

GOMOS Level 2 Daily Report

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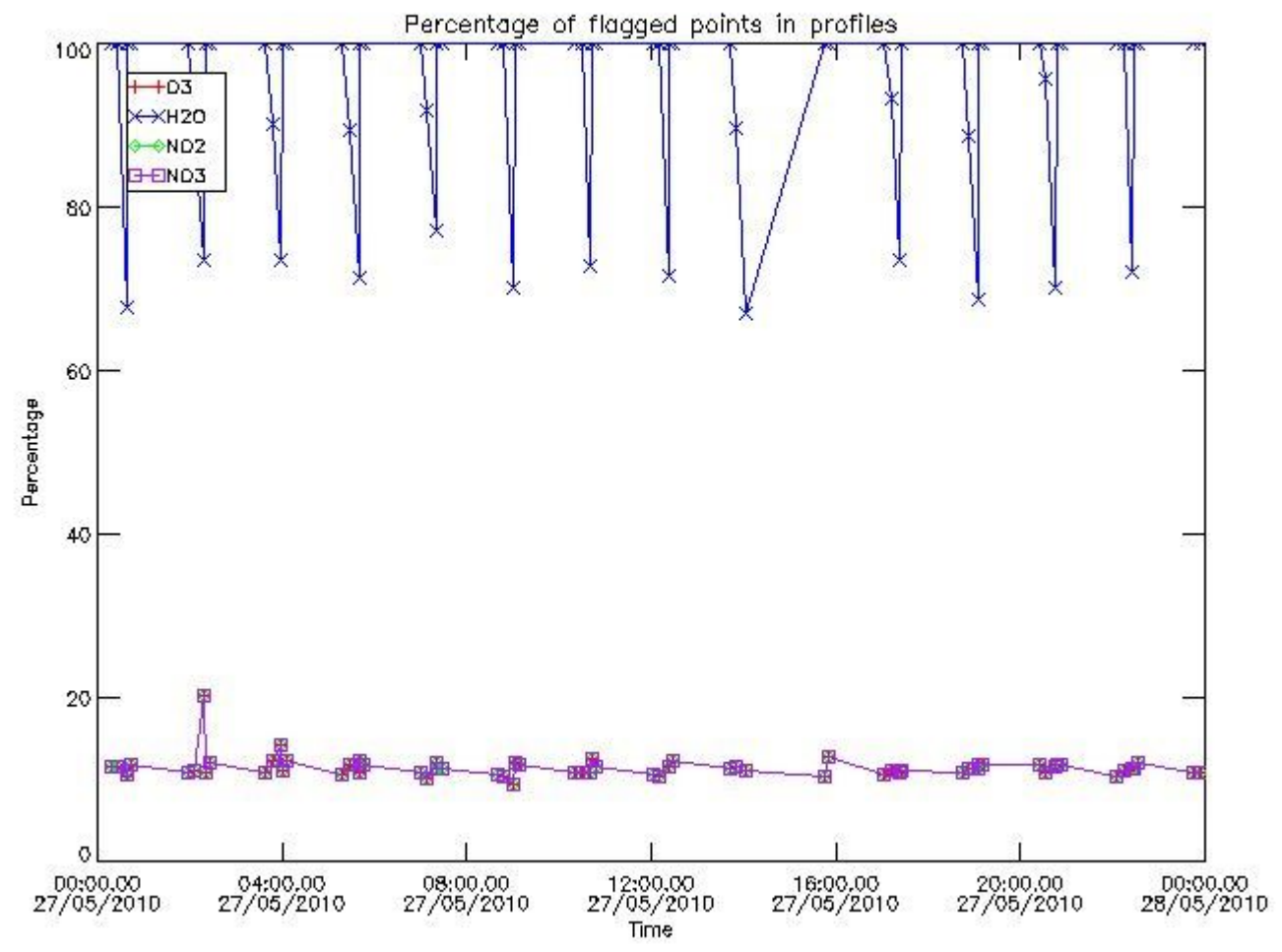
This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also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

Item	Value
Time of report generation	29APR2013 11:13:38
Data source version	GOMOS/6.01
Start time of products	27-05-2010 (27MAY2010 00:00:00)
Stop time of products	28-05-2010 (28MAY2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	269
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

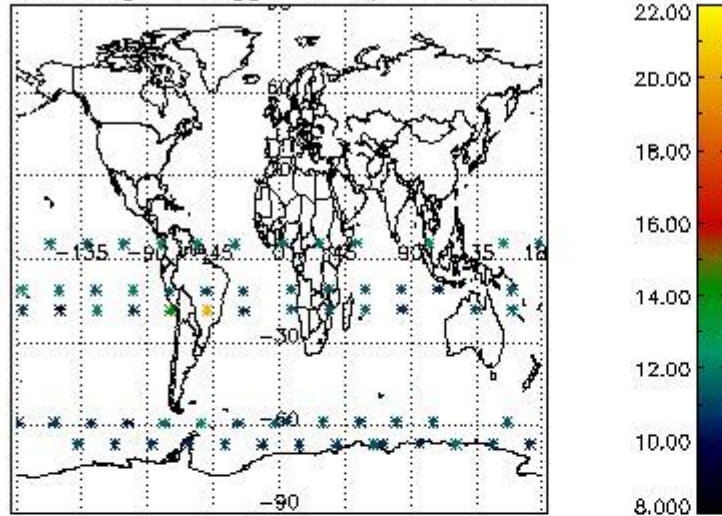
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20100527_000223_000000402089_00431_43070_1791.N1	27-MAY-2010 00:02:23	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	43070	No
2	GOM_NL__2PRFIN20100527_000954_000000412089_00431_43070_1792.N1	27-MAY-2010 00:09:54	Bright	41.000	53	43Bet And	2.0480	3300.0	82	43070	No
3	GOM_NL__2PRFIN20100527_001229_000000512089_00431_43070_1793.N1	27-MAY-2010 00:12:29	Twilight	50.500	58	21Alp And	2.0730	11000.	101	43070	No
4	GOM_NL__2PRFIN20100527_001706_000000492089_00431_43070_1794.N1	27-MAY-2010 00:17:06	Dark	48.500	140	88Gam Peg	2.8340	26000.	97	43070	No
5	GOM_NL__2PRFIN20100527_002559_000000452089_00431_43070_1795.N1	27-MAY-2010 00:25:59	Dark	44.500	52	16Bet Cet	2.0370	4500.0	89	43070	No
6	GOM_NL__2PRFIN20100527_003740_000000492089_00432_43071_1784.N1	27-MAY-2010 00:37:40	Dark	48.500	63	Bet Gru	2.1500	2800.0	97	43071	No
7	GOM_NL__2PRFIN20100527_003926_000000462089_00432_43071_1785.N1	27-MAY-2010 00:39:26	Dark	46.000	31	Alp Gru	1.7340	15200.	92	43071	No
8	GOM_NL__2PRFIN20100527_004440_000000432089_00432_43071_1786.N1	27-MAY-2010 00:44:40	Dark	43.000	45	Alp Pav	1.9400	26000.	86	43071	No
9	GOM_NL__2PRFIN20100527_005114_000000452089_00432_43071_1787.N1	27-MAY-2010 00:51:14	Straylight	45.000	141	Bet Ara	2.8400	4600.0	90	43071	No
10	GOM_NL__2PRFIN20100527_005405_000000492089_00432_43071_1788.N1	27-MAY-2010 00:54:05	Straylight	48.500	40	The Sco	1.8590	7100.0	97	43071	No
11	GOM_NL__2PRFIN20100527_005555_000000502089_00432_43071_1789.N1	27-MAY-2010 00:55:55	Straylight	50.000	25	35Lam Sco	1.6200	28000.	100	43071	No
12	GOM_NL__2PRFIN20100527_005751_000000462089_00432_43071_1790.N1	27-MAY-2010 00:57:51	Twilight	46.000	75	26Eps Sco	2.2910	4250.0	92	43071	No
13	GOM_NL__2PRFIN20100527_005958_000000432089_00432_43071_1791.N1	27-MAY-2010 00:59:58	Twilight	43.000	136	23Tau Sco	2.8220	30000.	86	43071	No
14	GOM_NL__2PRFIN20100527_010256_000000412089_00432_43071_1792.N1	27-MAY-2010 01:02:56	Bright	41.000	97	8Bet1Sco	2.5610	30000.	82	43071	No
15	GOM_NL__2PRFIN20100527_010623_000000382089_00432_43071_1793.N1	27-MAY-2010 01:06:23	Bright	37.500	104	27Bet Lib	2.6140	13100.	75	43071	No
16	GOM_NL__2PRFIN20100527_010801_000000422089_00432_43071_1794.N1	27-MAY-2010 01:08:01	Bright	42.000	120	1Del Oph	2.7340	3200.0	84	43071	No
17	GOM_NL__2PRFIN20100527_011103_000000392089_00432_43071_1795.N1	27-MAY-2010 01:11:03	Bright	39.000	102	24Alp Ser	2.6000	4250.0	78	43071	No
18	GOM_NL__2PRFIN20100527_011705_000000402089_00432_43071_1796.N1	27-MAY-2010 01:17:05	Bright	40.000	67	5Alp CrB	2.2210	11000.	80	43071	No
19	GOM_NL__2PRFIN20100527_012752_000000392089_00432_43071_1797.N1	27-MAY-2010 01:27:52	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	43071	No
20	GOM_NL__2PRFIN20100527_013013_000000382089_00432_43071_1798.N1	27-MAY-2010 01:30:13	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	43071	No
21	GOM_NL__2PRFIN20100527_014259_000000382089_00432_43071_1799.N1	27-MAY-2010 01:42:59	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	43071	No
22	GOM_NL__2PRFIN20100527_015030_000000422089_00432_43071_1800.N1	27-MAY-2010 01:50:30	Bright	41.500	53	43Bet And	2.0480	3300.0	83	43071	No
23	GOM_NL__2PRFIN20100527_015305_000000522089_00432_43071_1801.N1	27-MAY-2010 01:53:05	Twilight	52.000	58	21Alp And	2.0730	11000.	104	43071	No
24	GOM_NL__2PRFIN20100527_015743_000000472089_00432_43071_1802.N1	27-MAY-2010 01:57:43	Dark	46.500	140	88Gam Peg	2.8340	26000.	93	43071	No
25	GOM_NL__2PRFIN20100527_020635_000000462089_00432_43071_1803.N1	27-MAY-2010 02:06:35	Dark	45.500	52	16Bet Cet	2.0370	4500.0	91	43071	No
26	GOM_NL__2PRFIN20100527_021817_000000552089_00433_43072_1792.N1	27-MAY-2010 02:18:17	Dark	55.000	63	Bet Gru	2.1500	2800.0	110	43072	No
27	GOM_NL__2PRFIN20100527_022002_000000472089_00433_43072_1793.N1	27-MAY-2010 02:20:02	Dark	46.500	31	Alp Gru	1.7340	15200.	93	43072	No
28	GOM_NL__2PRFIN20100527_022517_000000422089_00433_43072_1794.N1	27-MAY-2010 02:25:17	Dark	42.000	45	Alp Pav	1.9400	26000.	84	43072	No
29	GOM_NL__2PRFIN20100527_023151_000000402089_00433_43072_1795.N1	27-MAY-2010 02:31:51	Straylight	39.500	141	Bet Ara	2.8400	4600.0	79	43072	No
30	GOM_NL__2PRFIN20100527_023442_000000472089_00433_43072_1796.N1	27-MAY-2010 02:34:42	Straylight	47.000	40	The Sco	1.8590	7100.0	94	43072	No
31	GOM_NL__2PRFIN20100527_023631_000000482089_00433_43072_1797.N1	27-MAY-2010 02:36:31	Straylight	47.500	25	35Lam Sco	1.6200	28000.	95	43072	No
32	GOM_NL__2PRFIN20100527_023827_000000462089_00433_43072_1798.N1	27-MAY-2010 02:38:27	Twilight	45.500	75	26Eps Sco	2.2910	4250.0	91	43072	No
33	GOM_NL__2PRFIN20100527_024034_000000452089_00433_43072_1799.N1	27-MAY-2010 02:40:34	Twilight	45.000	136	23Tau Sco	2.8220	30000.	90	43072	No
34	GOM_NL__2PRFIN20100527_024333_000000402089_00433_43072_1800.N1	27-MAY-2010 02:43:33	Bright	39.500	97	8Bet1Sco	2.5610	30000.	79	43072	No
35	GOM_NL__2PRFIN20100527_024621_000000452089_00433_43072_1801.N1	27-MAY-2010 02:46:21	Bright	44.500	98	13Zet Oph	2.5710	30000.	89	43072	No
36	GOM_NL__2PRFIN20100527_024837_000000422089_00433_43072_1802.N1	27-MAY-2010 02:48:37	Bright	42.000	120	1Del Oph	2.7340	3200.0	84	43072	No
37	GOM_NL__2PRFIN20100527_025139_000000392089_00433_43072_1803.N1	27-MAY-2010 02:51:39	Bright	39.000	102	24Alp Ser	2.6000	4250.0	78	43072	No
38	GOM_NL__2PRFIN20100527_025741_000000422089_00433_43072_1804.N1	27-MAY-2010 02:57:41	Bright	41.500	67	5Alp CrB	2.2210	11000.	83	43072	No
39	GOM_NL__2PRFIN20100527_030828_000000382089_00433_43072_1805.N1	27-MAY-2010 03:08:28	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	43072	No
40	GOM_NL__2PRFIN20100527_031049_000000372089_00433_43072_1806.N1	27-MAY-2010 03:10:49	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	43072	No
41	GOM_NL__2PRFIN20100527_032334_000000542089_00433_43072_1807.N1	27-MAY-2010 03:23:34	Bright	54.000	76	27Gam Cas	2.3000	30000.	108	43072	No
42	GOM_NL__2PRFIN20100527_033107_000000412089_00433_43072_1808.N1	27-MAY-2010 03:31:07	Bright	41.000	53	43Bet And	2.0480	3300.0	82	43072	No

3.1 Plot quality information per product (time dependant)

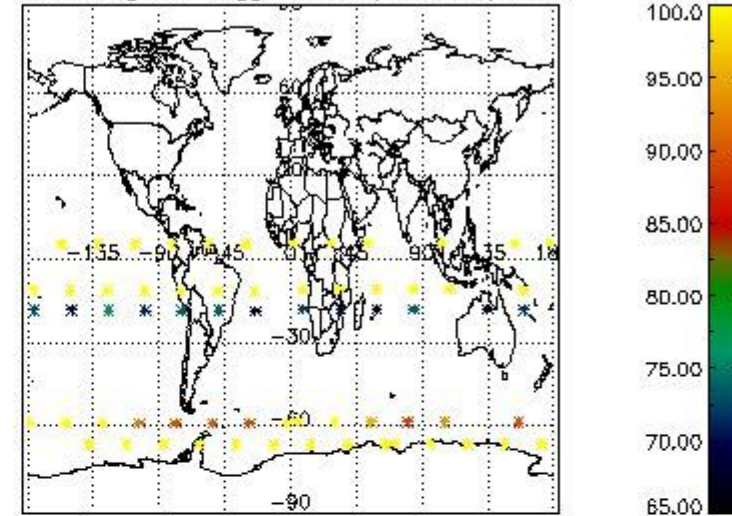


3.2 Plot quality information per product (world map)

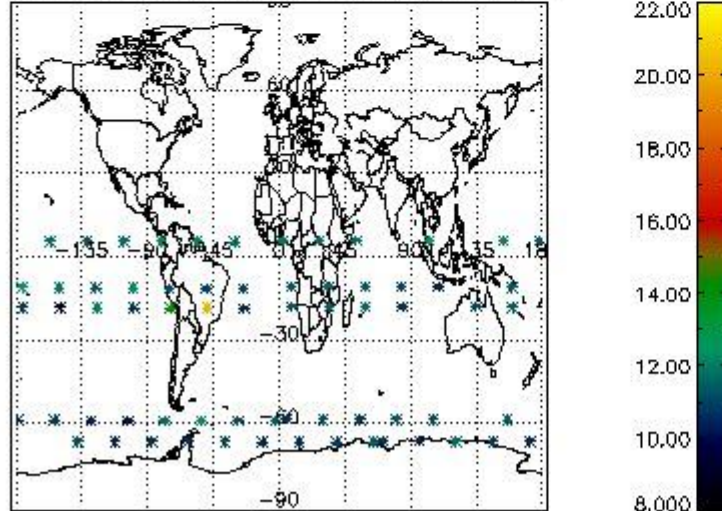
Percentage of flagged data per O3 profile



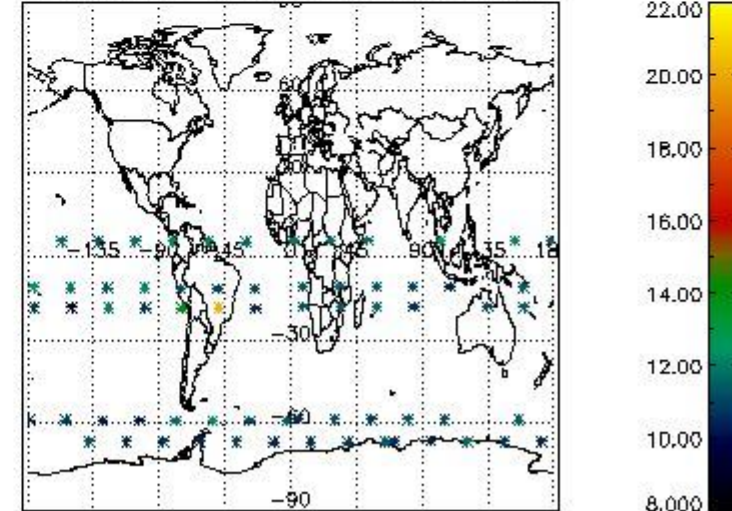
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

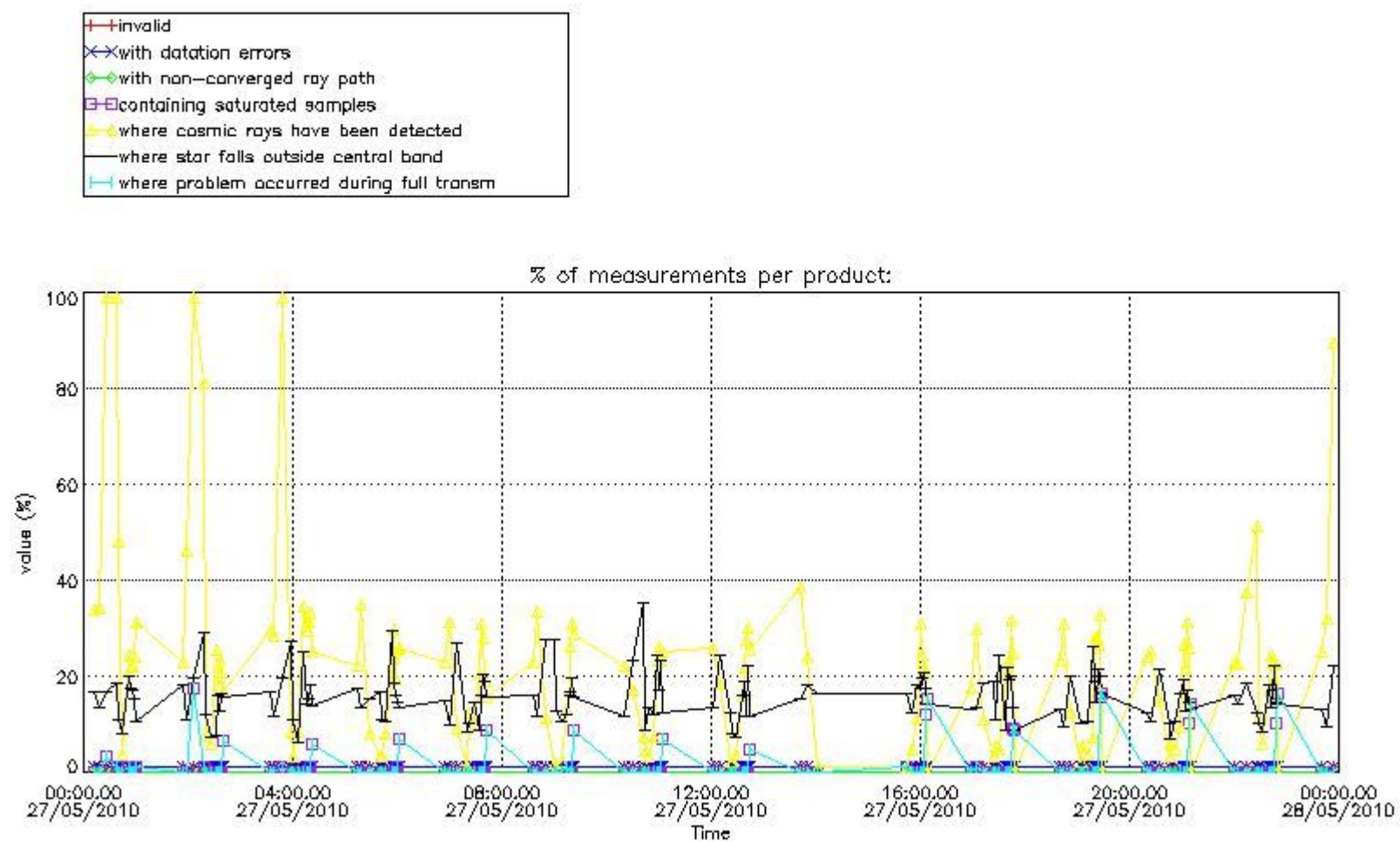


4. Level 1 quality information per product

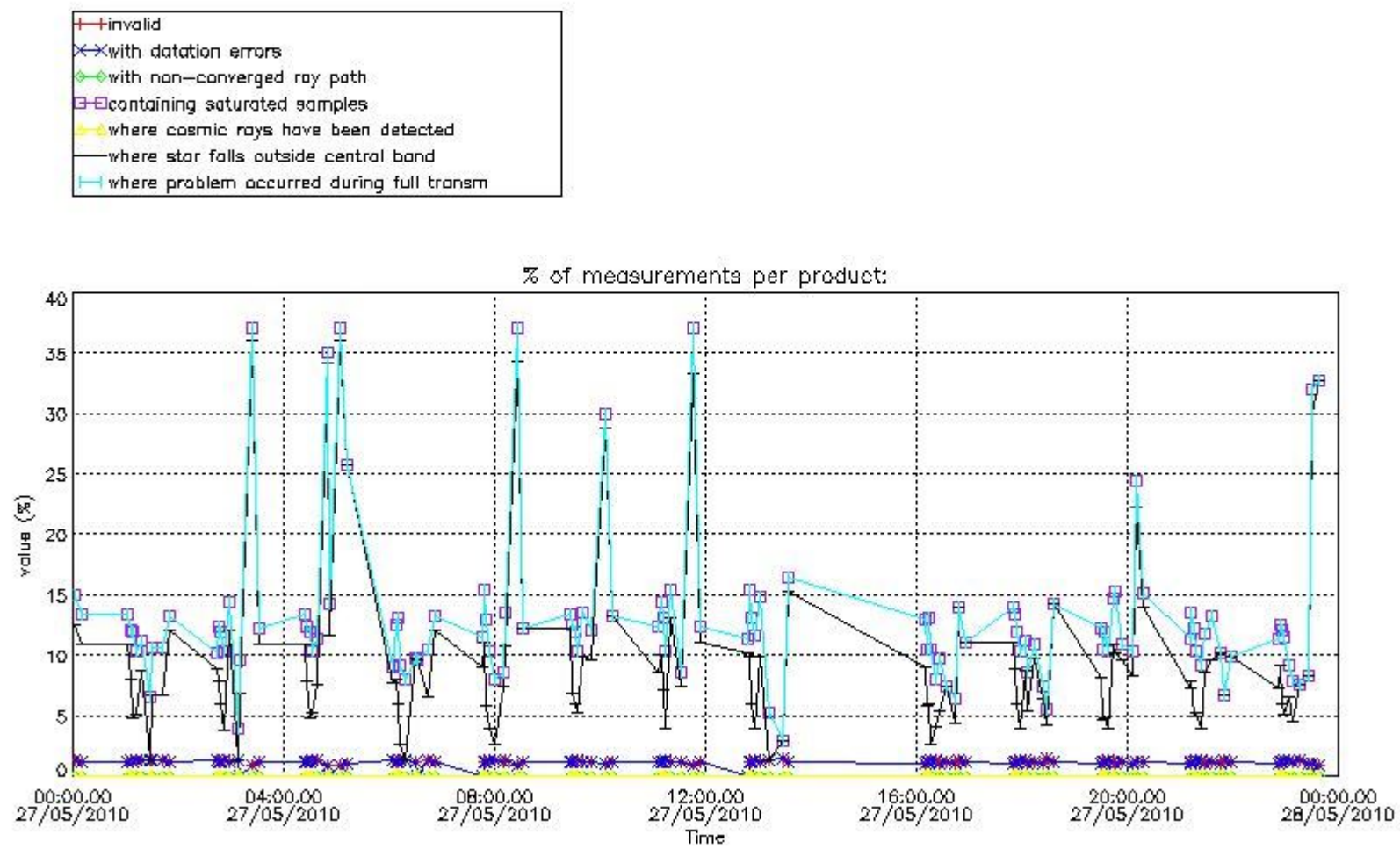
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



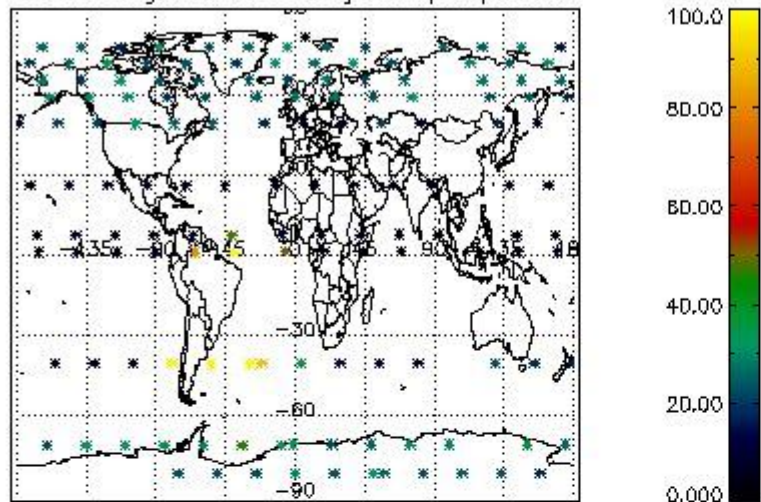
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



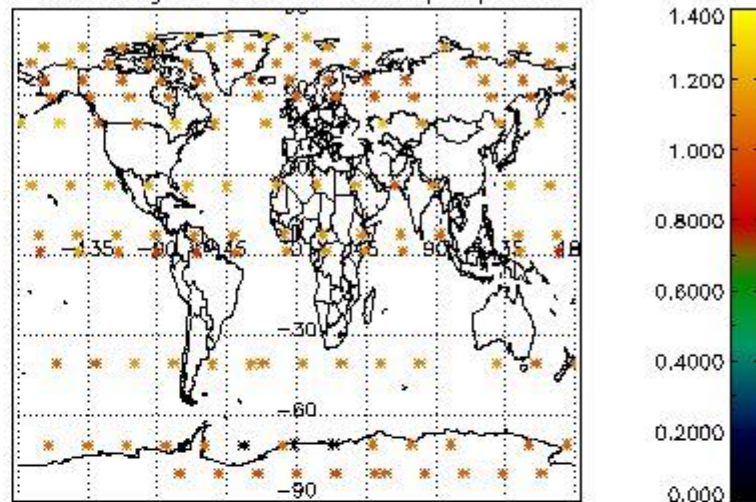
4.2 Plot quality information per product coming from level 1b processing (world map)

