

# 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 17:14:57
Data source version	GOMOS/6.01
Start time of products	13-03-2007 (13MAR2007 00:00:00)
Stop time of products	14-03-2007 (14MAR2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	254
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__2PRFIN20070313_000126_000000472056_00202_26308_0120.N1	13-MAR-2007 00:01:26	Bright	47.000	119	14Eta Dra	2.7270	4700.0	94	26308	No
2	GOM_NL__2PRFIN20070313_000709_000000482056_00202_26308_0121.N1	13-MAR-2007 00:07:09	Bright	48.000	69	33Gam Dra	2.2310	3800.0	96	26308	No
3	GOM_NL__2PRFIN20070313_001013_000000382056_00202_26308_0122.N1	13-MAR-2007 00:10:13	Bright	37.500	144	18Del Cyg	2.8600	11000.	75	26308	No
4	GOM_NL__2PRFIN20070313_002122_000000482056_00202_26308_0123.N1	13-MAR-2007 00:21:22	Bright	47.500	11	53Alp Aql	0.76500	8000.0	95	26308	No
5	GOM_NL__2PRFIN20070313_003314_000000442056_00202_26308_0124.N1	13-MAR-2007 00:33:14	Dark	44.000	57	34Sig Sgr	2.0660	26000.	88	26308	No
6	GOM_NL__2PRFIN20070313_003637_000000442056_00202_26308_0125.N1	13-MAR-2007 00:36:37	Dark	44.000	38	20Eps Sgr	1.8360	11000.	88	26308	No
7	GOM_NL__2PRFIN20070313_004304_000000372056_00203_26309_0122.N1	13-MAR-2007 00:43:04	Dark	37.000	75	26Eps Sco	2.2910	4250.0	74	26309	No
8	GOM_NL__2PRFIN20070313_004844_000000532056_00203_26309_0123.N1	13-MAR-2007 00:48:44	Dark	52.500	131	Gam Lup	2.8000	26000.	105	26309	No
9	GOM_NL__2PRFIN20070313_005103_000000472056_00203_26309_0124.N1	13-MAR-2007 00:51:03	Dark	47.000	78	Alp Lup	2.3040	28000.	94	26309	No
10	GOM_NL__2PRFIN20070313_005237_000000422056_00203_26309_0125.N1	13-MAR-2007 00:52:37	Dark	42.000	77	Eps Cen	2.3030	28000.	84	26309	No
11	GOM_NL__2PRFIN20070313_005535_000000422056_00203_26309_0126.N1	13-MAR-2007 00:55:35	Straylight	42.000	64	Gam Cen	2.2000	10600.	84	26309	No
12	GOM_NL__2PRFIN20070313_005739_000000522056_00203_26309_0127.N1	13-MAR-2007 00:57:39	Straylight	52.000	123	lot Cen	2.7500	10200.	104	26309	No
13	GOM_NL__2PRFIN20070313_010345_000000582056_00203_26309_0128.N1	13-MAR-2007 01:03:45	Straylight	58.000	106	9Bet Crv	2.6480	5600.0	116	26309	No
14	GOM_NL__2PRFIN20070313_010612_000000542056_00203_26309_0129.N1	13-MAR-2007 01:06:12	Straylight	53.500	100	4Gam Crv	2.5800	13100.	107	26309	No
15	GOM_NL__2PRFIN20070313_011800_000000392056_00203_26309_0130.N1	13-MAR-2007 01:18:00	Bright	38.500	51	41Gam1Leo	2.0100	4500.0	77	26309	No
16	GOM_NL__2PRFIN20070313_012601_000000402056_00203_26309_0131.N1	13-MAR-2007 01:26:01	Bright	40.000	174	52Psi UMa	3.0040	4400.0	80	26309	No
17	GOM_NL__2PRFIN20070313_012908_000000392056_00203_26309_0132.N1	13-MAR-2007 01:29:08	Bright	38.500	82	48Bet UMa	2.3650	10600.	77	26309	No
18	GOM_NL__2PRFIN20070313_013036_000000392056_00203_26309_0133.N1	13-MAR-2007 01:30:36	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	26309	No
19	GOM_NL__2PRFIN20070313_013234_000000472056_00203_26309_0134.N1	13-MAR-2007 01:32:34	Bright	46.500	32	77Eps UMa	1.7630	11000.	93	26309	No
20	GOM_NL__2PRFIN20070313_013745_000000372056_00203_26309_0135.N1	13-MAR-2007 01:37:45	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	26309	No
21	GOM_NL__2PRFIN20070313_014201_000000632056_00203_26309_0136.N1	13-MAR-2007 01:42:01	Bright	62.500	119	14Eta Dra	2.7270	4700.0	125	26309	No
22	GOM_NL__2PRFIN20070313_014745_000000492056_00203_26309_0137.N1	13-MAR-2007 01:47:45	Bright	49.000	69	33Gam Dra	2.2310	3800.0	98	26309	No
23	GOM_NL__2PRFIN20070313_015049_000000382056_00203_26309_0138.N1	13-MAR-2007 01:50:49	Bright	37.500	144	18Del Cyg	2.8600	11000.	75	26309	No
24	GOM_NL__2PRFIN20070313_020158_000000492056_00203_26309_0139.N1	13-MAR-2007 02:01:58	Bright	49.000	11	53Alp Aql	0.76500	8000.0	98	26309	No
25	GOM_NL__2PRFIN20070313_021152_000000432056_00203_26309_0140.N1	13-MAR-2007 02:11:52	Dark	43.000	155	41Pi Sgr	2.9000	6600.0	86	26309	No
26	GOM_NL__2PRFIN20070313_021351_000000442056_00203_26309_0141.N1	13-MAR-2007 02:13:51	Dark	43.500	57	34Sig Sgr	2.0660	26000.	87	26309	No
27	GOM_NL__2PRFIN20070313_021714_000000452056_00203_26309_0142.N1	13-MAR-2007 02:17:14	Dark	44.500	38	20Eps Sgr	1.8360	11000.	89	26309	No
28	GOM_NL__2PRFIN20070313_022341_000000342056_00204_26310_0133.N1	13-MAR-2007 02:23:41	Dark	34.000	75	26Eps Sco	2.2910	4250.0	68	26310	No
29	GOM_NL__2PRFIN20070313_022921_000000532056_00204_26310_0134.N1	13-MAR-2007 02:29:21	Dark	52.500	131	Gam Lup	2.8000	26000.	105	26310	No
30	GOM_NL__2PRFIN20070313_023140_000000482056_00204_26310_0135.N1	13-MAR-2007 02:31:40	Dark	47.500	78	Alp Lup	2.3040	28000.	95	26310	No
31	GOM_NL__2PRFIN20070313_023314_000000412056_00204_26310_0136.N1	13-MAR-2007 02:33:14	Dark	41.000	77	Eps Cen	2.3030	28000.	82	26310	No
32	GOM_NL__2PRFIN20070313_023612_000000422056_00204_26310_0137.N1	13-MAR-2007 02:36:12	Straylight	42.000	64	Gam Cen	2.2000	10600.	84	26310	No
33	GOM_NL__2PRFIN20070313_023816_000000512056_00204_26310_0138.N1	13-MAR-2007 02:38:16	Straylight	50.500	123	lot Cen	2.7500	10200.	101	26310	No
34	GOM_NL__2PRFIN20070313_024421_000000592056_00204_26310_0139.N1	13-MAR-2007 02:44:21	Straylight	59.000	106	9Bet Crv	2.6480	5600.0	118	26310	No
35	GOM_NL__2PRFIN20070313_024648_000000542056_00204_26310_0140.N1	13-MAR-2007 02:46:48	Straylight	54.000	100	4Gam Crv	2.5800	13100.	108	26310	No
36	GOM_NL__2PRFIN20070313_025836_000000392056_00204_26310_0141.N1	13-MAR-2007 02:58:36	Bright	39.000	51	41Gam1Leo	2.0100	4500.0	78	26310	No
37	GOM_NL__2PRFIN20070313_030636_000000402056_00204_26310_0142.N1	13-MAR-2007 03:06:36	Bright	39.500	174	52Psi UMa	3.0040	4400.0	79	26310	No
38	GOM_NL__2PRFIN20070313_030943_000000382056_00204_26310_0143.N1	13-MAR-2007 03:09:43	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	26310	No
39	GOM_NL__2PRFIN20070313_031111_000000382056_00204_26310_0144.N1	13-MAR-2007 03:11:11	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	26310	No
40	GOM_NL__2PRFIN20070313_031309_000000462056_00204_26310_0145.N1	13-MAR-2007 03:13:09	Bright	45.500	32	77Eps UMa	1.7630	11000.	91	26310	No
41	GOM_NL__2PRFIN20070313_031820_000000402056_00204_26310_0146.N1	13-MAR-2007 03:18:20	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	26310	No
42	GOM_NL__2PRFIN20070313_032236_000000452056_00204_26310_0147.N1	13-MAR-2007 03:22:36	Bright	45.000	119	14Eta Dra	2.7270	4700.0	90	26310	No





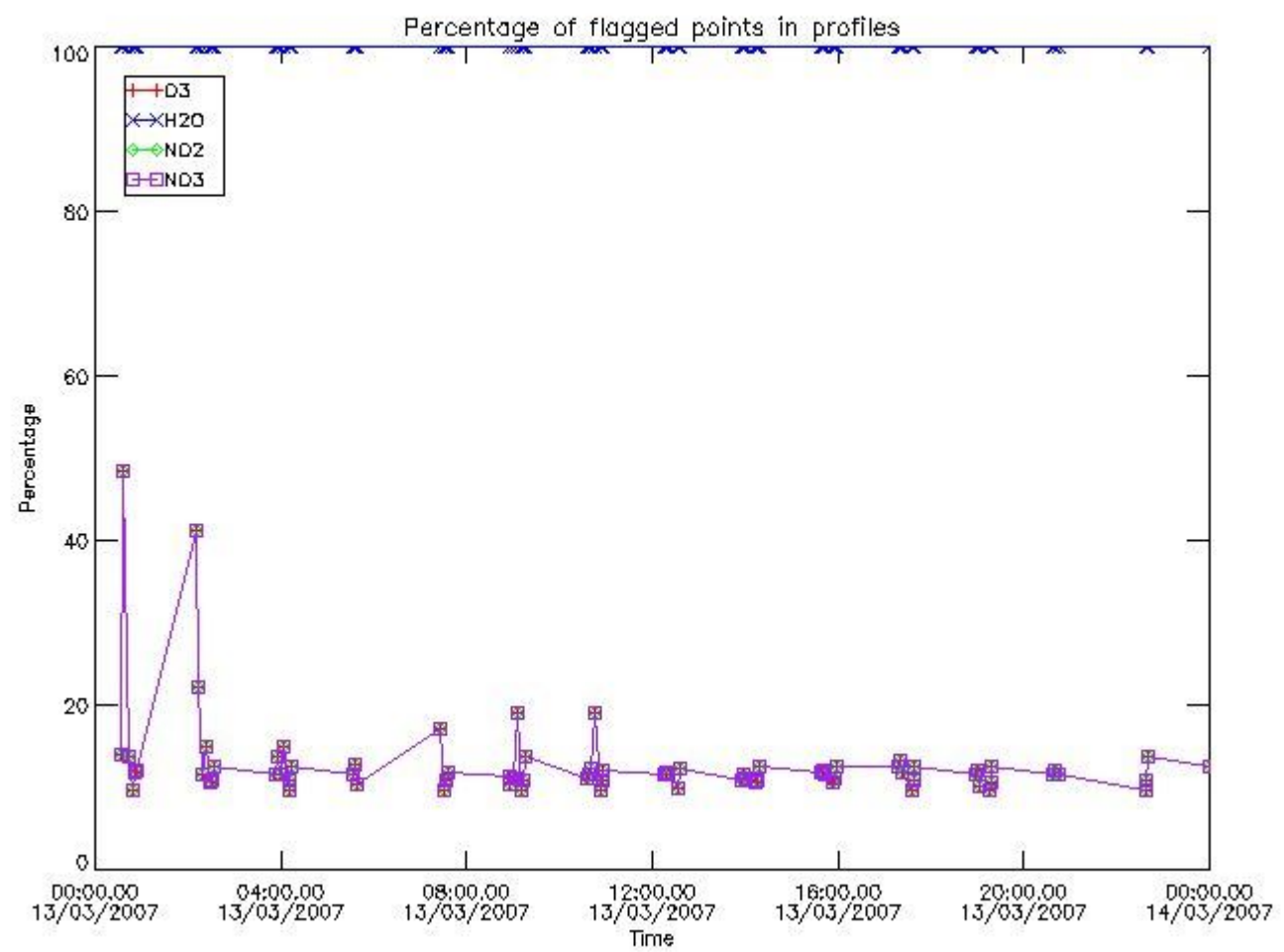


220	GOM_NL__2PRFIN20070313_193023_000000582056_00214_26320_0292.N1	13-MAR-2007 19:30:23	Straylight	57.500	106	9Bet Crv	2.6480	5600.0	115	26320	No
221	GOM_NL__2PRFIN20070313_193248_000000512056_00214_26320_0293.N1	13-MAR-2007 19:32:48	Straylight	50.500	100	4Gam Crv	2.5800	13100.	101	26320	No
222	GOM_NL__2PRFIN20070313_194434_000000392056_00214_26320_0294.N1	13-MAR-2007 19:44:34	Bright	39.000	51	41Gam1Leo	2.0100	4500.0	78	26320	No
223	GOM_NL__2PRFIN20070313_195232_000000392056_00214_26320_0295.N1	13-MAR-2007 19:52:32	Bright	38.500	174	52Psi UMa	3.0040	4400.0	77	26320	No
224	GOM_NL__2PRFIN20070313_195540_000000382056_00214_26320_0296.N1	13-MAR-2007 19:55:40	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	26320	No
225	GOM_NL__2PRFIN20070313_195708_000000382056_00214_26320_0297.N1	13-MAR-2007 19:57:08	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	26320	No
226	GOM_NL__2PRFIN20070313_195901_000000462056_00214_26320_0298.N1	13-MAR-2007 19:59:01	Bright	45.500	32	77Eps UMa	1.7630	11000.	91	26320	No
227	GOM_NL__2PRFIN20070313_200416_000000412056_00214_26320_0299.N1	13-MAR-2007 20:04:16	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	26320	No
228	GOM_NL__2PRFIN20070313_200830_000000482056_00214_26320_0300.N1	13-MAR-2007 20:08:30	Bright	48.000	119	14Eta Dra	2.7270	4700.0	96	26320	No
229	GOM_NL__2PRFIN20070313_201416_000000512056_00214_26320_0301.N1	13-MAR-2007 20:14:16	Bright	51.000	69	33Gam Dra	2.2310	3800.0	102	26320	No
230	GOM_NL__2PRFIN20070313_201724_000000402056_00214_26320_0302.N1	13-MAR-2007 20:17:24	Bright	39.500	144	18Del Cyg	2.8600	11000.	79	26320	No
231	GOM_NL__2PRFIN20070313_201929_000000522056_00214_26320_0303.N1	13-MAR-2007 20:19:29	Bright	52.000	5	3Alp Lyr	0.033000	11000.	104	26320	No
232	GOM_NL__2PRFIN20070313_202838_000000522056_00214_26320_0304.N1	13-MAR-2007 20:28:38	Tw_i_and_stray	51.500	11	53Alp Aql	0.76500	8000.0	103	26320	No
233	GOM_NL__2PRFIN20070313_203834_000000452056_00214_26320_0305.N1	13-MAR-2007 20:38:34	Dark	44.500	155	41Pi Sgr	2.9000	6600.0	89	26320	No
234	GOM_NL__2PRFIN20070313_204107_000000432056_00214_26320_0306.N1	13-MAR-2007 20:41:07	Dark	42.500	103	38Zet Sgr	2.6000	9700.0	85	26320	No
235	GOM_NL__2PRFIN20070313_204359_000000452056_00214_26320_0307.N1	13-MAR-2007 20:43:59	Dark	44.500	38	20Eps Sgr	1.8360	11000.	89	26320	No
236	GOM_NL__2PRFIN20070313_223647_000000532056_00216_26322_0318.N1	13-MAR-2007 22:36:47	Dark	52.500	131	Gam Lup	2.8000	26000.	105	26322	No
237	GOM_NL__2PRFIN20070313_223902_000000482056_00216_26322_0319.N1	13-MAR-2007 22:39:02	Dark	47.500	78	Alp Lup	2.3040	28000.	95	26322	No
238	GOM_NL__2PRFIN20070313_224032_000000412056_00216_26322_0320.N1	13-MAR-2007 22:40:32	Dark	40.500	77	Eps Cen	2.3030	28000.	81	26322	No
239	GOM_NL__2PRFIN20070313_224328_000000442056_00216_26322_0321.N1	13-MAR-2007 22:43:28	Straylight	43.500	64	Gam Cen	2.2000	10600.	87	26322	No
240	GOM_NL__2PRFIN20070313_224535_000000512056_00216_26322_0322.N1	13-MAR-2007 22:45:35	Straylight	51.000	123	lot Cen	2.7500	10200.	102	26322	No
241	GOM_NL__2PRFIN20070313_225135_000000562056_00216_26322_0323.N1	13-MAR-2007 22:51:35	Straylight	55.500	106	9Bet Crv	2.6480	5600.0	111	26322	No
242	GOM_NL__2PRFIN20070313_225400_000000542056_00216_26322_0324.N1	13-MAR-2007 22:54:00	Straylight	54.000	100	4Gam Crv	2.5800	13100.	108	26322	No
243	GOM_NL__2PRFIN20070313_230638_000000402056_00216_26322_0325.N1	13-MAR-2007 23:06:38	Bright	39.500	96	68Del Leo	2.5600	9300.0	79	26322	No
244	GOM_NL__2PRFIN20070313_231343_000000412056_00216_26322_0326.N1	13-MAR-2007 23:13:43	Bright	40.500	174	52Psi UMa	3.0040	4400.0	81	26322	No
245	GOM_NL__2PRFIN20070313_231651_000000572056_00216_26322_0327.N1	13-MAR-2007 23:16:51	Bright	57.000	82	48Bet UMa	2.3650	10600.	114	26322	No
246	GOM_NL__2PRFIN20070313_231819_000000392056_00216_26322_0328.N1	13-MAR-2007 23:18:19	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	26322	No
247	GOM_NL__2PRFIN20070313_232011_000000462056_00216_26322_0329.N1	13-MAR-2007 23:20:11	Bright	45.500	32	77Eps UMa	1.7630	11000.	91	26322	No
248	GOM_NL__2PRFIN20070313_232527_000000372056_00216_26322_0330.N1	13-MAR-2007 23:25:27	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	26322	No
249	GOM_NL__2PRFIN20070313_232941_000000472056_00216_26322_0331.N1	13-MAR-2007 23:29:41	Bright	46.500	119	14Eta Dra	2.7270	4700.0	93	26322	No
250	GOM_NL__2PRFIN20070313_233527_000000502056_00216_26322_0332.N1	13-MAR-2007 23:35:27	Bright	49.500	69	33Gam Dra	2.2310	3800.0	99	26322	No
251	GOM_NL__2PRFIN20070313_233835_000000382056_00216_26322_0333.N1	13-MAR-2007 23:38:35	Bright	38.000	144	18Del Cyg	2.8600	11000.	76	26322	No
252	GOM_NL__2PRFIN20070313_234041_000000532056_00216_26322_0334.N1	13-MAR-2007 23:40:41	Bright	52.500	5	3Alp Lyr	0.033000	11000.	105	26322	No
253	GOM_NL__2PRFIN20070313_234950_000000512056_00216_26322_0335.N1	13-MAR-2007 23:49:50	Tw_i_and_stray	51.000	11	53Alp Aql	0.76500	8000.0	102	26322	No
254	GOM_NL__2PRFIN20070313_235948_000000452056_00216_26322_0336.N1	13-MAR-2007 23:59:48	Dark	44.500	155	41Pi Sgr	2.9000	6600.0	89	26322	No

### 3. Quality information per product

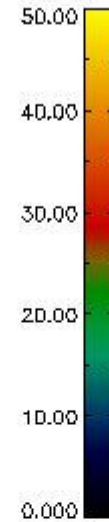
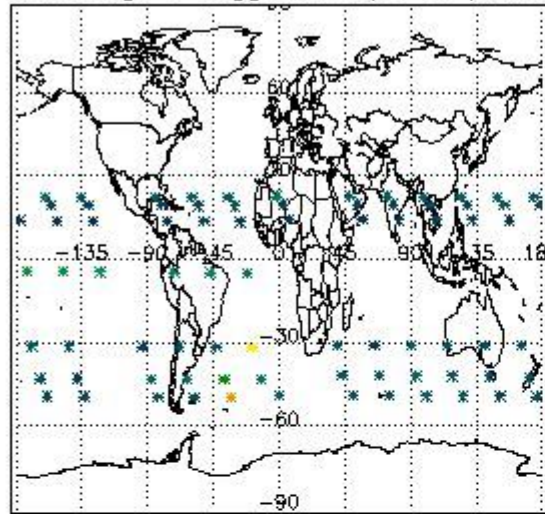
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

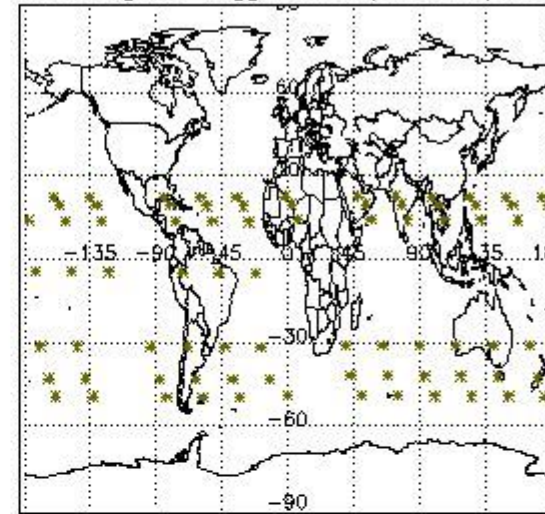


*3.2 Plot quality information per product (world map)*

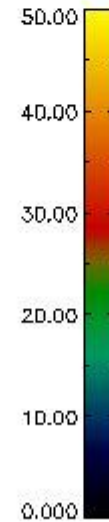
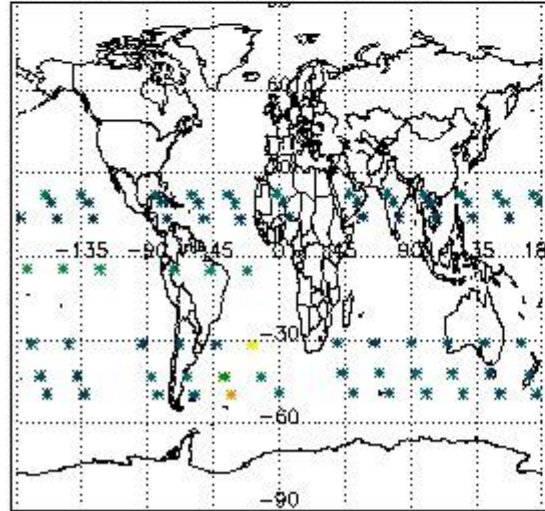
Percentage of flagged data per O3 profile



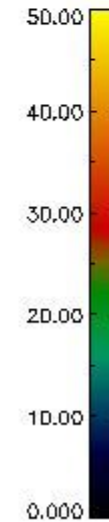
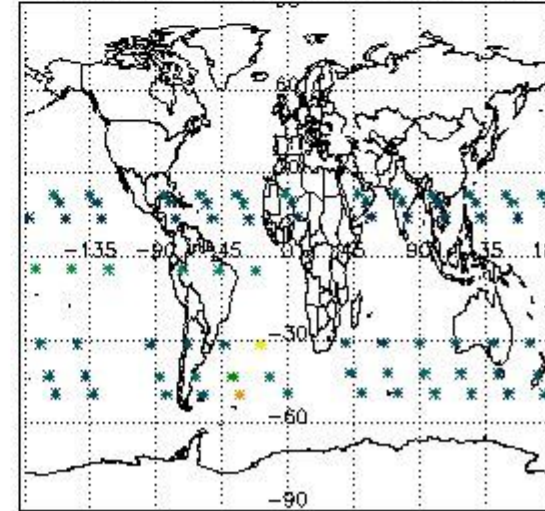
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile



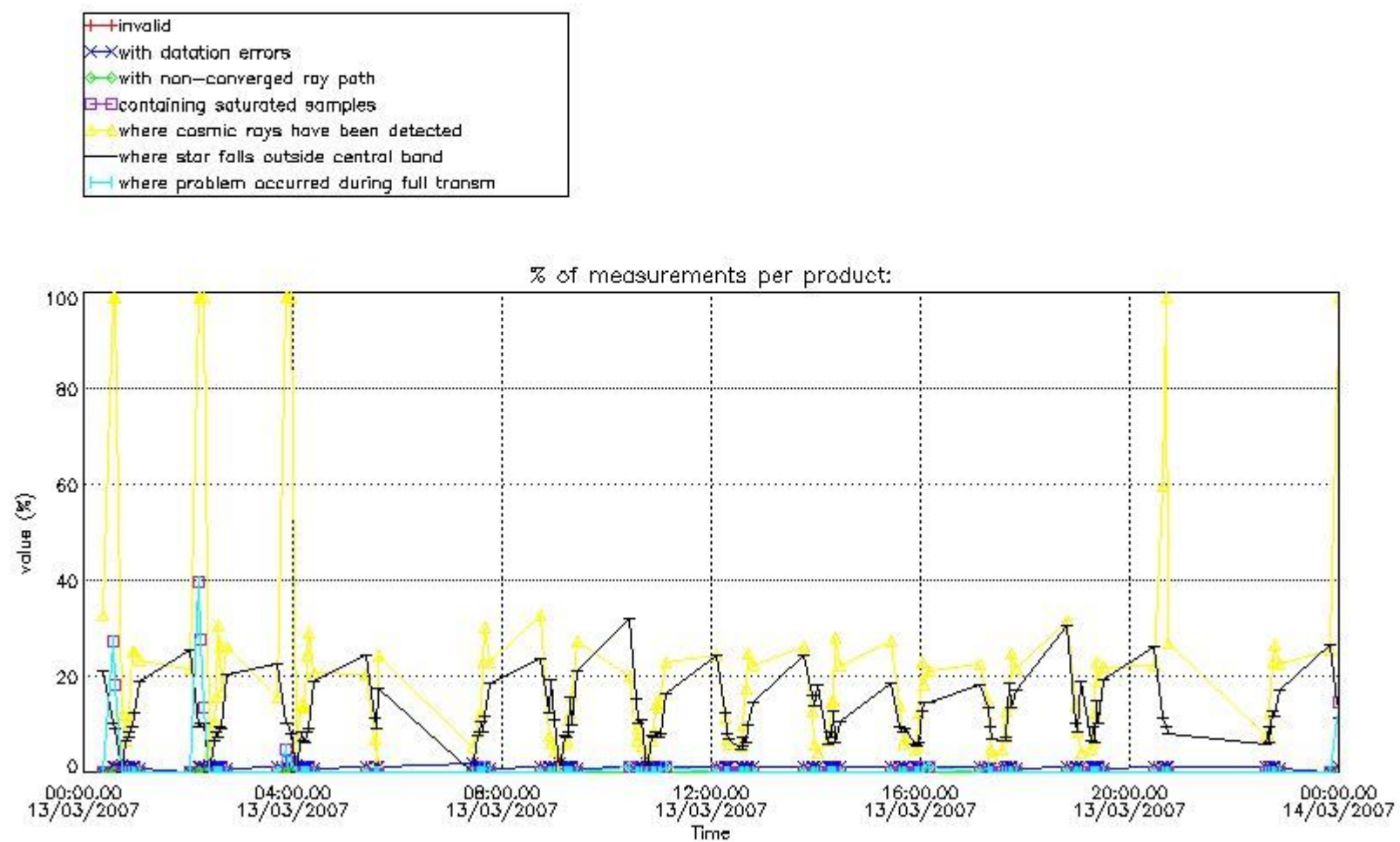
#### 4. Level 1 quality information per product

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.

