

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	25APR2013 14:28:57
Data source version	GOMOS/6.01
Start time of products	20-05-2008 (20MAY2008 00:00:00)
Stop time of products	21-05-2008 (21MAY2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	354
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

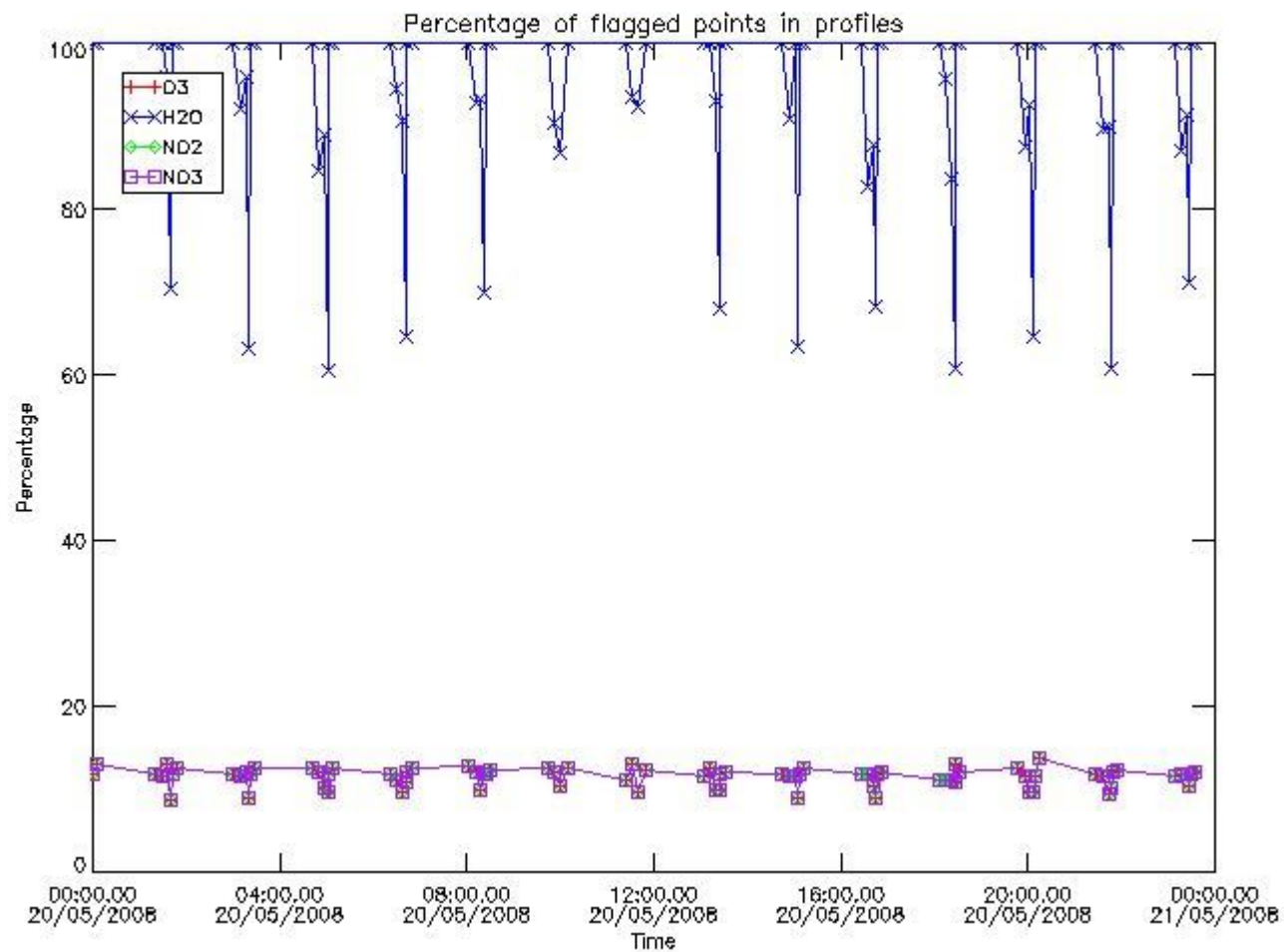
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20080520_000055_000000432068_00403_32521_1632.N1	20-MAY-2008 00:00:55	Dark	43.000	31	Alp Gru	1.7340	15200.	86	32521	No
2	GOM_NL__2PRFIN20080520_000624_000000392068_00403_32521_1633.N1	20-MAY-2008 00:06:24	Dark	39.000	45	Alp Pav	1.9400	26000.	78	32521	No
3	GOM_NL__2PRFIN20080520_001322_000000442068_00403_32521_1634.N1	20-MAY-2008 00:13:22	Straylight	43.500	141	Bet Ara	2.8400	4600.0	87	32521	No
4	GOM_NL__2PRFIN20080520_001603_000000512068_00403_32521_1635.N1	20-MAY-2008 00:16:03	Straylight	51.000	40	The Sco	1.8590	7100.0	102	32521	No
5	GOM_NL__2PRFIN20080520_001755_000000542068_00403_32521_1636.N1	20-MAY-2008 00:17:55	Straylight	54.000	25	35Lam Sco	1.6200	28000.	108	32521	No
6	GOM_NL__2PRFIN20080520_002005_000000522068_00403_32521_1637.N1	20-MAY-2008 00:20:05	Twilight	51.500	75	26Eps Sco	2.2910	4250.0	103	32521	No
7	GOM_NL__2PRFIN20080520_002302_000000622068_00403_32521_1638.N1	20-MAY-2008 00:23:02	Twilight	62.000	16	21Alp Sco	1.0200	3000.0	124	32521	No
8	GOM_NL__2PRFIN20080520_002531_000000422068_00403_32521_1639.N1	20-MAY-2008 00:25:31	Bright	42.000	97	8Bet1Sco	2.5610	30000.	84	32521	No
9	GOM_NL__2PRFIN20080520_002717_000000372068_00403_32521_1640.N1	20-MAY-2008 00:27:17	Bright	37.000	122	9Alp2Lib	2.7470	9700.0	74	32521	No
10	GOM_NL__2PRFIN20080520_002904_000000382068_00403_32521_1641.N1	20-MAY-2008 00:29:04	Bright	38.000	104	27Bet Lib	2.6140	13100.	76	32521	No
11	GOM_NL__2PRFIN20080520_003406_000000412068_00403_32521_1642.N1	20-MAY-2008 00:34:06	Bright	41.000	102	24Alp Ser	2.6000	4250.0	82	32521	No
12	GOM_NL__2PRFIN20080520_003728_000000352068_00403_32521_1643.N1	20-MAY-2008 00:37:28	Bright	34.500	3	16Alp Boo	-0.050000	4250.0	69	32521	No
13	GOM_NL__2PRFIN20080520_003947_000000362068_00403_32521_1644.N1	20-MAY-2008 00:39:47	Bright	36.000	83		2.3780	11000.	72	32521	No
14	GOM_NL__2PRFIN20080520_004256_000000352068_00403_32521_1645.N1	20-MAY-2008 00:42:56	Bright	35.000	180	27Gam Boo	3.0400	8000.0	70	32521	No
15	GOM_NL__2PRFIN20080520_004600_000000332068_00403_32521_1646.N1	20-MAY-2008 00:46:00	Bright	32.500	39	85Eta UMa	1.8540	24000.	65	32521	No
16	GOM_NL__2PRFIN20080520_005118_000000412068_00403_32521_1647.N1	20-MAY-2008 00:51:18	Bright	41.000	119	14Eta Dra	2.7270	4700.0	82	32521	No
17	GOM_NL__2PRFIN20080520_005310_000000362068_00403_32521_1648.N1	20-MAY-2008 00:53:10	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	32521	No
18	GOM_NL__2PRFIN20080520_005740_000000342068_00403_32521_1649.N1	20-MAY-2008 00:57:40	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	32521	No
19	GOM_NL__2PRFIN20080520_010551_000000352068_00403_32521_1650.N1	20-MAY-2008 01:05:51	Bright	35.000	76	27Gam Cas	2.3000	30000.	70	32521	No
20	GOM_NL__2PRFIN20080520_010704_000000542068_00403_32521_1651.N1	20-MAY-2008 01:07:04	Bright	54.000	68	18Alp Cas	2.2250	4500.0	108	32521	No
21	GOM_NL__2PRFIN20080520_011538_000000452068_00403_32521_1652.N1	20-MAY-2008 01:15:38	Twilight	44.500	58	21Alp And	2.0730	11000.	89	32521	No
22	GOM_NL__2PRFIN20080520_011957_000000432068_00403_32521_1653.N1	20-MAY-2008 01:19:57	Dark	43.000	140	88Gam Peg	2.8340	26000.	86	32521	No
23	GOM_NL__2PRFIN20080520_012843_000000442068_00403_32521_1654.N1	20-MAY-2008 01:28:43	Dark	44.000	52	16Bet Cet	2.0370	4500.0	88	32521	No
24	GOM_NL__2PRFIN20080520_013547_000000512068_00403_32521_1655.N1	20-MAY-2008 01:35:47	Dark	50.500	18	24Alp PsA	1.1660	9700.0	101	32521	No
25	GOM_NL__2PRFIN20080520_013956_000000582068_00403_32521_1656.N1	20-MAY-2008 01:39:56	Dark	58.000	63	Bet Gru	2.1500	2800.0	116	32521	No
26	GOM_NL__2PRFIN20080520_014132_000000442068_00404_32522_1626.N1	20-MAY-2008 01:41:32	Dark	43.500	31	Alp Gru	1.7340	15200.	87	32522	No
27	GOM_NL__2PRFIN20080520_014700_000000412068_00404_32522_1627.N1	20-MAY-2008 01:47:00	Dark	41.000	45	Alp Pav	1.9400	26000.	82	32522	No
28	GOM_NL__2PRFIN20080520_015358_000000432068_00404_32522_1628.N1	20-MAY-2008 01:53:58	Straylight	43.000	141	Bet Ara	2.8400	4600.0	86	32522	No
29	GOM_NL__2PRFIN20080520_015640_000000492068_00404_32522_1629.N1	20-MAY-2008 01:56:40	Straylight	48.500	40	The Sco	1.8590	7100.0	97	32522	No
30	GOM_NL__2PRFIN20080520_015831_000000512068_00404_32522_1630.N1	20-MAY-2008 01:58:31	Straylight	51.000	25	35Lam Sco	1.6200	28000.	102	32522	No
31	GOM_NL__2PRFIN20080520_020041_000000472068_00404_32522_1631.N1	20-MAY-2008 02:00:41	Twilight	46.500	75	26Eps Sco	2.2910	4250.0	93	32522	No
32	GOM_NL__2PRFIN20080520_020338_000000592068_00404_32522_1632.N1	20-MAY-2008 02:03:38	Twilight	59.000	16	21Alp Sco	1.0200	3000.0	118	32522	No
33	GOM_NL__2PRFIN20080520_020607_000000432068_00404_32522_1633.N1	20-MAY-2008 02:06:07	Bright	43.000	97	8Bet1Sco	2.5610	30000.	86	32522	No
34	GOM_NL__2PRFIN20080520_020754_000000372068_00404_32522_1634.N1	20-MAY-2008 02:07:54	Bright	36.500	122	9Alp2Lib	2.7470	9700.0	73	32522	No
35	GOM_NL__2PRFIN20080520_020940_000000392068_00404_32522_1635.N1	20-MAY-2008 02:09:40	Bright	38.500	104	27Bet Lib	2.6140	13100.	77	32522	No
36	GOM_NL__2PRFIN20080520_021442_000000412068_00404_32522_1636.N1	20-MAY-2008 02:14:42	Bright	41.000	102	24Alp Ser	2.6000	4250.0	82	32522	No
37	GOM_NL__2PRFIN20080520_021804_000000362068_00404_32522_1637.N1	20-MAY-2008 02:18:04	Bright	35.500	3	16Alp Boo	-0.050000	4250.0	71	32522	No
38	GOM_NL__2PRFIN20080520_022023_000000392068_00404_32522_1638.N1	20-MAY-2008 02:20:23	Bright	39.000	83		2.3780	11000.	78	32522	No
39	GOM_NL__2PRFIN20080520_022332_000000352068_00404_32522_1639.N1	20-MAY-2008 02:23:32	Bright	35.000	180	27Gam Boo	3.0400	8000.0	70	32522	No
40	GOM_NL__2PRFIN20080520_022636_000000502068_00404_32522_1640.N1	20-MAY-2008 02:26:36	Bright	49.500	39	85Eta UMa	1.8540	24000.	99	32522	No
41	GOM_NL__2PRFIN20080520_023153_000000392068_00404_32522_1641.N1	20-MAY-2008 02:31:53	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	32522	No
42	GOM_NL__2PRFIN20080520_023345_000000342068_00404_32522_1642.N1	20-MAY-2008 02:33:45	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	32522	No

338	GOM_NL__2PRFIN20080520_225338_000000532068_00416_32534_1865.N1	20-MAY-2008 22:53:38	Bright	53.000	76	27Gam Cas	2.3000	30000.	106	32534	No
339	GOM_NL__2PRFIN20080520_225451_000000542068_00416_32534_1866.N1	20-MAY-2008 22:54:51	Bright	54.000	68	18Alp Cas	2.2250	4500.0	108	32534	No
340	GOM_NL__2PRFIN20080520_230328_000000462068_00416_32534_1867.N1	20-MAY-2008 23:03:28	Twilight	46.000	58	21Alp And	2.0730	11000.	92	32534	No
341	GOM_NL__2PRFIN20080520_230748_000000442068_00416_32534_1868.N1	20-MAY-2008 23:07:48	Dark	44.000	140	88Gam Peg	2.8340	26000.	88	32534	No
342	GOM_NL__2PRFIN20080520_231635_000000432068_00416_32534_1869.N1	20-MAY-2008 23:16:35	Dark	42.500	52	16Bet Cet	2.0370	4500.0	85	32534	No
343	GOM_NL__2PRFIN20080520_232346_000000522068_00416_32534_1870.N1	20-MAY-2008 23:23:46	Dark	52.000	18	24Alp PsA	1.1660	9700.0	104	32534	No
344	GOM_NL__2PRFIN20080520_232752_000000592068_00416_32534_1871.N1	20-MAY-2008 23:27:52	Dark	59.000	63	Bet Gru	2.1500	2800.0	118	32534	No
345	GOM_NL__2PRFIN20080520_232930_000000432068_00417_32535_1854.N1	20-MAY-2008 23:29:30	Dark	43.000	31	Alp Gru	1.7340	15200.	86	32535	No
346	GOM_NL__2PRFIN20080520_233457_000000432068_00417_32535_1855.N1	20-MAY-2008 23:34:57	Dark	42.500	45	Alp Pav	1.9400	26000.	85	32535	No
347	GOM_NL__2PRFIN20080520_234152_000000422068_00417_32535_1856.N1	20-MAY-2008 23:41:52	Straylight	41.500	141	Bet Ara	2.8400	4600.0	83	32535	No
348	GOM_NL__2PRFIN20080520_234435_000000492068_00417_32535_1857.N1	20-MAY-2008 23:44:35	Straylight	49.000	40	The Sco	1.8590	7100.0	98	32535	No
349	GOM_NL__2PRFIN20080520_234626_000000542068_00417_32535_1858.N1	20-MAY-2008 23:46:26	Straylight	53.500	25	35Lam Sco	1.6200	28000.	107	32535	No
350	GOM_NL__2PRFIN20080520_234833_000000492068_00417_32535_1859.N1	20-MAY-2008 23:48:33	Twilight	49.000	75	26Eps Sco	2.2910	4250.0	98	32535	No
351	GOM_NL__2PRFIN20080520_235153_000000452068_00417_32535_1860.N1	20-MAY-2008 23:51:53	Bright	45.000	156	20Sig Sco	2.9030	28000.	90	32535	No
352	GOM_NL__2PRFIN20080520_235356_000000412068_00417_32535_1861.N1	20-MAY-2008 23:53:56	Bright	41.000	97	8Bet1Sco	2.5610	30000.	82	32535	No
353	GOM_NL__2PRFIN20080520_235542_000000372068_00417_32535_1862.N1	20-MAY-2008 23:55:42	Bright	36.500	122	9Alp2Lib	2.7470	9700.0	73	32535	No
354	GOM_NL__2PRFIN20080520_235728_000000382068_00417_32535_1863.N1	20-MAY-2008 23:57:28	Bright	38.000	104	27Bet Lib	2.6140	13100.	76	32535	No

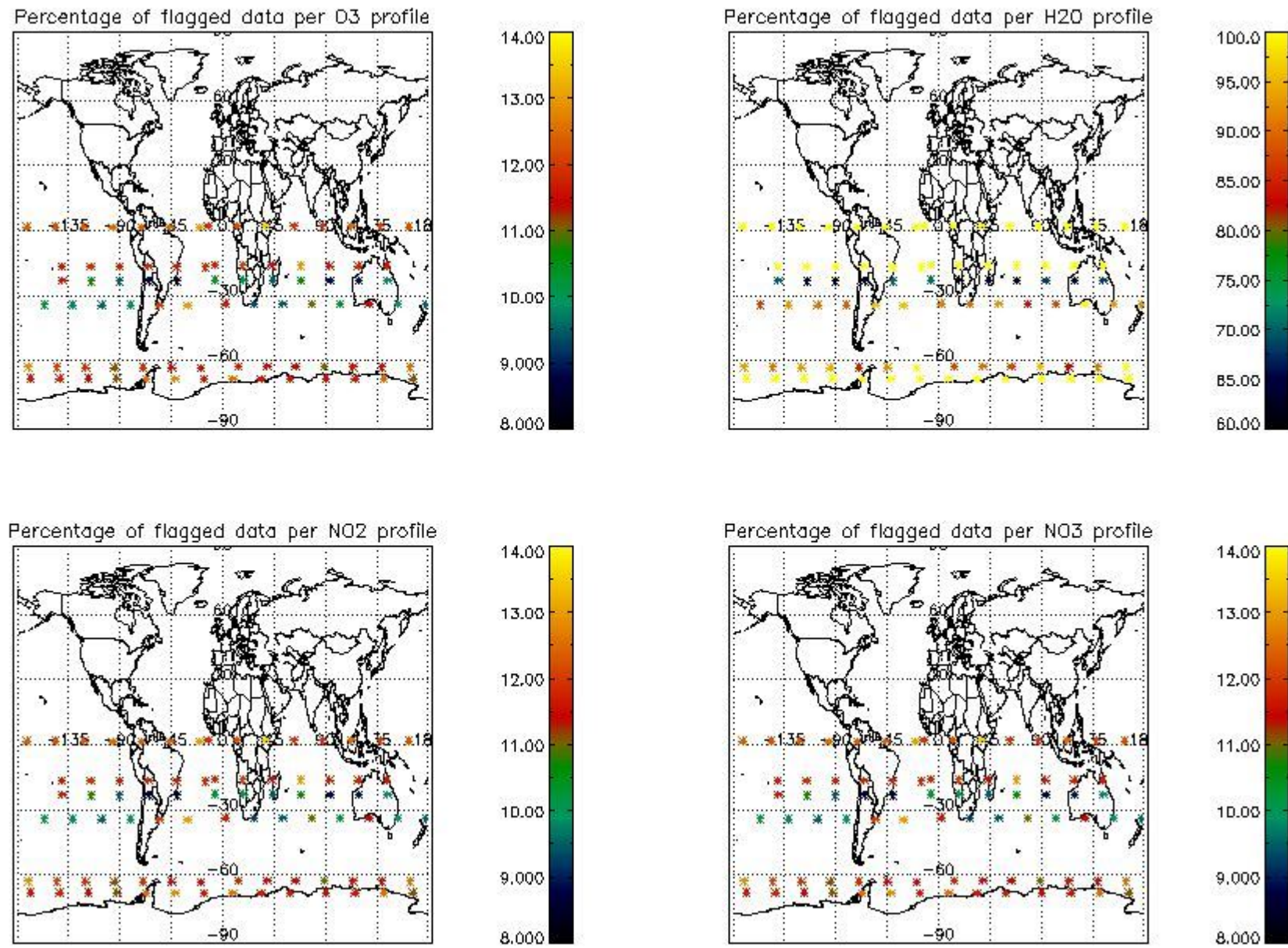
3. Quality information per product

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)

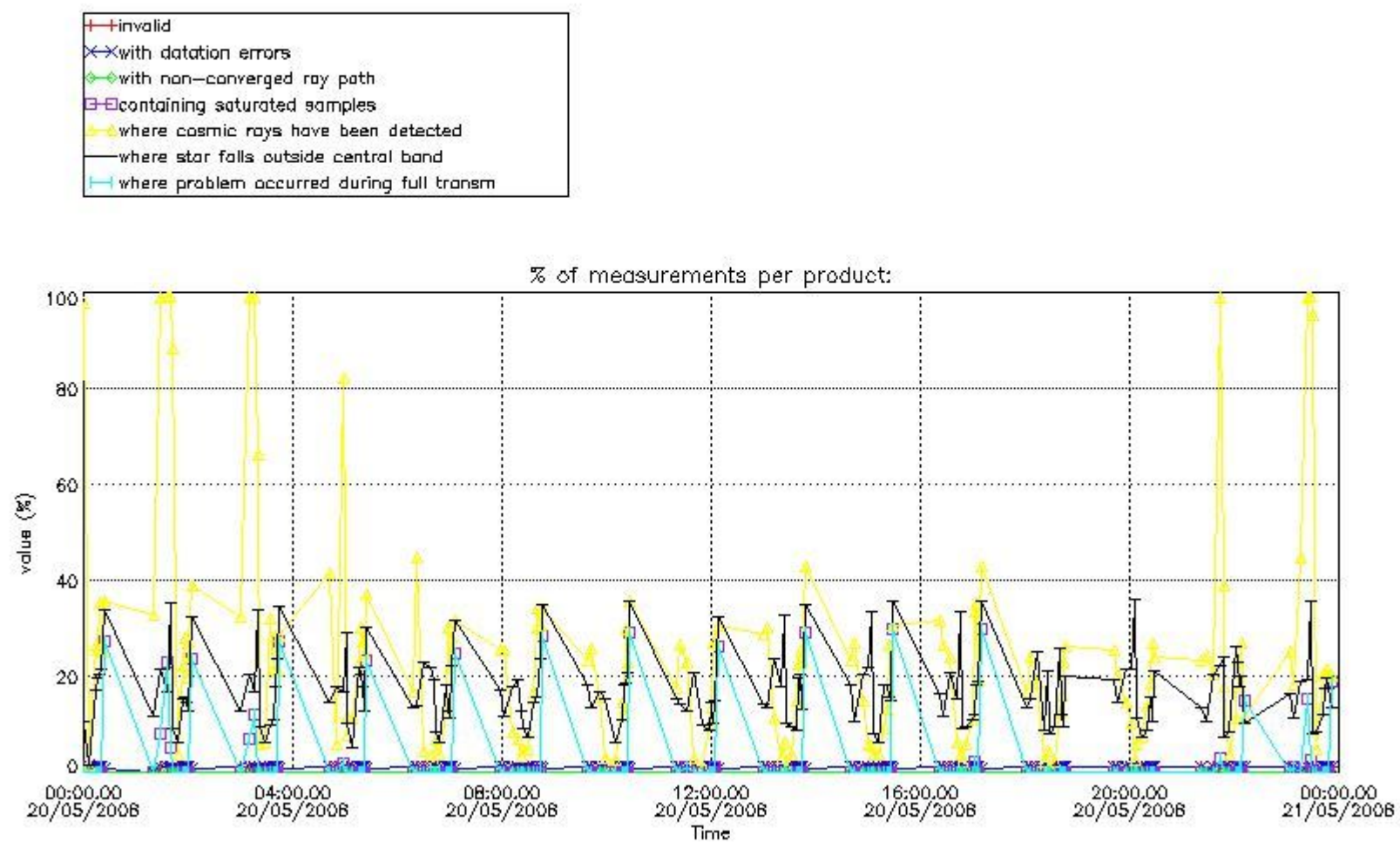


4. Level 1 quality information per product

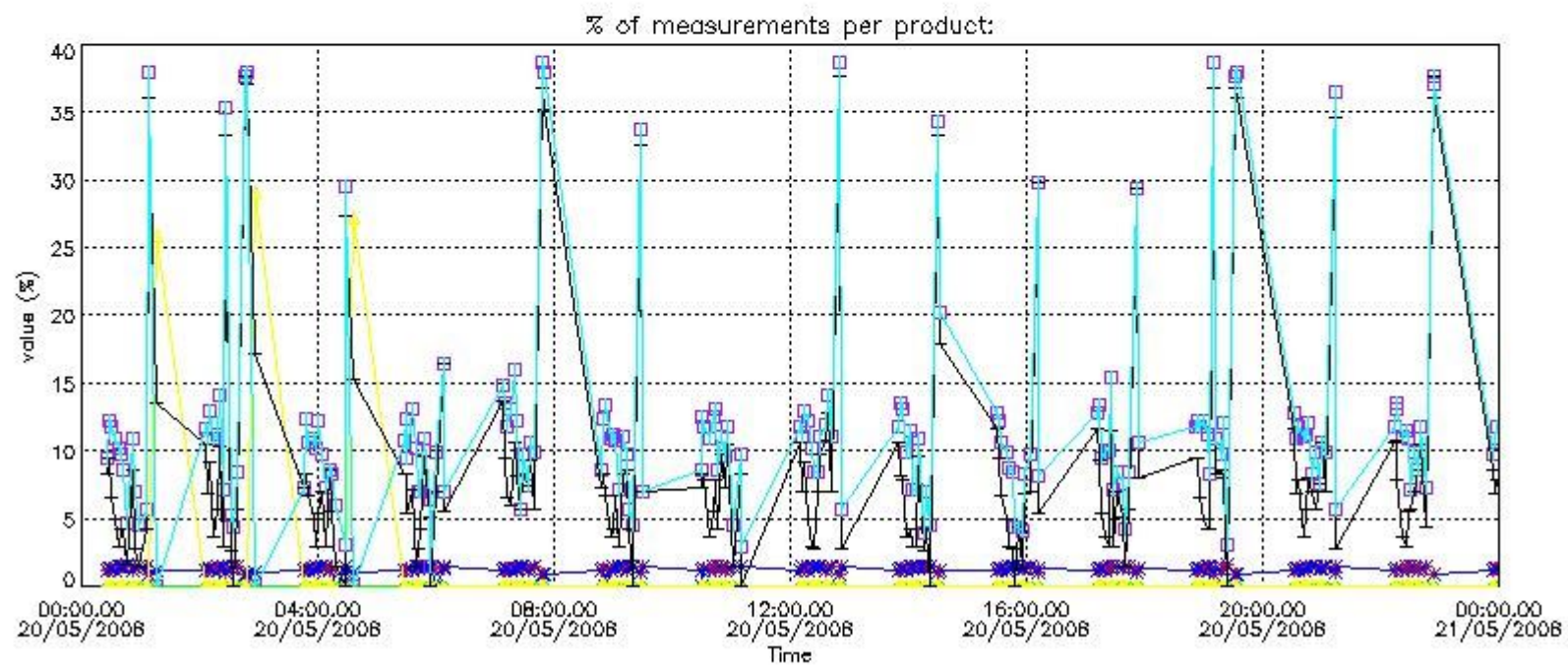
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

