

# 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	24APR2013 06:47:47
Data source version	GOMOS/6.01
Start time of products	21-12-2006 (21DEC2006 00:00:00)
Stop time of products	22-12-2006 (22DEC2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	344
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__2PRFIN20061221_000235_000000352054_00030_25134_0681.N1	21-DEC-2006 00:02:35	Bright	34.500	104	27Bet Lib	2.6140	13100.	69	25134	No
2	GOM_NL__2PRFIN20061221_000455_000000362054_00030_25134_0682.N1	21-DEC-2006 00:04:55	Bright	35.500	122	9Alp2Lib	2.7470	9700.0	71	25134	No
3	GOM_NL__2PRFIN20061221_001127_000000442054_00030_25134_0683.N1	21-DEC-2006 00:11:27	Dark	43.500	54	5The Cen	2.0550	4500.0	87	25134	No
4	GOM_NL__2PRFIN20061221_001323_000000392054_00030_25134_0684.N1	21-DEC-2006 00:13:23	Dark	38.500	78	Alp Lup	2.3040	28000.	77	25134	No
5	GOM_NL__2PRFIN20061221_001718_000000402054_00030_25134_0685.N1	21-DEC-2006 00:17:18	Dark	40.000	10	Bet Cen	0.61000	28000.	80	25134	No
6	GOM_NL__2PRFIN20061221_002007_000000492054_00031_25135_0662.N1	21-DEC-2006 00:20:07	Dark	48.500	12	Alp1Cru	0.77500	30000.	97	25135	No
7	GOM_NL__2PRFIN20061221_002505_000000392054_00031_25135_0663.N1	21-DEC-2006 00:25:05	Dark	39.000	159	Ups Car	2.9200	7200.0	78	25135	No
8	GOM_NL__2PRFIN20061221_002634_000000412054_00031_25135_0664.N1	21-DEC-2006 00:26:34	Dark	40.500	71	Iot Car	2.2460	7700.0	81	25135	No
9	GOM_NL__2PRFIN20061221_002823_000000542054_00031_25135_0665.N1	21-DEC-2006 00:28:23	Dark	54.000	41	Eps Car	1.8600	4100.0	108	25135	No
10	GOM_NL__2PRFIN20061221_003305_000000542054_00031_25135_0666.N1	21-DEC-2006 00:33:05	Dark	54.000	2	Alp Car	-0.73600	7000.0	108	25135	No
11	GOM_NL__2PRFIN20061221_003900_000000412054_00031_25135_0667.N1	21-DEC-2006 00:39:00	Straylight	41.000	108	Alp Col	2.6520	15200.	82	25135	No
12	GOM_NL__2PRFIN20061221_004350_000000432054_00031_25135_0668.N1	21-DEC-2006 00:43:50	Straylight	42.500	101	11Alp Lep	2.5820	7000.0	85	25135	No
13	GOM_NL__2PRFIN20061221_004649_000000502054_00031_25135_0669.N1	21-DEC-2006 00:46:49	Straylight	50.000	7	19Bet Ori	0.10000	14000.	100	25135	No
14	GOM_NL__2PRFIN20061221_005404_000000472054_00031_25135_0670.N1	21-DEC-2006 00:54:04	Twilight_stray	47.000	13	87Alp Tau	0.86700	3800.0	94	25135	No
15	GOM_NL__2PRFIN20061221_005624_000000362054_00031_25135_0671.N1	21-DEC-2006 00:56:24	Bright	35.500	146	25Eta Tau	2.8730	15200.	71	25135	No
16	GOM_NL__2PRFIN20061221_005831_000000362054_00031_25135_0672.N1	21-DEC-2006 00:58:31	Bright	35.500	150	44Zet Per	2.8900	28000.	71	25135	No
17	GOM_NL__2PRFIN20061221_010045_000000342054_00031_25135_0673.N1	21-DEC-2006 01:00:45	Bright	34.000	149	45Eps Per	2.8880	30000.	68	25135	No
18	GOM_NL__2PRFIN20061221_010259_000000342054_00031_25135_0674.N1	21-DEC-2006 01:02:59	Bright	33.500	175	39Del Per	3.0100	19400.	67	25135	No
19	GOM_NL__2PRFIN20061221_010452_000000352054_00031_25135_0675.N1	21-DEC-2006 01:04:52	Bright	34.500	160	23Gam Per	2.9300	4700.0	69	25135	No
20	GOM_NL__2PRFIN20061221_011437_000000372054_00031_25135_0676.N1	21-DEC-2006 01:14:37	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	25135	No
21	GOM_NL__2PRFIN20061221_011917_000000362054_00031_25135_0677.N1	21-DEC-2006 01:19:17	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	25135	No
22	GOM_NL__2PRFIN20061221_012244_000000362054_00031_25135_0678.N1	21-DEC-2006 01:22:44	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	25135	No
23	GOM_NL__2PRFIN20061221_013318_000000452054_00031_25135_0679.N1	21-DEC-2006 01:33:18	Bright	44.500	83		2.3780	11000.	89	25135	No
24	GOM_NL__2PRFIN20061221_013826_000000342054_00031_25135_0680.N1	21-DEC-2006 01:38:26	Bright	33.500	102	24Alp Ser	2.6000	4250.0	67	25135	No
25	GOM_NL__2PRFIN20061221_014311_000000342054_00031_25135_0681.N1	21-DEC-2006 01:43:11	Bright	34.000	104	27Bet Lib	2.6140	13100.	68	25135	No
26	GOM_NL__2PRFIN20061221_014531_000000362054_00031_25135_0682.N1	21-DEC-2006 01:45:31	Bright	36.000	122	9Alp2Lib	2.7470	9700.0	72	25135	No
27	GOM_NL__2PRFIN20061221_015204_000000402054_00031_25135_0683.N1	21-DEC-2006 01:52:04	Dark	40.000	54	5The Cen	2.0550	4500.0	80	25135	No
28	GOM_NL__2PRFIN20061221_015359_000000382054_00031_25135_0684.N1	21-DEC-2006 01:53:59	Dark	37.500	78	Alp Lup	2.3040	28000.	75	25135	No
29	GOM_NL__2PRFIN20061221_015755_000000392054_00031_25135_0685.N1	21-DEC-2006 01:57:55	Dark	39.000	10	Bet Cen	0.61000	28000.	78	25135	No
30	GOM_NL__2PRFIN20061221_020043_000000412054_00032_25136_0662.N1	21-DEC-2006 02:00:43	Dark	41.000	12	Alp1Cru	0.77500	30000.	82	25136	No
31	GOM_NL__2PRFIN20061221_020542_000000402054_00032_25136_0663.N1	21-DEC-2006 02:05:42	Dark	40.000	159	Ups Car	2.9200	7200.0	80	25136	No
32	GOM_NL__2PRFIN20061221_020710_000000412054_00032_25136_0664.N1	21-DEC-2006 02:07:10	Dark	41.000	71	Iot Car	2.2460	7700.0	82	25136	No
33	GOM_NL__2PRFIN20061221_020900_000000482054_00032_25136_0665.N1	21-DEC-2006 02:09:00	Dark	47.500	41	Eps Car	1.8600	4100.0	95	25136	No
34	GOM_NL__2PRFIN20061221_021341_000000532054_00032_25136_0666.N1	21-DEC-2006 02:13:41	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	25136	No
35	GOM_NL__2PRFIN20061221_021936_000000402054_00032_25136_0667.N1	21-DEC-2006 02:19:36	Straylight	40.000	108	Alp Col	2.6520	15200.	80	25136	No
36	GOM_NL__2PRFIN20061221_022426_000000472054_00032_25136_0668.N1	21-DEC-2006 02:24:26	Straylight	46.500	101	11Alp Lep	2.5820	7000.0	93	25136	No
37	GOM_NL__2PRFIN20061221_022725_000000502054_00032_25136_0669.N1	21-DEC-2006 02:27:25	Straylight	49.500	7	19Bet Ori	0.10000	14000.	99	25136	No
38	GOM_NL__2PRFIN20061221_023440_000000522054_00032_25136_0670.N1	21-DEC-2006 02:34:40	Twilight_stray	52.000	13	87Alp Tau	0.86700	3800.0	104	25136	No
39	GOM_NL__2PRFIN20061221_023701_000000352054_00032_25136_0671.N1	21-DEC-2006 02:37:01	Bright	35.000	146	25Eta Tau	2.8730	15200.	70	25136	No
40	GOM_NL__2PRFIN20061221_023907_000000362054_00032_25136_0672.N1	21-DEC-2006 02:39:07	Bright	35.500	150	44Zet Per	2.8900	28000.	71	25136	No
41	GOM_NL__2PRFIN20061221_024121_000000352054_00032_25136_0673.N1	21-DEC-2006 02:41:21	Bright	35.000	149	45Eps Per	2.8880	30000.	70	25136	No
42	GOM_NL__2PRFIN20061221_024335_000000342054_00032_25136_0674.N1	21-DEC-2006 02:43:35	Bright	33.500	175	39Del Per	3.0100	19400.	67	25136	No









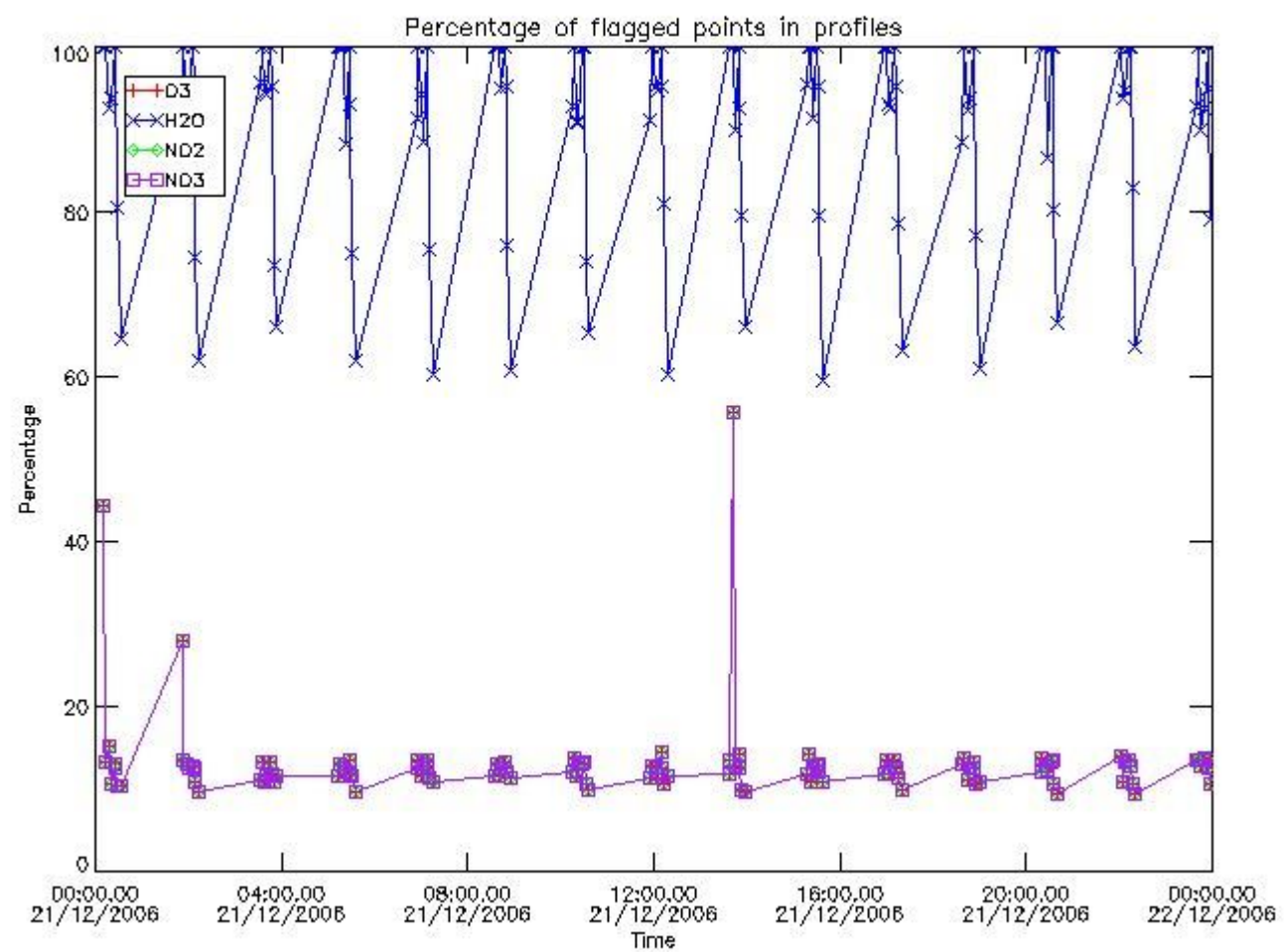


338	GOM_NL__2PRFIN20061221_233958_000000422054_00044_25148_0703.N1	21-DEC-2006 23:39:58	Dark	41.500	54	5The Cen	2.0550	4500.0	83	25148	No
339	GOM_NL__2PRFIN20061221_234150_000000382054_00044_25148_0704.N1	21-DEC-2006 23:41:50	Dark	38.000	78	Alp Lup	2.3040	28000.	76	25148	No
340	GOM_NL__2PRFIN20061221_234546_000000402054_00044_25148_0705.N1	21-DEC-2006 23:45:46	Dark	40.000	10	Bet Cen	0.61000	28000.	80	25148	No
341	GOM_NL__2PRFIN20061221_234836_000000412054_00045_25149_0682.N1	21-DEC-2006 23:48:36	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	25149	No
342	GOM_NL__2PRFIN20061221_235335_000000382054_00045_25149_0683.N1	21-DEC-2006 23:53:35	Dark	38.000	159	Ups Car	2.9200	7200.0	76	25149	No
343	GOM_NL__2PRFIN20061221_235505_000000412054_00045_25149_0684.N1	21-DEC-2006 23:55:05	Dark	40.500	71	lot Car	2.2460	7700.0	81	25149	No
344	GOM_NL__2PRFIN20061221_235654_000000532054_00045_25149_0685.N1	21-DEC-2006 23:56:54	Dark	53.000	41	Eps Car	1.8600	4100.0	106	25149	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.

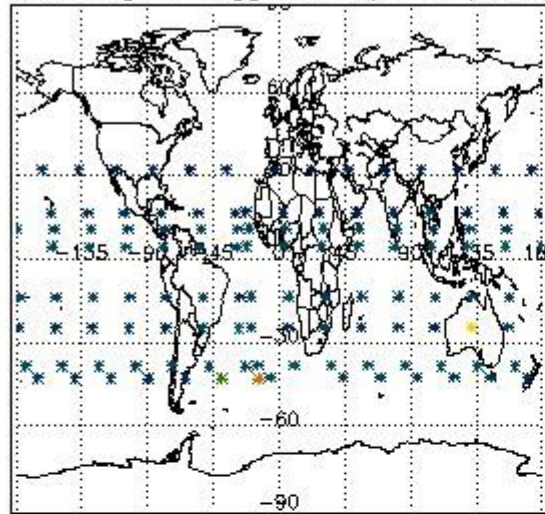
#### 3.1 Plot quality information per product (time dependant)



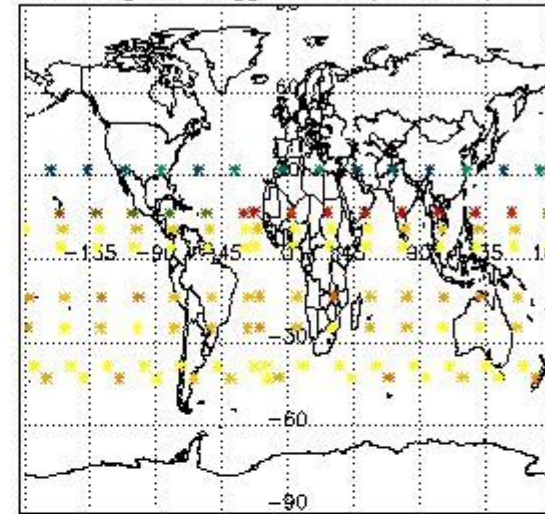
#### 3.2 Plot quality information per product (world map)



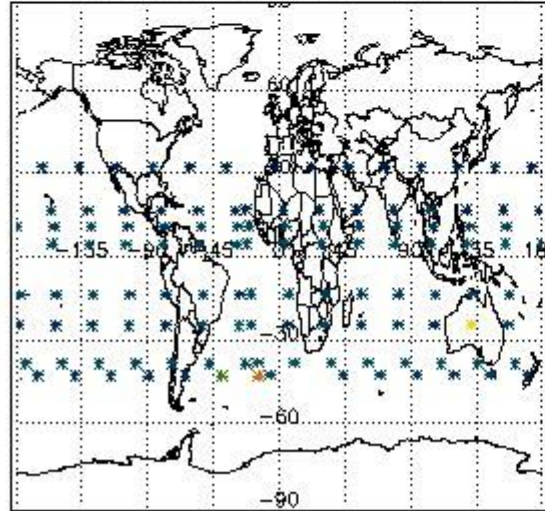
Percentage of flagged data per O3 profile



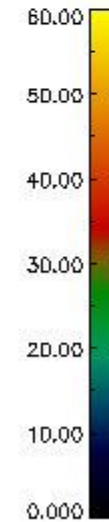
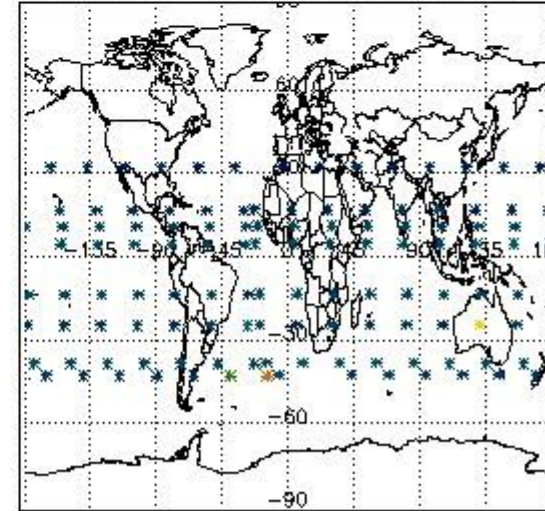
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

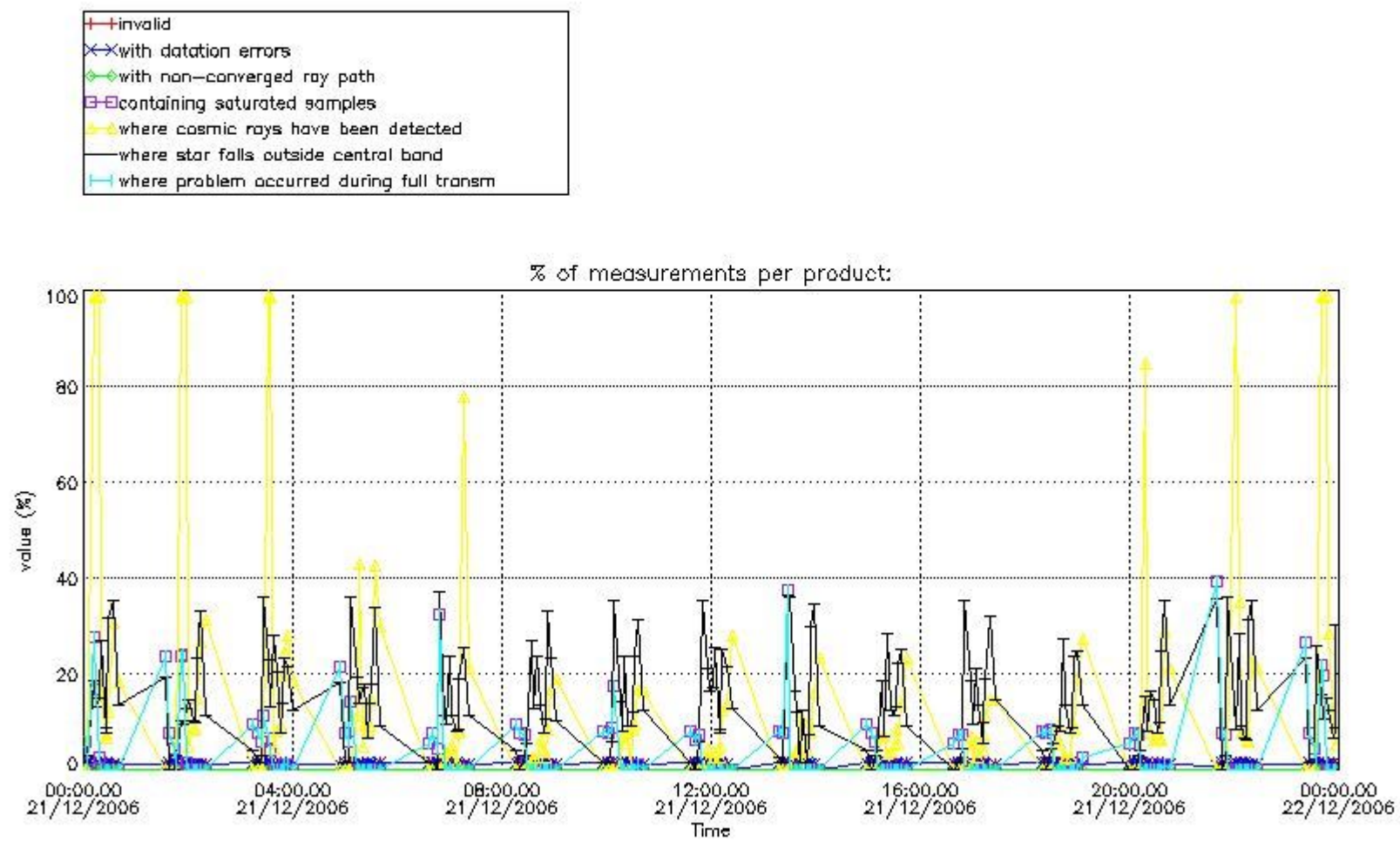


#### 4. Level 1 quality information per product

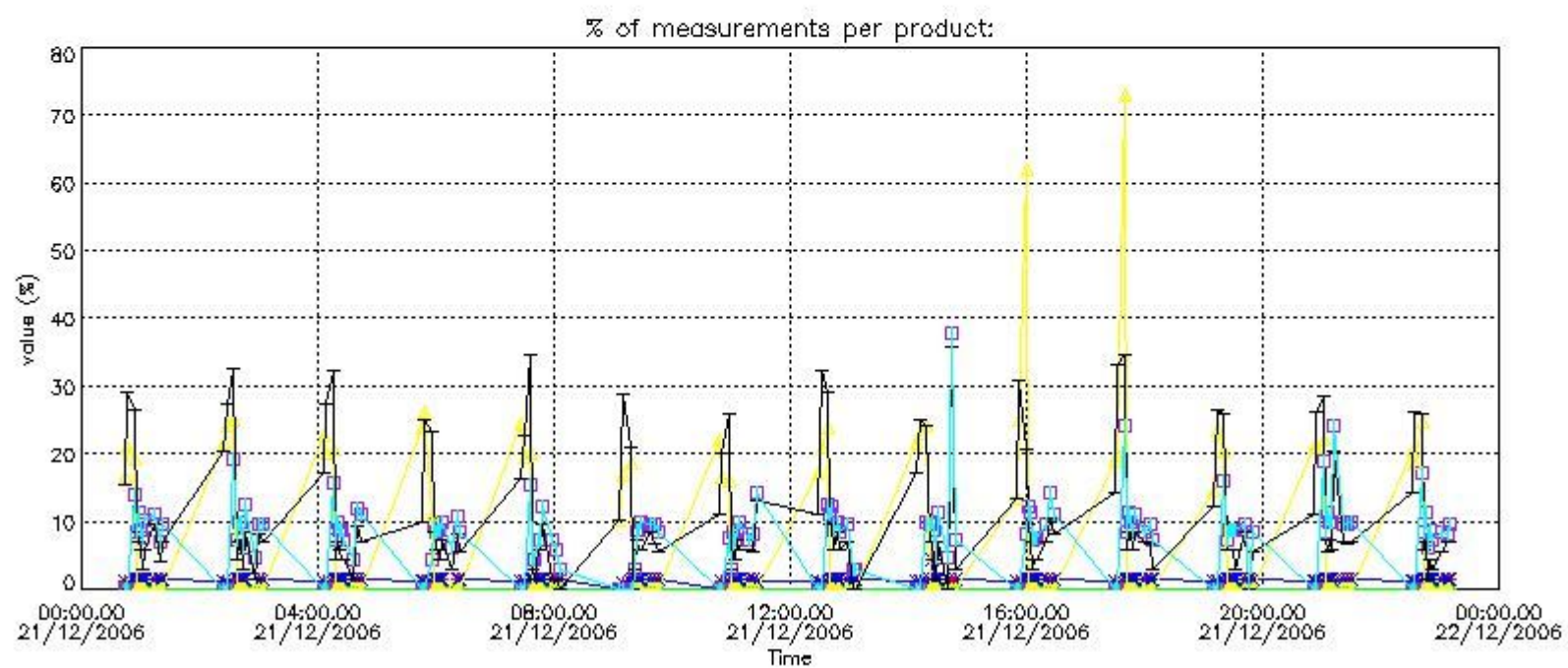
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

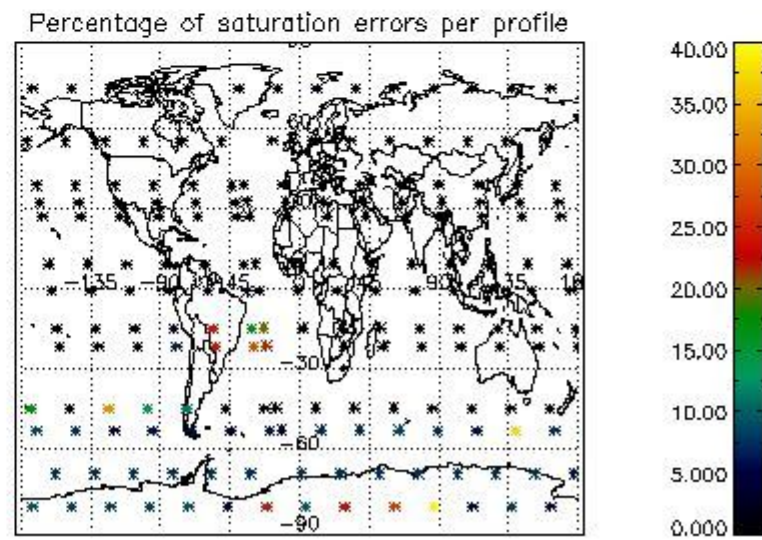
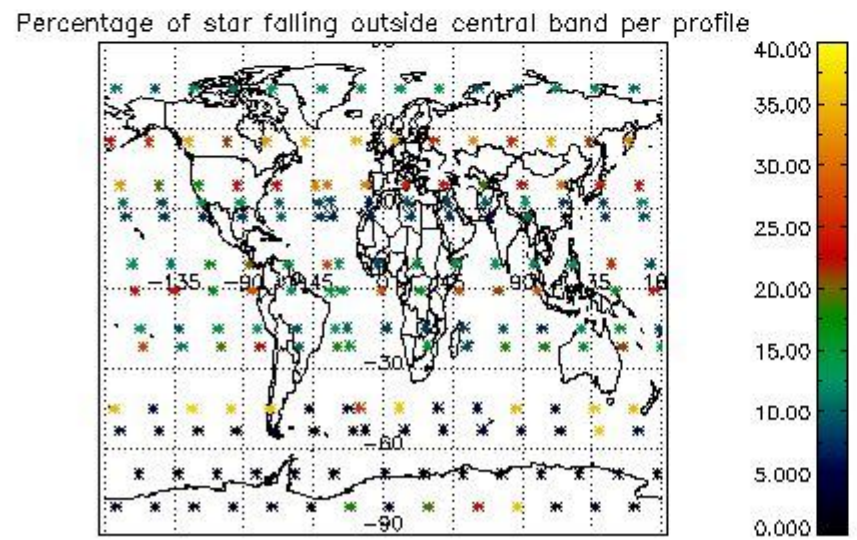
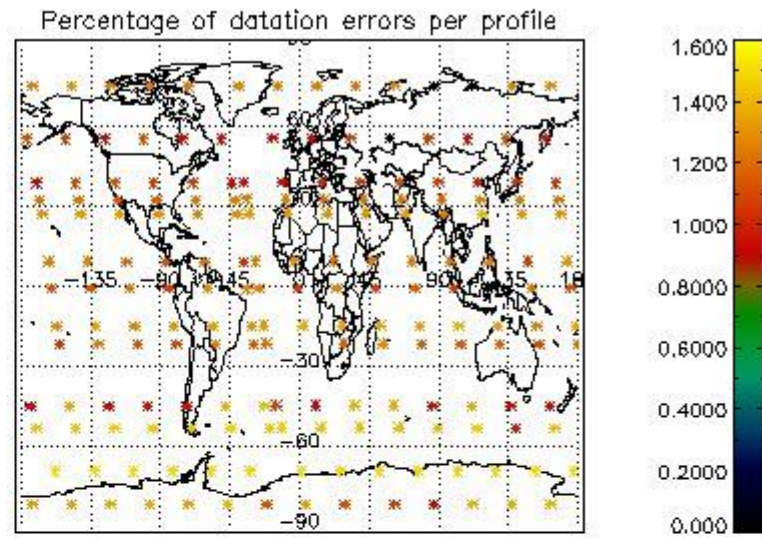
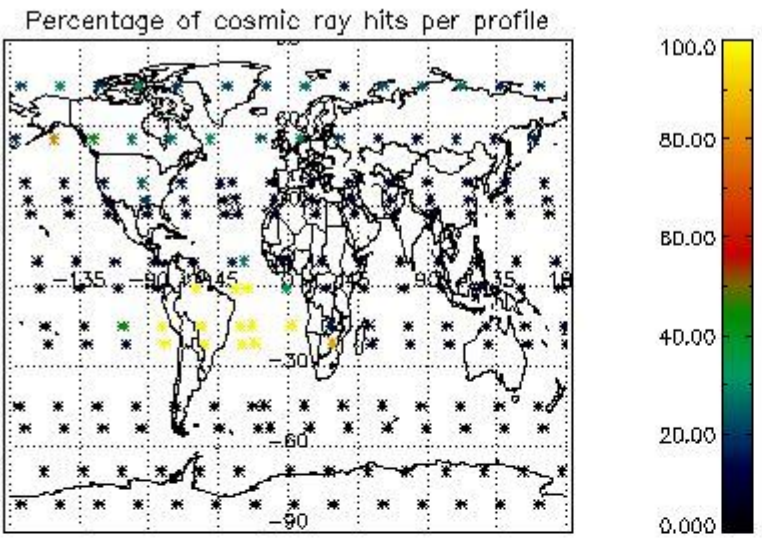