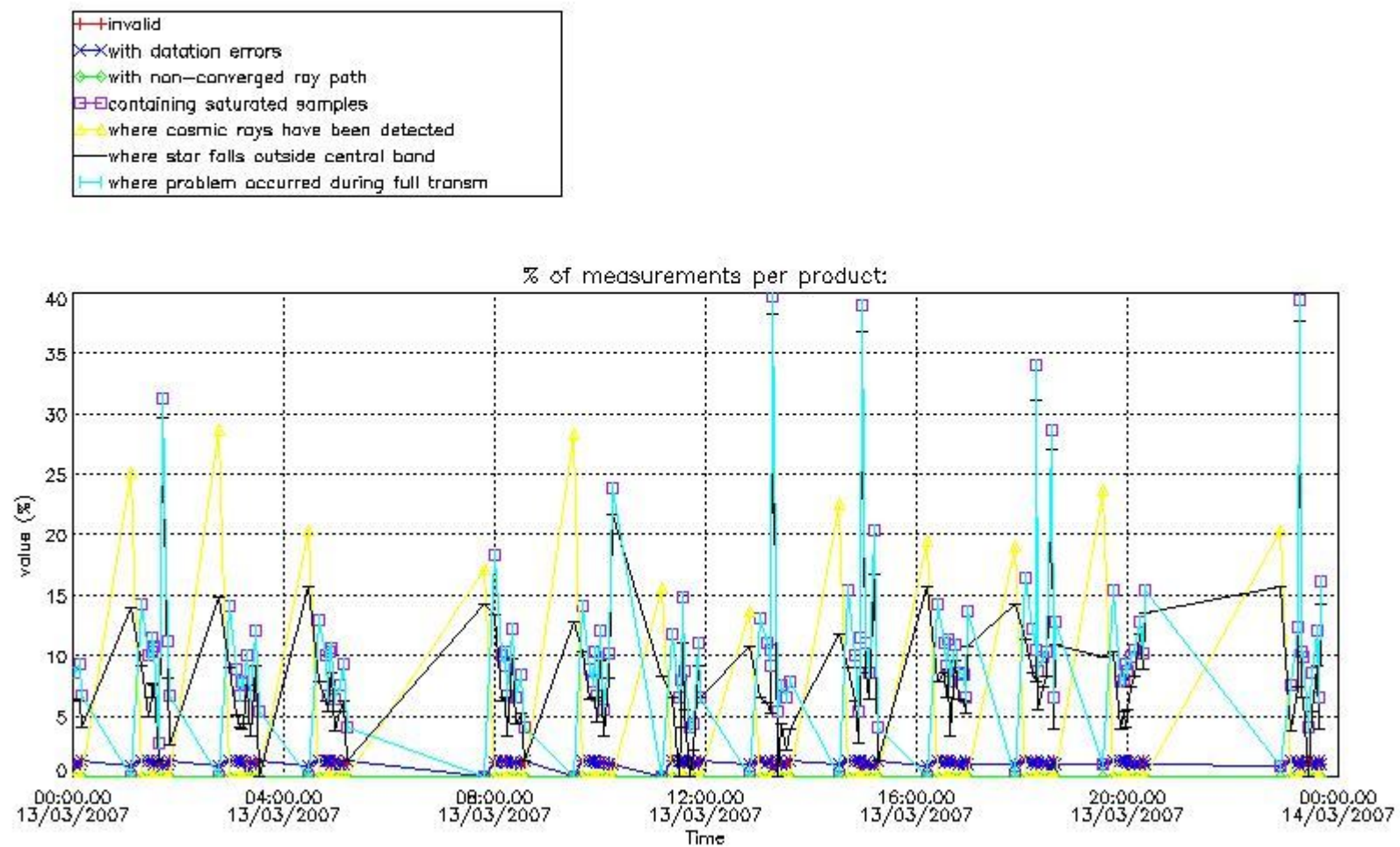
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

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



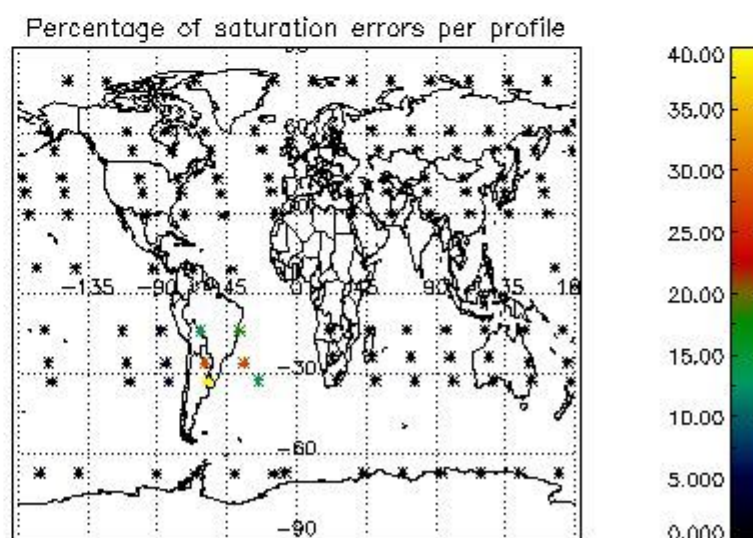
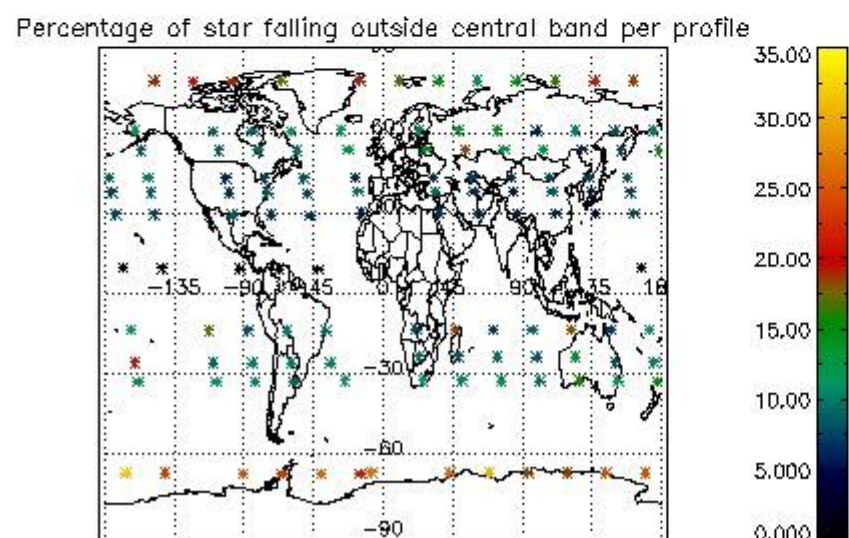
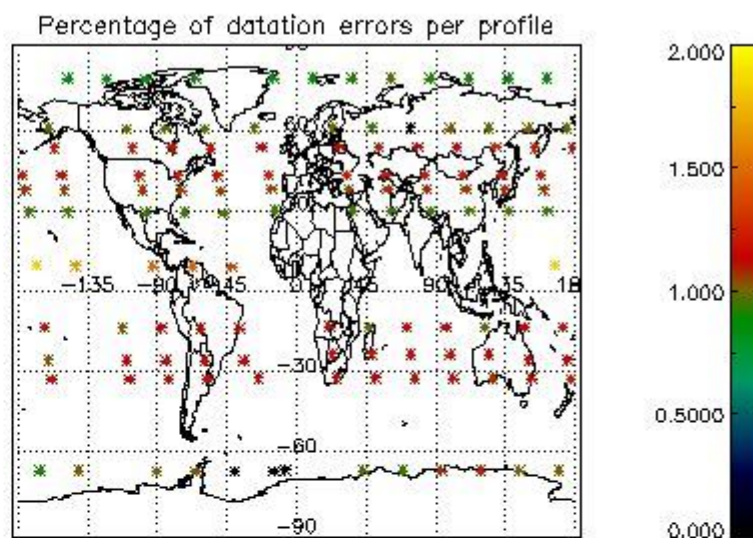
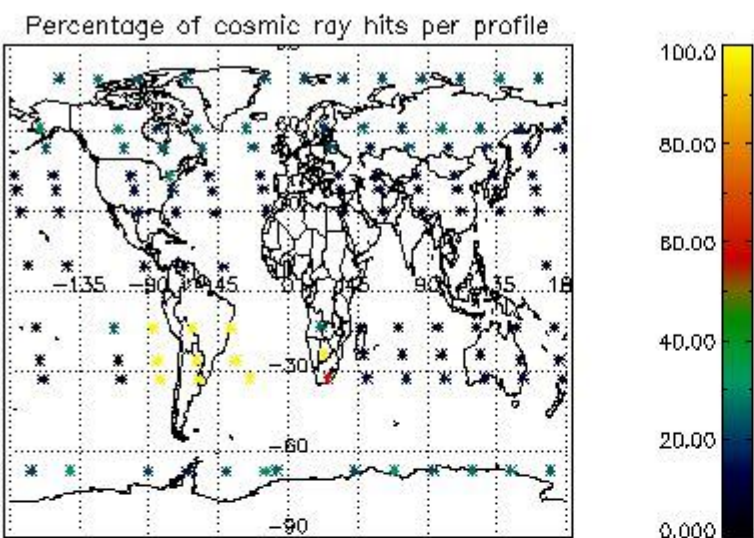


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

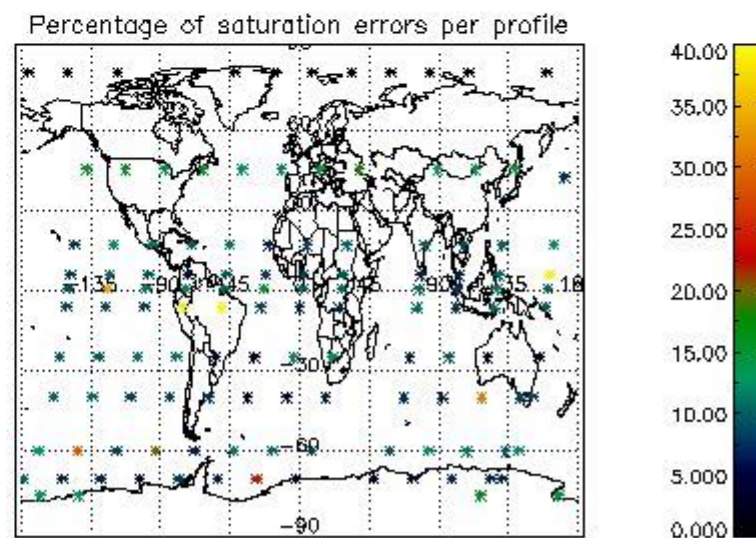
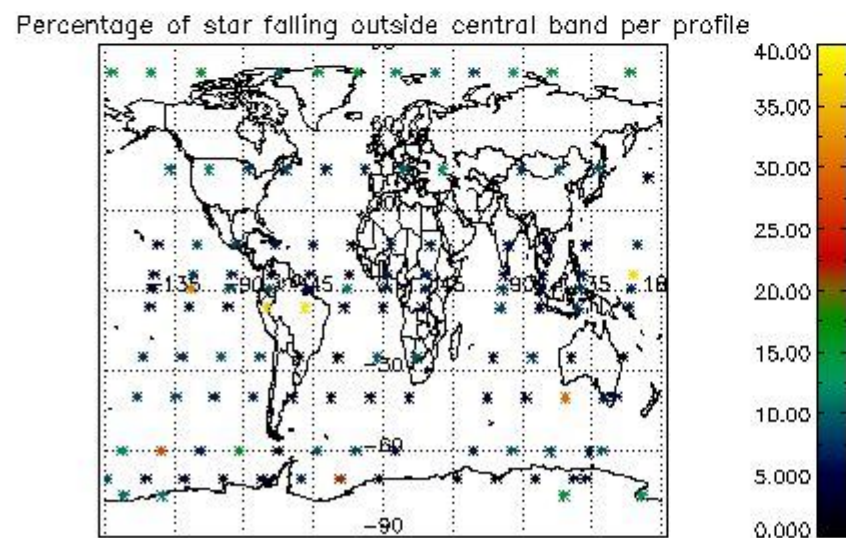
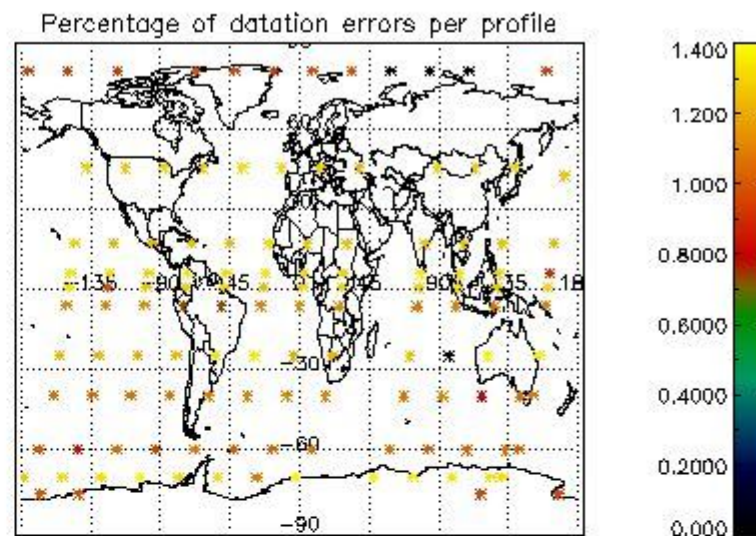
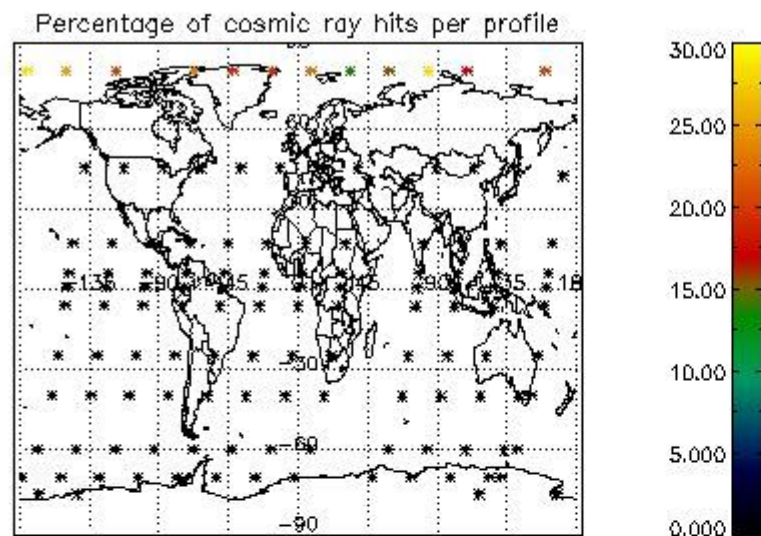


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

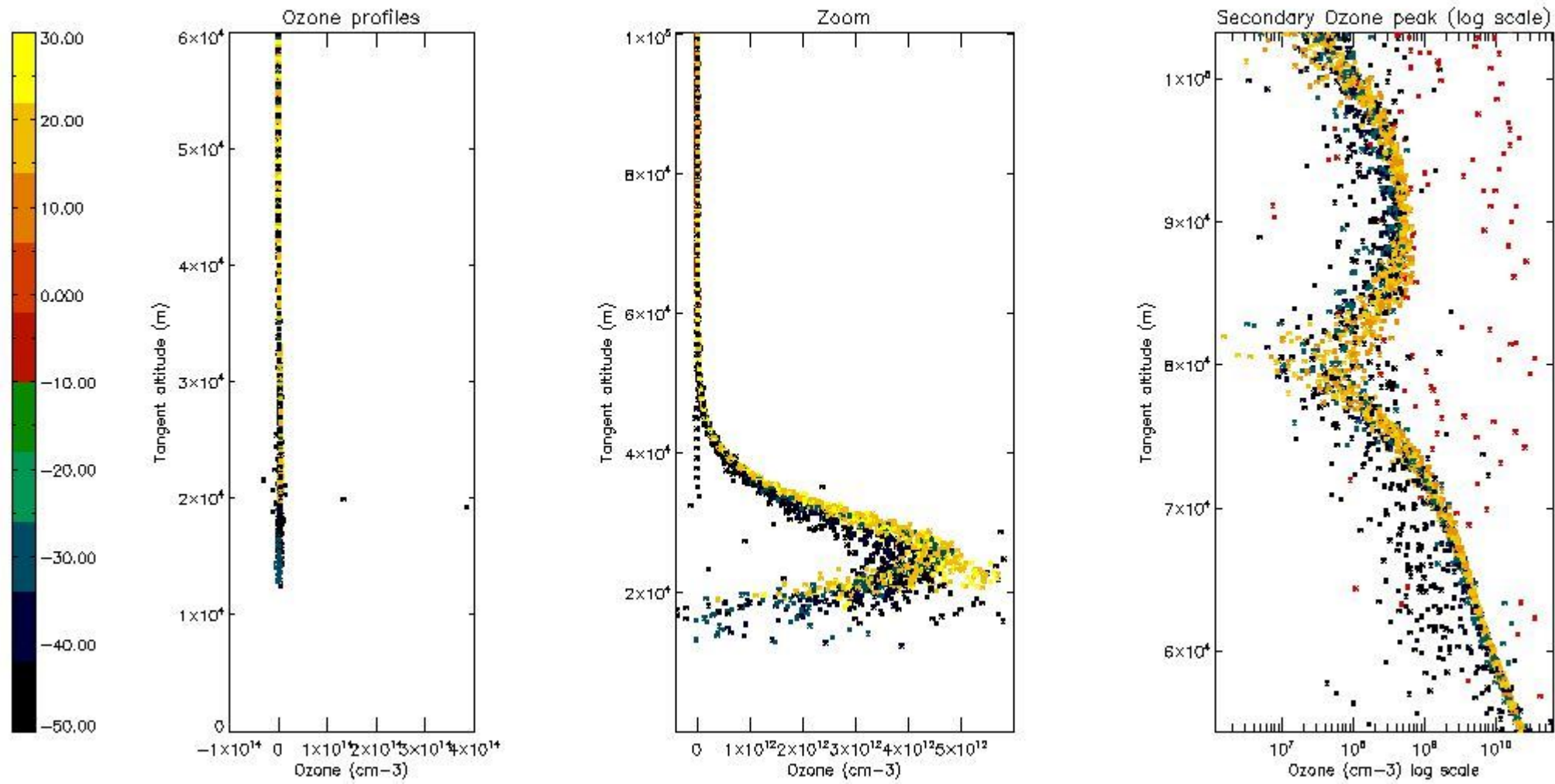
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	31
STD < 20	18

STD < 10	15
STD < 5	11

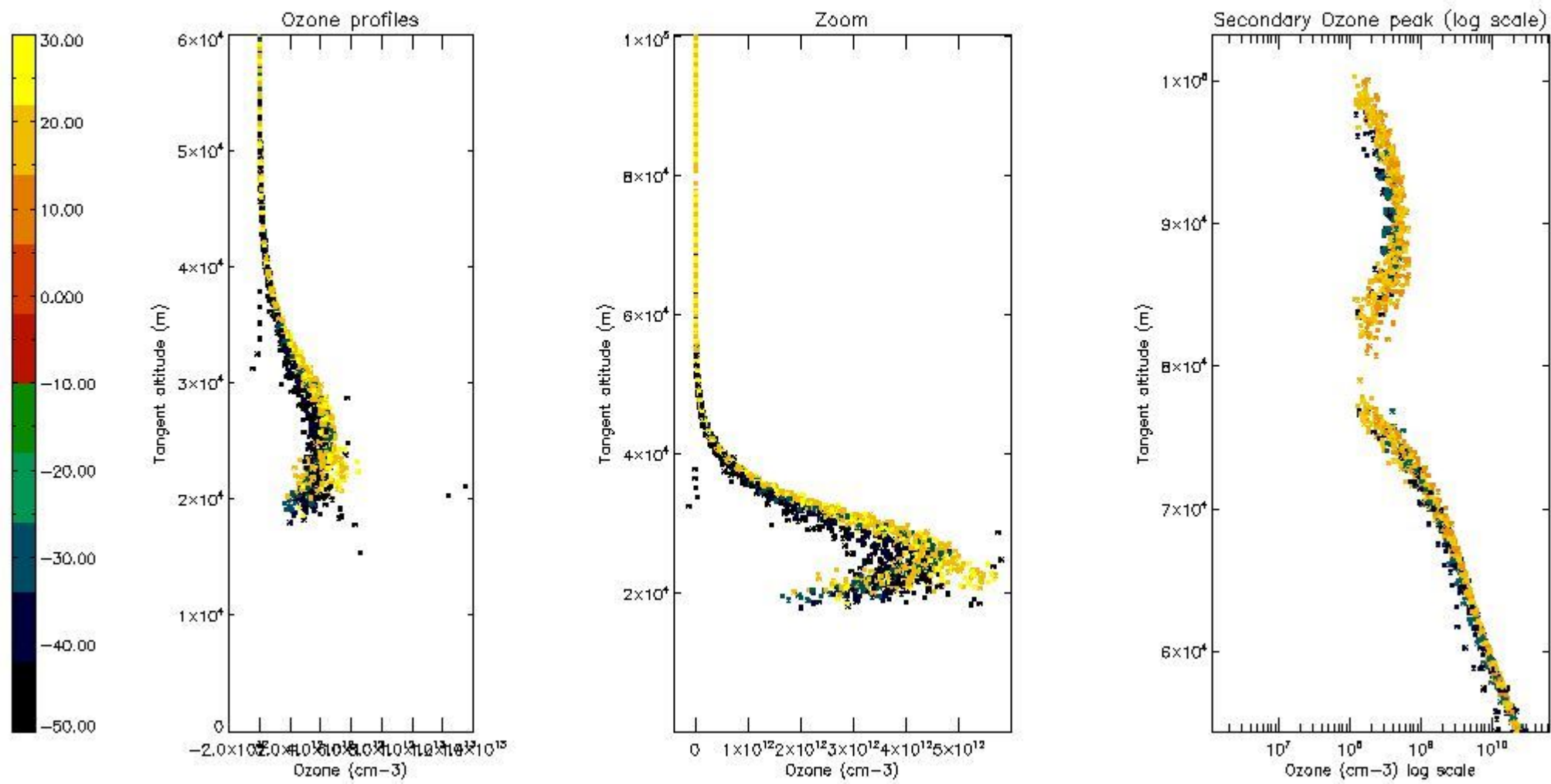
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



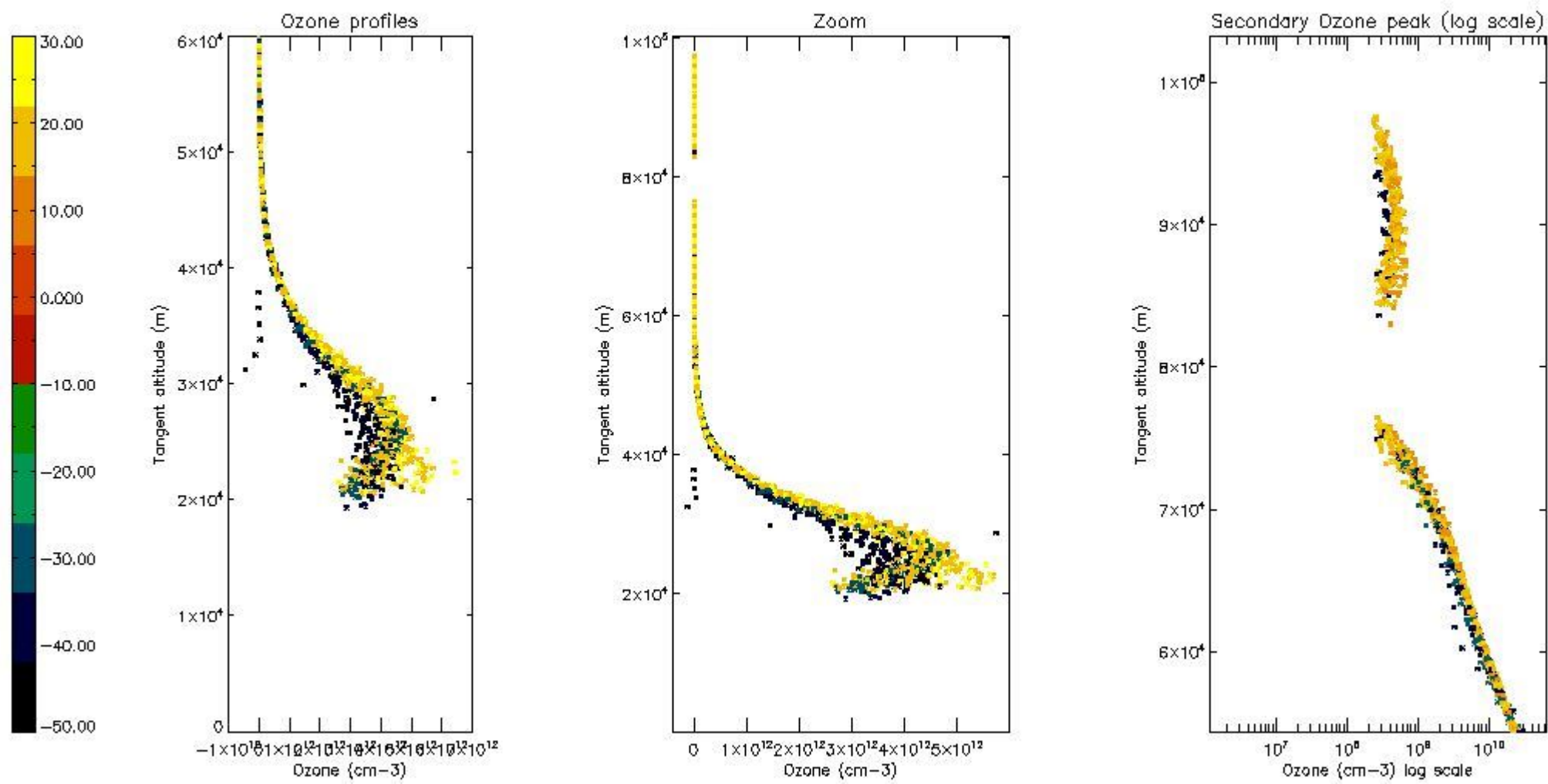
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



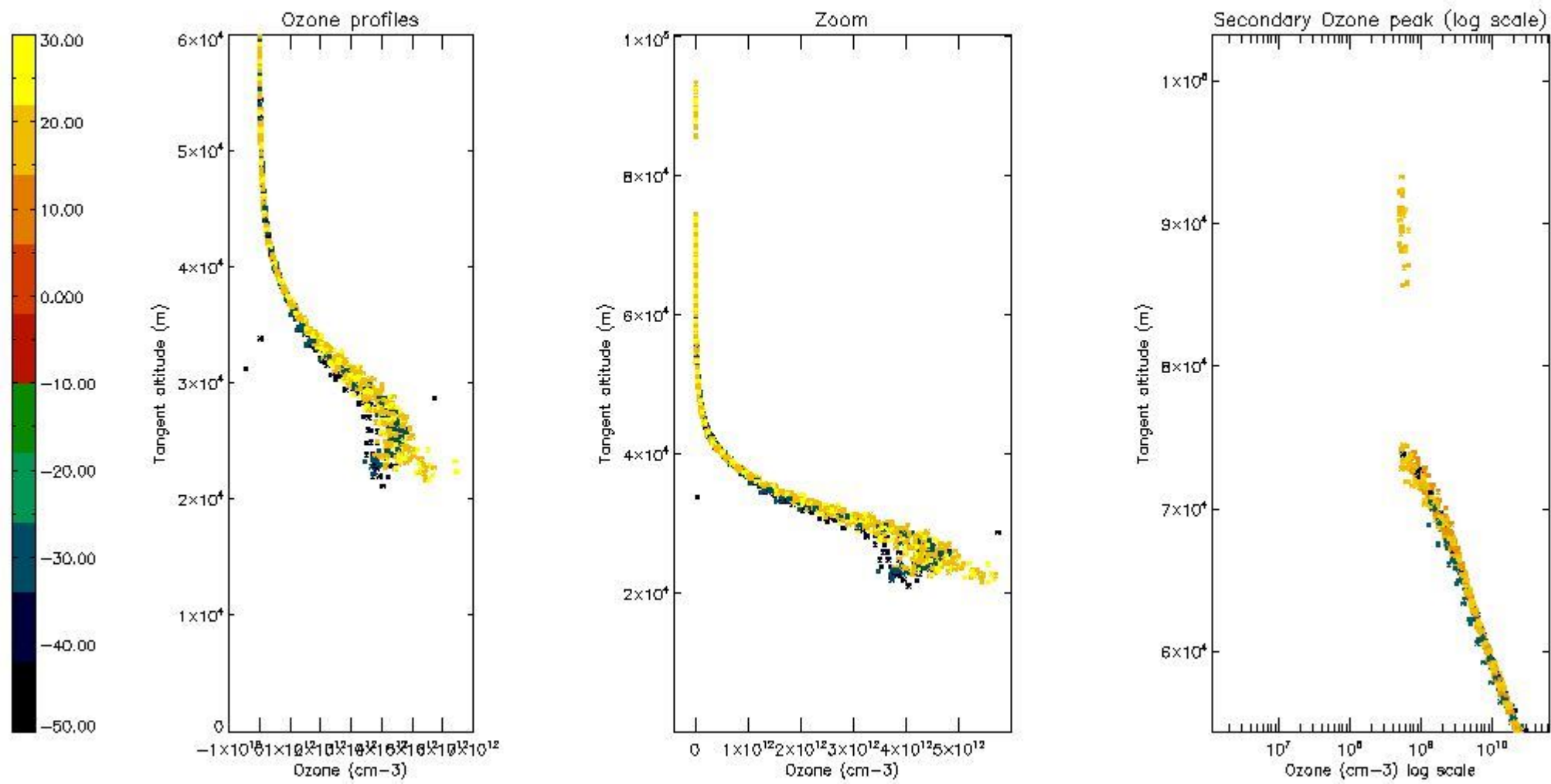
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



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

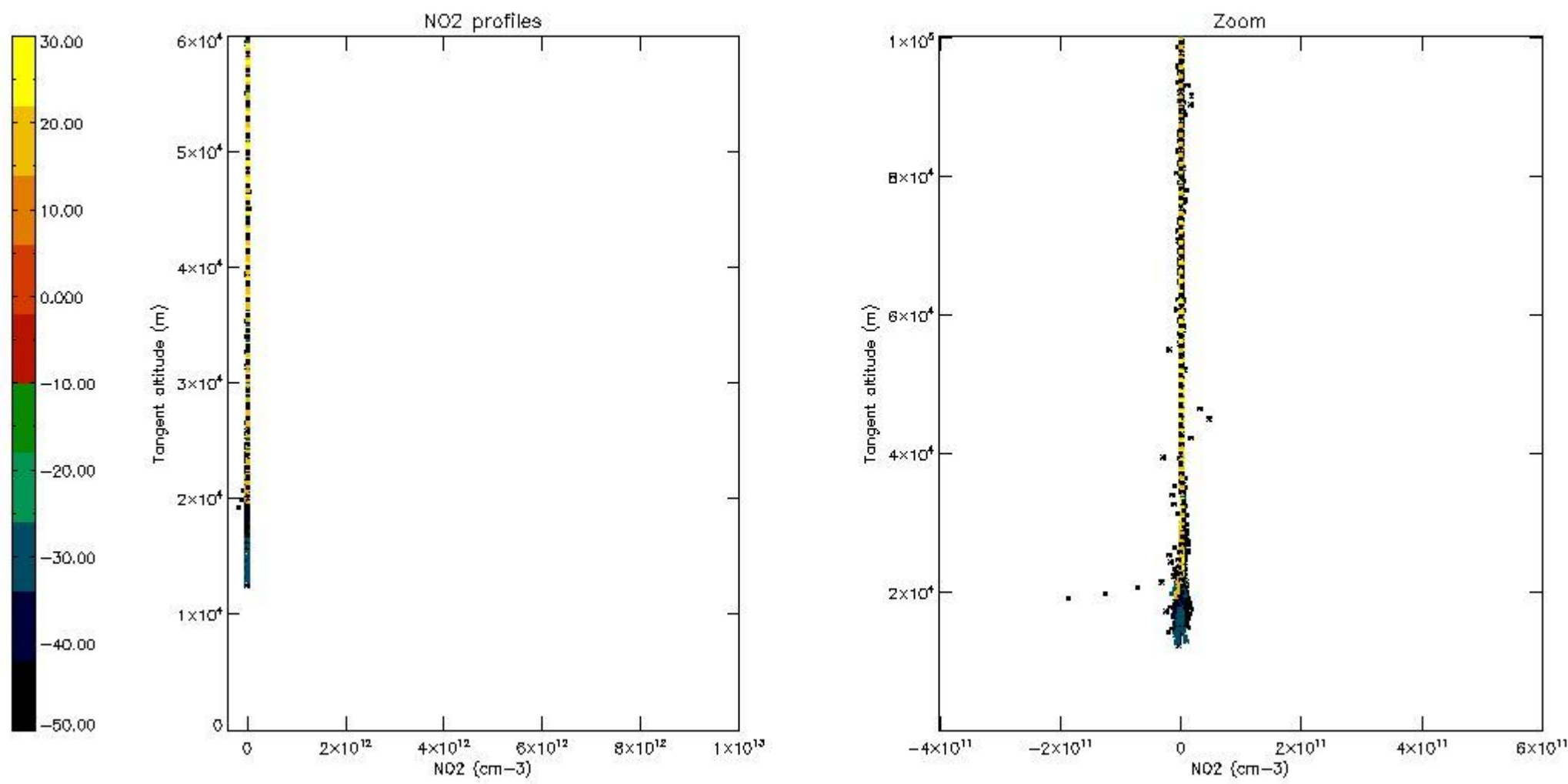
The colorbar represents the latitude.



