

GOMOS Level 2 Daily Report

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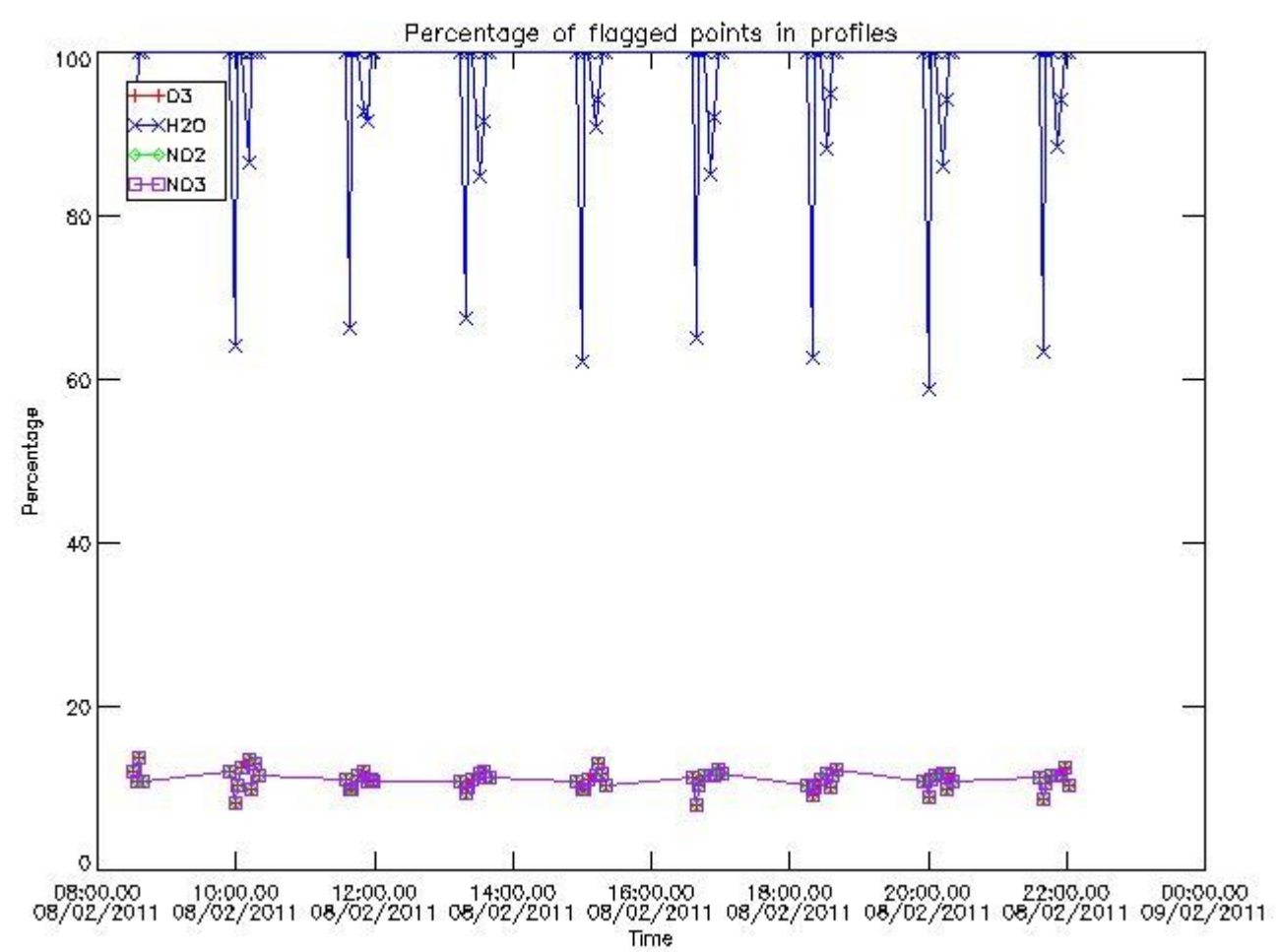
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102	GOM_NL__2PRFIN20110208_191848_000000493099_00200_46766_8326.N1	08-FEB-2011 19:18:48	Bright	48.500	82	48Bet UMa	2.3650	10600.	97	46766	No
103	GOM_NL__2PRFIN20110208_192549_000000383099_00200_46766_8327.N1	08-FEB-2011 19:25:49	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	46766	No
104	GOM_NL__2PRFIN20110208_193037_000000423099_00200_46766_8328.N1	08-FEB-2011 19:30:37	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	46766	No
105	GOM_NL__2PRFIN20110208_193407_000000403099_00200_46766_8329.N1	08-FEB-2011 19:34:07	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	46766	No
106	GOM_NL__2PRFIN20110208_194106_000000703099_00200_46766_8330.N1	08-FEB-2011 19:41:06	Bright	70.000	133	40Zet Her	2.8070	6000.0	140	46766	No
107	GOM_NL__2PRFIN20110208_194637_000000423099_00200_46766_8331.N1	08-FEB-2011 19:46:37	Bright	41.500	59	55Alp Oph	2.0800	8900.0	83	46766	No
108	GOM_NL__2PRFIN20110208_194849_000000583099_00200_46766_8332.N1	08-FEB-2011 19:48:49	Bright	58.000	126	60Bet Oph	2.7700	4250.0	116	46766	No
109	GOM_NL__2PRFIN20110208_195542_000000473099_00200_46766_8333.N1	08-FEB-2011 19:55:42	Dark	47.000	86	35Eta Oph	2.4300	10200.	94	46766	No
110	GOM_NL__2PRFIN20110208_200023_000000583099_00200_46766_8334.N1	08-FEB-2011 20:00:23	Dark	57.500	16	21Alp Sco	1.0200	3000.0	115	46766	No
111	GOM_NL__2PRFIN20110208_200212_000000503099_00200_46766_8335.N1	08-FEB-2011 20:02:12	Dark	50.000	158	6Pi Sco	2.9060	28000.	100	46766	No
112	GOM_NL__2PRFIN20110208_200619_000000453099_00200_46766_8336.N1	08-FEB-2011 20:06:19	Dark	44.500	131	Gam Lup	2.8000	26000.	89	46766	No
113	GOM_NL__2PRFIN20110208_201210_000000443099_00201_46767_8369.N1	08-FEB-2011 20:12:10	Dark	43.500	10	Bet Cen	0.61000	28000.	87	46767	No
114	GOM_NL__2PRFIN20110208_201524_000000523099_00201_46767_8370.N1	08-FEB-2011 20:15:24	Dark	52.000	12	Alp1Cru	0.77500	30000.	104	46767	No
115	GOM_NL__2PRFIN20110208_201750_000000443099_00201_46767_8371.N1	08-FEB-2011 20:17:50	Dark	43.500	99	Del Cen	2.5750	26000.	87	46767	No
116	GOM_NL__2PRFIN20110208_202110_000000473099_00201_46767_8372.N1	08-FEB-2011 20:21:10	Dark	46.500	113	Mu Vel	2.6920	5000.0	93	46767	No
117	GOM_NL__2PRFIN20110208_203525_000000533099_00201_46767_8373.N1	08-FEB-2011 20:35:25	Straylight	52.500	48	30Alp Hya	1.9770	4100.0	105	46767	No
118	GOM_NL__2PRFIN20110208_205901_000000483099_00201_46767_8374.N1	08-FEB-2011 20:59:01	Bright	47.500	82	48Bet UMa	2.3650	10600.	95	46767	No
119	GOM_NL__2PRFIN20110208_210603_000000383099_00201_46767_8375.N1	08-FEB-2011 21:06:03	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	46767	No
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121	GOM_NL__2PRFIN20110208_211421_000000403099_00201_46767_8377.N1	08-FEB-2011 21:14:21	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	46767	No
122	GOM_NL__2PRFIN20110208_212120_000000473099_00201_46767_8378.N1	08-FEB-2011 21:21:20	Bright	47.000	133	40Zet Her	2.8070	6000.0	94	46767	No
123	GOM_NL__2PRFIN20110208_212652_000000603099_00201_46767_8379.N1	08-FEB-2011 21:26:52	Bright	60.000	59	55Alp Oph	2.0800	8900.0	120	46767	No
124	GOM_NL__2PRFIN20110208_212903_000000583099_00201_46767_8380.N1	08-FEB-2011 21:29:03	Bright	57.500	126	60Bet Oph	2.7700	4250.0	115	46767	No
125	GOM_NL__2PRFIN20110208_213557_000000453099_00201_46767_8381.N1	08-FEB-2011 21:35:57	Dark	45.000	86	35Eta Oph	2.4300	10200.	90	46767	No
126	GOM_NL__2PRFIN20110208_214038_000000593099_00201_46767_8382.N1	08-FEB-2011 21:40:38	Dark	59.000	16	21Alp Sco	1.0200	3000.0	118	46767	No
127	GOM_NL__2PRFIN20110208_214227_000000533099_00201_46767_8383.N1	08-FEB-2011 21:42:27	Dark	52.500	158	6Pi Sco	2.9060	28000.	105	46767	No
128	GOM_NL__2PRFIN20110208_214634_000000453099_00201_46767_8384.N1	08-FEB-2011 21:46:34	Dark	44.500	131	Gam Lup	2.8000	26000.	89	46767	No
129	GOM_NL__2PRFIN20110208_215224_000000443099_00202_46768_8398.N1	08-FEB-2011 21:52:24	Dark	44.000	10	Bet Cen	0.61000	28000.	88	46768	No
130	GOM_NL__2PRFIN20110208_215538_000000443099_00202_46768_8399.N1	08-FEB-2011 21:55:38	Dark	44.000	12	Alp1Cru	0.77500	30000.	88	46768	No
131	GOM_NL__2PRFIN20110208_215805_000000453099_00202_46768_8400.N1	08-FEB-2011 21:58:05	Dark	45.000	99	Del Cen	2.5750	26000.	90	46768	No
132	GOM_NL__2PRFIN20110208_220124_000000493099_00202_46768_8401.N1	08-FEB-2011 22:01:24	Dark	49.000	113	Mu Vel	2.6920	5000.0	98	46768	No
133	GOM_NL__2PRFIN20110208_221539_000000563099_00202_46768_8402.N1	08-FEB-2011 22:15:39	Straylight	56.000	48	30Alp Hya	1.9770	4100.0	112	46768	No
134	GOM_NL__2PRFIN20110208_223915_000000473099_00202_46768_8403.N1	08-FEB-2011 22:39:15	Bright	47.000	82	48Bet UMa	2.3650	10600.	94	46768	No
135	GOM_NL__2PRFIN20110208_224616_000000423099_00202_46768_8404.N1	08-FEB-2011 22:46:16	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	46768	No
136	GOM_NL__2PRFIN20110208_225105_000000543099_00202_46768_8405.N1	08-FEB-2011 22:51:05	Bright	53.500	119	14Eta Dra	2.7270	4700.0	107	46768	No
137	GOM_NL__2PRFIN20110208_225435_000000393099_00202_46768_8406.N1	08-FEB-2011 22:54:35	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	46768	No
138	GOM_NL__2PRFIN20110208_230134_000000703099_00202_46768_8407.N1	08-FEB-2011 23:01:34	Bright	70.000	133	40Zet Her	2.8070	6000.0	140	46768	No
139	GOM_NL__2PRFIN20110208_230706_000000603099_00202_46768_8408.N1	08-FEB-2011 23:07:06	Bright	60.000	59	55Alp Oph	2.0800	8900.0	120	46768	No
140	GOM_NL__2PRFIN20110208_230918_000000583099_00202_46768_8409.N1	08-FEB-2011 23:09:18	Bright	58.000	126	60Bet Oph	2.7700	4250.0	116	46768	No

3. Quality information per product

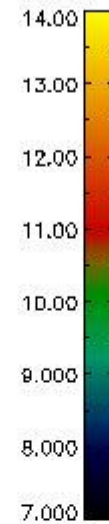
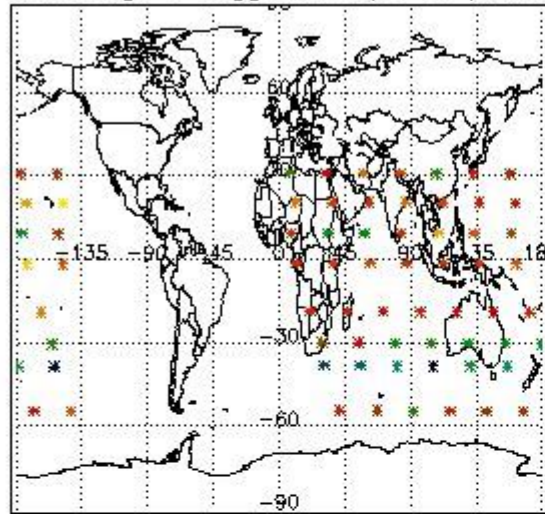
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

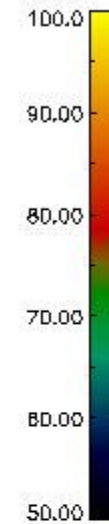
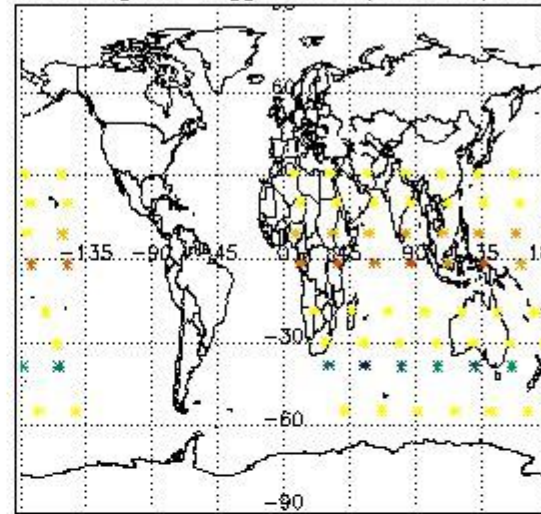


3.2 Plot quality information per product (world map)

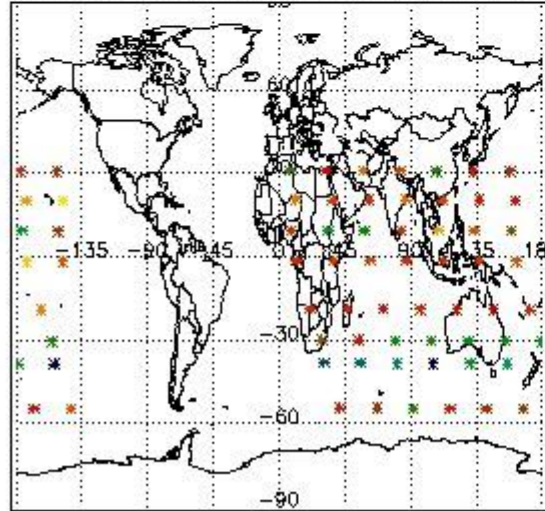
Percentage of flagged data per O3 profile



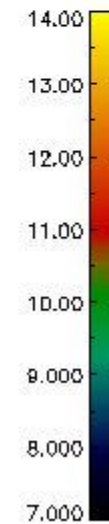
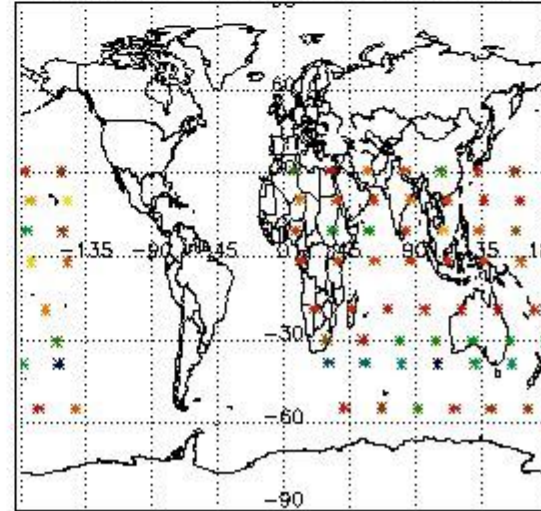
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

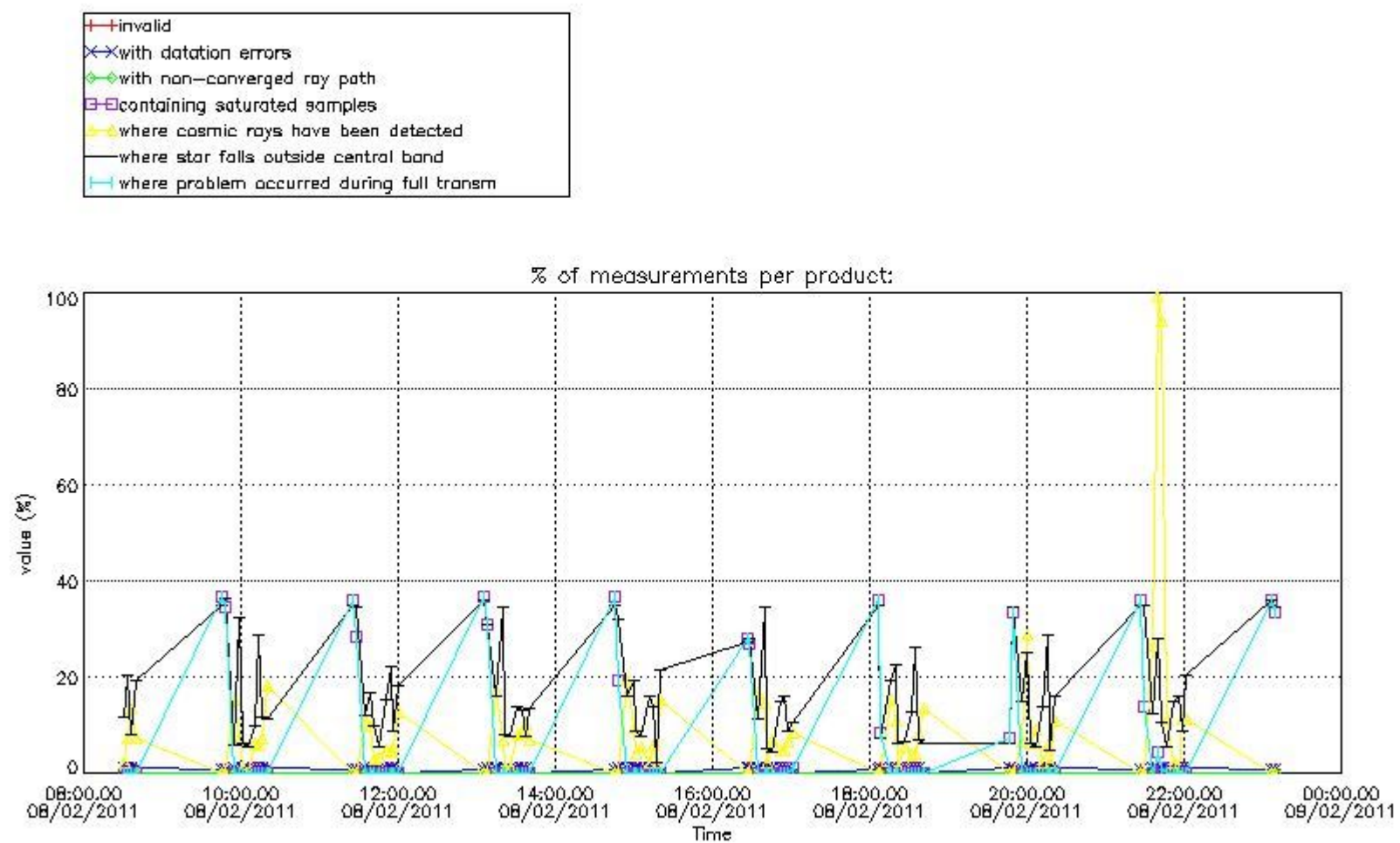


4. Level 1 quality information per product

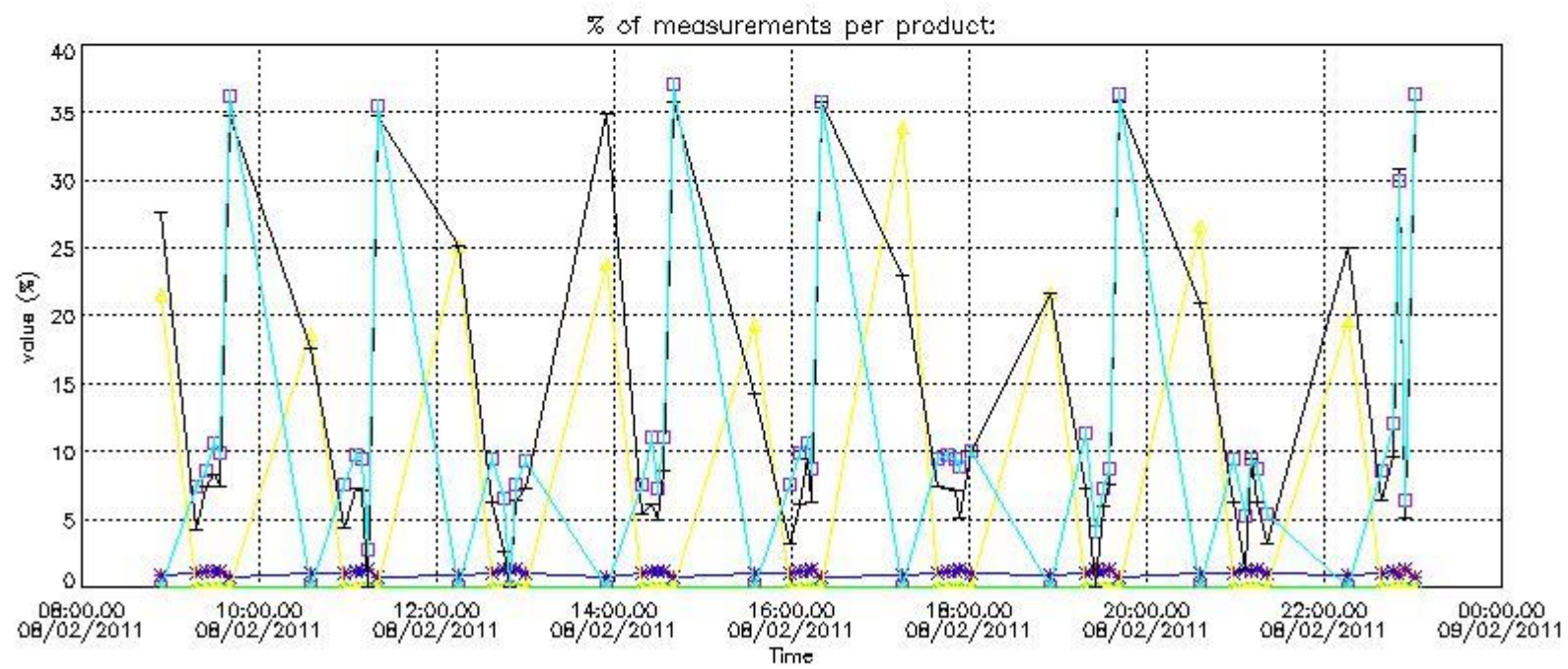
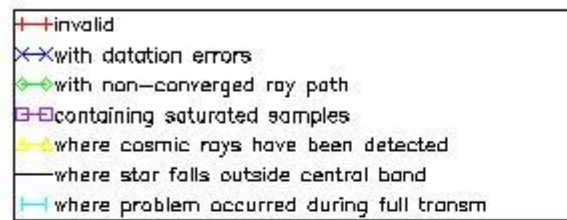
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



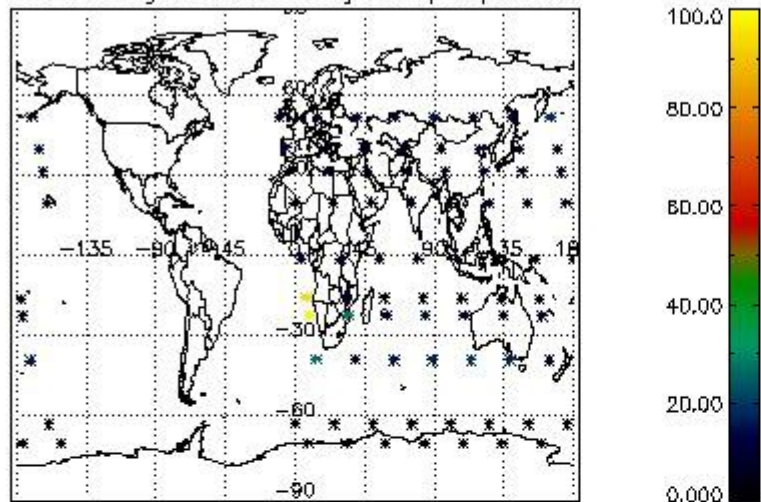
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



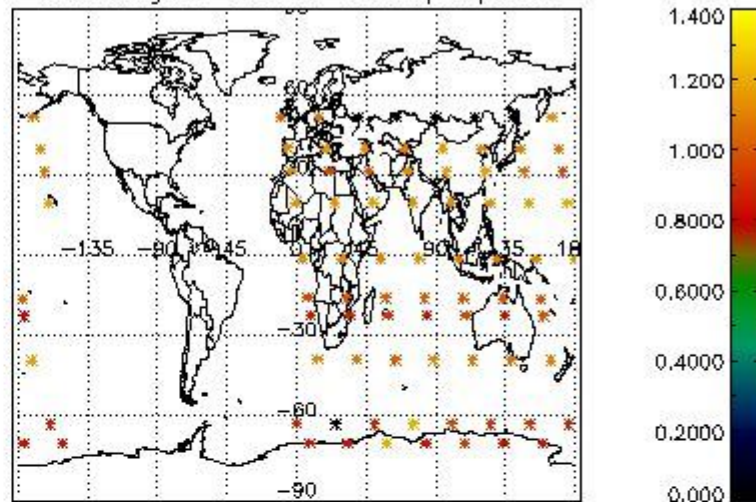
4.2 Plot quality information per product coming from level 1b processing (world map)

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

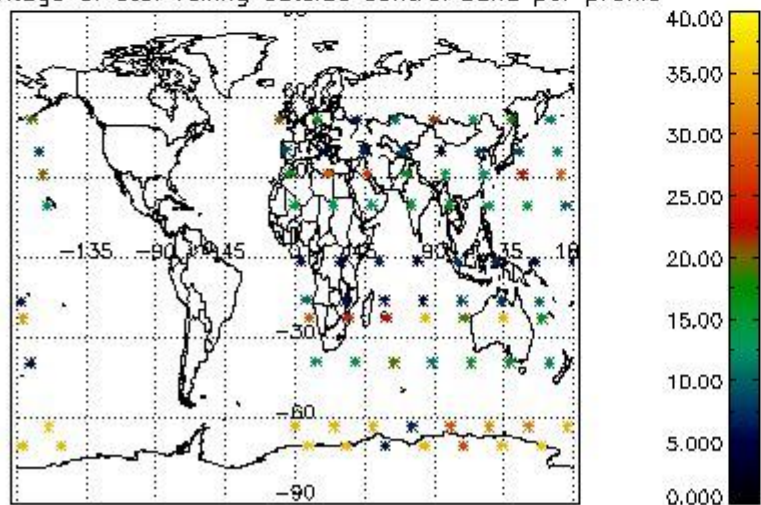
Percentage of cosmic ray hits per profile



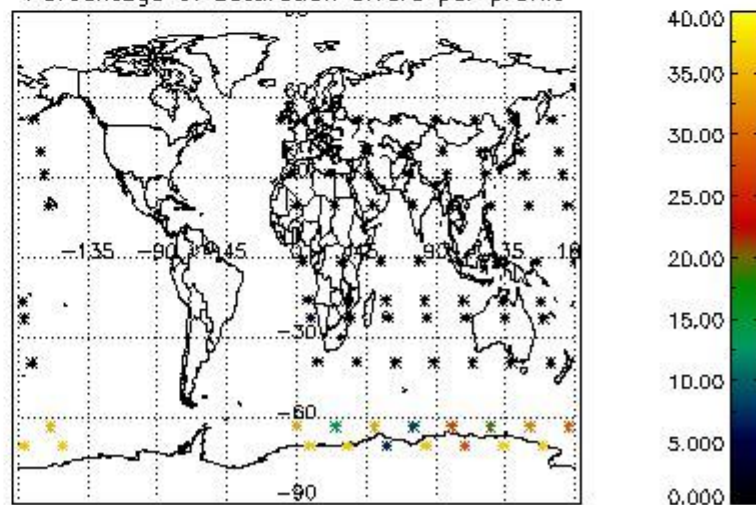
Percentage of datation errors per profile



