

# 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 21:14:29
Data source version	GOMOS/6.01
Start time of products	28-06-2007 (28JUN2007 00:00:00)
Stop time of products	29-06-2007 (29JUN2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	307
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__2PRFIN20070628_000436_000000362059_00231_27840_4263.N1	28-JUN-2007 00:04:36	Bright	36.000	86	35Eta Oph	2.4300	10200.	72	27840	No
2	GOM_NL__2PRFIN20070628_000620_000000362059_00231_27840_4264.N1	28-JUN-2007 00:06:20	Bright	35.500	98	13Zet Oph	2.5710	30000.	71	27840	No
3	GOM_NL__2PRFIN20070628_001246_000000382059_00231_27840_4265.N1	28-JUN-2007 00:12:46	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	27840	No
4	GOM_NL__2PRFIN20070628_001519_000000372059_00231_27840_4266.N1	28-JUN-2007 00:15:19	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	27840	No
5	GOM_NL__2PRFIN20070628_001806_000000372059_00231_27840_4267.N1	28-JUN-2007 00:18:06	Bright	36.500	133	40Zet Her	2.8070	6000.0	73	27840	No
6	GOM_NL__2PRFIN20070628_002419_000000372059_00231_27840_4268.N1	28-JUN-2007 00:24:19	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	27840	No
7	GOM_NL__2PRFIN20070628_002632_000000362059_00231_27840_4269.N1	28-JUN-2007 00:26:32	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	27840	No
8	GOM_NL__2PRFIN20070628_003025_000000362059_00231_27840_4270.N1	28-JUN-2007 00:30:25	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	27840	No
9	GOM_NL__2PRFIN20070628_003446_000000332059_00231_27840_4271.N1	28-JUN-2007 00:34:46	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	27840	No
10	GOM_NL__2PRFIN20070628_004505_000000552059_00231_27840_4272.N1	28-JUN-2007 00:45:05	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	27840	No
11	GOM_NL__2PRFIN20070628_004644_000000322059_00231_27840_4273.N1	28-JUN-2007 00:46:44	Bright	32.000	175	39Del Per	3.0100	19400.	64	27840	No
12	GOM_NL__2PRFIN20070628_004853_000000372059_00231_27840_4274.N1	28-JUN-2007 00:48:53	Bright	36.500	79	26Bet Per	2.3100	13100.	73	27840	No
13	GOM_NL__2PRFIN20070628_005958_000000472059_00231_27840_4275.N1	28-JUN-2007 00:59:58	Dark	47.000	94	92Alp Cet	2.5260	3100.0	94	27840	No
14	GOM_NL__2PRFIN20070628_010349_000000372059_00231_27840_4276.N1	28-JUN-2007 01:03:49	Dark	36.500	165	34Gam Eri	2.9500	3200.0	73	27840	No
15	GOM_NL__2PRFIN20070628_011809_000000422059_00232_27841_4281.N1	28-JUN-2007 01:18:09	Dark	41.500	9	Alp Eri	0.45300	24000.	83	27841	No
16	GOM_NL__2PRFIN20070628_012531_000000412059_00232_27841_4282.N1	28-JUN-2007 01:25:31	Straylight	40.500	148	Alp Tuc	2.8780	4100.0	81	27841	No
17	GOM_NL__2PRFIN20070628_012957_000000422059_00232_27841_4283.N1	28-JUN-2007 01:29:57	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	27841	No
18	GOM_NL__2PRFIN20070628_013529_000000382059_00232_27841_4284.N1	28-JUN-2007 01:35:29	Straylight	37.500	147	Alp Ara	2.8770	26000.	75	27841	No
19	GOM_NL__2PRFIN20070628_013717_000000412059_00232_27841_4285.N1	28-JUN-2007 01:37:17	Twilight_and_stray	40.500	40	The Sco	1.8590	7100.0	81	27841	No
20	GOM_NL__2PRFIN20070628_013857_000000412059_00232_27841_4286.N1	28-JUN-2007 01:38:57	Twilight_and_stray	40.500	25	35Lam Sco	1.6200	28000.	81	27841	No
21	GOM_NL__2PRFIN20070628_014020_000000512059_00232_27841_4287.N1	28-JUN-2007 01:40:20	Bright	51.000	116	19Del Sgr	2.7000	4100.0	102	27841	No
22	GOM_NL__2PRFIN20070628_014512_000000372059_00232_27841_4288.N1	28-JUN-2007 01:45:12	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	27841	No
23	GOM_NL__2PRFIN20070628_014656_000000362059_00232_27841_4289.N1	28-JUN-2007 01:46:56	Bright	35.500	98	13Zet Oph	2.5710	30000.	71	27841	No
24	GOM_NL__2PRFIN20070628_015322_000000382059_00232_27841_4290.N1	28-JUN-2007 01:53:22	Bright	38.000	59	55Alp Oph	2.0800	8900.0	76	27841	No
25	GOM_NL__2PRFIN20070628_015554_000000372059_00232_27841_4291.N1	28-JUN-2007 01:55:54	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	27841	No
26	GOM_NL__2PRFIN20070628_015842_000000362059_00232_27841_4292.N1	28-JUN-2007 01:58:42	Bright	35.500	133	40Zet Her	2.8070	6000.0	71	27841	No
27	GOM_NL__2PRFIN20070628_020454_000000382059_00232_27841_4293.N1	28-JUN-2007 02:04:54	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	27841	No
28	GOM_NL__2PRFIN20070628_020708_000000362059_00232_27841_4294.N1	28-JUN-2007 02:07:08	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	27841	No
29	GOM_NL__2PRFIN20070628_021101_000000332059_00232_27841_4295.N1	28-JUN-2007 02:11:01	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	27841	No
30	GOM_NL__2PRFIN20070628_021522_000000352059_00232_27841_4296.N1	28-JUN-2007 02:15:22	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	27841	No
31	GOM_NL__2PRFIN20070628_022541_000000412059_00232_27841_4297.N1	28-JUN-2007 02:25:41	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	27841	No
32	GOM_NL__2PRFIN20070628_022719_000000352059_00232_27841_4298.N1	28-JUN-2007 02:27:19	Bright	34.500	175	39Del Per	3.0100	19400.	69	27841	No
33	GOM_NL__2PRFIN20070628_022929_000000372059_00232_27841_4299.N1	28-JUN-2007 02:29:29	Bright	37.000	79	26Bet Per	2.3100	13100.	74	27841	No
34	GOM_NL__2PRFIN20070628_024035_000000482059_00232_27841_4300.N1	28-JUN-2007 02:40:35	Dark	48.000	94	92Alp Cet	2.5260	3100.0	96	27841	No
35	GOM_NL__2PRFIN20070628_024425_000000372059_00232_27841_4301.N1	28-JUN-2007 02:44:25	Dark	37.000	165	34Gam Eri	2.9500	3200.0	74	27841	No
36	GOM_NL__2PRFIN20070628_025846_000000452059_00233_27842_4293.N1	28-JUN-2007 02:58:46	Dark	44.500	9	Alp Eri	0.45300	24000.	89	27842	No
37	GOM_NL__2PRFIN20070628_030607_000000422059_00233_27842_4294.N1	28-JUN-2007 03:06:07	Straylight	42.000	148	Alp Tuc	2.8780	4100.0	84	27842	No
38	GOM_NL__2PRFIN20070628_031034_000000432059_00233_27842_4295.N1	28-JUN-2007 03:10:34	Straylight	43.000	45	Alp Pav	1.9400	26000.	86	27842	No
39	GOM_NL__2PRFIN20070628_031606_000000372059_00233_27842_4296.N1	28-JUN-2007 03:16:06	Straylight	37.000	147	Alp Ara	2.8770	26000.	74	27842	No
40	GOM_NL__2PRFIN20070628_031753_000000422059_00233_27842_4297.N1	28-JUN-2007 03:17:53	Twilight_and_stray	41.500	40	The Sco	1.8590	7100.0	83	27842	No
41	GOM_NL__2PRFIN20070628_031933_000000432059_00233_27842_4298.N1	28-JUN-2007 03:19:33	Twilight_and_stray	42.500	25	35Lam Sco	1.6200	28000.	85	27842	No
42	GOM_NL__2PRFIN20070628_032056_000000522059_00233_27842_4299.N1	28-JUN-2007 03:20:56	Bright	52.000	116	19Del Sgr	2.7000	4100.0	104	27842	No







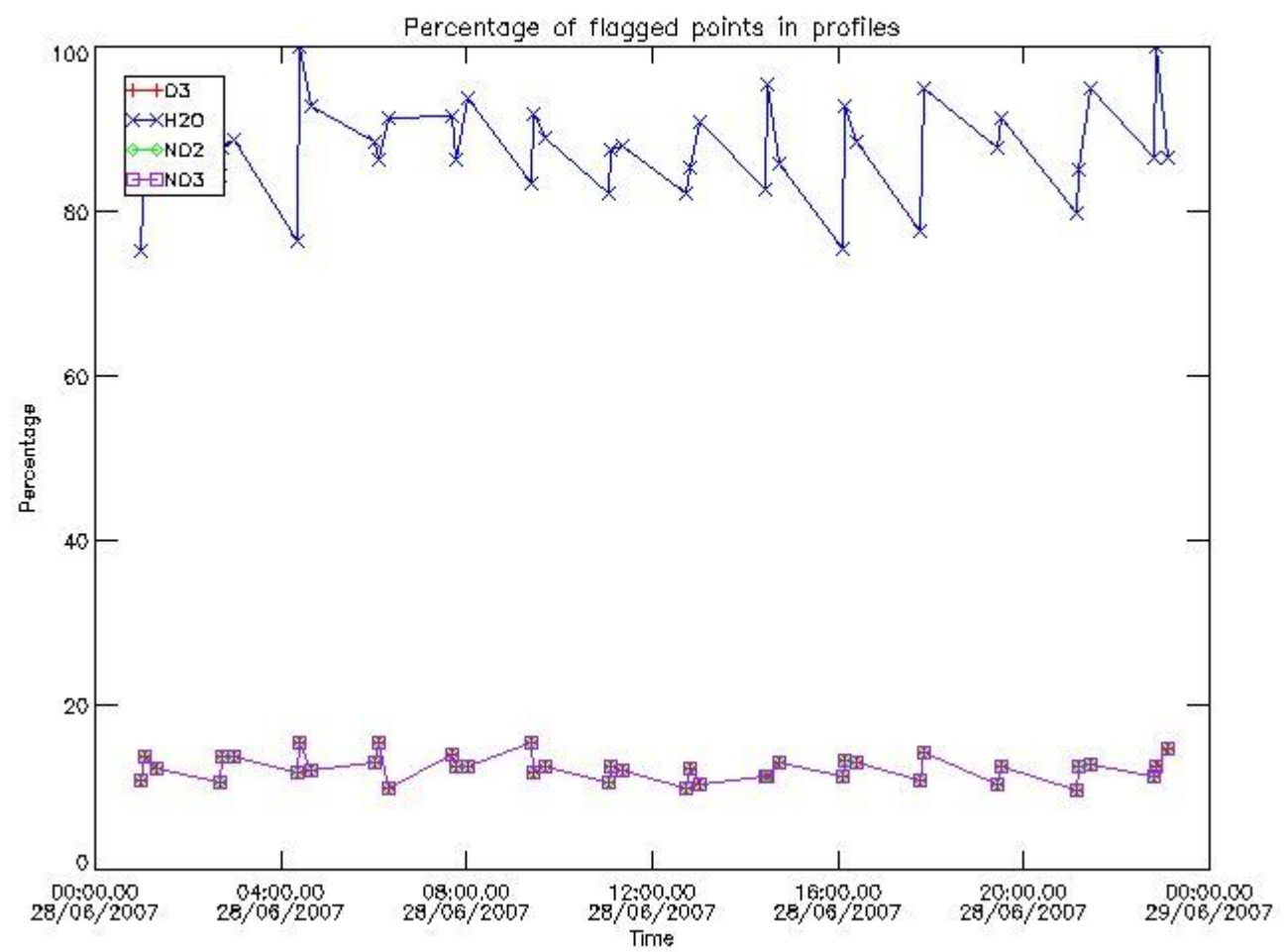


279	GOM_NL__2PRFIN20070628_215811_000000372059_00244_27853_4520.N1	28-JUN-2007 21:58:11	Bright	37.000	126	60Bet Oph	2.7700	4250.0	74	27853	No
280	GOM_NL__2PRFIN20070628_220032_000000372059_00244_27853_4521.N1	28-JUN-2007 22:00:32	Bright	36.500	59	55Alp Oph	2.0800	8900.0	73	27853	No
281	GOM_NL__2PRFIN20070628_220307_000000352059_00244_27853_4522.N1	28-JUN-2007 22:03:07	Bright	34.500	127	27Bet Her	2.7810	4700.0	69	27853	No
282	GOM_NL__2PRFIN20070628_220554_000000362059_00244_27853_4523.N1	28-JUN-2007 22:05:54	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	27853	No
283	GOM_NL__2PRFIN20070628_221203_000000382059_00244_27853_4524.N1	28-JUN-2007 22:12:03	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	27853	No
284	GOM_NL__2PRFIN20070628_221419_000000372059_00244_27853_4525.N1	28-JUN-2007 22:14:19	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	27853	No
285	GOM_NL__2PRFIN20070628_221814_000000372059_00244_27853_4526.N1	28-JUN-2007 22:18:14	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	27853	No
286	GOM_NL__2PRFIN20070628_222233_000000342059_00244_27853_4527.N1	28-JUN-2007 22:22:33	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	27853	No
287	GOM_NL__2PRFIN20070628_223252_000000432059_00244_27853_4528.N1	28-JUN-2007 22:32:52	Bright	43.000	160	23Gam Per	2.9300	4700.0	86	27853	No
288	GOM_NL__2PRFIN20070628_223432_000000452059_00244_27853_4529.N1	28-JUN-2007 22:34:32	Bright	44.500	175	39Del Per	3.0100	19400.	89	27853	No
289	GOM_NL__2PRFIN20070628_223640_000000402059_00244_27853_4530.N1	28-JUN-2007 22:36:40	Bright	40.000	79	26Bet Per	2.3100	13100.	80	27853	No
290	GOM_NL__2PRFIN20070628_224750_000000452059_00244_27853_4531.N1	28-JUN-2007 22:47:50	Dark	45.000	94	92Alp Cet	2.5260	3100.0	90	27853	No
291	GOM_NL__2PRFIN20070628_225139_000000402059_00244_27853_4532.N1	28-JUN-2007 22:51:39	Dark	40.000	165	34Gam Eri	2.9500	3200.0	80	27853	No
292	GOM_NL__2PRFIN20070628_230602_000000522059_00245_27854_4529.N1	28-JUN-2007 23:06:02	Dark	52.000	9	Alp Eri	0.45300	24000.	104	27854	No
293	GOM_NL__2PRFIN20070628_231325_000000412059_00245_27854_4530.N1	28-JUN-2007 23:13:25	Straylight	41.000	148	Alp Tuc	2.8780	4100.0	82	27854	No
294	GOM_NL__2PRFIN20070628_231751_000000402059_00245_27854_4531.N1	28-JUN-2007 23:17:51	Straylight	40.000	45	Alp Pav	1.9400	26000.	80	27854	No
295	GOM_NL__2PRFIN20070628_232319_000000392059_00245_27854_4532.N1	28-JUN-2007 23:23:19	Straylight	38.500	147	Alp Ara	2.8770	26000.	77	27854	No
296	GOM_NL__2PRFIN20070628_232507_000000402059_00245_27854_4533.N1	28-JUN-2007 23:25:07	Tw_i_and_stray	40.000	40	The Sco	1.8590	7100.0	80	27854	No
297	GOM_NL__2PRFIN20070628_232647_000000422059_00245_27854_4534.N1	28-JUN-2007 23:26:47	Tw_i_and_stray	41.500	25	35Lam Sco	1.6200	28000.	83	27854	No
298	GOM_NL__2PRFIN20070628_232810_000000432059_00245_27854_4535.N1	28-JUN-2007 23:28:10	Bright	43.000	116	19Del Sgr	2.7000	4100.0	86	27854	No
299	GOM_NL__2PRFIN20070628_233301_000000362059_00245_27854_4536.N1	28-JUN-2007 23:33:01	Bright	36.000	86	35Eta Oph	2.4300	10200.	72	27854	No
300	GOM_NL__2PRFIN20070628_233445_000000372059_00245_27854_4537.N1	28-JUN-2007 23:34:45	Bright	36.500	98	13Zet Oph	2.5710	30000.	73	27854	No
301	GOM_NL__2PRFIN20070628_233846_000000382059_00245_27854_4538.N1	28-JUN-2007 23:38:46	Bright	38.000	126	60Bet Oph	2.7700	4250.0	76	27854	No
302	GOM_NL__2PRFIN20070628_234107_000000382059_00245_27854_4539.N1	28-JUN-2007 23:41:07	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	27854	No
303	GOM_NL__2PRFIN20070628_234343_000000372059_00245_27854_4540.N1	28-JUN-2007 23:43:43	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	27854	No
304	GOM_NL__2PRFIN20070628_234630_000000362059_00245_27854_4541.N1	28-JUN-2007 23:46:30	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	27854	No
305	GOM_NL__2PRFIN20070628_235239_000000372059_00245_27854_4542.N1	28-JUN-2007 23:52:39	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	27854	No
306	GOM_NL__2PRFIN20070628_235455_000000362059_00245_27854_4543.N1	28-JUN-2007 23:54:55	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	27854	No
307	GOM_NL__2PRFIN20070628_235850_000000372059_00245_27854_4544.N1	28-JUN-2007 23:58:50	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	27854	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.

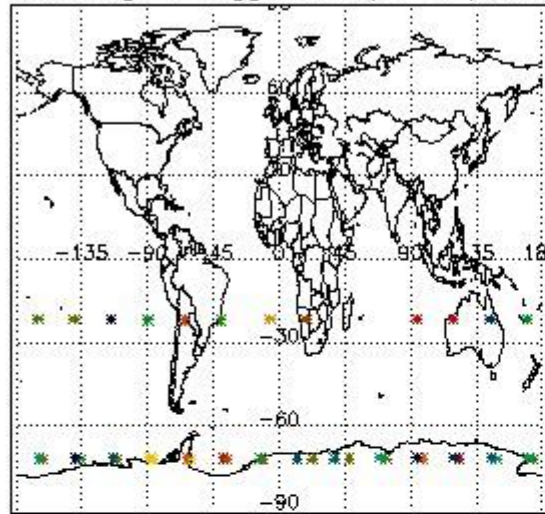
#### 3.1 Plot quality information per product (time dependant)



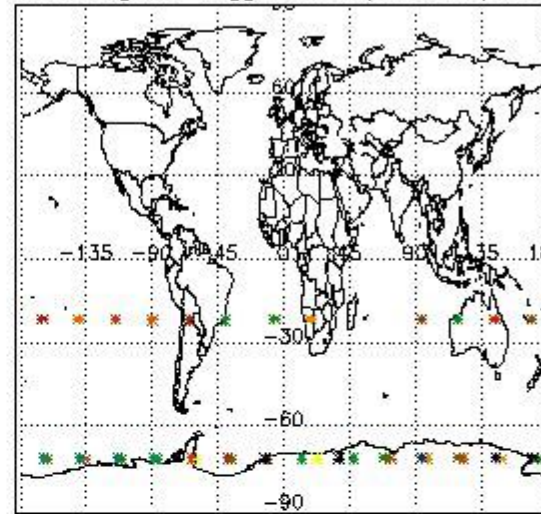
*3.2 Plot quality information per product (world map)*



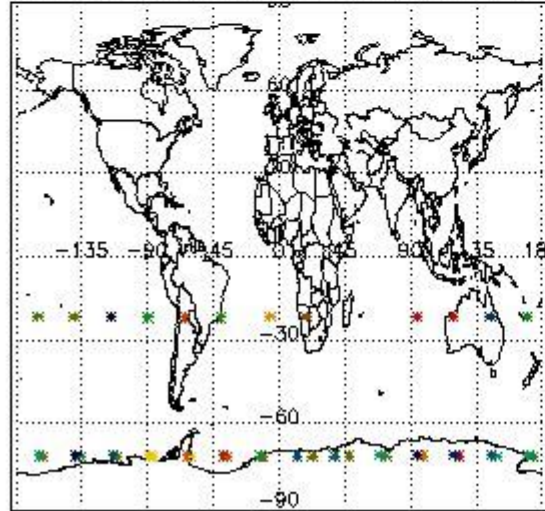
Percentage of flagged data per O3 profile



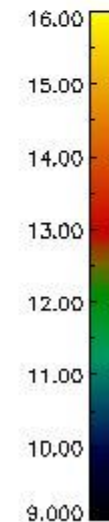
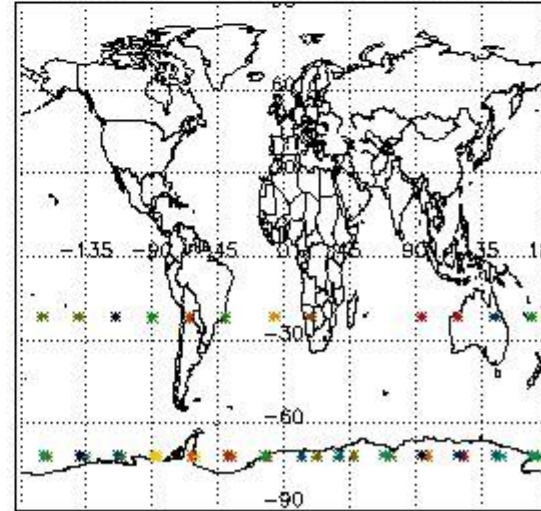
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

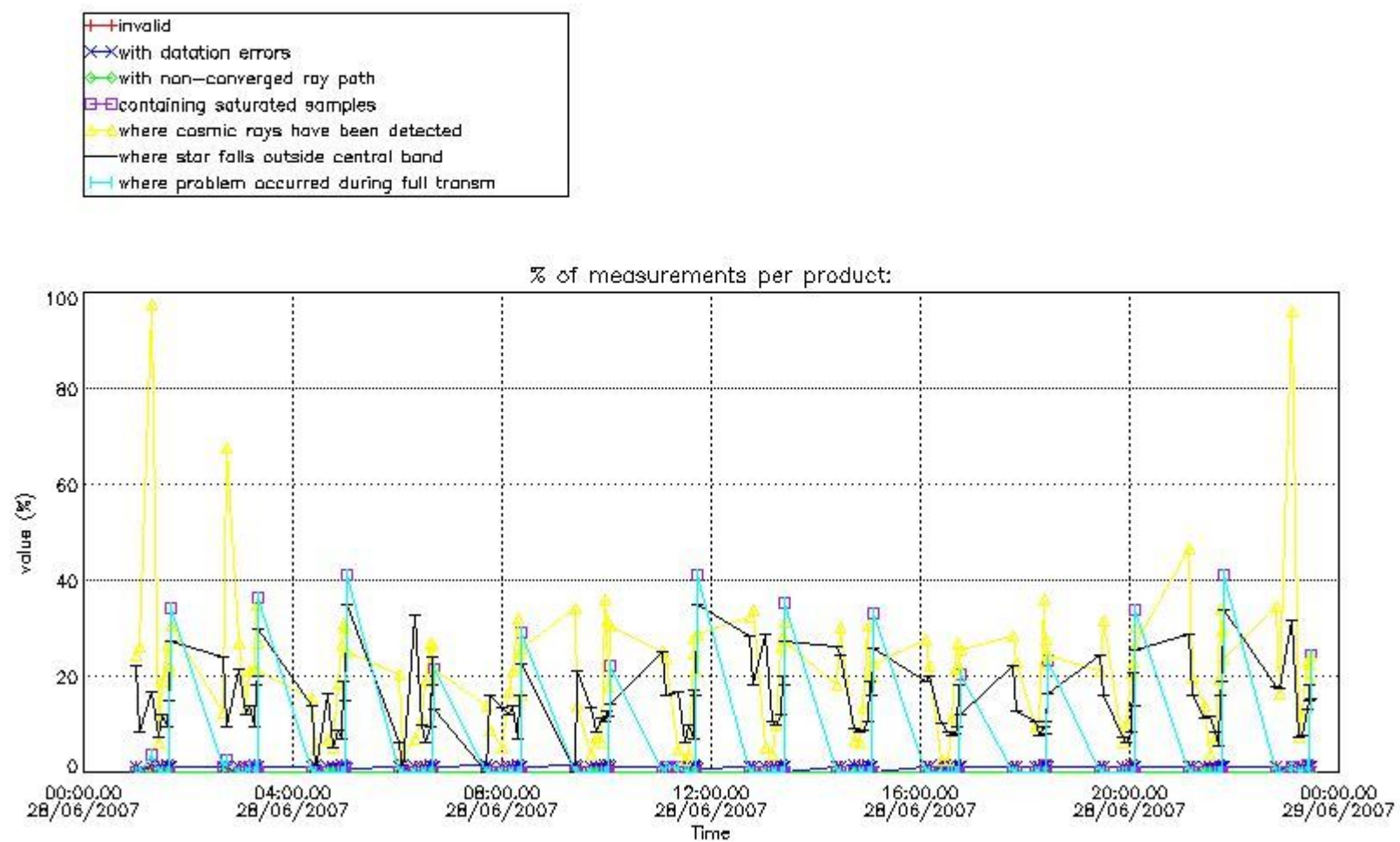


#### 4. Level 1 quality information per product

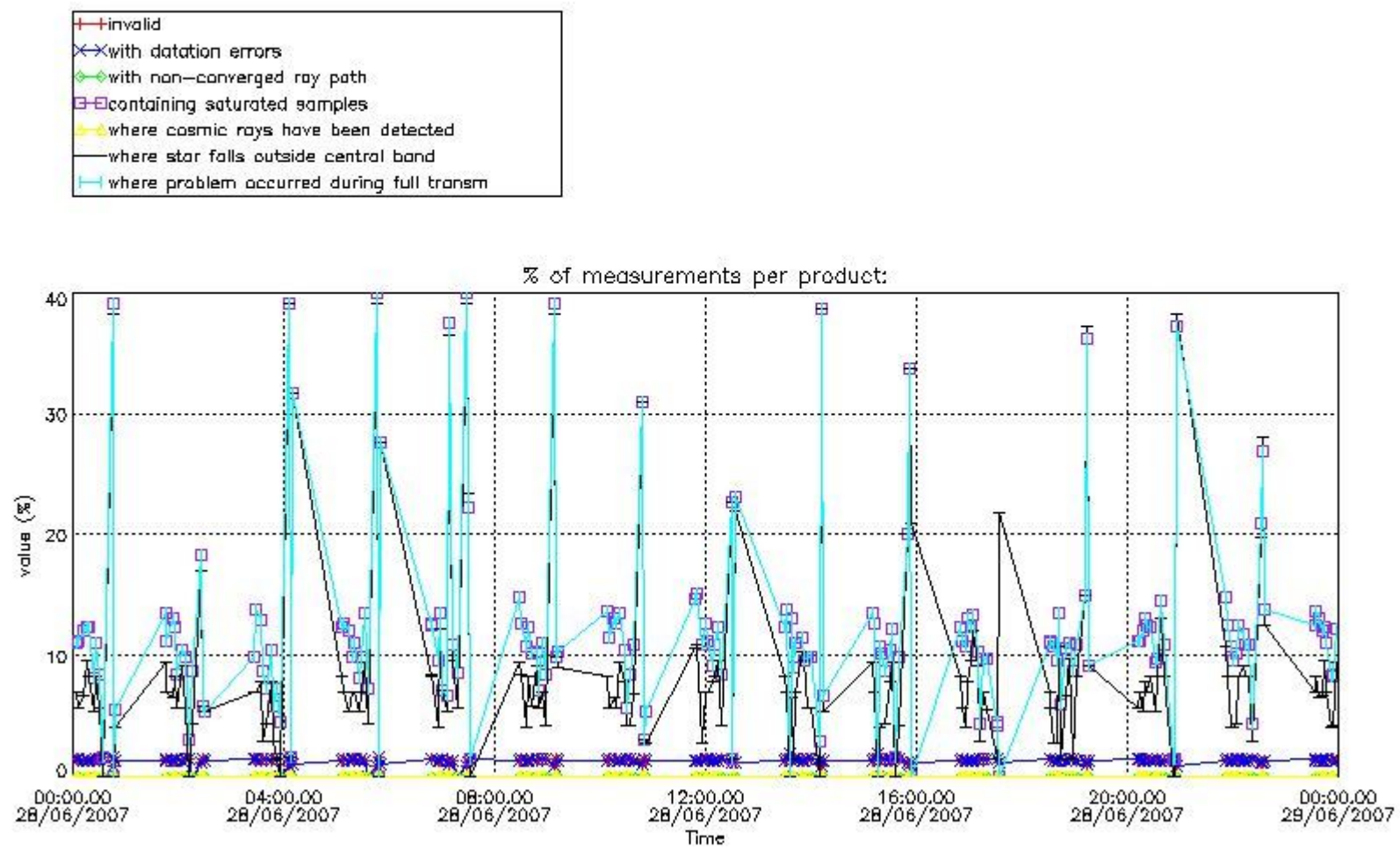
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



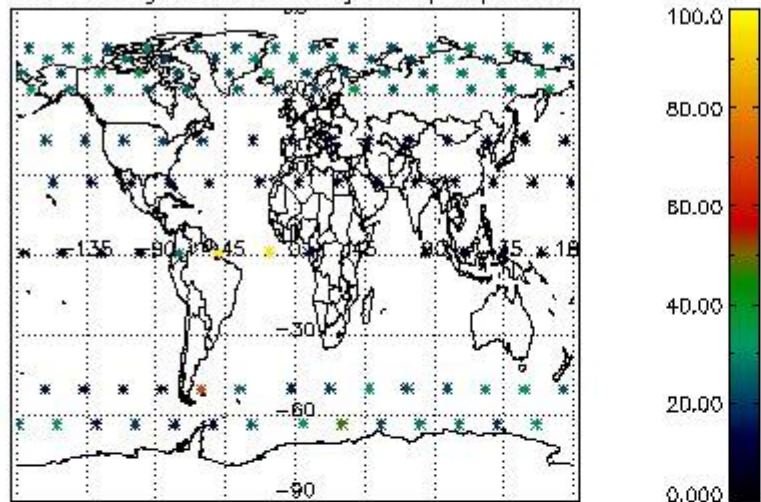
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



