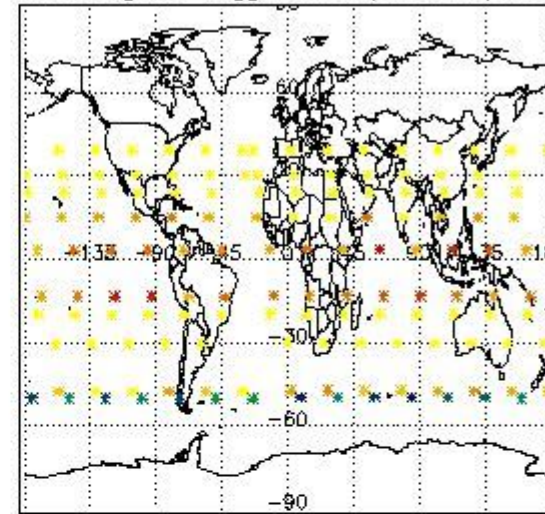


*3.2 Plot quality information per product (world map)*

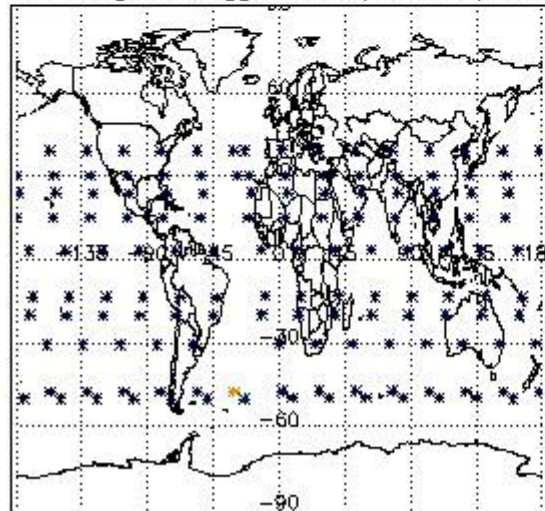
Percentage of flagged data per O3 profile



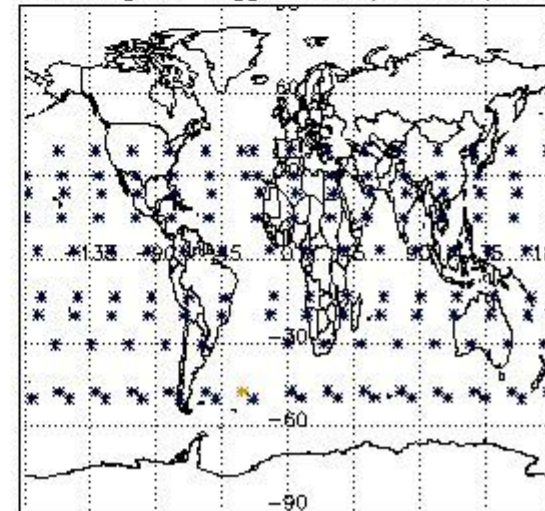
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

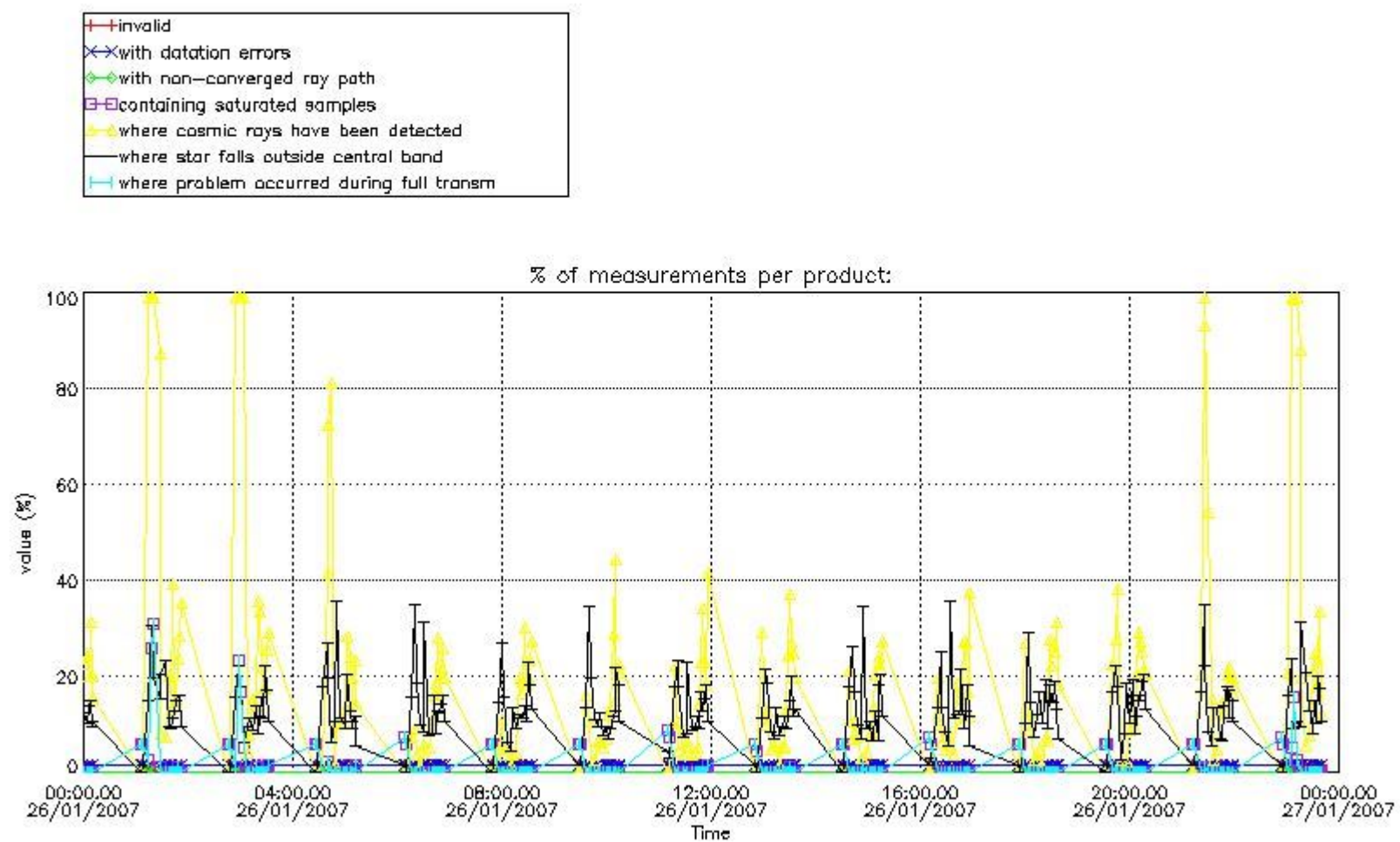


#### 4. Level 1 quality information per product

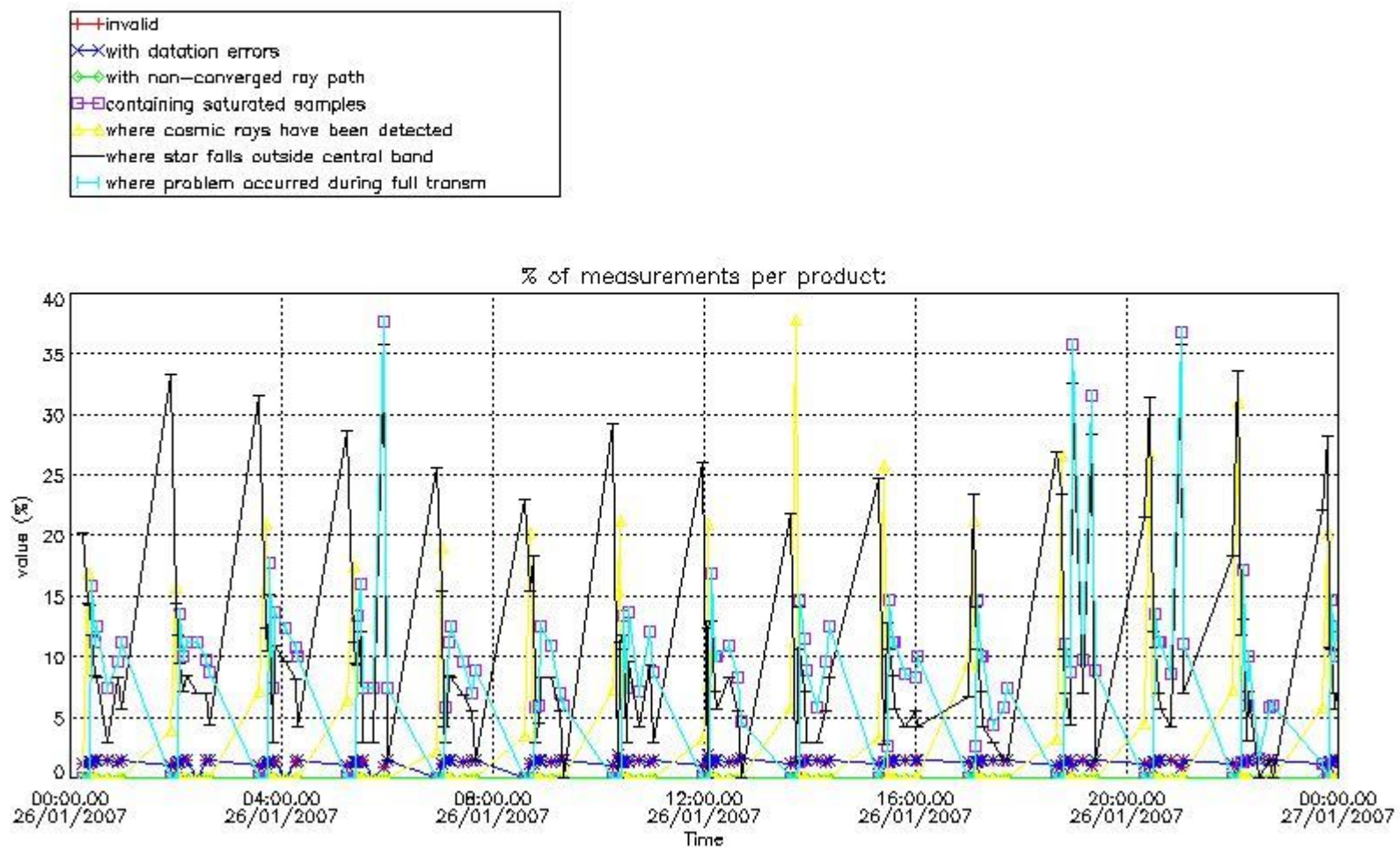
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



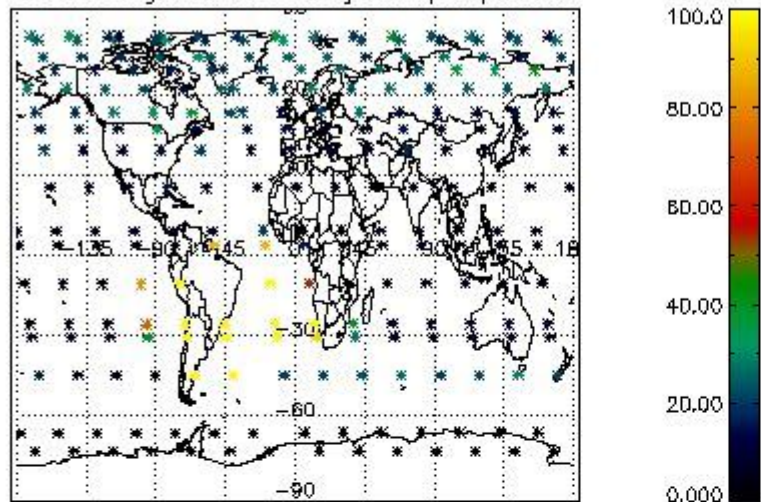
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



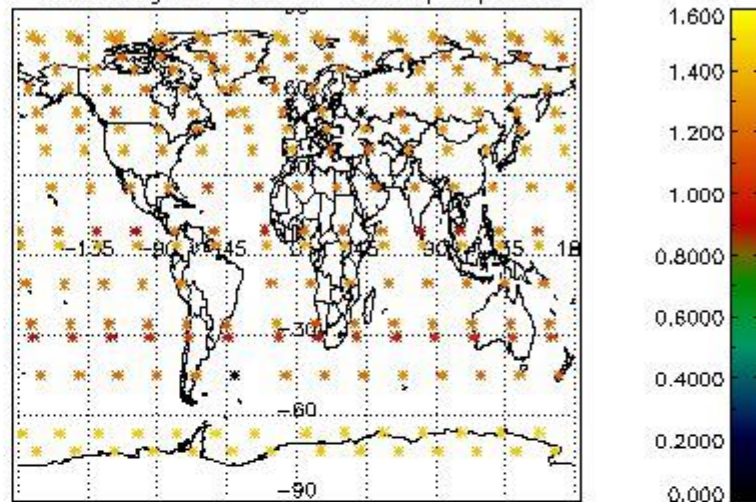
4.2 Plot quality information per product coming from level 1b processing (world map)

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

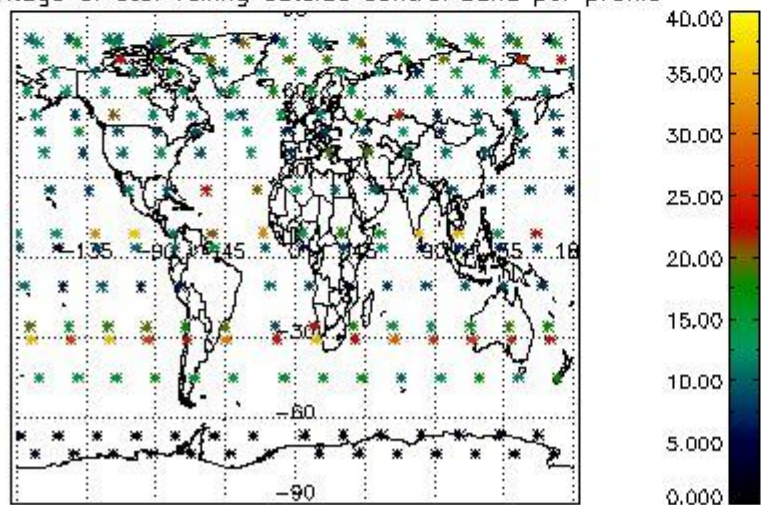
Percentage of cosmic ray hits per profile



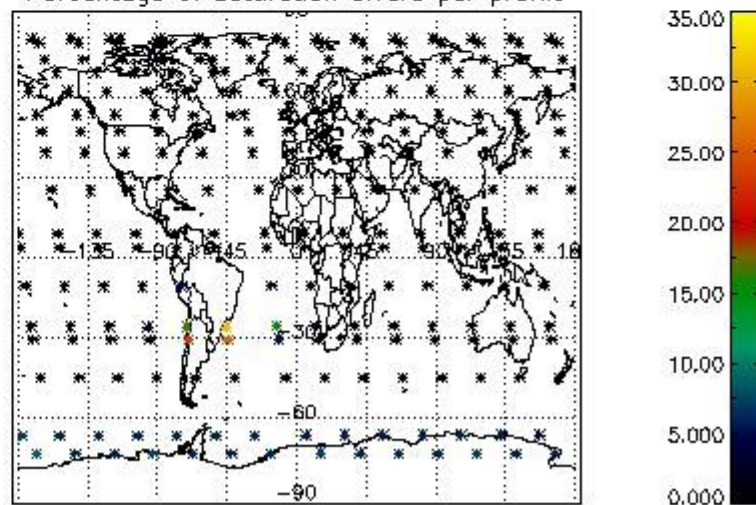
Percentage of datation errors per profile



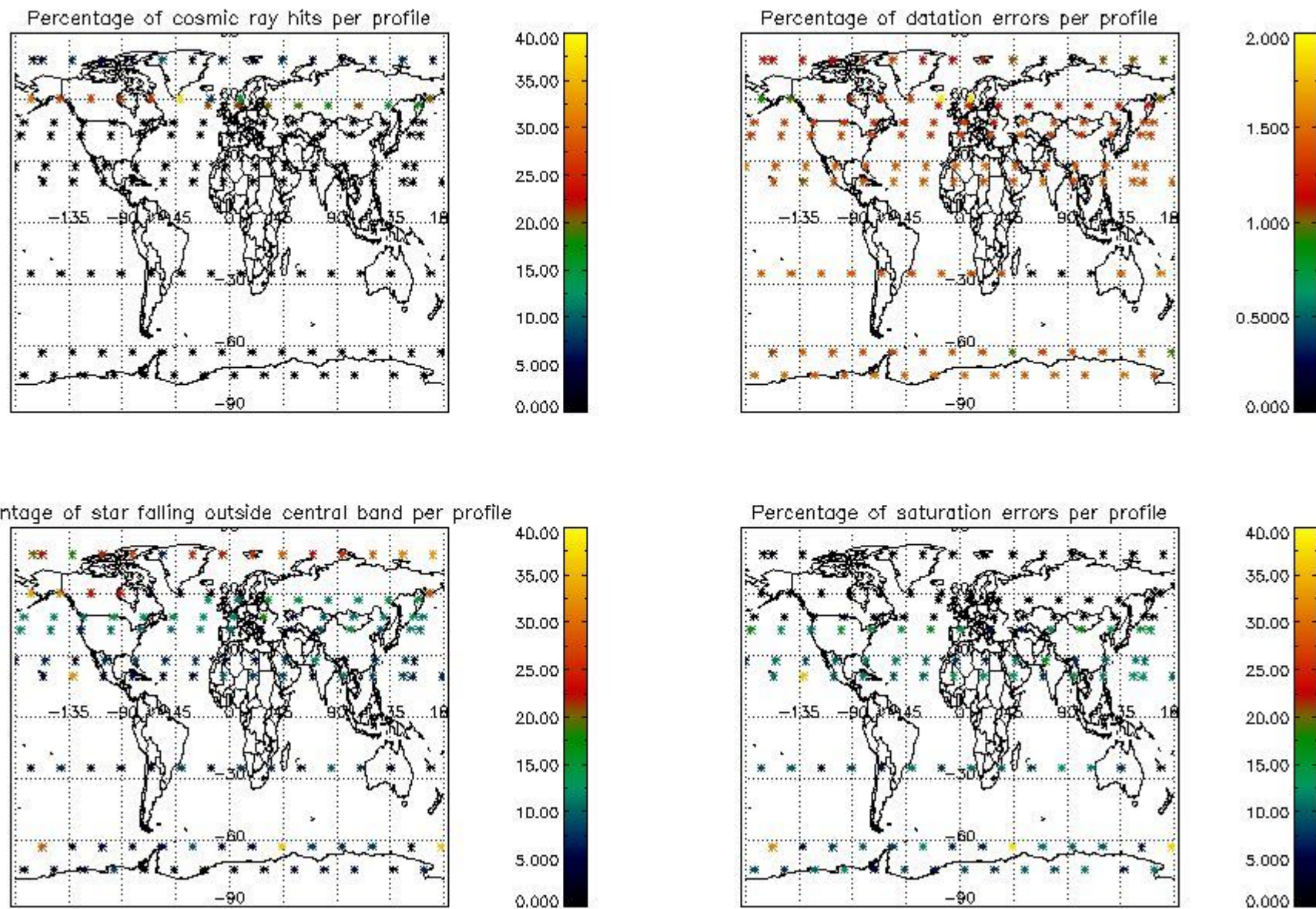
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/o3\_std of the level 2 products. The table below shows the statistics for given STD ranges.

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

- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

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

- Products in dark limb illumination condition: GOM\_NL\_\_2P/NL\_SUMMARY\_QUALITY/obs\_ill\_cond=0
- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

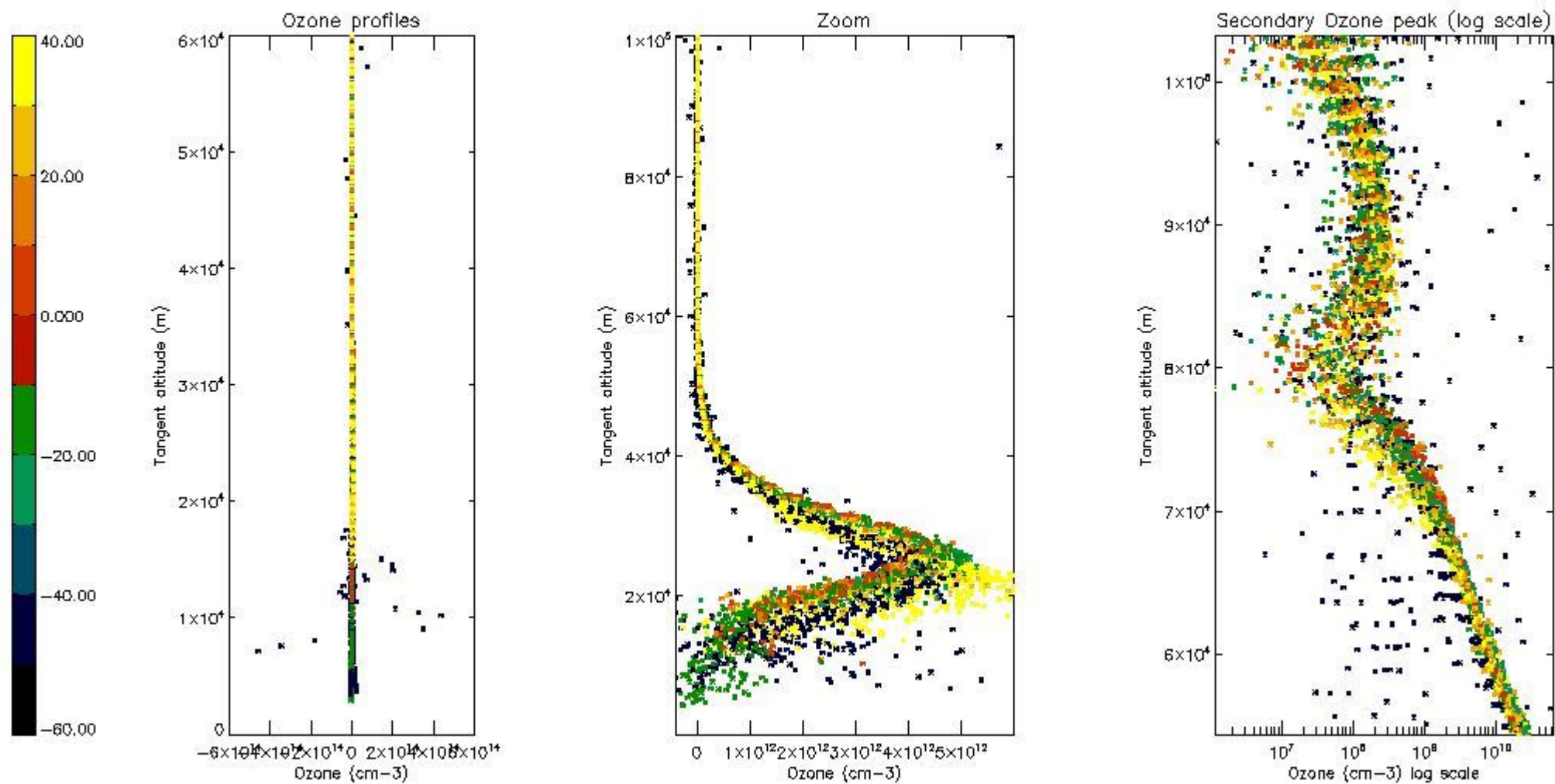
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	40
STD < 20	22

STD < 10	17
STD < 5	11

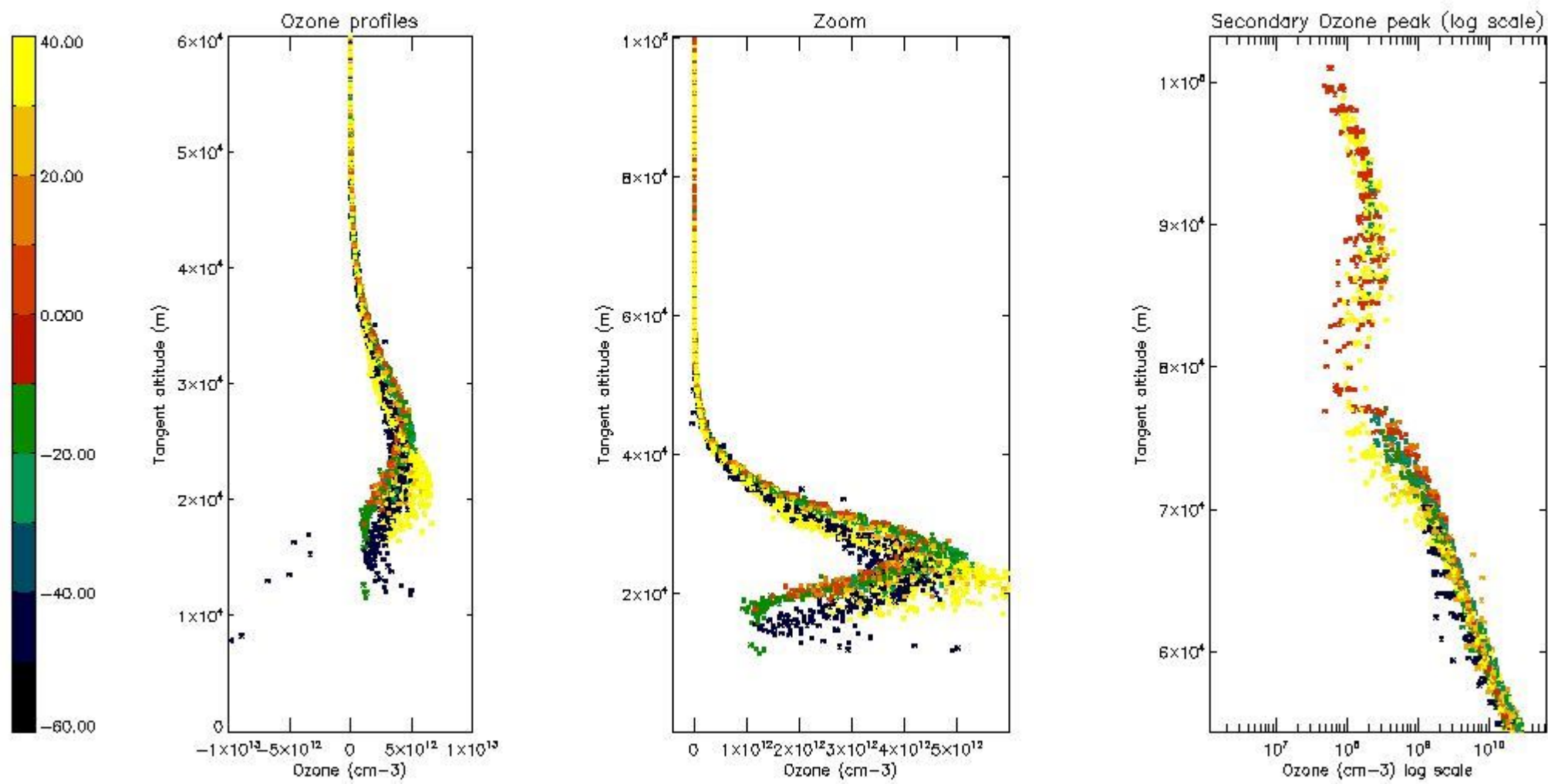
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

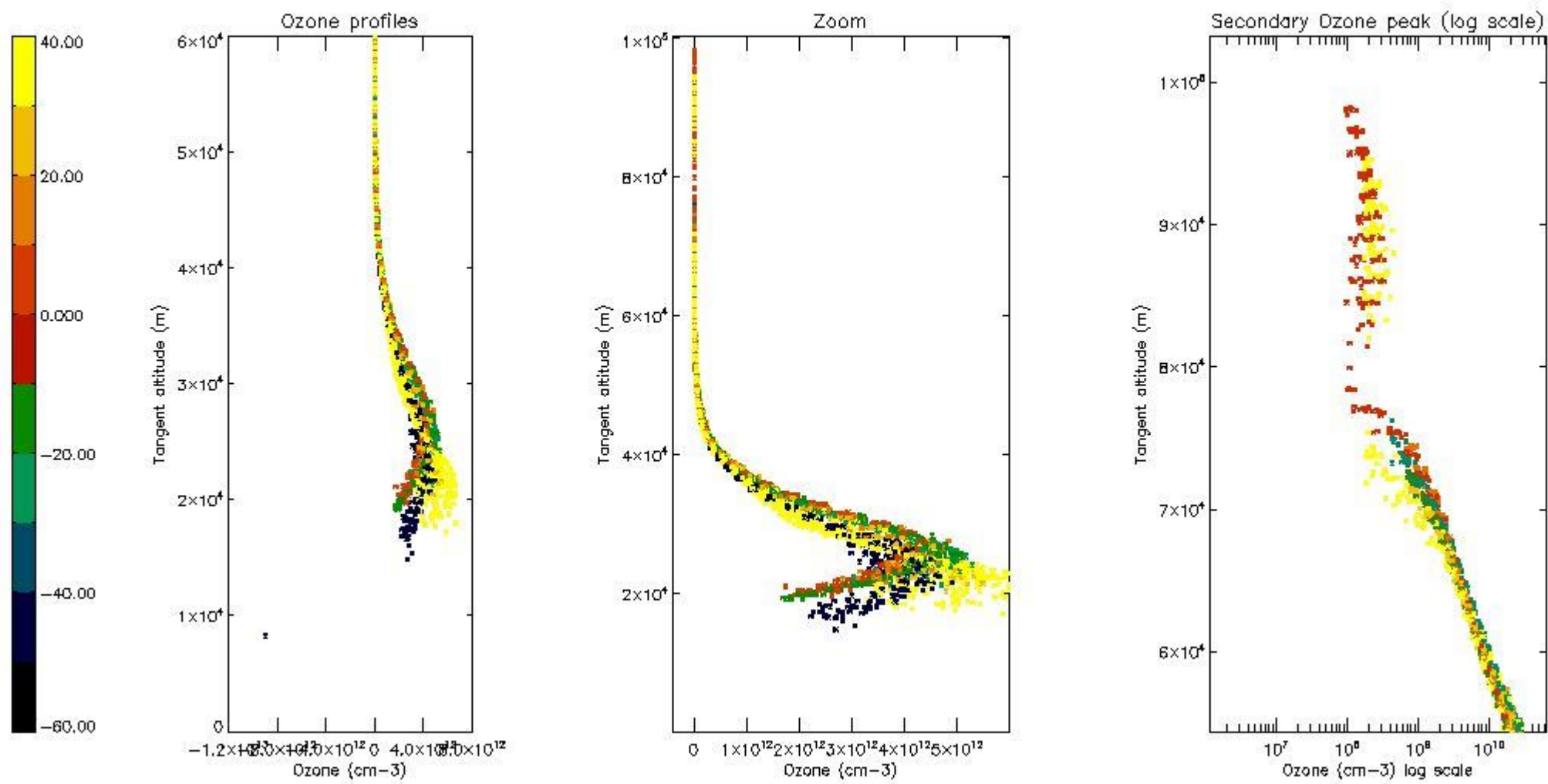
The colorbar represents the latitude.



