

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 00:58:16
Data source version	GOMOS/6.01
Start time of products	02-07-2006 (02JUL2006 00:00:00)
Stop time of products	03-07-2006 (03JUL2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	252
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

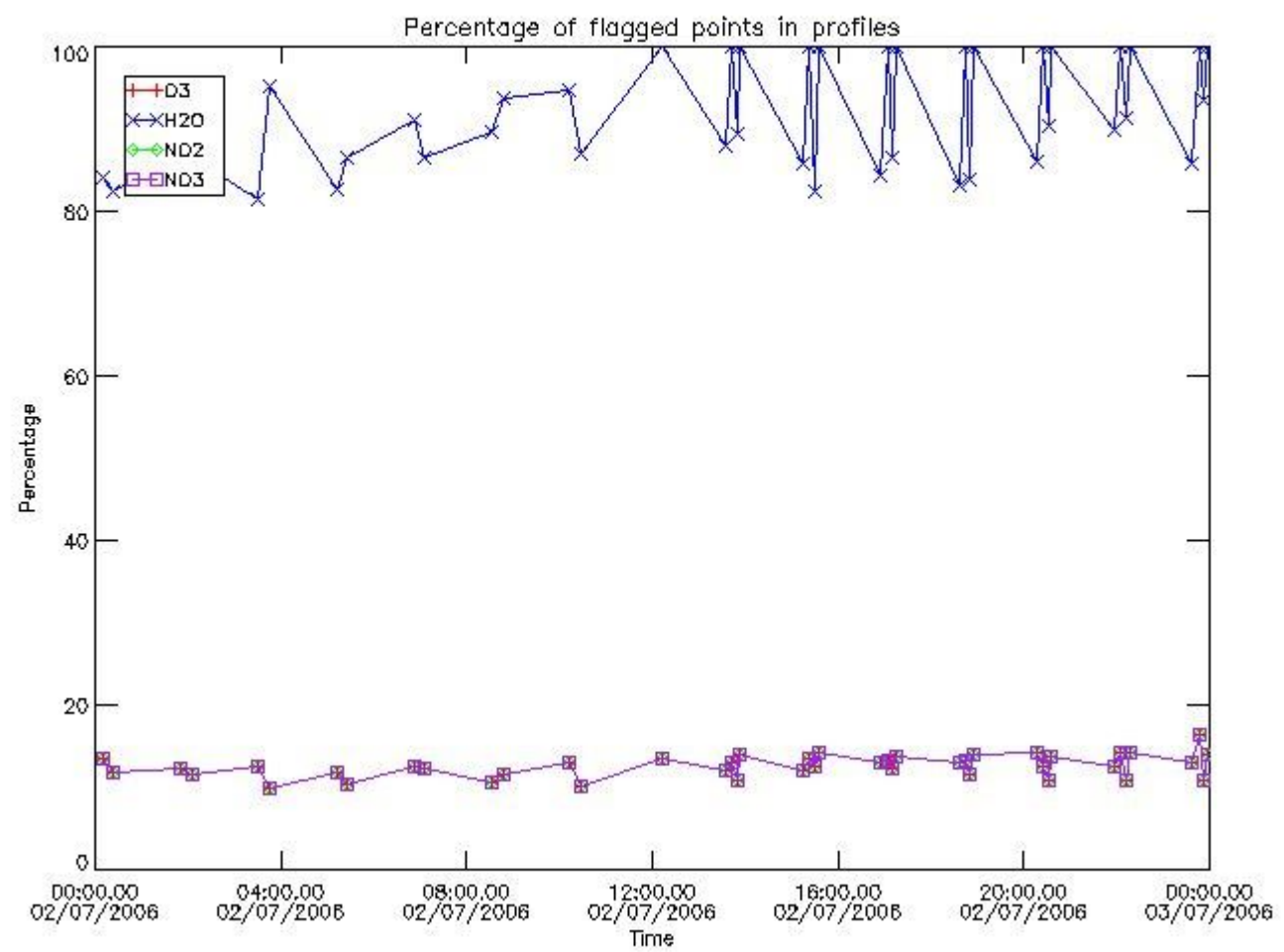
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060702_000931_000000422049_00073_22672_9650.N1	02-JUL-2006 00:09:31	Dark	41.500	165	34Gam Eri	2.9500	3200.0	83	22672	No
2	GOM_NL__2PRFIN20060702_002405_000000432049_00074_22673_9636.N1	02-JUL-2006 00:24:05	Dark	43.000	9	Alp Eri	0.45300	24000.	86	22673	No
3	GOM_NL__2PRFIN20060702_003134_000000472049_00074_22673_9637.N1	02-JUL-2006 00:31:34	Straylight	46.500	148	Alp Tuc	2.8780	4100.0	93	22673	No
4	GOM_NL__2PRFIN20060702_003554_000000412049_00074_22673_9638.N1	02-JUL-2006 00:35:54	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	22673	No
5	GOM_NL__2PRFIN20060702_004257_000000422049_00074_22673_9639.N1	02-JUL-2006 00:42:57	Twi_and_stray	42.000	40	The Sco	1.8590	7100.0	84	22673	No
6	GOM_NL__2PRFIN20060702_004436_000000392049_00074_22673_9640.N1	02-JUL-2006 00:44:36	Twi_and_stray	39.000	25	35Lam Sco	1.6200	28000.	78	22673	No
7	GOM_NL__2PRFIN20060702_004601_000000432049_00074_22673_9641.N1	02-JUL-2006 00:46:01	Bright	42.500	116	19Del Sgr	2.7000	4100.0	85	22673	No
8	GOM_NL__2PRFIN20060702_005048_000000372049_00074_22673_9642.N1	02-JUL-2006 00:50:48	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	22673	No
9	GOM_NL__2PRFIN20060702_005625_000000372049_00074_22673_9643.N1	02-JUL-2006 00:56:25	Bright	37.000	126	60Bet Oph	2.7700	4250.0	74	22673	No
10	GOM_NL__2PRFIN20060702_005845_000000372049_00074_22673_9644.N1	02-JUL-2006 00:58:45	Bright	37.000	59	55Alp Oph	2.0800	8900.0	74	22673	No
11	GOM_NL__2PRFIN20060702_010129_000000352049_00074_22673_9645.N1	02-JUL-2006 01:01:29	Bright	35.000	127	27Bet Her	2.7810	4700.0	70	22673	No
12	GOM_NL__2PRFIN20060702_010412_000000372049_00074_22673_9646.N1	02-JUL-2006 01:04:12	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	22673	No
13	GOM_NL__2PRFIN20060702_011010_000000362049_00074_22673_9647.N1	02-JUL-2006 01:10:10	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	22673	No
14	GOM_NL__2PRFIN20060702_011236_000000362049_00074_22673_9648.N1	02-JUL-2006 01:12:36	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	22673	No
15	GOM_NL__2PRFIN20060702_011636_000000342049_00074_22673_9649.N1	02-JUL-2006 01:16:36	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	22673	No
16	GOM_NL__2PRFIN20060702_012048_000000372049_00074_22673_9650.N1	02-JUL-2006 01:20:48	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	22673	No
17	GOM_NL__2PRFIN20060702_013214_000000362049_00074_22673_9651.N1	02-JUL-2006 01:32:14	Bright	35.500	35	33Alp Per	1.7950	6250.0	71	22673	No
18	GOM_NL__2PRFIN20060702_013944_000000392049_00074_22673_9652.N1	02-JUL-2006 01:39:44	Twilight	39.000	146	25Eta Tau	2.8730	15200.	78	22673	No
19	GOM_NL__2PRFIN20060702_015007_000000422049_00074_22673_9653.N1	02-JUL-2006 01:50:07	Dark	41.500	165	34Gam Eri	2.9500	3200.0	83	22673	No
20	GOM_NL__2PRFIN20060702_020441_000000492049_00075_22674_9588.N1	02-JUL-2006 02:04:41	Dark	48.500	9	Alp Eri	0.45300	24000.	97	22674	No
21	GOM_NL__2PRFIN20060702_021210_000000412049_00075_22674_9589.N1	02-JUL-2006 02:12:10	Straylight	41.000	148	Alp Tuc	2.8780	4100.0	82	22674	No
22	GOM_NL__2PRFIN20060702_021631_000000442049_00075_22674_9590.N1	02-JUL-2006 02:16:31	Straylight	43.500	45	Alp Pav	1.9400	26000.	87	22674	No
23	GOM_NL__2PRFIN20060702_022333_000000402049_00075_22674_9591.N1	02-JUL-2006 02:23:33	Twi_and_stray	39.500	40	The Sco	1.8590	7100.0	79	22674	No
24	GOM_NL__2PRFIN20060702_022512_000000412049_00075_22674_9592.N1	02-JUL-2006 02:25:12	Twi_and_stray	41.000	25	35Lam Sco	1.6200	28000.	82	22674	No
25	GOM_NL__2PRFIN20060702_022637_000000462049_00075_22674_9593.N1	02-JUL-2006 02:26:37	Bright	45.500	116	19Del Sgr	2.7000	4100.0	91	22674	No
26	GOM_NL__2PRFIN20060702_023124_000000382049_00075_22674_9594.N1	02-JUL-2006 02:31:24	Bright	37.500	86	35Eta Oph	2.4300	10200.	75	22674	No
27	GOM_NL__2PRFIN20060702_023701_000000372049_00075_22674_9595.N1	02-JUL-2006 02:37:01	Bright	36.500	126	60Bet Oph	2.7700	4250.0	73	22674	No
28	GOM_NL__2PRFIN20060702_023920_000000362049_00075_22674_9596.N1	02-JUL-2006 02:39:20	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	22674	No
29	GOM_NL__2PRFIN20060702_024205_000000352049_00075_22674_9597.N1	02-JUL-2006 02:42:05	Bright	34.500	127	27Bet Her	2.7810	4700.0	69	22674	No
30	GOM_NL__2PRFIN20060702_024448_000000342049_00075_22674_9598.N1	02-JUL-2006 02:44:48	Bright	33.500	133	40Zet Her	2.8070	6000.0	67	22674	No
31	GOM_NL__2PRFIN20060702_025046_000000352049_00075_22674_9599.N1	02-JUL-2006 02:50:46	Bright	34.500	130	23Bet Dra	2.7990	5800.0	69	22674	No
32	GOM_NL__2PRFIN20060702_025312_000000332049_00075_22674_9600.N1	02-JUL-2006 02:53:12	Bright	33.000	119	14Eta Dra	2.7270	4700.0	66	22674	No
33	GOM_NL__2PRFIN20060702_025712_000000332049_00075_22674_9601.N1	02-JUL-2006 02:57:12	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	22674	No
34	GOM_NL__2PRFIN20060702_030124_000000352049_00075_22674_9602.N1	02-JUL-2006 03:01:24	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	22674	No
35	GOM_NL__2PRFIN20060702_031250_000000372049_00075_22674_9603.N1	02-JUL-2006 03:12:50	Bright	36.500	35	33Alp Per	1.7950	6250.0	73	22674	No
36	GOM_NL__2PRFIN20060702_032021_000000392049_00075_22674_9604.N1	02-JUL-2006 03:20:21	Twilight	39.000	146	25Eta Tau	2.8730	15200.	78	22674	No
37	GOM_NL__2PRFIN20060702_033044_000000412049_00075_22674_9605.N1	02-JUL-2006 03:30:44	Dark	41.000	165	34Gam Eri	2.9500	3200.0	82	22674	No
38	GOM_NL__2PRFIN20060702_034518_000000522049_00076_22675_9608.N1	02-JUL-2006 03:45:18	Dark	51.500	9	Alp Eri	0.45300	24000.	103	22675	No
39	GOM_NL__2PRFIN20060702_035247_000000472049_00076_22675_9609.N1	02-JUL-2006 03:52:47	Straylight	47.000	148	Alp Tuc	2.8780	4100.0	94	22675	No
40	GOM_NL__2PRFIN20060702_035707_000000412049_00076_22675_9610.N1	02-JUL-2006 03:57:07	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	22675	No
41	GOM_NL__2PRFIN20060702_040409_000000442049_00076_22675_9611.N1	02-JUL-2006 04:04:09	Twi_and_stray	43.500	40	The Sco	1.8590	7100.0	87	22675	No
42	GOM_NL__2PRFIN20060702_040549_000000422049_00076_22675_9612.N1	02-JUL-2006 04:05:49	Twi_and_stray	41.500	25	35Lam Sco	1.6200	28000.	83	22675	No

220	GOM_NL__2PRFIN20060702_210555_000000372049_00086_22685_9638.N1	02-JUL-2006 21:05:55	Bright	37.000	59	55Alp Oph	2.0800	8900.0	74	22685	No
221	GOM_NL__2PRFIN20060702_210842_000000352049_00086_22685_9639.N1	02-JUL-2006 21:08:42	Bright	34.500	127	27Bet Her	2.7810	4700.0	69	22685	No
222	GOM_NL__2PRFIN20060702_211124_000000362049_00086_22685_9640.N1	02-JUL-2006 21:11:24	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	22685	No
223	GOM_NL__2PRFIN20060702_211720_000000302049_00086_22685_9641.N1	02-JUL-2006 21:17:20	Bright	30.000	130	23Bet Dra	2.7990	5800.0	60	22685	No
224	GOM_NL__2PRFIN20060702_211948_000000362049_00086_22685_9642.N1	02-JUL-2006 21:19:48	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	22685	No
225	GOM_NL__2PRFIN20060702_212349_000000502049_00086_22685_9643.N1	02-JUL-2006 21:23:49	Bright	50.000	60	7Bet UMi	2.0810	3950.0	100	22685	No
226	GOM_NL__2PRFIN20060702_212759_000000522049_00086_22685_9644.N1	02-JUL-2006 21:27:59	Bright	52.000	49	1Alp UMi	1.9900	6300.0	104	22685	No
227	GOM_NL__2PRFIN20060702_214658_000000402049_00086_22685_9645.N1	02-JUL-2006 21:46:58	Twilight	39.500	146	25Eta Tau	2.8730	15200.	79	22685	No
228	GOM_NL__2PRFIN20060702_215722_000000452049_00086_22685_9646.N1	02-JUL-2006 21:57:22	Dark	44.500	165	34Gam Eri	2.9500	3200.0	89	22685	No
229	GOM_NL__2PRFIN20060702_220550_000000402049_00086_22685_9647.N1	02-JUL-2006 22:05:50	Dark	39.500	157	The1Eri	2.9060	9300.0	79	22685	No
230	GOM_NL__2PRFIN20060702_221159_000000472049_00087_22686_9628.N1	02-JUL-2006 22:11:59	Dark	47.000	9	Alp Eri	0.45300	24000.	94	22686	No
231	GOM_NL__2PRFIN20060702_221632_000000362049_00087_22686_9629.N1	02-JUL-2006 22:16:32	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	22686	No
232	GOM_NL__2PRFIN20060702_222348_000000422049_00087_22686_9630.N1	02-JUL-2006 22:23:48	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	22686	No
233	GOM_NL__2PRFIN20060702_222730_000000412049_00087_22686_9631.N1	02-JUL-2006 22:27:30	Straylight	40.500	141	Bet Ara	2.8400	4600.0	81	22686	No
234	GOM_NL__2PRFIN20060702_222858_000000382049_00087_22686_9632.N1	02-JUL-2006 22:28:58	Twi_and_stray	38.000	147	Alp Ara	2.8770	26000.	76	22686	No
235	GOM_NL__2PRFIN20060702_223047_000000422049_00087_22686_9633.N1	02-JUL-2006 22:30:47	Twi_and_stray	42.000	40	The Sco	1.8590	7100.0	84	22686	No
236	GOM_NL__2PRFIN20060702_223226_000000412049_00087_22686_9634.N1	02-JUL-2006 22:32:26	Twi_and_stray	40.500	25	35Lam Sco	1.6200	28000.	81	22686	No
237	GOM_NL__2PRFIN20060702_223352_000000502049_00087_22686_9635.N1	02-JUL-2006 22:33:52	Bright	49.500	116	19Del Sgr	2.7000	4100.0	99	22686	No
238	GOM_NL__2PRFIN20060702_223837_000000362049_00087_22686_9636.N1	02-JUL-2006 22:38:37	Bright	36.000	86	35Eta Oph	2.4300	10200.	72	22686	No
239	GOM_NL__2PRFIN20060702_224023_000000352049_00087_22686_9637.N1	02-JUL-2006 22:40:23	Bright	34.500	98	13Zet Oph	2.5710	30000.	69	22686	No
240	GOM_NL__2PRFIN20060702_224412_000000362049_00087_22686_9638.N1	02-JUL-2006 22:44:12	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	22686	No
241	GOM_NL__2PRFIN20060702_224631_000000372049_00087_22686_9639.N1	02-JUL-2006 22:46:31	Bright	37.000	59	55Alp Oph	2.0800	8900.0	74	22686	No
242	GOM_NL__2PRFIN20060702_224918_000000372049_00087_22686_9640.N1	02-JUL-2006 22:49:18	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	22686	No
243	GOM_NL__2PRFIN20060702_225200_000000372049_00087_22686_9641.N1	02-JUL-2006 22:52:00	Bright	36.500	133	40Zet Her	2.8070	6000.0	73	22686	No
244	GOM_NL__2PRFIN20060702_225756_000000352049_00087_22686_9642.N1	02-JUL-2006 22:57:56	Bright	34.500	130	23Bet Dra	2.7990	5800.0	69	22686	No
245	GOM_NL__2PRFIN20060702_230024_000000362049_00087_22686_9643.N1	02-JUL-2006 23:00:24	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	22686	No
246	GOM_NL__2PRFIN20060702_230425_000000342049_00087_22686_9644.N1	02-JUL-2006 23:04:25	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	22686	No
247	GOM_NL__2PRFIN20060702_230835_000000332049_00087_22686_9645.N1	02-JUL-2006 23:08:35	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	22686	No
248	GOM_NL__2PRFIN20060702_232734_000000382049_00087_22686_9646.N1	02-JUL-2006 23:27:34	Twilight	38.000	146	25Eta Tau	2.8730	15200.	76	22686	No
249	GOM_NL__2PRFIN20060702_233758_000000432049_00087_22686_9647.N1	02-JUL-2006 23:37:58	Dark	42.500	165	34Gam Eri	2.9500	3200.0	85	22686	No
250	GOM_NL__2PRFIN20060702_234626_000000412049_00087_22686_9648.N1	02-JUL-2006 23:46:26	Dark	40.500	157	The1Eri	2.9060	9300.0	81	22686	No
251	GOM_NL__2PRFIN20060702_235235_000000472049_00088_22687_9628.N1	02-JUL-2006 23:52:35	Dark	46.500	9	Alp Eri	0.45300	24000.	93	22687	No
252	GOM_NL__2PRFIN20060702_235708_000000372049_00088_22687_9629.N1	02-JUL-2006 23:57:08	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	22687	No

3. Quality information per product

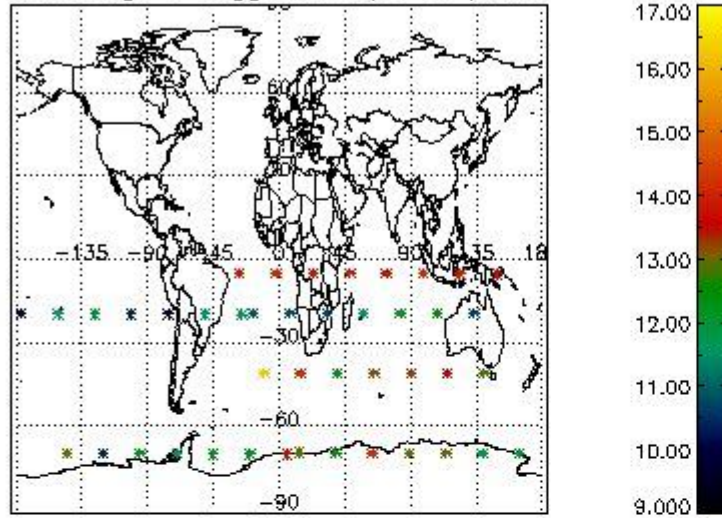
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

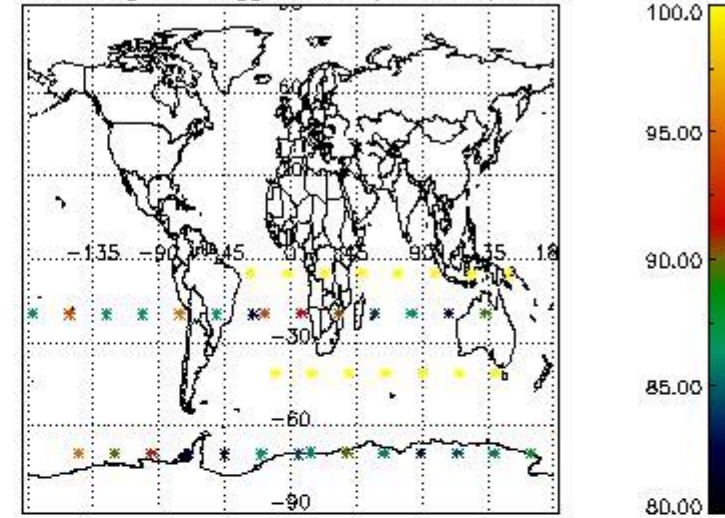


3.2 Plot quality information per product (world map)

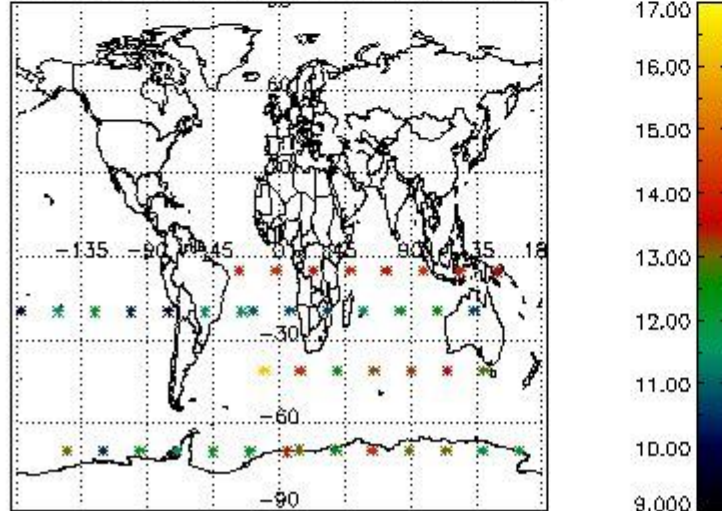
Percentage of flagged data per O3 profile



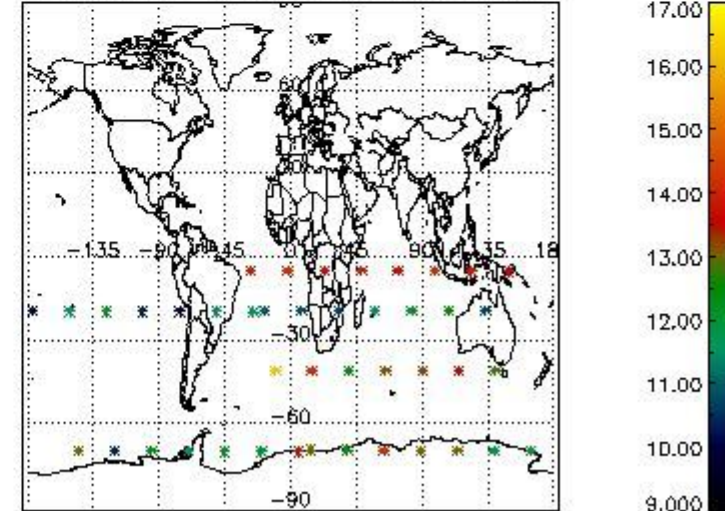
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

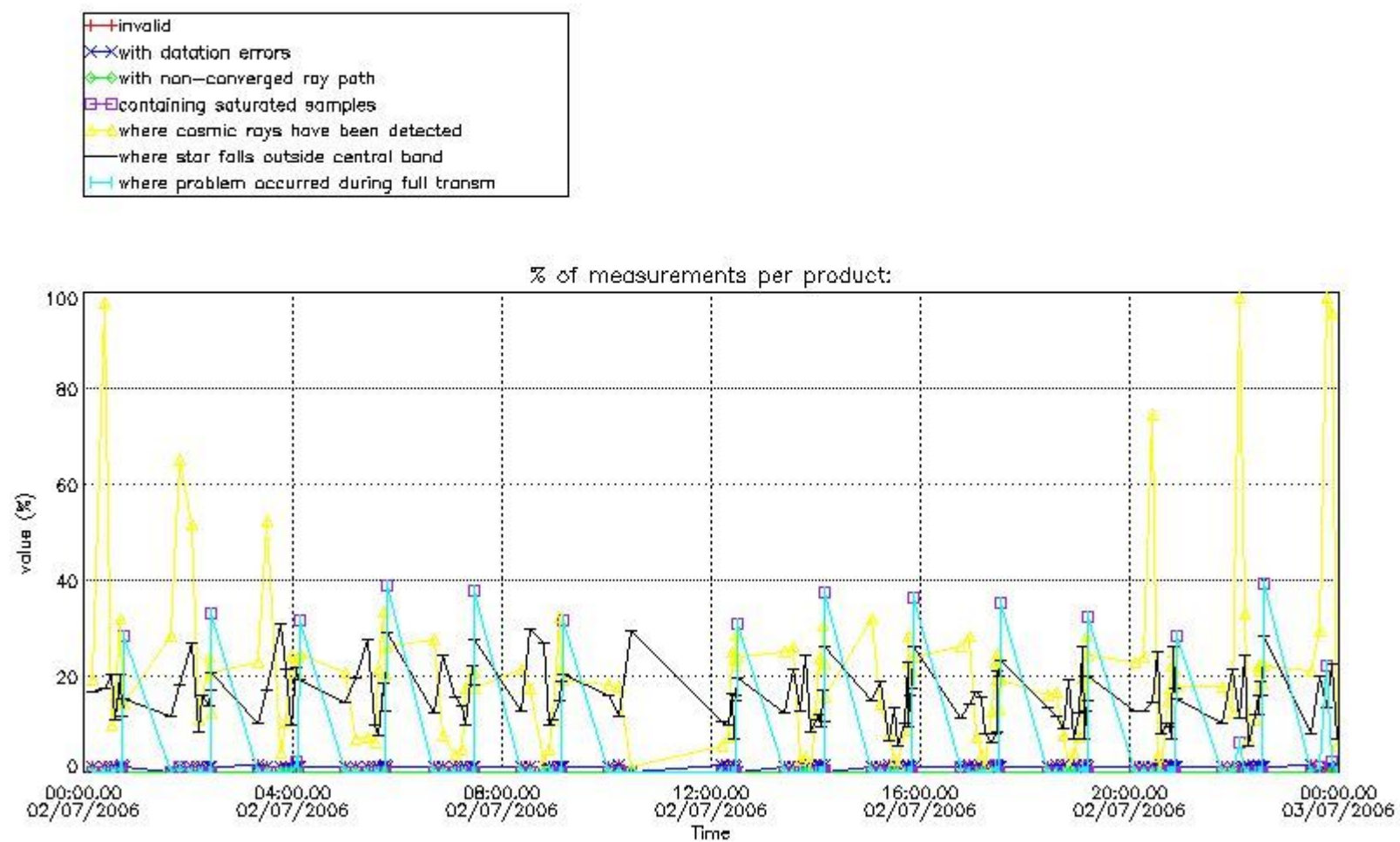


4. Level 1 quality information per product

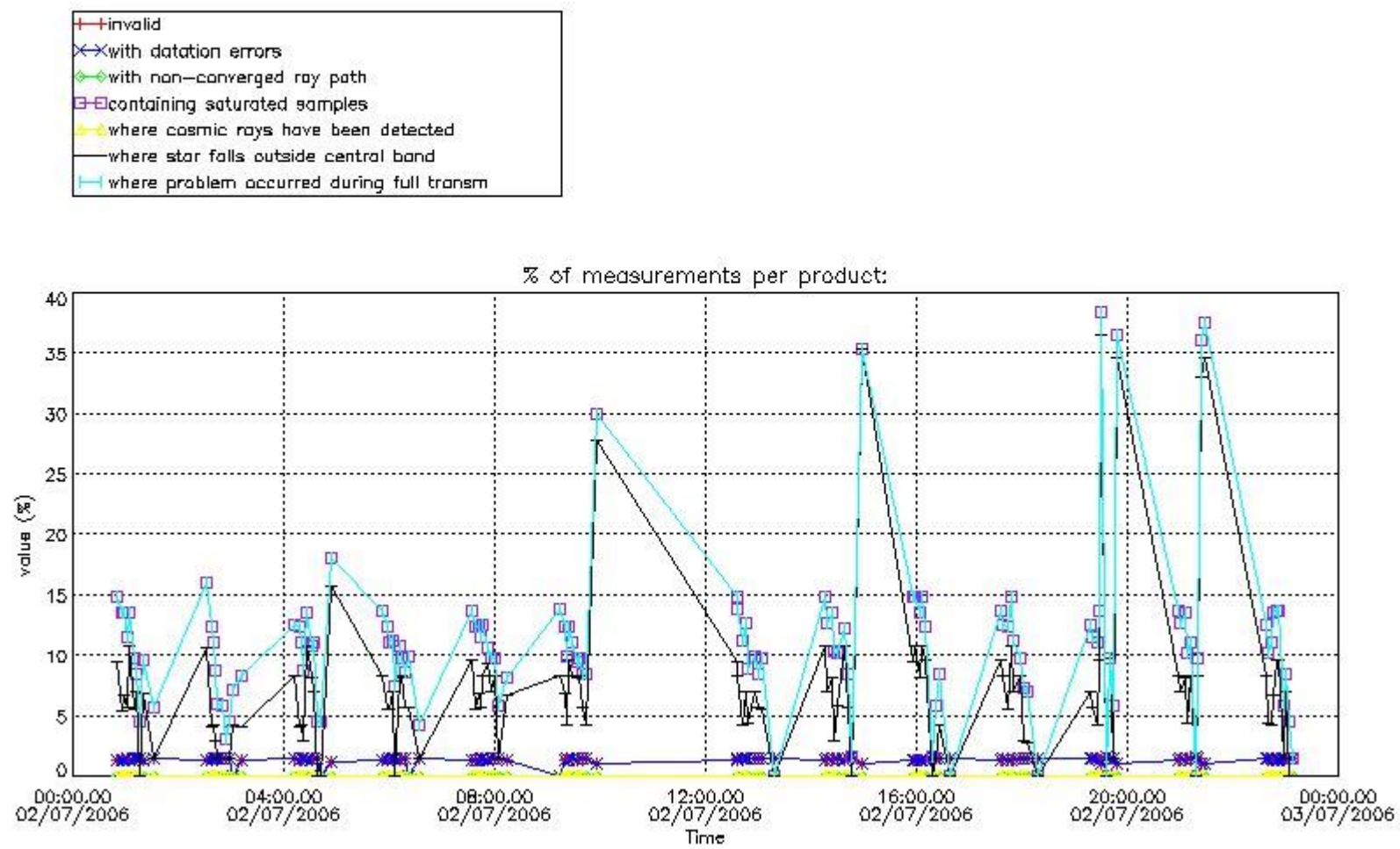
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