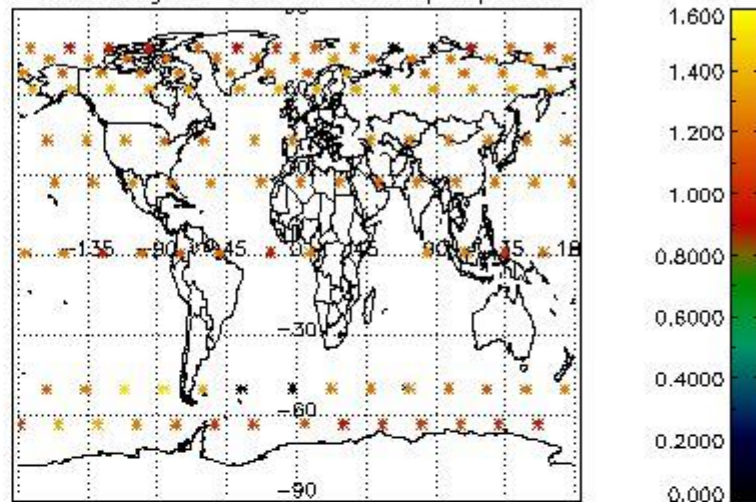
4.2 Plot quality information per product coming from level 1b processing (world map)

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

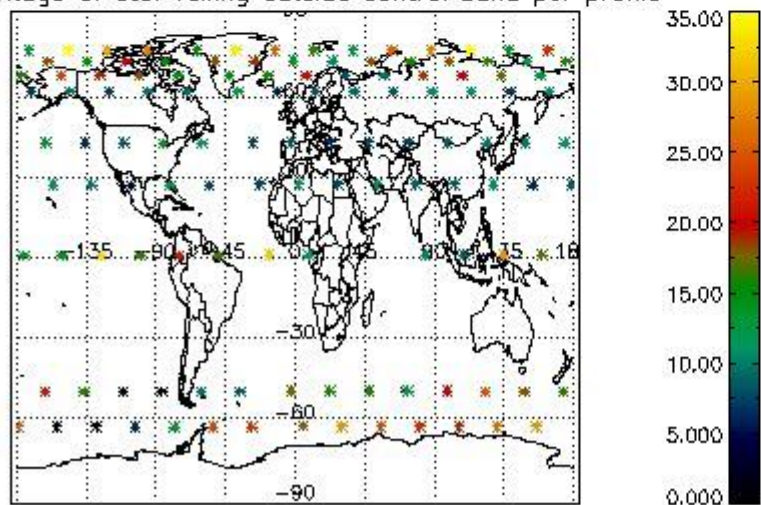
Percentage of cosmic ray hits per profile



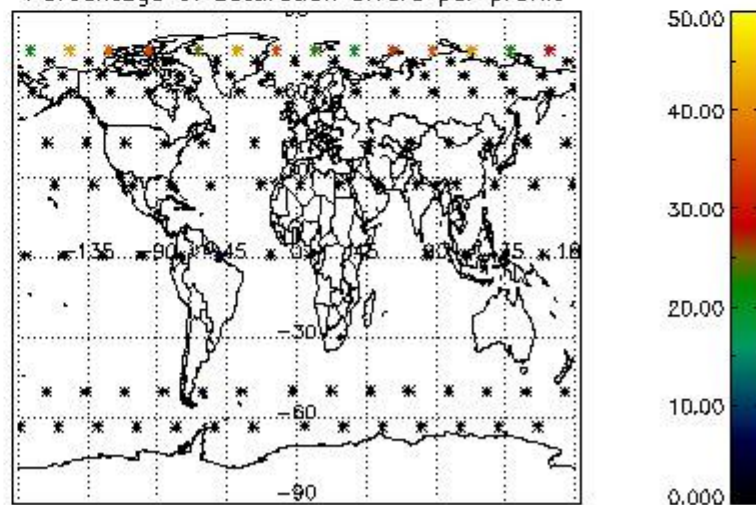
Percentage of datation errors per profile



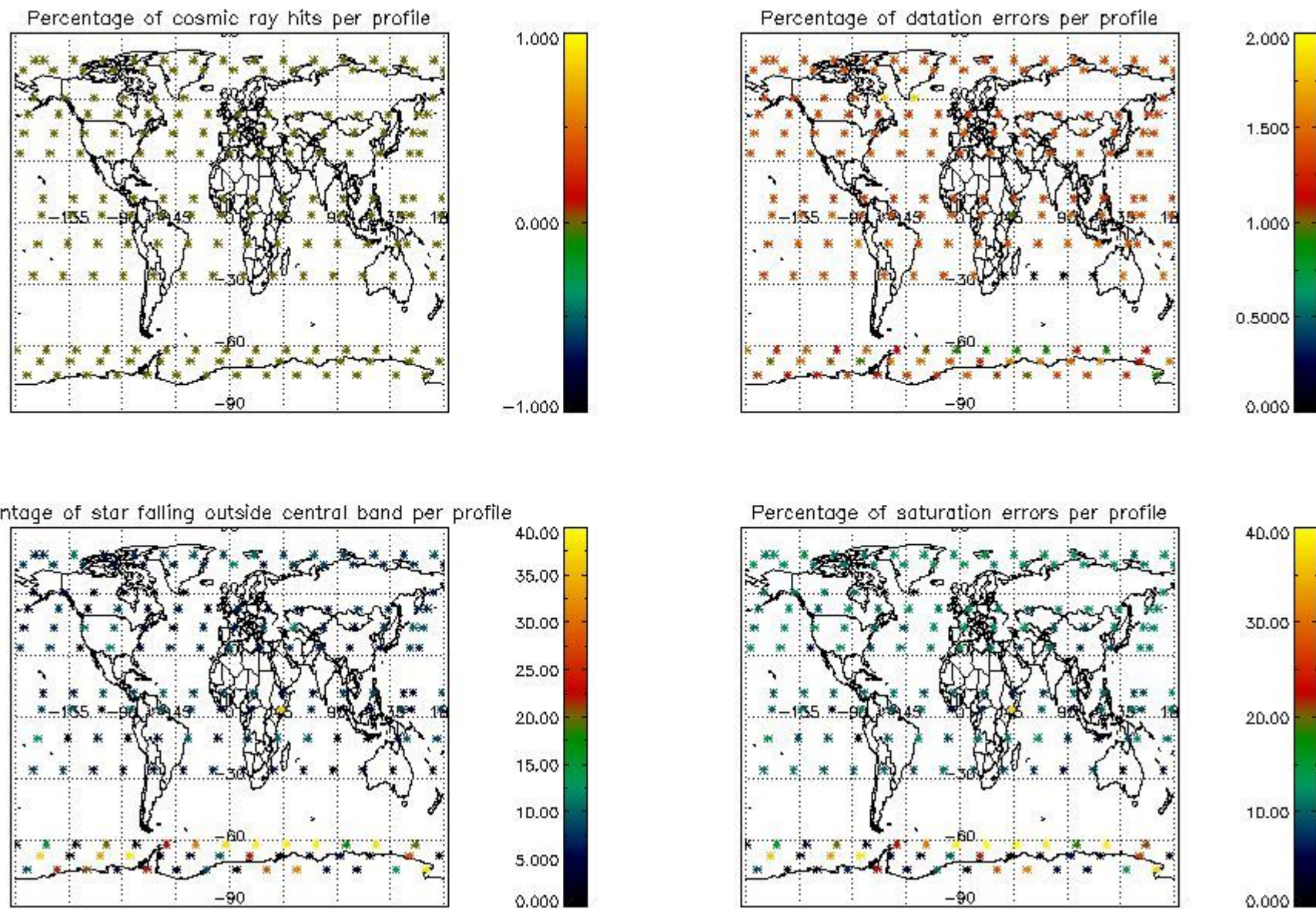
Percentage of star falling outside central band per profile



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

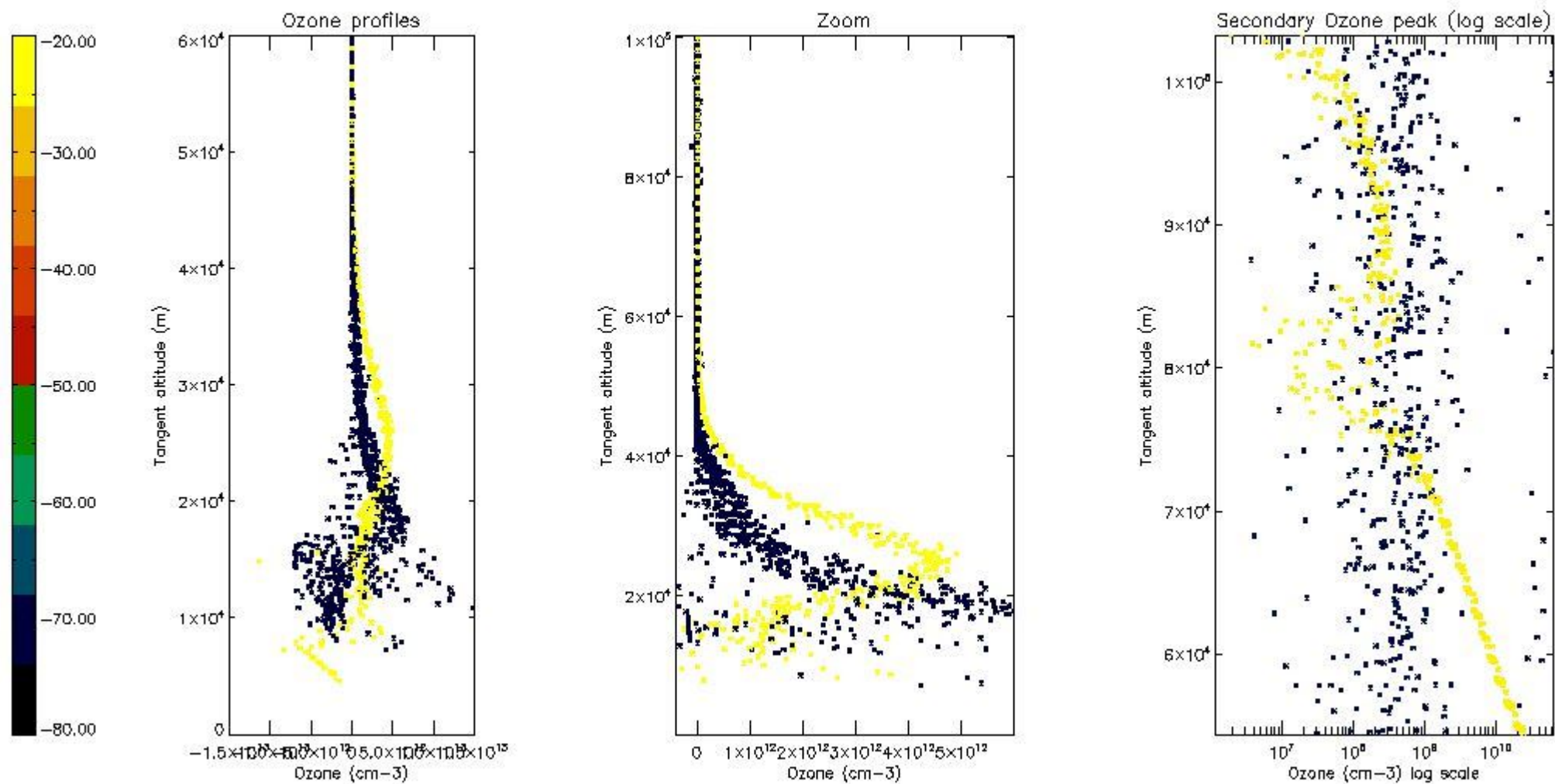
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	15
STD < 20	5

STD < 10	4
STD < 5	3

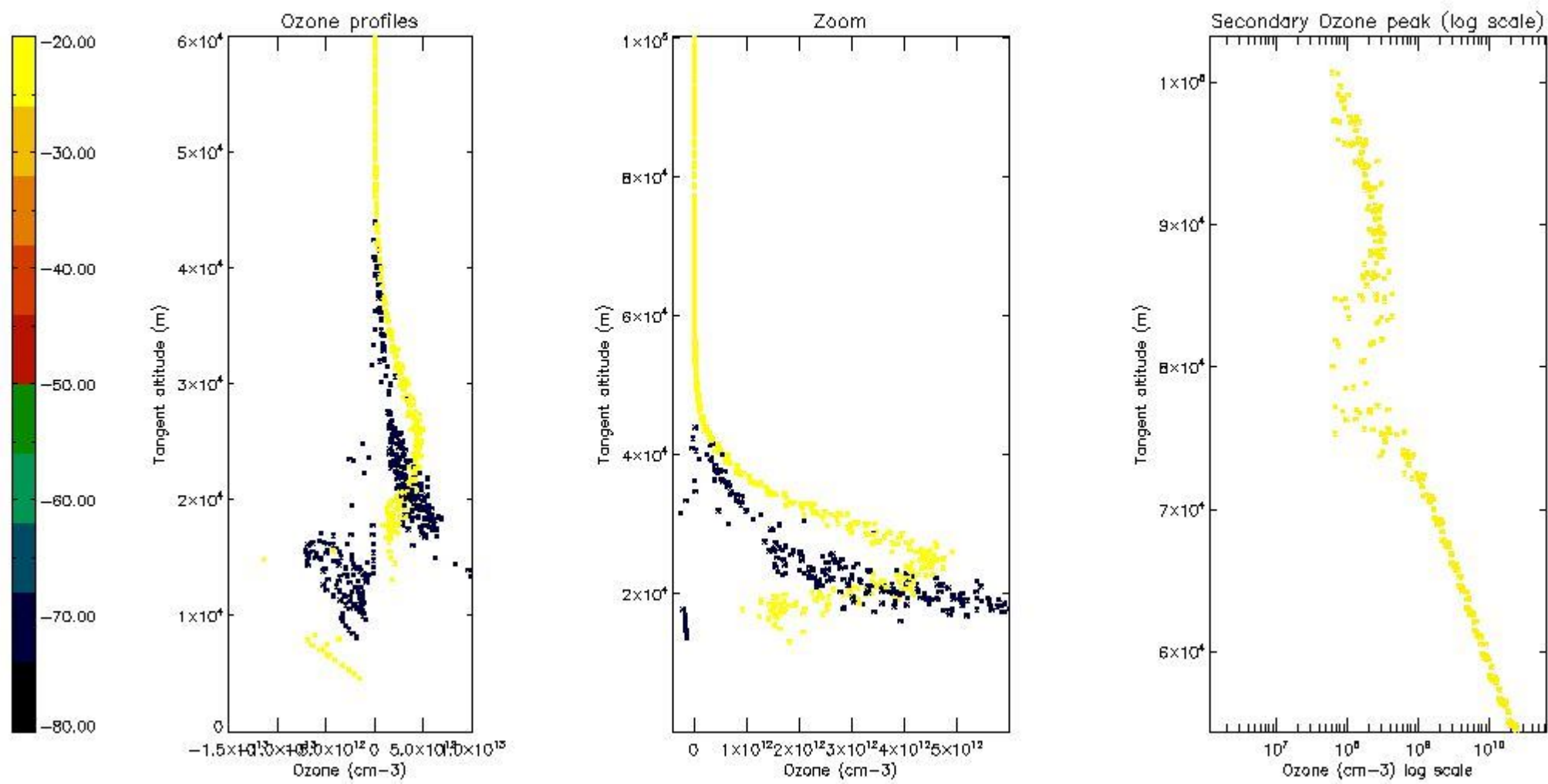
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



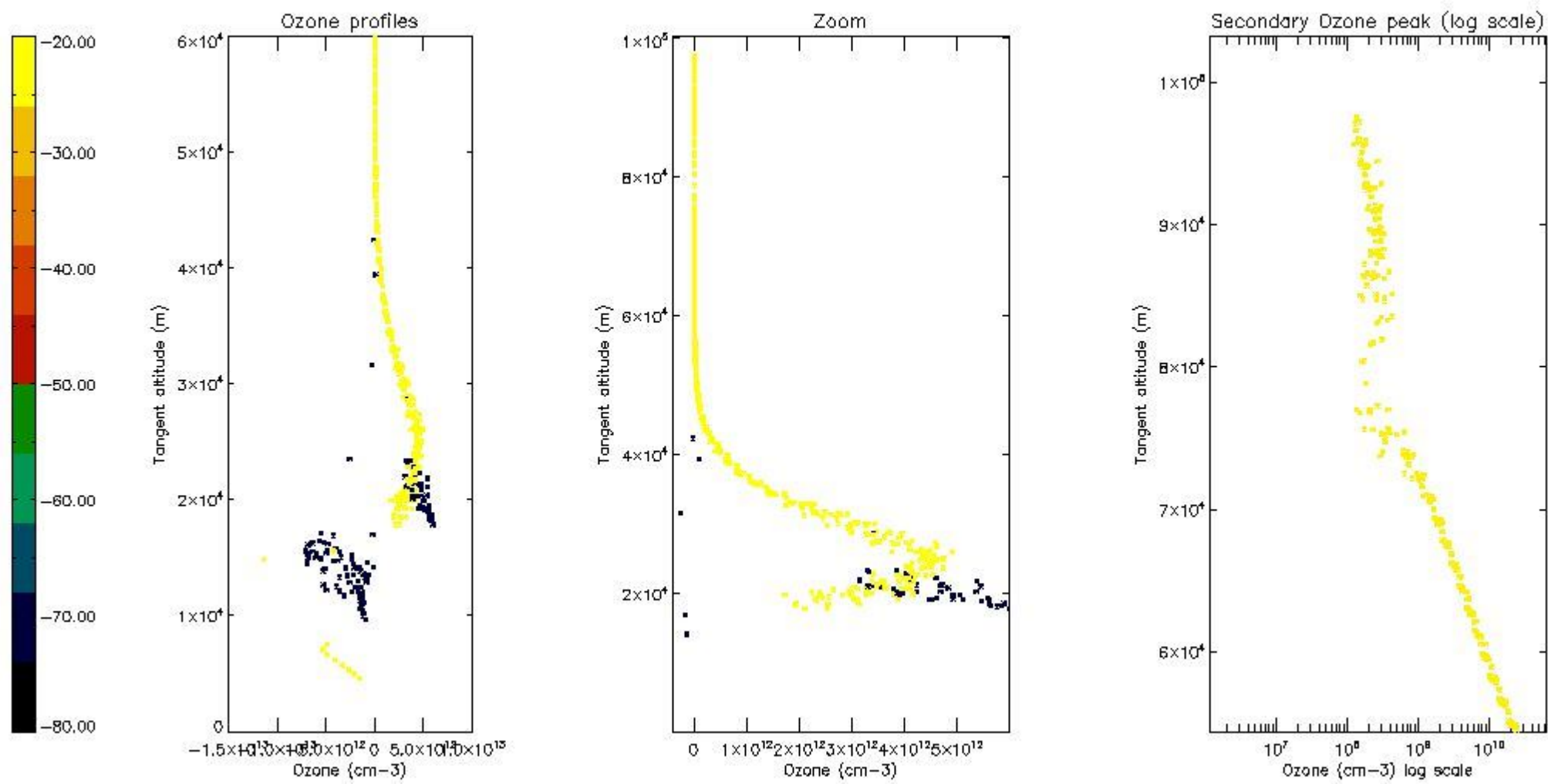
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



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

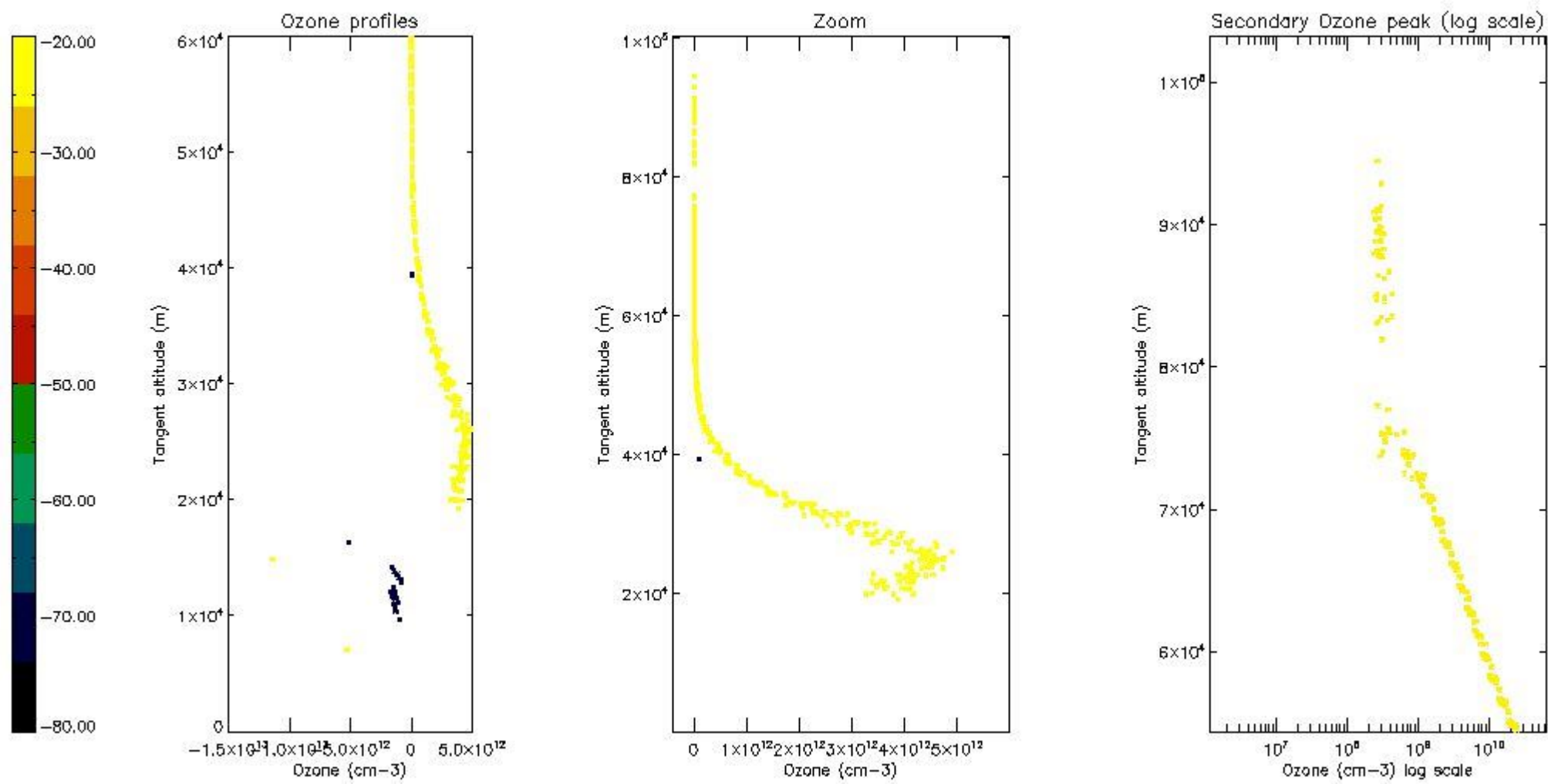
The colorbar represents the latitude.



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

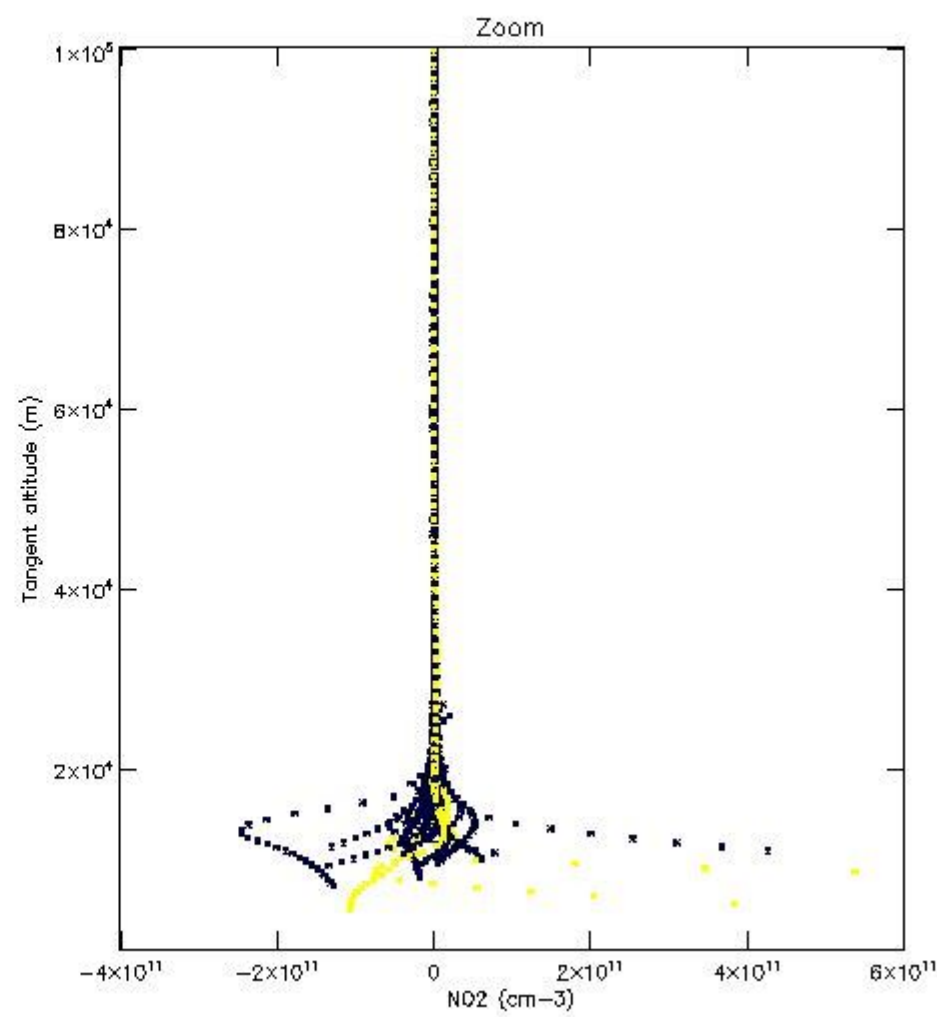
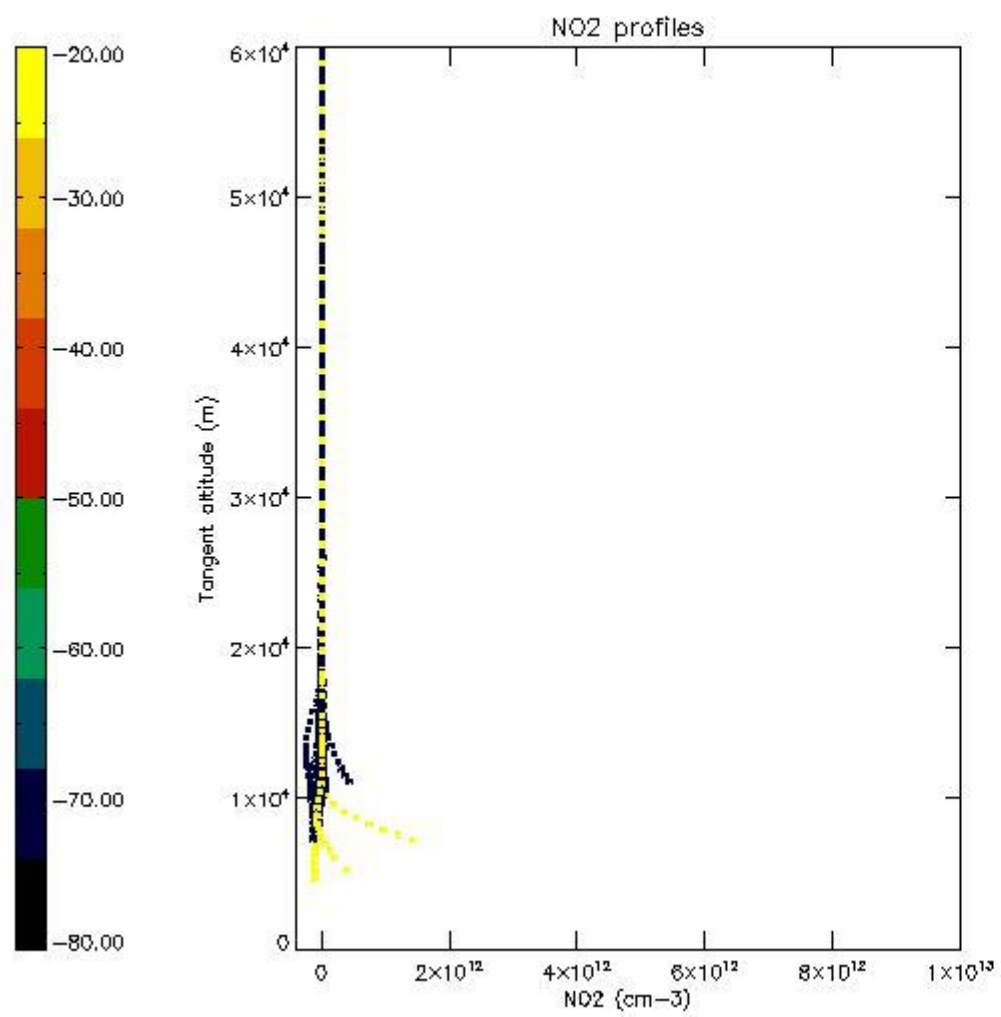
The colorbar represents the latitude.