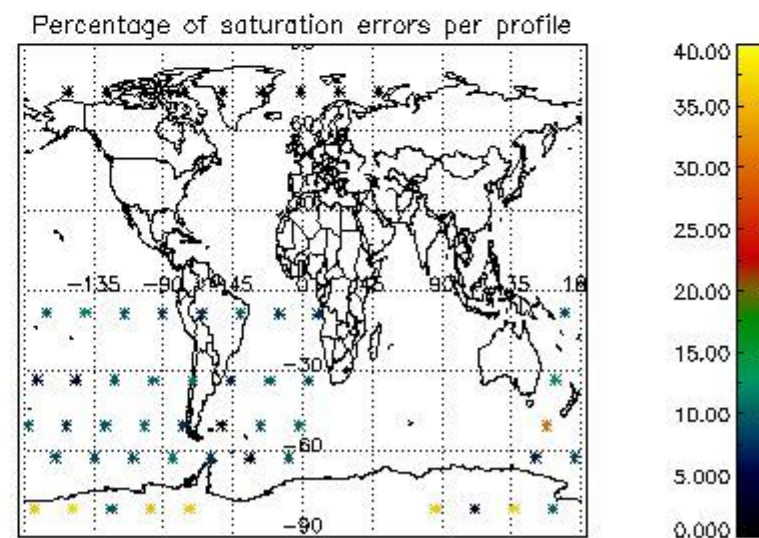
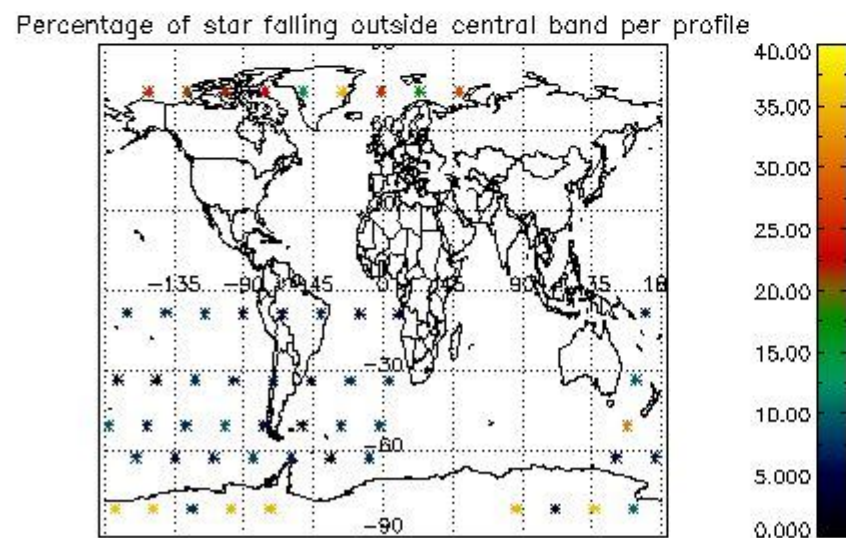
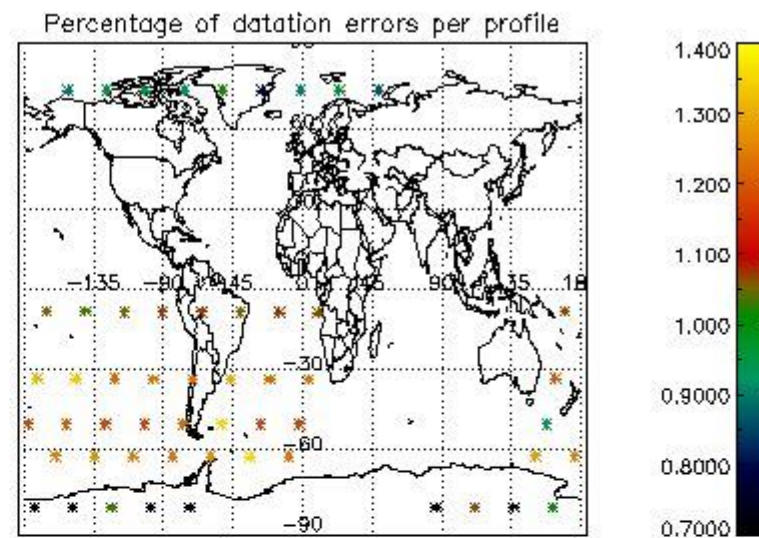
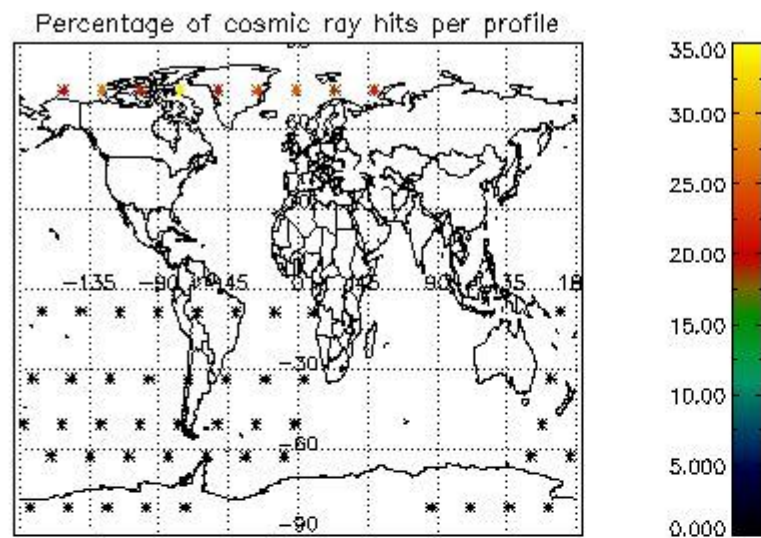
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

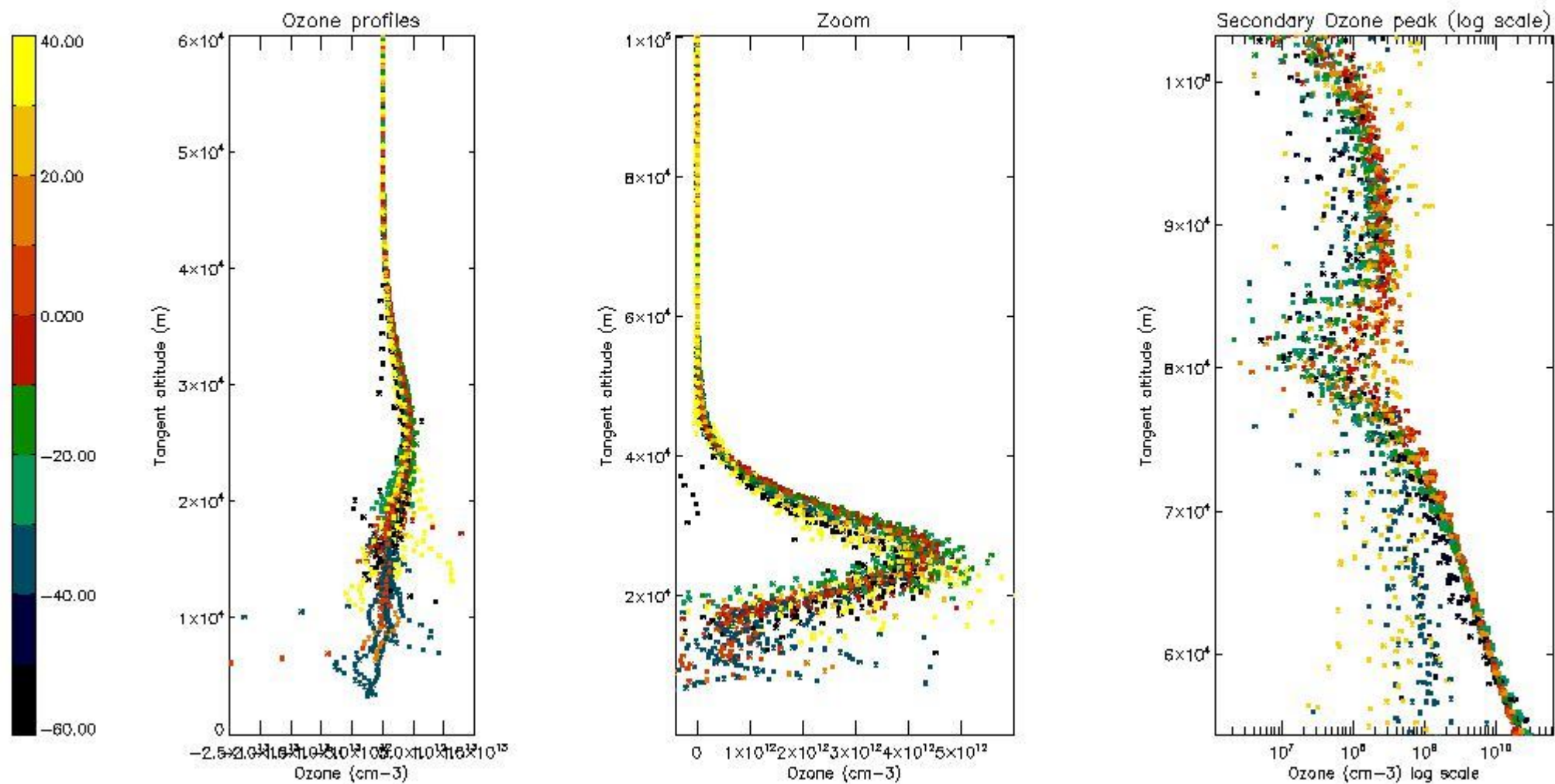
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	48
STD < 20	25

STD < 10	21
STD < 5	14

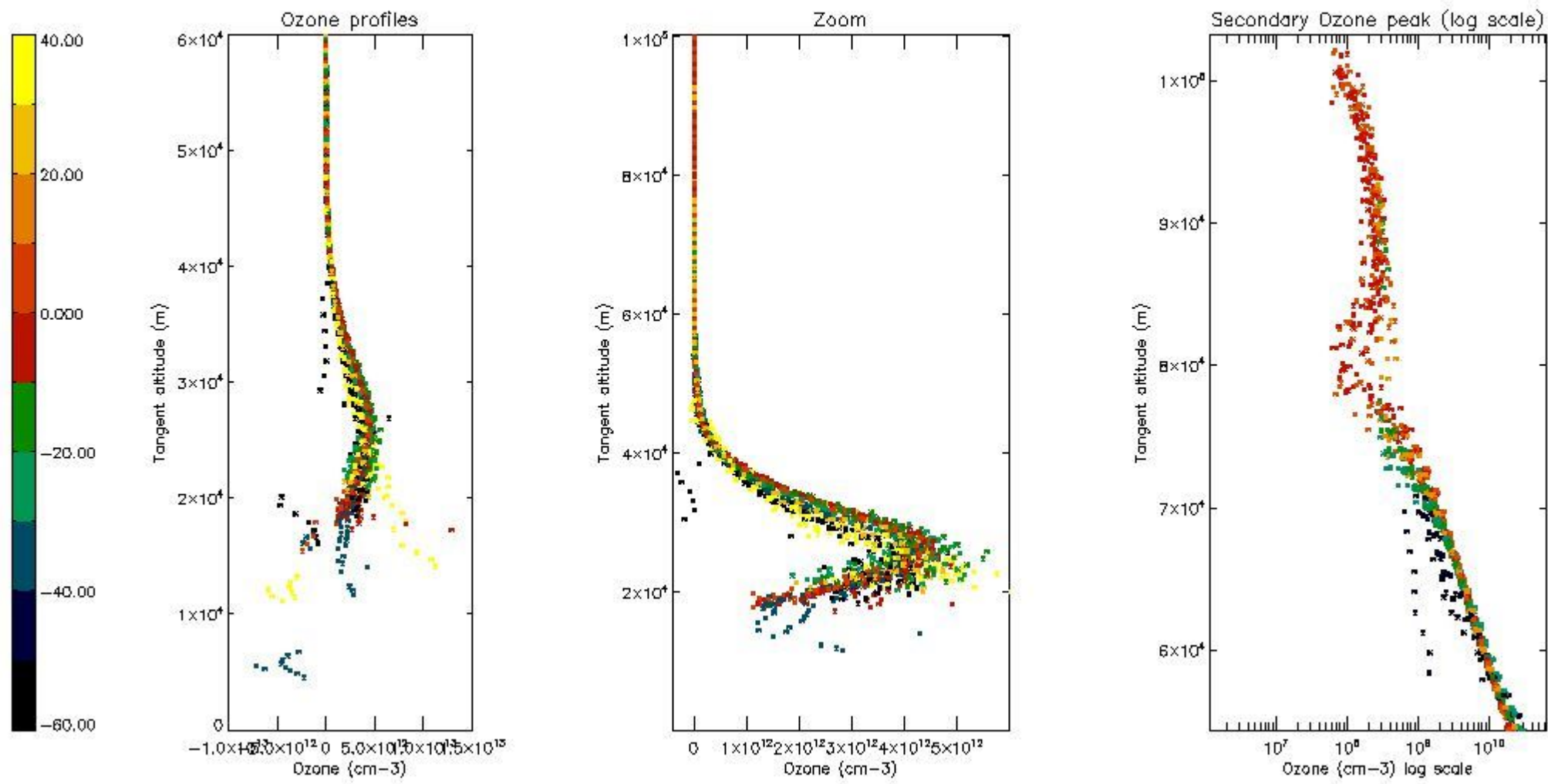
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



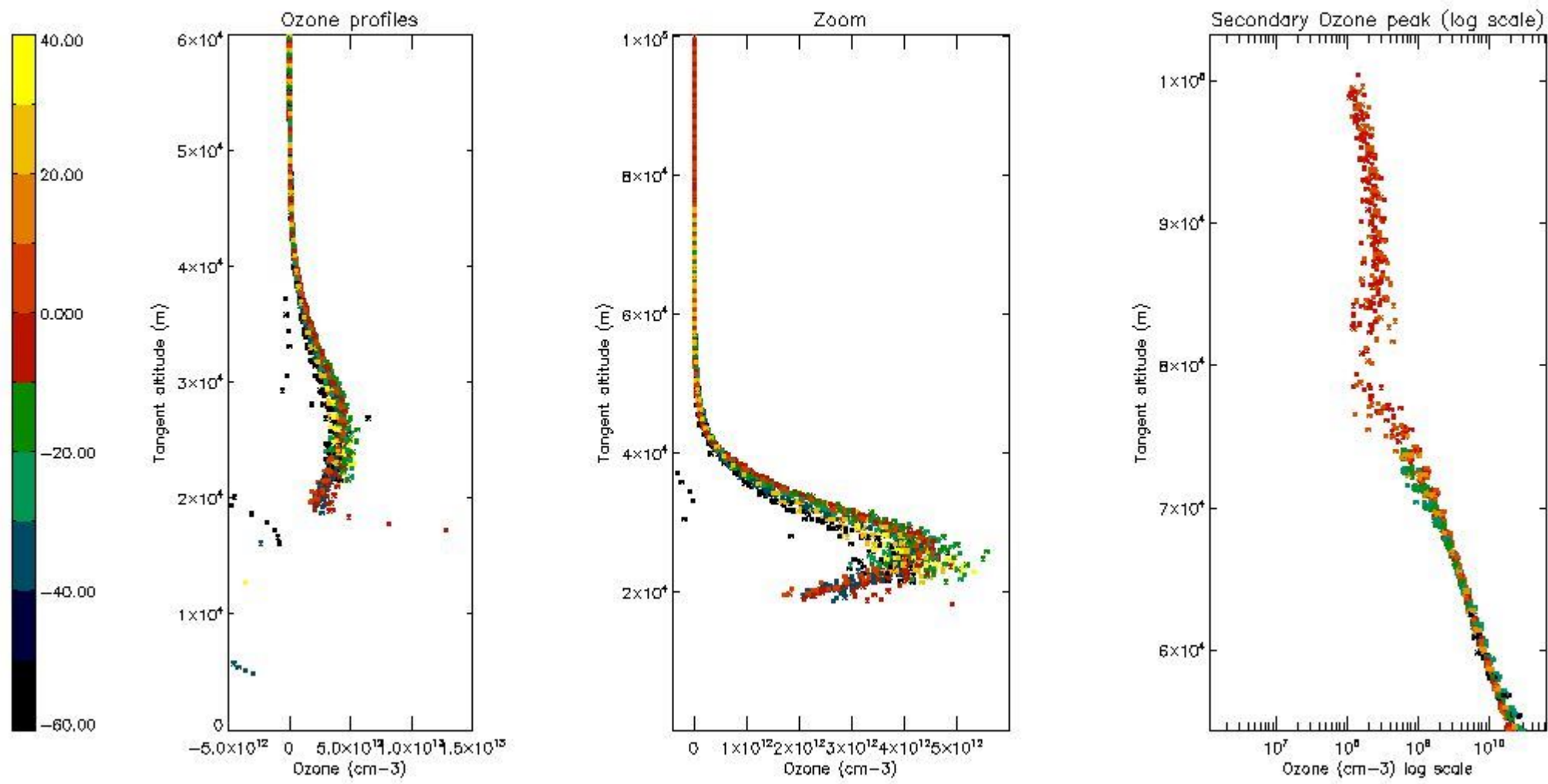
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



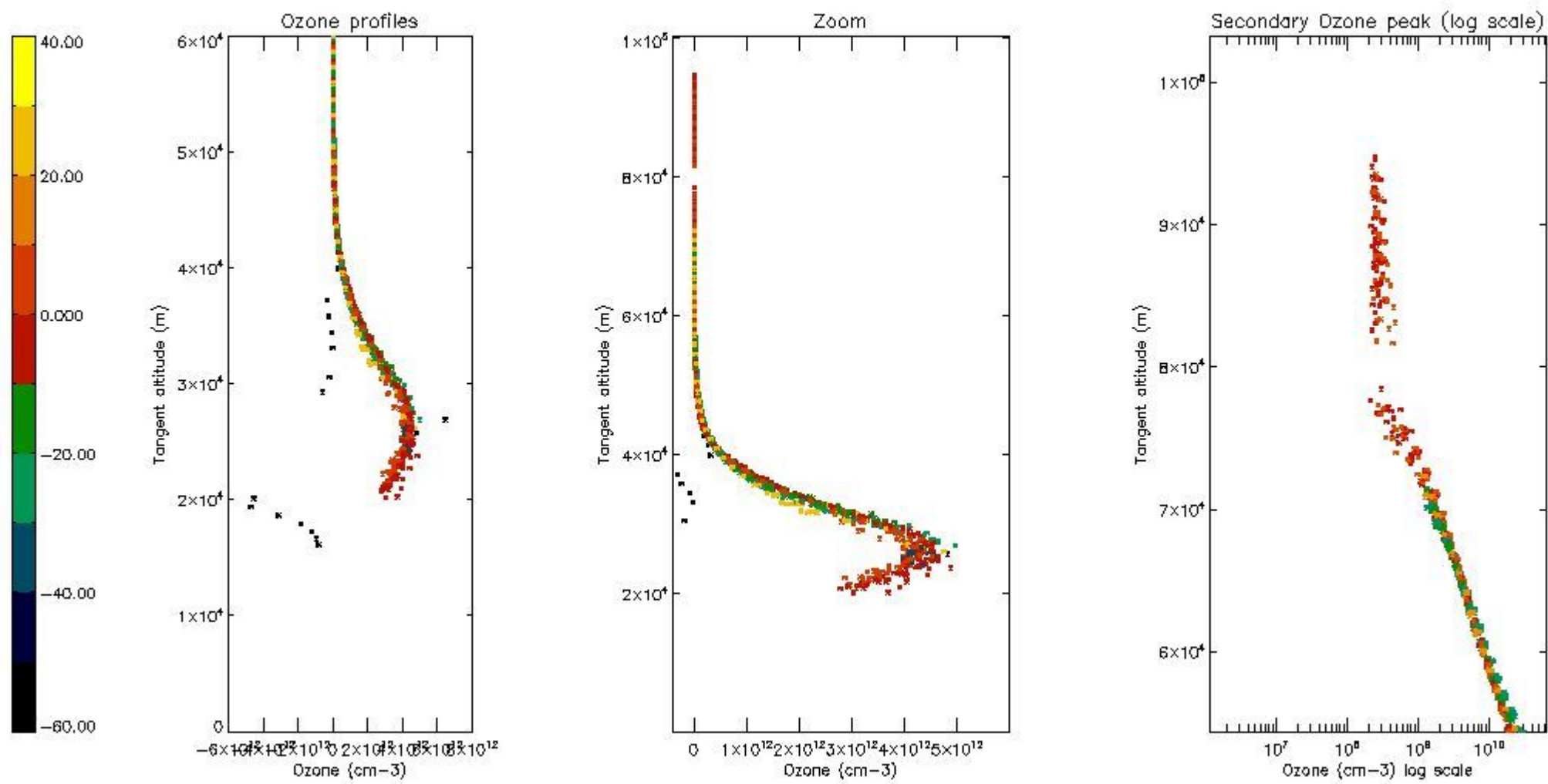
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



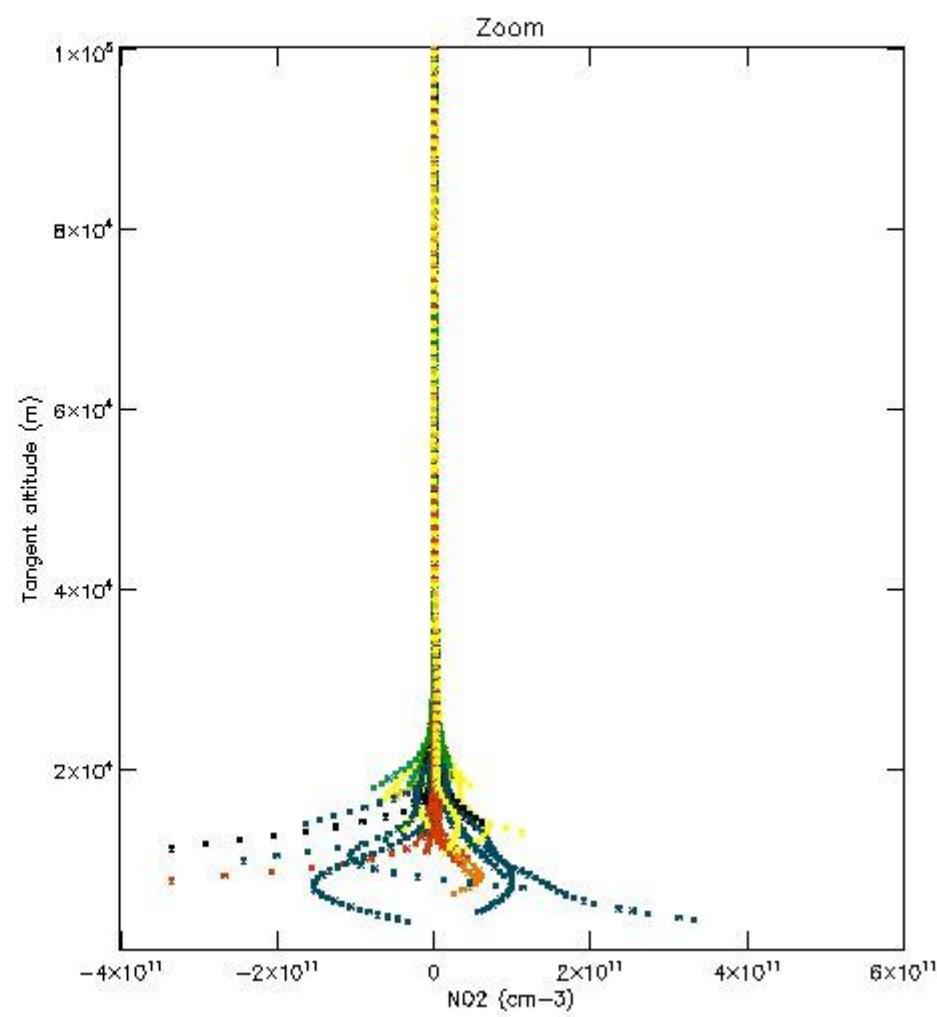
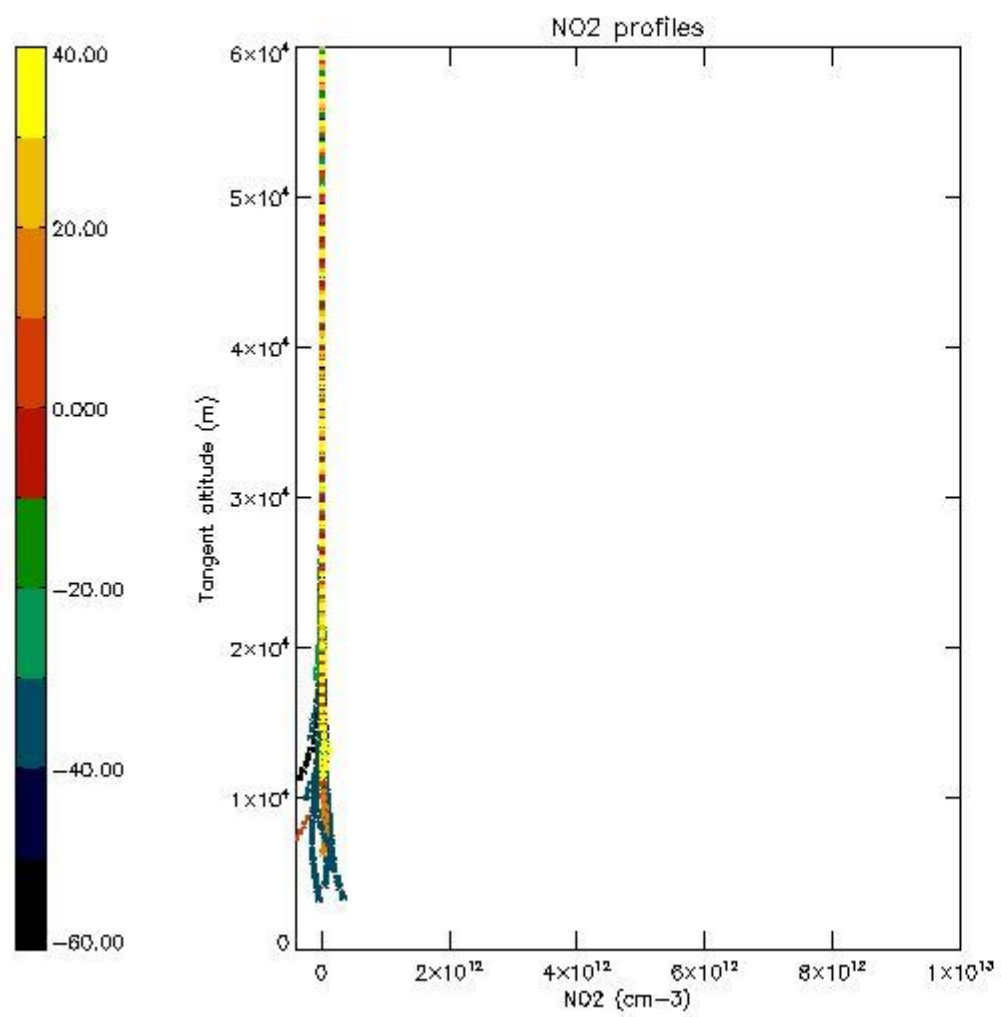
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



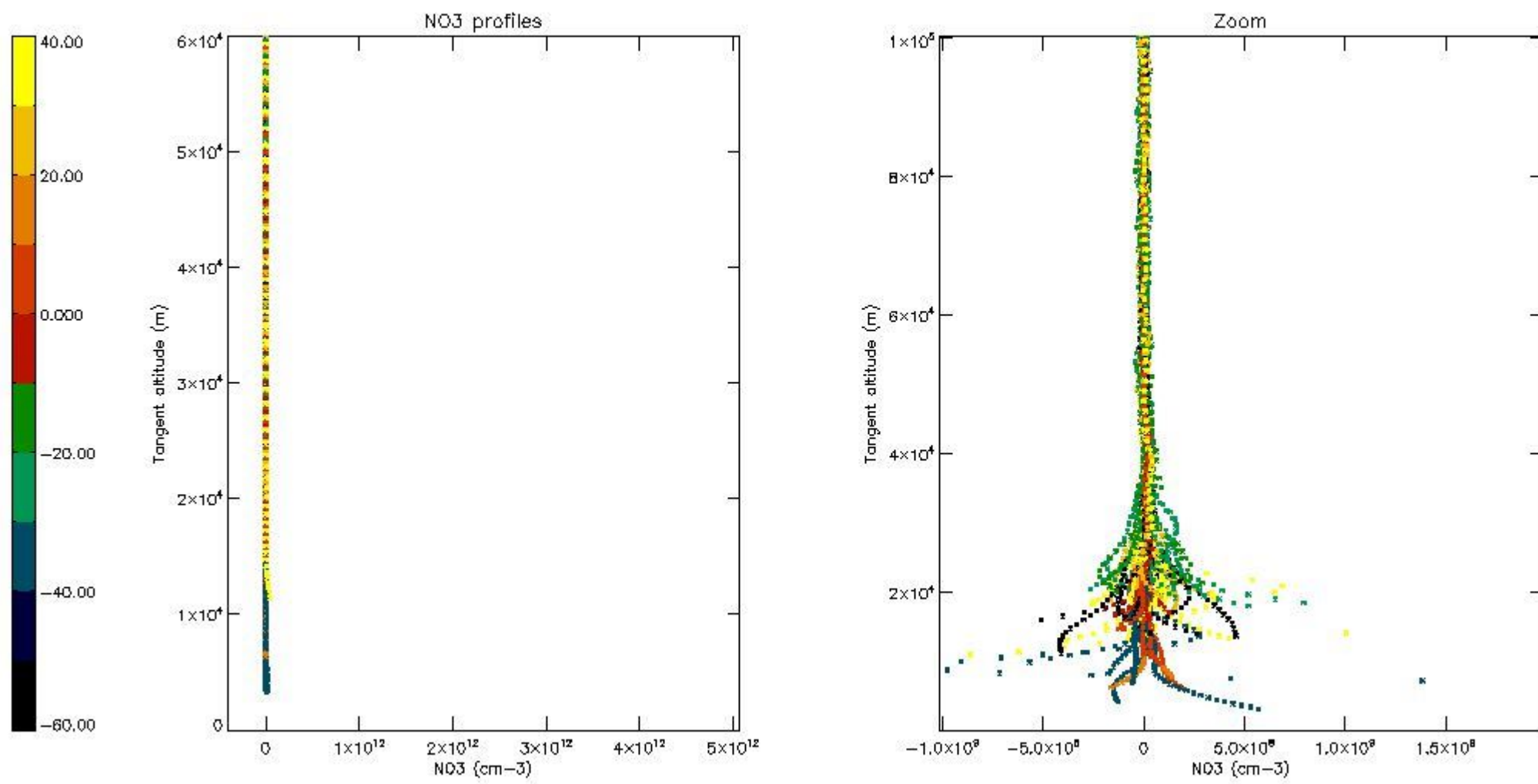
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