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

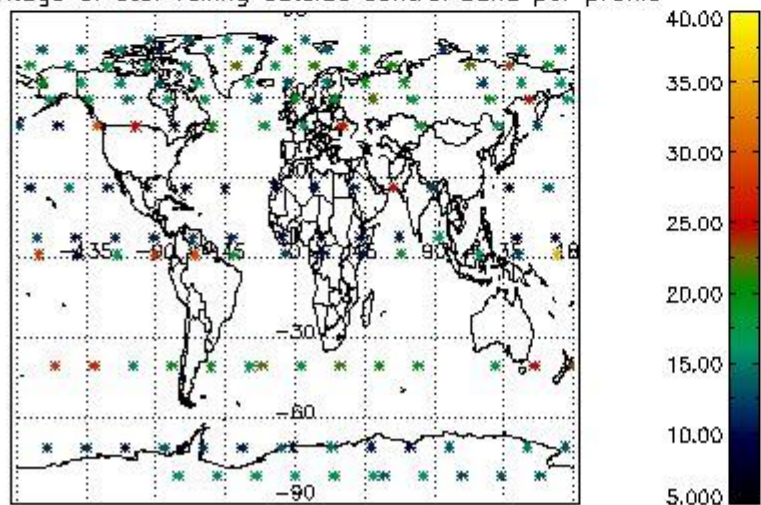
Percentage of cosmic ray hits per profile



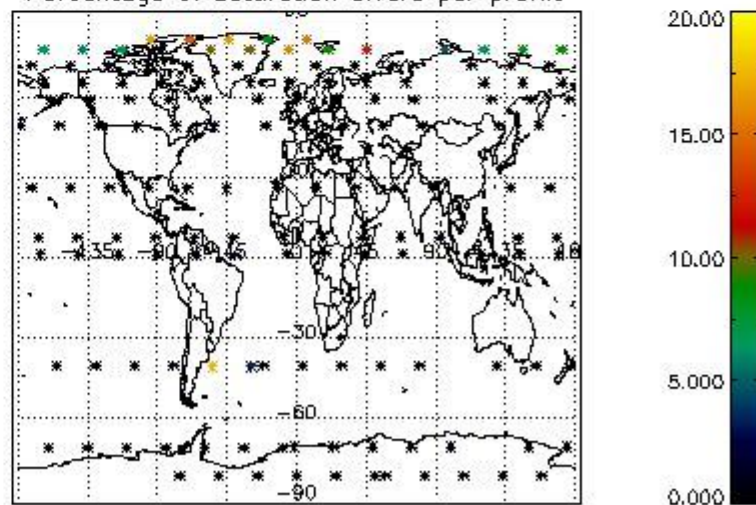
Percentage of datation errors per profile



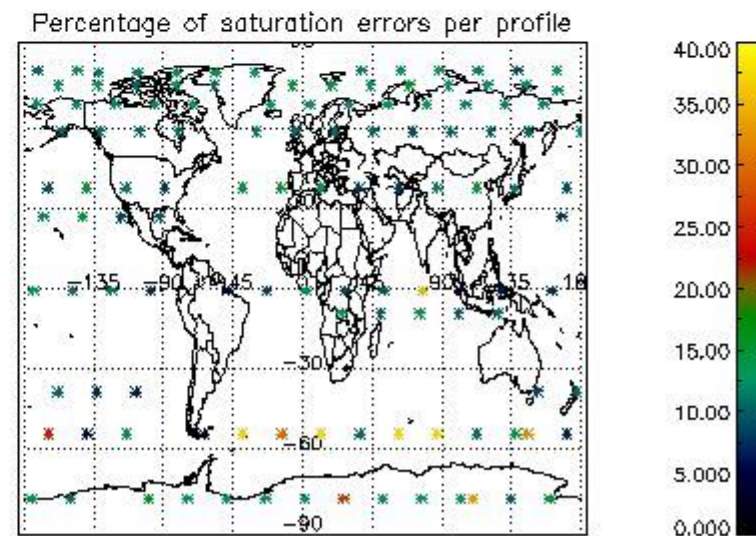
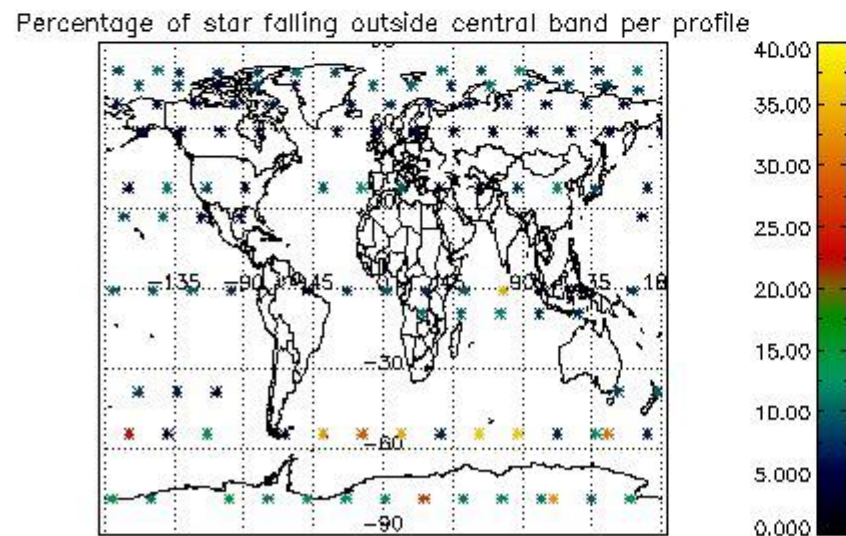
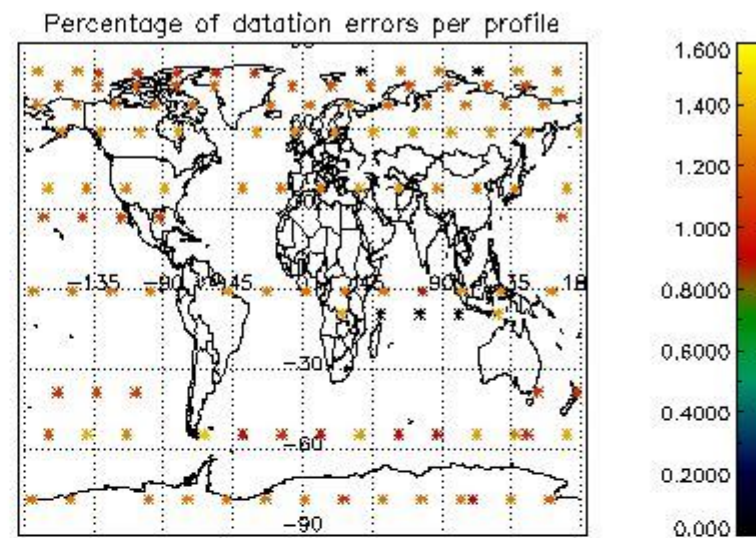
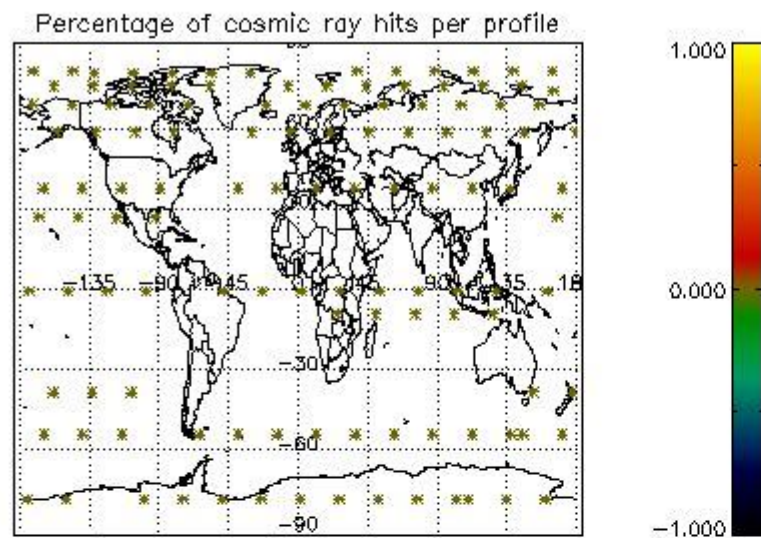
Percentage of star falling outside central band per profile



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

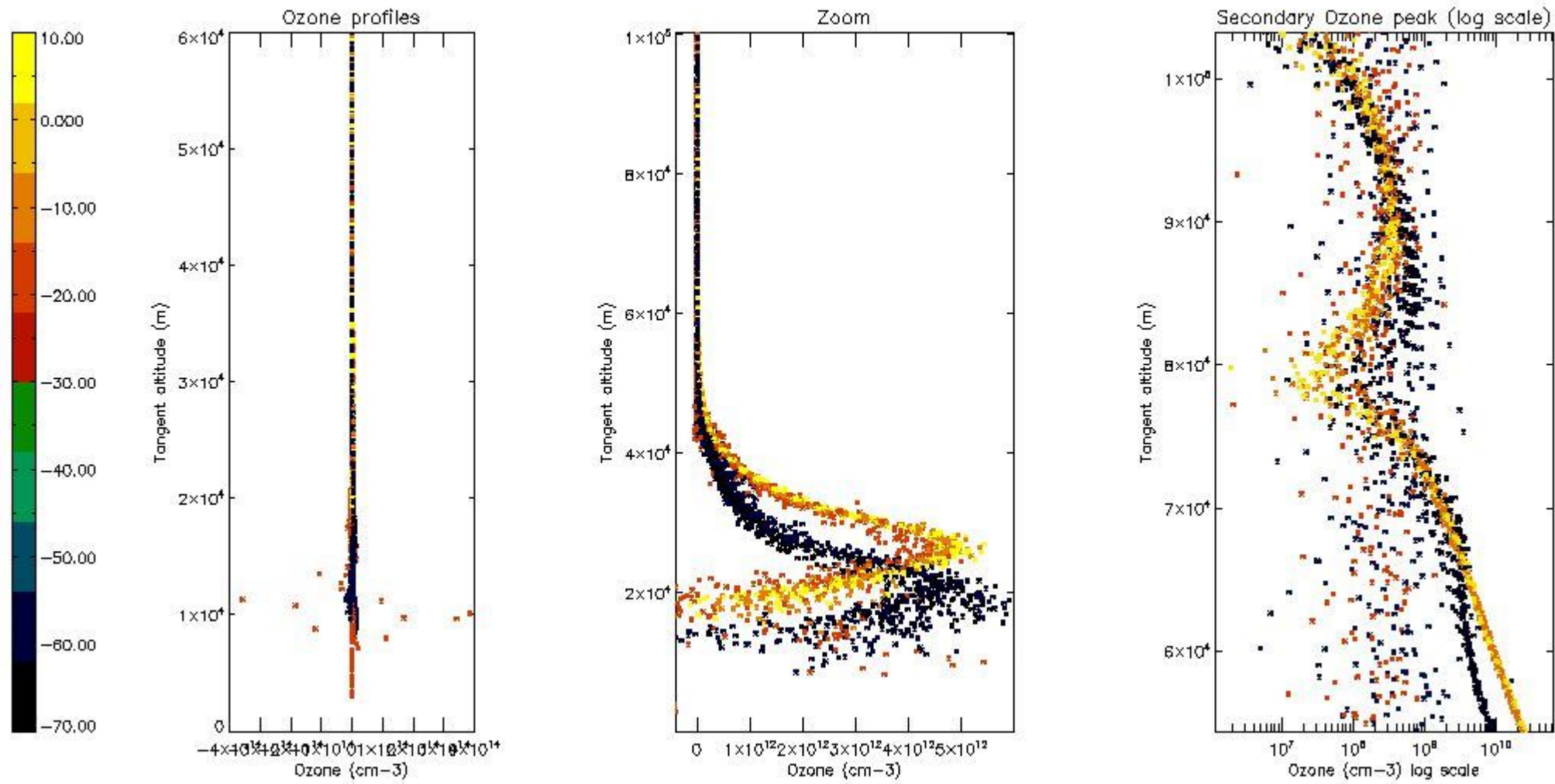
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	26
STD < 20	13

STD < 10	10
STD < 5	7

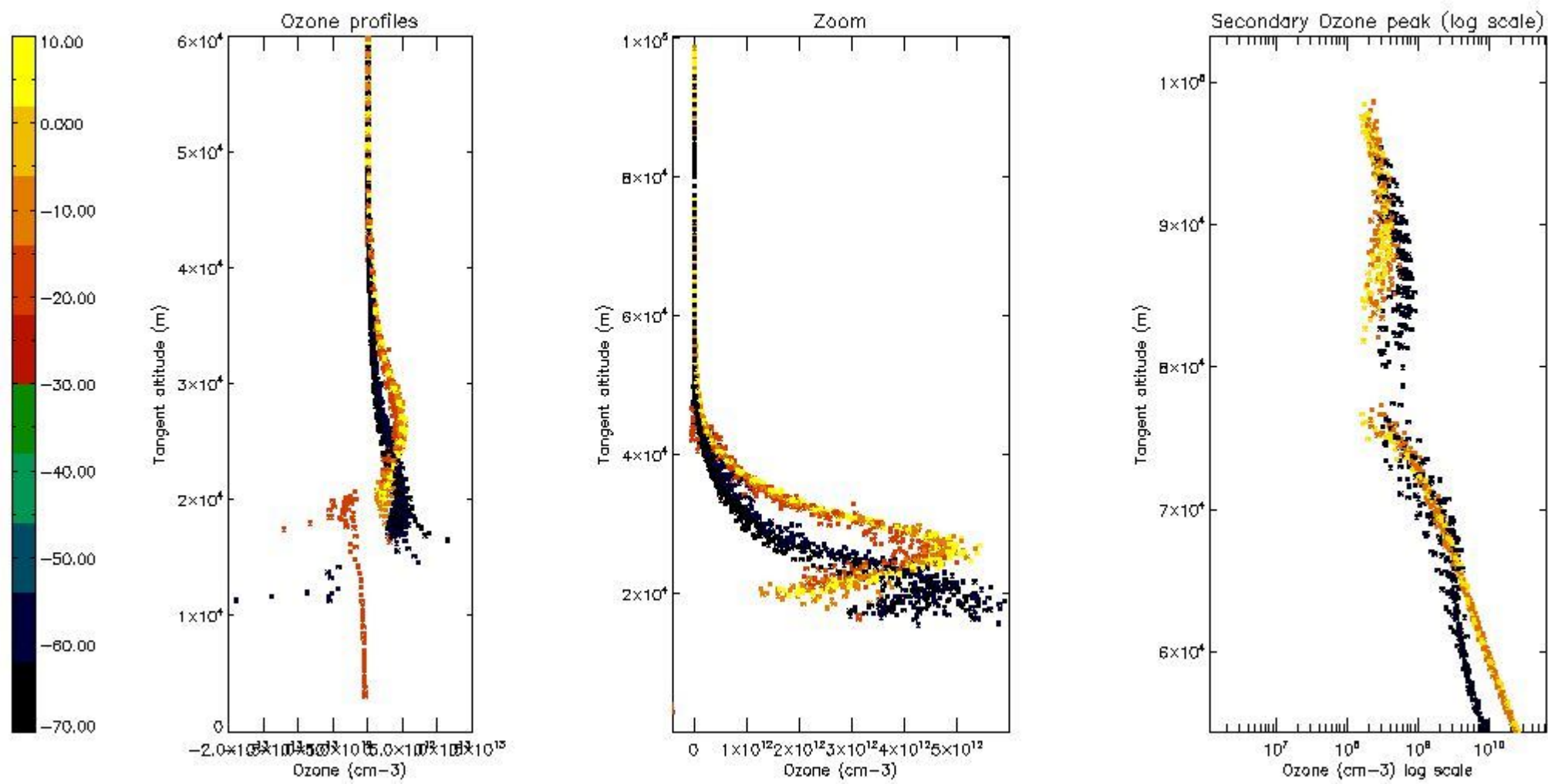
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



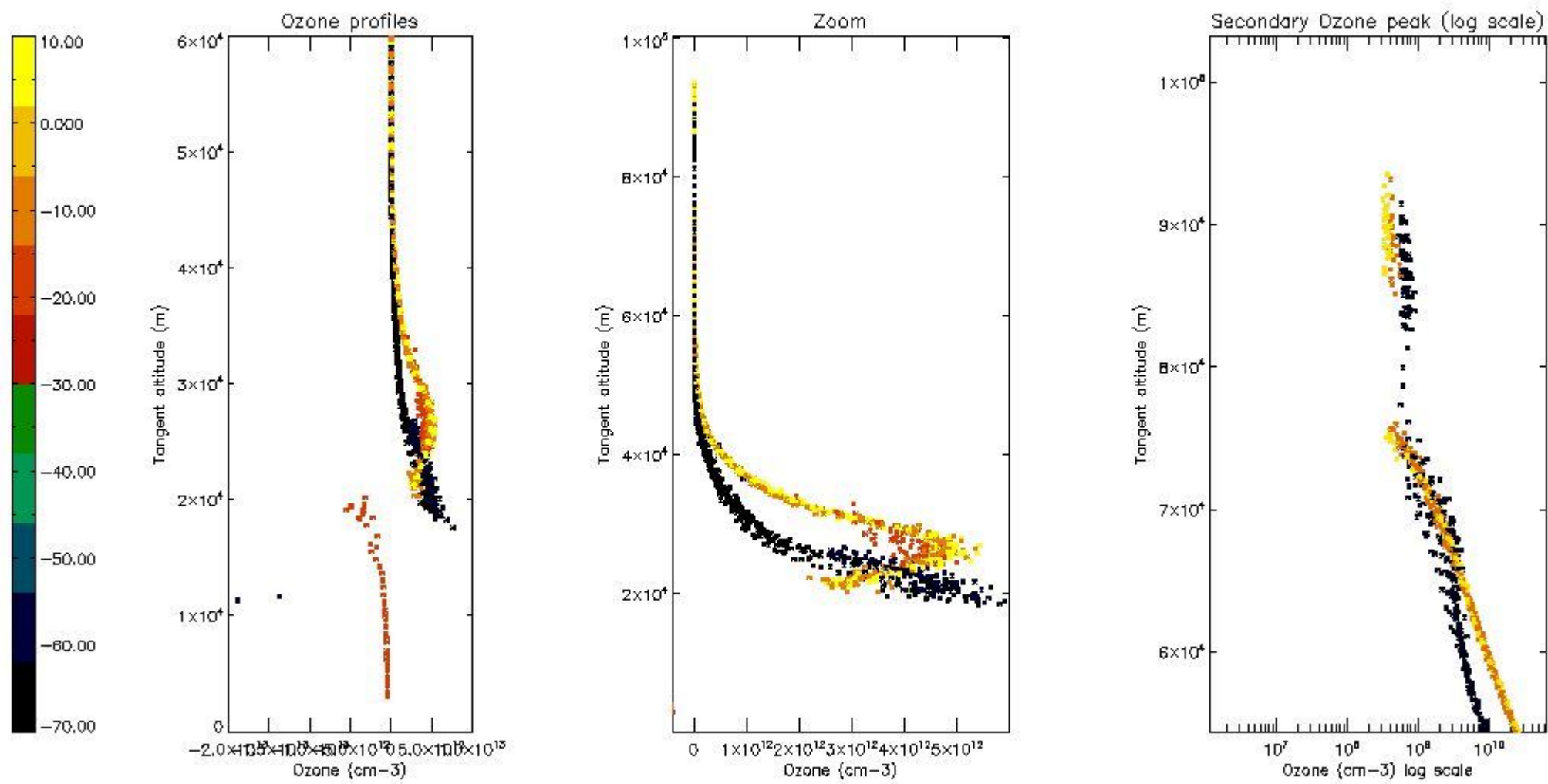
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



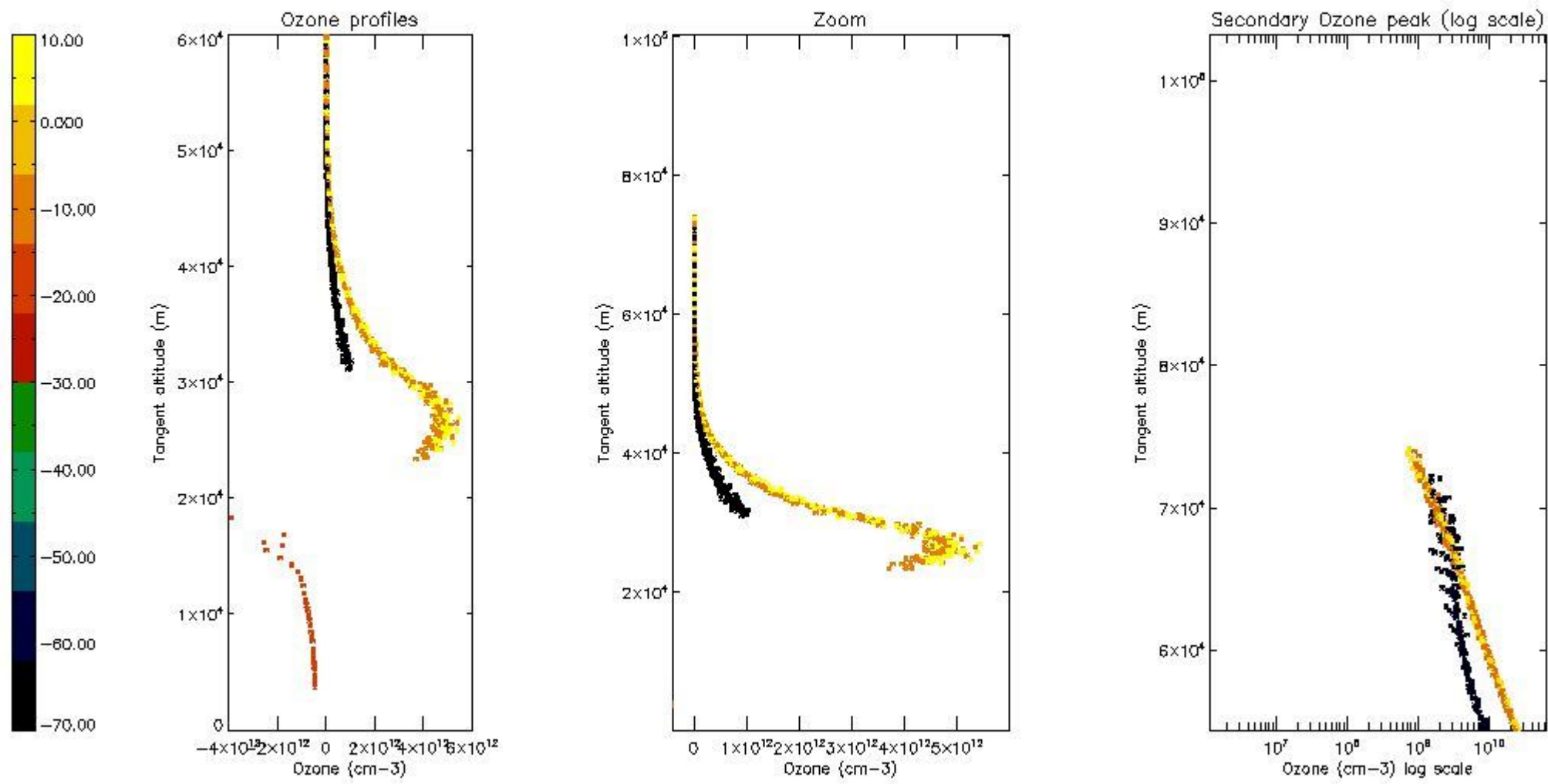
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



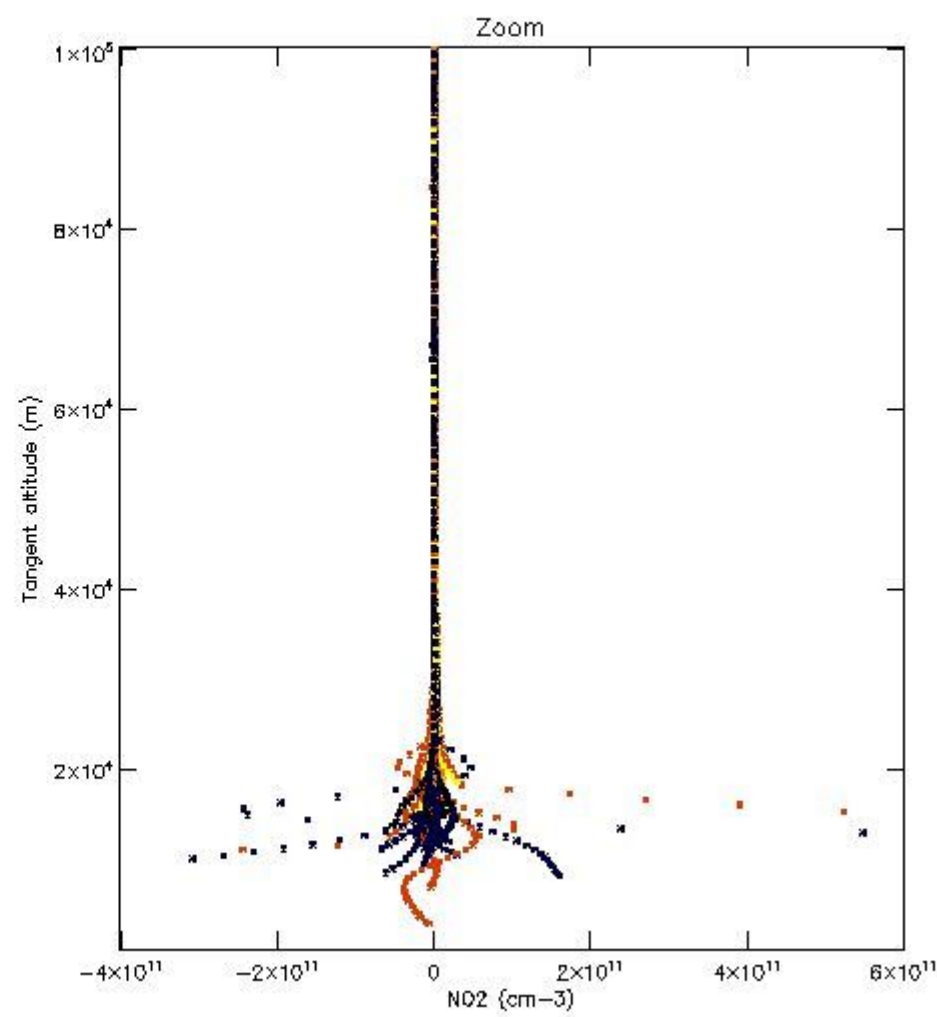
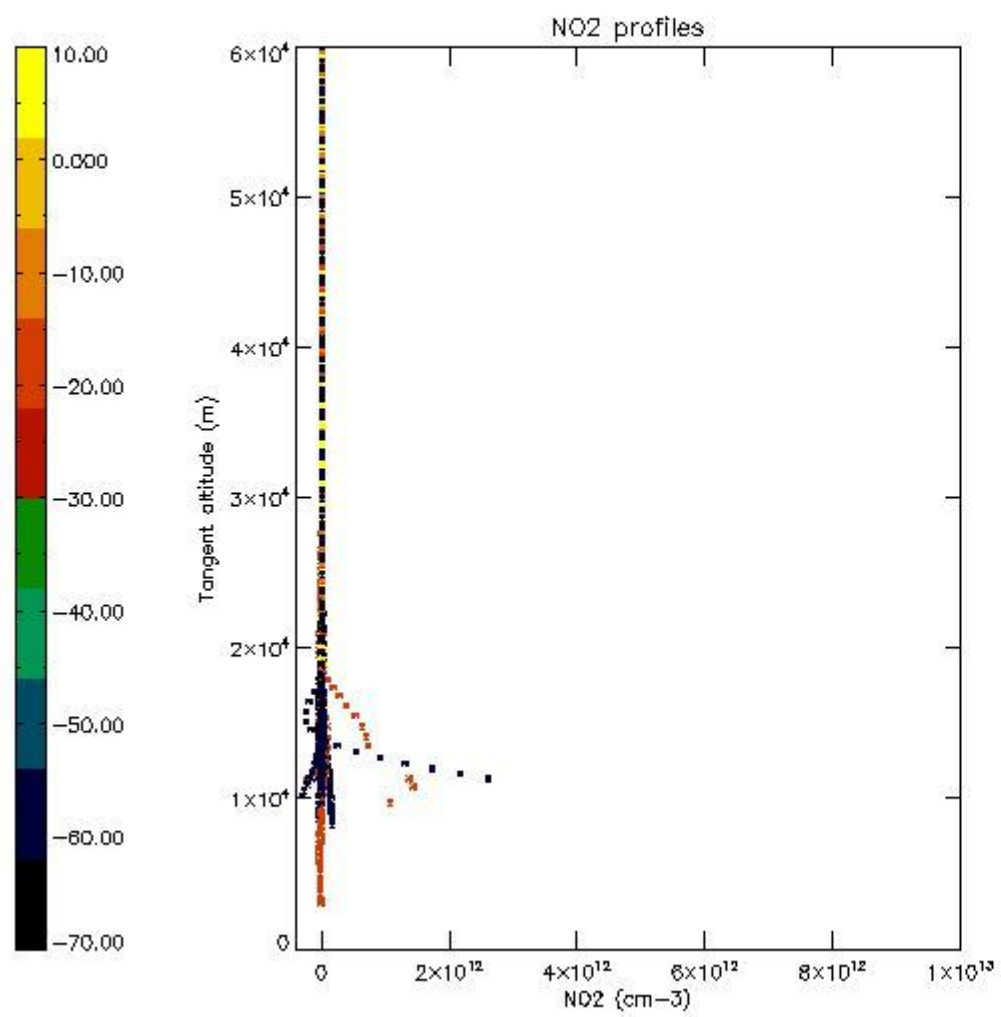
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



