

# 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 12:57:05
Data source version	GOMOS/6.01
Start time of products	25-01-2007 (25JAN2007 00:00:00)
Stop time of products	26-01-2007 (26JAN2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	368
Nb of prods with errors	1

## 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__2PRFIN20070125_000410_00000452055_00030_25635_4220.N1	25-JAN-2007 00:04:10	Dark	45.000	98	13Zet Oph	2.5710	30000.	90	25635	Yes
2	GOM_NL__2PRFIN20070125_000841_000000552055_00030_25635_4221.N1	25-JAN-2007 00:08:41	Twilight	54.500	16	21Alp Sco	1.0200	3000.0	109	25635	No
3	GOM_NL__2PRFIN20070125_001006_000000442055_00030_25635_4222.N1	25-JAN-2007 00:10:06	Dark	44.000	75	26Eps Sco	2.2910	4250.0	88	25635	No
4	GOM_NL__2PRFIN20070125_001746_000000322055_00031_25636_4239.N1	25-JAN-2007 00:17:46	Dark	32.000	78	Alp Lup	2.3040	28000.	64	25636	No
5	GOM_NL__2PRFIN20070125_001949_000000442055_00031_25636_4240.N1	25-JAN-2007 00:19:49	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	25636	No
6	GOM_NL__2PRFIN20070125_002422_000000462055_00031_25636_4241.N1	25-JAN-2007 00:24:22	Dark	45.500	12	Alp1Cru	0.77500	30000.	91	25636	No
7	GOM_NL__2PRFIN20070125_002824_000000382055_00031_25636_4242.N1	25-JAN-2007 00:28:24	Dark	37.500	29	Bet Car	1.6720	10200.	75	25636	No
8	GOM_NL__2PRFIN20070125_003036_000000412055_00031_25636_4243.N1	25-JAN-2007 00:30:36	Dark	40.500	71	lot Car	2.2460	7700.0	81	25636	No
9	GOM_NL__2PRFIN20070125_003224_000000402055_00031_25636_4244.N1	25-JAN-2007 00:32:24	Dark	40.000	46	Del Vel	1.9540	10600.	80	25636	No
10	GOM_NL__2PRFIN20070125_003501_000000412055_00031_25636_4245.N1	25-JAN-2007 00:35:01	Dark	40.500	34	Gam2Vel	1.7930	23000.	81	25636	No
11	GOM_NL__2PRFIN20070125_003707_000000392055_00031_25636_4246.N1	25-JAN-2007 00:37:07	Straylight	38.500	70	Zet Pup	2.2460	39000.	77	25636	No
12	GOM_NL__2PRFIN20070125_003836_000000422055_00031_25636_4247.N1	25-JAN-2007 00:38:36	Straylight	41.500	117	Pi Pup	2.7060	3800.0	83	25636	No
13	GOM_NL__2PRFIN20070125_004104_000000412055_00031_25636_4248.N1	25-JAN-2007 00:41:04	Straylight	40.500	23	21Eps CMa	1.5020	26000.	81	25636	No
14	GOM_NL__2PRFIN20070125_004227_000000382055_00031_25636_4249.N1	25-JAN-2007 00:42:27	Straylight	37.500	179	24Omi2CMa	3.0320	24000.	75	25636	No
15	GOM_NL__2PRFIN20070125_004437_000000452055_00031_25636_4250.N1	25-JAN-2007 00:44:37	Straylight	45.000	1	9Alp CMa	-1.4400	11000.	90	25636	No
16	GOM_NL__2PRFIN20070125_005137_000000412055_00031_25636_4251.N1	25-JAN-2007 00:51:37	Tw_and_stray	40.500	153	3Bet CMI	2.8940	13100.	81	25636	No
17	GOM_NL__2PRFIN20070125_005357_000000382055_00031_25636_4252.N1	25-JAN-2007 00:53:57	Bright	37.500	44	24Gam Gem	1.9280	11000.	75	25636	No
18	GOM_NL__2PRFIN20070125_005544_000000392055_00031_25636_4253.N1	25-JAN-2007 00:55:44	Bright	38.500	151	13Mu Gem	2.8900	3000.0	77	25636	No
19	GOM_NL__2PRFIN20070125_005957_000000352055_00031_25636_4254.N1	25-JAN-2007 00:59:57	Bright	35.000	107	37The Aur	2.6490	11000.	70	25636	No
20	GOM_NL__2PRFIN20070125_010205_000000352055_00031_25636_4255.N1	25-JAN-2007 01:02:05	Bright	35.000	42	34Bet Aur	1.9000	10200.	70	25636	No
21	GOM_NL__2PRFIN20070125_011435_000000342055_00031_25636_4256.N1	25-JAN-2007 01:14:35	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	25636	No
22	GOM_NL__2PRFIN20070125_012534_000000362055_00031_25636_4257.N1	25-JAN-2007 01:25:34	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	25636	No
23	GOM_NL__2PRFIN20070125_012858_000000352055_00031_25636_4258.N1	25-JAN-2007 01:28:58	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	25636	No
24	GOM_NL__2PRFIN20070125_013659_000000352055_00031_25636_4259.N1	25-JAN-2007 01:36:59	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	25636	No
25	GOM_NL__2PRFIN20070125_013906_000000342055_00031_25636_4260.N1	25-JAN-2007 01:39:06	Bright	33.500	126	60Bet Oph	2.7700	4250.0	67	25636	No
26	GOM_NL__2PRFIN20070125_014446_000000462055_00031_25636_4261.N1	25-JAN-2007 01:44:46	Tw_and_stray	45.500	98	13Zet Oph	2.5710	30000.	91	25636	No
27	GOM_NL__2PRFIN20070125_014917_000000552055_00031_25636_4262.N1	25-JAN-2007 01:49:17	Twilight	55.000	16	21Alp Sco	1.0200	3000.0	110	25636	No
28	GOM_NL__2PRFIN20070125_015043_000000442055_00031_25636_4263.N1	25-JAN-2007 01:50:43	Dark	43.500	75	26Eps Sco	2.2910	4250.0	87	25636	No
29	GOM_NL__2PRFIN20070125_015451_000000412055_00031_25636_4264.N1	25-JAN-2007 01:54:51	Dark	41.000	131	Gam Lup	2.8000	26000.	82	25636	No
30	GOM_NL__2PRFIN20070125_015822_000000272055_00032_25637_4268.N1	25-JAN-2007 01:58:22	Dark	27.000	78	Alp Lup	2.3040	28000.	54	25637	No
31	GOM_NL__2PRFIN20070125_020025_000000422055_00032_25637_4269.N1	25-JAN-2007 02:00:25	Dark	41.500	4	Alp1Cen	-0.010000	5800.0	83	25637	No
32	GOM_NL__2PRFIN20070125_020459_000000402055_00032_25637_4270.N1	25-JAN-2007 02:04:59	Dark	39.500	12	Alp1Cru	0.77500	30000.	79	25637	No
33	GOM_NL__2PRFIN20070125_020901_000000392055_00032_25637_4271.N1	25-JAN-2007 02:09:01	Dark	38.500	29	Bet Car	1.6720	10200.	77	25637	No
34	GOM_NL__2PRFIN20070125_021112_000000382055_00032_25637_4272.N1	25-JAN-2007 02:11:12	Dark	38.000	71	lot Car	2.2460	7700.0	76	25637	No
35	GOM_NL__2PRFIN20070125_021300_000000402055_00032_25637_4273.N1	25-JAN-2007 02:13:00	Dark	39.500	46	Del Vel	1.9540	10600.	79	25637	No
36	GOM_NL__2PRFIN20070125_021537_000000412055_00032_25637_4274.N1	25-JAN-2007 02:15:37	Dark	41.000	34	Gam2Vel	1.7930	23000.	82	25637	No
37	GOM_NL__2PRFIN20070125_021743_000000412055_00032_25637_4275.N1	25-JAN-2007 02:17:43	Straylight	41.000	70	Zet Pup	2.2460	39000.	82	25637	No
38	GOM_NL__2PRFIN20070125_021912_000000442055_00032_25637_4276.N1	25-JAN-2007 02:19:12	Straylight	43.500	117	Pi Pup	2.7060	3800.0	87	25637	No
39	GOM_NL__2PRFIN20070125_022140_000000432055_00032_25637_4277.N1	25-JAN-2007 02:21:40	Straylight	42.500	23	21Eps CMa	1.5020	26000.	85	25637	No
40	GOM_NL__2PRFIN20070125_022304_000000372055_00032_25637_4278.N1	25-JAN-2007 02:23:04	Straylight	36.500	179	24Omi2CMa	3.0320	24000.	73	25637	No
41	GOM_NL__2PRFIN20070125_022513_000000432055_00032_25637_4279.N1	25-JAN-2007 02:25:13	Straylight	42.500	1	9Alp CMa	-1.4400	11000.	85	25637	No
42	GOM_NL__2PRFIN20070125_023213_000000402055_00032_25637_4280.N1	25-JAN-2007 02:32:13	Tw_and_stray	40.000	153	3Bet CMI	2.8940	13100.	80	25637	No











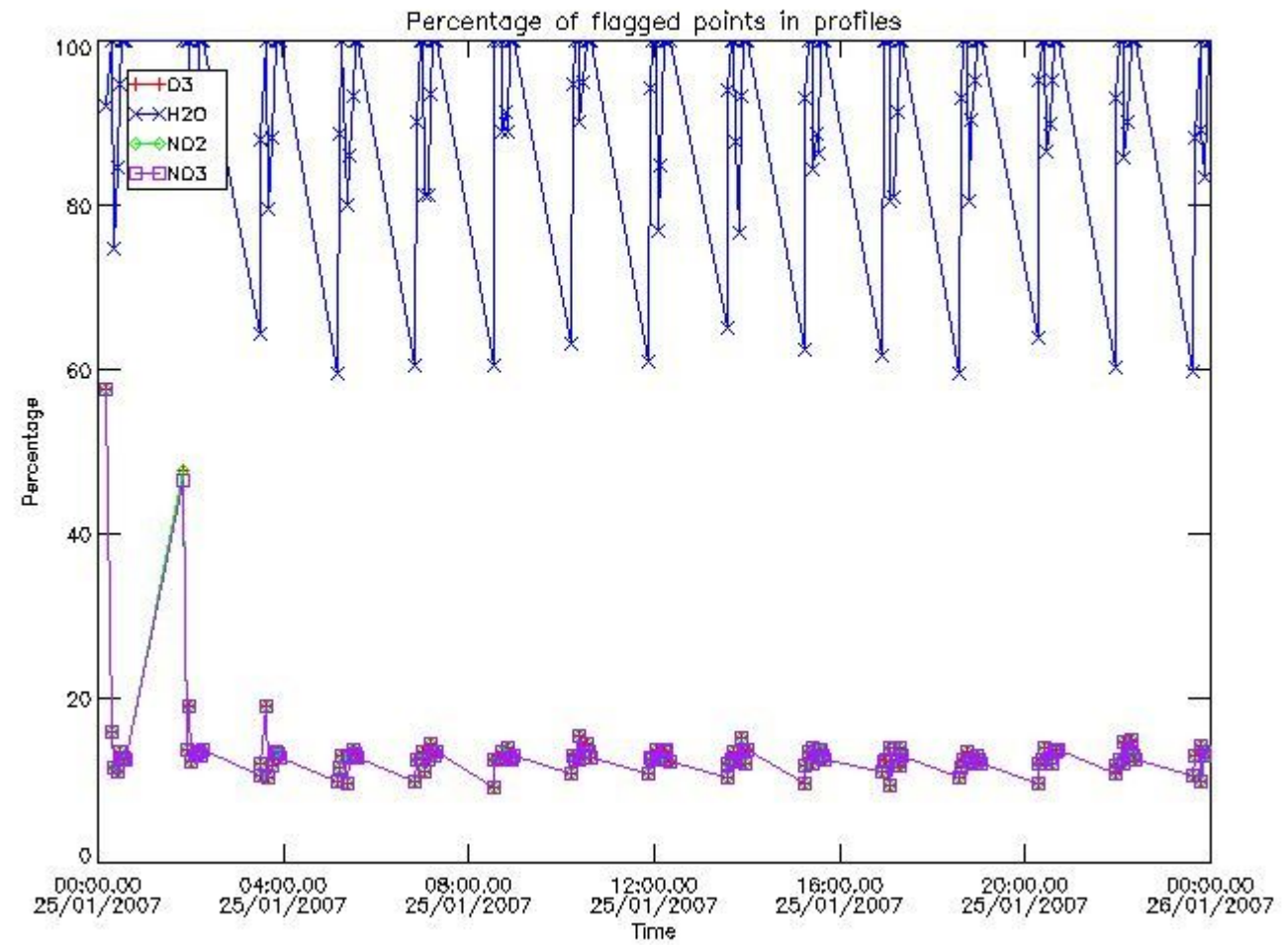
338	GOM_NL__2PRFIN20070125_220212_000000412055_00043_25648_4464.N1	25-JAN-2007 22:02:12	Dark	40.500	131	Gam Lup	2.8000	26000.	81	25648	No
339	GOM_NL__2PRFIN20070125_220616_000000382055_00044_25649_4447.N1	25-JAN-2007 22:06:16	Dark	38.000	134	Bet TrA	2.8100	6600.0	76	25649	No
340	GOM_NL__2PRFIN20070125_220743_000000432055_00044_25649_4448.N1	25-JAN-2007 22:07:43	Dark	42.500	4	Alp1Cen	-0.010000	5800.0	85	25649	No
341	GOM_NL__2PRFIN20070125_221217_000000412055_00044_25649_4449.N1	25-JAN-2007 22:12:17	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	25649	No
342	GOM_NL__2PRFIN20070125_221615_000000372055_00044_25649_4450.N1	25-JAN-2007 22:16:15	Dark	36.500	29	Bet Car	1.6720	10200.	73	25649	No
343	GOM_NL__2PRFIN20070125_221828_000000382055_00044_25649_4451.N1	25-JAN-2007 22:18:28	Dark	37.500	71	lot Car	2.2460	7700.0	75	25649	No
344	GOM_NL__2PRFIN20070125_222016_000000392055_00044_25649_4452.N1	25-JAN-2007 22:20:16	Dark	39.000	46	Del Vel	1.9540	10600.	78	25649	No
345	GOM_NL__2PRFIN20070125_222252_000000412055_00044_25649_4453.N1	25-JAN-2007 22:22:52	Dark	40.500	34	Gam2Vel	1.7930	23000.	81	25649	No
346	GOM_NL__2PRFIN20070125_222458_000000392055_00044_25649_4454.N1	25-JAN-2007 22:24:58	Straylight	39.000	70	Zet Pup	2.2460	39000.	78	25649	No
347	GOM_NL__2PRFIN20070125_222626_000000412055_00044_25649_4455.N1	25-JAN-2007 22:26:26	Straylight	41.000	117	Pi Pup	2.7060	3800.0	82	25649	No
348	GOM_NL__2PRFIN20070125_222854_000000402055_00044_25649_4456.N1	25-JAN-2007 22:28:54	Straylight	40.000	23	21Eps CMa	1.5020	26000.	80	25649	No
349	GOM_NL__2PRFIN20070125_223017_000000372055_00044_25649_4457.N1	25-JAN-2007 22:30:17	Straylight	37.000	179	24Omi2CMa	3.0320	24000.	74	25649	No
350	GOM_NL__2PRFIN20070125_223227_000000462055_00044_25649_4458.N1	25-JAN-2007 22:32:27	Straylight	45.500	1	9Alp CMa	-1.4400	11000.	91	25649	No
351	GOM_NL__2PRFIN20070125_223924_000000402055_00044_25649_4459.N1	25-JAN-2007 22:39:24	Twilight_stray	40.000	153	3Bet CMi	2.8940	13100.	80	25649	No
352	GOM_NL__2PRFIN20070125_224145_000000382055_00044_25649_4460.N1	25-JAN-2007 22:41:45	Bright	37.500	44	24Gam Gem	1.9280	11000.	75	25649	No
353	GOM_NL__2PRFIN20070125_224332_000000382055_00044_25649_4461.N1	25-JAN-2007 22:43:32	Bright	37.500	151	13Mu Gem	2.8900	3000.0	75	25649	No
354	GOM_NL__2PRFIN20070125_224747_000000352055_00044_25649_4462.N1	25-JAN-2007 22:47:47	Bright	35.000	107	37The Aur	2.6490	11000.	70	25649	No
355	GOM_NL__2PRFIN20070125_224954_000000362055_00044_25649_4463.N1	25-JAN-2007 22:49:54	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	25649	No
356	GOM_NL__2PRFIN20070125_230222_000000352055_00044_25649_4464.N1	25-JAN-2007 23:02:22	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	25649	No
357	GOM_NL__2PRFIN20070125_231322_000000362055_00044_25649_4465.N1	25-JAN-2007 23:13:22	Bright	35.500	130	23Bet Dra	2.7990	5800.0	71	25649	No
358	GOM_NL__2PRFIN20070125_231647_000000332055_00044_25649_4466.N1	25-JAN-2007 23:16:47	Bright	33.000	5	3Alp Lyr	0.033000	11000.	66	25649	No
359	GOM_NL__2PRFIN20070125_232449_000000352055_00044_25649_4467.N1	25-JAN-2007 23:24:49	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	25649	No
360	GOM_NL__2PRFIN20070125_232656_000000342055_00044_25649_4468.N1	25-JAN-2007 23:26:56	Bright	34.000	126	60Bet Oph	2.7700	4250.0	68	25649	No
361	GOM_NL__2PRFIN20070125_233310_000000422055_00044_25649_4469.N1	25-JAN-2007 23:33:10	Bright	41.500	86	35Eta Oph	2.4300	10200.	83	25649	No
362	GOM_NL__2PRFIN20070125_233712_000000532055_00044_25649_4470.N1	25-JAN-2007 23:37:12	Dark	52.500	16	21Alp Sco	1.0200	3000.0	105	25649	No
363	GOM_NL__2PRFIN20070125_233836_000000432055_00044_25649_4471.N1	25-JAN-2007 23:38:36	Dark	43.000	75	26Eps Sco	2.2910	4250.0	86	25649	No
364	GOM_NL__2PRFIN20070125_234652_000000362055_00045_25650_4568.N1	25-JAN-2007 23:46:52	Dark	36.000	134	Bet TrA	2.8100	6600.0	72	25650	No
365	GOM_NL__2PRFIN20070125_234819_000000522055_00045_25650_4569.N1	25-JAN-2007 23:48:19	Dark	51.500	4	Alp1Cen	-0.010000	5800.0	103	25650	No
366	GOM_NL__2PRFIN20070125_235253_000000402055_00045_25650_4570.N1	25-JAN-2007 23:52:53	Dark	39.500	12	Alp1Cru	0.77500	30000.	79	25650	No
367	GOM_NL__2PRFIN20070125_235651_000000382055_00045_25650_4571.N1	25-JAN-2007 23:56:51	Dark	37.500	29	Bet Car	1.6720	10200.	75	25650	No
368	GOM_NL__2PRFIN20070125_235904_000000392055_00045_25650_4572.N1	25-JAN-2007 23:59:04	Dark	39.000	71	lot Car	2.2460	7700.0	78	25650	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.

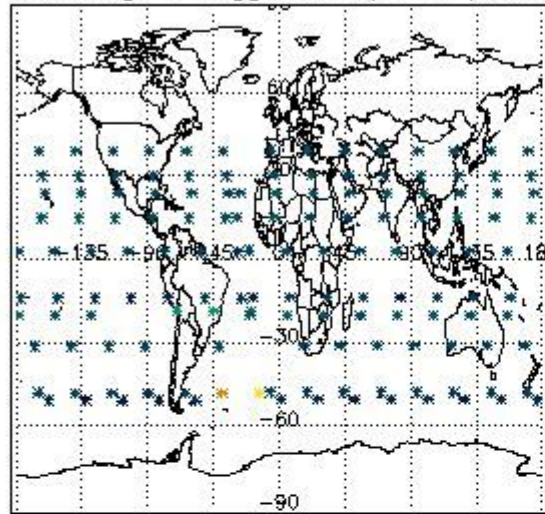
#### 3.1 Plot quality information per product (time dependant)



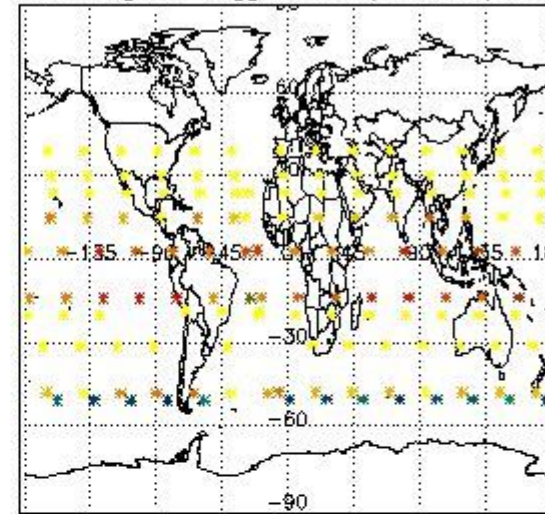


3.2 Plot quality information per product (world map)

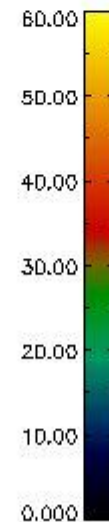
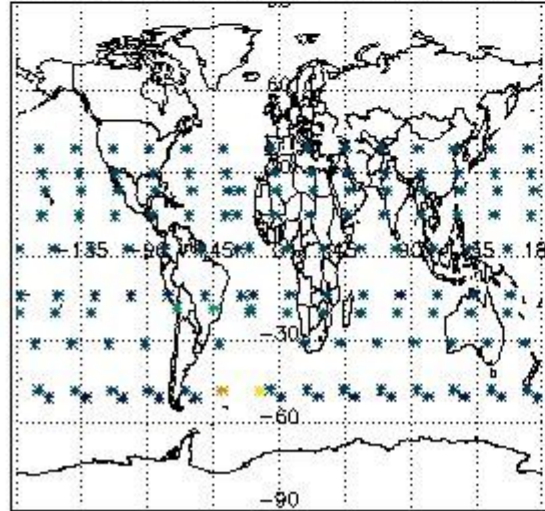
Percentage of flagged data per O3 profile



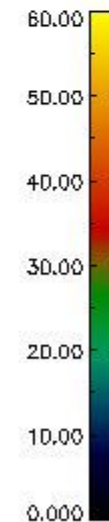
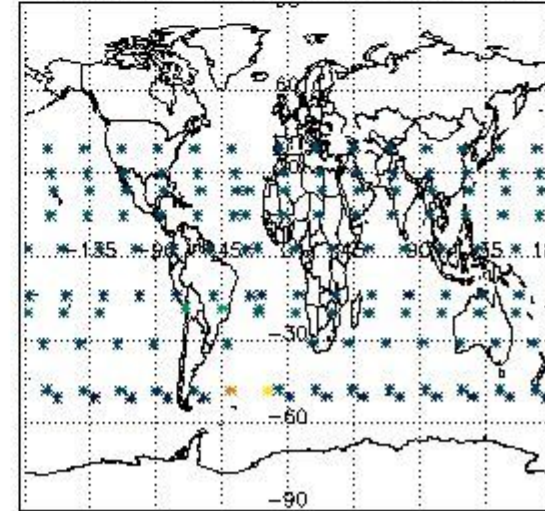
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

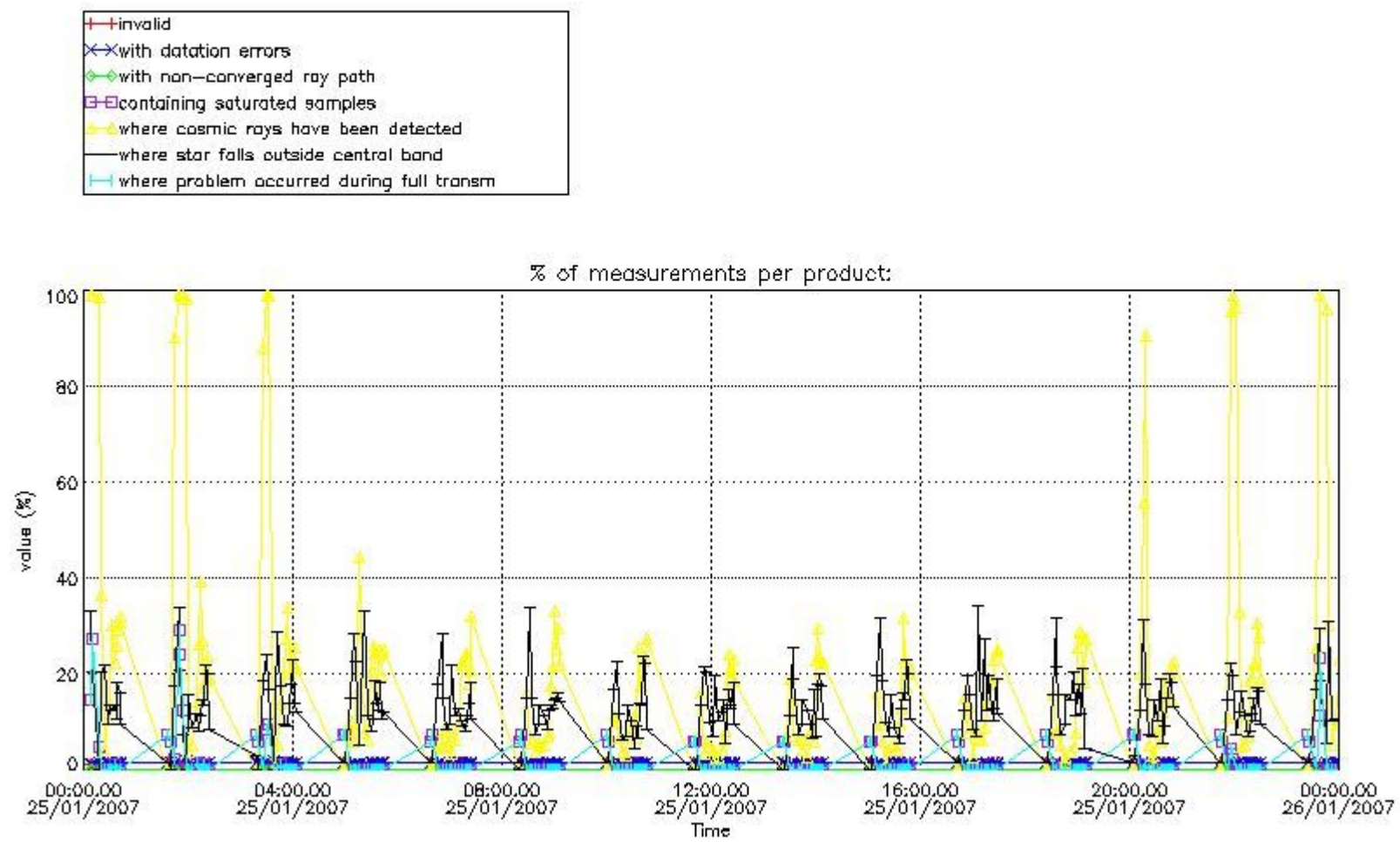


#### 4. Level 1 quality information per product

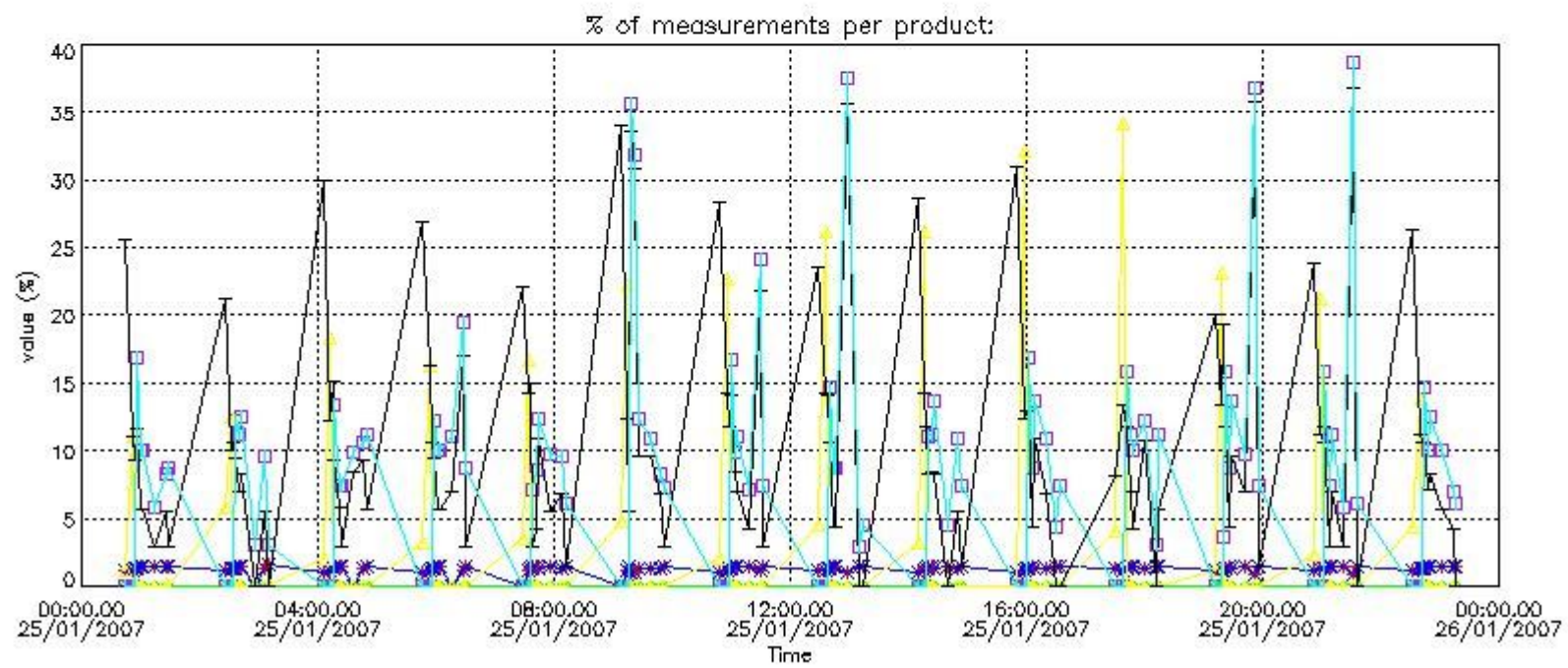
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



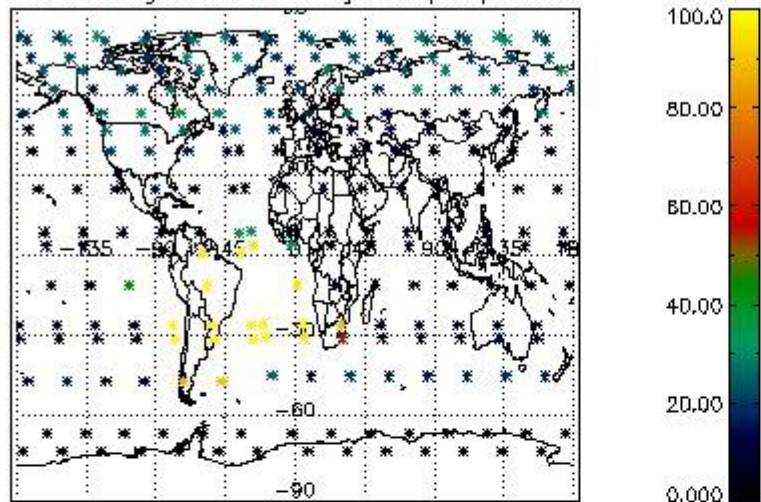
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



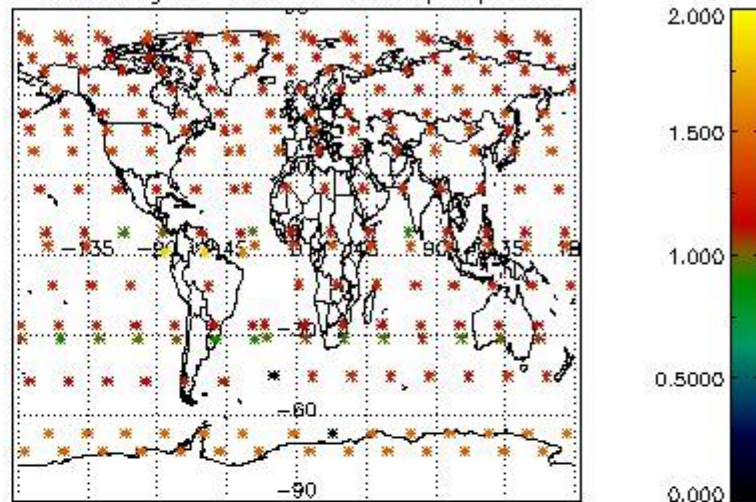
*4.2 Plot quality information per product coming from level 1b processing (world map)*