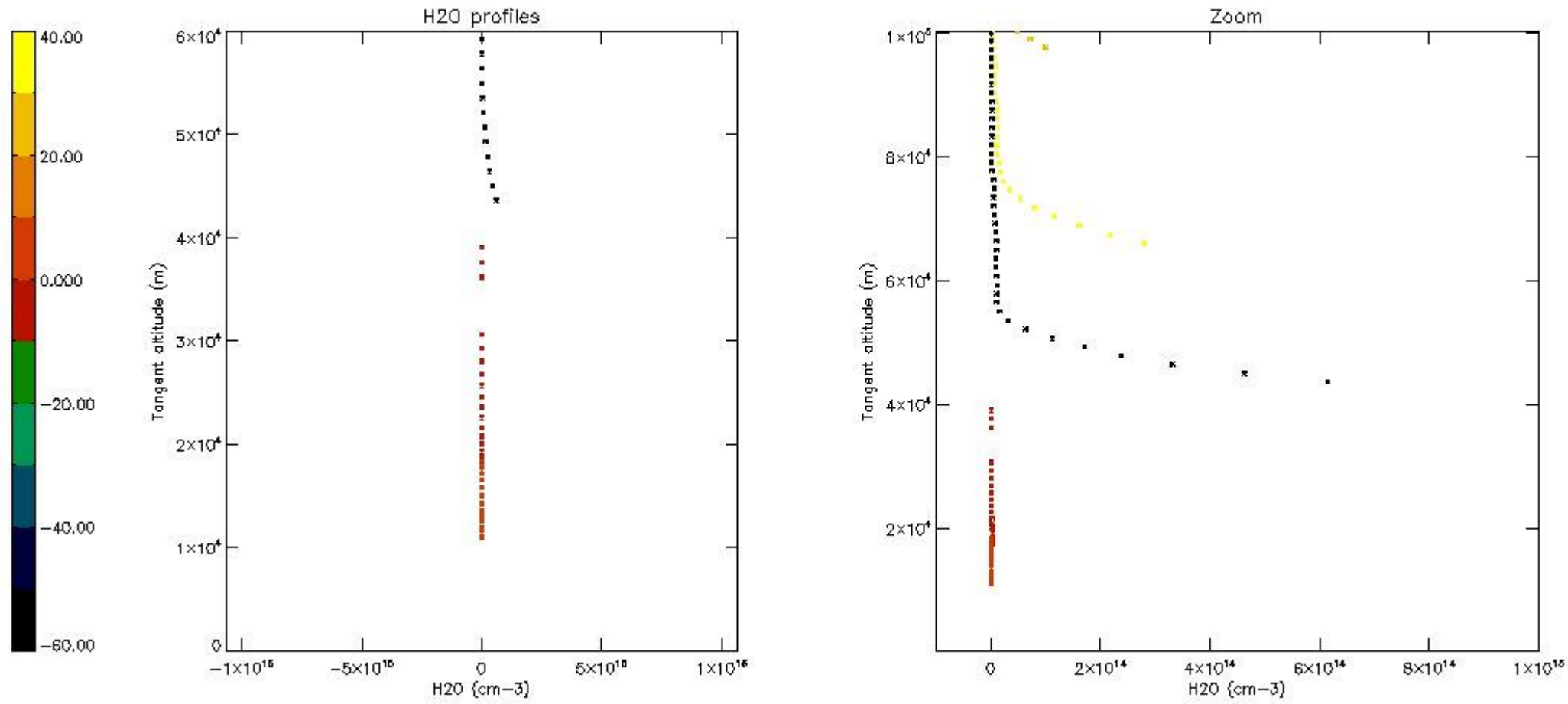
5.7 Plot NO3 profiles for all STD (dark without errors)

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	08-FEB-2011 08:30:27
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	08-FEB-2011 08:30:27
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	08-FEB-2011 08:30:27

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[3.2 Plot of level 2 quality information per product \(world map\)](#)

[4. Level 1 Quality information per product \(stored on level 2 products\)](#)

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[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](#)

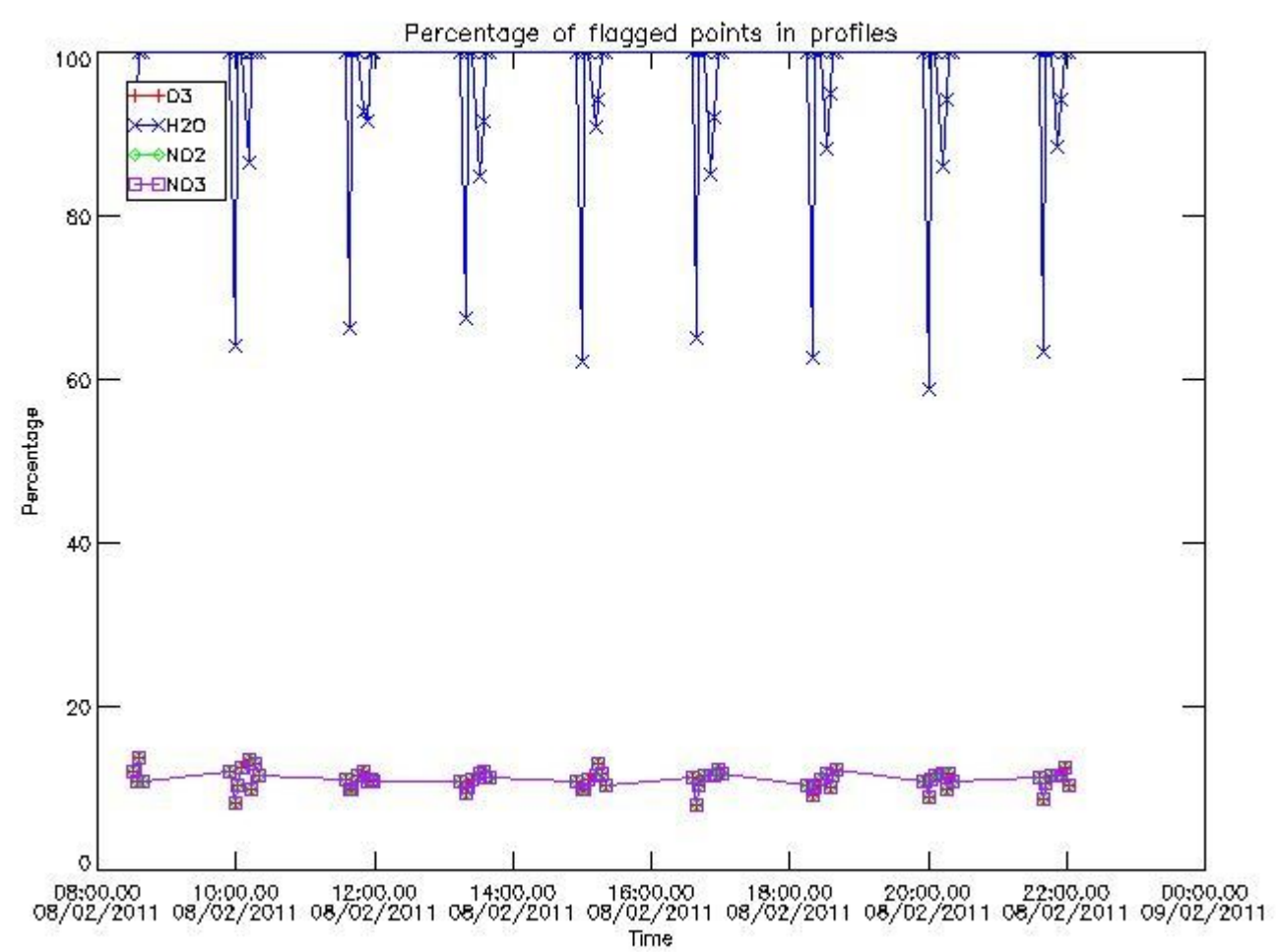
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102	GOM_NL__2PRFIN20110208_191848_000000493099_00200_46766_8326.N1	08-FEB-2011 19:18:48	Bright	48.500	82	48Bet UMa	2.3650	10600.	97	46766	No
103	GOM_NL__2PRFIN20110208_192549_000000383099_00200_46766_8327.N1	08-FEB-2011 19:25:49	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	46766	No
104	GOM_NL__2PRFIN20110208_193037_000000423099_00200_46766_8328.N1	08-FEB-2011 19:30:37	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	46766	No
105	GOM_NL__2PRFIN20110208_193407_000000403099_00200_46766_8329.N1	08-FEB-2011 19:34:07	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	46766	No
106	GOM_NL__2PRFIN20110208_194106_000000703099_00200_46766_8330.N1	08-FEB-2011 19:41:06	Bright	70.000	133	40Zet Her	2.8070	6000.0	140	46766	No
107	GOM_NL__2PRFIN20110208_194637_000000423099_00200_46766_8331.N1	08-FEB-2011 19:46:37	Bright	41.500	59	55Alp Oph	2.0800	8900.0	83	46766	No
108	GOM_NL__2PRFIN20110208_194849_000000583099_00200_46766_8332.N1	08-FEB-2011 19:48:49	Bright	58.000	126	60Bet Oph	2.7700	4250.0	116	46766	No
109	GOM_NL__2PRFIN20110208_195542_000000473099_00200_46766_8333.N1	08-FEB-2011 19:55:42	Dark	47.000	86	35Eta Oph	2.4300	10200.	94	46766	No
110	GOM_NL__2PRFIN20110208_200023_000000583099_00200_46766_8334.N1	08-FEB-2011 20:00:23	Dark	57.500	16	21Alp Sco	1.0200	3000.0	115	46766	No
111	GOM_NL__2PRFIN20110208_200212_000000503099_00200_46766_8335.N1	08-FEB-2011 20:02:12	Dark	50.000	158	6Pi Sco	2.9060	28000.	100	46766	No
112	GOM_NL__2PRFIN20110208_200619_000000453099_00200_46766_8336.N1	08-FEB-2011 20:06:19	Dark	44.500	131	Gam Lup	2.8000	26000.	89	46766	No
113	GOM_NL__2PRFIN20110208_201210_000000443099_00201_46767_8369.N1	08-FEB-2011 20:12:10	Dark	43.500	10	Bet Cen	0.61000	28000.	87	46767	No
114	GOM_NL__2PRFIN20110208_201524_000000523099_00201_46767_8370.N1	08-FEB-2011 20:15:24	Dark	52.000	12	Alp1Cru	0.77500	30000.	104	46767	No
115	GOM_NL__2PRFIN20110208_201750_000000443099_00201_46767_8371.N1	08-FEB-2011 20:17:50	Dark	43.500	99	Del Cen	2.5750	26000.	87	46767	No
116	GOM_NL__2PRFIN20110208_202110_000000473099_00201_46767_8372.N1	08-FEB-2011 20:21:10	Dark	46.500	113	Mu Vel	2.6920	5000.0	93	46767	No
117	GOM_NL__2PRFIN20110208_203525_000000533099_00201_46767_8373.N1	08-FEB-2011 20:35:25	Straylight	52.500	48	30Alp Hya	1.9770	4100.0	105	46767	No
118	GOM_NL__2PRFIN20110208_205901_000000483099_00201_46767_8374.N1	08-FEB-2011 20:59:01	Bright	47.500	82	48Bet UMa	2.3650	10600.	95	46767	No
119	GOM_NL__2PRFIN20110208_210603_000000383099_00201_46767_8375.N1	08-FEB-2011 21:06:03	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	46767	No
120	GOM_NL__2PRFIN20110208_211051_000000433099_00201_46767_8376.N1	08-FEB-2011 21:10:51	Bright	42.500	119	14Eta Dra	2.7270	4700.0	85	46767	No
121	GOM_NL__2PRFIN20110208_211421_000000403099_00201_46767_8377.N1	08-FEB-2011 21:14:21	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	46767	No
122	GOM_NL__2PRFIN20110208_212120_000000473099_00201_46767_8378.N1	08-FEB-2011 21:21:20	Bright	47.000	133	40Zet Her	2.8070	6000.0	94	46767	No
123	GOM_NL__2PRFIN20110208_212652_000000603099_00201_46767_8379.N1	08-FEB-2011 21:26:52	Bright	60.000	59	55Alp Oph	2.0800	8900.0	120	46767	No
124	GOM_NL__2PRFIN20110208_212903_000000583099_00201_46767_8380.N1	08-FEB-2011 21:29:03	Bright	57.500	126	60Bet Oph	2.7700	4250.0	115	46767	No
125	GOM_NL__2PRFIN20110208_213557_000000453099_00201_46767_8381.N1	08-FEB-2011 21:35:57	Dark	45.000	86	35Eta Oph	2.4300	10200.	90	46767	No
126	GOM_NL__2PRFIN20110208_214038_000000593099_00201_46767_8382.N1	08-FEB-2011 21:40:38	Dark	59.000	16	21Alp Sco	1.0200	3000.0	118	46767	No
127	GOM_NL__2PRFIN20110208_214227_000000533099_00201_46767_8383.N1	08-FEB-2011 21:42:27	Dark	52.500	158	6Pi Sco	2.9060	28000.	105	46767	No
128	GOM_NL__2PRFIN20110208_214634_000000453099_00201_46767_8384.N1	08-FEB-2011 21:46:34	Dark	44.500	131	Gam Lup	2.8000	26000.	89	46767	No
129	GOM_NL__2PRFIN20110208_215224_000000443099_00202_46768_8398.N1	08-FEB-2011 21:52:24	Dark	44.000	10	Bet Cen	0.61000	28000.	88	46768	No
130	GOM_NL__2PRFIN20110208_215538_000000443099_00202_46768_8399.N1	08-FEB-2011 21:55:38	Dark	44.000	12	Alp1Cru	0.77500	30000.	88	46768	No
131	GOM_NL__2PRFIN20110208_215805_000000453099_00202_46768_8400.N1	08-FEB-2011 21:58:05	Dark	45.000	99	Del Cen	2.5750	26000.	90	46768	No
132	GOM_NL__2PRFIN20110208_220124_000000493099_00202_46768_8401.N1	08-FEB-2011 22:01:24	Dark	49.000	113	Mu Vel	2.6920	5000.0	98	46768	No
133	GOM_NL__2PRFIN20110208_221539_000000563099_00202_46768_8402.N1	08-FEB-2011 22:15:39	Straylight	56.000	48	30Alp Hya	1.9770	4100.0	112	46768	No
134	GOM_NL__2PRFIN20110208_223915_000000473099_00202_46768_8403.N1	08-FEB-2011 22:39:15	Bright	47.000	82	48Bet UMa	2.3650	10600.	94	46768	No
135	GOM_NL__2PRFIN20110208_224616_000000423099_00202_46768_8404.N1	08-FEB-2011 22:46:16	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	46768	No
136	GOM_NL__2PRFIN20110208_225105_000000543099_00202_46768_8405.N1	08-FEB-2011 22:51:05	Bright	53.500	119	14Eta Dra	2.7270	4700.0	107	46768	No
137	GOM_NL__2PRFIN20110208_225435_000000393099_00202_46768_8406.N1	08-FEB-2011 22:54:35	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	46768	No
138	GOM_NL__2PRFIN20110208_230134_000000703099_00202_46768_8407.N1	08-FEB-2011 23:01:34	Bright	70.000	133	40Zet Her	2.8070	6000.0	140	46768	No
139	GOM_NL__2PRFIN20110208_230706_000000603099_00202_46768_8408.N1	08-FEB-2011 23:07:06	Bright	60.000	59	55Alp Oph	2.0800	8900.0	120	46768	No
140	GOM_NL__2PRFIN20110208_230918_000000583099_00202_46768_8409.N1	08-FEB-2011 23:09:18	Bright	58.000	126	60Bet Oph	2.7700	4250.0	116	46768	No

3. Quality information per product

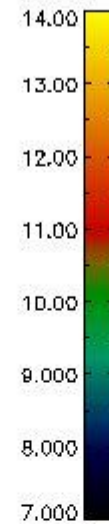
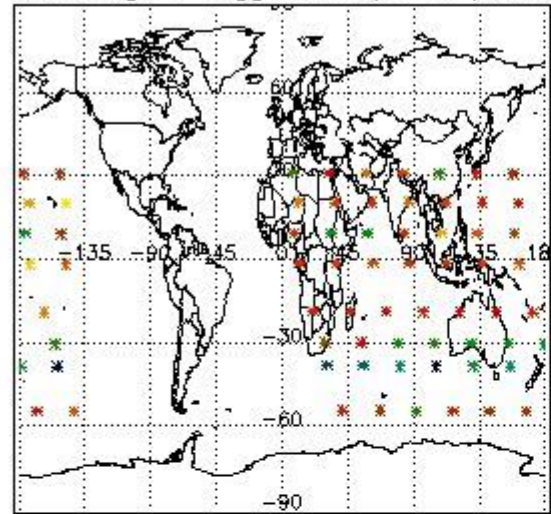
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

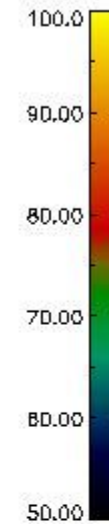
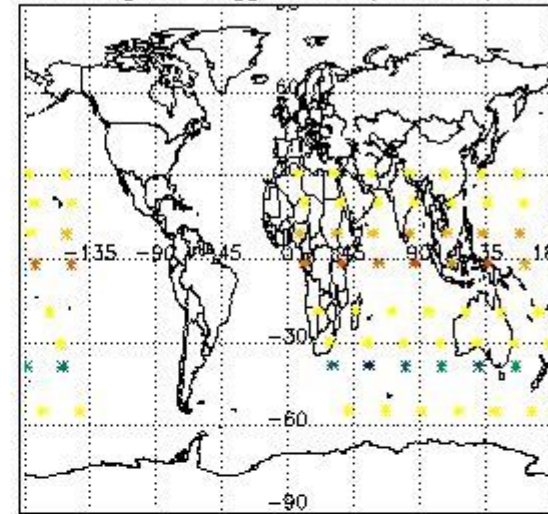


3.2 Plot quality information per product (world map)

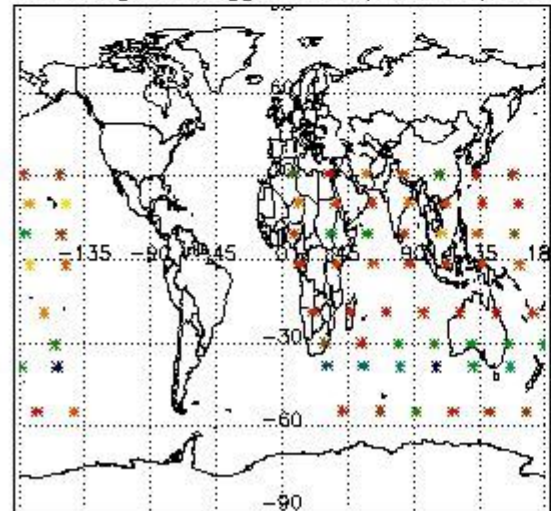
Percentage of flagged data per O3 profile



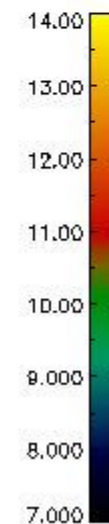
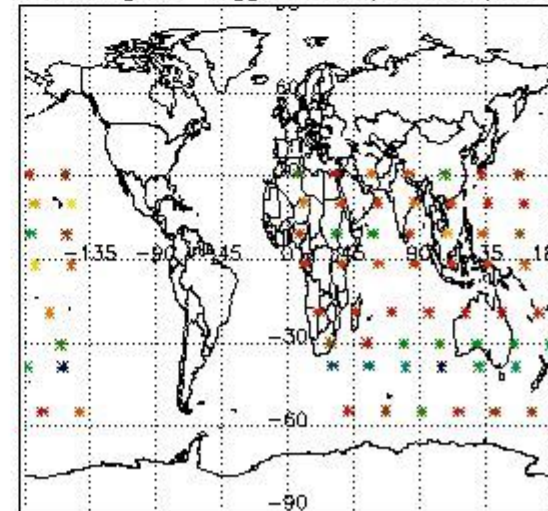
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

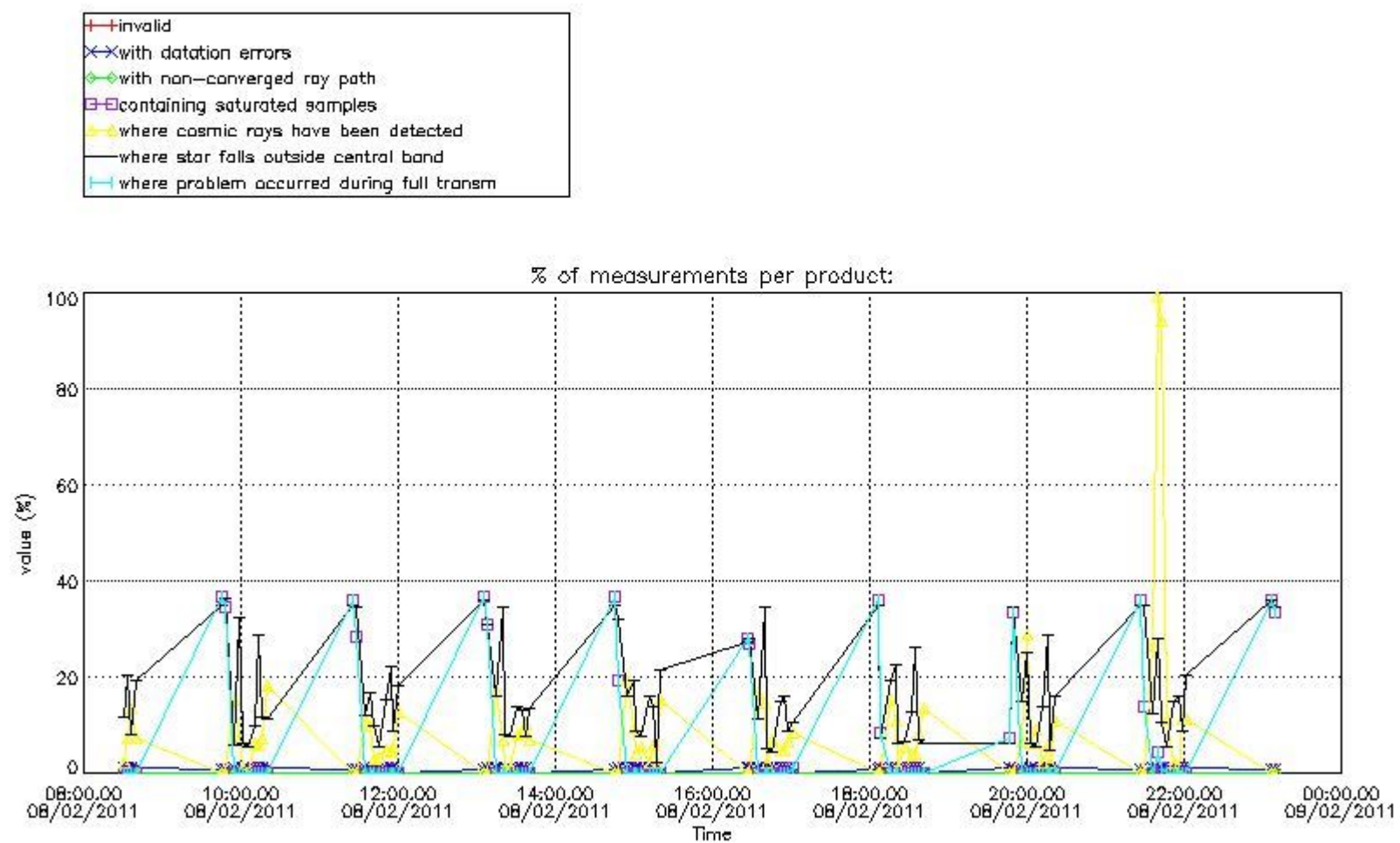


4. Level 1 quality information per product

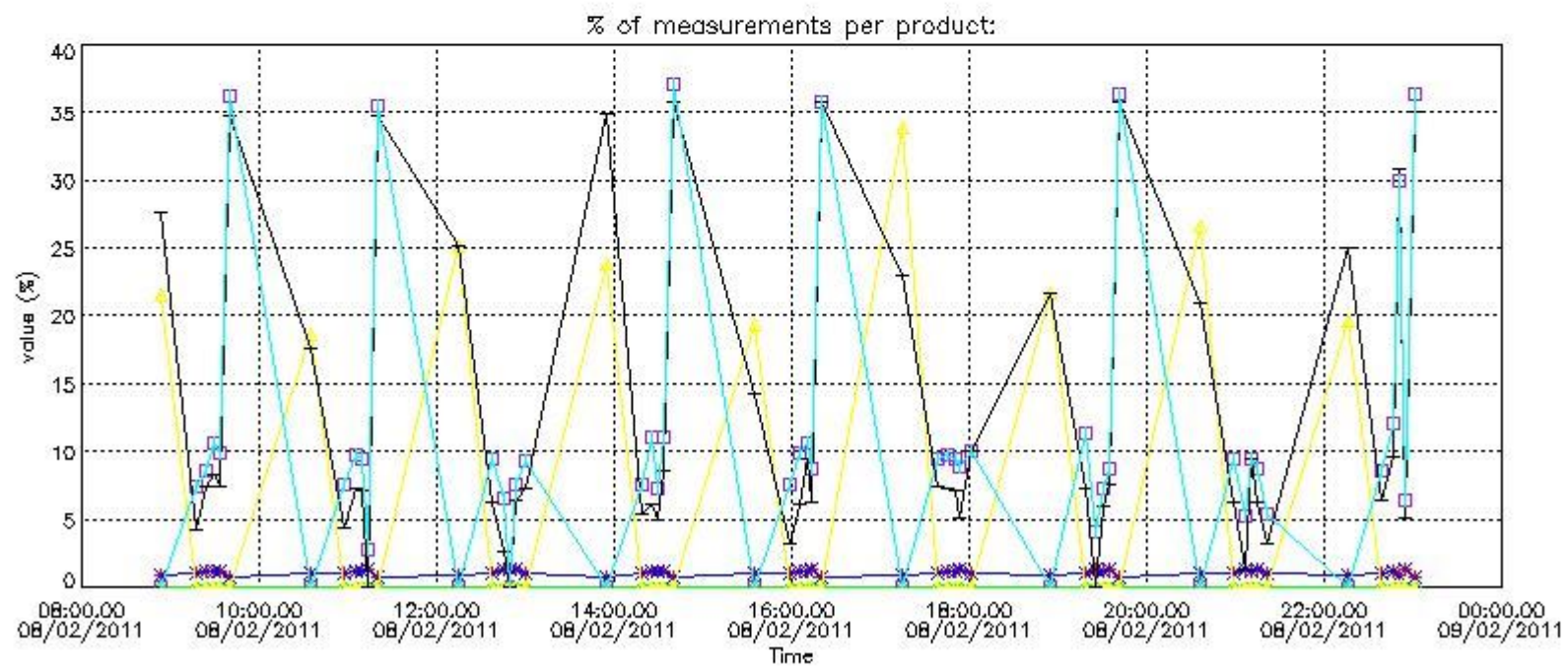
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



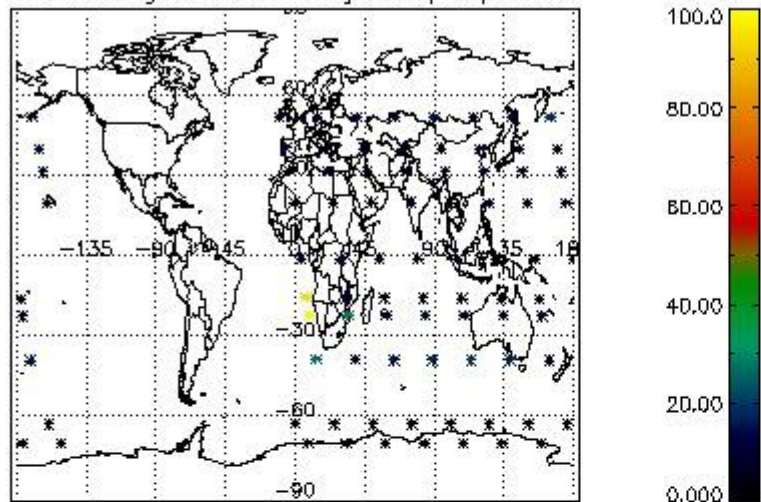
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



