

GOMOS Level 2 Daily Report

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

Item	Value
Time of report generation	24APR2013 13:19:16
Data source version	GOMOS/6.01
Start time of products	07-05-2011 (07MAY2011 00:00:00)
Stop time of products	08-05-2011 (08MAY2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	296
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

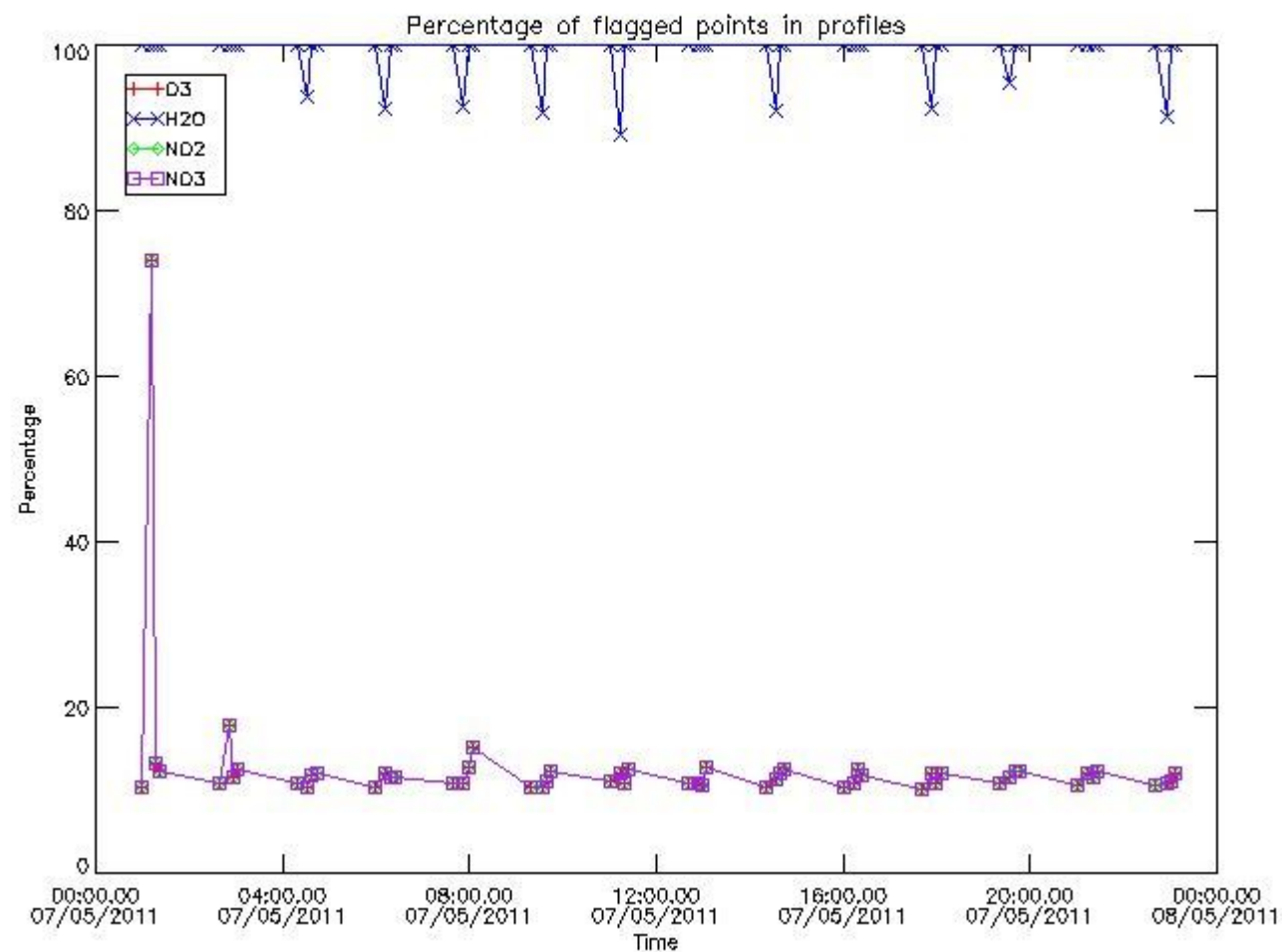
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110507_000018_000000653102_00160_48019_3805.N1	07-MAY-2011 00:00:18	Twilight	65.000	16	21Alp Sco	1.0200	3000.0	130	48019	No
2	GOM_NL__2PRFIN20110507_000217_000000593102_00160_48019_3806.N1	07-MAY-2011 00:02:17	Twilight	59.000	80	7Del Sco	2.3160	30000.	118	48019	No
3	GOM_NL__2PRFIN20110507_000512_000000413102_00160_48019_3807.N1	07-MAY-2011 00:05:12	Bright	41.000	122	9Alp2Lib	2.7470	9700.0	82	48019	No
4	GOM_NL__2PRFIN20110507_000715_000000443102_00160_48019_3808.N1	07-MAY-2011 00:07:15	Bright	43.500	104	27Bet Lib	2.6140	13100.	87	48019	No
5	GOM_NL__2PRFIN20110507_001531_000000373102_00160_48019_3809.N1	07-MAY-2011 00:15:31	Bright	37.000	111	8Eta Boo	2.6800	6000.0	74	48019	No
6	GOM_NL__2PRFIN20110507_001842_000000433102_00160_48019_3810.N1	07-MAY-2011 00:18:42	Bright	42.500	83		2.3780	11000.	85	48019	No
7	GOM_NL__2PRFIN20110507_002008_000000353102_00160_48019_3811.N1	07-MAY-2011 00:20:08	Twilight	35.000	67	5Alp CrB	2.2210	11000.	70	48019	No
8	GOM_NL__2PRFIN20110507_002146_000000383102_00160_48019_3812.N1	07-MAY-2011 00:21:46	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	48019	No
9	GOM_NL__2PRFIN20110507_002420_000000353102_00160_48019_3813.N1	07-MAY-2011 00:24:20	Bright	35.000	39	85Eta UMa	1.8540	24000.	70	48019	No
10	GOM_NL__2PRFIN20110507_003058_000000403102_00160_48019_3814.N1	07-MAY-2011 00:30:58	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	48019	No
11	GOM_NL__2PRFIN20110507_004139_000000453102_00160_48019_3815.N1	07-MAY-2011 00:41:39	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	48019	No
12	GOM_NL__2PRFIN20110507_004428_000000543102_00160_48019_3816.N1	07-MAY-2011 00:44:28	Bright	54.000	74	11Bet Cas	2.2680	6600.0	108	48019	No
13	GOM_NL__2PRFIN20110507_005413_000000513102_00160_48019_3817.N1	07-MAY-2011 00:54:13	Twilight	51.000	93	53Bet Peg	2.5200	3100.0	102	48019	No
14	GOM_NL__2PRFIN20110507_005825_000000493102_00160_48019_3818.N1	07-MAY-2011 00:58:25	Dark	48.500	90	54Alp Peg	2.4870	11000.	97	48019	No
15	GOM_NL__2PRFIN20110507_011131_000000473102_00160_48019_3819.N1	07-MAY-2011 01:11:31	Dark	46.500	18	24Alp PsA	1.1660	9700.0	93	48019	No
16	GOM_NL__2PRFIN20110507_011720_000000423102_00160_48019_3820.N1	07-MAY-2011 01:17:20	Dark	41.500	31	Alp Gru	1.7340	15200.	83	48019	No
17	GOM_NL__2PRFIN20110507_012253_000000423102_00161_48020_3867.N1	07-MAY-2011 01:22:53	Dark	41.500	45	Alp Pav	1.9400	26000.	83	48020	No
18	GOM_NL__2PRFIN20110507_013022_000000423102_00161_48020_3868.N1	07-MAY-2011 01:30:22	Straylight	42.000	141	Bet Ara	2.8400	4600.0	84	48020	No
19	GOM_NL__2PRFIN20110507_013233_000000573102_00161_48020_3869.N1	07-MAY-2011 01:32:33	Straylight	56.500	40	The Sco	1.8590	7100.0	113	48020	No
20	GOM_NL__2PRFIN20110507_013423_000000593102_00161_48020_3870.N1	07-MAY-2011 01:34:23	Straylight	58.500	25	35Lam Sco	1.6200	28000.	117	48020	No
21	GOM_NL__2PRFIN20110507_013708_000000583102_00161_48020_3871.N1	07-MAY-2011 01:37:08	Straylight	57.500	75	26Eps Sco	2.2910	4250.0	115	48020	No
22	GOM_NL__2PRFIN20110507_014033_000000663102_00161_48020_3872.N1	07-MAY-2011 01:40:33	Twilight	66.000	16	21Alp Sco	1.0200	3000.0	132	48020	No
23	GOM_NL__2PRFIN20110507_014231_000000583102_00161_48020_3873.N1	07-MAY-2011 01:42:31	Twilight	58.000	80	7Del Sco	2.3160	30000.	116	48020	No
24	GOM_NL__2PRFIN20110507_014526_000000423102_00161_48020_3874.N1	07-MAY-2011 01:45:26	Bright	42.000	122	9Alp2Lib	2.7470	9700.0	84	48020	No
25	GOM_NL__2PRFIN20110507_014729_000000443102_00161_48020_3875.N1	07-MAY-2011 01:47:29	Bright	44.000	104	27Bet Lib	2.6140	13100.	88	48020	No
26	GOM_NL__2PRFIN20110507_015545_000000373102_00161_48020_3876.N1	07-MAY-2011 01:55:45	Bright	37.000	111	8Eta Boo	2.6800	6000.0	74	48020	No
27	GOM_NL__2PRFIN20110507_015855_000000453102_00161_48020_3877.N1	07-MAY-2011 01:58:55	Bright	44.500	83		2.3780	11000.	89	48020	No
28	GOM_NL__2PRFIN20110507_020021_000000423102_00161_48020_3878.N1	07-MAY-2011 02:00:21	Bright	42.000	67	5Alp CrB	2.2210	11000.	84	48020	No
29	GOM_NL__2PRFIN20110507_020200_000000403102_00161_48020_3879.N1	07-MAY-2011 02:02:00	Bright	39.500	180	27Gam Boo	3.0400	8000.0	79	48020	No
30	GOM_NL__2PRFIN20110507_020434_000000363102_00161_48020_3880.N1	07-MAY-2011 02:04:34	Bright	36.000	39	85Eta UMa	1.8540	24000.	72	48020	No
31	GOM_NL__2PRFIN20110507_021111_000000443102_00161_48020_3881.N1	07-MAY-2011 02:11:11	Bright	44.000	119	14Eta Dra	2.7270	4700.0	88	48020	No
32	GOM_NL__2PRFIN20110507_022152_000000443102_00161_48020_3882.N1	07-MAY-2011 02:21:52	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	48020	No
33	GOM_NL__2PRFIN20110507_022441_000000353102_00161_48020_3883.N1	07-MAY-2011 02:24:41	Bright	34.500	74	11Bet Cas	2.2680	6600.0	69	48020	No
34	GOM_NL__2PRFIN20110507_023427_000000613102_00161_48020_3884.N1	07-MAY-2011 02:34:27	Twilight	60.500	93	53Bet Peg	2.5200	3100.0	121	48020	No
35	GOM_NL__2PRFIN20110507_023840_000000483102_00161_48020_3885.N1	07-MAY-2011 02:38:40	Dark	47.500	90	54Alp Peg	2.4870	11000.	95	48020	No
36	GOM_NL__2PRFIN20110507_025145_000000463102_00161_48020_3886.N1	07-MAY-2011 02:51:45	Dark	45.500	18	24Alp PsA	1.1660	9700.0	91	48020	No
37	GOM_NL__2PRFIN20110507_025734_000000443102_00161_48020_3887.N1	07-MAY-2011 02:57:34	Dark	44.000	31	Alp Gru	1.7340	15200.	88	48020	No
38	GOM_NL__2PRFIN20110507_030308_000000413102_00162_48021_3867.N1	07-MAY-2011 03:03:08	Dark	41.000	45	Alp Pav	1.9400	26000.	82	48021	No
39	GOM_NL__2PRFIN20110507_031036_000000463102_00162_48021_3868.N1	07-MAY-2011 03:10:36	Straylight	45.500	141	Bet Ara	2.8400	4600.0	91	48021	No
40	GOM_NL__2PRFIN20110507_031248_000000553102_00162_48021_3869.N1	07-MAY-2011 03:12:48	Straylight	54.500	40	The Sco	1.8590	7100.0	109	48021	No
41	GOM_NL__2PRFIN20110507_031438_000000593102_00162_48021_3870.N1	07-MAY-2011 03:14:38	Straylight	58.500	25	35Lam Sco	1.6200	28000.	117	48021	No
42	GOM_NL__2PRFIN20110507_031722_000000573102_00162_48021_3871.N1	07-MAY-2011 03:17:22	Straylight	56.500	75	26Eps Sco	2.2910	4250.0	113	48021	No

279	GOM_NL__2PRFIN20110507_223717_000000513102_00173_48032_4650.N1	07-MAY-2011 22:37:17	Twilight	51.000	93	53Bet Peg	2.5200	3100.0	102	48032	No
280	GOM_NL__2PRFIN20110507_224132_000000483102_00173_48032_4651.N1	07-MAY-2011 22:41:32	Dark	47.500	90	54Alp Peg	2.4870	11000.	95	48032	No
281	GOM_NL__2PRFIN20110507_225441_000000473102_00173_48032_4652.N1	07-MAY-2011 22:54:41	Dark	46.500	18	24Alp PsA	1.1660	9700.0	93	48032	No
282	GOM_NL__2PRFIN20110507_230030_000000463102_00173_48032_4653.N1	07-MAY-2011 23:00:30	Dark	46.000	31	Alp Gru	1.7340	15200.	92	48032	No
283	GOM_NL__2PRFIN20110507_230604_000000433102_00174_48033_4634.N1	07-MAY-2011 23:06:04	Dark	42.500	45	Alp Pav	1.9400	26000.	85	48033	No
284	GOM_NL__2PRFIN20110507_231331_000000433102_00174_48033_4635.N1	07-MAY-2011 23:13:31	Straylight	42.500	141	Bet Ara	2.8400	4600.0	85	48033	No
285	GOM_NL__2PRFIN20110507_231545_000000543102_00174_48033_4636.N1	07-MAY-2011 23:15:45	Straylight	54.000	40	The Sco	1.8590	7100.0	108	48033	No
286	GOM_NL__2PRFIN20110507_231735_000000593102_00174_48033_4637.N1	07-MAY-2011 23:17:35	Straylight	58.500	25	35Lam Sco	1.6200	28000.	117	48033	No
287	GOM_NL__2PRFIN20110507_232017_000000583102_00174_48033_4638.N1	07-MAY-2011 23:20:17	Straylight	58.000	75	26Eps Sco	2.2910	4250.0	116	48033	No
288	GOM_NL__2PRFIN20110507_232340_000000613102_00174_48033_4639.N1	07-MAY-2011 23:23:40	Twilight	60.500	16	21Alp Sco	1.0200	3000.0	121	48033	No
289	GOM_NL__2PRFIN20110507_232537_000000543102_00174_48033_4640.N1	07-MAY-2011 23:25:37	Twilight	54.000	80	7Del Sco	2.3160	30000.	108	48033	No
290	GOM_NL__2PRFIN20110507_232829_000000413102_00174_48033_4641.N1	07-MAY-2011 23:28:29	Bright	41.000	122	9Alp2Lib	2.7470	9700.0	82	48033	No
291	GOM_NL__2PRFIN20110507_233031_000000433102_00174_48033_4642.N1	07-MAY-2011 23:30:31	Bright	43.000	104	27Bet Lib	2.6140	13100.	86	48033	No
292	GOM_NL__2PRFIN20110507_233846_000000373102_00174_48033_4643.N1	07-MAY-2011 23:38:46	Bright	36.500	111	8Eta Boo	2.6800	6000.0	73	48033	No
293	GOM_NL__2PRFIN20110507_234153_000000413102_00174_48033_4644.N1	07-MAY-2011 23:41:53	Bright	41.000	83		2.3780	11000.	82	48033	No
294	GOM_NL__2PRFIN20110507_234458_000000583102_00174_48033_4645.N1	07-MAY-2011 23:44:58	Bright	58.000	180	27Gam Boo	3.0400	8000.0	116	48033	No
295	GOM_NL__2PRFIN20110507_234734_000000353102_00174_48033_4646.N1	07-MAY-2011 23:47:34	Bright	35.000	39	85Eta UMa	1.8540	24000.	70	48033	No
296	GOM_NL__2PRFIN20110507_235406_000000443102_00174_48033_4647.N1	07-MAY-2011 23:54:06	Bright	44.000	119	14Eta Dra	2.7270	4700.0	88	48033	No

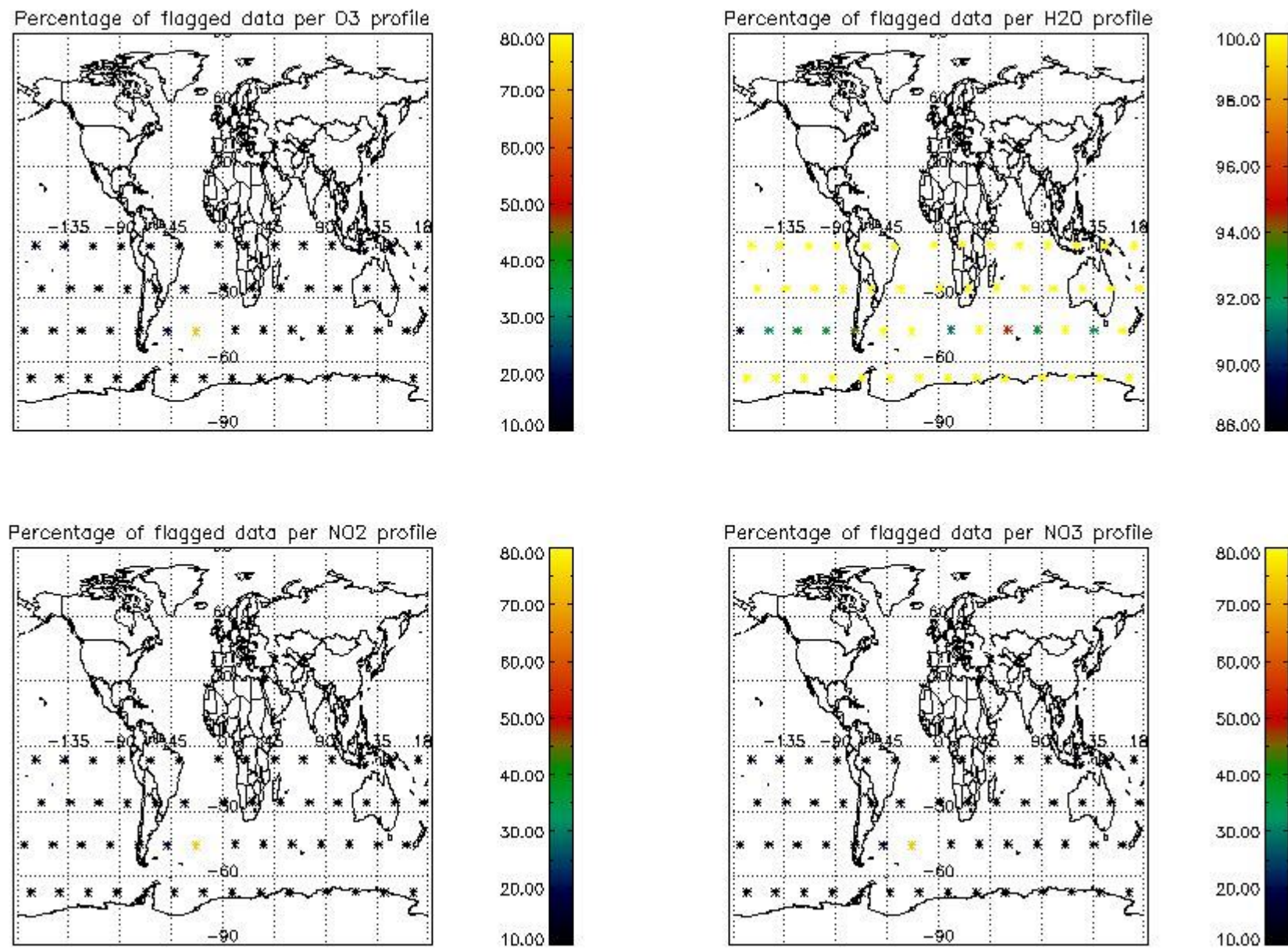
3. Quality information per product

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)

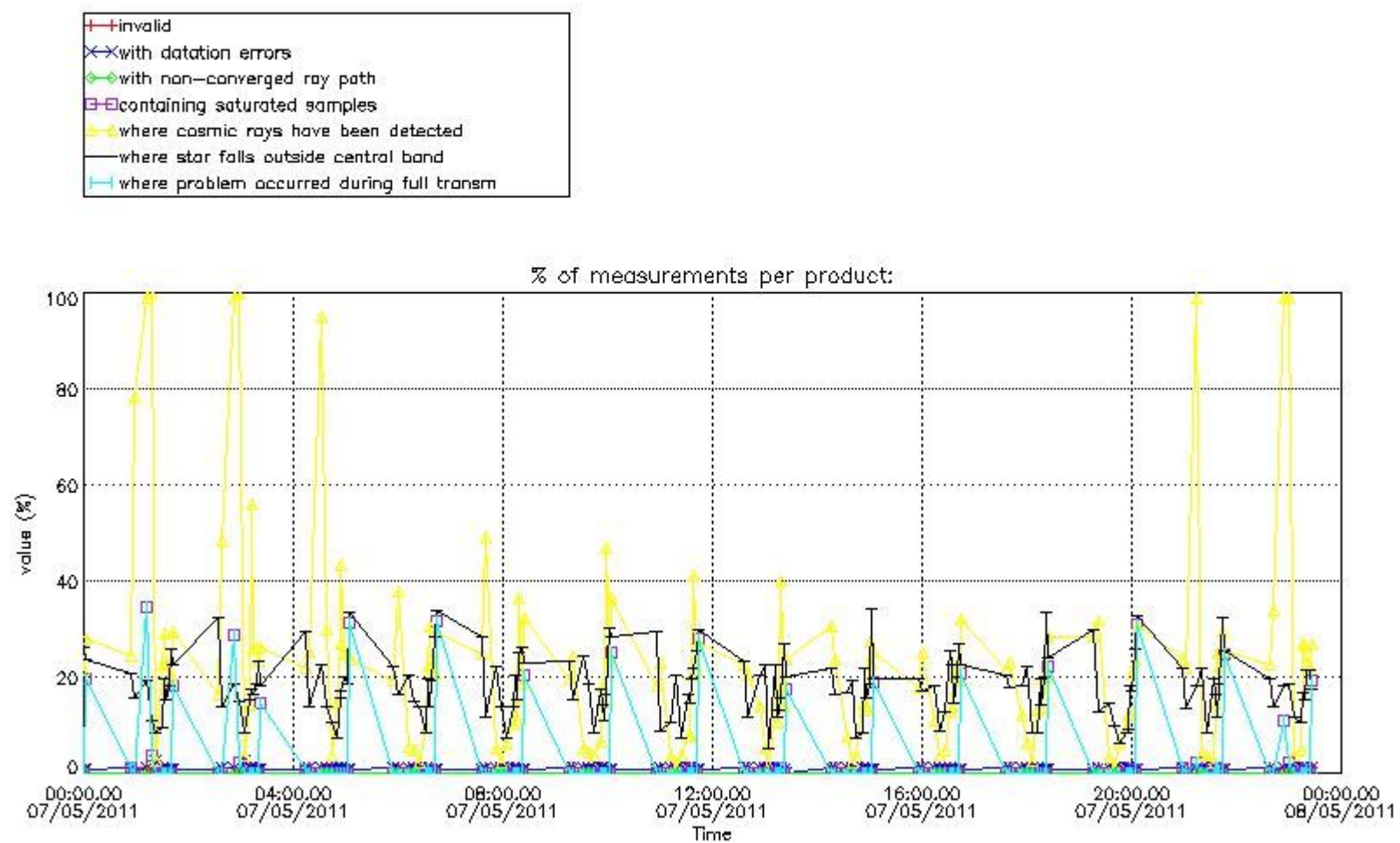


4. Level 1 quality information per product

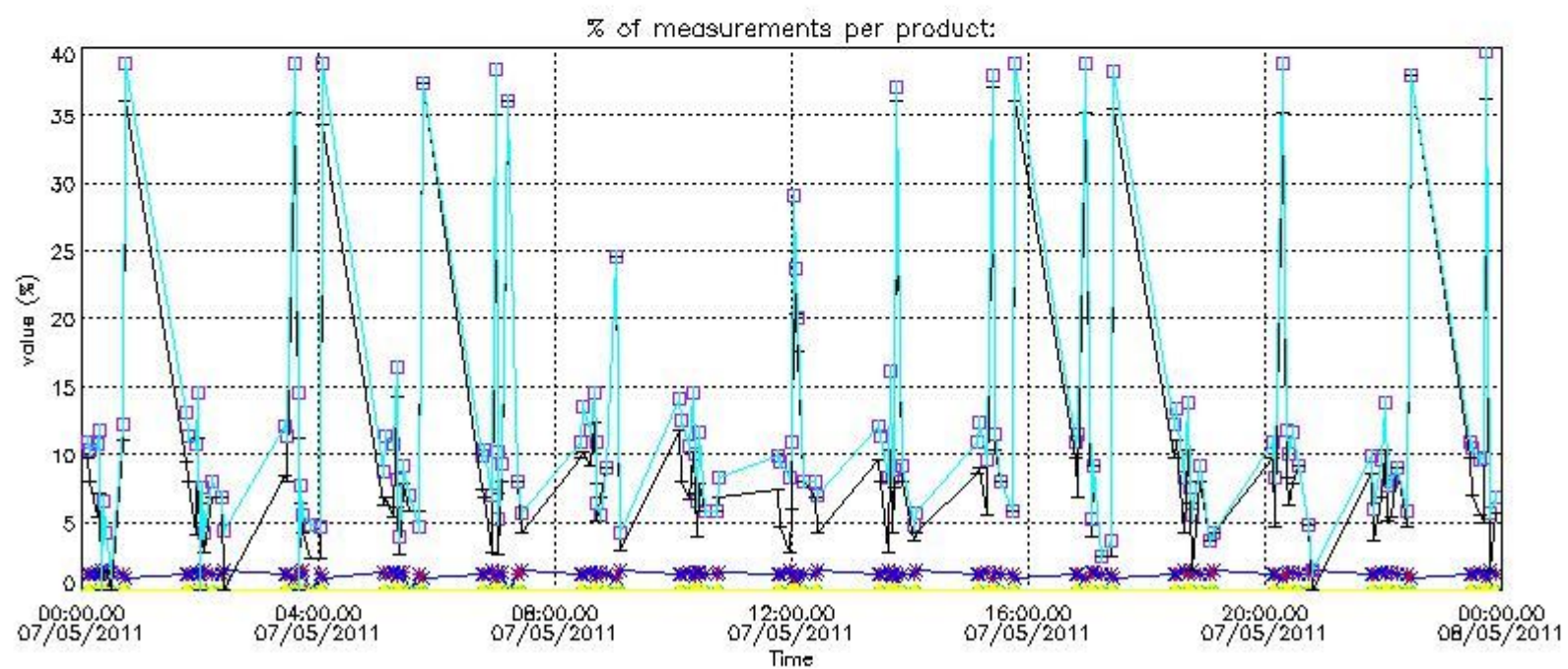
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

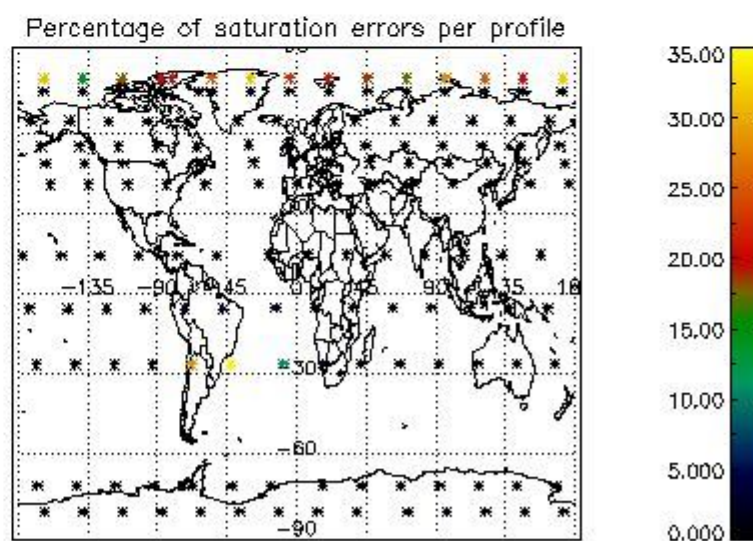
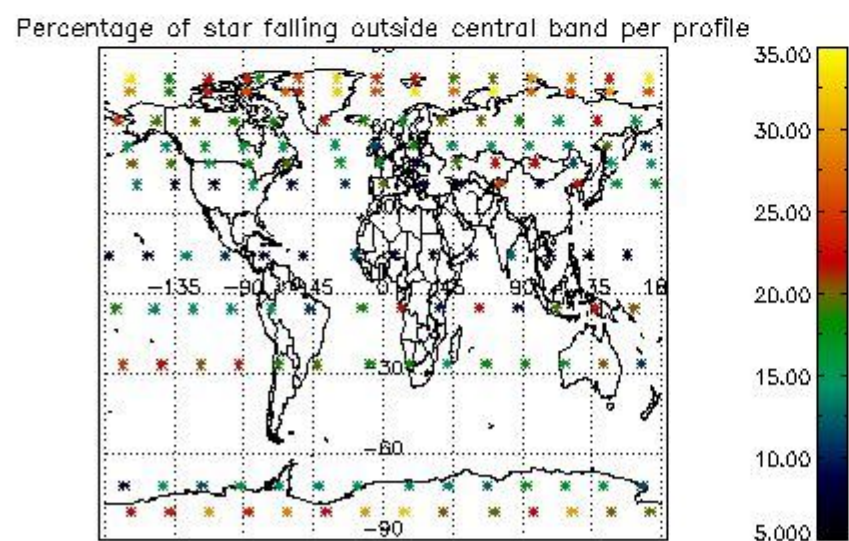
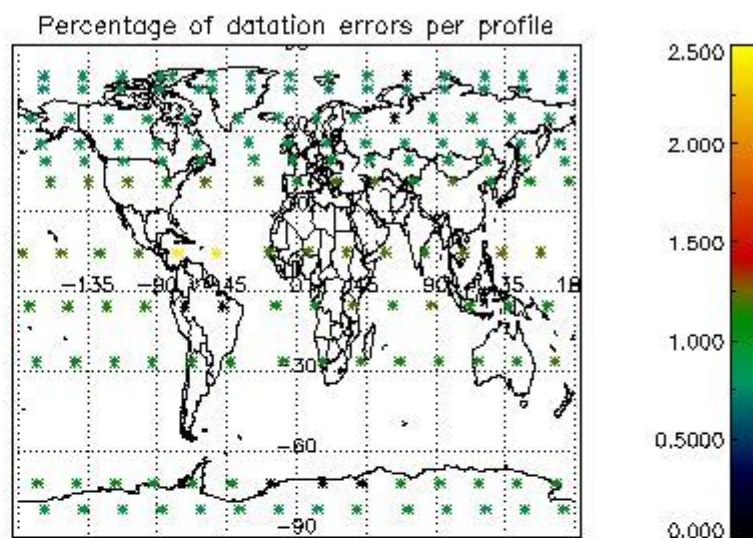
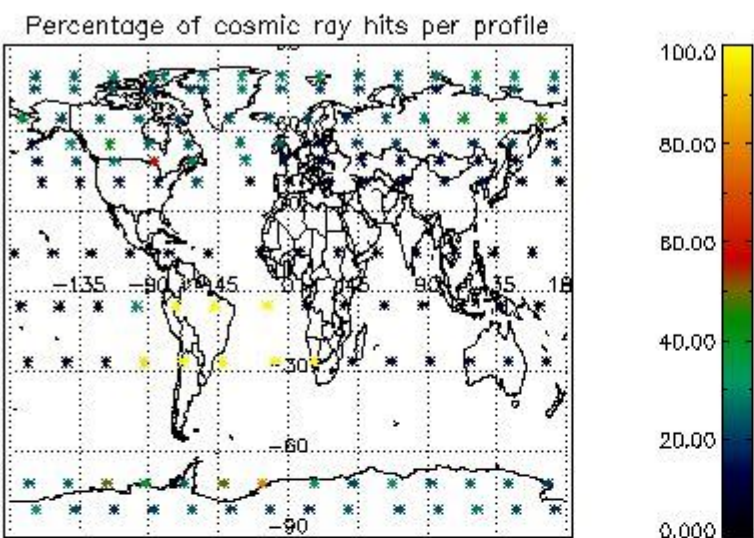


