

# GOMOS Level 2 Daily Report

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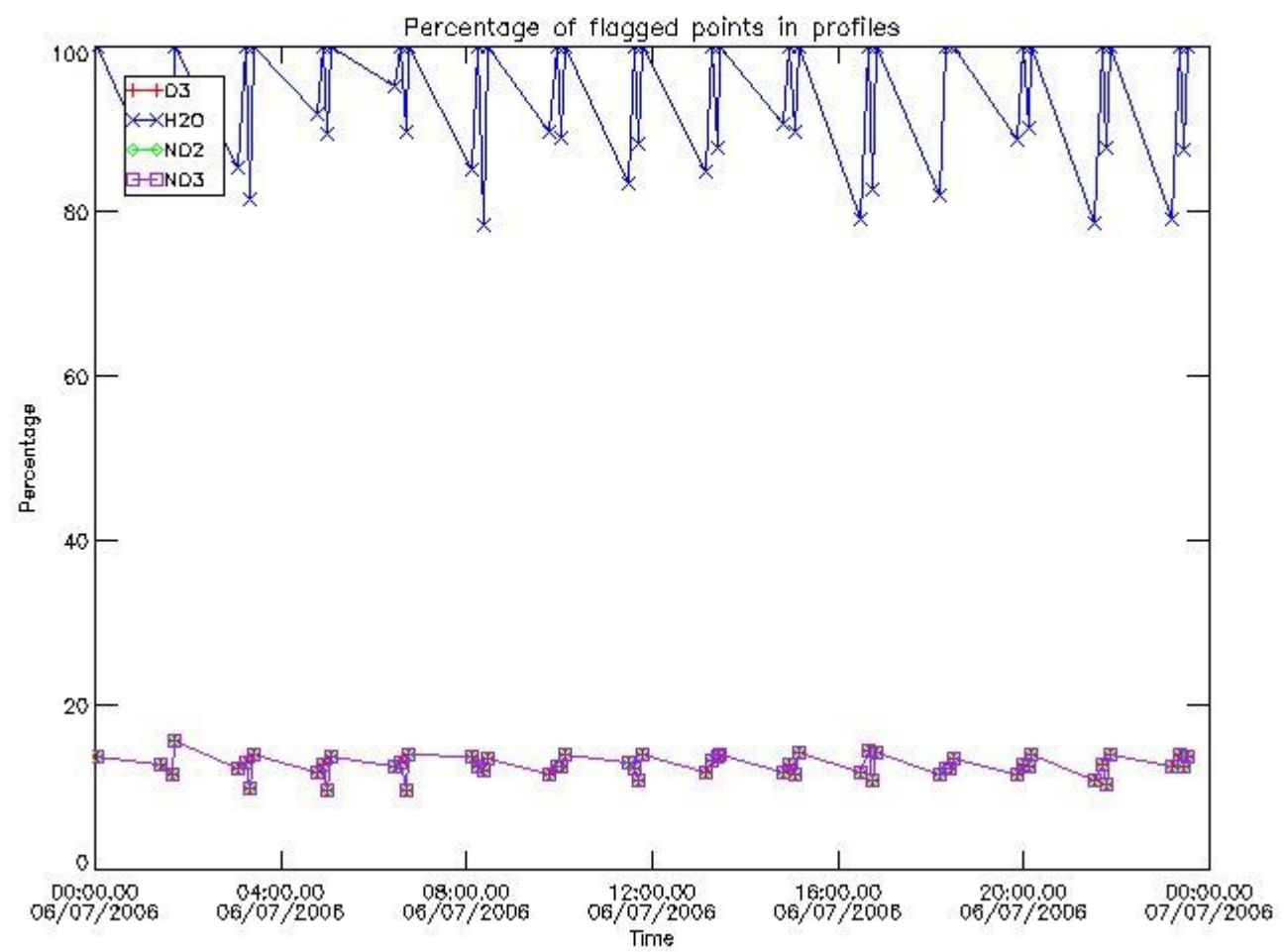






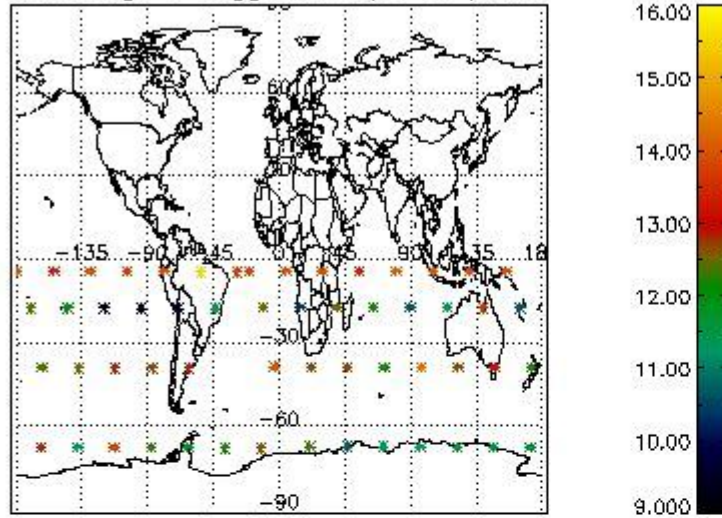




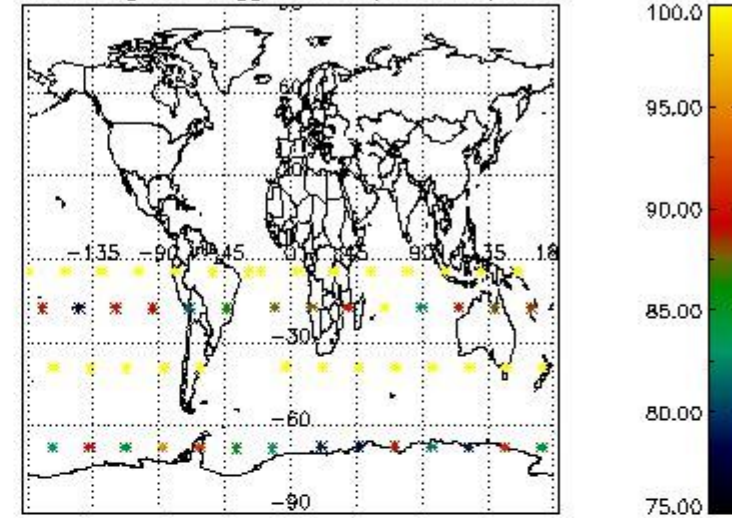


*3.2 Plot quality information per product (world map)*

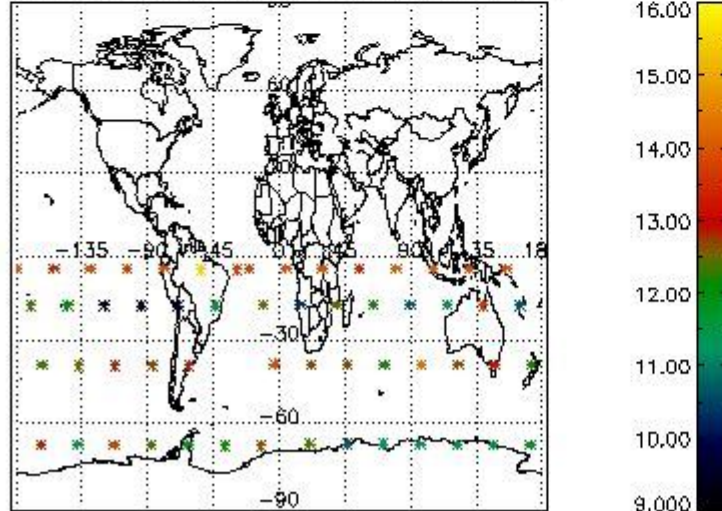
Percentage of flagged data per O3 profile



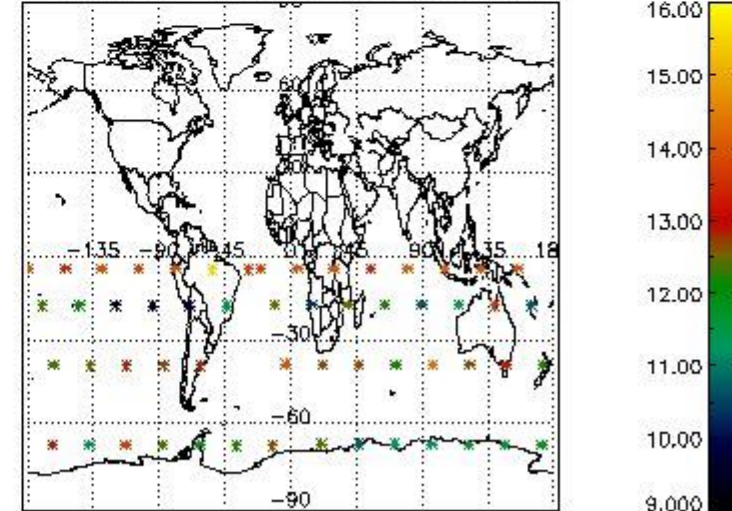
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile



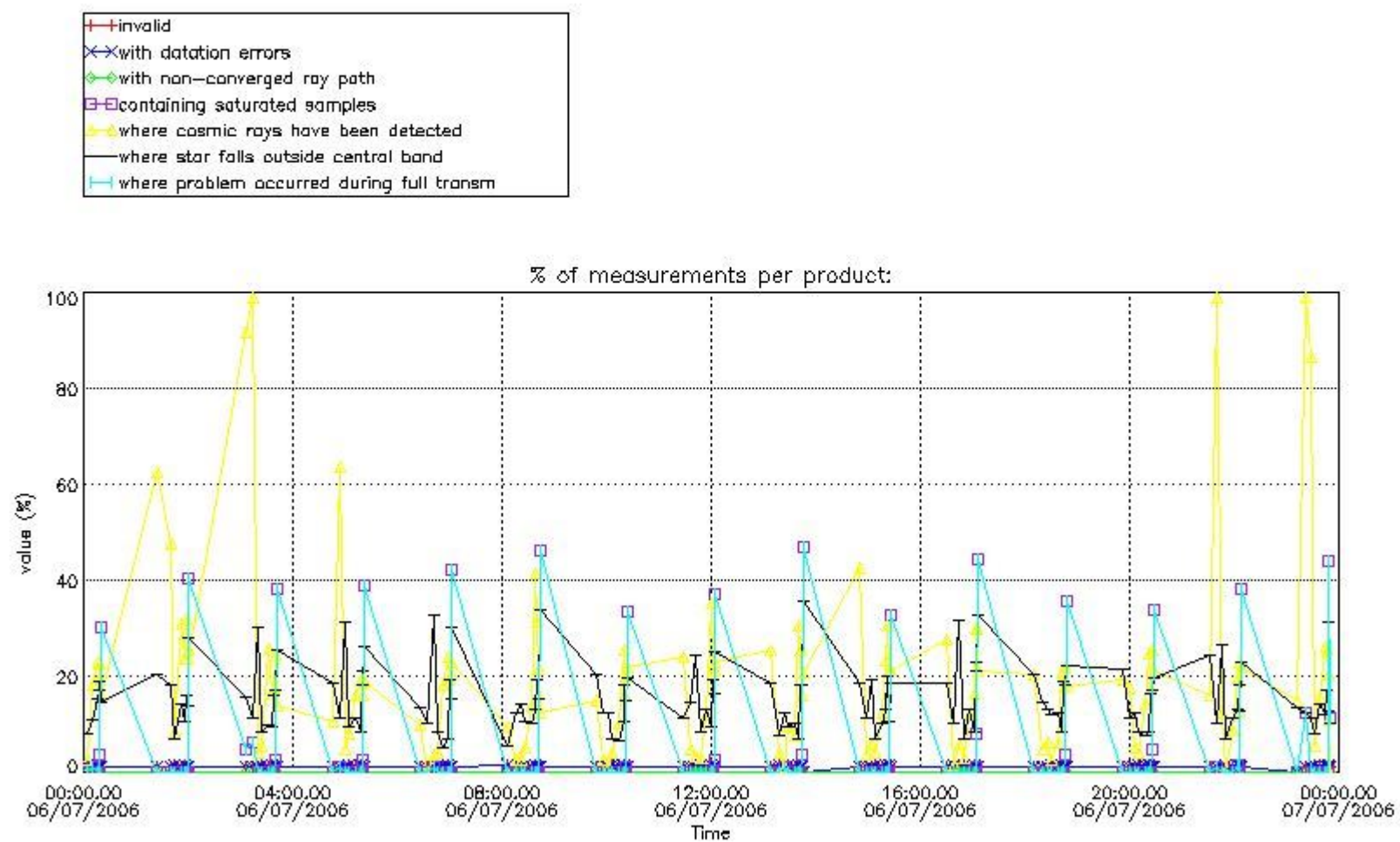
#### 4. Level 1 quality information per product

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.

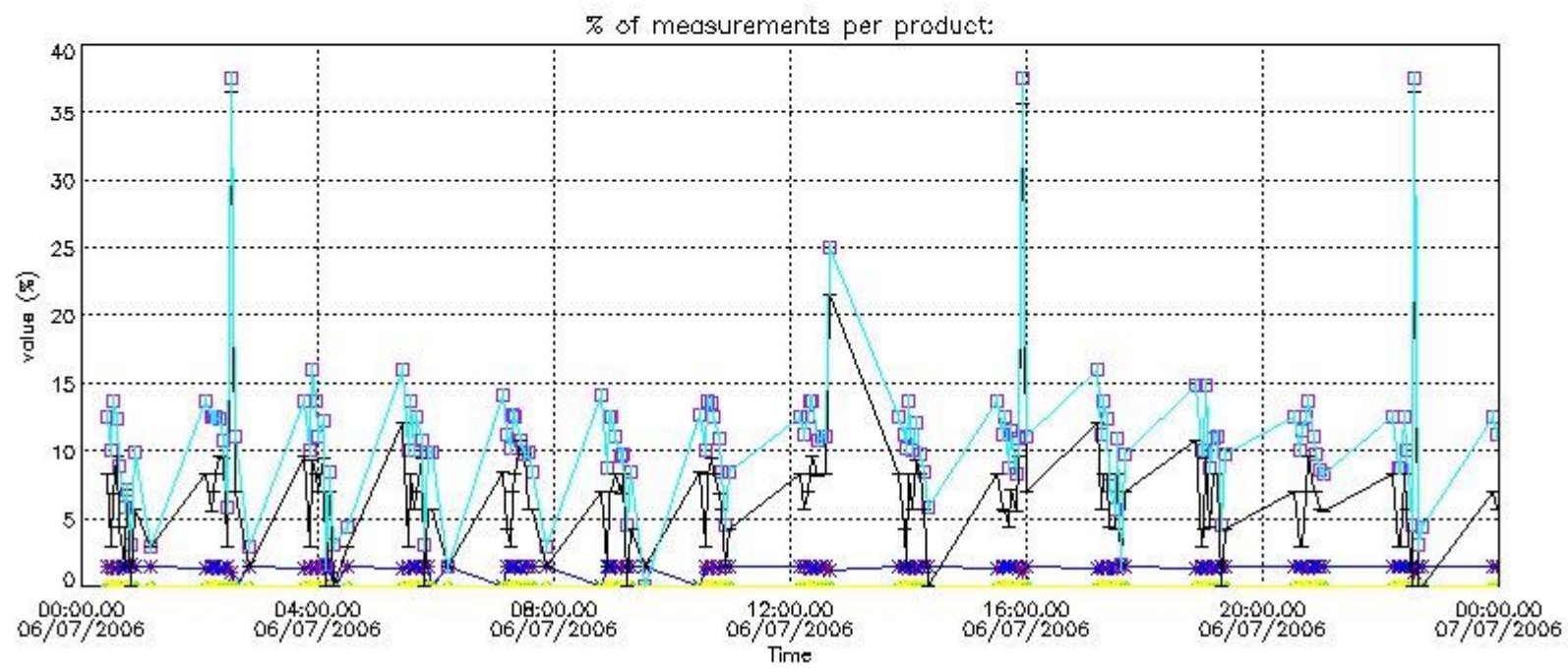
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

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



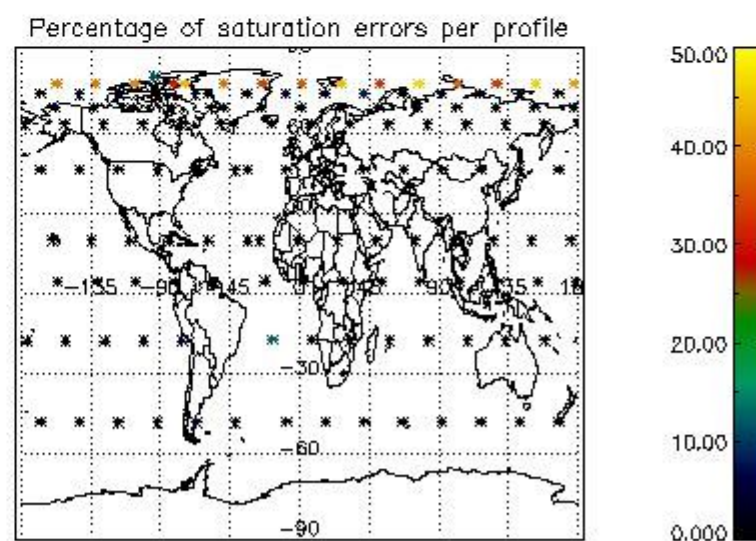
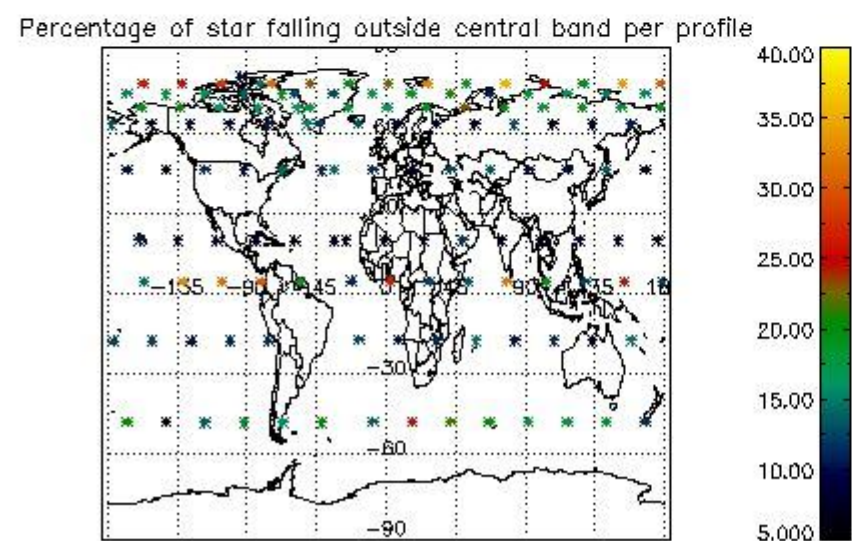
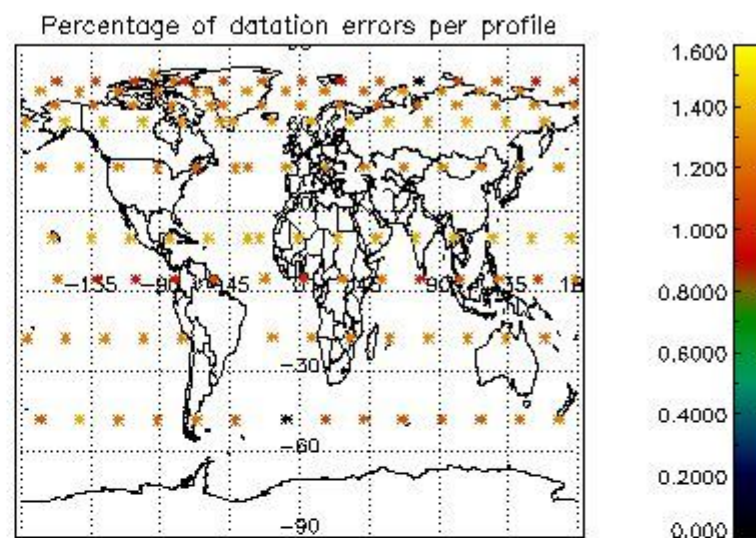
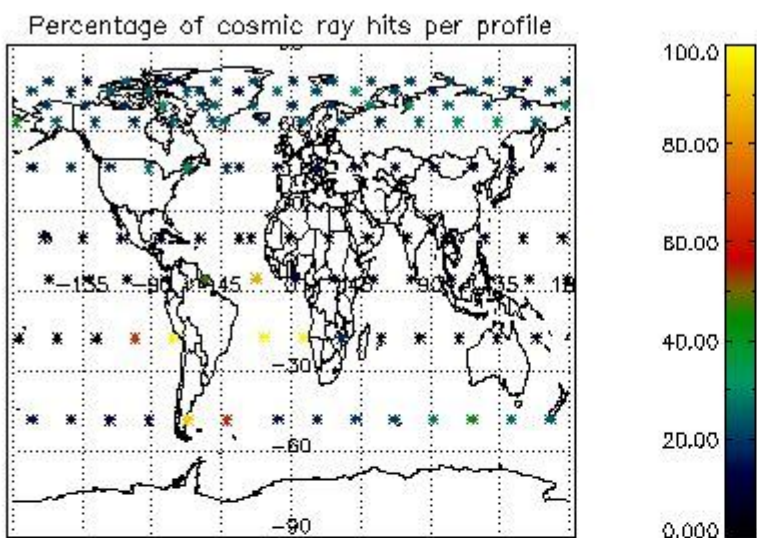


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

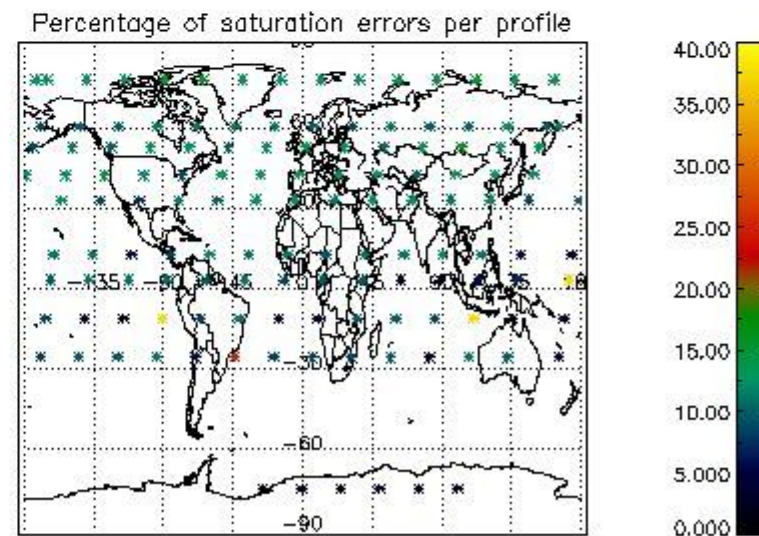
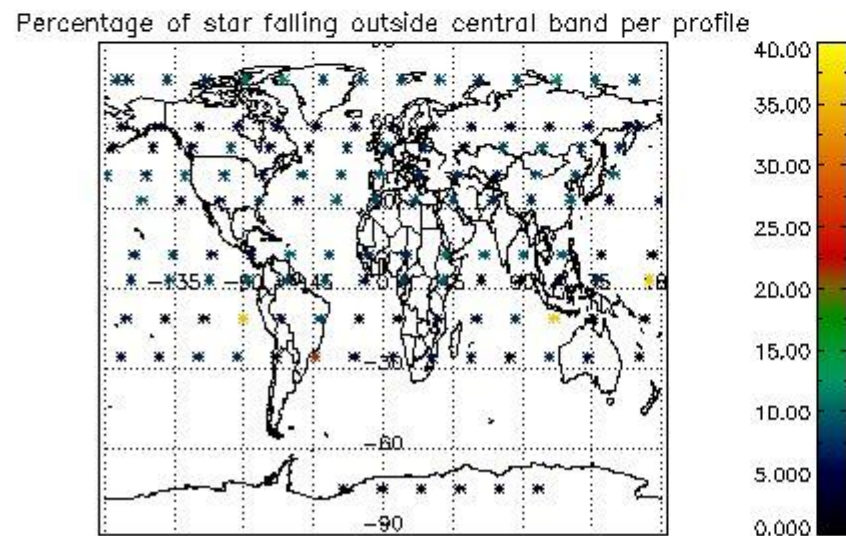
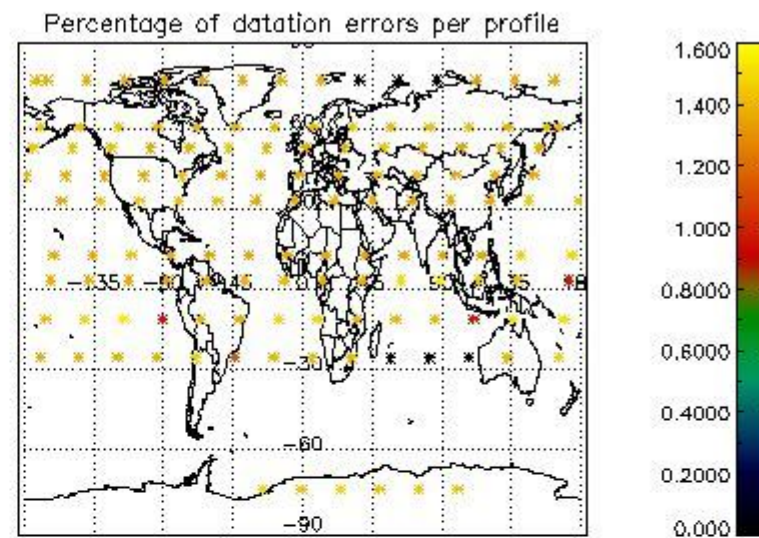
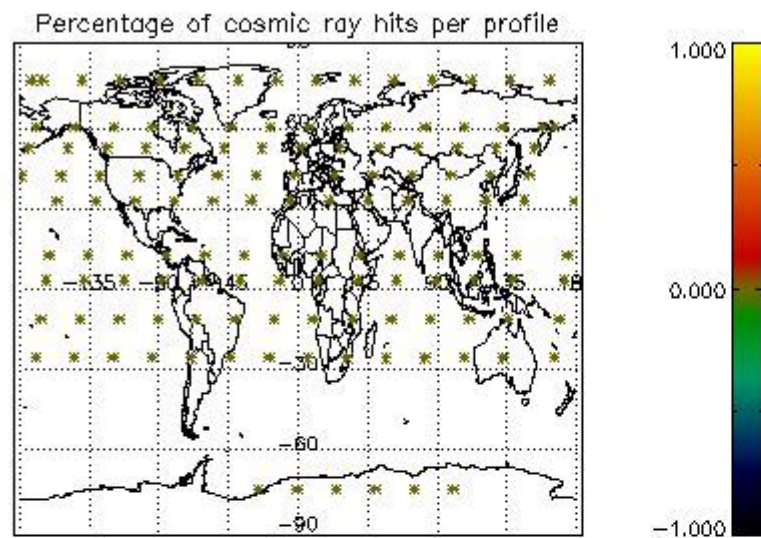


*4.2 Plot quality information per product coming from level 1b processing (world map)*