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

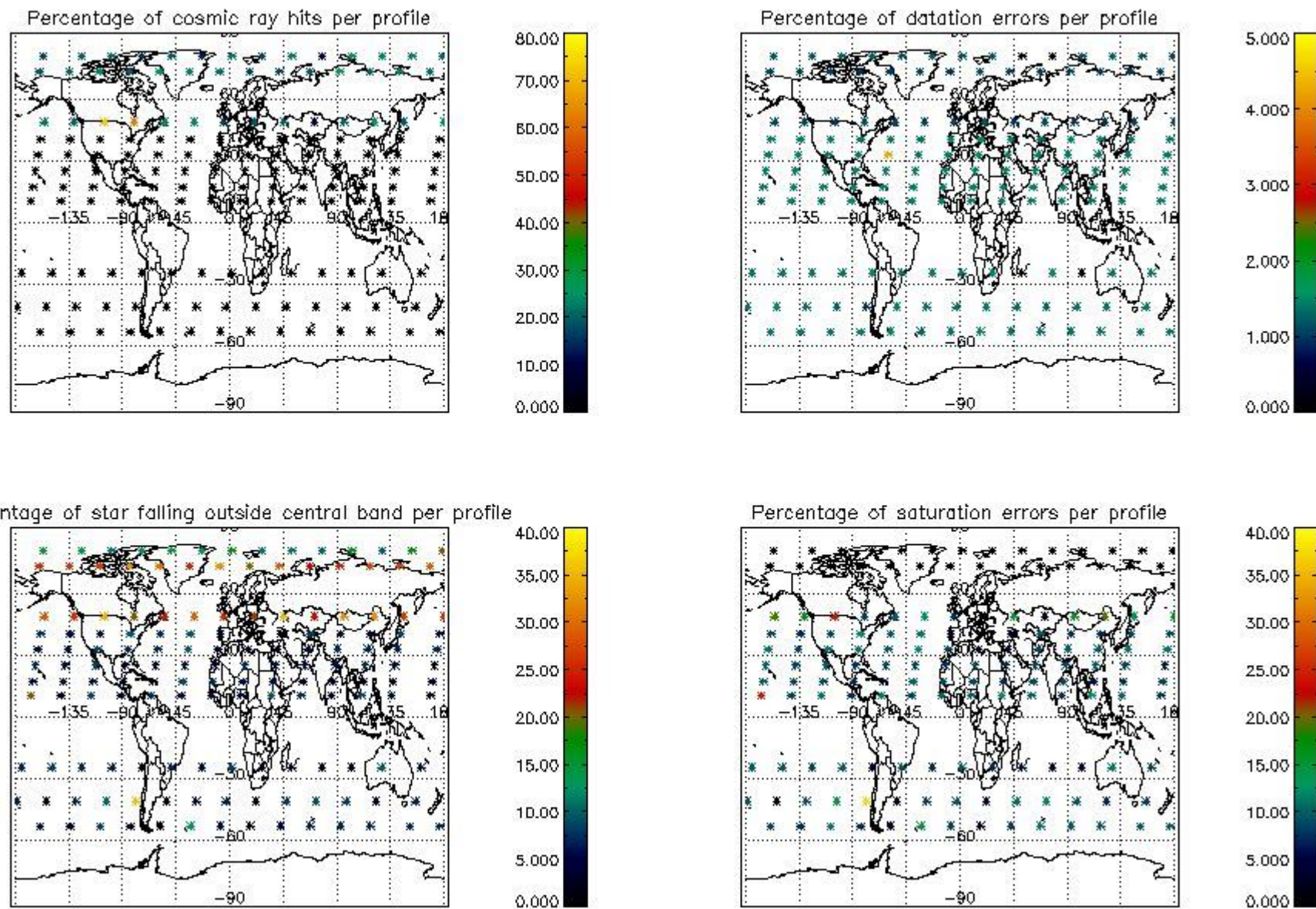


#### 4.2 Plot quality information per product coming from level 1b processing (world map)

##### 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

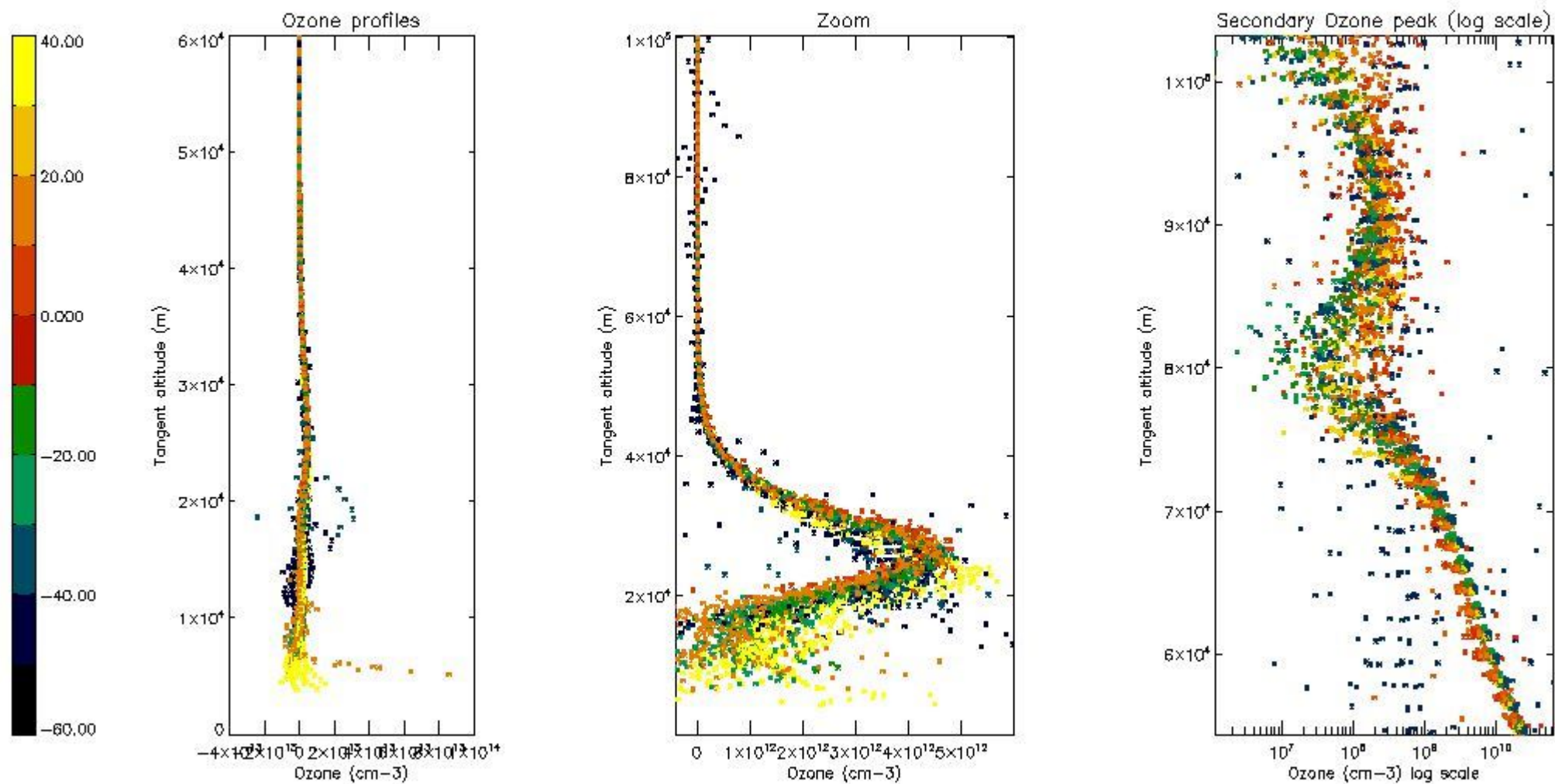
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	38
STD < 20	21

STD < 10	15
STD < 5	9

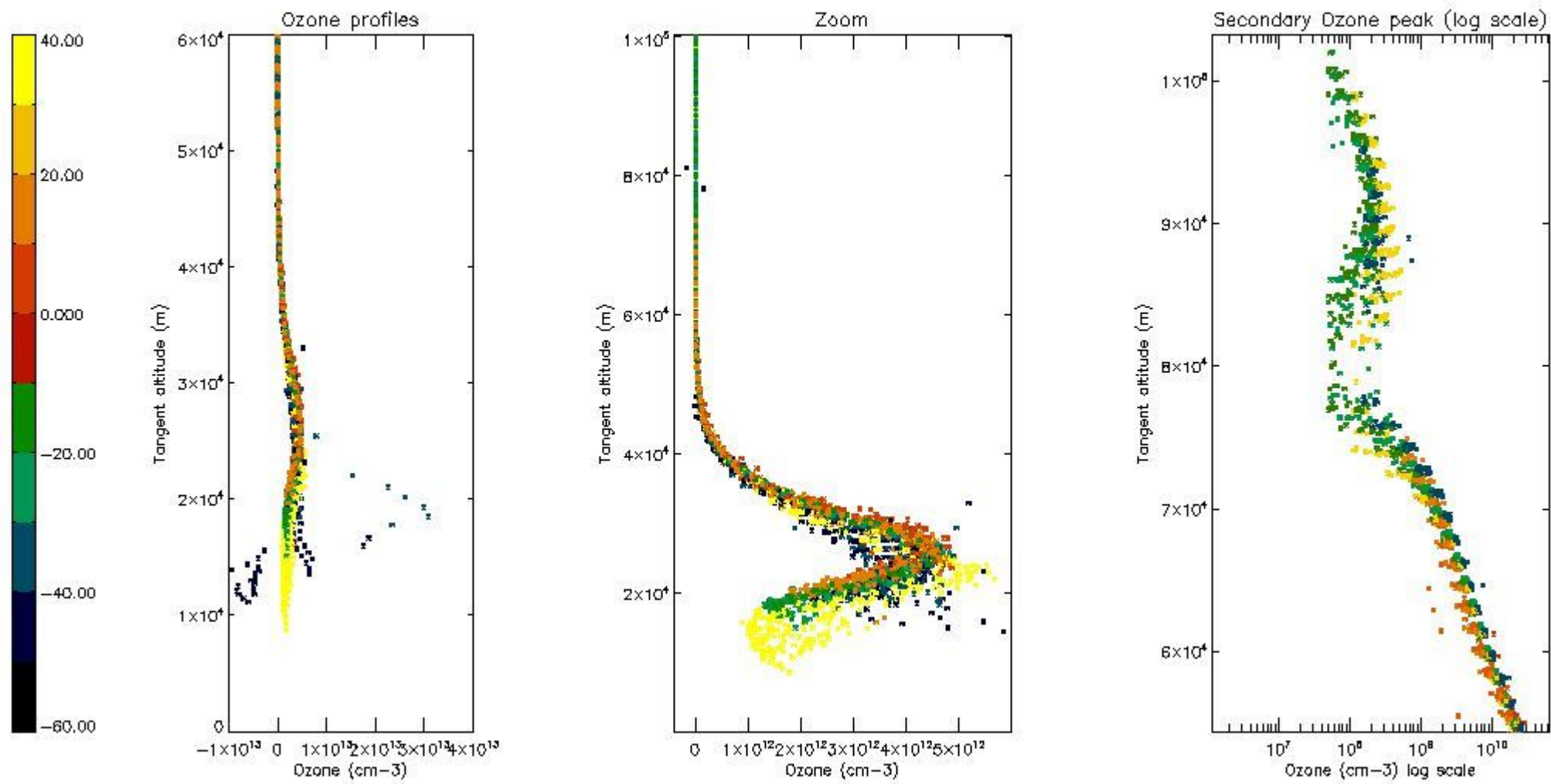
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



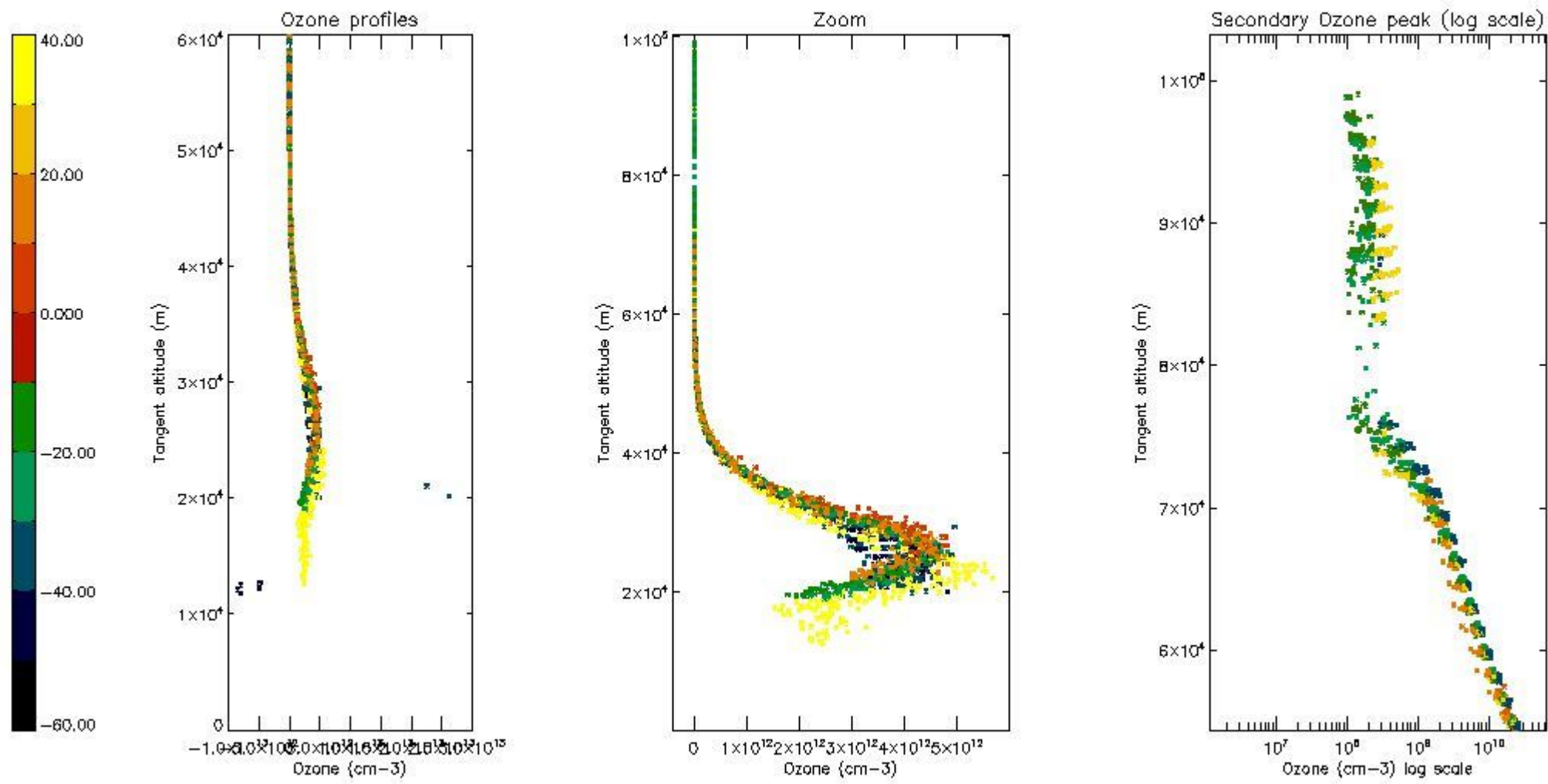
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



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

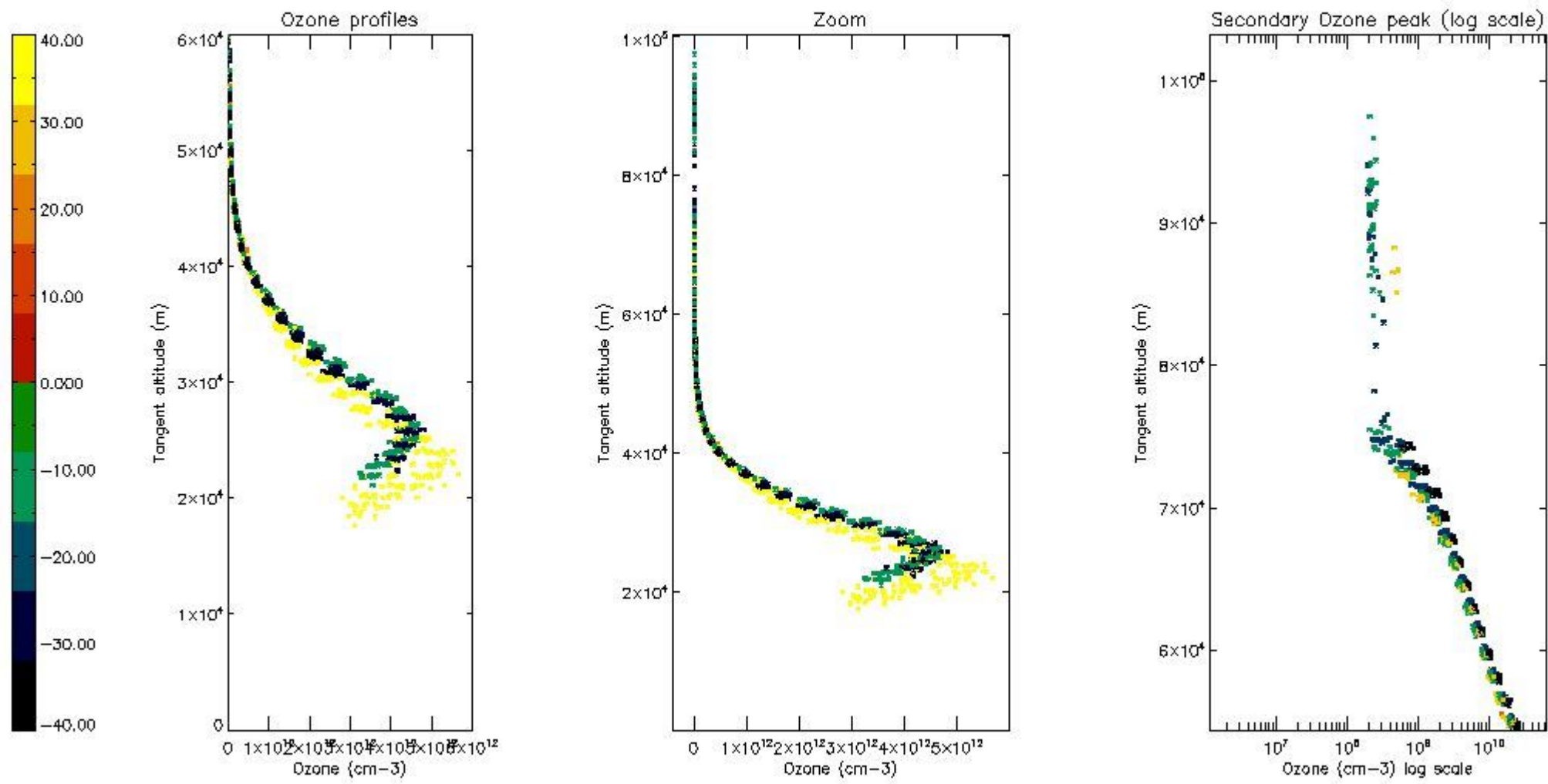
The colorbar represents the latitude.



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

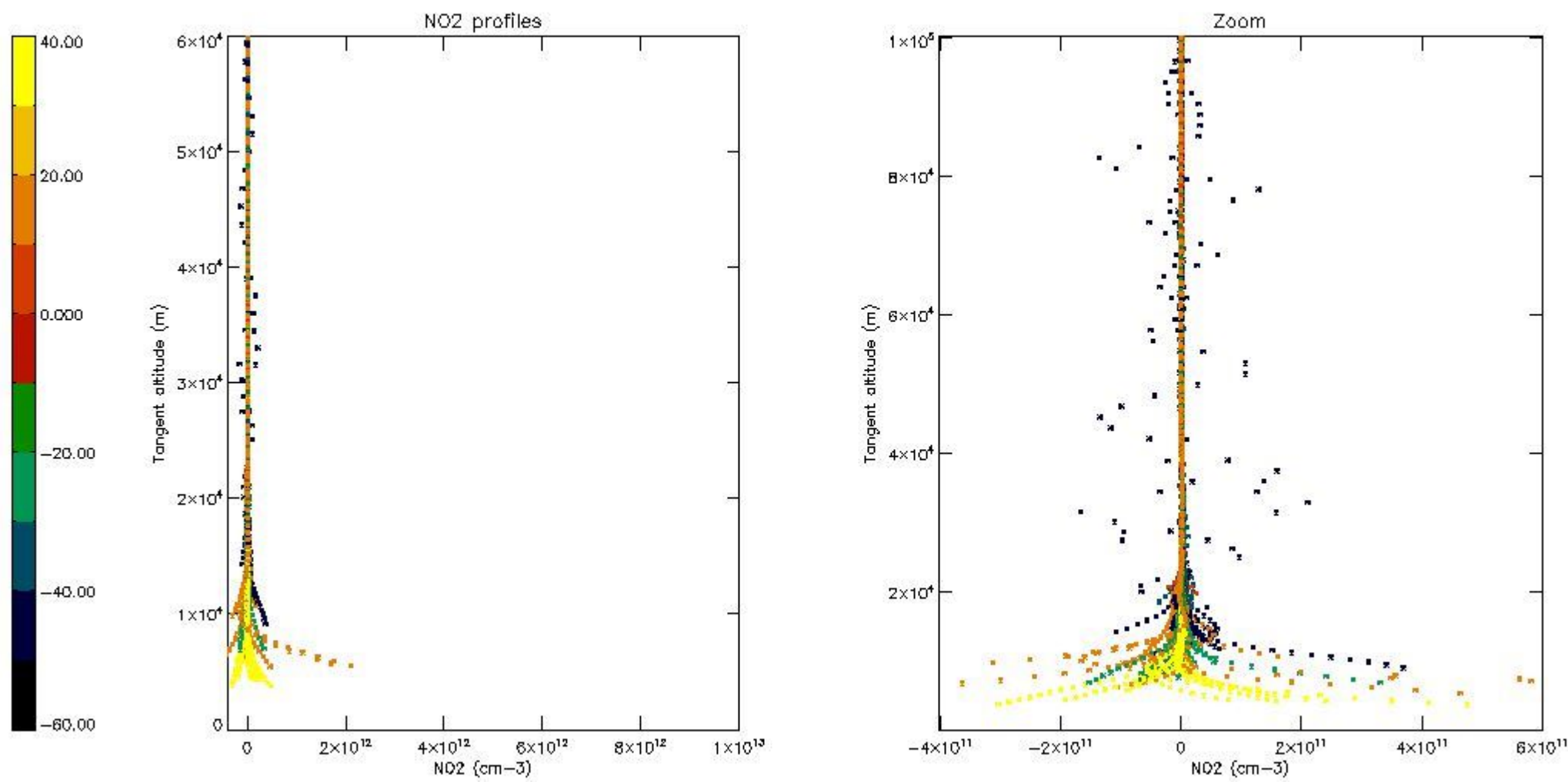
The colorbar represents the latitude.





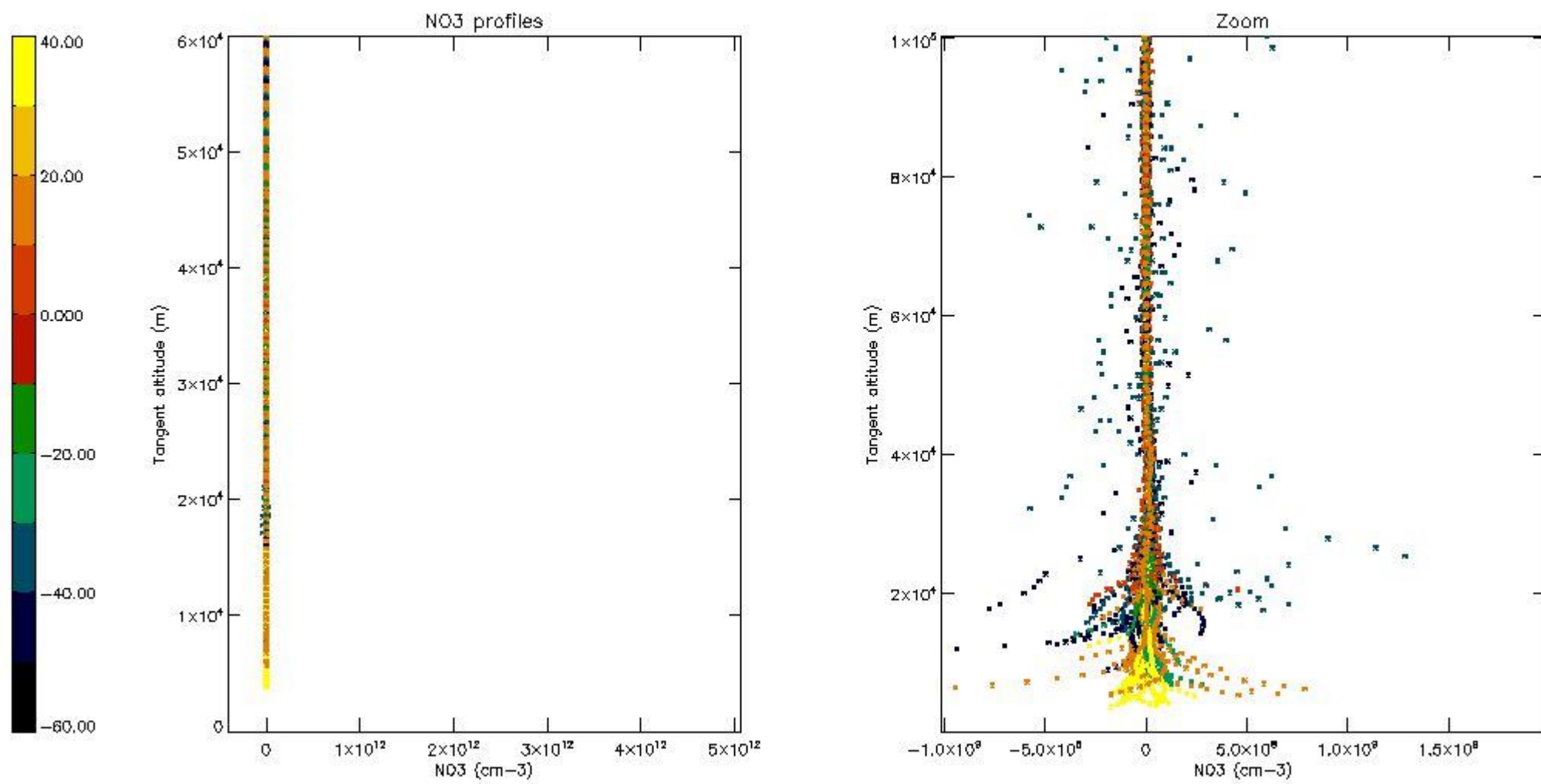
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



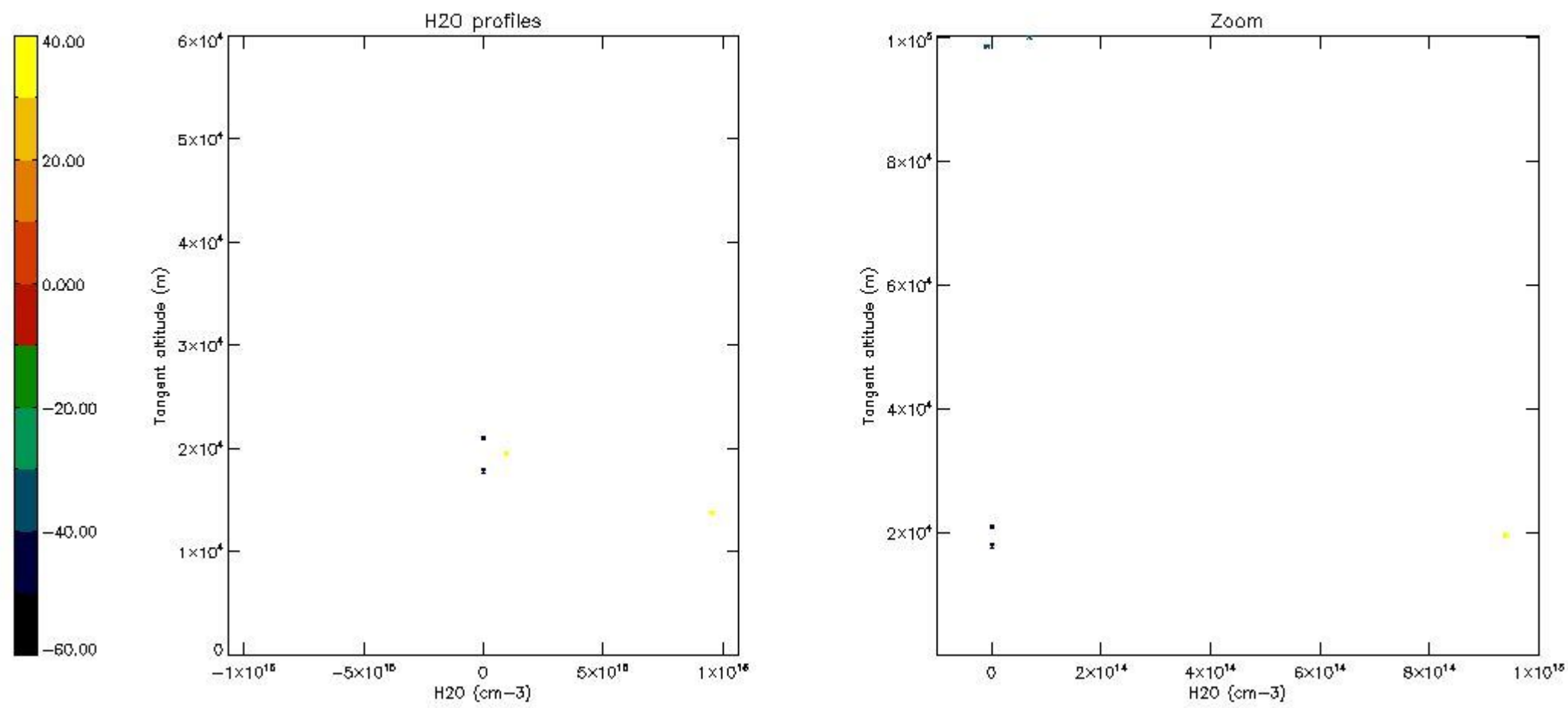
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



5.8 Plot H<sub>2</sub>O profiles for all STD (only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors)

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	21-DEC-2006 00:02:35
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	21-DEC-2006 00:02:35
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	21-DEC-2006 00:02:35