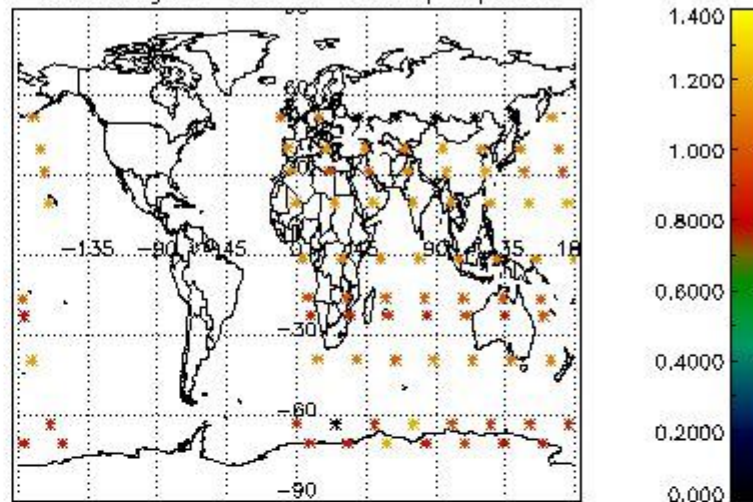
4.2 Plot quality information per product coming from level 1b processing (world map)

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

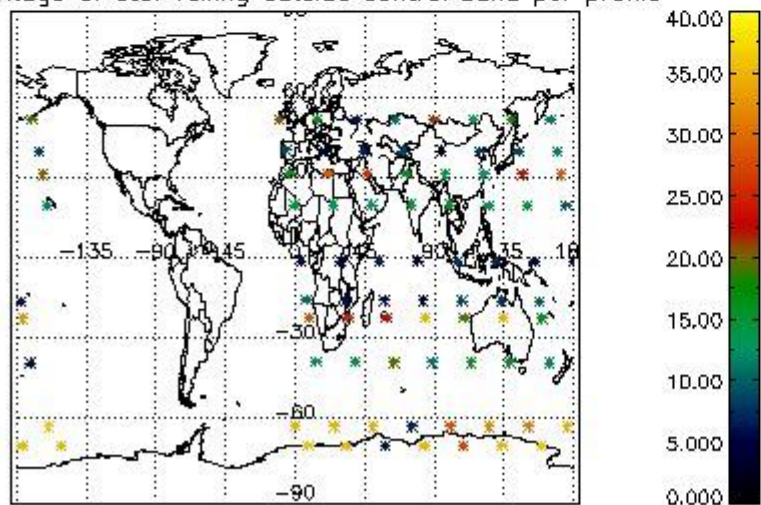
Percentage of cosmic ray hits per profile



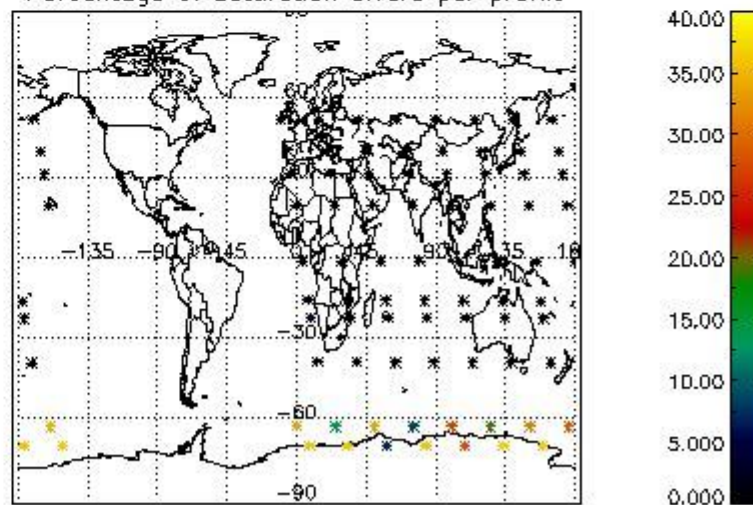
Percentage of datation errors per profile



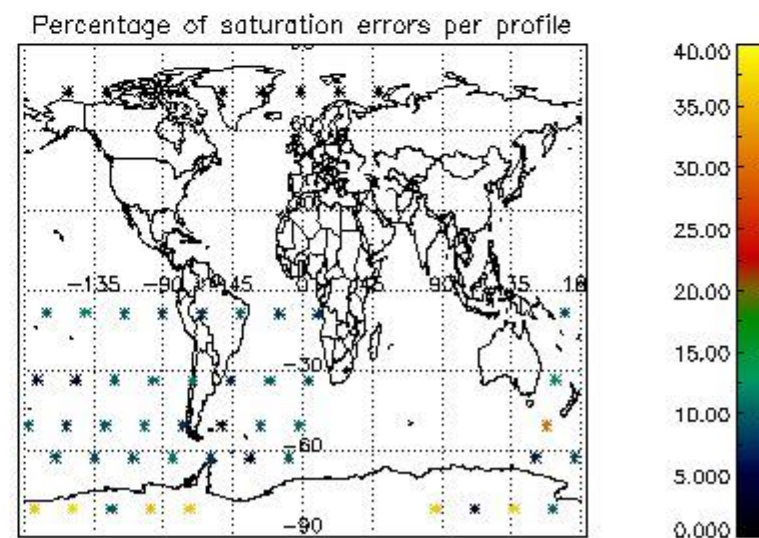
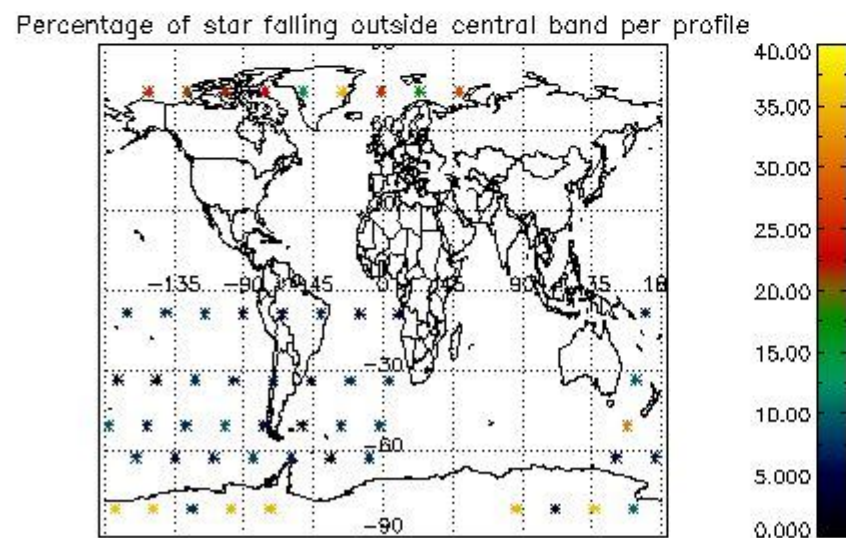
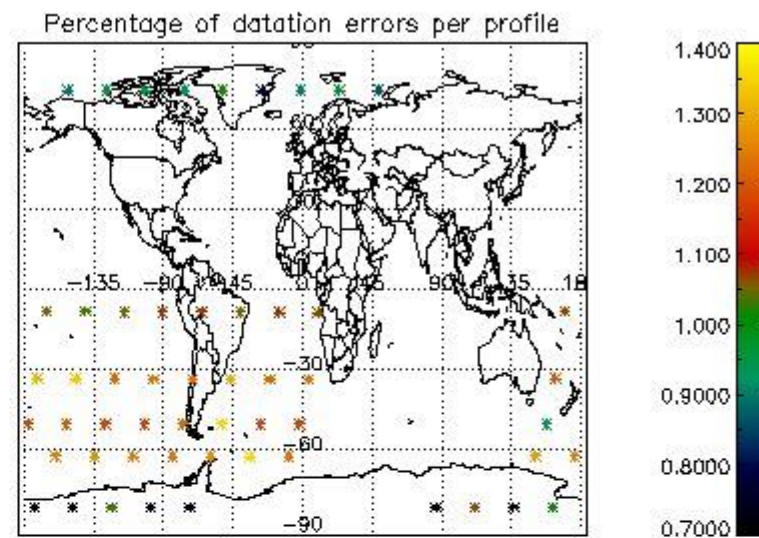
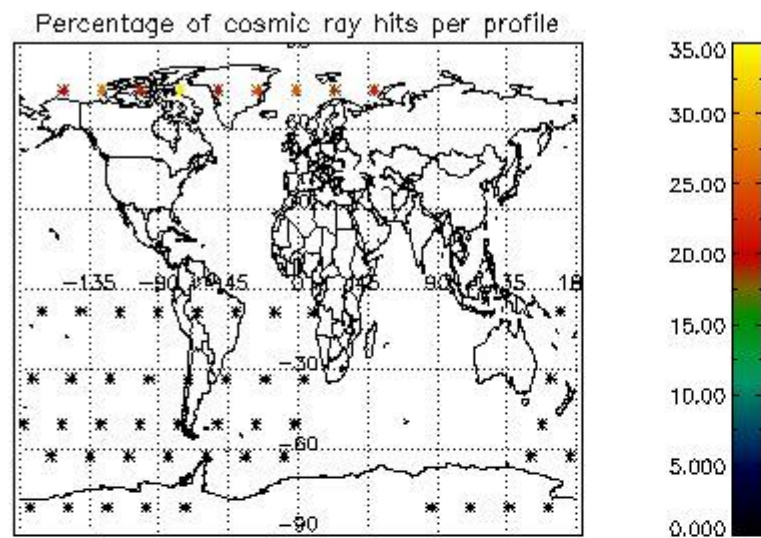
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

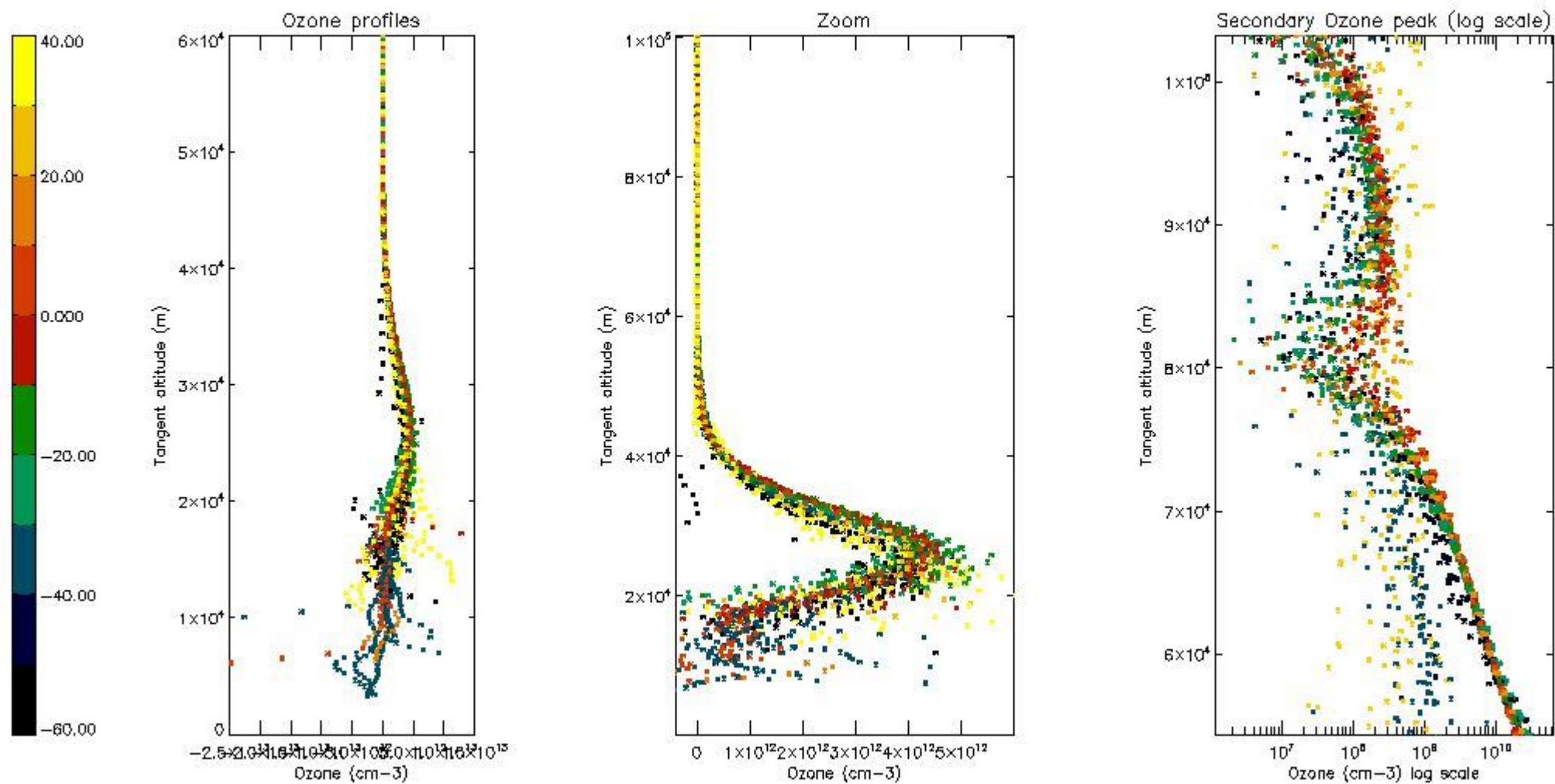
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	48
STD < 20	25

STD < 10	21
STD < 5	14

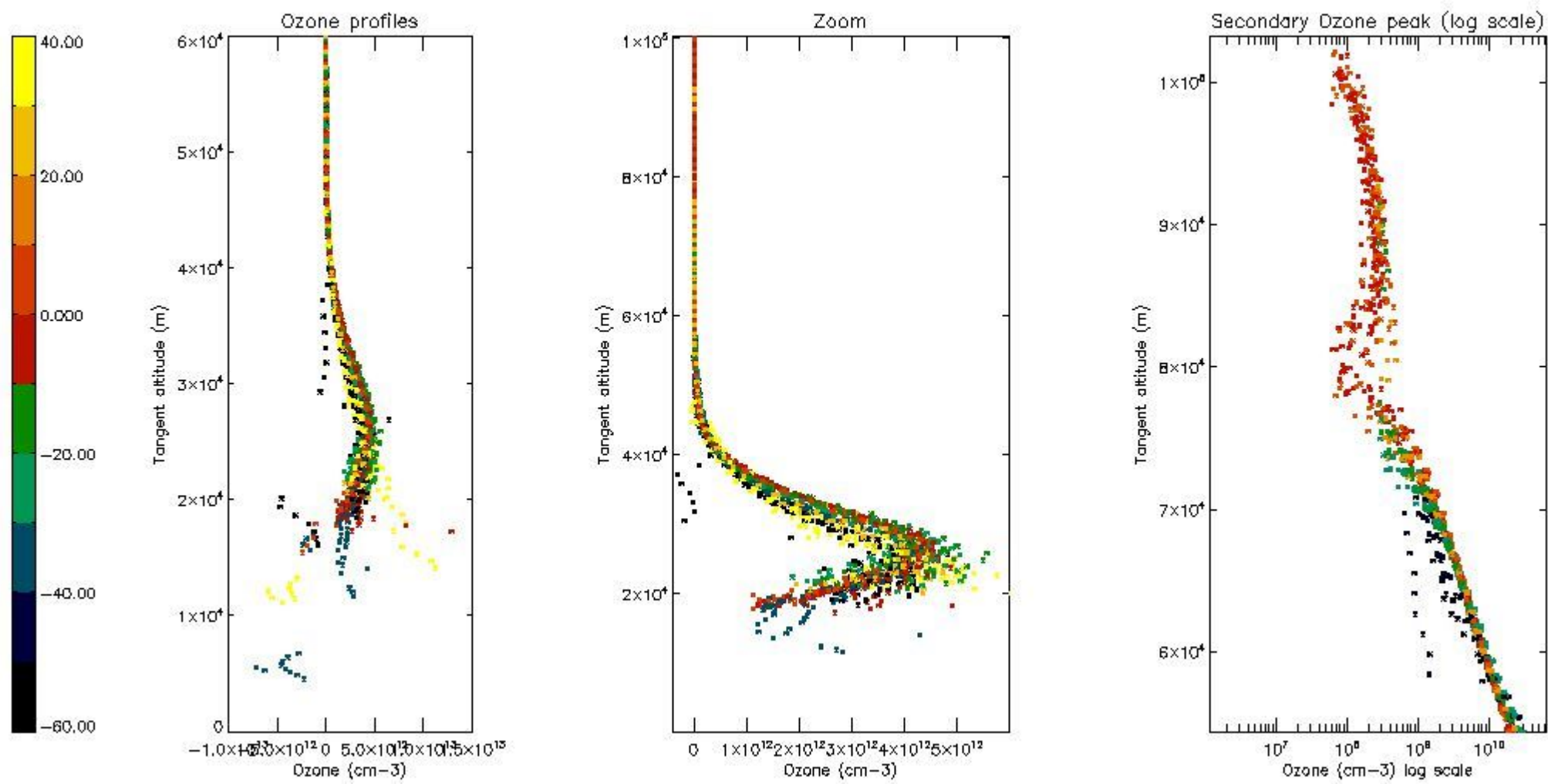
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



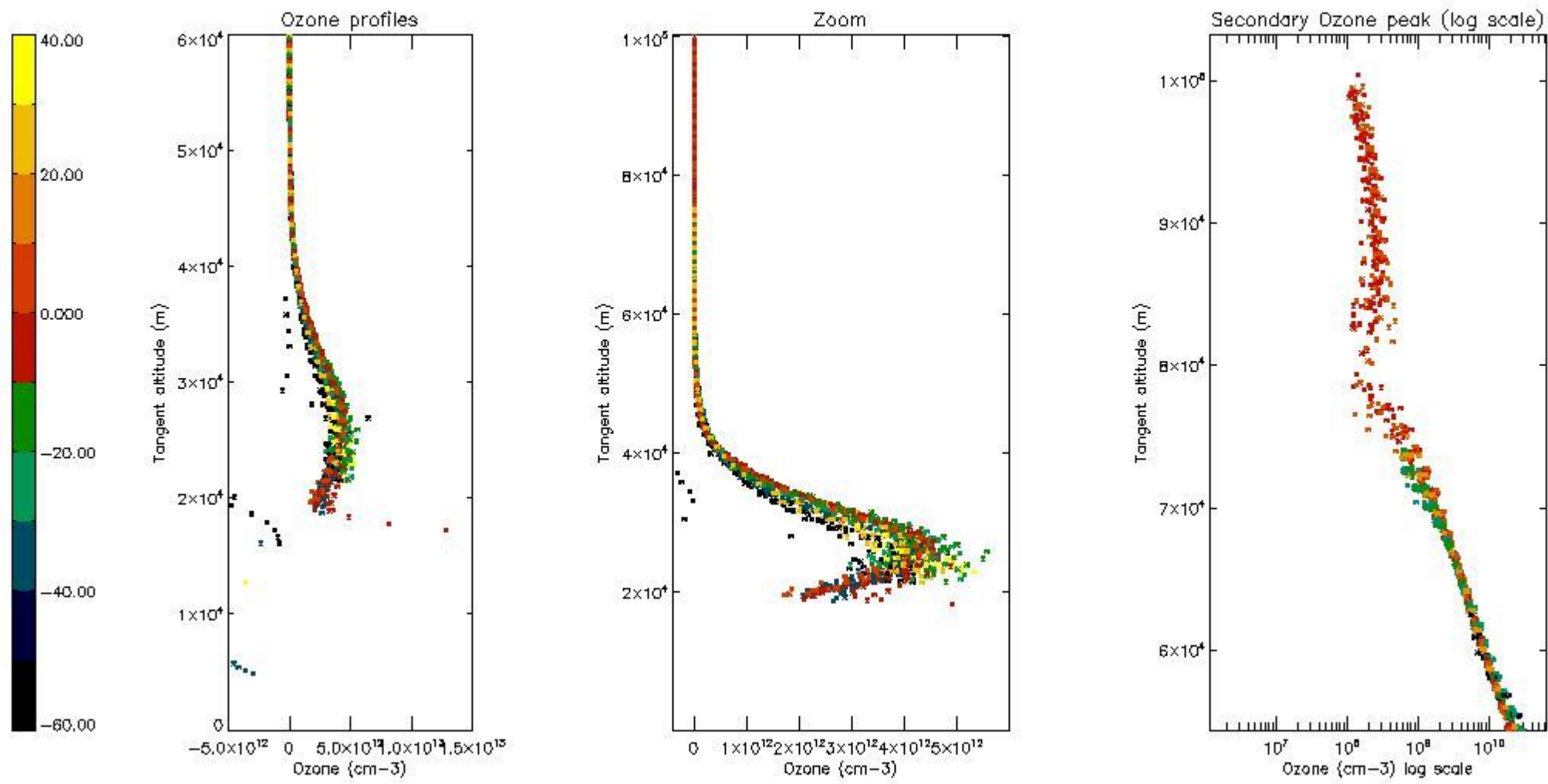
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



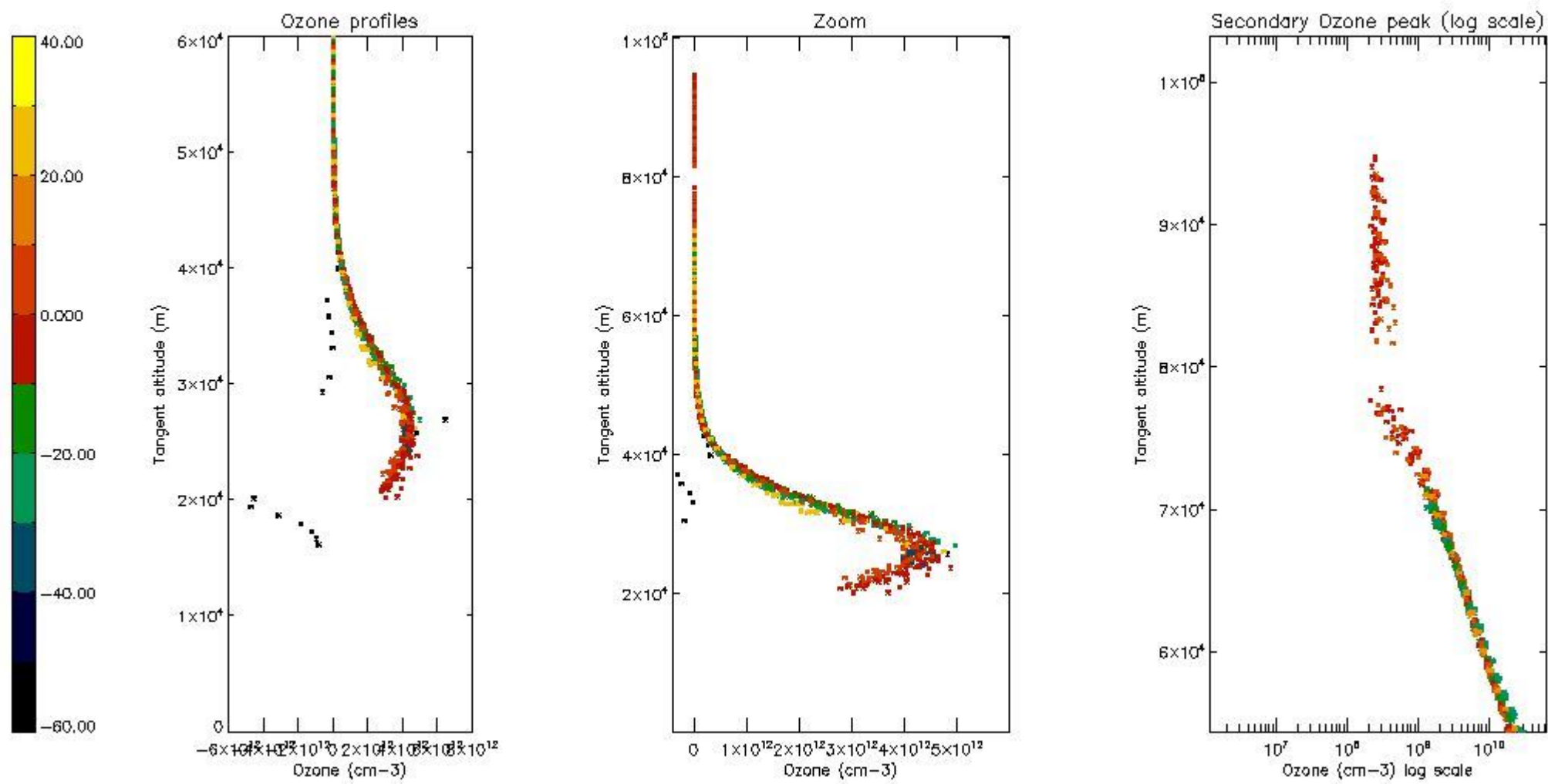
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



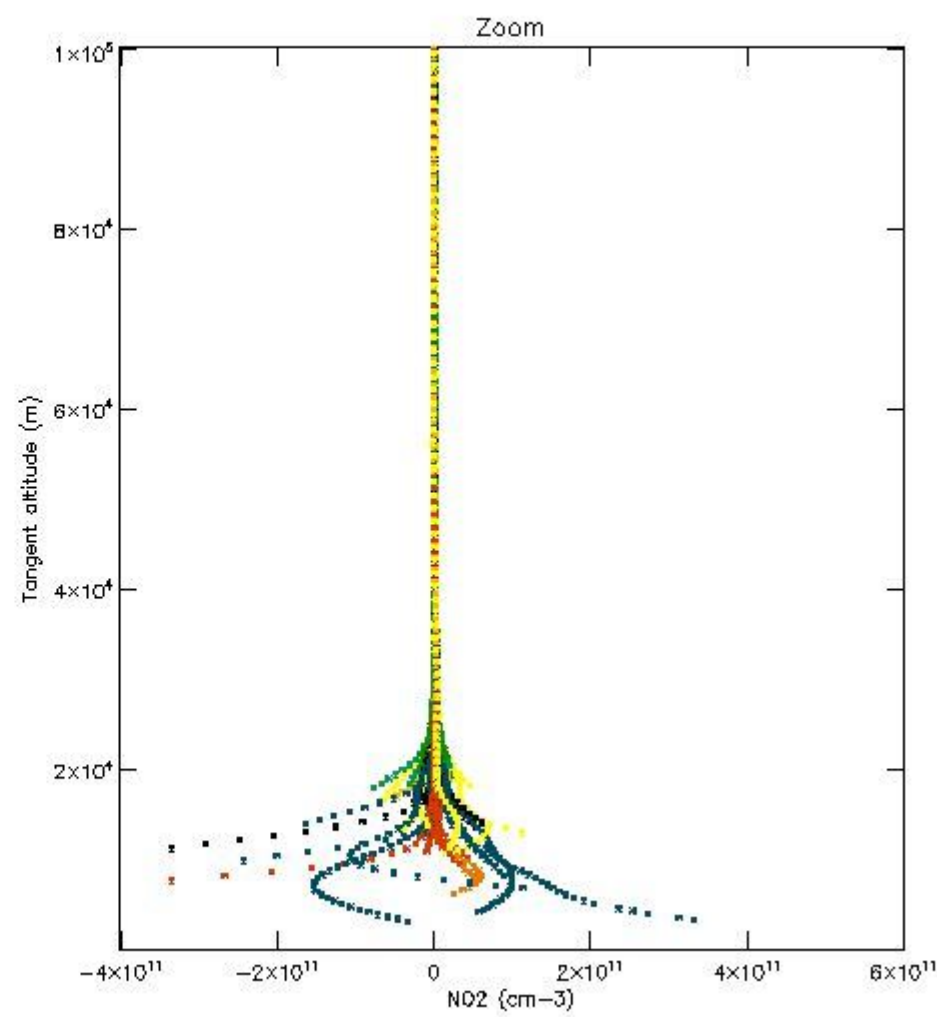
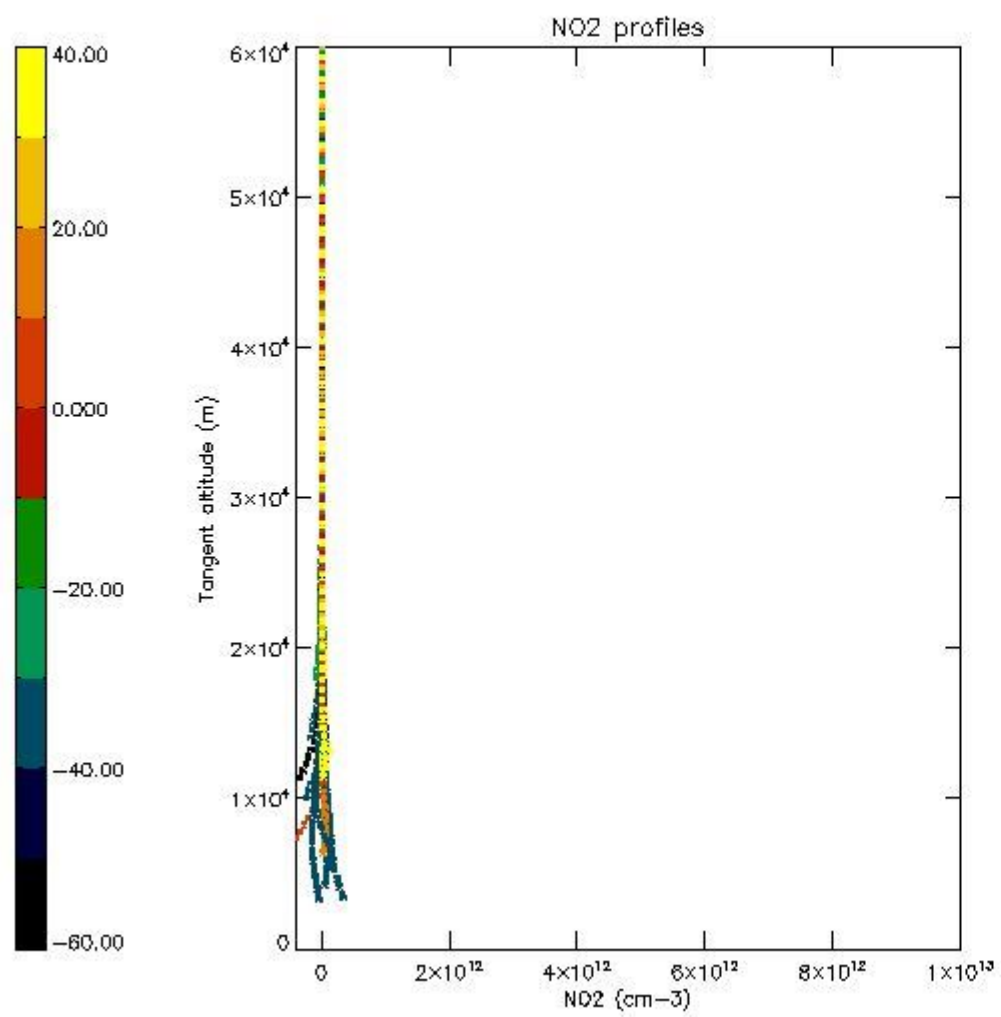
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