*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

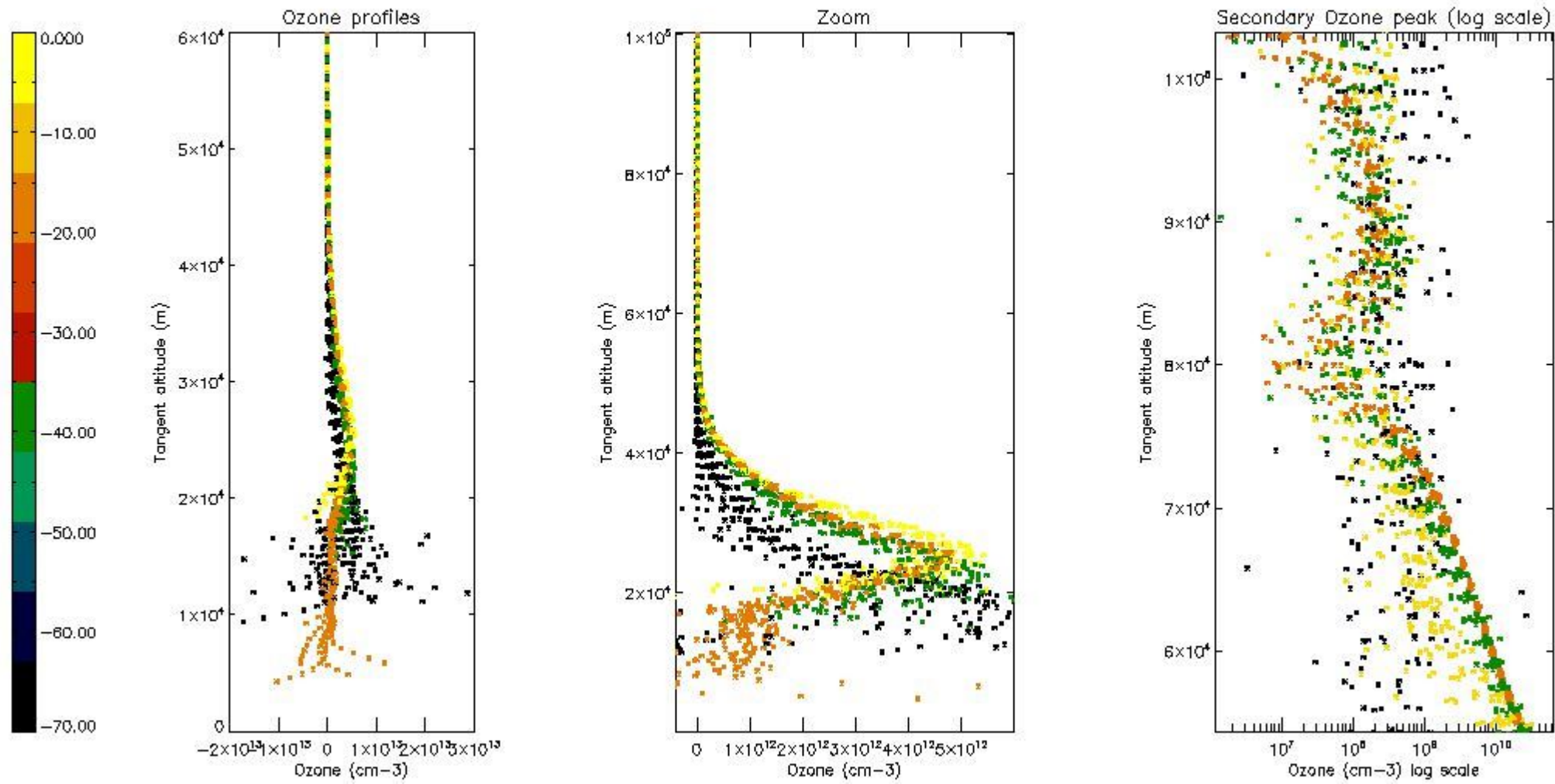
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	23
STD < 20	10

STD < 10	7
STD < 5	4

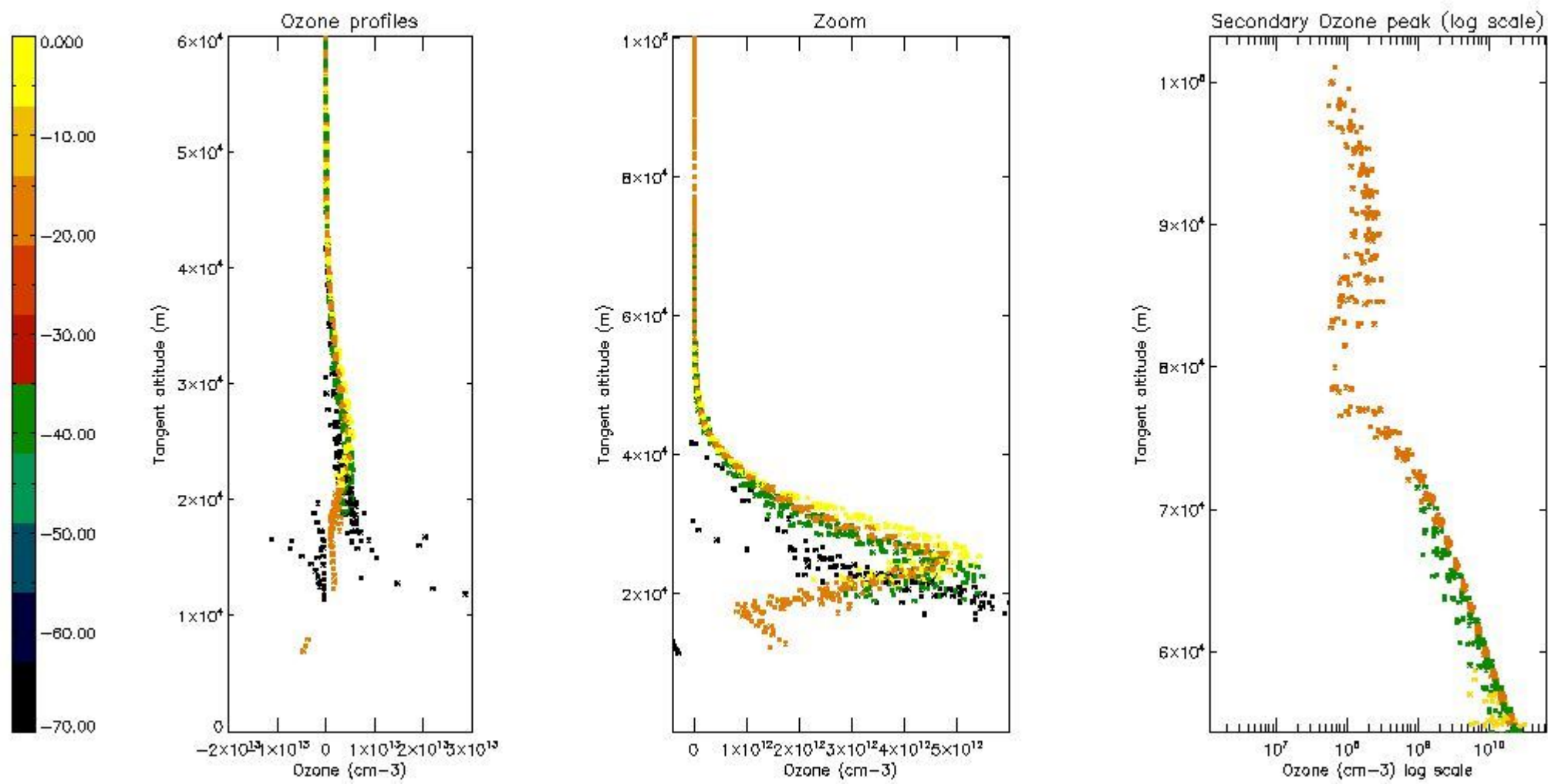
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



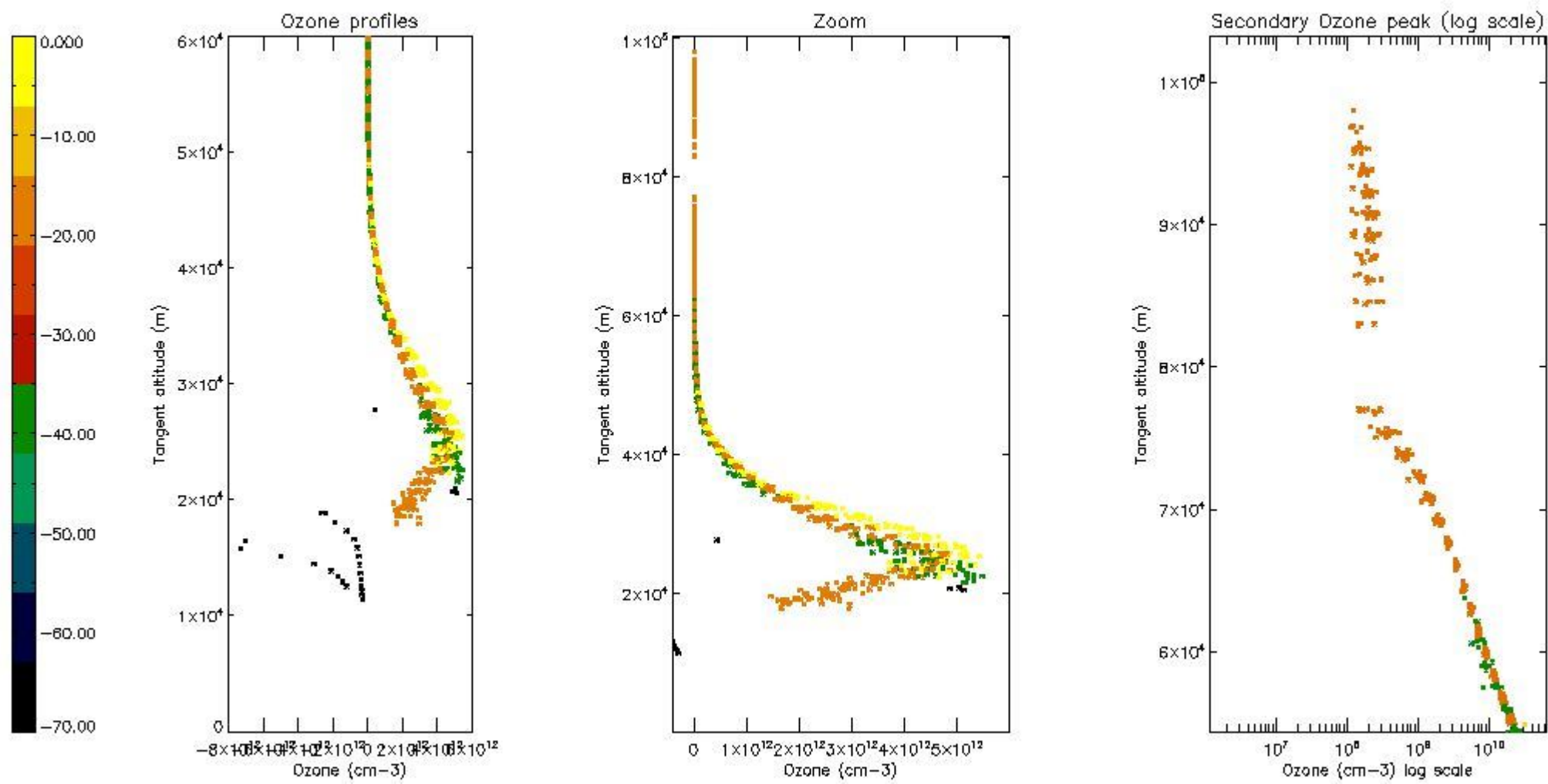
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



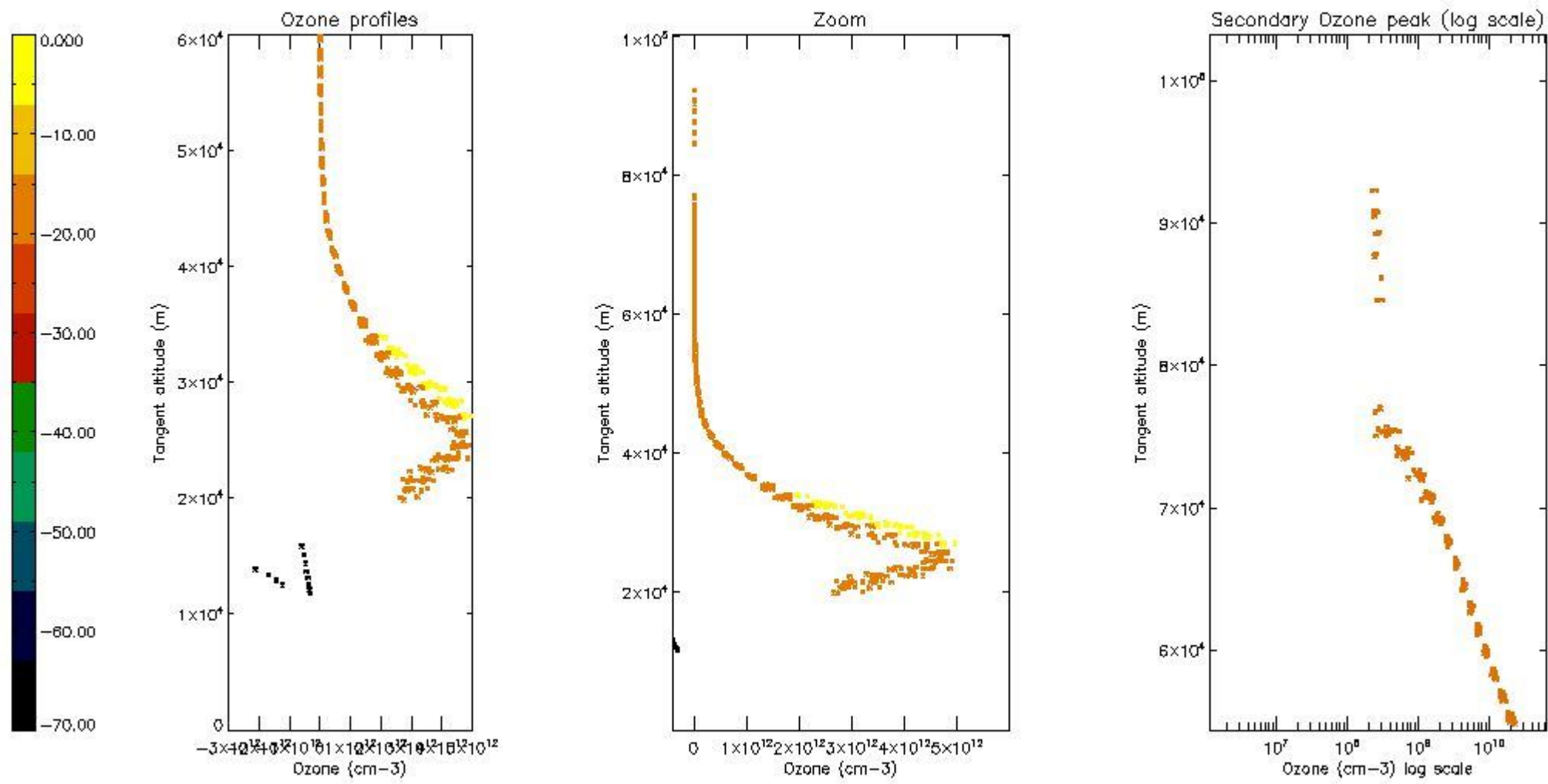
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



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

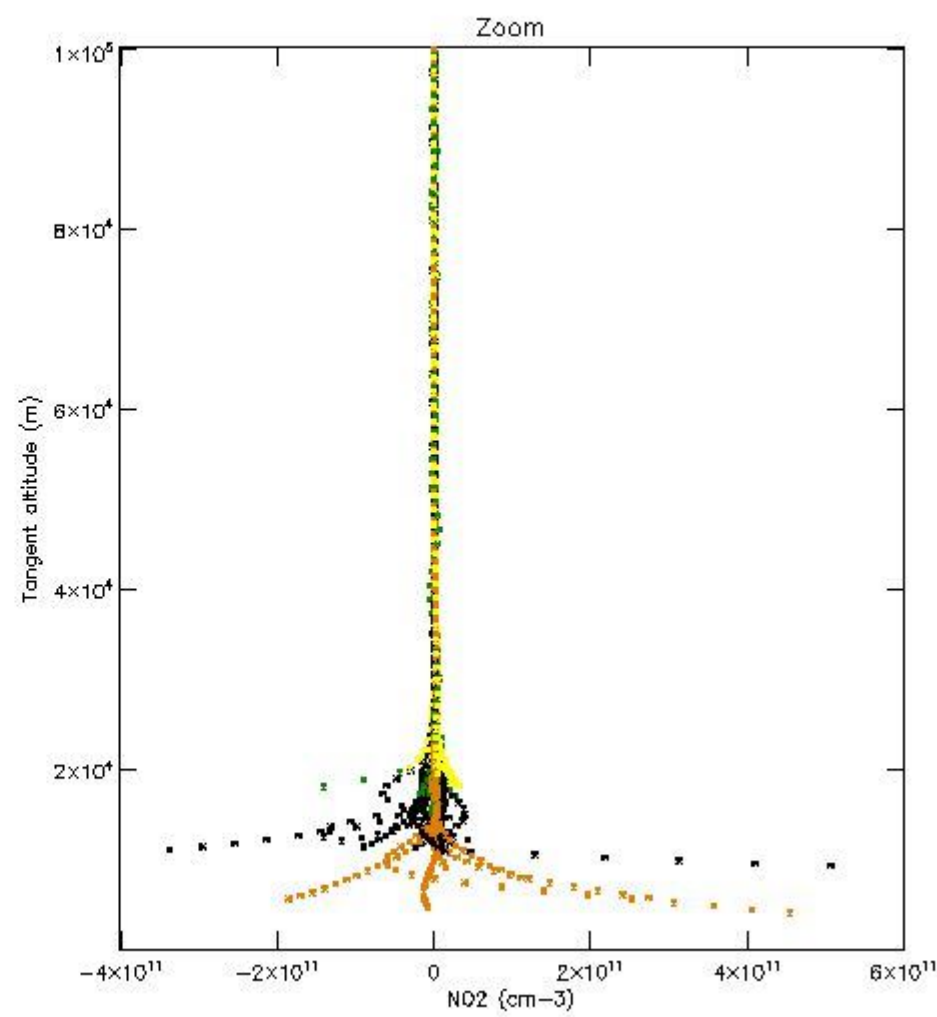
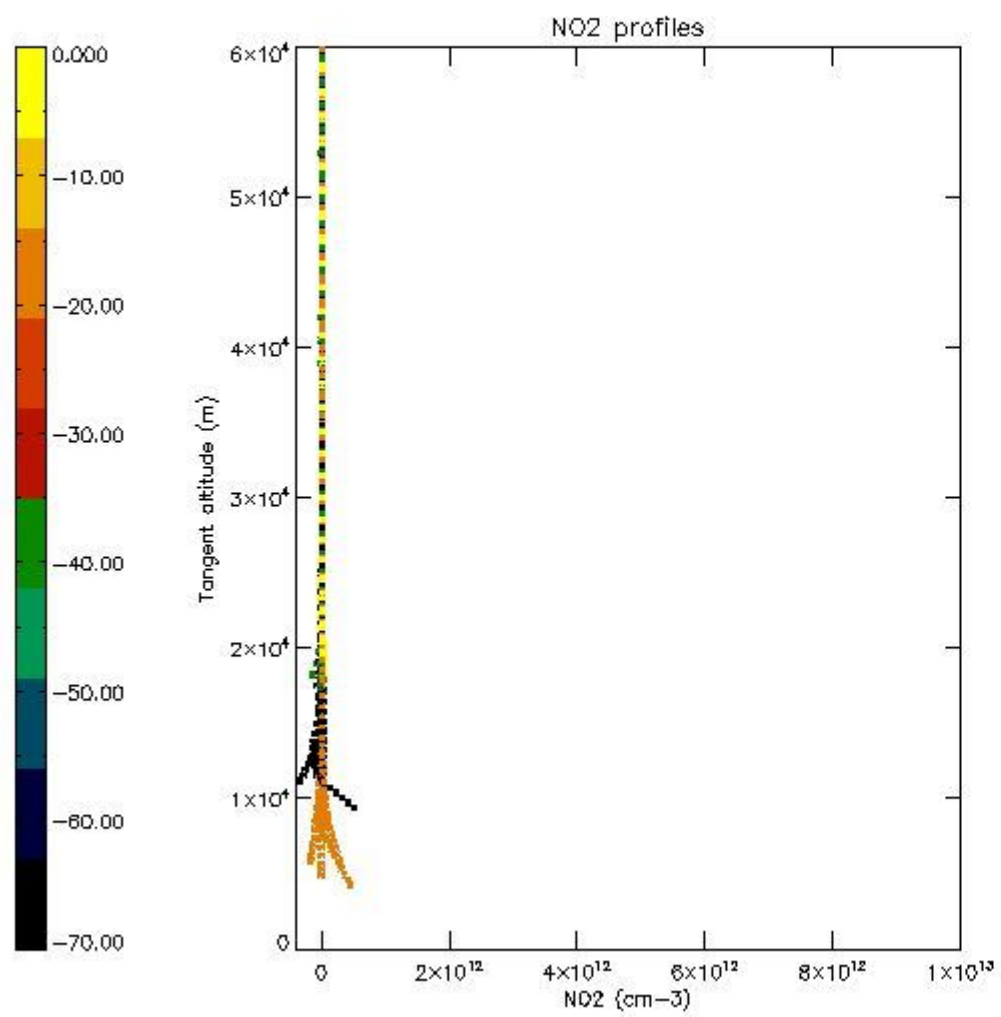
The colorbar represents the latitude.



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

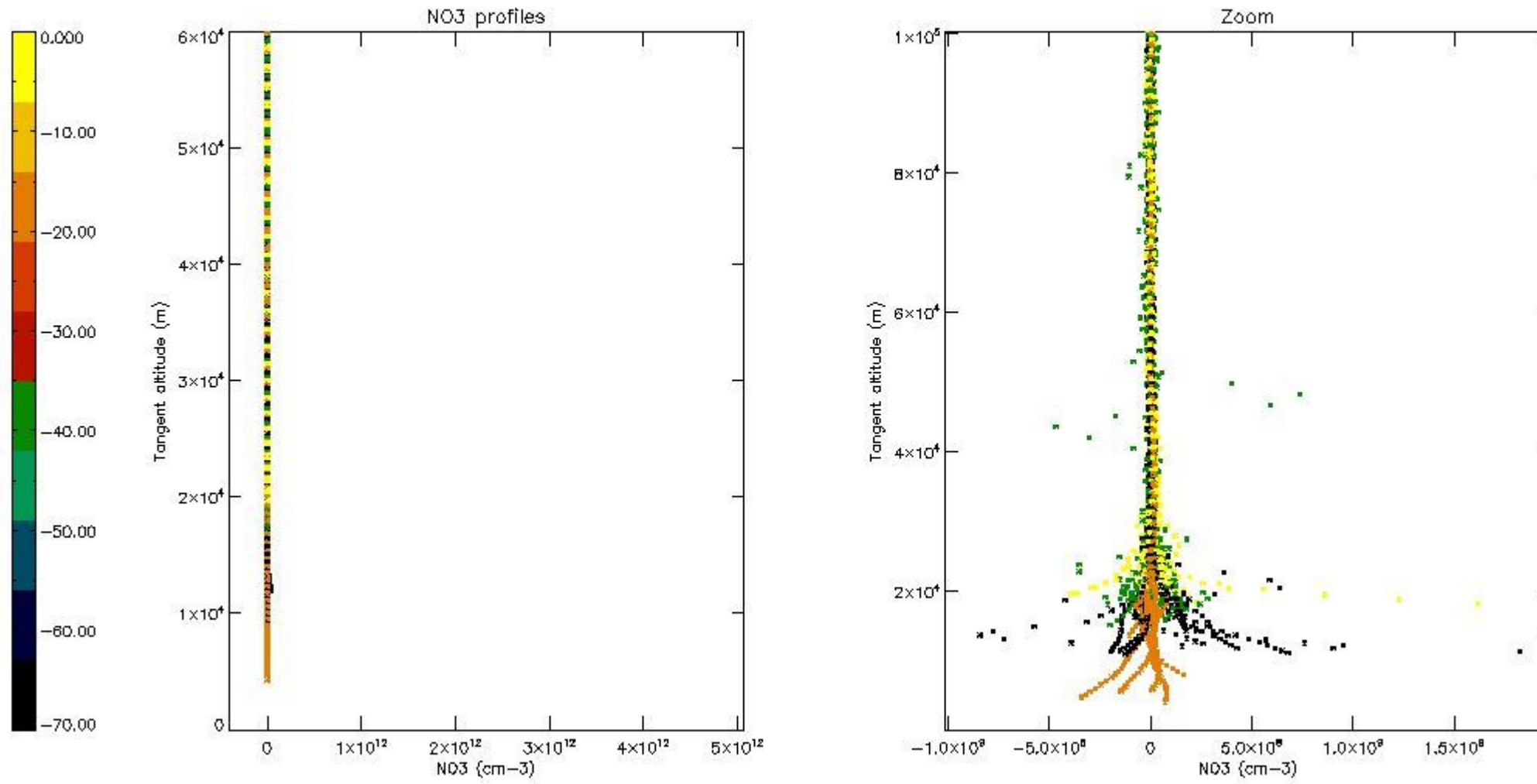
The colorbar represents the latitude.