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

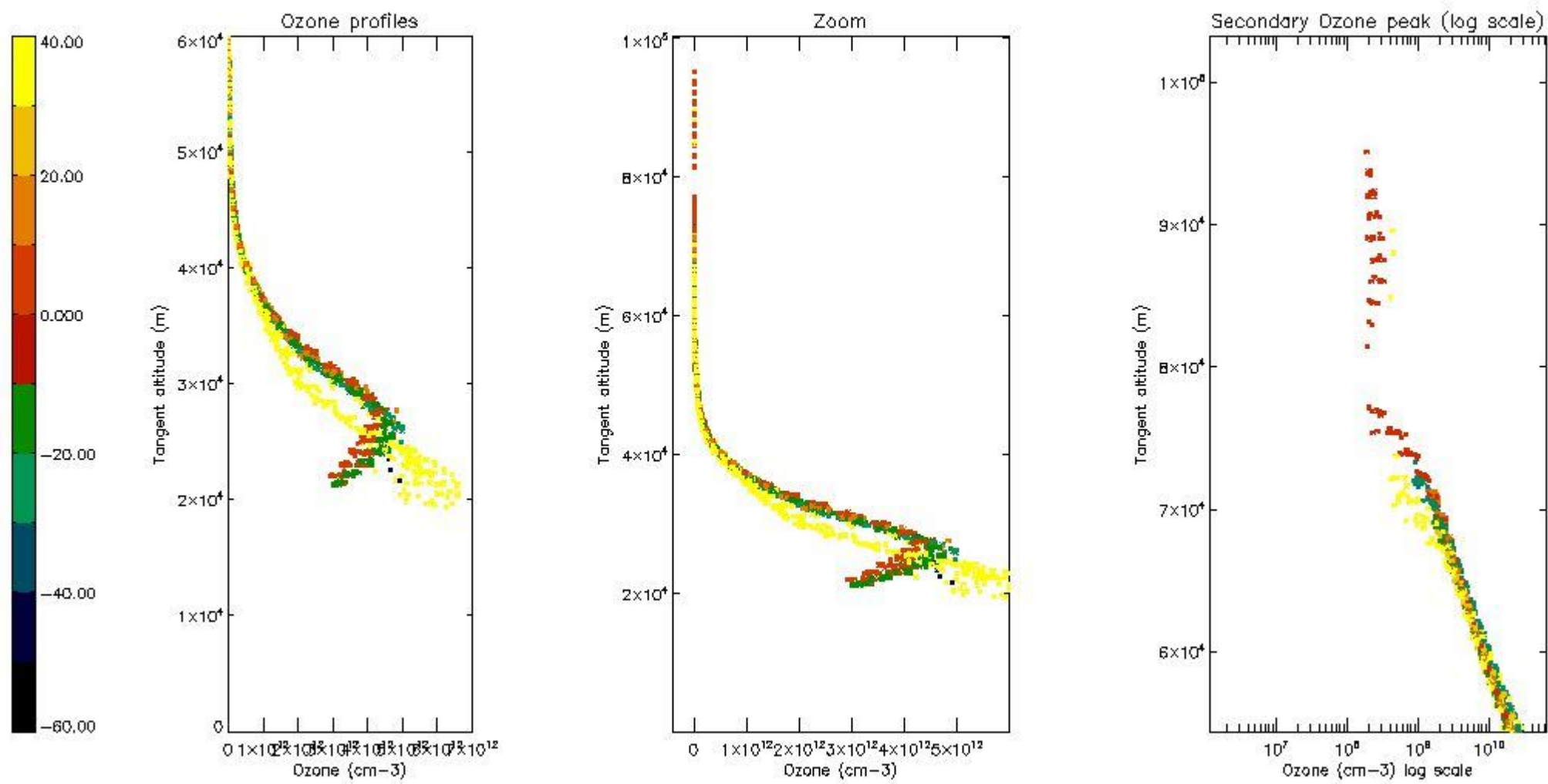
The colorbar represents the latitude.





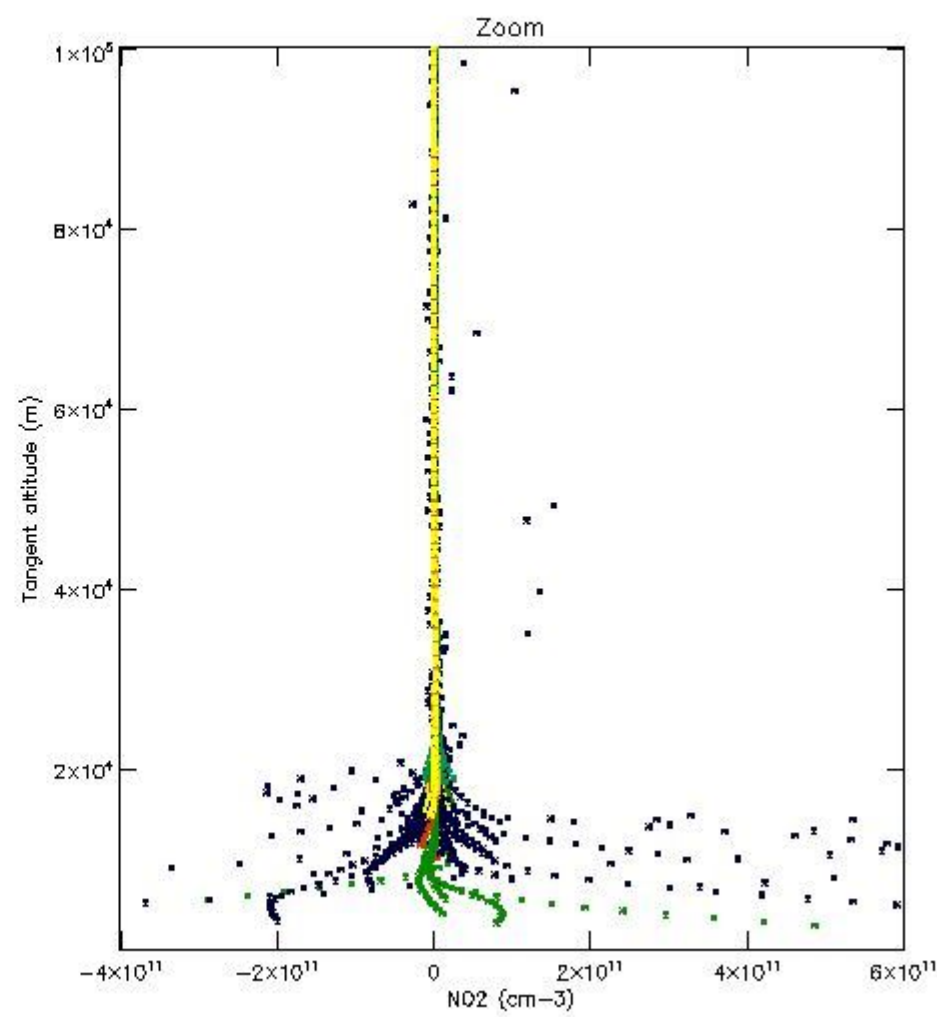
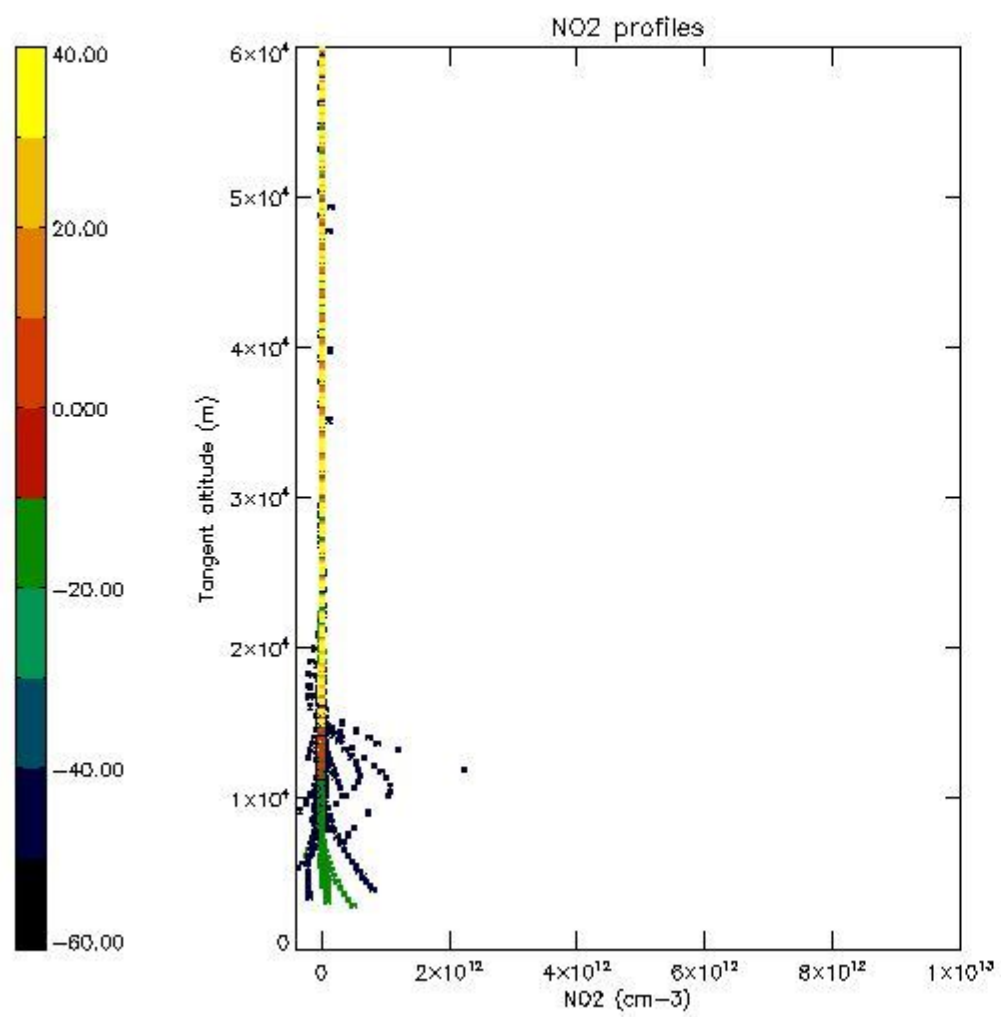
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



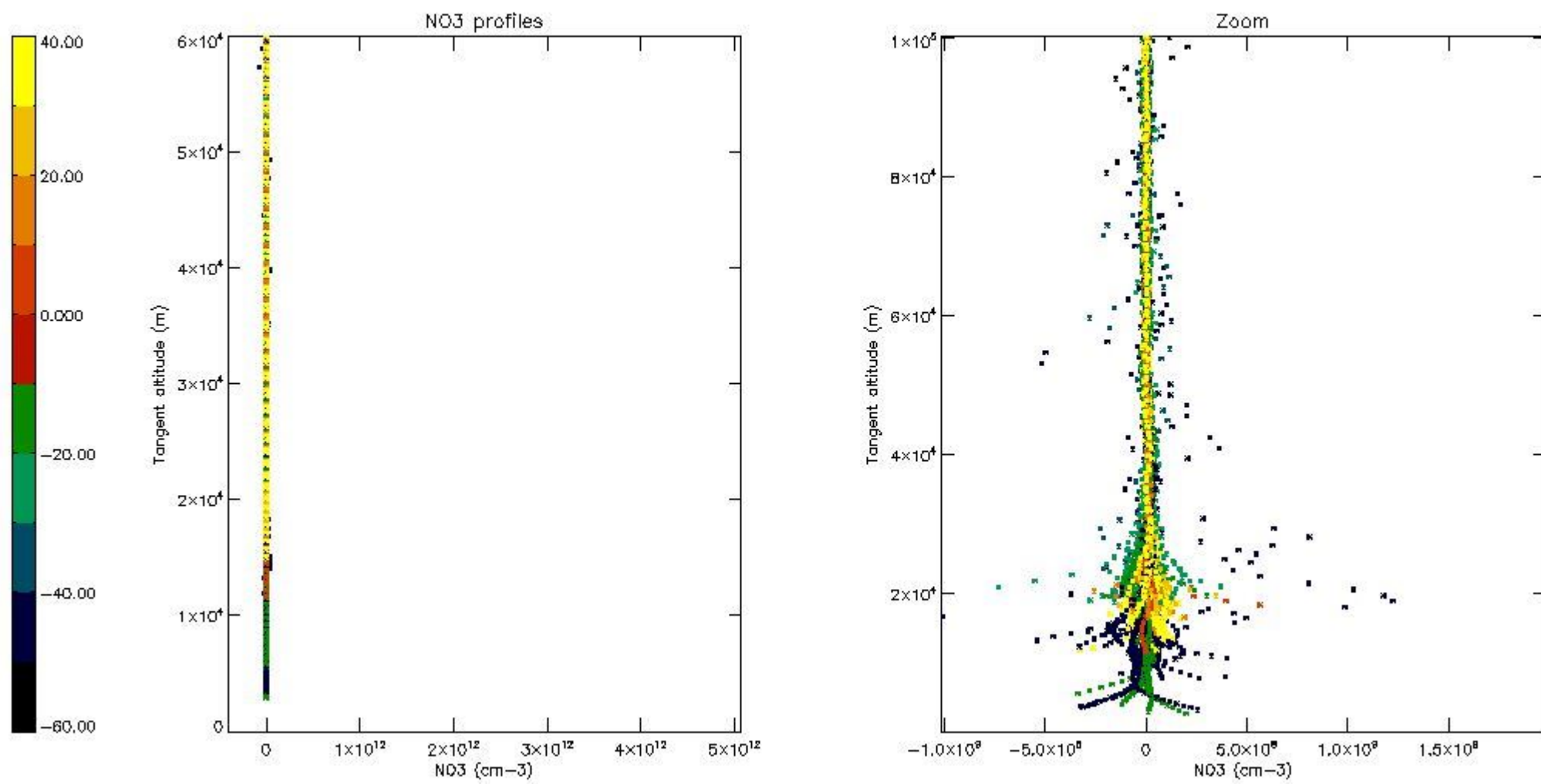
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



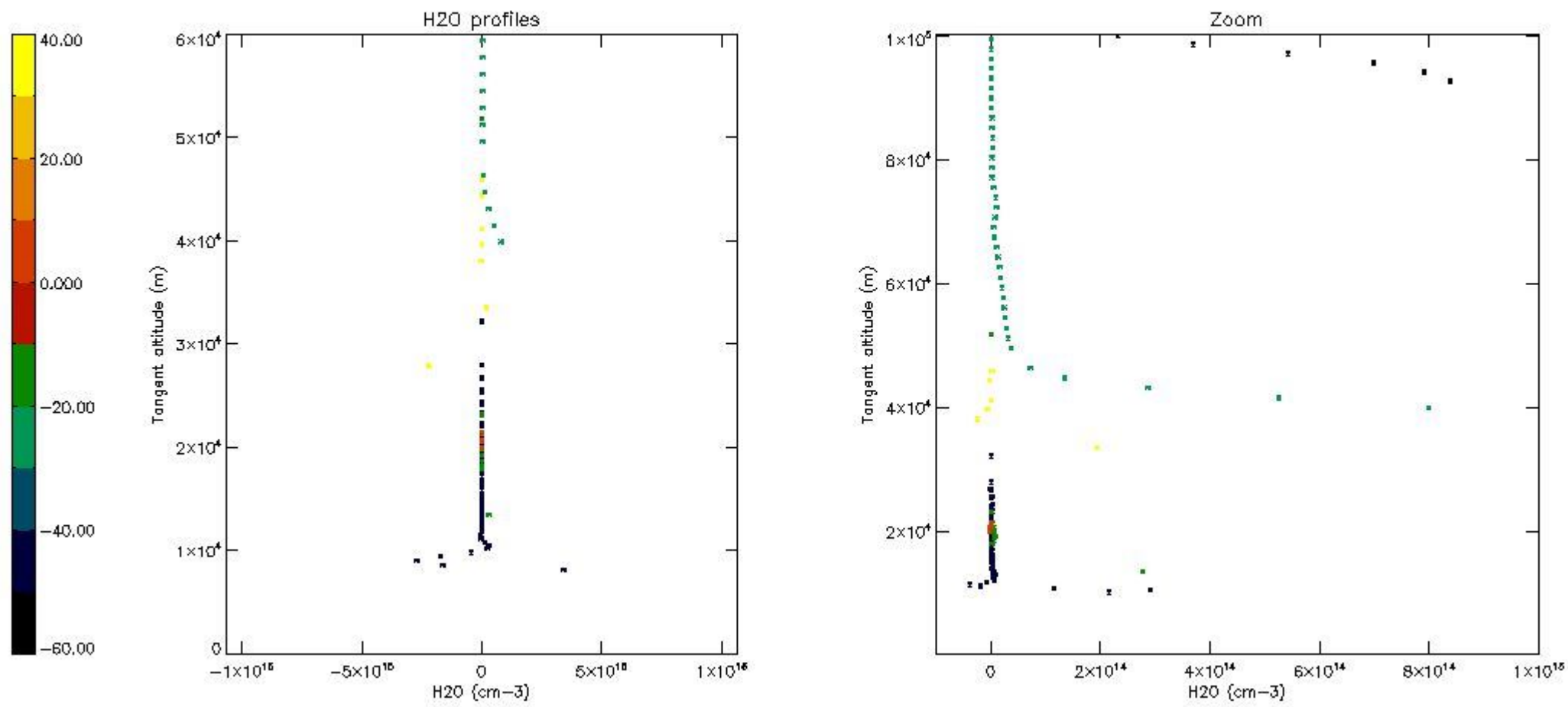
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



5.8 Plot H<sub>2</sub>O 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	26-JAN-2007 00:00:52
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	26-JAN-2007 00:00:52
CROSS_SECTIONS_FILE	GOM_CR2_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	26-JAN-2007 00:00:52

# GOMOS Level 2 Daily Report

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#### [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	22APR2013 12:59:50
Data source version	GOMOS/6.01
Start time of products	26-01-2007 (26JAN2007 00:00:00)
Stop time of products	27-01-2007 (27JAN2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	377
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__2PRFIN20070126_000052_000000402055_00045_25650_4573.N1	26-JAN-2007 00:00:52	Dark	40.000	46	Del Vel	1.9540	10600.	80	25650	No
2	GOM_NL__2PRFIN20070126_000328_000000392055_00045_25650_4574.N1	26-JAN-2007 00:03:28	Dark	39.000	34	Gam2Vel	1.7930	23000.	78	25650	No
3	GOM_NL__2PRFIN20070126_000534_000000402055_00045_25650_4575.N1	26-JAN-2007 00:05:34	Straylight	40.000	70	Zet Pup	2.2460	39000.	80	25650	No
4	GOM_NL__2PRFIN20070126_000702_000000402055_00045_25650_4576.N1	26-JAN-2007 00:07:02	Straylight	40.000	117	Pi Pup	2.7060	3800.0	80	25650	No
5	GOM_NL__2PRFIN20070126_000930_000000382055_00045_25650_4577.N1	26-JAN-2007 00:09:30	Straylight	37.500	23	21Eps CMa	1.5020	26000.	75	25650	No
6	GOM_NL__2PRFIN20070126_001053_000000382055_00045_25650_4578.N1	26-JAN-2007 00:10:53	Straylight	38.000	179	24Omi2CMa	3.0320	24000.	76	25650	No
7	GOM_NL__2PRFIN20070126_001302_000000422055_00045_25650_4579.N1	26-JAN-2007 00:13:02	Straylight	42.000	1	9Alp CMa	-1.4400	11000.	84	25650	No
8	GOM_NL__2PRFIN20070126_001959_000000422055_00045_25650_4580.N1	26-JAN-2007 00:19:59	Twilight_stray	41.500	153	3Bet CMi	2.8940	13100.	83	25650	No
9	GOM_NL__2PRFIN20070126_002221_000000392055_00045_25650_4581.N1	26-JAN-2007 00:22:21	Bright	38.500	44	24Gam Gem	1.9280	11000.	77	25650	No
10	GOM_NL__2PRFIN20070126_002408_000000382055_00045_25650_4582.N1	26-JAN-2007 00:24:08	Bright	38.000	151	13Mu Gem	2.8900	3000.0	76	25650	No
11	GOM_NL__2PRFIN20070126_002822_000000362055_00045_25650_4583.N1	26-JAN-2007 00:28:22	Bright	35.500	107	37The Aur	2.6490	11000.	71	25650	No
12	GOM_NL__2PRFIN20070126_003030_000000362055_00045_25650_4584.N1	26-JAN-2007 00:30:30	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	25650	No
13	GOM_NL__2PRFIN20070126_004258_000000342055_00045_25650_4585.N1	26-JAN-2007 00:42:58	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	25650	No
14	GOM_NL__2PRFIN20070126_005358_000000372055_00045_25650_4586.N1	26-JAN-2007 00:53:58	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	25650	No
15	GOM_NL__2PRFIN20070126_005723_000000362055_00045_25650_4587.N1	26-JAN-2007 00:57:23	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	25650	No
16	GOM_NL__2PRFIN20070126_010525_000000342055_00045_25650_4588.N1	26-JAN-2007 01:05:25	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	25650	No
17	GOM_NL__2PRFIN20070126_010732_000000342055_00045_25650_4589.N1	26-JAN-2007 01:07:32	Bright	34.000	126	60Bet Oph	2.7700	4250.0	68	25650	No
18	GOM_NL__2PRFIN20070126_011346_000000412055_00045_25650_4590.N1	26-JAN-2007 01:13:46	Bright	40.500	86	35Eta Oph	2.4300	10200.	81	25650	No
19	GOM_NL__2PRFIN20070126_011748_000000532055_00045_25650_4591.N1	26-JAN-2007 01:17:48	Dark	52.500	16	21Alp Sco	1.0200	3000.0	105	25650	No
20	GOM_NL__2PRFIN20070126_011912_000000442055_00045_25650_4592.N1	26-JAN-2007 01:19:12	Dark	43.500	75	26Eps Sco	2.2910	4250.0	87	25650	No
21	GOM_NL__2PRFIN20070126_012728_000000402055_00046_25651_4583.N1	26-JAN-2007 01:27:28	Dark	39.500	134	Bet TrA	2.8100	6600.0	79	25651	No
22	GOM_NL__2PRFIN20070126_012856_000000442055_00046_25651_4584.N1	26-JAN-2007 01:28:56	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	25651	No
23	GOM_NL__2PRFIN20070126_013330_000000472055_00046_25651_4585.N1	26-JAN-2007 01:33:30	Dark	47.000	12	Alp1Cru	0.77500	30000.	94	25651	No
24	GOM_NL__2PRFIN20070126_013728_000000382055_00046_25651_4586.N1	26-JAN-2007 01:37:28	Dark	37.500	29	Bet Car	1.6720	10200.	75	25651	No
25	GOM_NL__2PRFIN20070126_013941_000000392055_00046_25651_4587.N1	26-JAN-2007 01:39:41	Dark	38.500	71	lot Car	2.2460	7700.0	77	25651	No
26	GOM_NL__2PRFIN20070126_014128_000000402055_00046_25651_4588.N1	26-JAN-2007 01:41:28	Dark	39.500	46	Del Vel	1.9540	10600.	79	25651	No
27	GOM_NL__2PRFIN20070126_014404_000000402055_00046_25651_4589.N1	26-JAN-2007 01:44:04	Dark	39.500	34	Gam2Vel	1.7930	23000.	79	25651	No
28	GOM_NL__2PRFIN20070126_014610_000000412055_00046_25651_4590.N1	26-JAN-2007 01:46:10	Straylight	40.500	70	Zet Pup	2.2460	39000.	81	25651	No
29	GOM_NL__2PRFIN20070126_014738_000000412055_00046_25651_4591.N1	26-JAN-2007 01:47:38	Straylight	40.500	117	Pi Pup	2.7060	3800.0	81	25651	No
30	GOM_NL__2PRFIN20070126_015006_000000412055_00046_25651_4592.N1	26-JAN-2007 01:50:06	Straylight	40.500	23	21Eps CMa	1.5020	26000.	81	25651	No
31	GOM_NL__2PRFIN20070126_015129_000000372055_00046_25651_4593.N1	26-JAN-2007 01:51:29	Straylight	37.000	179	24Omi2CMa	3.0320	24000.	74	25651	No
32	GOM_NL__2PRFIN20070126_015339_000000512055_00046_25651_4594.N1	26-JAN-2007 01:53:39	Straylight	51.000	1	9Alp CMa	-1.4400	11000.	102	25651	No
33	GOM_NL__2PRFIN20070126_020035_000000422055_00046_25651_4595.N1	26-JAN-2007 02:00:35	Twilight_stray	41.500	153	3Bet CMi	2.8940	13100.	83	25651	No
34	GOM_NL__2PRFIN20070126_020257_000000382055_00046_25651_4596.N1	26-JAN-2007 02:02:57	Bright	38.000	44	24Gam Gem	1.9280	11000.	76	25651	No
35	GOM_NL__2PRFIN20070126_020444_000000372055_00046_25651_4597.N1	26-JAN-2007 02:04:44	Bright	37.000	151	13Mu Gem	2.8900	3000.0	74	25651	No
36	GOM_NL__2PRFIN20070126_020859_000000352055_00046_25651_4598.N1	26-JAN-2007 02:08:59	Bright	35.000	107	37The Aur	2.6490	11000.	70	25651	No
37	GOM_NL__2PRFIN20070126_021106_000000362055_00046_25651_4599.N1	26-JAN-2007 02:11:06	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	25651	No
38	GOM_NL__2PRFIN20070126_022334_000000362055_00046_25651_4600.N1	26-JAN-2007 02:23:34	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	25651	No
39	GOM_NL__2PRFIN20070126_023434_000000362055_00046_25651_4601.N1	26-JAN-2007 02:34:34	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	25651	No
40	GOM_NL__2PRFIN20070126_023759_000000352055_00046_25651_4602.N1	26-JAN-2007 02:37:59	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	25651	No
41	GOM_NL__2PRFIN20070126_024602_000000342055_00046_25651_4603.N1	26-JAN-2007 02:46:02	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	25651	No
42	GOM_NL__2PRFIN20070126_024808_000000342055_00046_25651_4604.N1	26-JAN-2007 02:48:08	Bright	33.500	126	60Bet Oph	2.7700	4250.0	67	25651	No











