

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	18APR2013 11:29:17
Data source version	GOMOS/6.01
Start time of products	08-10-2005 (08OCT2005 00:00:00)
Stop time of products	09-10-2005 (09OCT2005 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	197
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

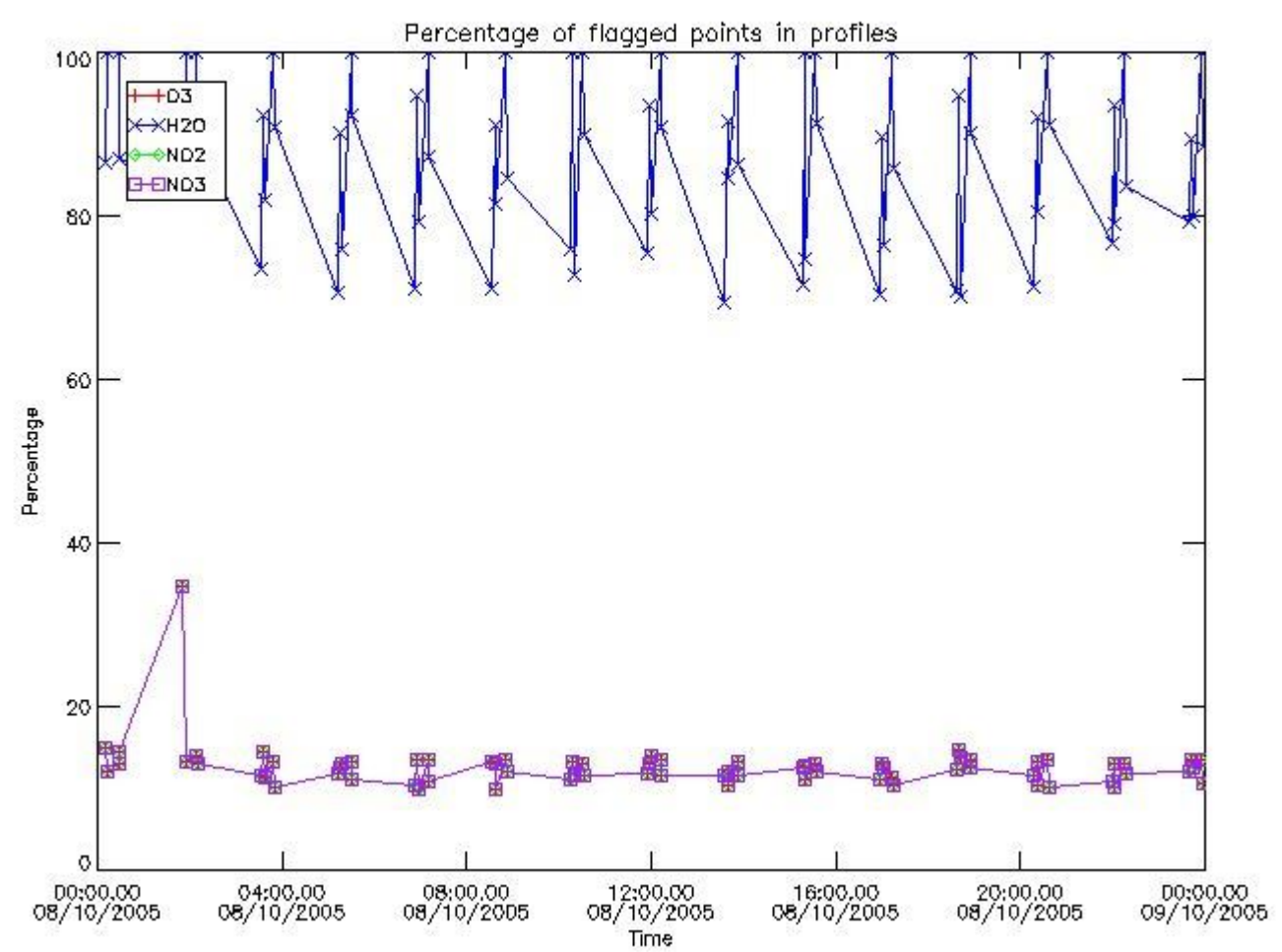
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20051008_001036_000000412041_00259_18850_7422.N1	08-OCT-2005 00:10:36	Dark	41.000	65	Lam Vel	2.2040	4400.0	82	18850	No
2	GOM_NL__2PRFIN20051008_001350_000000472041_00259_18850_7423.N1	08-OCT-2005 00:13:50	Dark	46.500	46	Del Vel	1.9540	10600.	93	18850	No
3	GOM_NL__2PRFIN20051008_002735_000000392041_00260_18851_7410.N1	08-OCT-2005 00:27:35	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	18851	No
4	GOM_NL__2PRFIN20051008_002902_000000432041_00260_18851_7411.N1	08-OCT-2005 00:29:02	Dark	42.500	9	Alp Eri	0.45300	24000.	85	18851	No
5	GOM_NL__2PRFIN20051008_003414_000000392041_00260_18851_7412.N1	08-OCT-2005 00:34:14	Straylight	38.500	84	Alp Phe	2.3970	4500.0	77	18851	No
6	GOM_NL__2PRFIN20051008_005104_000000372041_00260_18851_7413.N1	08-OCT-2005 00:51:04	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	18851	No
7	GOM_NL__2PRFIN20051008_005438_000000382041_00260_18851_7414.N1	08-OCT-2005 00:54:38	Bright	37.500	93	53Bet Peg	2.5200	3100.0	75	18851	No
8	GOM_NL__2PRFIN20051008_010510_000000352041_00260_18851_7415.N1	08-OCT-2005 01:05:10	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	18851	No
9	GOM_NL__2PRFIN20051008_011153_000000352041_00260_18851_7416.N1	08-OCT-2005 01:11:53	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	18851	No
10	GOM_NL__2PRFIN20051008_011425_000000362041_00260_18851_7417.N1	08-OCT-2005 01:14:25	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	18851	No
11	GOM_NL__2PRFIN20051008_012001_000000372041_00260_18851_7418.N1	08-OCT-2005 01:20:01	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	18851	No
12	GOM_NL__2PRFIN20051008_012133_000000352041_00260_18851_7419.N1	08-OCT-2005 01:21:33	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	18851	No
13	GOM_NL__2PRFIN20051008_012450_000000522041_00260_18851_7420.N1	08-OCT-2005 01:24:50	Bright	51.500	174	52Psi UMa	3.0040	4400.0	103	18851	No
14	GOM_NL__2PRFIN20051008_015112_000000412041_00260_18851_7421.N1	08-OCT-2005 01:51:12	Dark	41.000	65	Lam Vel	2.2040	4400.0	82	18851	No
15	GOM_NL__2PRFIN20051008_015426_000000392041_00260_18851_7422.N1	08-OCT-2005 01:54:26	Dark	38.500	46	Del Vel	1.9540	10600.	77	18851	No
16	GOM_NL__2PRFIN20051008_020811_000000402041_00261_18852_7410.N1	08-OCT-2005 02:08:11	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	18852	No
17	GOM_NL__2PRFIN20051008_020939_000000402041_00261_18852_7411.N1	08-OCT-2005 02:09:39	Dark	39.500	9	Alp Eri	0.45300	24000.	79	18852	No
18	GOM_NL__2PRFIN20051008_021450_000000382041_00261_18852_7412.N1	08-OCT-2005 02:14:50	Straylight	37.500	84	Alp Phe	2.3970	4500.0	75	18852	No
19	GOM_NL__2PRFIN20051008_023140_000000362041_00261_18852_7413.N1	08-OCT-2005 02:31:40	Bright	35.500	90	54Alp Peg	2.4870	11000.	71	18852	No
20	GOM_NL__2PRFIN20051008_023514_000000392041_00261_18852_7414.N1	08-OCT-2005 02:35:14	Bright	38.500	93	53Bet Peg	2.5200	3100.0	77	18852	No
21	GOM_NL__2PRFIN20051008_024546_000000362041_00261_18852_7415.N1	08-OCT-2005 02:45:46	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	18852	No
22	GOM_NL__2PRFIN20051008_025229_000000342041_00261_18852_7416.N1	08-OCT-2005 02:52:29	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	18852	No
23	GOM_NL__2PRFIN20051008_025501_000000372041_00261_18852_7417.N1	08-OCT-2005 02:55:01	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	18852	No
24	GOM_NL__2PRFIN20051008_030037_000000342041_00261_18852_7418.N1	08-OCT-2005 03:00:37	Bright	34.000	36	50Alp UMa	1.8000	6300.0	68	18852	No
25	GOM_NL__2PRFIN20051008_030209_000000352041_00261_18852_7419.N1	08-OCT-2005 03:02:09	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	18852	No
26	GOM_NL__2PRFIN20051008_030526_000000352041_00261_18852_7420.N1	08-OCT-2005 03:05:26	Bright	35.000	174	52Psi UMa	3.0040	4400.0	70	18852	No
27	GOM_NL__2PRFIN20051008_033149_000000442041_00261_18852_7421.N1	08-OCT-2005 03:31:49	Dark	44.000	65	Lam Vel	2.2040	4400.0	88	18852	No
28	GOM_NL__2PRFIN20051008_033503_000000392041_00261_18852_7422.N1	08-OCT-2005 03:35:03	Dark	39.000	46	Del Vel	1.9540	10600.	78	18852	No
29	GOM_NL__2PRFIN20051008_033638_000000452041_00262_18853_7410.N1	08-OCT-2005 03:36:38	Dark	45.000	41	Eps Car	1.8600	4100.0	90	18853	No
30	GOM_NL__2PRFIN20051008_034848_000000392041_00262_18853_7411.N1	08-OCT-2005 03:48:48	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	18853	No
31	GOM_NL__2PRFIN20051008_035015_000000502041_00262_18853_7412.N1	08-OCT-2005 03:50:15	Dark	50.000	9	Alp Eri	0.45300	24000.	100	18853	No
32	GOM_NL__2PRFIN20051008_035526_000000412041_00262_18853_7413.N1	08-OCT-2005 03:55:26	Straylight	41.000	84	Alp Phe	2.3970	4500.0	82	18853	No
33	GOM_NL__2PRFIN20051008_041216_000000362041_00262_18853_7414.N1	08-OCT-2005 04:12:16	Bright	36.000	90	54Alp Peg	2.4870	11000.	72	18853	No
34	GOM_NL__2PRFIN20051008_041550_000000382041_00262_18853_7415.N1	08-OCT-2005 04:15:50	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	18853	No
35	GOM_NL__2PRFIN20051008_042622_000000352041_00262_18853_7416.N1	08-OCT-2005 04:26:22	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	18853	No
36	GOM_NL__2PRFIN20051008_043305_000000352041_00262_18853_7417.N1	08-OCT-2005 04:33:05	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	18853	No
37	GOM_NL__2PRFIN20051008_043537_000000372041_00262_18853_7418.N1	08-OCT-2005 04:35:37	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	18853	No
38	GOM_NL__2PRFIN20051008_044113_000000372041_00262_18853_7419.N1	08-OCT-2005 04:41:13	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	18853	No
39	GOM_NL__2PRFIN20051008_044245_000000342041_00262_18853_7420.N1	08-OCT-2005 04:42:45	Bright	33.500	82	48Bet UMa	2.3650	10600.	67	18853	No
40	GOM_NL__2PRFIN20051008_044602_000000342041_00262_18853_7421.N1	08-OCT-2005 04:46:02	Bright	34.000	174	52Psi UMa	3.0040	4400.0	68	18853	No
41	GOM_NL__2PRFIN20051008_051225_000000432041_00262_18853_7422.N1	08-OCT-2005 05:12:25	Dark	43.000	65	Lam Vel	2.2040	4400.0	86	18853	No
42	GOM_NL__2PRFIN20051008_051539_000000412041_00262_18853_7423.N1	08-OCT-2005 05:15:39	Dark	40.500	46	Del Vel	1.9540	10600.	81	18853	No

161	GOM_NL__2PRFIN20051008_194103_000000362041_00271_18862_7443.N1	08-OCT-2005 19:41:03	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	18862	No
162	GOM_NL__2PRFIN20051008_194637_000000352041_00271_18862_7444.N1	08-OCT-2005 19:46:37	Bright	34.500	36	50Alp UMa	1.8000	6300.0	69	18862	No
163	GOM_NL__2PRFIN20051008_194809_000000332041_00271_18862_7445.N1	08-OCT-2005 19:48:09	Bright	32.500	82	48Bet UMa	2.3650	10600.	65	18862	No
164	GOM_NL__2PRFIN20051008_195127_000000342041_00271_18862_7446.N1	08-OCT-2005 19:51:27	Bright	34.000	174	52Psi UMa	3.0040	4400.0	68	18862	No
165	GOM_NL__2PRFIN20051008_201753_000000442041_00271_18862_7447.N1	08-OCT-2005 20:17:53	Dark	44.000	65	Lam Vel	2.2040	4400.0	88	18862	No
166	GOM_NL__2PRFIN20051008_202107_000000392041_00271_18862_7448.N1	08-OCT-2005 20:21:07	Dark	38.500	46	Del Vel	1.9540	10600.	77	18862	No
167	GOM_NL__2PRFIN20051008_202242_000000492041_00272_18863_7436.N1	08-OCT-2005 20:22:42	Dark	49.000	41	Eps Car	1.8600	4100.0	98	18863	No
168	GOM_NL__2PRFIN20051008_203451_000000382041_00272_18863_7437.N1	08-OCT-2005 20:34:51	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	18863	No
169	GOM_NL__2PRFIN20051008_203618_000000502041_00272_18863_7438.N1	08-OCT-2005 20:36:18	Dark	50.000	9	Alp Eri	0.45300	24000.	100	18863	No
170	GOM_NL__2PRFIN20051008_204128_000000422041_00272_18863_7439.N1	08-OCT-2005 20:41:28	Straylight	42.000	84	Alp Phe	2.3970	4500.0	84	18863	No
171	GOM_NL__2PRFIN20051008_205817_000000352041_00272_18863_7440.N1	08-OCT-2005 20:58:17	Bright	35.000	90	54Alp Peg	2.4870	11000.	70	18863	No
172	GOM_NL__2PRFIN20051008_210151_000000352041_00272_18863_7441.N1	08-OCT-2005 21:01:51	Bright	35.000	93	53Bet Peg	2.5200	3100.0	70	18863	No
173	GOM_NL__2PRFIN20051008_211224_000000372041_00272_18863_7442.N1	08-OCT-2005 21:12:24	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	18863	No
174	GOM_NL__2PRFIN20051008_211905_000000352041_00272_18863_7443.N1	08-OCT-2005 21:19:05	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	18863	No
175	GOM_NL__2PRFIN20051008_212140_000000332041_00272_18863_7444.N1	08-OCT-2005 21:21:40	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	18863	No
176	GOM_NL__2PRFIN20051008_212713_000000372041_00272_18863_7445.N1	08-OCT-2005 21:27:13	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	18863	No
177	GOM_NL__2PRFIN20051008_212845_000000462041_00272_18863_7446.N1	08-OCT-2005 21:28:45	Bright	45.500	82	48Bet UMa	2.3650	10600.	91	18863	No
178	GOM_NL__2PRFIN20051008_213203_000000362041_00272_18863_7447.N1	08-OCT-2005 21:32:03	Bright	35.500	174	52Psi UMa	3.0040	4400.0	71	18863	No
179	GOM_NL__2PRFIN20051008_215830_000000482041_00272_18863_7448.N1	08-OCT-2005 21:58:30	Dark	47.500	65	Lam Vel	2.2040	4400.0	95	18863	No
180	GOM_NL__2PRFIN20051008_220143_000000402041_00272_18863_7449.N1	08-OCT-2005 22:01:43	Dark	39.500	46	Del Vel	1.9540	10600.	79	18863	No
181	GOM_NL__2PRFIN20051008_220318_000000512041_00273_18864_7481.N1	08-OCT-2005 22:03:18	Dark	50.500	41	Eps Car	1.8600	4100.0	101	18864	No
182	GOM_NL__2PRFIN20051008_221527_000000402041_00273_18864_7482.N1	08-OCT-2005 22:15:27	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	18864	No
183	GOM_NL__2PRFIN20051008_221654_000000432041_00273_18864_7483.N1	08-OCT-2005 22:16:54	Dark	43.000	9	Alp Eri	0.45300	24000.	86	18864	No
184	GOM_NL__2PRFIN20051008_222204_000000422041_00273_18864_7484.N1	08-OCT-2005 22:22:04	Straylight	41.500	84	Alp Phe	2.3970	4500.0	83	18864	No
185	GOM_NL__2PRFIN20051008_223853_000000372041_00273_18864_7485.N1	08-OCT-2005 22:38:53	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	18864	No
186	GOM_NL__2PRFIN20051008_224227_000000372041_00273_18864_7486.N1	08-OCT-2005 22:42:27	Bright	37.000	93	53Bet Peg	2.5200	3100.0	74	18864	No
187	GOM_NL__2PRFIN20051008_225301_000000362041_00273_18864_7487.N1	08-OCT-2005 22:53:01	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	18864	No
188	GOM_NL__2PRFIN20051008_225941_000000372041_00273_18864_7488.N1	08-OCT-2005 22:59:41	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	18864	No
189	GOM_NL__2PRFIN20051008_230216_000000362041_00273_18864_7489.N1	08-OCT-2005 23:02:16	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	18864	No
190	GOM_NL__2PRFIN20051008_230749_000000372041_00273_18864_7490.N1	08-OCT-2005 23:07:49	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	18864	No
191	GOM_NL__2PRFIN20051008_230921_000000352041_00273_18864_7491.N1	08-OCT-2005 23:09:21	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	18864	No
192	GOM_NL__2PRFIN20051008_231239_000000412041_00273_18864_7492.N1	08-OCT-2005 23:12:39	Bright	40.500	174	52Psi UMa	3.0040	4400.0	81	18864	No
193	GOM_NL__2PRFIN20051008_233906_000000472041_00273_18864_7493.N1	08-OCT-2005 23:39:06	Dark	46.500	65	Lam Vel	2.2040	4400.0	93	18864	No
194	GOM_NL__2PRFIN20051008_234219_000000382041_00273_18864_7494.N1	08-OCT-2005 23:42:19	Dark	38.000	46	Del Vel	1.9540	10600.	76	18864	No
195	GOM_NL__2PRFIN20051008_234354_000000412041_00274_18865_7483.N1	08-OCT-2005 23:43:54	Dark	40.500	41	Eps Car	1.8600	4100.0	81	18865	No
196	GOM_NL__2PRFIN20051008_235603_000000382041_00274_18865_7484.N1	08-OCT-2005 23:56:03	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	18865	No
197	GOM_NL__2PRFIN20051008_235730_000000482041_00274_18865_7485.N1	08-OCT-2005 23:57:30	Dark	48.000	9	Alp Eri	0.45300	24000.	96	18865	No

3. Quality information per product

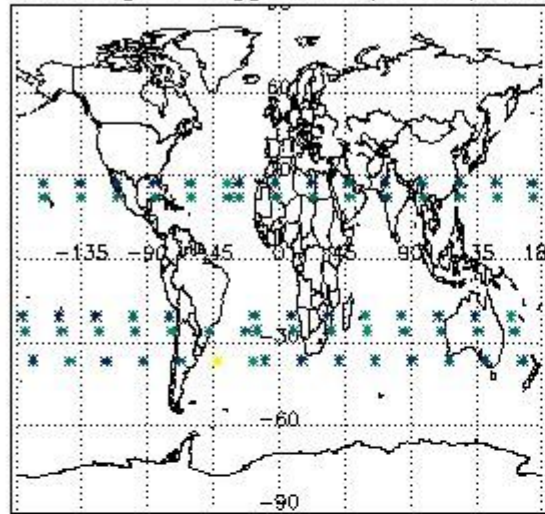
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

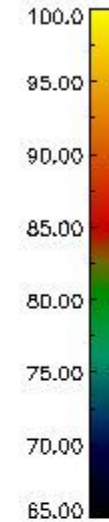
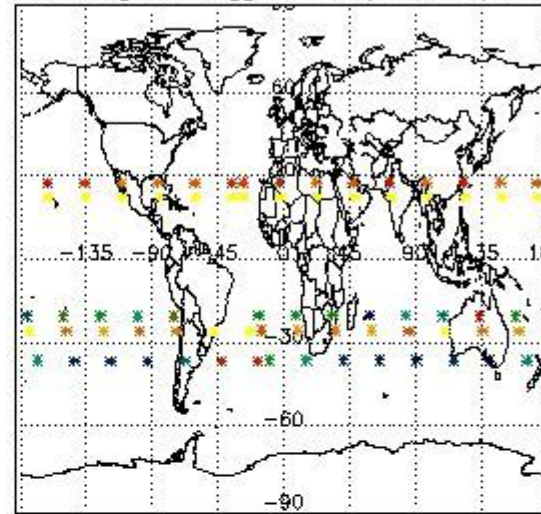


3.2 Plot quality information per product (world map)

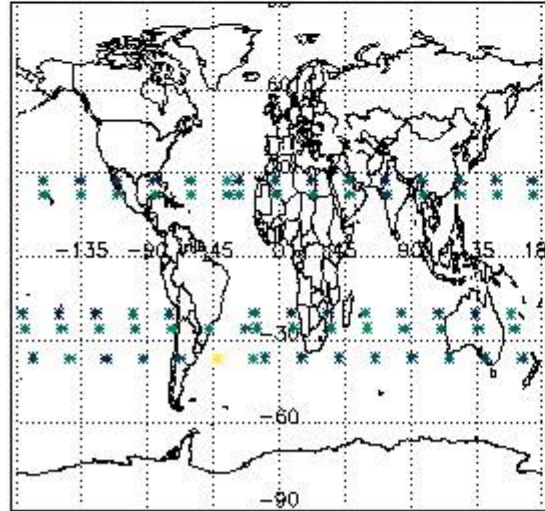
Percentage of flagged data per O3 profile



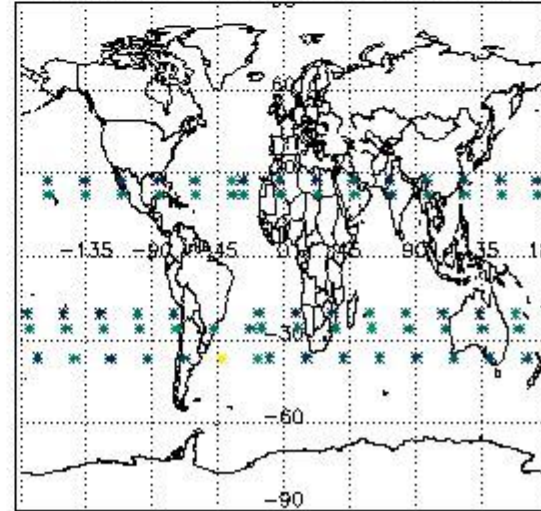
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

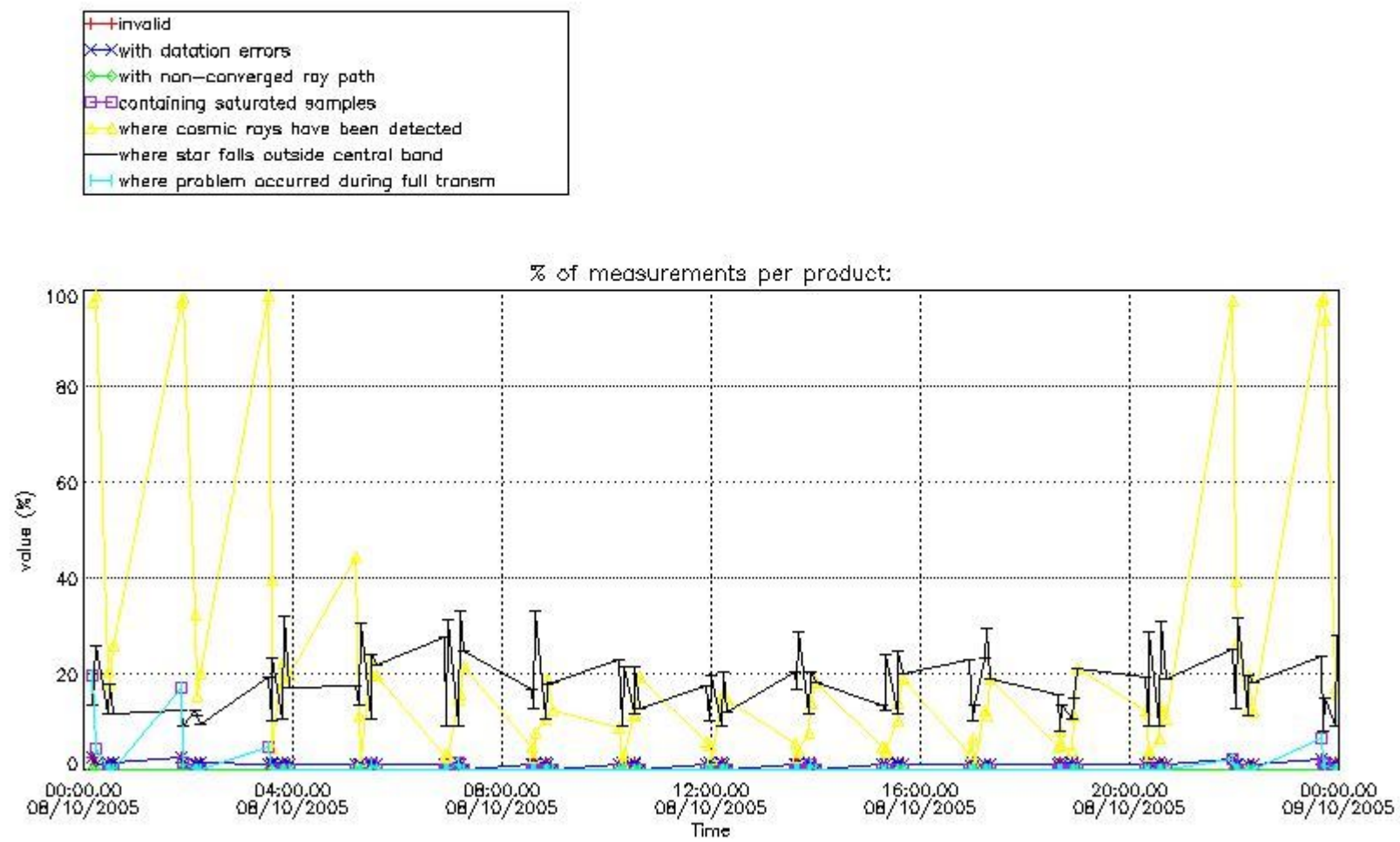


4. Level 1 quality information per product

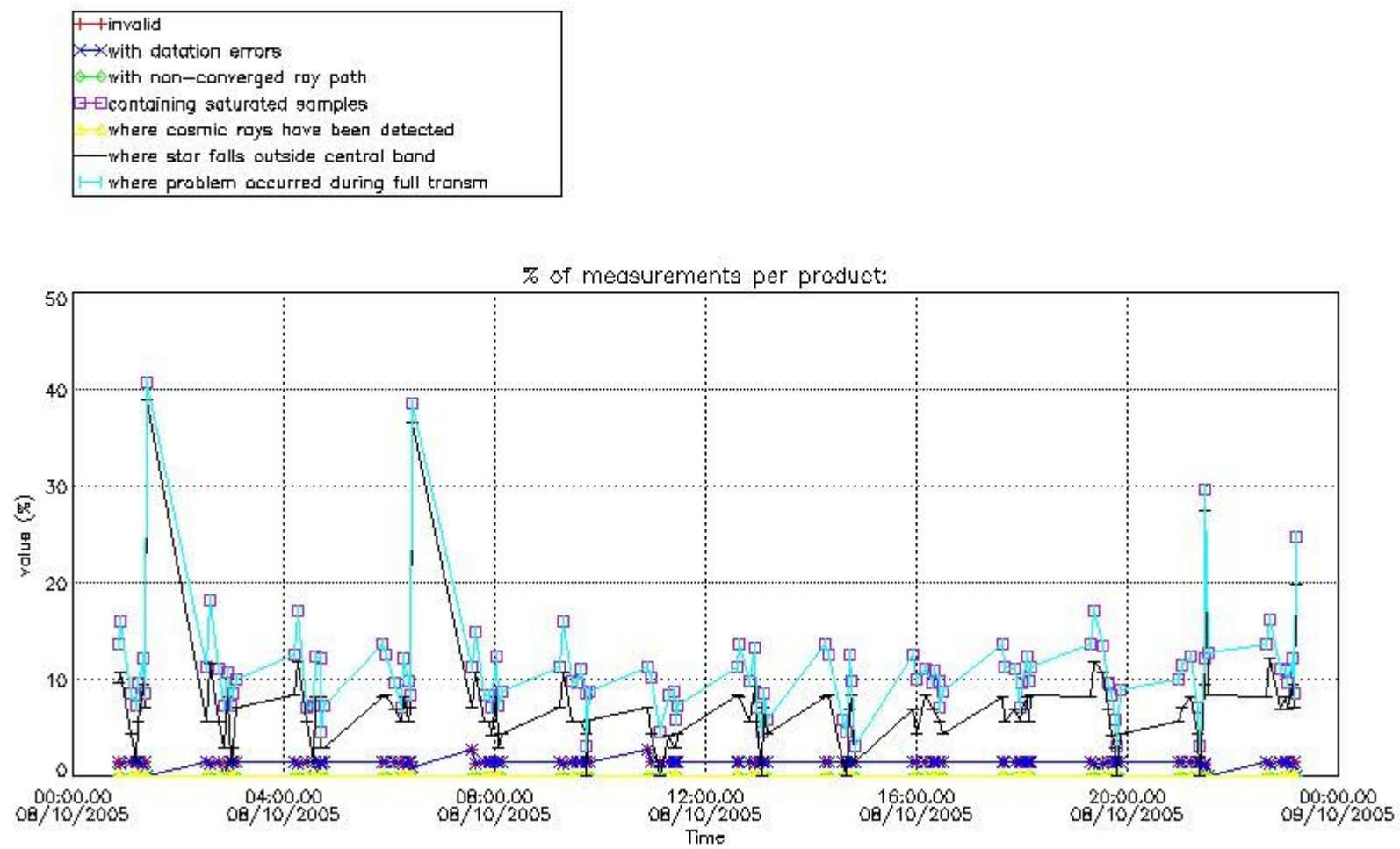
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