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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	06-JUL-2006 00:03:03
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	06-JUL-2006 00:03:03
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	06-JUL-2006 00:03:03

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### [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	24APR2013 01:14:22
Data source version	GOMOS/6.01
Start time of products	06-07-2006 (06JUL2006 00:00:00)
Stop time of products	07-07-2006 (07JUL2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	266
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__2PRFIN20060706_000303_000000372049_00131_22730_9715.N1	06-JUL-2006 00:03:03	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	22730	No
2	GOM_NL__2PRFIN20060706_001029_000000412049_00131_22730_9716.N1	06-JUL-2006 00:10:29	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	22730	No
3	GOM_NL__2PRFIN20060706_001527_000000402049_00131_22730_9717.N1	06-JUL-2006 00:15:27	Twilight_and_stray	39.500	147	Alp Ara	2.8770	26000.	79	22730	No
4	GOM_NL__2PRFIN20060706_001716_000000412049_00131_22730_9718.N1	06-JUL-2006 00:17:16	Twilight_and_stray	41.000	40	The Sco	1.8590	7100.0	82	22730	No
5	GOM_NL__2PRFIN20060706_001856_000000422049_00131_22730_9719.N1	06-JUL-2006 00:18:56	Twilight_and_stray	42.000	25	35Lam Sco	1.6200	28000.	84	22730	No
6	GOM_NL__2PRFIN20060706_002022_000000422049_00131_22730_9720.N1	06-JUL-2006 00:20:22	Bright	41.500	116	19Del Sgr	2.7000	4100.0	83	22730	No
7	GOM_NL__2PRFIN20060706_002505_000000362049_00131_22730_9721.N1	06-JUL-2006 00:25:05	Bright	36.000	86	35Eta Oph	2.4300	10200.	72	22730	No
8	GOM_NL__2PRFIN20060706_003034_000000352049_00131_22730_9722.N1	06-JUL-2006 00:30:34	Bright	35.000	126	60Bet Oph	2.7700	4250.0	70	22730	No
9	GOM_NL__2PRFIN20060706_003252_000000372049_00131_22730_9723.N1	06-JUL-2006 00:32:52	Bright	36.500	59	55Alp Oph	2.0800	8900.0	73	22730	No
10	GOM_NL__2PRFIN20060706_003547_000000372049_00131_22730_9724.N1	06-JUL-2006 00:35:47	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	22730	No
11	GOM_NL__2PRFIN20060706_003826_000000342049_00131_22730_9725.N1	06-JUL-2006 00:38:26	Bright	34.000	133	40Zet Her	2.8070	6000.0	68	22730	No
12	GOM_NL__2PRFIN20060706_004412_000000342049_00131_22730_9726.N1	06-JUL-2006 00:44:12	Bright	34.000	130	23Bet Dra	2.7990	5800.0	68	22730	No
13	GOM_NL__2PRFIN20060706_004648_000000352049_00131_22730_9727.N1	06-JUL-2006 00:46:48	Bright	35.000	119	14Eta Dra	2.7270	4700.0	70	22730	No
14	GOM_NL__2PRFIN20060706_005053_000000332049_00131_22730_9728.N1	06-JUL-2006 00:50:53	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	22730	No
15	GOM_NL__2PRFIN20060706_005456_000000362049_00131_22730_9729.N1	06-JUL-2006 00:54:56	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	22730	No
16	GOM_NL__2PRFIN20060706_010916_000000352049_00131_22730_9730.N1	06-JUL-2006 01:09:16	Bright	34.500	149	45Eps Per	2.8880	30000.	69	22730	No
17	GOM_NL__2PRFIN20060706_012433_000000442049_00131_22730_9731.N1	06-JUL-2006 01:24:33	Dark	44.000	165	34Gam Eri	2.9500	3200.0	88	22730	No
18	GOM_NL__2PRFIN20060706_013919_000000442049_00132_22731_9714.N1	06-JUL-2006 01:39:19	Dark	44.000	9	Alp Eri	0.45300	24000.	88	22731	No
19	GOM_NL__2PRFIN20060706_014339_000000362049_00132_22731_9715.N1	06-JUL-2006 01:43:39	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	22731	No
20	GOM_NL__2PRFIN20060706_015106_000000422049_00132_22731_9716.N1	06-JUL-2006 01:51:06	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	22731	No
21	GOM_NL__2PRFIN20060706_015603_000000382049_00132_22731_9717.N1	06-JUL-2006 01:56:03	Twilight_and_stray	38.000	147	Alp Ara	2.8770	26000.	76	22731	No
22	GOM_NL__2PRFIN20060706_015752_000000412049_00132_22731_9718.N1	06-JUL-2006 01:57:52	Twilight_and_stray	40.500	40	The Sco	1.8590	7100.0	81	22731	No
23	GOM_NL__2PRFIN20060706_015932_000000402049_00132_22731_9719.N1	06-JUL-2006 01:59:32	Twilight_and_stray	39.500	25	35Lam Sco	1.6200	28000.	79	22731	No
24	GOM_NL__2PRFIN20060706_020058_000000492049_00132_22731_9720.N1	06-JUL-2006 02:00:58	Bright	48.500	116	19Del Sgr	2.7000	4100.0	97	22731	No
25	GOM_NL__2PRFIN20060706_020541_000000372049_00132_22731_9721.N1	06-JUL-2006 02:05:41	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	22731	No
26	GOM_NL__2PRFIN20060706_021110_000000362049_00132_22731_9722.N1	06-JUL-2006 02:11:10	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	22731	No
27	GOM_NL__2PRFIN20060706_021328_000000362049_00132_22731_9723.N1	06-JUL-2006 02:13:28	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	22731	No
28	GOM_NL__2PRFIN20060706_021623_000000362049_00132_22731_9724.N1	06-JUL-2006 02:16:23	Bright	36.000	127	27Bet Her	2.7810	4700.0	72	22731	No
29	GOM_NL__2PRFIN20060706_021903_000000372049_00132_22731_9725.N1	06-JUL-2006 02:19:03	Bright	36.500	133	40Zet Her	2.8070	6000.0	73	22731	No
30	GOM_NL__2PRFIN20060706_022448_000000372049_00132_22731_9726.N1	06-JUL-2006 02:24:48	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	22731	No
31	GOM_NL__2PRFIN20060706_022724_000000342049_00132_22731_9727.N1	06-JUL-2006 02:27:24	Bright	34.000	119	14Eta Dra	2.7270	4700.0	68	22731	No
32	GOM_NL__2PRFIN20060706_023130_000000522049_00132_22731_9728.N1	06-JUL-2006 02:31:30	Bright	52.000	60	7Bet UMi	2.0810	3950.0	104	22731	No
33	GOM_NL__2PRFIN20060706_023532_000000362049_00132_22731_9729.N1	06-JUL-2006 02:35:32	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	22731	No
34	GOM_NL__2PRFIN20060706_024952_000000352049_00132_22731_9730.N1	06-JUL-2006 02:49:52	Bright	34.500	149	45Eps Per	2.8880	30000.	69	22731	No
35	GOM_NL__2PRFIN20060706_030509_000000422049_00132_22731_9731.N1	06-JUL-2006 03:05:09	Dark	41.500	165	34Gam Eri	2.9500	3200.0	83	22731	No
36	GOM_NL__2PRFIN20060706_031345_000000402049_00132_22731_9732.N1	06-JUL-2006 03:13:45	Dark	39.500	157	The1Eri	2.9060	9300.0	79	22731	No
37	GOM_NL__2PRFIN20060706_031956_000000522049_00133_22732_9714.N1	06-JUL-2006 03:19:56	Dark	51.500	9	Alp Eri	0.45300	24000.	103	22732	No
38	GOM_NL__2PRFIN20060706_032416_000000372049_00133_22732_9715.N1	06-JUL-2006 03:24:16	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	22732	No
39	GOM_NL__2PRFIN20060706_033142_000000412049_00133_22732_9716.N1	06-JUL-2006 03:31:42	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	22732	No
40	GOM_NL__2PRFIN20060706_033639_000000372049_00133_22732_9717.N1	06-JUL-2006 03:36:39	Twilight_and_stray	37.000	147	Alp Ara	2.8770	26000.	74	22732	No
41	GOM_NL__2PRFIN20060706_033828_000000412049_00133_22732_9718.N1	06-JUL-2006 03:38:28	Twilight_and_stray	40.500	40	The Sco	1.8590	7100.0	81	22732	No
42	GOM_NL__2PRFIN20060706_034008_000000412049_00133_22732_9719.N1	06-JUL-2006 03:40:08	Twilight_and_stray	41.000	25	35Lam Sco	1.6200	28000.	82	22732	No







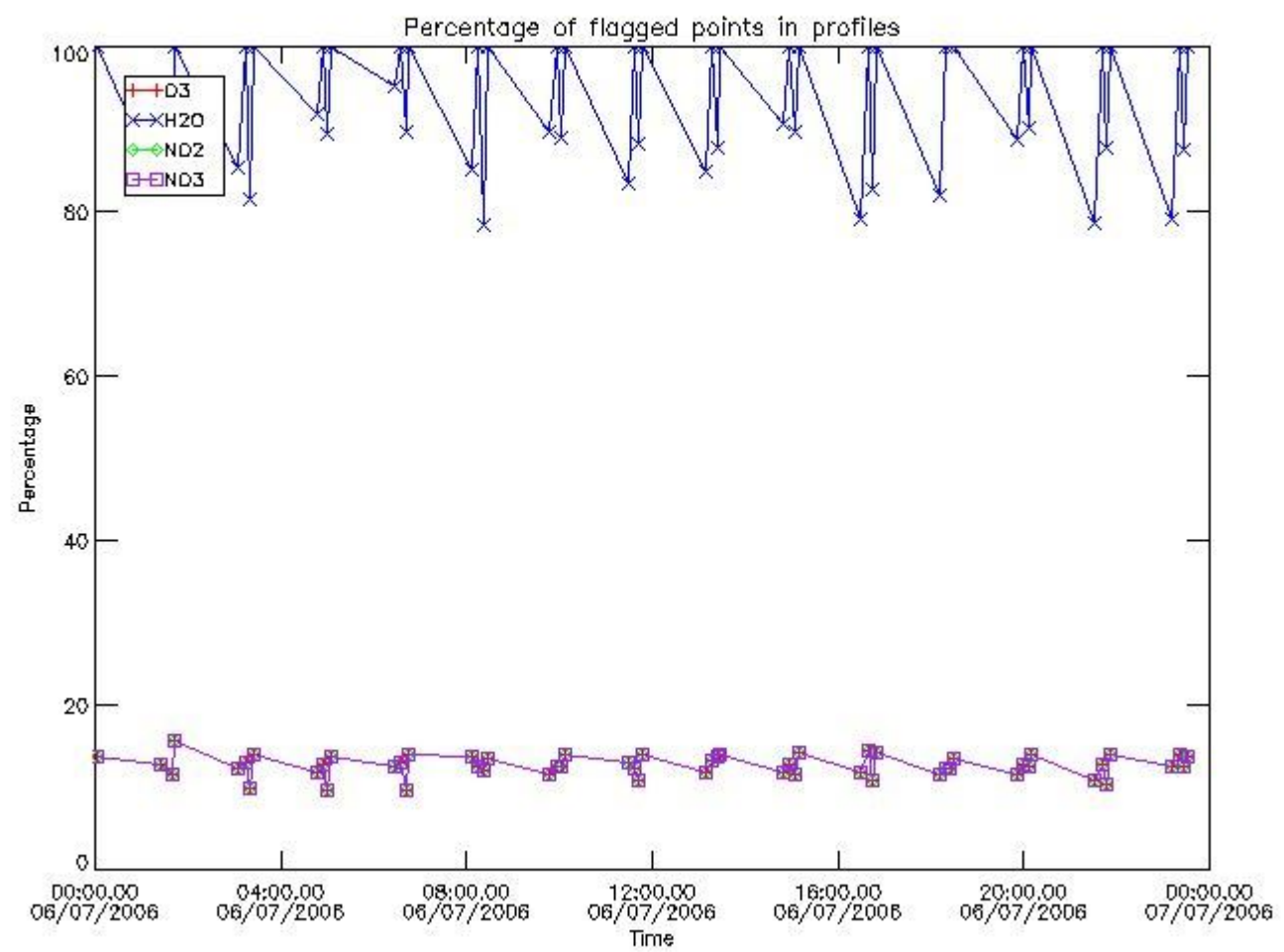
220	GOM_NL__2PRFIN20060706_195950_000000402049_00142_22741_9751.N1	06-JUL-2006 19:59:50	Dark	40.000	157	The1Eri	2.9060	9300.0	80	22741	No
221	GOM_NL__2PRFIN20060706_200601_000000412049_00143_22742_9734.N1	06-JUL-2006 20:06:01	Dark	40.500	9	Alp Eri	0.45300	24000.	81	22742	No
222	GOM_NL__2PRFIN20060706_201018_000000372049_00143_22742_9735.N1	06-JUL-2006 20:10:18	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	22742	No
223	GOM_NL__2PRFIN20060706_201746_000000392049_00143_22742_9736.N1	06-JUL-2006 20:17:46	Straylight	39.000	45	Alp Pav	1.9400	26000.	78	22742	No
224	GOM_NL__2PRFIN20060706_202240_000000372049_00143_22742_9737.N1	06-JUL-2006 20:22:40	Twi_and_stray	36.500	147	Alp Ara	2.8770	26000.	73	22742	No
225	GOM_NL__2PRFIN20060706_202430_000000402049_00143_22742_9738.N1	06-JUL-2006 20:24:30	Twi_and_stray	40.000	40	The Sco	1.8590	7100.0	80	22742	No
226	GOM_NL__2PRFIN20060706_202609_000000412049_00143_22742_9739.N1	06-JUL-2006 20:26:09	Twi_and_stray	41.000	25	35Lam Sco	1.6200	28000.	82	22742	No
227	GOM_NL__2PRFIN20060706_202736_000000432049_00143_22742_9740.N1	06-JUL-2006 20:27:36	Bright	43.000	116	19Del Sgr	2.7000	4100.0	86	22742	No
228	GOM_NL__2PRFIN20060706_203218_000000362049_00143_22742_9741.N1	06-JUL-2006 20:32:18	Bright	36.000	86	35Eta Oph	2.4300	10200.	72	22742	No
229	GOM_NL__2PRFIN20060706_203746_000000352049_00143_22742_9742.N1	06-JUL-2006 20:37:46	Bright	35.000	126	60Bet Oph	2.7700	4250.0	70	22742	No
230	GOM_NL__2PRFIN20060706_204004_000000352049_00143_22742_9743.N1	06-JUL-2006 20:40:04	Bright	35.000	59	55Alp Oph	2.0800	8900.0	70	22742	No
231	GOM_NL__2PRFIN20060706_204301_000000362049_00143_22742_9744.N1	06-JUL-2006 20:43:01	Bright	36.000	127	27Bet Her	2.7810	4700.0	72	22742	No
232	GOM_NL__2PRFIN20060706_204540_000000372049_00143_22742_9745.N1	06-JUL-2006 20:45:40	Bright	36.500	133	40Zet Her	2.8070	6000.0	73	22742	No
233	GOM_NL__2PRFIN20060706_205122_000000362049_00143_22742_9746.N1	06-JUL-2006 20:51:22	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	22742	No
234	GOM_NL__2PRFIN20060706_205400_000000362049_00143_22742_9747.N1	06-JUL-2006 20:54:00	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	22742	No
235	GOM_NL__2PRFIN20060706_205807_000000352049_00143_22742_9748.N1	06-JUL-2006 20:58:07	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	22742	No
236	GOM_NL__2PRFIN20060706_210207_000000362049_00143_22742_9749.N1	06-JUL-2006 21:02:07	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	22742	No
237	GOM_NL__2PRFIN20060706_213149_000000472049_00143_22742_9750.N1	06-JUL-2006 21:31:49	Dark	47.000	165	34Gam Eri	2.9500	3200.0	94	22742	No
238	GOM_NL__2PRFIN20060706_214026_000000402049_00143_22742_9751.N1	06-JUL-2006 21:40:26	Dark	40.000	157	The1Eri	2.9060	9300.0	80	22742	No
239	GOM_NL__2PRFIN20060706_214637_000000492049_00144_22743_9734.N1	06-JUL-2006 21:46:37	Dark	49.000	9	Alp Eri	0.45300	24000.	98	22743	No
240	GOM_NL__2PRFIN20060706_215054_000000372049_00144_22743_9735.N1	06-JUL-2006 21:50:54	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	22743	No
241	GOM_NL__2PRFIN20060706_215823_000000402049_00144_22743_9736.N1	06-JUL-2006 21:58:23	Straylight	40.000	45	Alp Pav	1.9400	26000.	80	22743	No
242	GOM_NL__2PRFIN20060706_220316_000000392049_00144_22743_9737.N1	06-JUL-2006 22:03:16	Twi_and_stray	38.500	147	Alp Ara	2.8770	26000.	77	22743	No
243	GOM_NL__2PRFIN20060706_220506_000000422049_00144_22743_9738.N1	06-JUL-2006 22:05:06	Twi_and_stray	41.500	40	The Sco	1.8590	7100.0	83	22743	No
244	GOM_NL__2PRFIN20060706_220645_000000392049_00144_22743_9739.N1	06-JUL-2006 22:06:45	Twi_and_stray	39.000	25	35Lam Sco	1.6200	28000.	78	22743	No
245	GOM_NL__2PRFIN20060706_220812_000000462049_00144_22743_9740.N1	06-JUL-2006 22:08:12	Bright	46.000	116	19Del Sgr	2.7000	4100.0	92	22743	No
246	GOM_NL__2PRFIN20060706_221255_000000362049_00144_22743_9741.N1	06-JUL-2006 22:12:55	Bright	36.000	86	35Eta Oph	2.4300	10200.	72	22743	No
247	GOM_NL__2PRFIN20060706_221822_000000352049_00144_22743_9742.N1	06-JUL-2006 22:18:22	Bright	34.500	126	60Bet Oph	2.7700	4250.0	69	22743	No
248	GOM_NL__2PRFIN20060706_222040_000000352049_00144_22743_9743.N1	06-JUL-2006 22:20:40	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	22743	No
249	GOM_NL__2PRFIN20060706_222337_000000362049_00144_22743_9744.N1	06-JUL-2006 22:23:37	Bright	36.000	127	27Bet Her	2.7810	4700.0	72	22743	No
250	GOM_NL__2PRFIN20060706_222616_000000352049_00144_22743_9745.N1	06-JUL-2006 22:26:16	Bright	35.000	133	40Zet Her	2.8070	6000.0	70	22743	No
251	GOM_NL__2PRFIN20060706_223158_000000342049_00144_22743_9746.N1	06-JUL-2006 22:31:58	Bright	33.500	130	23Bet Dra	2.7990	5800.0	67	22743	No
252	GOM_NL__2PRFIN20060706_223436_000000522049_00144_22743_9747.N1	06-JUL-2006 22:34:36	Bright	52.000	119	14Eta Dra	2.7270	4700.0	104	22743	No
253	GOM_NL__2PRFIN20060706_223843_000000332049_00144_22743_9748.N1	06-JUL-2006 22:38:43	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	22743	No
254	GOM_NL__2PRFIN20060706_224243_000000342049_00144_22743_9749.N1	06-JUL-2006 22:42:43	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	22743	No
255	GOM_NL__2PRFIN20060706_231225_000000412049_00144_22743_9750.N1	06-JUL-2006 23:12:25	Dark	40.500	165	34Gam Eri	2.9500	3200.0	81	22743	No
256	GOM_NL__2PRFIN20060706_232103_000000402049_00144_22743_9751.N1	06-JUL-2006 23:21:03	Dark	40.000	157	The1Eri	2.9060	9300.0	80	22743	No
257	GOM_NL__2PRFIN20060706_232714_000000412049_00145_22744_9734.N1	06-JUL-2006 23:27:14	Dark	40.500	9	Alp Eri	0.45300	24000.	81	22744	No
258	GOM_NL__2PRFIN20060706_233130_000000372049_00145_22744_9735.N1	06-JUL-2006 23:31:30	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	22744	No
259	GOM_NL__2PRFIN20060706_233859_000000422049_00145_22744_9736.N1	06-JUL-2006 23:38:59	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	22744	No
260	GOM_NL__2PRFIN20060706_234352_000000382049_00145_22744_9737.N1	06-JUL-2006 23:43:52	Twi_and_stray	38.000	147	Alp Ara	2.8770	26000.	76	22744	No
261	GOM_NL__2PRFIN20060706_234542_000000412049_00145_22744_9738.N1	06-JUL-2006 23:45:42	Twi_and_stray	41.000	40	The Sco	1.8590	7100.0	82	22744	No
262	GOM_NL__2PRFIN20060706_234721_000000392049_00145_22744_9739.N1	06-JUL-2006 23:47:21	Twi_and_stray	39.000	25	35Lam Sco	1.6200	28000.	78	22744	No
263	GOM_NL__2PRFIN20060706_234848_000000512049_00145_22744_9740.N1	06-JUL-2006 23:48:48	Bright	51.000	116	19Del Sgr	2.7000	4100.0	102	22744	No
264	GOM_NL__2PRFIN20060706_234959_000000402049_00145_22744_9741.N1	06-JUL-2006 23:49:59	Bright	39.500	137	22Lam Sgr	2.8240	4400.0	79	22744	No
265	GOM_NL__2PRFIN20060706_235331_000000362049_00145_22744_9742.N1	06-JUL-2006 23:53:31	Bright	36.000	86	35Eta Oph	2.4300	10200.	72	22744	No
266	GOM_NL__2PRFIN20060706_235858_000000362049_00145_22744_9743.N1	06-JUL-2006 23:58:58	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	22744	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.

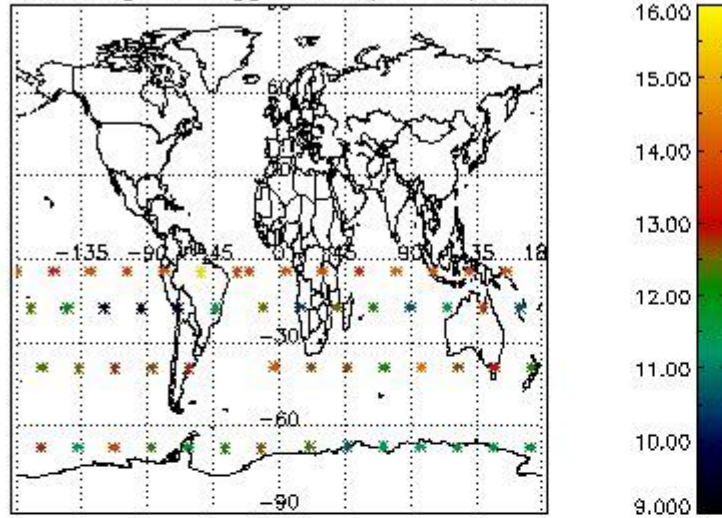
#### 3.1 Plot quality information per product (time dependant)



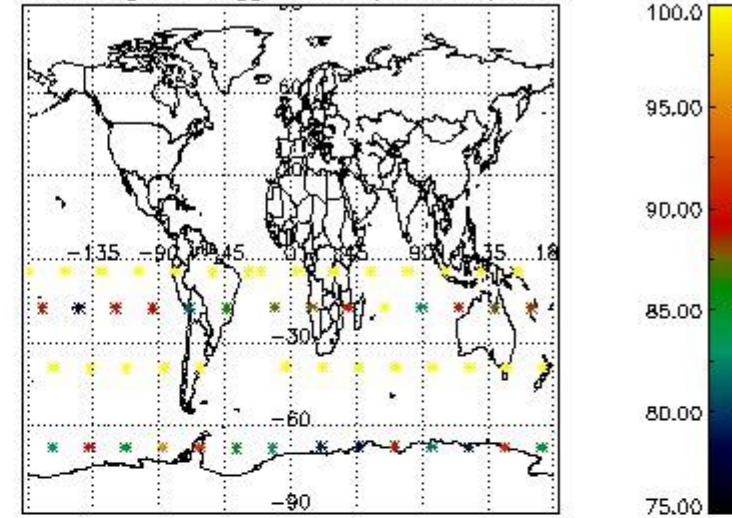


*3.2 Plot quality information per product (world map)*

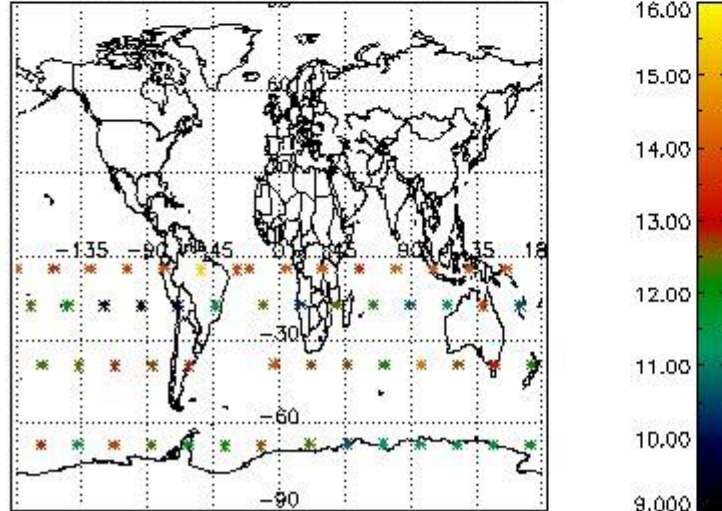
Percentage of flagged data per O3 profile



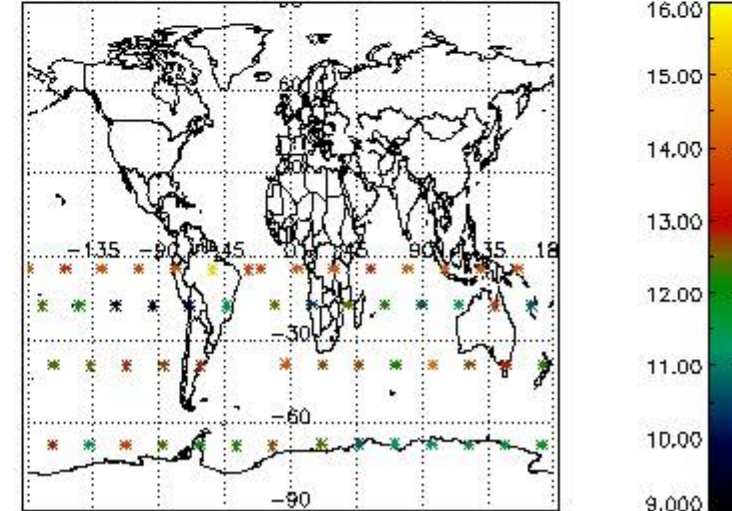
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

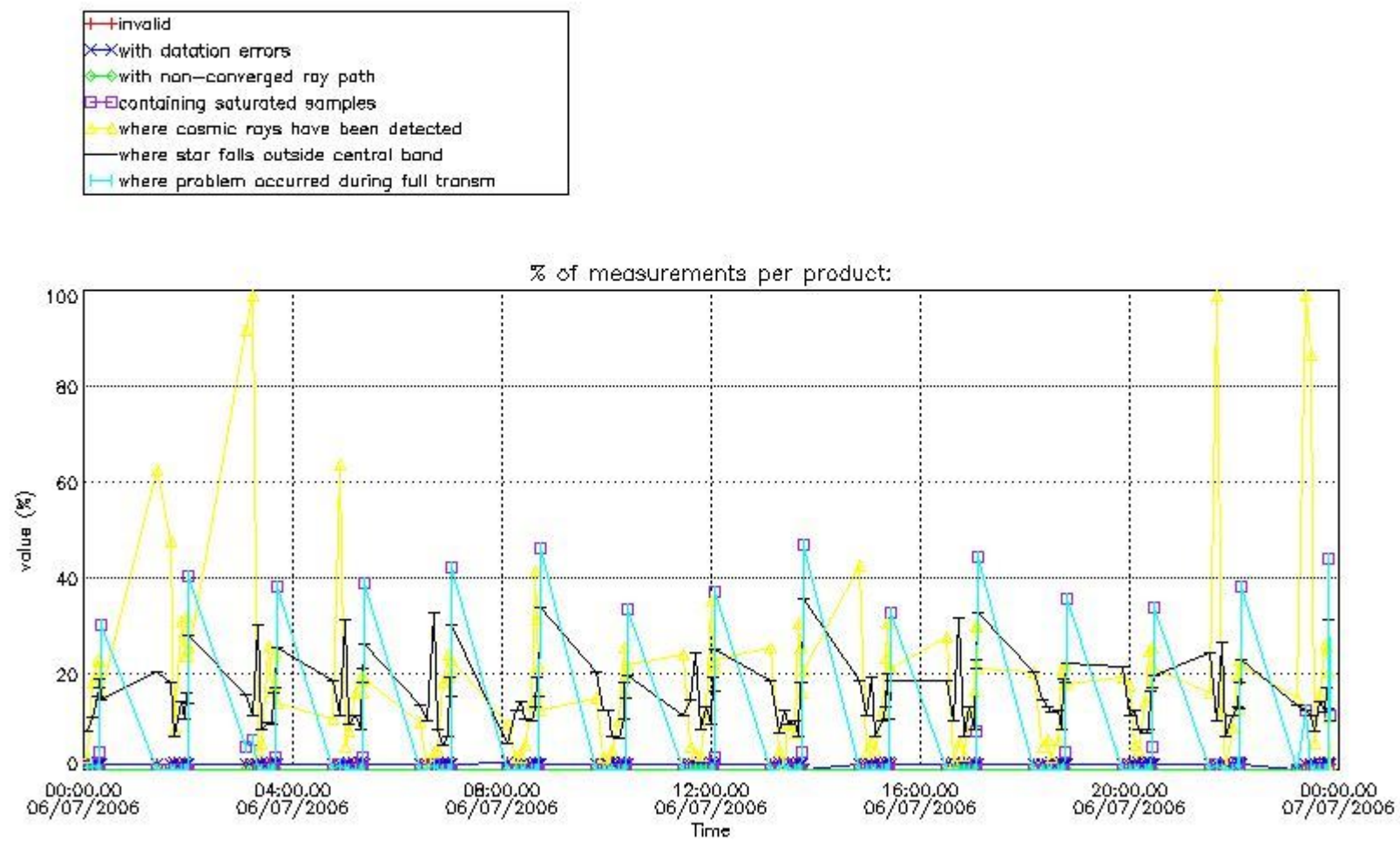


#### 4. Level 1 quality information per product

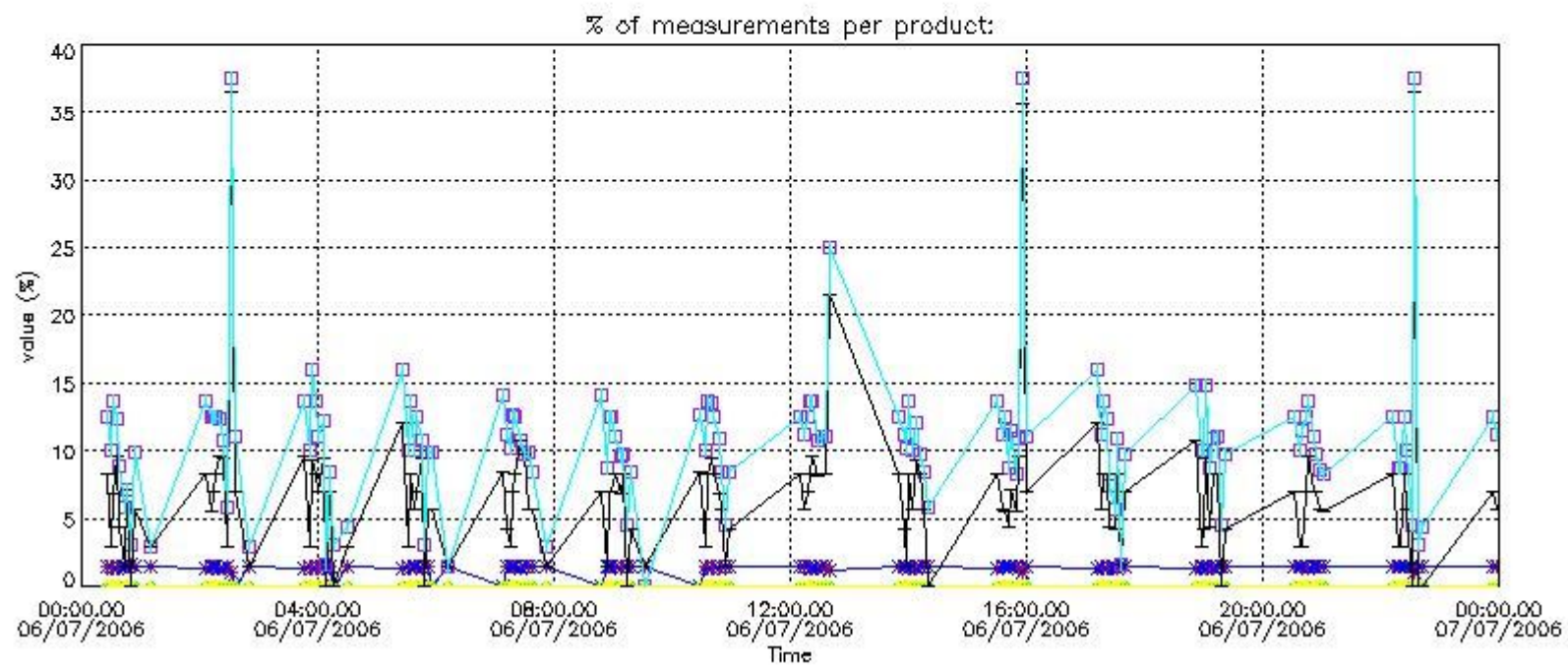
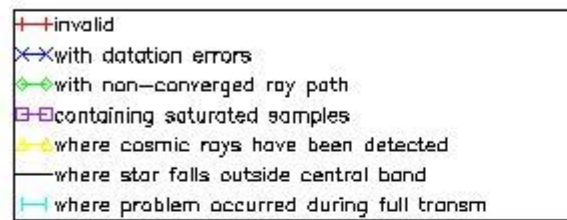
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