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Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20061221_000235_000000352054_00030_25134_0681.N1	21-DEC-2006 00:02:35	Bright	34.500	104	27Bet Lib	2.6140	13100.	69	25134	No
2	GOM_NL__2PRFIN20061221_000455_000000362054_00030_25134_0682.N1	21-DEC-2006 00:04:55	Bright	35.500	122	9Alp2Lib	2.7470	9700.0	71	25134	No
3	GOM_NL__2PRFIN20061221_001127_000000442054_00030_25134_0683.N1	21-DEC-2006 00:11:27	Dark	43.500	54	5The Cen	2.0550	4500.0	87	25134	No
4	GOM_NL__2PRFIN20061221_001323_000000392054_00030_25134_0684.N1	21-DEC-2006 00:13:23	Dark	38.500	78	Alp Lup	2.3040	28000.	77	25134	No
5	GOM_NL__2PRFIN20061221_001718_000000402054_00030_25134_0685.N1	21-DEC-2006 00:17:18	Dark	40.000	10	Bet Cen	0.61000	28000.	80	25134	No
6	GOM_NL__2PRFIN20061221_002007_000000492054_00031_25135_0662.N1	21-DEC-2006 00:20:07	Dark	48.500	12	Alp1Cru	0.77500	30000.	97	25135	No
7	GOM_NL__2PRFIN20061221_002505_000000392054_00031_25135_0663.N1	21-DEC-2006 00:25:05	Dark	39.000	159	Ups Car	2.9200	7200.0	78	25135	No
8	GOM_NL__2PRFIN20061221_002634_000000412054_00031_25135_0664.N1	21-DEC-2006 00:26:34	Dark	40.500	71	Iot Car	2.2460	7700.0	81	25135	No
9	GOM_NL__2PRFIN20061221_002823_000000542054_00031_25135_0665.N1	21-DEC-2006 00:28:23	Dark	54.000	41	Eps Car	1.8600	4100.0	108	25135	No
10	GOM_NL__2PRFIN20061221_003305_000000542054_00031_25135_0666.N1	21-DEC-2006 00:33:05	Dark	54.000	2	Alp Car	-0.73600	7000.0	108	25135	No
11	GOM_NL__2PRFIN20061221_003900_000000412054_00031_25135_0667.N1	21-DEC-2006 00:39:00	Straylight	41.000	108	Alp Col	2.6520	15200.	82	25135	No
12	GOM_NL__2PRFIN20061221_004350_000000432054_00031_25135_0668.N1	21-DEC-2006 00:43:50	Straylight	42.500	101	11Alp Lep	2.5820	7000.0	85	25135	No
13	GOM_NL__2PRFIN20061221_004649_000000502054_00031_25135_0669.N1	21-DEC-2006 00:46:49	Straylight	50.000	7	19Bet Ori	0.10000	14000.	100	25135	No
14	GOM_NL__2PRFIN20061221_005404_000000472054_00031_25135_0670.N1	21-DEC-2006 00:54:04	Twilight_and_stray	47.000	13	87Alp Tau	0.86700	3800.0	94	25135	No
15	GOM_NL__2PRFIN20061221_005624_000000362054_00031_25135_0671.N1	21-DEC-2006 00:56:24	Bright	35.500	146	25Eta Tau	2.8730	15200.	71	25135	No
16	GOM_NL__2PRFIN20061221_005831_000000362054_00031_25135_0672.N1	21-DEC-2006 00:58:31	Bright	35.500	150	44Zet Per	2.8900	28000.	71	25135	No
17	GOM_NL__2PRFIN20061221_010045_000000342054_00031_25135_0673.N1	21-DEC-2006 01:00:45	Bright	34.000	149	45Eps Per	2.8880	30000.	68	25135	No
18	GOM_NL__2PRFIN20061221_010259_000000342054_00031_25135_0674.N1	21-DEC-2006 01:02:59	Bright	33.500	175	39Del Per	3.0100	19400.	67	25135	No
19	GOM_NL__2PRFIN20061221_010452_000000352054_00031_25135_0675.N1	21-DEC-2006 01:04:52	Bright	34.500	160	23Gam Per	2.9300	4700.0	69	25135	No
20	GOM_NL__2PRFIN20061221_011437_000000372054_00031_25135_0676.N1	21-DEC-2006 01:14:37	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	25135	No
21	GOM_NL__2PRFIN20061221_011917_000000362054_00031_25135_0677.N1	21-DEC-2006 01:19:17	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	25135	No
22	GOM_NL__2PRFIN20061221_012244_000000362054_00031_25135_0678.N1	21-DEC-2006 01:22:44	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	25135	No
23	GOM_NL__2PRFIN20061221_013318_000000452054_00031_25135_0679.N1	21-DEC-2006 01:33:18	Bright	44.500	83		2.3780	11000.	89	25135	No
24	GOM_NL__2PRFIN20061221_013826_000000342054_00031_25135_0680.N1	21-DEC-2006 01:38:26	Bright	33.500	102	24Alp Ser	2.6000	4250.0	67	25135	No
25	GOM_NL__2PRFIN20061221_014311_000000342054_00031_25135_0681.N1	21-DEC-2006 01:43:11	Bright	34.000	104	27Bet Lib	2.6140	13100.	68	25135	No
26	GOM_NL__2PRFIN20061221_014531_000000362054_00031_25135_0682.N1	21-DEC-2006 01:45:31	Bright	36.000	122	9Alp2Lib	2.7470	9700.0	72	25135	No
27	GOM_NL__2PRFIN20061221_015204_000000402054_00031_25135_0683.N1	21-DEC-2006 01:52:04	Dark	40.000	54	5The Cen	2.0550	4500.0	80	25135	No
28	GOM_NL__2PRFIN20061221_015359_000000382054_00031_25135_0684.N1	21-DEC-2006 01:53:59	Dark	37.500	78	Alp Lup	2.3040	28000.	75	25135	No
29	GOM_NL__2PRFIN20061221_015755_000000392054_00031_25135_0685.N1	21-DEC-2006 01:57:55	Dark	39.000	10	Bet Cen	0.61000	28000.	78	25135	No
30	GOM_NL__2PRFIN20061221_020043_000000412054_00032_25136_0662.N1	21-DEC-2006 02:00:43	Dark	41.000	12	Alp1Cru	0.77500	30000.	82	25136	No
31	GOM_NL__2PRFIN20061221_020542_000000402054_00032_25136_0663.N1	21-DEC-2006 02:05:42	Dark	40.000	159	Ups Car	2.9200	7200.0	80	25136	No
32	GOM_NL__2PRFIN20061221_020710_000000412054_00032_25136_0664.N1	21-DEC-2006 02:07:10	Dark	41.000	71	Iot Car	2.2460	7700.0	82	25136	No
33	GOM_NL__2PRFIN20061221_020900_000000482054_00032_25136_0665.N1	21-DEC-2006 02:09:00	Dark	47.500	41	Eps Car	1.8600	4100.0	95	25136	No
34	GOM_NL__2PRFIN20061221_021341_000000532054_00032_25136_0666.N1	21-DEC-2006 02:13:41	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	25136	No
35	GOM_NL__2PRFIN20061221_021936_000000402054_00032_25136_0667.N1	21-DEC-2006 02:19:36	Straylight	40.000	108	Alp Col	2.6520	15200.	80	25136	No
36	GOM_NL__2PRFIN20061221_022426_000000472054_00032_25136_0668.N1	21-DEC-2006 02:24:26	Straylight	46.500	101	11Alp Lep	2.5820	7000.0	93	25136	No
37	GOM_NL__2PRFIN20061221_022725_000000502054_00032_25136_0669.N1	21-DEC-2006 02:27:25	Straylight	49.500	7	19Bet Ori	0.10000	14000.	99	25136	No
38	GOM_NL__2PRFIN20061221_023440_000000522054_00032_25136_0670.N1	21-DEC-2006 02:34:40	Twilight_and_stray	52.000	13	87Alp Tau	0.86700	3800.0	104	25136	No
39	GOM_NL__2PRFIN20061221_023701_000000352054_00032_25136_0671.N1	21-DEC-2006 02:37:01	Bright	35.000	146	25Eta Tau	2.8730	15200.	70	25136	No
40	GOM_NL__2PRFIN20061221_023907_000000362054_00032_25136_0672.N1	21-DEC-2006 02:39:07	Bright	35.500	150	44Zet Per	2.8900	28000.	71	25136	No
41	GOM_NL__2PRFIN20061221_024121_000000352054_00032_25136_0673.N1	21-DEC-2006 02:41:21	Bright	35.000	149	45Eps Per	2.8880	30000.	70	25136	No
42	GOM_NL__2PRFIN20061221_024335_000000342054_00032_25136_0674.N1	21-DEC-2006 02:43:35	Bright	33.500	175	39Del Per	3.0100	19400.	67	25136	No

43	GOM_NL__2PRFIN20061221_024528_000000362054_00032_25136_0675.N1	21-DEC-2006 02:45:28	Bright	36.000	160	23Gam Per	2.9300	4700.0	72	25136	No
44	GOM_NL__2PRFIN20061221_025513_000000332054_00032_25136_0676.N1	21-DEC-2006 02:55:13	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	25136	No
45	GOM_NL__2PRFIN20061221_025953_000000372054_00032_25136_0677.N1	21-DEC-2006 02:59:53	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	25136	No
46	GOM_NL__2PRFIN20061221_030320_000000362054_00032_25136_0678.N1	21-DEC-2006 03:03:20	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	25136	No
47	GOM_NL__2PRFIN20061221_031354_000000382054_00032_25136_0679.N1	21-DEC-2006 03:13:54	Bright	37.500	83		2.3780	11000.	75	25136	No
48	GOM_NL__2PRFIN20061221_031902_000000342054_00032_25136_0680.N1	21-DEC-2006 03:19:02	Bright	33.500	102	24Alp Ser	2.6000	4250.0	67	25136	No
49	GOM_NL__2PRFIN20061221_032347_000000352054_00032_25136_0681.N1	21-DEC-2006 03:23:47	Bright	34.500	104	27Bet Lib	2.6140	13100.	69	25136	No
50	GOM_NL__2PRFIN20061221_032608_000000532054_00032_25136_0682.N1	21-DEC-2006 03:26:08	Bright	53.000	122	9Alp2Lib	2.7470	9700.0	106	25136	No
51	GOM_NL__2PRFIN20061221_033240_000000462054_00032_25136_0683.N1	21-DEC-2006 03:32:40	Dark	46.000	54	5The Cen	2.0550	4500.0	92	25136	No
52	GOM_NL__2PRFIN20061221_033435_000000392054_00032_25136_0684.N1	21-DEC-2006 03:34:35	Dark	38.500	78	Alp Lup	2.3040	28000.	77	25136	No
53	GOM_NL__2PRFIN20061221_033831_000000472054_00032_25136_0685.N1	21-DEC-2006 03:38:31	Dark	46.500	10	Bet Cen	0.61000	28000.	93	25136	No
54	GOM_NL__2PRFIN20061221_034120_000000452054_00033_25137_0662.N1	21-DEC-2006 03:41:20	Dark	44.500	12	Alp1Cru	0.77500	30000.	89	25137	No
55	GOM_NL__2PRFIN20061221_034618_000000392054_00033_25137_0663.N1	21-DEC-2006 03:46:18	Dark	38.500	159	Ups Car	2.9200	7200.0	77	25137	No
56	GOM_NL__2PRFIN20061221_034747_000000432054_00033_25137_0664.N1	21-DEC-2006 03:47:47	Dark	43.000	71	lot Car	2.2460	7700.0	86	25137	No
57	GOM_NL__2PRFIN20061221_034936_000000482054_00033_25137_0665.N1	21-DEC-2006 03:49:36	Dark	47.500	41	Eps Car	1.8600	4100.0	95	25137	No
58	GOM_NL__2PRFIN20061221_035417_000000452054_00033_25137_0666.N1	21-DEC-2006 03:54:17	Dark	44.500	2	Alp Car	-0.73600	7000.0	89	25137	No
59	GOM_NL__2PRFIN20061221_040012_000000412054_00033_25137_0667.N1	21-DEC-2006 04:00:12	Straylight	40.500	108	Alp Col	2.6520	15200.	81	25137	No
60	GOM_NL__2PRFIN20061221_040502_000000442054_00033_25137_0668.N1	21-DEC-2006 04:05:02	Straylight	44.000	101	11Alp Lep	2.5820	7000.0	88	25137	No
61	GOM_NL__2PRFIN20061221_040801_000000502054_00033_25137_0669.N1	21-DEC-2006 04:08:01	Straylight	49.500	7	19Bet Ori	0.10000	14000.	99	25137	No
62	GOM_NL__2PRFIN20061221_041516_000000512054_00033_25137_0670.N1	21-DEC-2006 04:15:16	Tw_i_and_stray	51.000	13	87Alp Tau	0.86700	3800.0	102	25137	No
63	GOM_NL__2PRFIN20061221_041737_000000352054_00033_25137_0671.N1	21-DEC-2006 04:17:37	Bright	35.000	146	25Eta Tau	2.8730	15200.	70	25137	No
64	GOM_NL__2PRFIN20061221_041943_000000362054_00033_25137_0672.N1	21-DEC-2006 04:19:43	Bright	35.500	150	44Zet Per	2.8900	28000.	71	25137	No
65	GOM_NL__2PRFIN20061221_042157_000000352054_00033_25137_0673.N1	21-DEC-2006 04:21:57	Bright	34.500	149	45Eps Per	2.8880	30000.	69	25137	No
66	GOM_NL__2PRFIN20061221_042411_000000352054_00033_25137_0674.N1	21-DEC-2006 04:24:11	Bright	34.500	175	39Del Per	3.0100	19400.	69	25137	No
67	GOM_NL__2PRFIN20061221_042604_000000352054_00033_25137_0675.N1	21-DEC-2006 04:26:04	Bright	34.500	160	23Gam Per	2.9300	4700.0	69	25137	No
68	GOM_NL__2PRFIN20061221_043549_000000342054_00033_25137_0676.N1	21-DEC-2006 04:35:49	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	25137	No
69	GOM_NL__2PRFIN20061221_044029_000000382054_00033_25137_0677.N1	21-DEC-2006 04:40:29	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	25137	No
70	GOM_NL__2PRFIN20061221_044356_000000372054_00033_25137_0678.N1	21-DEC-2006 04:43:56	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	25137	No
71	GOM_NL__2PRFIN20061221_045430_000000442054_00033_25137_0679.N1	21-DEC-2006 04:54:30	Bright	44.000	83		2.3780	11000.	88	25137	No
72	GOM_NL__2PRFIN20061221_045938_000000342054_00033_25137_0680.N1	21-DEC-2006 04:59:38	Bright	33.500	102	24Alp Ser	2.6000	4250.0	67	25137	No
73	GOM_NL__2PRFIN20061221_050423_000000352054_00033_25137_0681.N1	21-DEC-2006 05:04:23	Bright	34.500	104	27Bet Lib	2.6140	13100.	69	25137	No
74	GOM_NL__2PRFIN20061221_050644_000000532054_00033_25137_0682.N1	21-DEC-2006 05:06:44	Bright	53.000	122	9Alp2Lib	2.7470	9700.0	106	25137	No
75	GOM_NL__2PRFIN20061221_051317_000000452054_00033_25137_0683.N1	21-DEC-2006 05:13:17	Dark	44.500	54	5The Cen	2.0550	4500.0	89	25137	No
76	GOM_NL__2PRFIN20061221_051511_000000402054_00033_25137_0684.N1	21-DEC-2006 05:15:11	Dark	39.500	78	Alp Lup	2.3040	28000.	79	25137	No
77	GOM_NL__2PRFIN20061221_051907_000000412054_00033_25137_0685.N1	21-DEC-2006 05:19:07	Dark	41.000	10	Bet Cen	0.61000	28000.	82	25137	No
78	GOM_NL__2PRFIN20061221_052156_000000432054_00034_25138_0662.N1	21-DEC-2006 05:21:56	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	25138	No
79	GOM_NL__2PRFIN20061221_052655_000000382054_00034_25138_0663.N1	21-DEC-2006 05:26:55	Dark	38.000	159	Ups Car	2.9200	7200.0	76	25138	No
80	GOM_NL__2PRFIN20061221_052823_000000442054_00034_25138_0664.N1	21-DEC-2006 05:28:23	Dark	43.500	71	lot Car	2.2460	7700.0	87	25138	No
81	GOM_NL__2PRFIN20061221_053013_000000452054_00034_25138_0665.N1	21-DEC-2006 05:30:13	Dark	44.500	41	Eps Car	1.8600	4100.0	89	25138	No
82	GOM_NL__2PRFIN20061221_053454_000000532054_00034_25138_0666.N1	21-DEC-2006 05:34:54	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	25138	No
83	GOM_NL__2PRFIN20061221_054048_000000392054_00034_25138_0667.N1	21-DEC-2006 05:40:48	Straylight	38.500	108	Alp Col	2.6520	15200.	77	25138	No
84	GOM_NL__2PRFIN20061221_054538_000000402054_00034_25138_0668.N1	21-DEC-2006 05:45:38	Straylight	40.000	101	11Alp Lep	2.5820	7000.0	80	25138	No
85	GOM_NL__2PRFIN20061221_054837_000000482054_00034_25138_0669.N1	21-DEC-2006 05:48:37	Straylight	48.000	7	19Bet Ori	0.10000	14000.	96	25138	No
86	GOM_NL__2PRFIN20061221_055552_000000452054_00034_25138_0670.N1	21-DEC-2006 05:55:52	Tw_i_and_stray	45.000	13	87Alp Tau	0.86700	3800.0	90	25138	No
87	GOM_NL__2PRFIN20061221_055813_000000362054_00034_25138_0671.N1	21-DEC-2006 05:58:13	Bright	36.000	146	25Eta Tau	2.8730	15200.	72	25138	No
88	GOM_NL__2PRFIN20061221_060019_000000352054_00034_25138_0672.N1	21-DEC-2006 06:00:19	Bright	35.000	150	44Zet Per	2.8900	28000.	70	25138	No
89	GOM_NL__2PRFIN20061221_060233_000000352054_00034_25138_0673.N1	21-DEC-2006 06:02:33	Bright	34.500	149	45Eps Per	2.8880	30000.	69	25138	No
90	GOM_NL__2PRFIN20061221_060447_000000352054_00034_25138_0674.N1	21-DEC-2006 06:04:47	Bright	34.500	175	39Del Per	3.0100	19400.	69	25138	No
91	GOM_NL__2PRFIN20061221_060640_000000352054_00034_25138_0675.N1	21-DEC-2006 06:06:40	Bright	35.000	160	23Gam Per	2.9300	4700.0	70	25138	No
92	GOM_NL__2PRFIN20061221_061625_000000342054_00034_25138_0676.N1	21-DEC-2006 06:16:25	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	25138	No
93	GOM_NL__2PRFIN20061221_062105_000000382054_00034_25138_0677.N1	21-DEC-2006 06:21:05	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	25138	No
94	GOM_NL__2PRFIN20061221_062432_000000362054_00034_25138_0678.N1	21-DEC-2006 06:24:32	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	25138	No
95	GOM_NL__2PRFIN20061221_063507_000000362054_00034_25138_0679.N1	21-DEC-2006 06:35:07	Bright	36.000	83		2.3780	11000.	72	25138	No
96	GOM_NL__2PRFIN20061221_064014_000000342054_00034_25138_0680.N1	21-DEC-2006 06:40:14	Bright	33.500	102	24Alp Ser	2.6000	4250.0	67	25138	No
97	GOM_NL__2PRFIN20061221_064500_000000342054_00034_25138_0681.N1	21-DEC-2006 06:45:00	Bright	34.000	104	27Bet Lib	2.6140	13100.	68	25138	No
98	GOM_NL__2PRFIN20061221_064720_000000542054_00034_25138_0682.N1	21-DEC-2006 06:47:20	Bright	54.000	122	9Alp2Lib	2.7470	9700.0	108	25138	No
99	GOM_NL__2PRFIN20061221_065353_000000412054_00034_25138_0683.N1	21-DEC-2006 06:53:53	Dark	40.500	54	5The Cen	2.0550	4500.0	81	25138	No
100	GOM_NL__2PRFIN20061221_065548_000000382054_00034_25138_0684.N1	21-DEC-2006 06:55:48	Dark	37.500	78	Alp Lup	2.3040	28000.	75	25138	No
101	GOM_NL__2PRFIN20061221_065943_000000452054_00034_25138_0685.N1	21-DEC-2006 06:59:43	Dark	44.500	10	Bet Cen	0.61000	28000.	89	25138	No

102	GOM_NL__2PRFIN20061221_070232_000000402054_00035_25139_0662.N1	21-DEC-2006 07:02:32	Dark	39.500	12	Alp1Cru	0.77500	30000.	79	25139	No
103	GOM_NL__2PRFIN20061221_070731_000000382054_00035_25139_0663.N1	21-DEC-2006 07:07:31	Dark	38.000	159	Ups Car	2.9200	7200.0	76	25139	No
104	GOM_NL__2PRFIN20061221_070900_000000412054_00035_25139_0664.N1	21-DEC-2006 07:09:00	Dark	41.000	71	Iot Car	2.2460	7700.0	82	25139	No
105	GOM_NL__2PRFIN20061221_071049_000000452054_00035_25139_0665.N1	21-DEC-2006 07:10:49	Dark	45.000	41	Eps Car	1.8600	4100.0	90	25139	No
106	GOM_NL__2PRFIN20061221_071530_000000472054_00035_25139_0666.N1	21-DEC-2006 07:15:30	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	25139	No
107	GOM_NL__2PRFIN20061221_072124_000000402054_00035_25139_0667.N1	21-DEC-2006 07:21:24	Straylight	40.000	108	Alp Col	2.6520	15200.	80	25139	No
108	GOM_NL__2PRFIN20061221_072614_000000432054_00035_25139_0668.N1	21-DEC-2006 07:26:14	Straylight	43.000	101	11Alp Lep	2.5820	7000.0	86	25139	No
109	GOM_NL__2PRFIN20061221_072913_000000472054_00035_25139_0669.N1	21-DEC-2006 07:29:13	Straylight	46.500	7	19Bet Ori	0.10000	14000.	93	25139	No
110	GOM_NL__2PRFIN20061221_073628_000000522054_00035_25139_0670.N1	21-DEC-2006 07:36:28	Twi_and_stray	52.000	13	87Alp Tau	0.86700	3800.0	104	25139	No
111	GOM_NL__2PRFIN20061221_073849_000000342054_00035_25139_0671.N1	21-DEC-2006 07:38:49	Bright	34.000	146	25Eta Tau	2.8730	15200.	68	25139	No
112	GOM_NL__2PRFIN20061221_074055_000000342054_00035_25139_0672.N1	21-DEC-2006 07:40:55	Bright	33.500	150	44Zet Per	2.8900	28000.	67	25139	No
113	GOM_NL__2PRFIN20061221_074309_000000352054_00035_25139_0673.N1	21-DEC-2006 07:43:09	Bright	34.500	149	45Eps Per	2.8880	30000.	69	25139	No
114	GOM_NL__2PRFIN20061221_074523_000000342054_00035_25139_0674.N1	21-DEC-2006 07:45:23	Bright	34.000	175	39Del Per	3.0100	19400.	68	25139	No
115	GOM_NL__2PRFIN20061221_074716_000000372054_00035_25139_0675.N1	21-DEC-2006 07:47:16	Bright	36.500	160	23Gam Per	2.9300	4700.0	73	25139	No
116	GOM_NL__2PRFIN20061221_075701_000000352054_00035_25139_0676.N1	21-DEC-2006 07:57:01	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	25139	No
117	GOM_NL__2PRFIN20061221_080141_000000352054_00035_25139_0677.N1	21-DEC-2006 08:01:41	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	25139	No
118	GOM_NL__2PRFIN20061221_080508_000000342054_00035_25139_0678.N1	21-DEC-2006 08:05:08	Bright	33.500	119	14Eta Dra	2.7270	4700.0	67	25139	No
119	GOM_NL__2PRFIN20061221_081543_000000382054_00035_25139_0679.N1	21-DEC-2006 08:15:43	Bright	37.500	83		2.3780	11000.	75	25139	No
120	GOM_NL__2PRFIN20061221_082050_000000342054_00035_25139_0680.N1	21-DEC-2006 08:20:50	Bright	33.500	102	24Alp Ser	2.6000	4250.0	67	25139	No
121	GOM_NL__2PRFIN20061221_082536_000000352054_00035_25139_0681.N1	21-DEC-2006 08:25:36	Bright	35.000	104	27Bet Lib	2.6140	13100.	70	25139	No
122	GOM_NL__2PRFIN20061221_082757_000000372054_00035_25139_0682.N1	21-DEC-2006 08:27:57	Bright	37.000	122	9Alp2Lib	2.7470	9700.0	74	25139	No
123	GOM_NL__2PRFIN20061221_083430_000000492054_00035_25139_0683.N1	21-DEC-2006 08:34:30	Dark	48.500	54	5The Cen	2.0550	4500.0	97	25139	No
124	GOM_NL__2PRFIN20061221_083624_000000392054_00035_25139_0684.N1	21-DEC-2006 08:36:24	Dark	39.000	78	Alp Lup	2.3040	28000.	78	25139	No
125	GOM_NL__2PRFIN20061221_084020_000000452054_00035_25139_0685.N1	21-DEC-2006 08:40:20	Dark	44.500	10	Bet Cen	0.61000	28000.	89	25139	No
126	GOM_NL__2PRFIN20061221_084309_000000412054_00036_25140_0662.N1	21-DEC-2006 08:43:09	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	25140	No
127	GOM_NL__2PRFIN20061221_084808_000000392054_00036_25140_0663.N1	21-DEC-2006 08:48:08	Dark	38.500	159	Ups Car	2.9200	7200.0	77	25140	No
128	GOM_NL__2PRFIN20061221_084936_000000422054_00036_25140_0664.N1	21-DEC-2006 08:49:36	Dark	42.000	71	Iot Car	2.2460	7700.0	84	25140	No
129	GOM_NL__2PRFIN20061221_085126_000000552054_00036_25140_0665.N1	21-DEC-2006 08:51:26	Dark	54.500	41	Eps Car	1.8600	4100.0	109	25140	No
130	GOM_NL__2PRFIN20061221_085606_000000452054_00036_25140_0666.N1	21-DEC-2006 08:56:06	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	25140	No
131	GOM_NL__2PRFIN20061221_090201_000000402054_00036_25140_0667.N1	21-DEC-2006 09:02:01	Straylight	39.500	108	Alp Col	2.6520	15200.	79	25140	No
132	GOM_NL__2PRFIN20061221_090650_000000402054_00036_25140_0668.N1	21-DEC-2006 09:06:50	Straylight	39.500	101	11Alp Lep	2.5820	7000.0	79	25140	No
133	GOM_NL__2PRFIN20061221_090949_000000512054_00036_25140_0669.N1	21-DEC-2006 09:09:49	Straylight	50.500	7	19Bet Ori	0.10000	14000.	101	25140	No
134	GOM_NL__2PRFIN20061221_091703_000000432054_00036_25140_0670.N1	21-DEC-2006 09:17:03	Twi_and_stray	43.000	13	87Alp Tau	0.86700	3800.0	86	25140	No
135	GOM_NL__2PRFIN20061221_091925_000000332054_00036_25140_0671.N1	21-DEC-2006 09:19:25	Bright	32.500	146	25Eta Tau	2.8730	15200.	65	25140	No
136	GOM_NL__2PRFIN20061221_092131_000000332054_00036_25140_0672.N1	21-DEC-2006 09:21:31	Bright	33.000	150	44Zet Per	2.8900	28000.	66	25140	No
137	GOM_NL__2PRFIN20061221_092345_000000352054_00036_25140_0673.N1	21-DEC-2006 09:23:45	Bright	34.500	149	45Eps Per	2.8880	30000.	69	25140	No
138	GOM_NL__2PRFIN20061221_092559_000000352054_00036_25140_0674.N1	21-DEC-2006 09:25:59	Bright	34.500	175	39Del Per	3.0100	19400.	69	25140	No
139	GOM_NL__2PRFIN20061221_092753_000000352054_00036_25140_0675.N1	21-DEC-2006 09:27:53	Bright	35.000	160	23Gam Per	2.9300	4700.0	70	25140	No
140	GOM_NL__2PRFIN20061221_093737_000000362054_00036_25140_0676.N1	21-DEC-2006 09:37:37	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	25140	No
141	GOM_NL__2PRFIN20061221_094217_000000372054_00036_25140_0677.N1	21-DEC-2006 09:42:17	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	25140	No
142	GOM_NL__2PRFIN20061221_094544_000000362054_00036_25140_0678.N1	21-DEC-2006 09:45:44	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	25140	No
143	GOM_NL__2PRFIN20061221_095619_000000372054_00036_25140_0679.N1	21-DEC-2006 09:56:19	Bright	37.000	83		2.3780	11000.	74	25140	No
144	GOM_NL__2PRFIN20061221_100126_000000342054_00036_25140_0680.N1	21-DEC-2006 10:01:26	Bright	33.500	102	24Alp Ser	2.6000	4250.0	67	25140	No
145	GOM_NL__2PRFIN20061221_100612_000000352054_00036_25140_0681.N1	21-DEC-2006 10:06:12	Bright	35.000	104	27Bet Lib	2.6140	13100.	70	25140	No
146	GOM_NL__2PRFIN20061221_100833_000000542054_00036_25140_0682.N1	21-DEC-2006 10:08:33	Bright	54.000	122	9Alp2Lib	2.7470	9700.0	108	25140	No
147	GOM_NL__2PRFIN20061221_101506_000000422054_00036_25140_0683.N1	21-DEC-2006 10:15:06	Dark	42.000	54	5The Cen	2.0550	4500.0	84	25140	No
148	GOM_NL__2PRFIN20061221_101700_000000372054_00036_25140_0684.N1	21-DEC-2006 10:17:00	Dark	37.000	78	Alp Lup	2.3040	28000.	74	25140	No
149	GOM_NL__2PRFIN20061221_102056_000000452054_00036_25140_0685.N1	21-DEC-2006 10:20:56	Dark	44.500	10	Bet Cen	0.61000	28000.	89	25140	No
150	GOM_NL__2PRFIN20061221_102345_000000392054_00037_25141_0662.N1	21-DEC-2006 10:23:45	Dark	38.500	12	Alp1Cru	0.77500	30000.	77	25141	No
151	GOM_NL__2PRFIN20061221_102844_000000392054_00037_25141_0663.N1	21-DEC-2006 10:28:44	Dark	39.000	159	Ups Car	2.9200	7200.0	78	25141	No
152	GOM_NL__2PRFIN20061221_103013_000000422054_00037_25141_0664.N1	21-DEC-2006 10:30:13	Dark	42.000	71	Iot Car	2.2460	7700.0	84	25141	No
153	GOM_NL__2PRFIN20061221_103202_000000492054_00037_25141_0665.N1	21-DEC-2006 10:32:02	Dark	48.500	41	Eps Car	1.8600	4100.0	97	25141	No
154	GOM_NL__2PRFIN20061221_103643_000000512054_00037_25141_0666.N1	21-DEC-2006 10:36:43	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	25141	No
155	GOM_NL__2PRFIN20061221_104237_000000402054_00037_25141_0667.N1	21-DEC-2006 10:42:37	Straylight	40.000	108	Alp Col	2.6520	15200.	80	25141	No
156	GOM_NL__2PRFIN20061221_104726_000000412054_00037_25141_0668.N1	21-DEC-2006 10:47:26	Straylight	40.500	101	11Alp Lep	2.5820	7000.0	81	25141	No
157	GOM_NL__2PRFIN20061221_105025_000000452054_00037_25141_0669.N1	21-DEC-2006 10:50:25	Straylight	45.000	7	19Bet Ori	0.10000	14000.	90	25141	No
158	GOM_NL__2PRFIN20061221_105739_000000472054_00037_25141_0670.N1	21-DEC-2006 10:57:39	Twi_and_stray	46.500	13	87Alp Tau	0.86700	3800.0	93	25141	No
159	GOM_NL__2PRFIN20061221_110001_000000342054_00037_25141_0671.N1	21-DEC-2006 11:00:01	Bright	33.500	146	25Eta Tau	2.8730	15200.	67	25141	No
160	GOM_NL__2PRFIN20061221_110207_000000352054_00037_25141_0672.N1	21-DEC-2006 11:02:07	Bright	35.000	150	44Zet Per	2.8900	28000.	70	25141	No