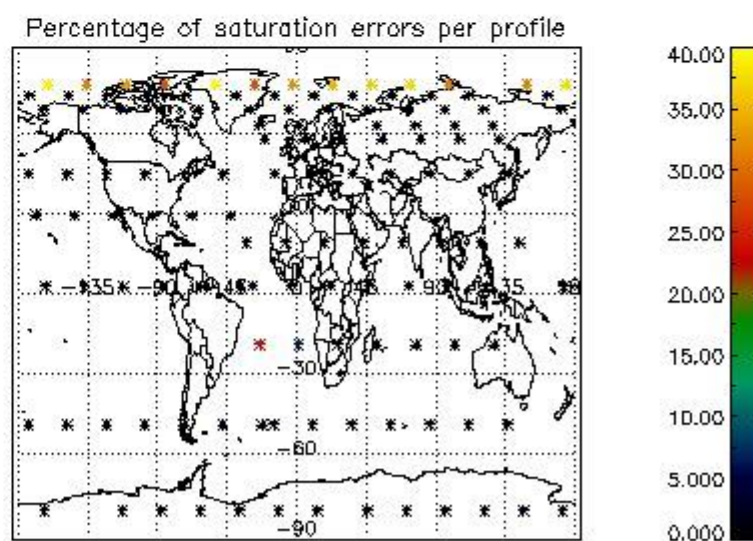
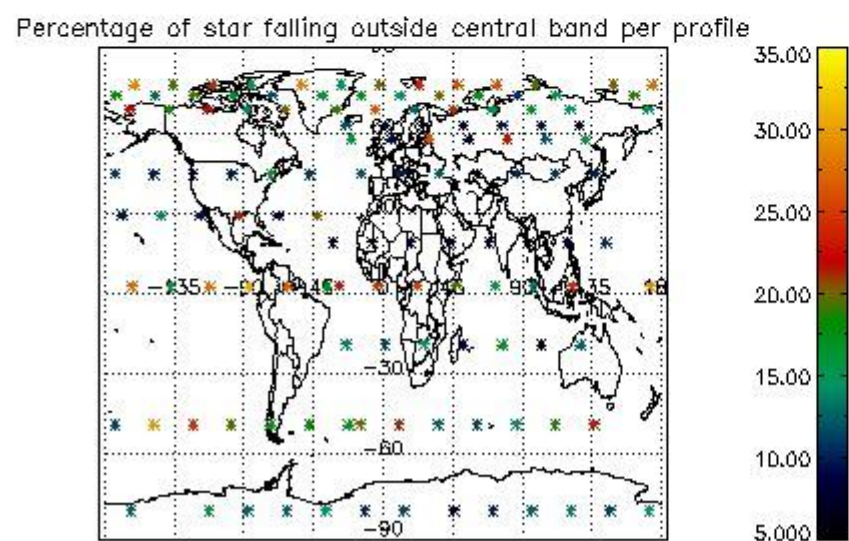
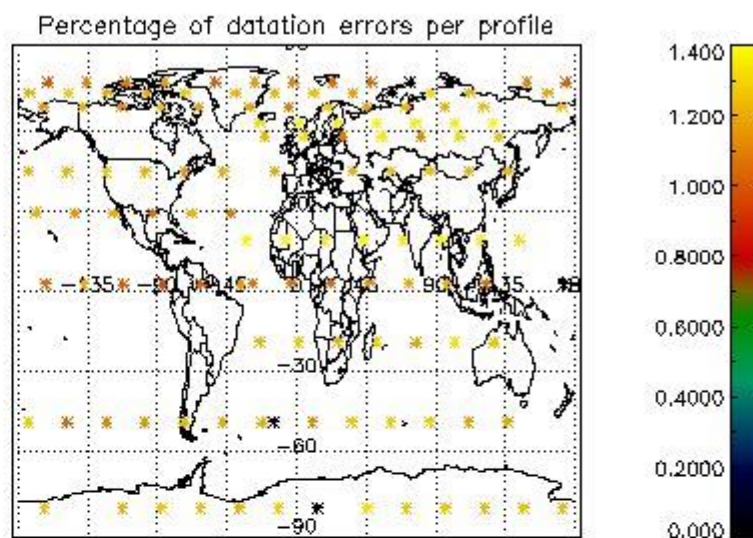
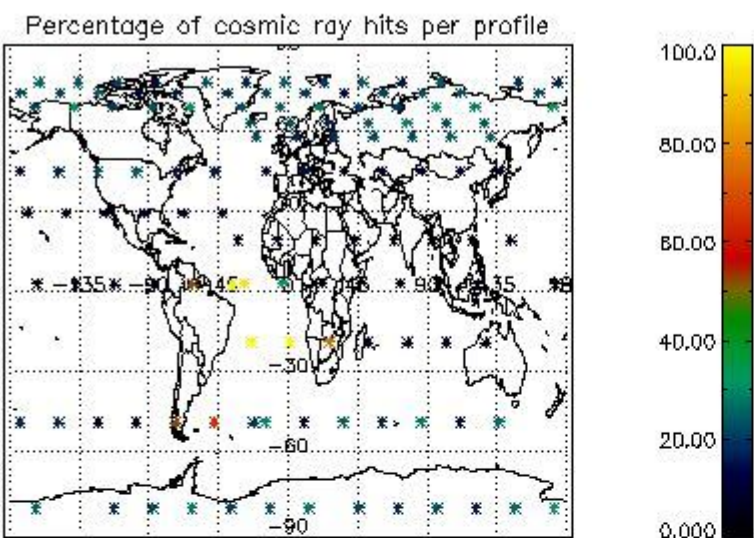


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

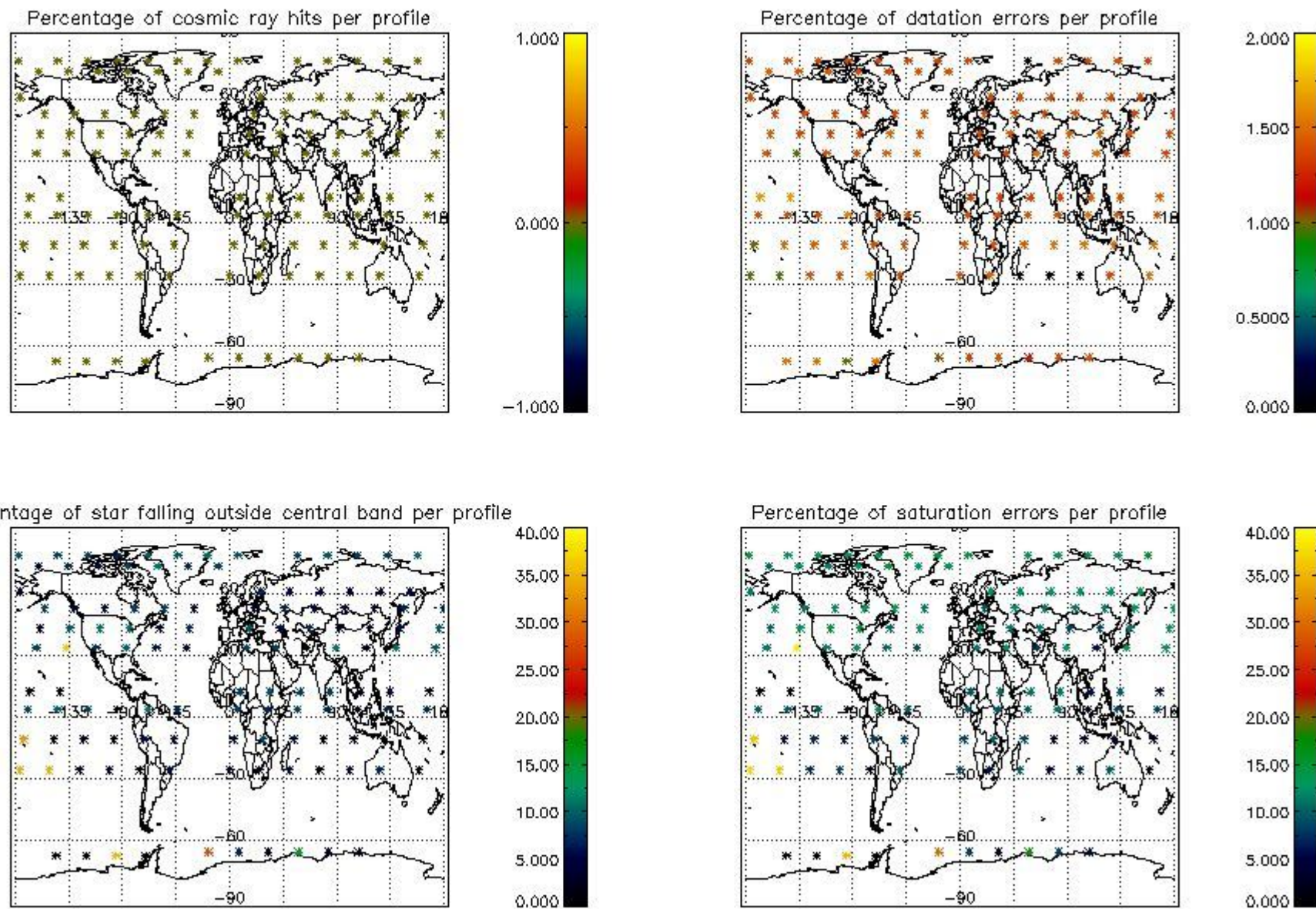


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

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

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

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

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

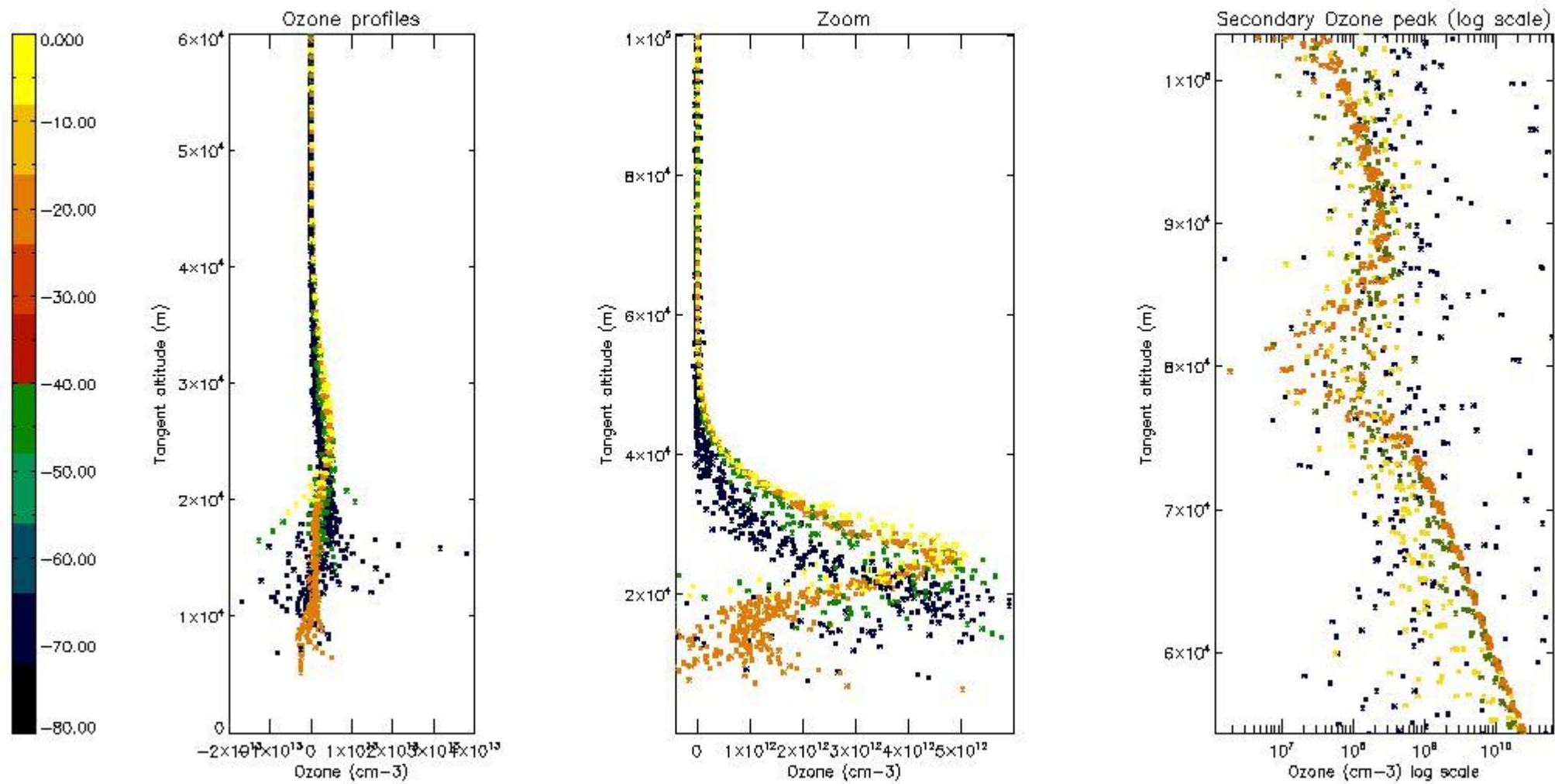
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	19
STD < 20	8

STD < 10	6
STD < 5	4

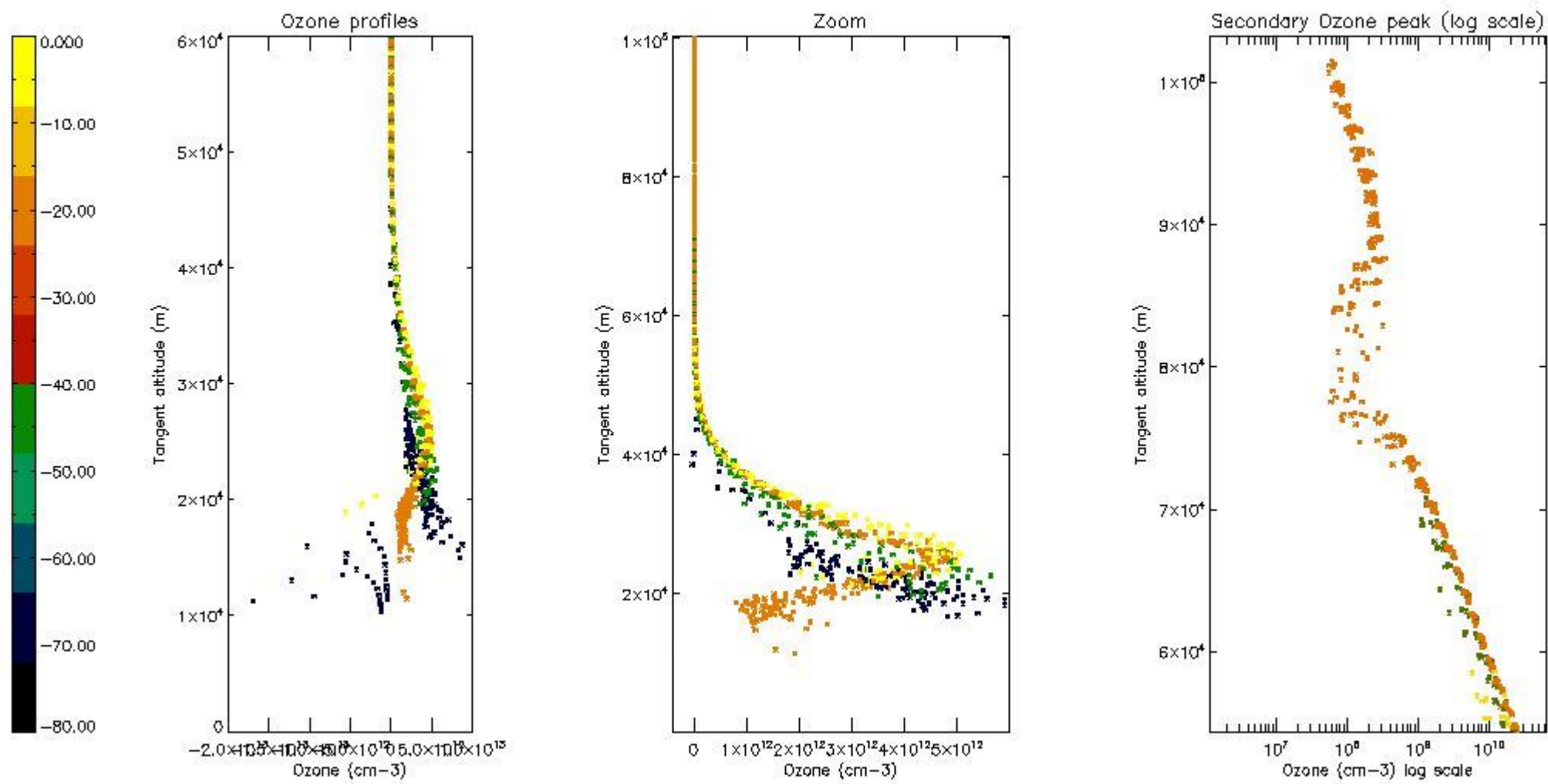
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



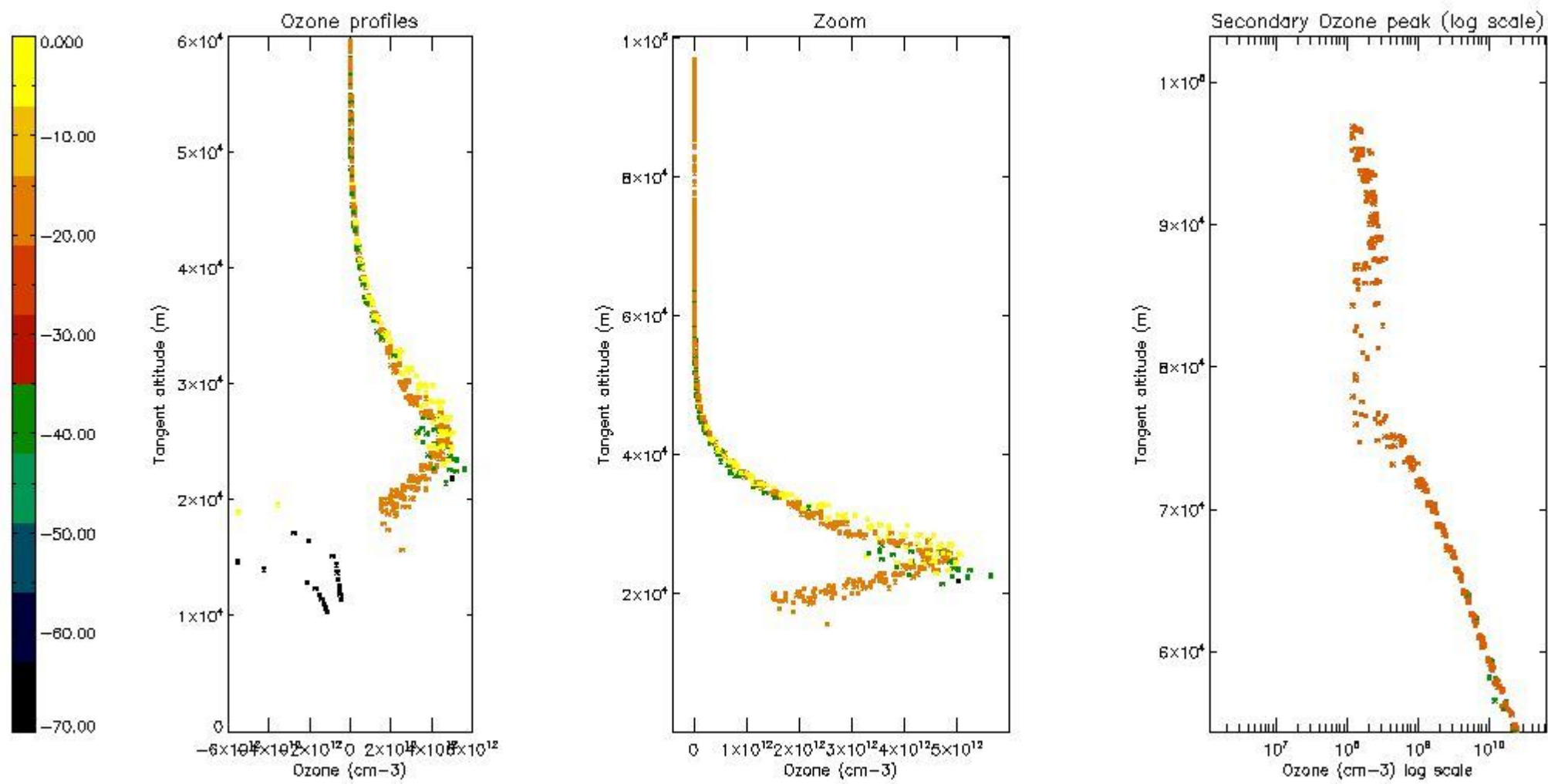
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



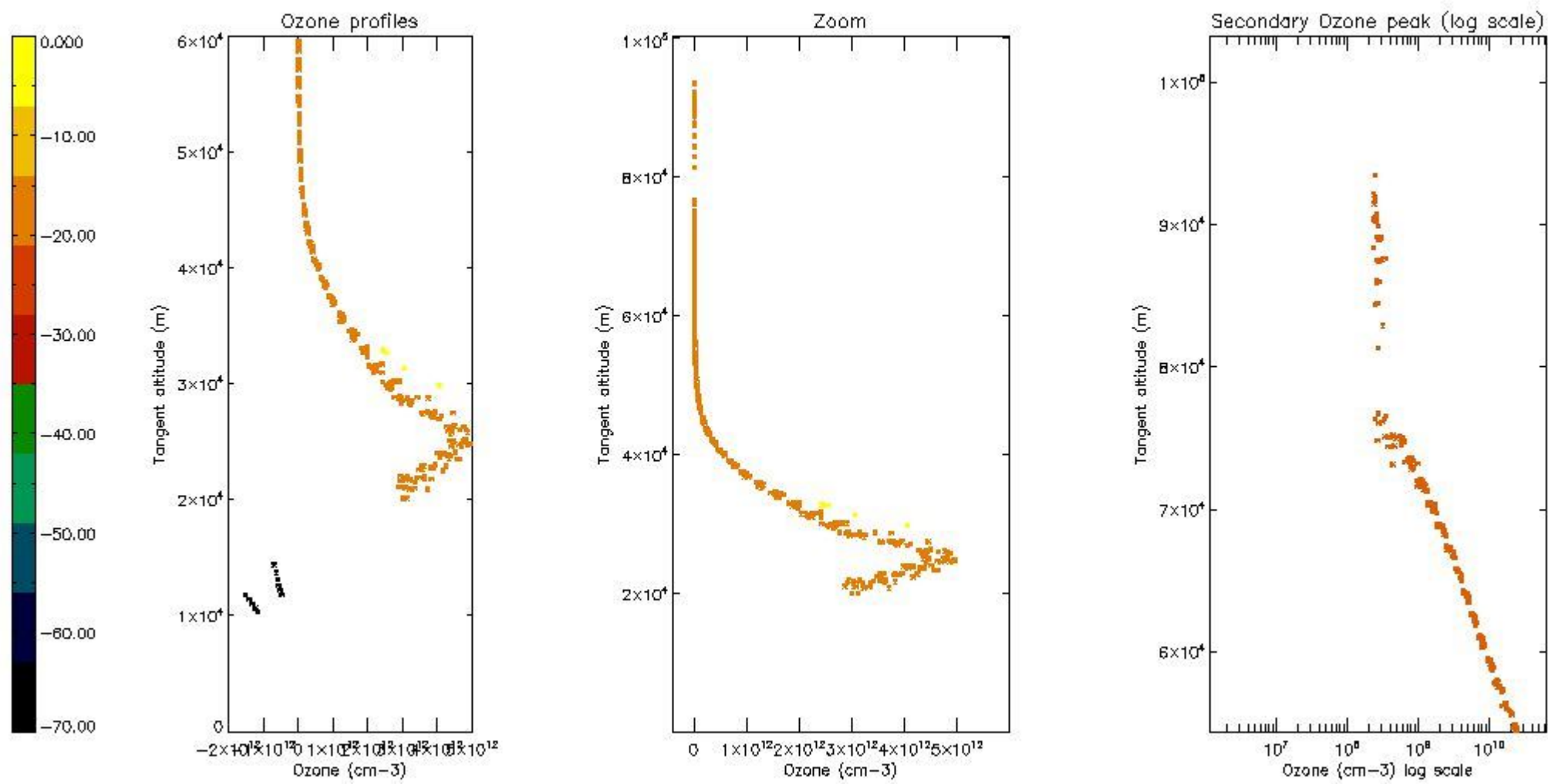
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