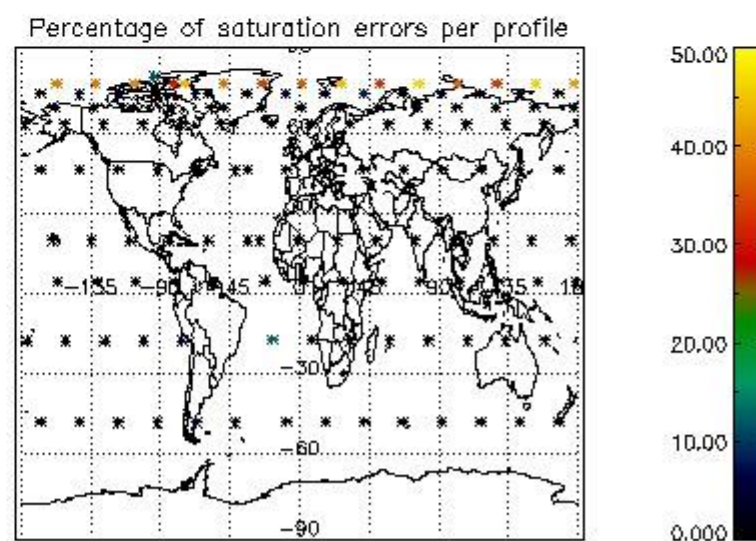
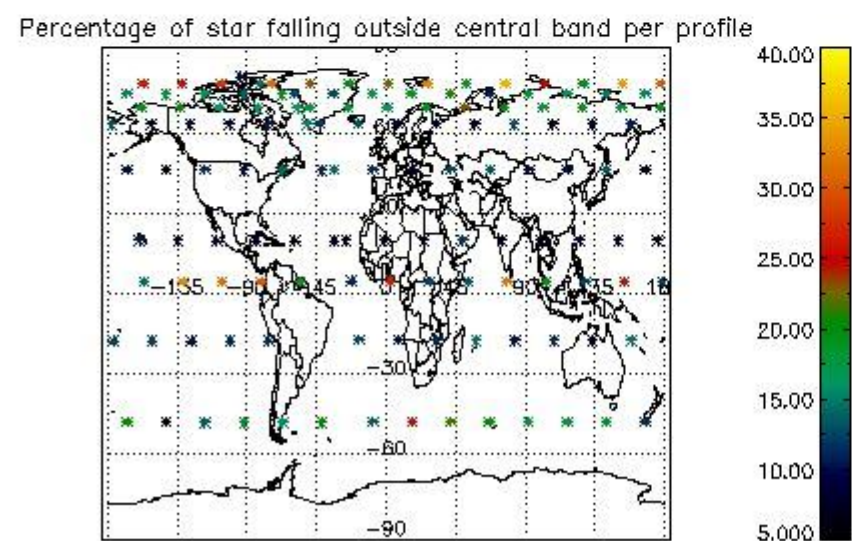
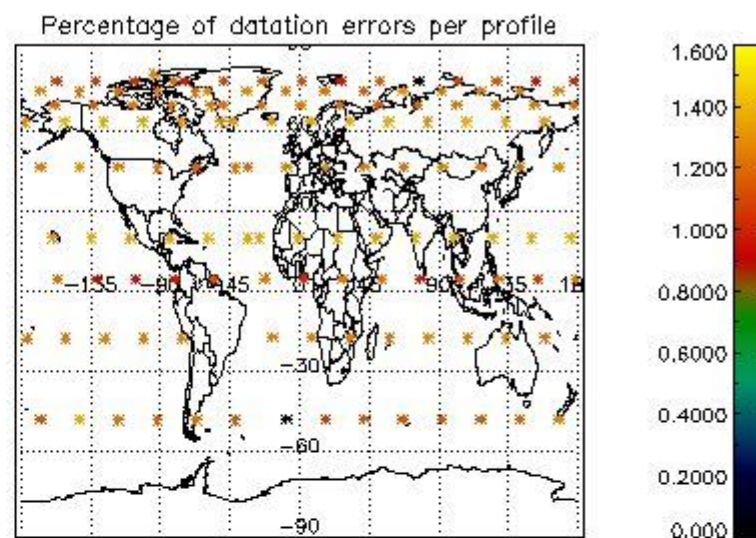
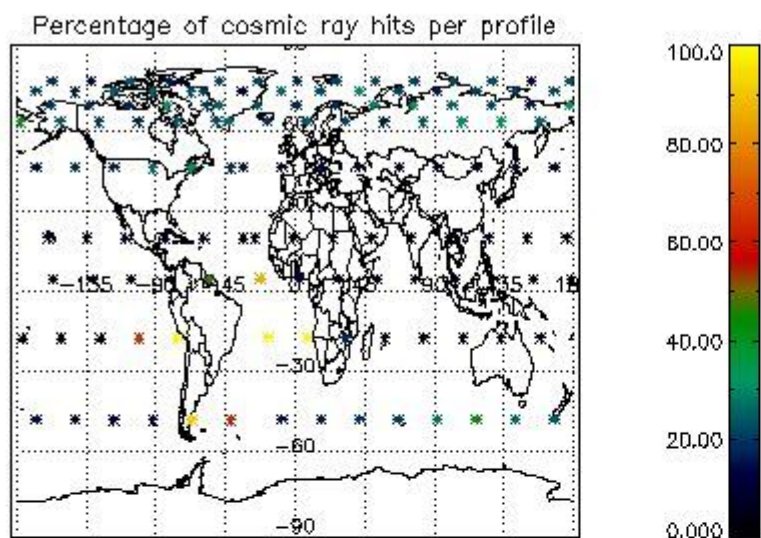


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

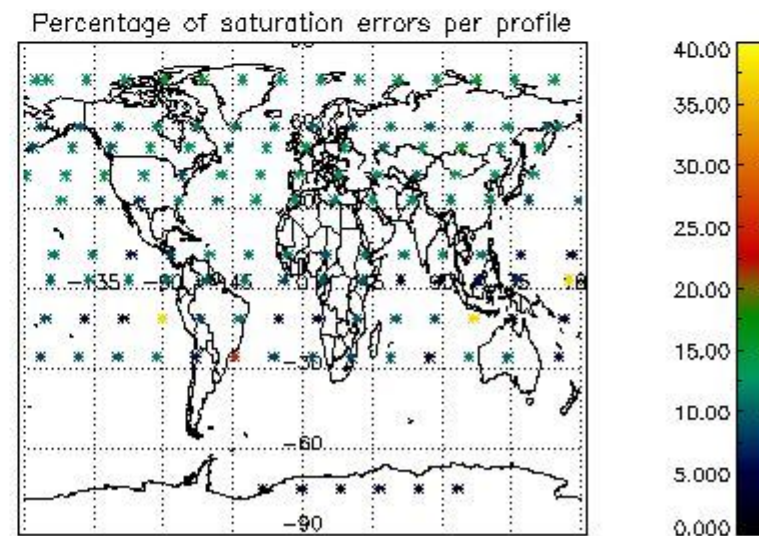
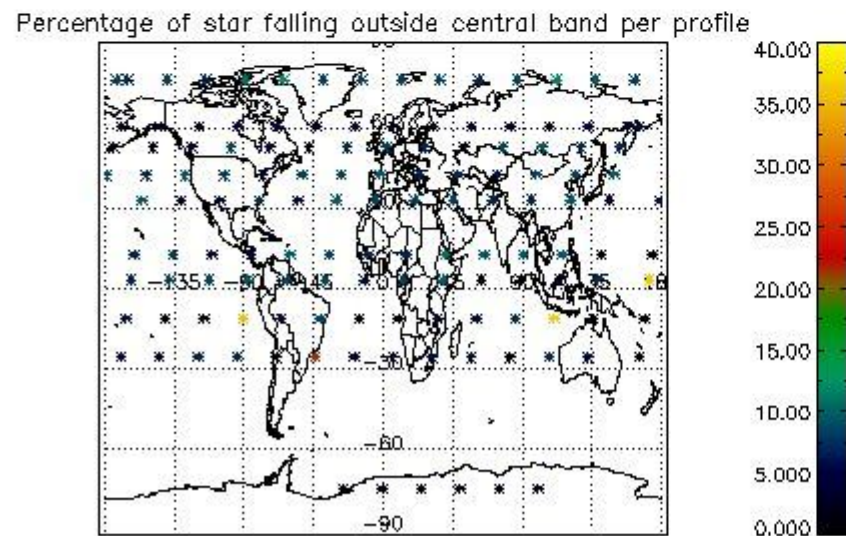
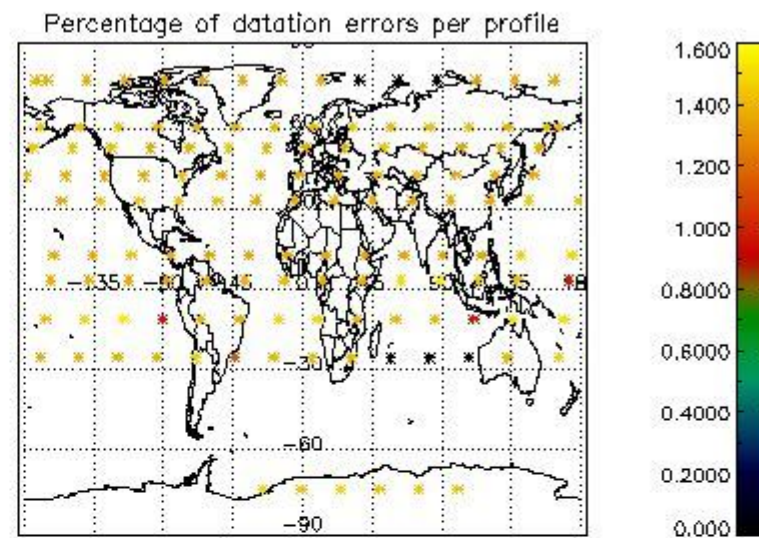
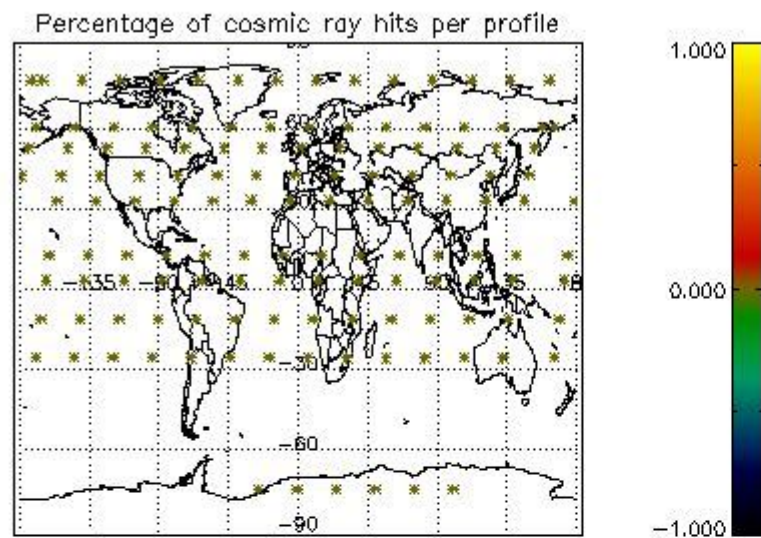


*4.2 Plot quality information per product coming from level 1b processing (world map)*

*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

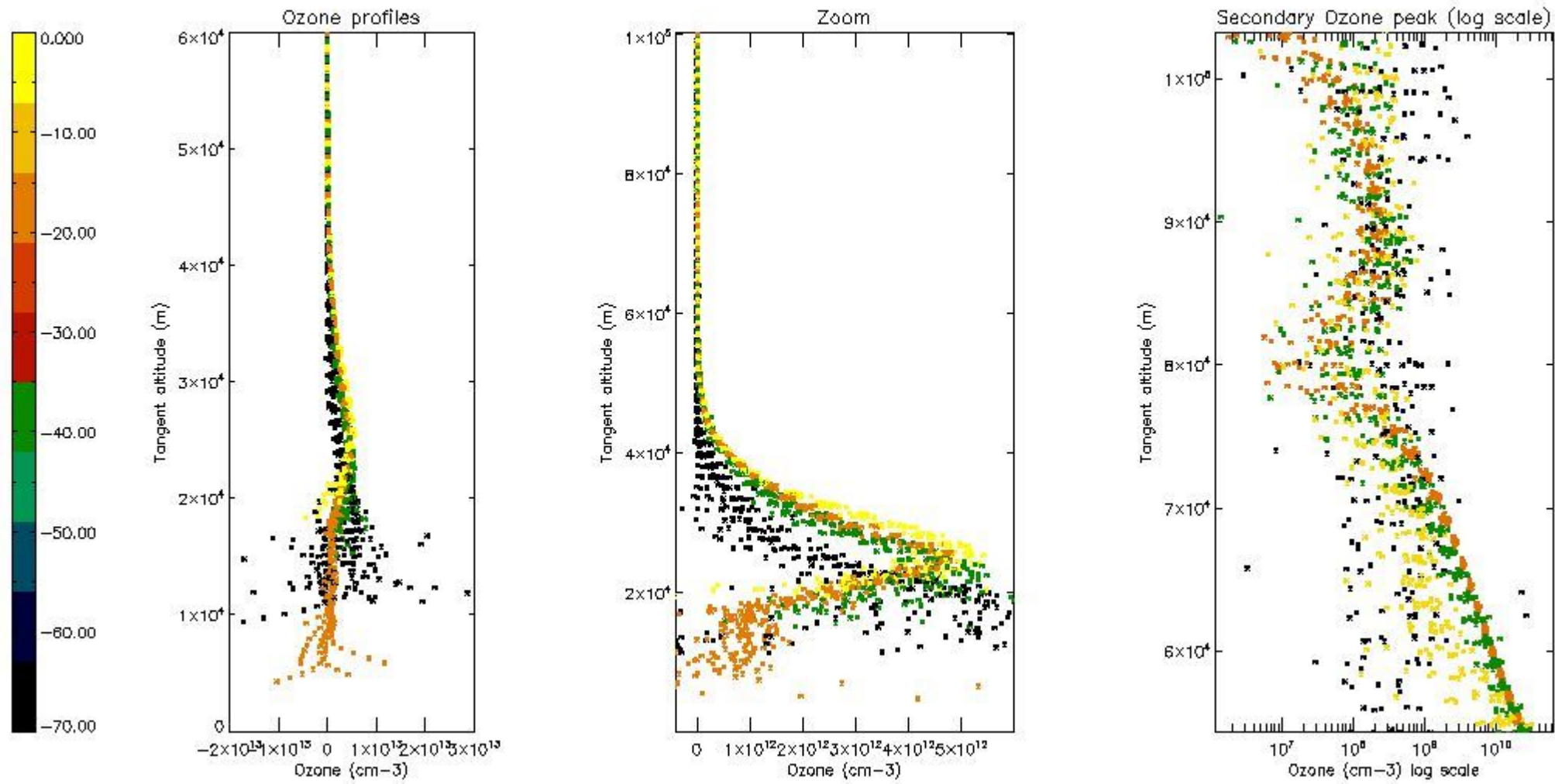
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	23
STD < 20	10

STD < 10	7
STD < 5	4

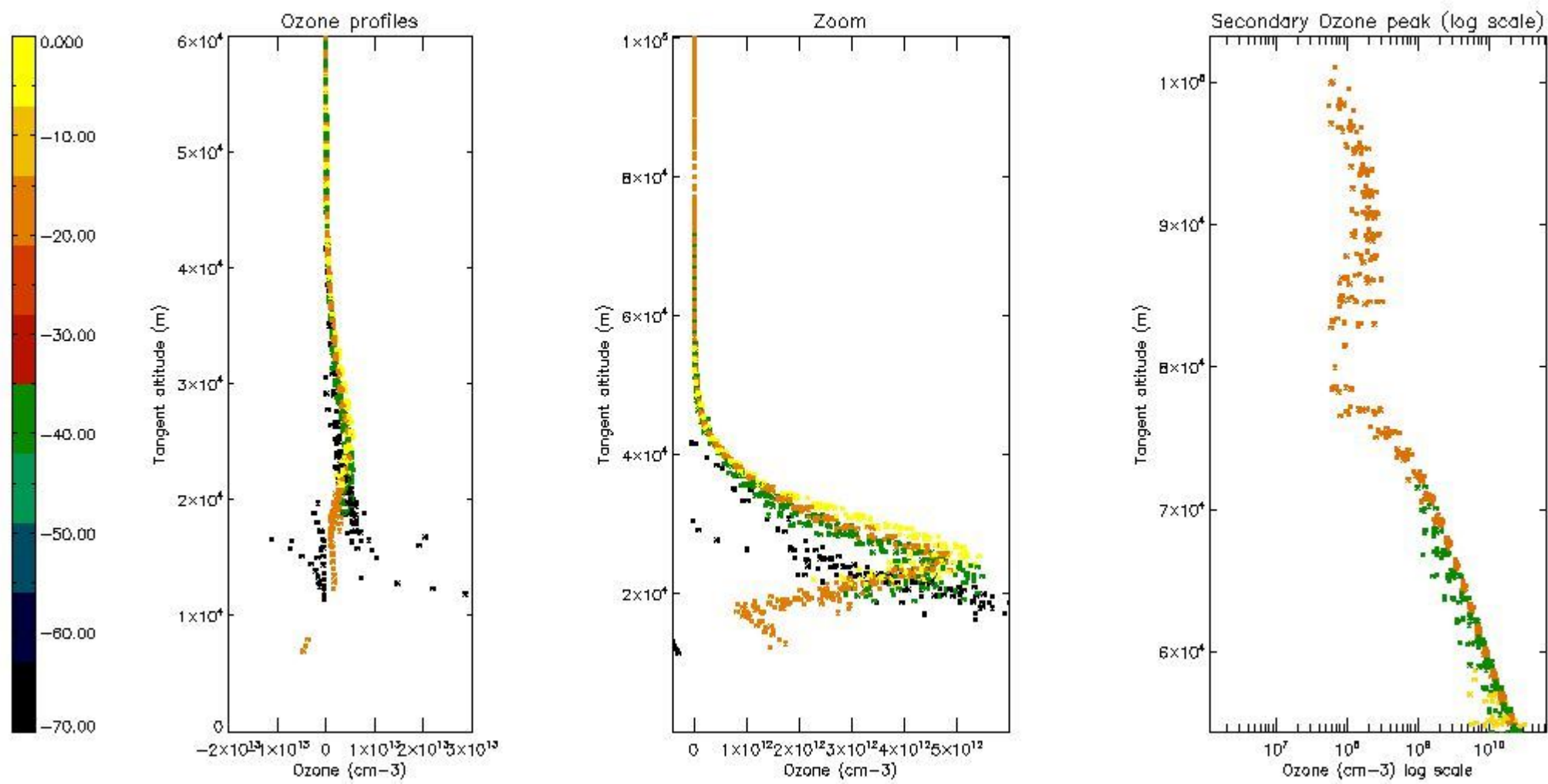
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

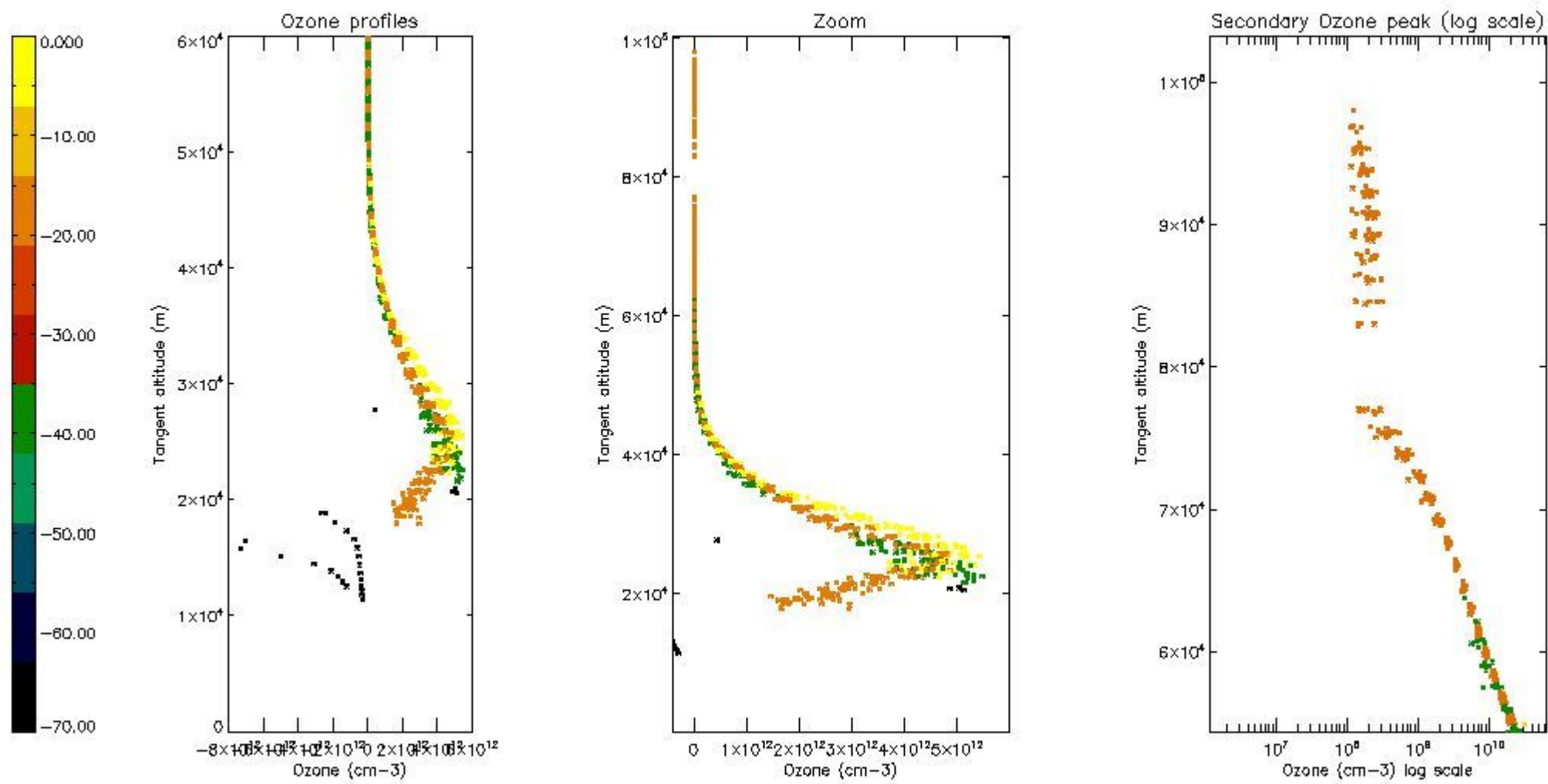
The colorbar represents the latitude.



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

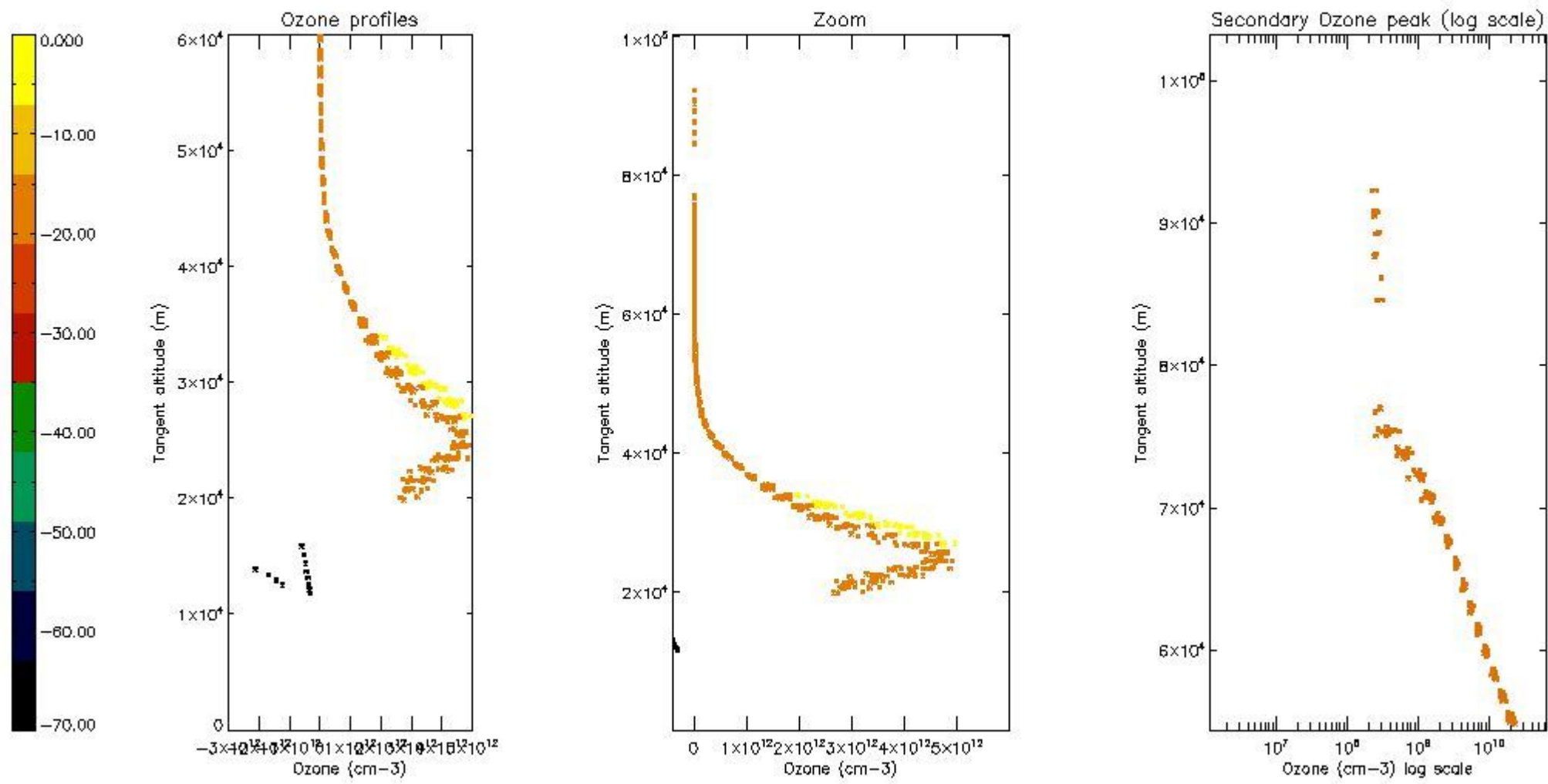
The colorbar represents the latitude.





