

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 10:11:41
Data source version	GOMOS/6.01
Start time of products	11-02-2011 (11FEB2011 00:00:00)
Stop time of products	12-02-2011 (12FEB2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	245
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

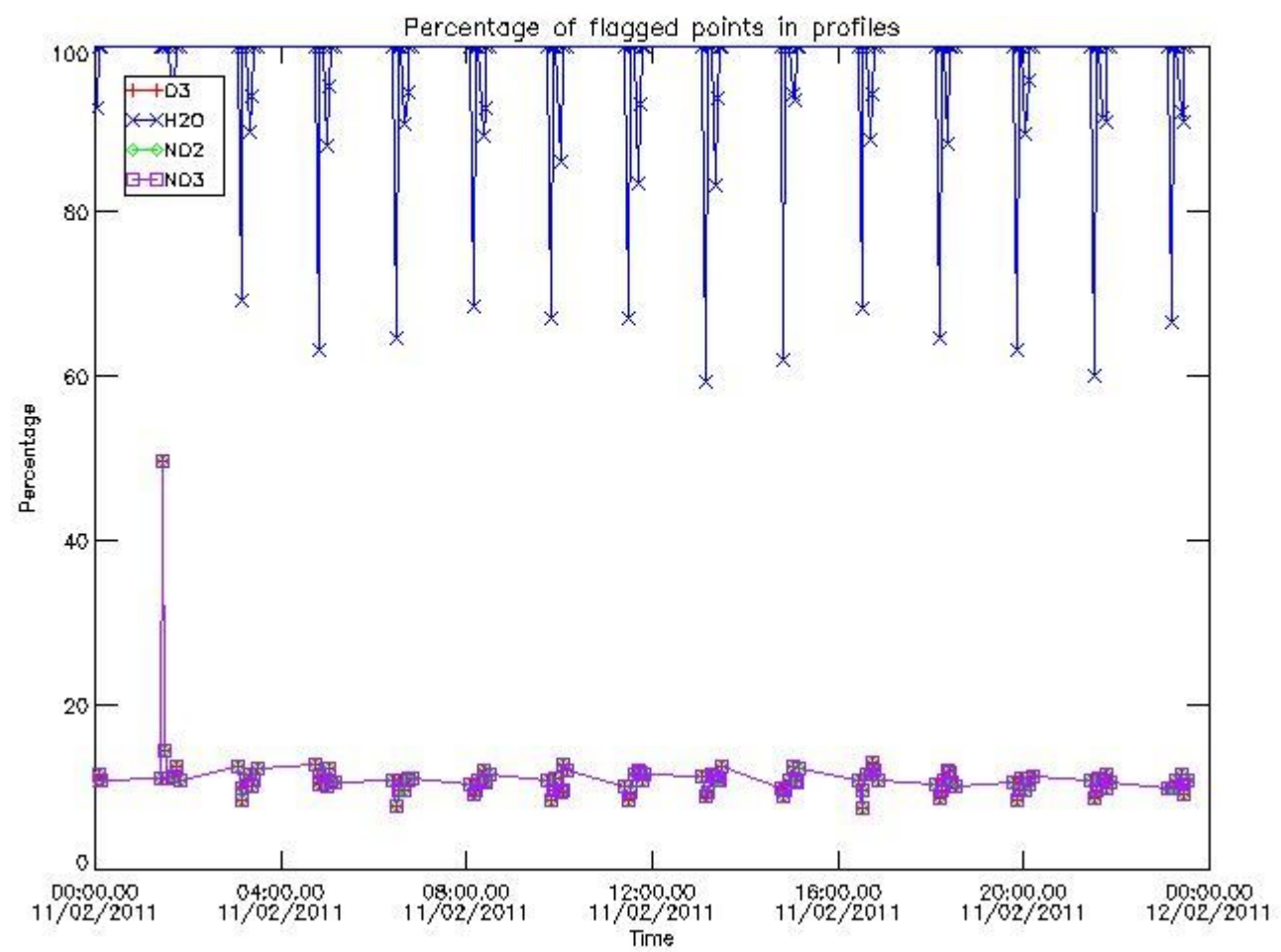
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110211_000254_000000483099_00232_46798_9495.N1	11-FEB-2011 00:02:54	Dark	47.500	12	Alp1Cru	0.77500	30000.	95	46798	No
2	GOM_NL__2PRFIN20110211_000526_000000443099_00232_46798_9496.N1	11-FEB-2011 00:05:26	Dark	44.000	99	Del Cen	2.5750	26000.	88	46798	No
3	GOM_NL__2PRFIN20110211_000839_000000473099_00232_46798_9497.N1	11-FEB-2011 00:08:39	Dark	46.500	113	Mu Vel	2.6920	5000.0	93	46798	No
4	GOM_NL__2PRFIN20110211_002239_000000473099_00232_46798_9498.N1	11-FEB-2011 00:22:39	Straylight	47.000	48	30Alp Hya	1.9770	4100.0	94	46798	No
5	GOM_NL__2PRFIN20110211_003353_000000483099_00232_46798_9499.N1	11-FEB-2011 00:33:53	Bright	47.500	166	17Eps Leo	2.9800	6000.0	95	46798	No
6	GOM_NL__2PRFIN20110211_004552_000000463099_00232_46798_9500.N1	11-FEB-2011 00:45:52	Bright	46.000	82	48Bet UMa	2.3650	10600.	92	46798	No
7	GOM_NL__2PRFIN20110211_005308_000000423099_00232_46798_9501.N1	11-FEB-2011 00:53:08	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	46798	No
8	GOM_NL__2PRFIN20110211_005757_000000393099_00232_46798_9502.N1	11-FEB-2011 00:57:57	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	46798	No
9	GOM_NL__2PRFIN20110211_010132_000000413099_00232_46798_9503.N1	11-FEB-2011 01:01:32	Bright	40.500	130	23Bet Dra	2.7990	5800.0	81	46798	No
10	GOM_NL__2PRFIN20110211_010535_000000363099_00232_46798_9504.N1	11-FEB-2011 01:05:35	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	46798	No
11	GOM_NL__2PRFIN20110211_010838_000000293099_00232_46798_9505.N1	11-FEB-2011 01:08:38	Twilight_and_stray	29.000	133	40Zet Her	2.8070	6000.0	58	46798	No
12	GOM_NL__2PRFIN20110211_011417_000000613099_00232_46798_9506.N1	11-FEB-2011 01:14:17	Bright	61.000	59	55Alp Oph	2.0800	8900.0	122	46798	No
13	GOM_NL__2PRFIN20110211_011631_000000523099_00232_46798_9507.N1	11-FEB-2011 01:16:31	Bright	51.500	126	60Bet Oph	2.7700	4250.0	103	46798	No
14	GOM_NL__2PRFIN20110211_012332_000000503099_00232_46798_9508.N1	11-FEB-2011 01:23:32	Dark	50.000	86	35Eta Oph	2.4300	10200.	100	46798	No
15	GOM_NL__2PRFIN20110211_012821_000000543099_00232_46798_9509.N1	11-FEB-2011 01:28:21	Dark	54.000	16	21Alp Sco	1.0200	3000.0	108	46798	No
