

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 04:01:25
Data source version	GOMOS/6.01
Start time of products	06-09-2006 (06SEP2006 00:00:00)
Stop time of products	07-09-2006 (07SEP2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	293
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

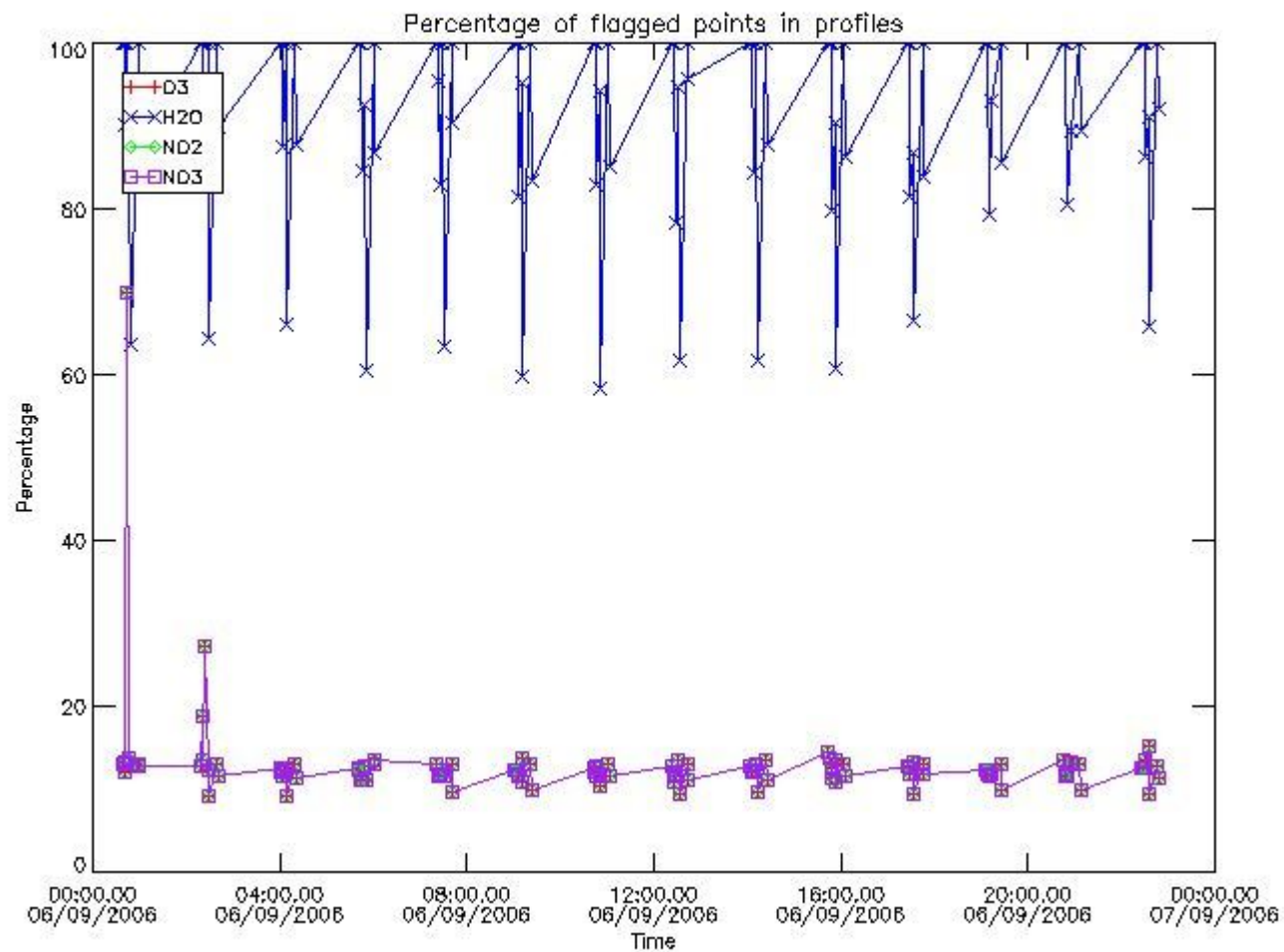
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060906_000549_000000362051_00016_23617_1785.N1	06-SEP-2006 00:05:49	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23617	No
2	GOM_NL__2PRFIN20060906_002402_000000412051_00016_23617_1786.N1	06-SEP-2006 00:24:02	Bright	40.500	17	78Bet Gem	1.1610	4500.0	81	23617	No
3	GOM_NL__2PRFIN20060906_003054_000000492051_00016_23617_1787.N1	06-SEP-2006 00:30:54	Twilight	49.000	8	10Alp CMi	0.40000	6500.0	98	23617	No
4	GOM_NL__2PRFIN20060906_003826_000000392051_00016_23617_1788.N1	06-SEP-2006 00:38:26	Dark	39.000	132	15Rho Pup	2.8030	6900.0	78	23617	No
5	GOM_NL__2PRFIN20060906_004005_000000432051_00016_23617_1789.N1	06-SEP-2006 00:40:05	Dark	42.500	179	24Omi2CMa	3.0320	24000.	85	23617	No
6	GOM_NL__2PRFIN20060906_004133_000000462051_00016_23617_1790.N1	06-SEP-2006 00:41:33	Dark	46.000	23	21Eps CMa	1.5020	26000.	92	23617	No
7	GOM_NL__2PRFIN20060906_004259_000000422051_00016_23617_1791.N1	06-SEP-2006 00:42:59	Dark	42.000	117	Pi Pup	2.7060	3800.0	84	23617	No
8	GOM_NL__2PRFIN20060906_004700_000000372051_00016_23617_1792.N1	06-SEP-2006 00:47:00	Dark	37.000	161	Tau Pup	2.9310	4500.0	74	23617	No
9	GOM_NL__2PRFIN20060906_004812_000000432051_00016_23617_1793.N1	06-SEP-2006 00:48:12	Dark	43.000	2	Alp Car	-0.73600	7000.0	86	23617	No
10	GOM_NL__2PRFIN20060906_005836_000000402051_00017_23618_1792.N1	06-SEP-2006 00:58:36	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	23618	No
11	GOM_NL__2PRFIN20060906_005956_000000442051_00017_23618_1793.N1	06-SEP-2006 00:59:56	Dark	44.000	9	Alp Eri	0.45300	24000.	88	23618	No
12	GOM_NL__2PRFIN20060906_010732_000000402051_00017_23618_1794.N1	06-SEP-2006 01:07:32	Straylight	40.000	31	Alp Gru	1.7340	15200.	80	23618	No
13	GOM_NL__2PRFIN20060906_011020_000000392051_00017_23618_1795.N1	06-SEP-2006 01:10:20	Straylight	39.000	172	Gam Gru	3.0030	13100.	78	23618	No
14	GOM_NL__2PRFIN20060906_011139_000000482051_00017_23618_1796.N1	06-SEP-2006 01:11:39	Straylight	48.000	18	24Alp PsA	1.1660	9700.0	96	23618	No
15	GOM_NL__2PRFIN20060906_011620_000000402051_00017_23618_1797.N1	06-SEP-2006 01:16:20	Bright	40.000	142	49Del Cap	2.8500	8900.0	80	23618	No
16	GOM_NL__2PRFIN20060906_011926_000000382051_00017_23618_1798.N1	06-SEP-2006 01:19:26	Bright	37.500	154	22Bet Aqr	2.8990	5700.0	75	23618	No
17	GOM_NL__2PRFIN20060906_012047_000000402051_00017_23618_1799.N1	06-SEP-2006 01:20:47	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	23618	No
18	GOM_NL__2PRFIN20060906_012346_000000382051_00017_23618_1800.N1	06-SEP-2006 01:23:46	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	23618	No
19	GOM_NL__2PRFIN20060906_013045_000000372051_00017_23618_1801.N1	06-SEP-2006 01:30:45	Bright	36.500	92	53Eps Cyg	2.5000	4500.0	73	23618	No
20	GOM_NL__2PRFIN20060906_013243_000000362051_00017_23618_1802.N1	06-SEP-2006 01:32:43	Bright	36.000	66	37Gam Cyg	2.2080	5900.0	72	23618	No
21	GOM_NL__2PRFIN20060906_013354_000000352051_00017_23618_1803.N1	06-SEP-2006 01:33:54	Bright	34.500	19	50Alp Cyg	1.2460	10500.	69	23618	No
22	GOM_NL__2PRFIN20060906_013842_000000342051_00017_23618_1804.N1	06-SEP-2006 01:38:42	Bright	33.500	89	5Alp Cep	2.4510	8000.0	67	23618	No
23	GOM_NL__2PRFIN20060906_014625_000000362051_00017_23618_1805.N1	06-SEP-2006 01:46:25	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23618	No
24	GOM_NL__2PRFIN20060906_020438_000000402051_00017_23618_1806.N1	06-SEP-2006 02:04:38	Bright	40.000	17	78Bet Gem	1.1610	4500.0	80	23618	No
25	GOM_NL__2PRFIN20060906_021130_000000432051_00017_23618_1807.N1	06-SEP-2006 02:11:30	Twilight	42.500	8	10Alp CMi	0.40000	6500.0	85	23618	No
26	GOM_NL__2PRFIN20060906_021903_000000402051_00017_23618_1808.N1	06-SEP-2006 02:19:03	Dark	40.000	132	15Rho Pup	2.8030	6900.0	80	23618	No
27	GOM_NL__2PRFIN20060906_022041_000000442051_00017_23618_1809.N1	06-SEP-2006 02:20:41	Dark	43.500	179	24Omi2CMa	3.0320	24000.	87	23618	No
28	GOM_NL__2PRFIN20060906_022210_000000452051_00017_23618_1810.N1	06-SEP-2006 02:22:10	Dark	45.000	23	21Eps CMa	1.5020	26000.	90	23618	No
29	GOM_NL__2PRFIN20060906_022335_000000492051_00017_23618_1811.N1	06-SEP-2006 02:23:35	Dark	48.500	117	Pi Pup	2.7060	3800.0	97	23618	No
30	GOM_NL__2PRFIN20060906_022736_000000422051_00017_23618_1812.N1	06-SEP-2006 02:27:36	Dark	41.500	161	Tau Pup	2.9310	4500.0	83	23618	No
31	GOM_NL__2PRFIN20060906_022849_000000552051_00017_23618_1813.N1	06-SEP-2006 02:28:49	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	23618	No
32	GOM_NL__2PRFIN20060906_023912_000000402051_00018_23619_1792.N1	06-SEP-2006 02:39:12	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	23619	No
33	GOM_NL__2PRFIN20060906_024033_000000452051_00018_23619_1793.N1	06-SEP-2006 02:40:33	Dark	44.500	9	Alp Eri	0.45300	24000.	89	23619	No
34	GOM_NL__2PRFIN20060906_024808_000000392051_00018_23619_1794.N1	06-SEP-2006 02:48:08	Straylight	39.000	31	Alp Gru	1.7340	15200.	78	23619	No
35	GOM_NL__2PRFIN20060906_025056_000000382051_00018_23619_1795.N1	06-SEP-2006 02:50:56	Straylight	37.500	172	Gam Gru	3.0030	13100.	75	23619	No
36	GOM_NL__2PRFIN20060906_025215_000000482051_00018_23619_1796.N1	06-SEP-2006 02:52:15	Straylight	47.500	18	24Alp PsA	1.1660	9700.0	95	23619	No
37	GOM_NL__2PRFIN20060906_025656_000000432051_00018_23619_1797.N1	06-SEP-2006 02:56:56	Bright	42.500	142	49Del Cap	2.8500	8900.0	85	23619	No
38	GOM_NL__2PRFIN20060906_030002_000000382051_00018_23619_1798.N1	06-SEP-2006 03:00:02	Bright	37.500	154	22Bet Aqr	2.8990	5700.0	75	23619	No
39	GOM_NL__2PRFIN20060906_030123_000000392051_00018_23619_1799.N1	06-SEP-2006 03:01:23	Bright	38.500	162	34Alp Aqr	2.9440	5350.0	77	23619	No
40	GOM_NL__2PRFIN20060906_030421_000000382051_00018_23619_1800.N1	06-SEP-2006 03:04:21	Bright	38.000	61	8Eps Peg	2.1000	3900.0	76	23619	No
41	GOM_NL__2PRFIN20060906_031121_000000362051_00018_23619_1801.N1	06-SEP-2006 03:11:21	Bright	35.500	92	53Eps Cyg	2.5000	4500.0	71	23619	No
42	GOM_NL__2PRFIN20060906_031319_000000362051_00018_23619_1802.N1	06-SEP-2006 03:13:19	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	23619	No

279	GOM_NL__2PRFIN20060906_224630_000000402051_00030_23631_1812.N1	06-SEP-2006 22:46:30	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	23631	No
280	GOM_NL__2PRFIN20060906_224751_000000452051_00030_23631_1813.N1	06-SEP-2006 22:47:51	Dark	45.000	9	Alp Eri	0.45300	24000.	90	23631	No
281	GOM_NL__2PRFIN20060906_225521_000000422051_00030_23631_1814.N1	06-SEP-2006 22:55:21	Straylight	41.500	31	Alp Gru	1.7340	15200.	83	23631	No
282	GOM_NL__2PRFIN20060906_225810_000000382051_00030_23631_1815.N1	06-SEP-2006 22:58:10	Straylight	38.000	172	Gam Gru	3.0030	13100.	76	23631	No
283	GOM_NL__2PRFIN20060906_225929_000000482051_00030_23631_1816.N1	06-SEP-2006 22:59:29	Straylight	48.000	18	24Alp PsA	1.1660	9700.0	96	23631	No
284	GOM_NL__2PRFIN20060906_230409_000000412051_00030_23631_1817.N1	06-SEP-2006 23:04:09	Bright	41.000	142	49Del Cap	2.8500	8900.0	82	23631	No
285	GOM_NL__2PRFIN20060906_230714_000000372051_00030_23631_1818.N1	06-SEP-2006 23:07:14	Bright	37.000	154	22Bet Aqr	2.8990	5700.0	74	23631	No
286	GOM_NL__2PRFIN20060906_230834_000000382051_00030_23631_1819.N1	06-SEP-2006 23:08:34	Bright	37.500	162	34Alp Aqr	2.9440	5350.0	75	23631	No
287	GOM_NL__2PRFIN20060906_231133_000000382051_00030_23631_1820.N1	06-SEP-2006 23:11:33	Bright	38.000	61	8Eps Peg	2.1000	3900.0	76	23631	No
288	GOM_NL__2PRFIN20060906_231834_000000342051_00030_23631_1821.N1	06-SEP-2006 23:18:34	Bright	34.000	92	53Eps Cyg	2.5000	4500.0	68	23631	No
289	GOM_NL__2PRFIN20060906_232032_000000372051_00030_23631_1822.N1	06-SEP-2006 23:20:32	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	23631	No
290	GOM_NL__2PRFIN20060906_232628_000000362051_00030_23631_1823.N1	06-SEP-2006 23:26:28	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	23631	No
291	GOM_NL__2PRFIN20060906_233411_000000352051_00030_23631_1824.N1	06-SEP-2006 23:34:11	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	23631	No
292	GOM_NL__2PRFIN20060906_235227_000000512051_00030_23631_1825.N1	06-SEP-2006 23:52:27	Bright	51.000	17	78Bet Gem	1.1610	4500.0	102	23631	No
293	GOM_NL__2PRFIN20060906_235921_000000542051_00030_23631_1826.N1	06-SEP-2006 23:59:21	Twilight	53.500	8	10Alp CMi	0.40000	6500.0	107	23631	No

3. Quality information per product

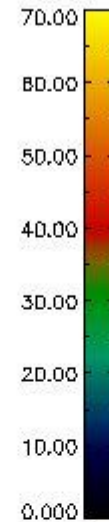
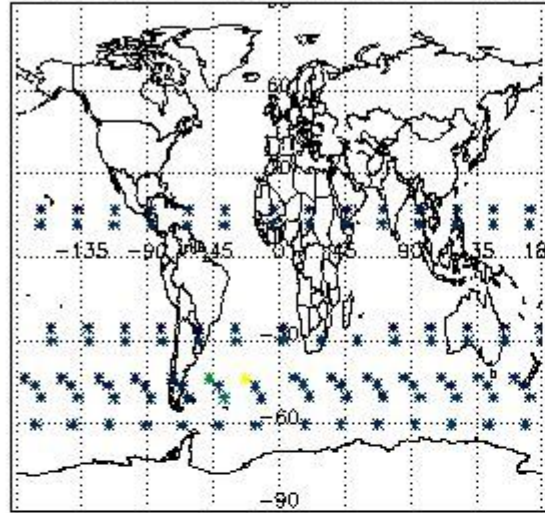
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

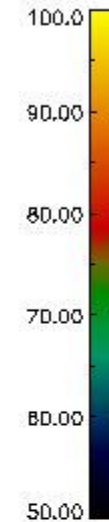
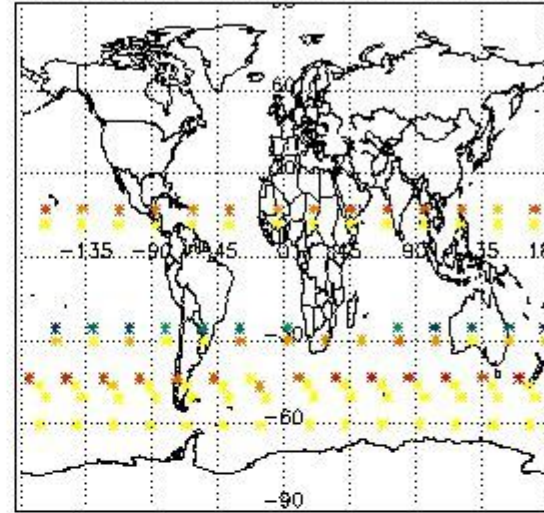


3.2 Plot quality information per product (world map)

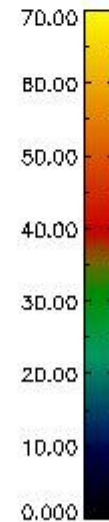
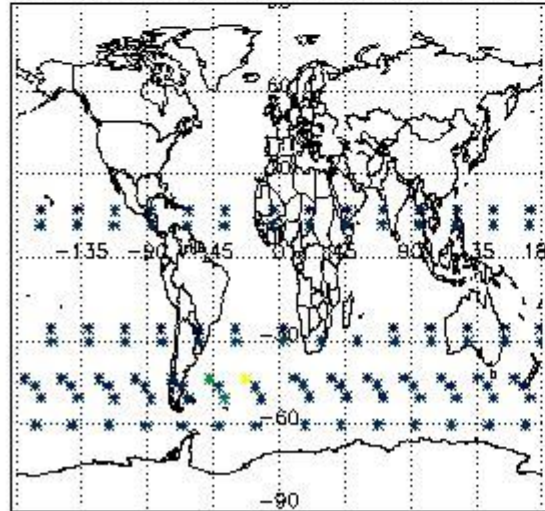
Percentage of flagged data per O3 profile



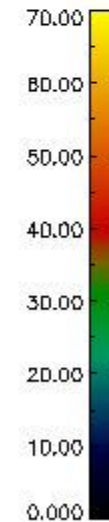
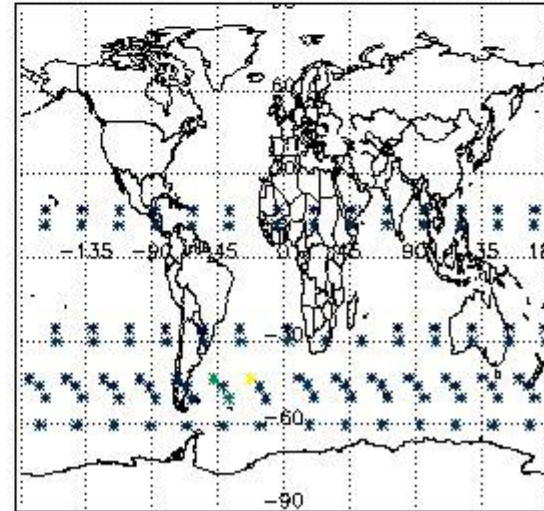
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

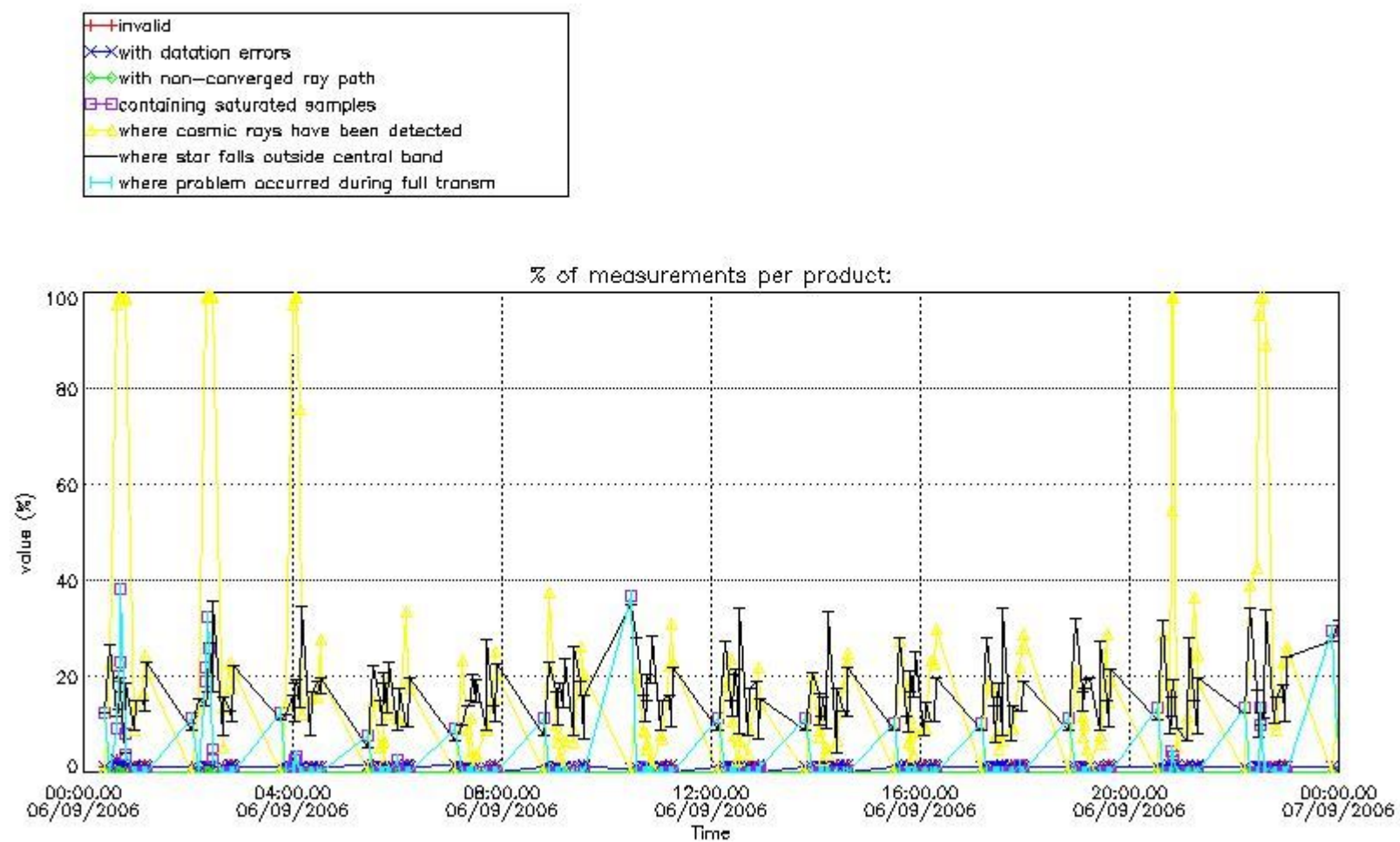


4. Level 1 quality information per product

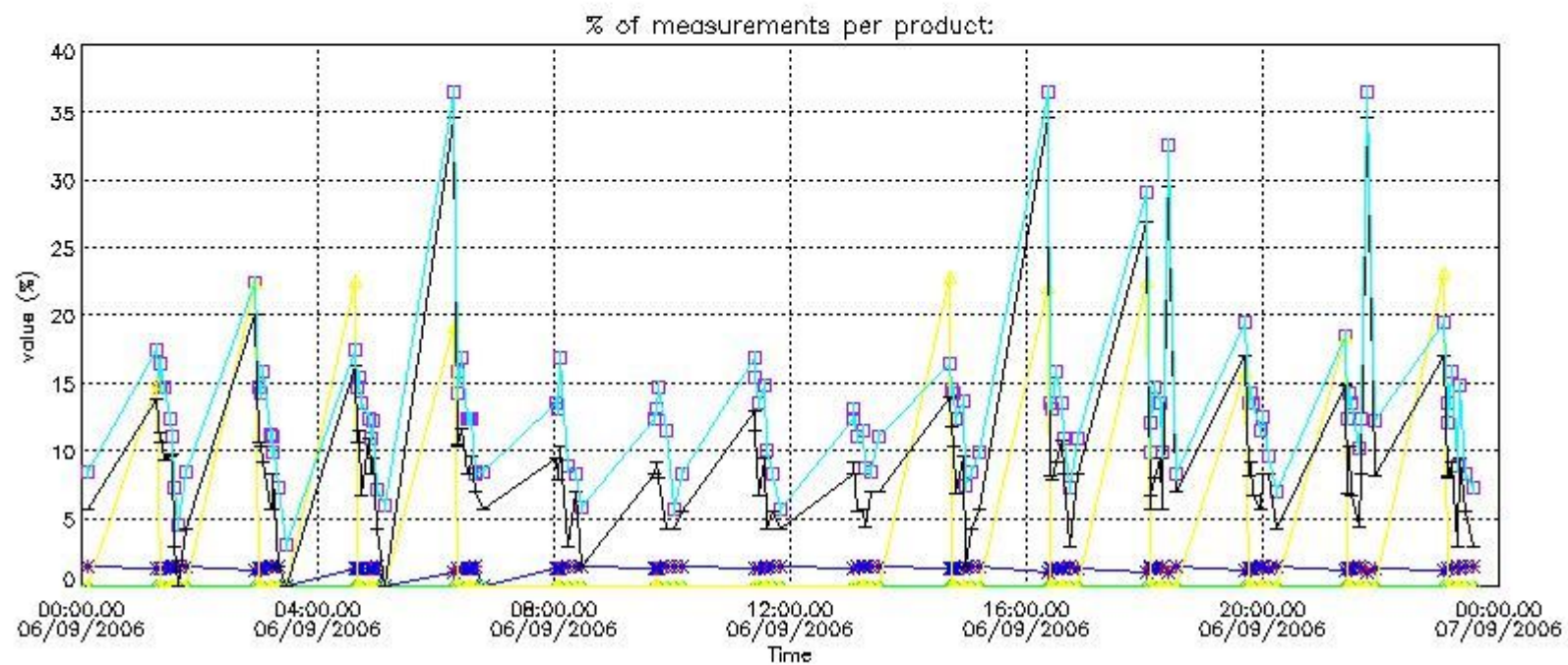
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

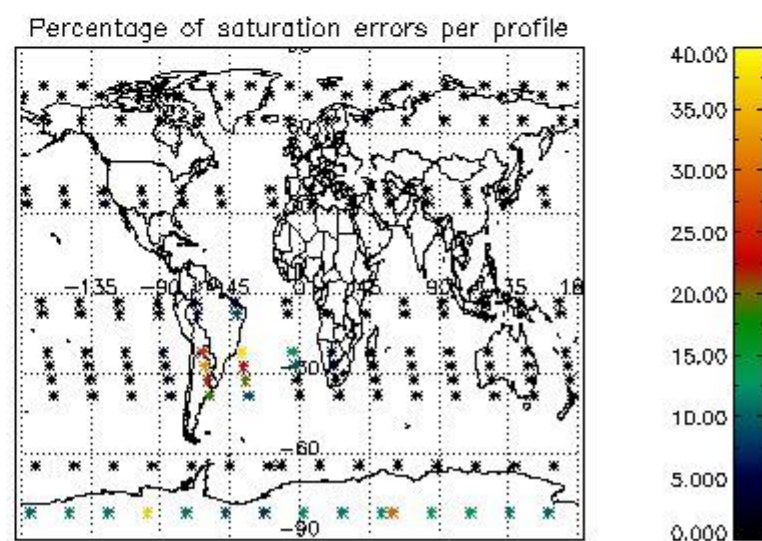
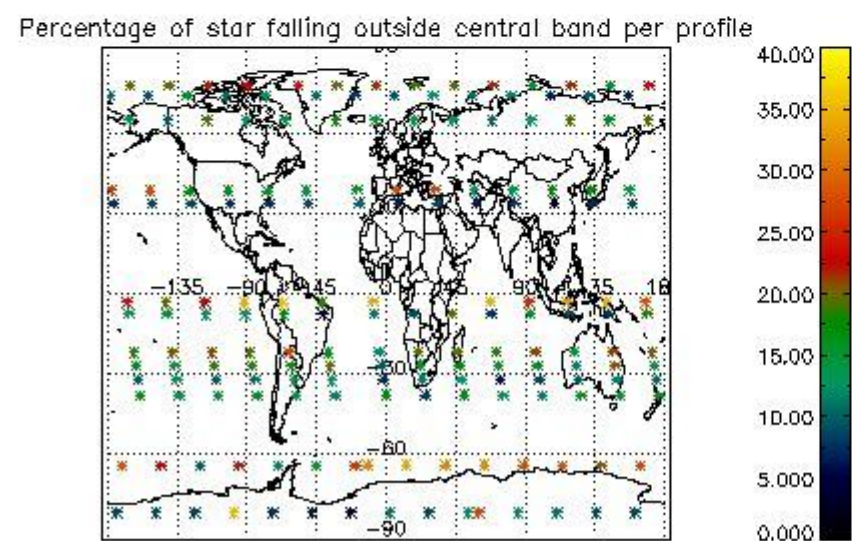
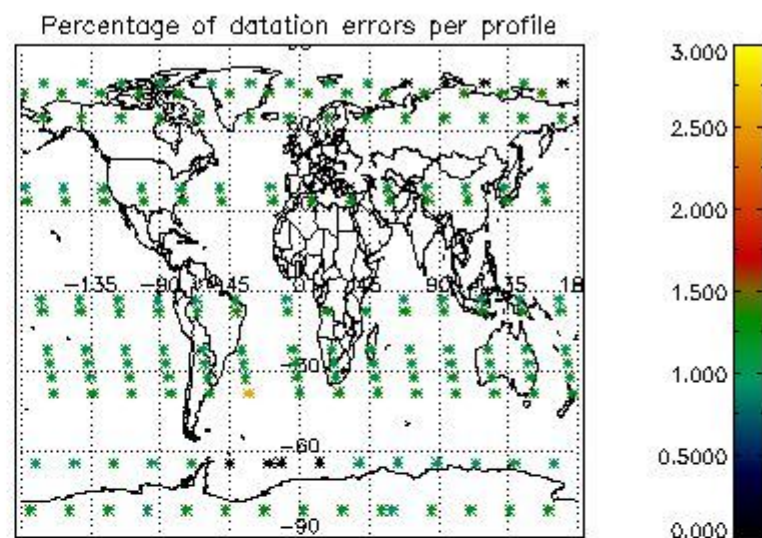
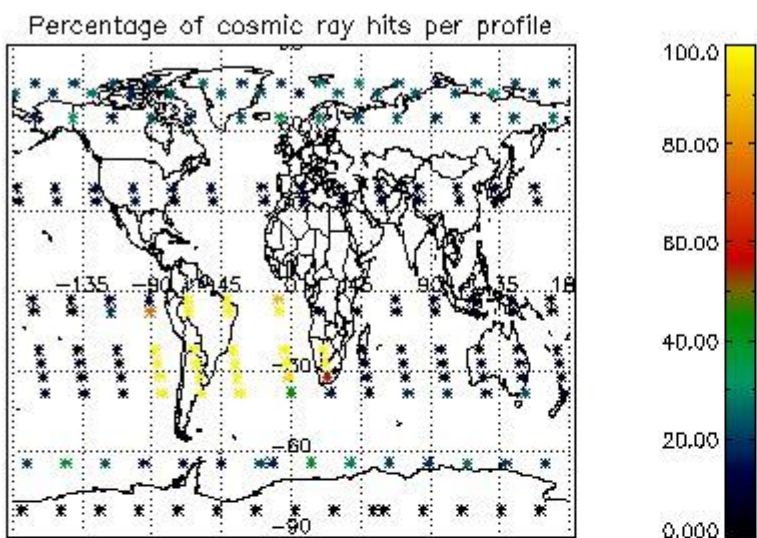