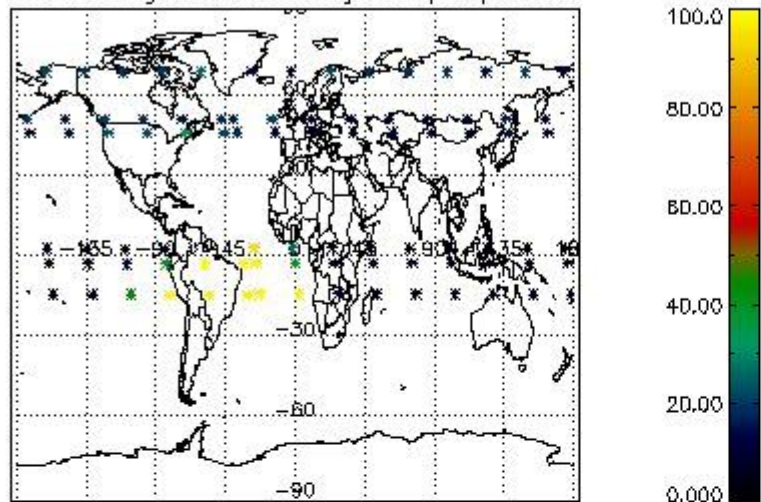
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



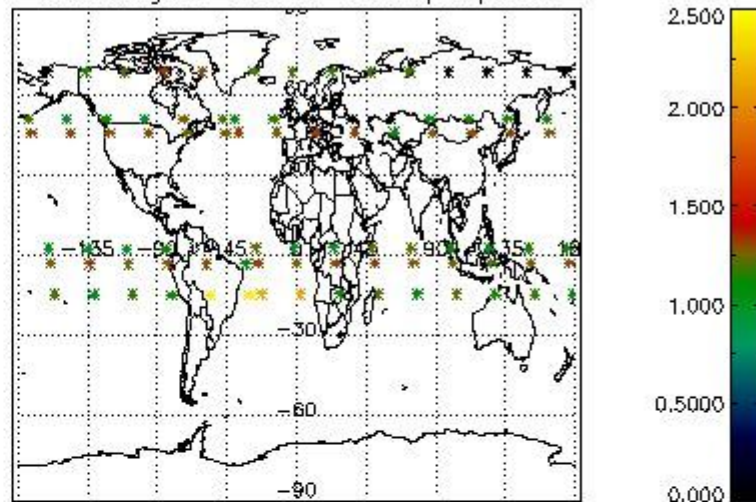
4.2 Plot quality information per product coming from level 1b processing (world map)

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

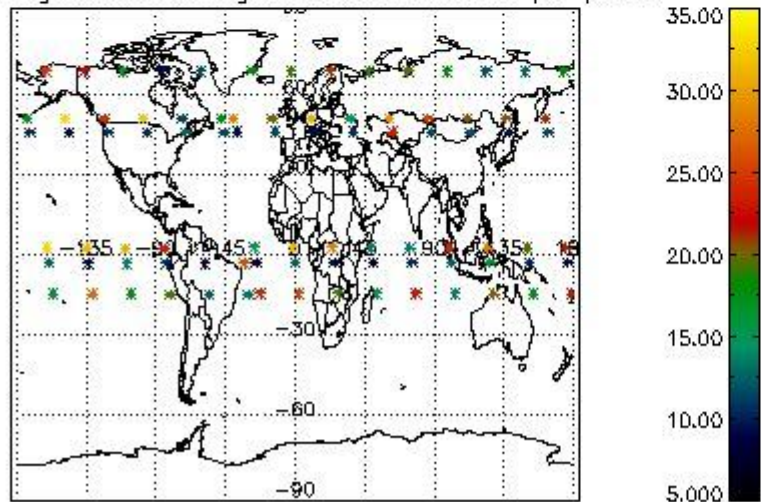
Percentage of cosmic ray hits per profile



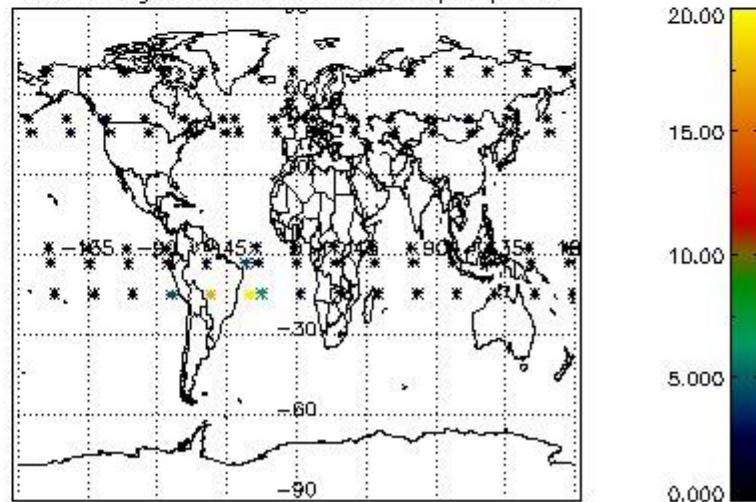
Percentage of datation errors per profile



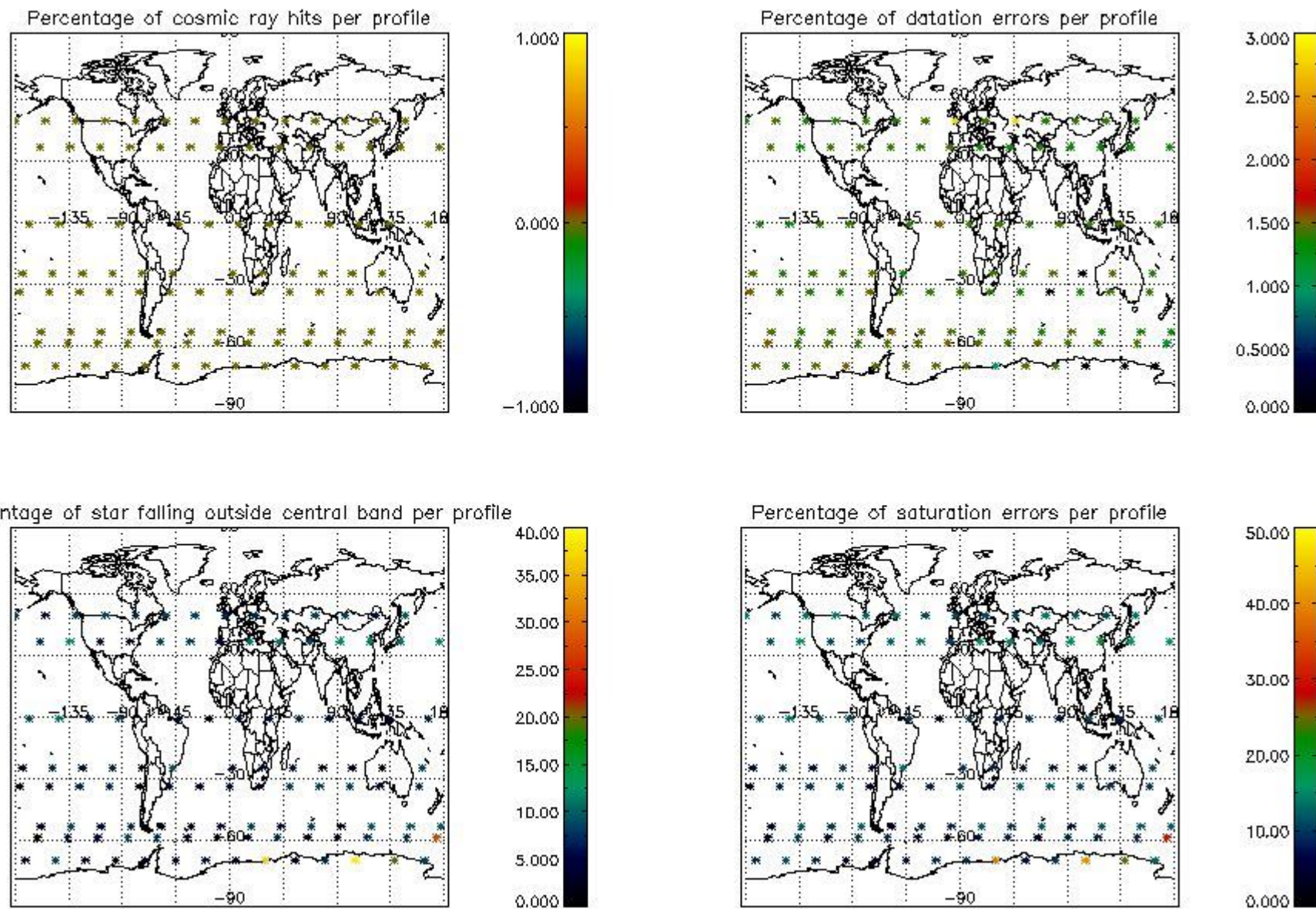
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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

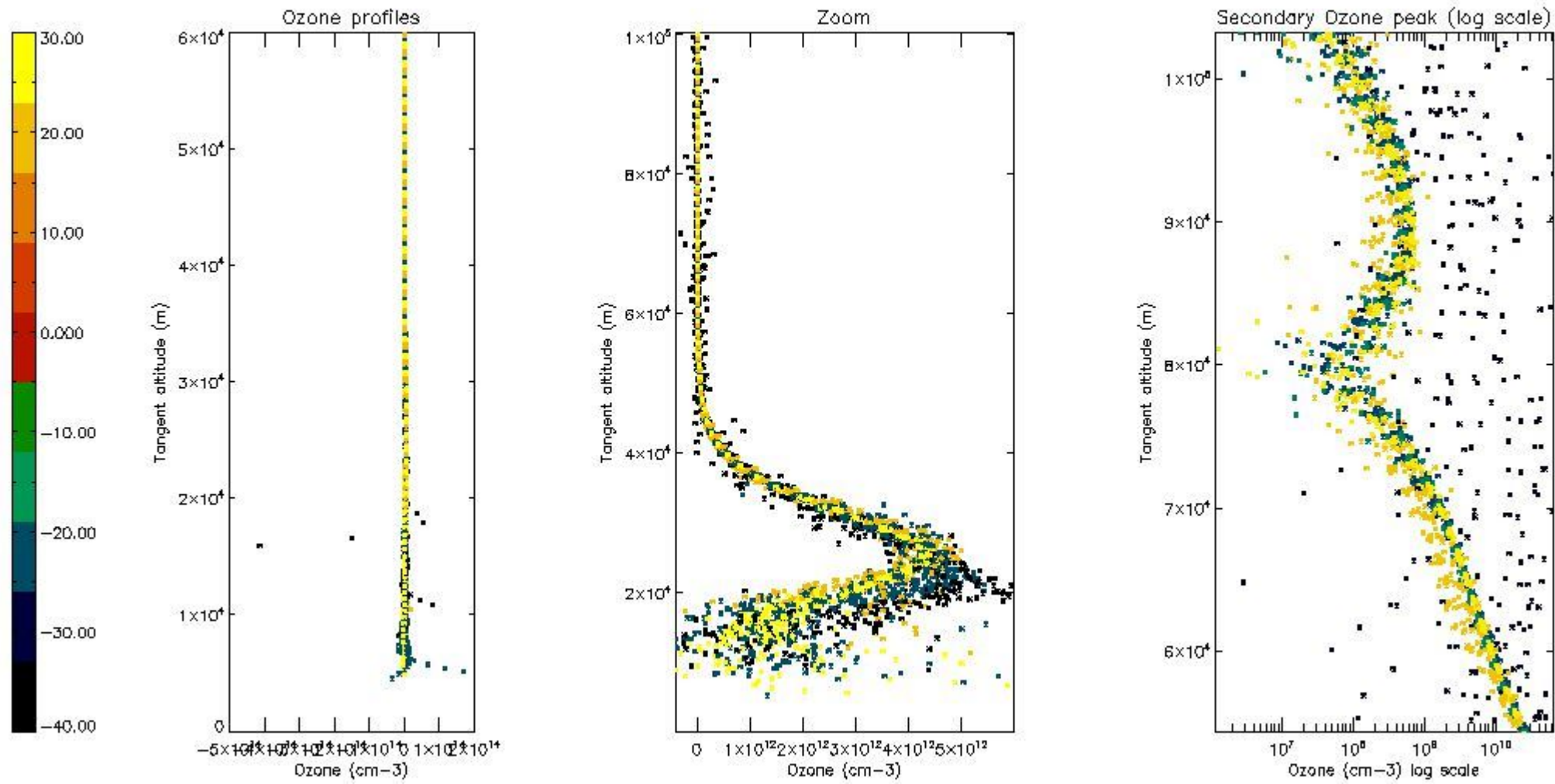
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	42
STD < 20	23

STD < 10	17
STD < 5	9

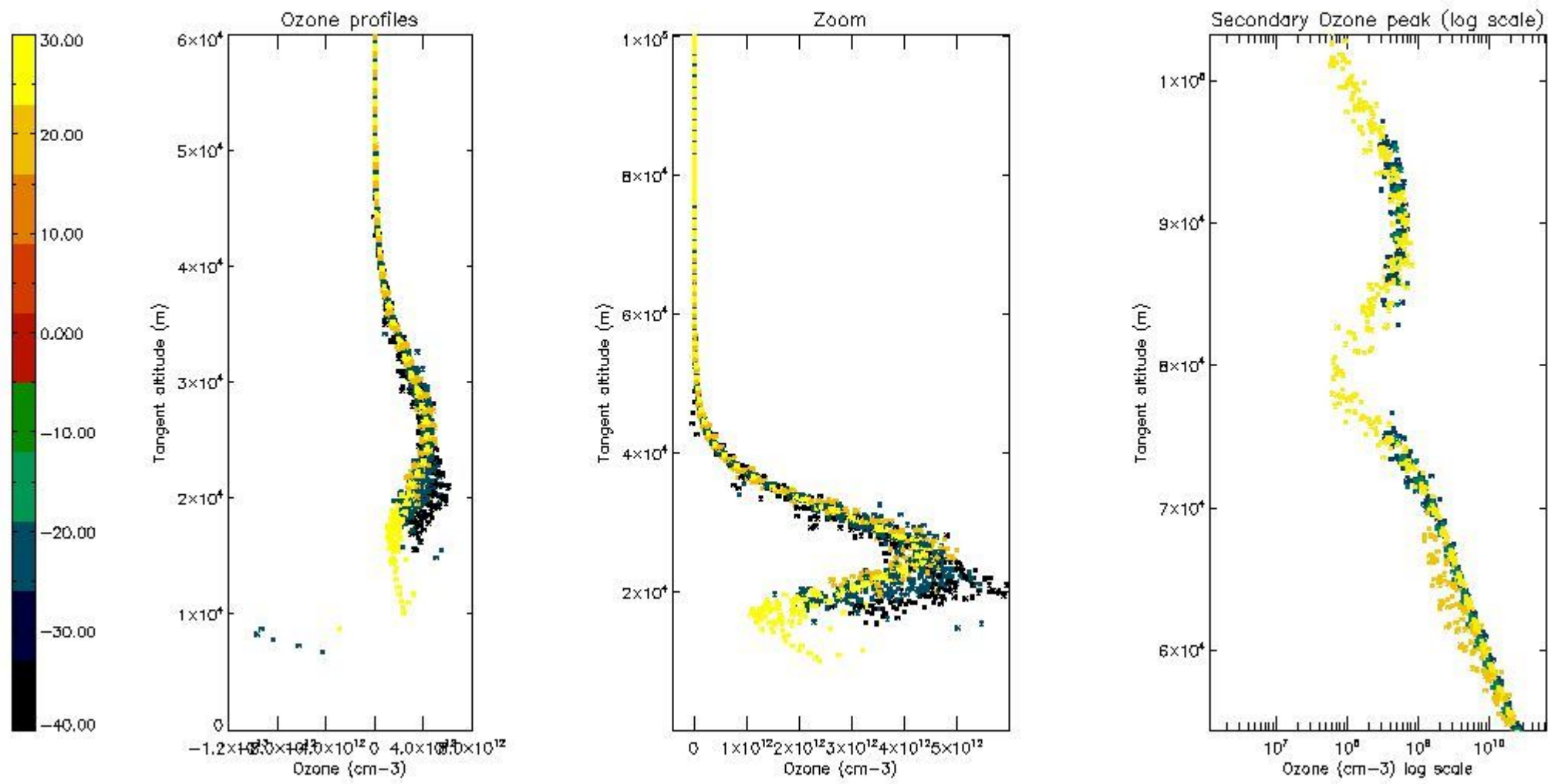
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



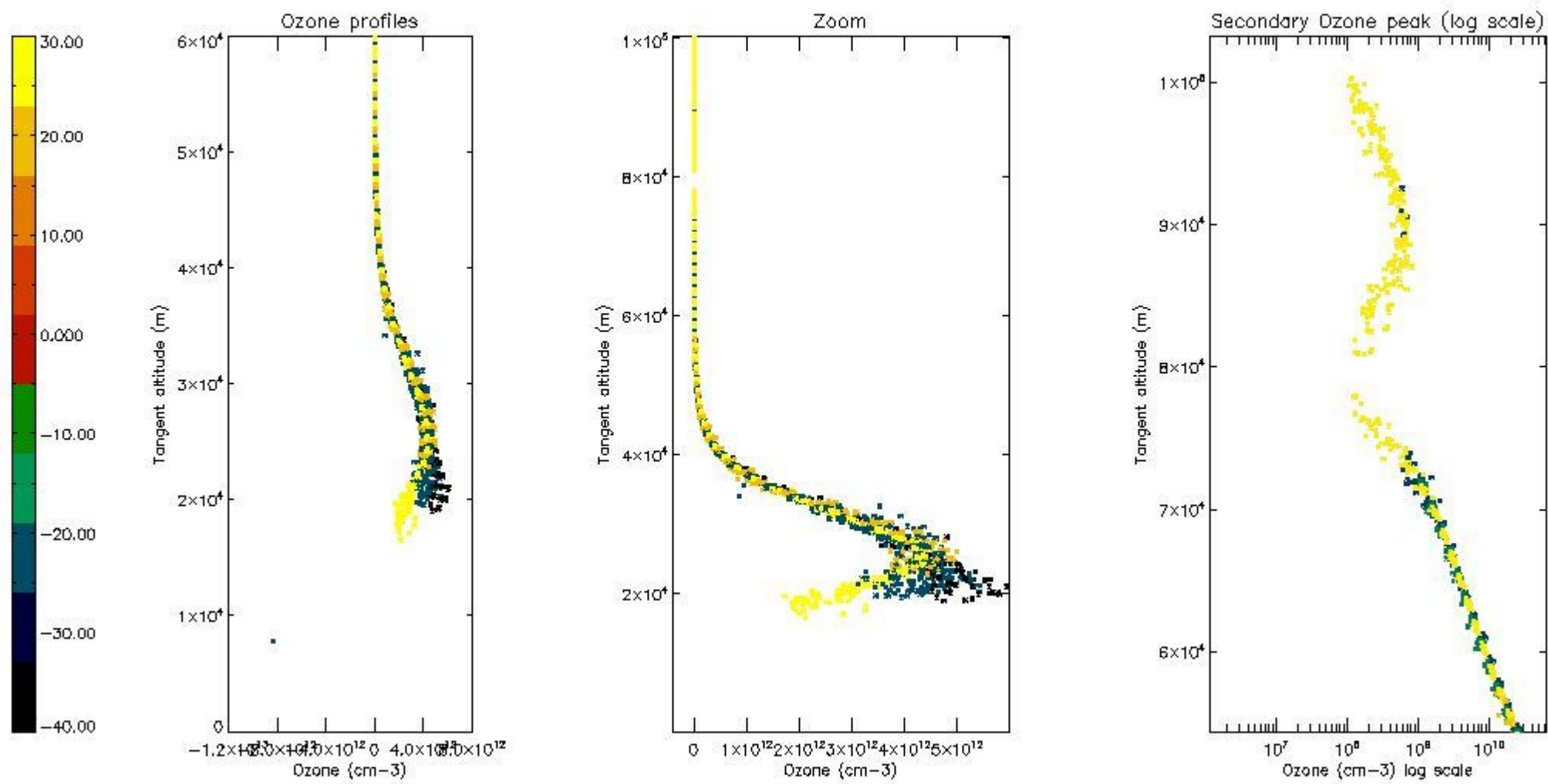
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



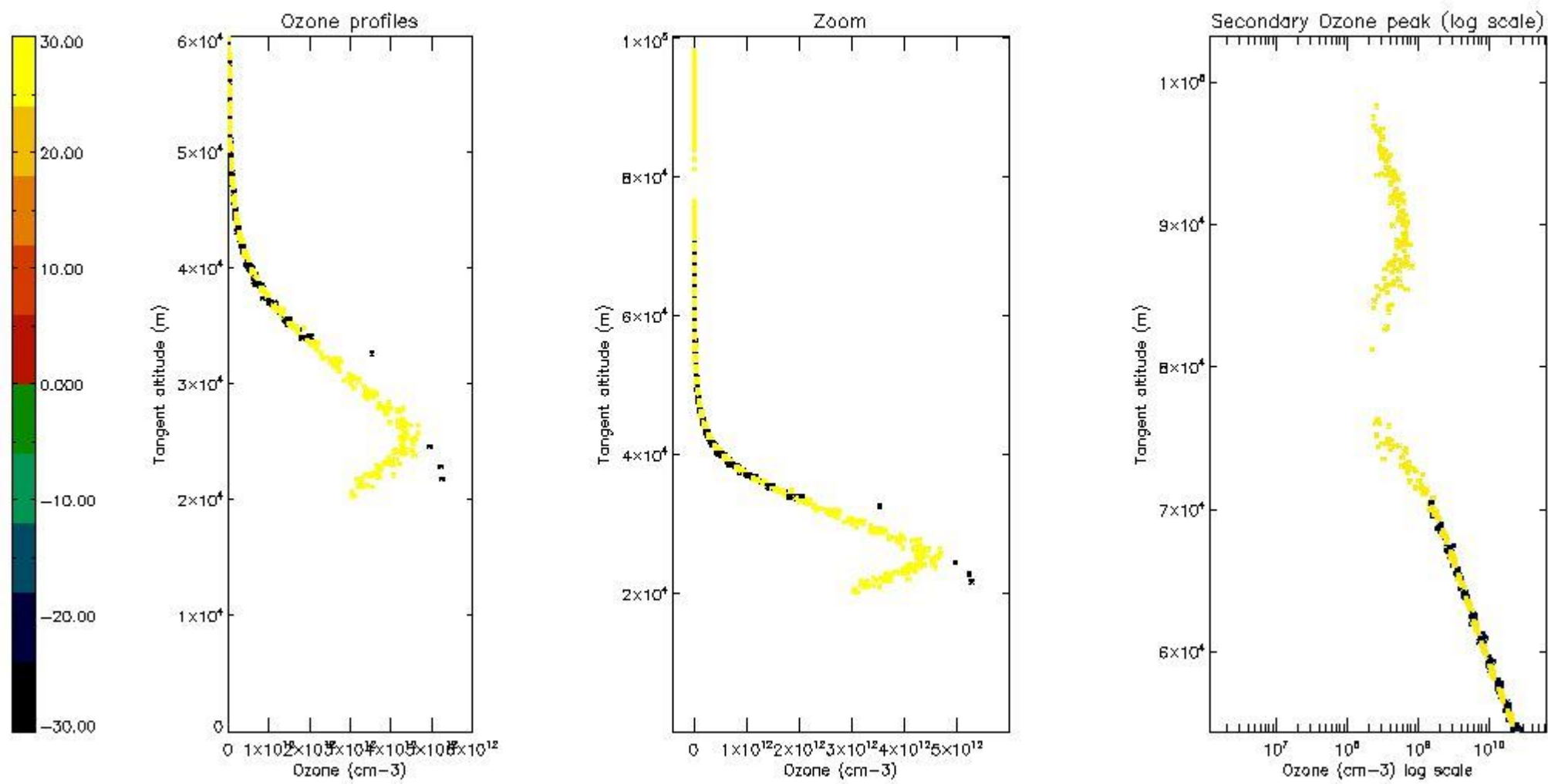
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



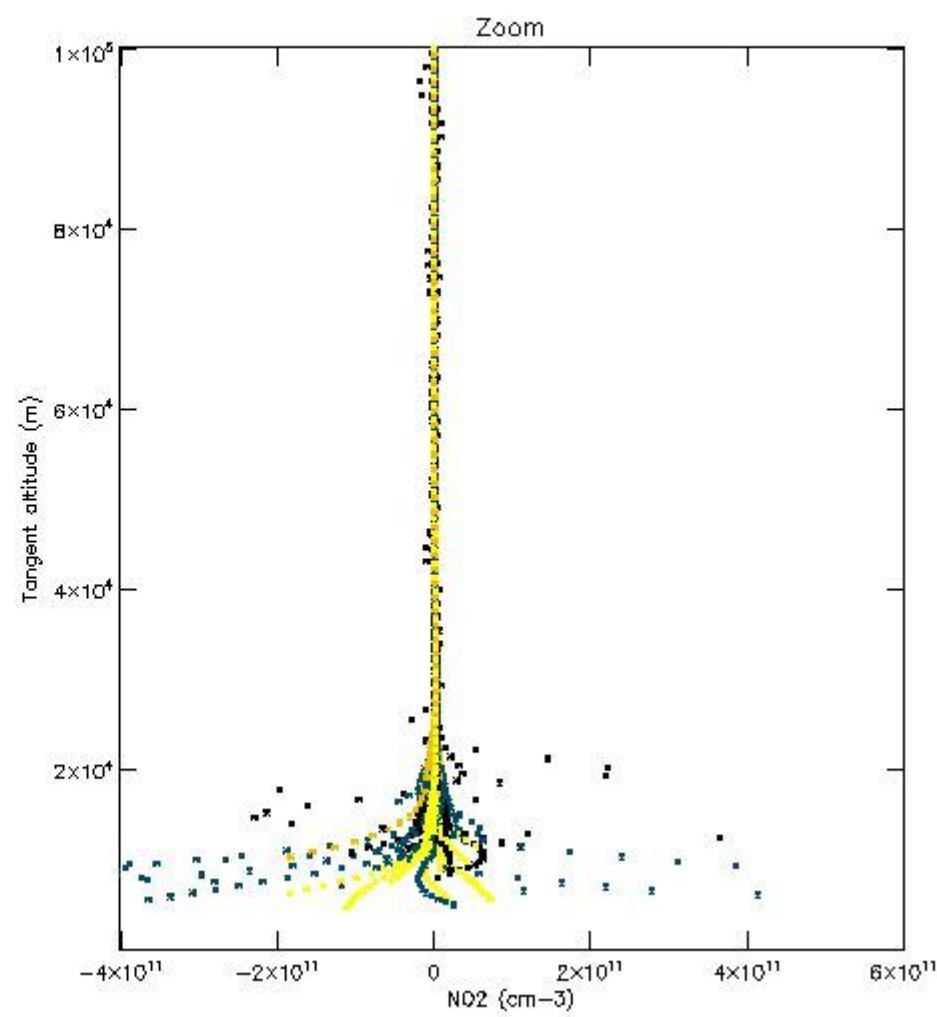
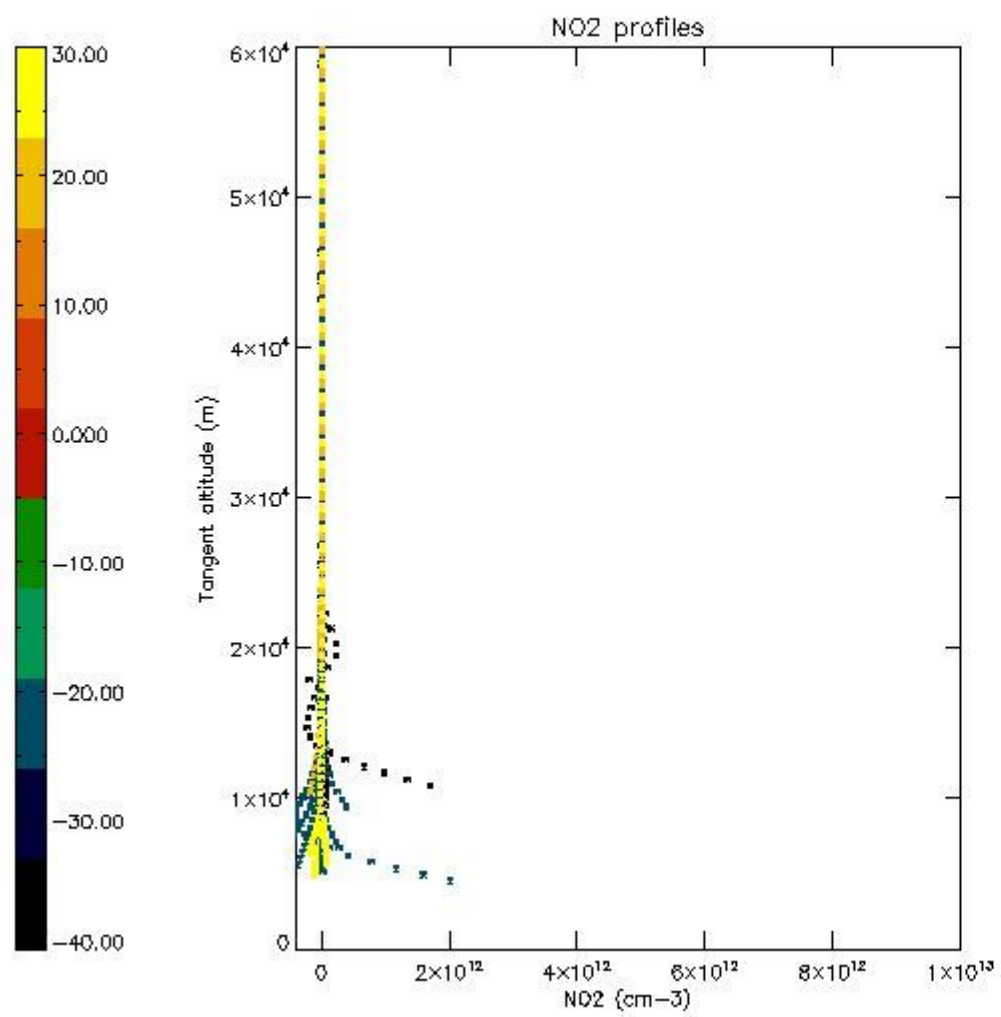
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