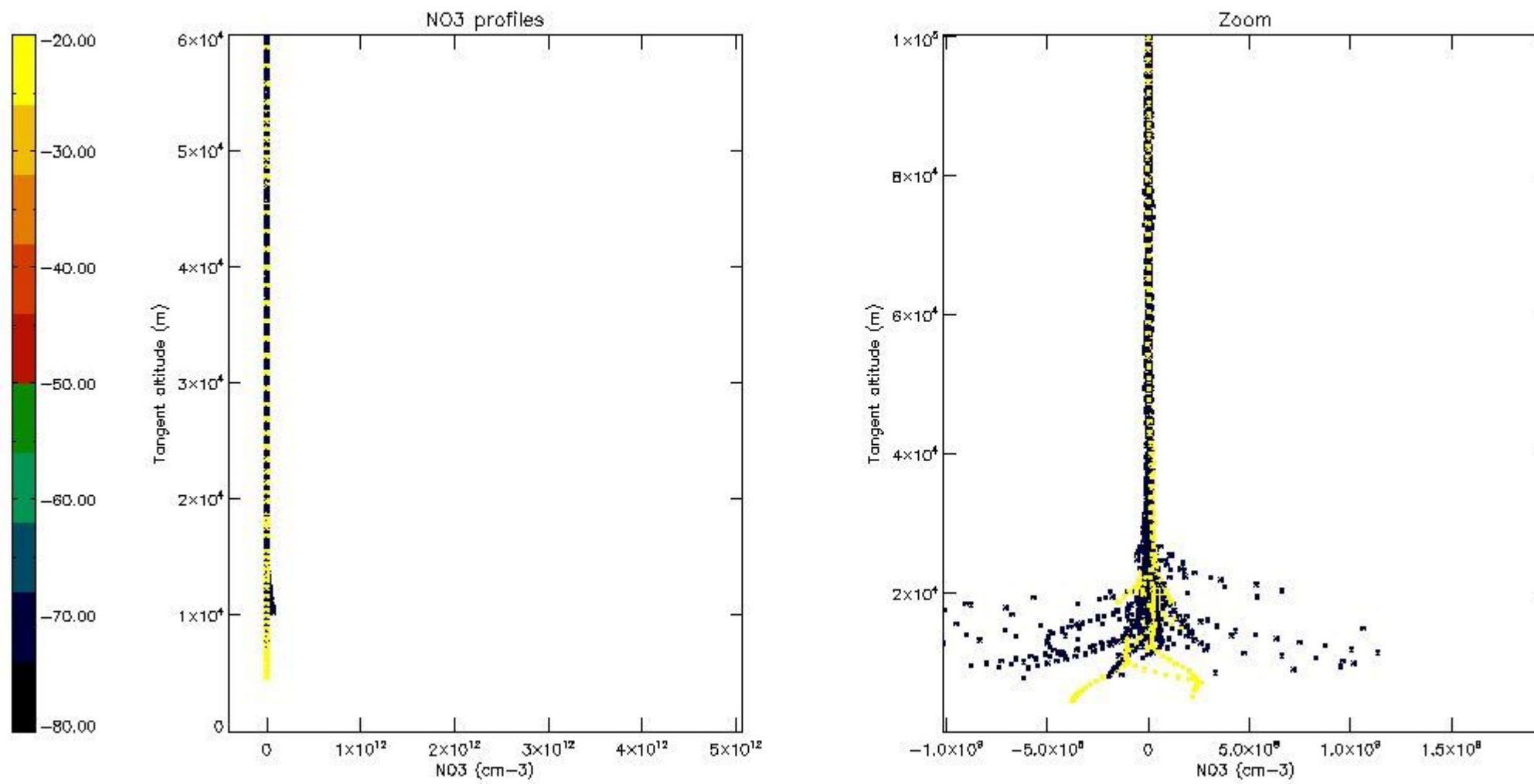
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

The colorbar represents the latitude.



## 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	28-JUN-2007 00:04:36
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	28-JUN-2007 00:04:36
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	28-JUN-2007 00:04:36

# GOMOS Level 2 Daily Report

## SUMMARY

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

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

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

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

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

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

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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 21:14:29
Data source version	GOMOS/6.01
Start time of products	28-06-2007 (28JUN2007 00:00:00)
Stop time of products	29-06-2007 (29JUN2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	307
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__2PRFIN20070628_000436_000000362059_00231_27840_4263.N1	28-JUN-2007 00:04:36	Bright	36.000	86	35Eta Oph	2.4300	10200.	72	27840	No
2	GOM_NL__2PRFIN20070628_000620_000000362059_00231_27840_4264.N1	28-JUN-2007 00:06:20	Bright	35.500	98	13Zet Oph	2.5710	30000.	71	27840	No
3	GOM_NL__2PRFIN20070628_001246_000000382059_00231_27840_4265.N1	28-JUN-2007 00:12:46	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	27840	No
4	GOM_NL__2PRFIN20070628_001519_000000372059_00231_27840_4266.N1	28-JUN-2007 00:15:19	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	27840	No
5	GOM_NL__2PRFIN20070628_001806_000000372059_00231_27840_4267.N1	28-JUN-2007 00:18:06	Bright	36.500	133	40Zet Her	2.8070	6000.0	73	27840	No
6	GOM_NL__2PRFIN20070628_002419_000000372059_00231_27840_4268.N1	28-JUN-2007 00:24:19	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	27840	No
7	GOM_NL__2PRFIN20070628_002632_000000362059_00231_27840_4269.N1	28-JUN-2007 00:26:32	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	27840	No
8	GOM_NL__2PRFIN20070628_003025_000000362059_00231_27840_4270.N1	28-JUN-2007 00:30:25	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	27840	No
9	GOM_NL__2PRFIN20070628_003446_000000332059_00231_27840_4271.N1	28-JUN-2007 00:34:46	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	27840	No
10	GOM_NL__2PRFIN20070628_004505_000000552059_00231_27840_4272.N1	28-JUN-2007 00:45:05	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	27840	No
11	GOM_NL__2PRFIN20070628_004644_000000322059_00231_27840_4273.N1	28-JUN-2007 00:46:44	Bright	32.000	175	39Del Per	3.0100	19400.	64	27840	No
12	GOM_NL__2PRFIN20070628_004853_000000372059_00231_27840_4274.N1	28-JUN-2007 00:48:53	Bright	36.500	79	26Bet Per	2.3100	13100.	73	27840	No
13	GOM_NL__2PRFIN20070628_005958_000000472059_00231_27840_4275.N1	28-JUN-2007 00:59:58	Dark	47.000	94	92Alp Cet	2.5260	3100.0	94	27840	No
14	GOM_NL__2PRFIN20070628_010349_000000372059_00231_27840_4276.N1	28-JUN-2007 01:03:49	Dark	36.500	165	34Gam Eri	2.9500	3200.0	73	27840	No
15	GOM_NL__2PRFIN20070628_011809_000000422059_00232_27841_4281.N1	28-JUN-2007 01:18:09	Dark	41.500	9	Alp Eri	0.45300	24000.	83	27841	No
16	GOM_NL__2PRFIN20070628_012531_000000412059_00232_27841_4282.N1	28-JUN-2007 01:25:31	Straylight	40.500	148	Alp Tuc	2.8780	4100.0	81	27841	No
17	GOM_NL__2PRFIN20070628_012957_000000422059_00232_27841_4283.N1	28-JUN-2007 01:29:57	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	27841	No
18	GOM_NL__2PRFIN20070628_013529_000000382059_00232_27841_4284.N1	28-JUN-2007 01:35:29	Straylight	37.500	147	Alp Ara	2.8770	26000.	75	27841	No
19	GOM_NL__2PRFIN20070628_013717_000000412059_00232_27841_4285.N1	28-JUN-2007 01:37:17	Twilight_stray	40.500	40	The Sco	1.8590	7100.0	81	27841	No
20	GOM_NL__2PRFIN20070628_013857_000000412059_00232_27841_4286.N1	28-JUN-2007 01:38:57	Twilight_stray	40.500	25	35Lam Sco	1.6200	28000.	81	27841	No
21	GOM_NL__2PRFIN20070628_014020_000000512059_00232_27841_4287.N1	28-JUN-2007 01:40:20	Bright	51.000	116	19Del Sgr	2.7000	4100.0	102	27841	No
22	GOM_NL__2PRFIN20070628_014512_000000372059_00232_27841_4288.N1	28-JUN-2007 01:45:12	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	27841	No
23	GOM_NL__2PRFIN20070628_014656_000000362059_00232_27841_4289.N1	28-JUN-2007 01:46:56	Bright	35.500	98	13Zet Oph	2.5710	30000.	71	27841	No
24	GOM_NL__2PRFIN20070628_015322_000000382059_00232_27841_4290.N1	28-JUN-2007 01:53:22	Bright	38.000	59	55Alp Oph	2.0800	8900.0	76	27841	No
25	GOM_NL__2PRFIN20070628_015554_000000372059_00232_27841_4291.N1	28-JUN-2007 01:55:54	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	27841	No
26	GOM_NL__2PRFIN20070628_015842_000000362059_00232_27841_4292.N1	28-JUN-2007 01:58:42	Bright	35.500	133	40Zet Her	2.8070	6000.0	71	27841	No
27	GOM_NL__2PRFIN20070628_020454_000000382059_00232_27841_4293.N1	28-JUN-2007 02:04:54	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	27841	No
28	GOM_NL__2PRFIN20070628_020708_000000362059_00232_27841_4294.N1	28-JUN-2007 02:07:08	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	27841	No
29	GOM_NL__2PRFIN20070628_021101_000000332059_00232_27841_4295.N1	28-JUN-2007 02:11:01	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	27841	No
30	GOM_NL__2PRFIN20070628_021522_000000352059_00232_27841_4296.N1	28-JUN-2007 02:15:22	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	27841	No
31	GOM_NL__2PRFIN20070628_022541_000000412059_00232_27841_4297.N1	28-JUN-2007 02:25:41	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	27841	No
32	GOM_NL__2PRFIN20070628_022719_000000352059_00232_27841_4298.N1	28-JUN-2007 02:27:19	Bright	34.500	175	39Del Per	3.0100	19400.	69	27841	No
33	GOM_NL__2PRFIN20070628_022929_000000372059_00232_27841_4299.N1	28-JUN-2007 02:29:29	Bright	37.000	79	26Bet Per	2.3100	13100.	74	27841	No
34	GOM_NL__2PRFIN20070628_024035_000000482059_00232_27841_4300.N1	28-JUN-2007 02:40:35	Dark	48.000	94	92Alp Cet	2.5260	3100.0	96	27841	No
35	GOM_NL__2PRFIN20070628_024425_000000372059_00232_27841_4301.N1	28-JUN-2007 02:44:25	Dark	37.000	165	34Gam Eri	2.9500	3200.0	74	27841	No
36	GOM_NL__2PRFIN20070628_025846_000000452059_00233_27842_4293.N1	28-JUN-2007 02:58:46	Dark	44.500	9	Alp Eri	0.45300	24000.	89	27842	No
37	GOM_NL__2PRFIN20070628_030607_000000422059_00233_27842_4294.N1	28-JUN-2007 03:06:07	Straylight	42.000	148	Alp Tuc	2.8780	4100.0	84	27842	No
38	GOM_NL__2PRFIN20070628_031034_000000432059_00233_27842_4295.N1	28-JUN-2007 03:10:34	Straylight	43.000	45	Alp Pav	1.9400	26000.	86	27842	No
39	GOM_NL__2PRFIN20070628_031606_000000372059_00233_27842_4296.N1	28-JUN-2007 03:16:06	Straylight	37.000	147	Alp Ara	2.8770	26000.	74	27842	No
40	GOM_NL__2PRFIN20070628_031753_000000422059_00233_27842_4297.N1	28-JUN-2007 03:17:53	Twilight_stray	41.500	40	The Sco	1.8590	7100.0	83	27842	No
41	GOM_NL__2PRFIN20070628_031933_000000432059_00233_27842_4298.N1	28-JUN-2007 03:19:33	Twilight_stray	42.500	25	35Lam Sco	1.6200	28000.	85	27842	No
42	GOM_NL__2PRFIN20070628_032056_000000522059_00233_27842_4299.N1	28-JUN-2007 03:20:56	Bright	52.000	116	19Del Sgr	2.7000	4100.0	104	27842	No









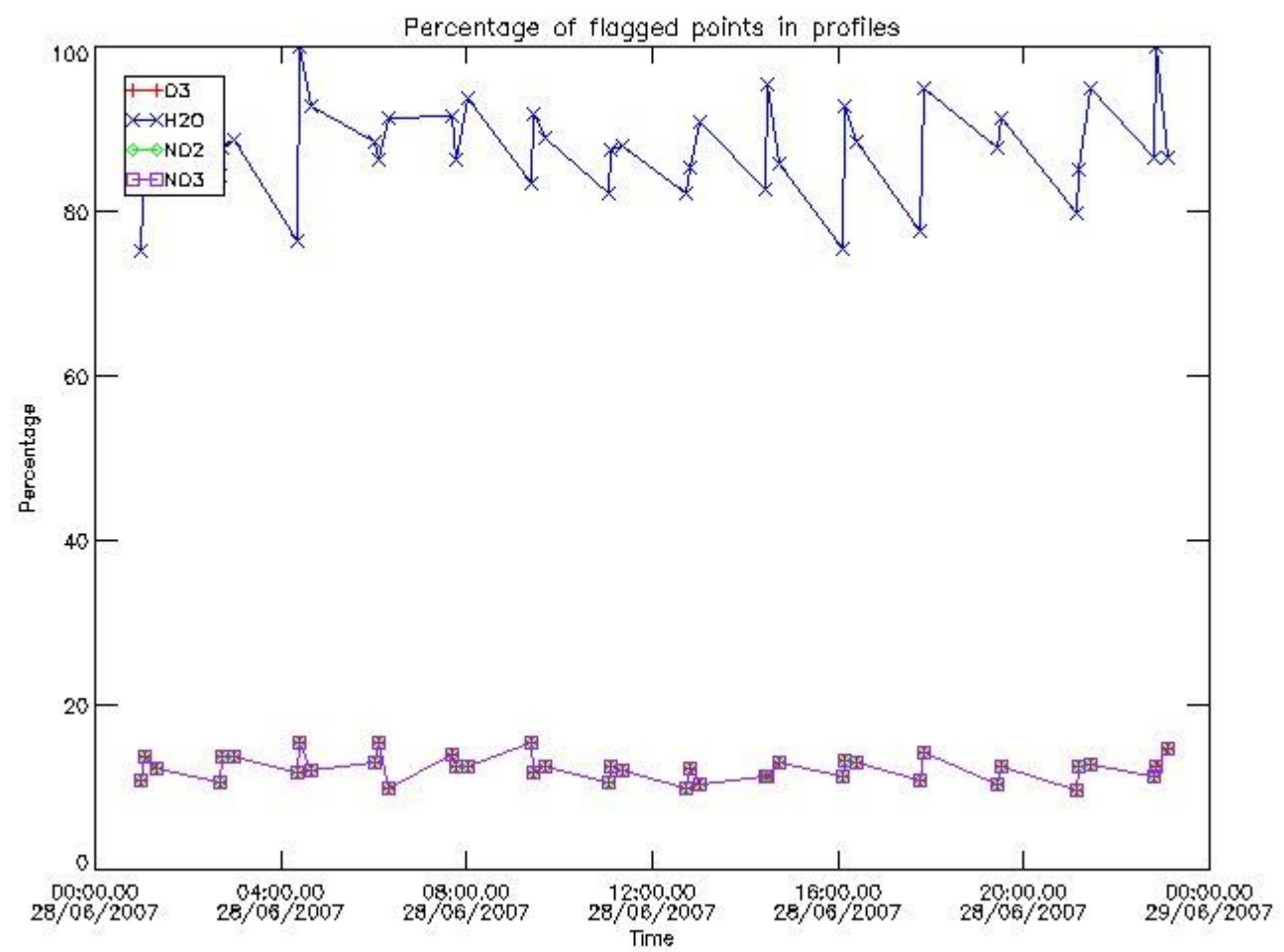
220	GOM_NL__2PRFIN20070628_171231_000000342059_00241_27850_4463.N1	28-JUN-2007 17:12:31	Bright	34.000	119	14Eta Dra	2.7270	4700.0	68	27850	No
221	GOM_NL__2PRFIN20070628_171626_000000362059_00241_27850_4464.N1	28-JUN-2007 17:16:26	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	27850	No
222	GOM_NL__2PRFIN20070628_172045_000000362059_00241_27850_4465.N1	28-JUN-2007 17:20:45	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	27850	No
223	GOM_NL__2PRFIN20070628_173104_000000352059_00241_27850_4466.N1	28-JUN-2007 17:31:04	Bright	35.000	160	23Gam Per	2.9300	4700.0	70	27850	No
224	GOM_NL__2PRFIN20070628_173244_000000342059_00241_27850_4467.N1	28-JUN-2007 17:32:44	Bright	33.500	175	39Del Per	3.0100	19400.	67	27850	No
225	GOM_NL__2PRFIN20070628_173453_000000442059_00241_27850_4468.N1	28-JUN-2007 17:34:53	Bright	43.500	79	26Bet Per	2.3100	13100.	87	27850	No
226	GOM_NL__2PRFIN20070628_174601_000000482059_00241_27850_4469.N1	28-JUN-2007 17:46:01	Dark	47.500	94	92Alp Cet	2.5260	3100.0	95	27850	No
227	GOM_NL__2PRFIN20070628_174951_000000402059_00241_27850_4470.N1	28-JUN-2007 17:49:51	Dark	39.500	165	34Gam Eri	2.9500	3200.0	79	27850	No
228	GOM_NL__2PRFIN20070628_181136_000000422059_00242_27851_4479.N1	28-JUN-2007 18:11:36	Straylight	42.000	148	Alp Tuc	2.8780	4100.0	84	27851	No
229	GOM_NL__2PRFIN20070628_181602_000000402059_00242_27851_4480.N1	28-JUN-2007 18:16:02	Straylight	40.000	45	Alp Pav	1.9400	26000.	80	27851	No
230	GOM_NL__2PRFIN20070628_182131_000000382059_00242_27851_4481.N1	28-JUN-2007 18:21:31	Straylight	37.500	147	Alp Ara	2.8770	26000.	75	27851	No
231	GOM_NL__2PRFIN20070628_182319_000000382059_00242_27851_4482.N1	28-JUN-2007 18:23:19	Twi_and_stray	37.500	40	The Sco	1.8590	7100.0	75	27851	No
232	GOM_NL__2PRFIN20070628_182459_000000382059_00242_27851_4483.N1	28-JUN-2007 18:24:59	Twi_and_stray	38.000	25	35Lam Sco	1.6200	28000.	76	27851	No
233	GOM_NL__2PRFIN20070628_182622_000000432059_00242_27851_4484.N1	28-JUN-2007 18:26:22	Bright	43.000	116	19Del Sgr	2.7000	4100.0	86	27851	No
234	GOM_NL__2PRFIN20070628_183113_000000362059_00242_27851_4485.N1	28-JUN-2007 18:31:13	Bright	36.000	86	35Eta Oph	2.4300	10200.	72	27851	No
235	GOM_NL__2PRFIN20070628_183257_000000362059_00242_27851_4486.N1	28-JUN-2007 18:32:57	Bright	35.500	98	13Zet Oph	2.5710	30000.	71	27851	No
236	GOM_NL__2PRFIN20070628_183659_000000372059_00242_27851_4487.N1	28-JUN-2007 18:36:59	Bright	37.000	126	60Bet Oph	2.7700	4250.0	74	27851	No
237	GOM_NL__2PRFIN20070628_183920_000000372059_00242_27851_4488.N1	28-JUN-2007 18:39:20	Bright	36.500	59	55Alp Oph	2.0800	8900.0	73	27851	No
238	GOM_NL__2PRFIN20070628_184155_000000372059_00242_27851_4489.N1	28-JUN-2007 18:41:55	Bright	37.000	127	27Bet Her	2.7810	4700.0	74	27851	No
239	GOM_NL__2PRFIN20070628_184442_000000342059_00242_27851_4490.N1	28-JUN-2007 18:44:42	Bright	33.500	133	40Zet Her	2.8070	6000.0	67	27851	No
240	GOM_NL__2PRFIN20070628_185052_000000382059_00242_27851_4491.N1	28-JUN-2007 18:50:52	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	27851	No
241	GOM_NL__2PRFIN20070628_185307_000000362059_00242_27851_4492.N1	28-JUN-2007 18:53:07	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	27851	No
242	GOM_NL__2PRFIN20070628_185702_000000352059_00242_27851_4493.N1	28-JUN-2007 18:57:02	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	27851	No
243	GOM_NL__2PRFIN20070628_190121_000000372059_00242_27851_4494.N1	28-JUN-2007 19:01:21	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	27851	No
244	GOM_NL__2PRFIN20070628_191140_000000402059_00242_27851_4495.N1	28-JUN-2007 19:11:40	Bright	40.000	160	23Gam Per	2.9300	4700.0	80	27851	No
245	GOM_NL__2PRFIN20070628_191320_000000512059_00242_27851_4496.N1	28-JUN-2007 19:13:20	Bright	51.000	175	39Del Per	3.0100	19400.	102	27851	No
246	GOM_NL__2PRFIN20070628_191529_000000382059_00242_27851_4497.N1	28-JUN-2007 19:15:29	Bright	38.000	79	26Bet Per	2.3100	13100.	76	27851	No
247	GOM_NL__2PRFIN20070628_192638_000000502059_00242_27851_4498.N1	28-JUN-2007 19:26:38	Dark	49.500	94	92Alp Cet	2.5260	3100.0	99	27851	No
248	GOM_NL__2PRFIN20070628_193027_000000412059_00242_27851_4499.N1	28-JUN-2007 19:30:27	Dark	41.000	165	34Gam Eri	2.9500	3200.0	82	27851	No
249	GOM_NL__2PRFIN20070628_195213_000000412059_00243_27852_4495.N1	28-JUN-2007 19:52:13	Straylight	40.500	148	Alp Tuc	2.8780	4100.0	81	27852	No
250	GOM_NL__2PRFIN20070628_195638_000000402059_00243_27852_4496.N1	28-JUN-2007 19:56:38	Straylight	39.500	45	Alp Pav	1.9400	26000.	79	27852	No
251	GOM_NL__2PRFIN20070628_200207_000000372059_00243_27852_4497.N1	28-JUN-2007 20:02:07	Straylight	36.500	147	Alp Ara	2.8770	26000.	73	27852	No
252	GOM_NL__2PRFIN20070628_200355_000000442059_00243_27852_4498.N1	28-JUN-2007 20:03:55	Twi_and_stray	43.500	40	The Sco	1.8590	7100.0	87	27852	No
253	GOM_NL__2PRFIN20070628_200535_000000402059_00243_27852_4499.N1	28-JUN-2007 20:05:35	Twi_and_stray	40.000	25	35Lam Sco	1.6200	28000.	80	27852	No
254	GOM_NL__2PRFIN20070628_200658_000000492059_00243_27852_4500.N1	28-JUN-2007 20:06:58	Bright	49.000	116	19Del Sgr	2.7000	4100.0	98	27852	No
255	GOM_NL__2PRFIN20070628_201149_000000362059_00243_27852_4501.N1	28-JUN-2007 20:11:49	Bright	35.500	86	35Eta Oph	2.4300	10200.	71	27852	No
256	GOM_NL__2PRFIN20070628_201333_000000362059_00243_27852_4502.N1	28-JUN-2007 20:13:33	Bright	35.500	98	13Zet Oph	2.5710	30000.	71	27852	No
257	GOM_NL__2PRFIN20070628_201735_000000382059_00243_27852_4503.N1	28-JUN-2007 20:17:35	Bright	37.500	126	60Bet Oph	2.7700	4250.0	75	27852	No
258	GOM_NL__2PRFIN20070628_201956_000000382059_00243_27852_4504.N1	28-JUN-2007 20:19:56	Bright	38.000	59	55Alp Oph	2.0800	8900.0	76	27852	No
259	GOM_NL__2PRFIN20070628_202231_000000362059_00243_27852_4505.N1	28-JUN-2007 20:22:31	Bright	36.000	127	27Bet Her	2.7810	4700.0	72	27852	No
260	GOM_NL__2PRFIN20070628_202518_000000372059_00243_27852_4506.N1	28-JUN-2007 20:25:18	Bright	36.500	133	40Zet Her	2.8070	6000.0	73	27852	No
261	GOM_NL__2PRFIN20070628_203127_000000372059_00243_27852_4507.N1	28-JUN-2007 20:31:27	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	27852	No
262	GOM_NL__2PRFIN20070628_203343_000000362059_00243_27852_4508.N1	28-JUN-2007 20:33:43	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	27852	No
263	GOM_NL__2PRFIN20070628_203738_000000382059_00243_27852_4509.N1	28-JUN-2007 20:37:38	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	27852	No
264	GOM_NL__2PRFIN20070628_204157_000000372059_00243_27852_4510.N1	28-JUN-2007 20:41:57	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	27852	No
265	GOM_NL__2PRFIN20070628_205216_000000352059_00243_27852_4511.N1	28-JUN-2007 20:52:16	Bright	34.500	160	23Gam Per	2.9300	4700.0	69	27852	No
266	GOM_NL__2PRFIN20070628_205356_000000332059_00243_27852_4512.N1	28-JUN-2007 20:53:56	Bright	33.000	175	39Del Per	3.0100	19400.	66	27852	No
267	GOM_NL__2PRFIN20070628_205605_000000552059_00243_27852_4513.N1	28-JUN-2007 20:56:05	Bright	55.000	79	26Bet Per	2.3100	13100.	110	27852	No
268	GOM_NL__2PRFIN20070628_210714_000000532059_00243_27852_4514.N1	28-JUN-2007 21:07:14	Dark	52.500	94	92Alp Cet	2.5260	3100.0	105	27852	No
269	GOM_NL__2PRFIN20070628_211103_000000412059_00243_27852_4515.N1	28-JUN-2007 21:11:03	Dark	40.500	165	34Gam Eri	2.9500	3200.0	81	27852	No
270	GOM_NL__2PRFIN20070628_212526_000000402059_00244_27853_4511.N1	28-JUN-2007 21:25:26	Dark	40.000	9	Alp Eri	0.45300	24000.	80	27853	No
271	GOM_NL__2PRFIN20070628_213249_000000432059_00244_27853_4512.N1	28-JUN-2007 21:32:49	Straylight	42.500	148	Alp Tuc	2.8780	4100.0	85	27853	No
272	GOM_NL__2PRFIN20070628_213715_000000412059_00244_27853_4513.N1	28-JUN-2007 21:37:15	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	27853	No
273	GOM_NL__2PRFIN20070628_214243_000000362059_00244_27853_4514.N1	28-JUN-2007 21:42:43	Straylight	36.000	147	Alp Ara	2.8770	26000.	72	27853	No
274	GOM_NL__2PRFIN20070628_214431_000000412059_00244_27853_4515.N1	28-JUN-2007 21:44:31	Twi_and_stray	41.000	40	The Sco	1.8590	7100.0	82	27853	No
275	GOM_NL__2PRFIN20070628_214611_000000432059_00244_27853_4516.N1	28-JUN-2007 21:46:11	Twi_and_stray	42.500	25	35Lam Sco	1.6200	28000.	85	27853	No
276	GOM_NL__2PRFIN20070628_214734_000000552059_00244_27853_4517.N1	28-JUN-2007 21:47:34	Bright	55.000	116	19Del Sgr	2.7000	4100.0	110	27853	No
277	GOM_NL__2PRFIN20070628_215225_000000372059_00244_27853_4518.N1	28-JUN-2007 21:52:25	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	27853	No
278	GOM_NL__2PRFIN20070628_215409_000000362059_00244_27853_4519.N1	28-JUN-2007 21:54:09	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	27853	No

279	GOM_NL__2PRFIN20070628_215811_000000372059_00244_27853_4520.N1	28-JUN-2007 21:58:11	Bright	37.000	126	60Bet Oph	2.7700	4250.0	74	27853	No
280	GOM_NL__2PRFIN20070628_220032_000000372059_00244_27853_4521.N1	28-JUN-2007 22:00:32	Bright	36.500	59	55Alp Oph	2.0800	8900.0	73	27853	No
281	GOM_NL__2PRFIN20070628_220307_000000352059_00244_27853_4522.N1	28-JUN-2007 22:03:07	Bright	34.500	127	27Bet Her	2.7810	4700.0	69	27853	No
282	GOM_NL__2PRFIN20070628_220554_000000362059_00244_27853_4523.N1	28-JUN-2007 22:05:54	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	27853	No
283	GOM_NL__2PRFIN20070628_221203_000000382059_00244_27853_4524.N1	28-JUN-2007 22:12:03	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	27853	No
284	GOM_NL__2PRFIN20070628_221419_000000372059_00244_27853_4525.N1	28-JUN-2007 22:14:19	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	27853	No
285	GOM_NL__2PRFIN20070628_221814_000000372059_00244_27853_4526.N1	28-JUN-2007 22:18:14	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	27853	No
286	GOM_NL__2PRFIN20070628_222233_000000342059_00244_27853_4527.N1	28-JUN-2007 22:22:33	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	27853	No
287	GOM_NL__2PRFIN20070628_223252_000000432059_00244_27853_4528.N1	28-JUN-2007 22:32:52	Bright	43.000	160	23Gam Per	2.9300	4700.0	86	27853	No
288	GOM_NL__2PRFIN20070628_223432_000000452059_00244_27853_4529.N1	28-JUN-2007 22:34:32	Bright	44.500	175	39Del Per	3.0100	19400.	89	27853	No
289	GOM_NL__2PRFIN20070628_223640_000000402059_00244_27853_4530.N1	28-JUN-2007 22:36:40	Bright	40.000	79	26Bet Per	2.3100	13100.	80	27853	No
290	GOM_NL__2PRFIN20070628_224750_000000452059_00244_27853_4531.N1	28-JUN-2007 22:47:50	Dark	45.000	94	92Alp Cet	2.5260	3100.0	90	27853	No
291	GOM_NL__2PRFIN20070628_225139_000000402059_00244_27853_4532.N1	28-JUN-2007 22:51:39	Dark	40.000	165	34Gam Eri	2.9500	3200.0	80	27853	No
292	GOM_NL__2PRFIN20070628_230602_000000522059_00245_27854_4529.N1	28-JUN-2007 23:06:02	Dark	52.000	9	Alp Eri	0.45300	24000.	104	27854	No
293	GOM_NL__2PRFIN20070628_231325_000000412059_00245_27854_4530.N1	28-JUN-2007 23:13:25	Straylight	41.000	148	Alp Tuc	2.8780	4100.0	82	27854	No
294	GOM_NL__2PRFIN20070628_231751_000000402059_00245_27854_4531.N1	28-JUN-2007 23:17:51	Straylight	40.000	45	Alp Pav	1.9400	26000.	80	27854	No
295	GOM_NL__2PRFIN20070628_232319_000000392059_00245_27854_4532.N1	28-JUN-2007 23:23:19	Straylight	38.500	147	Alp Ara	2.8770	26000.	77	27854	No
296	GOM_NL__2PRFIN20070628_232507_000000402059_00245_27854_4533.N1	28-JUN-2007 23:25:07	Twi_and_stray	40.000	40	The Sco	1.8590	7100.0	80	27854	No
297	GOM_NL__2PRFIN20070628_232647_000000422059_00245_27854_4534.N1	28-JUN-2007 23:26:47	Twi_and_stray	41.500	25	35Lam Sco	1.6200	28000.	83	27854	No
298	GOM_NL__2PRFIN20070628_232810_000000432059_00245_27854_4535.N1	28-JUN-2007 23:28:10	Bright	43.000	116	19Del Sgr	2.7000	4100.0	86	27854	No
299	GOM_NL__2PRFIN20070628_233301_000000362059_00245_27854_4536.N1	28-JUN-2007 23:33:01	Bright	36.000	86	35Eta Oph	2.4300	10200.	72	27854	No
300	GOM_NL__2PRFIN20070628_233445_000000372059_00245_27854_4537.N1	28-JUN-2007 23:34:45	Bright	36.500	98	13Zet Oph	2.5710	30000.	73	27854	No
301	GOM_NL__2PRFIN20070628_233846_000000382059_00245_27854_4538.N1	28-JUN-2007 23:38:46	Bright	38.000	126	60Bet Oph	2.7700	4250.0	76	27854	No
302	GOM_NL__2PRFIN20070628_234107_000000382059_00245_27854_4539.N1	28-JUN-2007 23:41:07	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	27854	No
303	GOM_NL__2PRFIN20070628_234343_000000372059_00245_27854_4540.N1	28-JUN-2007 23:43:43	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	27854	No
304	GOM_NL__2PRFIN20070628_234630_000000362059_00245_27854_4541.N1	28-JUN-2007 23:46:30	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	27854	No
305	GOM_NL__2PRFIN20070628_235239_000000372059_00245_27854_4542.N1	28-JUN-2007 23:52:39	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	27854	No
306	GOM_NL__2PRFIN20070628_235455_000000362059_00245_27854_4543.N1	28-JUN-2007 23:54:55	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	27854	No
307	GOM_NL__2PRFIN20070628_235850_000000372059_00245_27854_4544.N1	28-JUN-2007 23:58:50	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	27854	No