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

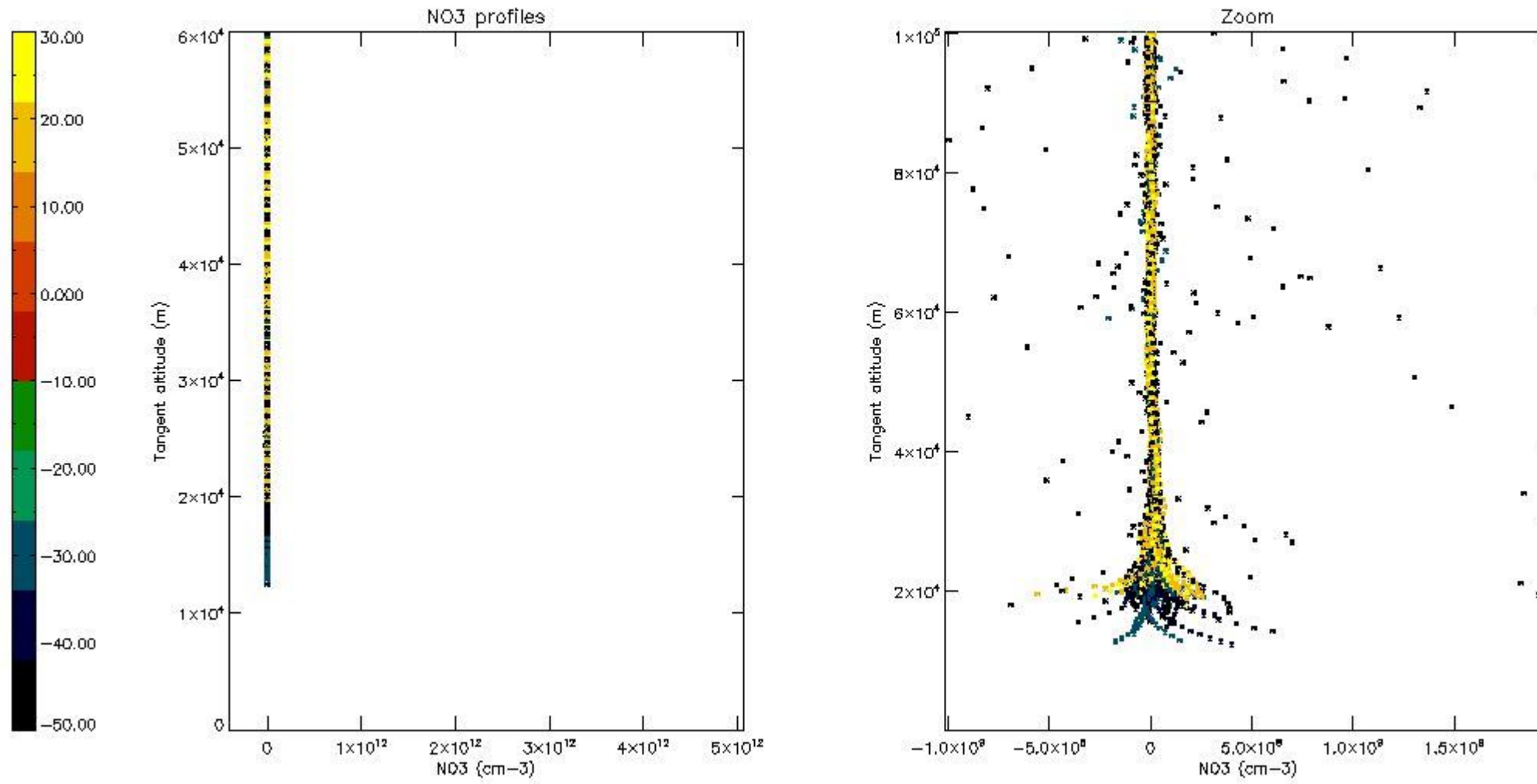
The colorbar represents the latitude.





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

The colorbar represents the latitude.



## 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	13-MAR-2007 00:01:26
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	13-MAR-2007 00:01:26
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	13-MAR-2007 00:01:26

# GOMOS Level 2 Daily Report

## SUMMARY

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

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

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

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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% \(dark without errors\)](#)

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

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

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

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

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

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

Item	Value
Time of report generation	22APR2013 17:14:57
Data source version	GOMOS/6.01
Start time of products	13-03-2007 (13MAR2007 00:00:00)
Stop time of products	14-03-2007 (14MAR2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	254
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__2PRFIN20070313_000126_000000472056_00202_26308_0120.N1	13-MAR-2007 00:01:26	Bright	47.000	119	14Eta Dra	2.7270	4700.0	94	26308	No
2	GOM_NL__2PRFIN20070313_000709_000000482056_00202_26308_0121.N1	13-MAR-2007 00:07:09	Bright	48.000	69	33Gam Dra	2.2310	3800.0	96	26308	No
3	GOM_NL__2PRFIN20070313_001013_000000382056_00202_26308_0122.N1	13-MAR-2007 00:10:13	Bright	37.500	144	18Del Cyg	2.8600	11000.	75	26308	No
4	GOM_NL__2PRFIN20070313_002122_000000482056_00202_26308_0123.N1	13-MAR-2007 00:21:22	Bright	47.500	11	53Alp Aql	0.76500	8000.0	95	26308	No
5	GOM_NL__2PRFIN20070313_003314_000000442056_00202_26308_0124.N1	13-MAR-2007 00:33:14	Dark	44.000	57	34Sig Sgr	2.0660	26000.	88	26308	No
6	GOM_NL__2PRFIN20070313_003637_000000442056_00202_26308_0125.N1	13-MAR-2007 00:36:37	Dark	44.000	38	20Eps Sgr	1.8360	11000.	88	26308	No
7	GOM_NL__2PRFIN20070313_004304_000000372056_00203_26309_0122.N1	13-MAR-2007 00:43:04	Dark	37.000	75	26Eps Sco	2.2910	4250.0	74	26309	No
8	GOM_NL__2PRFIN20070313_004844_000000532056_00203_26309_0123.N1	13-MAR-2007 00:48:44	Dark	52.500	131	Gam Lup	2.8000	26000.	105	26309	No
9	GOM_NL__2PRFIN20070313_005103_000000472056_00203_26309_0124.N1	13-MAR-2007 00:51:03	Dark	47.000	78	Alp Lup	2.3040	28000.	94	26309	No
10	GOM_NL__2PRFIN20070313_005237_000000422056_00203_26309_0125.N1	13-MAR-2007 00:52:37	Dark	42.000	77	Eps Cen	2.3030	28000.	84	26309	No
11	GOM_NL__2PRFIN20070313_005535_000000422056_00203_26309_0126.N1	13-MAR-2007 00:55:35	Straylight	42.000	64	Gam Cen	2.2000	10600.	84	26309	No
12	GOM_NL__2PRFIN20070313_005739_000000522056_00203_26309_0127.N1	13-MAR-2007 00:57:39	Straylight	52.000	123	lot Cen	2.7500	10200.	104	26309	No
13	GOM_NL__2PRFIN20070313_010345_000000582056_00203_26309_0128.N1	13-MAR-2007 01:03:45	Straylight	58.000	106	9Bet Crv	2.6480	5600.0	116	26309	No
14	GOM_NL__2PRFIN20070313_010612_000000542056_00203_26309_0129.N1	13-MAR-2007 01:06:12	Straylight	53.500	100	4Gam Crv	2.5800	13100.	107	26309	No
15	GOM_NL__2PRFIN20070313_011800_000000392056_00203_26309_0130.N1	13-MAR-2007 01:18:00	Bright	38.500	51	41Gam1Leo	2.0100	4500.0	77	26309	No
16	GOM_NL__2PRFIN20070313_012601_000000402056_00203_26309_0131.N1	13-MAR-2007 01:26:01	Bright	40.000	174	52Psi UMa	3.0040	4400.0	80	26309	No
17	GOM_NL__2PRFIN20070313_012908_000000392056_00203_26309_0132.N1	13-MAR-2007 01:29:08	Bright	38.500	82	48Bet UMa	2.3650	10600.	77	26309	No
18	GOM_NL__2PRFIN20070313_013036_000000392056_00203_26309_0133.N1	13-MAR-2007 01:30:36	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	26309	No
19	GOM_NL__2PRFIN20070313_013234_000000472056_00203_26309_0134.N1	13-MAR-2007 01:32:34	Bright	46.500	32	77Eps UMa	1.7630	11000.	93	26309	No
20	GOM_NL__2PRFIN20070313_013745_000000372056_00203_26309_0135.N1	13-MAR-2007 01:37:45	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	26309	No
21	GOM_NL__2PRFIN20070313_014201_000000632056_00203_26309_0136.N1	13-MAR-2007 01:42:01	Bright	62.500	119	14Eta Dra	2.7270	4700.0	125	26309	No
22	GOM_NL__2PRFIN20070313_014745_000000492056_00203_26309_0137.N1	13-MAR-2007 01:47:45	Bright	49.000	69	33Gam Dra	2.2310	3800.0	98	26309	No
23	GOM_NL__2PRFIN20070313_015049_000000382056_00203_26309_0138.N1	13-MAR-2007 01:50:49	Bright	37.500	144	18Del Cyg	2.8600	11000.	75	26309	No
24	GOM_NL__2PRFIN20070313_020158_000000492056_00203_26309_0139.N1	13-MAR-2007 02:01:58	Bright	49.000	11	53Alp Aql	0.76500	8000.0	98	26309	No
25	GOM_NL__2PRFIN20070313_021152_000000432056_00203_26309_0140.N1	13-MAR-2007 02:11:52	Dark	43.000	155	41Pi Sgr	2.9000	6600.0	86	26309	No
26	GOM_NL__2PRFIN20070313_021351_000000442056_00203_26309_0141.N1	13-MAR-2007 02:13:51	Dark	43.500	57	34Sig Sgr	2.0660	26000.	87	26309	No
27	GOM_NL__2PRFIN20070313_021714_000000452056_00203_26309_0142.N1	13-MAR-2007 02:17:14	Dark	44.500	38	20Eps Sgr	1.8360	11000.	89	26309	No
28	GOM_NL__2PRFIN20070313_022341_000000342056_00204_26310_0133.N1	13-MAR-2007 02:23:41	Dark	34.000	75	26Eps Sco	2.2910	4250.0	68	26310	No
29	GOM_NL__2PRFIN20070313_022921_000000532056_00204_26310_0134.N1	13-MAR-2007 02:29:21	Dark	52.500	131	Gam Lup	2.8000	26000.	105	26310	No
30	GOM_NL__2PRFIN20070313_023140_000000482056_00204_26310_0135.N1	13-MAR-2007 02:31:40	Dark	47.500	78	Alp Lup	2.3040	28000.	95	26310	No
31	GOM_NL__2PRFIN20070313_023314_000000412056_00204_26310_0136.N1	13-MAR-2007 02:33:14	Dark	41.000	77	Eps Cen	2.3030	28000.	82	26310	No
32	GOM_NL__2PRFIN20070313_023612_000000422056_00204_26310_0137.N1	13-MAR-2007 02:36:12	Straylight	42.000	64	Gam Cen	2.2000	10600.	84	26310	No
33	GOM_NL__2PRFIN20070313_023816_000000512056_00204_26310_0138.N1	13-MAR-2007 02:38:16	Straylight	50.500	123	lot Cen	2.7500	10200.	101	26310	No
34	GOM_NL__2PRFIN20070313_024421_000000592056_00204_26310_0139.N1	13-MAR-2007 02:44:21	Straylight	59.000	106	9Bet Crv	2.6480	5600.0	118	26310	No
35	GOM_NL__2PRFIN20070313_024648_000000542056_00204_26310_0140.N1	13-MAR-2007 02:46:48	Straylight	54.000	100	4Gam Crv	2.5800	13100.	108	26310	No
36	GOM_NL__2PRFIN20070313_025836_000000392056_00204_26310_0141.N1	13-MAR-2007 02:58:36	Bright	39.000	51	41Gam1Leo	2.0100	4500.0	78	26310	No
37	GOM_NL__2PRFIN20070313_030636_000000402056_00204_26310_0142.N1	13-MAR-2007 03:06:36	Bright	39.500	174	52Psi UMa	3.0040	4400.0	79	26310	No
38	GOM_NL__2PRFIN20070313_030943_000000382056_00204_26310_0143.N1	13-MAR-2007 03:09:43	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	26310	No
39	GOM_NL__2PRFIN20070313_031111_000000382056_00204_26310_0144.N1	13-MAR-2007 03:11:11	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	26310	No
40	GOM_NL__2PRFIN20070313_031309_000000462056_00204_26310_0145.N1	13-MAR-2007 03:13:09	Bright	45.500	32	77Eps UMa	1.7630	11000.	91	26310	No
41	GOM_NL__2PRFIN20070313_031820_000000402056_00204_26310_0146.N1	13-MAR-2007 03:18:20	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	26310	No
42	GOM_NL__2PRFIN20070313_032236_000000452056_00204_26310_0147.N1	13-MAR-2007 03:22:36	Bright	45.000	119	14Eta Dra	2.7270	4700.0	90	26310	No







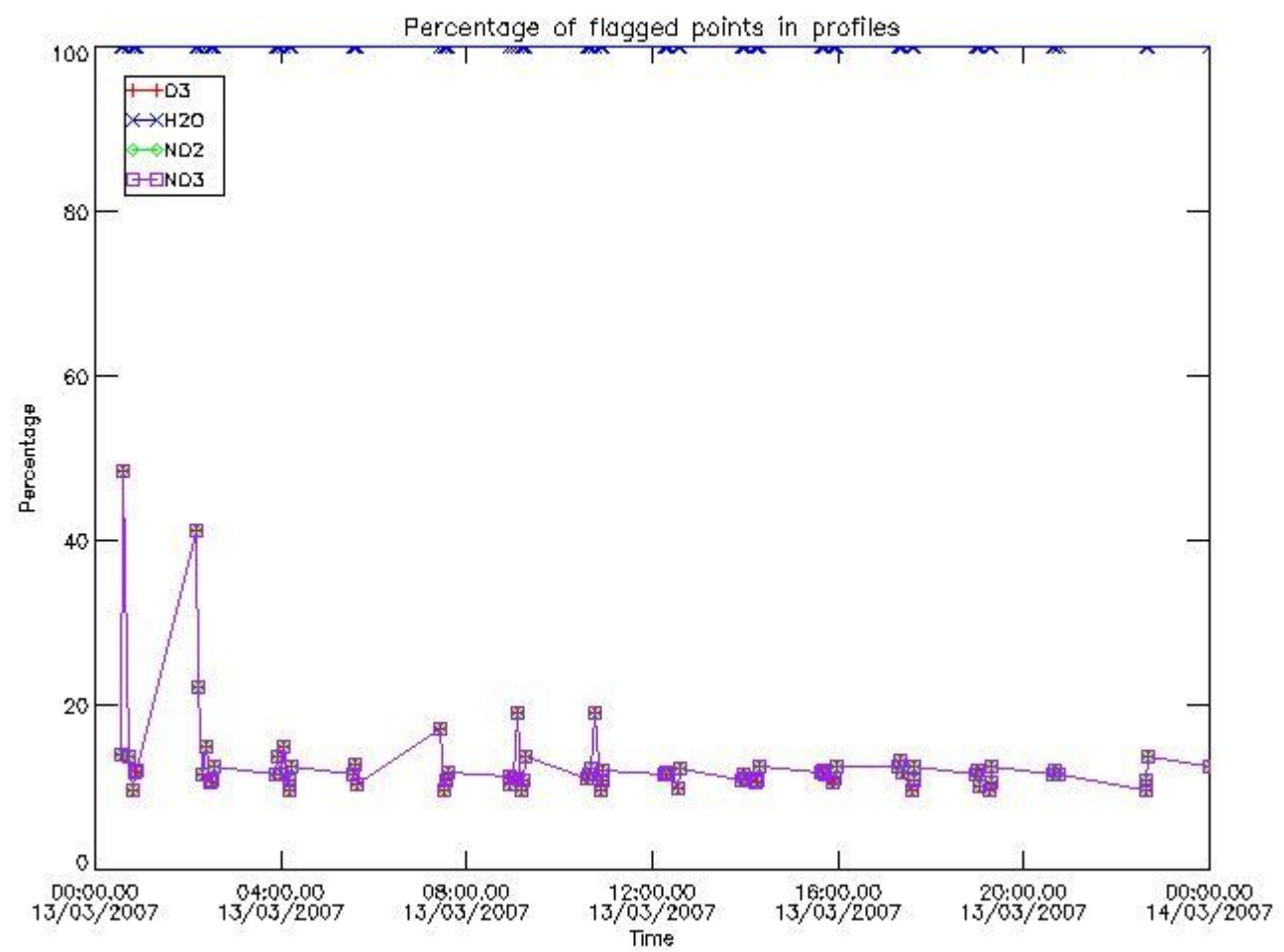
220	GOM_NL__2PRFIN20070313_193023_000000582056_00214_26320_0292.N1	13-MAR-2007 19:30:23	Straylight	57.500	106	9Bet Crv	2.6480	5600.0	115	26320	No
221	GOM_NL__2PRFIN20070313_193248_000000512056_00214_26320_0293.N1	13-MAR-2007 19:32:48	Straylight	50.500	100	4Gam Crv	2.5800	13100.	101	26320	No
222	GOM_NL__2PRFIN20070313_194434_000000392056_00214_26320_0294.N1	13-MAR-2007 19:44:34	Bright	39.000	51	41Gam1Leo	2.0100	4500.0	78	26320	No
223	GOM_NL__2PRFIN20070313_195232_000000392056_00214_26320_0295.N1	13-MAR-2007 19:52:32	Bright	38.500	174	52Psi UMa	3.0040	4400.0	77	26320	No
224	GOM_NL__2PRFIN20070313_195540_000000382056_00214_26320_0296.N1	13-MAR-2007 19:55:40	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	26320	No
225	GOM_NL__2PRFIN20070313_195708_000000382056_00214_26320_0297.N1	13-MAR-2007 19:57:08	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	26320	No
226	GOM_NL__2PRFIN20070313_195901_000000462056_00214_26320_0298.N1	13-MAR-2007 19:59:01	Bright	45.500	32	77Eps UMa	1.7630	11000.	91	26320	No
227	GOM_NL__2PRFIN20070313_200416_000000412056_00214_26320_0299.N1	13-MAR-2007 20:04:16	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	26320	No
228	GOM_NL__2PRFIN20070313_200830_000000482056_00214_26320_0300.N1	13-MAR-2007 20:08:30	Bright	48.000	119	14Eta Dra	2.7270	4700.0	96	26320	No
229	GOM_NL__2PRFIN20070313_201416_000000512056_00214_26320_0301.N1	13-MAR-2007 20:14:16	Bright	51.000	69	33Gam Dra	2.2310	3800.0	102	26320	No
230	GOM_NL__2PRFIN20070313_201724_000000402056_00214_26320_0302.N1	13-MAR-2007 20:17:24	Bright	39.500	144	18Del Cyg	2.8600	11000.	79	26320	No
231	GOM_NL__2PRFIN20070313_201929_000000522056_00214_26320_0303.N1	13-MAR-2007 20:19:29	Bright	52.000	5	3Alp Lyr	0.033000	11000.	104	26320	No
232	GOM_NL__2PRFIN20070313_202838_000000522056_00214_26320_0304.N1	13-MAR-2007 20:28:38	Tw_i_and_stray	51.500	11	53Alp Aql	0.76500	8000.0	103	26320	No
233	GOM_NL__2PRFIN20070313_203834_000000452056_00214_26320_0305.N1	13-MAR-2007 20:38:34	Dark	44.500	155	41Pi Sgr	2.9000	6600.0	89	26320	No
234	GOM_NL__2PRFIN20070313_204107_000000432056_00214_26320_0306.N1	13-MAR-2007 20:41:07	Dark	42.500	103	38Zet Sgr	2.6000	9700.0	85	26320	No
235	GOM_NL__2PRFIN20070313_204359_000000452056_00214_26320_0307.N1	13-MAR-2007 20:43:59	Dark	44.500	38	20Eps Sgr	1.8360	11000.	89	26320	No
236	GOM_NL__2PRFIN20070313_223647_000000532056_00216_26322_0318.N1	13-MAR-2007 22:36:47	Dark	52.500	131	Gam Lup	2.8000	26000.	105	26322	No
237	GOM_NL__2PRFIN20070313_223902_000000482056_00216_26322_0319.N1	13-MAR-2007 22:39:02	Dark	47.500	78	Alp Lup	2.3040	28000.	95	26322	No
238	GOM_NL__2PRFIN20070313_224032_000000412056_00216_26322_0320.N1	13-MAR-2007 22:40:32	Dark	40.500	77	Eps Cen	2.3030	28000.	81	26322	No
239	GOM_NL__2PRFIN20070313_224328_000000442056_00216_26322_0321.N1	13-MAR-2007 22:43:28	Straylight	43.500	64	Gam Cen	2.2000	10600.	87	26322	No
240	GOM_NL__2PRFIN20070313_224535_000000512056_00216_26322_0322.N1	13-MAR-2007 22:45:35	Straylight	51.000	123	lot Cen	2.7500	10200.	102	26322	No
241	GOM_NL__2PRFIN20070313_225135_000000562056_00216_26322_0323.N1	13-MAR-2007 22:51:35	Straylight	55.500	106	9Bet Crv	2.6480	5600.0	111	26322	No
242	GOM_NL__2PRFIN20070313_225400_000000542056_00216_26322_0324.N1	13-MAR-2007 22:54:00	Straylight	54.000	100	4Gam Crv	2.5800	13100.	108	26322	No
243	GOM_NL__2PRFIN20070313_230638_000000402056_00216_26322_0325.N1	13-MAR-2007 23:06:38	Bright	39.500	96	68Del Leo	2.5600	9300.0	79	26322	No
244	GOM_NL__2PRFIN20070313_231343_000000412056_00216_26322_0326.N1	13-MAR-2007 23:13:43	Bright	40.500	174	52Psi UMa	3.0040	4400.0	81	26322	No
245	GOM_NL__2PRFIN20070313_231651_000000572056_00216_26322_0327.N1	13-MAR-2007 23:16:51	Bright	57.000	82	48Bet UMa	2.3650	10600.	114	26322	No
246	GOM_NL__2PRFIN20070313_231819_000000392056_00216_26322_0328.N1	13-MAR-2007 23:18:19	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	26322	No
247	GOM_NL__2PRFIN20070313_232011_000000462056_00216_26322_0329.N1	13-MAR-2007 23:20:11	Bright	45.500	32	77Eps UMa	1.7630	11000.	91	26322	No
248	GOM_NL__2PRFIN20070313_232527_000000372056_00216_26322_0330.N1	13-MAR-2007 23:25:27	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	26322	No
249	GOM_NL__2PRFIN20070313_232941_000000472056_00216_26322_0331.N1	13-MAR-2007 23:29:41	Bright	46.500	119	14Eta Dra	2.7270	4700.0	93	26322	No
250	GOM_NL__2PRFIN20070313_233527_000000502056_00216_26322_0332.N1	13-MAR-2007 23:35:27	Bright	49.500	69	33Gam Dra	2.2310	3800.0	99	26322	No
251	GOM_NL__2PRFIN20070313_233835_000000382056_00216_26322_0333.N1	13-MAR-2007 23:38:35	Bright	38.000	144	18Del Cyg	2.8600	11000.	76	26322	No
252	GOM_NL__2PRFIN20070313_234041_000000532056_00216_26322_0334.N1	13-MAR-2007 23:40:41	Bright	52.500	5	3Alp Lyr	0.033000	11000.	105	26322	No
253	GOM_NL__2PRFIN20070313_234950_000000512056_00216_26322_0335.N1	13-MAR-2007 23:49:50	Tw_i_and_stray	51.000	11	53Alp Aql	0.76500	8000.0	102	26322	No
254	GOM_NL__2PRFIN20070313_235948_000000452056_00216_26322_0336.N1	13-MAR-2007 23:59:48	Dark	44.500	155	41Pi Sgr	2.9000	6600.0	89	26322	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.