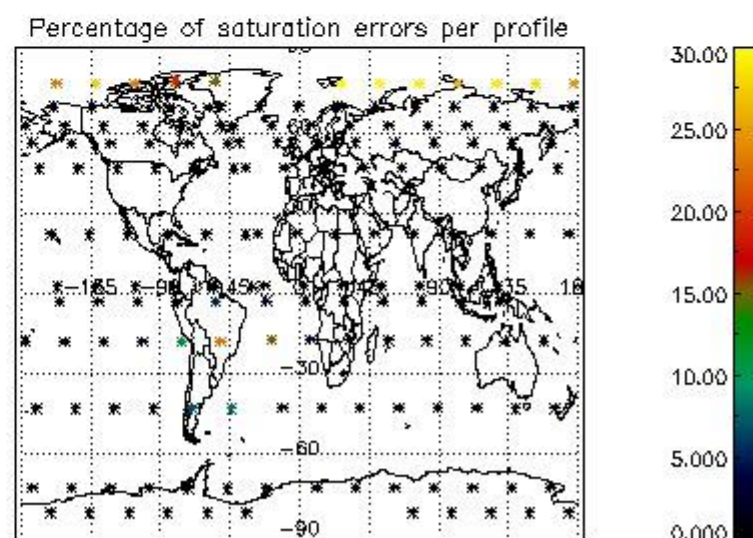
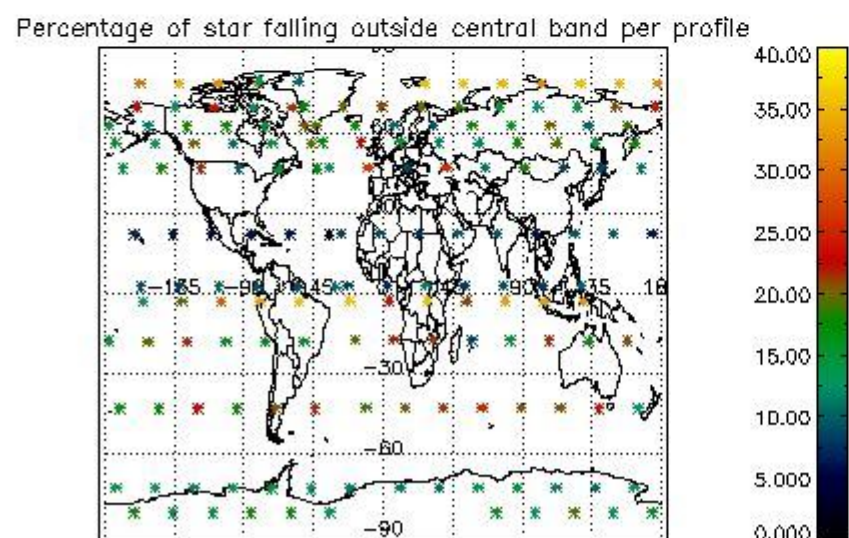
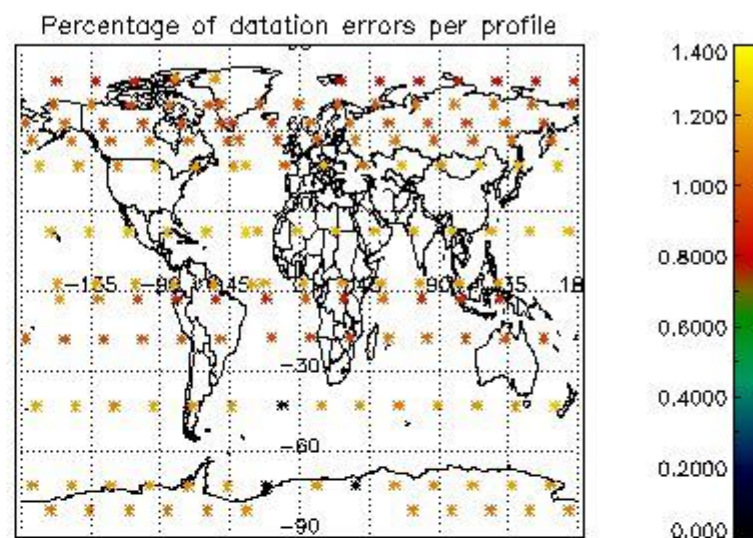
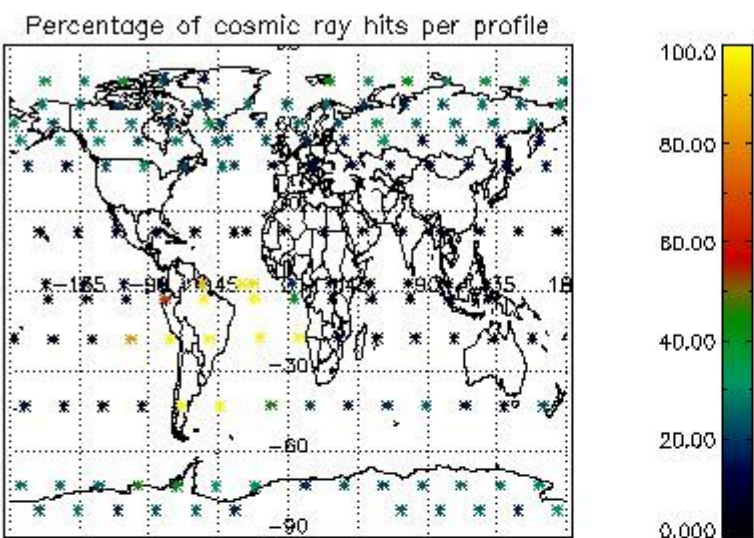


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

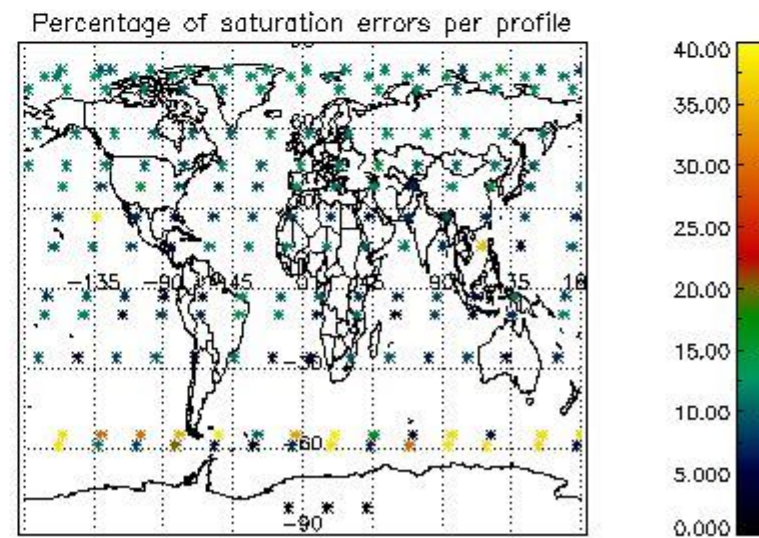
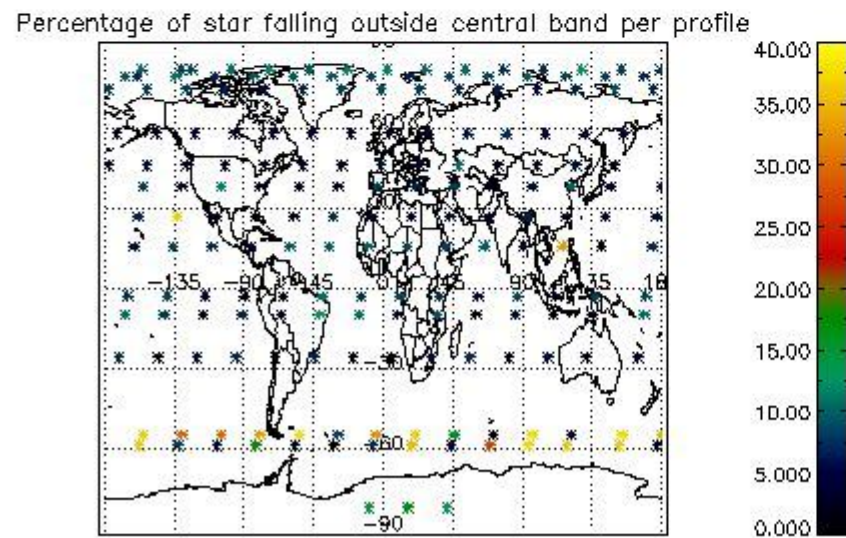
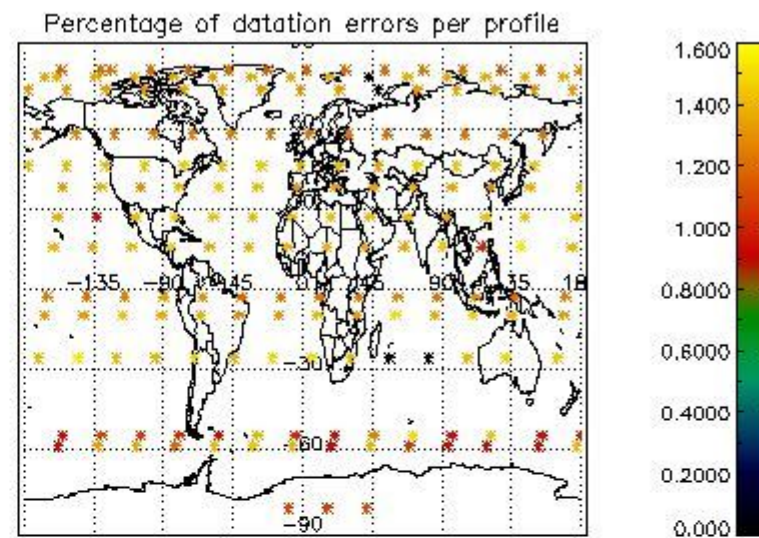
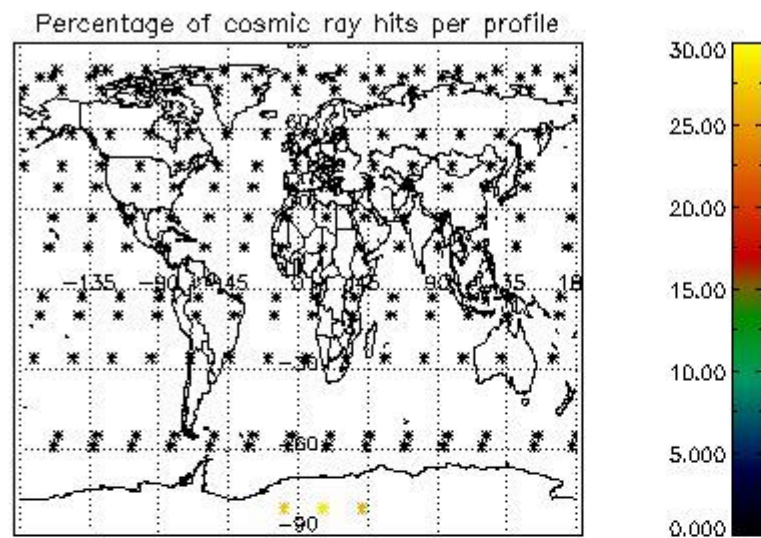


4.2 Plot quality information per product coming from level 1b processing (world map)

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

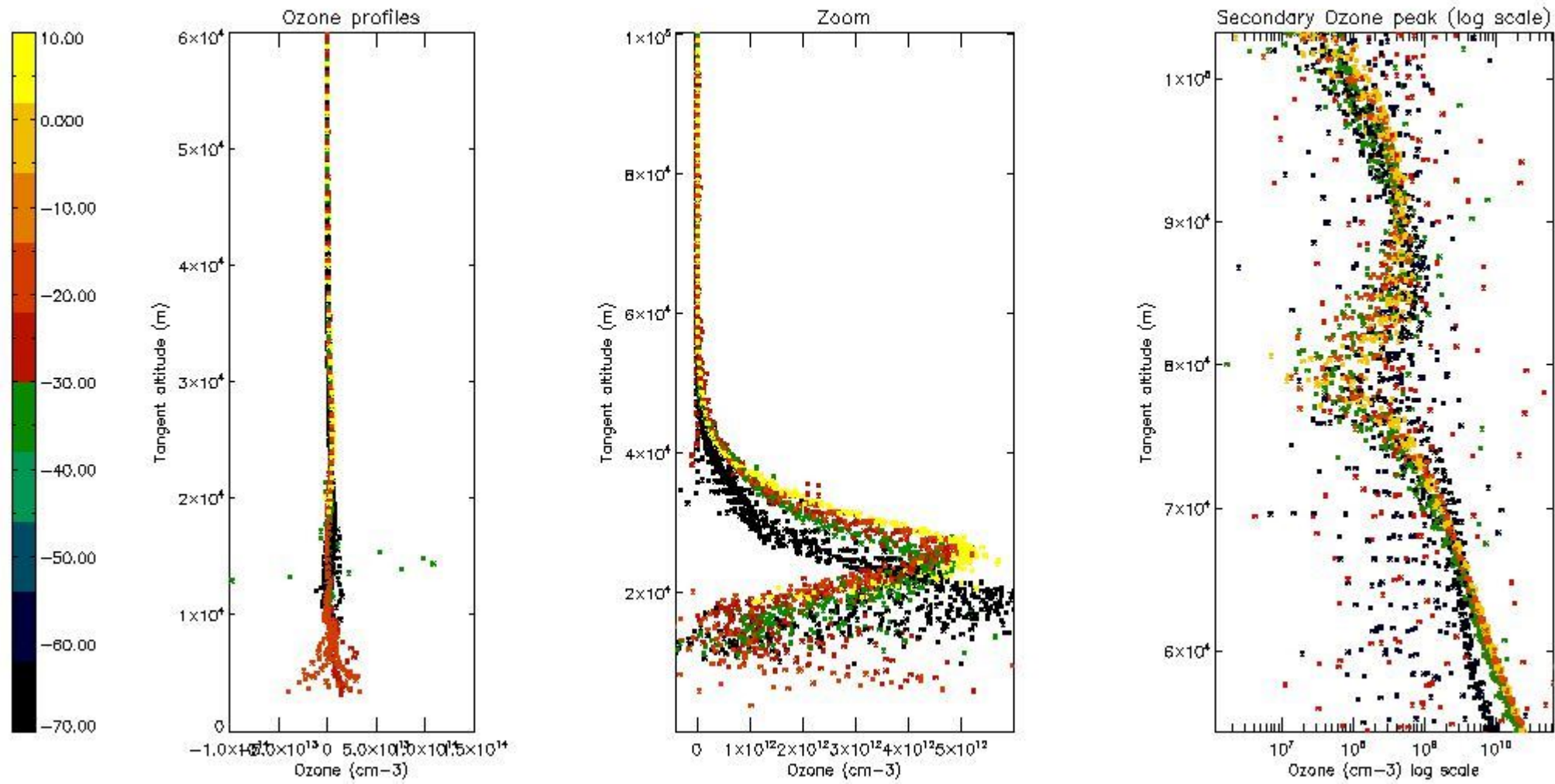
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	26
STD < 20	14

STD < 10	11
STD < 5	7

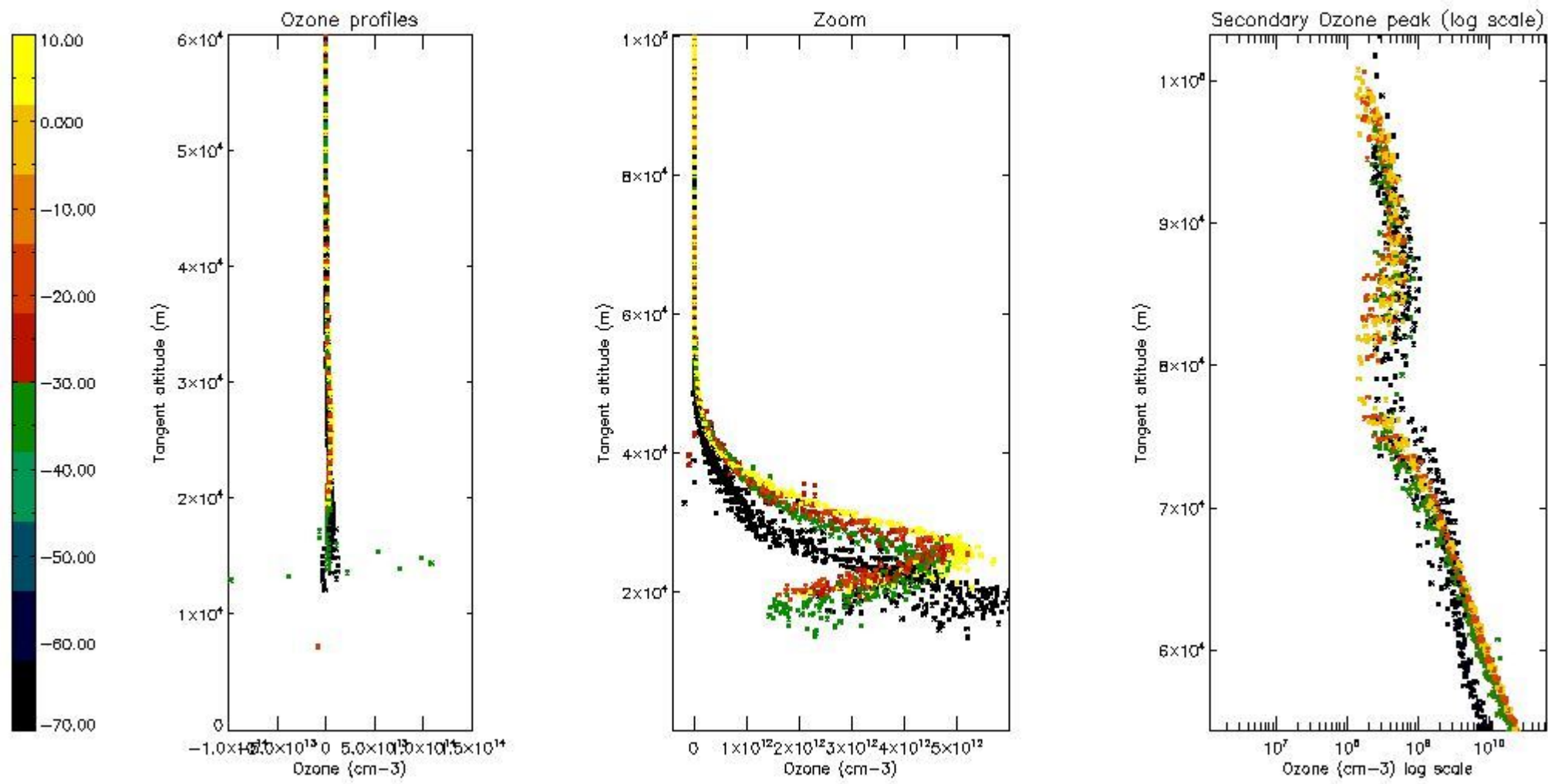
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



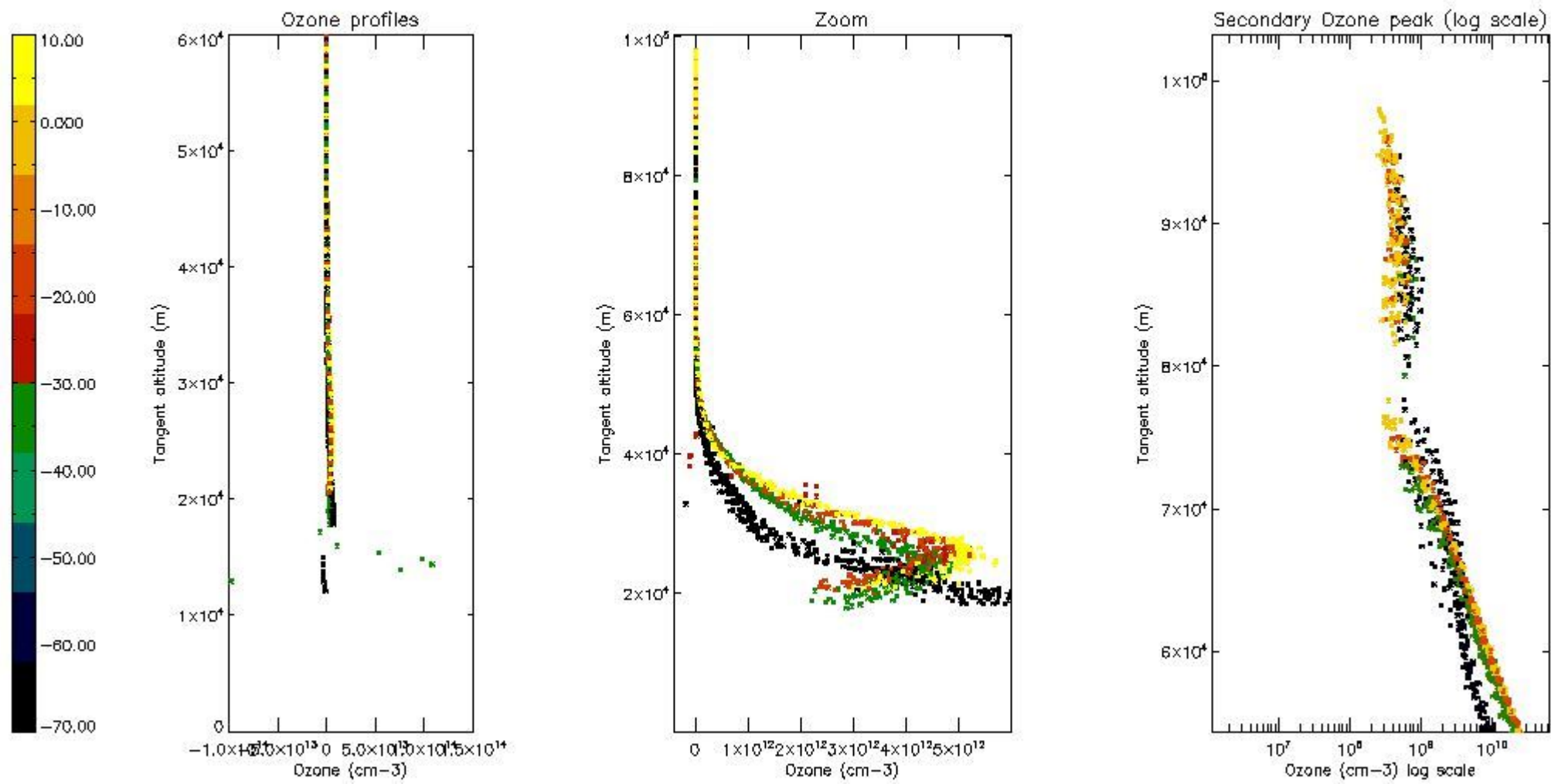
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



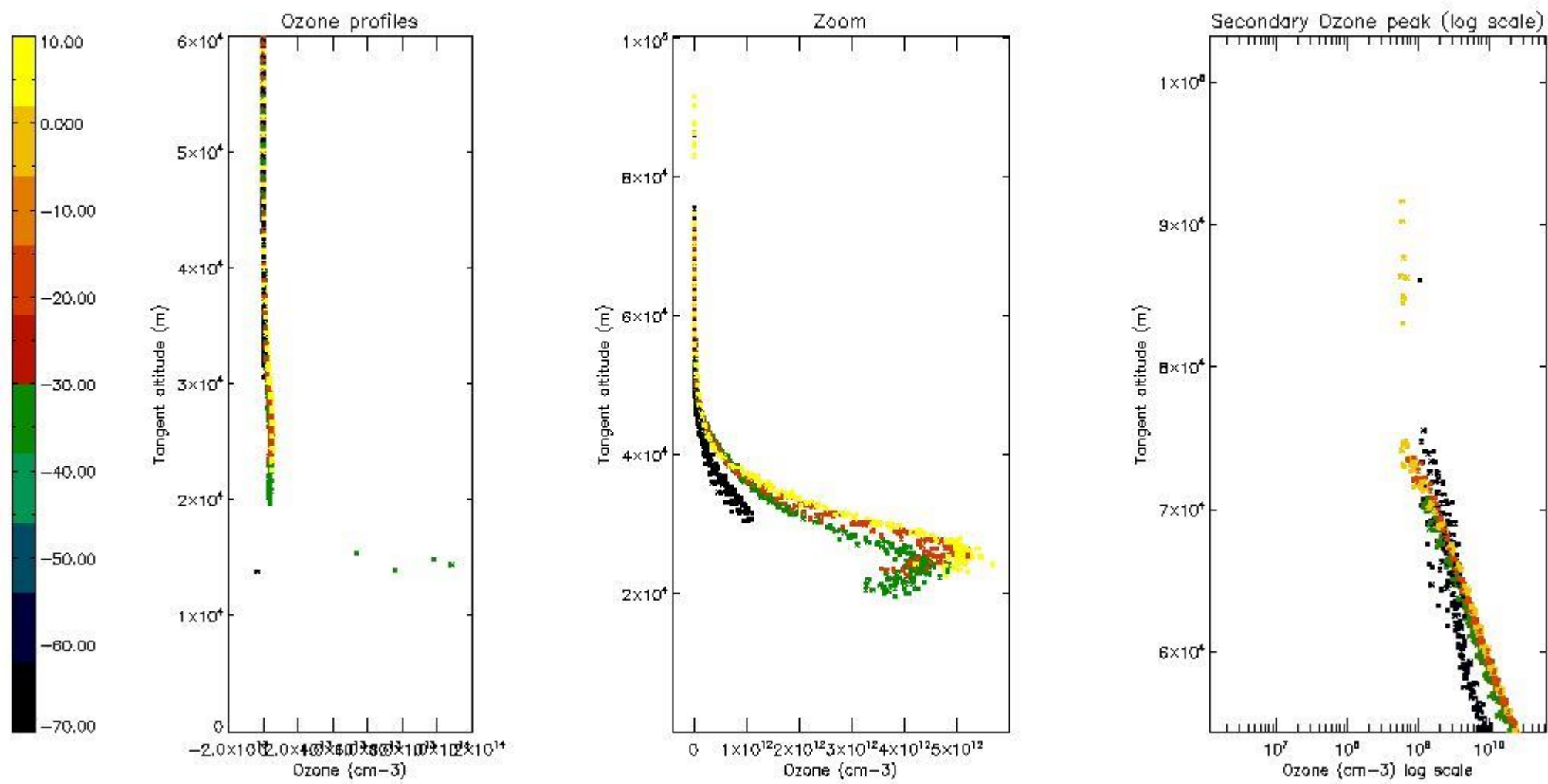
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



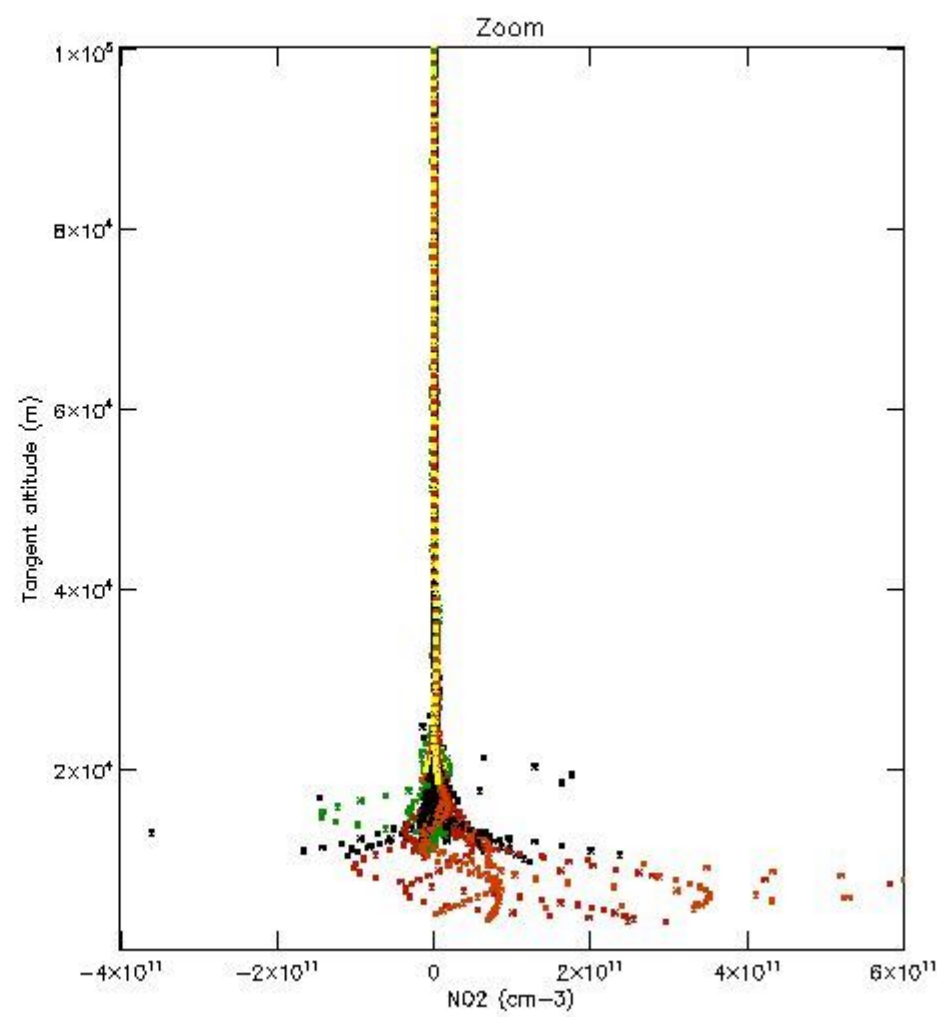
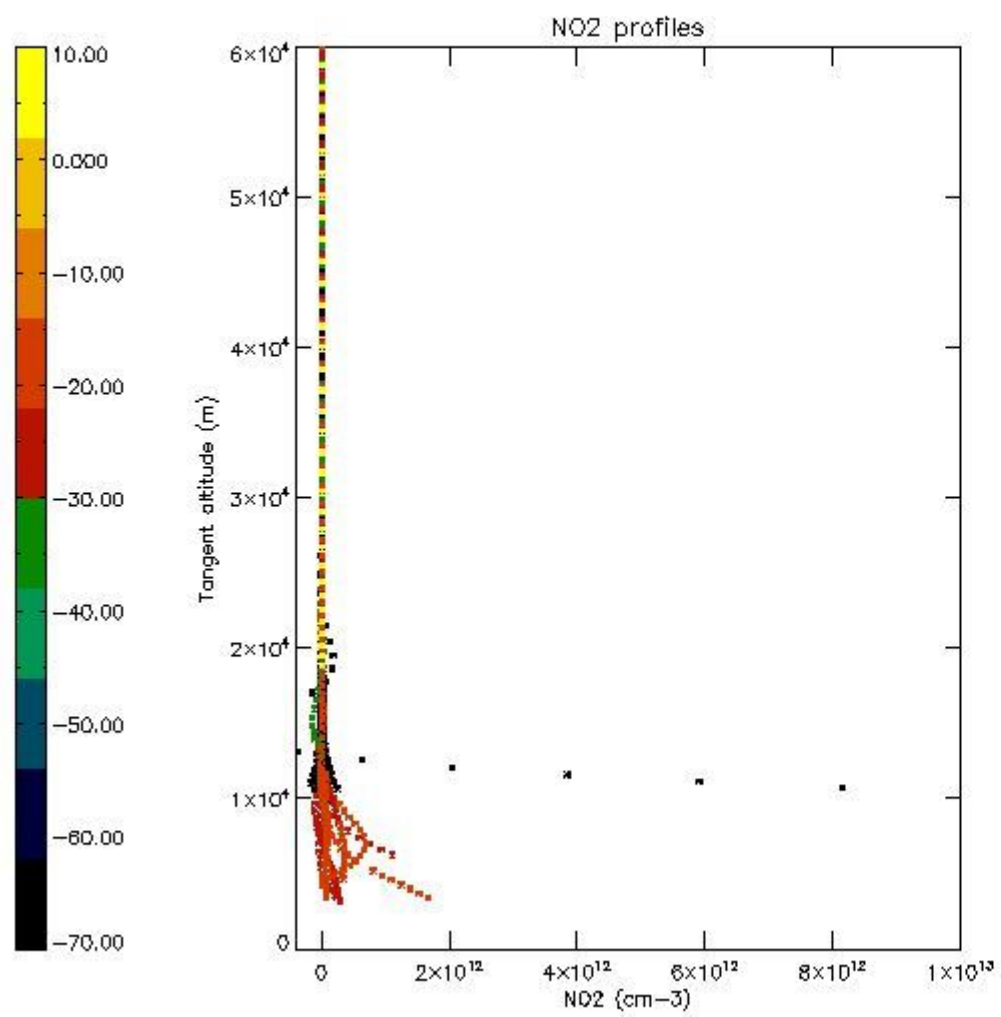
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