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

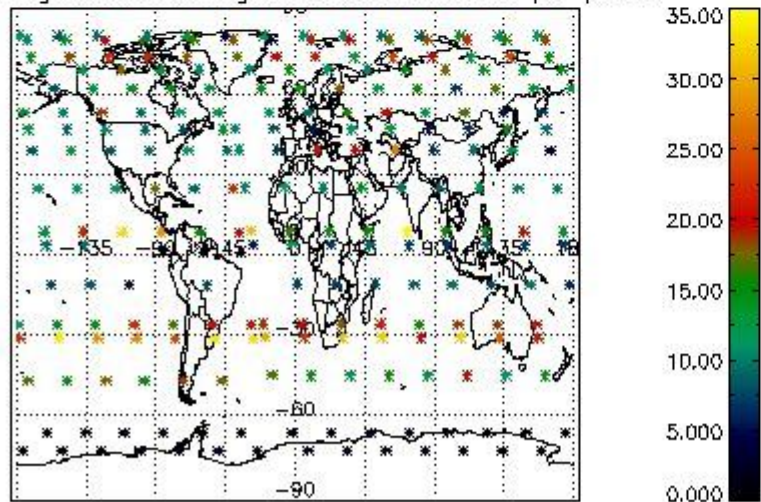
Percentage of cosmic ray hits per profile



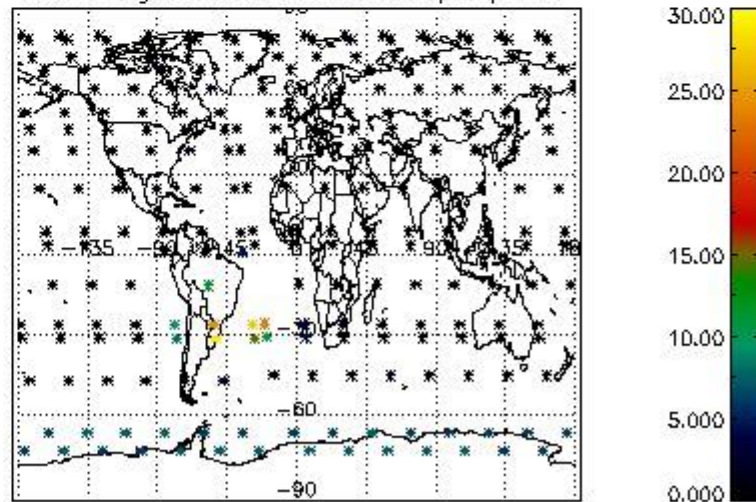
Percentage of datation errors per profile



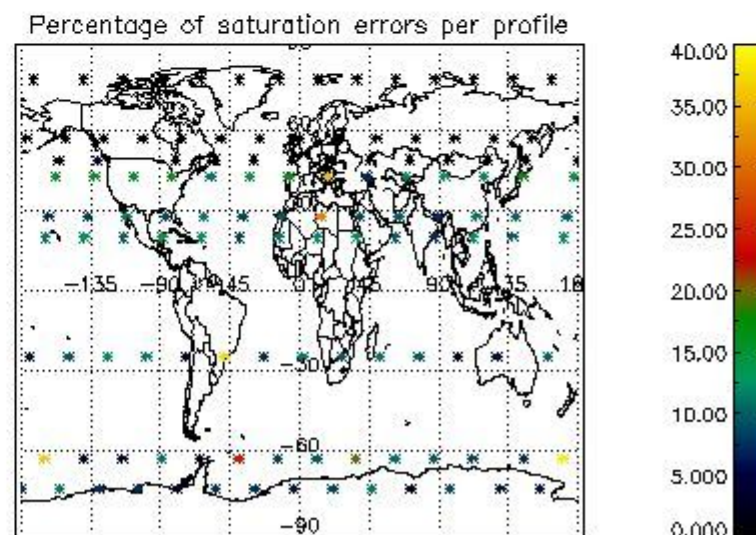
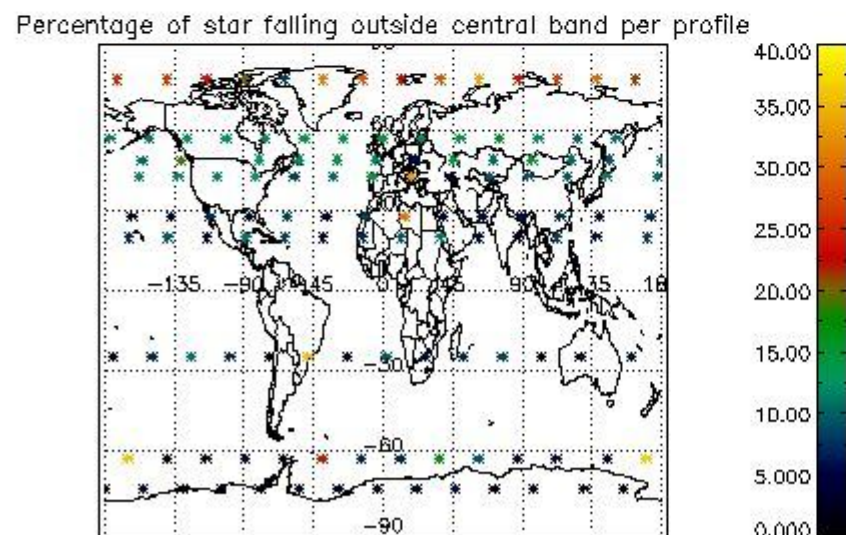
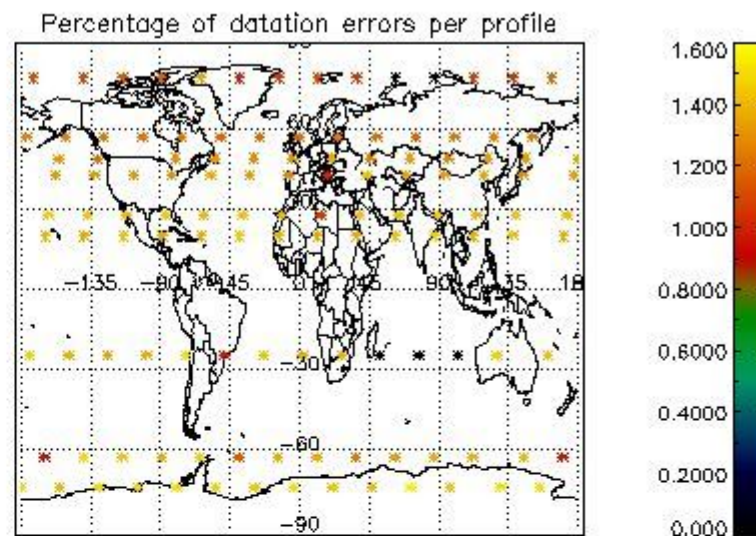
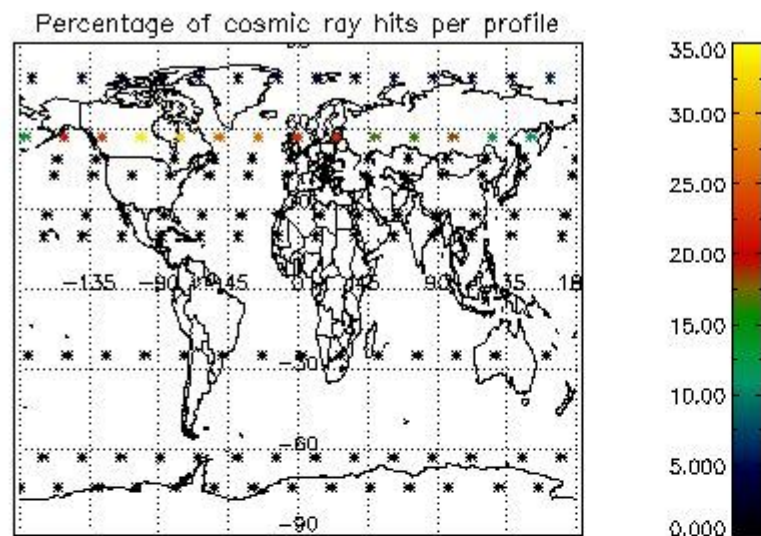
Percentage of star falling outside central band per profile



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

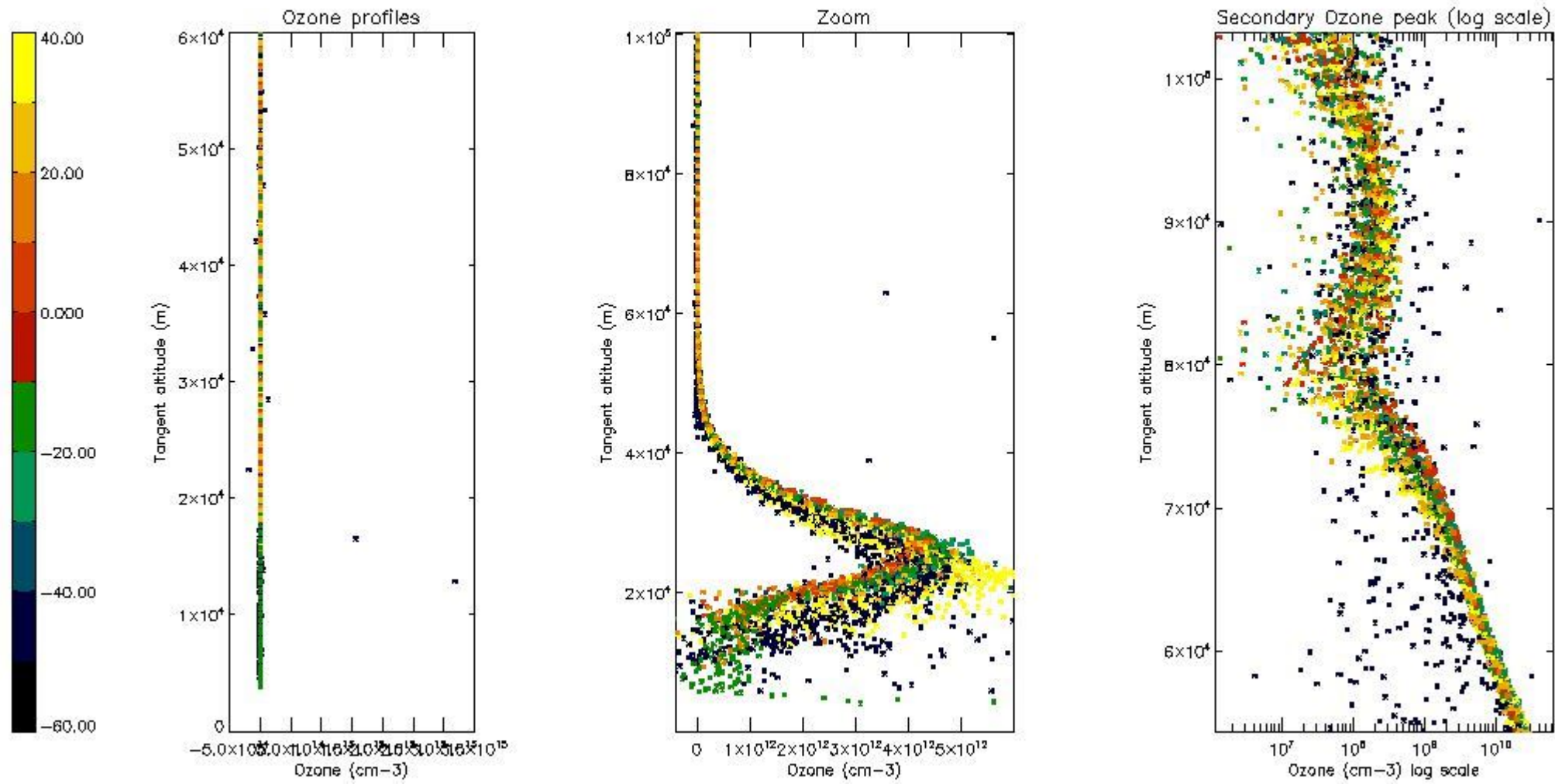
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	41
STD < 20	23

STD < 10	18
STD < 5	11

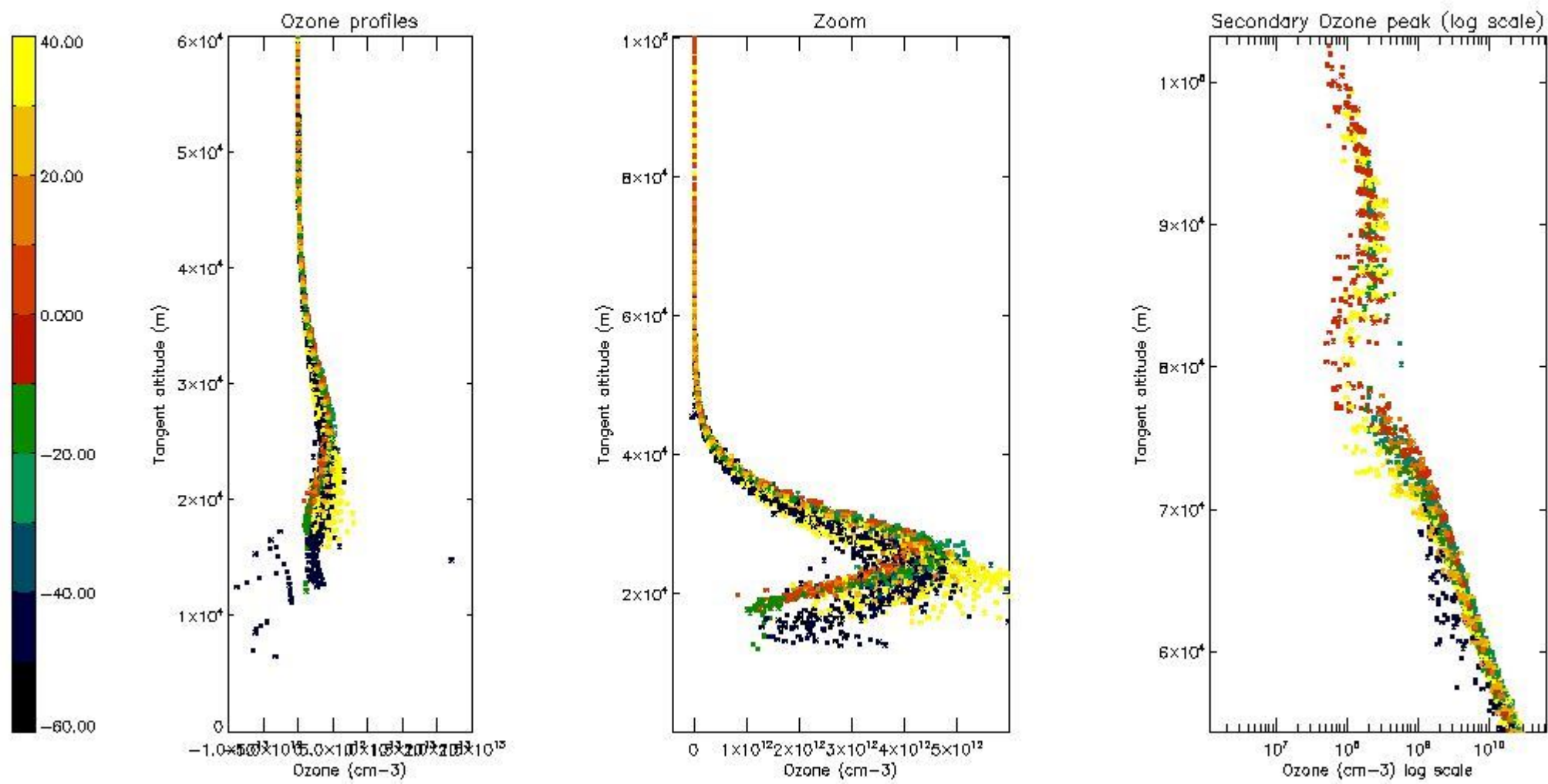
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

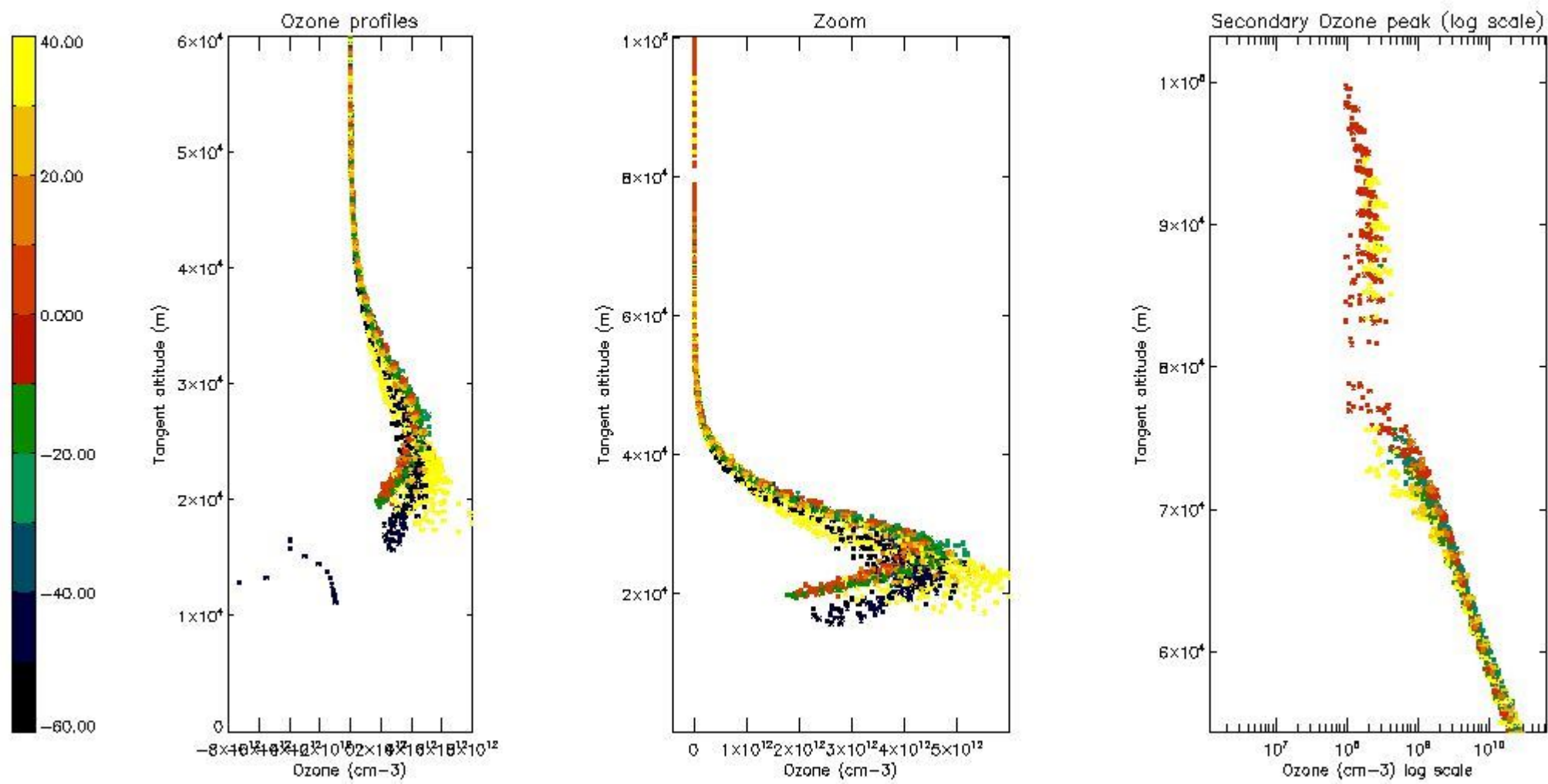
The colorbar represents the latitude.



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

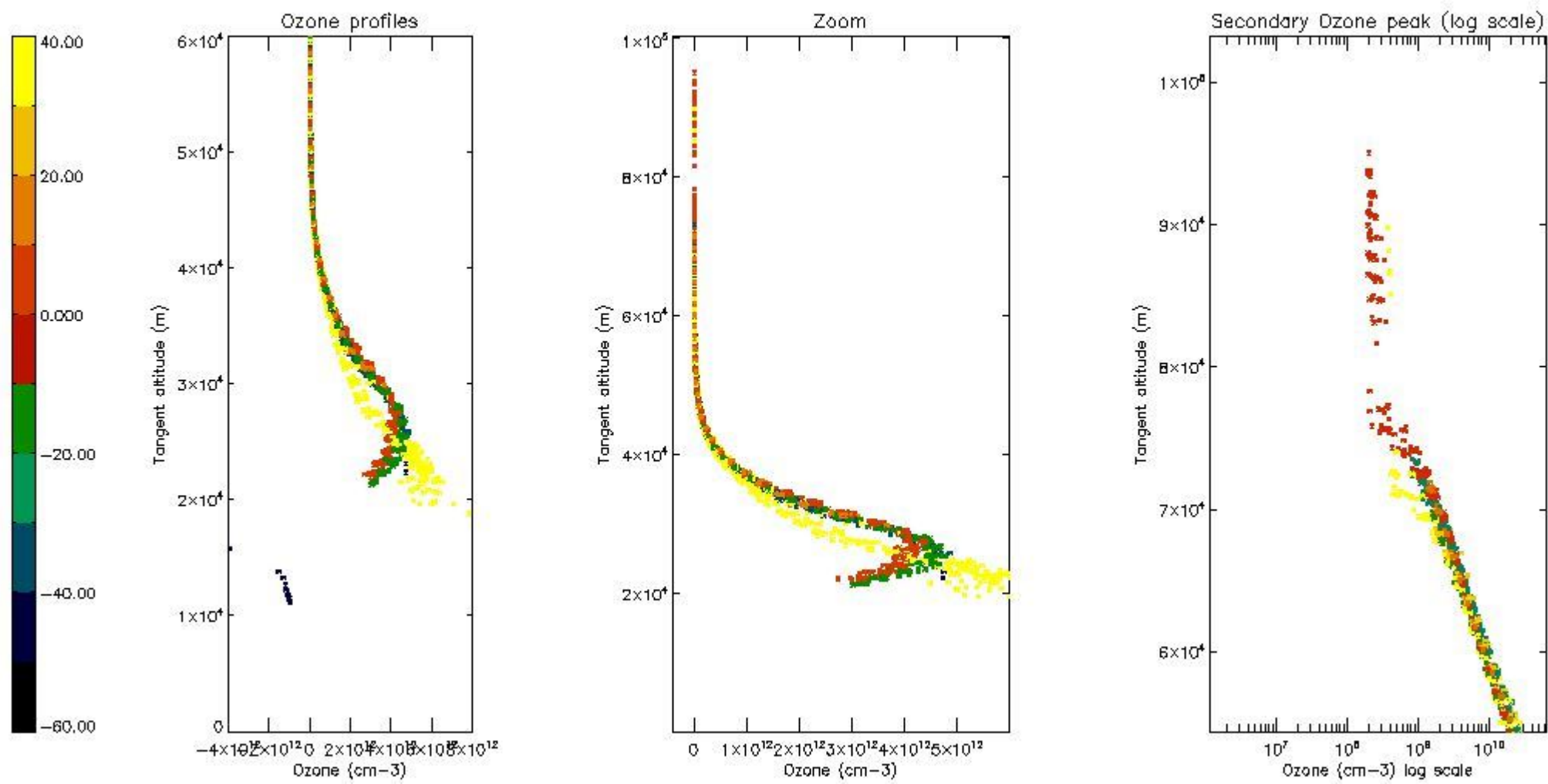
The colorbar represents the latitude.





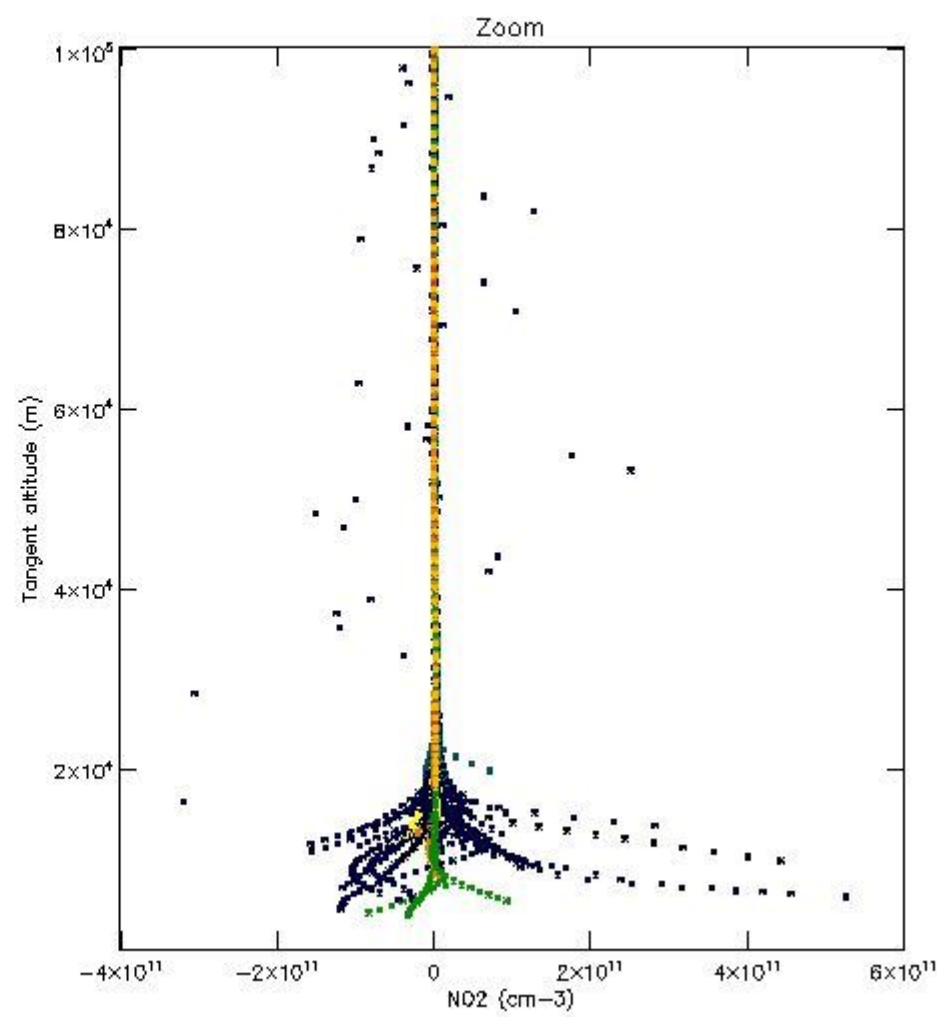
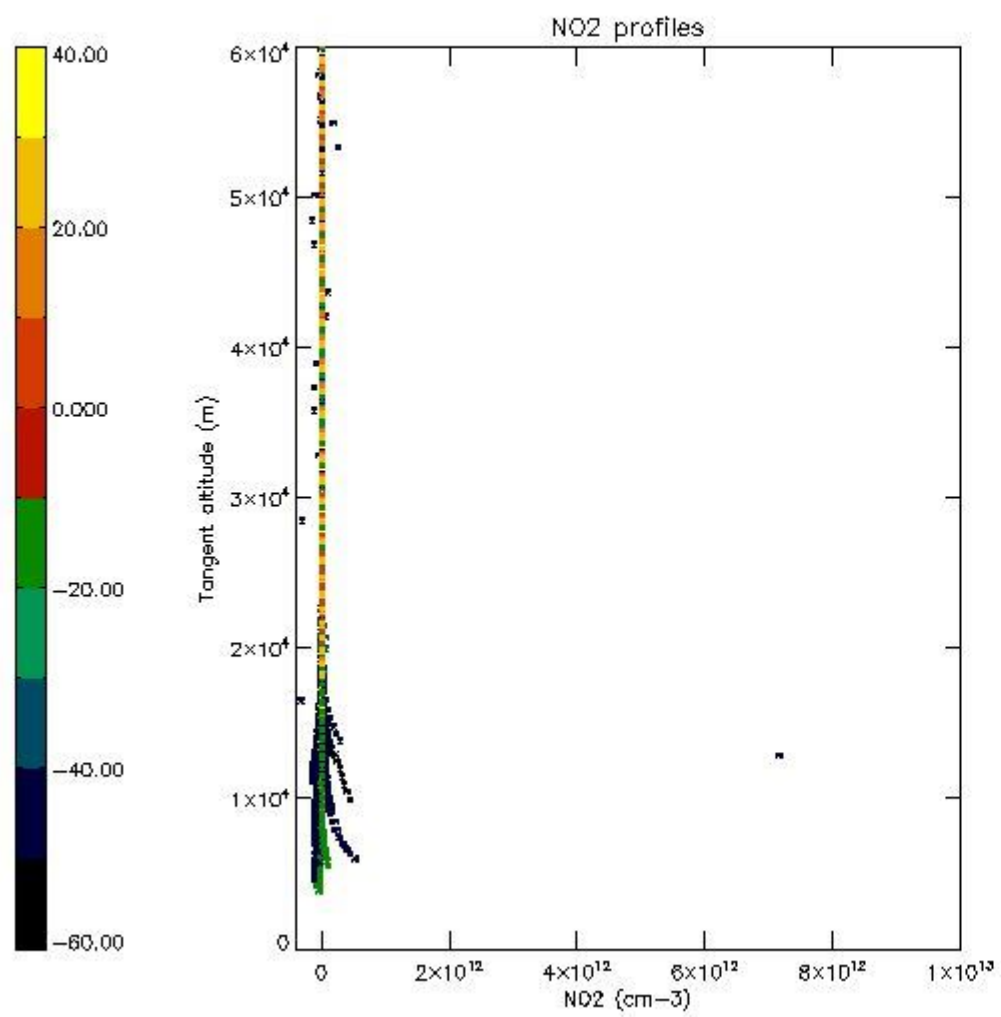
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



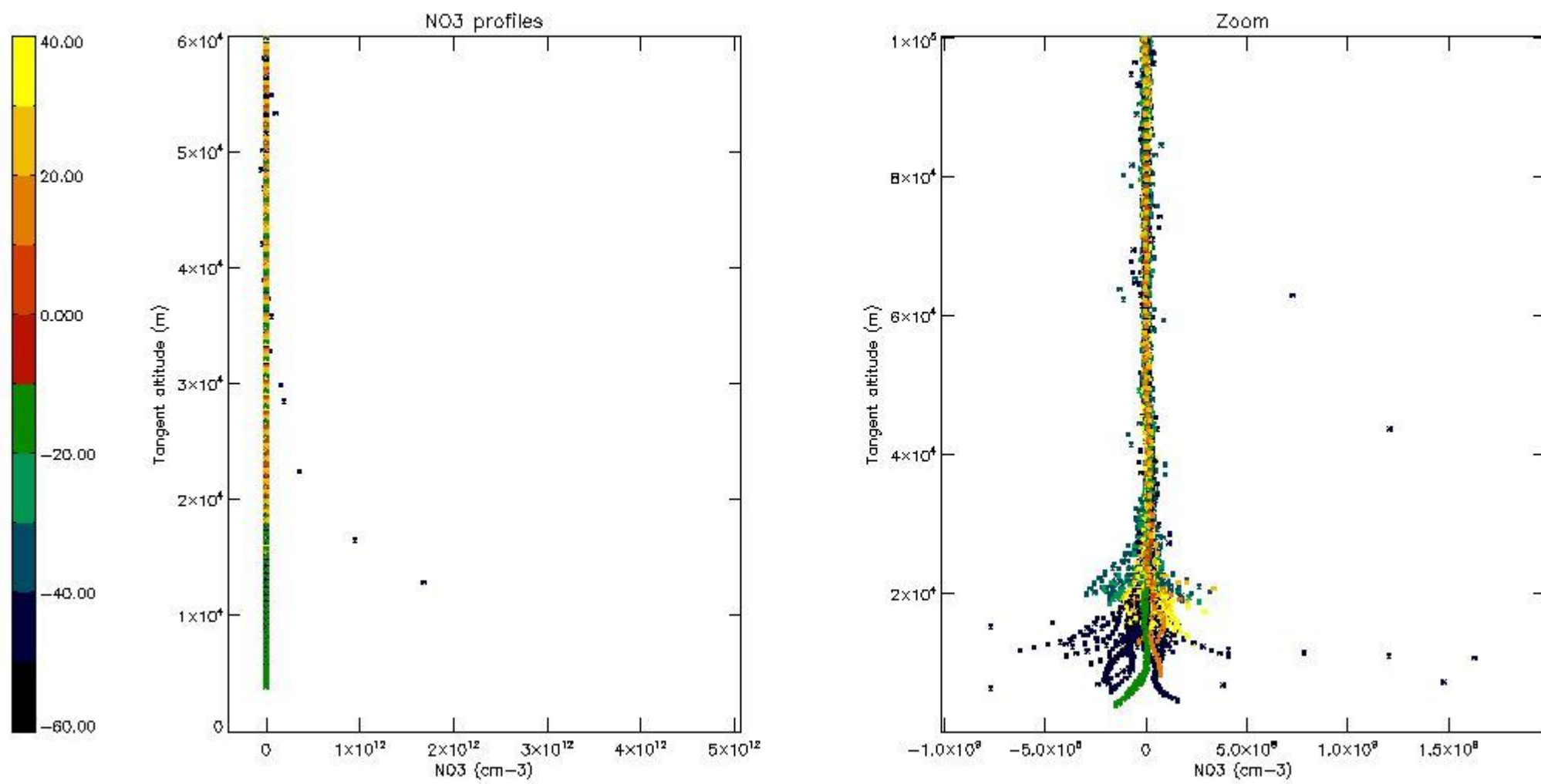
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



