

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	19APR2013 04:36:22
Data source version	GOMOS/6.01
Start time of products	19-06-2004 (19JUN2004 00:00:00)
Stop time of products	20-06-2004 (20JUN2004 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	353
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

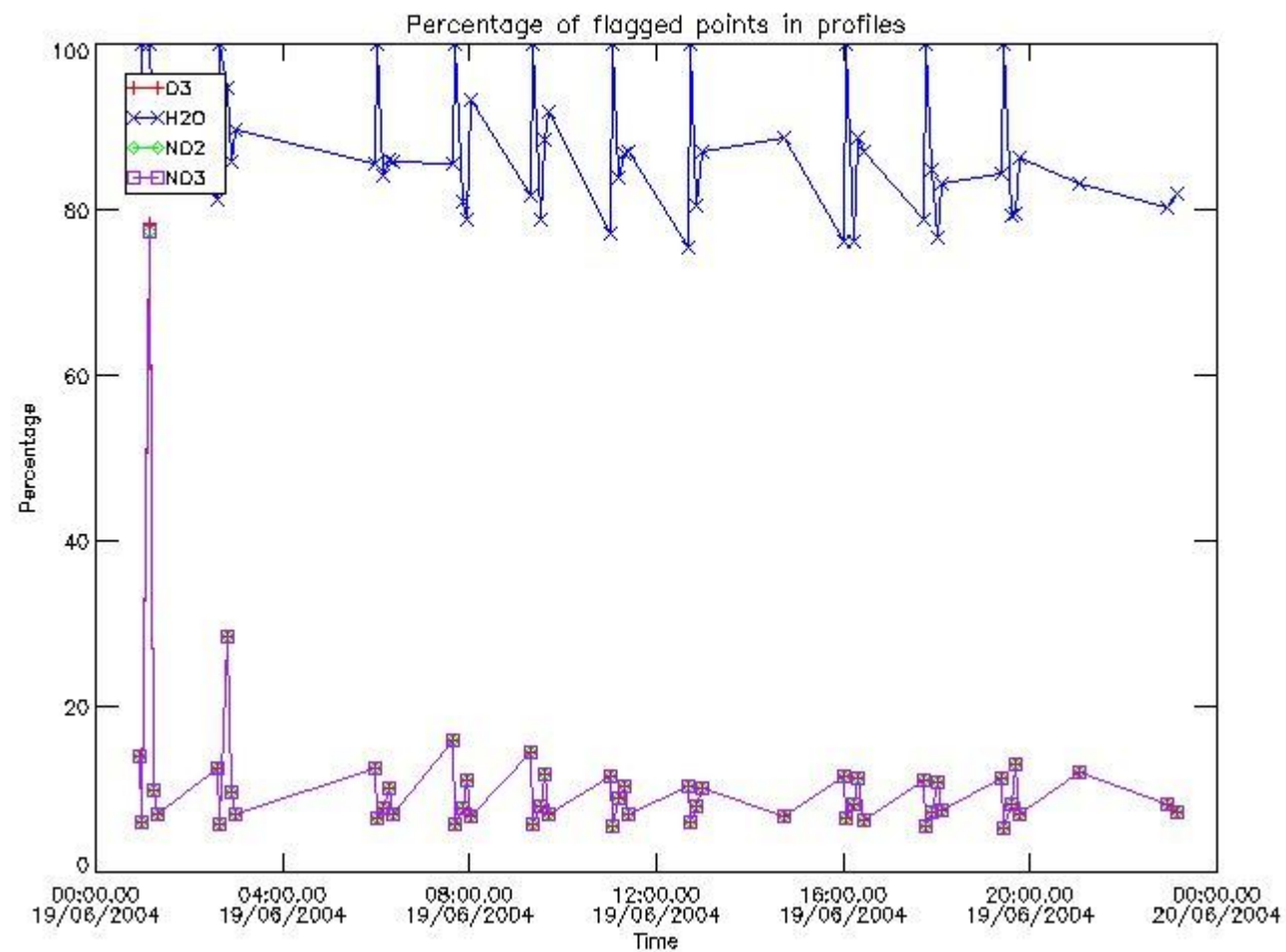
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20040619_000130_000000422027_00460_12037_4072.N1	19-JUN-2004 00:01:30	Bright	41.500	86	35Eta Oph	2.4300	10200.	83	12037	No
2	GOM_NL__2PRFIN20040619_000315_000000382027_00460_12037_4073.N1	19-JUN-2004 00:03:15	Bright	38.000	98	13Zet Oph	2.5710	30000.	76	12037	No
3	GOM_NL__2PRFIN20040619_000520_000000392027_00460_12037_4074.N1	19-JUN-2004 00:05:20	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	12037	No
4	GOM_NL__2PRFIN20040619_000748_000000432027_00460_12037_4075.N1	19-JUN-2004 00:07:48	Bright	43.000	126	60Bet Oph	2.7700	4250.0	86	12037	No
5	GOM_NL__2PRFIN20040619_001016_000000432027_00460_12037_4076.N1	19-JUN-2004 00:10:16	Bright	43.000	59	55Alp Oph	2.0800	8900.0	86	12037	No
6	GOM_NL__2PRFIN20040619_001225_000000392027_00460_12037_4077.N1	19-JUN-2004 00:12:25	Bright	38.500	127	27Bet Her	2.7810	4700.0	77	12037	No
7	GOM_NL__2PRFIN20040619_001406_000000392027_00460_12037_4078.N1	19-JUN-2004 00:14:06	Bright	39.000	67	5Alp CrB	2.2210	11000.	78	12037	No
8	GOM_NL__2PRFIN20040619_001814_000000372027_00460_12037_4079.N1	19-JUN-2004 00:18:14	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	12037	No
9	GOM_NL__2PRFIN20040619_002031_000000462027_00460_12037_4080.N1	19-JUN-2004 00:20:31	Bright	45.500	5	3Alp Lyr	0.033000	11000.	91	12037	No
10	GOM_NL__2PRFIN20040619_002224_000000452027_00460_12037_4081.N1	19-JUN-2004 00:22:24	Bright	44.500	69	33Gam Dra	2.2310	3800.0	89	12037	No
11	GOM_NL__2PRFIN20040619_003157_000000392027_00460_12037_4082.N1	19-JUN-2004 00:31:57	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	12037	No
12	GOM_NL__2PRFIN20040619_003852_000000502027_00460_12037_4083.N1	19-JUN-2004 00:38:52	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	12037	No
13	GOM_NL__2PRFIN20040619_004020_000000452027_00460_12037_4084.N1	19-JUN-2004 00:40:20	Bright	45.000	68	18Alp Cas	2.2250	4500.0	90	12037	No
14	GOM_NL__2PRFIN20040619_004216_000000362027_00460_12037_4085.N1	19-JUN-2004 00:42:16	Bright	35.500	160	23Gam Per	2.9300	4700.0	71	12037	No
15	GOM_NL__2PRFIN20040619_004541_000000442027_00460_12037_4086.N1	19-JUN-2004 00:45:41	Bright	44.000	73	57Gam1And	2.2600	13100.	88	12037	No
16	GOM_NL__2PRFIN20040619_004806_000000692027_00460_12037_4087.N1	19-JUN-2004 00:48:06	Twilight	69.000	53	43Bet And	2.0480	3300.0	138	12037	No
17	GOM_NL__2PRFIN20040619_005143_000000592027_00460_12037_4088.N1	19-JUN-2004 00:51:43	Twilight	59.000	50	13Alp Ari	2.0070	4250.0	118	12037	No
18	GOM_NL__2PRFIN20040619_005630_000000402027_00460_12037_4089.N1	19-JUN-2004 00:56:30	Dark	40.000	94	92Alp Cet	2.5260	3100.0	80	12037	No
19	GOM_NL__2PRFIN20040619_005902_000000852027_00460_12037_4090.N1	19-JUN-2004 00:59:02	Dark	84.500	140	88Gam Peg	2.8340	26000.	169	12037	No
20	GOM_NL__2PRFIN20040619_010807_000000672027_00460_12037_4091.N1	19-JUN-2004 01:08:07	Dark	67.000	52	16Bet Cet	2.0370	4500.0	134	12037	No
21	GOM_NL__2PRFIN20040619_011429_000000522027_00460_12037_4092.N1	19-JUN-2004 01:14:29	Dark	52.000	9	Alp Eri	0.45300	24000.	104	12037	No
22	GOM_NL__2PRFIN20040619_011946_000000732027_00461_12038_4083.N1	19-JUN-2004 01:19:46	Dark	73.000	18	24Alp PsA	1.1660	9700.0	146	12038	No
23	GOM_NL__2PRFIN20040619_012232_000000522027_00461_12038_4084.N1	19-JUN-2004 01:22:32	Straylight	51.500	31	Alp Gru	1.7340	15200.	103	12038	No
24	GOM_NL__2PRFIN20040619_012602_000000472027_00461_12038_4085.N1	19-JUN-2004 01:26:02	Straylight	47.000	45	Alp Pav	1.9400	26000.	94	12038	No
25	GOM_NL__2PRFIN20040619_012740_000000442027_00461_12038_4086.N1	19-JUN-2004 01:27:40	Straylight	44.000	43	Alp TrA	1.9100	4250.0	88	12038	No
26	GOM_NL__2PRFIN20040619_013048_000000432027_00461_12038_4087.N1	19-JUN-2004 01:30:48	Straylight	43.000	141	Bet Ara	2.8400	4600.0	86	12038	No
27	GOM_NL__2PRFIN20040619_013211_000000412027_00461_12038_4088.N1	19-JUN-2004 01:32:11	Straylight	41.000	147	Alp Ara	2.8770	26000.	82	12038	No
28	GOM_NL__2PRFIN20040619_013357_000000462027_00461_12038_4089.N1	19-JUN-2004 01:33:57	Twilight	45.500	40	The Sco	1.8590	7100.0	91	12038	No
29	GOM_NL__2PRFIN20040619_013539_000000422027_00461_12038_4090.N1	19-JUN-2004 01:35:39	Twilight	42.000	25	35Lam Sco	1.6200	28000.	84	12038	No
30	GOM_NL__2PRFIN20040619_013703_000000422027_00461_12038_4091.N1	19-JUN-2004 01:37:03	Bright	41.500	75	26Eps Sco	2.2910	4250.0	83	12038	No
31	GOM_NL__2PRFIN20040619_013912_000000562027_00461_12038_4092.N1	19-JUN-2004 01:39:12	Bright	55.500	155	41Pi Sgr	2.9000	6600.0	111	12038	No
32	GOM_NL__2PRFIN20040619_014207_000000412027_00461_12038_4093.N1	19-JUN-2004 01:42:07	Bright	40.500	86	35Eta Oph	2.4300	10200.	81	12038	No
33	GOM_NL__2PRFIN20040619_014351_000000392027_00461_12038_4094.N1	19-JUN-2004 01:43:51	Bright	38.500	98	13Zet Oph	2.5710	30000.	77	12038	No
34	GOM_NL__2PRFIN20040619_014556_000000392027_00461_12038_4095.N1	19-JUN-2004 01:45:56	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	12038	No
35	GOM_NL__2PRFIN20040619_014824_000000432027_00461_12038_4096.N1	19-JUN-2004 01:48:24	Bright	43.000	126	60Bet Oph	2.7700	4250.0	86	12038	No
36	GOM_NL__2PRFIN20040619_015049_000000442027_00461_12038_4097.N1	19-JUN-2004 01:50:49	Bright	44.000	59	55Alp Oph	2.0800	8900.0	88	12038	No
37	GOM_NL__2PRFIN20040619_015302_000000372027_00461_12038_4098.N1	19-JUN-2004 01:53:02	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	12038	No
38	GOM_NL__2PRFIN20040619_015440_000000422027_00461_12038_4099.N1	19-JUN-2004 01:54:40	Bright	42.000	67	5Alp CrB	2.2210	11000.	84	12038	No
39	GOM_NL__2PRFIN20040619_015850_000000382027_00461_12038_4100.N1	19-JUN-2004 01:58:50	Bright	37.500	180	27Gam Boo	3.0400	8000.0	75	12038	No
40	GOM_NL__2PRFIN20040619_020106_000000492027_00461_12038_4101.N1	19-JUN-2004 02:01:06	Bright	48.500	5	3Alp Lyr	0.033000	11000.	97	12038	No
41	GOM_NL__2PRFIN20040619_020300_000000452027_00461_12038_4102.N1	19-JUN-2004 02:03:00	Bright	45.000	69	33Gam Dra	2.2310	3800.0	90	12038	No
42	GOM_NL__2PRFIN20040619_021233_000000382027_00461_12038_4103.N1	19-JUN-2004 02:12:33	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	12038	No

338	GOM_NL__2PRFIN20040619_231838_000000412027_00474_12051_2083.N1	19-JUN-2004 23:18:38	Straylight	41.000	141	Bet Ara	2.8400	4600.0	82	12051	No
339	GOM_NL__2PRFIN20040619_232002_000000412027_00474_12051_2084.N1	19-JUN-2004 23:20:02	Straylight	41.000	147	Alp Ara	2.8770	26000.	82	12051	No
340	GOM_NL__2PRFIN20040619_232147_000000472027_00474_12051_2085.N1	19-JUN-2004 23:21:47	Twilight_stray	46.500	40	The Sco	1.8590	7100.0	93	12051	No
341	GOM_NL__2PRFIN20040619_232320_000000532027_00474_12051_2086.N1	19-JUN-2004 23:23:20	Twilight_stray	52.500	38	20Eps Sgr	1.8360	11000.	105	12051	No
342	GOM_NL__2PRFIN20040619_232450_000000522027_00474_12051_2087.N1	19-JUN-2004 23:24:50	Bright	52.000	75	26Eps Sco	2.2910	4250.0	104	12051	No
343	GOM_NL__2PRFIN20040619_232702_000000542027_00474_12051_2088.N1	19-JUN-2004 23:27:02	Bright	53.500	155	41Pi Sgr	2.9000	6600.0	107	12051	No
344	GOM_NL__2PRFIN20040619_232955_000000422027_00474_12051_2089.N1	19-JUN-2004 23:29:55	Bright	41.500	86	35Eta Oph	2.4300	10200.	83	12051	No
345	GOM_NL__2PRFIN20040619_233139_000000392027_00474_12051_2090.N1	19-JUN-2004 23:31:39	Bright	38.500	98	13Zet Oph	2.5710	30000.	77	12051	No
346	GOM_NL__2PRFIN20040619_233343_000000402027_00474_12051_2091.N1	19-JUN-2004 23:33:43	Bright	40.000	120	1Del Oph	2.7340	3200.0	80	12051	No
347	GOM_NL__2PRFIN20040619_233608_000000432027_00474_12051_2092.N1	19-JUN-2004 23:36:08	Bright	43.000	126	60Bet Oph	2.7700	4250.0	86	12051	No
348	GOM_NL__2PRFIN20040619_233835_000000442027_00474_12051_2093.N1	19-JUN-2004 23:38:35	Bright	43.500	59	55Alp Oph	2.0800	8900.0	87	12051	No
349	GOM_NL__2PRFIN20040619_234045_000000412027_00474_12051_2094.N1	19-JUN-2004 23:40:45	Bright	40.500	127	27Bet Her	2.7810	4700.0	81	12051	No
350	GOM_NL__2PRFIN20040619_234229_000000402027_00474_12051_2095.N1	19-JUN-2004 23:42:29	Bright	40.000	67	5Alp CrB	2.2210	11000.	80	12051	No
351	GOM_NL__2PRFIN20040619_234641_000000382027_00474_12051_2096.N1	19-JUN-2004 23:46:41	Bright	37.500	180	27Gam Boo	3.0400	8000.0	75	12051	No
352	GOM_NL__2PRFIN20040619_235209_000000402027_00474_12051_2097.N1	19-JUN-2004 23:52:09	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	12051	No
353	GOM_NL__2PRFIN20040619_235546_000000422027_00474_12051_2098.N1	19-JUN-2004 23:55:46	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	12051	No

3. Quality information per product

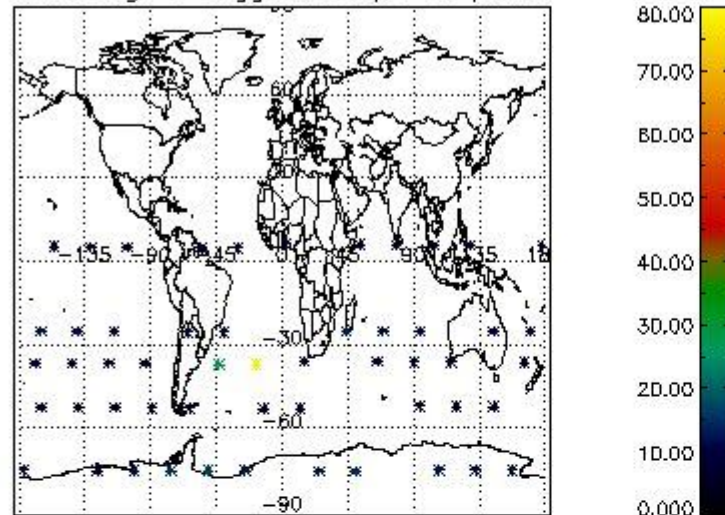
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

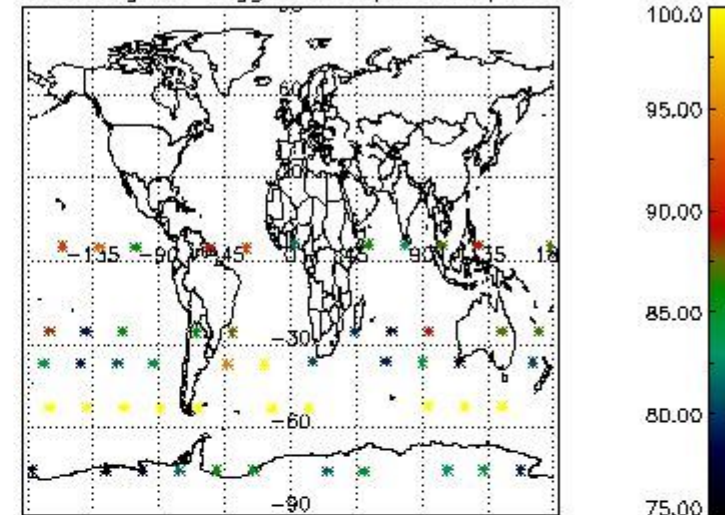


3.2 Plot quality information per product (world map)

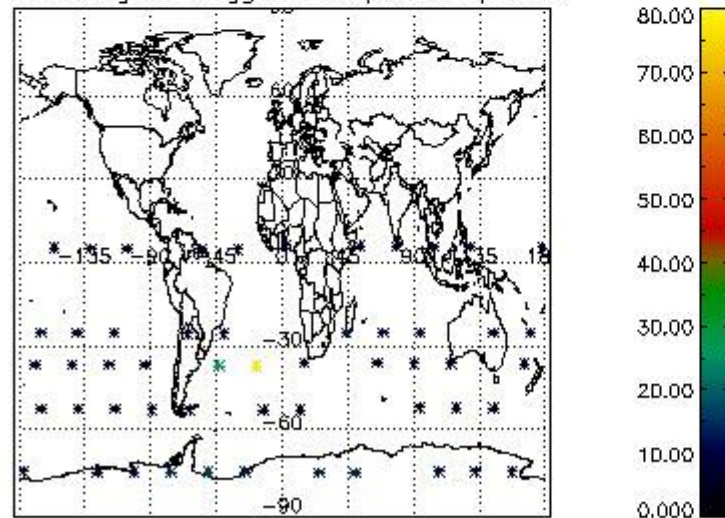
Percentage of flagged data per O3 profile



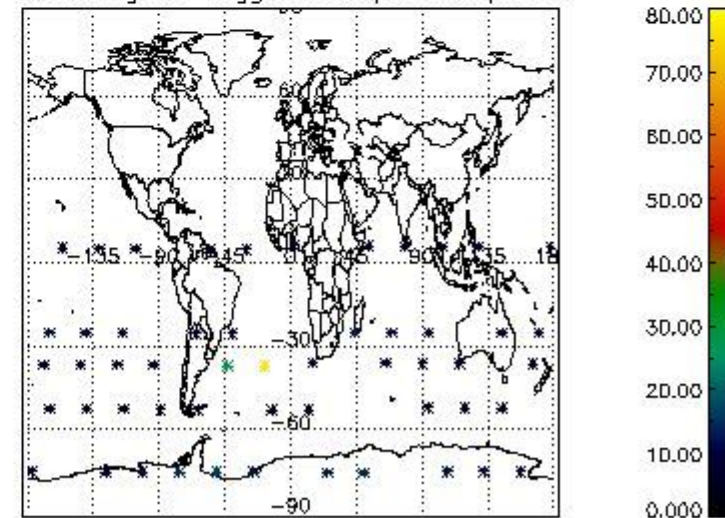
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

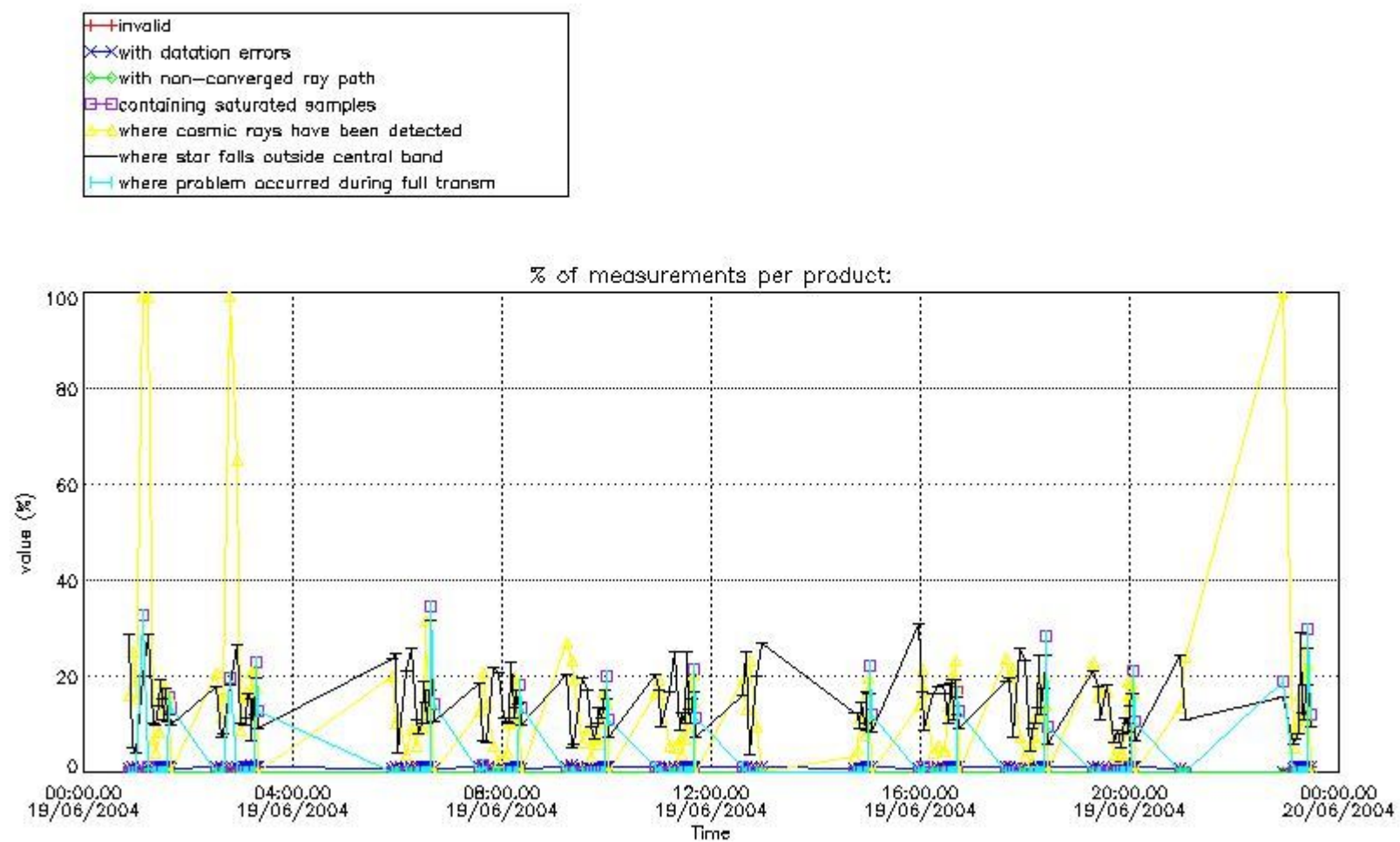


4. Level 1 quality information per product

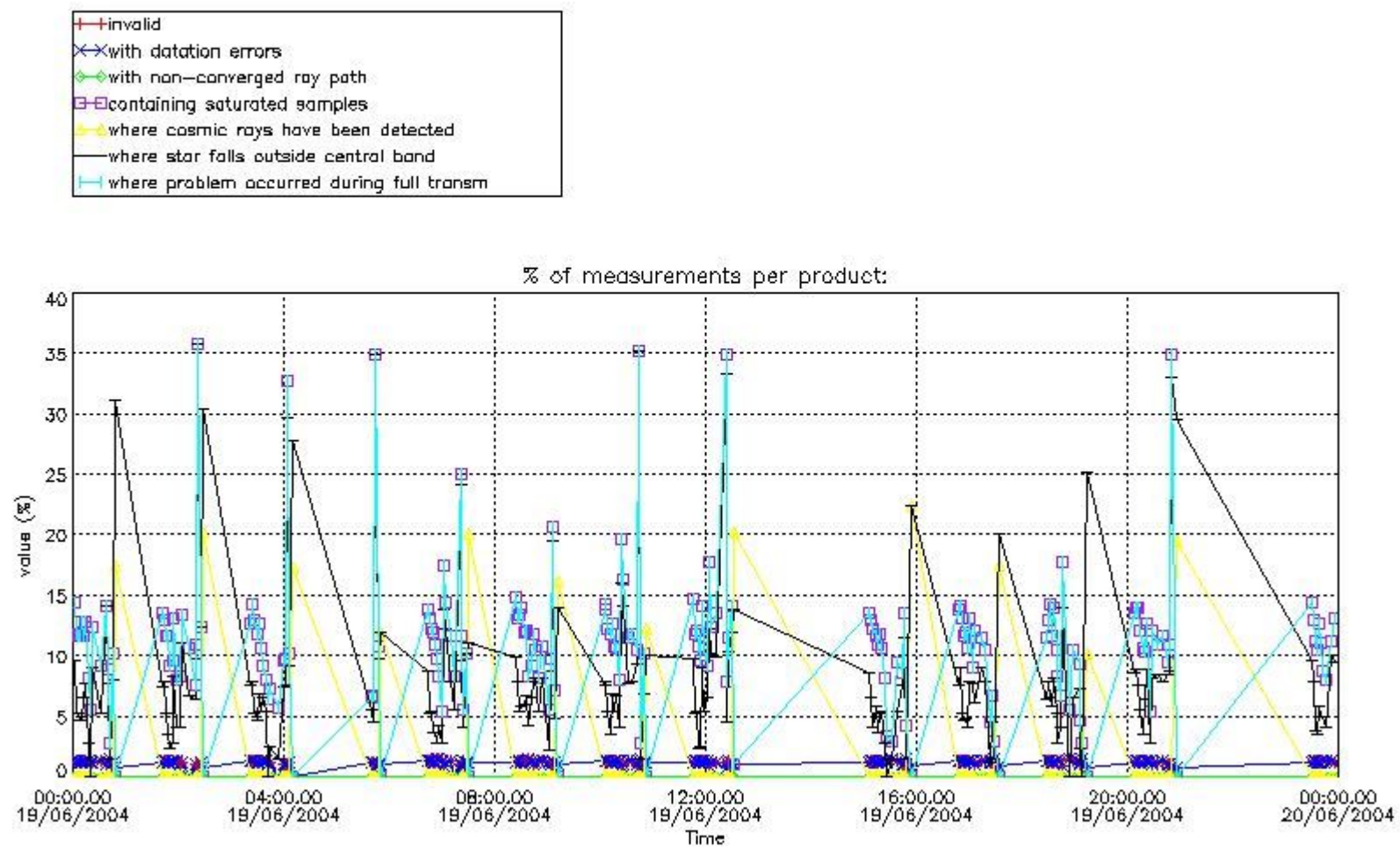
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