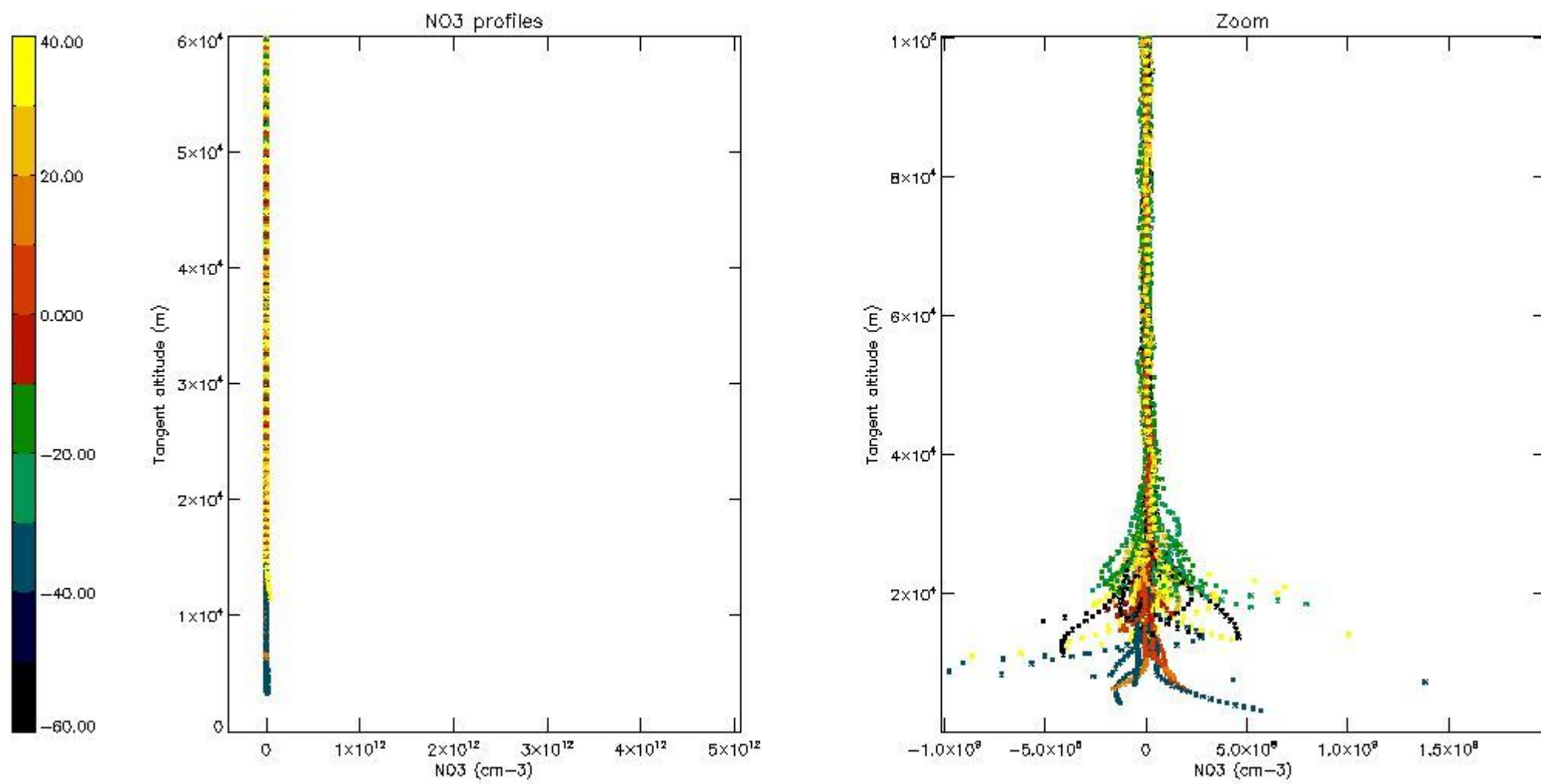
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



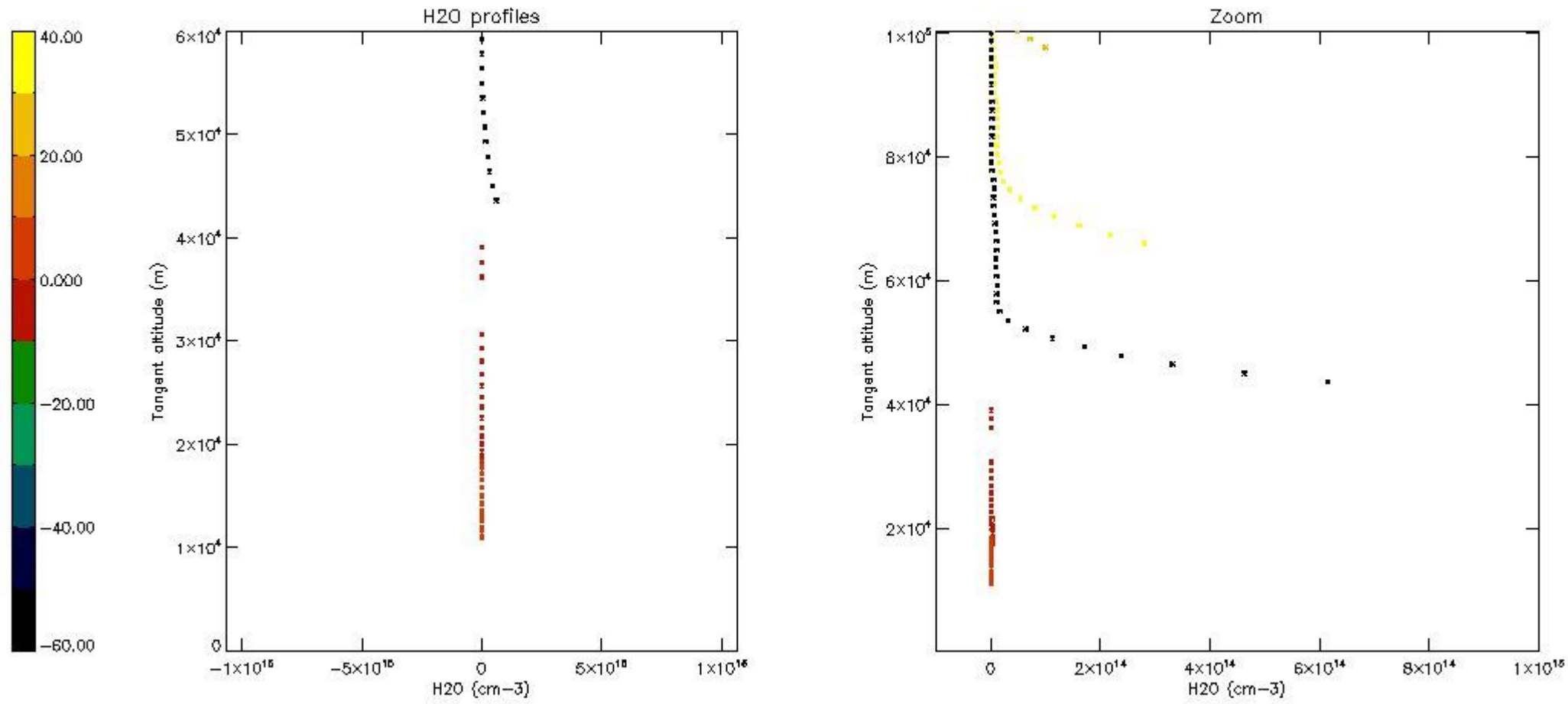
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

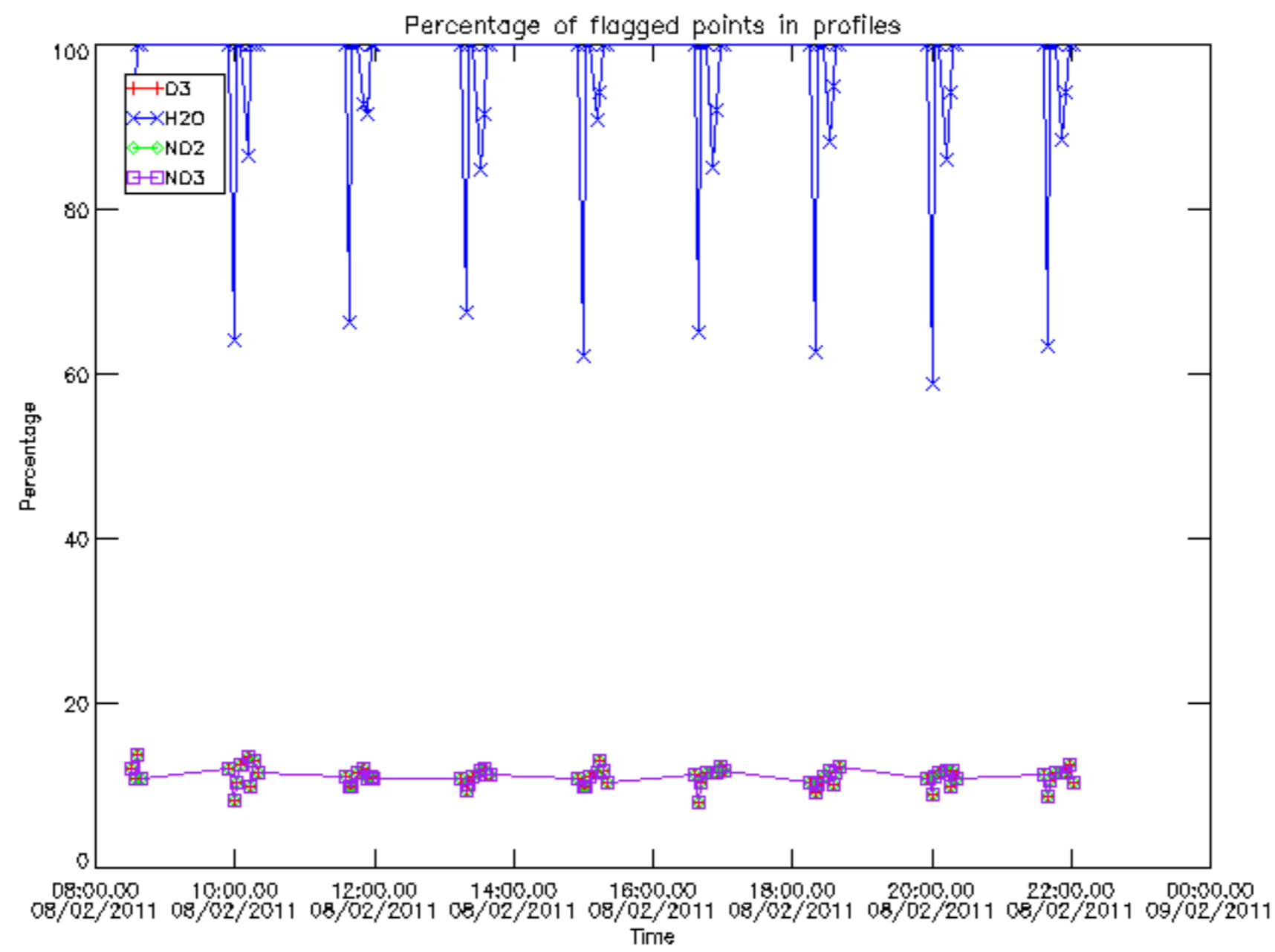
The colorbar represents the latitude.



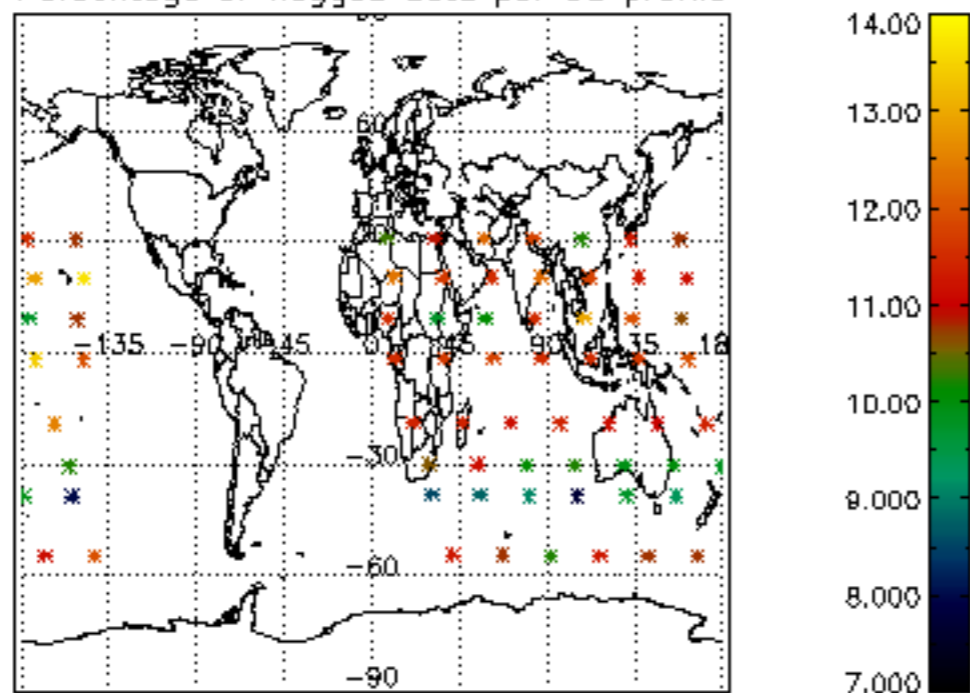
6. Auxiliary Data Files used for the production reported in section 2

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.

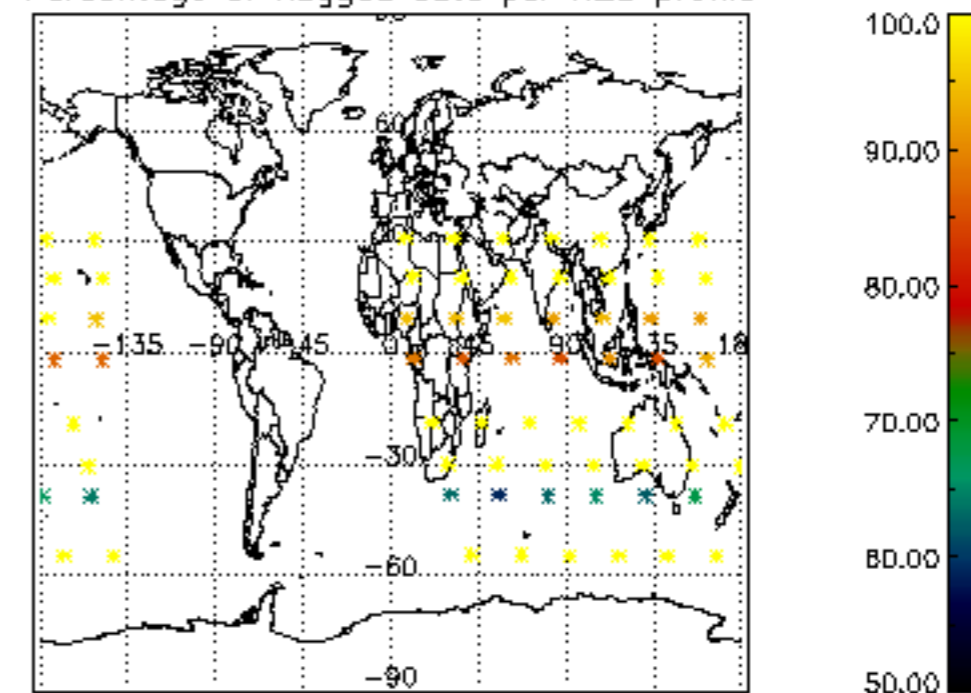
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	08-FEB-2011 08:30:27
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	08-FEB-2011 08:30:27
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	08-FEB-2011 08:30:27



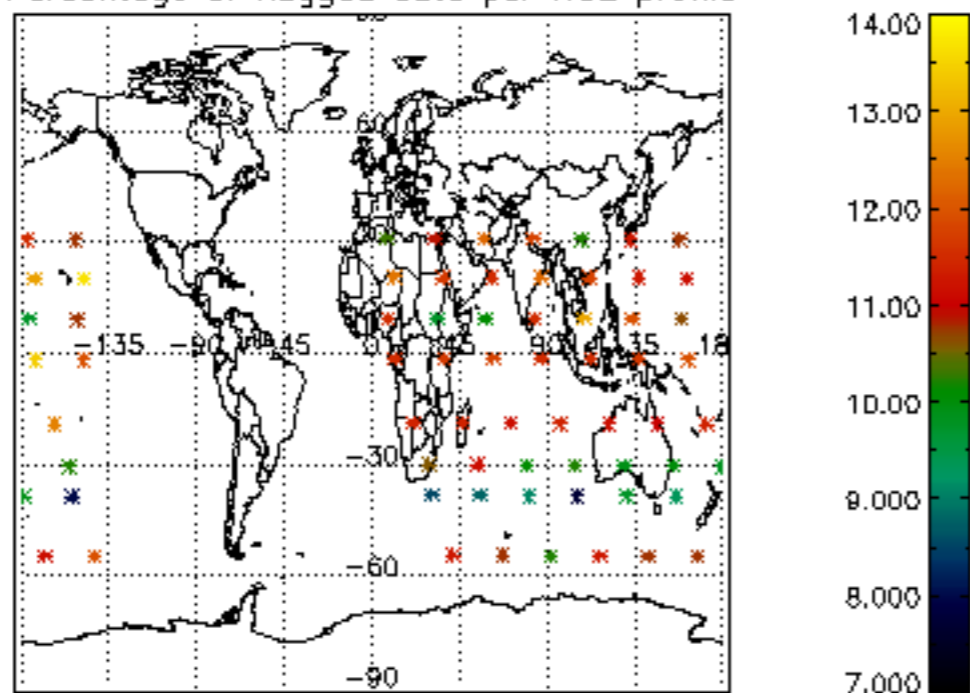
Percentage of flagged data per D3 profile



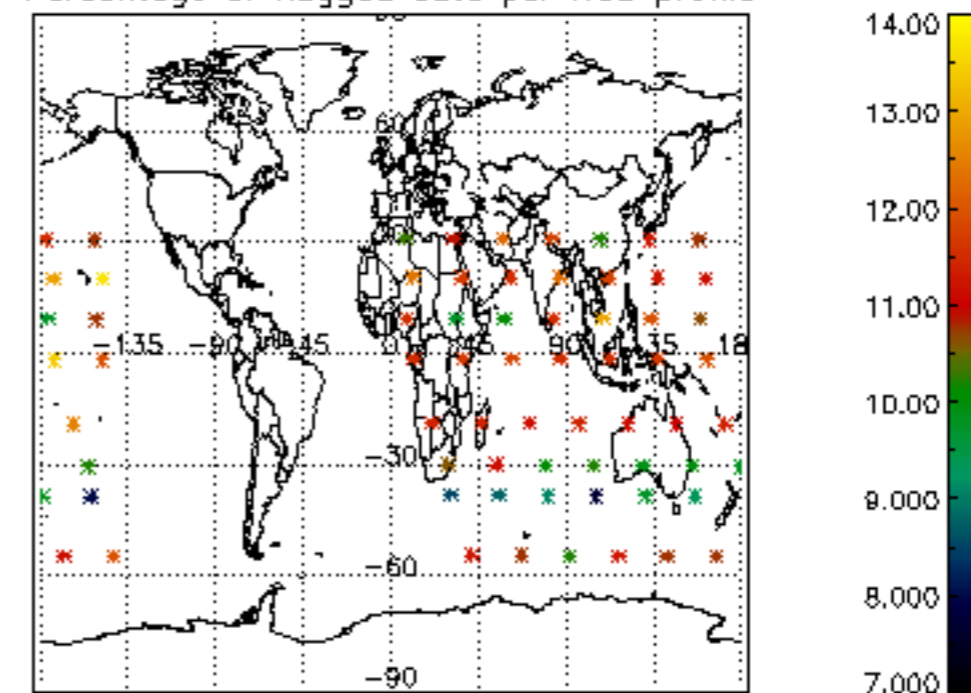
Percentage of flagged data per H2O profile

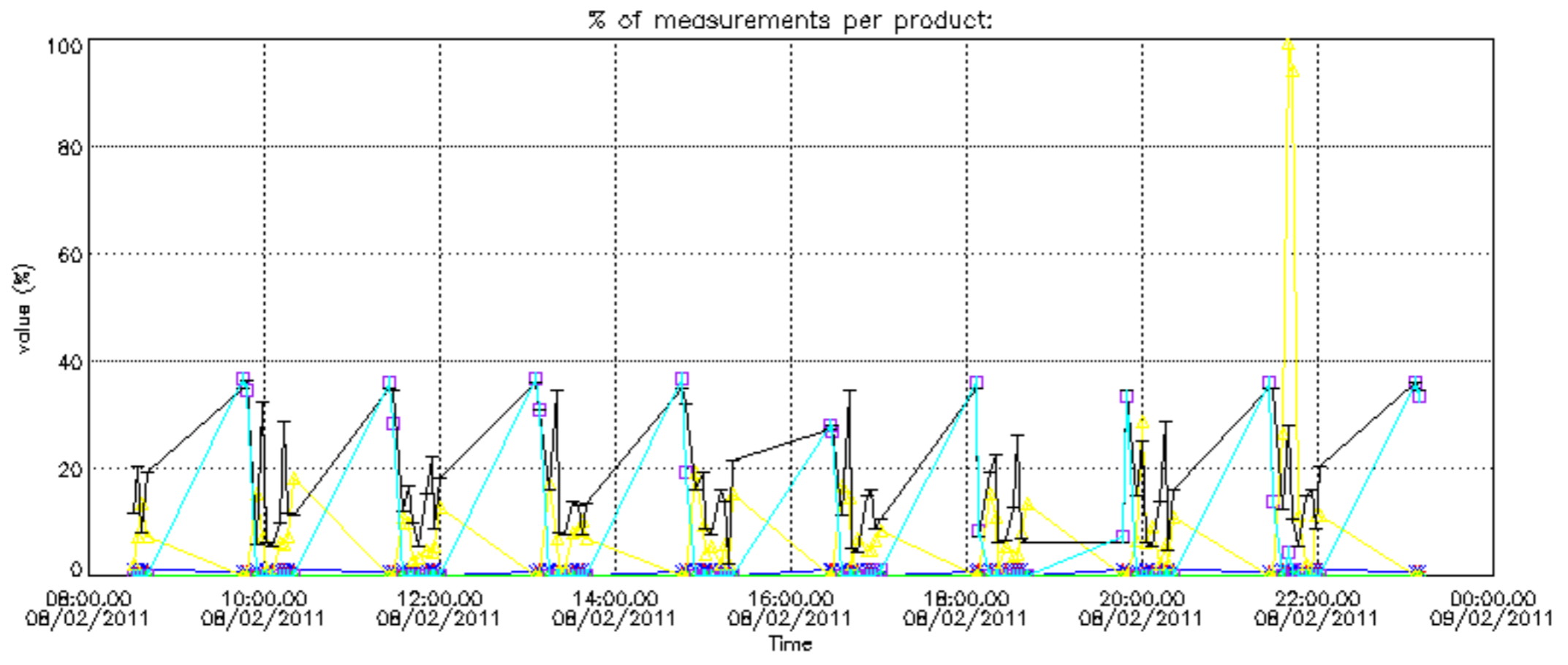


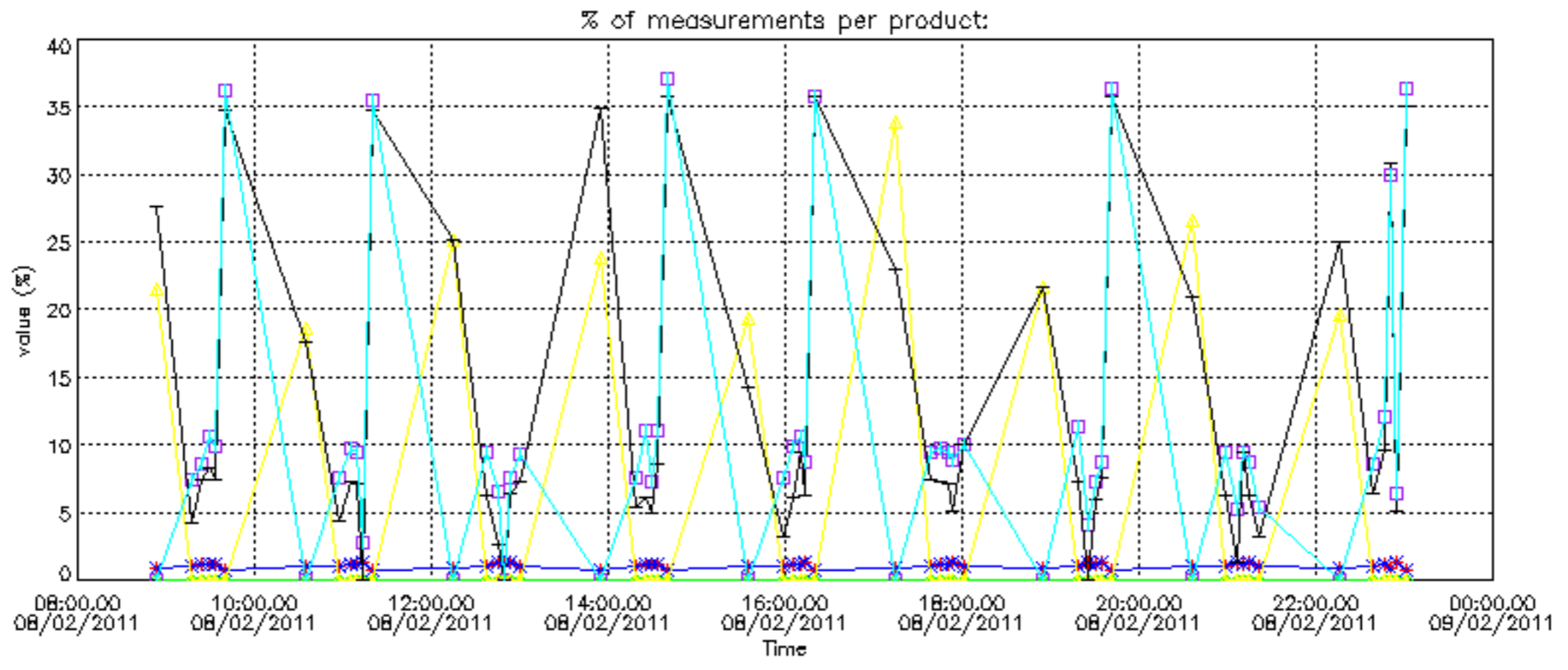
Percentage of flagged data per NO2 profile



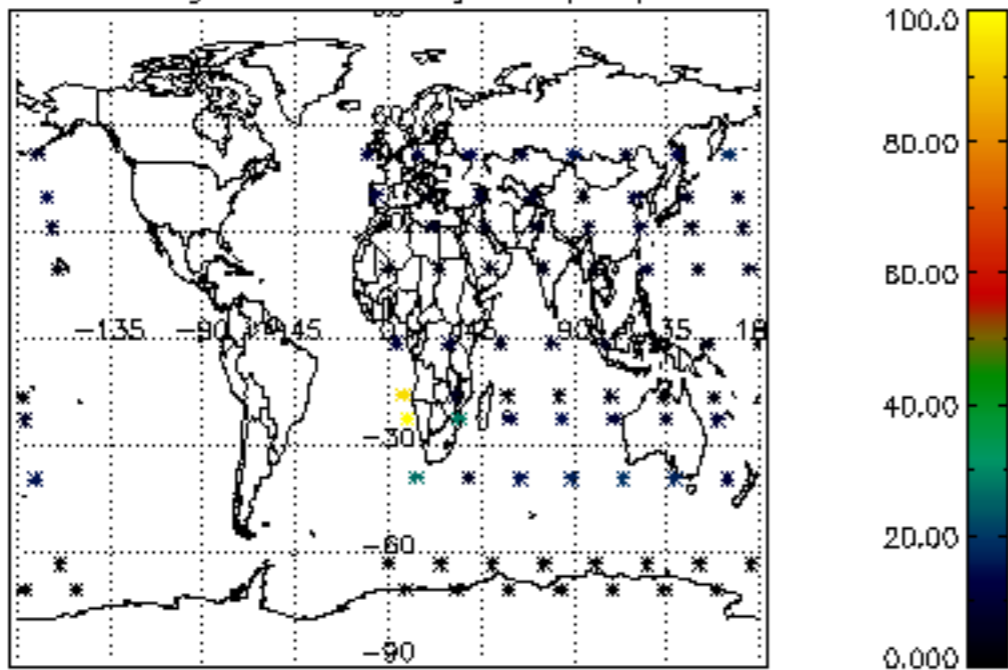
Percentage of flagged data per NO3 profile