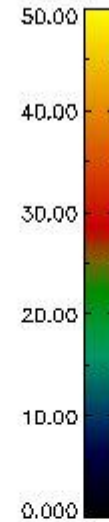
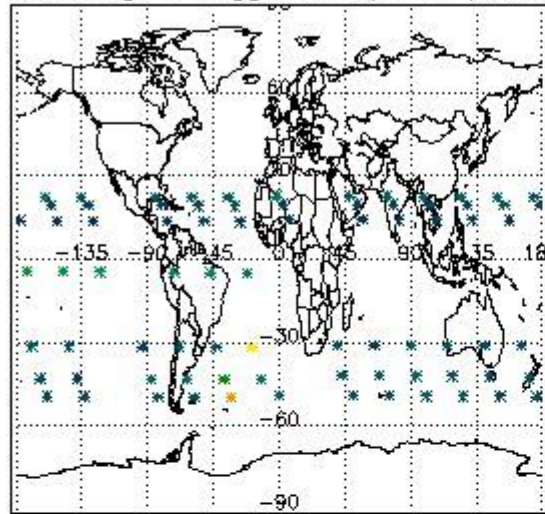
#### 3.1 Plot quality information per product (time dependant)



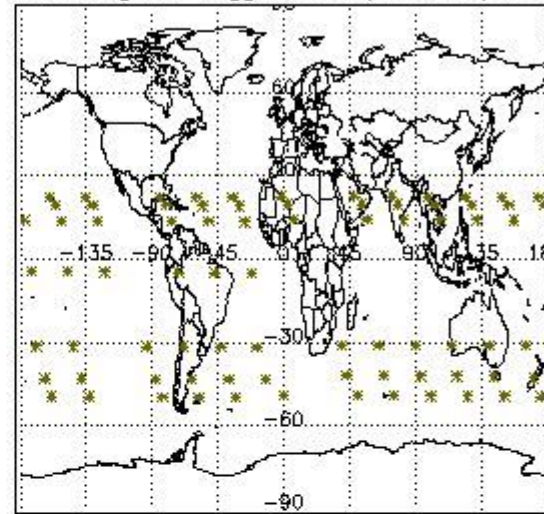


3.2 Plot quality information per product (world map)

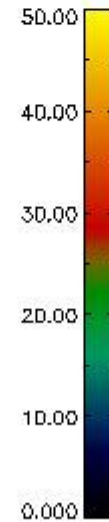
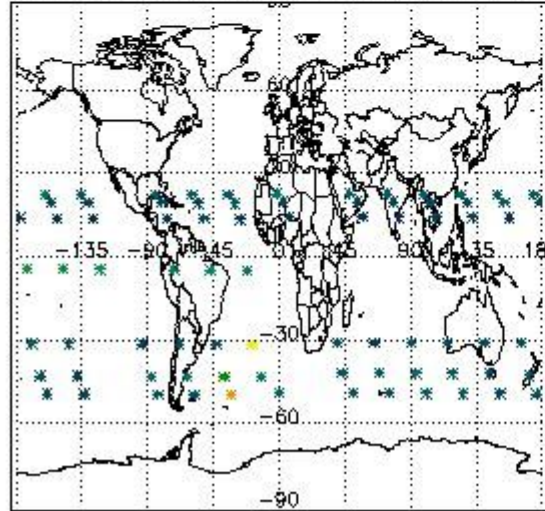
Percentage of flagged data per O3 profile



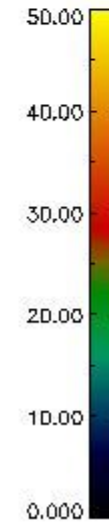
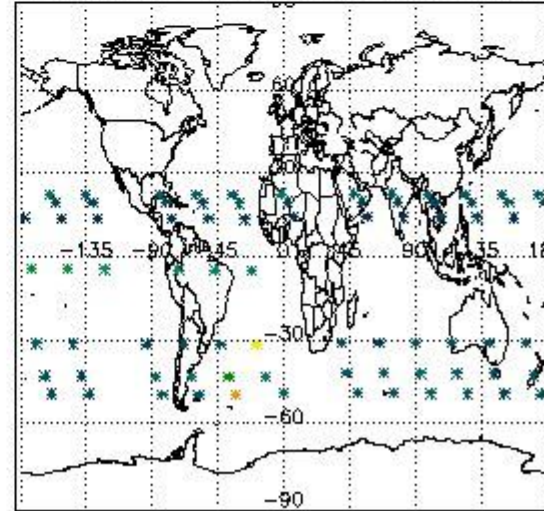
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

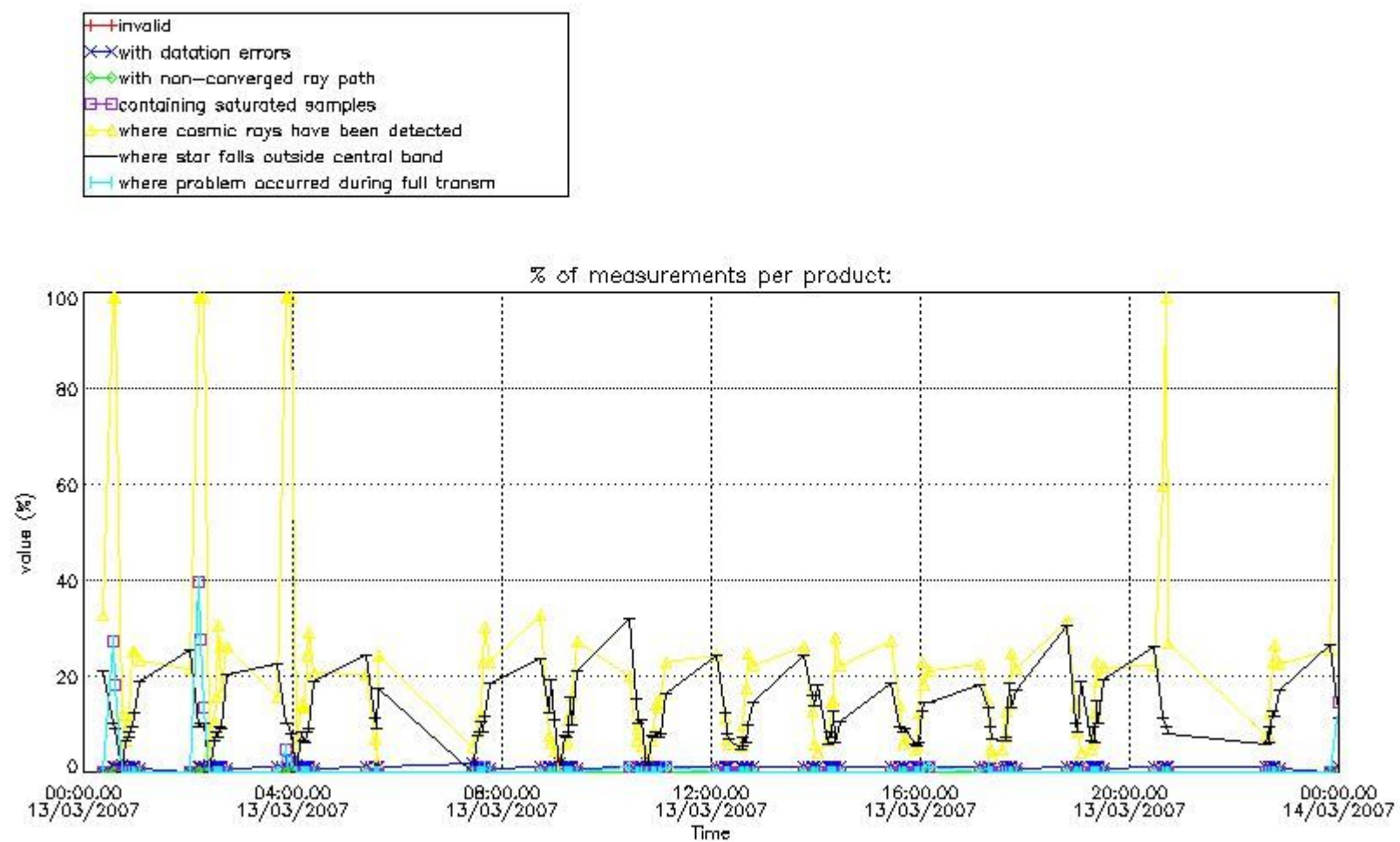


#### 4. Level 1 quality information per product

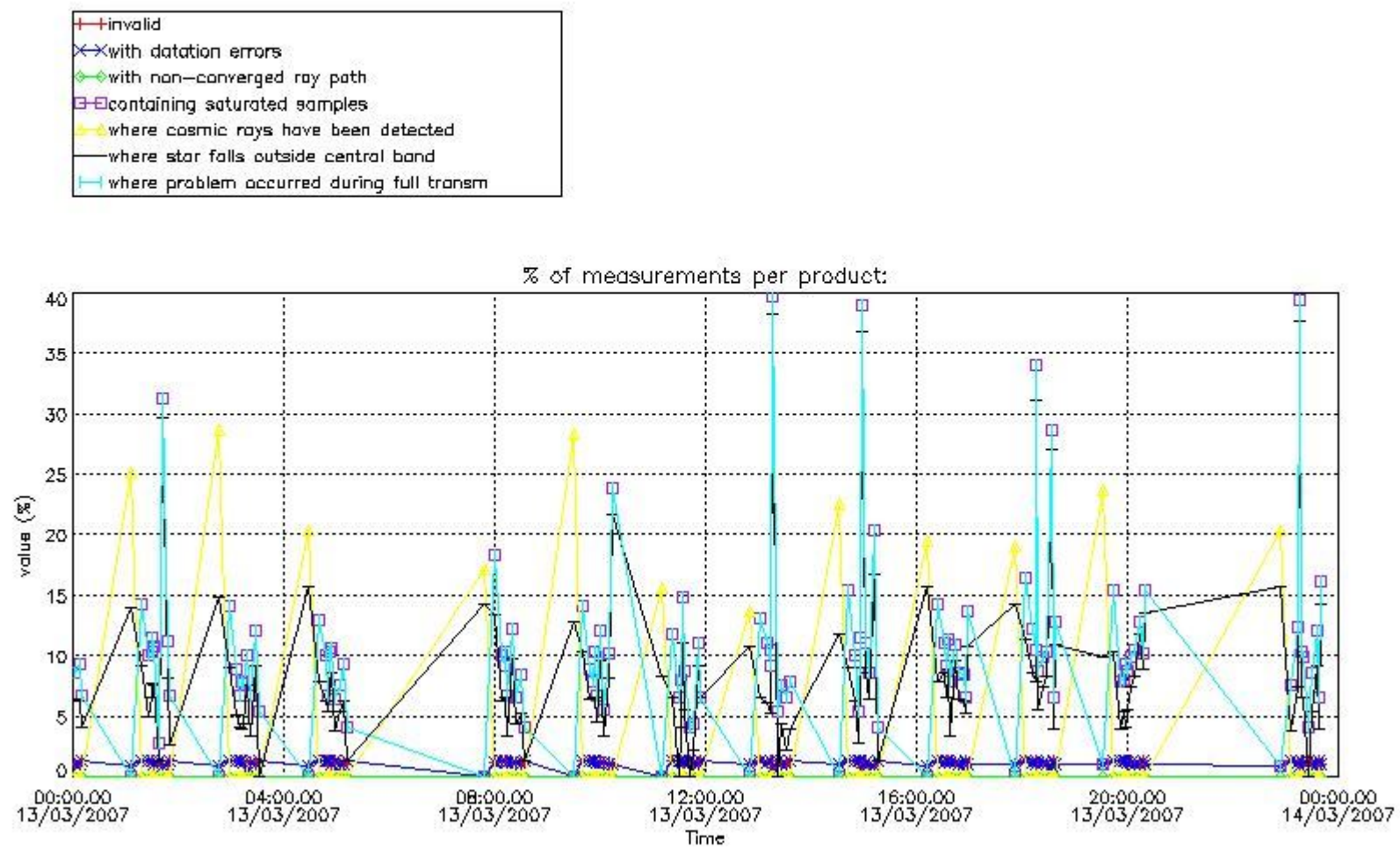
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

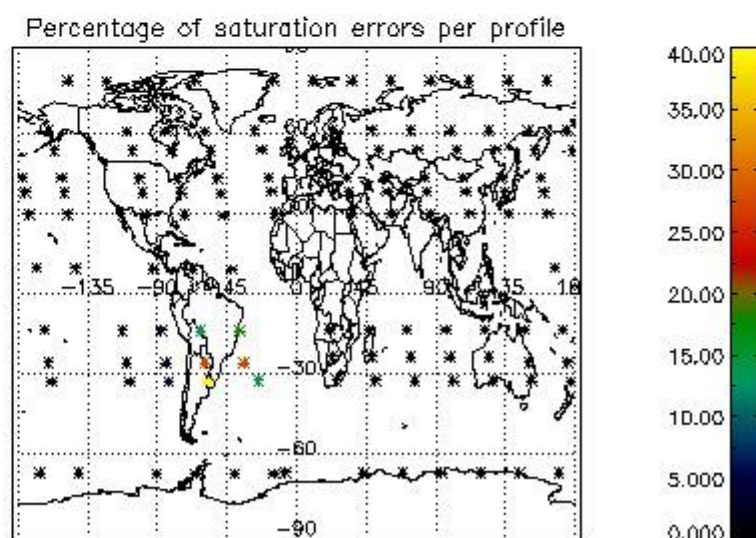
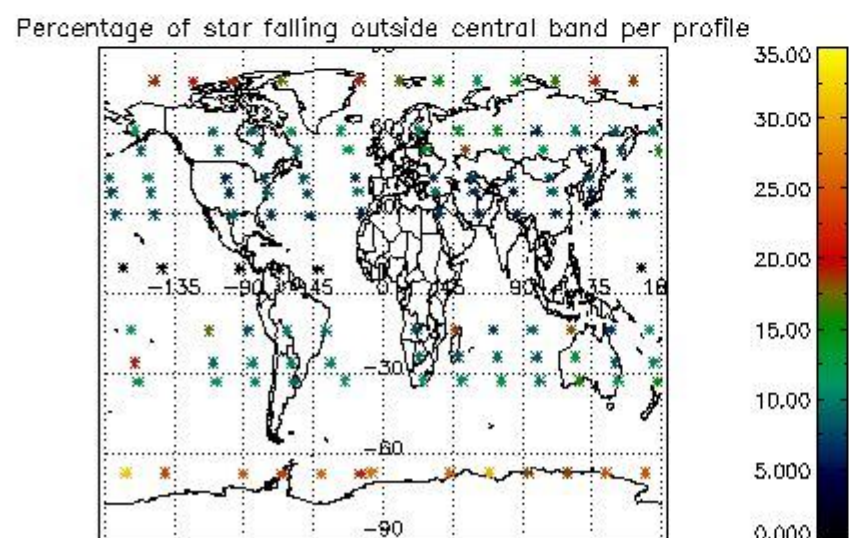
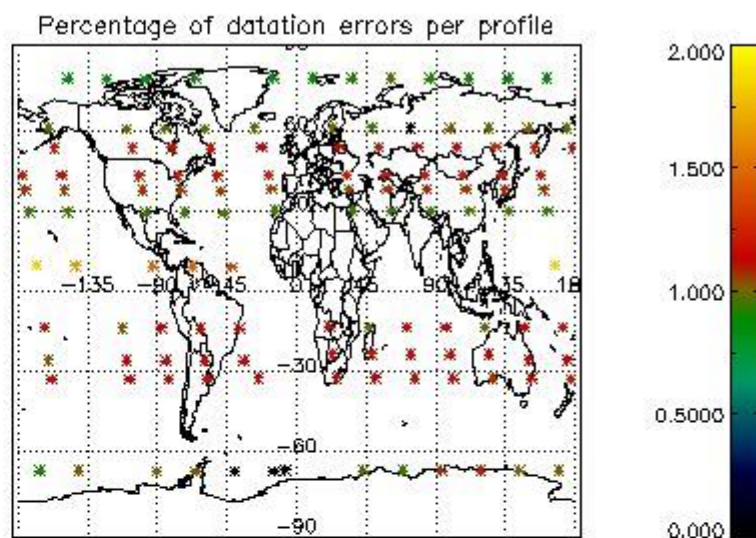
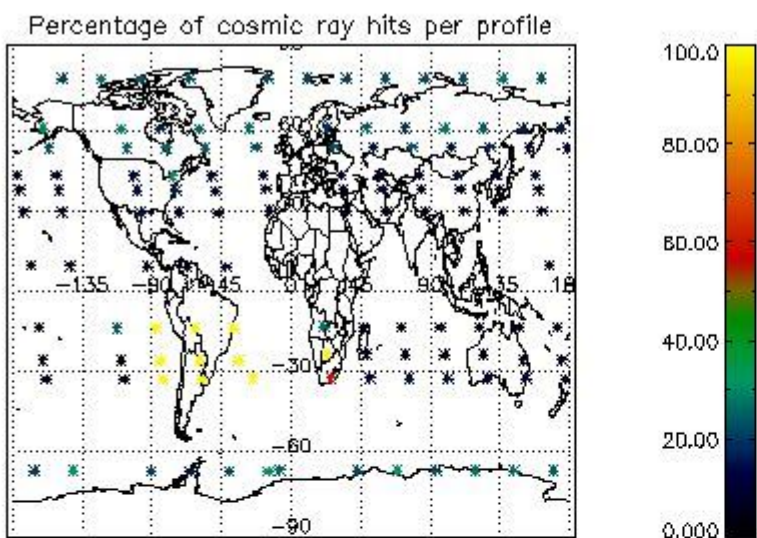


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

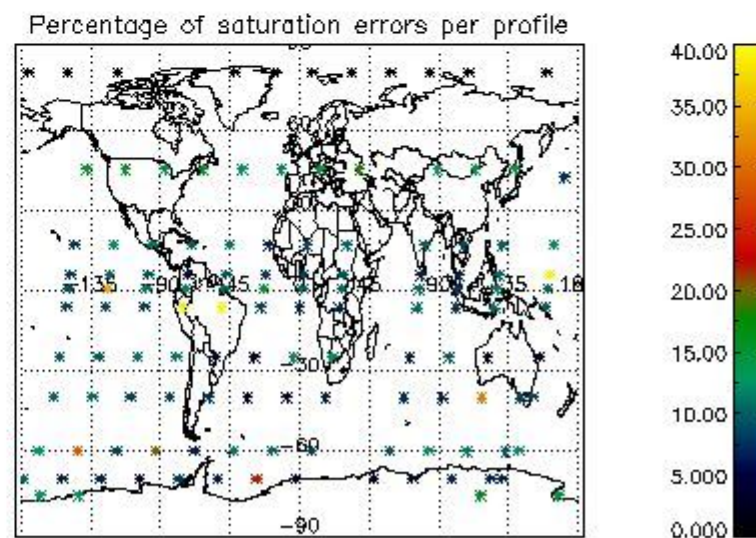
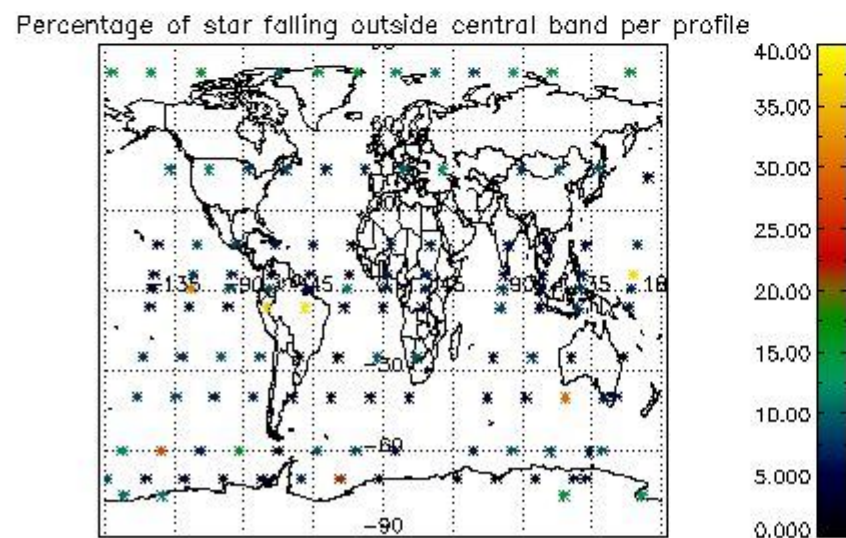
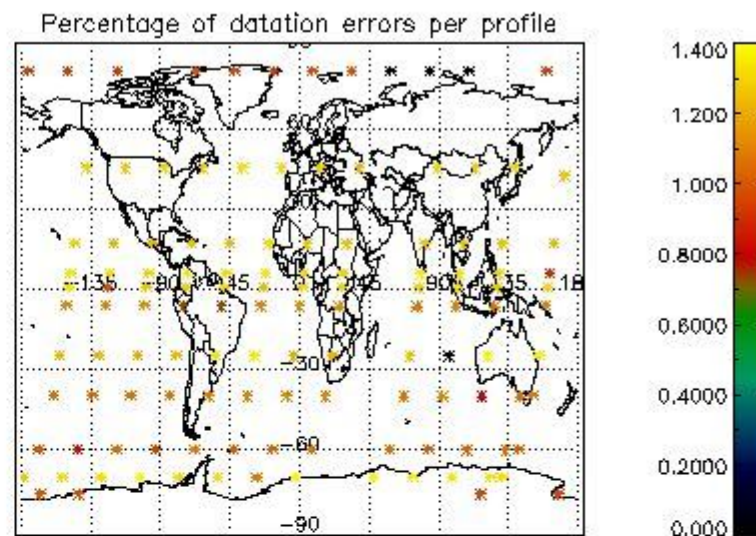
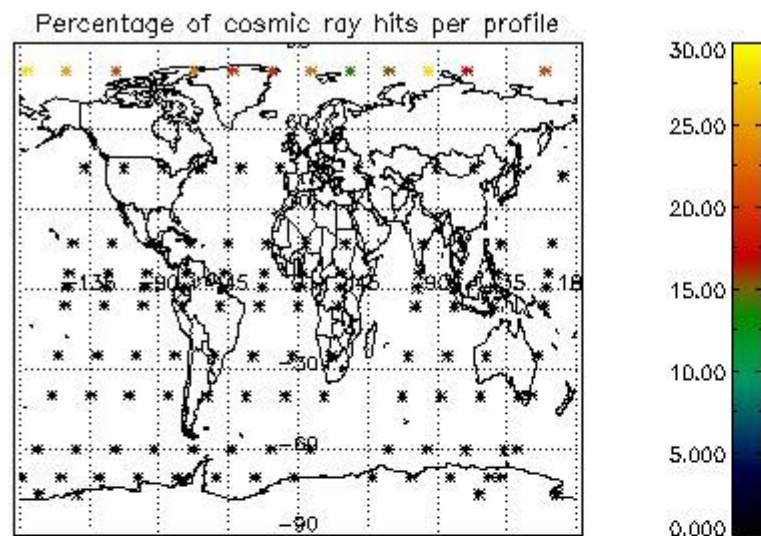


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

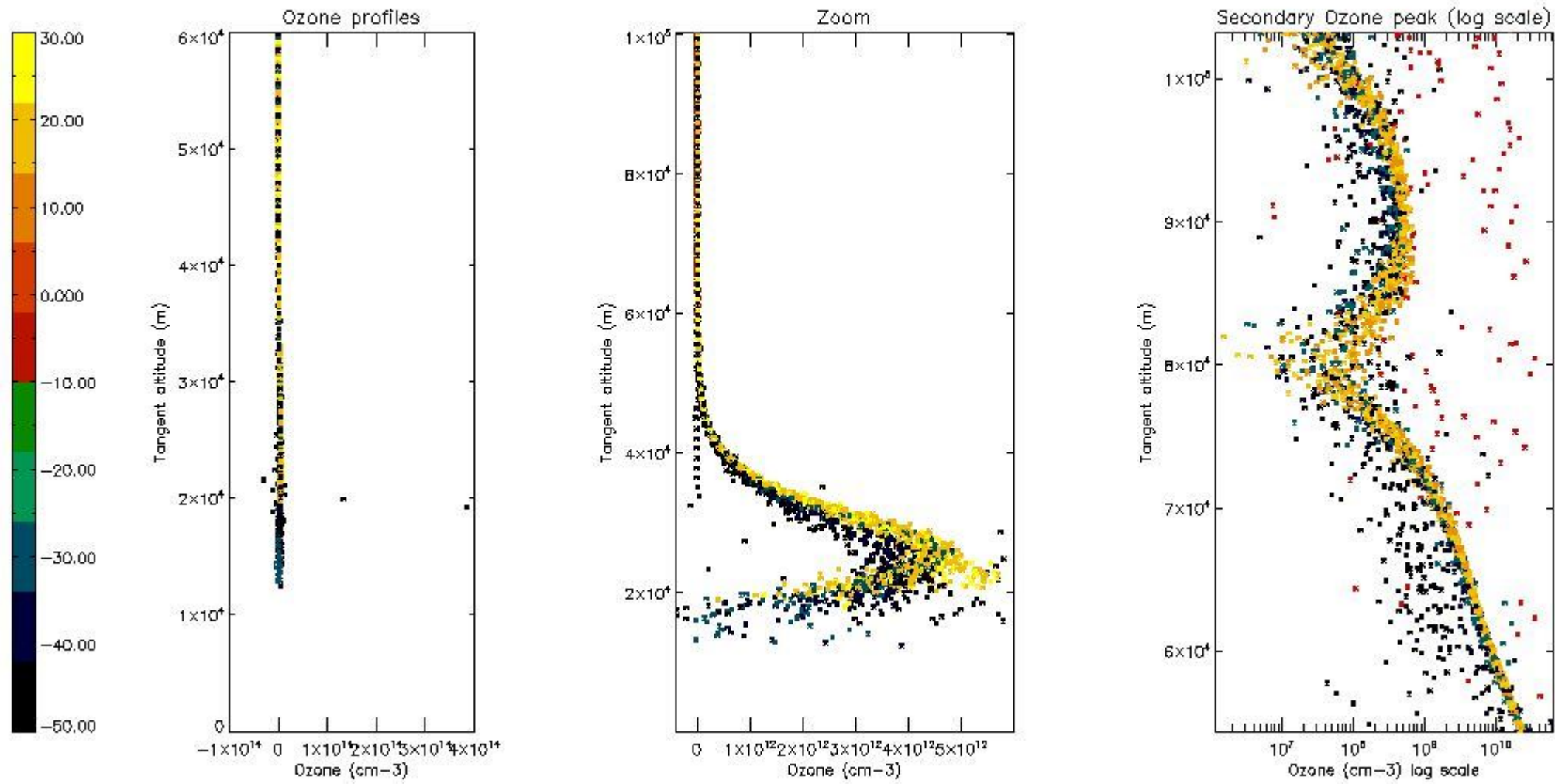
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	31
STD < 20	18

STD < 10	15
STD < 5	11

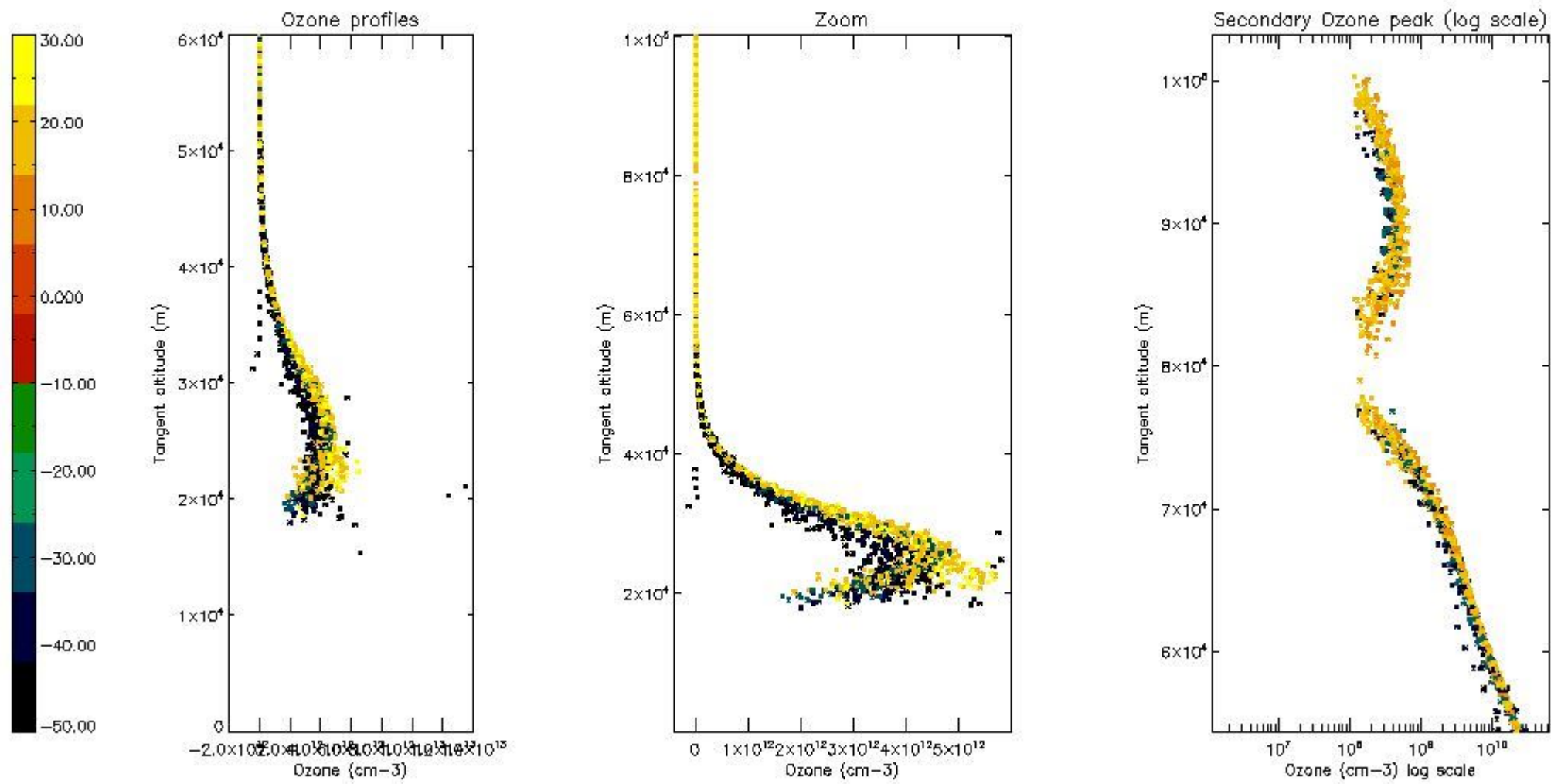
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