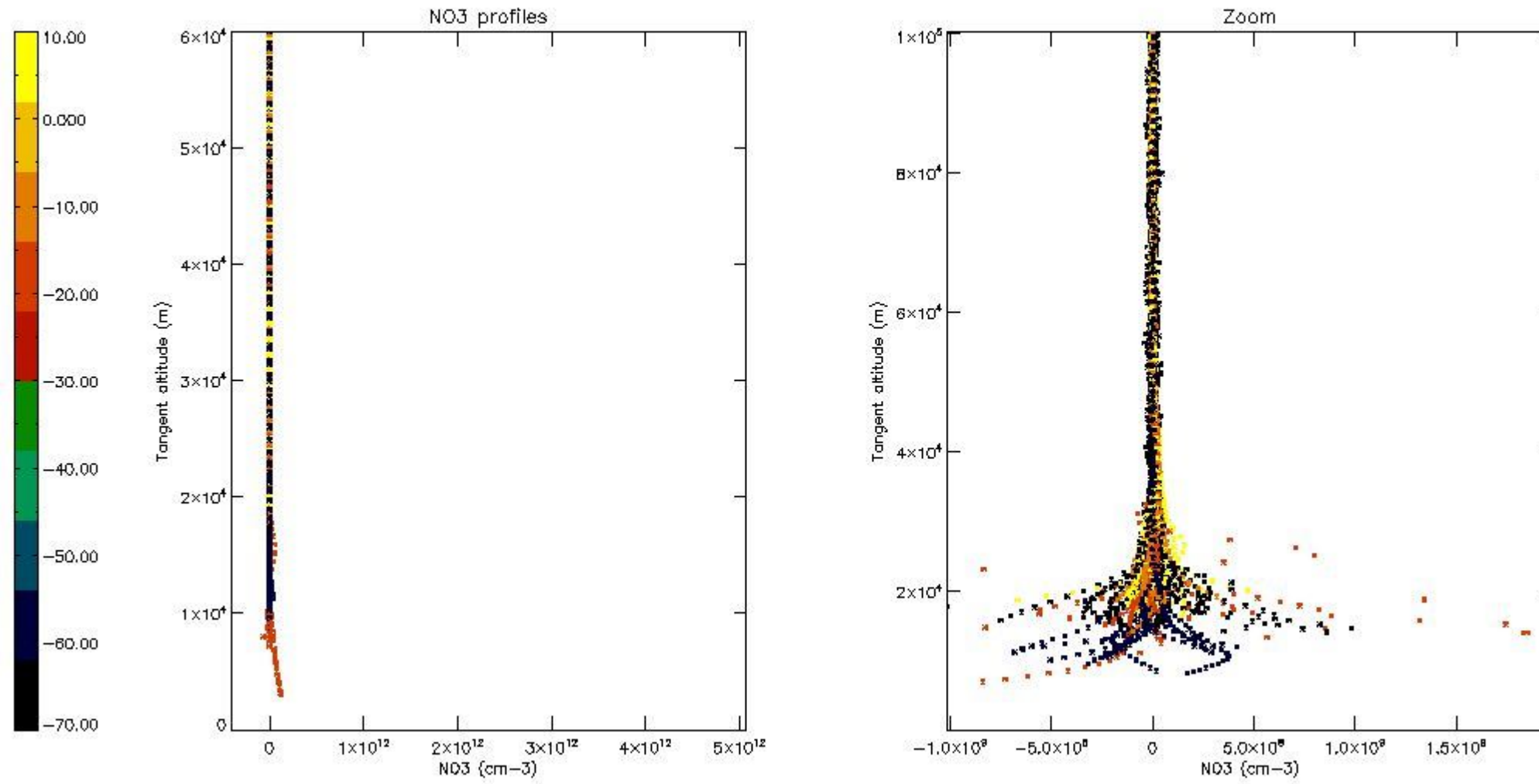
5.6 Plot NO₂ profiles for all STD (dark without errors)

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	27-MAY-2010 00:02:23
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	27-MAY-2010 00:02:23
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	27-MAY-2010 00:02:23

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

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

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

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

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[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](#)

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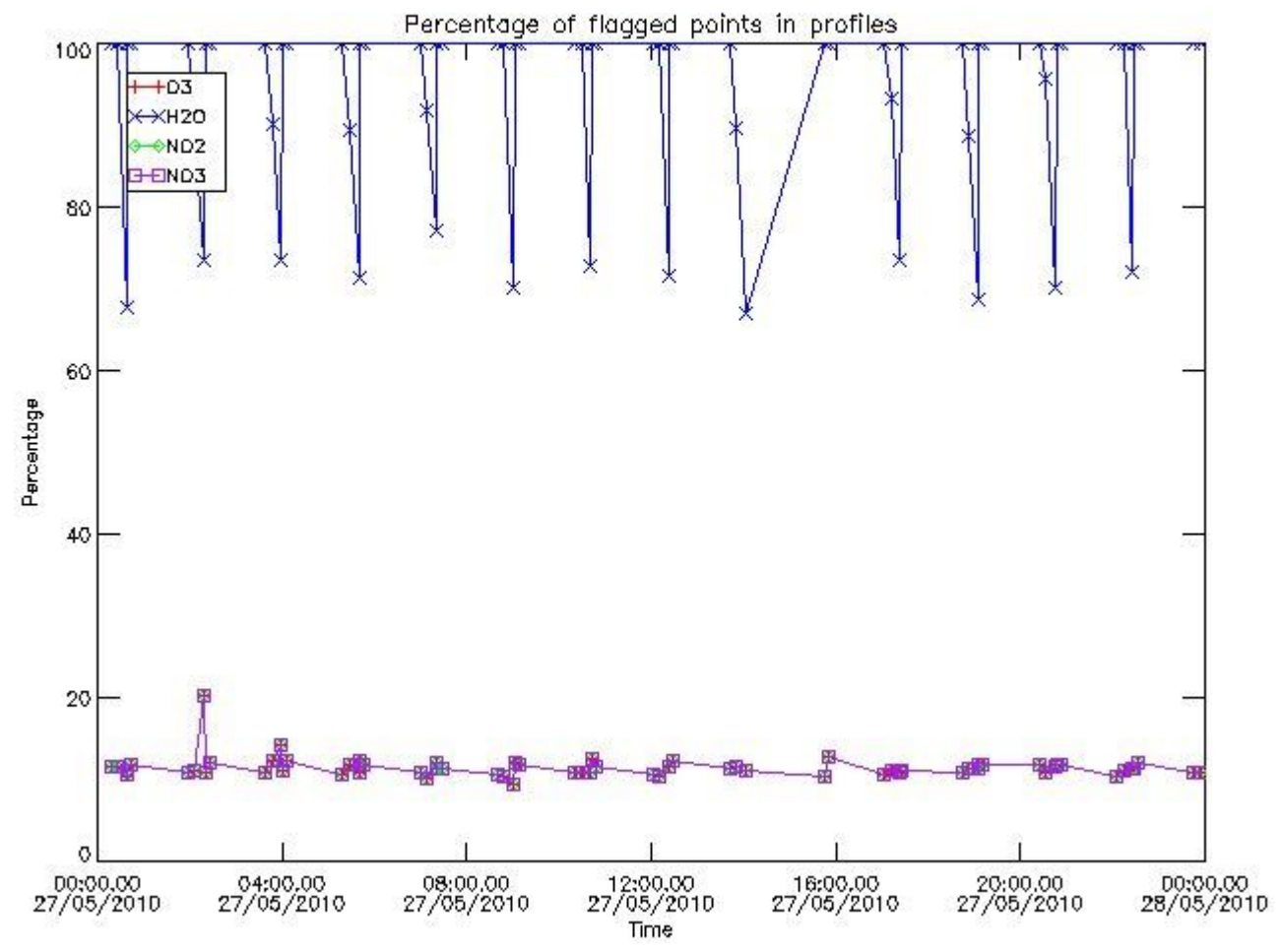
This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also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

Item	Value
Time of report generation	29APR2013 11:13:38
Data source version	GOMOS/6.01
Start time of products	27-05-2010 (27MAY2010 00:00:00)
Stop time of products	28-05-2010 (28MAY2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	269
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

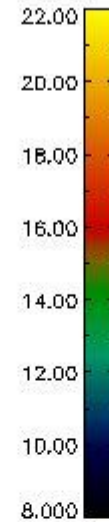
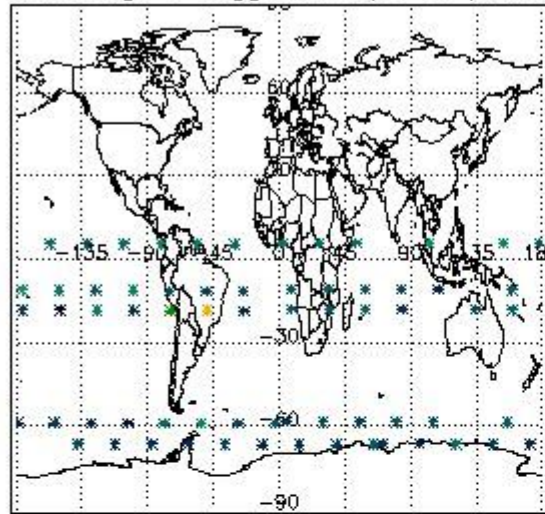
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20100527_000223_000000402089_00431_43070_1791.N1	27-MAY-2010 00:02:23	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	43070	No
2	GOM_NL__2PRFIN20100527_000954_000000412089_00431_43070_1792.N1	27-MAY-2010 00:09:54	Bright	41.000	53	43Bet And	2.0480	3300.0	82	43070	No
3	GOM_NL__2PRFIN20100527_001229_000000512089_00431_43070_1793.N1	27-MAY-2010 00:12:29	Twilight	50.500	58	21Alp And	2.0730	11000.	101	43070	No
4	GOM_NL__2PRFIN20100527_001706_000000492089_00431_43070_1794.N1	27-MAY-2010 00:17:06	Dark	48.500	140	88Gam Peg	2.8340	26000.	97	43070	No
5	GOM_NL__2PRFIN20100527_002559_000000452089_00431_43070_1795.N1	27-MAY-2010 00:25:59	Dark	44.500	52	16Bet Cet	2.0370	4500.0	89	43070	No
6	GOM_NL__2PRFIN20100527_003740_000000492089_00432_43071_1784.N1	27-MAY-2010 00:37:40	Dark	48.500	63	Bet Gru	2.1500	2800.0	97	43071	No
7	GOM_NL__2PRFIN20100527_003926_000000462089_00432_43071_1785.N1	27-MAY-2010 00:39:26	Dark	46.000	31	Alp Gru	1.7340	15200.	92	43071	No
8	GOM_NL__2PRFIN20100527_004440_000000432089_00432_43071_1786.N1	27-MAY-2010 00:44:40	Dark	43.000	45	Alp Pav	1.9400	26000.	86	43071	No
9	GOM_NL__2PRFIN20100527_005114_000000452089_00432_43071_1787.N1	27-MAY-2010 00:51:14	Straylight	45.000	141	Bet Ara	2.8400	4600.0	90	43071	No
10	GOM_NL__2PRFIN20100527_005405_000000492089_00432_43071_1788.N1	27-MAY-2010 00:54:05	Straylight	48.500	40	The Sco	1.8590	7100.0	97	43071	No
11	GOM_NL__2PRFIN20100527_005555_000000502089_00432_43071_1789.N1	27-MAY-2010 00:55:55	Straylight	50.000	25	35Lam Sco	1.6200	28000.	100	43071	No
12	GOM_NL__2PRFIN20100527_005751_000000462089_00432_43071_1790.N1	27-MAY-2010 00:57:51	Twilight	46.000	75	26Eps Sco	2.2910	4250.0	92	43071	No
13	GOM_NL__2PRFIN20100527_005958_000000432089_00432_43071_1791.N1	27-MAY-2010 00:59:58	Twilight	43.000	136	23Tau Sco	2.8220	30000.	86	43071	No
14	GOM_NL__2PRFIN20100527_010256_000000412089_00432_43071_1792.N1	27-MAY-2010 01:02:56	Bright	41.000	97	8Bet1Sco	2.5610	30000.	82	43071	No
15	GOM_NL__2PRFIN20100527_010623_000000382089_00432_43071_1793.N1	27-MAY-2010 01:06:23	Bright	37.500	104	27Bet Lib	2.6140	13100.	75	43071	No
16	GOM_NL__2PRFIN20100527_010801_000000422089_00432_43071_1794.N1	27-MAY-2010 01:08:01	Bright	42.000	120	1Del Oph	2.7340	3200.0	84	43071	No
17	GOM_NL__2PRFIN20100527_011103_000000392089_00432_43071_1795.N1	27-MAY-2010 01:11:03	Bright	39.000	102	24Alp Ser	2.6000	4250.0	78	43071	No
18	GOM_NL__2PRFIN20100527_011705_000000402089_00432_43071_1796.N1	27-MAY-2010 01:17:05	Bright	40.000	67	5Alp CrB	2.2210	11000.	80	43071	No
19	GOM_NL__2PRFIN20100527_012752_000000392089_00432_43071_1797.N1	27-MAY-2010 01:27:52	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	43071	No
20	GOM_NL__2PRFIN20100527_013013_000000382089_00432_43071_1798.N1	27-MAY-2010 01:30:13	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	43071	No
21	GOM_NL__2PRFIN20100527_014259_000000382089_00432_43071_1799.N1	27-MAY-2010 01:42:59	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	43071	No
22	GOM_NL__2PRFIN20100527_015030_000000422089_00432_43071_1800.N1	27-MAY-2010 01:50:30	Bright	41.500	53	43Bet And	2.0480	3300.0	83	43071	No
23	GOM_NL__2PRFIN20100527_015305_000000522089_00432_43071_1801.N1	27-MAY-2010 01:53:05	Twilight	52.000	58	21Alp And	2.0730	11000.	104	43071	No
24	GOM_NL__2PRFIN20100527_015743_000000472089_00432_43071_1802.N1	27-MAY-2010 01:57:43	Dark	46.500	140	88Gam Peg	2.8340	26000.	93	43071	No
25	GOM_NL__2PRFIN20100527_020635_000000462089_00432_43071_1803.N1	27-MAY-2010 02:06:35	Dark	45.500	52	16Bet Cet	2.0370	4500.0	91	43071	No
26	GOM_NL__2PRFIN20100527_021817_000000552089_00433_43072_1792.N1	27-MAY-2010 02:18:17	Dark	55.000	63	Bet Gru	2.1500	2800.0	110	43072	No
27	GOM_NL__2PRFIN20100527_022002_000000472089_00433_43072_1793.N1	27-MAY-2010 02:20:02	Dark	46.500	31	Alp Gru	1.7340	15200.	93	43072	No
28	GOM_NL__2PRFIN20100527_022517_000000422089_00433_43072_1794.N1	27-MAY-2010 02:25:17	Dark	42.000	45	Alp Pav	1.9400	26000.	84	43072	No
29	GOM_NL__2PRFIN20100527_023151_000000402089_00433_43072_1795.N1	27-MAY-2010 02:31:51	Straylight	39.500	141	Bet Ara	2.8400	4600.0	79	43072	No
30	GOM_NL__2PRFIN20100527_023442_000000472089_00433_43072_1796.N1	27-MAY-2010 02:34:42	Straylight	47.000	40	The Sco	1.8590	7100.0	94	43072	No
31	GOM_NL__2PRFIN20100527_023631_000000482089_00433_43072_1797.N1	27-MAY-2010 02:36:31	Straylight	47.500	25	35Lam Sco	1.6200	28000.	95	43072	No
32	GOM_NL__2PRFIN20100527_023827_000000462089_00433_43072_1798.N1	27-MAY-2010 02:38:27	Twilight	45.500	75	26Eps Sco	2.2910	4250.0	91	43072	No
33	GOM_NL__2PRFIN20100527_024034_000000452089_00433_43072_1799.N1	27-MAY-2010 02:40:34	Twilight	45.000	136	23Tau Sco	2.8220	30000.	90	43072	No
34	GOM_NL__2PRFIN20100527_024333_000000402089_00433_43072_1800.N1	27-MAY-2010 02:43:33	Bright	39.500	97	8Bet1Sco	2.5610	30000.	79	43072	No
35	GOM_NL__2PRFIN20100527_024621_000000452089_00433_43072_1801.N1	27-MAY-2010 02:46:21	Bright	44.500	98	13Zet Oph	2.5710	30000.	89	43072	No
36	GOM_NL__2PRFIN20100527_024837_000000422089_00433_43072_1802.N1	27-MAY-2010 02:48:37	Bright	42.000	120	1Del Oph	2.7340	3200.0	84	43072	No
37	GOM_NL__2PRFIN20100527_025139_000000392089_00433_43072_1803.N1	27-MAY-2010 02:51:39	Bright	39.000	102	24Alp Ser	2.6000	4250.0	78	43072	No
38	GOM_NL__2PRFIN20100527_025741_000000422089_00433_43072_1804.N1	27-MAY-2010 02:57:41	Bright	41.500	67	5Alp CrB	2.2210	11000.	83	43072	No
39	GOM_NL__2PRFIN20100527_030828_000000382089_00433_43072_1805.N1	27-MAY-2010 03:08:28	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	43072	No
40	GOM_NL__2PRFIN20100527_031049_000000372089_00433_43072_1806.N1	27-MAY-2010 03:10:49	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	43072	No
41	GOM_NL__2PRFIN20100527_032334_000000542089_00433_43072_1807.N1	27-MAY-2010 03:23:34	Bright	54.000	76	27Gam Cas	2.3000	30000.	108	43072	No
42	GOM_NL__2PRFIN20100527_033107_000000412089_00433_43072_1808.N1	27-MAY-2010 03:31:07	Bright	41.000	53	43Bet And	2.0480	3300.0	82	43072	No

3.1 Plot quality information per product (time dependant)

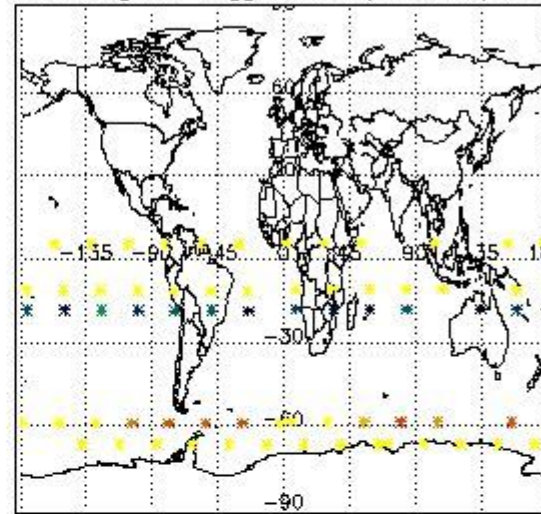


3.2 Plot quality information per product (world map)

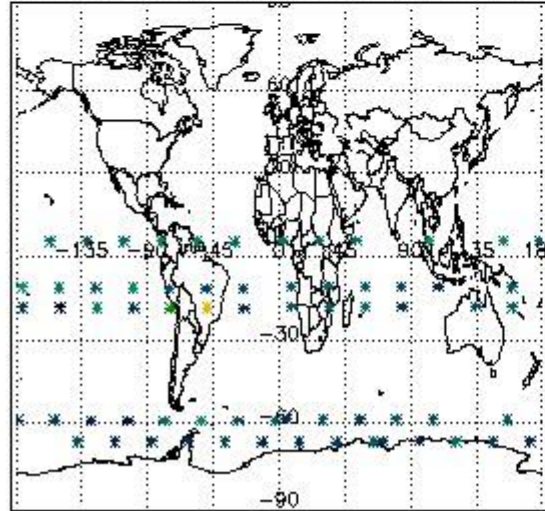
Percentage of flagged data per O3 profile



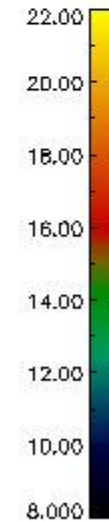
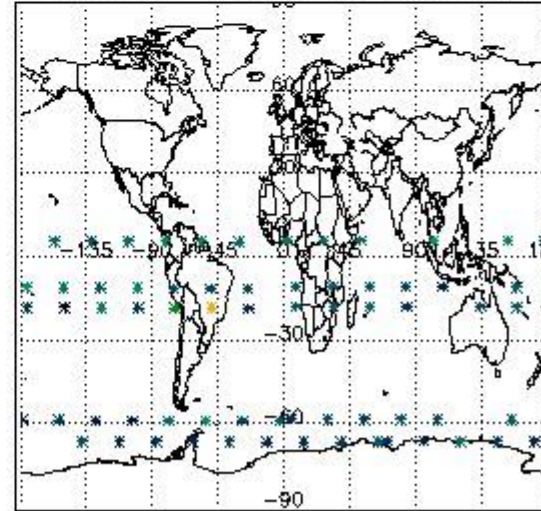
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

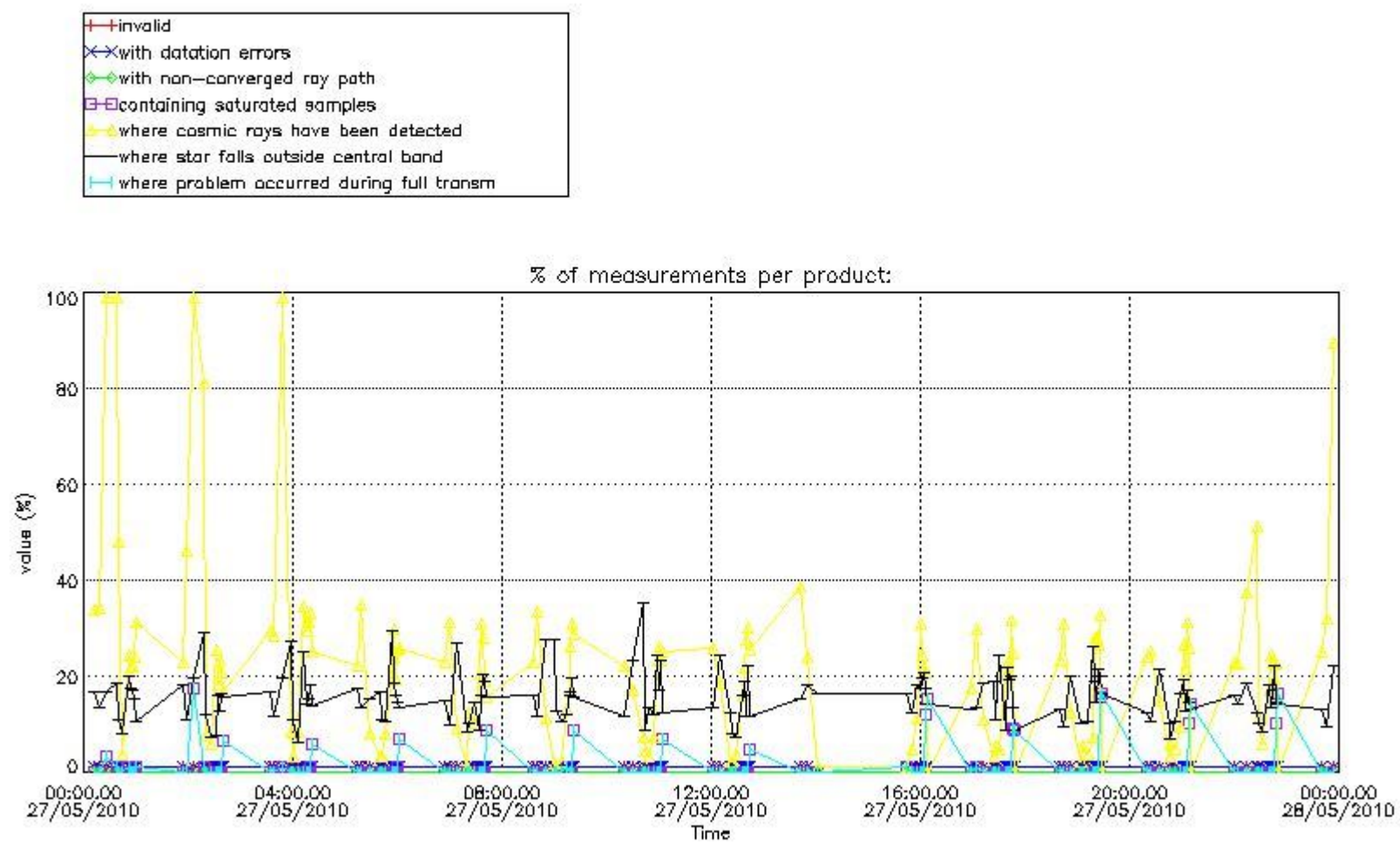


4. Level 1 quality information per product

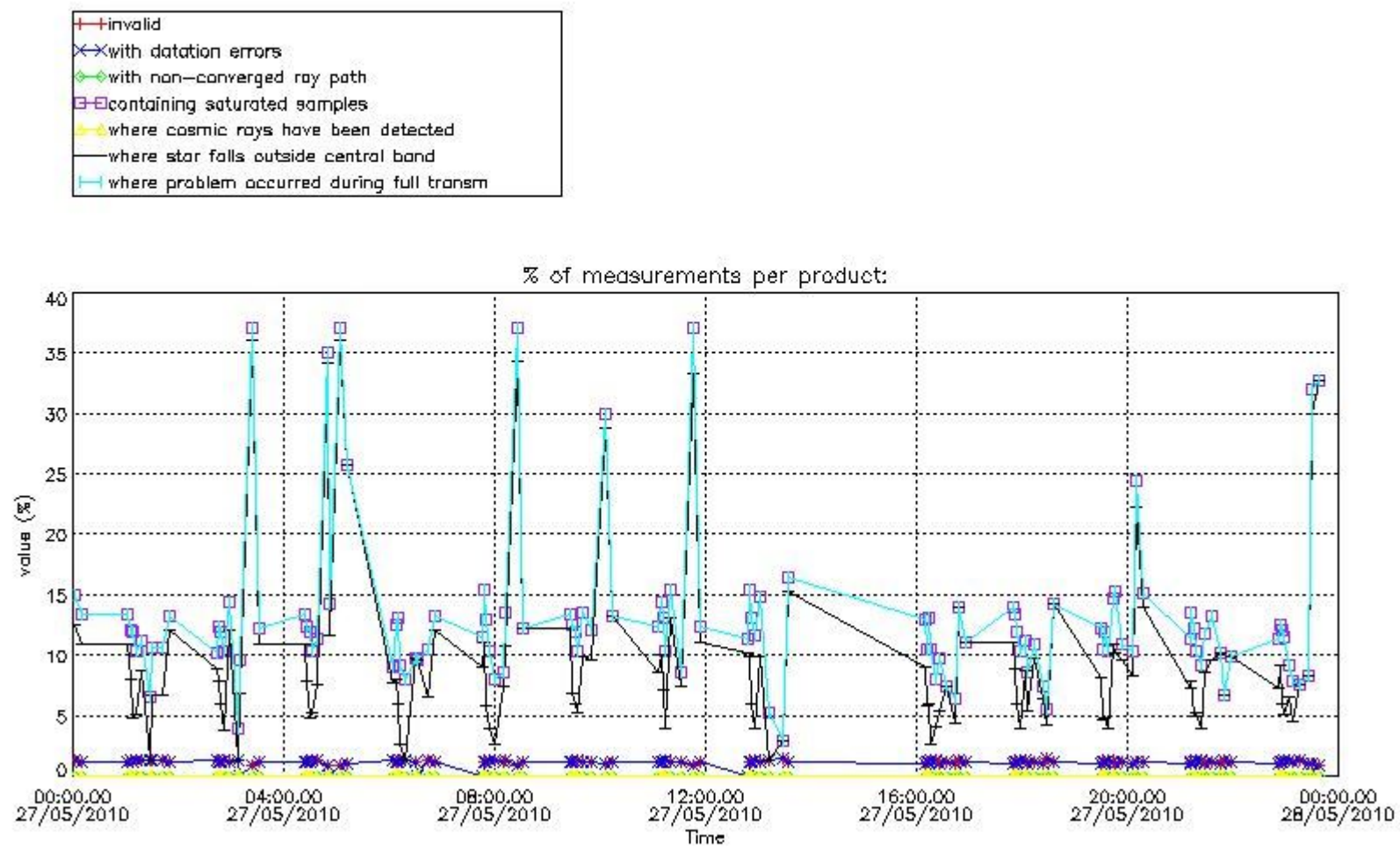
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