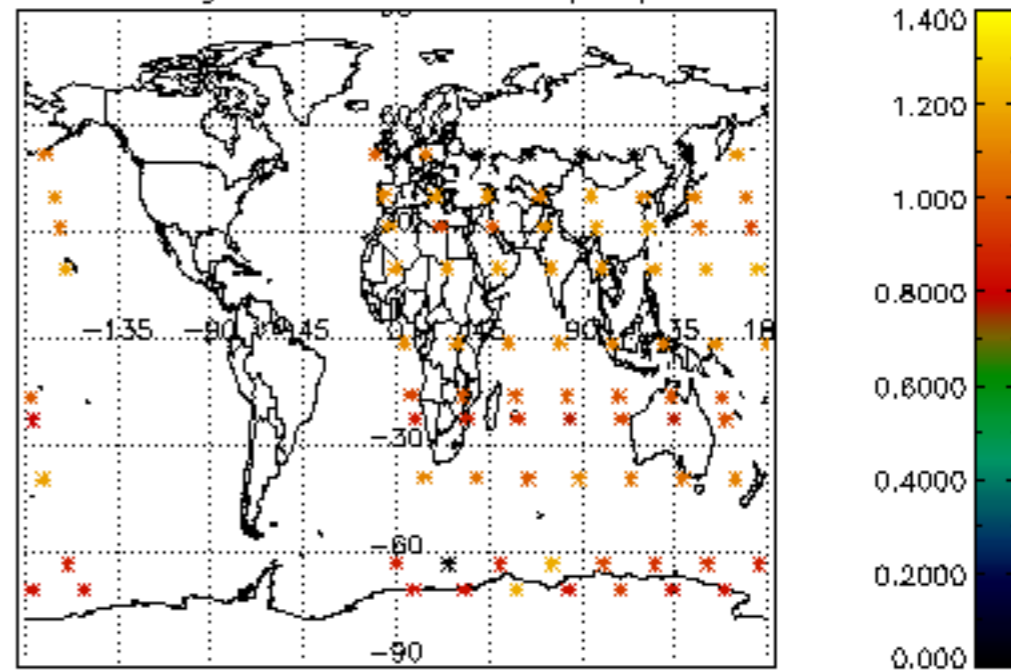




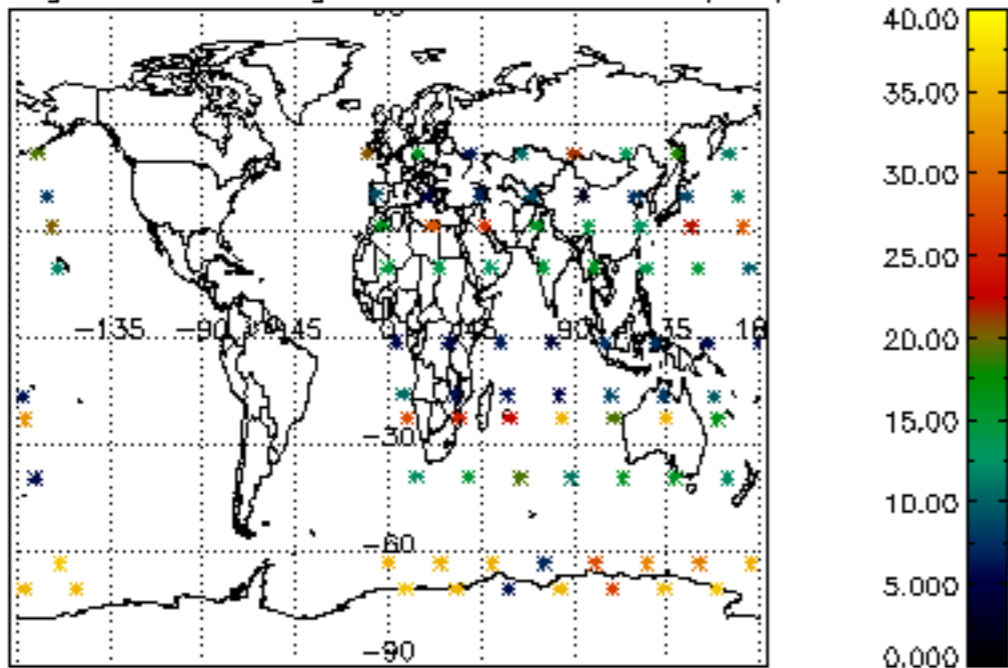
Percentage of cosmic ray hits per profile



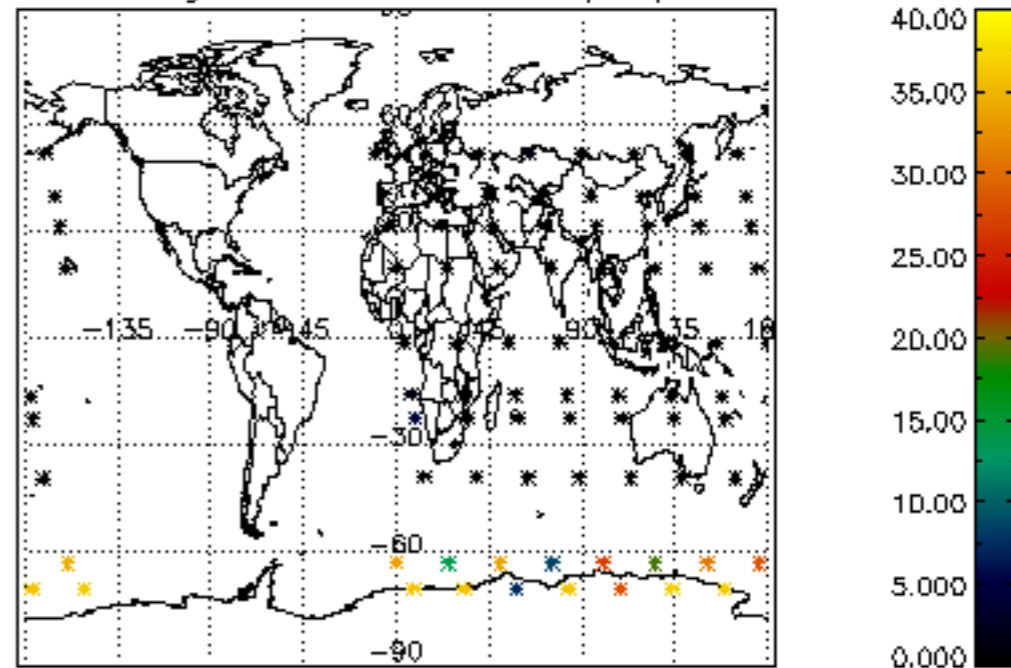
Percentage of datation errors per profile



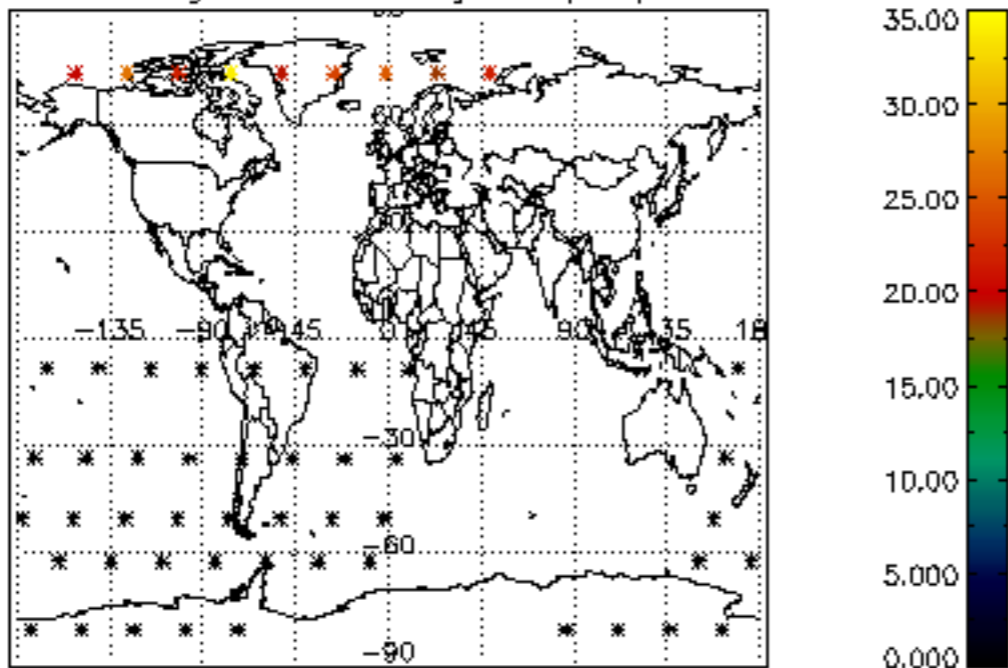
Percentage of star falling outside central band per profile



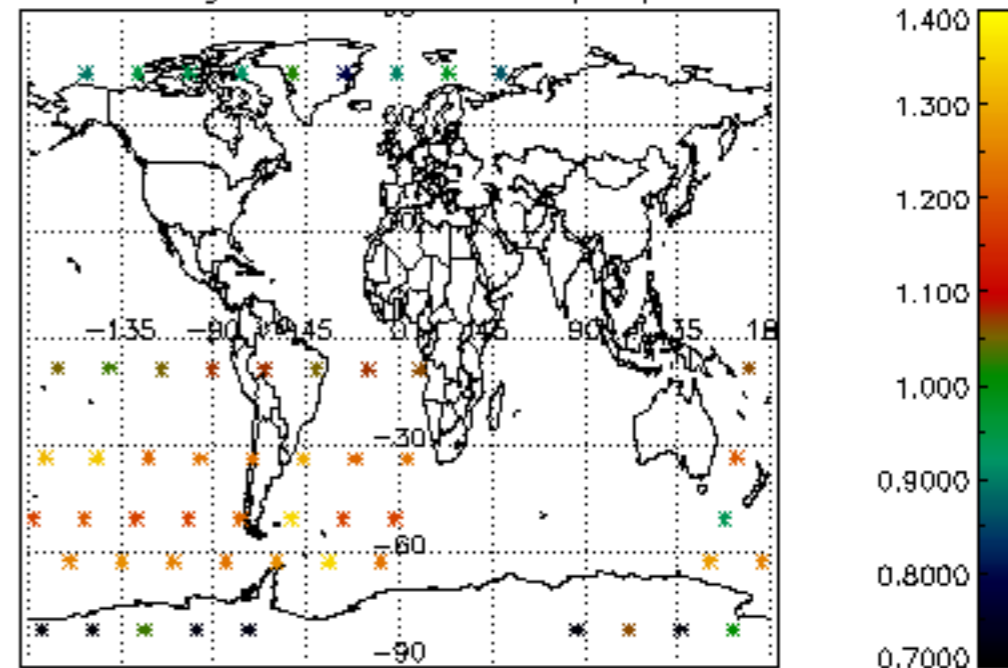
Percentage of saturation errors per profile



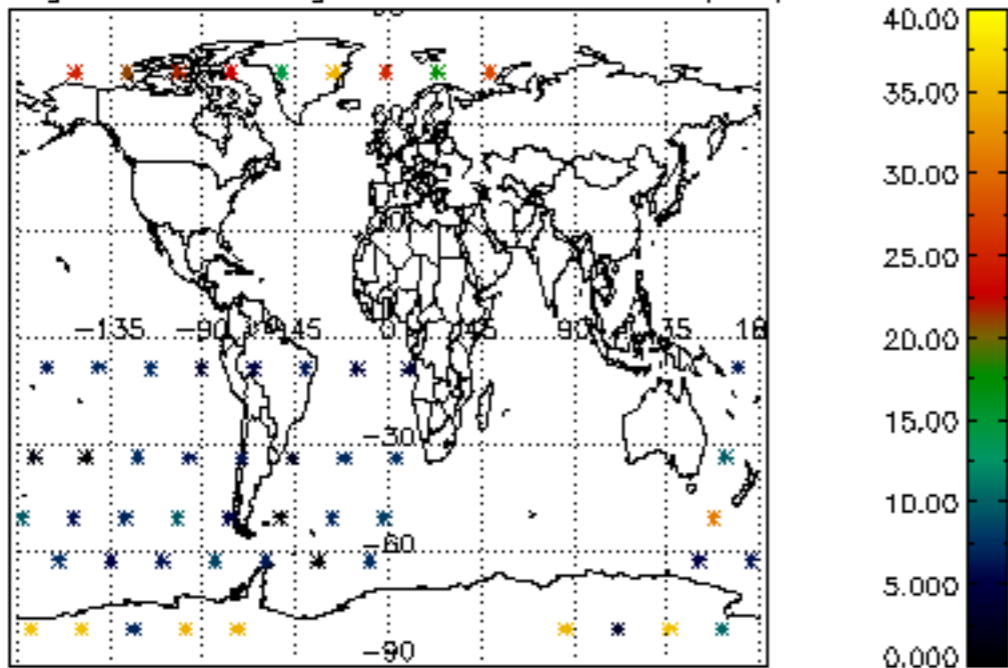
Percentage of cosmic ray hits per profile



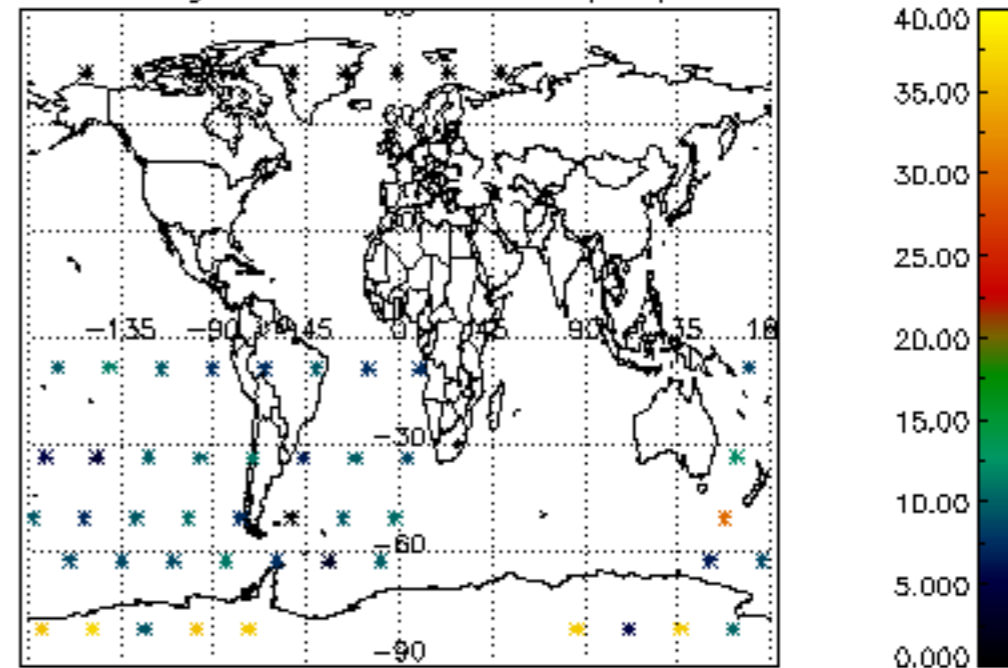
Percentage of datation errors per profile

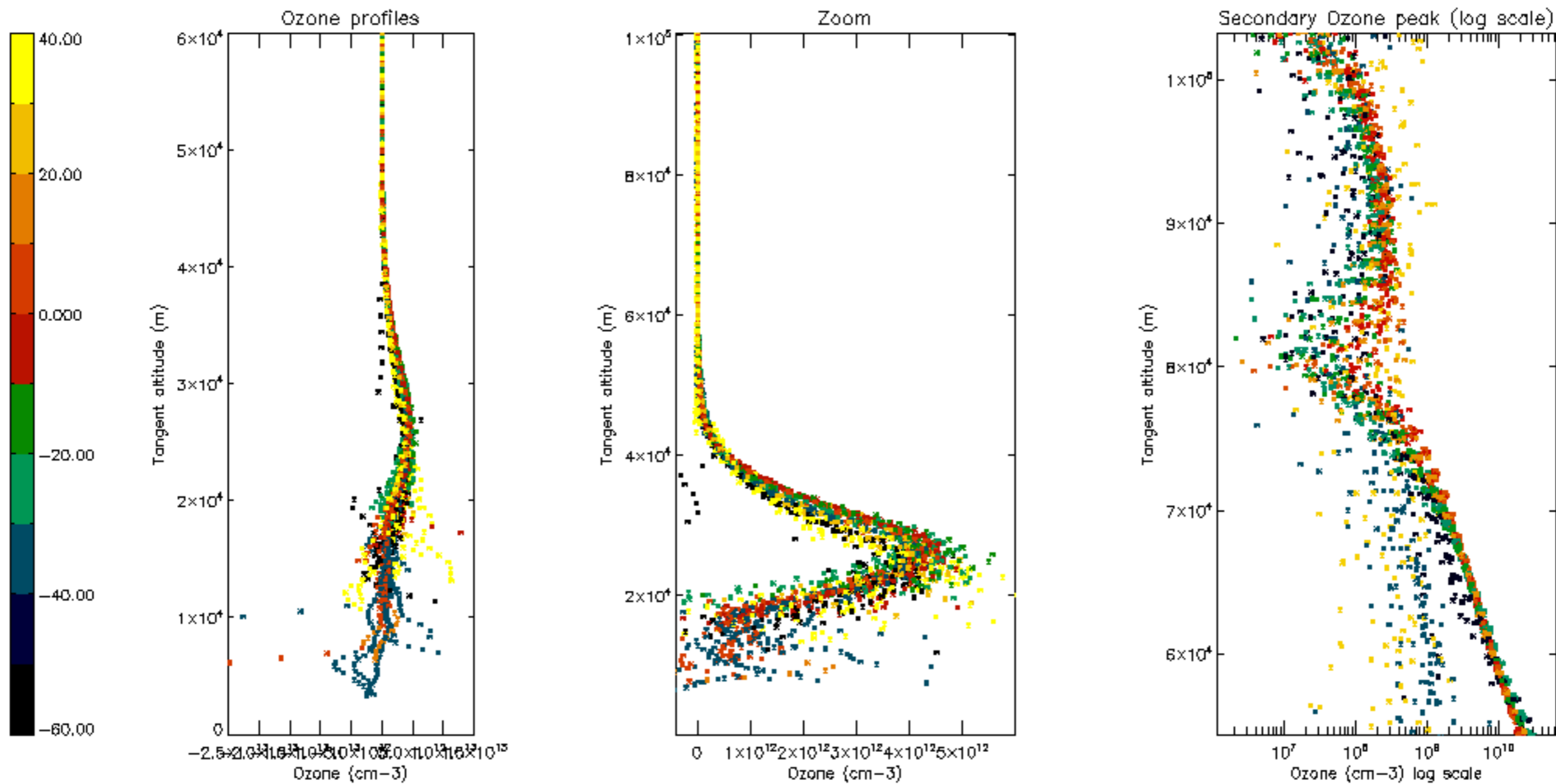


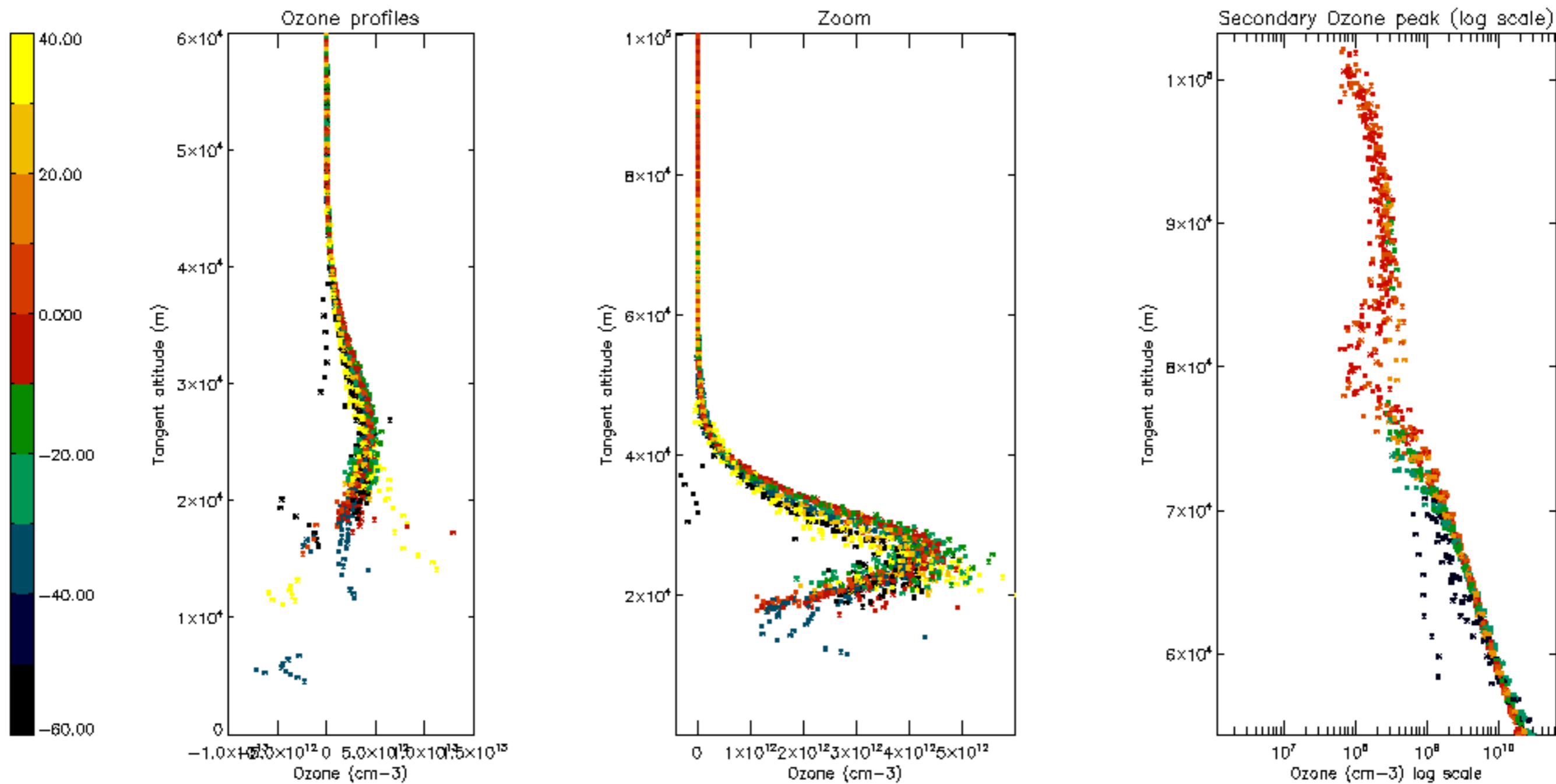
Percentage of star falling outside central band per profile

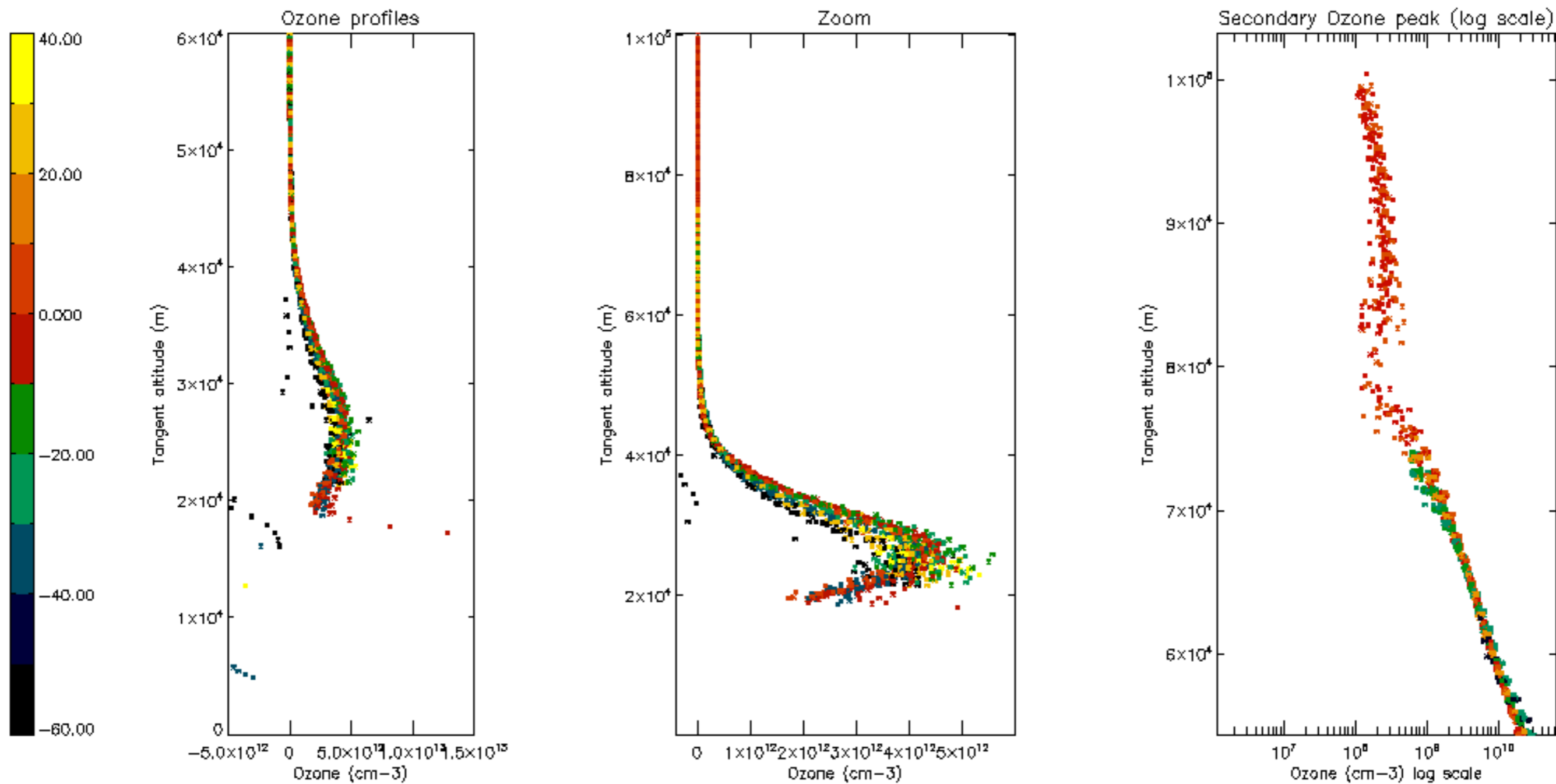


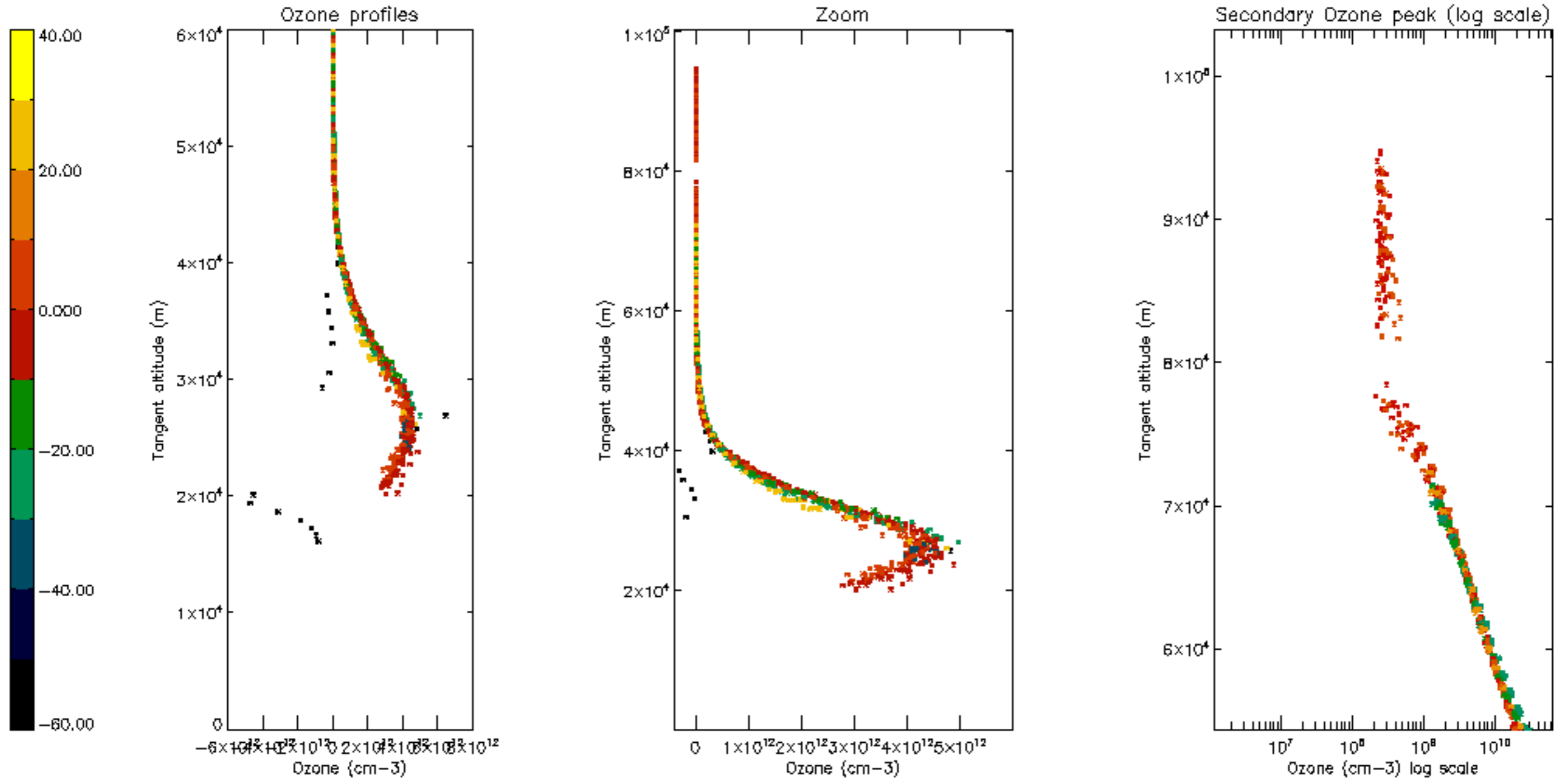
Percentage of saturation errors per profile