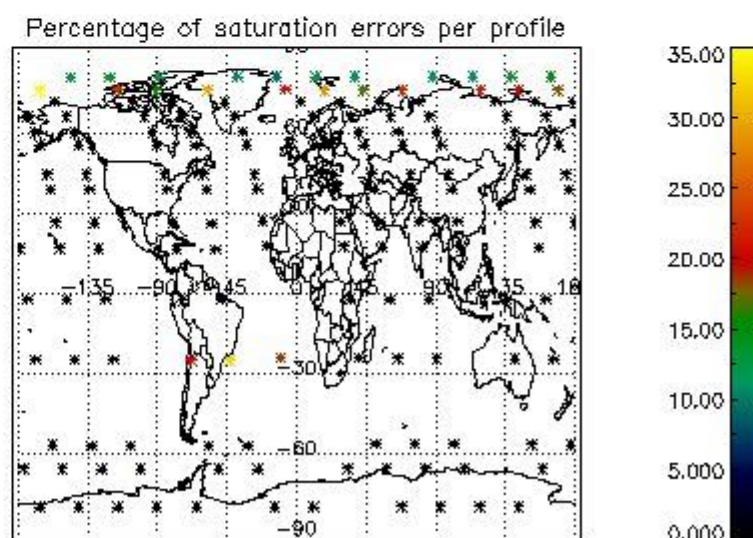
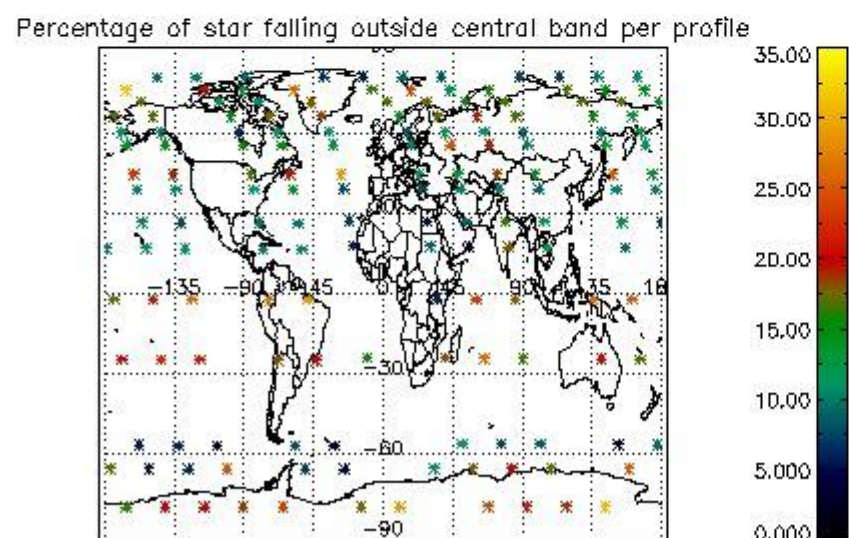
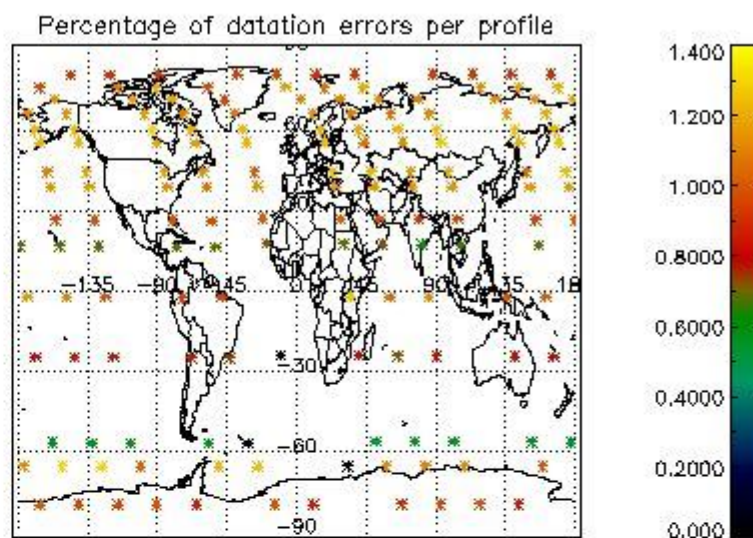
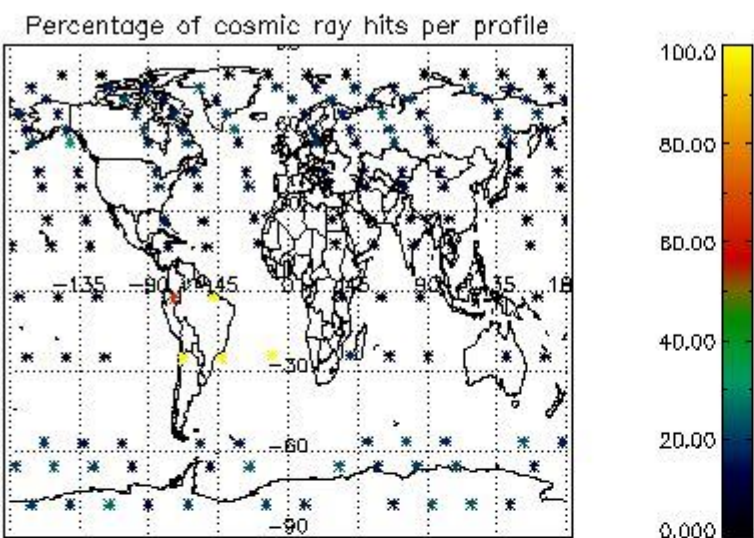


4.1.2 Plot level 1 quality information per product (time dependant): ENVI-SAT DESCENDING passes

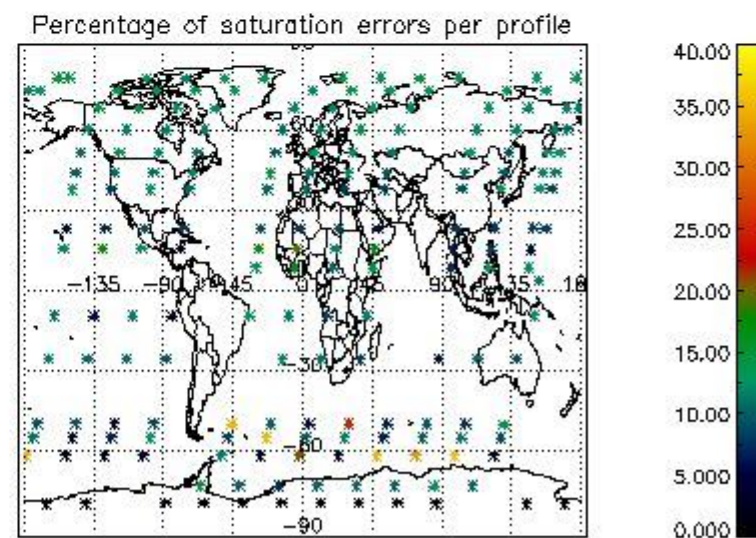
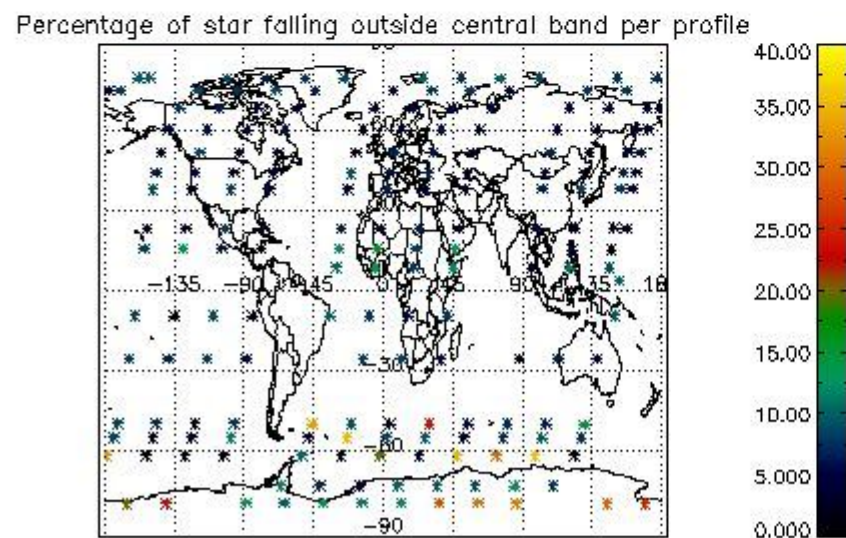
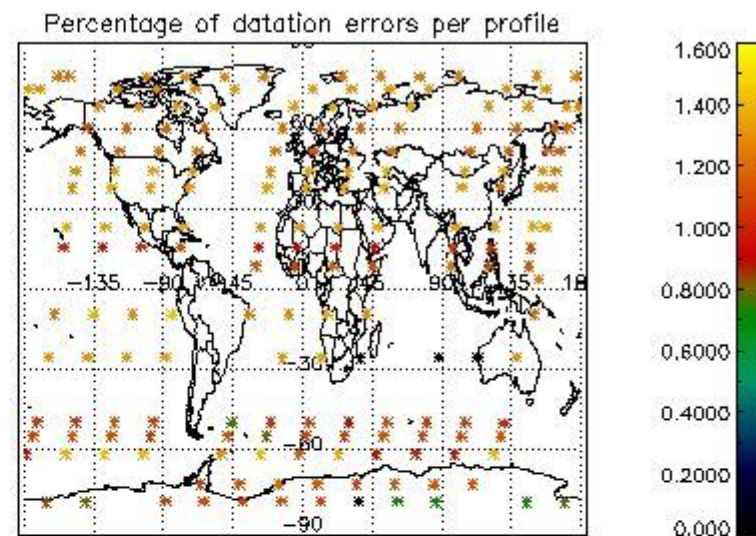
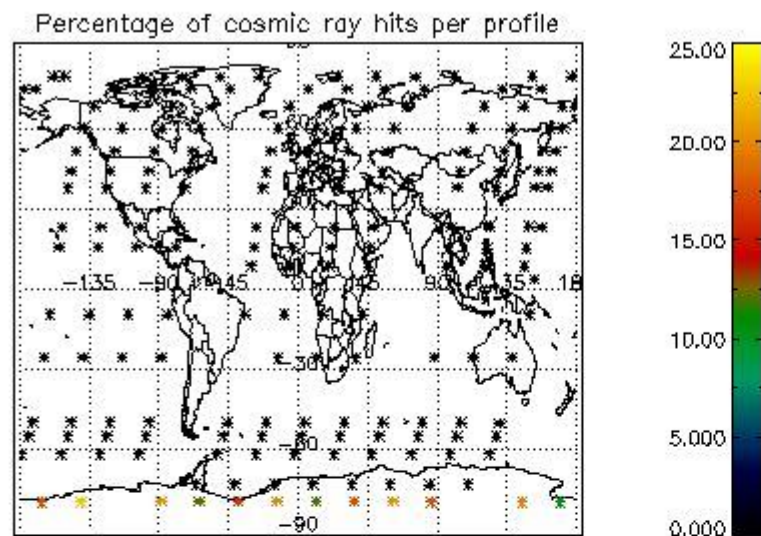


4.2 Plot quality information per product coming from level 1b processing (world map)

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

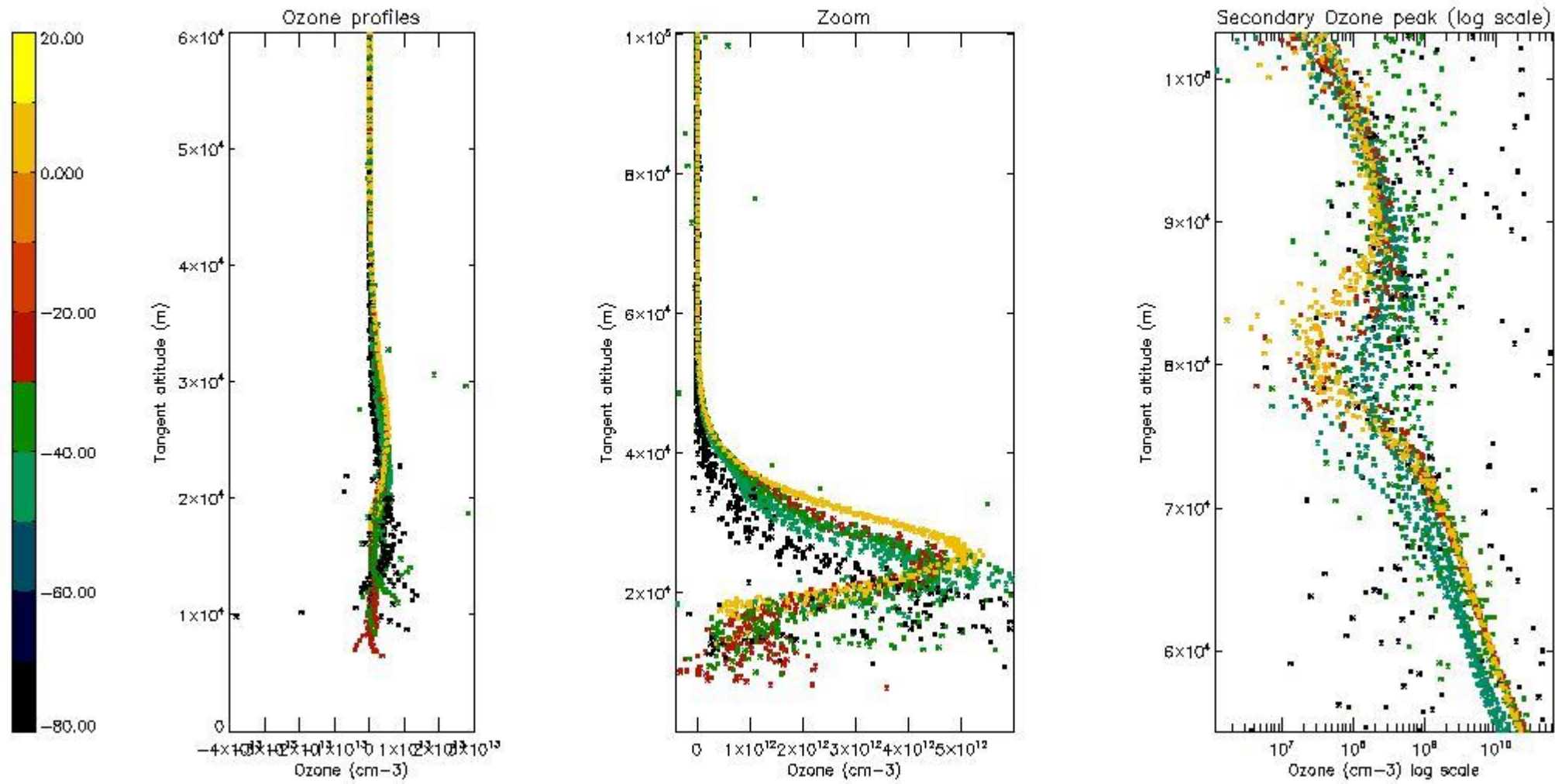
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	21
STD < 20	11

STD < 10	9
STD < 5	7

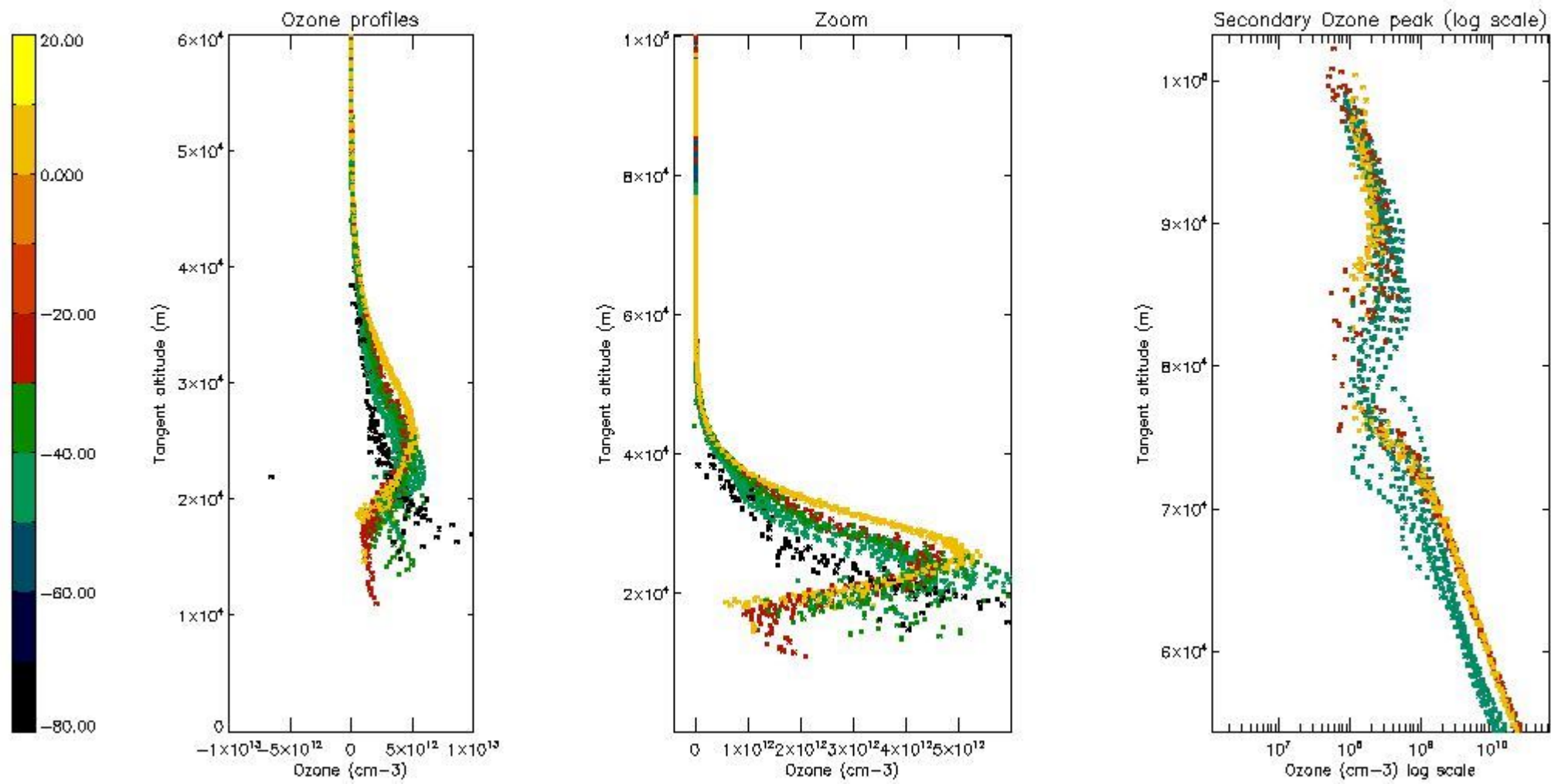
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



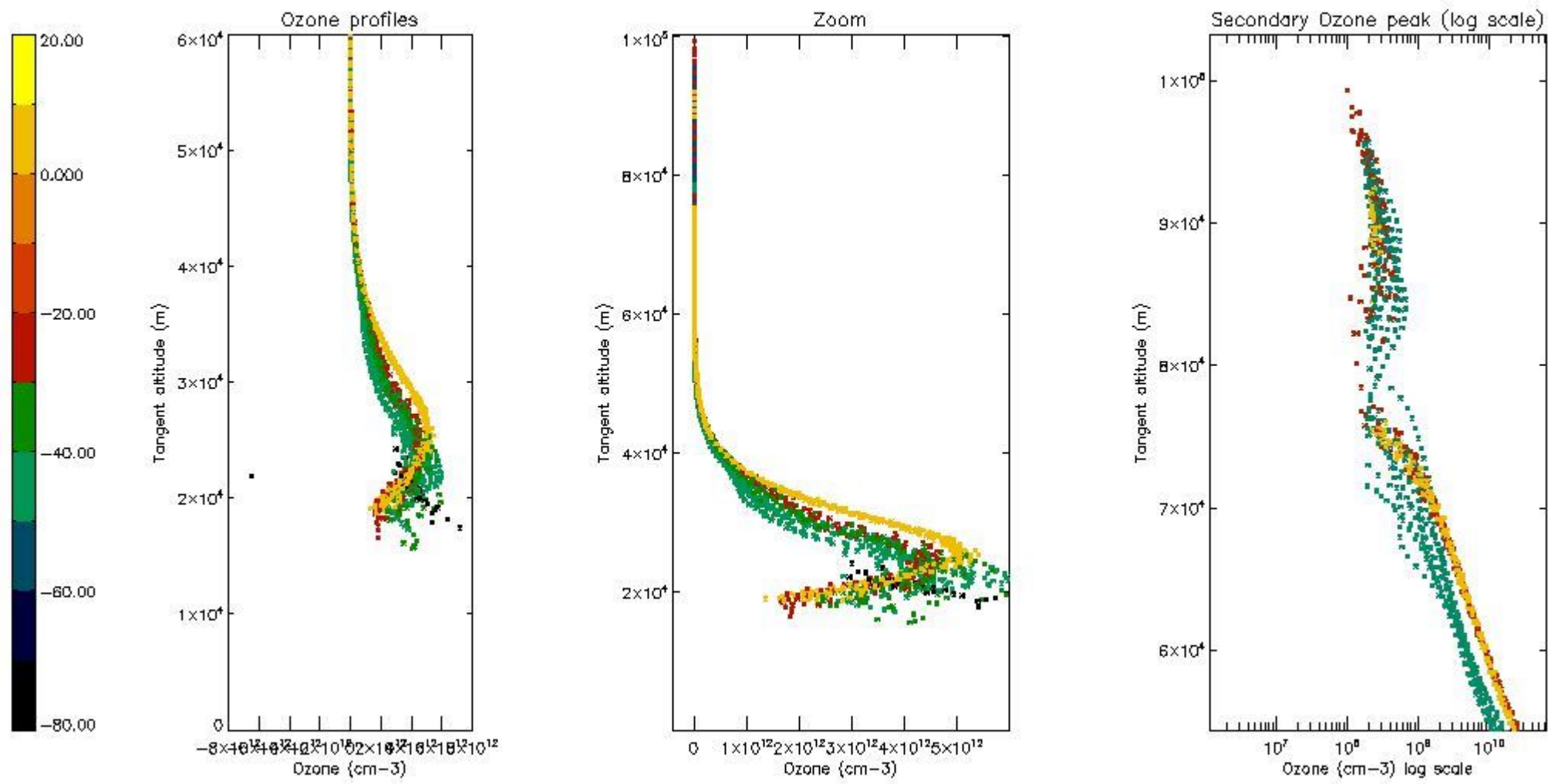
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



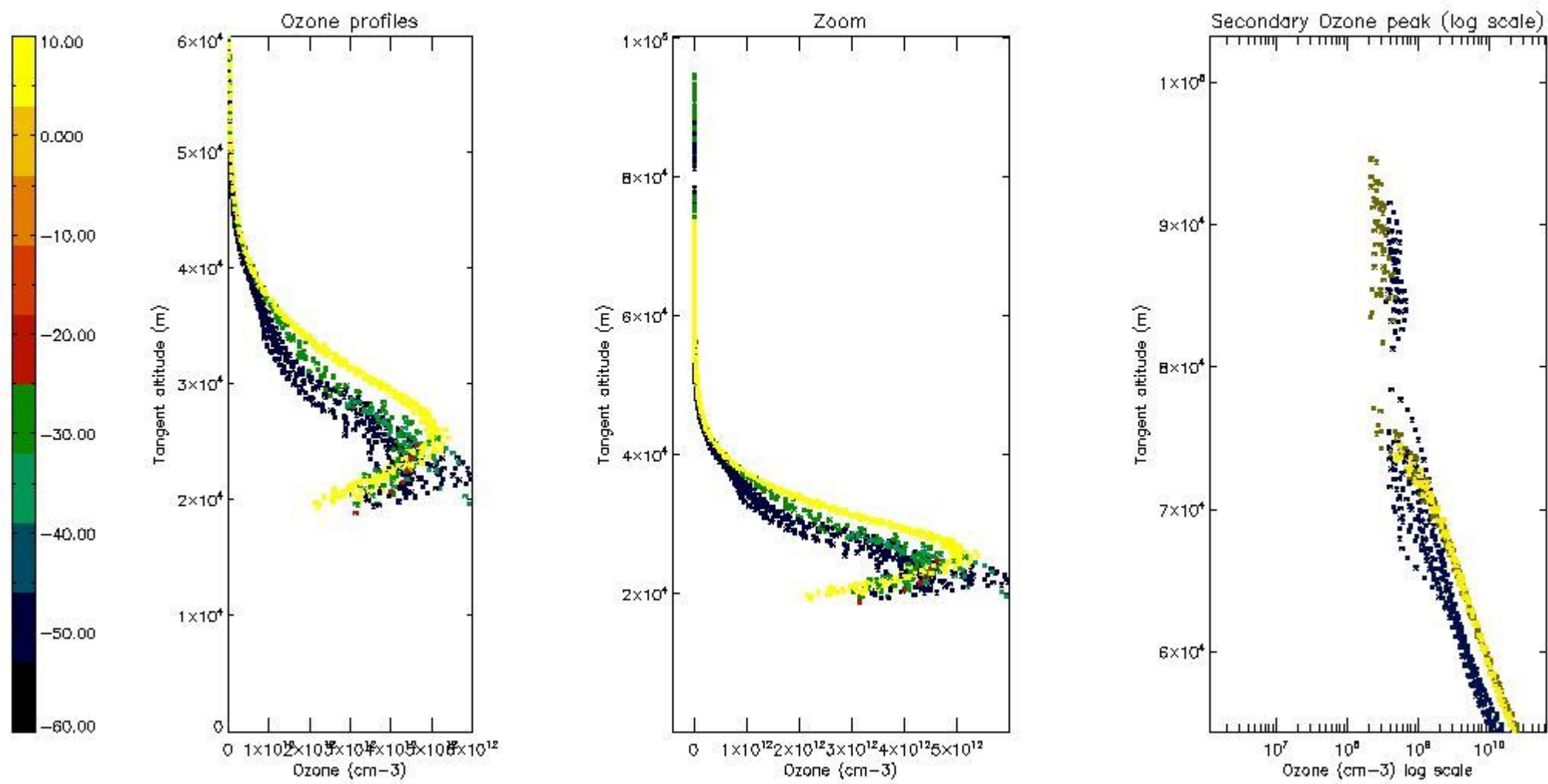
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



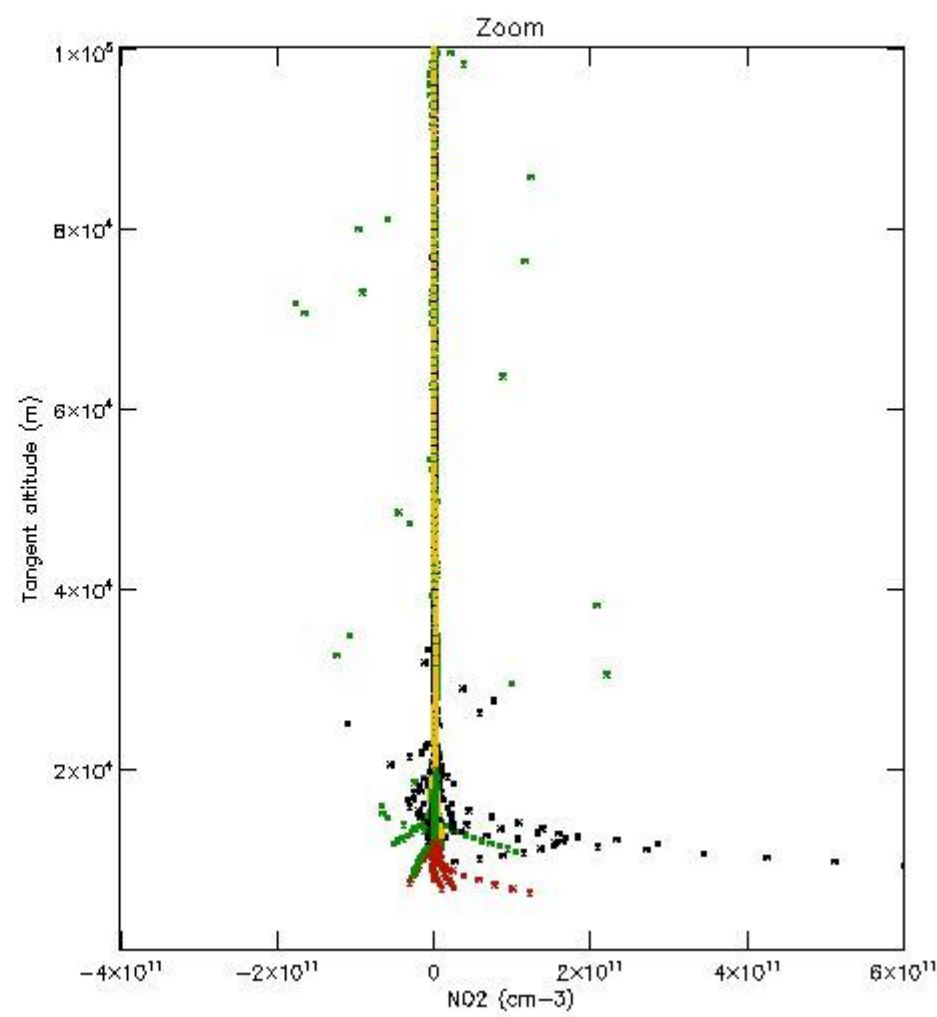
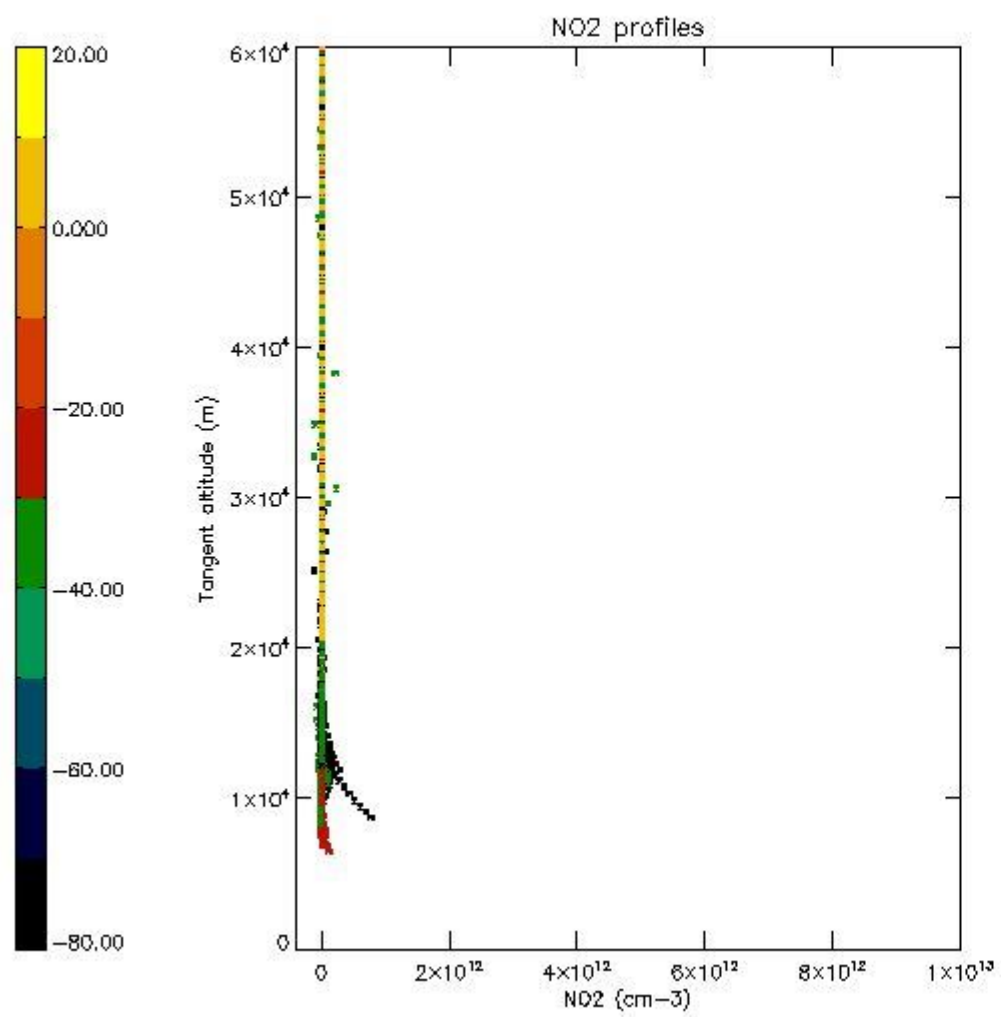
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