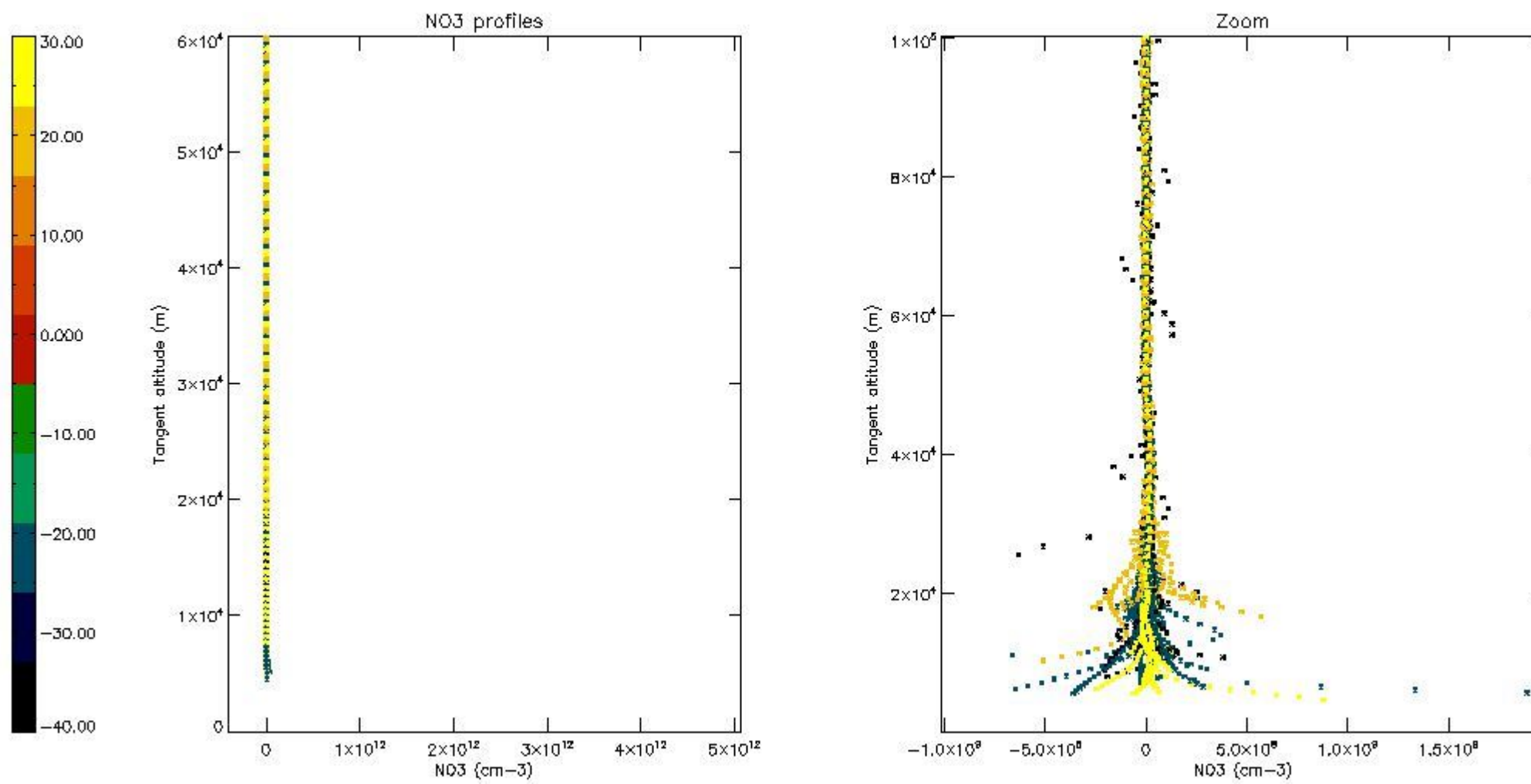
5.6 Plot NO₂ profiles for all STD (dark without errors)

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	08-OCT-2005 00:10:36
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	08-OCT-2005 00:10:36
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	08-OCT-2005 00:10:36

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

[2. Summary of processed GOM_NL_2P products](#)

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

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[3.2 Plot of level 2 quality information per product \(world map\)](#)

[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](#)

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

[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](#)

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

[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	18APR2013 11:29:17
Data source version	GOMOS/6.01
Start time of products	08-10-2005 (08OCT2005 00:00:00)
Stop time of products	09-10-2005 (09OCT2005 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	197
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

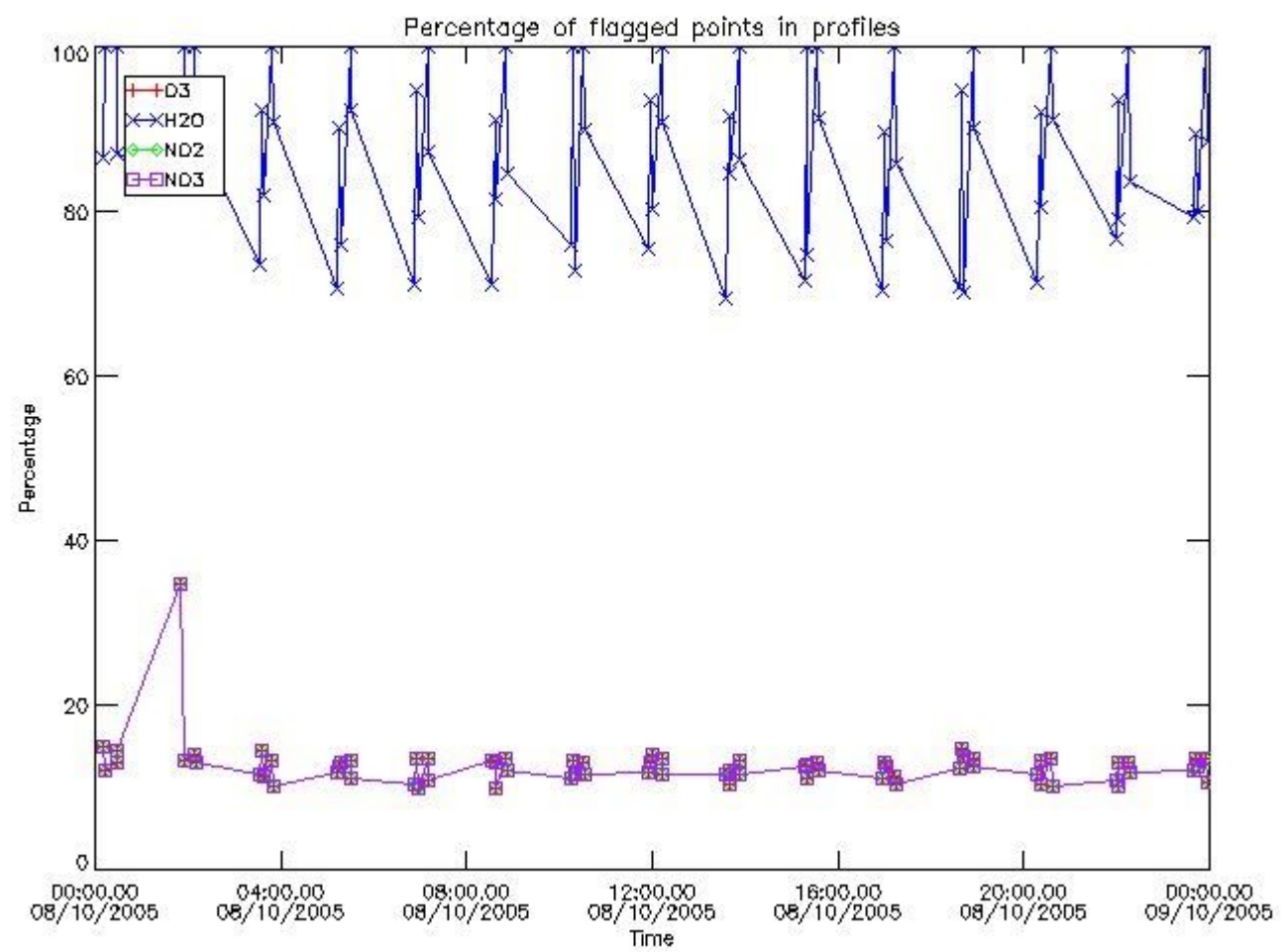
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20051008_001036_000000412041_00259_18850_7422.N1	08-OCT-2005 00:10:36	Dark	41.000	65	Lam Vel	2.2040	4400.0	82	18850	No
2	GOM_NL__2PRFIN20051008_001350_000000472041_00259_18850_7423.N1	08-OCT-2005 00:13:50	Dark	46.500	46	Del Vel	1.9540	10600.	93	18850	No
3	GOM_NL__2PRFIN20051008_002735_000000392041_00260_18851_7410.N1	08-OCT-2005 00:27:35	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	18851	No
4	GOM_NL__2PRFIN20051008_002902_000000432041_00260_18851_7411.N1	08-OCT-2005 00:29:02	Dark	42.500	9	Alp Eri	0.45300	24000.	85	18851	No
5	GOM_NL__2PRFIN20051008_003414_000000392041_00260_18851_7412.N1	08-OCT-2005 00:34:14	Straylight	38.500	84	Alp Phe	2.3970	4500.0	77	18851	No
6	GOM_NL__2PRFIN20051008_005104_000000372041_00260_18851_7413.N1	08-OCT-2005 00:51:04	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	18851	No
7	GOM_NL__2PRFIN20051008_005438_000000382041_00260_18851_7414.N1	08-OCT-2005 00:54:38	Bright	37.500	93	53Bet Peg	2.5200	3100.0	75	18851	No
8	GOM_NL__2PRFIN20051008_010510_000000352041_00260_18851_7415.N1	08-OCT-2005 01:05:10	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	18851	No
9	GOM_NL__2PRFIN20051008_011153_000000352041_00260_18851_7416.N1	08-OCT-2005 01:11:53	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	18851	No
10	GOM_NL__2PRFIN20051008_011425_000000362041_00260_18851_7417.N1	08-OCT-2005 01:14:25	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	18851	No
11	GOM_NL__2PRFIN20051008_012001_000000372041_00260_18851_7418.N1	08-OCT-2005 01:20:01	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	18851	No
12	GOM_NL__2PRFIN20051008_012133_000000352041_00260_18851_7419.N1	08-OCT-2005 01:21:33	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	18851	No
13	GOM_NL__2PRFIN20051008_012450_000000522041_00260_18851_7420.N1	08-OCT-2005 01:24:50	Bright	51.500	174	52Psi UMa	3.0040	4400.0	103	18851	No
14	GOM_NL__2PRFIN20051008_015112_000000412041_00260_18851_7421.N1	08-OCT-2005 01:51:12	Dark	41.000	65	Lam Vel	2.2040	4400.0	82	18851	No
15	GOM_NL__2PRFIN20051008_015426_000000392041_00260_18851_7422.N1	08-OCT-2005 01:54:26	Dark	38.500	46	Del Vel	1.9540	10600.	77	18851	No
16	GOM_NL__2PRFIN20051008_020811_000000402041_00261_18852_7410.N1	08-OCT-2005 02:08:11	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	18852	No
17	GOM_NL__2PRFIN20051008_020939_000000402041_00261_18852_7411.N1	08-OCT-2005 02:09:39	Dark	39.500	9	Alp Eri	0.45300	24000.	79	18852	No
18	GOM_NL__2PRFIN20051008_021450_000000382041_00261_18852_7412.N1	08-OCT-2005 02:14:50	Straylight	37.500	84	Alp Phe	2.3970	4500.0	75	18852	No
19	GOM_NL__2PRFIN20051008_023140_000000362041_00261_18852_7413.N1	08-OCT-2005 02:31:40	Bright	35.500	90	54Alp Peg	2.4870	11000.	71	18852	No
20	GOM_NL__2PRFIN20051008_023514_000000392041_00261_18852_7414.N1	08-OCT-2005 02:35:14	Bright	38.500	93	53Bet Peg	2.5200	3100.0	77	18852	No
21	GOM_NL__2PRFIN20051008_024546_000000362041_00261_18852_7415.N1	08-OCT-2005 02:45:46	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	18852	No
22	GOM_NL__2PRFIN20051008_025229_000000342041_00261_18852_7416.N1	08-OCT-2005 02:52:29	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	18852	No
23	GOM_NL__2PRFIN20051008_025501_000000372041_00261_18852_7417.N1	08-OCT-2005 02:55:01	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	18852	No
24	GOM_NL__2PRFIN20051008_030037_000000342041_00261_18852_7418.N1	08-OCT-2005 03:00:37	Bright	34.000	36	50Alp UMa	1.8000	6300.0	68	18852	No
25	GOM_NL__2PRFIN20051008_030209_000000352041_00261_18852_7419.N1	08-OCT-2005 03:02:09	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	18852	No
26	GOM_NL__2PRFIN20051008_030526_000000352041_00261_18852_7420.N1	08-OCT-2005 03:05:26	Bright	35.000	174	52Psi UMa	3.0040	4400.0	70	18852	No
27	GOM_NL__2PRFIN20051008_033149_000000442041_00261_18852_7421.N1	08-OCT-2005 03:31:49	Dark	44.000	65	Lam Vel	2.2040	4400.0	88	18852	No
28	GOM_NL__2PRFIN20051008_033503_000000392041_00261_18852_7422.N1	08-OCT-2005 03:35:03	Dark	39.000	46	Del Vel	1.9540	10600.	78	18852	No
29	GOM_NL__2PRFIN20051008_033638_000000452041_00262_18853_7410.N1	08-OCT-2005 03:36:38	Dark	45.000	41	Eps Car	1.8600	4100.0	90	18853	No
30	GOM_NL__2PRFIN20051008_034848_000000392041_00262_18853_7411.N1	08-OCT-2005 03:48:48	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	18853	No
31	GOM_NL__2PRFIN20051008_035015_000000502041_00262_18853_7412.N1	08-OCT-2005 03:50:15	Dark	50.000	9	Alp Eri	0.45300	24000.	100	18853	No
32	GOM_NL__2PRFIN20051008_035526_000000412041_00262_18853_7413.N1	08-OCT-2005 03:55:26	Straylight	41.000	84	Alp Phe	2.3970	4500.0	82	18853	No
33	GOM_NL__2PRFIN20051008_041216_000000362041_00262_18853_7414.N1	08-OCT-2005 04:12:16	Bright	36.000	90	54Alp Peg	2.4870	11000.	72	18853	No
34	GOM_NL__2PRFIN20051008_041550_000000382041_00262_18853_7415.N1	08-OCT-2005 04:15:50	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	18853	No
35	GOM_NL__2PRFIN20051008_042622_000000352041_00262_18853_7416.N1	08-OCT-2005 04:26:22	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	18853	No
36	GOM_NL__2PRFIN20051008_043305_000000352041_00262_18853_7417.N1	08-OCT-2005 04:33:05	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	18853	No
37	GOM_NL__2PRFIN20051008_043537_000000372041_00262_18853_7418.N1	08-OCT-2005 04:35:37	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	18853	No
38	GOM_NL__2PRFIN20051008_044113_000000372041_00262_18853_7419.N1	08-OCT-2005 04:41:13	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	18853	No
39	GOM_NL__2PRFIN20051008_044245_000000342041_00262_18853_7420.N1	08-OCT-2005 04:42:45	Bright	33.500	82	48Bet UMa	2.3650	10600.	67	18853	No
40	GOM_NL__2PRFIN20051008_044602_000000342041_00262_18853_7421.N1	08-OCT-2005 04:46:02	Bright	34.000	174	52Psi UMa	3.0040	4400.0	68	18853	No
41	GOM_NL__2PRFIN20051008_051225_000000432041_00262_18853_7422.N1	08-OCT-2005 05:12:25	Dark	43.000	65	Lam Vel	2.2040	4400.0	86	18853	No
42	GOM_NL__2PRFIN20051008_051539_000000412041_00262_18853_7423.N1	08-OCT-2005 05:15:39	Dark	40.500	46	Del Vel	1.9540	10600.	81	18853	No

161	GOM_NL__2PRFIN20051008_194103_000000362041_00271_18862_7443.N1	08-OCT-2005 19:41:03	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	18862	No
162	GOM_NL__2PRFIN20051008_194637_000000352041_00271_18862_7444.N1	08-OCT-2005 19:46:37	Bright	34.500	36	50Alp UMa	1.8000	6300.0	69	18862	No
163	GOM_NL__2PRFIN20051008_194809_000000332041_00271_18862_7445.N1	08-OCT-2005 19:48:09	Bright	32.500	82	48Bet UMa	2.3650	10600.	65	18862	No
164	GOM_NL__2PRFIN20051008_195127_000000342041_00271_18862_7446.N1	08-OCT-2005 19:51:27	Bright	34.000	174	52Psi UMa	3.0040	4400.0	68	18862	No
165	GOM_NL__2PRFIN20051008_201753_000000442041_00271_18862_7447.N1	08-OCT-2005 20:17:53	Dark	44.000	65	Lam Vel	2.2040	4400.0	88	18862	No
166	GOM_NL__2PRFIN20051008_202107_000000392041_00271_18862_7448.N1	08-OCT-2005 20:21:07	Dark	38.500	46	Del Vel	1.9540	10600.	77	18862	No
167	GOM_NL__2PRFIN20051008_202242_000000492041_00272_18863_7436.N1	08-OCT-2005 20:22:42	Dark	49.000	41	Eps Car	1.8600	4100.0	98	18863	No
168	GOM_NL__2PRFIN20051008_203451_000000382041_00272_18863_7437.N1	08-OCT-2005 20:34:51	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	18863	No
169	GOM_NL__2PRFIN20051008_203618_000000502041_00272_18863_7438.N1	08-OCT-2005 20:36:18	Dark	50.000	9	Alp Eri	0.45300	24000.	100	18863	No
170	GOM_NL__2PRFIN20051008_204128_000000422041_00272_18863_7439.N1	08-OCT-2005 20:41:28	Straylight	42.000	84	Alp Phe	2.3970	4500.0	84	18863	No
171	GOM_NL__2PRFIN20051008_205817_000000352041_00272_18863_7440.N1	08-OCT-2005 20:58:17	Bright	35.000	90	54Alp Peg	2.4870	11000.	70	18863	No
172	GOM_NL__2PRFIN20051008_210151_000000352041_00272_18863_7441.N1	08-OCT-2005 21:01:51	Bright	35.000	93	53Bet Peg	2.5200	3100.0	70	18863	No
173	GOM_NL__2PRFIN20051008_211224_000000372041_00272_18863_7442.N1	08-OCT-2005 21:12:24	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	18863	No
174	GOM_NL__2PRFIN20051008_211905_000000352041_00272_18863_7443.N1	08-OCT-2005 21:19:05	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	18863	No
175	GOM_NL__2PRFIN20051008_212140_000000332041_00272_18863_7444.N1	08-OCT-2005 21:21:40	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	18863	No
176	GOM_NL__2PRFIN20051008_212713_000000372041_00272_18863_7445.N1	08-OCT-2005 21:27:13	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	18863	No
177	GOM_NL__2PRFIN20051008_212845_000000462041_00272_18863_7446.N1	08-OCT-2005 21:28:45	Bright	45.500	82	48Bet UMa	2.3650	10600.	91	18863	No
178	GOM_NL__2PRFIN20051008_213203_000000362041_00272_18863_7447.N1	08-OCT-2005 21:32:03	Bright	35.500	174	52Psi UMa	3.0040	4400.0	71	18863	No
179	GOM_NL__2PRFIN20051008_215830_000000482041_00272_18863_7448.N1	08-OCT-2005 21:58:30	Dark	47.500	65	Lam Vel	2.2040	4400.0	95	18863	No
180	GOM_NL__2PRFIN20051008_220143_000000402041_00272_18863_7449.N1	08-OCT-2005 22:01:43	Dark	39.500	46	Del Vel	1.9540	10600.	79	18863	No
181	GOM_NL__2PRFIN20051008_220318_000000512041_00273_18864_7481.N1	08-OCT-2005 22:03:18	Dark	50.500	41	Eps Car	1.8600	4100.0	101	18864	No
182	GOM_NL__2PRFIN20051008_221527_000000402041_00273_18864_7482.N1	08-OCT-2005 22:15:27	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	18864	No
183	GOM_NL__2PRFIN20051008_221654_000000432041_00273_18864_7483.N1	08-OCT-2005 22:16:54	Dark	43.000	9	Alp Eri	0.45300	24000.	86	18864	No
184	GOM_NL__2PRFIN20051008_222204_000000422041_00273_18864_7484.N1	08-OCT-2005 22:22:04	Straylight	41.500	84	Alp Phe	2.3970	4500.0	83	18864	No
185	GOM_NL__2PRFIN20051008_223853_000000372041_00273_18864_7485.N1	08-OCT-2005 22:38:53	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	18864	No
186	GOM_NL__2PRFIN20051008_224227_000000372041_00273_18864_7486.N1	08-OCT-2005 22:42:27	Bright	37.000	93	53Bet Peg	2.5200	3100.0	74	18864	No
187	GOM_NL__2PRFIN20051008_225301_000000362041_00273_18864_7487.N1	08-OCT-2005 22:53:01	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	18864	No
188	GOM_NL__2PRFIN20051008_225941_000000372041_00273_18864_7488.N1	08-OCT-2005 22:59:41	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	18864	No
189	GOM_NL__2PRFIN20051008_230216_000000362041_00273_18864_7489.N1	08-OCT-2005 23:02:16	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	18864	No
190	GOM_NL__2PRFIN20051008_230749_000000372041_00273_18864_7490.N1	08-OCT-2005 23:07:49	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	18864	No
191	GOM_NL__2PRFIN20051008_230921_000000352041_00273_18864_7491.N1	08-OCT-2005 23:09:21	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	18864	No
192	GOM_NL__2PRFIN20051008_231239_000000412041_00273_18864_7492.N1	08-OCT-2005 23:12:39	Bright	40.500	174	52Psi UMa	3.0040	4400.0	81	18864	No
193	GOM_NL__2PRFIN20051008_233906_000000472041_00273_18864_7493.N1	08-OCT-2005 23:39:06	Dark	46.500	65	Lam Vel	2.2040	4400.0	93	18864	No
194	GOM_NL__2PRFIN20051008_234219_000000382041_00273_18864_7494.N1	08-OCT-2005 23:42:19	Dark	38.000	46	Del Vel	1.9540	10600.	76	18864	No
195	GOM_NL__2PRFIN20051008_234354_000000412041_00274_18865_7483.N1	08-OCT-2005 23:43:54	Dark	40.500	41	Eps Car	1.8600	4100.0	81	18865	No
196	GOM_NL__2PRFIN20051008_235603_000000382041_00274_18865_7484.N1	08-OCT-2005 23:56:03	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	18865	No
197	GOM_NL__2PRFIN20051008_235730_000000482041_00274_18865_7485.N1	08-OCT-2005 23:57:30	Dark	48.000	9	Alp Eri	0.45300	24000.	96	18865	No

3. Quality information per product

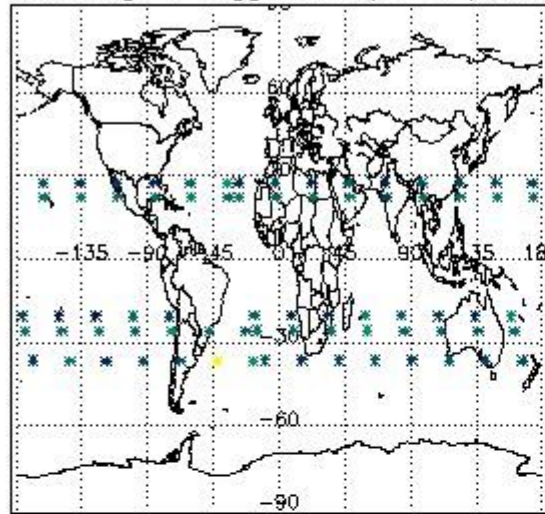
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

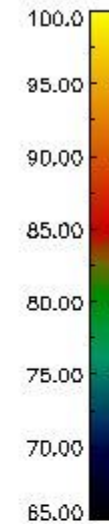
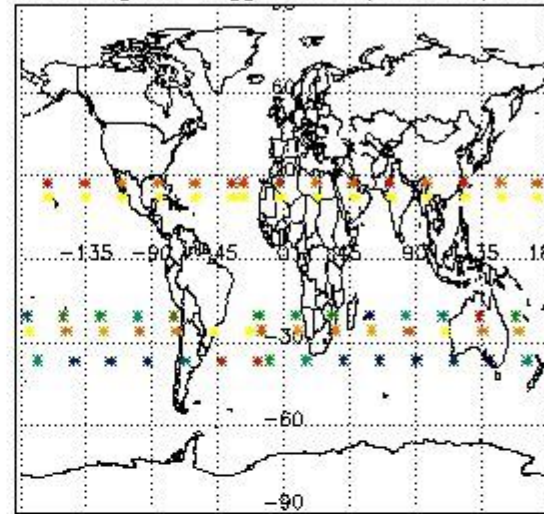


3.2 Plot quality information per product (world map)

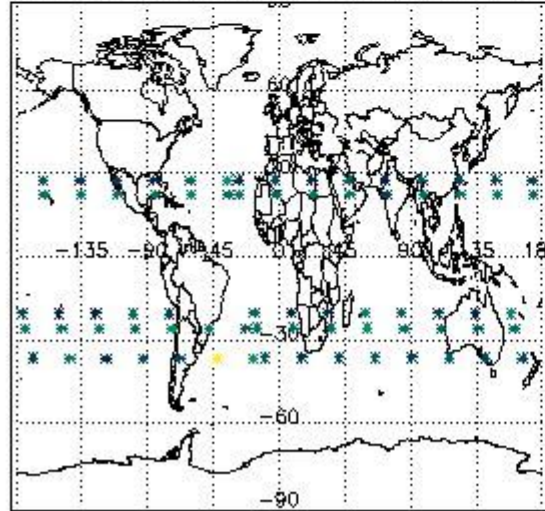
Percentage of flagged data per O3 profile