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

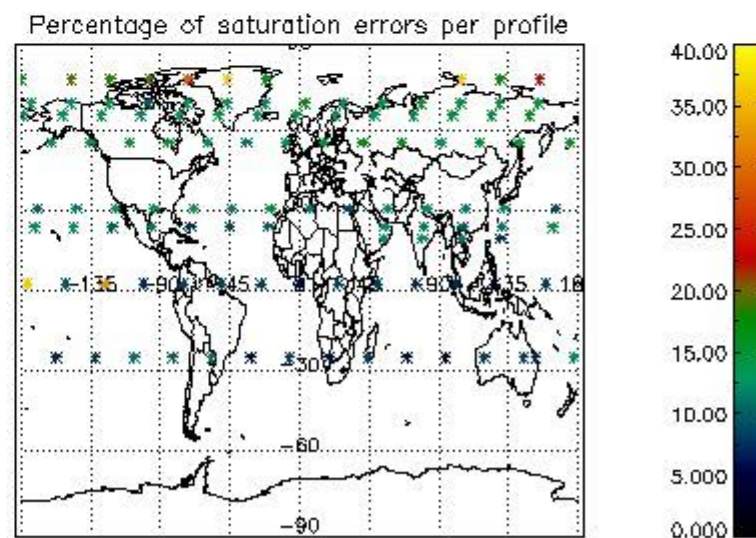
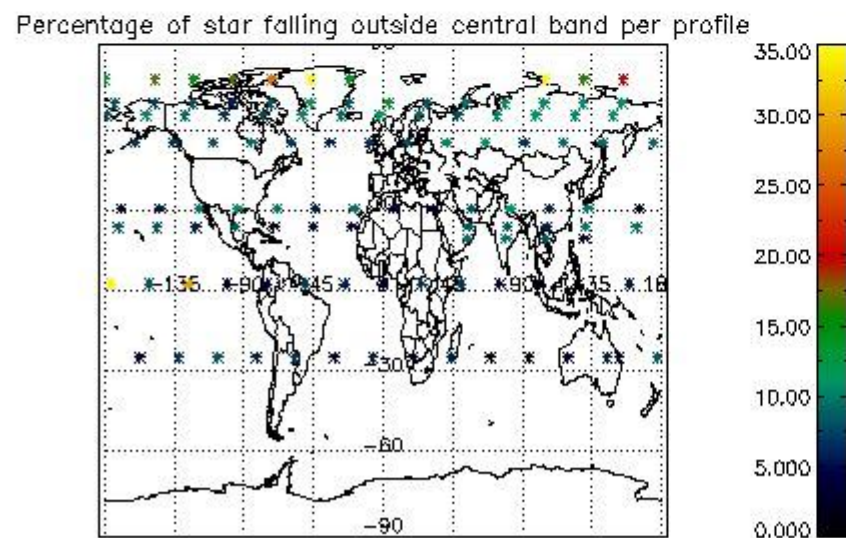
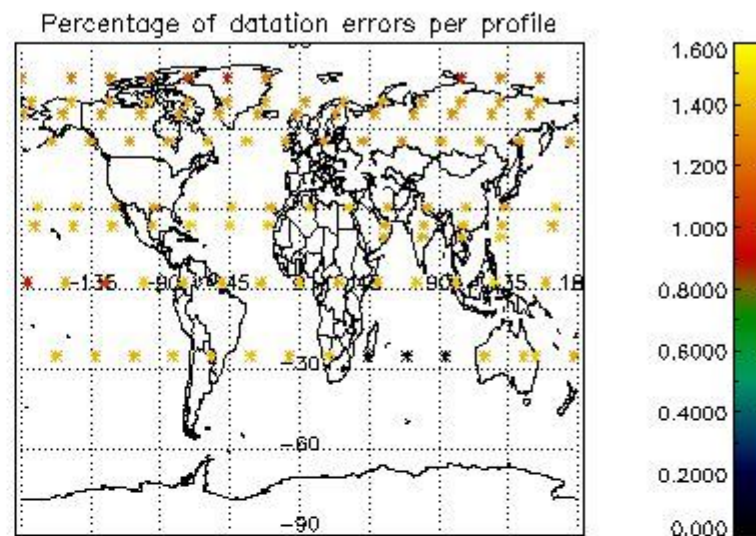
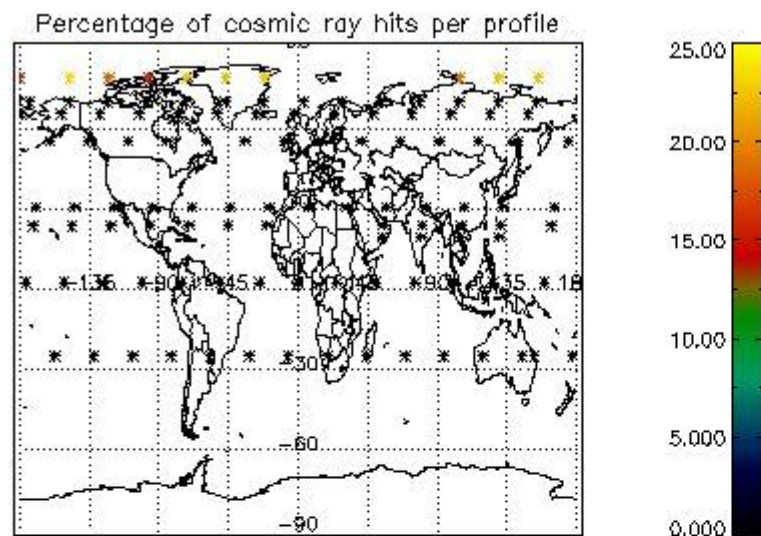


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

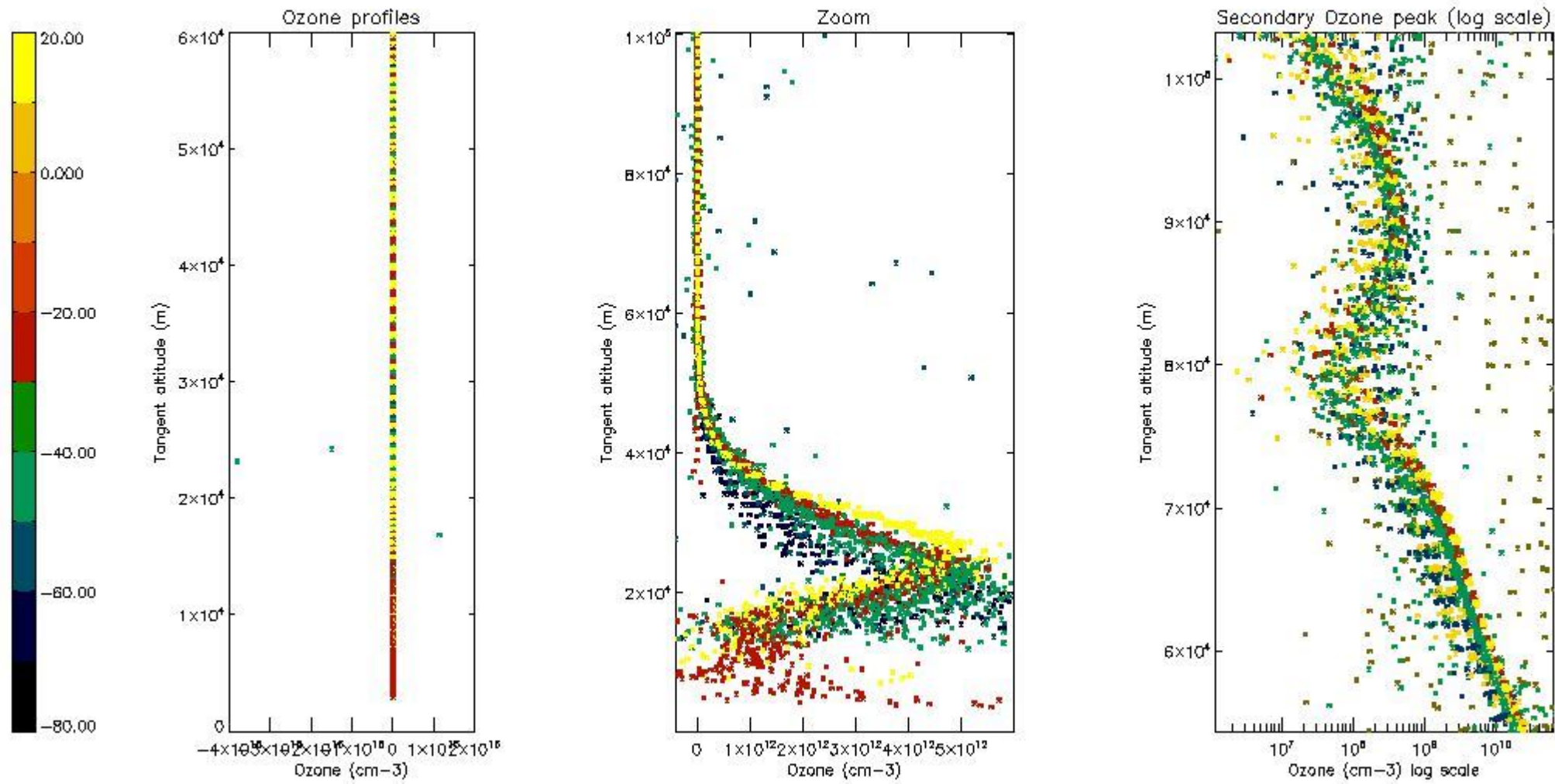
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	40
STD < 20	20

STD < 10	14
STD < 5	10

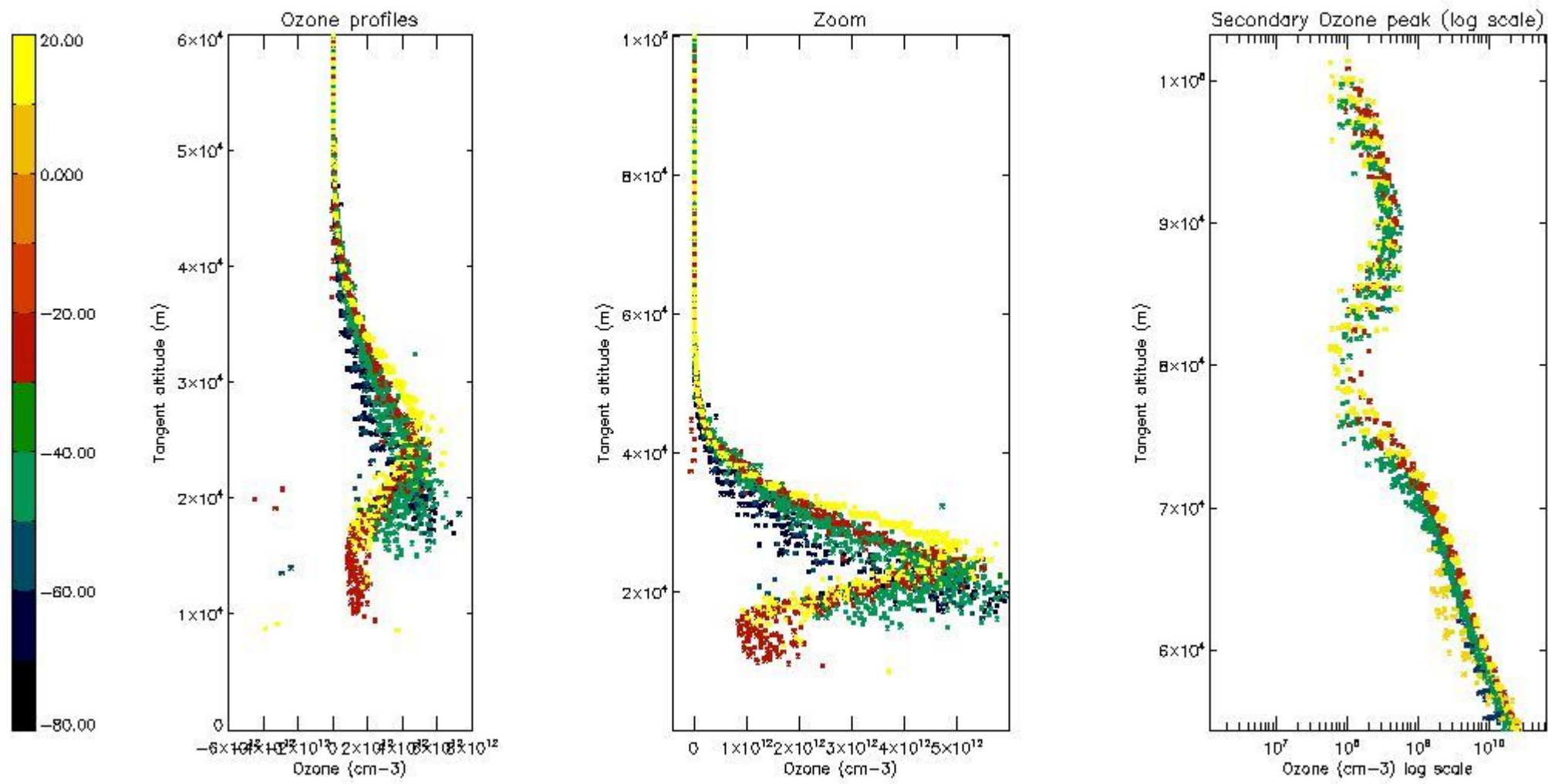
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



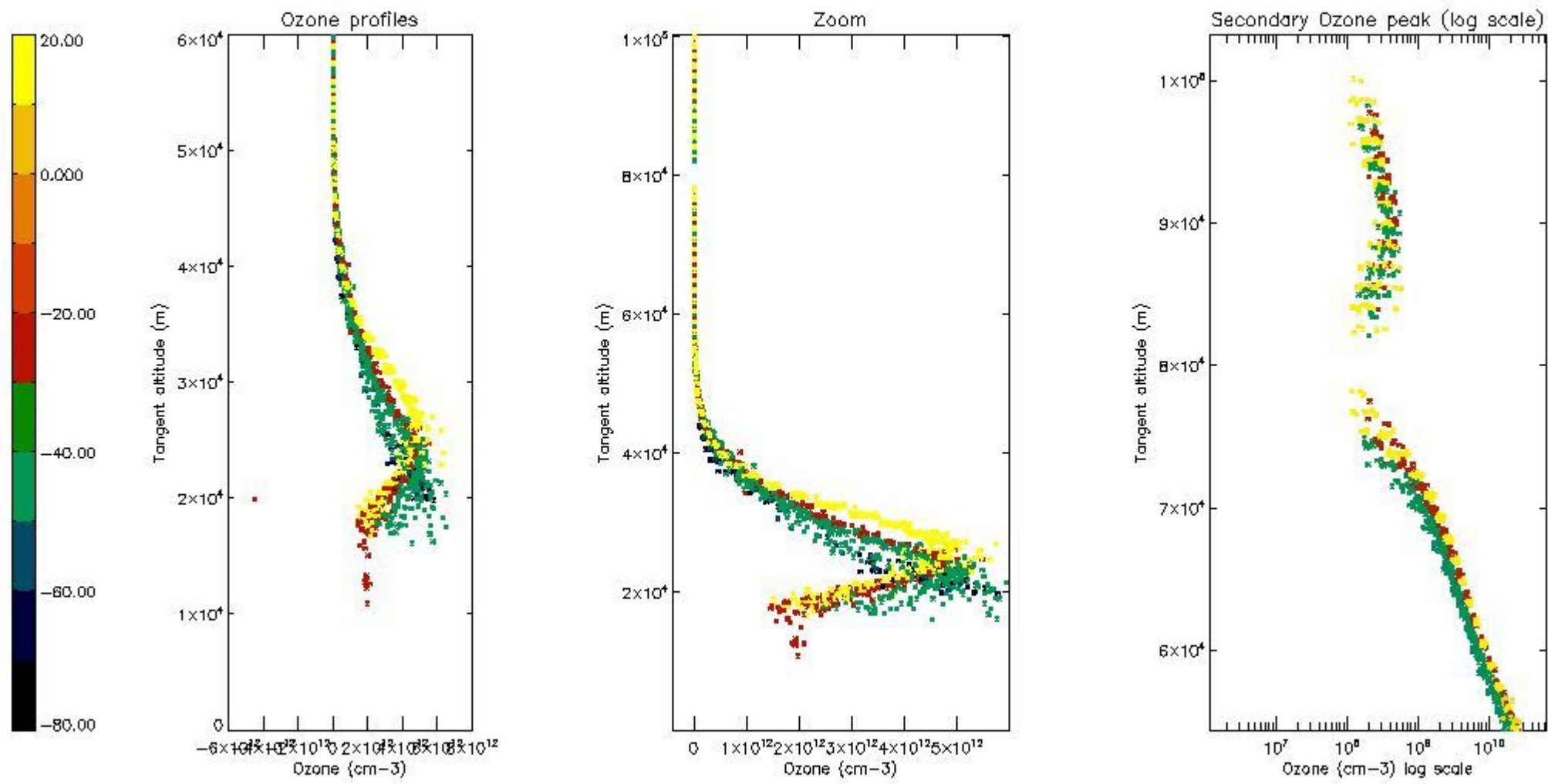
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



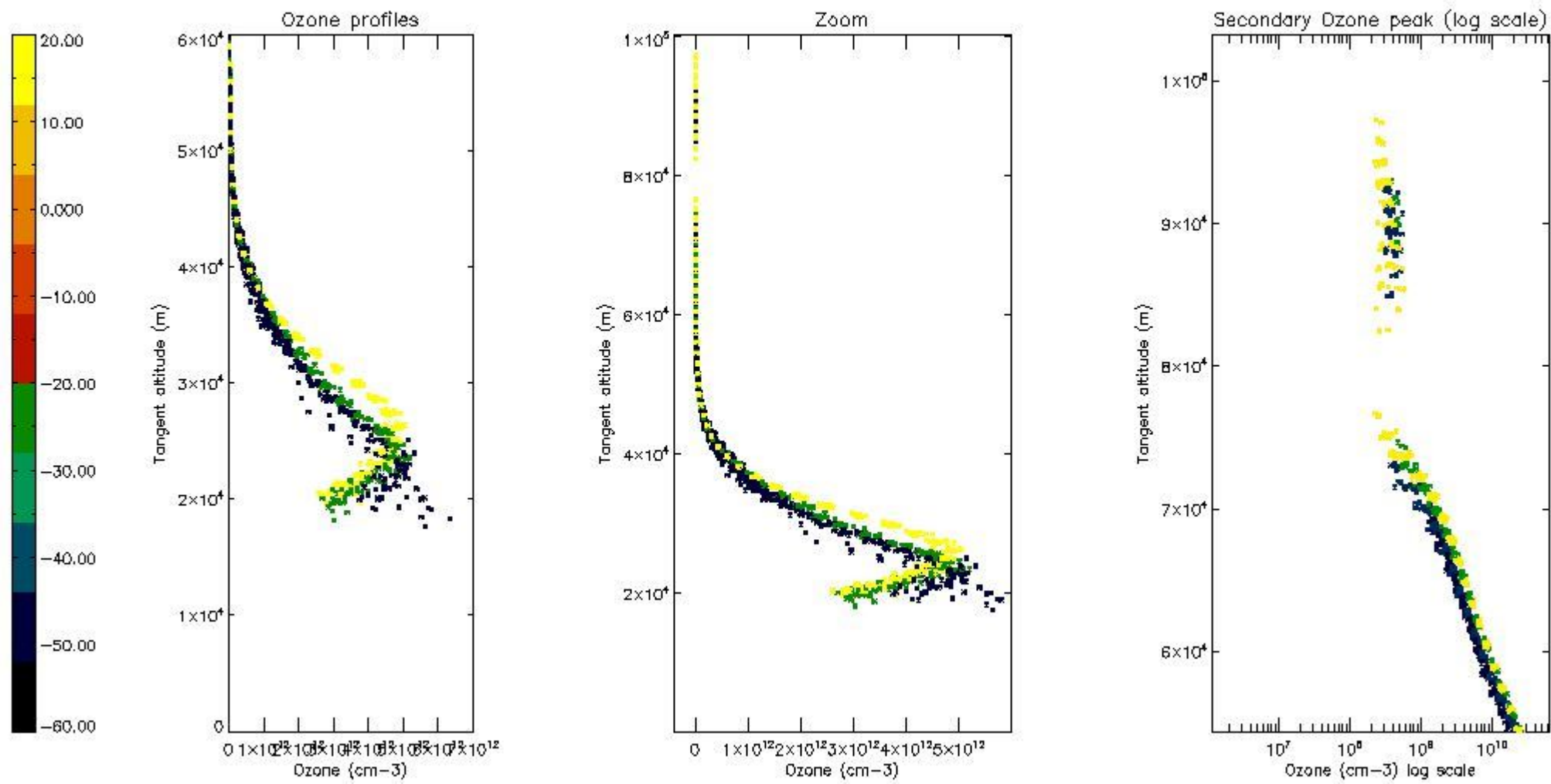
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



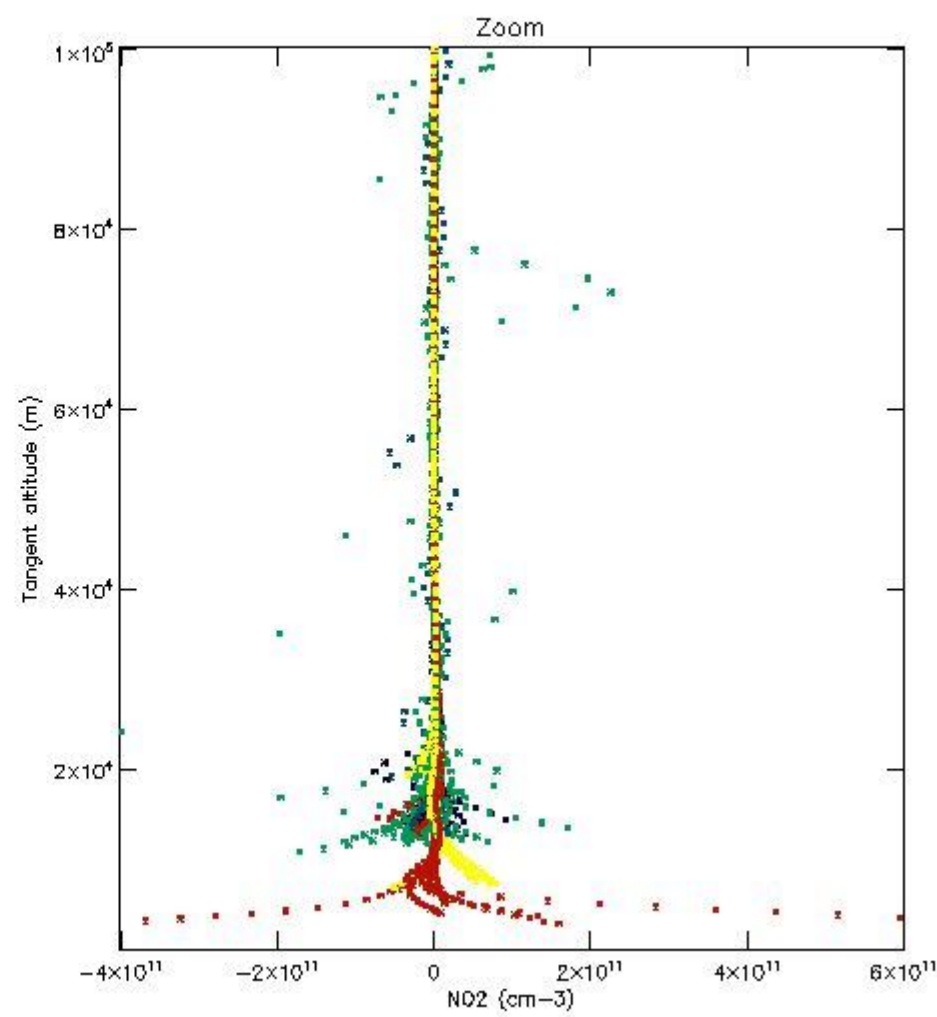
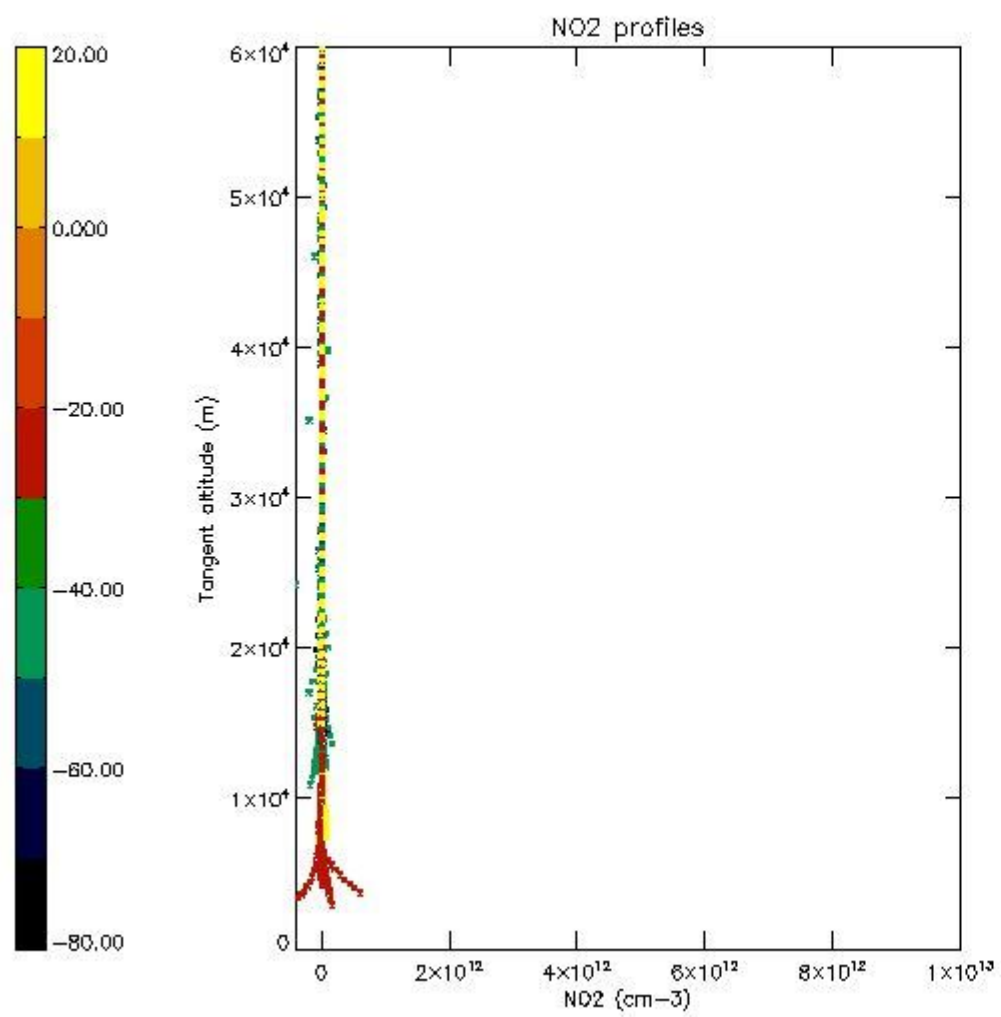
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



