

# 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 17:54:27
Data source version	GOMOS/6.01
Start time of products	30-03-2007 (30MAR2007 00:00:00)
Stop time of products	31-03-2007 (31MAR2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	253
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__2PRFIN20070330_000501_000000382056_00445_26551_5211.N1	30-MAR-2007 00:05:01	Dark	38.000	45	Alp Pav	1.9400	26000.	76	26551	No
2	GOM_NL__2PRFIN20070330_001230_000000392056_00446_26552_5364.N1	30-MAR-2007 00:12:30	Dark	38.500	43	Alp TrA	1.9100	4250.0	77	26552	No
3	GOM_NL__2PRFIN20070330_001417_000000392056_00446_26552_5365.N1	30-MAR-2007 00:14:17	Dark	38.500	134	Bet TrA	2.8100	6600.0	77	26552	No
4	GOM_NL__2PRFIN20070330_001657_000000472056_00446_26552_5366.N1	30-MAR-2007 00:16:57	Dark	46.500	4	Alp1Cen	-0.010000	5800.0	93	26552	No
5	GOM_NL__2PRFIN20070330_001922_000000422056_00446_26552_5367.N1	30-MAR-2007 00:19:22	Straylight	42.000	12	Alp1Cru	0.77500	30000.	84	26552	No
6	GOM_NL__2PRFIN20070330_002048_000000432056_00446_26552_5368.N1	30-MAR-2007 00:20:48	Straylight	43.000	26	Gam Cru	1.6240	2900.0	86	26552	No
7	GOM_NL__2PRFIN20070330_002242_000000412056_00446_26552_5369.N1	30-MAR-2007 00:22:42	Straylight	40.500	64	Gam Cen	2.2000	10600.	81	26552	No
8	GOM_NL__2PRFIN20070330_003044_000000422056_00446_26552_5370.N1	30-MAR-2007 00:30:44	Twilight	41.500	171	2Eps Crv	3.0010	4250.0	83	26552	No
9	GOM_NL__2PRFIN20070330_004337_000000362056_00446_26552_5371.N1	30-MAR-2007 00:43:37	Bright	36.000	96	68Del Leo	2.5600	9300.0	72	26552	No
10	GOM_NL__2PRFIN20070330_005028_000000372056_00446_26552_5372.N1	30-MAR-2007 00:50:28	Bright	37.000	174	52Psi UMa	3.0040	4400.0	74	26552	No
11	GOM_NL__2PRFIN20070330_005348_000000362056_00446_26552_5373.N1	30-MAR-2007 00:53:48	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	26552	No
12	GOM_NL__2PRFIN20070330_005520_000000382056_00446_26552_5374.N1	30-MAR-2007 00:55:20	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	26552	No
13	GOM_NL__2PRFIN20070330_010318_000000352056_00446_26552_5375.N1	30-MAR-2007 01:03:18	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	26552	No
14	GOM_NL__2PRFIN20070330_011103_000000372056_00446_26552_5376.N1	30-MAR-2007 01:11:03	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	26552	No
15	GOM_NL__2PRFIN20070330_012617_000000432056_00446_26552_5377.N1	30-MAR-2007 01:26:17	Bright	42.500	61	8Eps Peg	2.1000	3900.0	85	26552	No
16	GOM_NL__2PRFIN20070330_013049_000000432056_00446_26552_5378.N1	30-MAR-2007 01:30:49	Twilight	43.000	154	22Bet Aqr	2.8990	5700.0	86	26552	No
17	GOM_NL__2PRFIN20070330_013325_000000412056_00446_26552_5379.N1	30-MAR-2007 01:33:25	Dark	40.500	142	49Del Cap	2.8500	8900.0	81	26552	No
18	GOM_NL__2PRFIN20070330_014537_000000382056_00446_26552_5380.N1	30-MAR-2007 01:45:37	Dark	37.500	45	Alp Pav	1.9400	26000.	75	26552	No
19	GOM_NL__2PRFIN20070330_015306_000000402056_00447_26553_5375.N1	30-MAR-2007 01:53:06	Dark	39.500	43	Alp TrA	1.9100	4250.0	79	26553	No
20	GOM_NL__2PRFIN20070330_015453_000000392056_00447_26553_5376.N1	30-MAR-2007 01:54:53	Dark	38.500	134	Bet TrA	2.8100	6600.0	77	26553	No
21	GOM_NL__2PRFIN20070330_015734_000000452056_00447_26553_5377.N1	30-MAR-2007 01:57:34	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	26553	No
22	GOM_NL__2PRFIN20070330_015958_000000442056_00447_26553_5378.N1	30-MAR-2007 01:59:58	Straylight	44.000	12	Alp1Cru	0.77500	30000.	88	26553	No
23	GOM_NL__2PRFIN20070330_020124_000000462056_00447_26553_5379.N1	30-MAR-2007 02:01:24	Straylight	46.000	26	Gam Cru	1.6240	2900.0	92	26553	No
24	GOM_NL__2PRFIN20070330_020319_000000402056_00447_26553_5380.N1	30-MAR-2007 02:03:19	Straylight	39.500	64	Gam Cen	2.2000	10600.	79	26553	No
25	GOM_NL__2PRFIN20070330_021120_000000452056_00447_26553_5381.N1	30-MAR-2007 02:11:20	Twilight	44.500	171	2Eps Crv	3.0010	4250.0	89	26553	No
26	GOM_NL__2PRFIN20070330_022413_000000382056_00447_26553_5382.N1	30-MAR-2007 02:24:13	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	26553	No
27	GOM_NL__2PRFIN20070330_023104_000000362056_00447_26553_5383.N1	30-MAR-2007 02:31:04	Bright	36.000	174	52Psi UMa	3.0040	4400.0	72	26553	No
28	GOM_NL__2PRFIN20070330_023424_000000352056_00447_26553_5384.N1	30-MAR-2007 02:34:24	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	26553	No
29	GOM_NL__2PRFIN20070330_023555_000000372056_00447_26553_5385.N1	30-MAR-2007 02:35:55	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	26553	No
30	GOM_NL__2PRFIN20070330_024354_000000352056_00447_26553_5386.N1	30-MAR-2007 02:43:54	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	26553	No
31	GOM_NL__2PRFIN20070330_025139_000000362056_00447_26553_5387.N1	30-MAR-2007 02:51:39	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	26553	No
32	GOM_NL__2PRFIN20070330_030653_000000532056_00447_26553_5388.N1	30-MAR-2007 03:06:53	Bright	53.000	61	8Eps Peg	2.1000	3900.0	106	26553	No
33	GOM_NL__2PRFIN20070330_031126_000000422056_00447_26553_5389.N1	30-MAR-2007 03:11:26	Twilight	42.000	154	22Bet Aqr	2.8990	5700.0	84	26553	No
34	GOM_NL__2PRFIN20070330_031402_000000412056_00447_26553_5390.N1	30-MAR-2007 03:14:02	Dark	40.500	142	49Del Cap	2.8500	8900.0	81	26553	No
35	GOM_NL__2PRFIN20070330_032614_000000392056_00447_26553_5391.N1	30-MAR-2007 03:26:14	Dark	38.500	45	Alp Pav	1.9400	26000.	77	26553	No
36	GOM_NL__2PRFIN20070330_033343_000000392056_00448_26554_5391.N1	30-MAR-2007 03:33:43	Dark	38.500	43	Alp TrA	1.9100	4250.0	77	26554	No
37	GOM_NL__2PRFIN20070330_033530_000000402056_00448_26554_5392.N1	30-MAR-2007 03:35:30	Dark	39.500	134	Bet TrA	2.8100	6600.0	79	26554	No
38	GOM_NL__2PRFIN20070330_033810_000000442056_00448_26554_5393.N1	30-MAR-2007 03:38:10	Dark	43.500	4	Alp1Cen	-0.010000	5800.0	87	26554	No
39	GOM_NL__2PRFIN20070330_034035_000000412056_00448_26554_5394.N1	30-MAR-2007 03:40:35	Straylight	40.500	12	Alp1Cru	0.77500	30000.	81	26554	No
40	GOM_NL__2PRFIN20070330_034200_000000432056_00448_26554_5395.N1	30-MAR-2007 03:42:00	Straylight	42.500	26	Gam Cru	1.6240	2900.0	85	26554	No
41	GOM_NL__2PRFIN20070330_034355_000000392056_00448_26554_5396.N1	30-MAR-2007 03:43:55	Straylight	38.500	64	Gam Cen	2.2000	10600.	77	26554	No
42	GOM_NL__2PRFIN20070330_035156_000000452056_00448_26554_5397.N1	30-MAR-2007 03:51:56	Twilight	45.000	171	2Eps Crv	3.0010	4250.0	90	26554	No





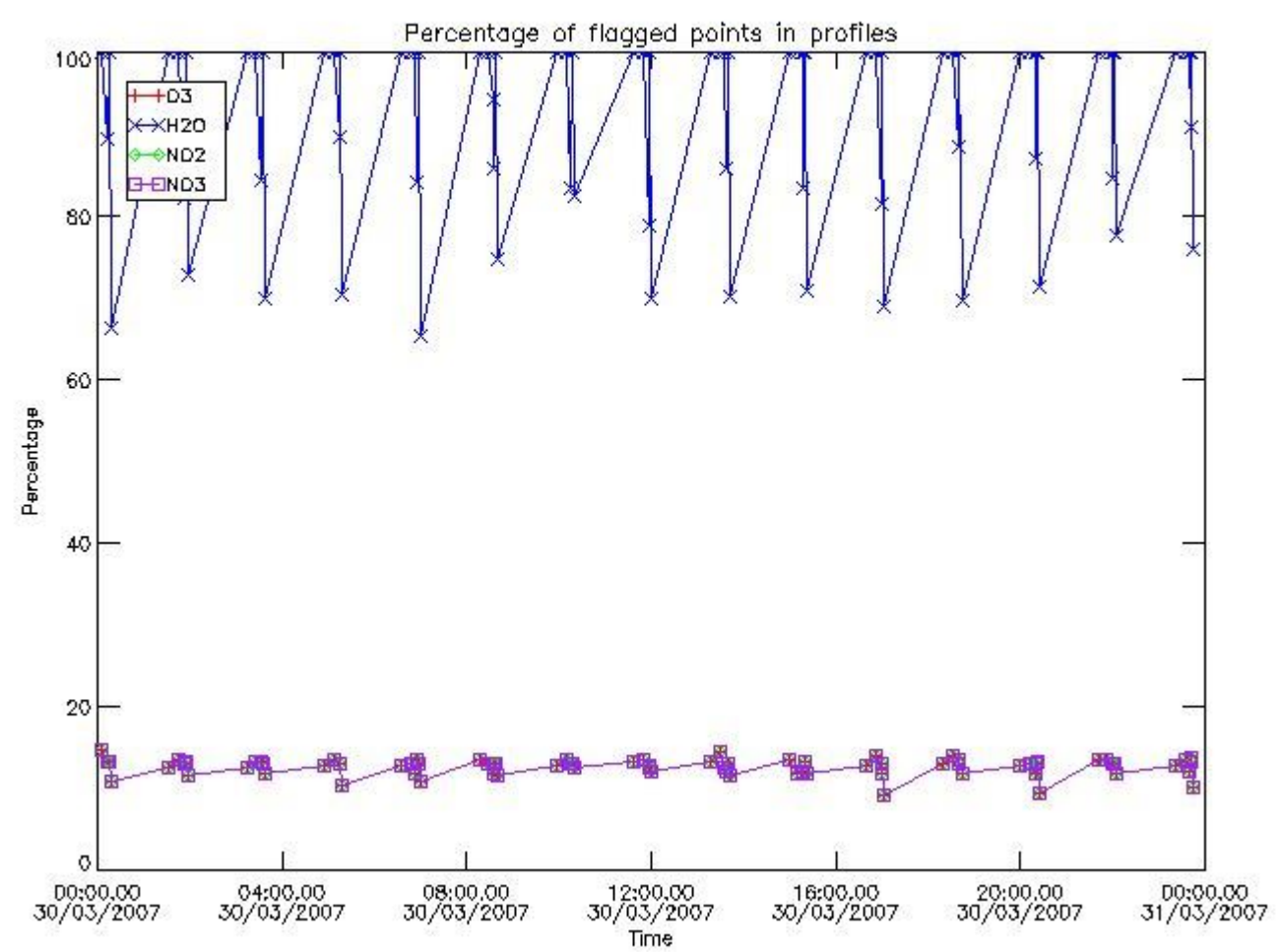


220	GOM_NL__2PRFIN20070330_210058_000000362056_00458_26564_5628.N1	30-MAR-2007 21:00:58	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	26564	No
221	GOM_NL__2PRFIN20070330_210230_000000372056_00458_26564_5629.N1	30-MAR-2007 21:02:30	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	26564	No
222	GOM_NL__2PRFIN20070330_211030_000000372056_00458_26564_5630.N1	30-MAR-2007 21:10:30	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	26564	No
223	GOM_NL__2PRFIN20070330_211813_000000542056_00458_26564_5631.N1	30-MAR-2007 21:18:13	Bright	54.000	89	5Alp Cep	2.4510	8000.0	108	26564	No
224	GOM_NL__2PRFIN20070330_213331_000000412056_00458_26564_5632.N1	30-MAR-2007 21:33:31	Bright	41.000	61	8Eps Peg	2.1000	3900.0	82	26564	No
225	GOM_NL__2PRFIN20070330_213805_000000442056_00458_26564_5633.N1	30-MAR-2007 21:38:05	Twilight	43.500	154	22Bet Aqr	2.8990	5700.0	87	26564	No
226	GOM_NL__2PRFIN20070330_214040_000000422056_00458_26564_5634.N1	30-MAR-2007 21:40:40	Dark	41.500	142	49Del Cap	2.8500	8900.0	83	26564	No
227	GOM_NL__2PRFIN20070330_215253_000000382056_00458_26564_5635.N1	30-MAR-2007 21:52:53	Dark	37.500	45	Alp Pav	1.9400	26000.	75	26564	No
228	GOM_NL__2PRFIN20070330_215904_000000432056_00459_26565_5629.N1	30-MAR-2007 21:59:04	Dark	43.000	141	Bet Ara	2.8400	4600.0	86	26565	No
229	GOM_NL__2PRFIN20070330_220022_000000402056_00459_26565_5630.N1	30-MAR-2007 22:00:22	Dark	39.500	43	Alp TrA	1.9100	4250.0	79	26565	No
230	GOM_NL__2PRFIN20070330_220211_000000392056_00459_26565_5631.N1	30-MAR-2007 22:02:11	Dark	39.000	134	Bet TrA	2.8100	6600.0	78	26565	No
231	GOM_NL__2PRFIN20070330_220451_000000432056_00459_26565_5632.N1	30-MAR-2007 22:04:51	Dark	43.000	4	Alp1Cen	-0.010000	5800.0	86	26565	No
232	GOM_NL__2PRFIN20070330_220713_000000422056_00459_26565_5633.N1	30-MAR-2007 22:07:13	Straylight	42.000	12	Alp1Cru	0.77500	30000.	84	26565	No
233	GOM_NL__2PRFIN20070330_220839_000000502056_00459_26565_5634.N1	30-MAR-2007 22:08:39	Straylight	50.000	26	Gam Cru	1.6240	2900.0	100	26565	No
234	GOM_NL__2PRFIN20070330_221034_000000382056_00459_26565_5635.N1	30-MAR-2007 22:10:34	Straylight	38.000	64	Gam Cen	2.2000	10600.	76	26565	No
235	GOM_NL__2PRFIN20070330_221833_000000452056_00459_26565_5636.N1	30-MAR-2007 22:18:33	Twilight	44.500	171	2Eps Crv	3.0010	4250.0	89	26565	No
236	GOM_NL__2PRFIN20070330_223124_000000362056_00459_26565_5637.N1	30-MAR-2007 22:31:24	Bright	35.500	96	68Del Leo	2.5600	9300.0	71	26565	No
237	GOM_NL__2PRFIN20070330_223814_000000352056_00459_26565_5638.N1	30-MAR-2007 22:38:14	Bright	35.000	174	52Psi UMa	3.0040	4400.0	70	26565	No
238	GOM_NL__2PRFIN20070330_224134_000000352056_00459_26565_5639.N1	30-MAR-2007 22:41:34	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	26565	No
239	GOM_NL__2PRFIN20070330_224305_000000362056_00459_26565_5640.N1	30-MAR-2007 22:43:05	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	26565	No
240	GOM_NL__2PRFIN20070330_225106_000000352056_00459_26565_5641.N1	30-MAR-2007 22:51:06	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	26565	No
241	GOM_NL__2PRFIN20070330_225849_000000362056_00459_26565_5642.N1	30-MAR-2007 22:58:49	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	26565	No
242	GOM_NL__2PRFIN20070330_231407_000000472056_00459_26565_5643.N1	30-MAR-2007 23:14:07	Bright	46.500	61	8Eps Peg	2.1000	3900.0	93	26565	No
243	GOM_NL__2PRFIN20070330_231841_000000442056_00459_26565_5644.N1	30-MAR-2007 23:18:41	Twilight	43.500	154	22Bet Aqr	2.8990	5700.0	87	26565	No
244	GOM_NL__2PRFIN20070330_232116_000000402056_00459_26565_5645.N1	30-MAR-2007 23:21:16	Dark	39.500	142	49Del Cap	2.8500	8900.0	79	26565	No
245	GOM_NL__2PRFIN20070330_233329_000000382056_00459_26565_5646.N1	30-MAR-2007 23:33:29	Dark	37.500	45	Alp Pav	1.9400	26000.	75	26565	No
246	GOM_NL__2PRFIN20070330_233940_000000422056_00460_26566_5633.N1	30-MAR-2007 23:39:40	Dark	42.000	141	Bet Ara	2.8400	4600.0	84	26566	No
247	GOM_NL__2PRFIN20070330_234059_000000392056_00460_26566_5634.N1	30-MAR-2007 23:40:59	Dark	38.500	43	Alp TrA	1.9100	4250.0	77	26566	No
248	GOM_NL__2PRFIN20070330_234247_000000372056_00460_26566_5635.N1	30-MAR-2007 23:42:47	Dark	37.000	134	Bet TrA	2.8100	6600.0	74	26566	No
249	GOM_NL__2PRFIN20070330_234527_000000512056_00460_26566_5636.N1	30-MAR-2007 23:45:27	Dark	50.500	4	Alp1Cen	-0.010000	5800.0	101	26566	No
250	GOM_NL__2PRFIN20070330_234749_000000422056_00460_26566_5637.N1	30-MAR-2007 23:47:49	Straylight	41.500	12	Alp1Cru	0.77500	30000.	83	26566	No
251	GOM_NL__2PRFIN20070330_234915_000000422056_00460_26566_5638.N1	30-MAR-2007 23:49:15	Straylight	41.500	26	Gam Cru	1.6240	2900.0	83	26566	No
252	GOM_NL__2PRFIN20070330_235110_000000412056_00460_26566_5639.N1	30-MAR-2007 23:51:10	Straylight	40.500	64	Gam Cen	2.2000	10600.	81	26566	No
253	GOM_NL__2PRFIN20070330_235909_000000432056_00460_26566_5640.N1	30-MAR-2007 23:59:09	Twilight	42.500	171	2Eps Crv	3.0010	4250.0	85	26566	No

### 3. Quality information per product

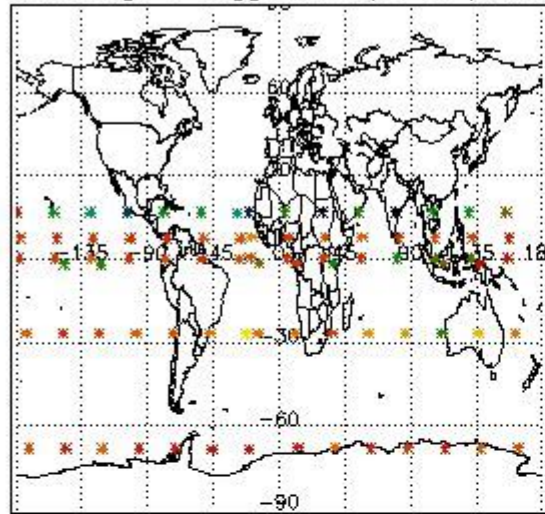
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

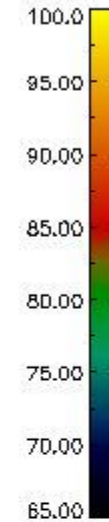
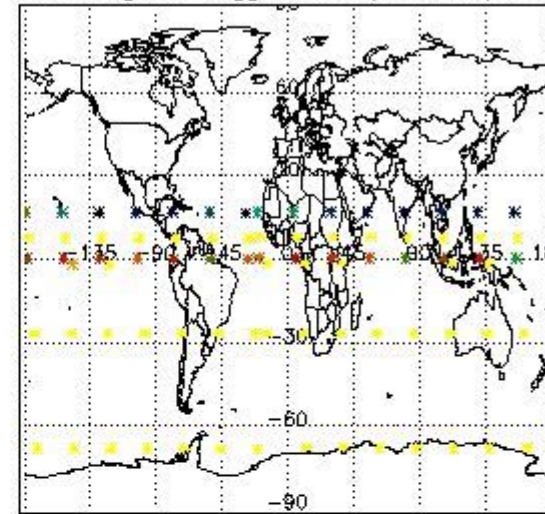


3.2 Plot quality information per product (world map)

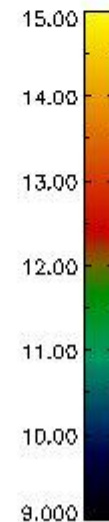
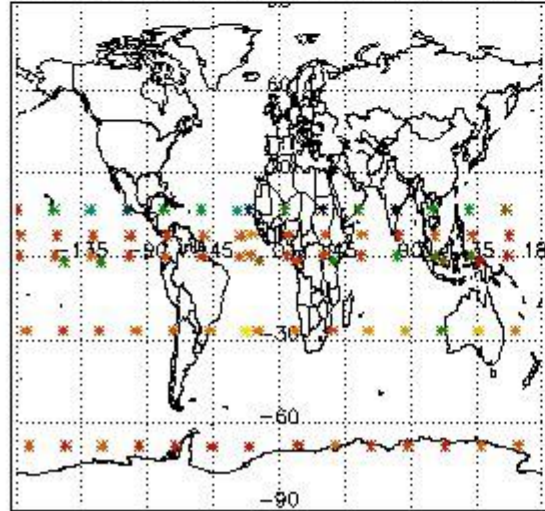
Percentage of flagged data per O3 profile



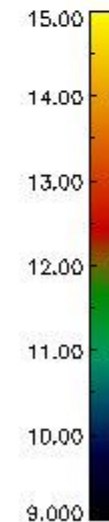
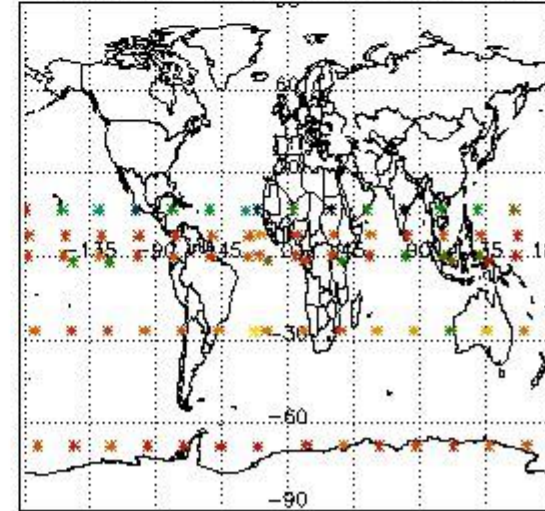
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile



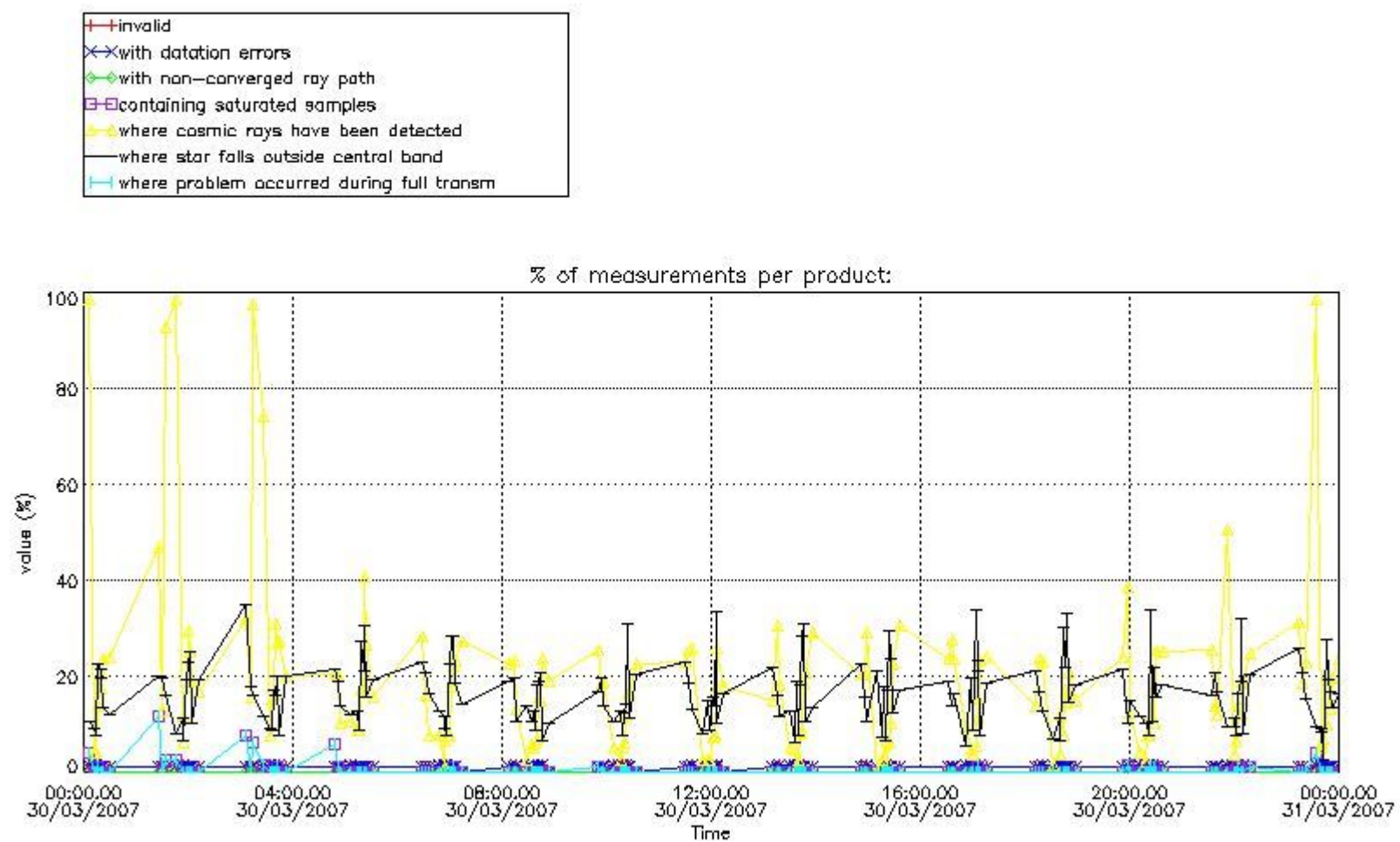
#### 4. Level 1 quality information per product

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.