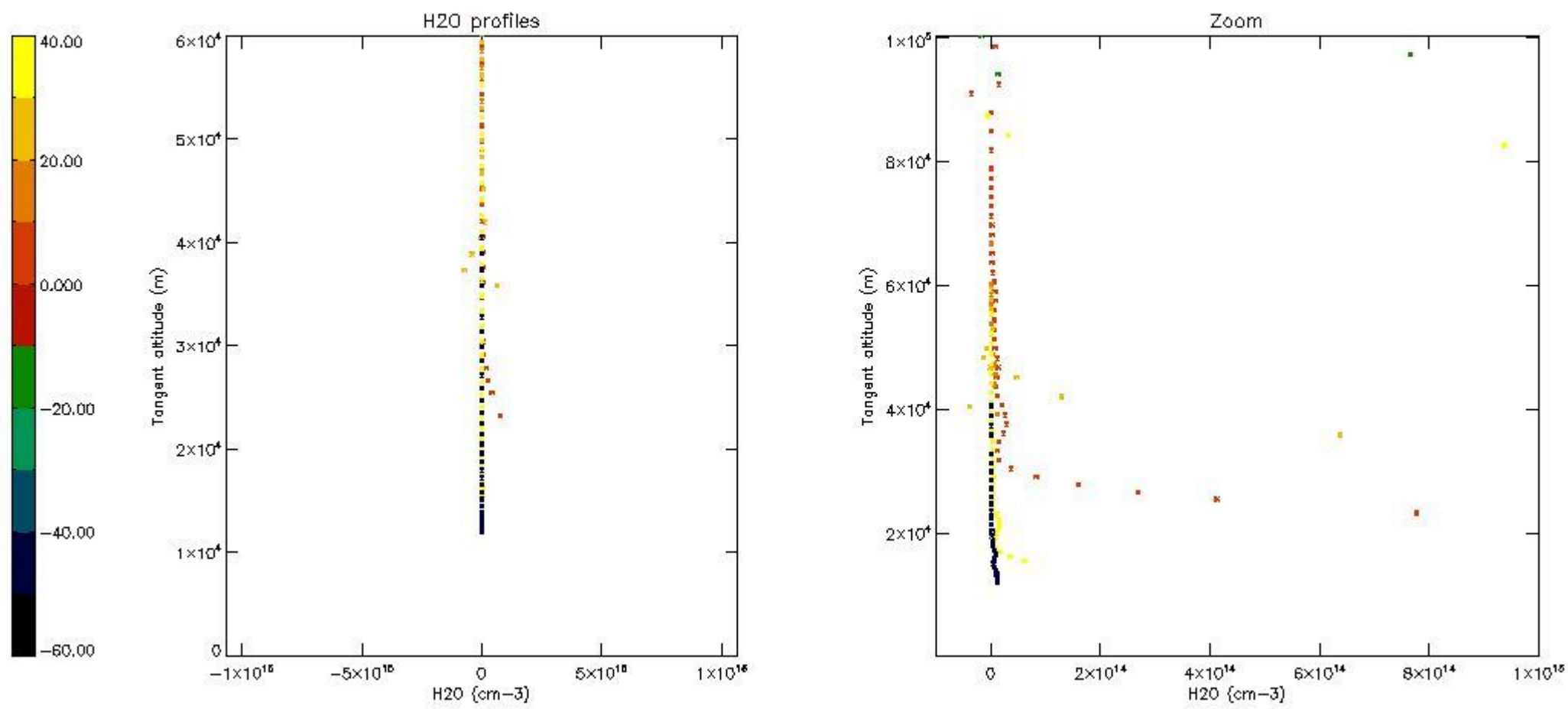
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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	25-JAN-2007 00:04:10
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	25-JAN-2007 00:04:10
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	25-JAN-2007 00:04:10

# GOMOS Level 2 Daily Report

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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	22APR2013 12:57:05
Data source version	GOMOS/6.01
Start time of products	25-01-2007 (25JAN2007 00:00:00)
Stop time of products	26-01-2007 (26JAN2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	368
Nb of prods with errors	1

## 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__2PRFIN20070125_000410_00000452055_00030_25635_4220.N1	25-JAN-2007 00:04:10	Dark	45.000	98	13Zet Oph	2.5710	30000.	90	25635	Yes
2	GOM_NL__2PRFIN20070125_000841_000000552055_00030_25635_4221.N1	25-JAN-2007 00:08:41	Twilight	54.500	16	21Alp Sco	1.0200	3000.0	109	25635	No
3	GOM_NL__2PRFIN20070125_001006_000000442055_00030_25635_4222.N1	25-JAN-2007 00:10:06	Dark	44.000	75	26Eps Sco	2.2910	4250.0	88	25635	No
4	GOM_NL__2PRFIN20070125_001746_000000322055_00031_25636_4239.N1	25-JAN-2007 00:17:46	Dark	32.000	78	Alp Lup	2.3040	28000.	64	25636	No
5	GOM_NL__2PRFIN20070125_001949_000000442055_00031_25636_4240.N1	25-JAN-2007 00:19:49	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	25636	No
6	GOM_NL__2PRFIN20070125_002422_000000462055_00031_25636_4241.N1	25-JAN-2007 00:24:22	Dark	45.500	12	Alp1Cru	0.77500	30000.	91	25636	No
7	GOM_NL__2PRFIN20070125_002824_000000382055_00031_25636_4242.N1	25-JAN-2007 00:28:24	Dark	37.500	29	Bet Car	1.6720	10200.	75	25636	No
8	GOM_NL__2PRFIN20070125_003036_000000412055_00031_25636_4243.N1	25-JAN-2007 00:30:36	Dark	40.500	71	lot Car	2.2460	7700.0	81	25636	No
9	GOM_NL__2PRFIN20070125_003224_000000402055_00031_25636_4244.N1	25-JAN-2007 00:32:24	Dark	40.000	46	Del Vel	1.9540	10600.	80	25636	No
10	GOM_NL__2PRFIN20070125_003501_000000412055_00031_25636_4245.N1	25-JAN-2007 00:35:01	Dark	40.500	34	Gam2Vel	1.7930	23000.	81	25636	No
11	GOM_NL__2PRFIN20070125_003707_000000392055_00031_25636_4246.N1	25-JAN-2007 00:37:07	Straylight	38.500	70	Zet Pup	2.2460	39000.	77	25636	No
12	GOM_NL__2PRFIN20070125_003836_000000422055_00031_25636_4247.N1	25-JAN-2007 00:38:36	Straylight	41.500	117	Pi Pup	2.7060	3800.0	83	25636	No
13	GOM_NL__2PRFIN20070125_004104_000000412055_00031_25636_4248.N1	25-JAN-2007 00:41:04	Straylight	40.500	23	21Eps CMa	1.5020	26000.	81	25636	No
14	GOM_NL__2PRFIN20070125_004227_000000382055_00031_25636_4249.N1	25-JAN-2007 00:42:27	Straylight	37.500	179	24Omi2CMa	3.0320	24000.	75	25636	No
15	GOM_NL__2PRFIN20070125_004437_000000452055_00031_25636_4250.N1	25-JAN-2007 00:44:37	Straylight	45.000	1	9Alp CMa	-1.4400	11000.	90	25636	No
16	GOM_NL__2PRFIN20070125_005137_000000412055_00031_25636_4251.N1	25-JAN-2007 00:51:37	Tw_and_stray	40.500	153	3Bet CMI	2.8940	13100.	81	25636	No
17	GOM_NL__2PRFIN20070125_005357_000000382055_00031_25636_4252.N1	25-JAN-2007 00:53:57	Bright	37.500	44	24Gam Gem	1.9280	11000.	75	25636	No
18	GOM_NL__2PRFIN20070125_005544_000000392055_00031_25636_4253.N1	25-JAN-2007 00:55:44	Bright	38.500	151	13Mu Gem	2.8900	3000.0	77	25636	No
19	GOM_NL__2PRFIN20070125_005957_000000352055_00031_25636_4254.N1	25-JAN-2007 00:59:57	Bright	35.000	107	37The Aur	2.6490	11000.	70	25636	No
20	GOM_NL__2PRFIN20070125_010205_000000352055_00031_25636_4255.N1	25-JAN-2007 01:02:05	Bright	35.000	42	34Bet Aur	1.9000	10200.	70	25636	No
21	GOM_NL__2PRFIN20070125_011435_000000342055_00031_25636_4256.N1	25-JAN-2007 01:14:35	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	25636	No
22	GOM_NL__2PRFIN20070125_012534_000000362055_00031_25636_4257.N1	25-JAN-2007 01:25:34	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	25636	No
23	GOM_NL__2PRFIN20070125_012858_000000352055_00031_25636_4258.N1	25-JAN-2007 01:28:58	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	25636	No
24	GOM_NL__2PRFIN20070125_013659_000000352055_00031_25636_4259.N1	25-JAN-2007 01:36:59	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	25636	No
25	GOM_NL__2PRFIN20070125_013906_000000342055_00031_25636_4260.N1	25-JAN-2007 01:39:06	Bright	33.500	126	60Bet Oph	2.7700	4250.0	67	25636	No
26	GOM_NL__2PRFIN20070125_014446_000000462055_00031_25636_4261.N1	25-JAN-2007 01:44:46	Tw_and_stray	45.500	98	13Zet Oph	2.5710	30000.	91	25636	No
27	GOM_NL__2PRFIN20070125_014917_000000552055_00031_25636_4262.N1	25-JAN-2007 01:49:17	Twilight	55.000	16	21Alp Sco	1.0200	3000.0	110	25636	No
28	GOM_NL__2PRFIN20070125_015043_000000442055_00031_25636_4263.N1	25-JAN-2007 01:50:43	Dark	43.500	75	26Eps Sco	2.2910	4250.0	87	25636	No
29	GOM_NL__2PRFIN20070125_015451_000000412055_00031_25636_4264.N1	25-JAN-2007 01:54:51	Dark	41.000	131	Gam Lup	2.8000	26000.	82	25636	No
30	GOM_NL__2PRFIN20070125_015822_000000272055_00032_25637_4268.N1	25-JAN-2007 01:58:22	Dark	27.000	78	Alp Lup	2.3040	28000.	54	25637	No
31	GOM_NL__2PRFIN20070125_020025_000000422055_00032_25637_4269.N1	25-JAN-2007 02:00:25	Dark	41.500	4	Alp1Cen	-0.010000	5800.0	83	25637	No
32	GOM_NL__2PRFIN20070125_020459_000000402055_00032_25637_4270.N1	25-JAN-2007 02:04:59	Dark	39.500	12	Alp1Cru	0.77500	30000.	79	25637	No
33	GOM_NL__2PRFIN20070125_020901_000000392055_00032_25637_4271.N1	25-JAN-2007 02:09:01	Dark	38.500	29	Bet Car	1.6720	10200.	77	25637	No
34	GOM_NL__2PRFIN20070125_021112_000000382055_00032_25637_4272.N1	25-JAN-2007 02:11:12	Dark	38.000	71	lot Car	2.2460	7700.0	76	25637	No
35	GOM_NL__2PRFIN20070125_021300_000000402055_00032_25637_4273.N1	25-JAN-2007 02:13:00	Dark	39.500	46	Del Vel	1.9540	10600.	79	25637	No
36	GOM_NL__2PRFIN20070125_021537_000000412055_00032_25637_4274.N1	25-JAN-2007 02:15:37	Dark	41.000	34	Gam2Vel	1.7930	23000.	82	25637	No
37	GOM_NL__2PRFIN20070125_021743_000000412055_00032_25637_4275.N1	25-JAN-2007 02:17:43	Straylight	41.000	70	Zet Pup	2.2460	39000.	82	25637	No
38	GOM_NL__2PRFIN20070125_021912_000000442055_00032_25637_4276.N1	25-JAN-2007 02:19:12	Straylight	43.500	117	Pi Pup	2.7060	3800.0	87	25637	No
39	GOM_NL__2PRFIN20070125_022140_000000432055_00032_25637_4277.N1	25-JAN-2007 02:21:40	Straylight	42.500	23	21Eps CMa	1.5020	26000.	85	25637	No
40	GOM_NL__2PRFIN20070125_022304_000000372055_00032_25637_4278.N1	25-JAN-2007 02:23:04	Straylight	36.500	179	24Omi2CMa	3.0320	24000.	73	25637	No
41	GOM_NL__2PRFIN20070125_022513_000000432055_00032_25637_4279.N1	25-JAN-2007 02:25:13	Straylight	42.500	1	9Alp CMa	-1.4400	11000.	85	25637	No
42	GOM_NL__2PRFIN20070125_023213_000000402055_00032_25637_4280.N1	25-JAN-2007 02:32:13	Tw_and_stray	40.000	153	3Bet CMI	2.8940	13100.	80	25637	No

43	GOM_NL__2PRFIN20070125_023433_000000382055_00032_25637_4281.N1	25-JAN-2007 02:34:33	Bright	37.500	44	24Gam Gem	1.9280	11000.	75	25637	No
44	GOM_NL__2PRFIN20070125_023620_000000372055_00032_25637_4282.N1	25-JAN-2007 02:36:20	Bright	37.000	151	13Mu Gem	2.8900	3000.0	74	25637	No
45	GOM_NL__2PRFIN20070125_024033_000000362055_00032_25637_4283.N1	25-JAN-2007 02:40:33	Bright	35.500	107	37The Aur	2.6490	11000.	71	25637	No
46	GOM_NL__2PRFIN20070125_024241_000000362055_00032_25637_4284.N1	25-JAN-2007 02:42:41	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	25637	No
47	GOM_NL__2PRFIN20070125_025511_000000332055_00032_25637_4285.N1	25-JAN-2007 02:55:11	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	25637	No
48	GOM_NL__2PRFIN20070125_030610_000000372055_00032_25637_4286.N1	25-JAN-2007 03:06:10	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	25637	No
49	GOM_NL__2PRFIN20070125_030934_000000322055_00032_25637_4287.N1	25-JAN-2007 03:09:34	Bright	32.000	5	3Alp Lyr	0.033000	11000.	64	25637	No
50	GOM_NL__2PRFIN20070125_031735_000000352055_00032_25637_4288.N1	25-JAN-2007 03:17:35	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	25637	No
51	GOM_NL__2PRFIN20070125_031942_000000342055_00032_25637_4289.N1	25-JAN-2007 03:19:42	Bright	33.500	126	60Bet Oph	2.7700	4250.0	67	25637	No
52	GOM_NL__2PRFIN20070125_032523_000000462055_00032_25637_4290.N1	25-JAN-2007 03:25:23	Twi_and_stray	46.000	98	13Zet Oph	2.5710	30000.	92	25637	No
53	GOM_NL__2PRFIN20070125_032954_000000482055_00032_25637_4291.N1	25-JAN-2007 03:29:54	Dark	48.000	16	21Alp Sco	1.0200	3000.0	96	25637	No
54	GOM_NL__2PRFIN20070125_033119_000000422055_00032_25637_4292.N1	25-JAN-2007 03:31:19	Dark	42.000	75	26Eps Sco	2.2910	4250.0	84	25637	No
55	GOM_NL__2PRFIN20070125_033859_000000272055_00033_25638_4284.N1	25-JAN-2007 03:38:59	Dark	27.000	78	Alp Lup	2.3040	28000.	54	25638	No
56	GOM_NL__2PRFIN20070125_034102_000000492055_00033_25638_4285.N1	25-JAN-2007 03:41:02	Dark	49.000	4	Alp1Cen	-0.010000	5800.0	98	25638	No
57	GOM_NL__2PRFIN20070125_034535_000000432055_00033_25638_4286.N1	25-JAN-2007 03:45:35	Dark	43.000	12	Alp1Cru	0.77500	30000.	86	25638	No
58	GOM_NL__2PRFIN20070125_034937_000000382055_00033_25638_4287.N1	25-JAN-2007 03:49:37	Dark	37.500	29	Bet Car	1.6720	10200.	75	25638	No
59	GOM_NL__2PRFIN20070125_035148_000000392055_00033_25638_4288.N1	25-JAN-2007 03:51:48	Dark	38.500	71	lot Car	2.2460	7700.0	77	25638	No
60	GOM_NL__2PRFIN20070125_035337_000000392055_00033_25638_4289.N1	25-JAN-2007 03:53:37	Dark	38.500	46	Del Vel	1.9540	10600.	77	25638	No
61	GOM_NL__2PRFIN20070125_035613_000000402055_00033_25638_4290.N1	25-JAN-2007 03:56:13	Dark	40.000	34	Gam2Vel	1.7930	23000.	80	25638	No
62	GOM_NL__2PRFIN20070125_035819_000000432055_00033_25638_4291.N1	25-JAN-2007 03:58:19	Straylight	42.500	70	Zet Pup	2.2460	39000.	85	25638	No
63	GOM_NL__2PRFIN20070125_035949_000000442055_00033_25638_4292.N1	25-JAN-2007 03:59:49	Straylight	44.000	117	Pi Pup	2.7060	3800.0	88	25638	No
64	GOM_NL__2PRFIN20070125_040217_000000402055_00033_25638_4293.N1	25-JAN-2007 04:02:17	Straylight	39.500	23	21Eps CMa	1.5020	26000.	79	25638	No
65	GOM_NL__2PRFIN20070125_040340_000000382055_00033_25638_4294.N1	25-JAN-2007 04:03:40	Straylight	38.000	179	24Omi2CMa	3.0320	24000.	76	25638	No
66	GOM_NL__2PRFIN20070125_040549_000000492055_00033_25638_4295.N1	25-JAN-2007 04:05:49	Straylight	48.500	1	9Alp CMa	-1.4400	11000.	97	25638	No
67	GOM_NL__2PRFIN20070125_041249_000000412055_00033_25638_4296.N1	25-JAN-2007 04:12:49	Twi_and_stray	41.000	153	3Bet CMi	2.8940	13100.	82	25638	No
68	GOM_NL__2PRFIN20070125_041509_000000402055_00033_25638_4297.N1	25-JAN-2007 04:15:09	Bright	39.500	44	24Gam Gem	1.9280	11000.	79	25638	No
69	GOM_NL__2PRFIN20070125_041656_000000382055_00033_25638_4298.N1	25-JAN-2007 04:16:56	Bright	37.500	151	13Mu Gem	2.8900	3000.0	75	25638	No
70	GOM_NL__2PRFIN20070125_042109_000000342055_00033_25638_4299.N1	25-JAN-2007 04:21:09	Bright	34.000	107	37The Aur	2.6490	11000.	68	25638	No
71	GOM_NL__2PRFIN20070125_042317_000000342055_00033_25638_4300.N1	25-JAN-2007 04:23:17	Bright	34.000	42	34Bet Aur	1.9000	10200.	68	25638	No
72	GOM_NL__2PRFIN20070125_043547_000000362055_00033_25638_4301.N1	25-JAN-2007 04:35:47	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	25638	No
73	GOM_NL__2PRFIN20070125_044646_000000382055_00033_25638_4302.N1	25-JAN-2007 04:46:46	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	25638	No
74	GOM_NL__2PRFIN20070125_045010_000000362055_00033_25638_4303.N1	25-JAN-2007 04:50:10	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	25638	No
75	GOM_NL__2PRFIN20070125_045811_000000352055_00033_25638_4304.N1	25-JAN-2007 04:58:11	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	25638	No
76	GOM_NL__2PRFIN20070125_050018_000000342055_00033_25638_4305.N1	25-JAN-2007 05:00:18	Bright	34.000	126	60Bet Oph	2.7700	4250.0	68	25638	No
77	GOM_NL__2PRFIN20070125_050600_000000442055_00033_25638_4306.N1	25-JAN-2007 05:06:00	Twi_and_stray	43.500	98	13Zet Oph	2.5710	30000.	87	25638	No
78	GOM_NL__2PRFIN20070125_051030_000000512055_00033_25638_4307.N1	25-JAN-2007 05:10:30	Dark	51.000	16	21Alp Sco	1.0200	3000.0	102	25638	No
79	GOM_NL__2PRFIN20070125_051156_000000452055_00033_25638_4308.N1	25-JAN-2007 05:11:56	Dark	44.500	75	26Eps Sco	2.2910	4250.0	89	25638	No
80	GOM_NL__2PRFIN20070125_051605_000000402055_00033_25638_4309.N1	25-JAN-2007 05:16:05	Dark	39.500	131	Gam Lup	2.8000	26000.	79	25638	No
81	GOM_NL__2PRFIN20070125_052138_000000532055_00034_25639_4295.N1	25-JAN-2007 05:21:38	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	25639	No
82	GOM_NL__2PRFIN20070125_052612_000000402055_00034_25639_4296.N1	25-JAN-2007 05:26:12	Dark	40.000	12	Alp1Cru	0.77500	30000.	80	25639	No
83	GOM_NL__2PRFIN20070125_053013_000000372055_00034_25639_4297.N1	25-JAN-2007 05:30:13	Dark	37.000	29	Bet Car	1.6720	10200.	74	25639	No
84	GOM_NL__2PRFIN20070125_053225_000000392055_00034_25639_4298.N1	25-JAN-2007 05:32:25	Dark	38.500	71	lot Car	2.2460	7700.0	77	25639	No
85	GOM_NL__2PRFIN20070125_053413_000000432055_00034_25639_4299.N1	25-JAN-2007 05:34:13	Dark	43.000	46	Del Vel	1.9540	10600.	86	25639	No
86	GOM_NL__2PRFIN20070125_053649_000000402055_00034_25639_4300.N1	25-JAN-2007 05:36:49	Dark	40.000	34	Gam2Vel	1.7930	23000.	80	25639	No
87	GOM_NL__2PRFIN20070125_053856_000000402055_00034_25639_4301.N1	25-JAN-2007 05:38:56	Straylight	40.000	70	Zet Pup	2.2460	39000.	80	25639	No
88	GOM_NL__2PRFIN20070125_054025_000000412055_00034_25639_4302.N1	25-JAN-2007 05:40:25	Straylight	41.000	117	Pi Pup	2.7060	3800.0	82	25639	No
89	GOM_NL__2PRFIN20070125_054253_000000382055_00034_25639_4303.N1	25-JAN-2007 05:42:53	Straylight	38.000	23	21Eps CMa	1.5020	26000.	76	25639	No
90	GOM_NL__2PRFIN20070125_054416_000000382055_00034_25639_4304.N1	25-JAN-2007 05:44:16	Straylight	38.000	179	24Omi2CMa	3.0320	24000.	76	25639	No
91	GOM_NL__2PRFIN20070125_054625_000000472055_00034_25639_4305.N1	25-JAN-2007 05:46:25	Straylight	46.500	1	9Alp CMa	-1.4400	11000.	93	25639	No
92	GOM_NL__2PRFIN20070125_055325_000000432055_00034_25639_4306.N1	25-JAN-2007 05:53:25	Twi_and_stray	43.000	153	3Bet CMi	2.8940	13100.	86	25639	No
93	GOM_NL__2PRFIN20070125_055545_000000382055_00034_25639_4307.N1	25-JAN-2007 05:55:45	Bright	37.500	44	24Gam Gem	1.9280	11000.	75	25639	No
94	GOM_NL__2PRFIN20070125_055732_000000372055_00034_25639_4308.N1	25-JAN-2007 05:57:32	Bright	37.000	151	13Mu Gem	2.8900	3000.0	74	25639	No
95	GOM_NL__2PRFIN20070125_060146_000000352055_00034_25639_4309.N1	25-JAN-2007 06:01:46	Bright	35.000	107	37The Aur	2.6490	11000.	70	25639	No
96	GOM_NL__2PRFIN20070125_060354_000000352055_00034_25639_4310.N1	25-JAN-2007 06:03:54	Bright	35.000	42	34Bet Aur	1.9000	10200.	70	25639	No
97	GOM_NL__2PRFIN20070125_061623_000000362055_00034_25639_4311.N1	25-JAN-2007 06:16:23	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	25639	No
98	GOM_NL__2PRFIN20070125_062722_000000412055_00034_25639_4312.N1	25-JAN-2007 06:27:22	Bright	41.000	130	23Bet Dra	2.7990	5800.0	82	25639	No
99	GOM_NL__2PRFIN20070125_063046_000000352055_00034_25639_4313.N1	25-JAN-2007 06:30:46	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	25639	No
100	GOM_NL__2PRFIN20070125_063848_000000342055_00034_25639_4314.N1	25-JAN-2007 06:38:48	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	25639	No
101	GOM_NL__2PRFIN20070125_064054_000000342055_00034_25639_4315.N1	25-JAN-2007 06:40:54	Bright	34.000	126	60Bet Oph	2.7700	4250.0	68	25639	No









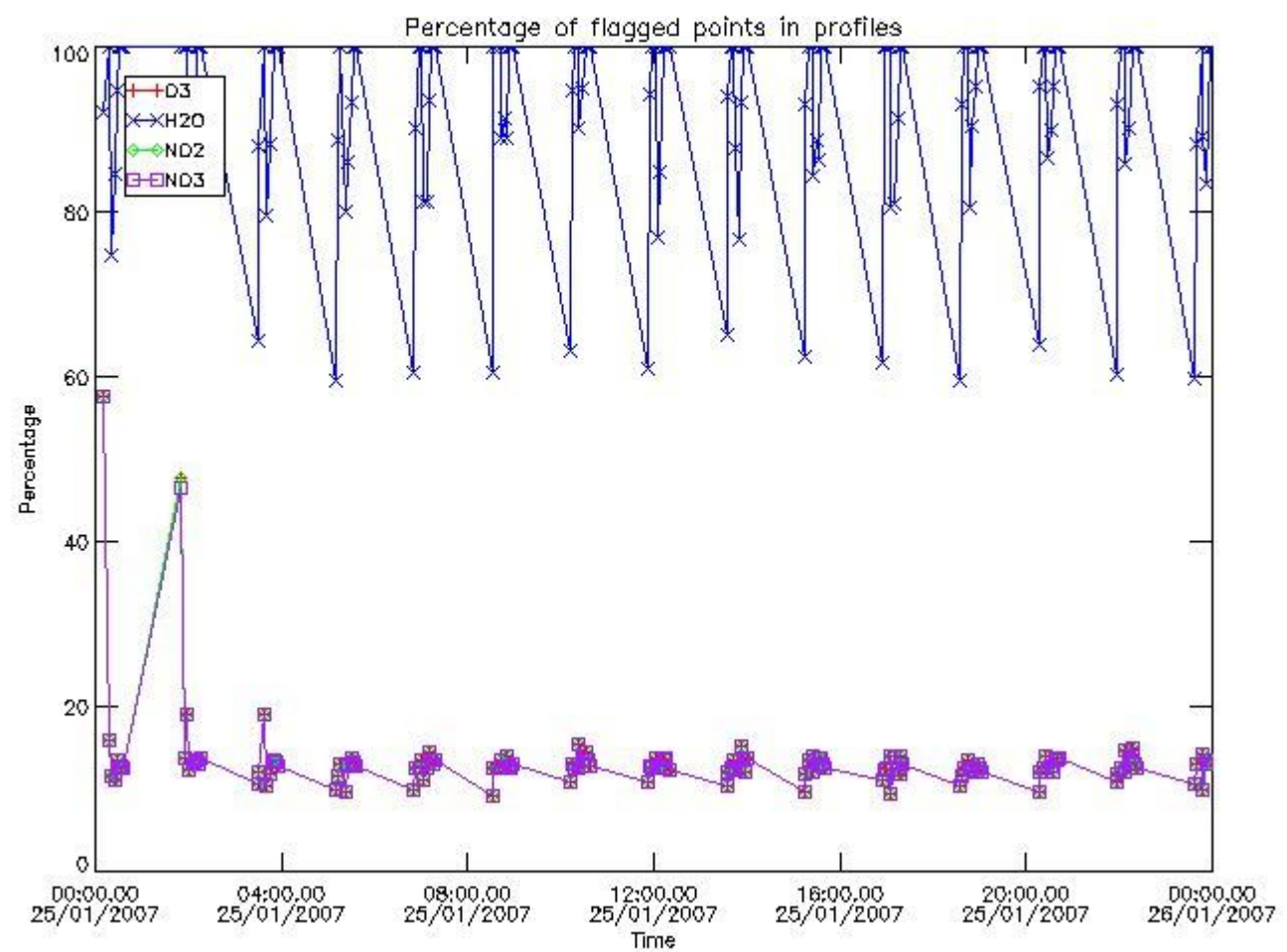


338	GOM_NL__2PRFIN20070125_220212_000000412055_00043_25648_4464.N1	25-JAN-2007 22:02:12	Dark	40.500	131	Gam Lup	2.8000	26000.	81	25648	No
339	GOM_NL__2PRFIN20070125_220616_000000382055_00044_25649_4447.N1	25-JAN-2007 22:06:16	Dark	38.000	134	Bet TrA	2.8100	6600.0	76	25649	No
340	GOM_NL__2PRFIN20070125_220743_000000432055_00044_25649_4448.N1	25-JAN-2007 22:07:43	Dark	42.500	4	Alp1Cen	-0.010000	5800.0	85	25649	No
341	GOM_NL__2PRFIN20070125_221217_000000412055_00044_25649_4449.N1	25-JAN-2007 22:12:17	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	25649	No
342	GOM_NL__2PRFIN20070125_221615_000000372055_00044_25649_4450.N1	25-JAN-2007 22:16:15	Dark	36.500	29	Bet Car	1.6720	10200.	73	25649	No
343	GOM_NL__2PRFIN20070125_221828_000000382055_00044_25649_4451.N1	25-JAN-2007 22:18:28	Dark	37.500	71	lot Car	2.2460	7700.0	75	25649	No
344	GOM_NL__2PRFIN20070125_222016_000000392055_00044_25649_4452.N1	25-JAN-2007 22:20:16	Dark	39.000	46	Del Vel	1.9540	10600.	78	25649	No
345	GOM_NL__2PRFIN20070125_222252_000000412055_00044_25649_4453.N1	25-JAN-2007 22:22:52	Dark	40.500	34	Gam2Vel	1.7930	23000.	81	25649	No
346	GOM_NL__2PRFIN20070125_222458_000000392055_00044_25649_4454.N1	25-JAN-2007 22:24:58	Straylight	39.000	70	Zet Pup	2.2460	39000.	78	25649	No
347	GOM_NL__2PRFIN20070125_222626_000000412055_00044_25649_4455.N1	25-JAN-2007 22:26:26	Straylight	41.000	117	Pi Pup	2.7060	3800.0	82	25649	No
348	GOM_NL__2PRFIN20070125_222854_000000402055_00044_25649_4456.N1	25-JAN-2007 22:28:54	Straylight	40.000	23	21Eps CMa	1.5020	26000.	80	25649	No
349	GOM_NL__2PRFIN20070125_223017_000000372055_00044_25649_4457.N1	25-JAN-2007 22:30:17	Straylight	37.000	179	24Omi2CMa	3.0320	24000.	74	25649	No
350	GOM_NL__2PRFIN20070125_223227_000000462055_00044_25649_4458.N1	25-JAN-2007 22:32:27	Straylight	45.500	1	9Alp CMa	-1.4400	11000.	91	25649	No
351	GOM_NL__2PRFIN20070125_223924_000000402055_00044_25649_4459.N1	25-JAN-2007 22:39:24	Twilight_stray	40.000	153	3Bet CMi	2.8940	13100.	80	25649	No
352	GOM_NL__2PRFIN20070125_224145_000000382055_00044_25649_4460.N1	25-JAN-2007 22:41:45	Bright	37.500	44	24Gam Gem	1.9280	11000.	75	25649	No
353	GOM_NL__2PRFIN20070125_224332_000000382055_00044_25649_4461.N1	25-JAN-2007 22:43:32	Bright	37.500	151	13Mu Gem	2.8900	3000.0	75	25649	No
354	GOM_NL__2PRFIN20070125_224747_000000352055_00044_25649_4462.N1	25-JAN-2007 22:47:47	Bright	35.000	107	37The Aur	2.6490	11000.	70	25649	No
355	GOM_NL__2PRFIN20070125_224954_000000362055_00044_25649_4463.N1	25-JAN-2007 22:49:54	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	25649	No
356	GOM_NL__2PRFIN20070125_230222_000000352055_00044_25649_4464.N1	25-JAN-2007 23:02:22	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	25649	No
357	GOM_NL__2PRFIN20070125_231322_000000362055_00044_25649_4465.N1	25-JAN-2007 23:13:22	Bright	35.500	130	23Bet Dra	2.7990	5800.0	71	25649	No
358	GOM_NL__2PRFIN20070125_231647_000000332055_00044_25649_4466.N1	25-JAN-2007 23:16:47	Bright	33.000	5	3Alp Lyr	0.033000	11000.	66	25649	No
359	GOM_NL__2PRFIN20070125_232449_000000352055_00044_25649_4467.N1	25-JAN-2007 23:24:49	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	25649	No
360	GOM_NL__2PRFIN20070125_232656_000000342055_00044_25649_4468.N1	25-JAN-2007 23:26:56	Bright	34.000	126	60Bet Oph	2.7700	4250.0	68	25649	No
361	GOM_NL__2PRFIN20070125_233310_000000422055_00044_25649_4469.N1	25-JAN-2007 23:33:10	Bright	41.500	86	35Eta Oph	2.4300	10200.	83	25649	No
362	GOM_NL__2PRFIN20070125_233712_000000532055_00044_25649_4470.N1	25-JAN-2007 23:37:12	Dark	52.500	16	21Alp Sco	1.0200	3000.0	105	25649	No
363	GOM_NL__2PRFIN20070125_233836_000000432055_00044_25649_4471.N1	25-JAN-2007 23:38:36	Dark	43.000	75	26Eps Sco	2.2910	4250.0	86	25649	No
364	GOM_NL__2PRFIN20070125_234652_000000362055_00045_25650_4568.N1	25-JAN-2007 23:46:52	Dark	36.000	134	Bet TrA	2.8100	6600.0	72	25650	No
365	GOM_NL__2PRFIN20070125_234819_000000522055_00045_25650_4569.N1	25-JAN-2007 23:48:19	Dark	51.500	4	Alp1Cen	-0.010000	5800.0	103	25650	No
366	GOM_NL__2PRFIN20070125_235253_000000402055_00045_25650_4570.N1	25-JAN-2007 23:52:53	Dark	39.500	12	Alp1Cru	0.77500	30000.	79	25650	No
367	GOM_NL__2PRFIN20070125_235651_000000382055_00045_25650_4571.N1	25-JAN-2007 23:56:51	Dark	37.500	29	Bet Car	1.6720	10200.	75	25650	No
368	GOM_NL__2PRFIN20070125_235904_000000392055_00045_25650_4572.N1	25-JAN-2007 23:59:04	Dark	39.000	71	lot Car	2.2460	7700.0	78	25650	No