### 3. Quality information per product

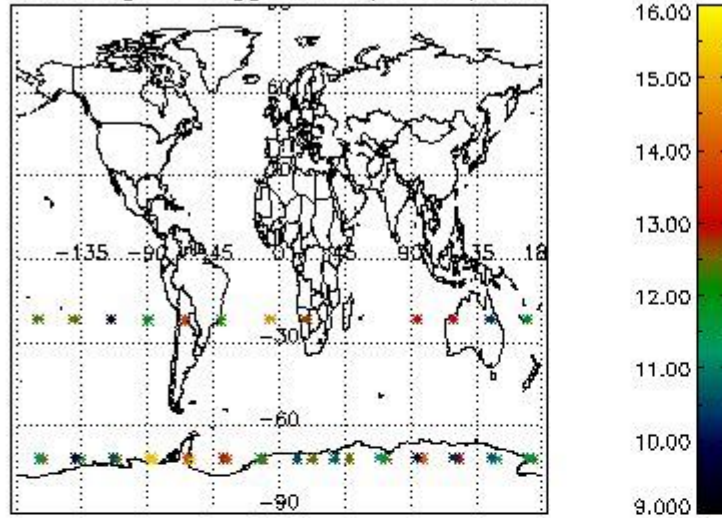
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

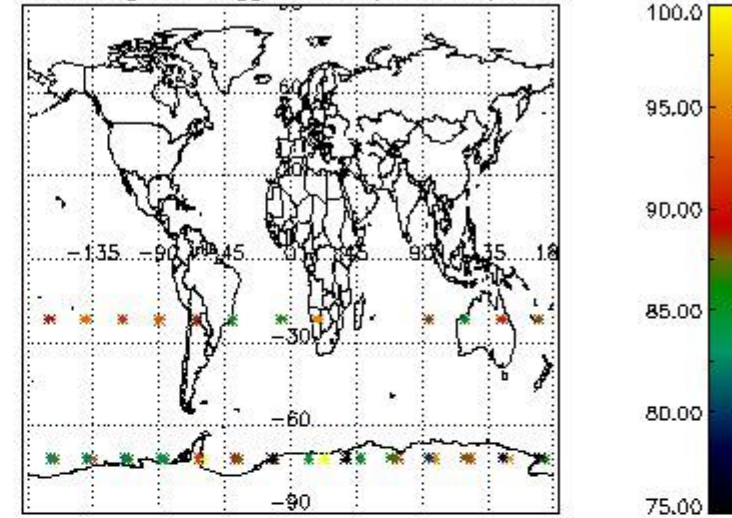


*3.2 Plot quality information per product (world map)*

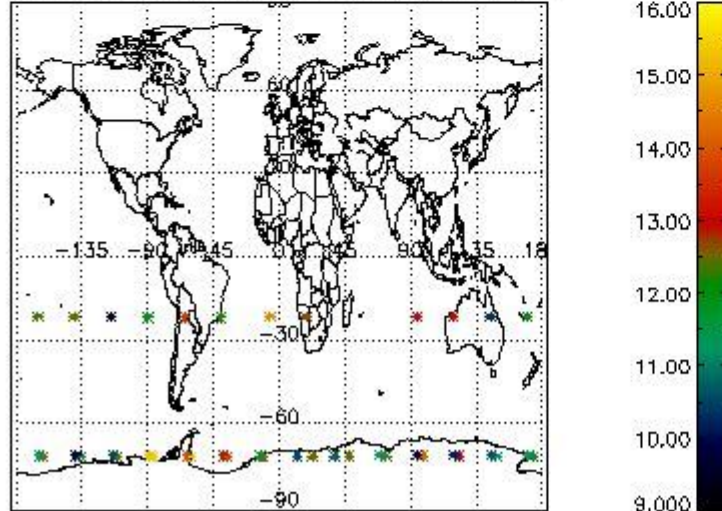
Percentage of flagged data per O3 profile



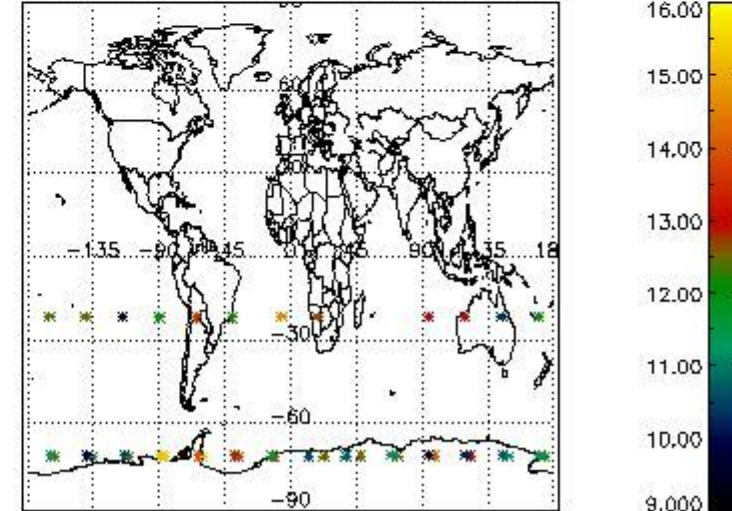
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

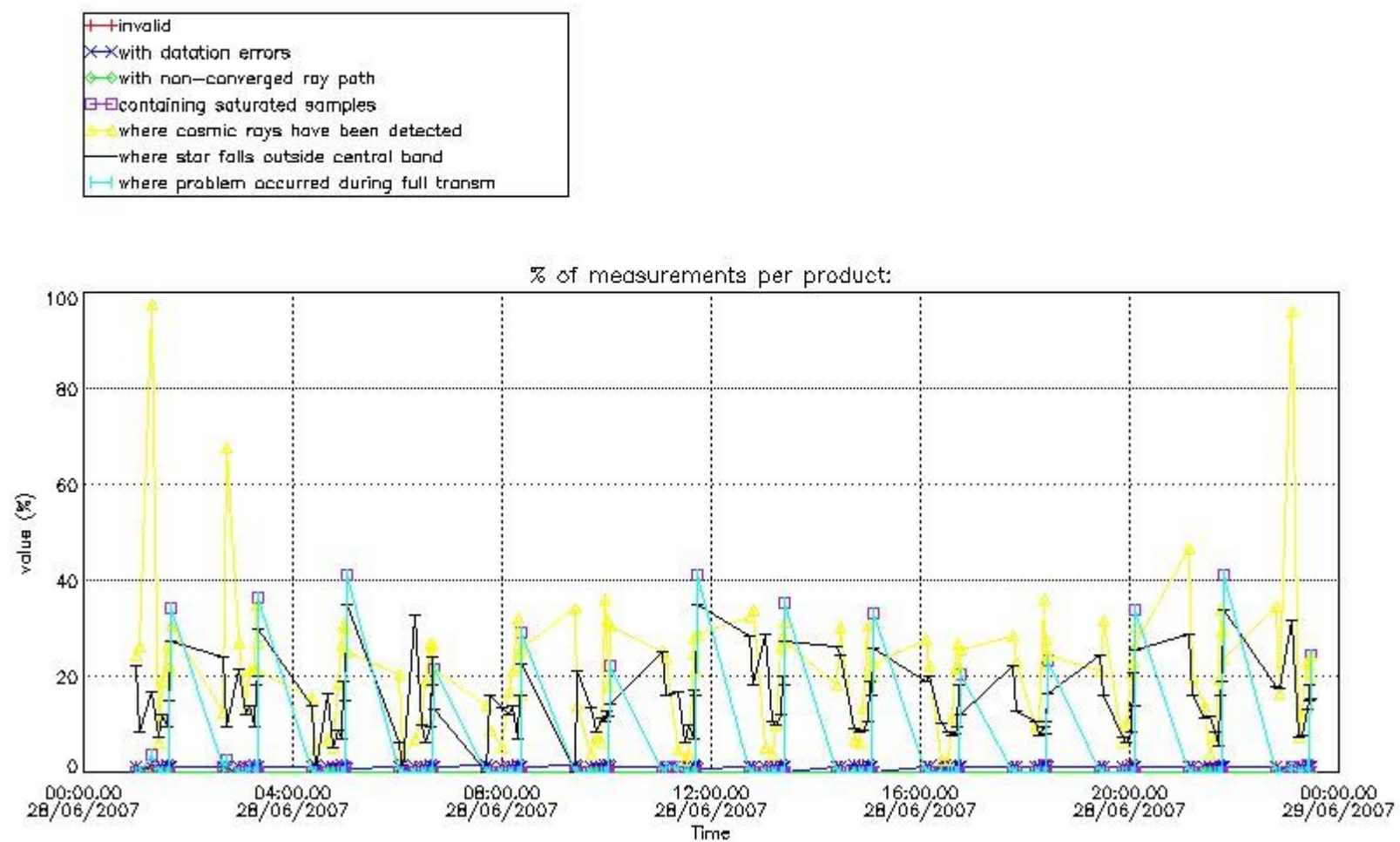


#### 4. Level 1 quality information per product

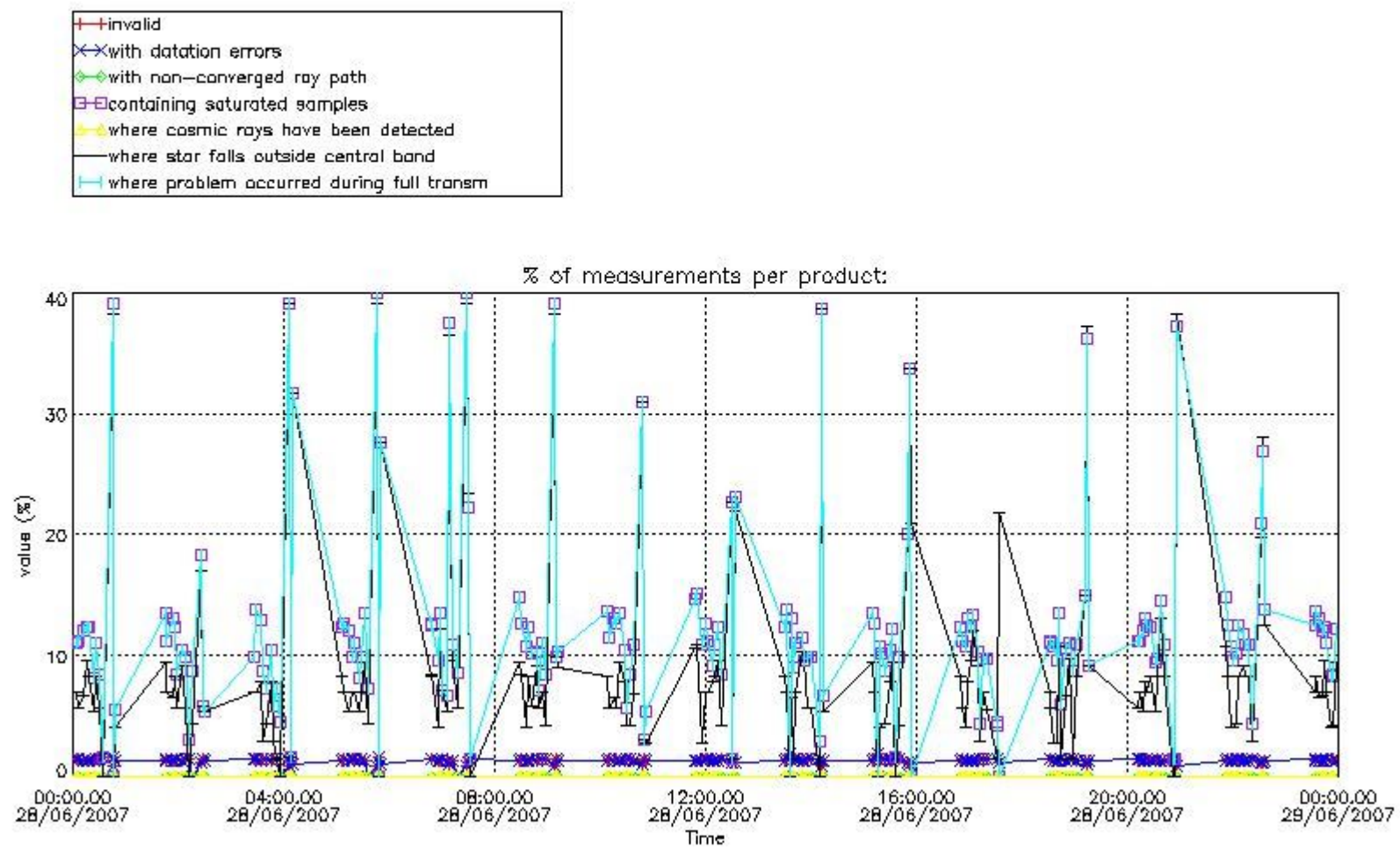
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



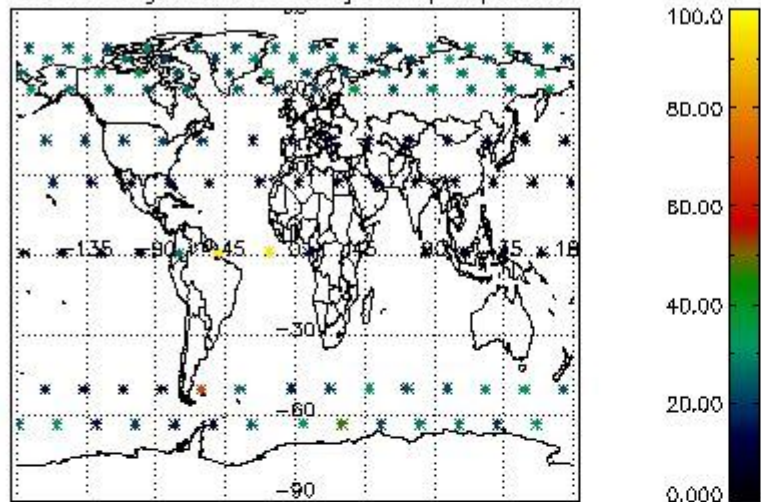
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



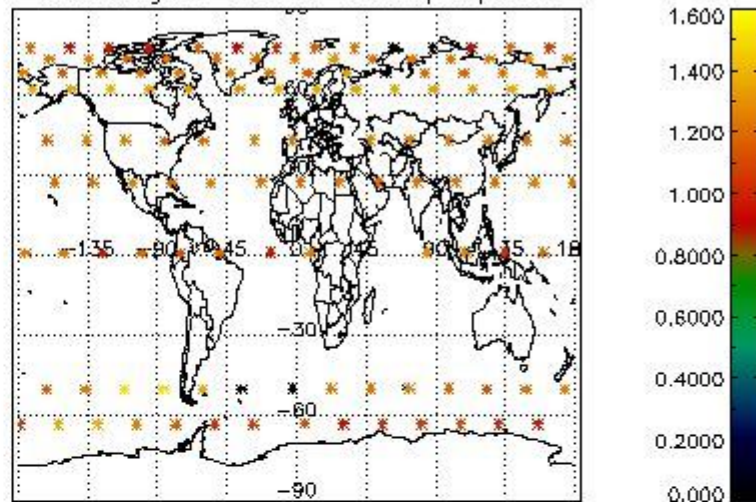
#### 4.2 Plot quality information per product coming from level 1b processing (world map)

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

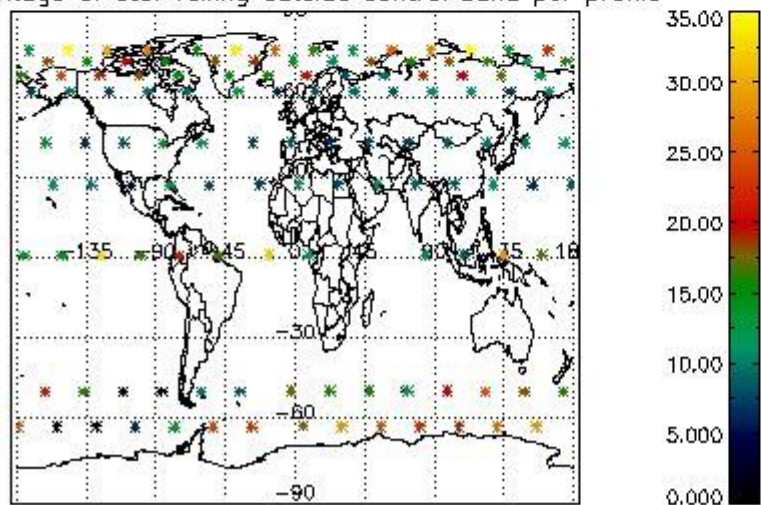
Percentage of cosmic ray hits per profile



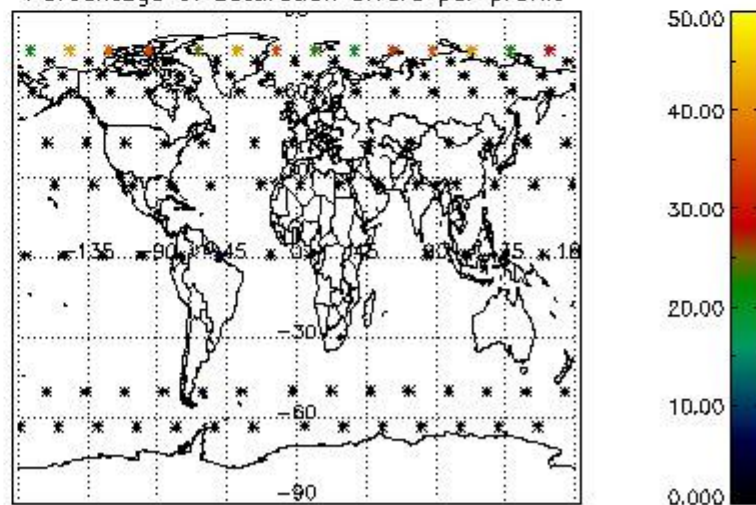
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

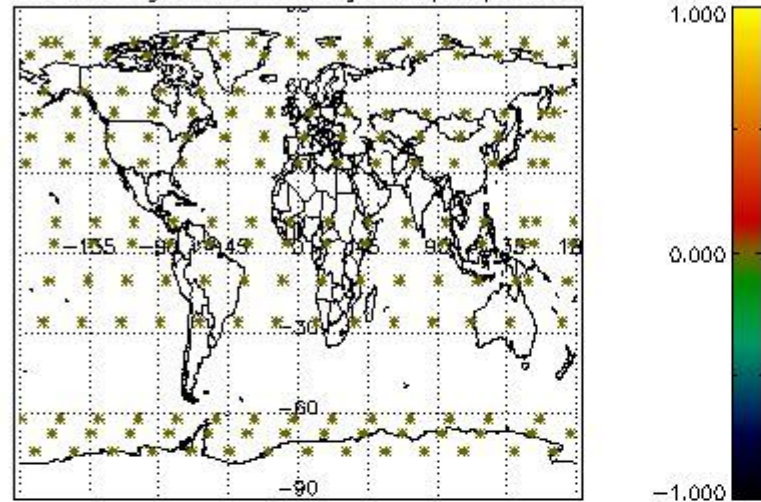


Percentage of saturation errors per profile

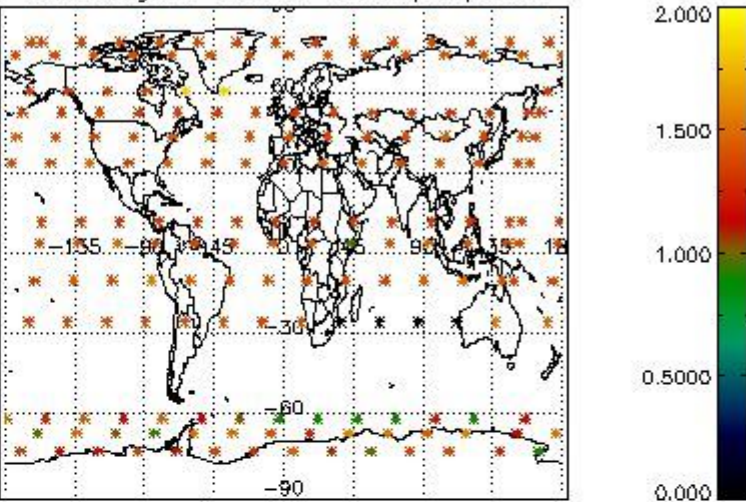


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

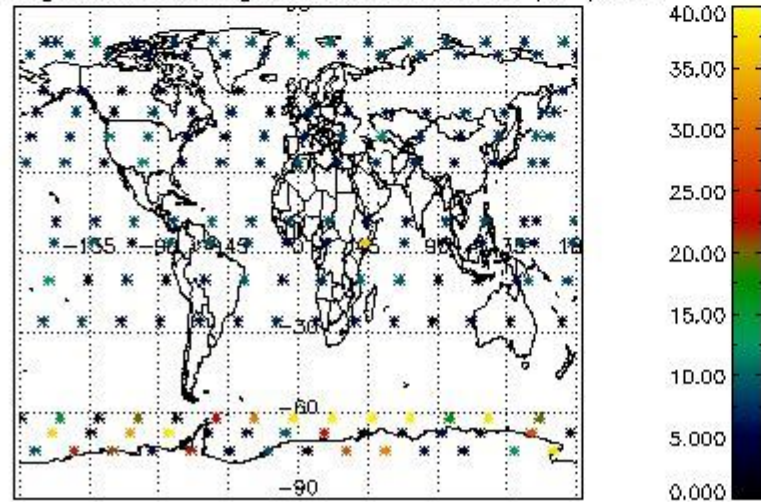
Percentage of cosmic ray hits per profile



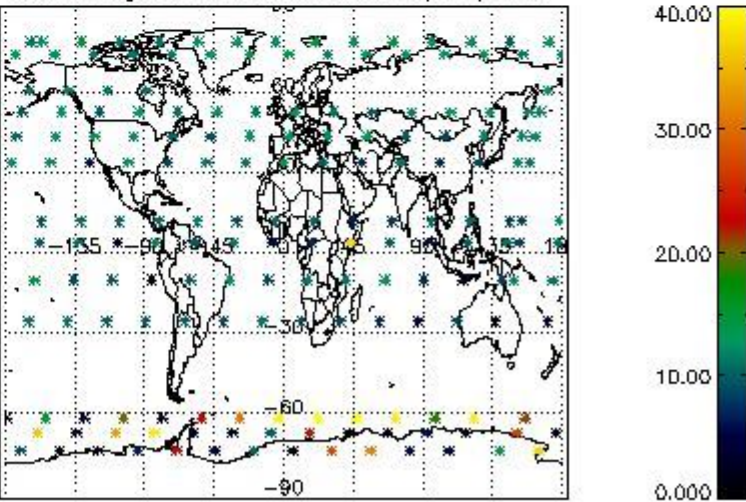
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

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

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

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

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

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

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

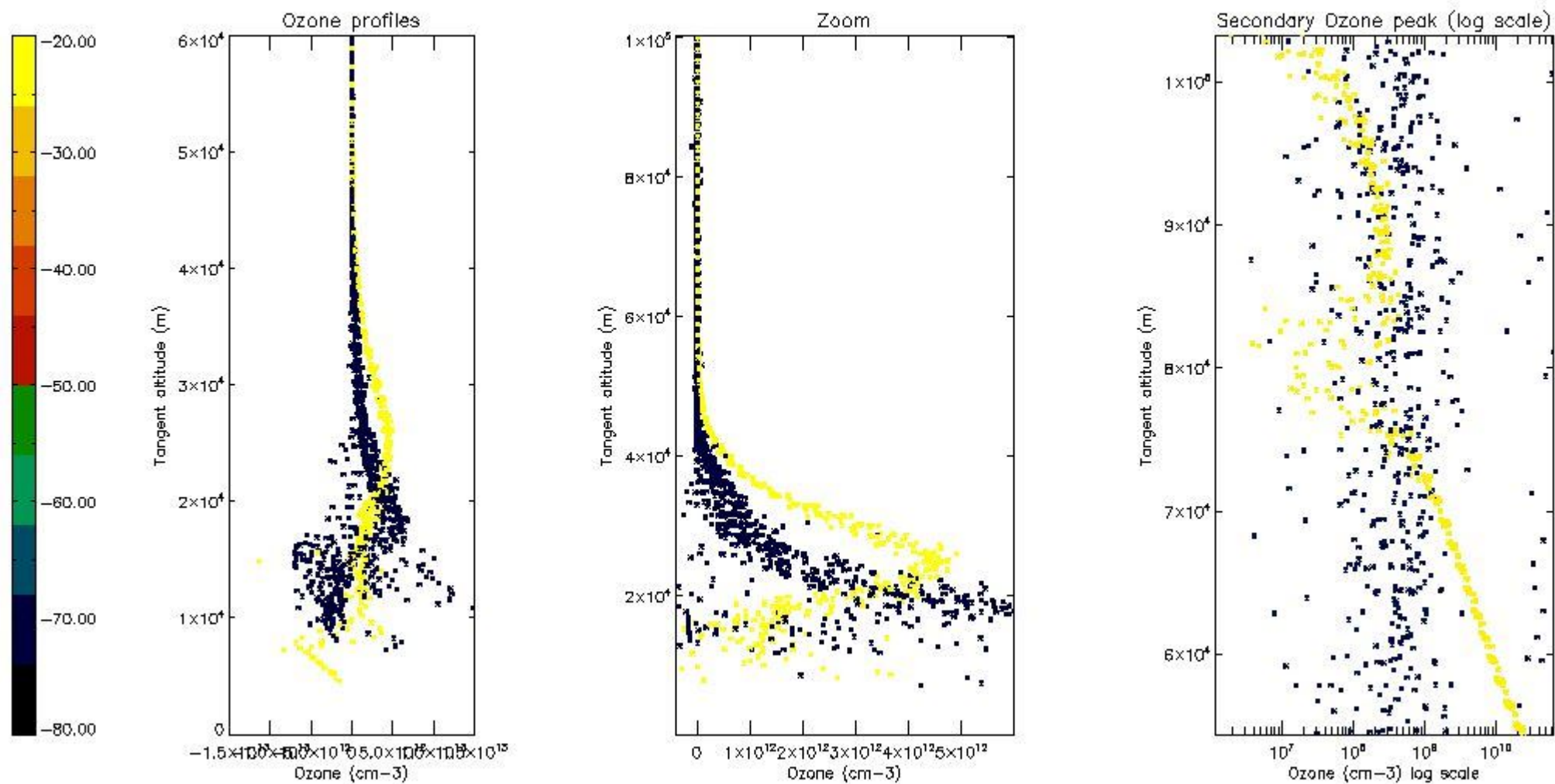
Criteria	% of total production
All STD	15
STD < 20	5