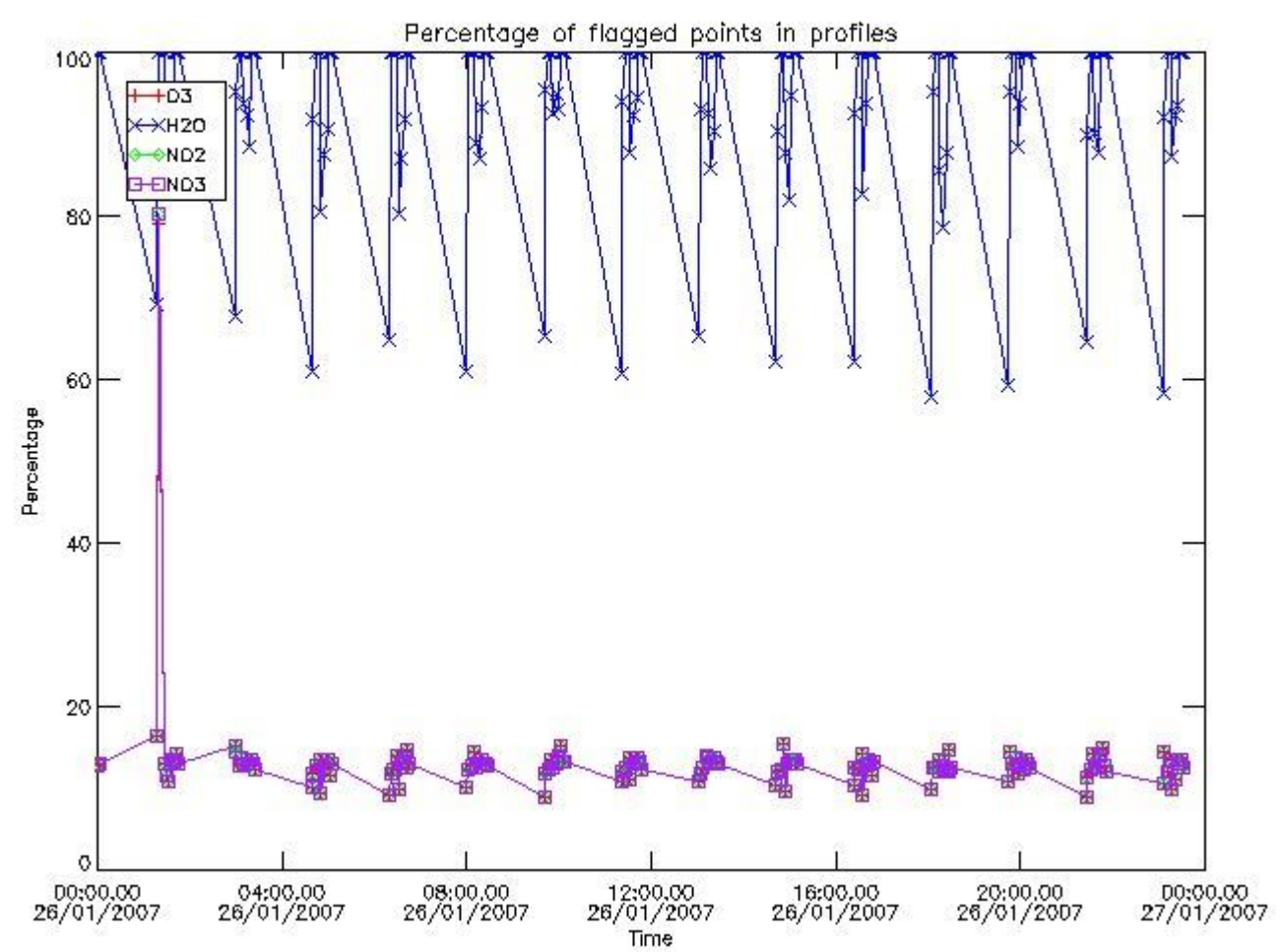


338	GOM_NL__2PRFIN20070126_214442_000000372055_00058_25663_4767.N1	26-JAN-2007 21:44:42	Dark	36.500	29	Bet Car	1.6720	10200.	73	25663	No
339	GOM_NL__2PRFIN20070126_214656_000000382055_00058_25663_4768.N1	26-JAN-2007 21:46:56	Dark	37.500	71	lot Car	2.2460	7700.0	75	25663	No
340	GOM_NL__2PRFIN20070126_214844_000000402055_00058_25663_4769.N1	26-JAN-2007 21:48:44	Dark	40.000	46	Del Vel	1.9540	10600.	80	25663	No
341	GOM_NL__2PRFIN20070126_215119_000000422055_00058_25663_4770.N1	26-JAN-2007 21:51:19	Dark	42.000	34	Gam2Vel	1.7930	23000.	84	25663	No
342	GOM_NL__2PRFIN20070126_215325_000000402055_00058_25663_4771.N1	26-JAN-2007 21:53:25	Straylight	39.500	70	Zet Pup	2.2460	39000.	79	25663	No
343	GOM_NL__2PRFIN20070126_215452_000000412055_00058_25663_4772.N1	26-JAN-2007 21:54:52	Straylight	41.000	117	Pi Pup	2.7060	3800.0	82	25663	No
344	GOM_NL__2PRFIN20070126_215720_000000402055_00058_25663_4773.N1	26-JAN-2007 21:57:20	Straylight	40.000	23	21Eps CMa	1.5020	26000.	80	25663	No
345	GOM_NL__2PRFIN20070126_215843_000000382055_00058_25663_4774.N1	26-JAN-2007 21:58:43	Straylight	38.000	179	24Omi2CMa	3.0320	24000.	76	25663	No
346	GOM_NL__2PRFIN20070126_220052_000000412055_00058_25663_4775.N1	26-JAN-2007 22:00:52	Straylight	41.000	1	9Alp CMa	-1.4400	11000.	82	25663	No
347	GOM_NL__2PRFIN20070126_220653_000000552055_00058_25663_4776.N1	26-JAN-2007 22:06:53	Tw_i_and_stray	55.000	8	10Alp CMi	0.40000	6500.0	110	25663	No
348	GOM_NL__2PRFIN20070126_221009_000000382055_00058_25663_4777.N1	26-JAN-2007 22:10:09	Bright	38.000	44	24Gam Gem	1.9280	11000.	76	25663	No
349	GOM_NL__2PRFIN20070126_221157_000000382055_00058_25663_4778.N1	26-JAN-2007 22:11:57	Bright	38.000	151	13Mu Gem	2.8900	3000.0	76	25663	No
350	GOM_NL__2PRFIN20070126_221612_000000342055_00058_25663_4779.N1	26-JAN-2007 22:16:12	Bright	33.500	107	37The Aur	2.6490	11000.	67	25663	No
351	GOM_NL__2PRFIN20070126_221819_000000352055_00058_25663_4780.N1	26-JAN-2007 22:18:19	Bright	35.000	42	34Bet Aur	1.9000	10200.	70	25663	No
352	GOM_NL__2PRFIN20070126_223046_000000332055_00058_25663_4781.N1	26-JAN-2007 22:30:46	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	25663	No
353	GOM_NL__2PRFIN20070126_224145_000000352055_00058_25663_4782.N1	26-JAN-2007 22:41:45	Bright	34.500	130	23Bet Dra	2.7990	5800.0	69	25663	No
354	GOM_NL__2PRFIN20070126_224512_000000342055_00058_25663_4783.N1	26-JAN-2007 22:45:12	Bright	33.500	5	3Alp Lyr	0.033000	11000.	67	25663	No
355	GOM_NL__2PRFIN20070126_225316_000000352055_00058_25663_4784.N1	26-JAN-2007 22:53:16	Bright	35.000	59	55Alp Oph	2.0800	8900.0	70	25663	No
356	GOM_NL__2PRFIN20070126_225523_000000342055_00058_25663_4785.N1	26-JAN-2007 22:55:23	Bright	34.000	126	60Bet Oph	2.7700	4250.0	68	25663	No
357	GOM_NL__2PRFIN20070126_230139_000000412055_00058_25663_4786.N1	26-JAN-2007 23:01:39	Tw_i_and_stray	41.000	86	35Eta Oph	2.4300	10200.	82	25663	No
358	GOM_NL__2PRFIN20070126_230543_000000492055_00058_25663_4787.N1	26-JAN-2007 23:05:43	Dark	48.500	16	21Alp Sco	1.0200	3000.0	97	25663	No
359	GOM_NL__2PRFIN20070126_230705_000000392055_00058_25663_4788.N1	26-JAN-2007 23:07:05	Dark	38.500	75	26Eps Sco	2.2910	4250.0	77	25663	No
360	GOM_NL__2PRFIN20070126_231121_000000422055_00058_25663_4789.N1	26-JAN-2007 23:11:21	Dark	42.000	131	Gam Lup	2.8000	26000.	84	25663	No
361	GOM_NL__2PRFIN20070126_231520_000000382055_00059_25664_4778.N1	26-JAN-2007 23:15:20	Dark	37.500	134	Bet TrA	2.8100	6600.0	75	25664	No
362	GOM_NL__2PRFIN20070126_231650_000000512055_00059_25664_4779.N1	26-JAN-2007 23:16:50	Dark	51.000	4	Alp1Cen	-0.010000	5800.0	102	25664	No
363	GOM_NL__2PRFIN20070126_232124_000000462055_00059_25664_4780.N1	26-JAN-2007 23:21:24	Dark	46.000	12	Alp1Cru	0.77500	30000.	92	25664	No
364	GOM_NL__2PRFIN20070126_232518_000000392055_00059_25664_4781.N1	26-JAN-2007 23:25:18	Dark	39.000	29	Bet Car	1.6720	10200.	78	25664	No
365	GOM_NL__2PRFIN20070126_232733_000000402055_00059_25664_4782.N1	26-JAN-2007 23:27:33	Dark	39.500	71	lot Car	2.2460	7700.0	79	25664	No
366	GOM_NL__2PRFIN20070126_232920_000000382055_00059_25664_4783.N1	26-JAN-2007 23:29:20	Dark	38.000	46	Del Vel	1.9540	10600.	76	25664	No
367	GOM_NL__2PRFIN20070126_233155_000000412055_00059_25664_4784.N1	26-JAN-2007 23:31:55	Dark	40.500	34	Gam2Vel	1.7930	23000.	81	25664	No
368	GOM_NL__2PRFIN20070126_233401_000000392055_00059_25664_4785.N1	26-JAN-2007 23:34:01	Straylight	39.000	70	Zet Pup	2.2460	39000.	78	25664	No
369	GOM_NL__2PRFIN20070126_233528_000000432055_00059_25664_4786.N1	26-JAN-2007 23:35:28	Straylight	42.500	117	Pi Pup	2.7060	3800.0	85	25664	No
370	GOM_NL__2PRFIN20070126_233756_000000412055_00059_25664_4787.N1	26-JAN-2007 23:37:56	Straylight	40.500	23	21Eps CMa	1.5020	26000.	81	25664	No
371	GOM_NL__2PRFIN20070126_233919_000000382055_00059_25664_4788.N1	26-JAN-2007 23:39:19	Straylight	37.500	179	24Omi2CMa	3.0320	24000.	75	25664	No
372	GOM_NL__2PRFIN20070126_234128_000000432055_00059_25664_4789.N1	26-JAN-2007 23:41:28	Straylight	43.000	1	9Alp CMa	-1.4400	11000.	86	25664	No
373	GOM_NL__2PRFIN20070126_234729_000000502055_00059_25664_4790.N1	26-JAN-2007 23:47:29	Tw_i_and_stray	49.500	8	10Alp CMi	0.40000	6500.0	99	25664	No
374	GOM_NL__2PRFIN20070126_235045_000000372055_00059_25664_4791.N1	26-JAN-2007 23:50:45	Bright	37.000	44	24Gam Gem	1.9280	11000.	74	25664	No
375	GOM_NL__2PRFIN20070126_235233_000000382055_00059_25664_4792.N1	26-JAN-2007 23:52:33	Bright	37.500	151	13Mu Gem	2.8900	3000.0	75	25664	No
376	GOM_NL__2PRFIN20070126_235648_000000352055_00059_25664_4793.N1	26-JAN-2007 23:56:48	Bright	35.000	107	37The Aur	2.6490	11000.	70	25664	No
377	GOM_NL__2PRFIN20070126_235855_000000362055_00059_25664_4794.N1	26-JAN-2007 23:58:55	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	25664	No

### 3. Quality information per product

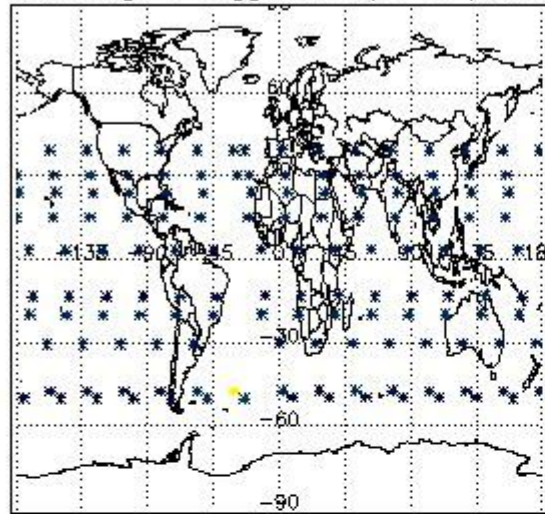
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

#### 3.1 Plot quality information per product (time dependant)

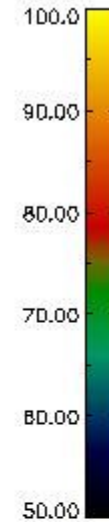
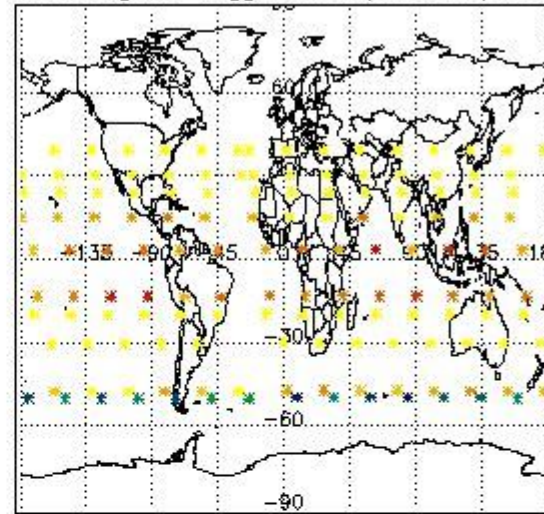


3.2 Plot quality information per product (world map)

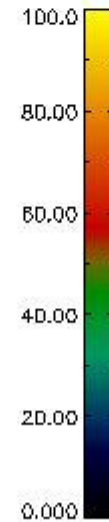
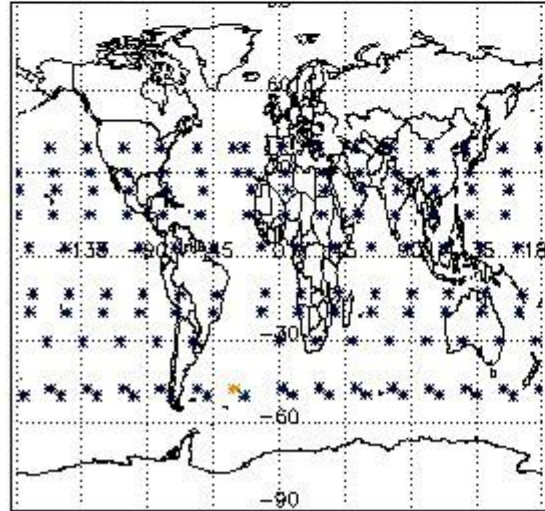
Percentage of flagged data per O3 profile



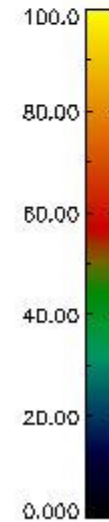
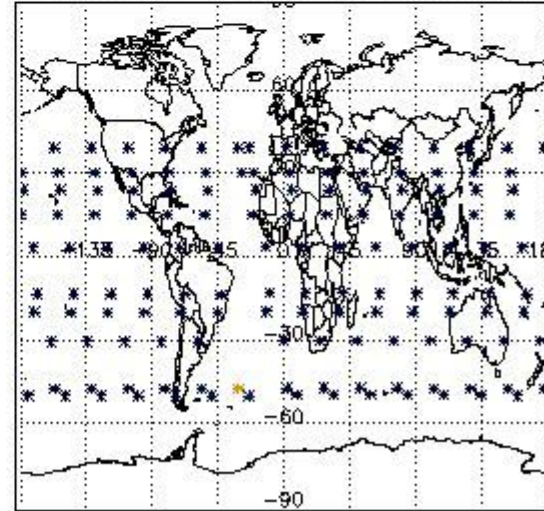
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

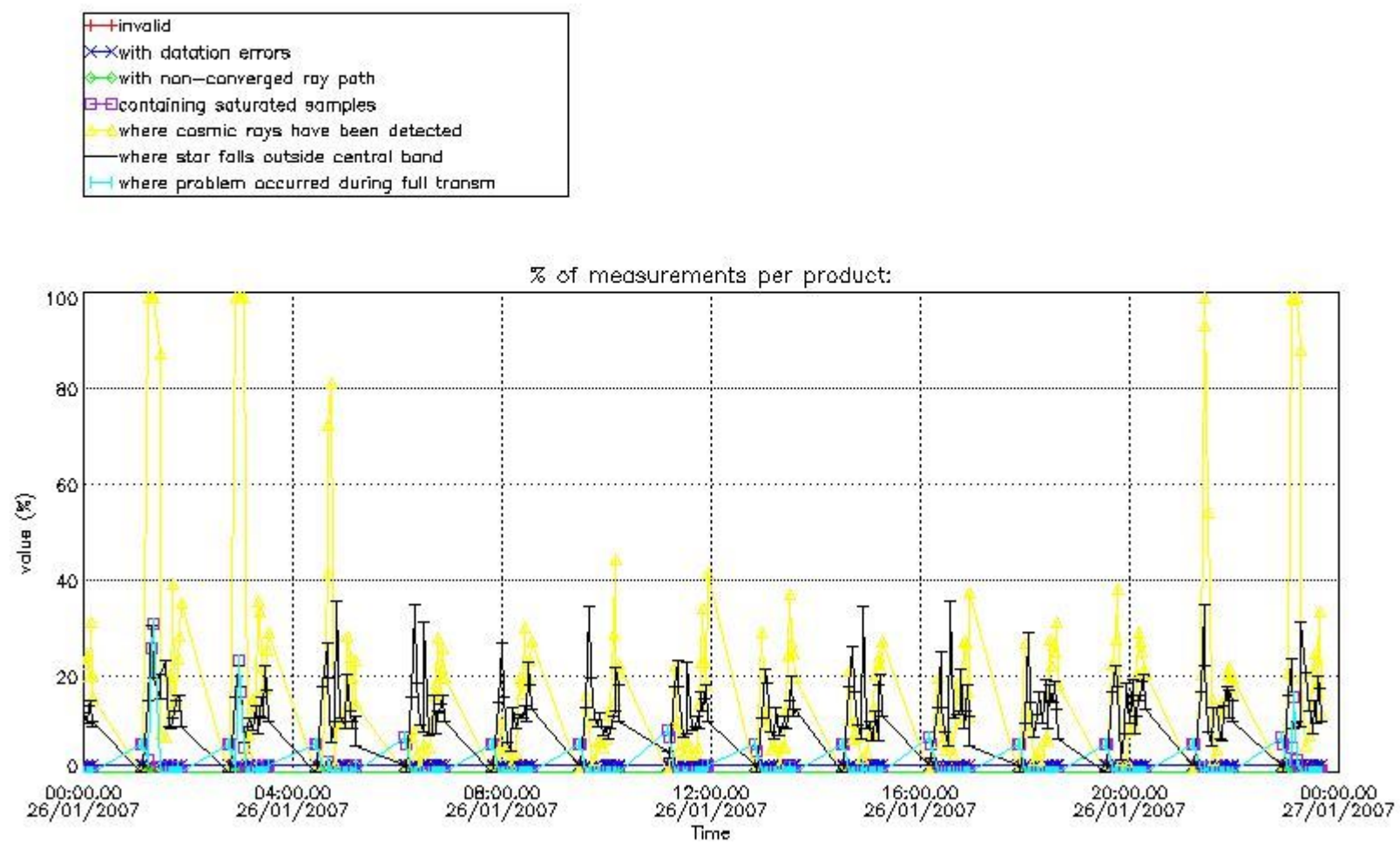


#### 4. Level 1 quality information per product

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

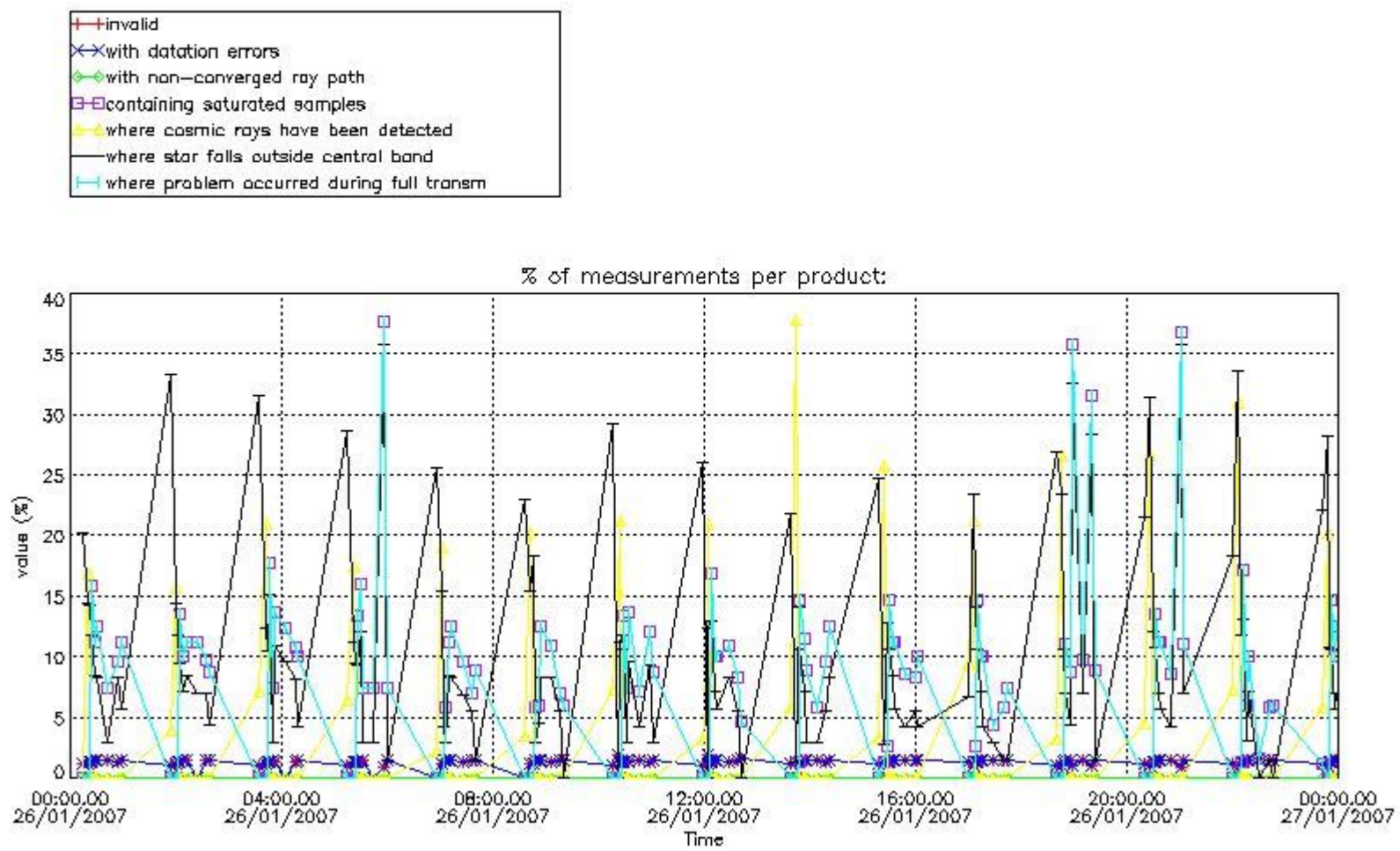
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

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



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

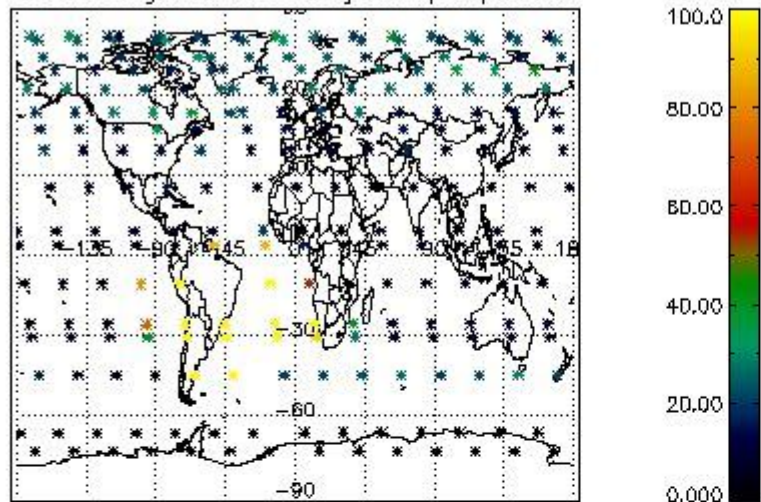




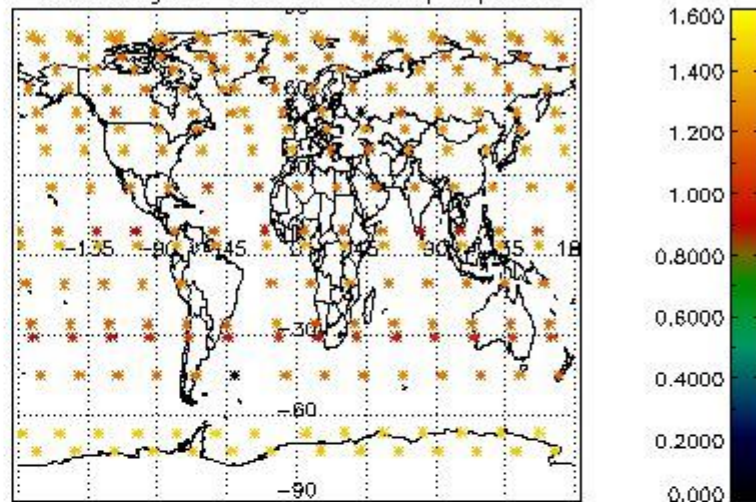
4.2 Plot quality information per product coming from level 1b processing (world map)

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

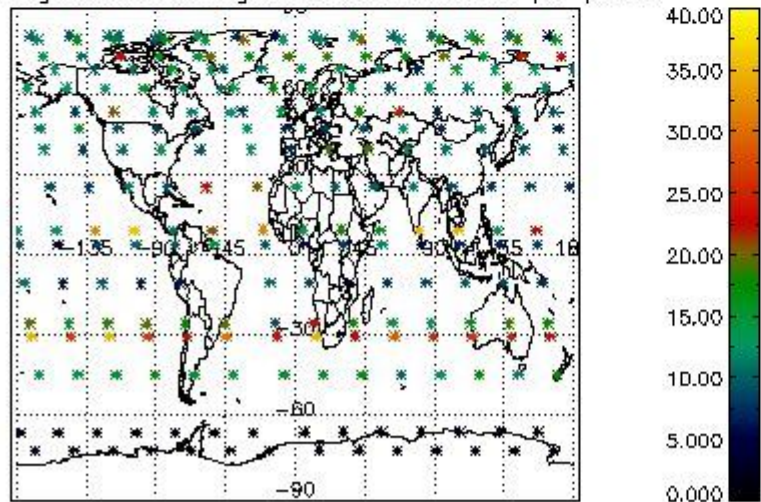
Percentage of cosmic ray hits per profile