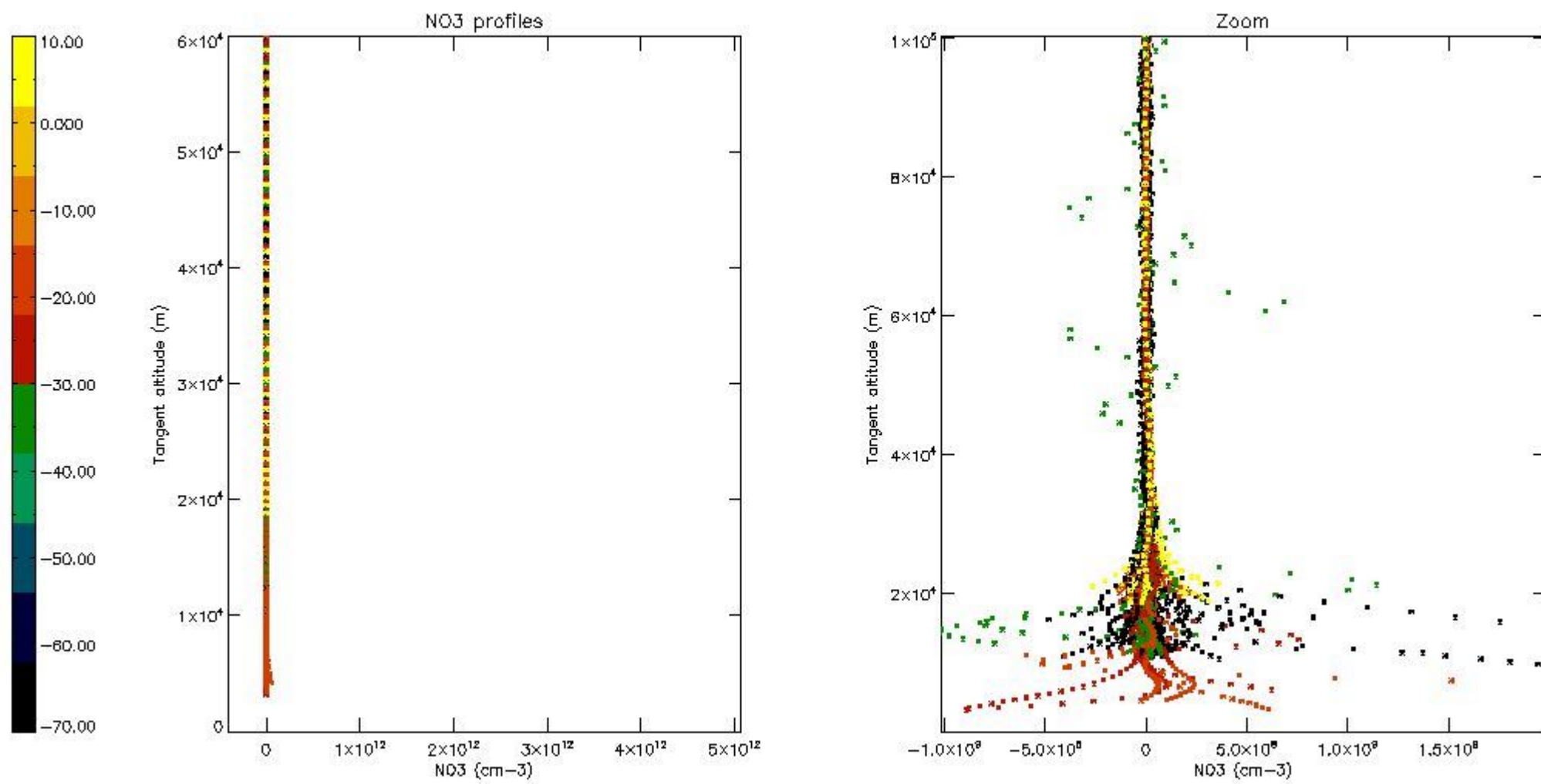
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



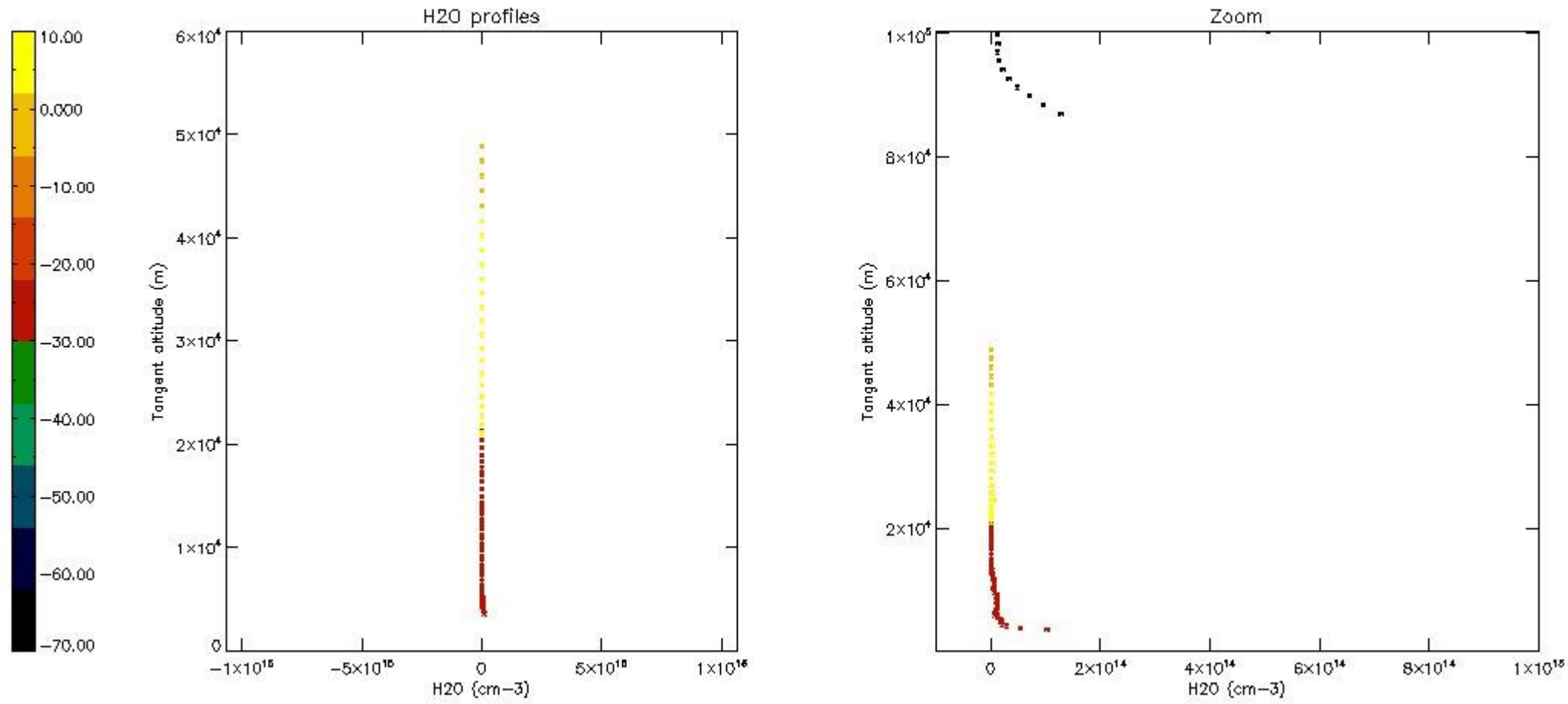
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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	20-MAY-2008 00:00:55
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	20-MAY-2008 00:00:55
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	20-MAY-2008 00:00:55

GOMOS Level 2 Daily Report

SUMMARY

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

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

[3.1 Plot of level 2 quality information per product \(time dependant\)](#)

[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](#)

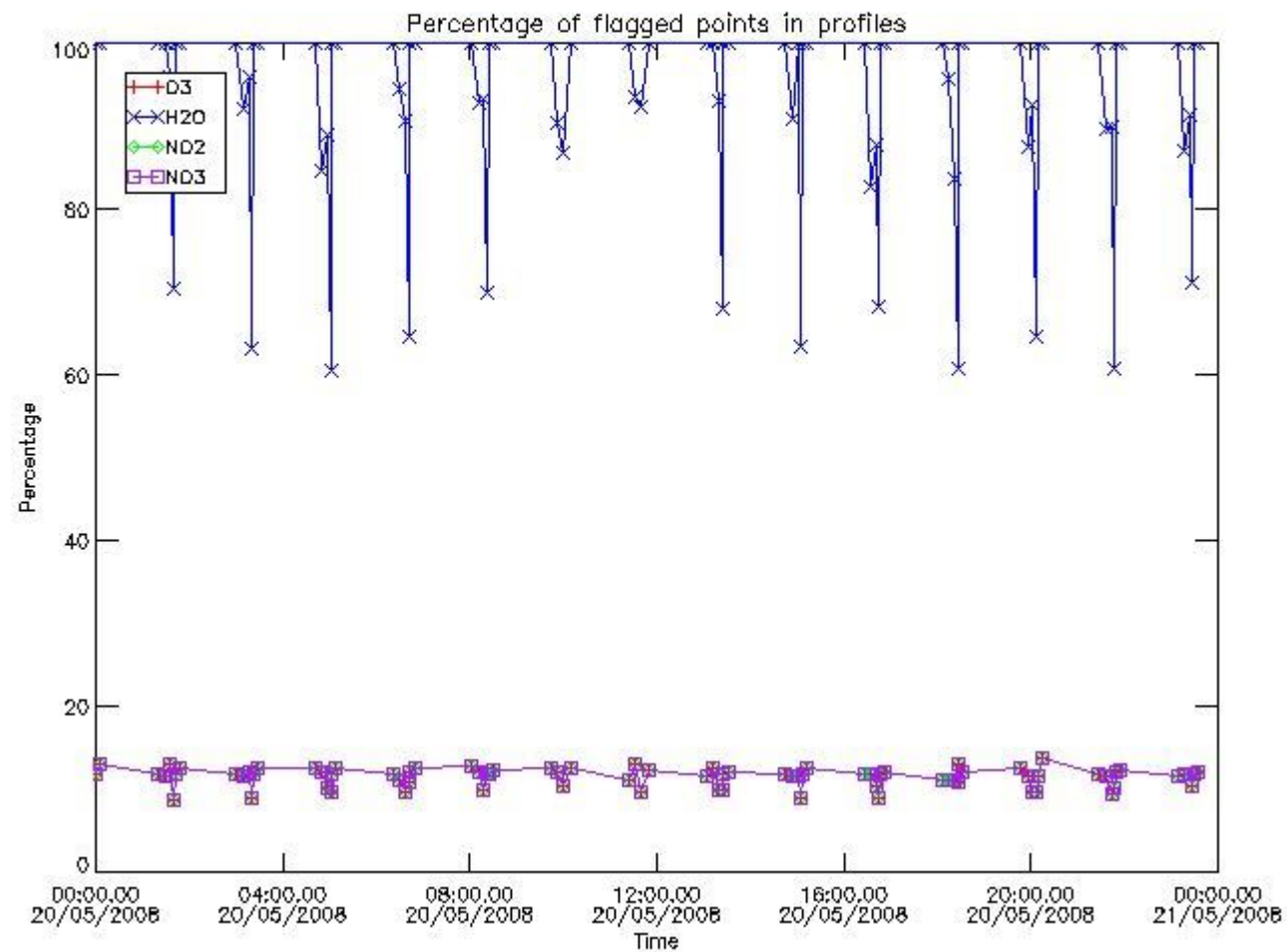
[6. Auxiliary Data Files used for the production reported in section 2](#)

338	GOM_NL__2PRFIN20080520_225338_000000532068_00416_32534_1865.N1	20-MAY-2008 22:53:38	Bright	53.000	76	27Gam Cas	2.3000	30000.	106	32534	No
339	GOM_NL__2PRFIN20080520_225451_000000542068_00416_32534_1866.N1	20-MAY-2008 22:54:51	Bright	54.000	68	18Alp Cas	2.2250	4500.0	108	32534	No
340	GOM_NL__2PRFIN20080520_230328_000000462068_00416_32534_1867.N1	20-MAY-2008 23:03:28	Twilight_stray	46.000	58	21Alp And	2.0730	11000.	92	32534	No
341	GOM_NL__2PRFIN20080520_230748_000000442068_00416_32534_1868.N1	20-MAY-2008 23:07:48	Dark	44.000	140	88Gam Peg	2.8340	26000.	88	32534	No
342	GOM_NL__2PRFIN20080520_231635_000000432068_00416_32534_1869.N1	20-MAY-2008 23:16:35	Dark	42.500	52	16Bet Cet	2.0370	4500.0	85	32534	No
343	GOM_NL__2PRFIN20080520_232346_000000522068_00416_32534_1870.N1	20-MAY-2008 23:23:46	Dark	52.000	18	24Alp PsA	1.1660	9700.0	104	32534	No
344	GOM_NL__2PRFIN20080520_232752_000000592068_00416_32534_1871.N1	20-MAY-2008 23:27:52	Dark	59.000	63	Bet Gru	2.1500	2800.0	118	32534	No
345	GOM_NL__2PRFIN20080520_232930_000000432068_00417_32535_1854.N1	20-MAY-2008 23:29:30	Dark	43.000	31	Alp Gru	1.7340	15200.	86	32535	No
346	GOM_NL__2PRFIN20080520_233457_000000432068_00417_32535_1855.N1	20-MAY-2008 23:34:57	Dark	42.500	45	Alp Pav	1.9400	26000.	85	32535	No
347	GOM_NL__2PRFIN20080520_234152_000000422068_00417_32535_1856.N1	20-MAY-2008 23:41:52	Straylight	41.500	141	Bet Ara	2.8400	4600.0	83	32535	No
348	GOM_NL__2PRFIN20080520_234435_000000492068_00417_32535_1857.N1	20-MAY-2008 23:44:35	Straylight	49.000	40	The Sco	1.8590	7100.0	98	32535	No
349	GOM_NL__2PRFIN20080520_234626_000000542068_00417_32535_1858.N1	20-MAY-2008 23:46:26	Straylight	53.500	25	35Lam Sco	1.6200	28000.	107	32535	No
350	GOM_NL__2PRFIN20080520_234833_000000492068_00417_32535_1859.N1	20-MAY-2008 23:48:33	Twilight_stray	49.000	75	26Eps Sco	2.2910	4250.0	98	32535	No
351	GOM_NL__2PRFIN20080520_235153_000000452068_00417_32535_1860.N1	20-MAY-2008 23:51:53	Bright	45.000	156	20Sig Sco	2.9030	28000.	90	32535	No
352	GOM_NL__2PRFIN20080520_235356_000000412068_00417_32535_1861.N1	20-MAY-2008 23:53:56	Bright	41.000	97	8Bet1Sco	2.5610	30000.	82	32535	No
353	GOM_NL__2PRFIN20080520_235542_000000372068_00417_32535_1862.N1	20-MAY-2008 23:55:42	Bright	36.500	122	9Alp2Lib	2.7470	9700.0	73	32535	No
354	GOM_NL__2PRFIN20080520_235728_000000382068_00417_32535_1863.N1	20-MAY-2008 23:57:28	Bright	38.000	104	27Bet Lib	2.6140	13100.	76	32535	No

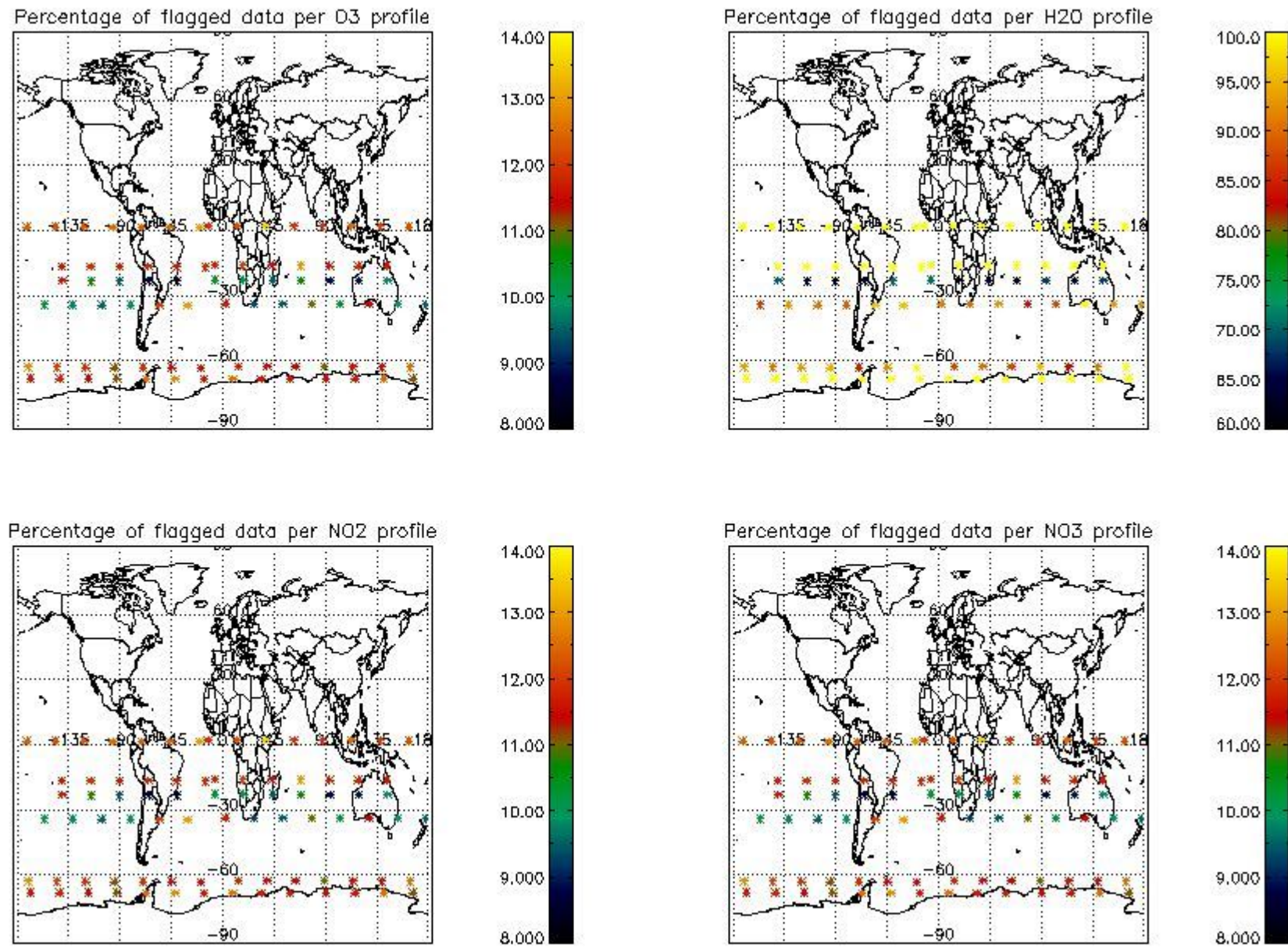
3. Quality information per product

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)

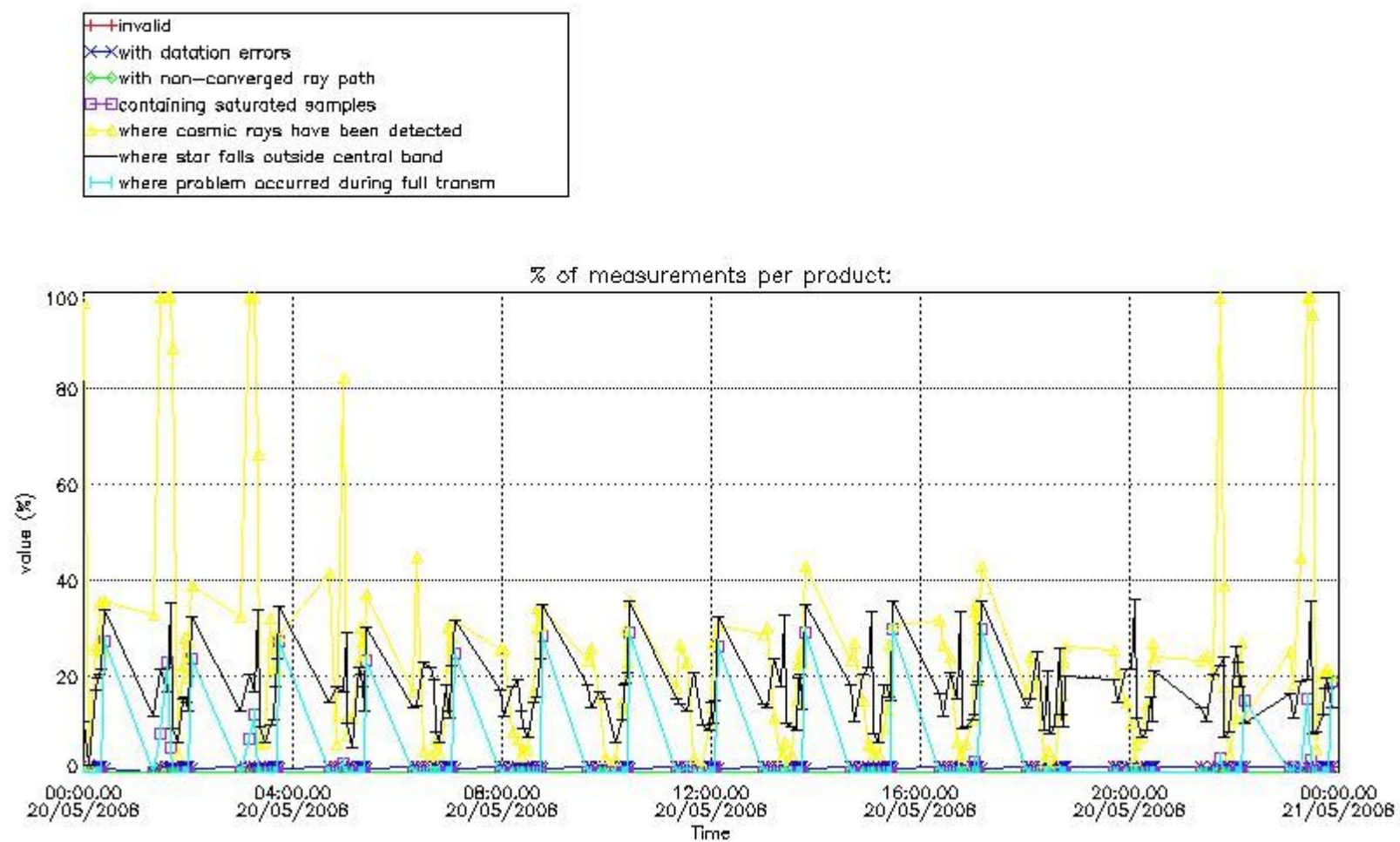


4. Level 1 quality information per product

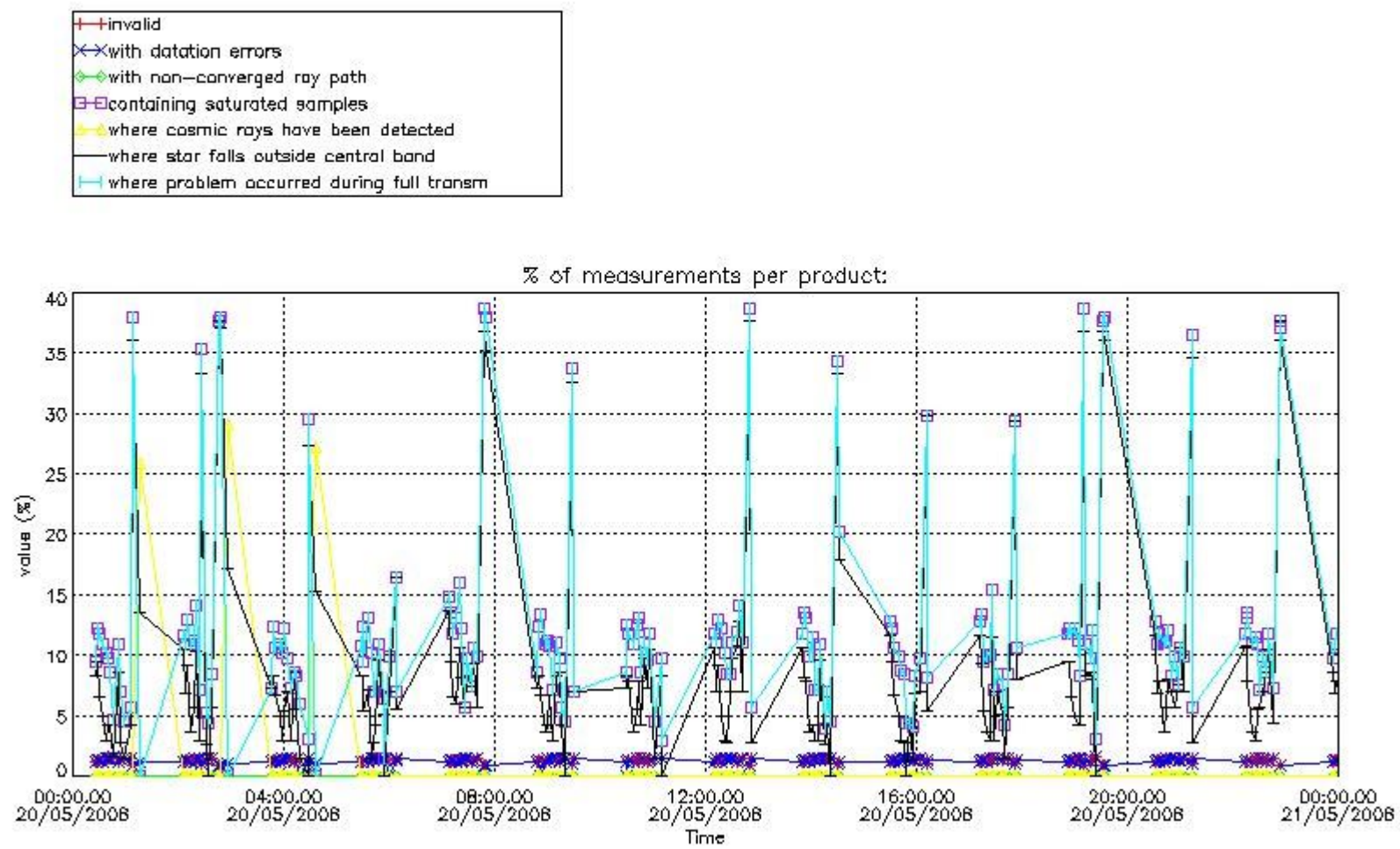
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

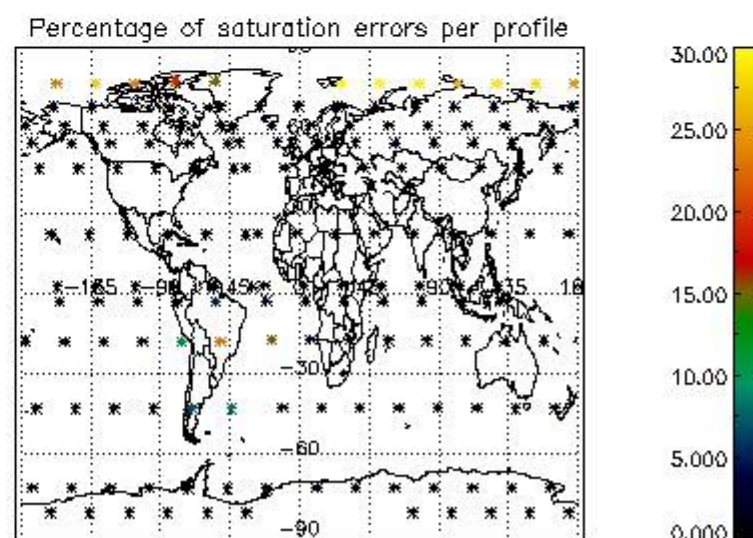
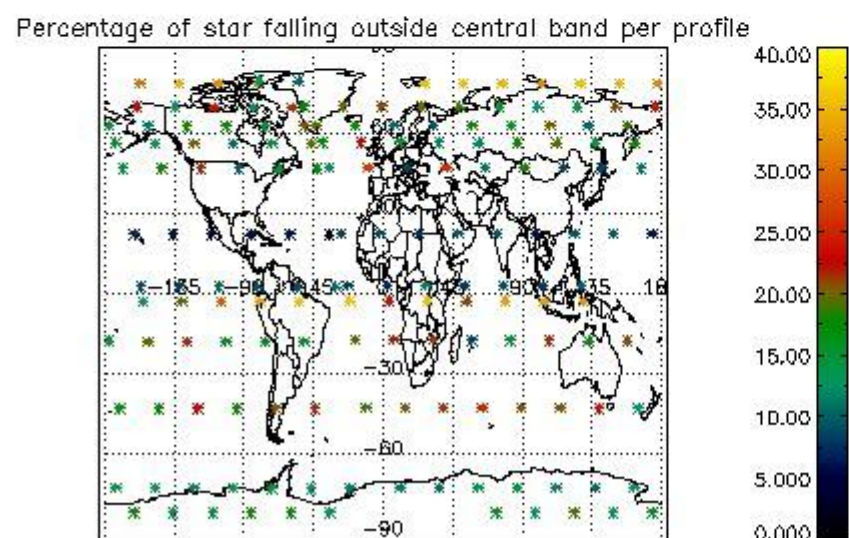
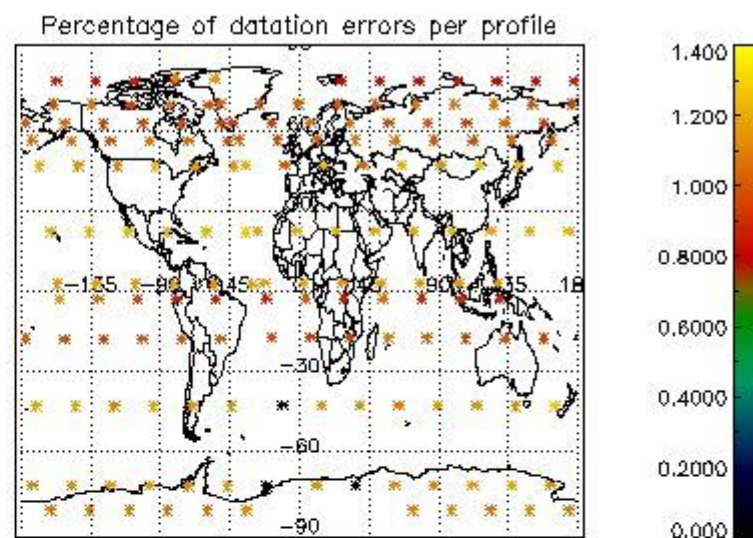
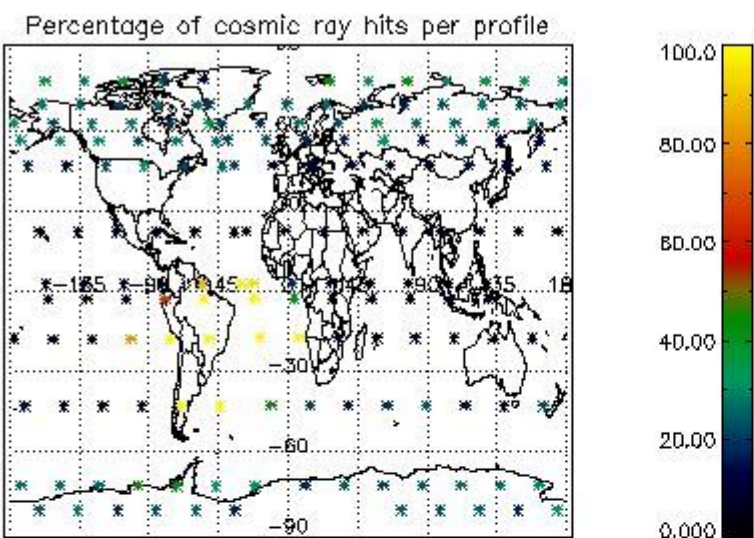