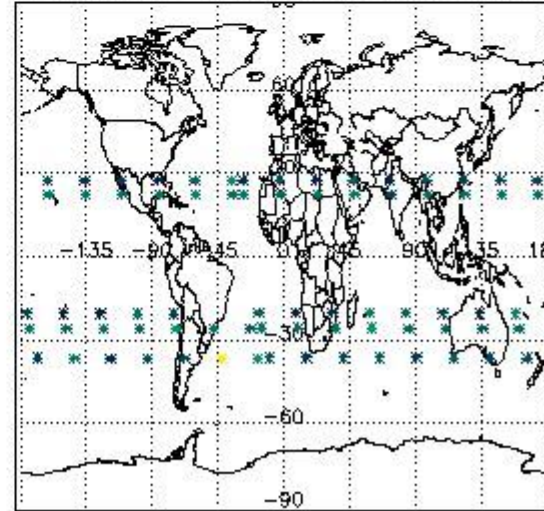
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

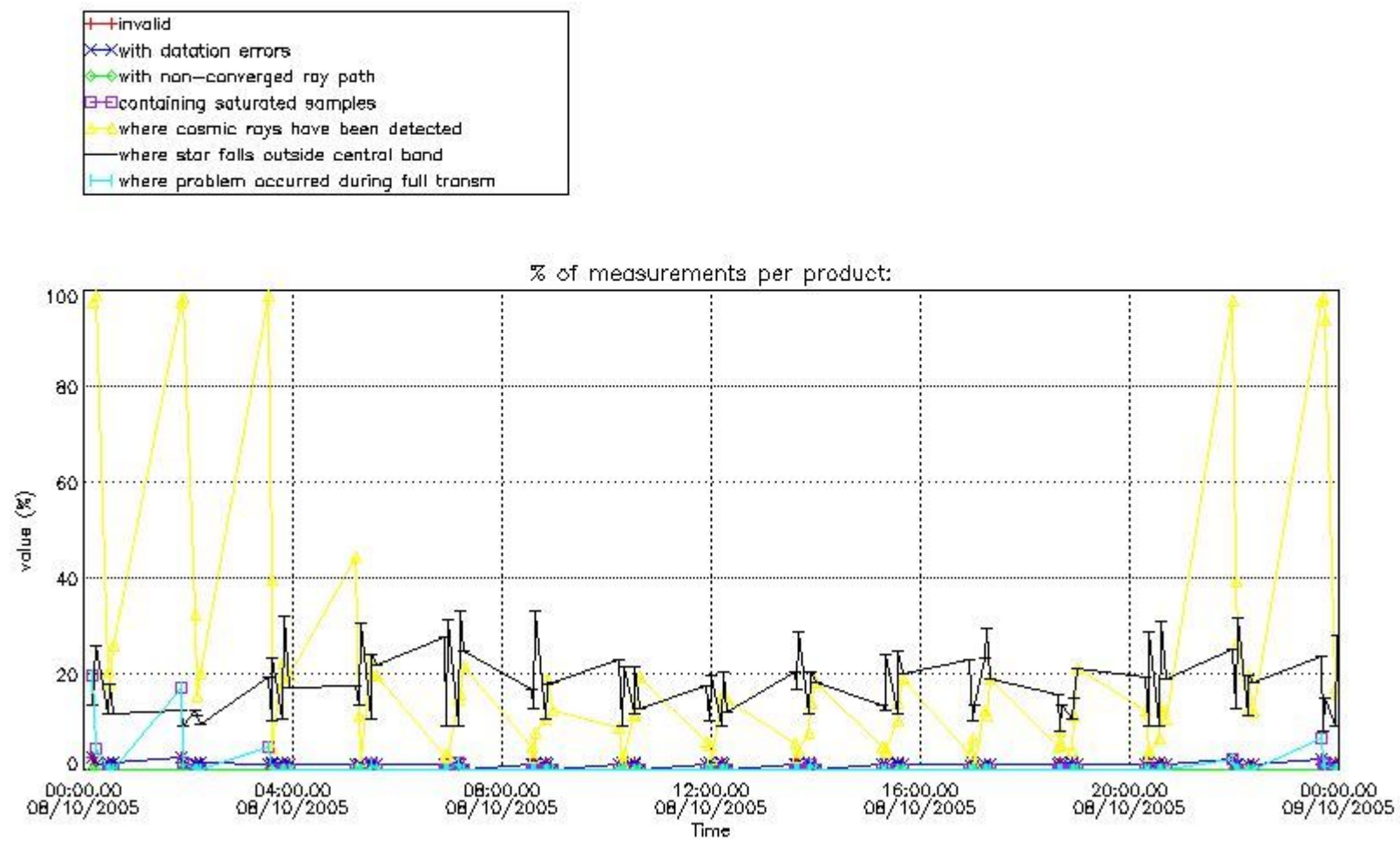


4. Level 1 quality information per product

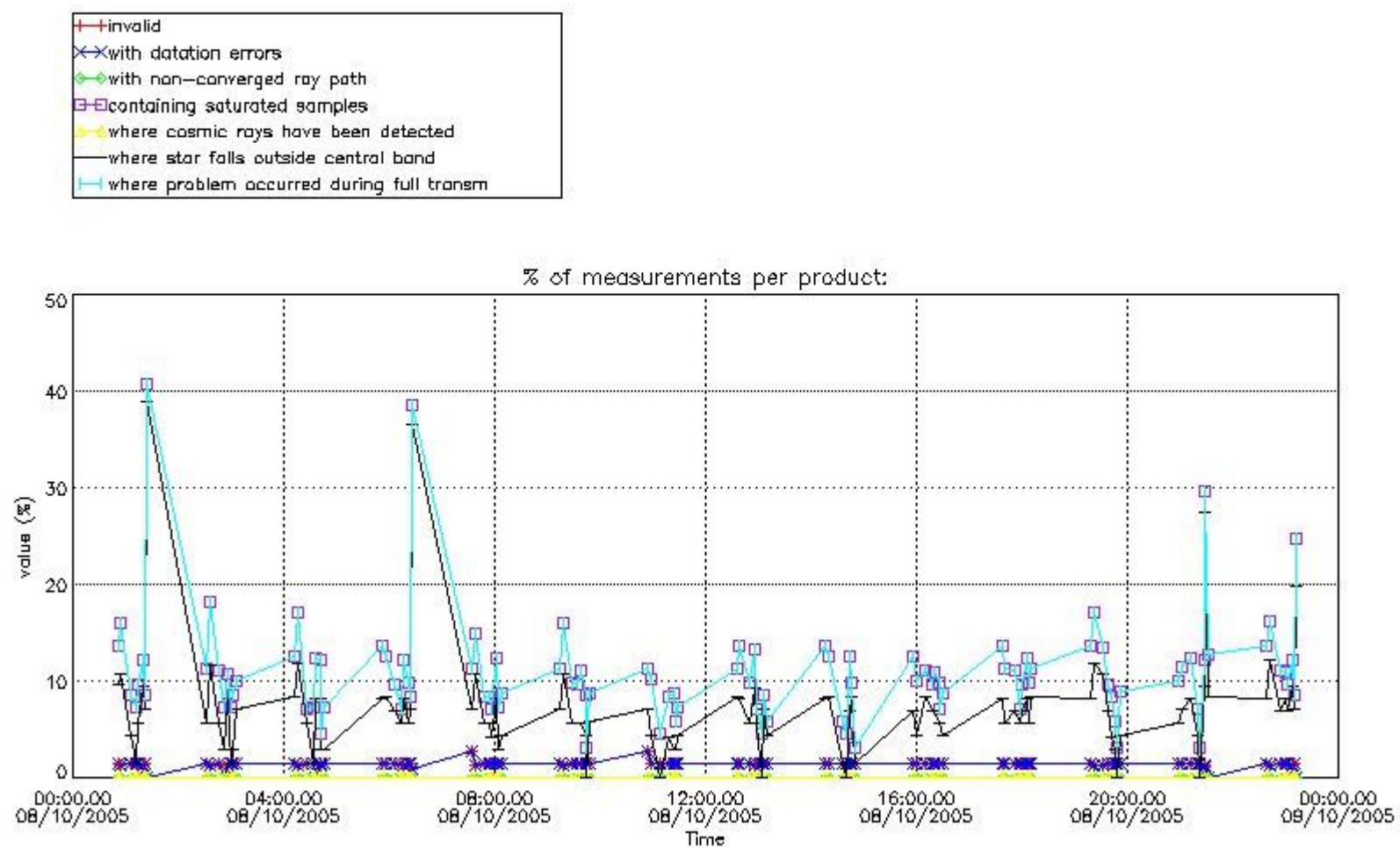
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



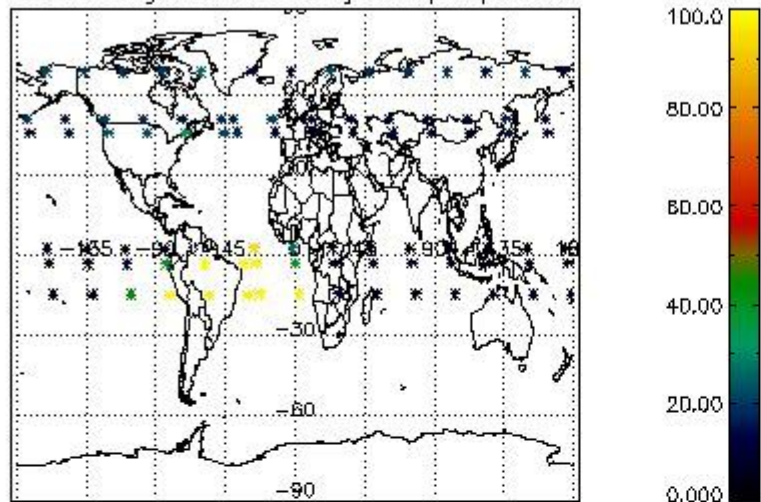
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



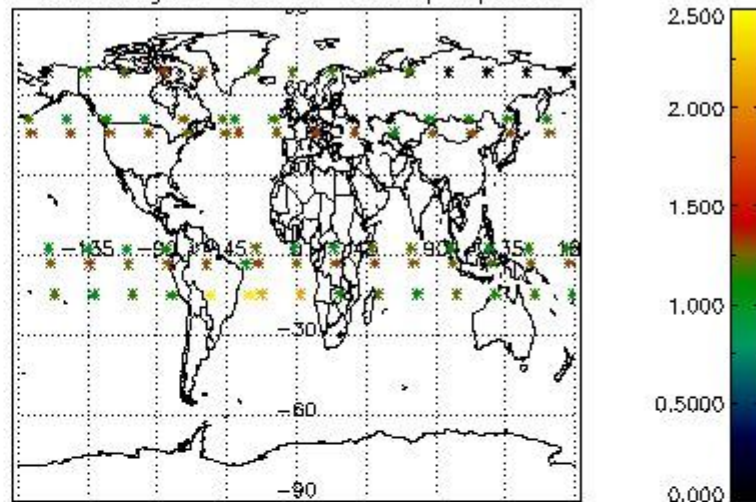
4.2 Plot quality information per product coming from level 1b processing (world map)

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

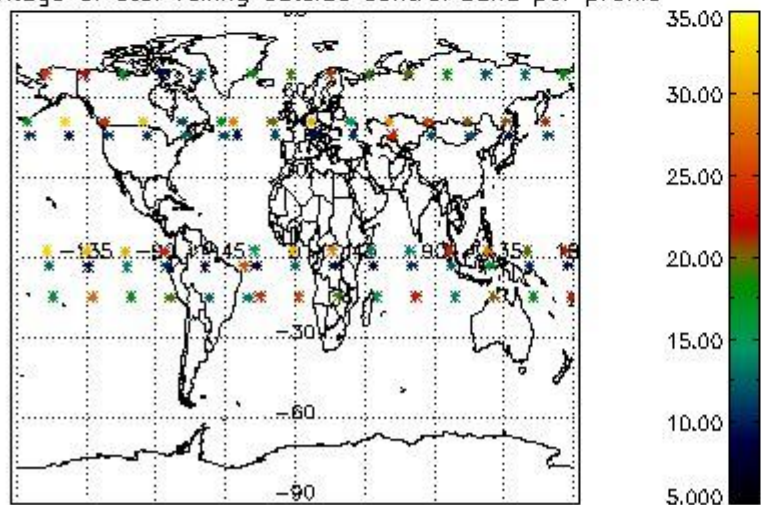
Percentage of cosmic ray hits per profile



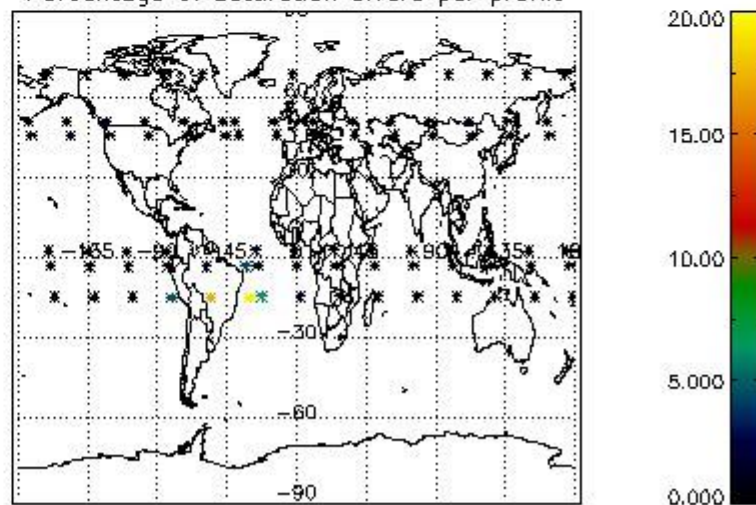
Percentage of datation errors per profile



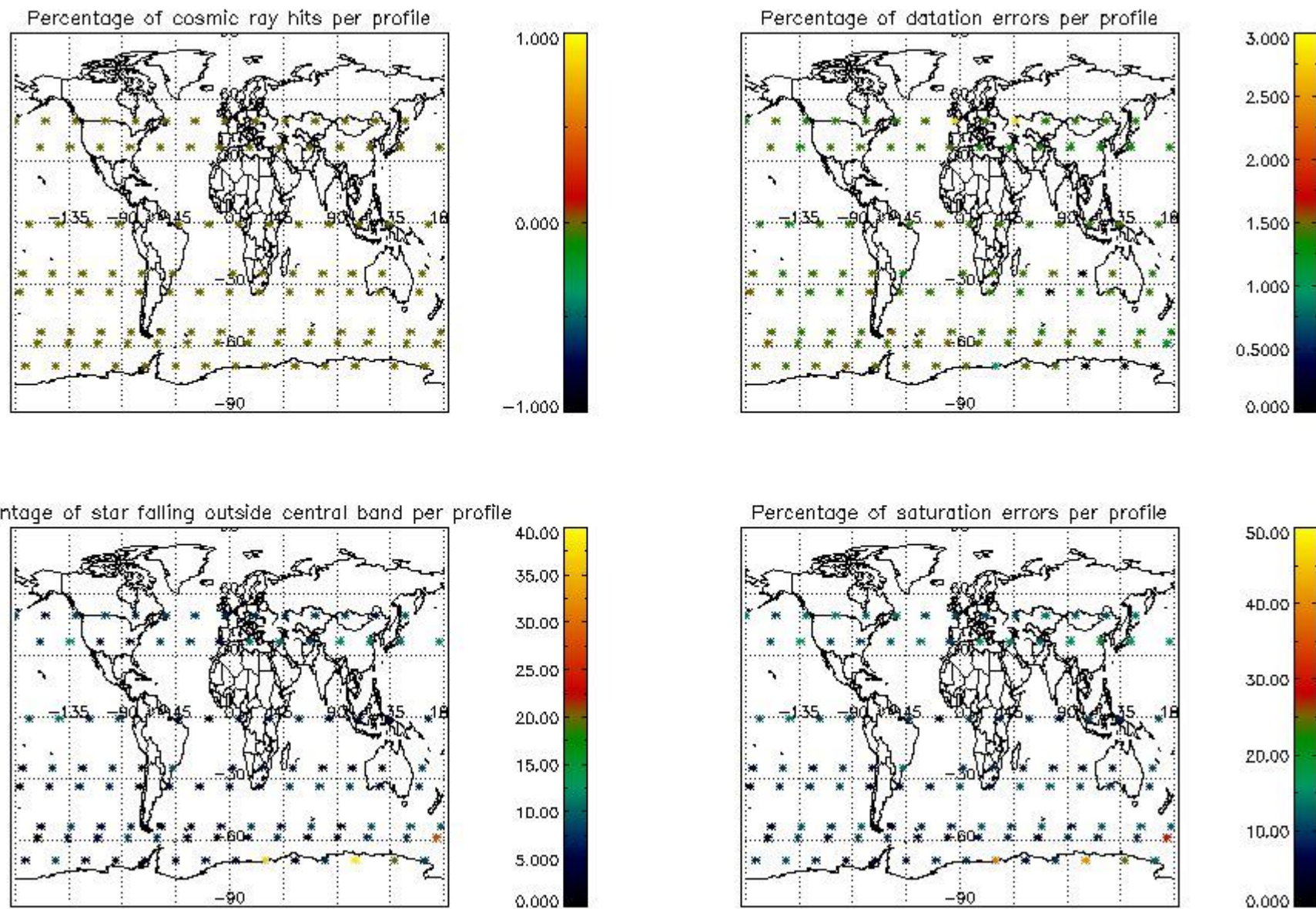
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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

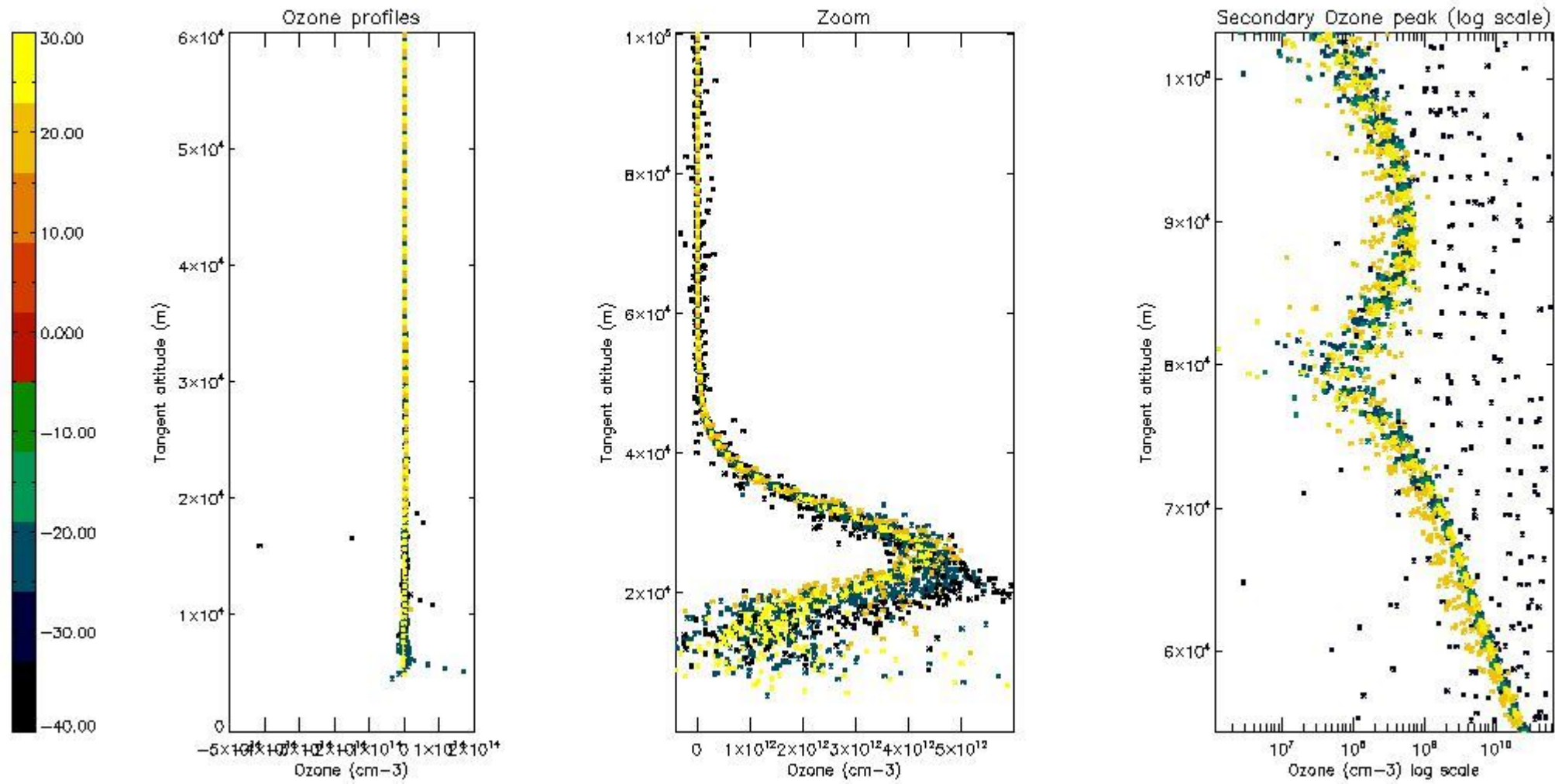
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	42
STD < 20	23

STD < 10	17
STD < 5	9

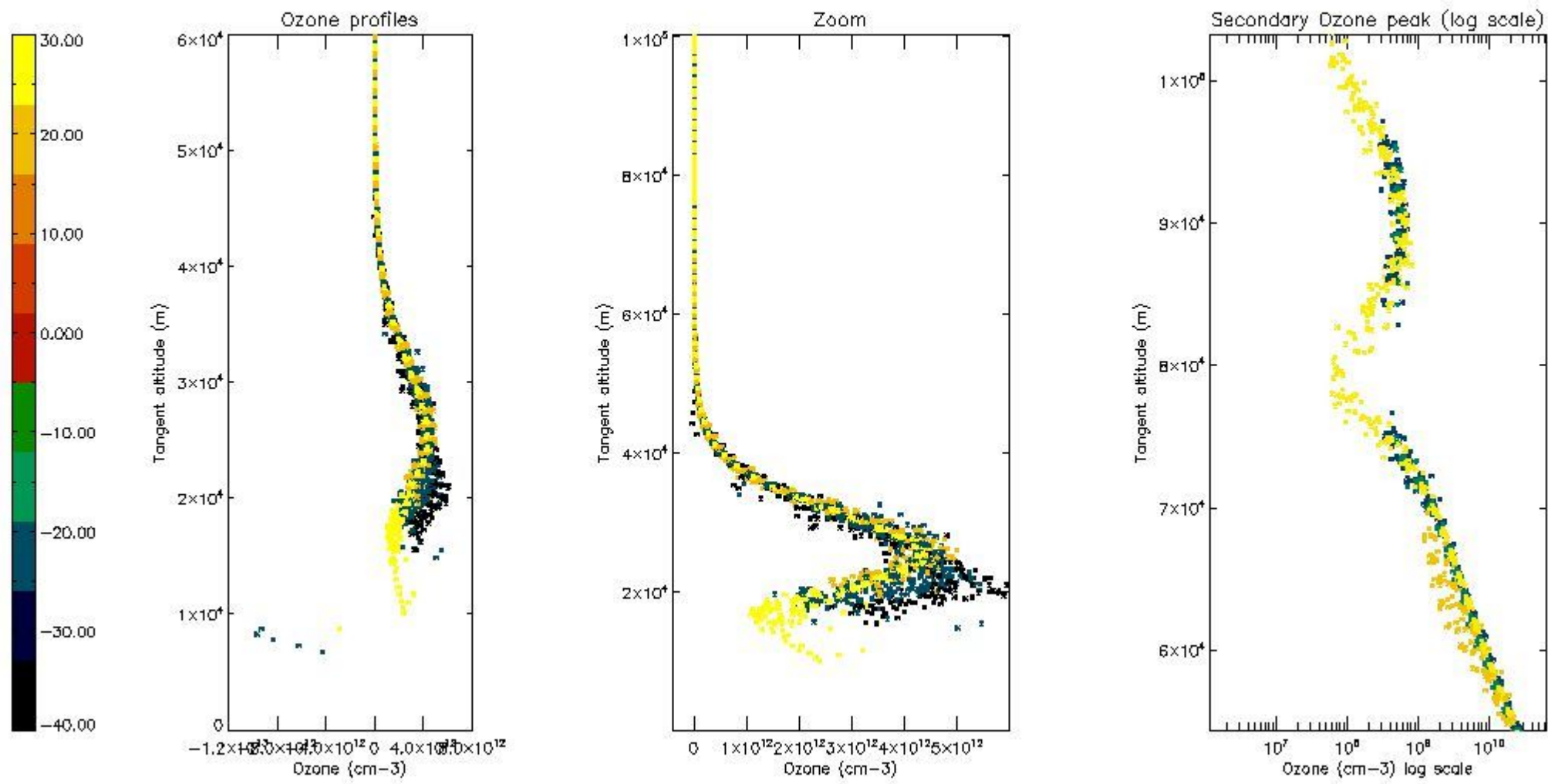
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



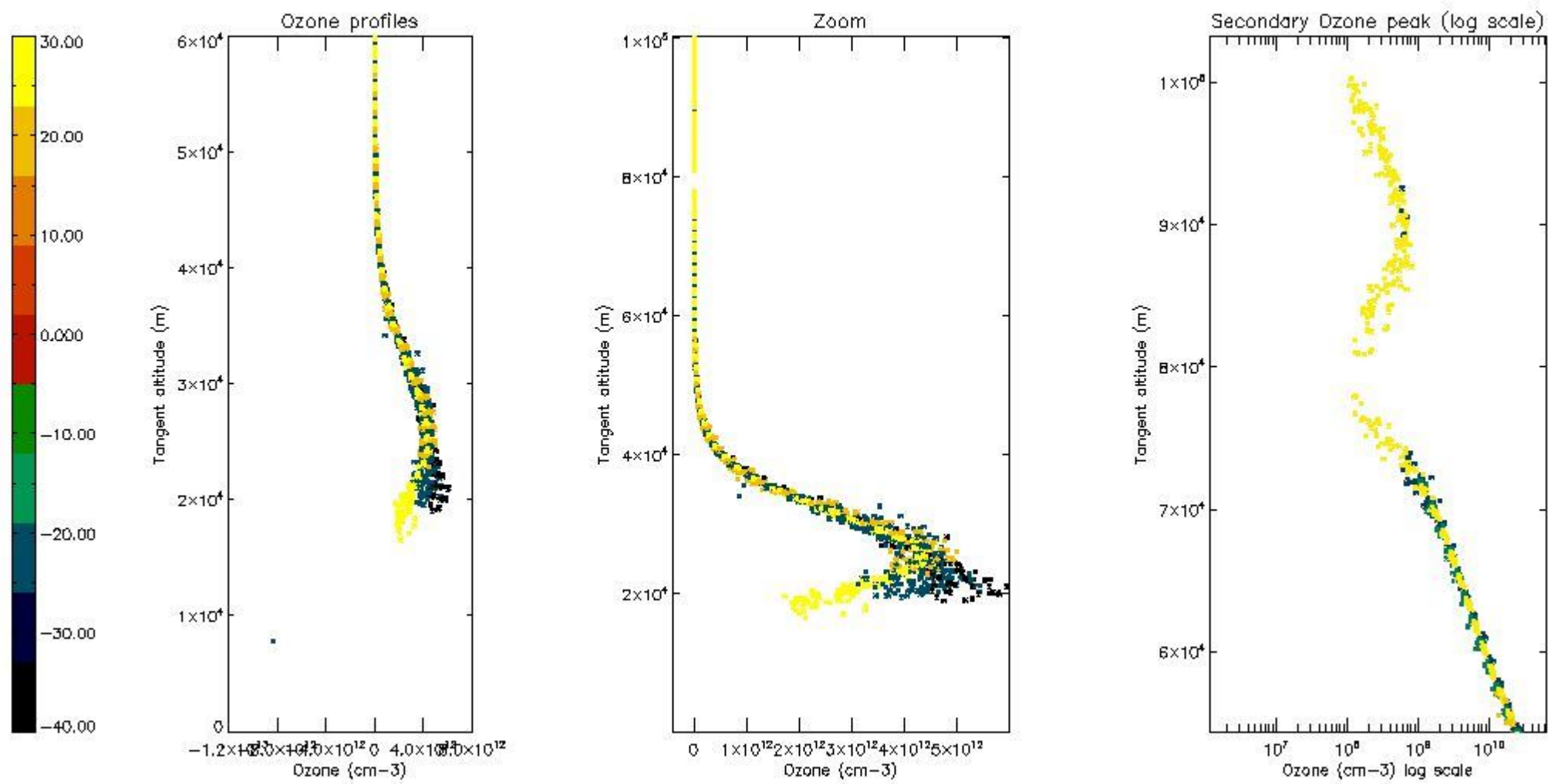
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