16	GOM_NL__2PRFIN20110211_013017_000000533099_00232_46798_9510.N1	11-FEB-2011 01:30:17	Dark	53.000	158	6Pi Sco	2.9060	28000.	106	46798	No
17	GOM_NL__2PRFIN20110211_013418_000000463099_00233_46799_9572.N1	11-FEB-2011 01:34:18	Dark	45.500	131	Gam Lup	2.8000	26000.	91	46799	No
18	GOM_NL__2PRFIN20110211_013957_000000453099_00233_46799_9573.N1	11-FEB-2011 01:39:57	Dark	45.000	10	Bet Cen	0.61000	28000.	90	46799	No
19	GOM_NL__2PRFIN20110211_014308_000000503099_00233_46799_9574.N1	11-FEB-2011 01:43:08	Dark	49.500	12	Alp1Cru	0.77500	30000.	99	46799	No
20	GOM_NL__2PRFIN20110211_014541_000000453099_00233_46799_9575.N1	11-FEB-2011 01:45:41	Dark	44.500	99	Del Cen	2.5750	26000.	89	46799	No
21	GOM_NL__2PRFIN20110211_014854_000000473099_00233_46799_9576.N1	11-FEB-2011 01:48:54	Dark	47.000	113	Mu Vel	2.6920	5000.0	94	46799	No
22	GOM_NL__2PRFIN20110211_020253_000000523099_00233_46799_9577.N1	11-FEB-2011 02:02:53	Straylight	51.500	48	30Alp Hya	1.9770	4100.0	103	46799	No
23	GOM_NL__2PRFIN20110211_021407_000000463099_00233_46799_9578.N1	11-FEB-2011 02:14:07	Bright	46.000	166	17Eps Leo	2.9800	6000.0	92	46799	No
24	GOM_NL__2PRFIN20110211_022606_000000463099_00233_46799_9579.N1	11-FEB-2011 02:26:06	Bright	45.500	82	48Bet UMa	2.3650	10600.	91	46799	No
25	GOM_NL__2PRFIN20110211_023321_000000363099_00233_46799_9580.N1	11-FEB-2011 02:33:21	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	46799	No
26	GOM_NL__2PRFIN20110211_023811_000000433099_00233_46799_9581.N1	11-FEB-2011 02:38:11	Bright	42.500	119	14Eta Dra	2.7270	4700.0	85	46799	No
27	GOM_NL__2PRFIN20110211_024146_000000393099_00233_46799_9582.N1	11-FEB-2011 02:41:46	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	46799	No
28	GOM_NL__2PRFIN20110211_024549_000000373099_00233_46799_9583.N1	11-FEB-2011 02:45:49	Bright	36.500	5	3Alp Lyr	0.033000	11000.	73	46799	No
29	GOM_NL__2PRFIN20110211_024852_000000293099_00233_46799_9584.N1	11-FEB-2011 02:48:52	Twilight_and_stray	29.000	133	40Zet Her	2.8070	6000.0	58	46799	No
30	GOM_NL__2PRFIN20110211_025432_000000613099_00233_46799_9585.N1	11-FEB-2011 02:54:32	Bright	61.000	59	55Alp Oph	2.0800	8900.0	122	46799	No
31	GOM_NL__2PRFIN20110211_025645_000000453099_00233_46799_9586.N1	11-FEB-2011 02:56:45	Bright	44.500	126	60Bet Oph	2.7700	4250.0	89	46799	No
32	GOM_NL__2PRFIN20110211_030347_000000493099_00233_46799_9587.N1	11-FEB-2011 03:03:47	Dark	49.000	86	35Eta Oph	2.4300	10200.	98	46799	No
33	GOM_NL__2PRFIN20110211_030836_000000673099_00233_46799_9588.N1	11-FEB-2011 03:08:36	Dark	67.000	16	21Alp Sco	1.0200	3000.0	134	46799	No