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

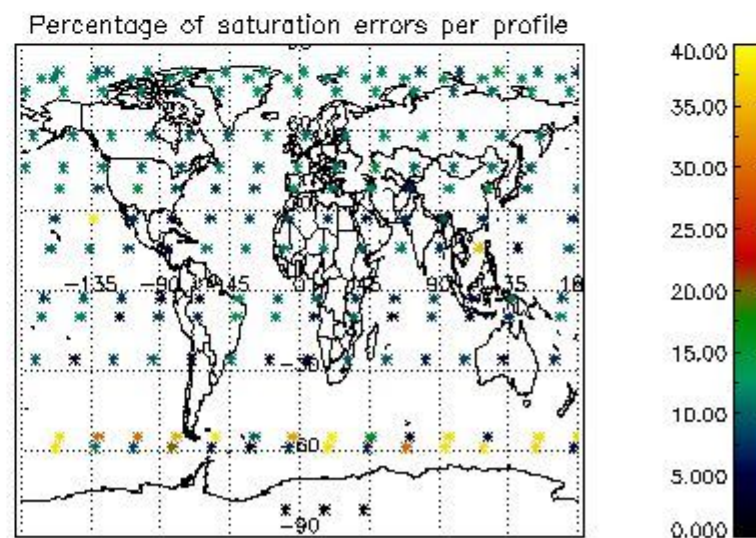
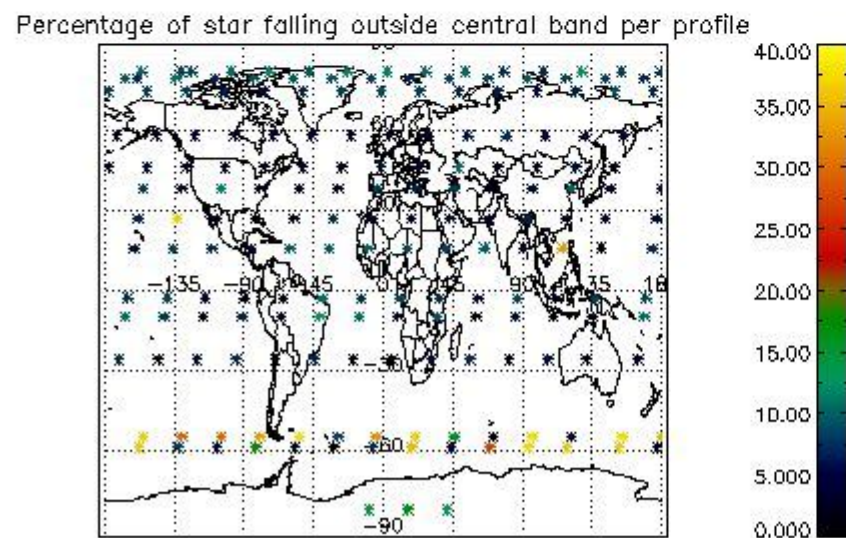
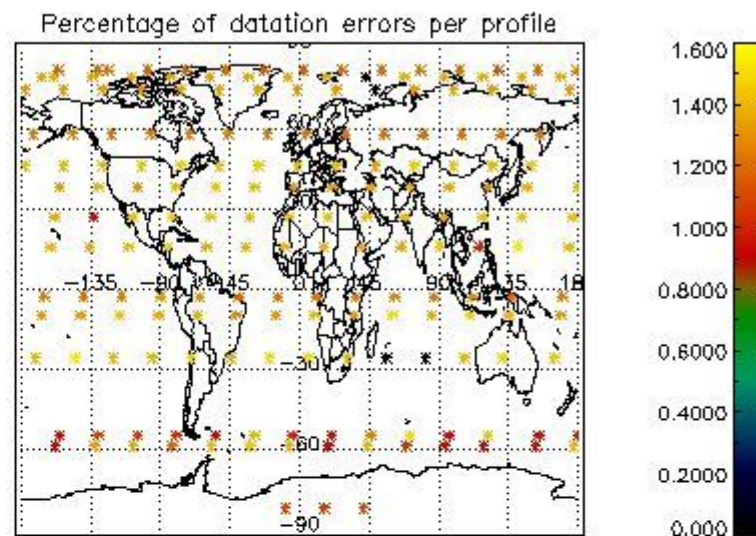
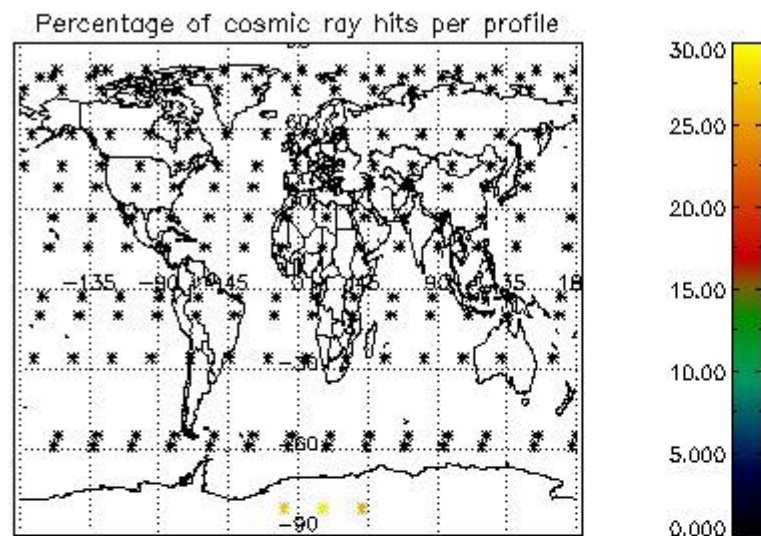


4.2 Plot quality information per product coming from level 1b processing (world map)

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

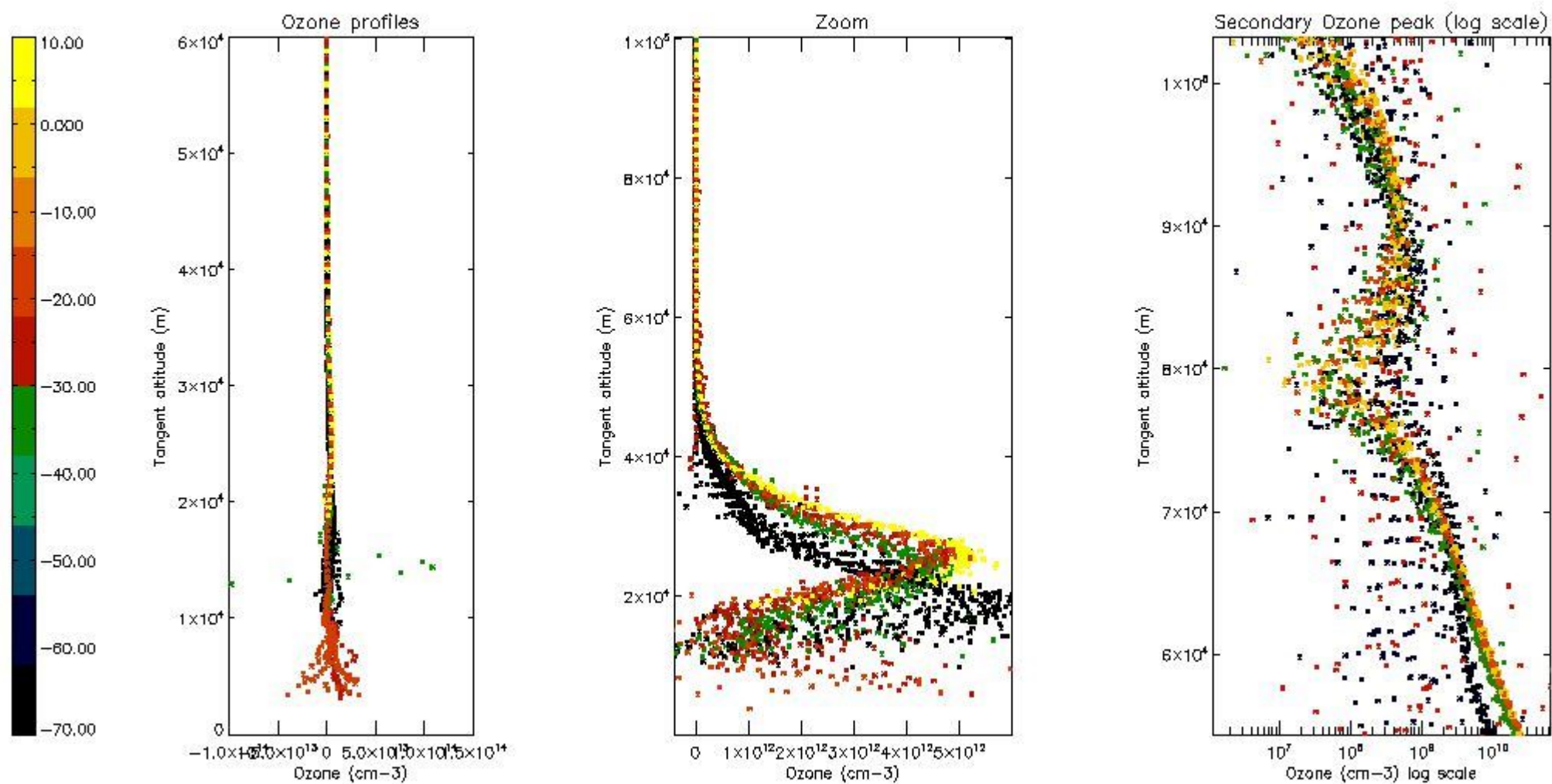
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	26
STD < 20	14

STD < 10	11
STD < 5	7

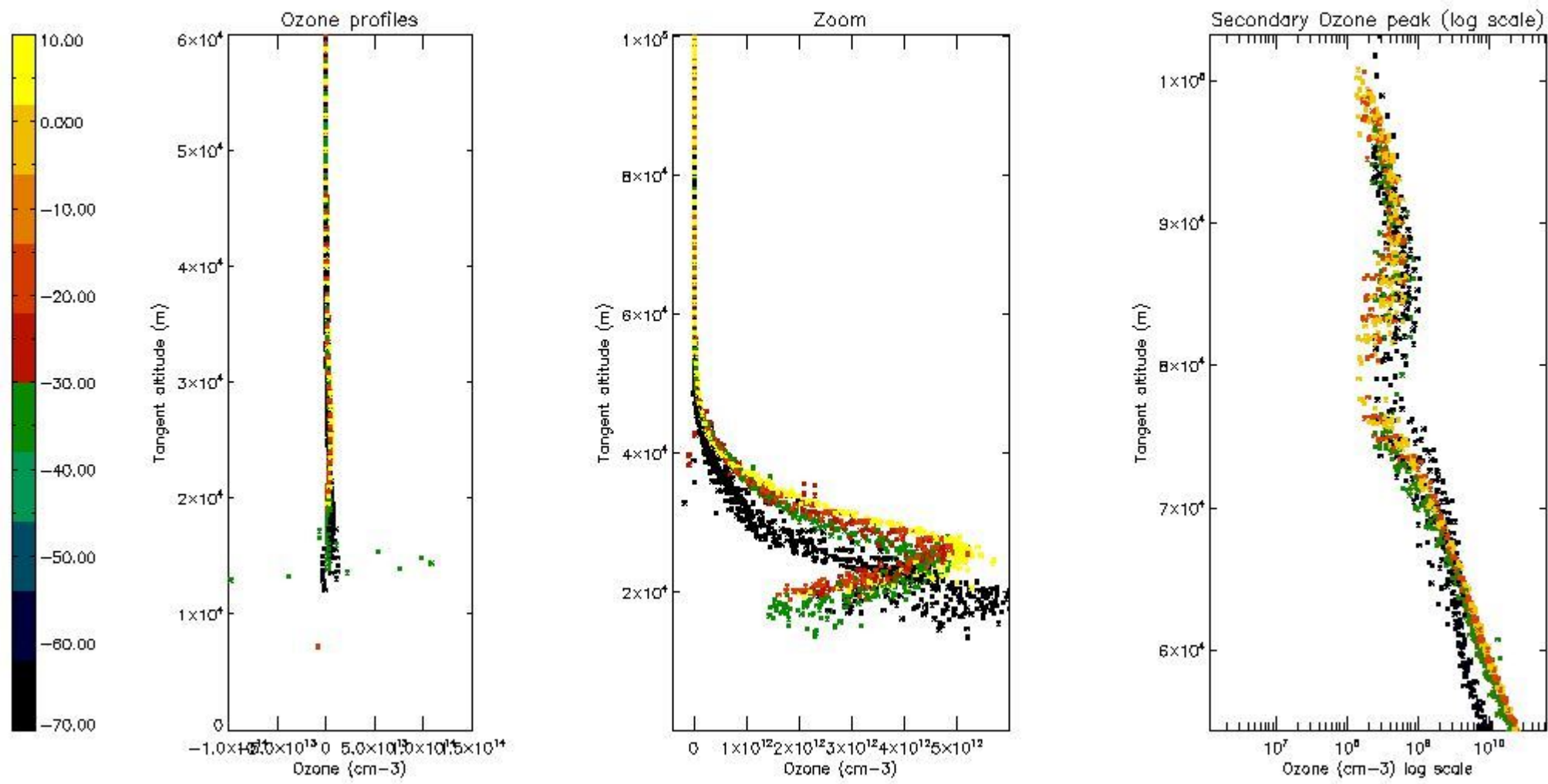
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



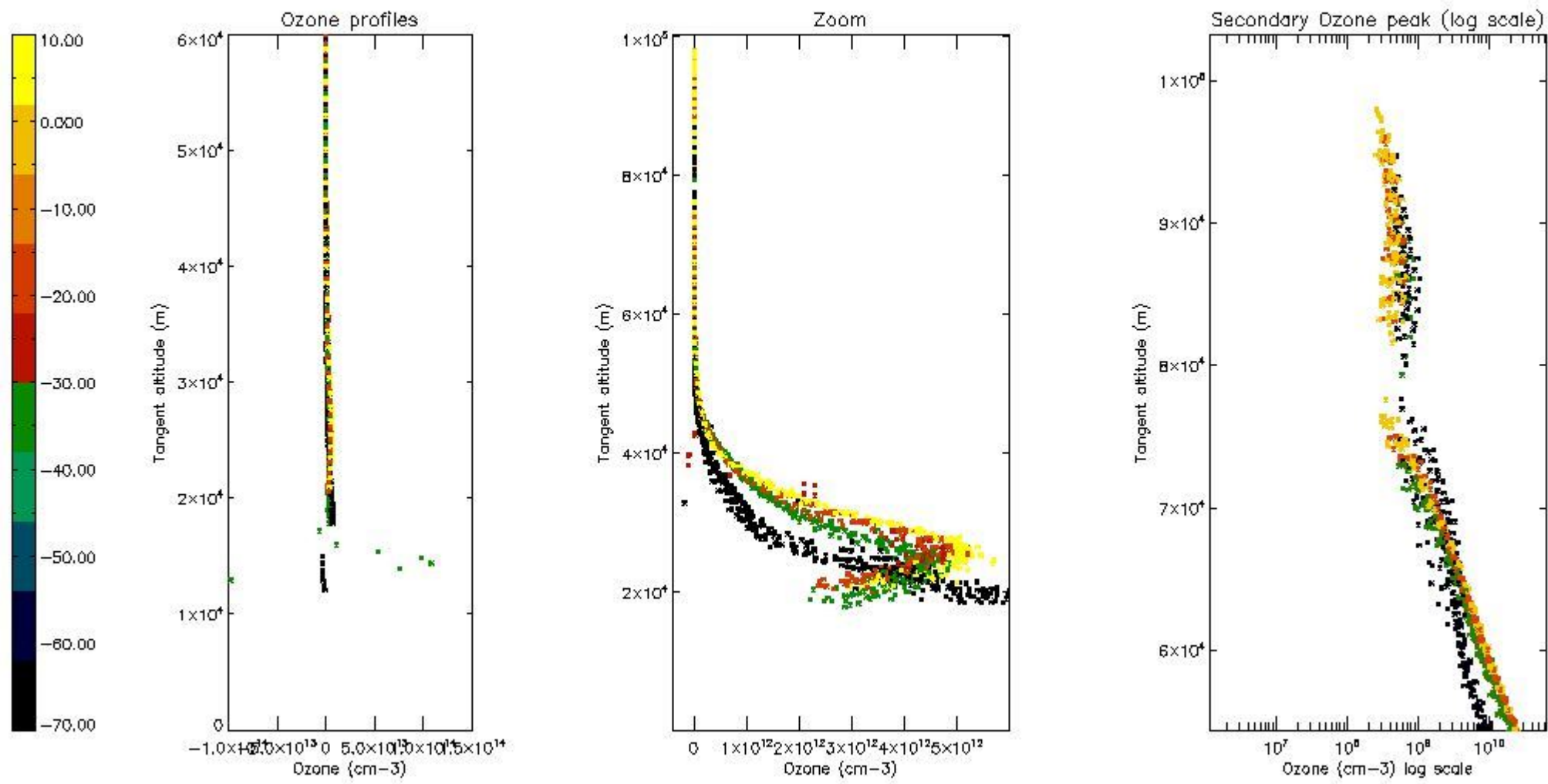
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



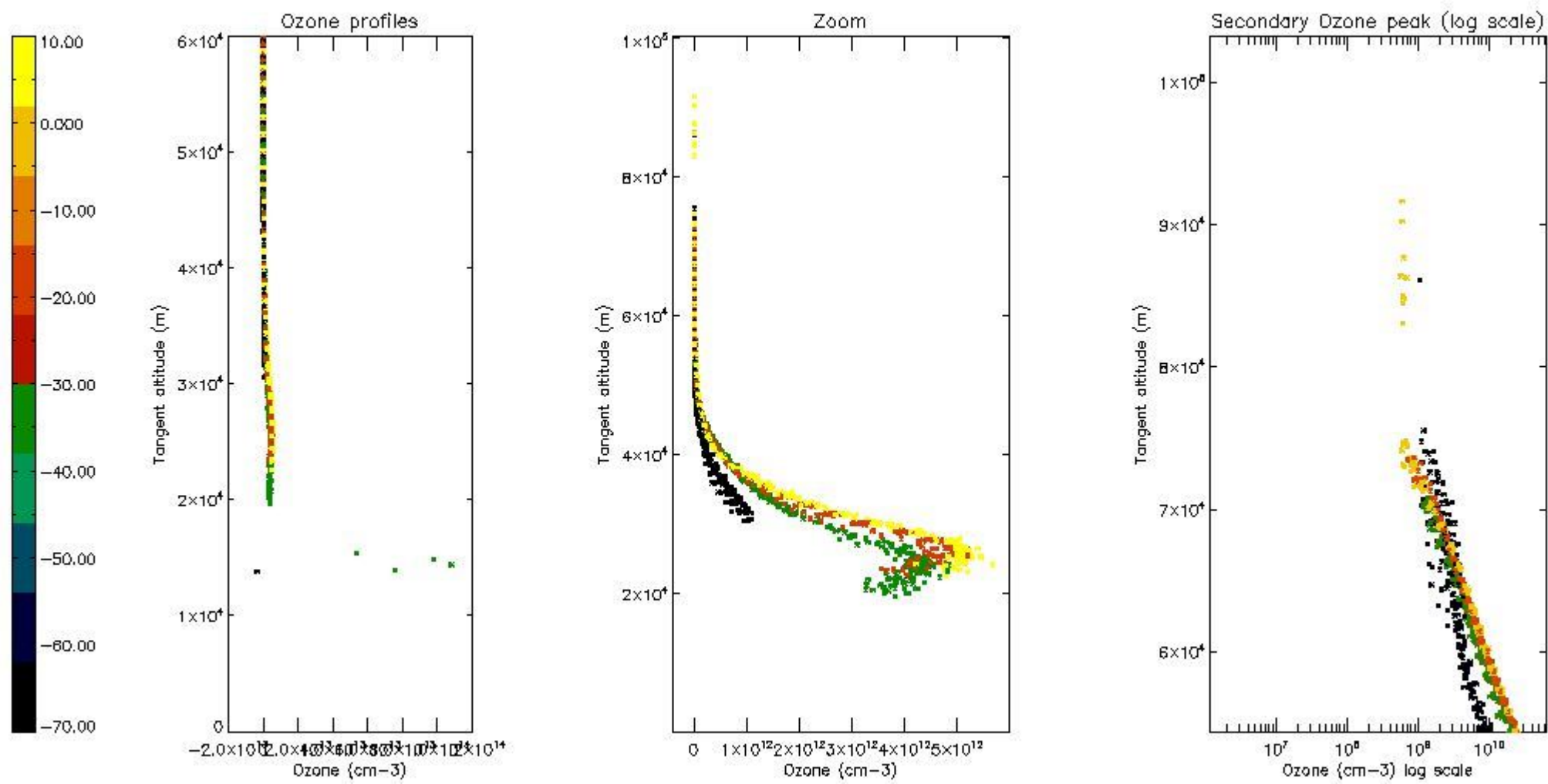
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



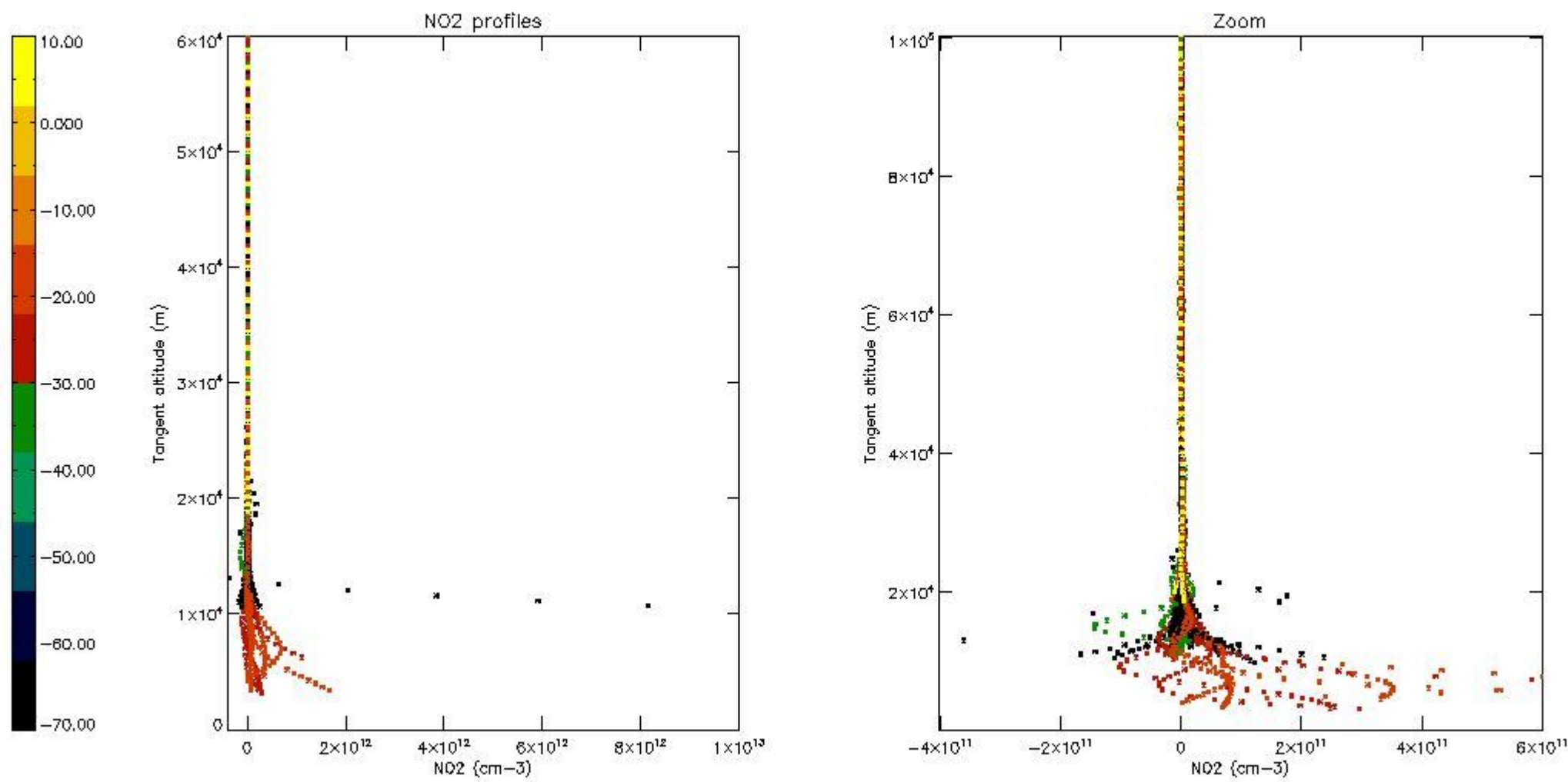
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



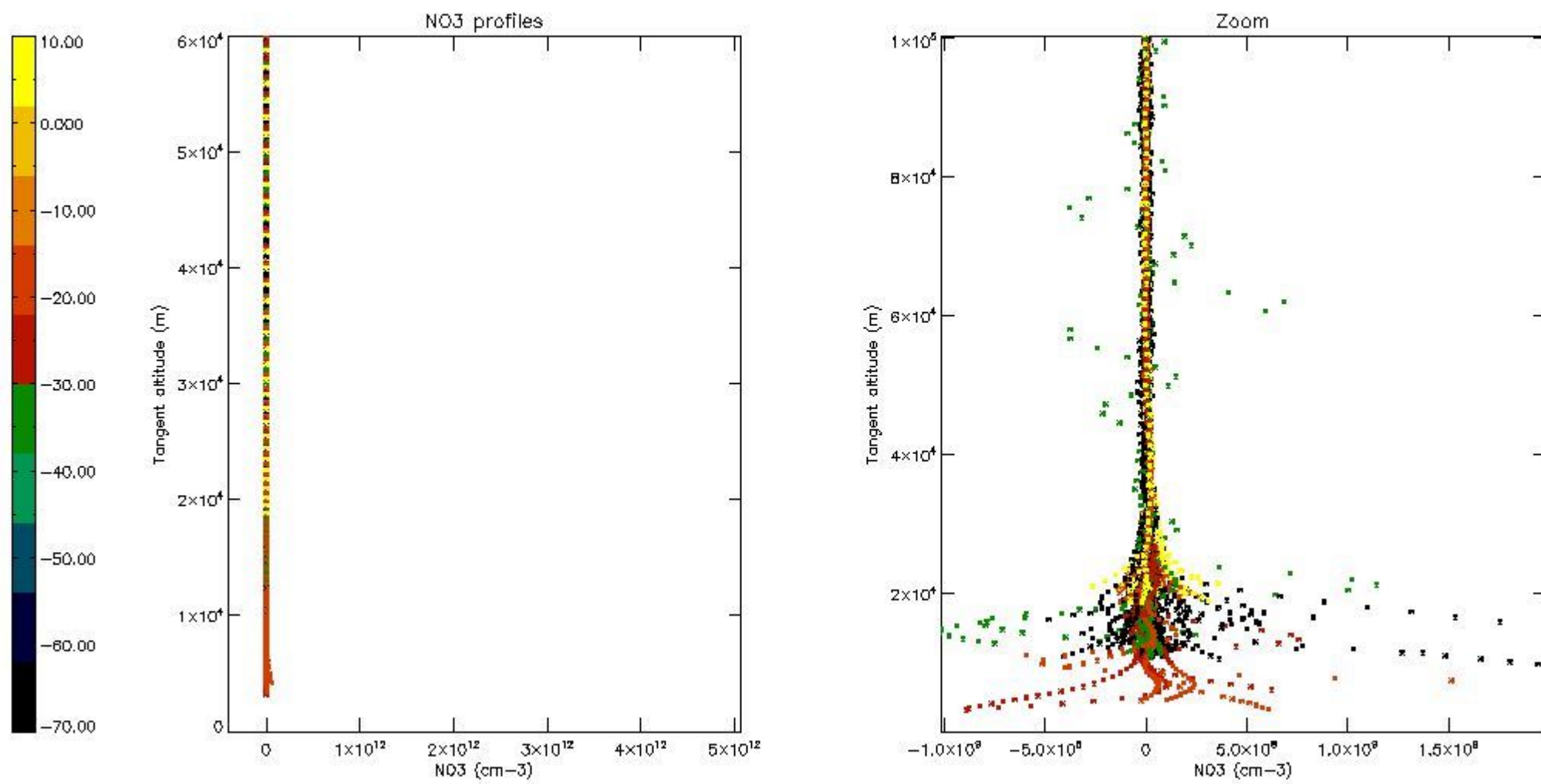
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