### 3. Quality information per product

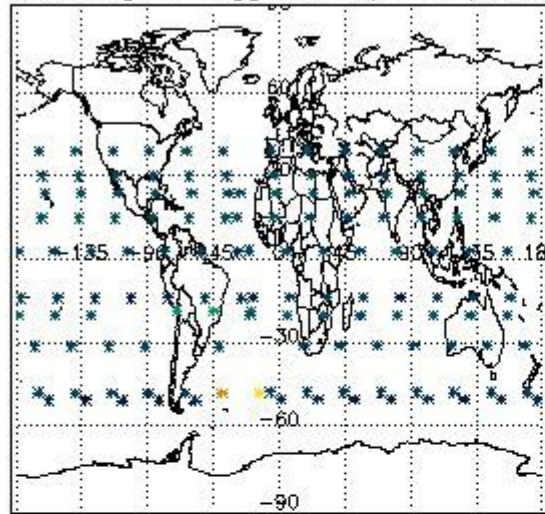
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

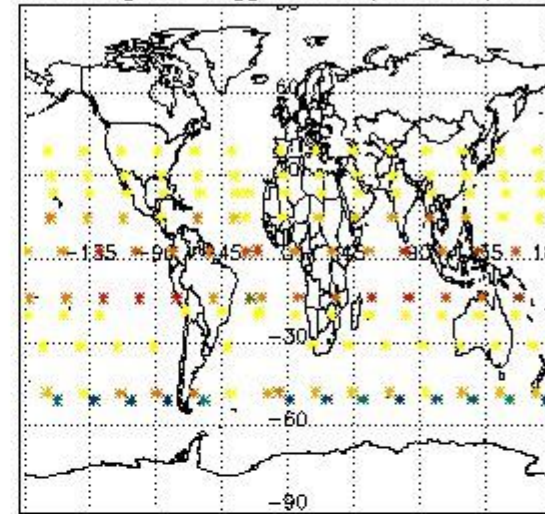


3.2 Plot quality information per product (world map)

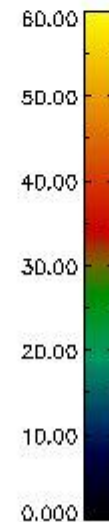
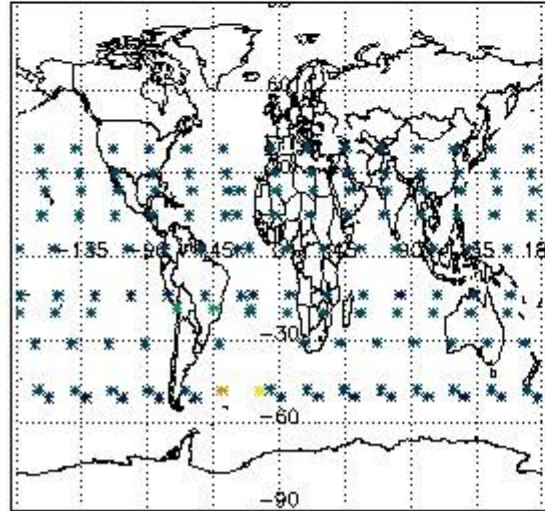
Percentage of flagged data per O3 profile



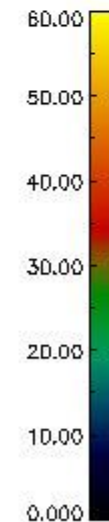
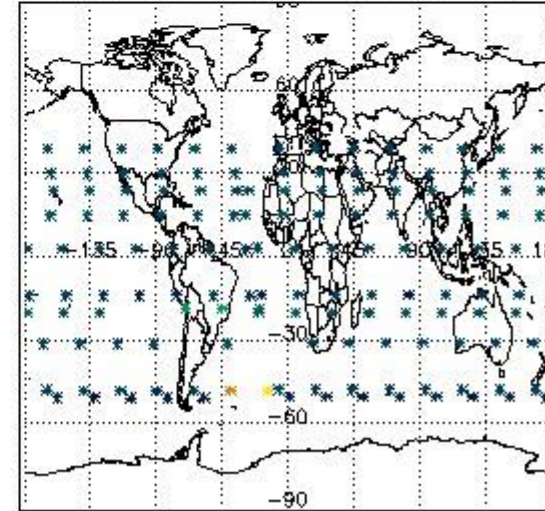
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

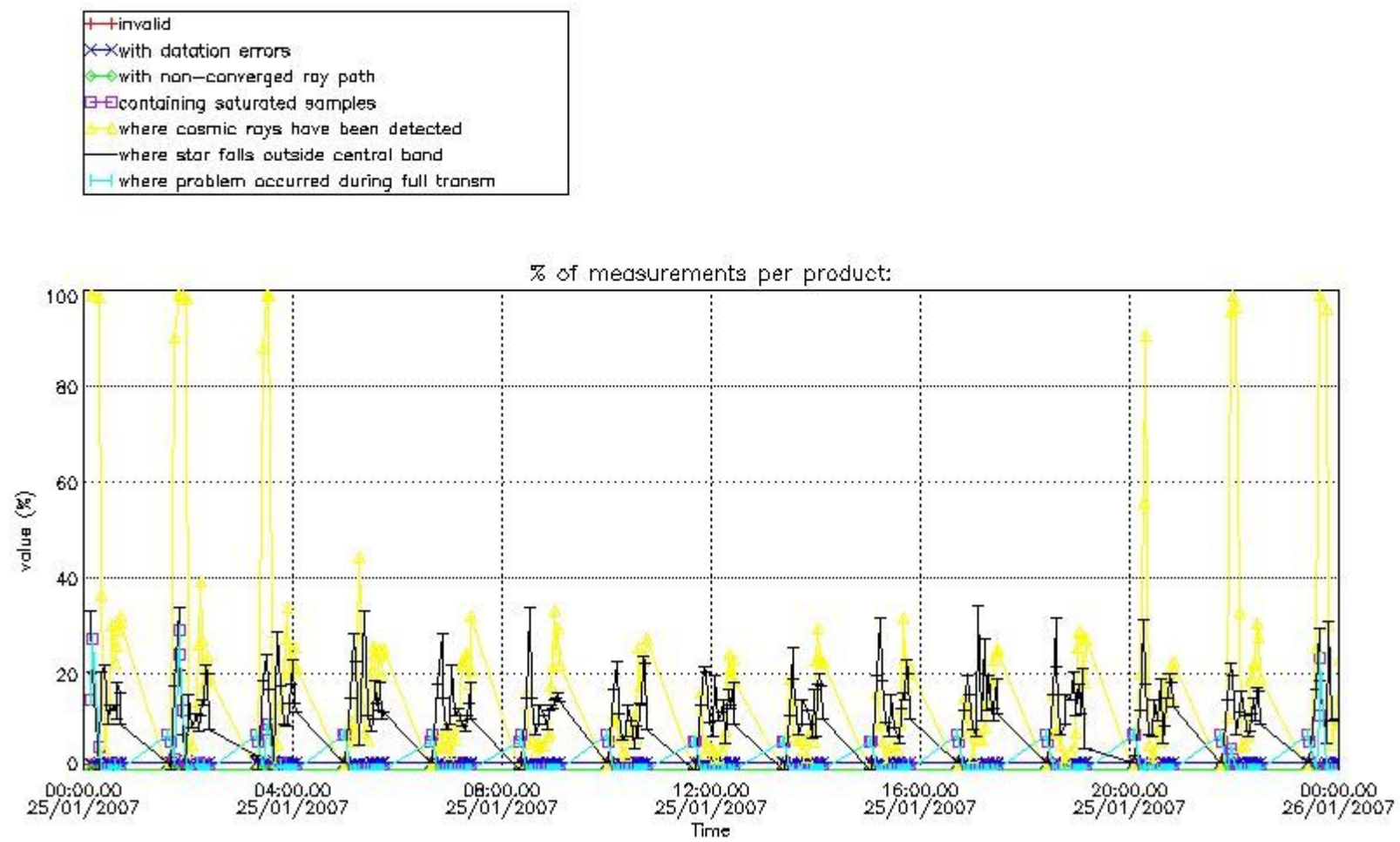


#### 4. Level 1 quality information per product

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.

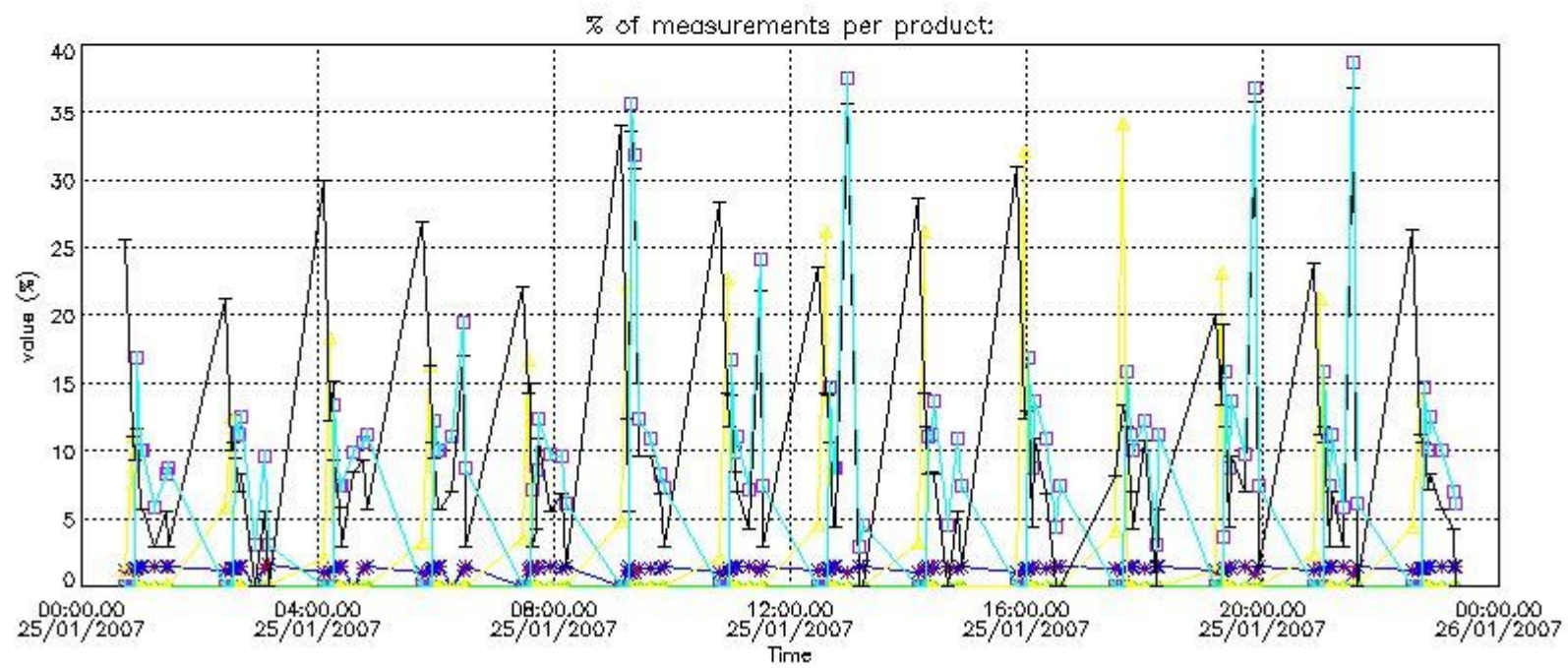
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

##### 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

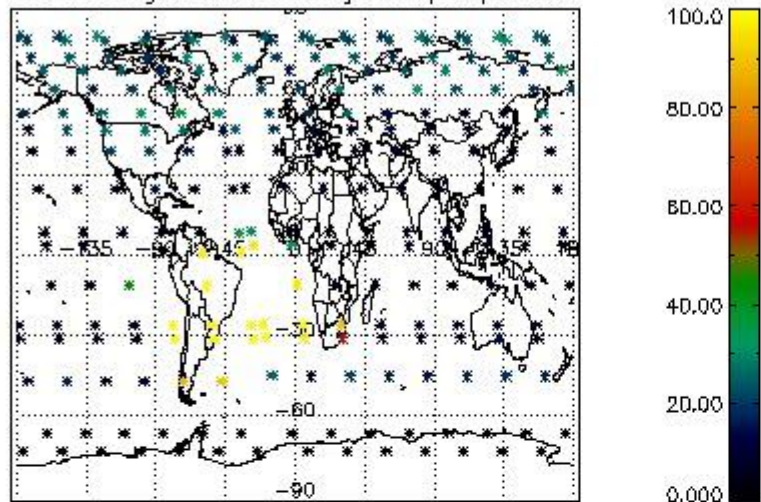




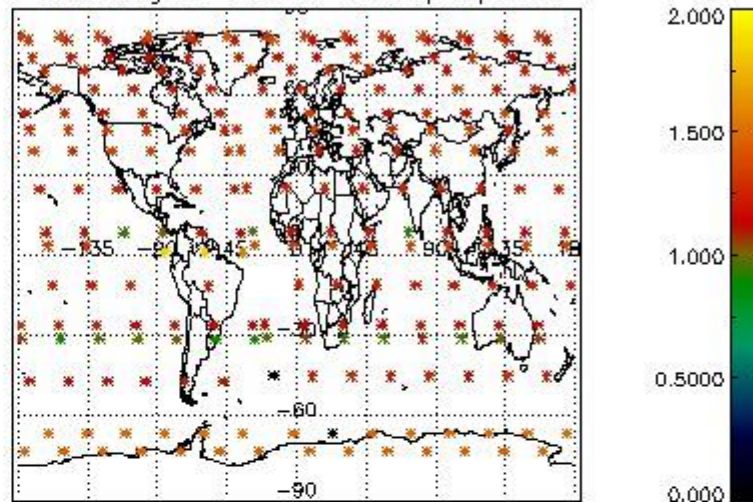
4.2 Plot quality information per product coming from level 1b processing (world map)

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

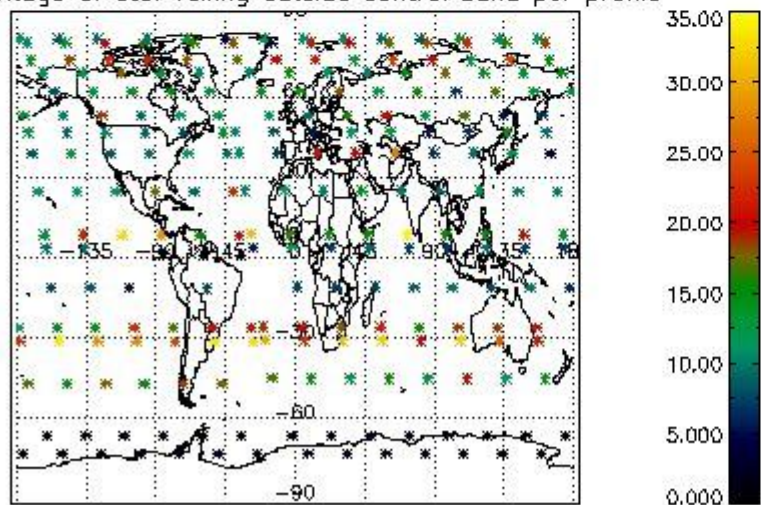
Percentage of cosmic ray hits per profile



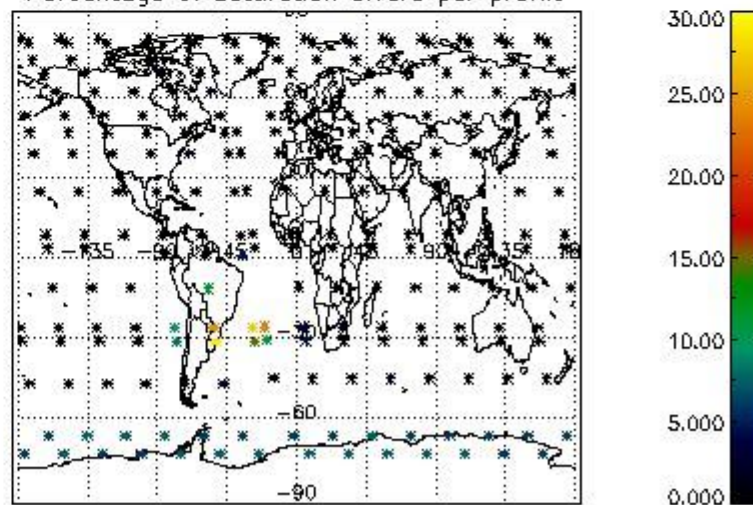
Percentage of datation errors per profile



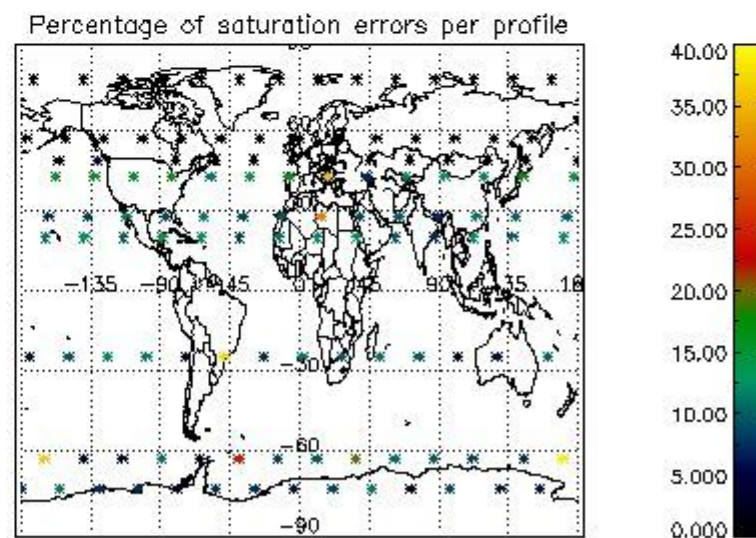
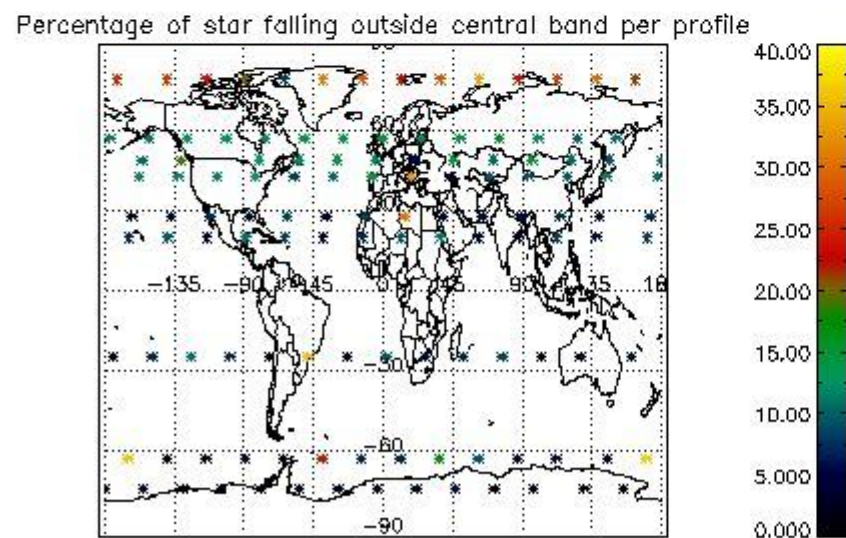
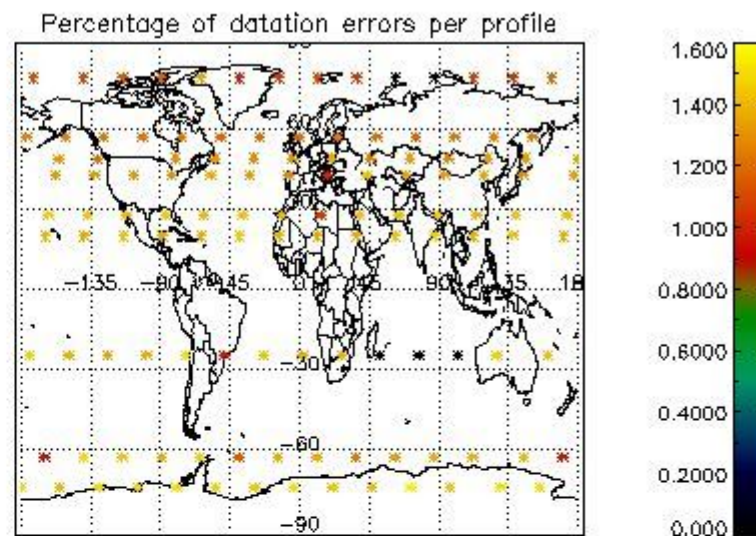
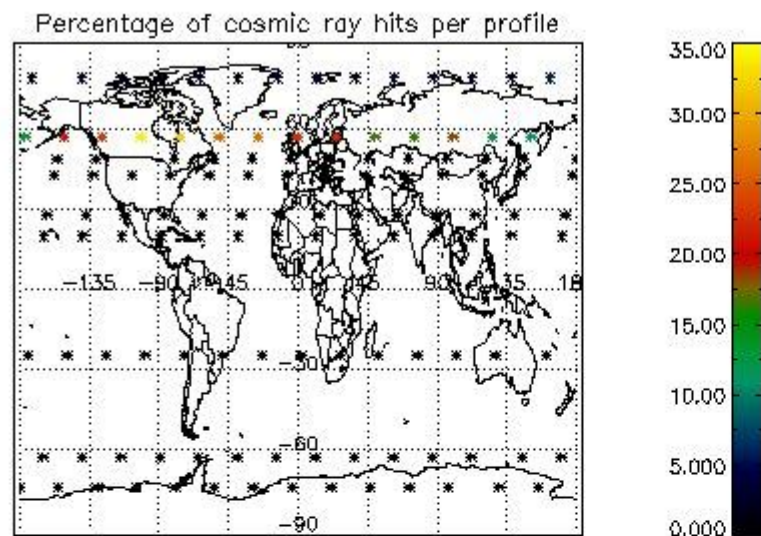
Percentage of star falling outside central band per profile



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

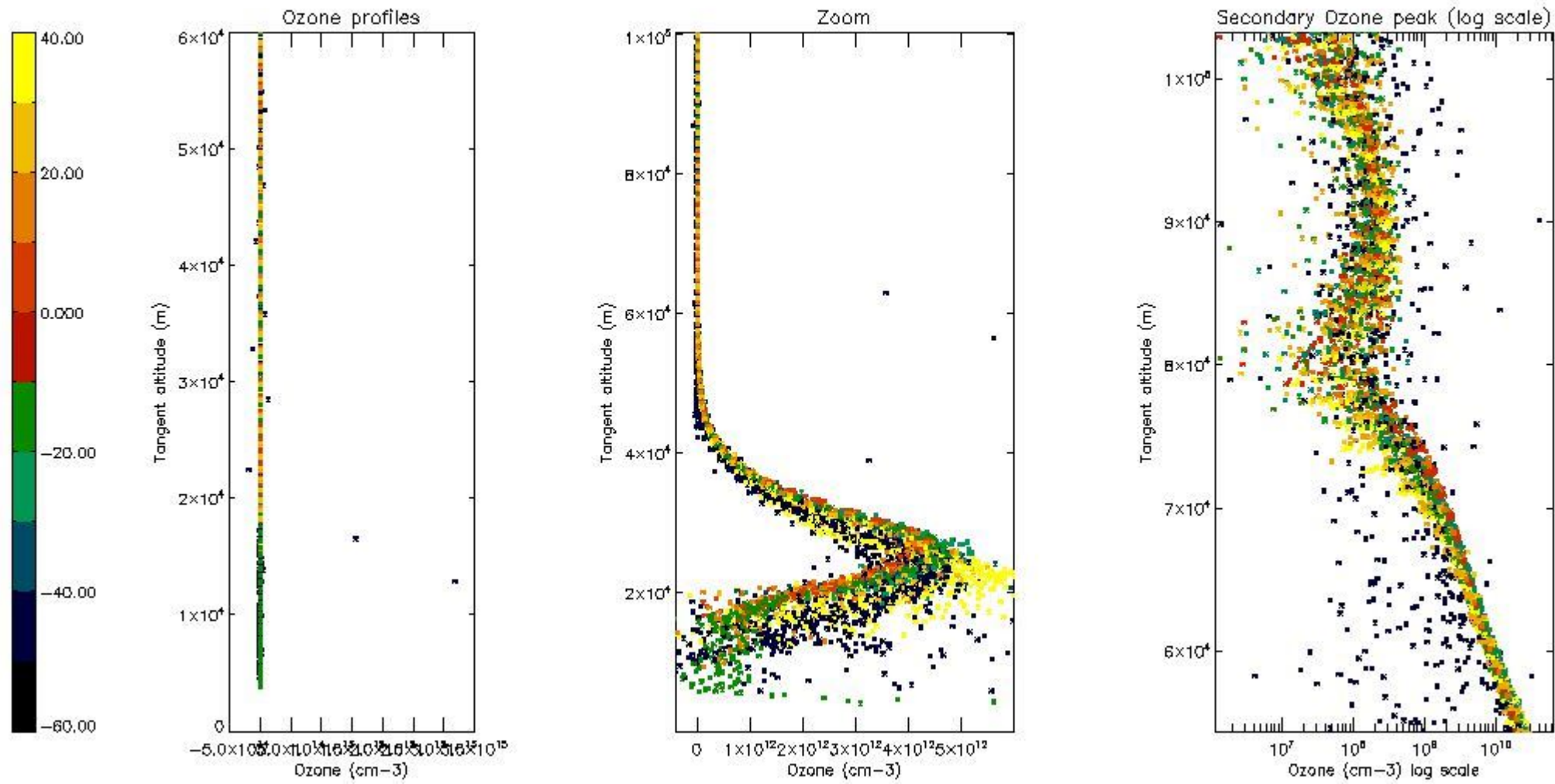
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	41
STD < 20	23

STD < 10	18
STD < 5	11

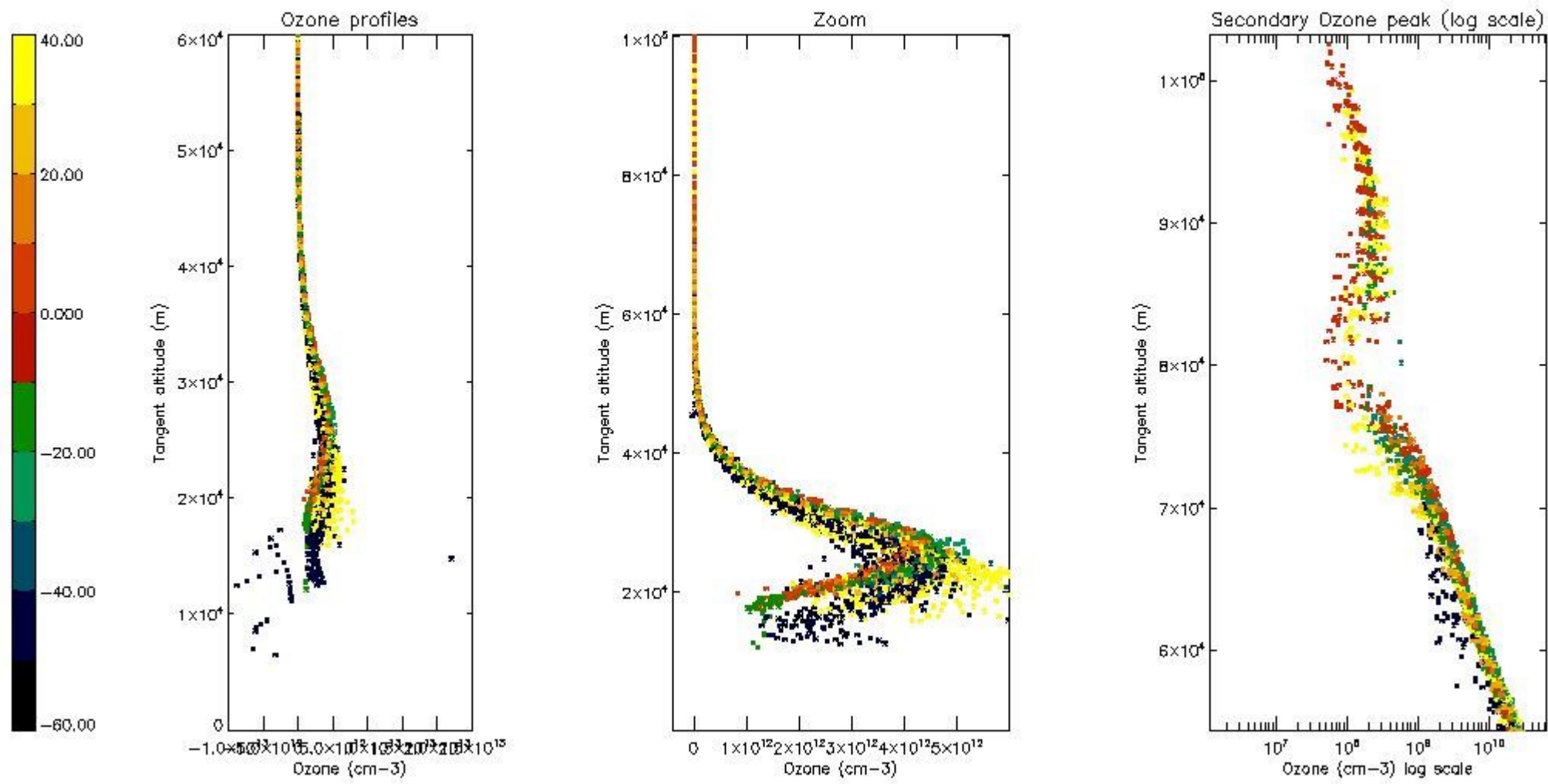
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