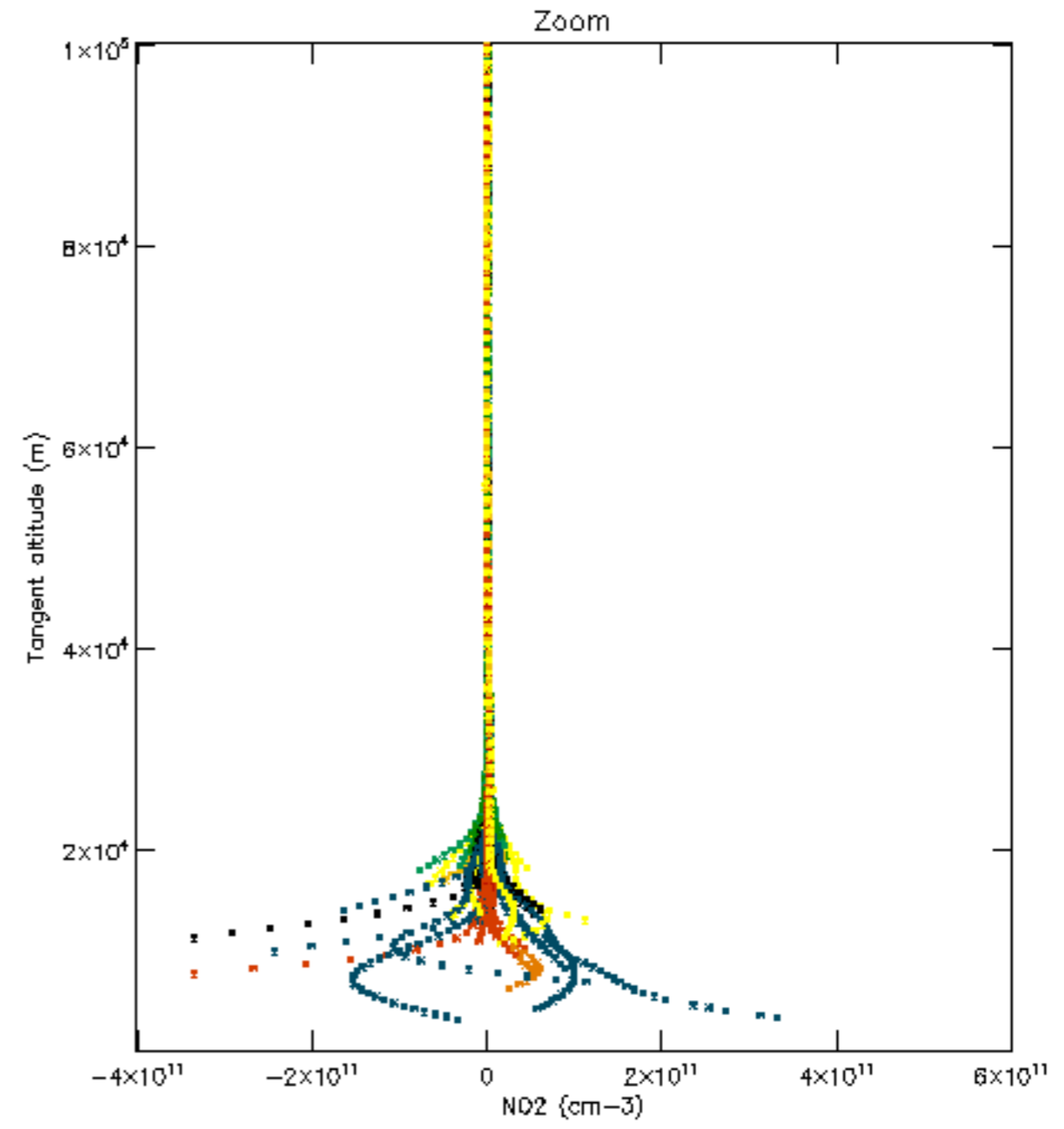
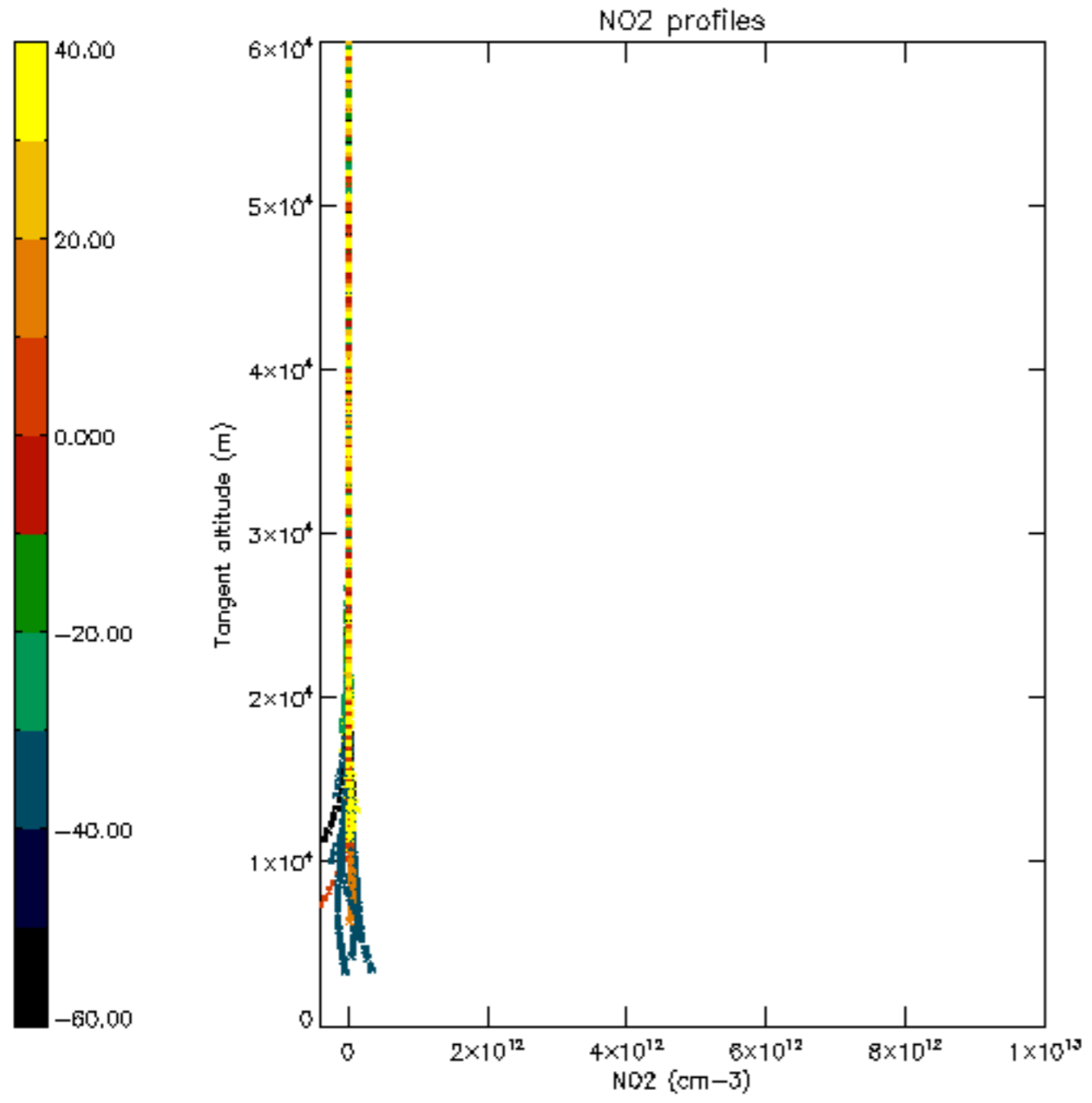


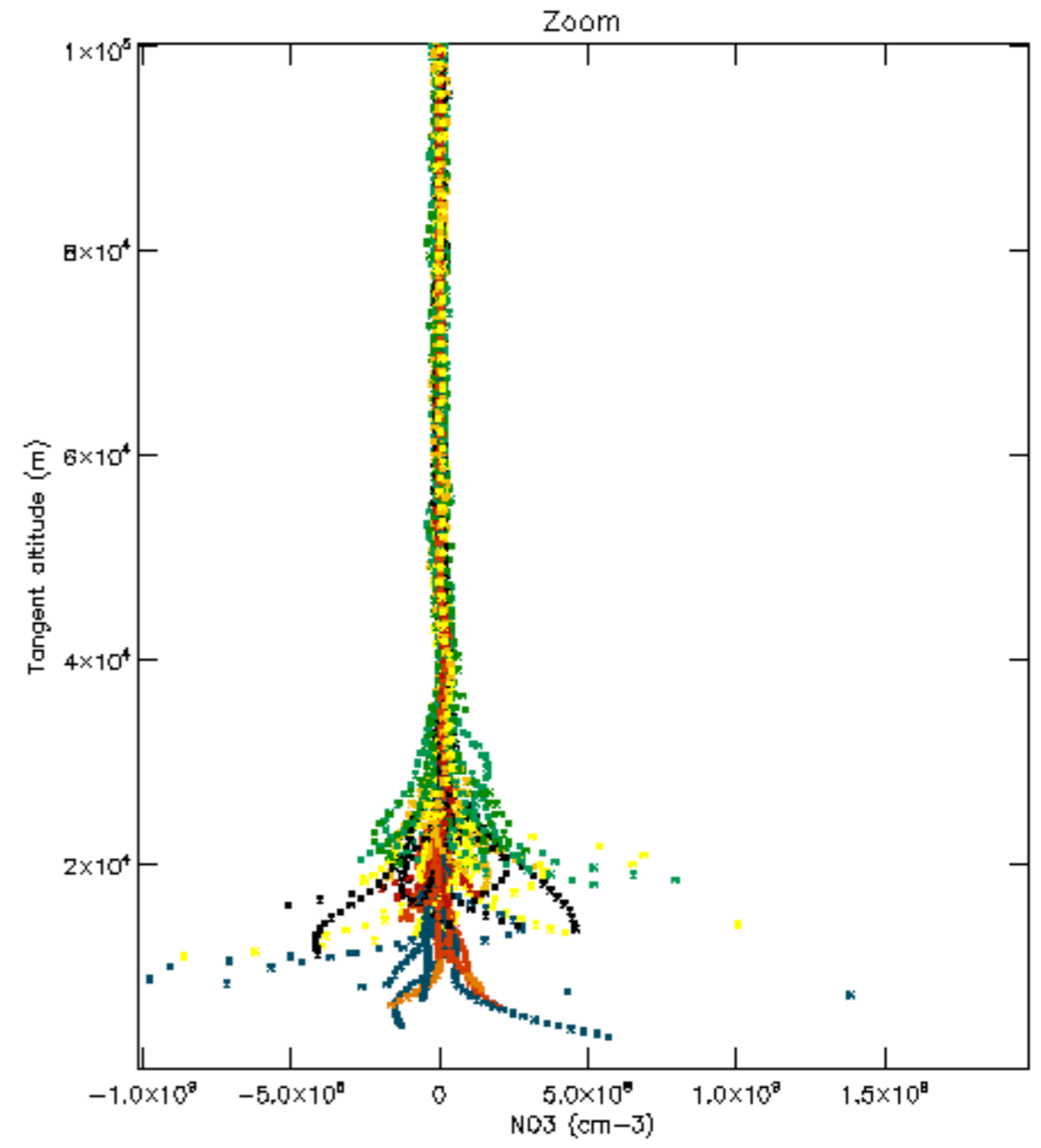
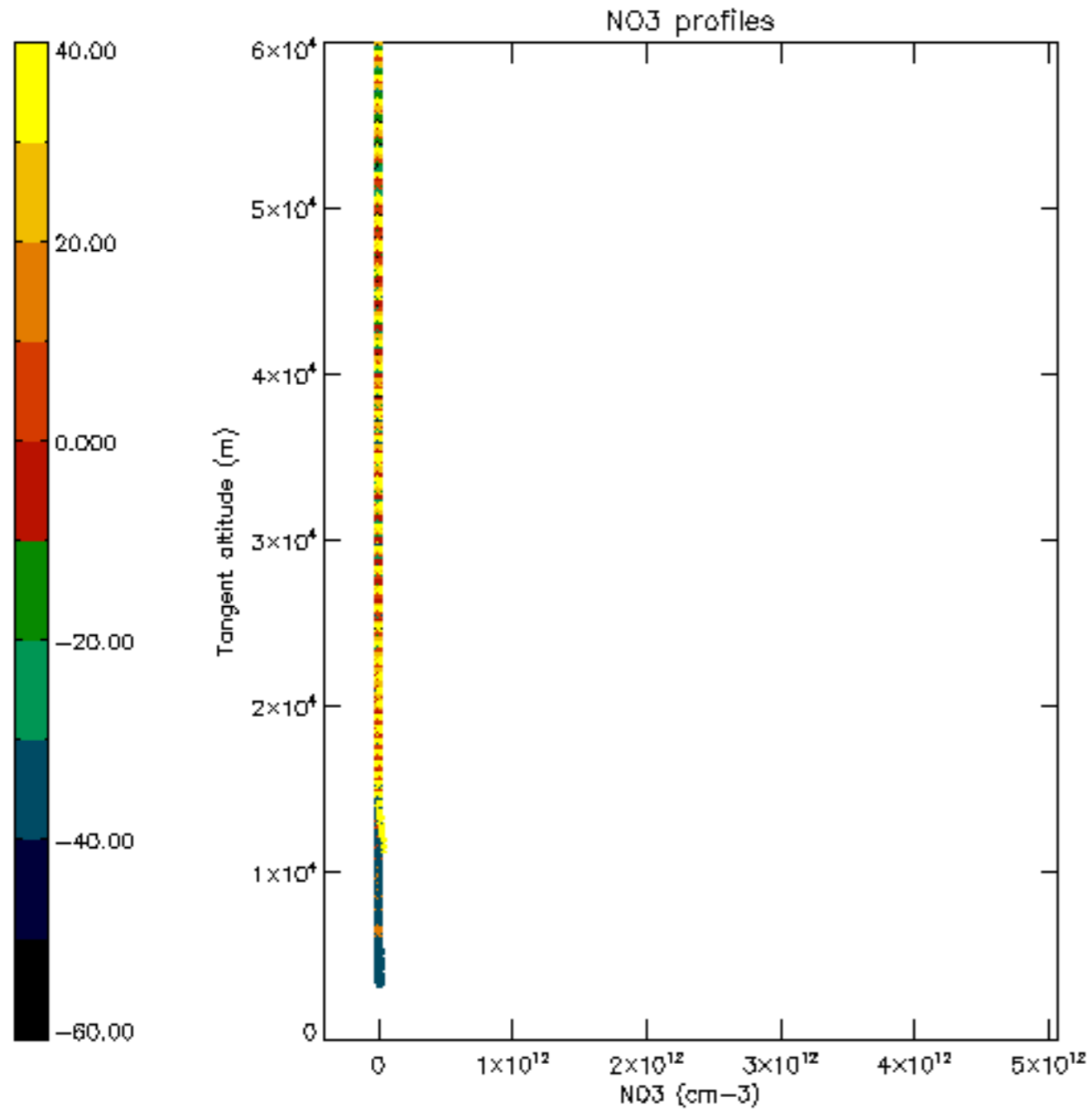


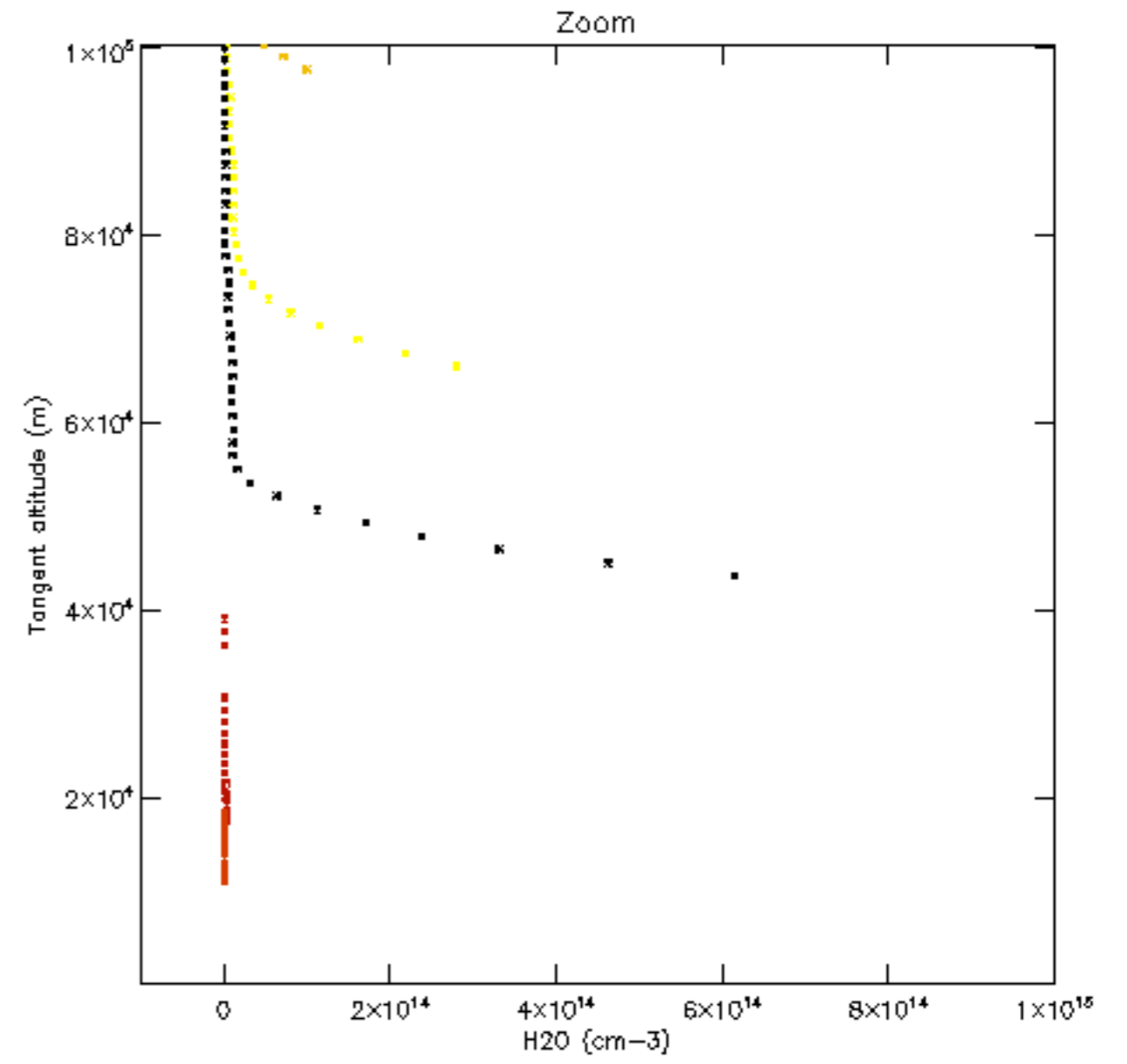
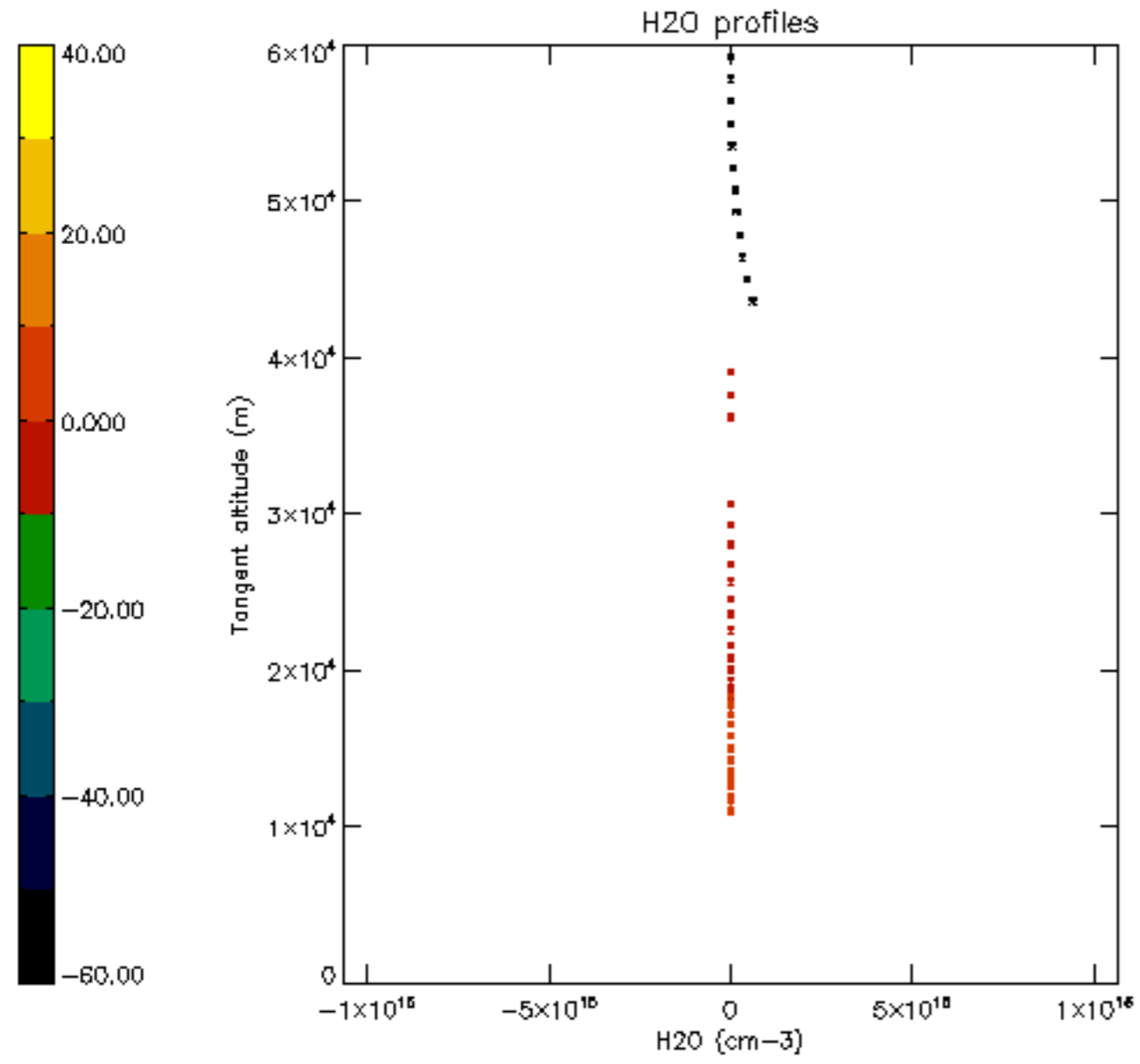