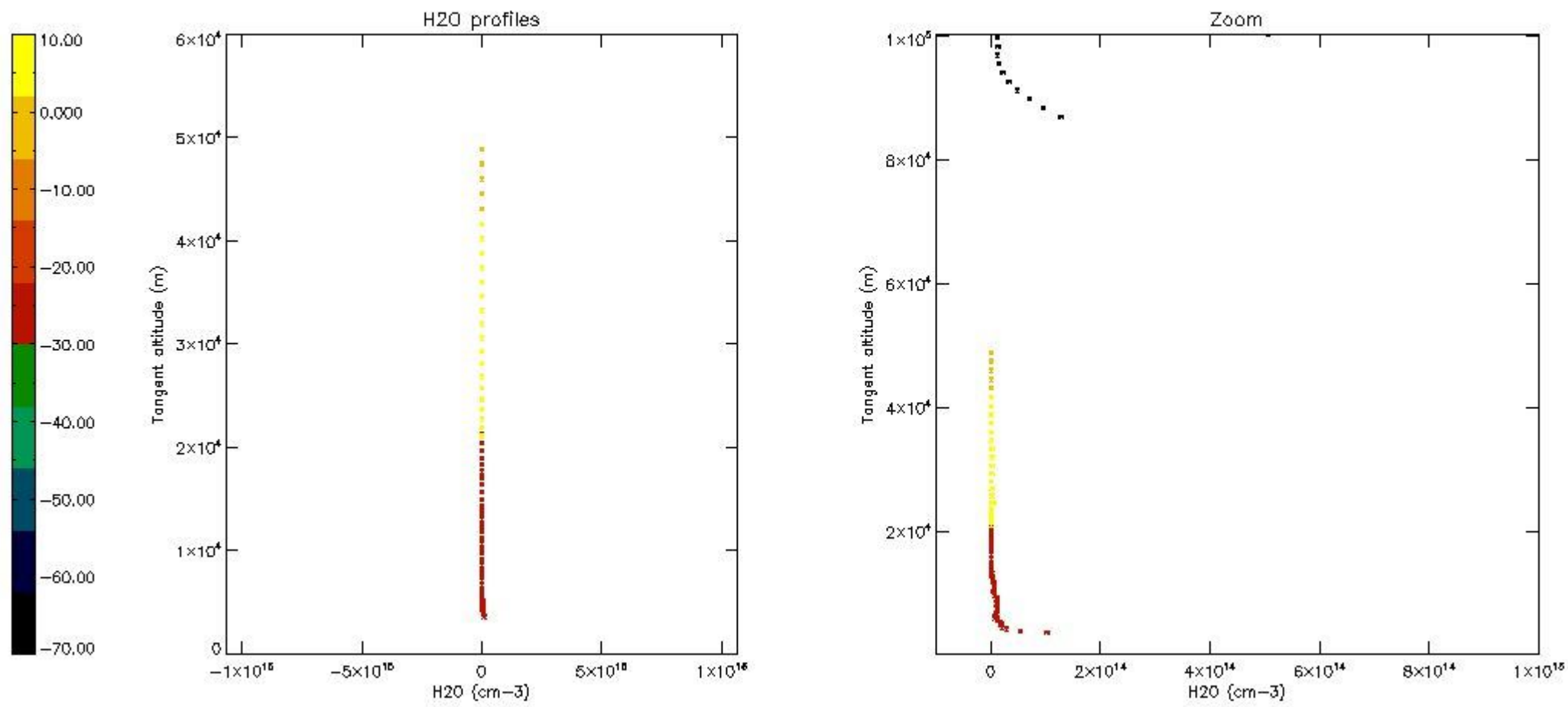
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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)

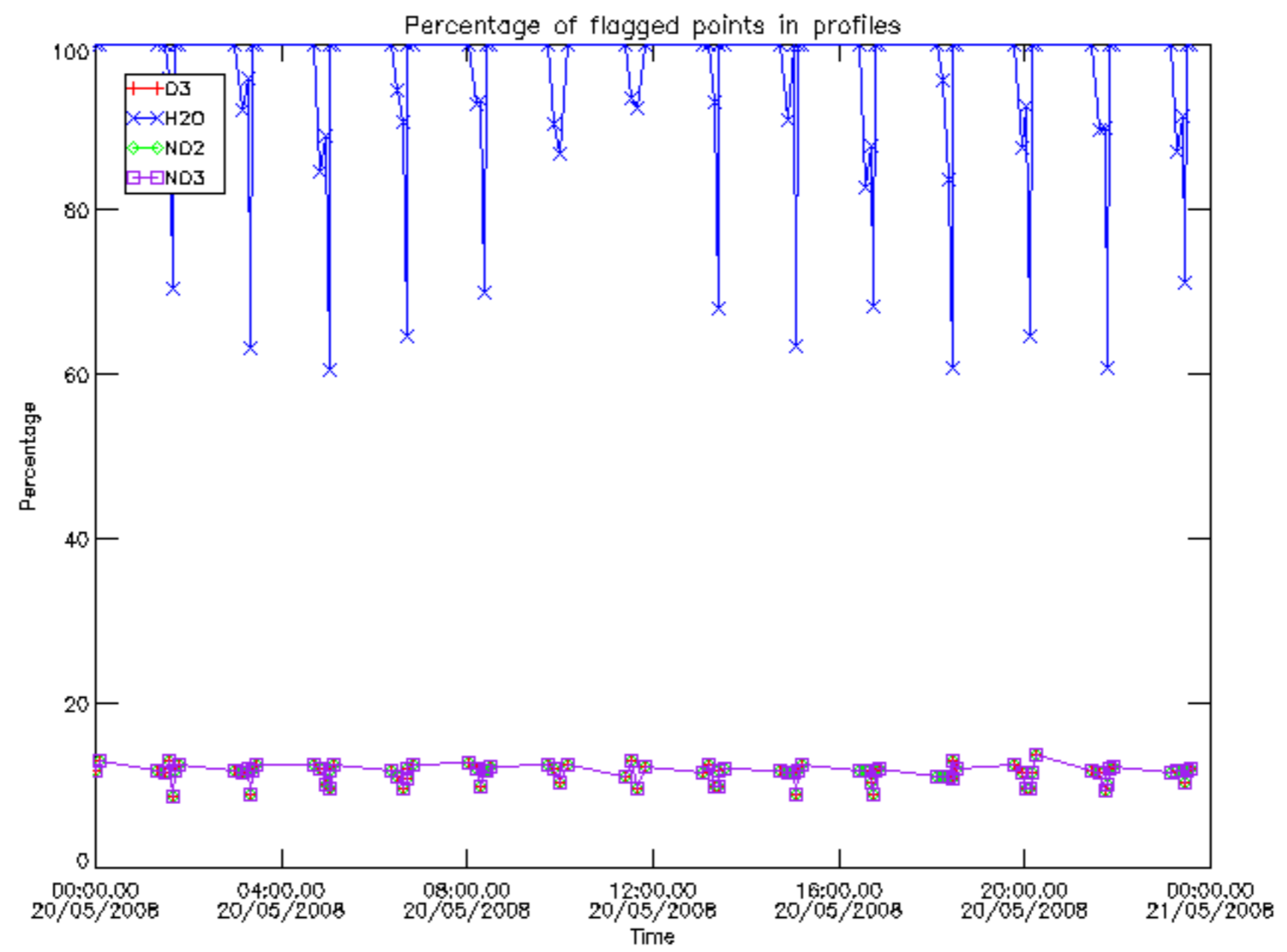
The colorbar represents the latitude.



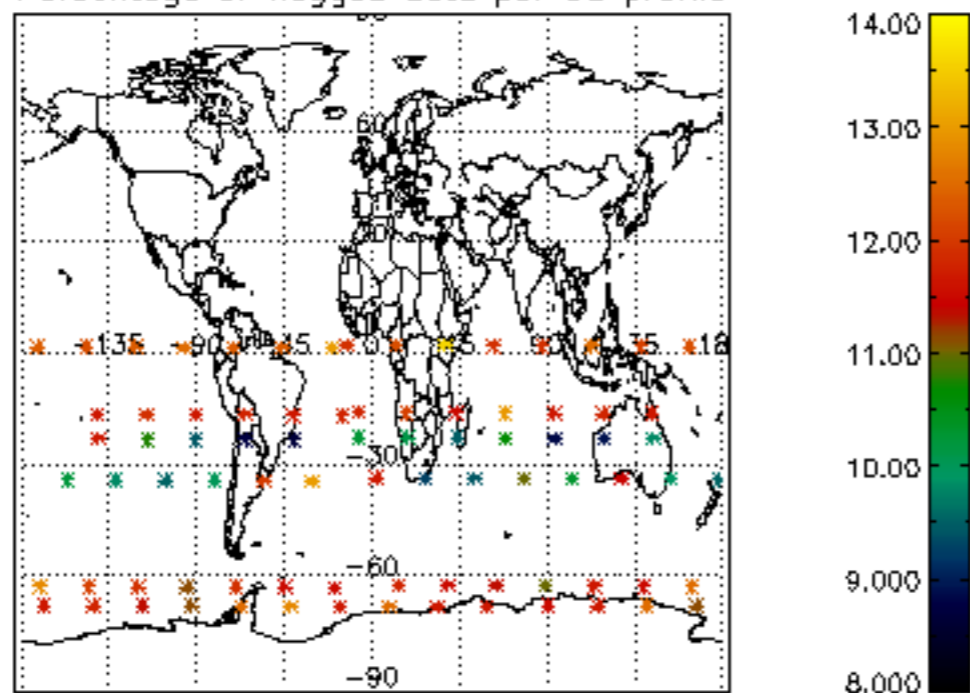
6. Auxiliary Data Files used for the production reported in section 2

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.

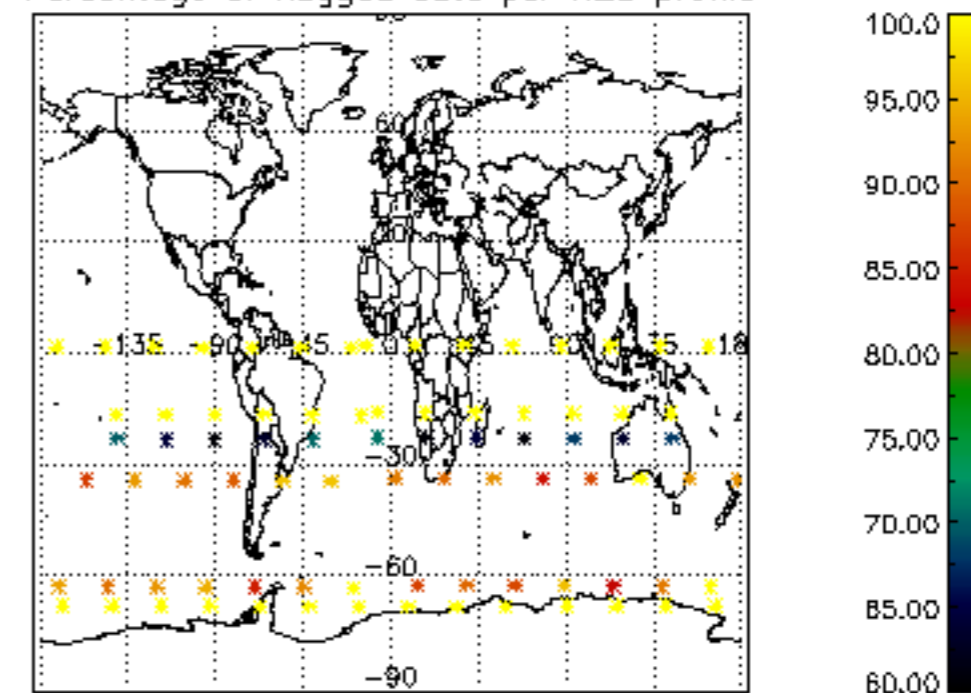
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	20-MAY-2008 00:00:55
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	20-MAY-2008 00:00:55
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	20-MAY-2008 00:00:55



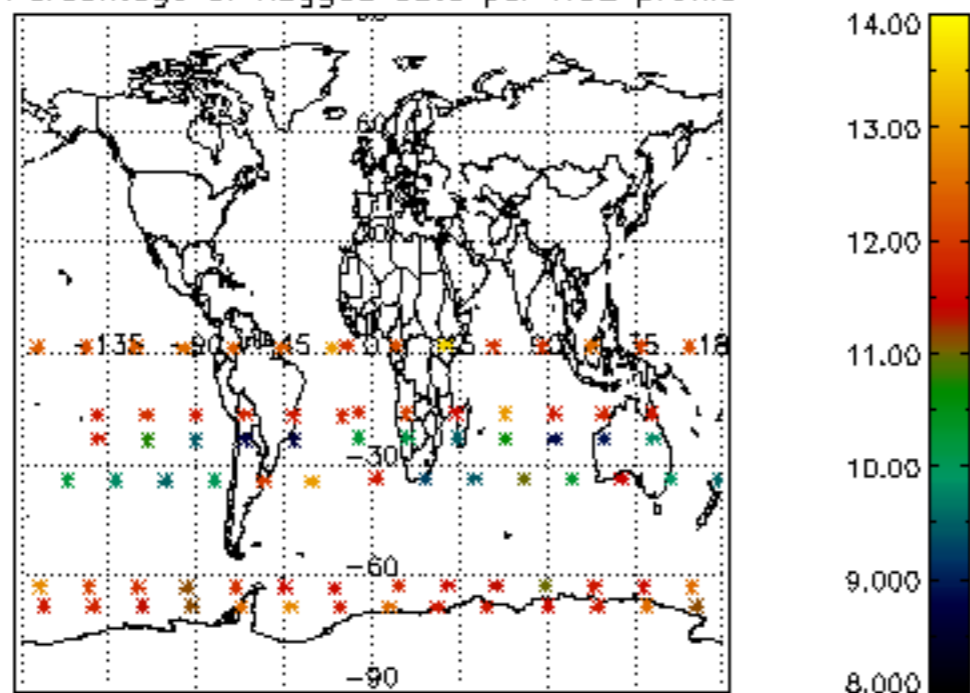
Percentage of flagged data per D3 profile



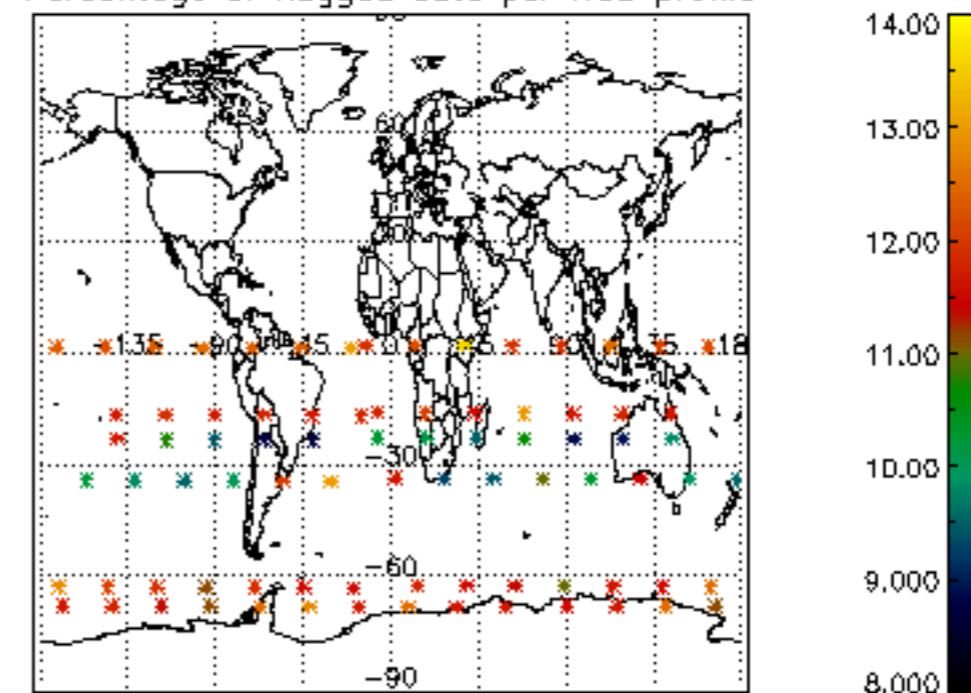
Percentage of flagged data per H2O profile

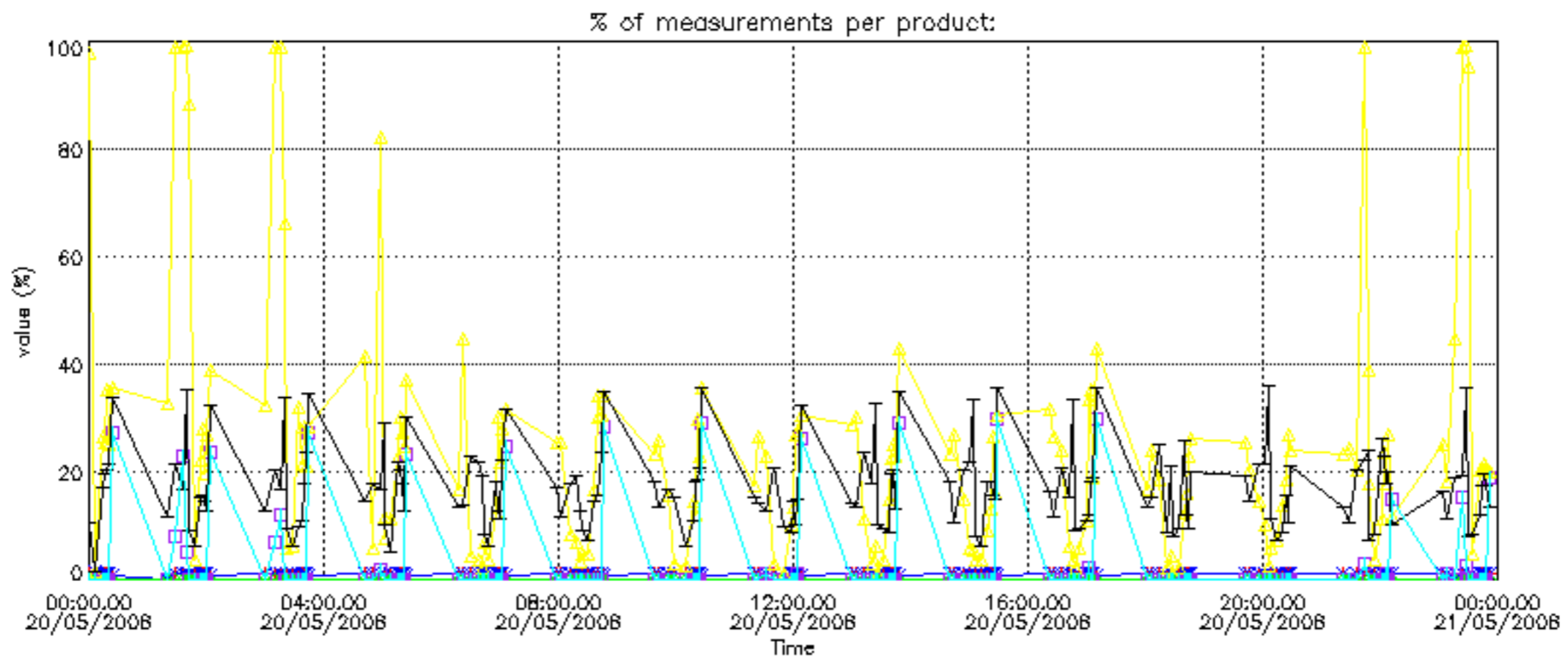
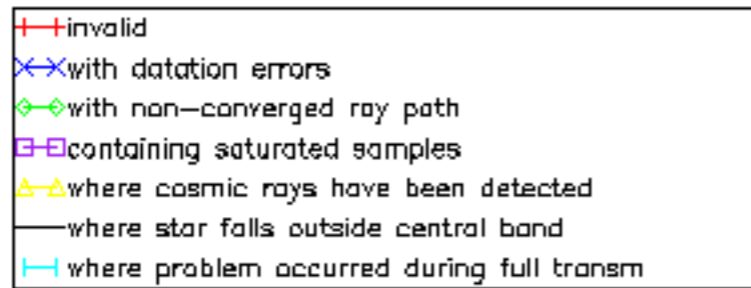


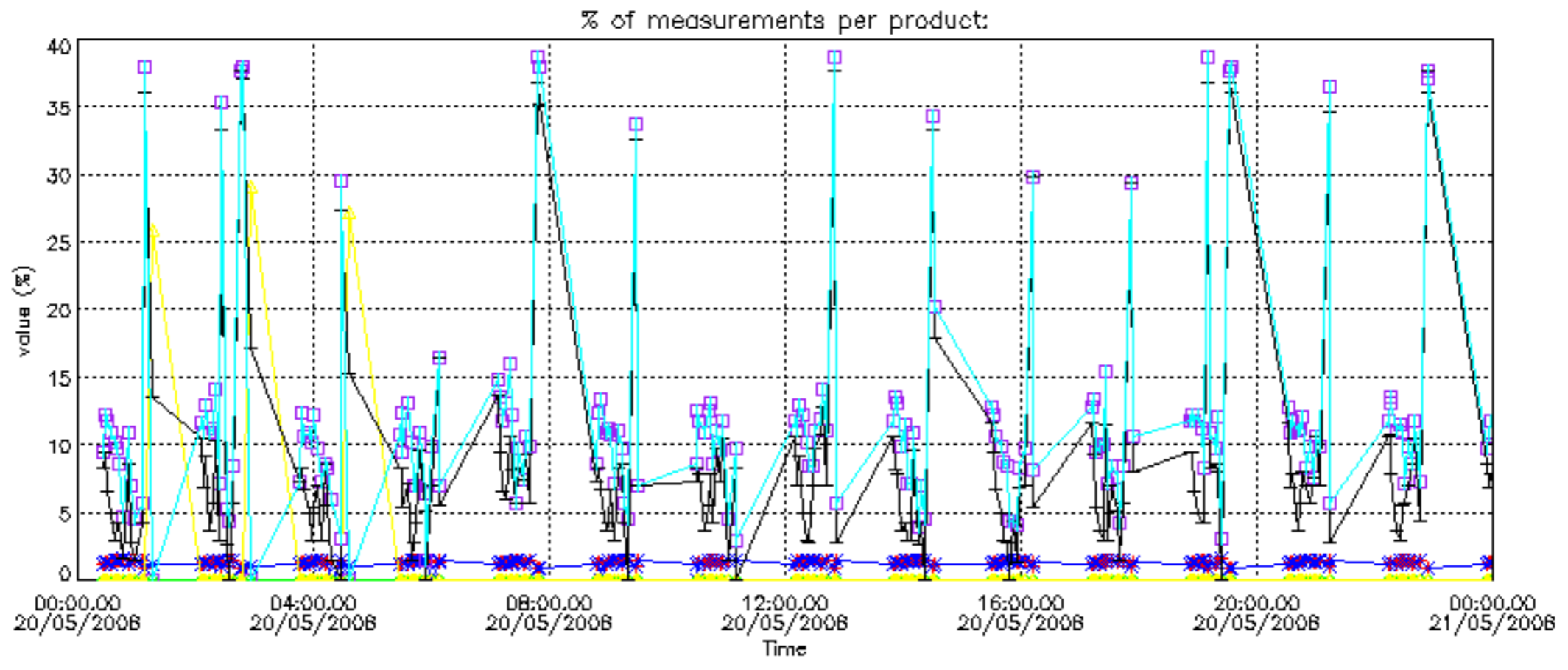
Percentage of flagged data per NO2 profile



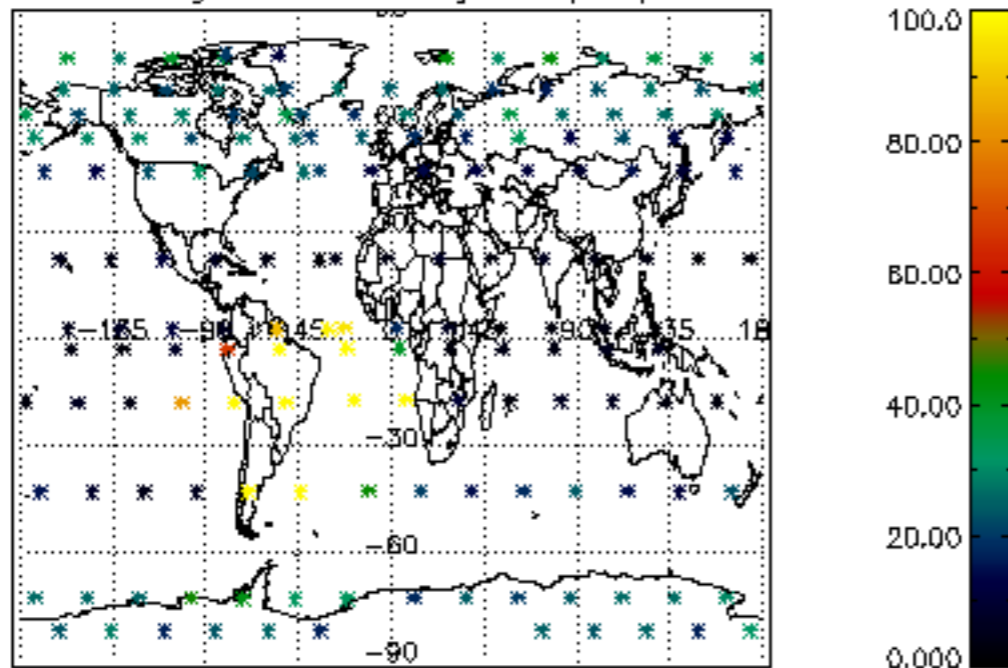
Percentage of flagged data per NO3 profile



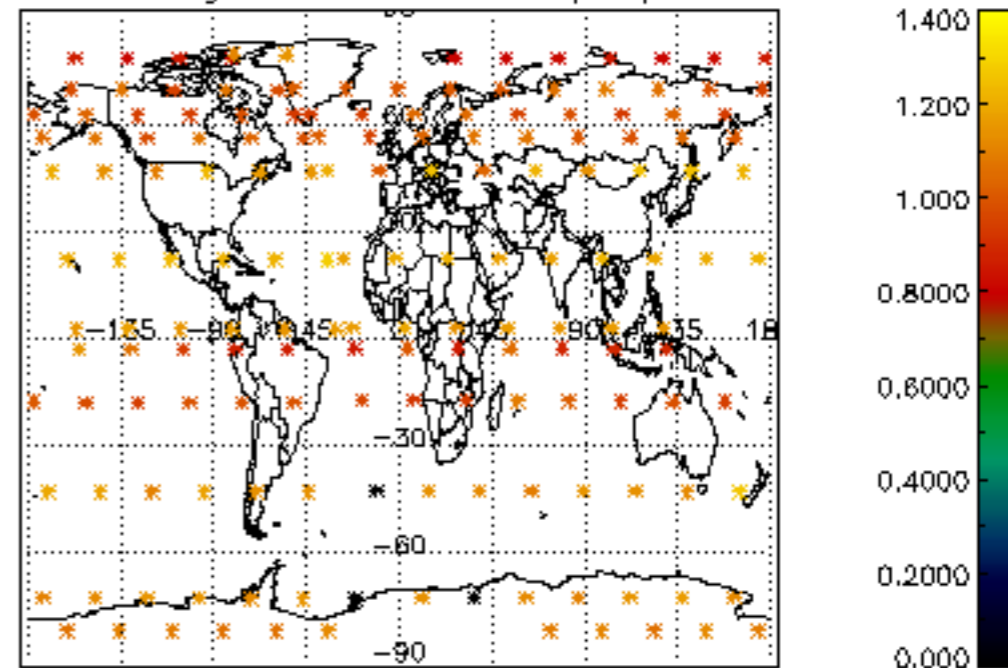




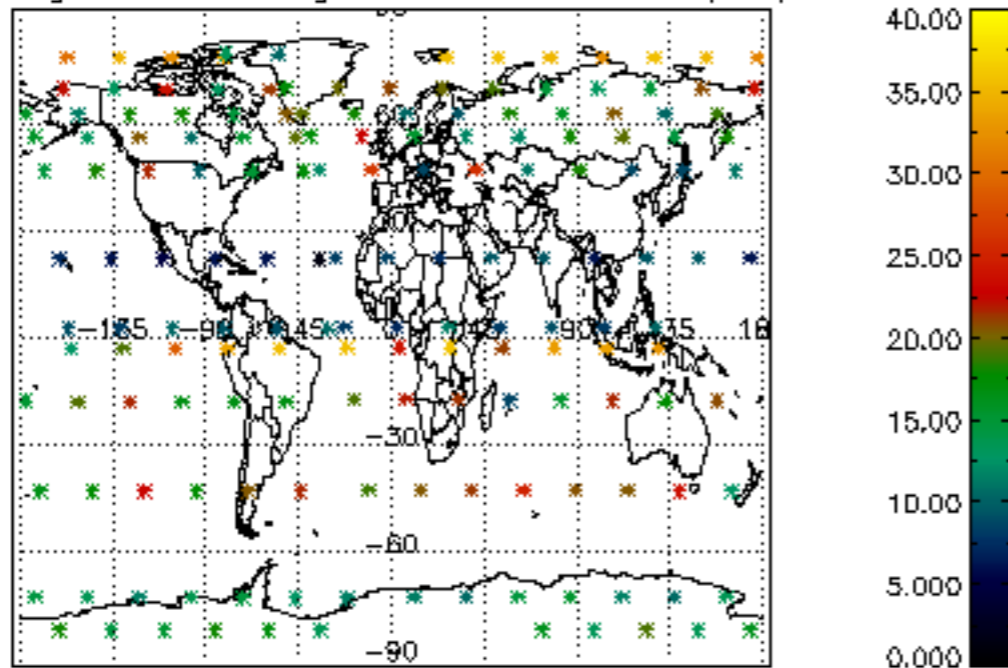
Percentage of cosmic ray hits per profile