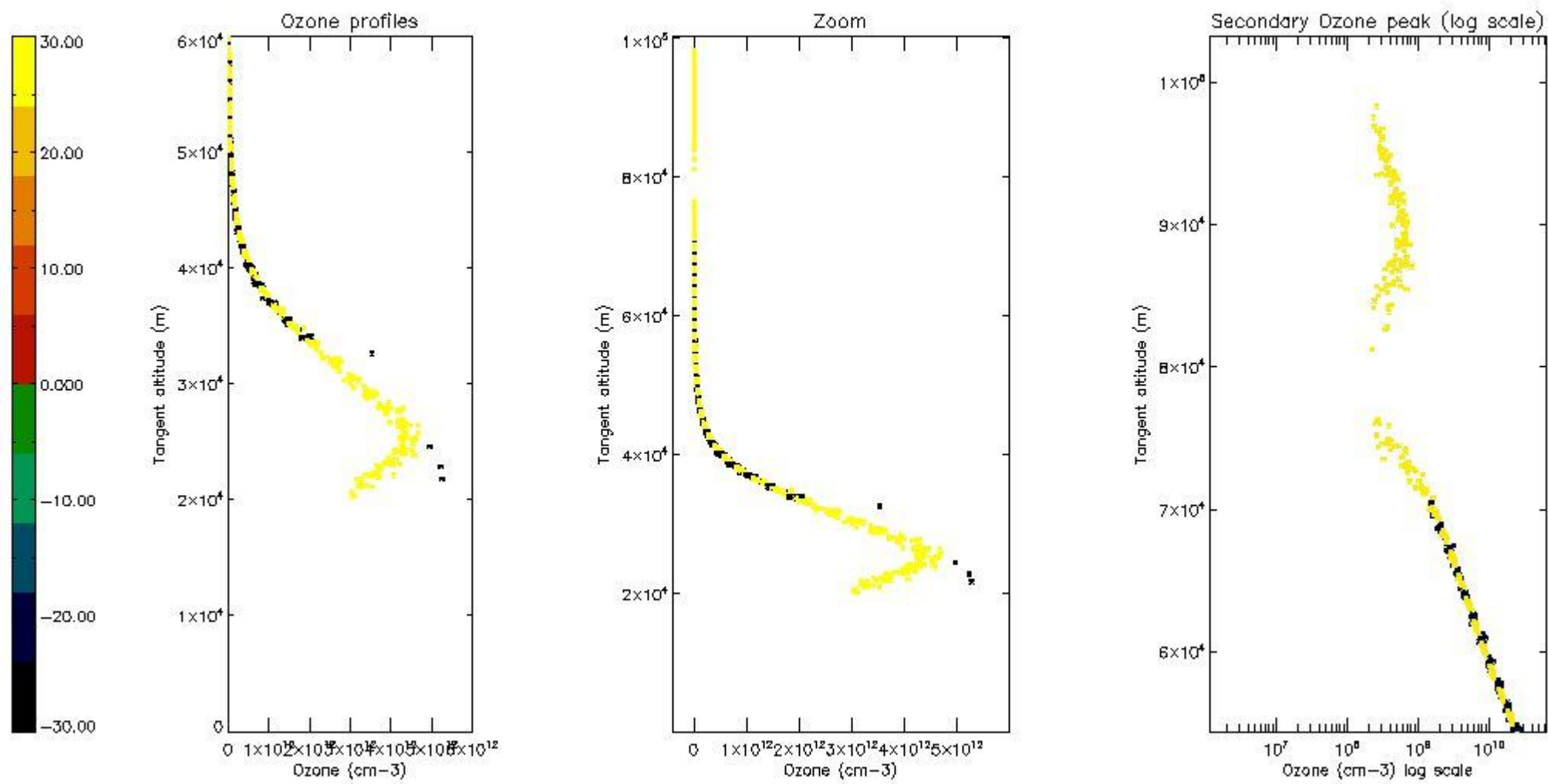
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



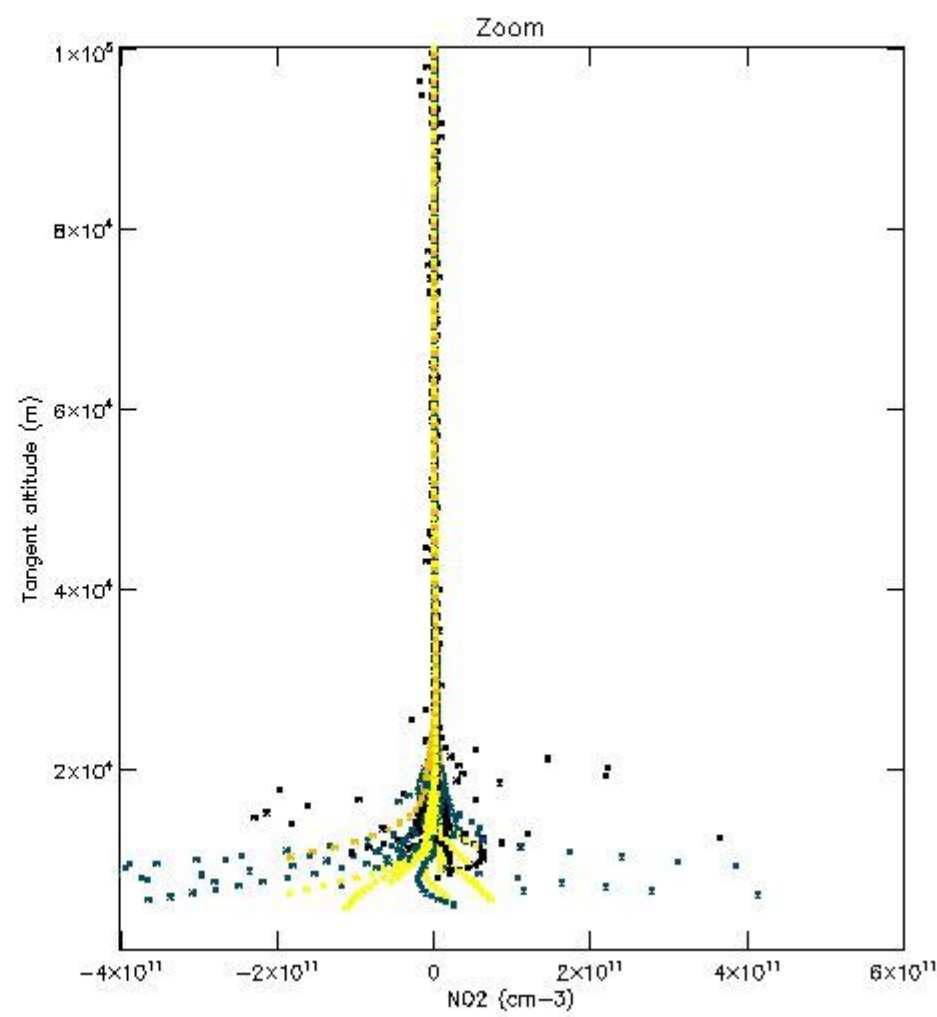
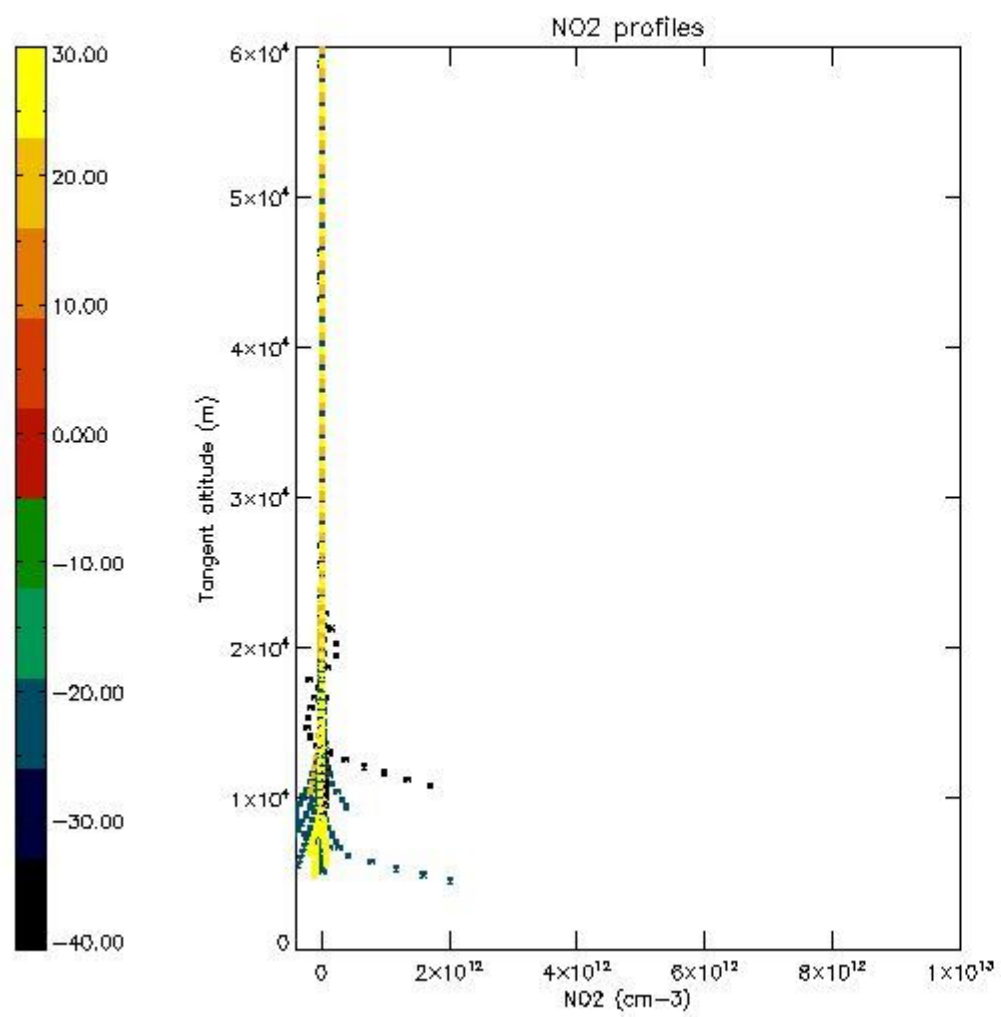
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



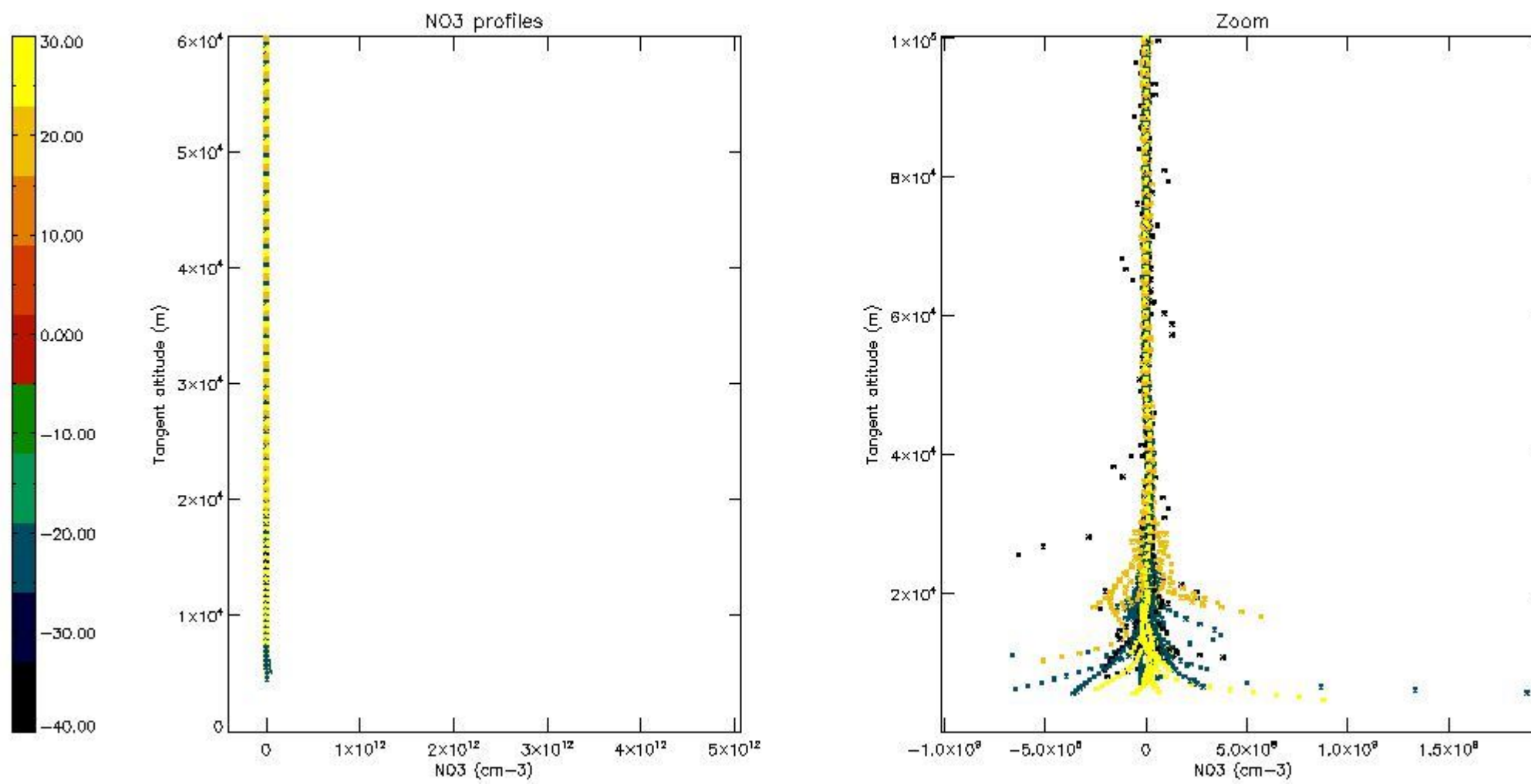
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

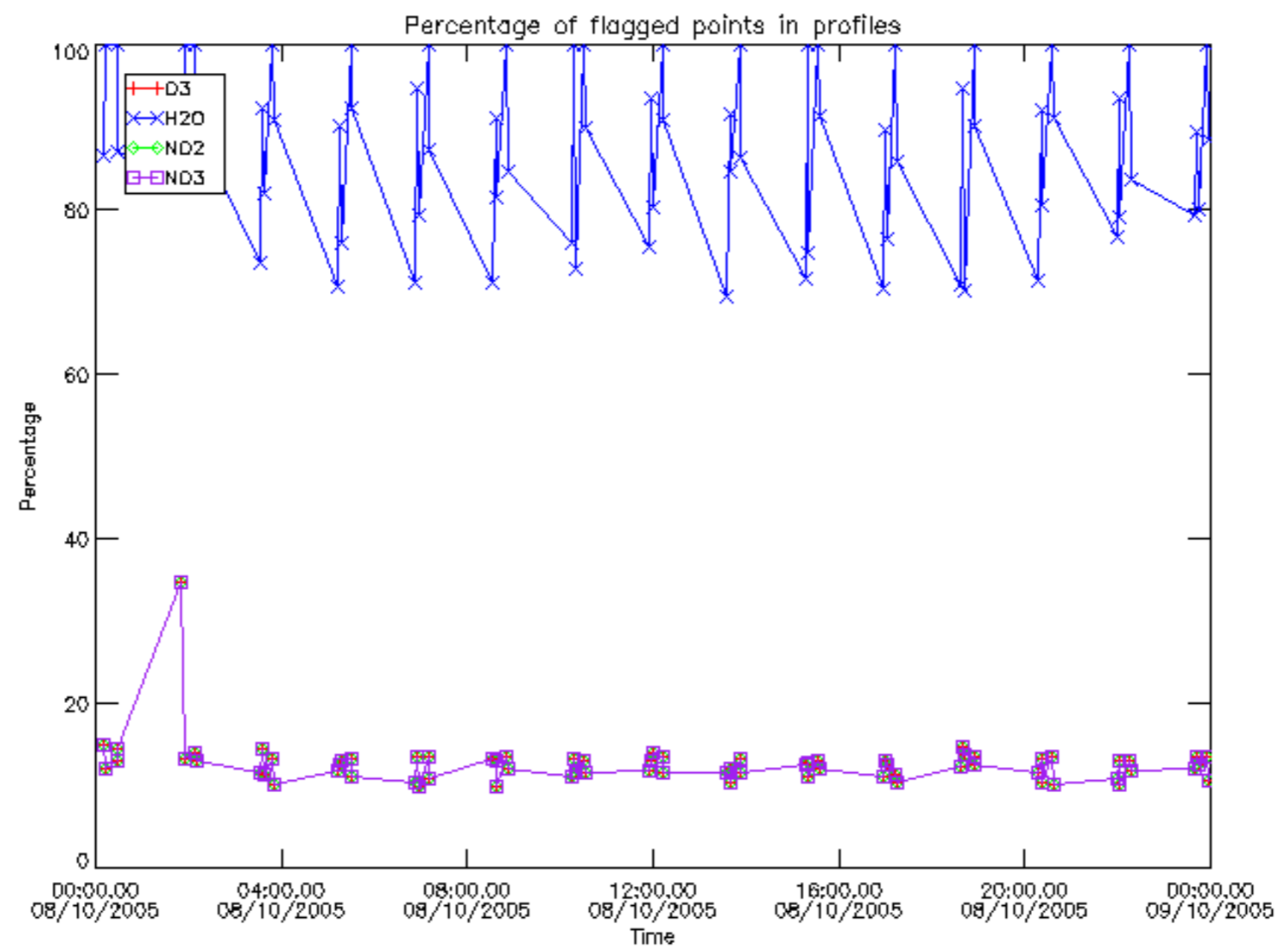
The colorbar represents the latitude.



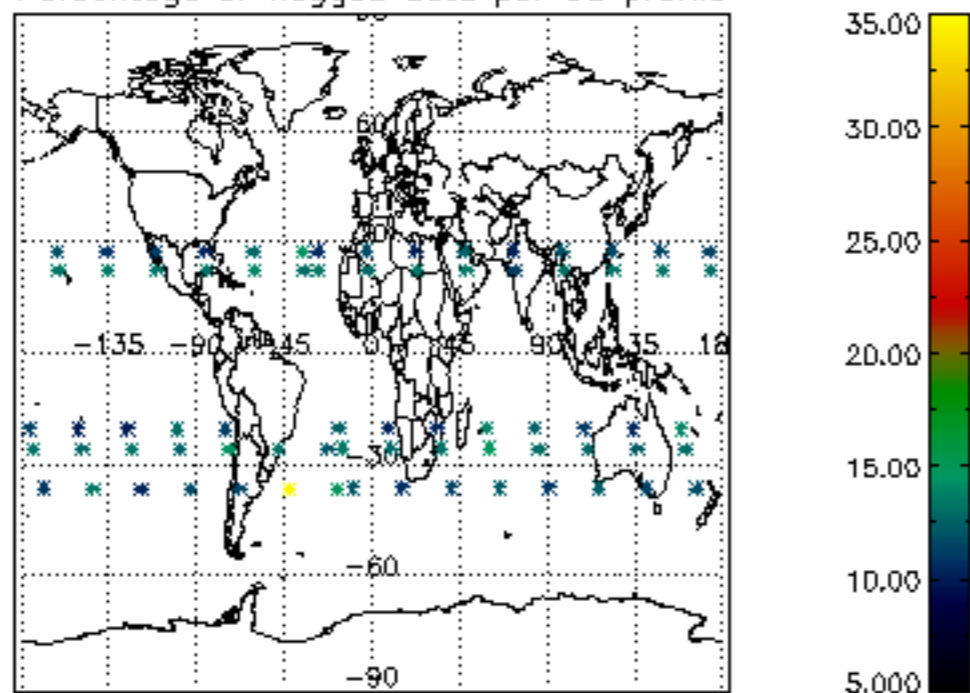
6. Auxiliary Data Files used for the production reported in section 2

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.

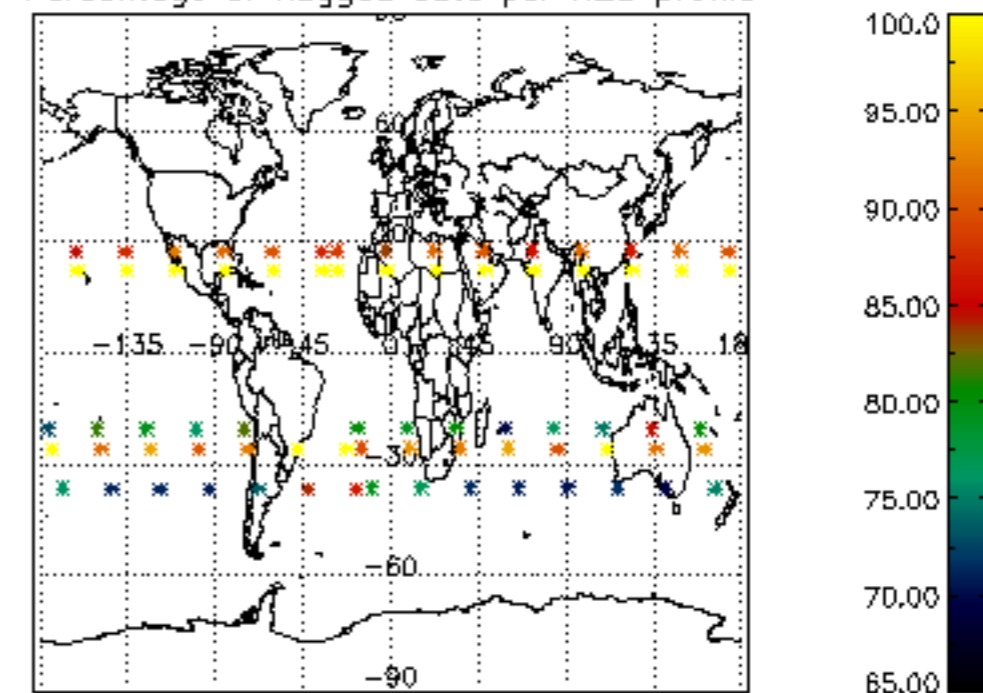
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	08-OCT-2005 00:10:36
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	08-OCT-2005 00:10:36
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	08-OCT-2005 00:10:36



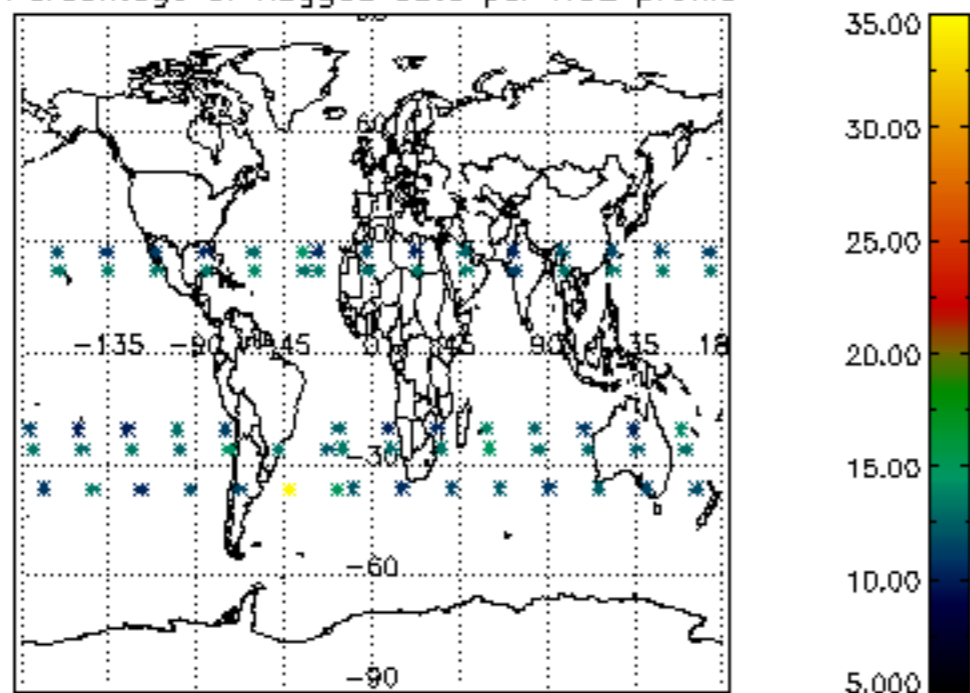
Percentage of flagged data per D3 profile



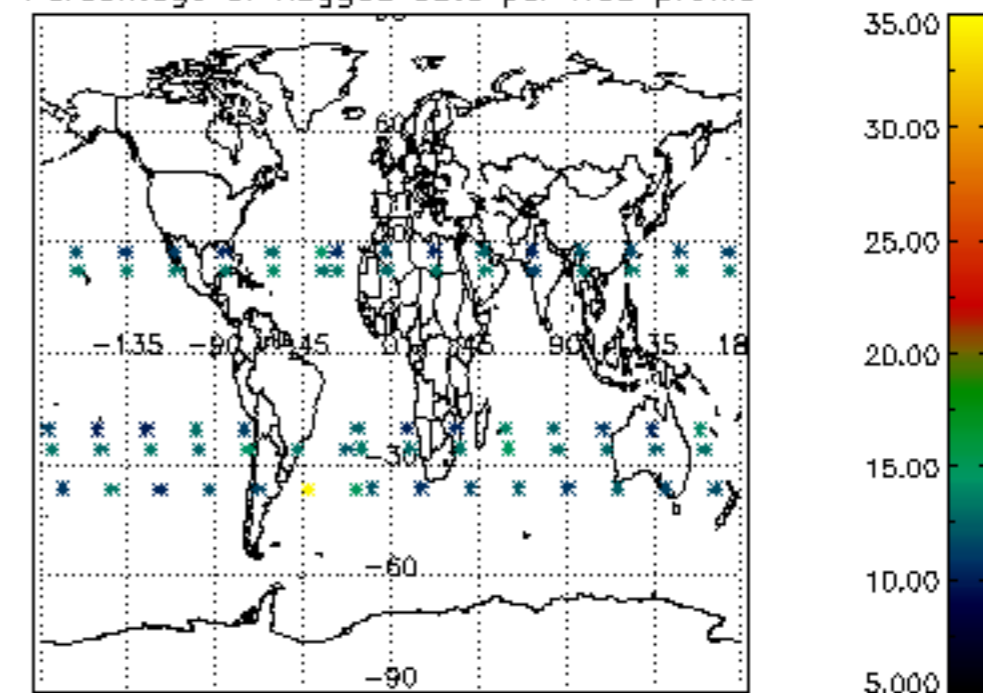
Percentage of flagged data per H2O profile