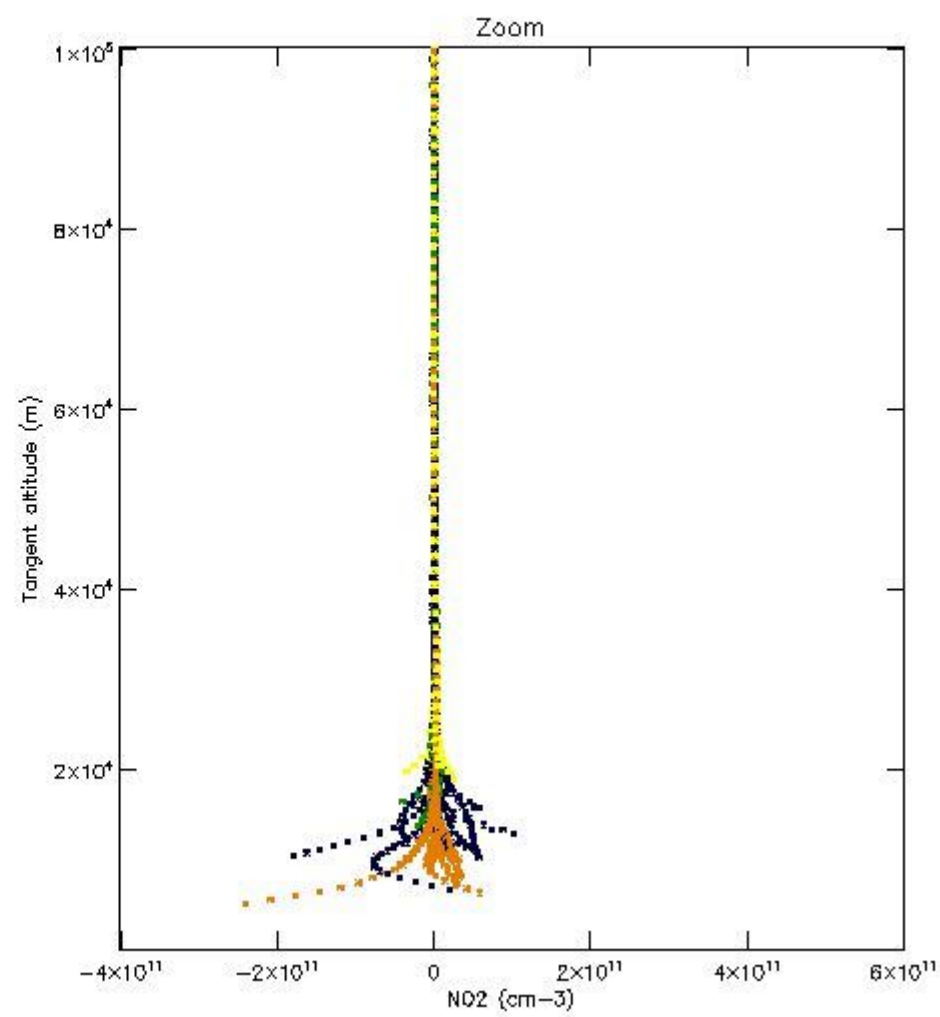
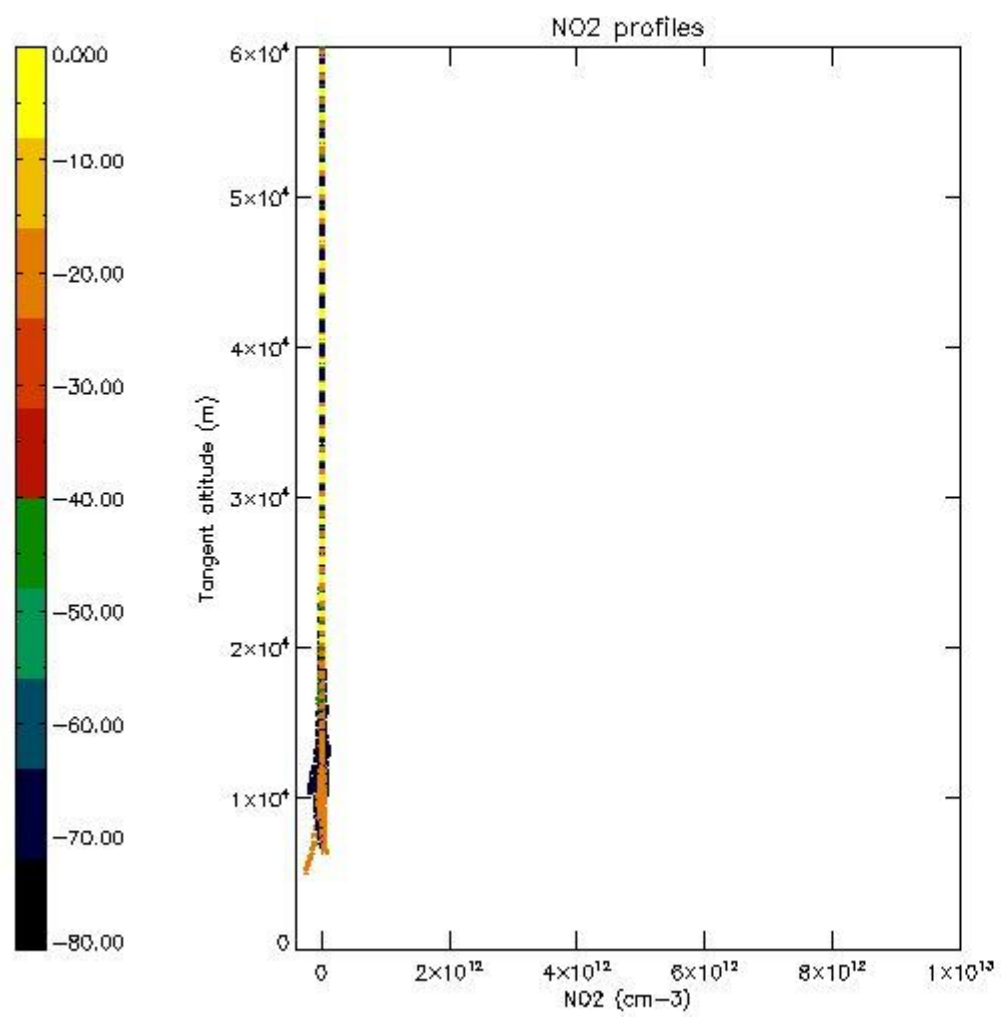
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



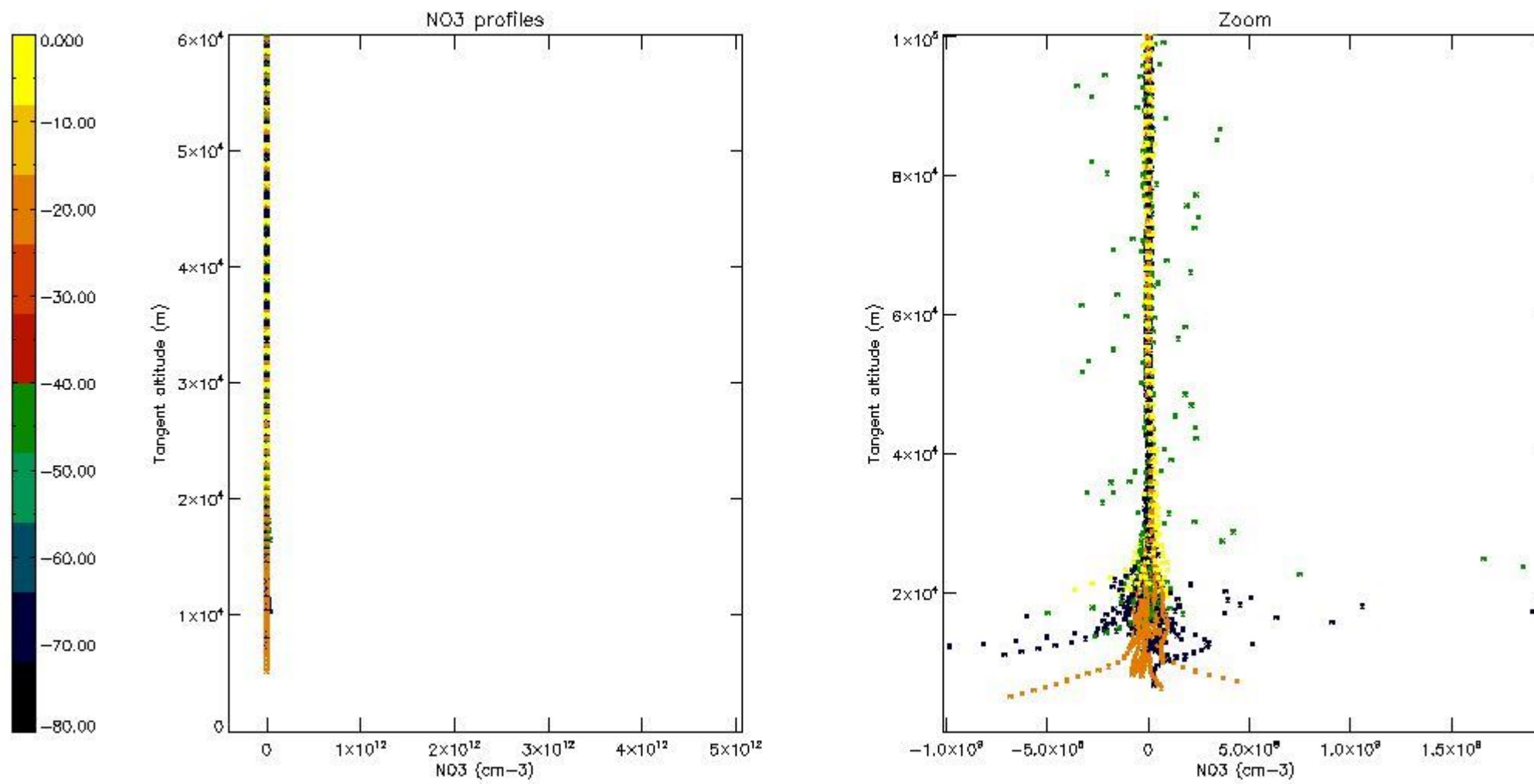
5.6 Plot NO₂ profiles for all STD (dark without errors)

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	02-JUL-2006 00:09:31
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	02-JUL-2006 00:09:31
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	02-JUL-2006 00:09:31

GOMOS Level 2 Daily Report

SUMMARY

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

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

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

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[4.2 Plot of level 1 quality information per product \(world map\)](#)

[4.2.1 Plot of level 1 quality information per product \(world map\): ASCENDING](#)

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

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

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

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

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

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

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

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

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

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

This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	24APR2013 00:58:16
Data source version	GOMOS/6.01
Start time of products	02-07-2006 (02JUL2006 00:00:00)
Stop time of products	03-07-2006 (03JUL2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	252
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

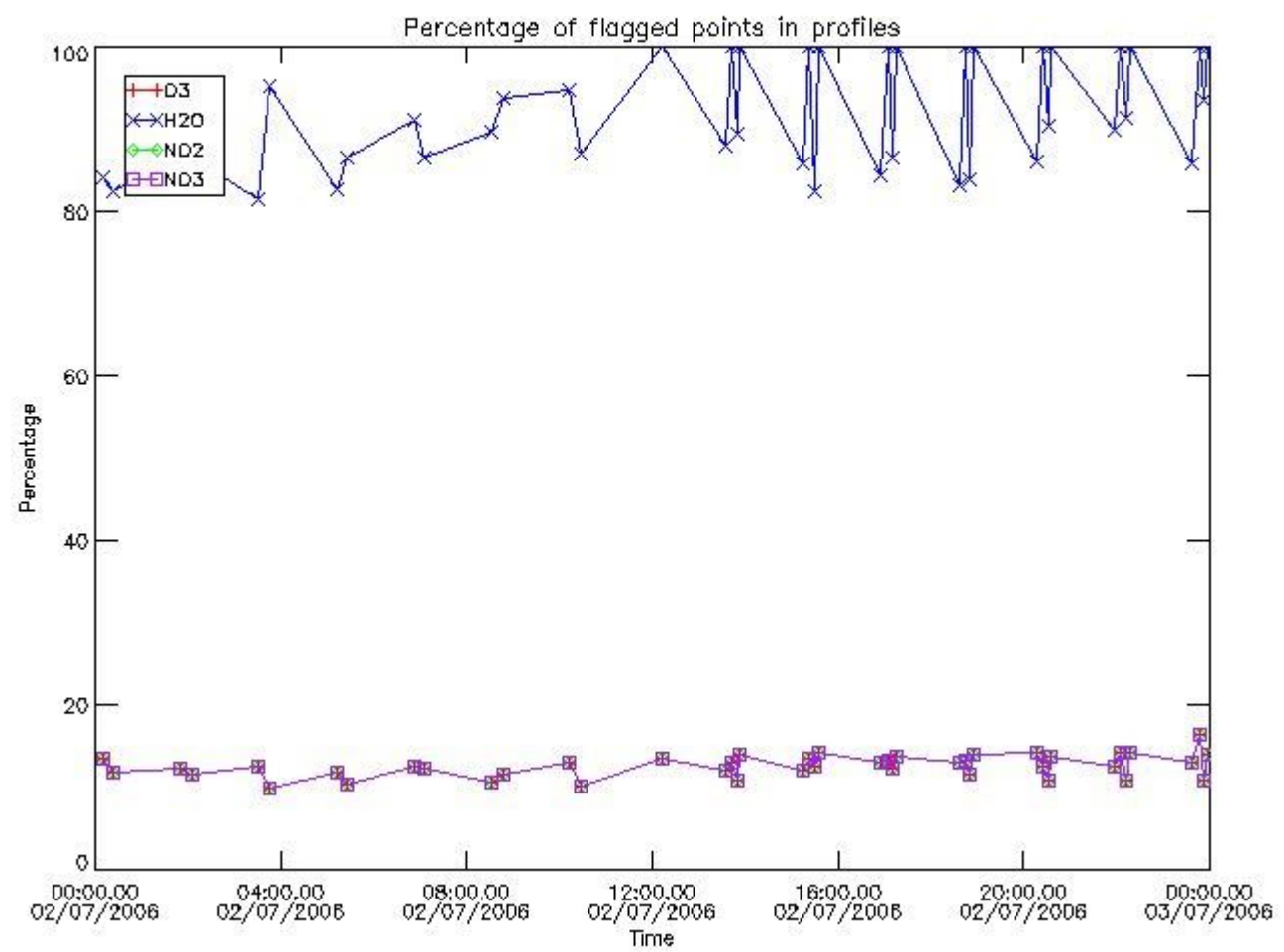
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060702_000931_000000422049_00073_22672_9650.N1	02-JUL-2006 00:09:31	Dark	41.500	165	34Gam Eri	2.9500	3200.0	83	22672	No
2	GOM_NL__2PRFIN20060702_002405_000000432049_00074_22673_9636.N1	02-JUL-2006 00:24:05	Dark	43.000	9	Alp Eri	0.45300	24000.	86	22673	No
3	GOM_NL__2PRFIN20060702_003134_000000472049_00074_22673_9637.N1	02-JUL-2006 00:31:34	Straylight	46.500	148	Alp Tuc	2.8780	4100.0	93	22673	No
4	GOM_NL__2PRFIN20060702_003554_000000412049_00074_22673_9638.N1	02-JUL-2006 00:35:54	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	22673	No
5	GOM_NL__2PRFIN20060702_004257_000000422049_00074_22673_9639.N1	02-JUL-2006 00:42:57	Twi_and_stray	42.000	40	The Sco	1.8590	7100.0	84	22673	No
6	GOM_NL__2PRFIN20060702_004436_000000392049_00074_22673_9640.N1	02-JUL-2006 00:44:36	Twi_and_stray	39.000	25	35Lam Sco	1.6200	28000.	78	22673	No
7	GOM_NL__2PRFIN20060702_004601_000000432049_00074_22673_9641.N1	02-JUL-2006 00:46:01	Bright	42.500	116	19Del Sgr	2.7000	4100.0	85	22673	No
8	GOM_NL__2PRFIN20060702_005048_000000372049_00074_22673_9642.N1	02-JUL-2006 00:50:48	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	22673	No
9	GOM_NL__2PRFIN20060702_005625_000000372049_00074_22673_9643.N1	02-JUL-2006 00:56:25	Bright	37.000	126	60Bet Oph	2.7700	4250.0	74	22673	No
10	GOM_NL__2PRFIN20060702_005845_000000372049_00074_22673_9644.N1	02-JUL-2006 00:58:45	Bright	37.000	59	55Alp Oph	2.0800	8900.0	74	22673	No
11	GOM_NL__2PRFIN20060702_010129_000000352049_00074_22673_9645.N1	02-JUL-2006 01:01:29	Bright	35.000	127	27Bet Her	2.7810	4700.0	70	22673	No
12	GOM_NL__2PRFIN20060702_010412_000000372049_00074_22673_9646.N1	02-JUL-2006 01:04:12	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	22673	No
13	GOM_NL__2PRFIN20060702_011010_000000362049_00074_22673_9647.N1	02-JUL-2006 01:10:10	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	22673	No
14	GOM_NL__2PRFIN20060702_011236_000000362049_00074_22673_9648.N1	02-JUL-2006 01:12:36	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	22673	No
15	GOM_NL__2PRFIN20060702_011636_000000342049_00074_22673_9649.N1	02-JUL-2006 01:16:36	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	22673	No
16	GOM_NL__2PRFIN20060702_012048_000000372049_00074_22673_9650.N1	02-JUL-2006 01:20:48	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	22673	No
17	GOM_NL__2PRFIN20060702_013214_000000362049_00074_22673_9651.N1	02-JUL-2006 01:32:14	Bright	35.500	35	33Alp Per	1.7950	6250.0	71	22673	No
18	GOM_NL__2PRFIN20060702_013944_000000392049_00074_22673_9652.N1	02-JUL-2006 01:39:44	Twilight	39.000	146	25Eta Tau	2.8730	15200.	78	22673	No
19	GOM_NL__2PRFIN20060702_015007_000000422049_00074_22673_9653.N1	02-JUL-2006 01:50:07	Dark	41.500	165	34Gam Eri	2.9500	3200.0	83	22673	No
20	GOM_NL__2PRFIN20060702_020441_000000492049_00075_22674_9588.N1	02-JUL-2006 02:04:41	Dark	48.500	9	Alp Eri	0.45300	24000.	97	22674	No
21	GOM_NL__2PRFIN20060702_021210_000000412049_00075_22674_9589.N1	02-JUL-2006 02:12:10	Straylight	41.000	148	Alp Tuc	2.8780	4100.0	82	22674	No
22	GOM_NL__2PRFIN20060702_021631_000000442049_00075_22674_9590.N1	02-JUL-2006 02:16:31	Straylight	43.500	45	Alp Pav	1.9400	26000.	87	22674	No
23	GOM_NL__2PRFIN20060702_022333_000000402049_00075_22674_9591.N1	02-JUL-2006 02:23:33	Twi_and_stray	39.500	40	The Sco	1.8590	7100.0	79	22674	No
24	GOM_NL__2PRFIN20060702_022512_000000412049_00075_22674_9592.N1	02-JUL-2006 02:25:12	Twi_and_stray	41.000	25	35Lam Sco	1.6200	28000.	82	22674	No
25	GOM_NL__2PRFIN20060702_022637_000000462049_00075_22674_9593.N1	02-JUL-2006 02:26:37	Bright	45.500	116	19Del Sgr	2.7000	4100.0	91	22674	No
26	GOM_NL__2PRFIN20060702_023124_000000382049_00075_22674_9594.N1	02-JUL-2006 02:31:24	Bright	37.500	86	35Eta Oph	2.4300	10200.	75	22674	No
27	GOM_NL__2PRFIN20060702_023701_000000372049_00075_22674_9595.N1	02-JUL-2006 02:37:01	Bright	36.500	126	60Bet Oph	2.7700	4250.0	73	22674	No
28	GOM_NL__2PRFIN20060702_023920_000000362049_00075_22674_9596.N1	02-JUL-2006 02:39:20	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	22674	No
29	GOM_NL__2PRFIN20060702_024205_000000352049_00075_22674_9597.N1	02-JUL-2006 02:42:05	Bright	34.500	127	27Bet Her	2.7810	4700.0	69	22674	No
30	GOM_NL__2PRFIN20060702_024448_000000342049_00075_22674_9598.N1	02-JUL-2006 02:44:48	Bright	33.500	133	40Zet Her	2.8070	6000.0	67	22674	No
31	GOM_NL__2PRFIN20060702_025046_000000352049_00075_22674_9599.N1	02-JUL-2006 02:50:46	Bright	34.500	130	23Bet Dra	2.7990	5800.0	69	22674	No
32	GOM_NL__2PRFIN20060702_025312_000000332049_00075_22674_9600.N1	02-JUL-2006 02:53:12	Bright	33.000	119	14Eta Dra	2.7270	4700.0	66	22674	No
33	GOM_NL__2PRFIN20060702_025712_000000332049_00075_22674_9601.N1	02-JUL-2006 02:57:12	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	22674	No
34	GOM_NL__2PRFIN20060702_030124_000000352049_00075_22674_9602.N1	02-JUL-2006 03:01:24	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	22674	No
35	GOM_NL__2PRFIN20060702_031250_000000372049_00075_22674_9603.N1	02-JUL-2006 03:12:50	Bright	36.500	35	33Alp Per	1.7950	6250.0	73	22674	No
36	GOM_NL__2PRFIN20060702_032021_000000392049_00075_22674_9604.N1	02-JUL-2006 03:20:21	Twilight	39.000	146	25Eta Tau	2.8730	15200.	78	22674	No
37	GOM_NL__2PRFIN20060702_033044_000000412049_00075_22674_9605.N1	02-JUL-2006 03:30:44	Dark	41.000	165	34Gam Eri	2.9500	3200.0	82	22674	No
38	GOM_NL__2PRFIN20060702_034518_000000522049_00076_22675_9608.N1	02-JUL-2006 03:45:18	Dark	51.500	9	Alp Eri	0.45300	24000.	103	22675	No
39	GOM_NL__2PRFIN20060702_035247_000000472049_00076_22675_9609.N1	02-JUL-2006 03:52:47	Straylight	47.000	148	Alp Tuc	2.8780	4100.0	94	22675	No
40	GOM_NL__2PRFIN20060702_035707_000000412049_00076_22675_9610.N1	02-JUL-2006 03:57:07	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	22675	No
41	GOM_NL__2PRFIN20060702_040409_000000442049_00076_22675_9611.N1	02-JUL-2006 04:04:09	Twi_and_stray	43.500	40	The Sco	1.8590	7100.0	87	22675	No
42	GOM_NL__2PRFIN20060702_040549_000000422049_00076_22675_9612.N1	02-JUL-2006 04:05:49	Twi_and_stray	41.500	25	35Lam Sco	1.6200	28000.	83	22675	No

220	GOM_NL_2PRFIN20060702_210555_000000372049_00086_22685_9638.N1	02-JUL-2006 21:05:55	Bright	37.000	59	55Alp Oph	2.0800	8900.0	74	22685	No
221	GOM_NL_2PRFIN20060702_210842_000000352049_00086_22685_9639.N1	02-JUL-2006 21:08:42	Bright	34.500	127	27Bet Her	2.7810	4700.0	69	22685	No
222	GOM_NL_2PRFIN20060702_211124_000000362049_00086_22685_9640.N1	02-JUL-2006 21:11:24	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	22685	No
223	GOM_NL_2PRFIN20060702_211720_000000302049_00086_22685_9641.N1	02-JUL-2006 21:17:20	Bright	30.000	130	23Bet Dra	2.7990	5800.0	60	22685	No
224	GOM_NL_2PRFIN20060702_211948_000000362049_00086_22685_9642.N1	02-JUL-2006 21:19:48	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	22685	No
225	GOM_NL_2PRFIN20060702_212349_000000502049_00086_22685_9643.N1	02-JUL-2006 21:23:49	Bright	50.000	60	7Bet UMi	2.0810	3950.0	100	22685	No
226	GOM_NL_2PRFIN20060702_212759_000000522049_00086_22685_9644.N1	02-JUL-2006 21:27:59	Bright	52.000	49	1Alp UMi	1.9900	6300.0	104	22685	No
227	GOM_NL_2PRFIN20060702_214658_000000402049_00086_22685_9645.N1	02-JUL-2006 21:46:58	Twilight	39.500	146	25Eta Tau	2.8730	15200.	79	22685	No
228	GOM_NL_2PRFIN20060702_215722_000000452049_00086_22685_9646.N1	02-JUL-2006 21:57:22	Dark	44.500	165	34Gam Eri	2.9500	3200.0	89	22685	No
229	GOM_NL_2PRFIN20060702_220550_000000402049_00086_22685_9647.N1	02-JUL-2006 22:05:50	Dark	39.500	157	The1Eri	2.9060	9300.0	79	22685	No
230	GOM_NL_2PRFIN20060702_221159_000000472049_00087_22686_9628.N1	02-JUL-2006 22:11:59	Dark	47.000	9	Alp Eri	0.45300	24000.	94	22686	No
231	GOM_NL_2PRFIN20060702_221632_000000362049_00087_22686_9629.N1	02-JUL-2006 22:16:32	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	22686	No
232	GOM_NL_2PRFIN20060702_222348_000000422049_00087_22686_9630.N1	02-JUL-2006 22:23:48	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	22686	No
233	GOM_NL_2PRFIN20060702_222730_000000412049_00087_22686_9631.N1	02-JUL-2006 22:27:30	Straylight	40.500	141	Bet Ara	2.8400	4600.0	81	22686	No
234	GOM_NL_2PRFIN20060702_222858_000000382049_00087_22686_9632.N1	02-JUL-2006 22:28:58	Twi_and_stray	38.000	147	Alp Ara	2.8770	26000.	76	22686	No
235	GOM_NL_2PRFIN20060702_223047_000000422049_00087_22686_9633.N1	02-JUL-2006 22:30:47	Twi_and_stray	42.000	40	The Sco	1.8590	7100.0	84	22686	No
236	GOM_NL_2PRFIN20060702_223226_000000412049_00087_22686_9634.N1	02-JUL-2006 22:32:26	Twi_and_stray	40.500	25	35Lam Sco	1.6200	28000.	81	22686	No
237	GOM_NL_2PRFIN20060702_223352_000000502049_00087_22686_9635.N1	02-JUL-2006 22:33:52	Bright	49.500	116	19Del Sgr	2.7000	4100.0	99	22686	No
238	GOM_NL_2PRFIN20060702_223837_000000362049_00087_22686_9636.N1	02-JUL-2006 22:38:37	Bright	36.000	86	35Eta Oph	2.4300	10200.	72	22686	No
239	GOM_NL_2PRFIN20060702_224023_000000352049_00087_22686_9637.N1	02-JUL-2006 22:40:23	Bright	34.500	98	13Zet Oph	2.5710	30000.	69	22686	No
240	GOM_NL_2PRFIN20060702_224412_000000362049_00087_22686_9638.N1	02-JUL-2006 22:44:12	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	22686	No
241	GOM_NL_2PRFIN20060702_224631_000000372049_00087_22686_9639.N1	02-JUL-2006 22:46:31	Bright	37.000	59	55Alp Oph	2.0800	8900.0	74	22686	No
242	GOM_NL_2PRFIN20060702_224918_000000372049_00087_22686_9640.N1	02-JUL-2006 22:49:18	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	22686	No
243	GOM_NL_2PRFIN20060702_225200_000000372049_00087_22686_9641.N1	02-JUL-2006 22:52:00	Bright	36.500	133	40Zet Her	2.8070	6000.0	73	22686	No
244	GOM_NL_2PRFIN20060702_225756_000000352049_00087_22686_9642.N1	02-JUL-2006 22:57:56	Bright	34.500	130	23Bet Dra	2.7990	5800.0	69	22686	No
245	GOM_NL_2PRFIN20060702_230024_000000362049_00087_22686_9643.N1	02-JUL-2006 23:00:24	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	22686	No
246	GOM_NL_2PRFIN20060702_230425_000000342049_00087_22686_9644.N1	02-JUL-2006 23:04:25	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	22686	No
247	GOM_NL_2PRFIN20060702_230835_000000332049_00087_22686_9645.N1	02-JUL-2006 23:08:35	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	22686	No
248	GOM_NL_2PRFIN20060702_232734_000000382049_00087_22686_9646.N1	02-JUL-2006 23:27:34	Twilight	38.000	146	25Eta Tau	2.8730	15200.	76	22686	No
249	GOM_NL_2PRFIN20060702_233758_000000432049_00087_22686_9647.N1	02-JUL-2006 23:37:58	Dark	42.500	165	34Gam Eri	2.9500	3200.0	85	22686	No
250	GOM_NL_2PRFIN20060702_234626_000000412049_00087_22686_9648.N1	02-JUL-2006 23:46:26	Dark	40.500	157	The1Eri	2.9060	9300.0	81	22686	No
251	GOM_NL_2PRFIN20060702_235235_000000472049_00088_22687_9628.N1	02-JUL-2006 23:52:35	Dark	46.500	9	Alp Eri	0.45300	24000.	93	22687	No
252	GOM_NL_2PRFIN20060702_235708_000000372049_00088_22687_9629.N1	02-JUL-2006 23:57:08	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	22687	No

3. Quality information per product

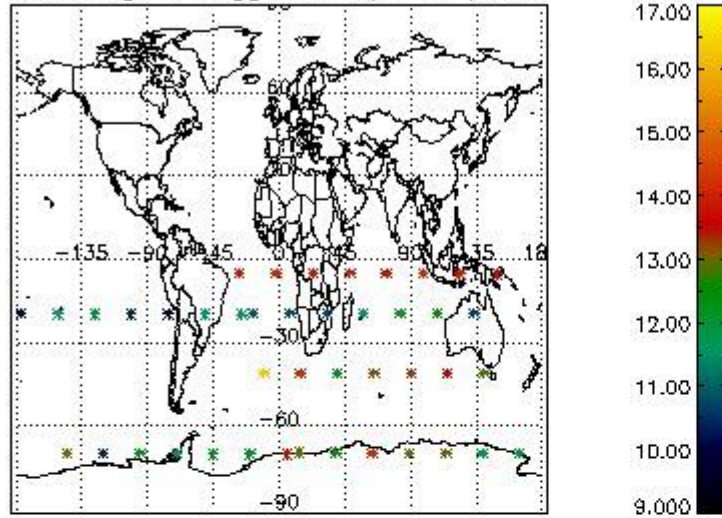
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

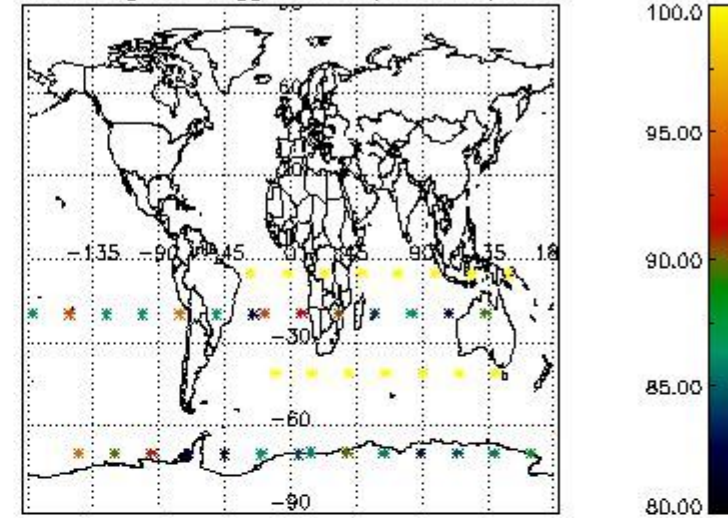


3.2 Plot quality information per product (world map)

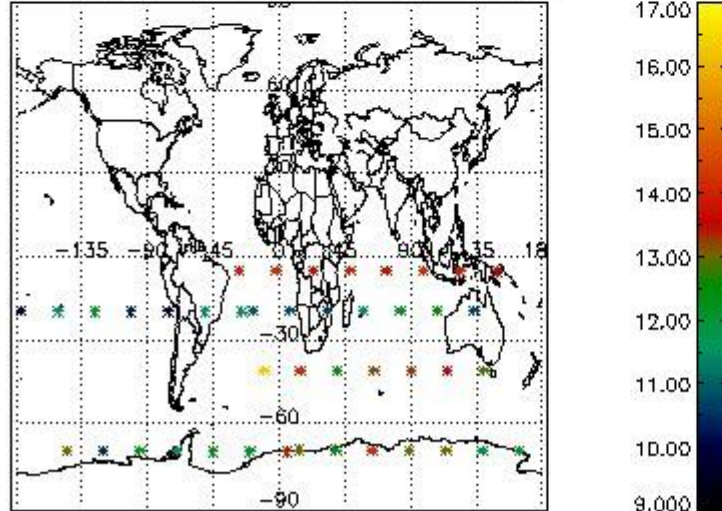
Percentage of flagged data per O3 profile