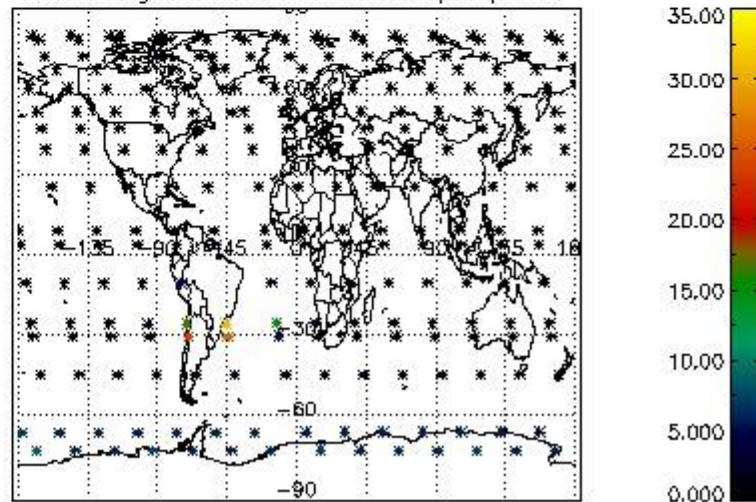
Percentage of datation errors per profile



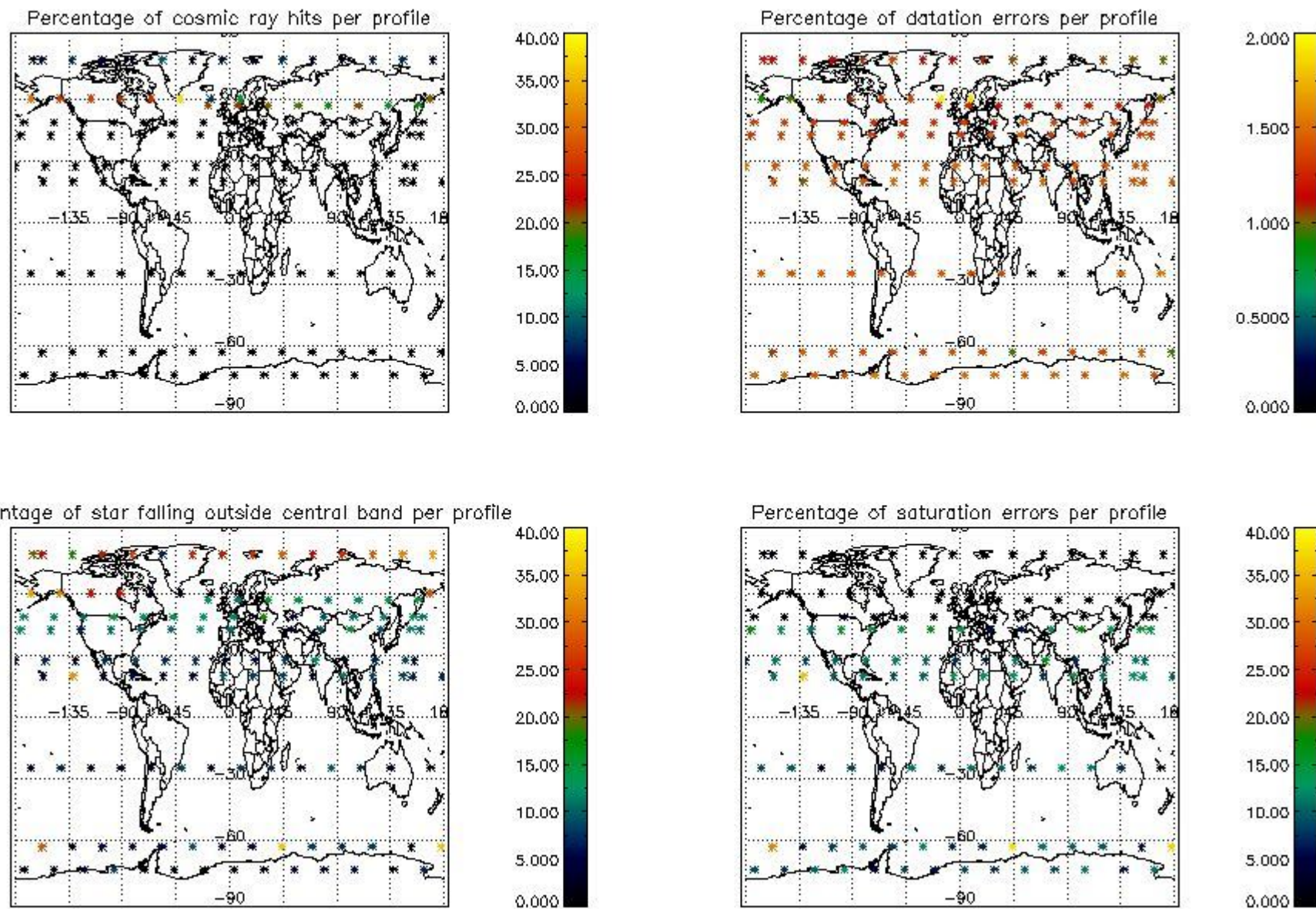
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/o3\_std of the level 2 products. The table below shows the statistics for given STD ranges.

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

- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

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

- Products in dark limb illumination condition: GOM\_NL\_\_2P/NL\_SUMMARY\_QUALITY/obs\_ill\_cond=0
- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

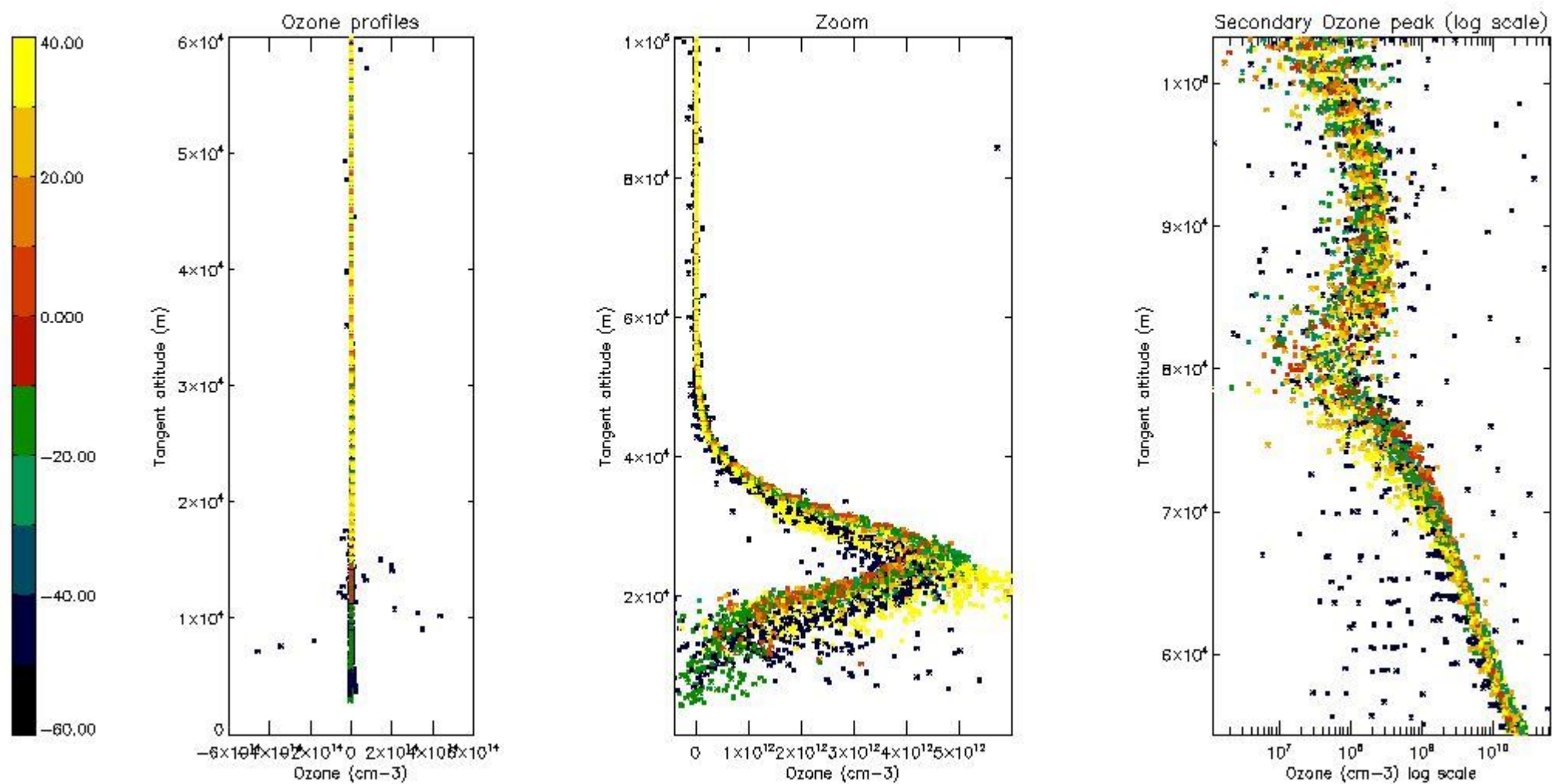
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	40
STD < 20	22

STD < 10	17
STD < 5	11

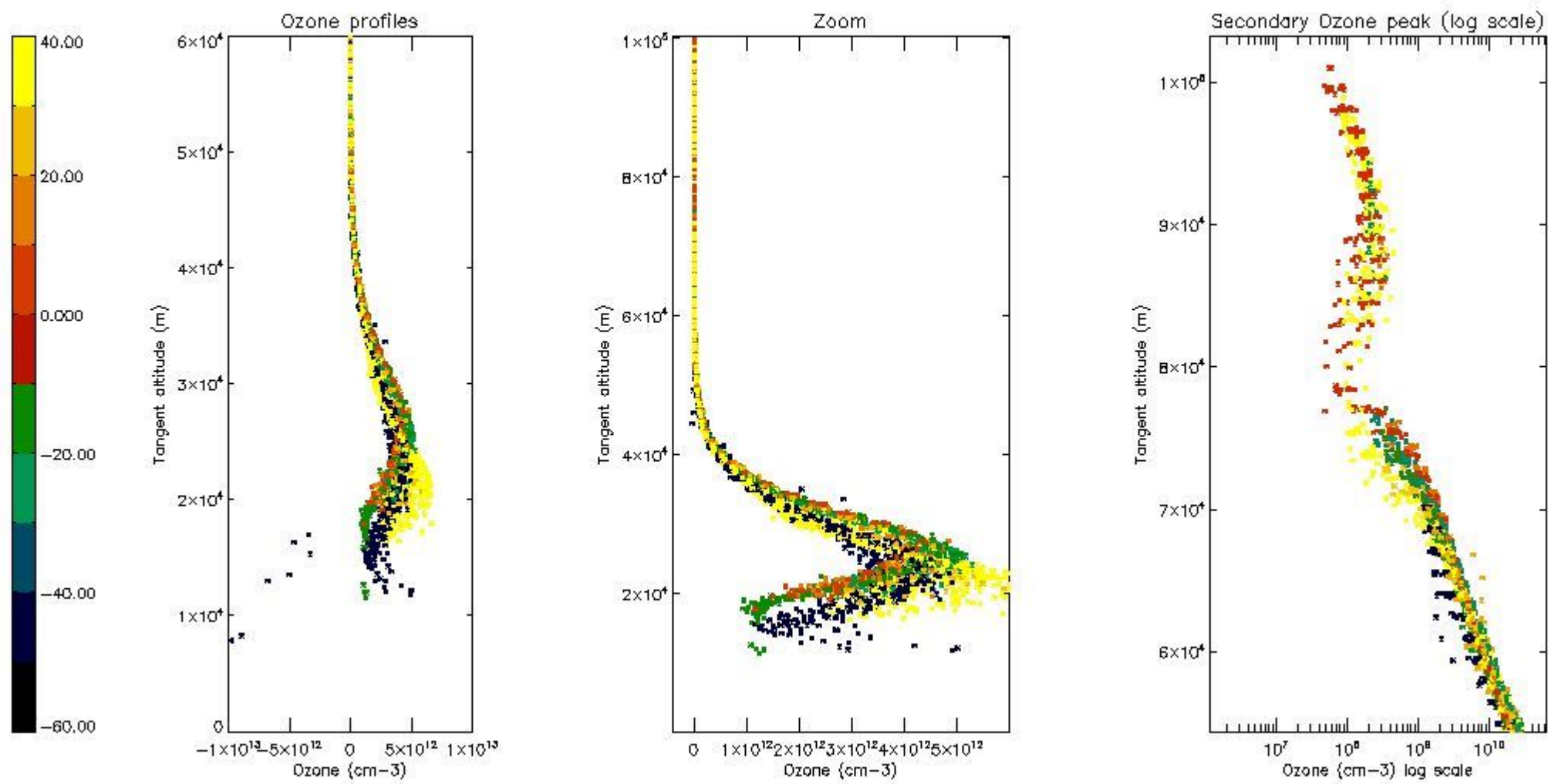
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



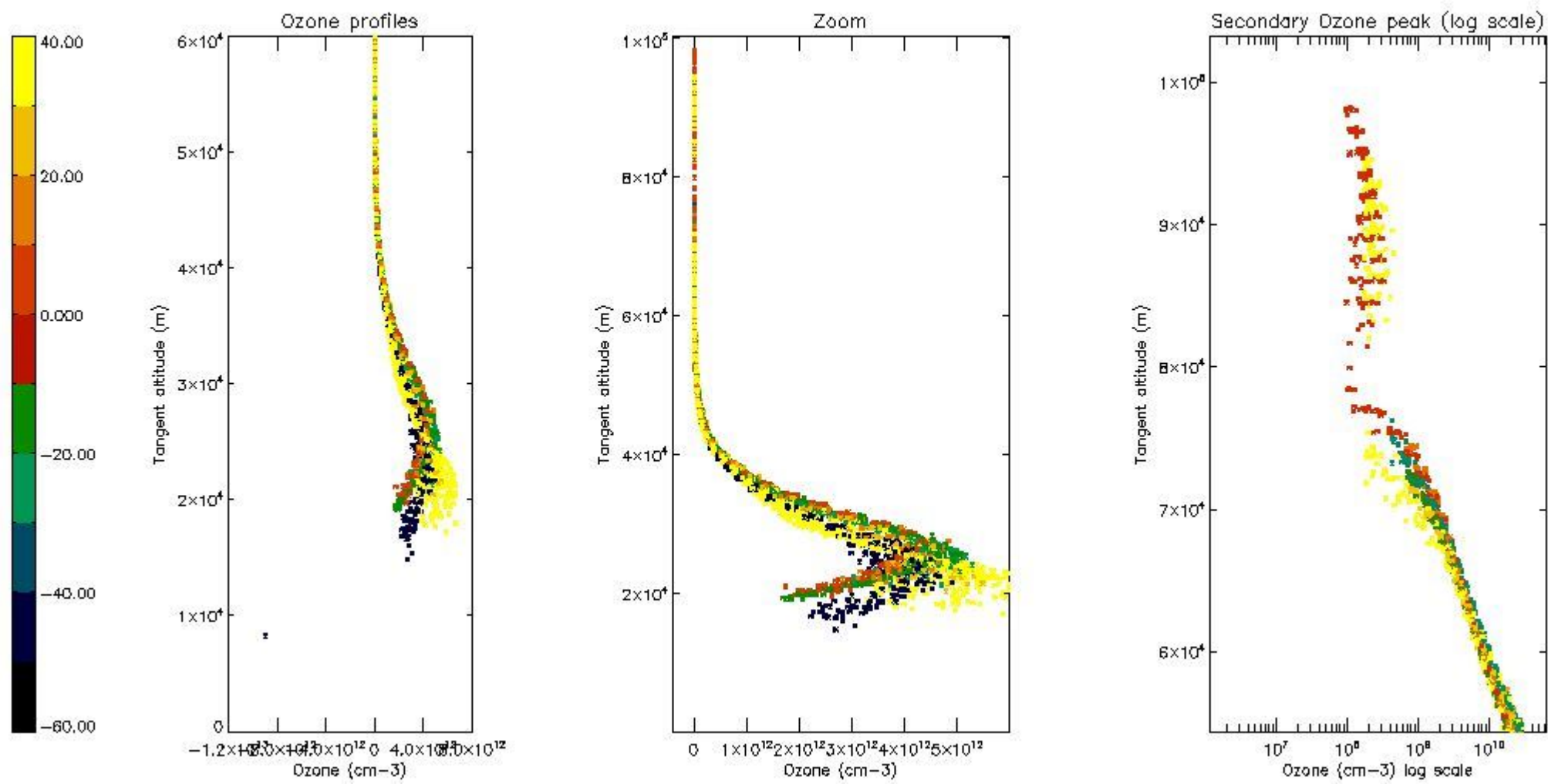
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



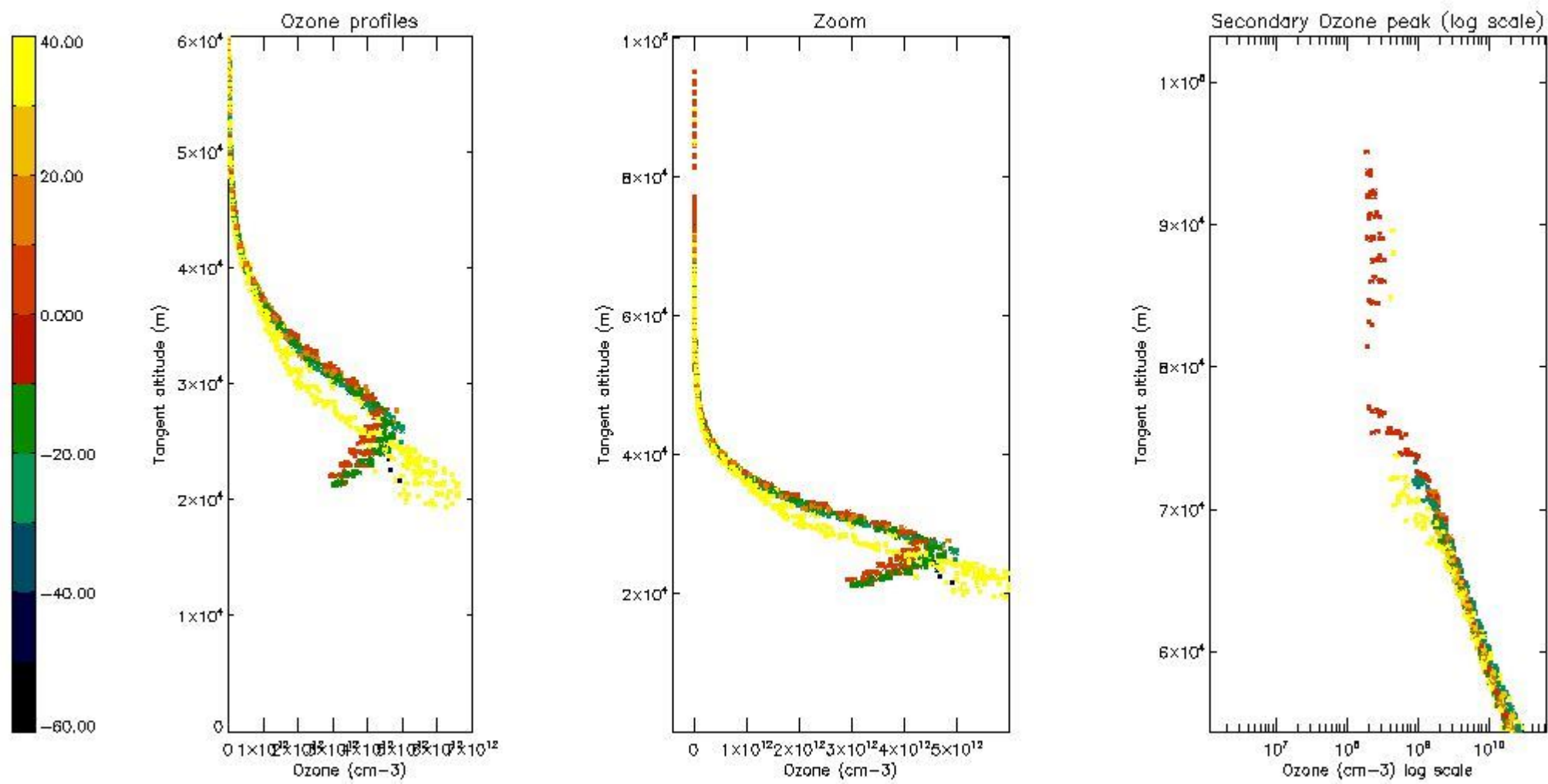
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



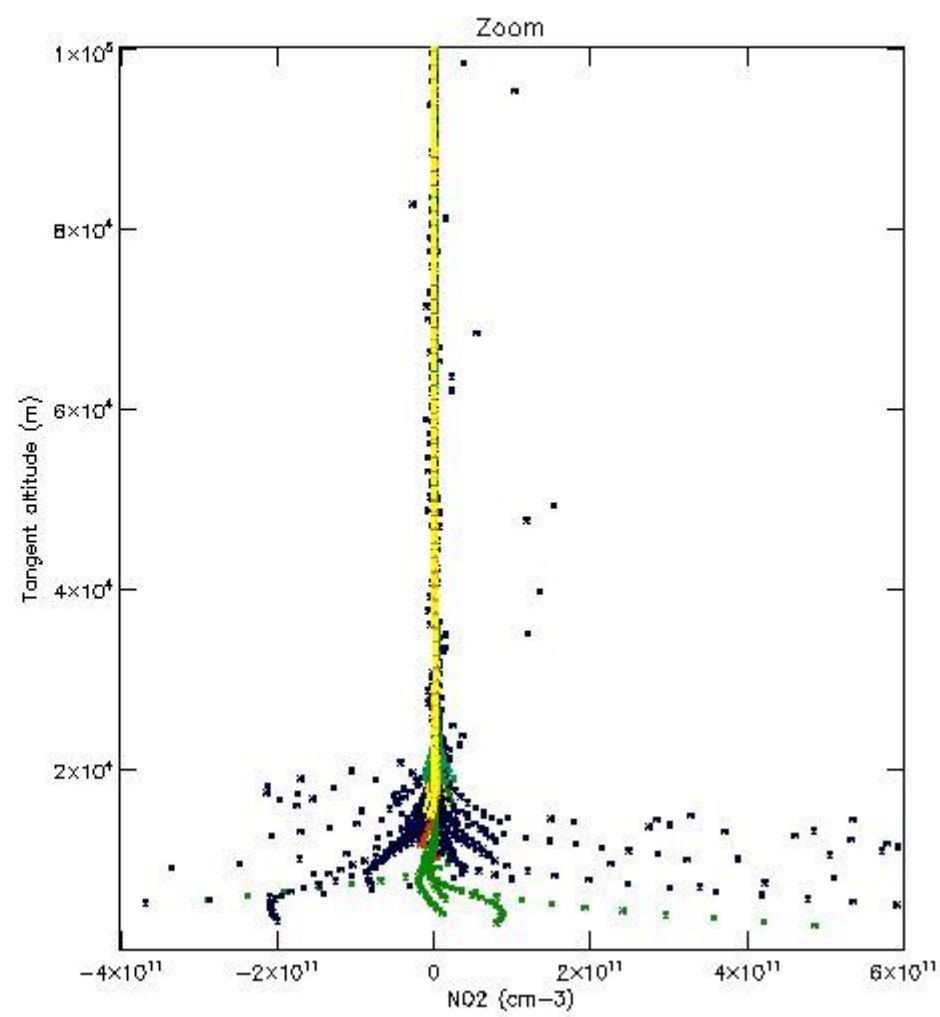
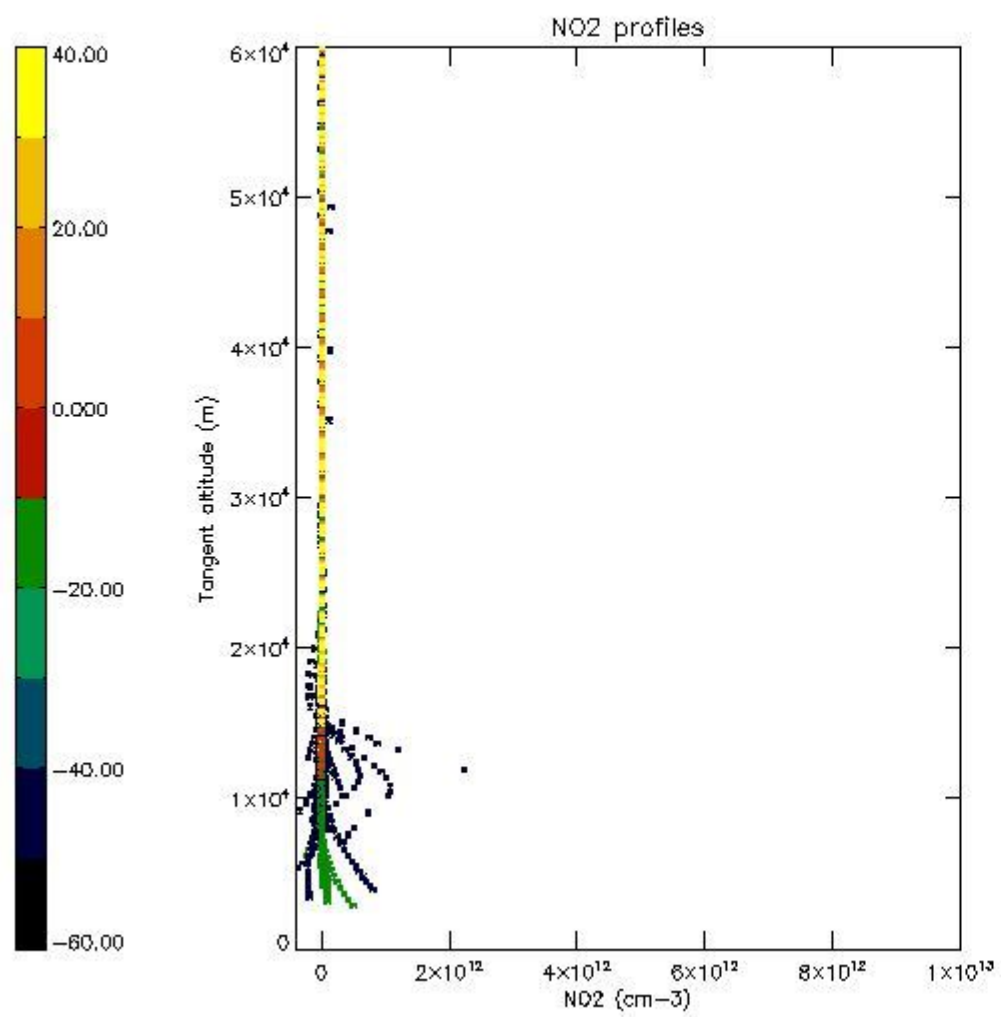
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

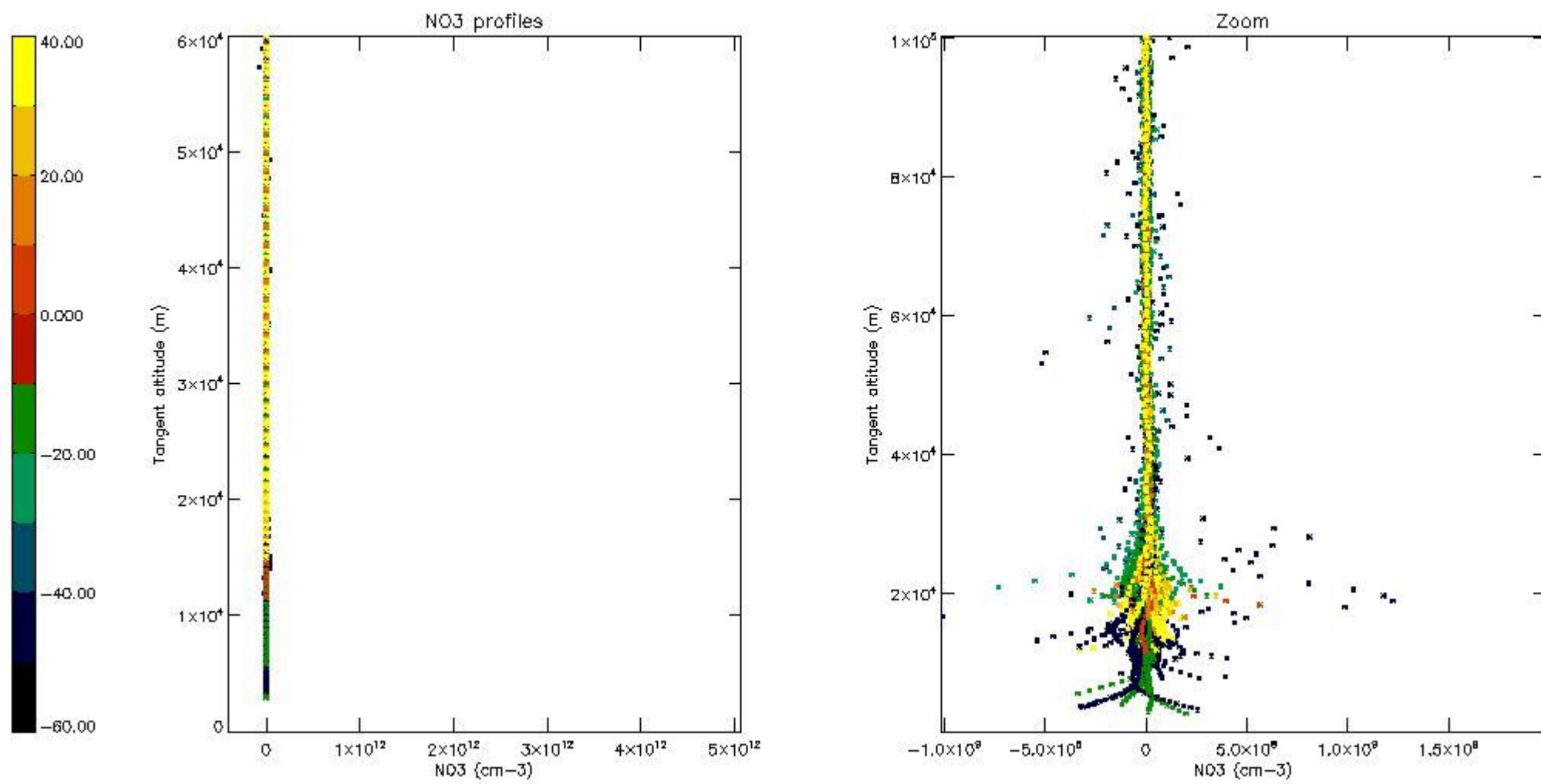
The colorbar represents the latitude.