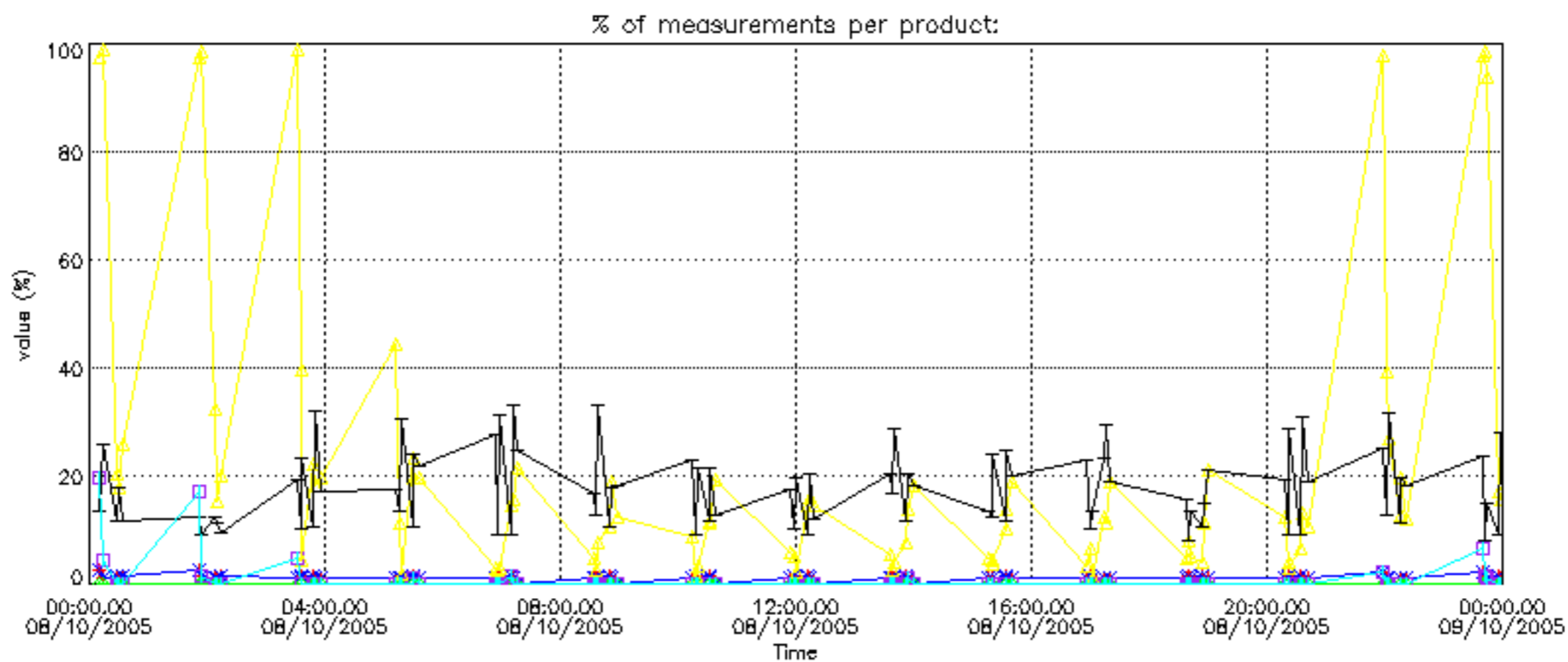


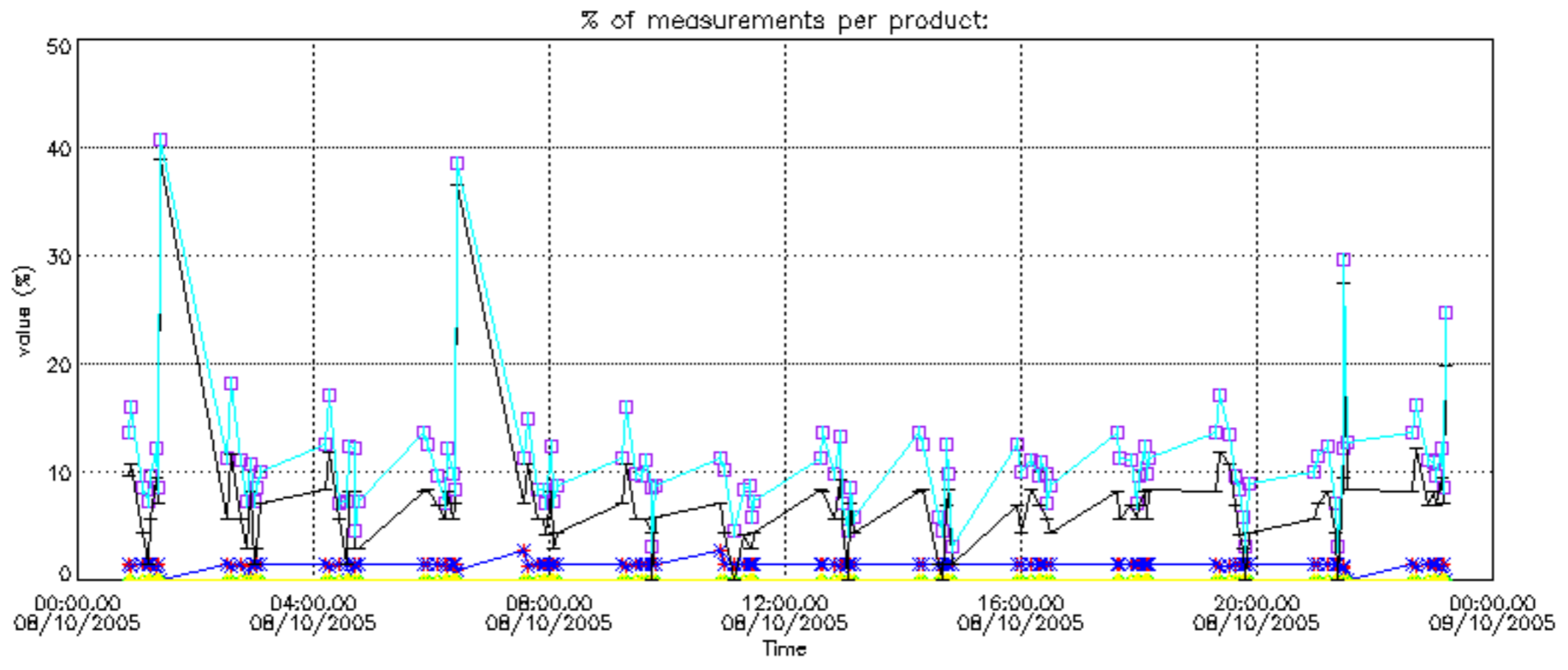
Percentage of flagged data per NO2 profile



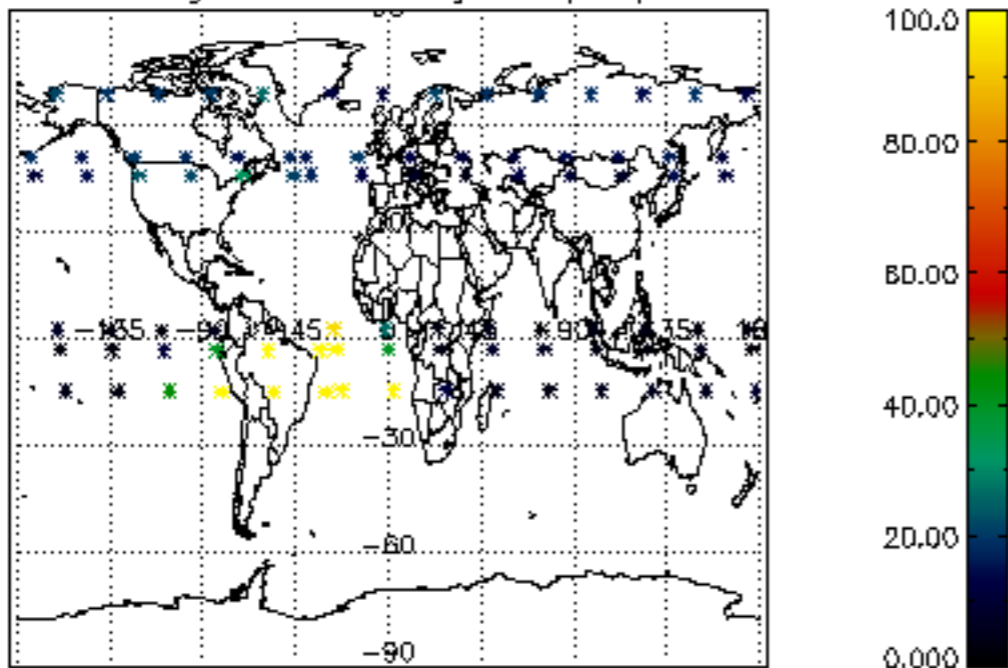
Percentage of flagged data per NO3 profile



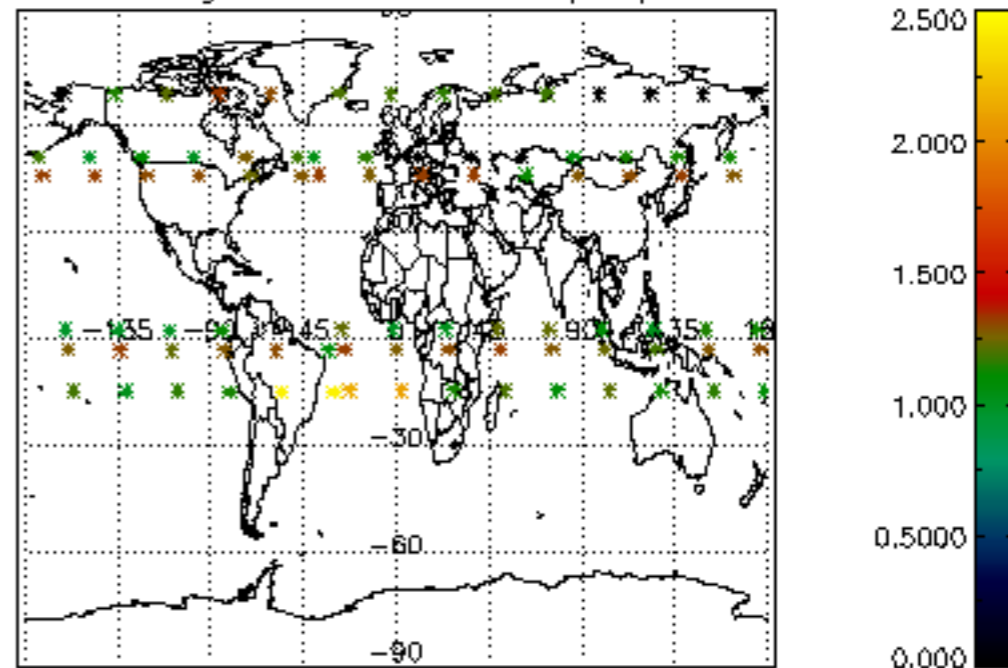




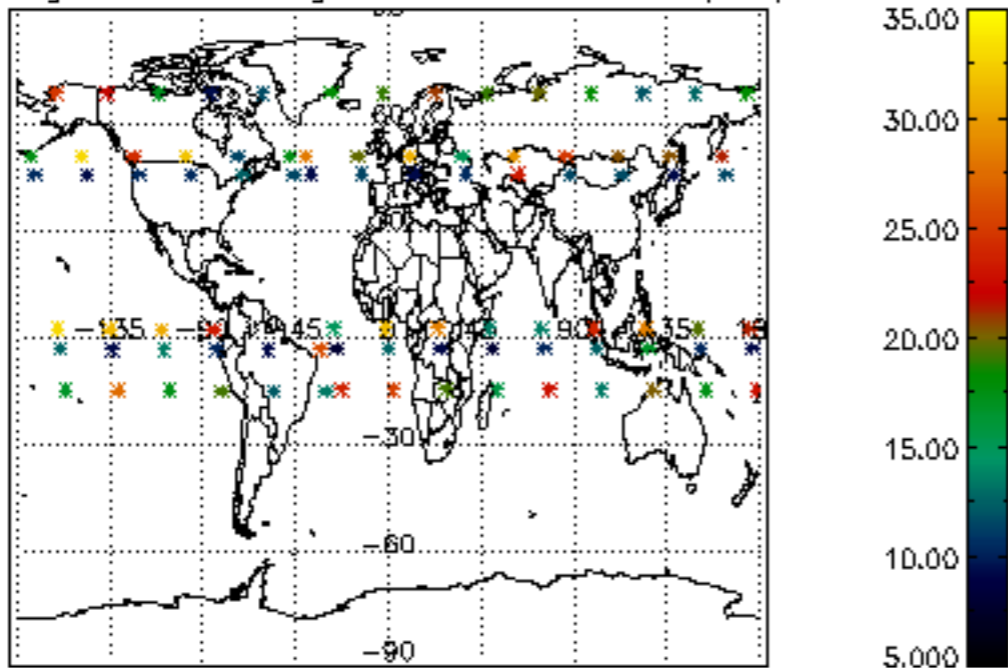
Percentage of cosmic ray hits per profile



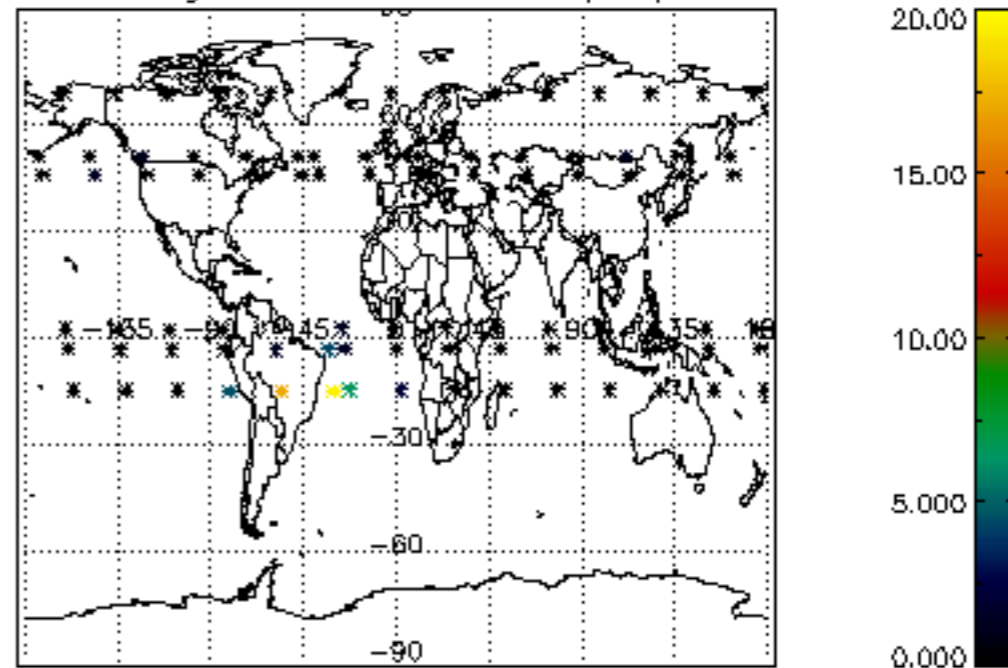
Percentage of datation errors per profile



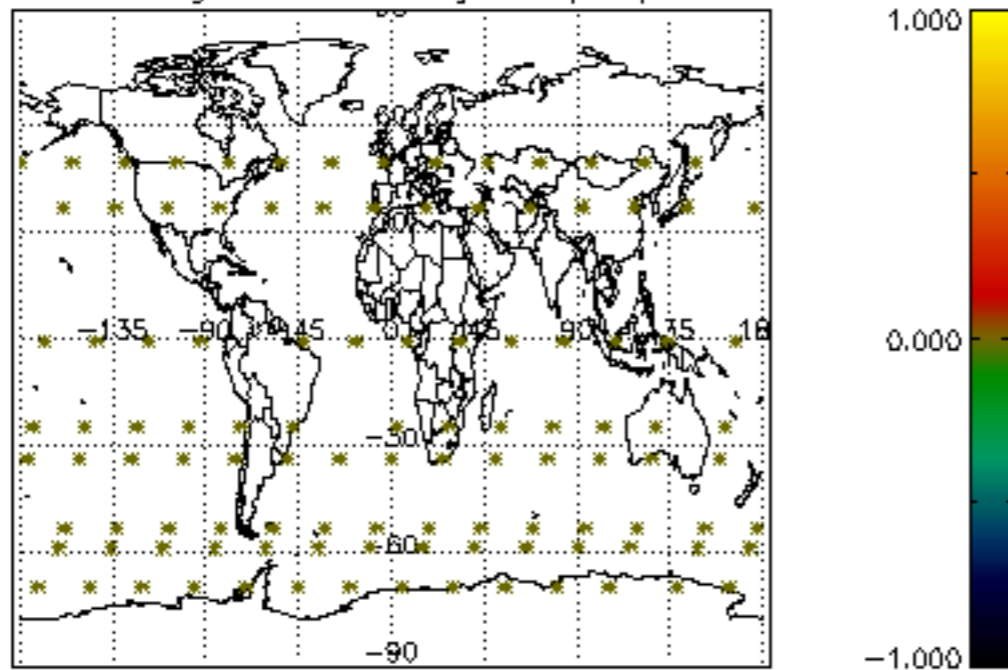
Percentage of star falling outside central band per profile



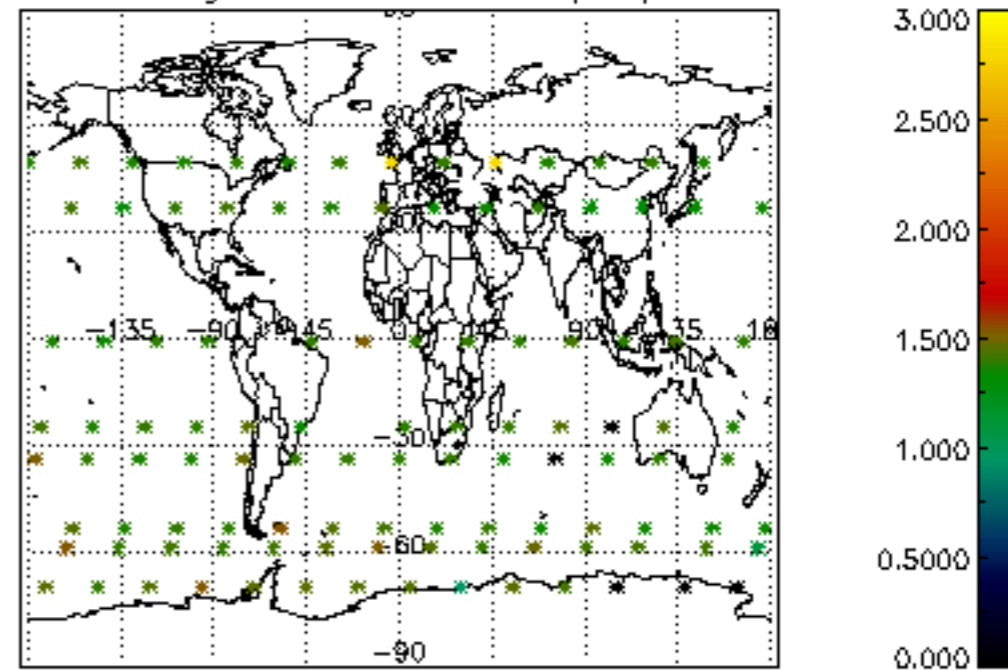
Percentage of saturation errors per profile



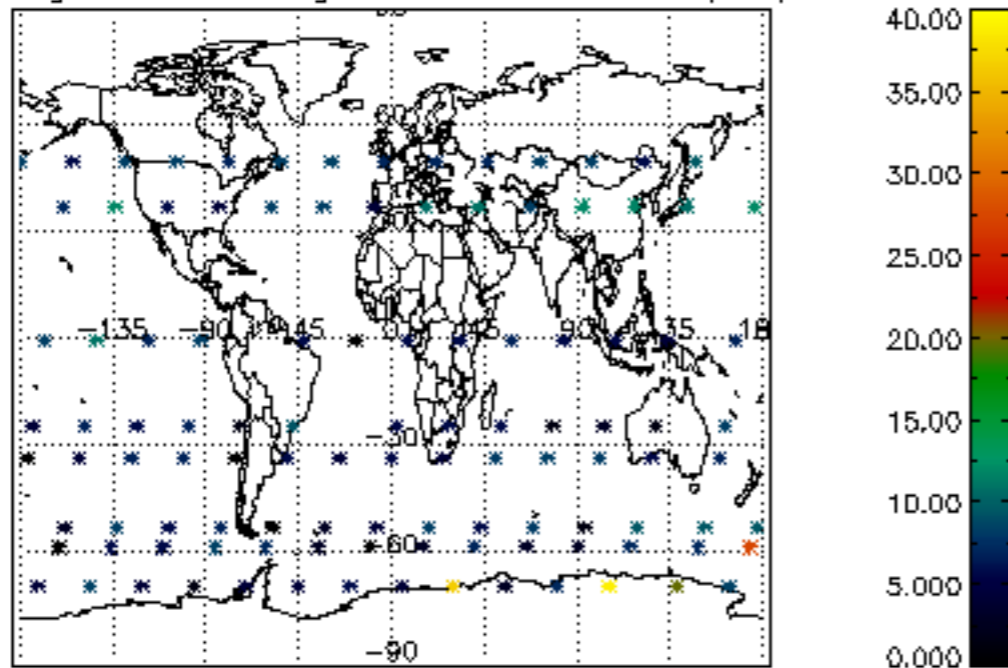
Percentage of cosmic ray hits per profile



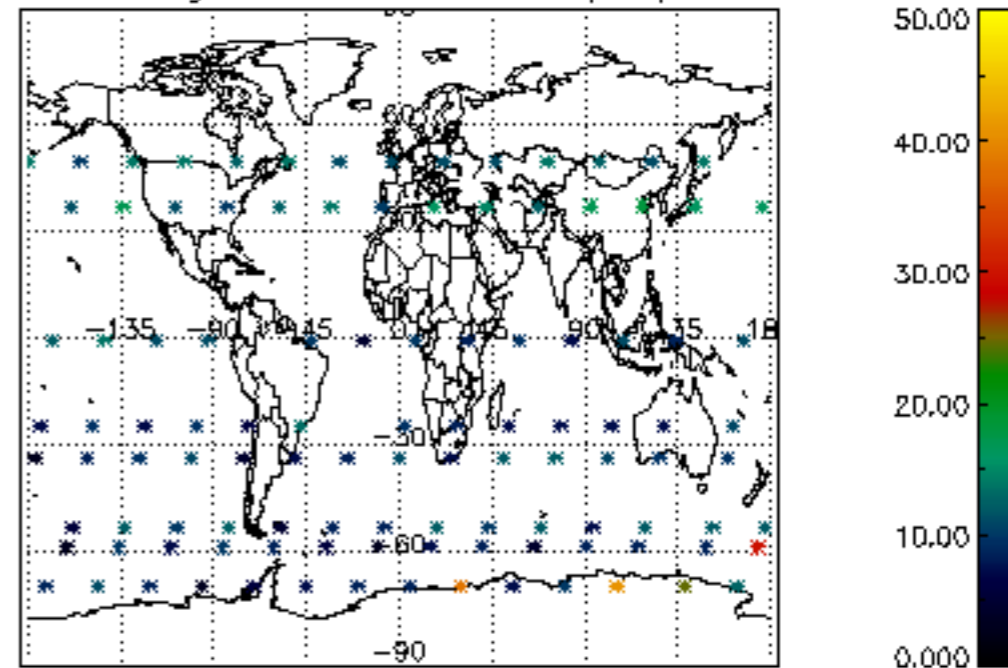
Percentage of datation errors per profile

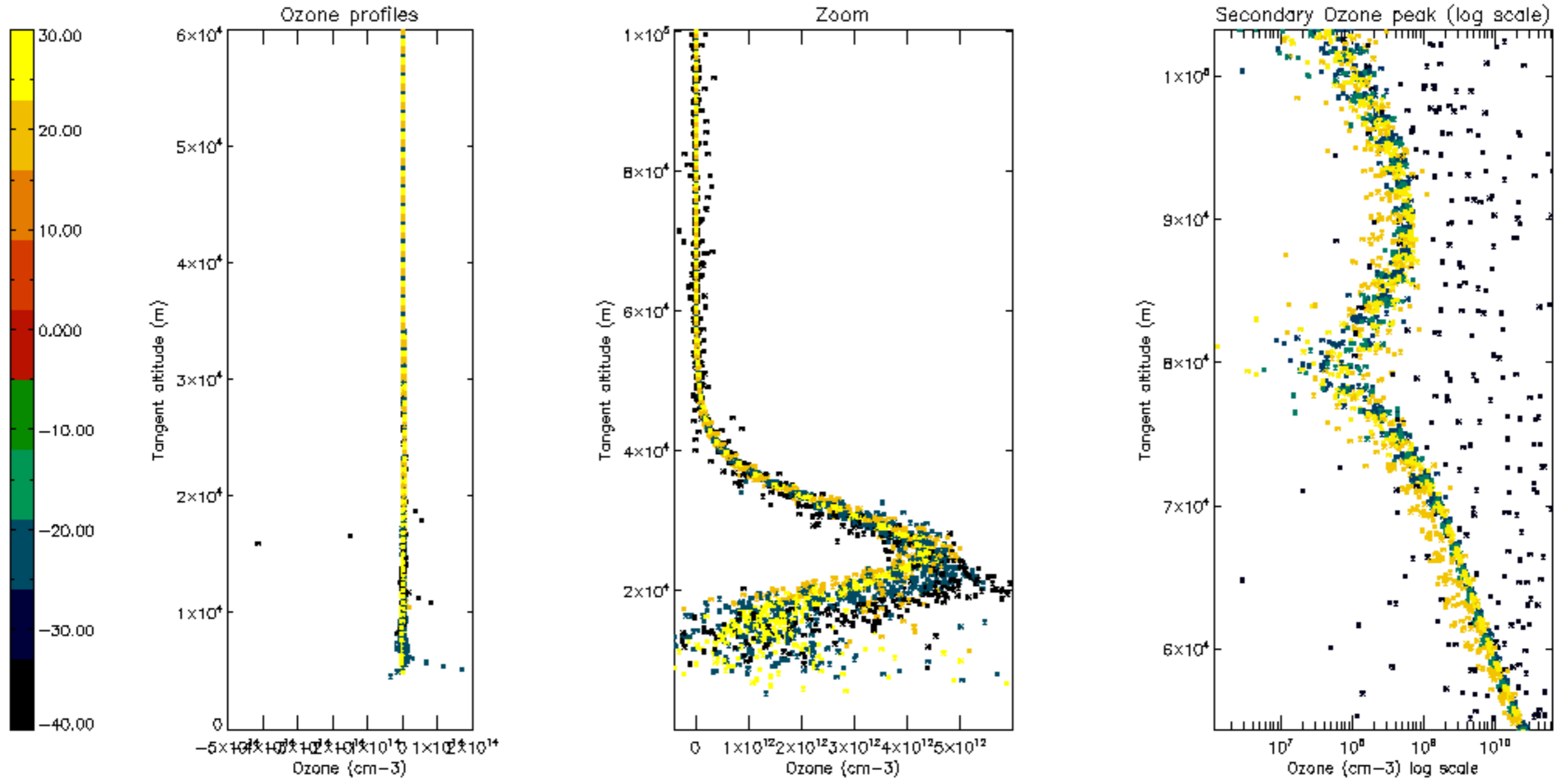


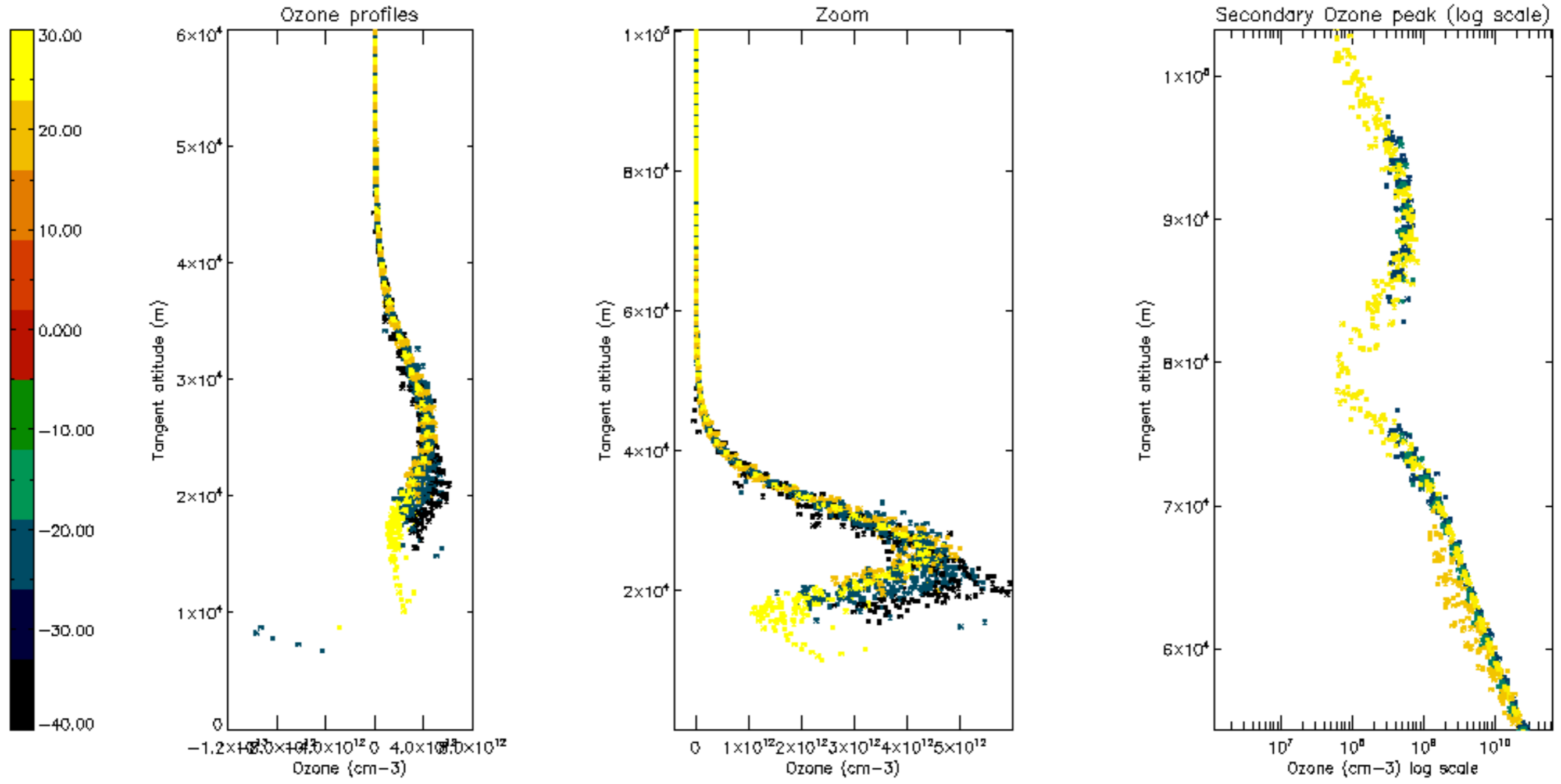
Percentage of star falling outside central band per profile