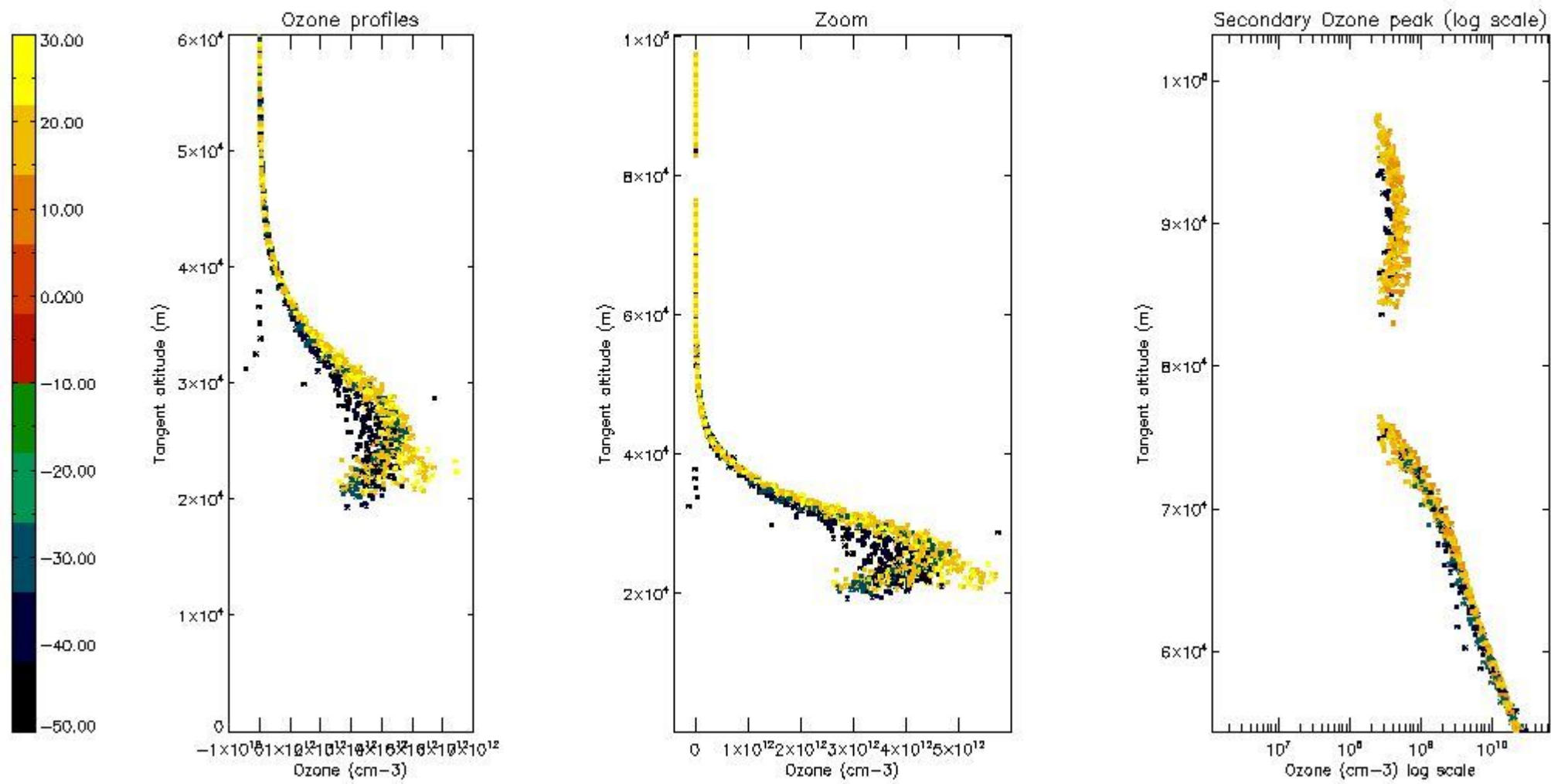
The colorbar represents the latitude.



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

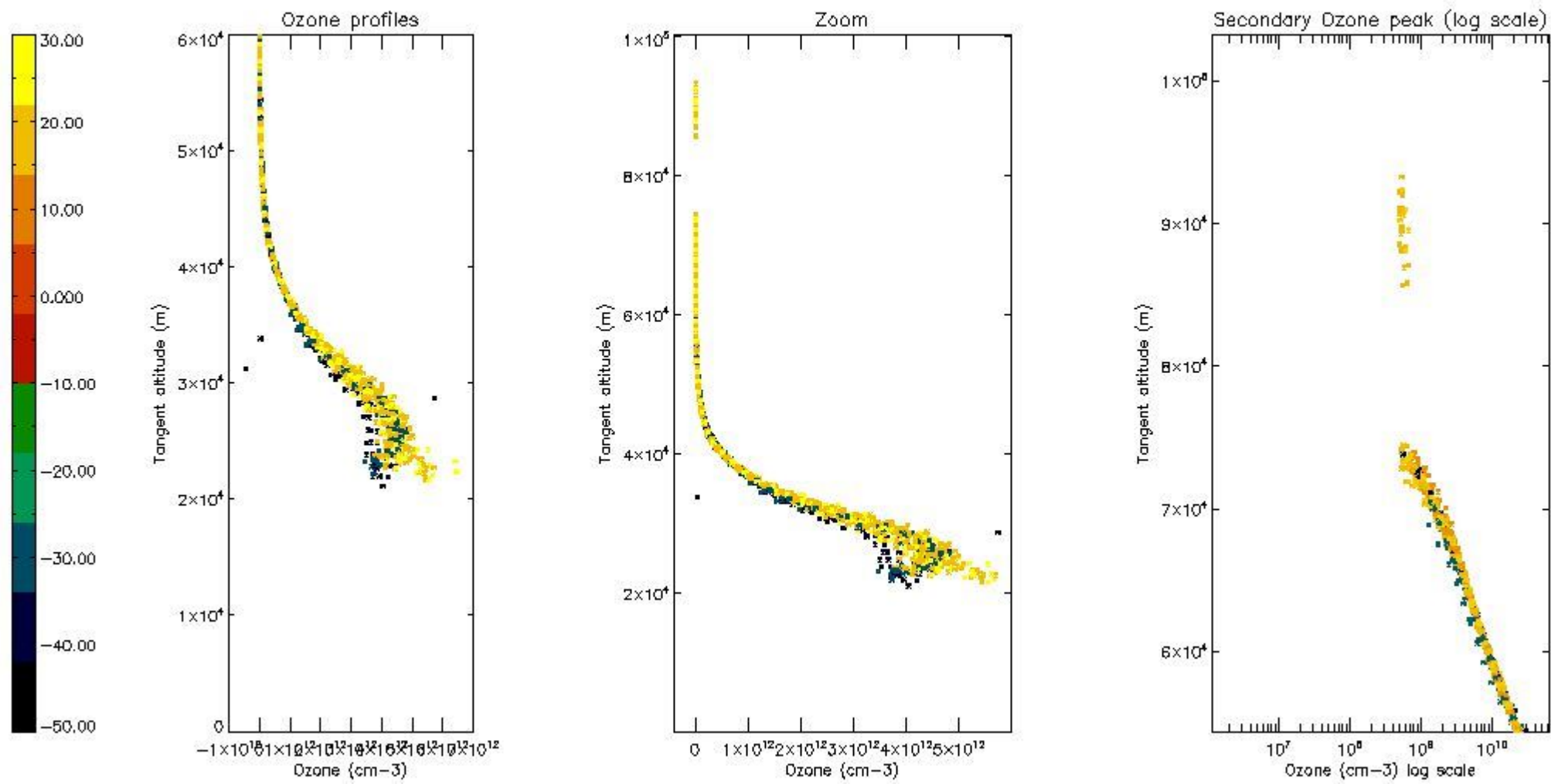
The colorbar represents the latitude.





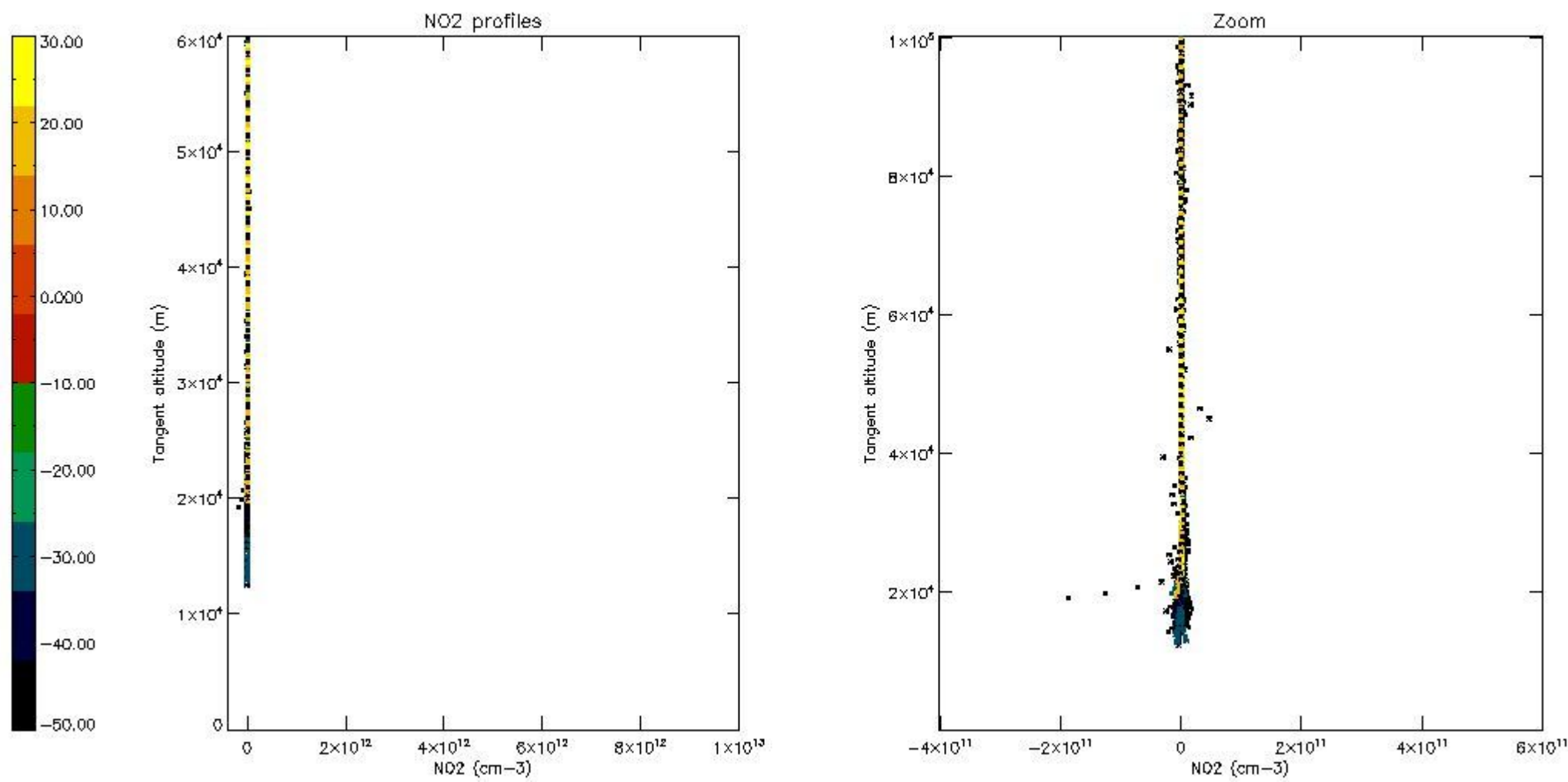
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



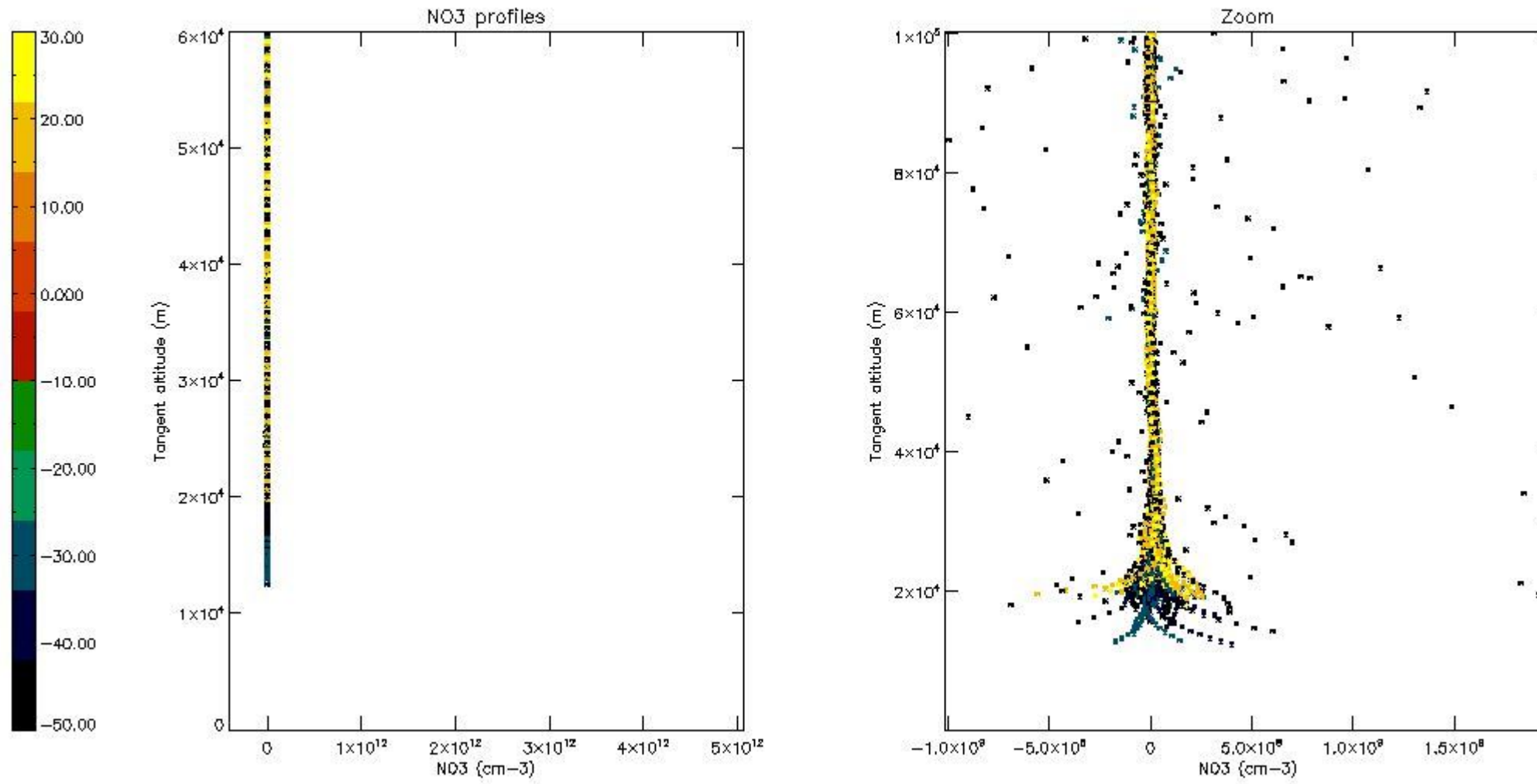
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

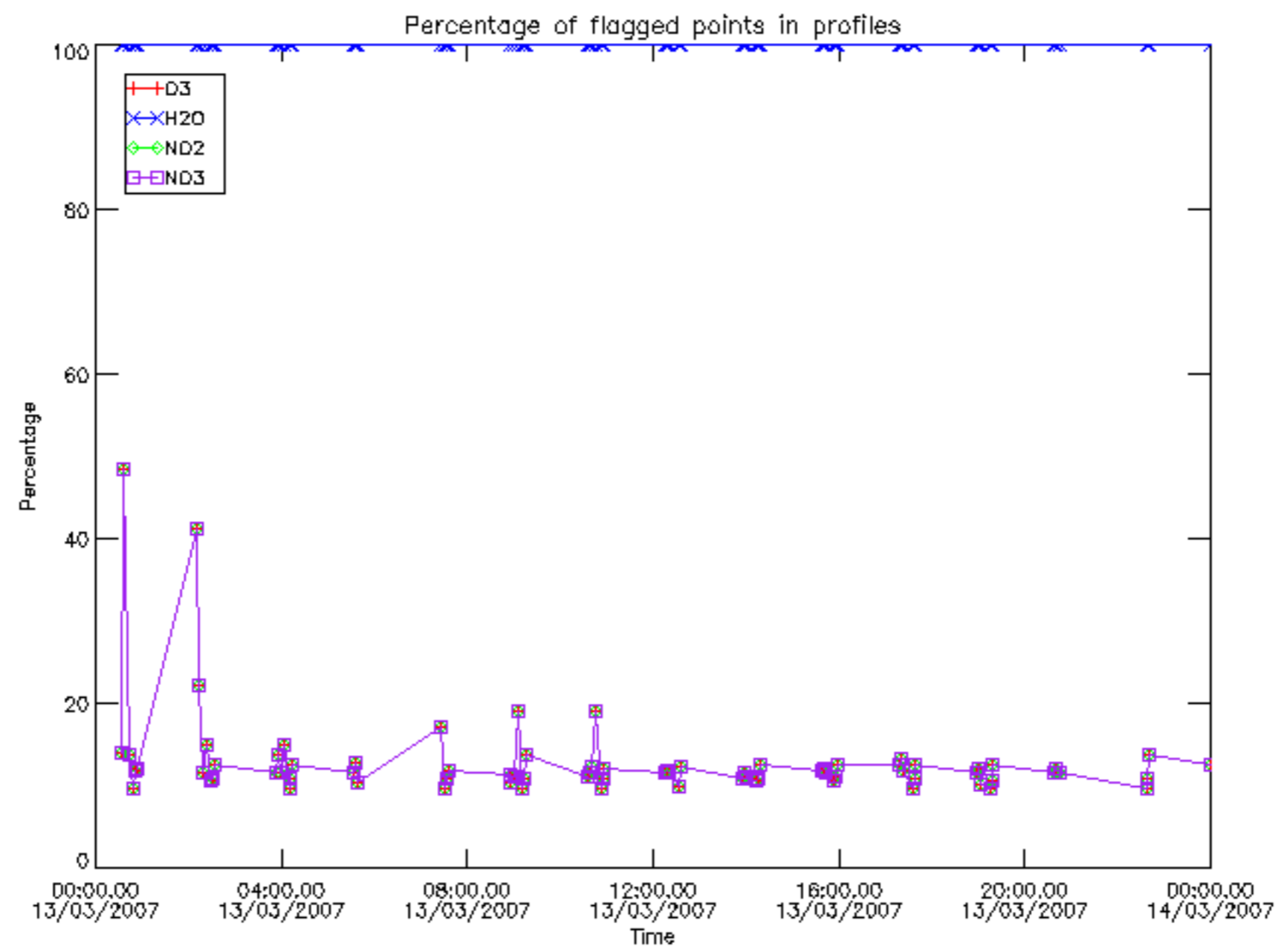
The colorbar represents the latitude.



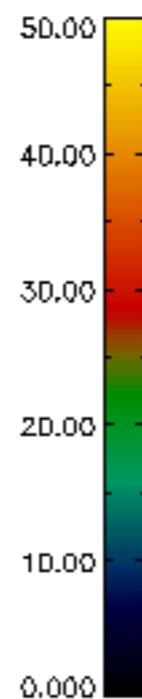
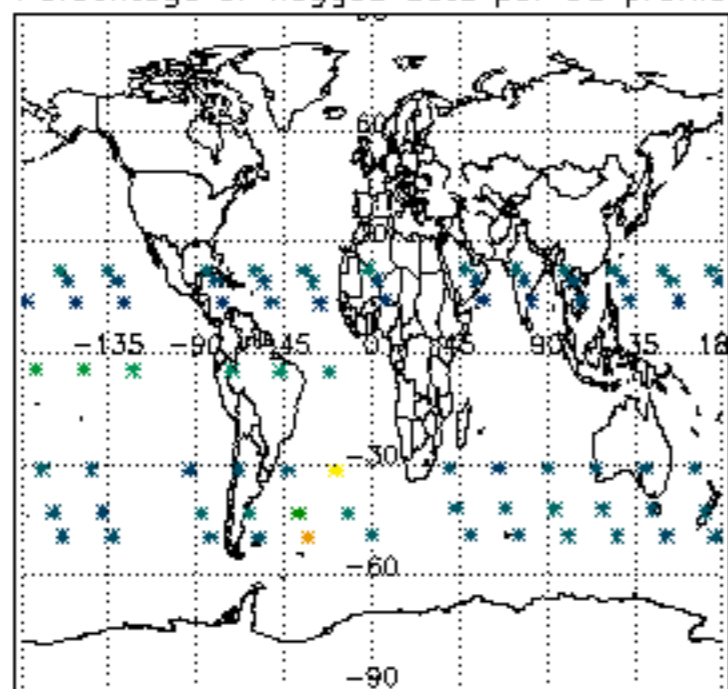
## 6. Auxiliary Data Files used for the production reported in section 2

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.

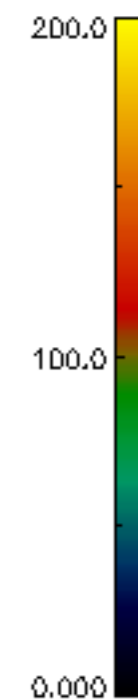
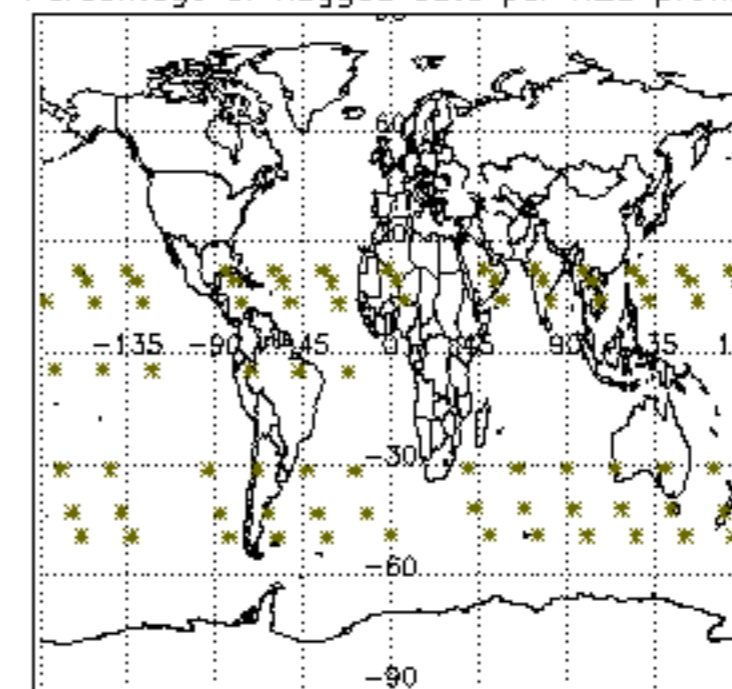
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	13-MAR-2007 00:01:26
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	13-MAR-2007 00:01:26
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	13-MAR-2007 00:01:26



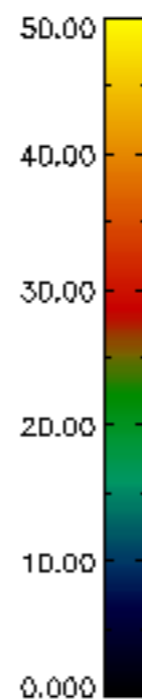
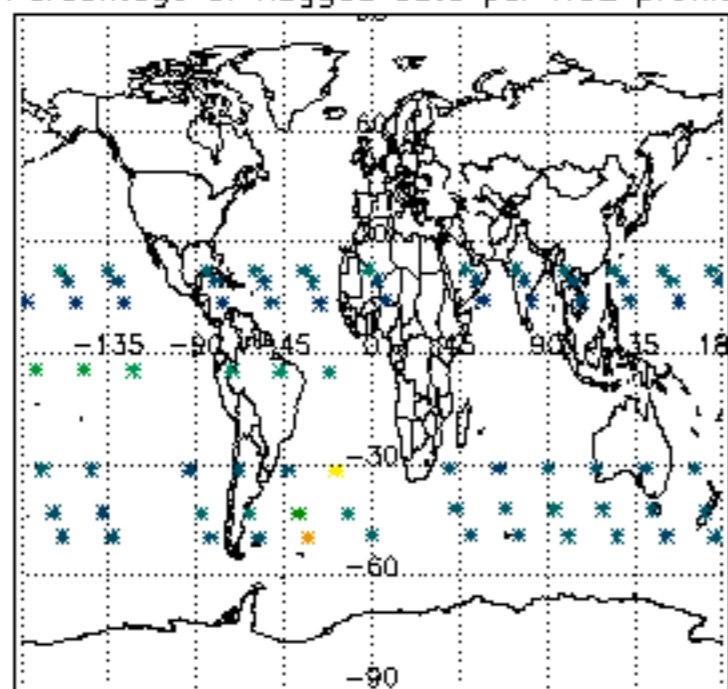
Percentage of flagged data per D3 profile



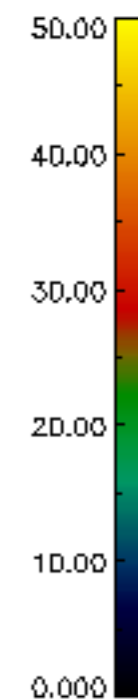
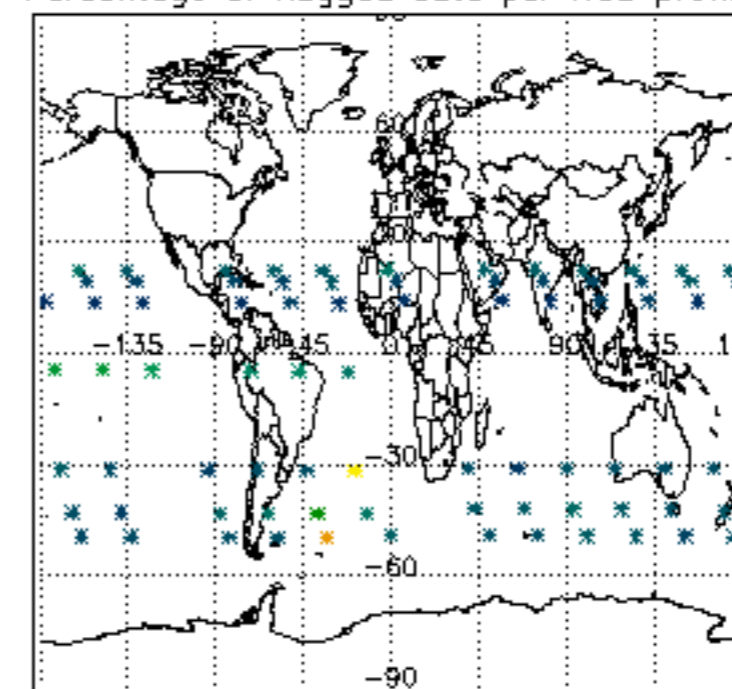
Percentage of flagged data per H2O profile