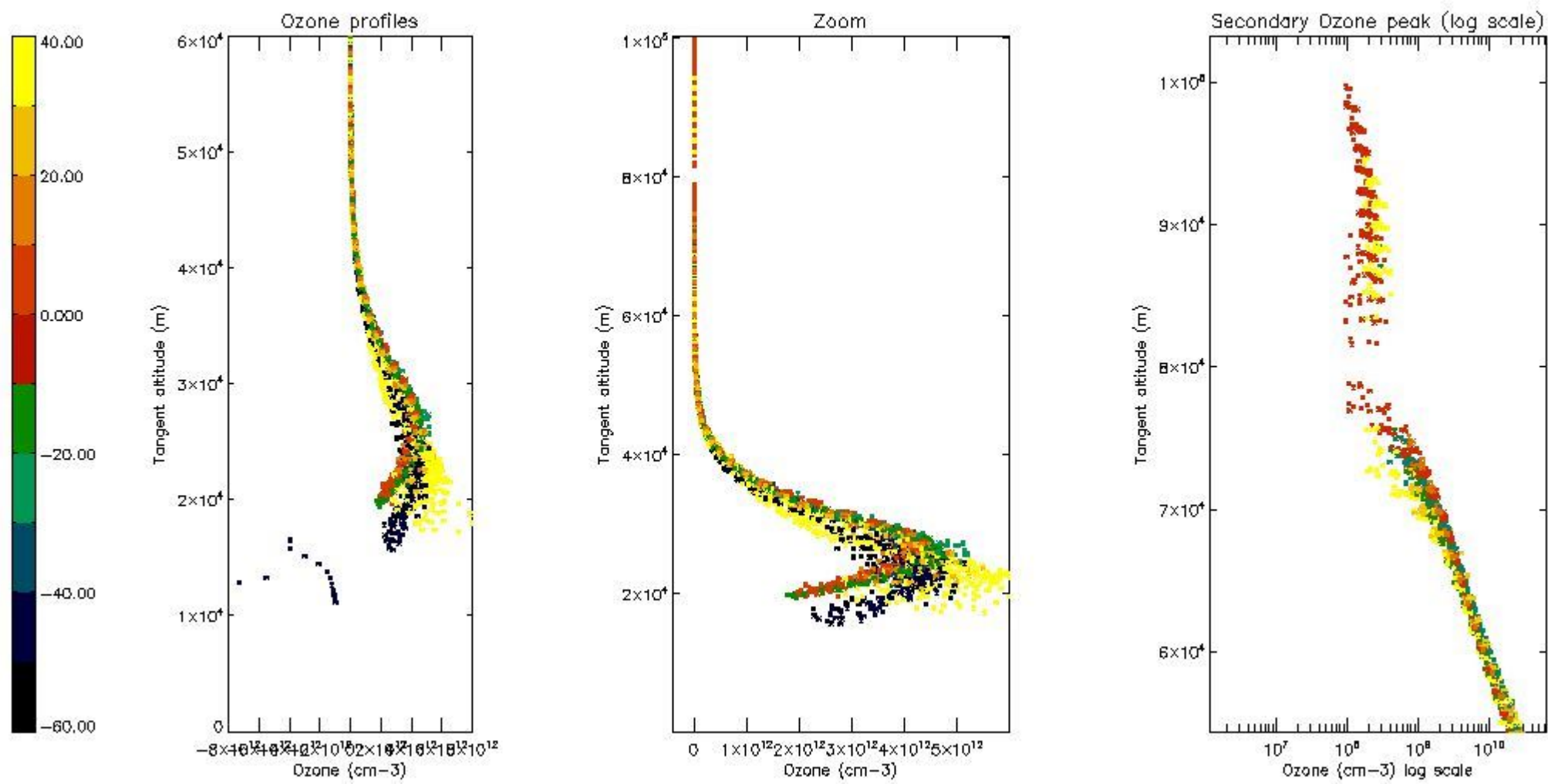
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



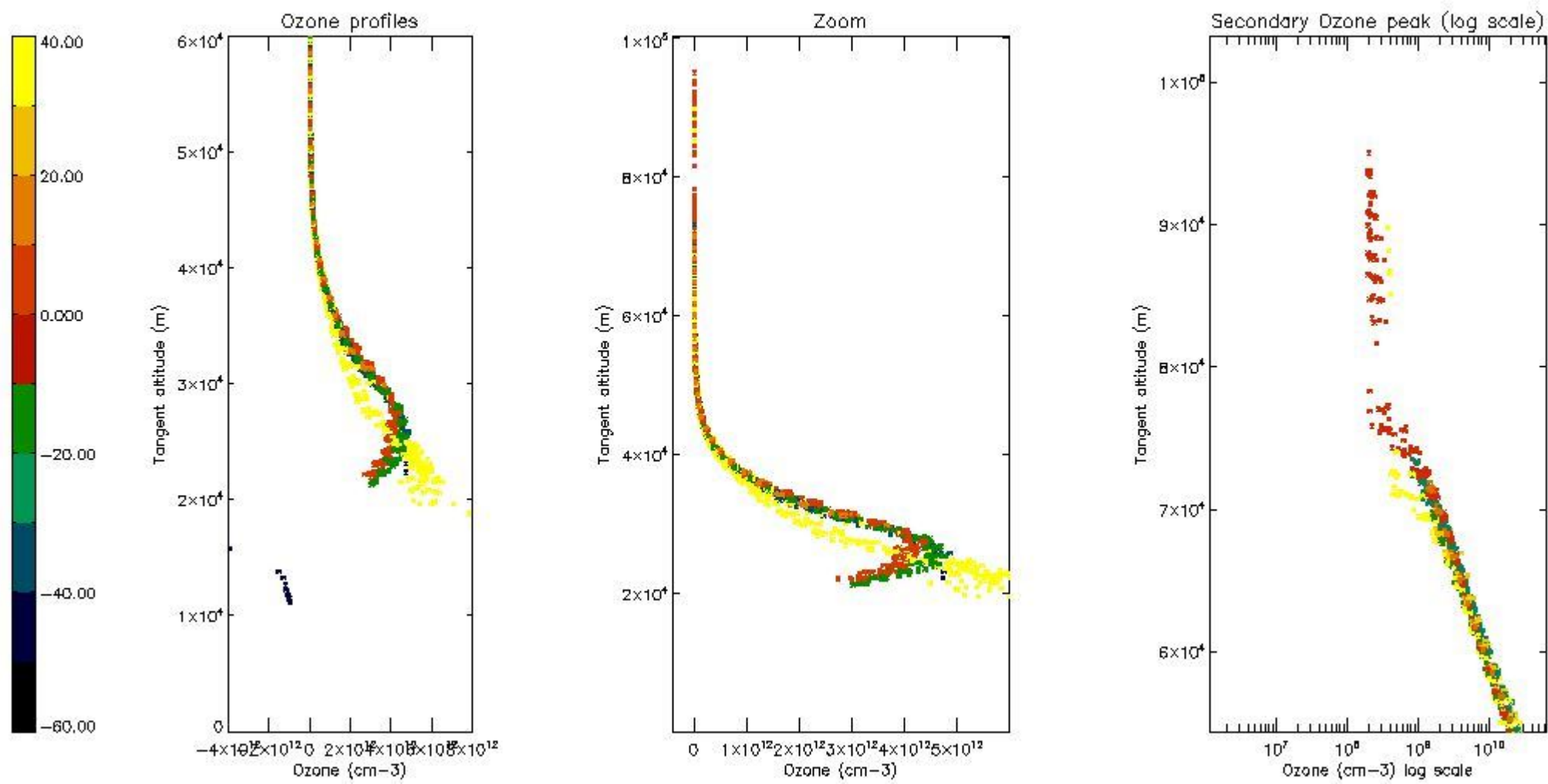
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



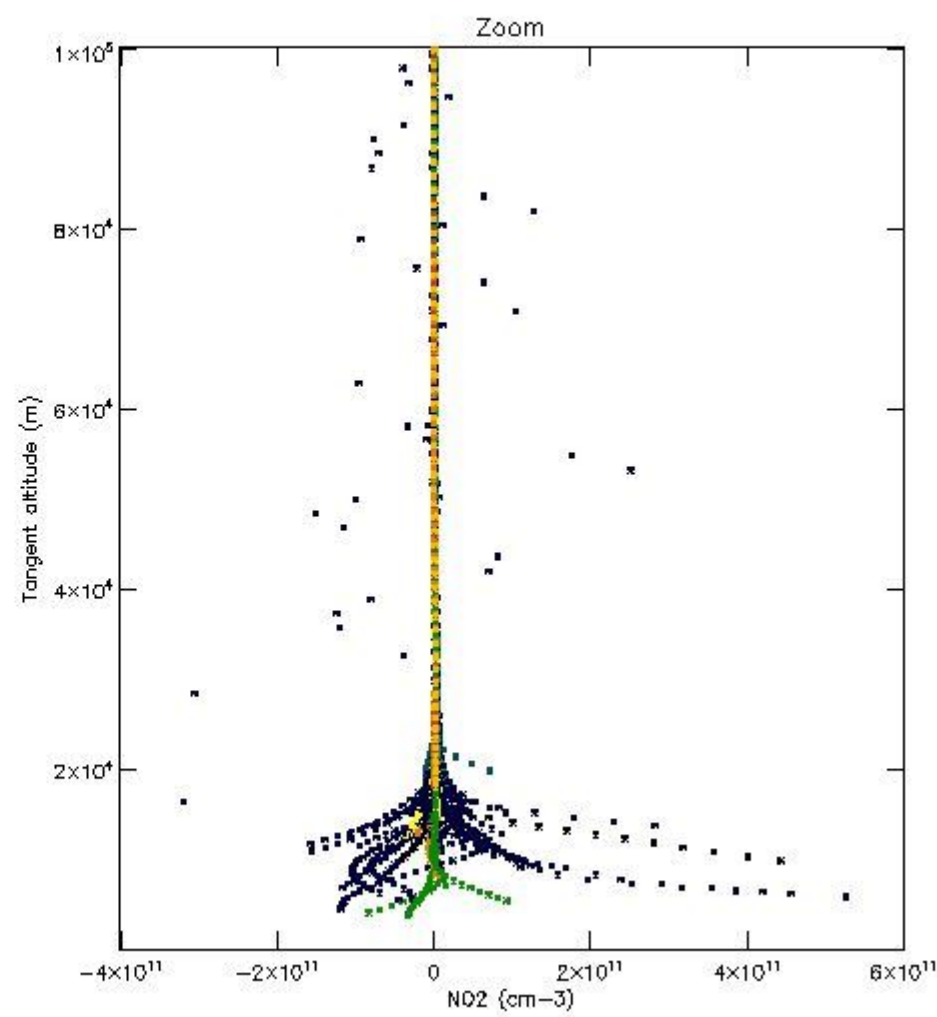
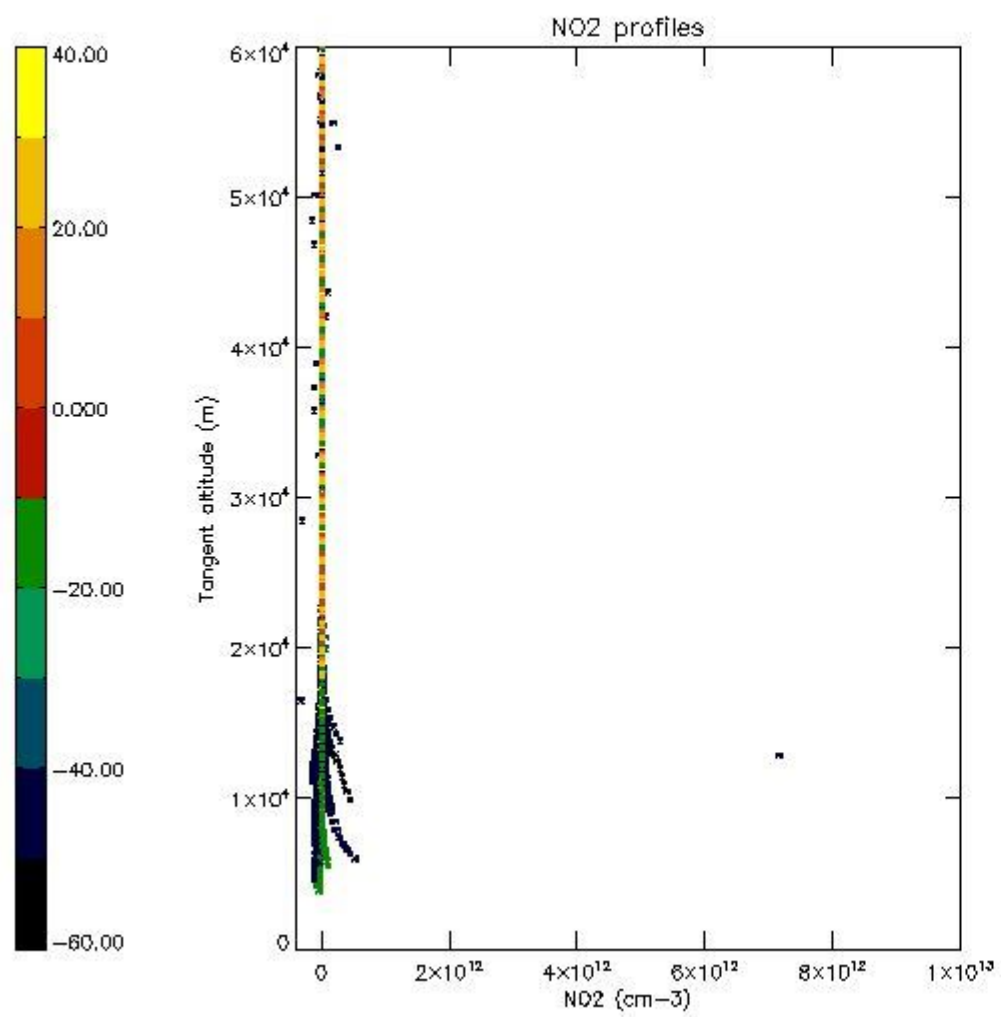
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



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

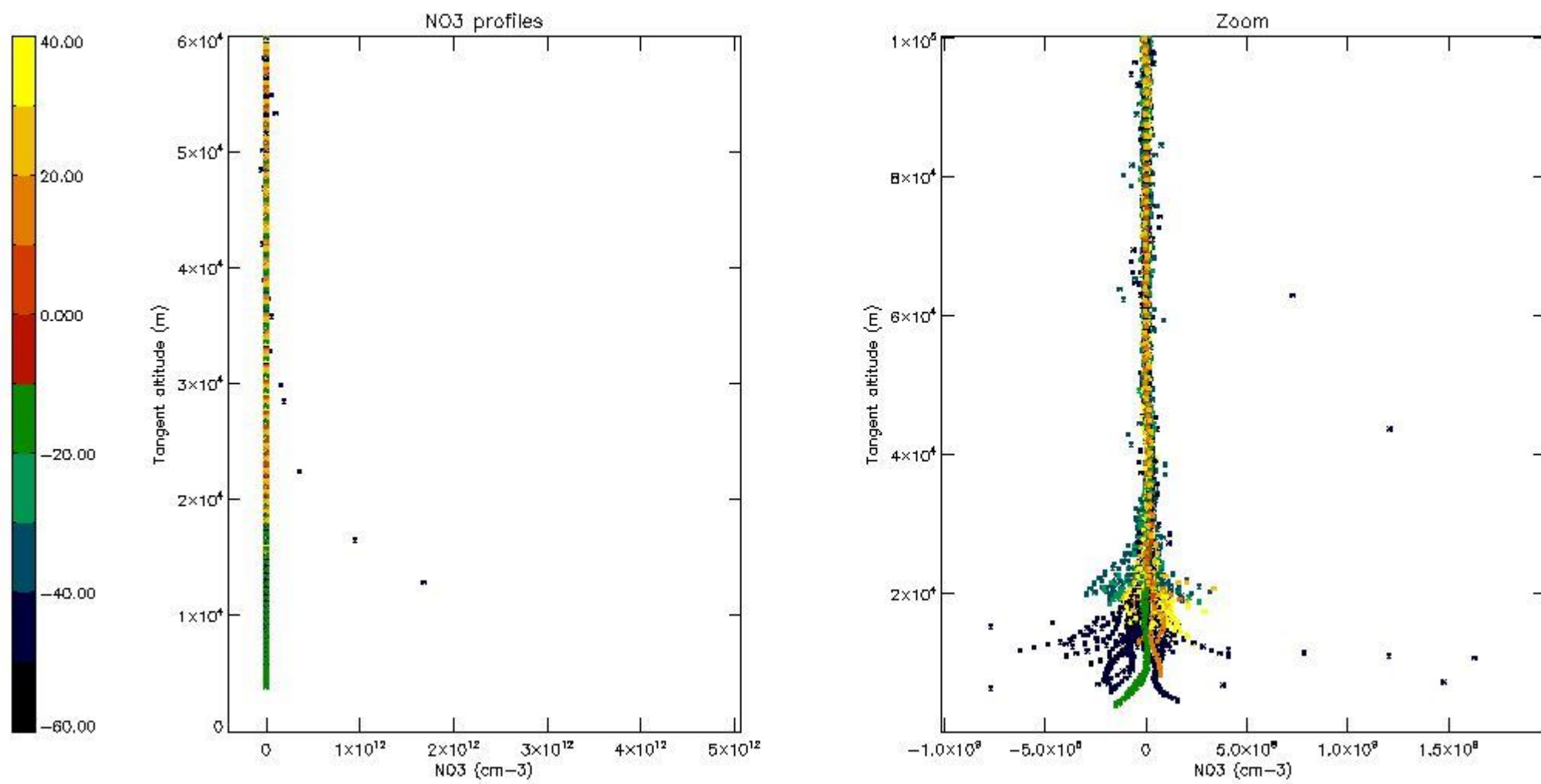
The colorbar represents the latitude.



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

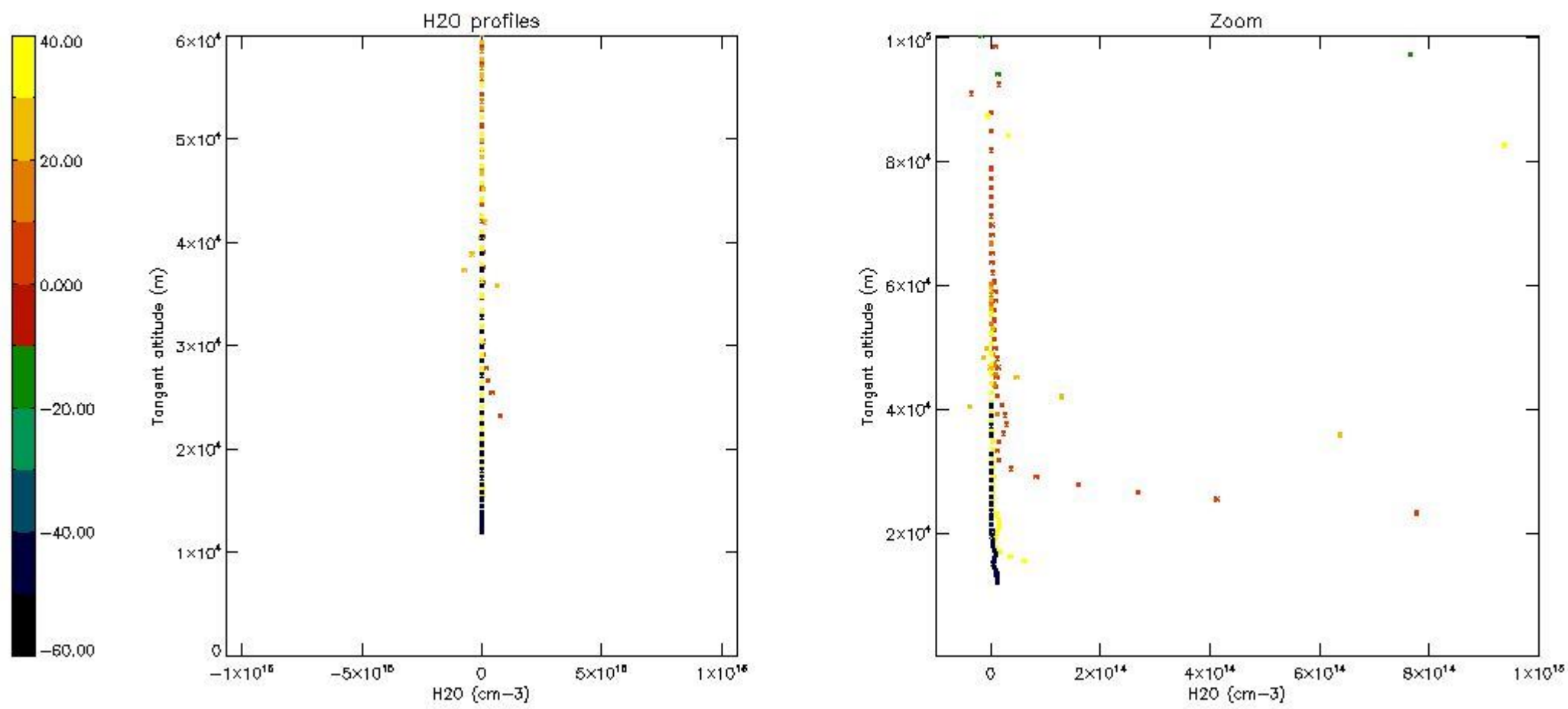
The colorbar represents the latitude.





*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)*

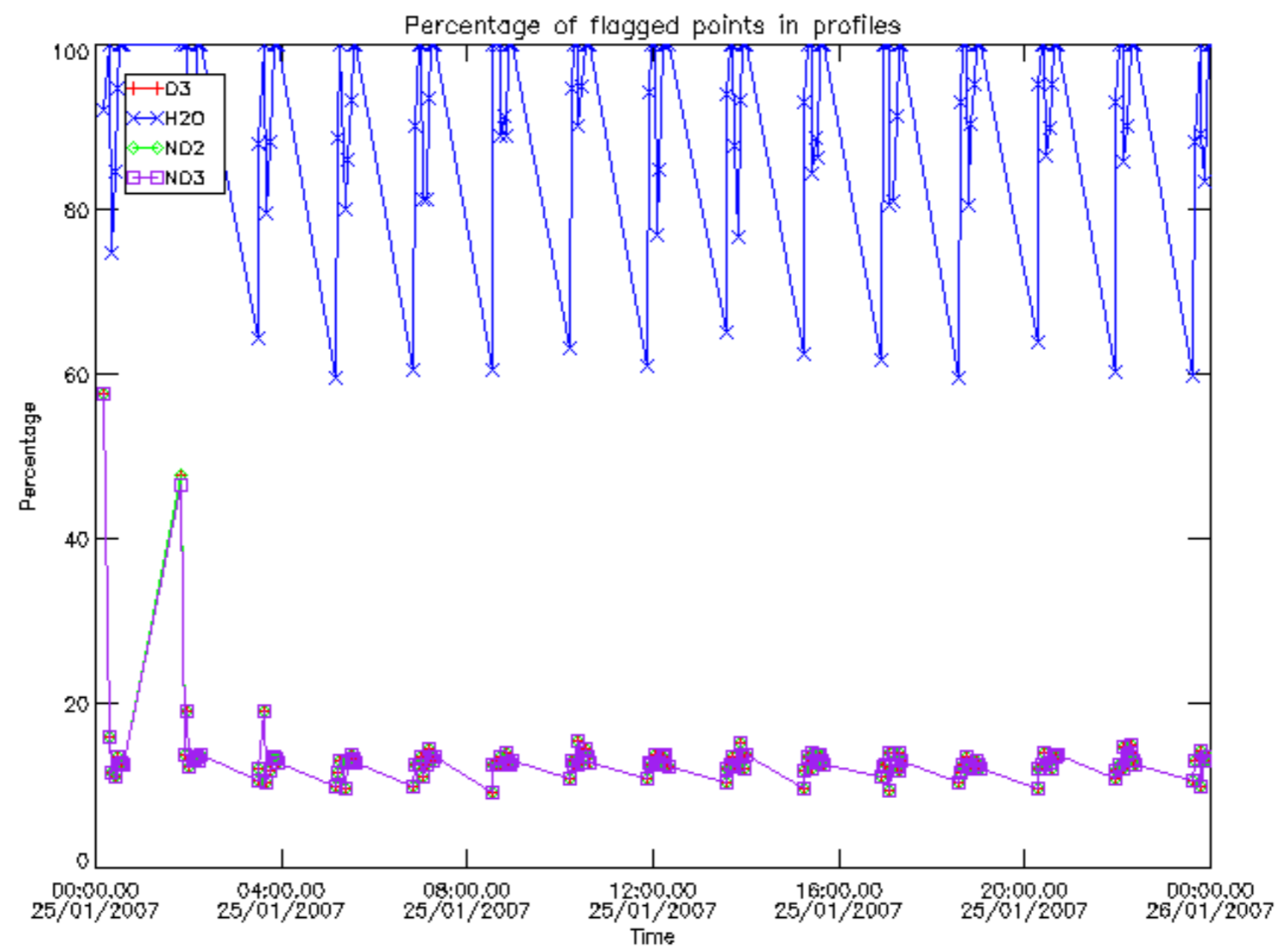
The colorbar represents the latitude.



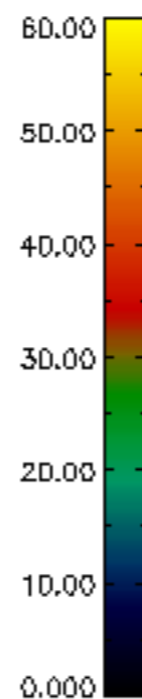
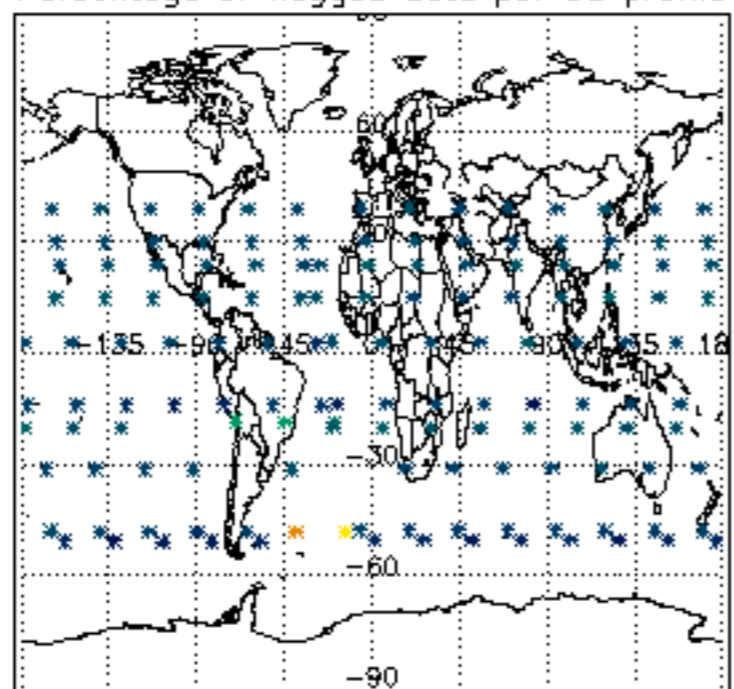
## 6. Auxiliary Data Files used for the production reported in section 2

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.