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

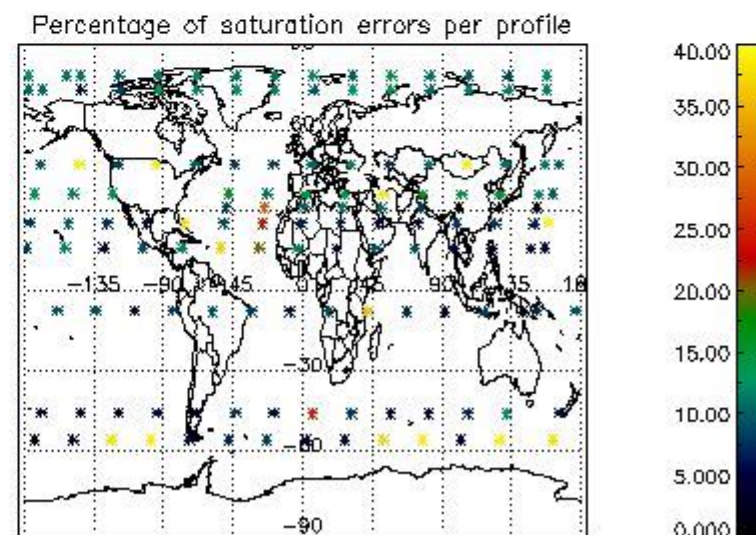
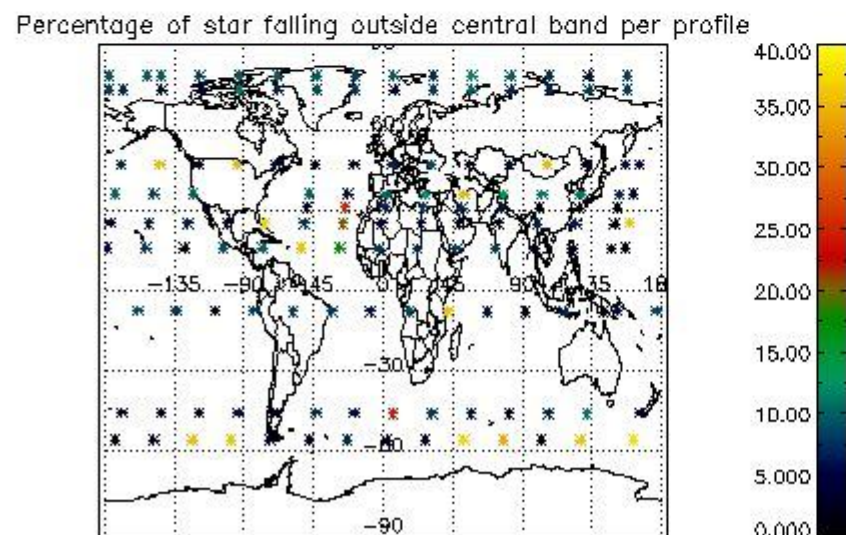
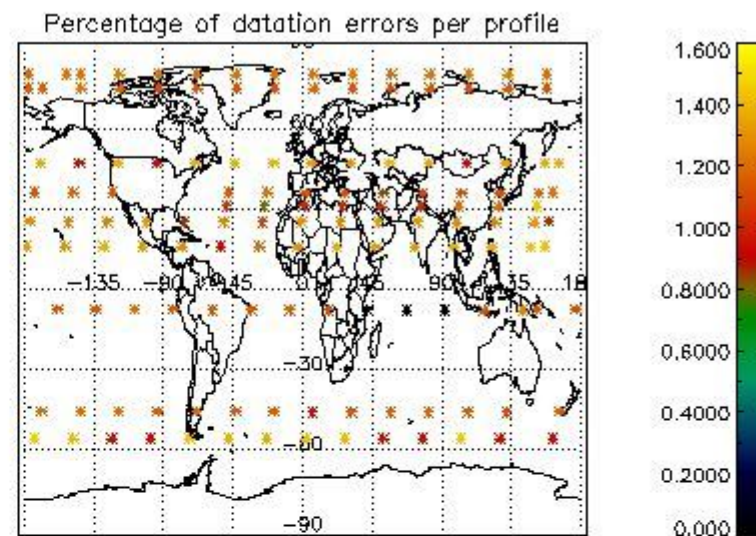
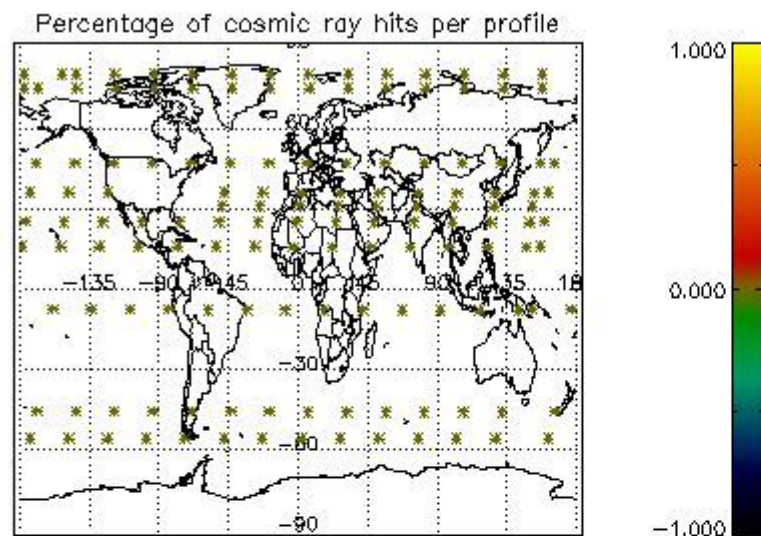


4.2 Plot quality information per product coming from level 1b processing (world map)

4.2.1 Plot level 1 quality information per product (world map): ENVI SAT 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

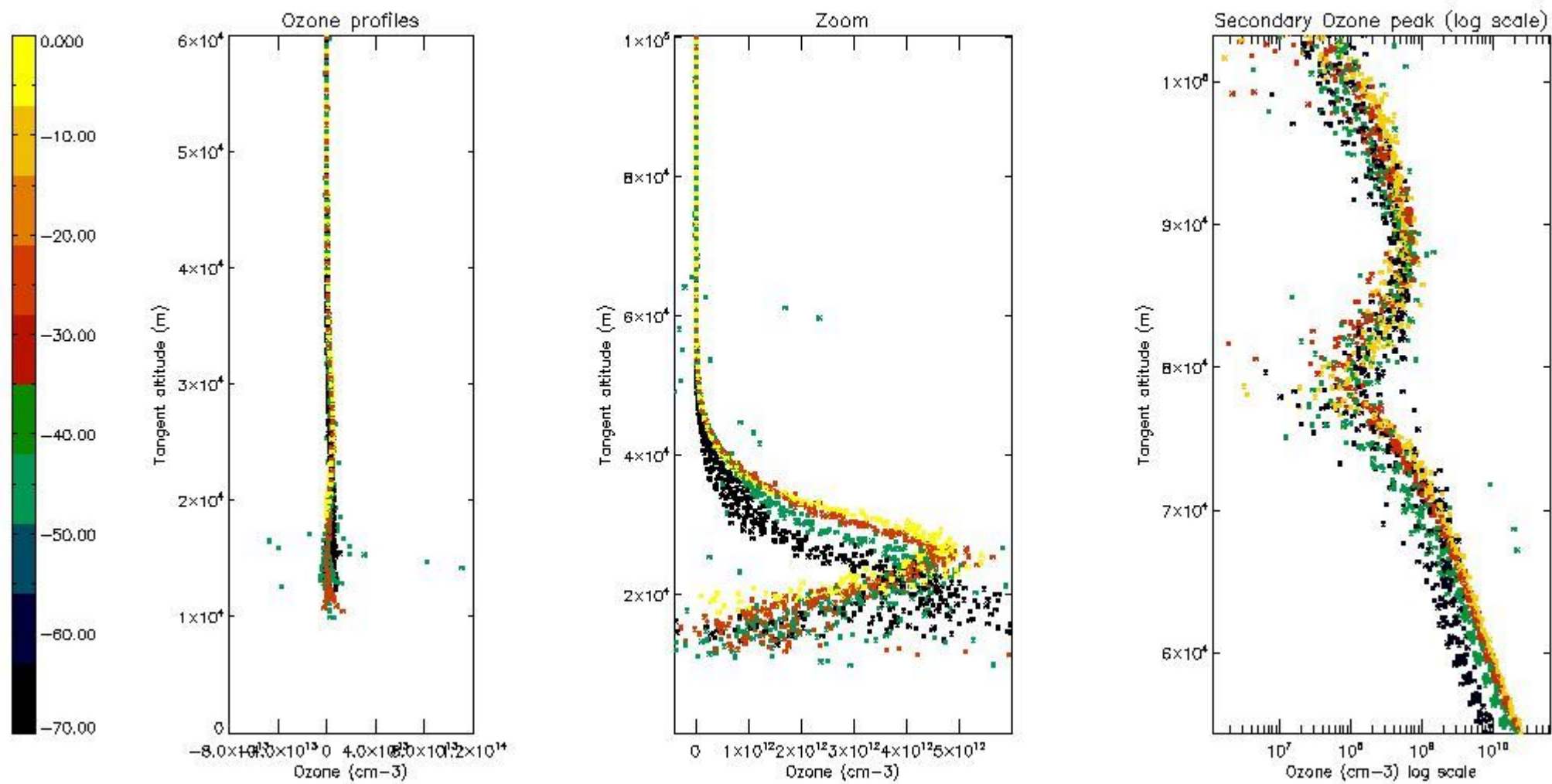
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	18
STD < 20	11

STD < 10	8
STD < 5	5

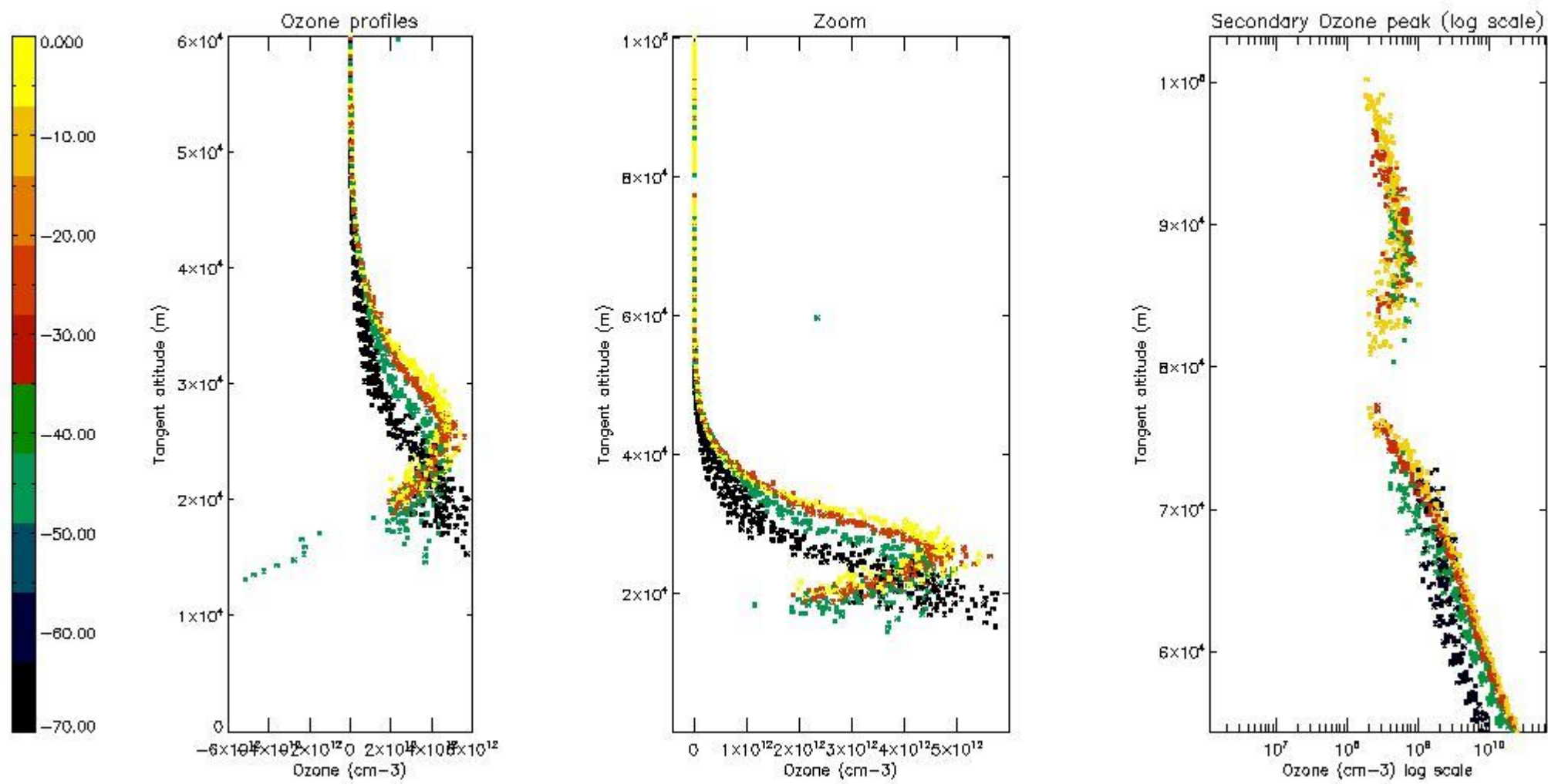
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



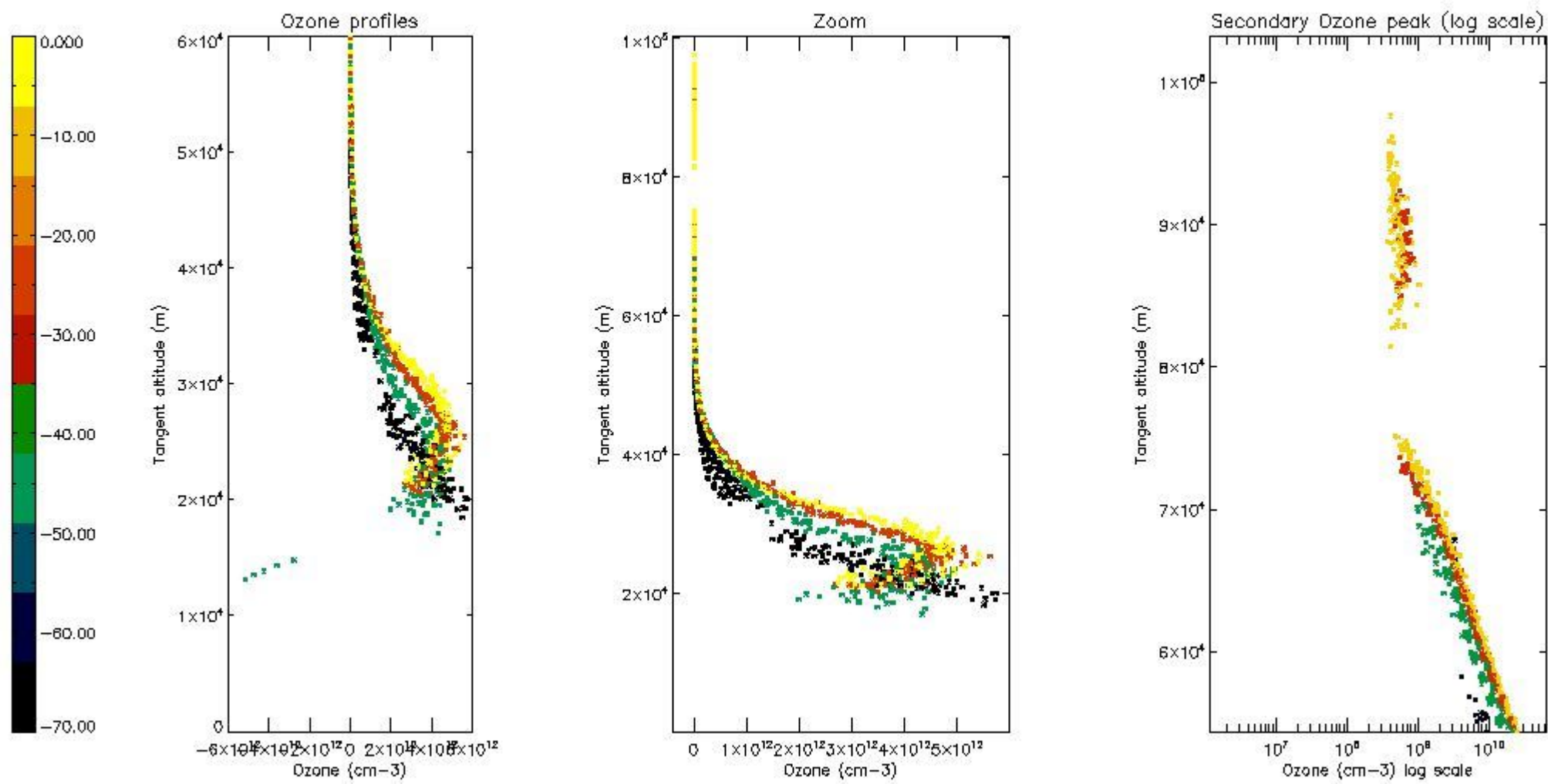
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



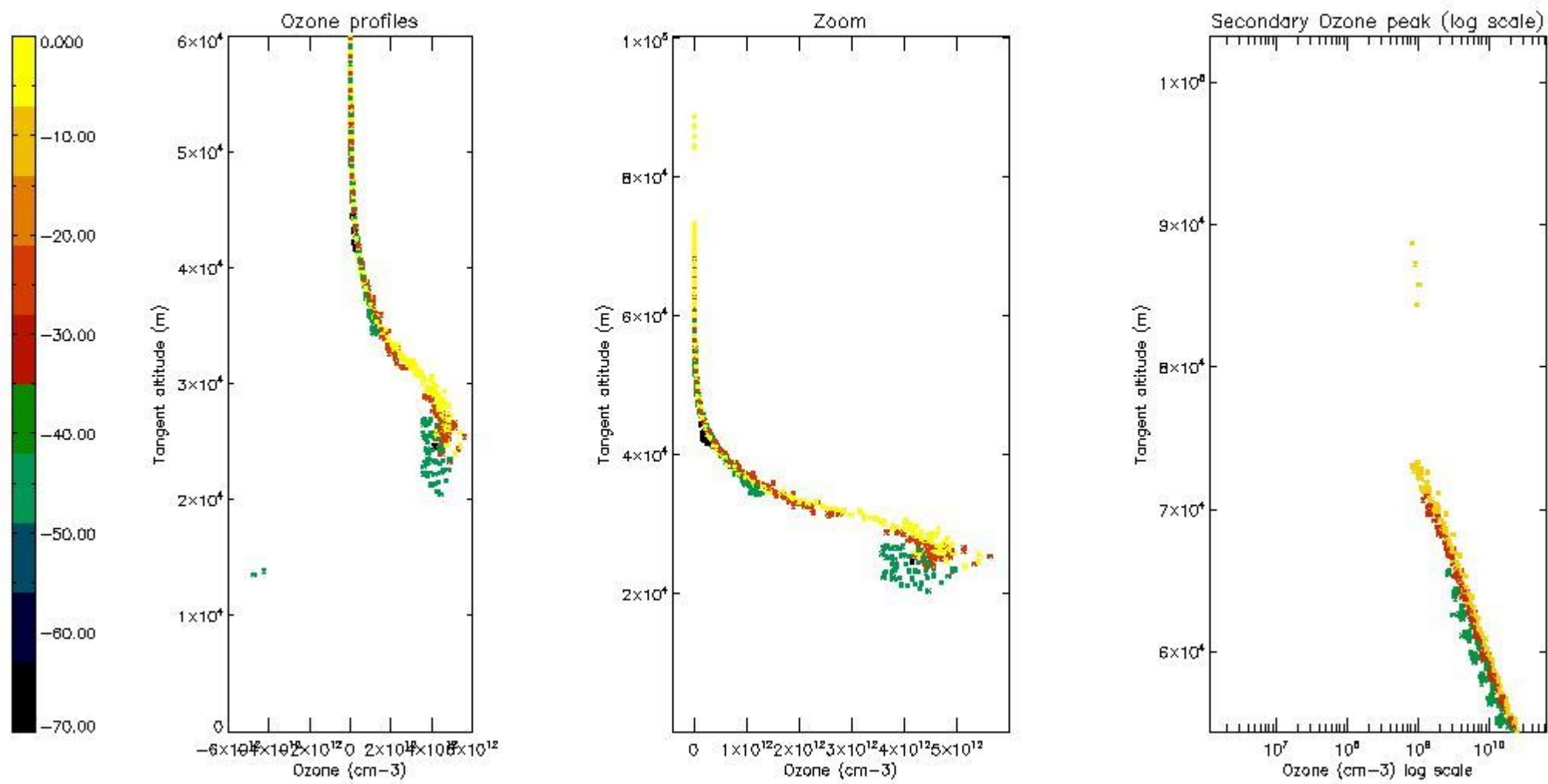
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



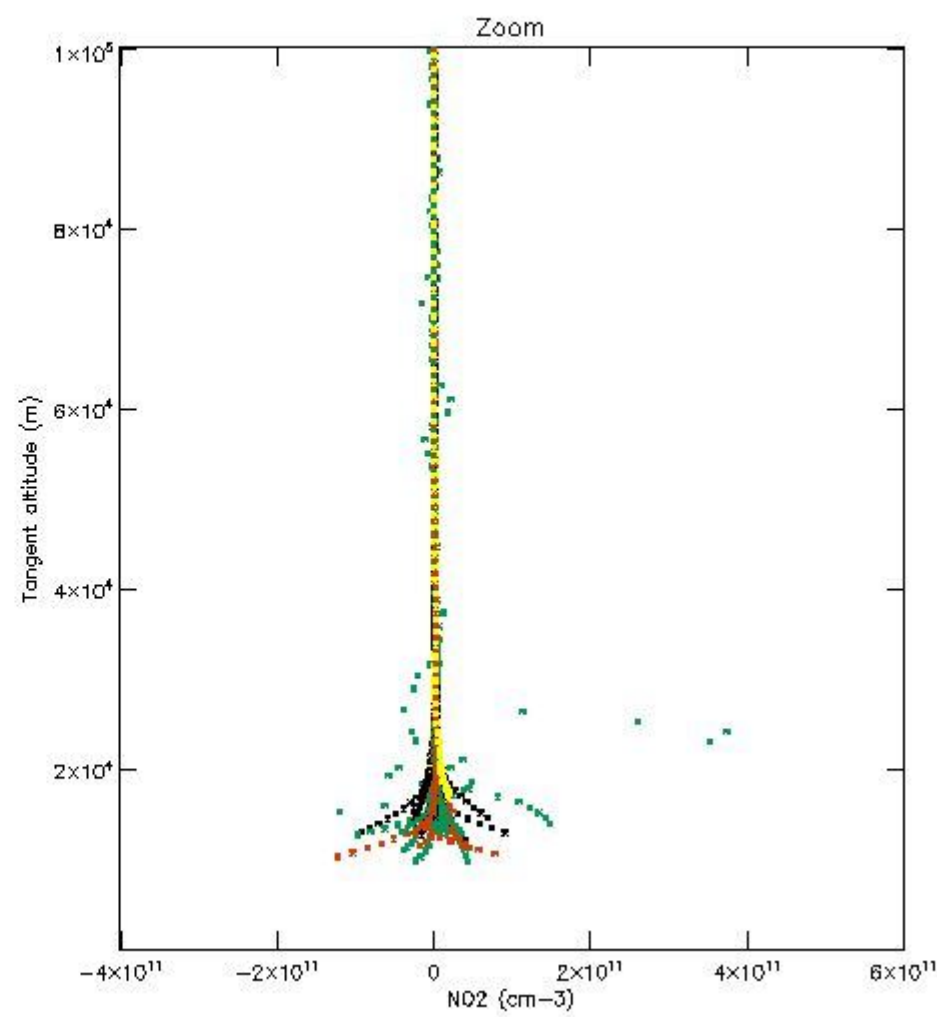
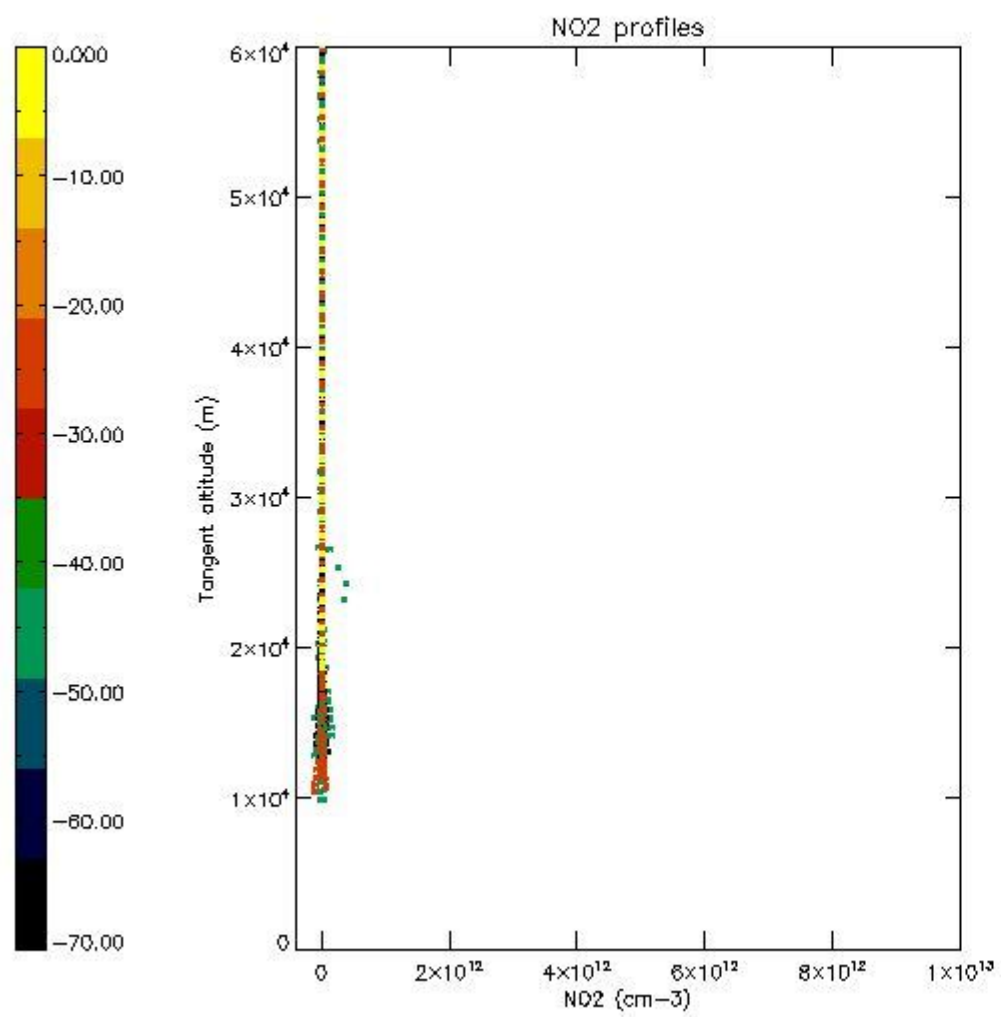
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