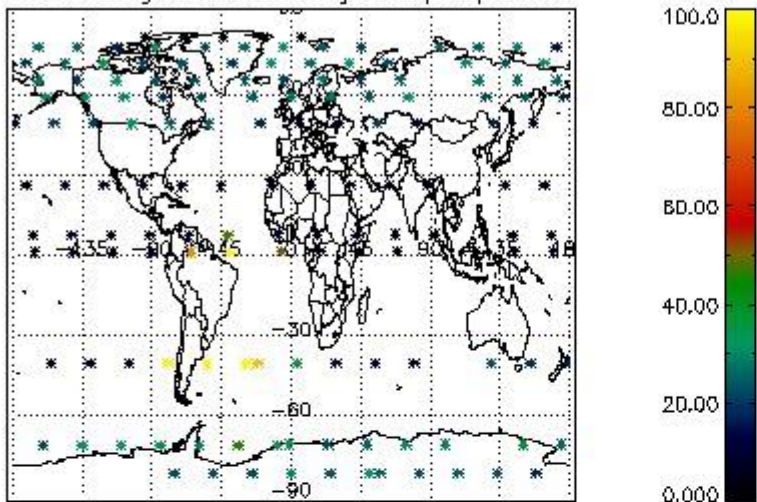
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



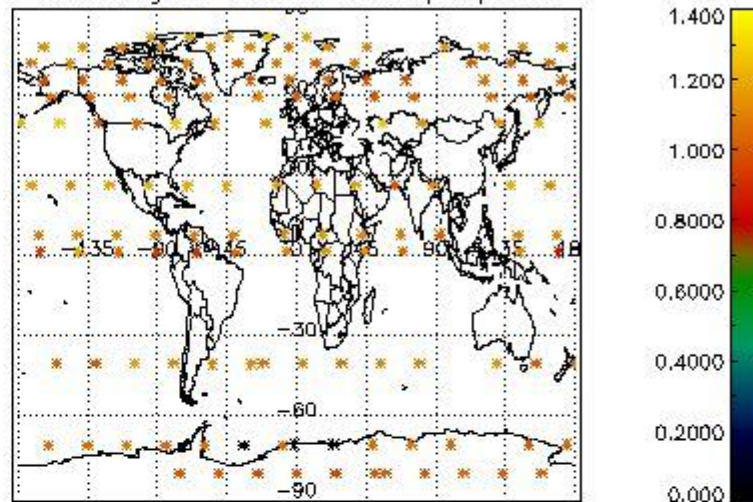
4.2 Plot quality information per product coming from level 1b processing (world map)

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

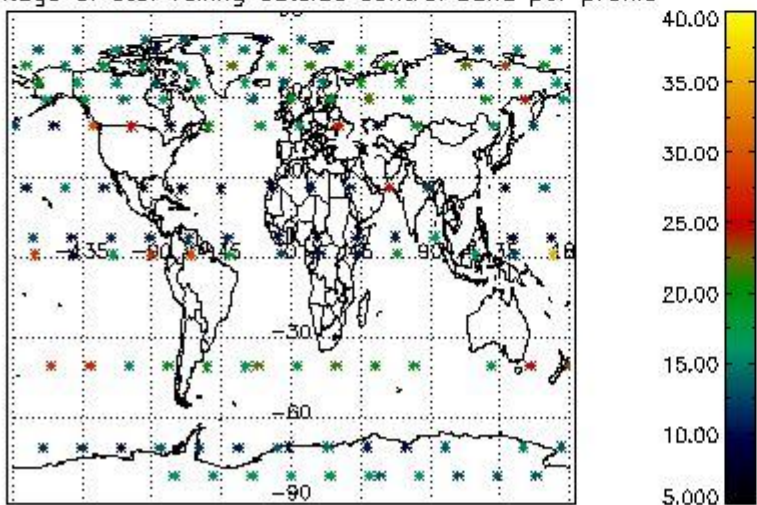
Percentage of cosmic ray hits per profile



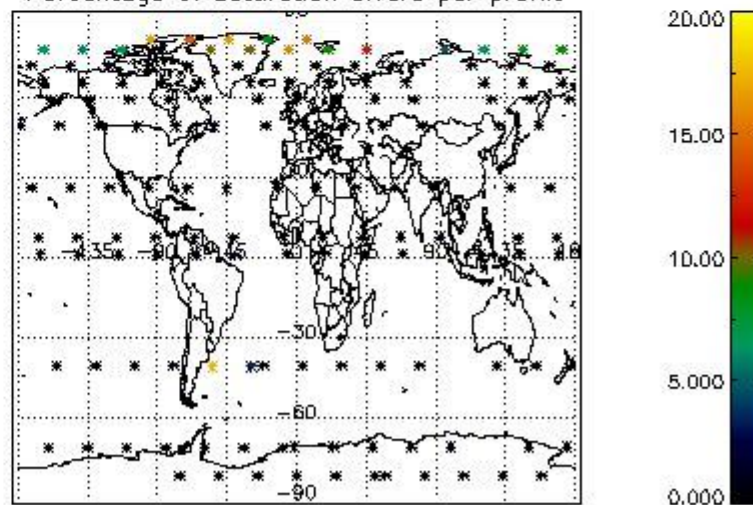
Percentage of datation errors per profile



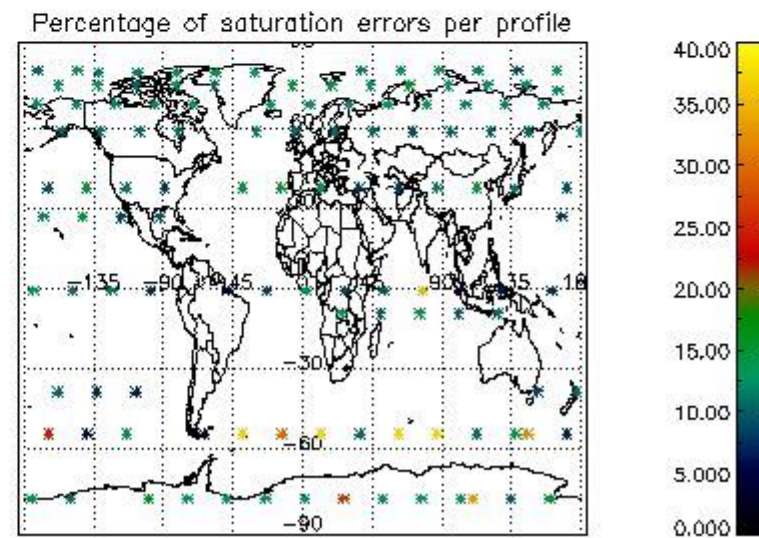
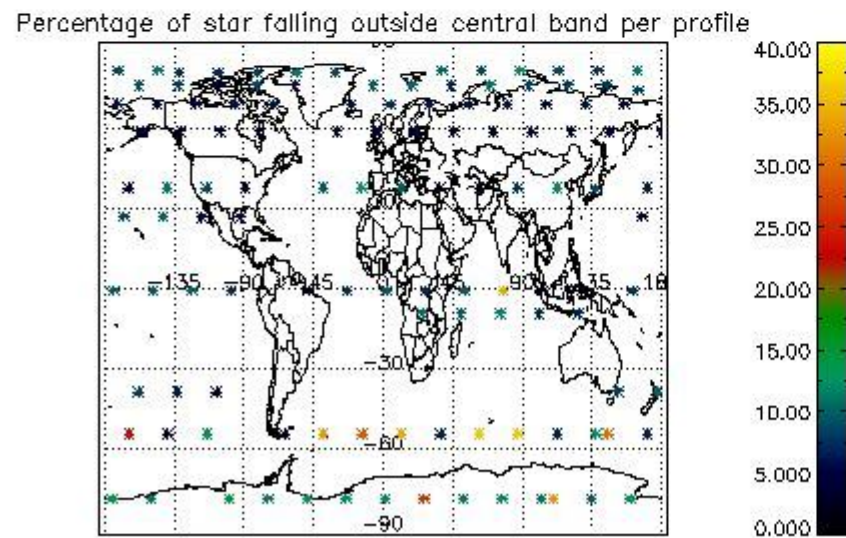
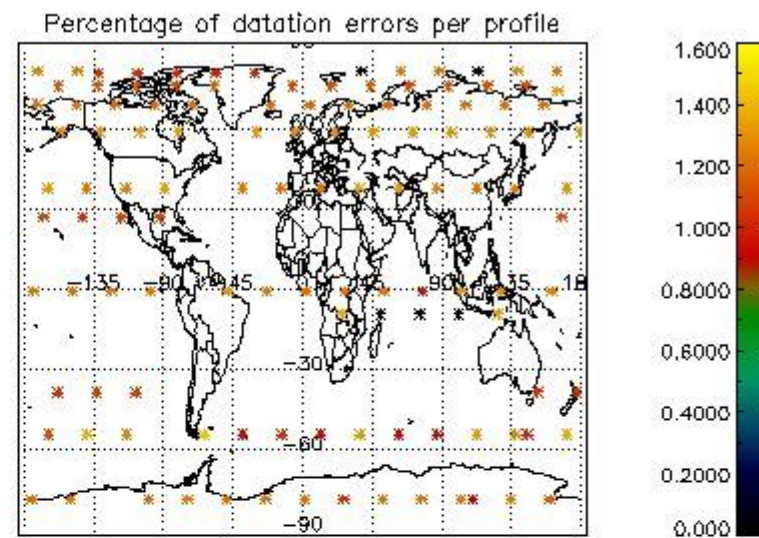
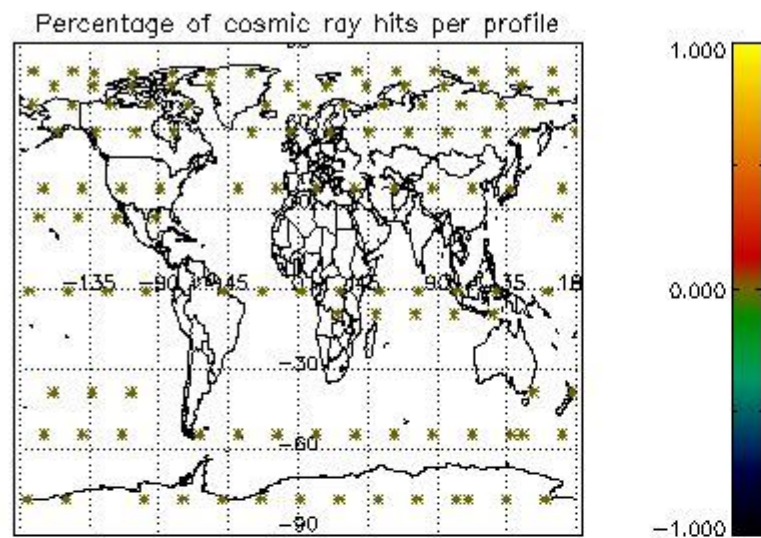
Percentage of star falling outside central band per profile



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

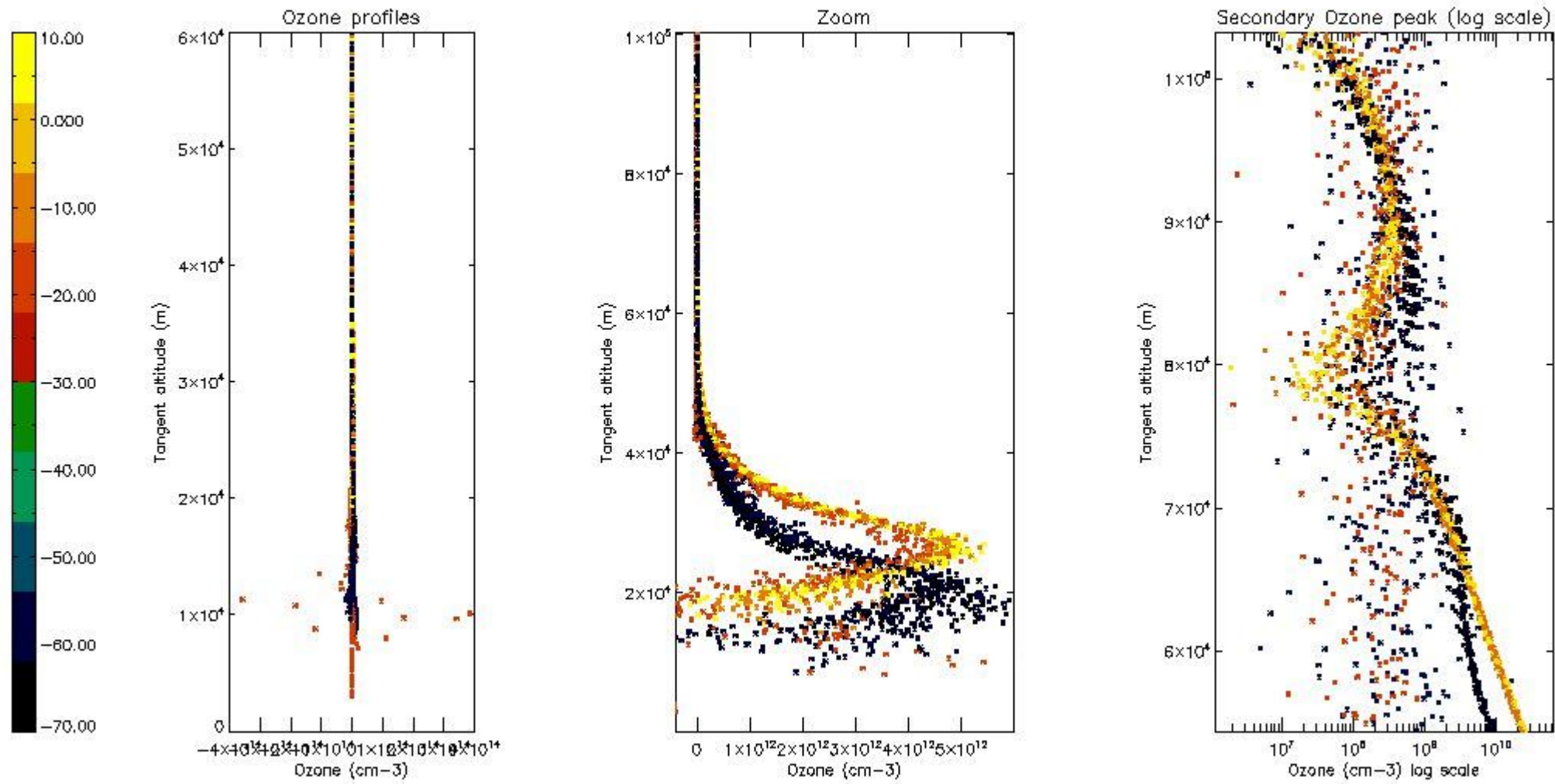
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	26
STD < 20	13

STD < 10	10
STD < 5	7

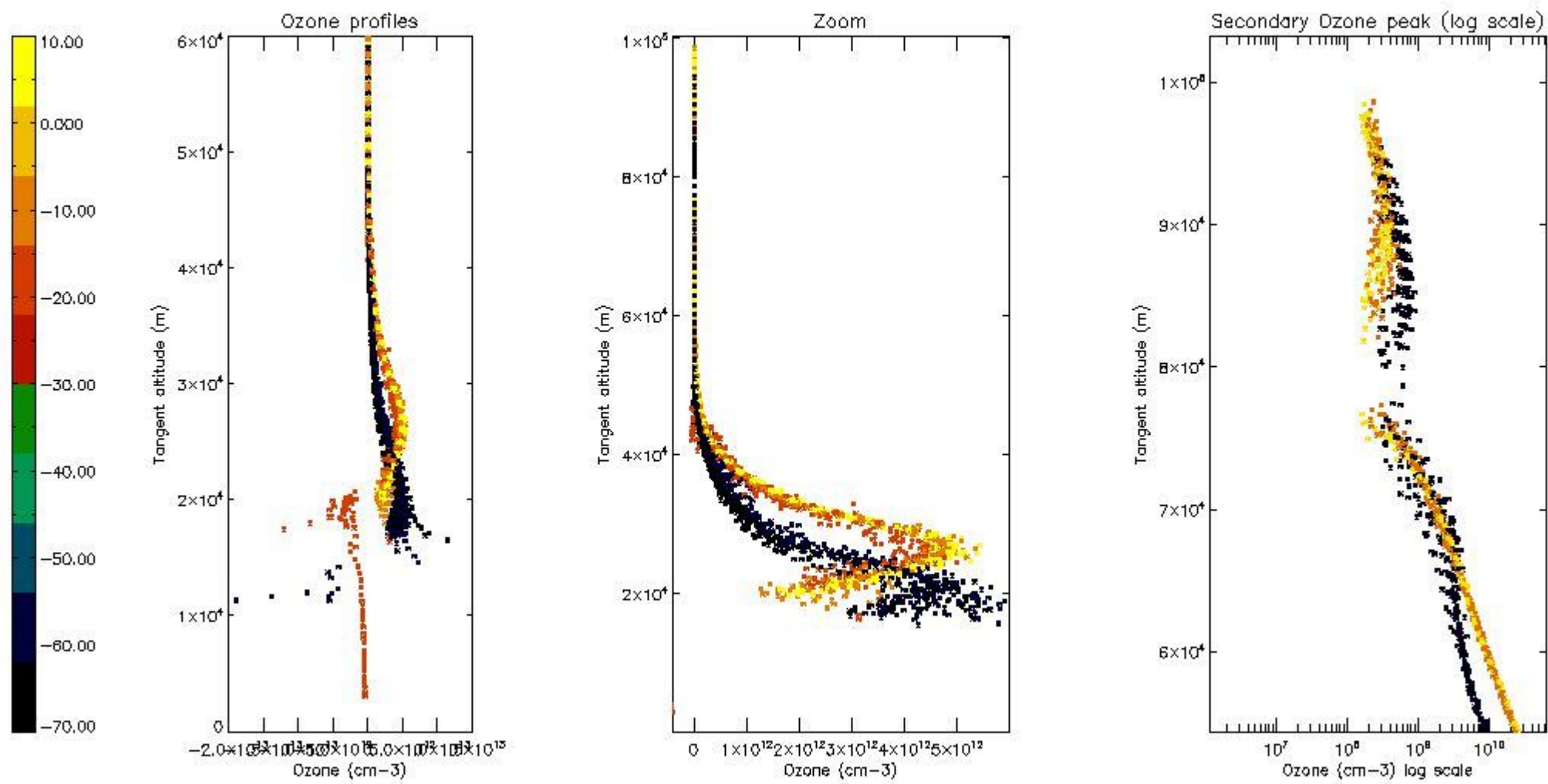
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



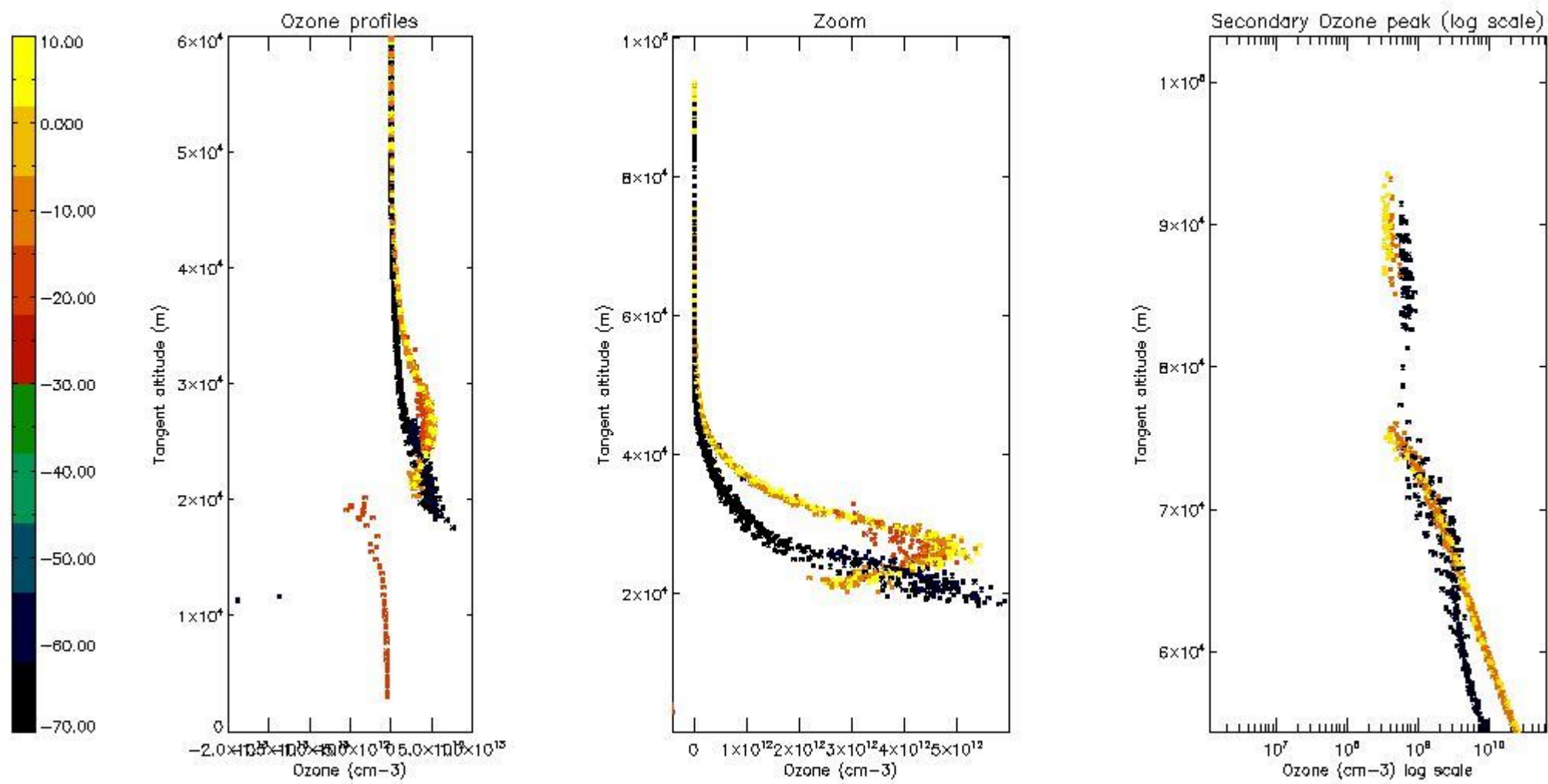
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



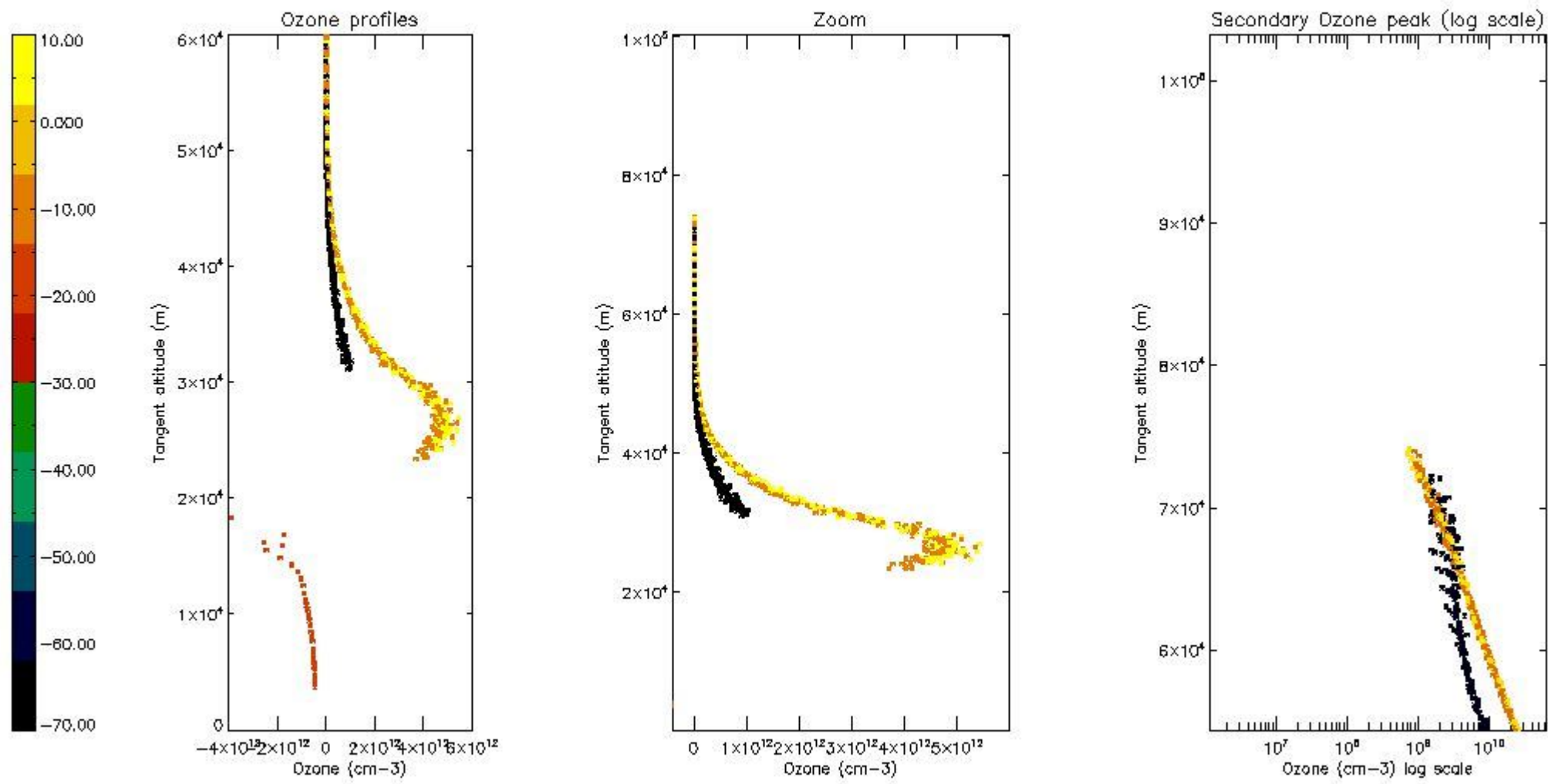
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