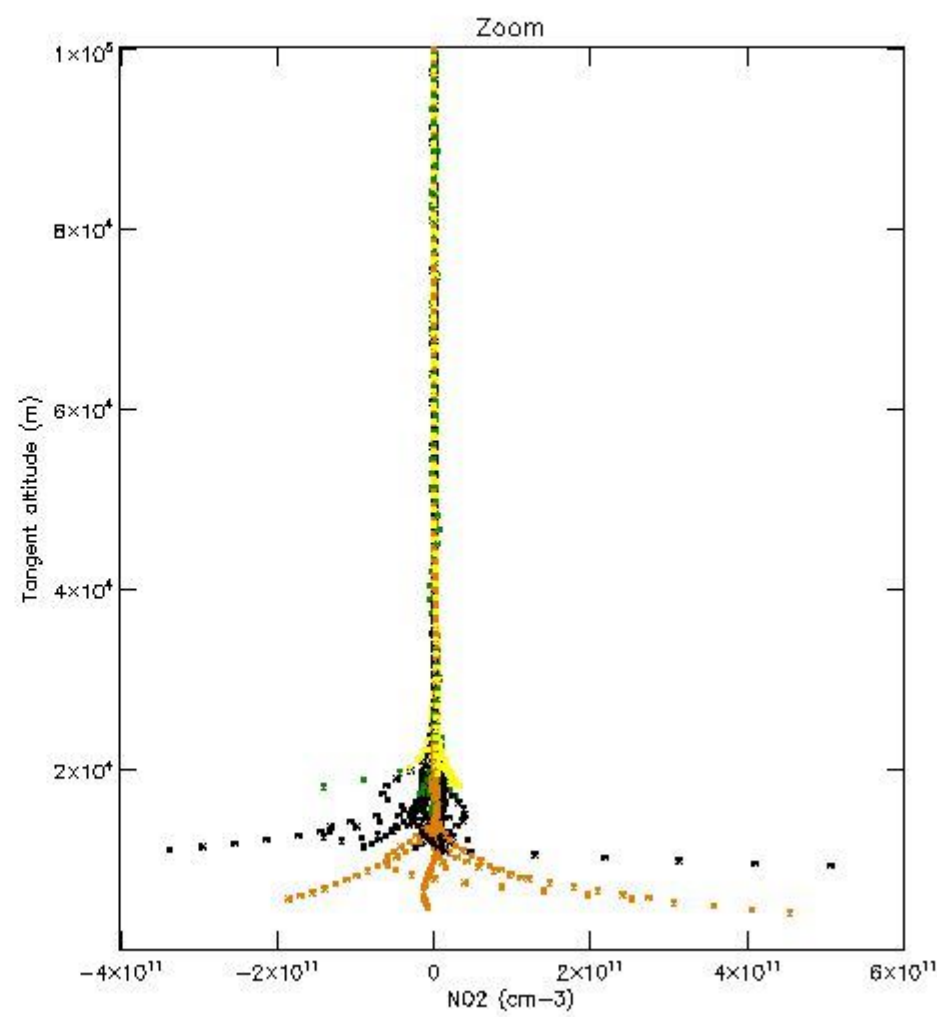
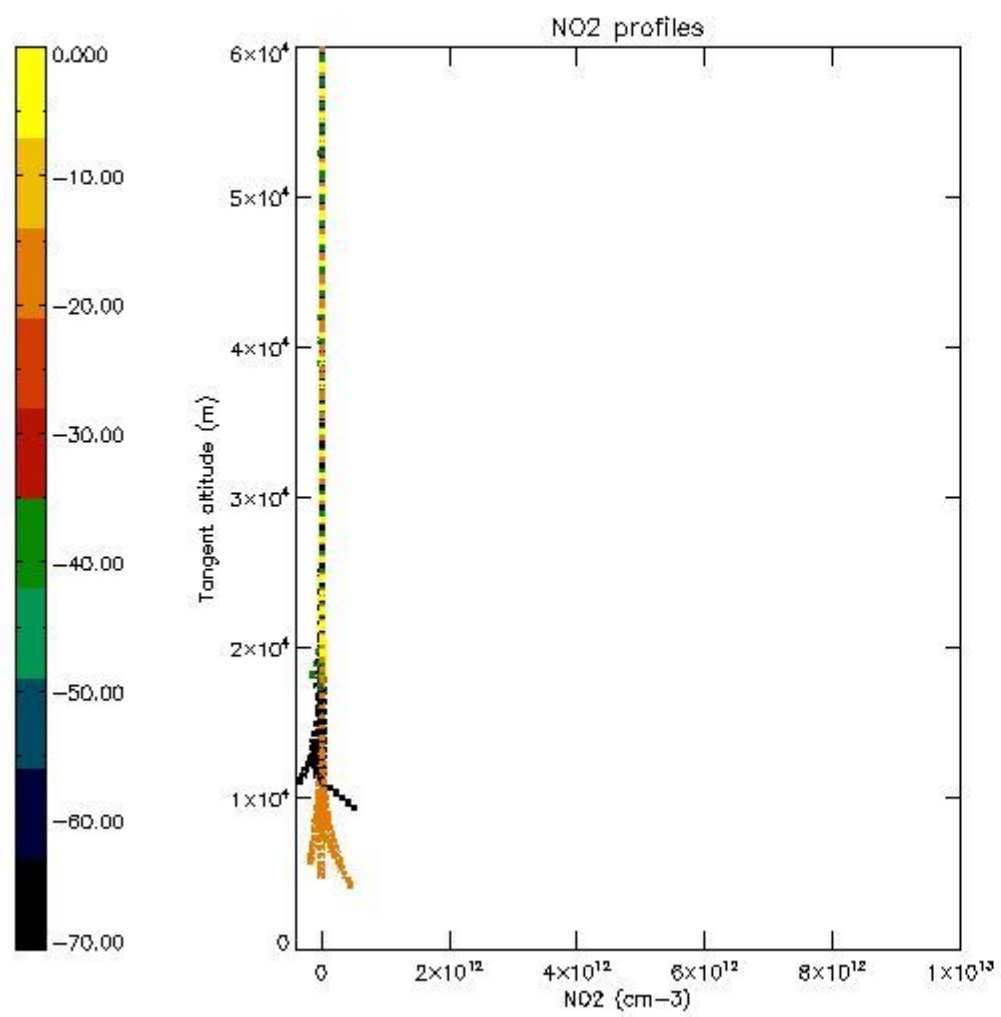
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



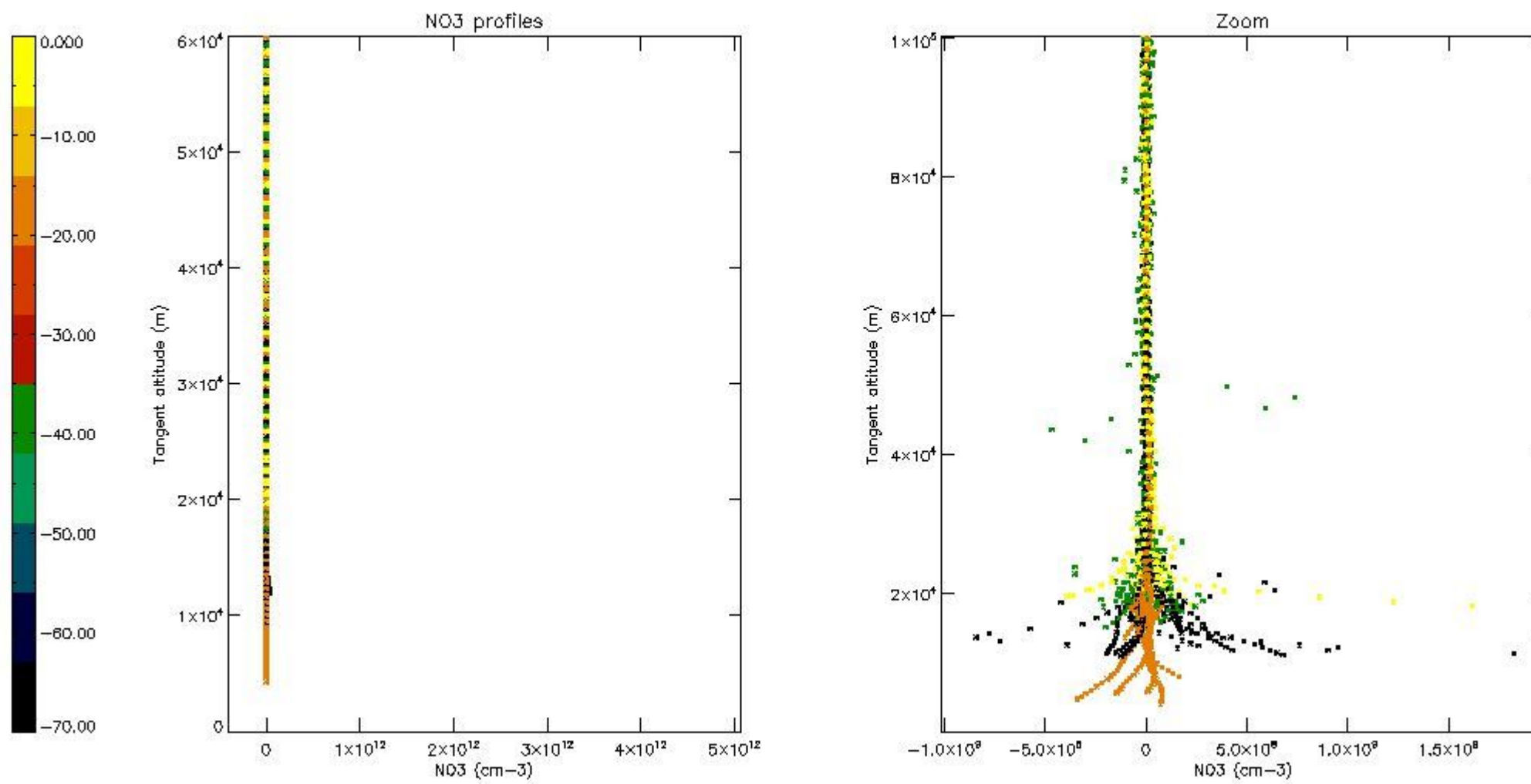
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

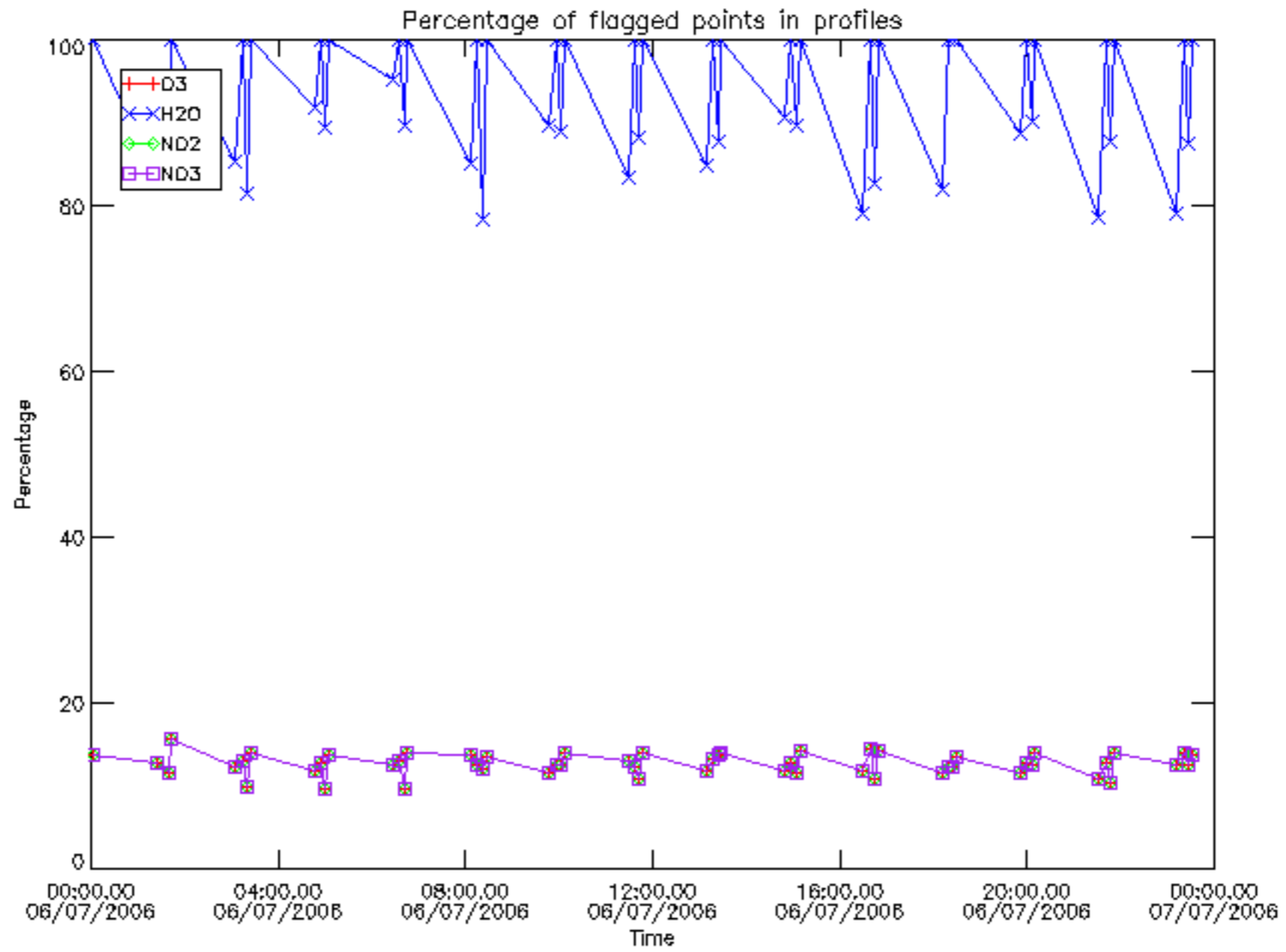
The colorbar represents the latitude.



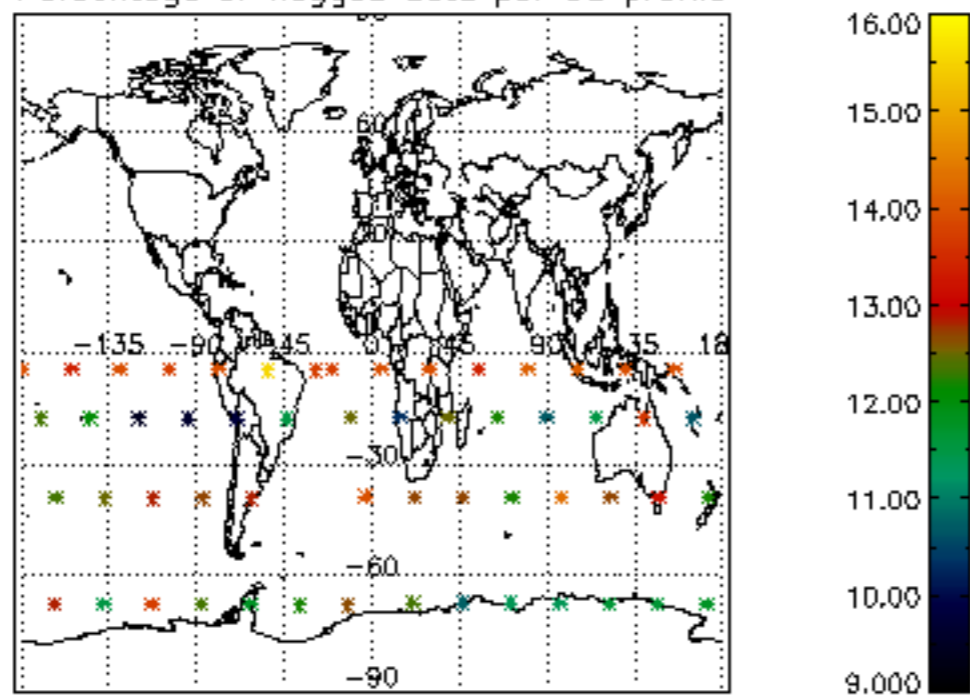
## 6. Auxiliary Data Files used for the production reported in section 2

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

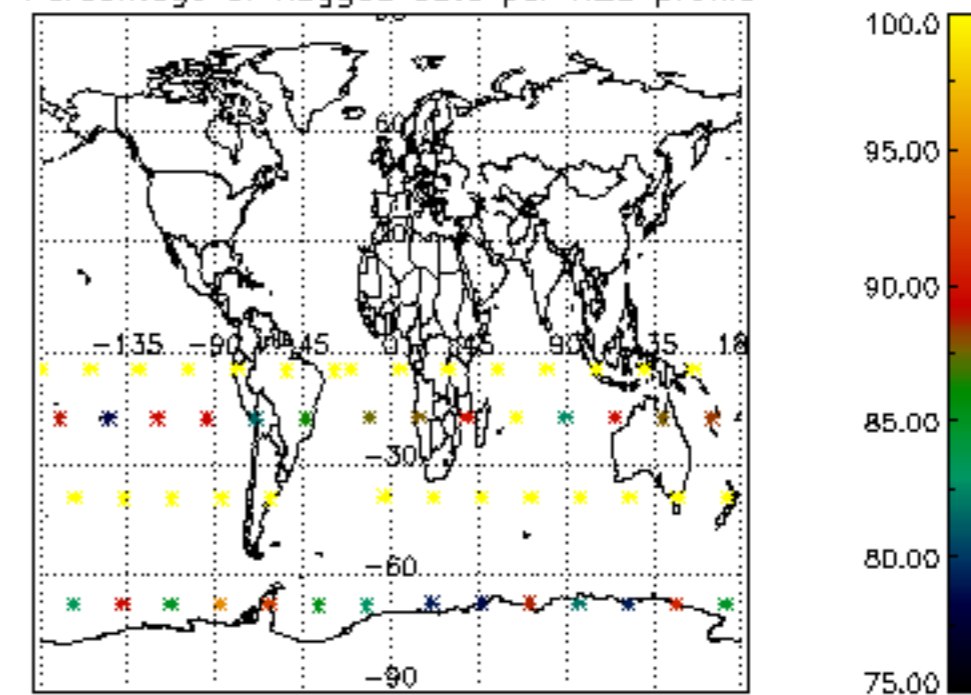
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	06-JUL-2006 00:03:03
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	06-JUL-2006 00:03:03
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	06-JUL-2006 00:03:03



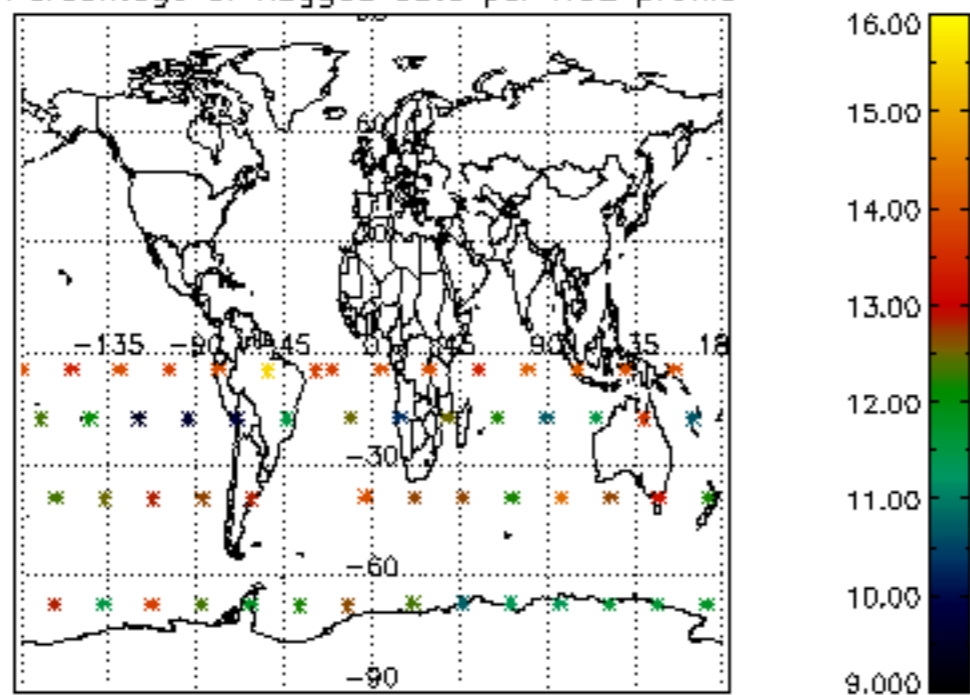
Percentage of flagged data per D3 profile



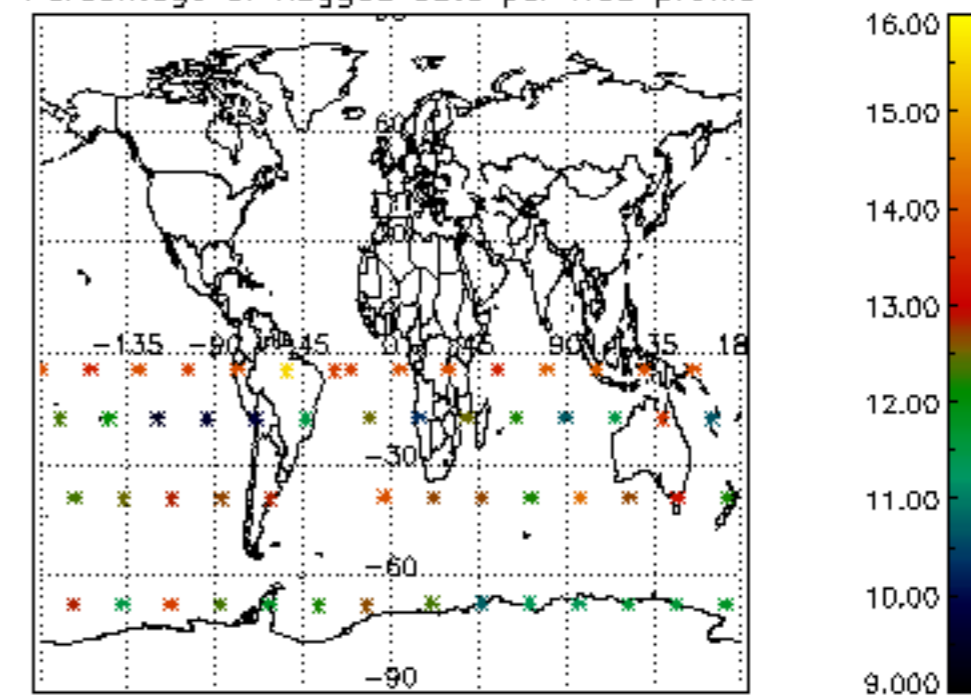
Percentage of flagged data per H2O profile

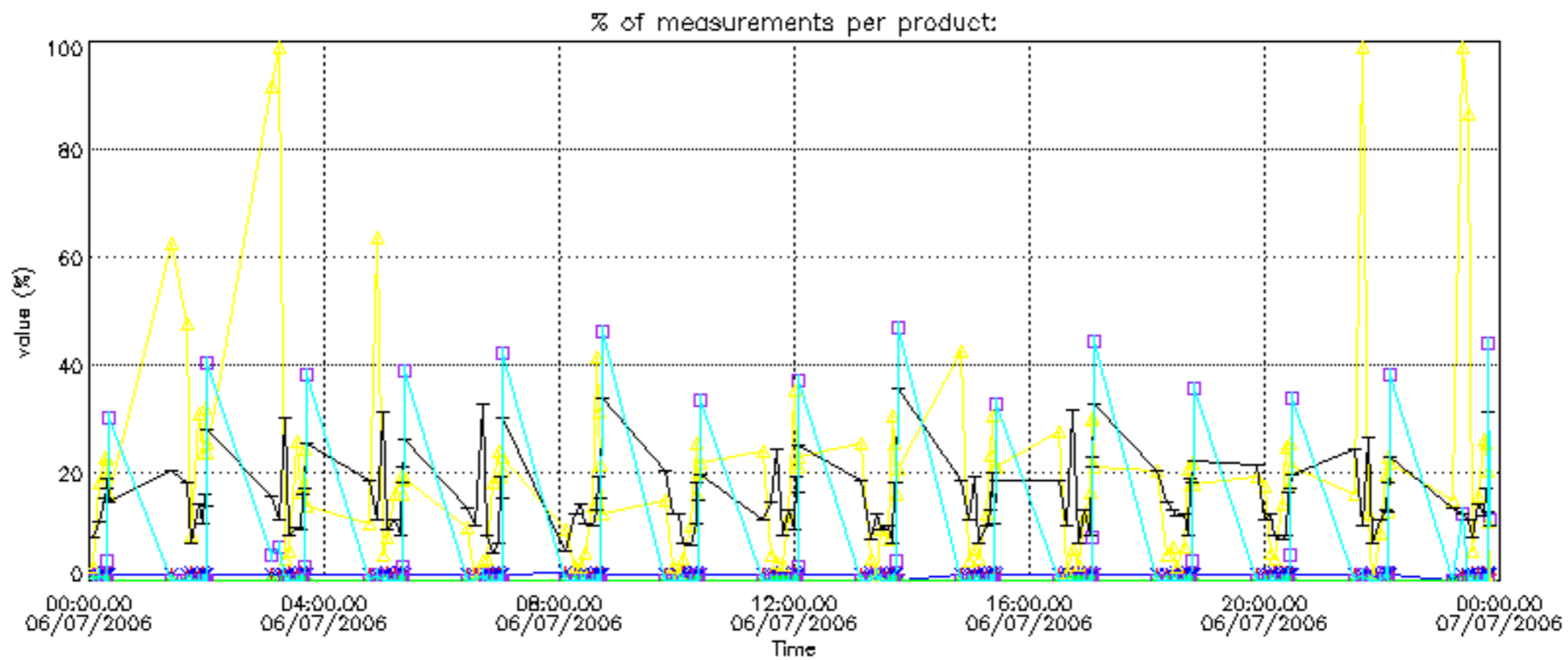


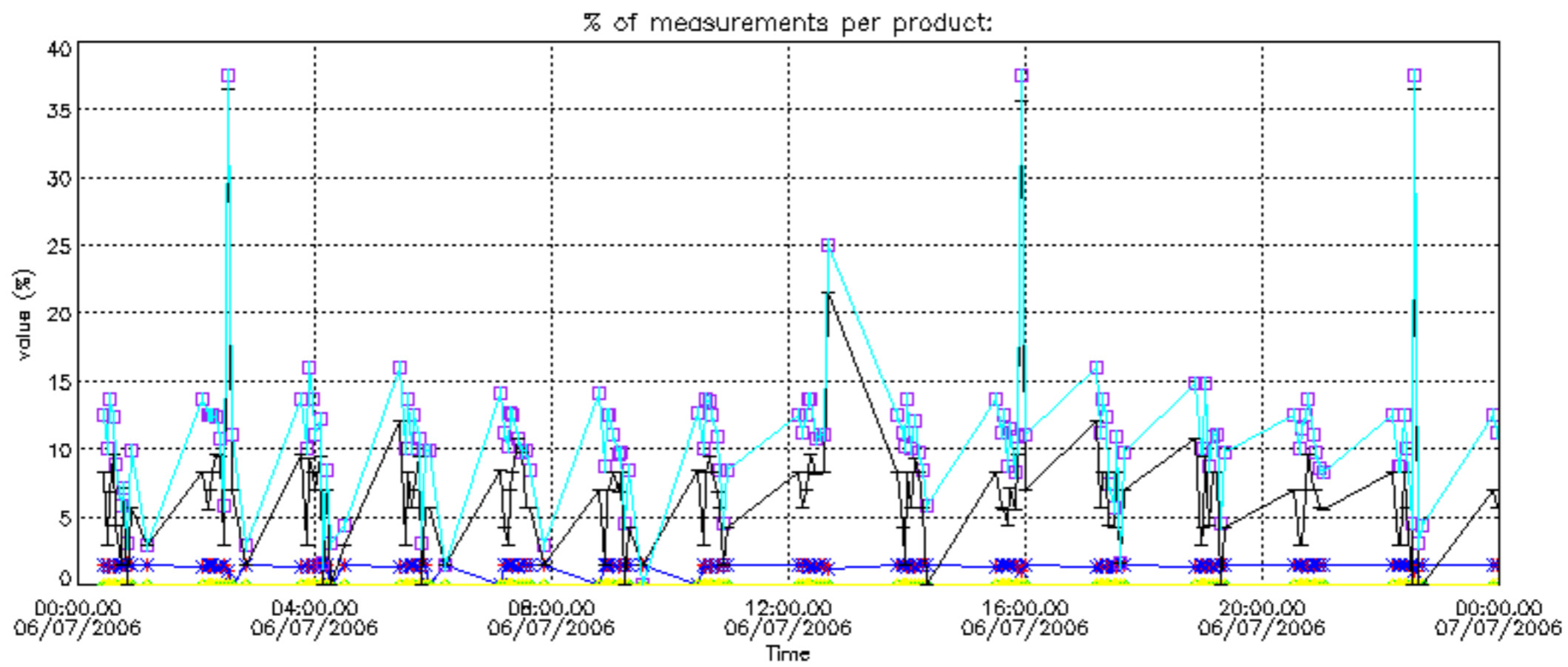
Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