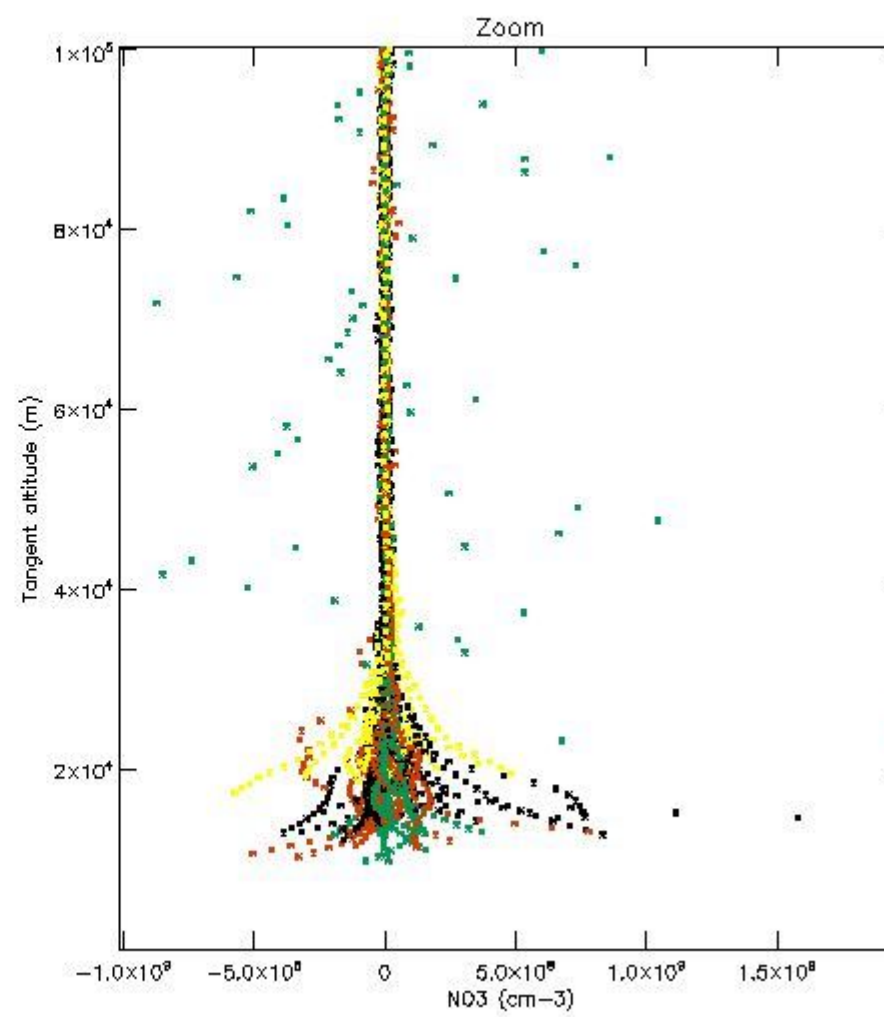
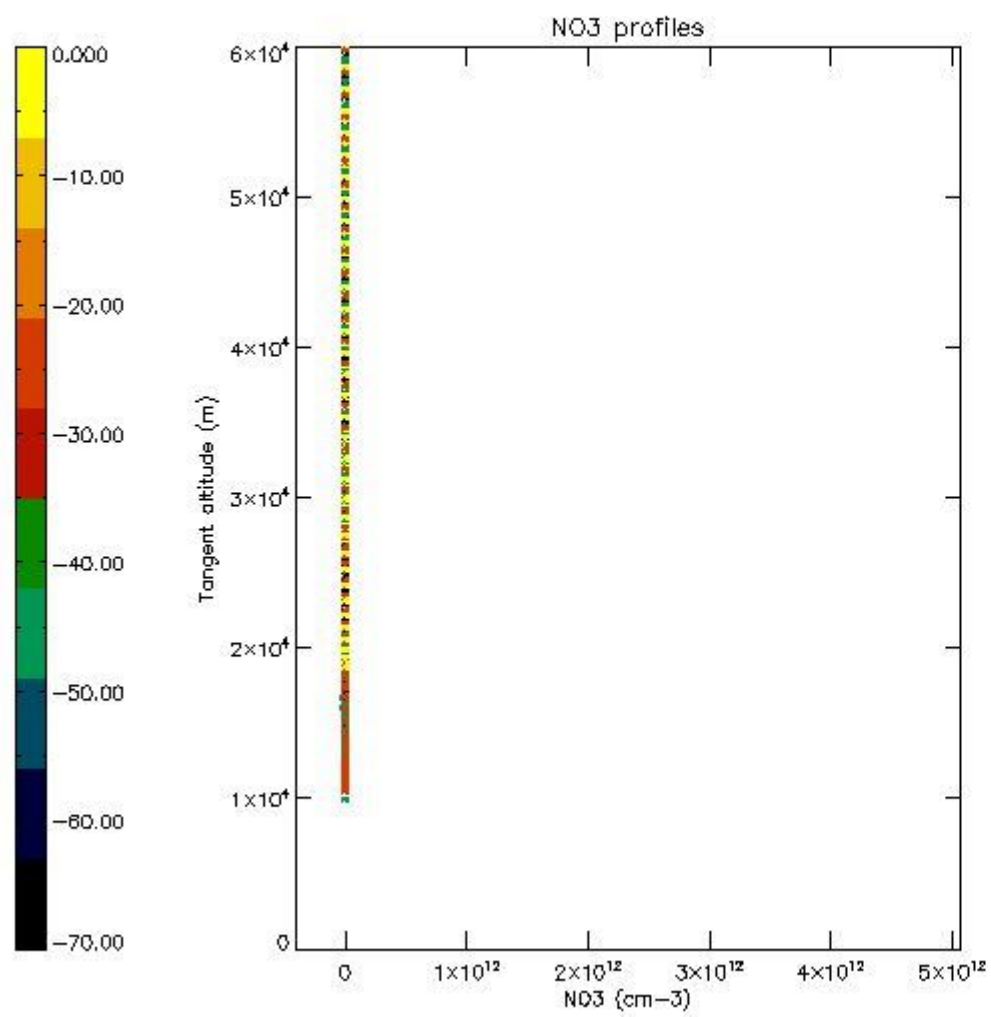
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



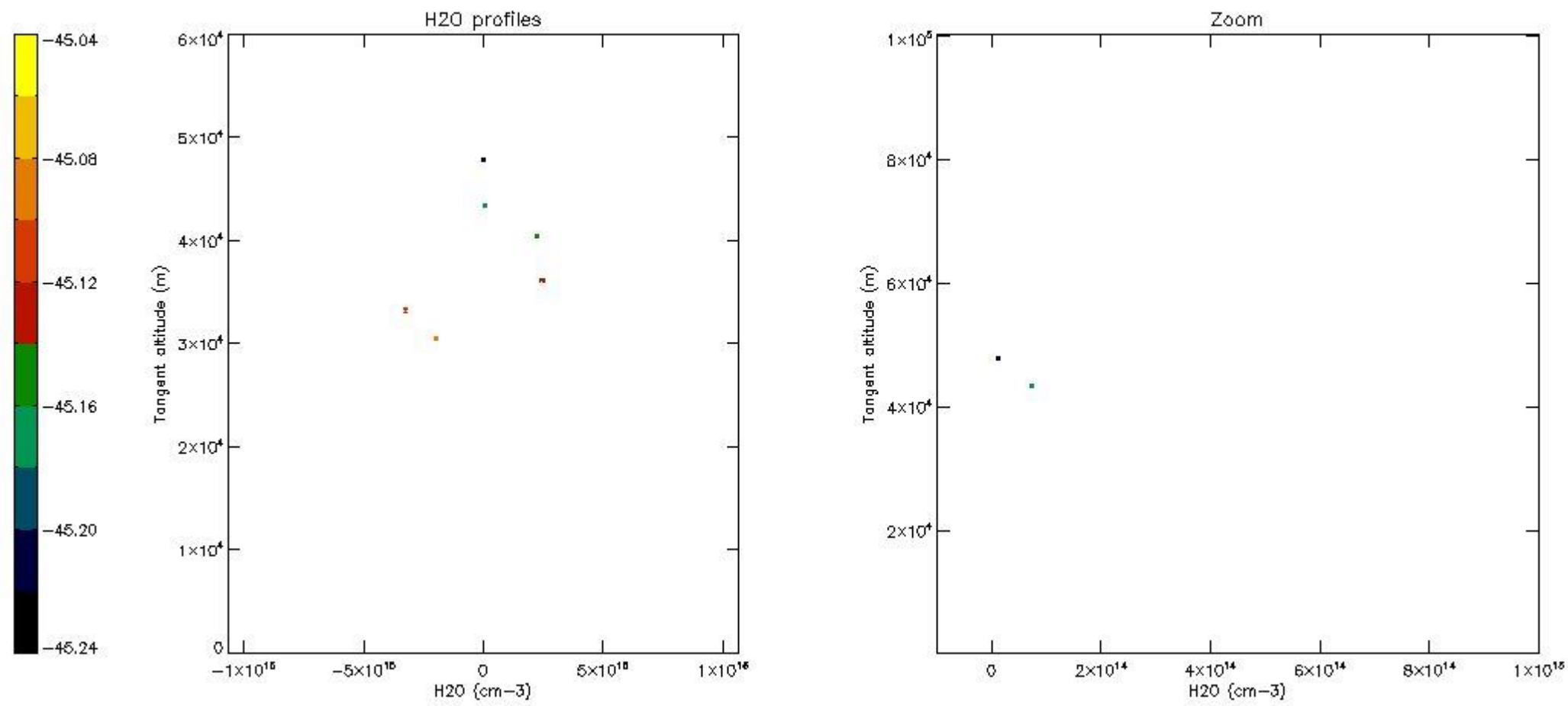
5.7 Plot NO3 profiles for all STD (dark without errors)

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	07-MAY-2011 00:00:18
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	07-MAY-2011 00:00:18
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	07-MAY-2011 00:00:18

GOMOS Level 2 Daily Report

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

Item	Value
Time of report generation	24APR2013 13:19:16
Data source version	GOMOS/6.01
Start time of products	07-05-2011 (07MAY2011 00:00:00)
Stop time of products	08-05-2011 (08MAY2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	296
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

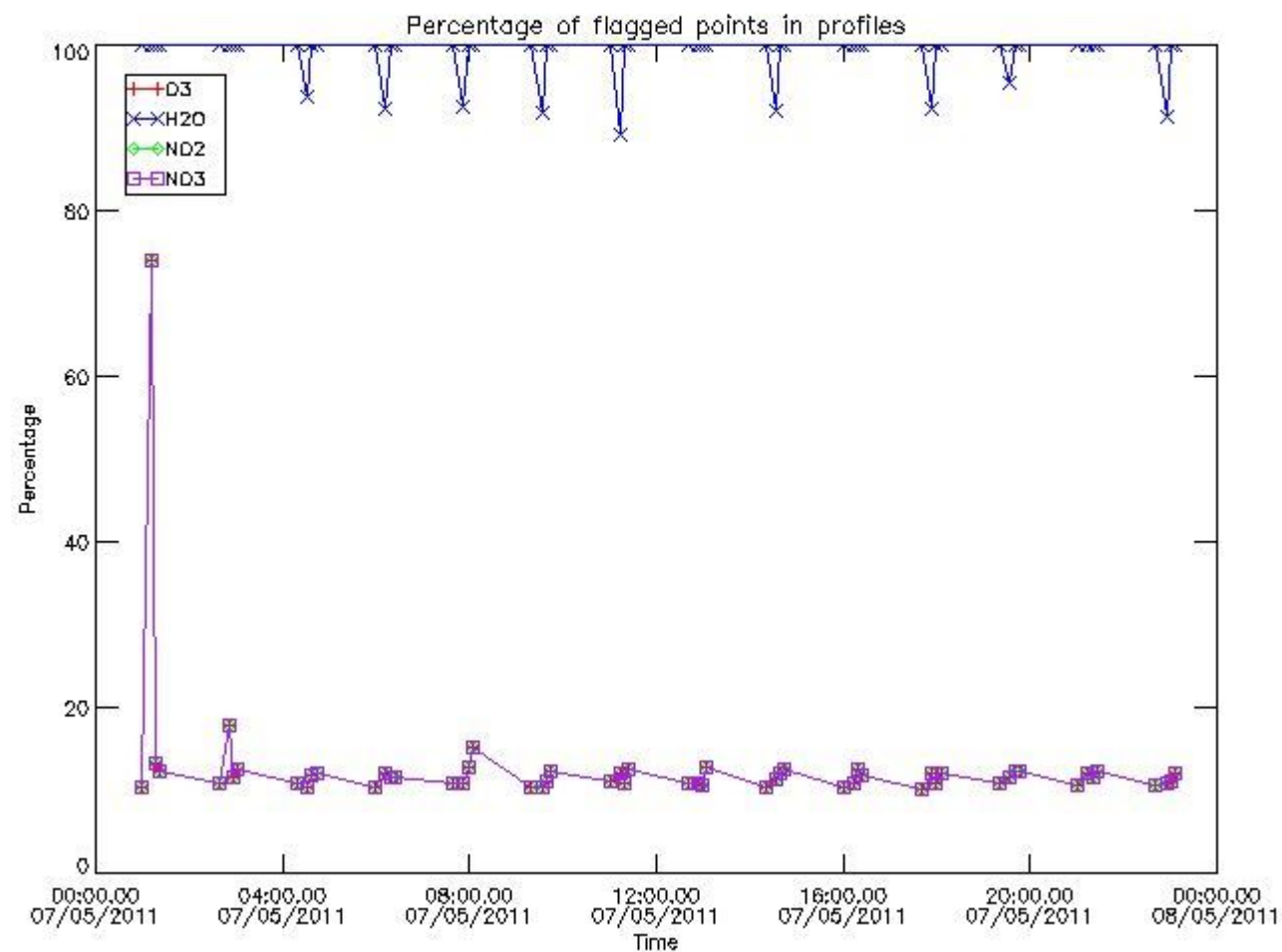
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110507_000018_000000653102_00160_48019_3805.N1	07-MAY-2011 00:00:18	Twilight	65.000	16	21Alp Sco	1.0200	3000.0	130	48019	No
2	GOM_NL__2PRFIN20110507_000217_000000593102_00160_48019_3806.N1	07-MAY-2011 00:02:17	Twilight	59.000	80	7Del Sco	2.3160	30000.	118	48019	No
3	GOM_NL__2PRFIN20110507_000512_000000413102_00160_48019_3807.N1	07-MAY-2011 00:05:12	Bright	41.000	122	9Alp2Lib	2.7470	9700.0	82	48019	No
4	GOM_NL__2PRFIN20110507_000715_000000443102_00160_48019_3808.N1	07-MAY-2011 00:07:15	Bright	43.500	104	27Bet Lib	2.6140	13100.	87	48019	No
5	GOM_NL__2PRFIN20110507_001531_000000373102_00160_48019_3809.N1	07-MAY-2011 00:15:31	Bright	37.000	111	8Eta Boo	2.6800	6000.0	74	48019	No
6	GOM_NL__2PRFIN20110507_001842_000000433102_00160_48019_3810.N1	07-MAY-2011 00:18:42	Bright	42.500	83		2.3780	11000.	85	48019	No
7	GOM_NL__2PRFIN20110507_002008_000000353102_00160_48019_3811.N1	07-MAY-2011 00:20:08	Twilight	35.000	67	5Alp CrB	2.2210	11000.	70	48019	No
8	GOM_NL__2PRFIN20110507_002146_000000383102_00160_48019_3812.N1	07-MAY-2011 00:21:46	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	48019	No
9	GOM_NL__2PRFIN20110507_002420_000000353102_00160_48019_3813.N1	07-MAY-2011 00:24:20	Bright	35.000	39	85Eta UMa	1.8540	24000.	70	48019	No
10	GOM_NL__2PRFIN20110507_003058_000000403102_00160_48019_3814.N1	07-MAY-2011 00:30:58	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	48019	No
11	GOM_NL__2PRFIN20110507_004139_000000453102_00160_48019_3815.N1	07-MAY-2011 00:41:39	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	48019	No
12	GOM_NL__2PRFIN20110507_004428_000000543102_00160_48019_3816.N1	07-MAY-2011 00:44:28	Bright	54.000	74	11Bet Cas	2.2680	6600.0	108	48019	No
13	GOM_NL__2PRFIN20110507_005413_000000513102_00160_48019_3817.N1	07-MAY-2011 00:54:13	Twilight	51.000	93	53Bet Peg	2.5200	3100.0	102	48019	No
14	GOM_NL__2PRFIN20110507_005825_000000493102_00160_48019_3818.N1	07-MAY-2011 00:58:25	Dark	48.500	90	54Alp Peg	2.4870	11000.	97	48019	No
15	GOM_NL__2PRFIN20110507_011131_000000473102_00160_48019_3819.N1	07-MAY-2011 01:11:31	Dark	46.500	18	24Alp PsA	1.1660	9700.0	93	48019	No
16	GOM_NL__2PRFIN20110507_011720_000000423102_00160_48019_3820.N1	07-MAY-2011 01:17:20	Dark	41.500	31	Alp Gru	1.7340	15200.	83	48019	No
17	GOM_NL__2PRFIN20110507_012253_000000423102_00161_48020_3867.N1	07-MAY-2011 01:22:53	Dark	41.500	45	Alp Pav	1.9400	26000.	83	48020	No
18	GOM_NL__2PRFIN20110507_013022_000000423102_00161_48020_3868.N1	07-MAY-2011 01:30:22	Straylight	42.000	141	Bet Ara	2.8400	4600.0	84	48020	No
19	GOM_NL__2PRFIN20110507_013233_000000573102_00161_48020_3869.N1	07-MAY-2011 01:32:33	Straylight	56.500	40	The Sco	1.8590	7100.0	113	48020	No
20	GOM_NL__2PRFIN20110507_013423_000000593102_00161_48020_3870.N1	07-MAY-2011 01:34:23	Straylight	58.500	25	35Lam Sco	1.6200	28000.	117	48020	No
21	GOM_NL__2PRFIN20110507_013708_000000583102_00161_48020_3871.N1	07-MAY-2011 01:37:08	Straylight	57.500	75	26Eps Sco	2.2910	4250.0	115	48020	No
22	GOM_NL__2PRFIN20110507_014033_000000663102_00161_48020_3872.N1	07-MAY-2011 01:40:33	Twilight	66.000	16	21Alp Sco	1.0200	3000.0	132	48020	No
23	GOM_NL__2PRFIN20110507_014231_000000583102_00161_48020_3873.N1	07-MAY-2011 01:42:31	Twilight	58.000	80	7Del Sco	2.3160	30000.	116	48020	No
24	GOM_NL__2PRFIN20110507_014526_000000423102_00161_48020_3874.N1	07-MAY-2011 01:45:26	Bright	42.000	122	9Alp2Lib	2.7470	9700.0	84	48020	No
25	GOM_NL__2PRFIN20110507_014729_000000443102_00161_48020_3875.N1	07-MAY-2011 01:47:29	Bright	44.000	104	27Bet Lib	2.6140	13100.	88	48020	No
26	GOM_NL__2PRFIN20110507_015545_000000373102_00161_48020_3876.N1	07-MAY-2011 01:55:45	Bright	37.000	111	8Eta Boo	2.6800	6000.0	74	48020	No
27	GOM_NL__2PRFIN20110507_015855_000000453102_00161_48020_3877.N1	07-MAY-2011 01:58:55	Bright	44.500	83		2.3780	11000.	89	48020	No
28	GOM_NL__2PRFIN20110507_020021_000000423102_00161_48020_3878.N1	07-MAY-2011 02:00:21	Bright	42.000	67	5Alp CrB	2.2210	11000.	84	48020	No
29	GOM_NL__2PRFIN20110507_020200_000000403102_00161_48020_3879.N1	07-MAY-2011 02:02:00	Bright	39.500	180	27Gam Boo	3.0400	8000.0	79	48020	No
30	GOM_NL__2PRFIN20110507_020434_000000363102_00161_48020_3880.N1	07-MAY-2011 02:04:34	Bright	36.000	39	85Eta UMa	1.8540	24000.	72	48020	No
31	GOM_NL__2PRFIN20110507_021111_000000443102_00161_48020_3881.N1	07-MAY-2011 02:11:11	Bright	44.000	119	14Eta Dra	2.7270	4700.0	88	48020	No
32	GOM_NL__2PRFIN20110507_022152_000000443102_00161_48020_3882.N1	07-MAY-2011 02:21:52	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	48020	No
33	GOM_NL__2PRFIN20110507_022441_000000353102_00161_48020_3883.N1	07-MAY-2011 02:24:41	Bright	34.500	74	11Bet Cas	2.2680	6600.0	69	48020	No
34	GOM_NL__2PRFIN20110507_023427_000000613102_00161_48020_3884.N1	07-MAY-2011 02:34:27	Twilight	60.500	93	53Bet Peg	2.5200	3100.0	121	48020	No
35	GOM_NL__2PRFIN20110507_023840_000000483102_00161_48020_3885.N1	07-MAY-2011 02:38:40	Dark	47.500	90	54Alp Peg	2.4870	11000.	95	48020	No
36	GOM_NL__2PRFIN20110507_025145_000000463102_00161_48020_3886.N1	07-MAY-2011 02:51:45	Dark	45.500	18	24Alp PsA	1.1660	9700.0	91	48020	No
37	GOM_NL__2PRFIN20110507_025734_000000443102_00161_48020_3887.N1	07-MAY-2011 02:57:34	Dark	44.000	31	Alp Gru	1.7340	15200.	88	48020	No
38	GOM_NL__2PRFIN20110507_030308_000000413102_00162_48021_3867.N1	07-MAY-2011 03:03:08	Dark	41.000	45	Alp Pav	1.9400	26000.	82	48021	No
39	GOM_NL__2PRFIN20110507_031036_000000463102_00162_48021_3868.N1	07-MAY-2011 03:10:36	Straylight	45.500	141	Bet Ara	2.8400	4600.0	91	48021	No
40	GOM_NL__2PRFIN20110507_031248_000000553102_00162_48021_3869.N1	07-MAY-2011 03:12:48	Straylight	54.500	40	The Sco	1.8590	7100.0	109	48021	No
41	GOM_NL__2PRFIN20110507_031438_000000593102_00162_48021_3870.N1	07-MAY-2011 03:14:38	Straylight	58.500	25	35Lam Sco	1.6200	28000.	117	48021	No
42	GOM_NL__2PRFIN20110507_031722_000000573102_00162_48021_3871.N1	07-MAY-2011 03:17:22	Straylight	56.500	75	26Eps Sco	2.2910	4250.0	113	48021	No

279	GOM_NL__2PRFIN20110507_223717_000000513102_00173_48032_4650.N1	07-MAY-2011 22:37:17	Twilight	51.000	93	53Bet Peg	2.5200	3100.0	102	48032	No
280	GOM_NL__2PRFIN20110507_224132_000000483102_00173_48032_4651.N1	07-MAY-2011 22:41:32	Dark	47.500	90	54Alp Peg	2.4870	11000.	95	48032	No
281	GOM_NL__2PRFIN20110507_225441_000000473102_00173_48032_4652.N1	07-MAY-2011 22:54:41	Dark	46.500	18	24Alp PsA	1.1660	9700.0	93	48032	No
282	GOM_NL__2PRFIN20110507_230030_000000463102_00173_48032_4653.N1	07-MAY-2011 23:00:30	Dark	46.000	31	Alp Gru	1.7340	15200.	92	48032	No
283	GOM_NL__2PRFIN20110507_230604_000000433102_00174_48033_4634.N1	07-MAY-2011 23:06:04	Dark	42.500	45	Alp Pav	1.9400	26000.	85	48033	No
284	GOM_NL__2PRFIN20110507_231331_000000433102_00174_48033_4635.N1	07-MAY-2011 23:13:31	Straylight	42.500	141	Bet Ara	2.8400	4600.0	85	48033	No
285	GOM_NL__2PRFIN20110507_231545_000000543102_00174_48033_4636.N1	07-MAY-2011 23:15:45	Straylight	54.000	40	The Sco	1.8590	7100.0	108	48033	No
286	GOM_NL__2PRFIN20110507_231735_000000593102_00174_48033_4637.N1	07-MAY-2011 23:17:35	Straylight	58.500	25	35Lam Sco	1.6200	28000.	117	48033	No
287	GOM_NL__2PRFIN20110507_232017_000000583102_00174_48033_4638.N1	07-MAY-2011 23:20:17	Straylight	58.000	75	26Eps Sco	2.2910	4250.0	116	48033	No
288	GOM_NL__2PRFIN20110507_232340_000000613102_00174_48033_4639.N1	07-MAY-2011 23:23:40	Twilight	60.500	16	21Alp Sco	1.0200	3000.0	121	48033	No
289	GOM_NL__2PRFIN20110507_232537_000000543102_00174_48033_4640.N1	07-MAY-2011 23:25:37	Twilight	54.000	80	7Del Sco	2.3160	30000.	108	48033	No
290	GOM_NL__2PRFIN20110507_232829_000000413102_00174_48033_4641.N1	07-MAY-2011 23:28:29	Bright	41.000	122	9Alp2Lib	2.7470	9700.0	82	48033	No
291	GOM_NL__2PRFIN20110507_233031_000000433102_00174_48033_4642.N1	07-MAY-2011 23:30:31	Bright	43.000	104	27Bet Lib	2.6140	13100.	86	48033	No
292	GOM_NL__2PRFIN20110507_233846_000000373102_00174_48033_4643.N1	07-MAY-2011 23:38:46	Bright	36.500	111	8Eta Boo	2.6800	6000.0	73	48033	No
293	GOM_NL__2PRFIN20110507_234153_000000413102_00174_48033_4644.N1	07-MAY-2011 23:41:53	Bright	41.000	83		2.3780	11000.	82	48033	No
294	GOM_NL__2PRFIN20110507_234458_000000583102_00174_48033_4645.N1	07-MAY-2011 23:44:58	Bright	58.000	180	27Gam Boo	3.0400	8000.0	116	48033	No
295	GOM_NL__2PRFIN20110507_234734_000000353102_00174_48033_4646.N1	07-MAY-2011 23:47:34	Bright	35.000	39	85Eta UMa	1.8540	24000.	70	48033	No
296	GOM_NL__2PRFIN20110507_235406_000000443102_00174_48033_4647.N1	07-MAY-2011 23:54:06	Bright	44.000	119	14Eta Dra	2.7270	4700.0	88	48033	No

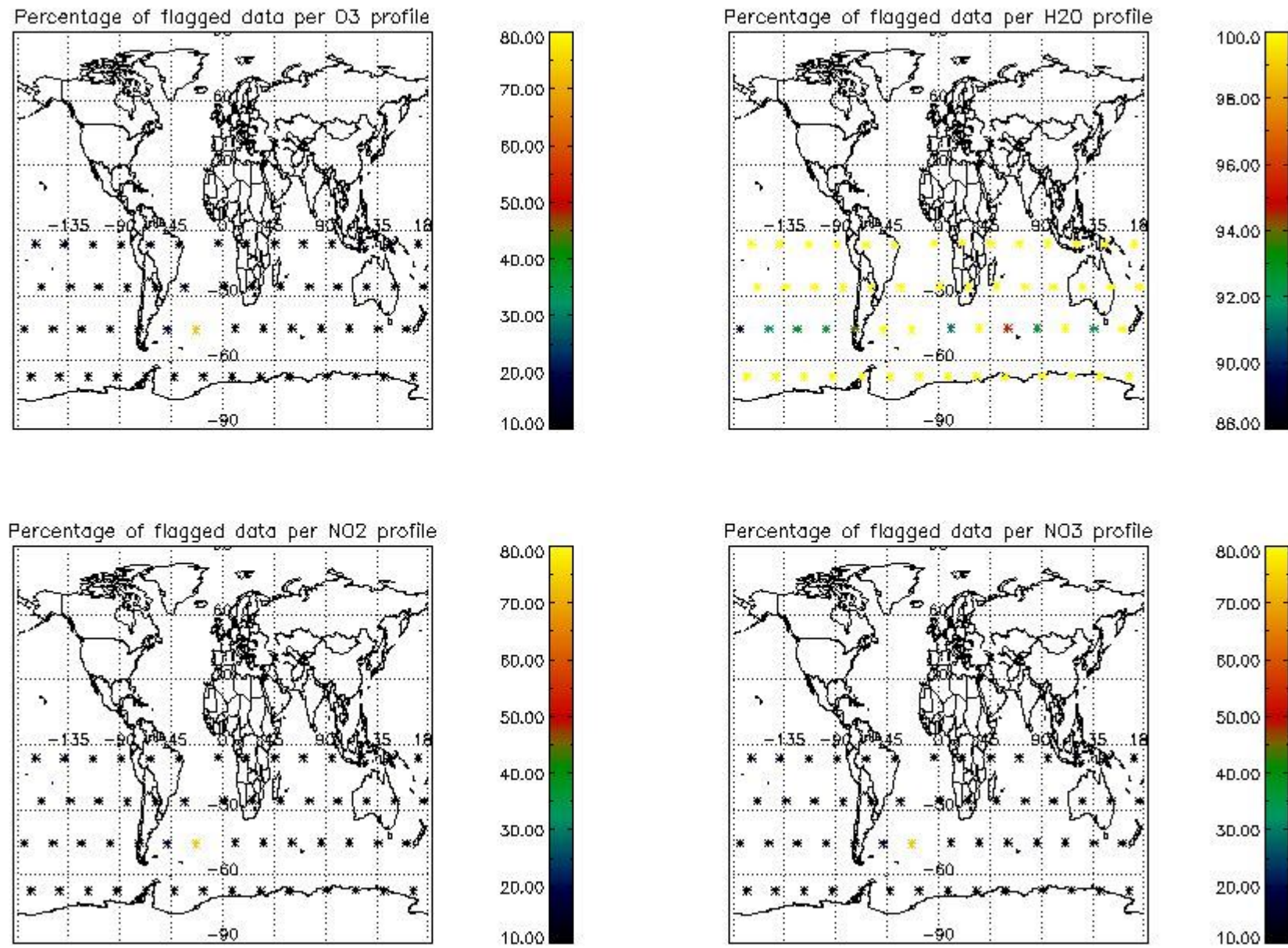
3. Quality information per product

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)