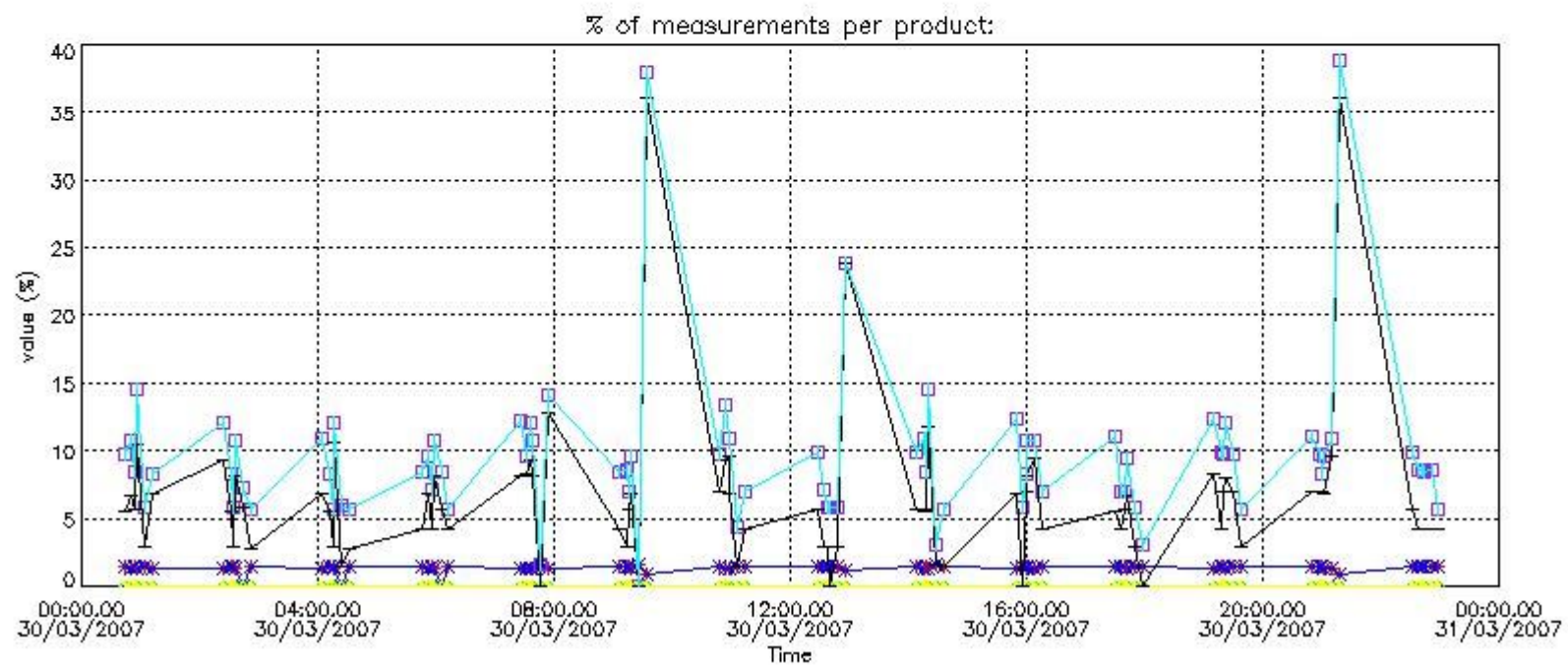
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

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



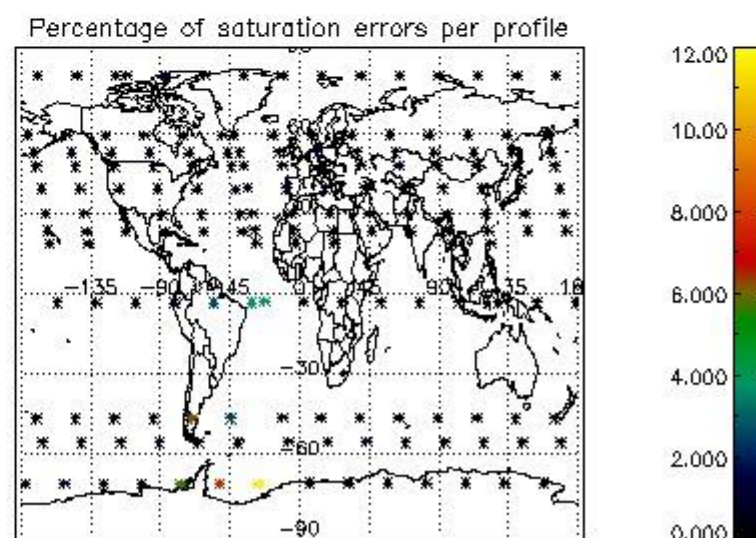
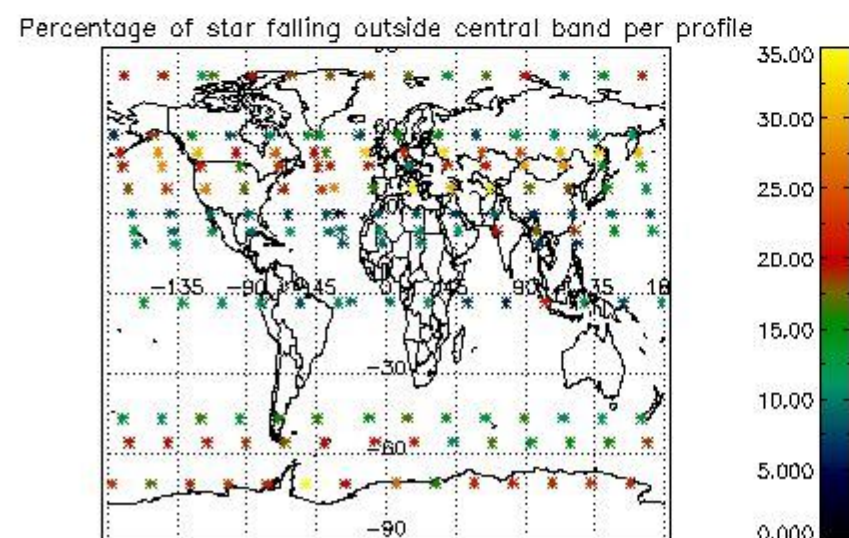
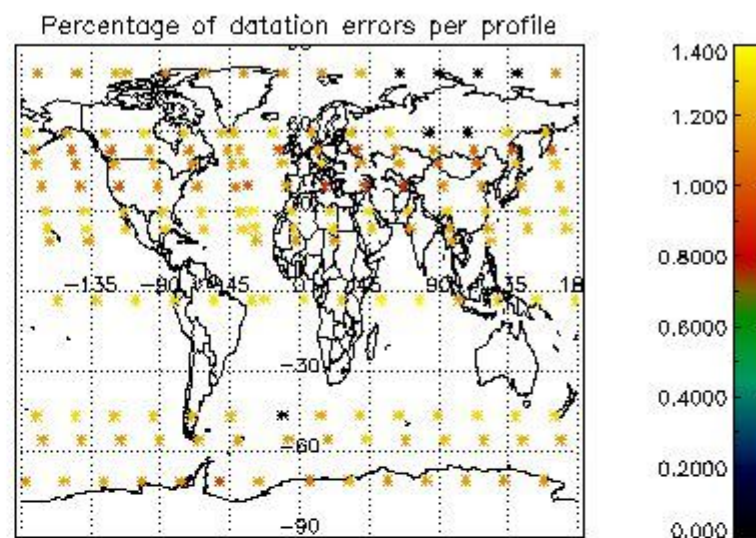
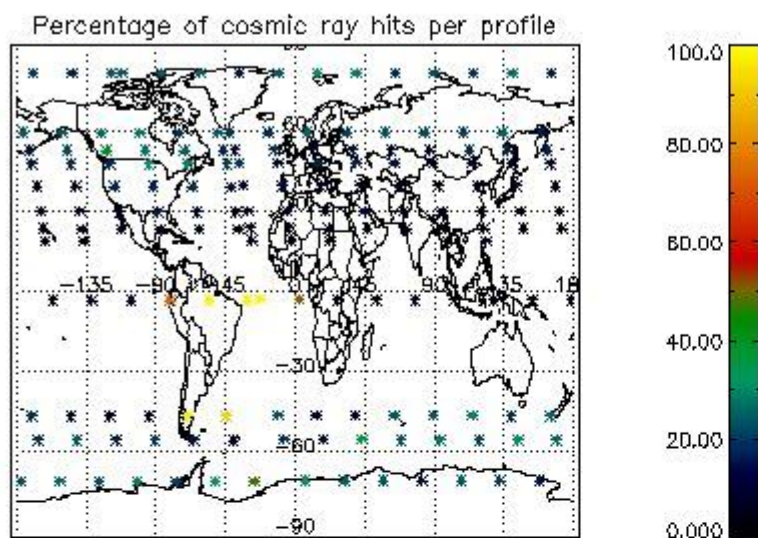


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

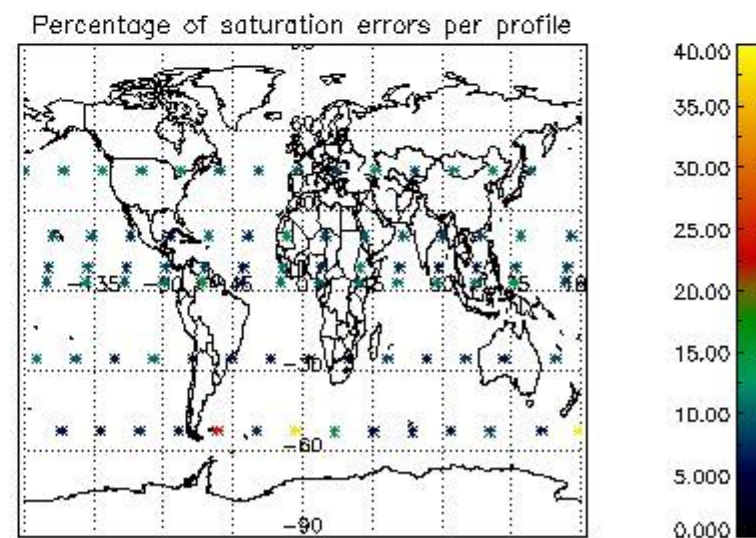
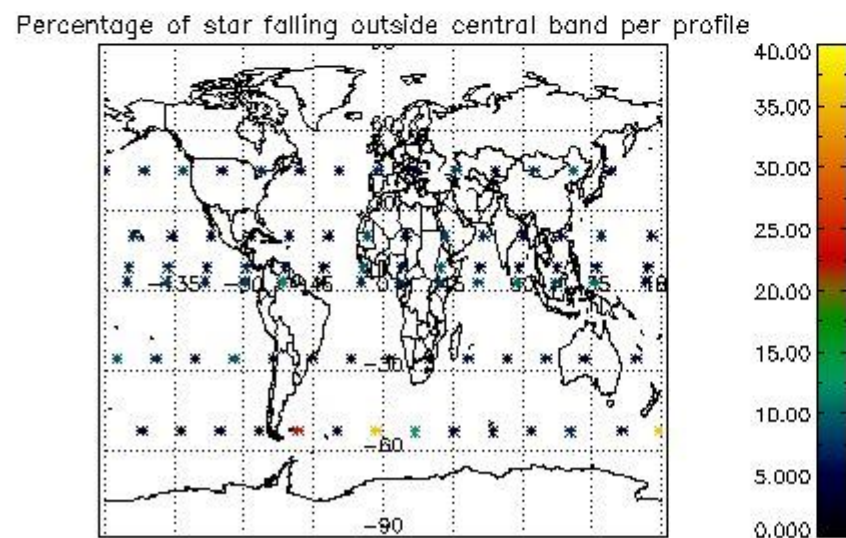
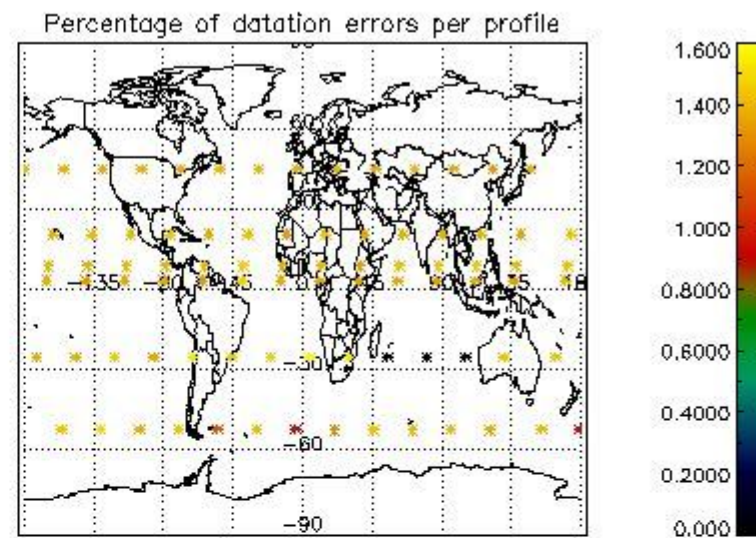
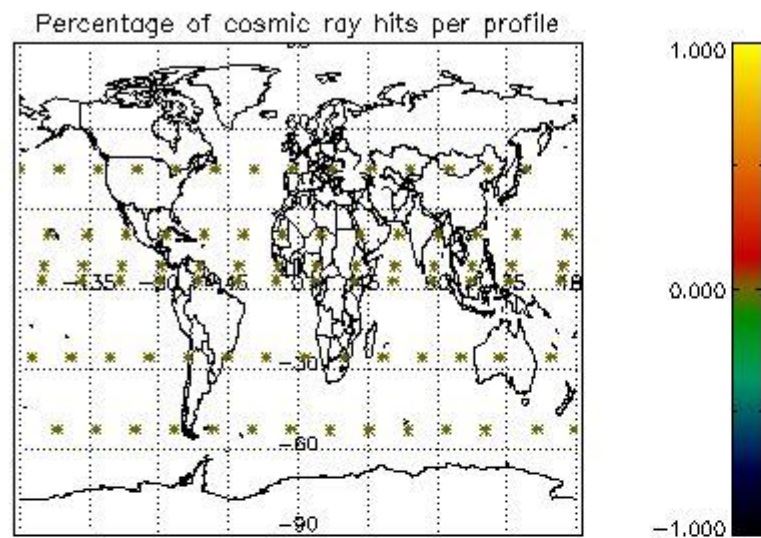


4.2 Plot quality information per product coming from level 1b processing (world map)

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

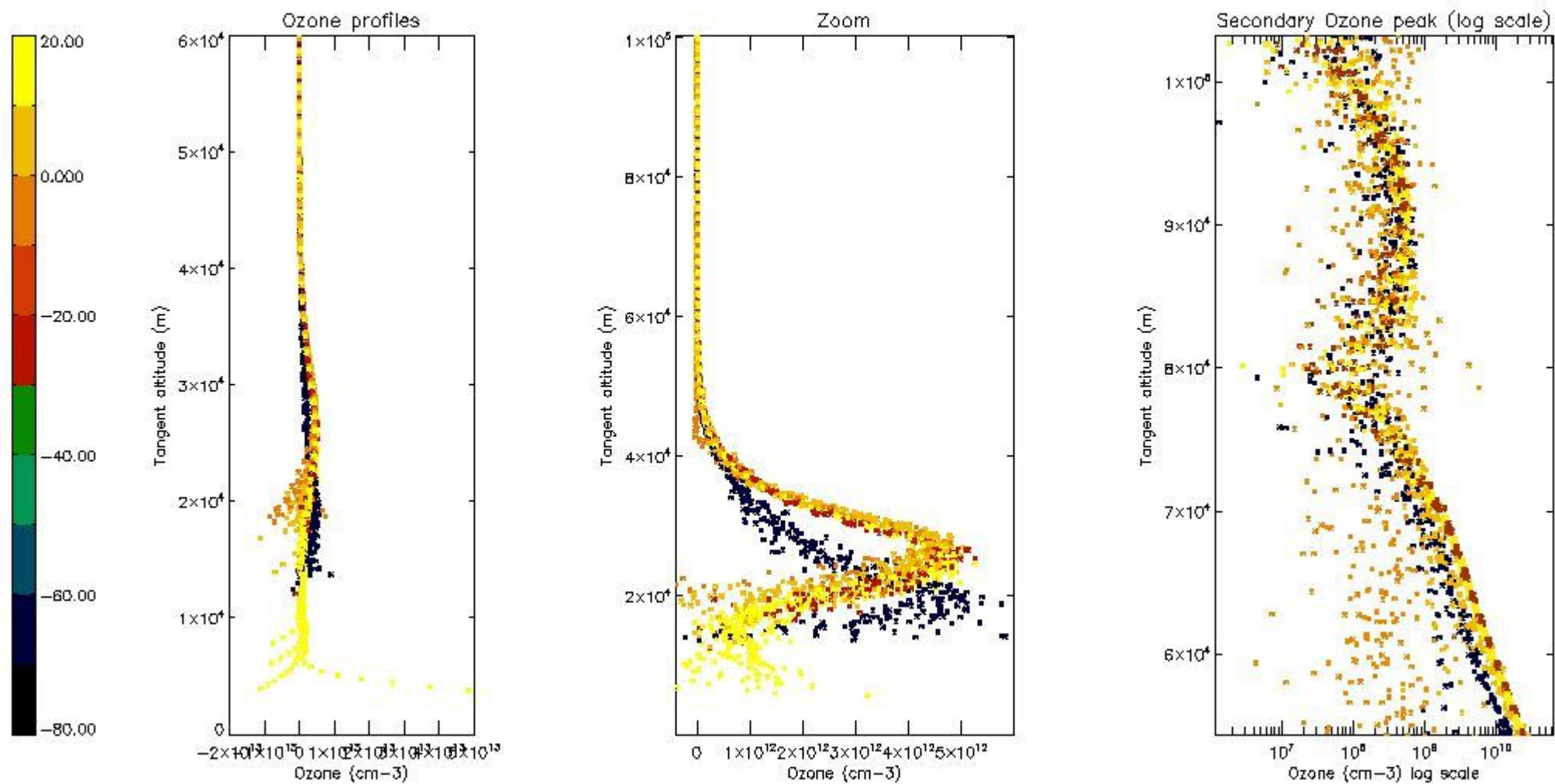
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	33
STD < 20	16

STD < 10	11
STD < 5	6

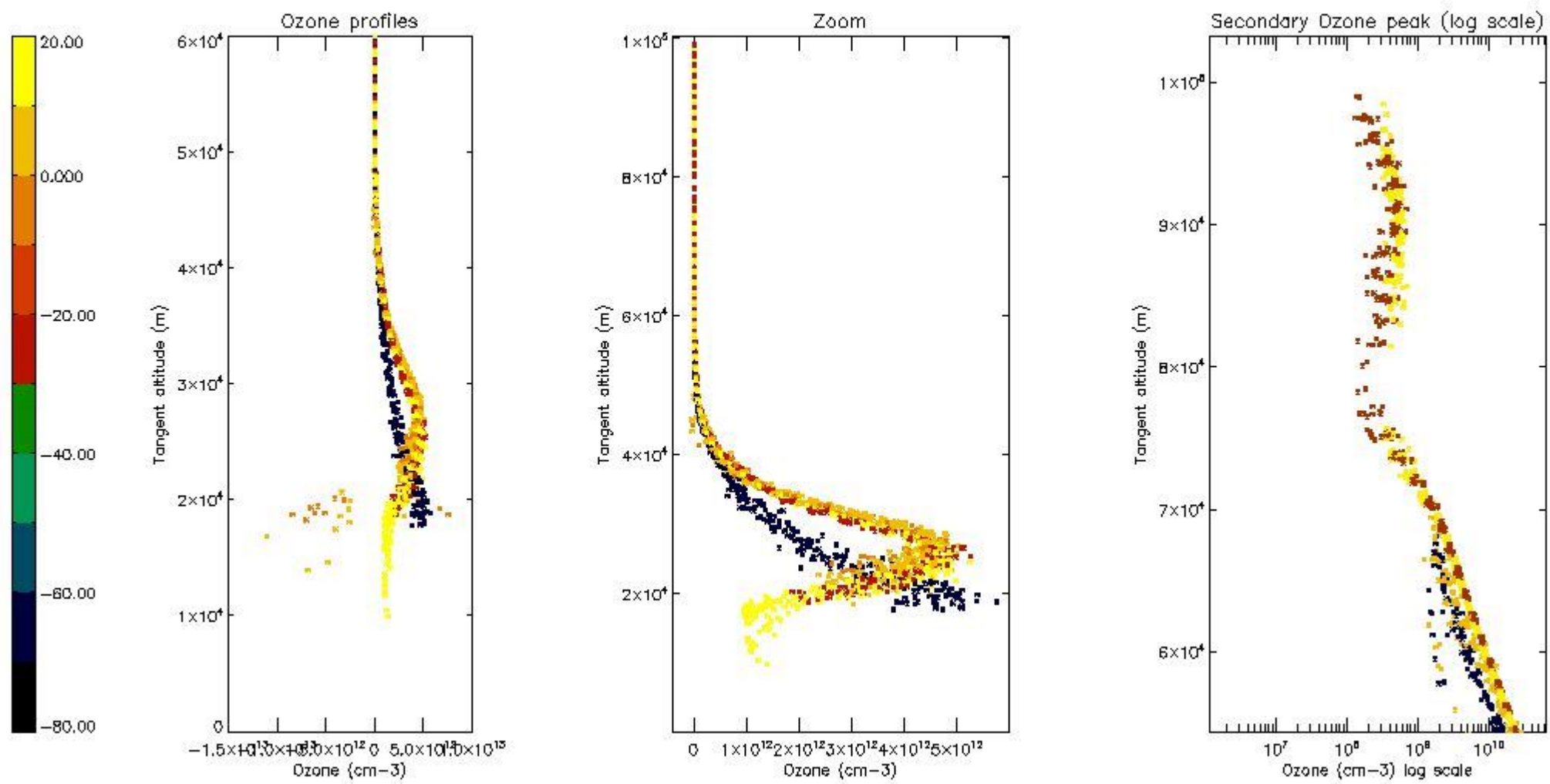
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



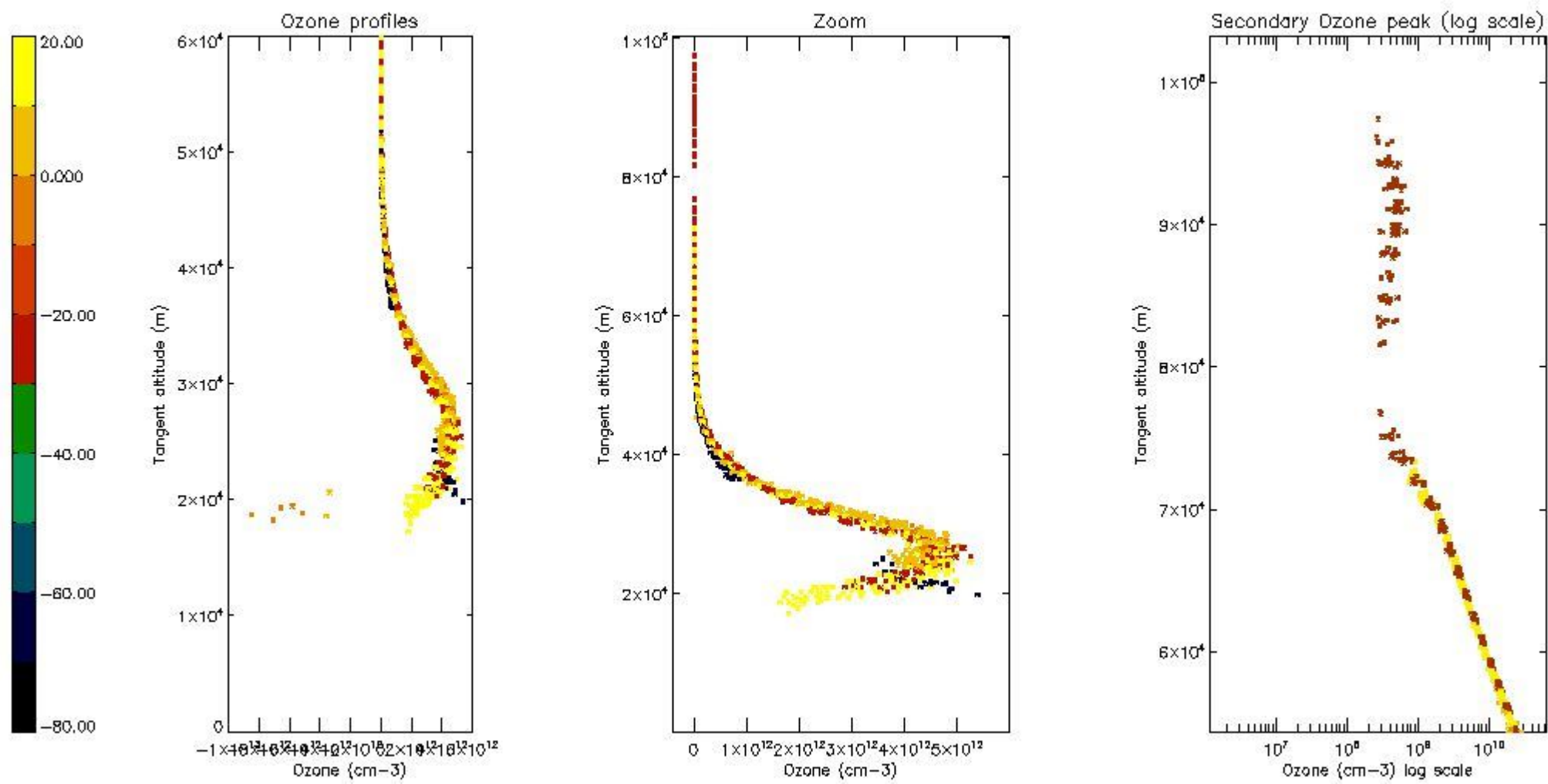
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



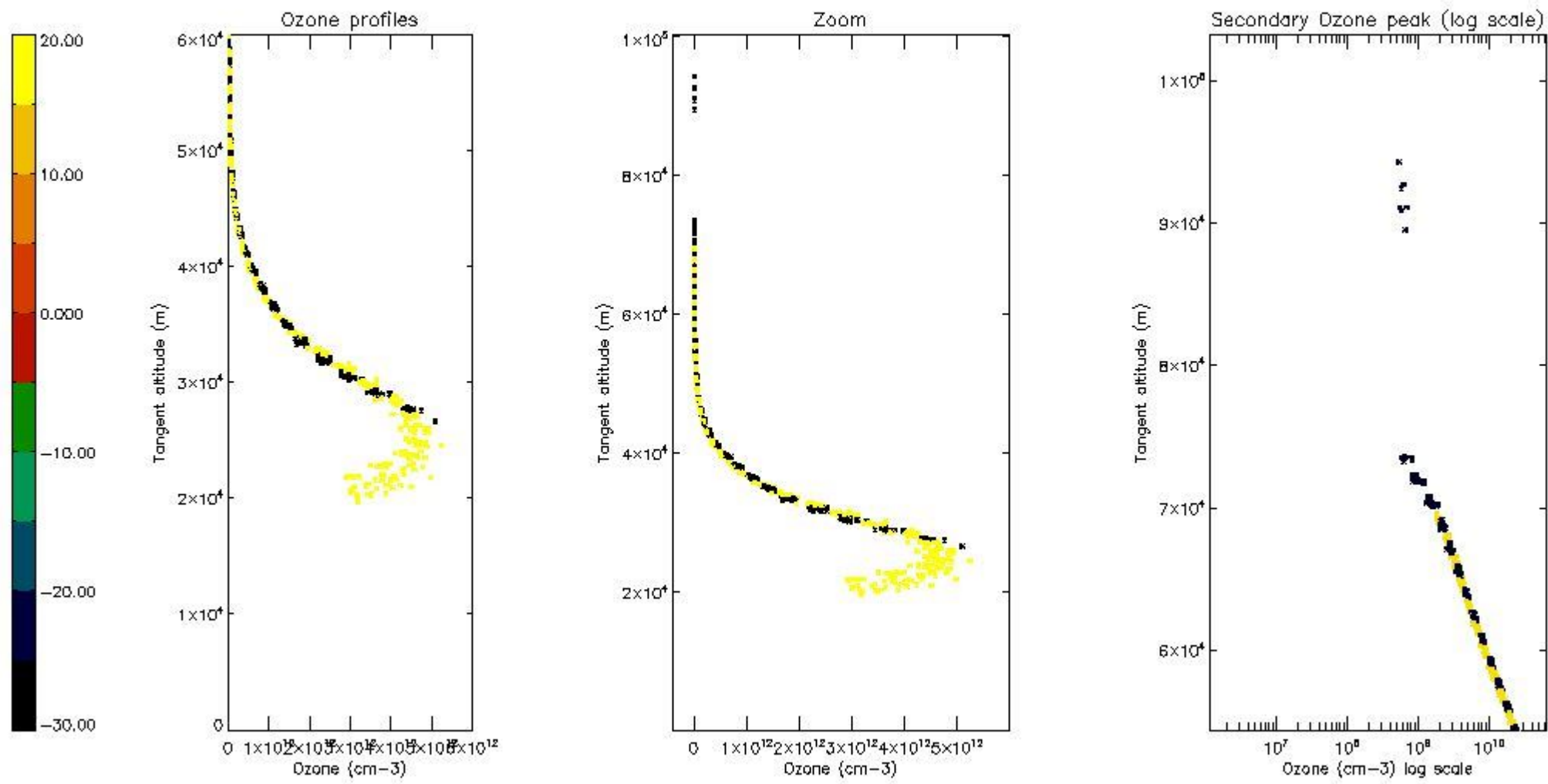
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



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

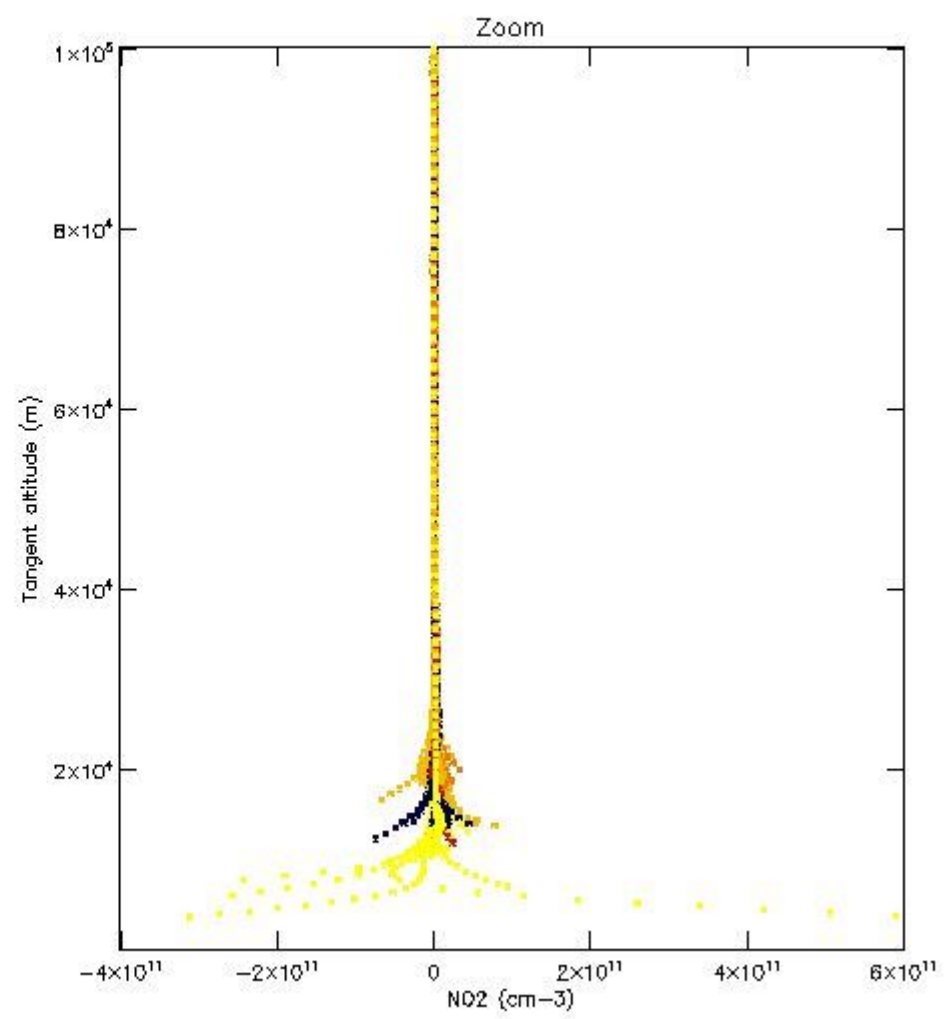
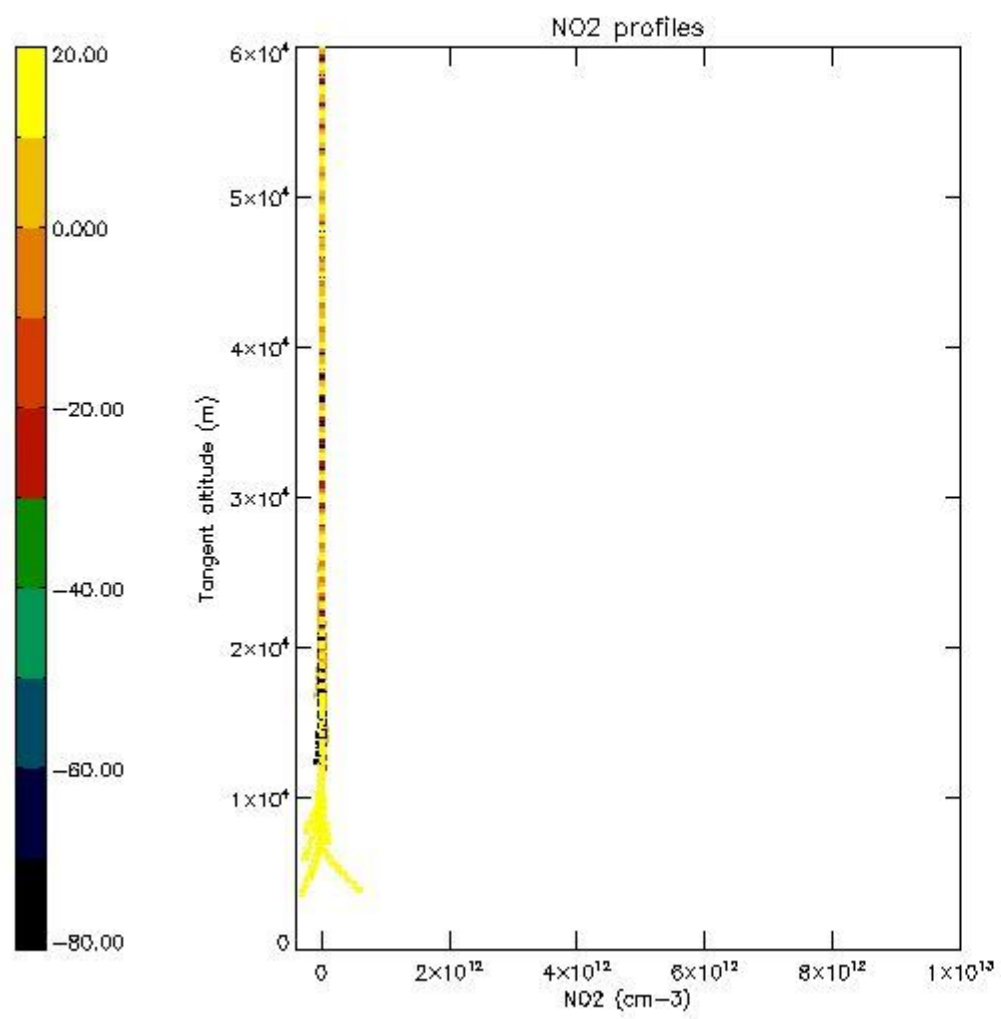
The colorbar represents the latitude.