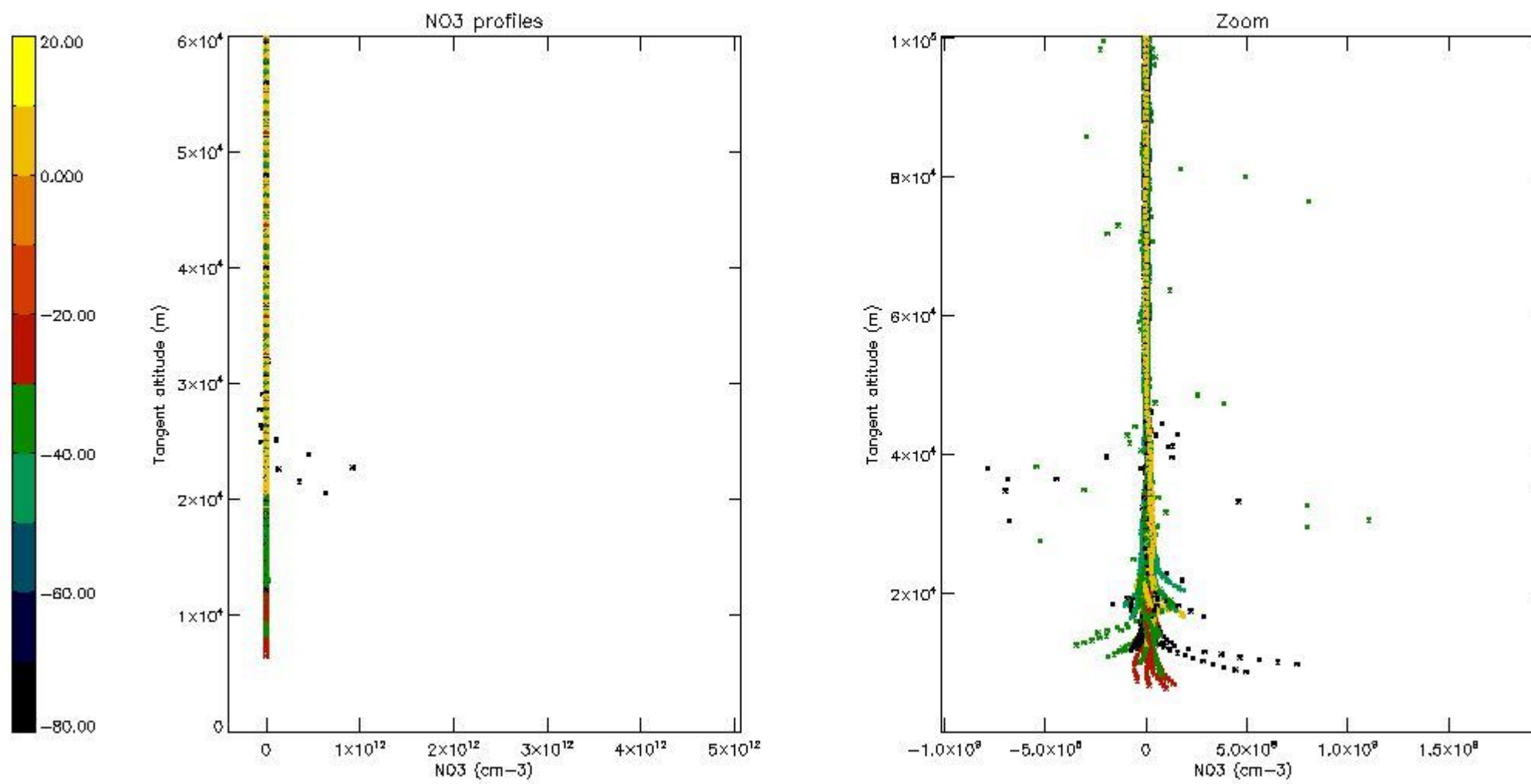
5.6 Plot NO₂ profiles for all STD (dark without errors)

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	19-JUN-2004 00:01:30
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	19-JUN-2004 00:01:30
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	19-JUN-2004 00:01:30

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	19APR2013 04:36:22
Data source version	GOMOS/6.01
Start time of products	19-06-2004 (19JUN2004 00:00:00)
Stop time of products	20-06-2004 (20JUN2004 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	353
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

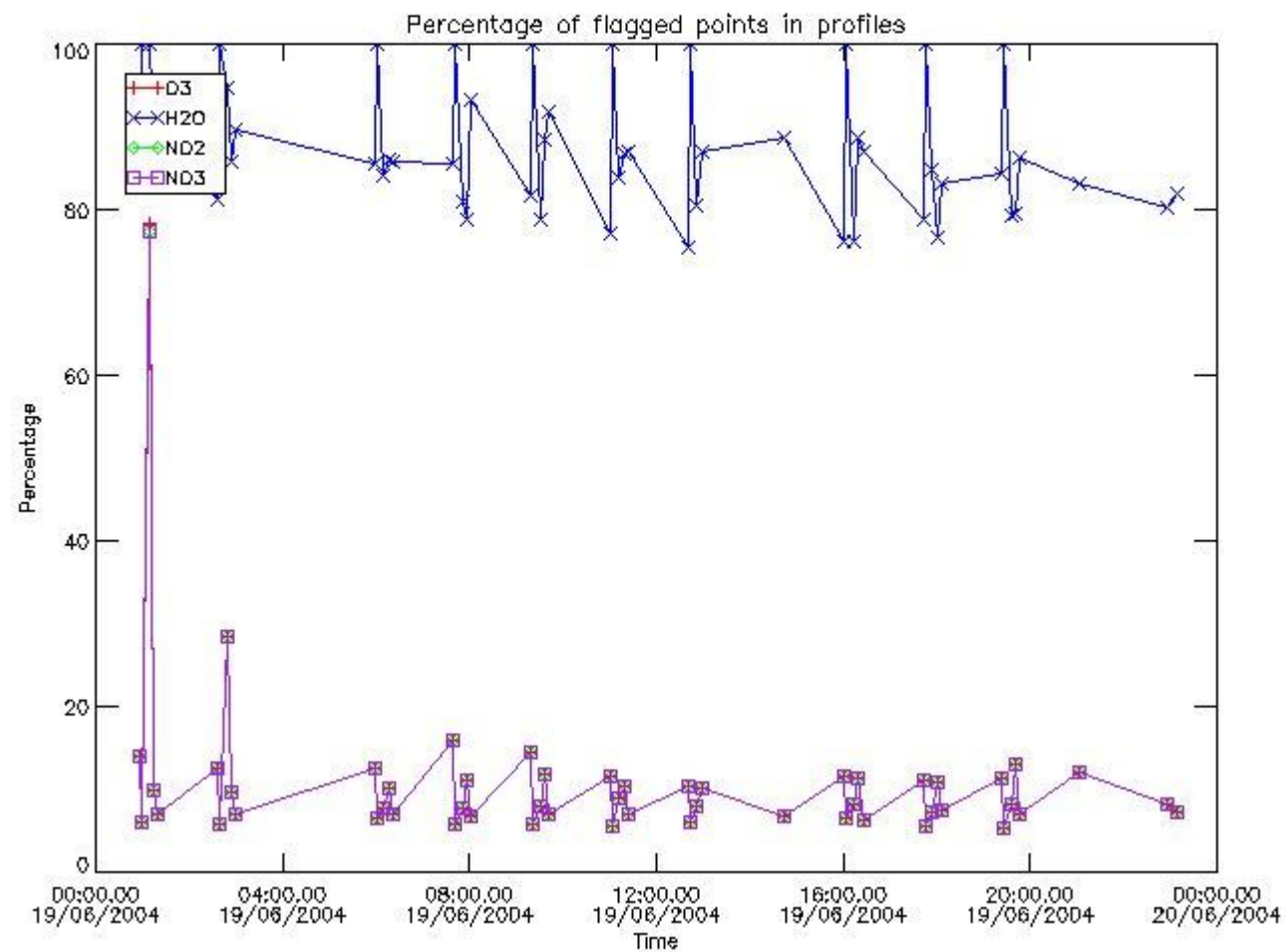
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20040619_000130_000000422027_00460_12037_4072.N1	19-JUN-2004 00:01:30	Bright	41.500	86	35Eta Oph	2.4300	10200.	83	12037	No
2	GOM_NL__2PRFIN20040619_000315_000000382027_00460_12037_4073.N1	19-JUN-2004 00:03:15	Bright	38.000	98	13Zet Oph	2.5710	30000.	76	12037	No
3	GOM_NL__2PRFIN20040619_000520_000000392027_00460_12037_4074.N1	19-JUN-2004 00:05:20	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	12037	No
4	GOM_NL__2PRFIN20040619_000748_000000432027_00460_12037_4075.N1	19-JUN-2004 00:07:48	Bright	43.000	126	60Bet Oph	2.7700	4250.0	86	12037	No
5	GOM_NL__2PRFIN20040619_001016_000000432027_00460_12037_4076.N1	19-JUN-2004 00:10:16	Bright	43.000	59	55Alp Oph	2.0800	8900.0	86	12037	No
6	GOM_NL__2PRFIN20040619_001225_000000392027_00460_12037_4077.N1	19-JUN-2004 00:12:25	Bright	38.500	127	27Bet Her	2.7810	4700.0	77	12037	No
7	GOM_NL__2PRFIN20040619_001406_000000392027_00460_12037_4078.N1	19-JUN-2004 00:14:06	Bright	39.000	67	5Alp CrB	2.2210	11000.	78	12037	No
8	GOM_NL__2PRFIN20040619_001814_000000372027_00460_12037_4079.N1	19-JUN-2004 00:18:14	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	12037	No
9	GOM_NL__2PRFIN20040619_002031_000000462027_00460_12037_4080.N1	19-JUN-2004 00:20:31	Bright	45.500	5	3Alp Lyr	0.033000	11000.	91	12037	No
10	GOM_NL__2PRFIN20040619_002224_000000452027_00460_12037_4081.N1	19-JUN-2004 00:22:24	Bright	44.500	69	33Gam Dra	2.2310	3800.0	89	12037	No
11	GOM_NL__2PRFIN20040619_003157_000000392027_00460_12037_4082.N1	19-JUN-2004 00:31:57	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	12037	No
12	GOM_NL__2PRFIN20040619_003852_000000502027_00460_12037_4083.N1	19-JUN-2004 00:38:52	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	12037	No
13	GOM_NL__2PRFIN20040619_004020_000000452027_00460_12037_4084.N1	19-JUN-2004 00:40:20	Bright	45.000	68	18Alp Cas	2.2250	4500.0	90	12037	No
14	GOM_NL__2PRFIN20040619_004216_000000362027_00460_12037_4085.N1	19-JUN-2004 00:42:16	Bright	35.500	160	23Gam Per	2.9300	4700.0	71	12037	No
15	GOM_NL__2PRFIN20040619_004541_000000442027_00460_12037_4086.N1	19-JUN-2004 00:45:41	Bright	44.000	73	57Gam1And	2.2600	13100.	88	12037	No
16	GOM_NL__2PRFIN20040619_004806_000000692027_00460_12037_4087.N1	19-JUN-2004 00:48:06	Twilight	69.000	53	43Bet And	2.0480	3300.0	138	12037	No
17	GOM_NL__2PRFIN20040619_005143_000000592027_00460_12037_4088.N1	19-JUN-2004 00:51:43	Twilight	59.000	50	13Alp Ari	2.0070	4250.0	118	12037	No
18	GOM_NL__2PRFIN20040619_005630_000000402027_00460_12037_4089.N1	19-JUN-2004 00:56:30	Dark	40.000	94	92Alp Cet	2.5260	3100.0	80	12037	No
19	GOM_NL__2PRFIN20040619_005902_000000852027_00460_12037_4090.N1	19-JUN-2004 00:59:02	Dark	84.500	140	88Gam Peg	2.8340	26000.	169	12037	No
20	GOM_NL__2PRFIN20040619_010807_000000672027_00460_12037_4091.N1	19-JUN-2004 01:08:07	Dark	67.000	52	16Bet Cet	2.0370	4500.0	134	12037	No
21	GOM_NL__2PRFIN20040619_011429_000000522027_00460_12037_4092.N1	19-JUN-2004 01:14:29	Dark	52.000	9	Alp Eri	0.45300	24000.	104	12037	No
22	GOM_NL__2PRFIN20040619_011946_000000732027_00461_12038_4083.N1	19-JUN-2004 01:19:46	Dark	73.000	18	24Alp PsA	1.1660	9700.0	146	12038	No
23	GOM_NL__2PRFIN20040619_012232_000000522027_00461_12038_4084.N1	19-JUN-2004 01:22:32	Straylight	51.500	31	Alp Gru	1.7340	15200.	103	12038	No
24	GOM_NL__2PRFIN20040619_012602_000000472027_00461_12038_4085.N1	19-JUN-2004 01:26:02	Straylight	47.000	45	Alp Pav	1.9400	26000.	94	12038	No
25	GOM_NL__2PRFIN20040619_012740_000000442027_00461_12038_4086.N1	19-JUN-2004 01:27:40	Straylight	44.000	43	Alp TrA	1.9100	4250.0	88	12038	No
26	GOM_NL__2PRFIN20040619_013048_000000432027_00461_12038_4087.N1	19-JUN-2004 01:30:48	Straylight	43.000	141	Bet Ara	2.8400	4600.0	86	12038	No
27	GOM_NL__2PRFIN20040619_013211_000000412027_00461_12038_4088.N1	19-JUN-2004 01:32:11	Straylight	41.000	147	Alp Ara	2.8770	26000.	82	12038	No
28	GOM_NL__2PRFIN20040619_013357_000000462027_00461_12038_4089.N1	19-JUN-2004 01:33:57	Twilight	45.500	40	The Sco	1.8590	7100.0	91	12038	No
29	GOM_NL__2PRFIN20040619_013539_000000422027_00461_12038_4090.N1	19-JUN-2004 01:35:39	Twilight	42.000	25	35Lam Sco	1.6200	28000.	84	12038	No
30	GOM_NL__2PRFIN20040619_013703_000000422027_00461_12038_4091.N1	19-JUN-2004 01:37:03	Bright	41.500	75	26Eps Sco	2.2910	4250.0	83	12038	No
31	GOM_NL__2PRFIN20040619_013912_000000562027_00461_12038_4092.N1	19-JUN-2004 01:39:12	Bright	55.500	155	41Pi Sgr	2.9000	6600.0	111	12038	No
32	GOM_NL__2PRFIN20040619_014207_000000412027_00461_12038_4093.N1	19-JUN-2004 01:42:07	Bright	40.500	86	35Eta Oph	2.4300	10200.	81	12038	No
33	GOM_NL__2PRFIN20040619_014351_000000392027_00461_12038_4094.N1	19-JUN-2004 01:43:51	Bright	38.500	98	13Zet Oph	2.5710	30000.	77	12038	No
34	GOM_NL__2PRFIN20040619_014556_000000392027_00461_12038_4095.N1	19-JUN-2004 01:45:56	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	12038	No
35	GOM_NL__2PRFIN20040619_014824_000000432027_00461_12038_4096.N1	19-JUN-2004 01:48:24	Bright	43.000	126	60Bet Oph	2.7700	4250.0	86	12038	No
36	GOM_NL__2PRFIN20040619_015049_000000442027_00461_12038_4097.N1	19-JUN-2004 01:50:49	Bright	44.000	59	55Alp Oph	2.0800	8900.0	88	12038	No
37	GOM_NL__2PRFIN20040619_015302_000000372027_00461_12038_4098.N1	19-JUN-2004 01:53:02	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	12038	No
38	GOM_NL__2PRFIN20040619_015440_000000422027_00461_12038_4099.N1	19-JUN-2004 01:54:40	Bright	42.000	67	5Alp CrB	2.2210	11000.	84	12038	No
39	GOM_NL__2PRFIN20040619_015850_000000382027_00461_12038_4100.N1	19-JUN-2004 01:58:50	Bright	37.500	180	27Gam Boo	3.0400	8000.0	75	12038	No
40	GOM_NL__2PRFIN20040619_020106_000000492027_00461_12038_4101.N1	19-JUN-2004 02:01:06	Bright	48.500	5	3Alp Lyr	0.033000	11000.	97	12038	No
41	GOM_NL__2PRFIN20040619_020300_000000452027_00461_12038_4102.N1	19-JUN-2004 02:03:00	Bright	45.000	69	33Gam Dra	2.2310	3800.0	90	12038	No
42	GOM_NL__2PRFIN20040619_021233_000000382027_00461_12038_4103.N1	19-JUN-2004 02:12:33	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	12038	No

338	GOM_NL__2PRFIN20040619_231838_000000412027_00474_12051_2083.N1	19-JUN-2004 23:18:38	Straylight	41.000	141	Bet Ara	2.8400	4600.0	82	12051	No
339	GOM_NL__2PRFIN20040619_232002_000000412027_00474_12051_2084.N1	19-JUN-2004 23:20:02	Straylight	41.000	147	Alp Ara	2.8770	26000.	82	12051	No
340	GOM_NL__2PRFIN20040619_232147_000000472027_00474_12051_2085.N1	19-JUN-2004 23:21:47	Twilight_stray	46.500	40	The Sco	1.8590	7100.0	93	12051	No
341	GOM_NL__2PRFIN20040619_232320_000000532027_00474_12051_2086.N1	19-JUN-2004 23:23:20	Twilight_stray	52.500	38	20Eps Sgr	1.8360	11000.	105	12051	No
342	GOM_NL__2PRFIN20040619_232450_000000522027_00474_12051_2087.N1	19-JUN-2004 23:24:50	Bright	52.000	75	26Eps Sco	2.2910	4250.0	104	12051	No
343	GOM_NL__2PRFIN20040619_232702_000000542027_00474_12051_2088.N1	19-JUN-2004 23:27:02	Bright	53.500	155	41Pi Sgr	2.9000	6600.0	107	12051	No
344	GOM_NL__2PRFIN20040619_232955_000000422027_00474_12051_2089.N1	19-JUN-2004 23:29:55	Bright	41.500	86	35Eta Oph	2.4300	10200.	83	12051	No
345	GOM_NL__2PRFIN20040619_233139_000000392027_00474_12051_2090.N1	19-JUN-2004 23:31:39	Bright	38.500	98	13Zet Oph	2.5710	30000.	77	12051	No
346	GOM_NL__2PRFIN20040619_233343_000000402027_00474_12051_2091.N1	19-JUN-2004 23:33:43	Bright	40.000	120	1Del Oph	2.7340	3200.0	80	12051	No
347	GOM_NL__2PRFIN20040619_233608_000000432027_00474_12051_2092.N1	19-JUN-2004 23:36:08	Bright	43.000	126	60Bet Oph	2.7700	4250.0	86	12051	No
348	GOM_NL__2PRFIN20040619_233835_000000442027_00474_12051_2093.N1	19-JUN-2004 23:38:35	Bright	43.500	59	55Alp Oph	2.0800	8900.0	87	12051	No
349	GOM_NL__2PRFIN20040619_234045_000000412027_00474_12051_2094.N1	19-JUN-2004 23:40:45	Bright	40.500	127	27Bet Her	2.7810	4700.0	81	12051	No
350	GOM_NL__2PRFIN20040619_234229_000000402027_00474_12051_2095.N1	19-JUN-2004 23:42:29	Bright	40.000	67	5Alp CrB	2.2210	11000.	80	12051	No
351	GOM_NL__2PRFIN20040619_234641_000000382027_00474_12051_2096.N1	19-JUN-2004 23:46:41	Bright	37.500	180	27Gam Boo	3.0400	8000.0	75	12051	No
352	GOM_NL__2PRFIN20040619_235209_000000402027_00474_12051_2097.N1	19-JUN-2004 23:52:09	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	12051	No
353	GOM_NL__2PRFIN20040619_235546_000000422027_00474_12051_2098.N1	19-JUN-2004 23:55:46	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	12051	No

3. Quality information per product

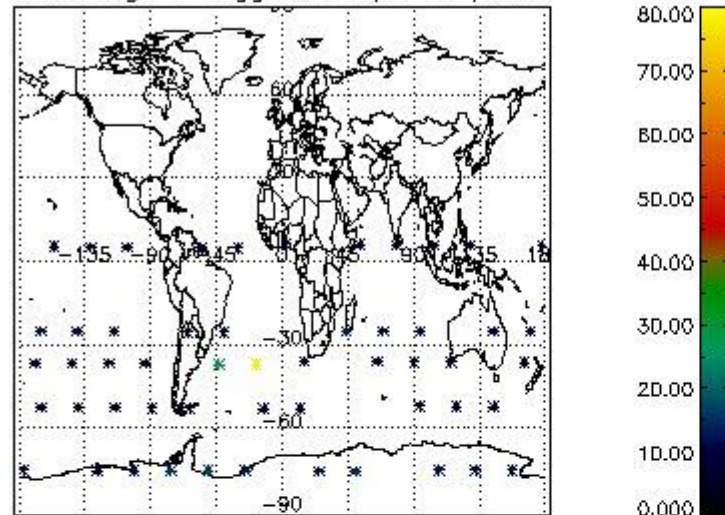
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

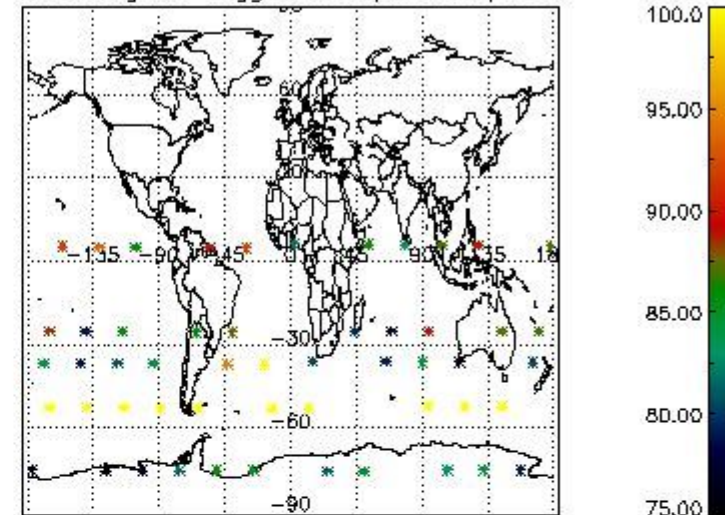


3.2 Plot quality information per product (world map)

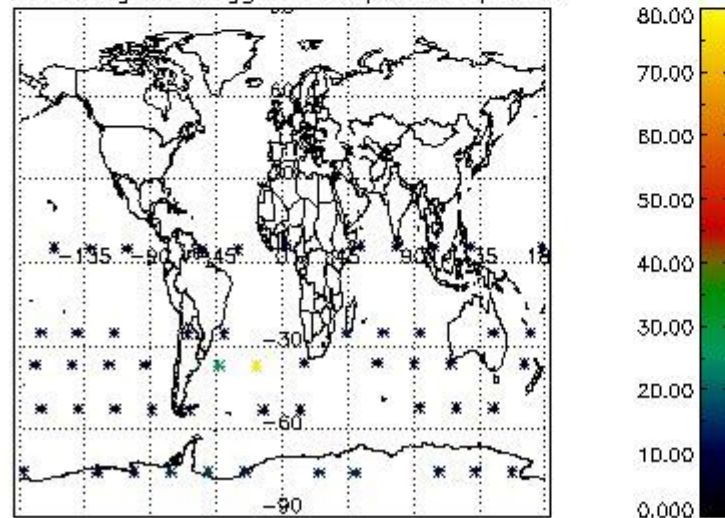
Percentage of flagged data per O3 profile



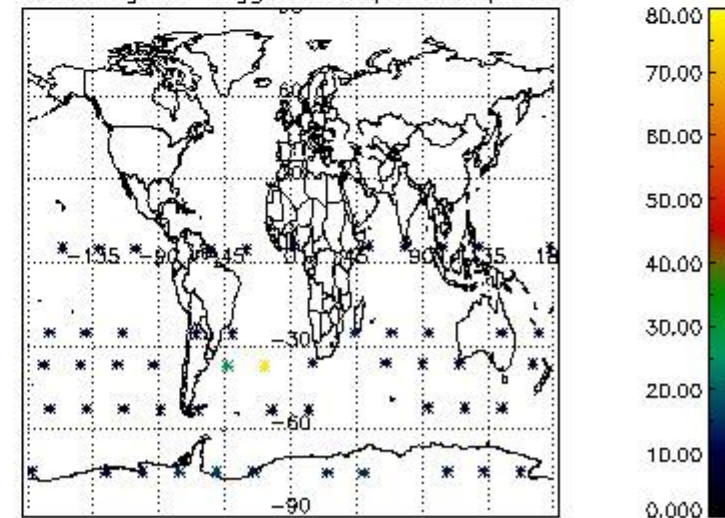
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