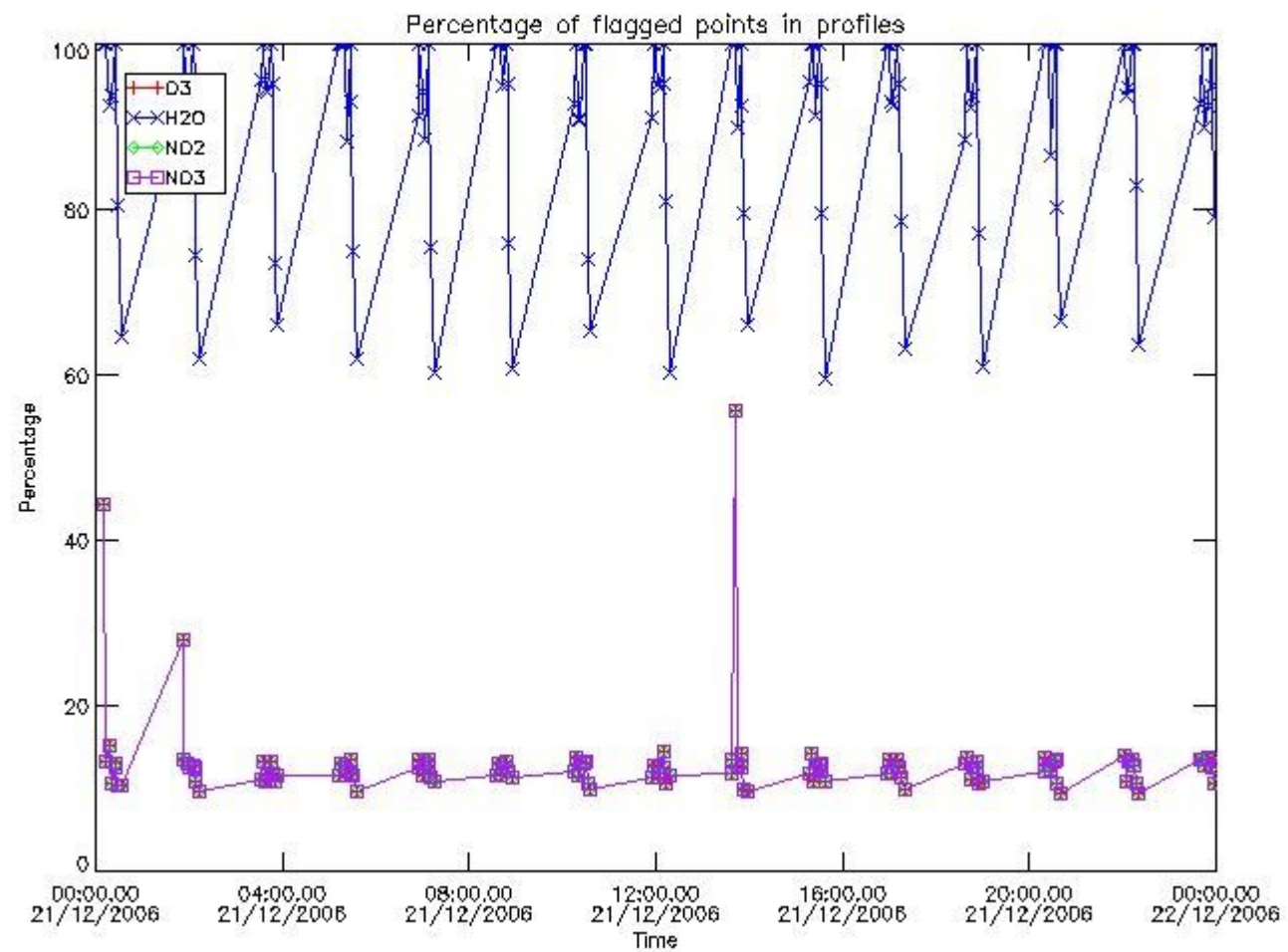


338	GOM_NL__2PRFIN20061221_233958_000000422054_00044_25148_0703.N1	21-DEC-2006 23:39:58	Dark	41.500	54	5The Cen	2.0550	4500.0	83	25148	No
339	GOM_NL__2PRFIN20061221_234150_000000382054_00044_25148_0704.N1	21-DEC-2006 23:41:50	Dark	38.000	78	Alp Lup	2.3040	28000.	76	25148	No
340	GOM_NL__2PRFIN20061221_234546_000000402054_00044_25148_0705.N1	21-DEC-2006 23:45:46	Dark	40.000	10	Bet Cen	0.61000	28000.	80	25148	No
341	GOM_NL__2PRFIN20061221_234836_000000412054_00045_25149_0682.N1	21-DEC-2006 23:48:36	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	25149	No
342	GOM_NL__2PRFIN20061221_235335_000000382054_00045_25149_0683.N1	21-DEC-2006 23:53:35	Dark	38.000	159	Ups Car	2.9200	7200.0	76	25149	No
343	GOM_NL__2PRFIN20061221_235505_000000412054_00045_25149_0684.N1	21-DEC-2006 23:55:05	Dark	40.500	71	lot Car	2.2460	7700.0	81	25149	No
344	GOM_NL__2PRFIN20061221_235654_000000532054_00045_25149_0685.N1	21-DEC-2006 23:56:54	Dark	53.000	41	Eps Car	1.8600	4100.0	106	25149	No

### 3. Quality information per product

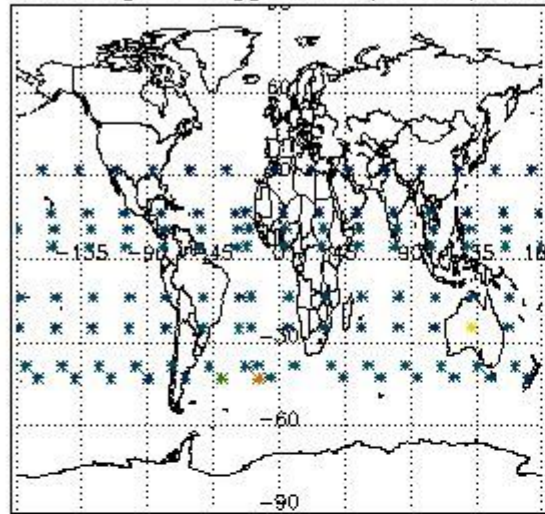
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

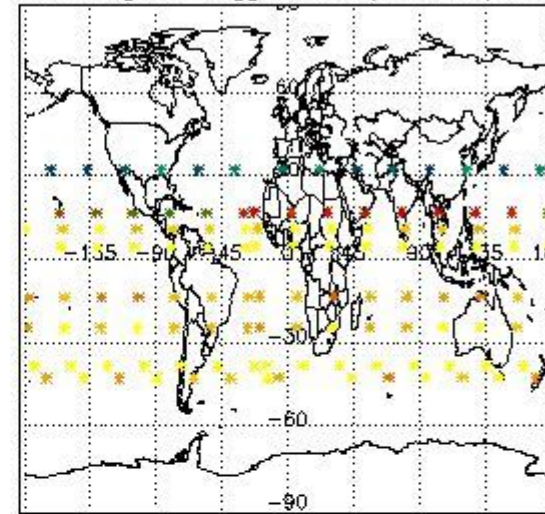


#### 3.2 Plot quality information per product (world map)

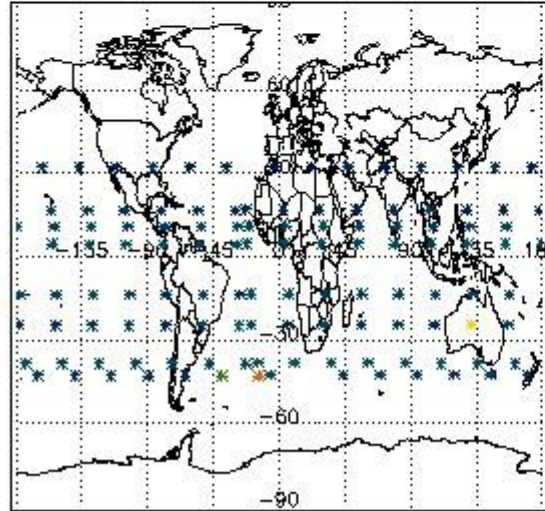
Percentage of flagged data per O3 profile



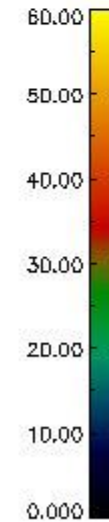
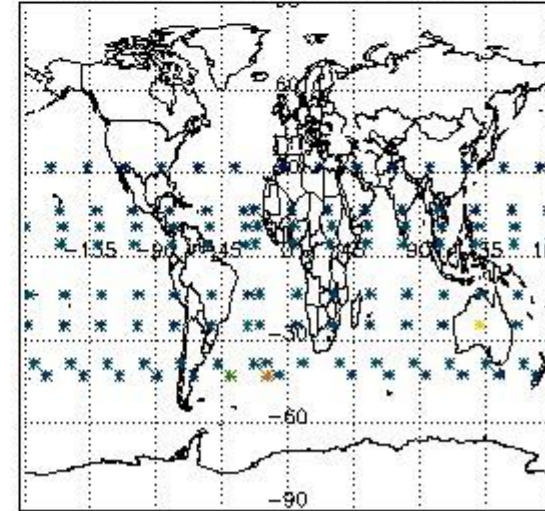
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

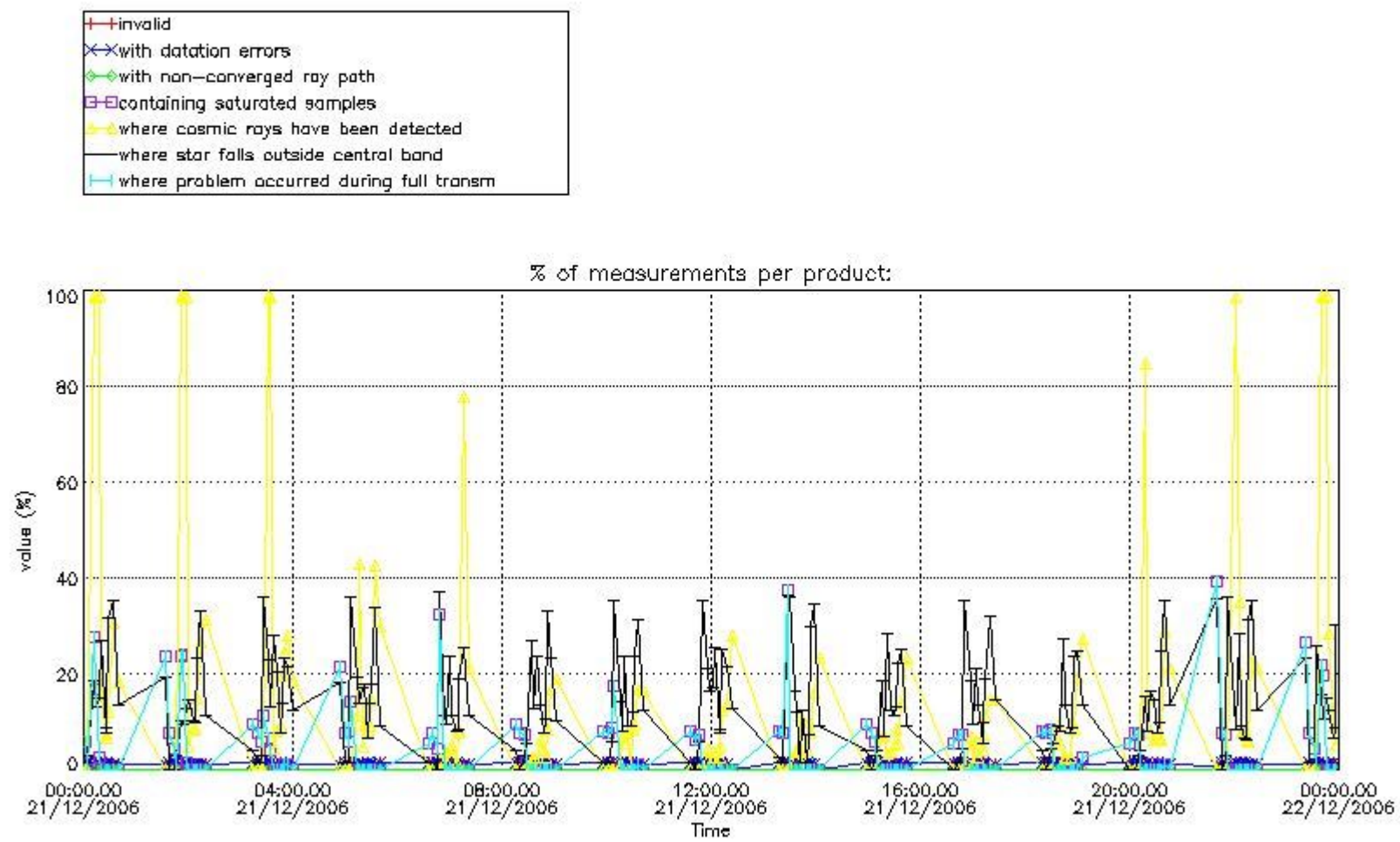


#### 4. Level 1 quality information per product

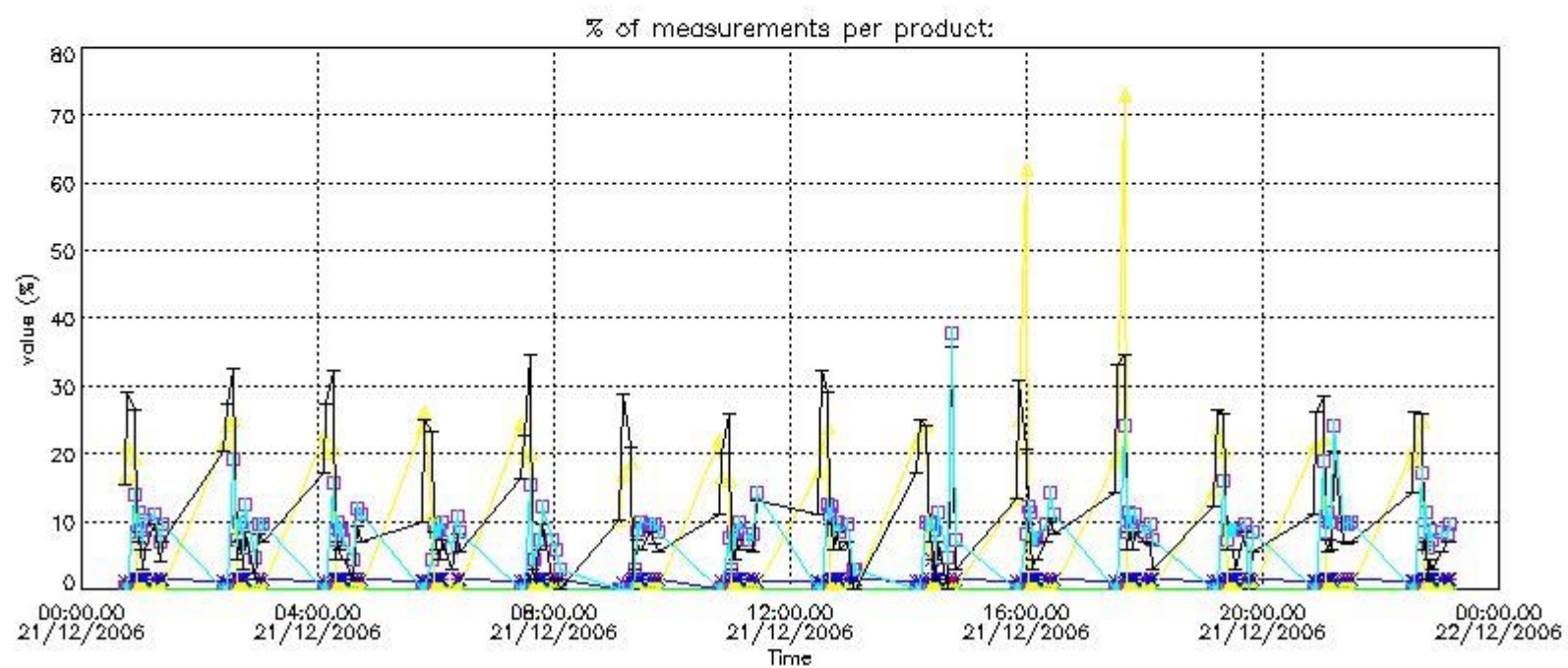
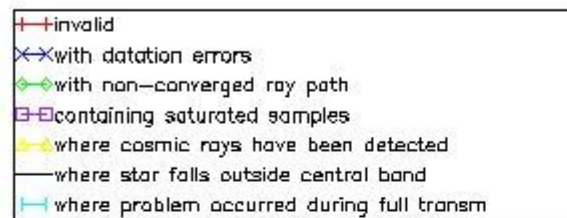
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

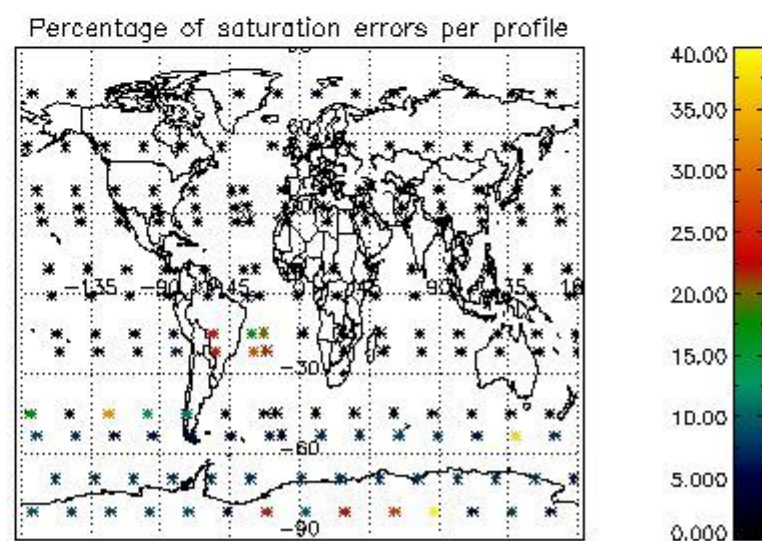
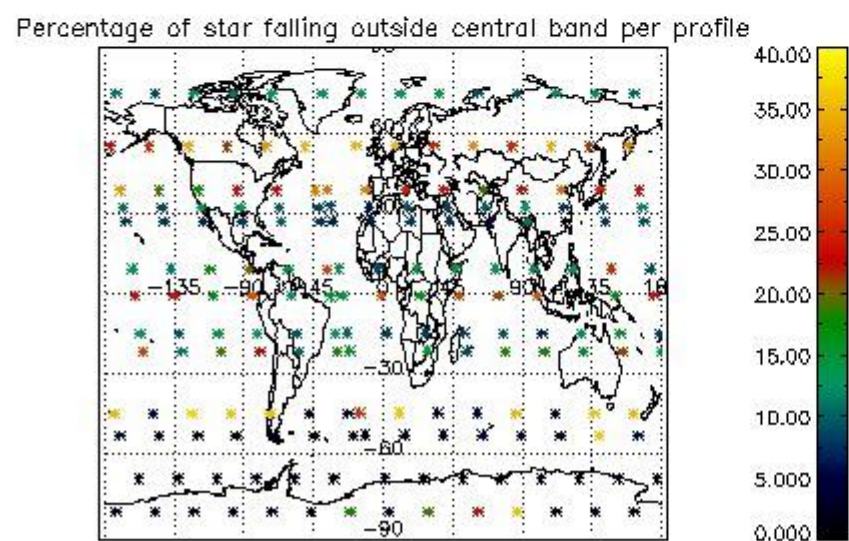
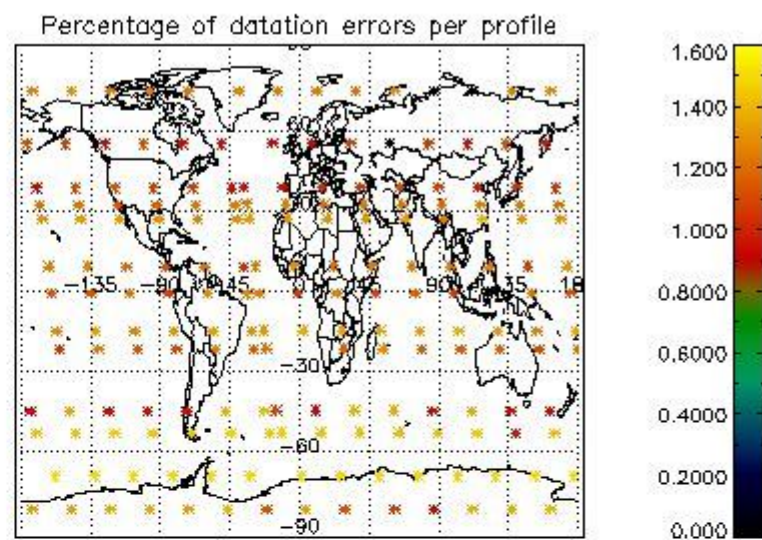
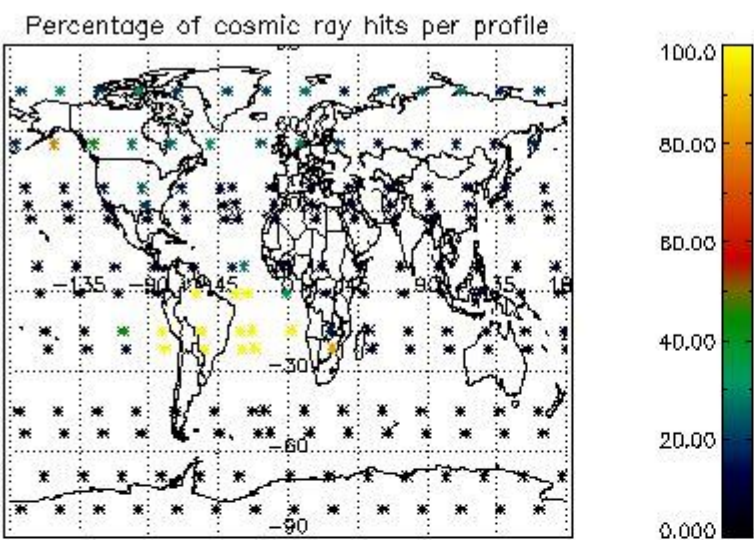


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



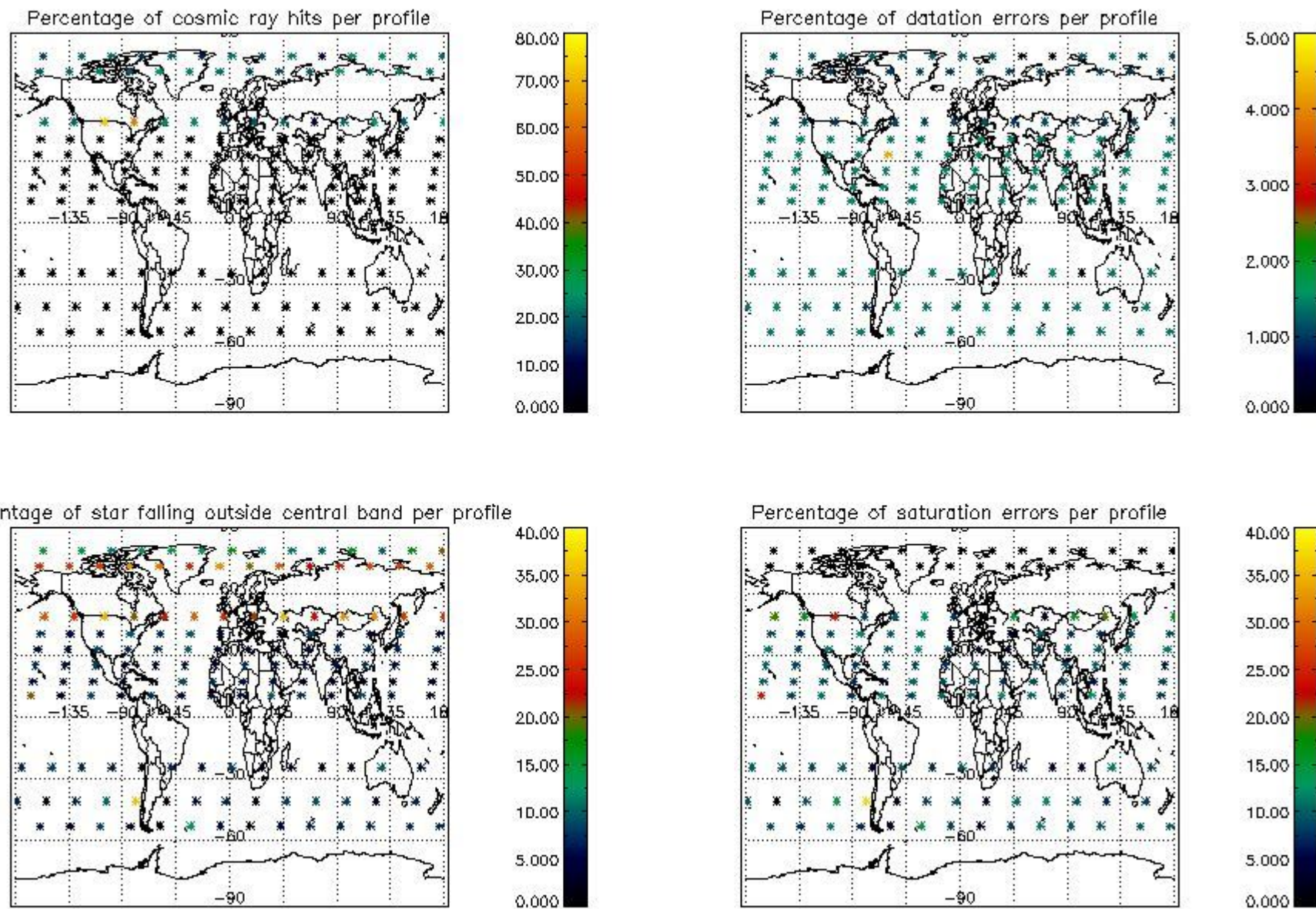
#### 4.2 Plot quality information per product coming from level 1b processing (world map)

##### 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

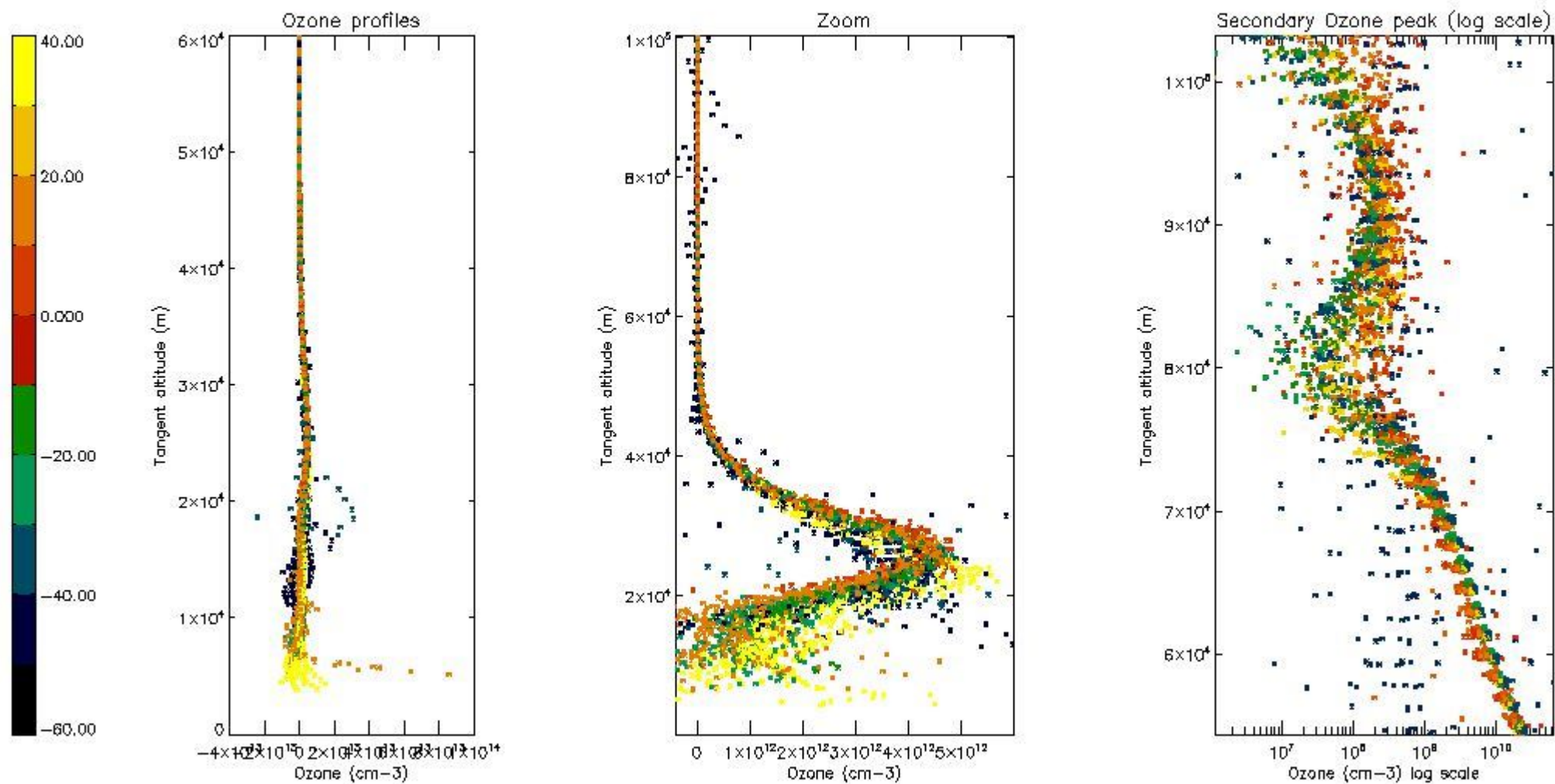
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	38
STD < 20	21

STD < 10	15
STD < 5	9

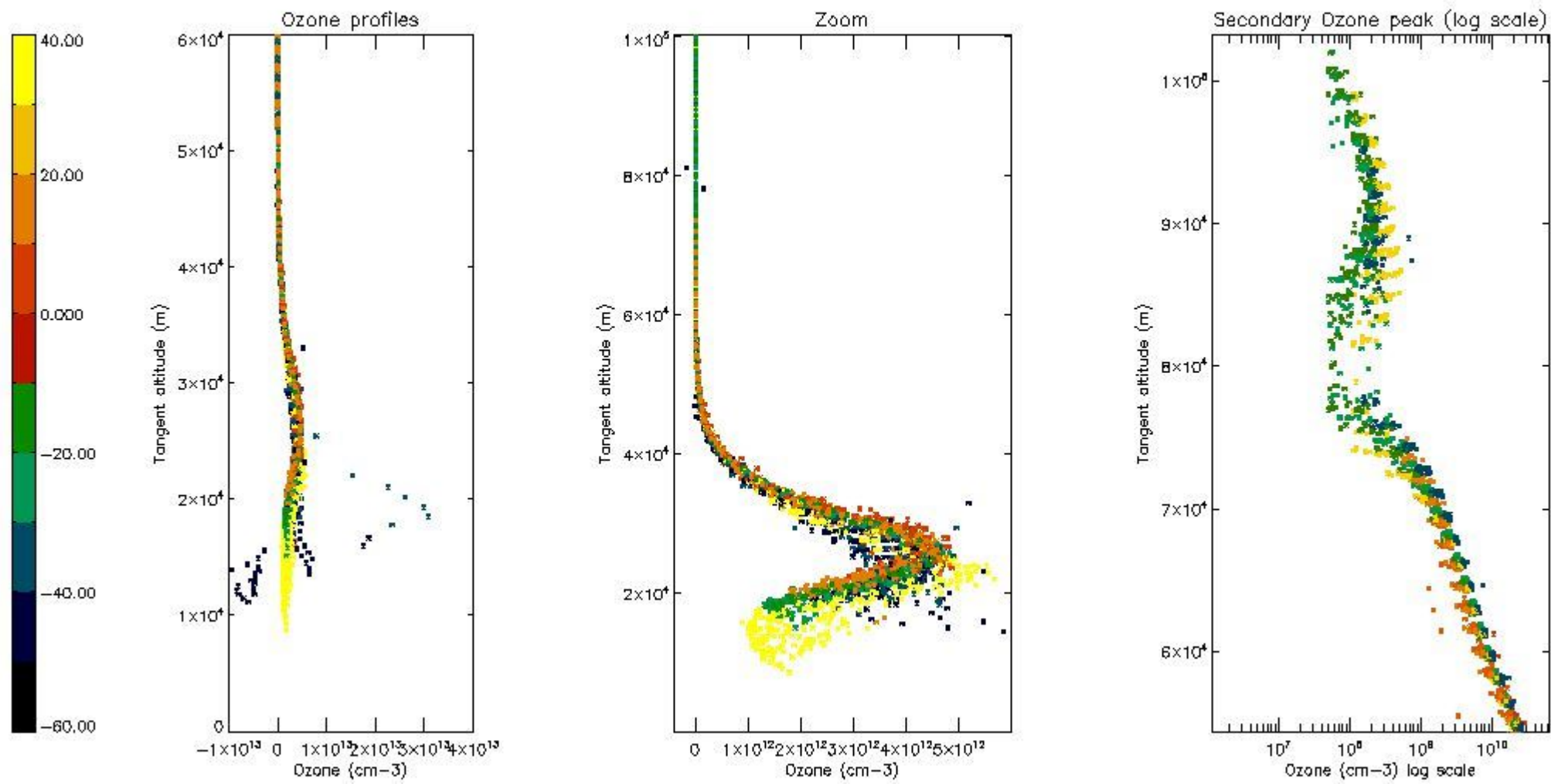
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