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

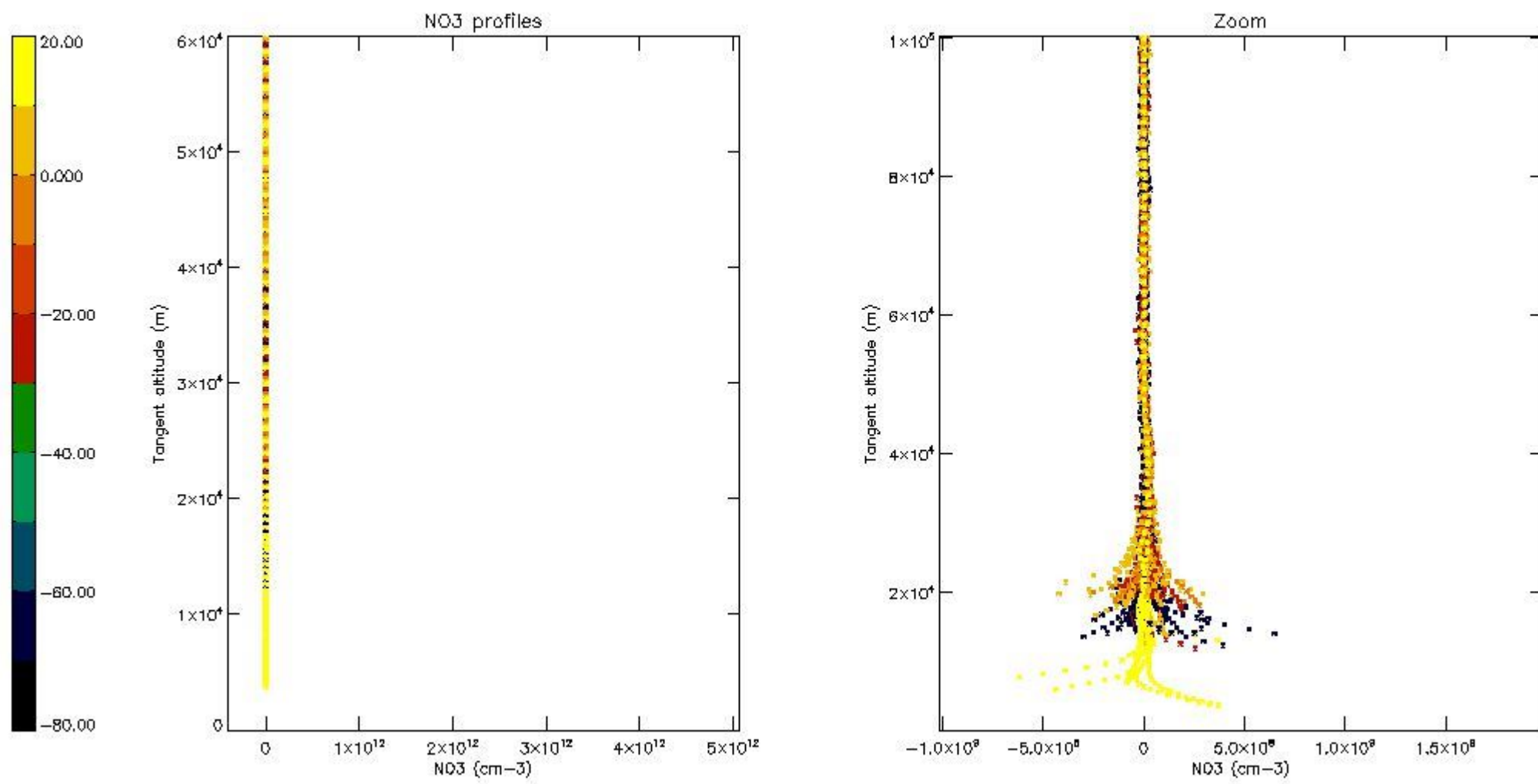
The colorbar represents the latitude.





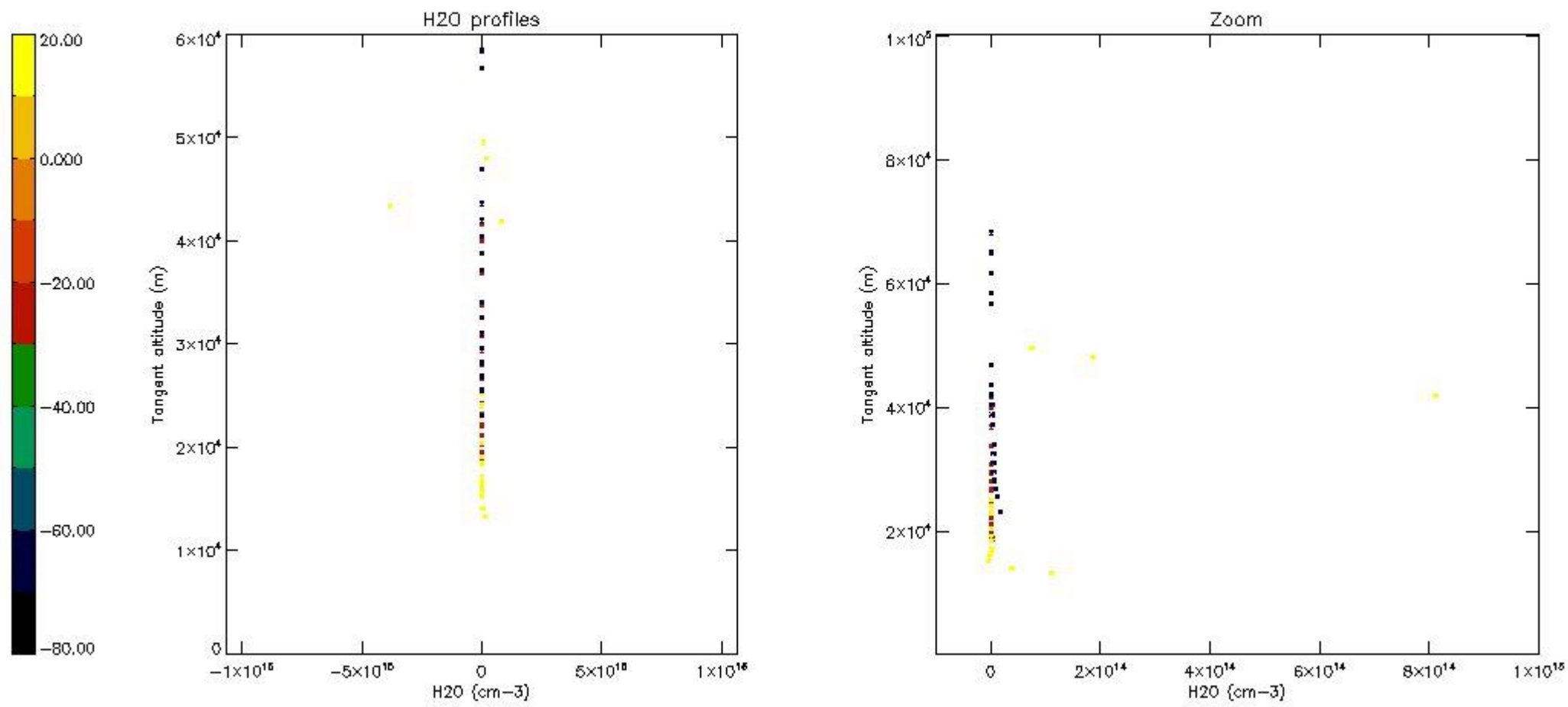
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	30-MAR-2007 00:05:01
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	30-MAR-2007 00:05:01
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	30-MAR-2007 00:05:01

# GOMOS Level 2 Daily Report

## SUMMARY

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

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

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#### [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 17:54:27
Data source version	GOMOS/6.01
Start time of products	30-03-2007 (30MAR2007 00:00:00)
Stop time of products	31-03-2007 (31MAR2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	253
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__2PRFIN20070330_000501_000000382056_00445_26551_5211.N1	30-MAR-2007 00:05:01	Dark	38.000	45	Alp Pav	1.9400	26000.	76	26551	No
2	GOM_NL__2PRFIN20070330_001230_000000392056_00446_26552_5364.N1	30-MAR-2007 00:12:30	Dark	38.500	43	Alp TrA	1.9100	4250.0	77	26552	No
3	GOM_NL__2PRFIN20070330_001417_000000392056_00446_26552_5365.N1	30-MAR-2007 00:14:17	Dark	38.500	134	Bet TrA	2.8100	6600.0	77	26552	No
4	GOM_NL__2PRFIN20070330_001657_000000472056_00446_26552_5366.N1	30-MAR-2007 00:16:57	Dark	46.500	4	Alp1Cen	-0.010000	5800.0	93	26552	No
5	GOM_NL__2PRFIN20070330_001922_000000422056_00446_26552_5367.N1	30-MAR-2007 00:19:22	Straylight	42.000	12	Alp1Cru	0.77500	30000.	84	26552	No
6	GOM_NL__2PRFIN20070330_002048_000000432056_00446_26552_5368.N1	30-MAR-2007 00:20:48	Straylight	43.000	26	Gam Cru	1.6240	2900.0	86	26552	No
7	GOM_NL__2PRFIN20070330_002242_000000412056_00446_26552_5369.N1	30-MAR-2007 00:22:42	Straylight	40.500	64	Gam Cen	2.2000	10600.	81	26552	No
8	GOM_NL__2PRFIN20070330_003044_000000422056_00446_26552_5370.N1	30-MAR-2007 00:30:44	Twilight	41.500	171	2Eps Crv	3.0010	4250.0	83	26552	No
9	GOM_NL__2PRFIN20070330_004337_000000362056_00446_26552_5371.N1	30-MAR-2007 00:43:37	Bright	36.000	96	68Del Leo	2.5600	9300.0	72	26552	No
10	GOM_NL__2PRFIN20070330_005028_000000372056_00446_26552_5372.N1	30-MAR-2007 00:50:28	Bright	37.000	174	52Psi UMa	3.0040	4400.0	74	26552	No
11	GOM_NL__2PRFIN20070330_005348_000000362056_00446_26552_5373.N1	30-MAR-2007 00:53:48	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	26552	No
12	GOM_NL__2PRFIN20070330_005520_000000382056_00446_26552_5374.N1	30-MAR-2007 00:55:20	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	26552	No
13	GOM_NL__2PRFIN20070330_010318_000000352056_00446_26552_5375.N1	30-MAR-2007 01:03:18	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	26552	No
14	GOM_NL__2PRFIN20070330_011103_000000372056_00446_26552_5376.N1	30-MAR-2007 01:11:03	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	26552	No
15	GOM_NL__2PRFIN20070330_012617_000000432056_00446_26552_5377.N1	30-MAR-2007 01:26:17	Bright	42.500	61	8Eps Peg	2.1000	3900.0	85	26552	No
16	GOM_NL__2PRFIN20070330_013049_000000432056_00446_26552_5378.N1	30-MAR-2007 01:30:49	Twilight	43.000	154	22Bet Aqr	2.8990	5700.0	86	26552	No
17	GOM_NL__2PRFIN20070330_013325_000000412056_00446_26552_5379.N1	30-MAR-2007 01:33:25	Dark	40.500	142	49Del Cap	2.8500	8900.0	81	26552	No
18	GOM_NL__2PRFIN20070330_014537_000000382056_00446_26552_5380.N1	30-MAR-2007 01:45:37	Dark	37.500	45	Alp Pav	1.9400	26000.	75	26552	No
19	GOM_NL__2PRFIN20070330_015306_000000402056_00447_26553_5375.N1	30-MAR-2007 01:53:06	Dark	39.500	43	Alp TrA	1.9100	4250.0	79	26553	No
20	GOM_NL__2PRFIN20070330_015453_000000392056_00447_26553_5376.N1	30-MAR-2007 01:54:53	Dark	38.500	134	Bet TrA	2.8100	6600.0	77	26553	No
21	GOM_NL__2PRFIN20070330_015734_000000452056_00447_26553_5377.N1	30-MAR-2007 01:57:34	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	26553	No
22	GOM_NL__2PRFIN20070330_015958_000000442056_00447_26553_5378.N1	30-MAR-2007 01:59:58	Straylight	44.000	12	Alp1Cru	0.77500	30000.	88	26553	No
23	GOM_NL__2PRFIN20070330_020124_000000462056_00447_26553_5379.N1	30-MAR-2007 02:01:24	Straylight	46.000	26	Gam Cru	1.6240	2900.0	92	26553	No
24	GOM_NL__2PRFIN20070330_020319_000000402056_00447_26553_5380.N1	30-MAR-2007 02:03:19	Straylight	39.500	64	Gam Cen	2.2000	10600.	79	26553	No
25	GOM_NL__2PRFIN20070330_021120_000000452056_00447_26553_5381.N1	30-MAR-2007 02:11:20	Twilight	44.500	171	2Eps Crv	3.0010	4250.0	89	26553	No
26	GOM_NL__2PRFIN20070330_022413_000000382056_00447_26553_5382.N1	30-MAR-2007 02:24:13	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	26553	No
27	GOM_NL__2PRFIN20070330_023104_000000362056_00447_26553_5383.N1	30-MAR-2007 02:31:04	Bright	36.000	174	52Psi UMa	3.0040	4400.0	72	26553	No
28	GOM_NL__2PRFIN20070330_023424_000000352056_00447_26553_5384.N1	30-MAR-2007 02:34:24	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	26553	No
29	GOM_NL__2PRFIN20070330_023555_000000372056_00447_26553_5385.N1	30-MAR-2007 02:35:55	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	26553	No
30	GOM_NL__2PRFIN20070330_024354_000000352056_00447_26553_5386.N1	30-MAR-2007 02:43:54	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	26553	No
31	GOM_NL__2PRFIN20070330_025139_000000362056_00447_26553_5387.N1	30-MAR-2007 02:51:39	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	26553	No
32	GOM_NL__2PRFIN20070330_030653_000000532056_00447_26553_5388.N1	30-MAR-2007 03:06:53	Bright	53.000	61	8Eps Peg	2.1000	3900.0	106	26553	No
33	GOM_NL__2PRFIN20070330_031126_000000422056_00447_26553_5389.N1	30-MAR-2007 03:11:26	Twilight	42.000	154	22Bet Aqr	2.8990	5700.0	84	26553	No
34	GOM_NL__2PRFIN20070330_031402_000000412056_00447_26553_5390.N1	30-MAR-2007 03:14:02	Dark	40.500	142	49Del Cap	2.8500	8900.0	81	26553	No
35	GOM_NL__2PRFIN20070330_032614_000000392056_00447_26553_5391.N1	30-MAR-2007 03:26:14	Dark	38.500	45	Alp Pav	1.9400	26000.	77	26553	No
36	GOM_NL__2PRFIN20070330_033343_000000392056_00448_26554_5391.N1	30-MAR-2007 03:33:43	Dark	38.500	43	Alp TrA	1.9100	4250.0	77	26554	No
37	GOM_NL__2PRFIN20070330_033530_000000402056_00448_26554_5392.N1	30-MAR-2007 03:35:30	Dark	39.500	134	Bet TrA	2.8100	6600.0	79	26554	No
38	GOM_NL__2PRFIN20070330_033810_000000442056_00448_26554_5393.N1	30-MAR-2007 03:38:10	Dark	43.500	4	Alp1Cen	-0.010000	5800.0	87	26554	No
39	GOM_NL__2PRFIN20070330_034035_000000412056_00448_26554_5394.N1	30-MAR-2007 03:40:35	Straylight	40.500	12	Alp1Cru	0.77500	30000.	81	26554	No
40	GOM_NL__2PRFIN20070330_034200_000000432056_00448_26554_5395.N1	30-MAR-2007 03:42:00	Straylight	42.500	26	Gam Cru	1.6240	2900.0	85	26554	No
41	GOM_NL__2PRFIN20070330_034355_000000392056_00448_26554_5396.N1	30-MAR-2007 03:43:55	Straylight	38.500	64	Gam Cen	2.2000	10600.	77	26554	No
42	GOM_NL__2PRFIN20070330_035156_000000452056_00448_26554_5397.N1	30-MAR-2007 03:51:56	Twilight	45.000	171	2Eps Crv	3.0010	4250.0	90	26554	No







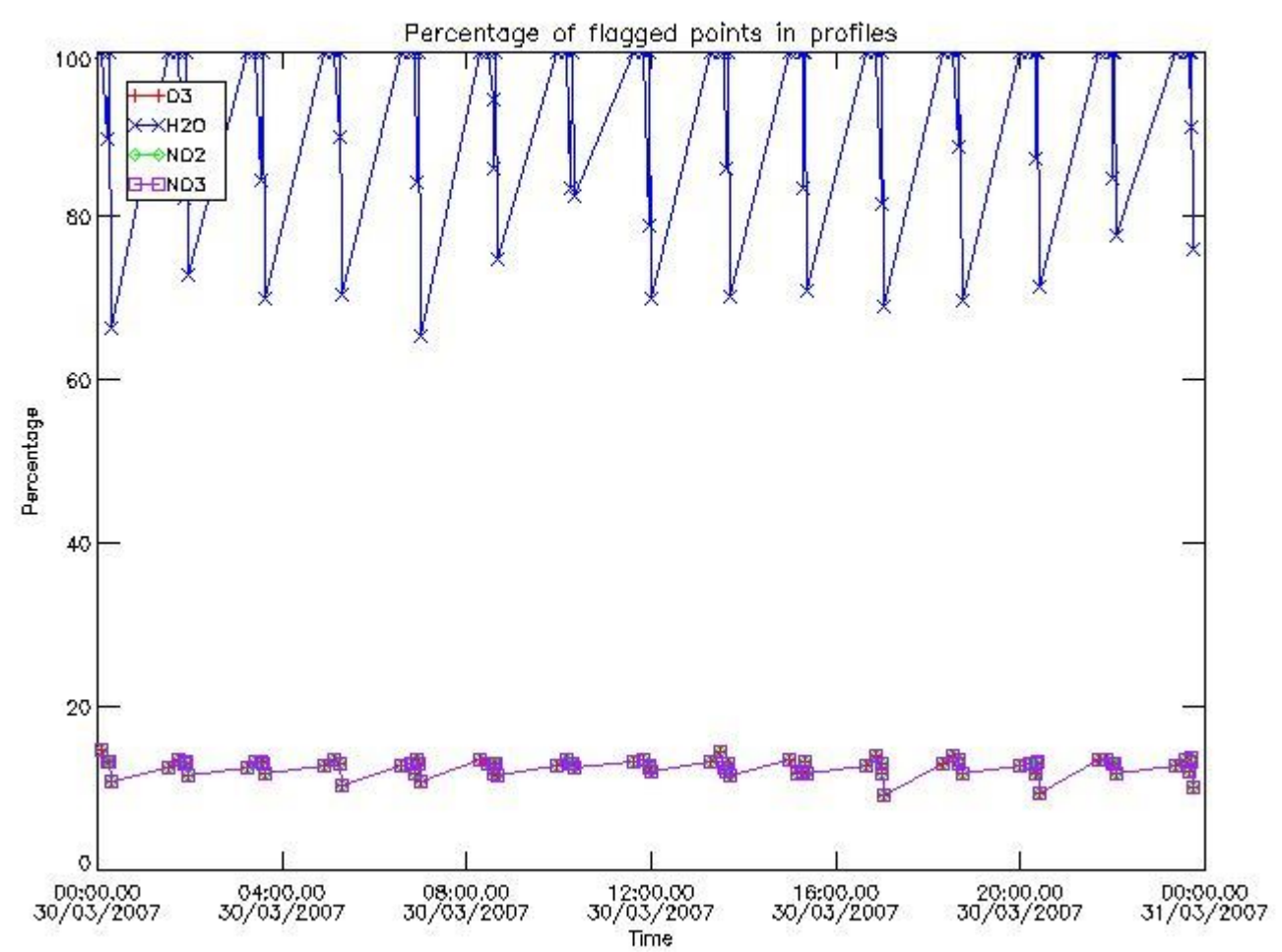


220	GOM_NL__2PRFIN20070330_210058_000000362056_00458_26564_5628.N1	30-MAR-2007 21:00:58	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	26564	No
221	GOM_NL__2PRFIN20070330_210230_000000372056_00458_26564_5629.N1	30-MAR-2007 21:02:30	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	26564	No
222	GOM_NL__2PRFIN20070330_211030_000000372056_00458_26564_5630.N1	30-MAR-2007 21:10:30	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	26564	No
223	GOM_NL__2PRFIN20070330_211813_000000542056_00458_26564_5631.N1	30-MAR-2007 21:18:13	Bright	54.000	89	5Alp Cep	2.4510	8000.0	108	26564	No
224	GOM_NL__2PRFIN20070330_213331_000000412056_00458_26564_5632.N1	30-MAR-2007 21:33:31	Bright	41.000	61	8Eps Peg	2.1000	3900.0	82	26564	No
225	GOM_NL__2PRFIN20070330_213805_000000442056_00458_26564_5633.N1	30-MAR-2007 21:38:05	Twilight	43.500	154	22Bet Aqr	2.8990	5700.0	87	26564	No
226	GOM_NL__2PRFIN20070330_214040_000000422056_00458_26564_5634.N1	30-MAR-2007 21:40:40	Dark	41.500	142	49Del Cap	2.8500	8900.0	83	26564	No
227	GOM_NL__2PRFIN20070330_215253_000000382056_00458_26564_5635.N1	30-MAR-2007 21:52:53	Dark	37.500	45	Alp Pav	1.9400	26000.	75	26564	No
228	GOM_NL__2PRFIN20070330_215904_000000432056_00459_26565_5629.N1	30-MAR-2007 21:59:04	Dark	43.000	141	Bet Ara	2.8400	4600.0	86	26565	No
229	GOM_NL__2PRFIN20070330_220022_000000402056_00459_26565_5630.N1	30-MAR-2007 22:00:22	Dark	39.500	43	Alp TrA	1.9100	4250.0	79	26565	No
230	GOM_NL__2PRFIN20070330_220211_000000392056_00459_26565_5631.N1	30-MAR-2007 22:02:11	Dark	39.000	134	Bet TrA	2.8100	6600.0	78	26565	No
231	GOM_NL__2PRFIN20070330_220451_000000432056_00459_26565_5632.N1	30-MAR-2007 22:04:51	Dark	43.000	4	Alp1Cen	-0.010000	5800.0	86	26565	No
232	GOM_NL__2PRFIN20070330_220713_000000422056_00459_26565_5633.N1	30-MAR-2007 22:07:13	Straylight	42.000	12	Alp1Cru	0.77500	30000.	84	26565	No
233	GOM_NL__2PRFIN20070330_220839_000000502056_00459_26565_5634.N1	30-MAR-2007 22:08:39	Straylight	50.000	26	Gam Cru	1.6240	2900.0	100	26565	No
234	GOM_NL__2PRFIN20070330_221034_000000382056_00459_26565_5635.N1	30-MAR-2007 22:10:34	Straylight	38.000	64	Gam Cen	2.2000	10600.	76	26565	No
235	GOM_NL__2PRFIN20070330_221833_000000452056_00459_26565_5636.N1	30-MAR-2007 22:18:33	Twilight	44.500	171	2Eps Crv	3.0010	4250.0	89	26565	No
236	GOM_NL__2PRFIN20070330_223124_000000362056_00459_26565_5637.N1	30-MAR-2007 22:31:24	Bright	35.500	96	68Del Leo	2.5600	9300.0	71	26565	No
237	GOM_NL__2PRFIN20070330_223814_000000352056_00459_26565_5638.N1	30-MAR-2007 22:38:14	Bright	35.000	174	52Psi UMa	3.0040	4400.0	70	26565	No
238	GOM_NL__2PRFIN20070330_224134_000000352056_00459_26565_5639.N1	30-MAR-2007 22:41:34	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	26565	No
239	GOM_NL__2PRFIN20070330_224305_000000362056_00459_26565_5640.N1	30-MAR-2007 22:43:05	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	26565	No
240	GOM_NL__2PRFIN20070330_225106_000000352056_00459_26565_5641.N1	30-MAR-2007 22:51:06	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	26565	No
241	GOM_NL__2PRFIN20070330_225849_000000362056_00459_26565_5642.N1	30-MAR-2007 22:58:49	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	26565	No
242	GOM_NL__2PRFIN20070330_231407_000000472056_00459_26565_5643.N1	30-MAR-2007 23:14:07	Bright	46.500	61	8Eps Peg	2.1000	3900.0	93	26565	No
243	GOM_NL__2PRFIN20070330_231841_000000442056_00459_26565_5644.N1	30-MAR-2007 23:18:41	Twilight	43.500	154	22Bet Aqr	2.8990	5700.0	87	26565	No
244	GOM_NL__2PRFIN20070330_232116_000000402056_00459_26565_5645.N1	30-MAR-2007 23:21:16	Dark	39.500	142	49Del Cap	2.8500	8900.0	79	26565	No
245	GOM_NL__2PRFIN20070330_233329_000000382056_00459_26565_5646.N1	30-MAR-2007 23:33:29	Dark	37.500	45	Alp Pav	1.9400	26000.	75	26565	No
246	GOM_NL__2PRFIN20070330_233940_000000422056_00460_26566_5633.N1	30-MAR-2007 23:39:40	Dark	42.000	141	Bet Ara	2.8400	4600.0	84	26566	No
247	GOM_NL__2PRFIN20070330_234059_000000392056_00460_26566_5634.N1	30-MAR-2007 23:40:59	Dark	38.500	43	Alp TrA	1.9100	4250.0	77	26566	No
248	GOM_NL__2PRFIN20070330_234247_000000372056_00460_26566_5635.N1	30-MAR-2007 23:42:47	Dark	37.000	134	Bet TrA	2.8100	6600.0	74	26566	No
249	GOM_NL__2PRFIN20070330_234527_000000512056_00460_26566_5636.N1	30-MAR-2007 23:45:27	Dark	50.500	4	Alp1Cen	-0.010000	5800.0	101	26566	No
250	GOM_NL__2PRFIN20070330_234749_000000422056_00460_26566_5637.N1	30-MAR-2007 23:47:49	Straylight	41.500	12	Alp1Cru	0.77500	30000.	83	26566	No
251	GOM_NL__2PRFIN20070330_234915_000000422056_00460_26566_5638.N1	30-MAR-2007 23:49:15	Straylight	41.500	26	Gam Cru	1.6240	2900.0	83	26566	No
252	GOM_NL__2PRFIN20070330_235110_000000412056_00460_26566_5639.N1	30-MAR-2007 23:51:10	Straylight	40.500	64	Gam Cen	2.2000	10600.	81	26566	No
253	GOM_NL__2PRFIN20070330_235909_000000432056_00460_26566_5640.N1	30-MAR-2007 23:59:09	Twilight	42.500	171	2Eps Crv	3.0010	4250.0	85	26566	No

### 3. Quality information per product

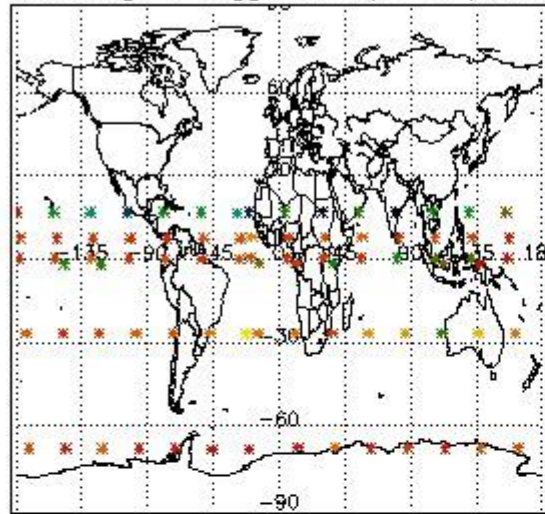
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

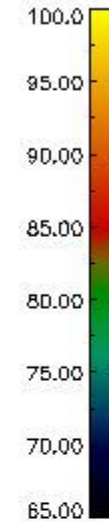
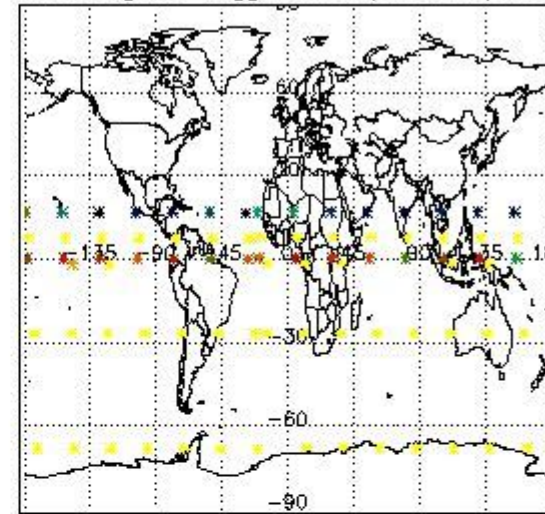


3.2 Plot quality information per product (world map)

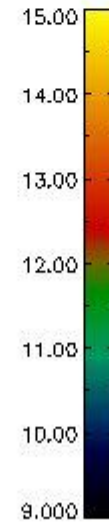
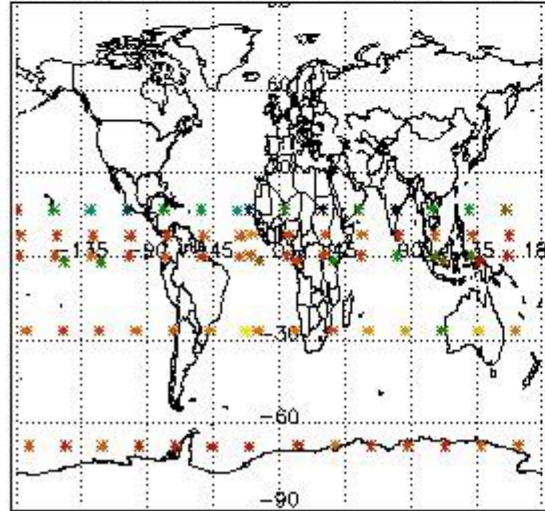
Percentage of flagged data per O3 profile