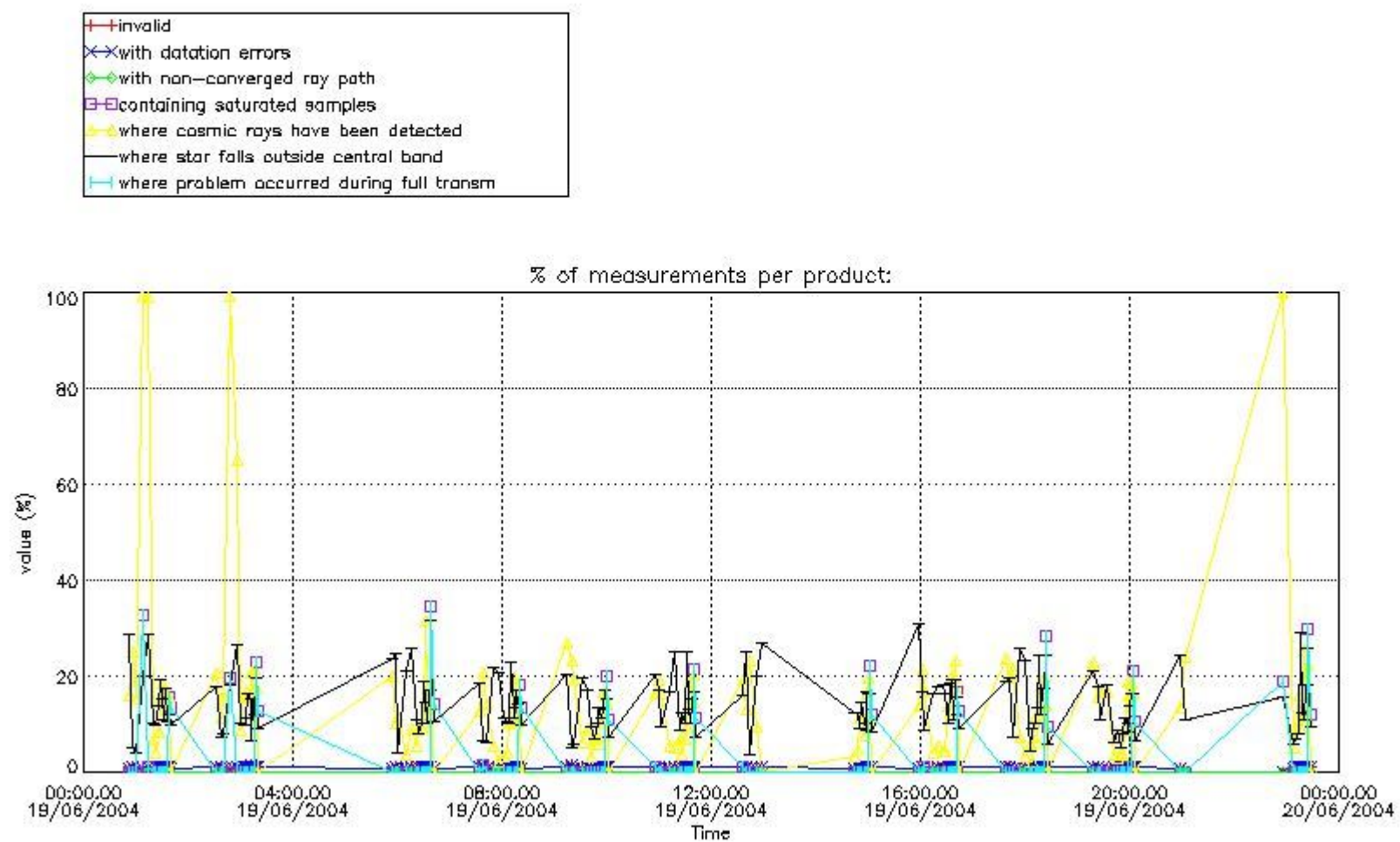


4. Level 1 quality information per product

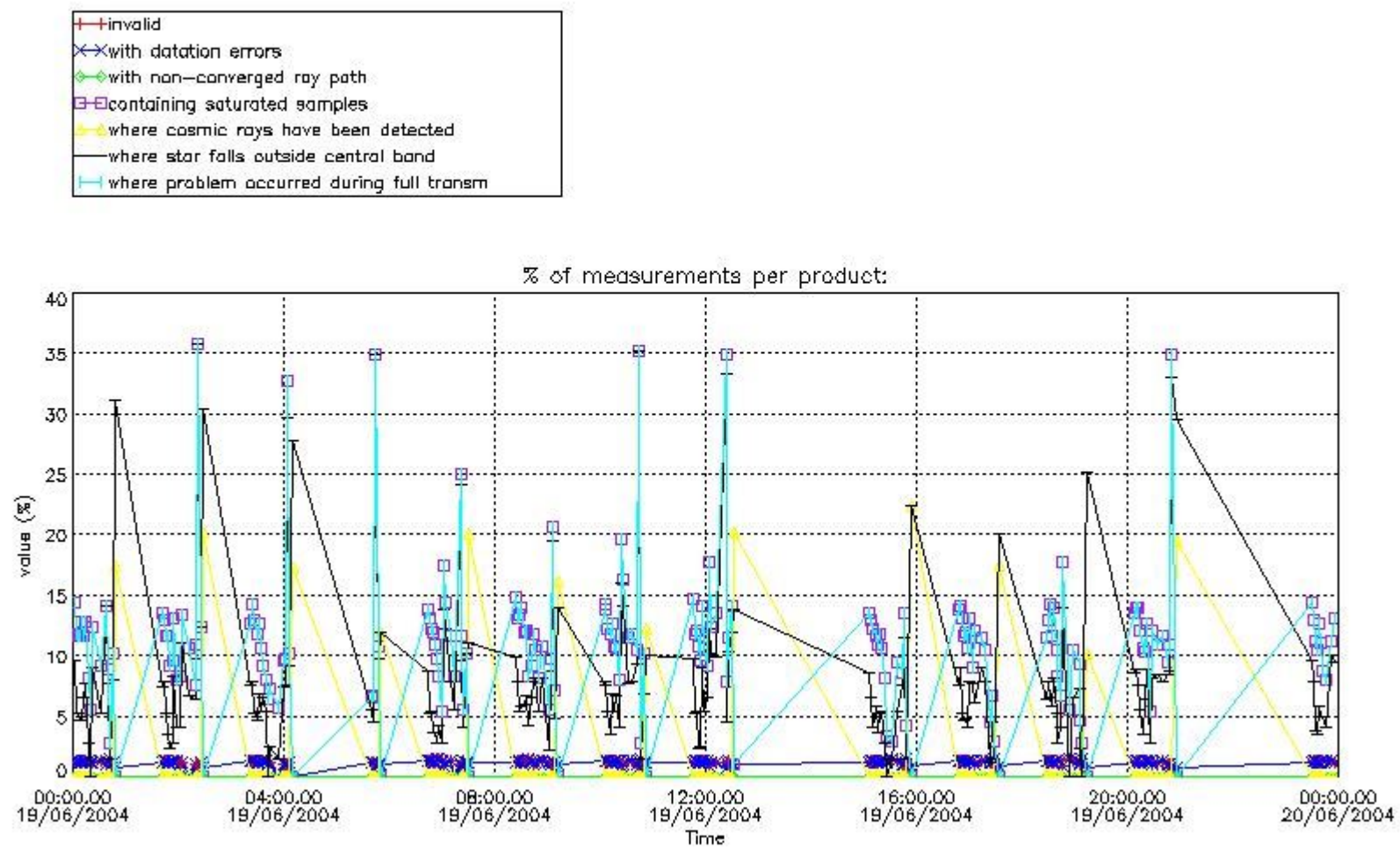
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

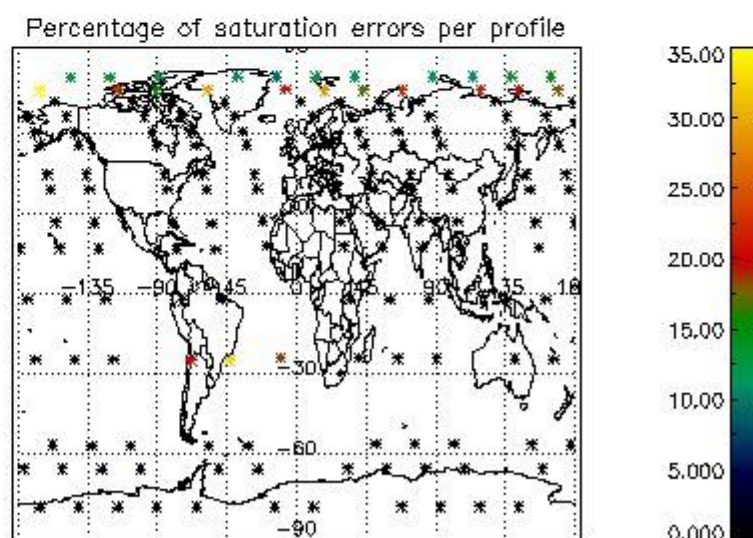
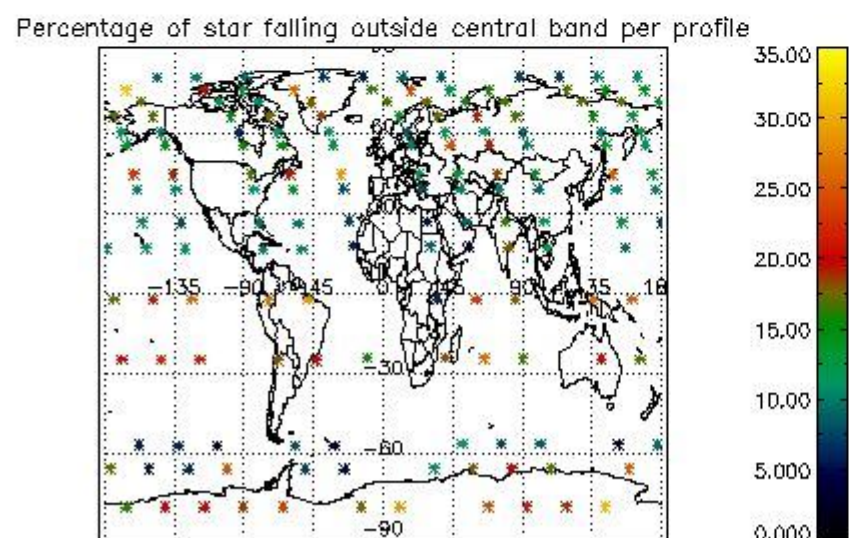
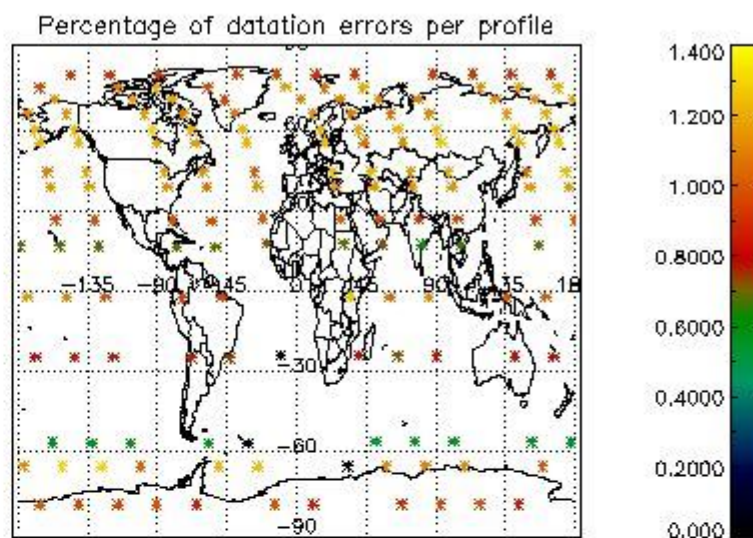
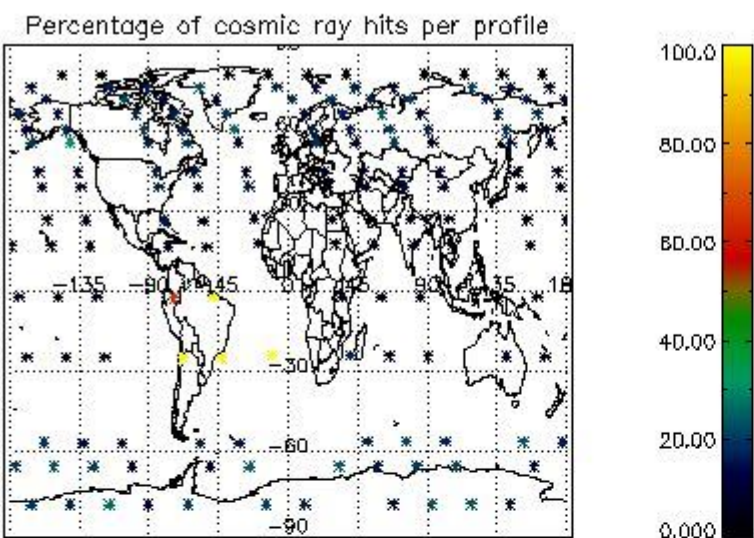


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

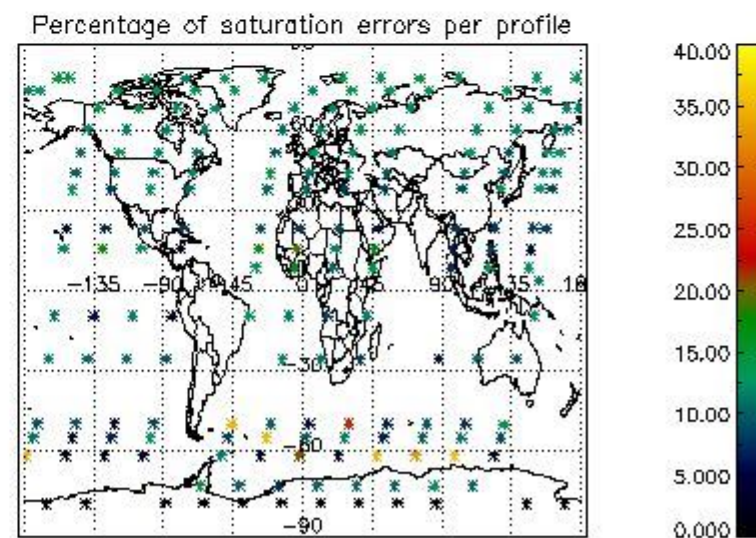
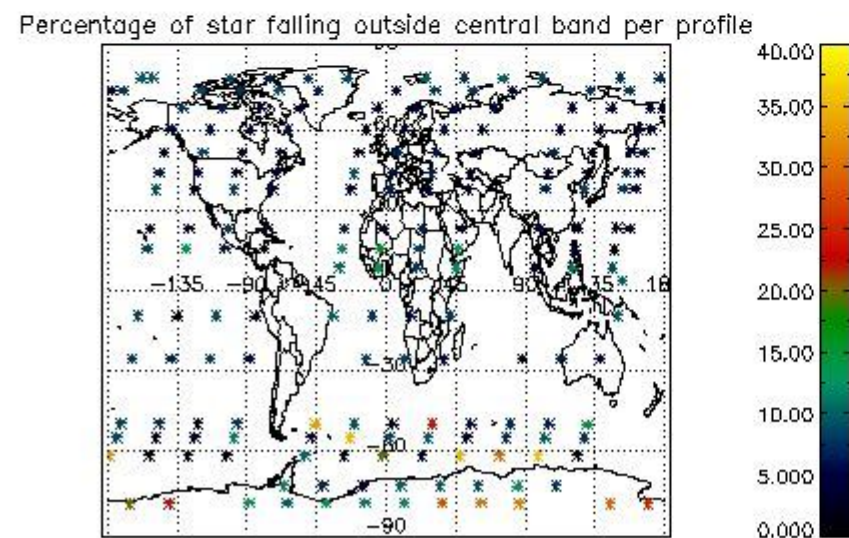
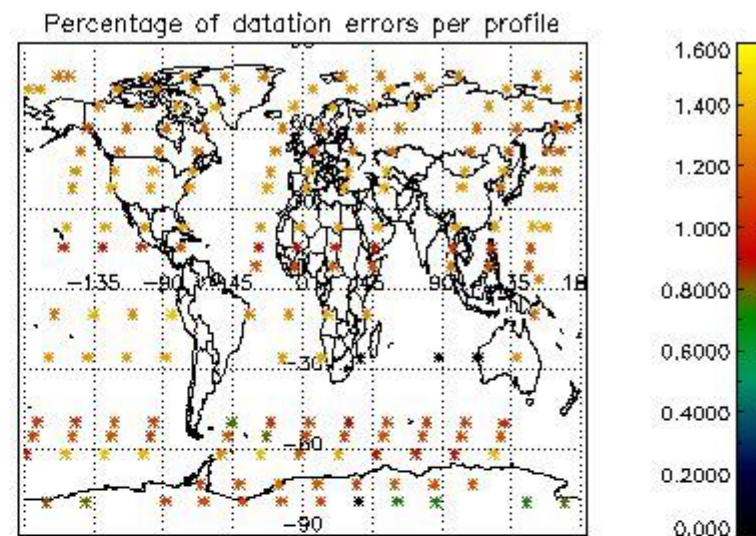
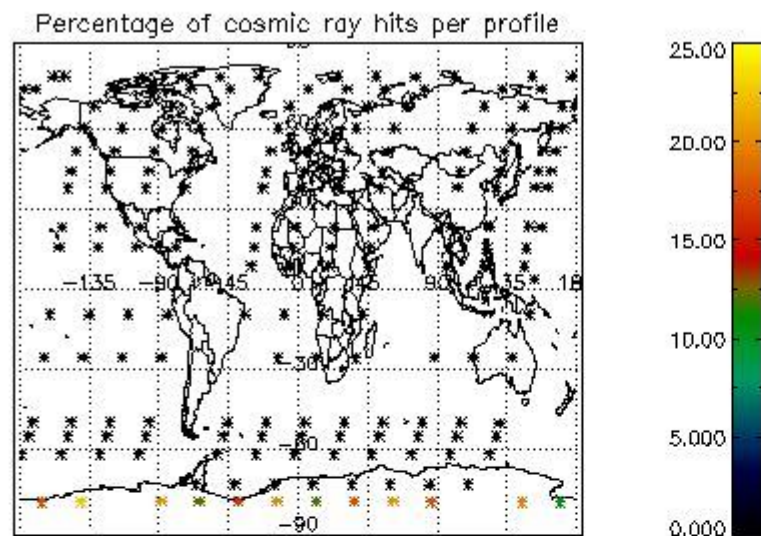


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

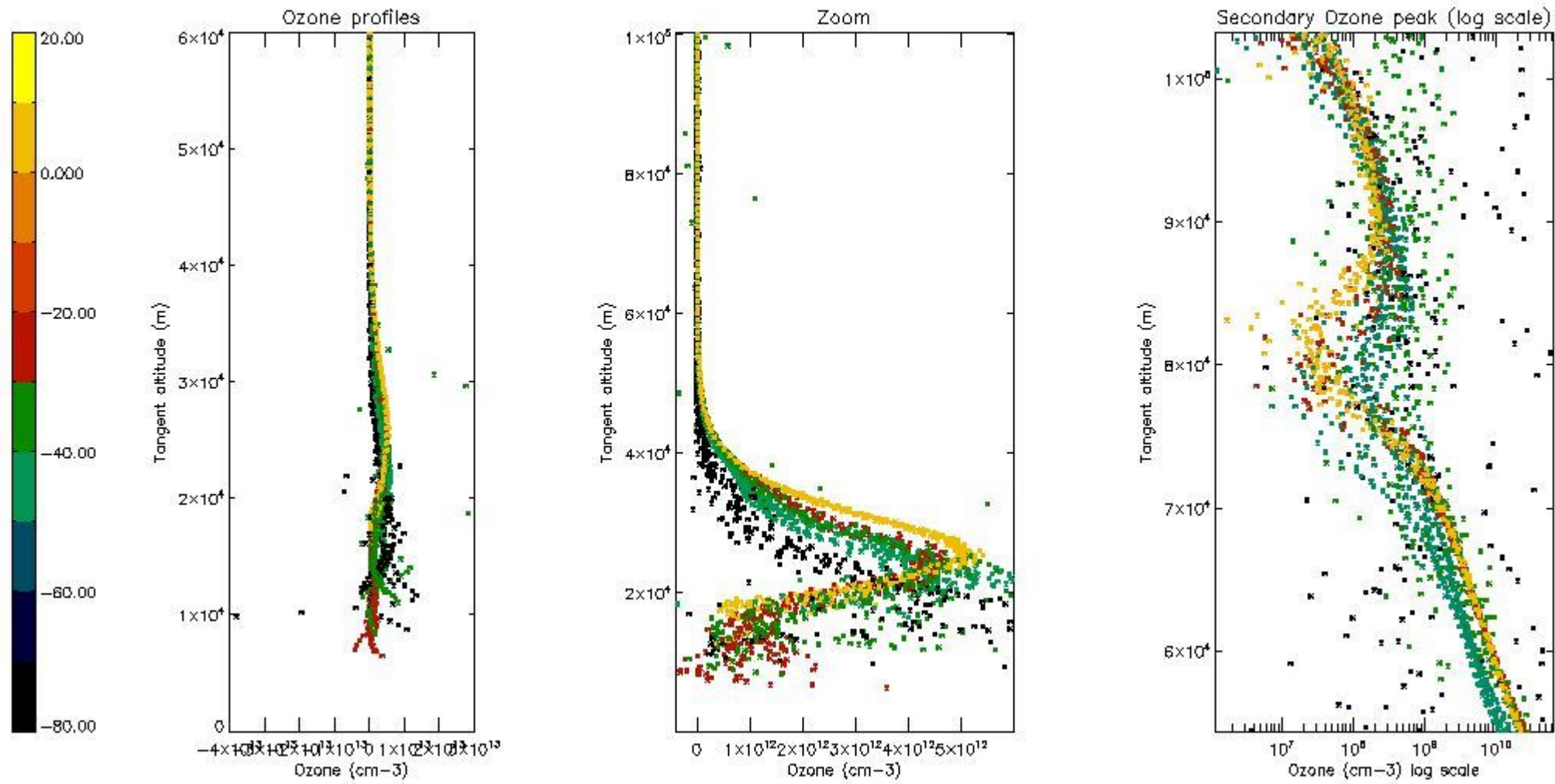
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	21
STD < 20	11

STD < 10	9
STD < 5	7

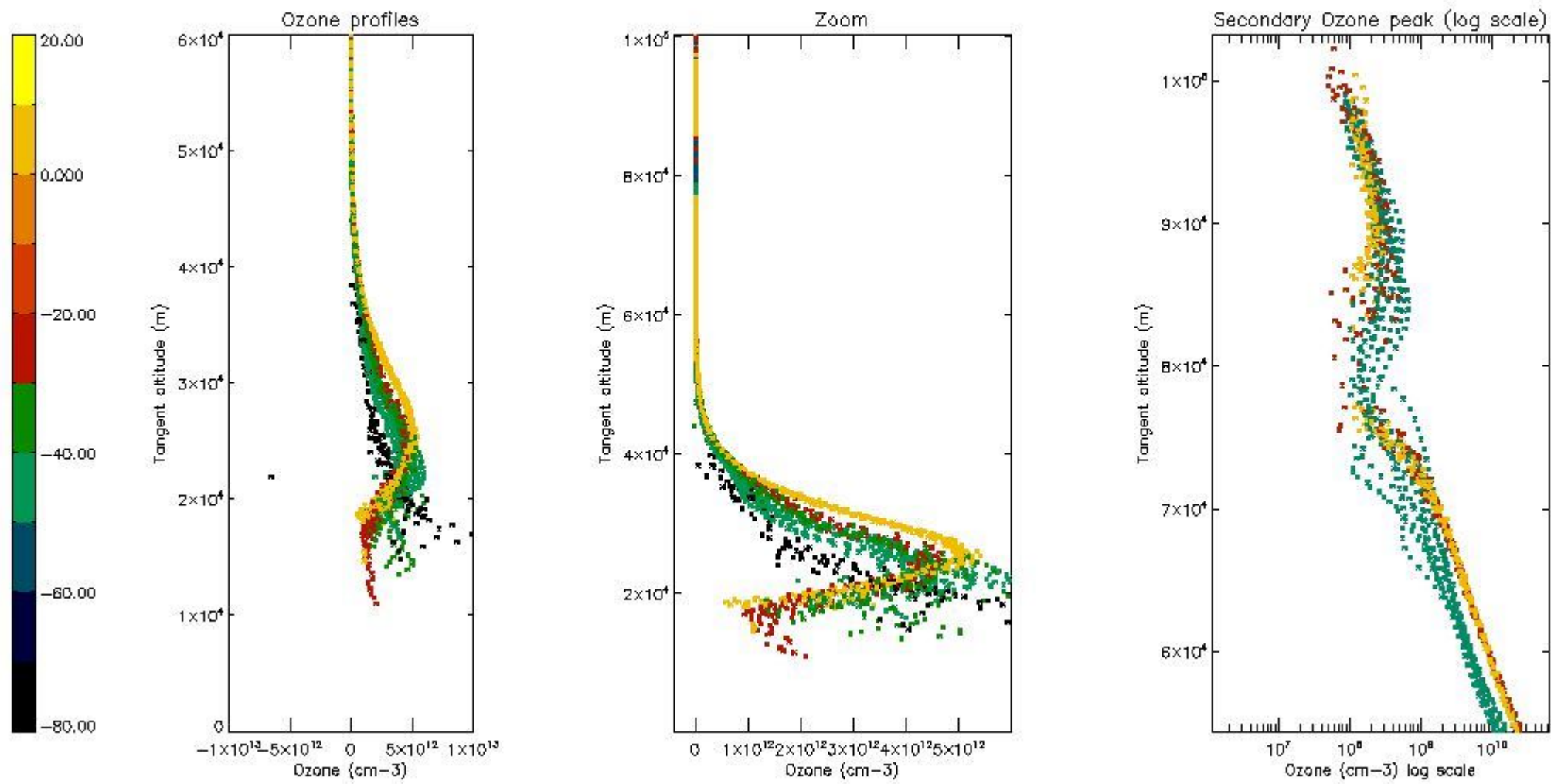
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



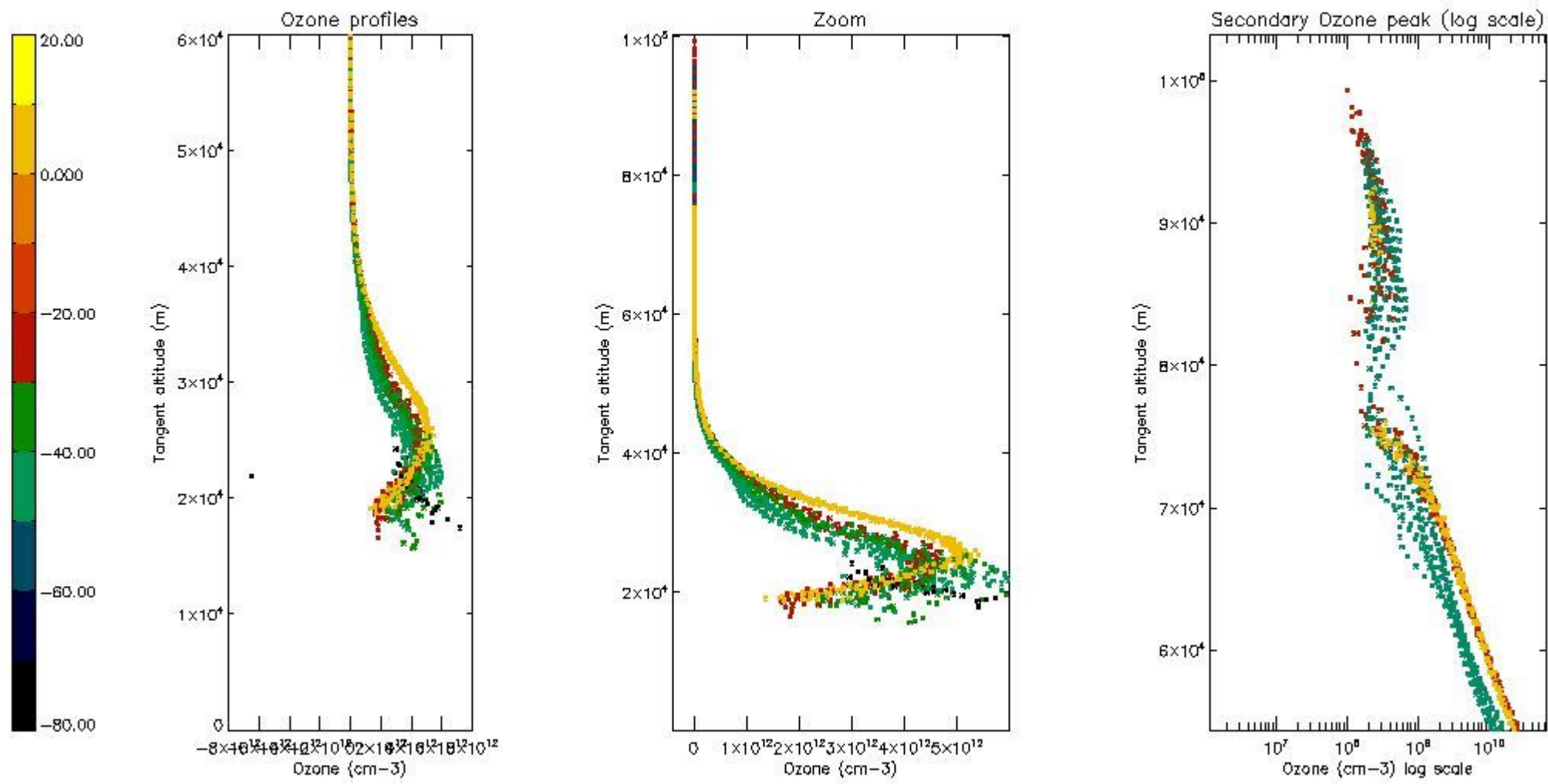
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