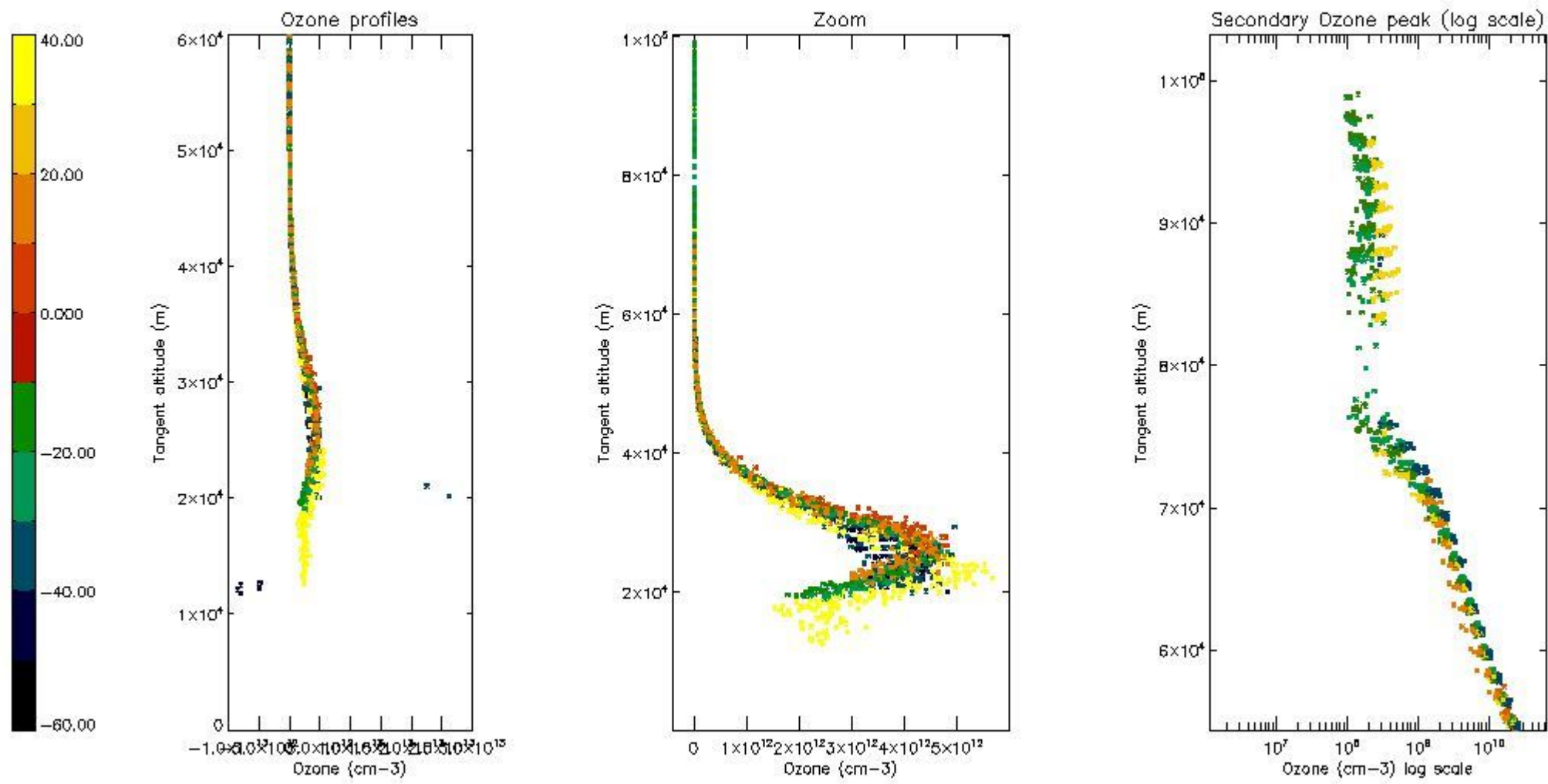
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



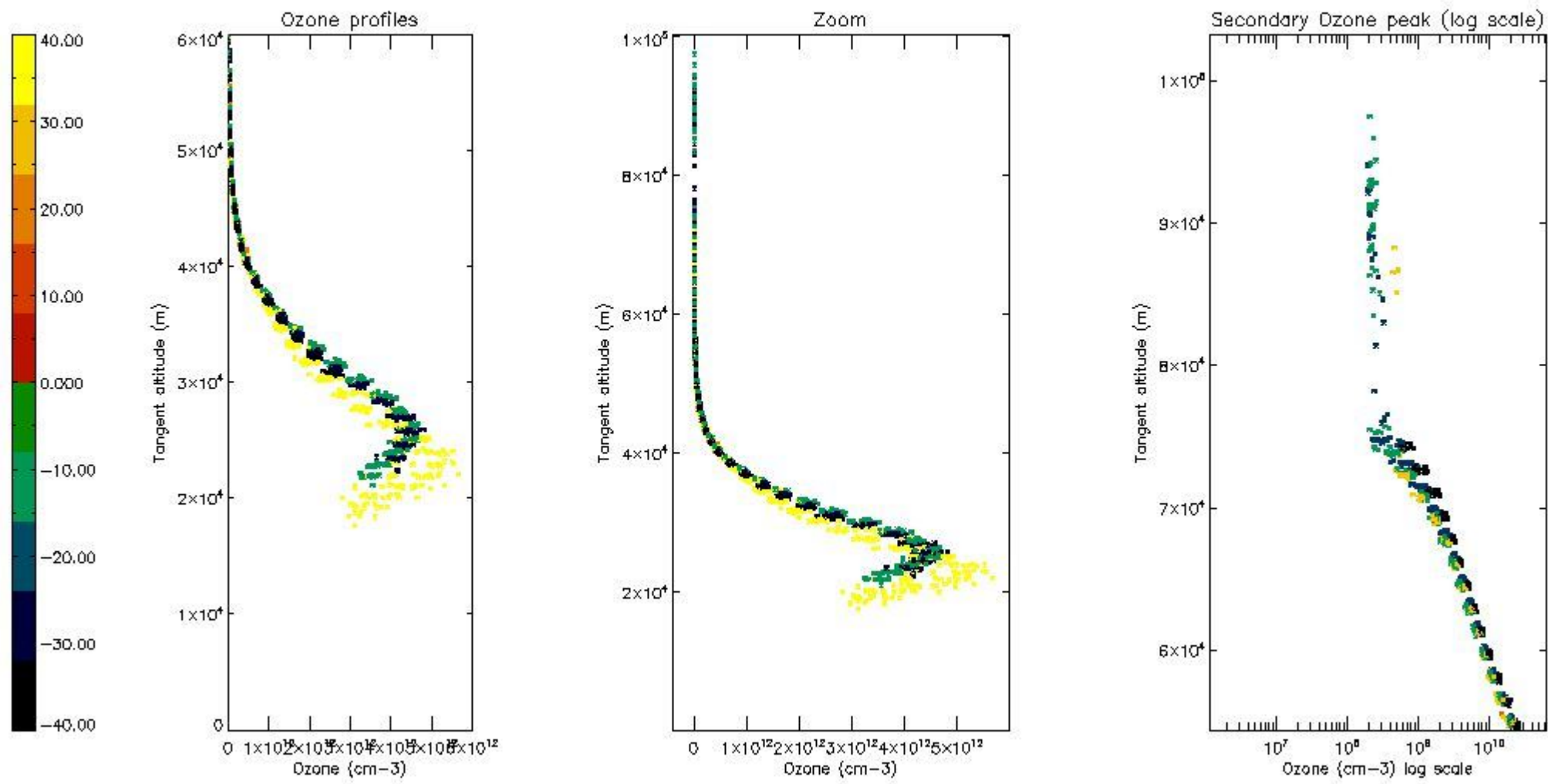
*5.4 Plot ozone profiles where  $STD < 10\%$  (dark without errors)*

The colorbar represents the latitude.



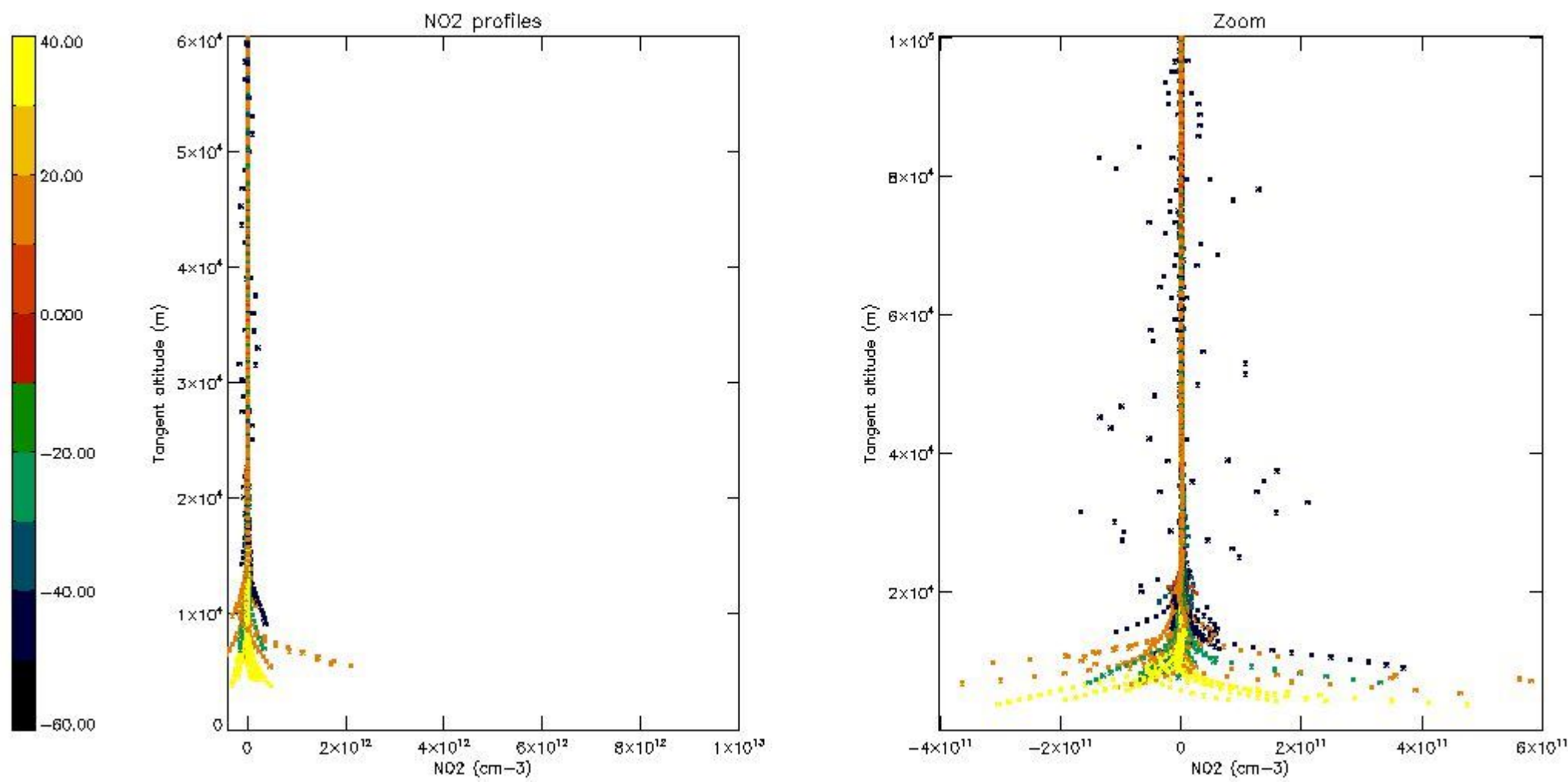
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



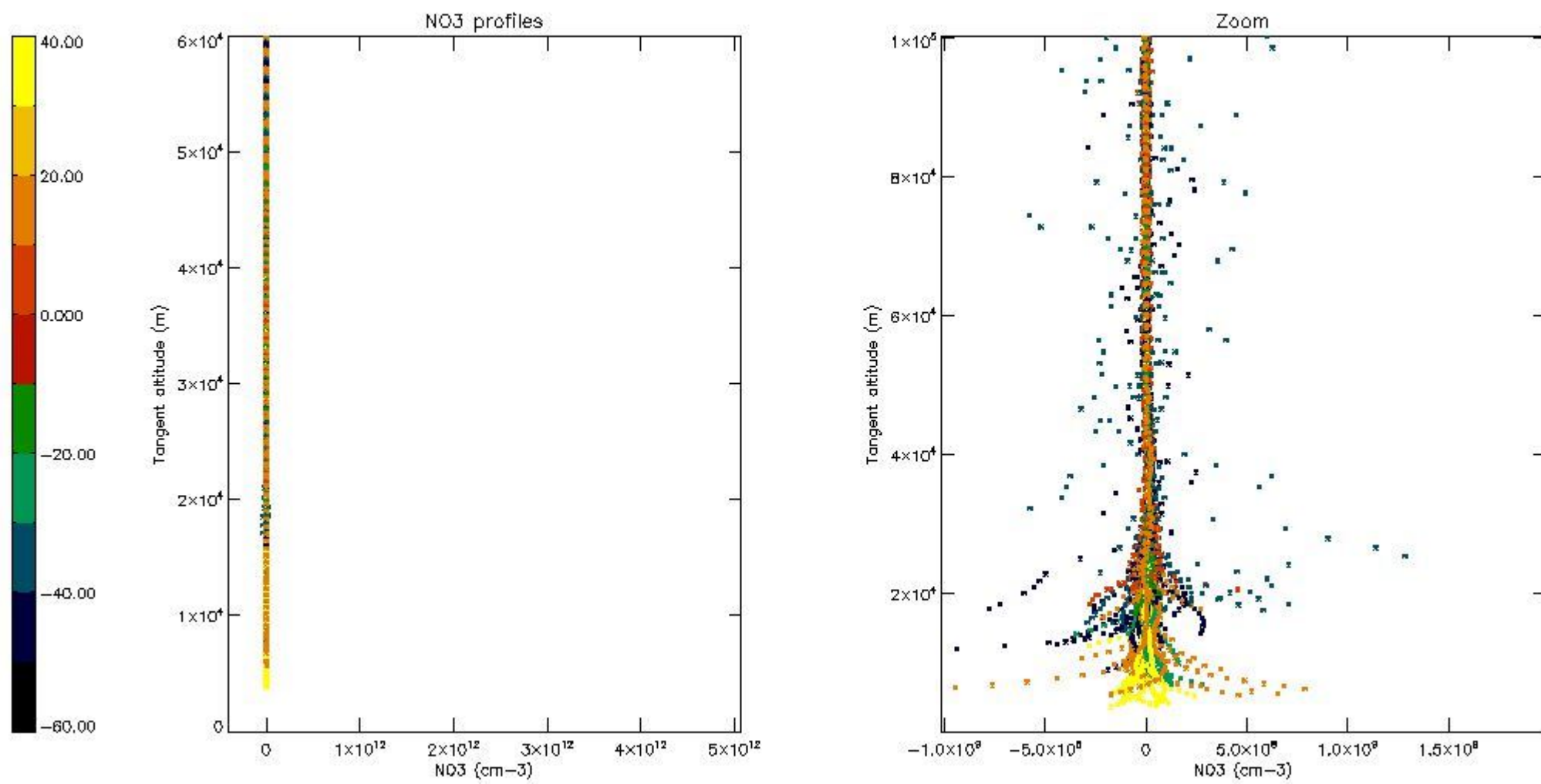
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



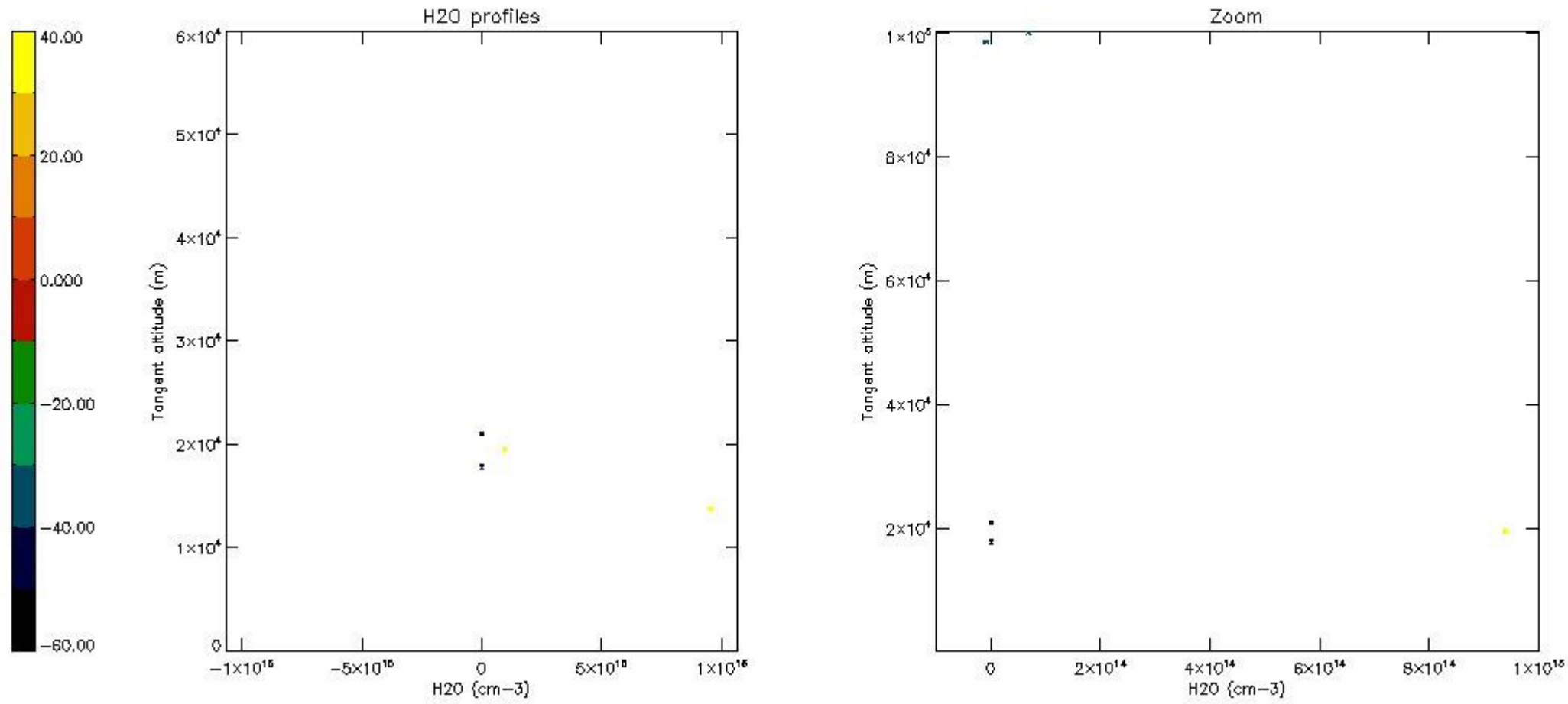
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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.

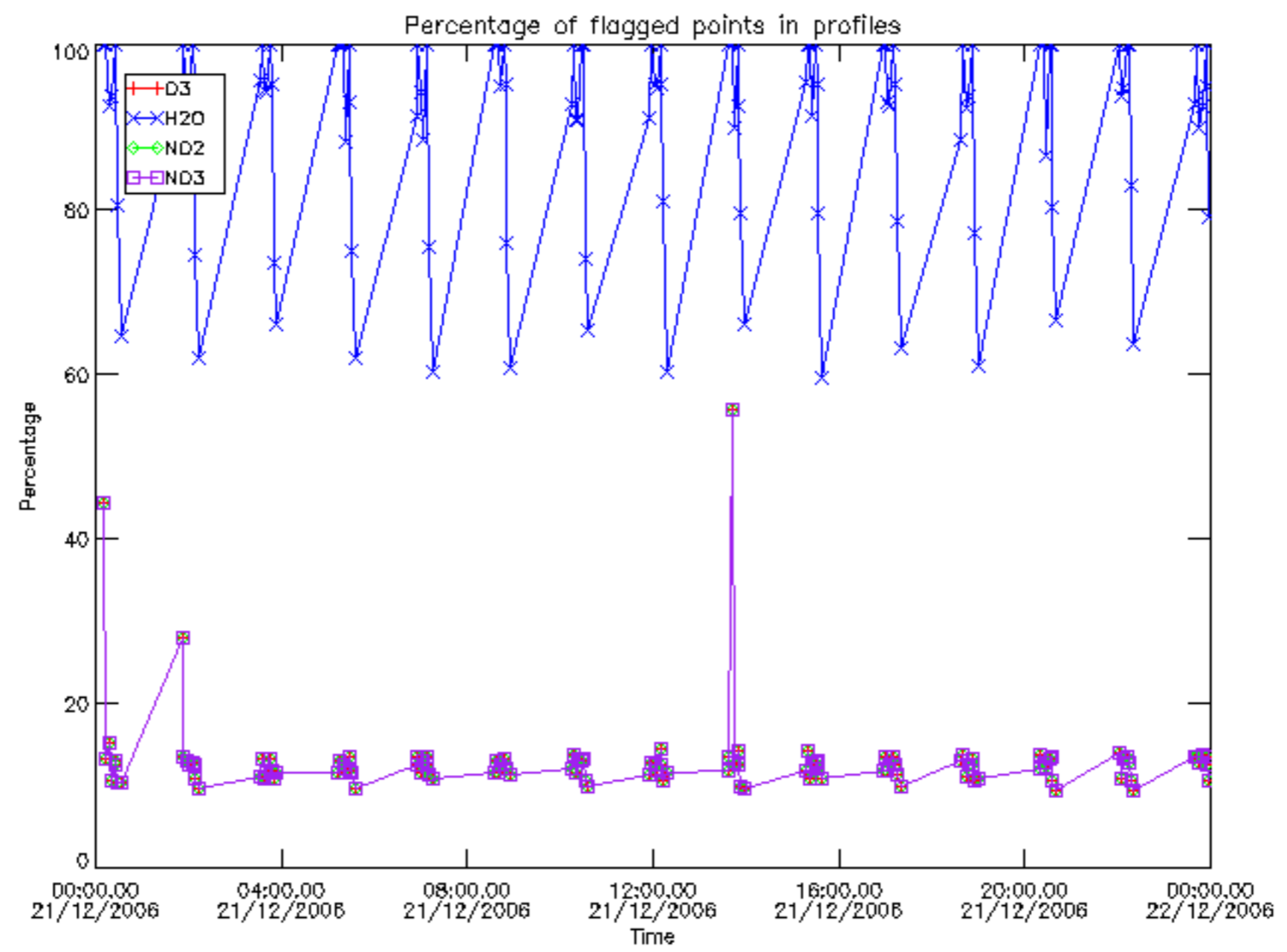


## 6. Auxiliary Data Files used for the production reported in section 2

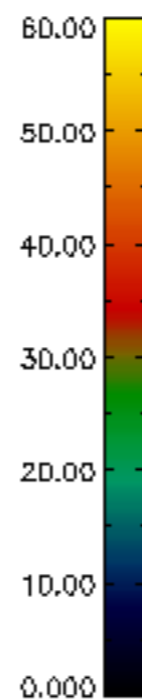
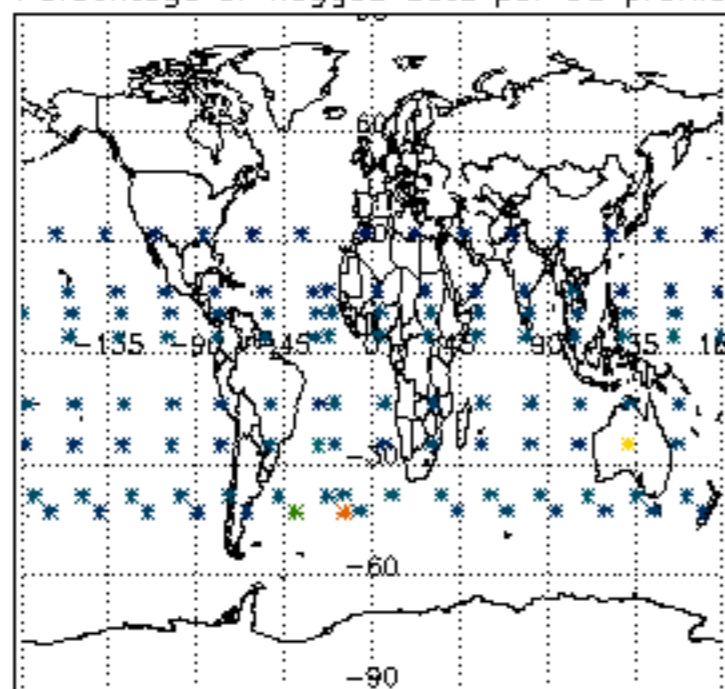
The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	21-DEC-2006 00:02:35
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	21-DEC-2006 00:02:35
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	21-DEC-2006 00:02:35

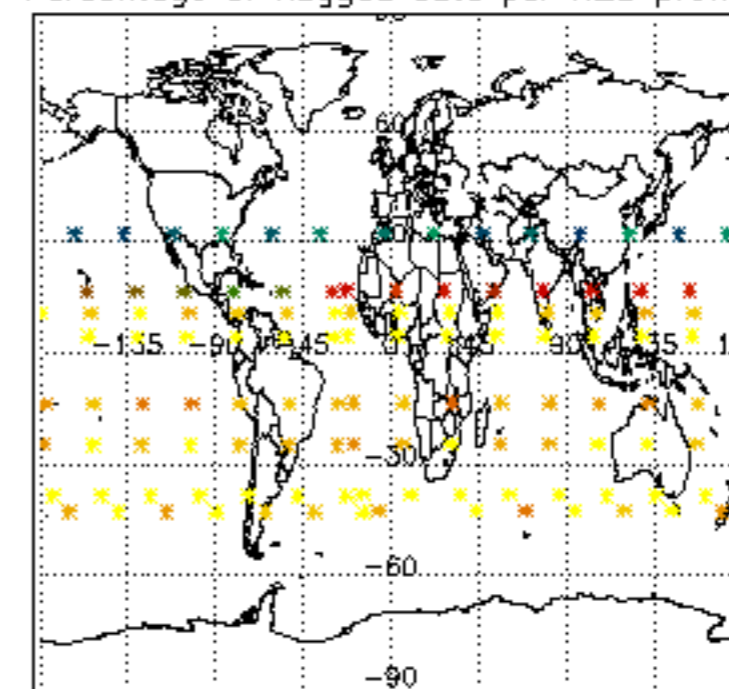




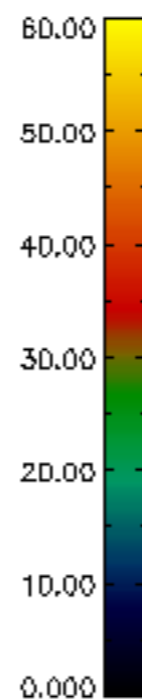
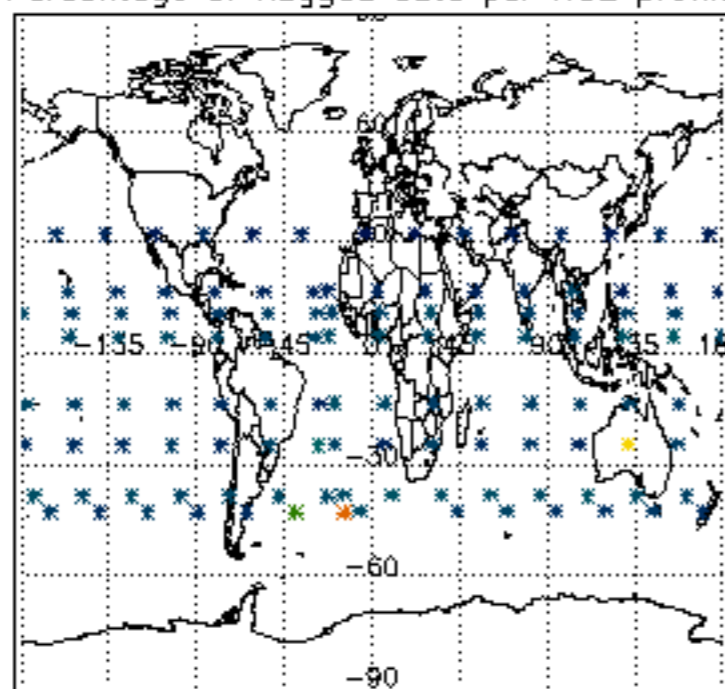
Percentage of flagged data per D3 profile



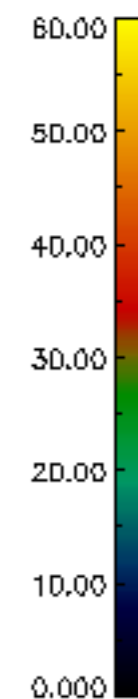
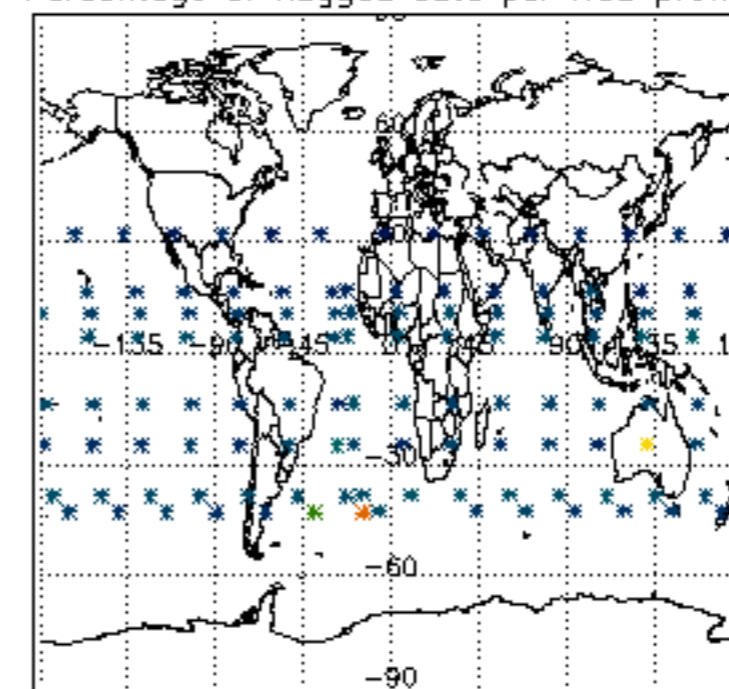
Percentage of flagged data per H2O profile