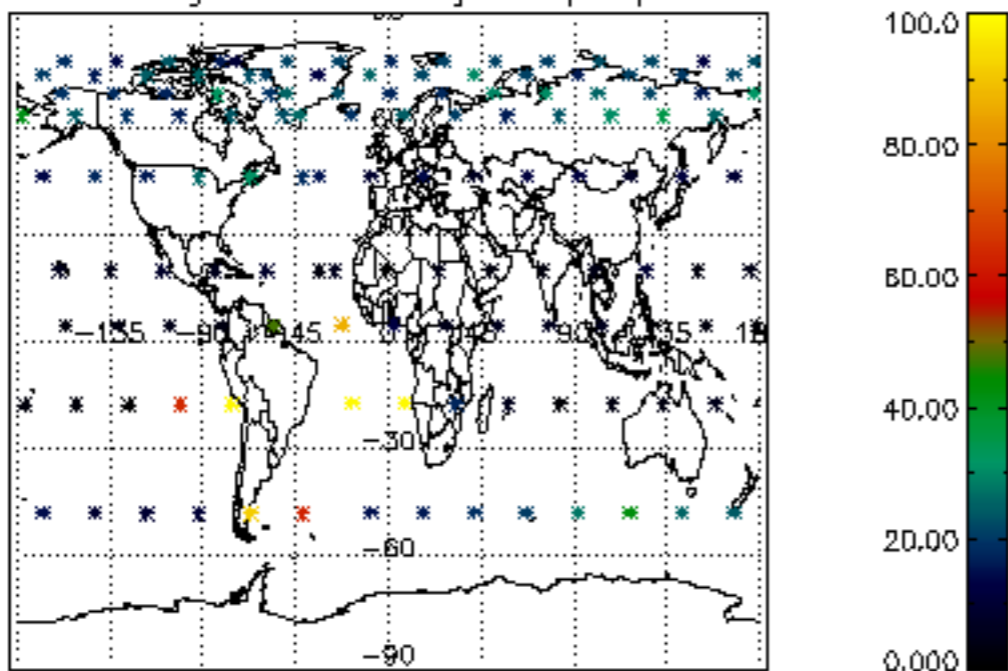




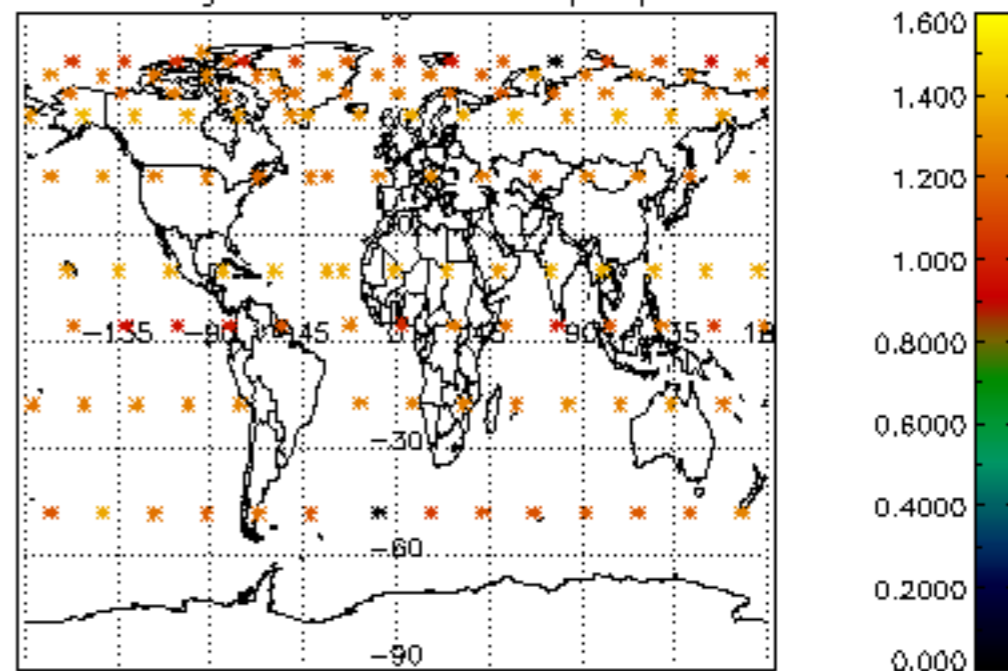




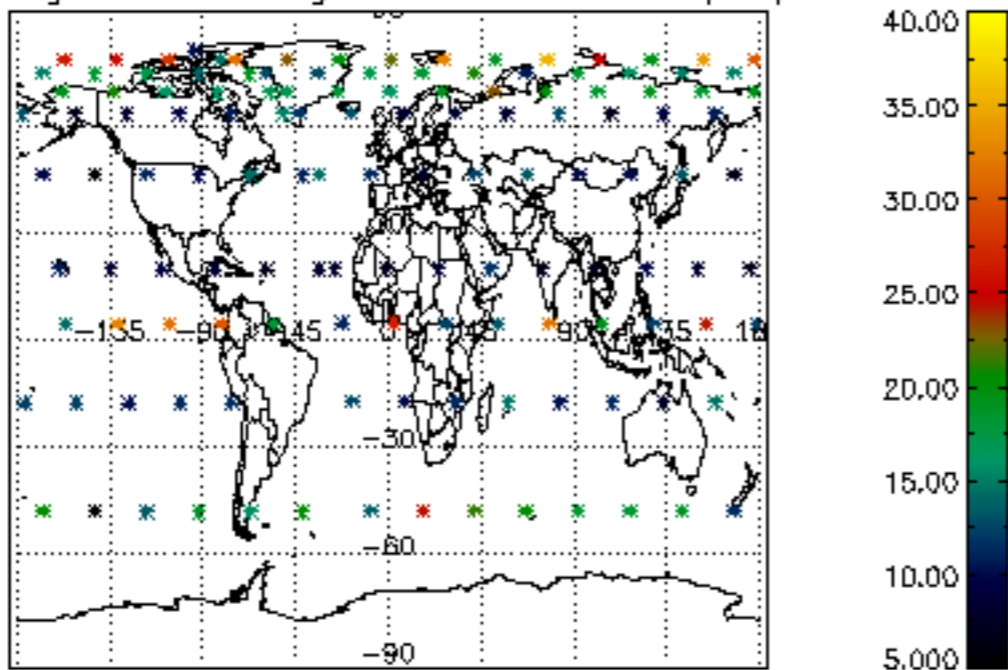
Percentage of cosmic ray hits per profile



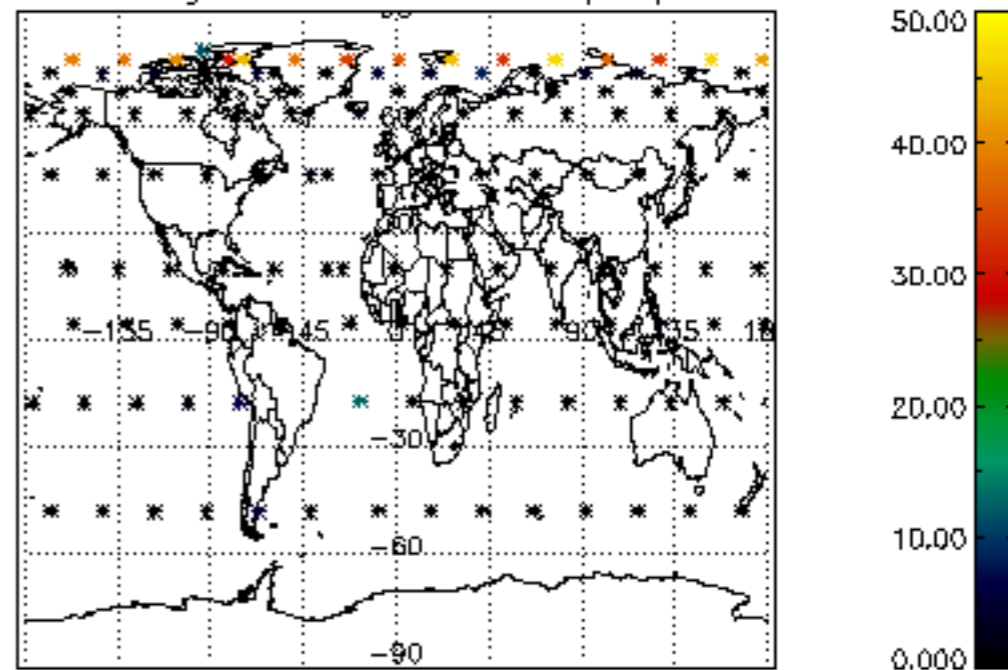
Percentage of datation errors per profile



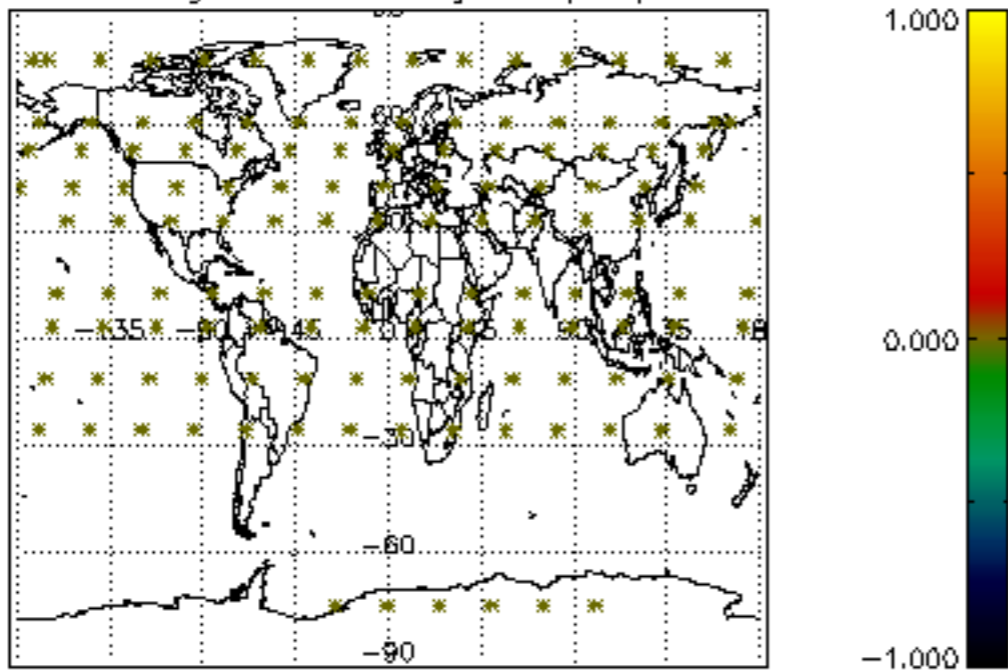
Percentage of star falling outside central band per profile



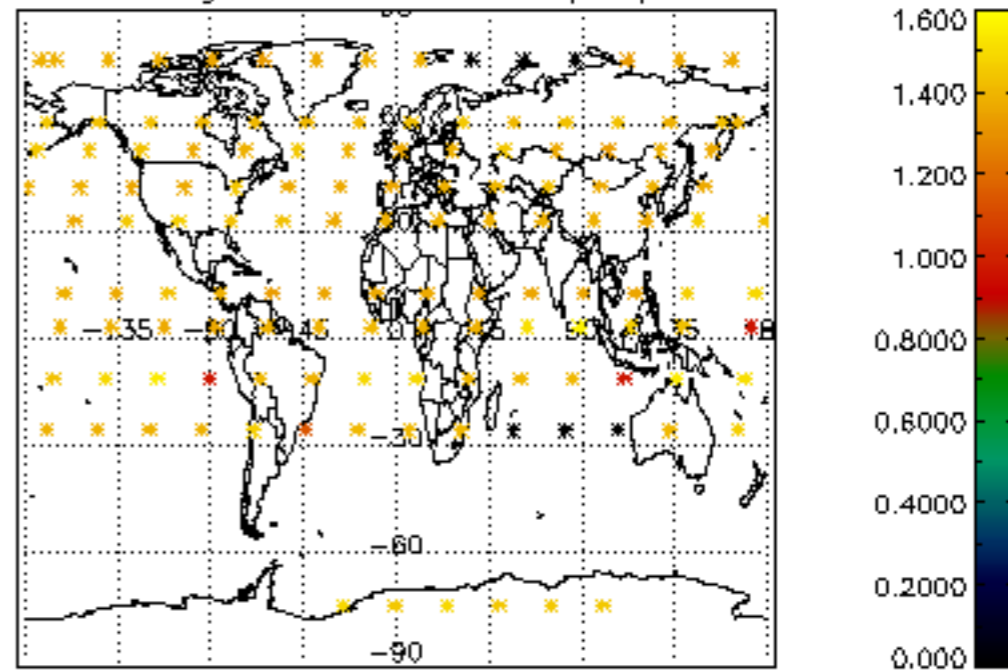
Percentage of saturation errors per profile



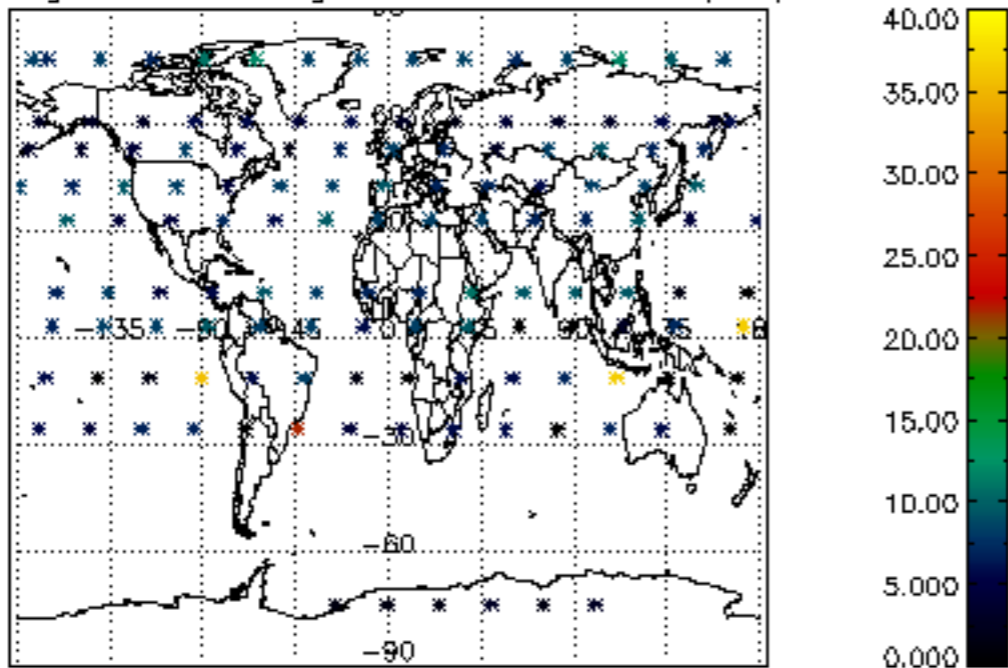
Percentage of cosmic ray hits per profile



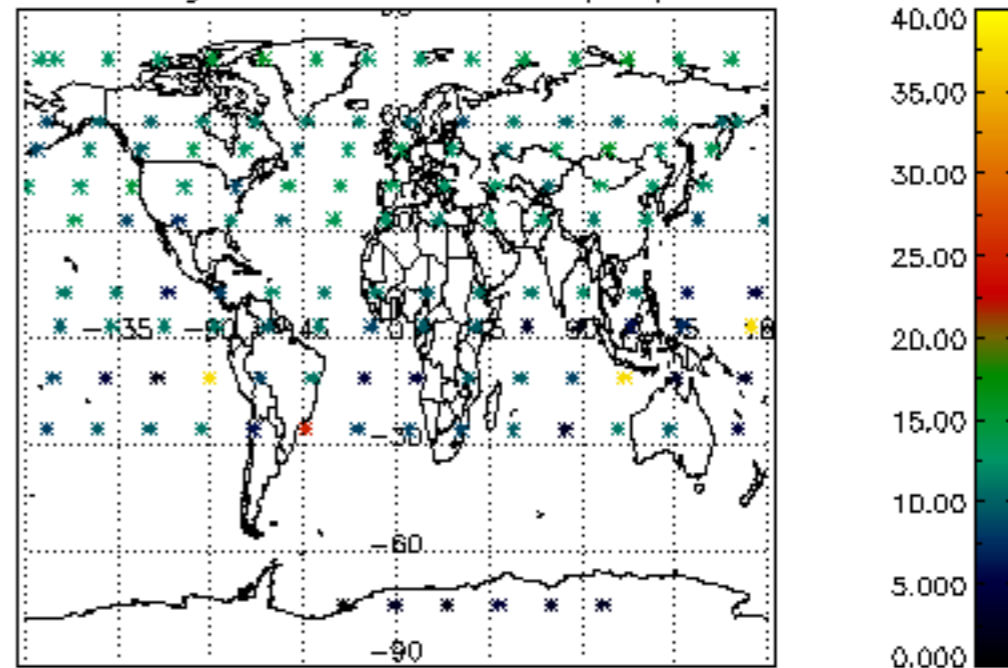
Percentage of datation errors per profile

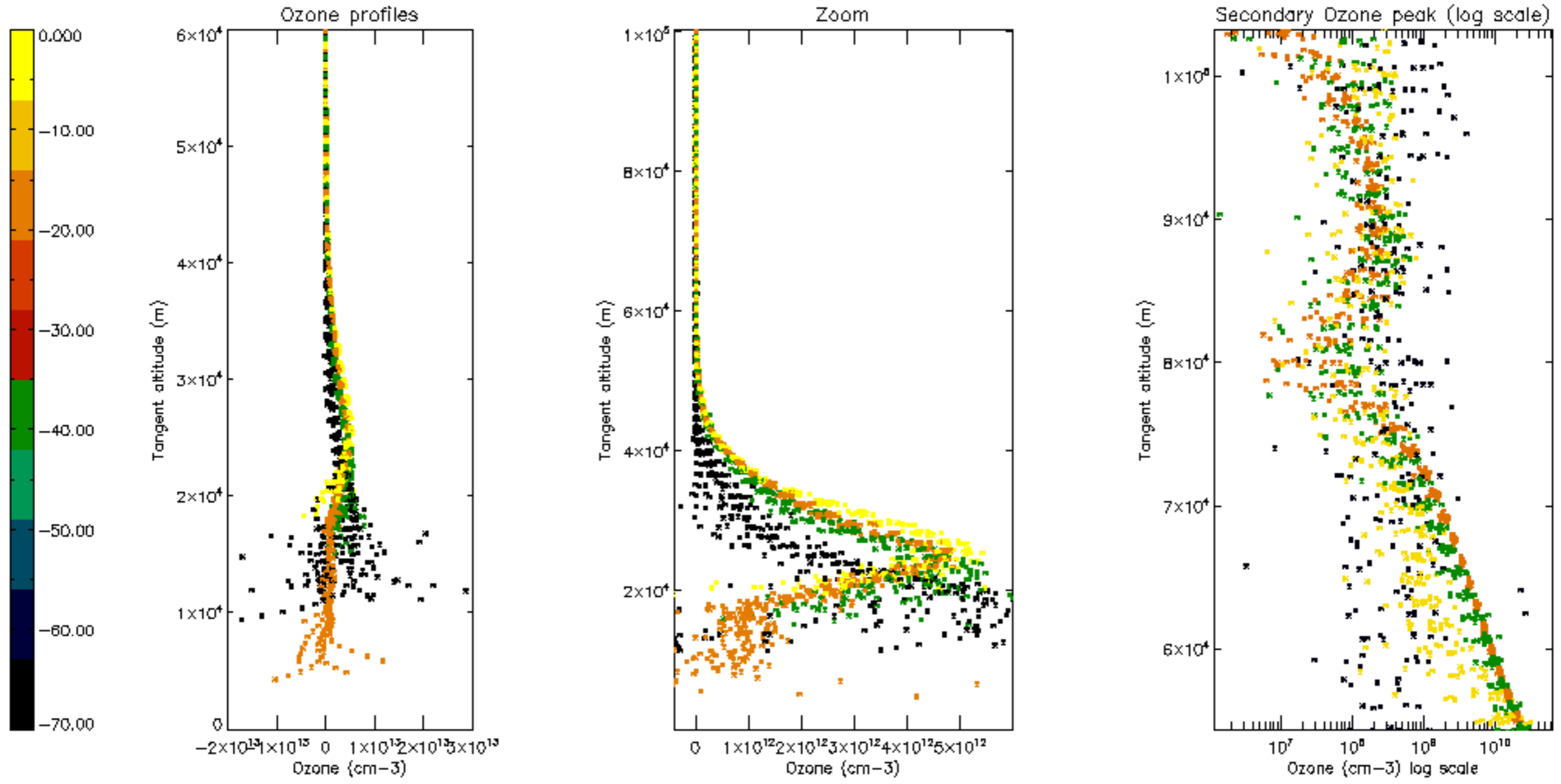


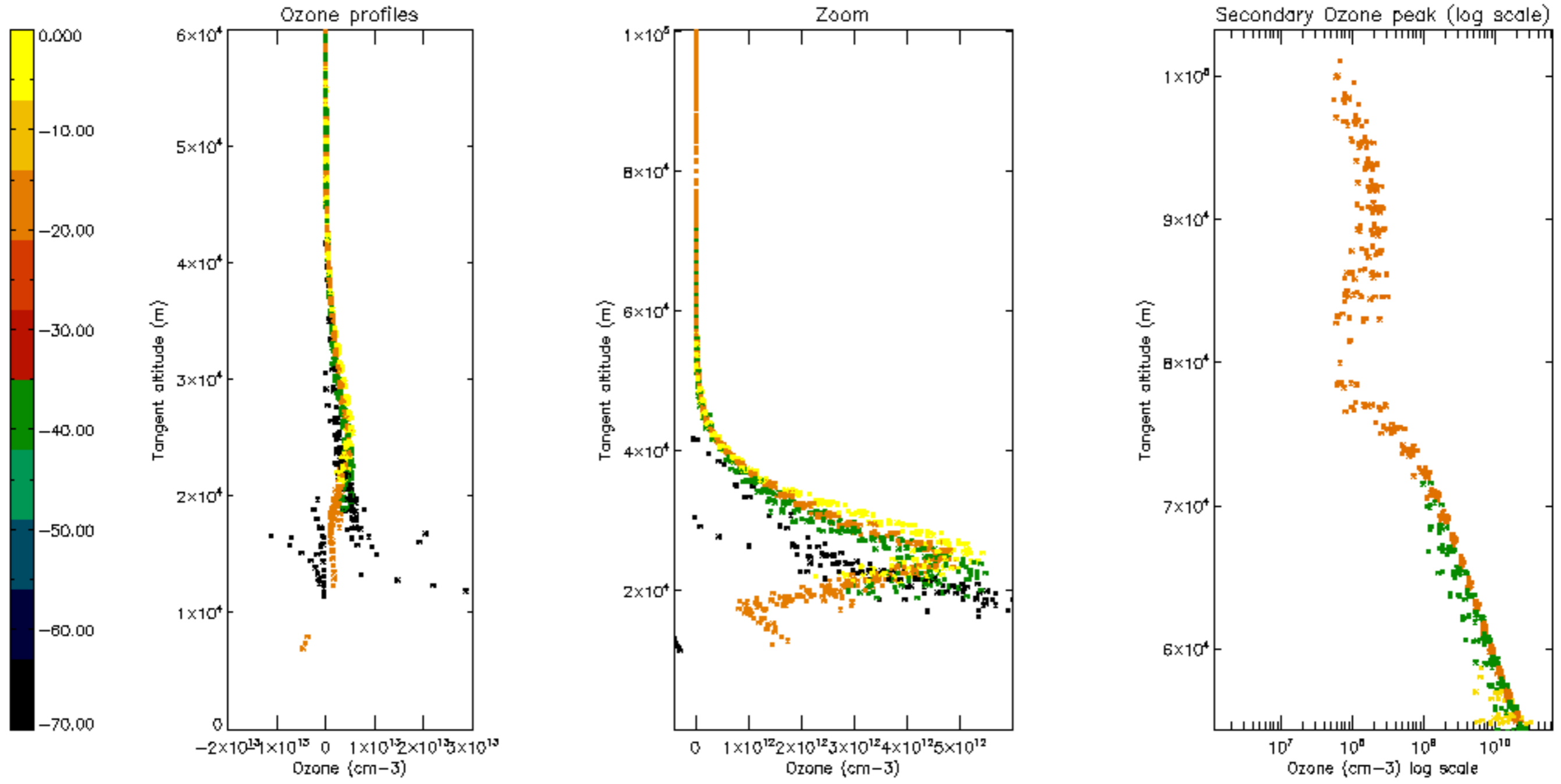
Percentage of star falling outside central band per profile