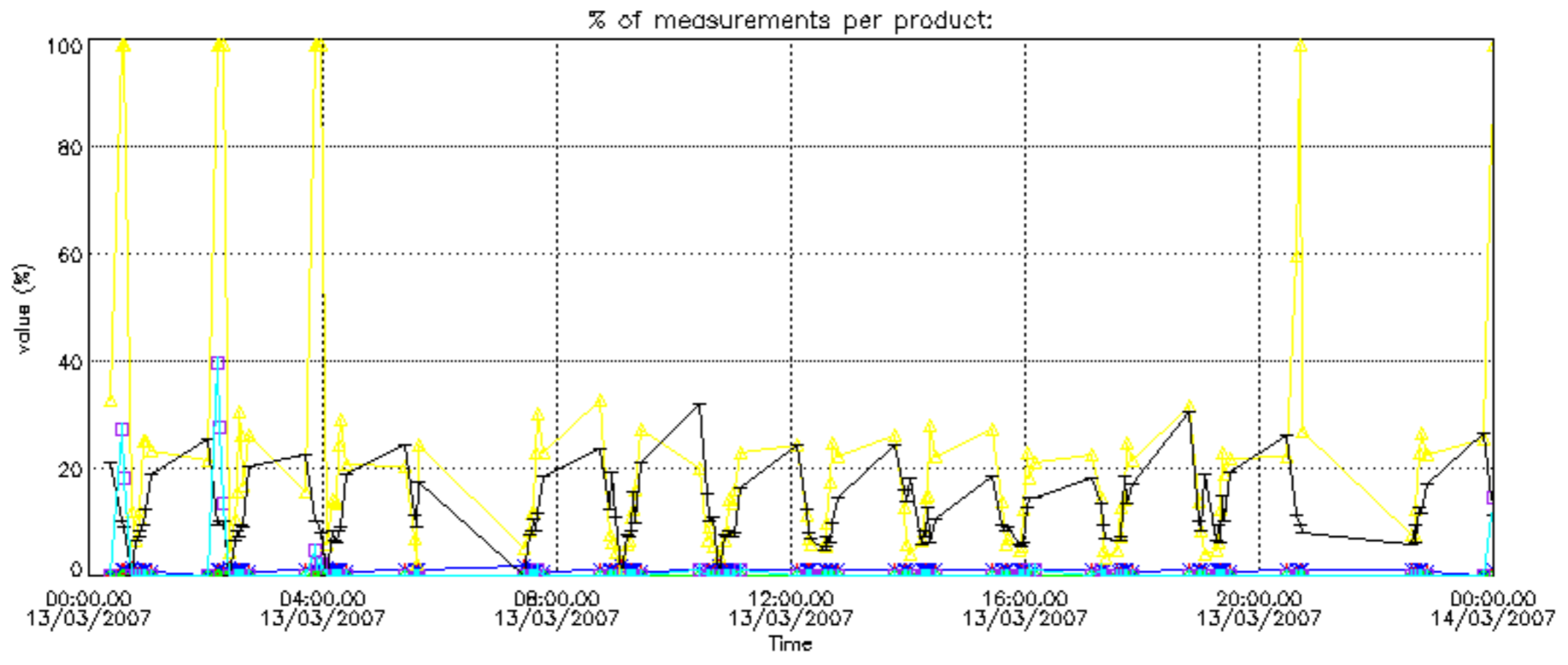


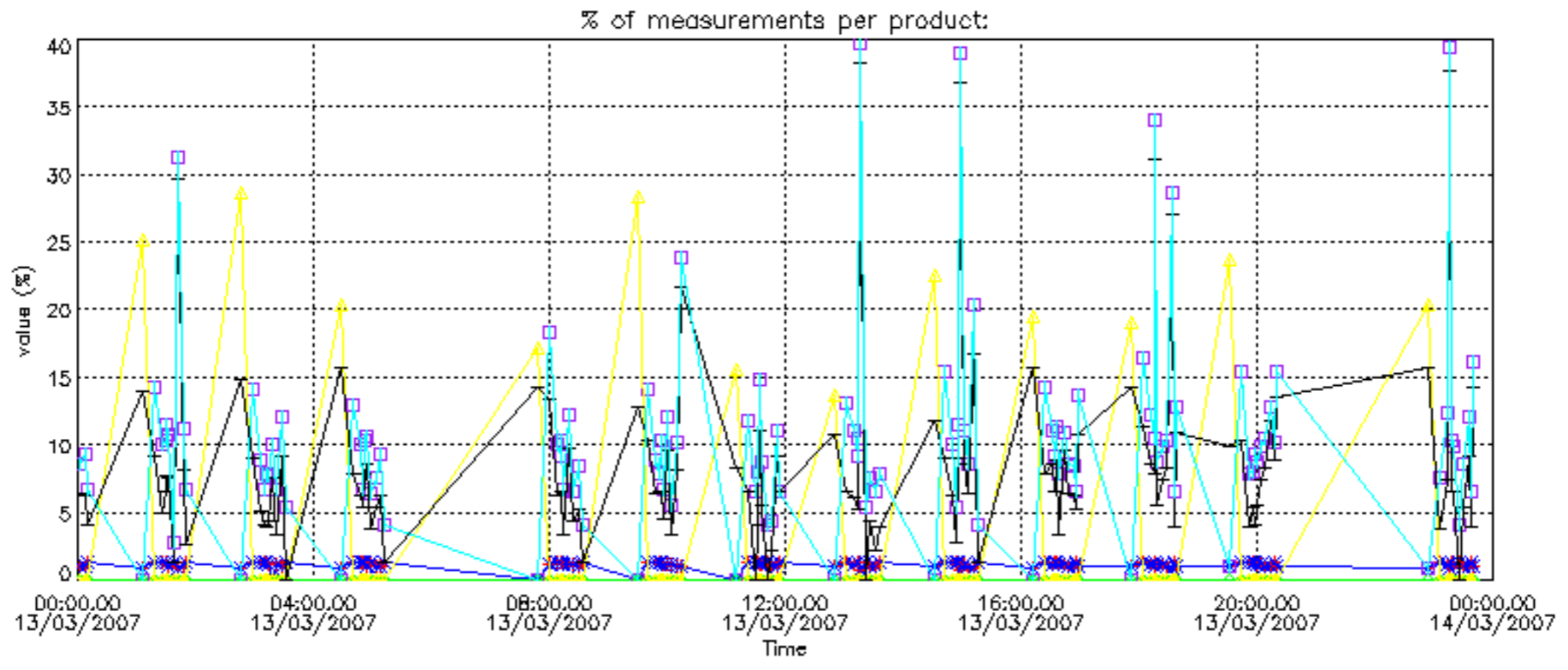
Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

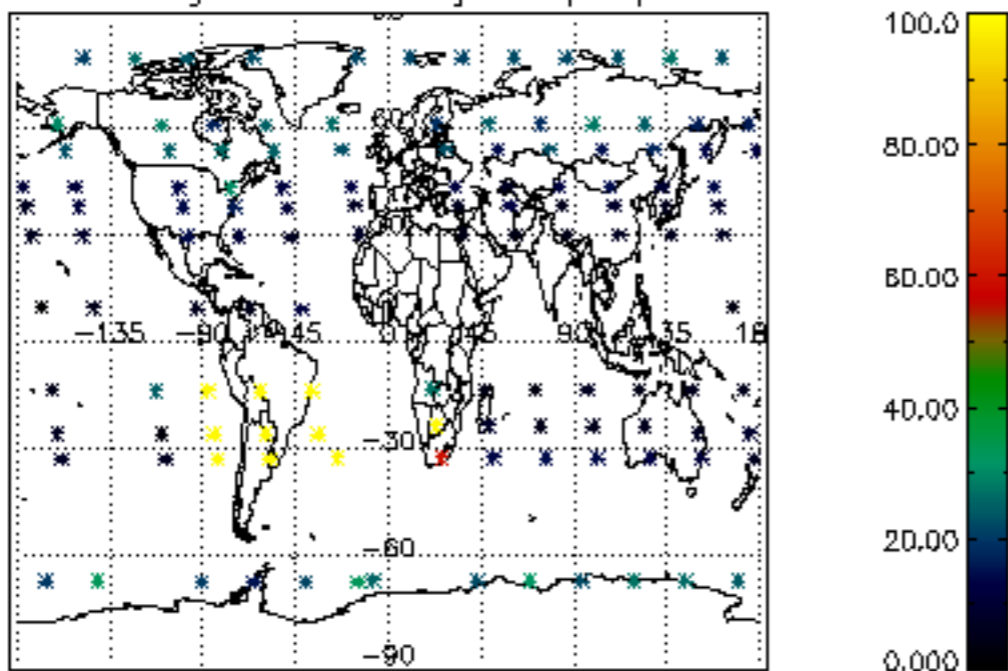




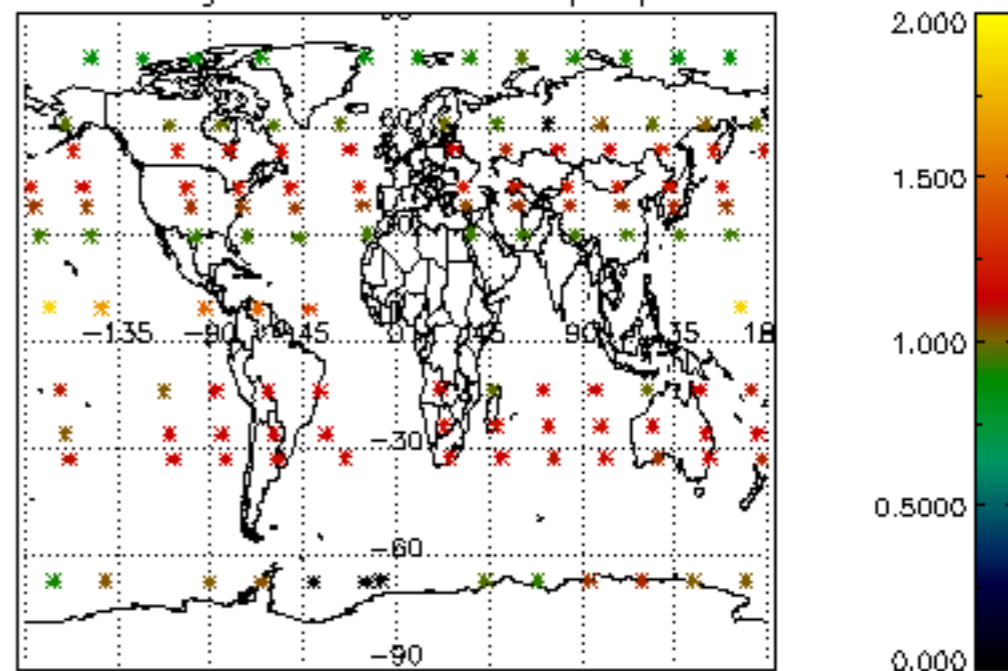




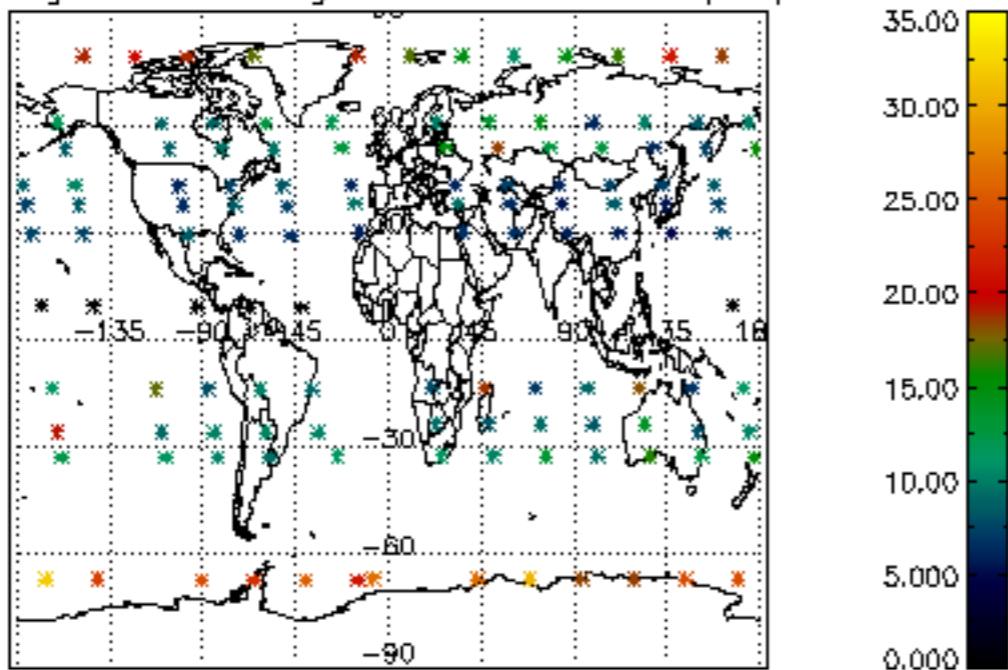
Percentage of cosmic ray hits per profile



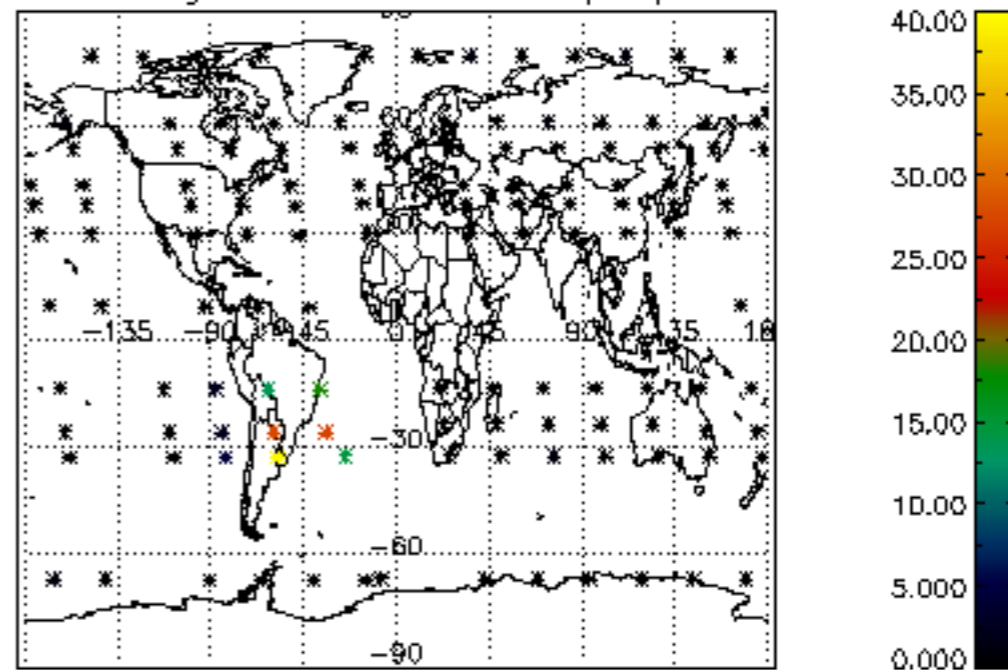
Percentage of datation errors per profile



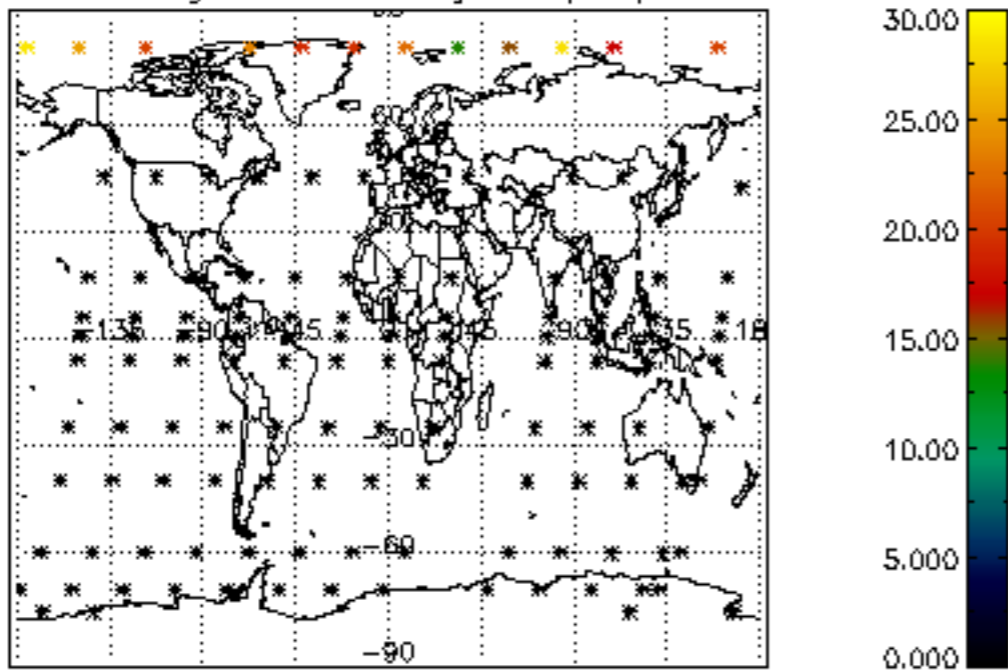
Percentage of star falling outside central band per profile



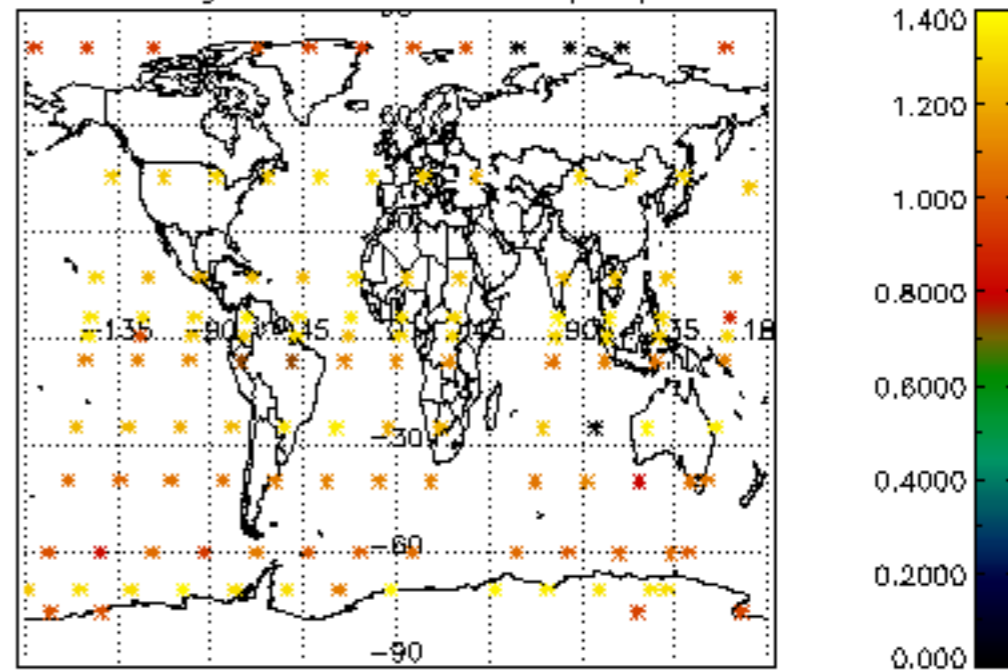
Percentage of saturation errors per profile



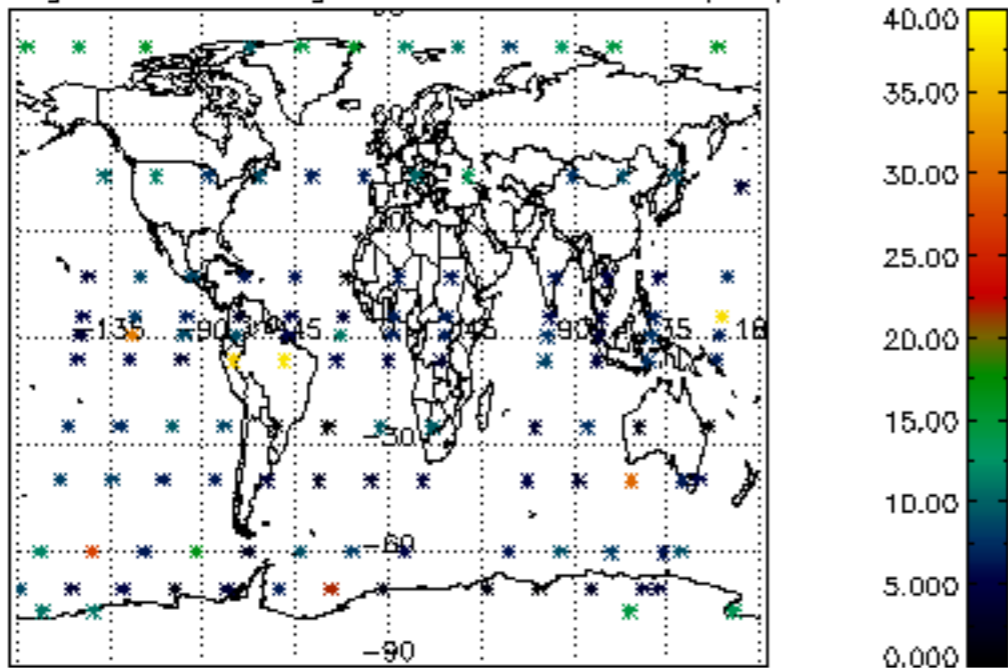
Percentage of cosmic ray hits per profile



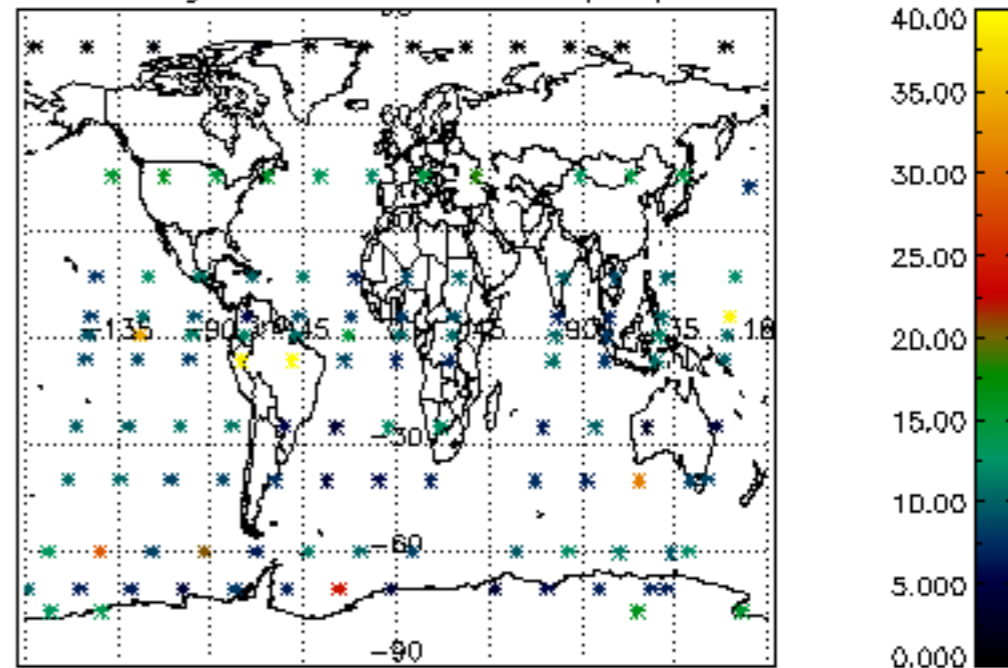
Percentage of datation errors per profile

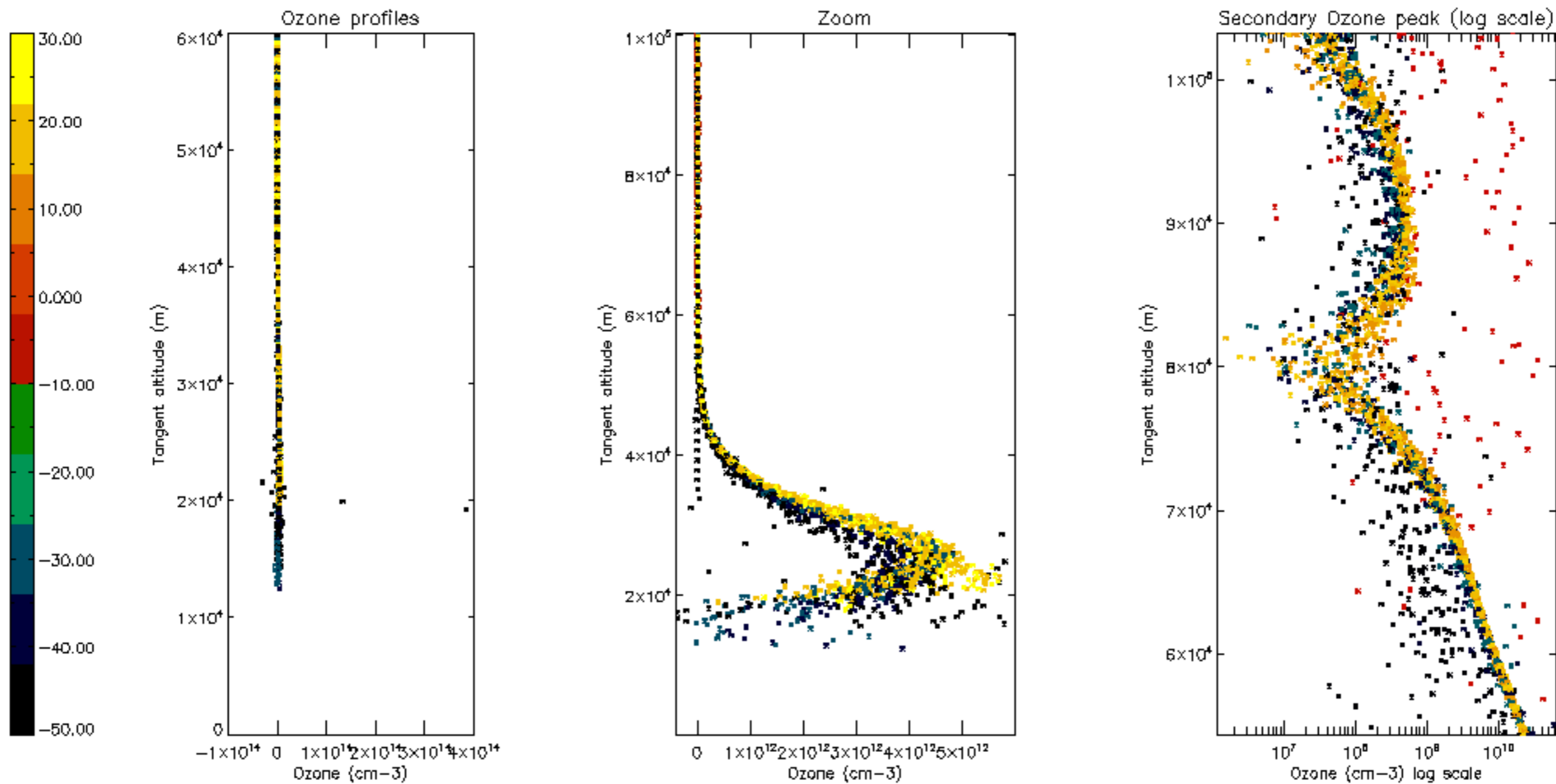


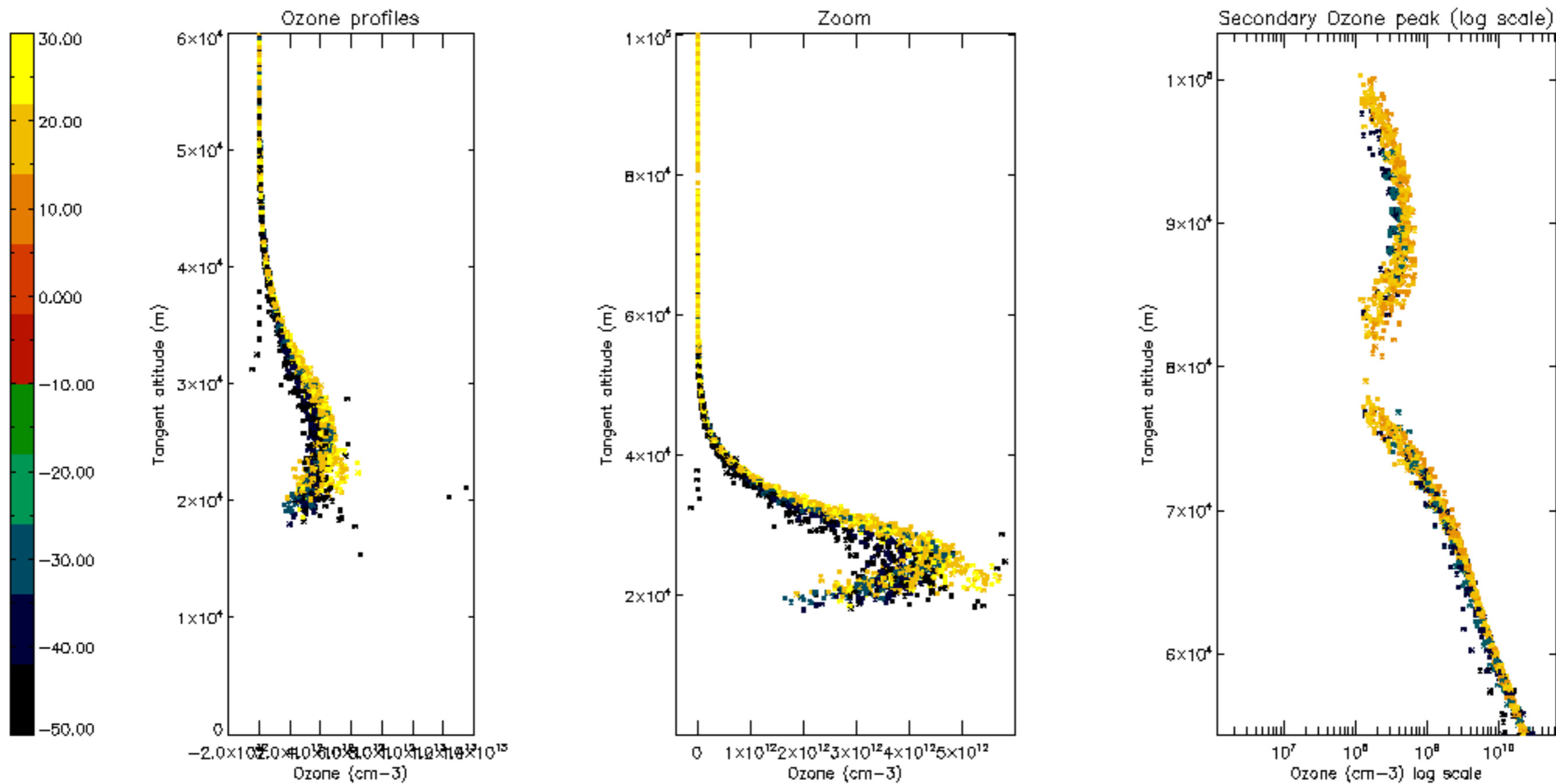
Percentage of star falling outside central band per profile