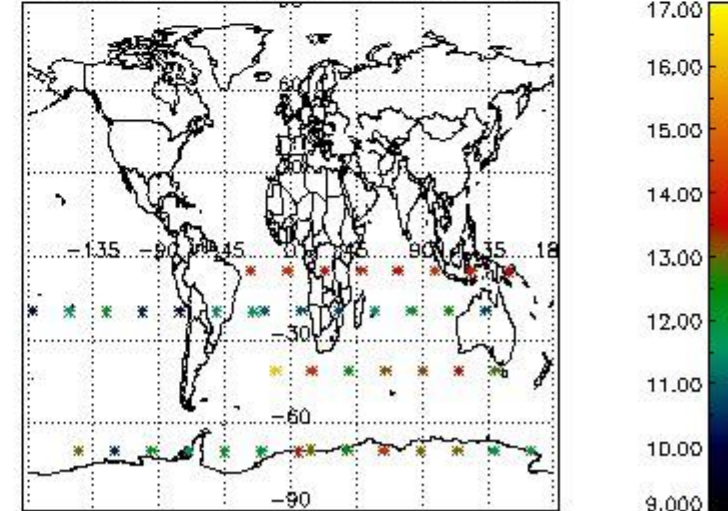
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

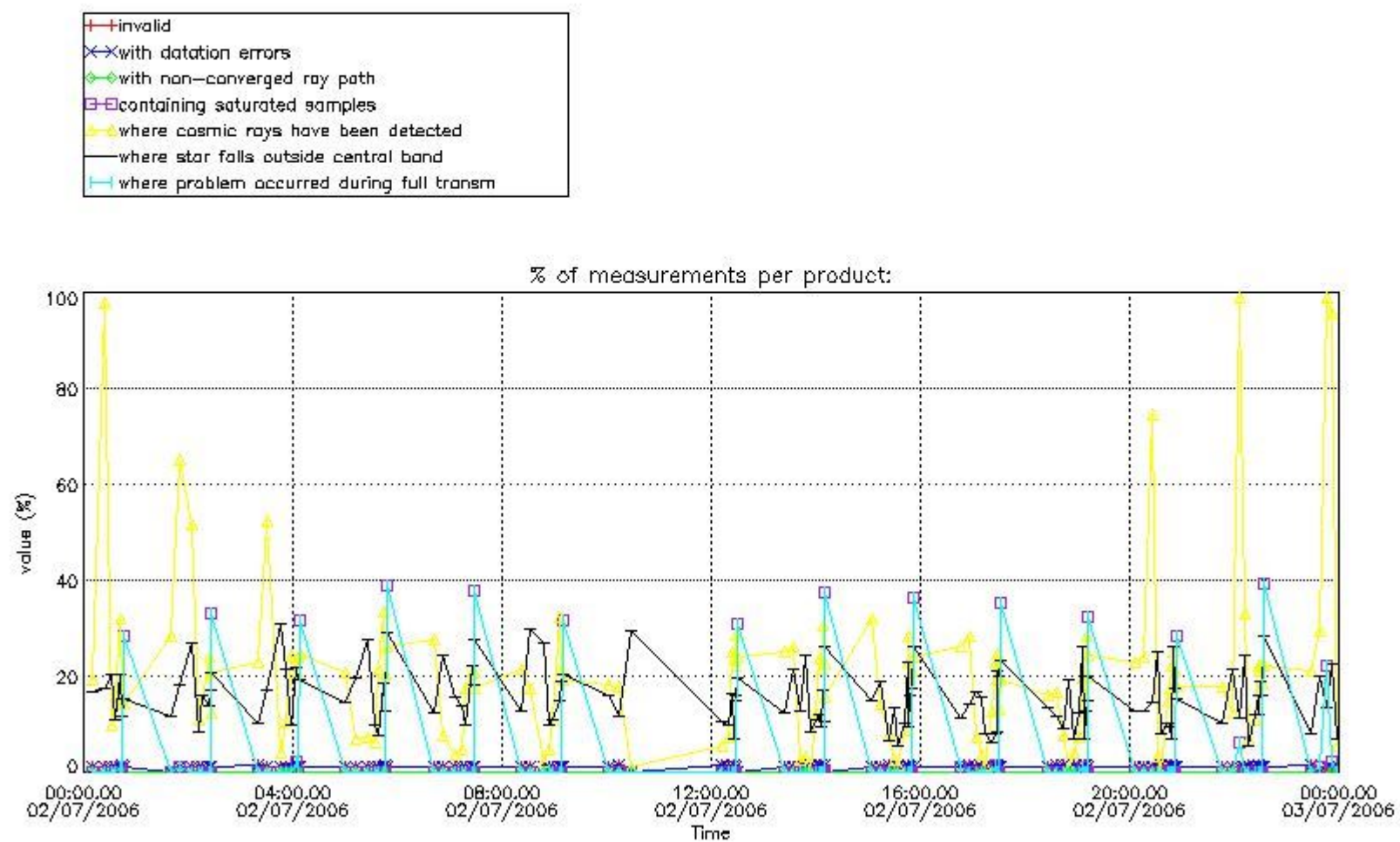


4. Level 1 quality information per product

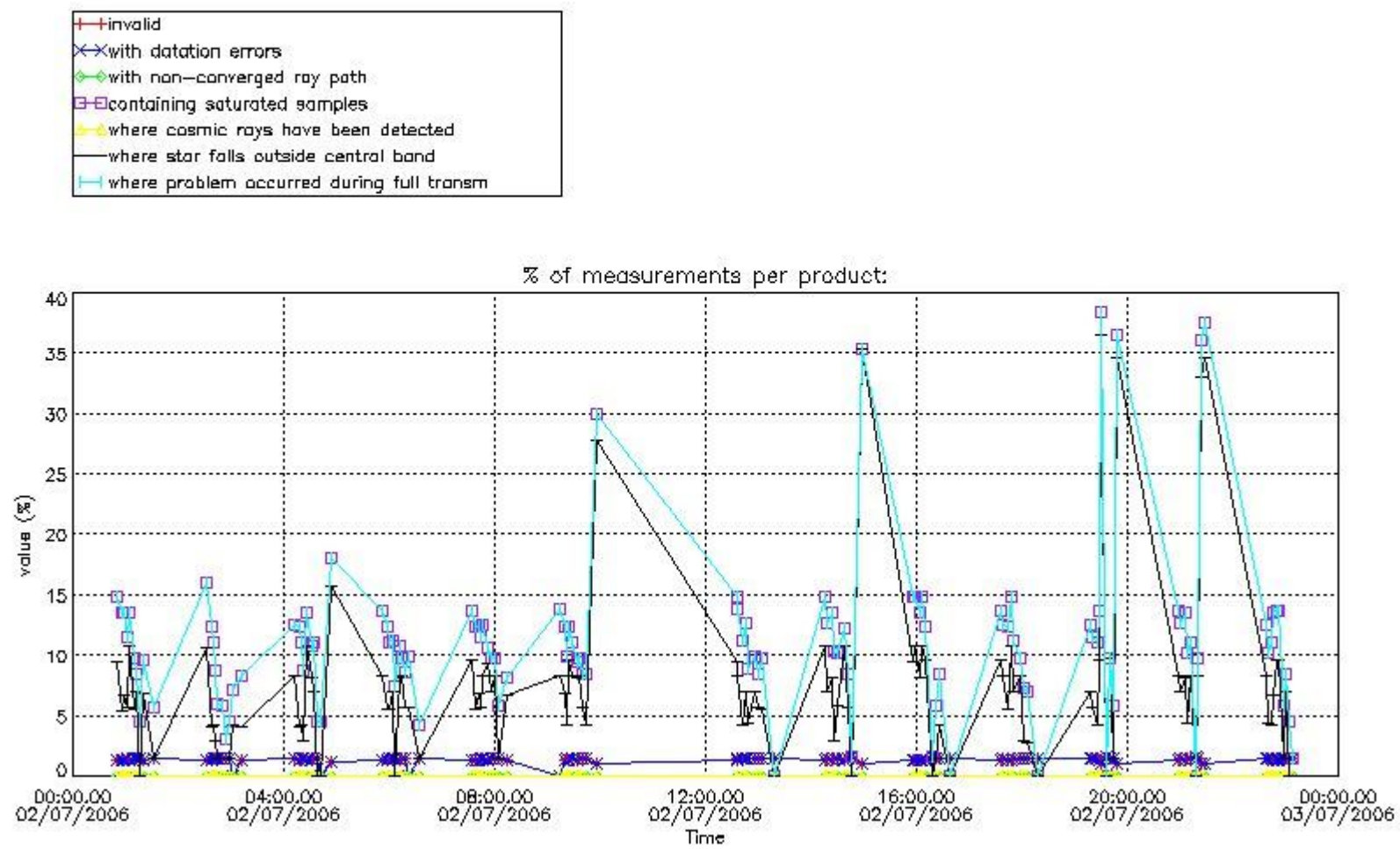
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

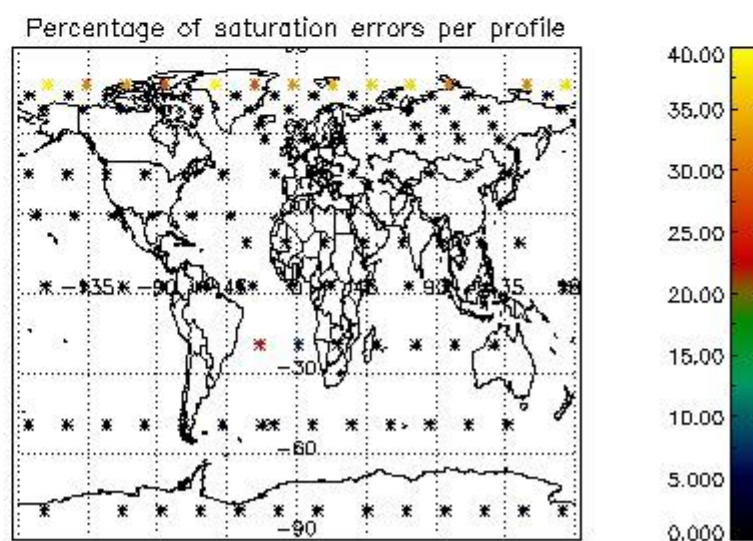
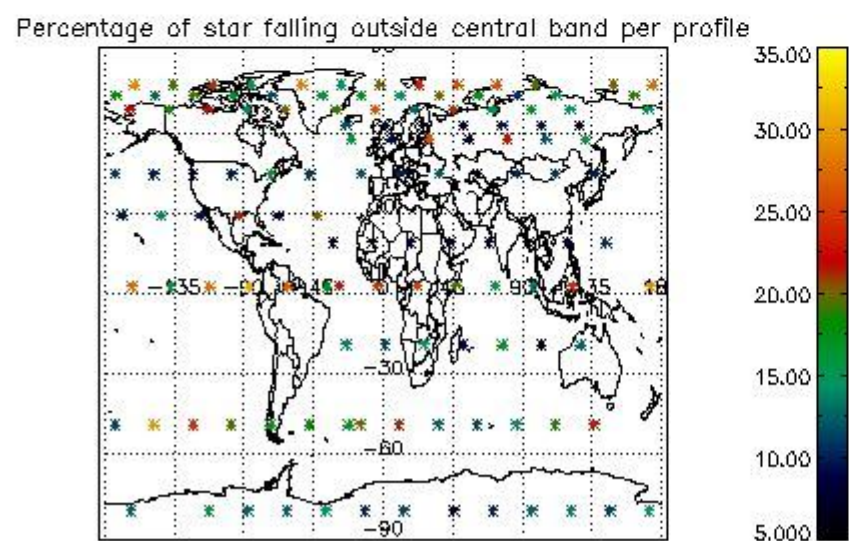
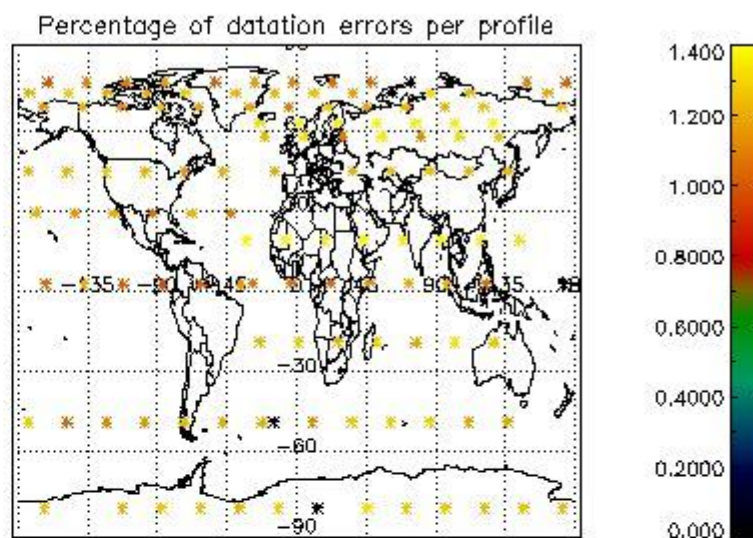
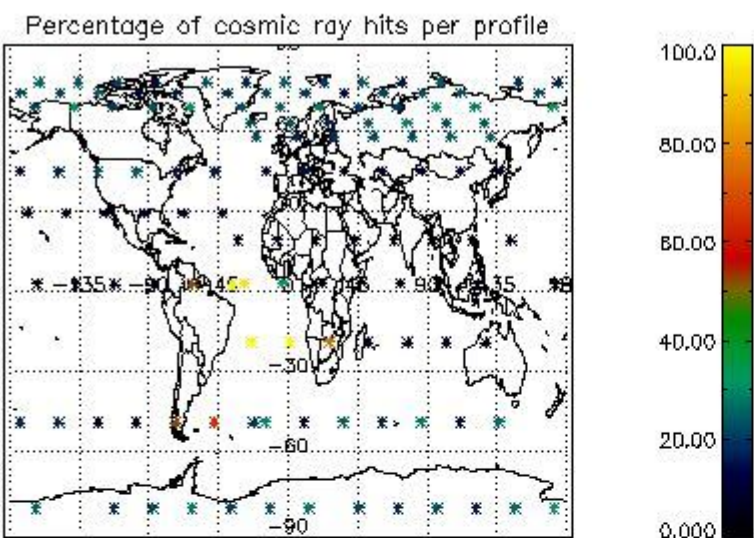


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

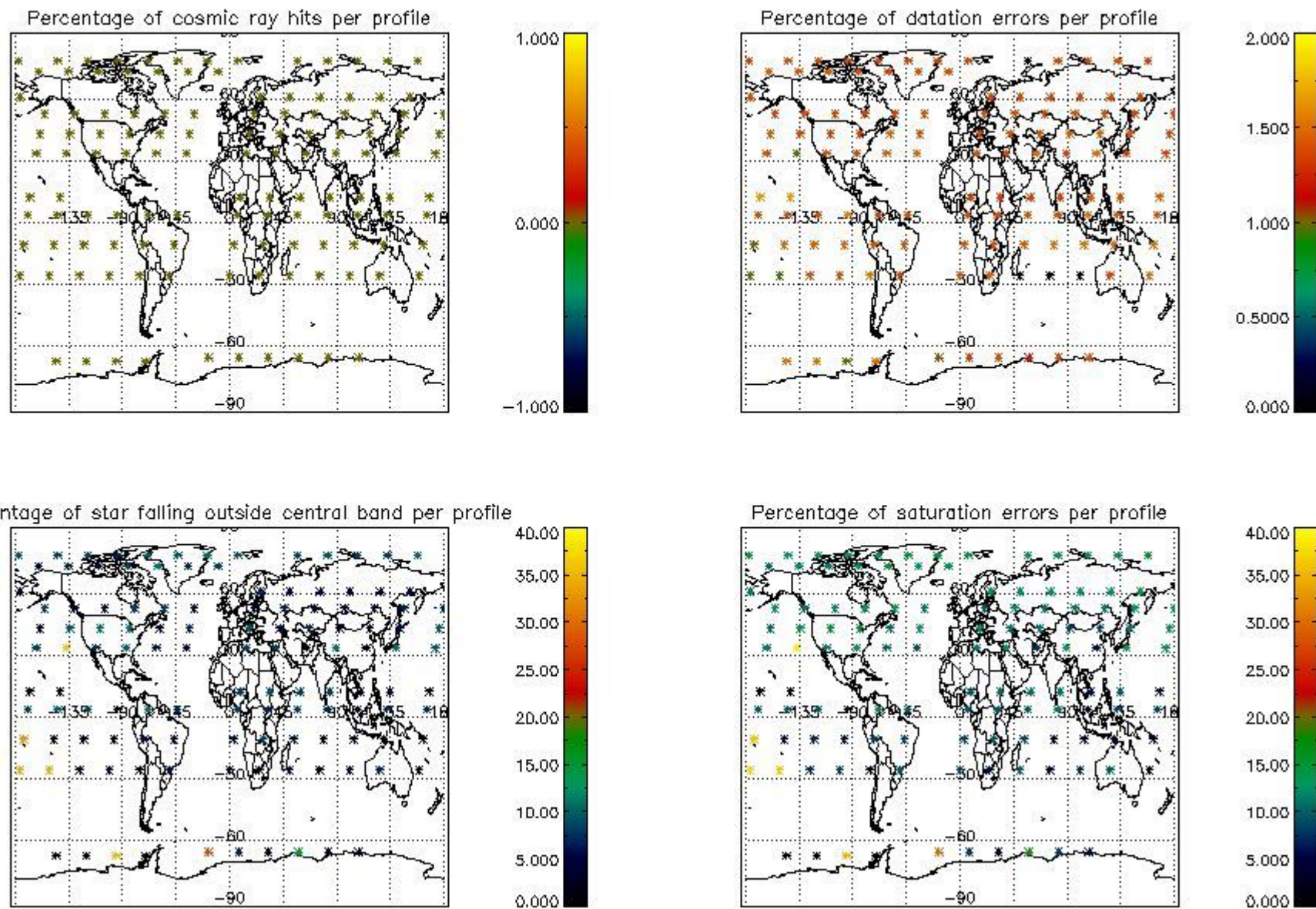


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

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

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

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

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

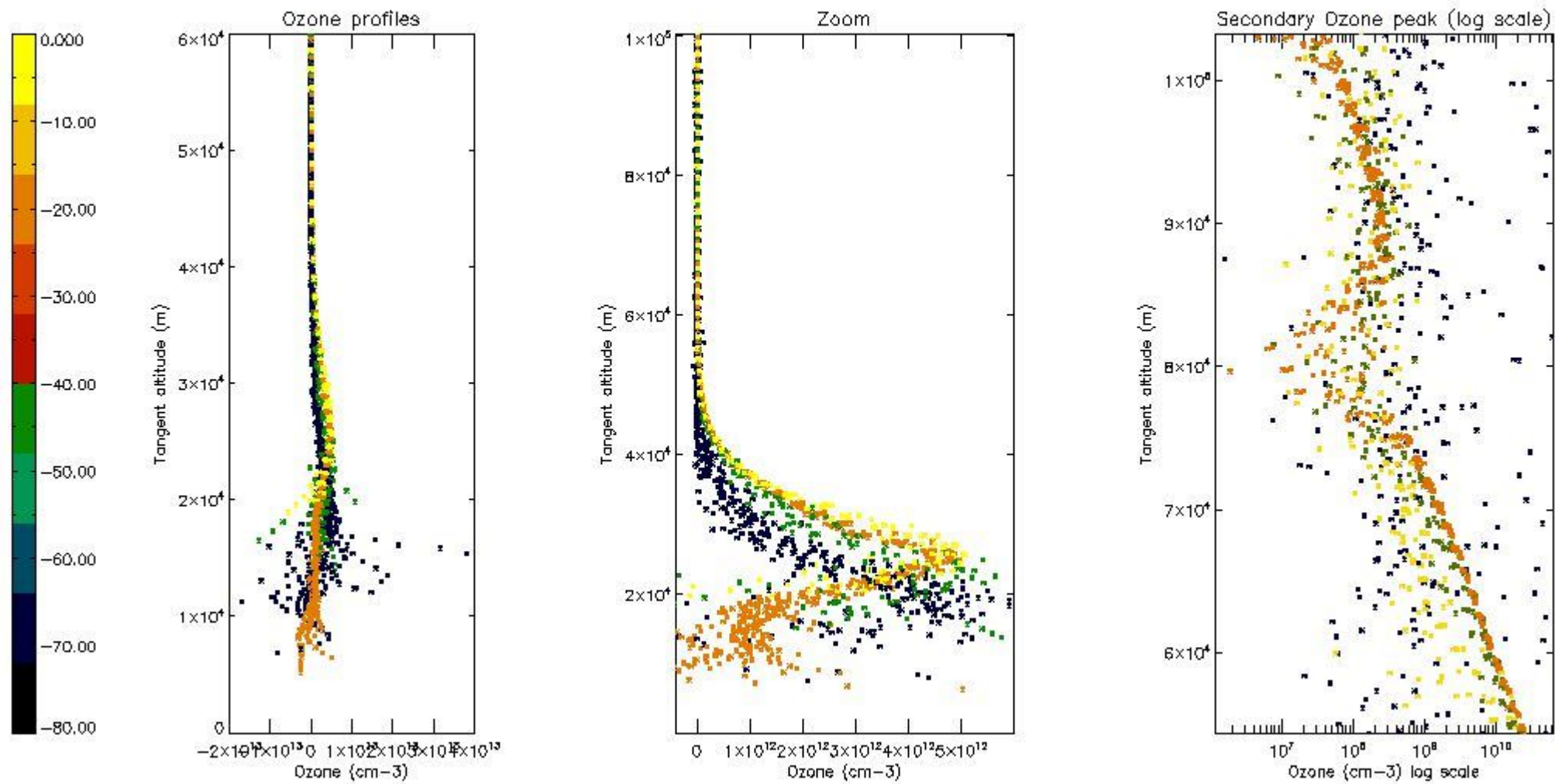
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	19
STD < 20	8

STD < 10	6
STD < 5	4

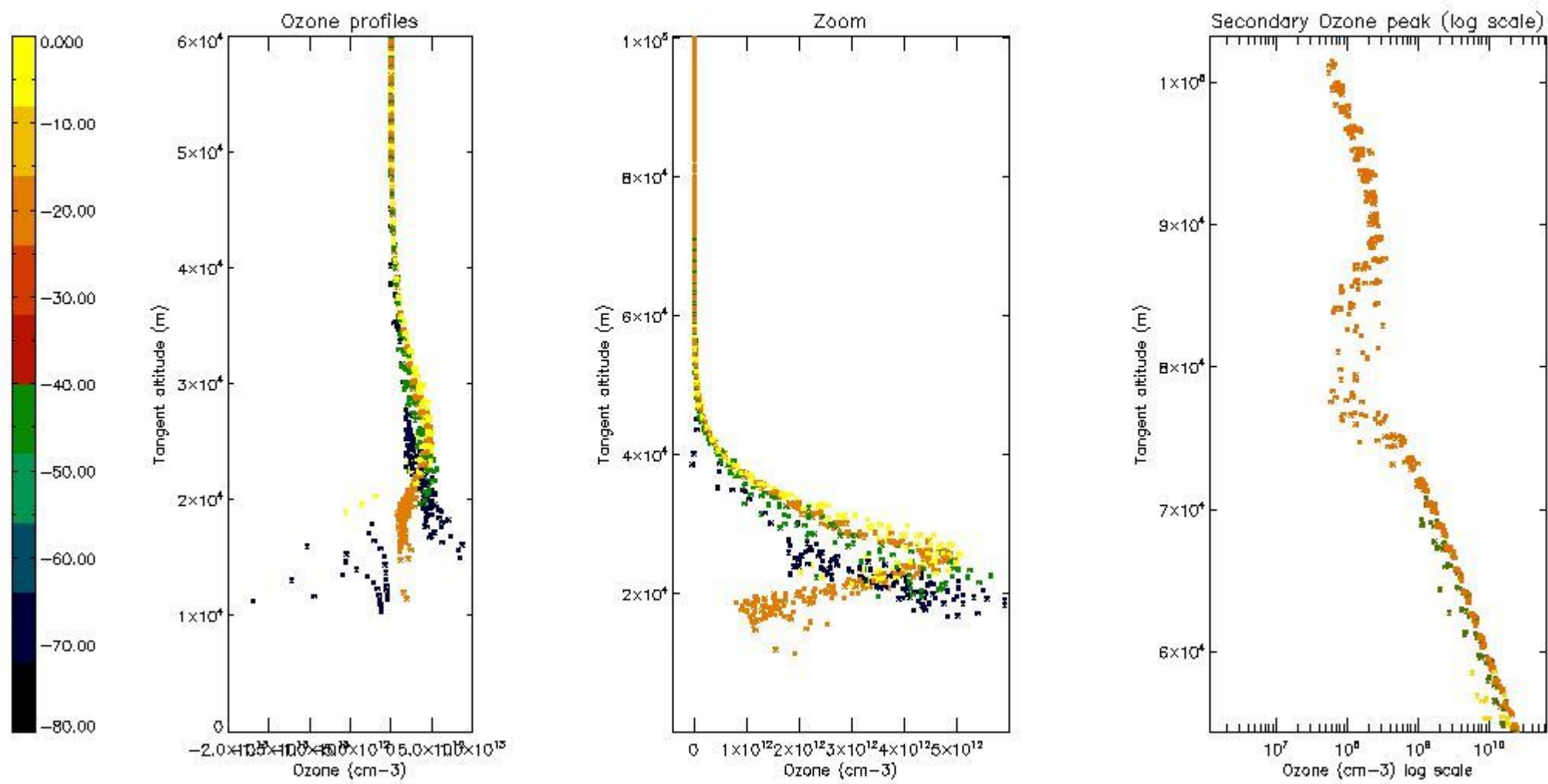
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



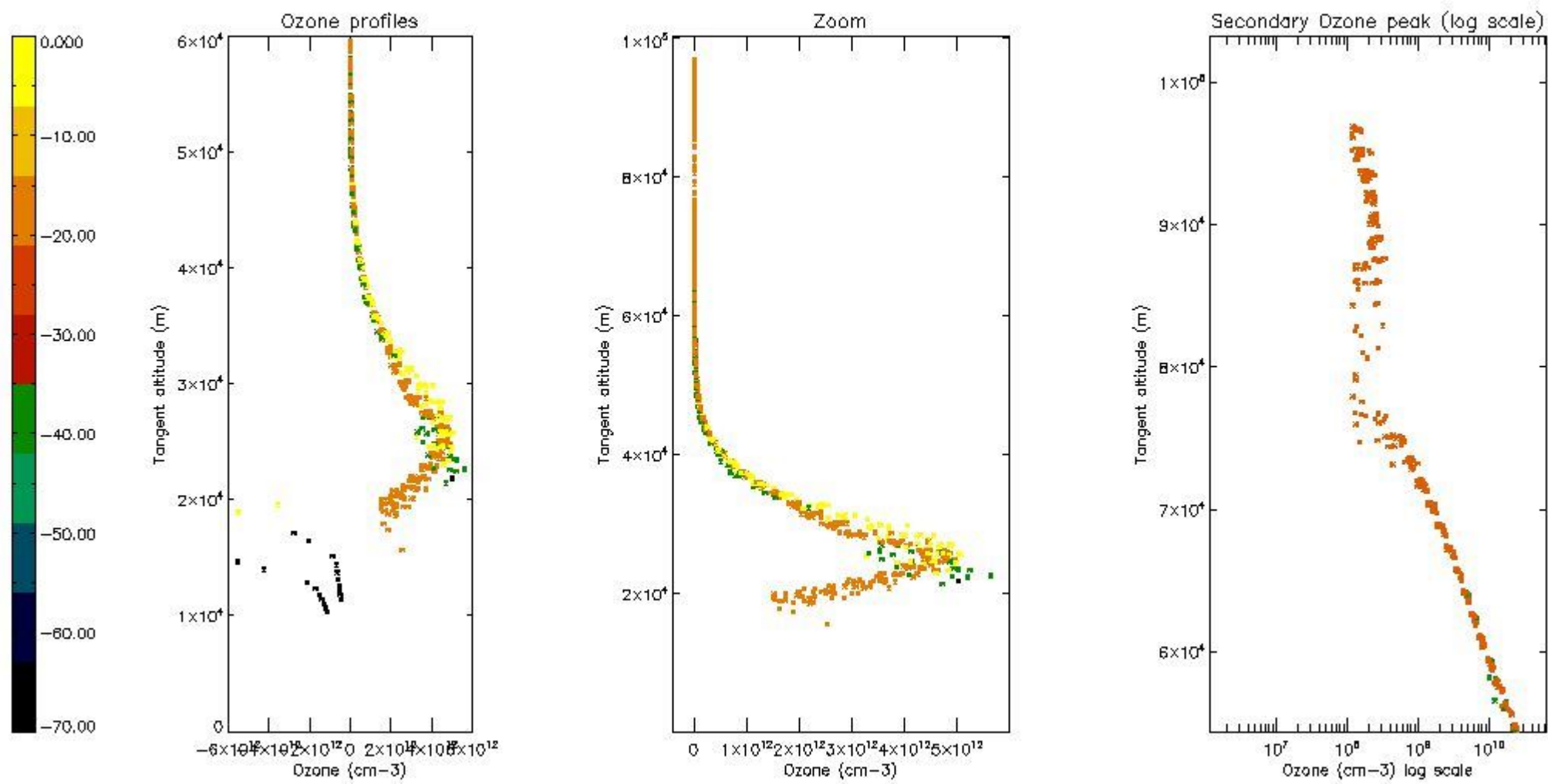
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