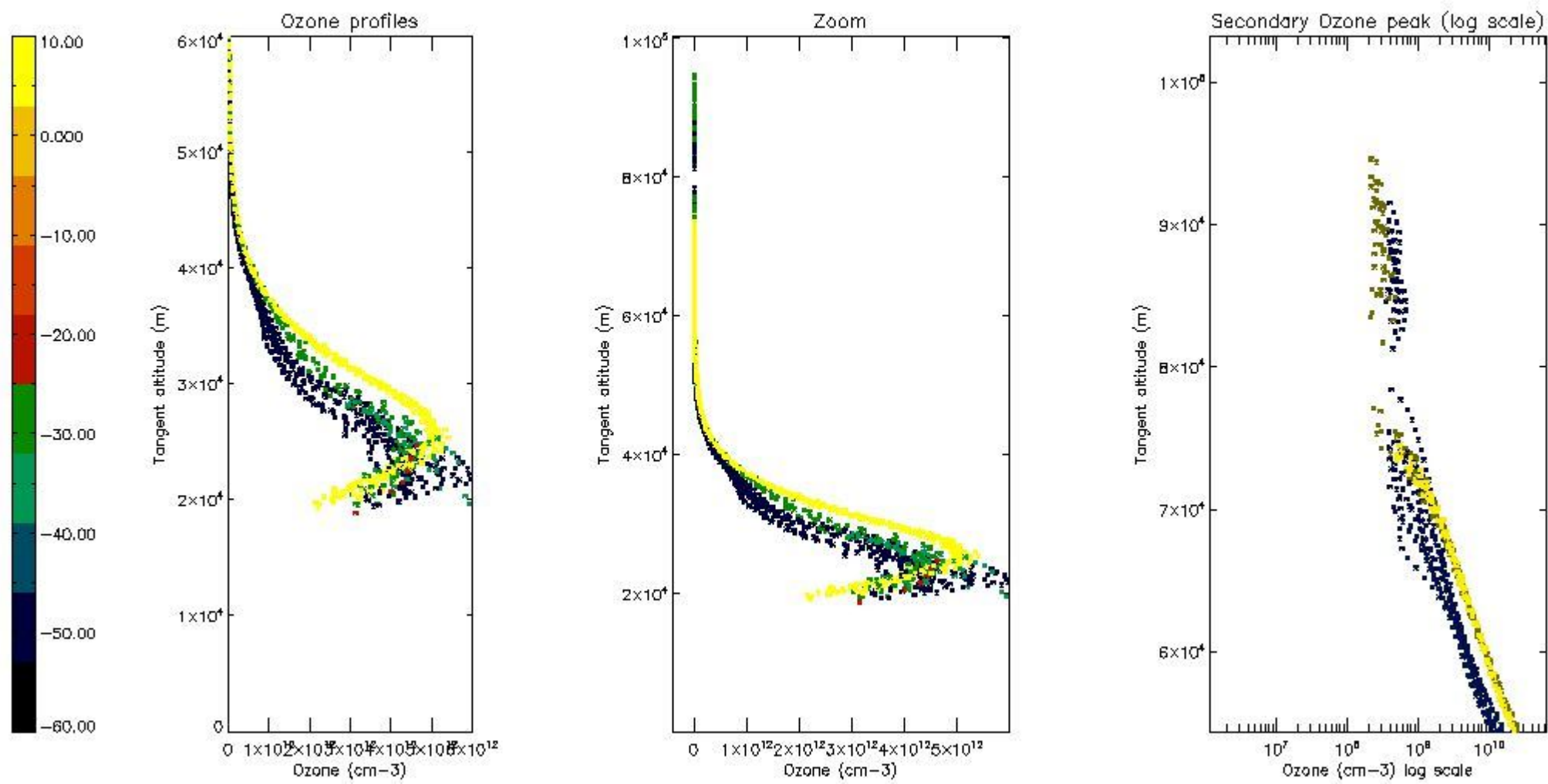
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



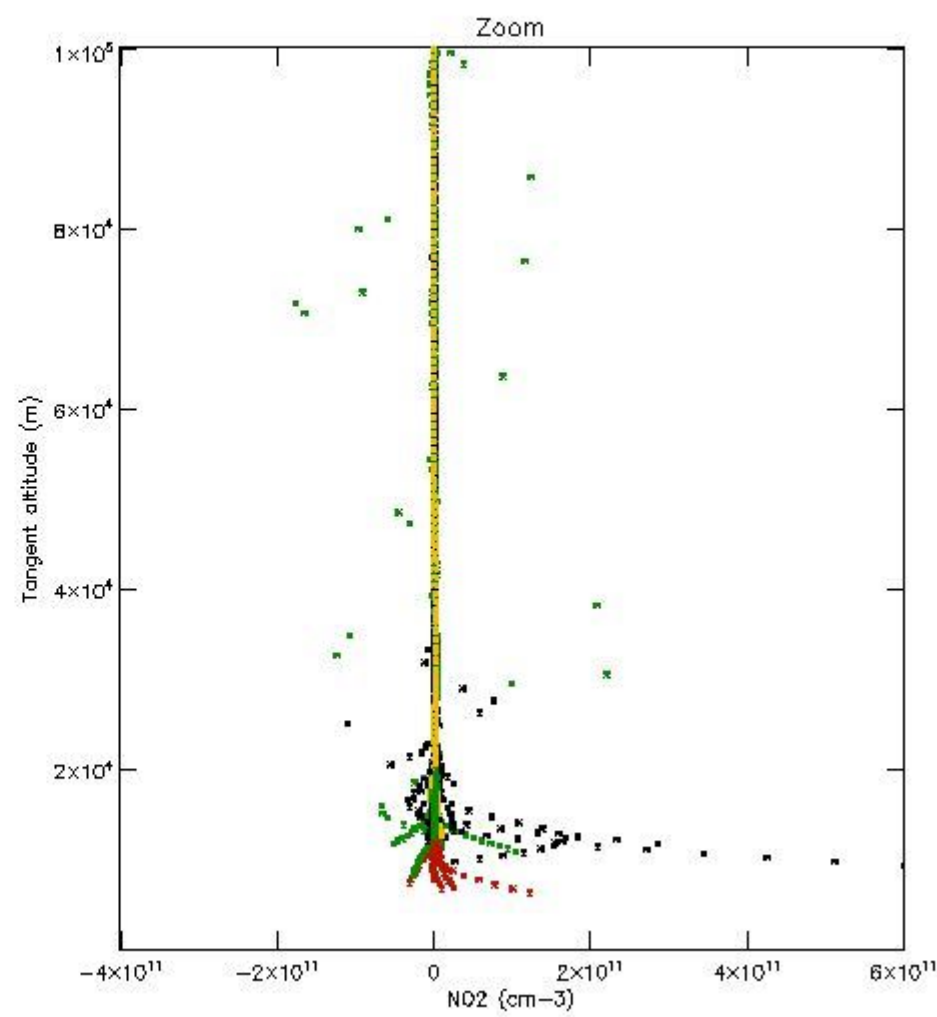
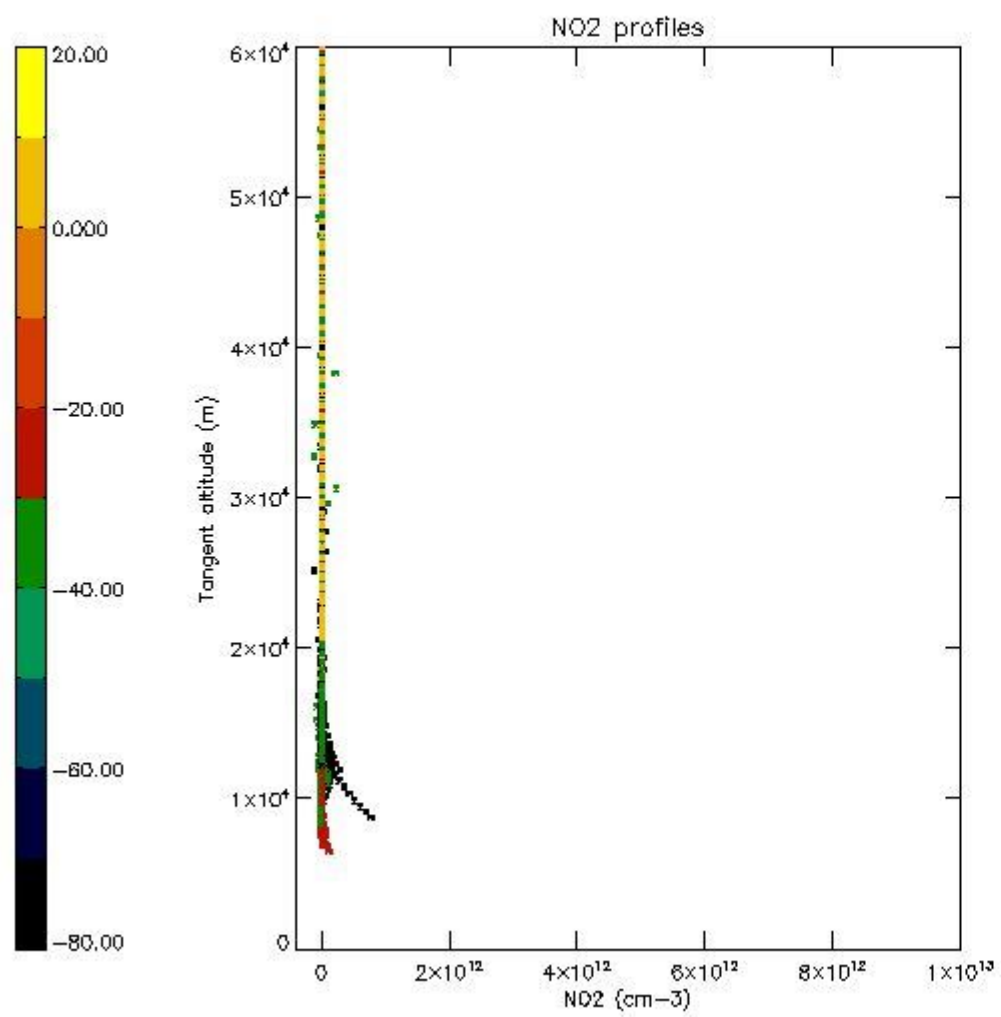
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



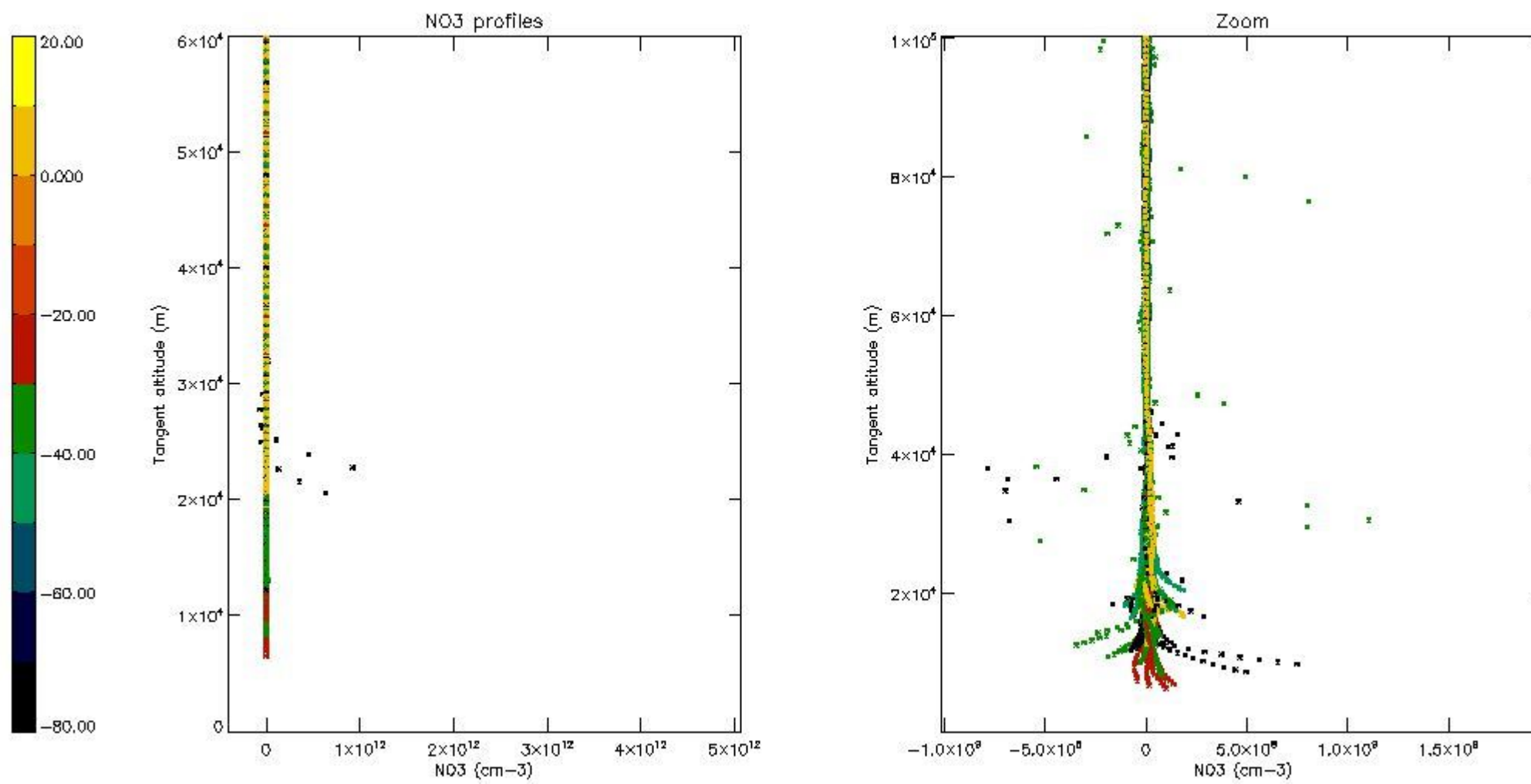
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

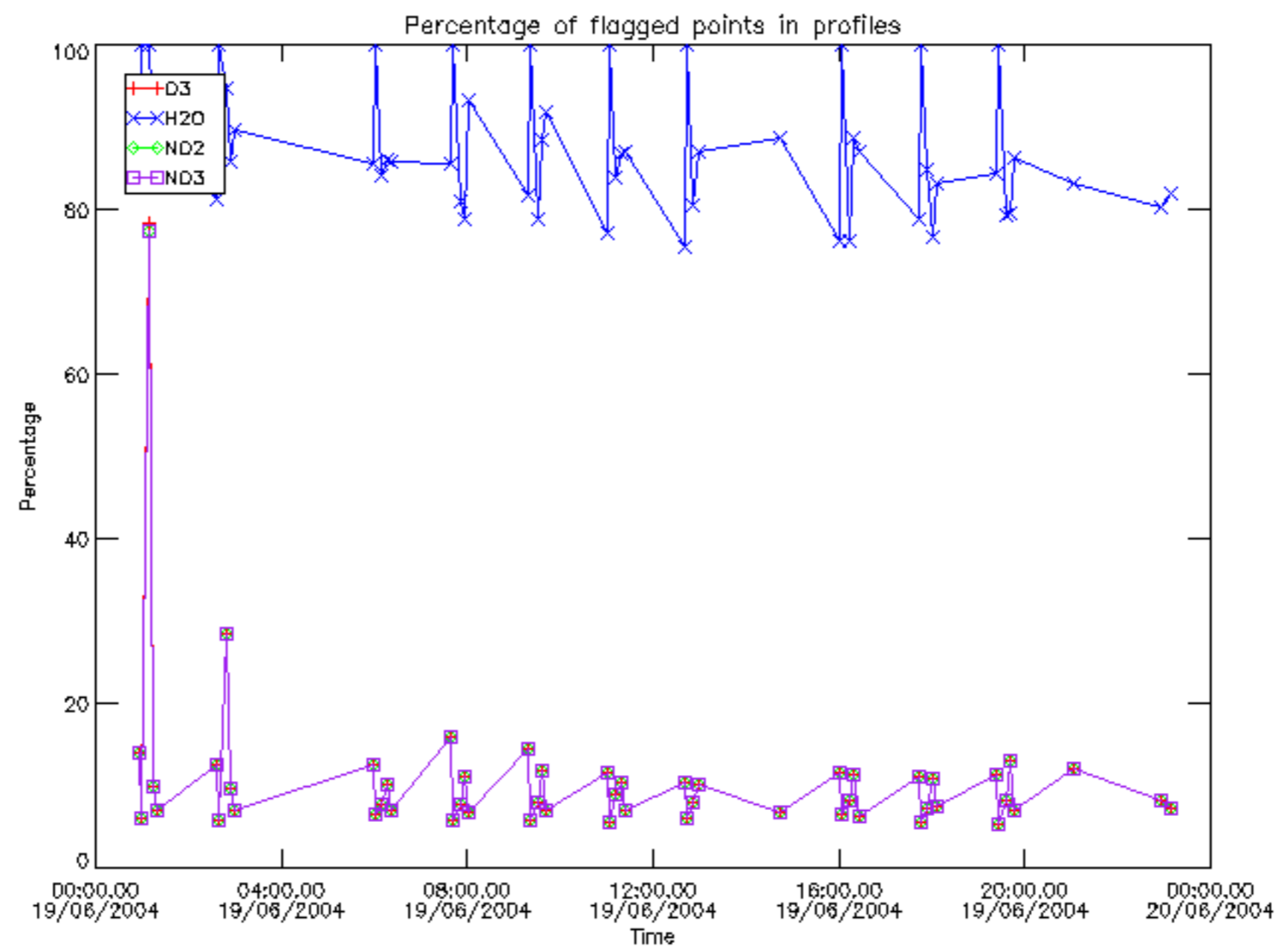
The colorbar represents the latitude.



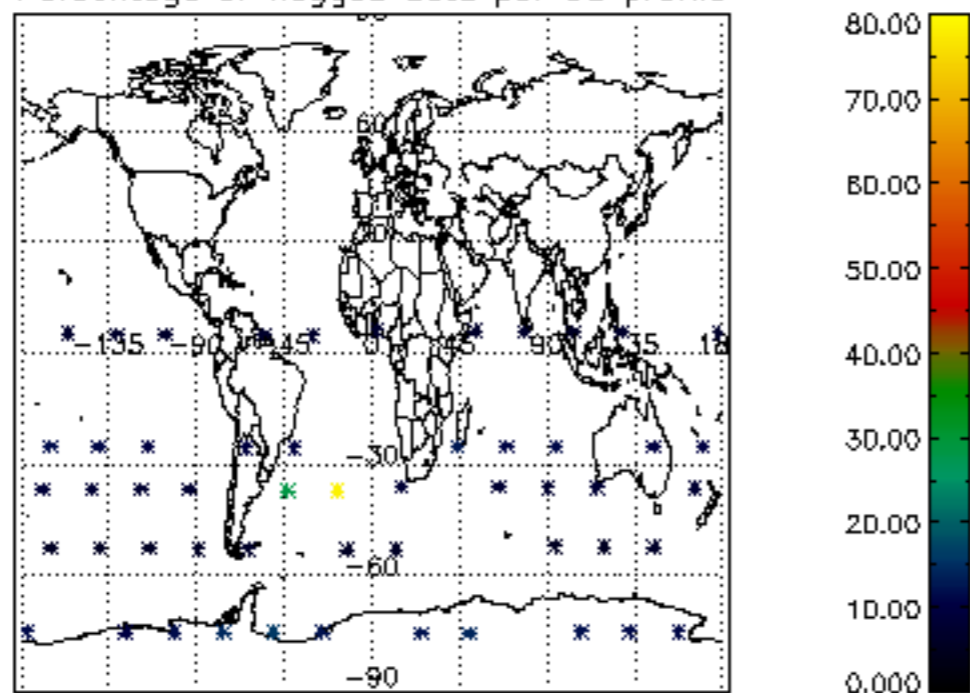
6. Auxiliary Data Files used for the production reported in section 2

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.

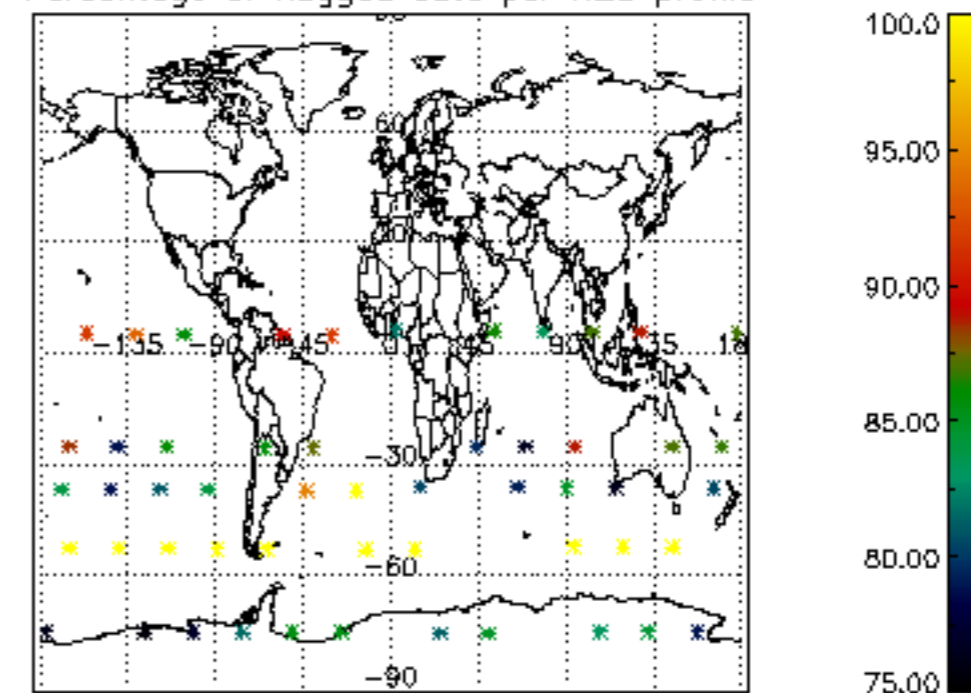
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	19-JUN-2004 00:01:30
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	19-JUN-2004 00:01:30
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	19-JUN-2004 00:01:30



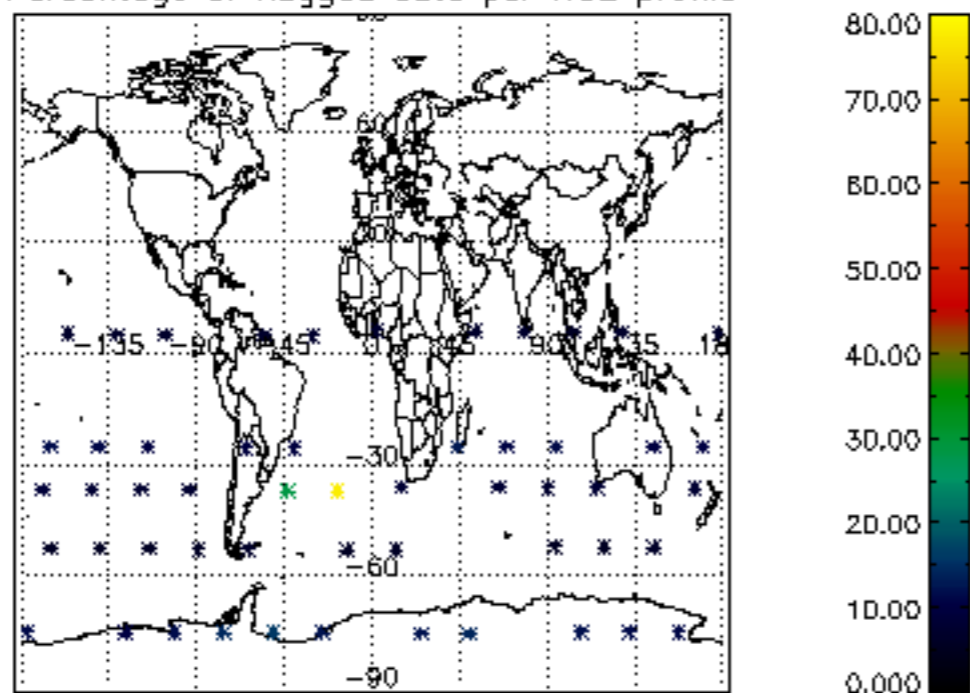
Percentage of flagged data per D3 profile



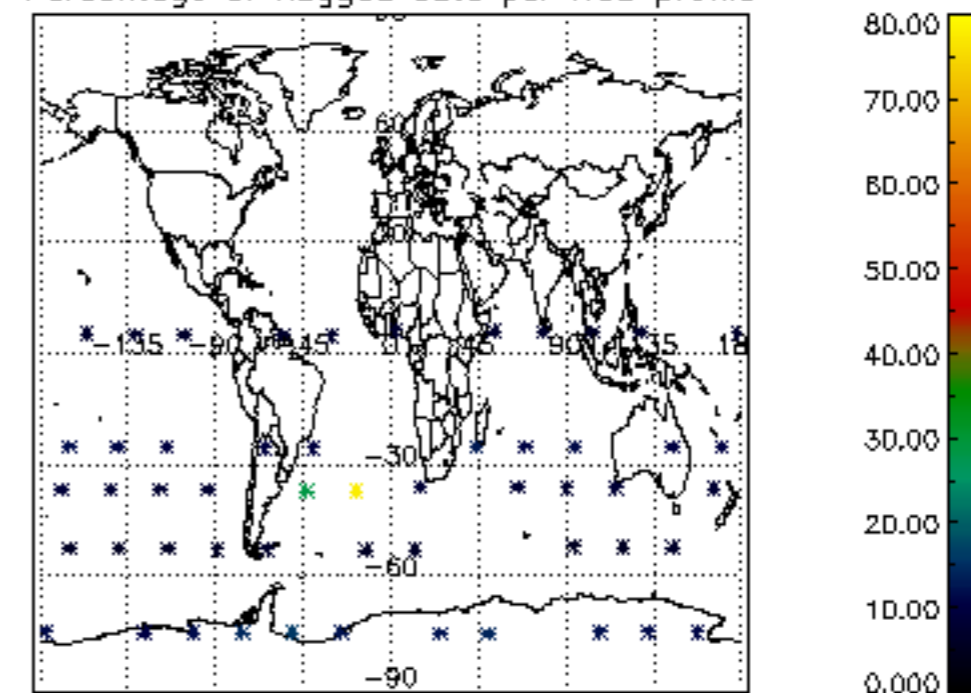
Percentage of flagged data per H2O profile

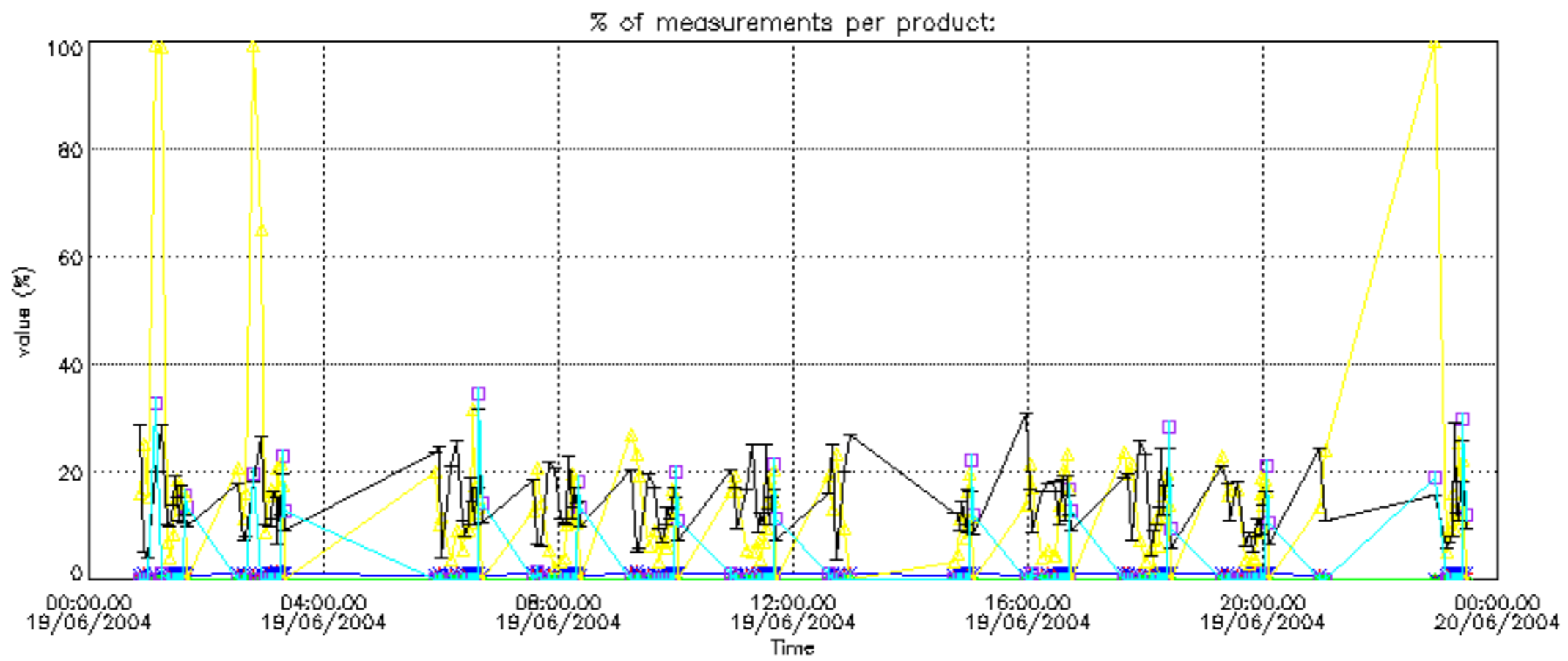
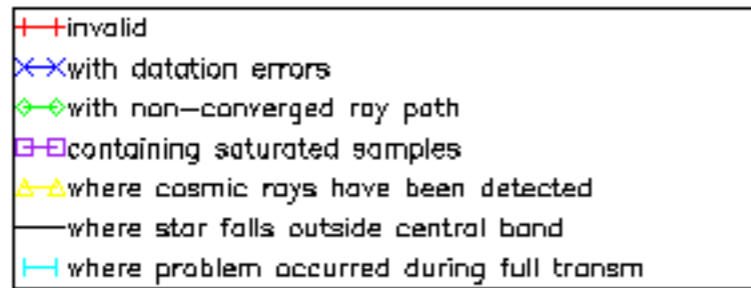