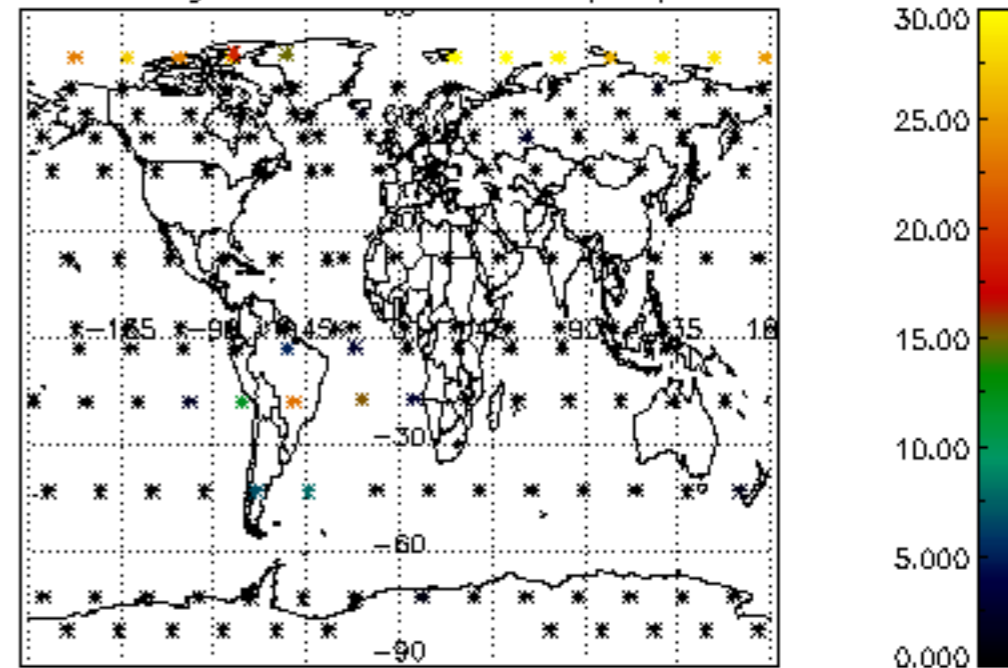
Percentage of datation errors per profile



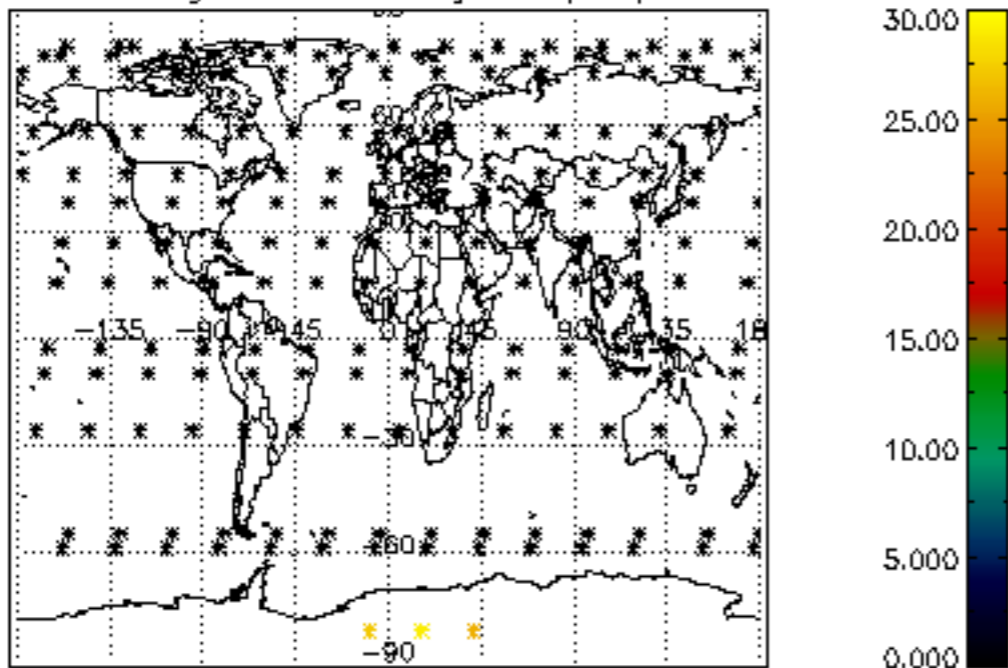
Percentage of star falling outside central band per profile



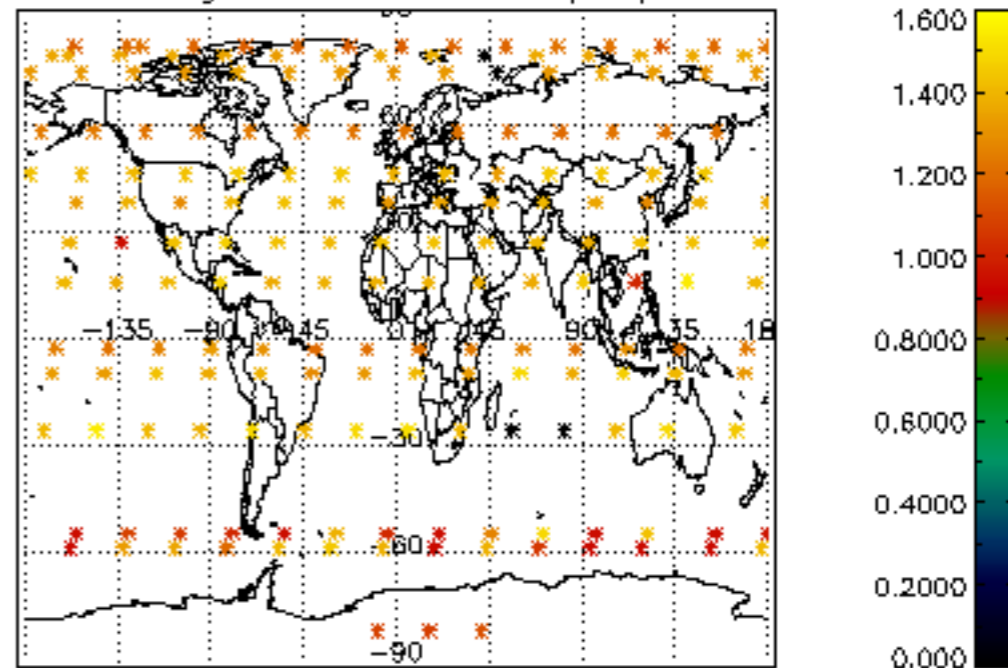
Percentage of saturation errors per profile



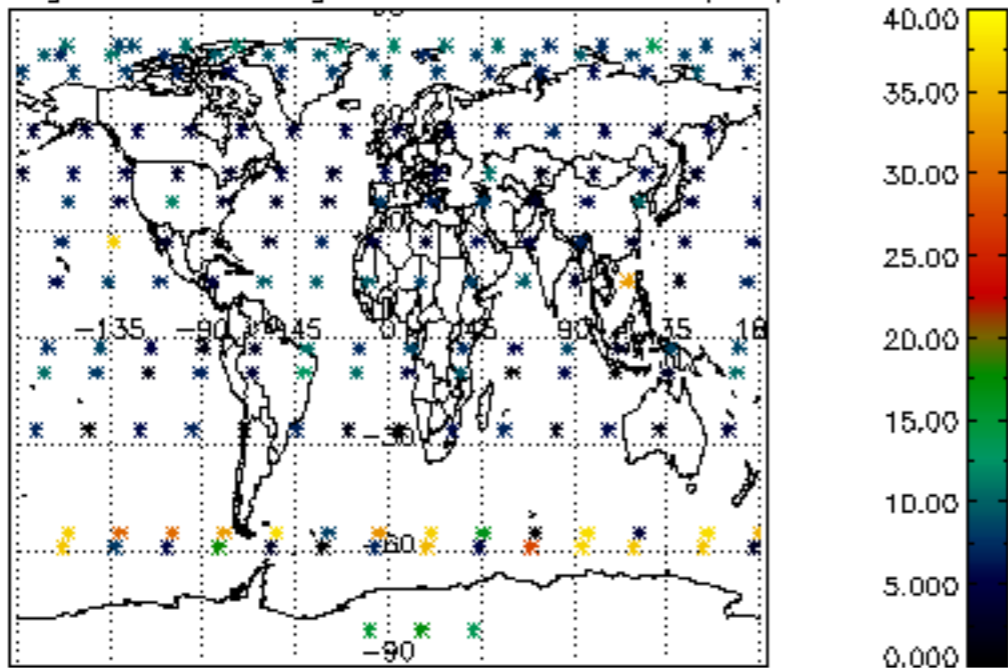
Percentage of cosmic ray hits per profile



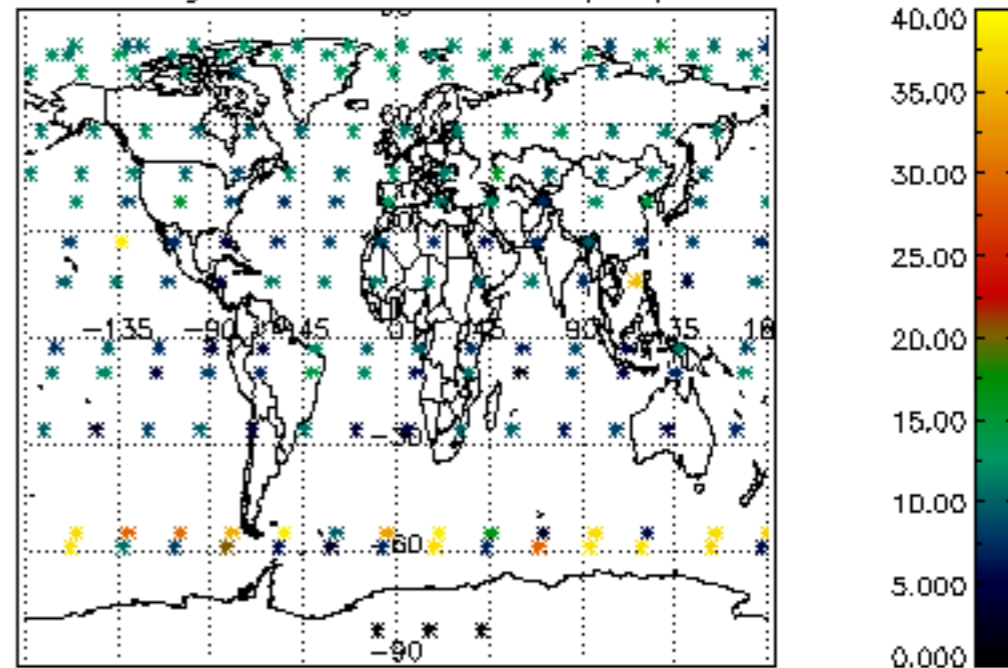
Percentage of datation errors per profile

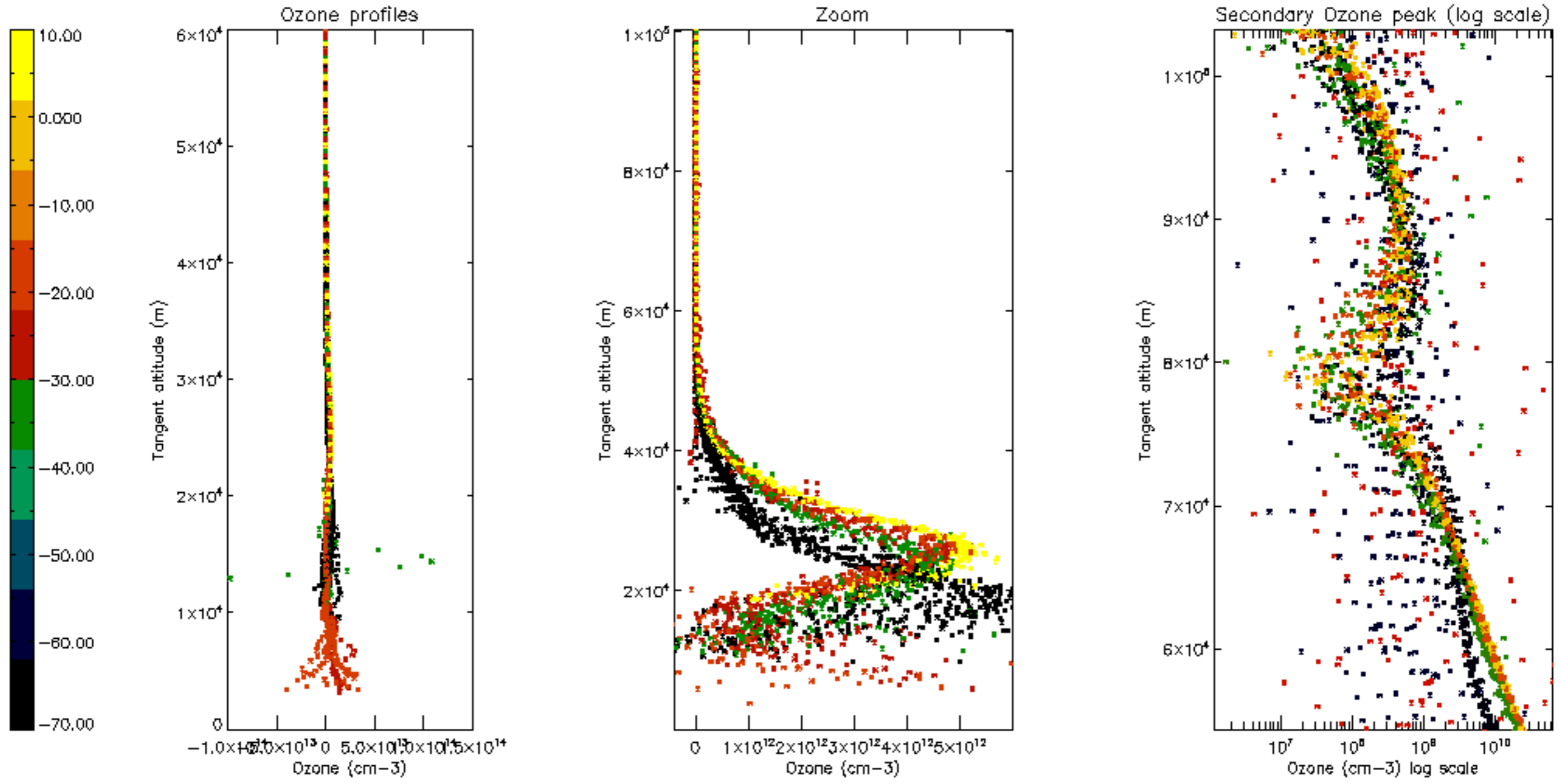


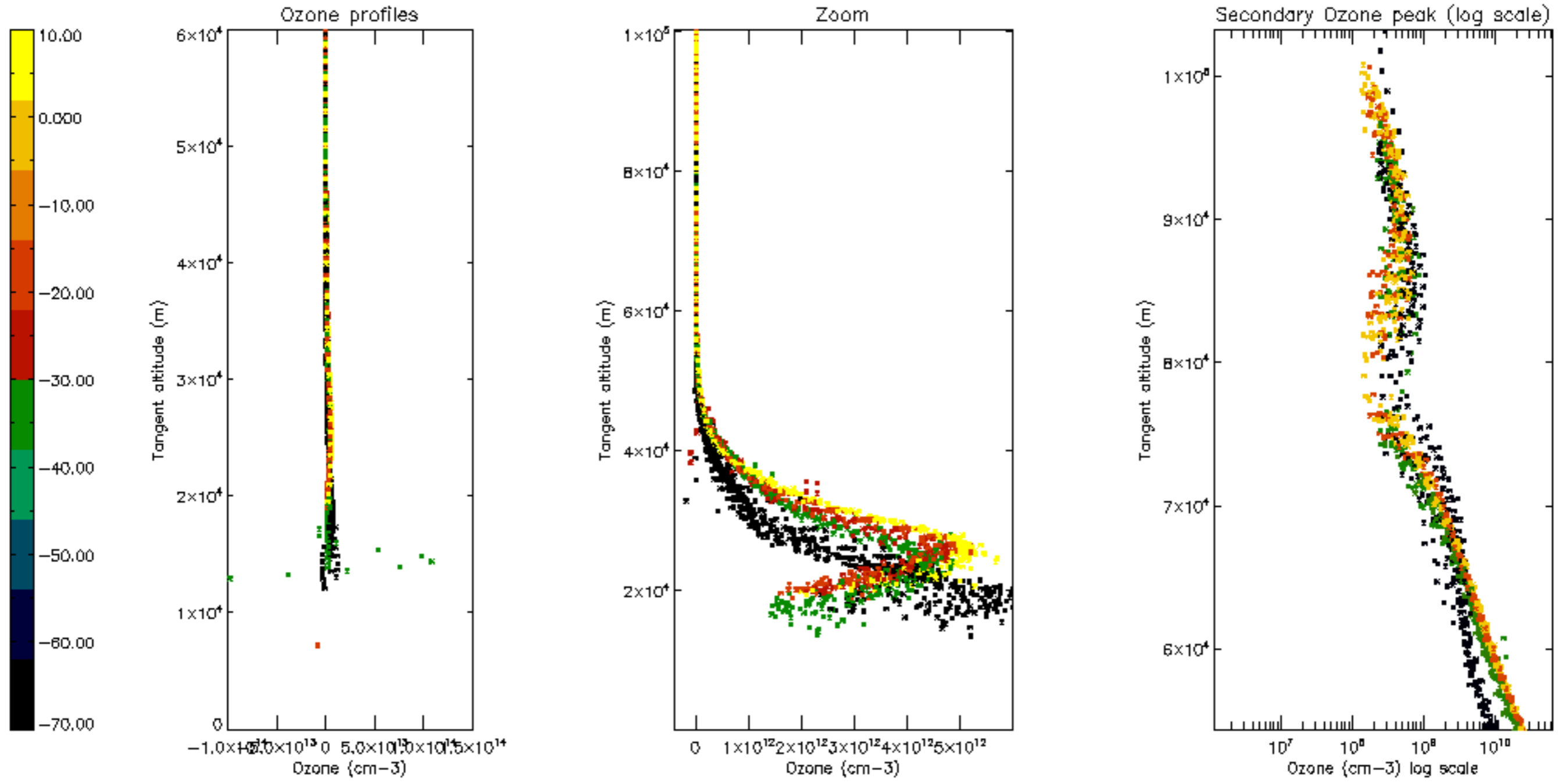
Percentage of star falling outside central band per profile

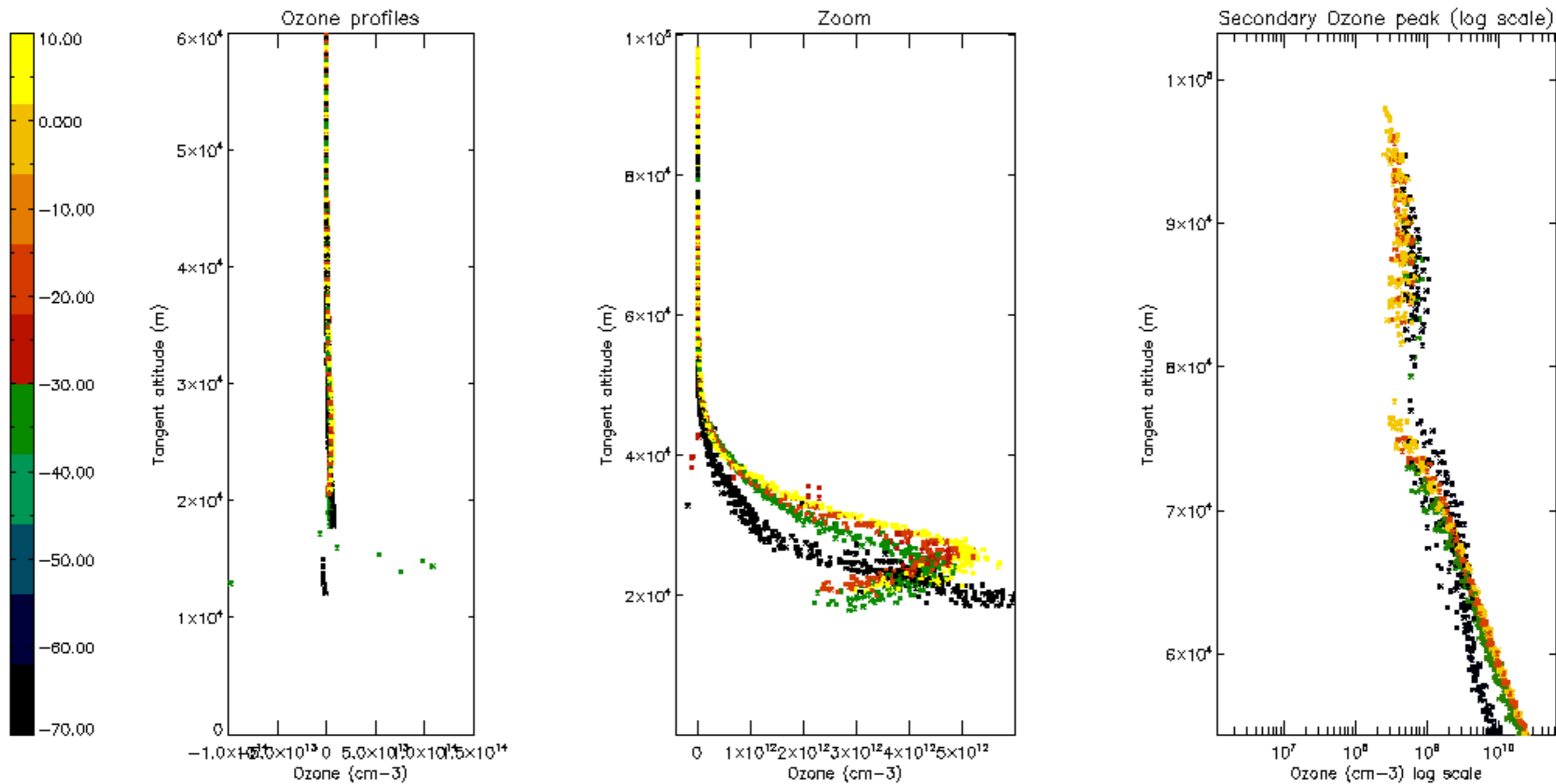


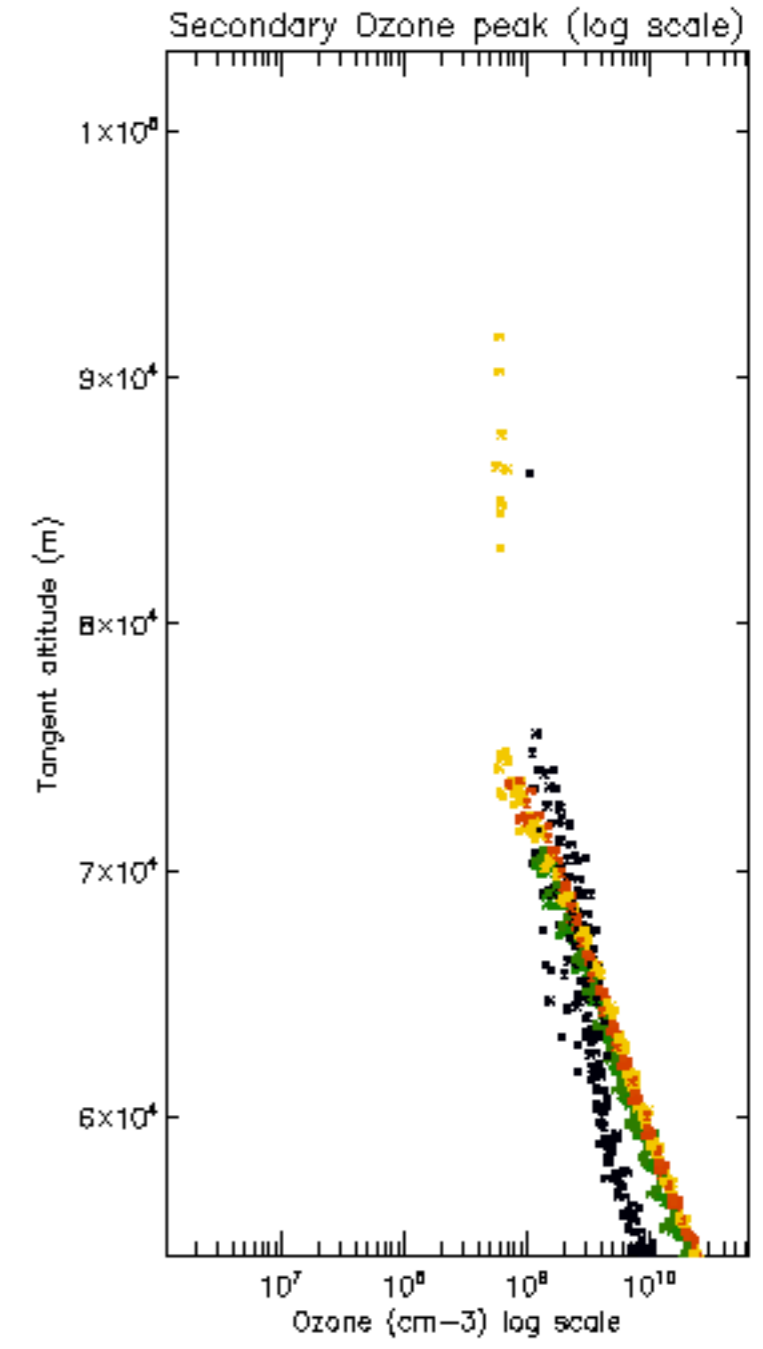
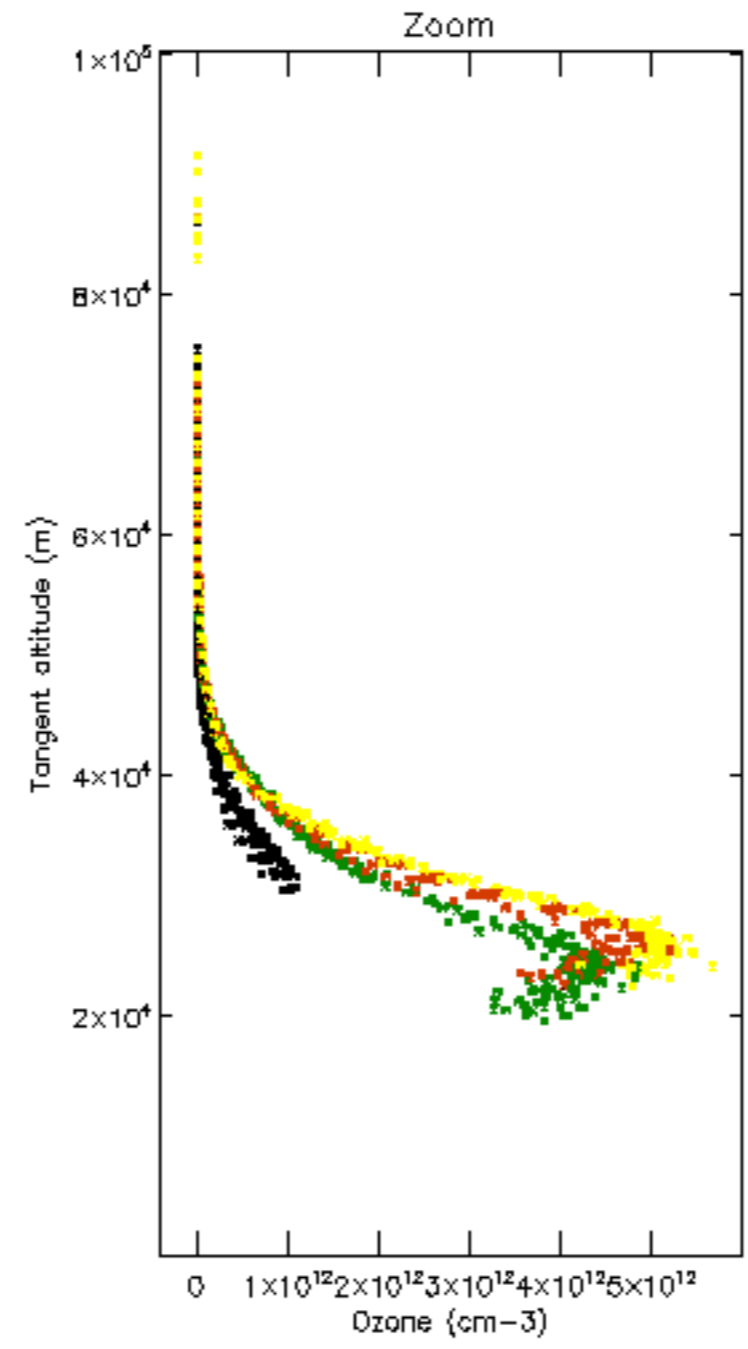
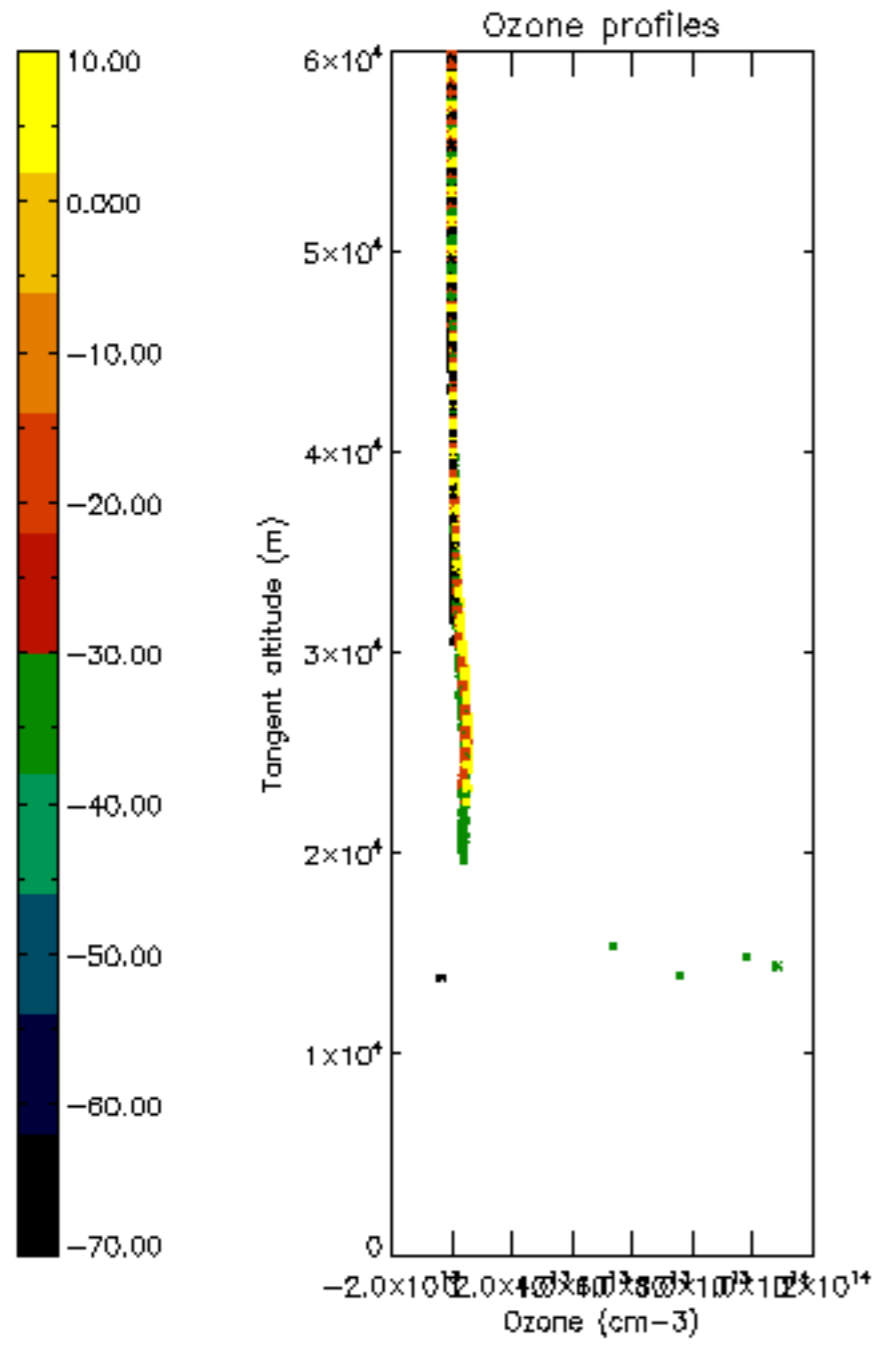
Percentage of saturation errors per profile