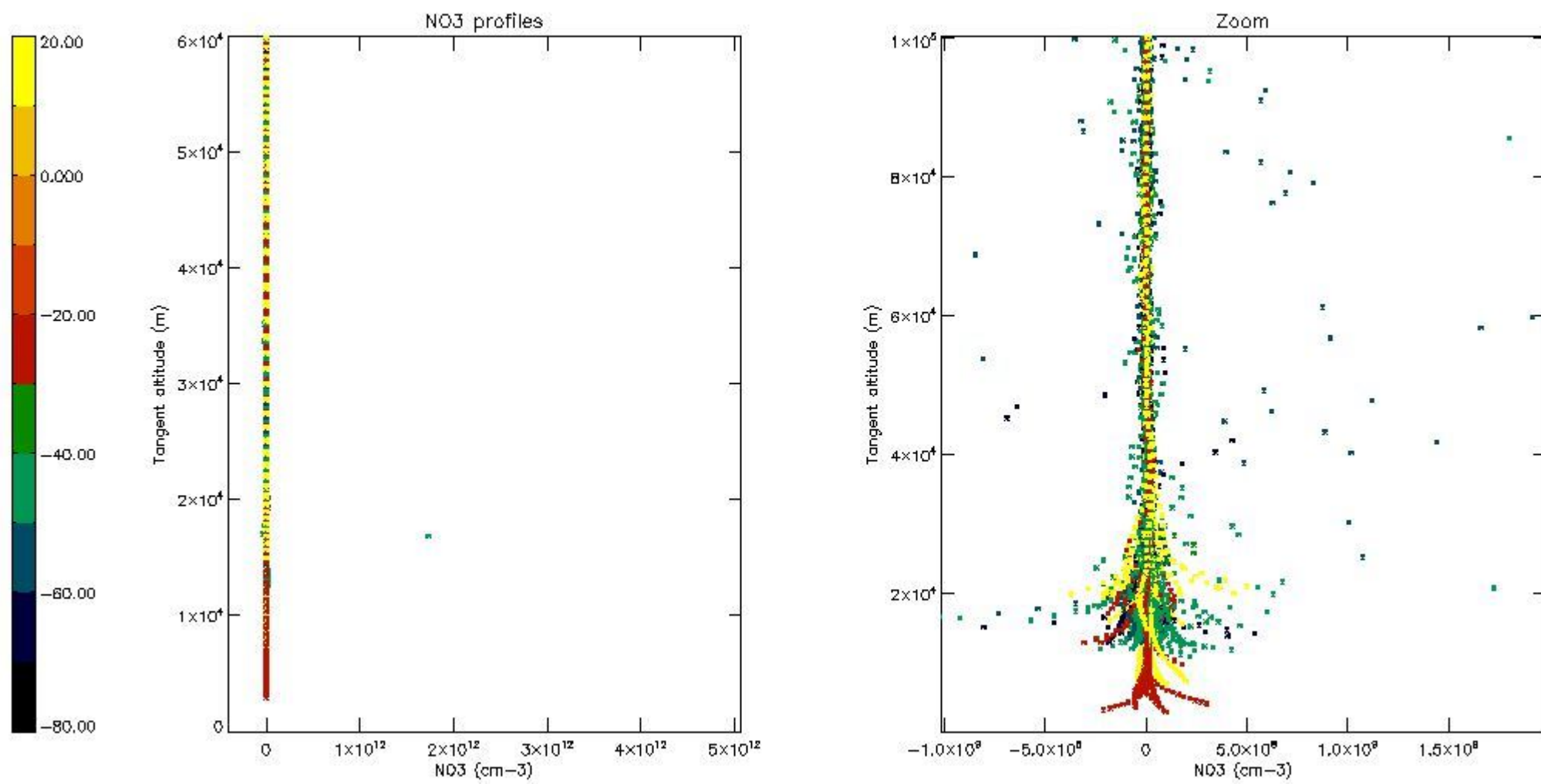
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



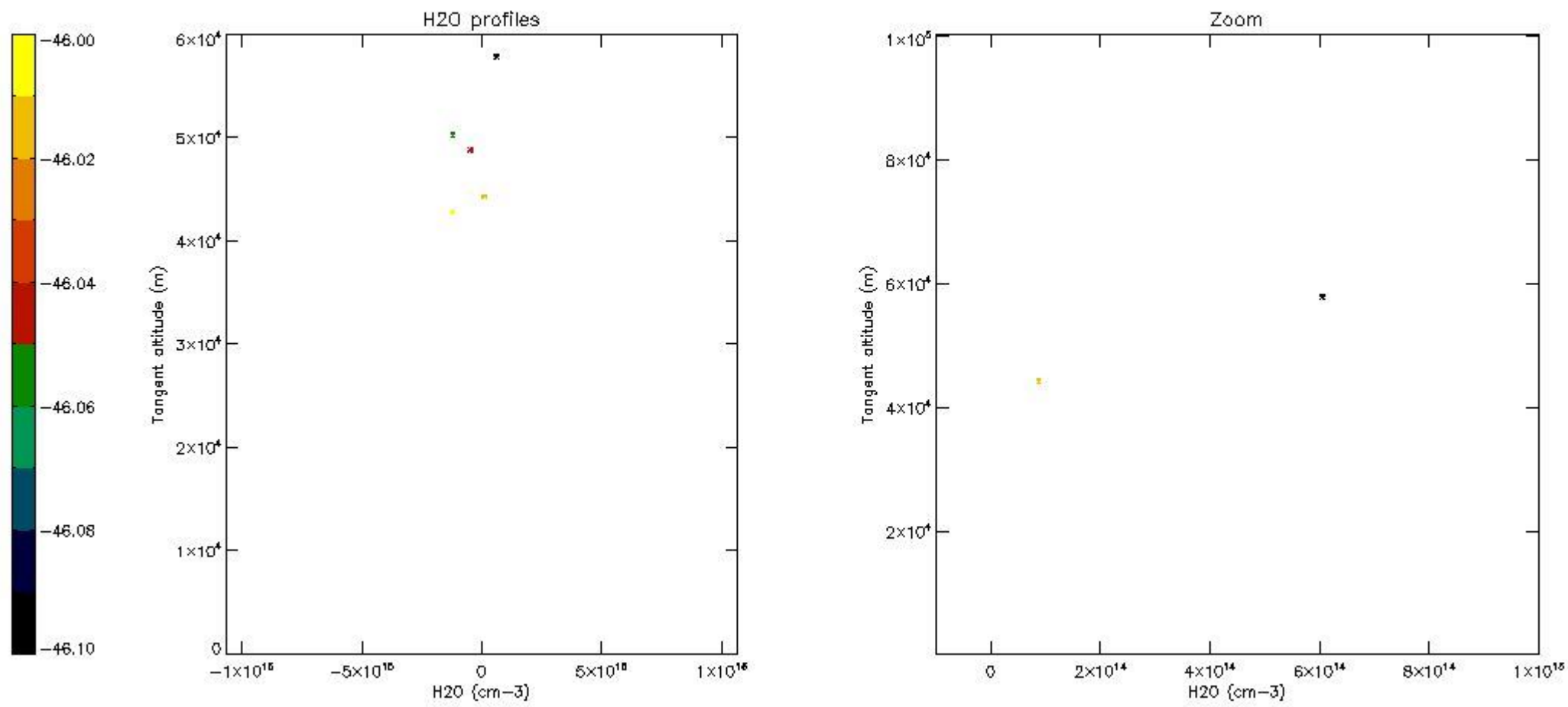
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	06-SEP-2006 00:05:49
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	06-SEP-2006 00:05:49
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	06-SEP-2006 00:05:49

GOMOS Level 2 Daily Report

SUMMARY

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

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

Item	Value
Time of report generation	24APR2013 04:01:25
Data source version	GOMOS/6.01
Start time of products	06-09-2006 (06SEP2006 00:00:00)
Stop time of products	07-09-2006 (07SEP2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	293
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

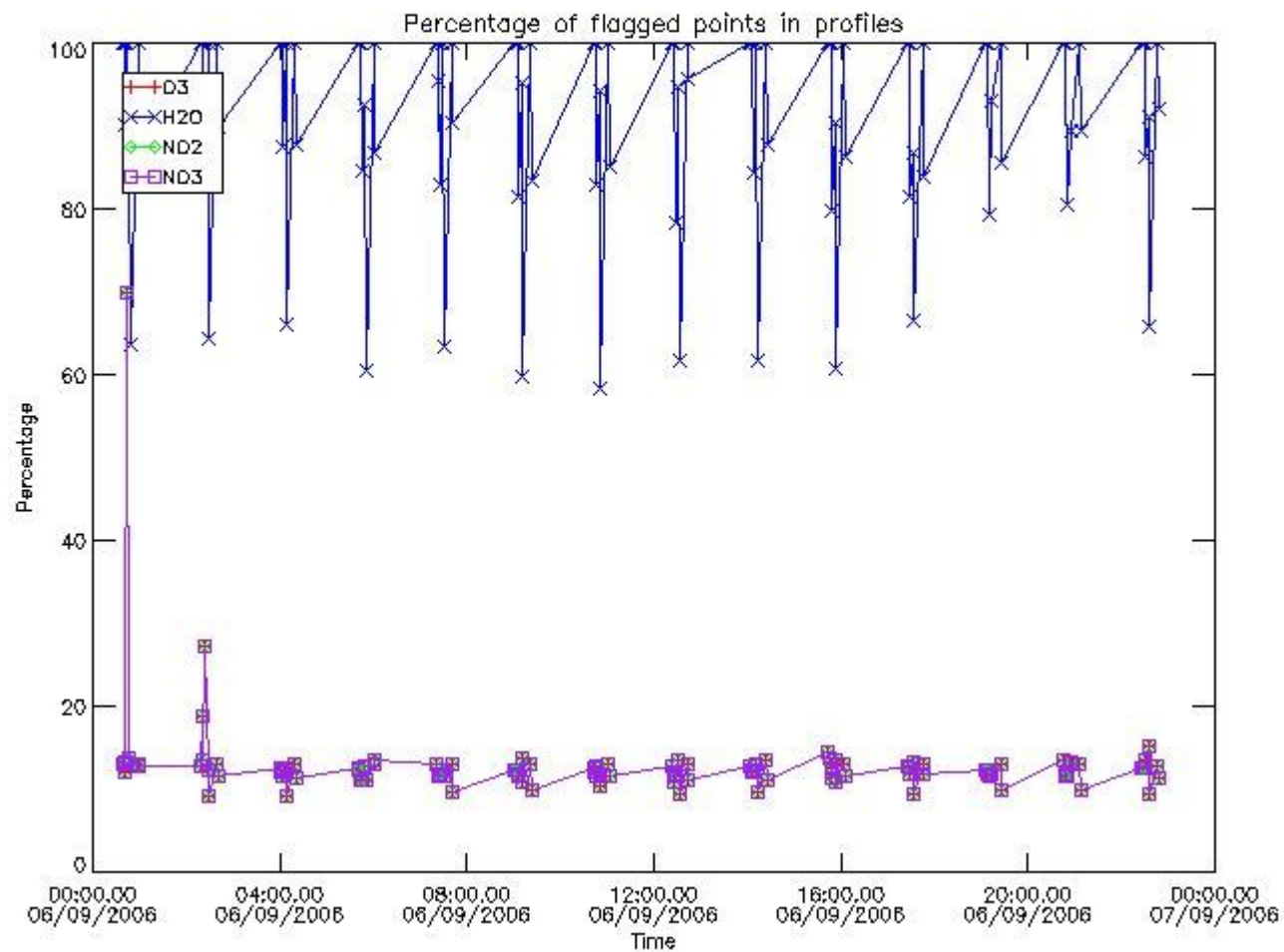
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060906_000549_000000362051_00016_23617_1785.N1	06-SEP-2006 00:05:49	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23617	No
2	GOM_NL__2PRFIN20060906_002402_000000412051_00016_23617_1786.N1	06-SEP-2006 00:24:02	Bright	40.500	17	78Bet Gem	1.1610	4500.0	81	23617	No
3	GOM_NL__2PRFIN20060906_003054_000000492051_00016_23617_1787.N1	06-SEP-2006 00:30:54	Twilight	49.000	8	10Alp CMi	0.40000	6500.0	98	23617	No
4	GOM_NL__2PRFIN20060906_003826_000000392051_00016_23617_1788.N1	06-SEP-2006 00:38:26	Dark	39.000	132	15Rho Pup	2.8030	6900.0	78	23617	No
5	GOM_NL__2PRFIN20060906_004005_000000432051_00016_23617_1789.N1	06-SEP-2006 00:40:05	Dark	42.500	179	24Omi2CMa	3.0320	24000.	85	23617	No
6	GOM_NL__2PRFIN20060906_004133_000000462051_00016_23617_1790.N1	06-SEP-2006 00:41:33	Dark	46.000	23	21Eps CMa	1.5020	26000.	92	23617	No
7	GOM_NL__2PRFIN20060906_004259_000000422051_00016_23617_1791.N1	06-SEP-2006 00:42:59	Dark	42.000	117	Pi Pup	2.7060	3800.0	84	23617	No
8	GOM_NL__2PRFIN20060906_004700_000000372051_00016_23617_1792.N1	06-SEP-2006 00:47:00	Dark	37.000	161	Tau Pup	2.9310	4500.0	74	23617	No
9	GOM_NL__2PRFIN20060906_004812_000000432051_00016_23617_1793.N1	06-SEP-2006 00:48:12	Dark	43.000	2	Alp Car	-0.73600	7000.0	86	23617	No
10	GOM_NL__2PRFIN20060906_005836_000000402051_00017_23618_1792.N1	06-SEP-2006 00:58:36	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	23618	No
11	GOM_NL__2PRFIN20060906_005956_000000442051_00017_23618_1793.N1	06-SEP-2006 00:59:56	Dark	44.000	9	Alp Eri	0.45300	24000.	88	23618	No
12	GOM_NL__2PRFIN20060906_010732_000000402051_00017_23618_1794.N1	06-SEP-2006 01:07:32	Straylight	40.000	31	Alp Gru	1.7340	15200.	80	23618	No
13	GOM_NL__2PRFIN20060906_011020_000000392051_00017_23618_1795.N1	06-SEP-2006 01:10:20	Straylight	39.000	172	Gam Gru	3.0030	13100.	78	23618	No
14	GOM_NL__2PRFIN20060906_011139_000000482051_00017_23618_1796.N1	06-SEP-2006 01:11:39	Straylight	48.000	18	24Alp PsA	1.1660	9700.0	96	23618	No
15	GOM_NL__2PRFIN20060906_011620_000000402051_00017_23618_1797.N1	06-SEP-2006 01:16:20	Bright	40.000	142	49Del Cap	2.8500	8900.0	80	23618	No
16	GOM_NL__2PRFIN20060906_011926_000000382051_00017_23618_1798.N1	06-SEP-2006 01:19:26	Bright	37.500	154	22Bet Aqr	2.8990	5700.0	75	23618	No
17	GOM_NL__2PRFIN20060906_012047_000000402051_00017_23618_1799.N1	06-SEP-2006 01:20:47	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	23618	No
18	GOM_NL__2PRFIN20060906_012346_000000382051_00017_23618_1800.N1	06-SEP-2006 01:23:46	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	23618	No
19	GOM_NL__2PRFIN20060906_013045_000000372051_00017_23618_1801.N1	06-SEP-2006 01:30:45	Bright	36.500	92	53Eps Cyg	2.5000	4500.0	73	23618	No
20	GOM_NL__2PRFIN20060906_013243_000000362051_00017_23618_1802.N1	06-SEP-2006 01:32:43	Bright	36.000	66	37Gam Cyg	2.2080	5900.0	72	23618	No
21	GOM_NL__2PRFIN20060906_013354_000000352051_00017_23618_1803.N1	06-SEP-2006 01:33:54	Bright	34.500	19	50Alp Cyg	1.2460	10500.	69	23618	No
22	GOM_NL__2PRFIN20060906_013842_000000342051_00017_23618_1804.N1	06-SEP-2006 01:38:42	Bright	33.500	89	5Alp Cep	2.4510	8000.0	67	23618	No
23	GOM_NL__2PRFIN20060906_014625_000000362051_00017_23618_1805.N1	06-SEP-2006 01:46:25	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23618	No
24	GOM_NL__2PRFIN20060906_020438_000000402051_00017_23618_1806.N1	06-SEP-2006 02:04:38	Bright	40.000	17	78Bet Gem	1.1610	4500.0	80	23618	No
25	GOM_NL__2PRFIN20060906_021130_000000432051_00017_23618_1807.N1	06-SEP-2006 02:11:30	Twilight	42.500	8	10Alp CMi	0.40000	6500.0	85	23618	No
26	GOM_NL__2PRFIN20060906_021903_000000402051_00017_23618_1808.N1	06-SEP-2006 02:19:03	Dark	40.000	132	15Rho Pup	2.8030	6900.0	80	23618	No
27	GOM_NL__2PRFIN20060906_022041_000000442051_00017_23618_1809.N1	06-SEP-2006 02:20:41	Dark	43.500	179	24Omi2CMa	3.0320	24000.	87	23618	No
28	GOM_NL__2PRFIN20060906_022210_000000452051_00017_23618_1810.N1	06-SEP-2006 02:22:10	Dark	45.000	23	21Eps CMa	1.5020	26000.	90	23618	No
29	GOM_NL__2PRFIN20060906_022335_000000492051_00017_23618_1811.N1	06-SEP-2006 02:23:35	Dark	48.500	117	Pi Pup	2.7060	3800.0	97	23618	No
30	GOM_NL__2PRFIN20060906_022736_000000422051_00017_23618_1812.N1	06-SEP-2006 02:27:36	Dark	41.500	161	Tau Pup	2.9310	4500.0	83	23618	No
31	GOM_NL__2PRFIN20060906_022849_000000552051_00017_23618_1813.N1	06-SEP-2006 02:28:49	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	23618	No
32	GOM_NL__2PRFIN20060906_023912_000000402051_00018_23619_1792.N1	06-SEP-2006 02:39:12	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	23619	No
33	GOM_NL__2PRFIN20060906_024033_000000452051_00018_23619_1793.N1	06-SEP-2006 02:40:33	Dark	44.500	9	Alp Eri	0.45300	24000.	89	23619	No
34	GOM_NL__2PRFIN20060906_024808_000000392051_00018_23619_1794.N1	06-SEP-2006 02:48:08	Straylight	39.000	31	Alp Gru	1.7340	15200.	78	23619	No
35	GOM_NL__2PRFIN20060906_025056_000000382051_00018_23619_1795.N1	06-SEP-2006 02:50:56	Straylight	37.500	172	Gam Gru	3.0030	13100.	75	23619	No
36	GOM_NL__2PRFIN20060906_025215_000000482051_00018_23619_1796.N1	06-SEP-2006 02:52:15	Straylight	47.500	18	24Alp PsA	1.1660	9700.0	95	23619	No
37	GOM_NL__2PRFIN20060906_025656_000000432051_00018_23619_1797.N1	06-SEP-2006 02:56:56	Bright	42.500	142	49Del Cap	2.8500	8900.0	85	23619	No
38	GOM_NL__2PRFIN20060906_030002_000000382051_00018_23619_1798.N1	06-SEP-2006 03:00:02	Bright	37.500	154	22Bet Aqr	2.8990	5700.0	75	23619	No
39	GOM_NL__2PRFIN20060906_030123_000000392051_00018_23619_1799.N1	06-SEP-2006 03:01:23	Bright	38.500	162	34Alp Aqr	2.9440	5350.0	77	23619	No
40	GOM_NL__2PRFIN20060906_030421_000000382051_00018_23619_1800.N1	06-SEP-2006 03:04:21	Bright	38.000	61	8Eps Peg	2.1000	3900.0	76	23619	No
41	GOM_NL__2PRFIN20060906_031121_000000362051_00018_23619_1801.N1	06-SEP-2006 03:11:21	Bright	35.500	92	53Eps Cyg	2.5000	4500.0	71	23619	No
42	GOM_NL__2PRFIN20060906_031319_000000362051_00018_23619_1802.N1	06-SEP-2006 03:13:19	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	23619	No

279	GOM_NL__2PRFIN20060906_224630_000000402051_00030_23631_1812.N1	06-SEP-2006 22:46:30	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	23631	No
280	GOM_NL__2PRFIN20060906_224751_000000452051_00030_23631_1813.N1	06-SEP-2006 22:47:51	Dark	45.000	9	Alp Eri	0.45300	24000.	90	23631	No
281	GOM_NL__2PRFIN20060906_225521_000000422051_00030_23631_1814.N1	06-SEP-2006 22:55:21	Straylight	41.500	31	Alp Gru	1.7340	15200.	83	23631	No
282	GOM_NL__2PRFIN20060906_225810_000000382051_00030_23631_1815.N1	06-SEP-2006 22:58:10	Straylight	38.000	172	Gam Gru	3.0030	13100.	76	23631	No
283	GOM_NL__2PRFIN20060906_225929_000000482051_00030_23631_1816.N1	06-SEP-2006 22:59:29	Straylight	48.000	18	24Alp PsA	1.1660	9700.0	96	23631	No
284	GOM_NL__2PRFIN20060906_230409_000000412051_00030_23631_1817.N1	06-SEP-2006 23:04:09	Bright	41.000	142	49Del Cap	2.8500	8900.0	82	23631	No
285	GOM_NL__2PRFIN20060906_230714_000000372051_00030_23631_1818.N1	06-SEP-2006 23:07:14	Bright	37.000	154	22Bet Aqr	2.8990	5700.0	74	23631	No
286	GOM_NL__2PRFIN20060906_230834_000000382051_00030_23631_1819.N1	06-SEP-2006 23:08:34	Bright	37.500	162	34Alp Aqr	2.9440	5350.0	75	23631	No
287	GOM_NL__2PRFIN20060906_231133_000000382051_00030_23631_1820.N1	06-SEP-2006 23:11:33	Bright	38.000	61	8Eps Peg	2.1000	3900.0	76	23631	No
288	GOM_NL__2PRFIN20060906_231834_000000342051_00030_23631_1821.N1	06-SEP-2006 23:18:34	Bright	34.000	92	53Eps Cyg	2.5000	4500.0	68	23631	No
289	GOM_NL__2PRFIN20060906_232032_000000372051_00030_23631_1822.N1	06-SEP-2006 23:20:32	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	23631	No
290	GOM_NL__2PRFIN20060906_232628_000000362051_00030_23631_1823.N1	06-SEP-2006 23:26:28	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	23631	No
291	GOM_NL__2PRFIN20060906_233411_000000352051_00030_23631_1824.N1	06-SEP-2006 23:34:11	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	23631	No
292	GOM_NL__2PRFIN20060906_235227_000000512051_00030_23631_1825.N1	06-SEP-2006 23:52:27	Bright	51.000	17	78Bet Gem	1.1610	4500.0	102	23631	No
293	GOM_NL__2PRFIN20060906_235921_000000542051_00030_23631_1826.N1	06-SEP-2006 23:59:21	Twilight	53.500	8	10Alp CMi	0.40000	6500.0	107	23631	No

3. Quality information per product

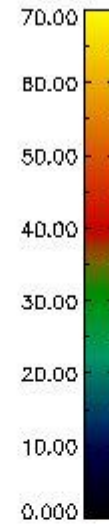
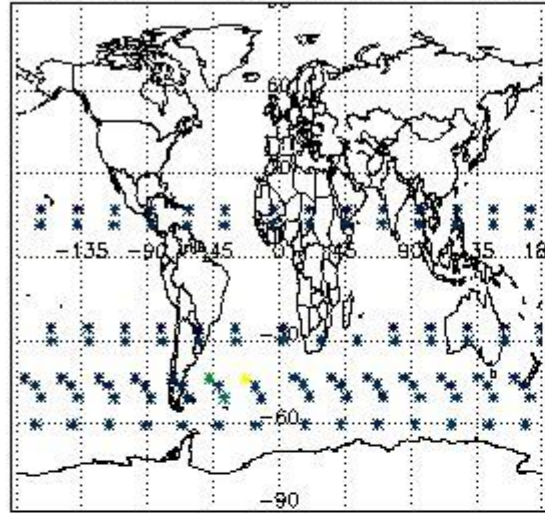
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

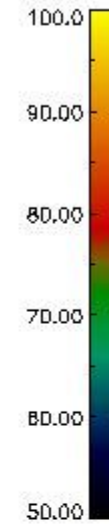
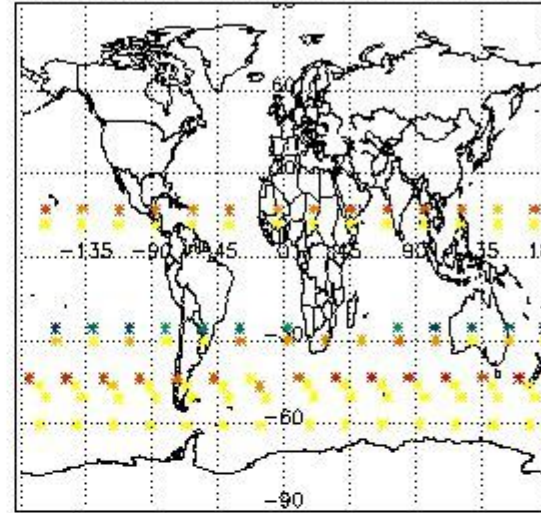


3.2 Plot quality information per product (world map)

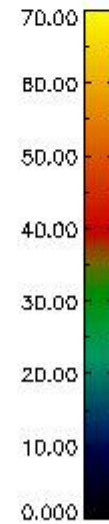
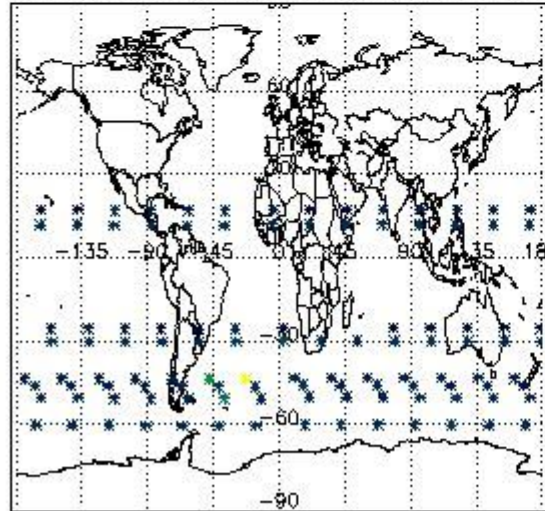
Percentage of flagged data per O3 profile



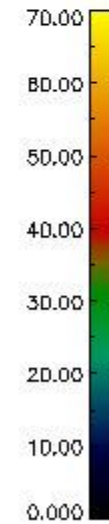
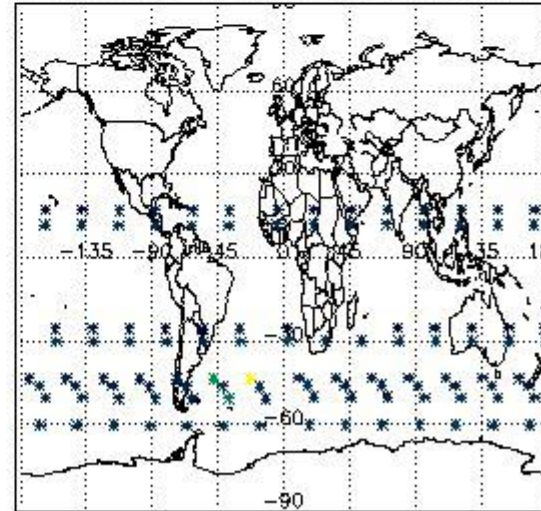
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

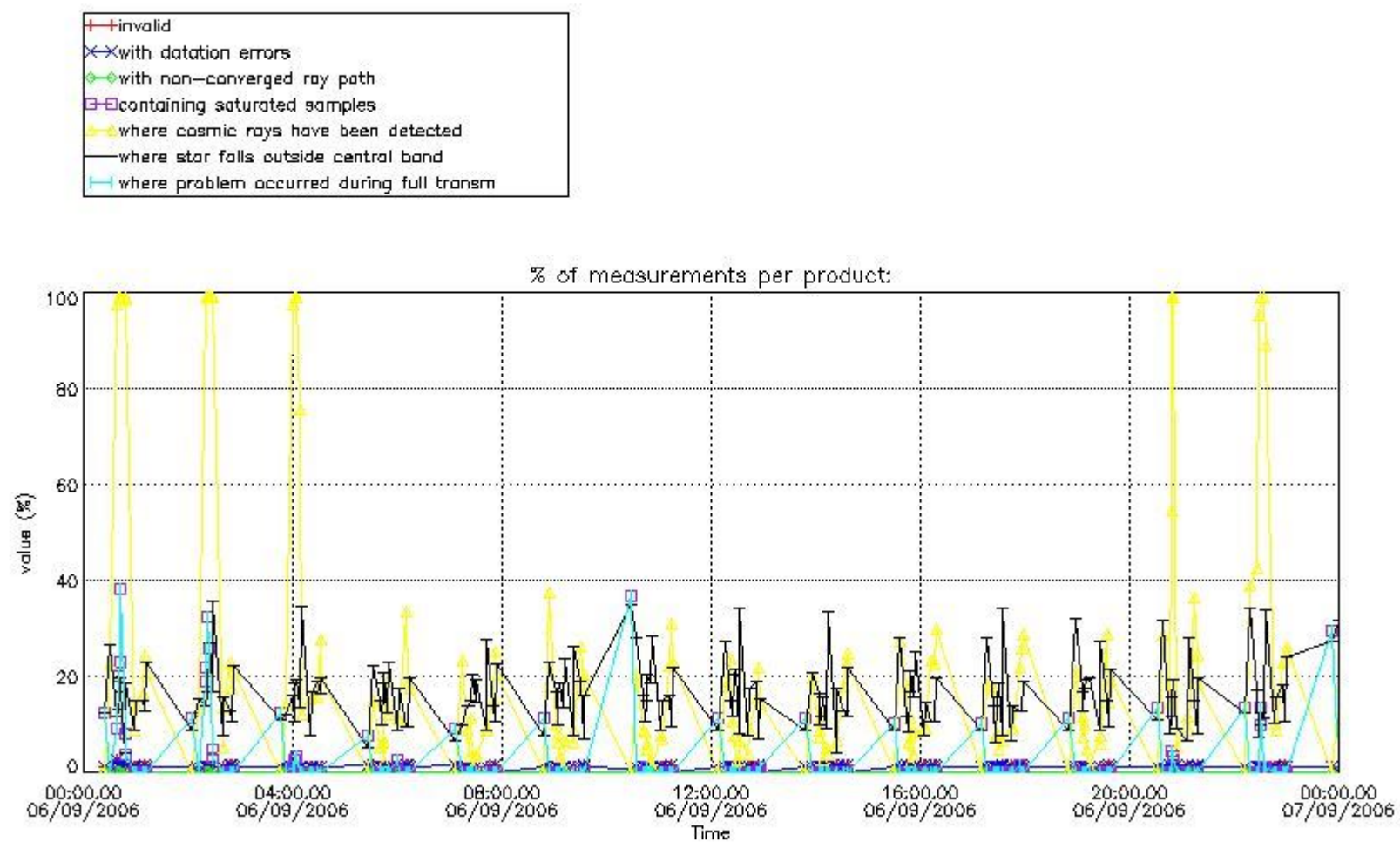


4. Level 1 quality information per product

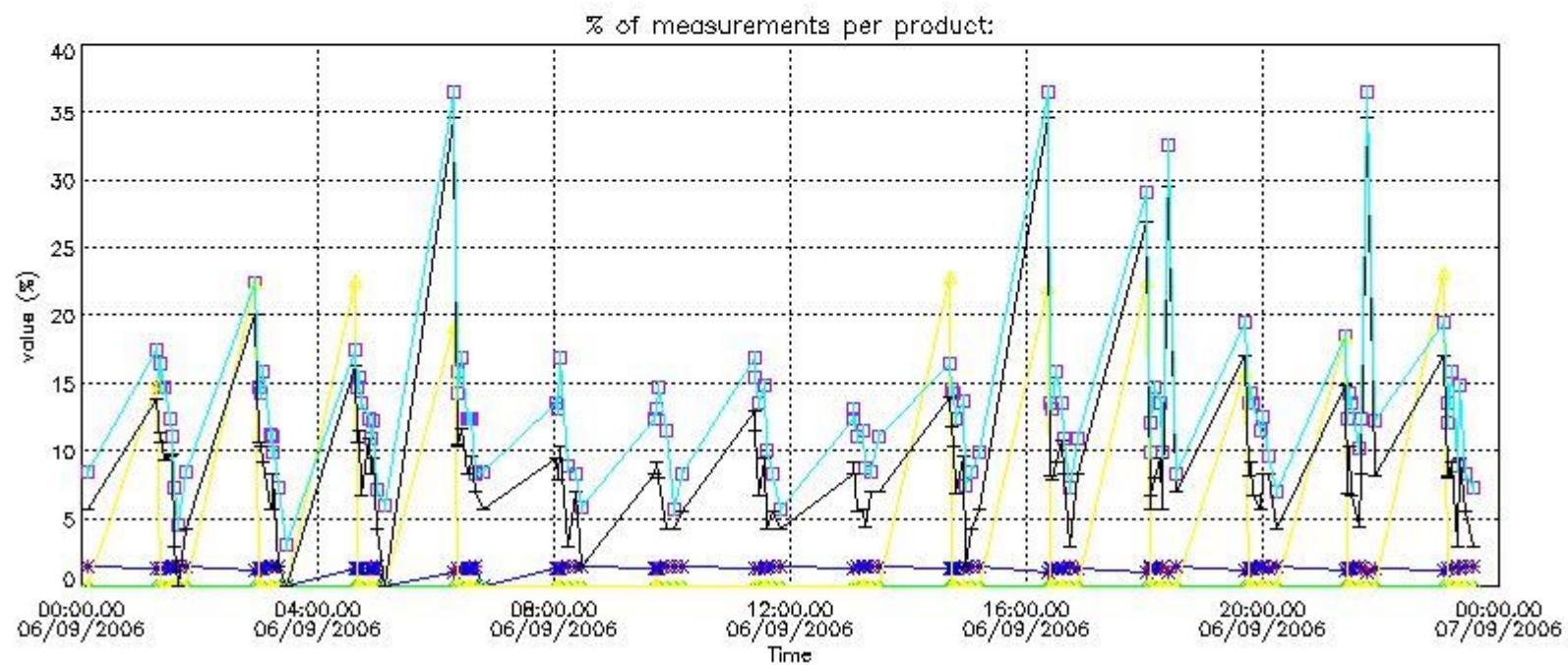
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