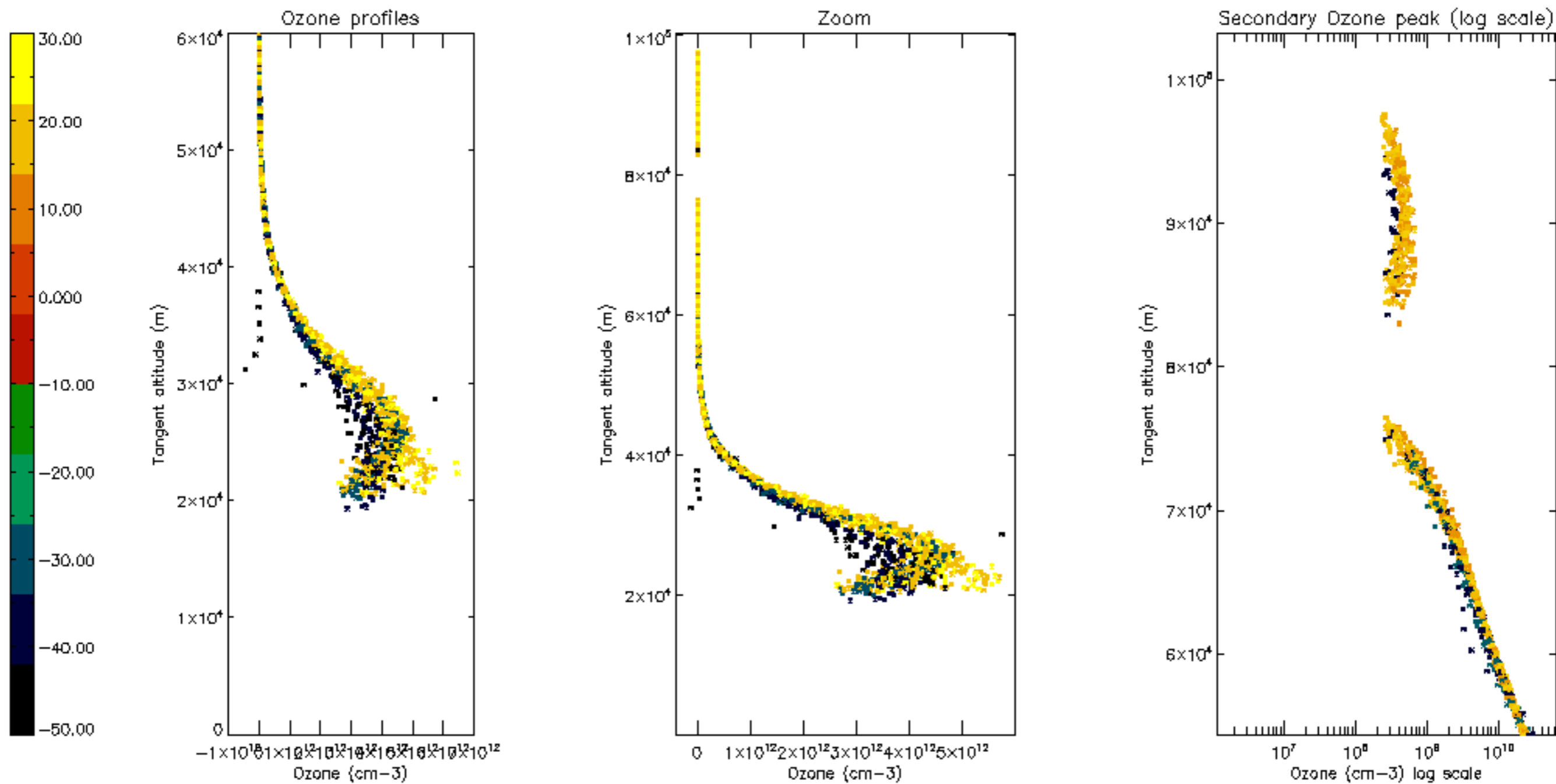


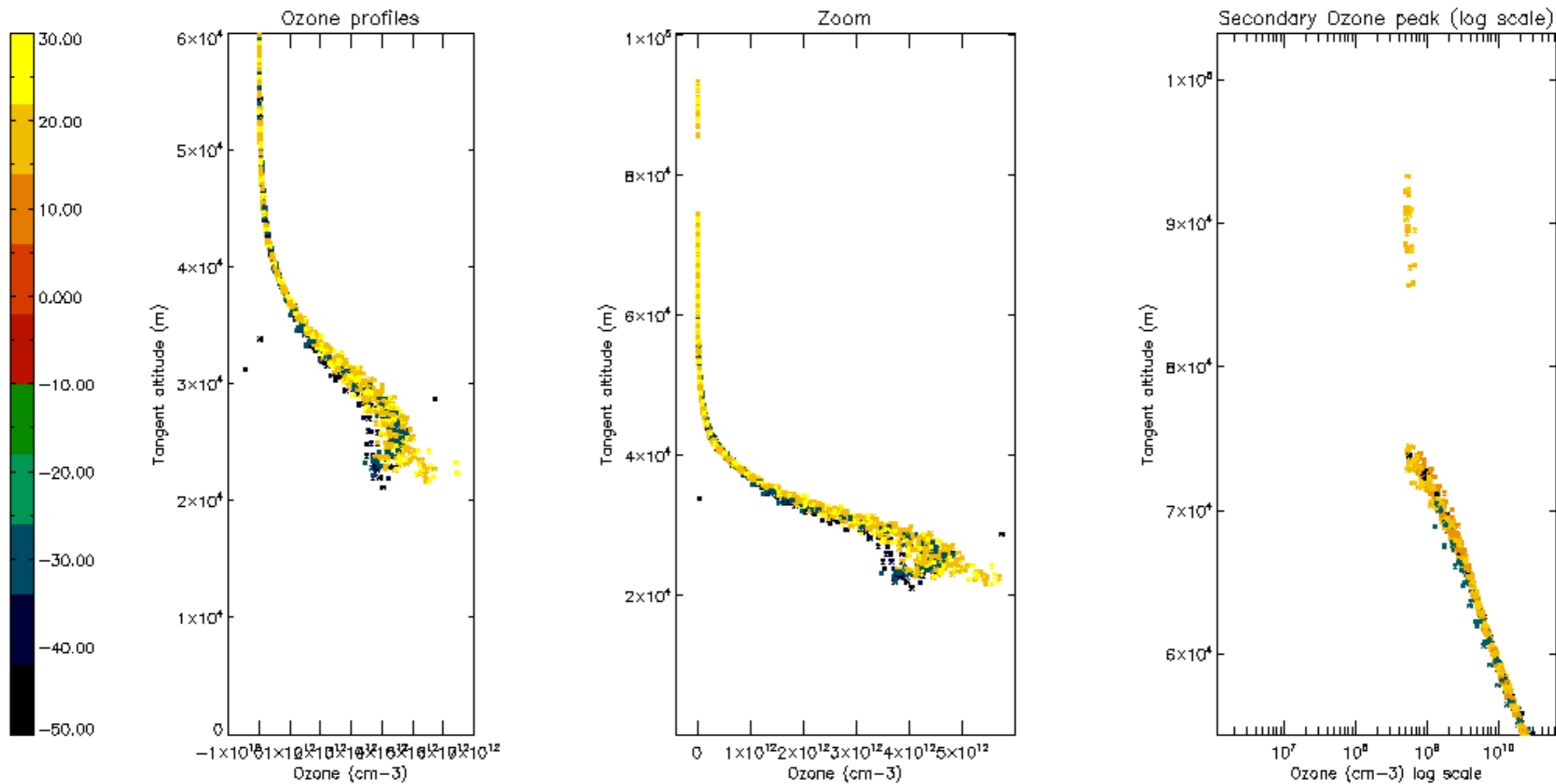
Percentage of saturation errors per profile

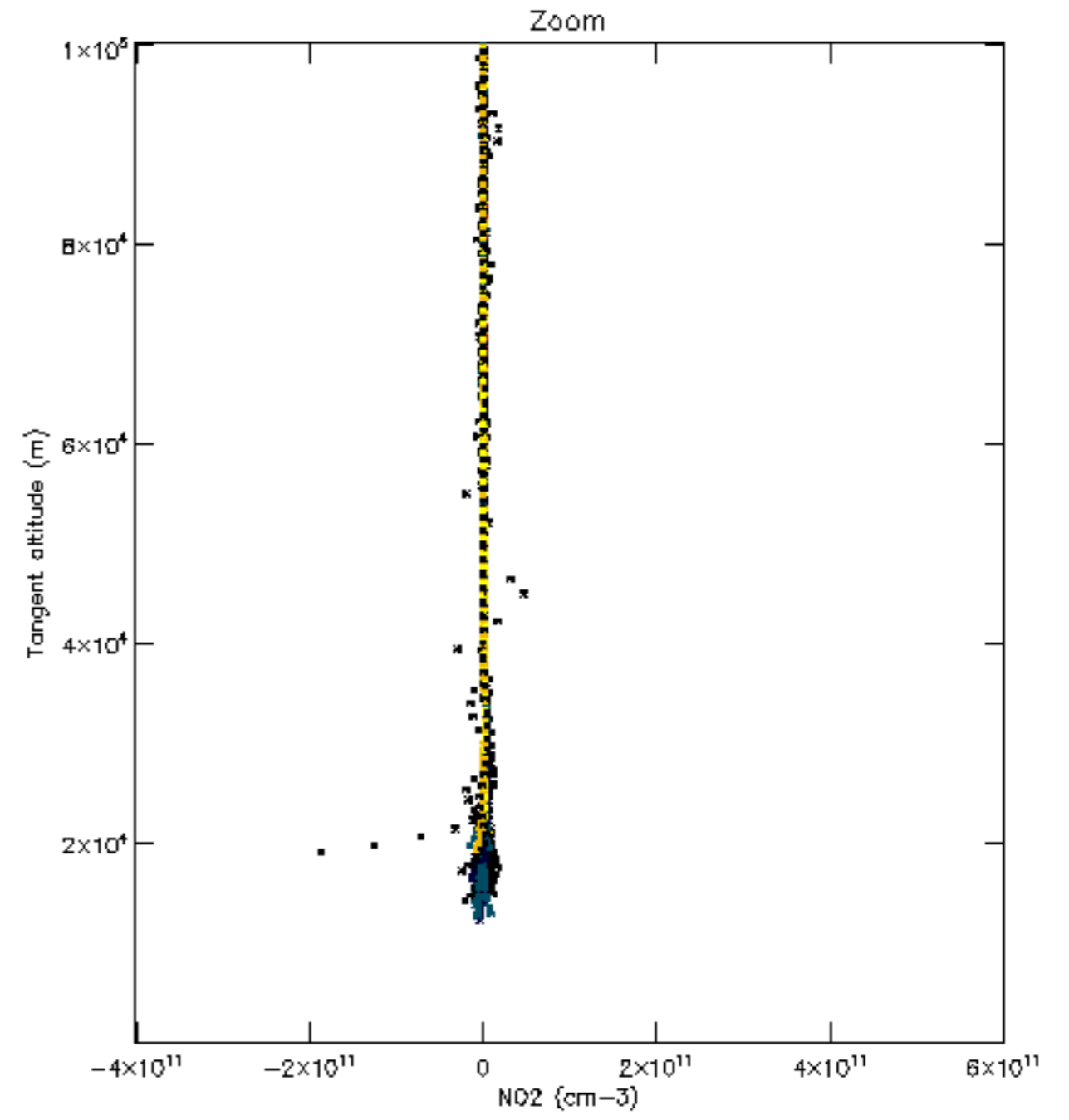
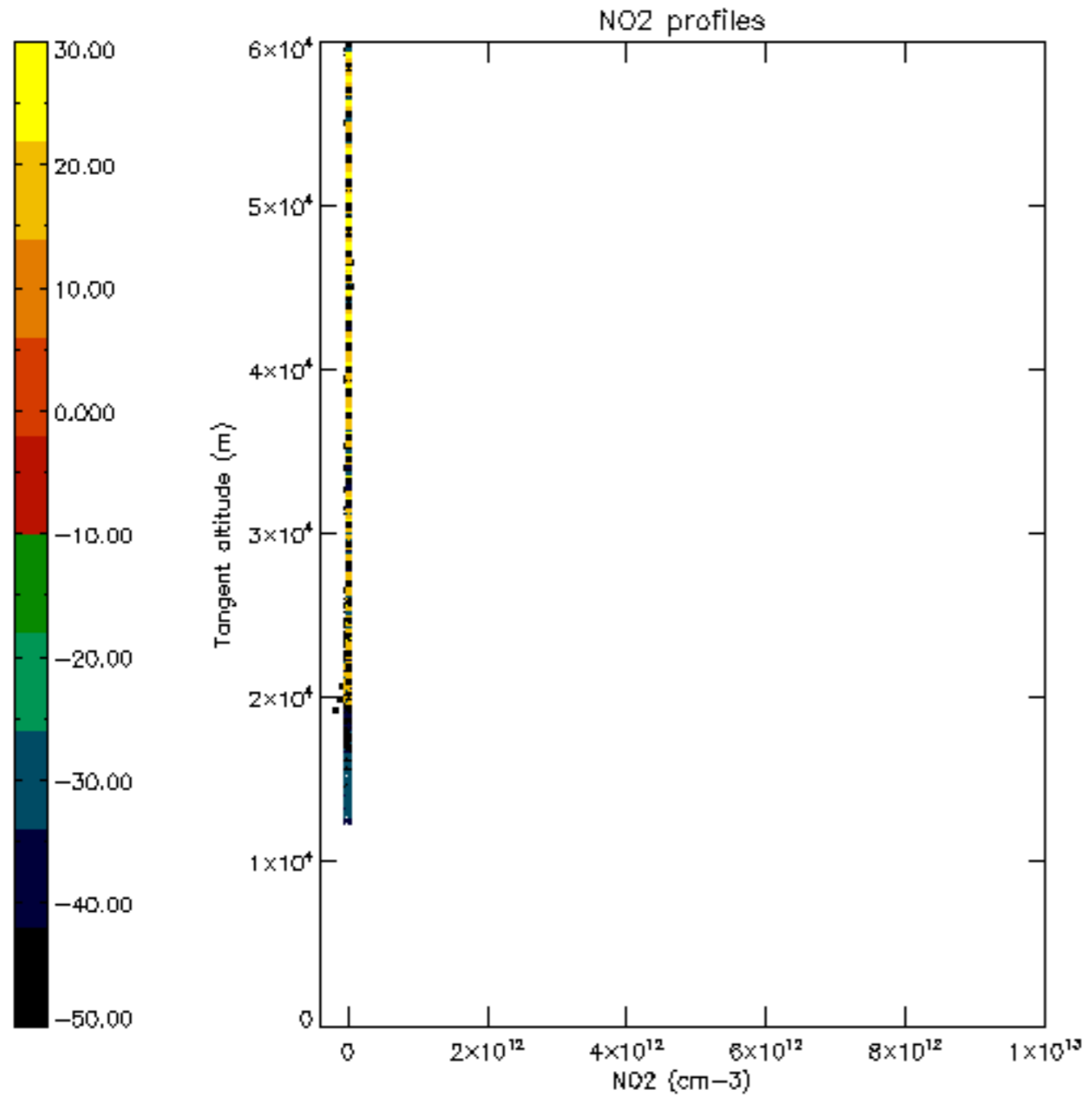


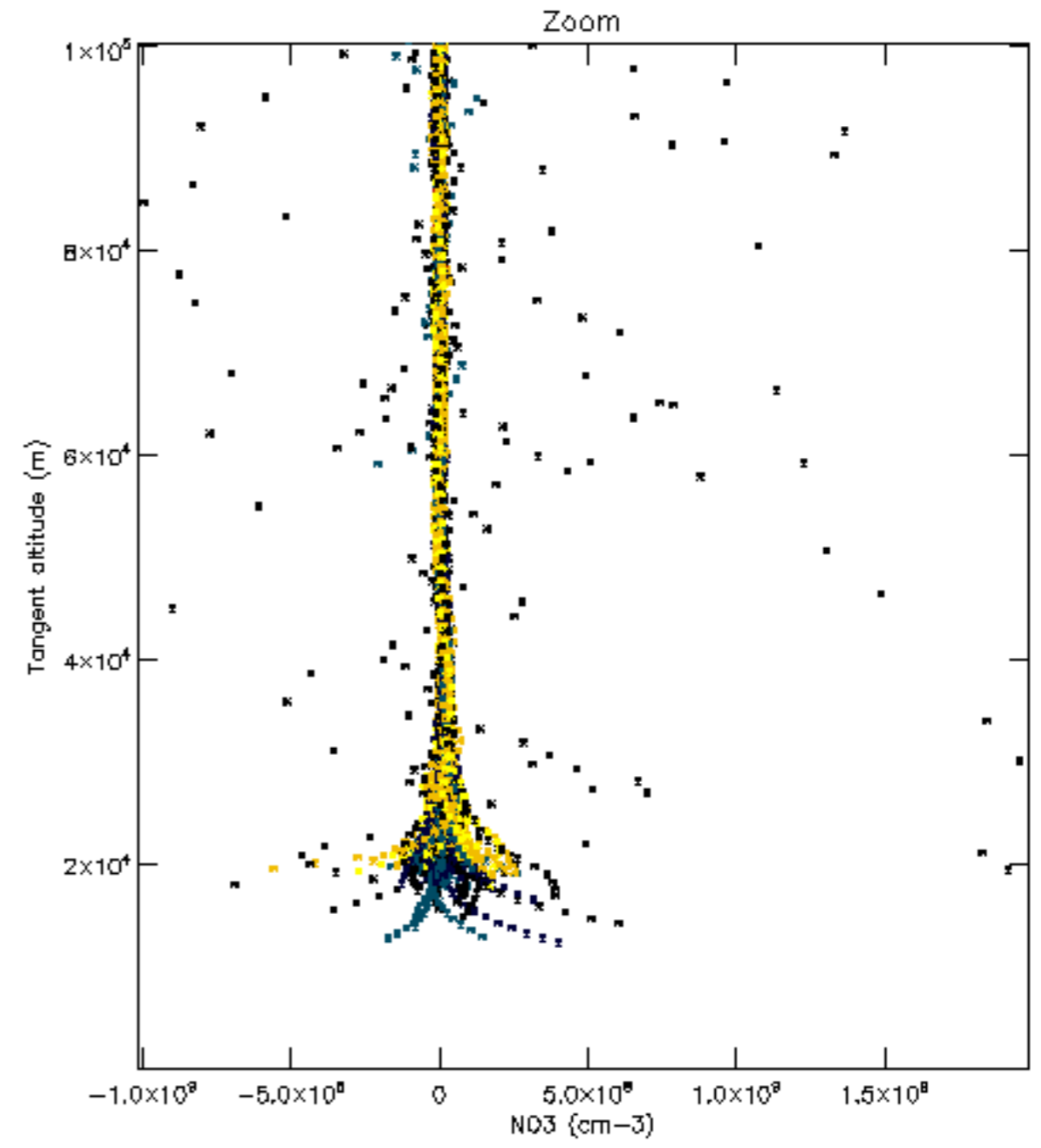
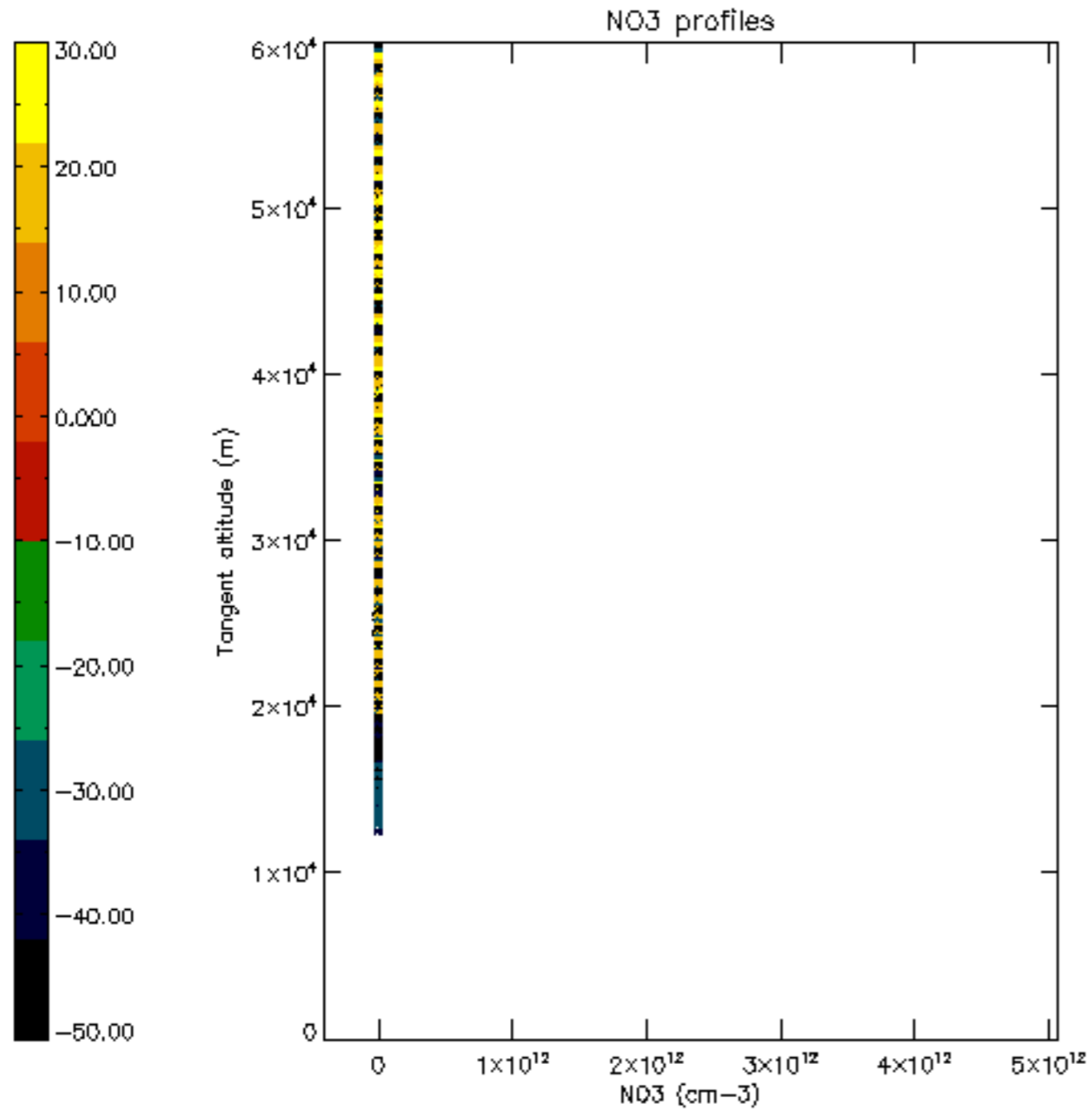