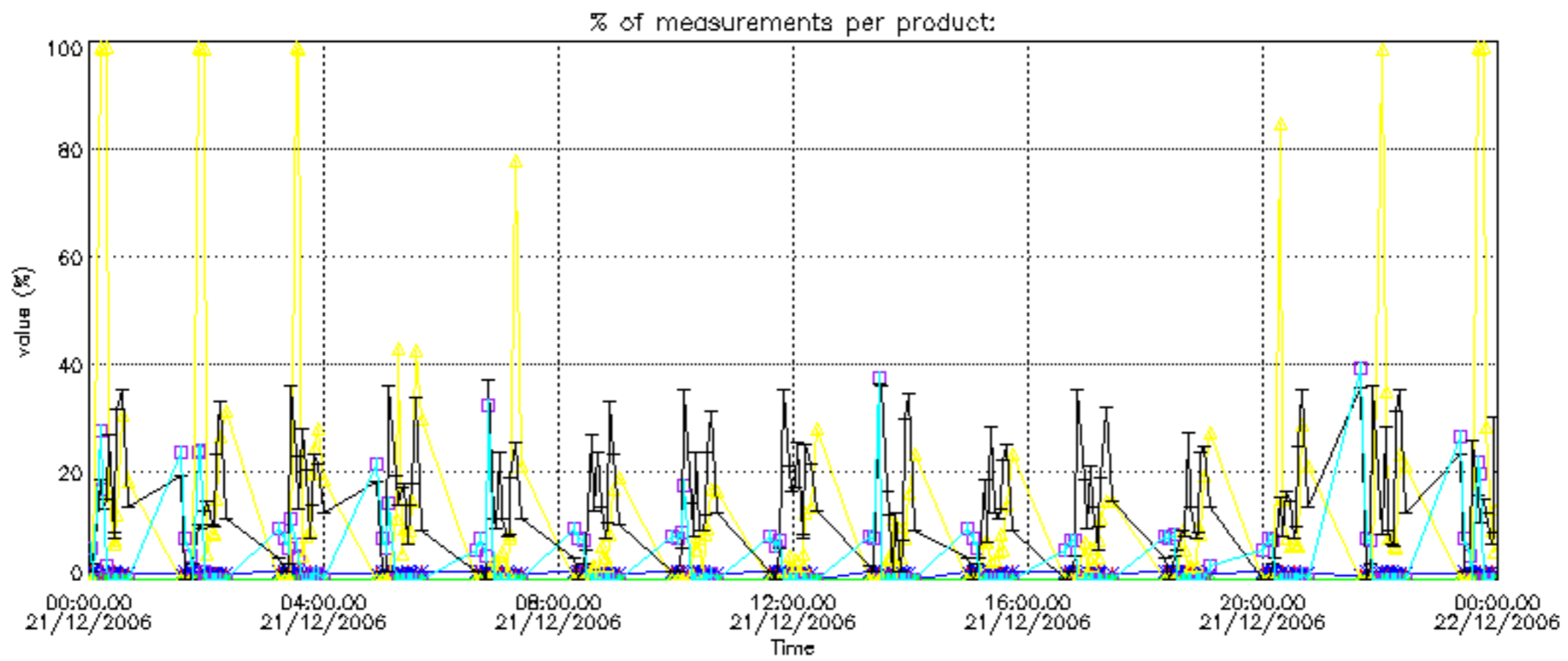


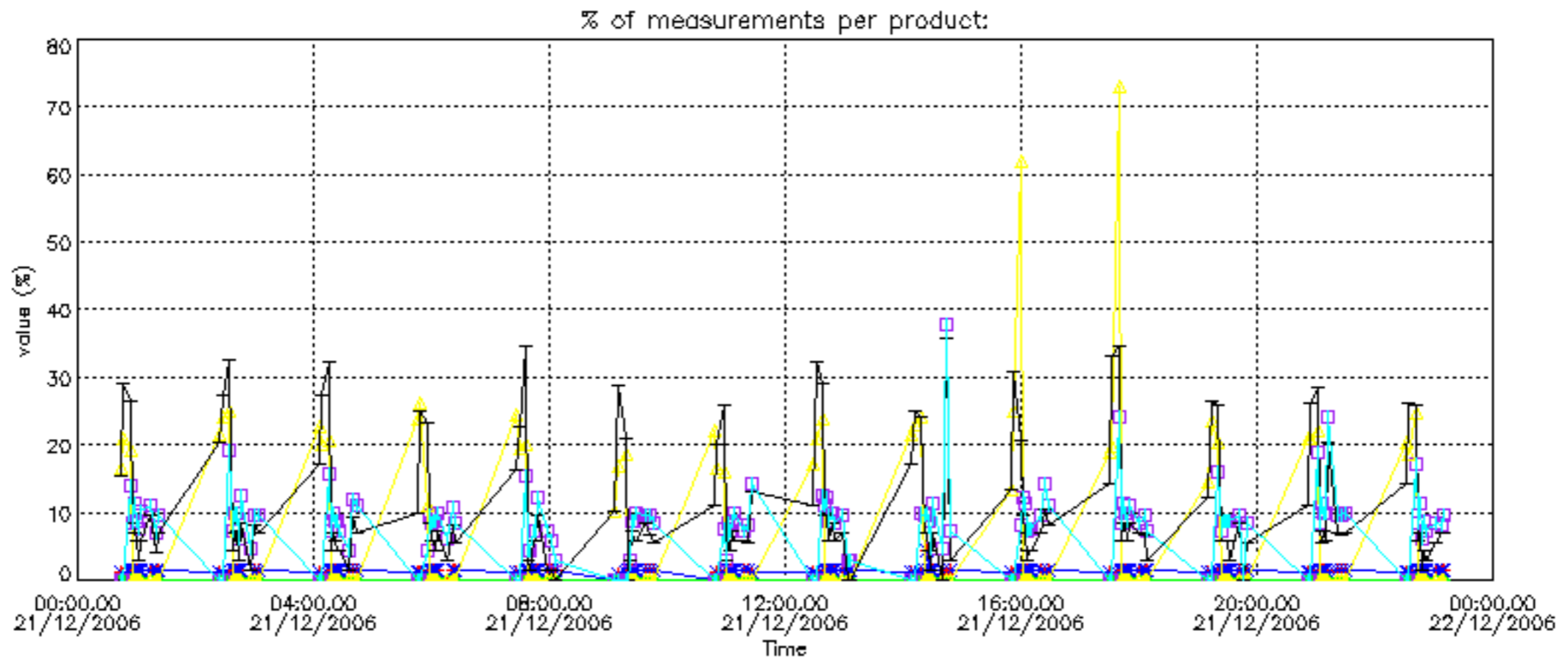
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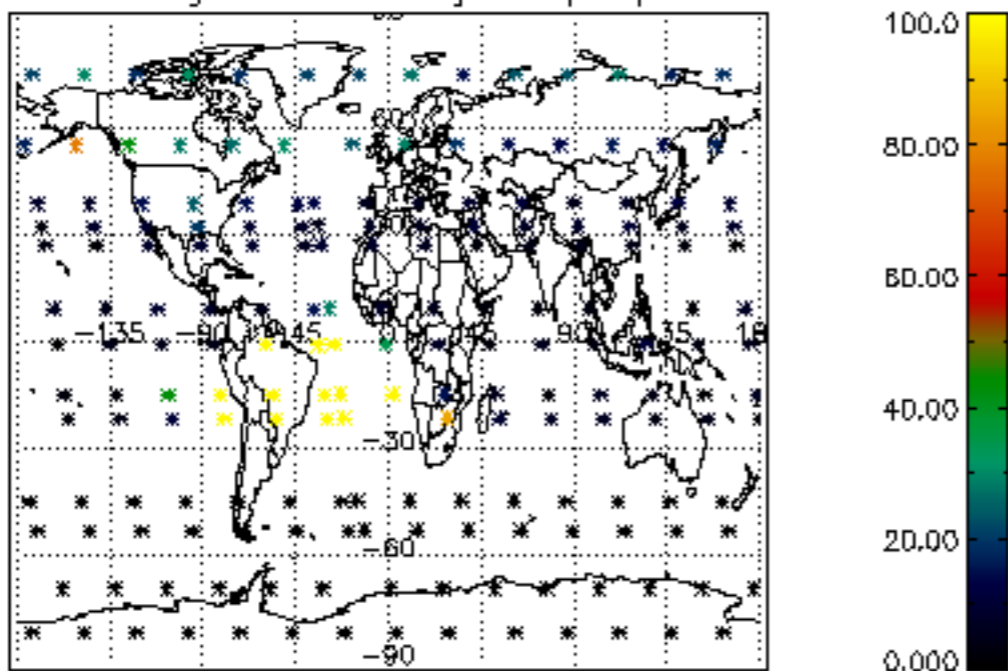
Percentage of flagged data per NO3 profile



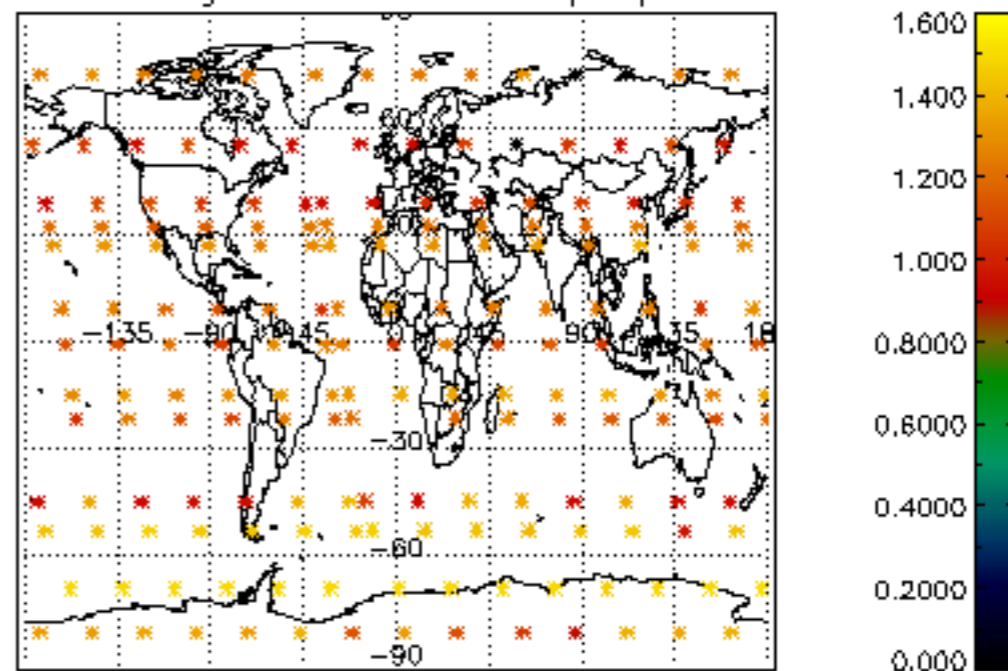




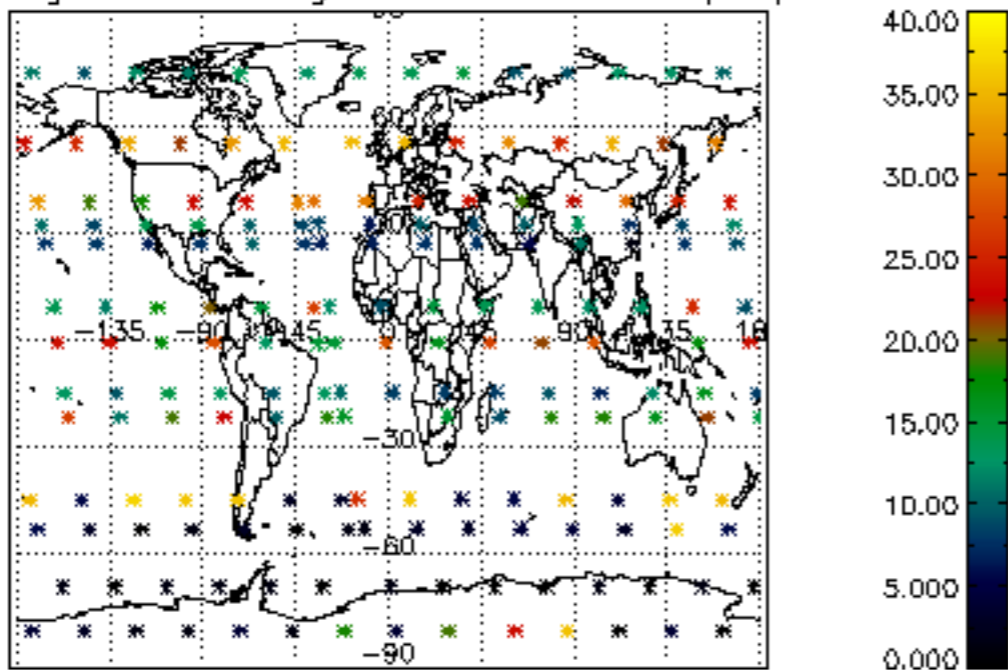
Percentage of cosmic ray hits per profile



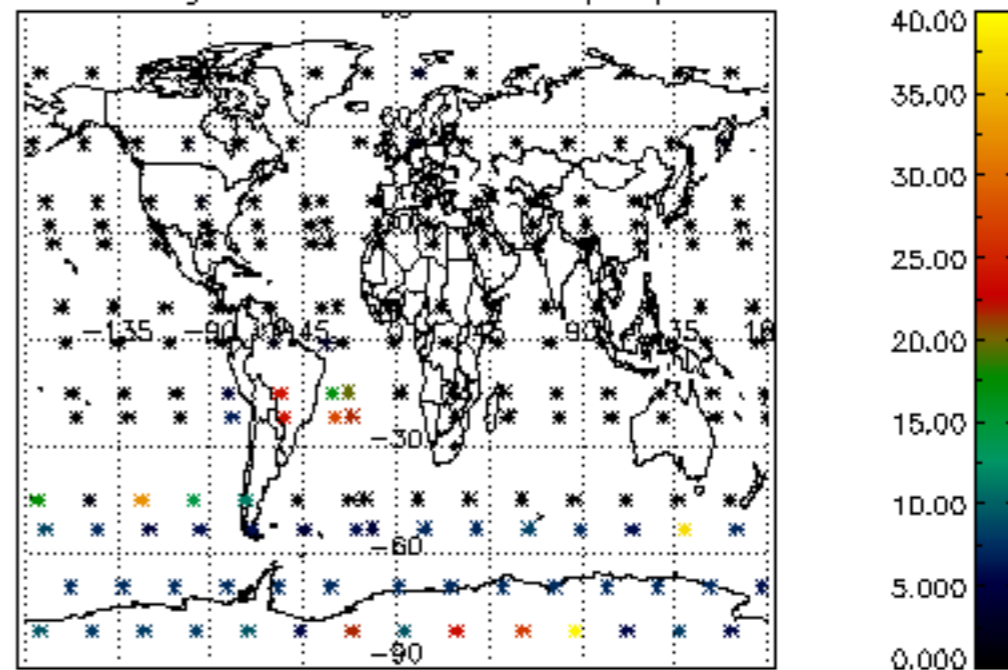
Percentage of datation errors per profile



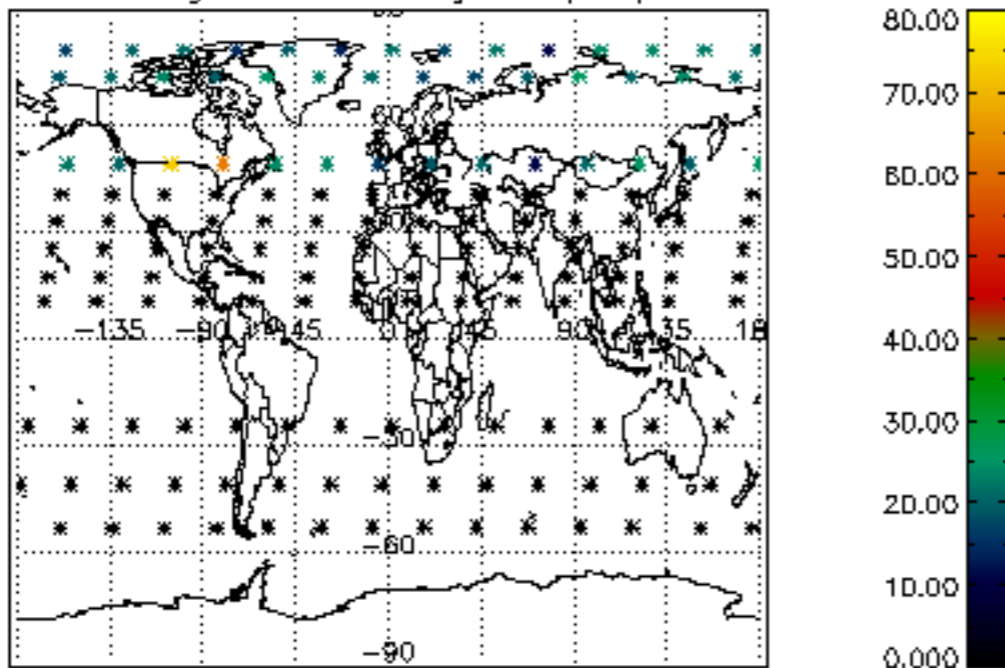
Percentage of star falling outside central band per profile



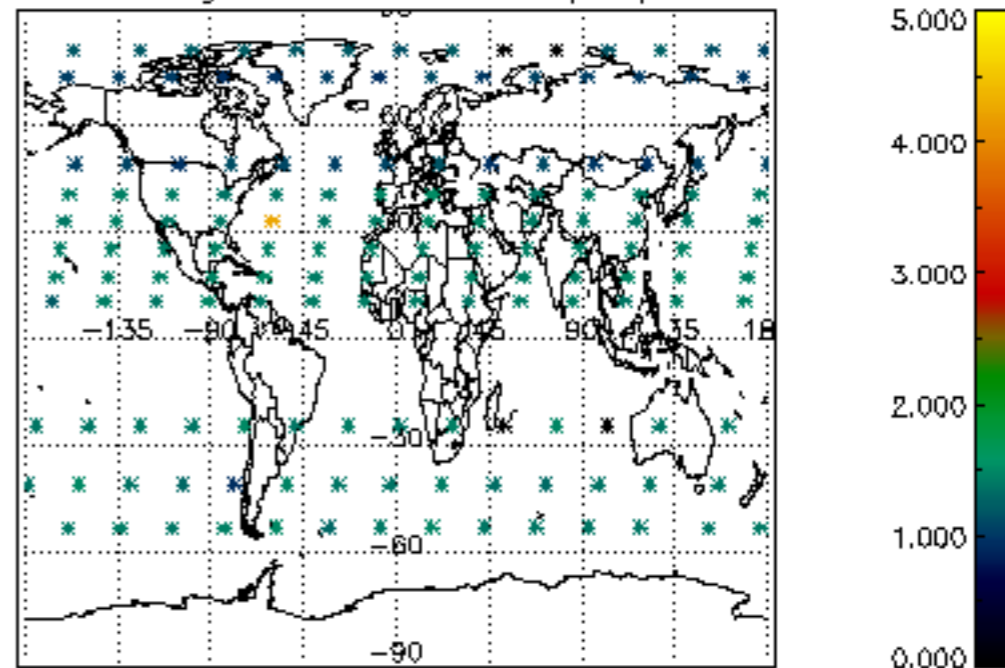
Percentage of saturation errors per profile



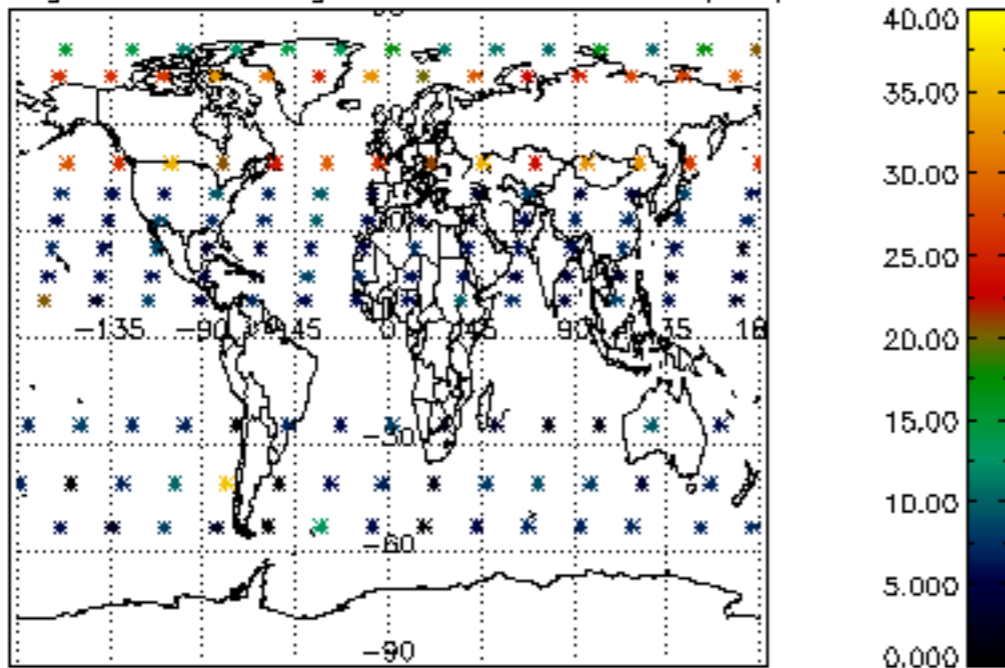
Percentage of cosmic ray hits per profile



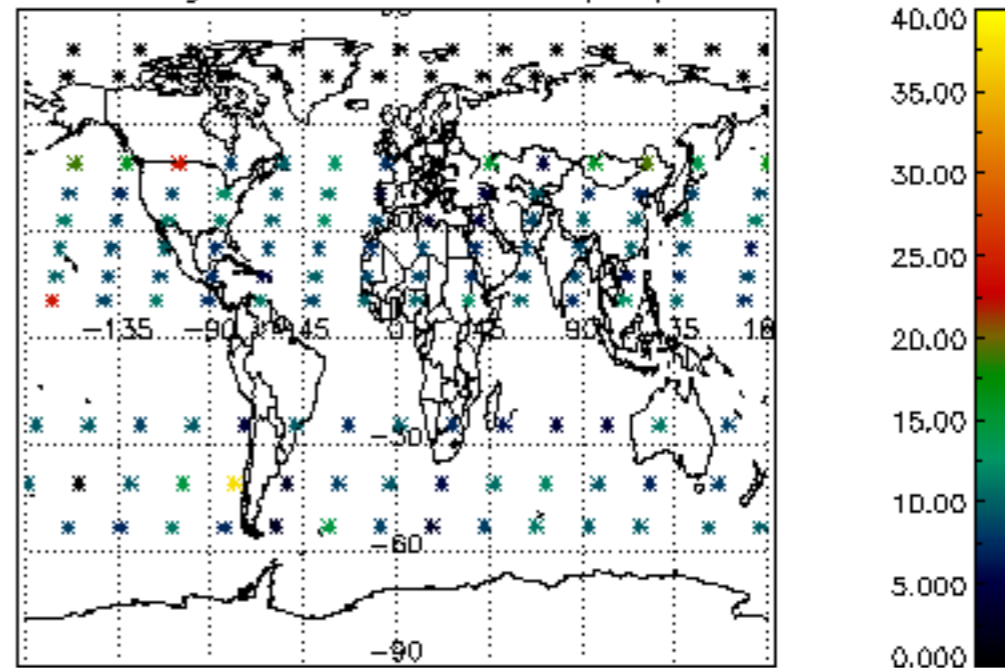
Percentage of datation errors per profile

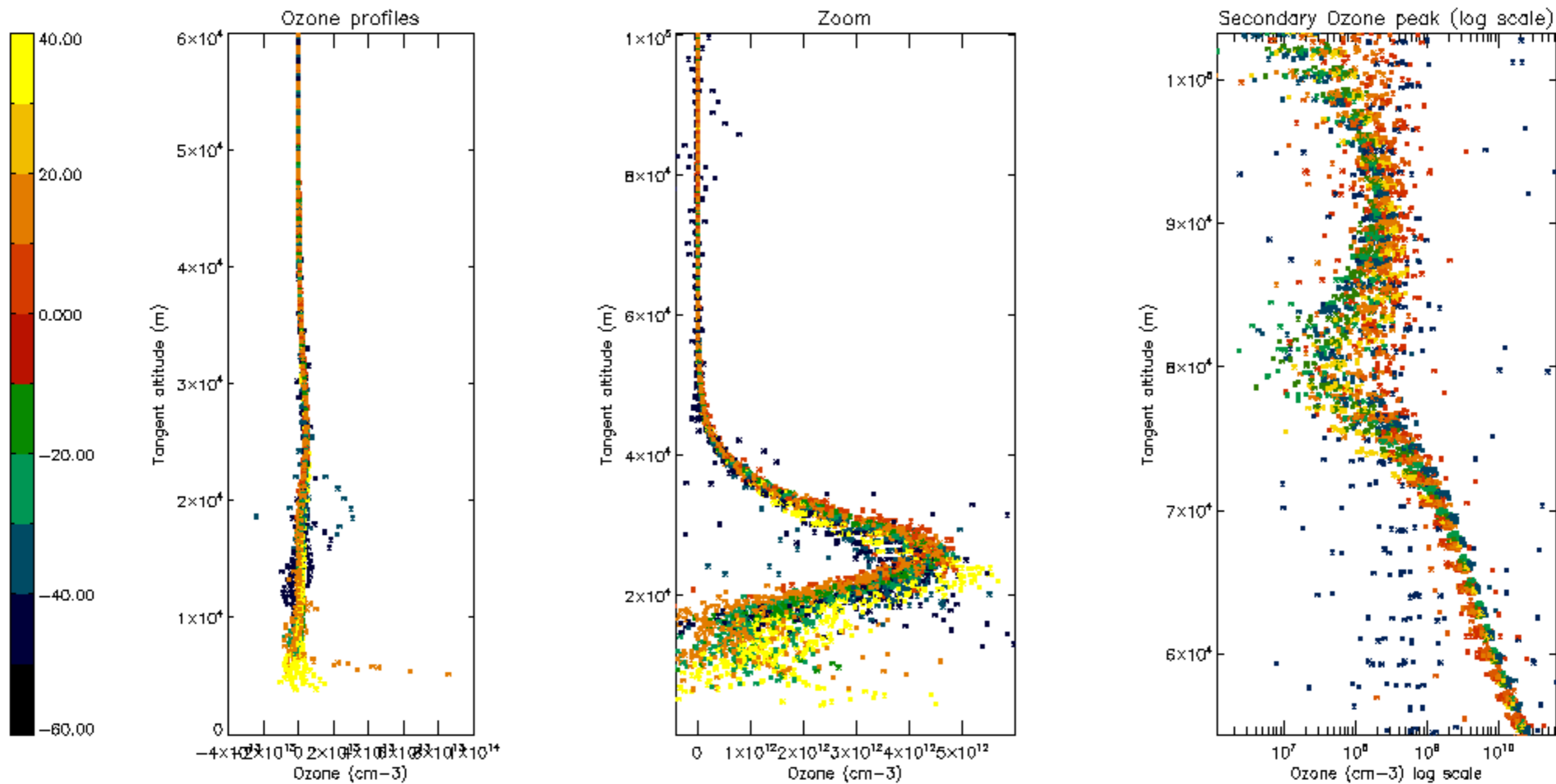


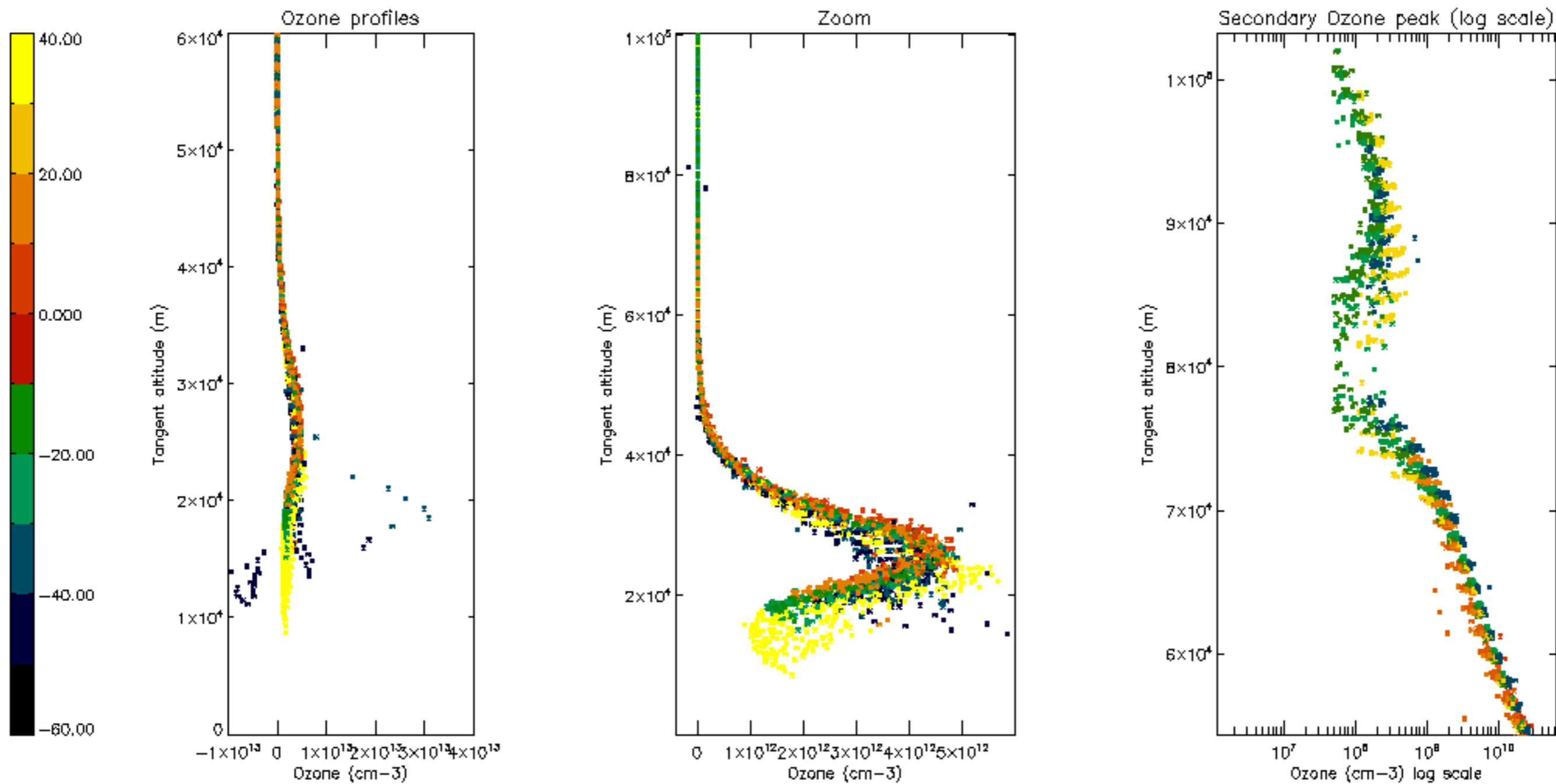
Percentage of star falling outside central band per profile