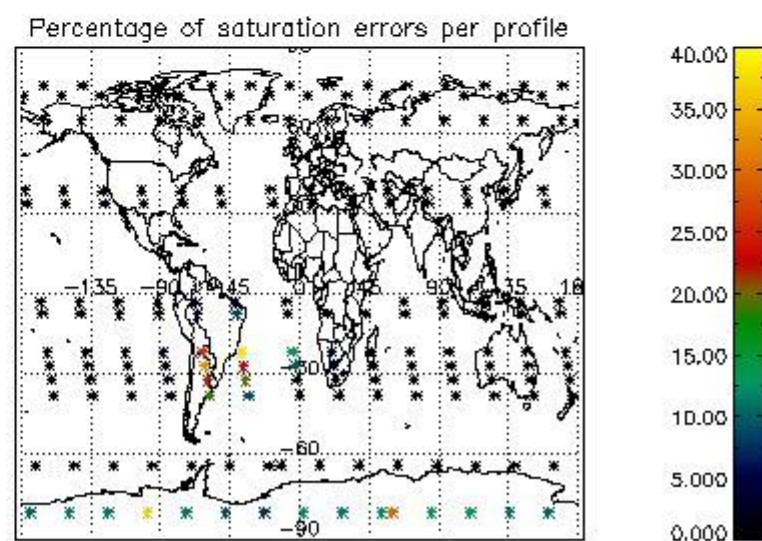
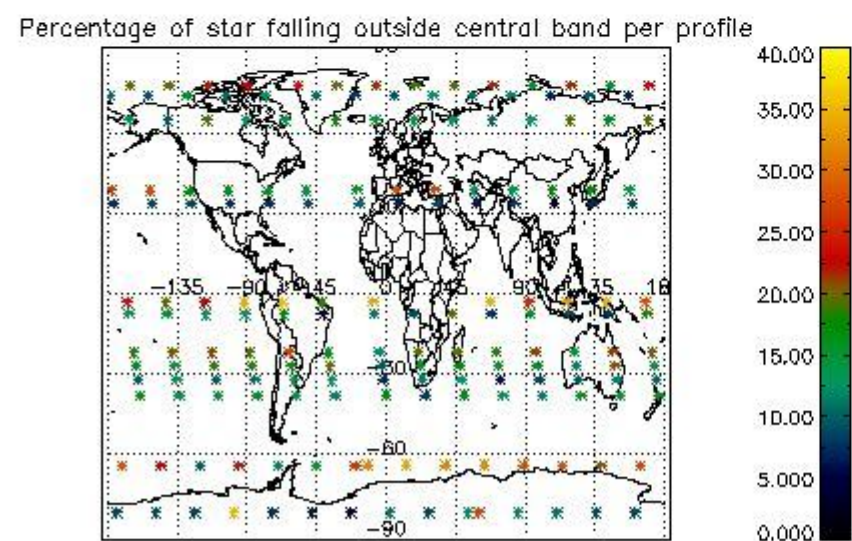
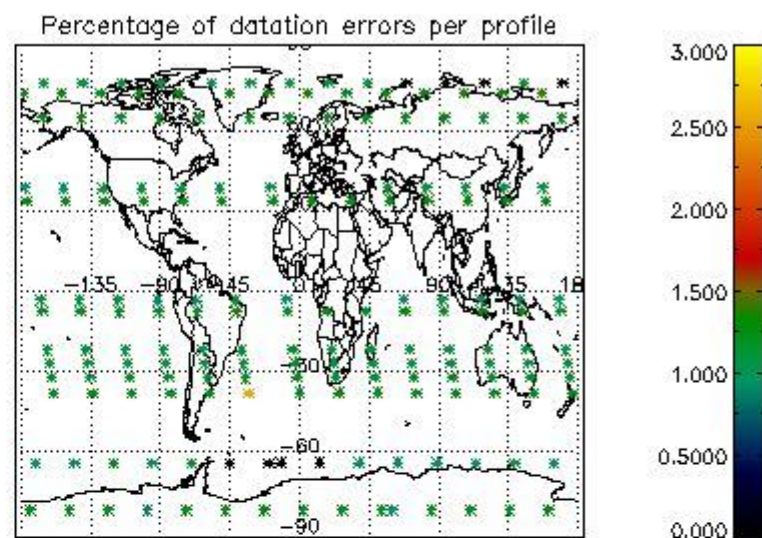
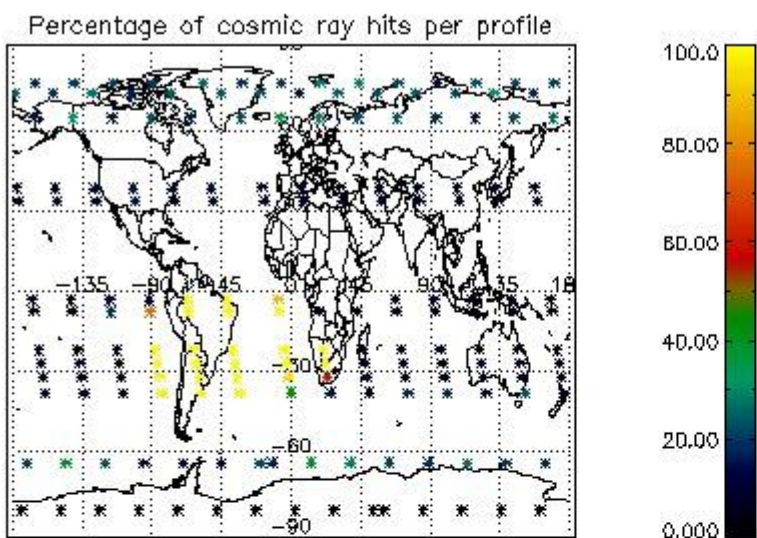


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

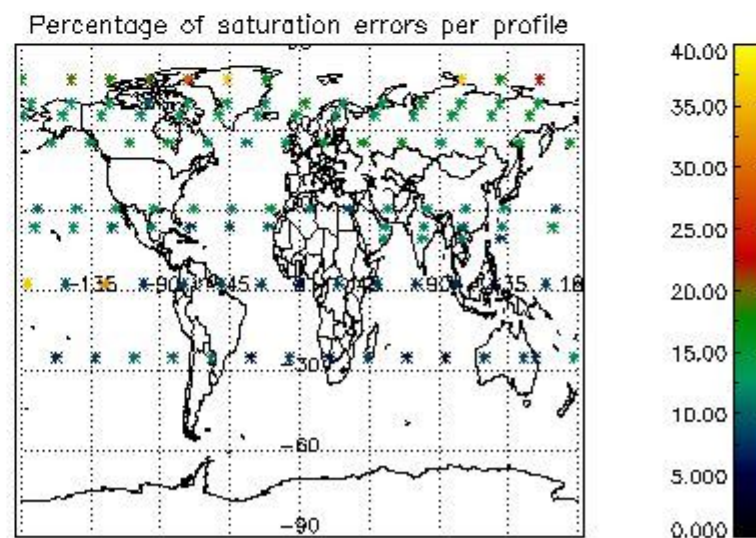
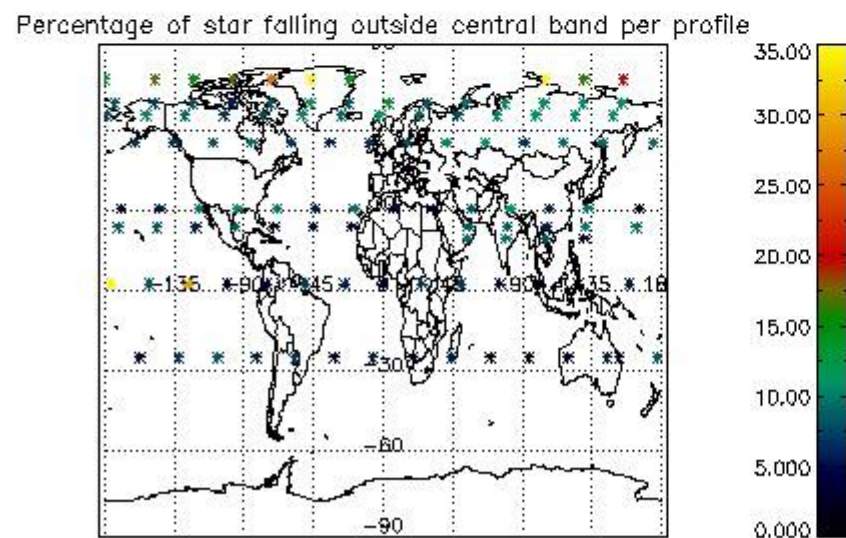
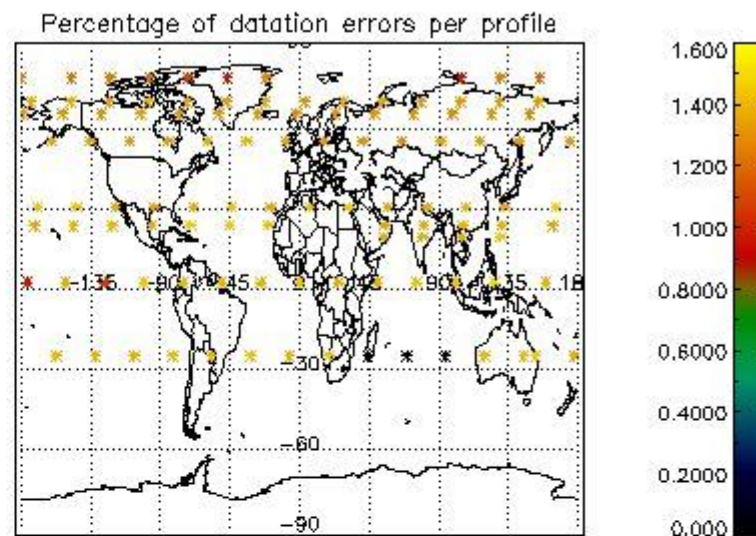
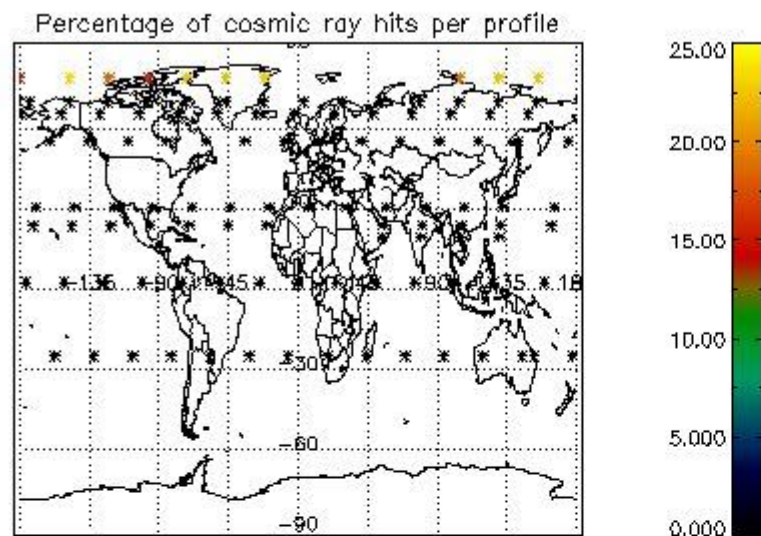


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

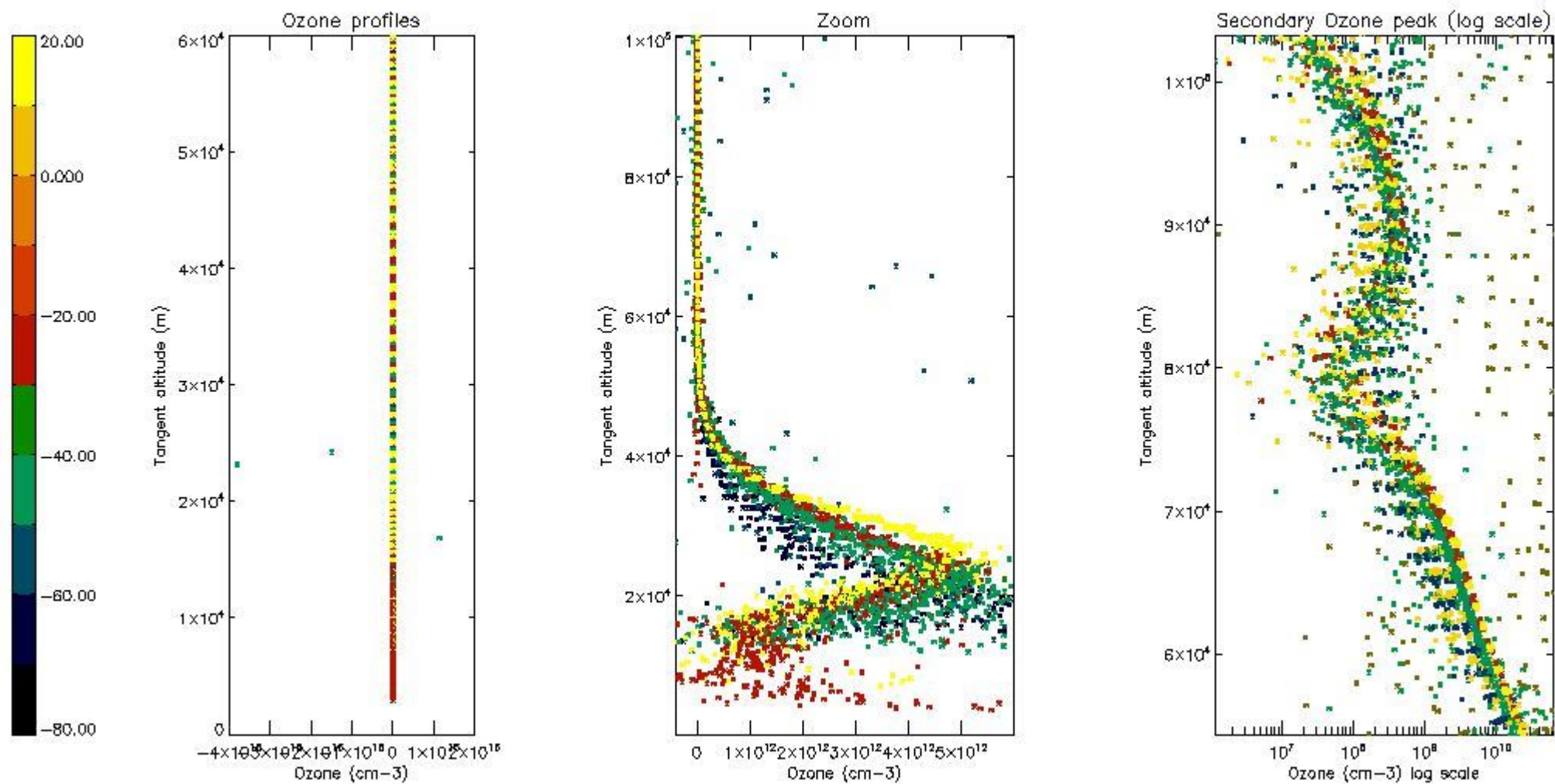
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	40
STD < 20	20

STD < 10	14
STD < 5	10

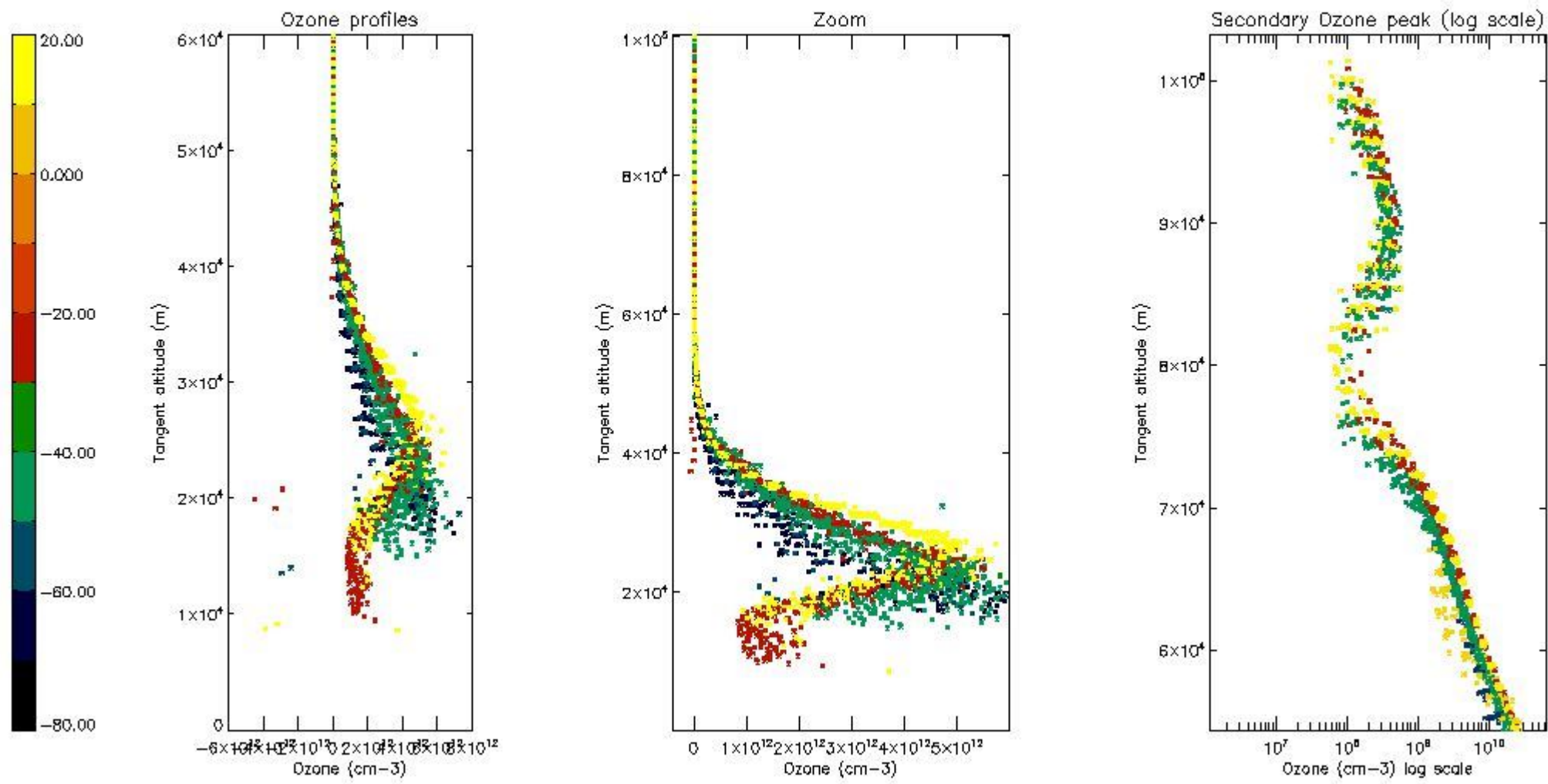
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



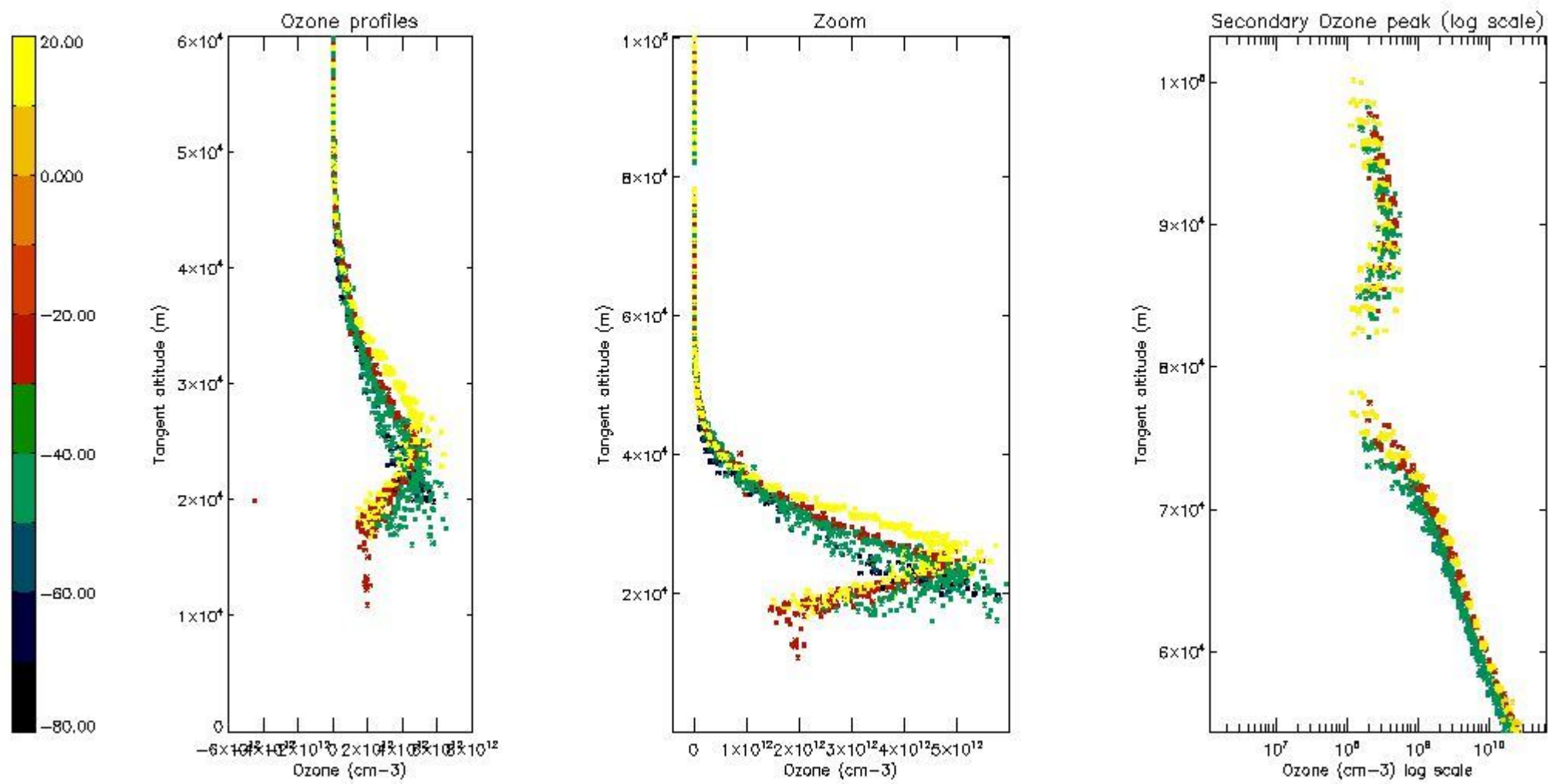
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



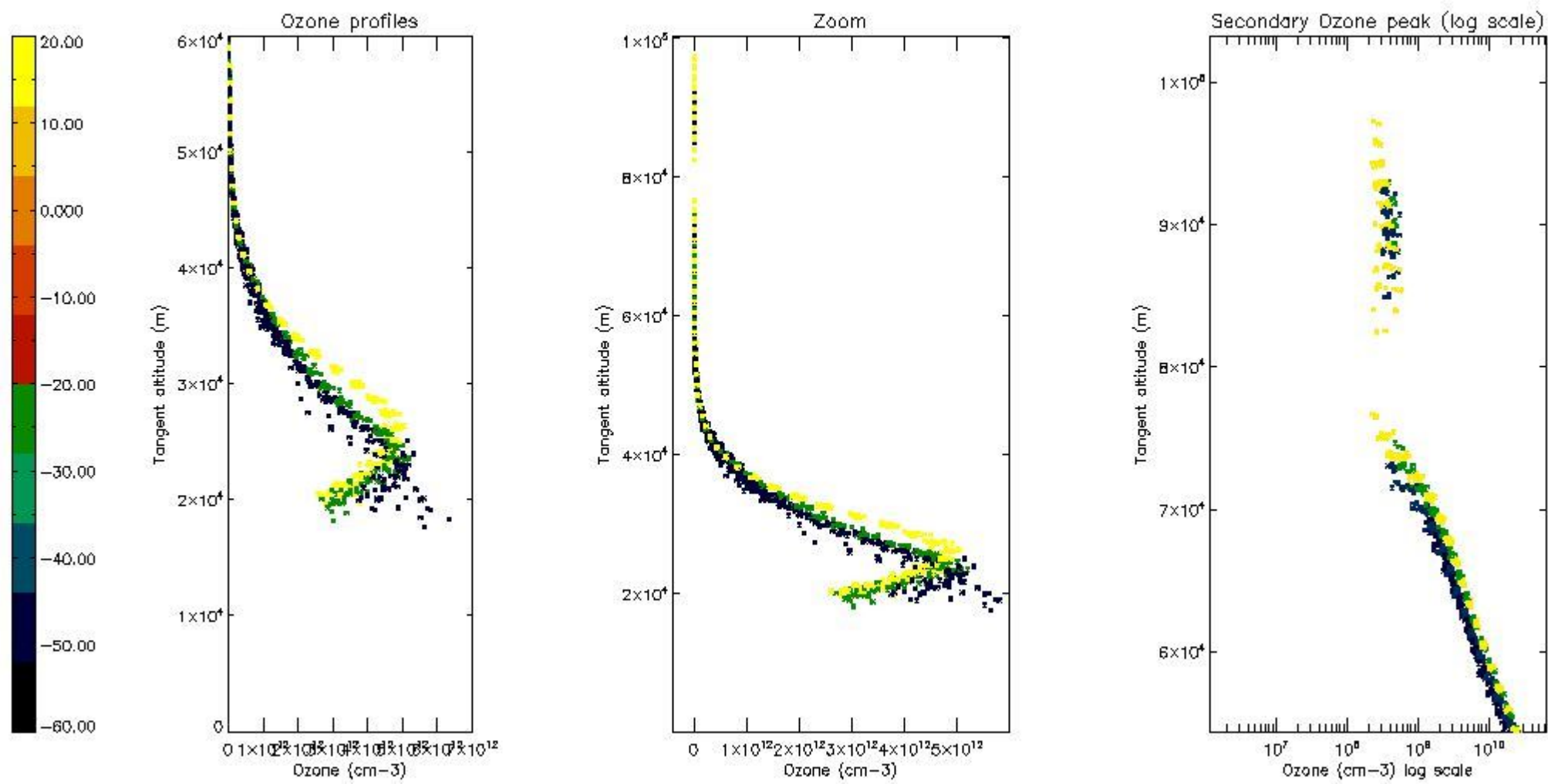
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