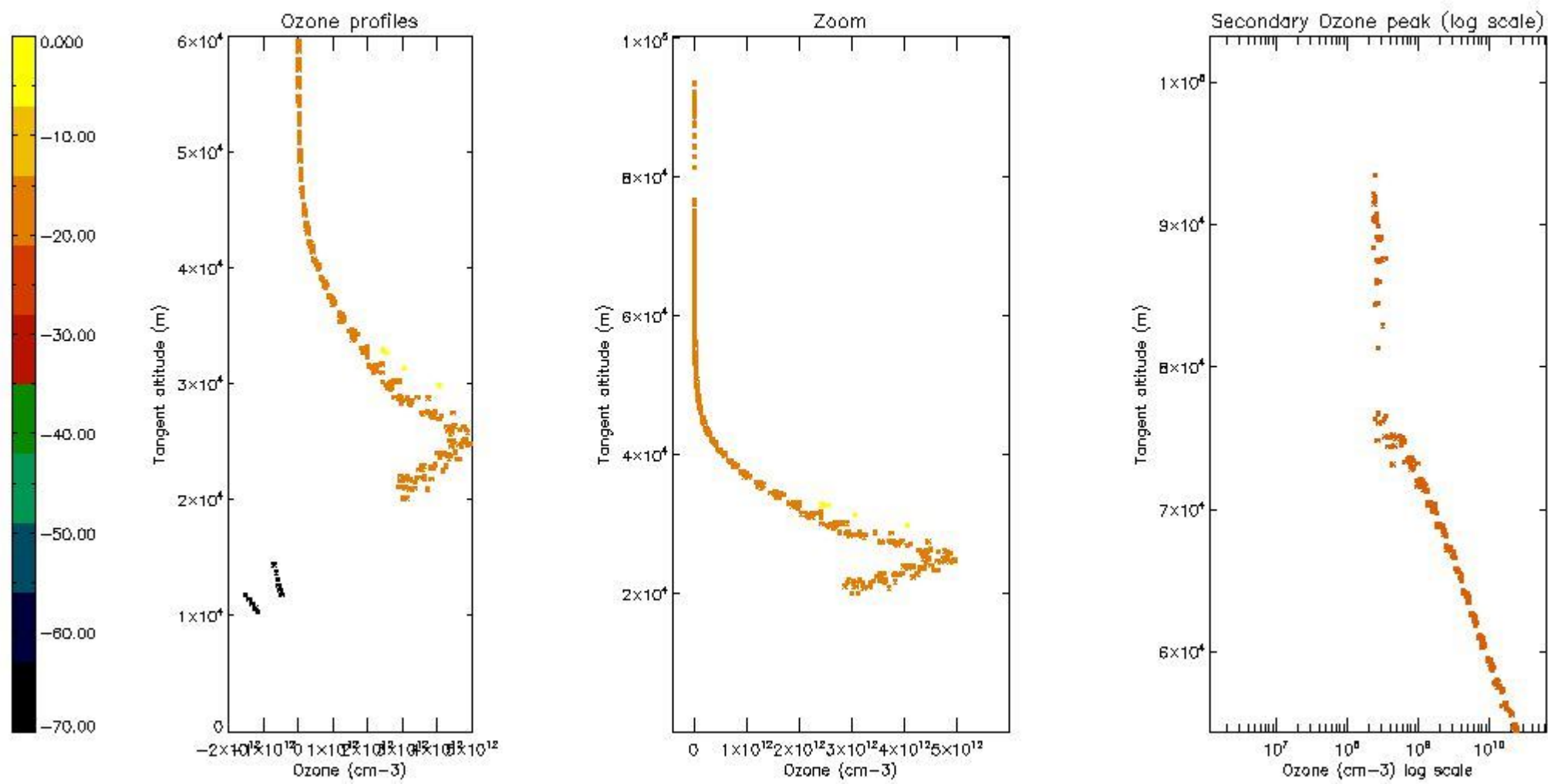
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



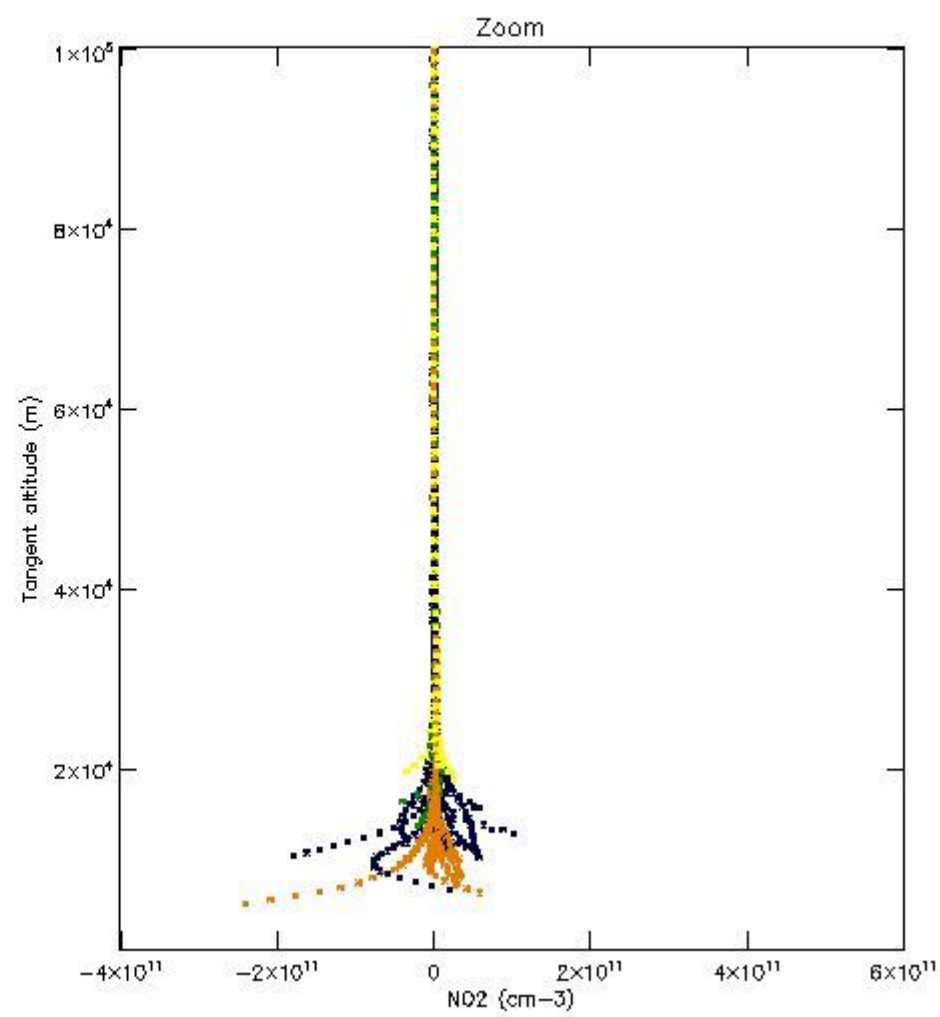
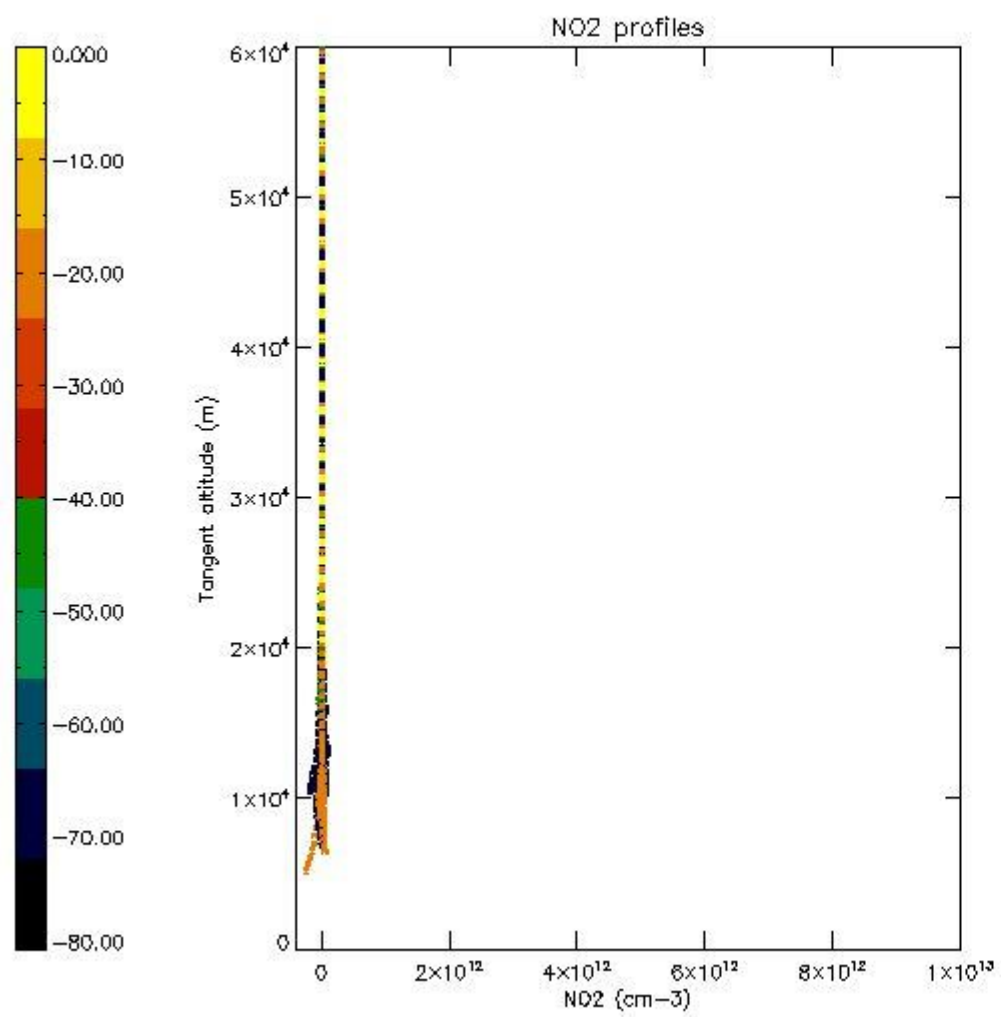
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



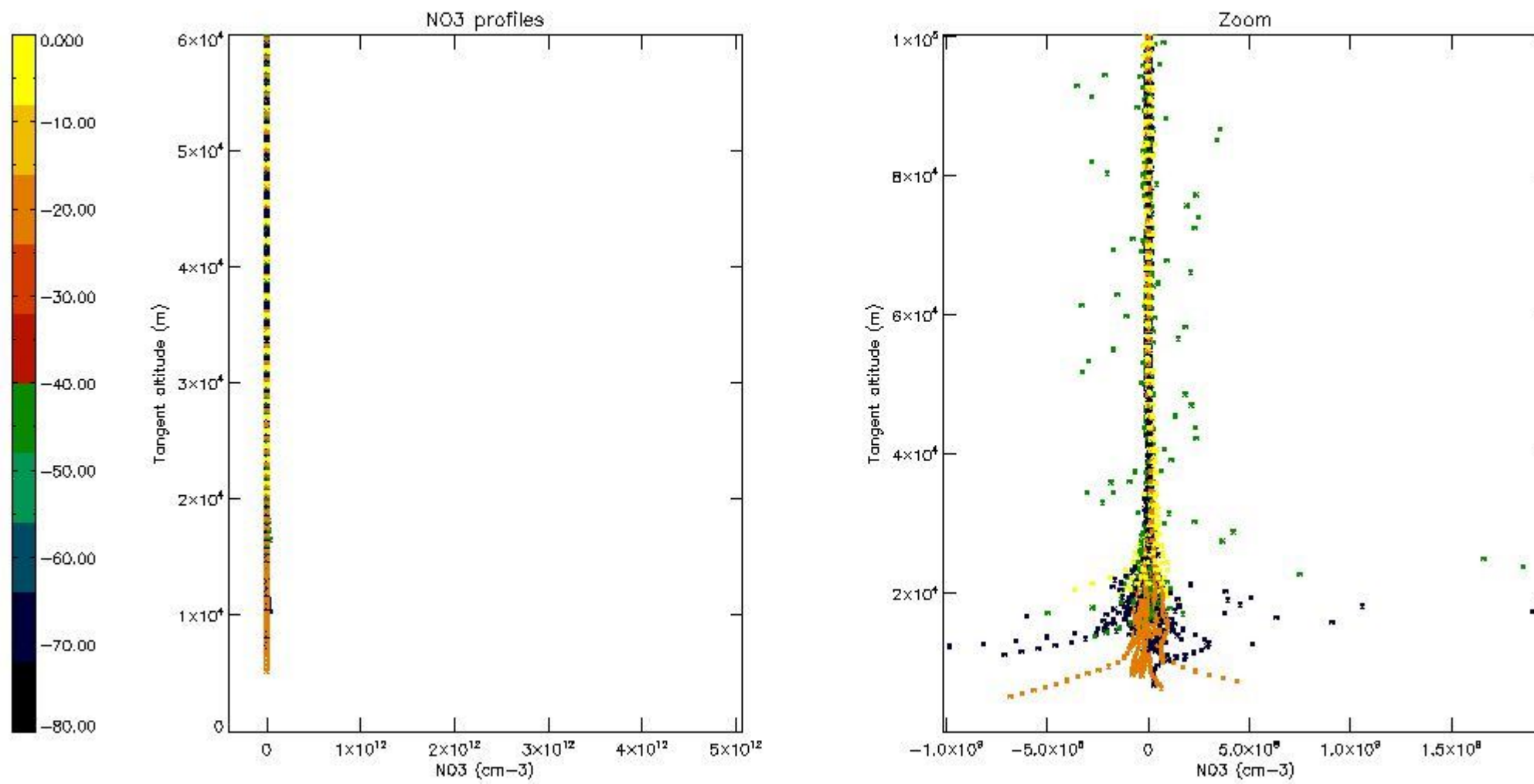
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

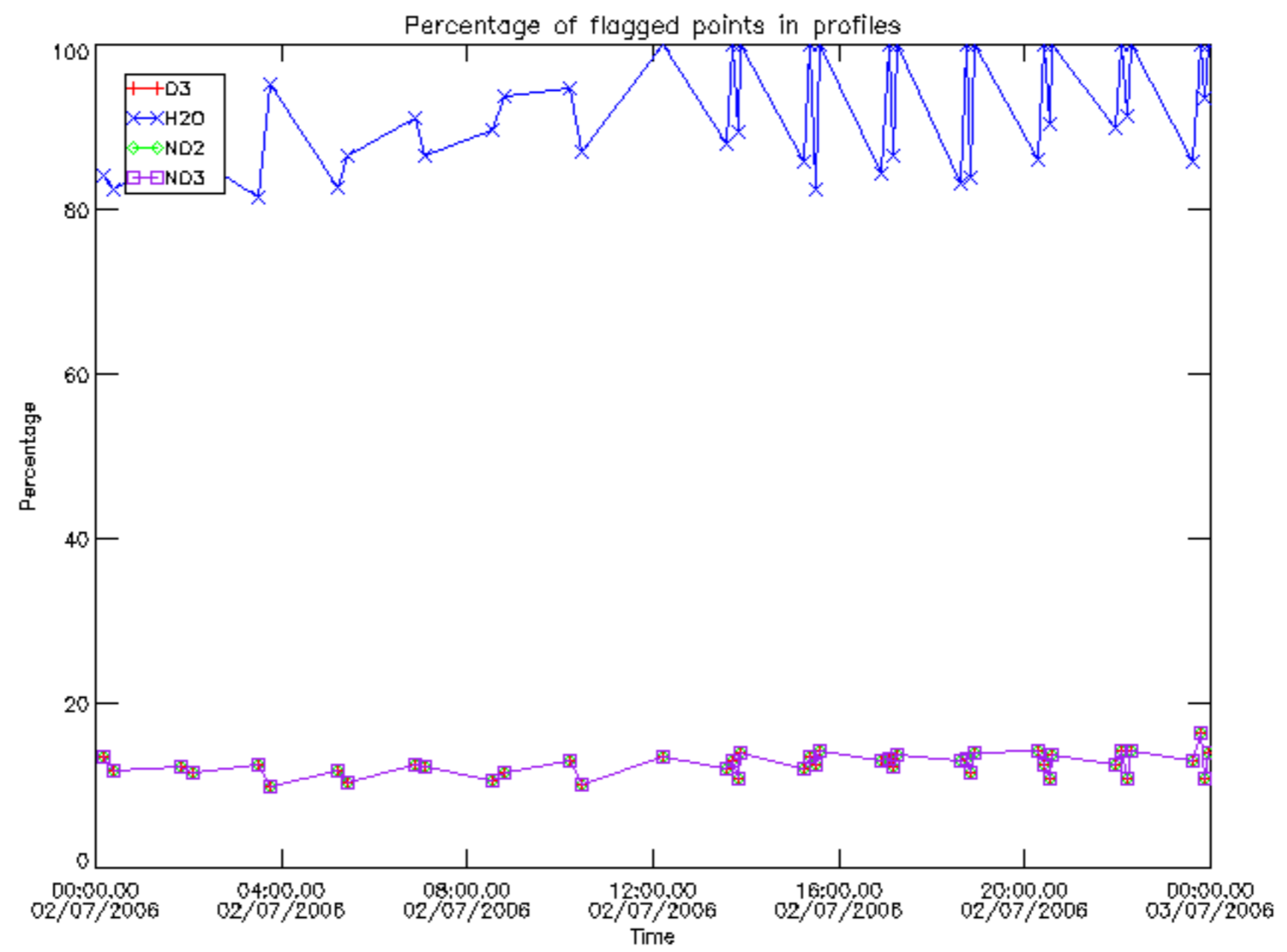
The colorbar represents the latitude.



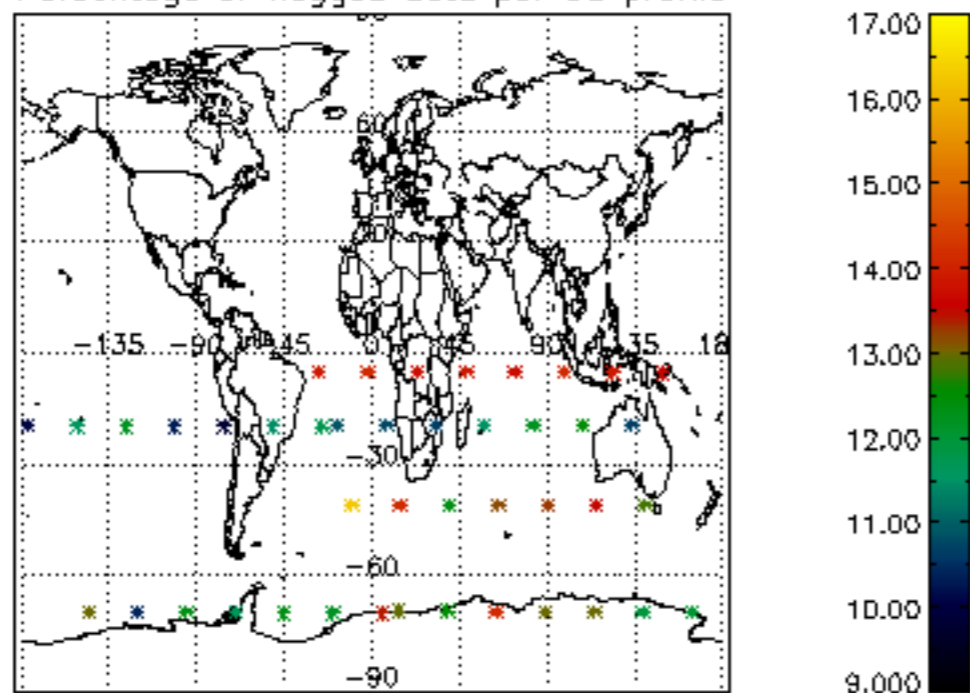
6. Auxiliary Data Files used for the production reported in section 2

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.

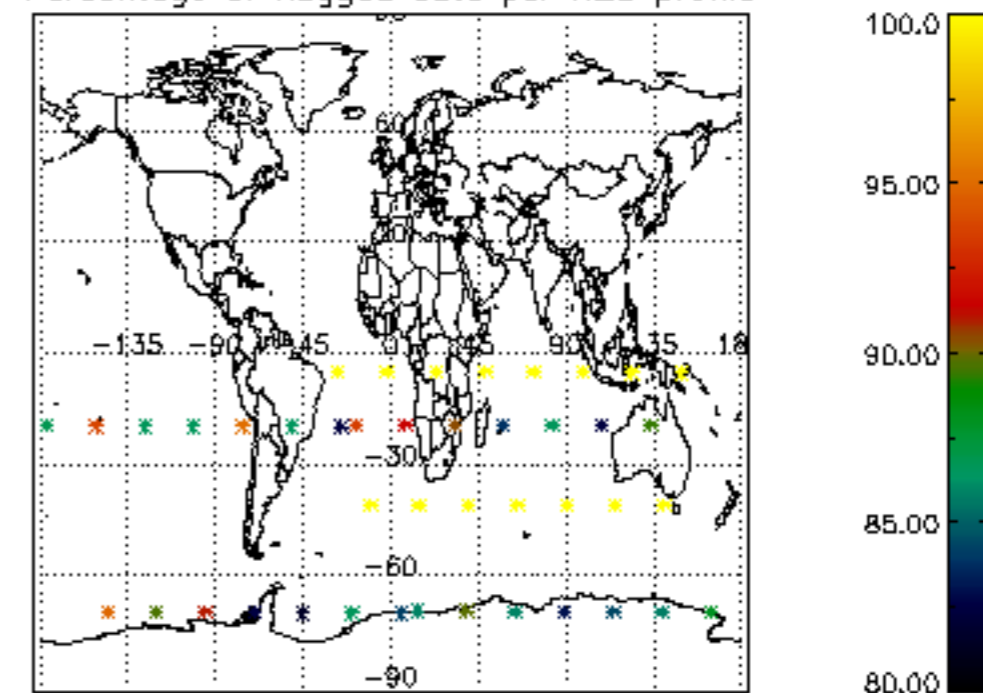
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	02-JUL-2006 00:09:31
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	02-JUL-2006 00:09:31
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	02-JUL-2006 00:09:31



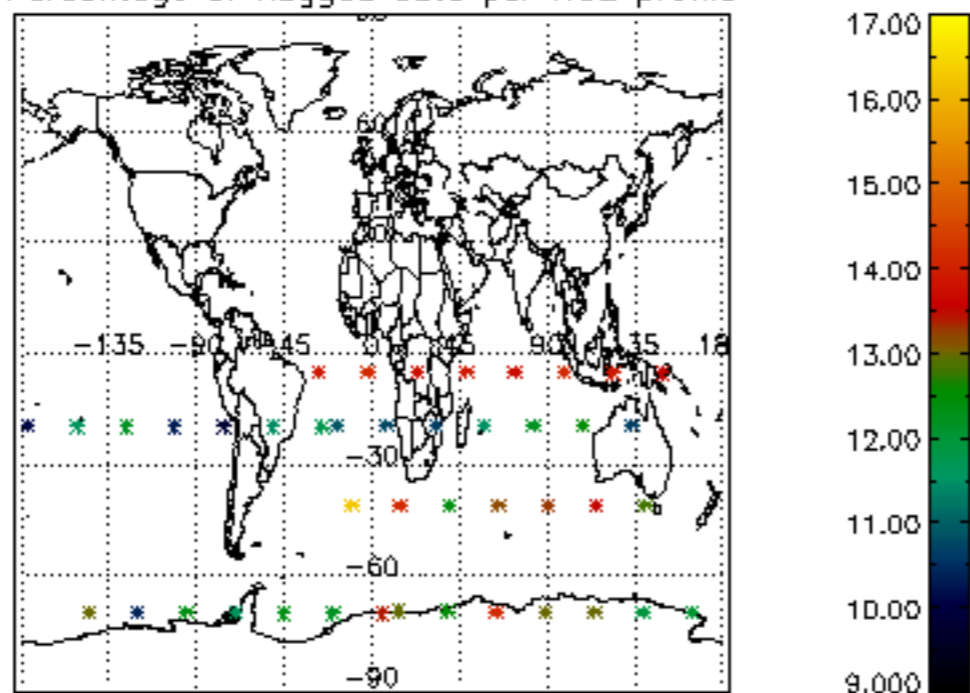
Percentage of flagged data per D3 profile



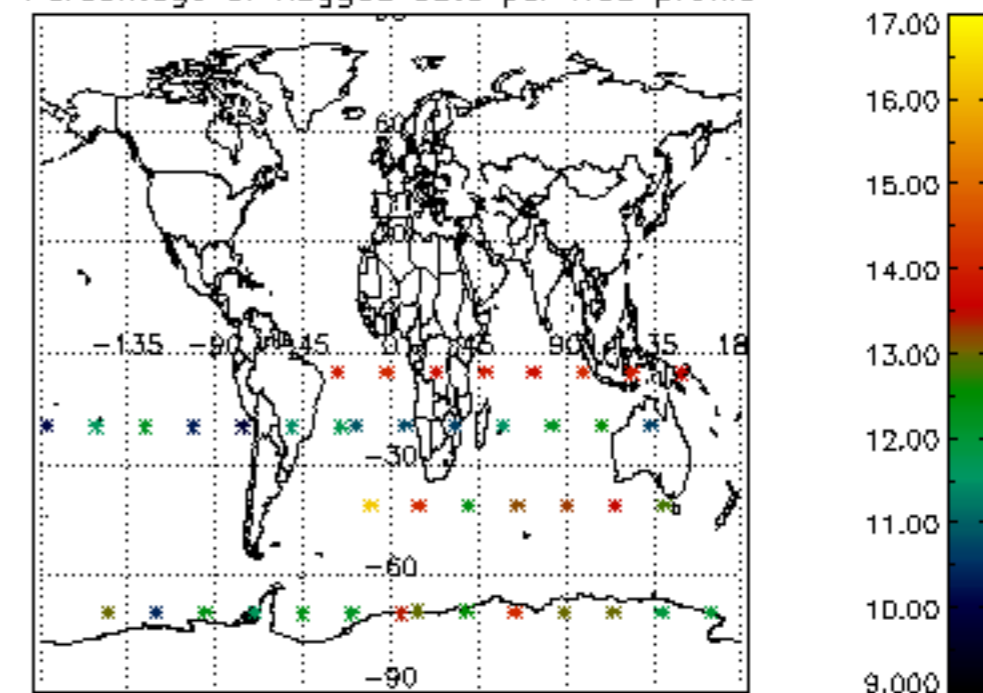
Percentage of flagged data per H2O profile