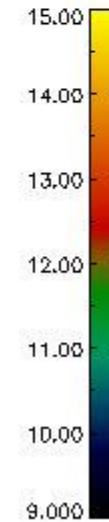
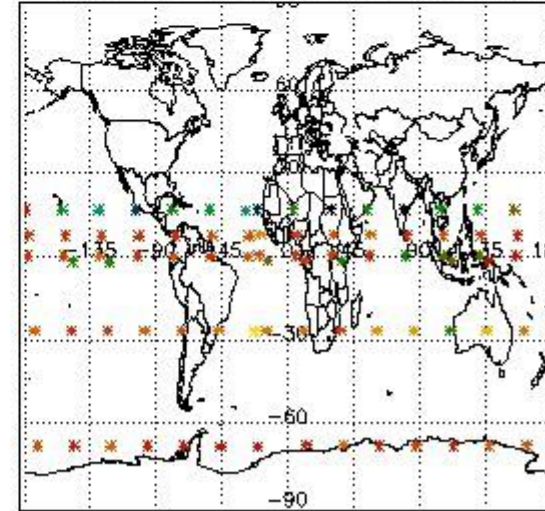
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

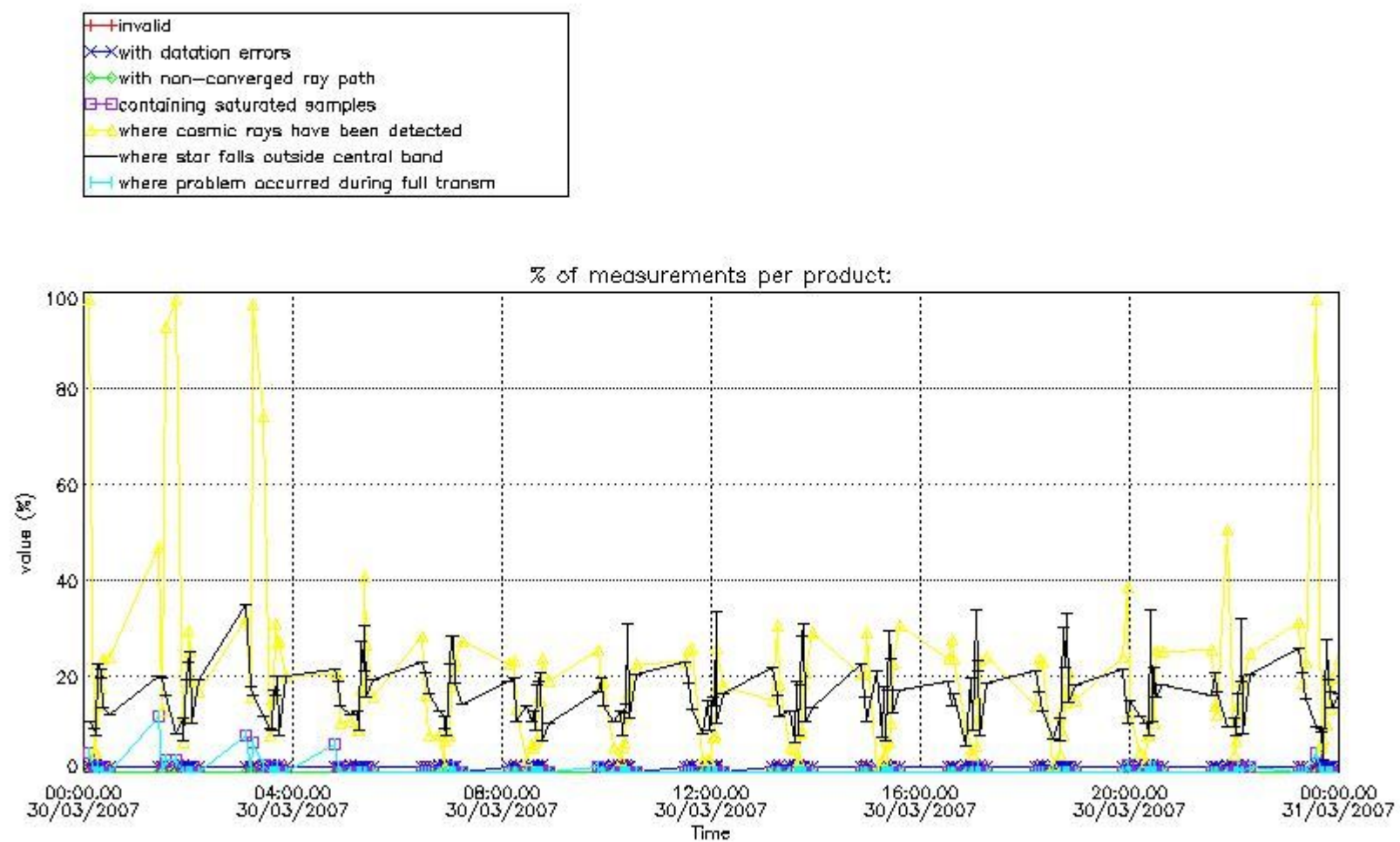


#### 4. Level 1 quality information per product

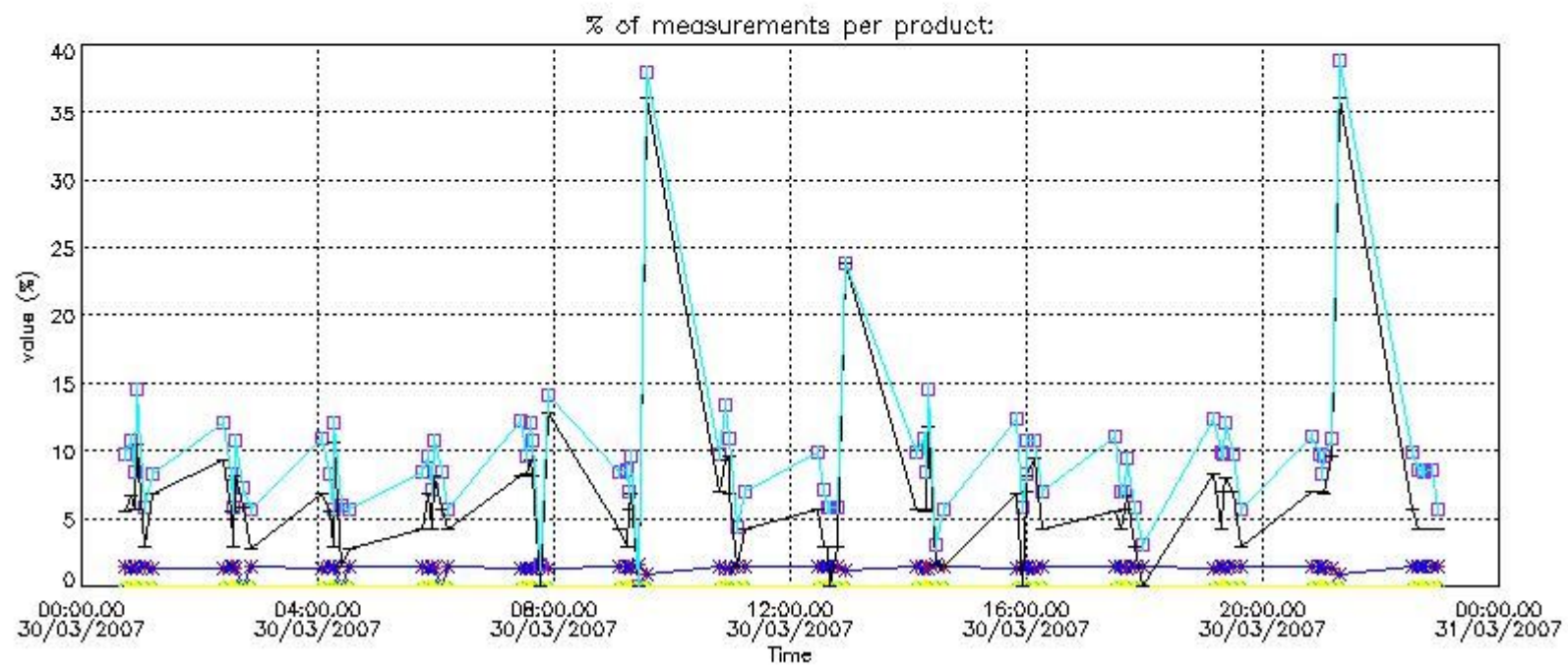
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

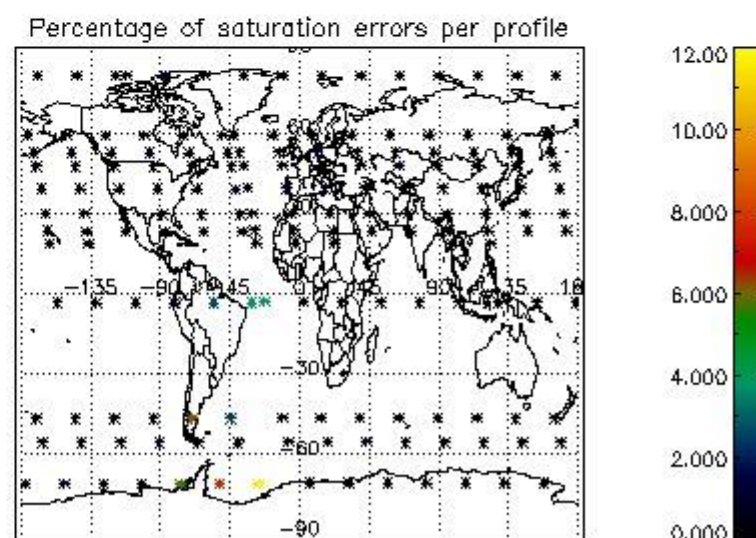
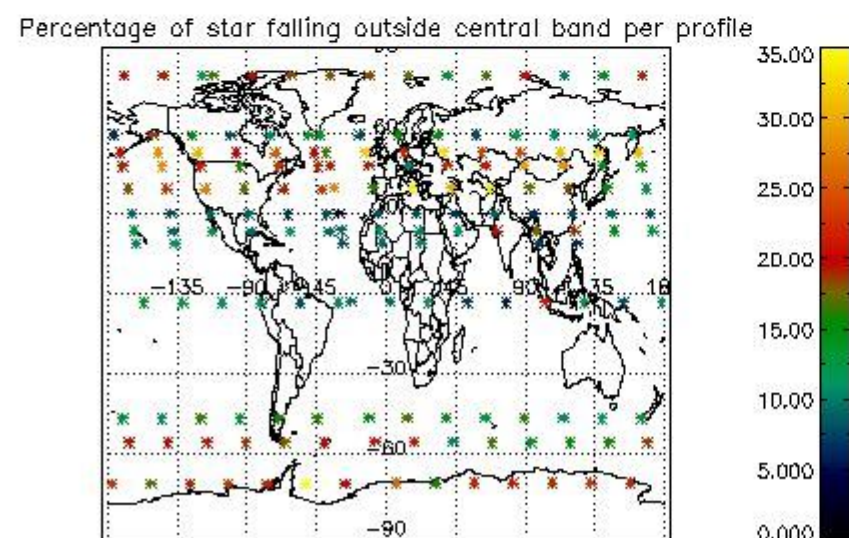
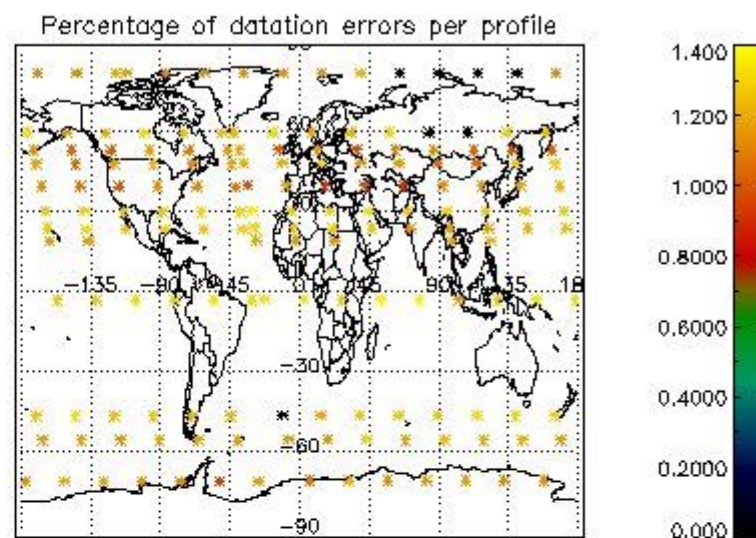
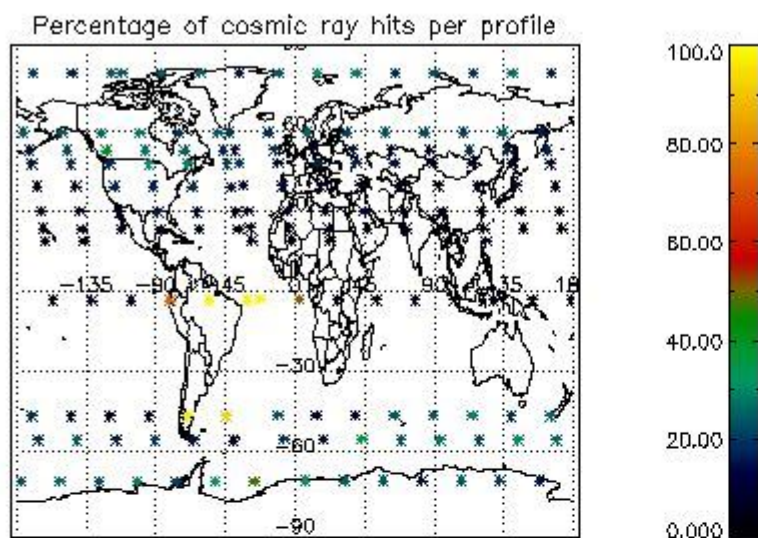


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

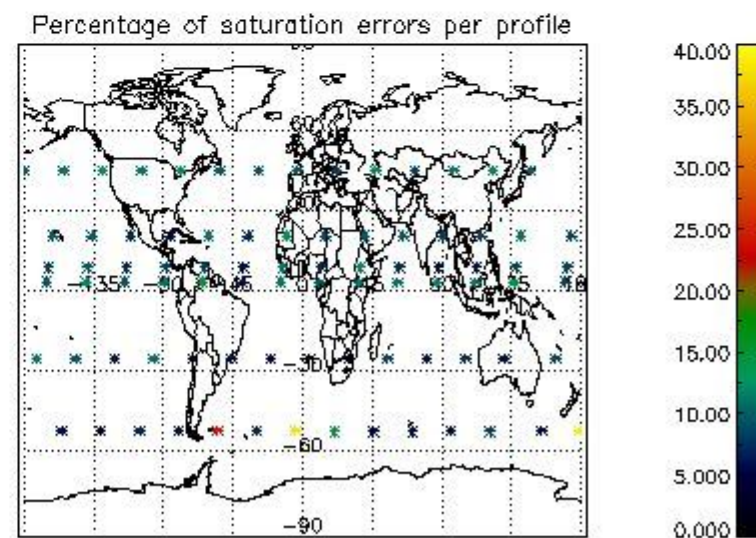
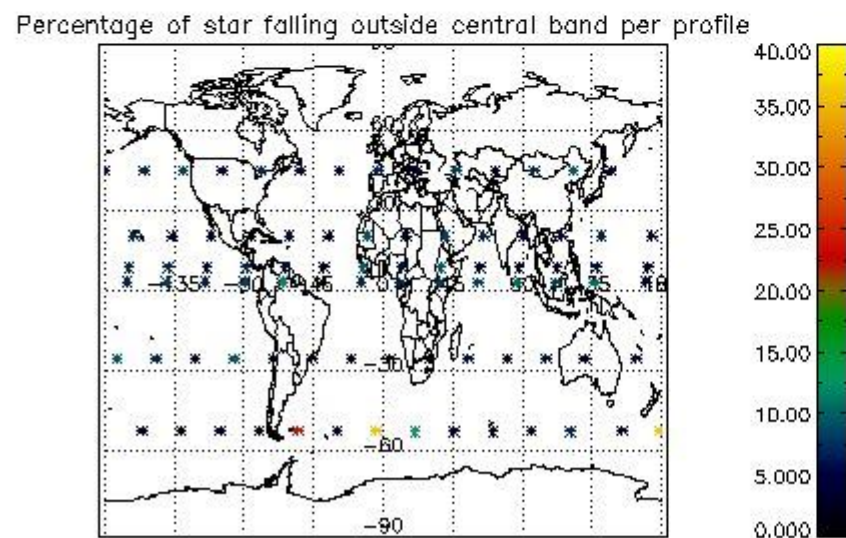
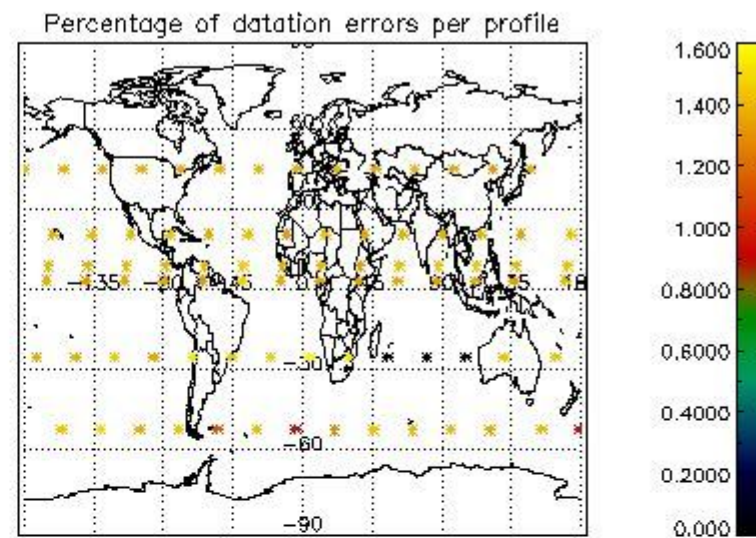
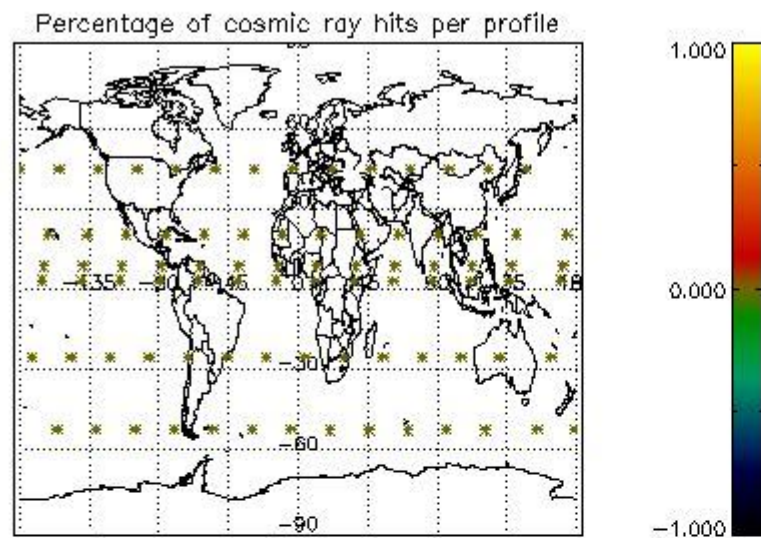


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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



## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

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

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

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

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

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

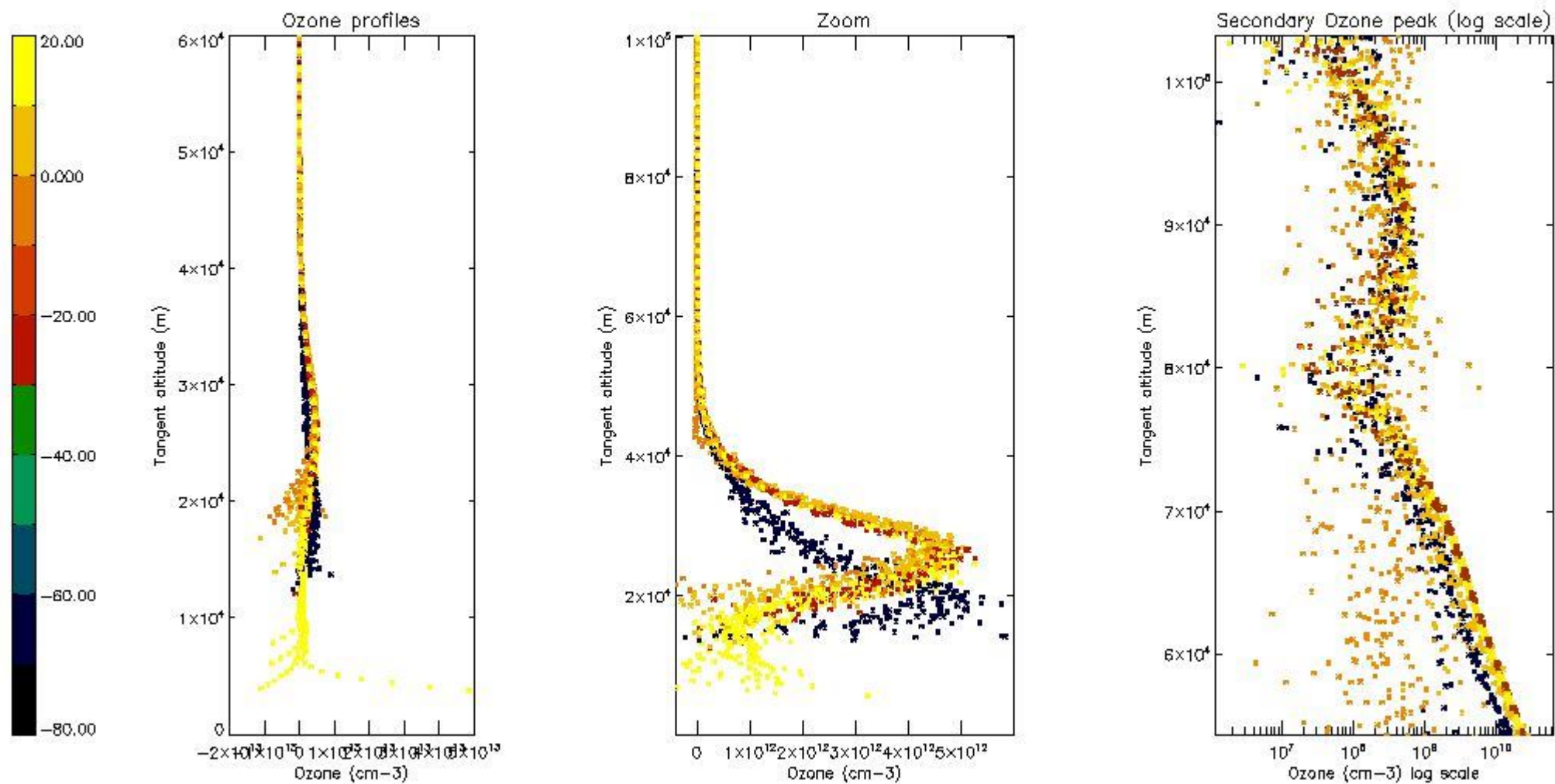
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	33
STD < 20	16

STD < 10	11
STD < 5	6

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

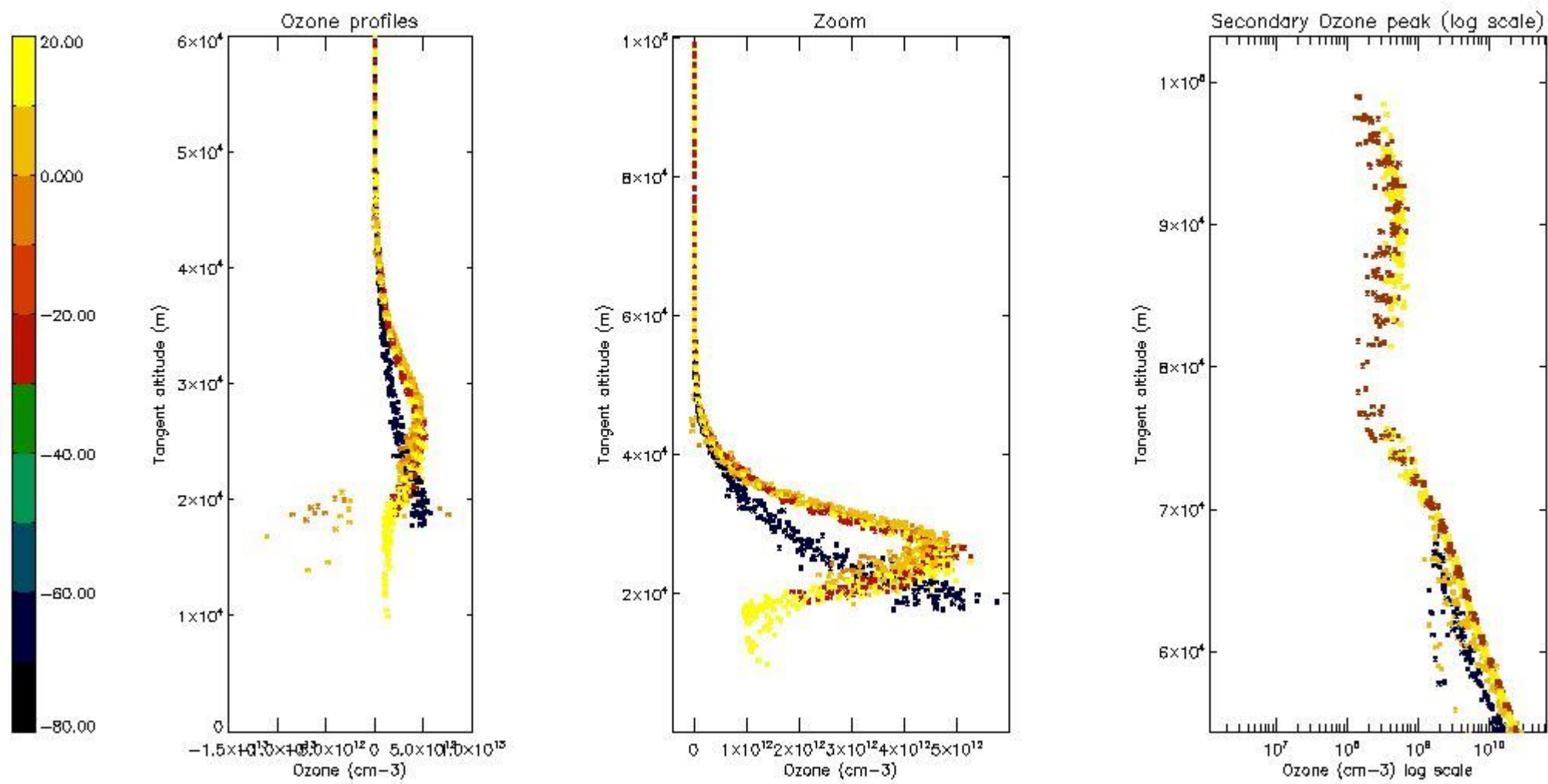
The colorbar represents the latitude.



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

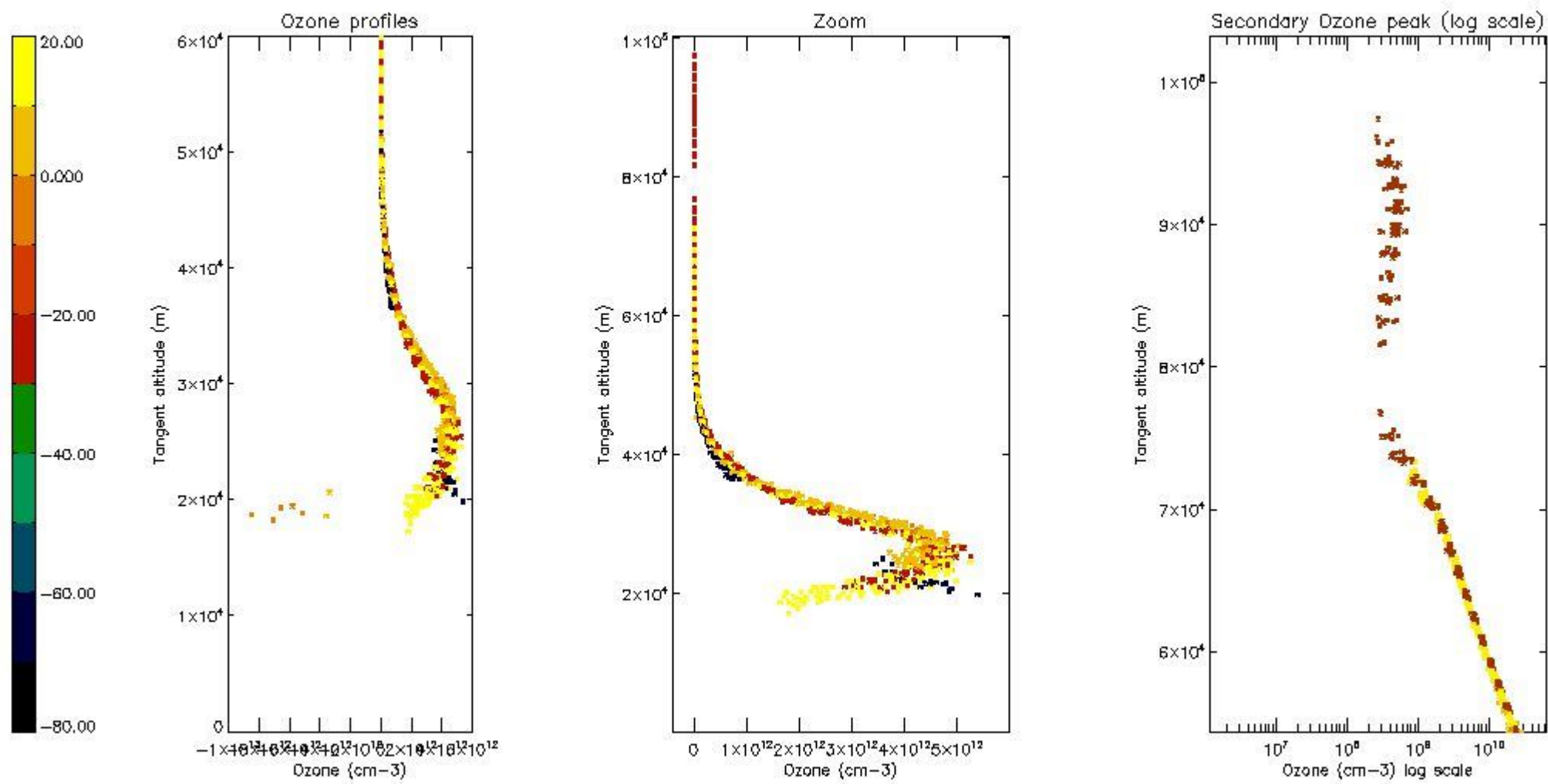
The colorbar represents the latitude.