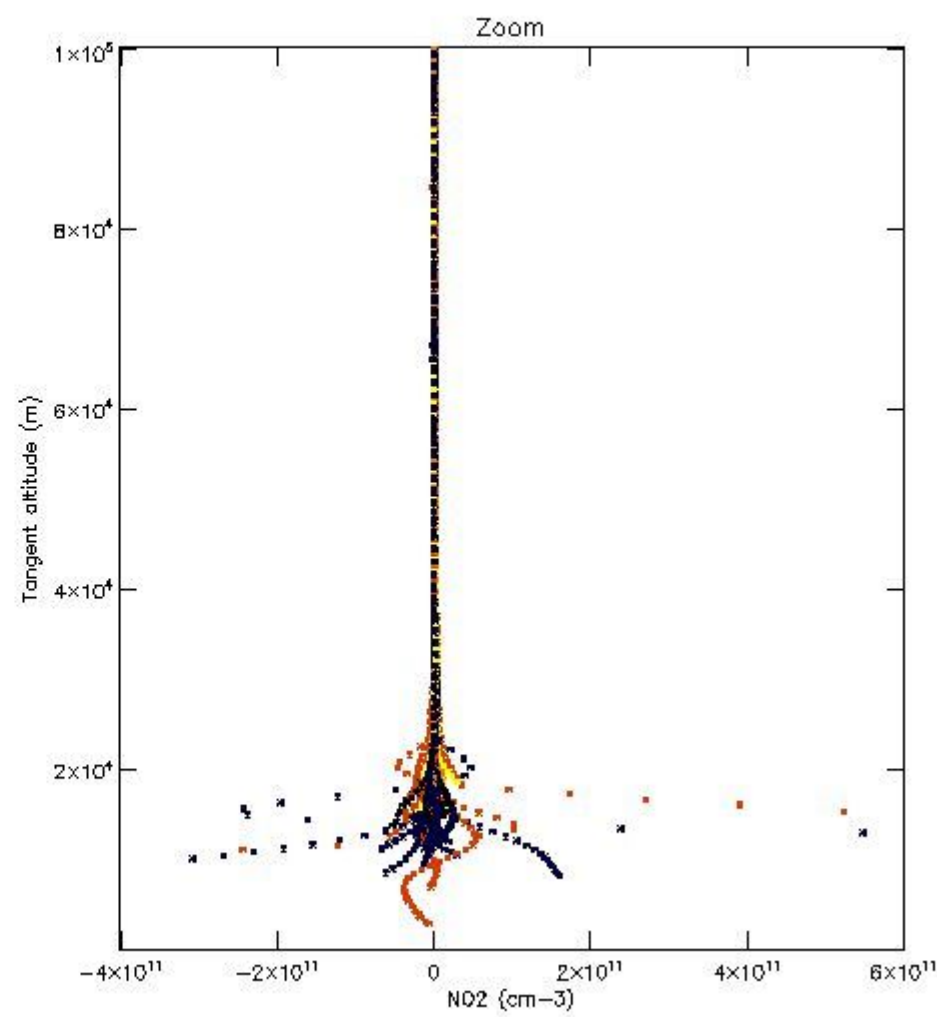
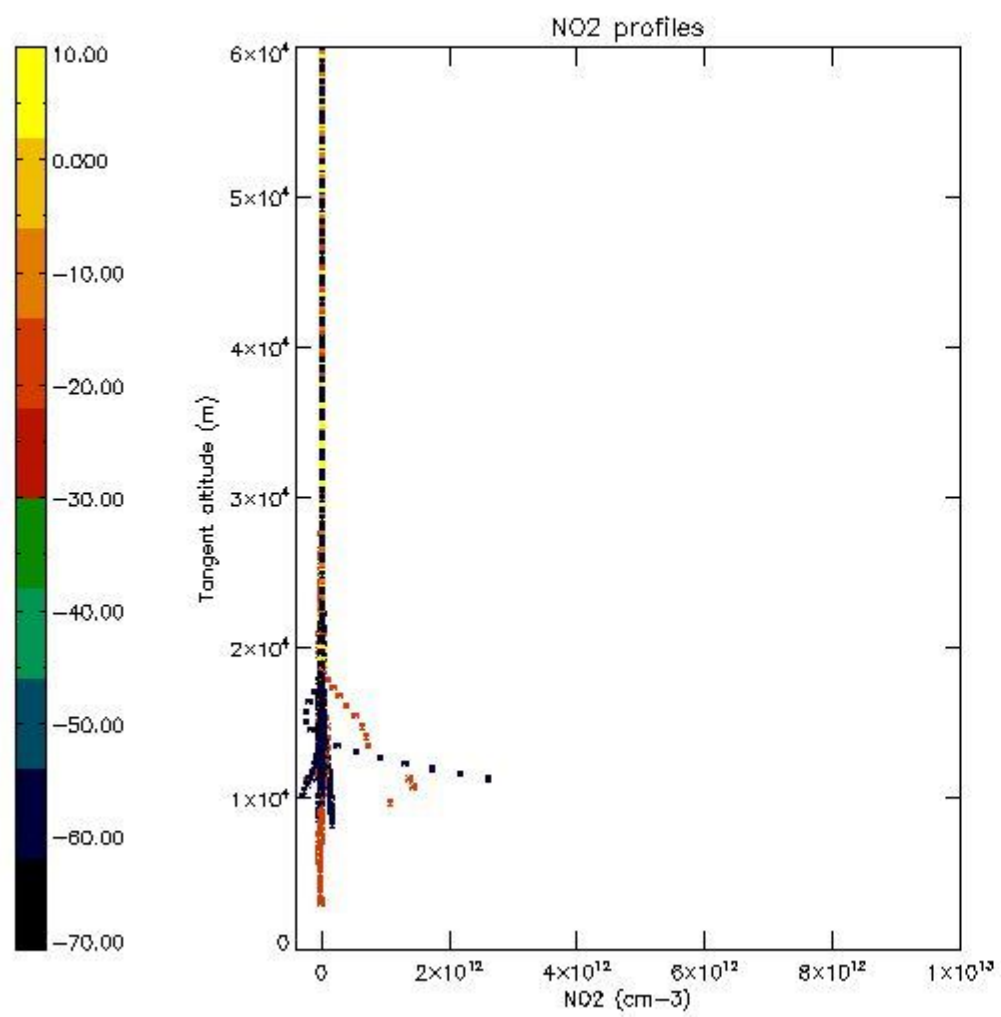
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



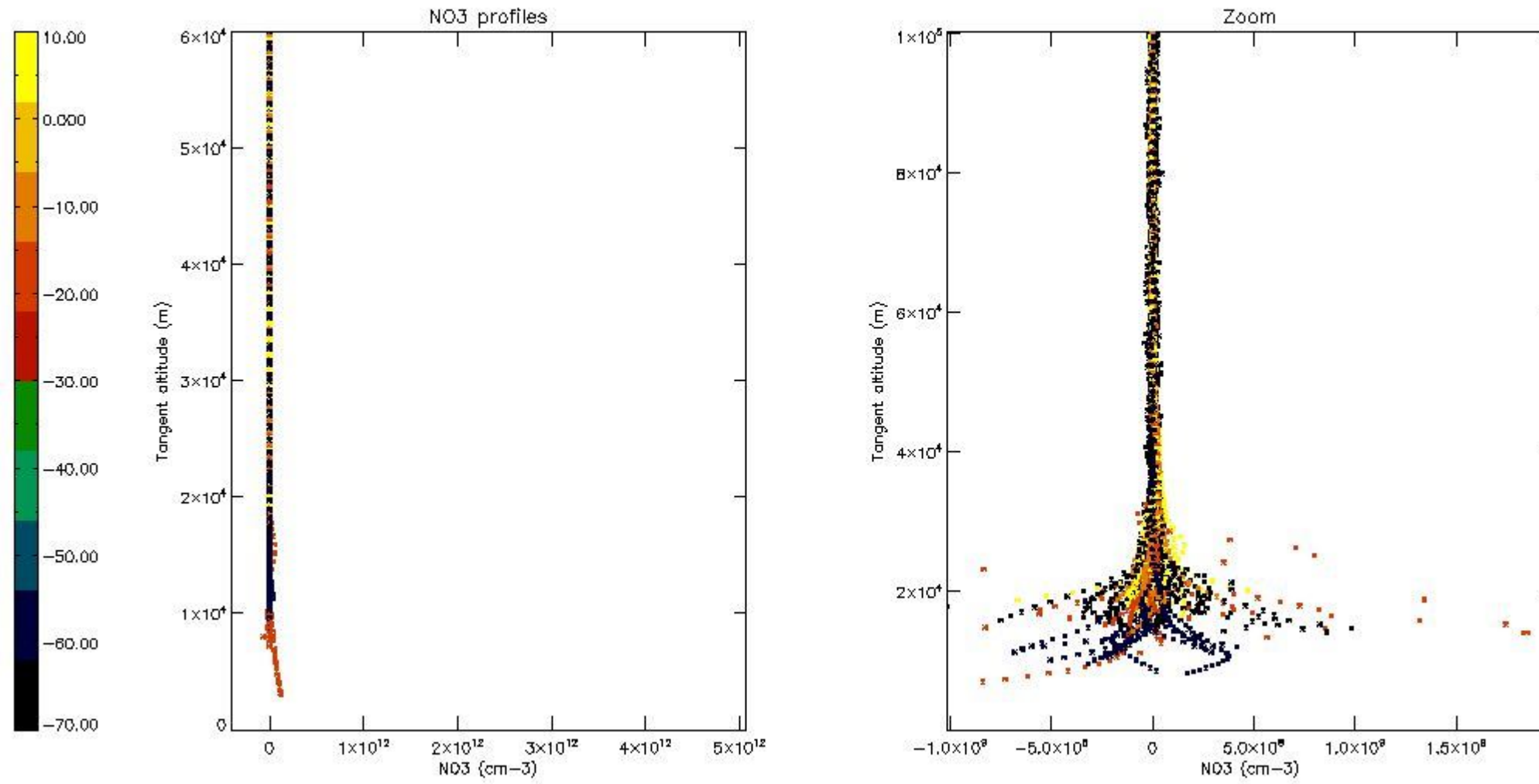
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

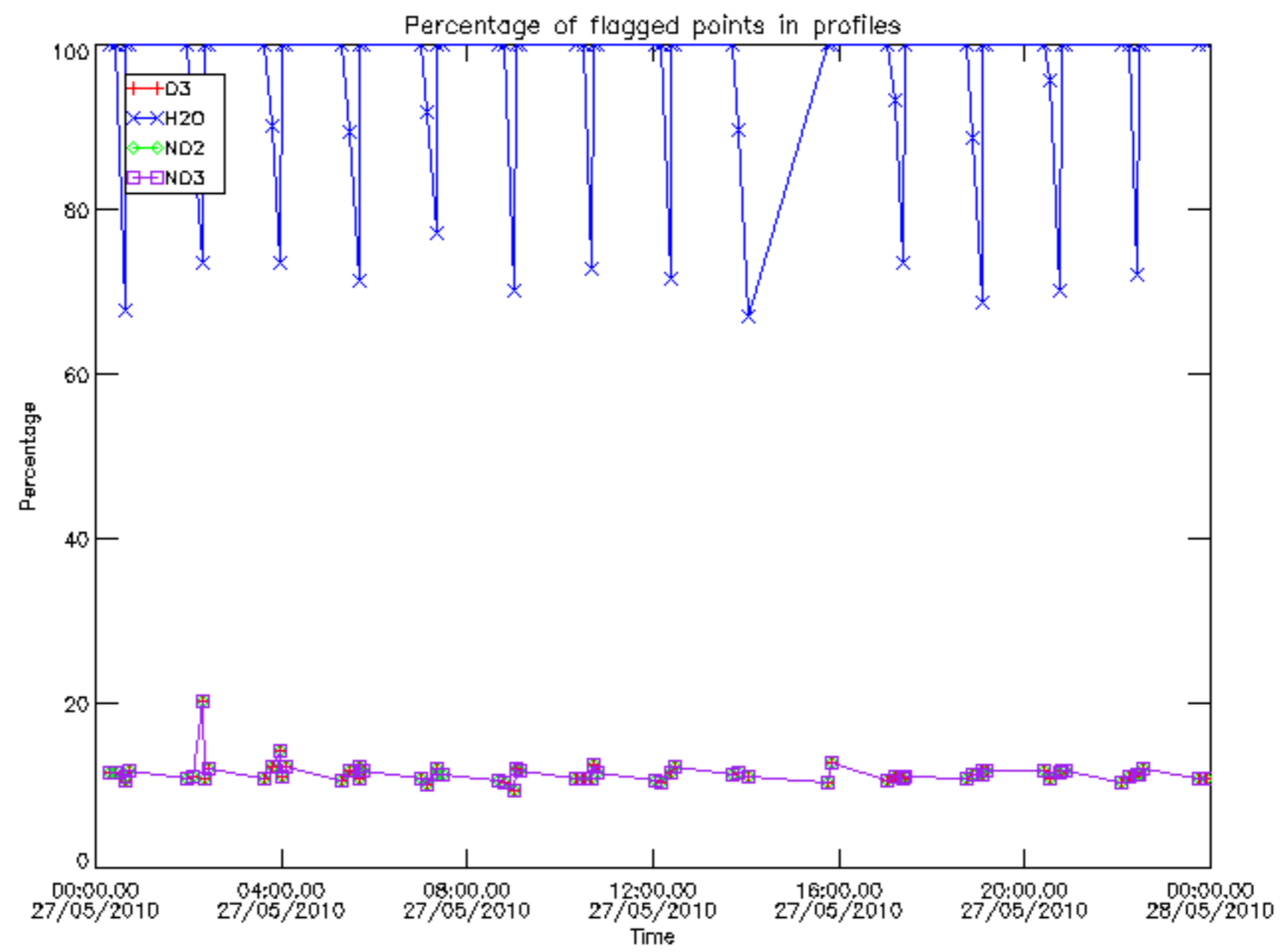
The colorbar represents the latitude.



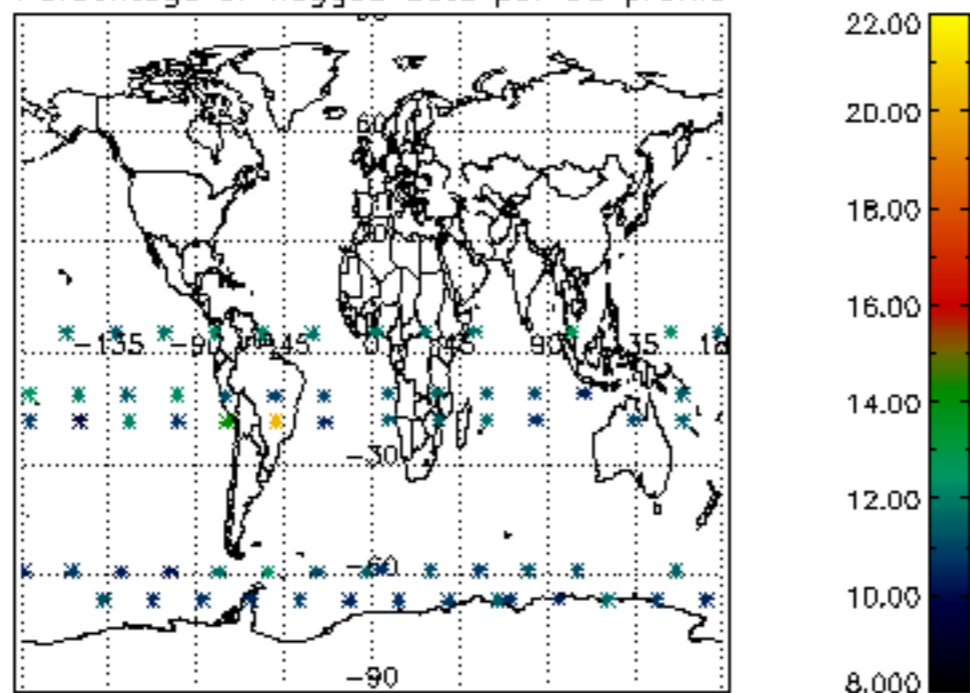
6. Auxiliary Data Files used for the production reported in section 2

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.

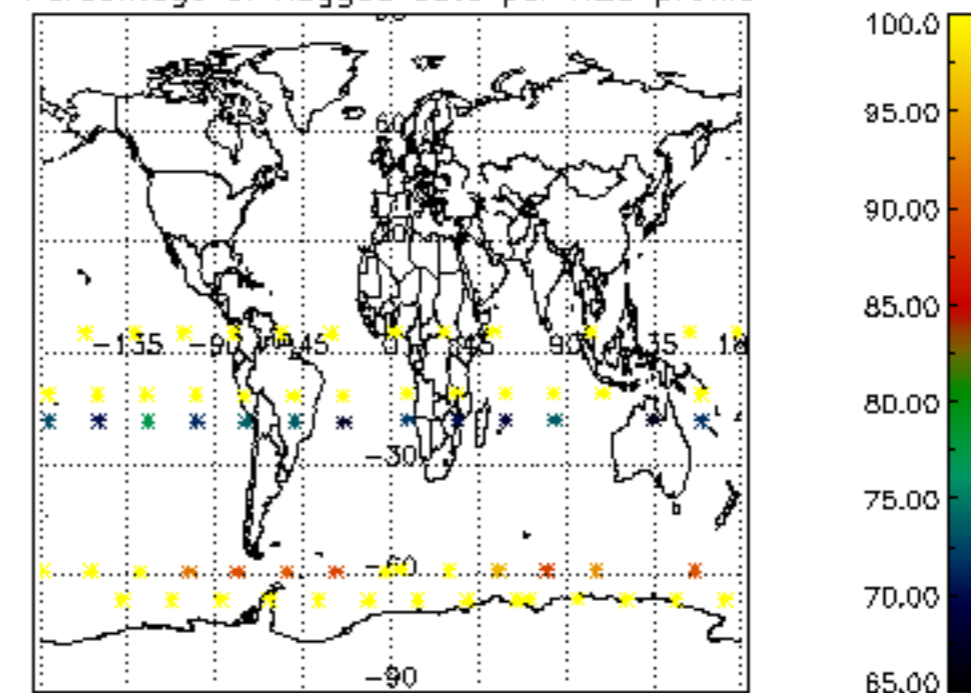
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	27-MAY-2010 00:02:23
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	27-MAY-2010 00:02:23
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	27-MAY-2010 00:02:23



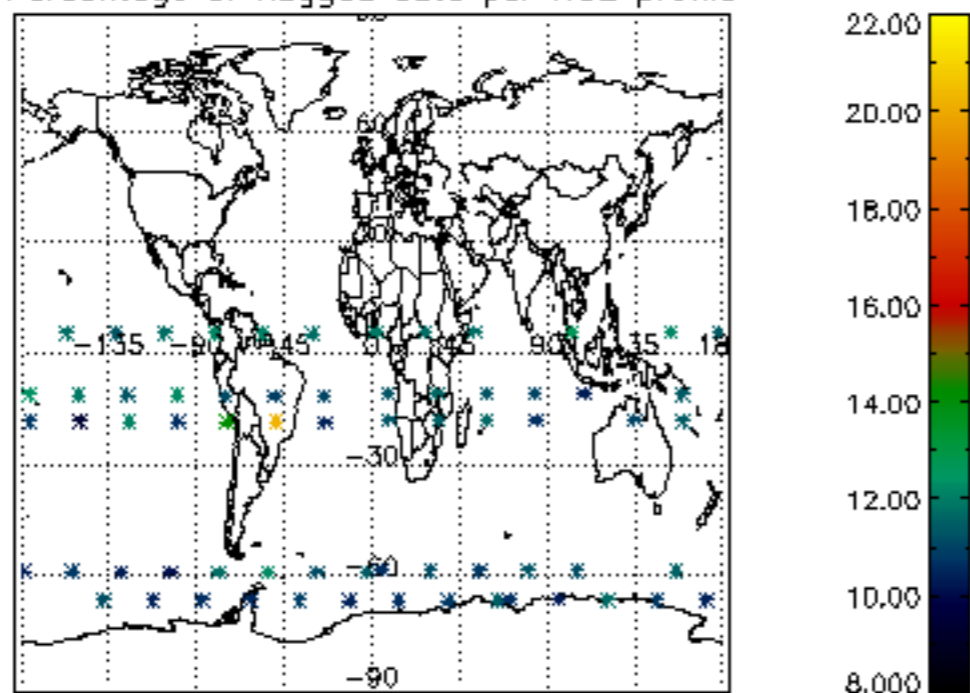
Percentage of flagged data per D3 profile



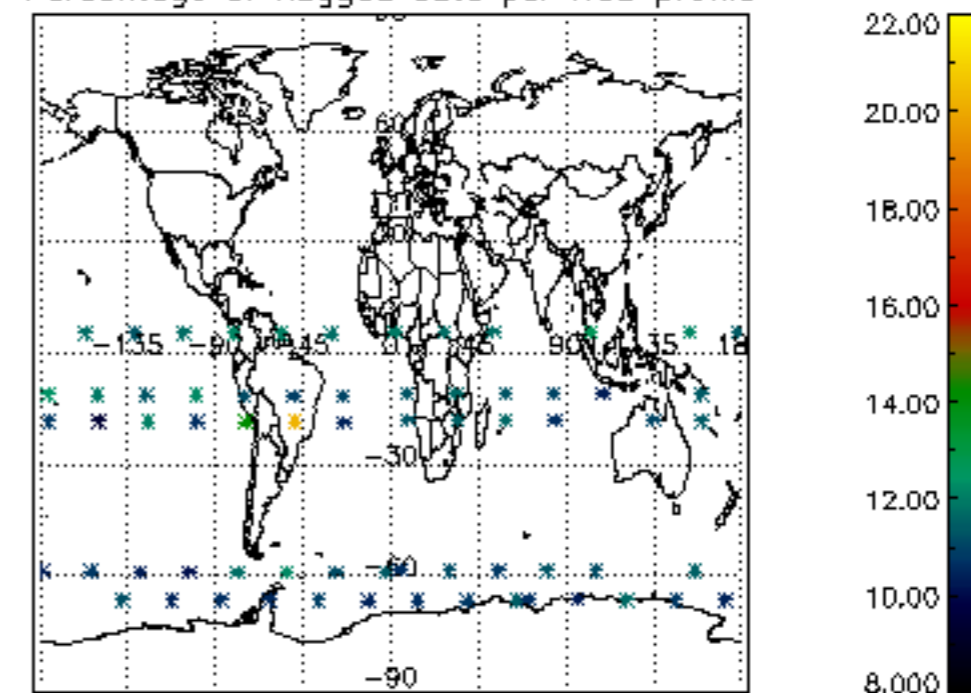
Percentage of flagged data per H2O profile

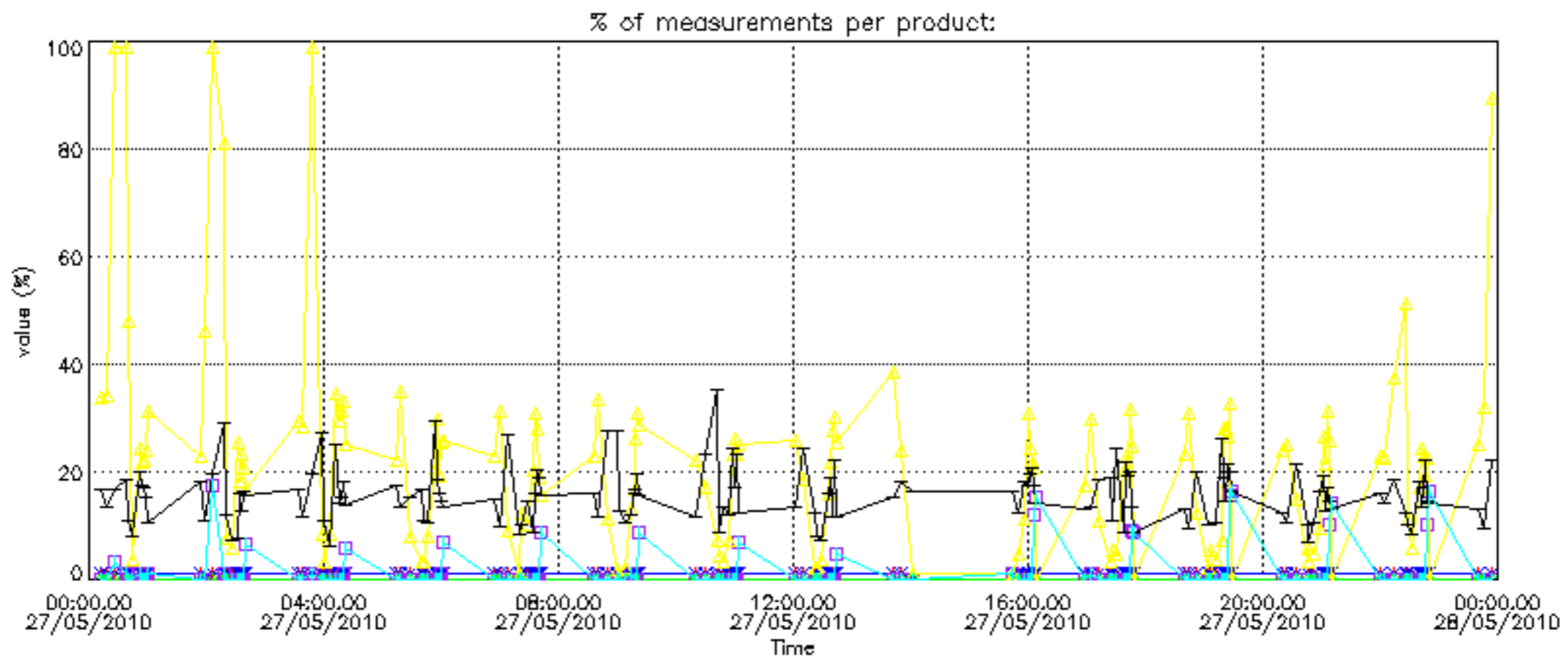


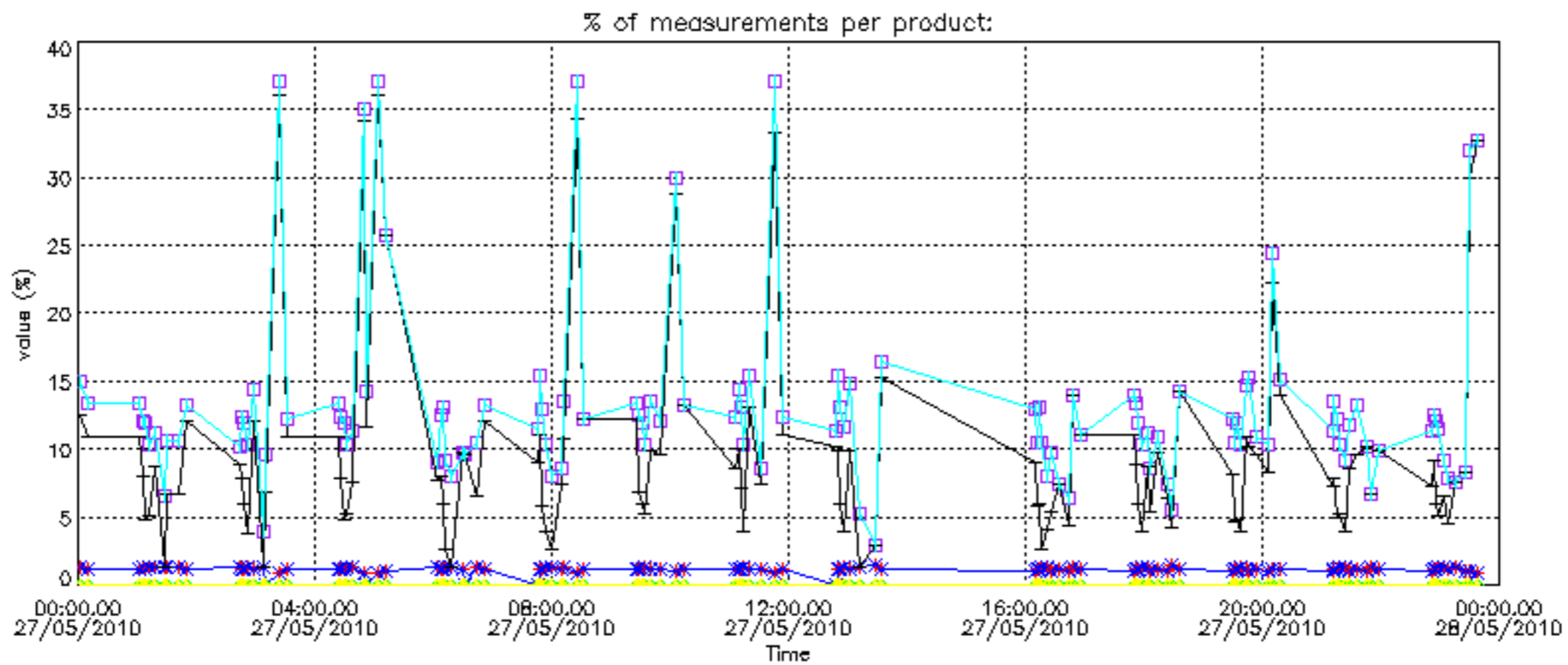
Percentage of flagged data per NO2 profile