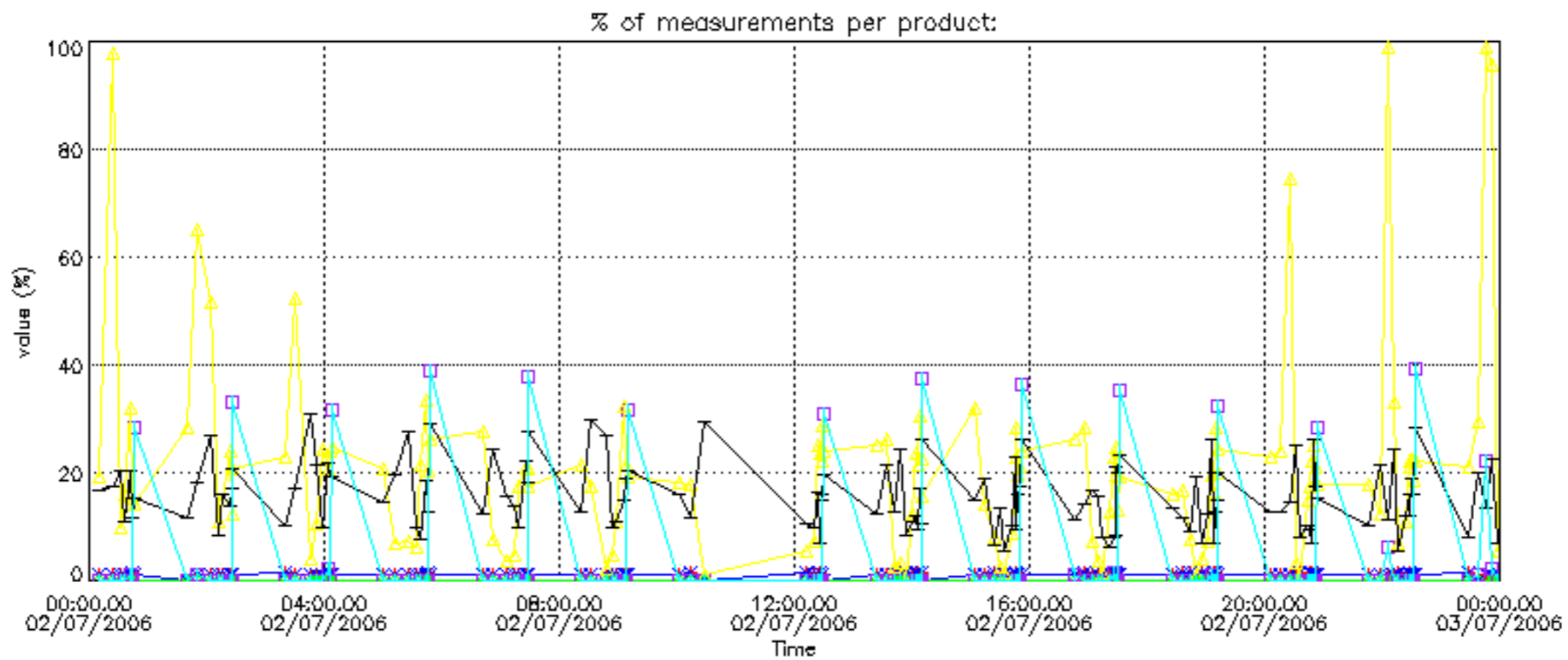


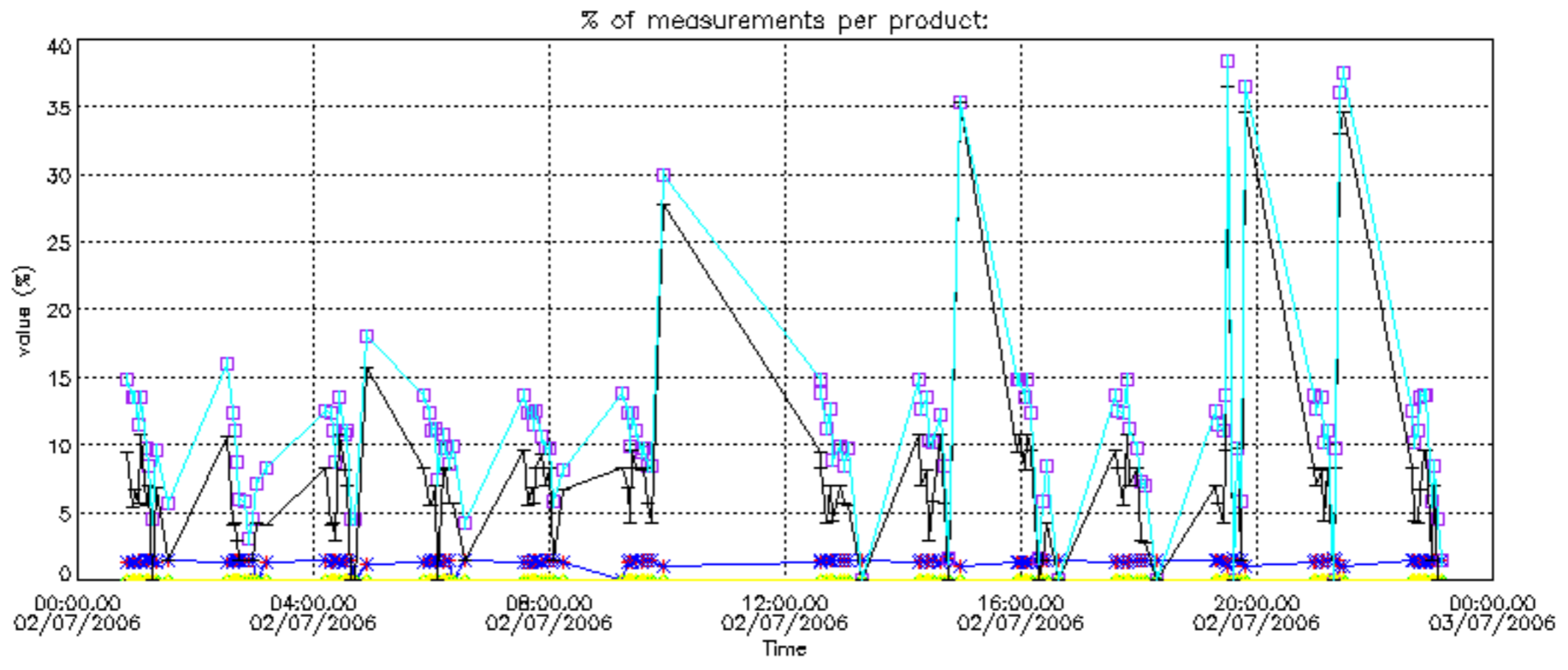
Percentage of flagged data per NO2 profile



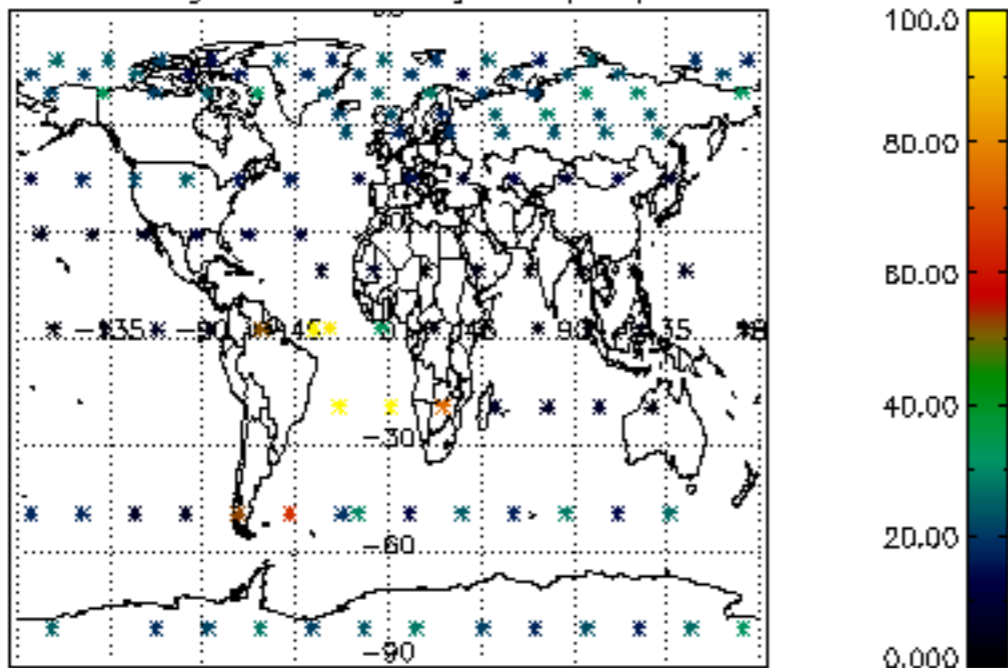
Percentage of flagged data per NO3 profile



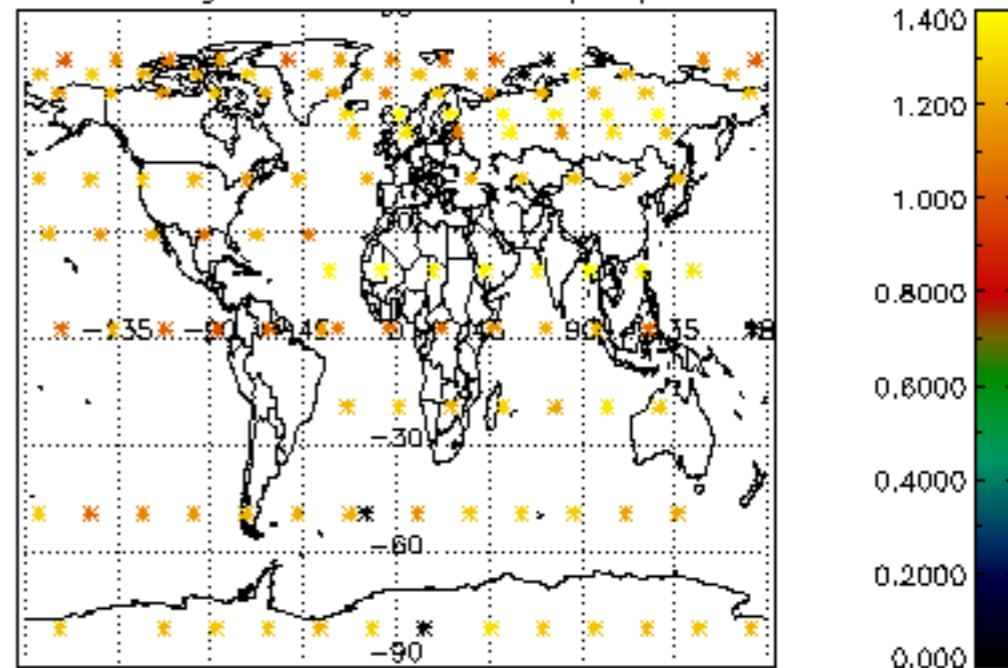




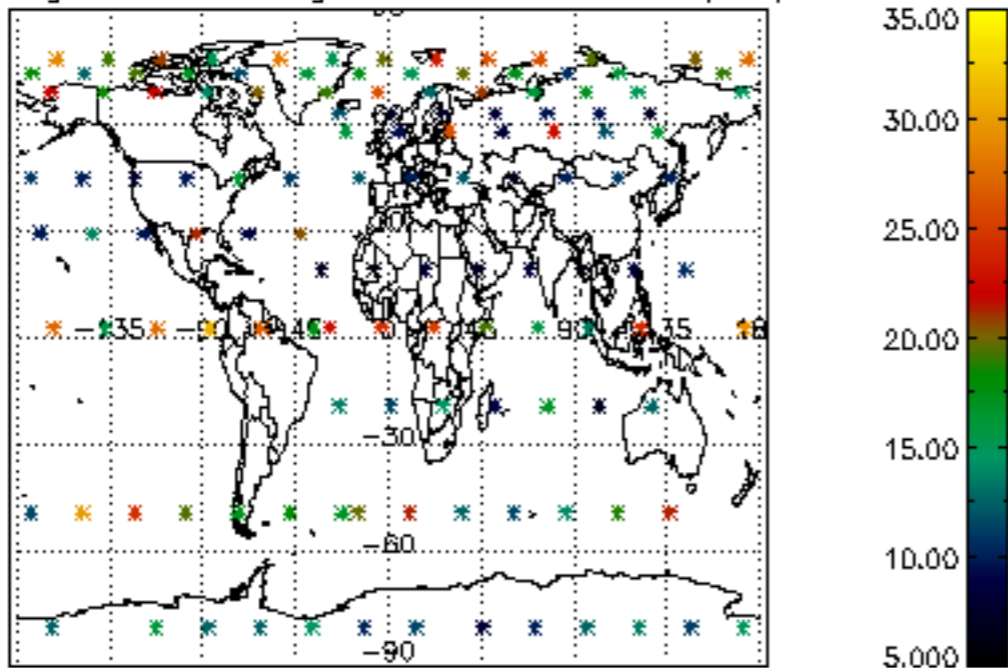
Percentage of cosmic ray hits per profile



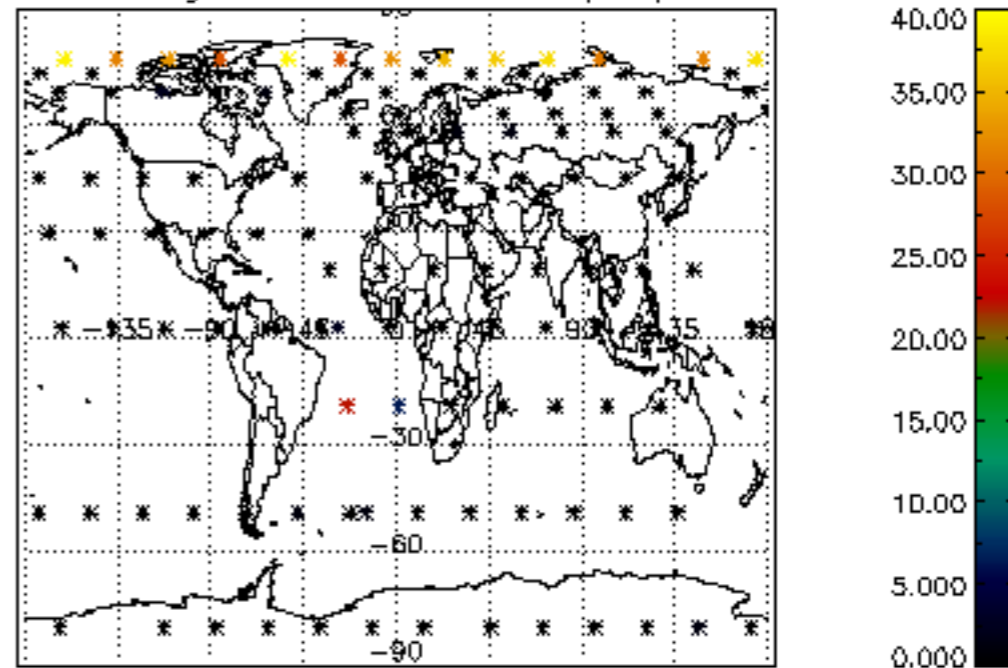
Percentage of datation errors per profile



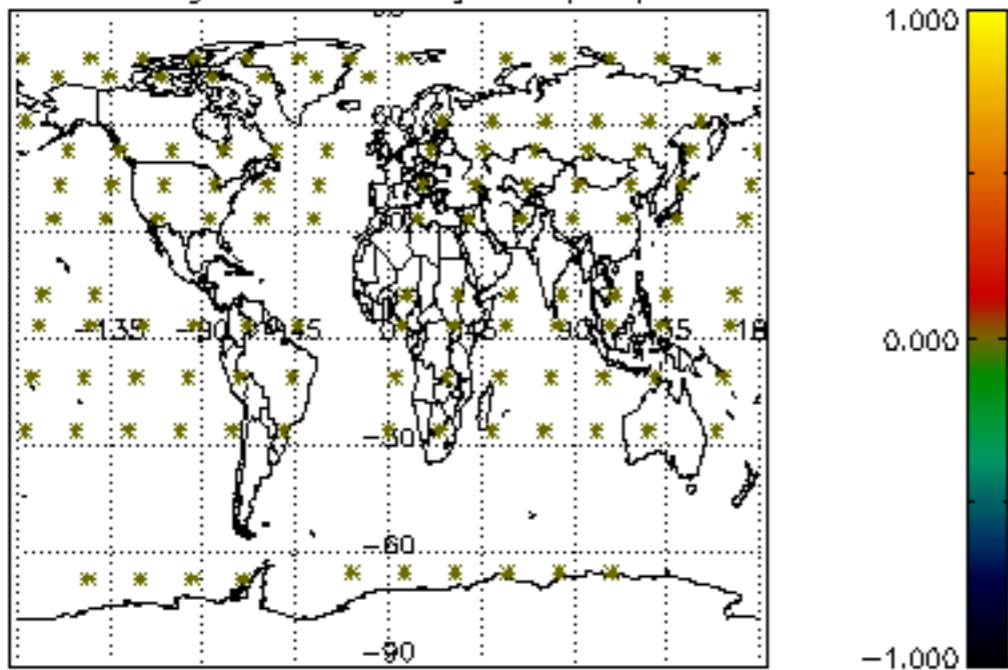
Percentage of star falling outside central band per profile



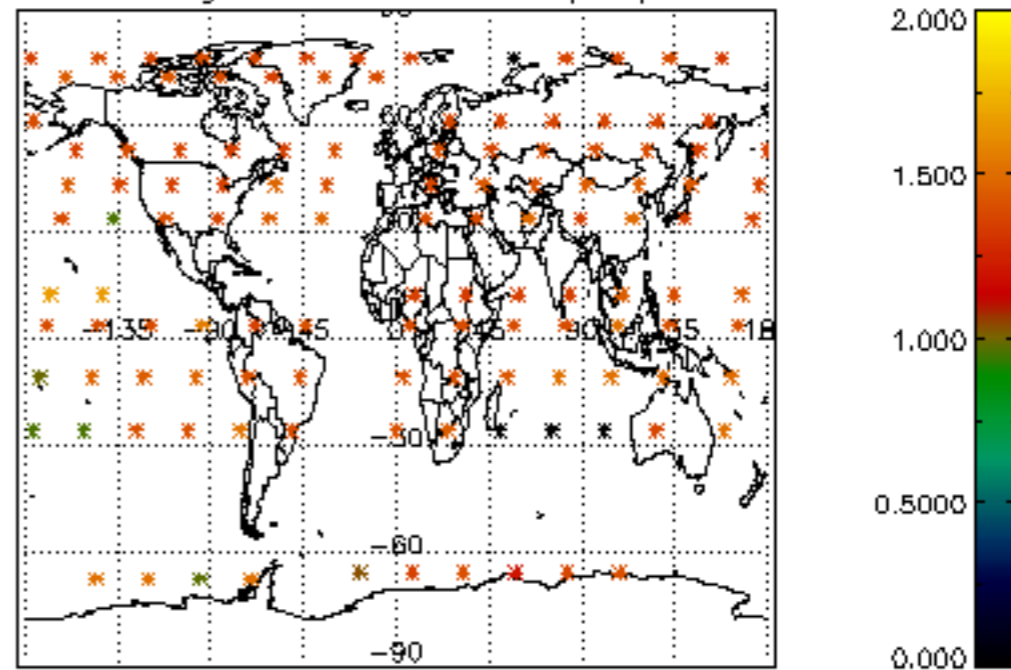
Percentage of saturation errors per profile



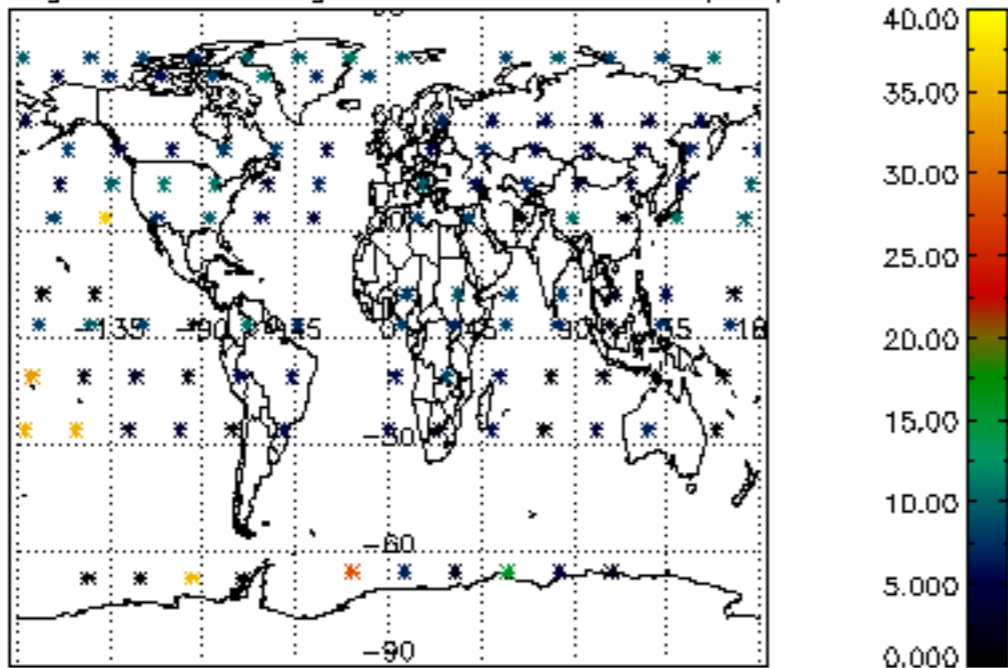
Percentage of cosmic ray hits per profile



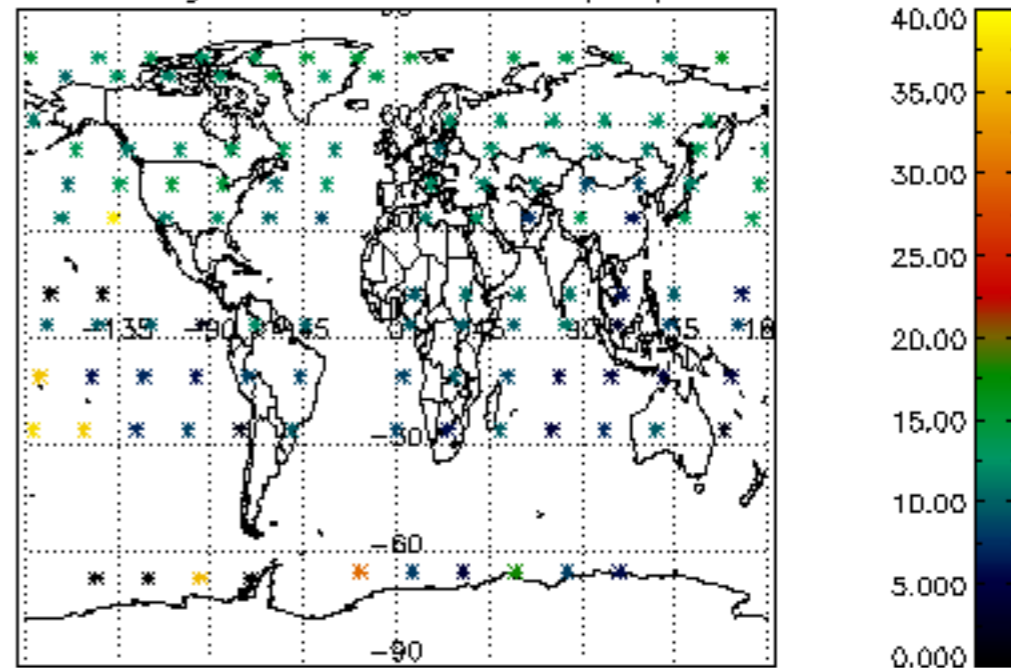
Percentage of datation errors per profile

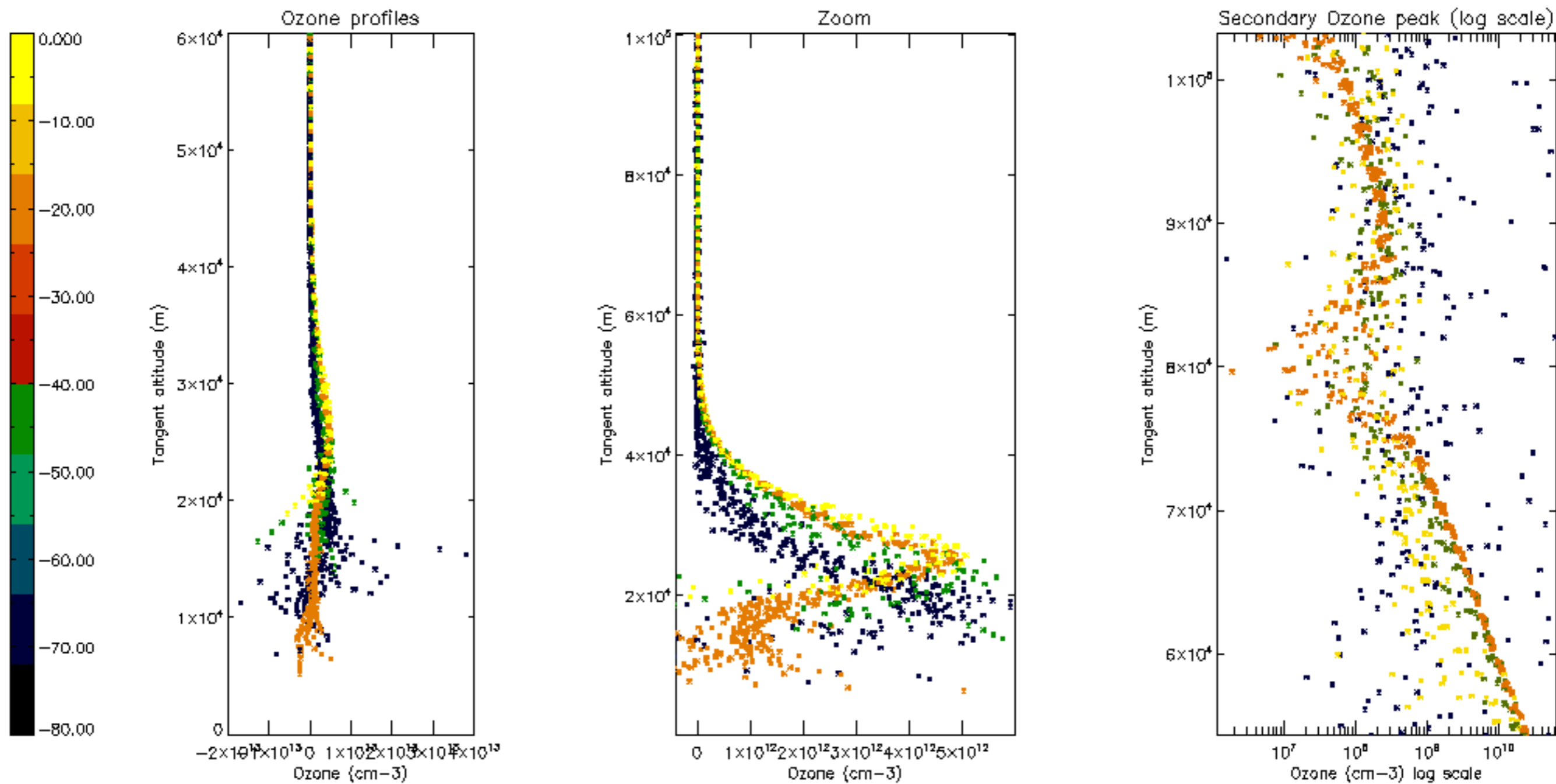


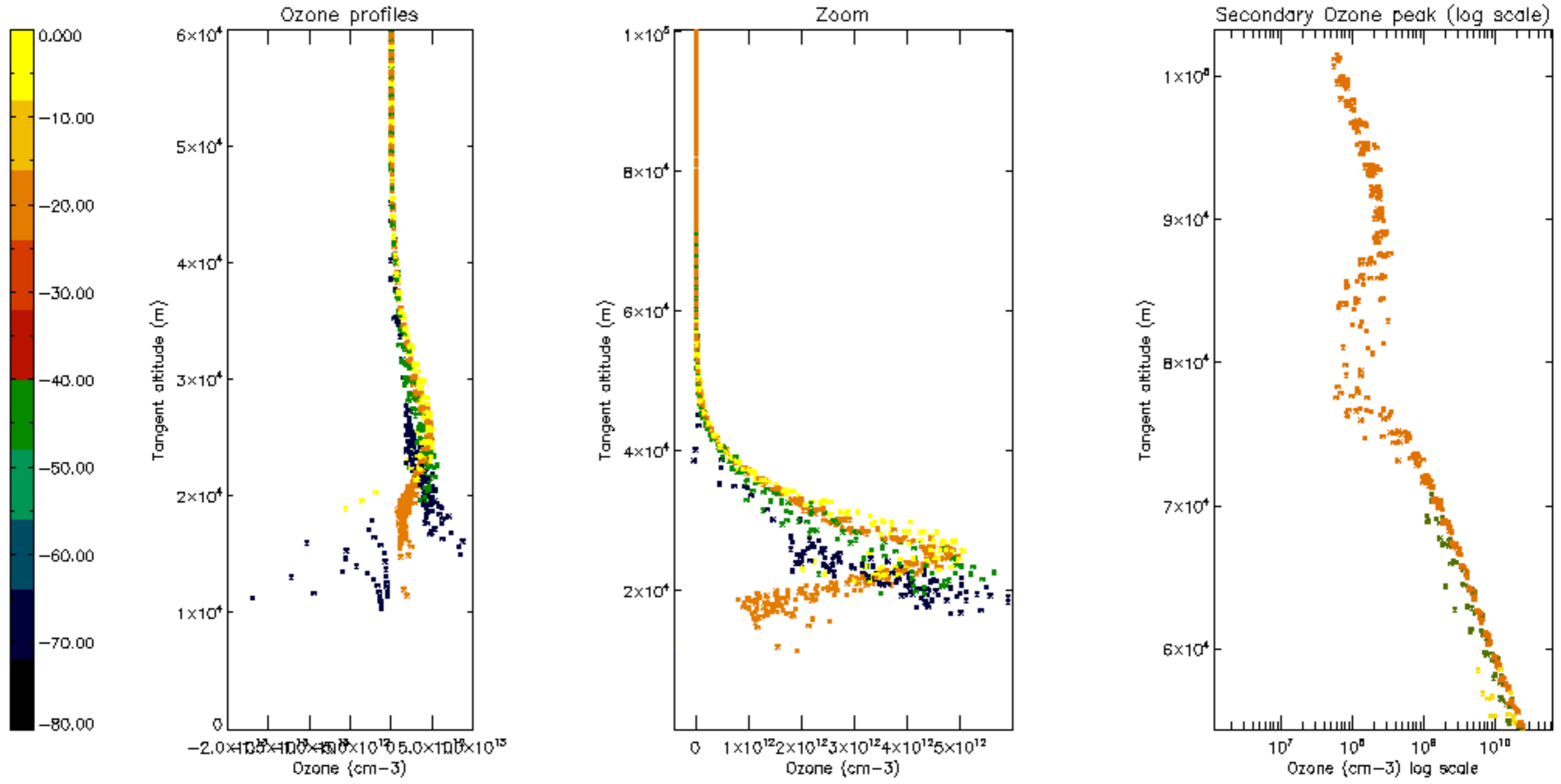
Percentage of star falling outside central band per profile