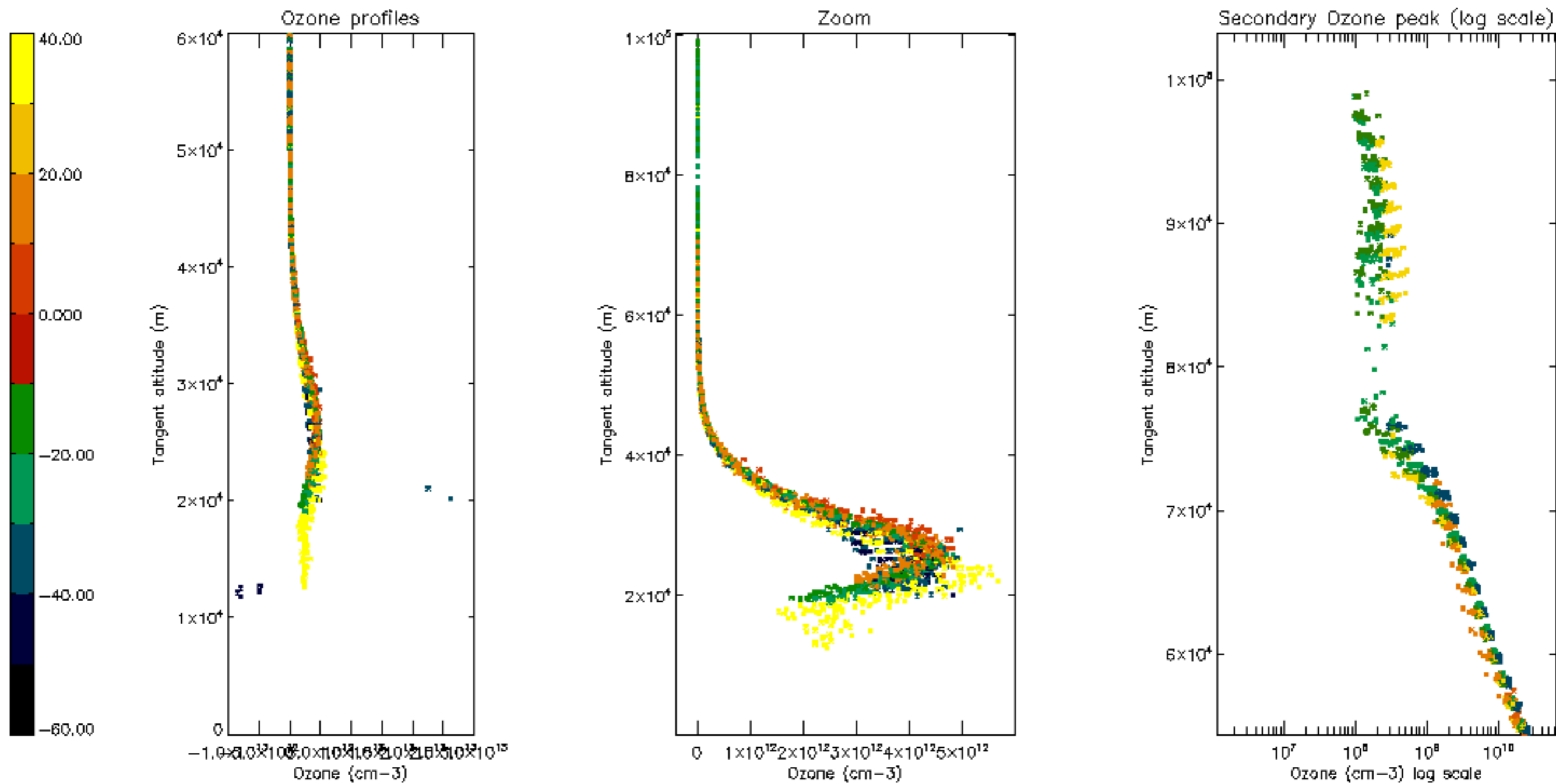
Percentage of saturation errors per profile

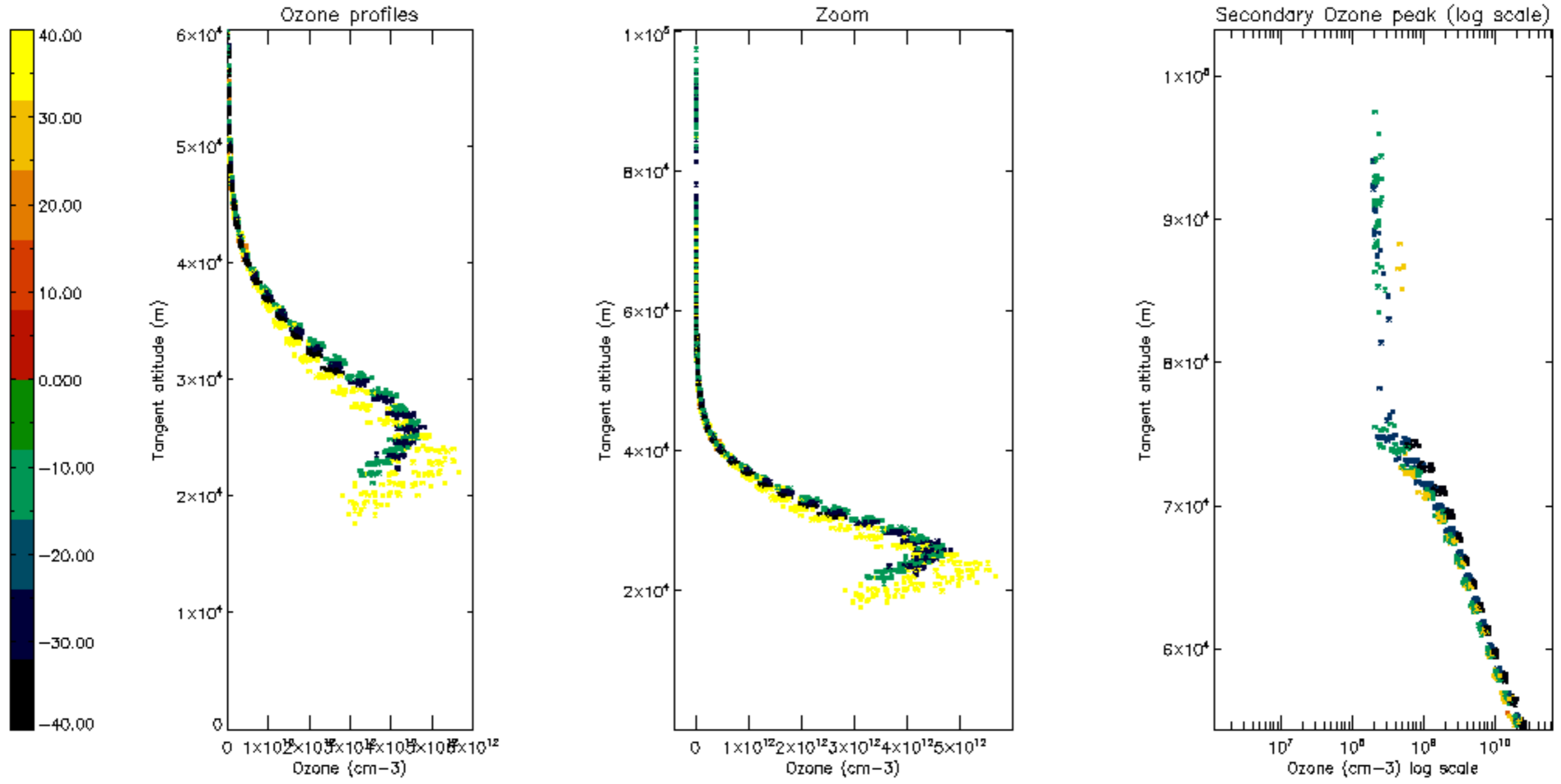


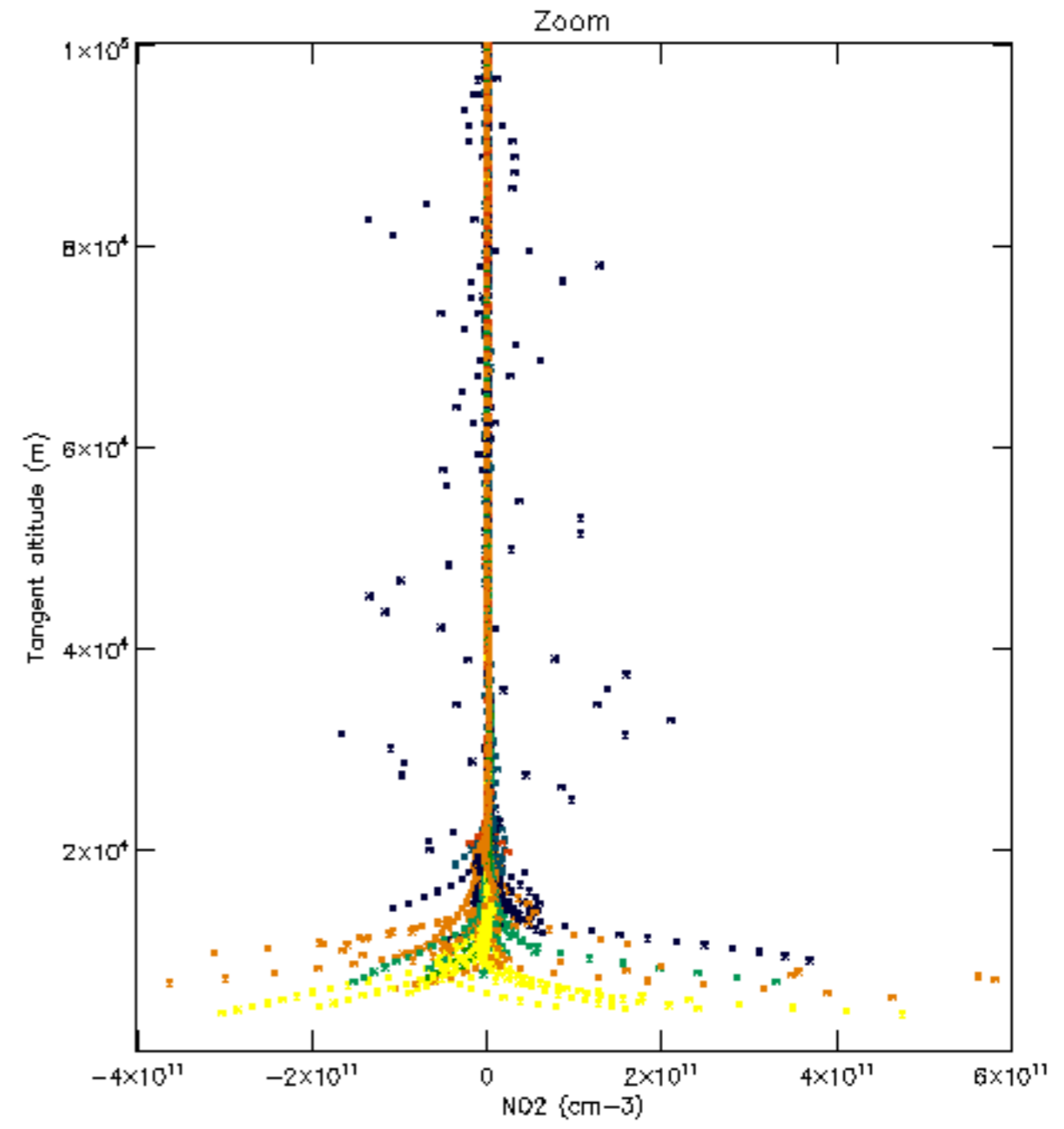
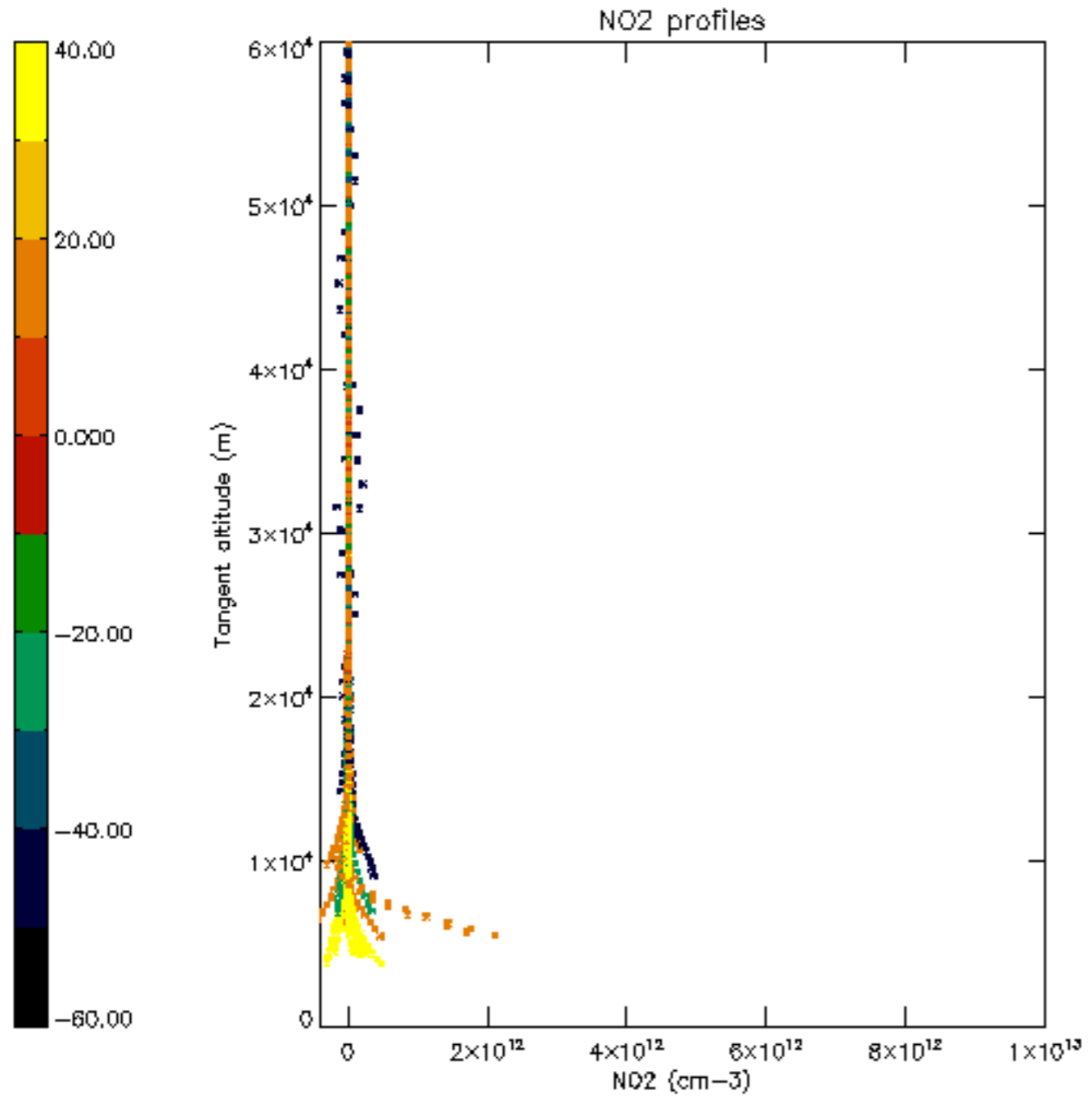


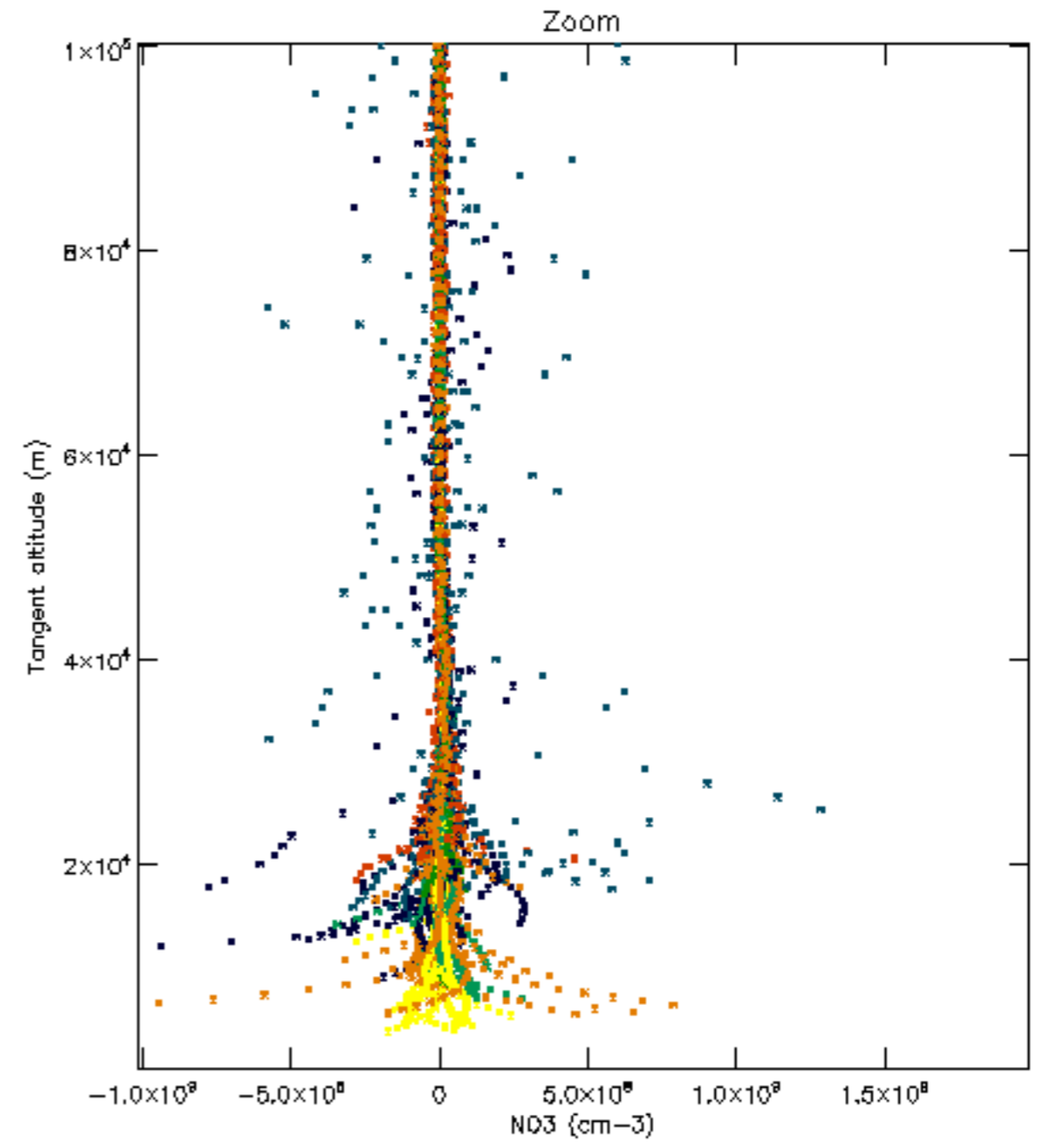
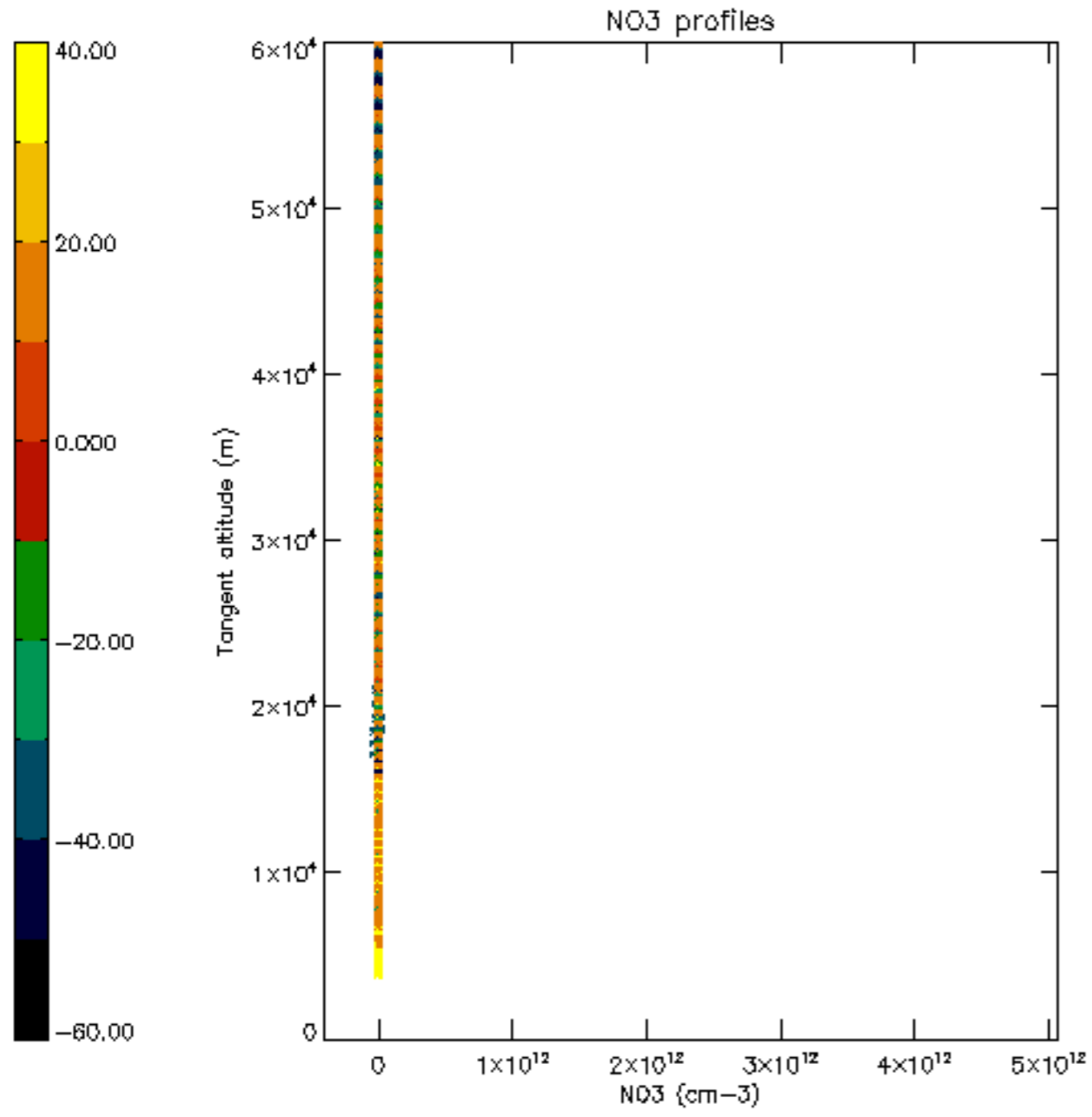


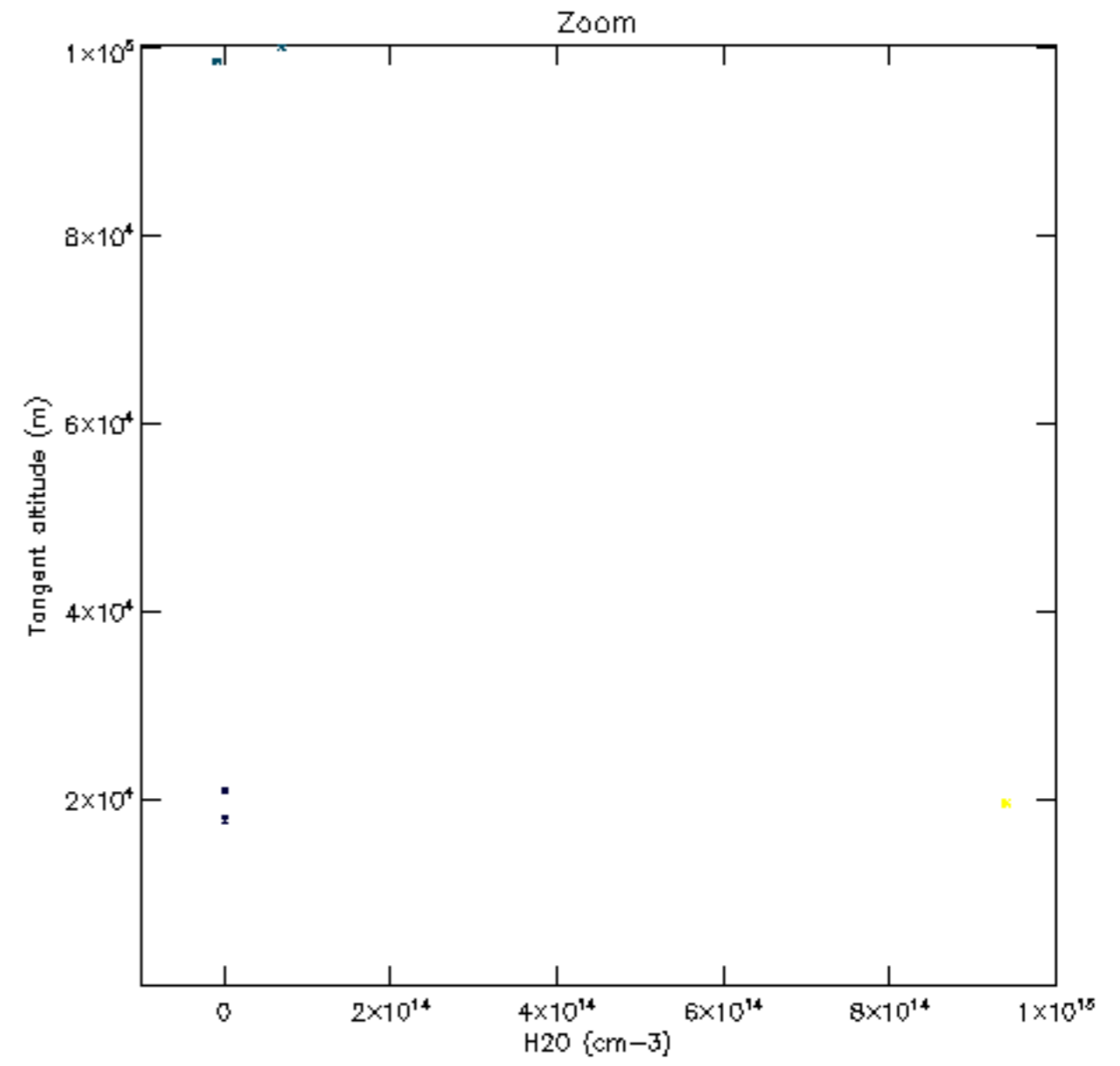
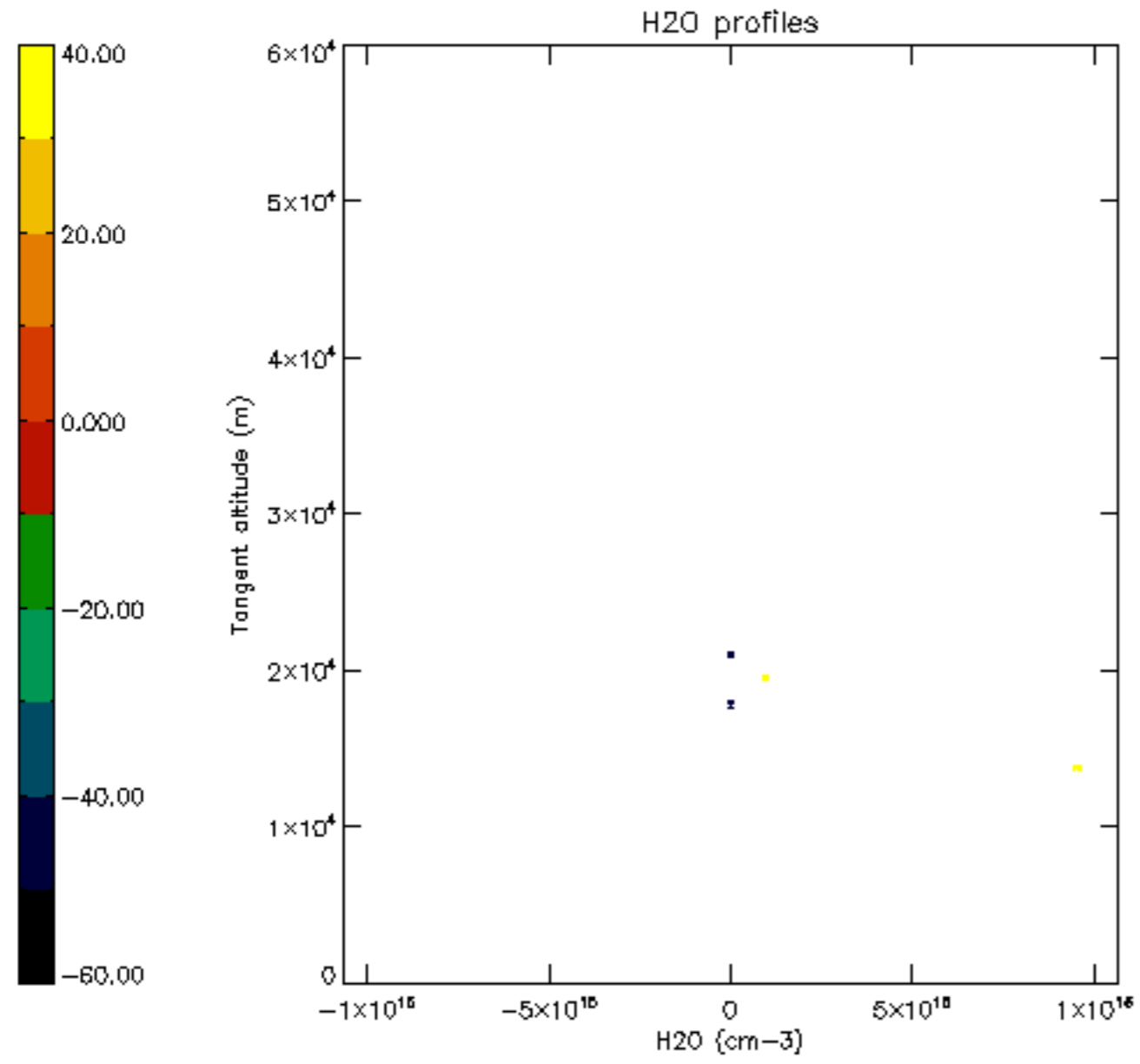