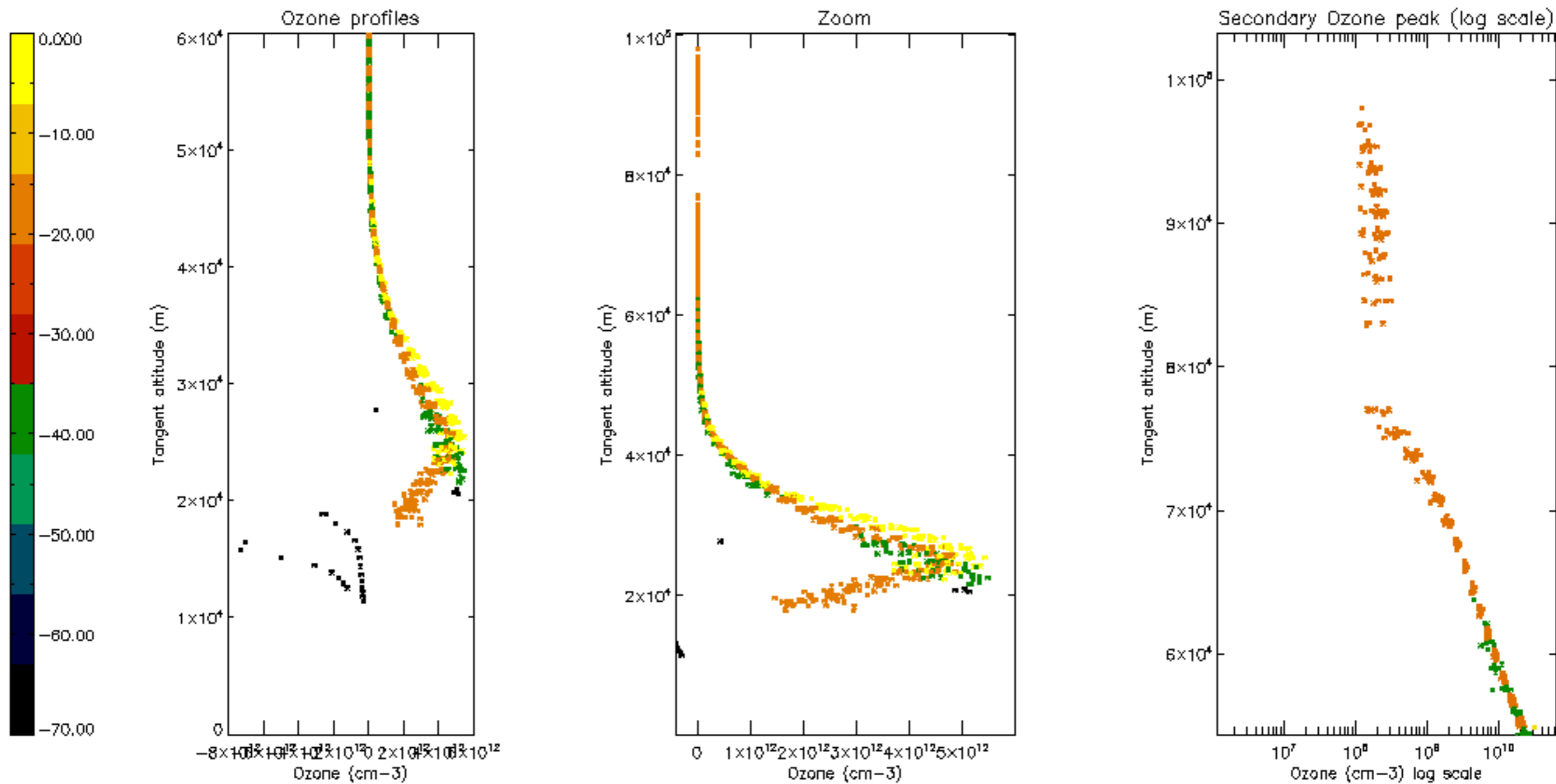


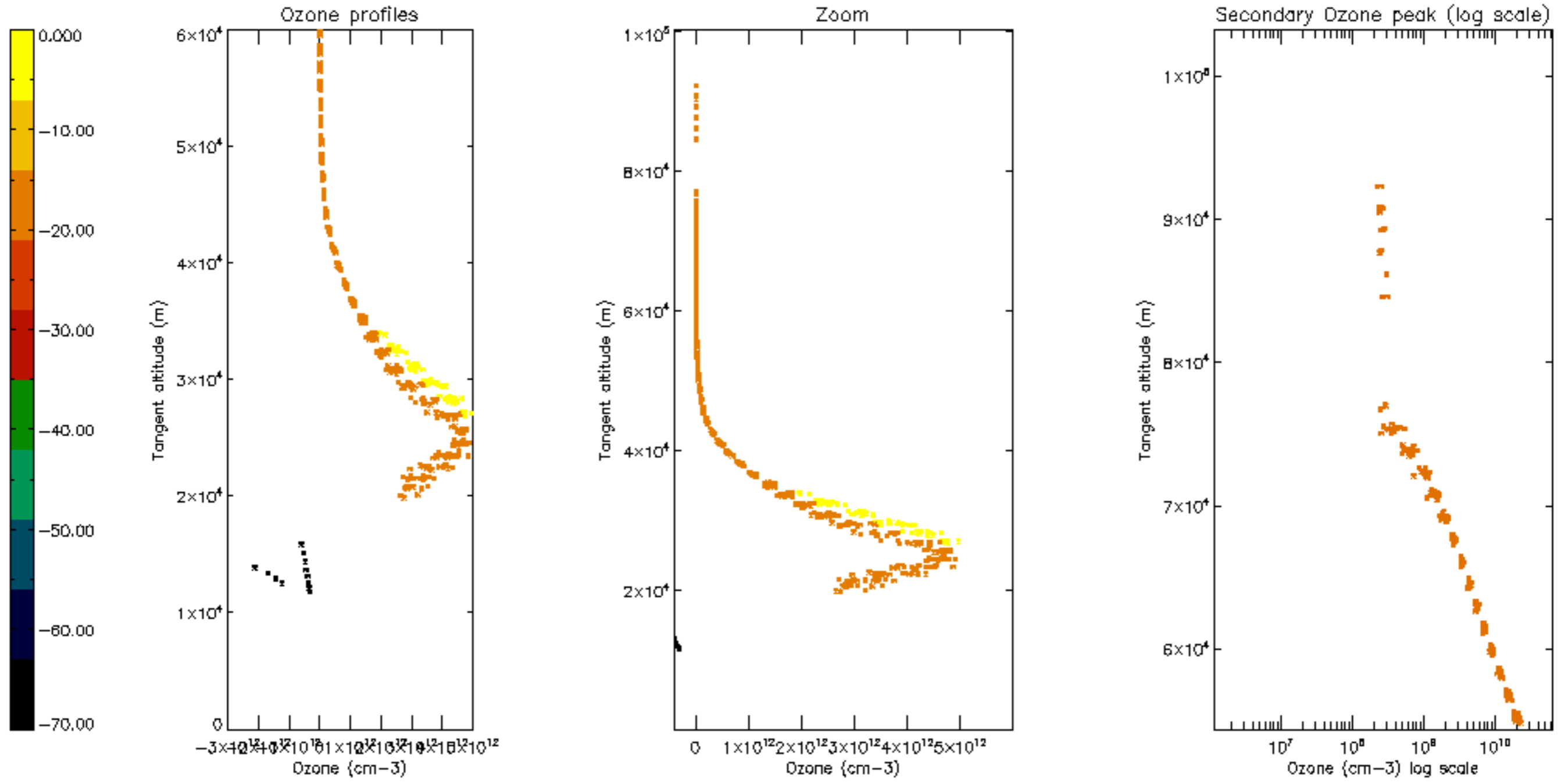
Percentage of saturation errors per profile

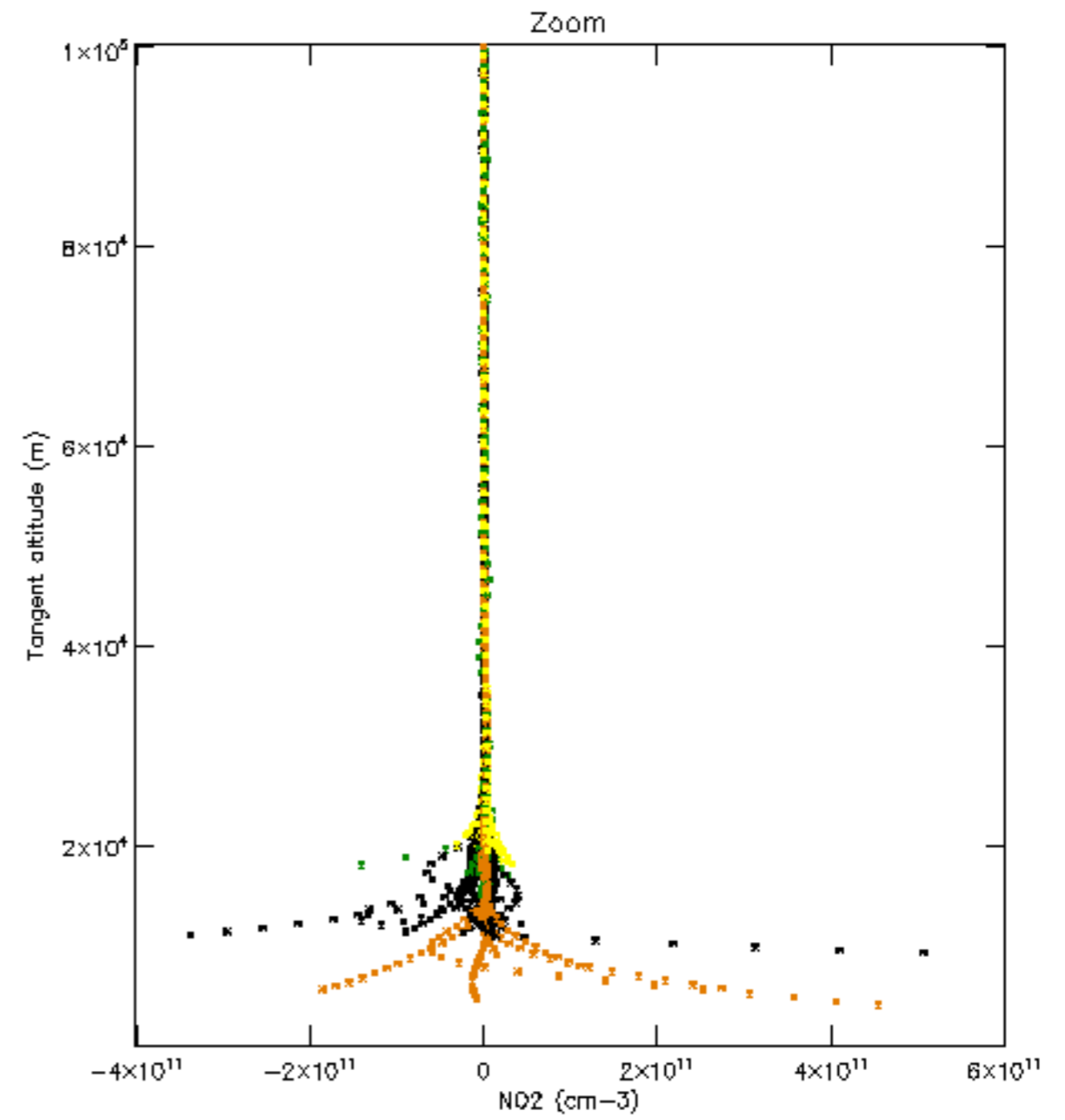
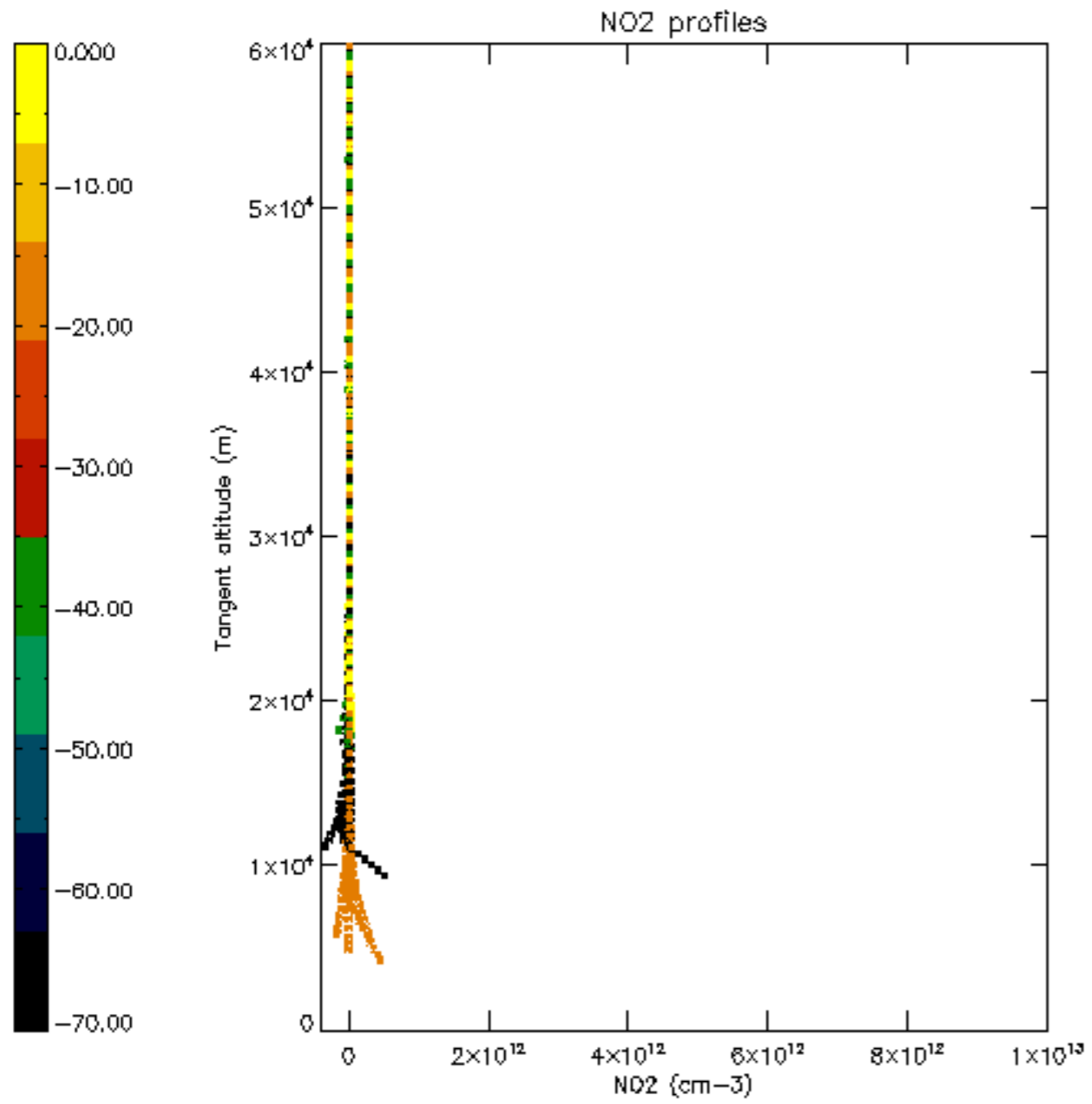


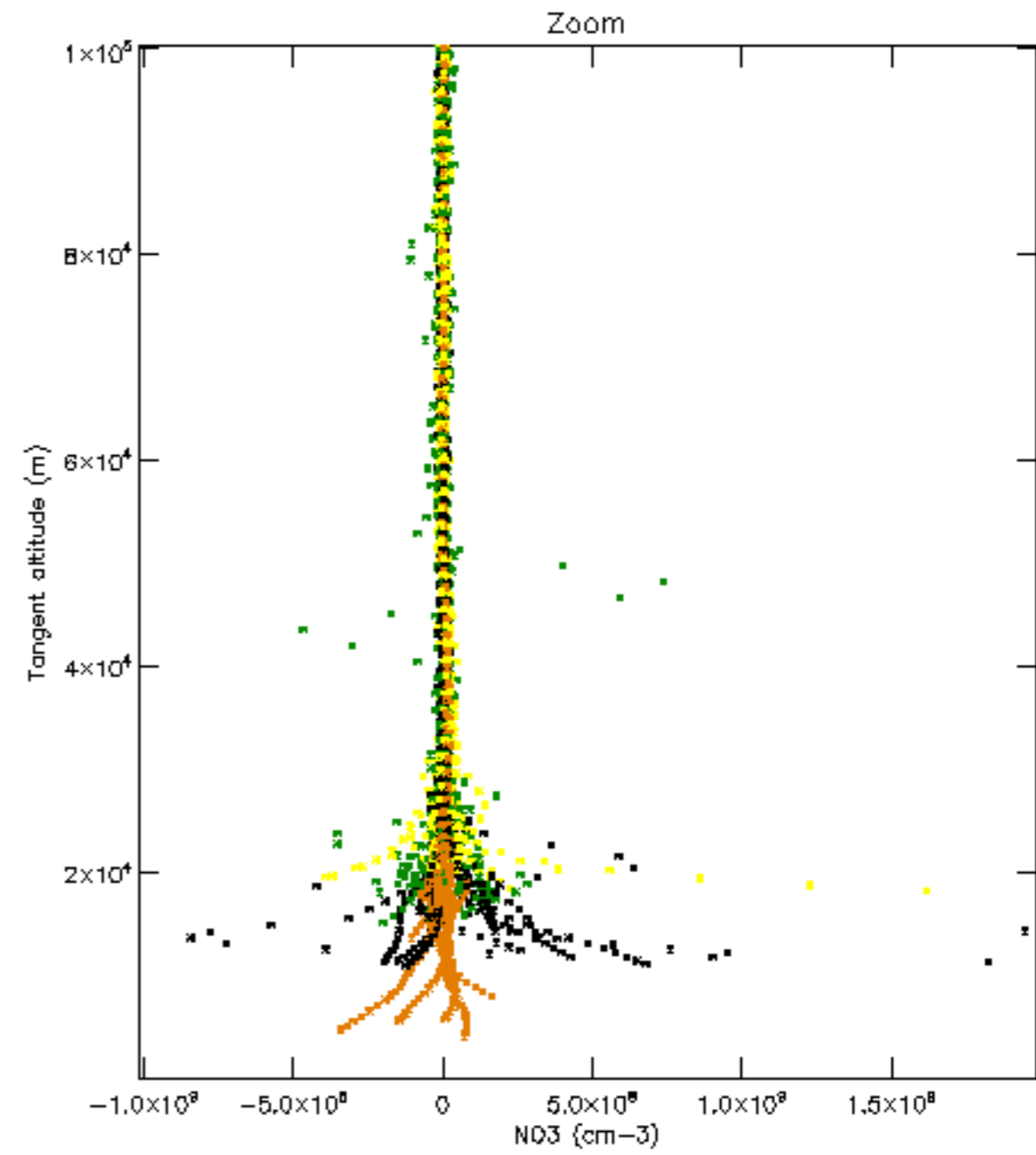
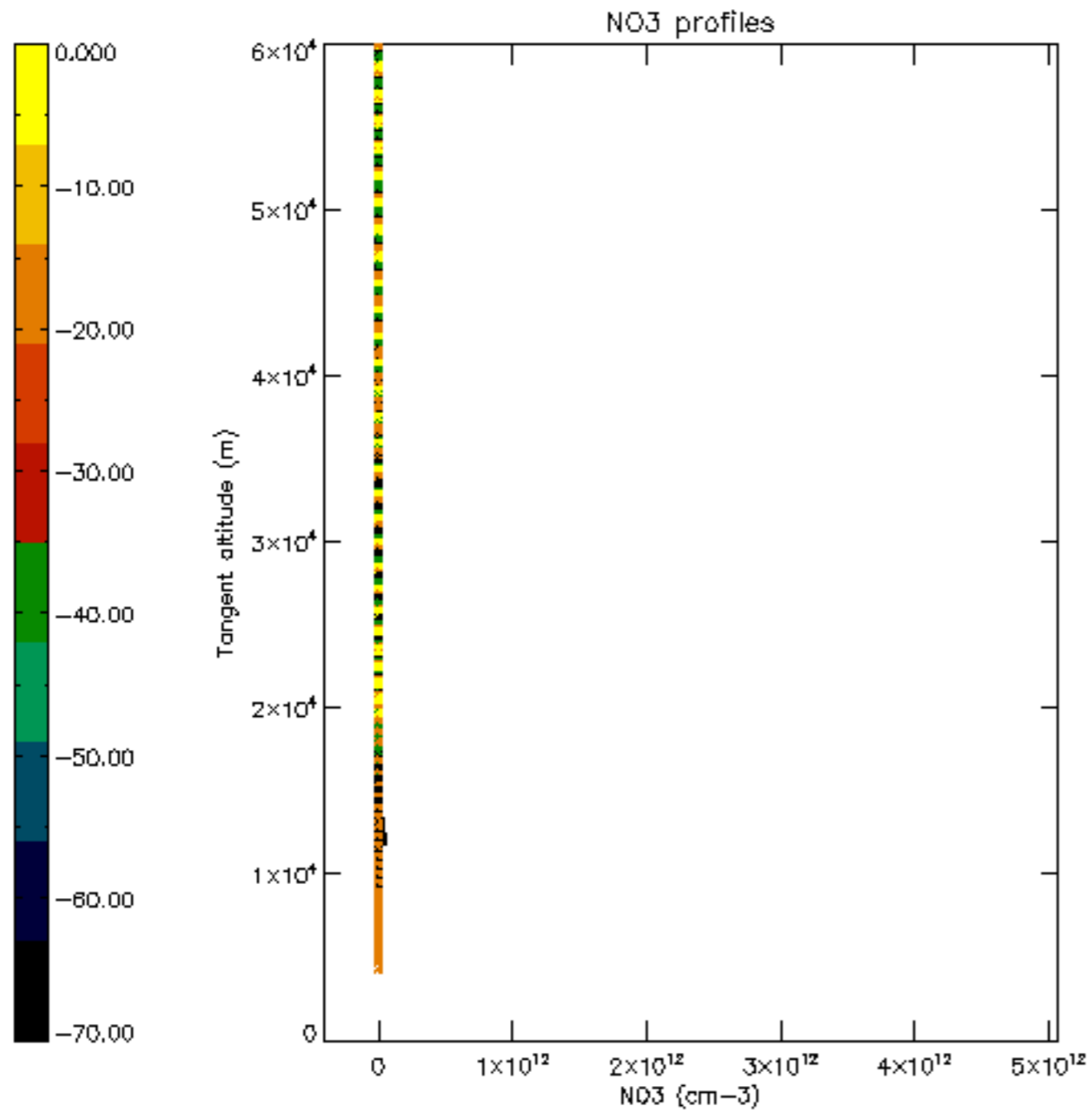