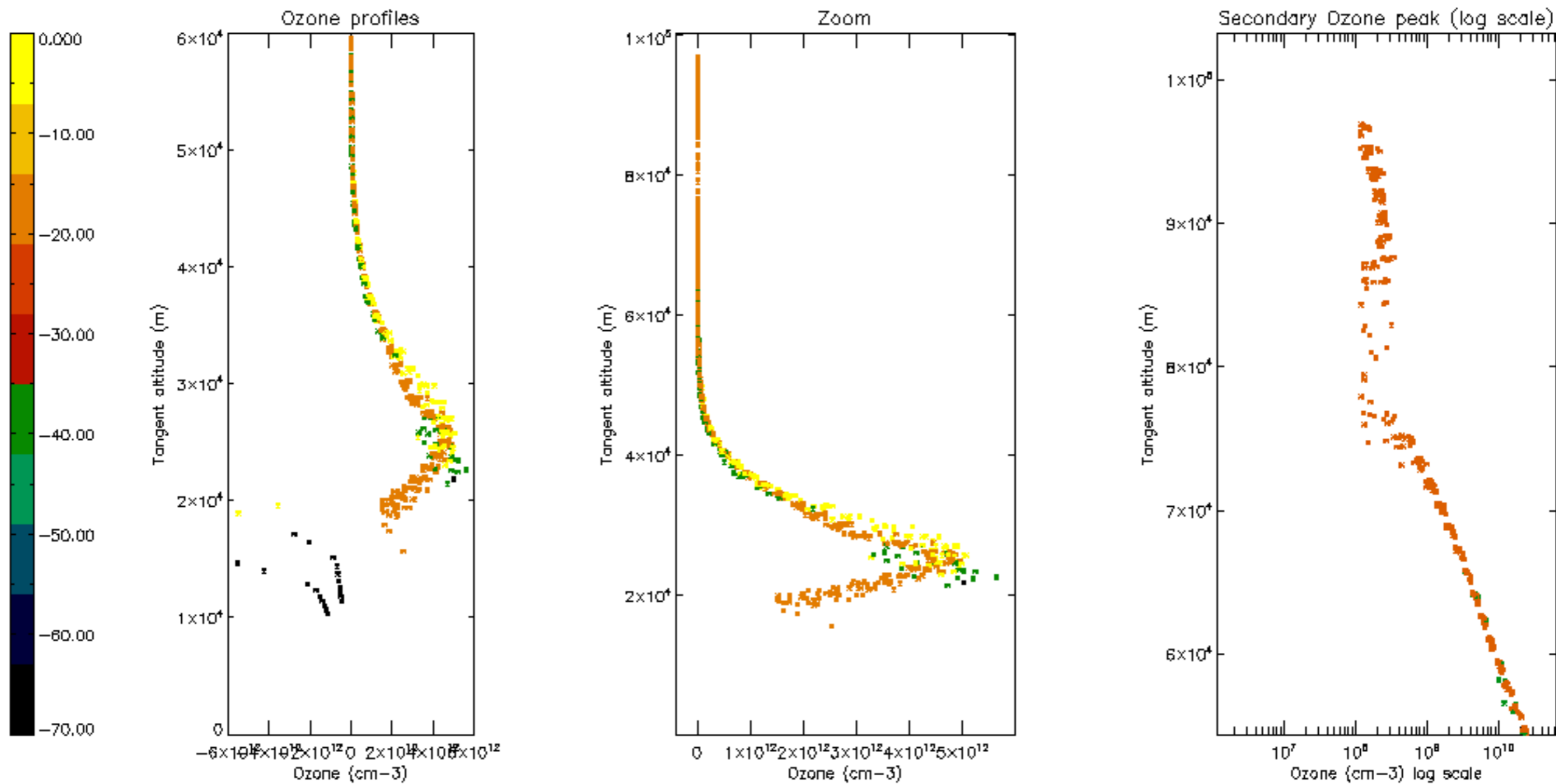


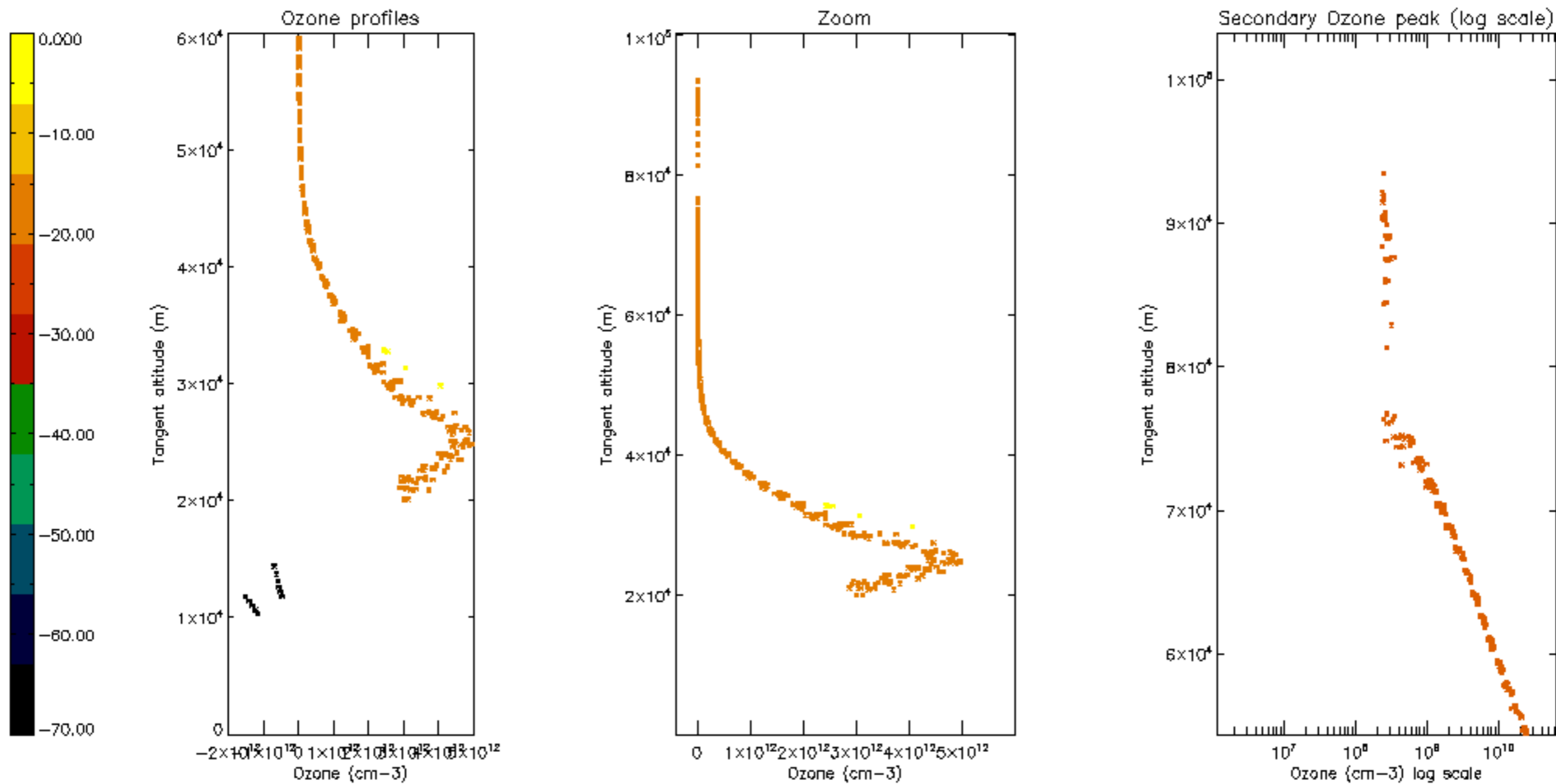
Percentage of saturation errors per profile

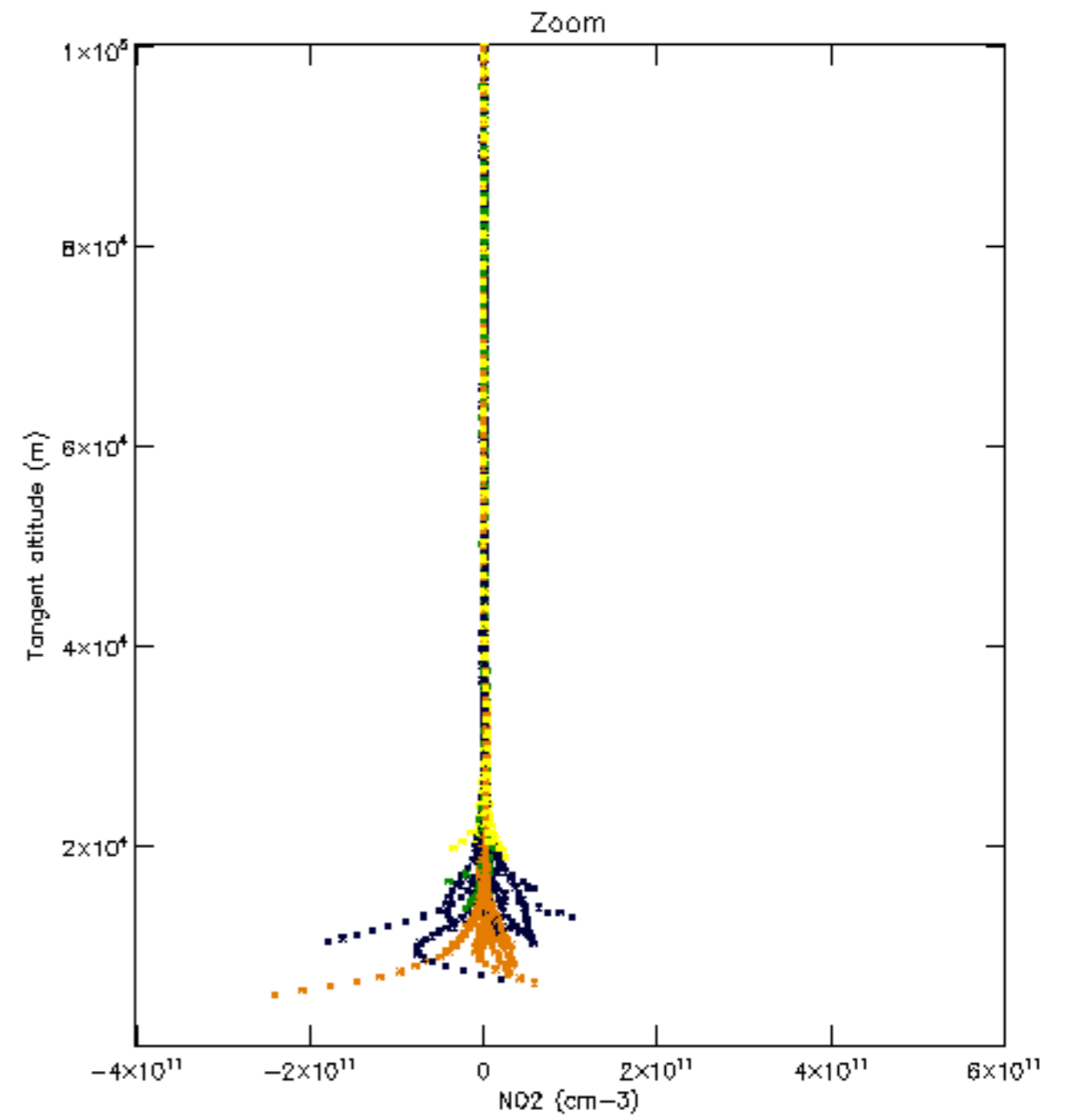
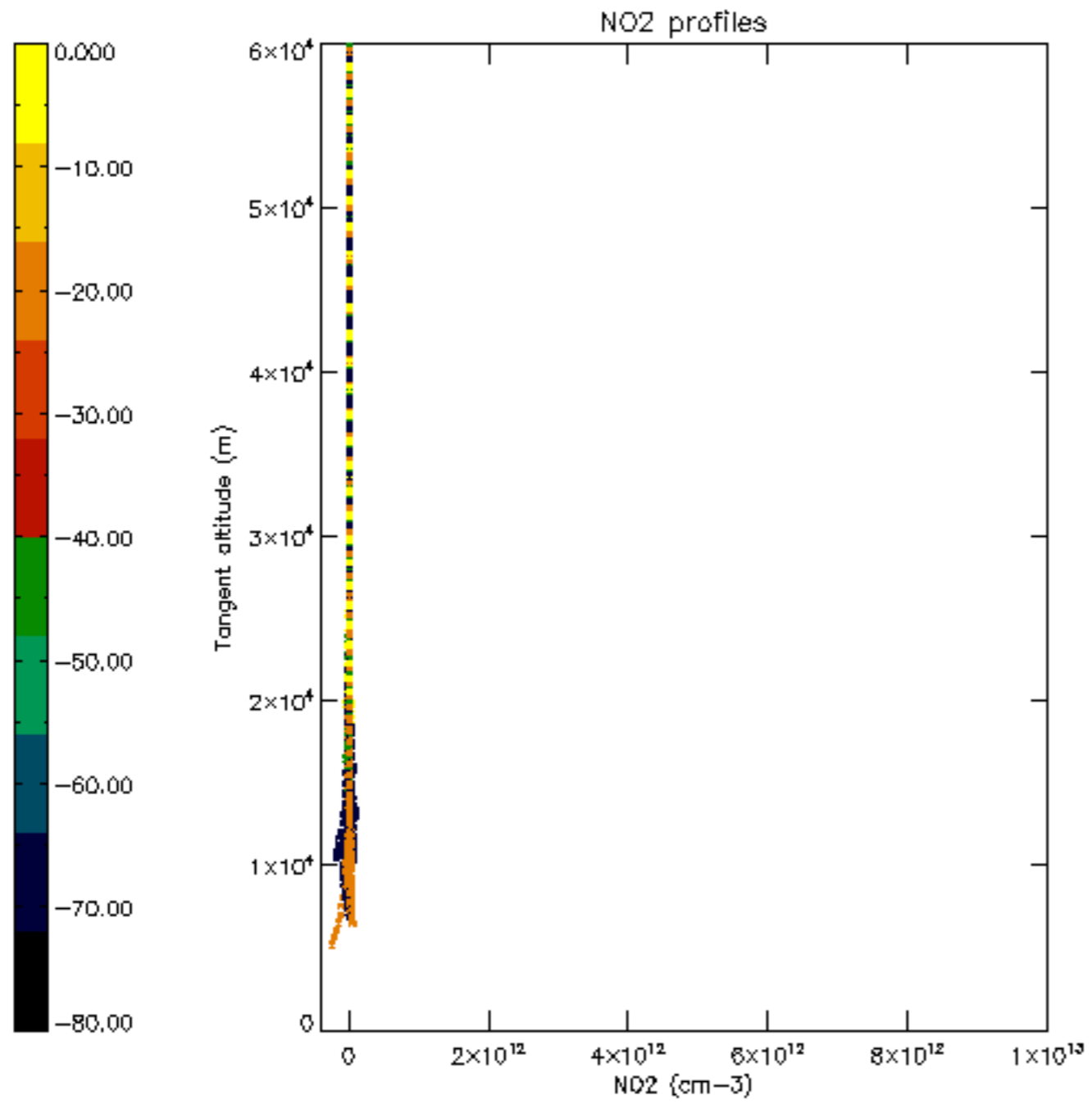


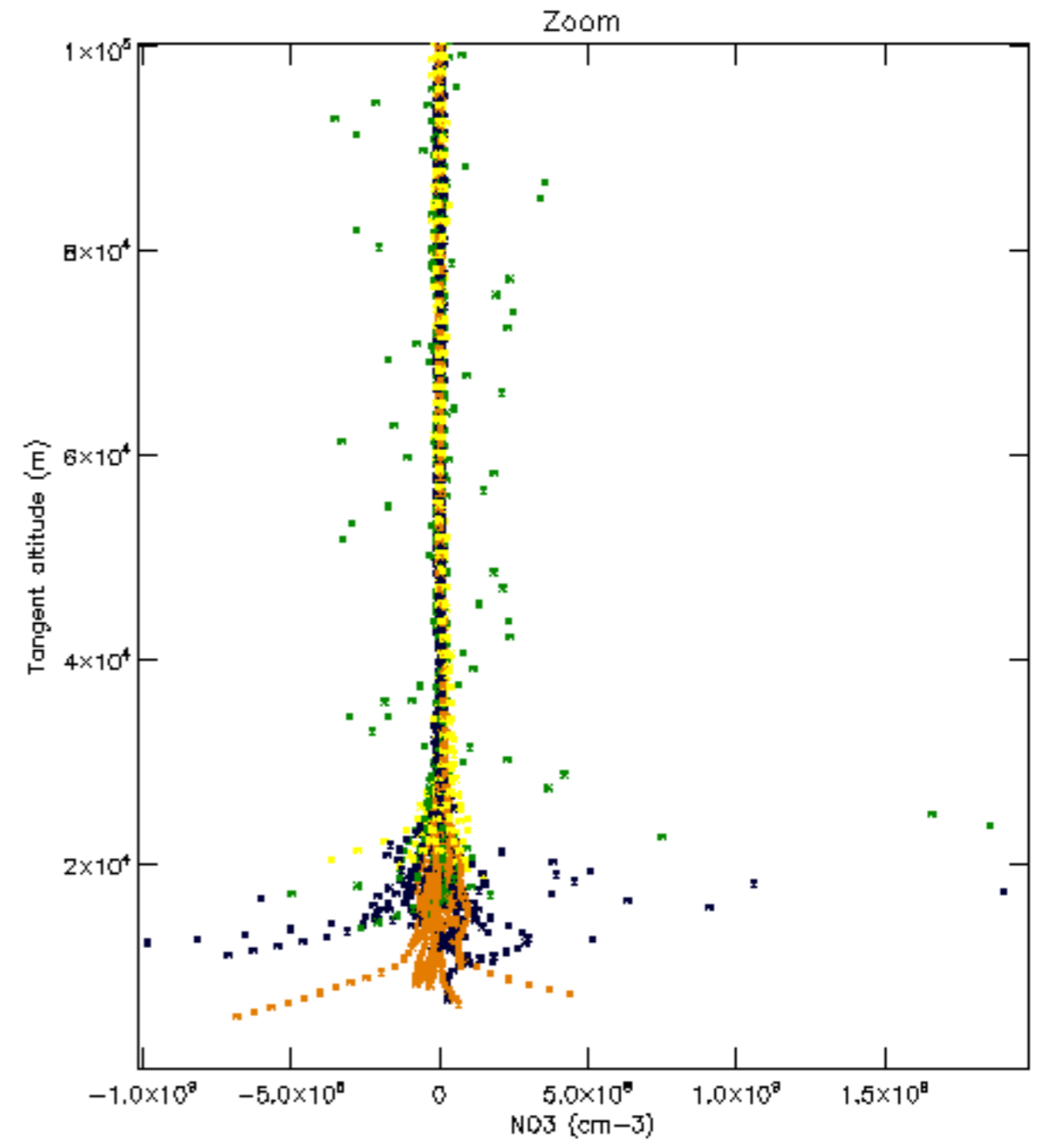
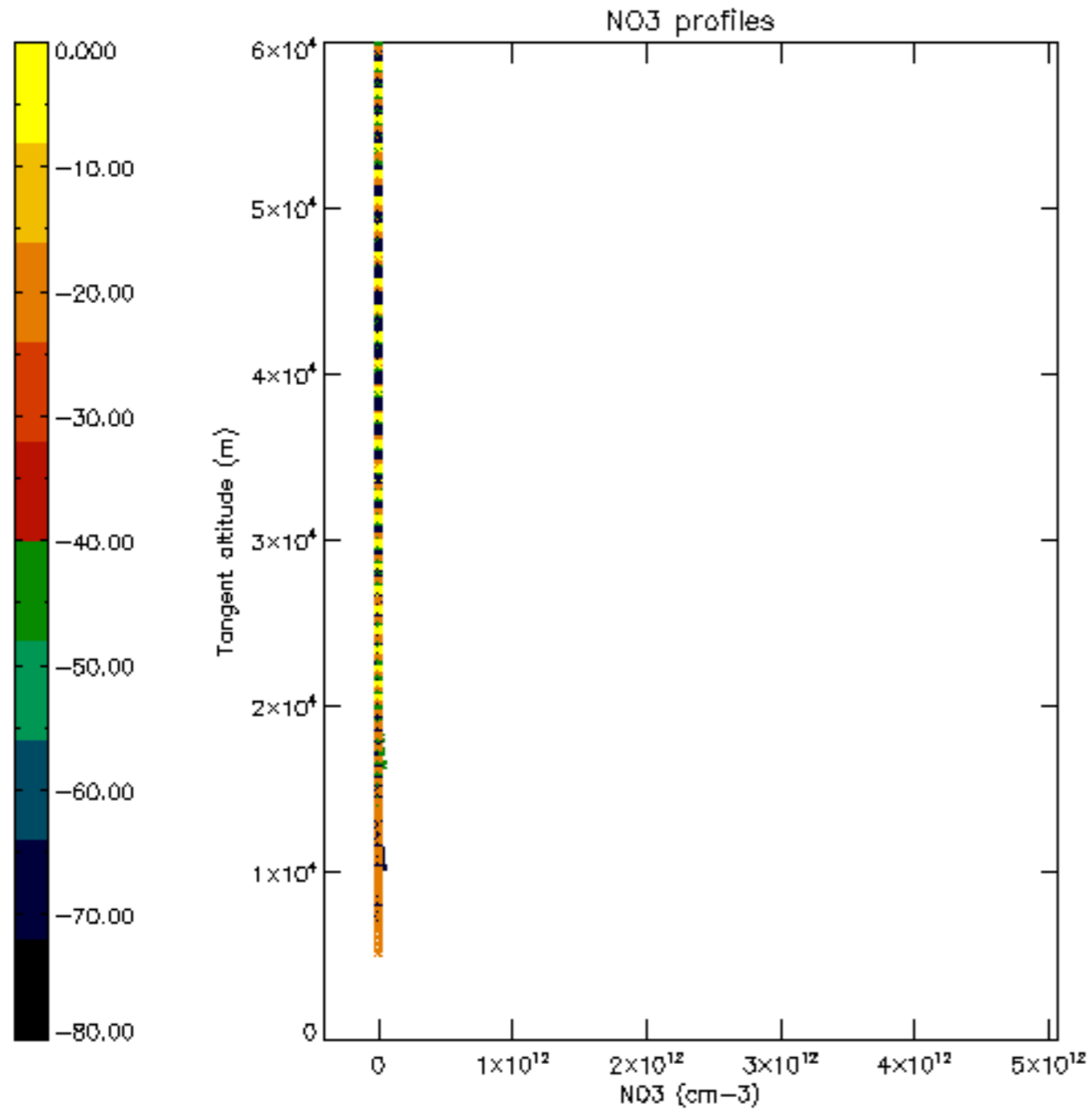