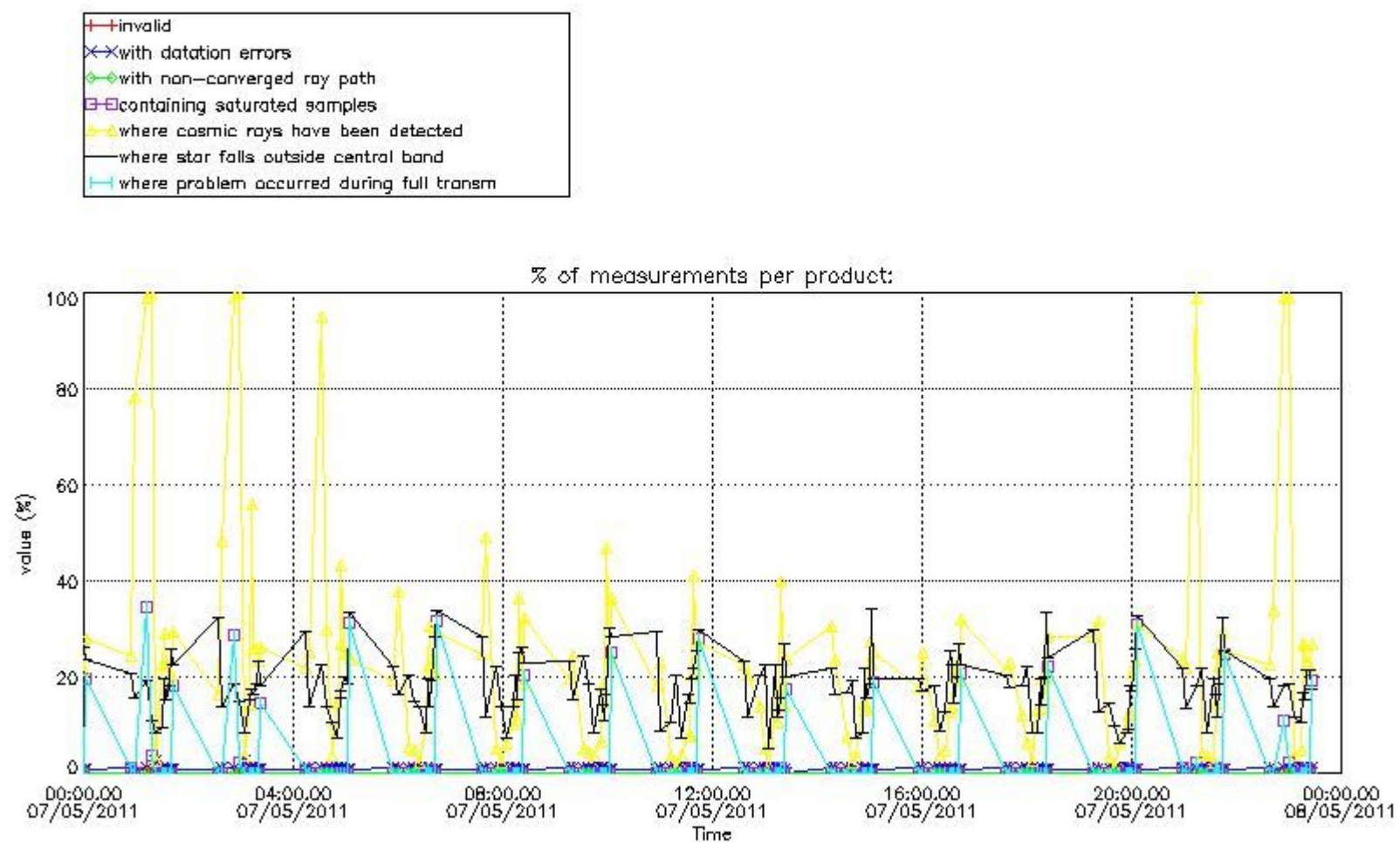


4. Level 1 quality information per product

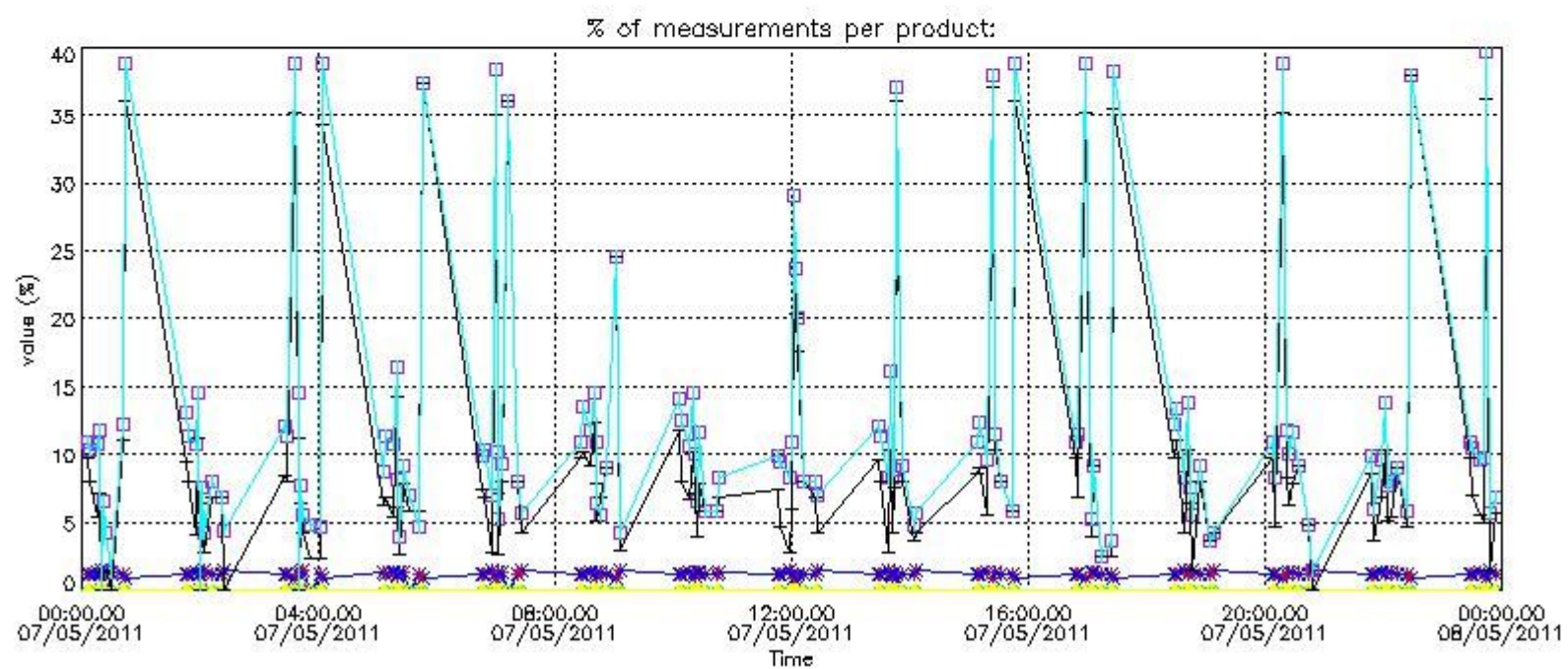
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

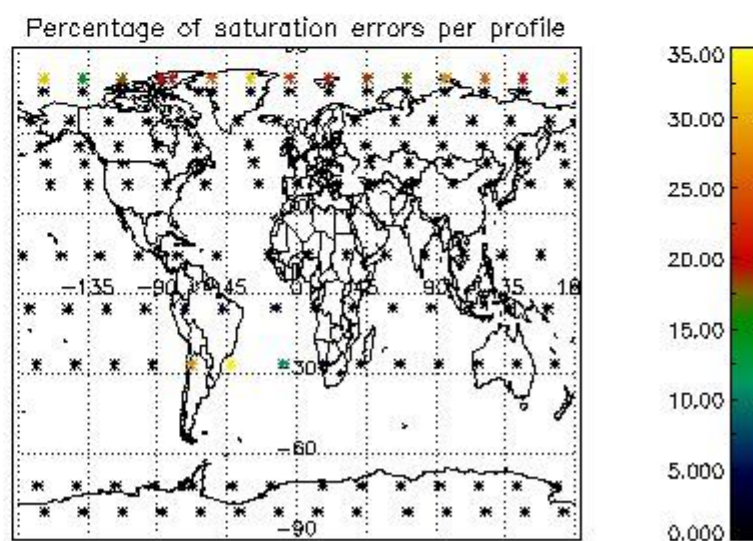
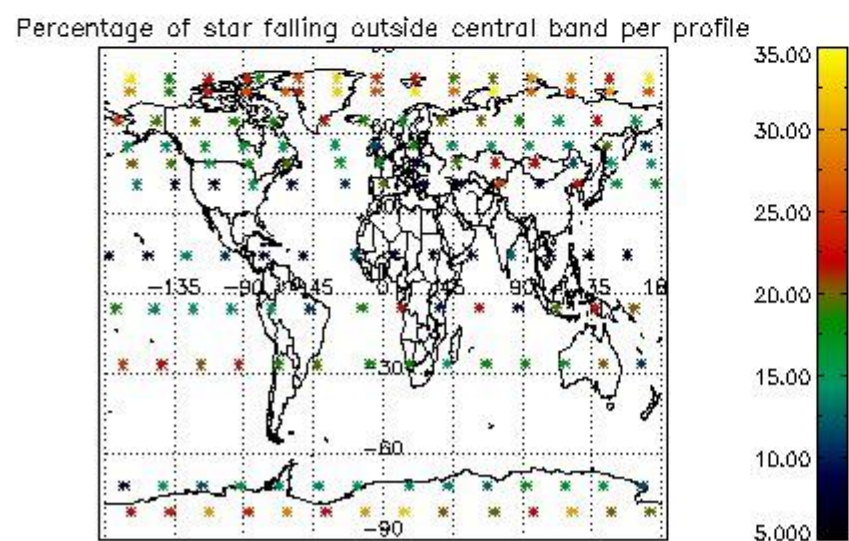
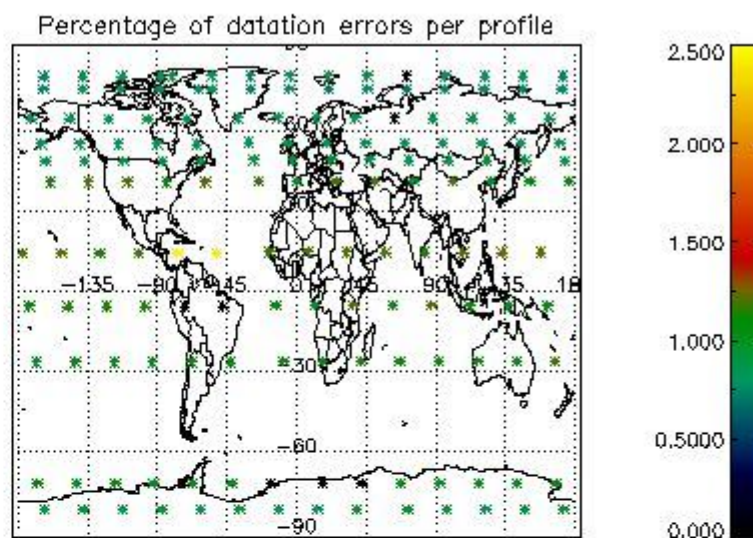
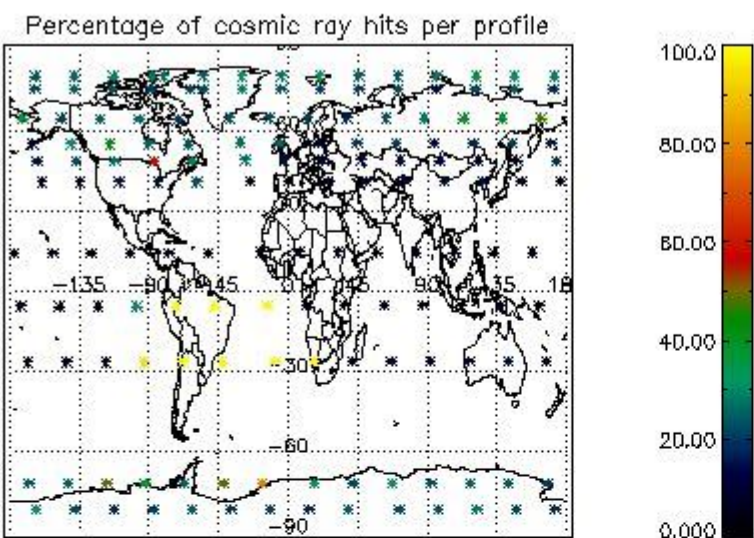


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

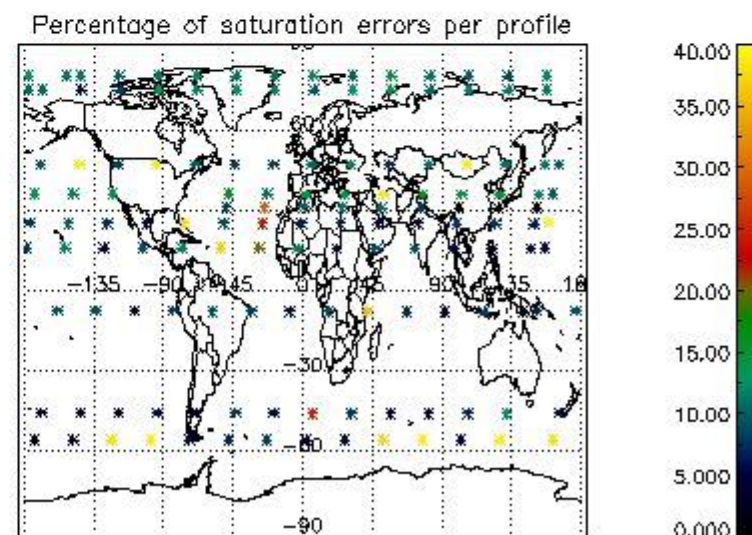
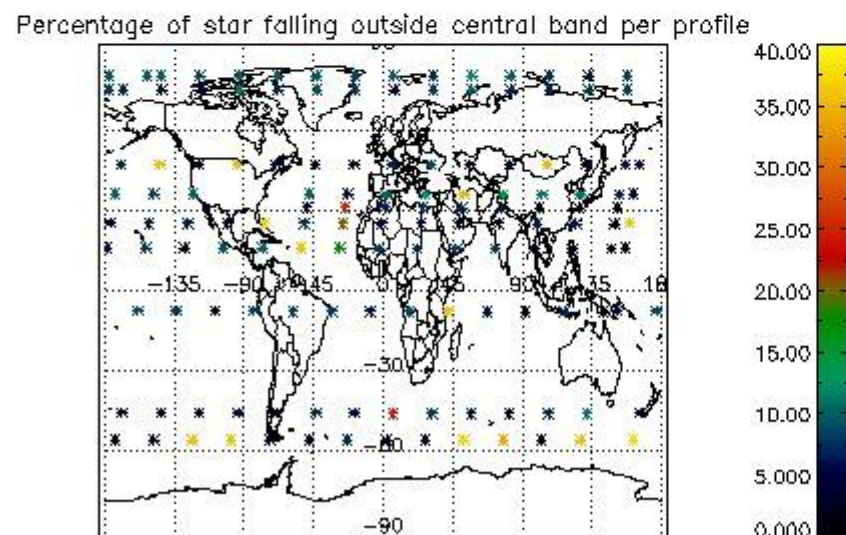
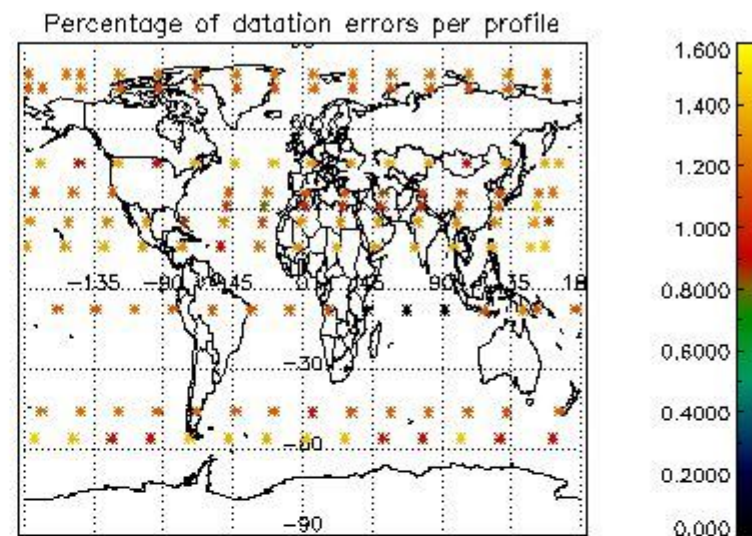
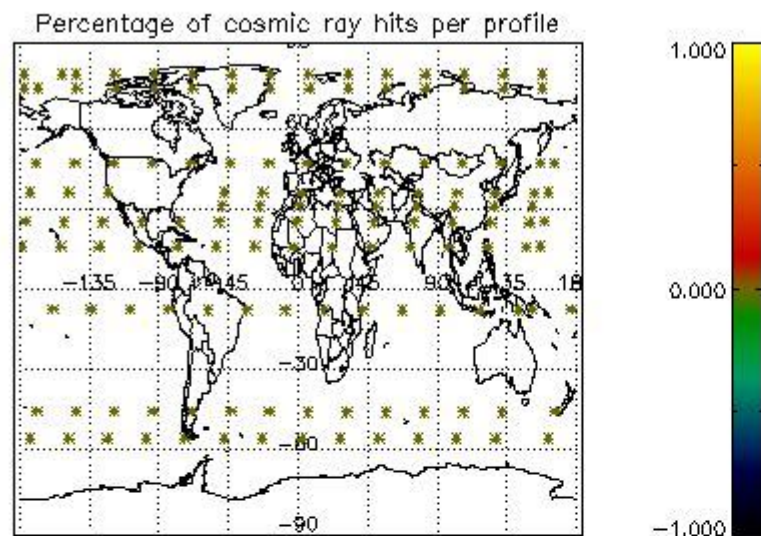


4.2 Plot quality information per product coming from level 1b processing (world map)

4.2.1 Plot level 1 quality information per product (world map): ENVI SAT 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

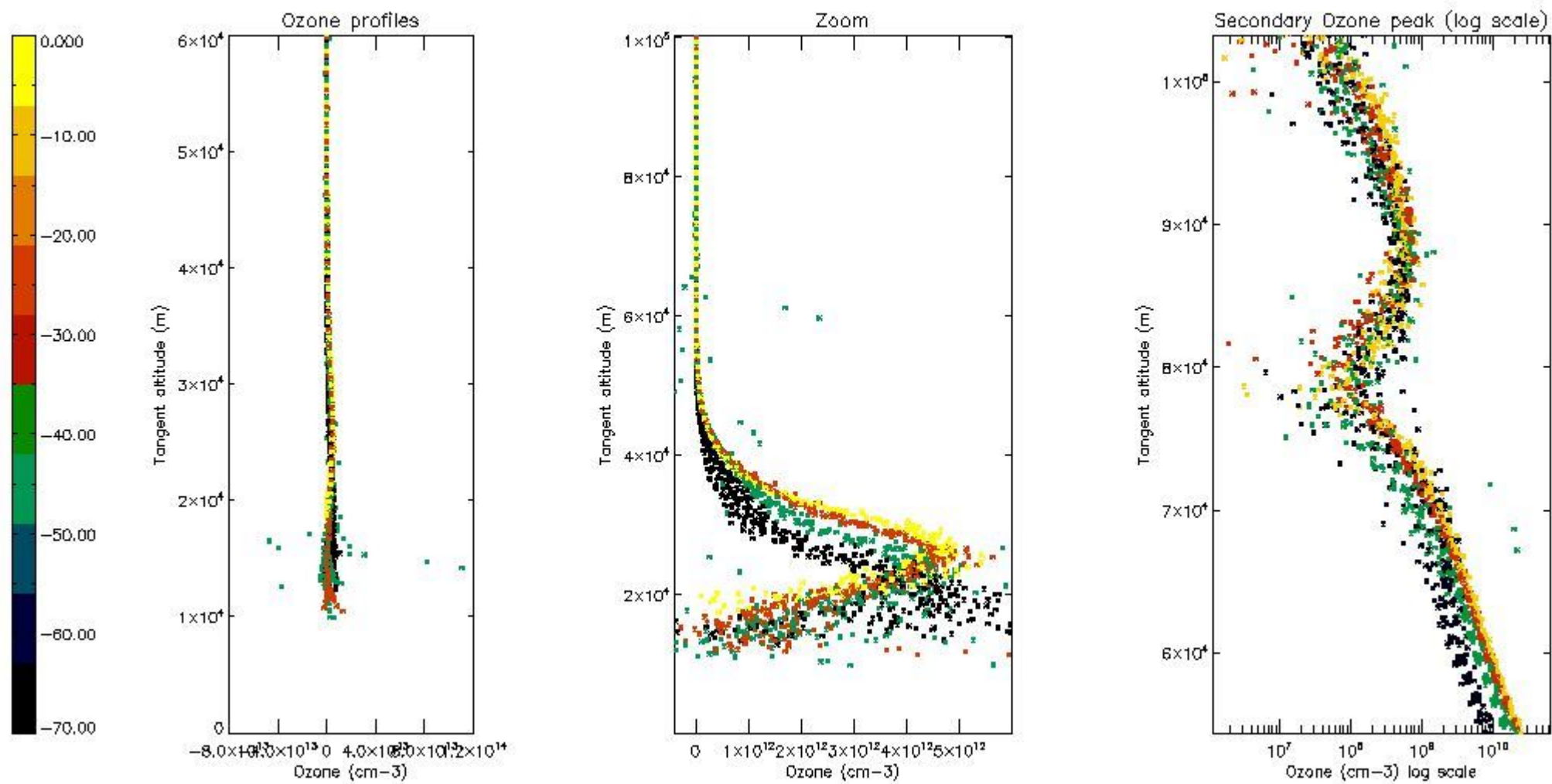
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	18
STD < 20	11

STD < 10	8
STD < 5	5

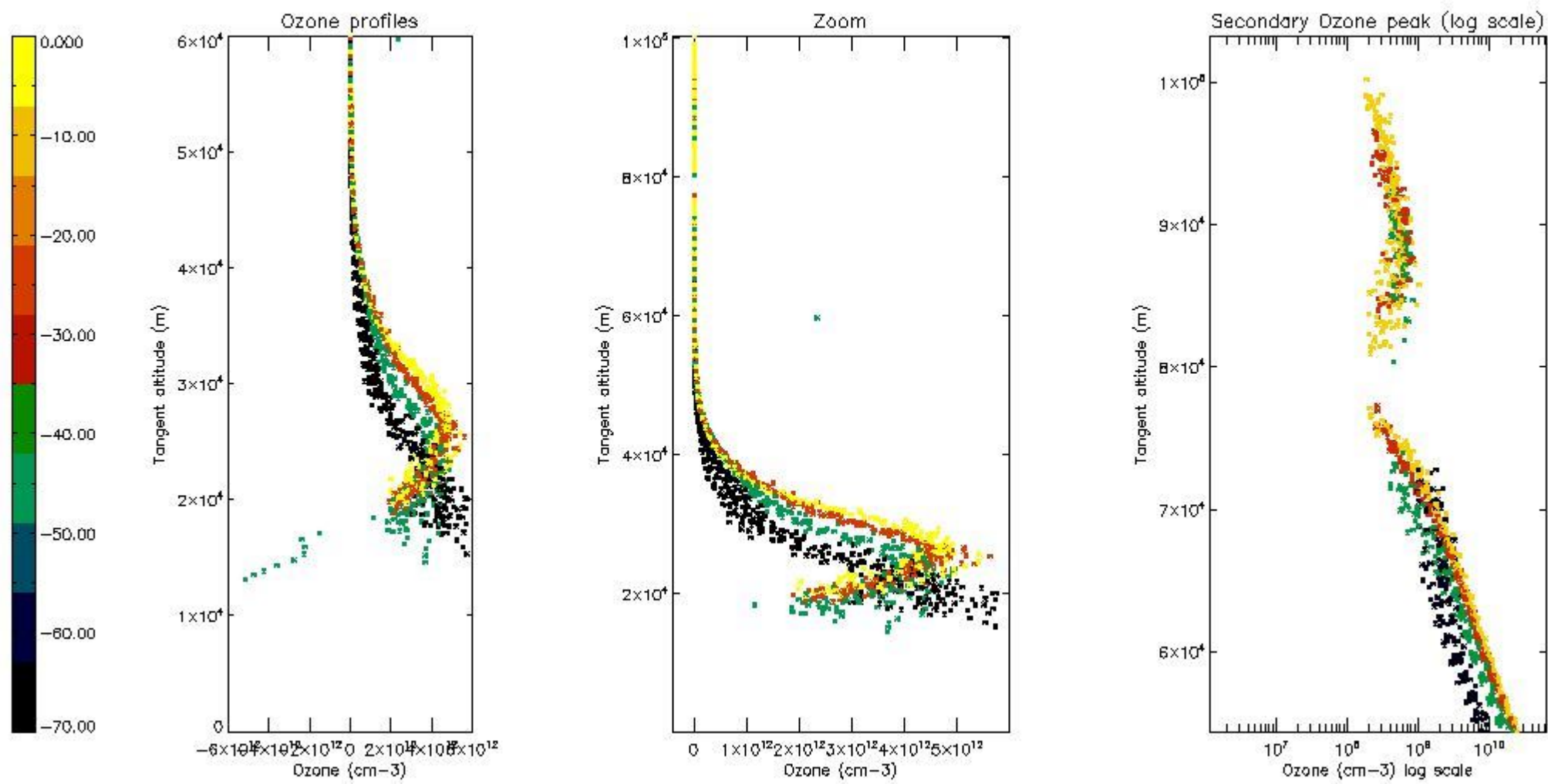
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



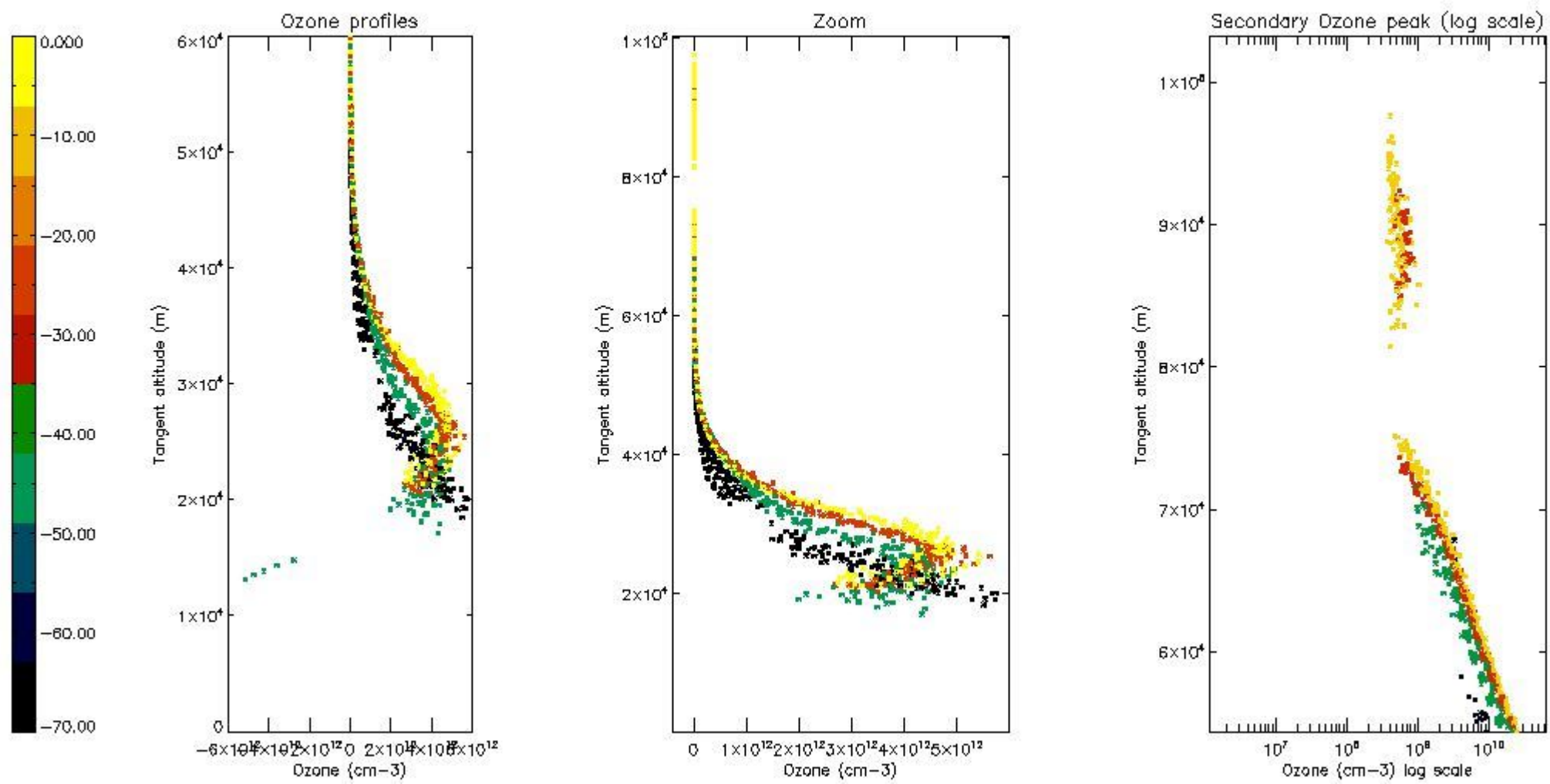
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



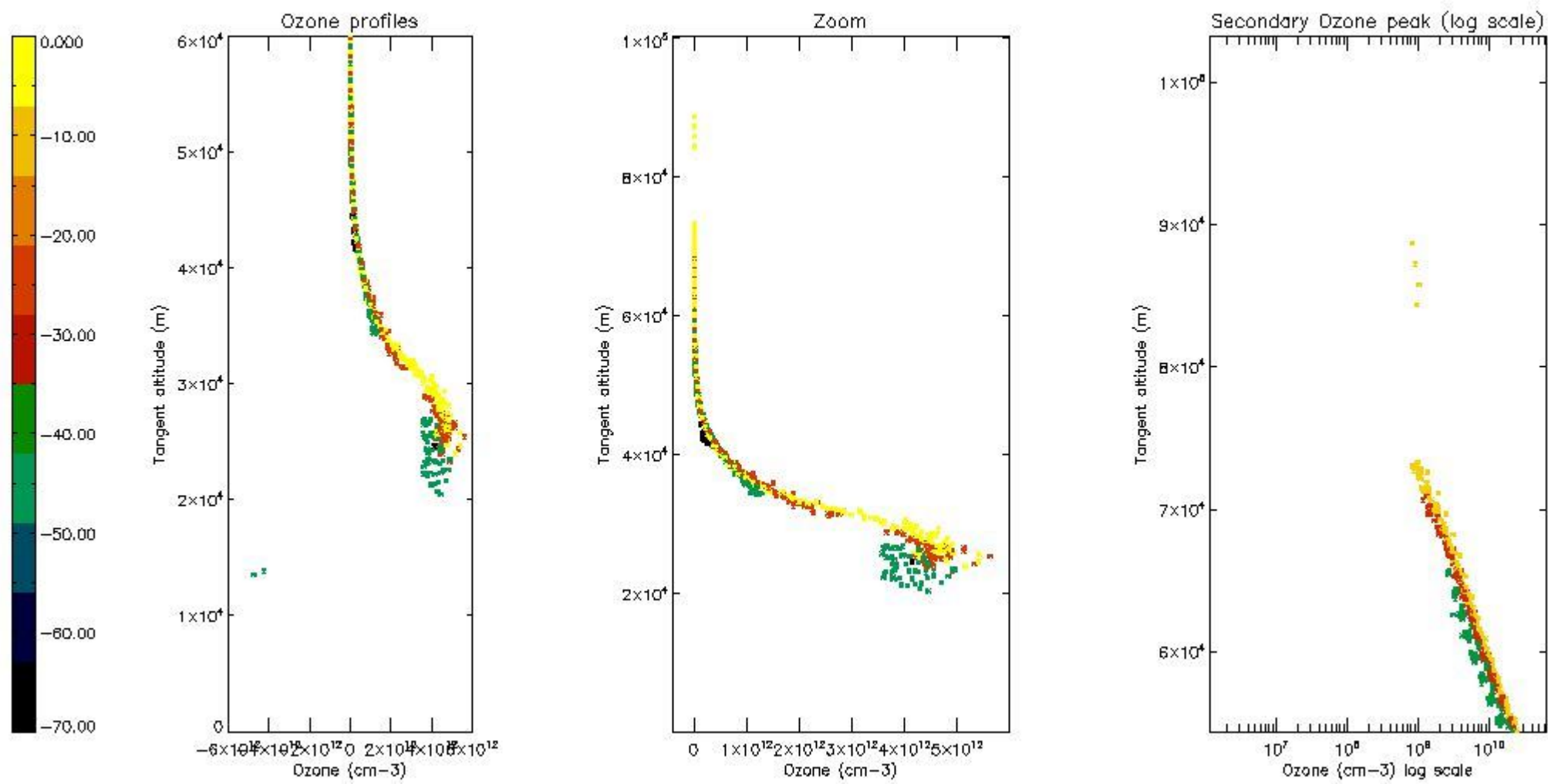
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