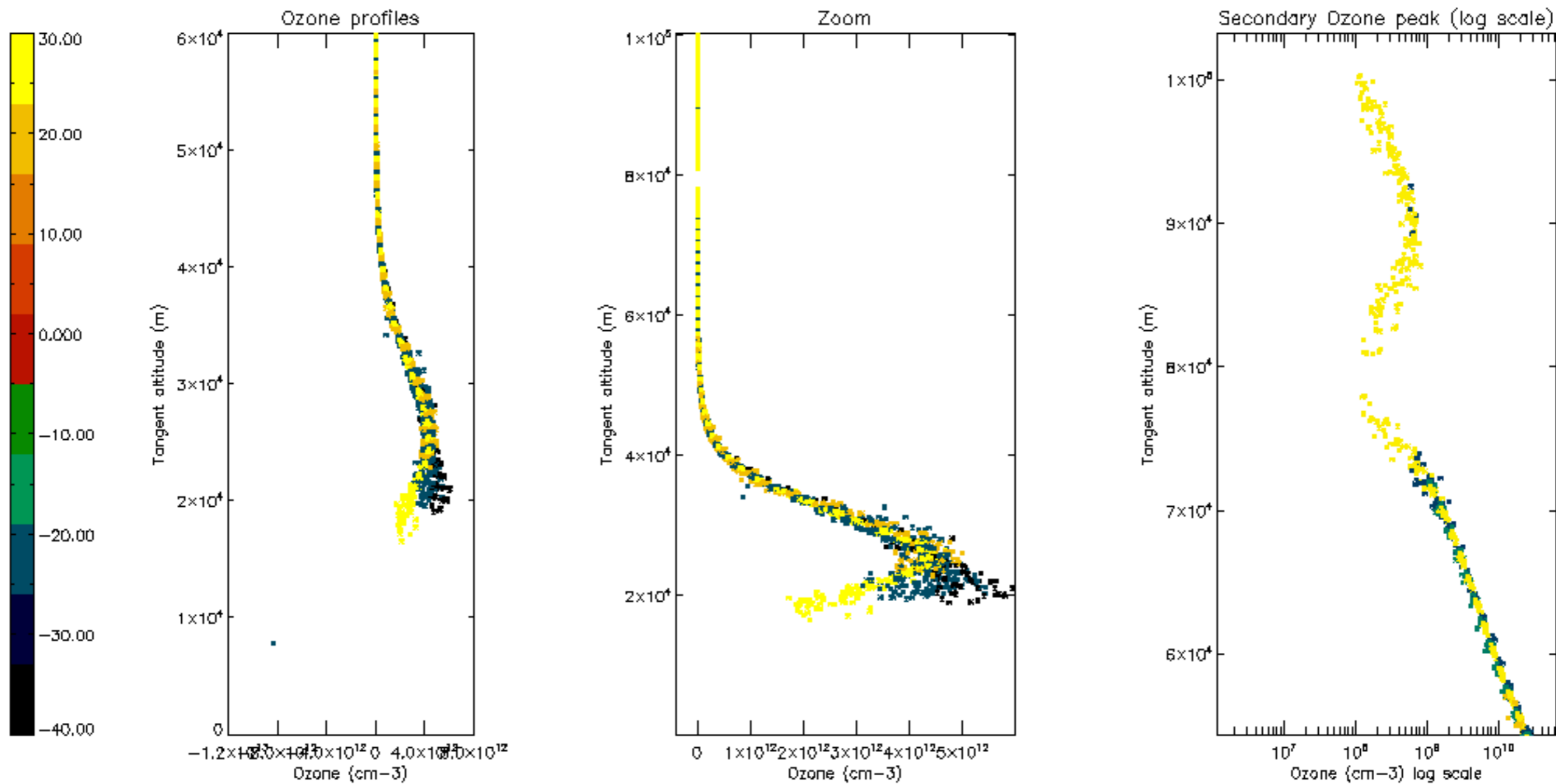


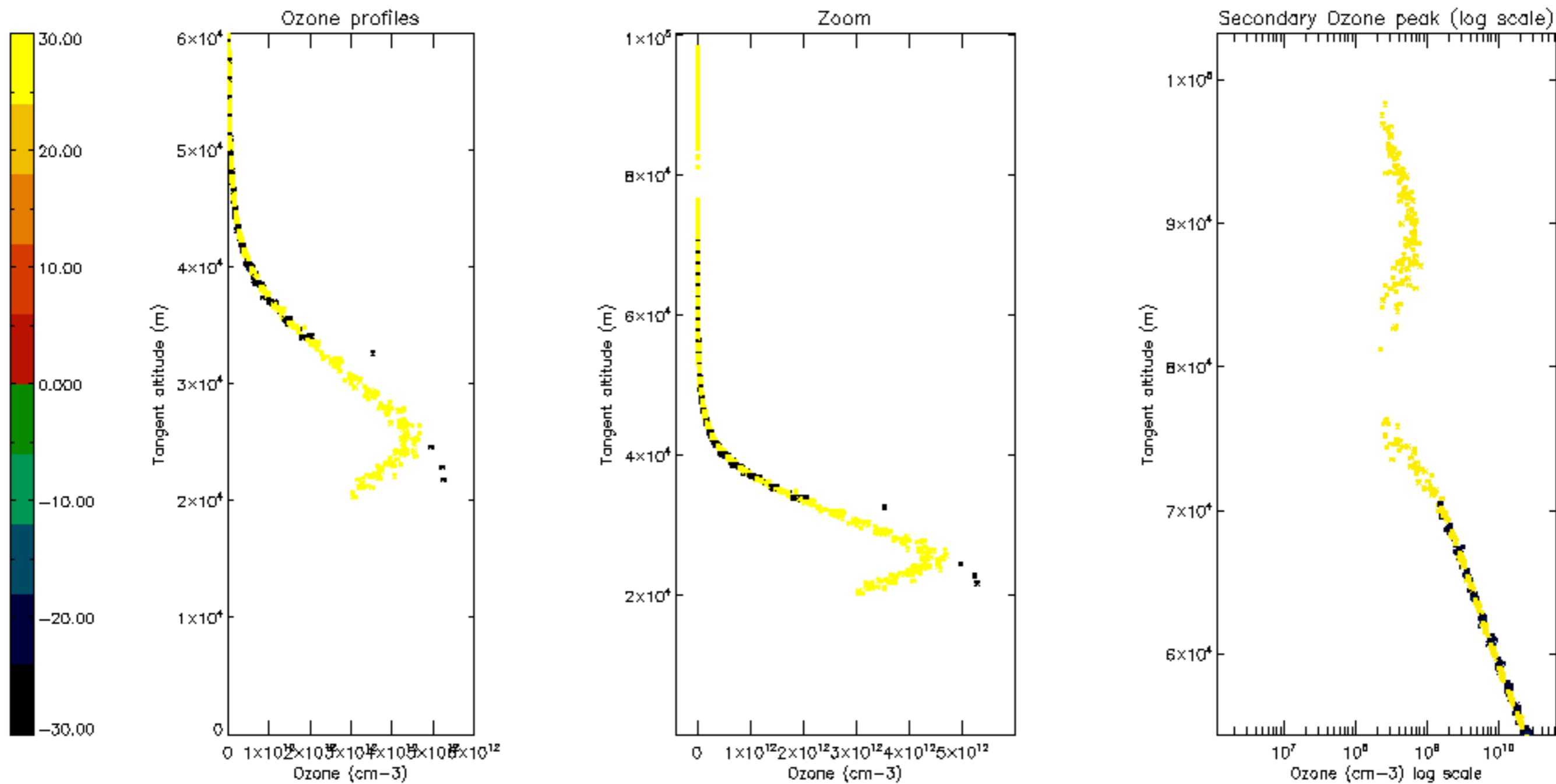
Percentage of saturation errors per profile

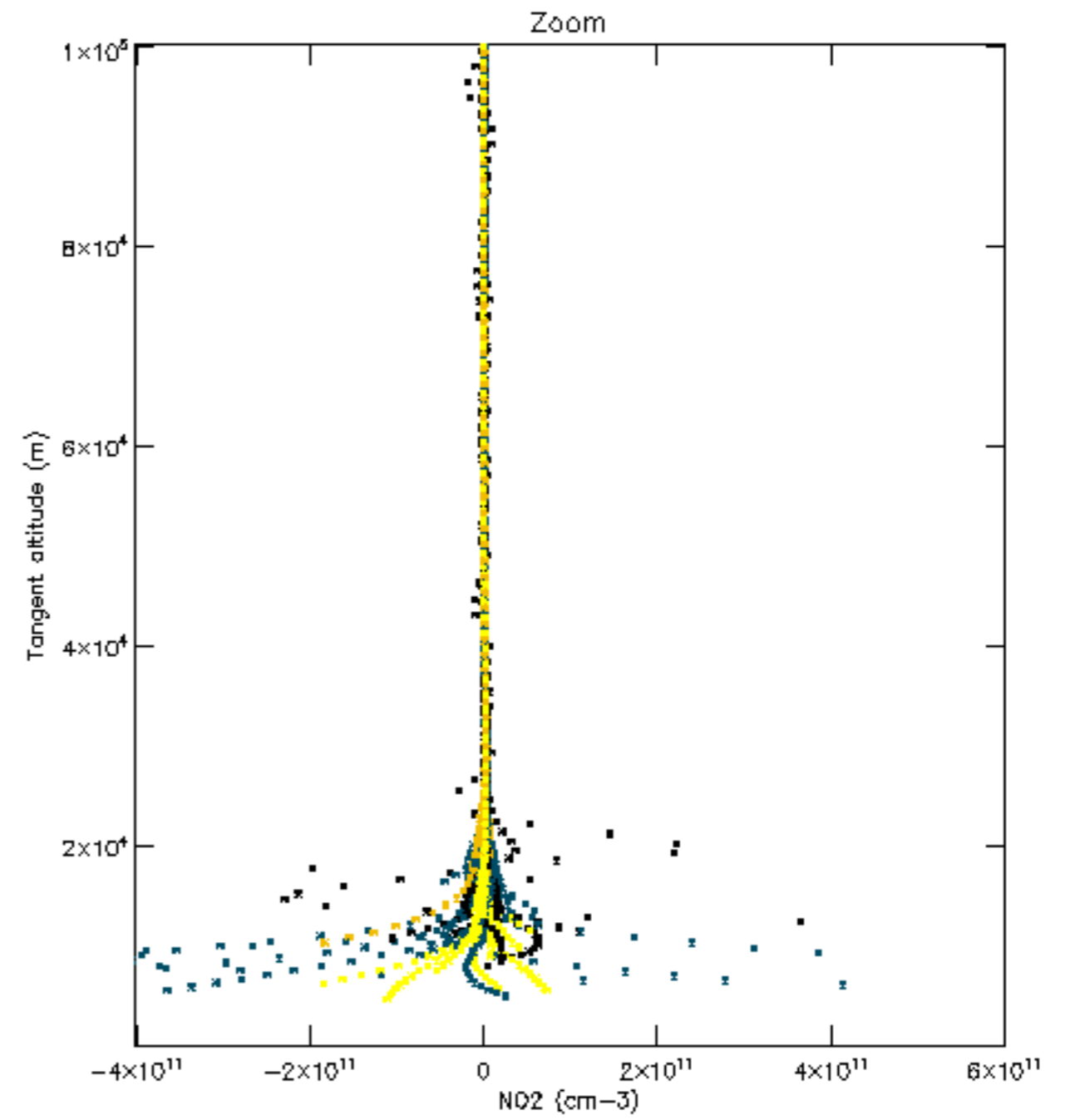
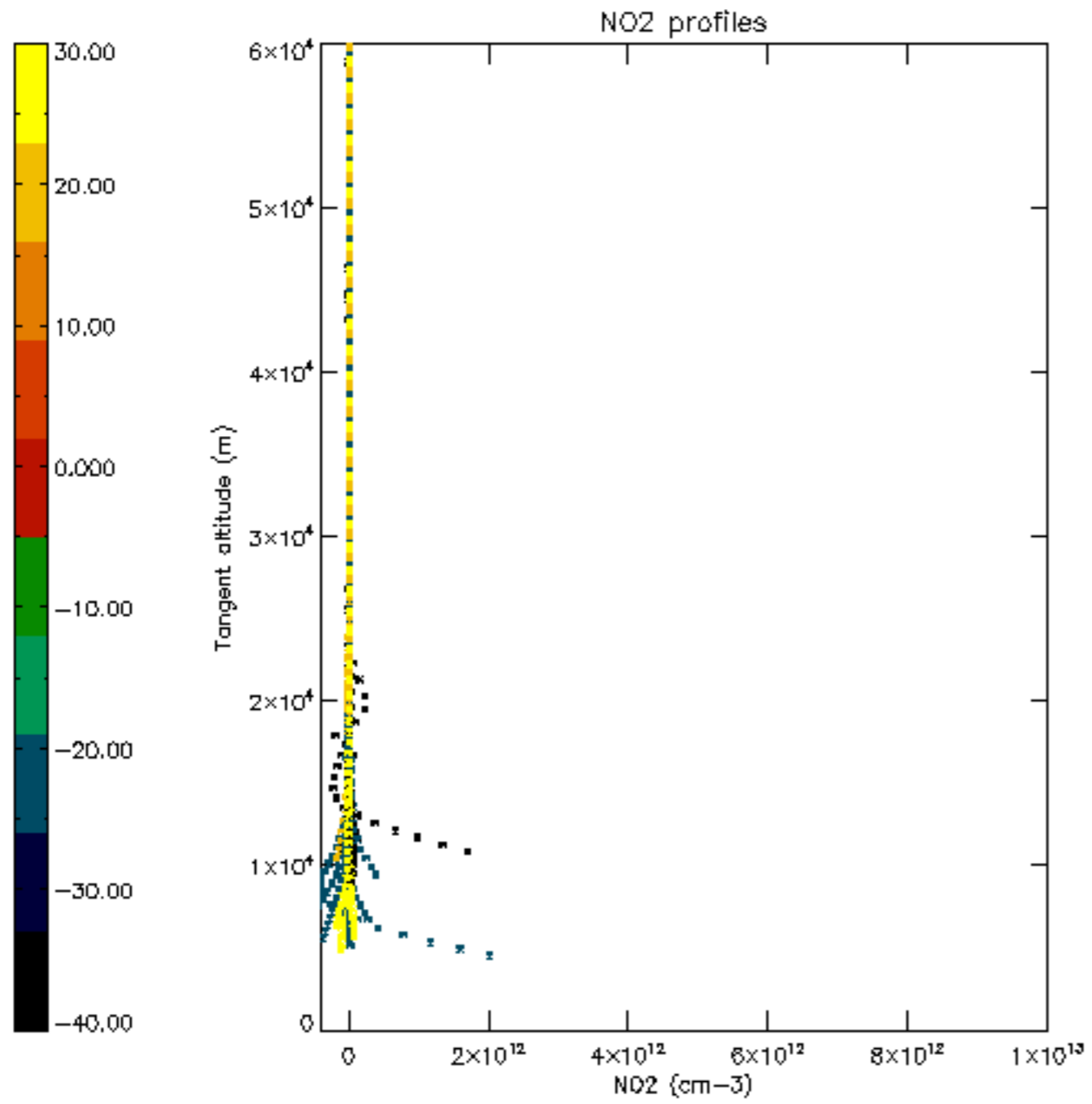


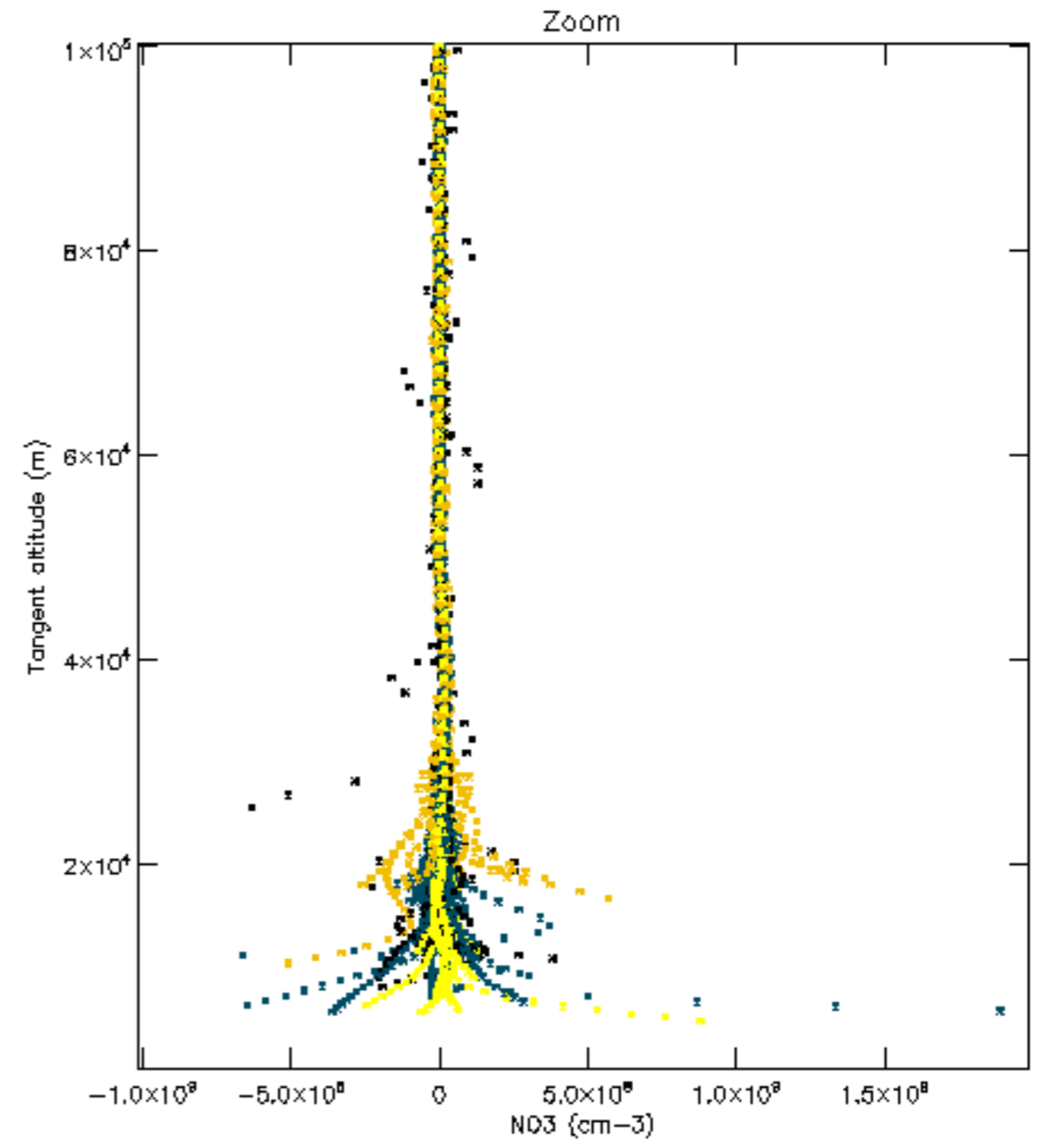
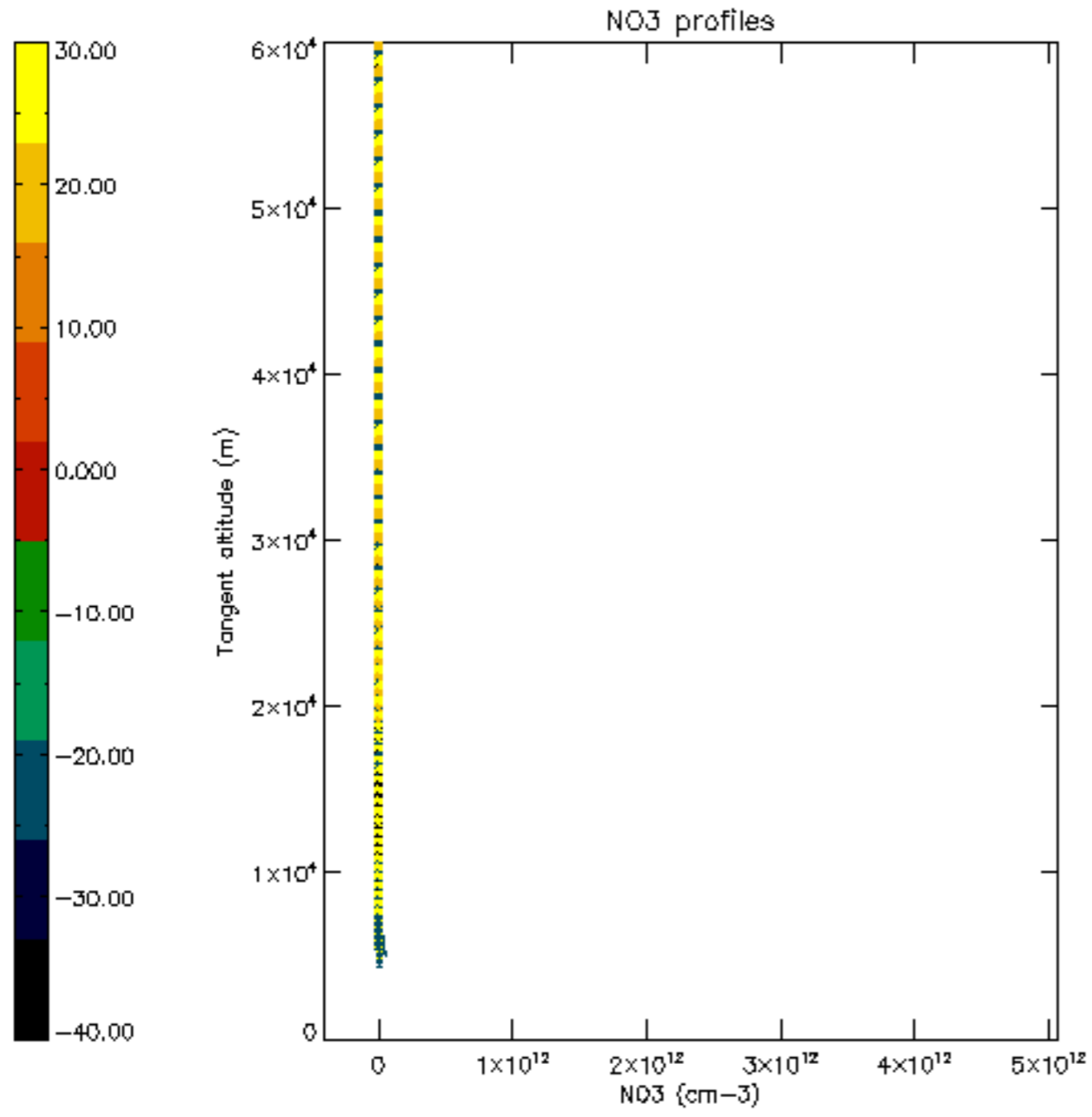