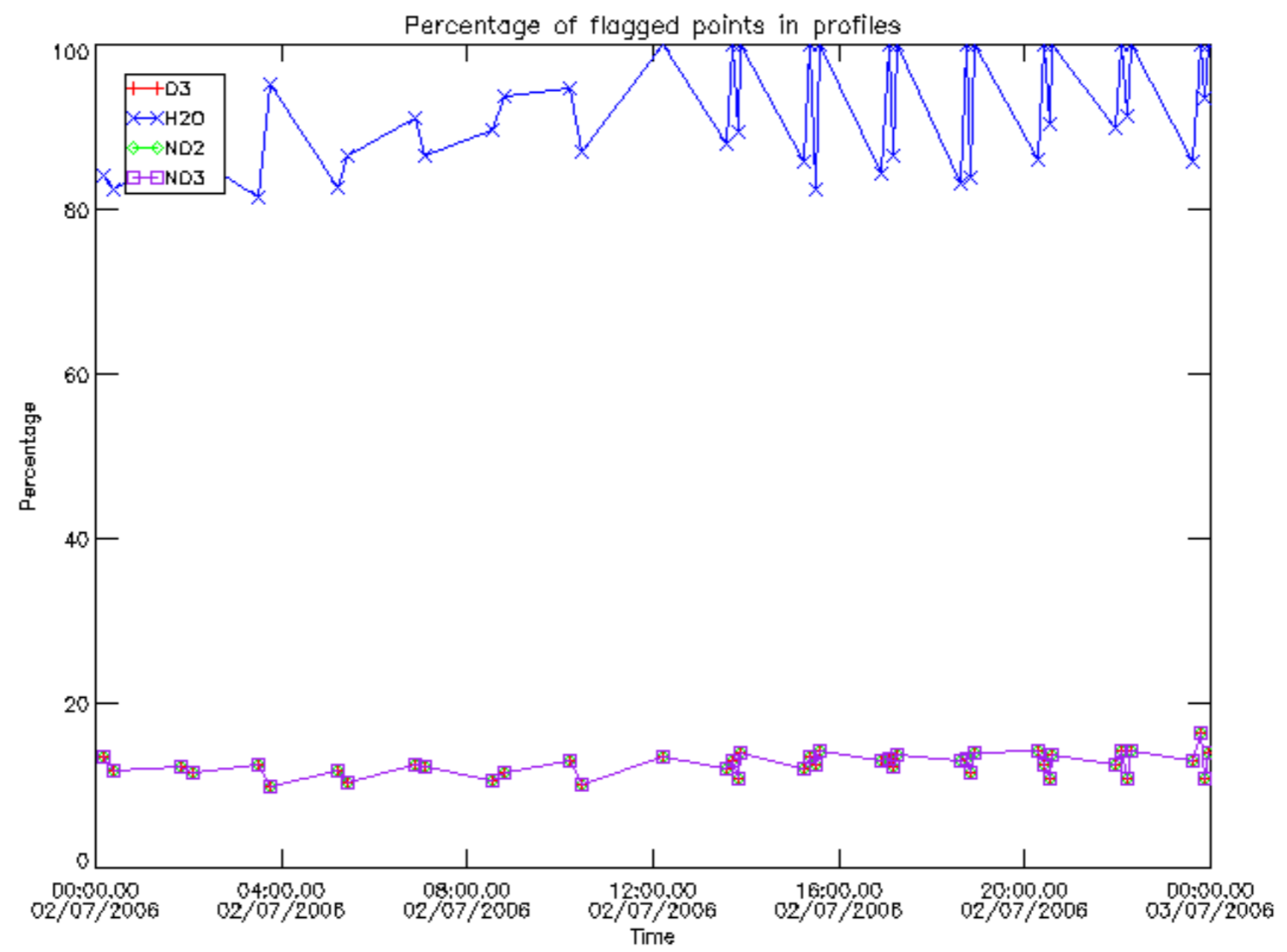




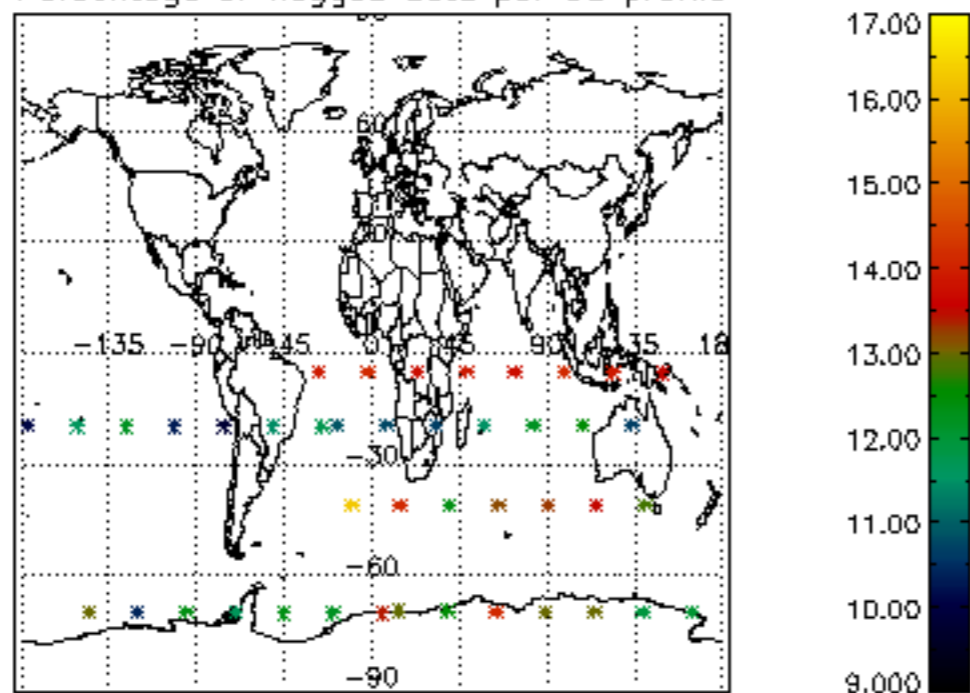




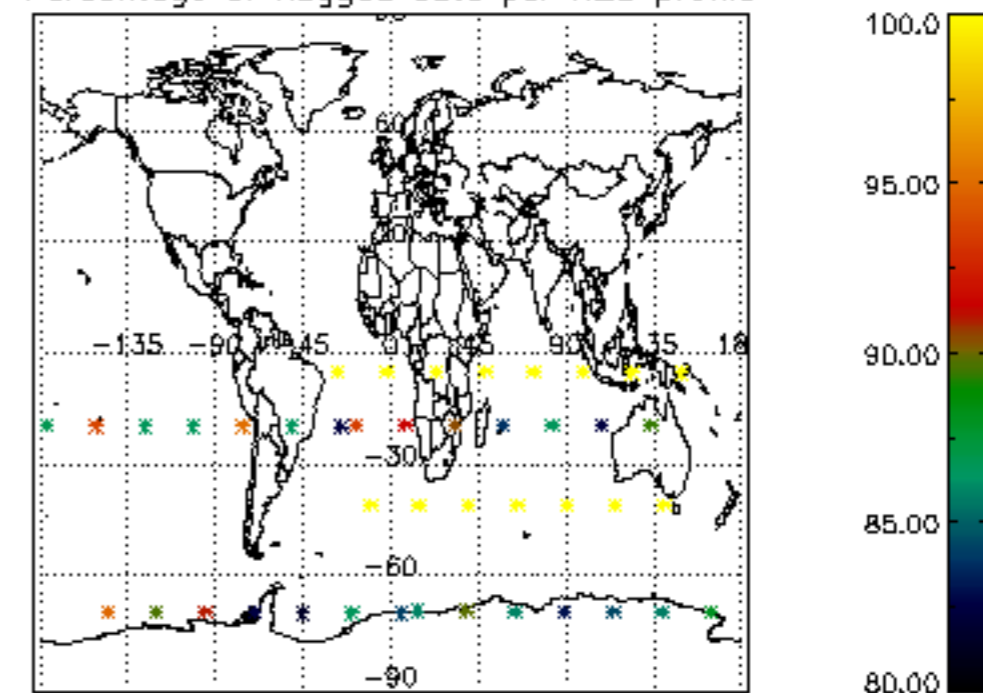




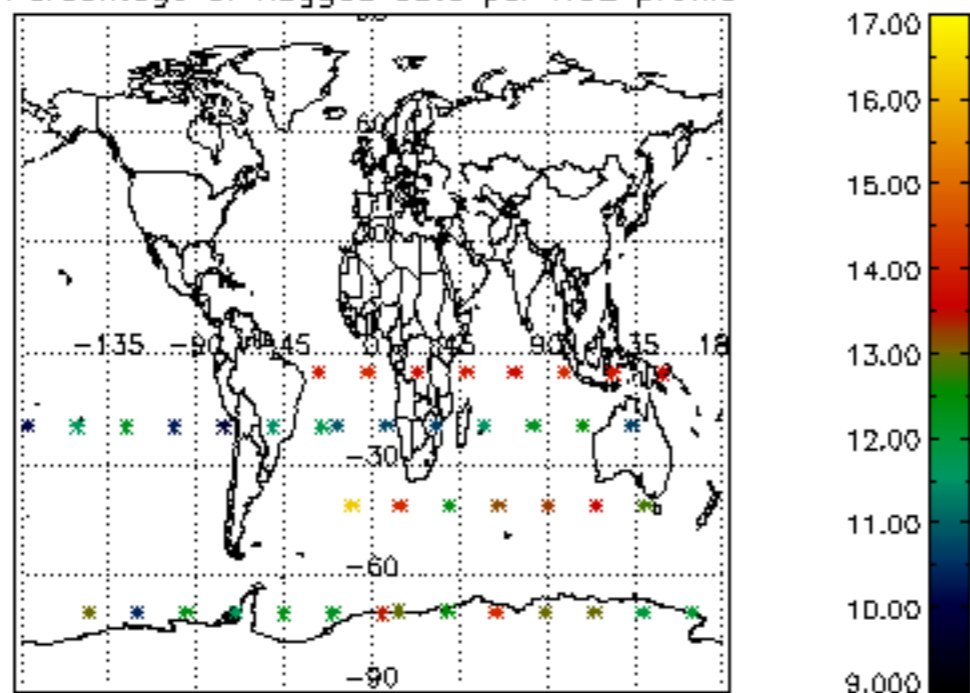
Percentage of flagged data per D3 profile



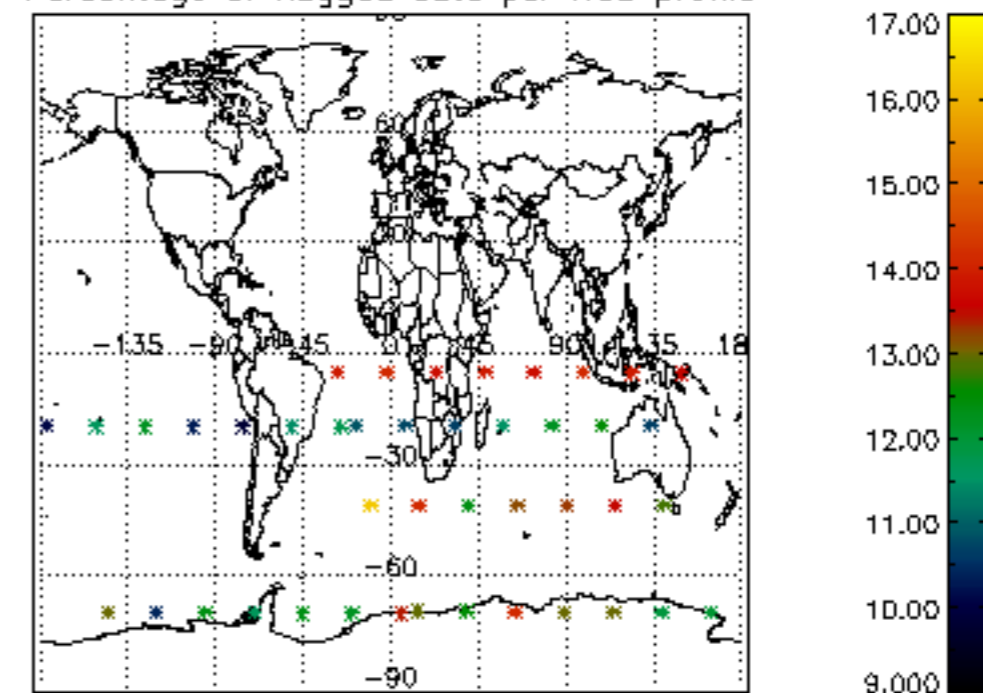
Percentage of flagged data per H2O profile

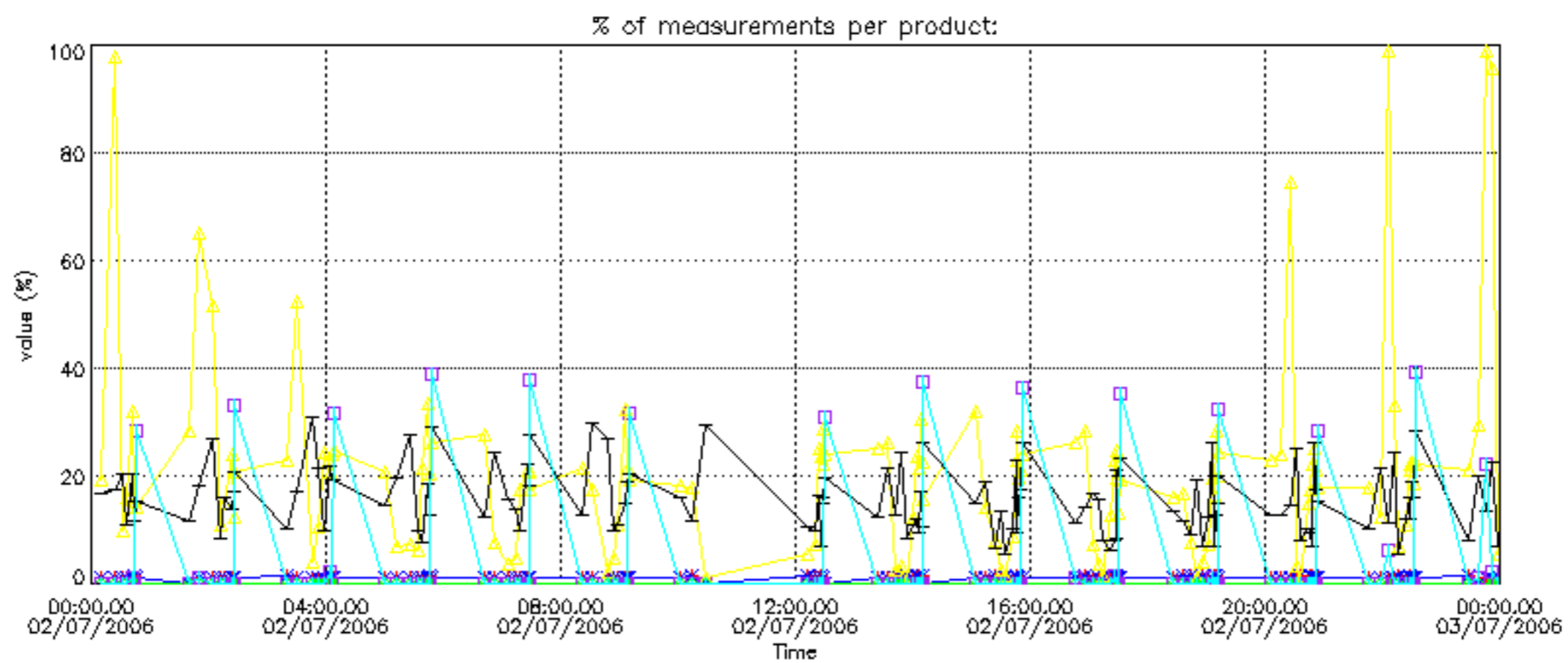
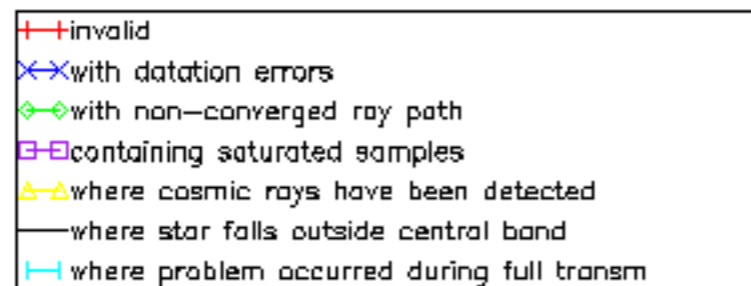


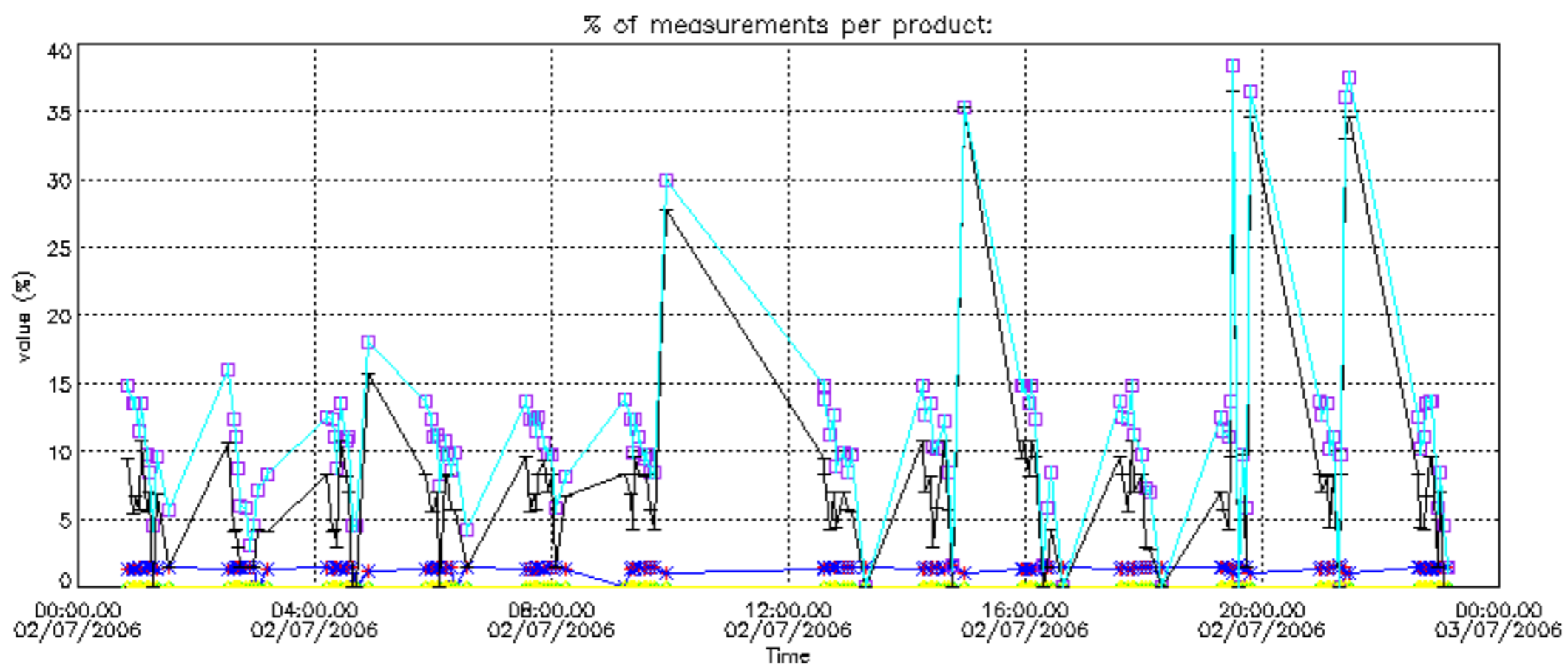
Percentage of flagged data per NO2 profile



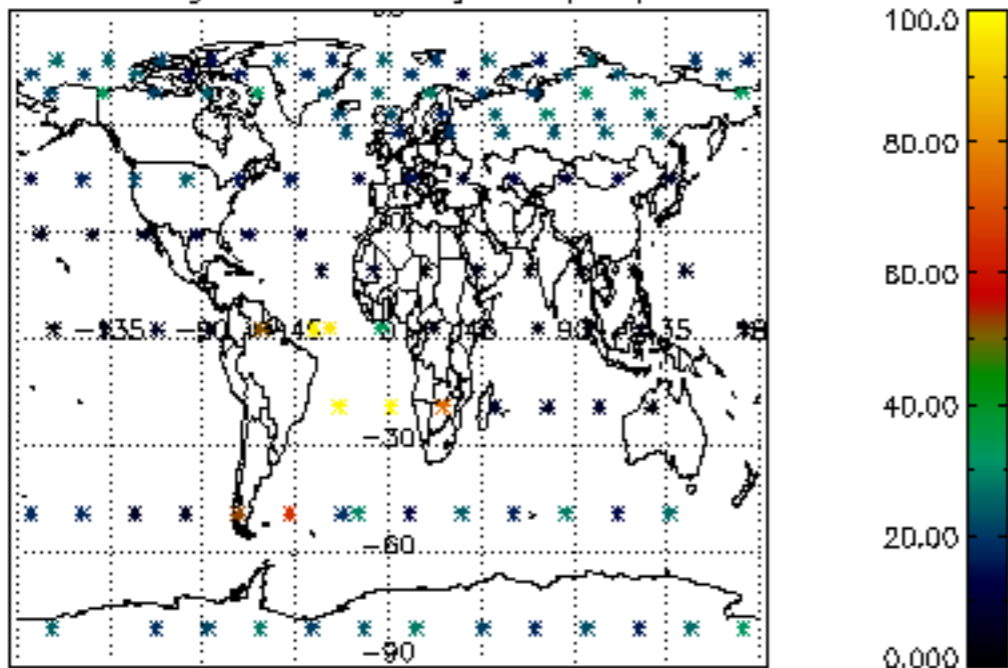
Percentage of flagged data per NO3 profile



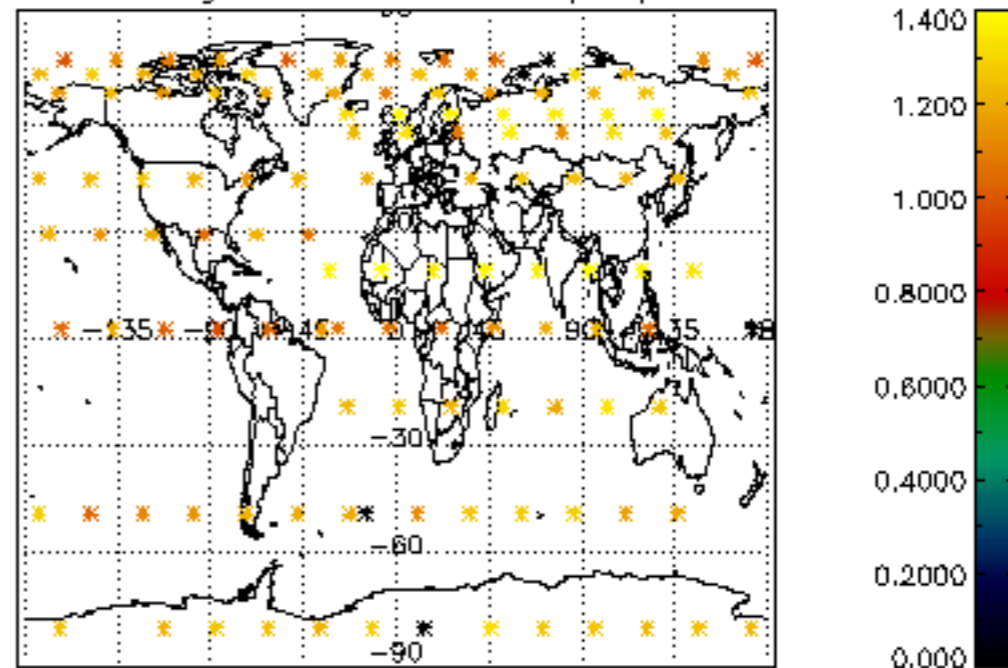




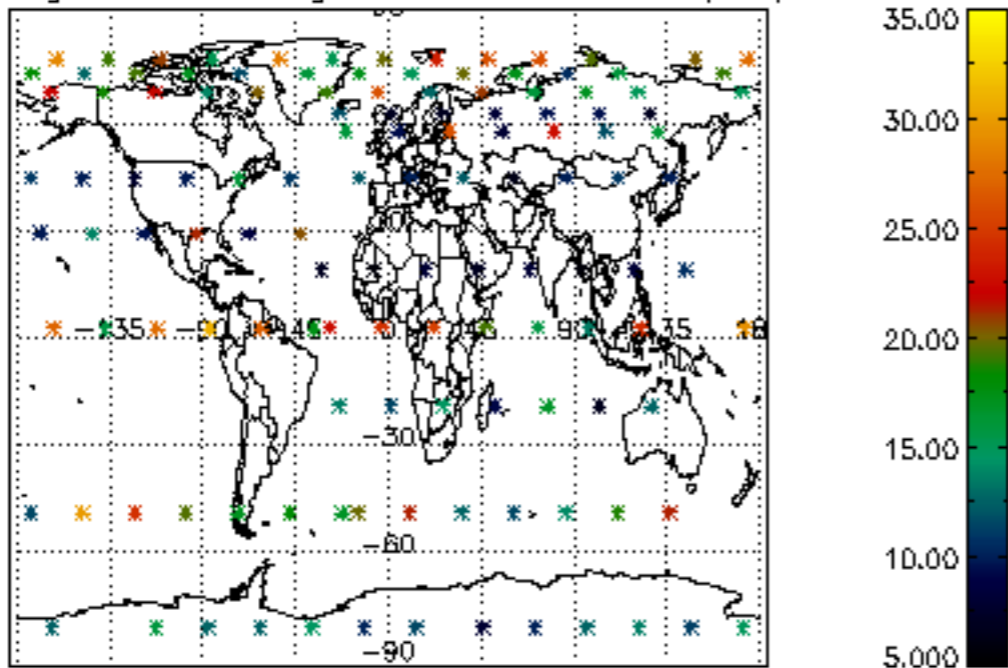
Percentage of cosmic ray hits per profile



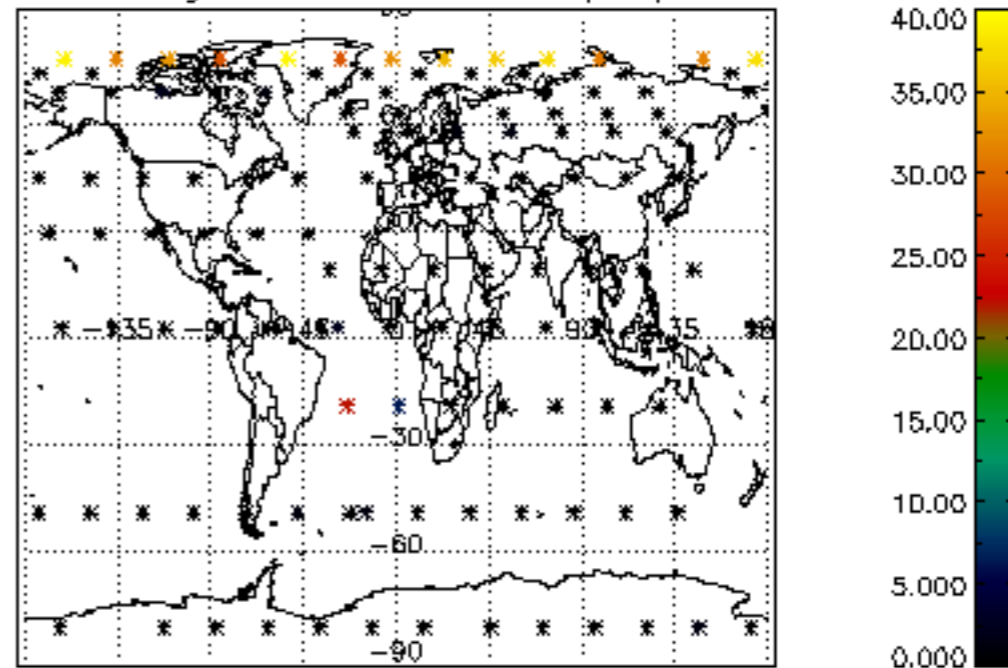
Percentage of datation errors per profile



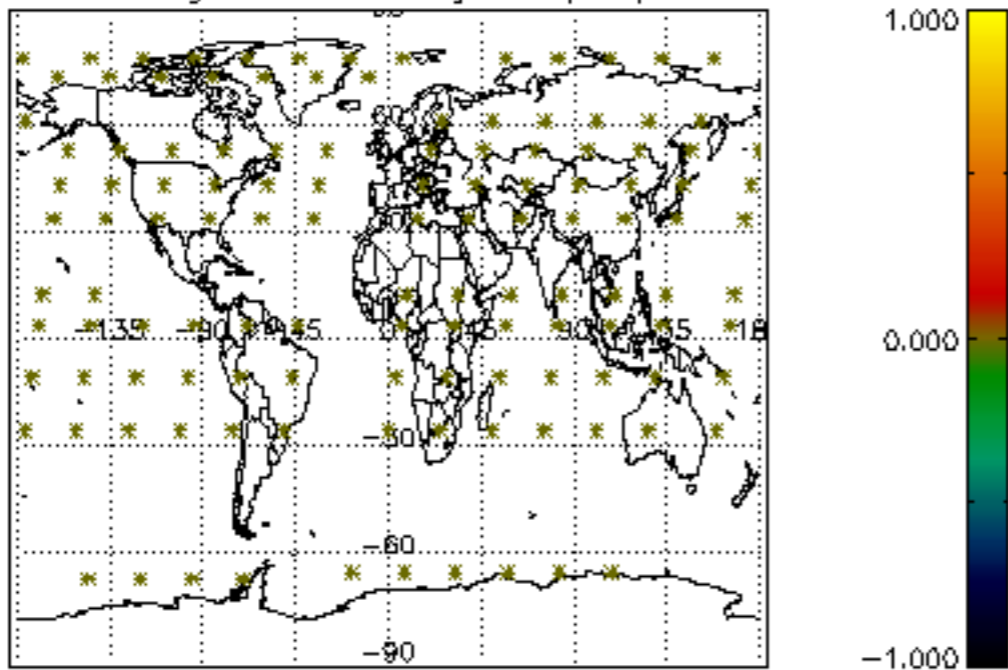
Percentage of star falling outside central band per profile



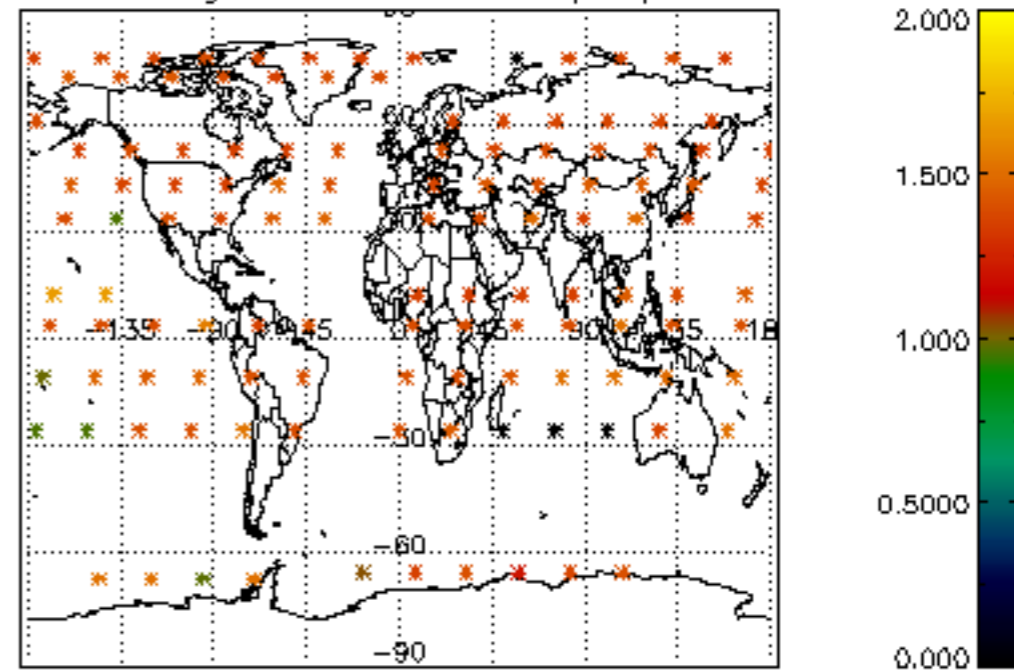
Percentage of saturation errors per profile



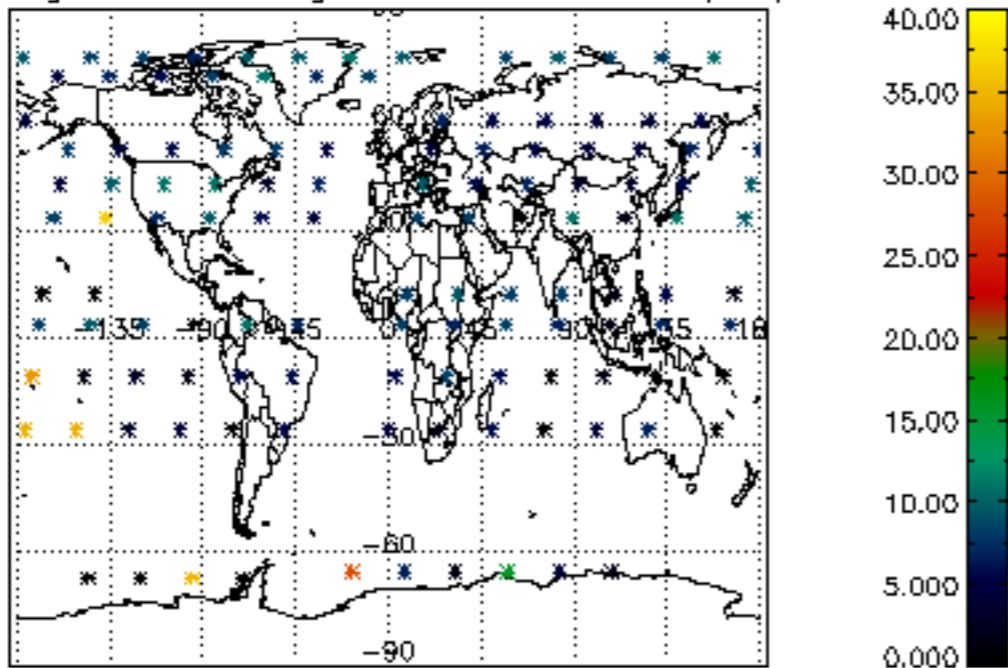
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