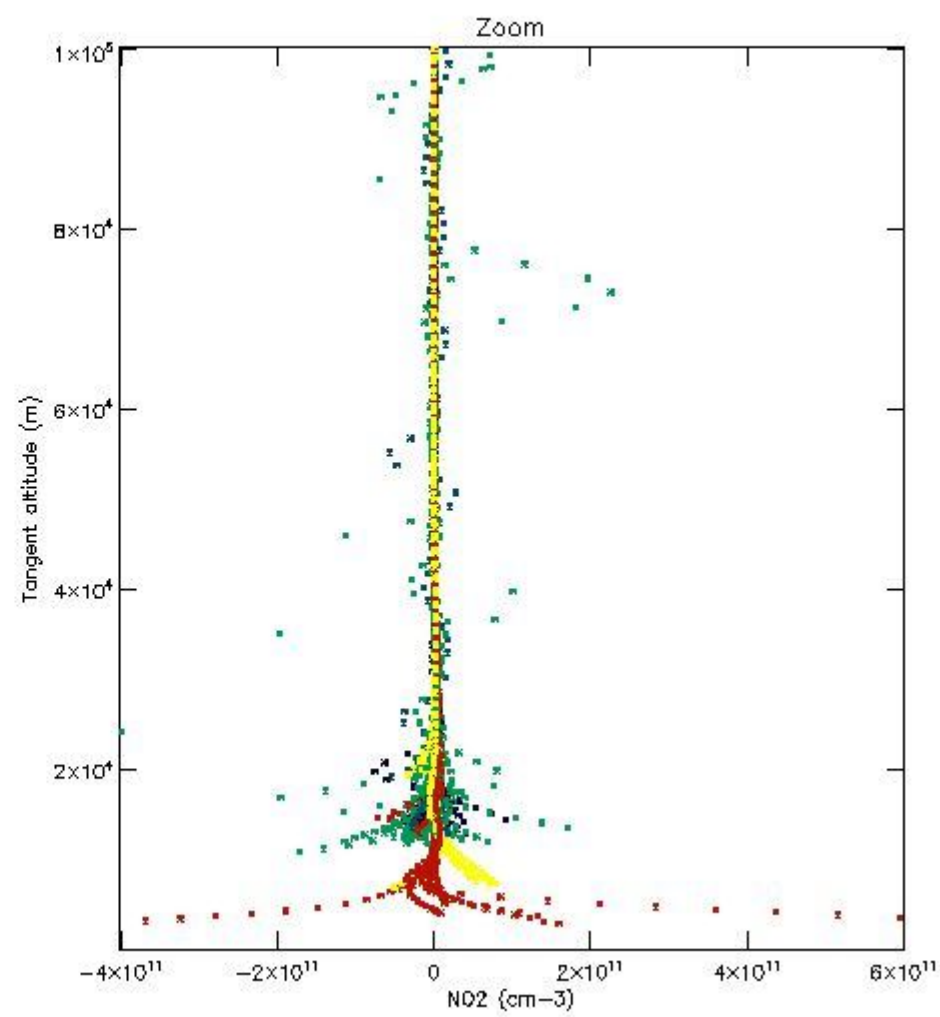
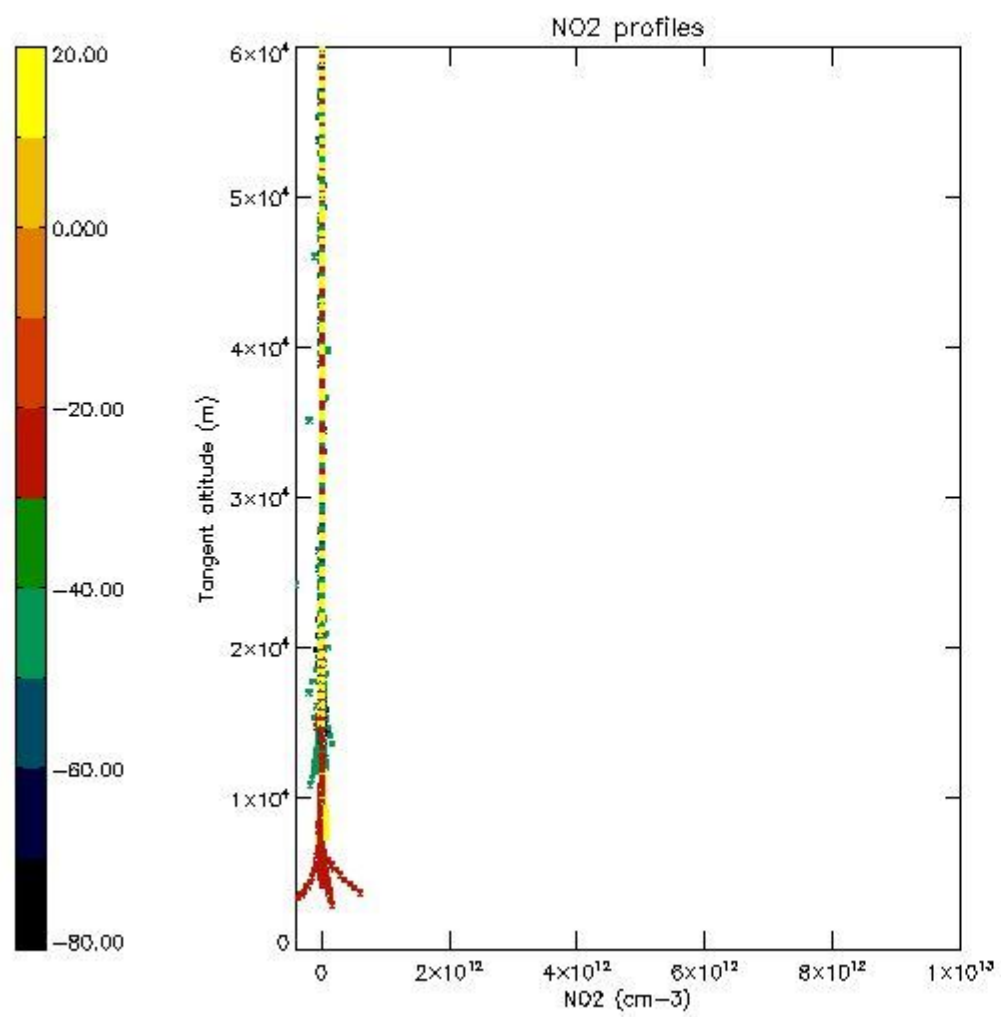
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



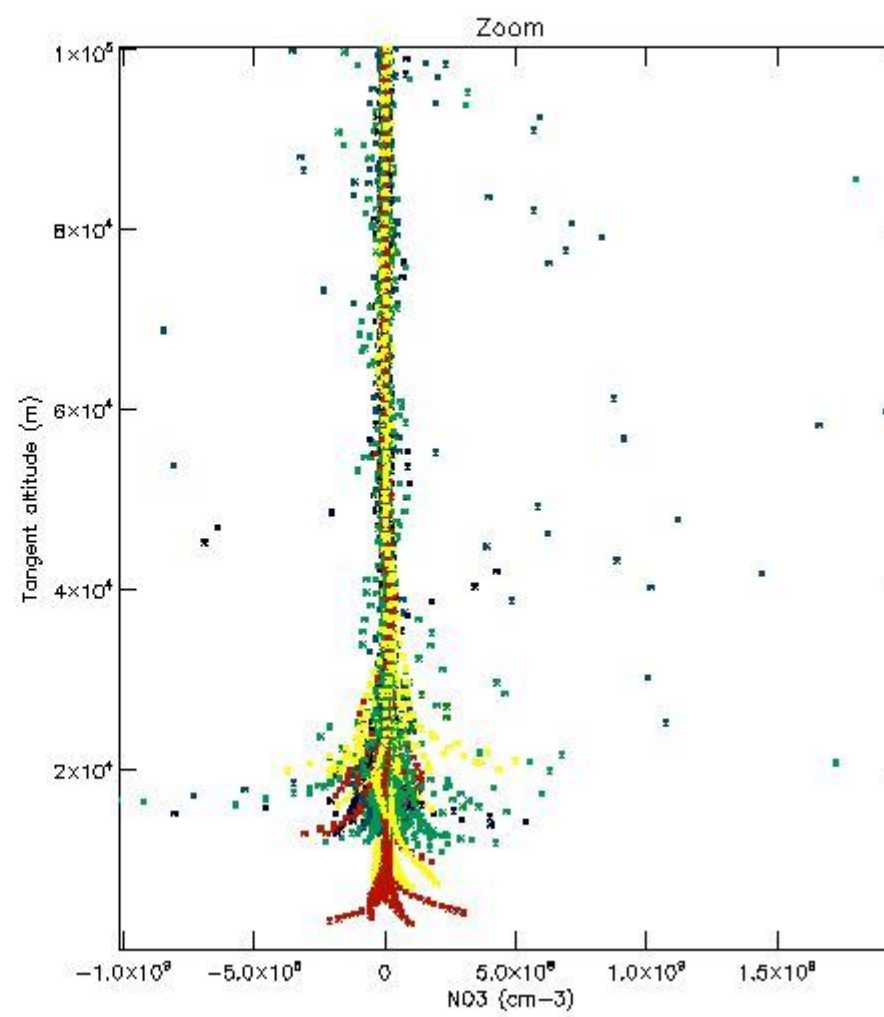
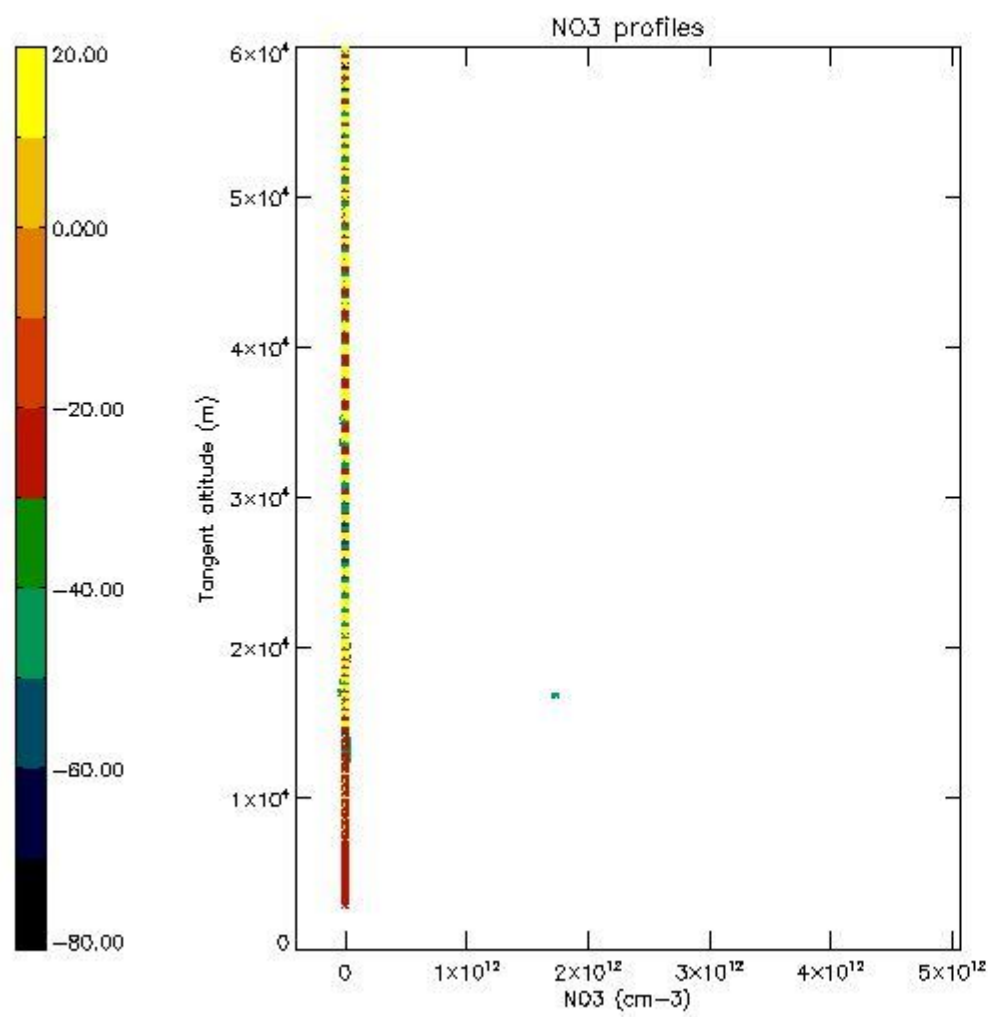
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



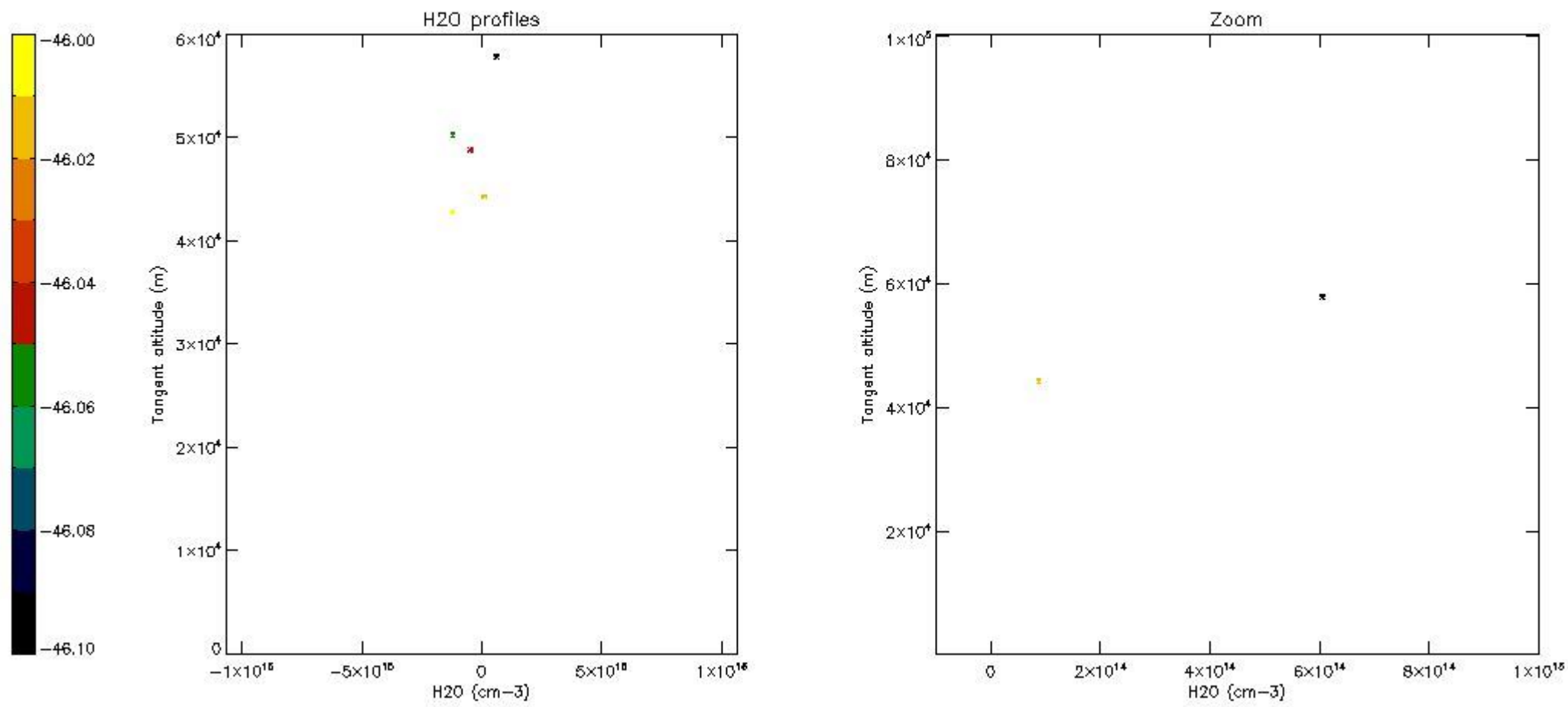
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

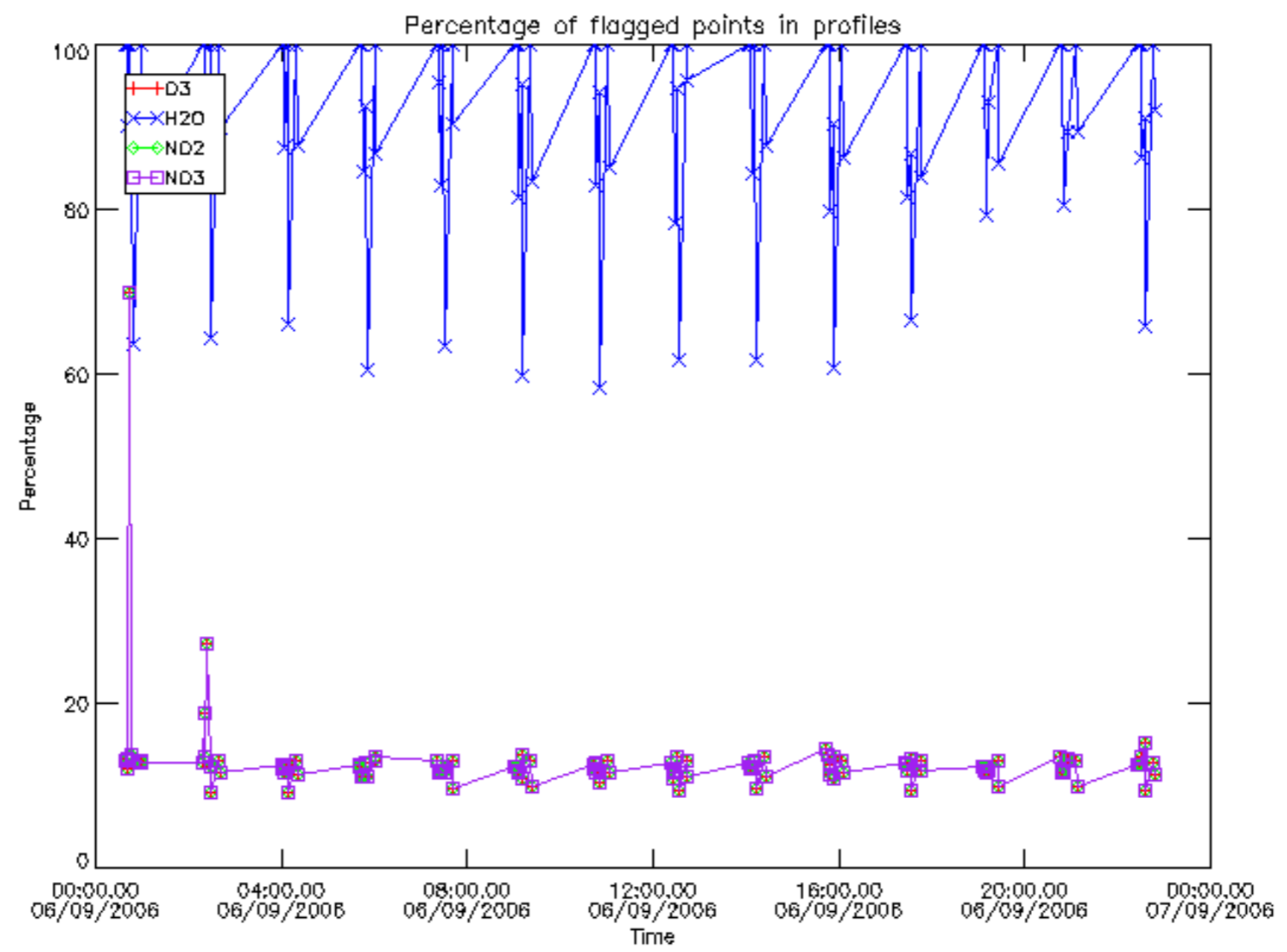
The colorbar represents the latitude.



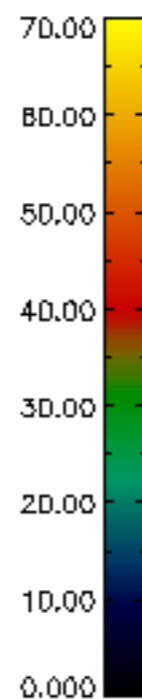
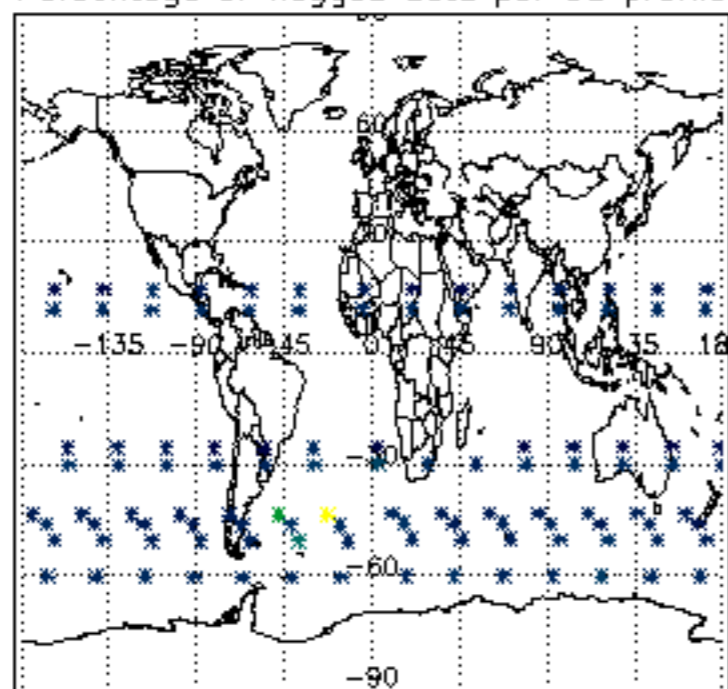
6. Auxiliary Data Files used for the production reported in section 2

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

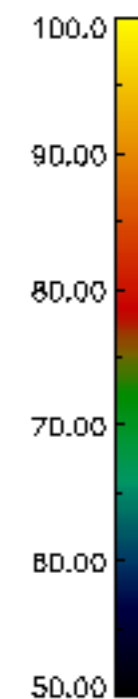
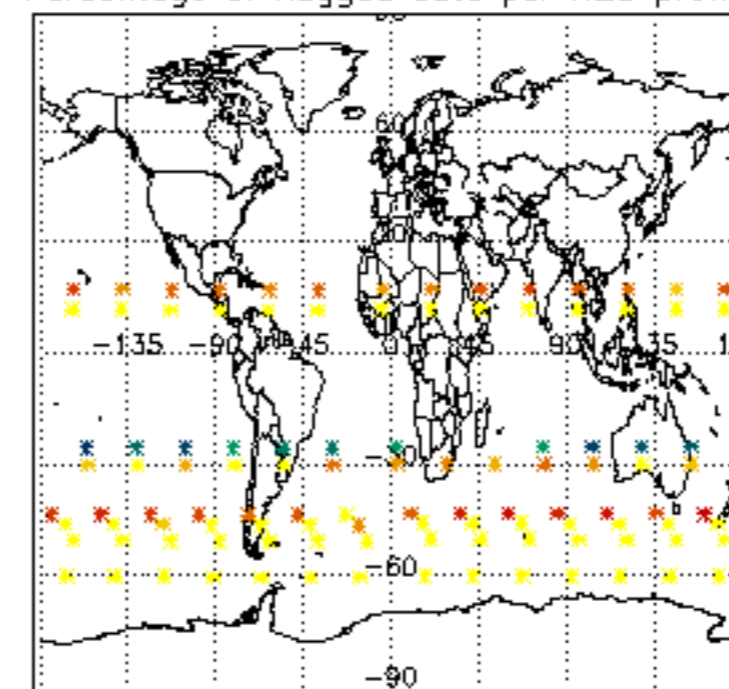
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	06-SEP-2006 00:05:49
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	06-SEP-2006 00:05:49
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	06-SEP-2006 00:05:49



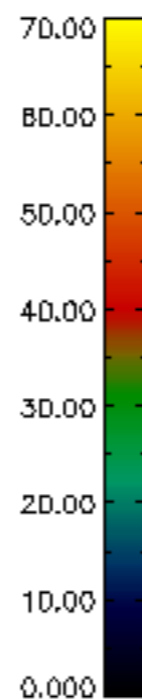
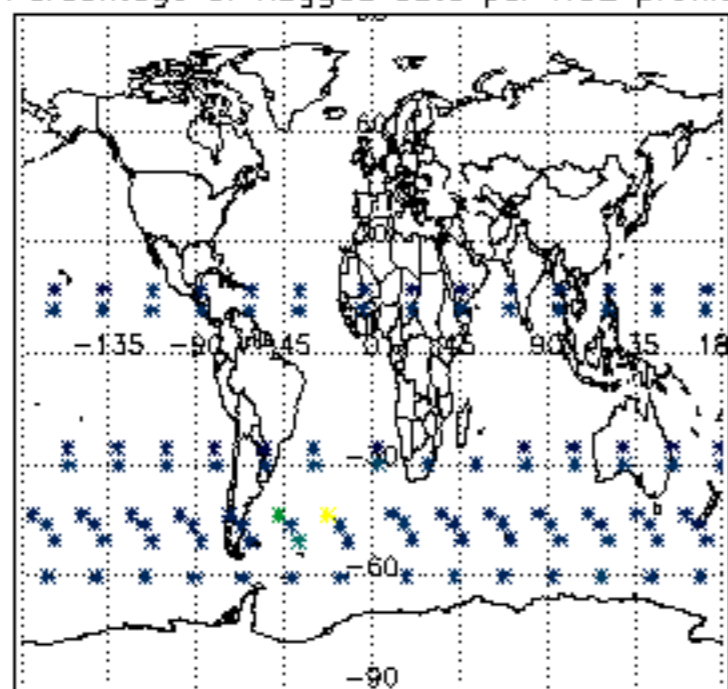
Percentage of flagged data per D3 profile



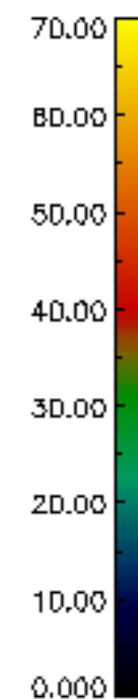
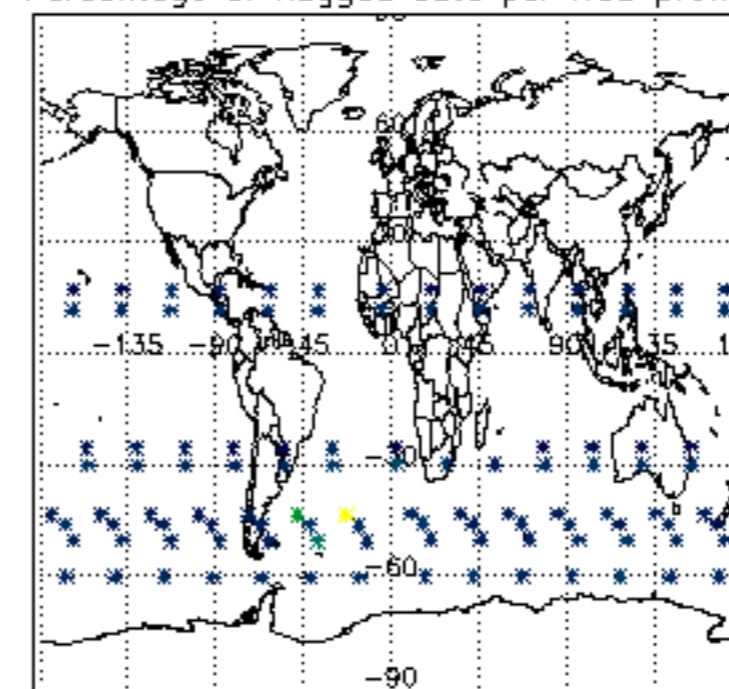
Percentage of flagged data per H2O profile

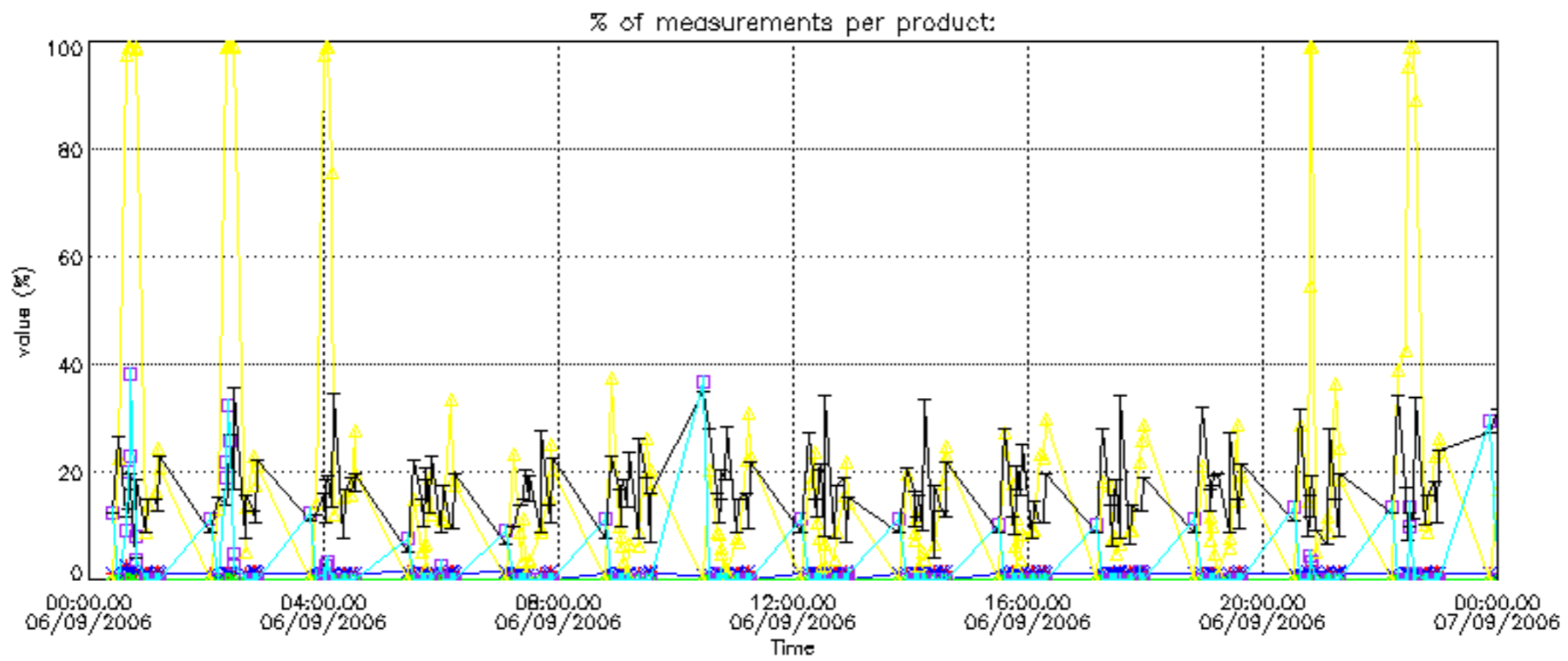


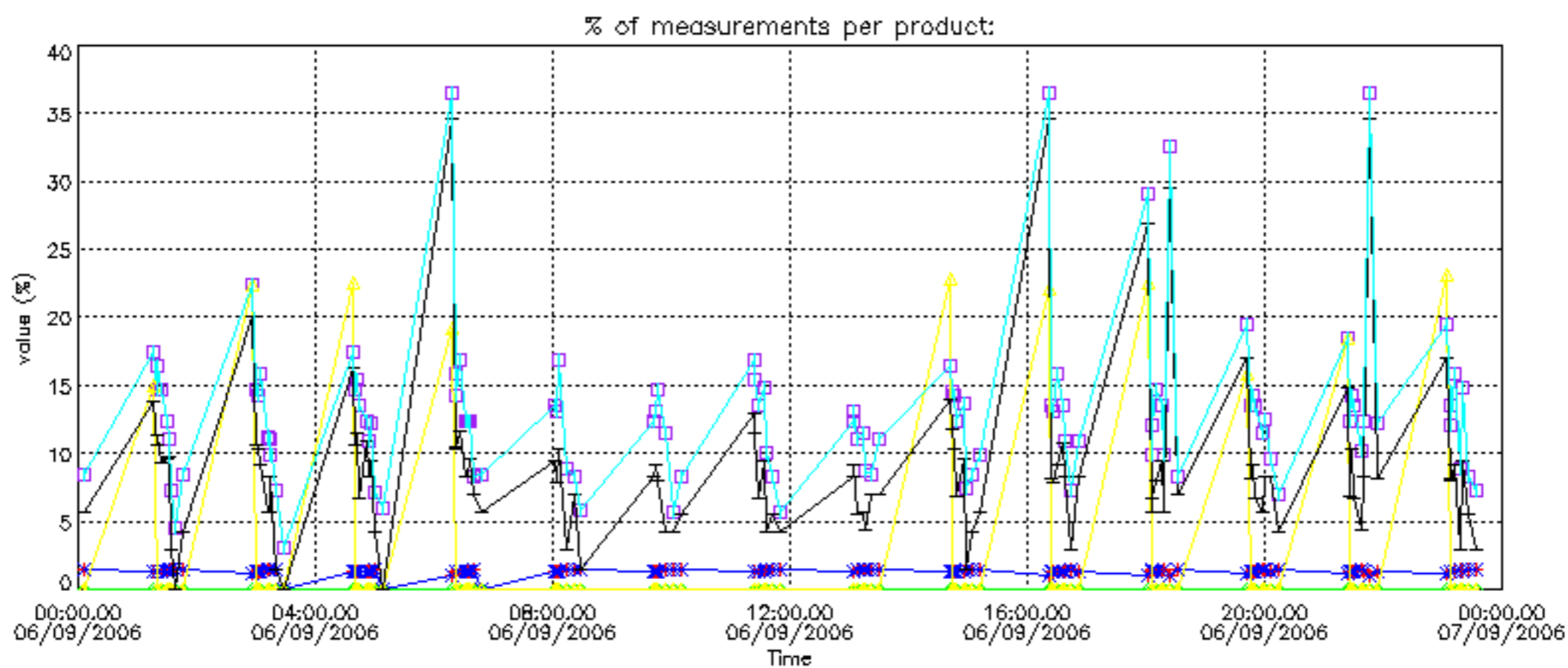
Percentage of flagged data per NO2 profile