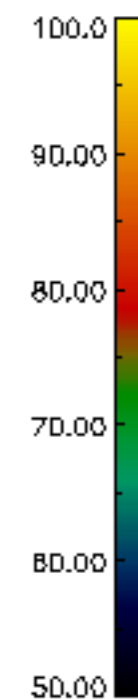
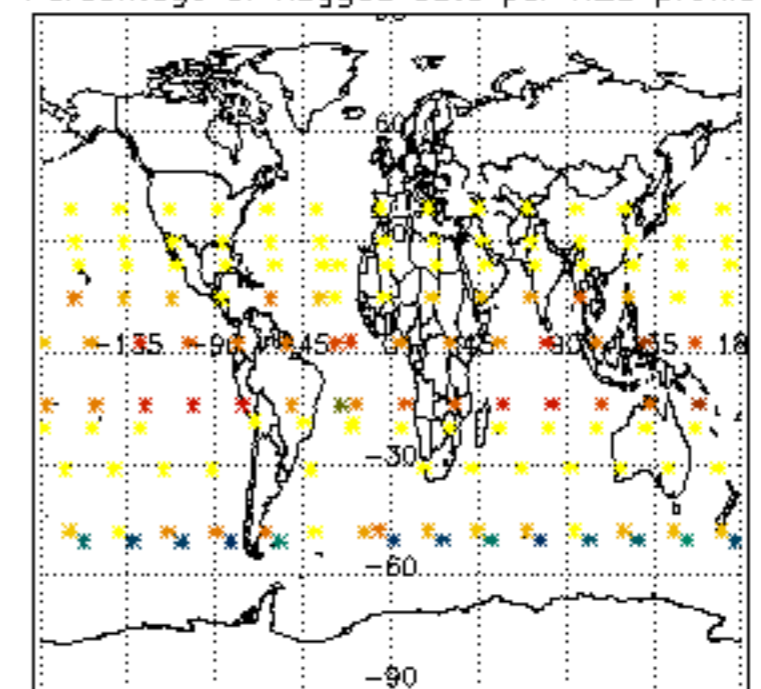
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	25-JAN-2007 00:04:10
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	25-JAN-2007 00:04:10
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	25-JAN-2007 00:04:10



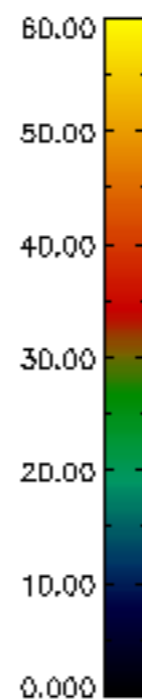
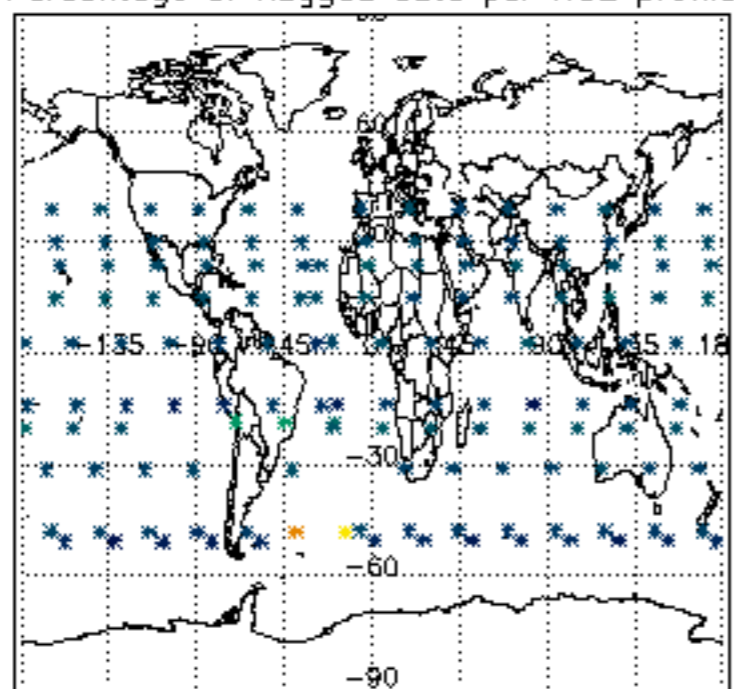
Percentage of flagged data per D3 profile



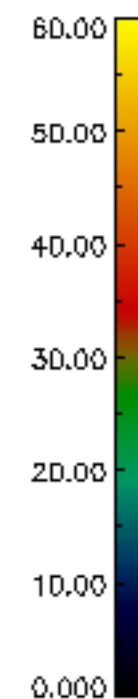
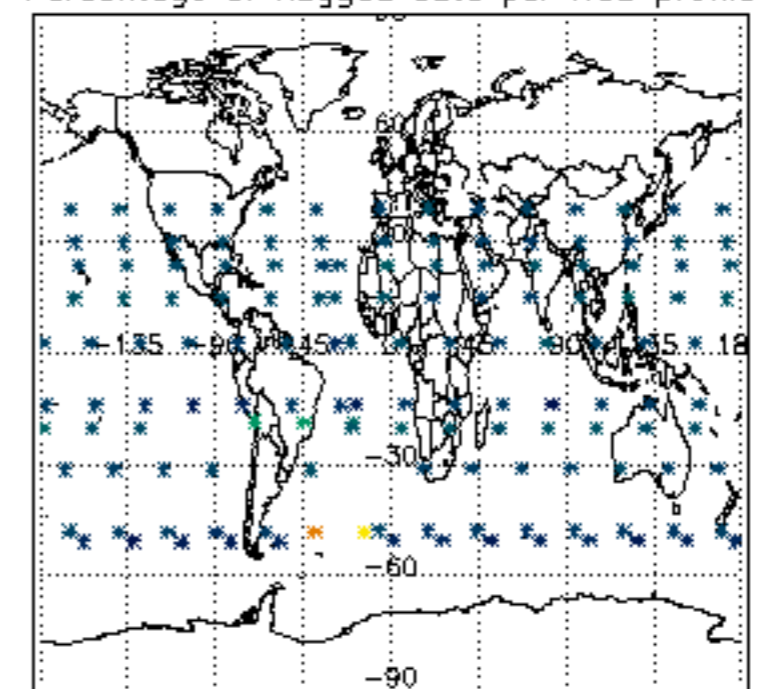
Percentage of flagged data per H2O profile

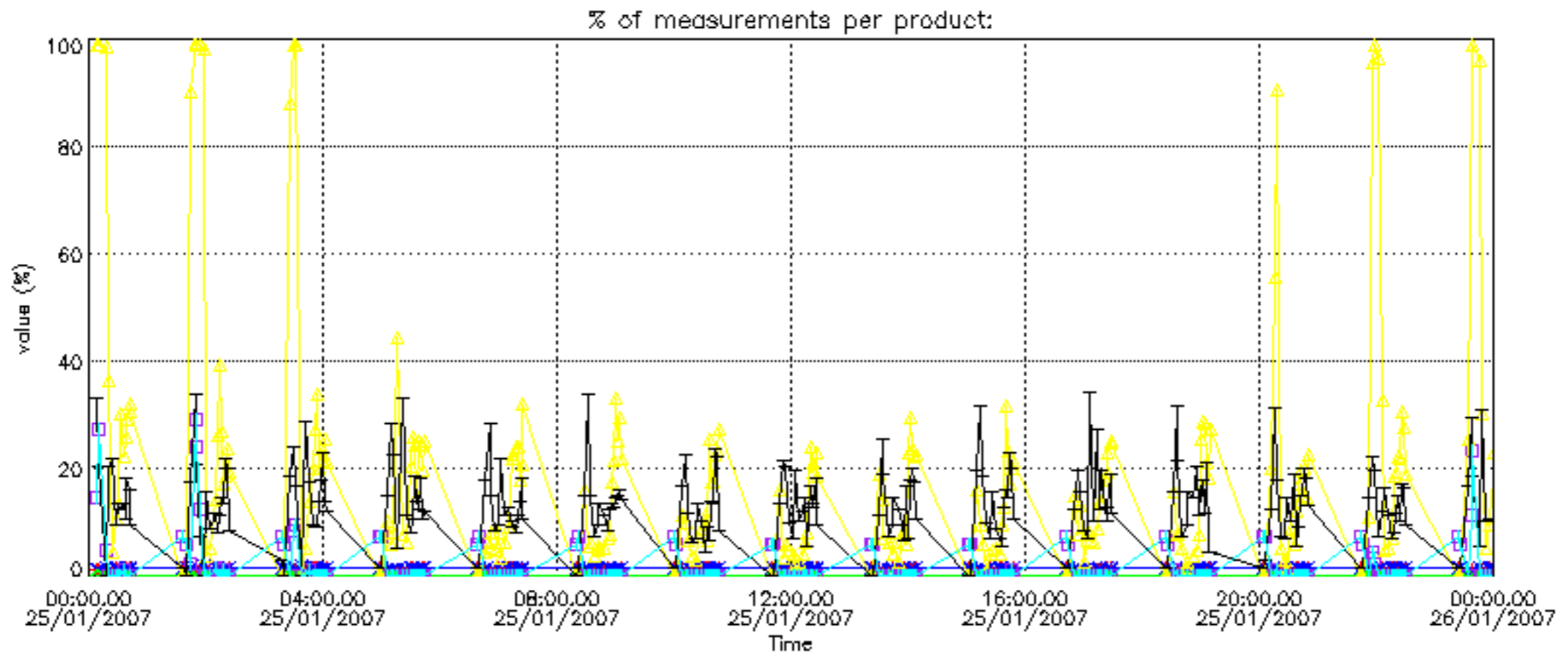


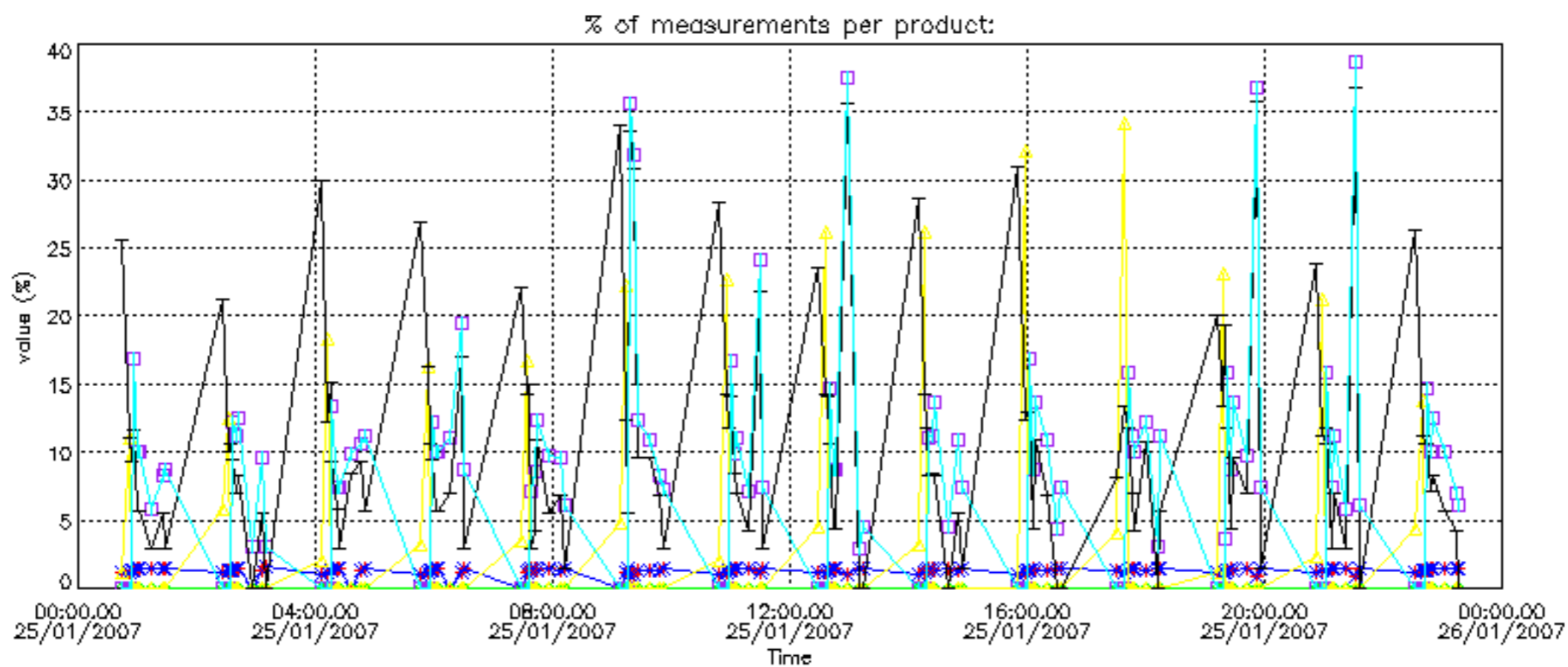
Percentage of flagged data per NO2 profile



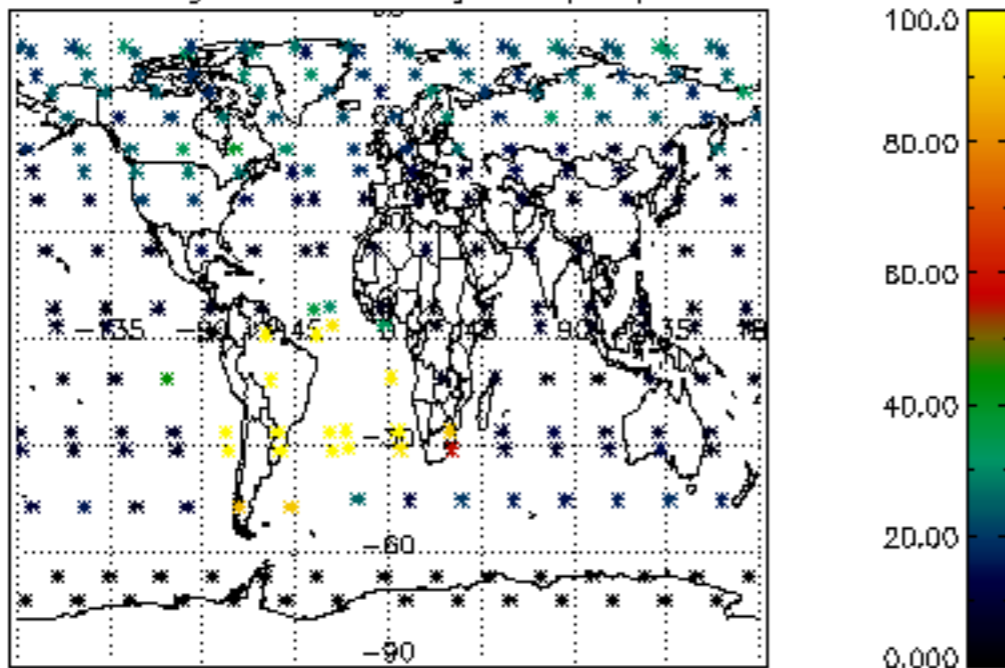
Percentage of flagged data per NO3 profile



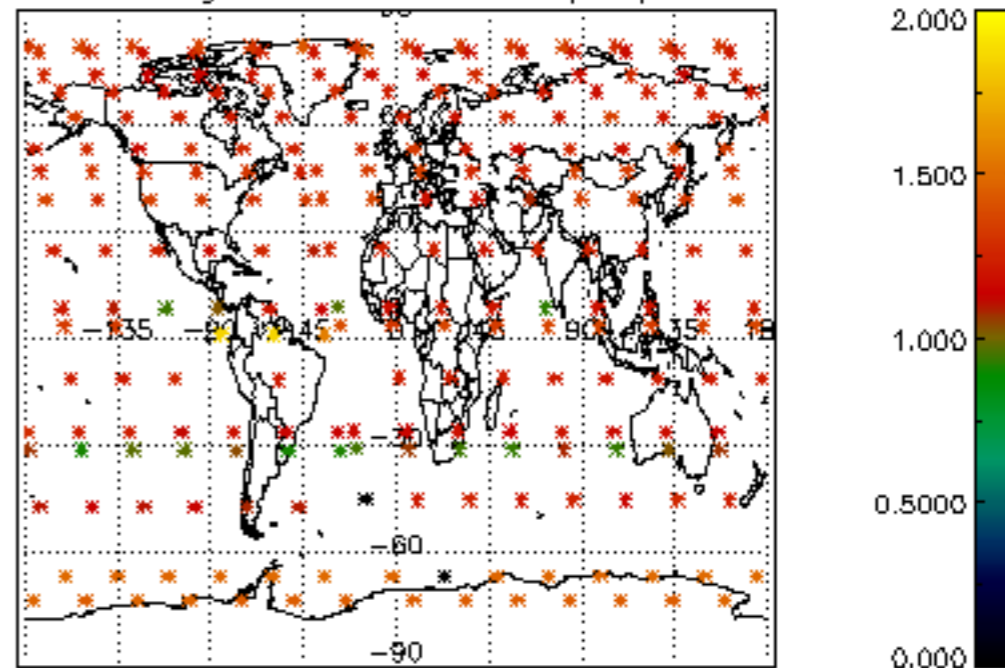




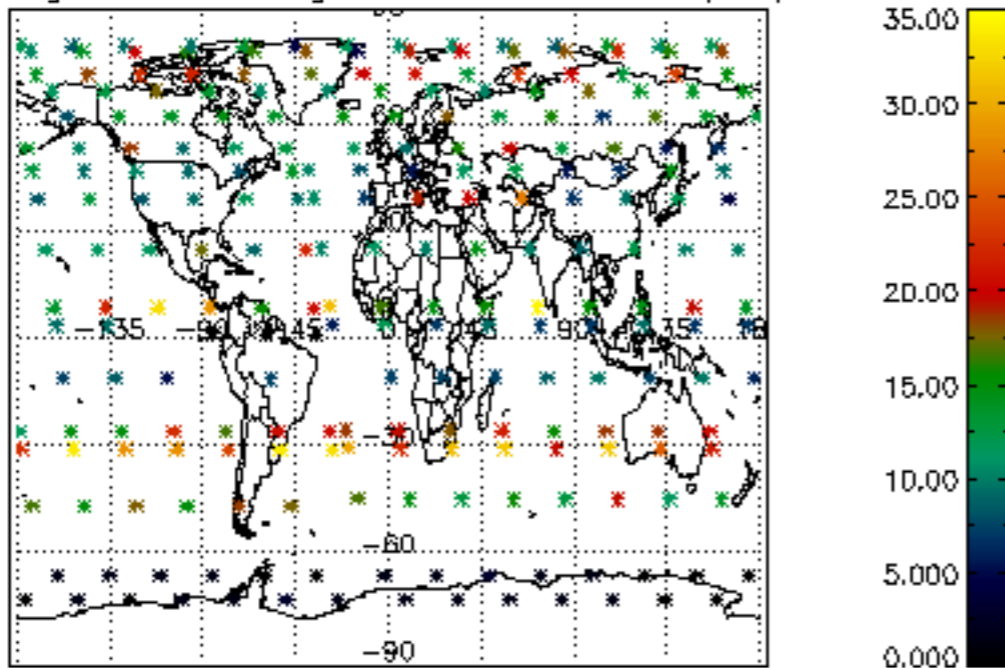
Percentage of cosmic ray hits per profile



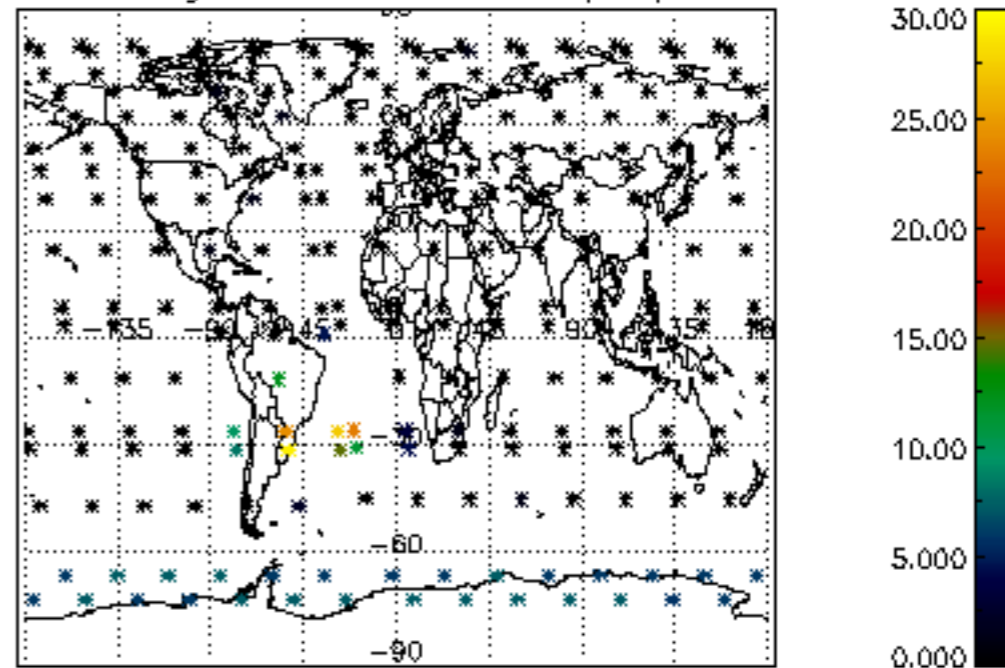
Percentage of datation errors per profile



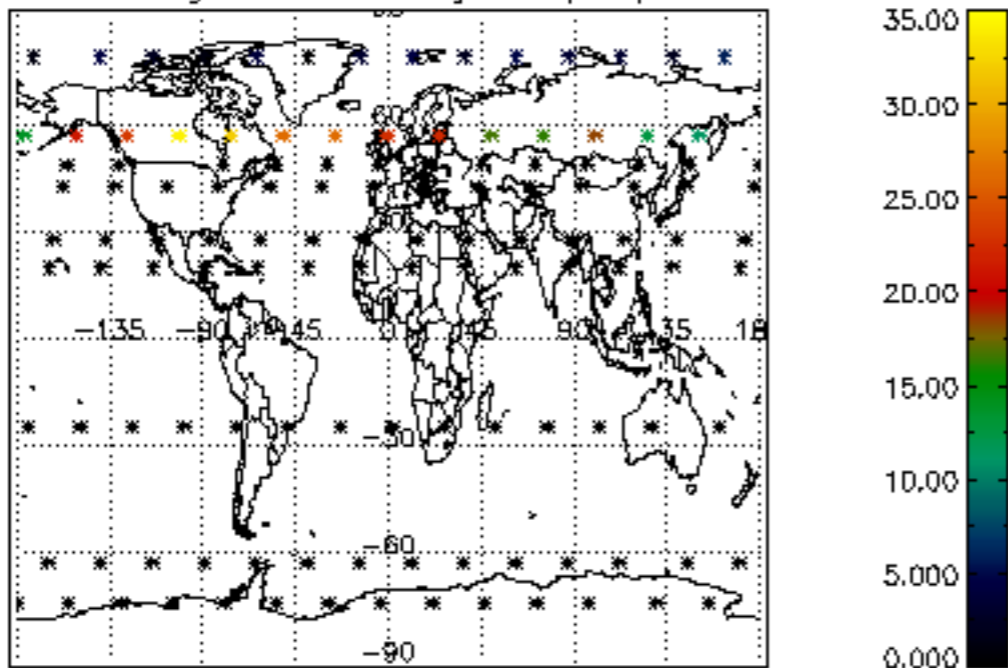
Percentage of star falling outside central band per profile



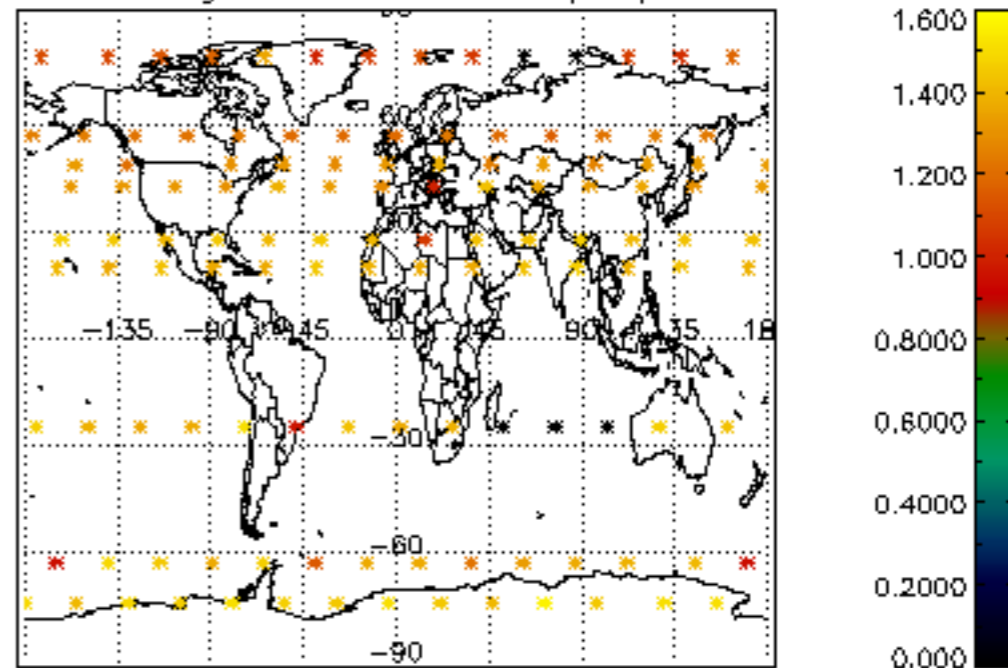
Percentage of saturation errors per profile



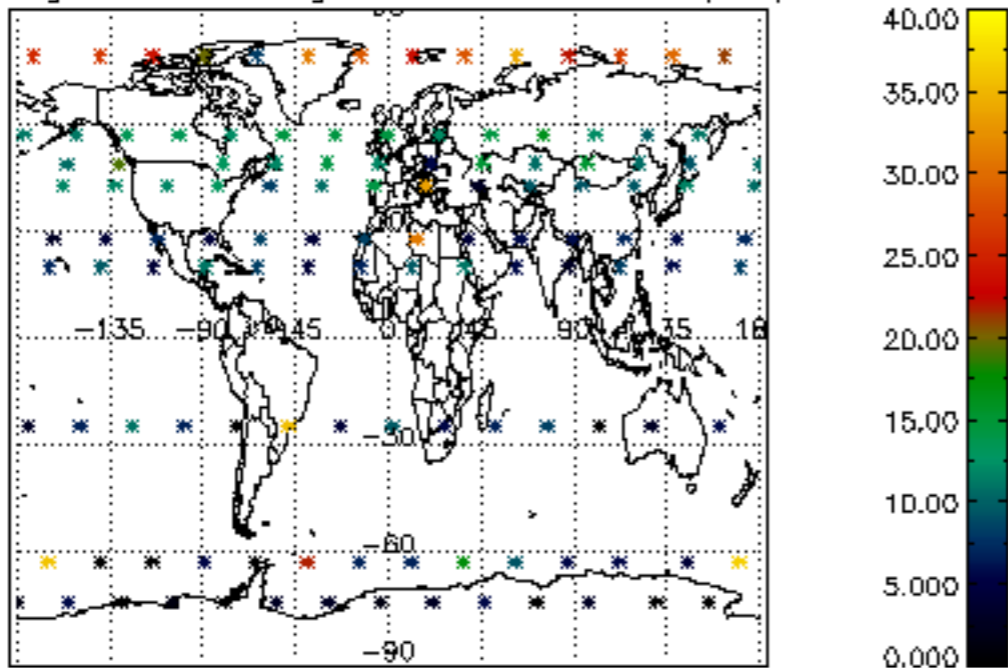
Percentage of cosmic ray hits per profile



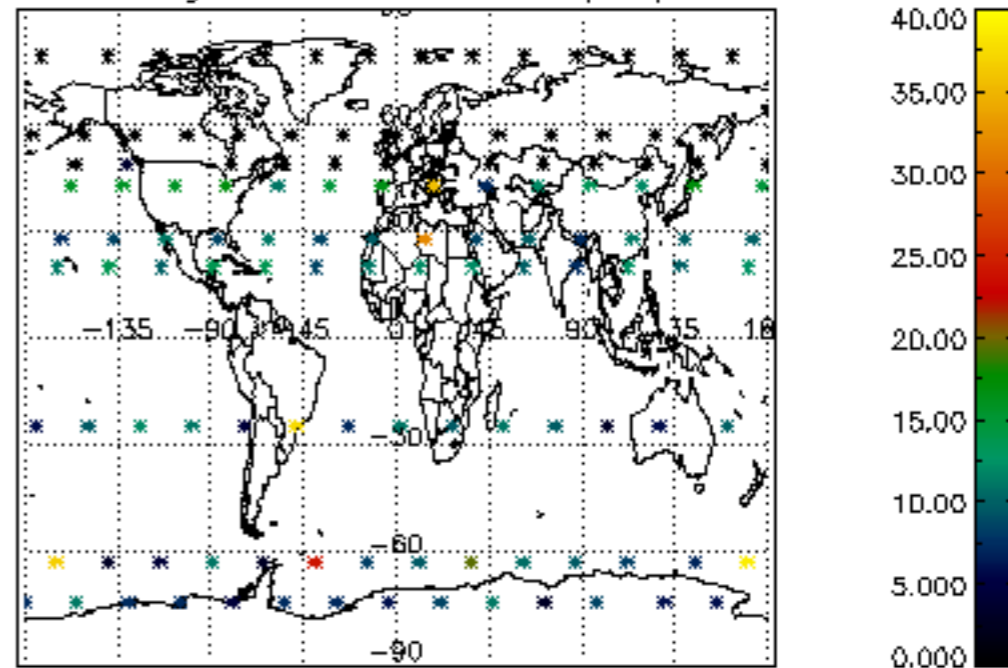
Percentage of datation errors per profile



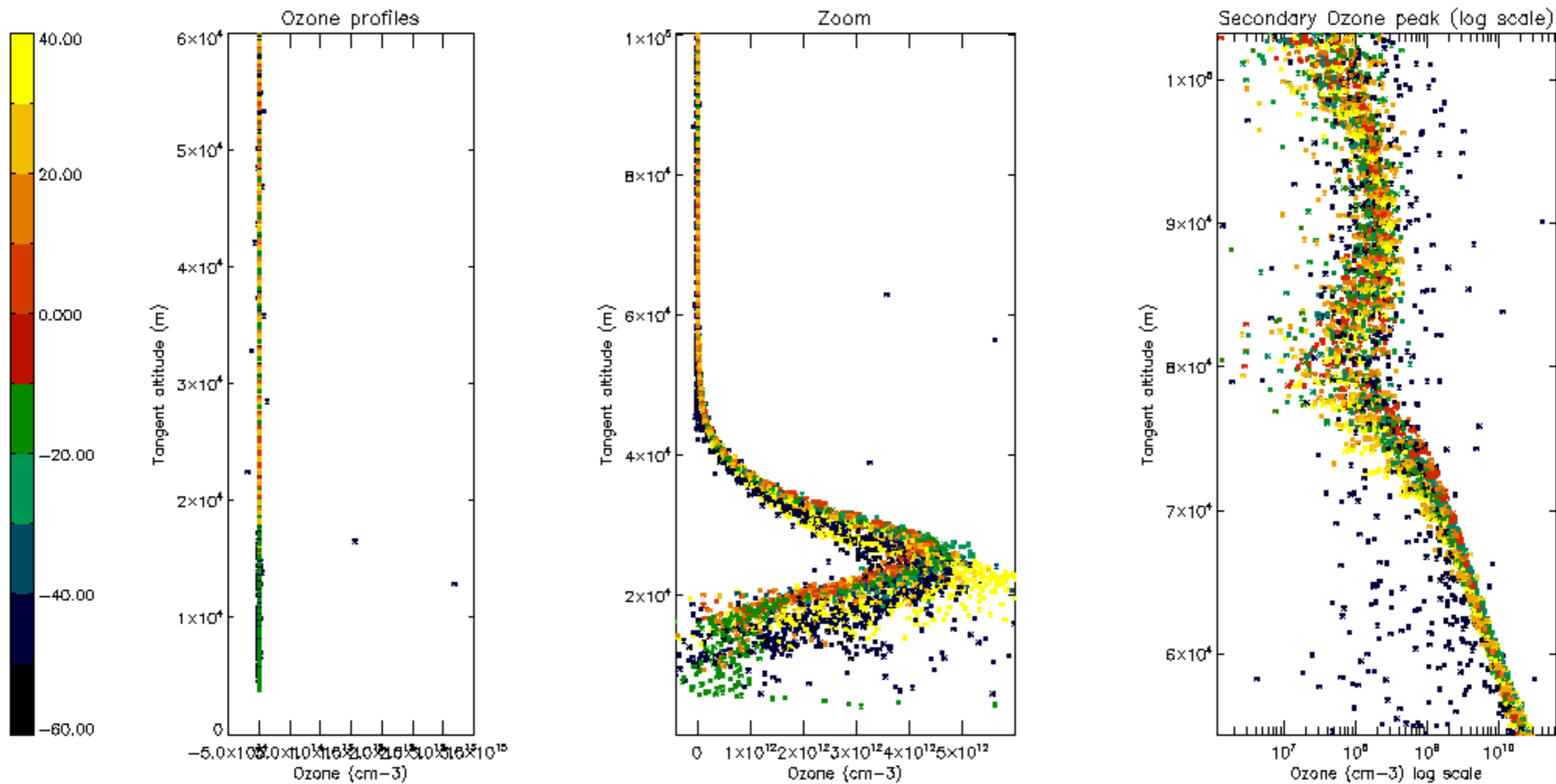
Percentage of star falling outside central band per profile