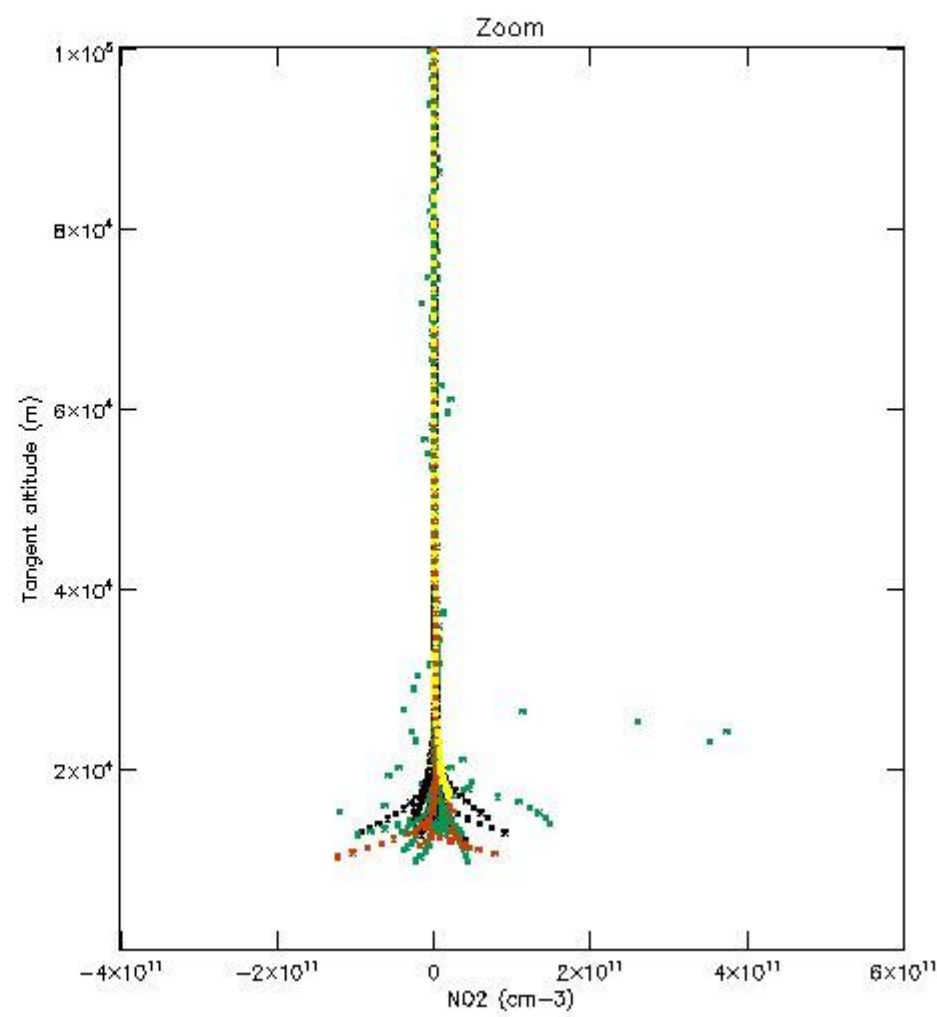
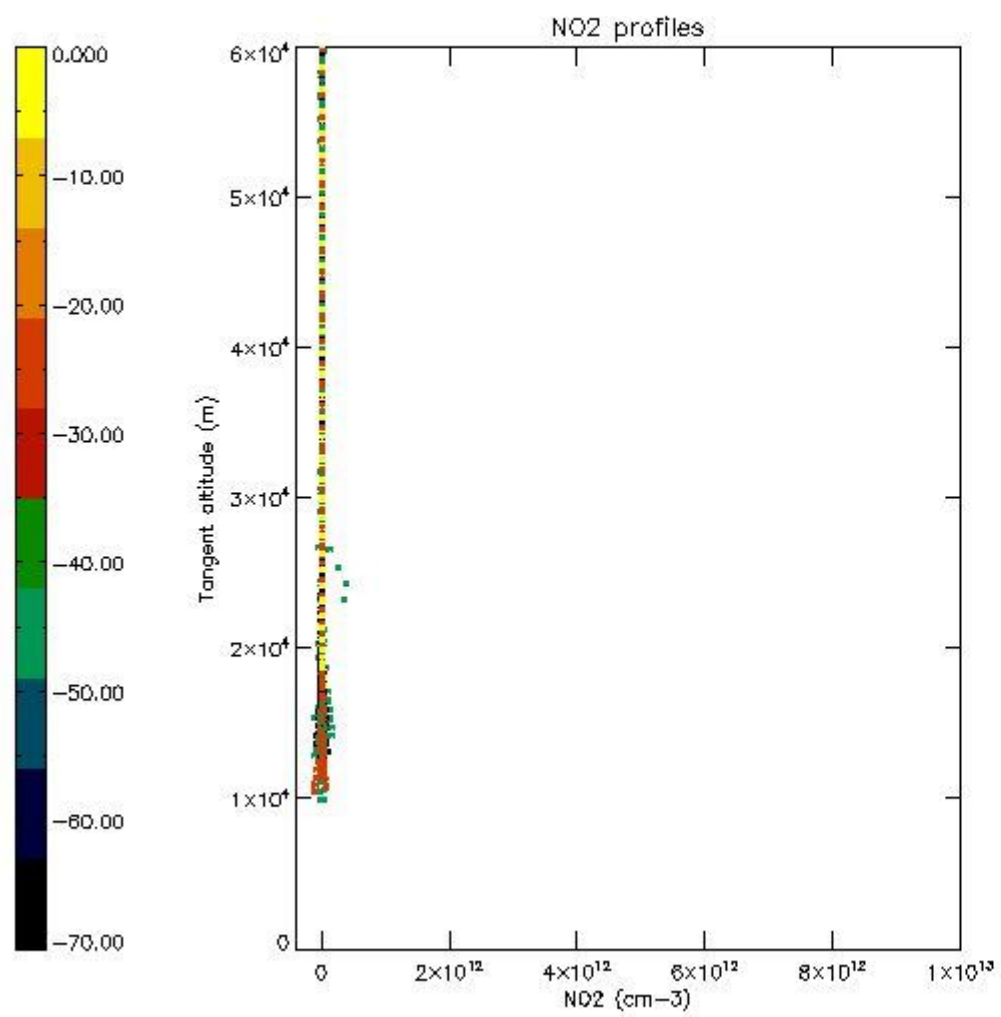
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



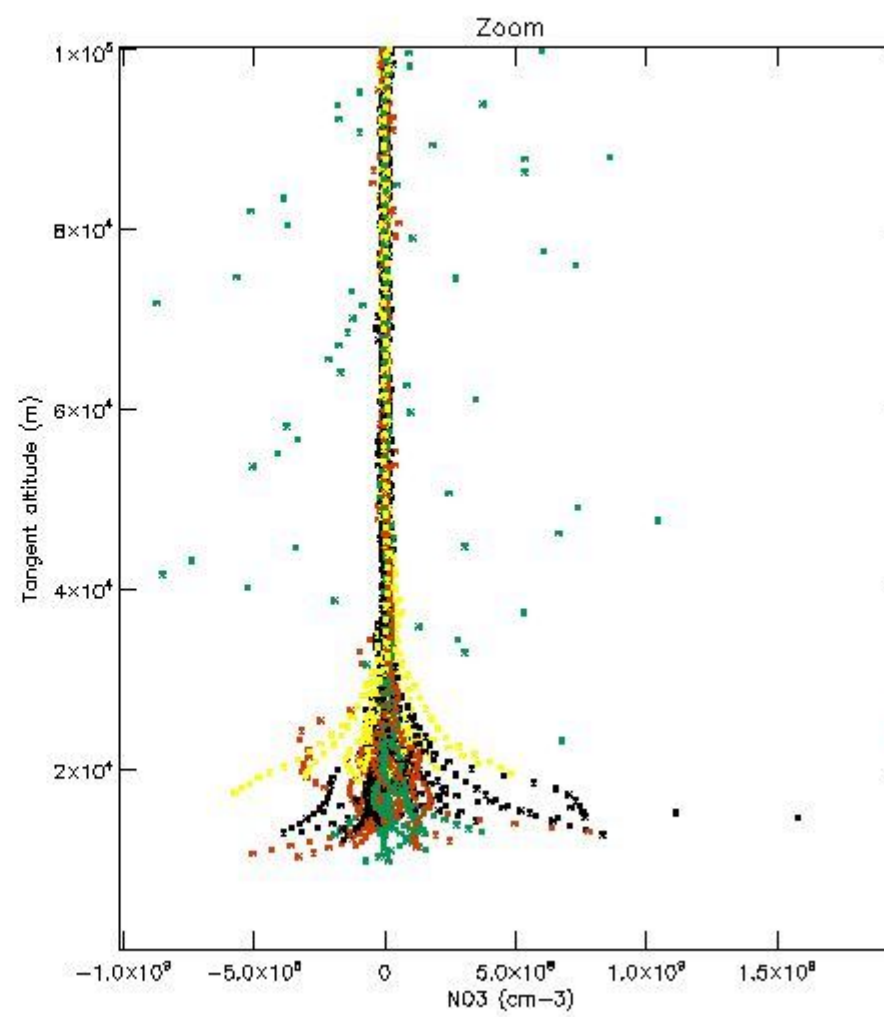
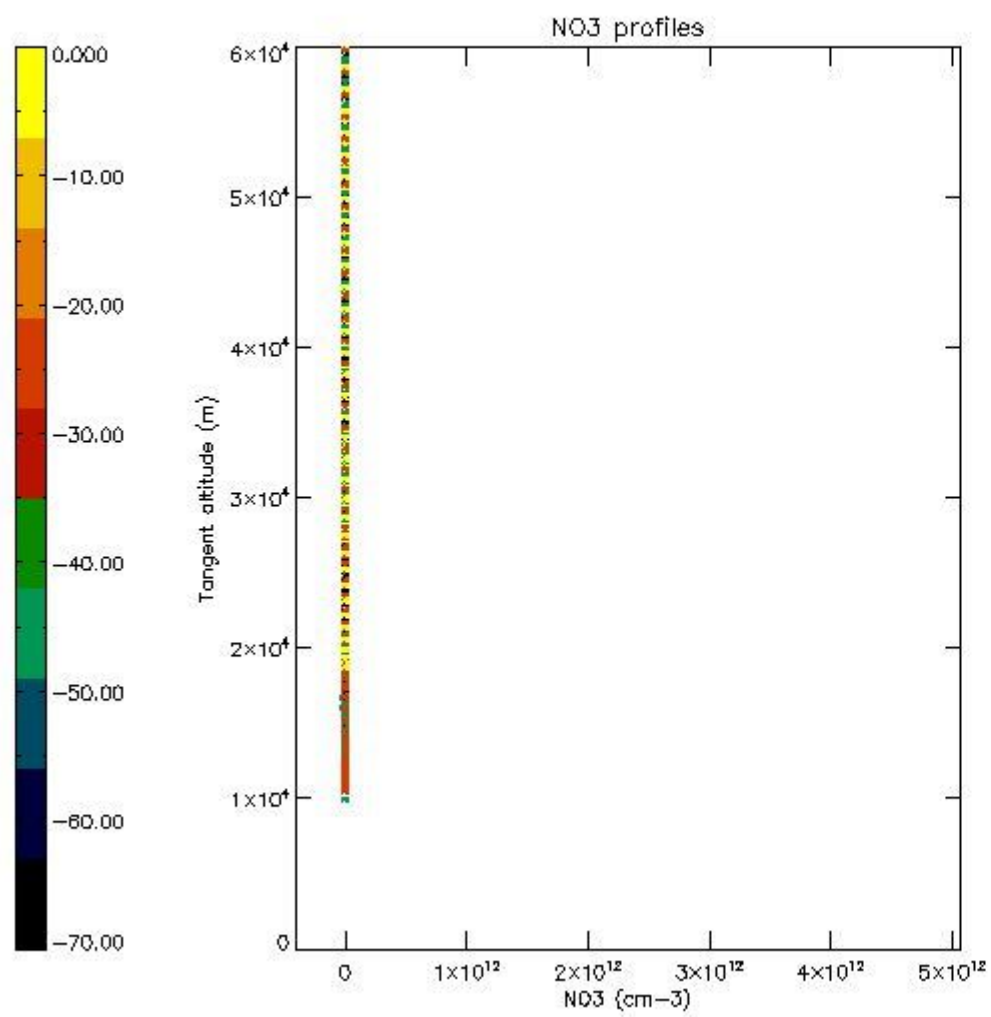
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



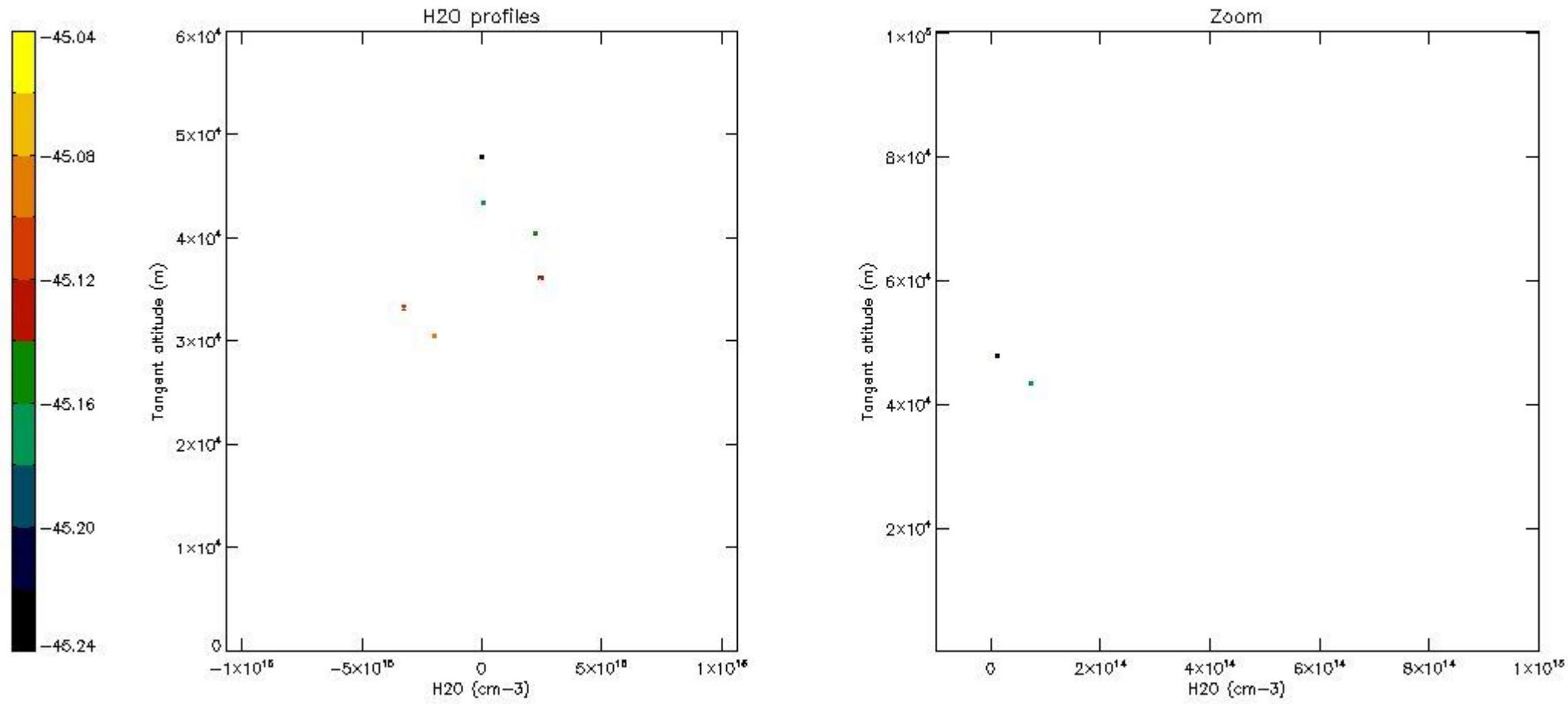
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

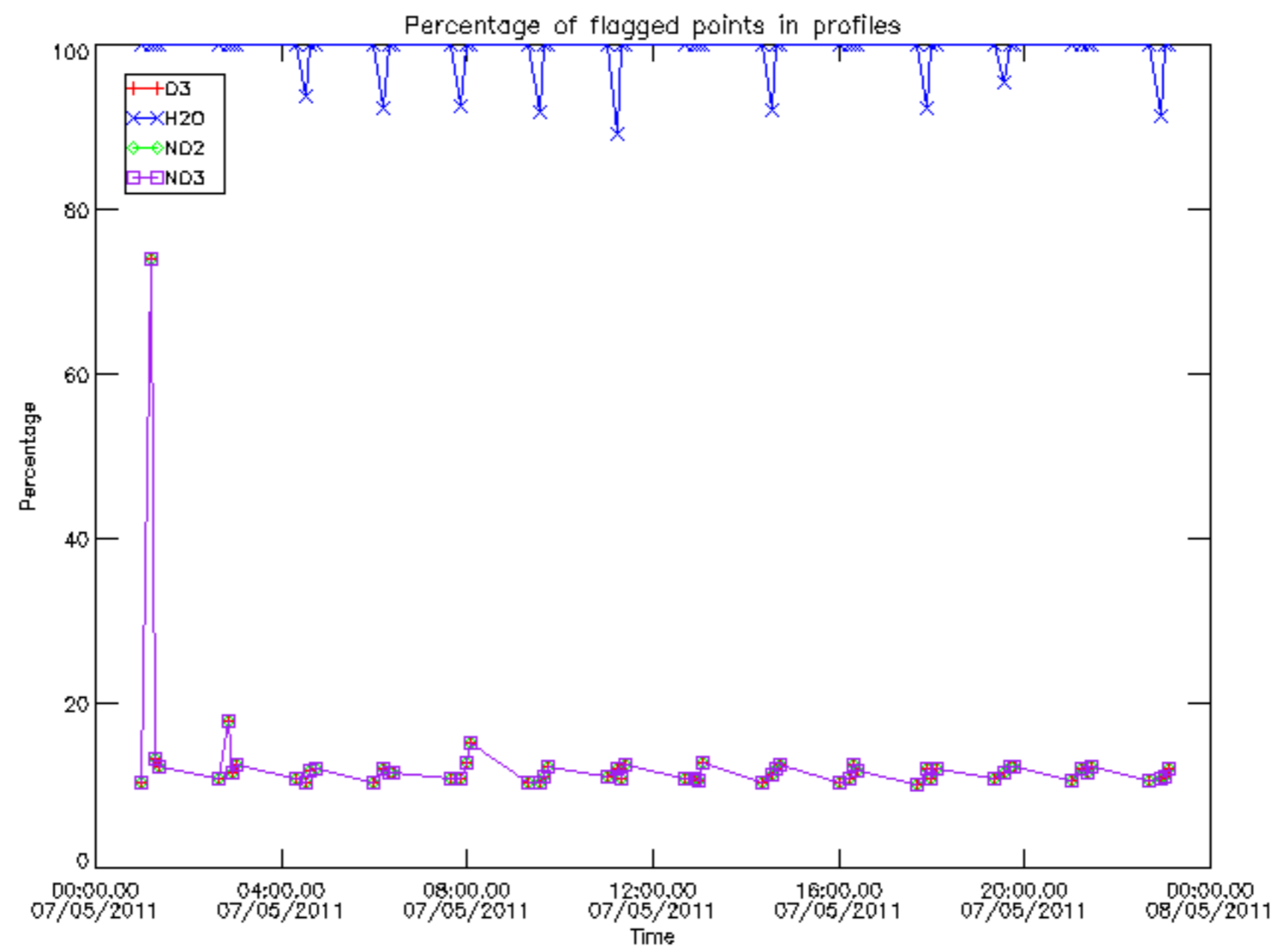
The colorbar represents the latitude.



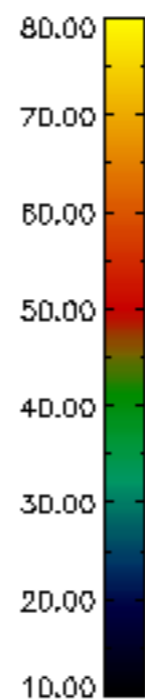
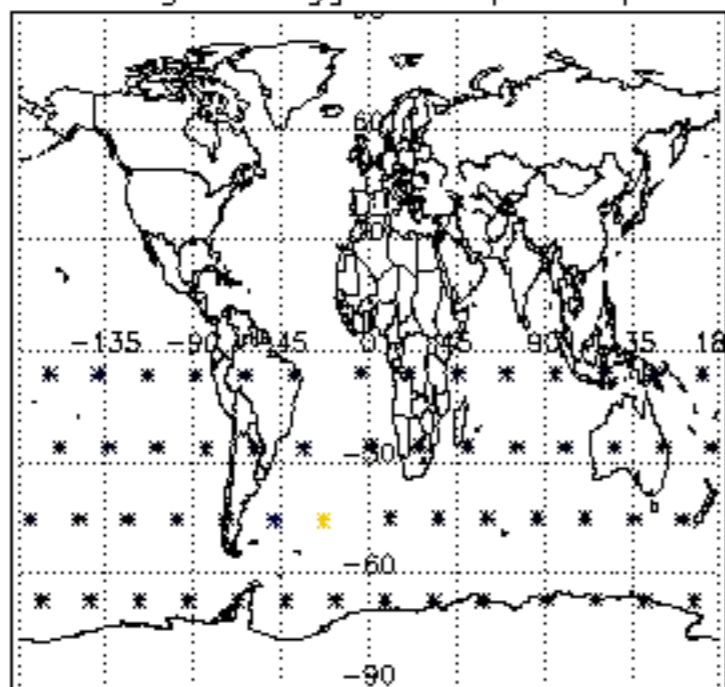
6. Auxiliary Data Files used for the production reported in section 2

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.

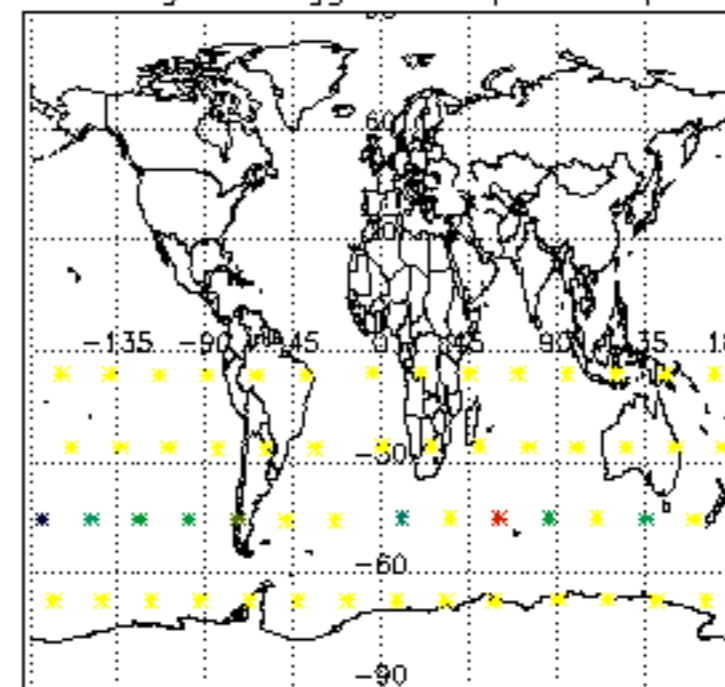
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	07-MAY-2011 00:00:18
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	07-MAY-2011 00:00:18
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	07-MAY-2011 00:00:18



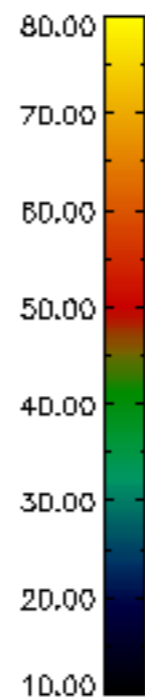
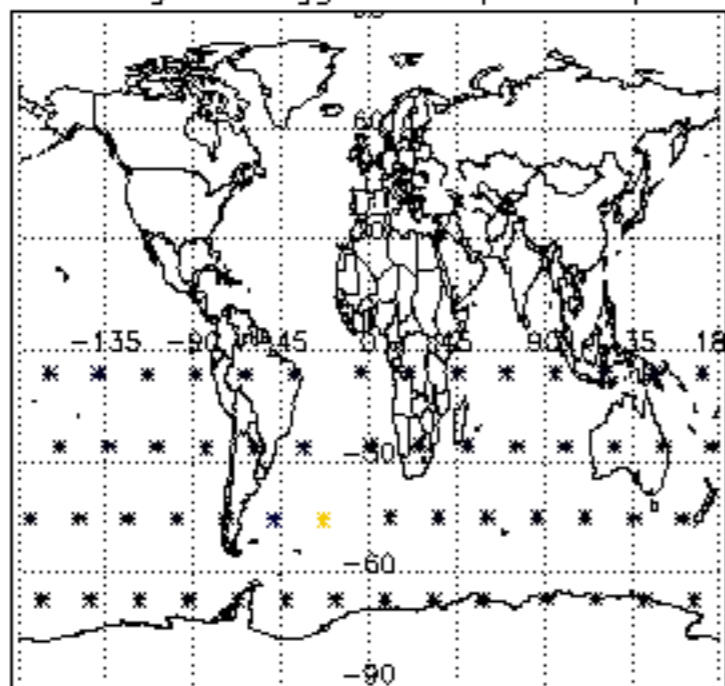
Percentage of flagged data per D3 profile



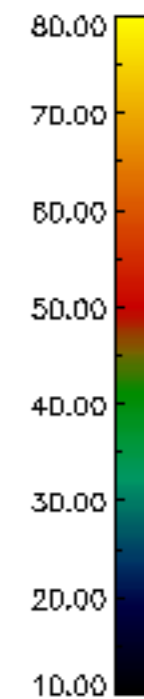
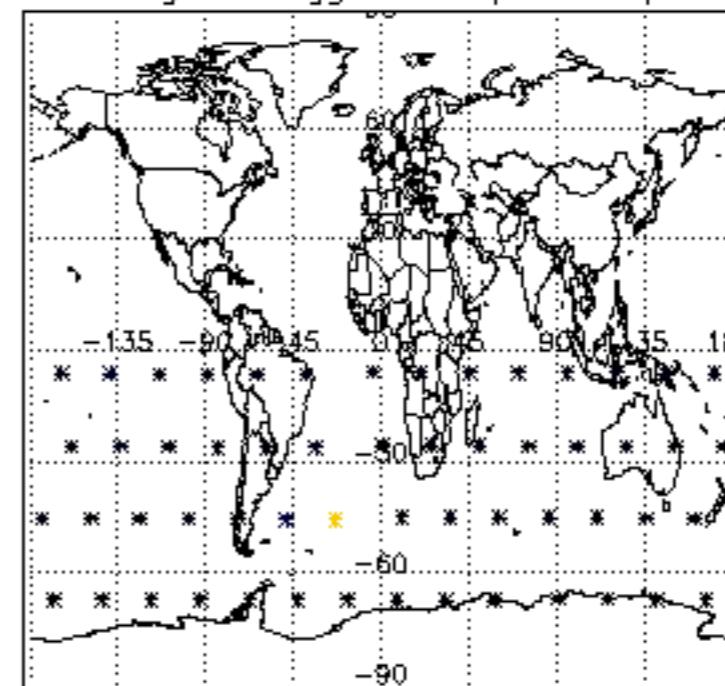
Percentage of flagged data per H2O profile