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

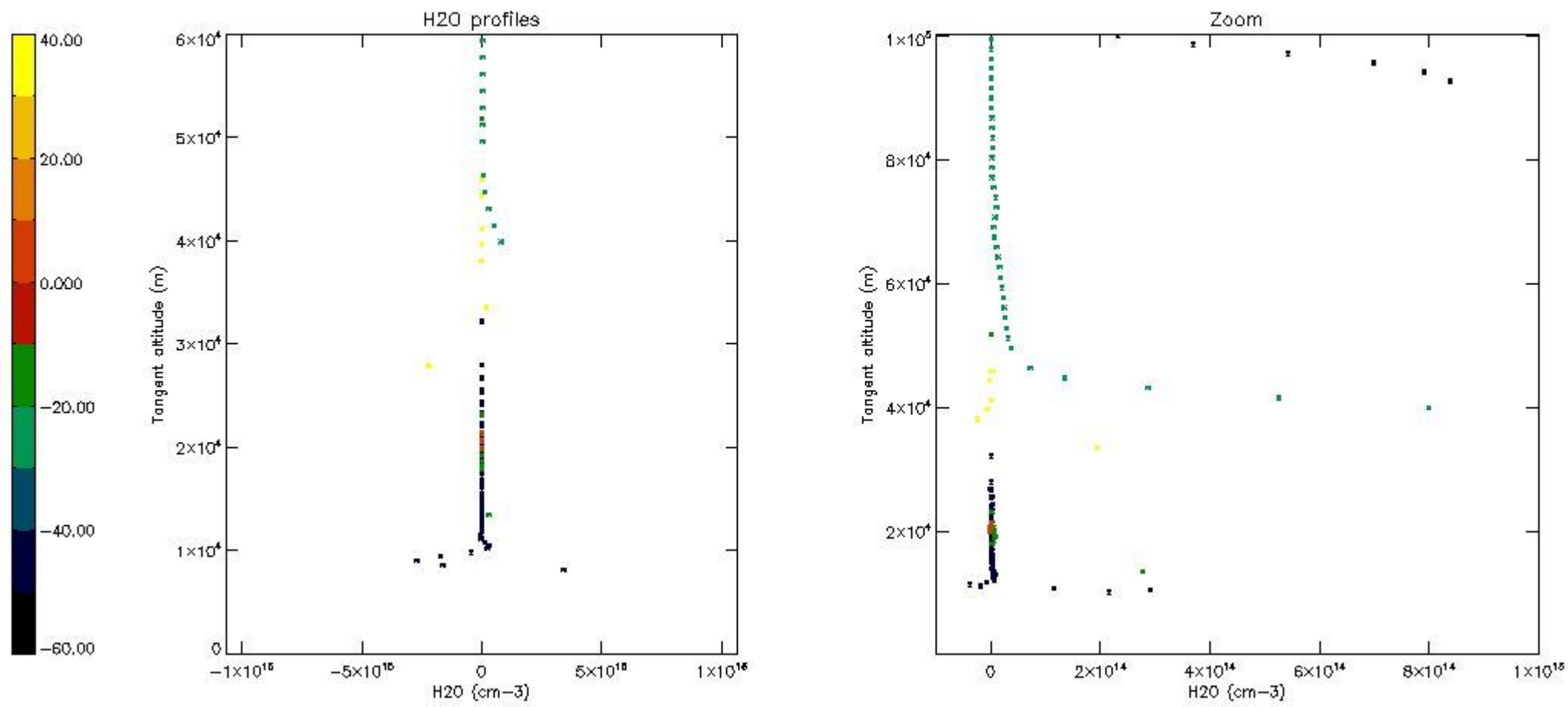
The colorbar represents the latitude.





*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)*

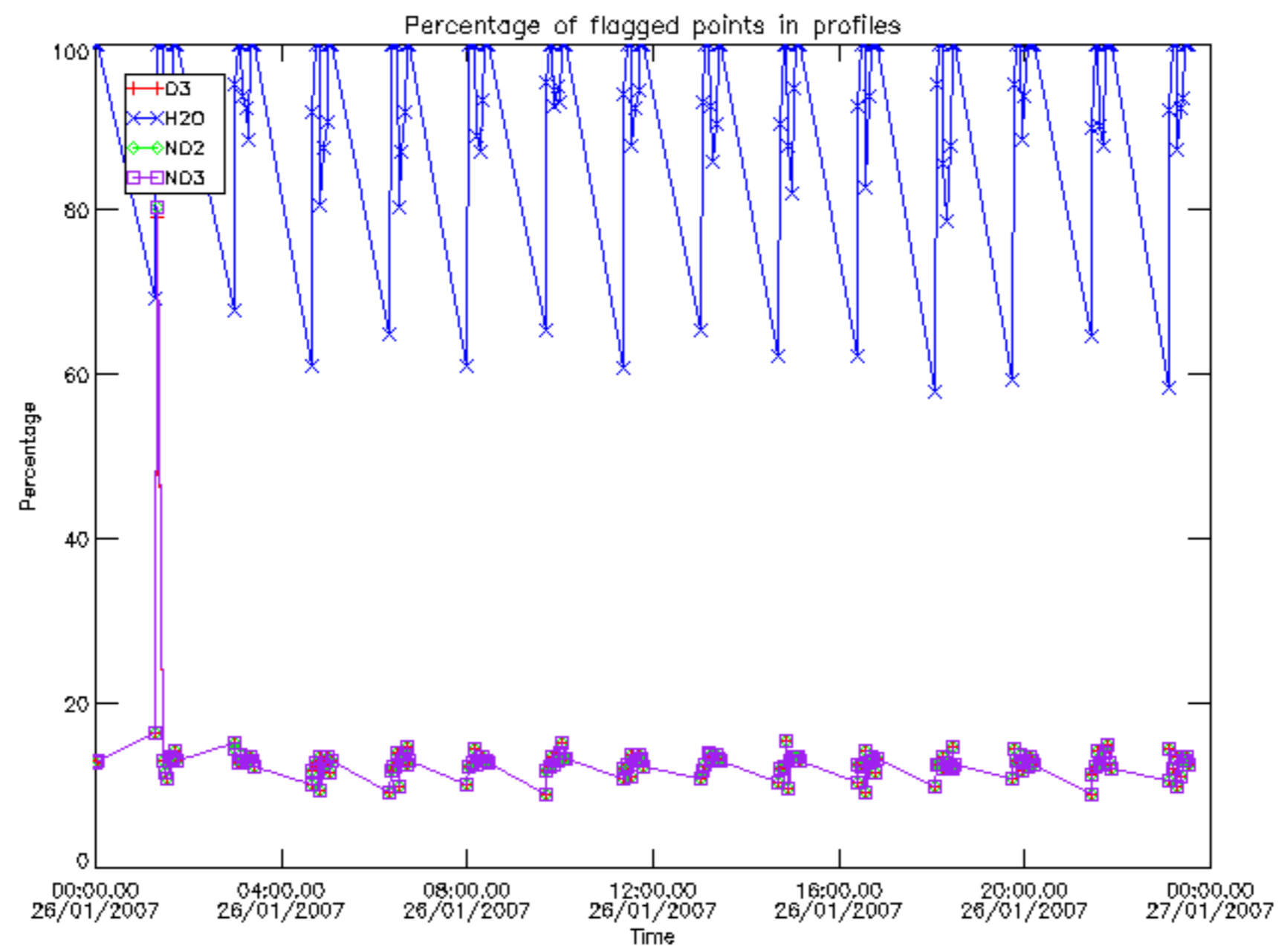
The colorbar represents the latitude.



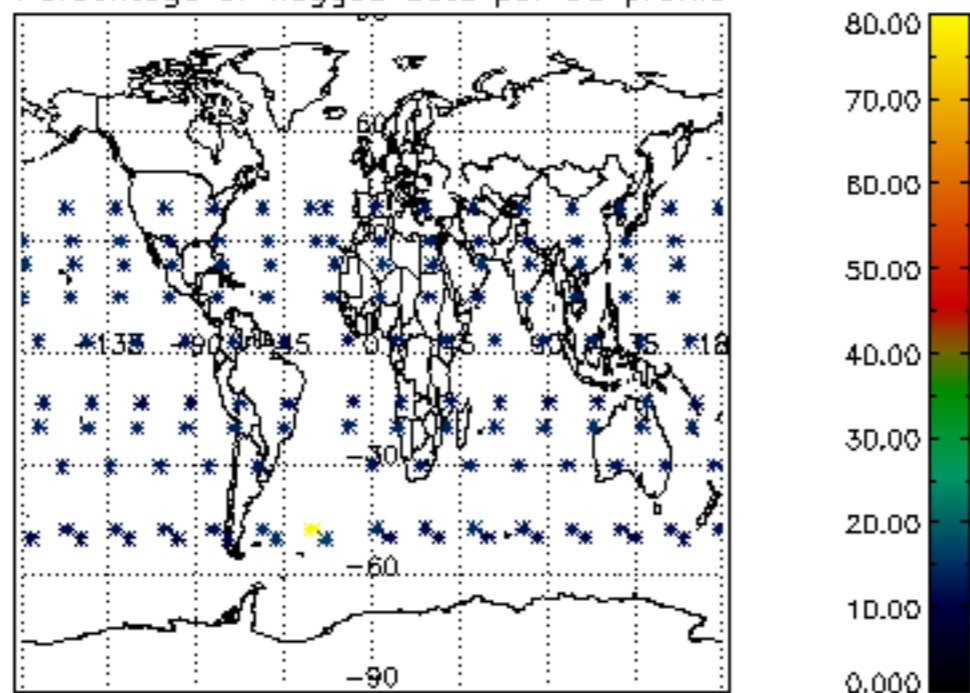
## 6. Auxiliary Data Files used for the production reported in section 2

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.

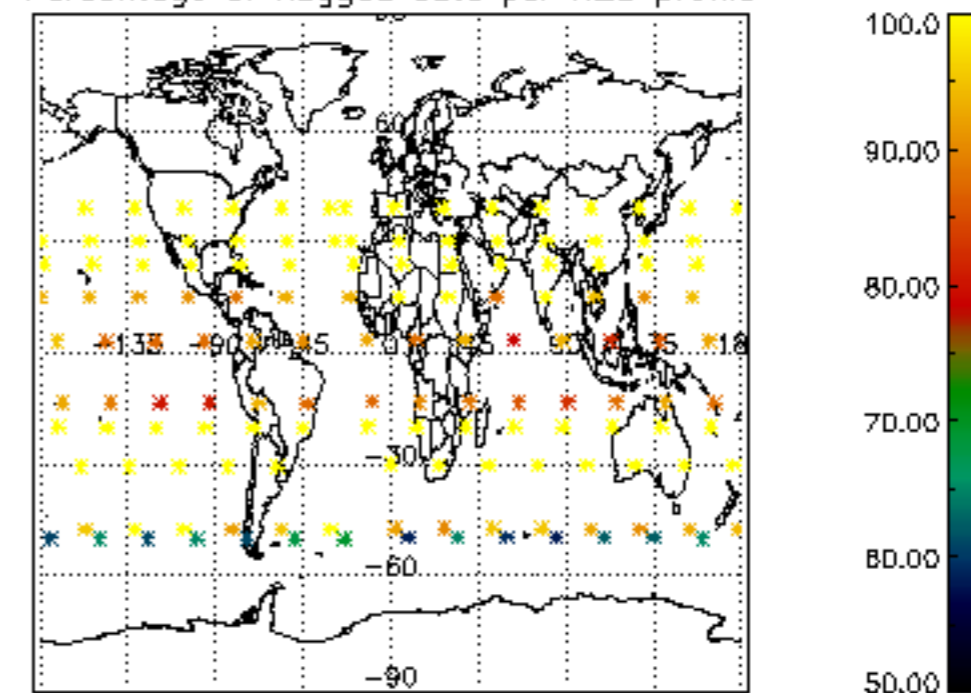
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	26-JAN-2007 00:00:52
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	26-JAN-2007 00:00:52
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	26-JAN-2007 00:00:52



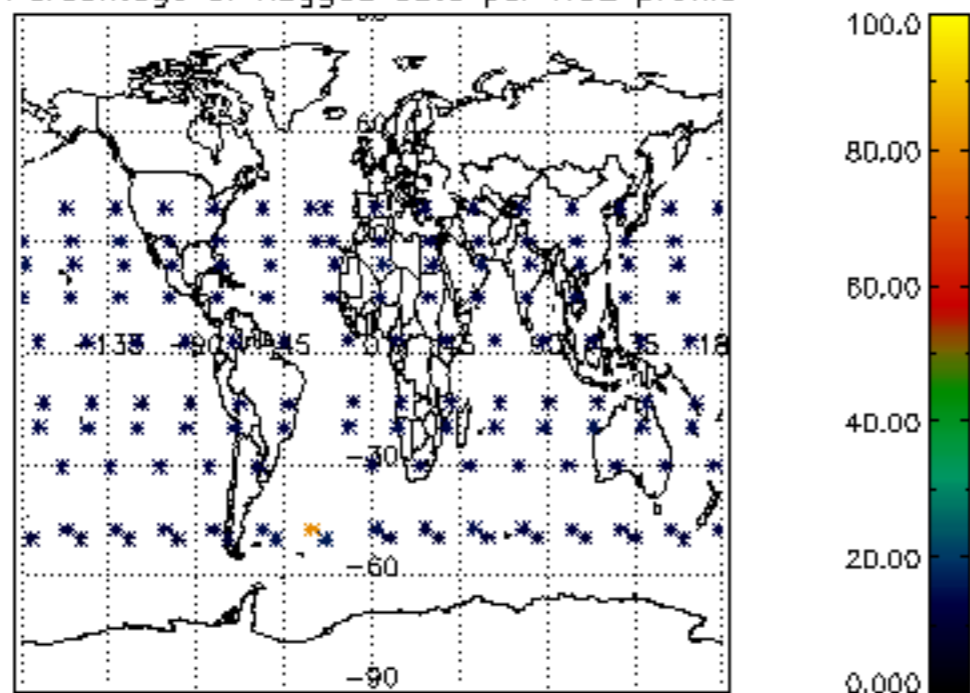
Percentage of flagged data per D3 profile



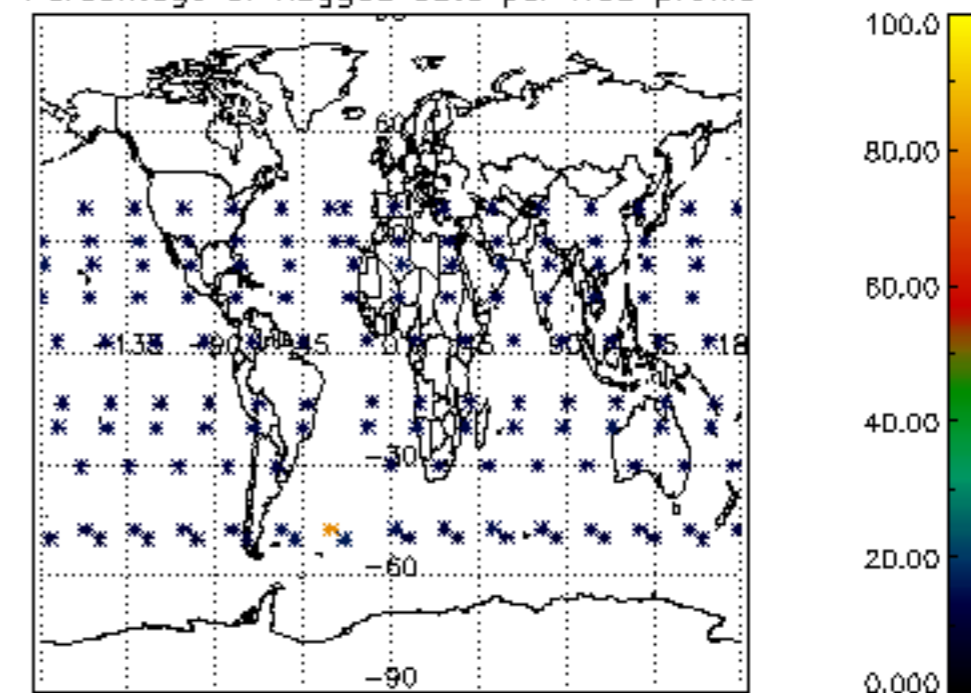
Percentage of flagged data per H2O profile

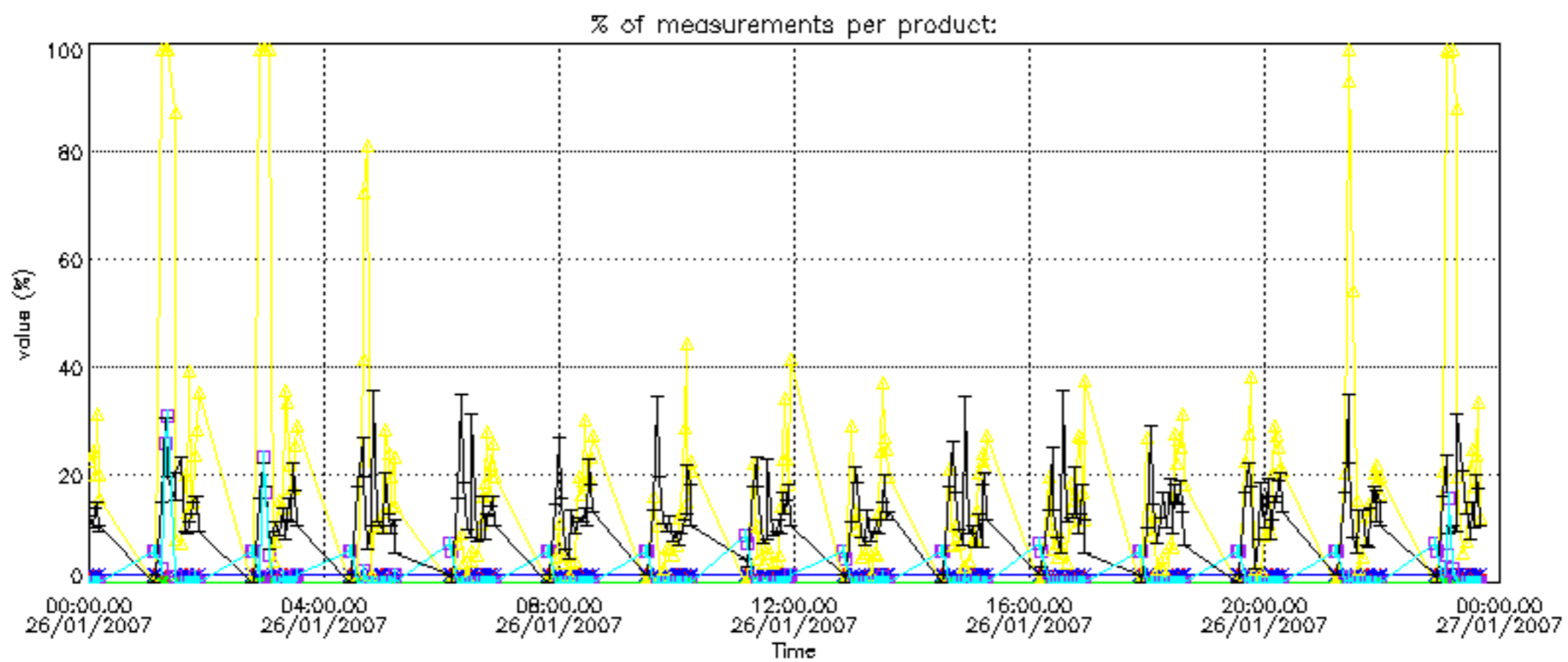


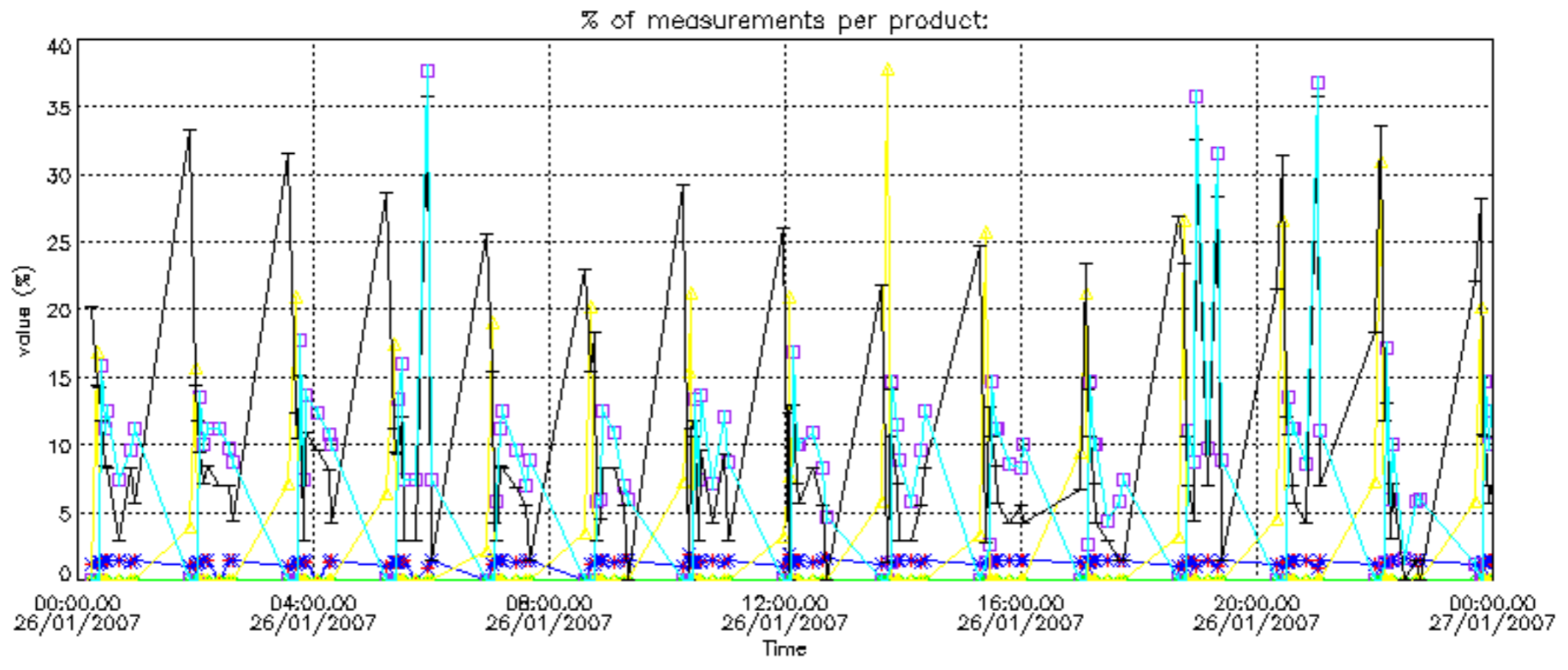
Percentage of flagged data per NO2 profile



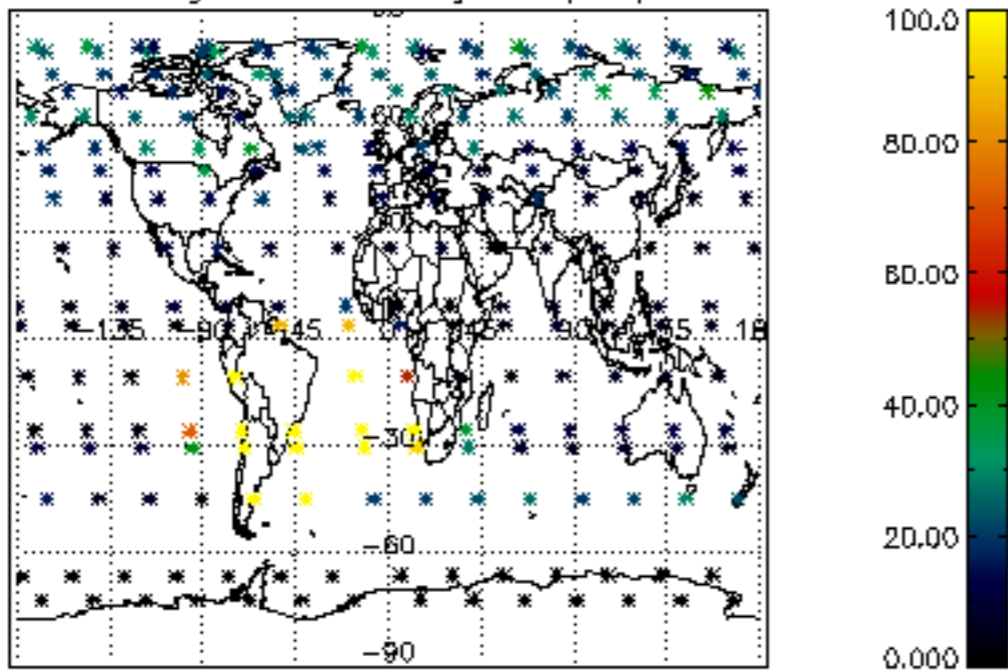
Percentage of flagged data per NO3 profile