STD < 10	4
STD < 5	3

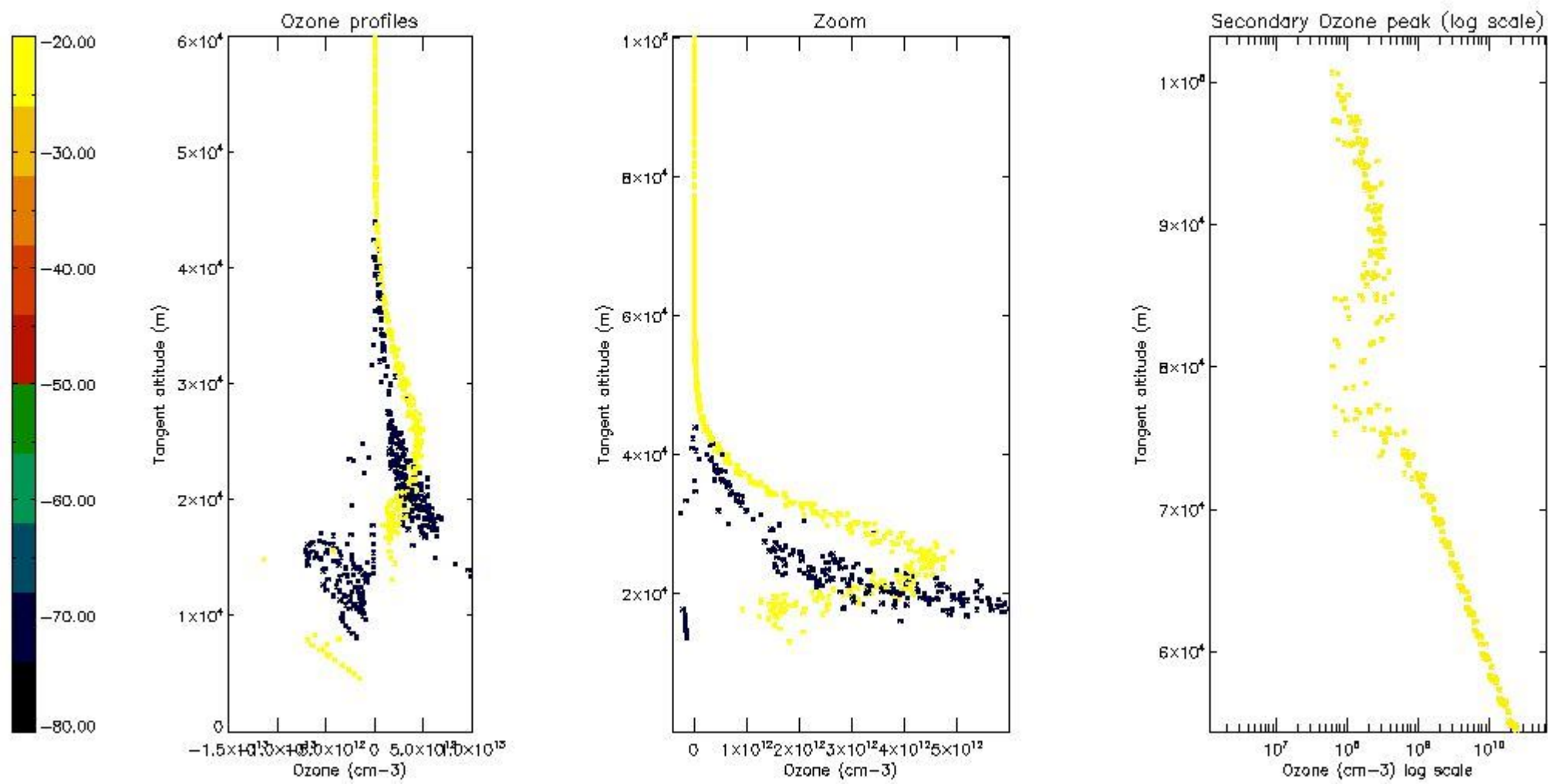
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



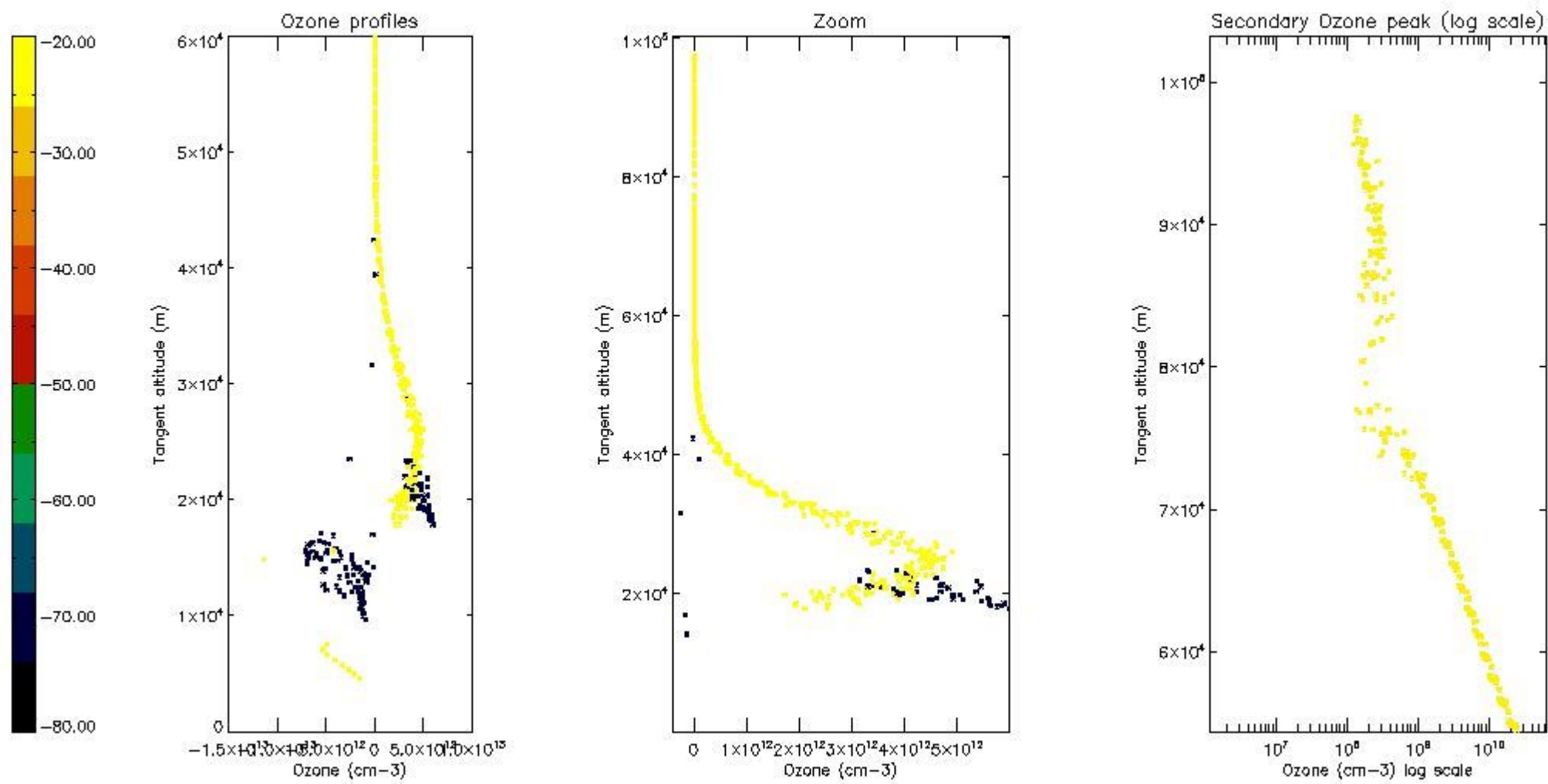
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



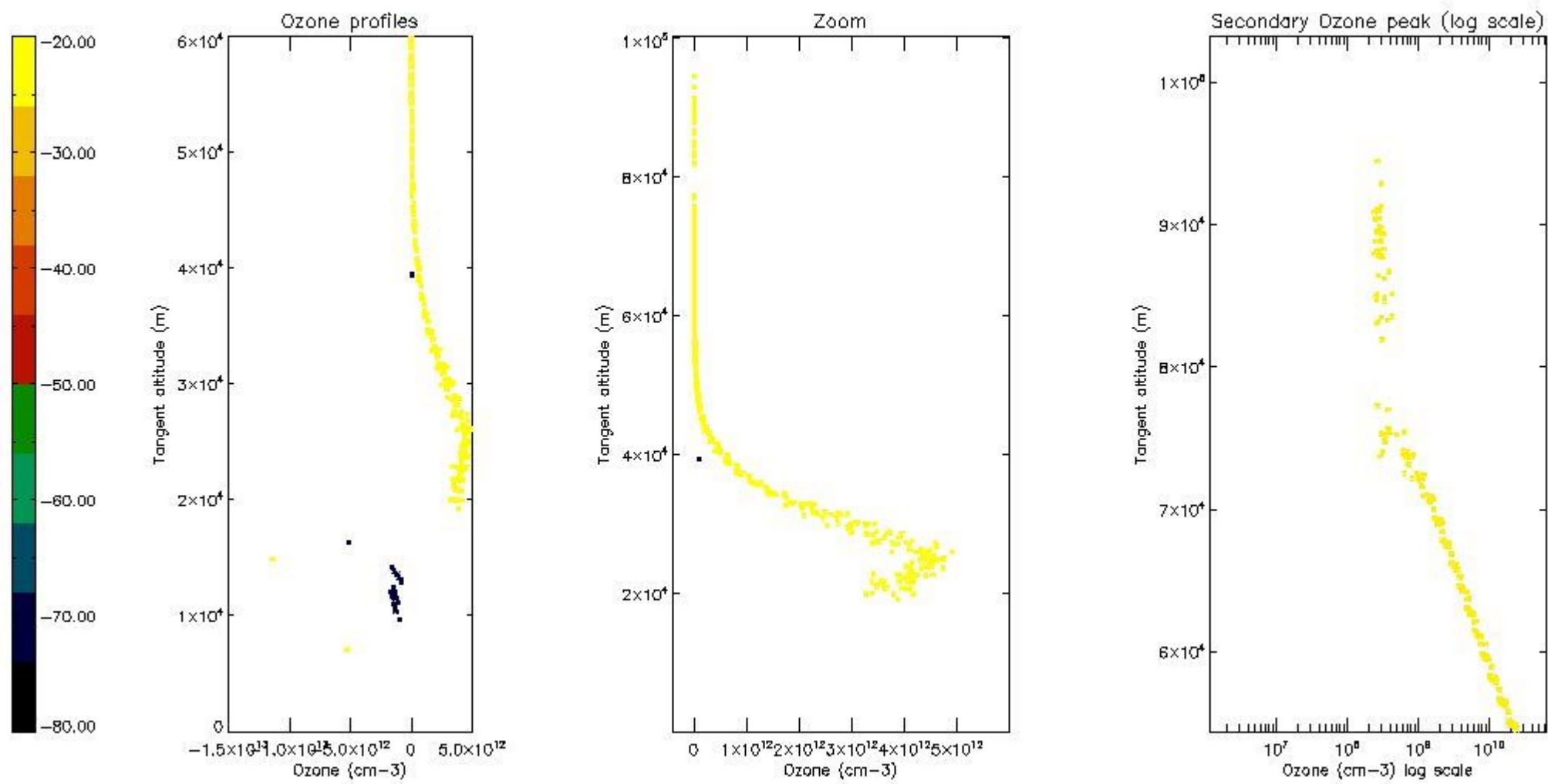
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



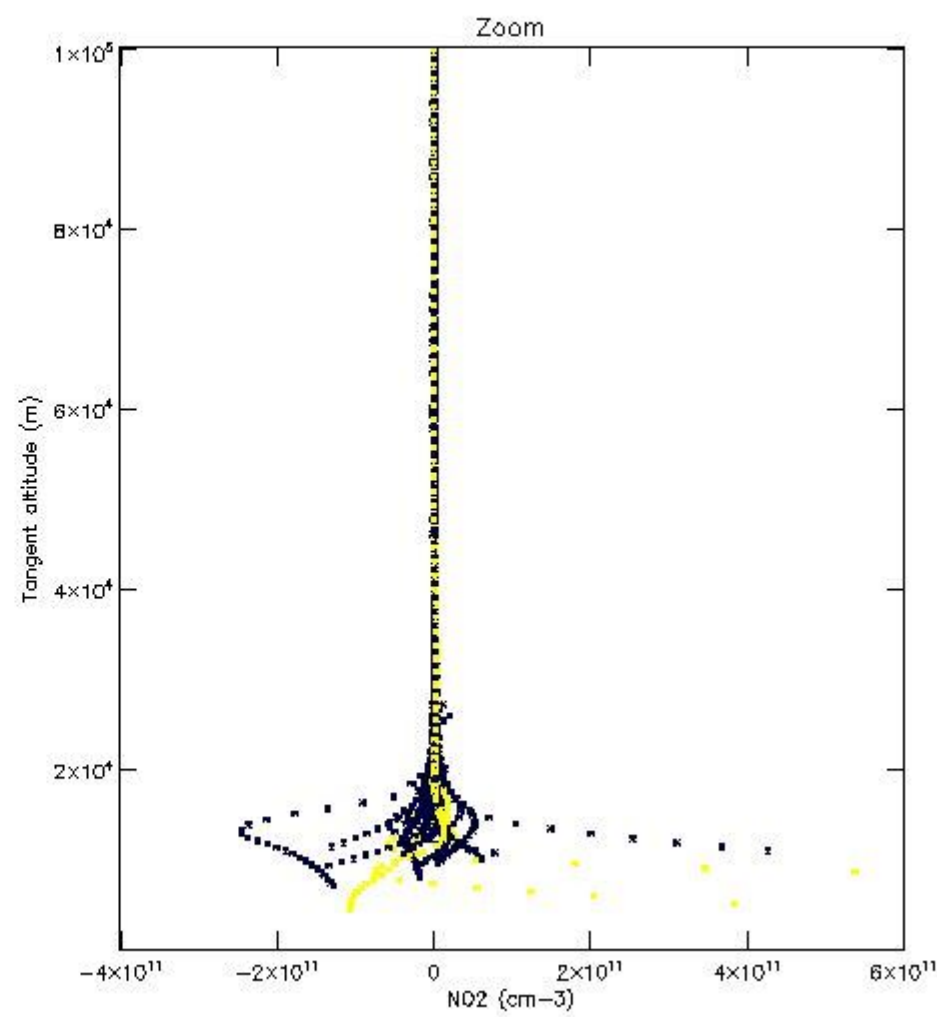
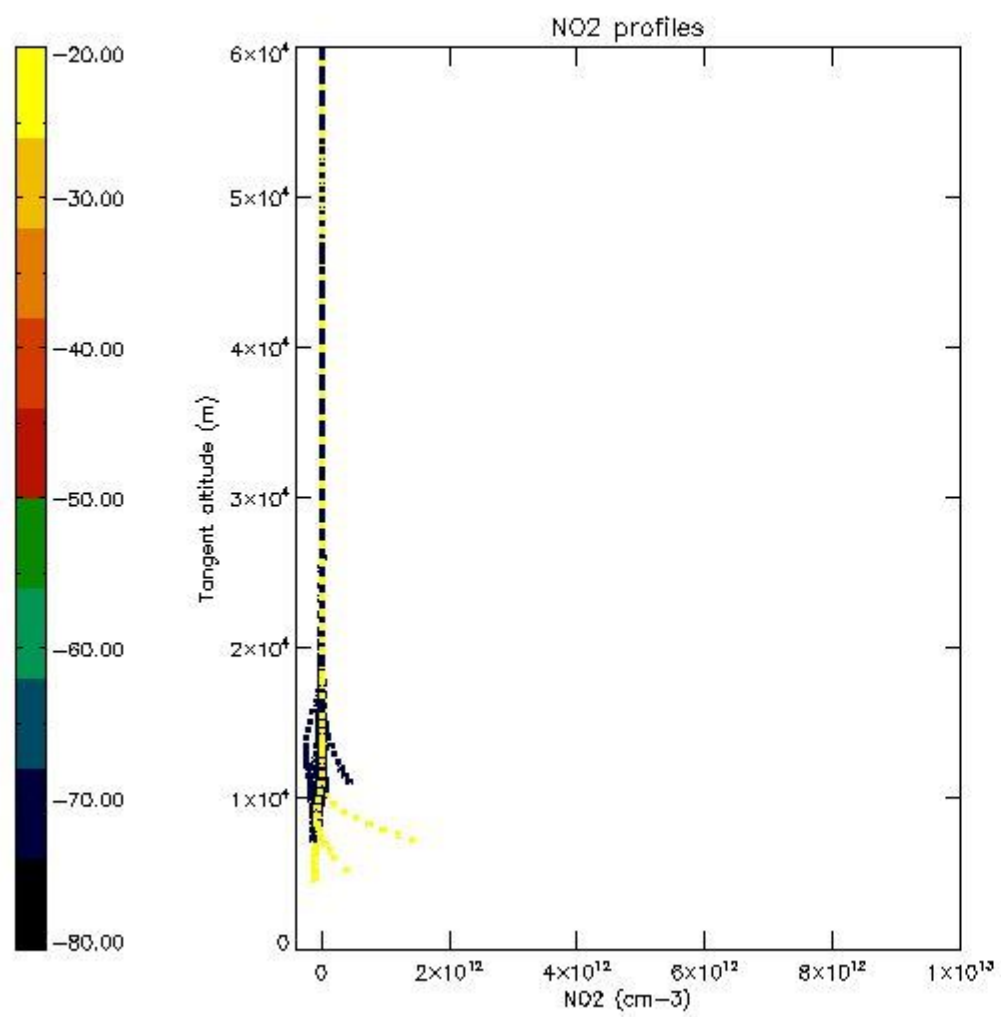
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



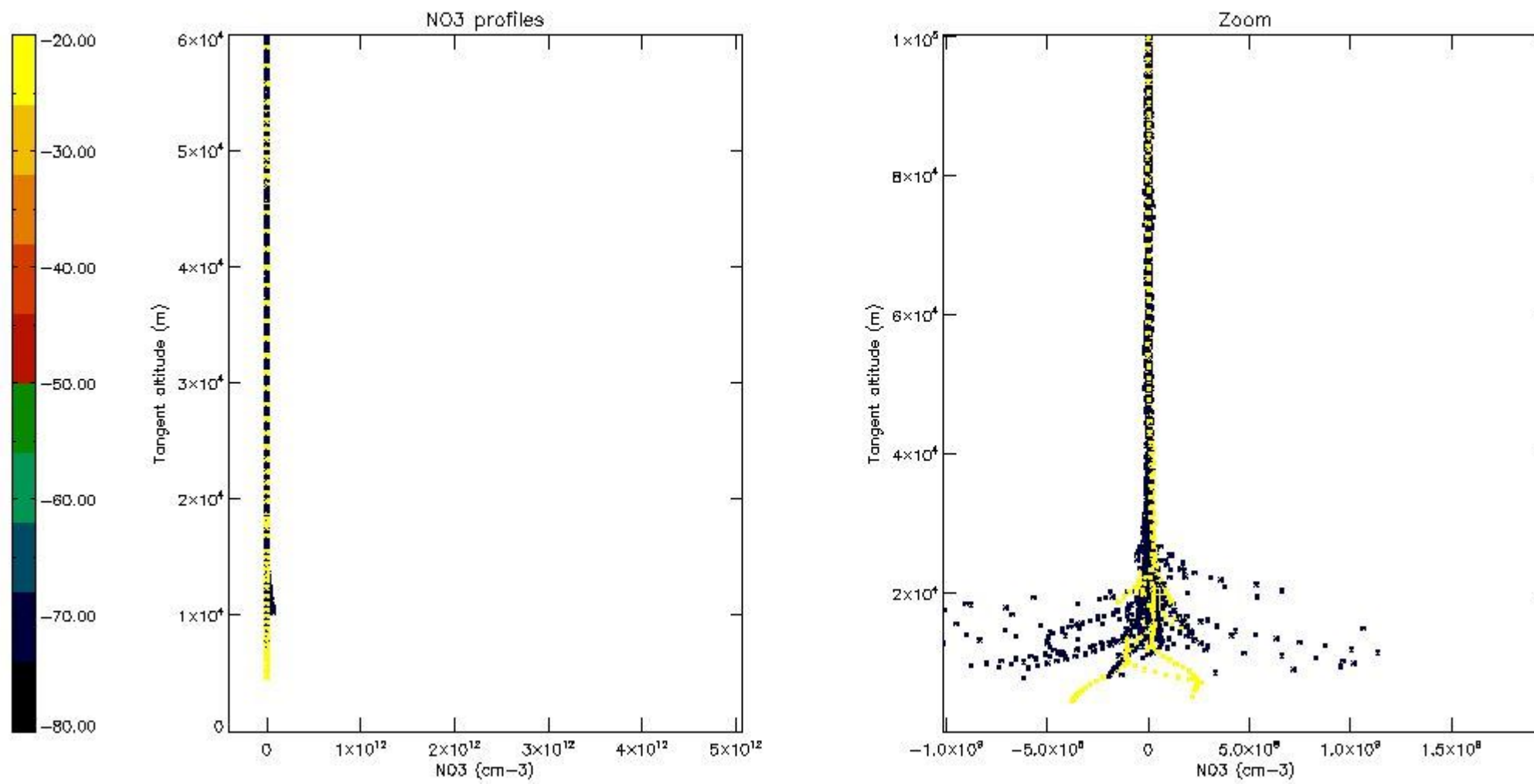
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

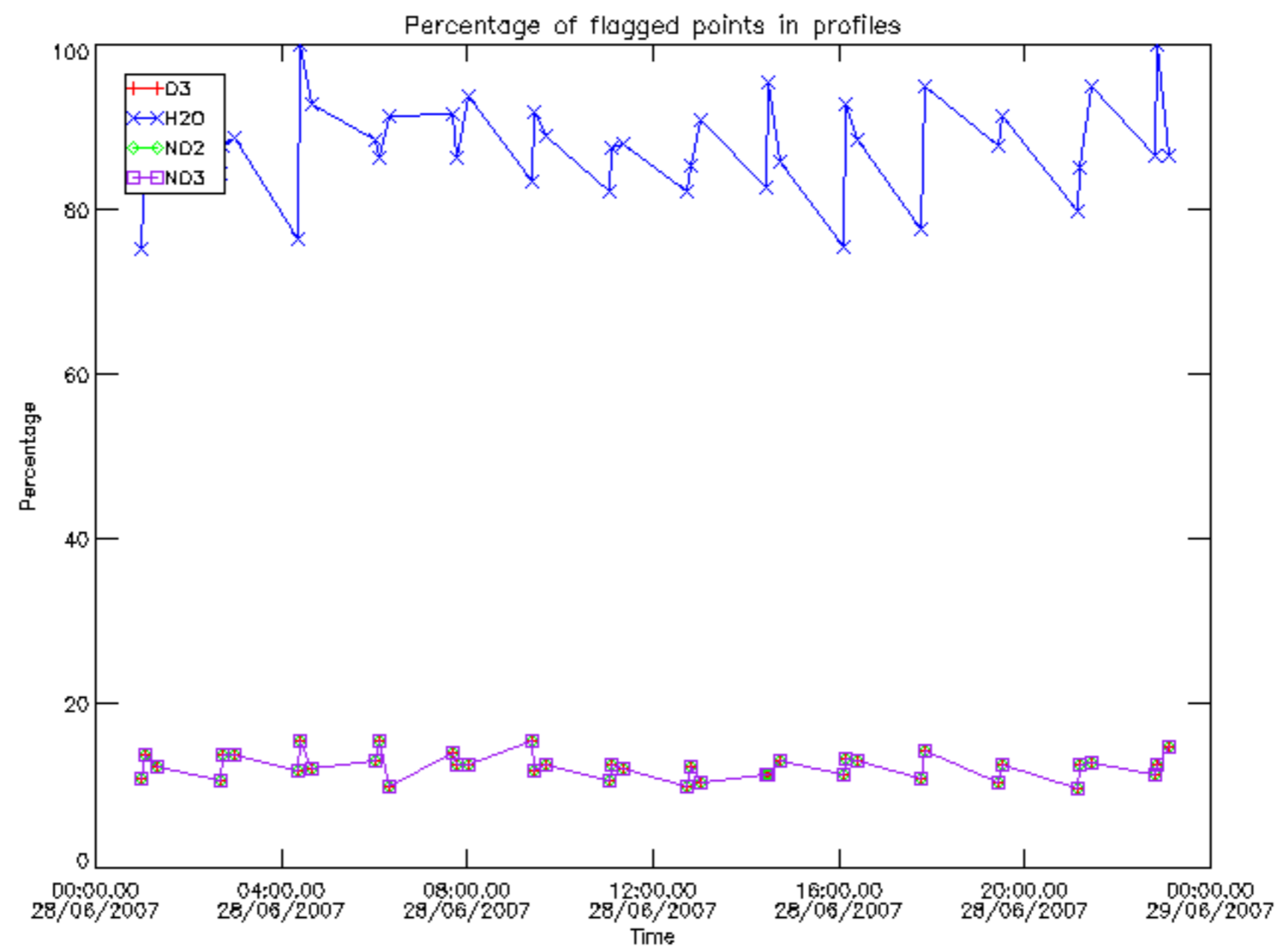
The colorbar represents the latitude.



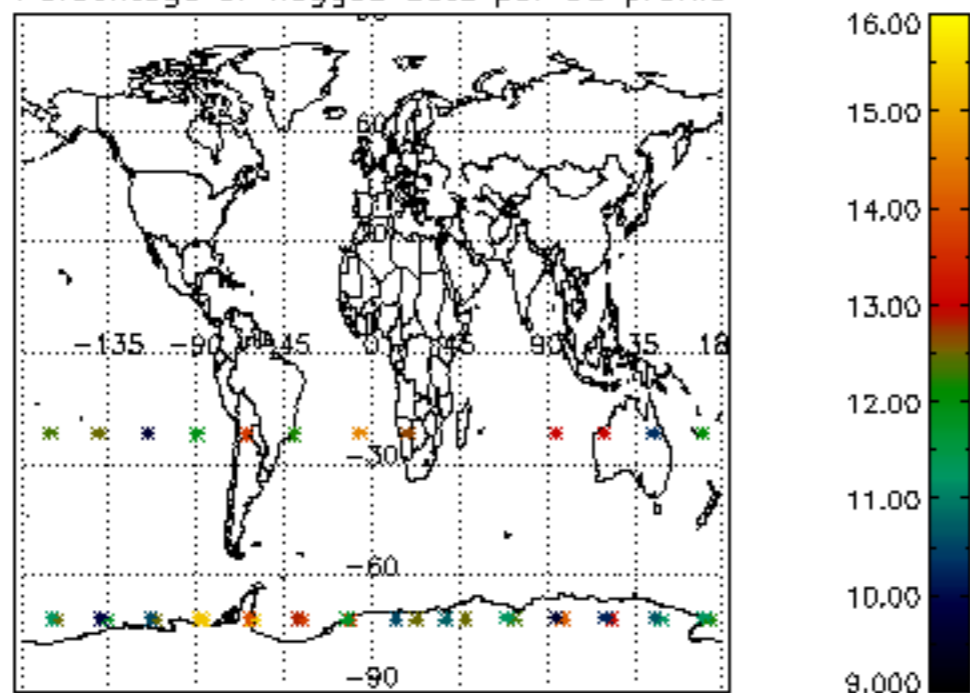
## 6. Auxiliary Data Files used for the production reported in section 2

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.