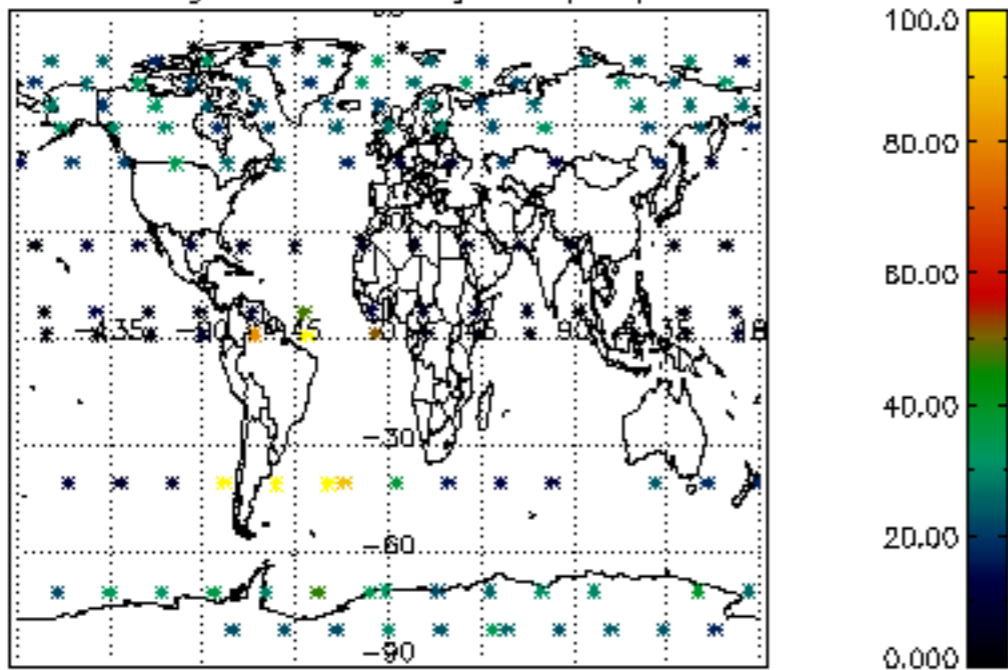
Percentage of flagged data per NO3 profile



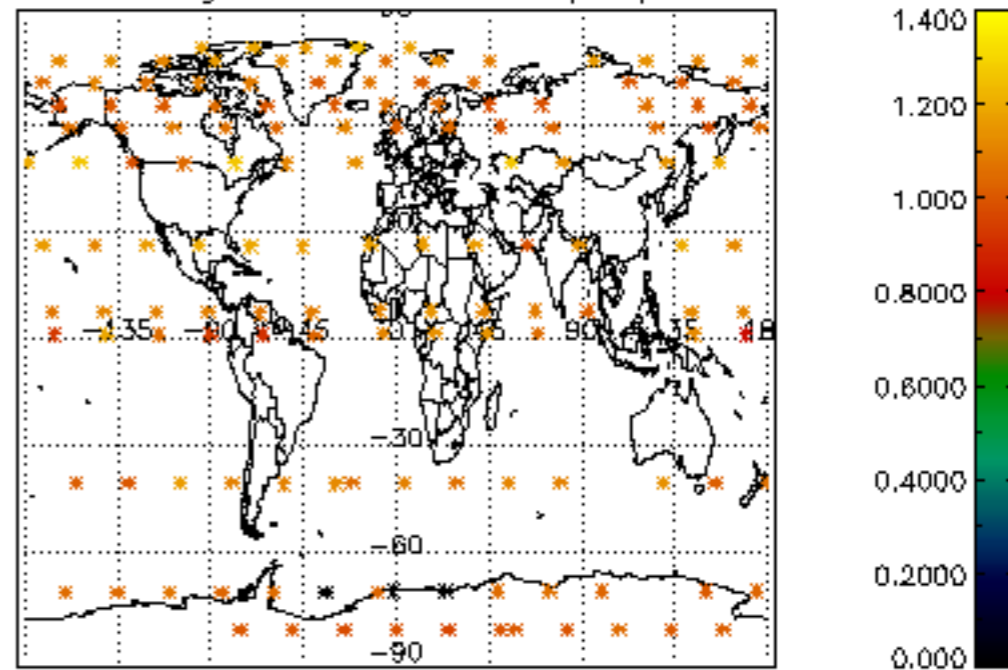




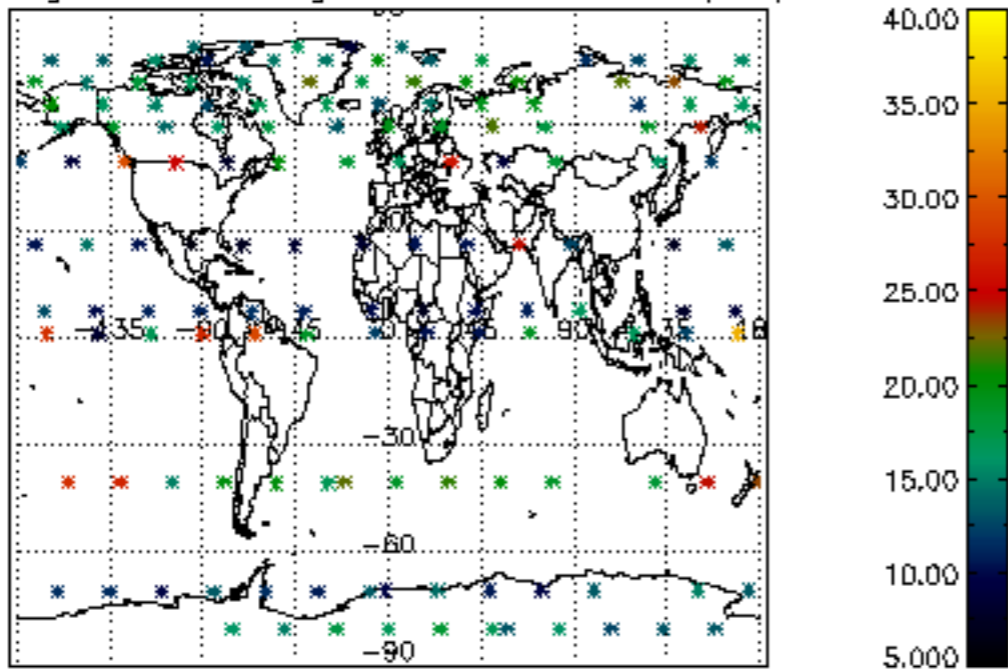
Percentage of cosmic ray hits per profile



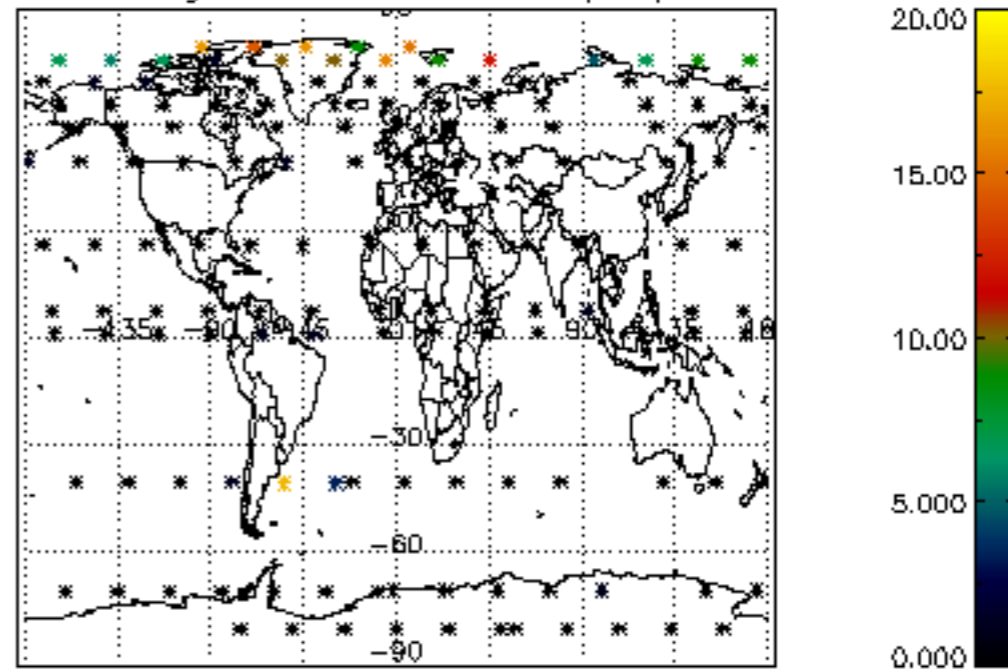
Percentage of datation errors per profile



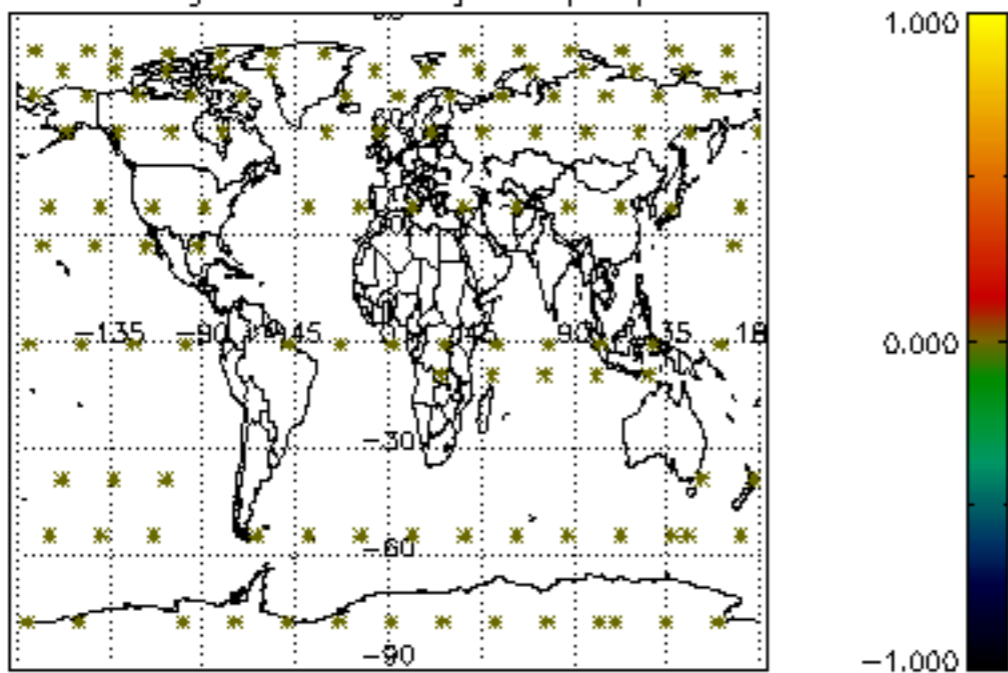
Percentage of star falling outside central band per profile



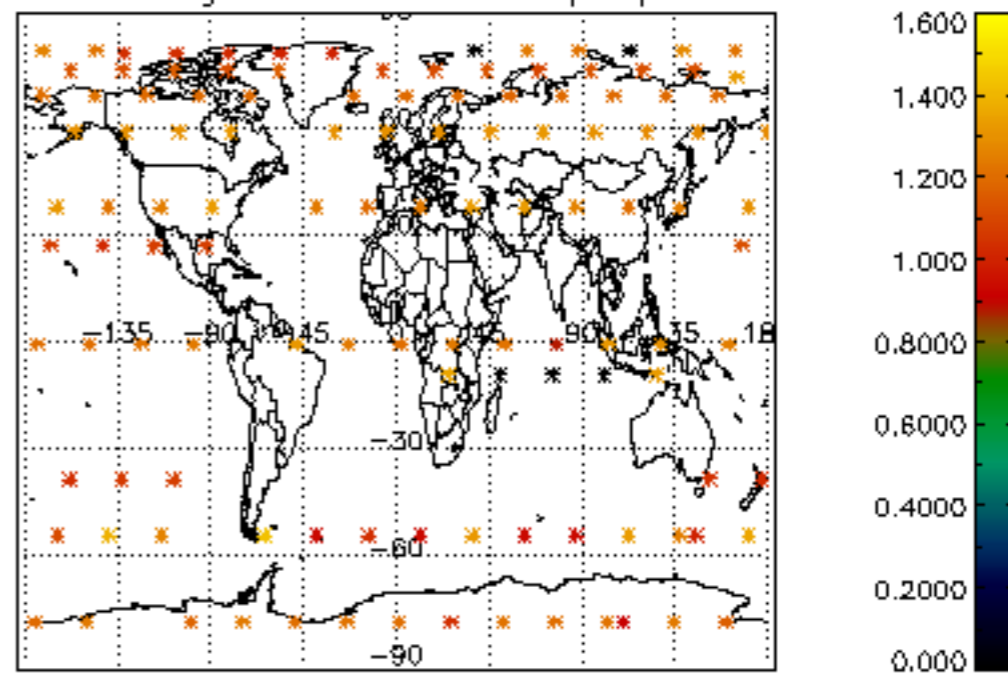
Percentage of saturation errors per profile



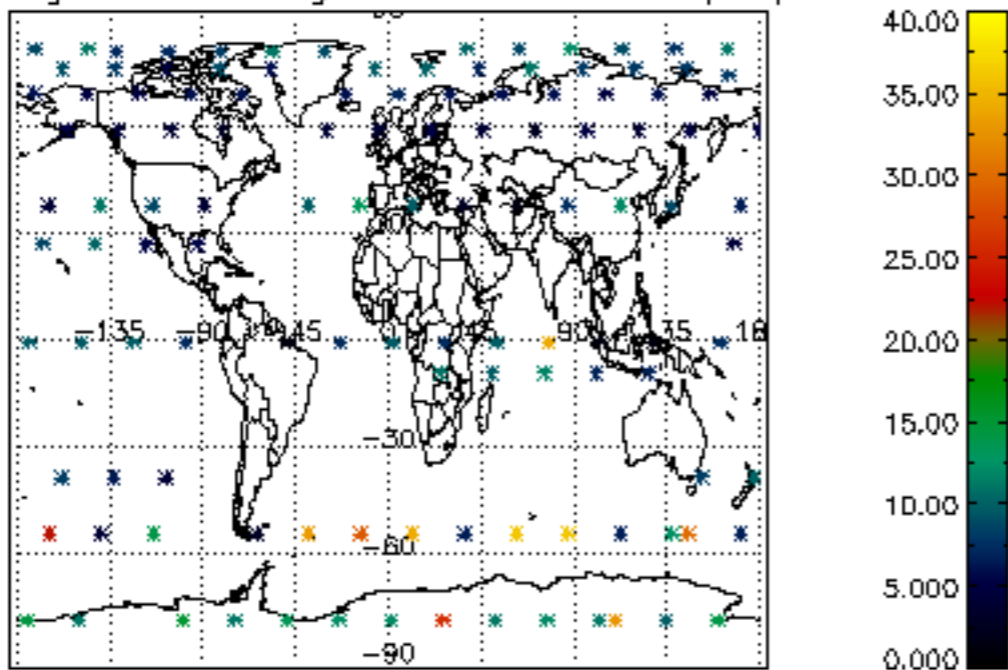
Percentage of cosmic ray hits per profile



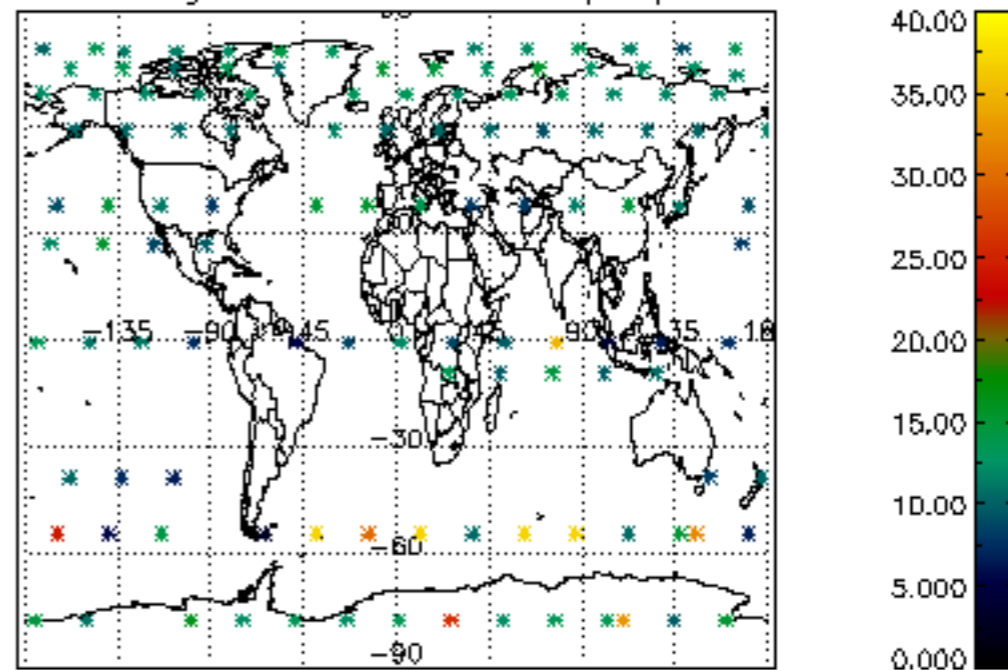
Percentage of datation errors per profile

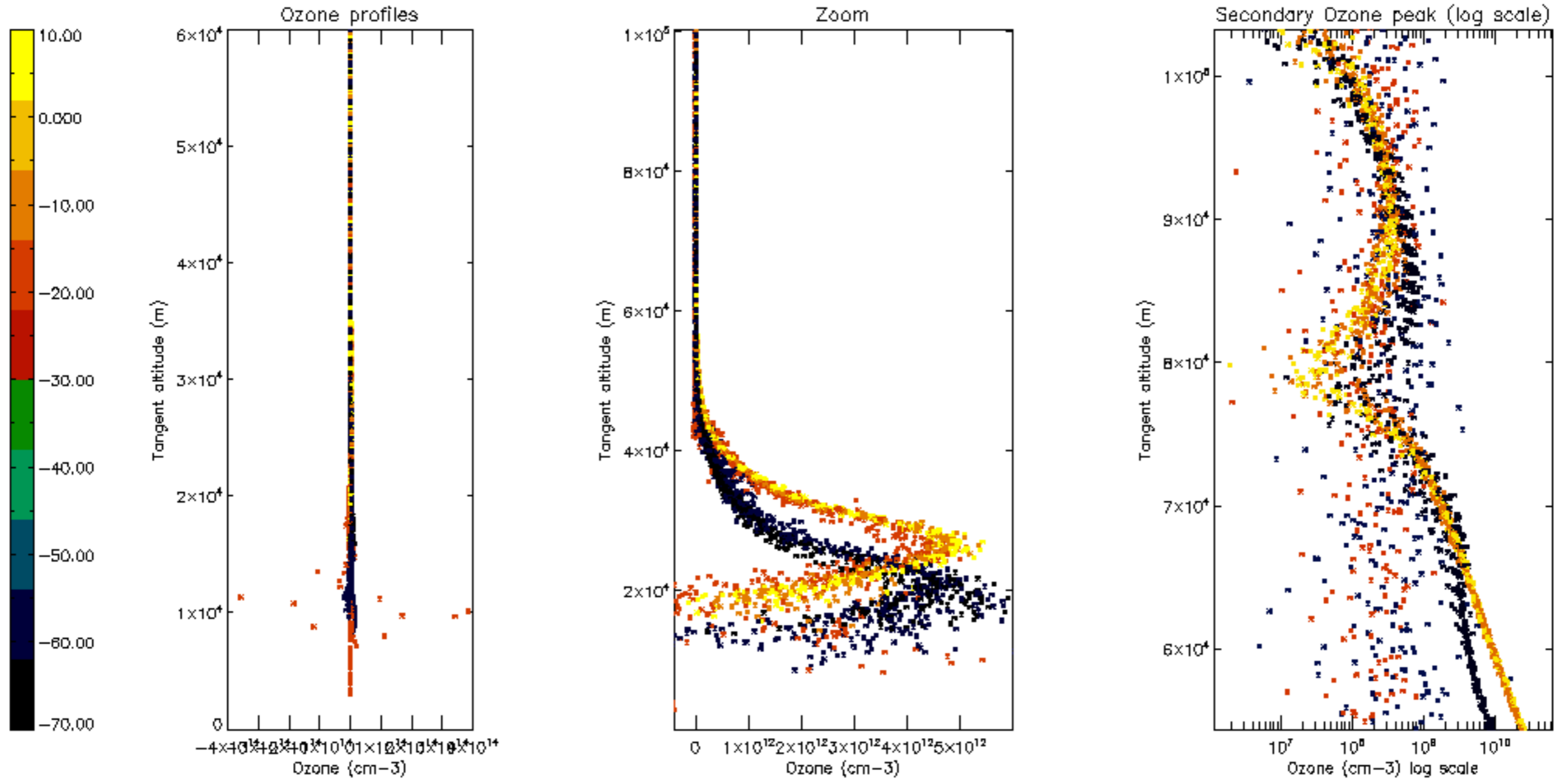


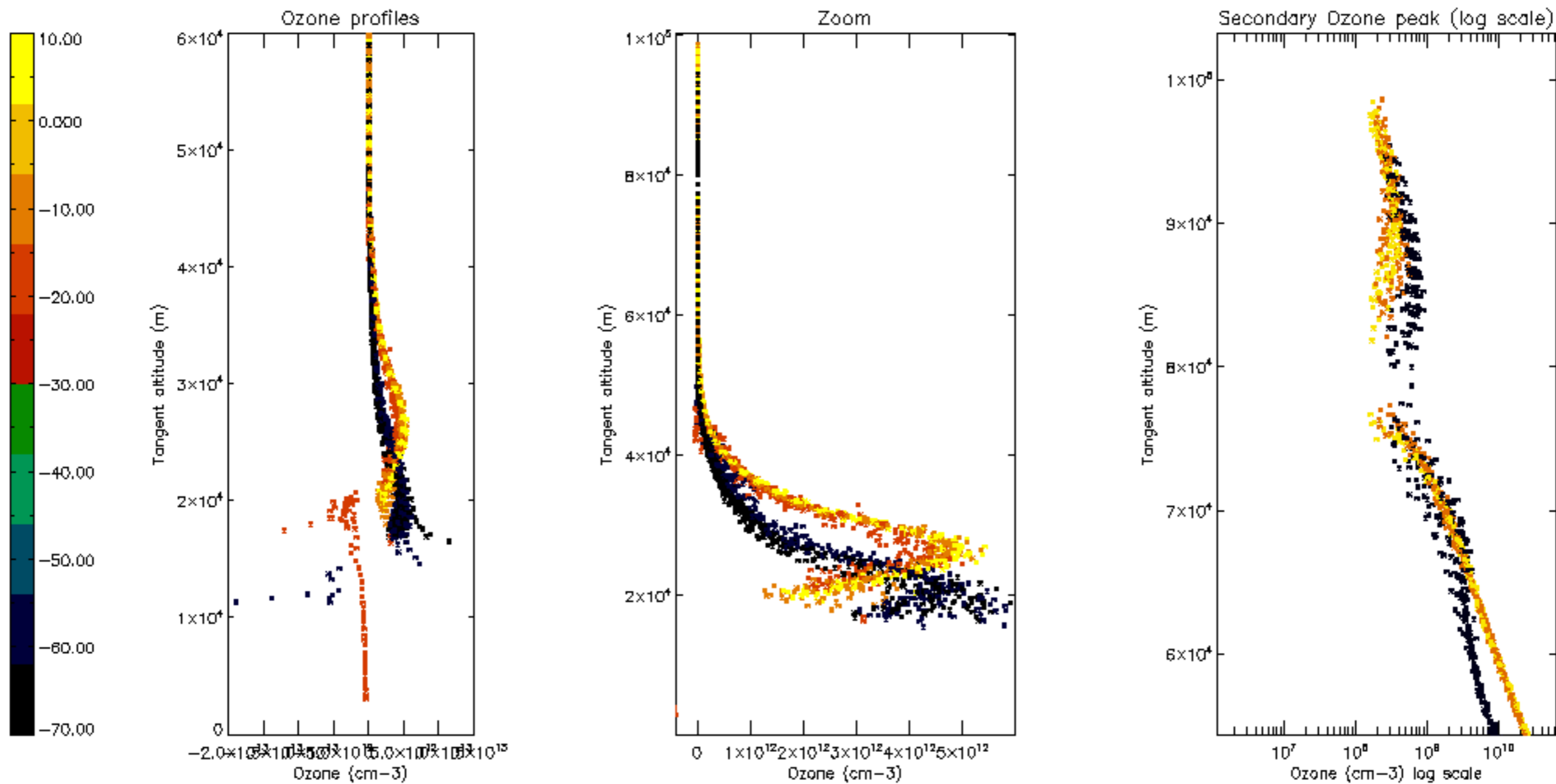
Percentage of star falling outside central band per profile