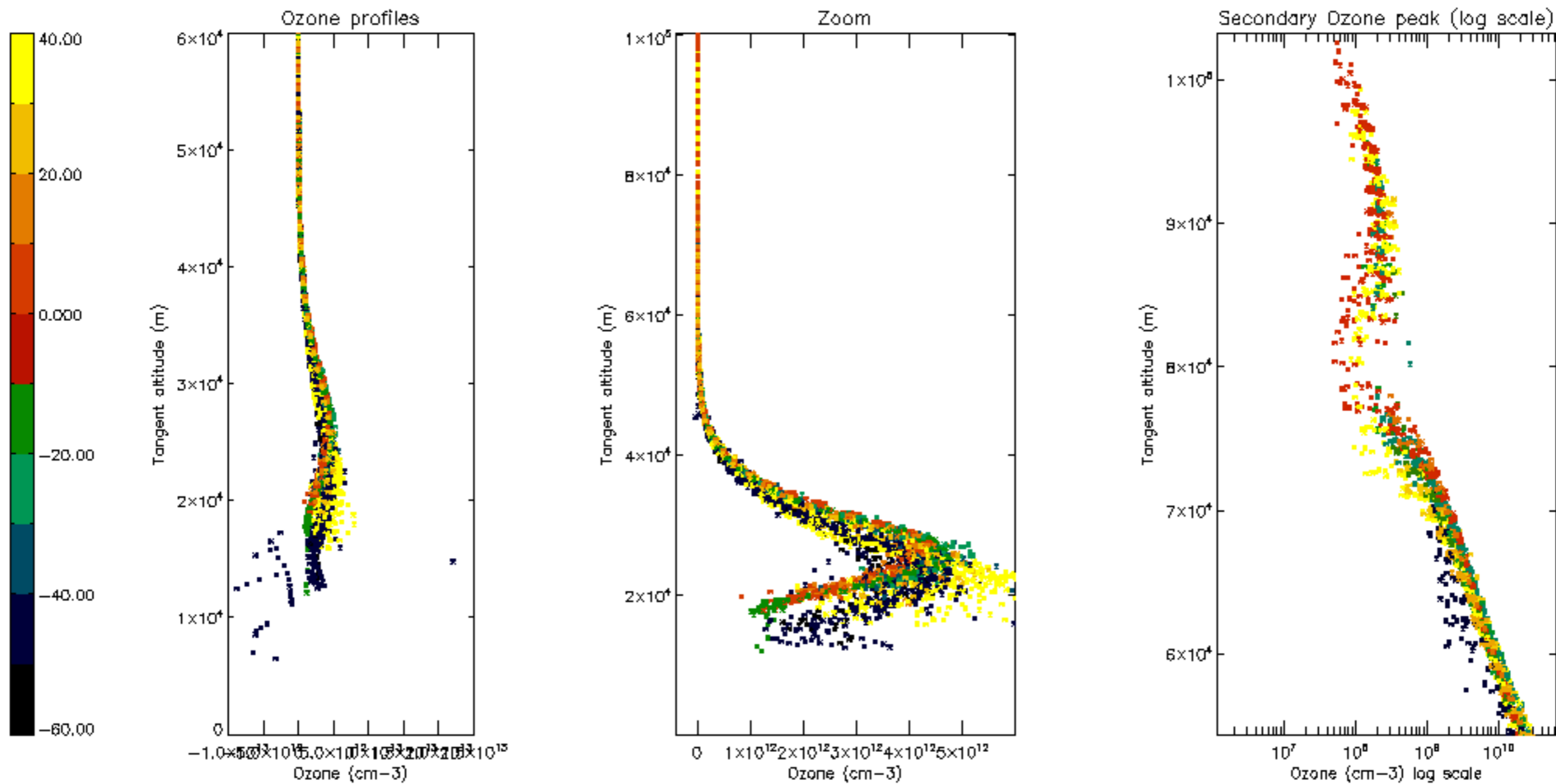


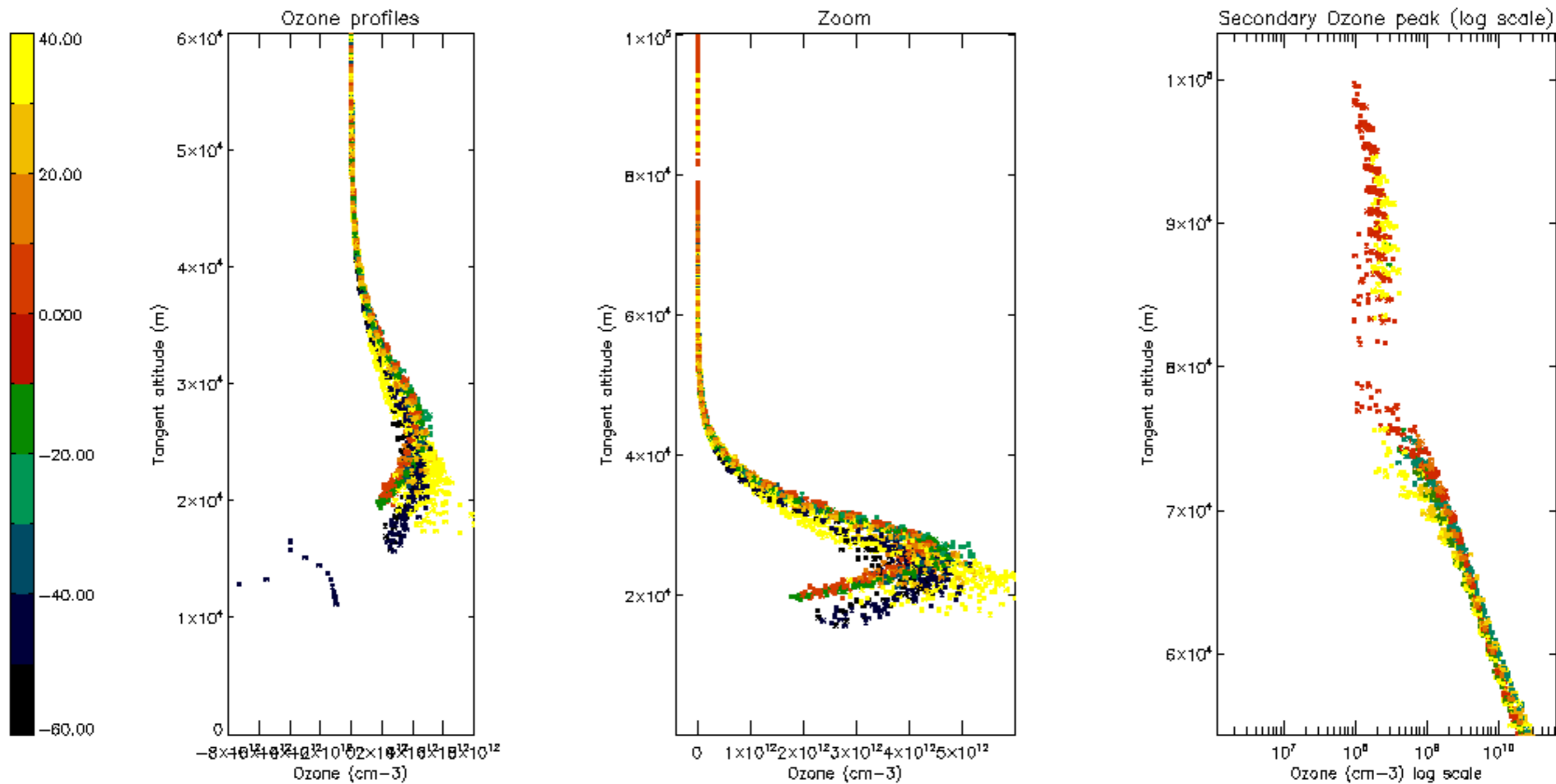
Percentage of saturation errors per profile

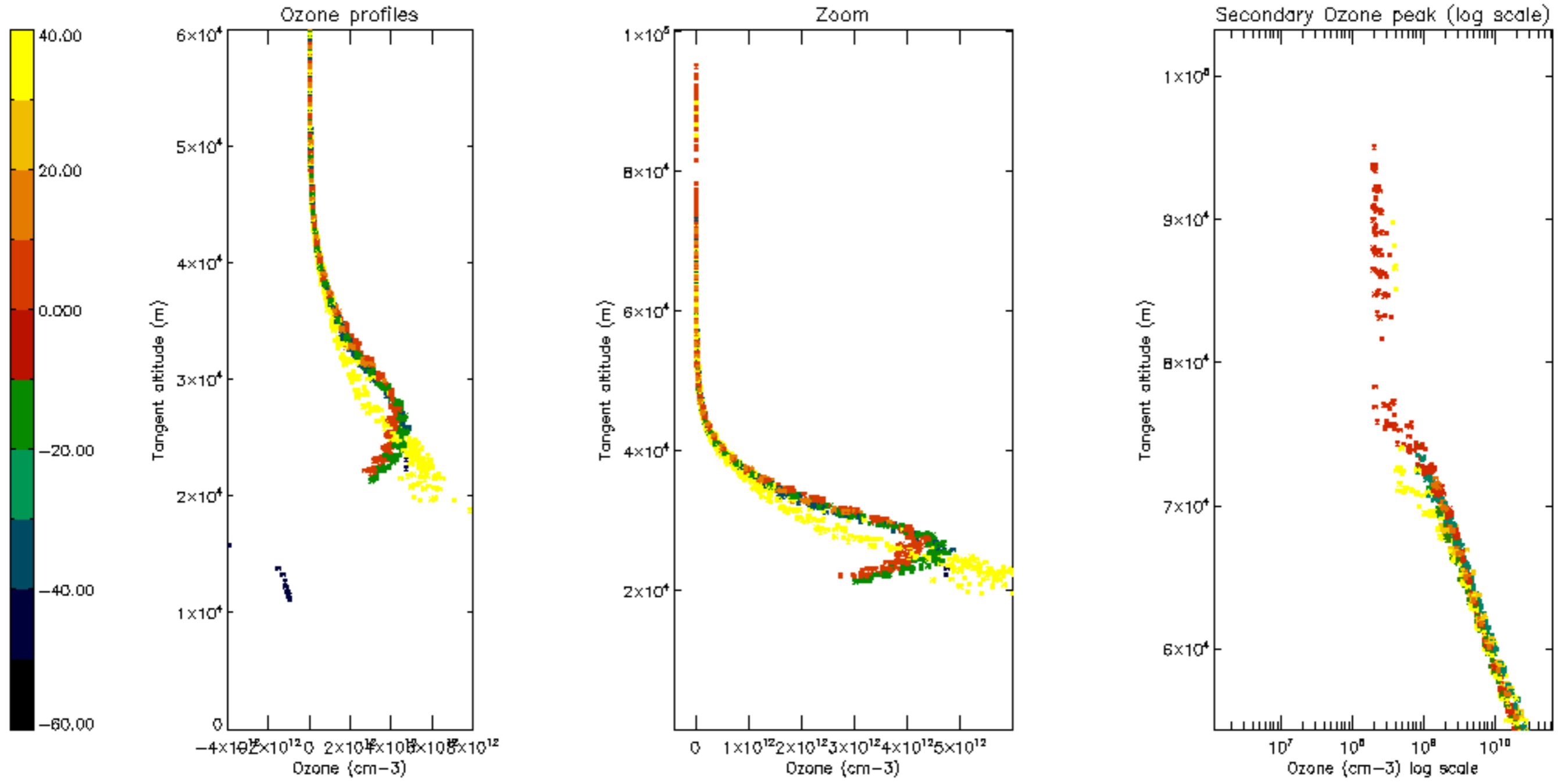


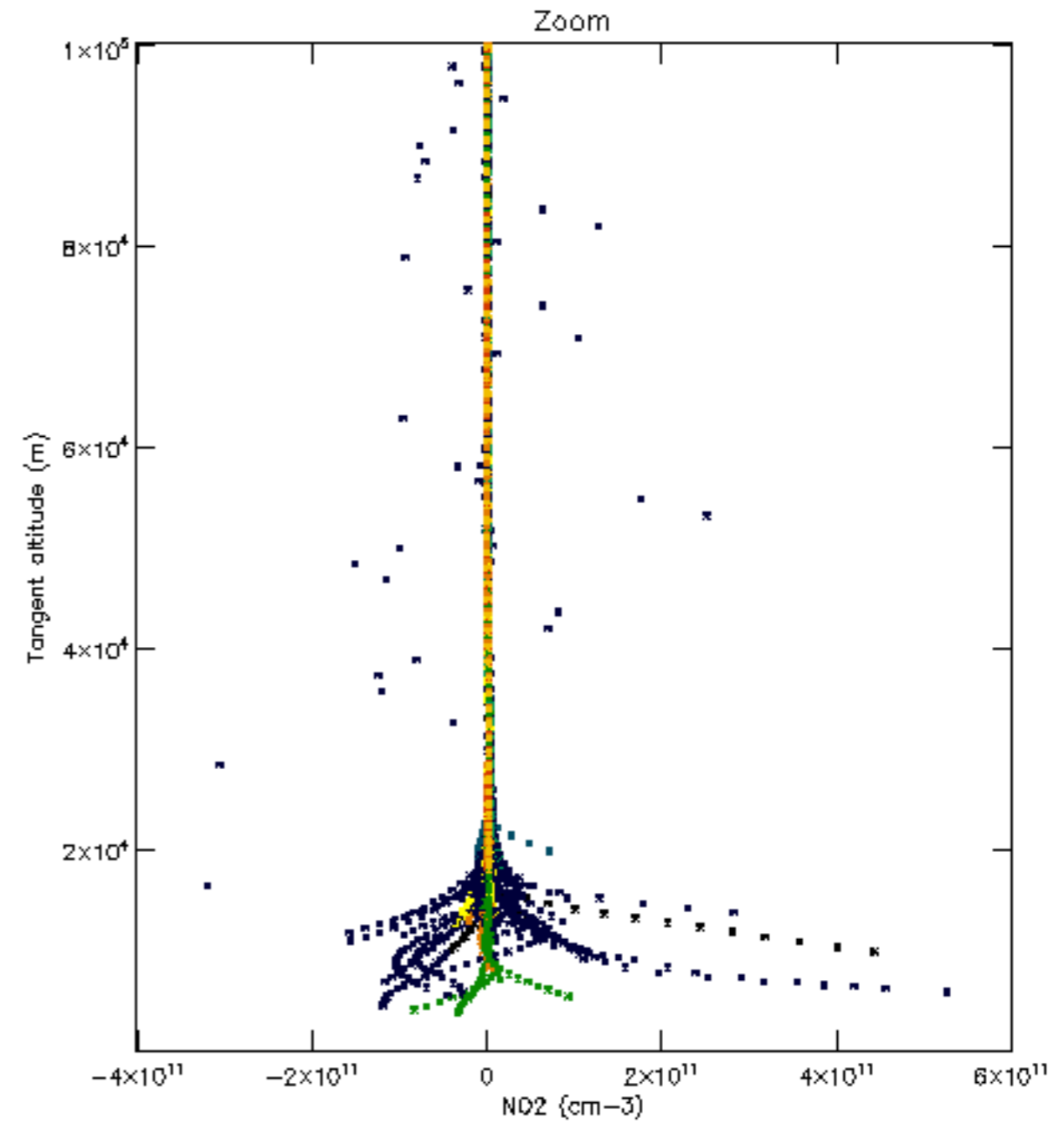
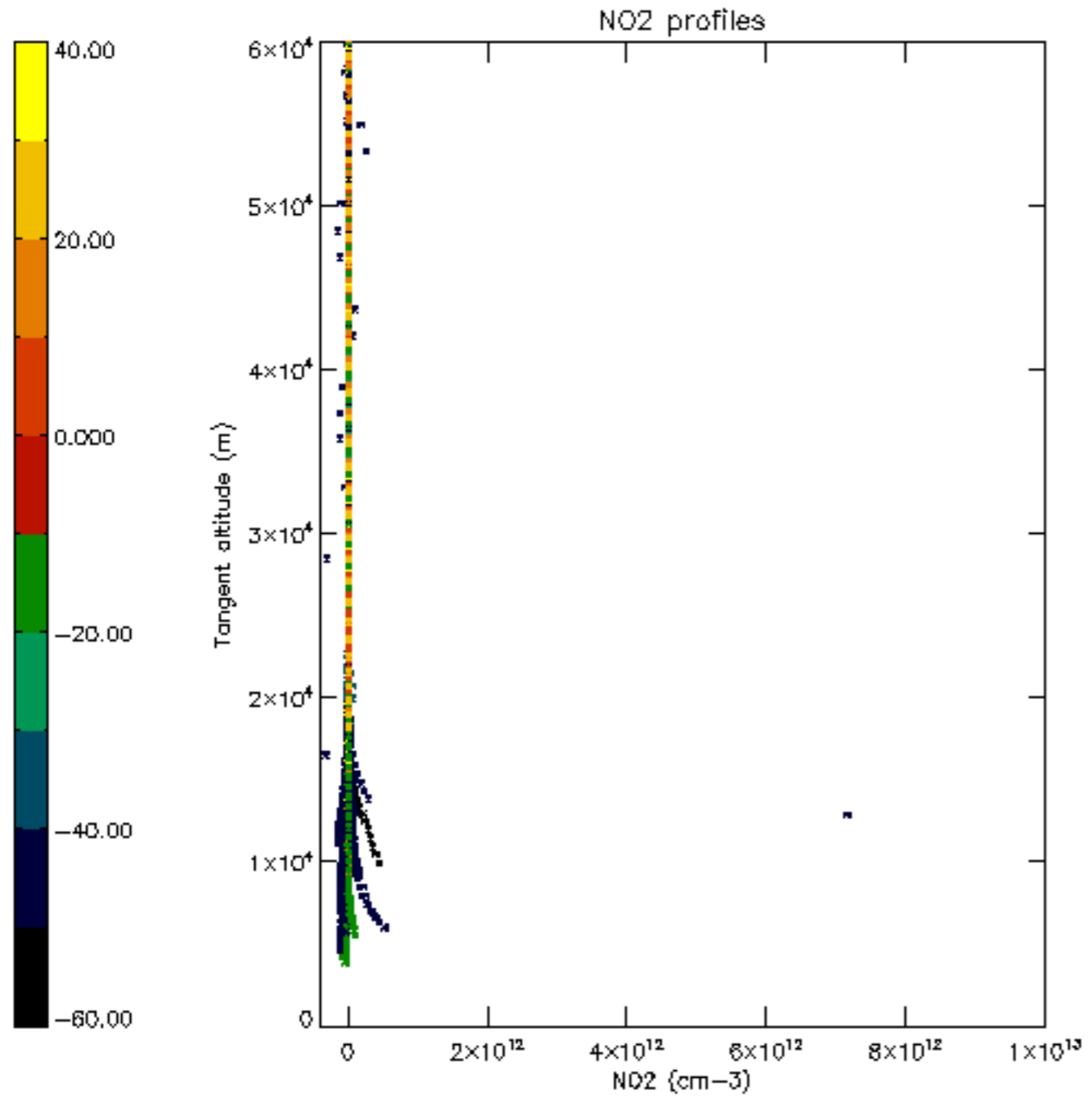


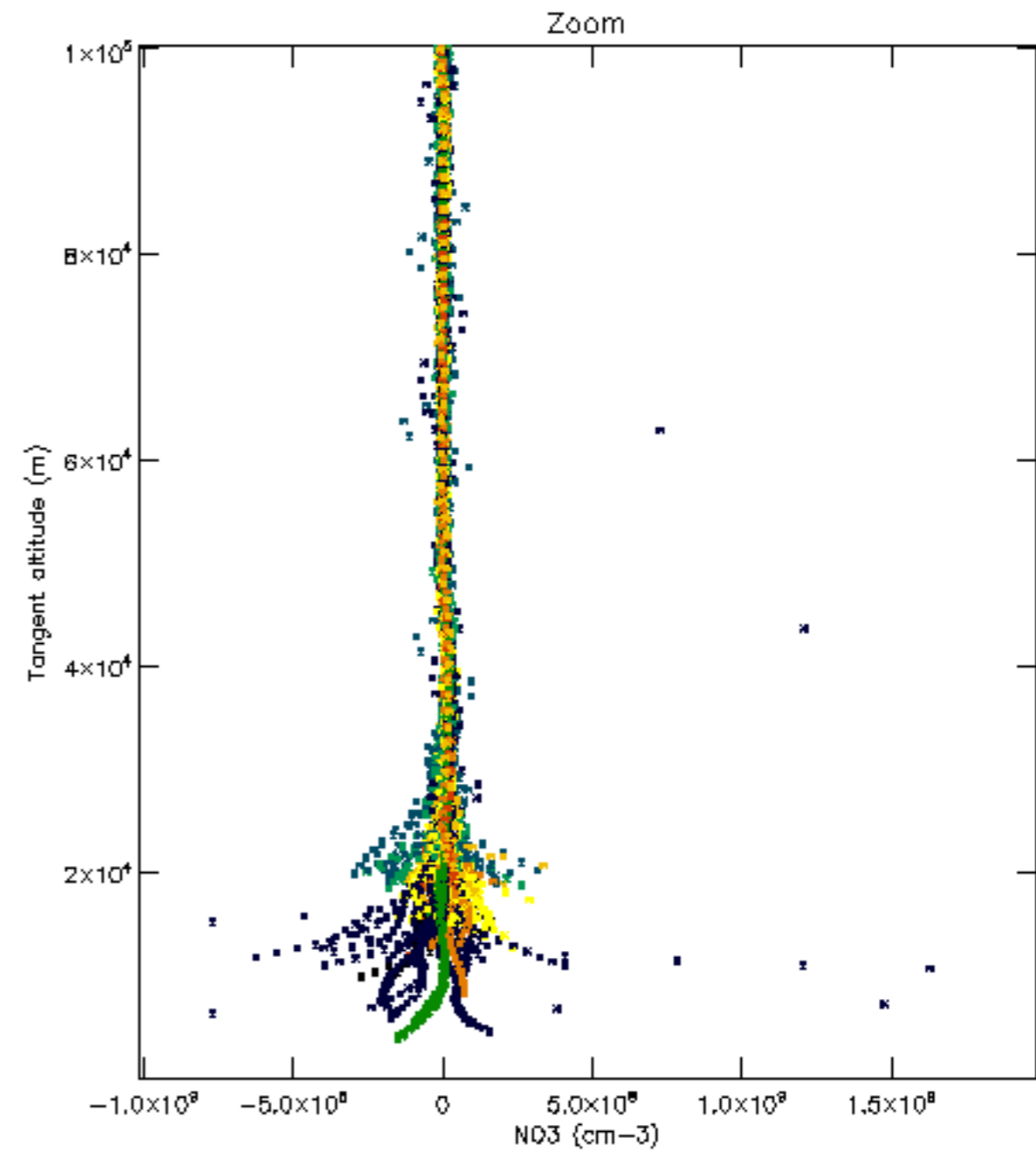
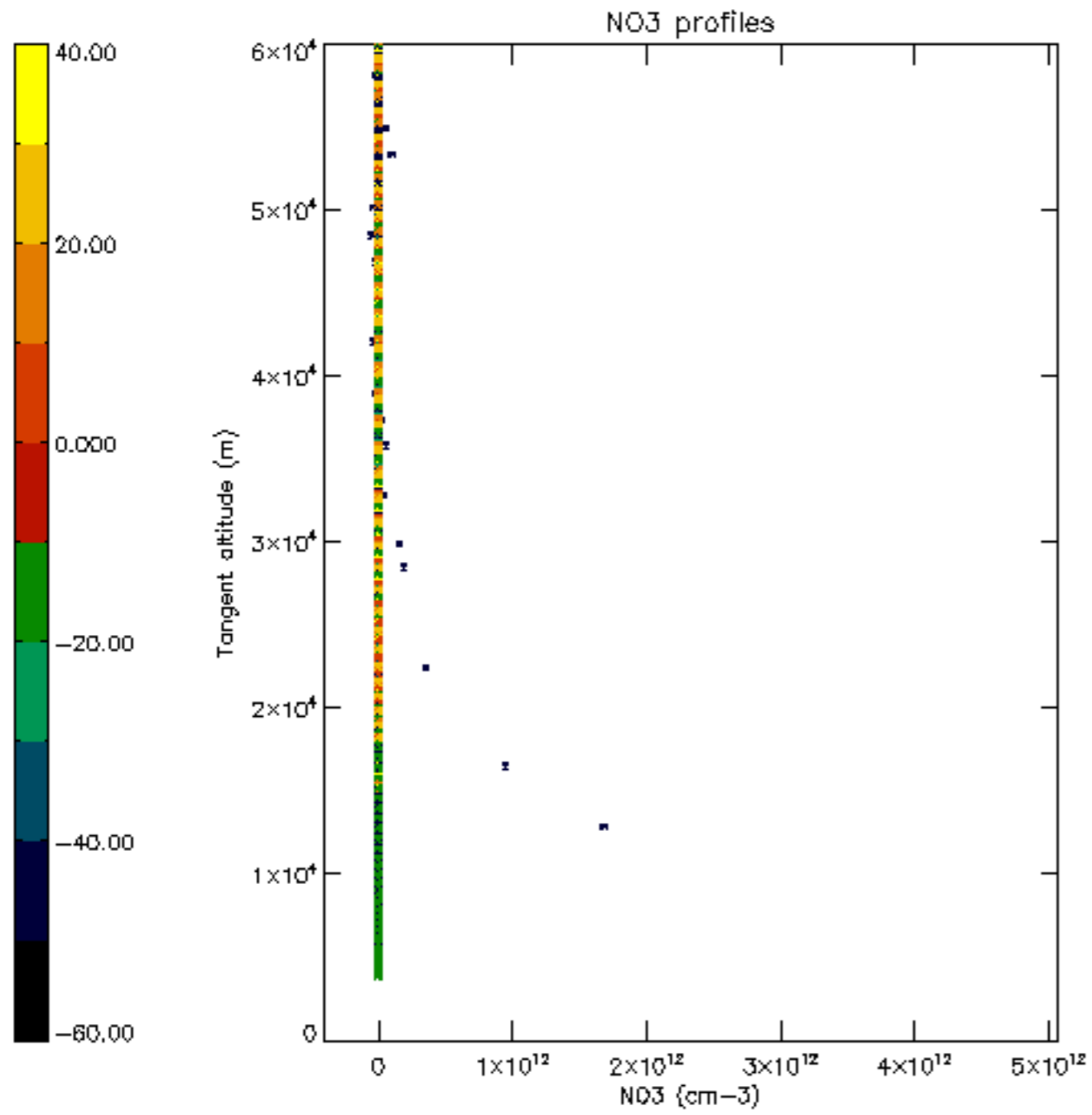


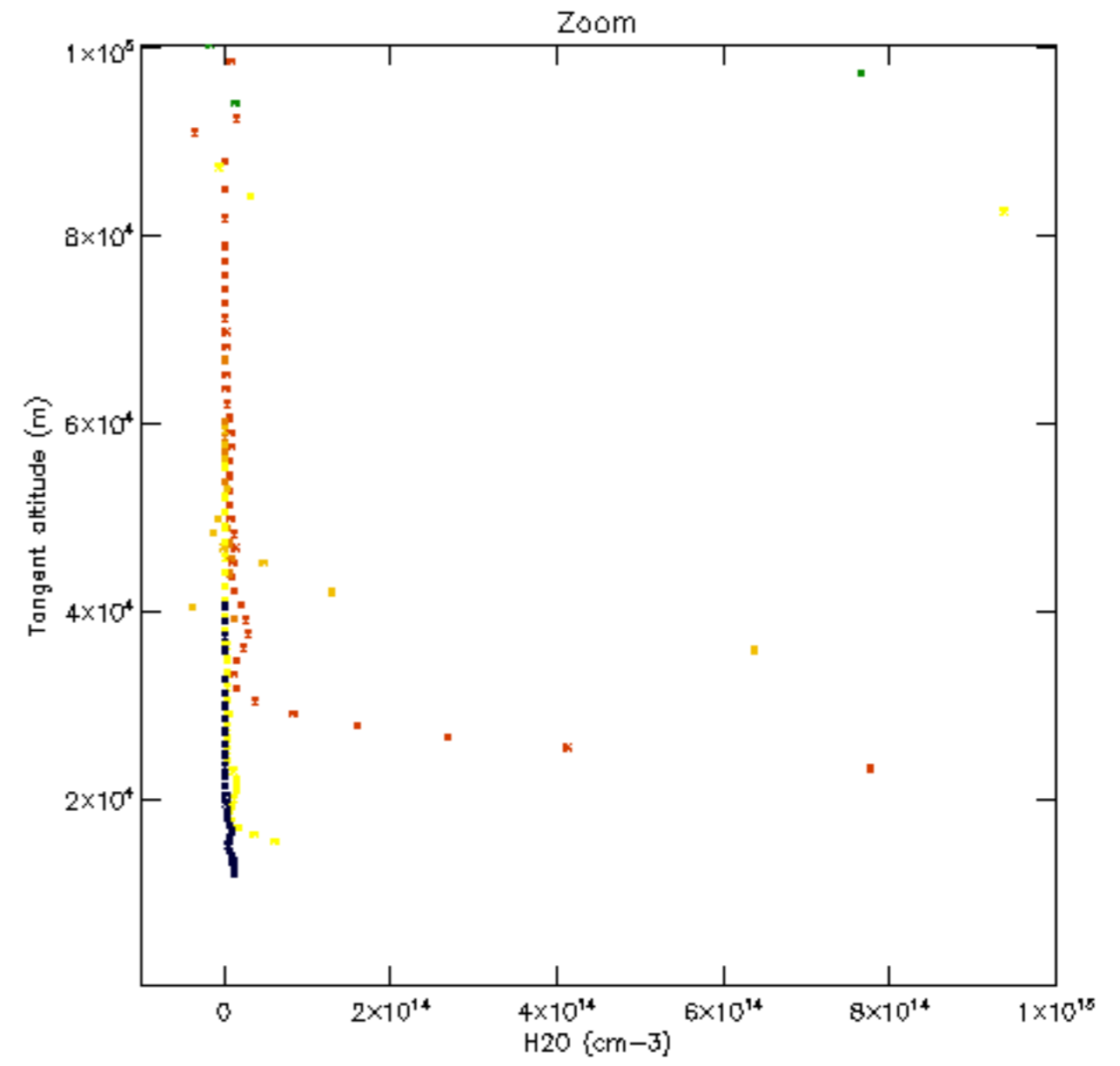
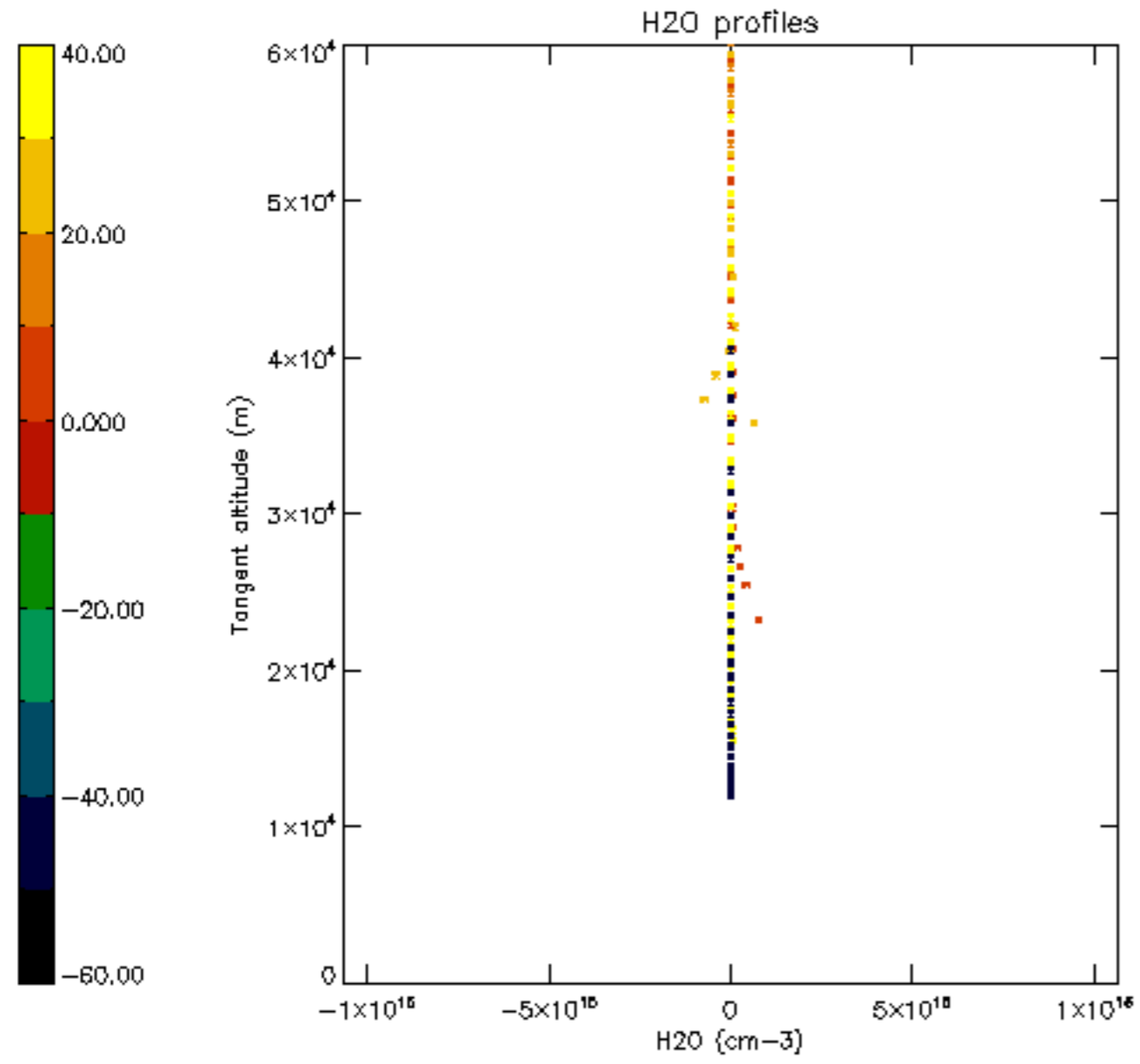