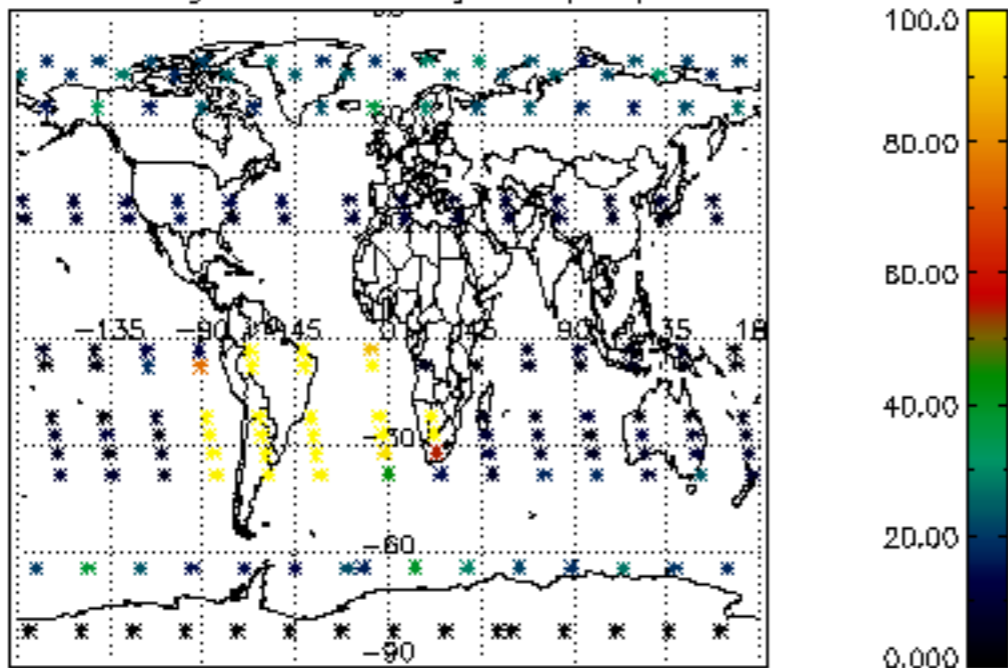
Percentage of flagged data per NO3 profile



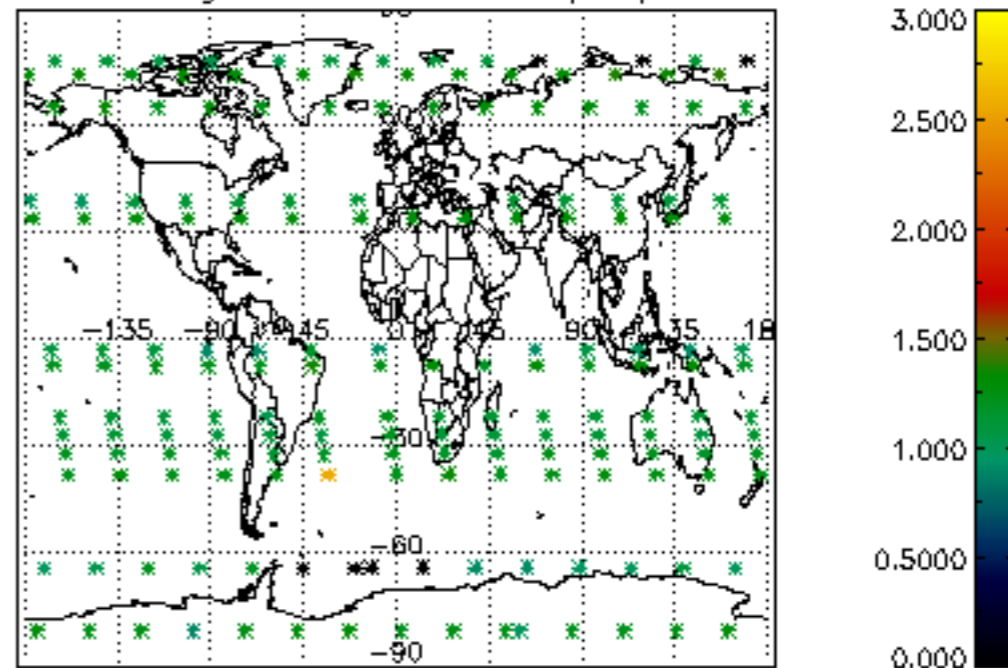




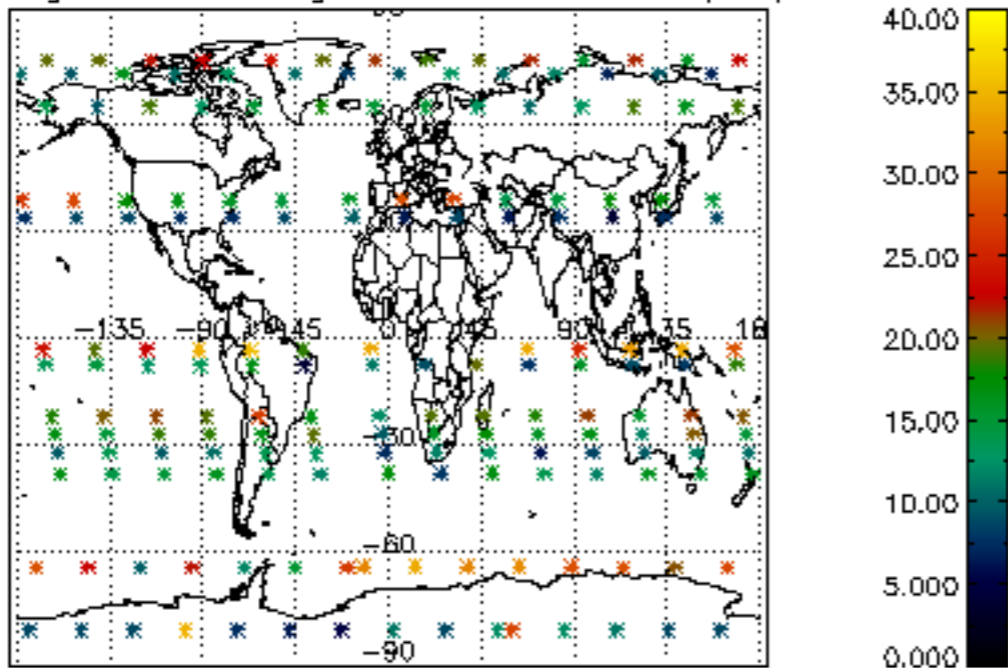
Percentage of cosmic ray hits per profile



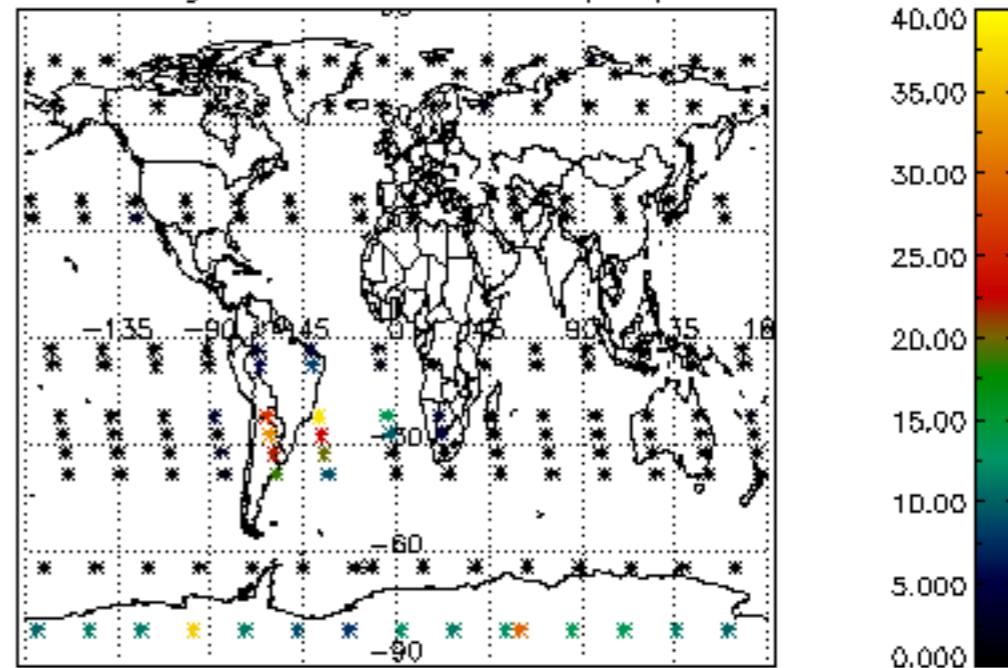
Percentage of datation errors per profile



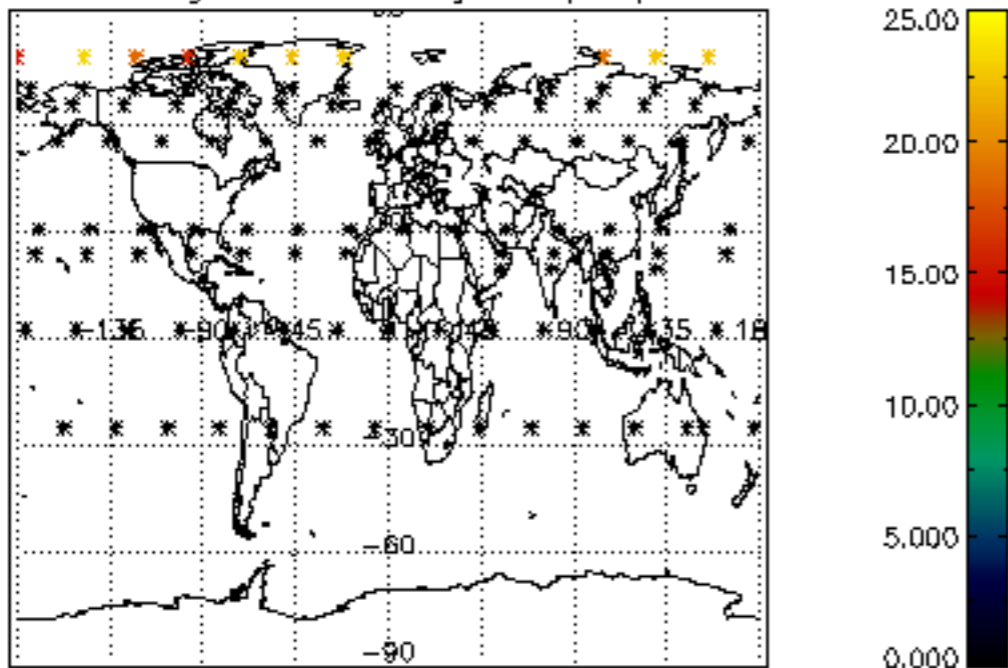
Percentage of star falling outside central band per profile



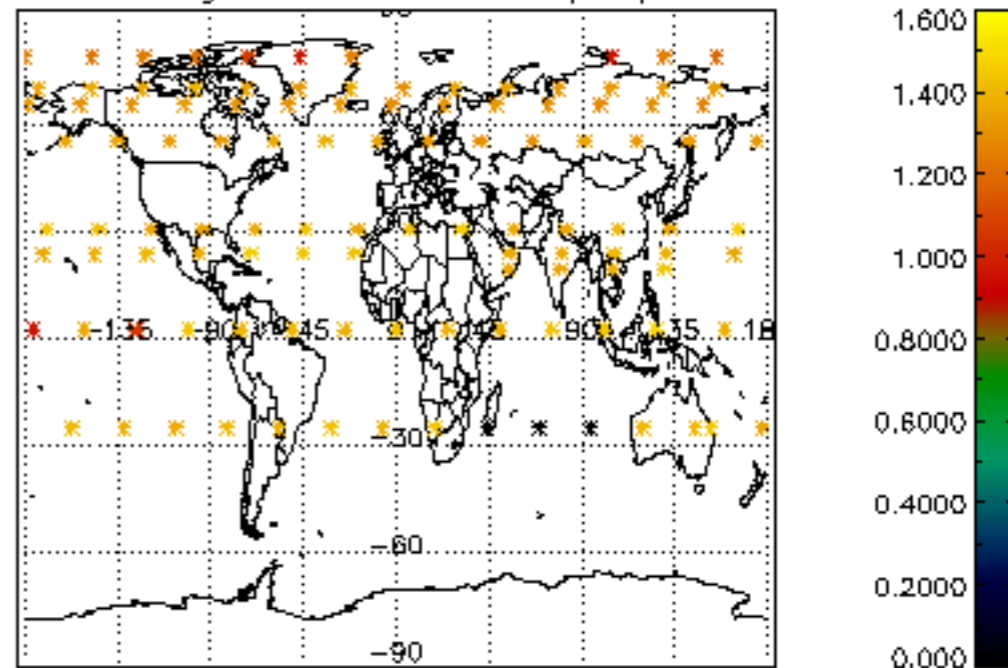
Percentage of saturation errors per profile



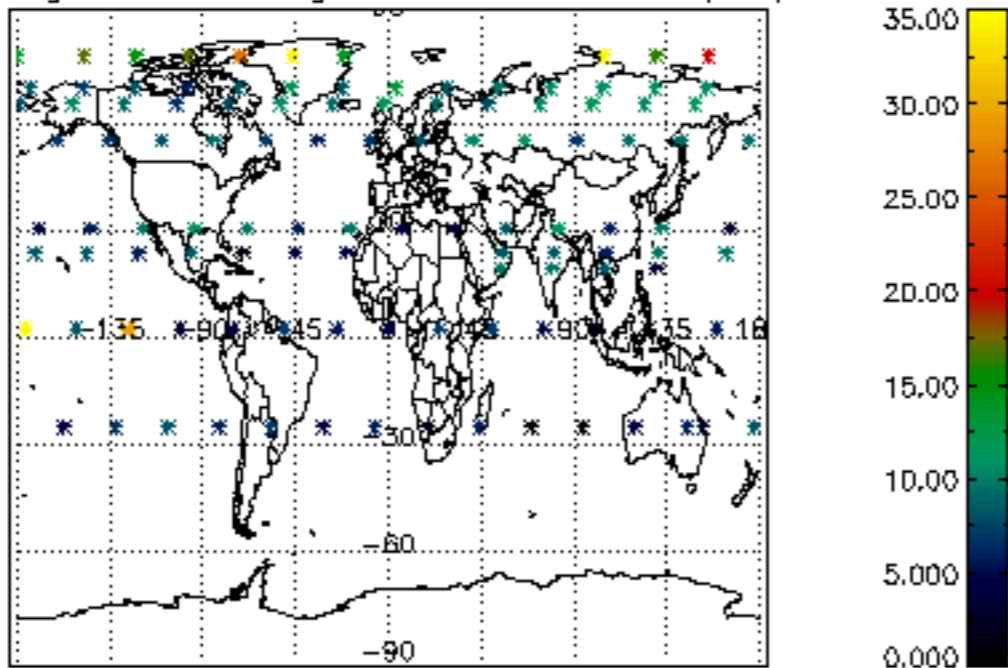
Percentage of cosmic ray hits per profile



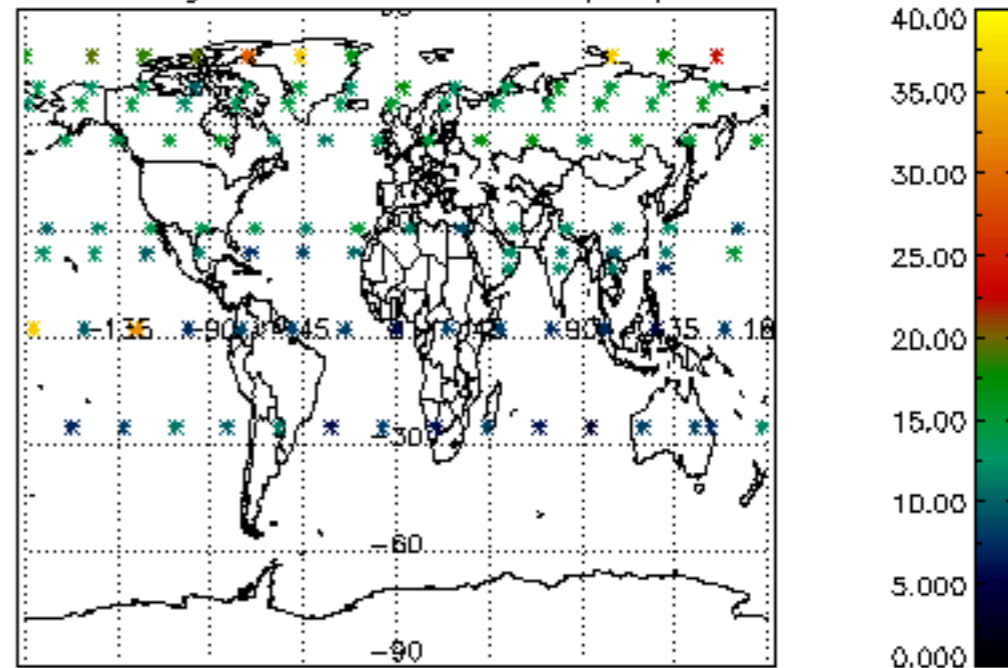
Percentage of datation errors per profile

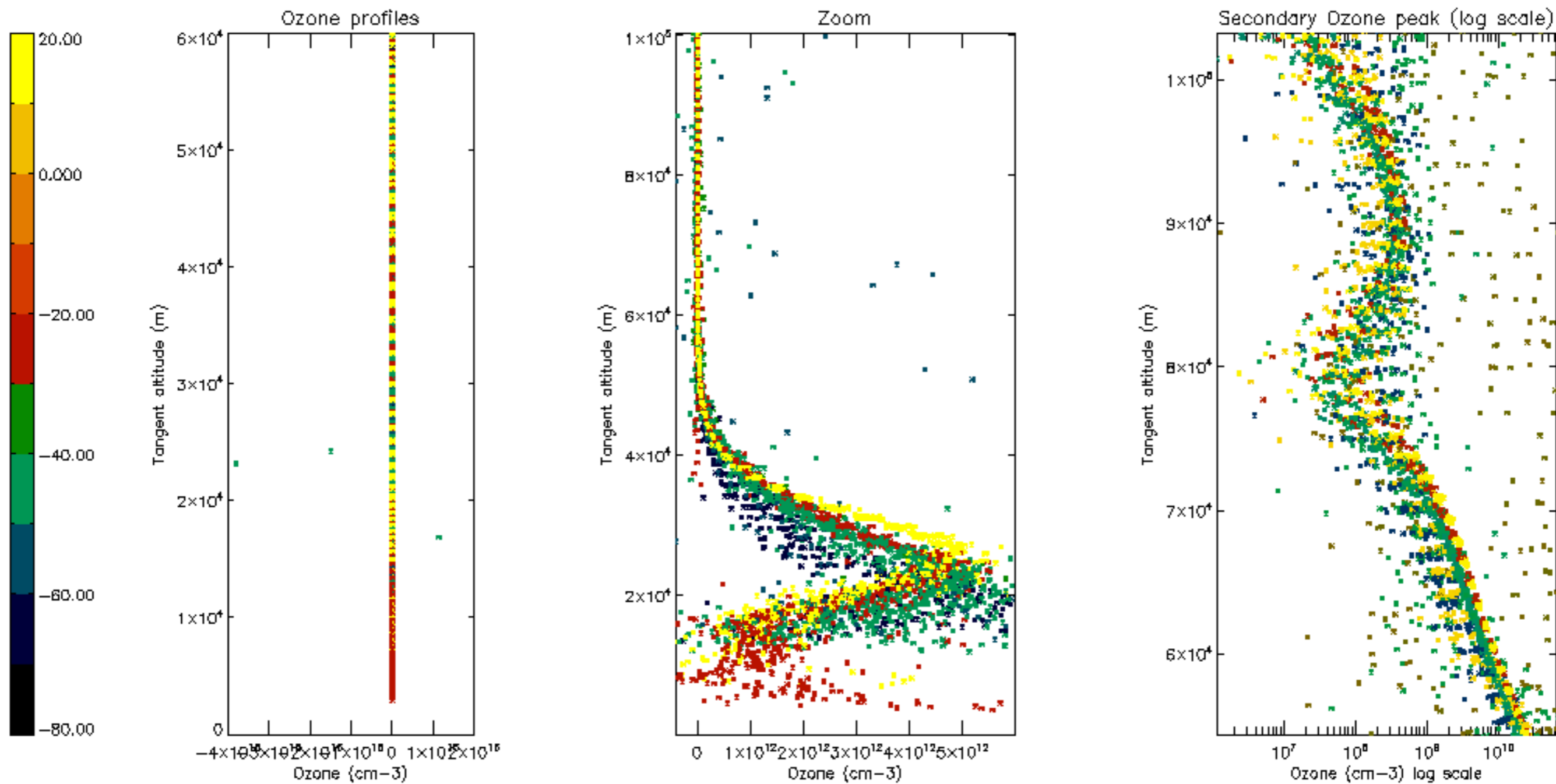


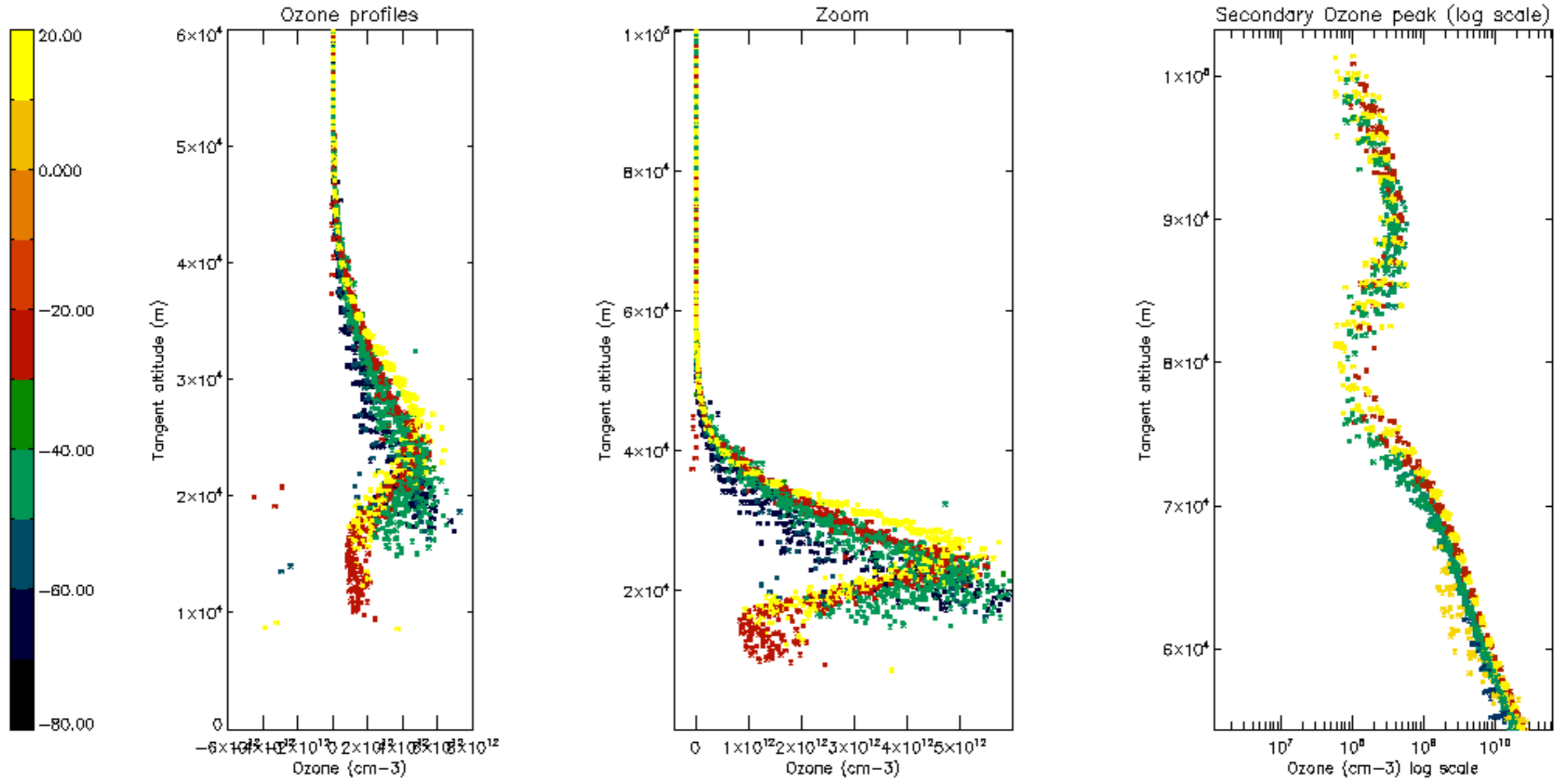
Percentage of star falling outside central band per profile