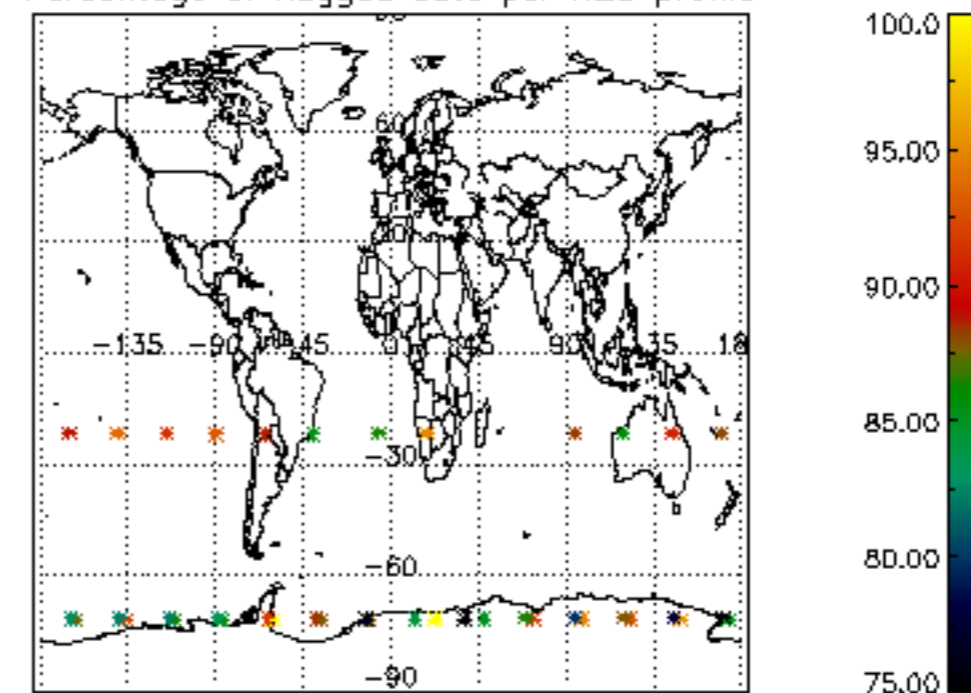
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	28-JUN-2007 00:04:36
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	28-JUN-2007 00:04:36
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	28-JUN-2007 00:04:36



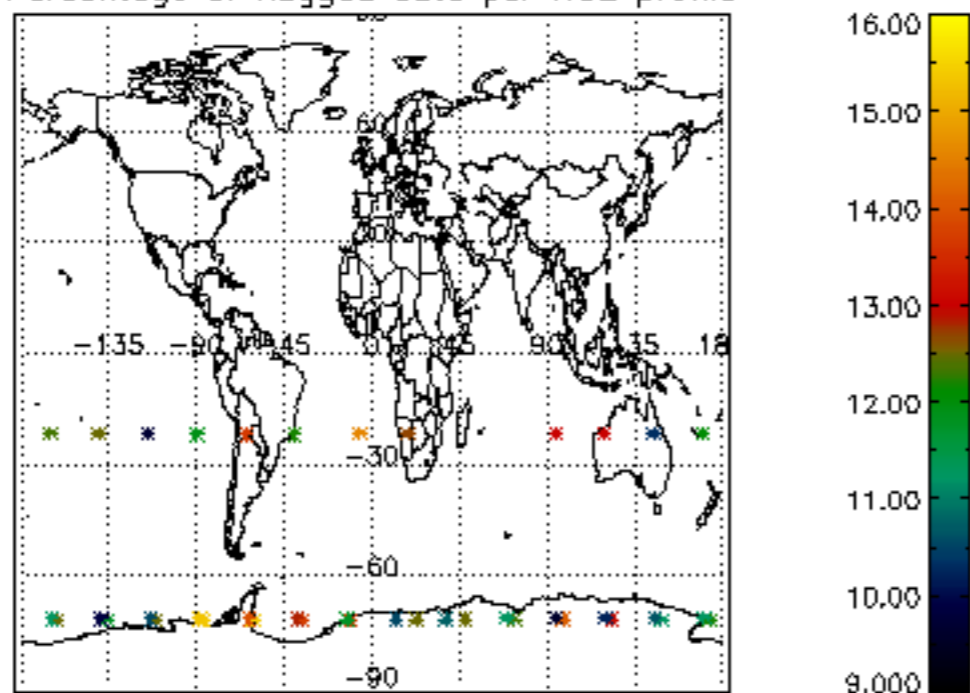
Percentage of flagged data per D3 profile



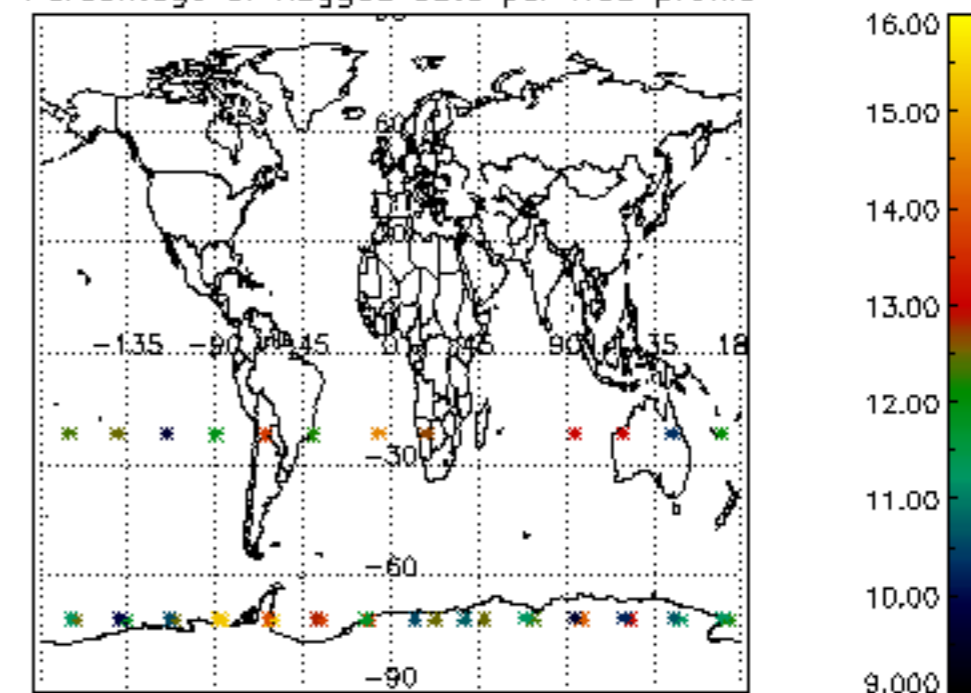
Percentage of flagged data per H2O profile



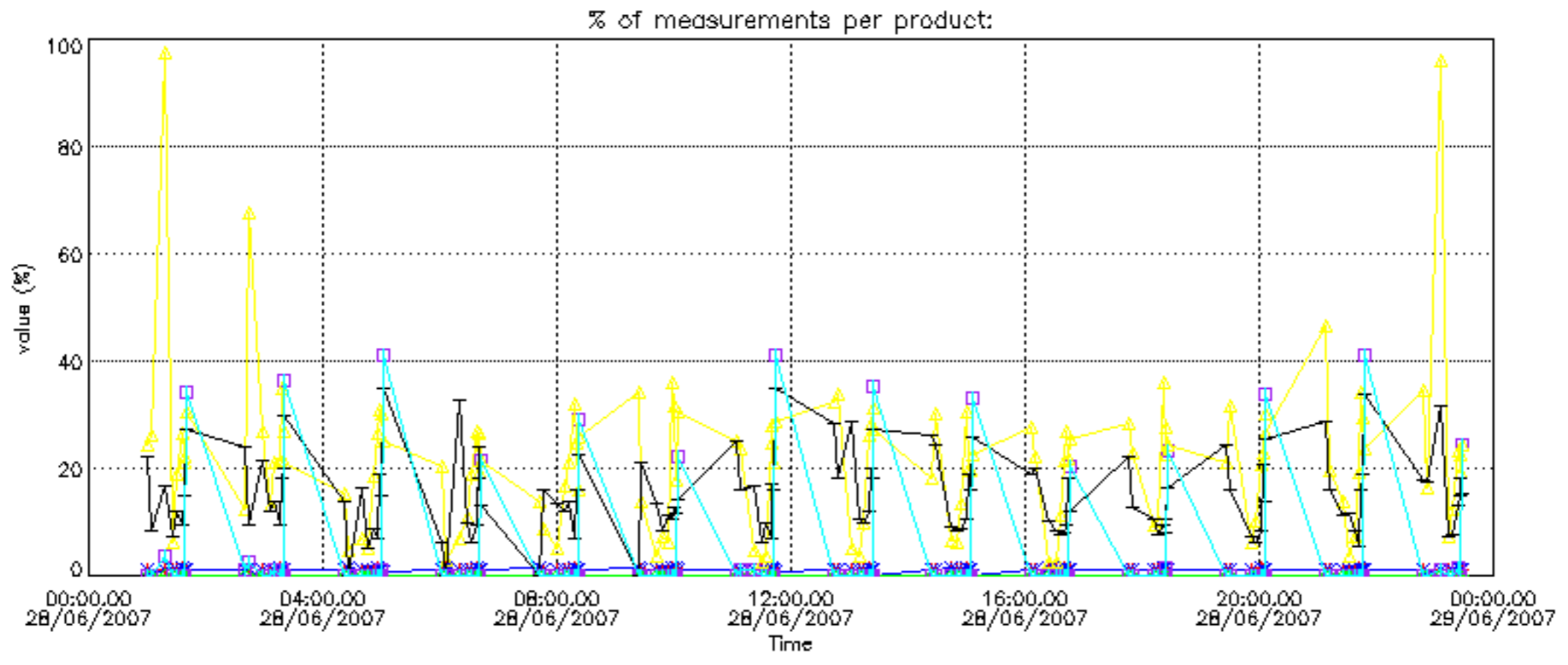
Percentage of flagged data per NO2 profile

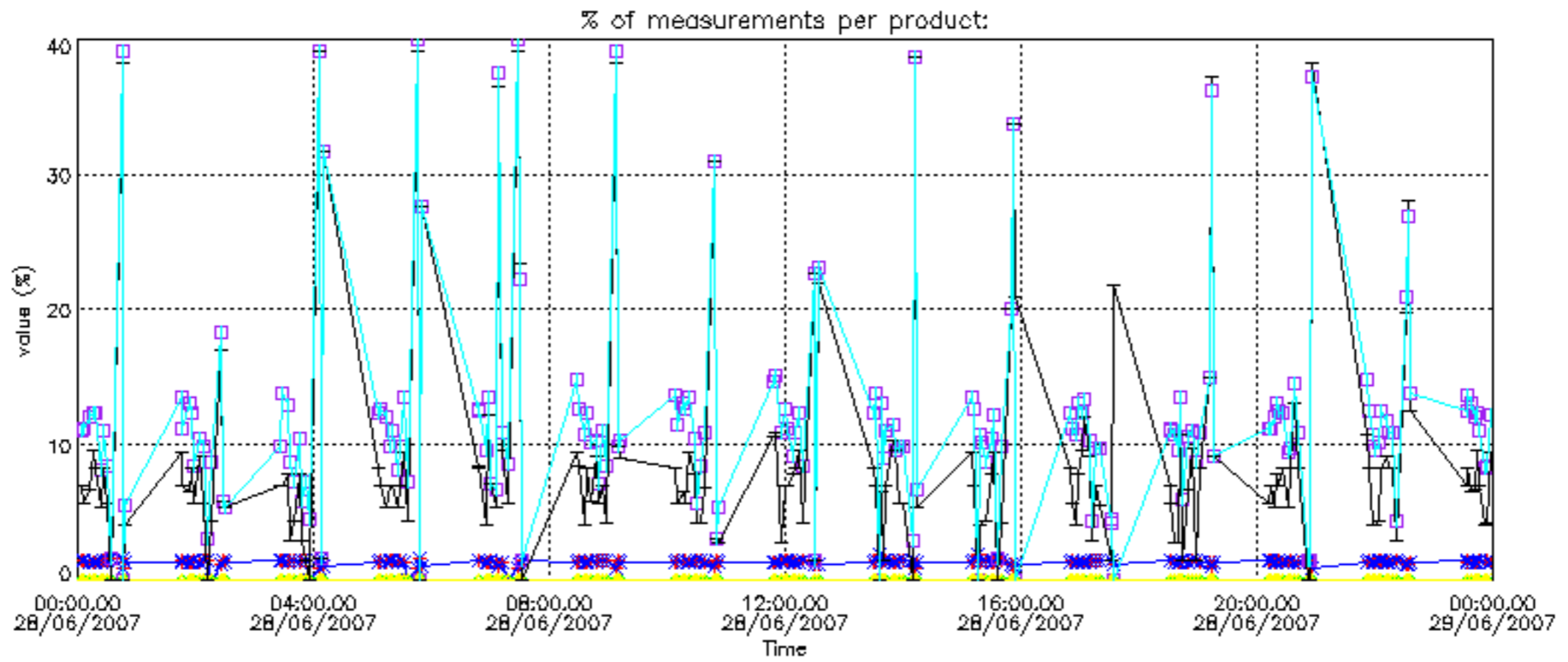


Percentage of flagged data per NO3 profile

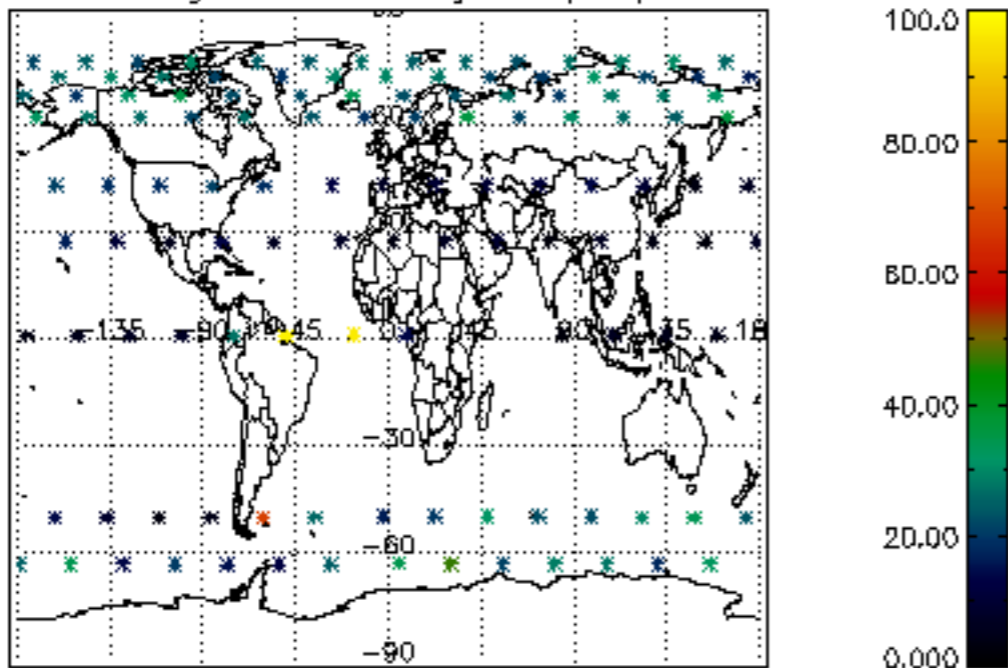




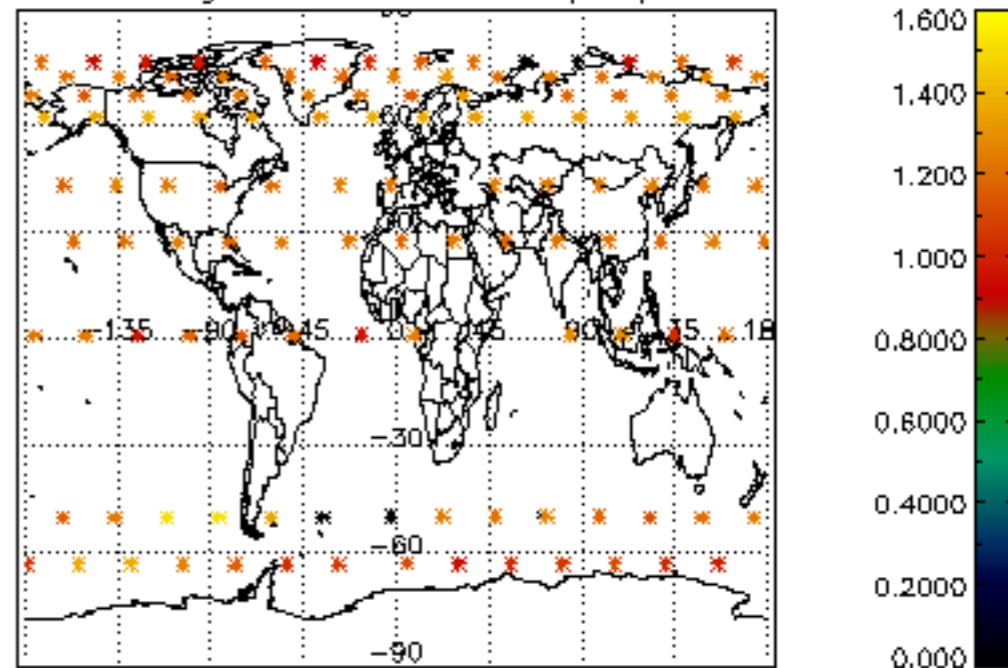




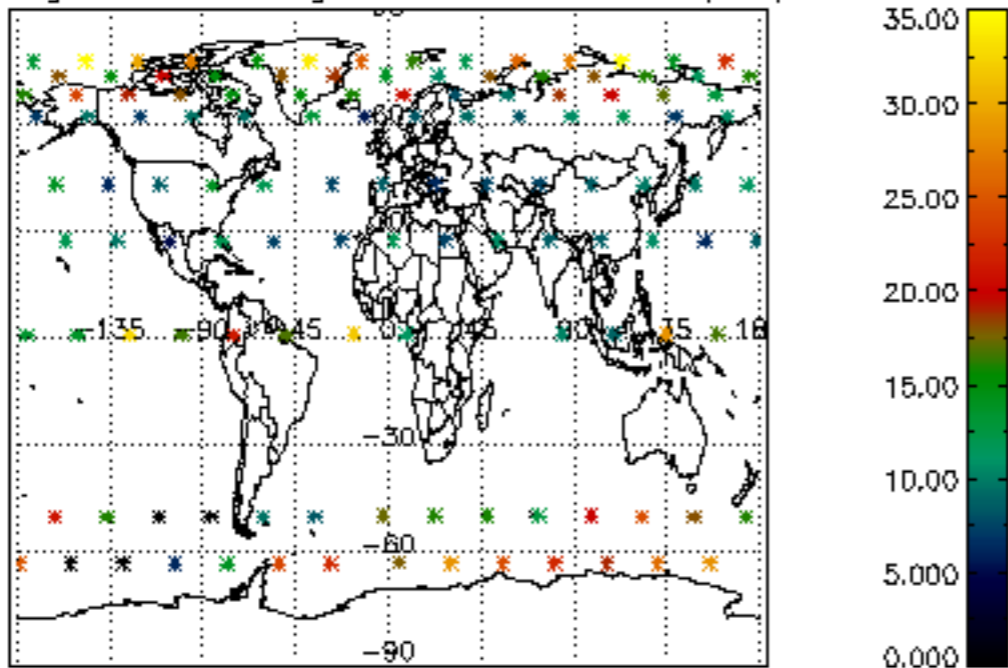
Percentage of cosmic ray hits per profile



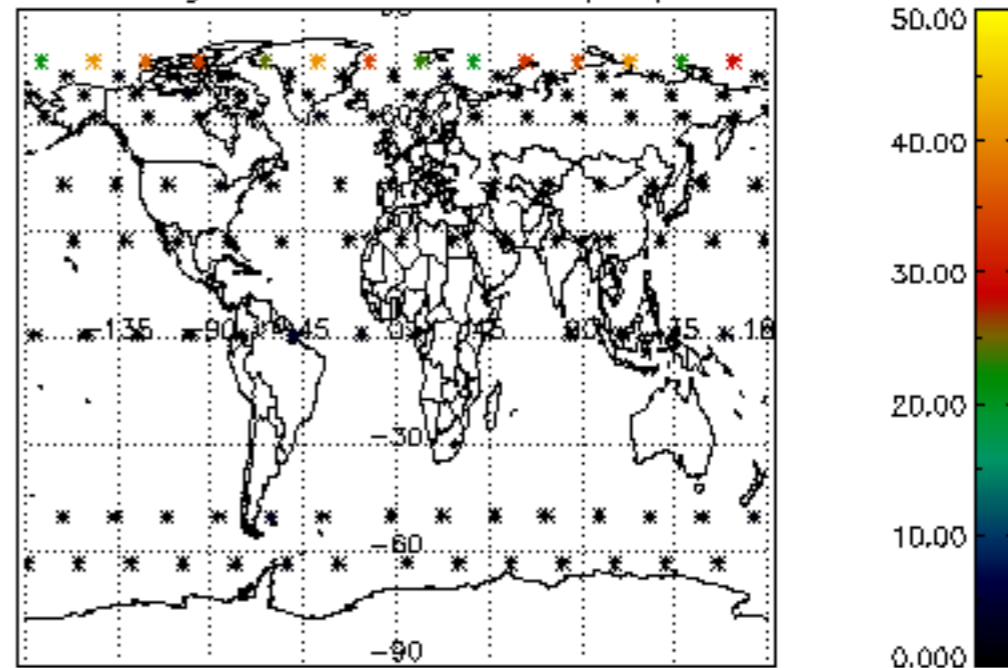
Percentage of datation errors per profile



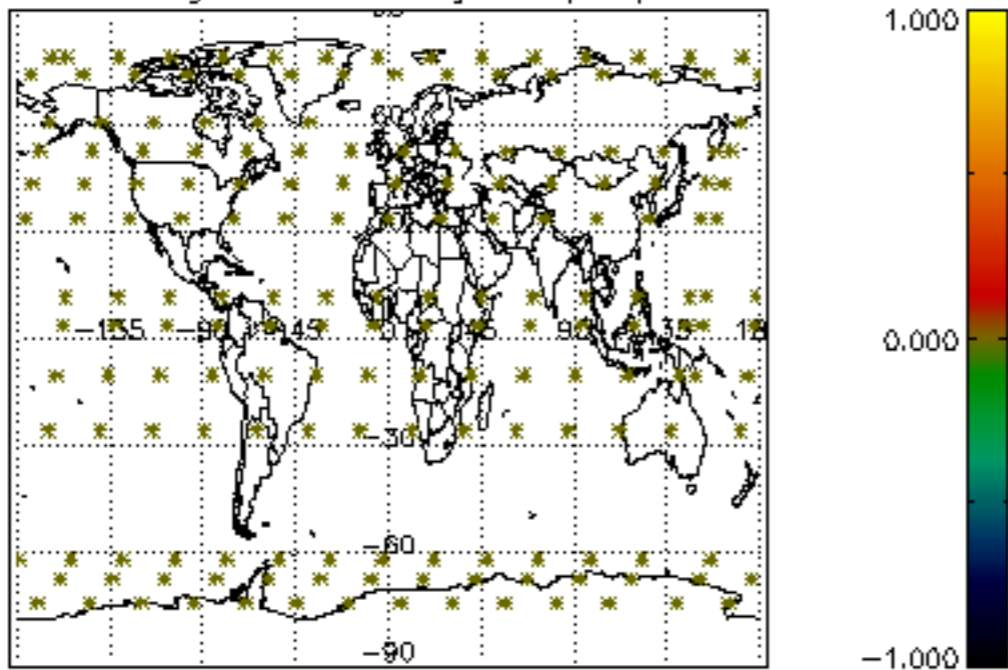
Percentage of star falling outside central band per profile



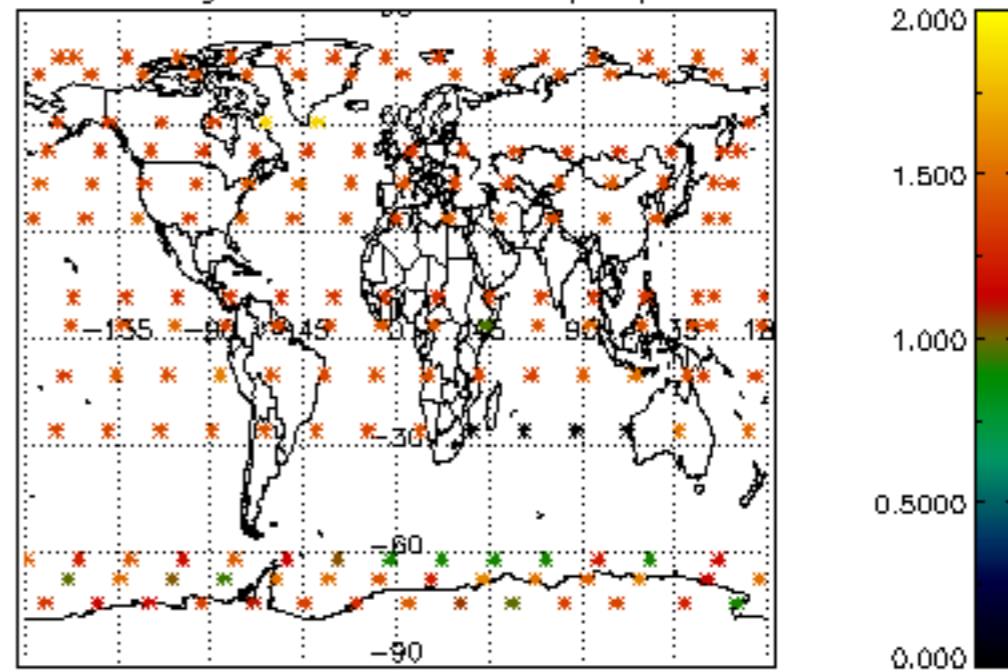
Percentage of saturation errors per profile



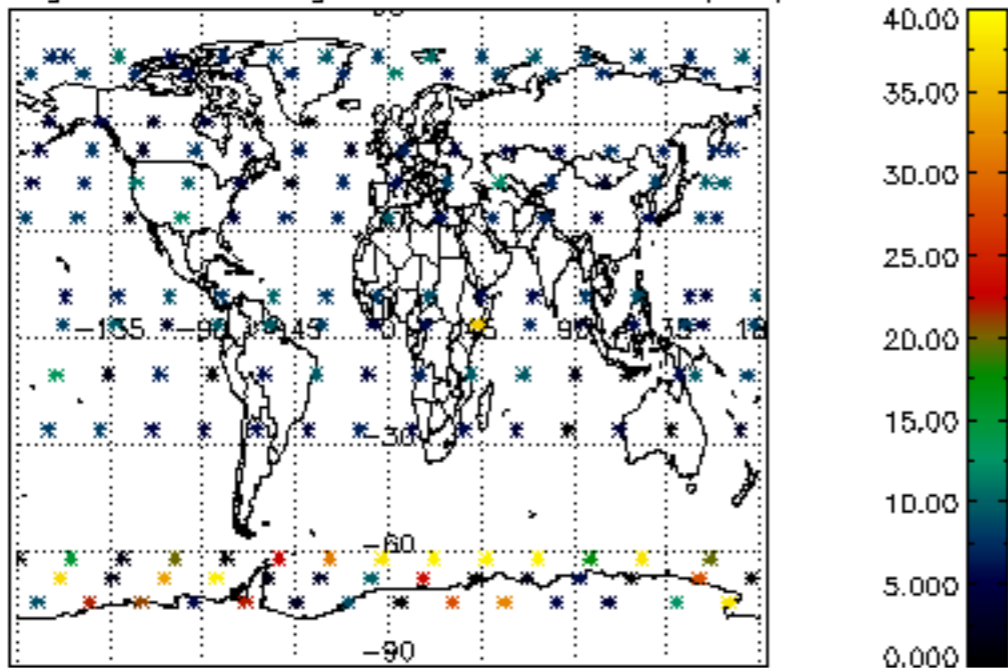
Percentage of cosmic ray hits per profile



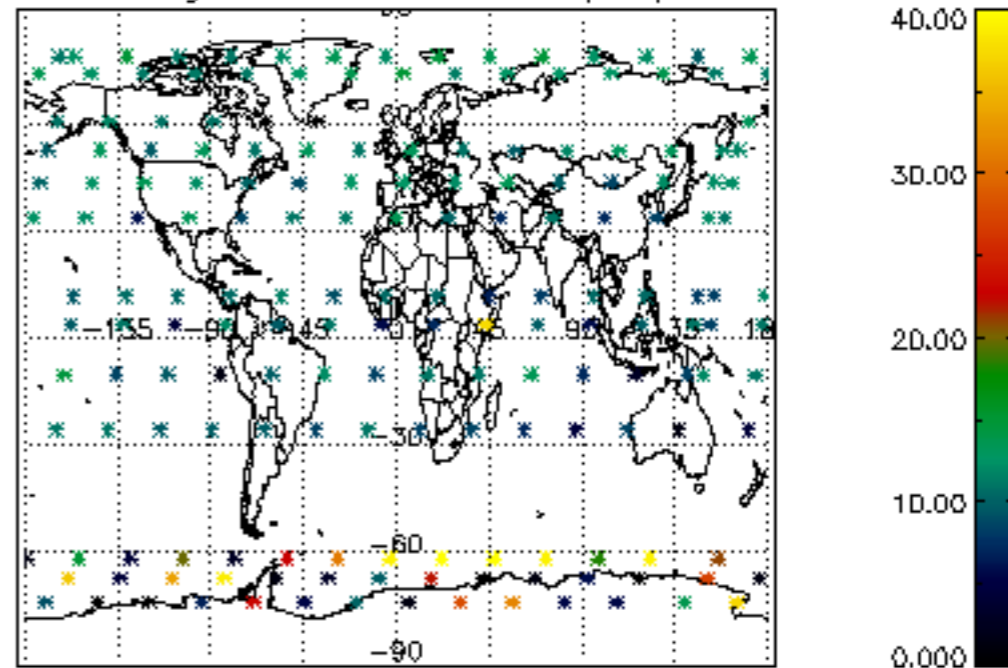
Percentage of datation errors per profile

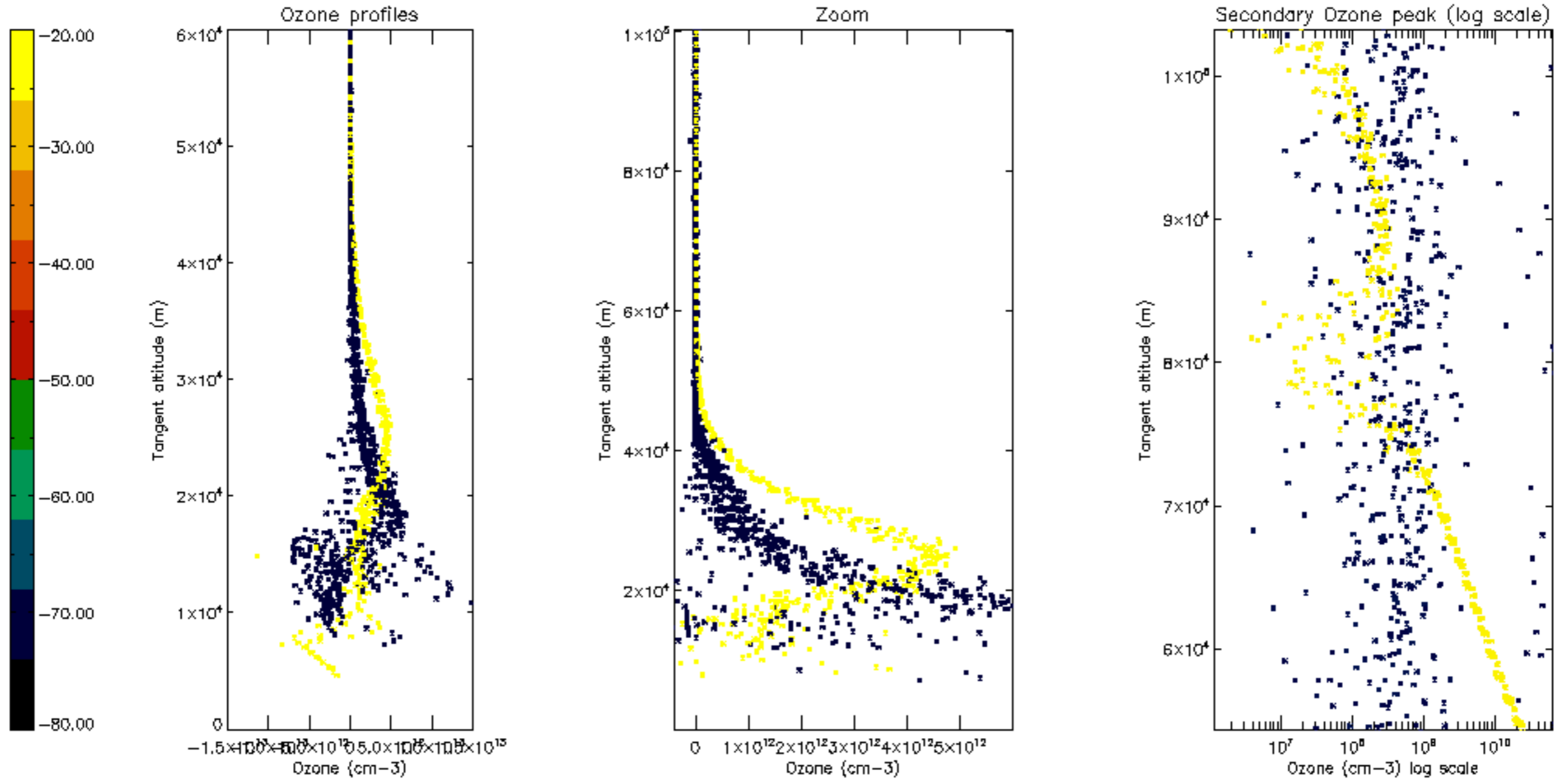


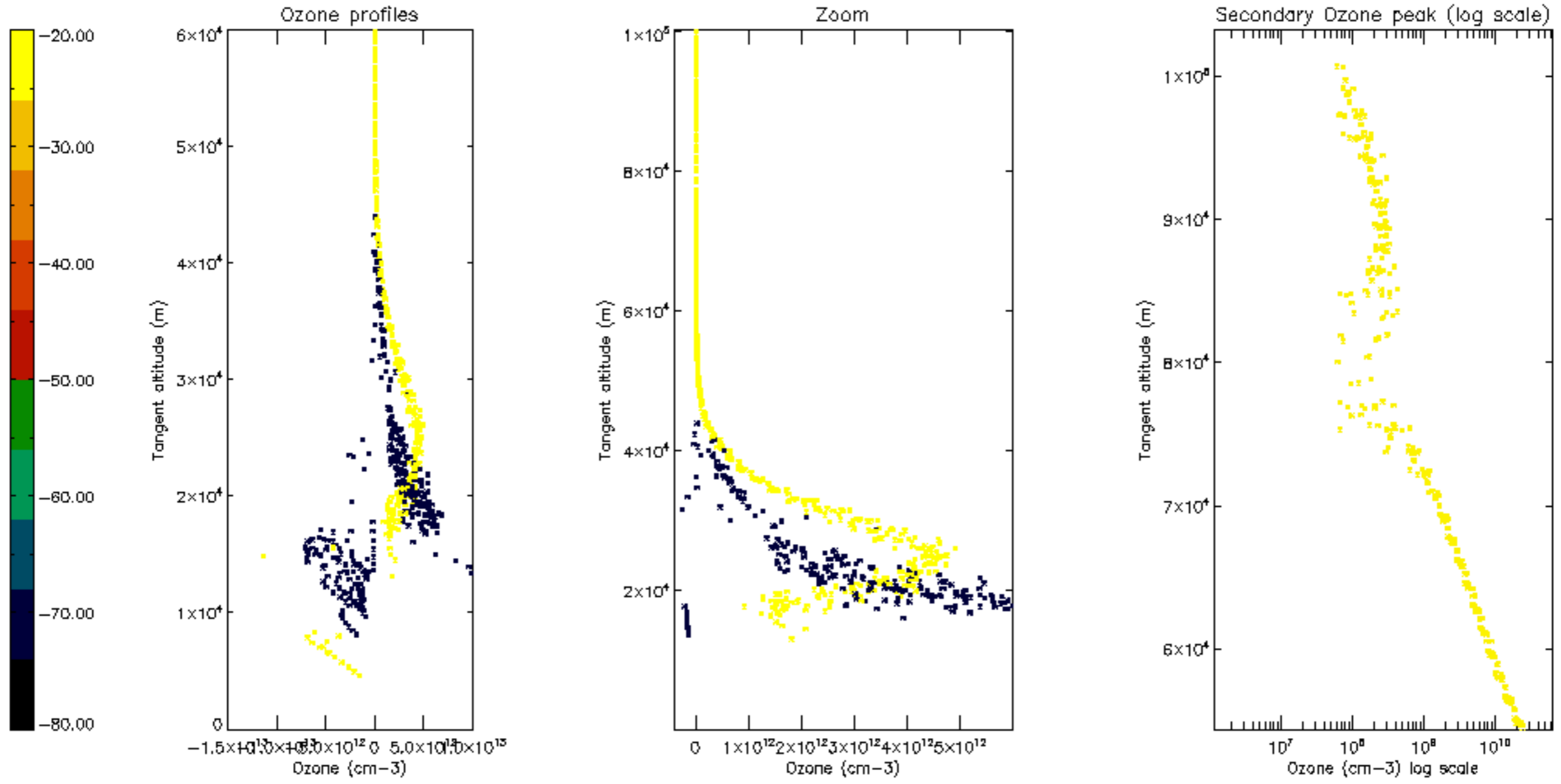
Percentage of star falling outside central band per profile