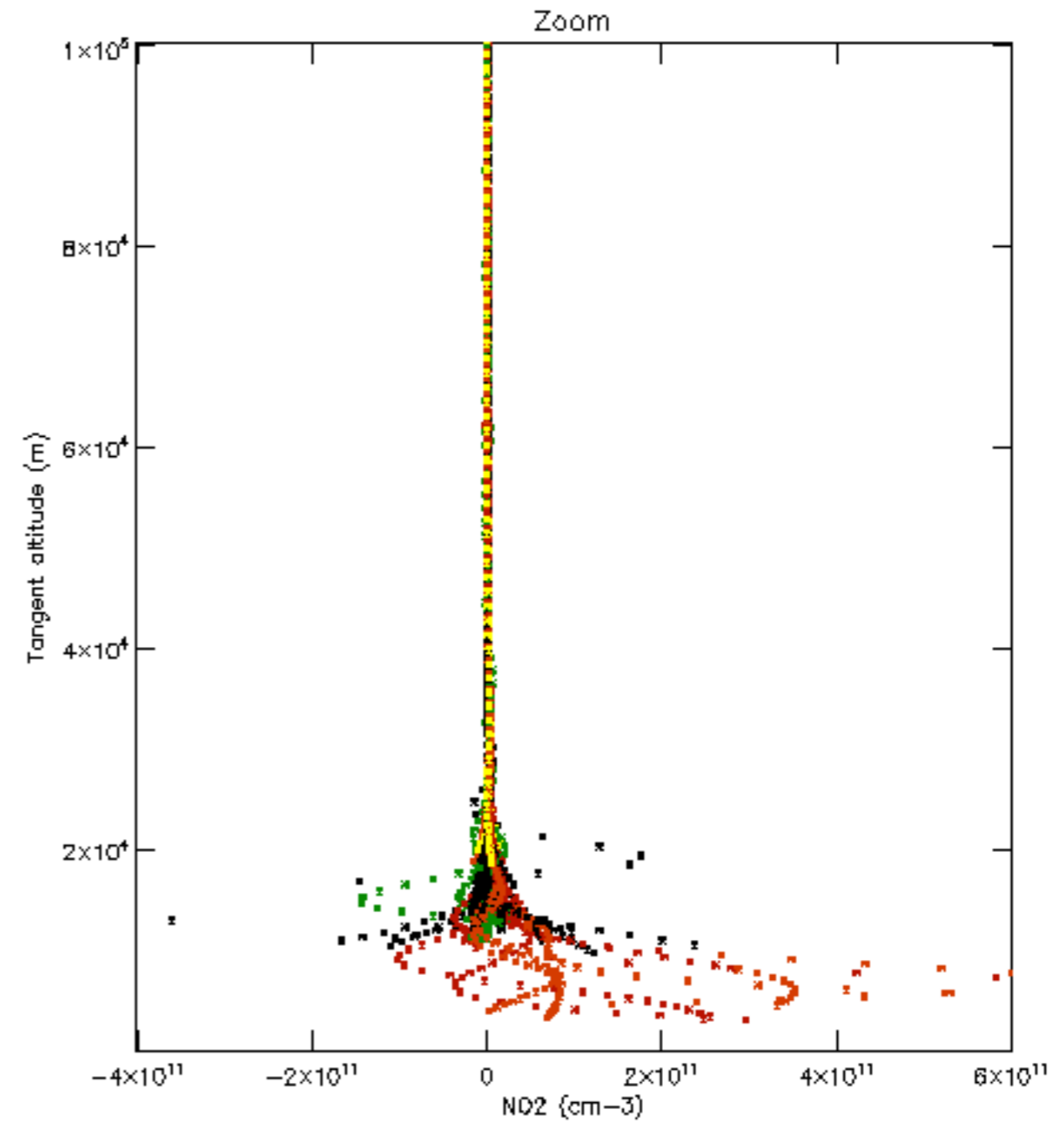
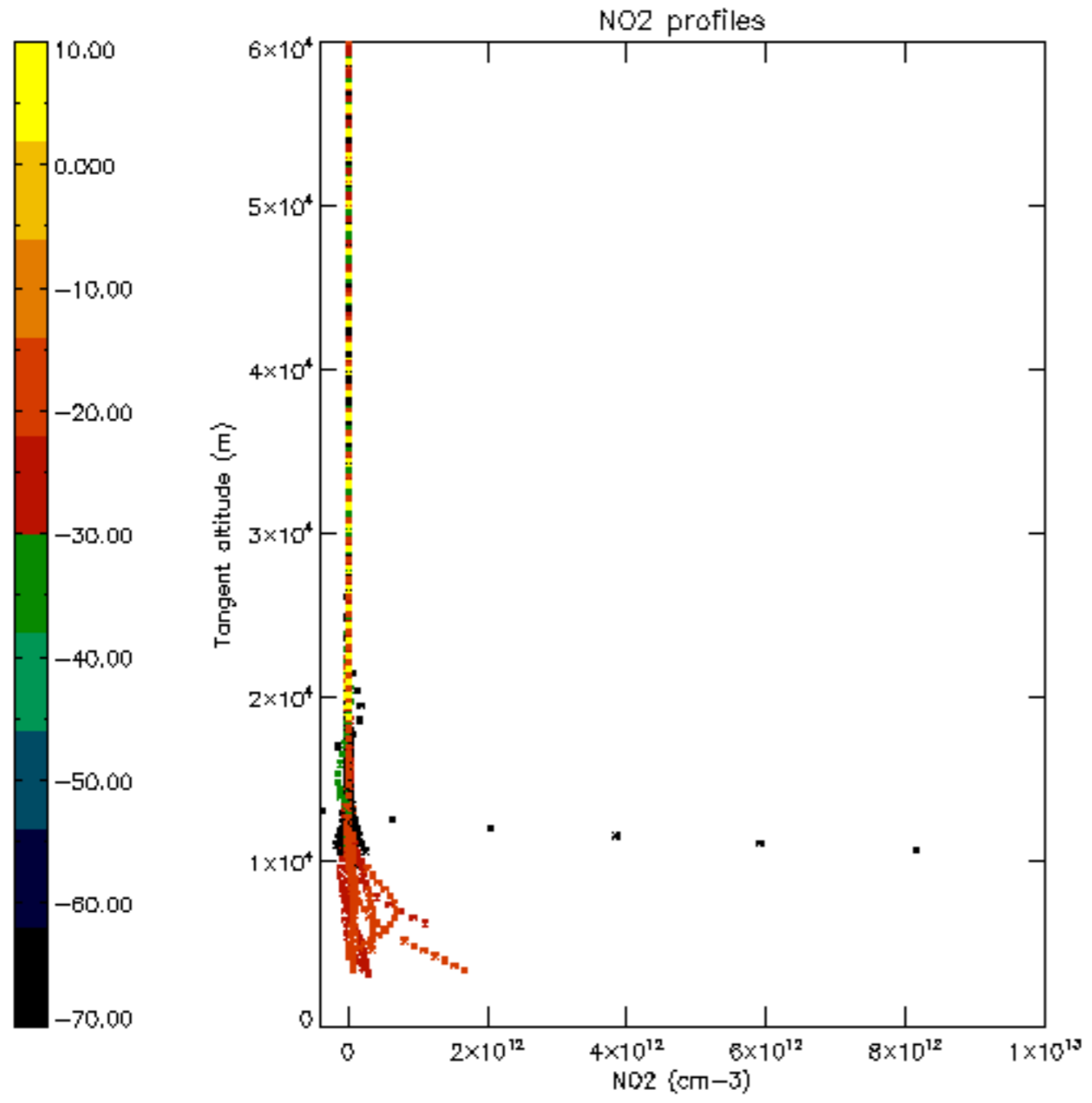


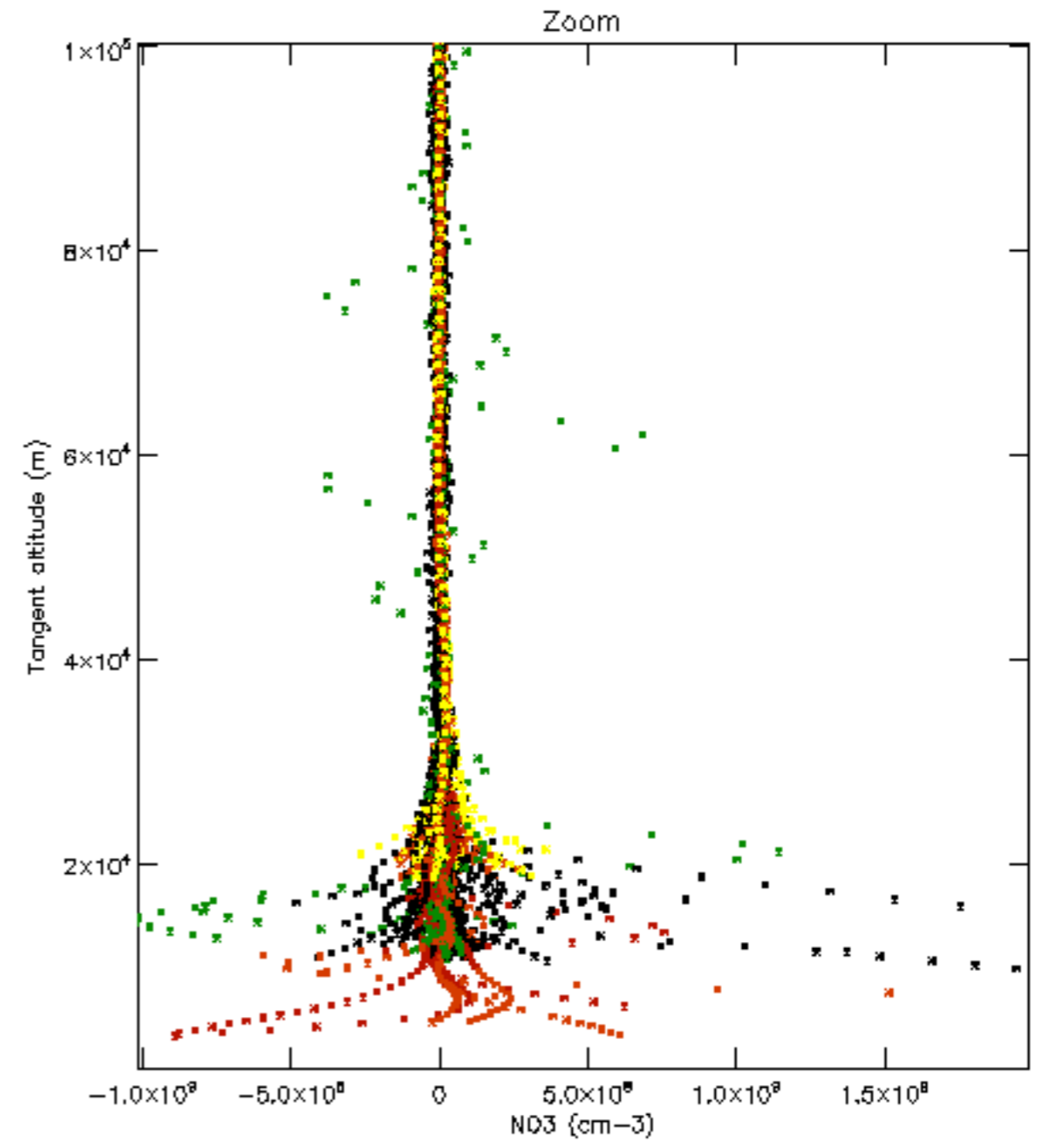
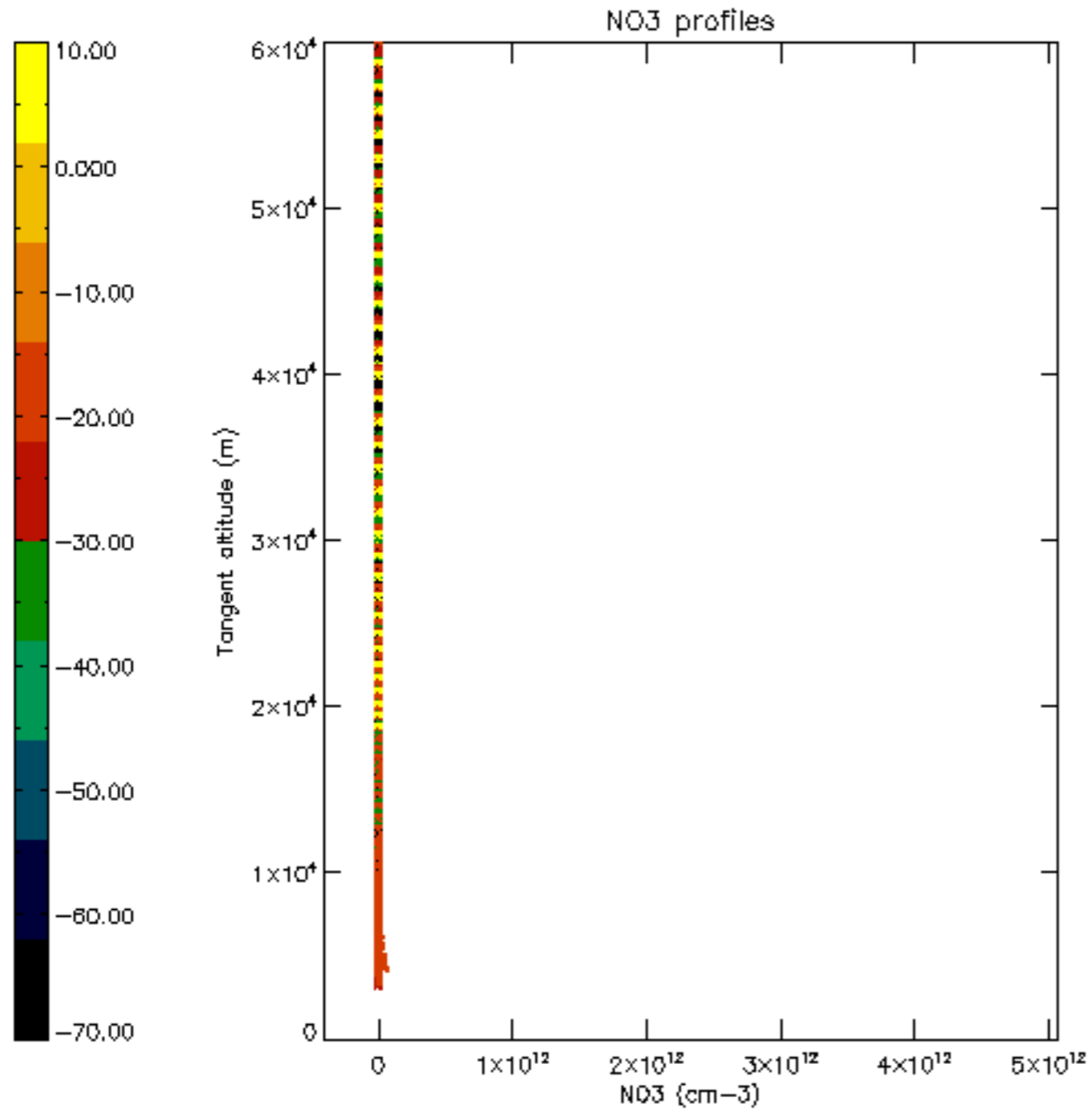


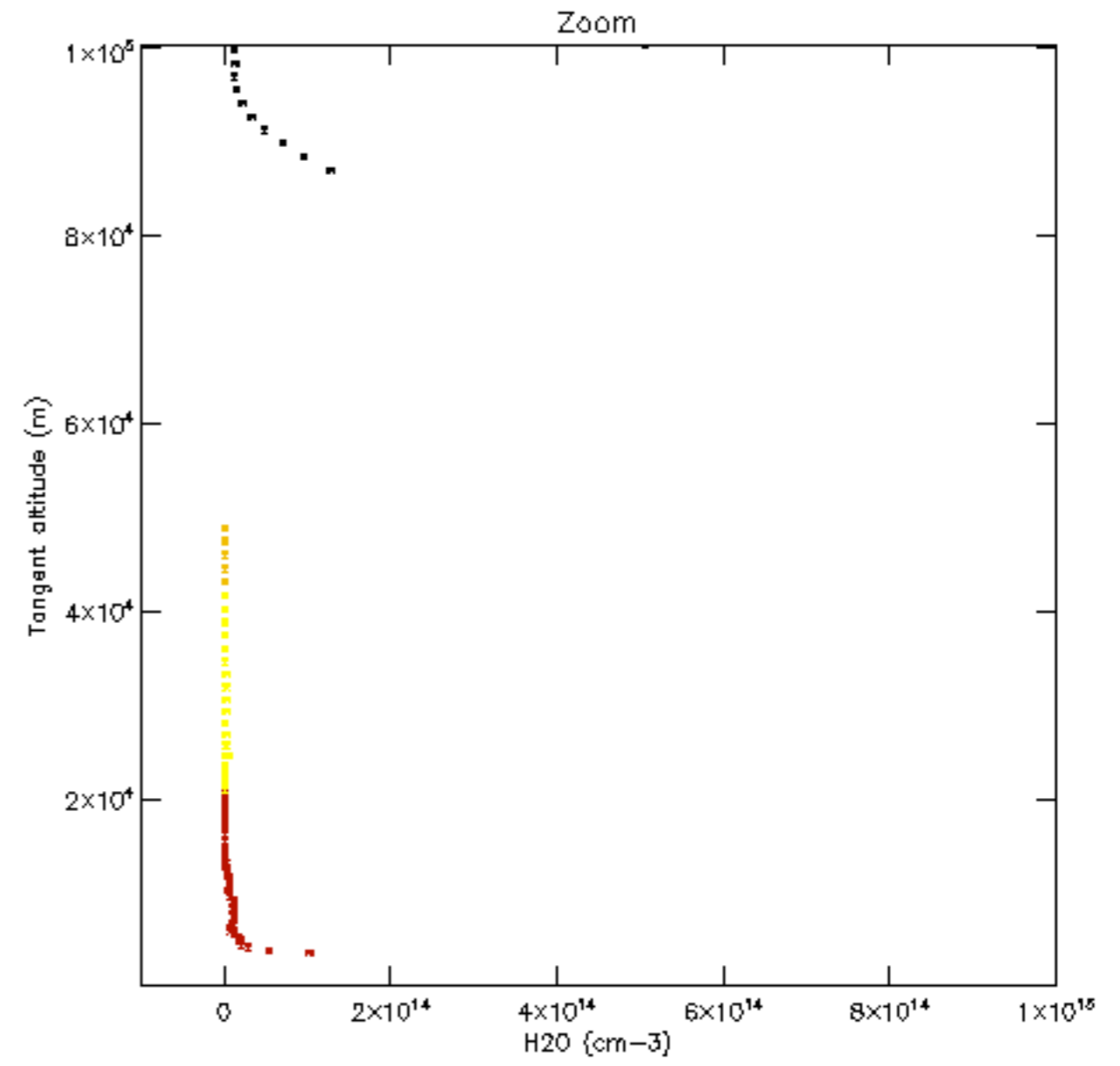
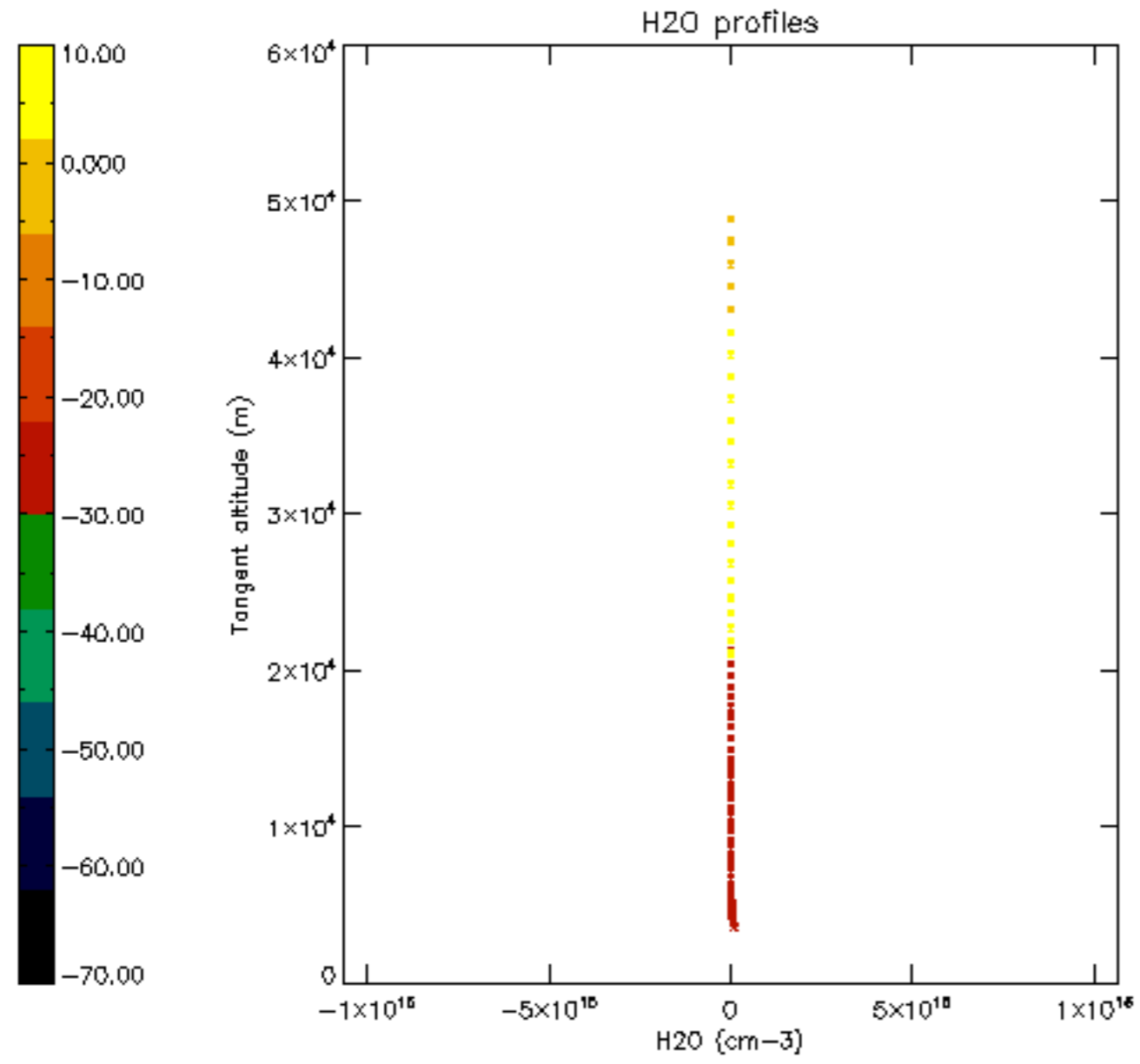