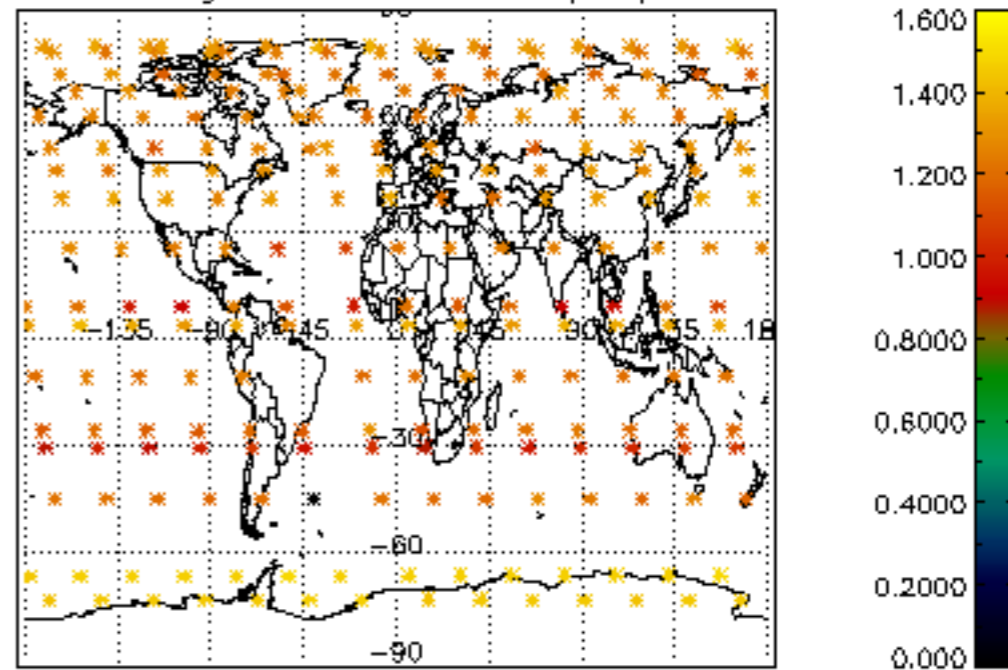




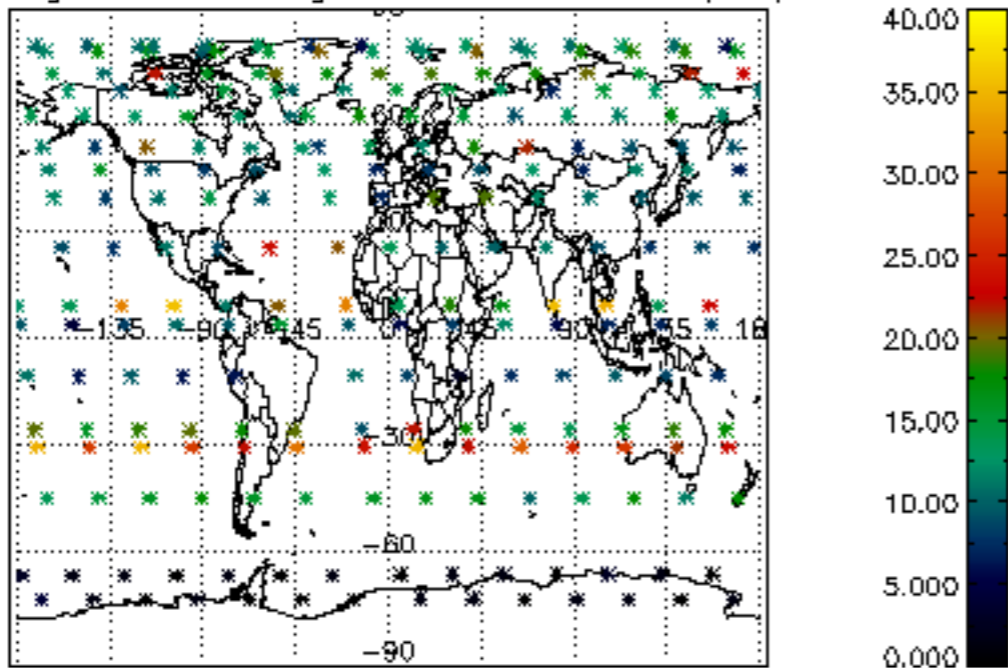
Percentage of cosmic ray hits per profile



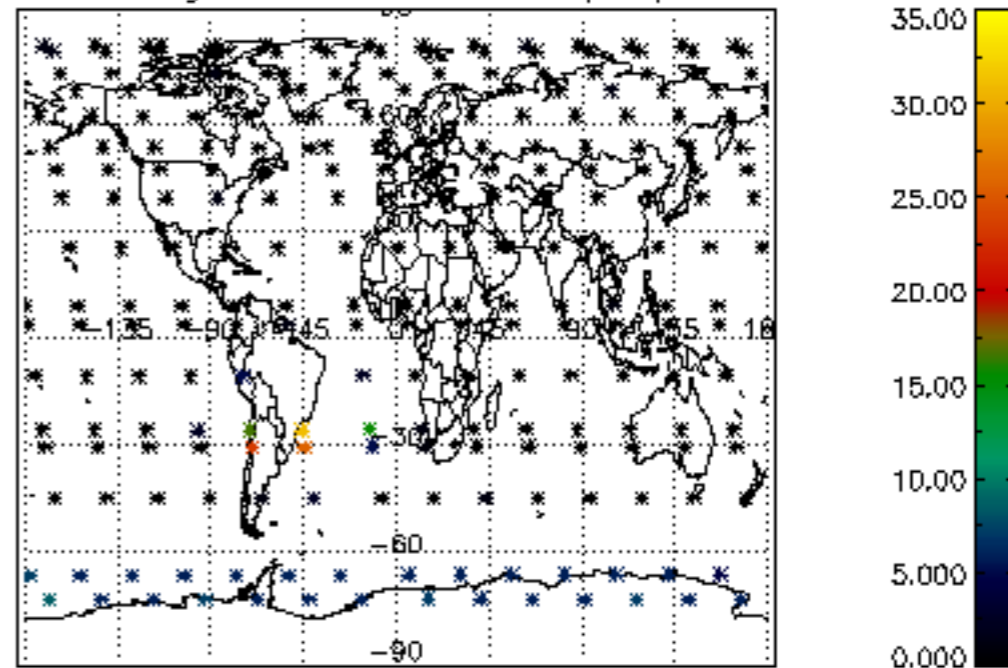
Percentage of datation errors per profile



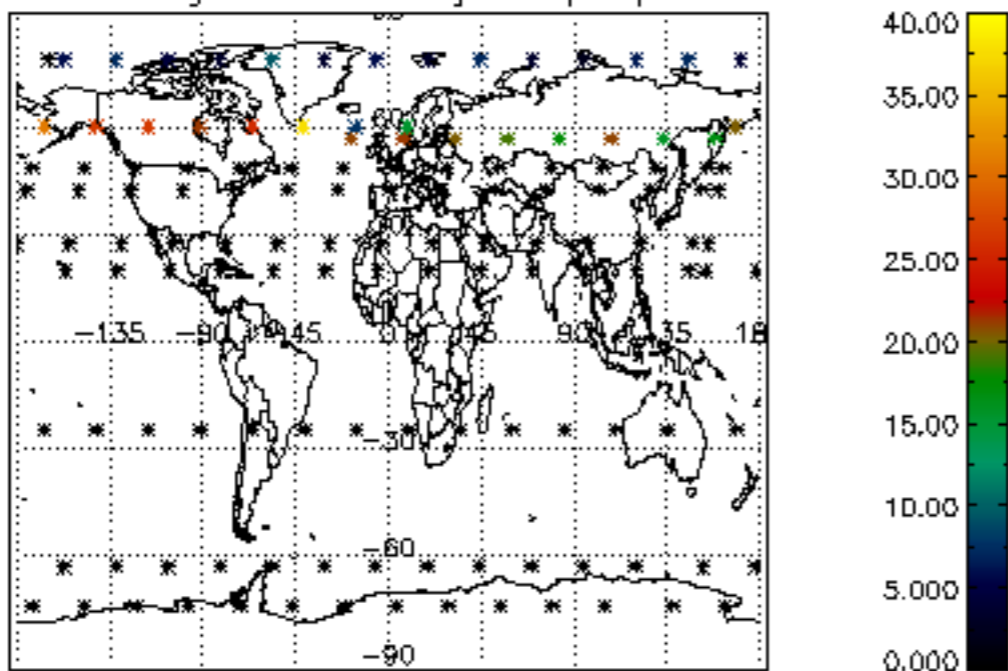
Percentage of star falling outside central band per profile



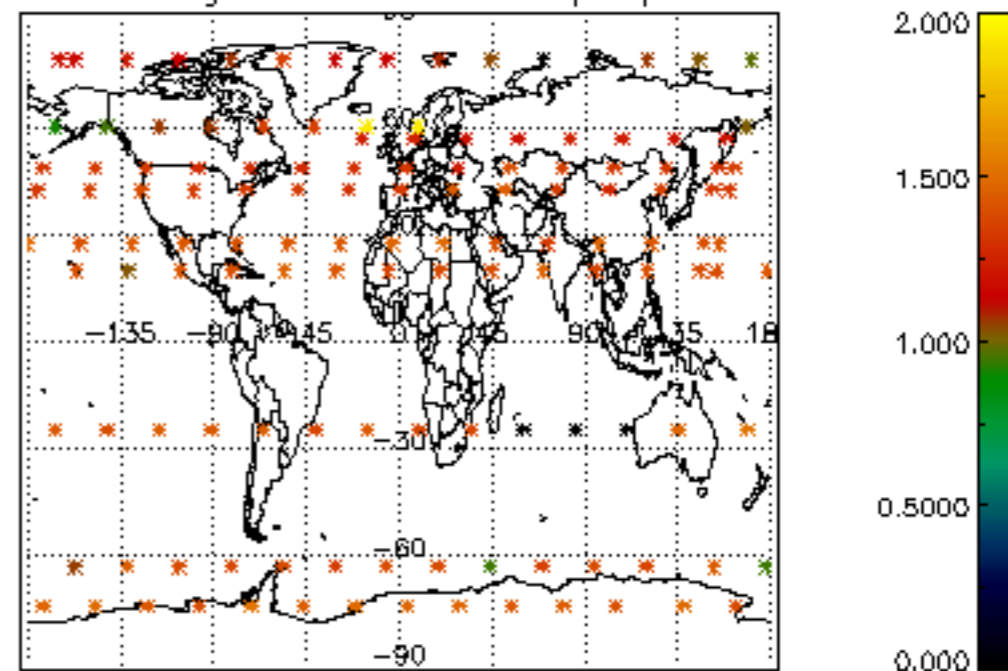
Percentage of saturation errors per profile



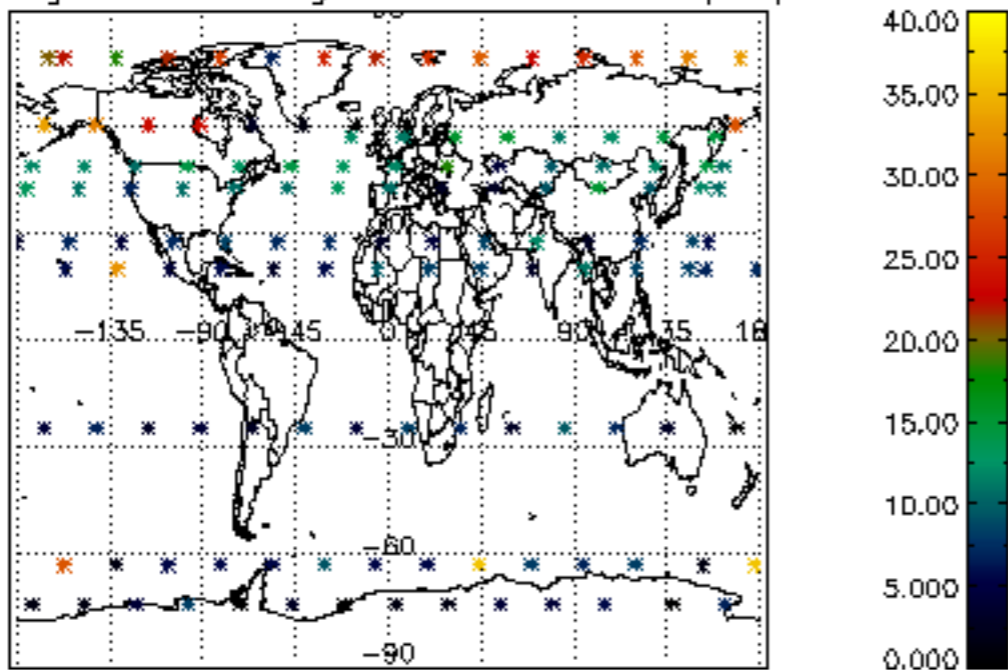
Percentage of cosmic ray hits per profile



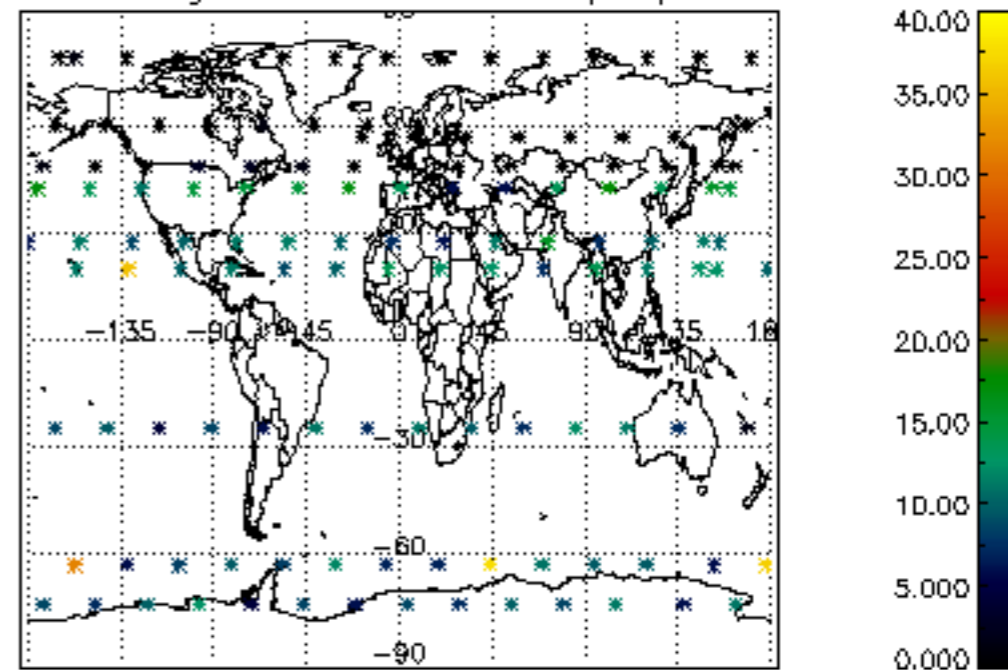
Percentage of datation errors per profile



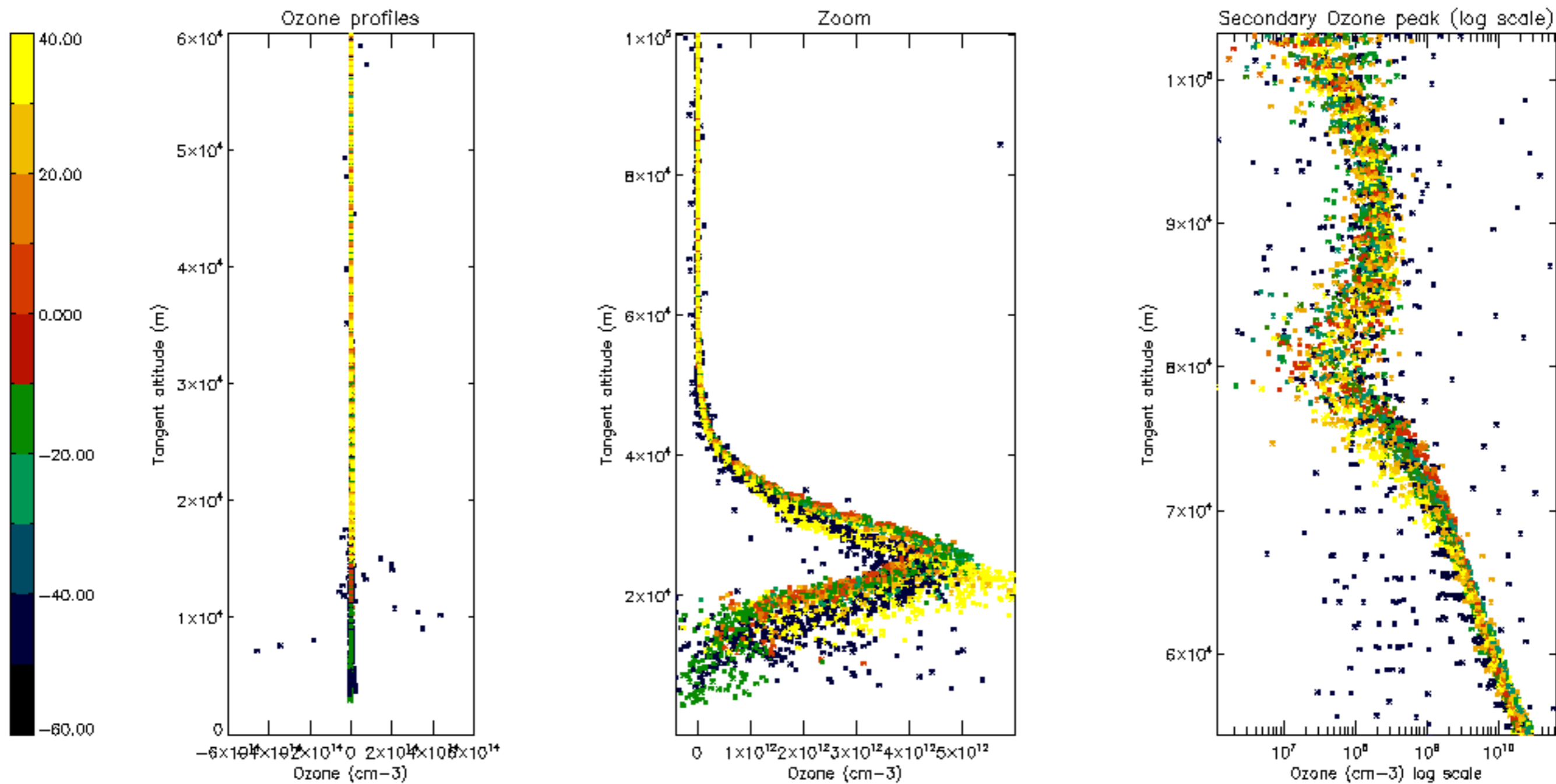
Percentage of star falling outside central band per profile

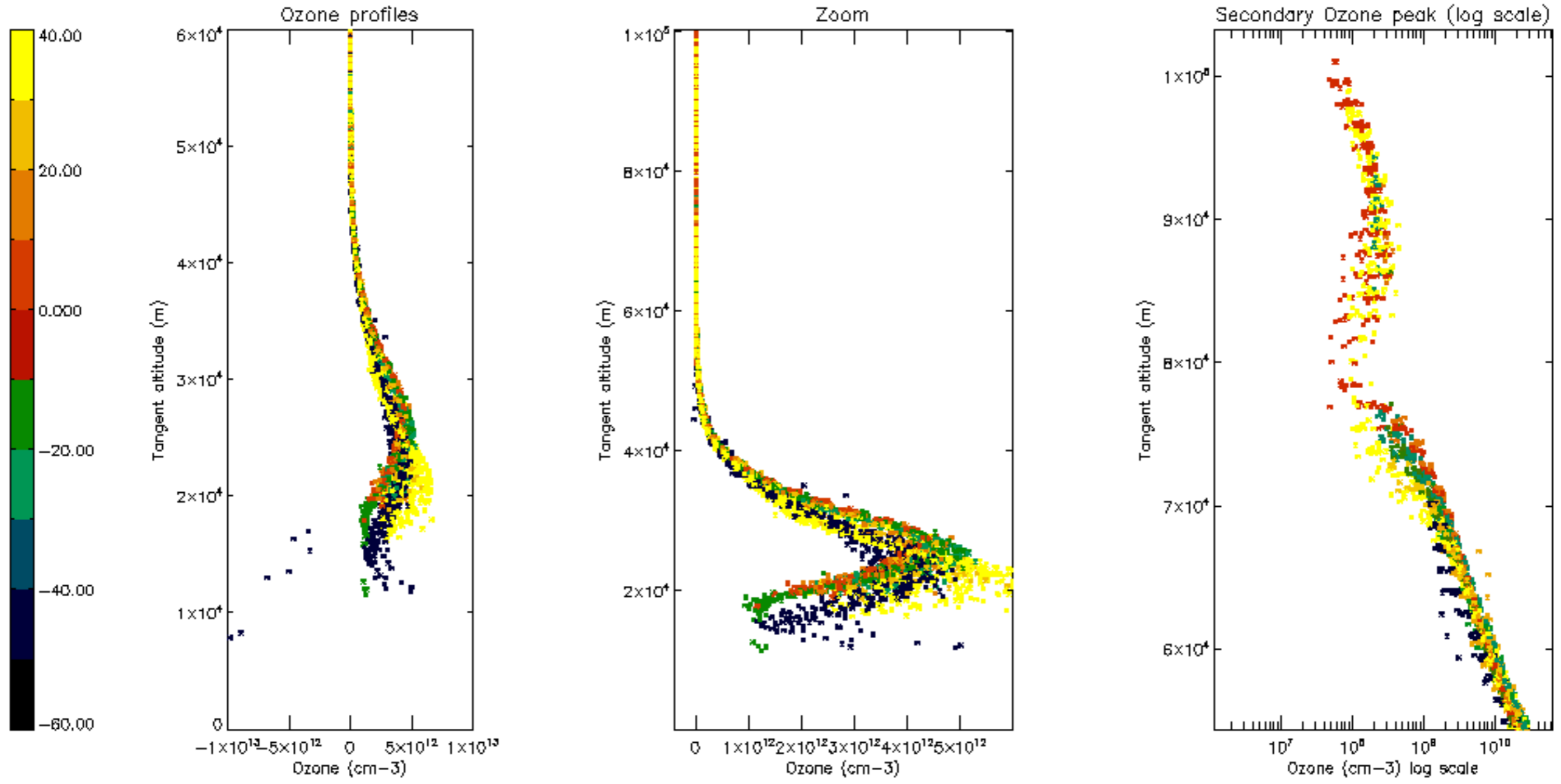


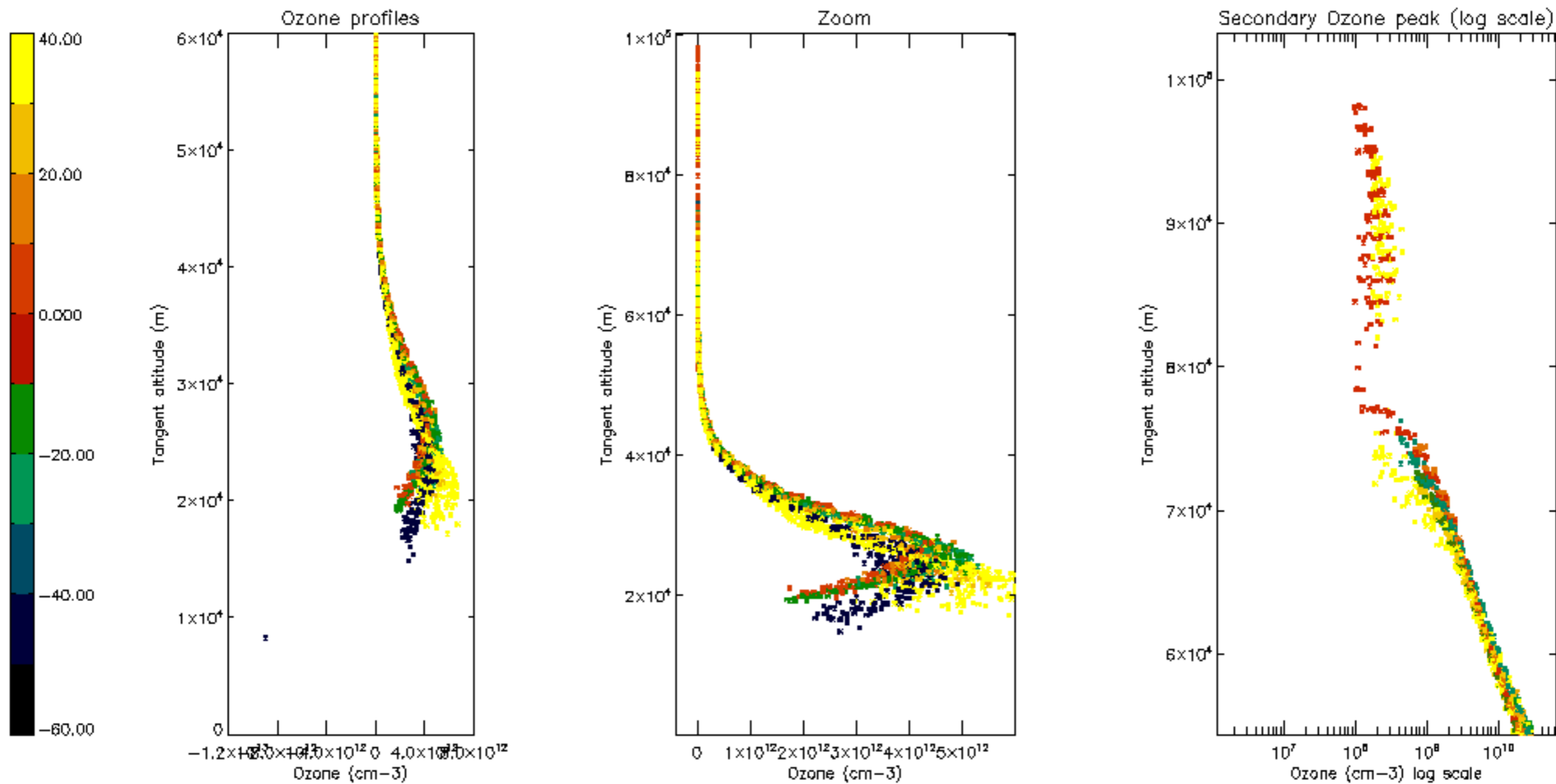
Percentage of saturation errors per profile