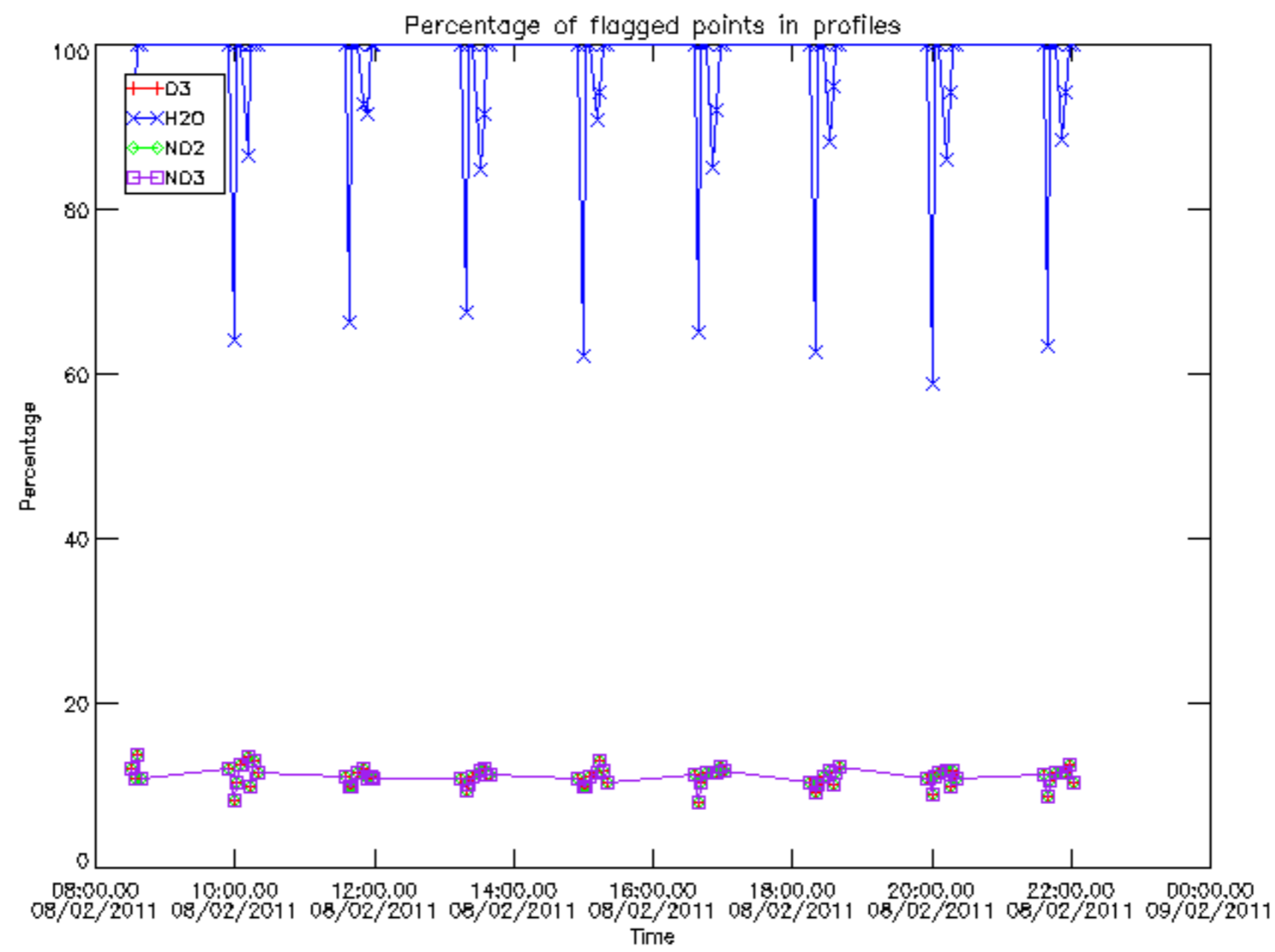




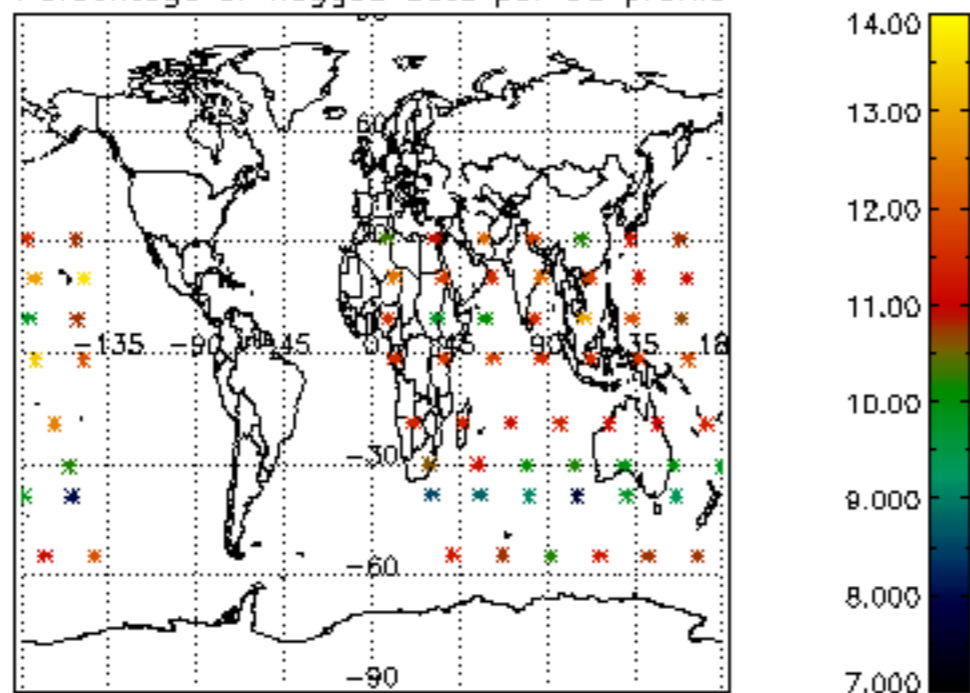




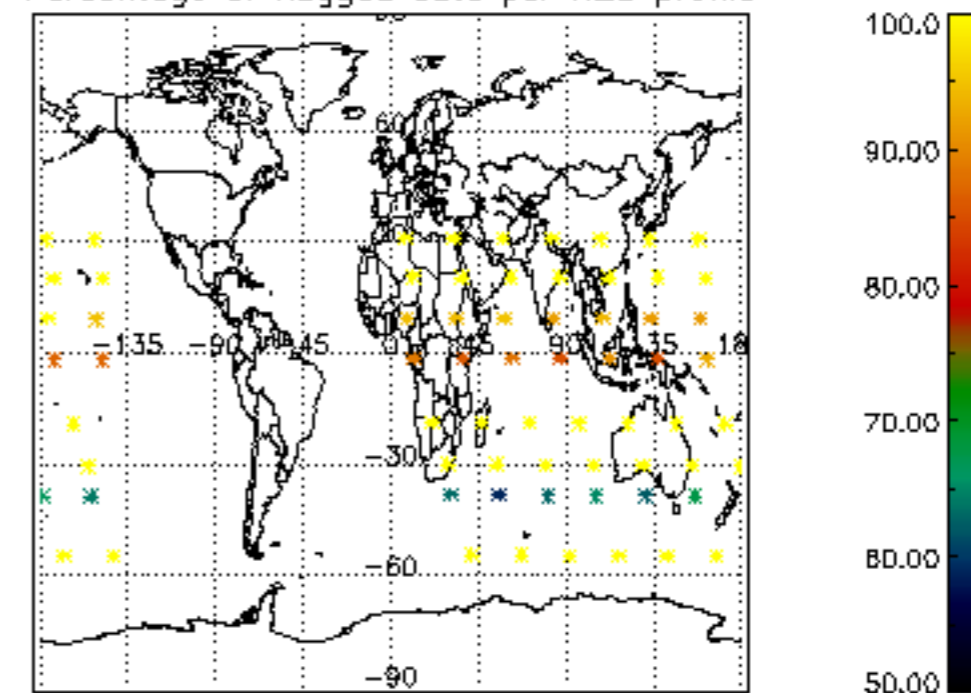




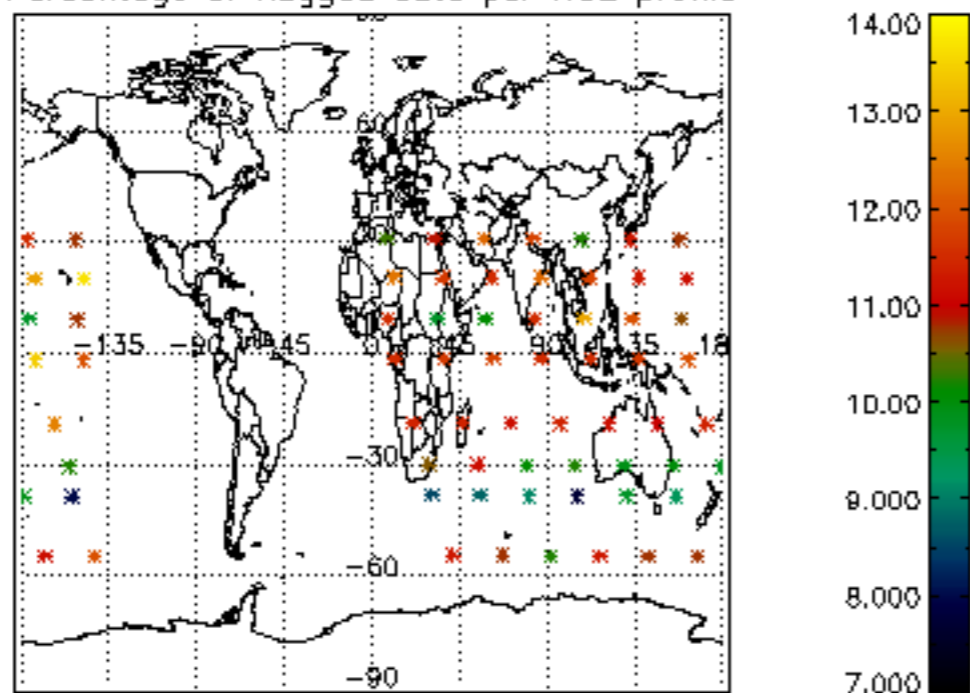
Percentage of flagged data per D3 profile



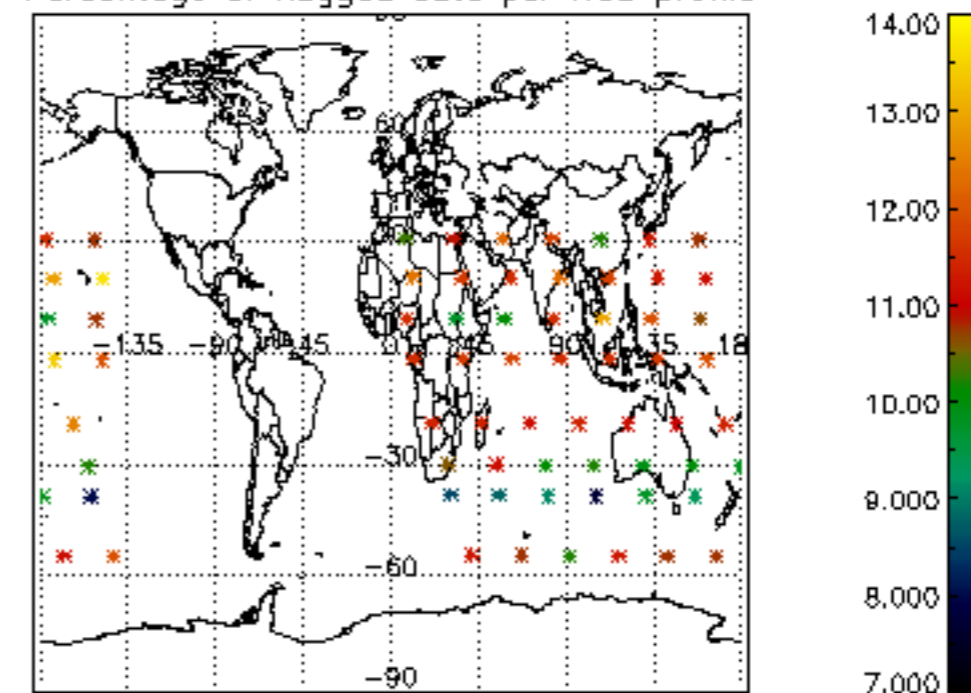
Percentage of flagged data per H2O profile

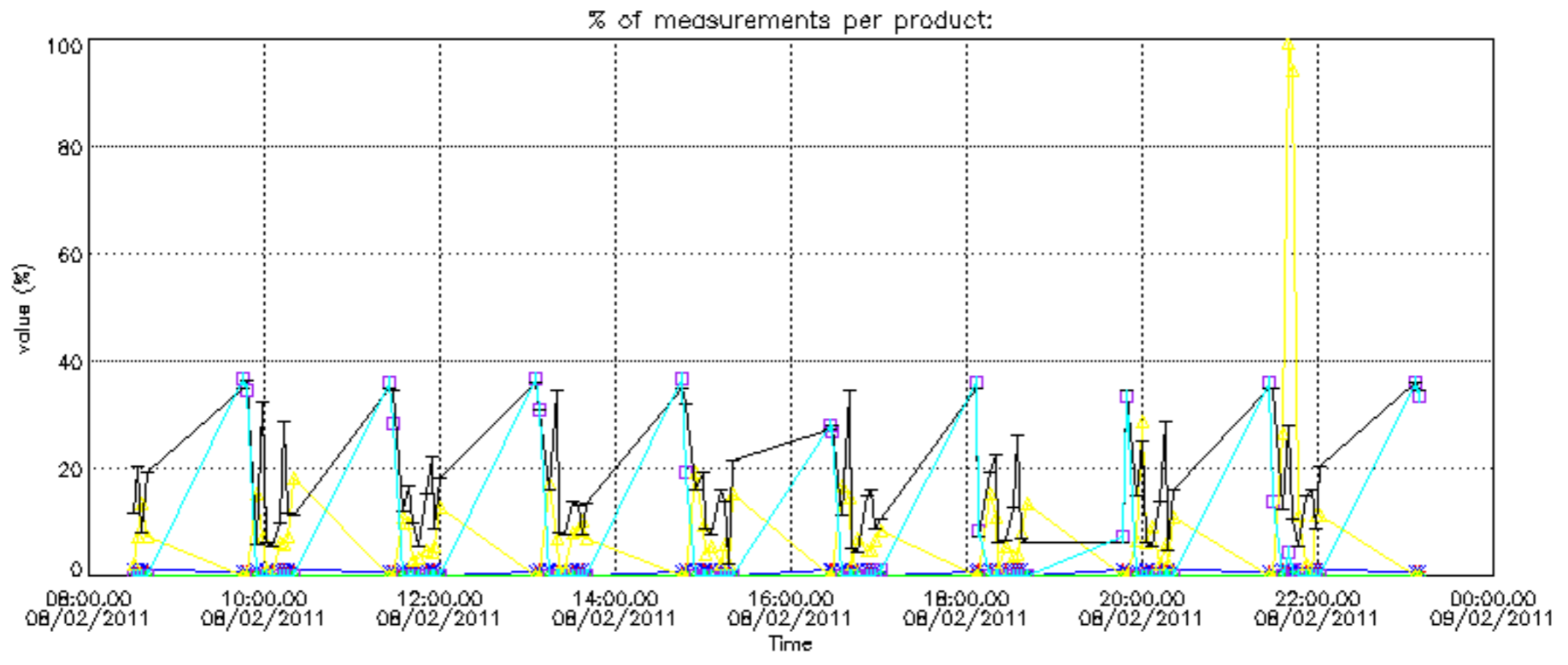


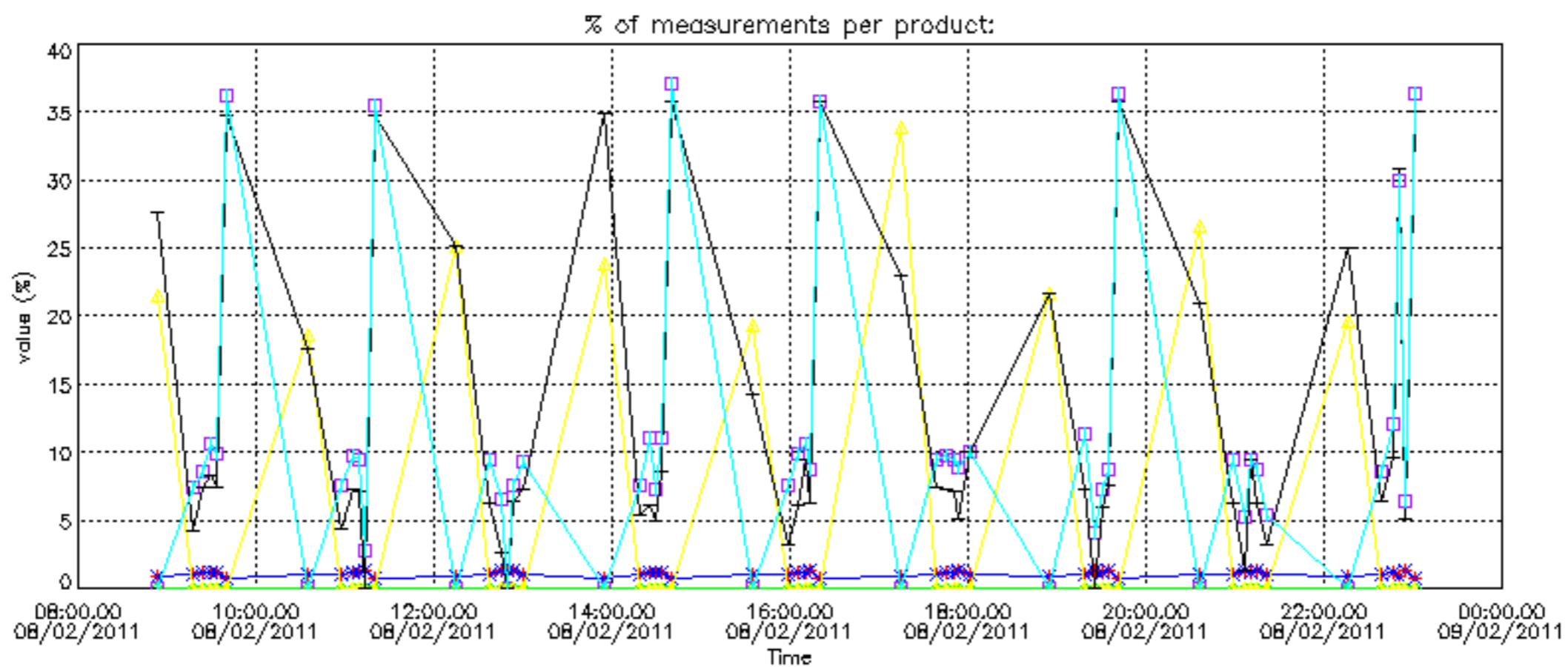
Percentage of flagged data per NO2 profile



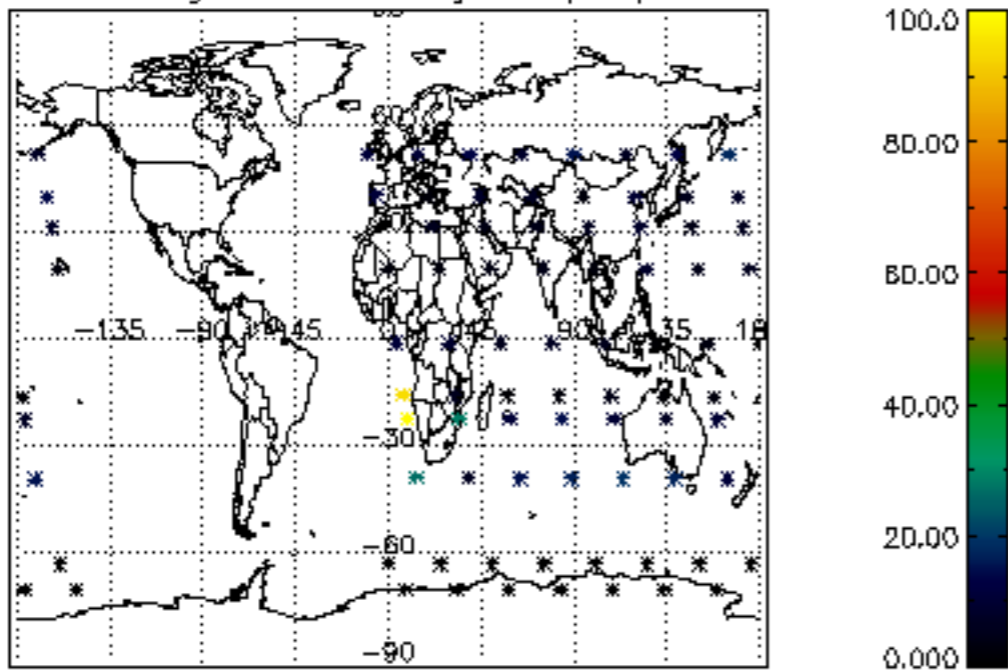
Percentage of flagged data per NO3 profile



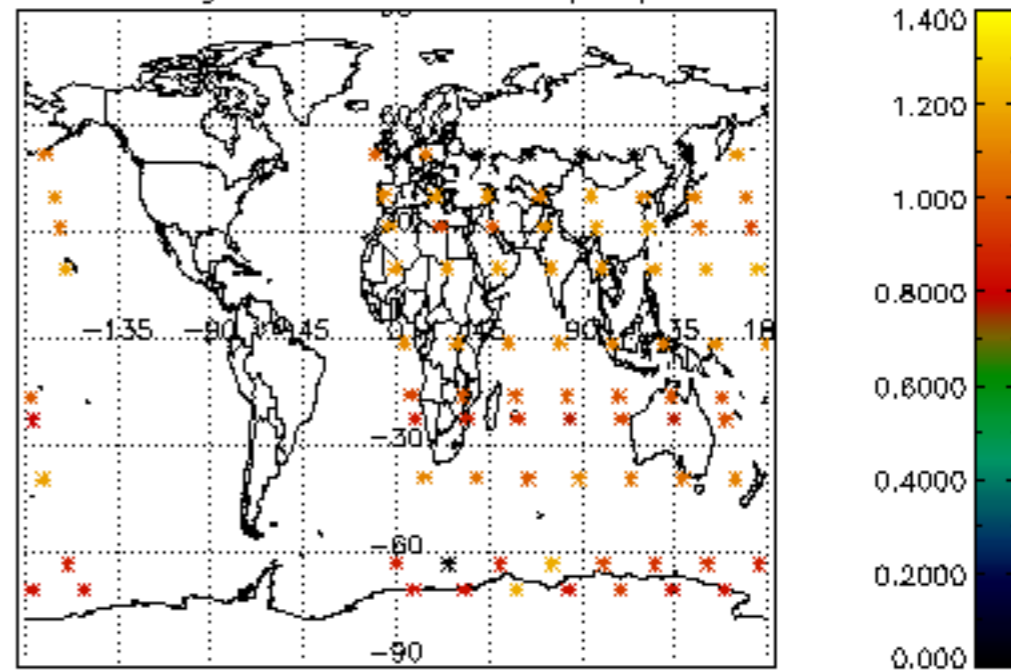




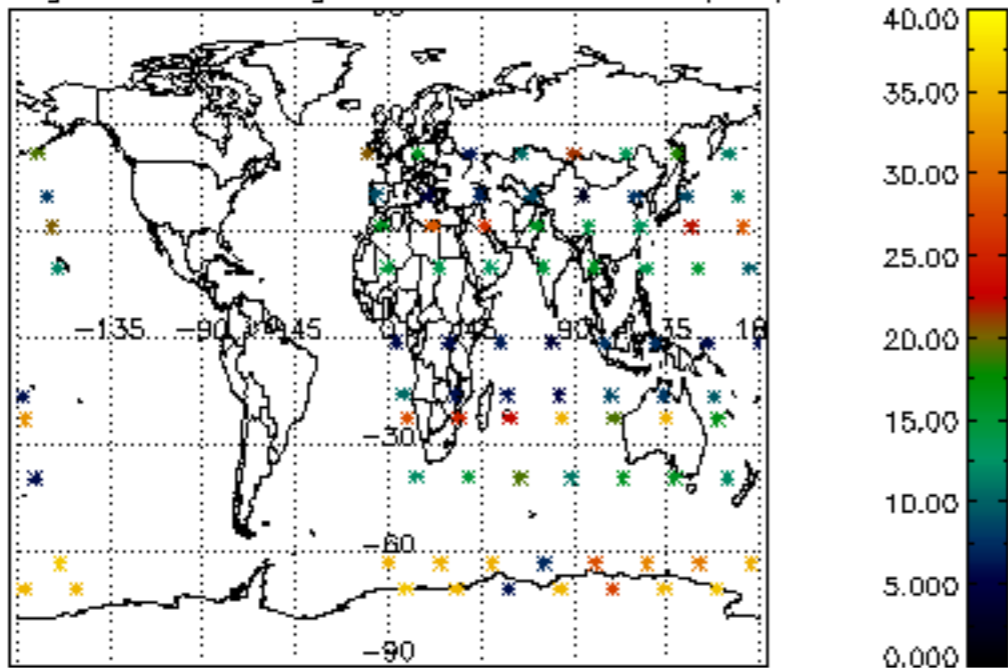
Percentage of cosmic ray hits per profile



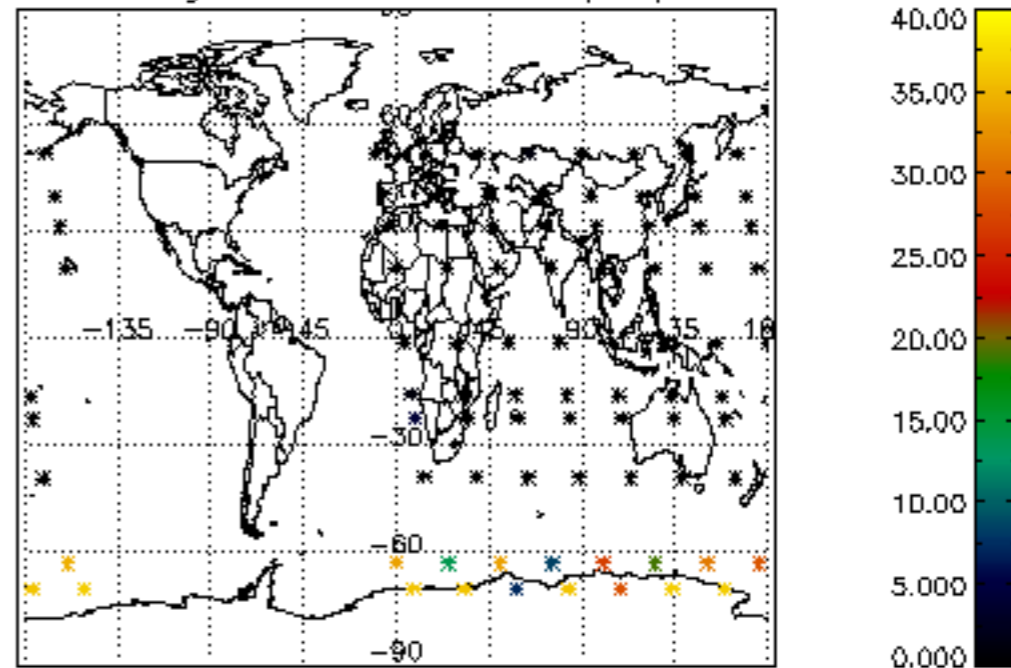
Percentage of datation errors per profile



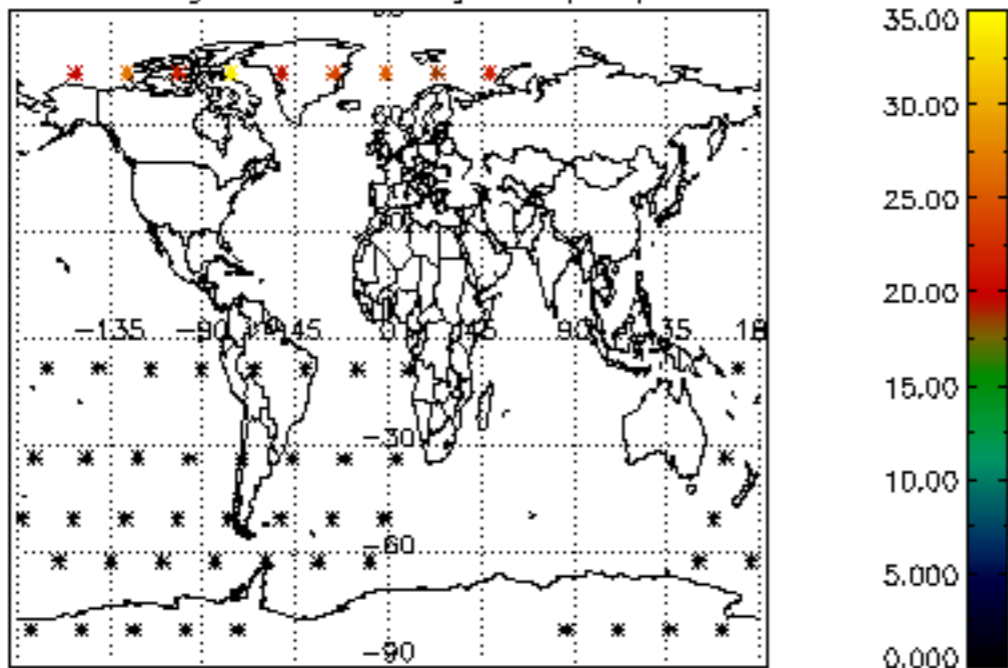
Percentage of star falling outside central band per profile



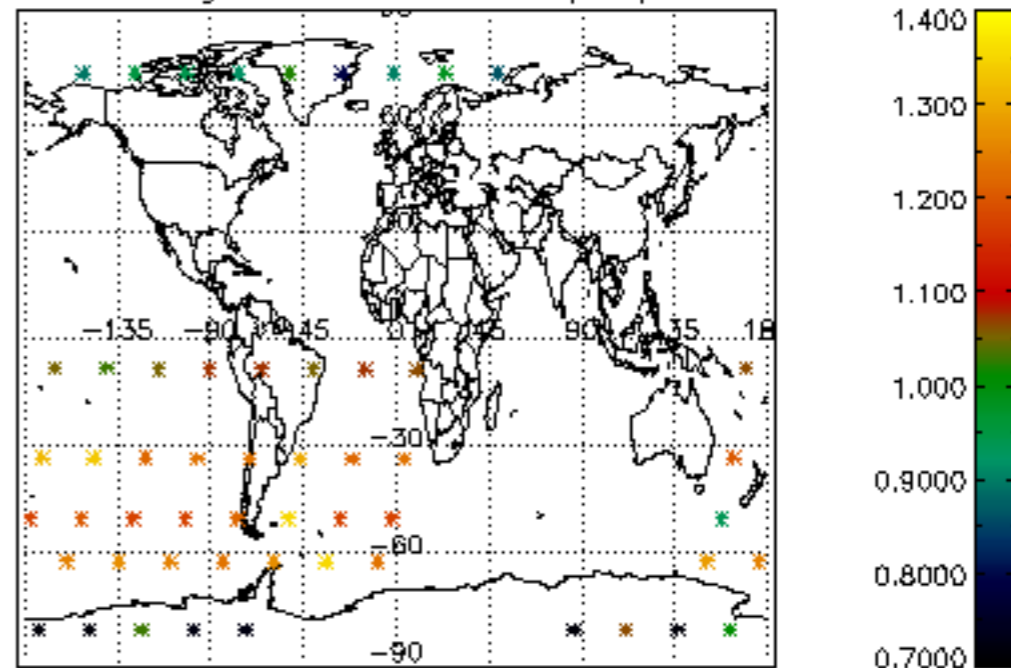
Percentage of saturation errors per profile



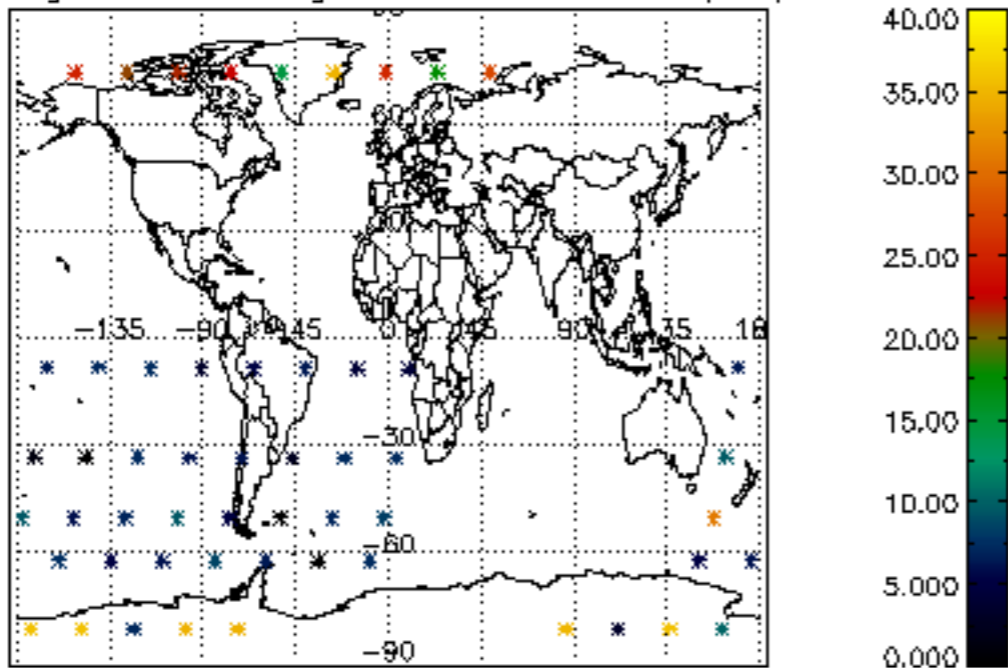
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