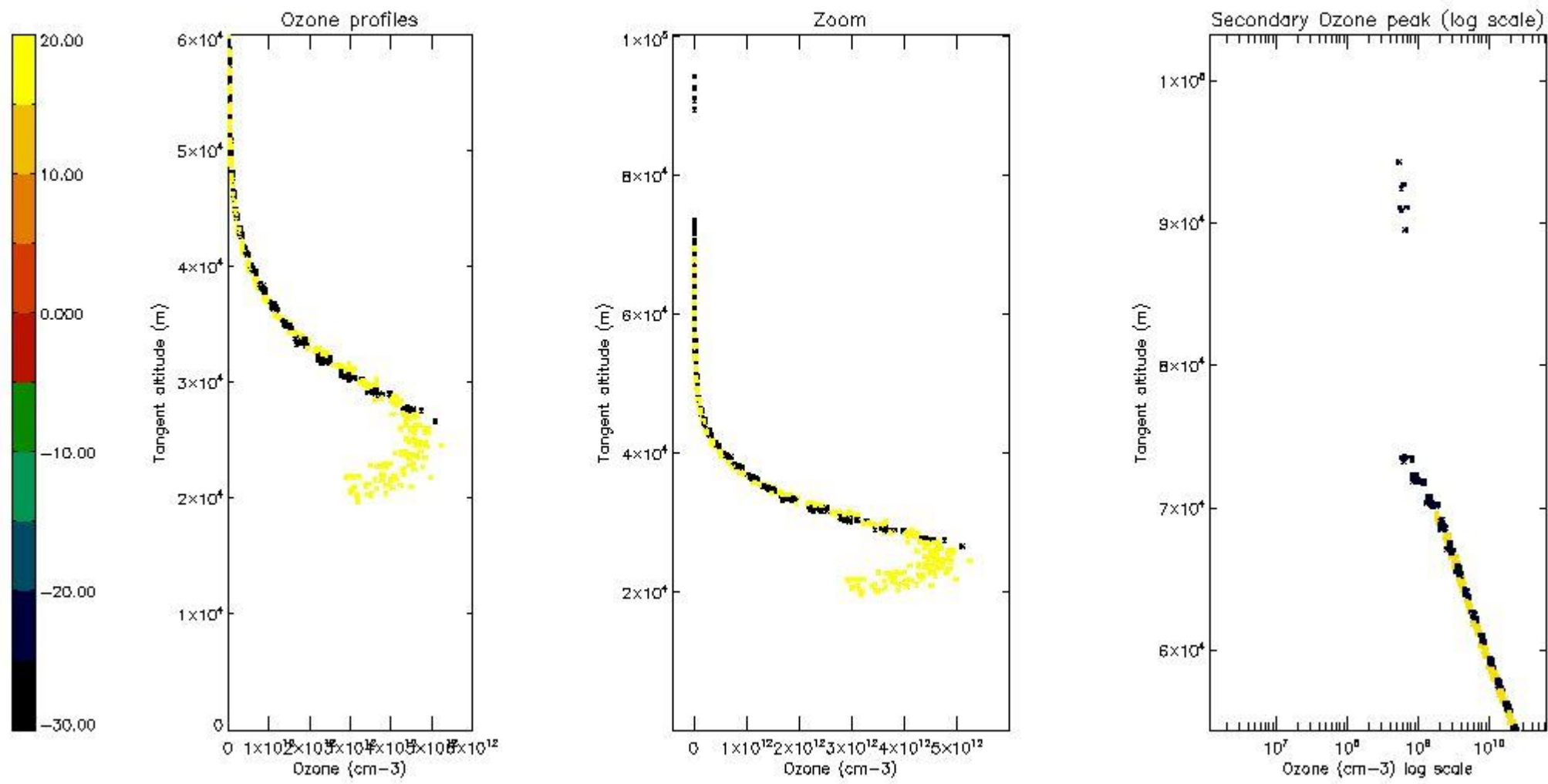
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



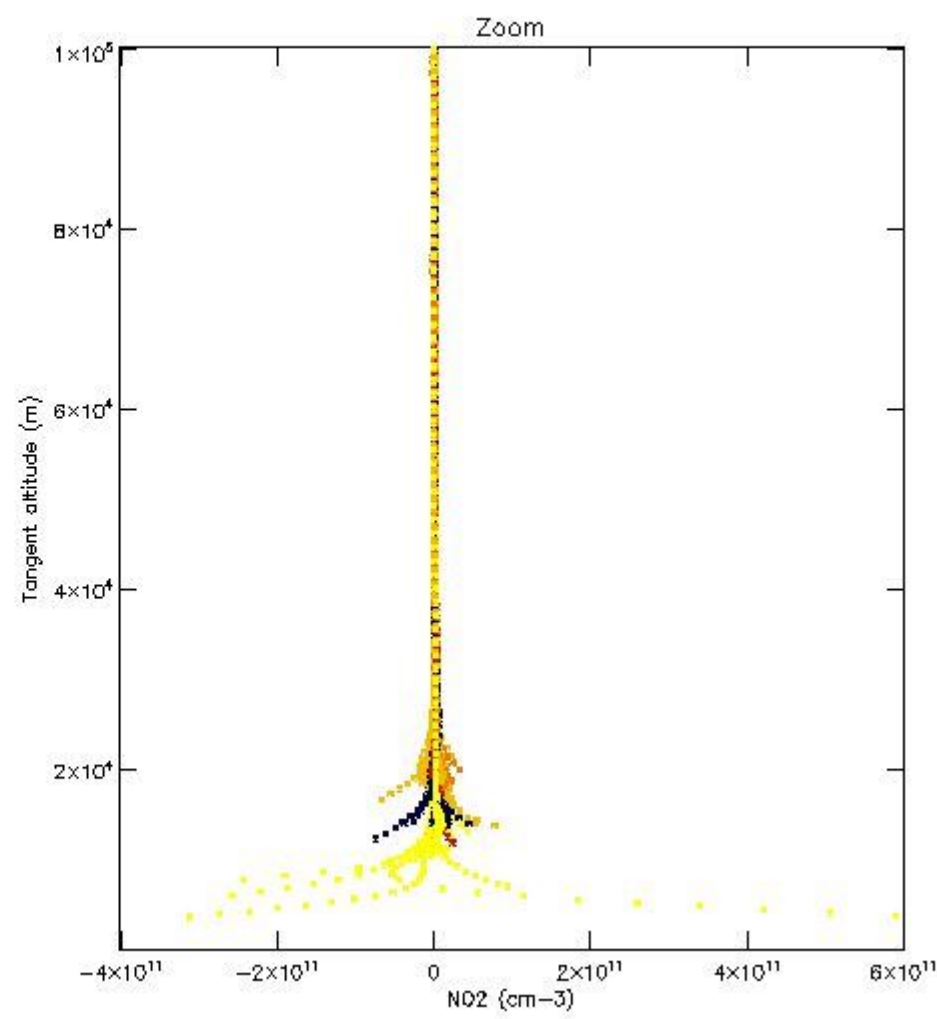
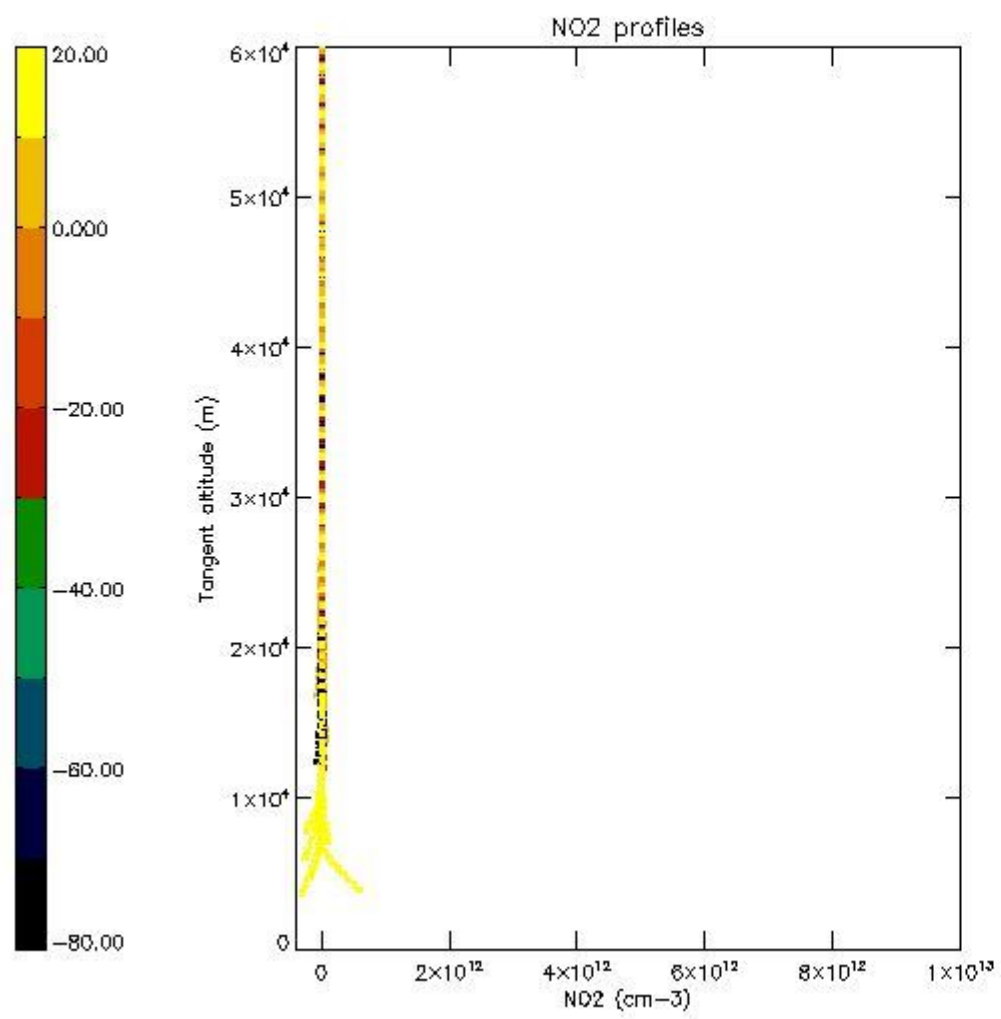
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



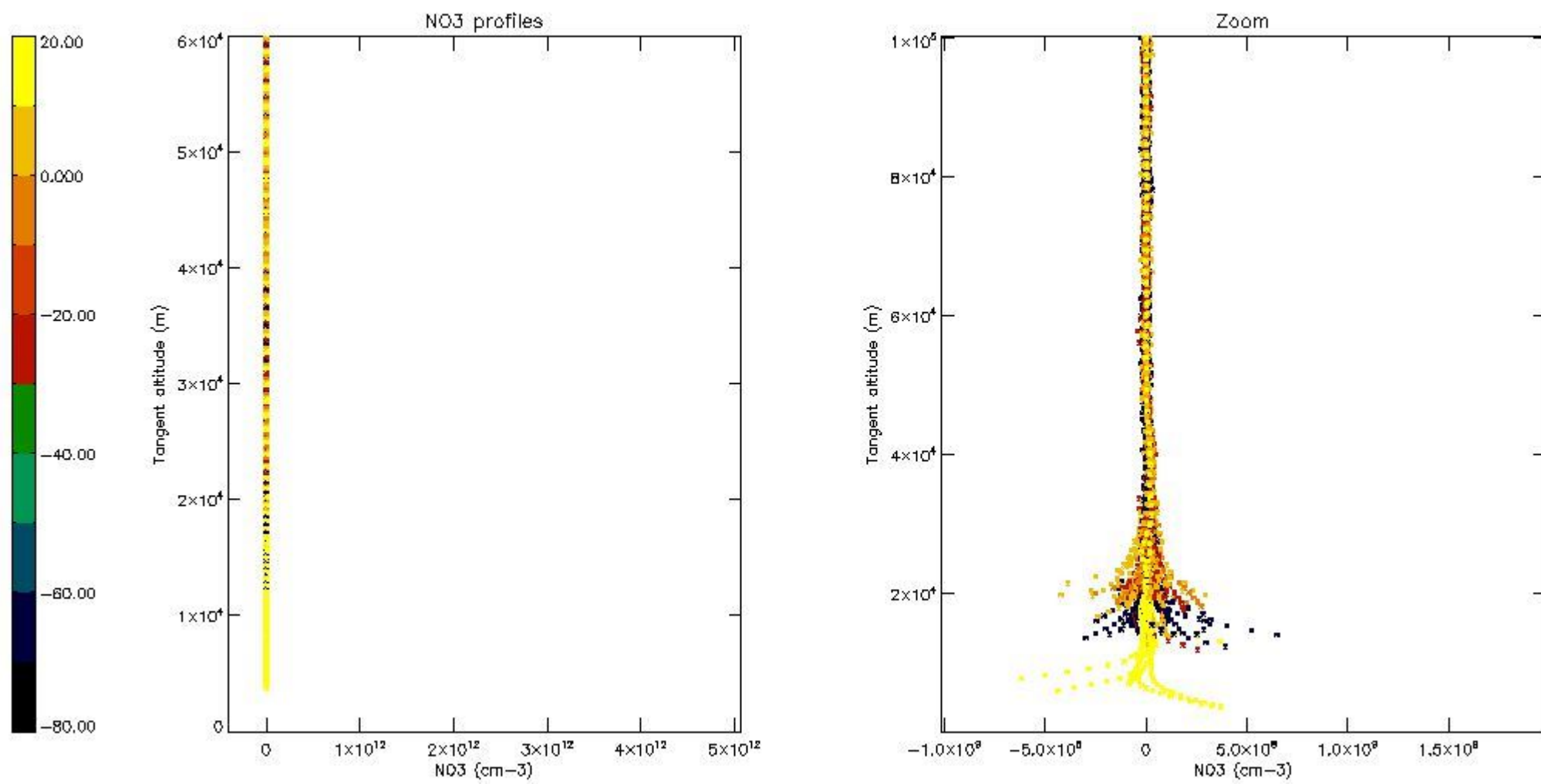
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



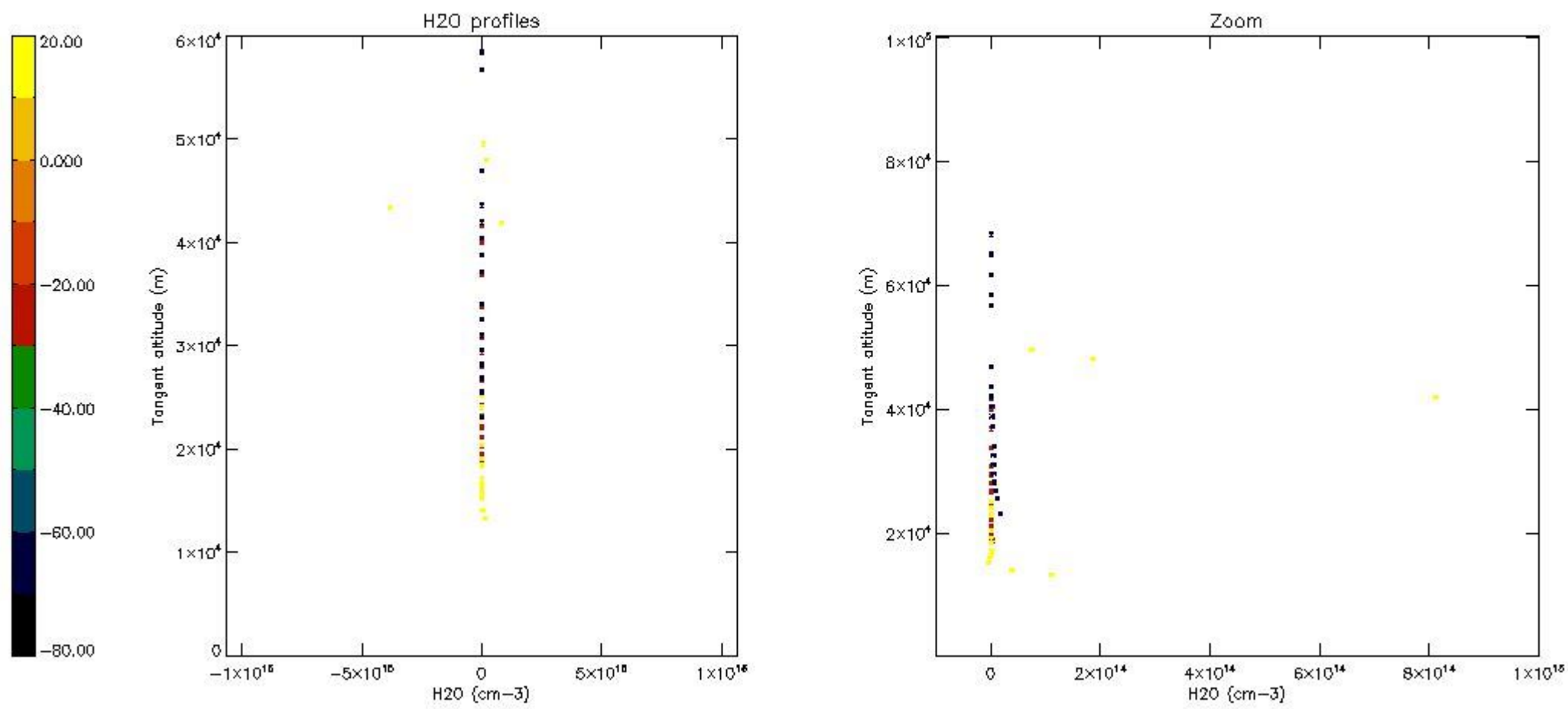
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

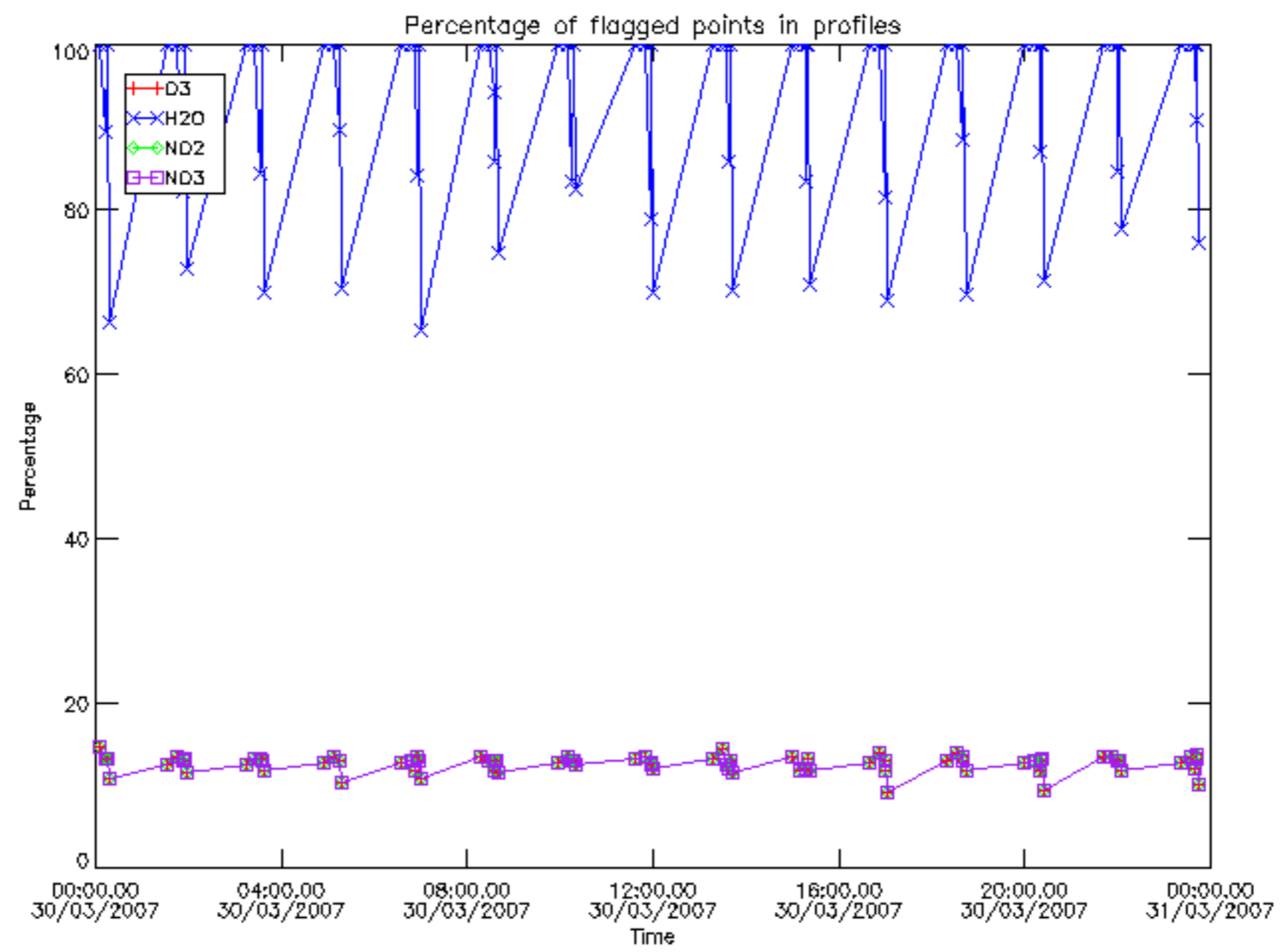
The colorbar represents the latitude.



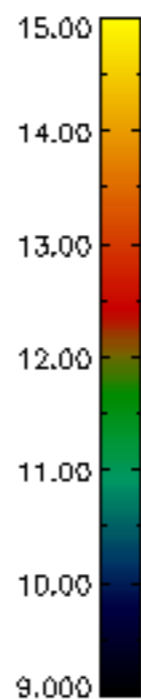
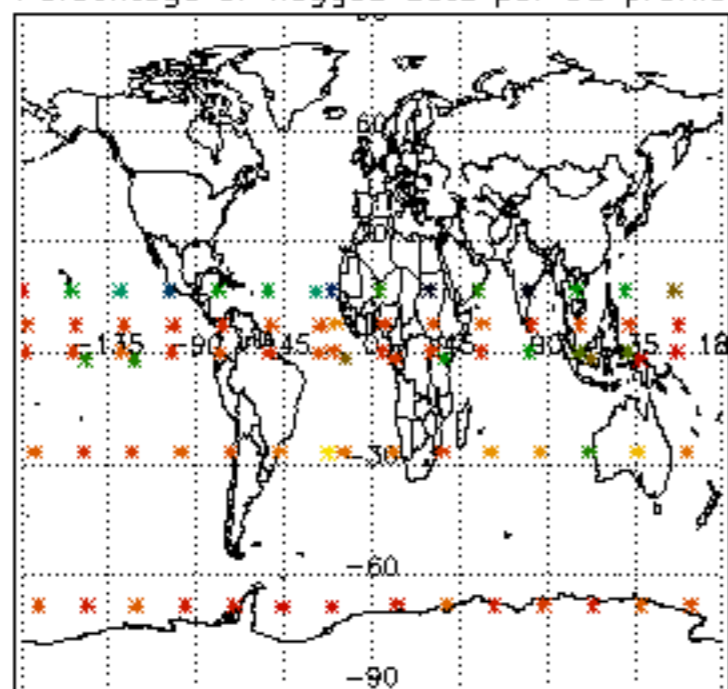
## 6. Auxiliary Data Files used for the production reported in section 2

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

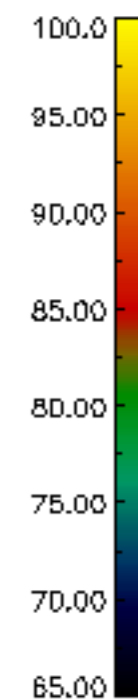
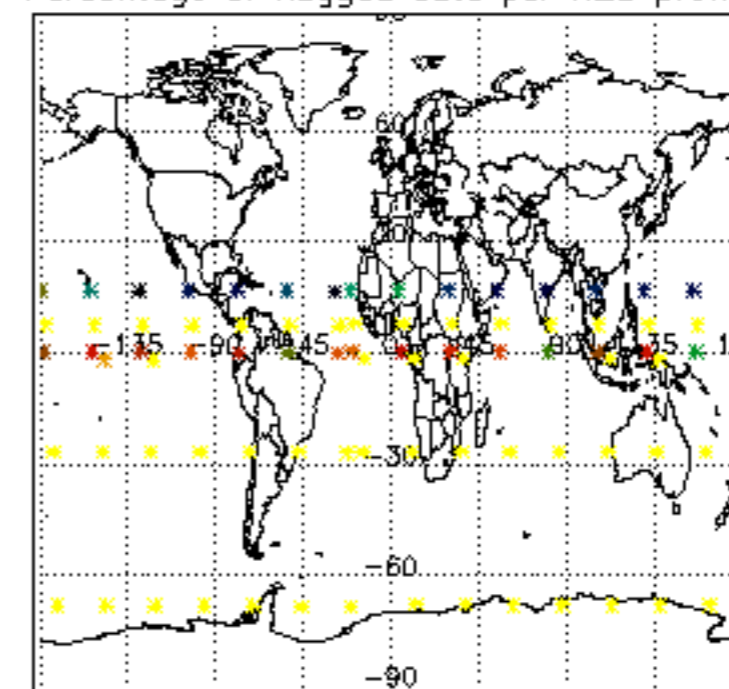
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	30-MAR-2007 00:05:01
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	30-MAR-2007 00:05:01
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	30-MAR-2007 00:05:01



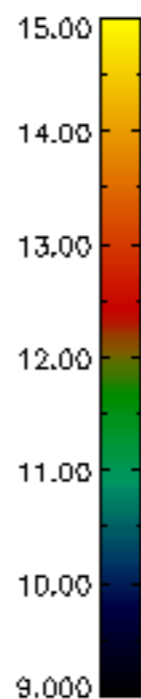
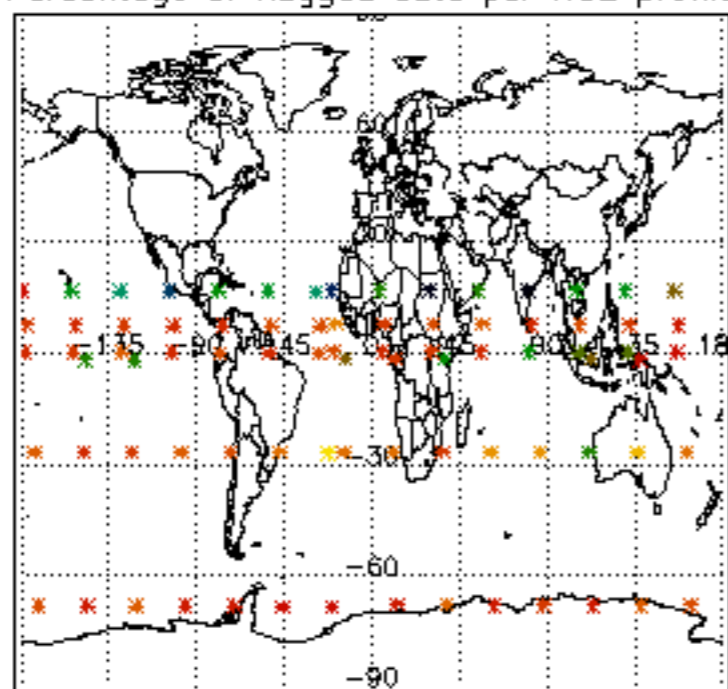
Percentage of flagged data per D3 profile



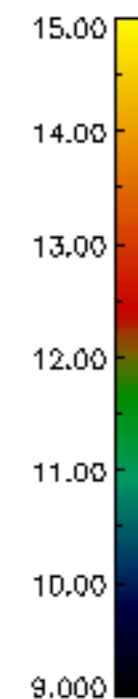
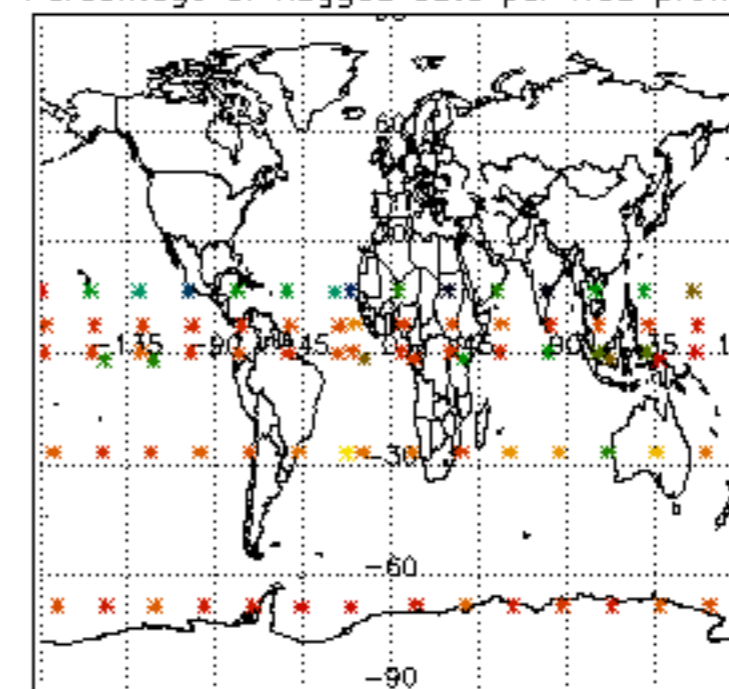
Percentage of flagged data per H2O profile



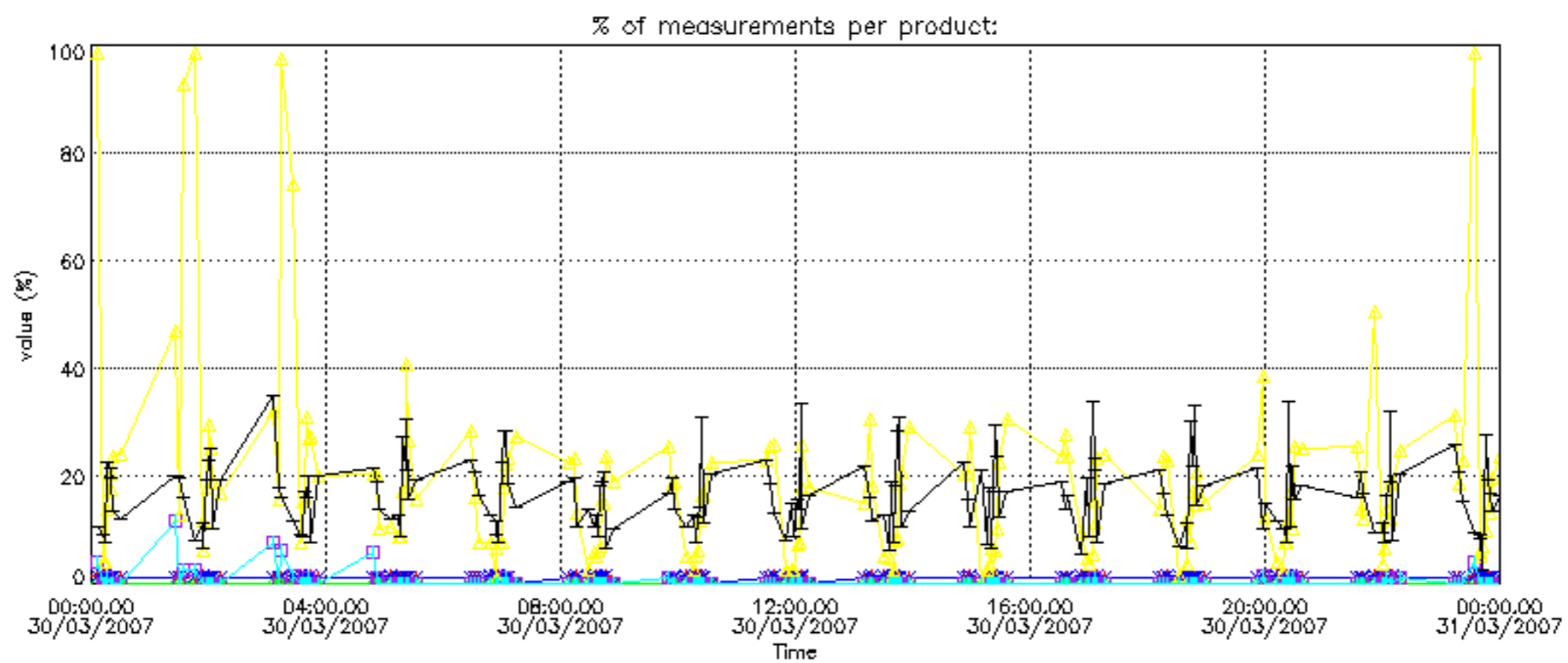
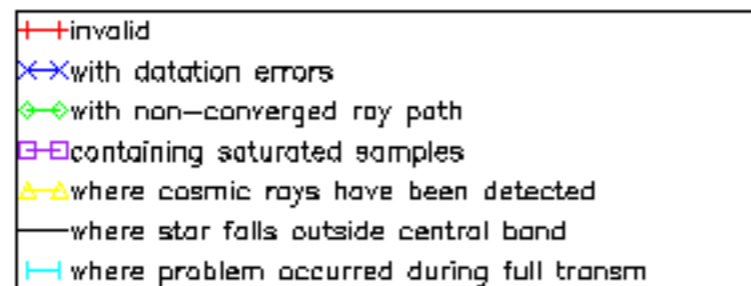
Percentage of flagged data per NO2 profile