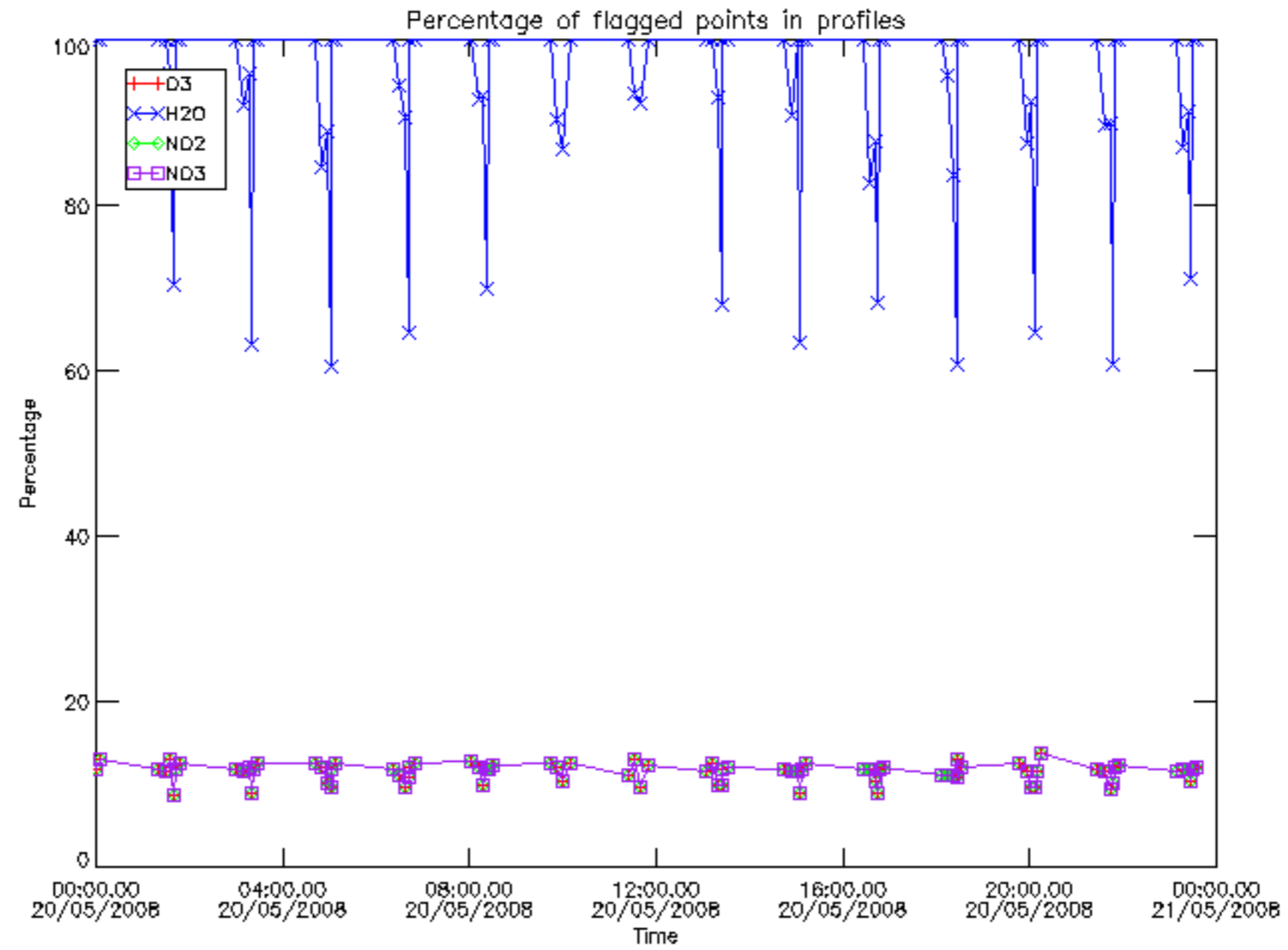




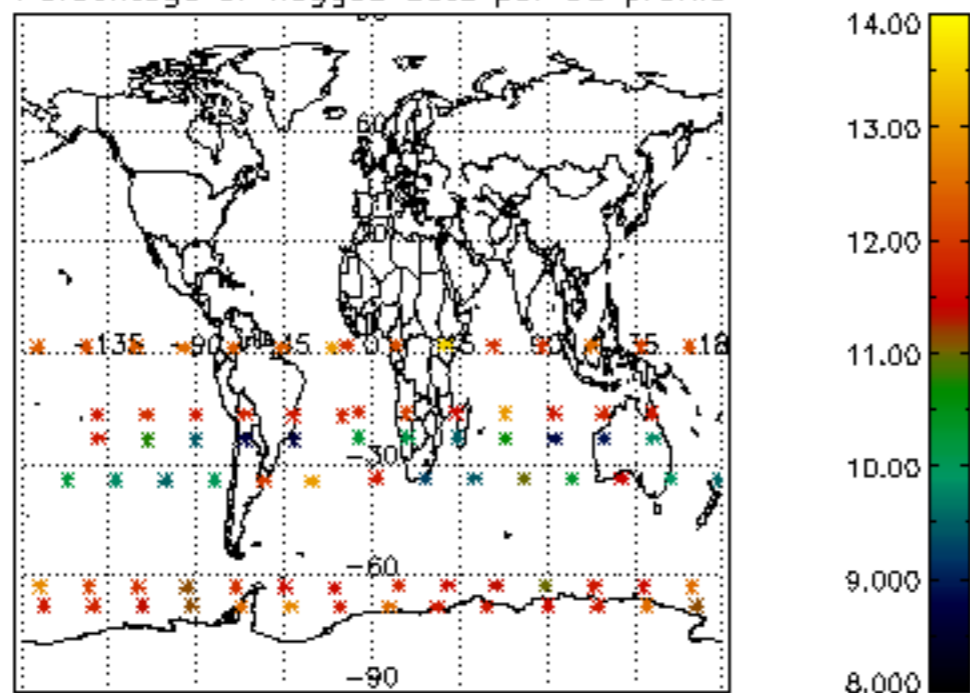




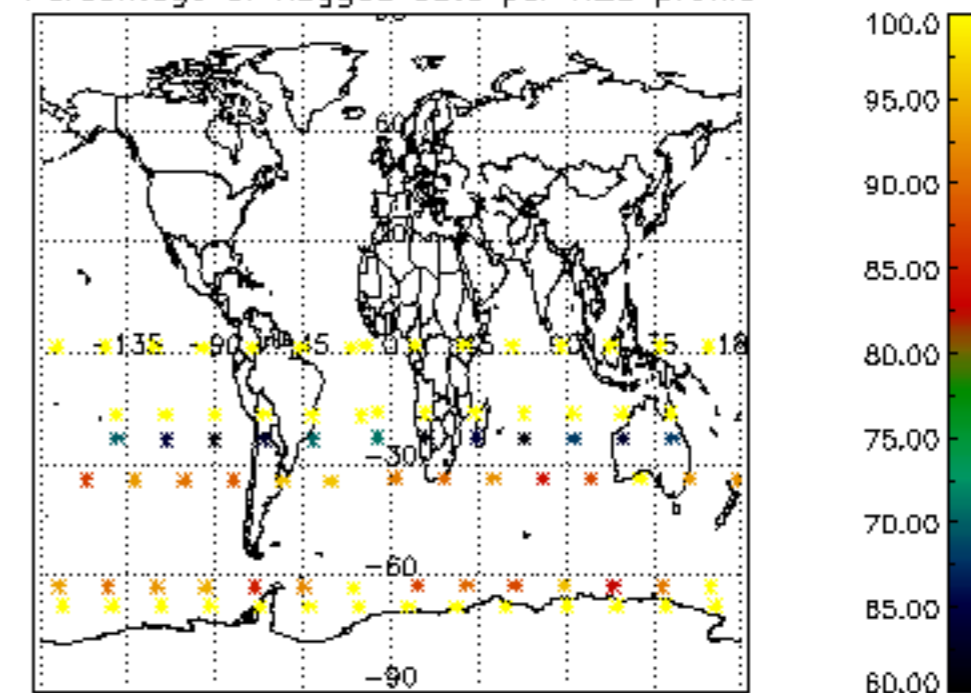




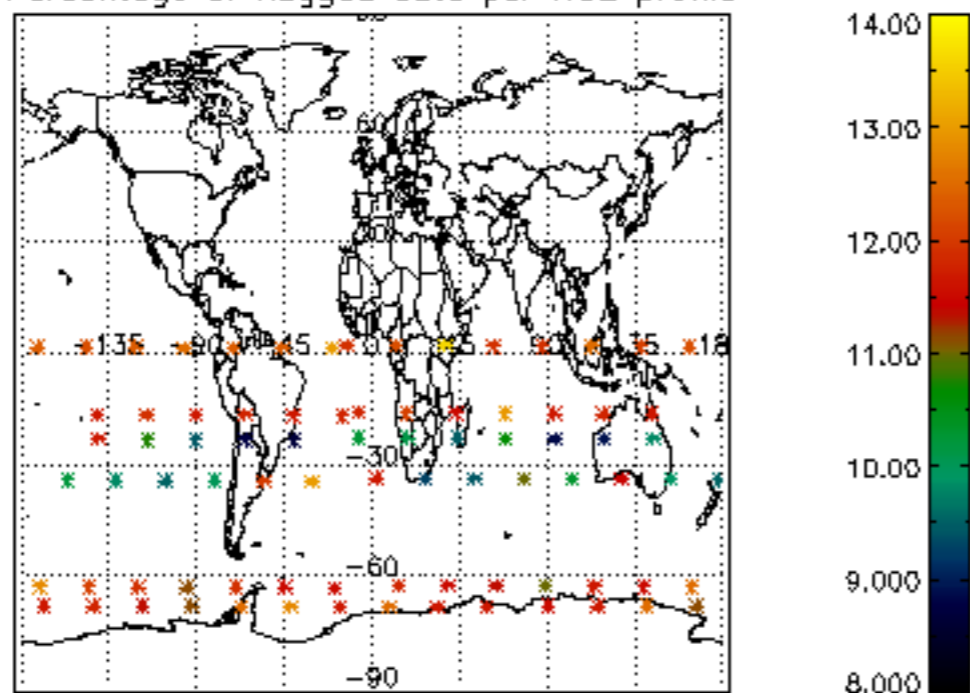
Percentage of flagged data per D3 profile



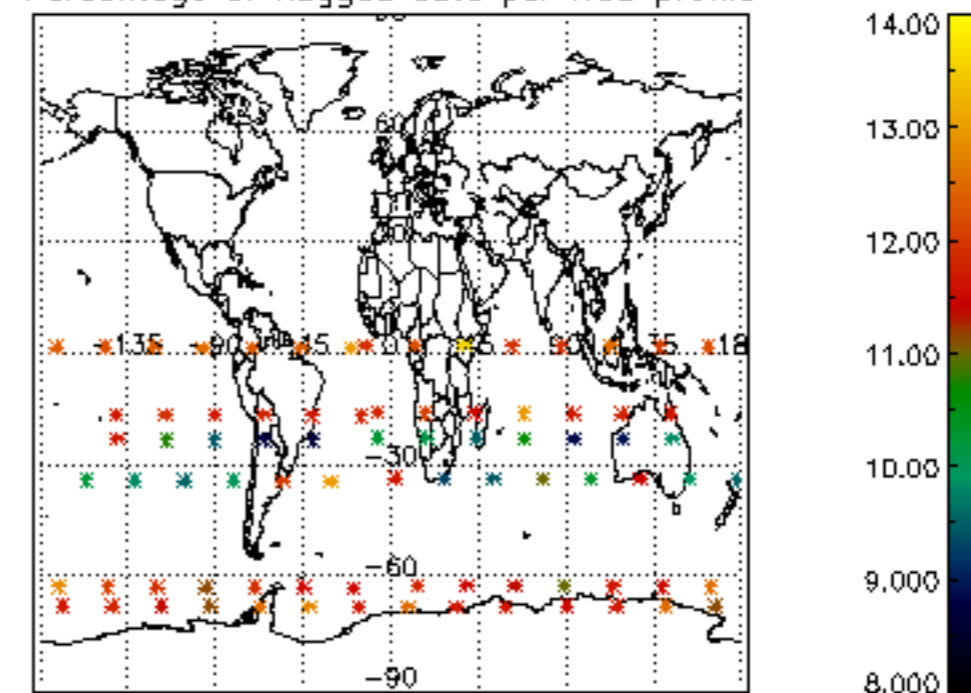
Percentage of flagged data per H2O profile

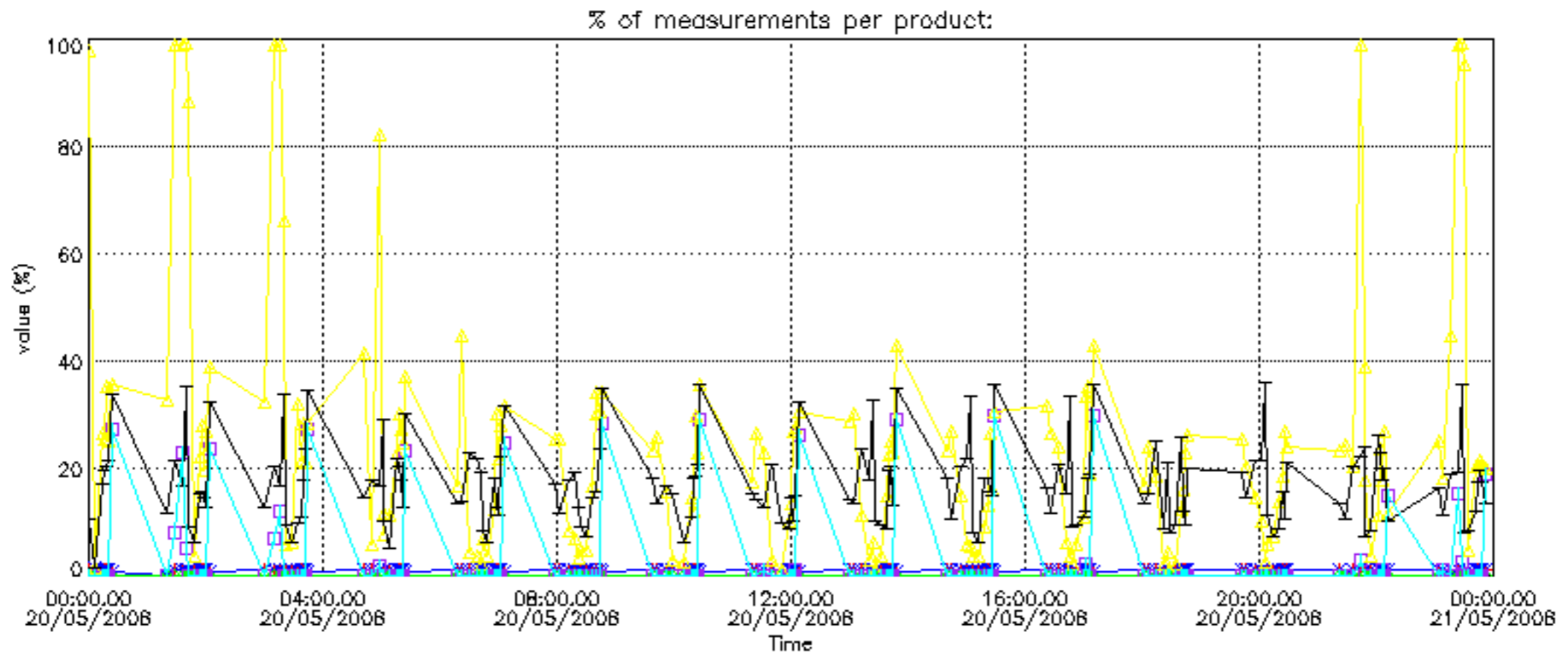


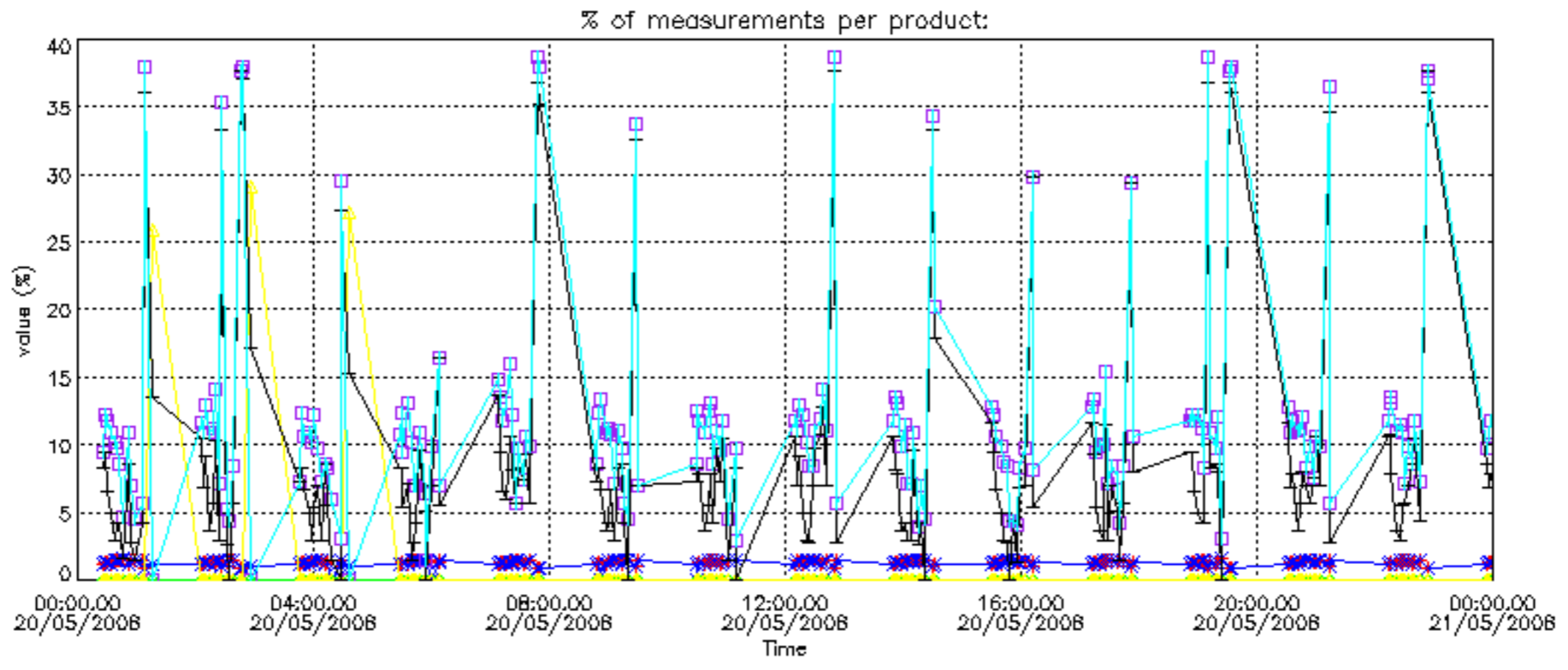
Percentage of flagged data per NO2 profile



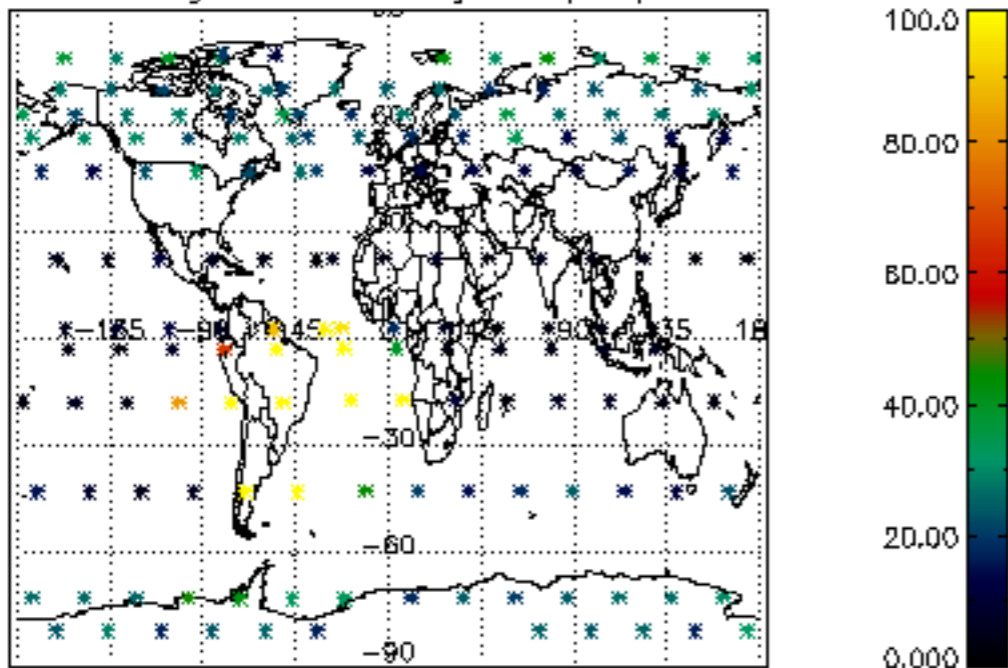
Percentage of flagged data per NO3 profile



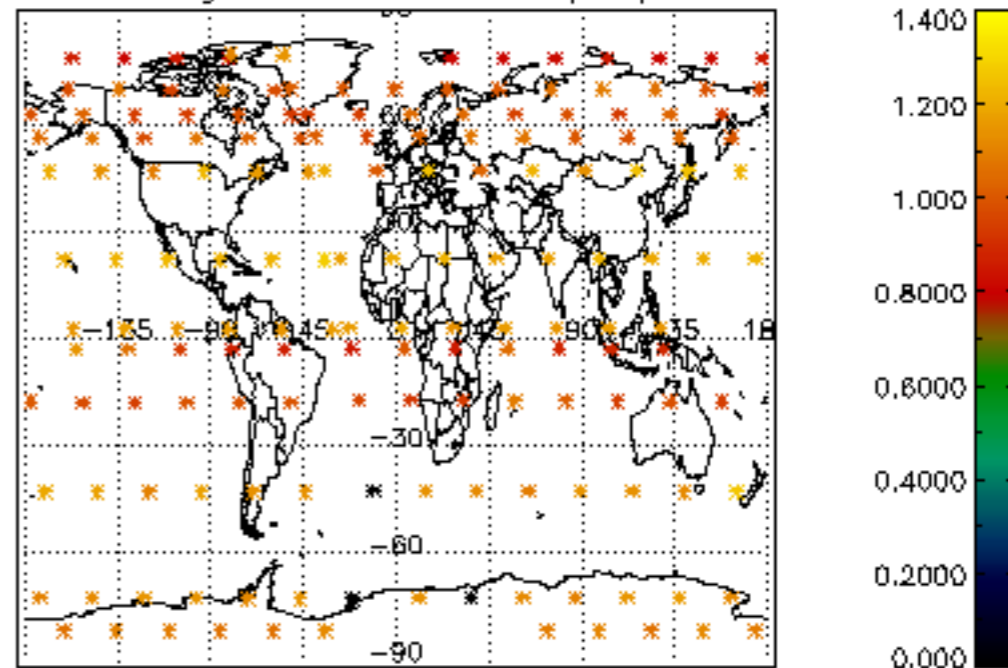




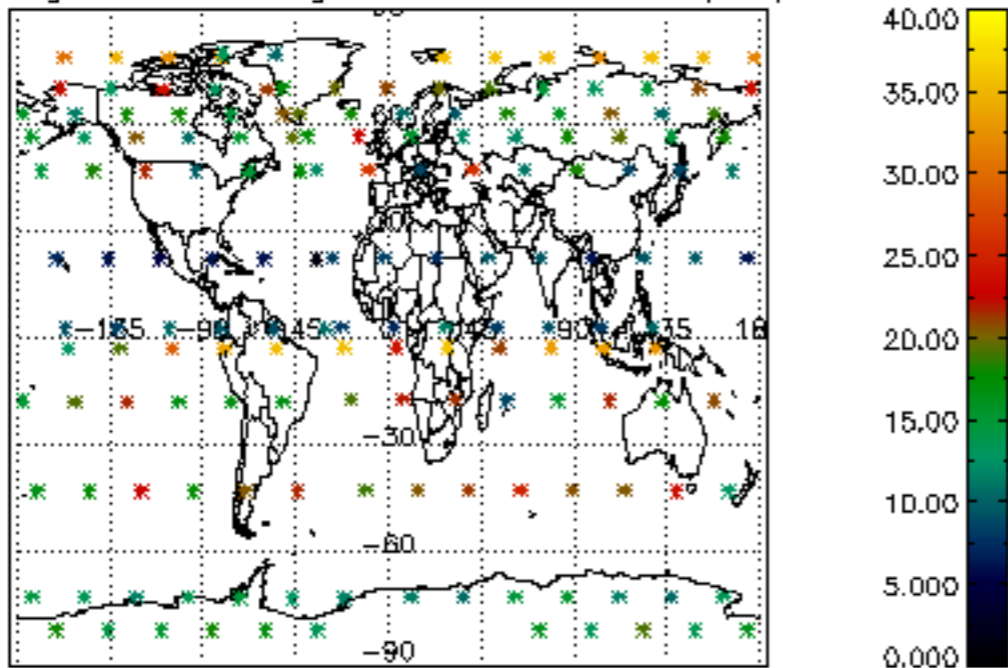
Percentage of cosmic ray hits per profile



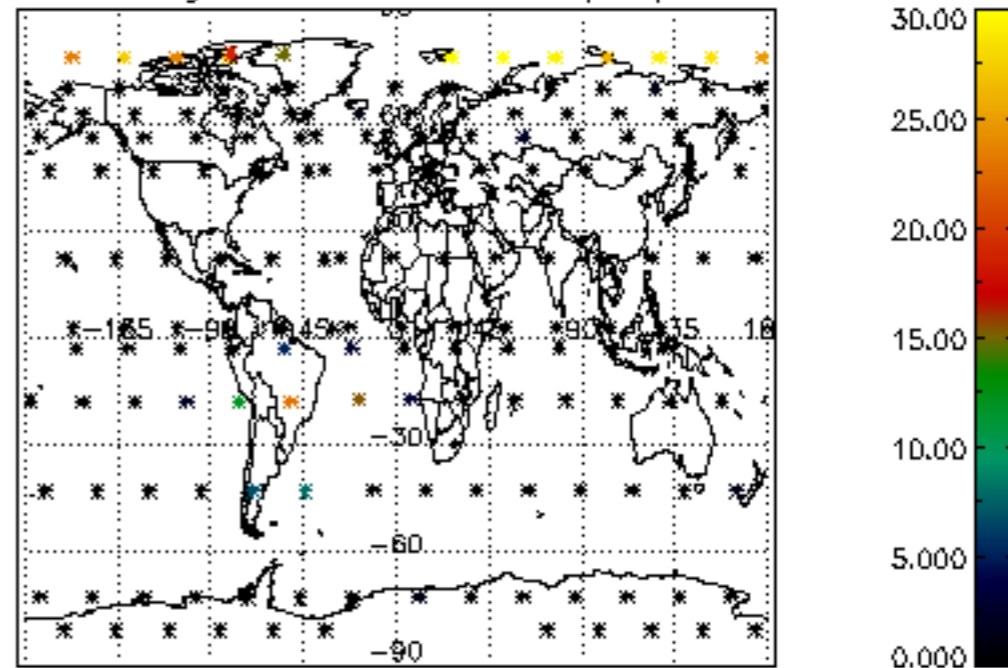
Percentage of datation errors per profile



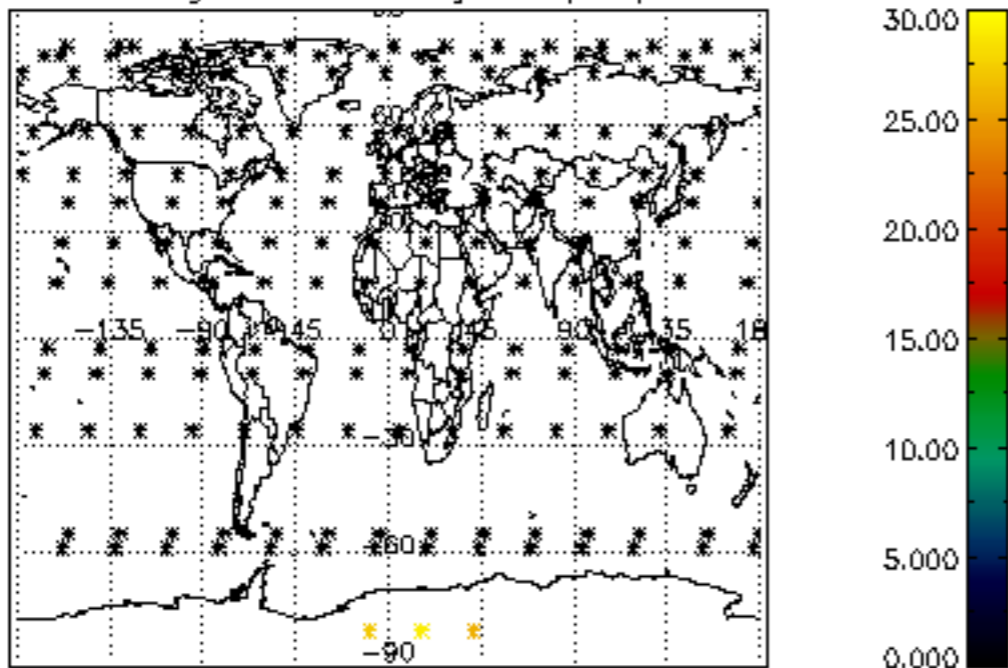
Percentage of star falling outside central band per profile



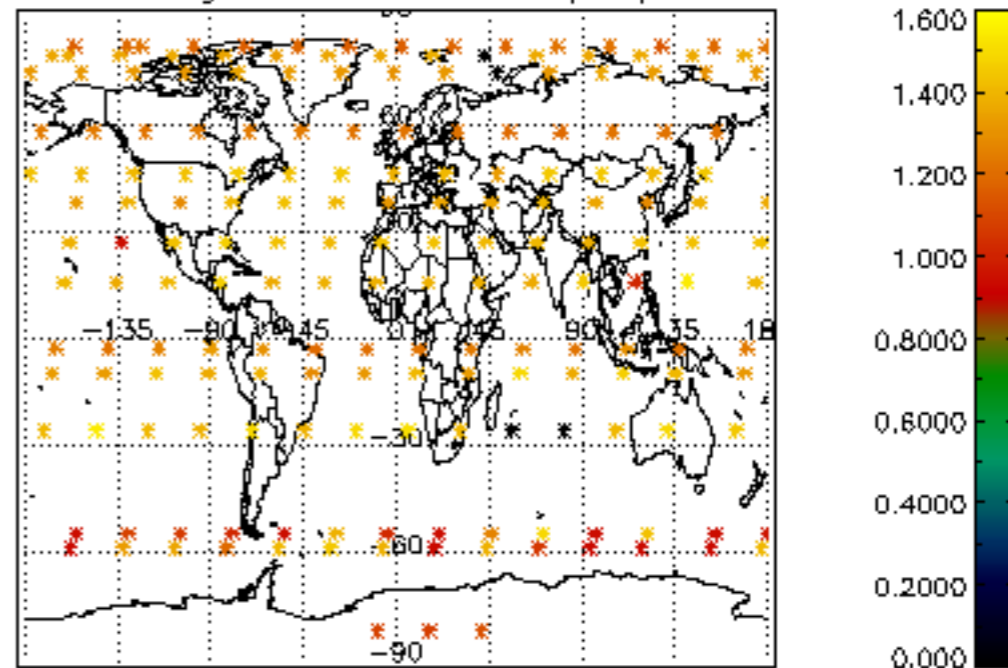
Percentage of saturation errors per profile



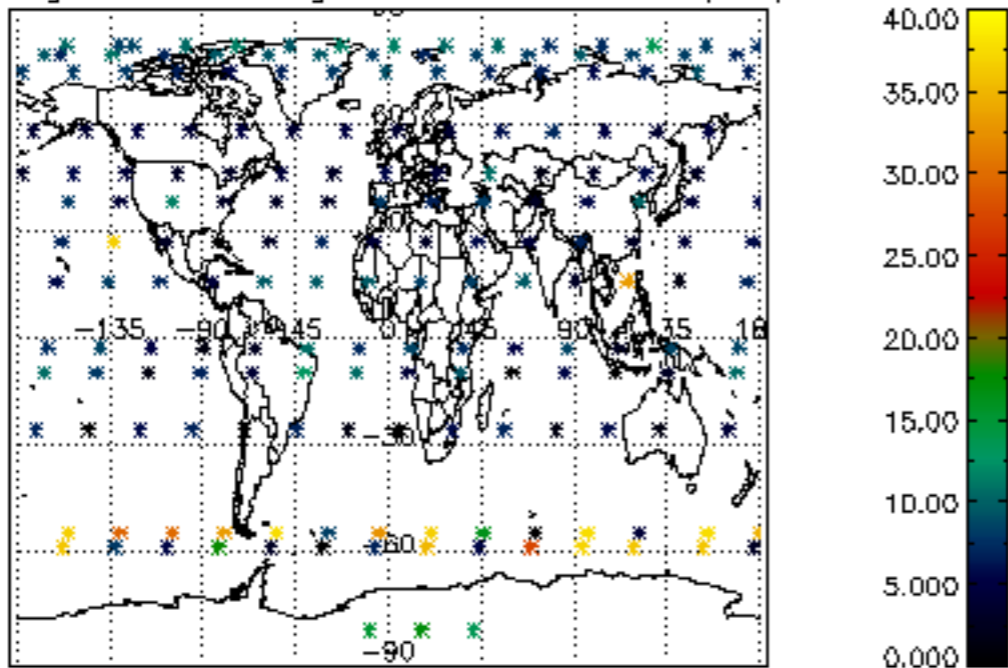
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