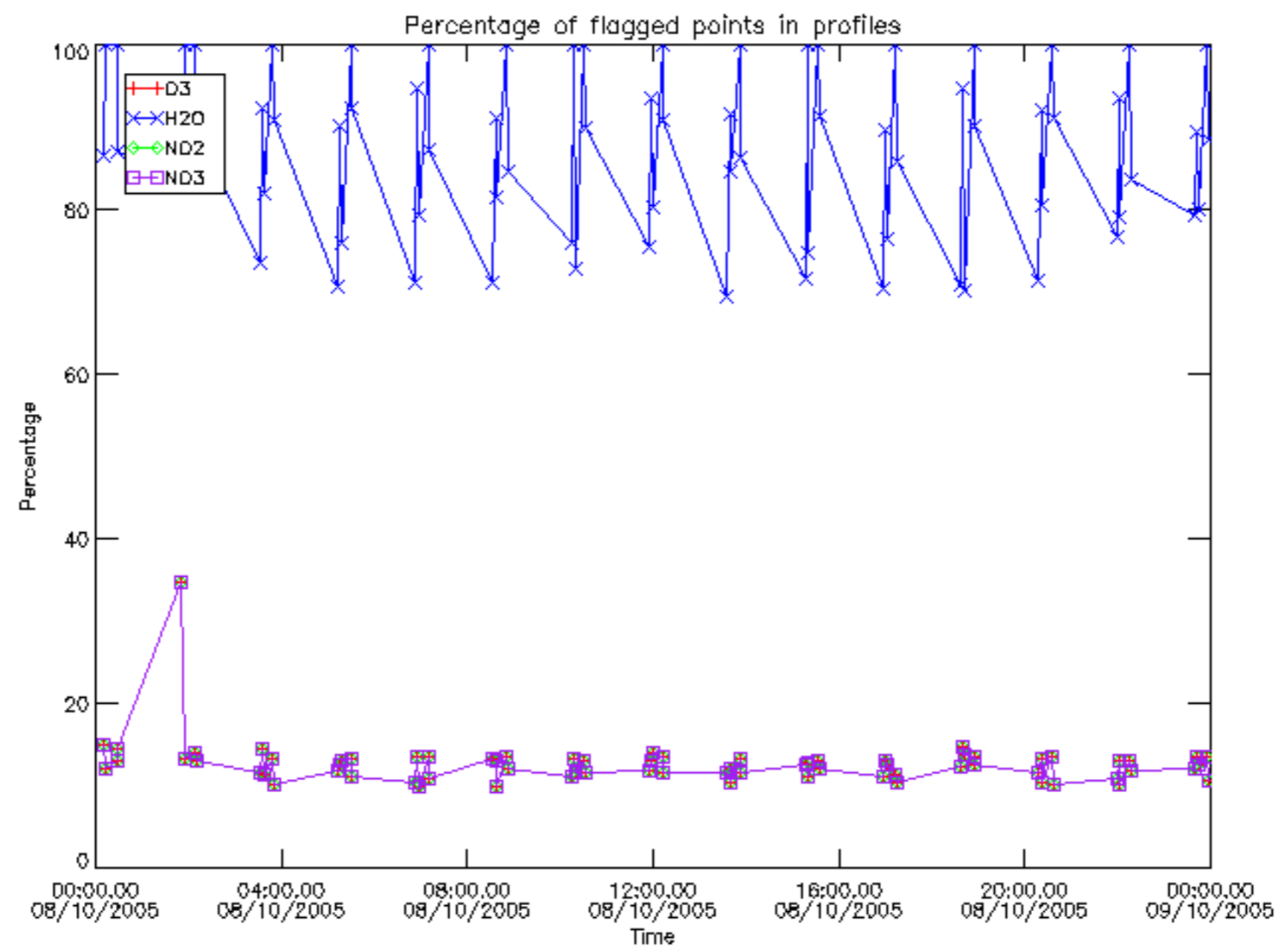




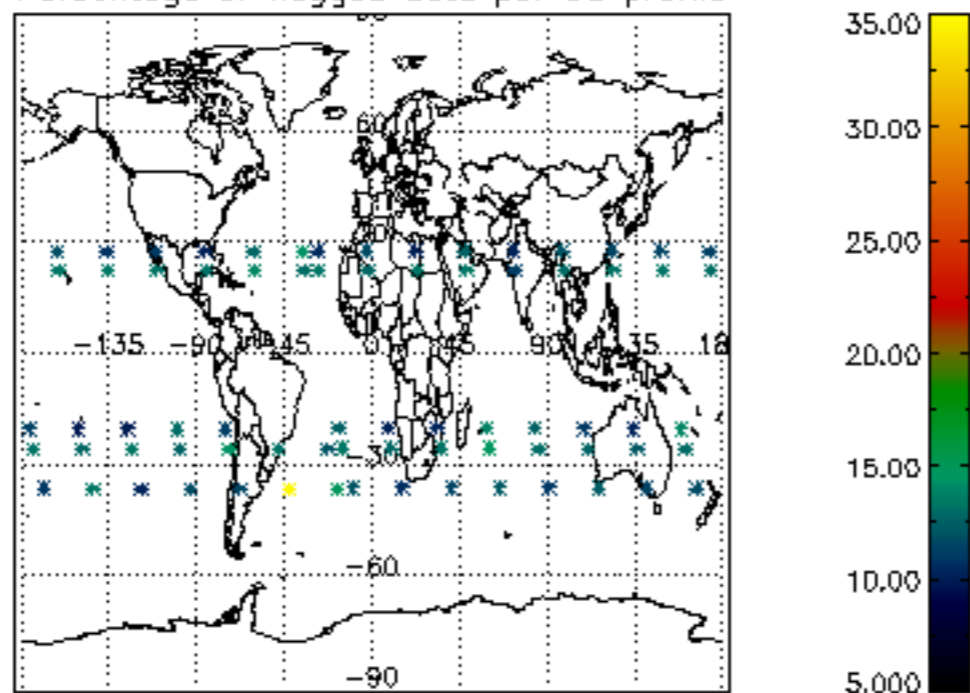




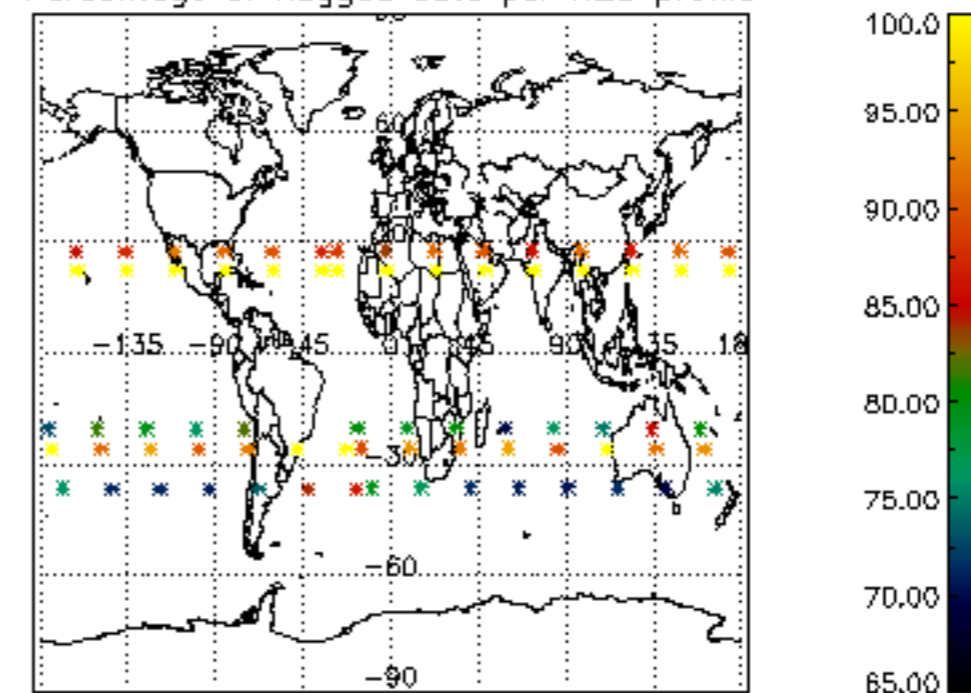




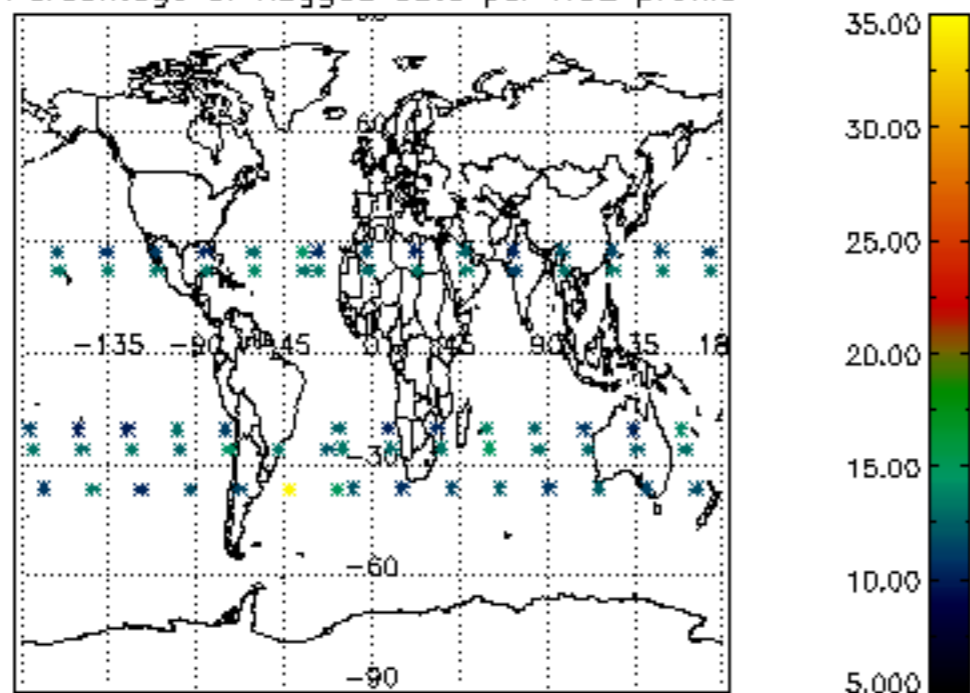
Percentage of flagged data per D3 profile



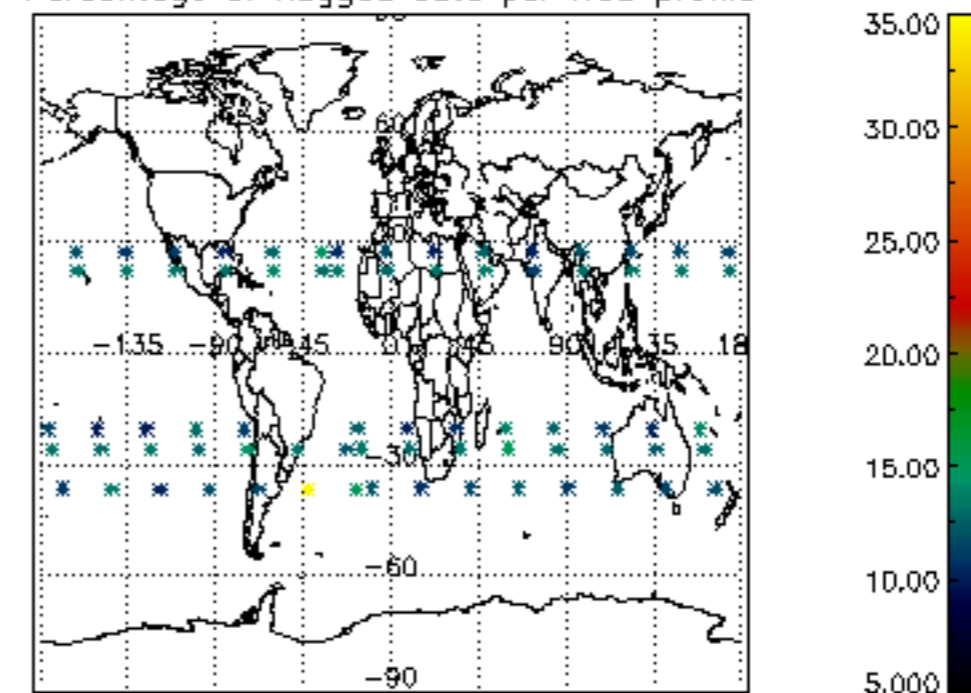
Percentage of flagged data per H2O profile

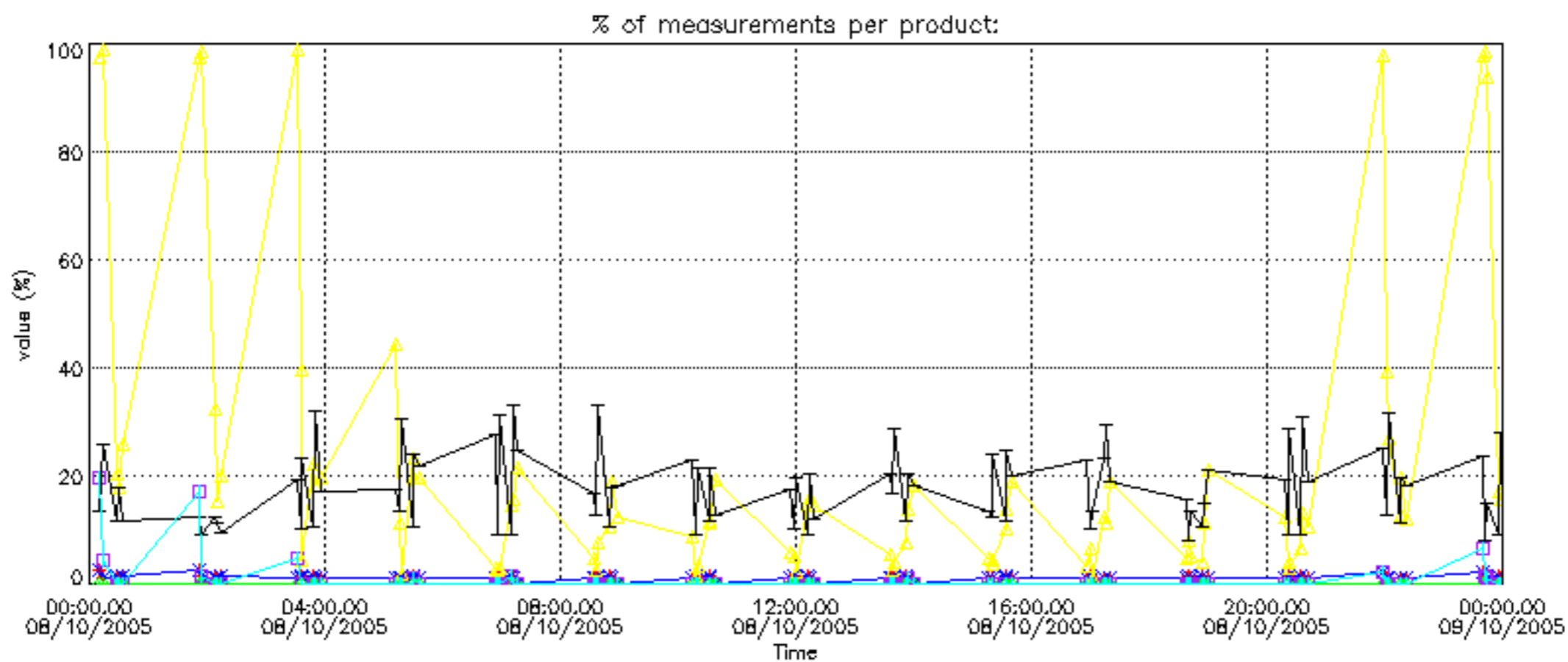


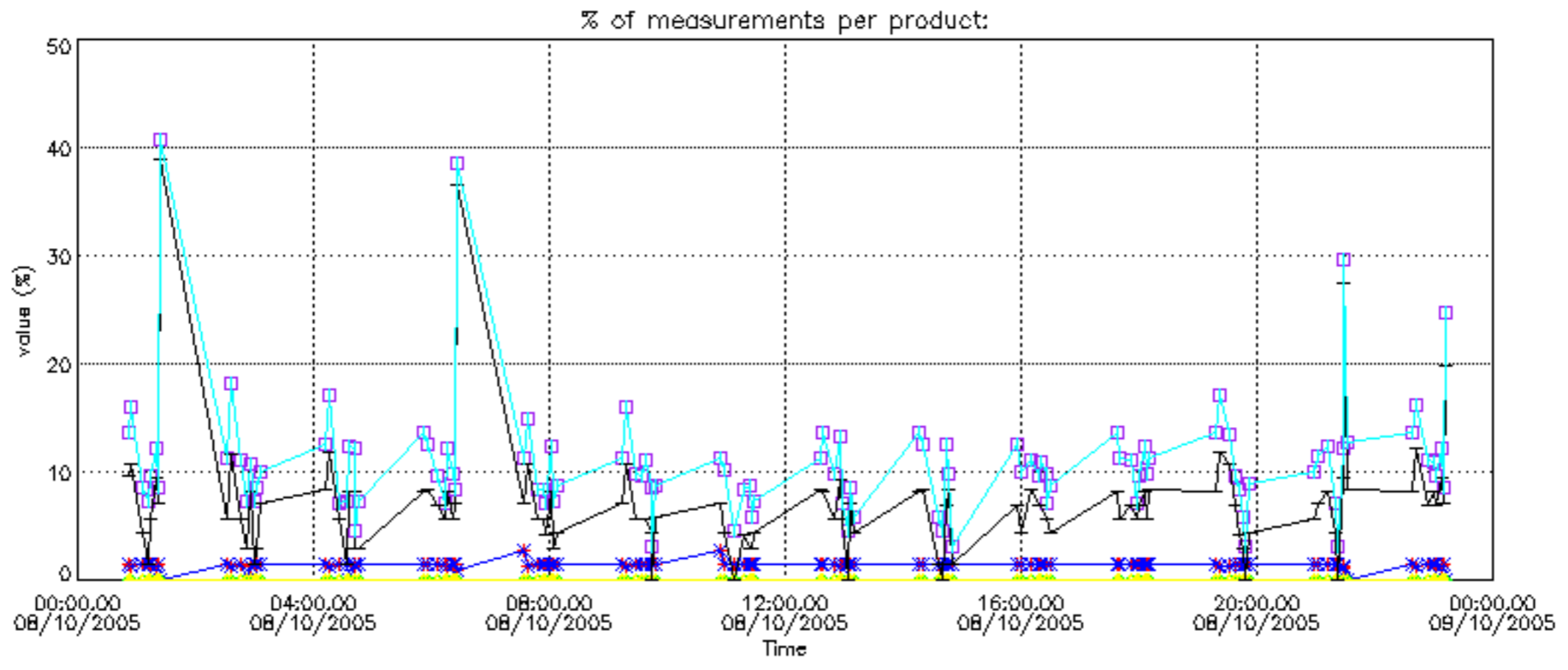
Percentage of flagged data per NO2 profile



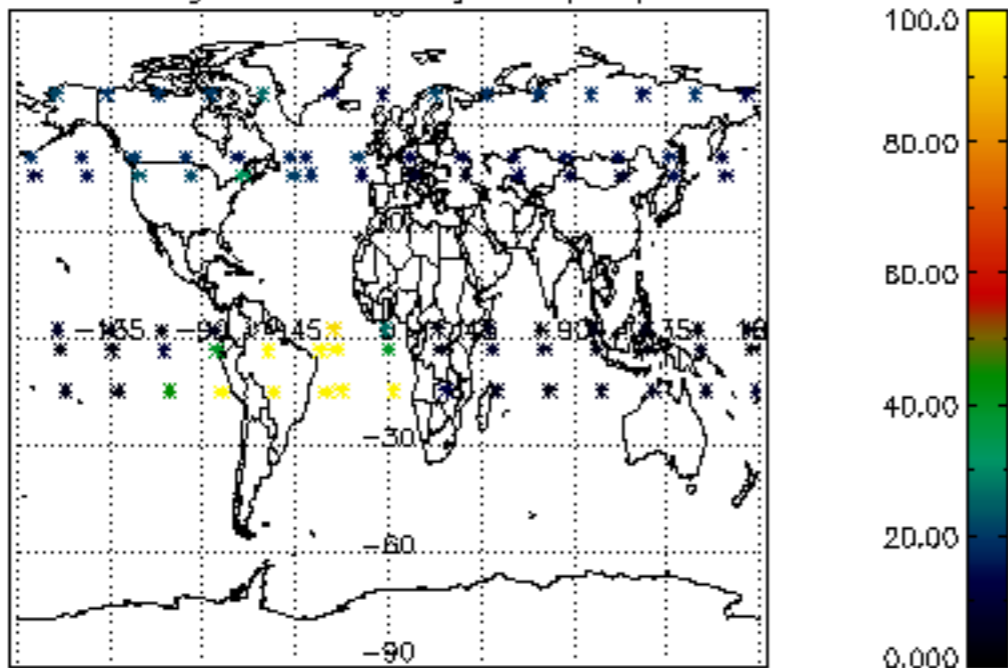
Percentage of flagged data per NO3 profile



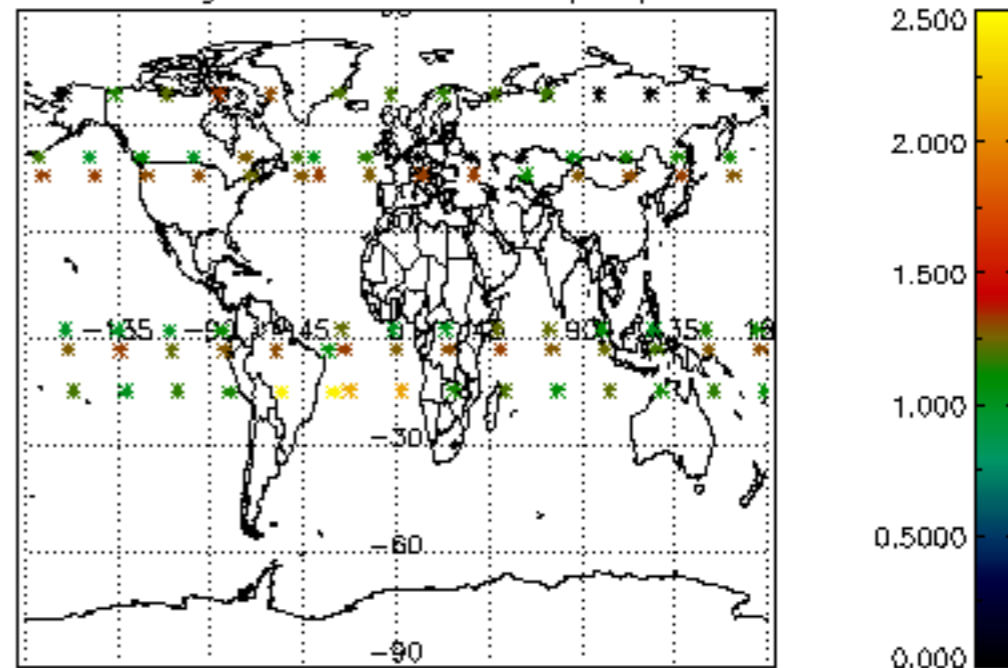




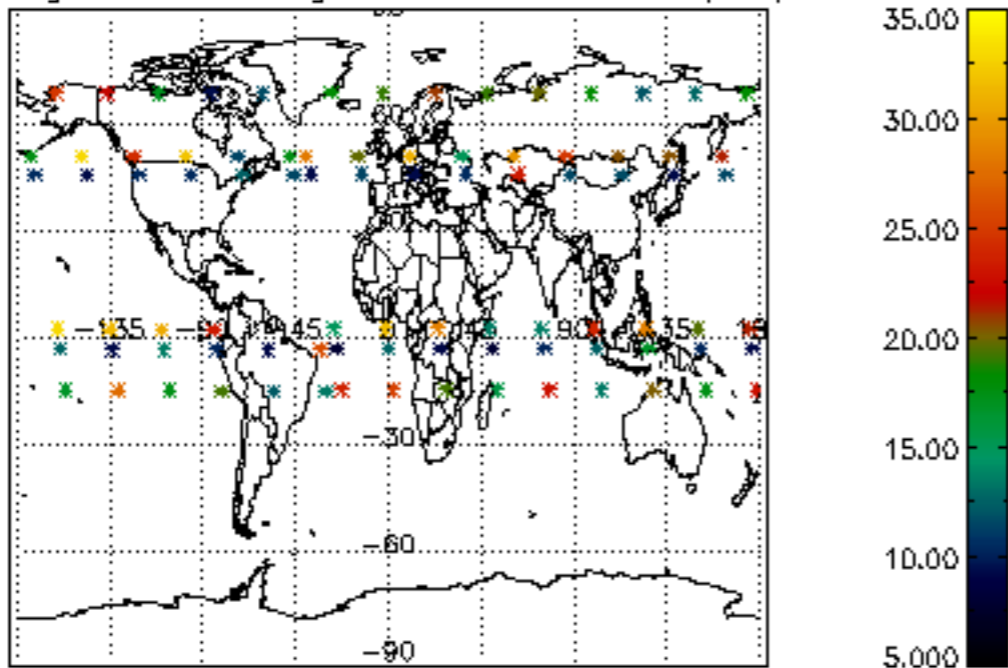
Percentage of cosmic ray hits per profile



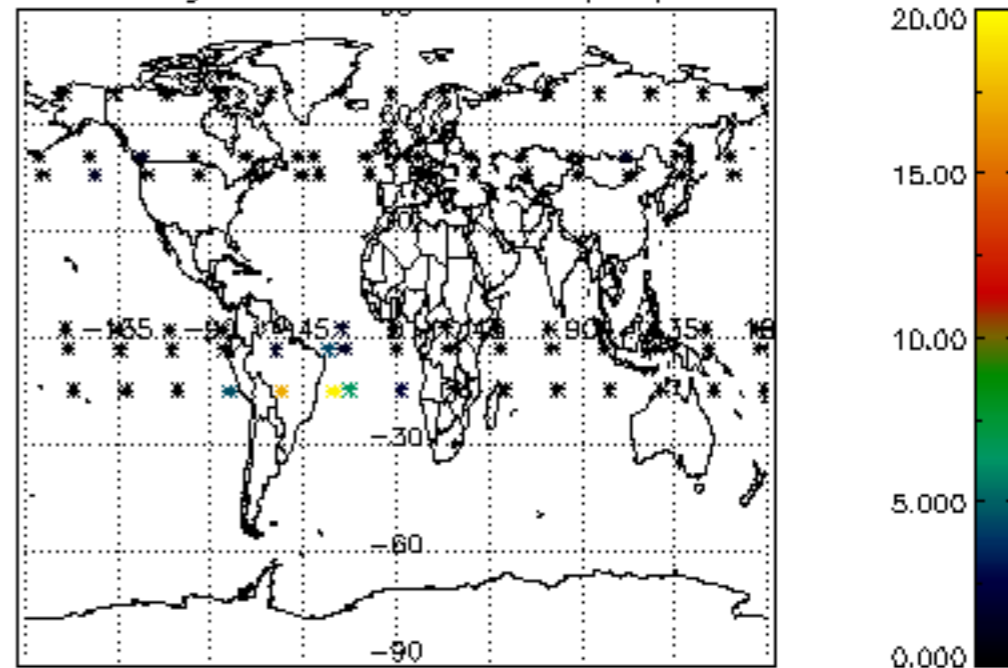
Percentage of datation errors per profile



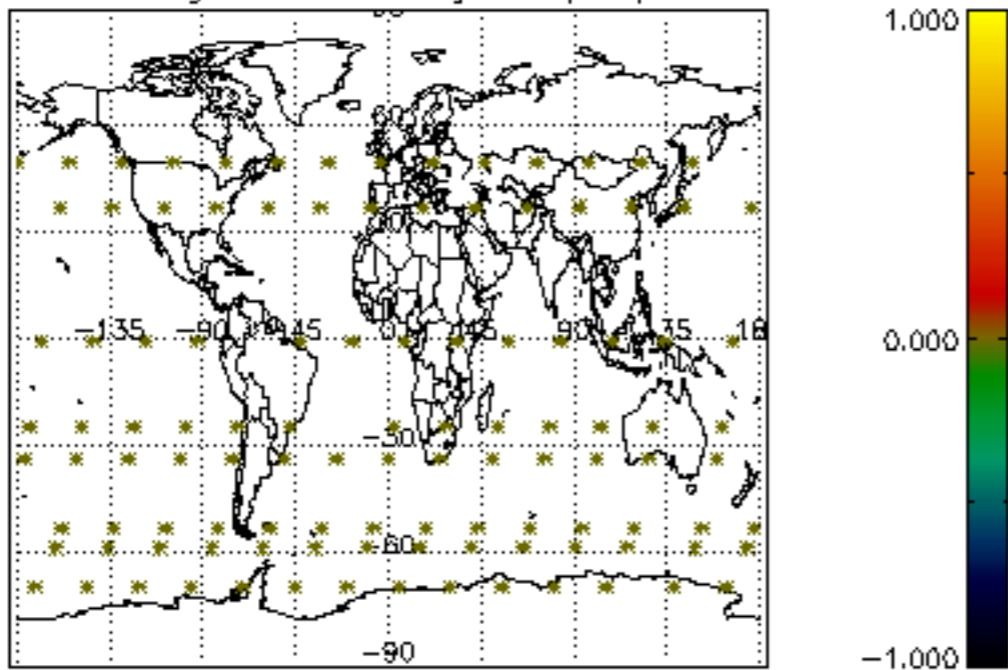
Percentage of star falling outside central band per profile



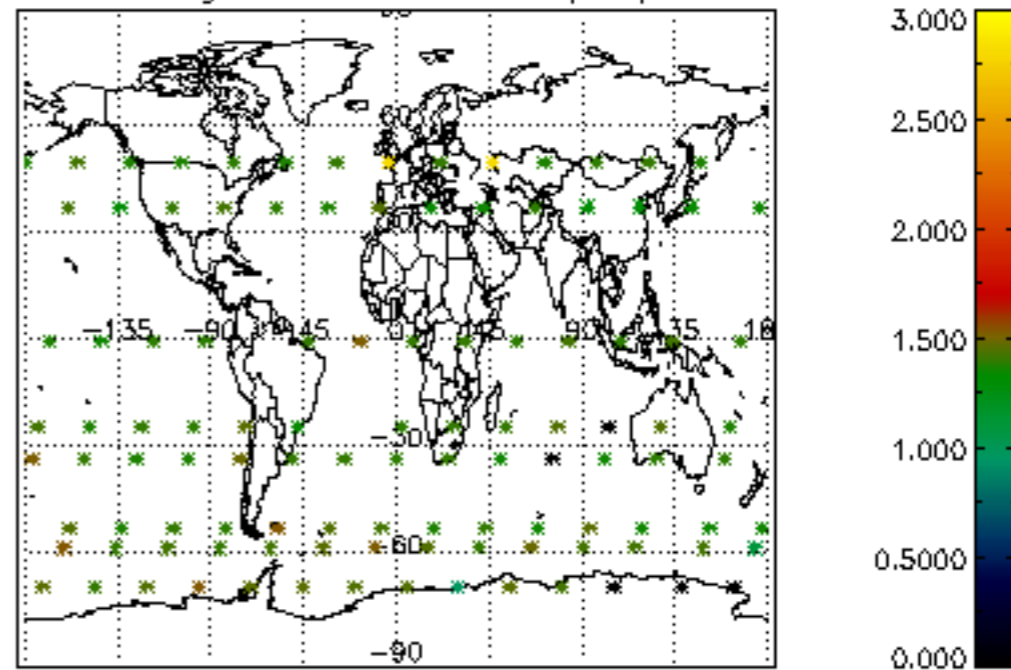
Percentage of saturation errors per profile



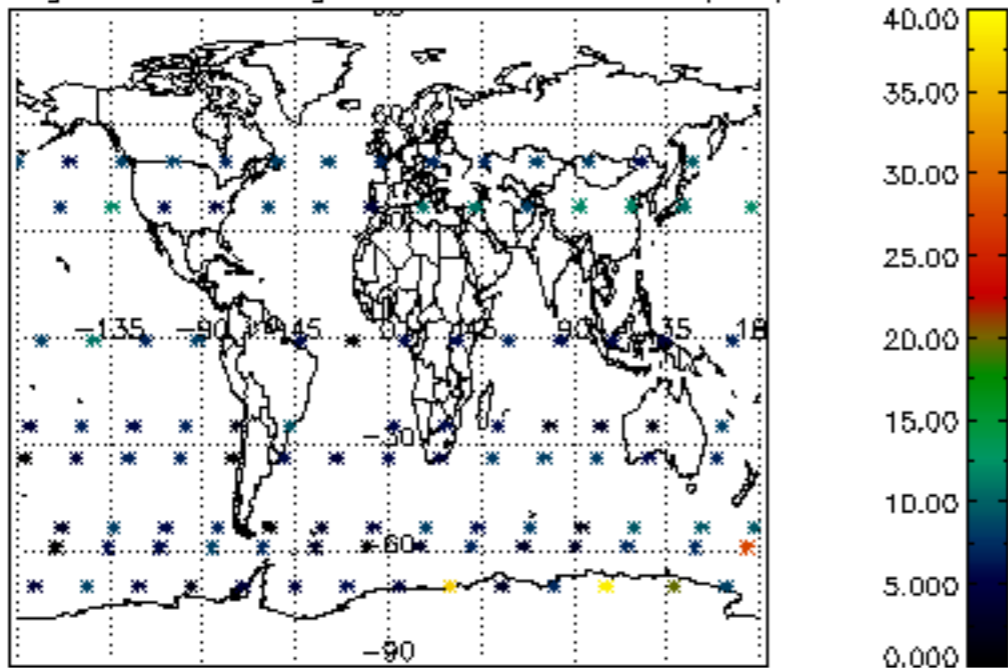
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