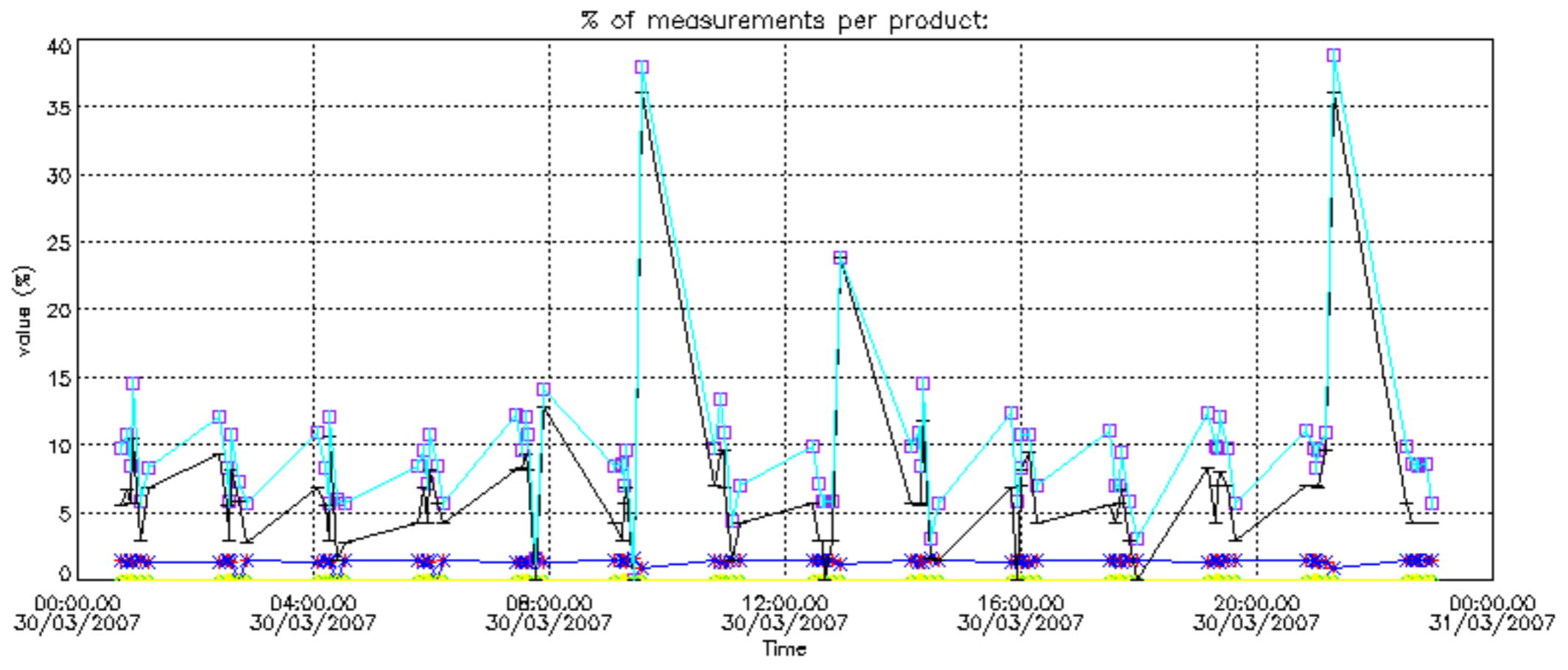


Percentage of flagged data per NO3 profile

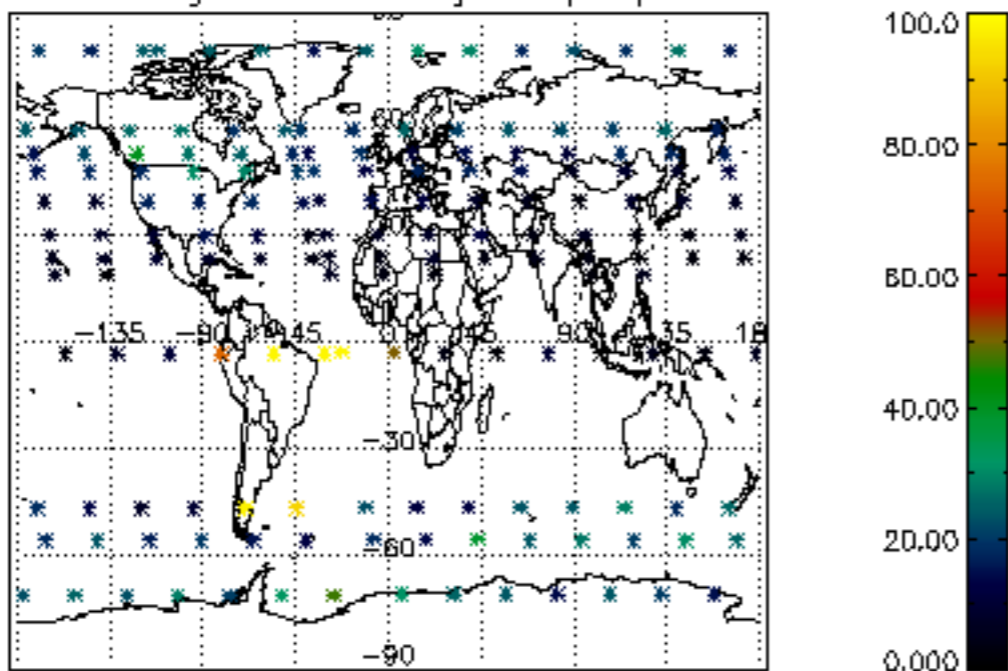




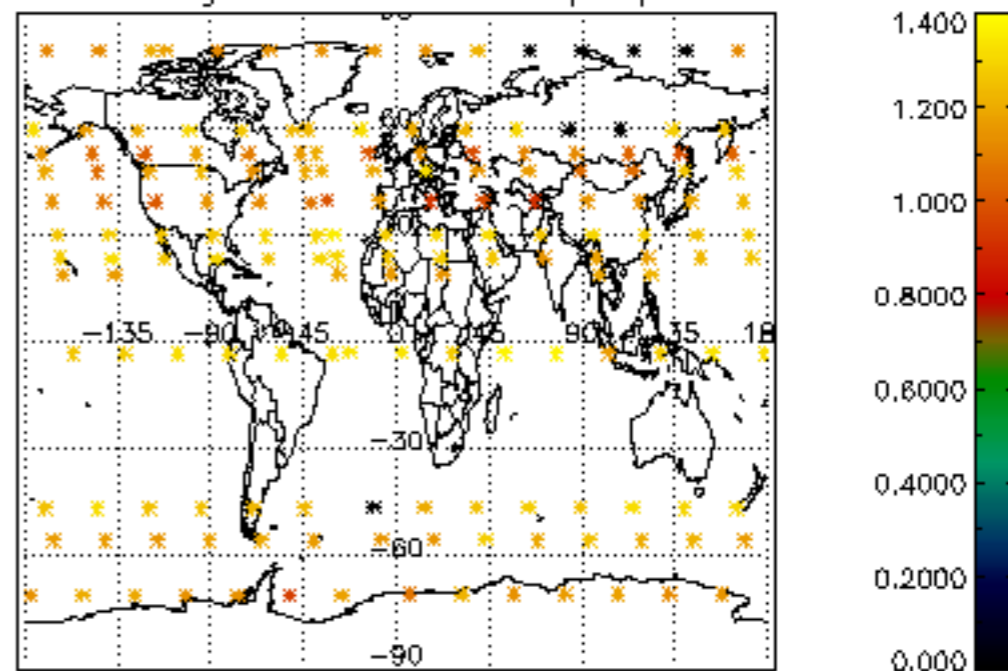




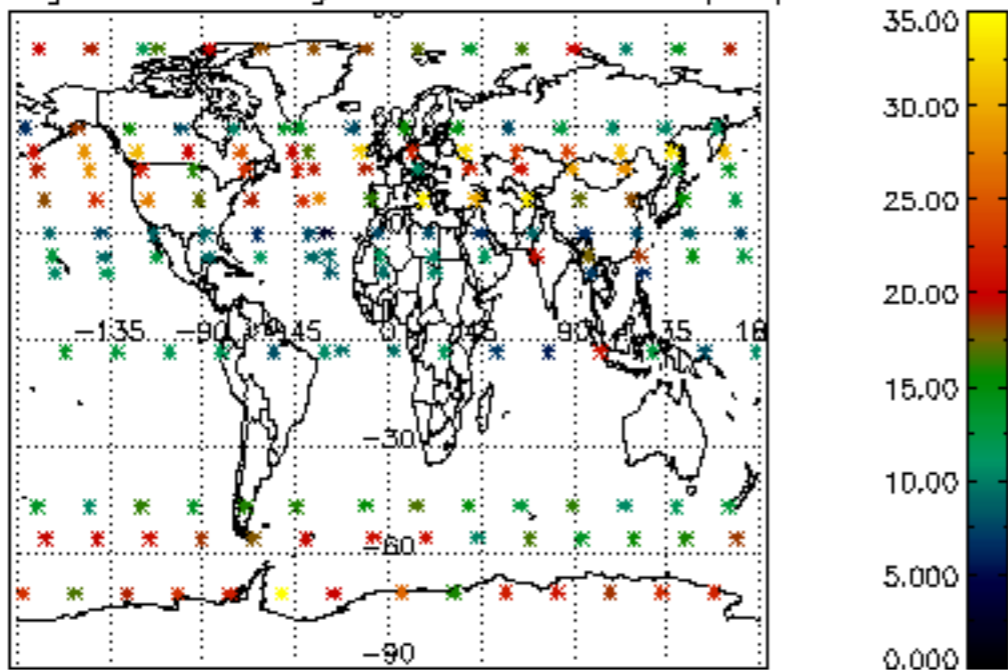
Percentage of cosmic ray hits per profile



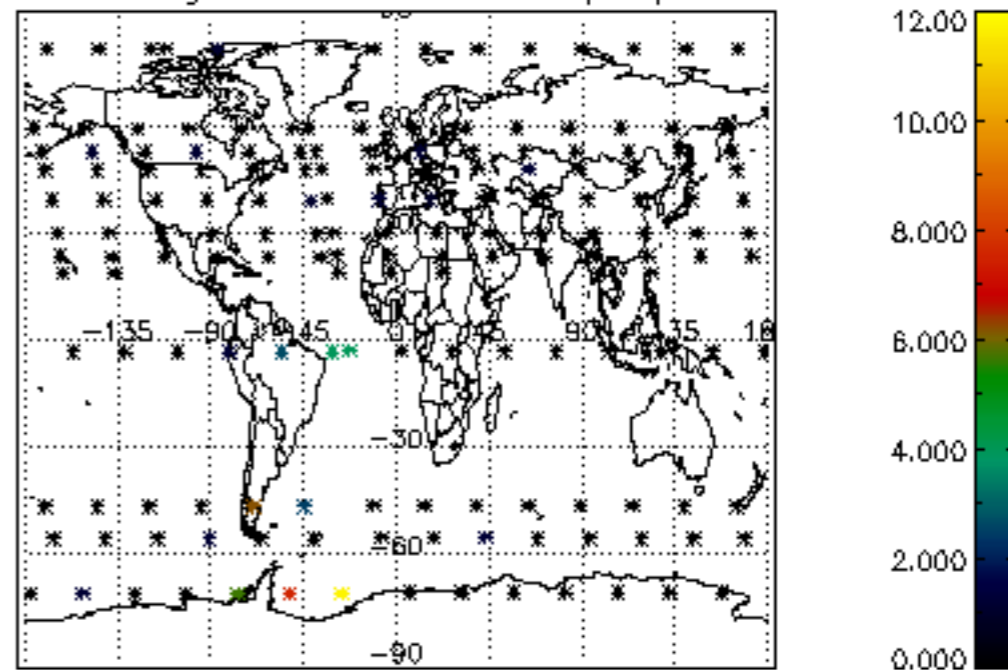
Percentage of datation errors per profile



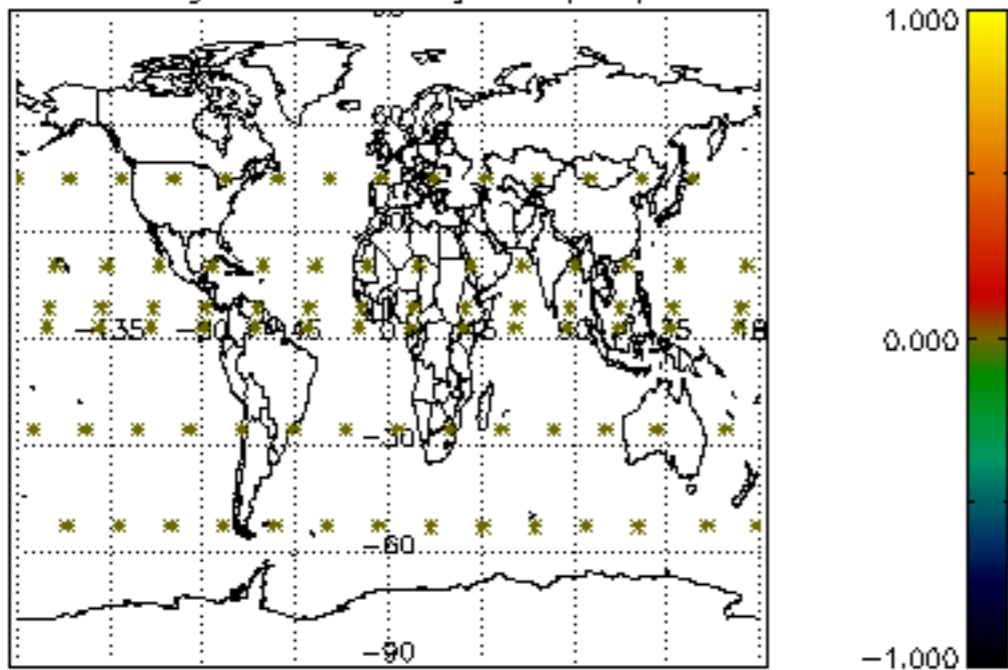
Percentage of star falling outside central band per profile



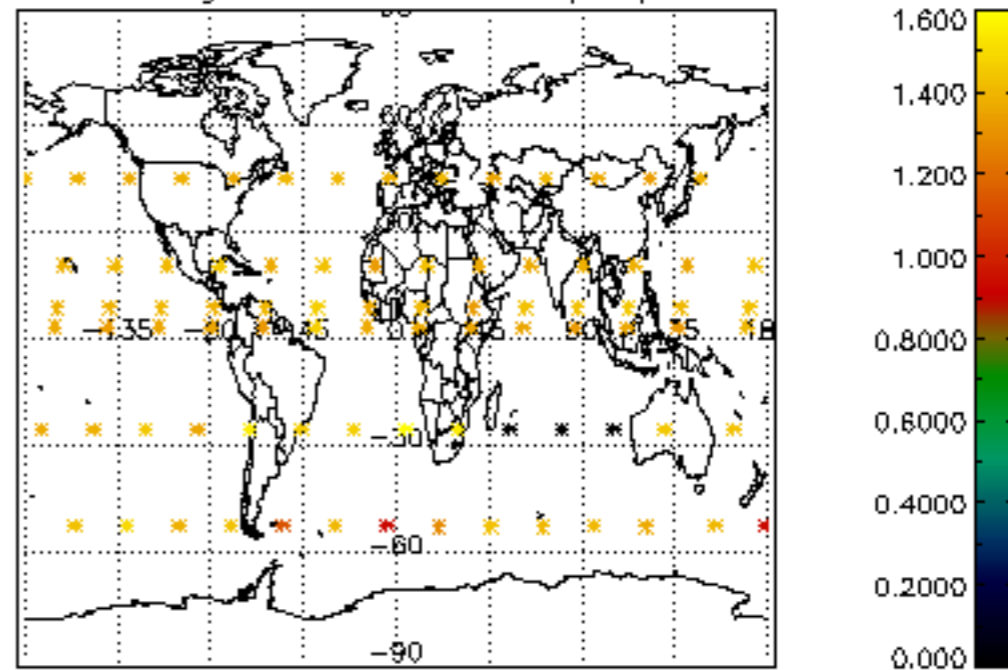
Percentage of saturation errors per profile



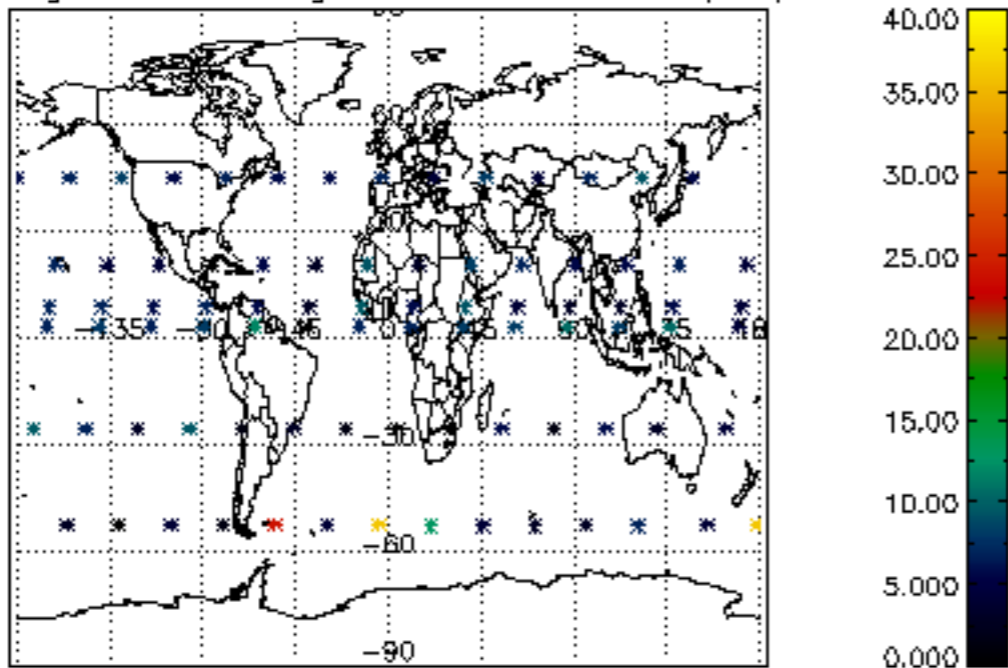
Percentage of cosmic ray hits per profile



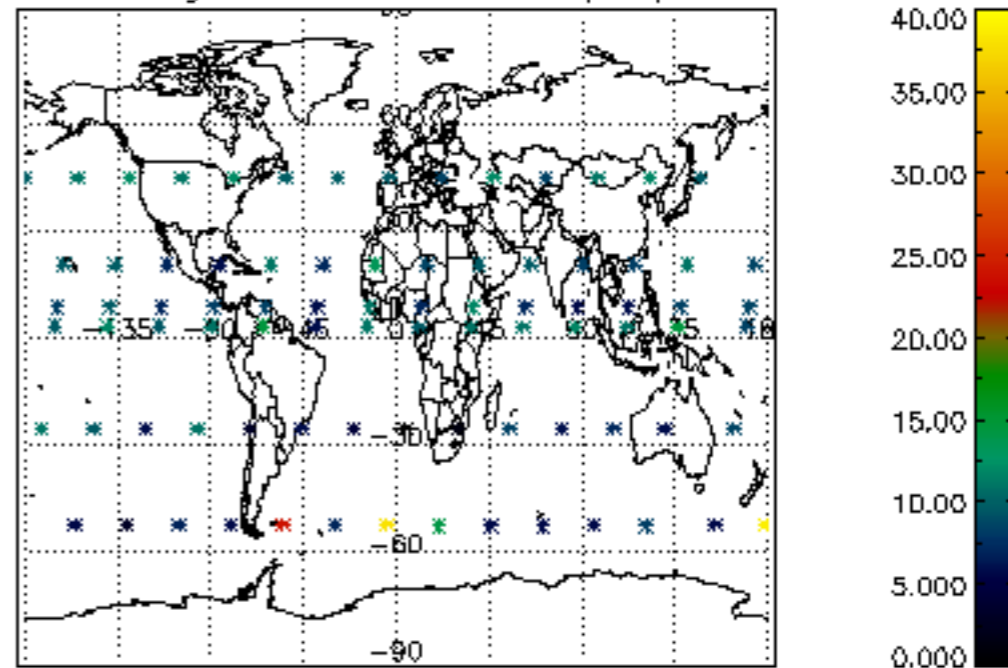
Percentage of datation errors per profile

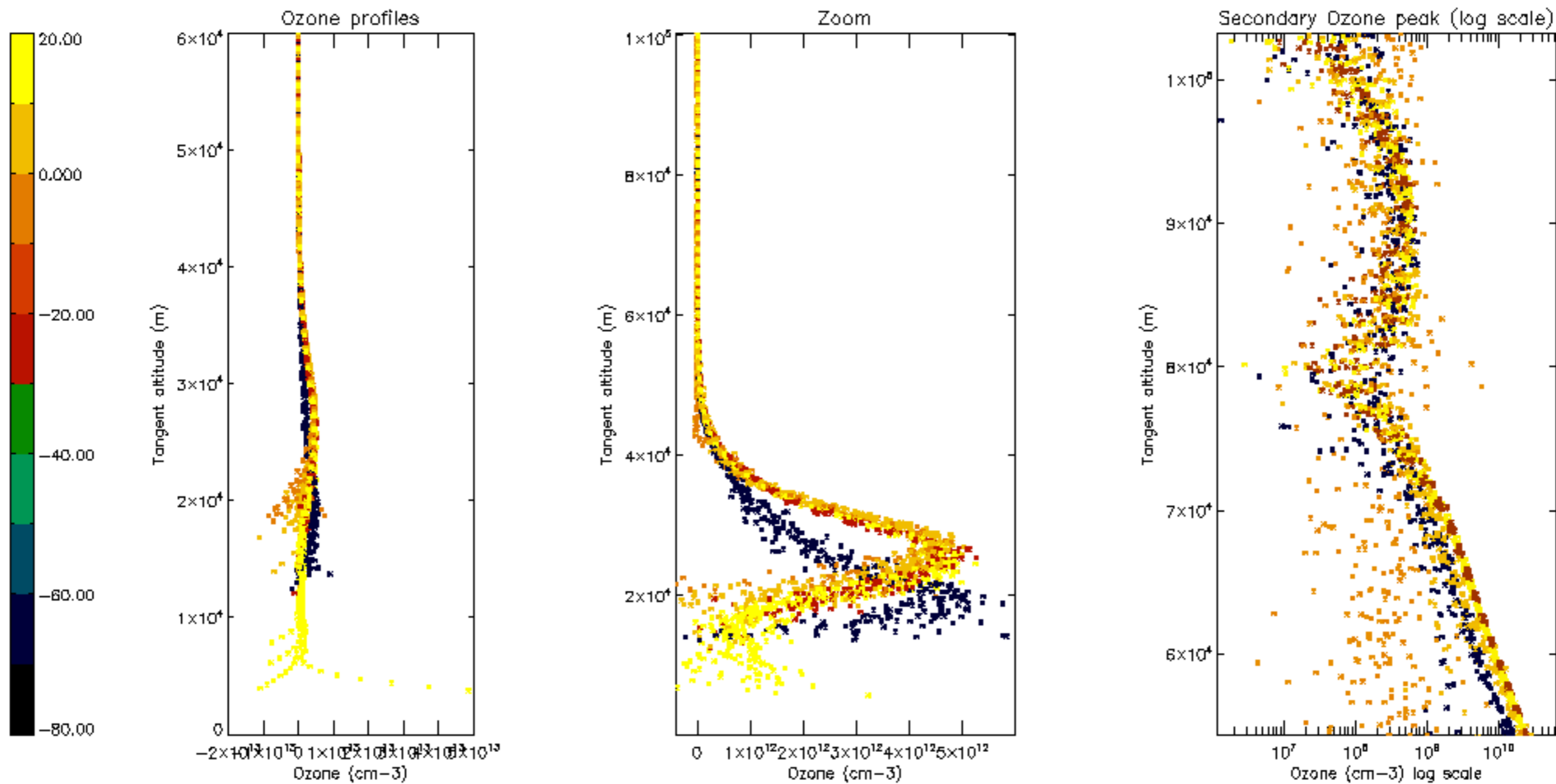


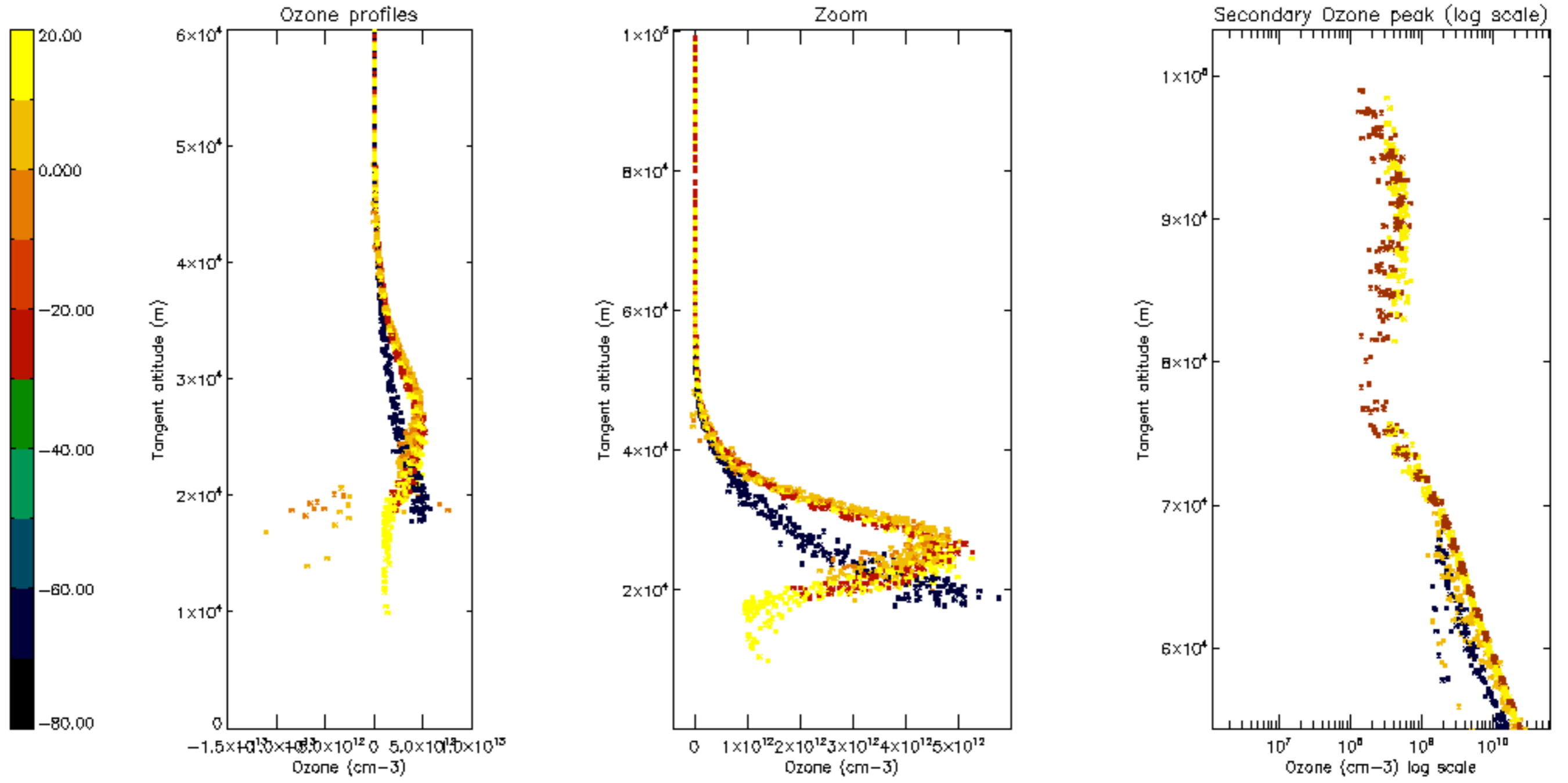
Percentage of star falling outside central band per profile