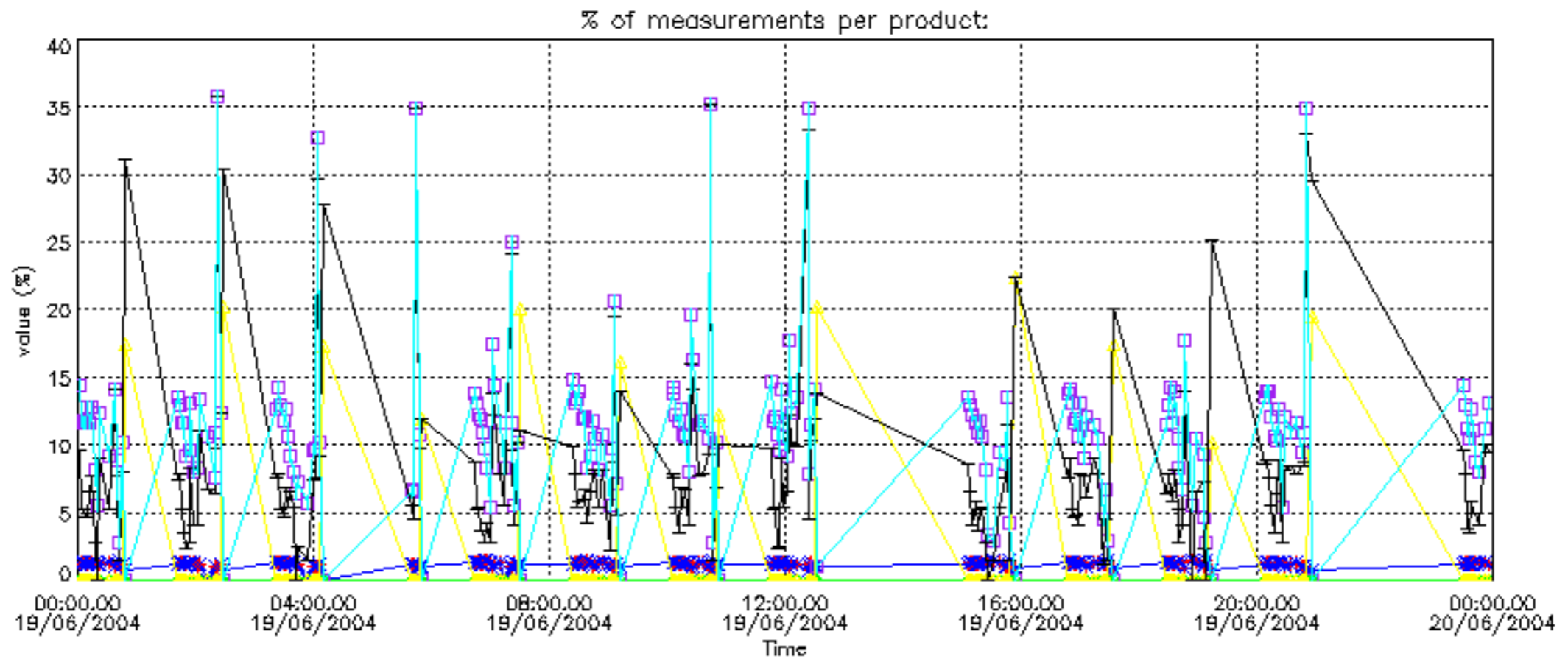
Percentage of flagged data per NO2 profile



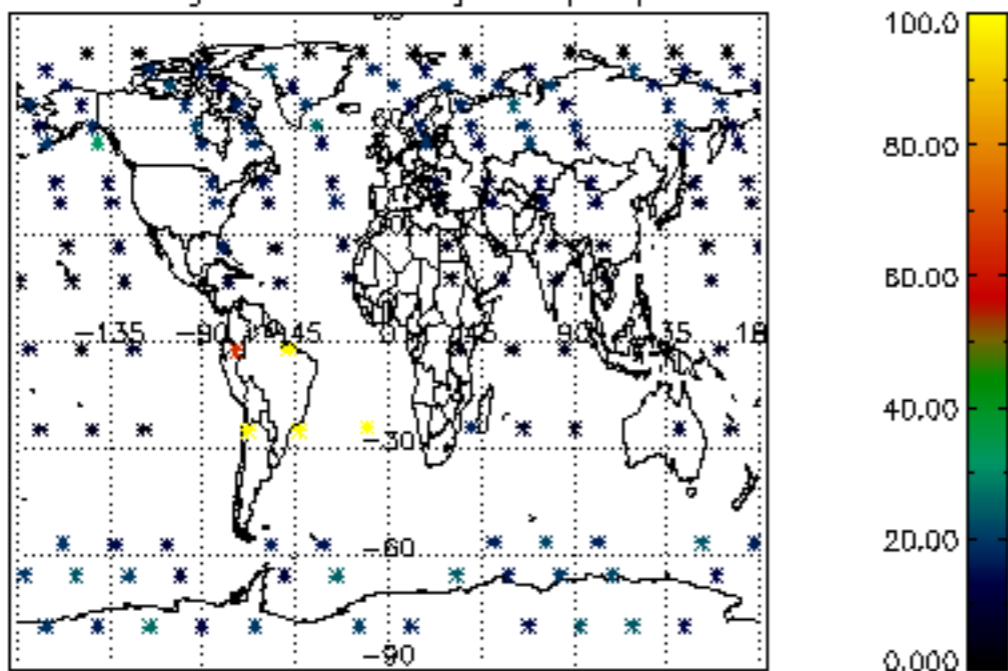
Percentage of flagged data per NO3 profile



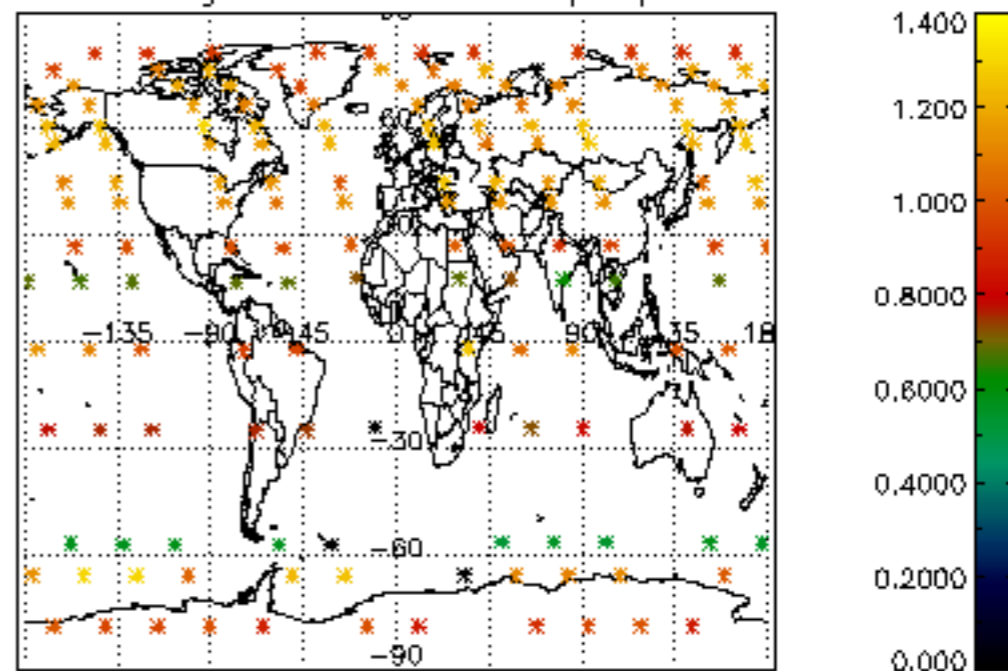




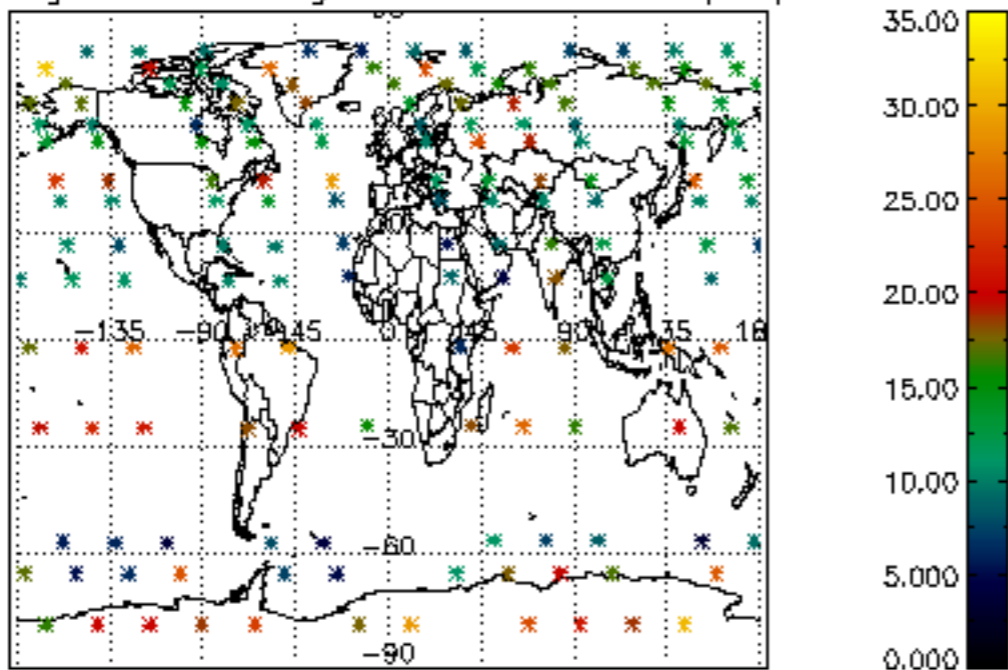
Percentage of cosmic ray hits per profile



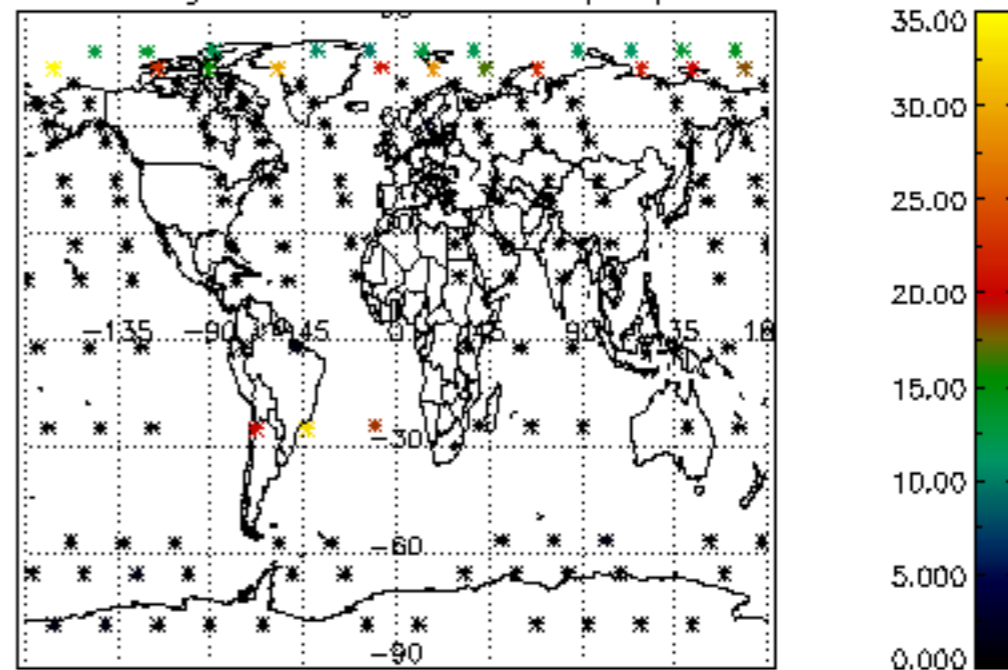
Percentage of datation errors per profile



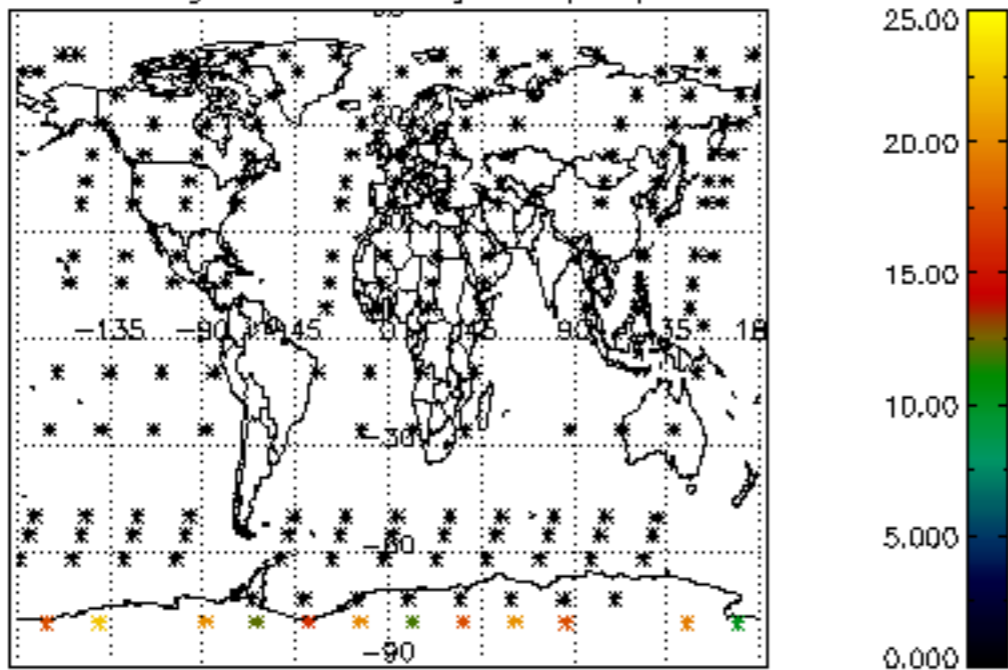
Percentage of star falling outside central band per profile



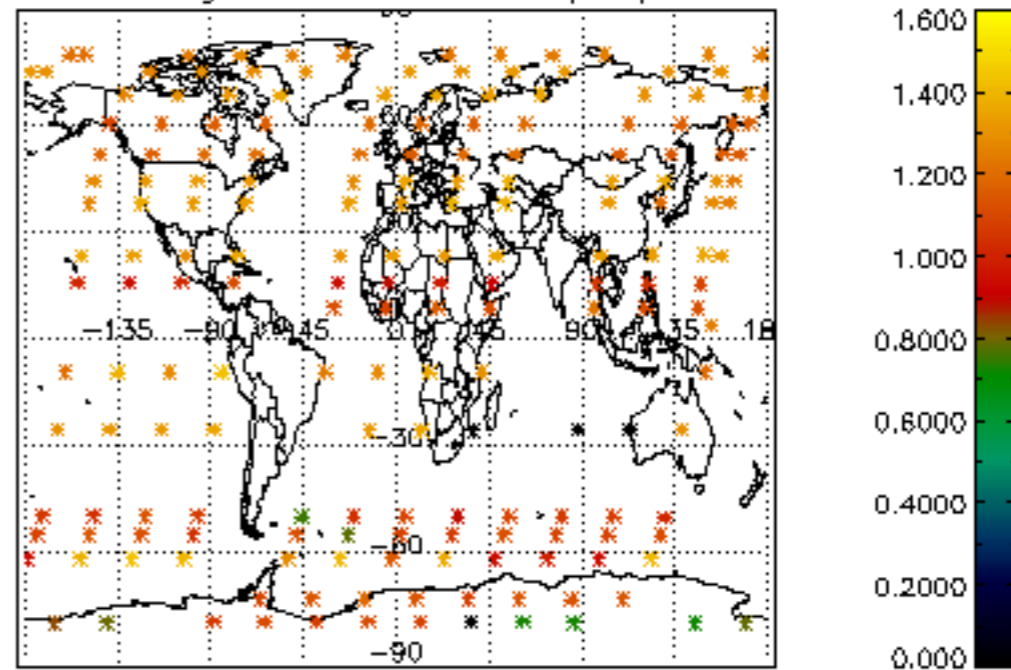
Percentage of saturation errors per profile



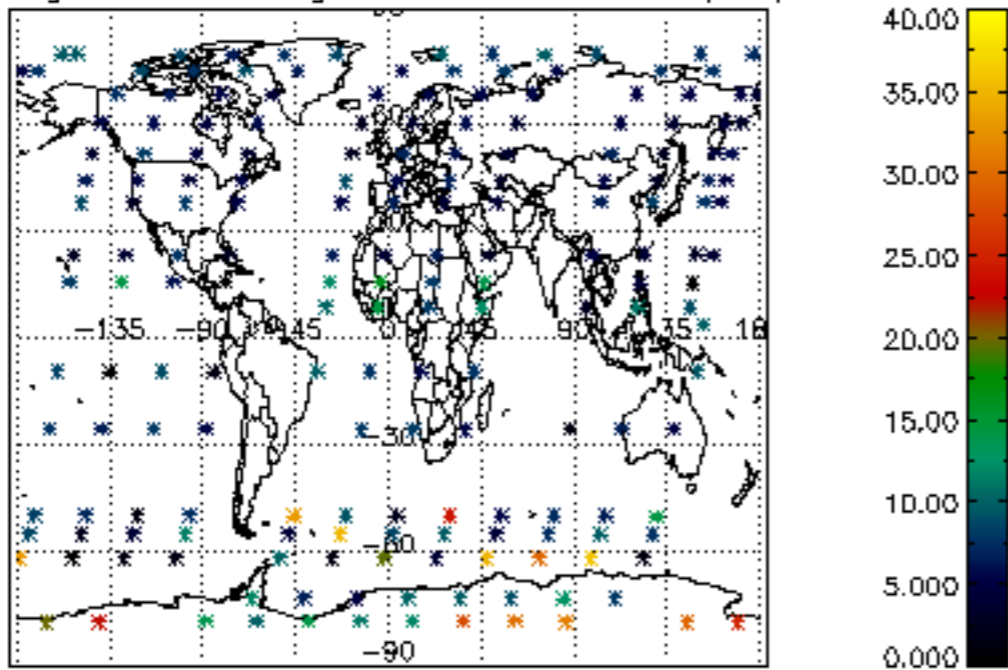
Percentage of cosmic ray hits per profile



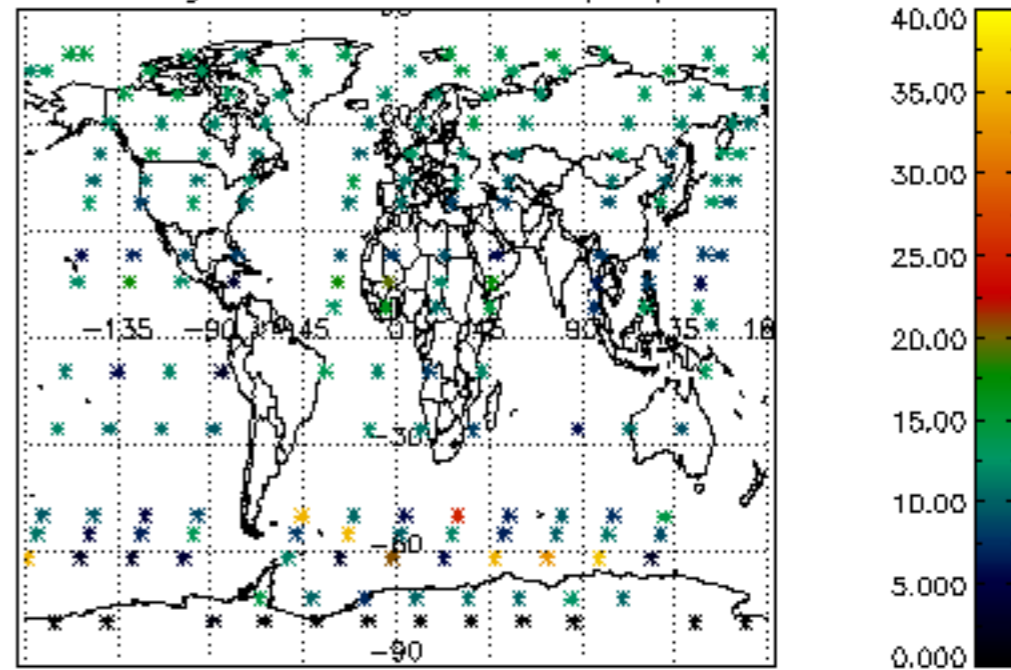
Percentage of datation errors per profile

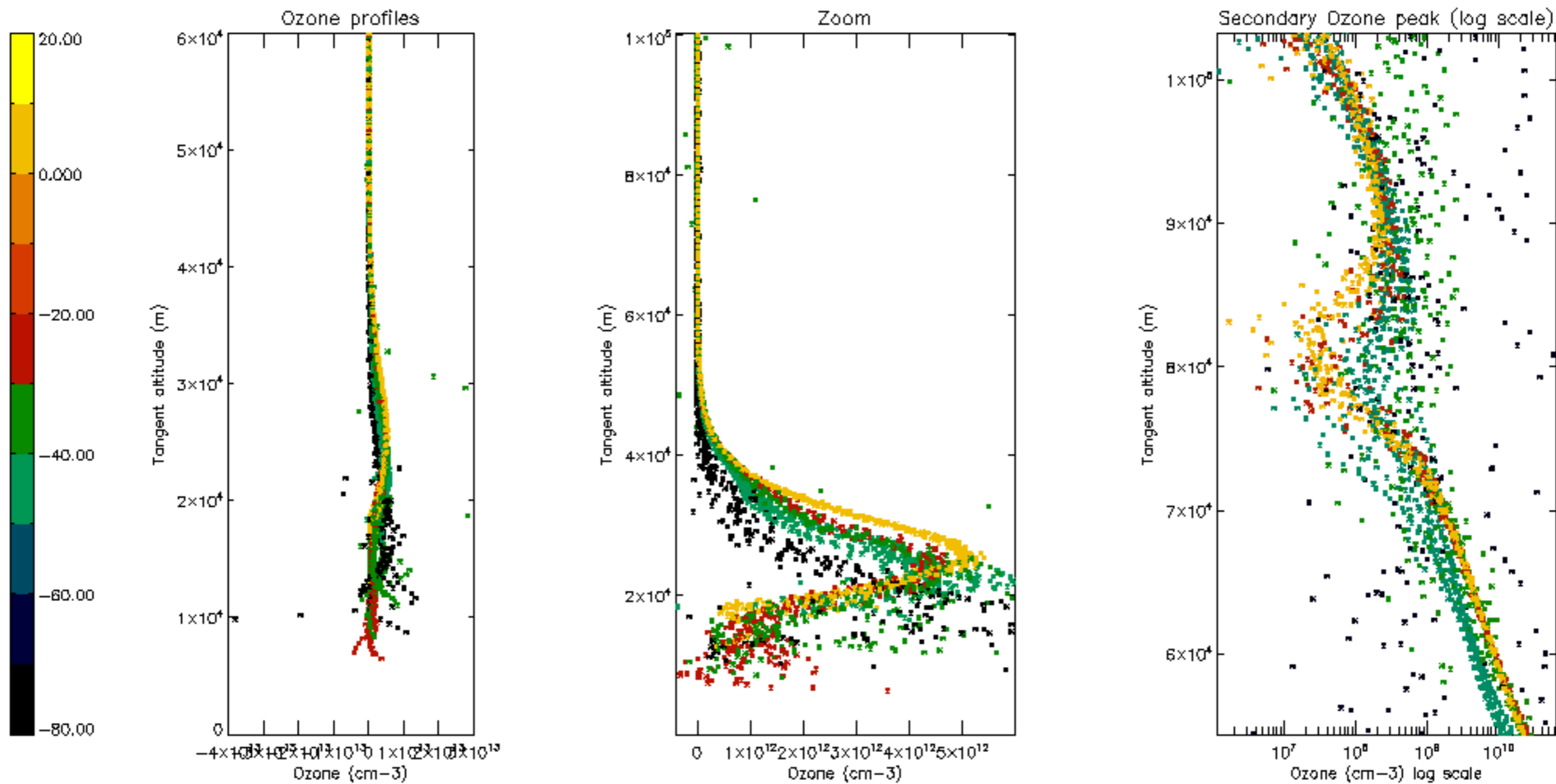


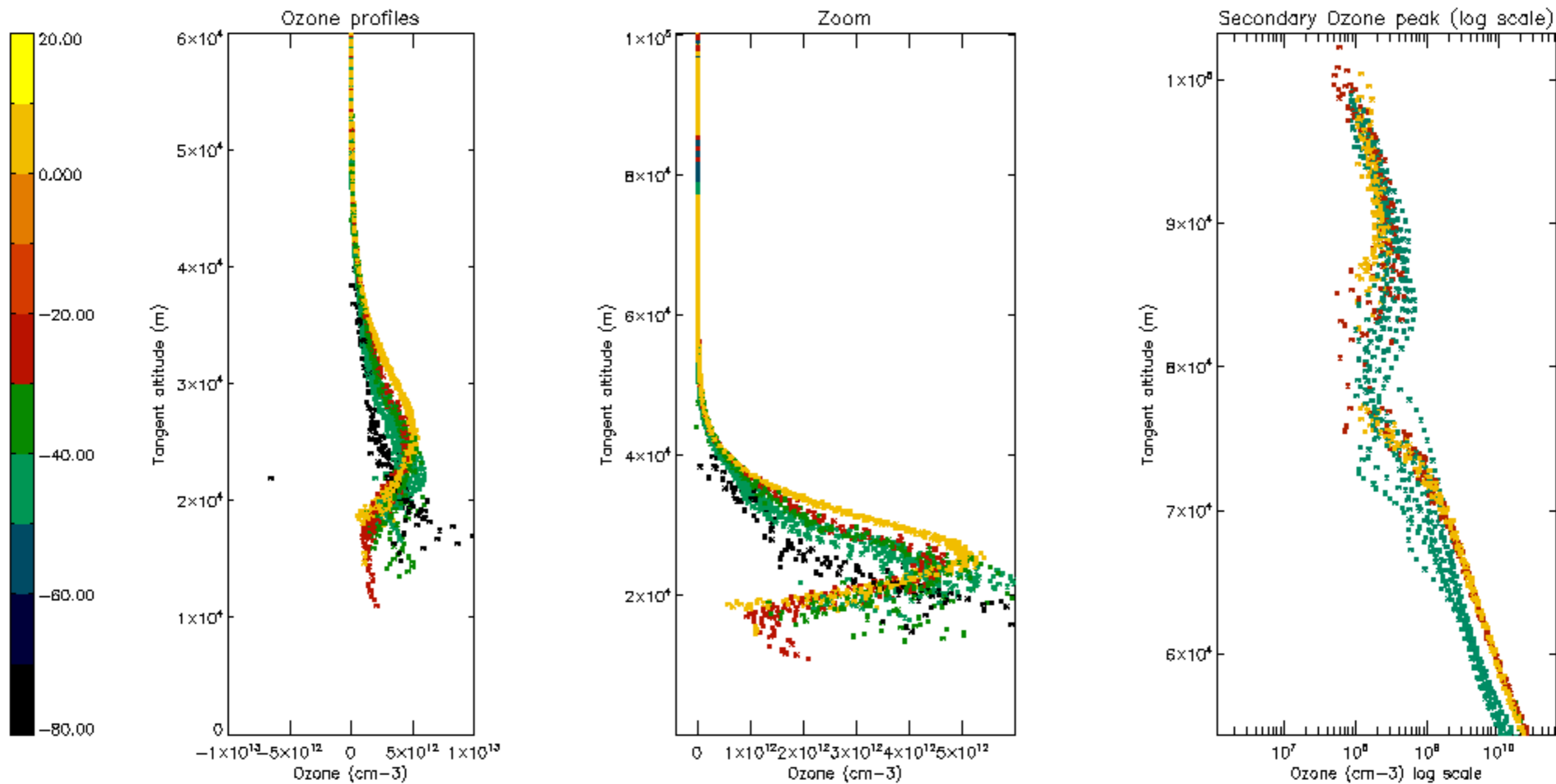
Percentage of star falling outside central band per profile