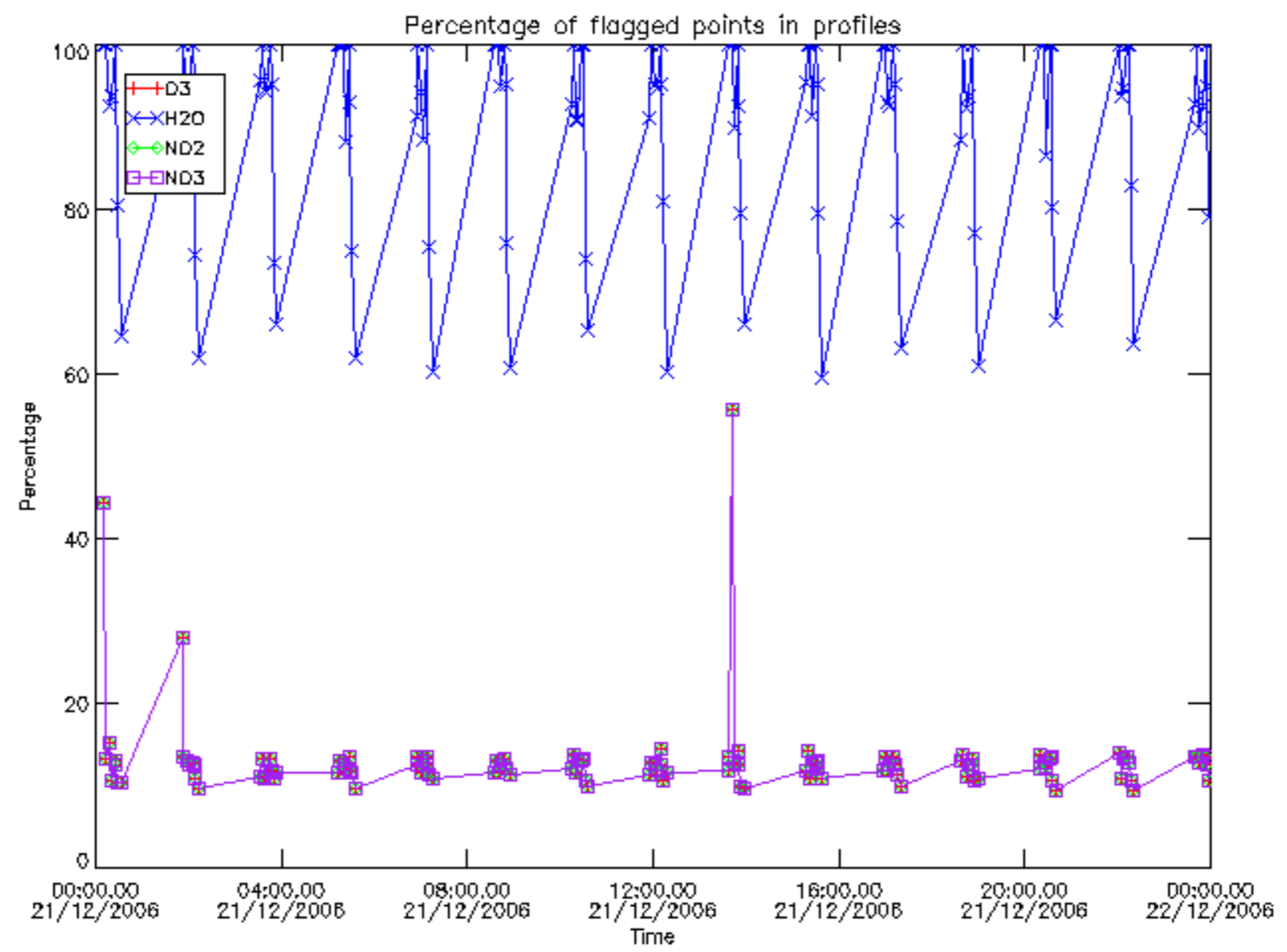




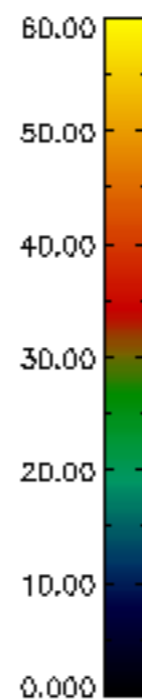
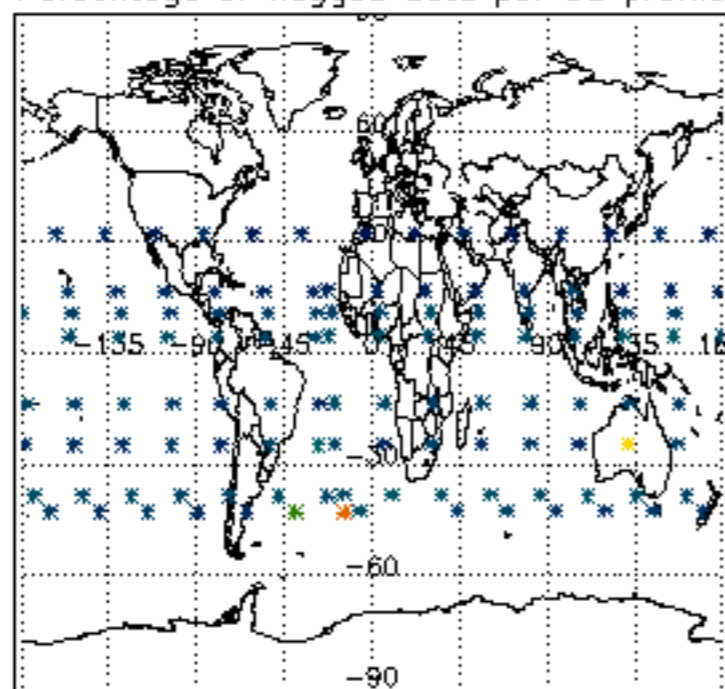




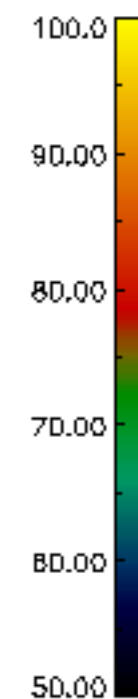
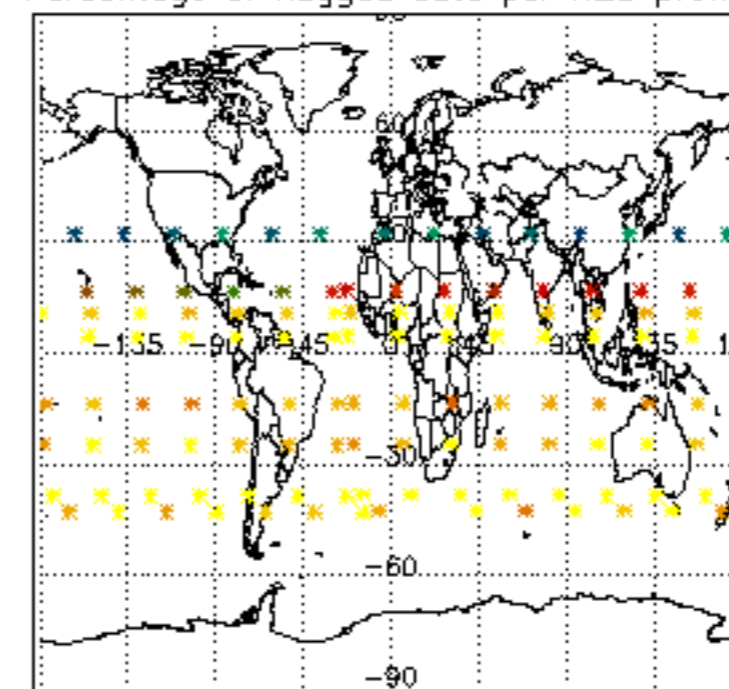




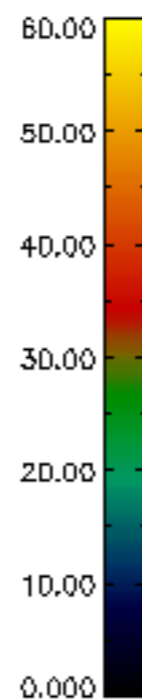
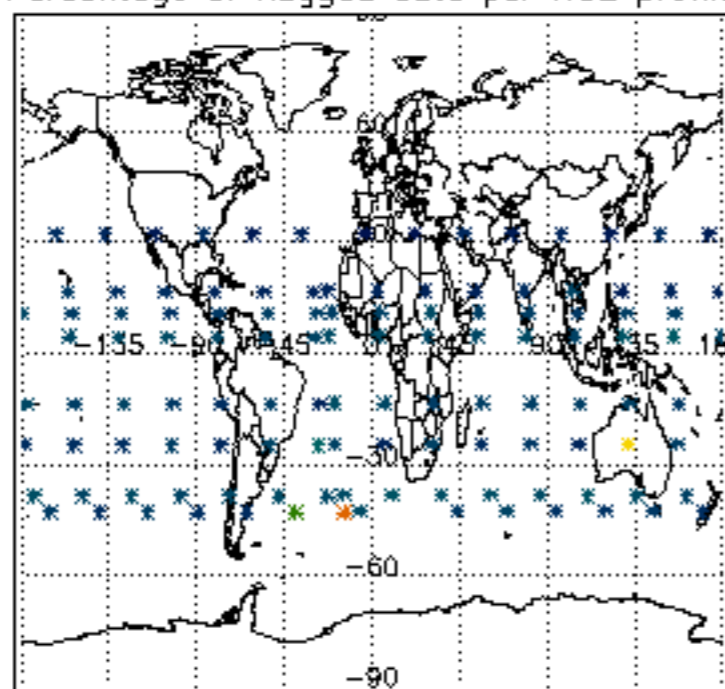
Percentage of flagged data per D3 profile



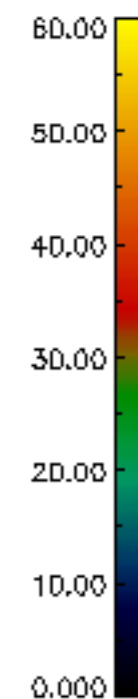
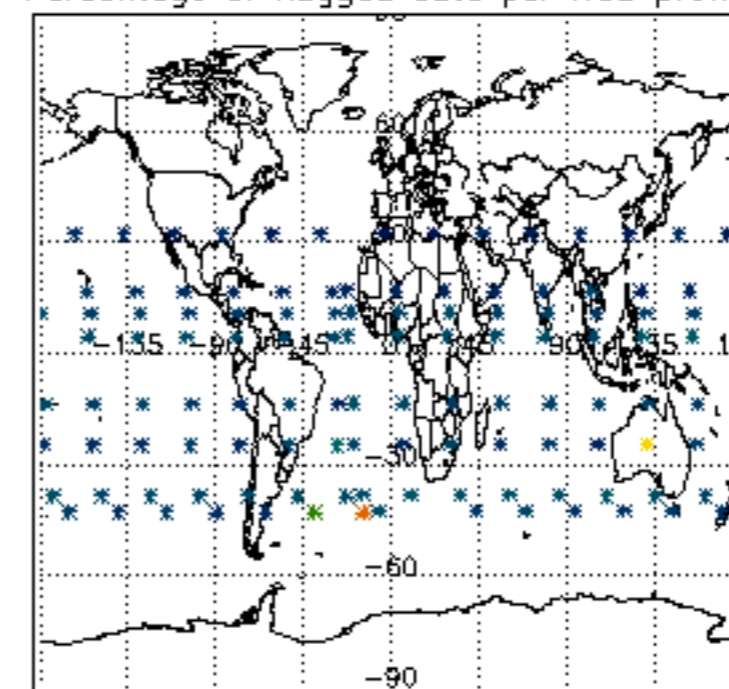
Percentage of flagged data per H2O profile

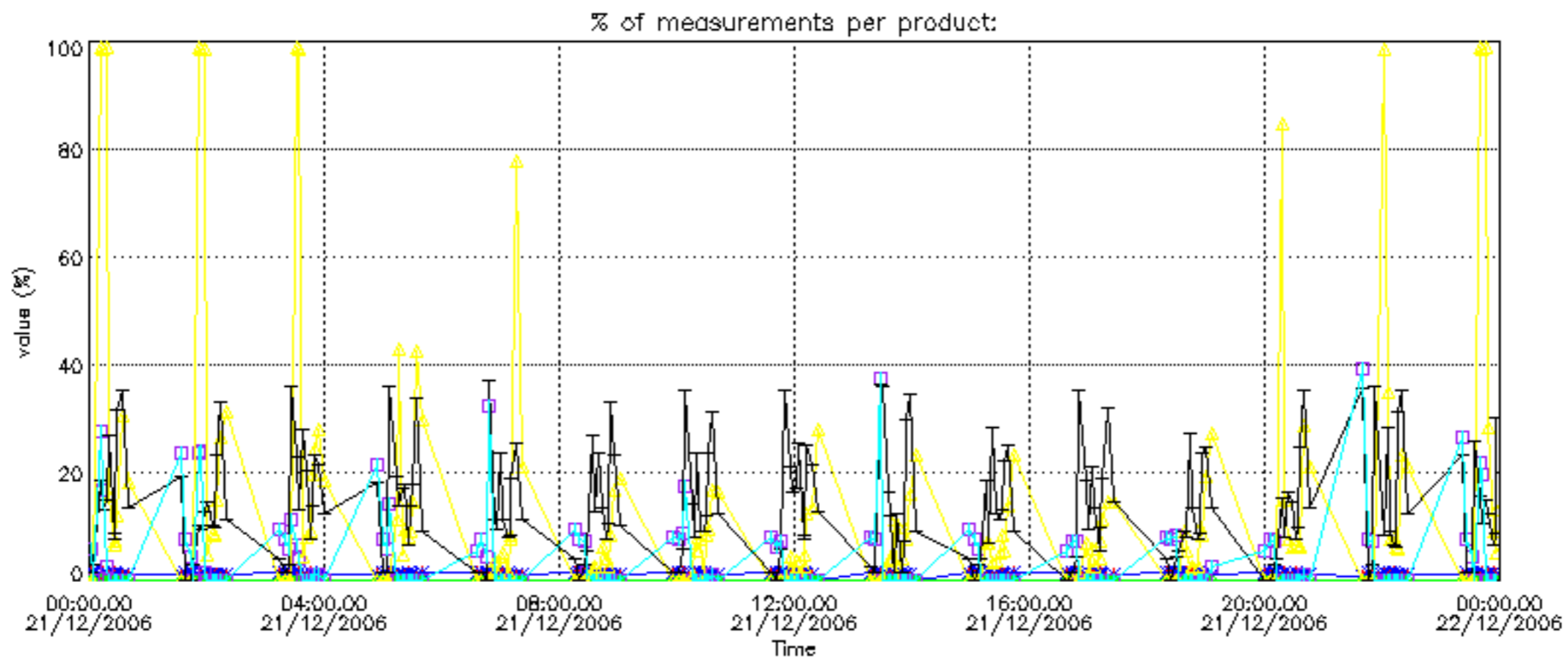


Percentage of flagged data per NO2 profile

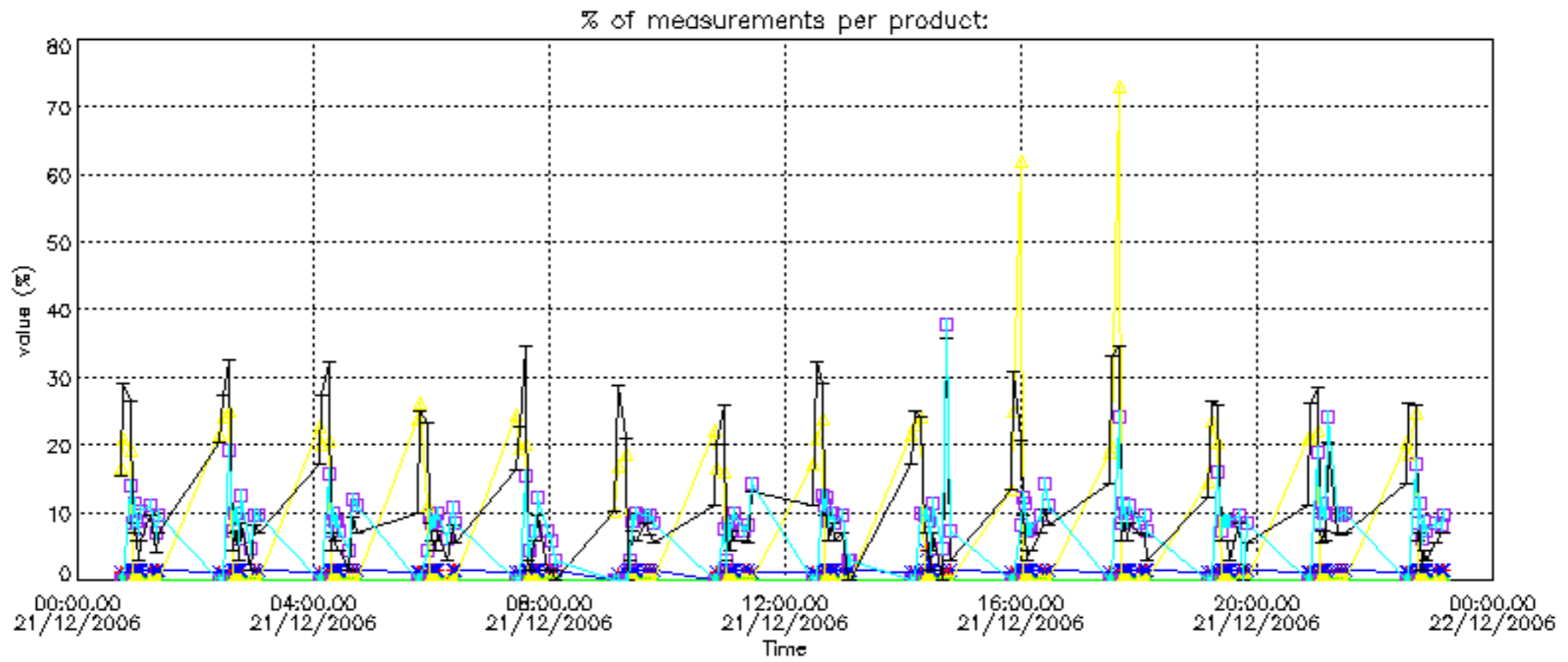


Percentage of flagged data per NO3 profile

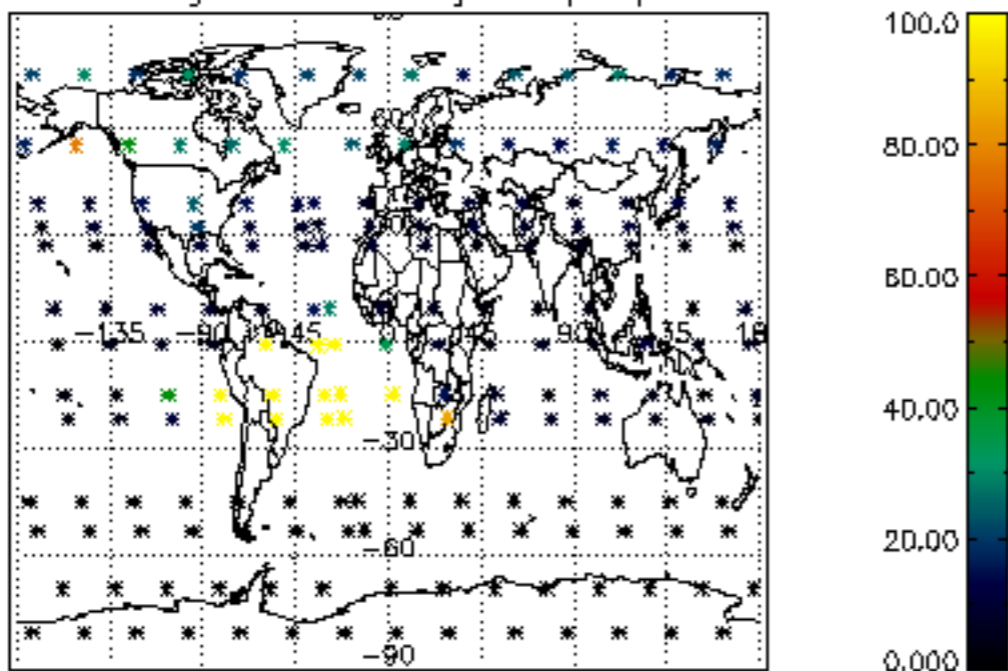




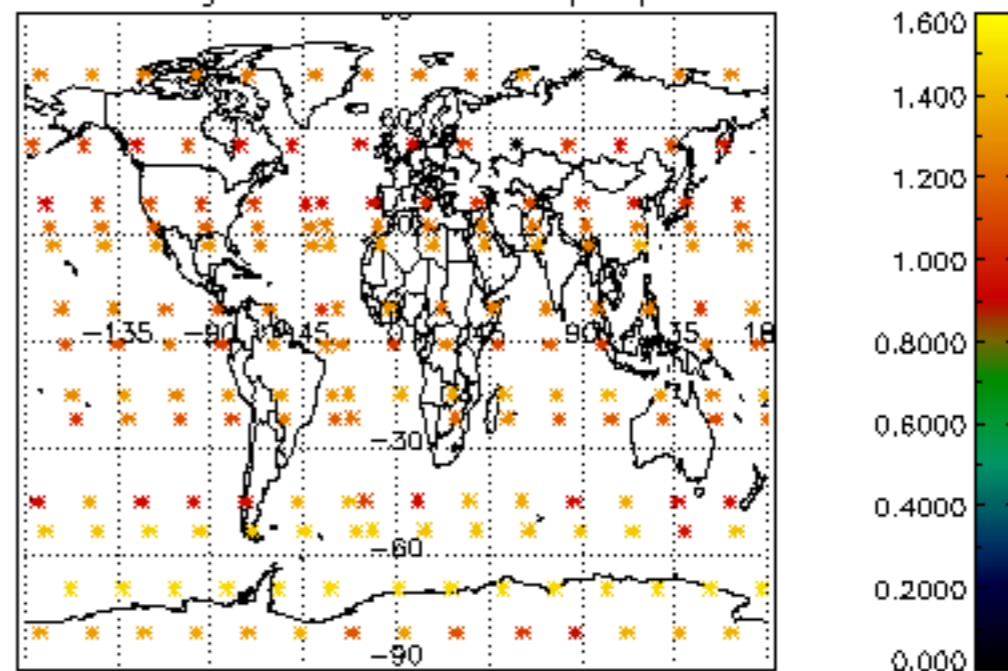




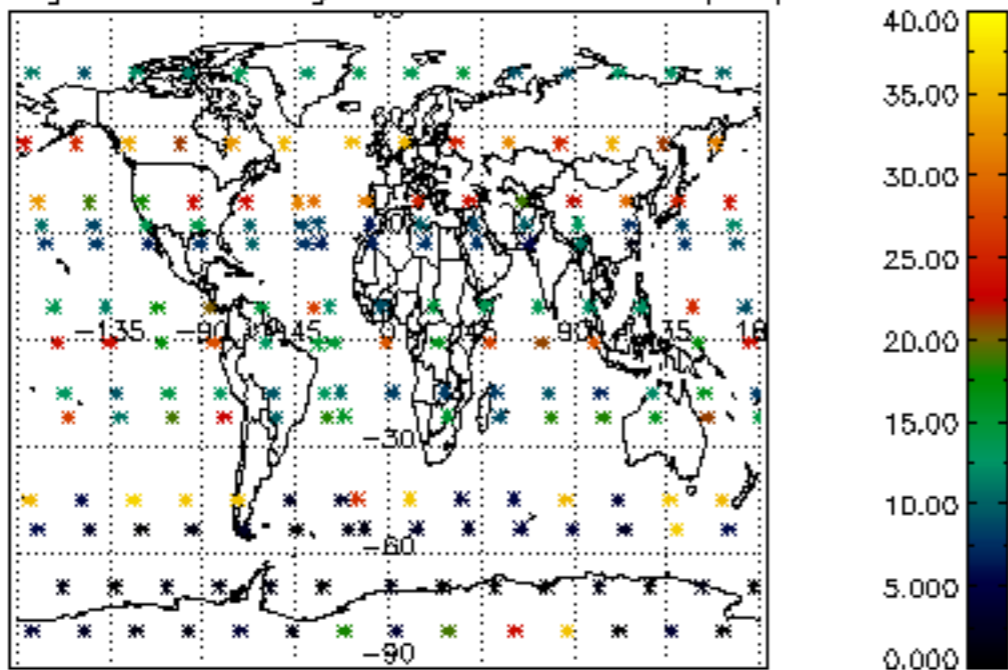
Percentage of cosmic ray hits per profile



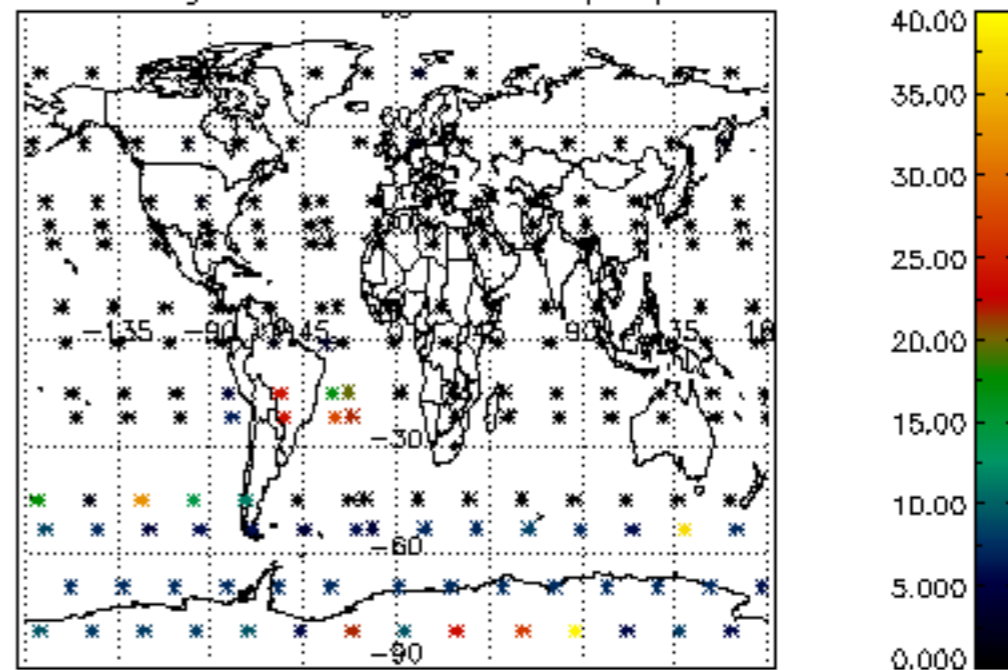
Percentage of datation errors per profile



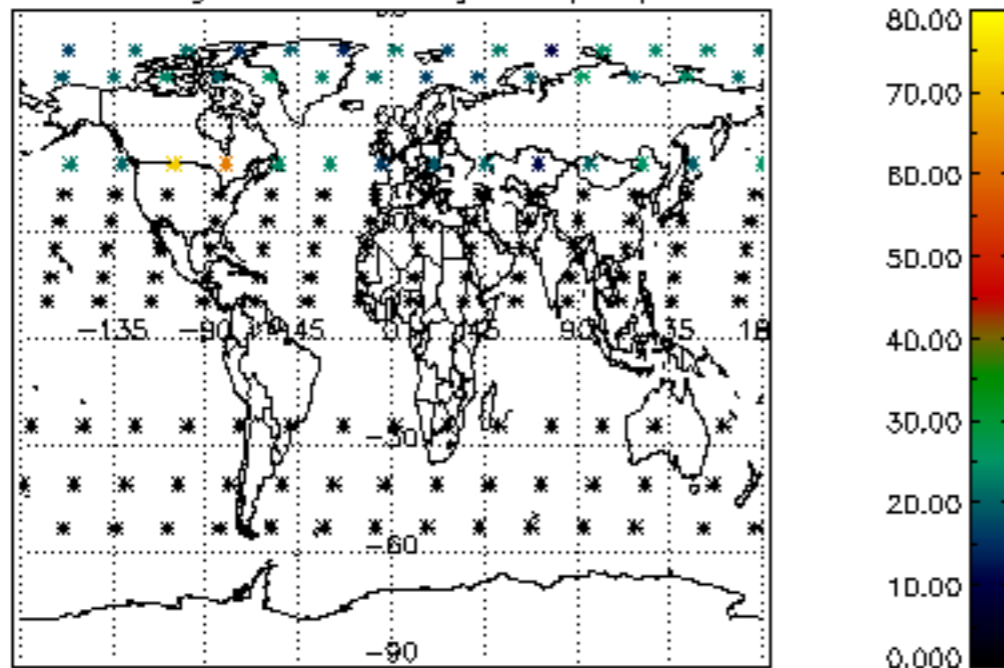
Percentage of star falling outside central band per profile



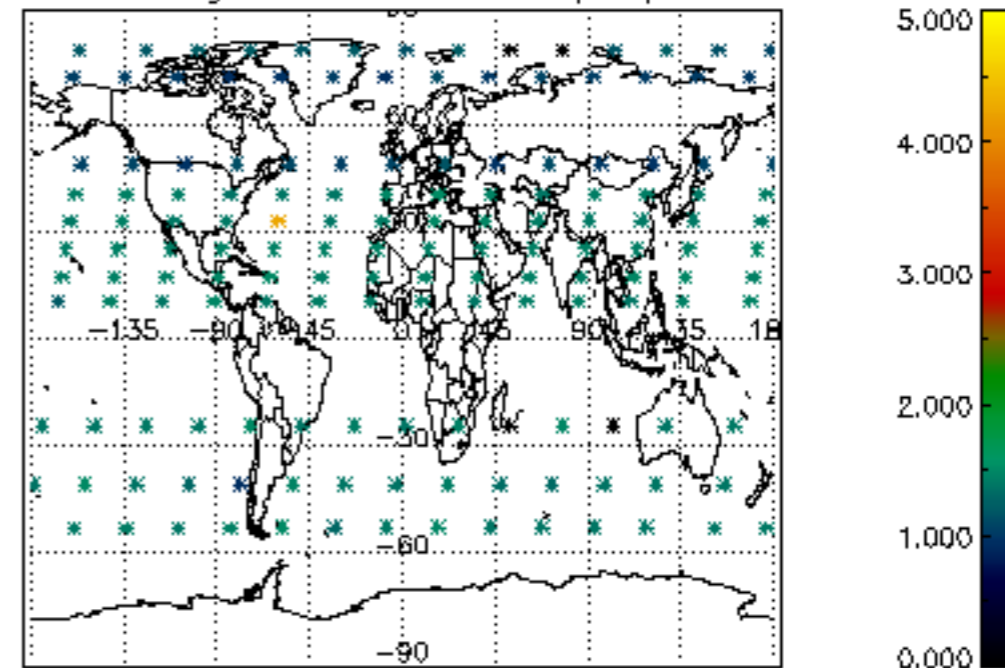
Percentage of saturation errors per profile



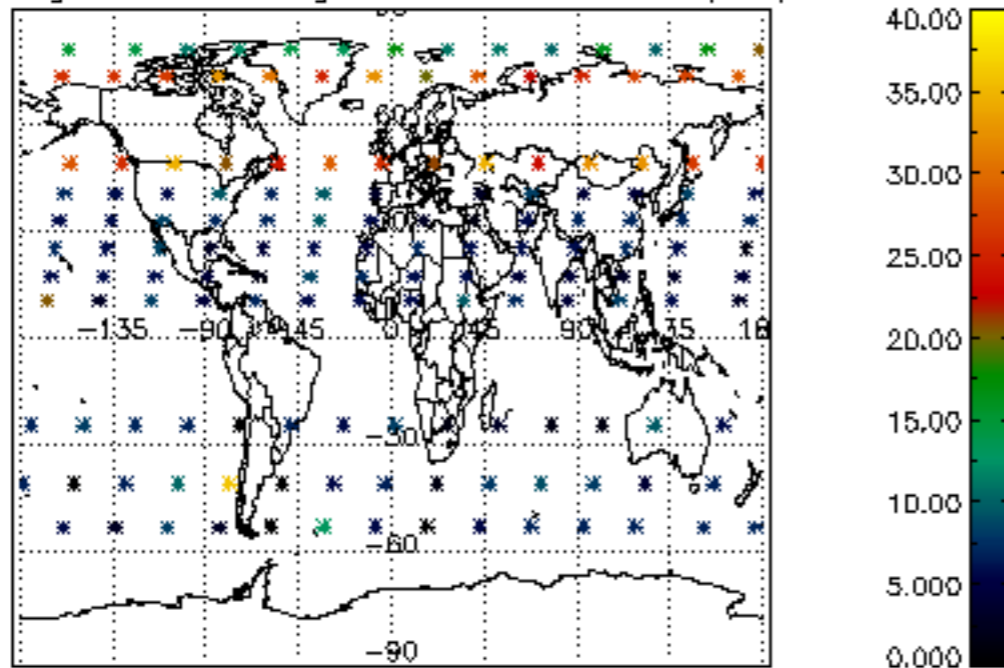
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