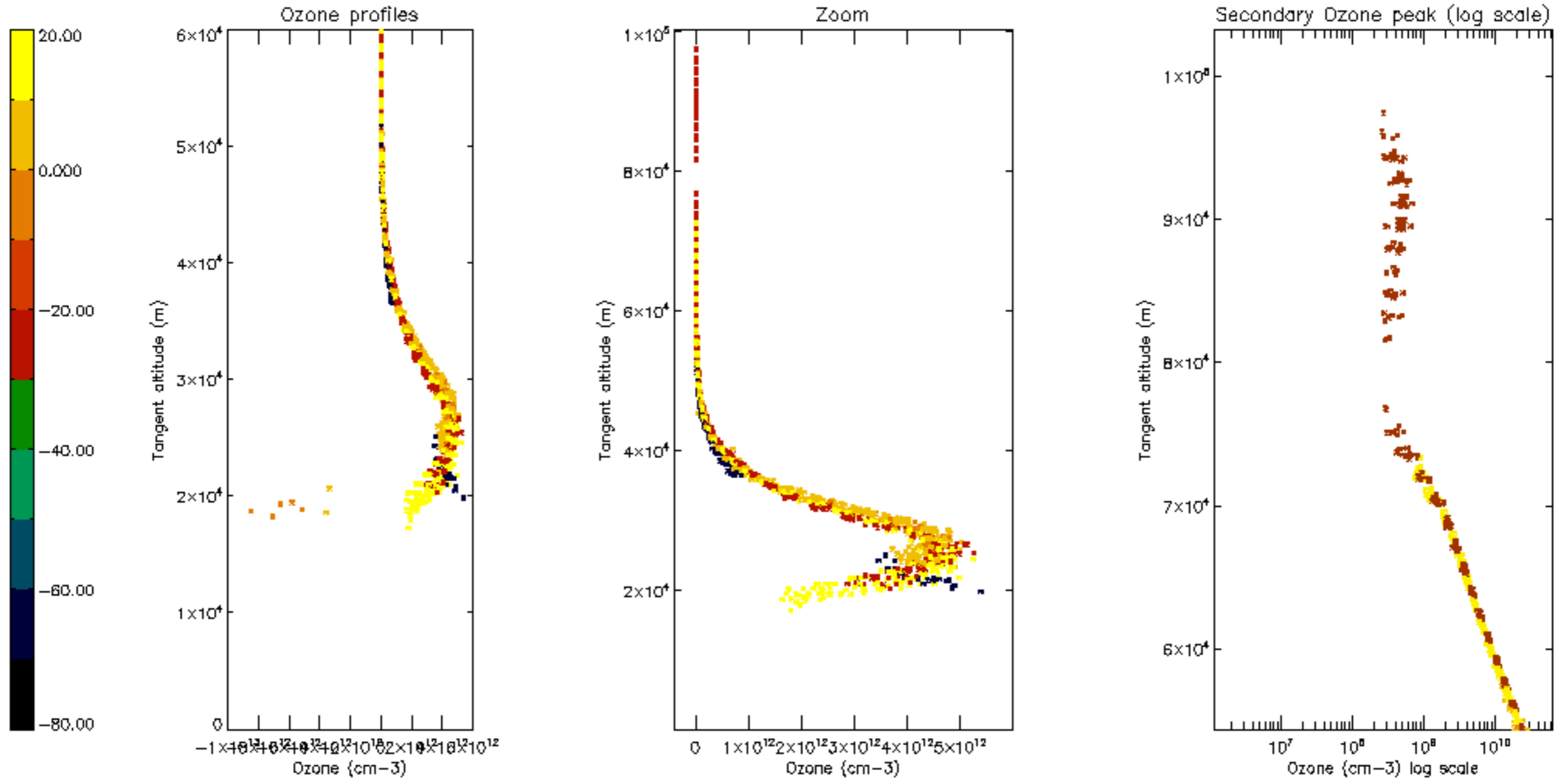


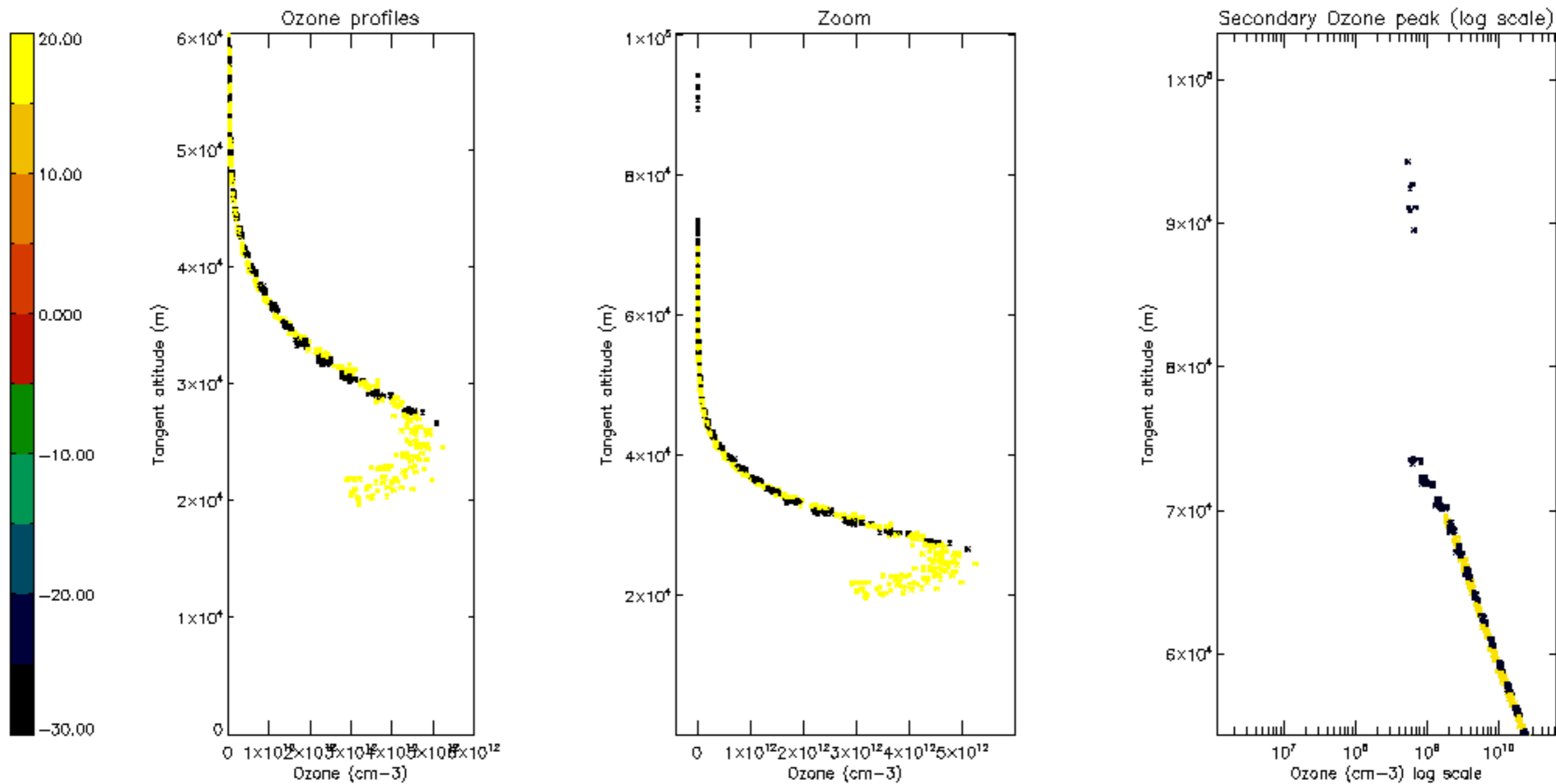
Percentage of saturation errors per profile



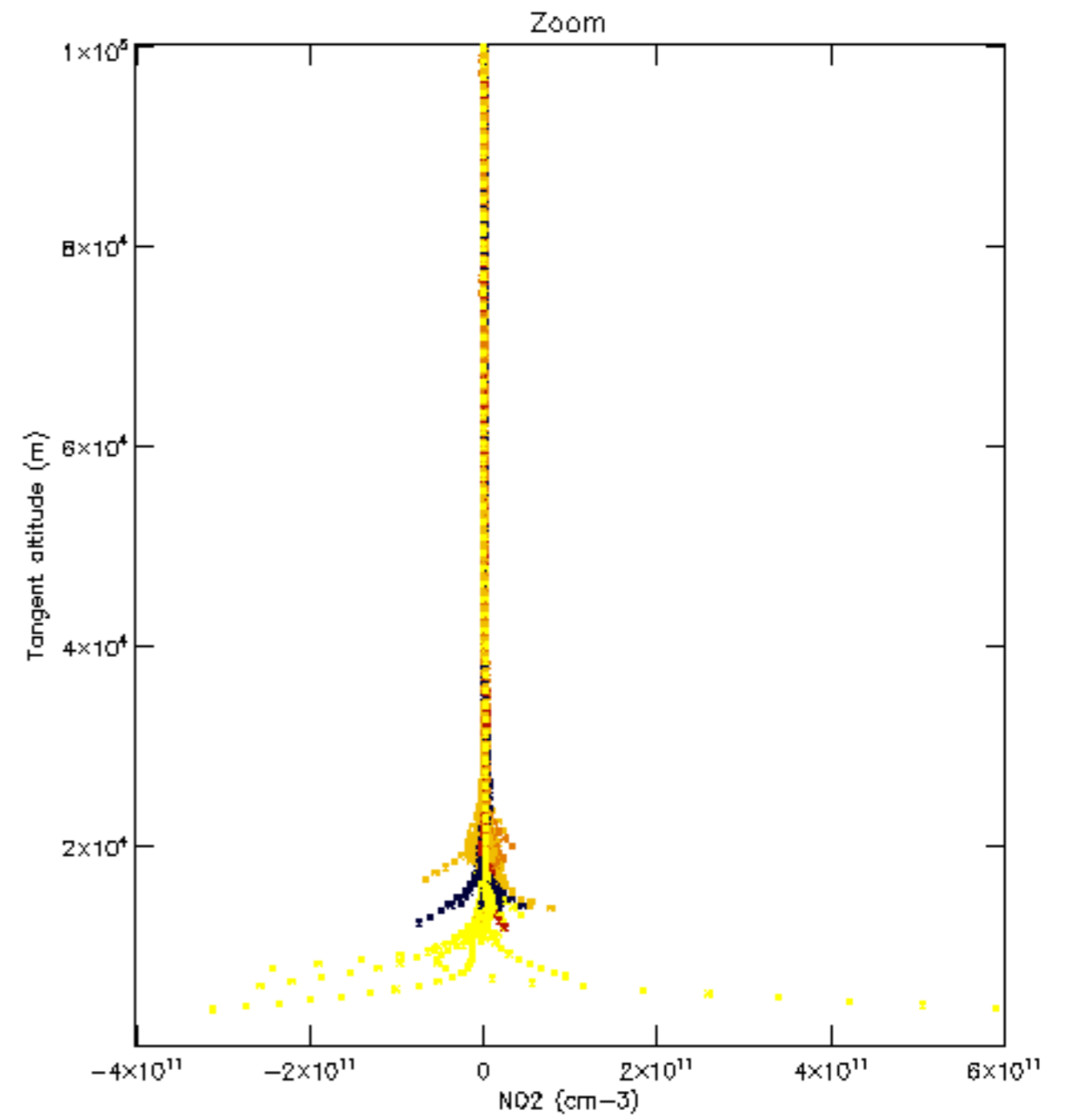
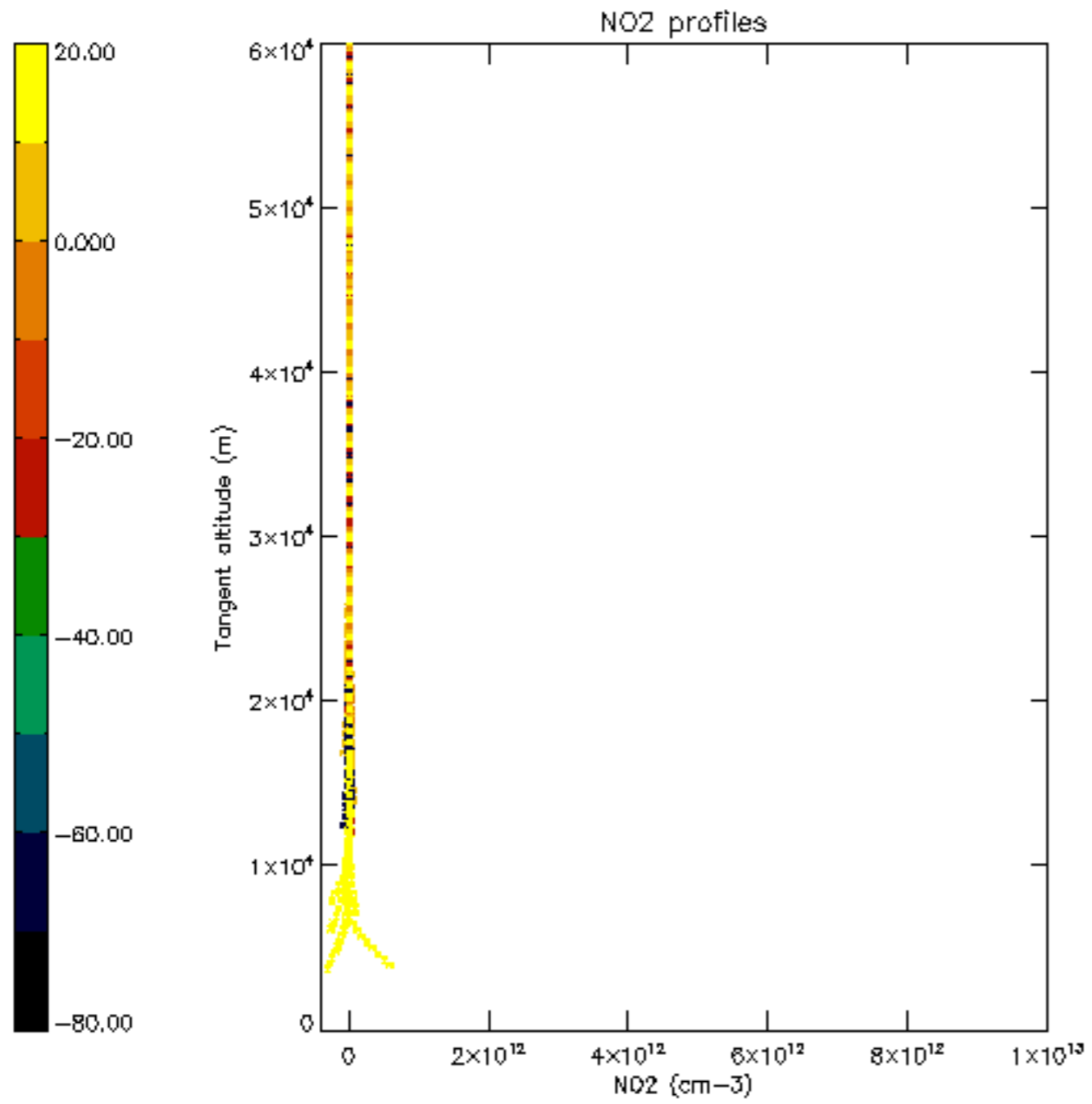


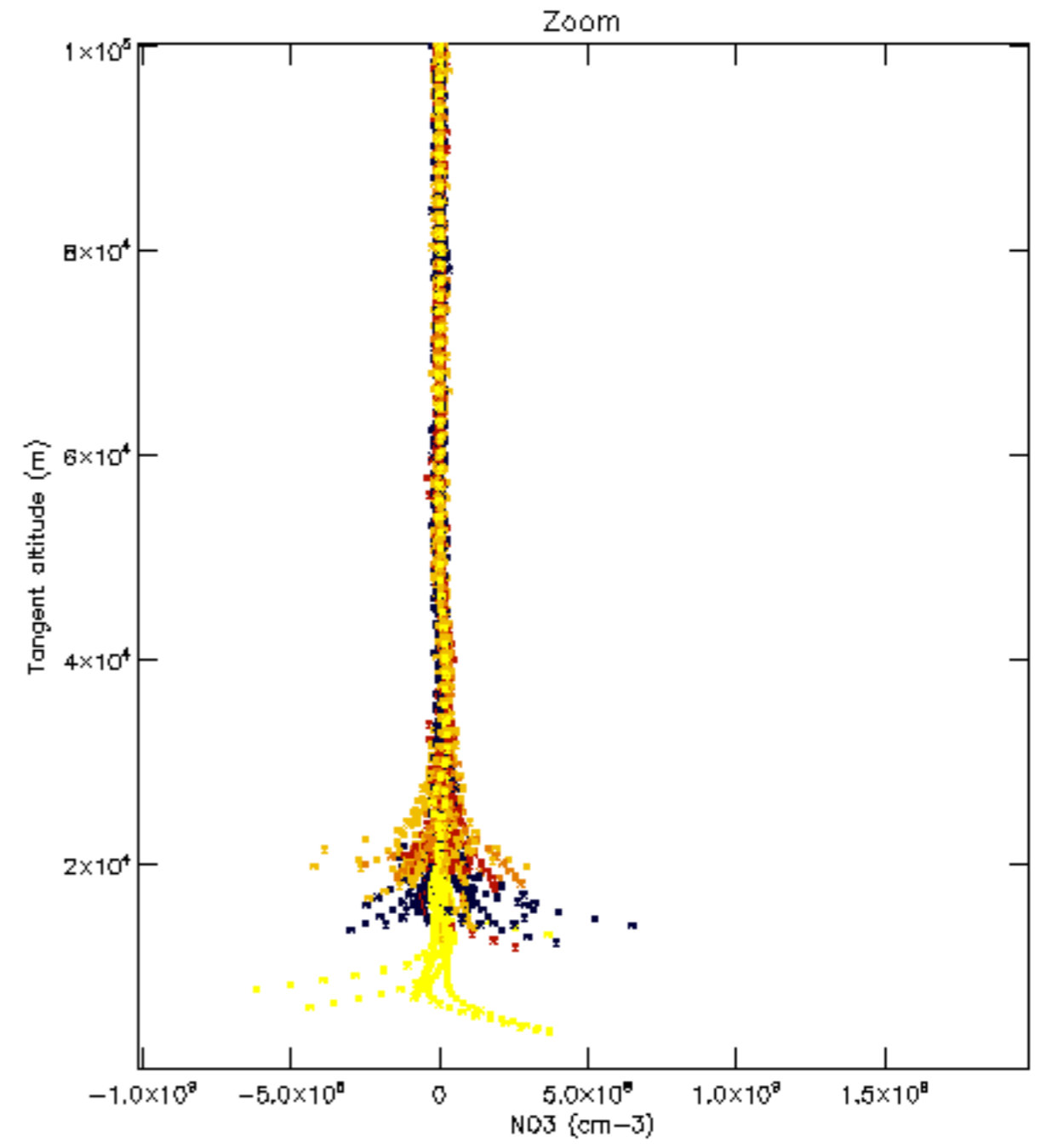
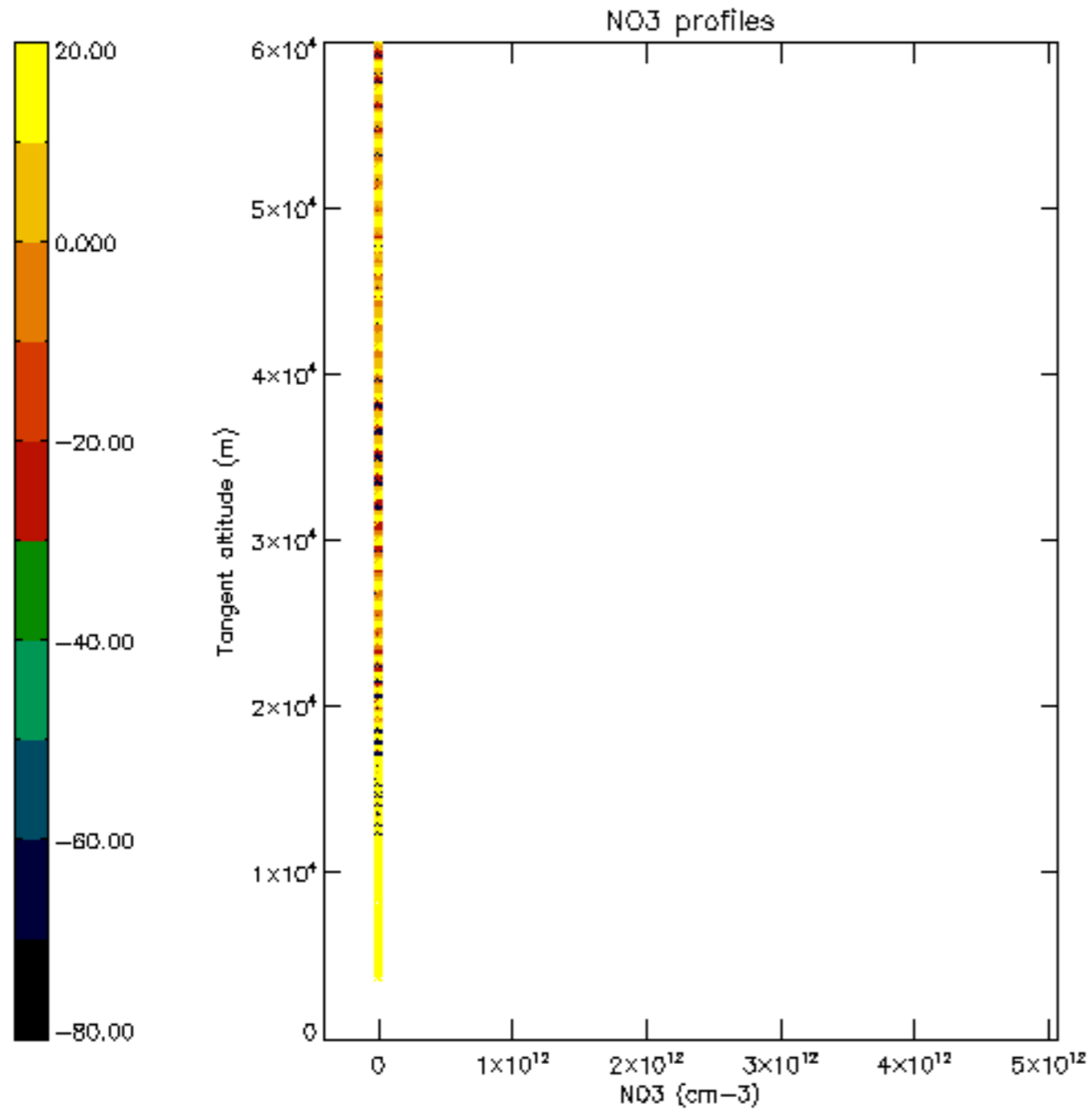


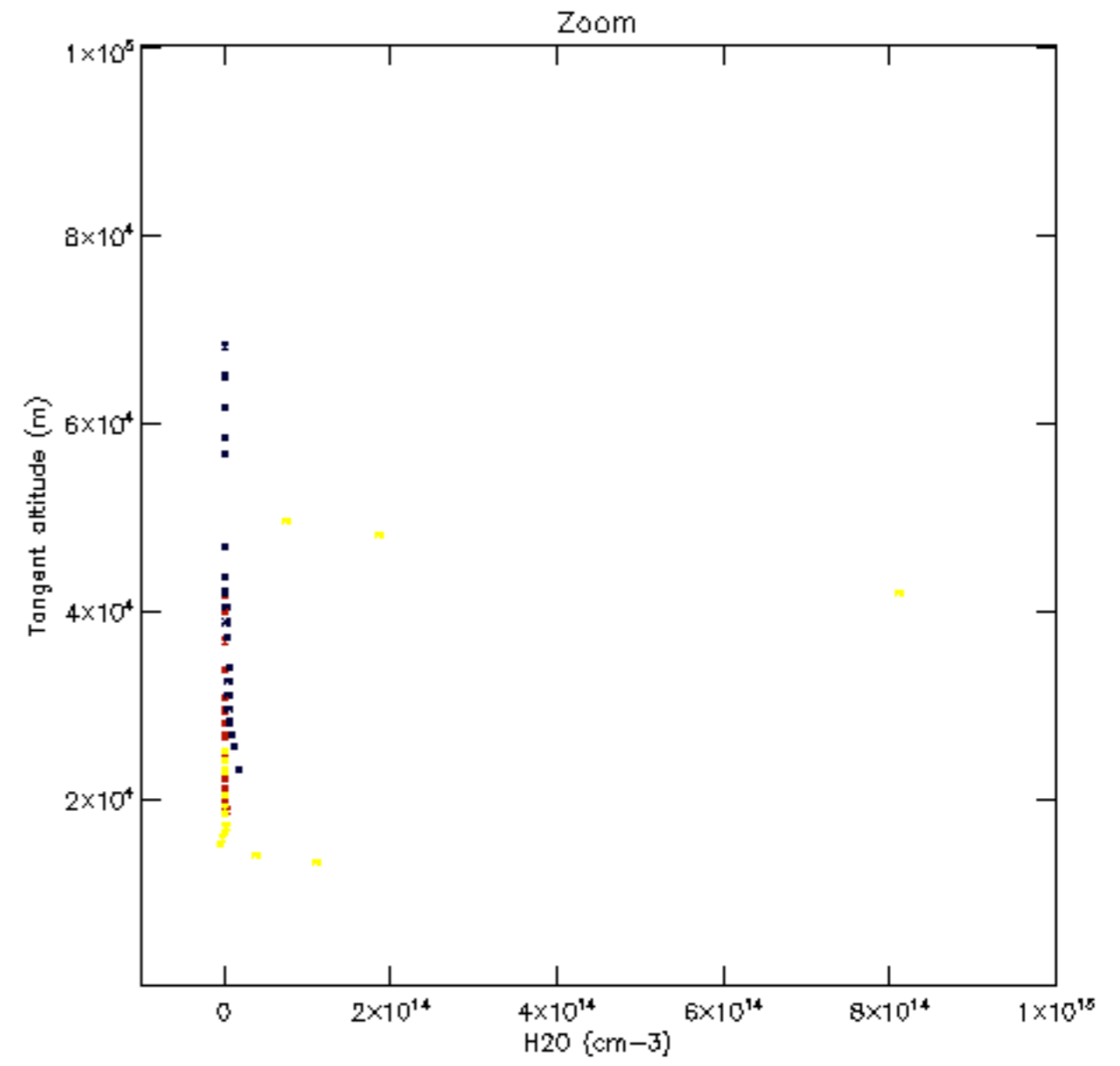
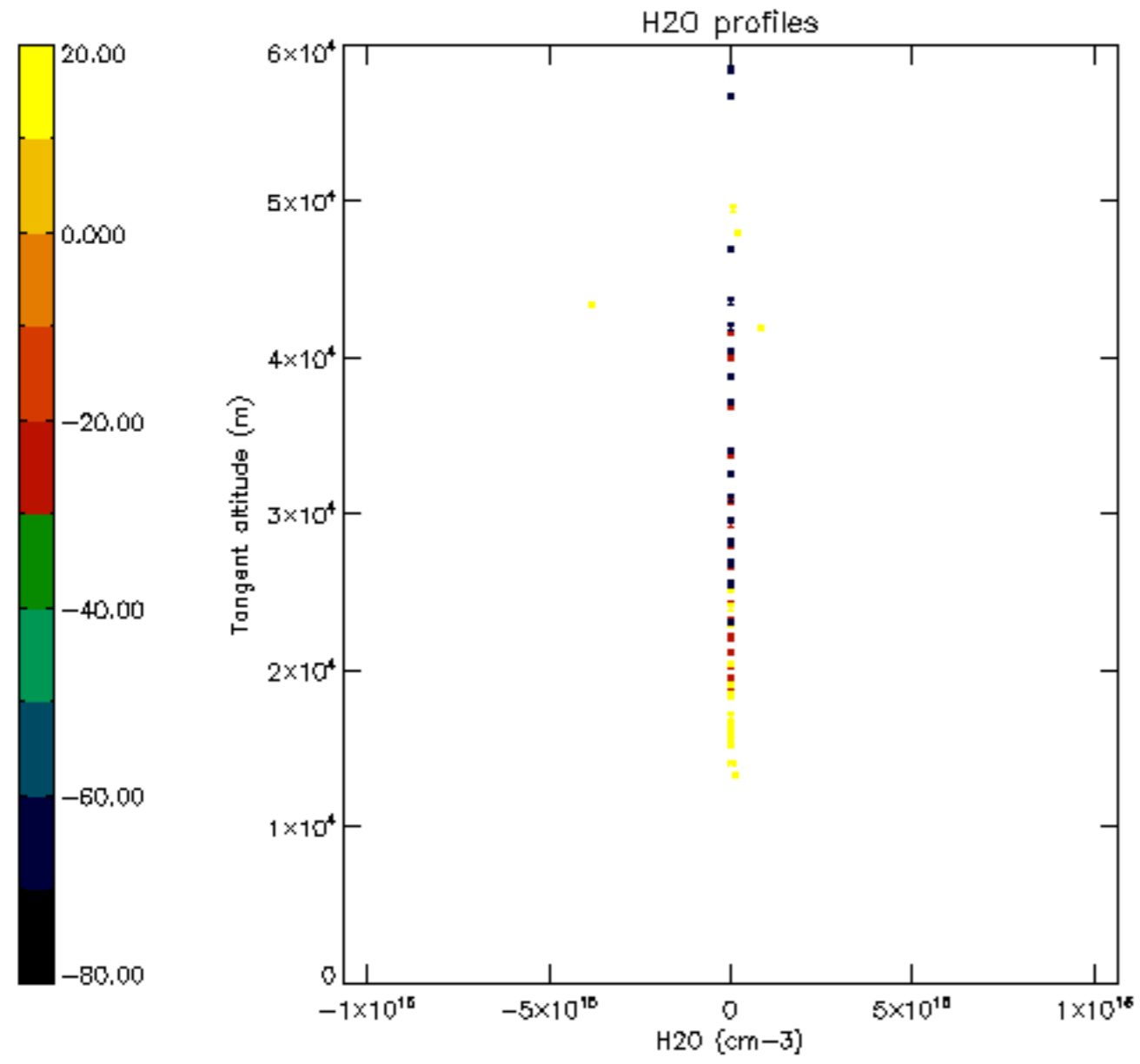