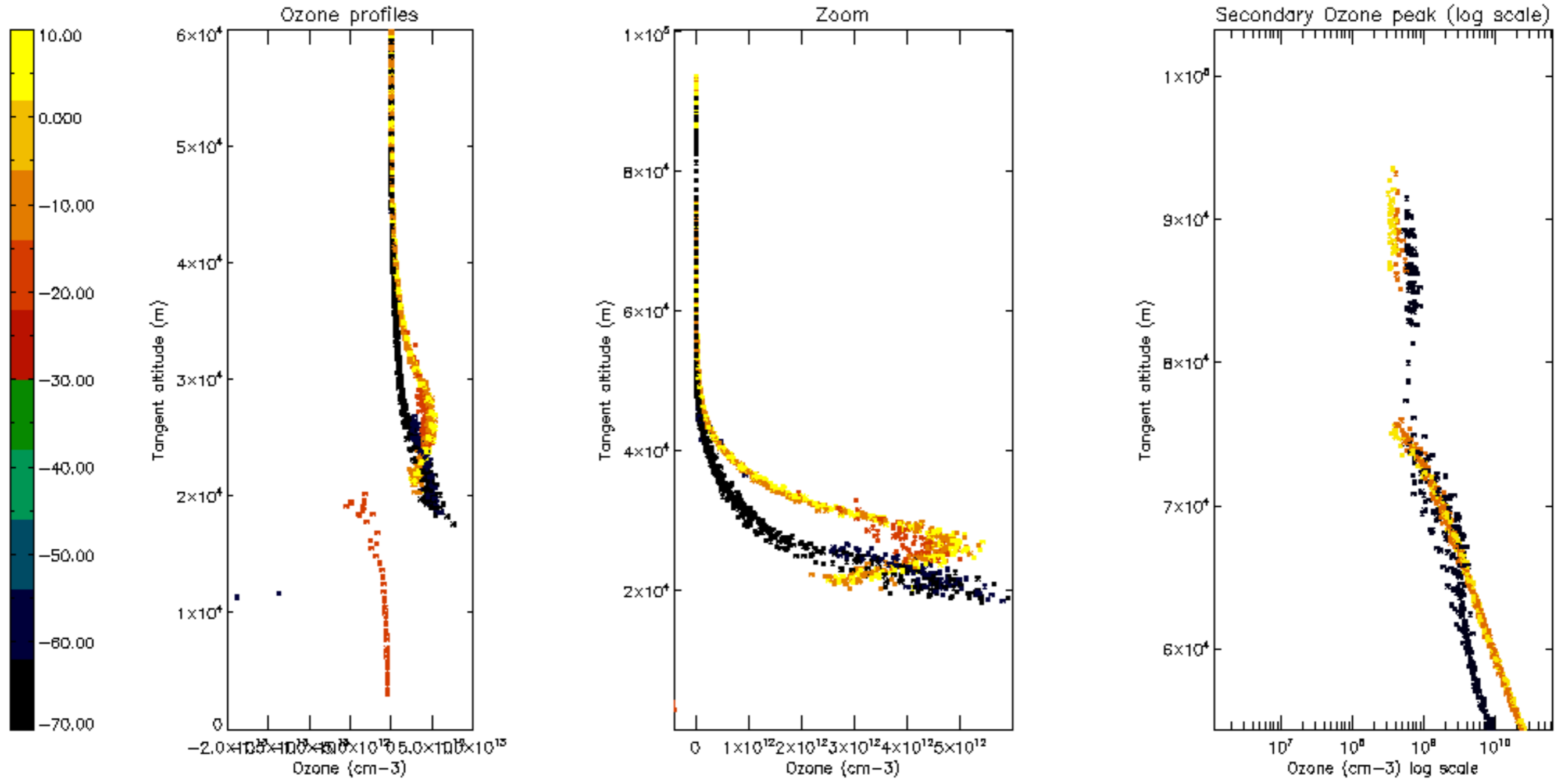


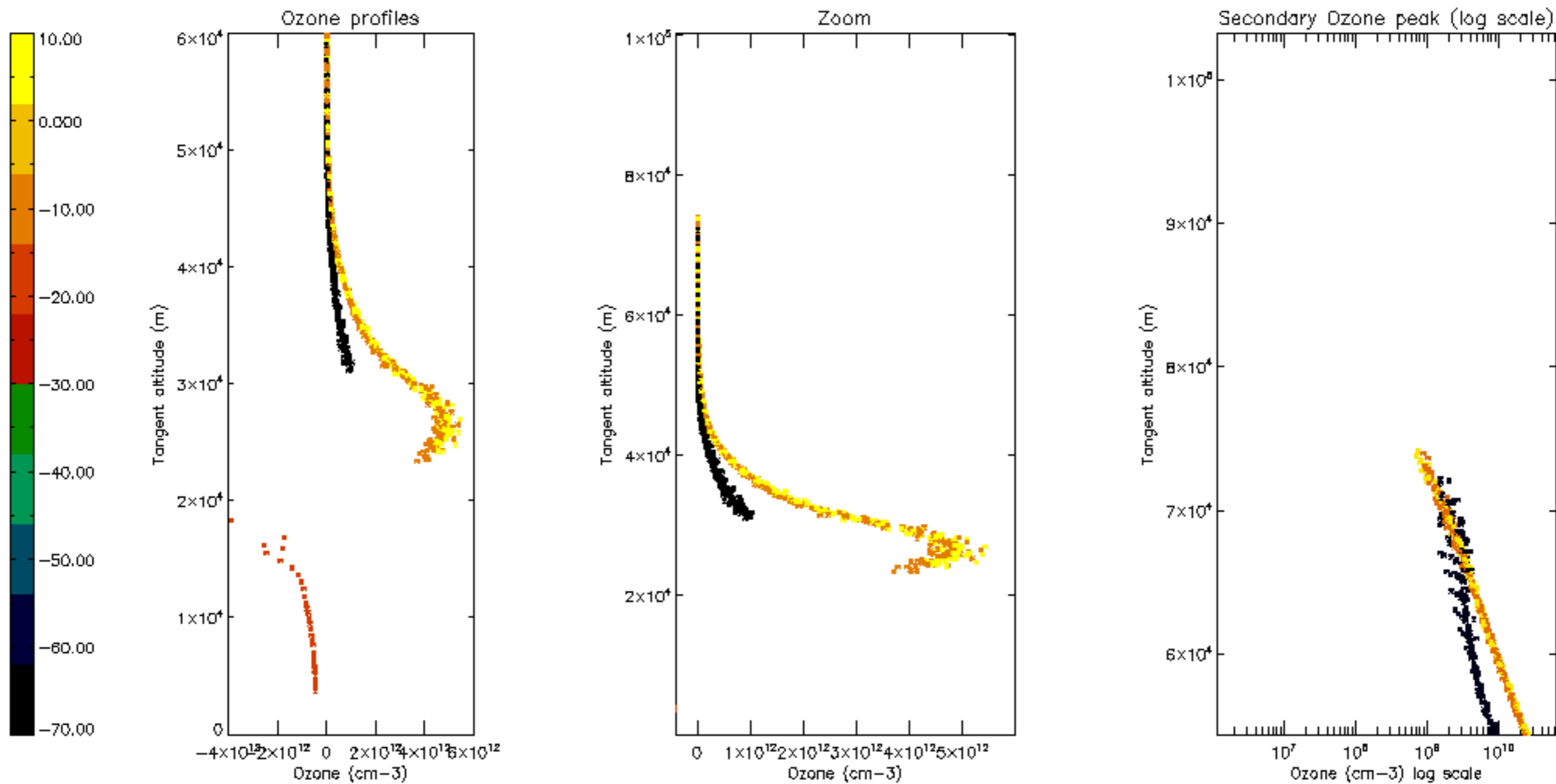
Percentage of saturation errors per profile

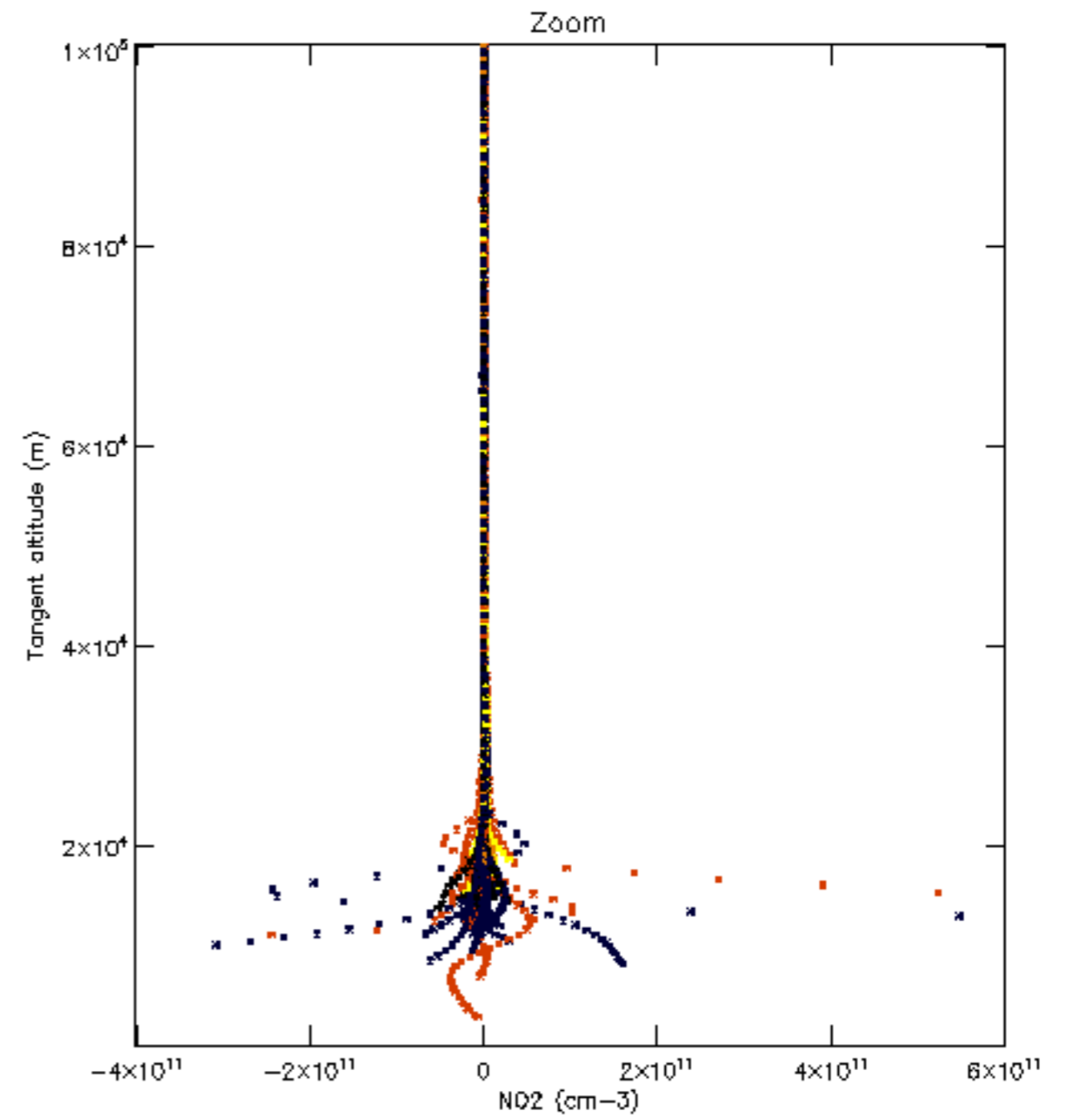
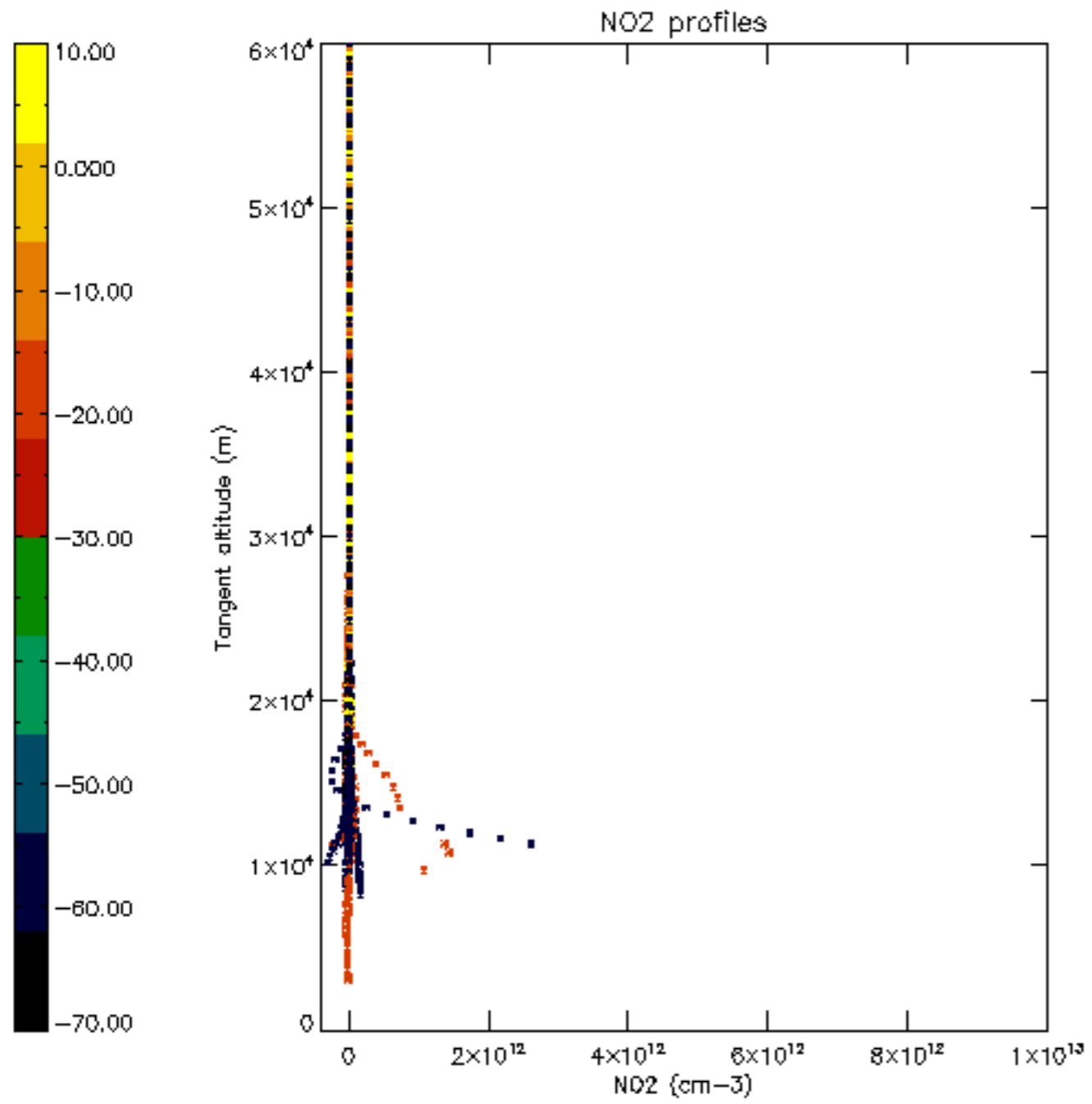


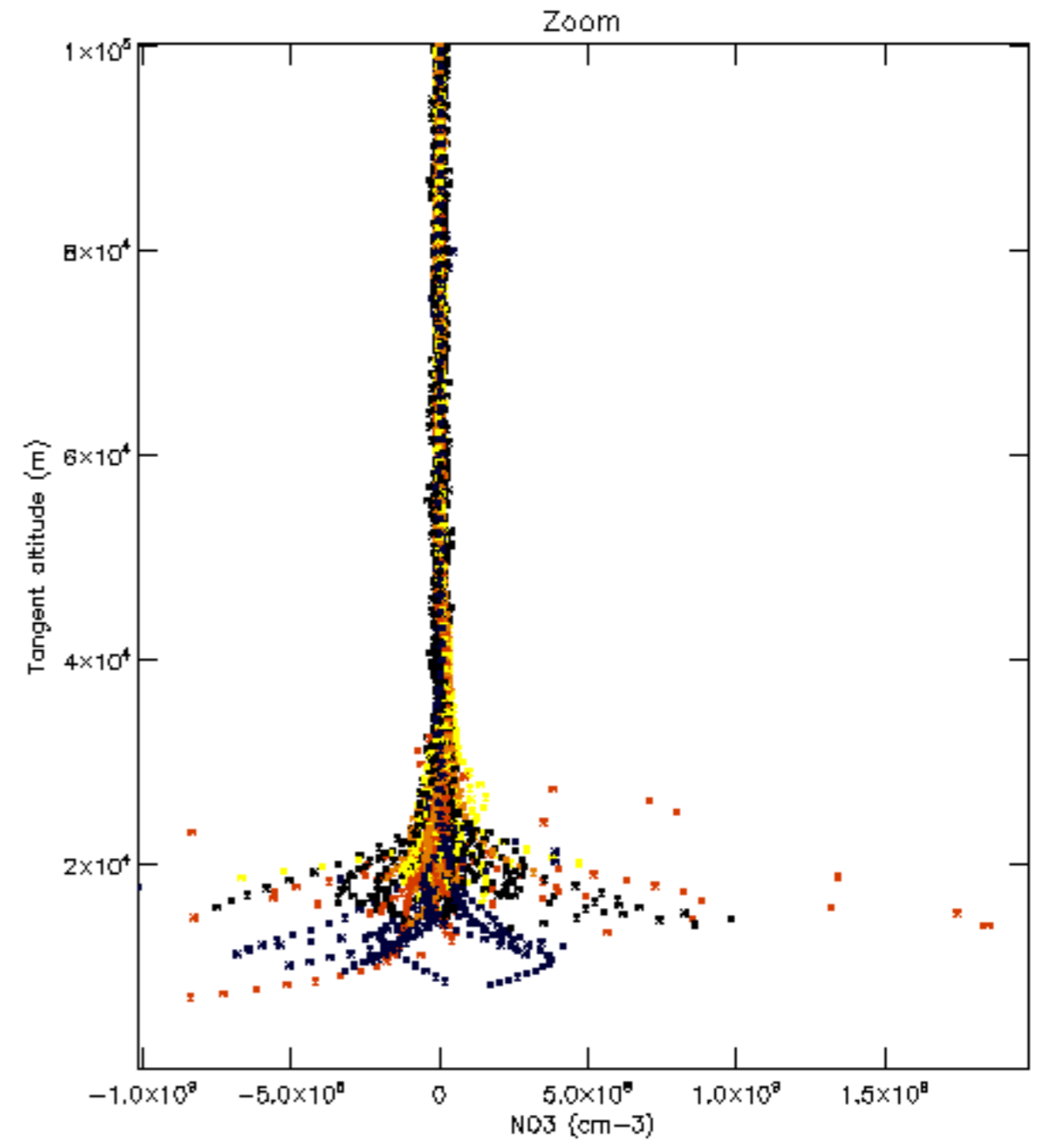
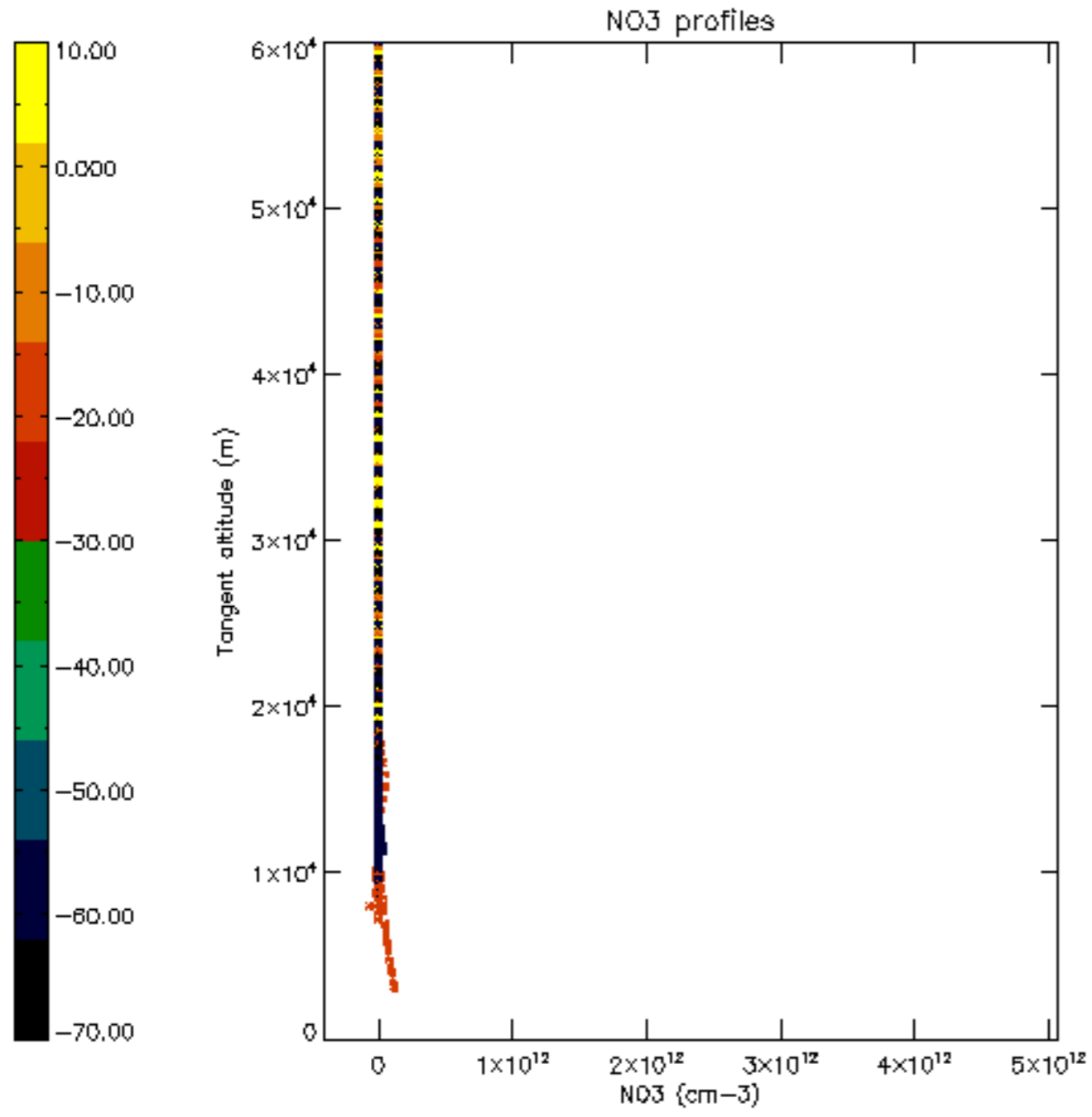


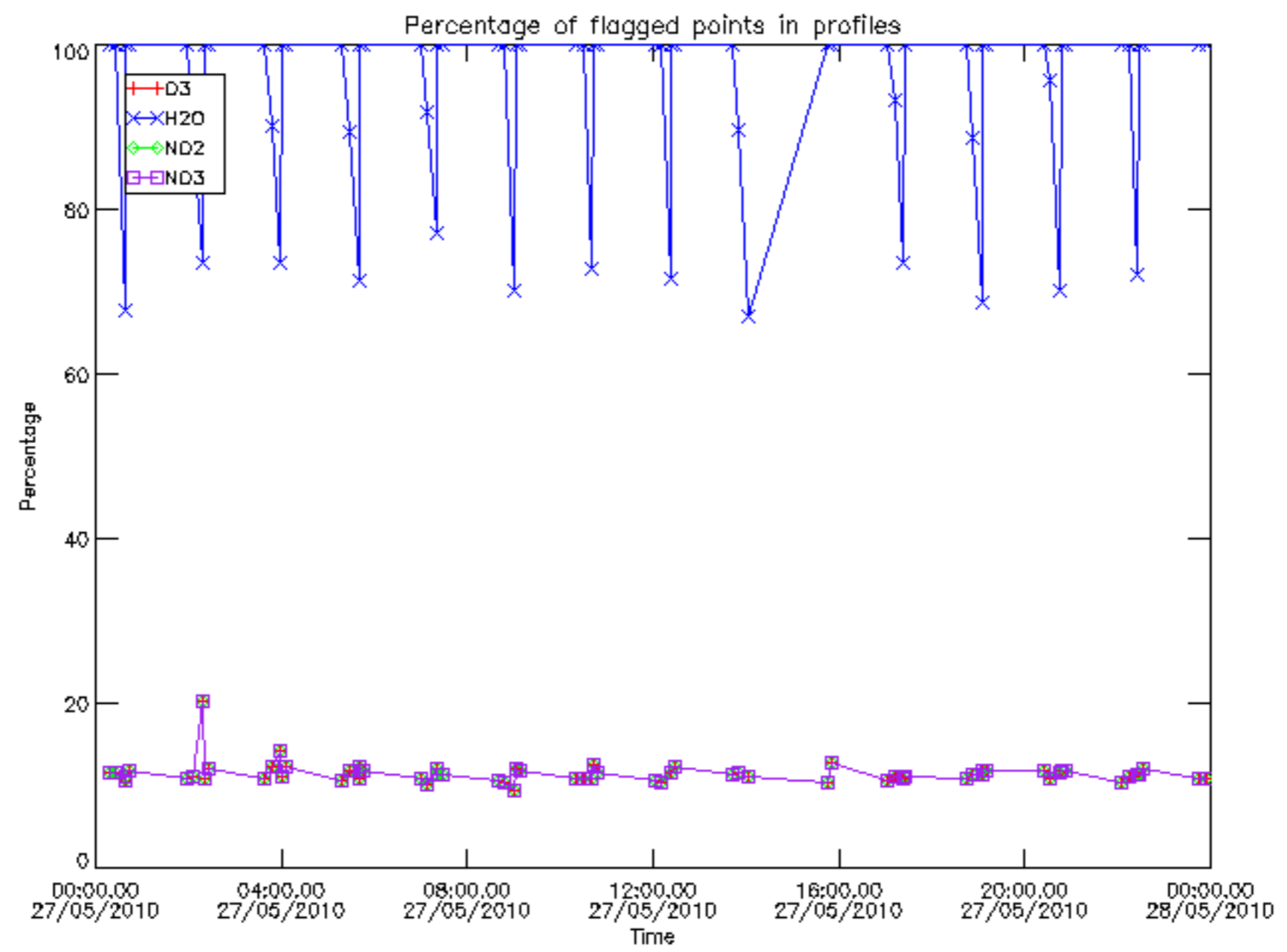




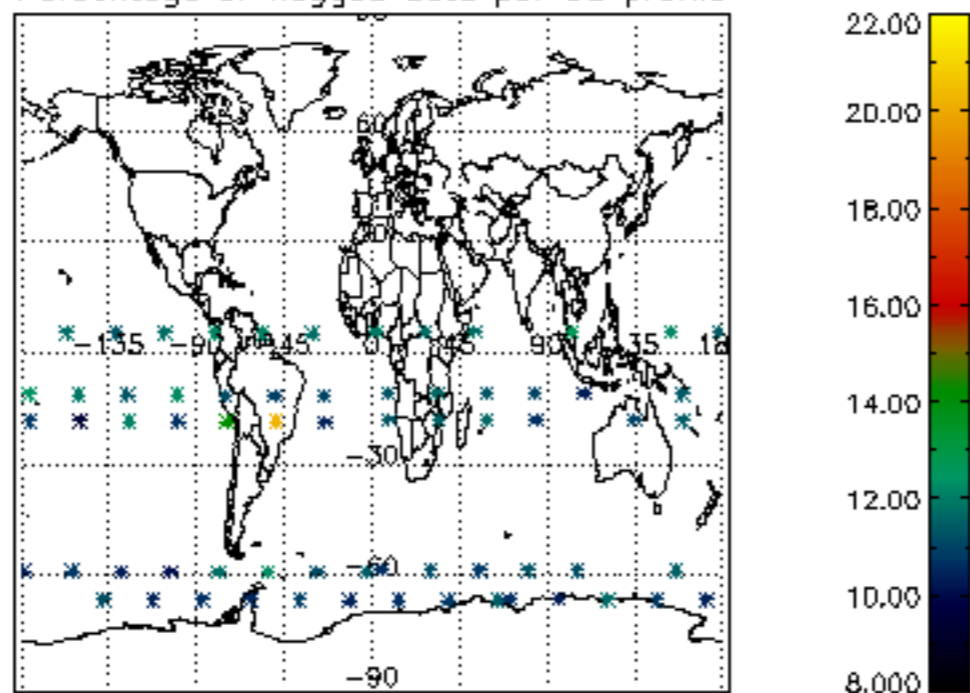




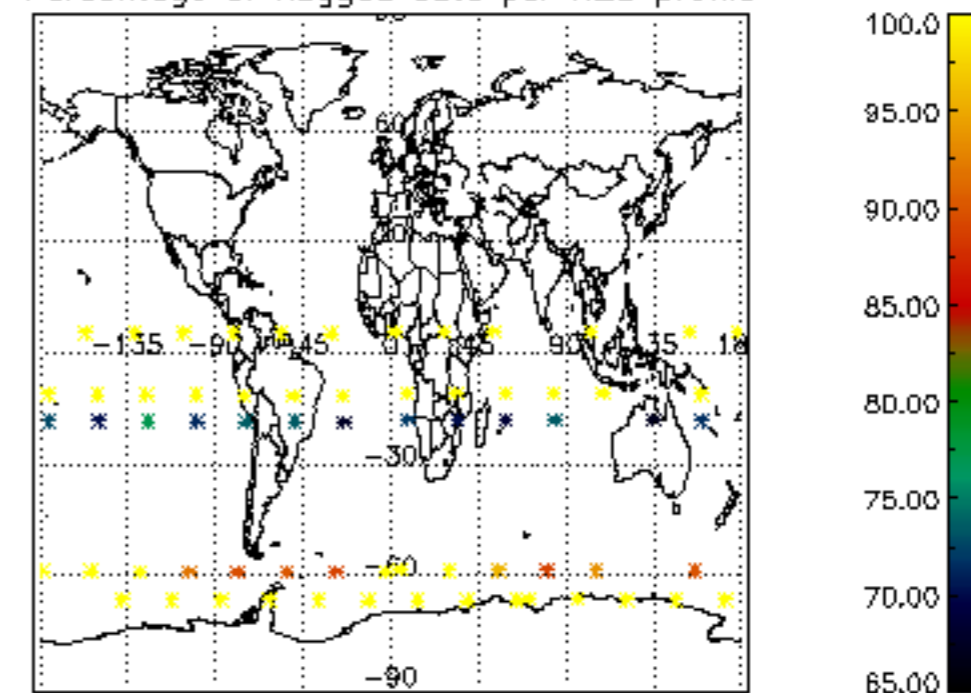




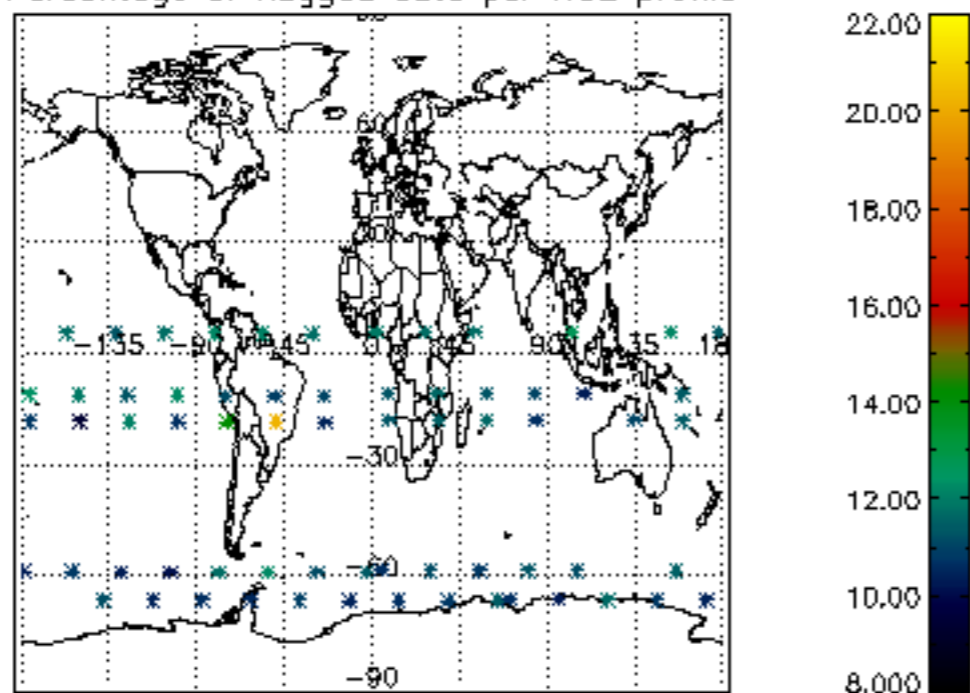
Percentage of flagged data per D3 profile