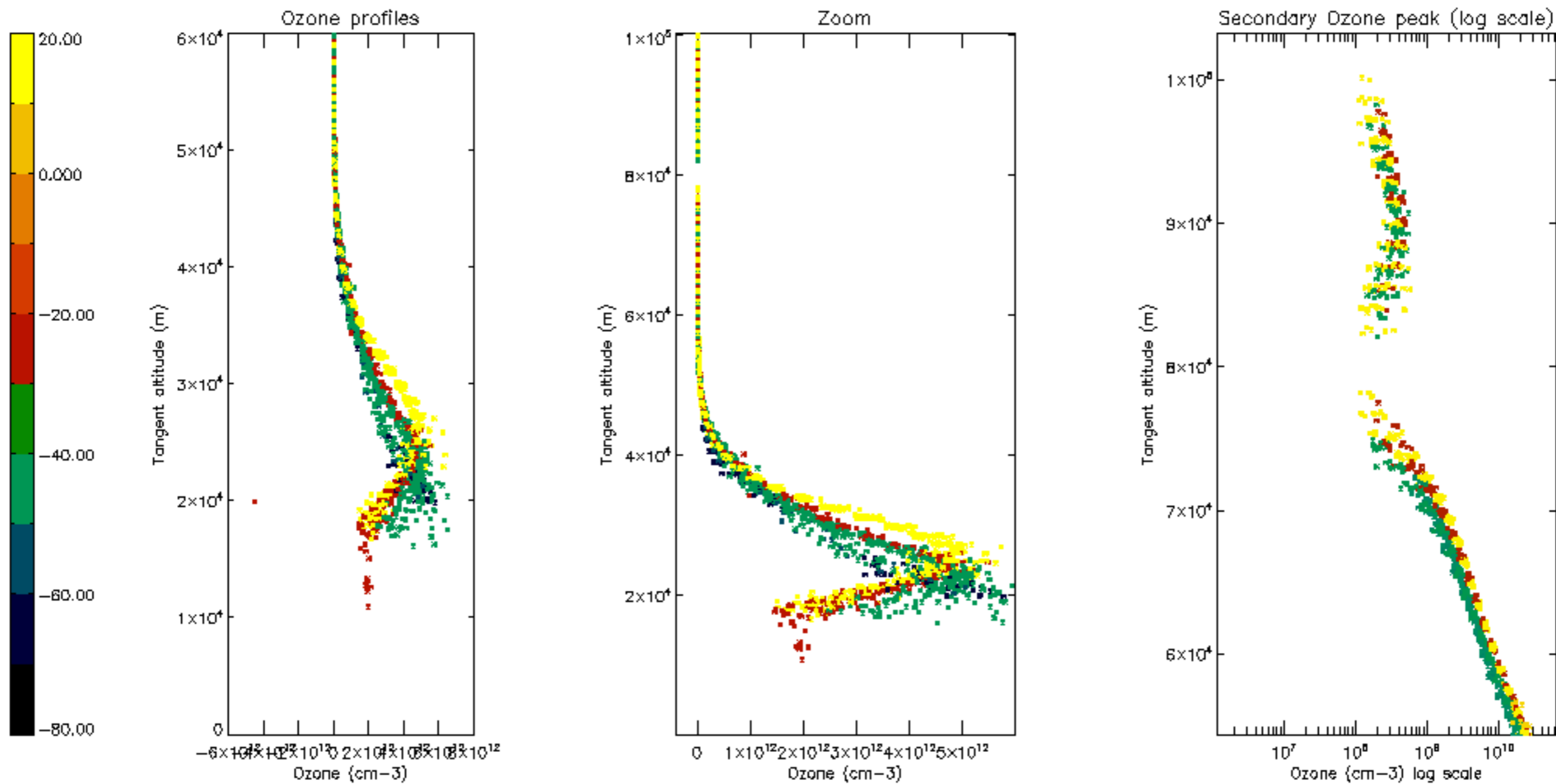


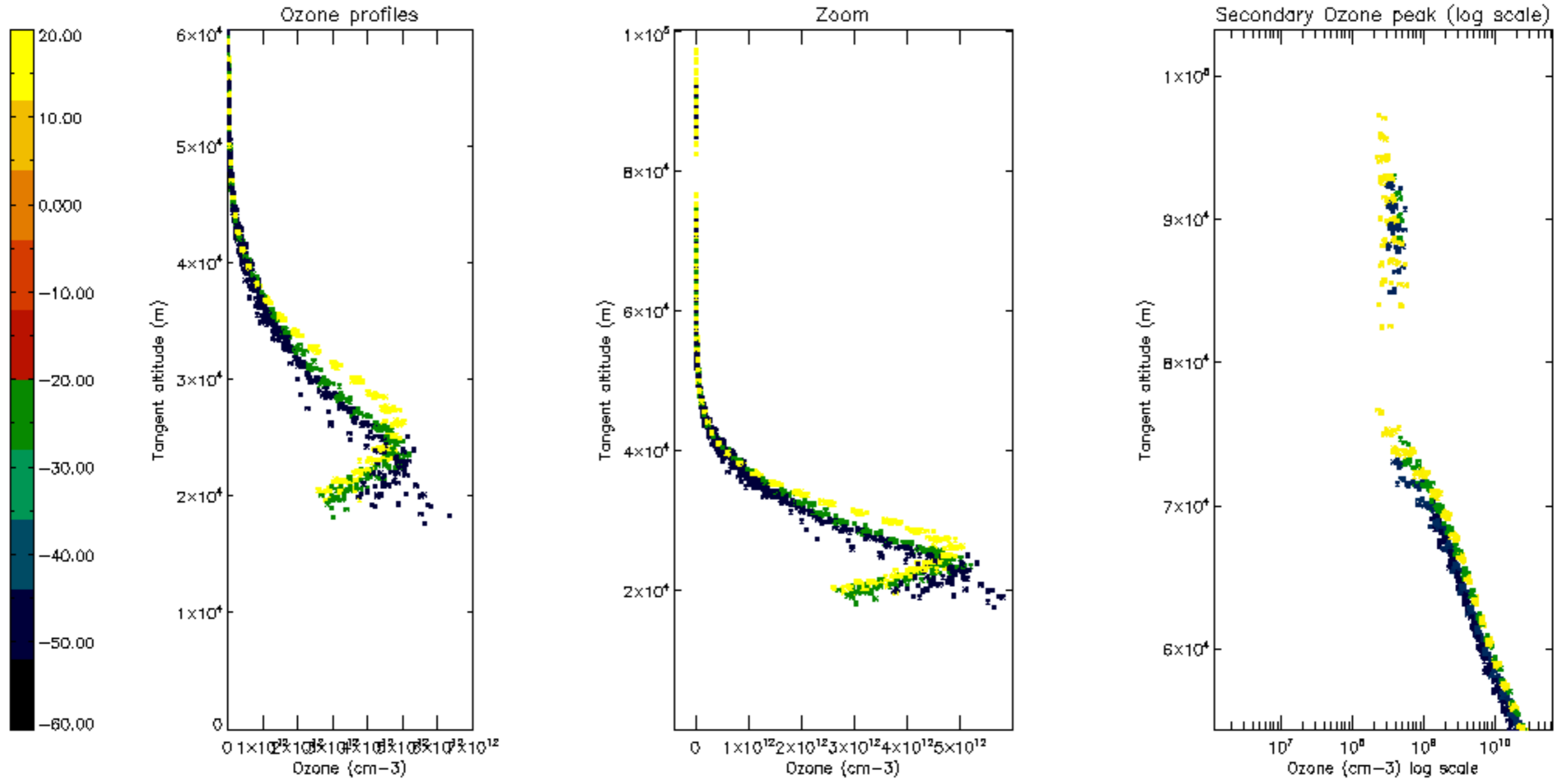
Percentage of saturation errors per profile

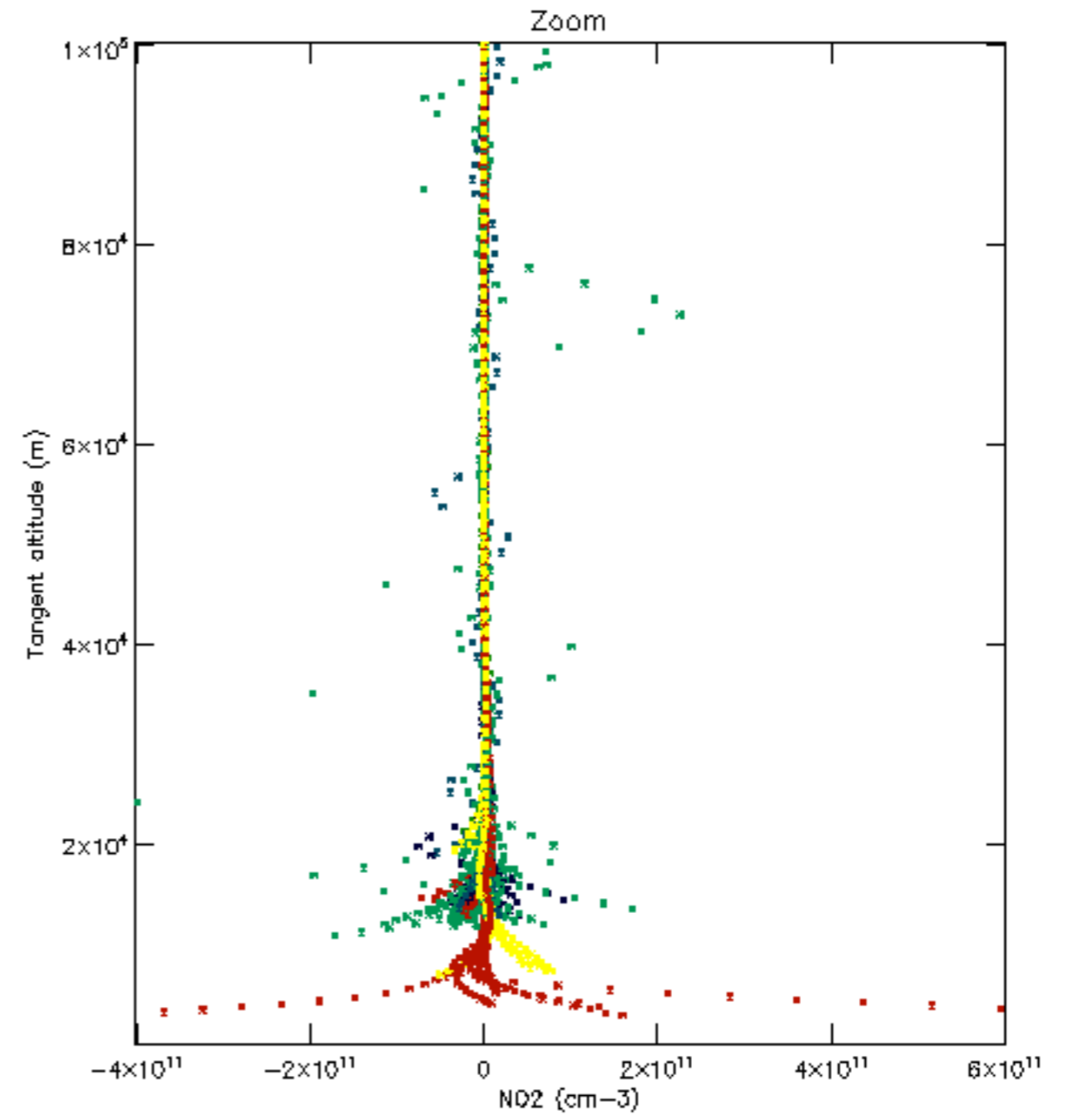
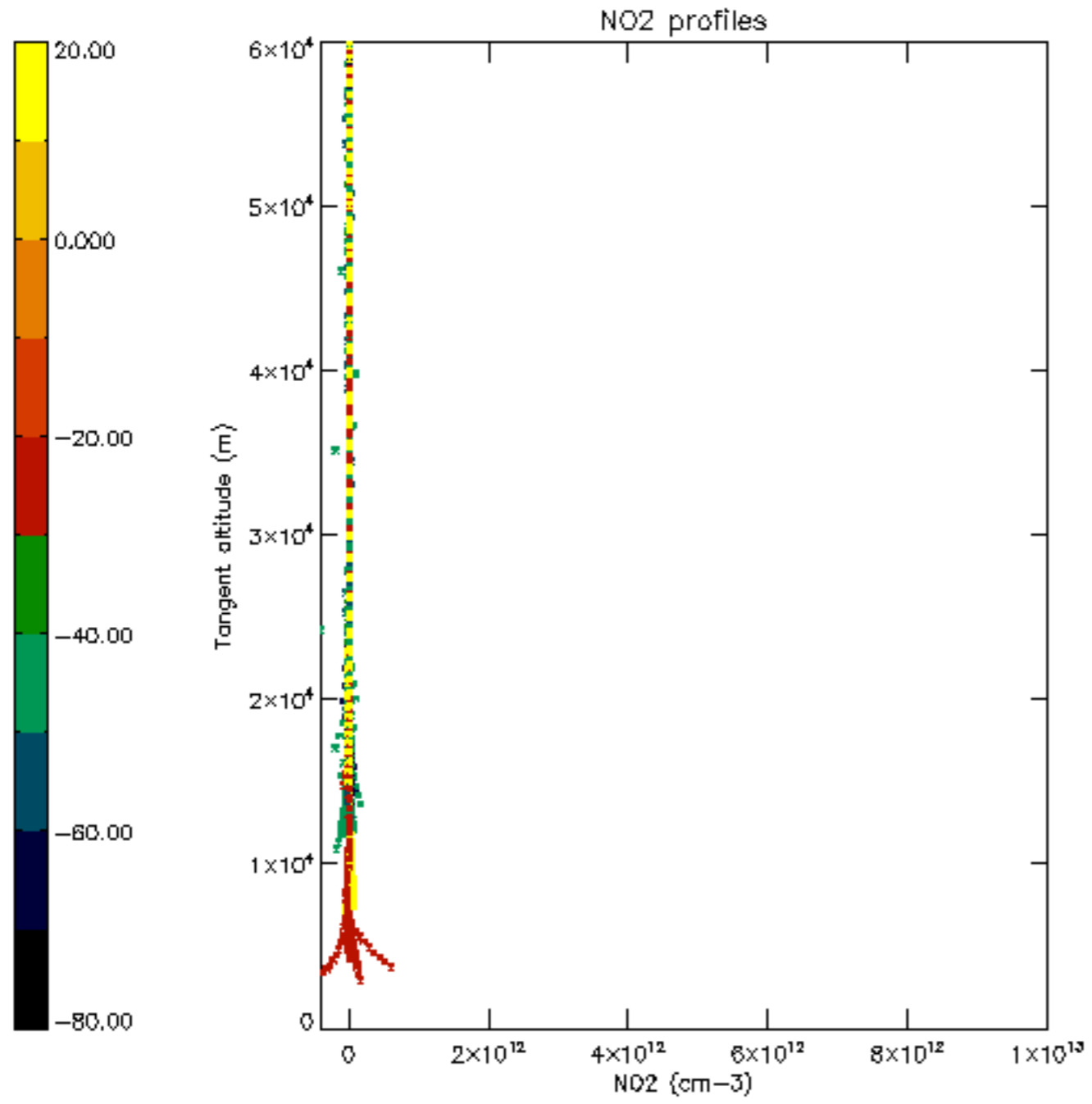


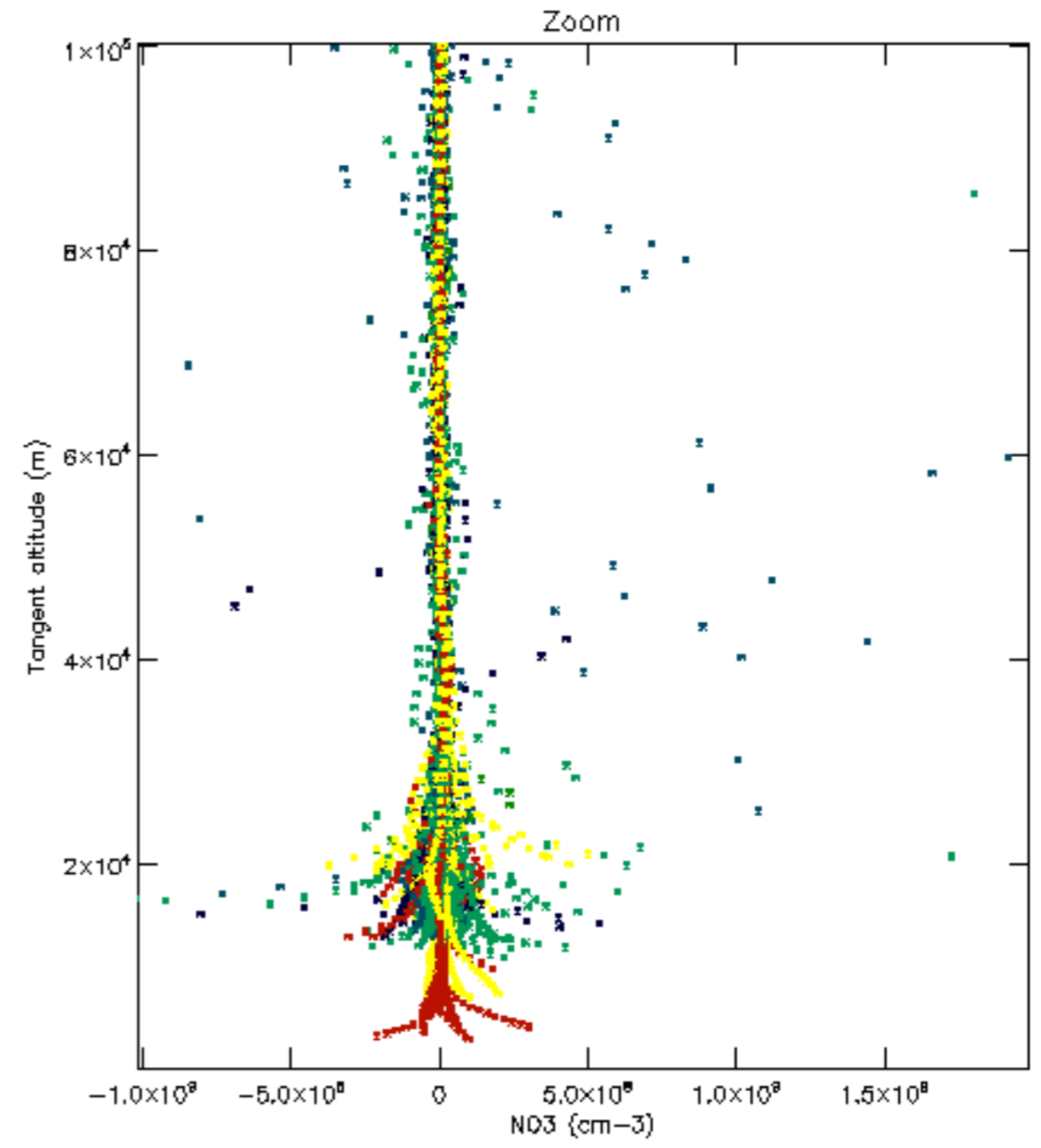
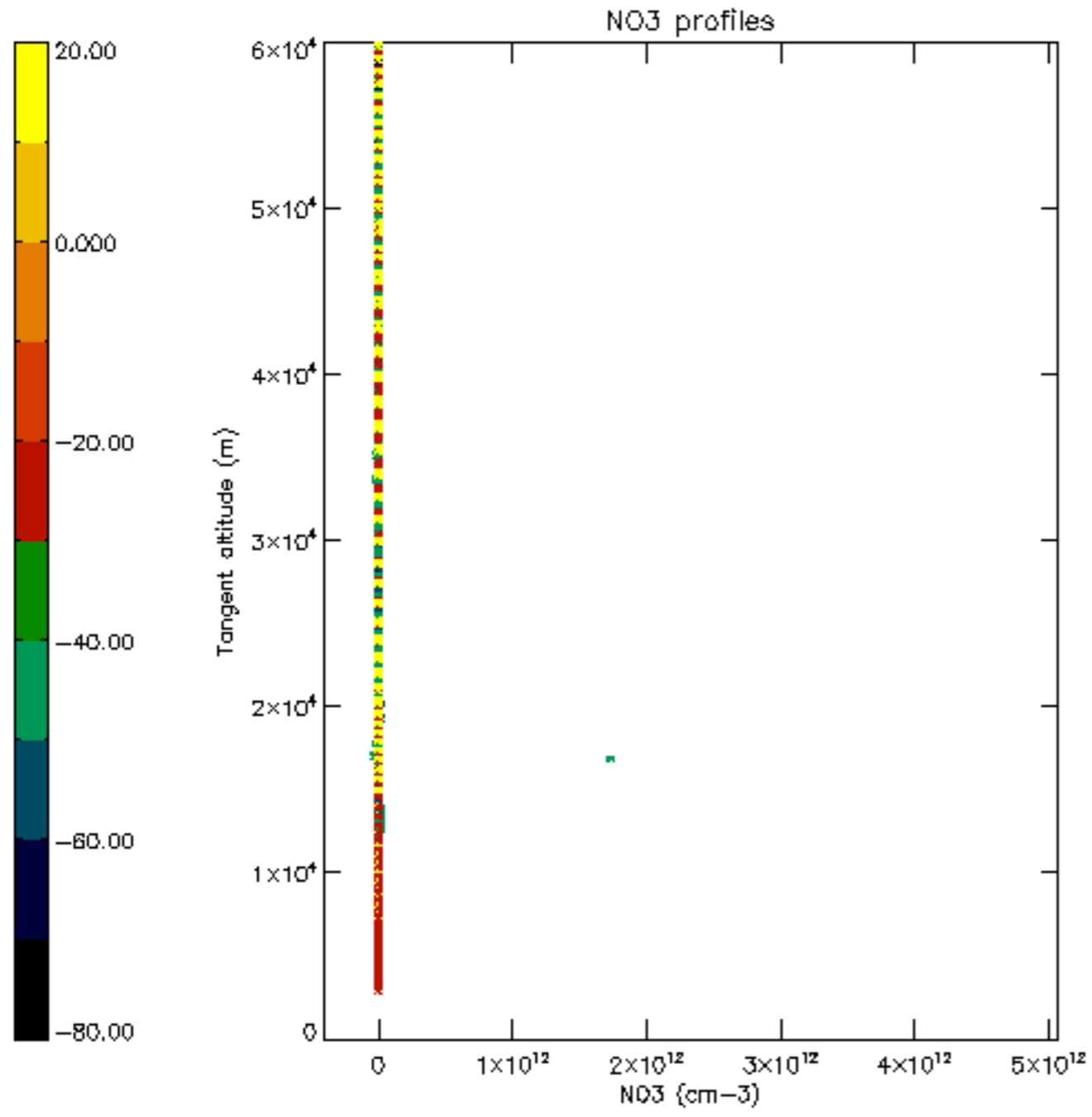


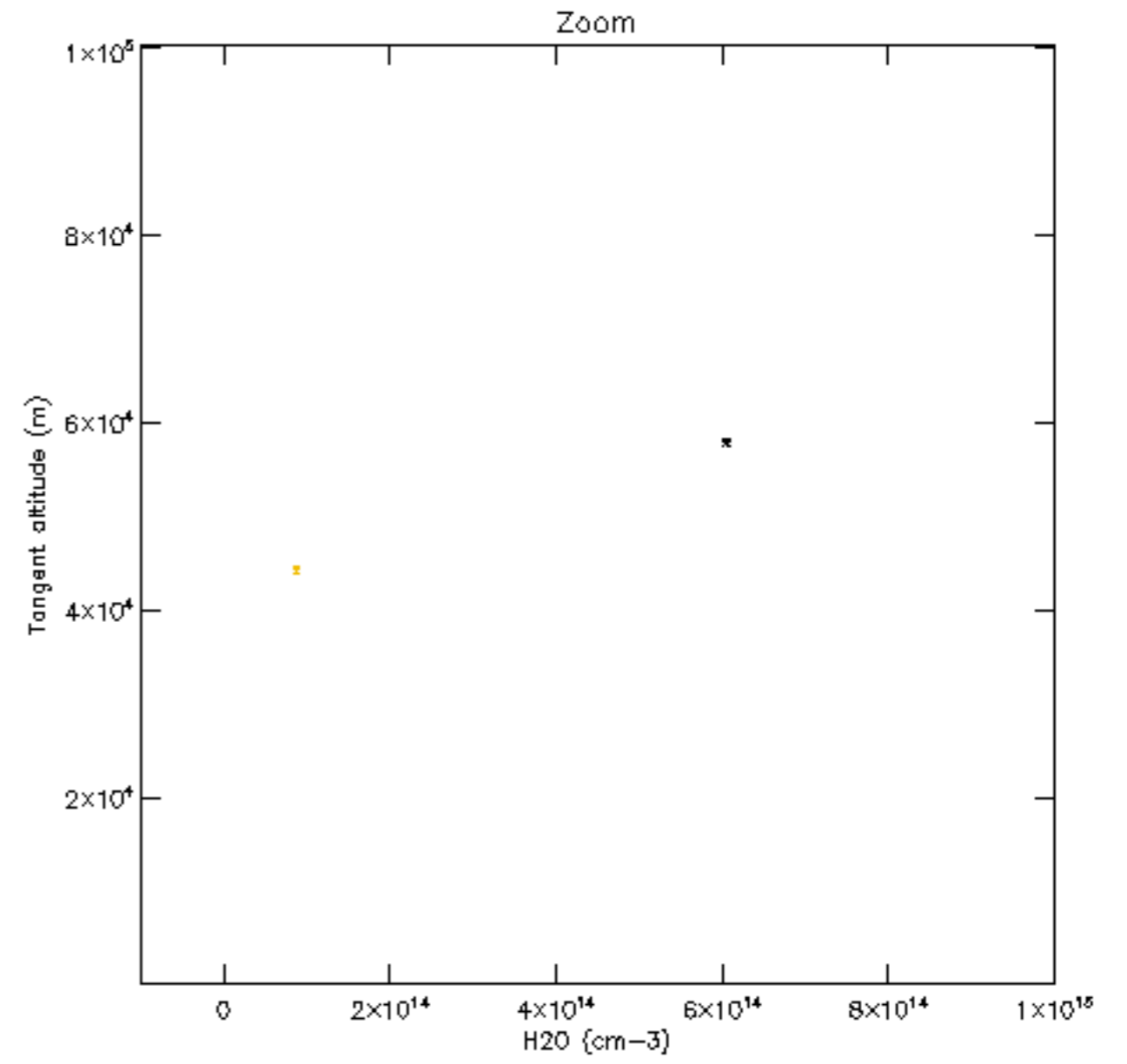
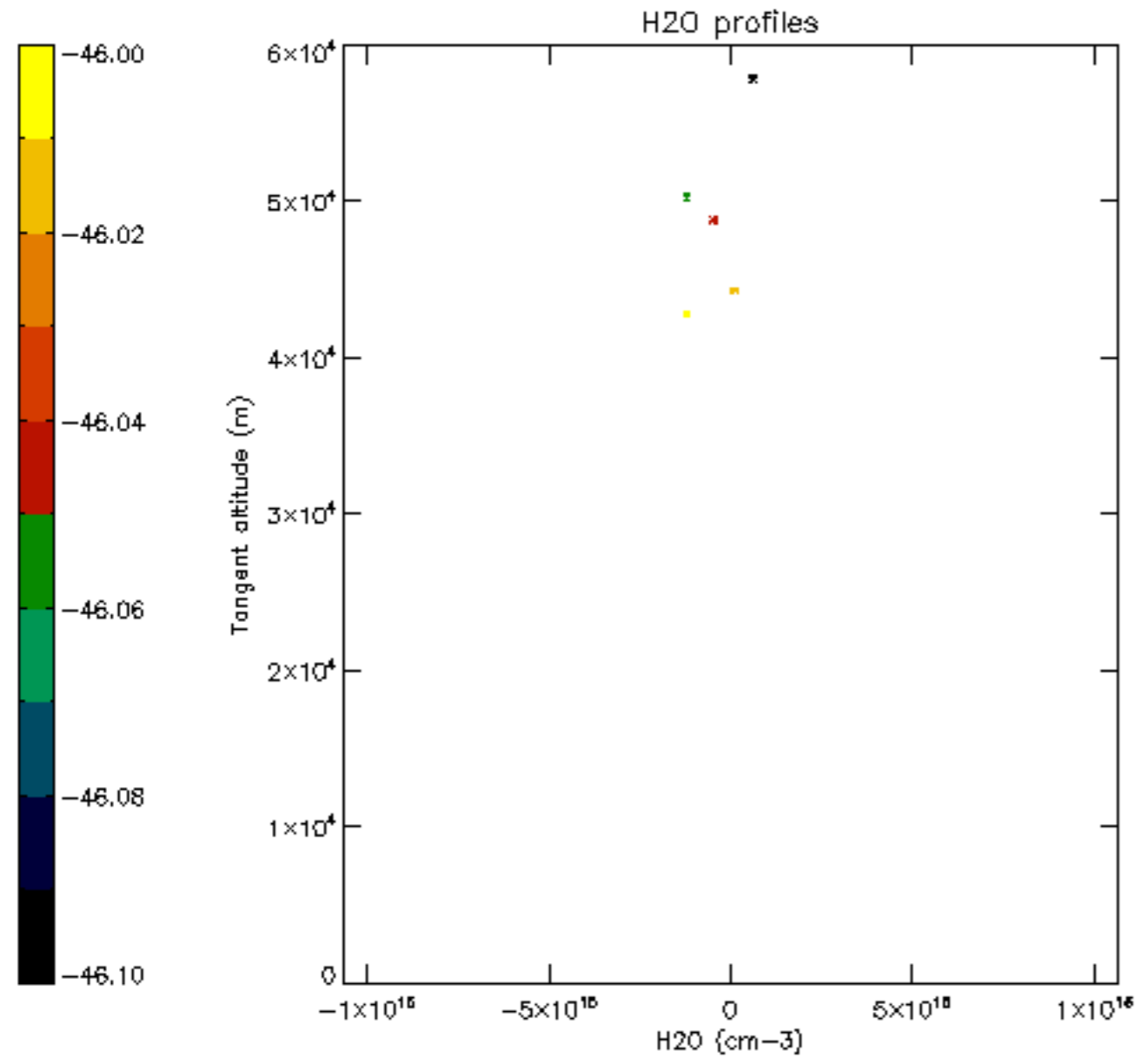