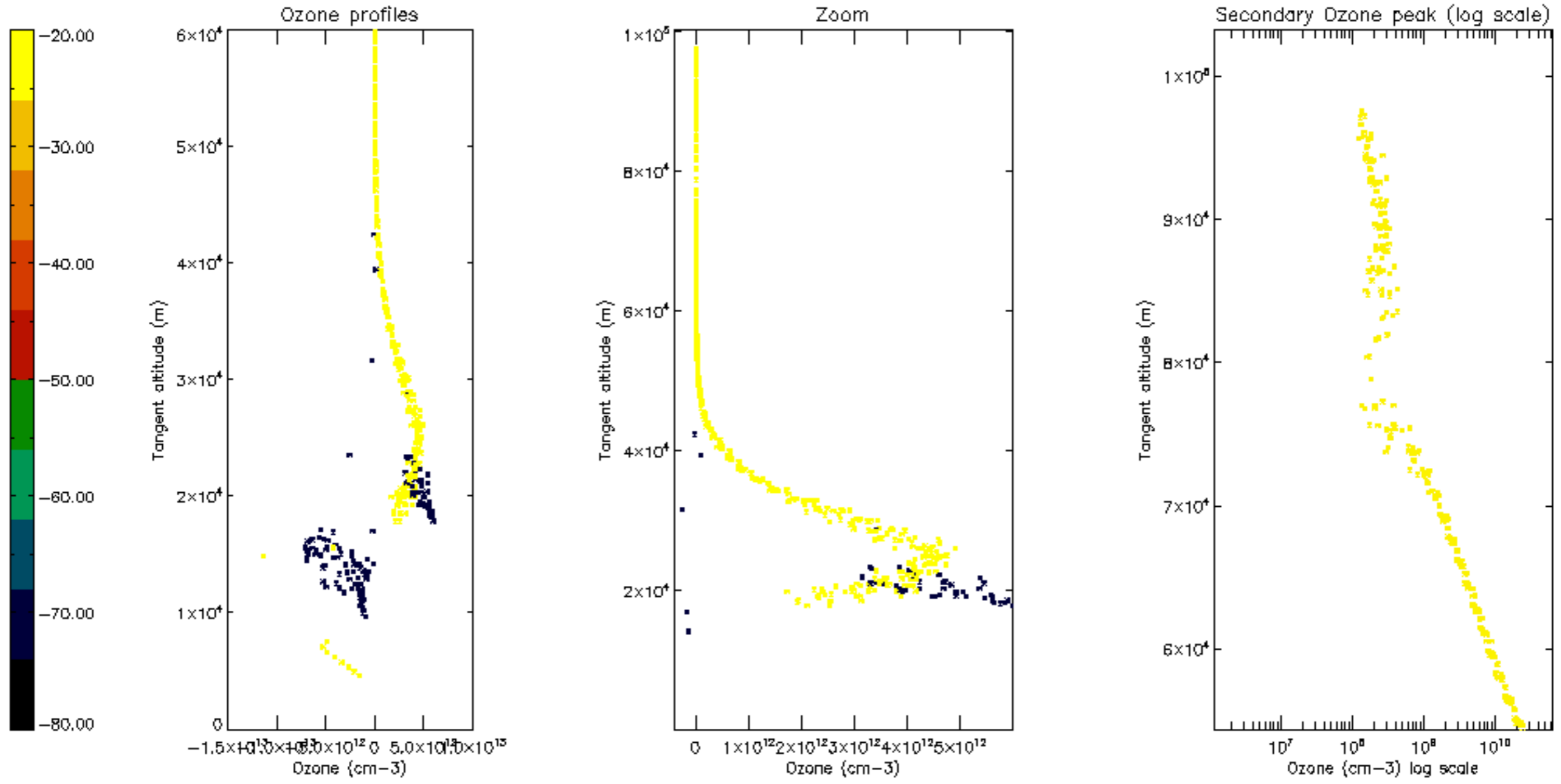


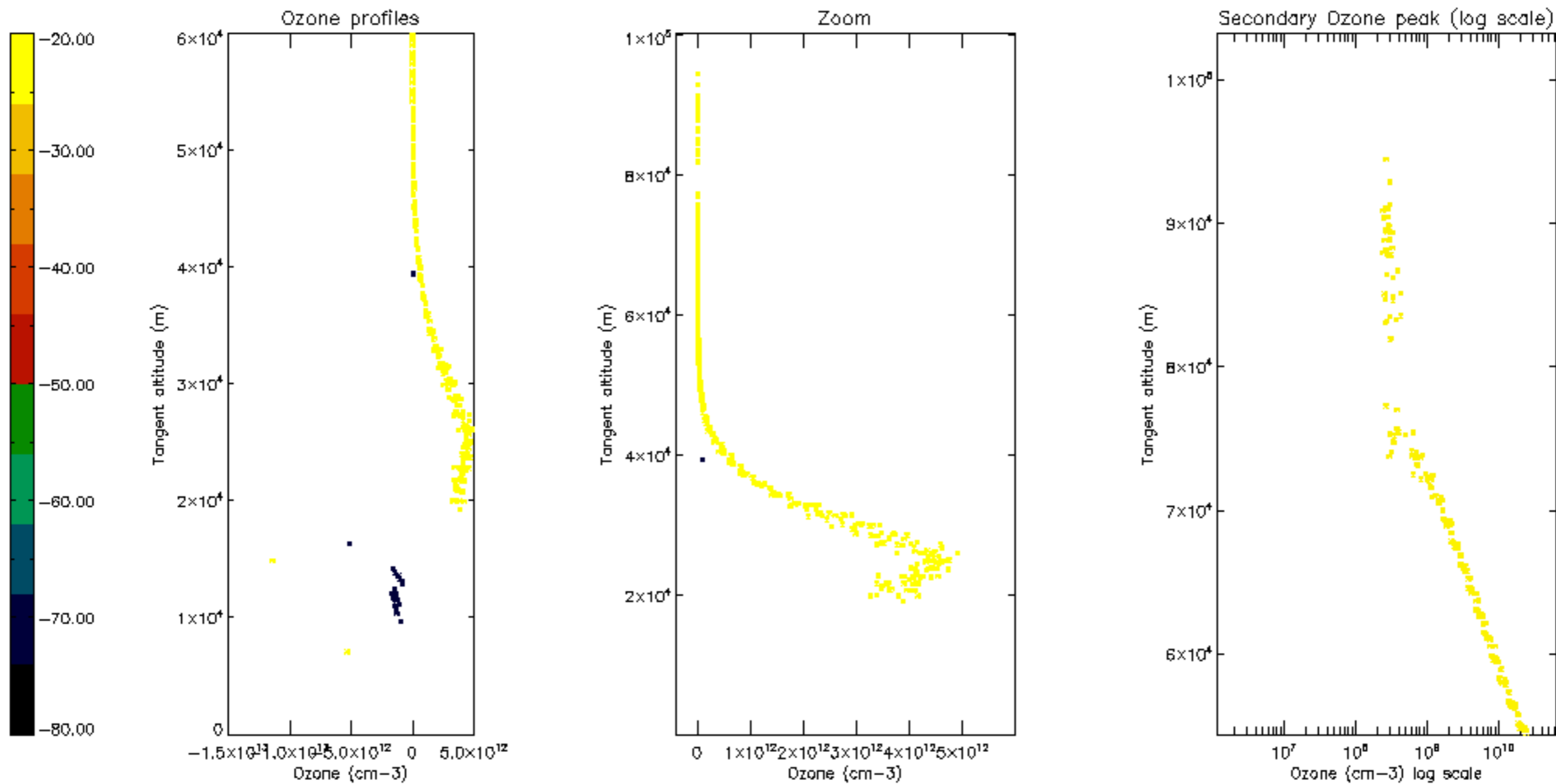
Percentage of saturation errors per profile



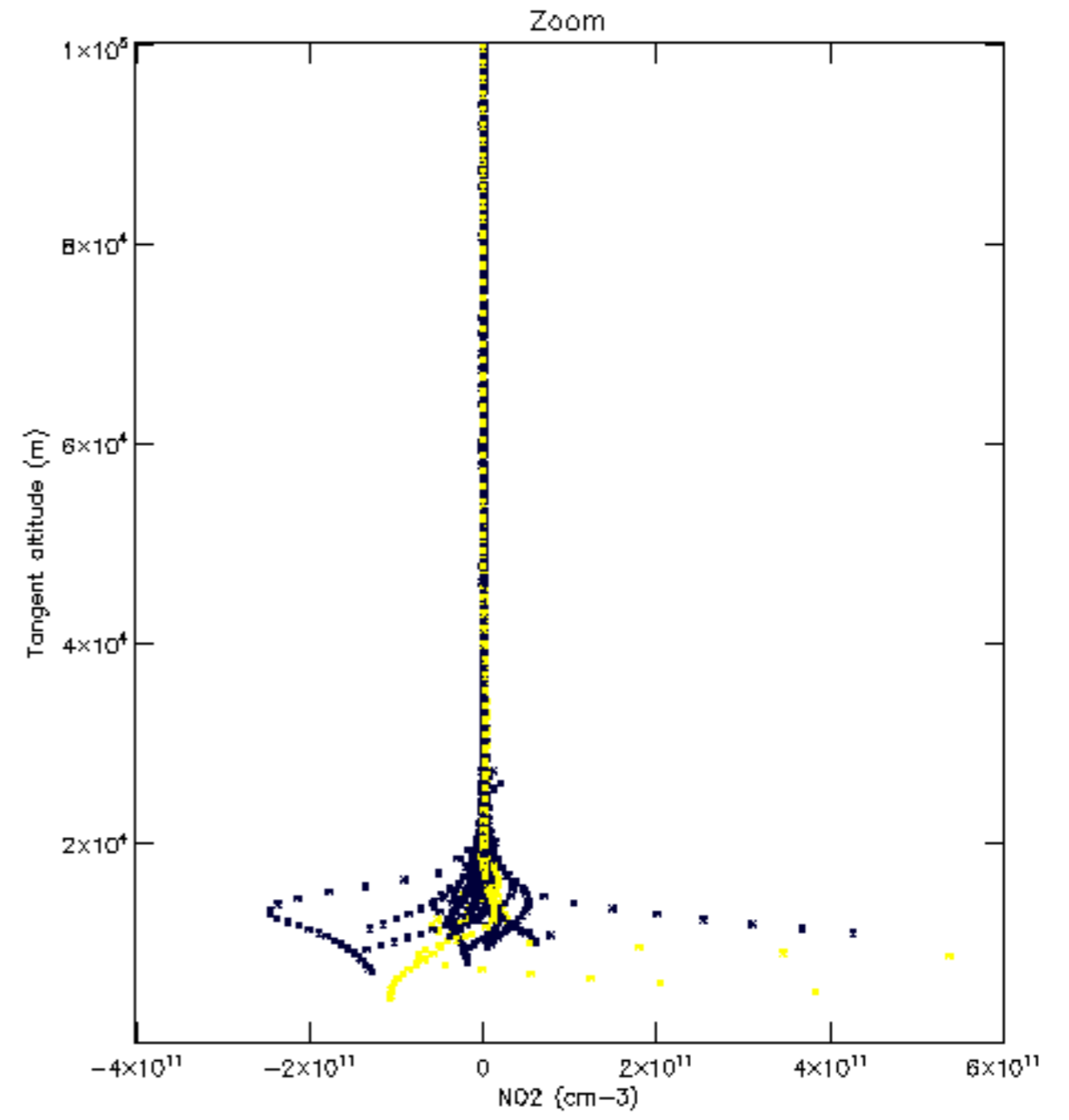
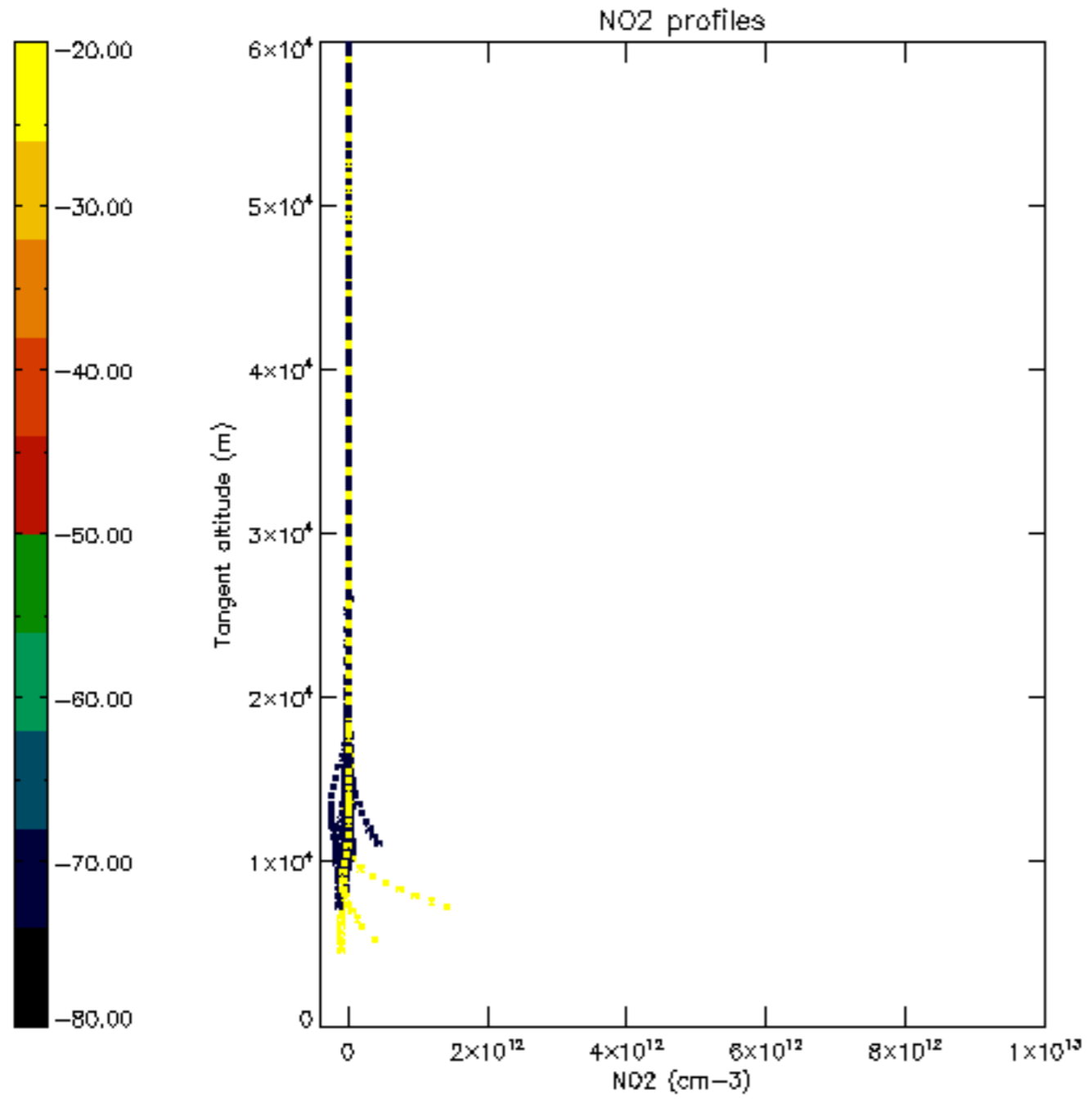


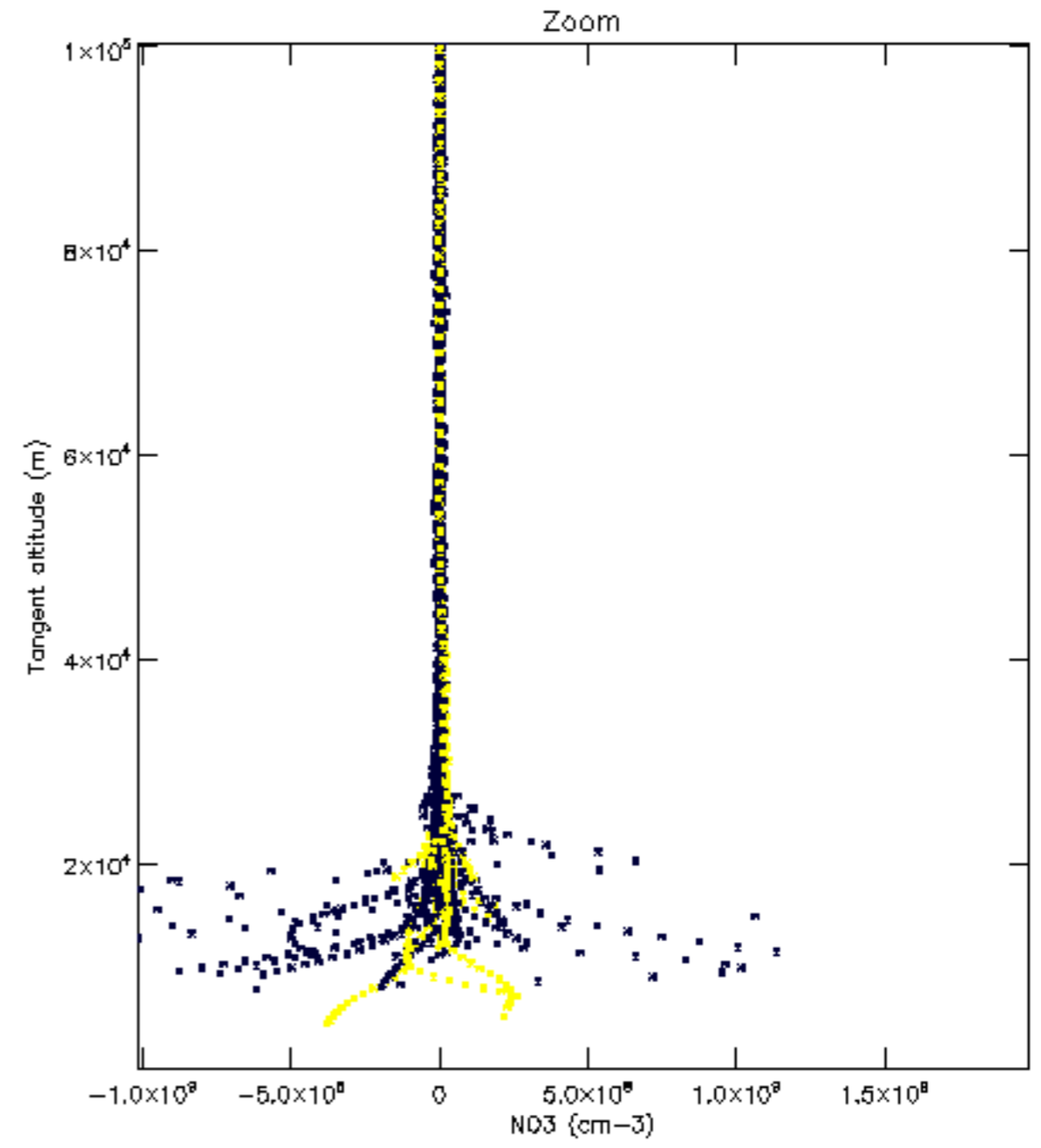
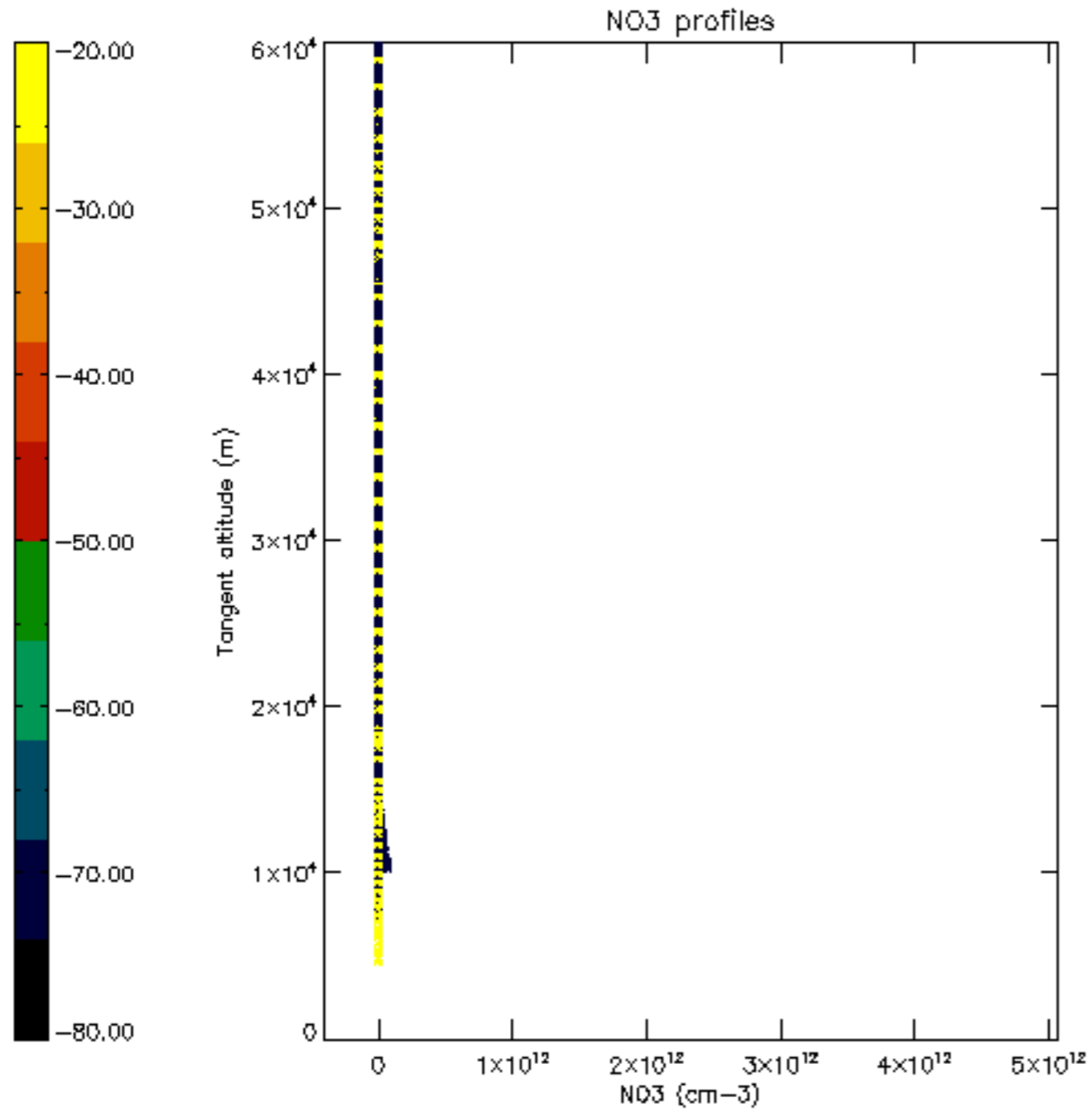