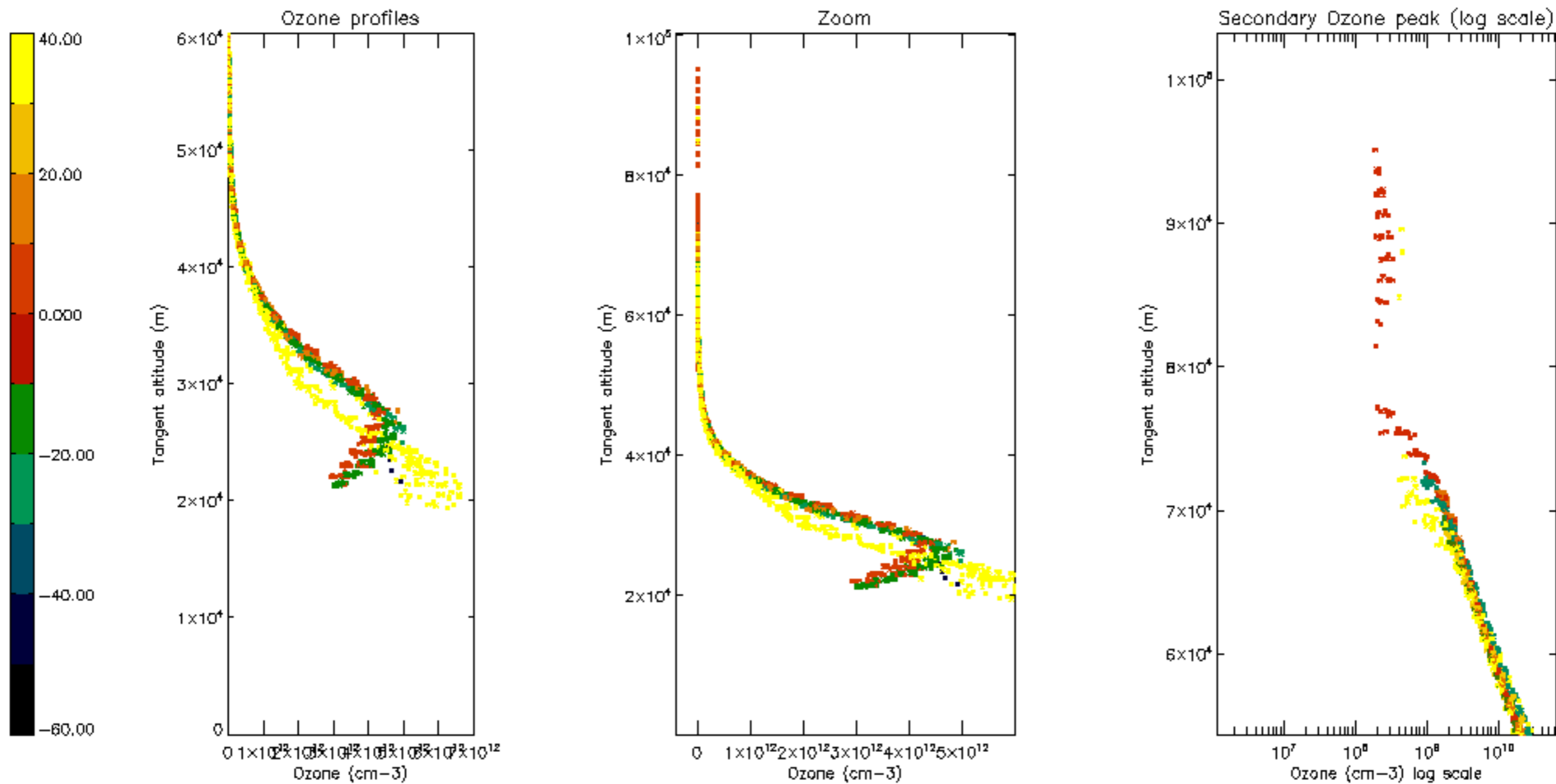


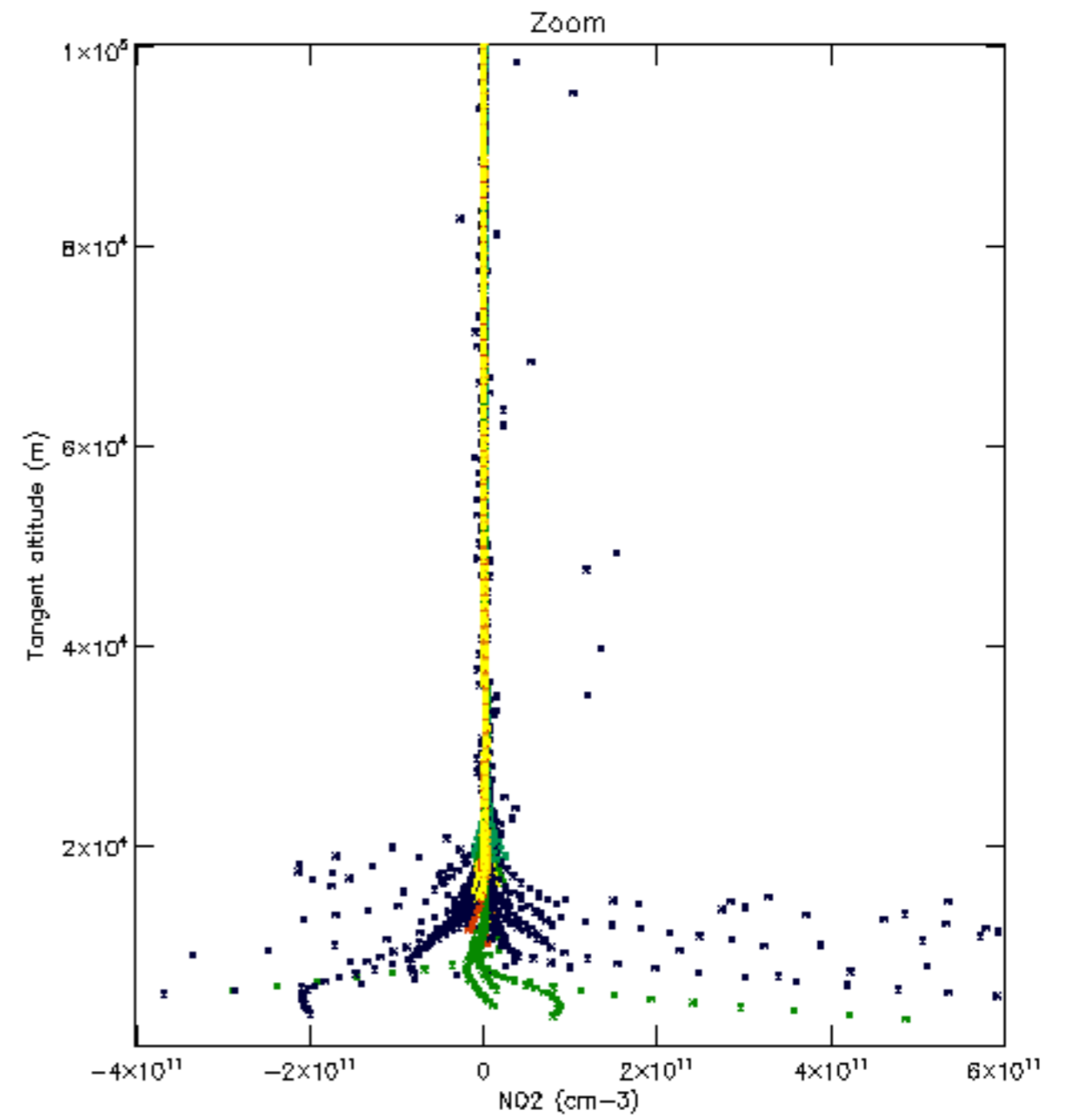
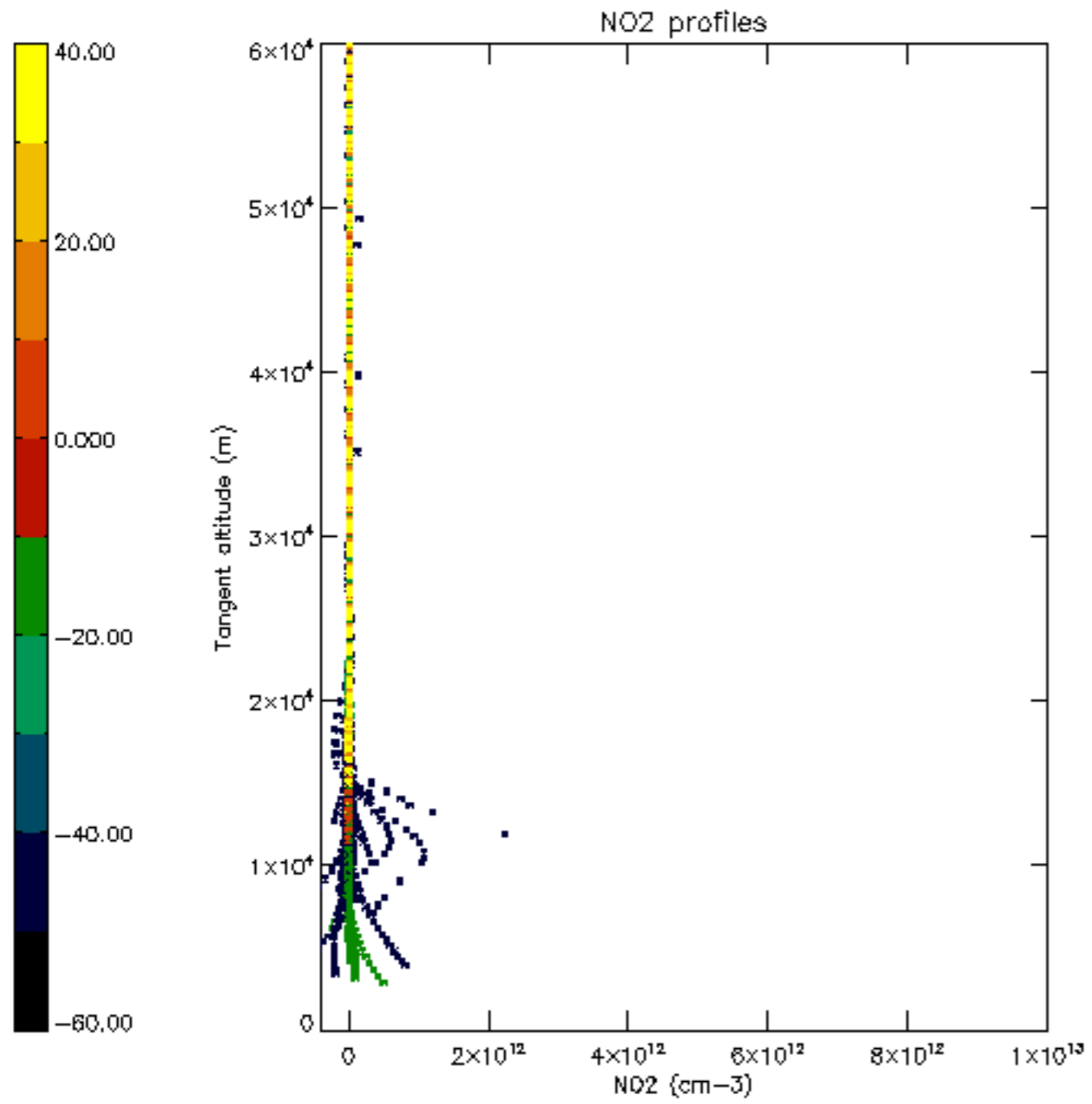


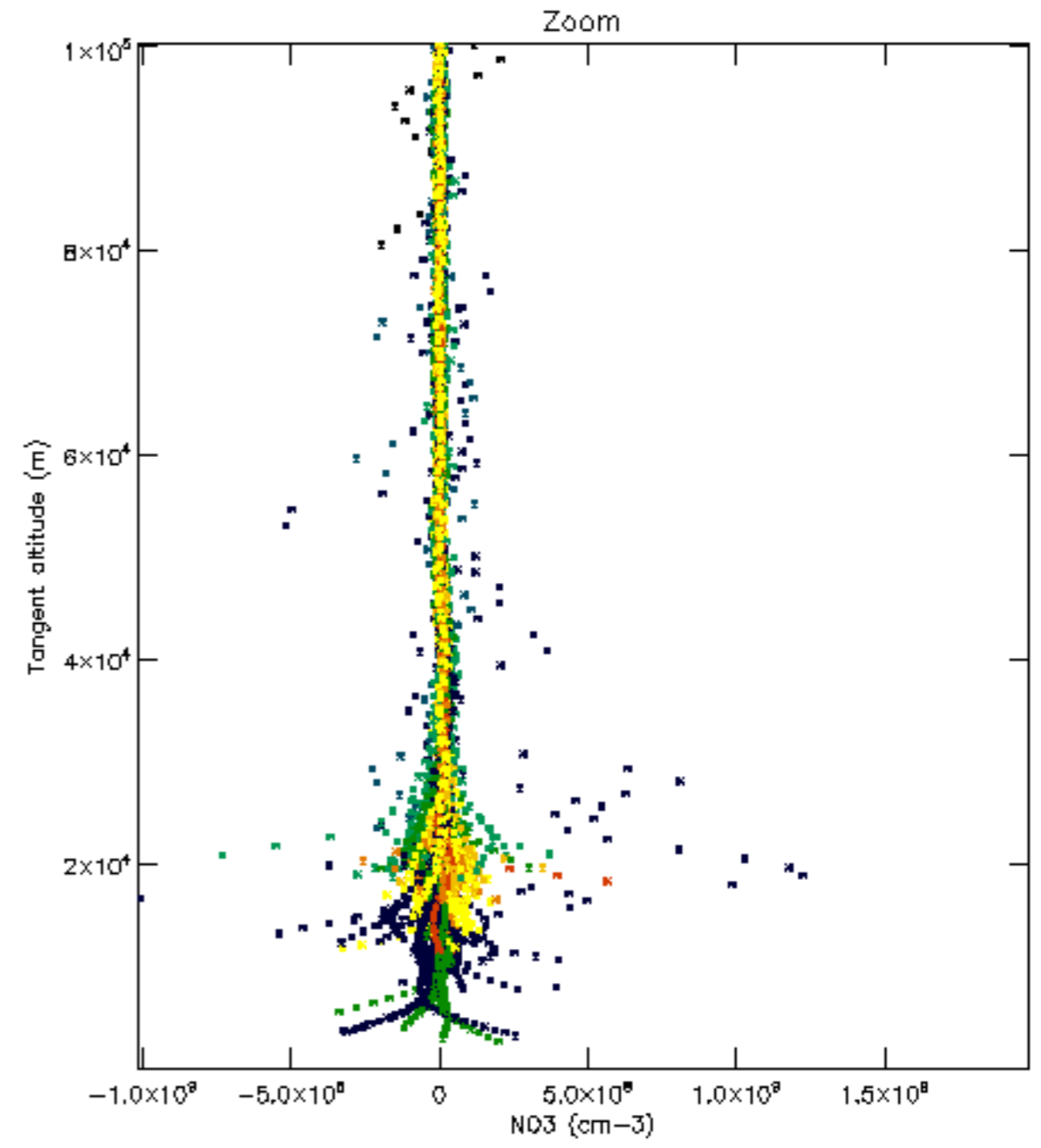
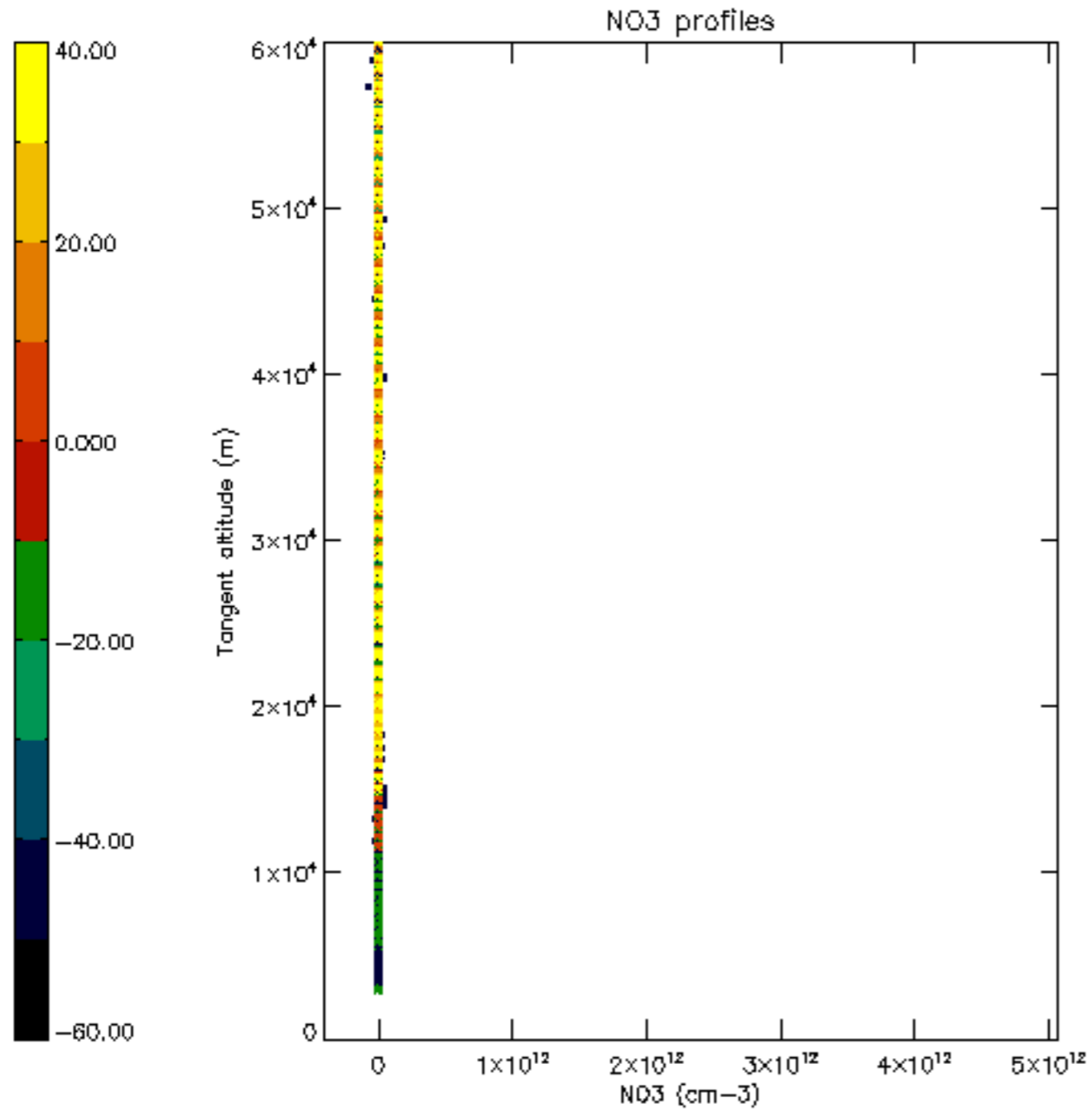


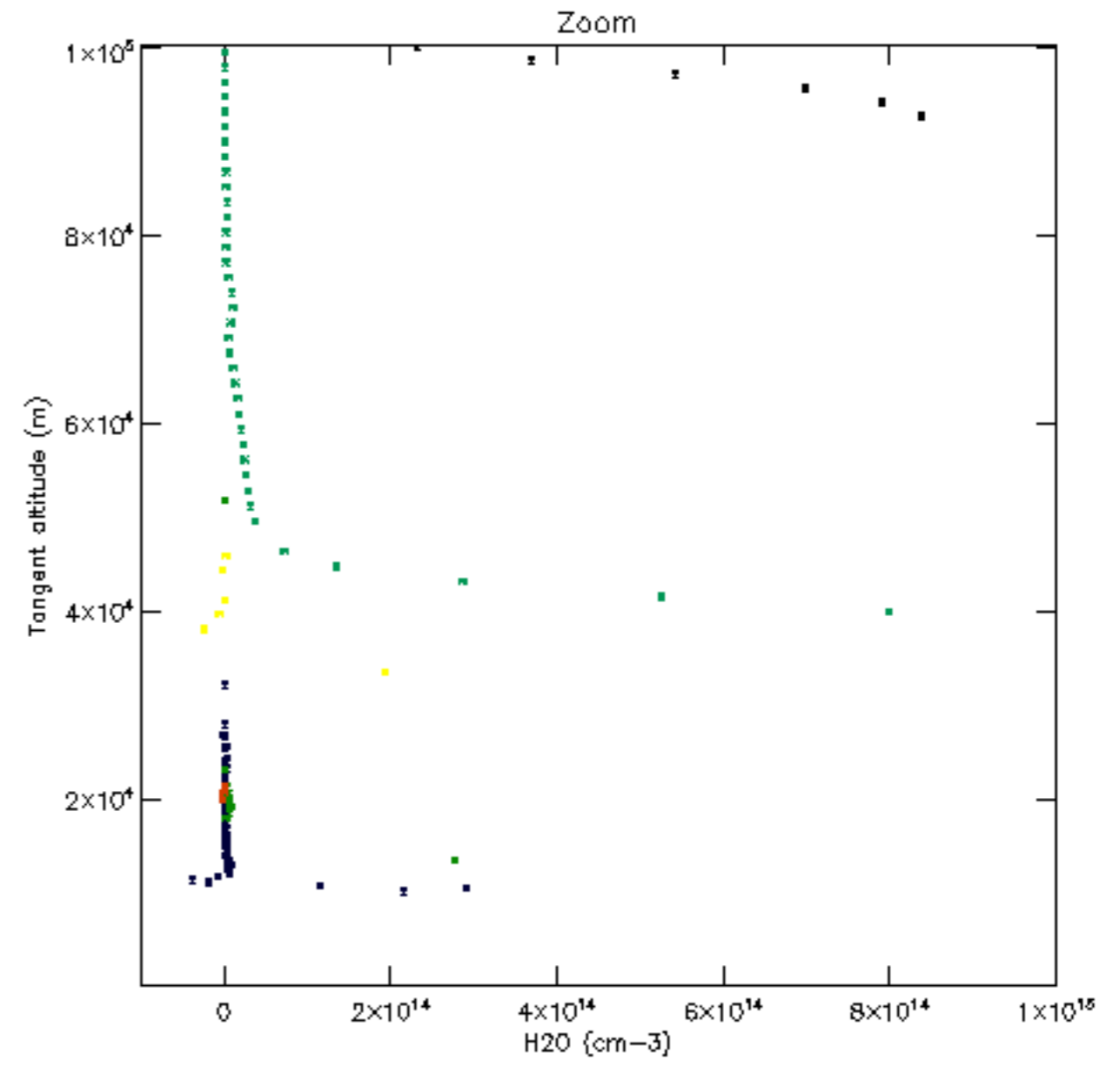
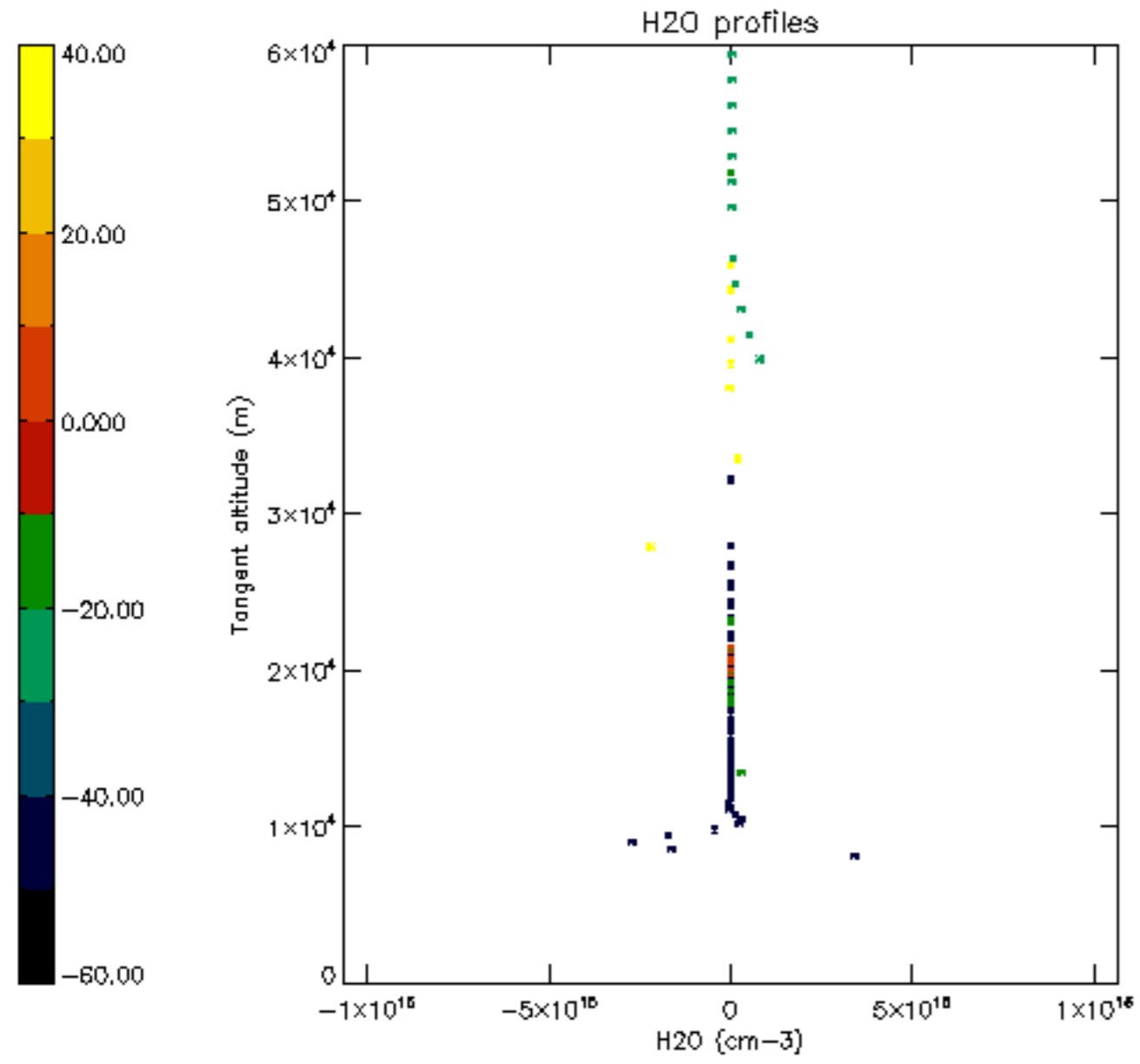