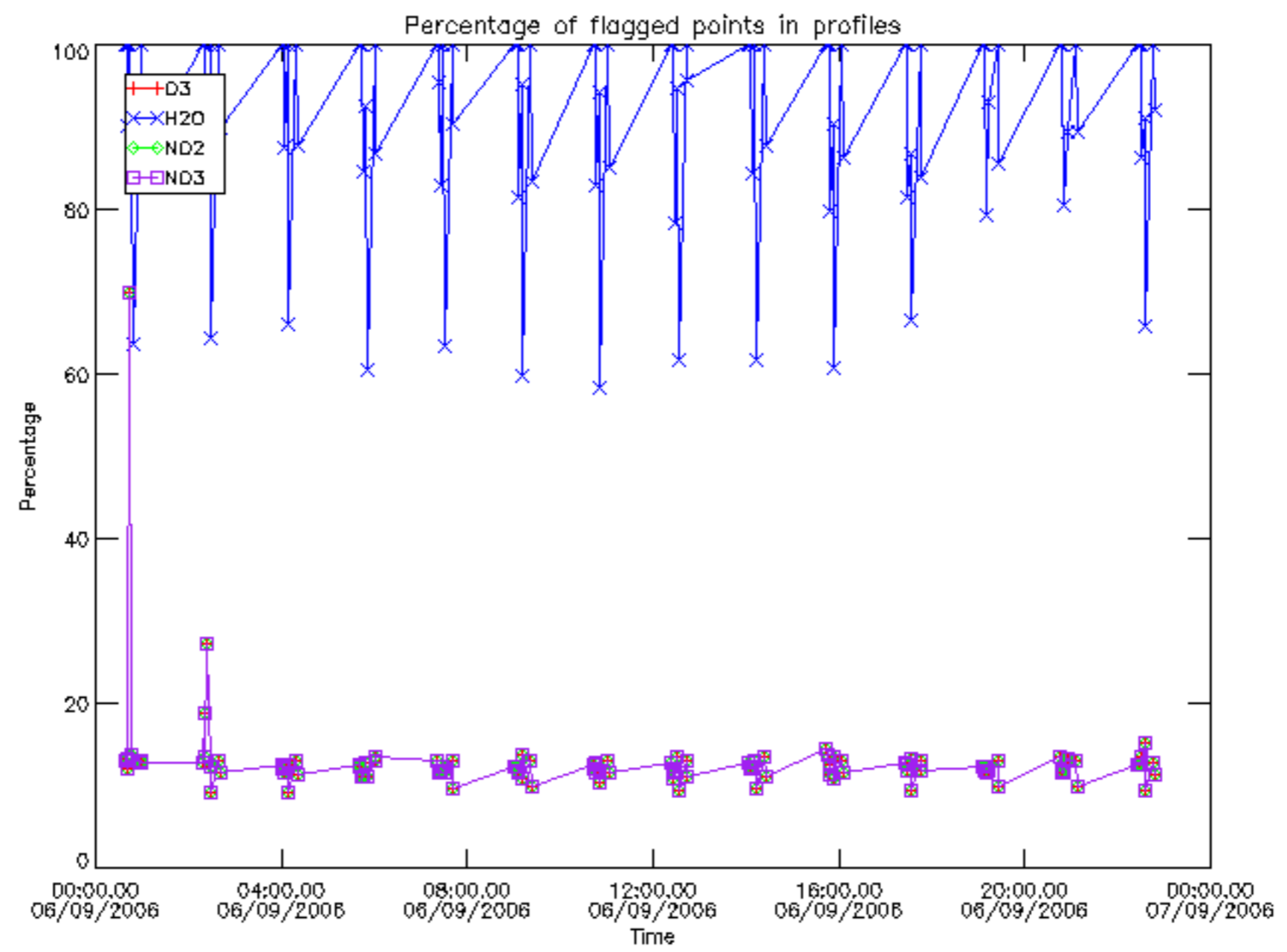




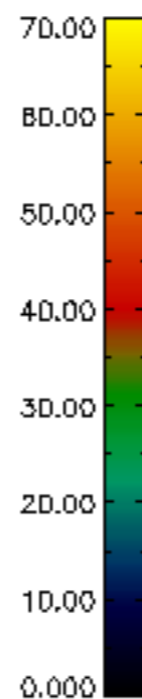
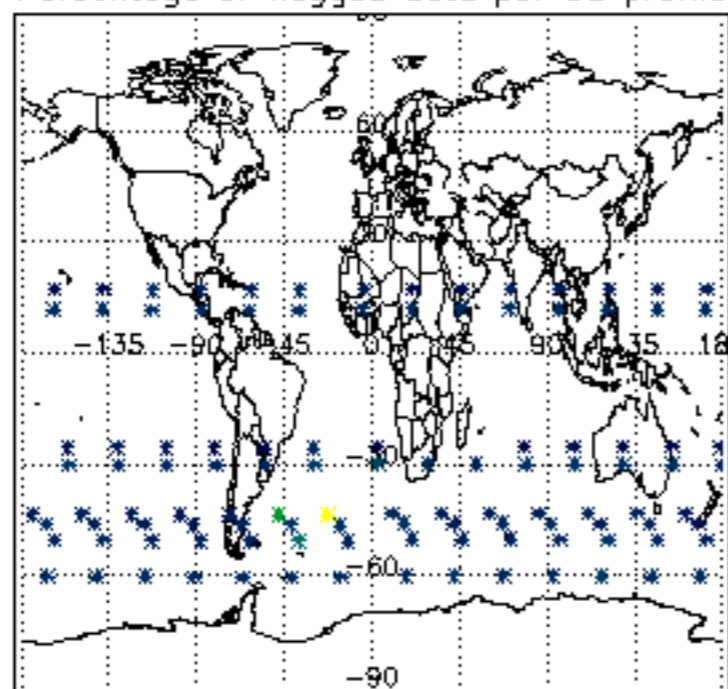




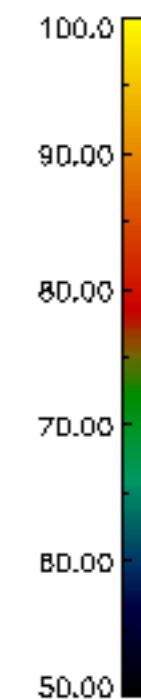
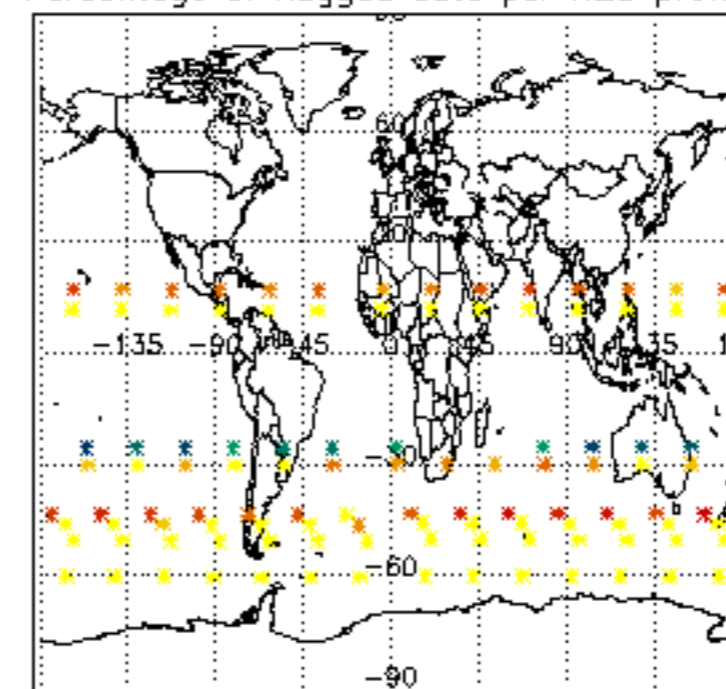




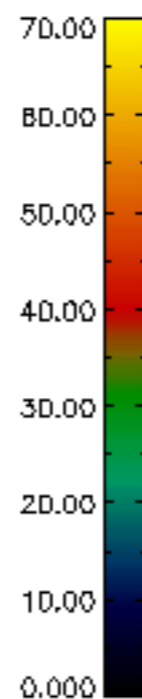
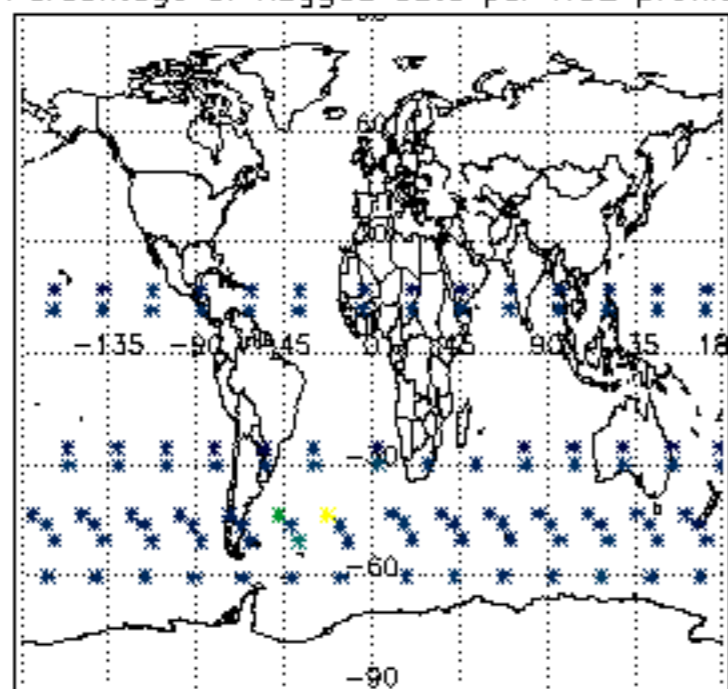
Percentage of flagged data per D3 profile



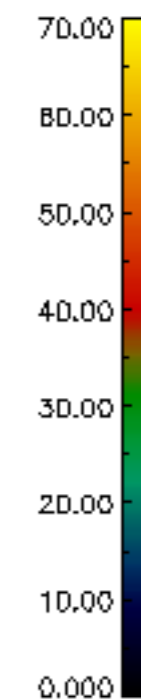
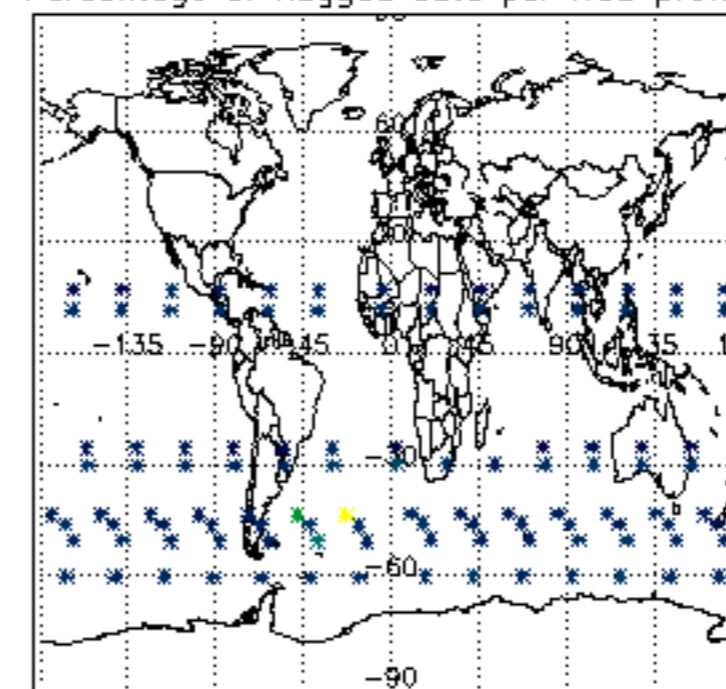
Percentage of flagged data per H2O profile

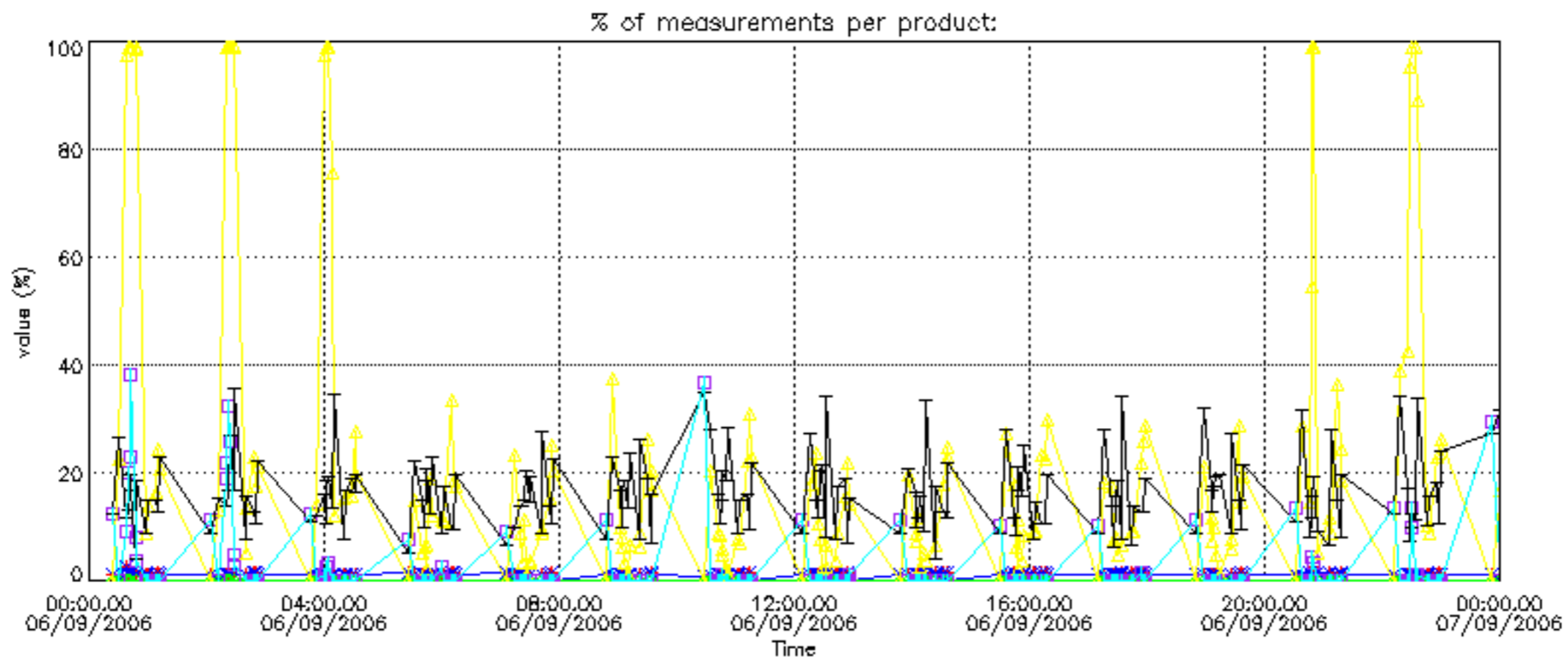


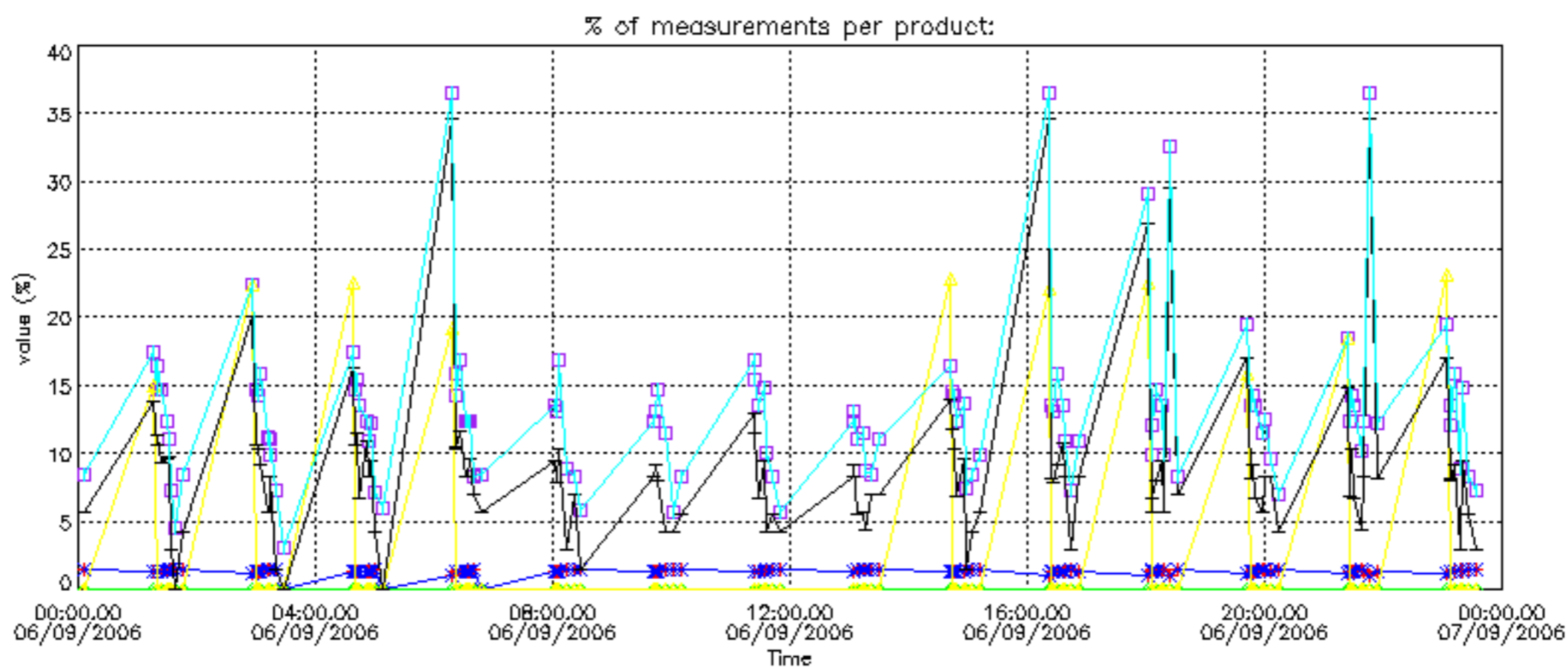
Percentage of flagged data per NO2 profile



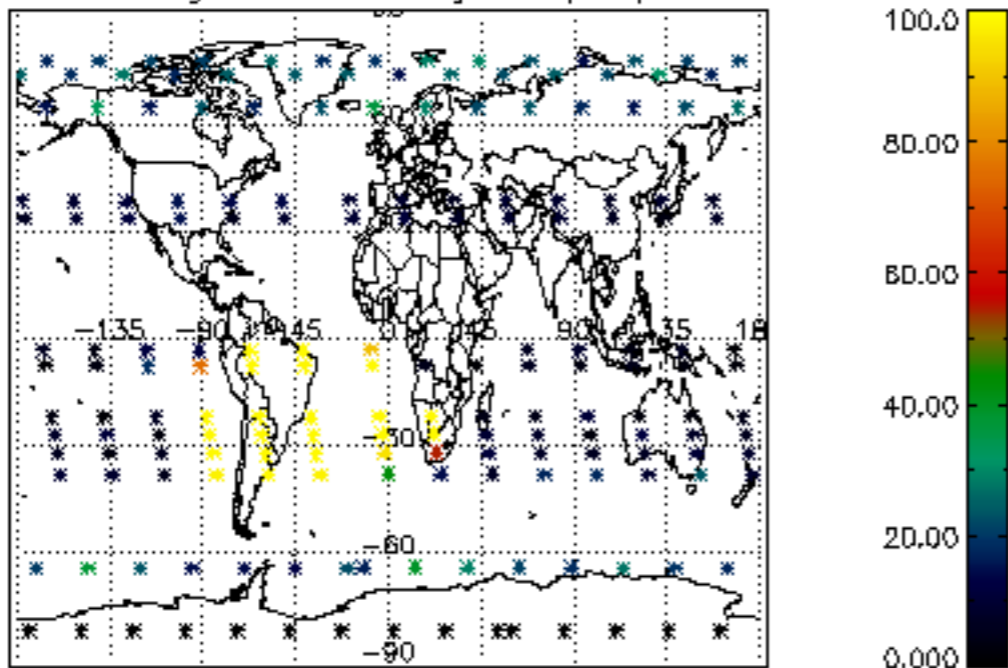
Percentage of flagged data per NO3 profile



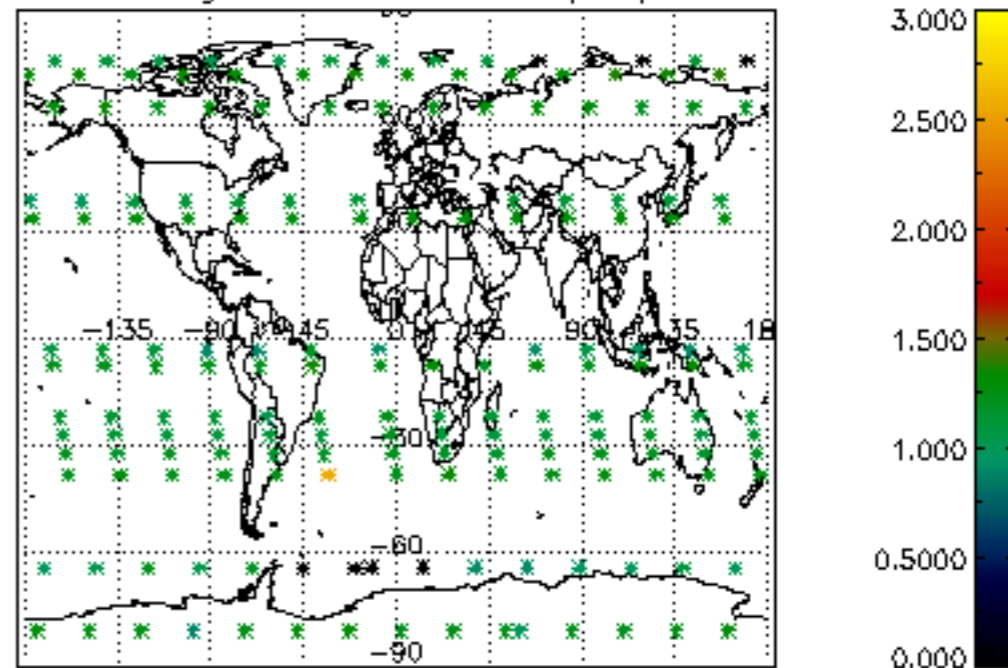




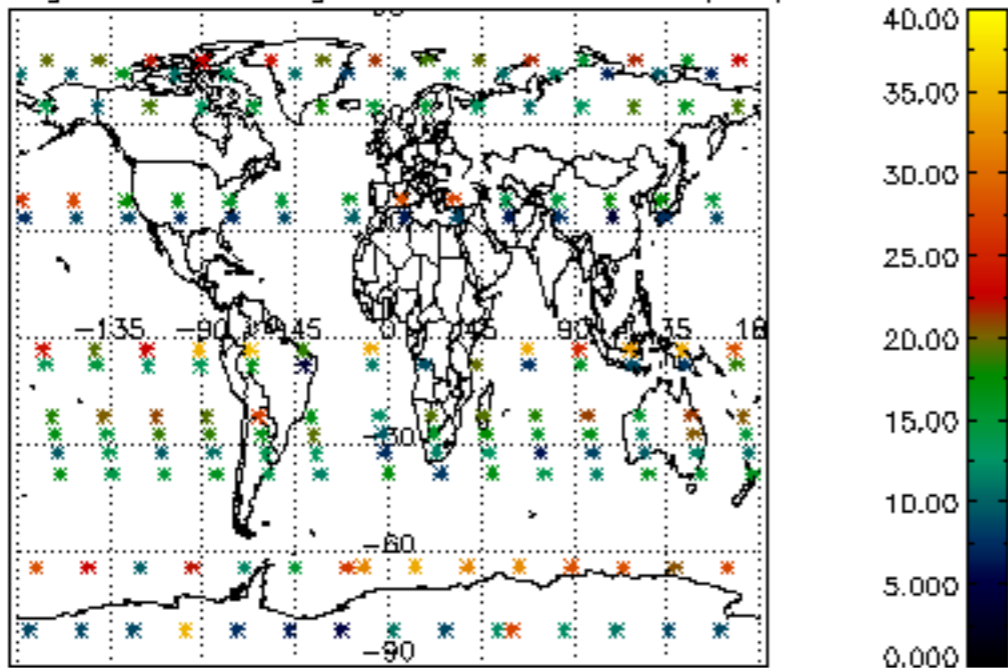
Percentage of cosmic ray hits per profile



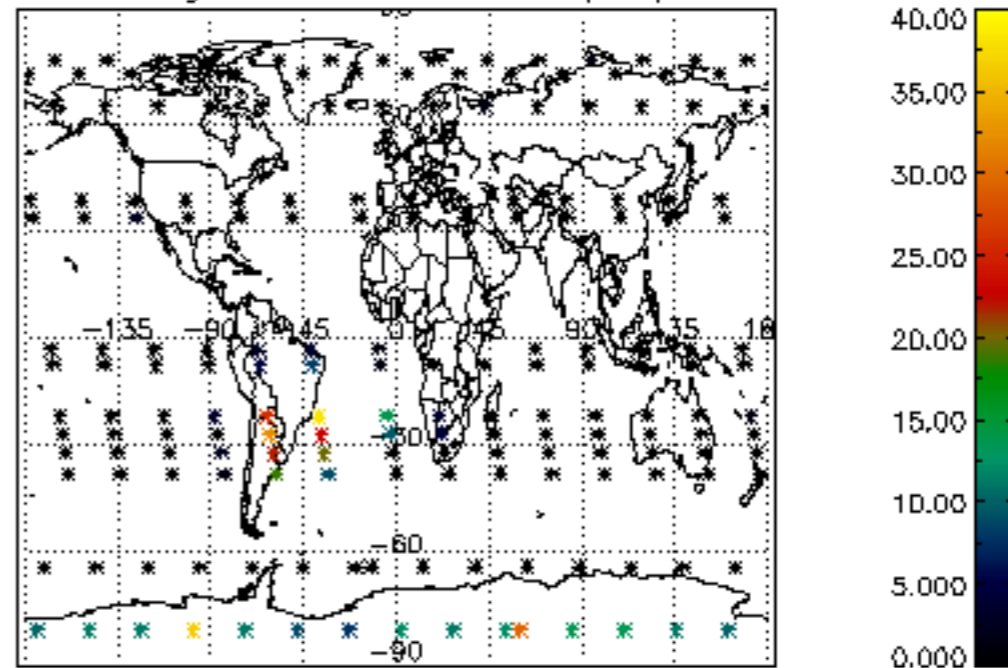
Percentage of datation errors per profile



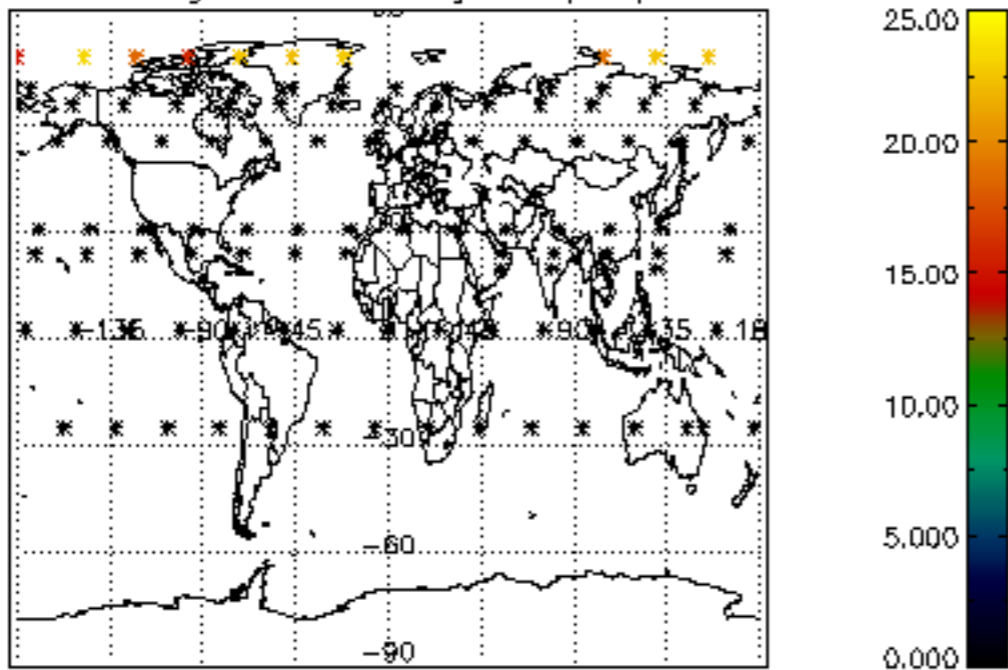
Percentage of star falling outside central band per profile



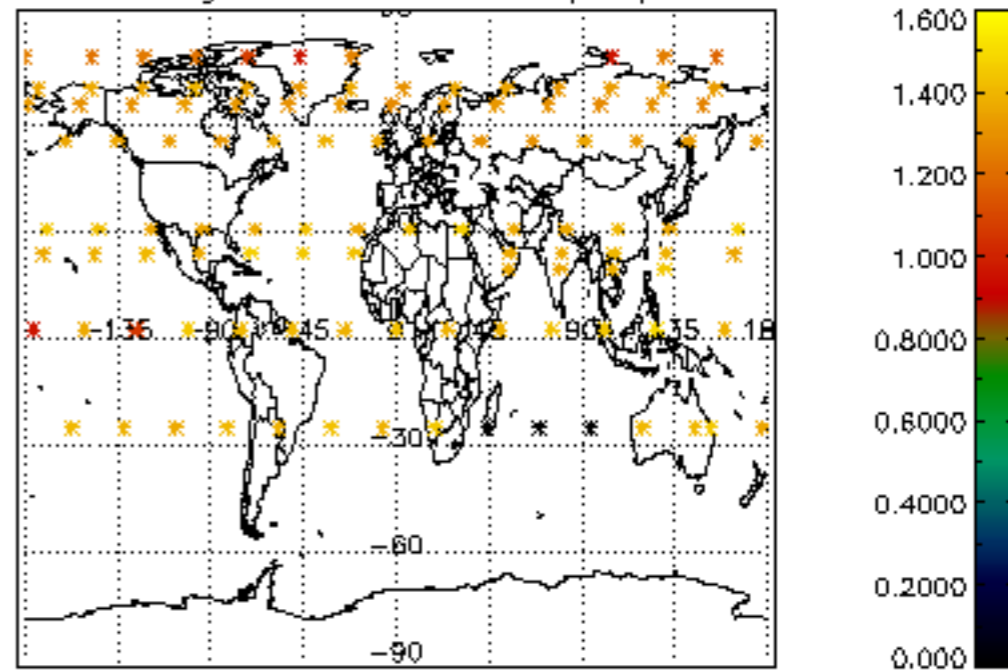
Percentage of saturation errors per profile



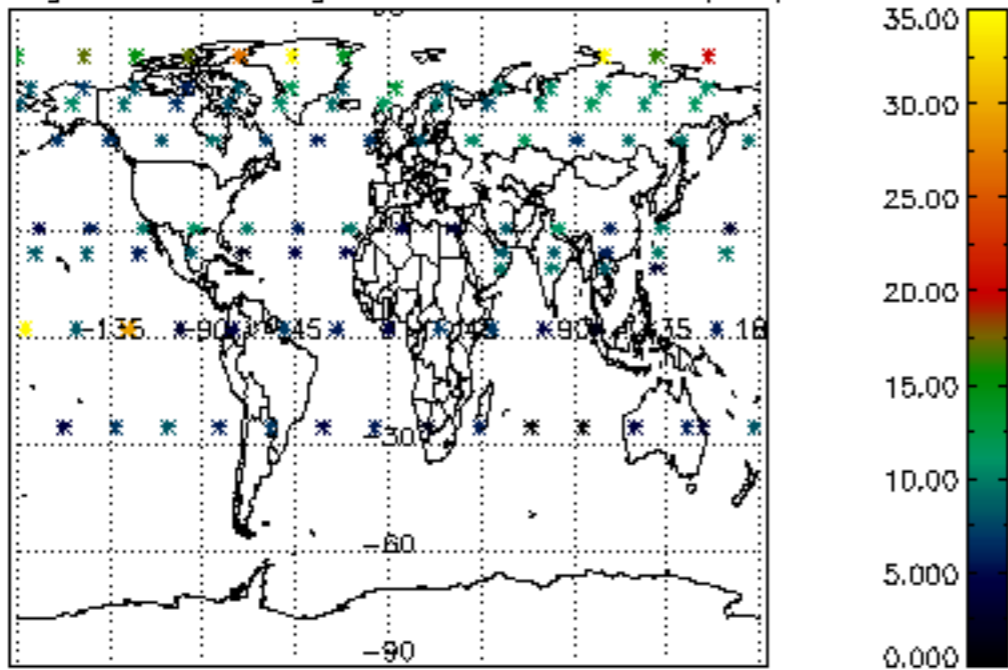
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