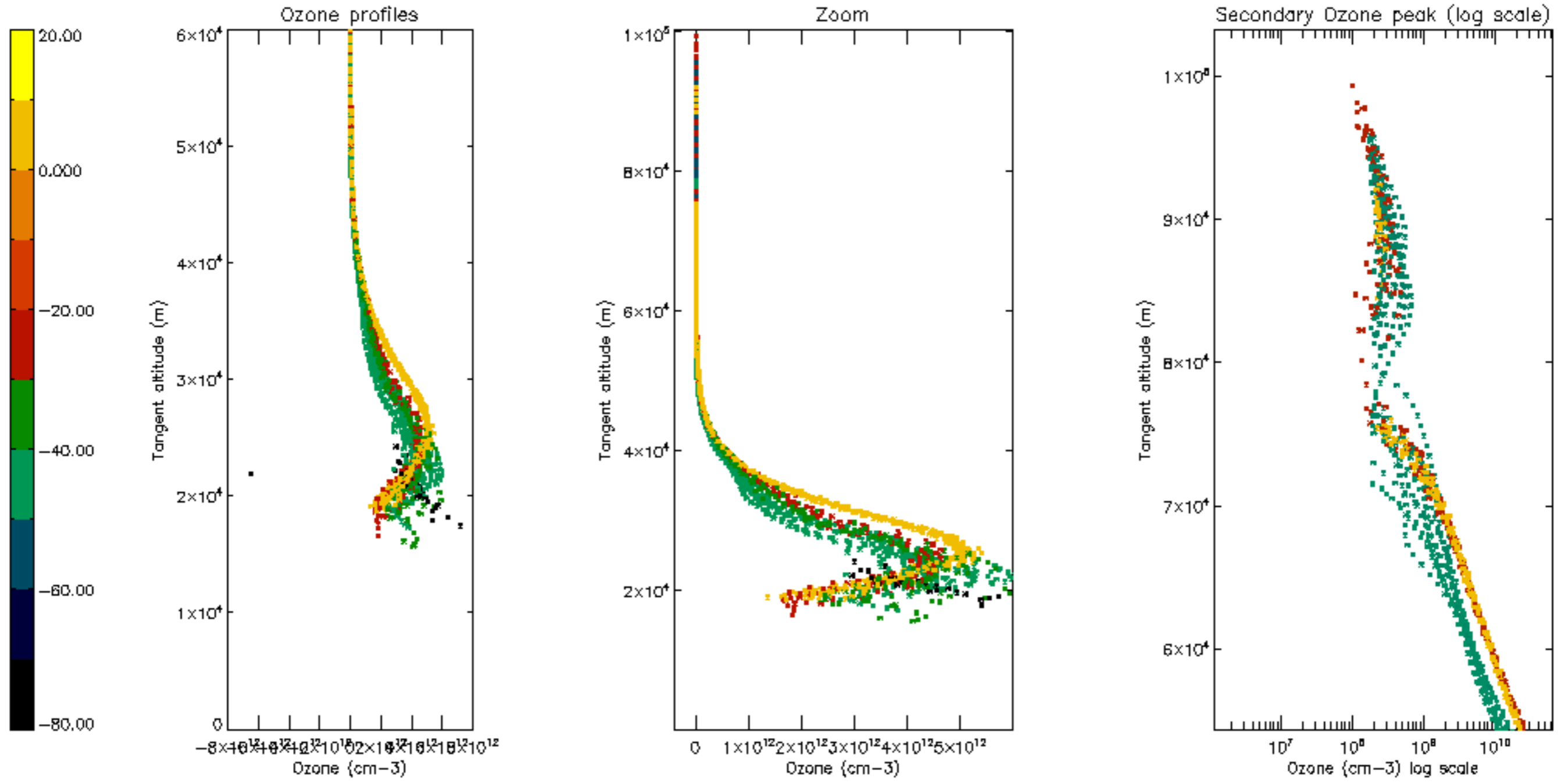


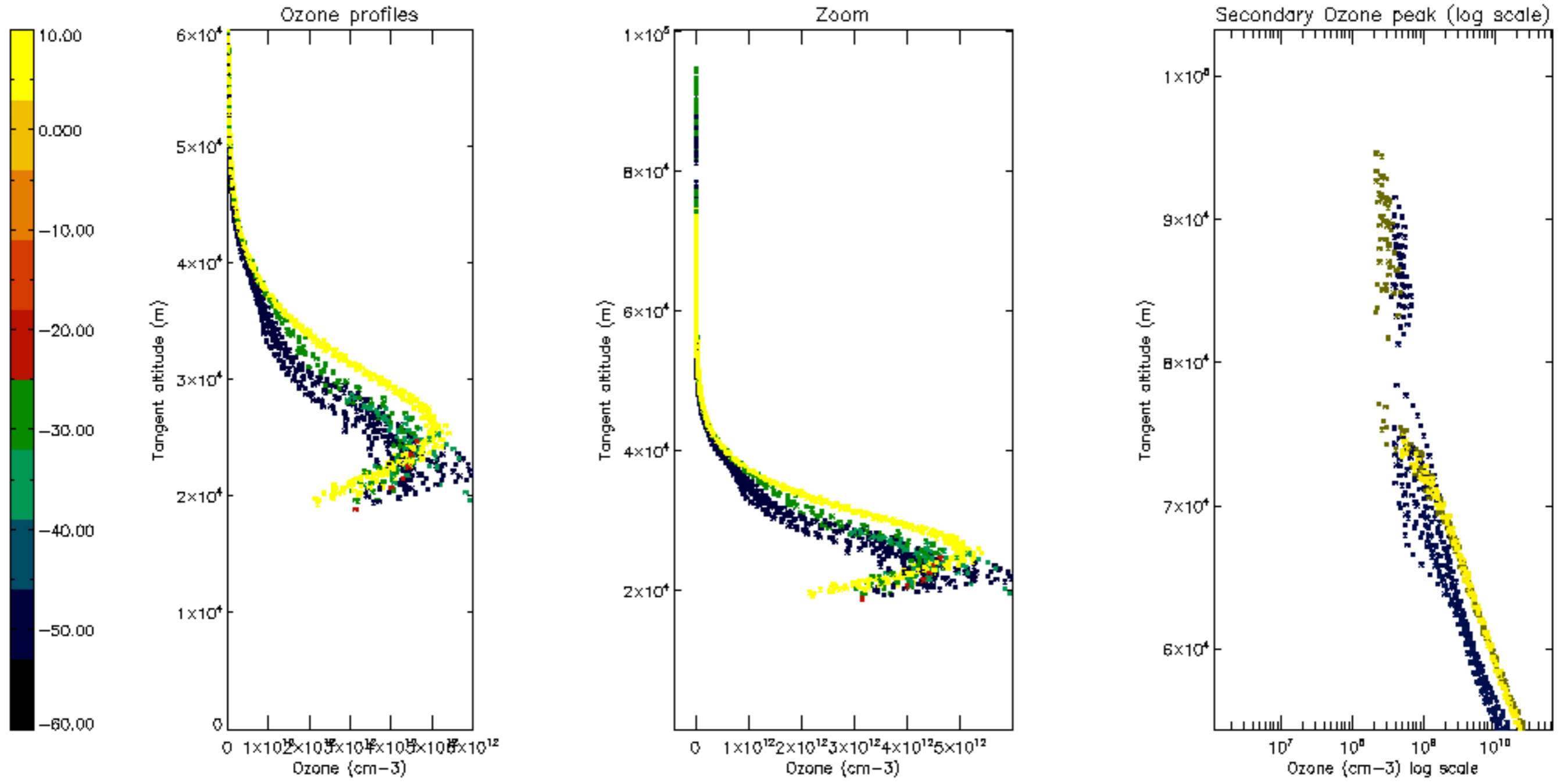
Percentage of saturation errors per profile

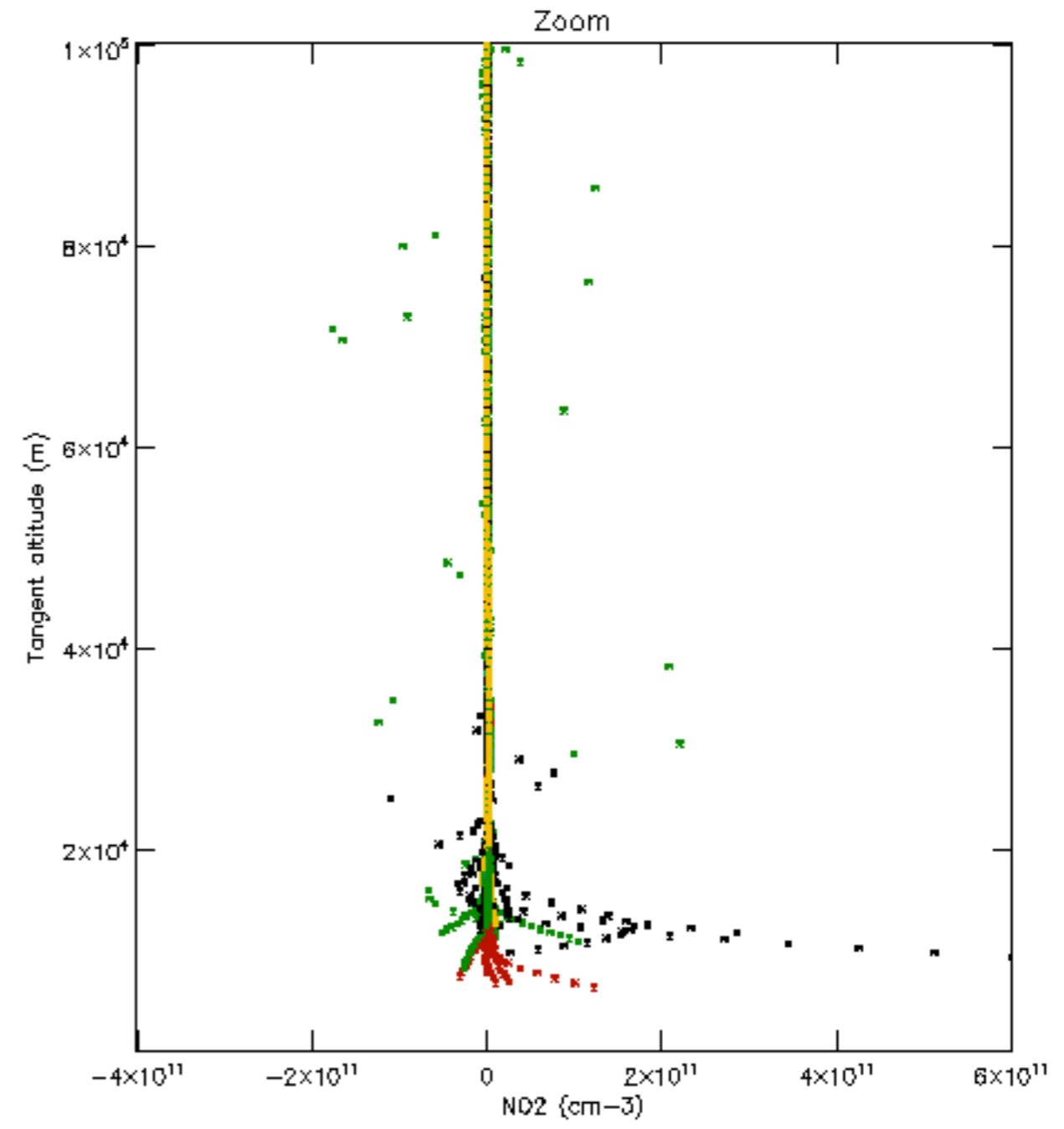
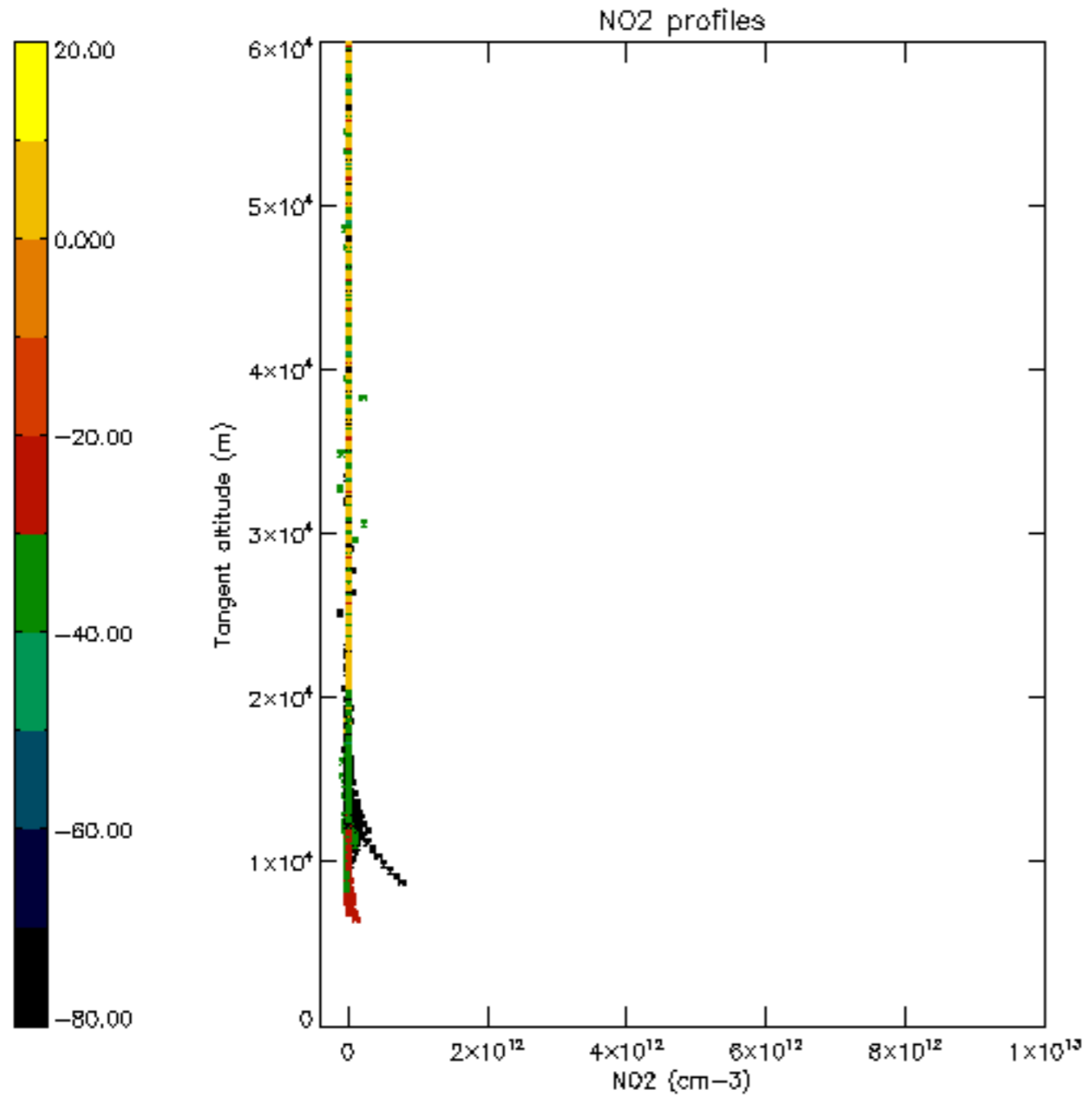


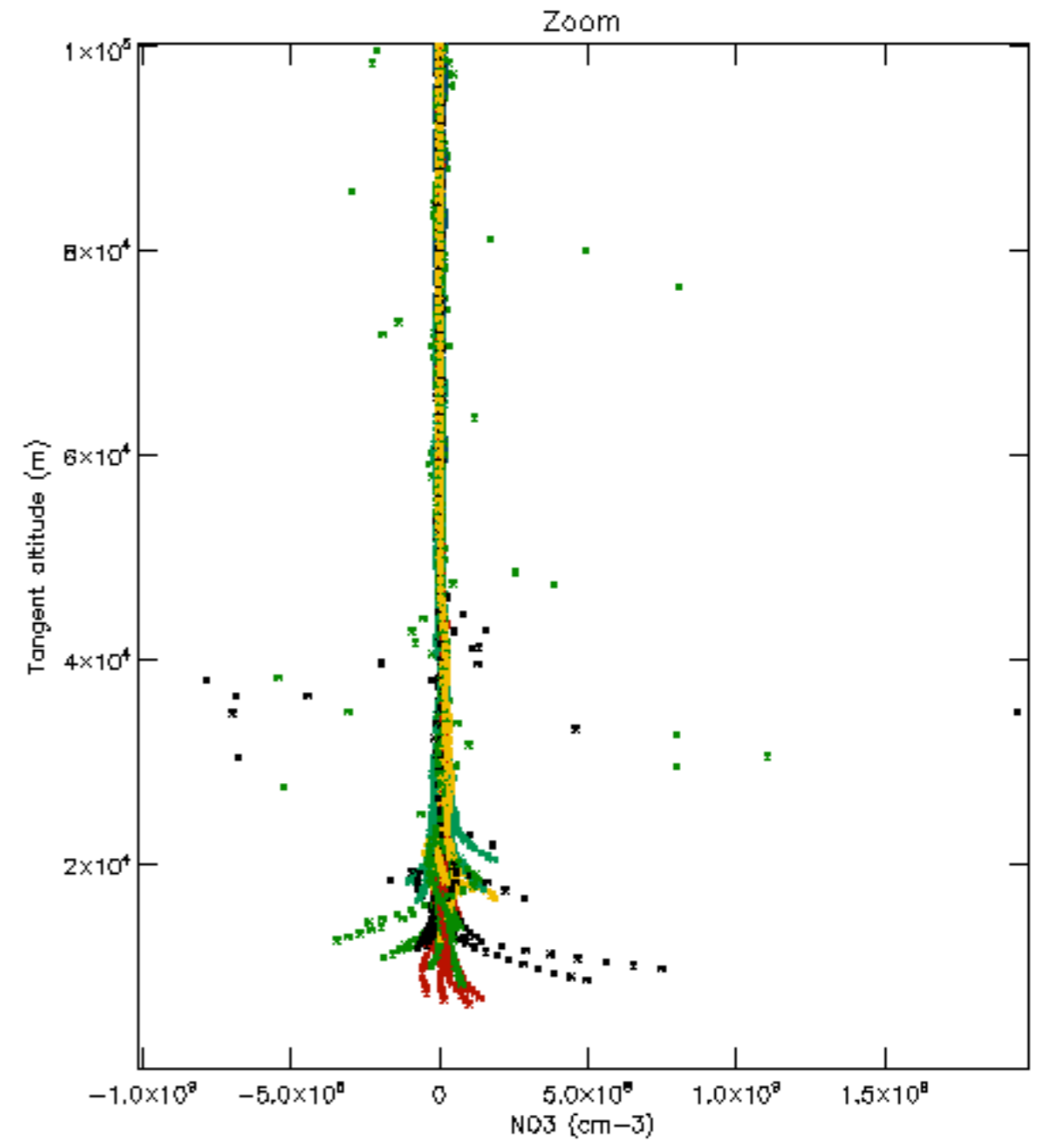
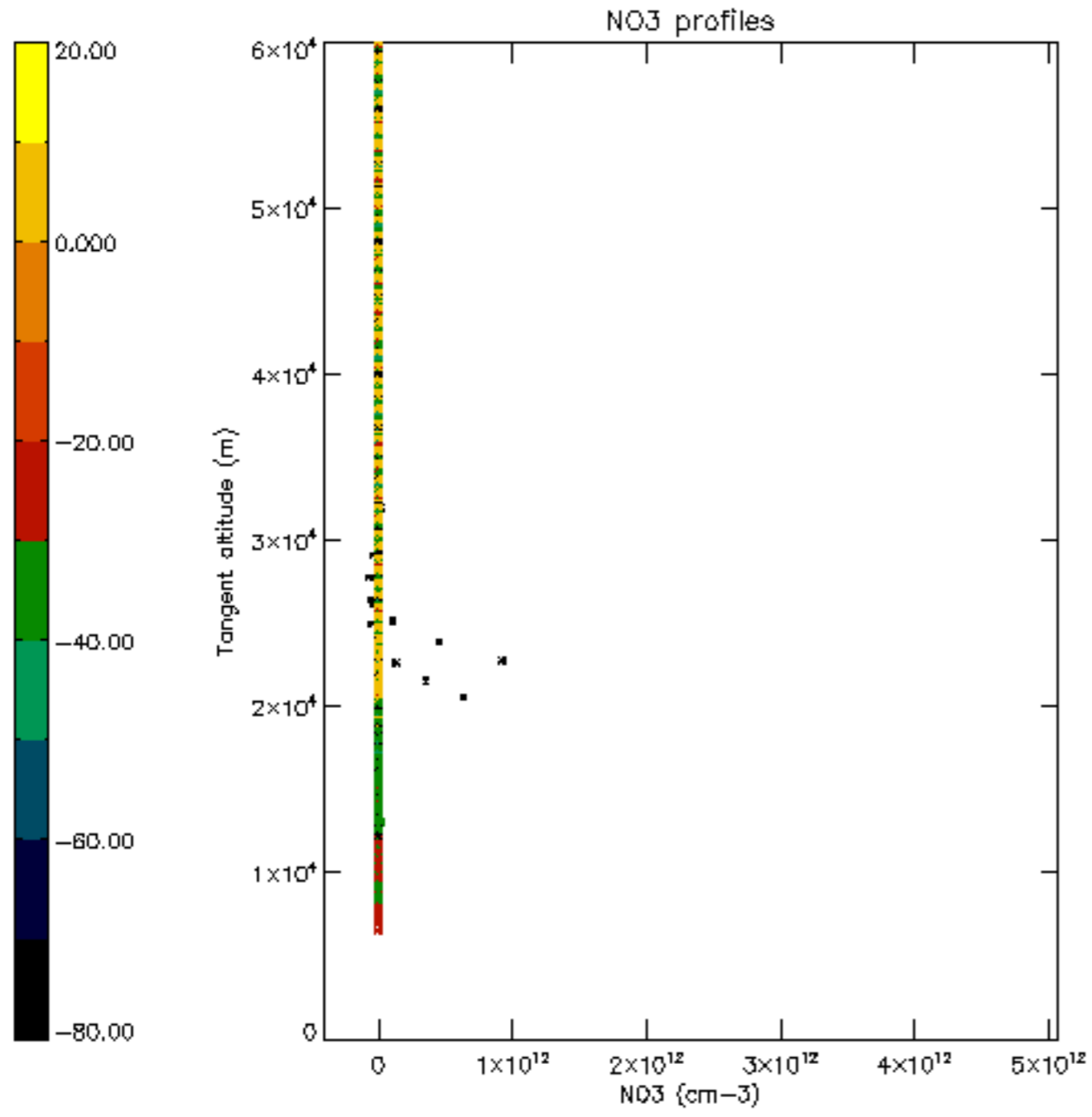