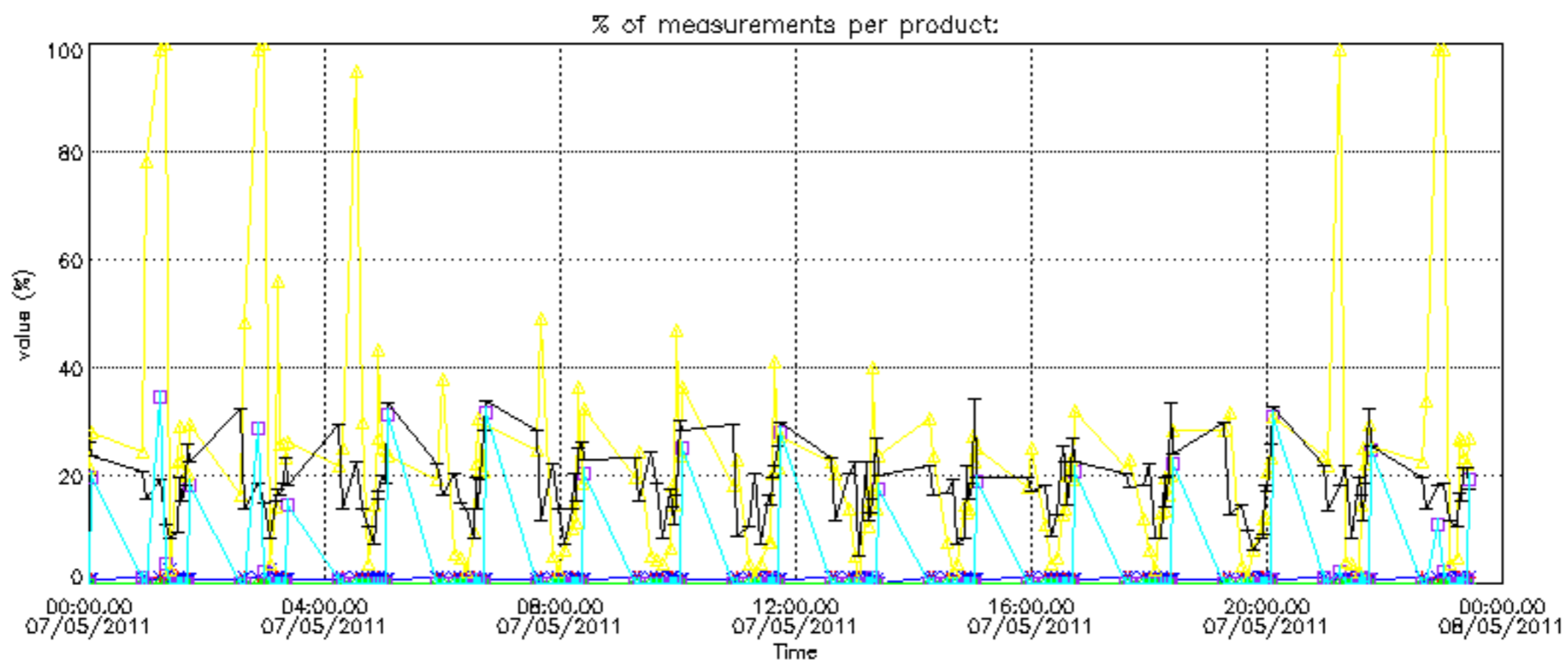


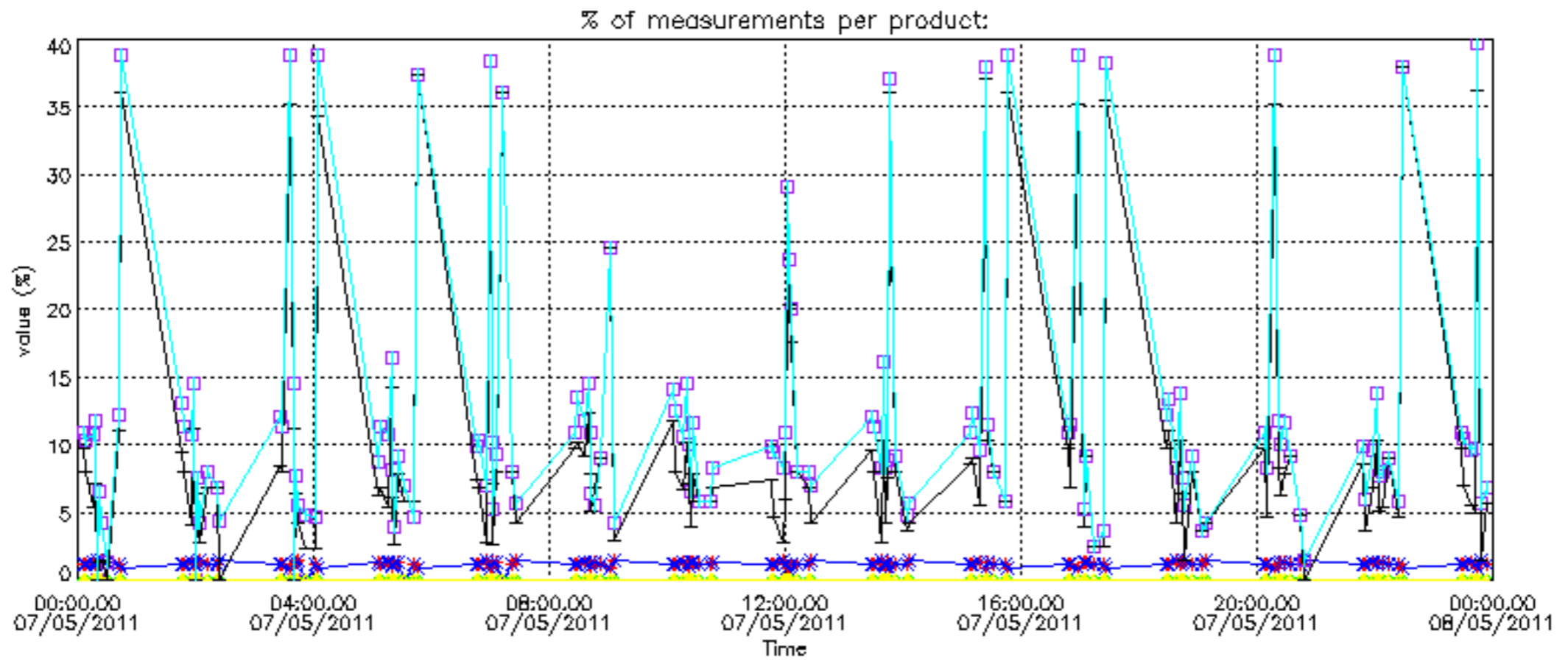
Percentage of flagged data per NO2 profile



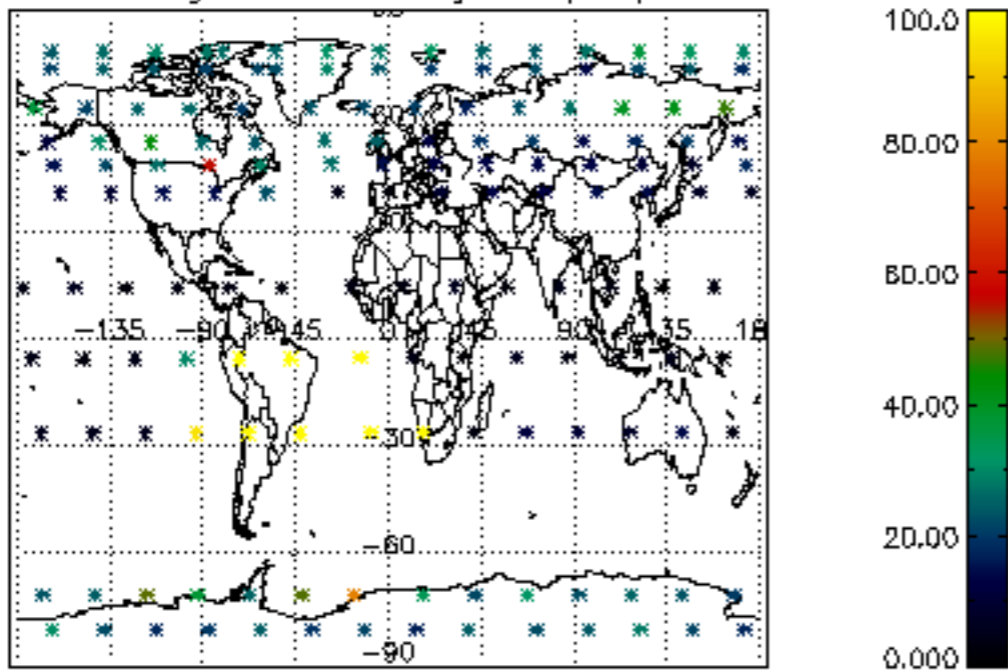
Percentage of flagged data per NO3 profile



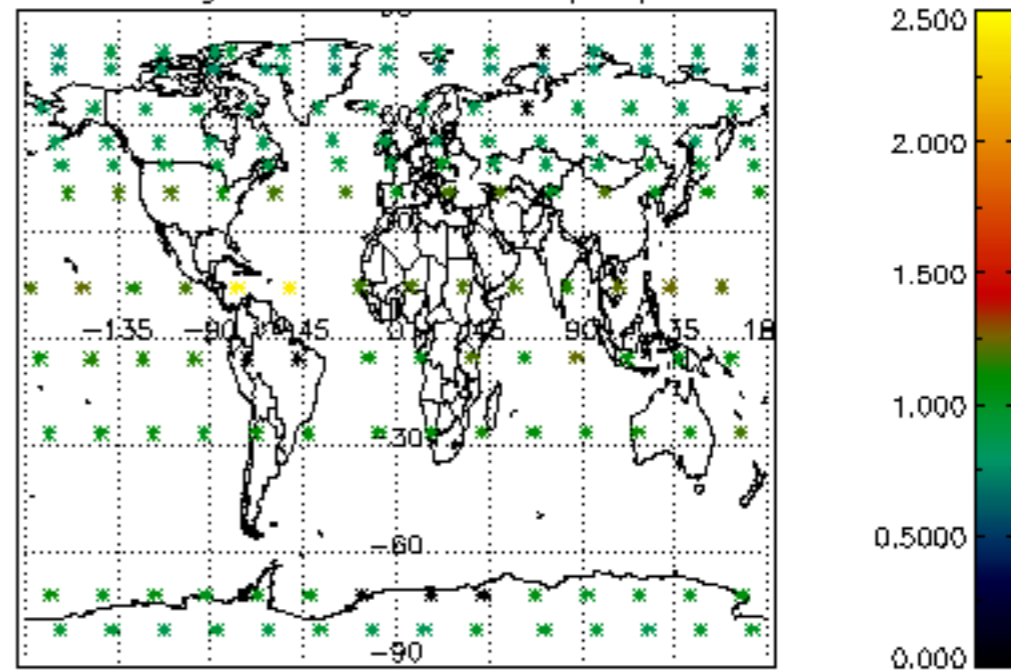




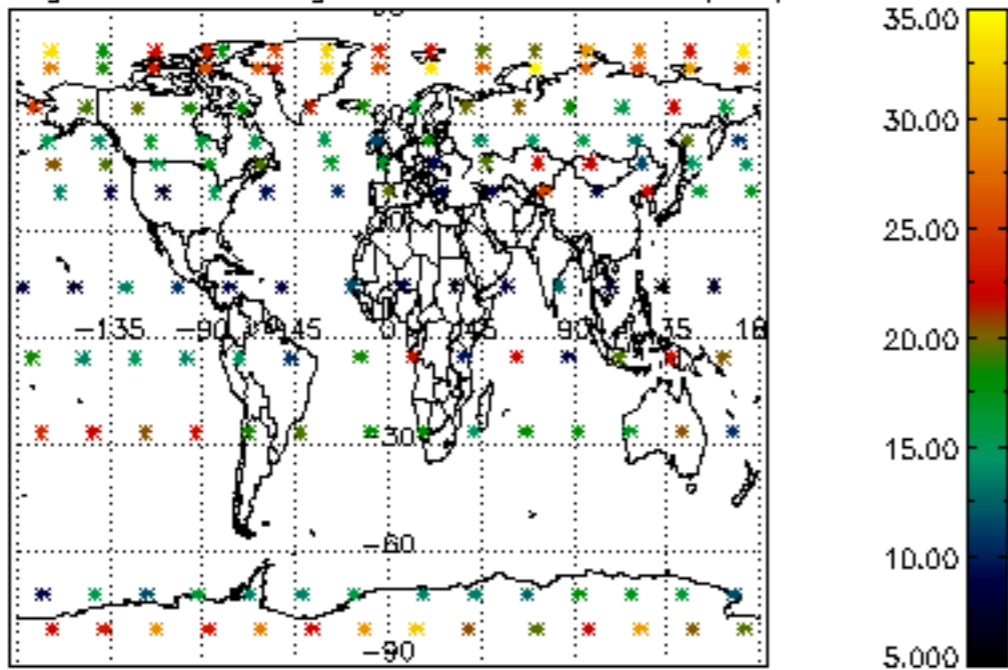
Percentage of cosmic ray hits per profile



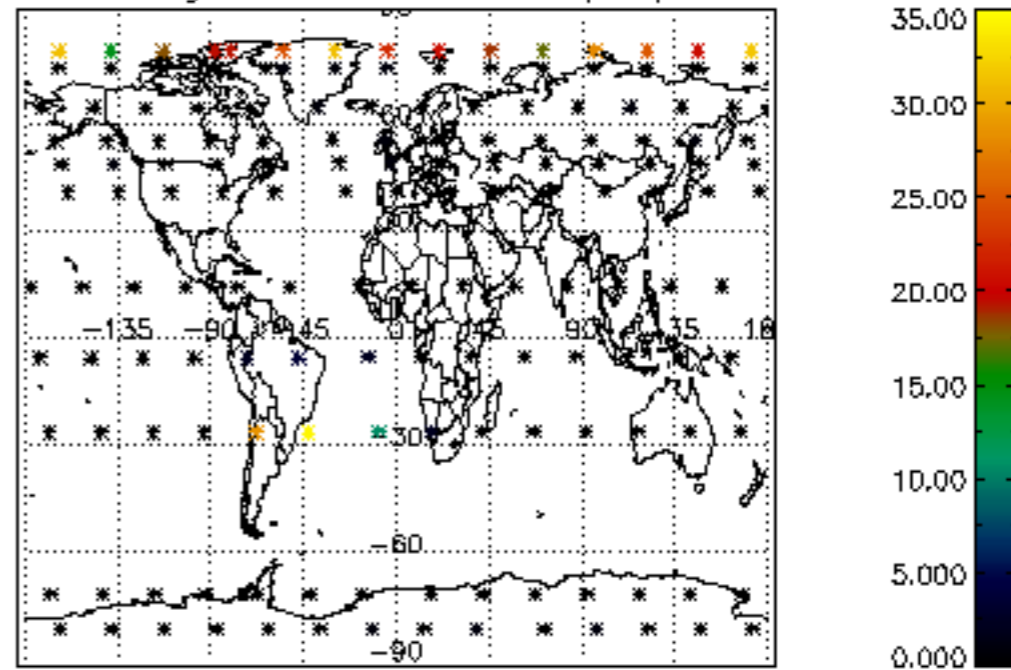
Percentage of datation errors per profile



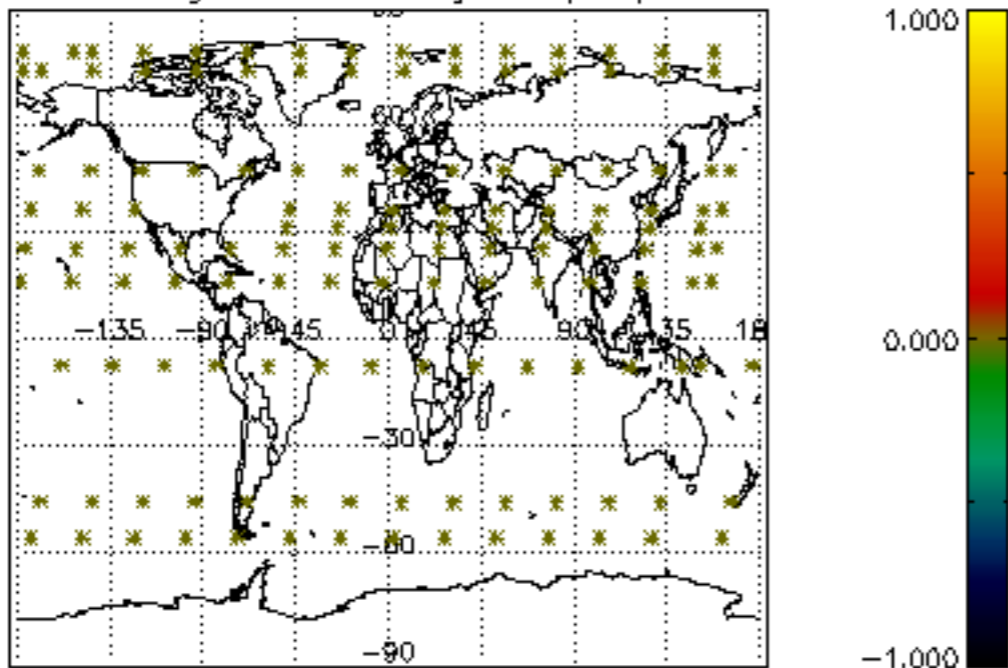
Percentage of star falling outside central band per profile



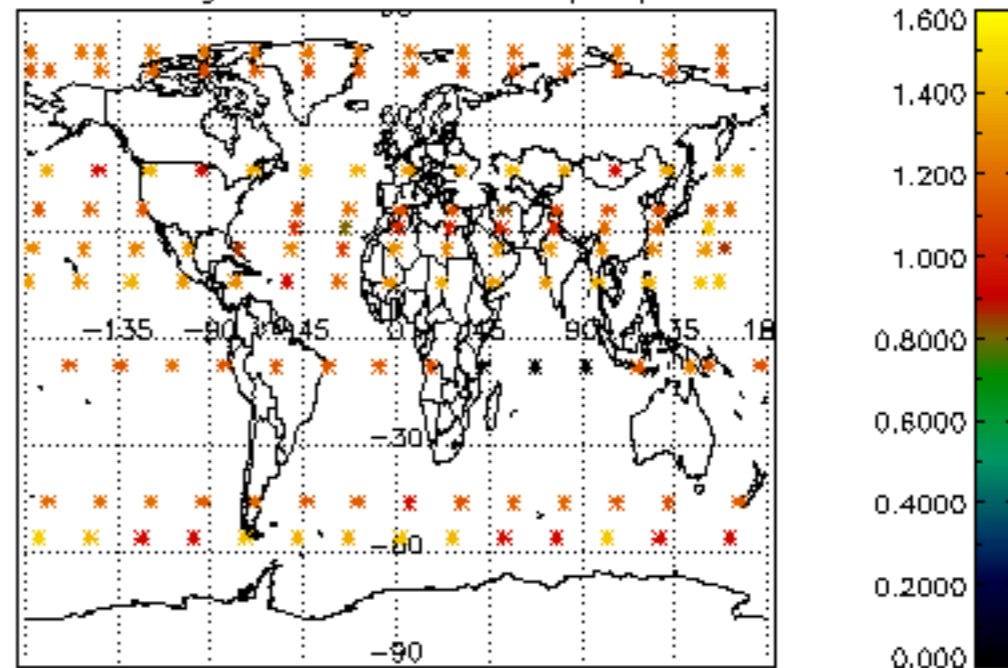
Percentage of saturation errors per profile



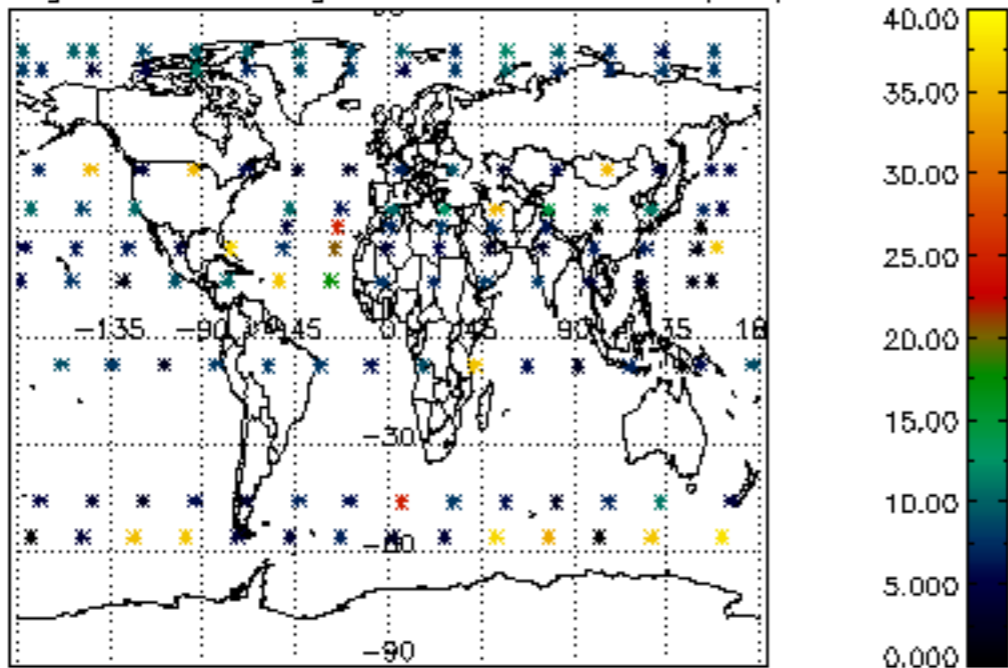
Percentage of cosmic ray hits per profile



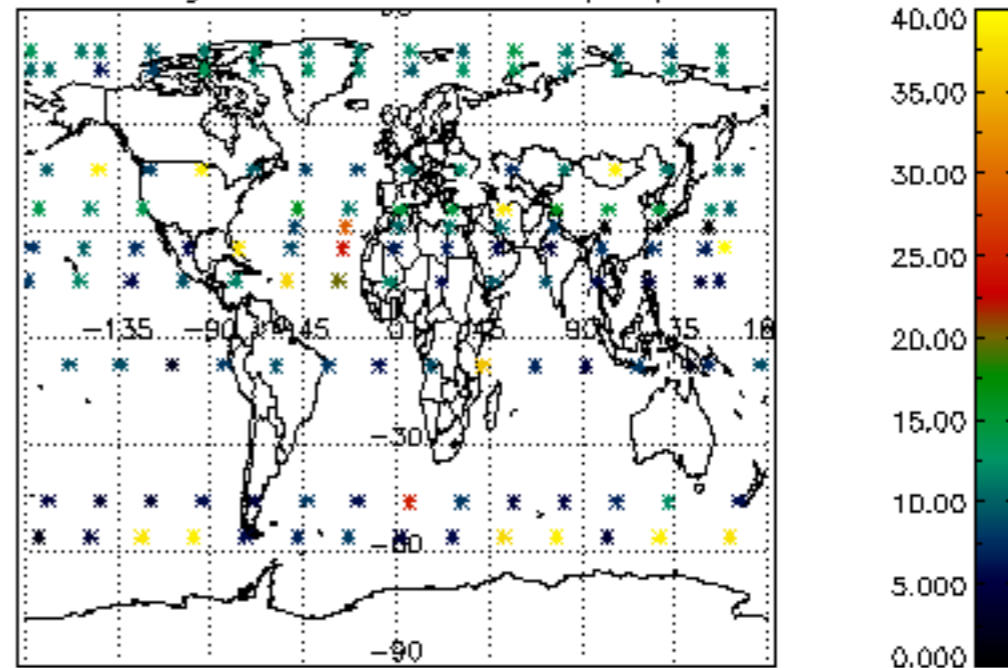
Percentage of datation errors per profile

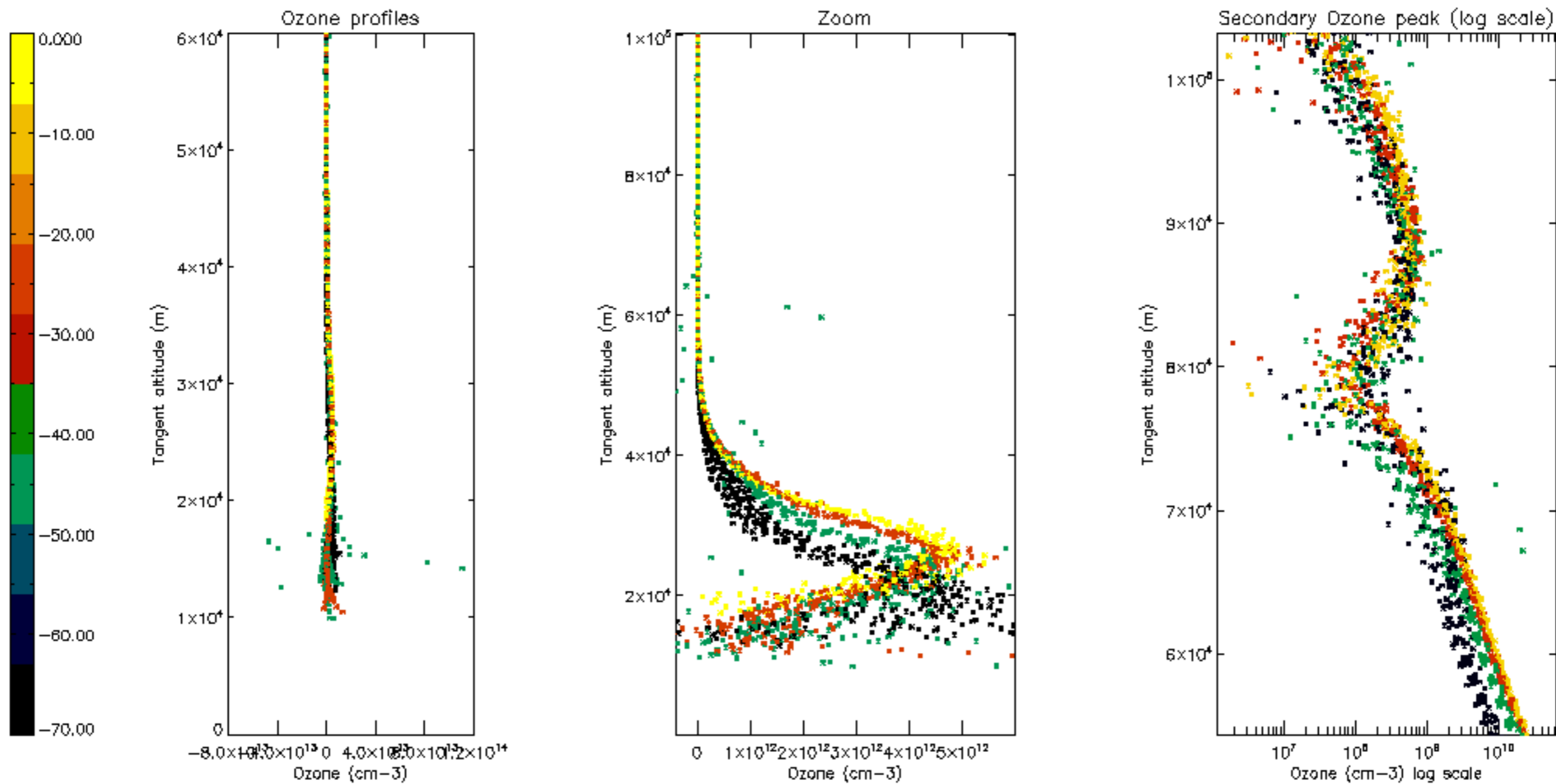


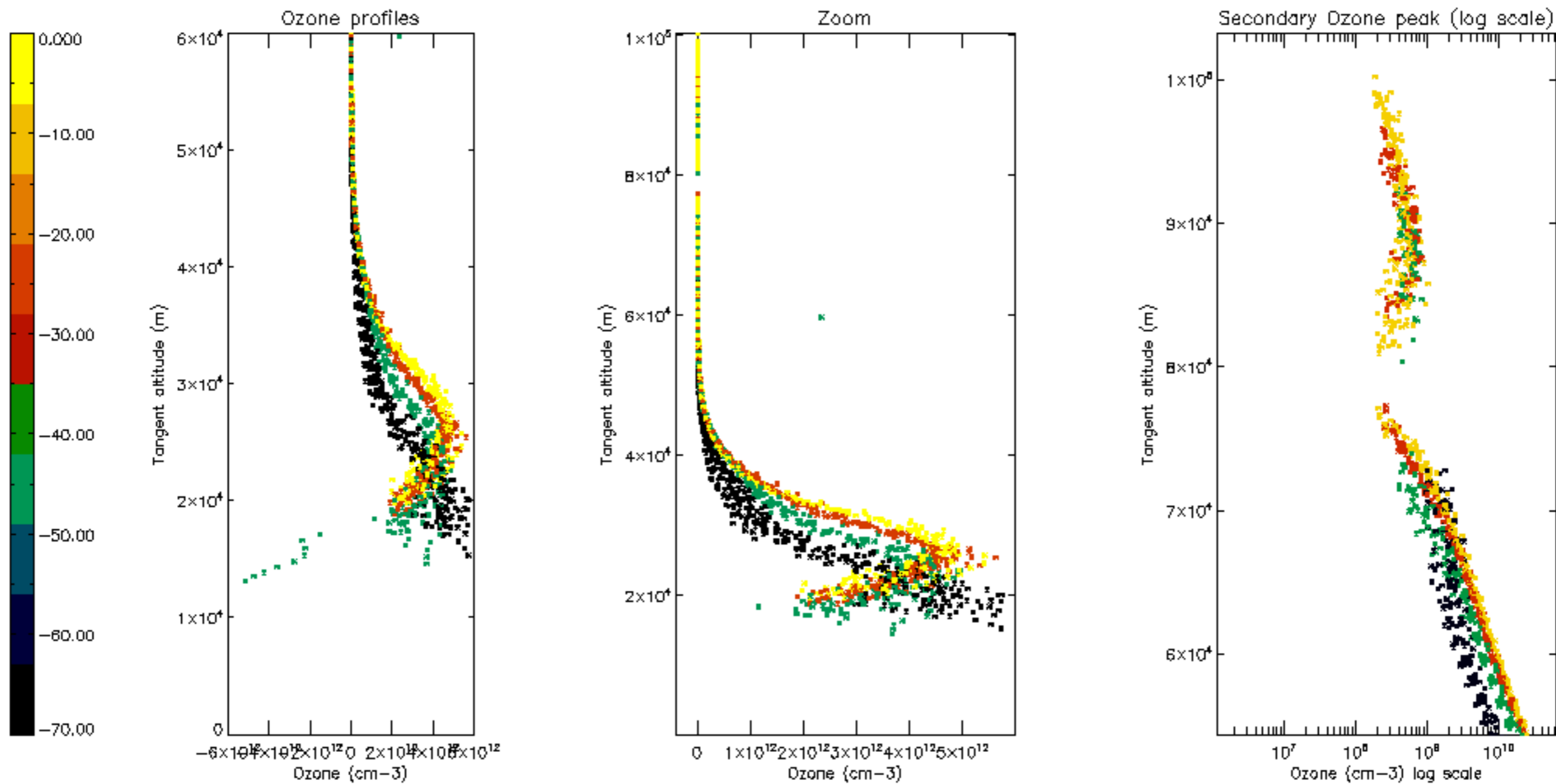
Percentage of star falling outside central band per profile