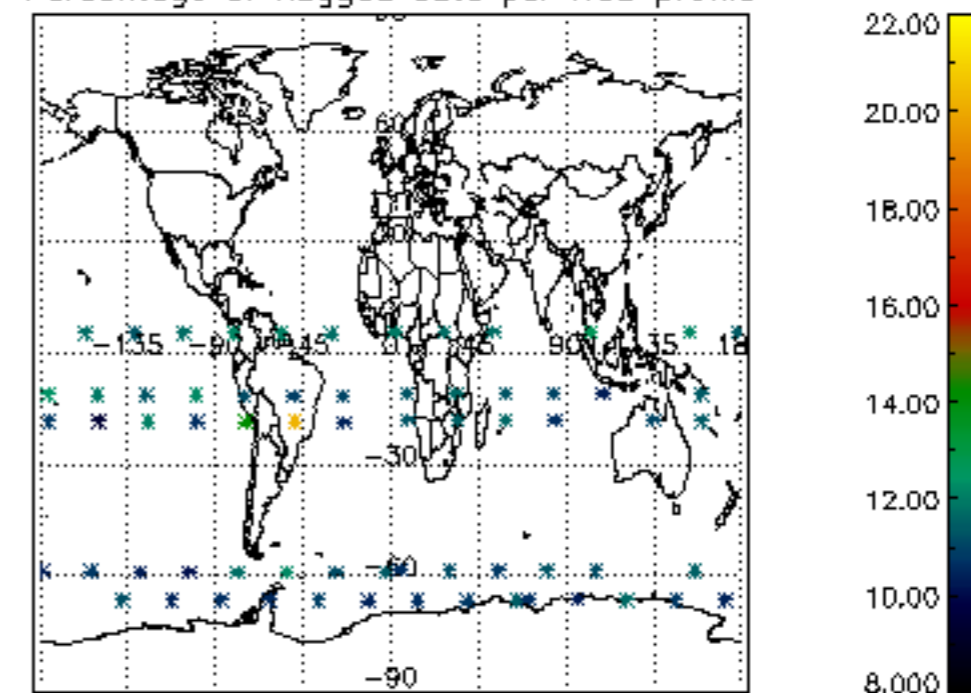
Percentage of flagged data per H2O profile

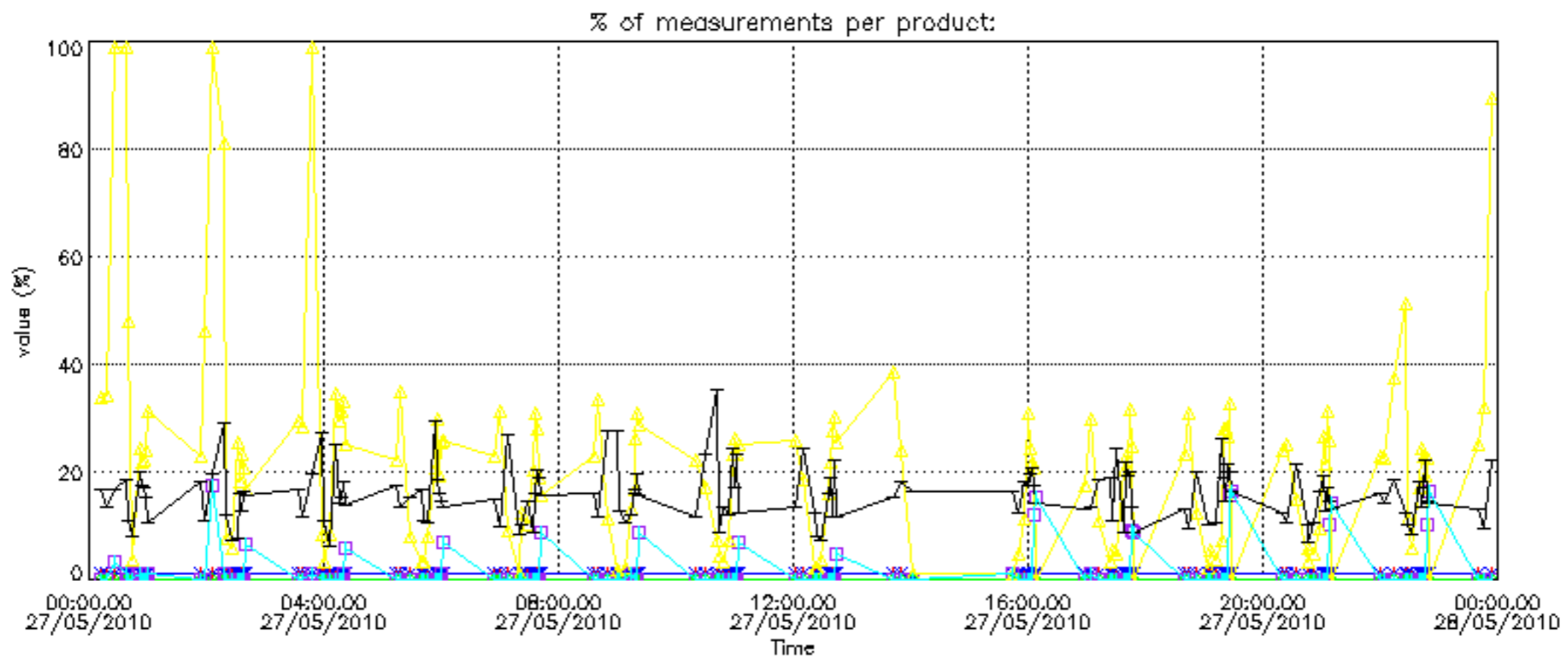


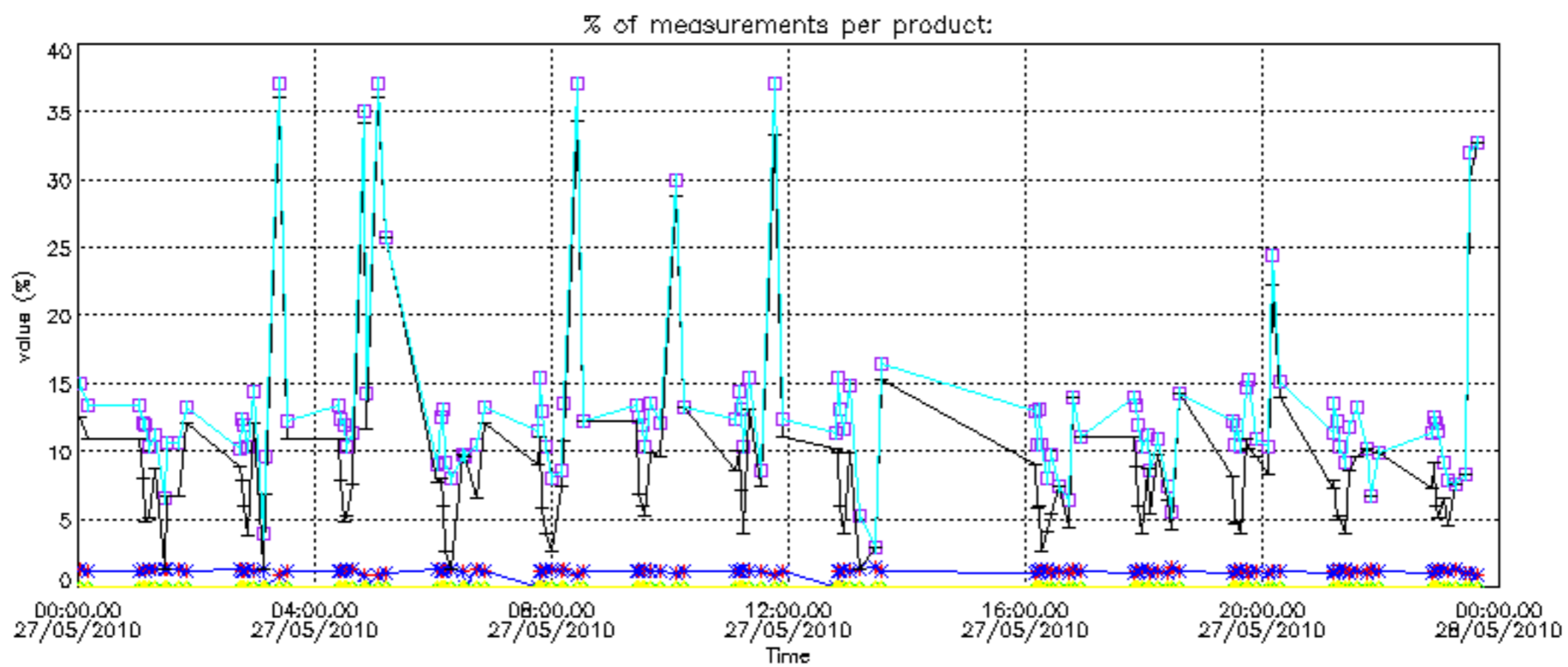
Percentage of flagged data per NO2 profile



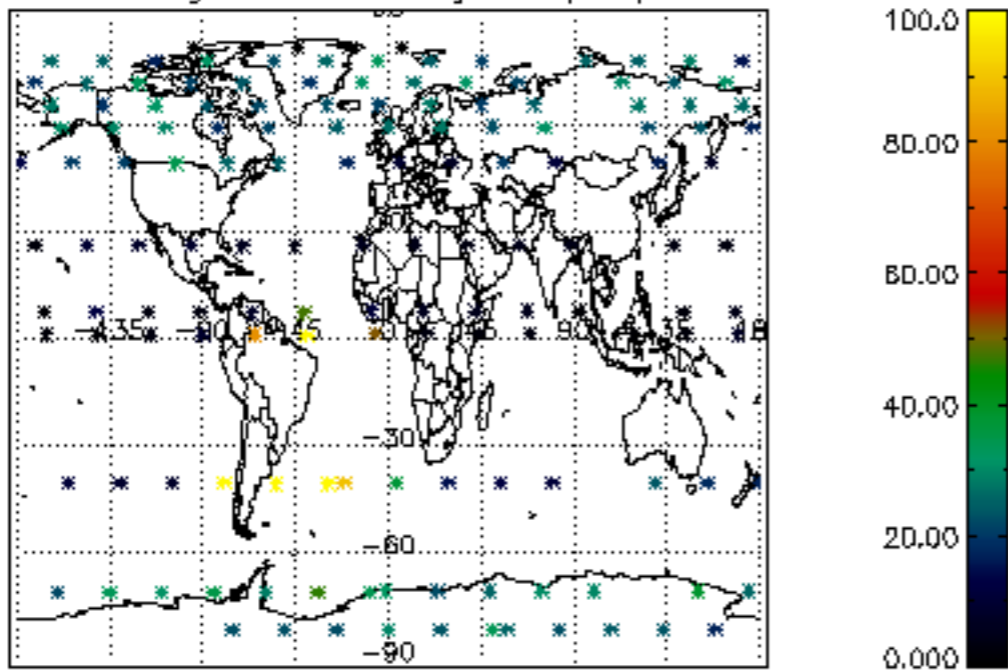
Percentage of flagged data per NO3 profile



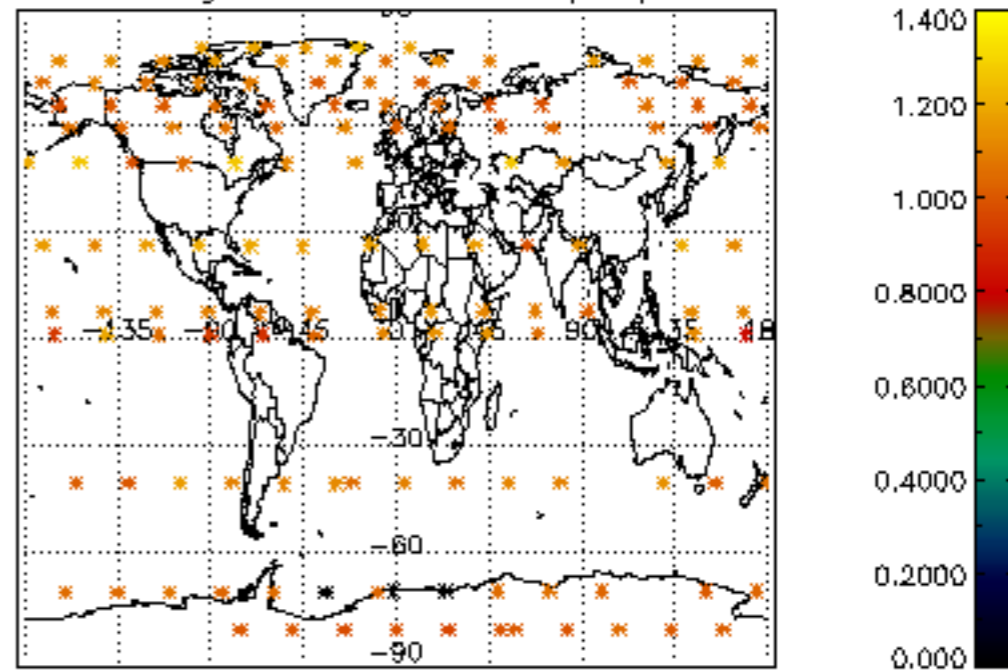




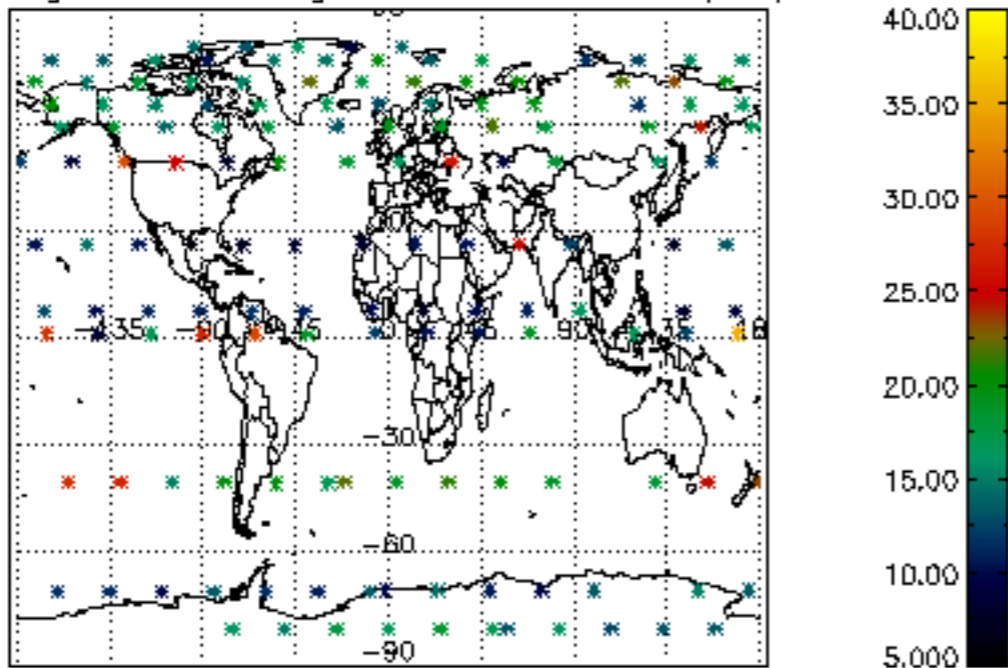
Percentage of cosmic ray hits per profile



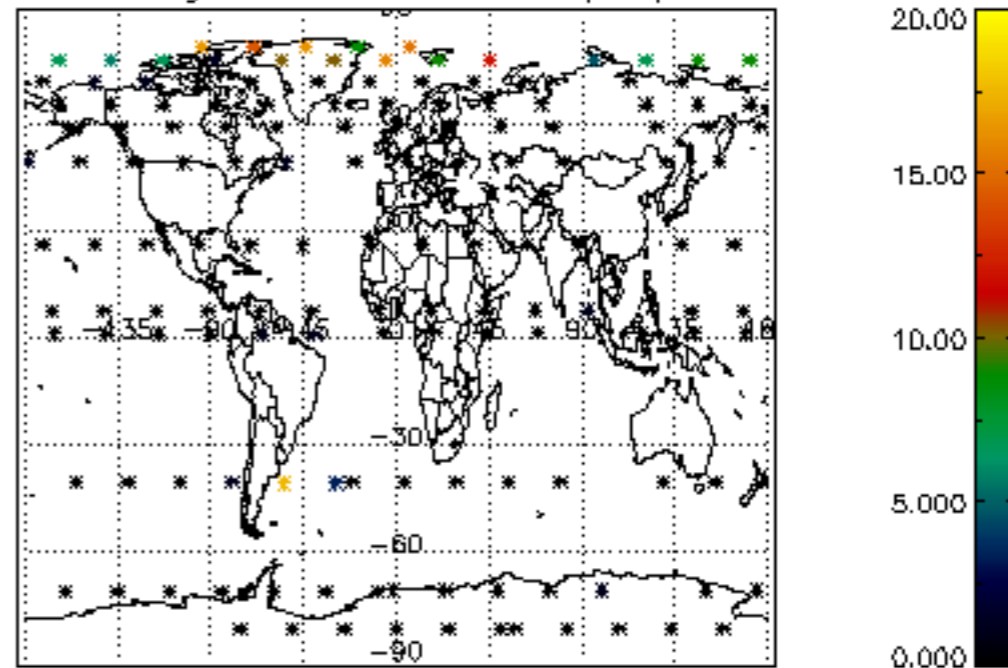
Percentage of datation errors per profile



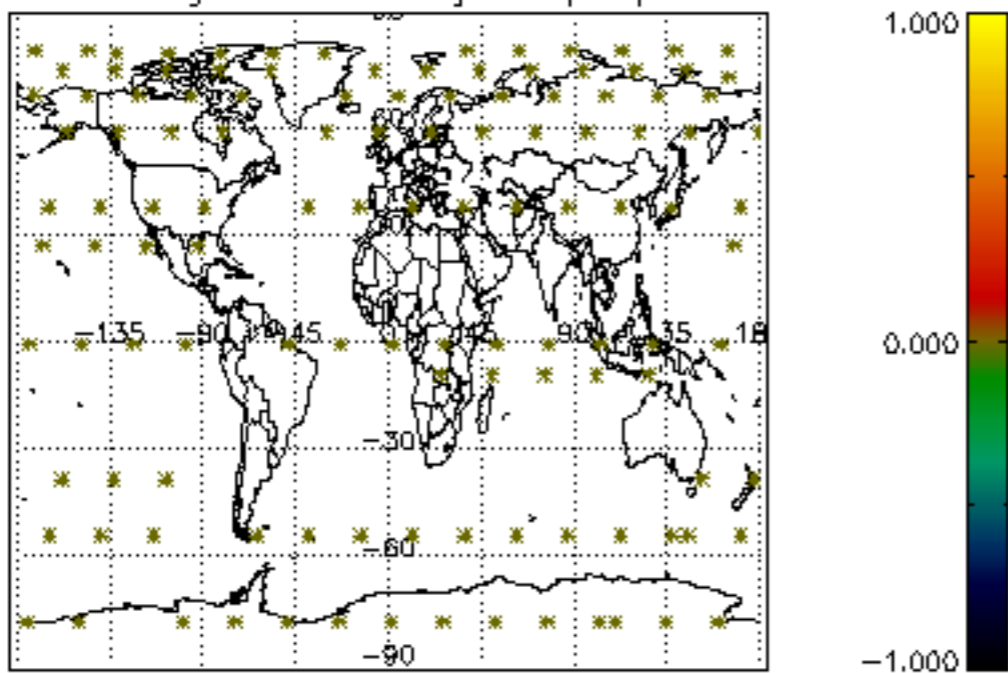
Percentage of star falling outside central band per profile



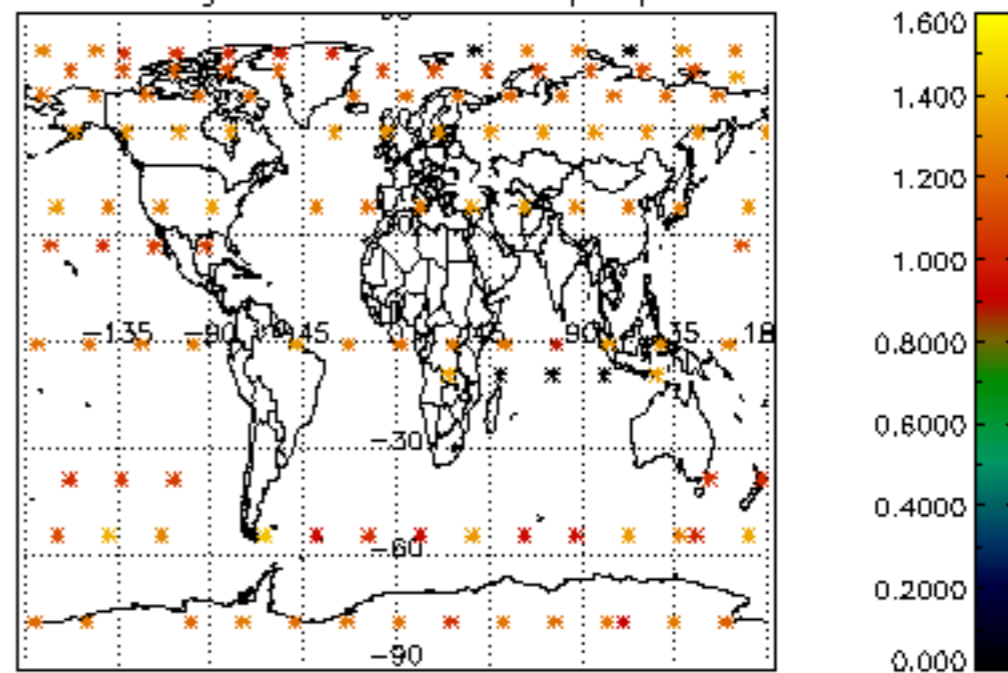
Percentage of saturation errors per profile



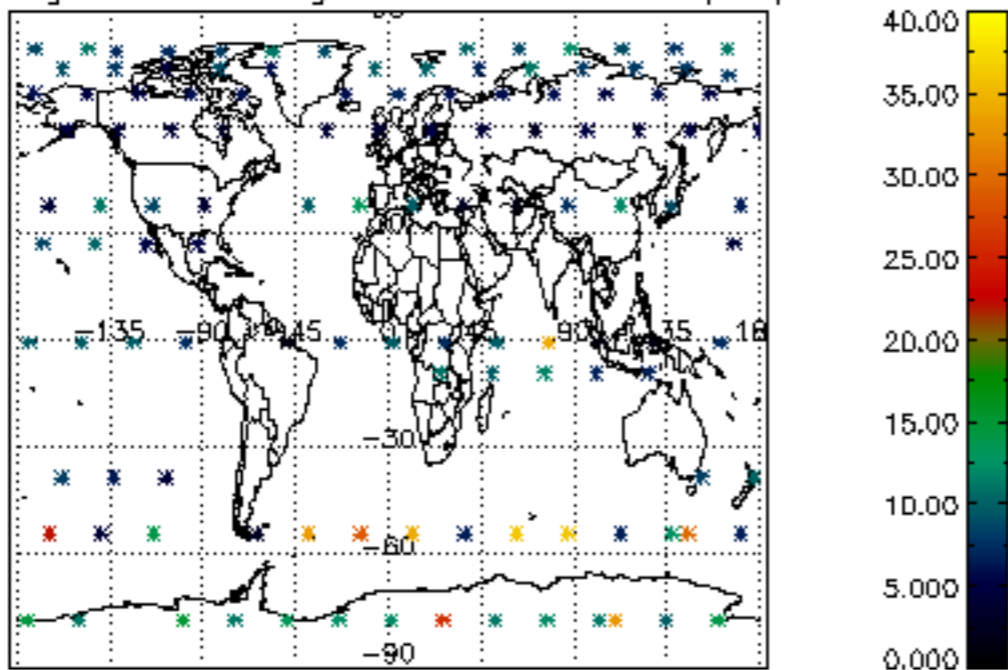
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