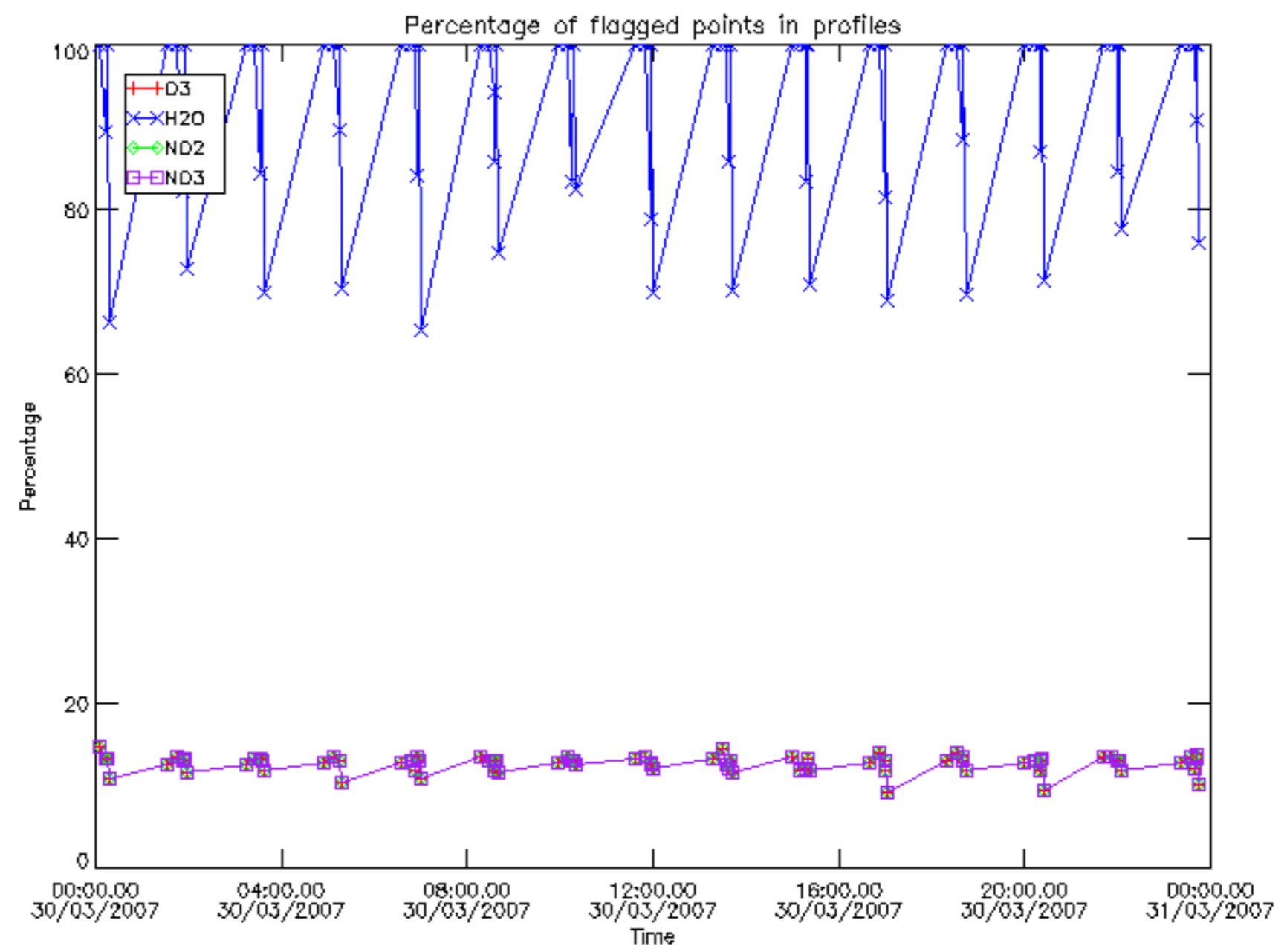




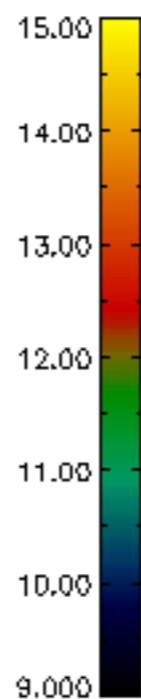
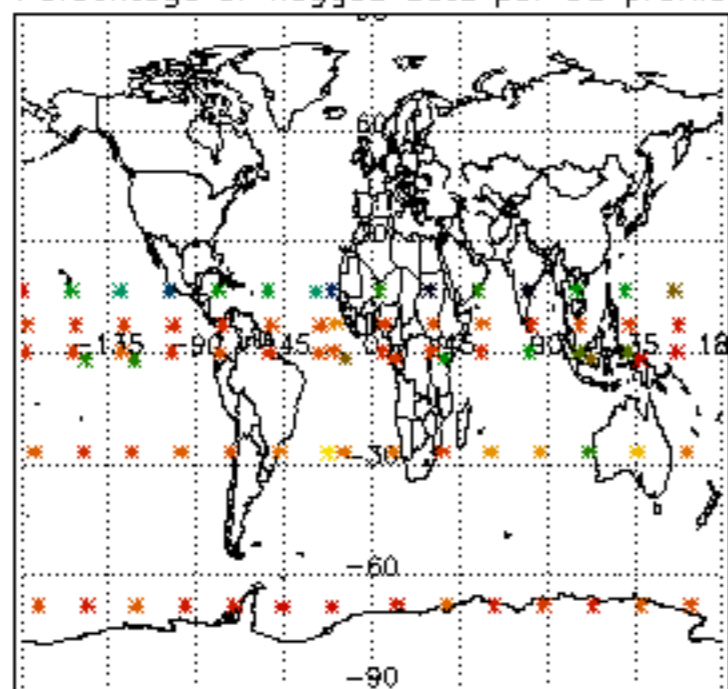




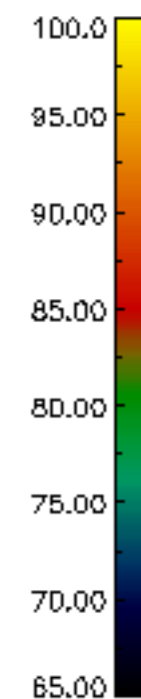
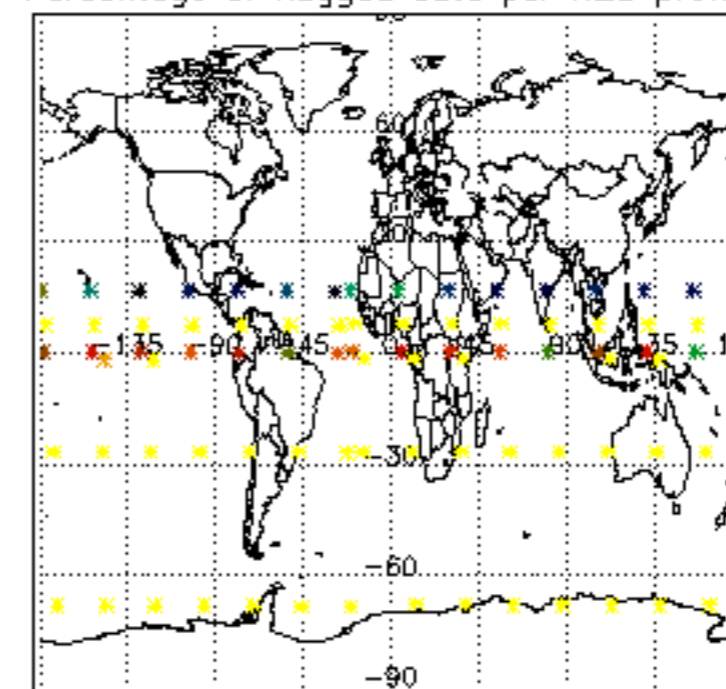




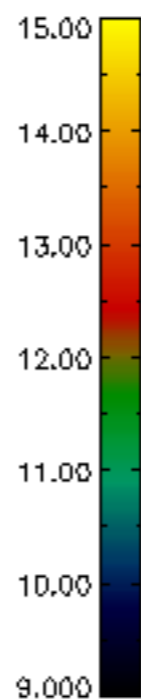
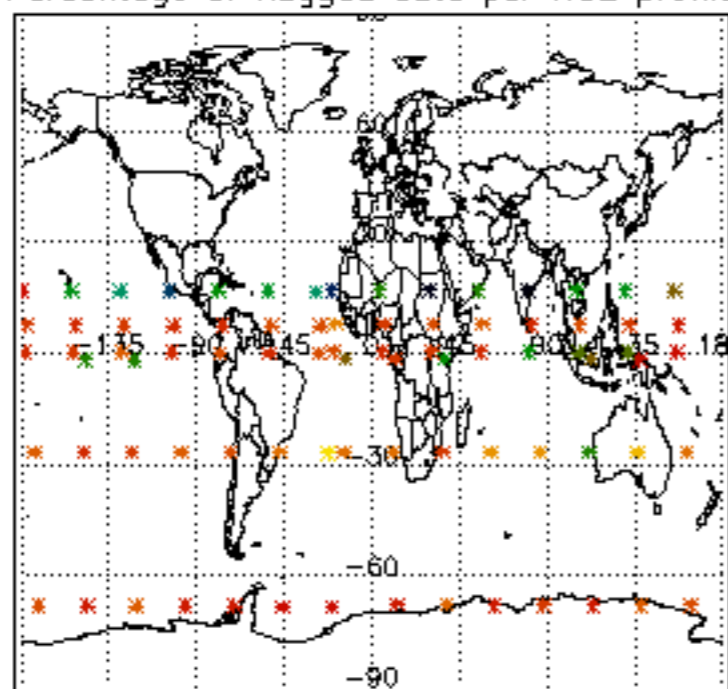
Percentage of flagged data per D3 profile



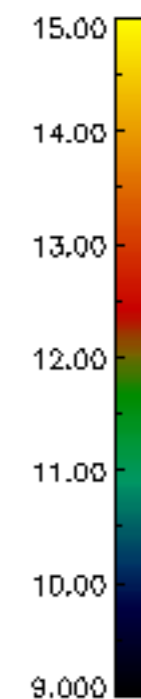
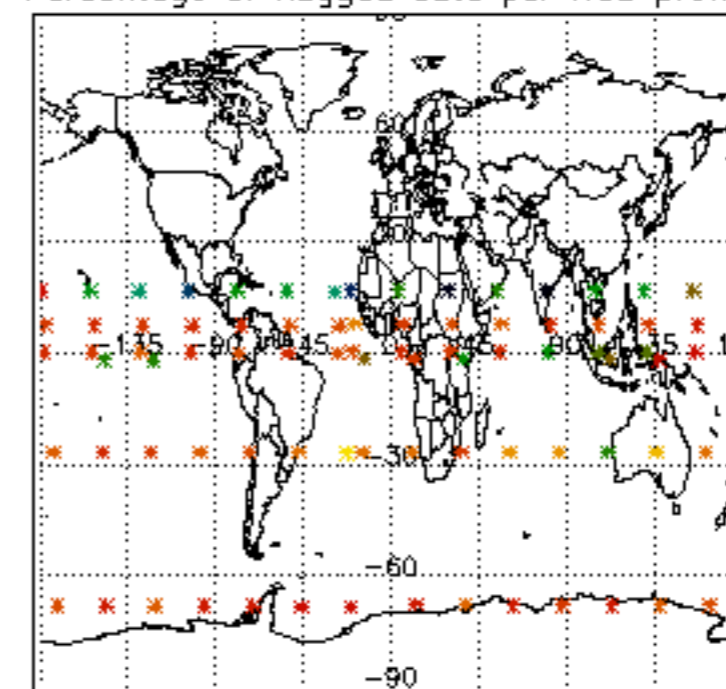
Percentage of flagged data per H2O profile

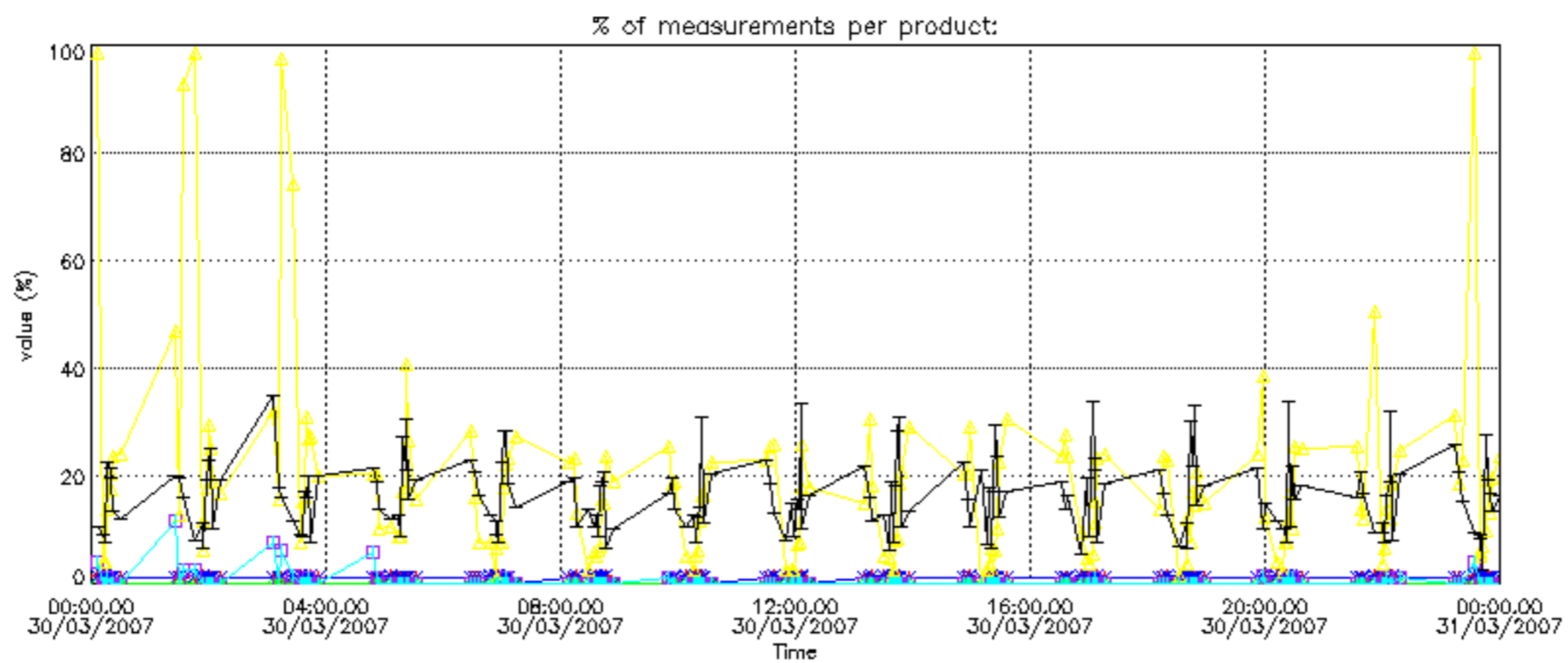
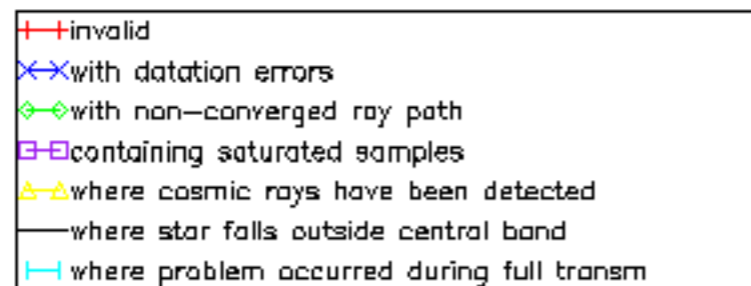


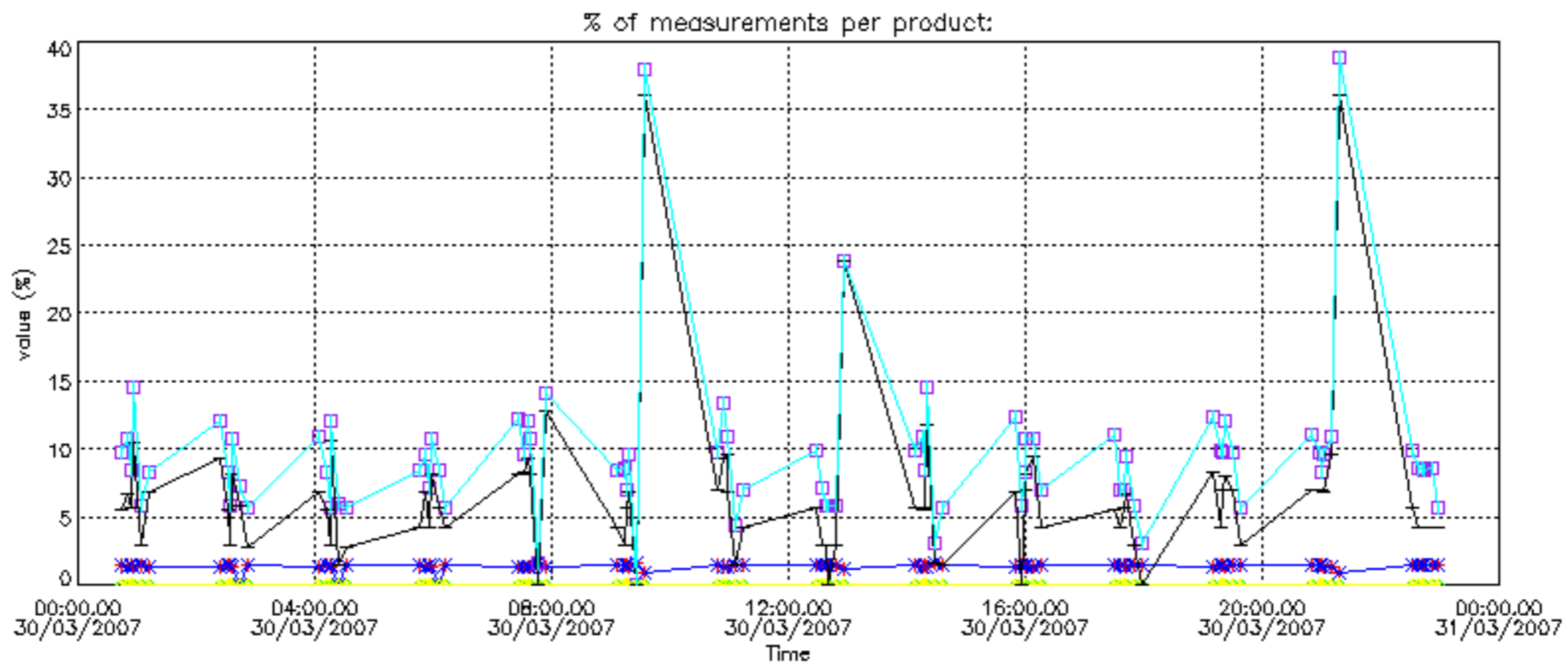
Percentage of flagged data per NO2 profile



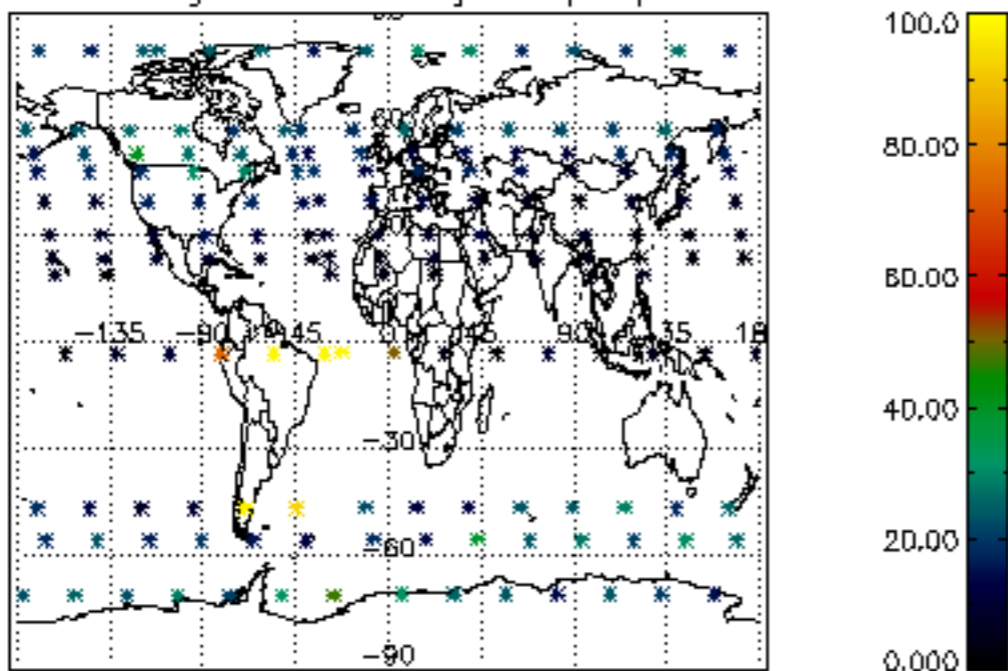
Percentage of flagged data per NO3 profile



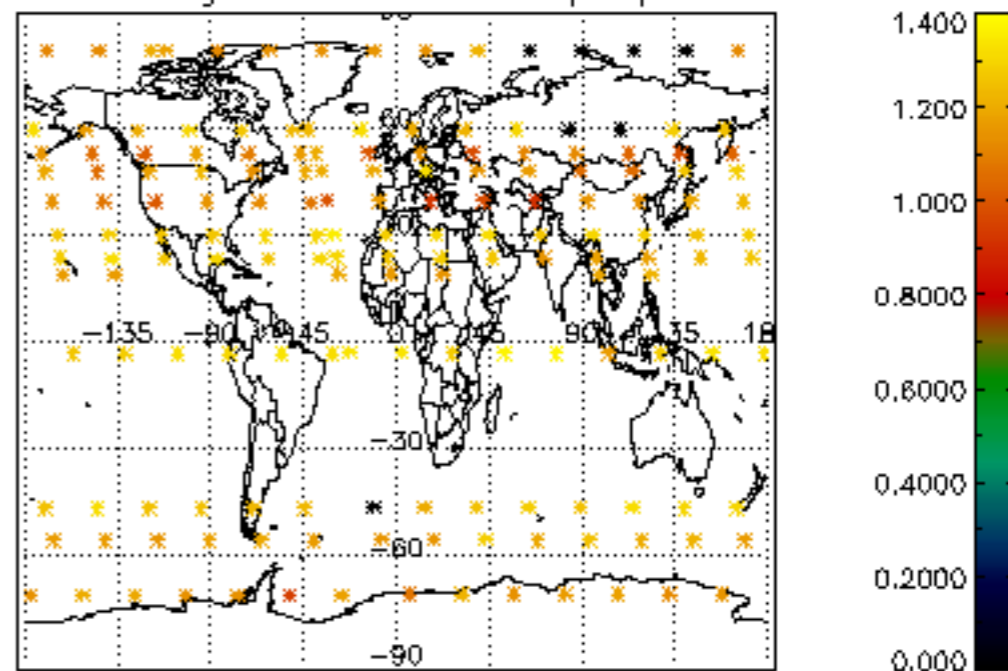




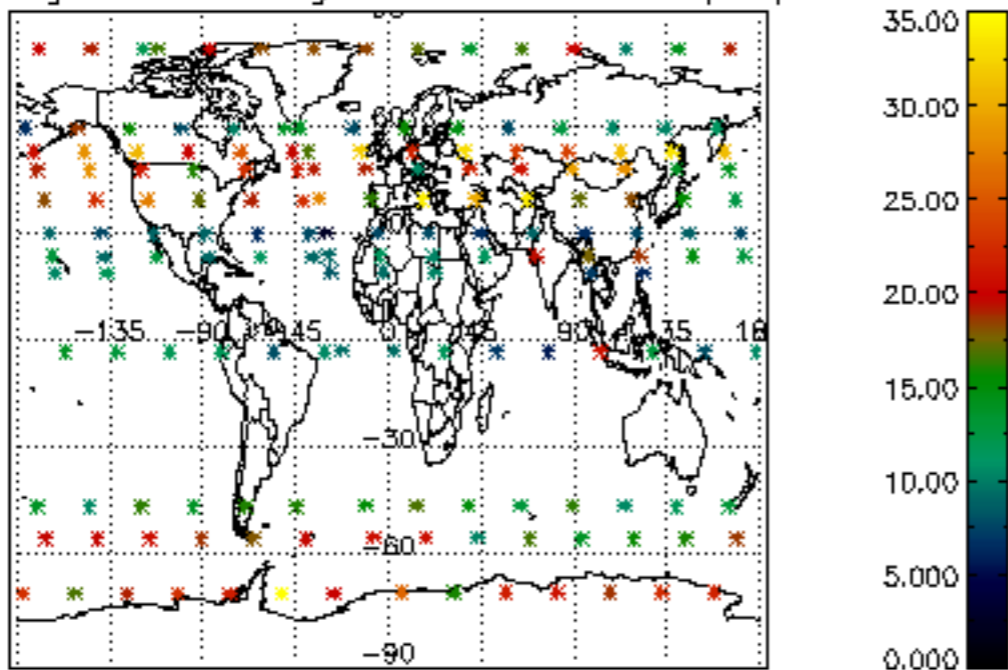
Percentage of cosmic ray hits per profile



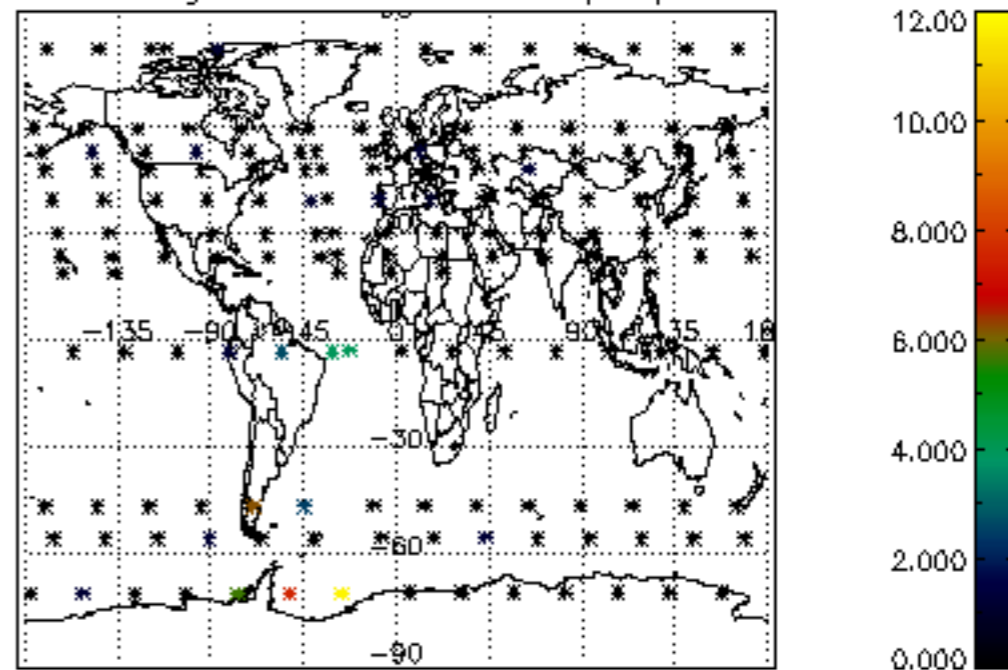
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

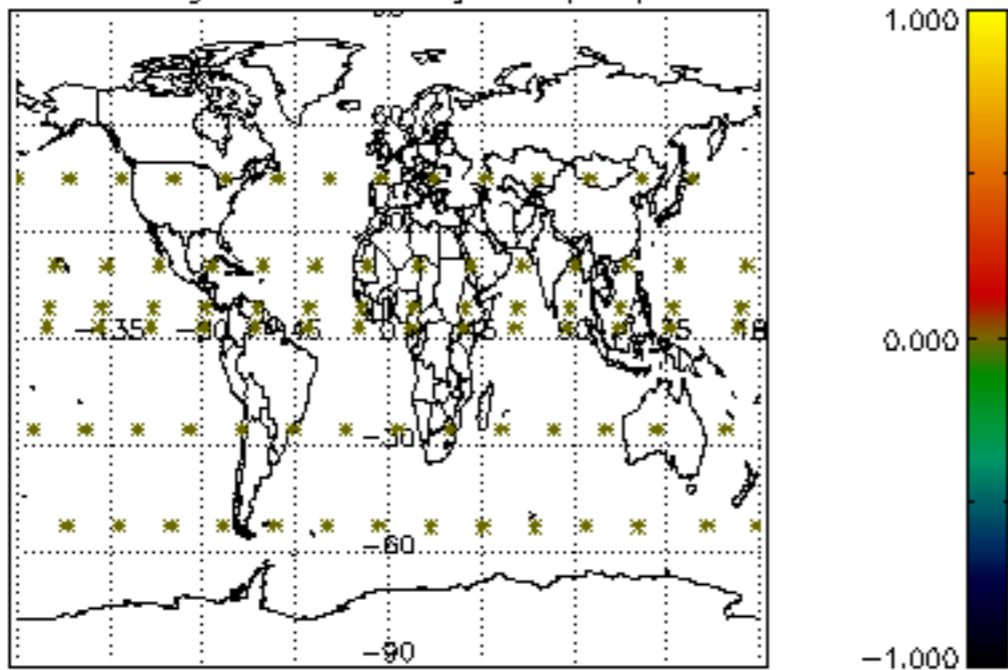


Percentage of saturation errors per profile

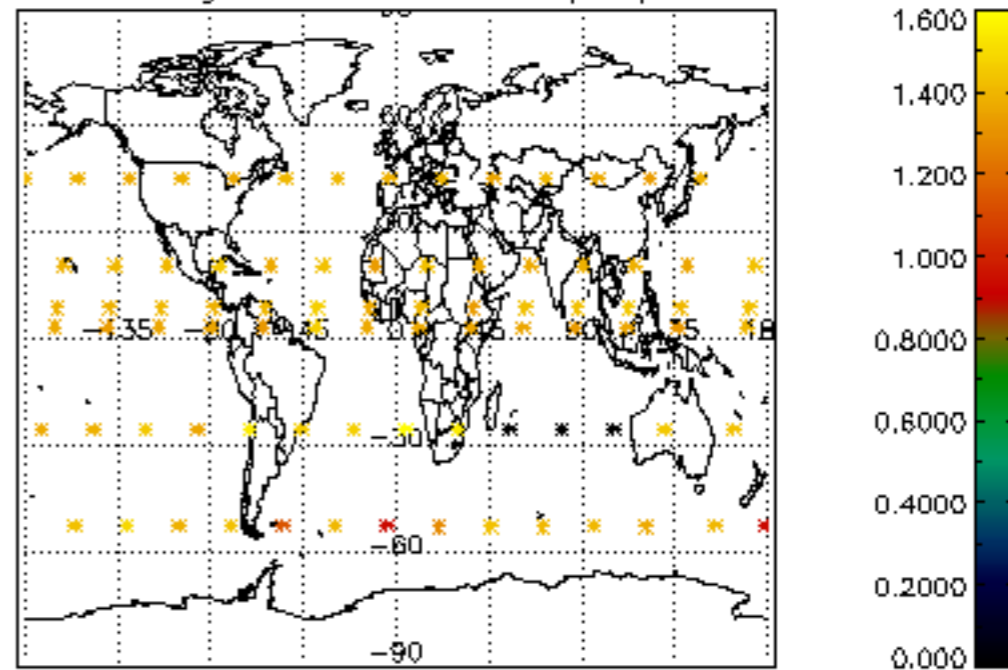




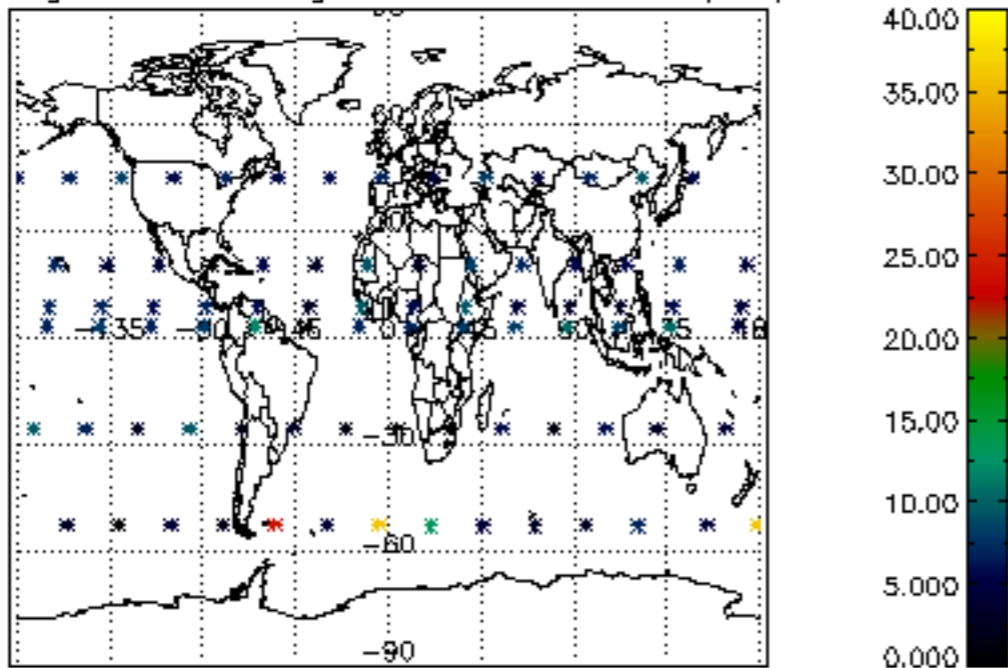
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