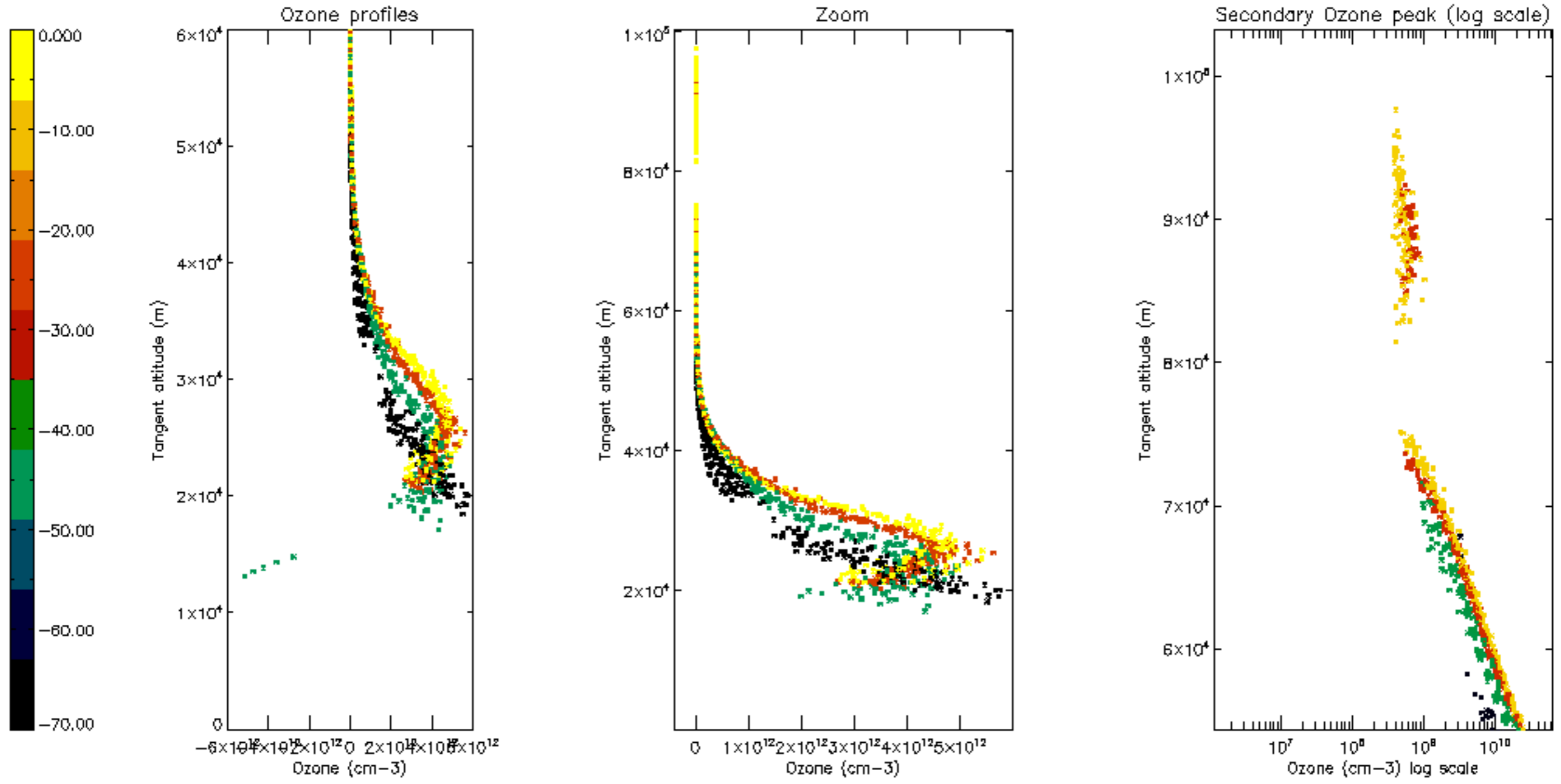


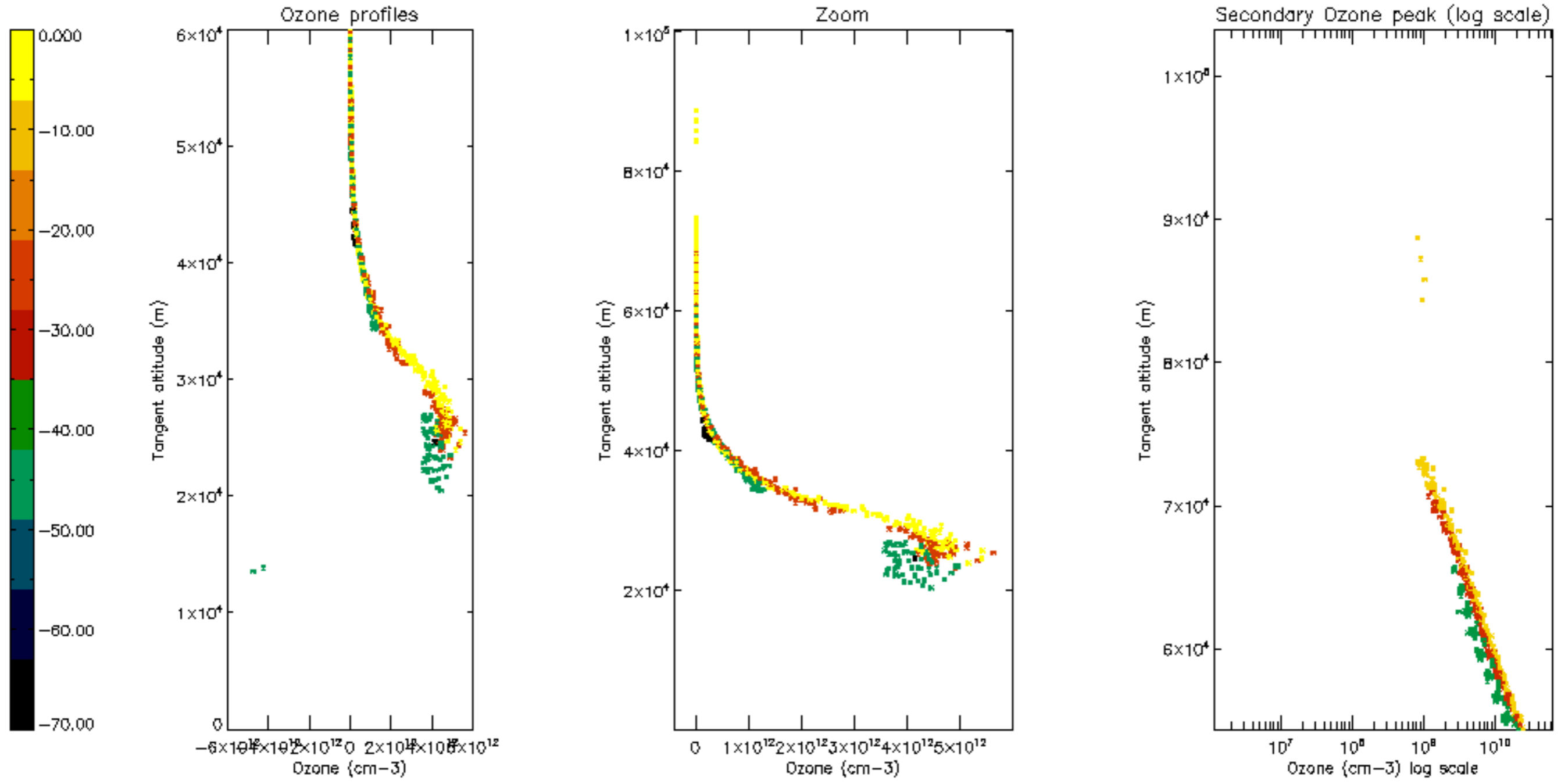
Percentage of saturation errors per profile

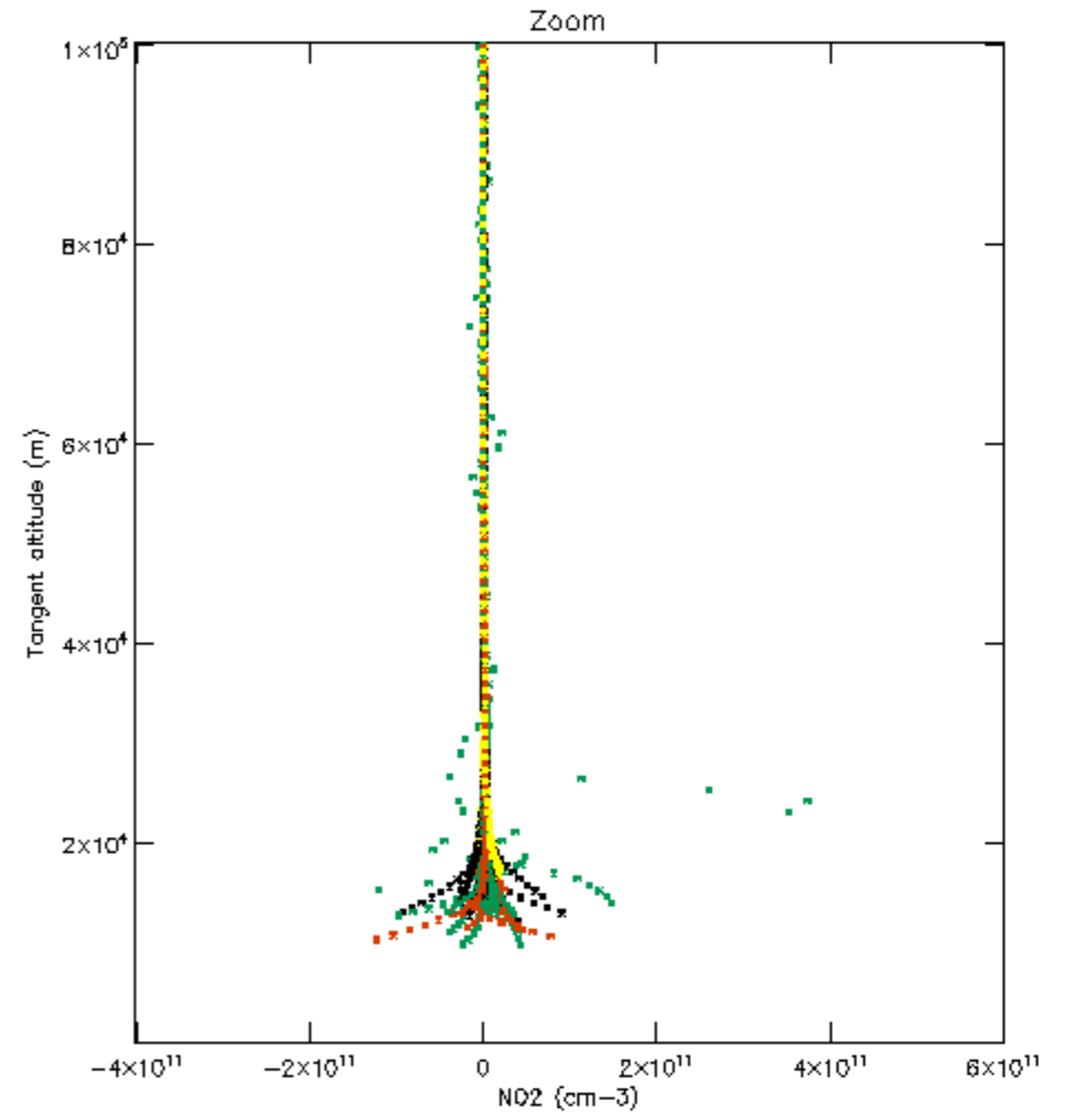
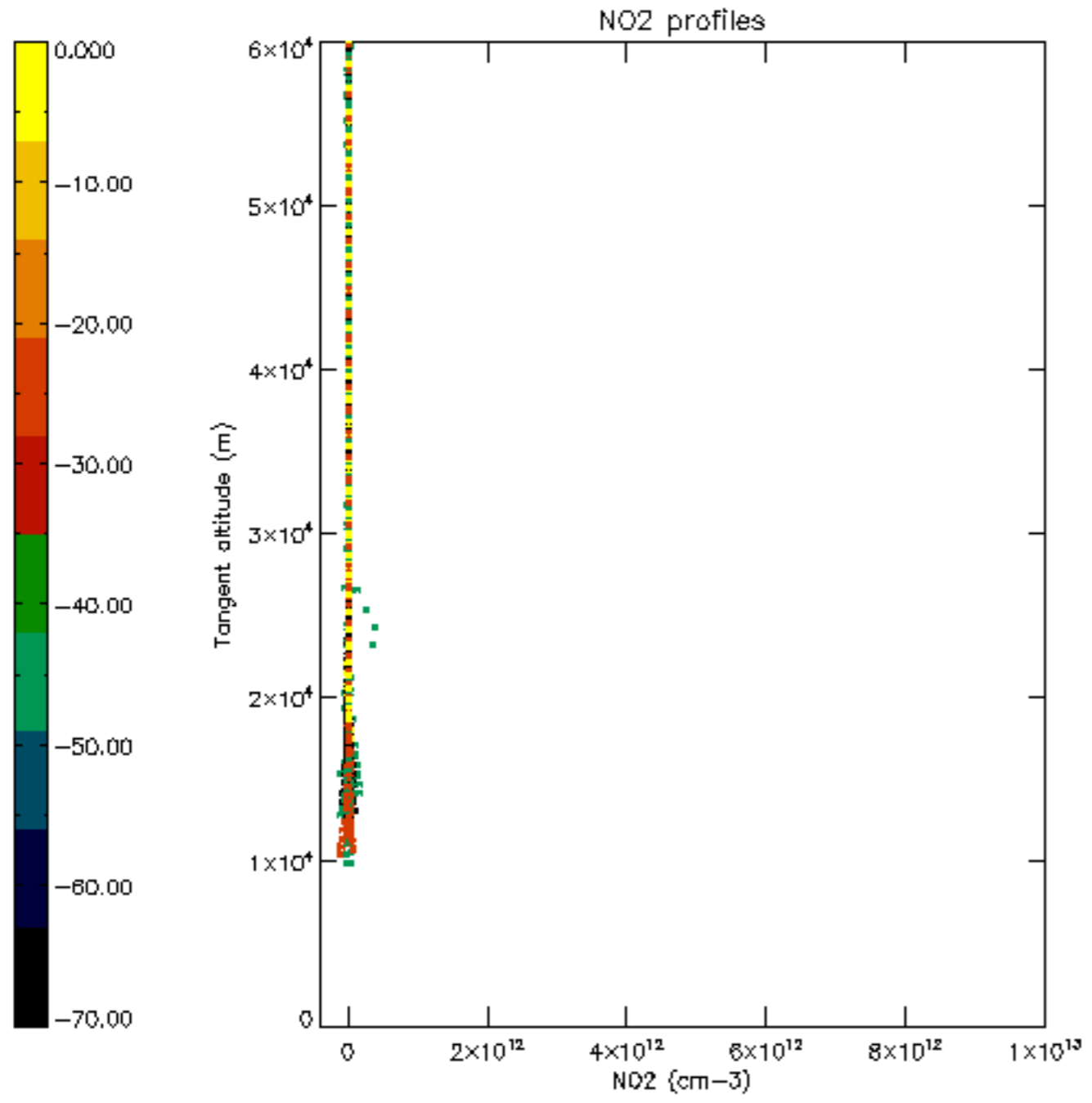


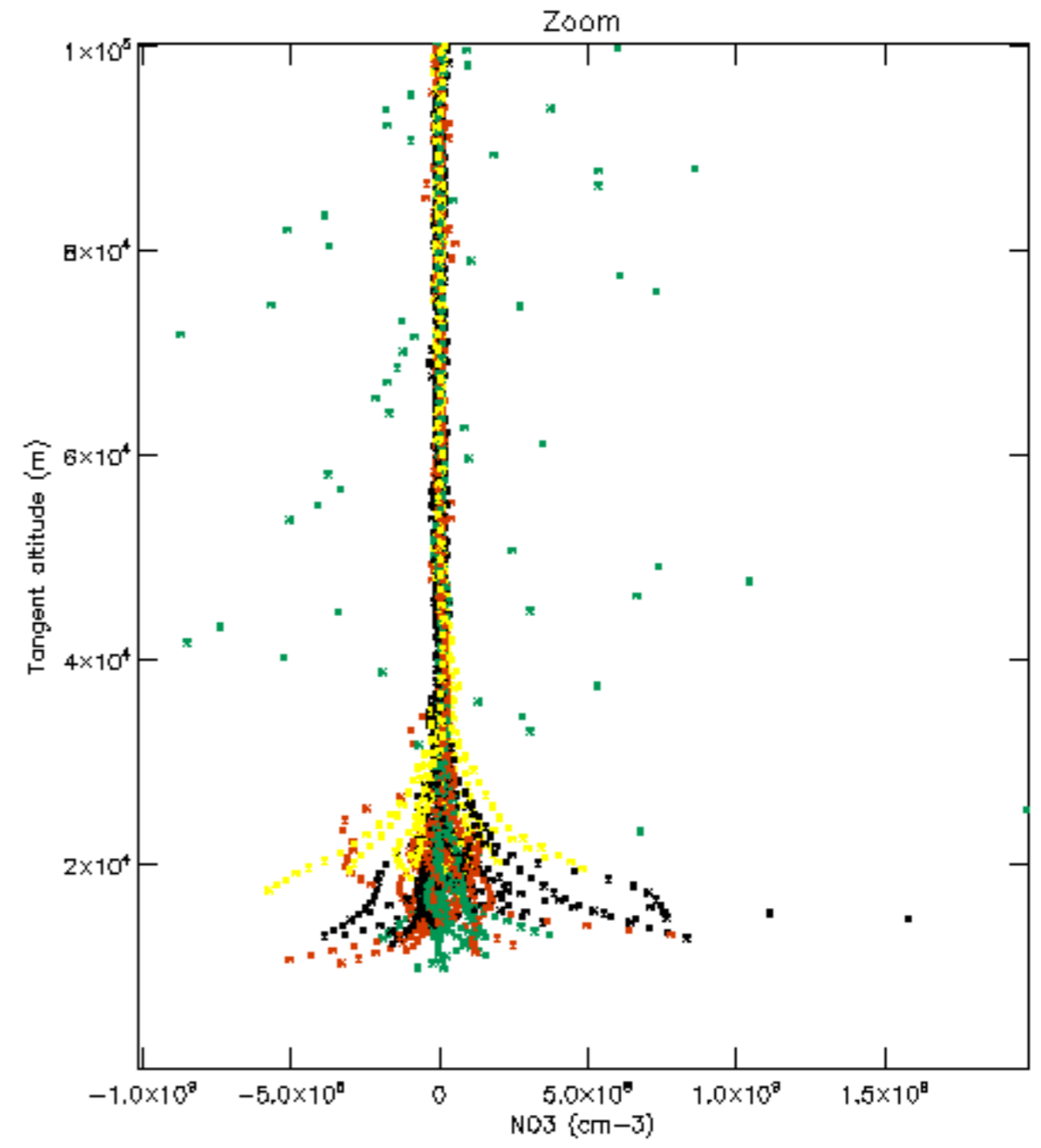
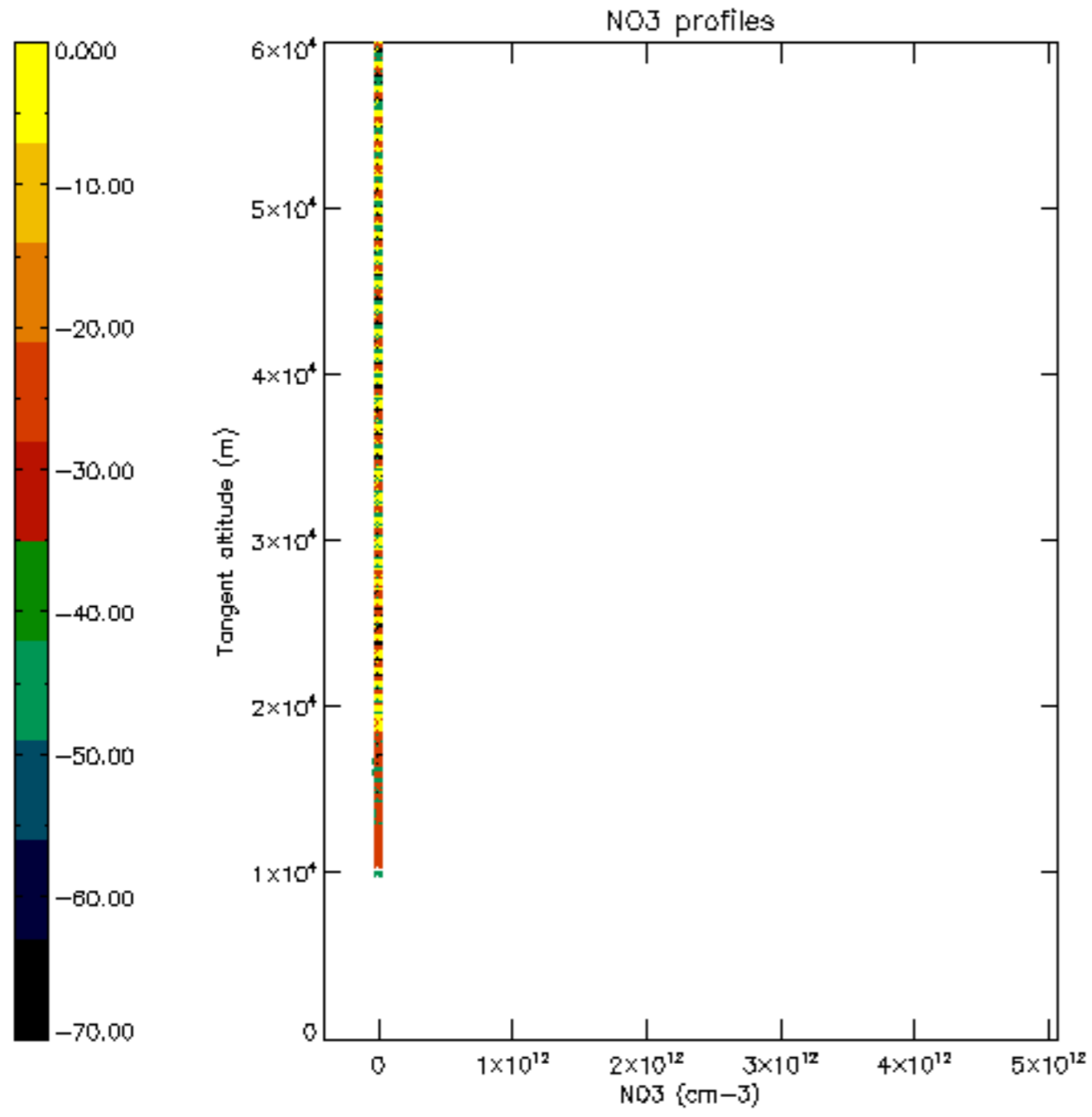


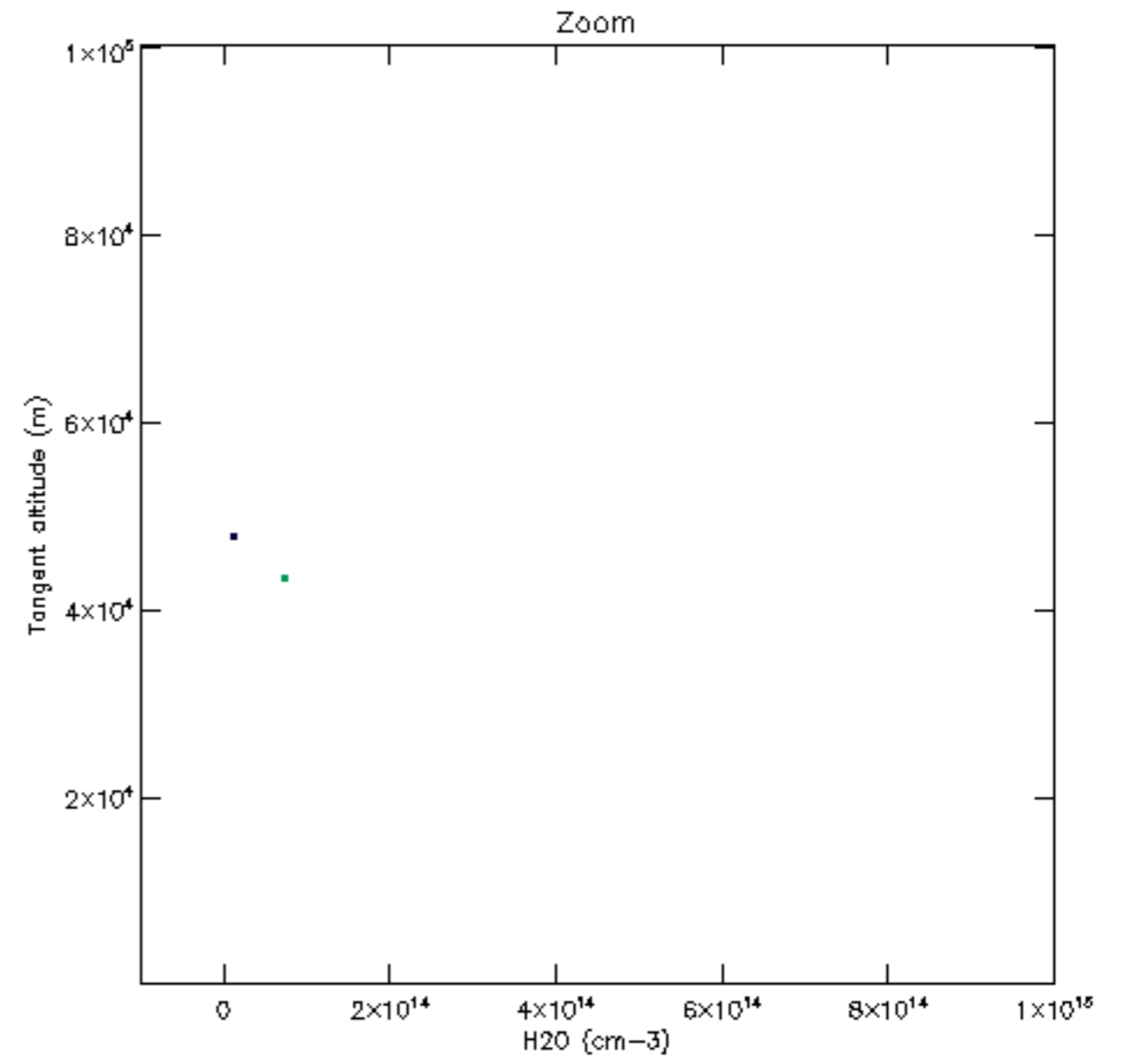
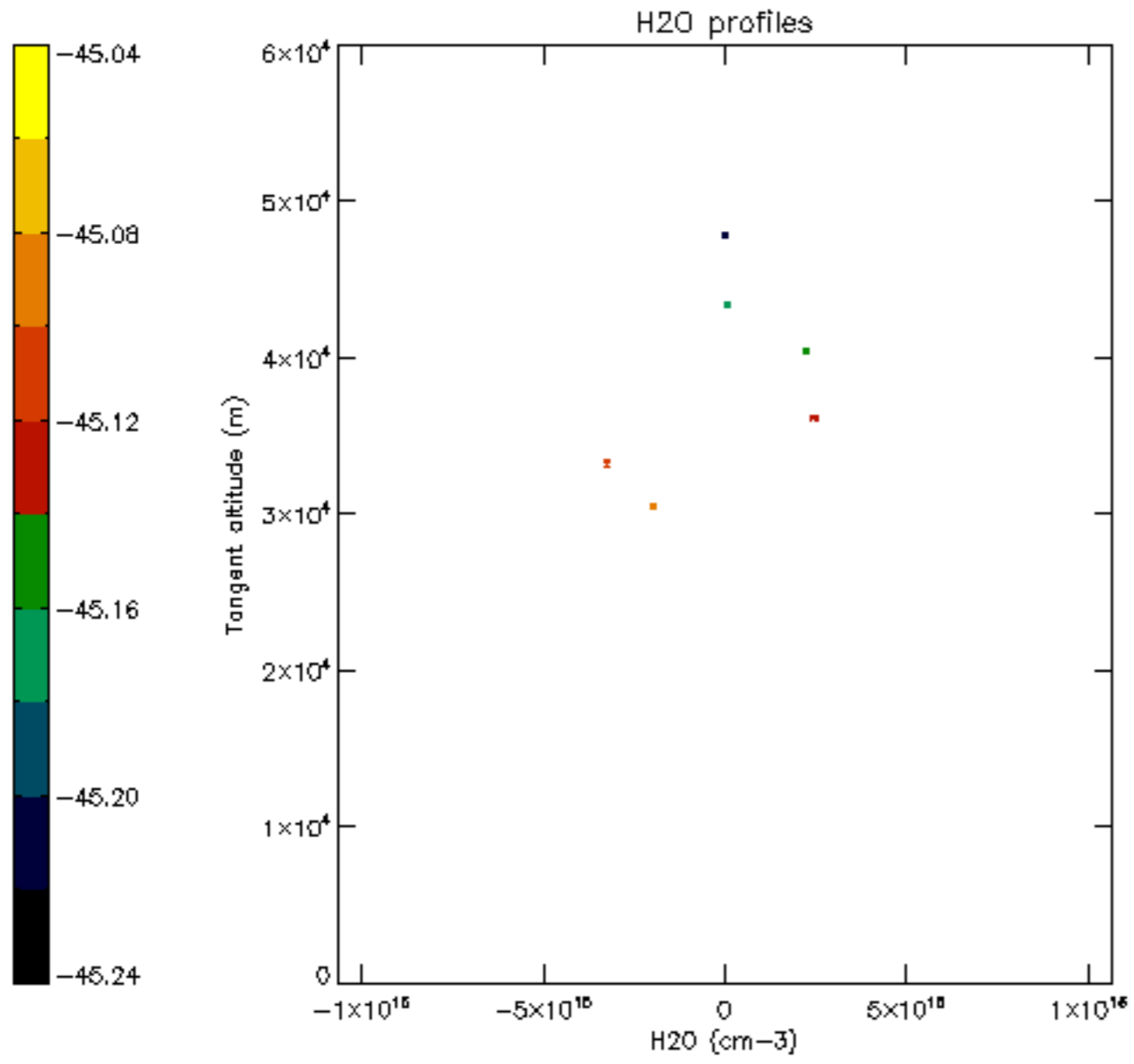