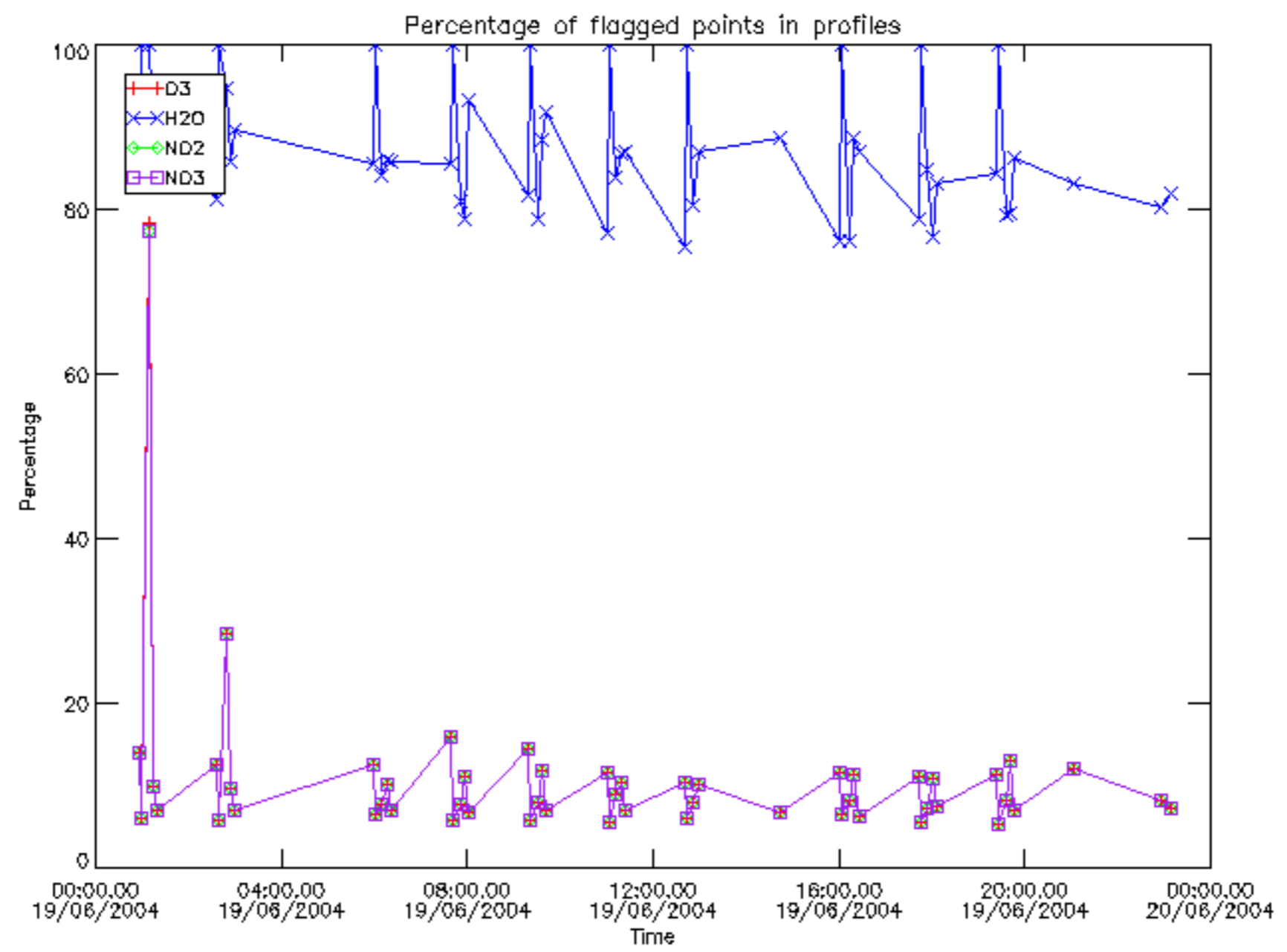




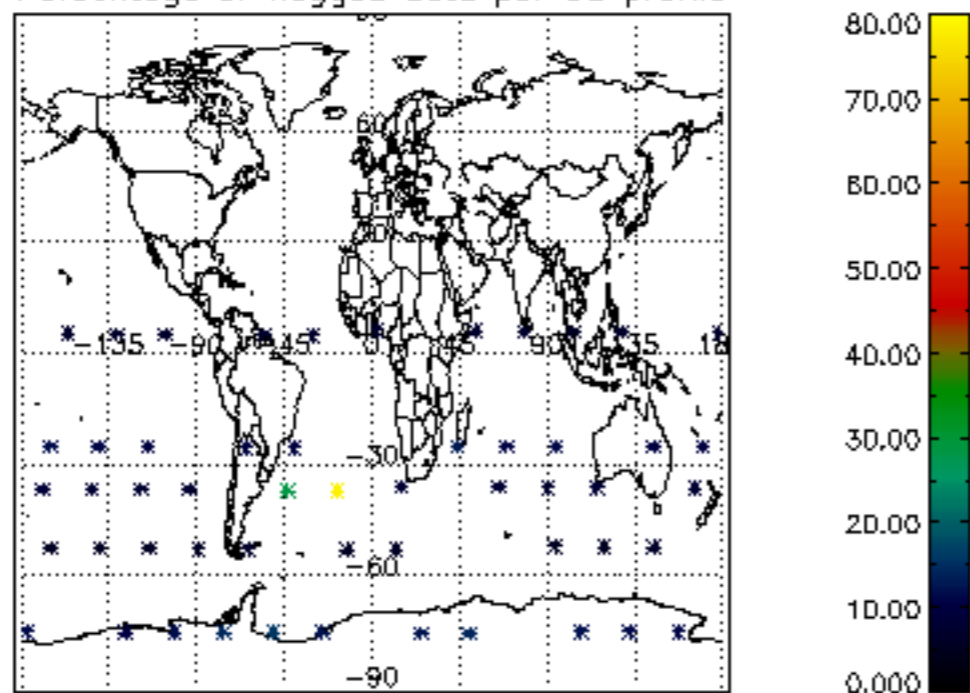




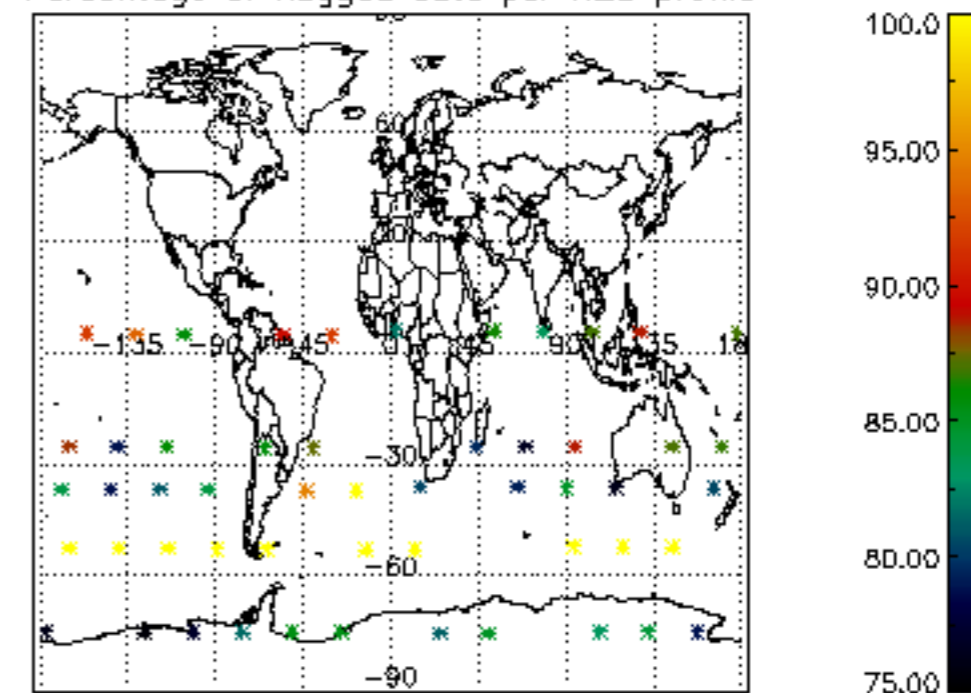




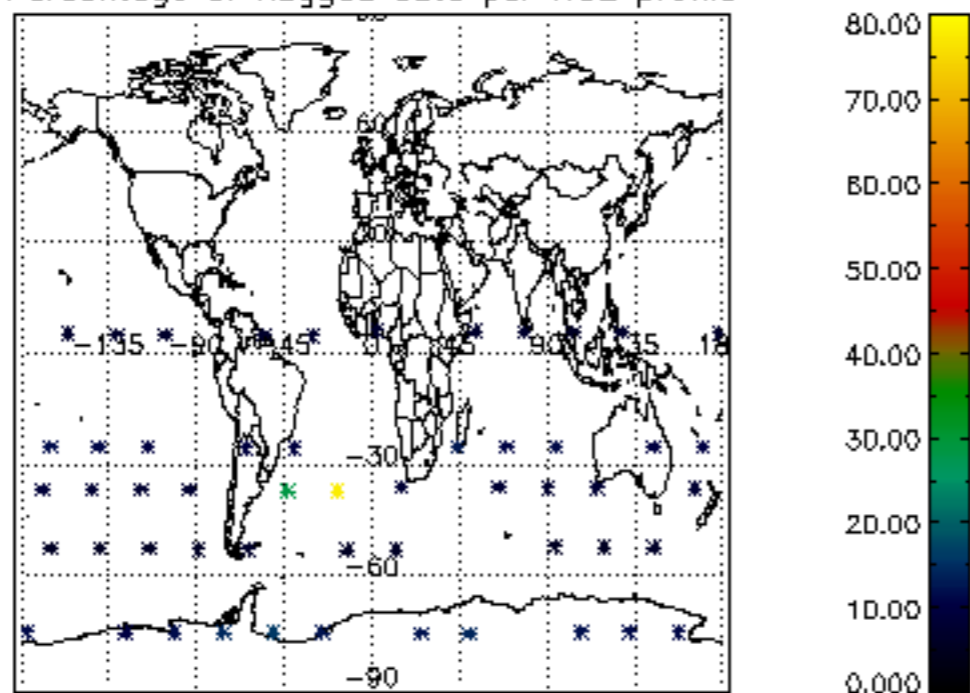
Percentage of flagged data per D3 profile



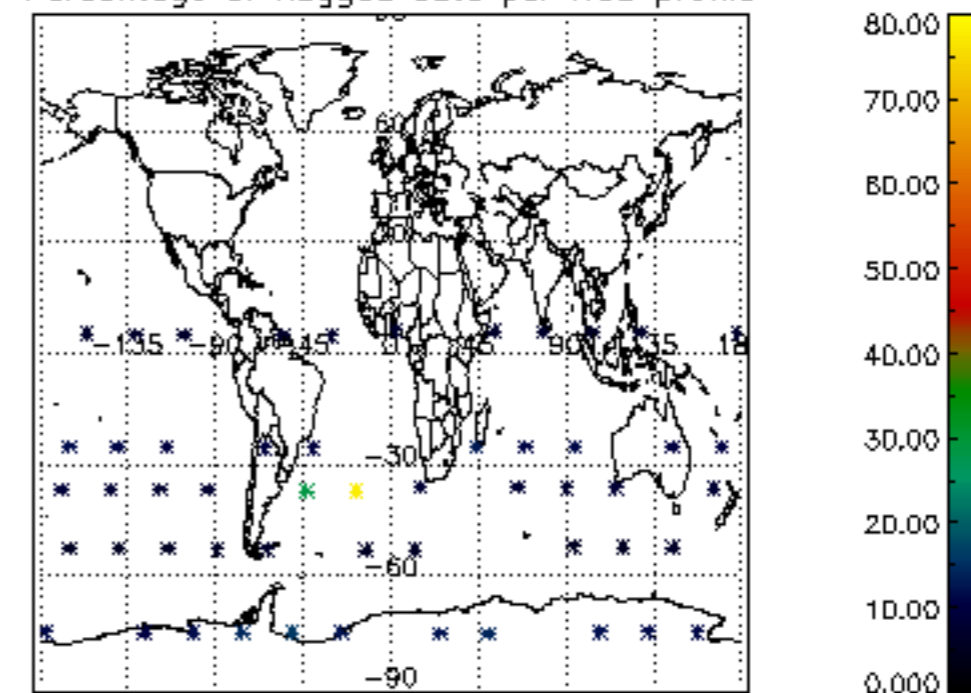
Percentage of flagged data per H2O profile

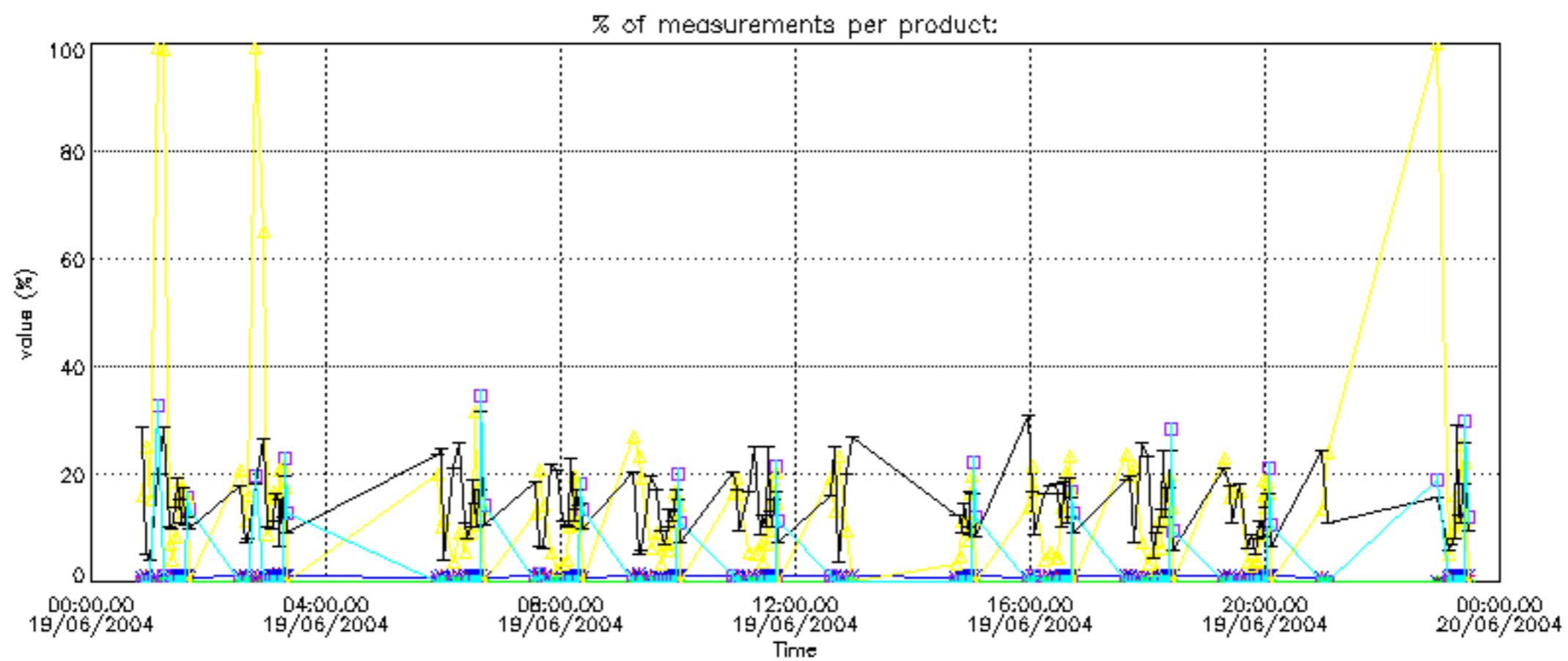
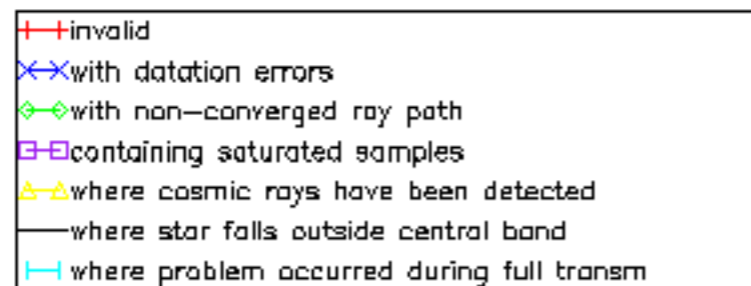


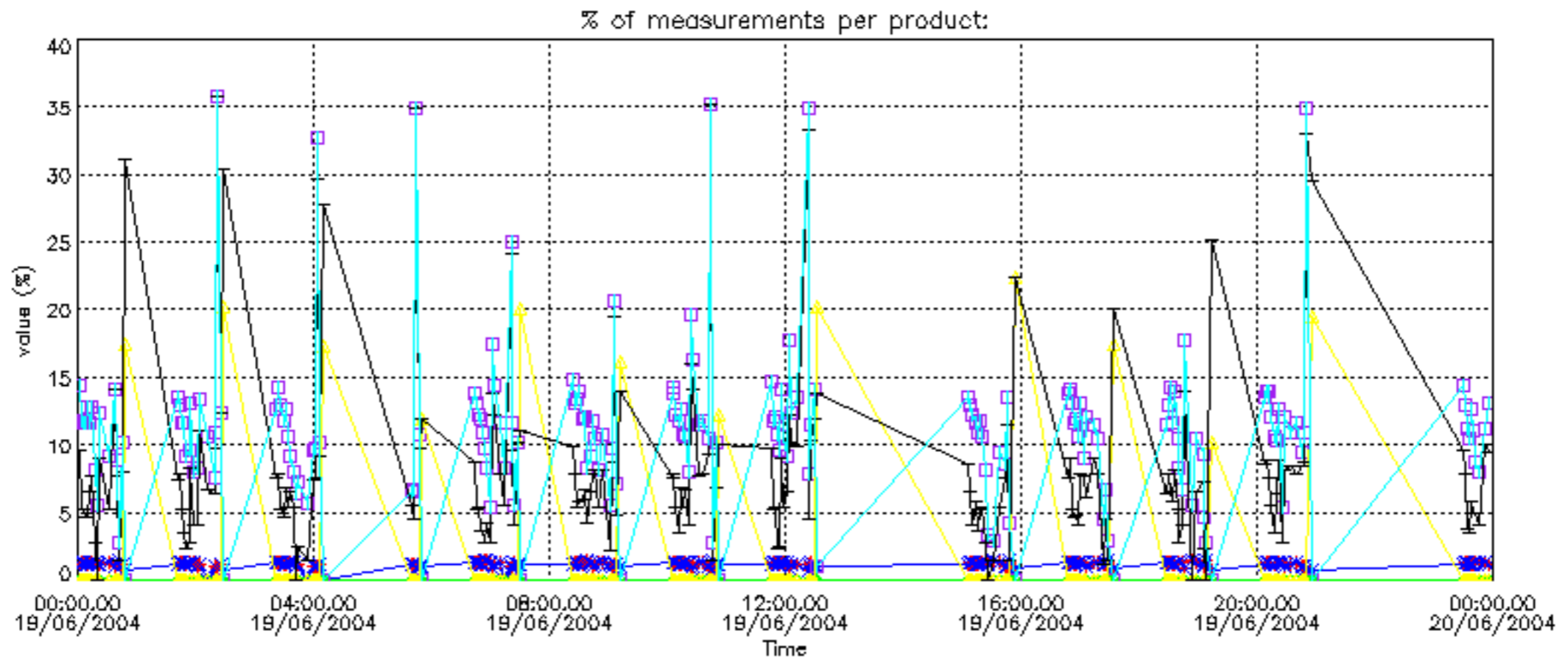
Percentage of flagged data per NO2 profile



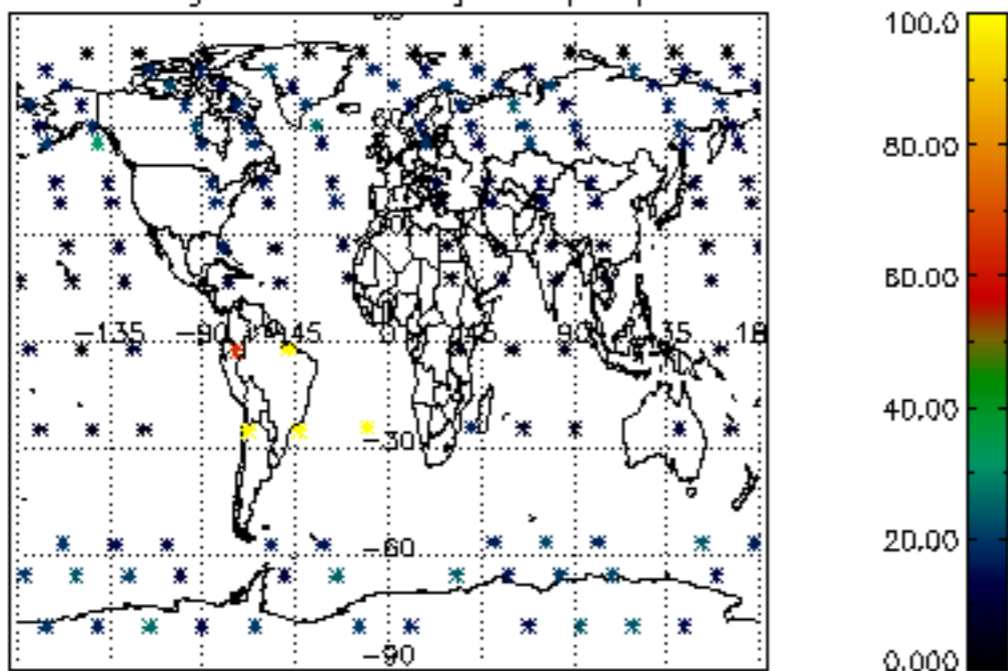
Percentage of flagged data per NO3 profile



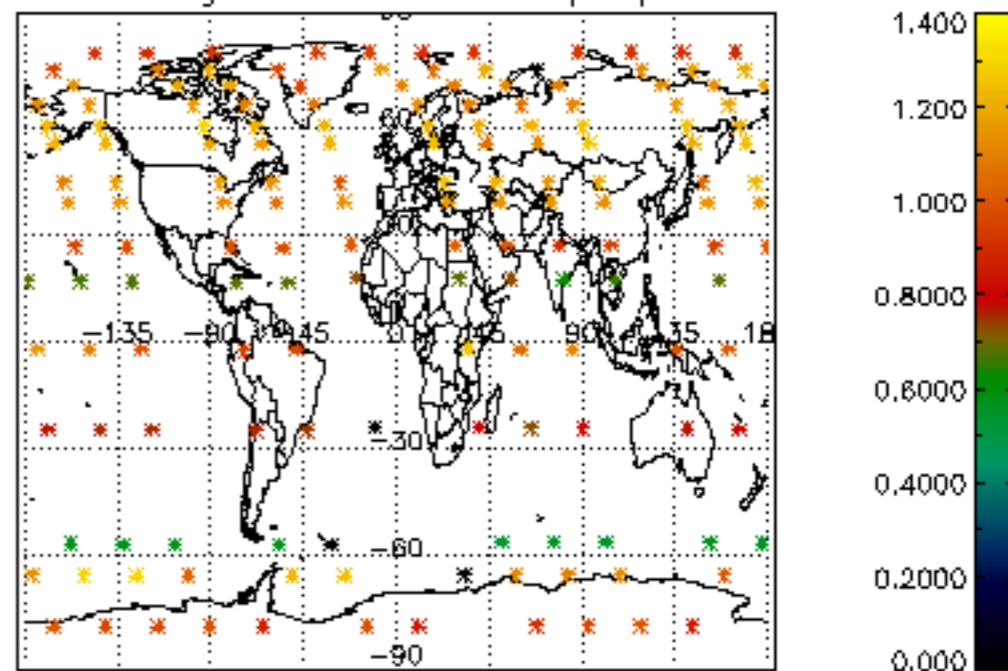




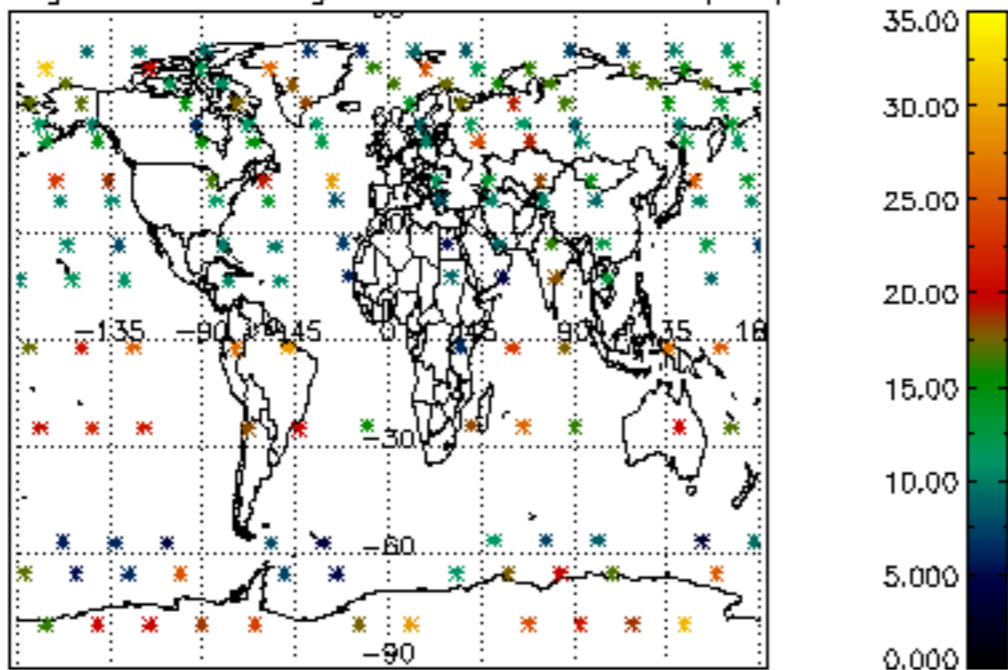
Percentage of cosmic ray hits per profile



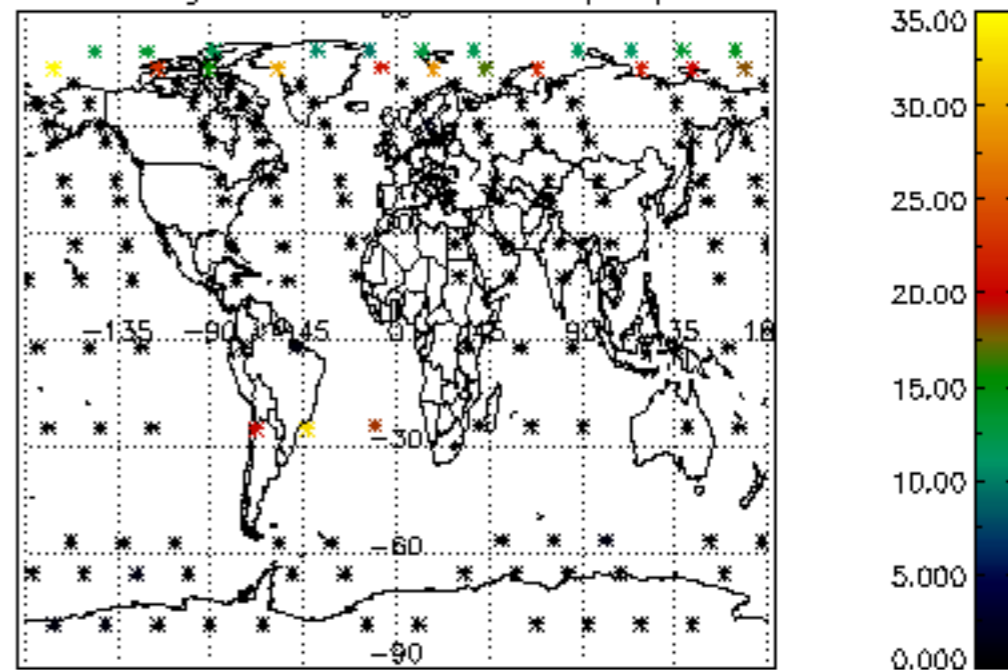
Percentage of datation errors per profile



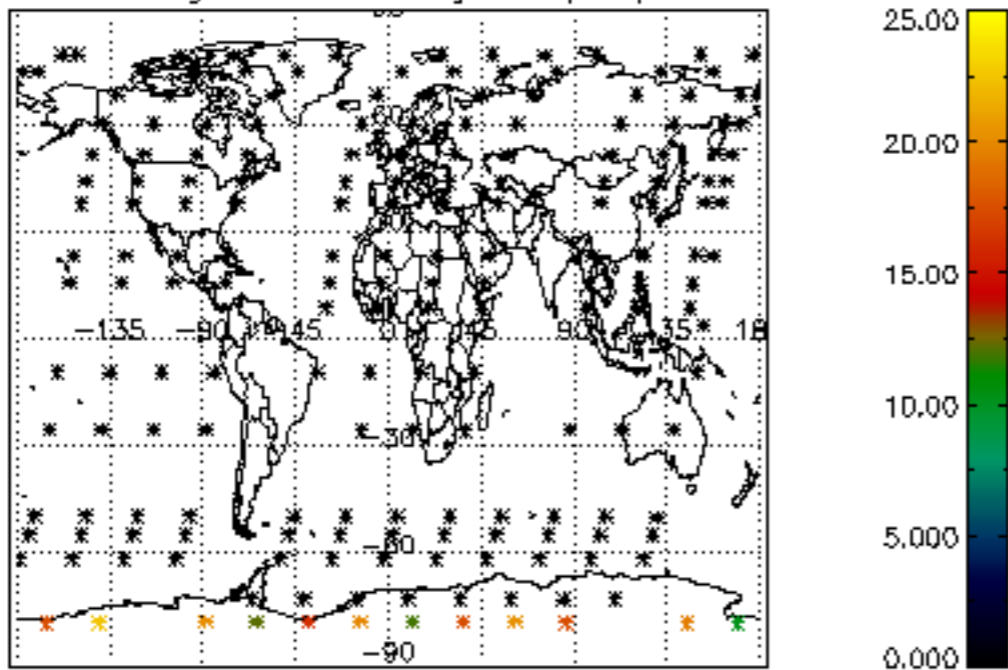
Percentage of star falling outside central band per profile



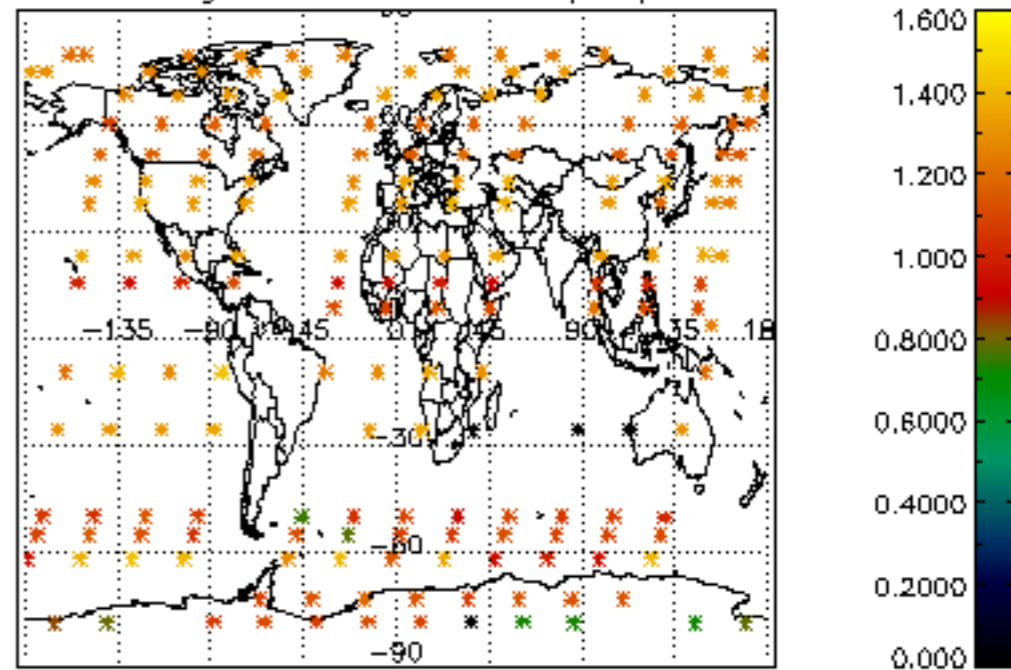
Percentage of saturation errors per profile



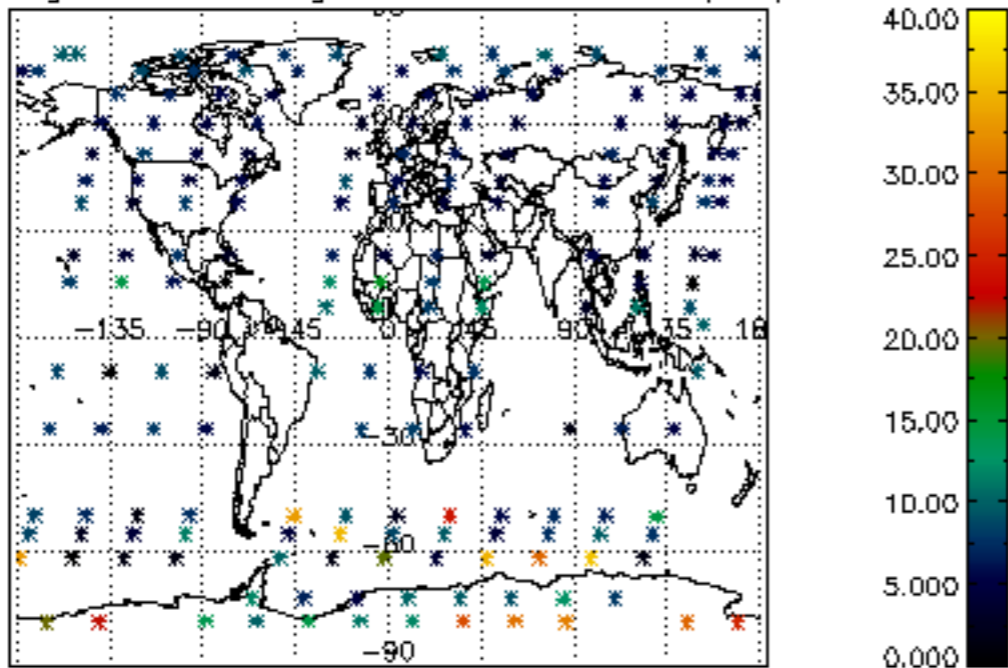
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