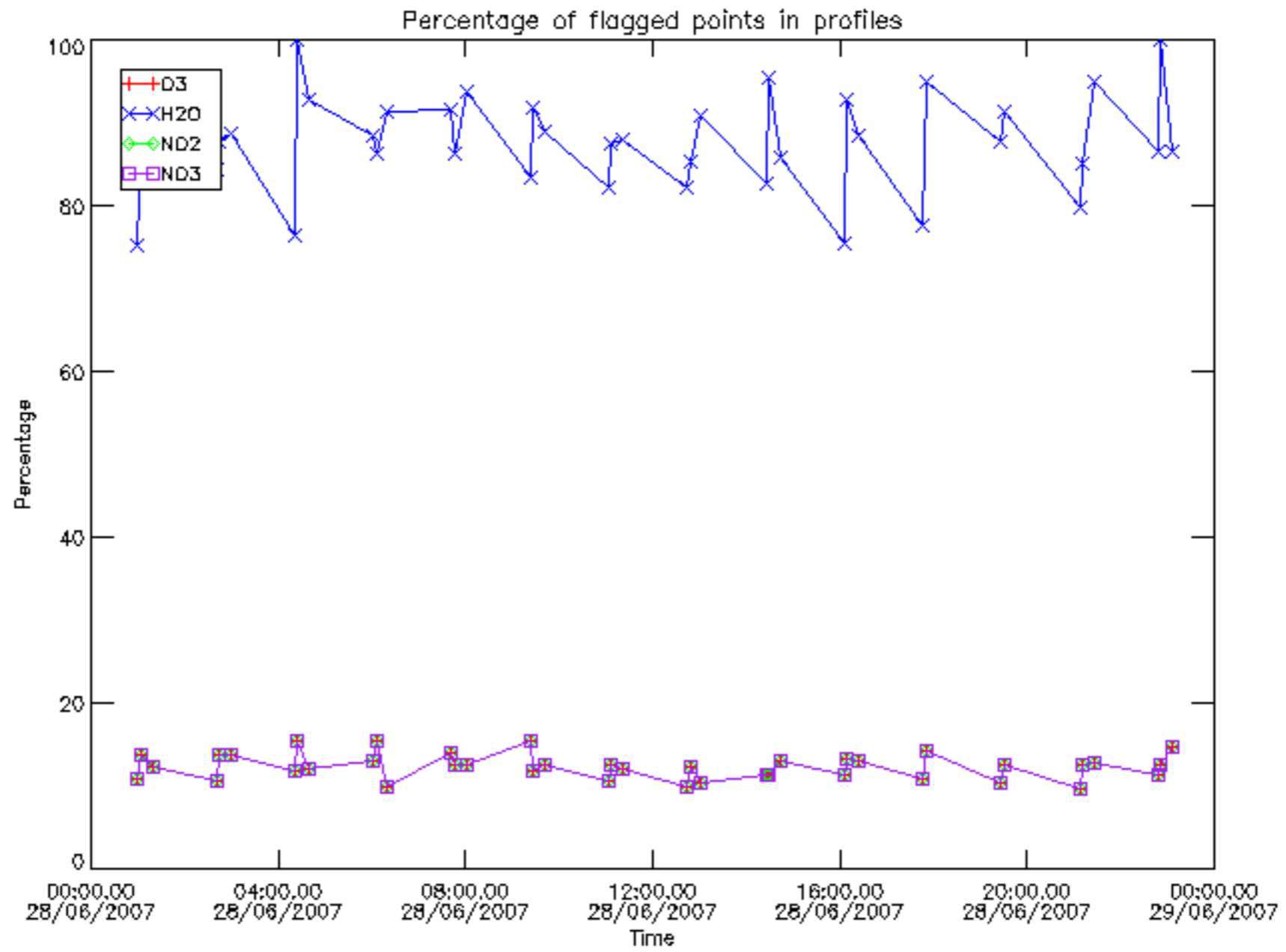




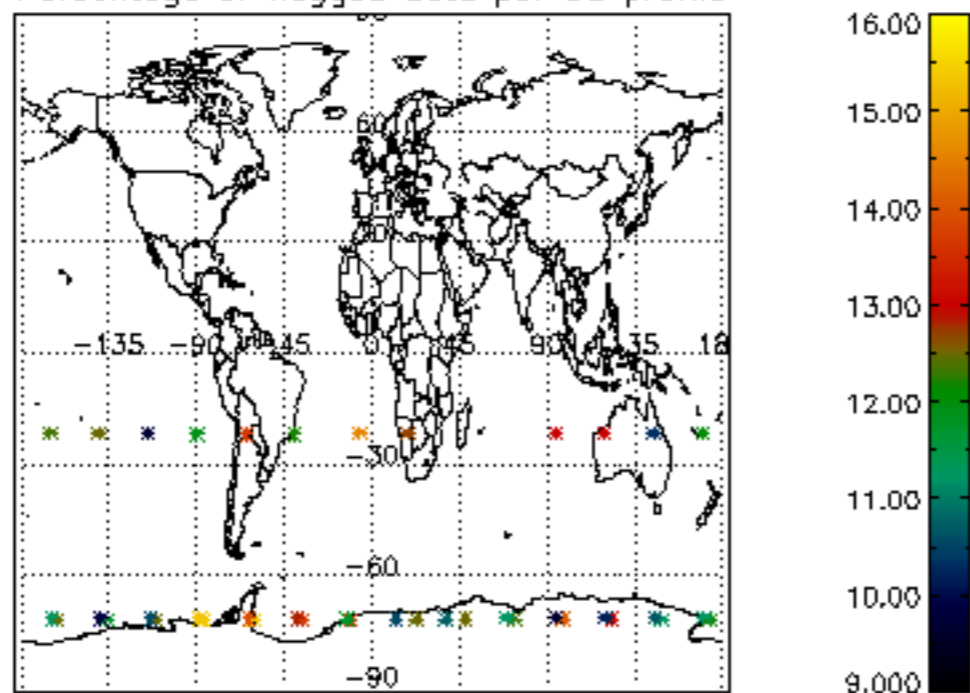




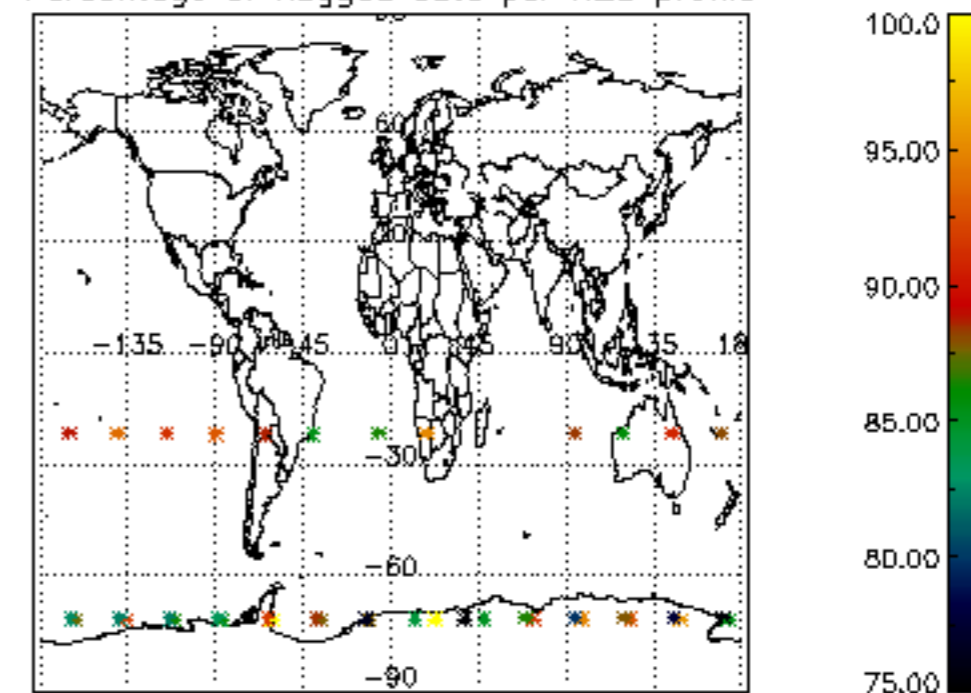




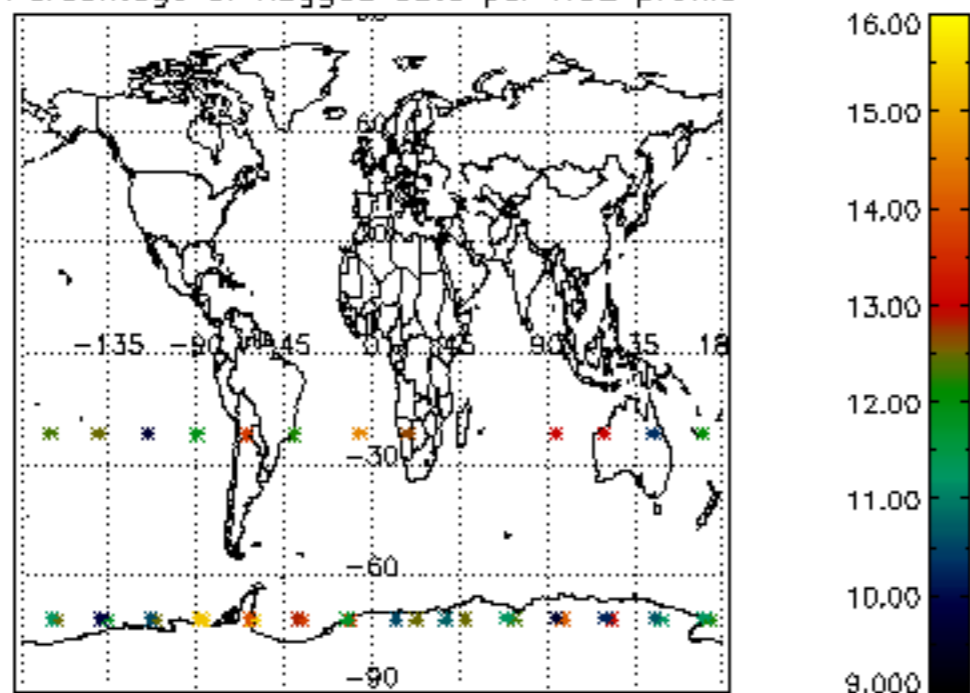
Percentage of flagged data per D3 profile



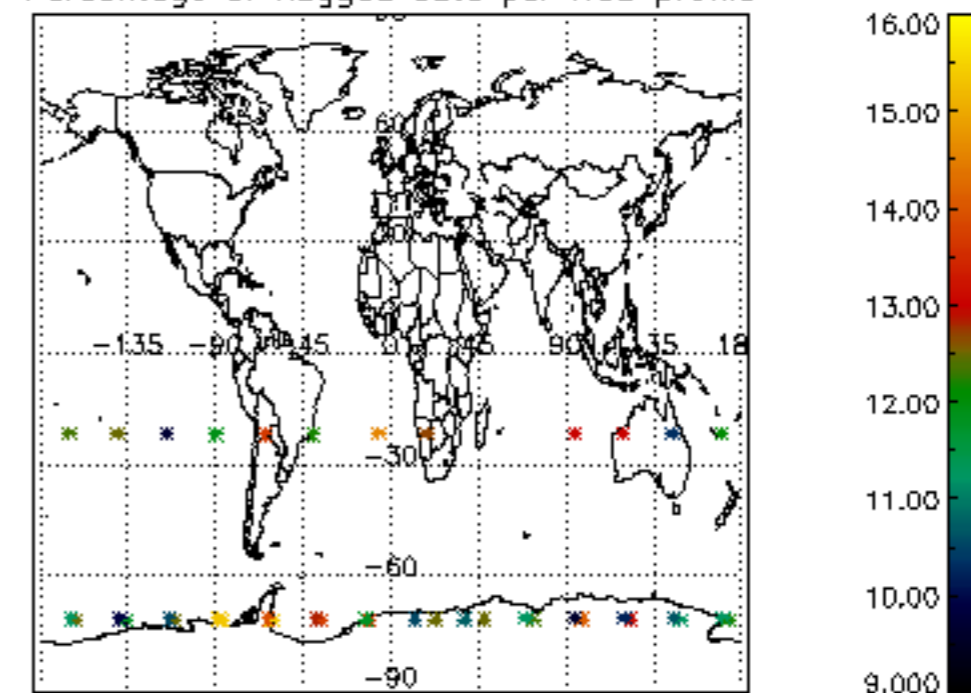
Percentage of flagged data per H2O profile

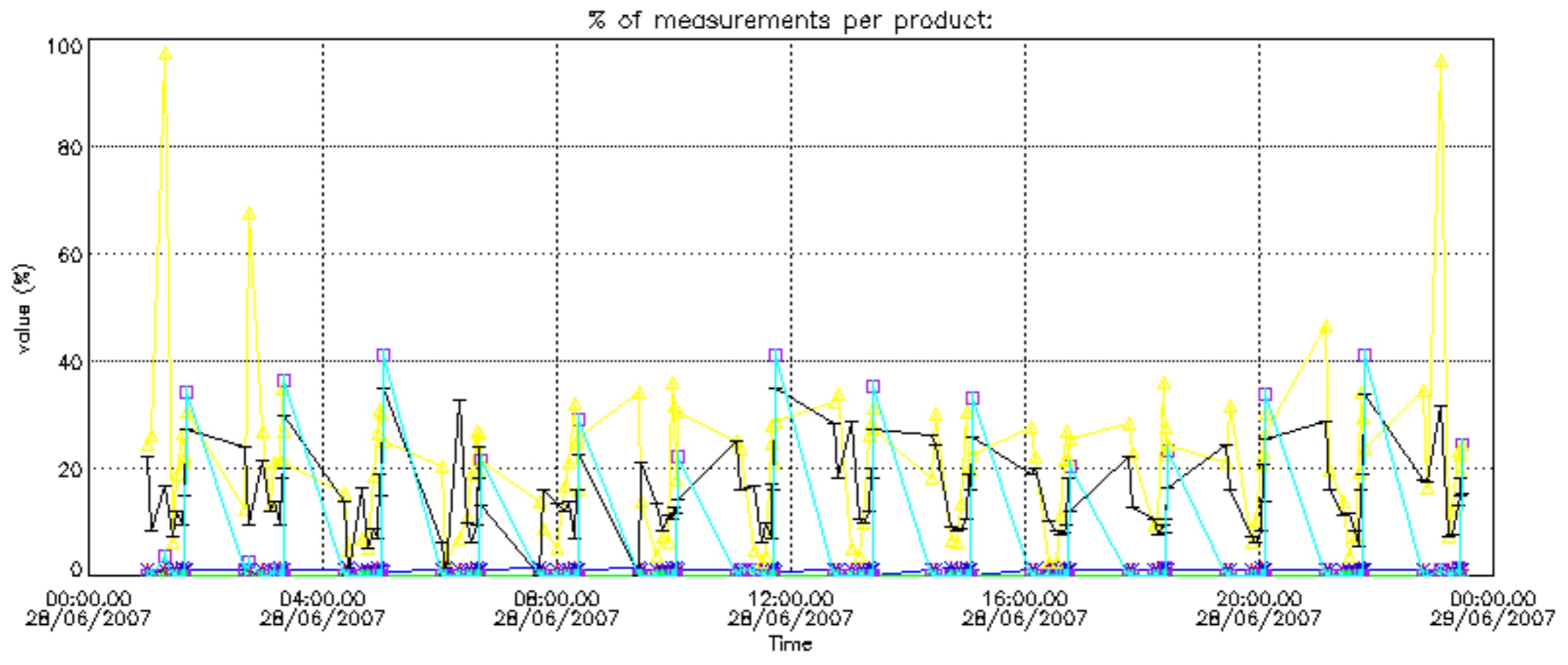


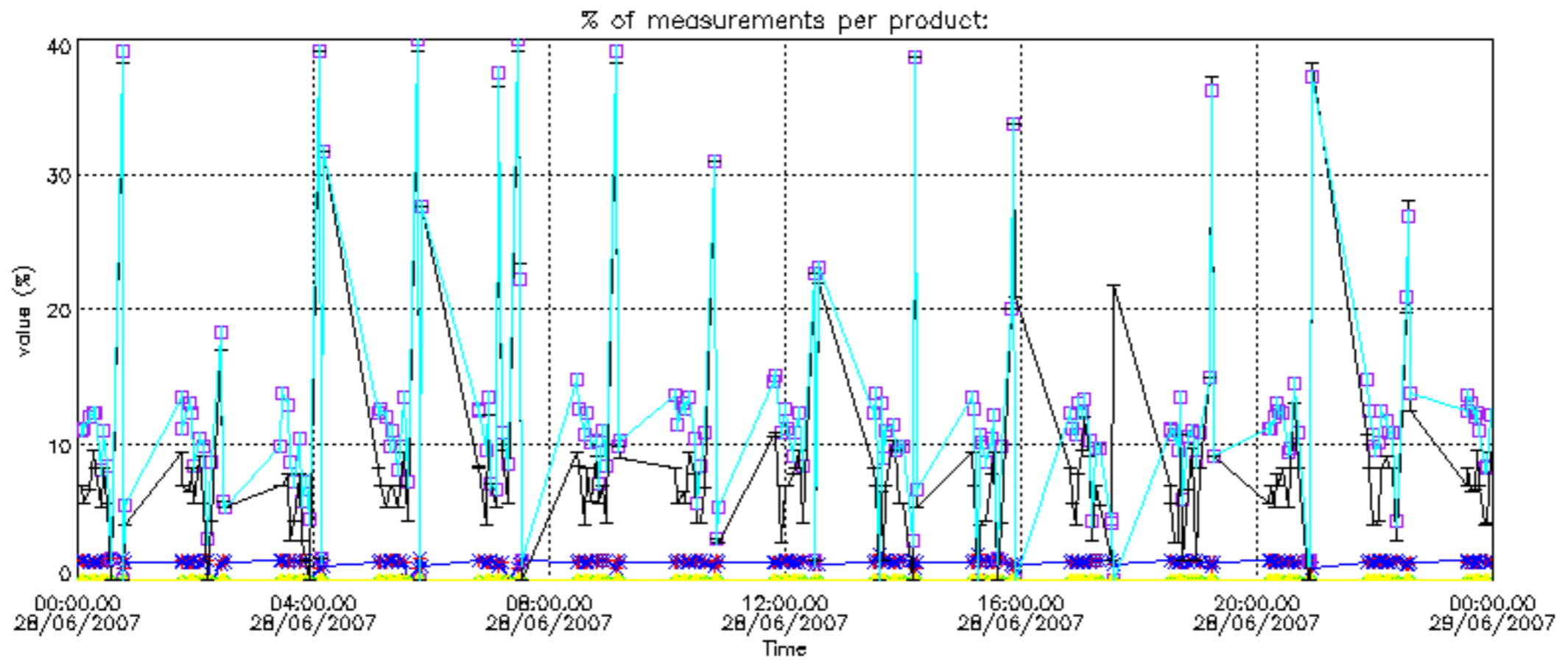
Percentage of flagged data per NO2 profile



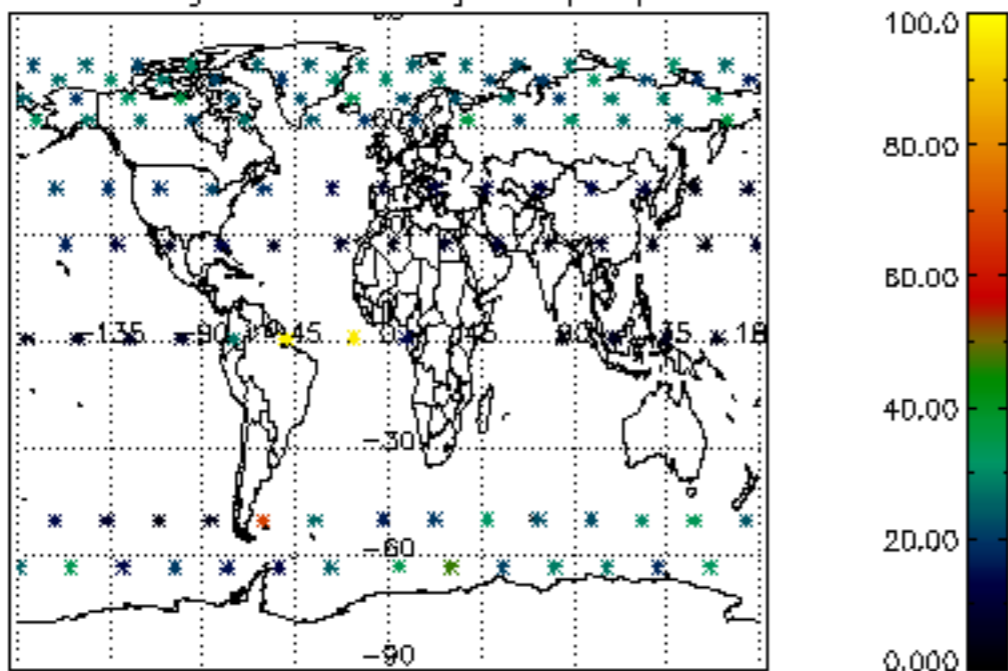
Percentage of flagged data per NO3 profile



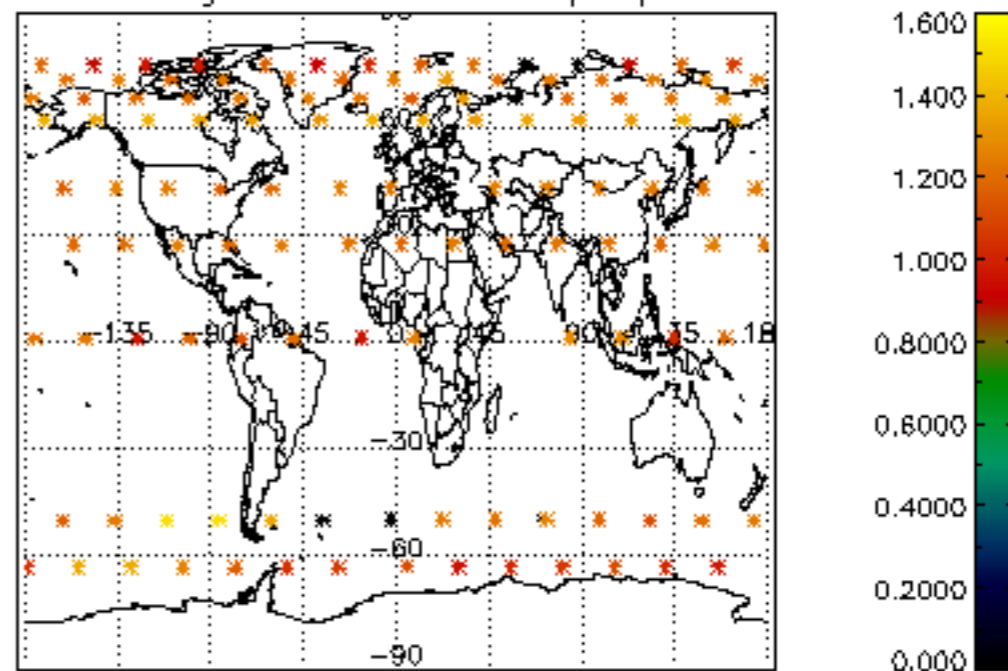




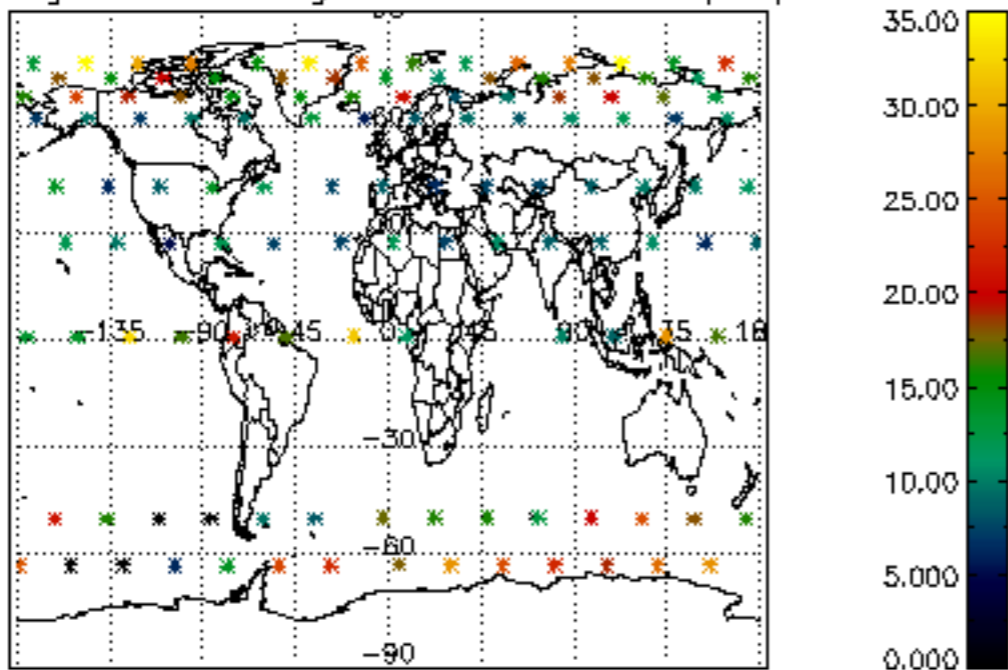
Percentage of cosmic ray hits per profile



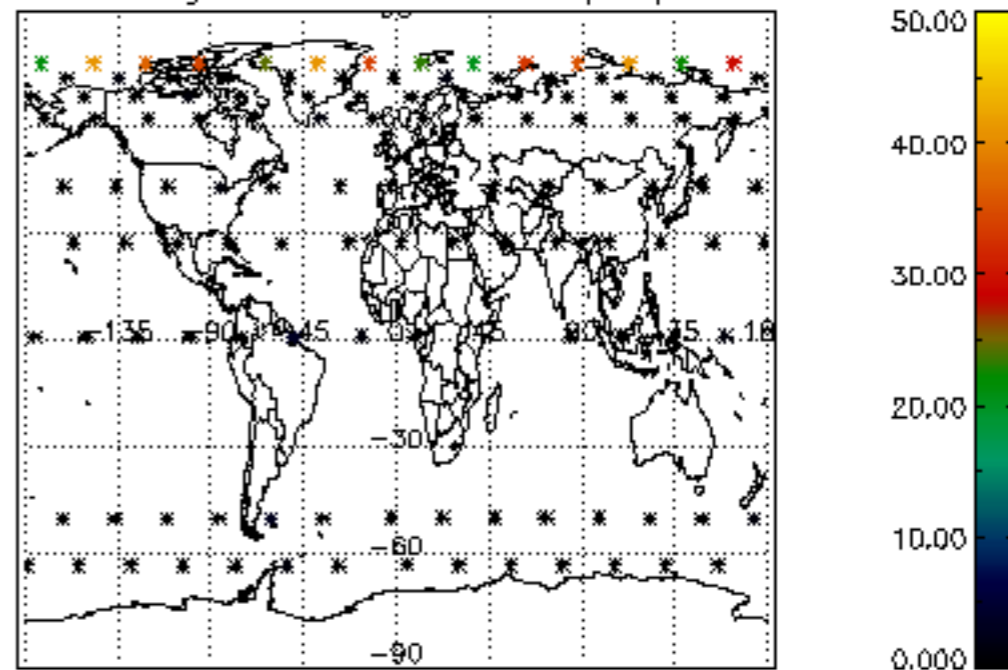
Percentage of datation errors per profile



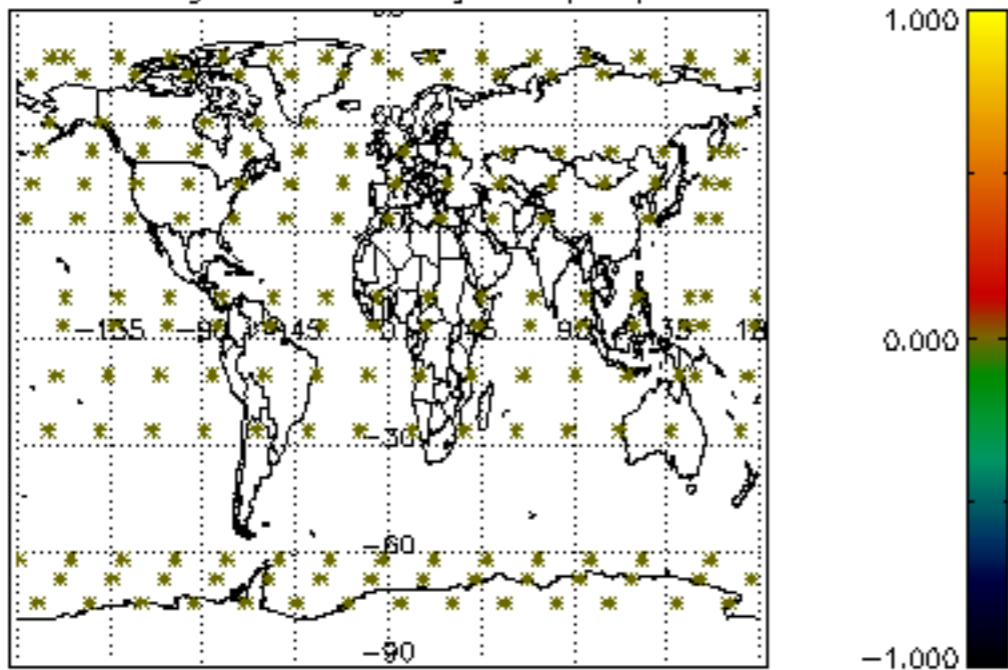
Percentage of star falling outside central band per profile



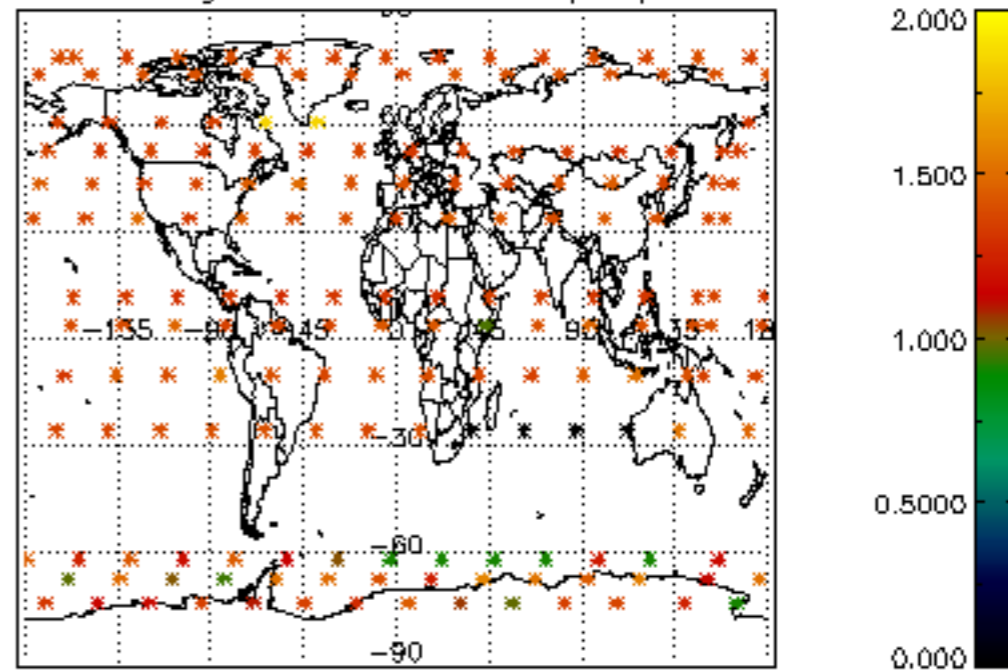
Percentage of saturation errors per profile



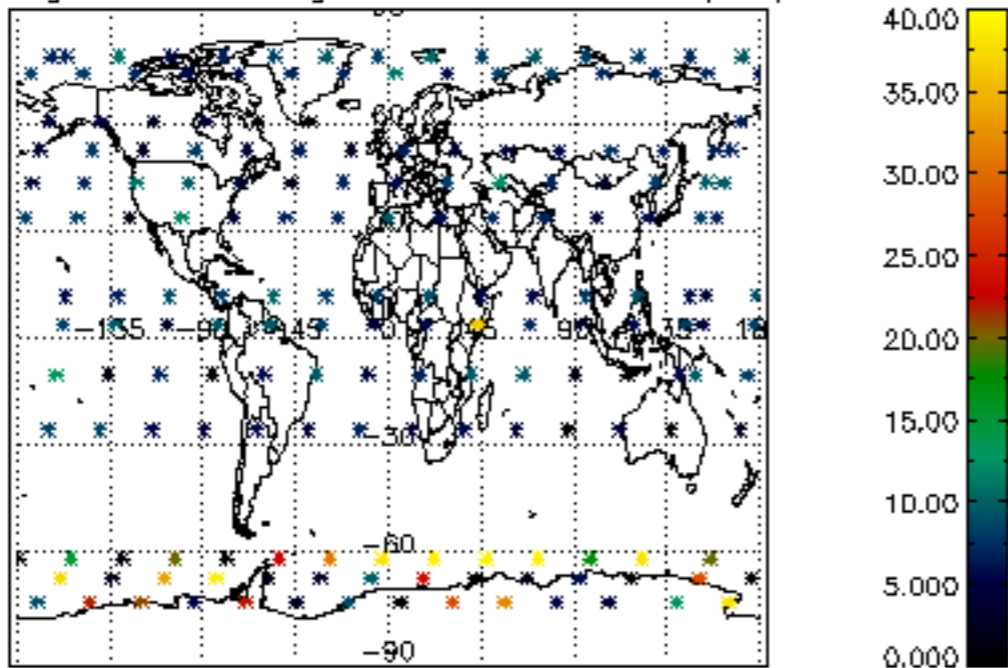
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