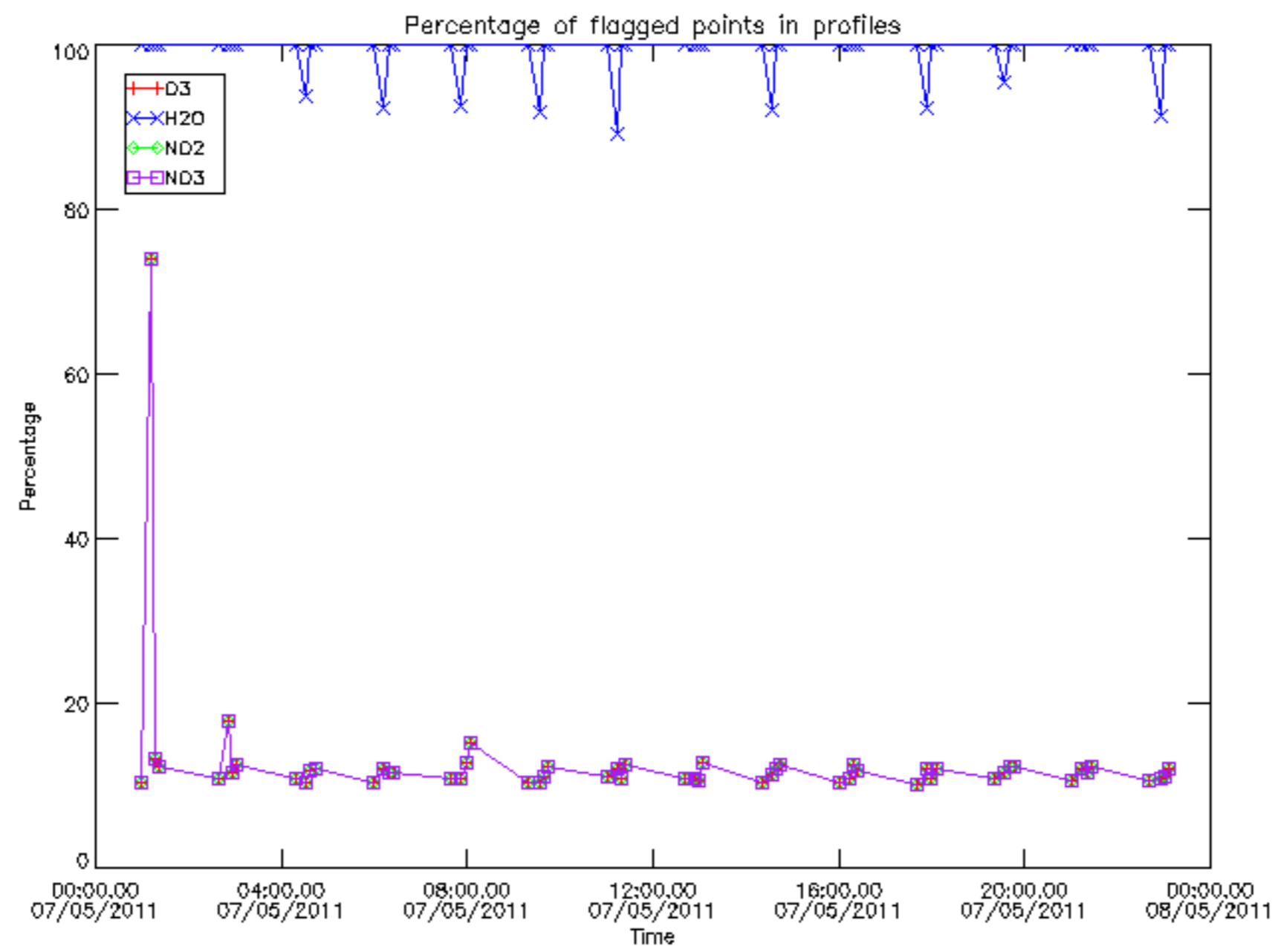




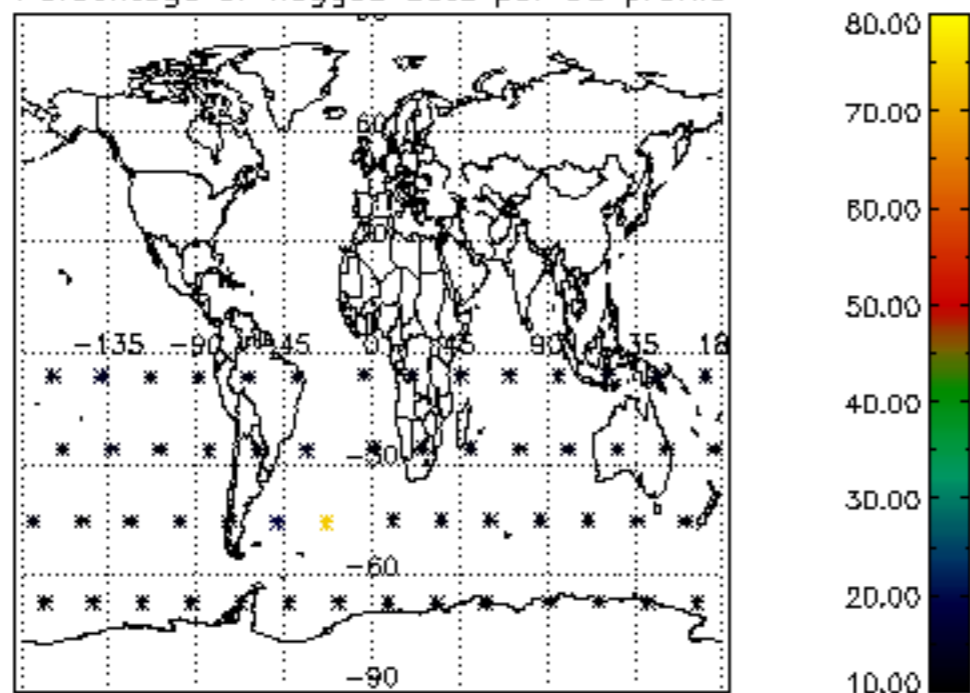




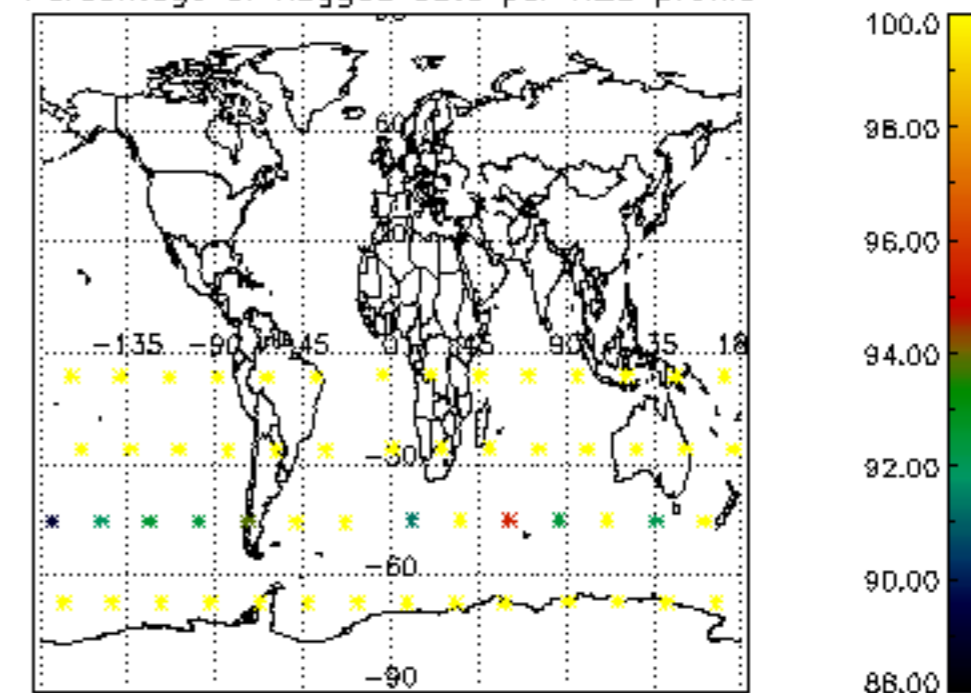




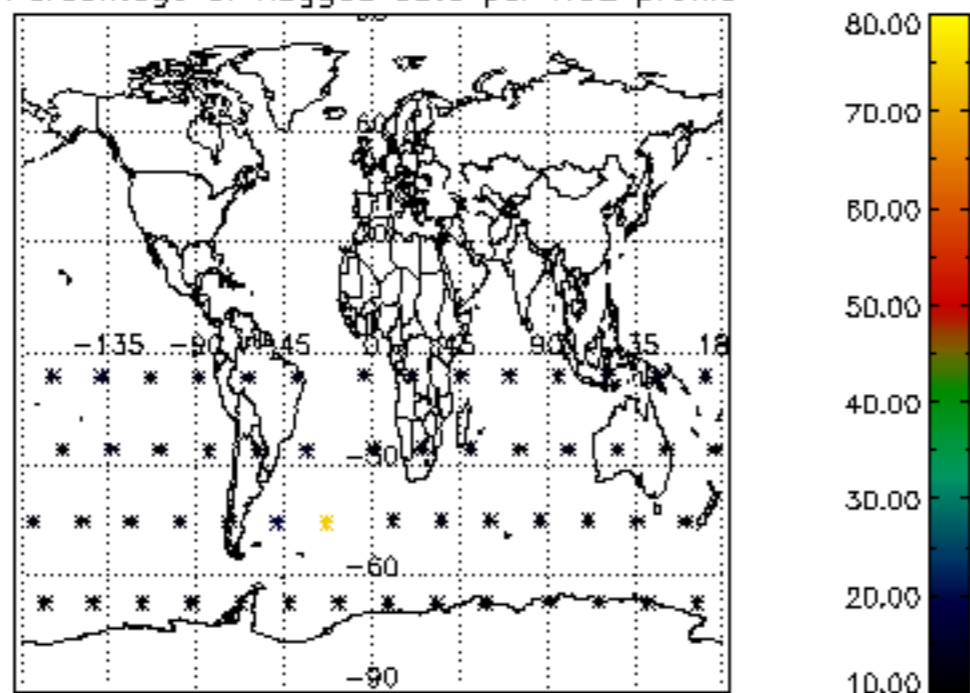
Percentage of flagged data per D3 profile



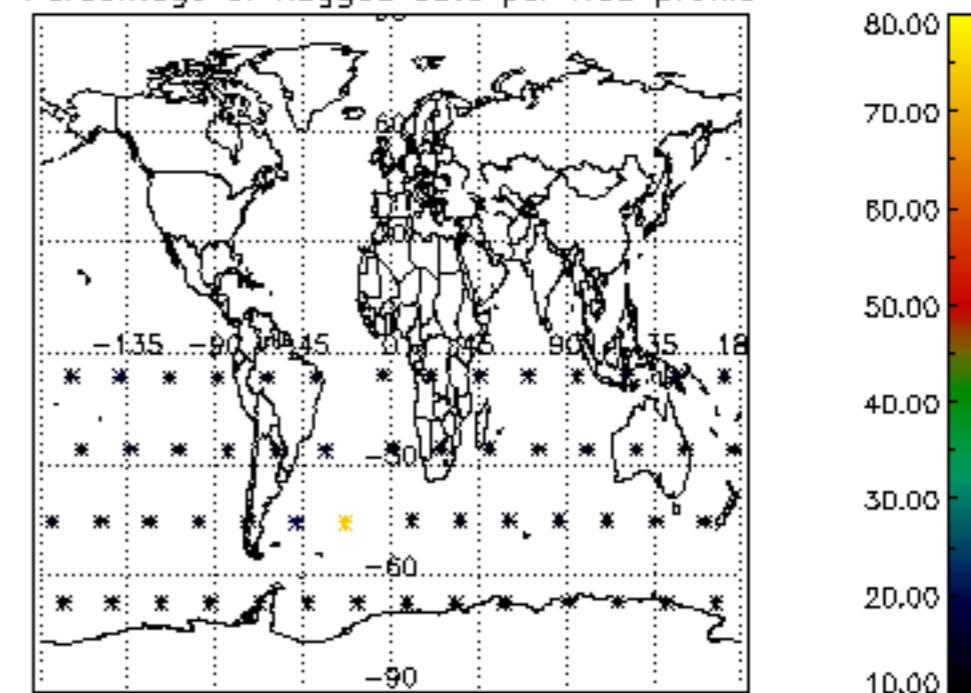
Percentage of flagged data per H2O profile

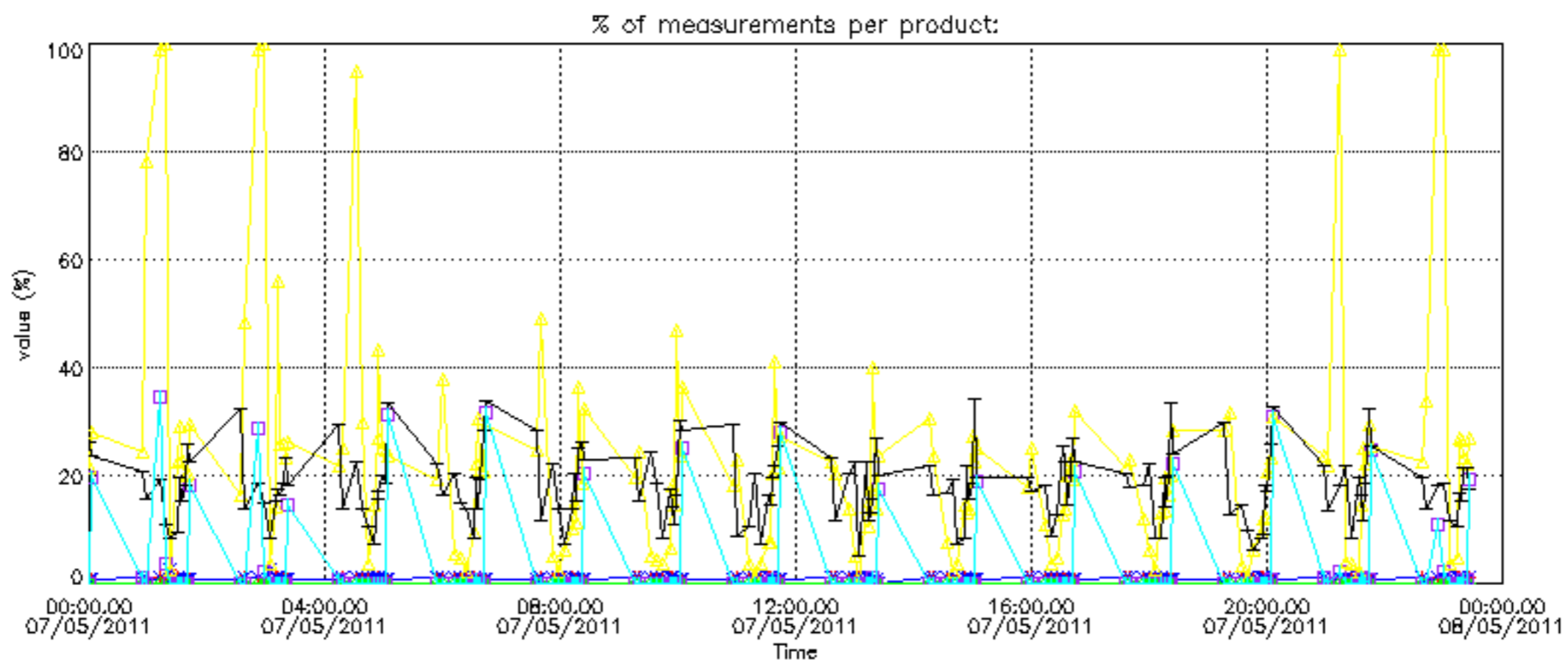


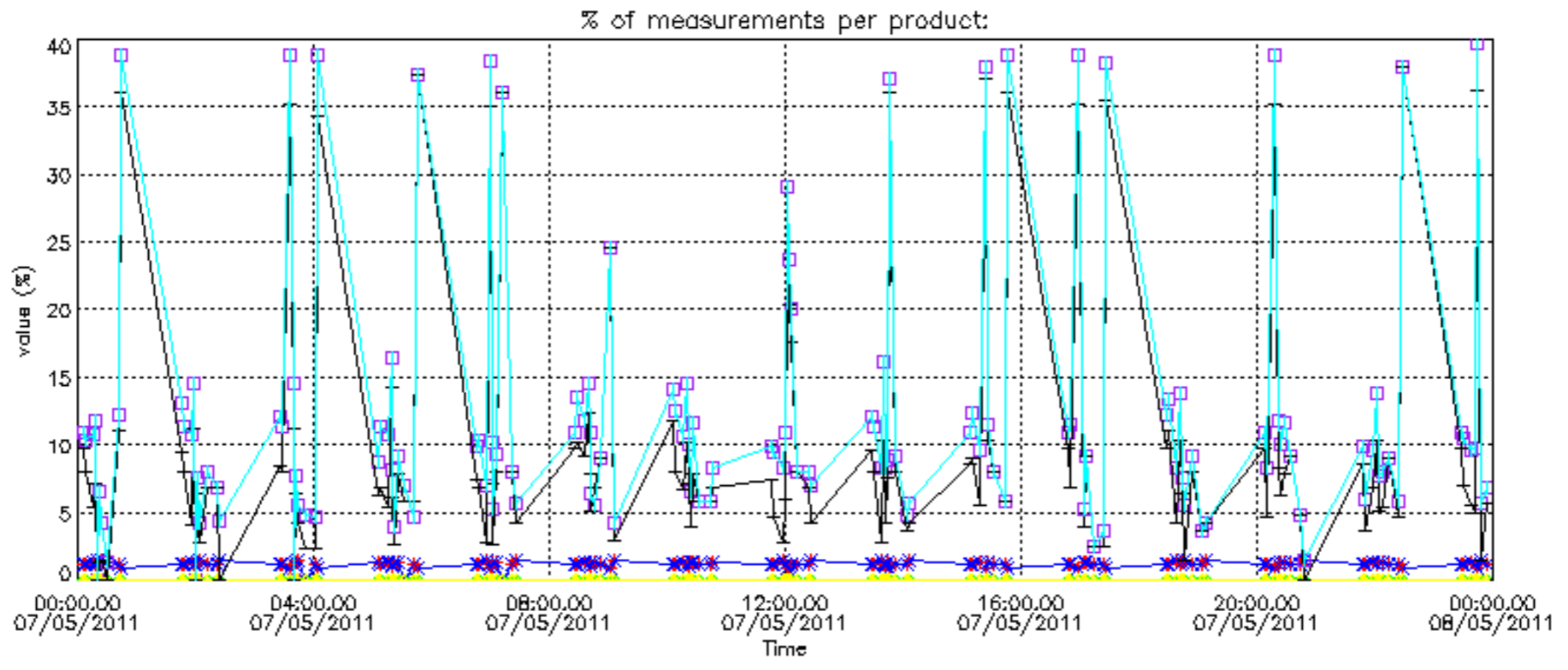
Percentage of flagged data per NO2 profile



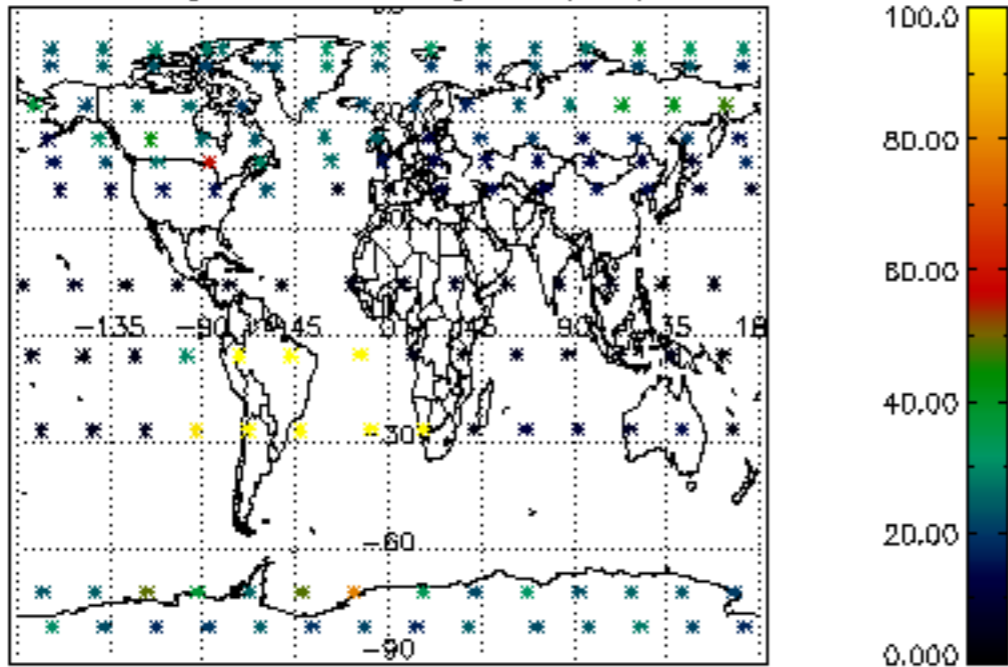
Percentage of flagged data per NO3 profile



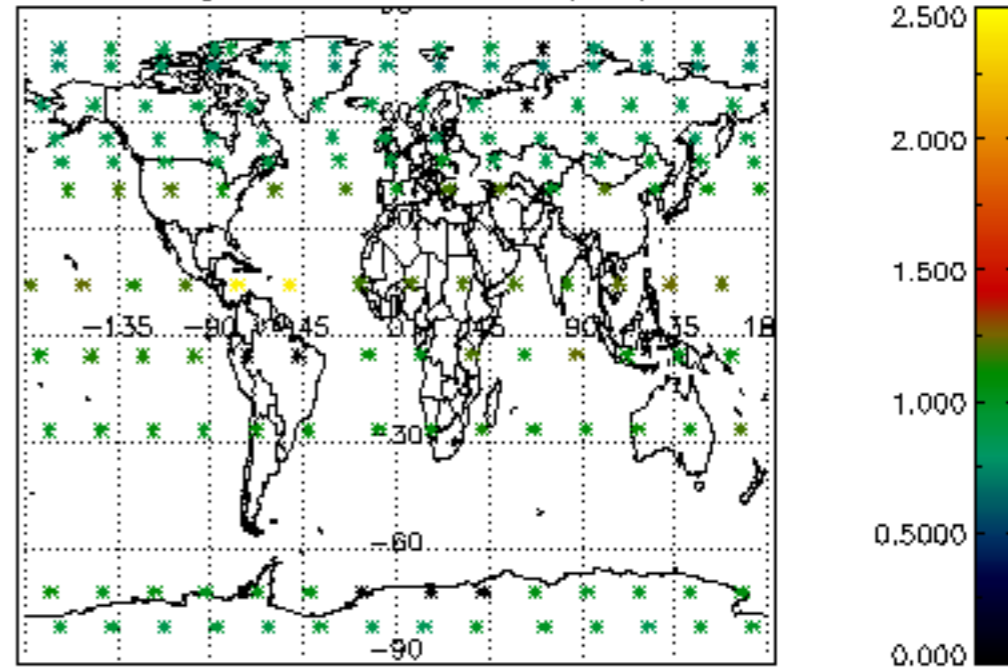




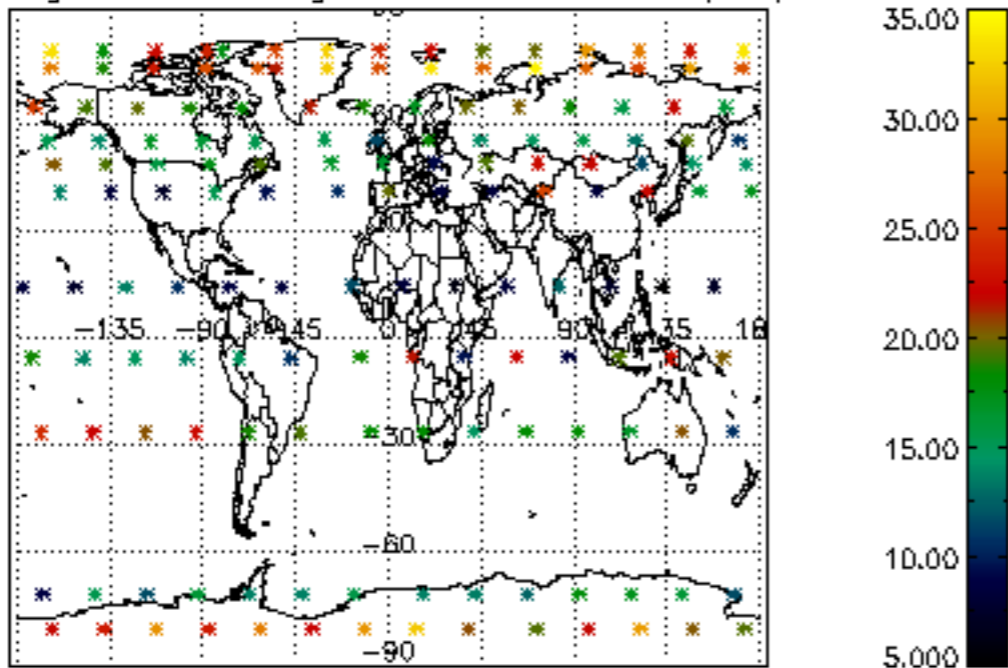
Percentage of cosmic ray hits per profile



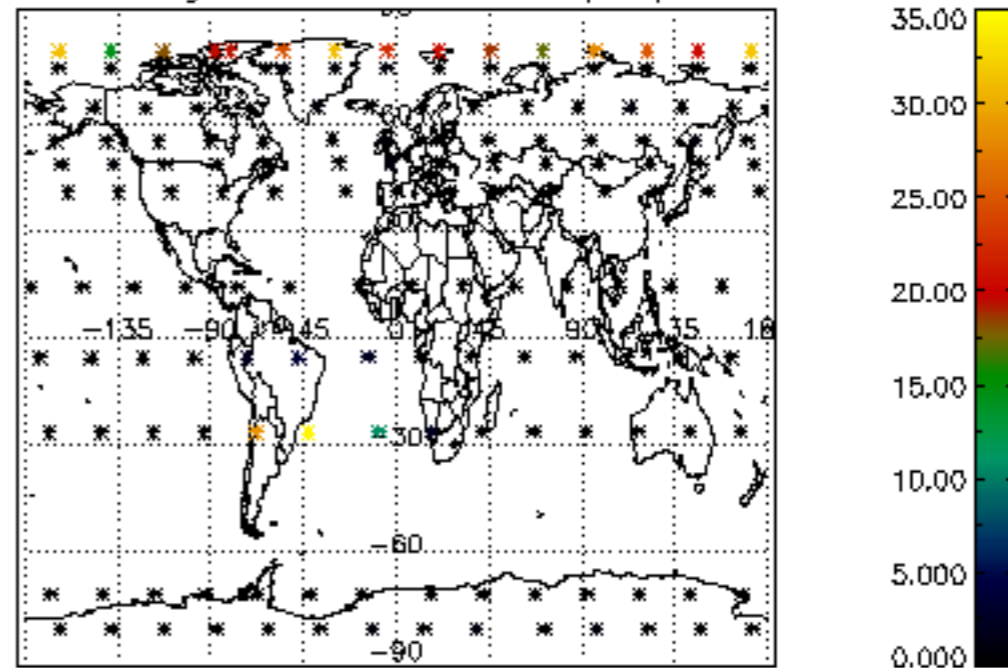
Percentage of datation errors per profile



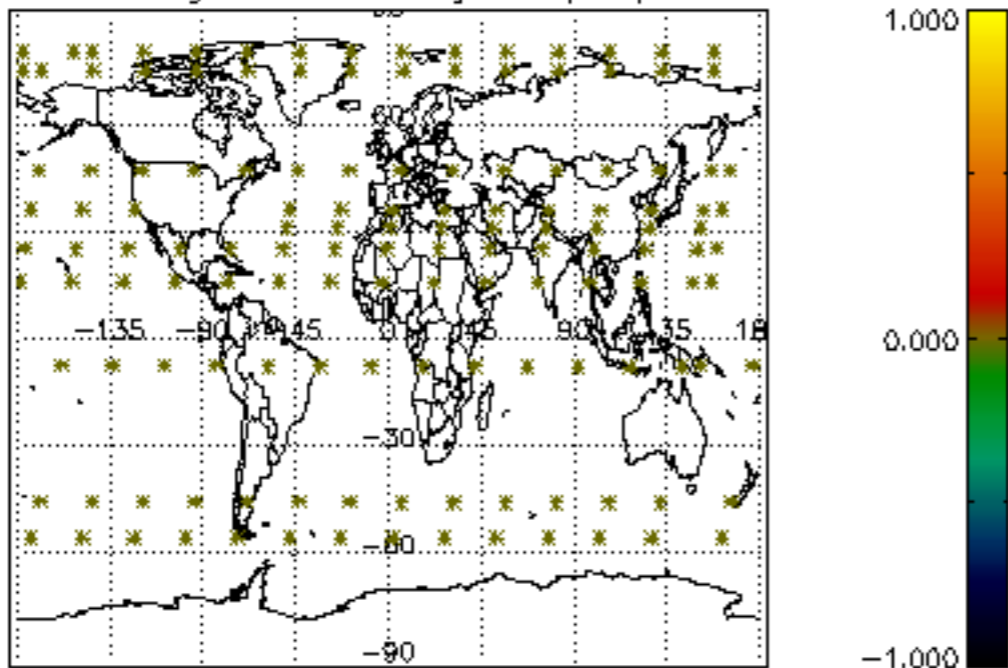
Percentage of star falling outside central band per profile



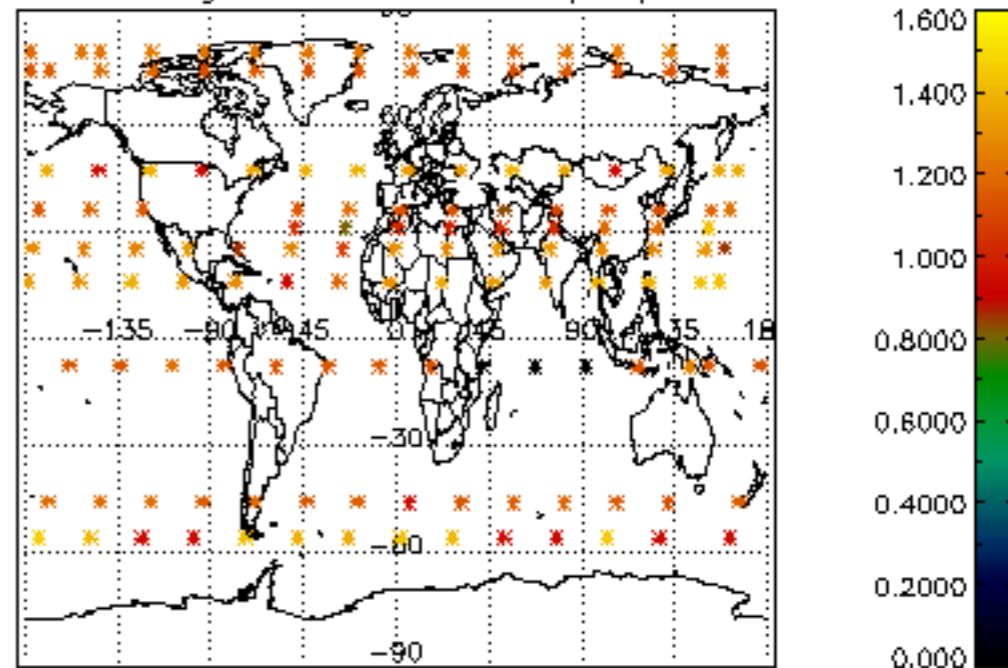
Percentage of saturation errors per profile



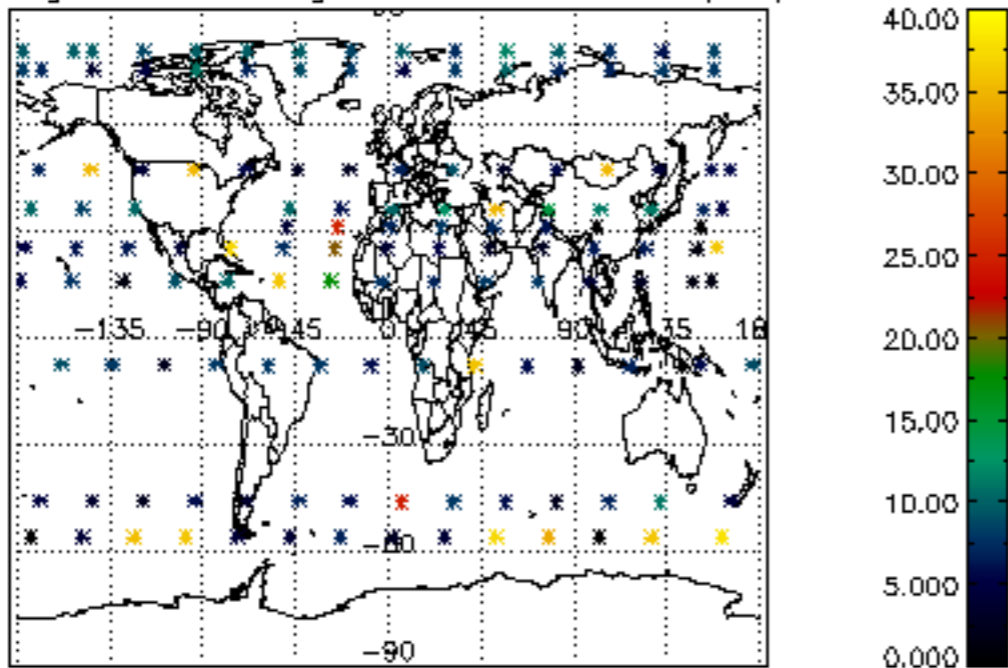
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