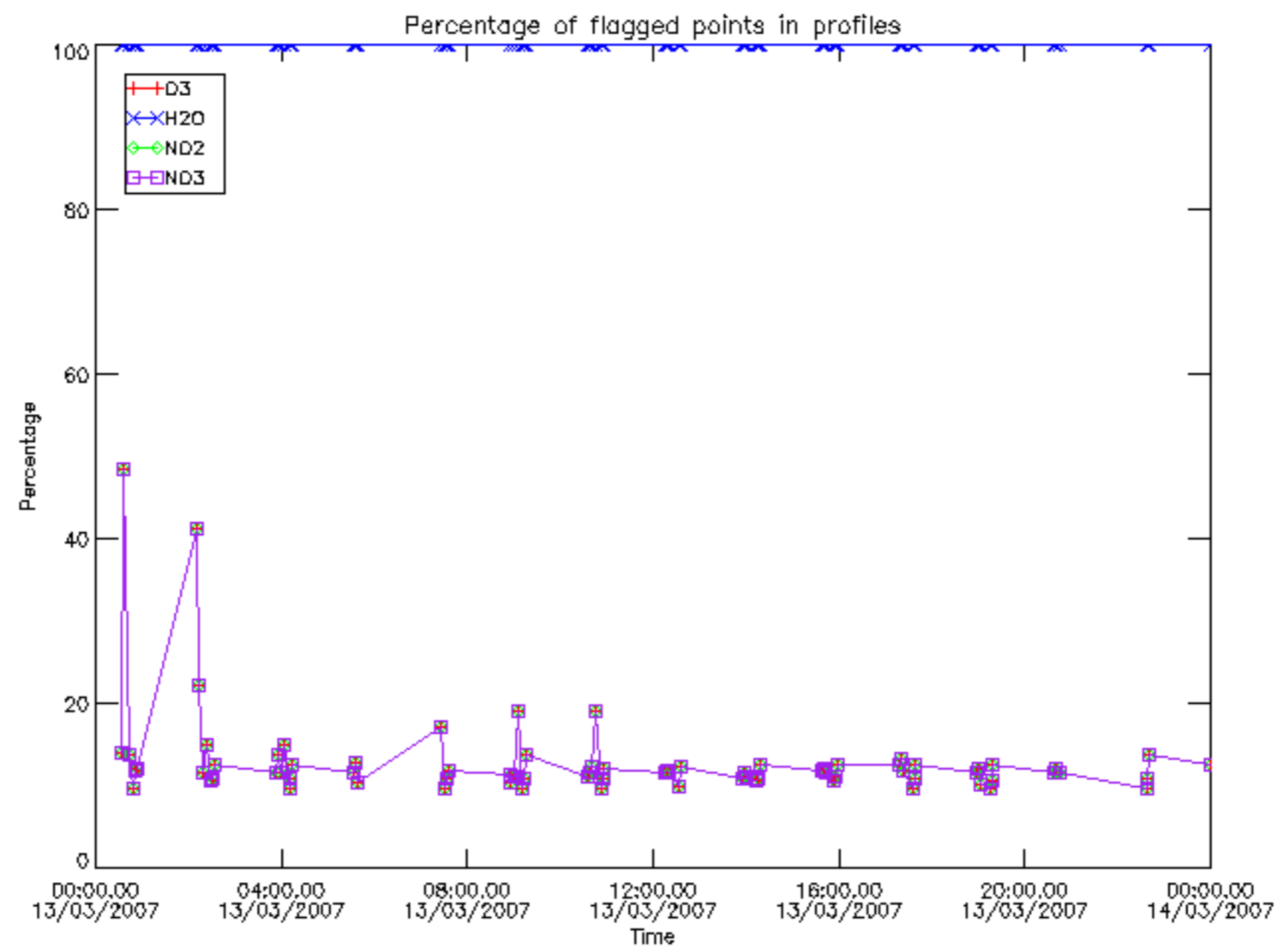




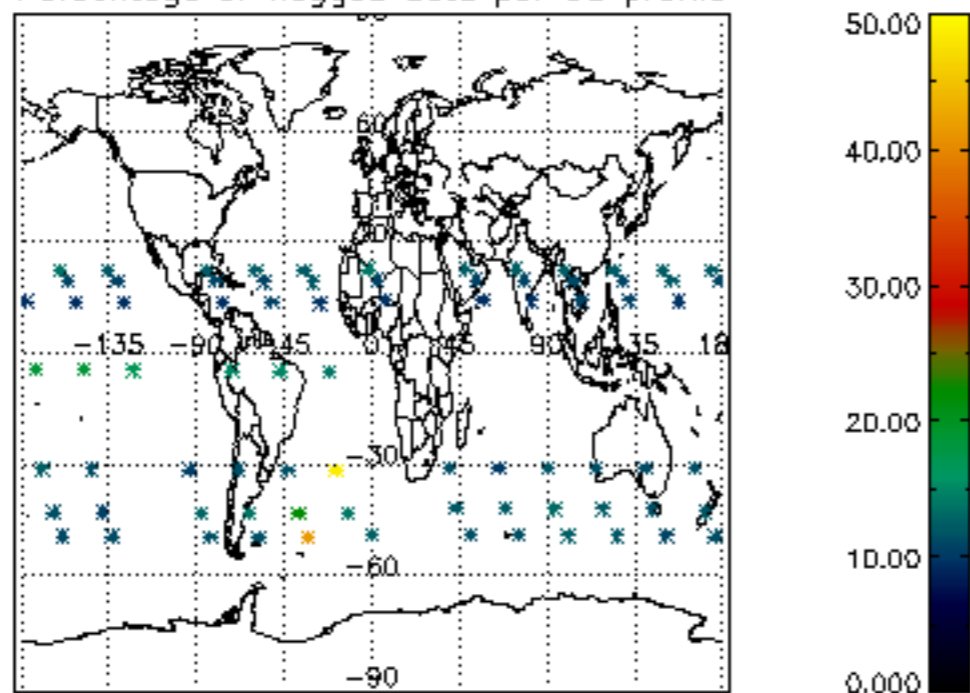




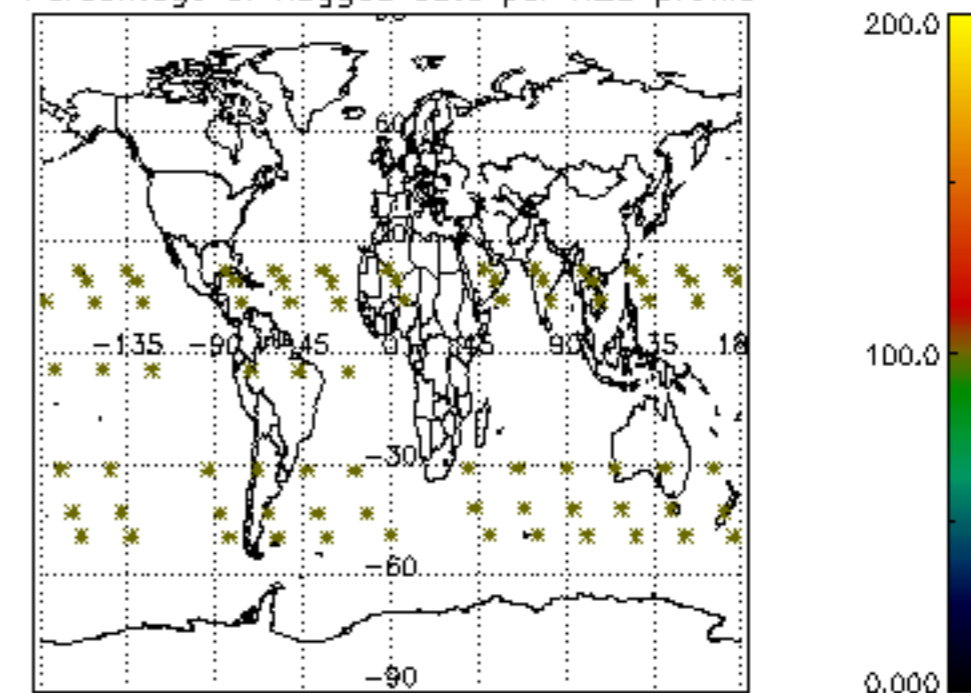




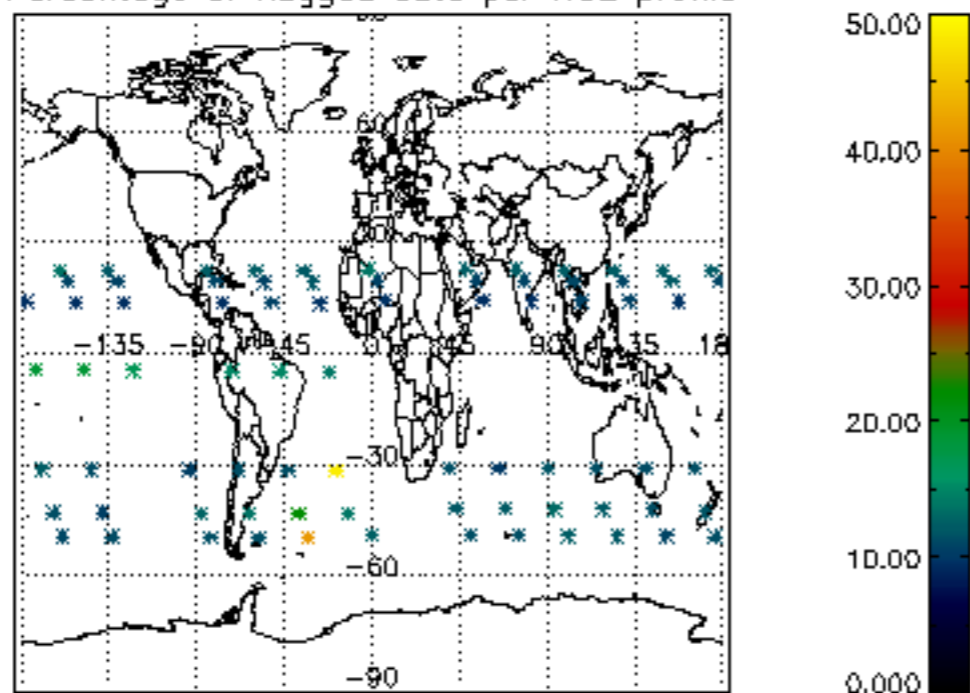
Percentage of flagged data per D3 profile



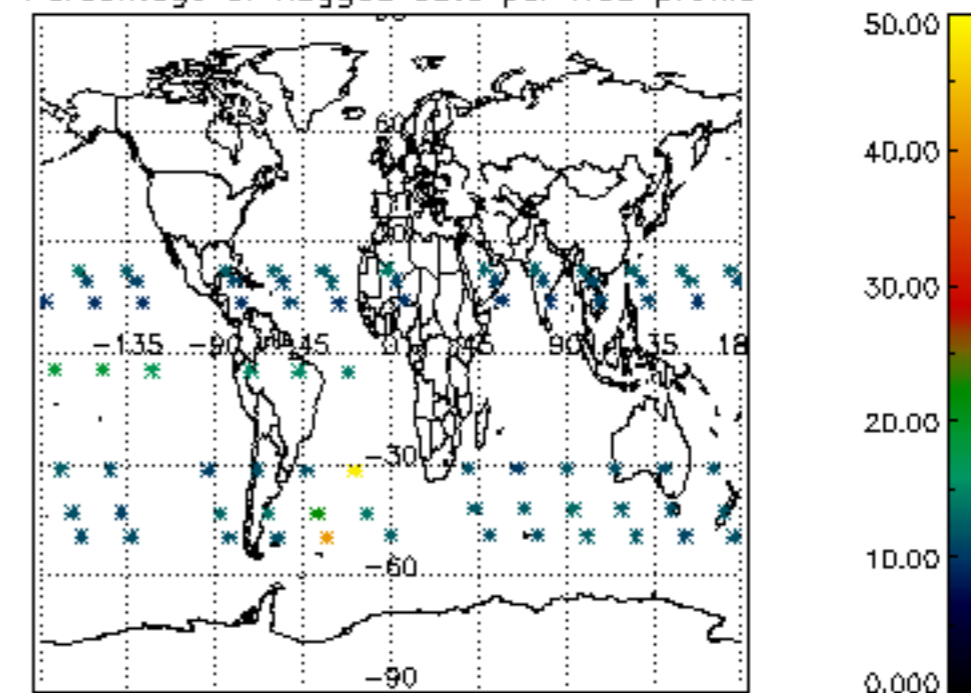
Percentage of flagged data per H2O profile

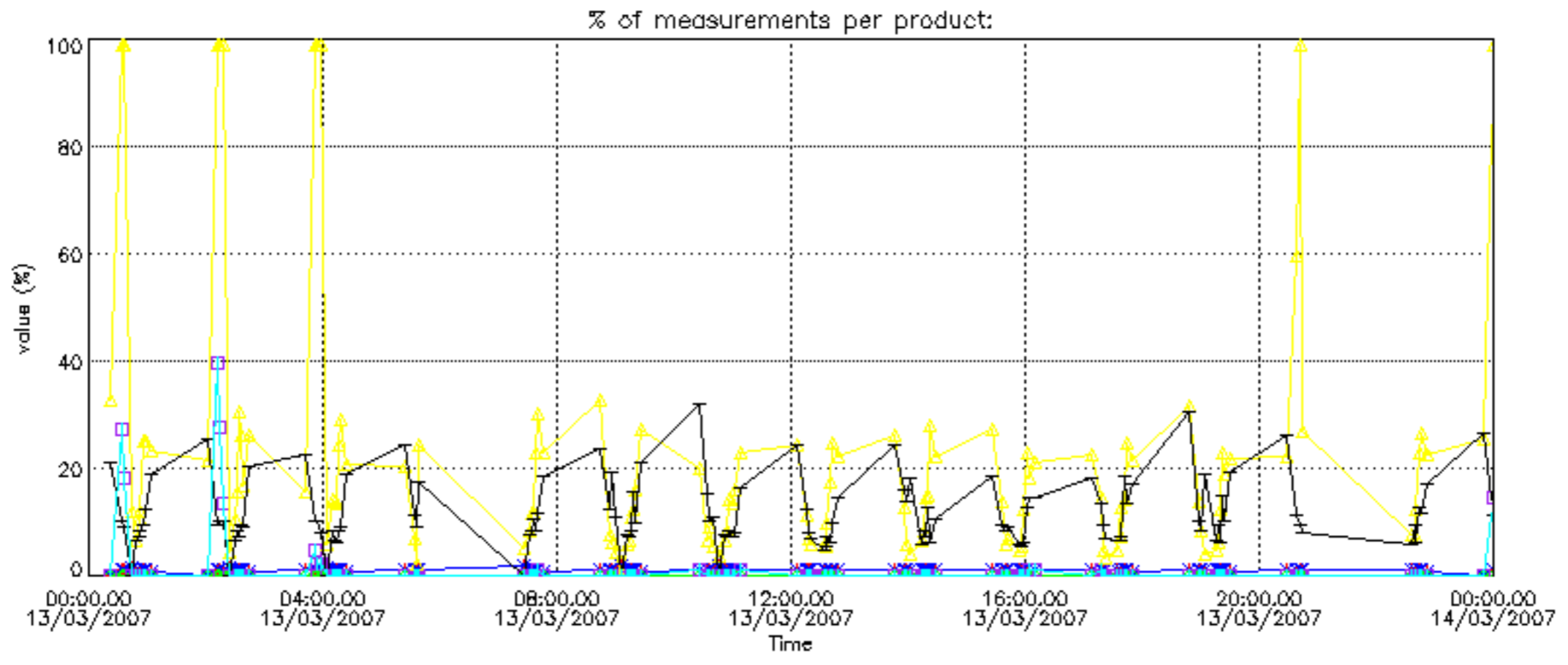


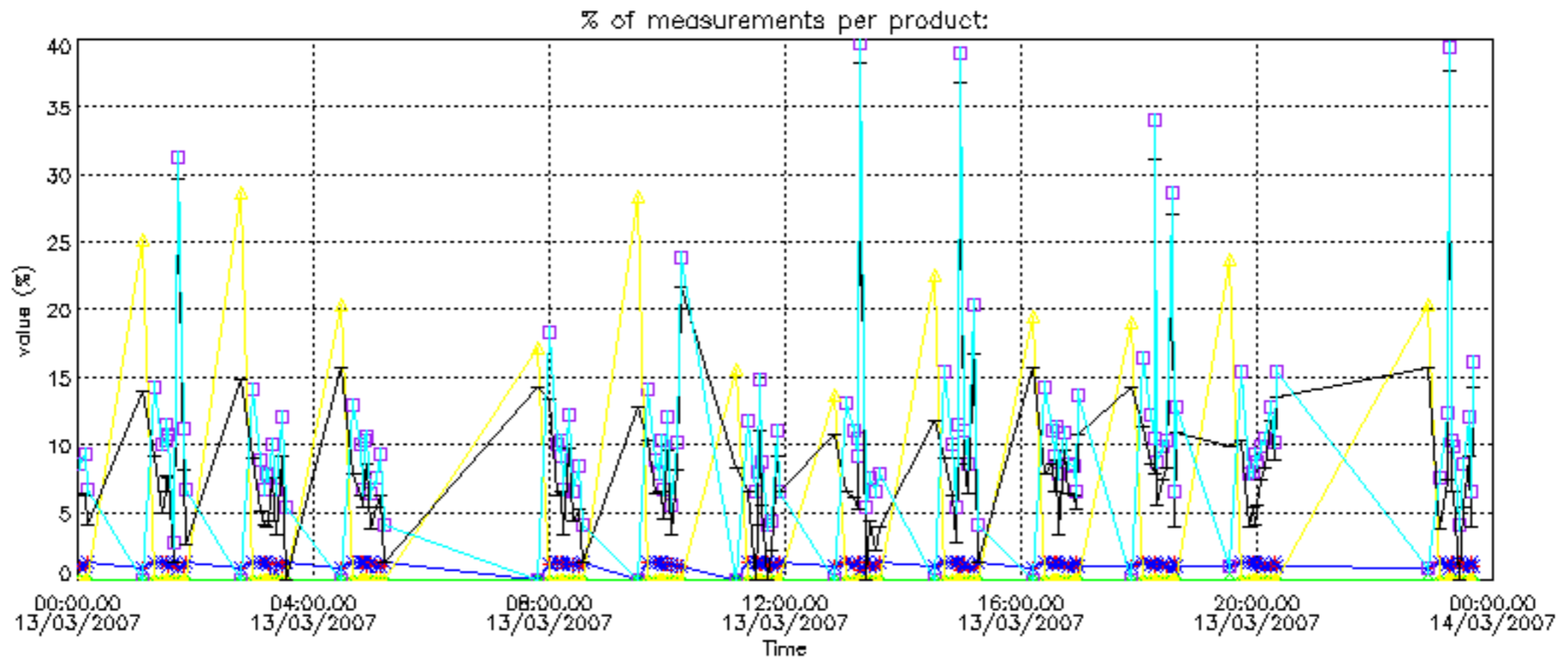
Percentage of flagged data per NO2 profile



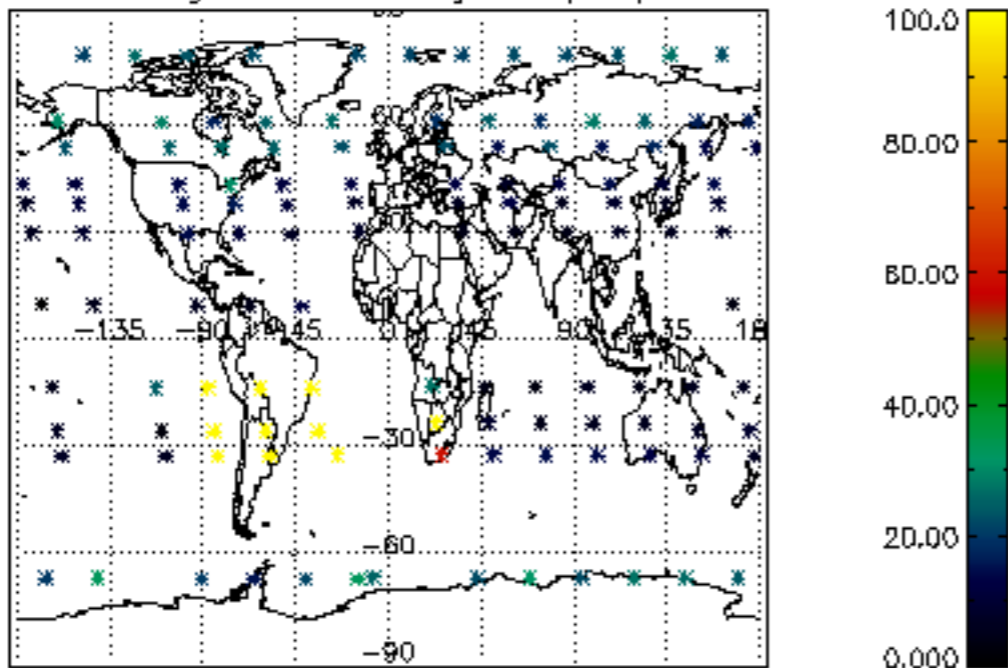
Percentage of flagged data per NO3 profile



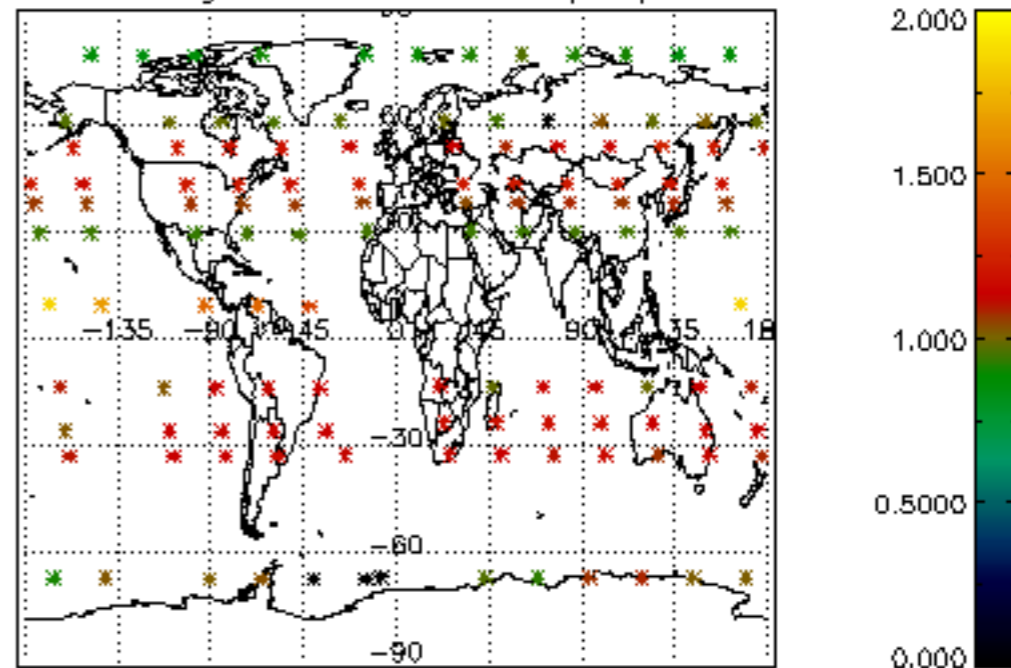




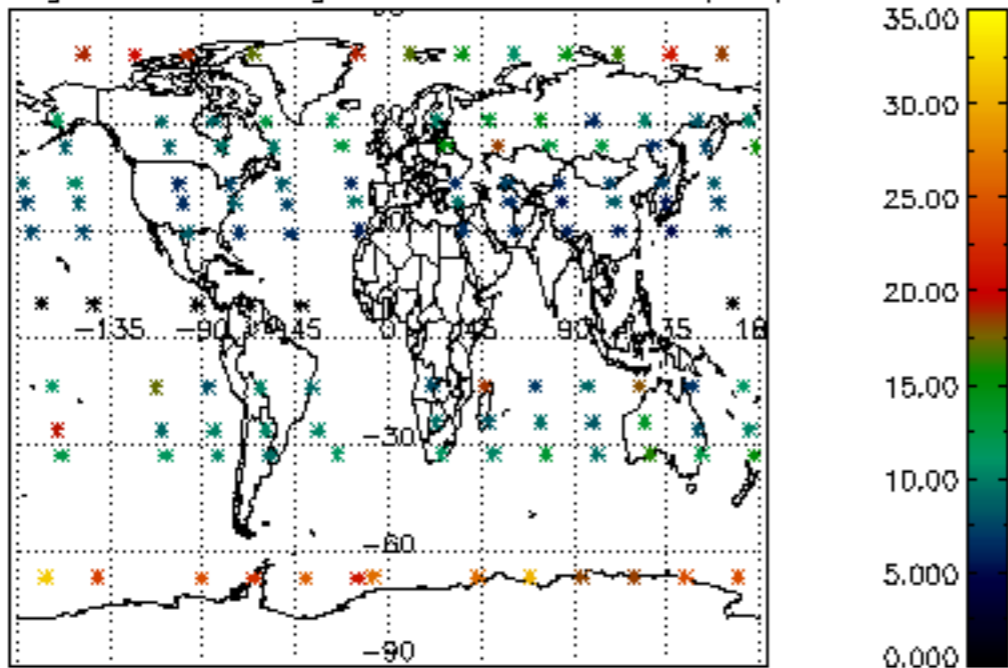
Percentage of cosmic ray hits per profile



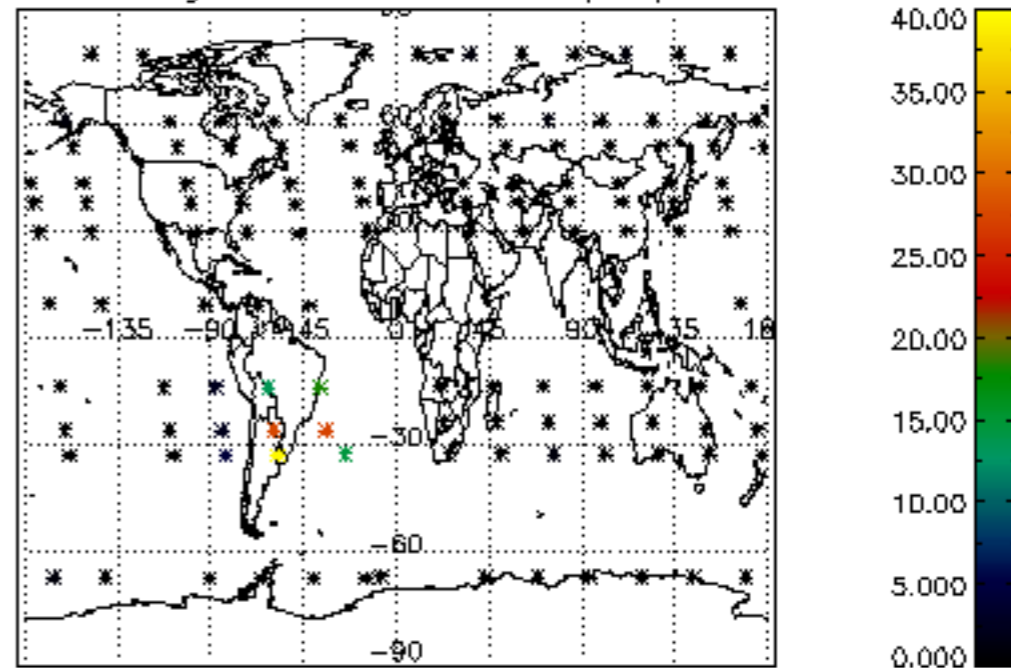
Percentage of datation errors per profile



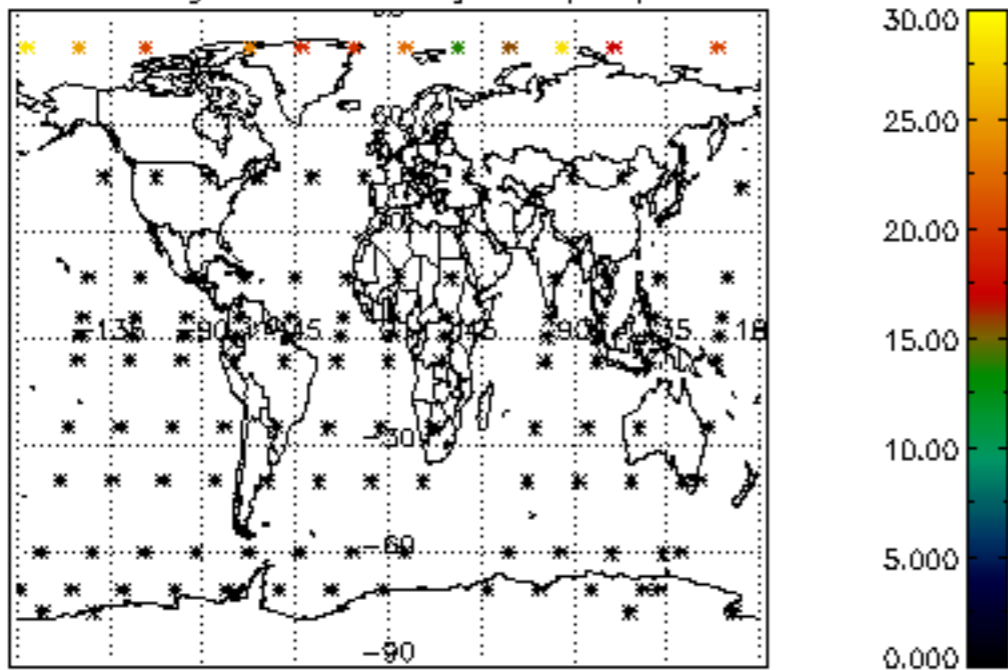
Percentage of star falling outside central band per profile



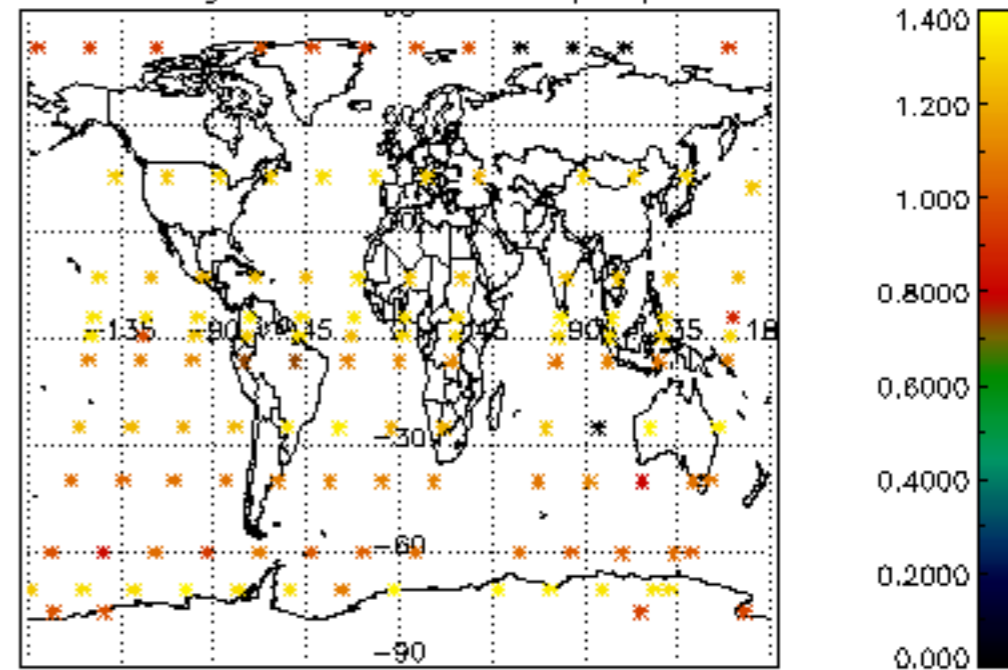
Percentage of saturation errors per profile



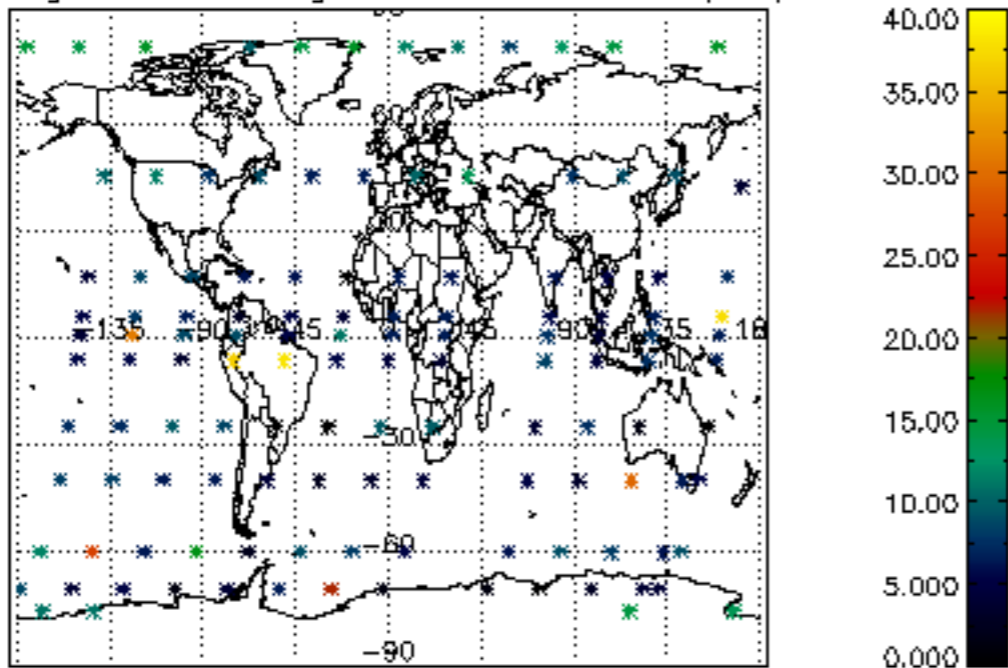
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