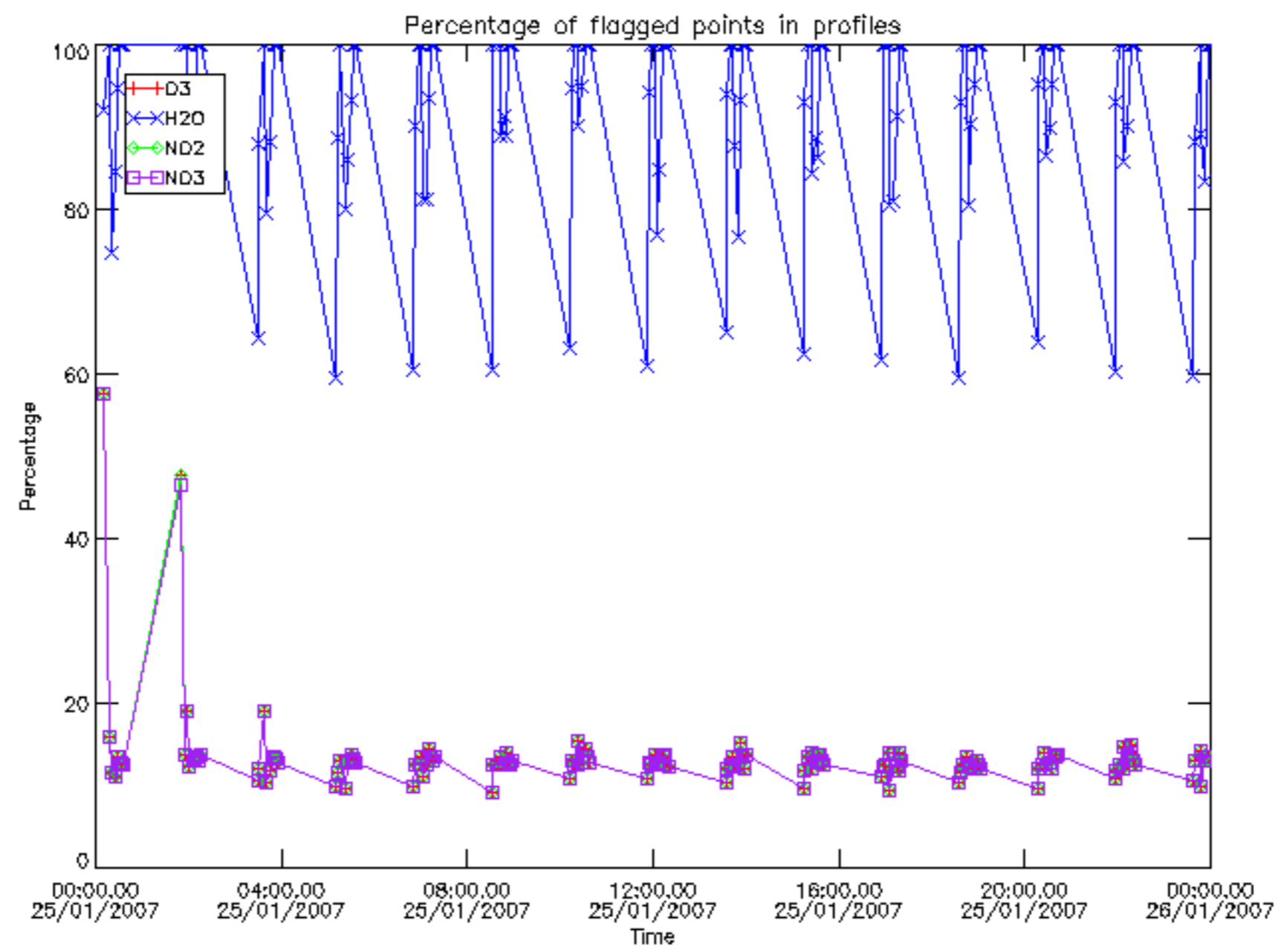






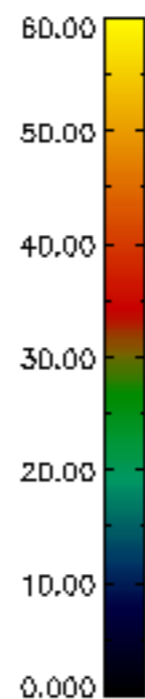
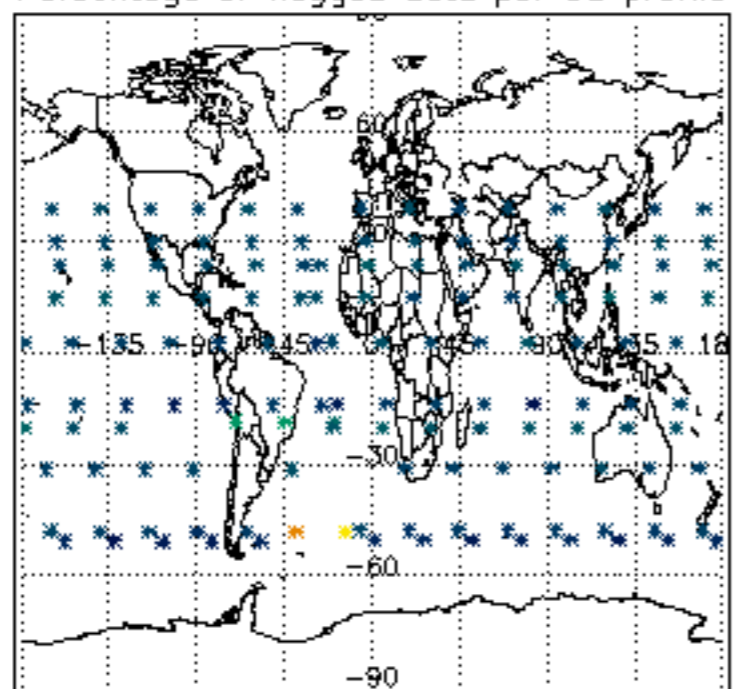




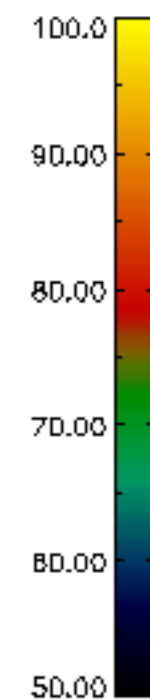
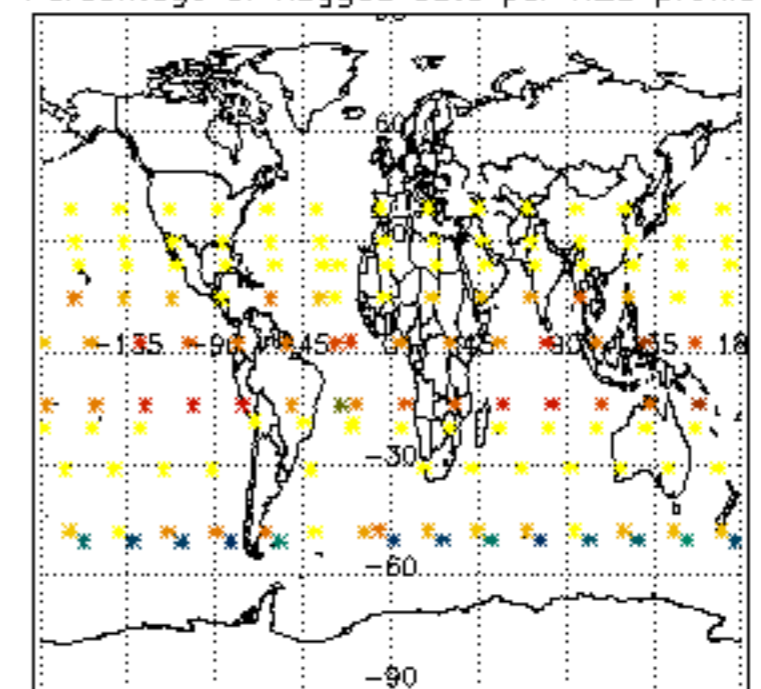




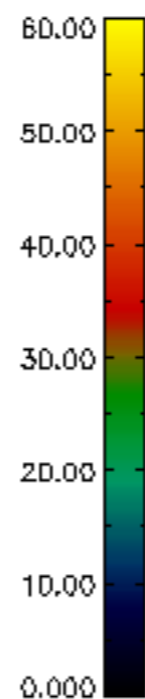
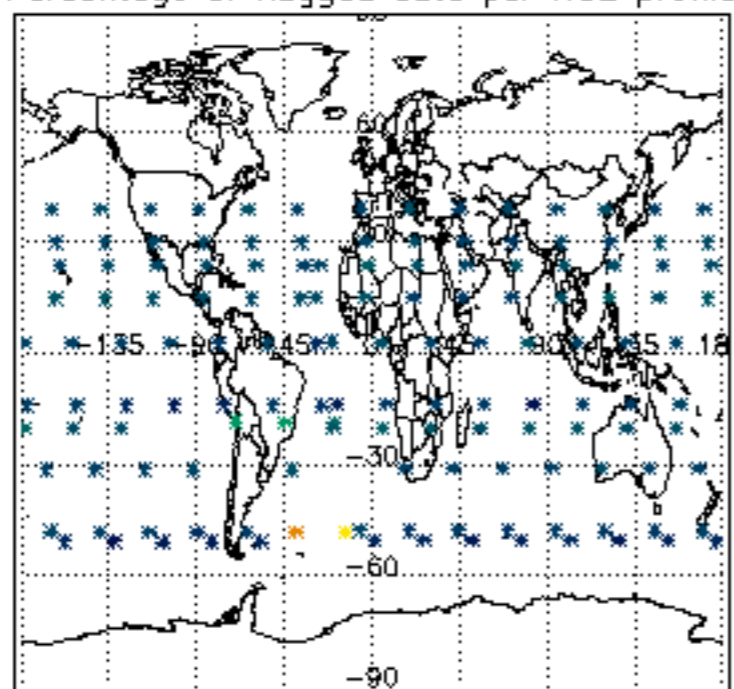
Percentage of flagged data per D3 profile



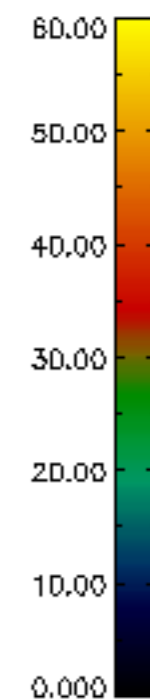
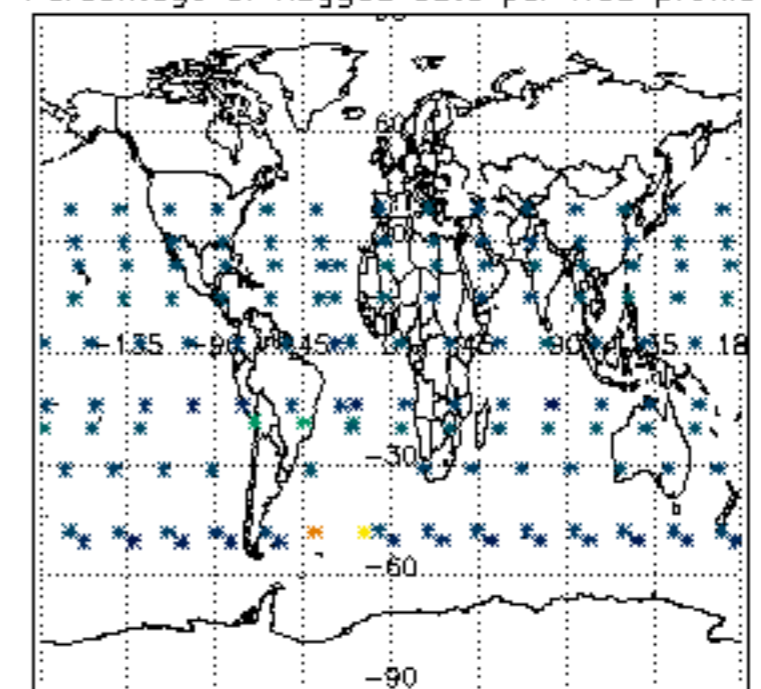
Percentage of flagged data per H2O profile

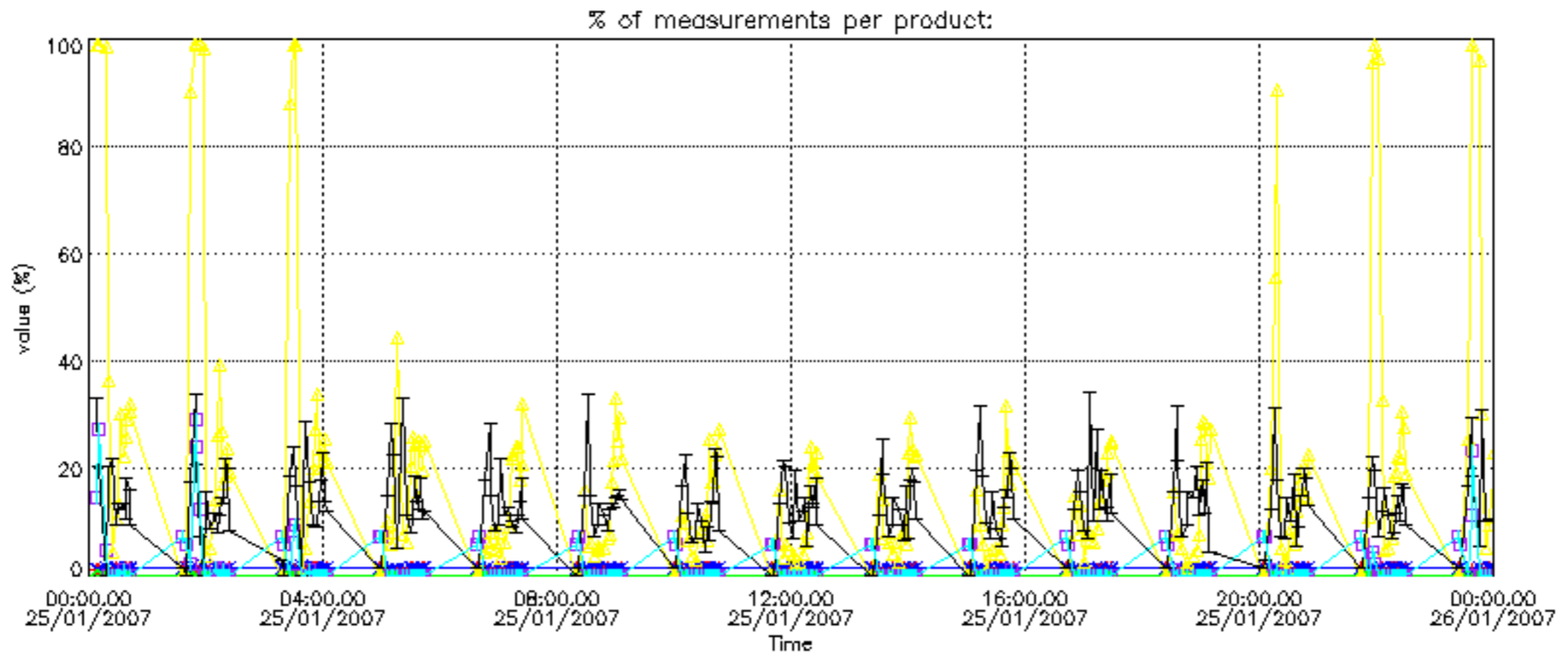


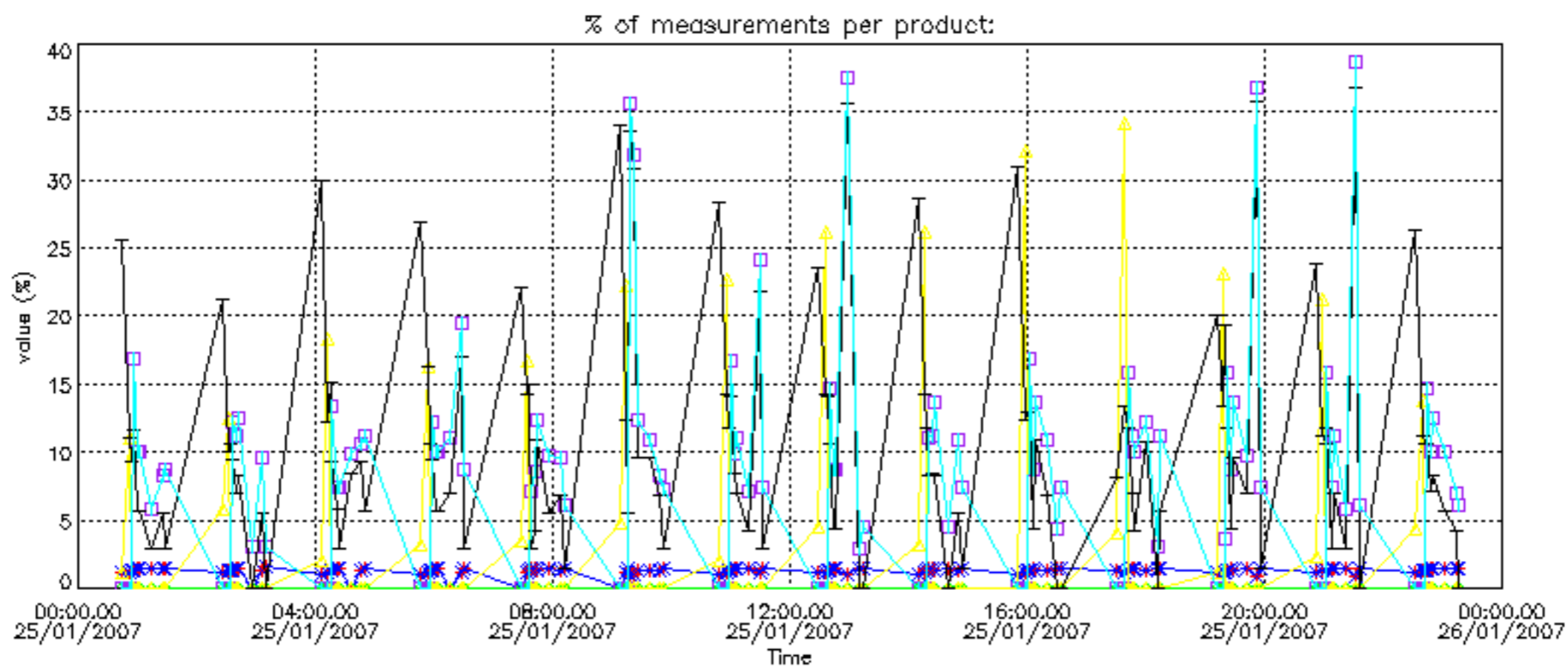
Percentage of flagged data per NO2 profile



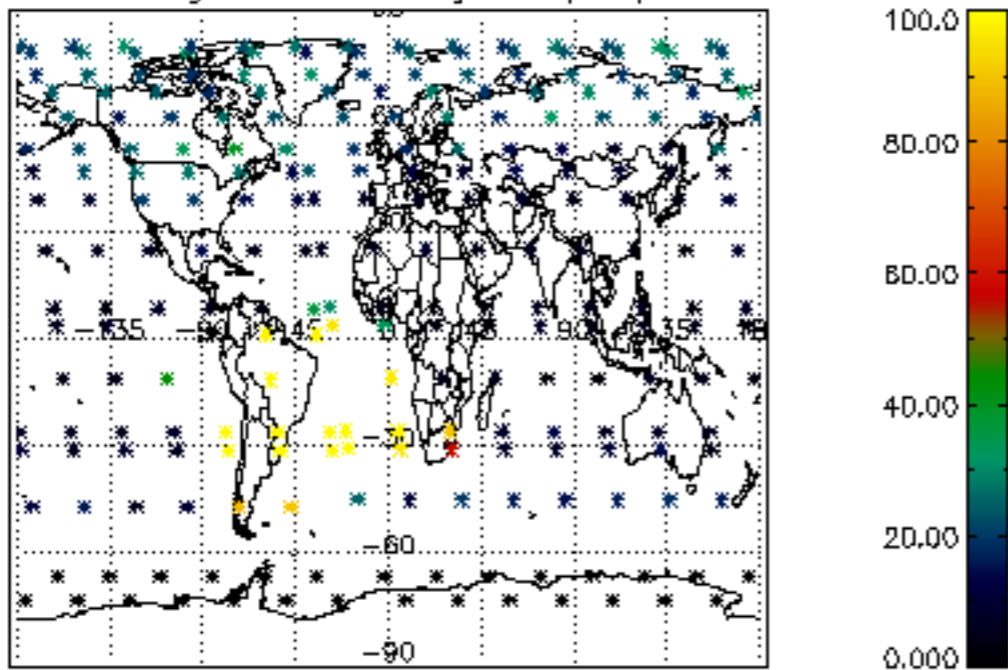
Percentage of flagged data per NO3 profile



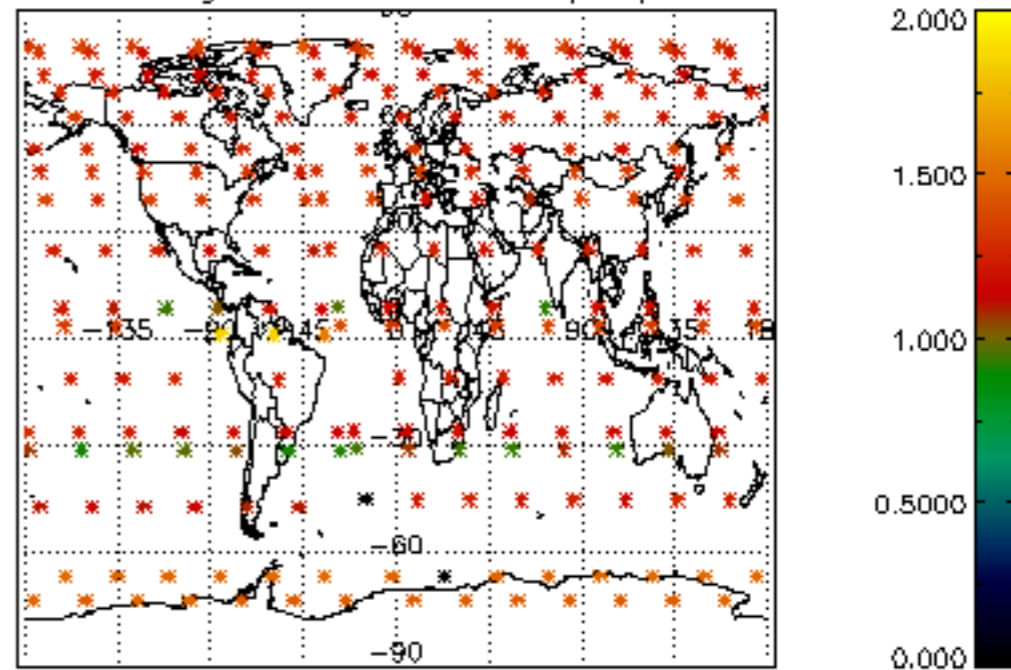




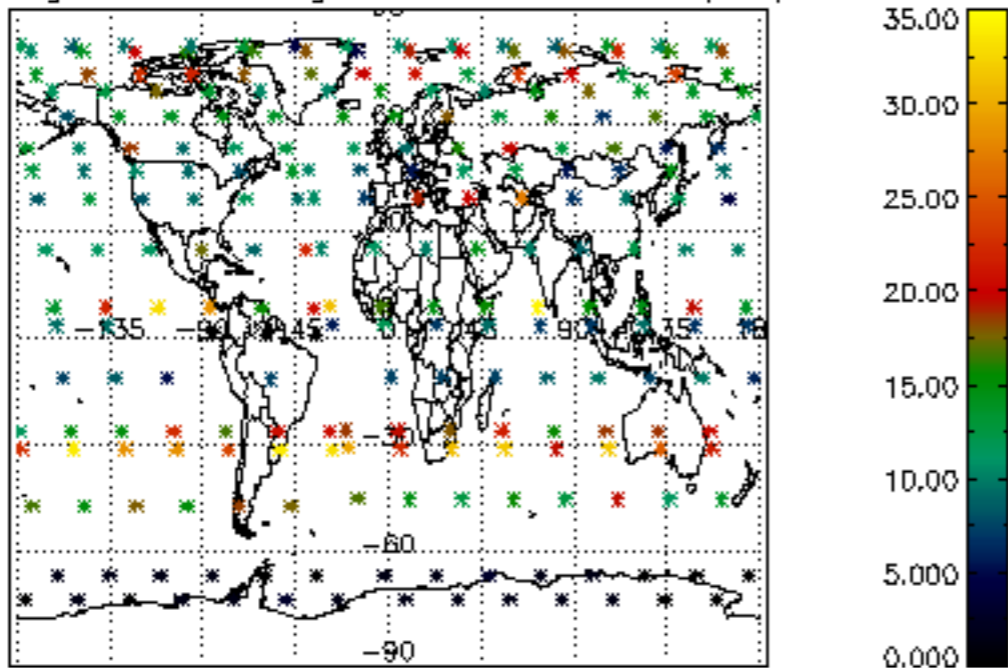
Percentage of cosmic ray hits per profile



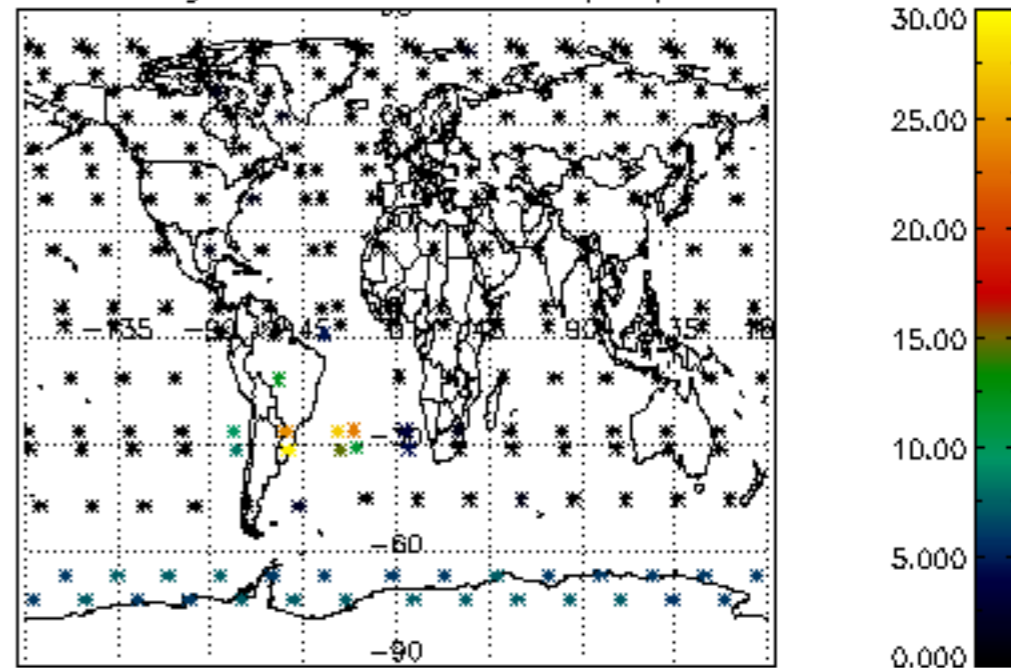
Percentage of datation errors per profile



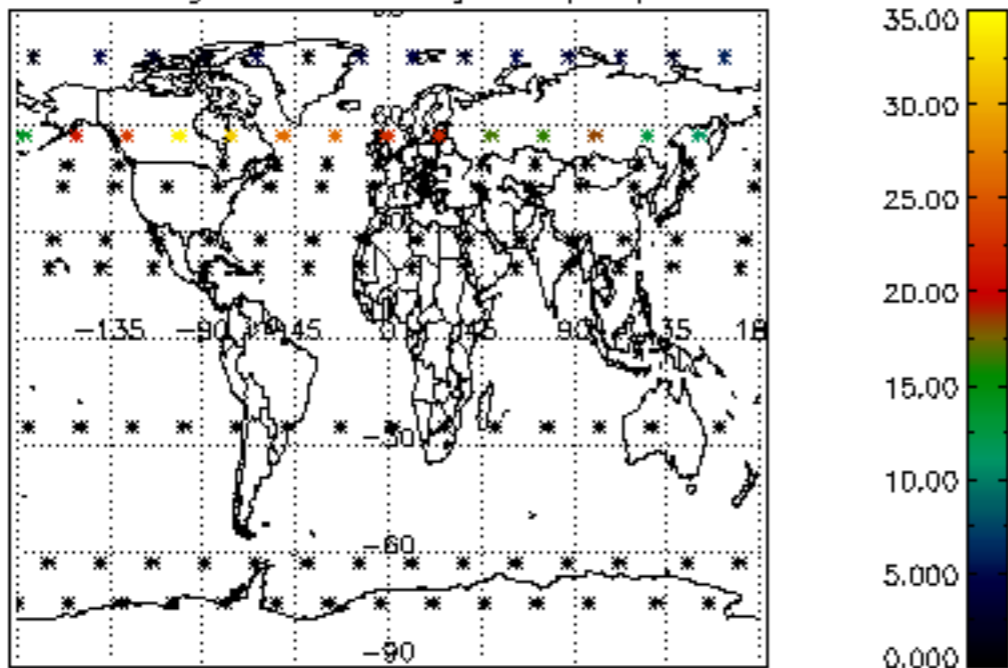
Percentage of star falling outside central band per profile



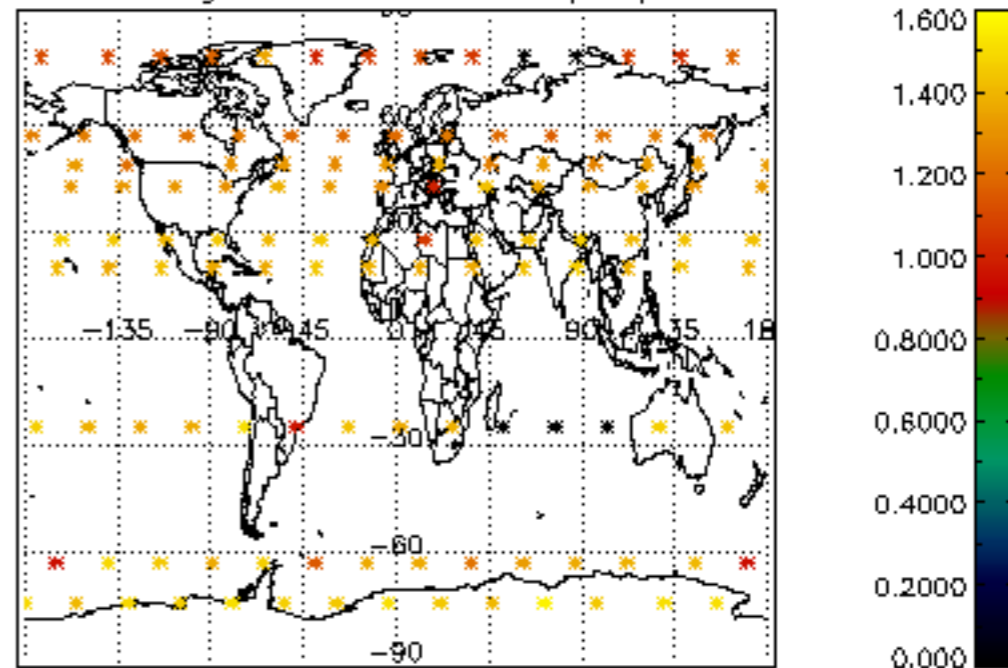
Percentage of saturation errors per profile



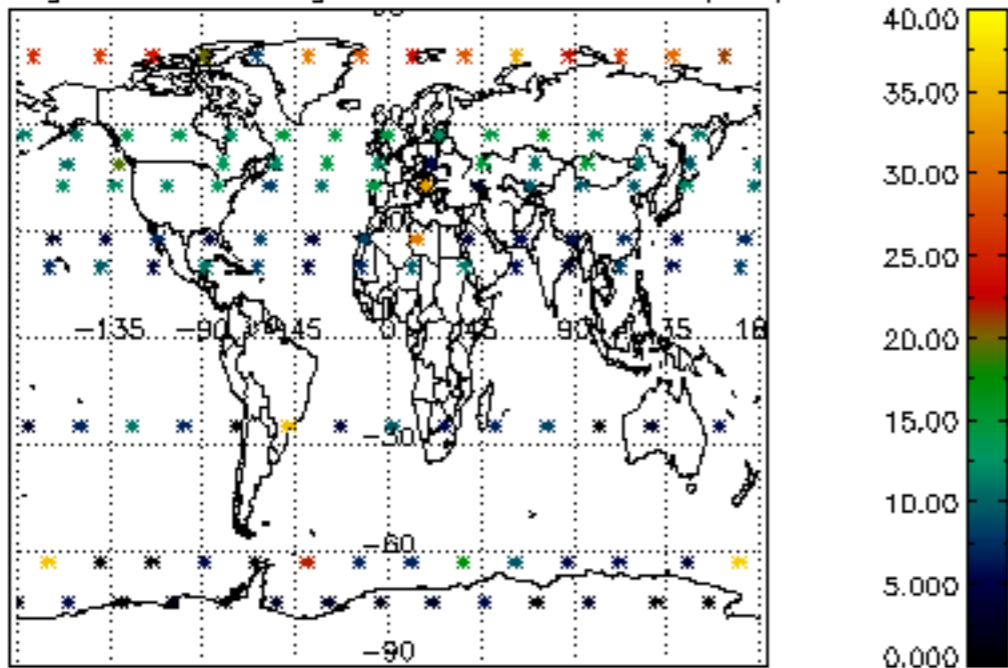
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