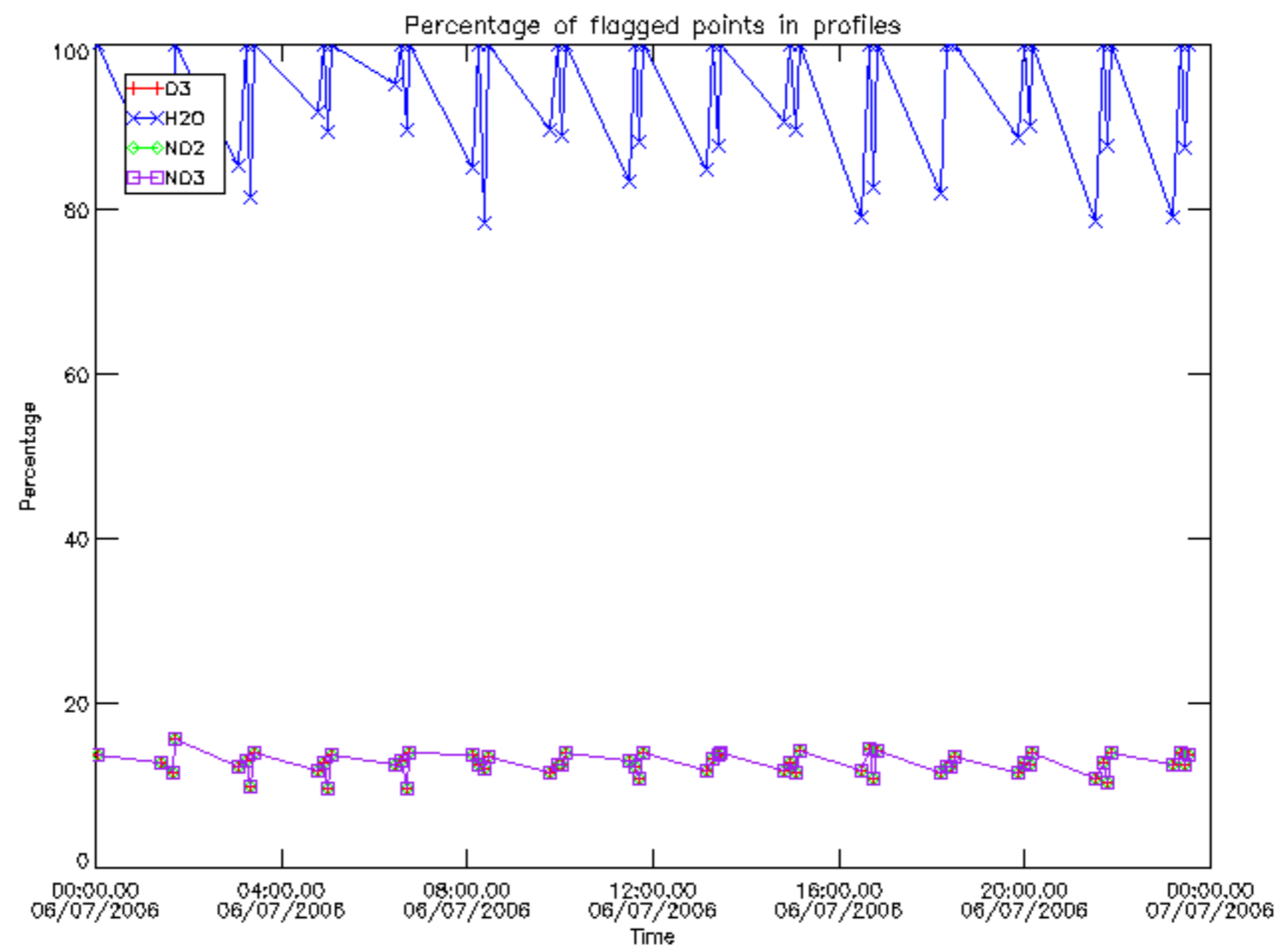




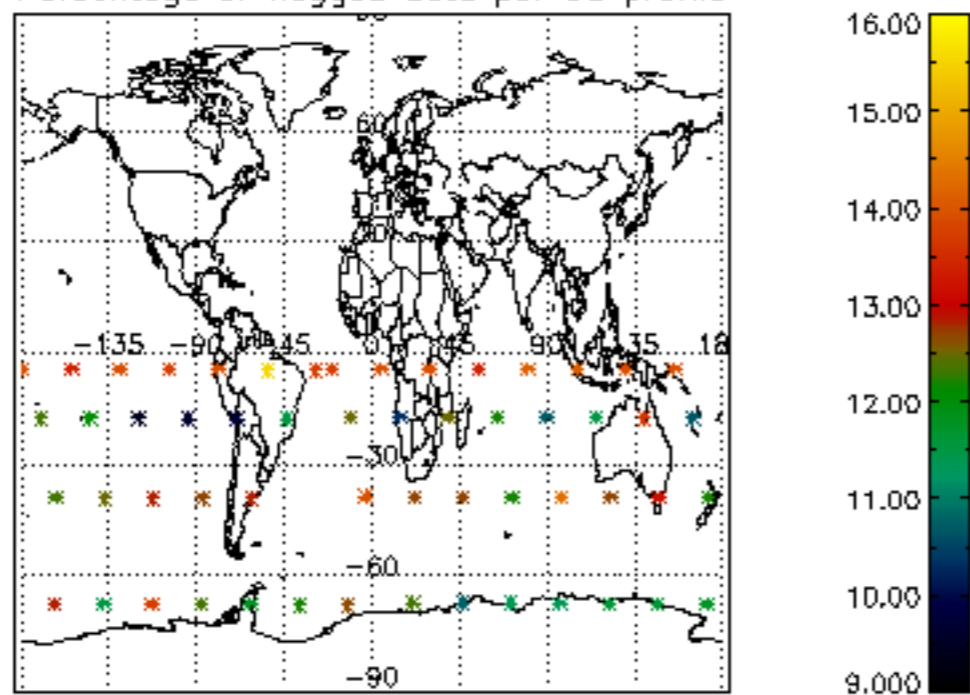




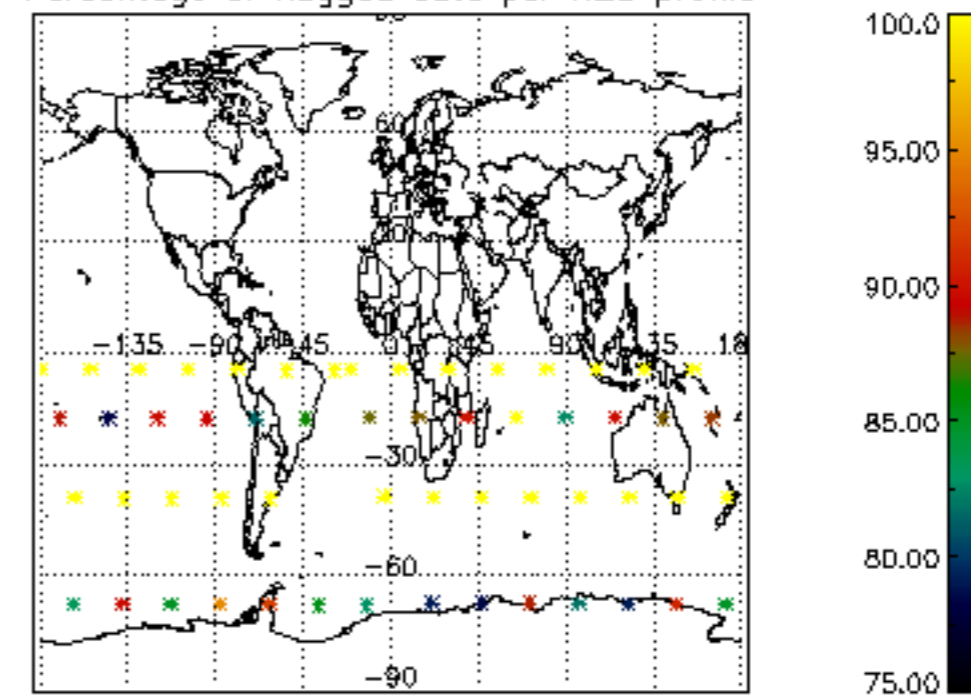




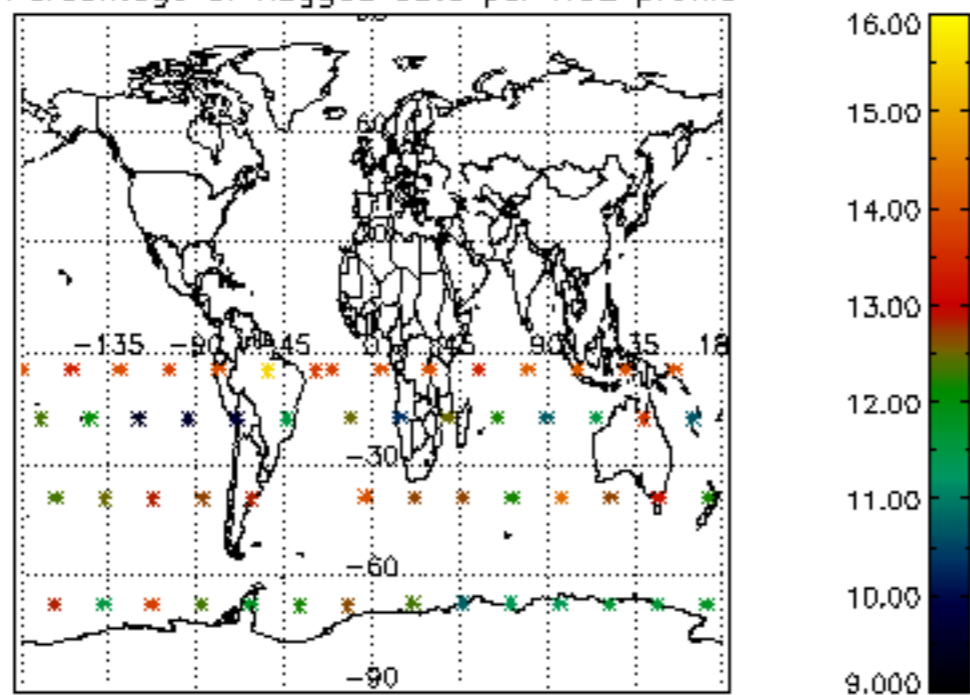
Percentage of flagged data per D3 profile



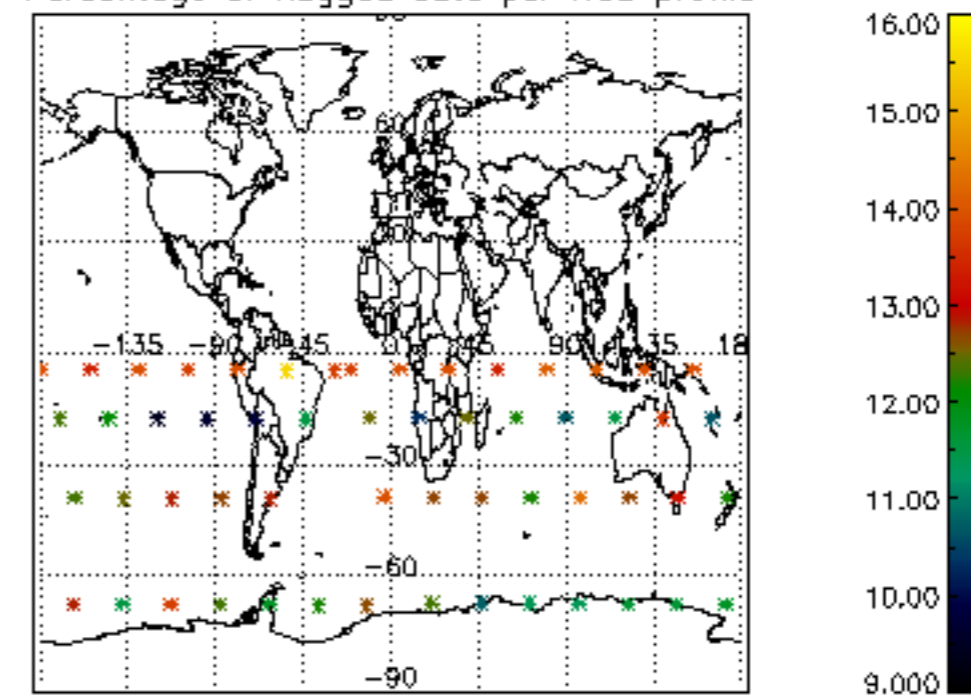
Percentage of flagged data per H2O profile

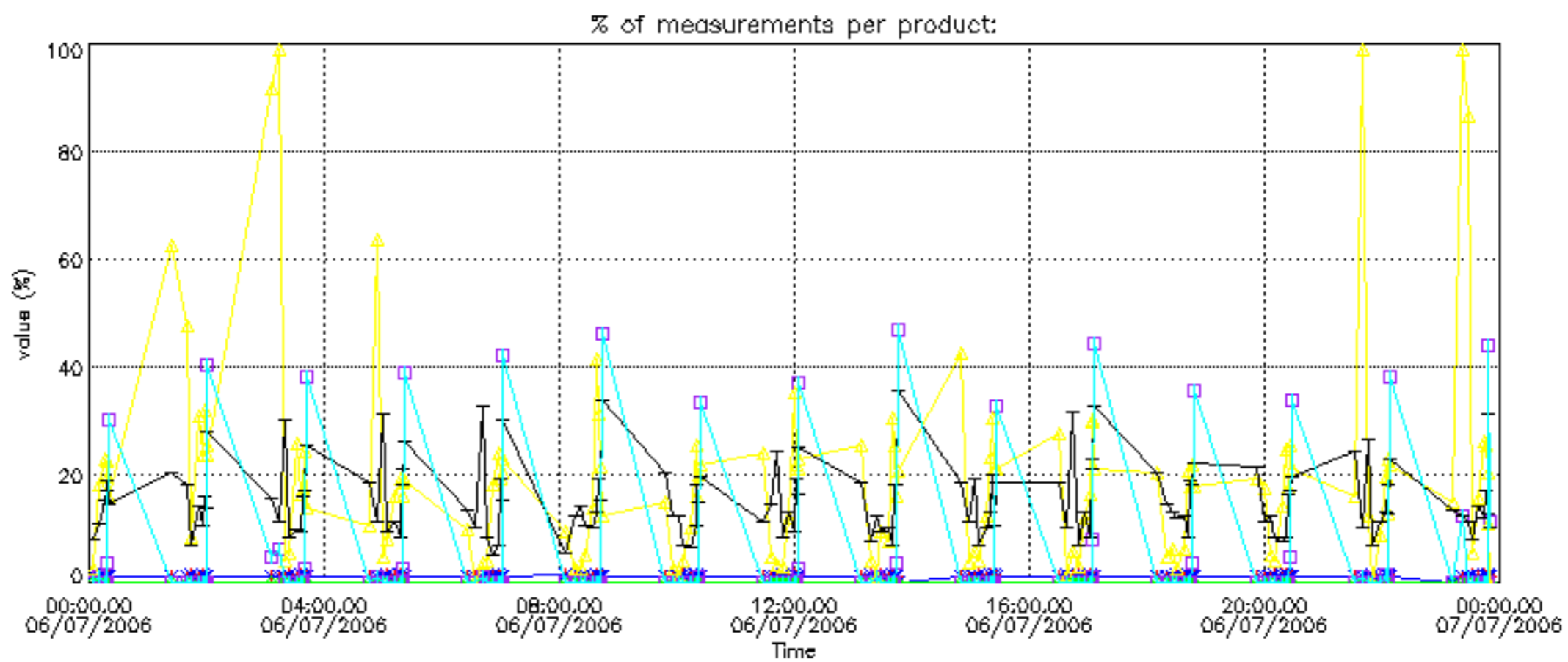


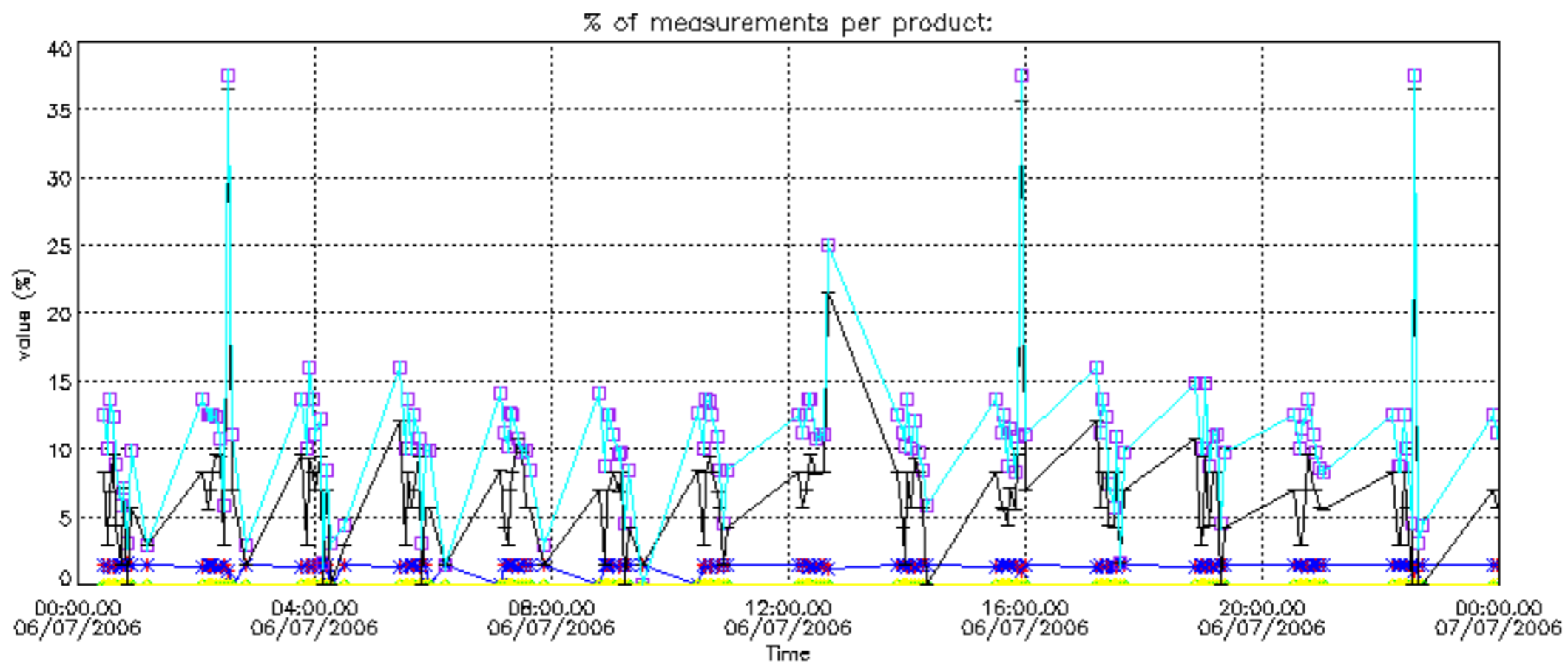
Percentage of flagged data per NO2 profile



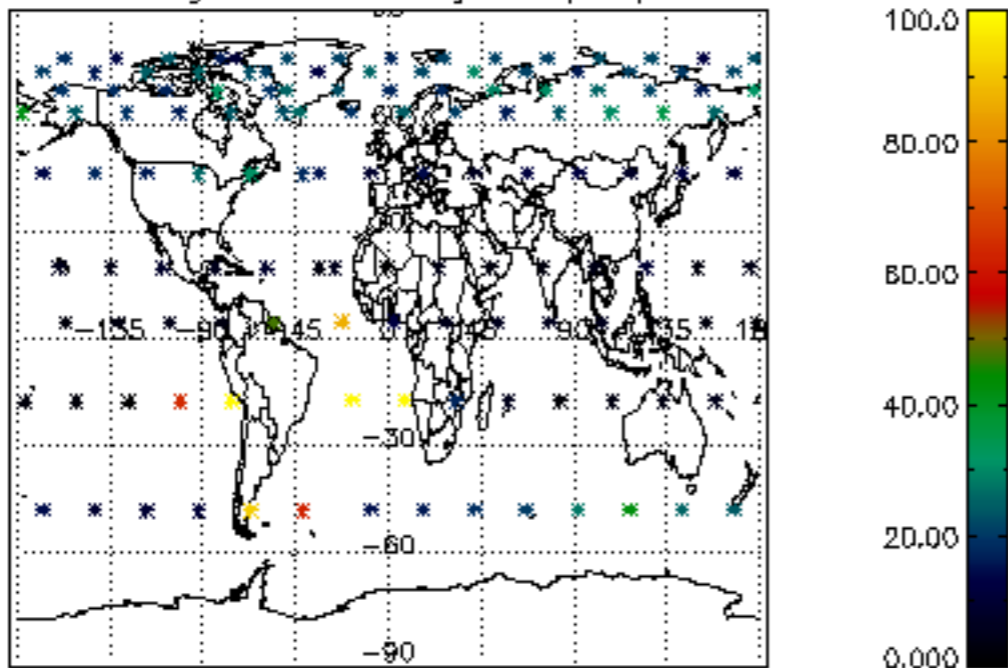
Percentage of flagged data per NO3 profile



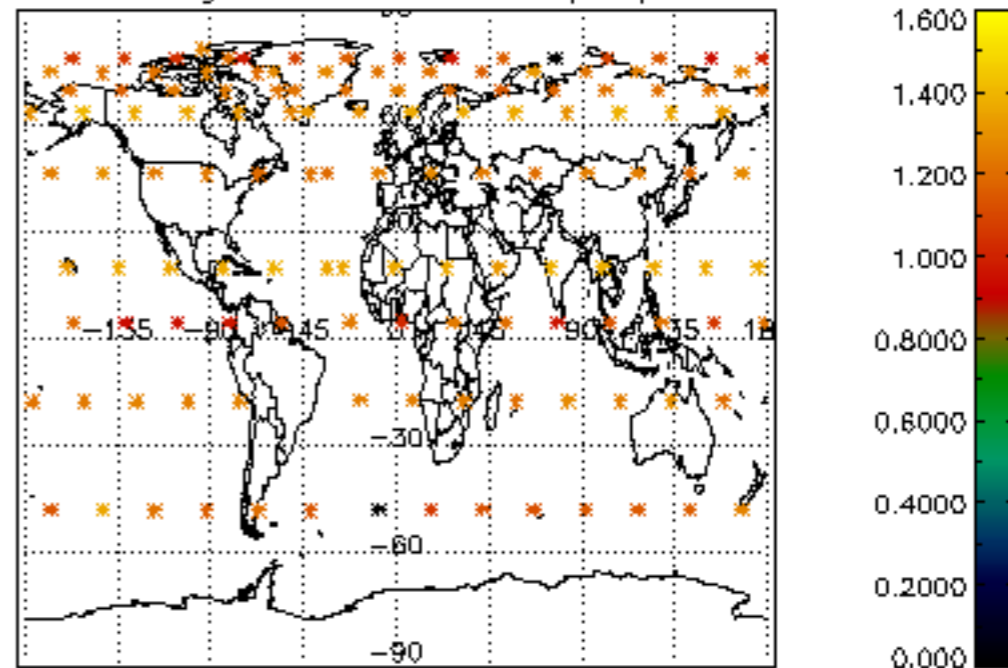




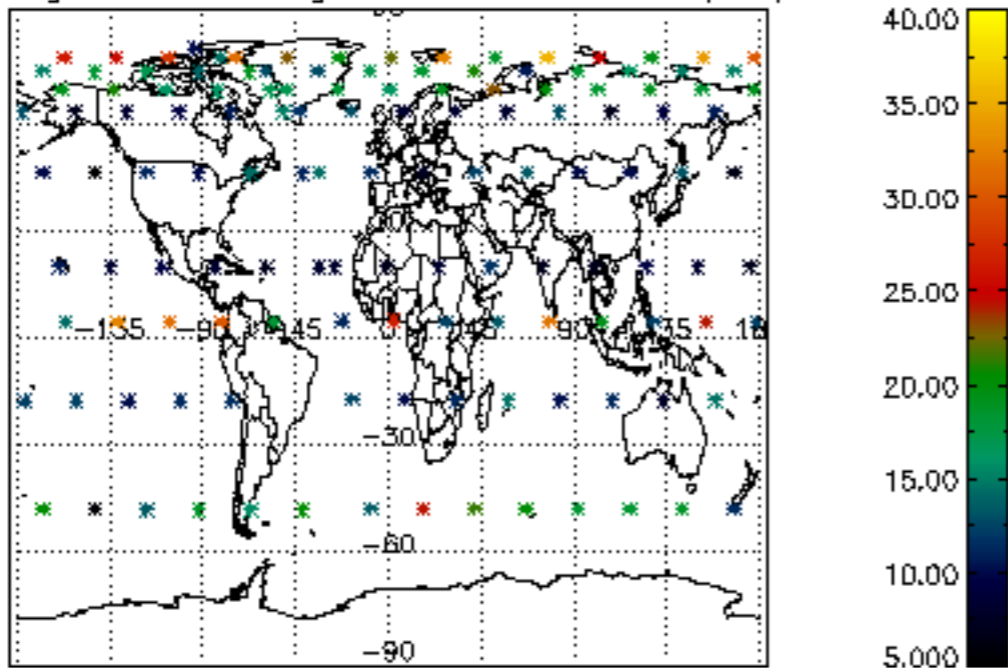
Percentage of cosmic ray hits per profile



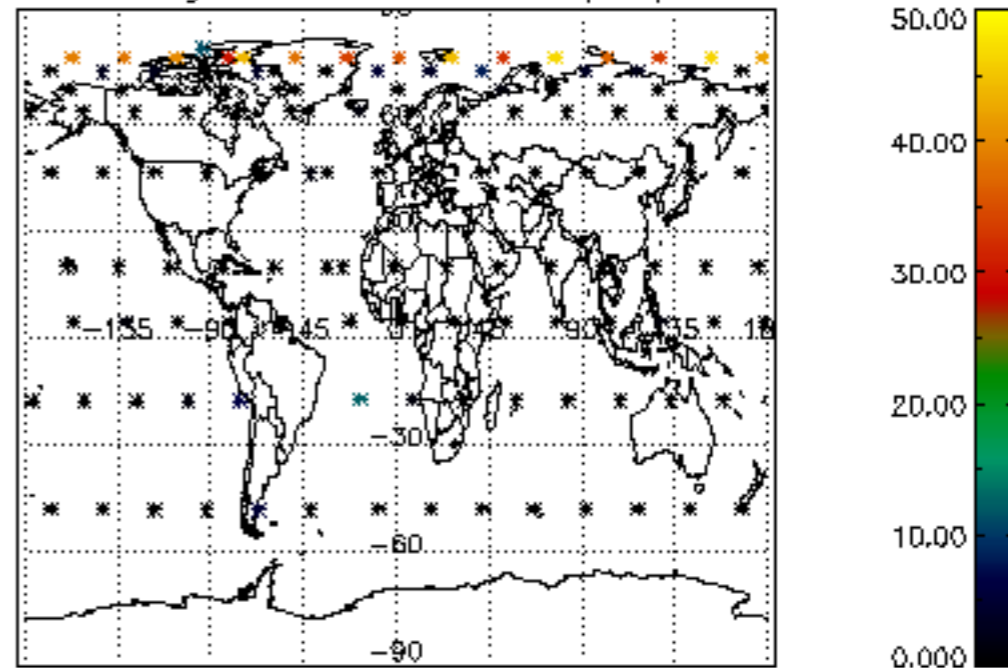
Percentage of datation errors per profile



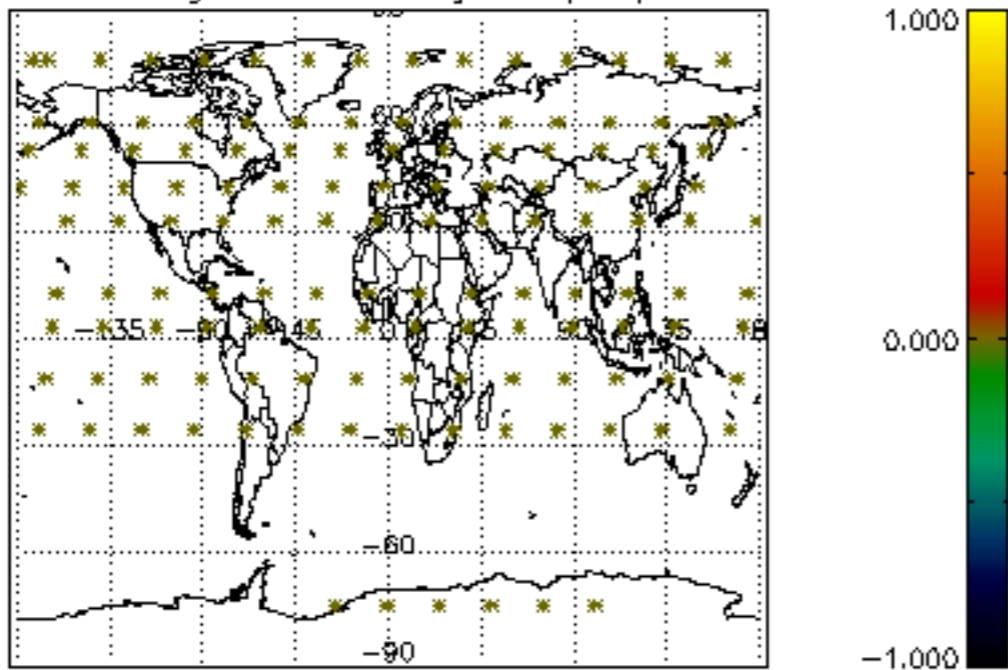
Percentage of star falling outside central band per profile



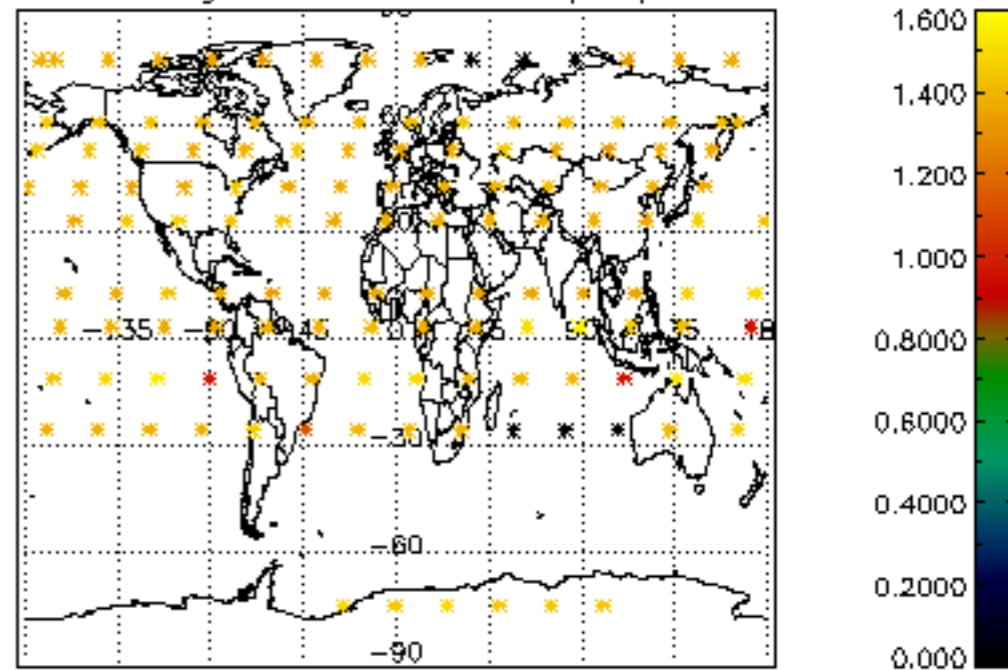
Percentage of saturation errors per profile



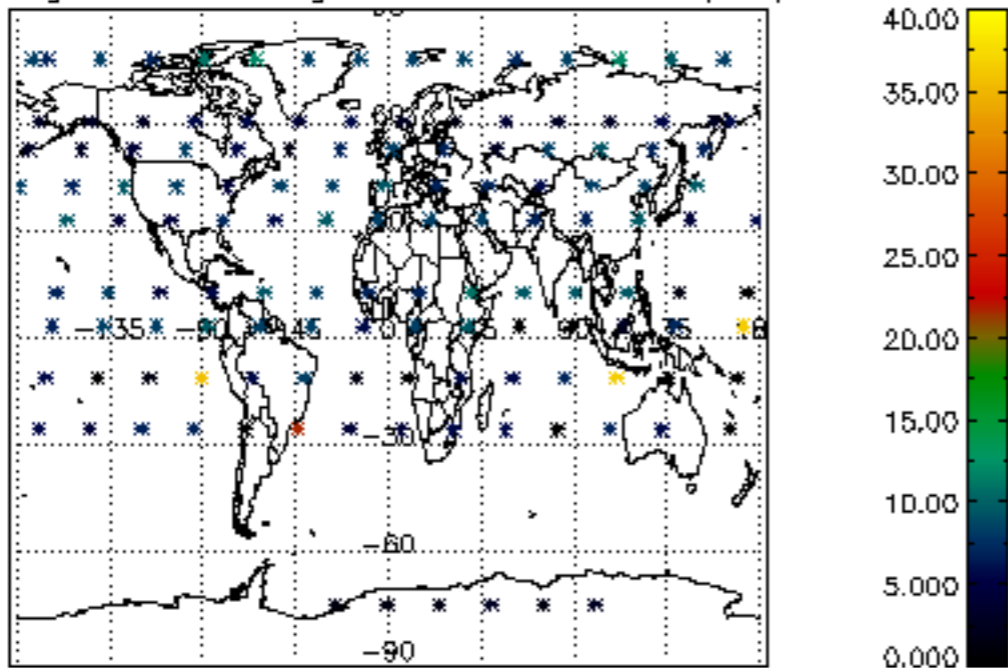
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