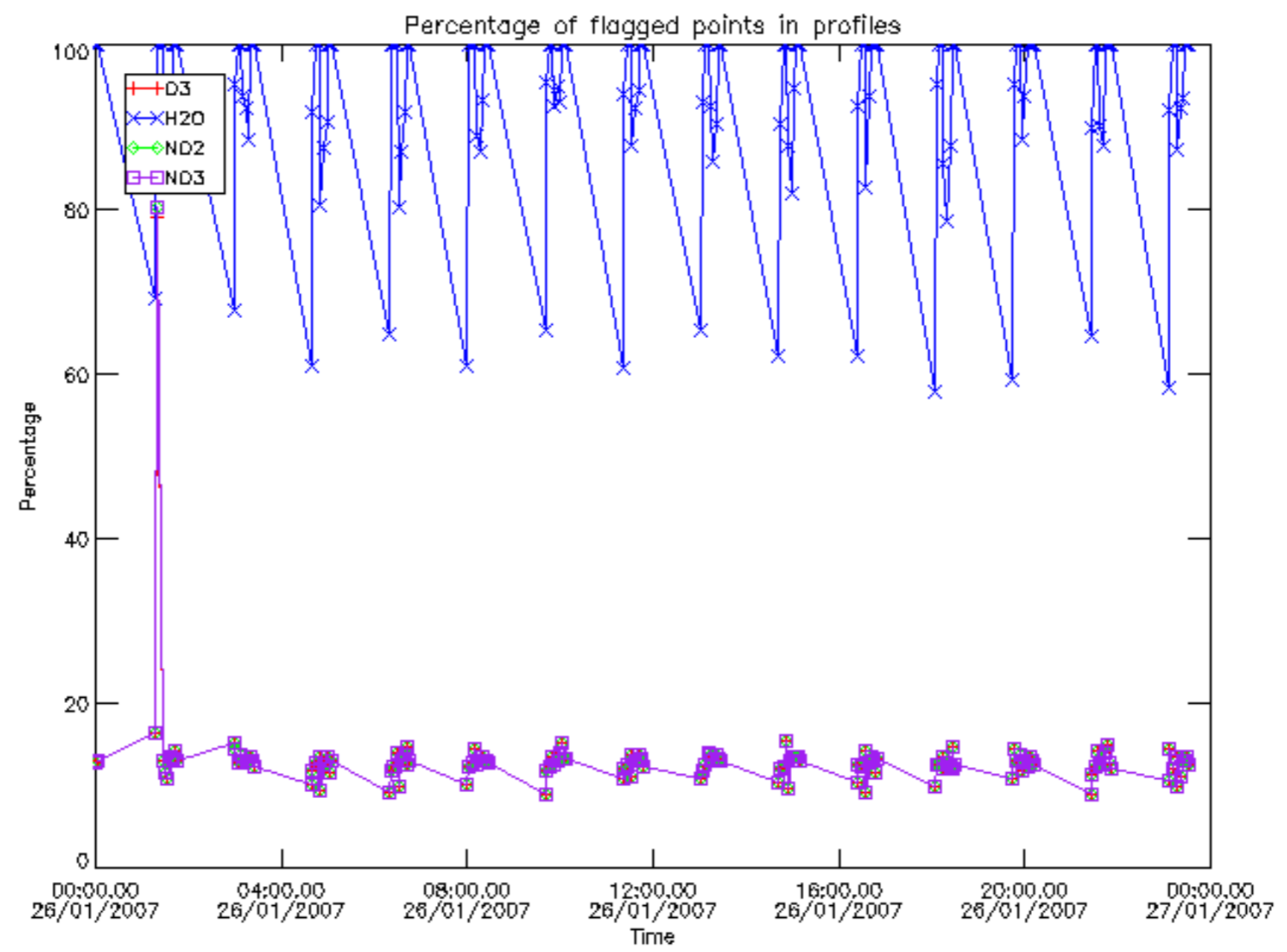






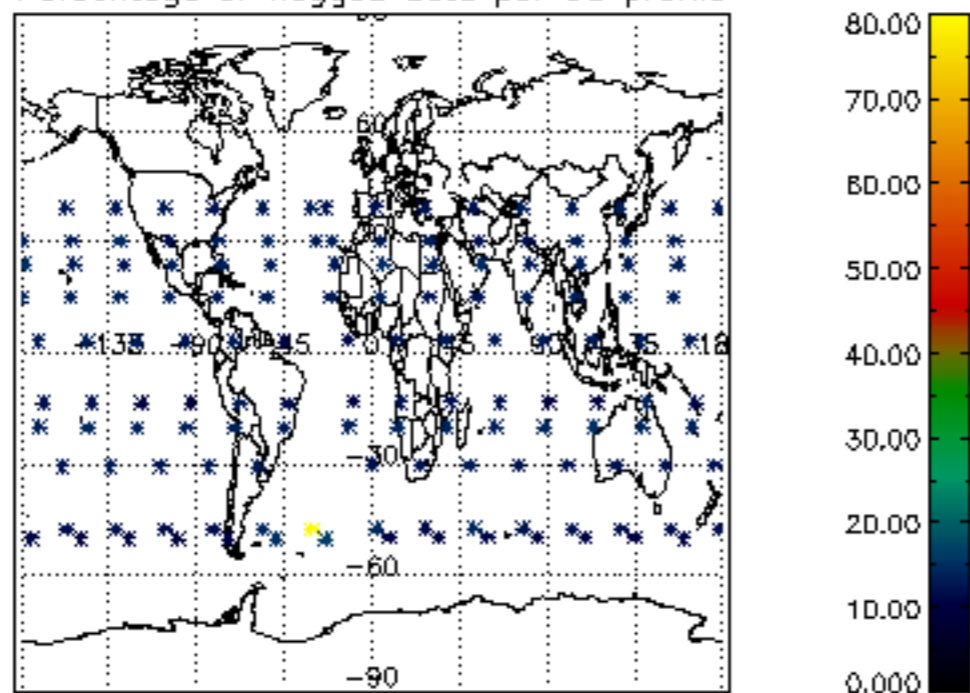




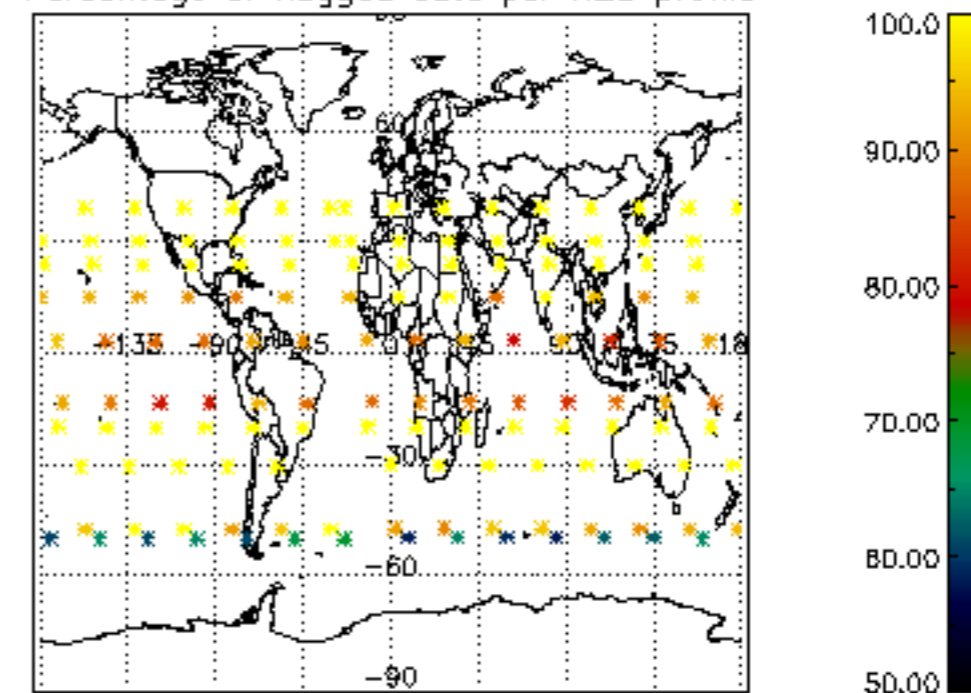




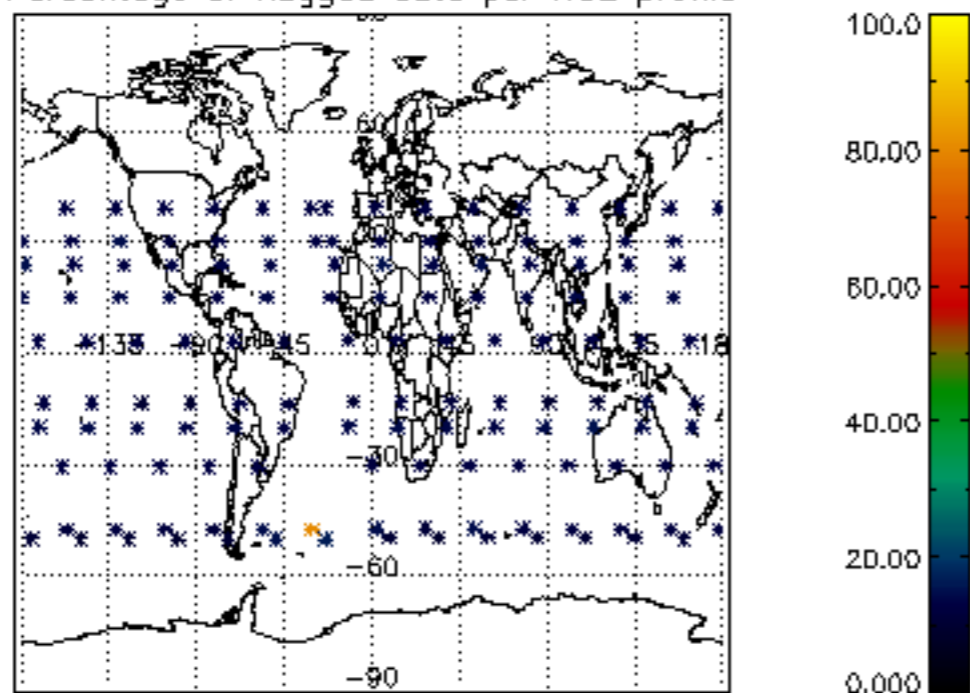
Percentage of flagged data per D3 profile



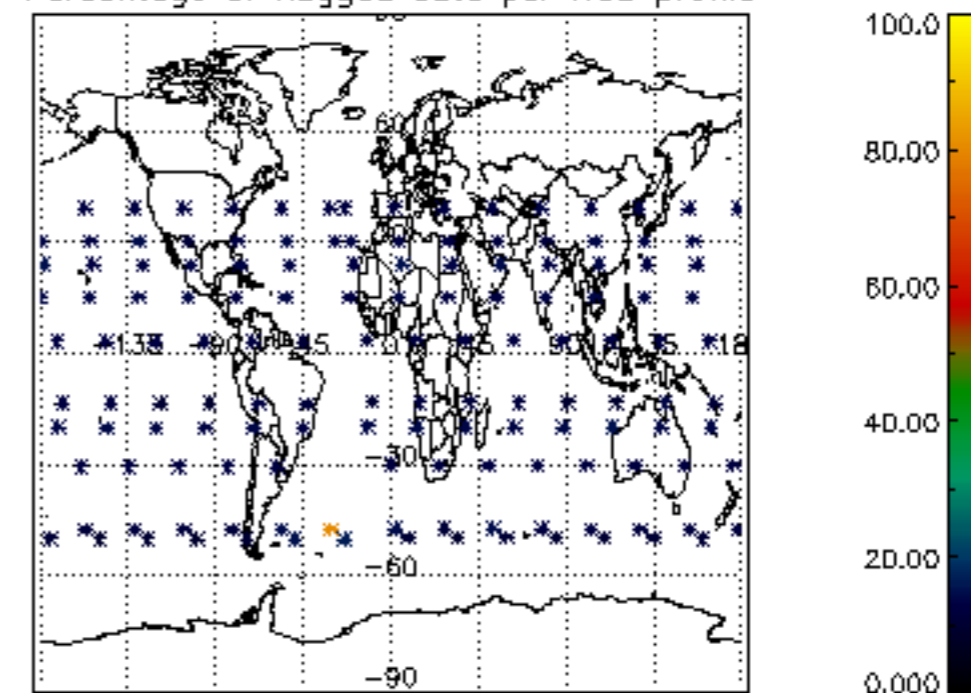
Percentage of flagged data per H2O profile

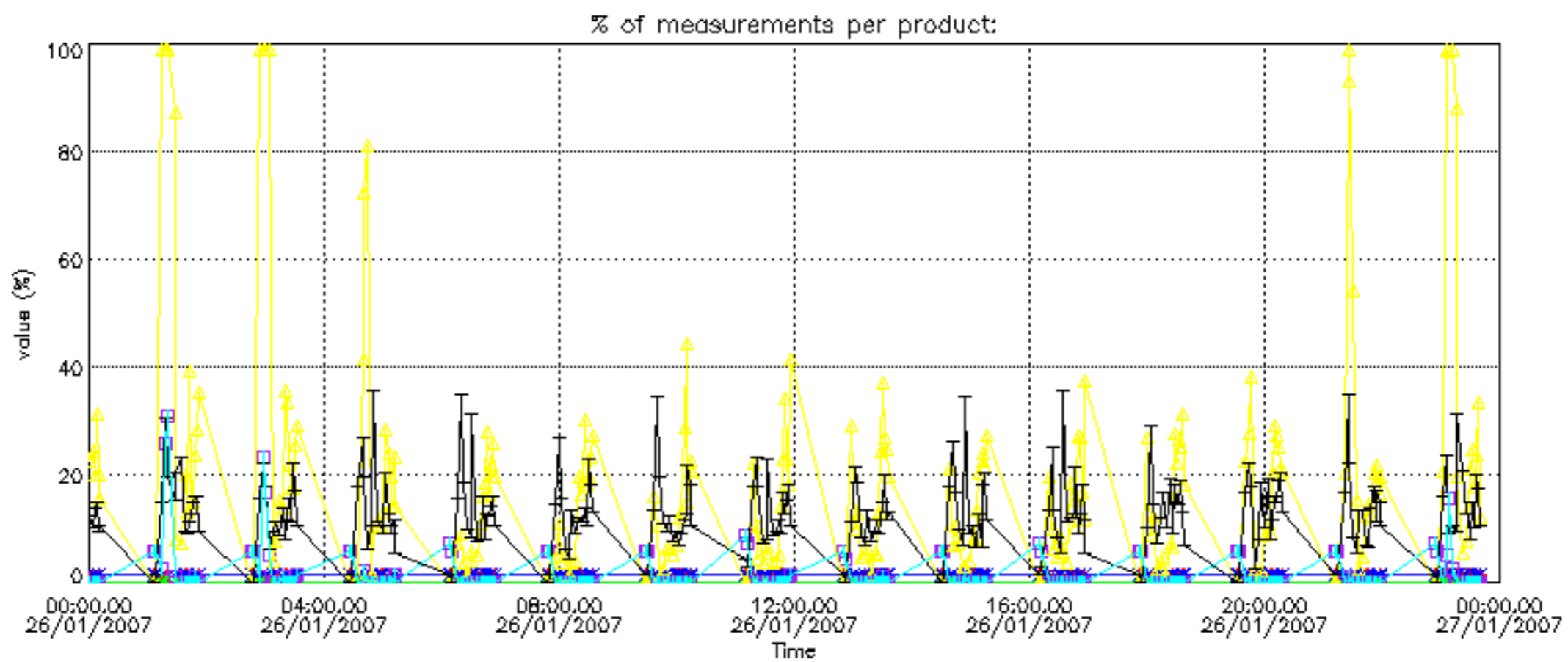


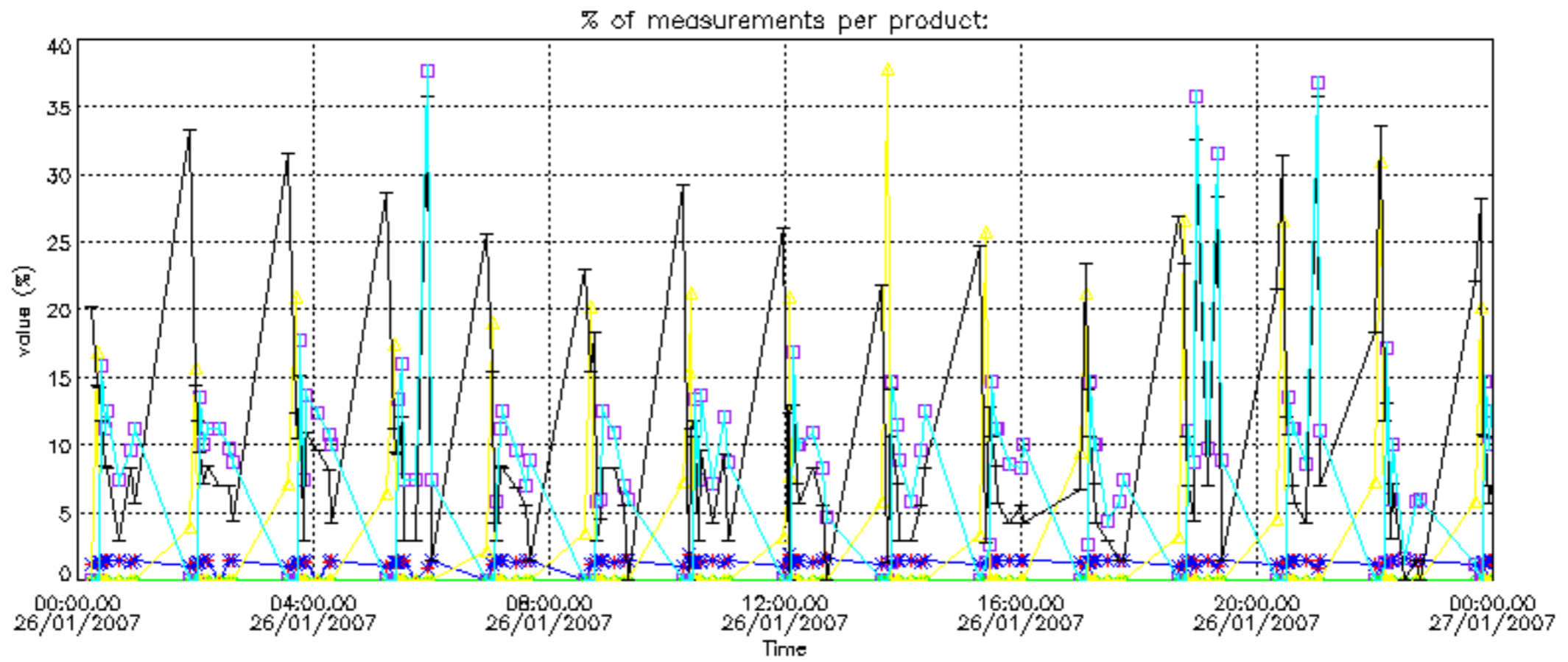
Percentage of flagged data per NO2 profile



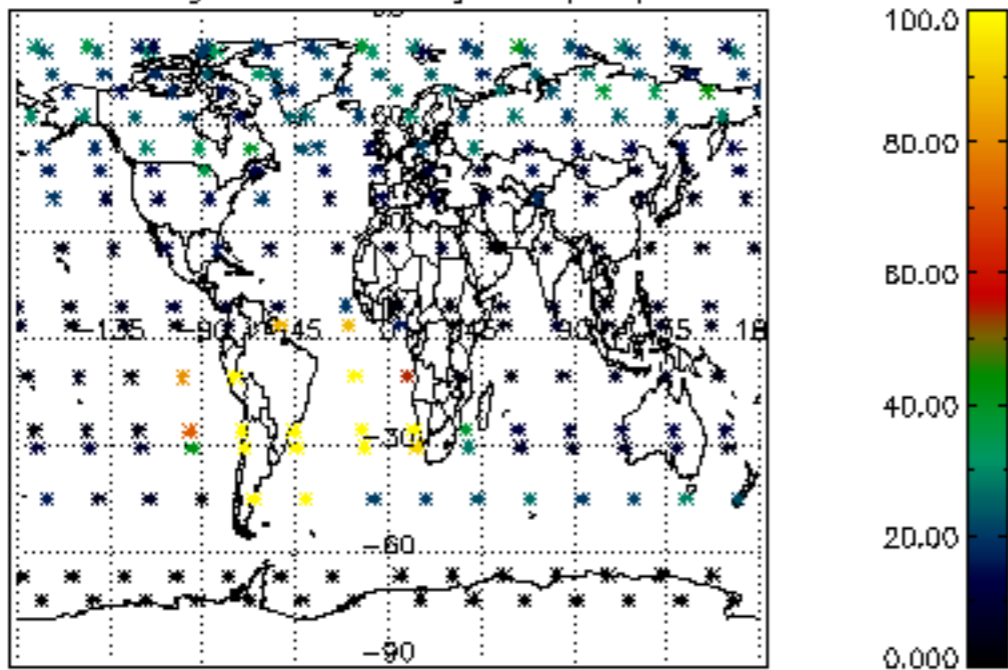
Percentage of flagged data per NO3 profile



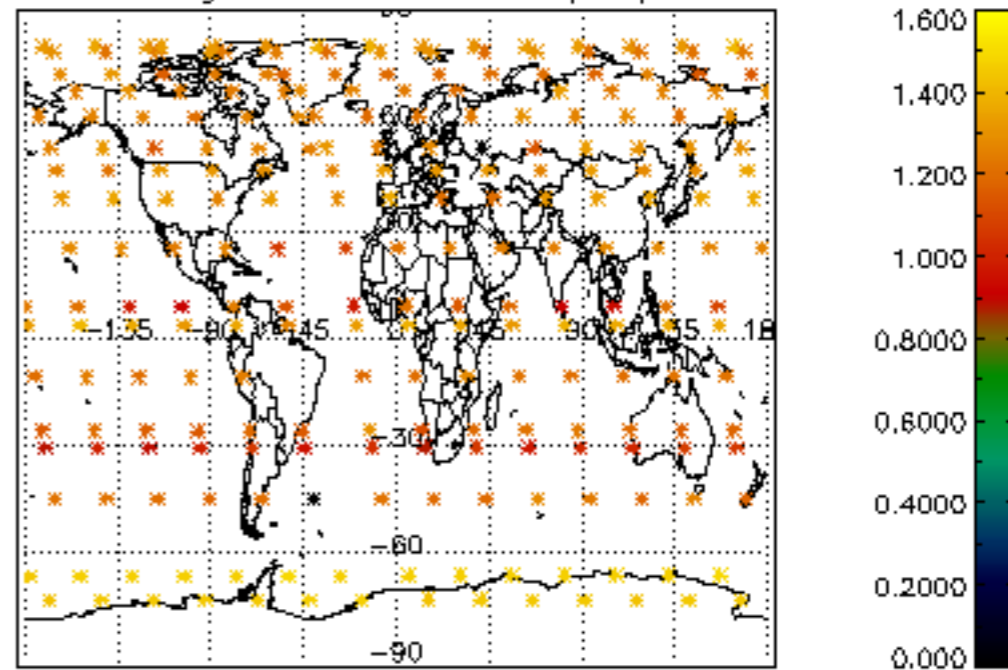




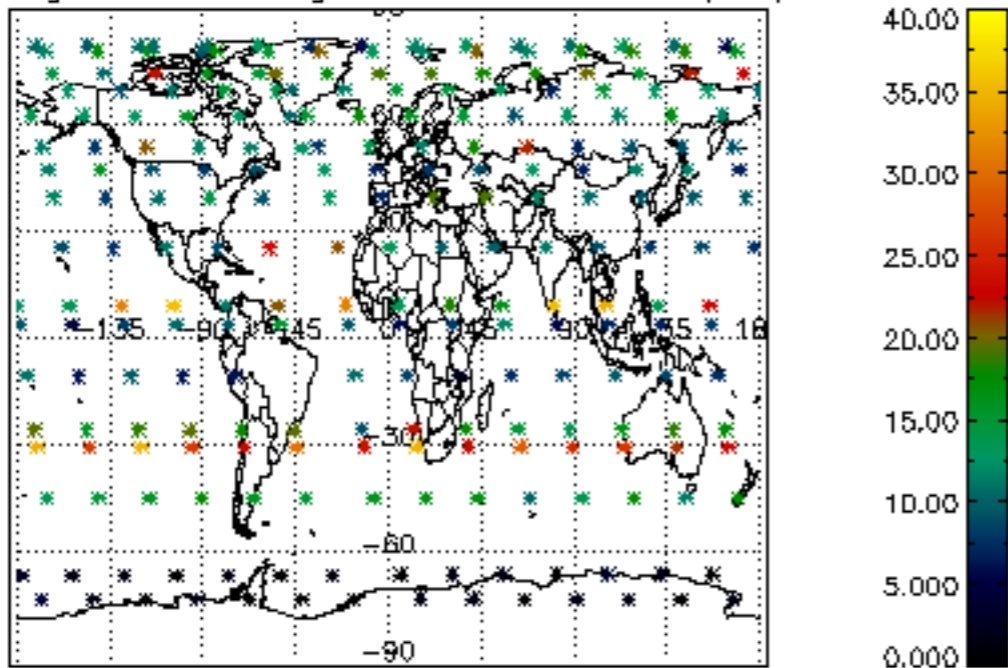
Percentage of cosmic ray hits per profile



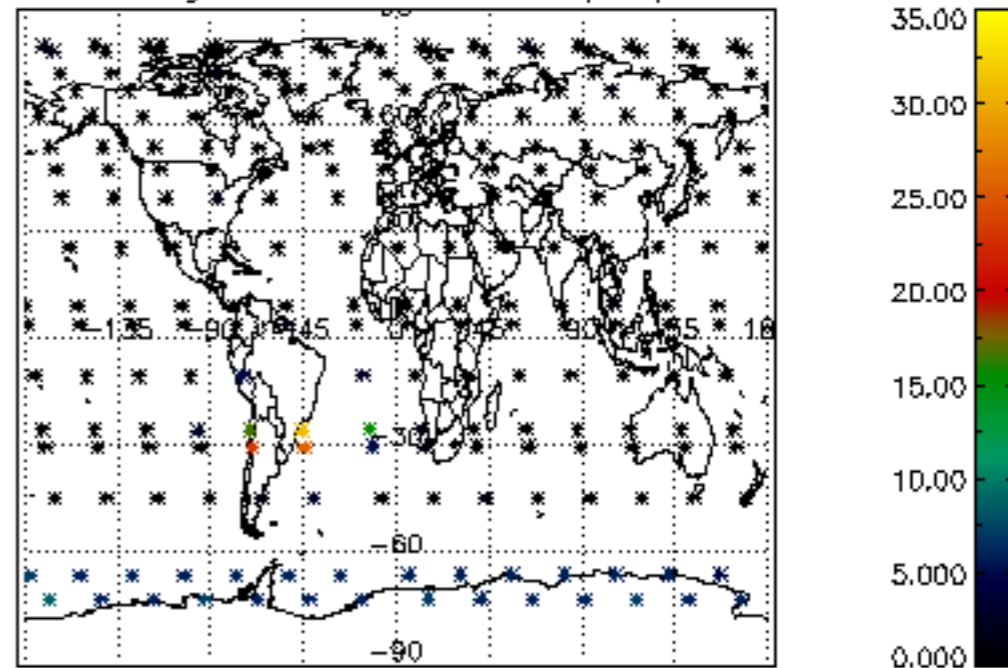
Percentage of datation errors per profile



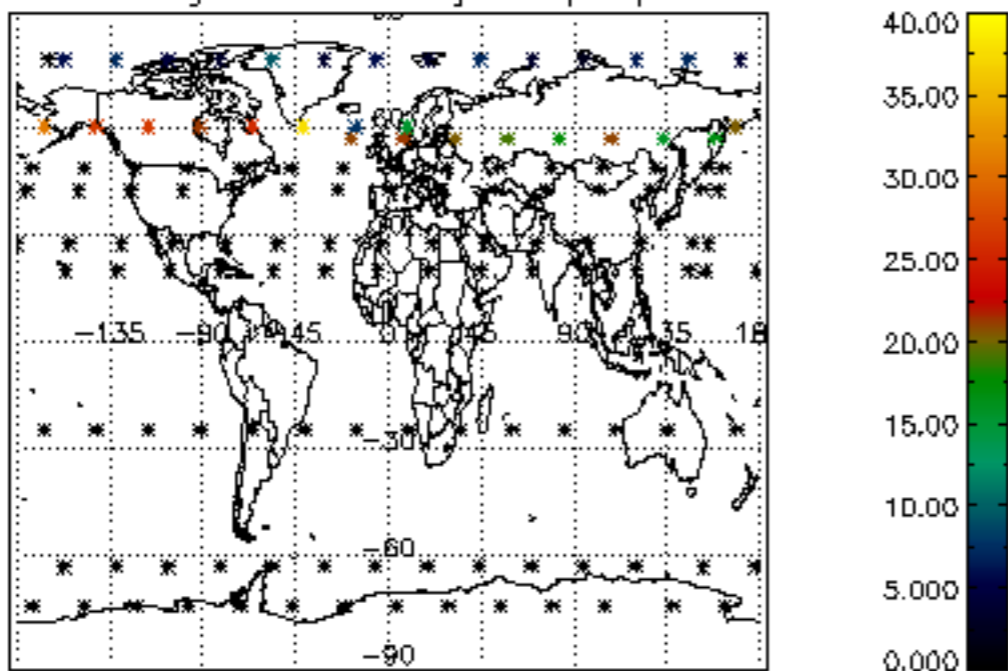
Percentage of star falling outside central band per profile



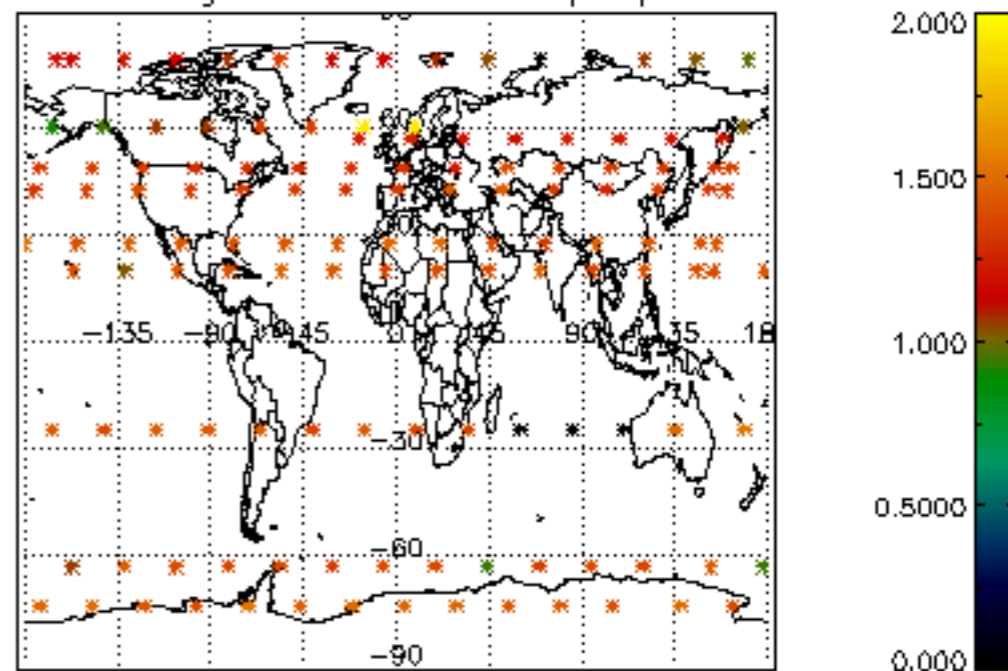
Percentage of saturation errors per profile



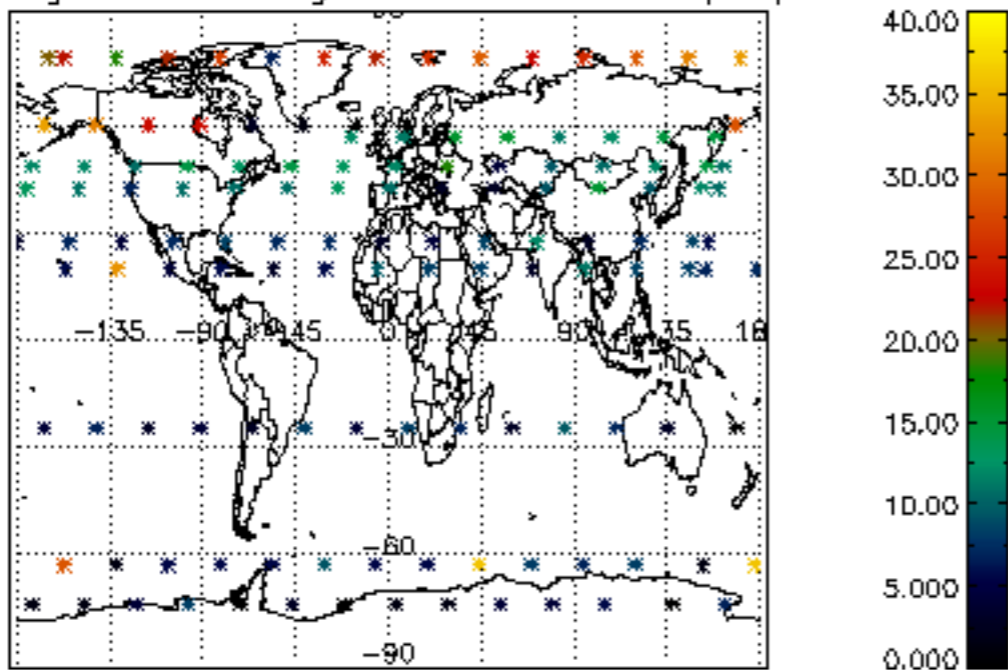
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