34	GOM_NL__2PRFIN20110211_031033_000000513099_00233_46799_9589.N1	11-FEB-2011 03:10:33	Dark	51.000	158	6Pi Sco	2.9060	28000.	102	46799	No
35	GOM_NL__2PRFIN20110211_031433_000000473099_00234_46800_9584.N1	11-FEB-2011 03:14:33	Dark	47.000	131	Gam Lup	2.8000	26000.	94	46800	No
36	GOM_NL__2PRFIN20110211_032012_000000443099_00234_46800_9585.N1	11-FEB-2011 03:20:12	Dark	44.000	10	Bet Cen	0.61000	28000.	88	46800	No
37	GOM_NL__2PRFIN20110211_032323_000000503099_00234_46800_9586.N1	11-FEB-2011 03:23:23	Dark	50.000	12	Alp1Cru	0.77500	30000.	100	46800	No
38	GOM_NL__2PRFIN20110211_032444_000000523099_00234_46800_9587.N1	11-FEB-2011 03:24:44	Dark	51.500	64	Gam Cen	2.2000	10600.	103	46800	No
39	GOM_NL__2PRFIN20110211_032908_000000423099_00234_46800_9588.N1	11-FEB-2011 03:29:08	Dark	41.500	113	Mu Vel	2.6920	5000.0	83	46800	No
40	GOM_NL__2PRFIN20110211_034308_000000533099_00234_46800_9589.N1	11-FEB-2011 03:43:08	Straylight	53.000	48	30Alp Hya	1.9770	4100.0	106	46800	No
41	GOM_NL__2PRFIN20110211_035420_000000473099_00234_46800_9590.N1	11-FEB-2011 03:54:20	Bright	47.000	166	17Eps Leo	2.9800	6000.0	94	46800	No
42	GOM_NL__2PRFIN20110211_040619_000000473099_00234_46800_9591.N1	11-FEB-2011 04:06:19	Bright	47.000	82	48Bet UMa	2.3650	10600.	94	46800	No

220	GOM_NL__2PRFIN20110211_213121_000000583099_00244_46810_0212.N1	11-FEB-2011 21:31:21	Dark	58.000	16	21Alp Sco	1.0200	3000.0	116	46810	No
221	GOM_NL__2PRFIN20110211_213320_000000543099_00244_46810_0213.N1	11-FEB-2011 21:33:20	Dark	53.500	158	6Pi Sco	2.9060	28000.	107	46810	No
222	GOM_NL__2PRFIN20110211_213718_000000463099_00245_46811_0205.N1	11-FEB-2011 21:37:18	Dark	45.500	131	Gam Lup	2.8000	26000.	91	46811	No
223	GOM_NL__2PRFIN20110211_214253_000000473099_00245_46811_0206.N1	11-FEB-2011 21:42:53	Dark	46.500	10	Bet Cen	0.61000	28000.	93	46811	No
224	GOM_NL__2PRFIN20110211_214602_000000443099_00245_46811_0207.N1	11-FEB-2011 21:46:02	Dark	44.000	12	Alp1Cru	0.77500	30000.	88	46811	No
225	GOM_NL__2PRFIN20110211_214727_000000523099_00245_46811_0208.N1	11-FEB-2011 21:47:27	Dark	51.500	64	Gam Cen	2.2000	10600.	103	46811	No
226	GOM_NL__2PRFIN20110211_215148_000000483099_00245_46811_0209.N1	11-FEB-2011 21:51:48	Dark	48.000	113	Mu Vel	2.6920	5000.0	96	46811	No
227	GOM_NL__2PRFIN20110211_220542_000000503099_00245_46811_0210.N1	11-FEB-2011 22:05:42	Straylight	50.000	48	30Alp Hya	1.9770	4100.0	100	46811	No
228	GOM_NL__2PRFIN20110211_221648_000000483099_00245_46811_0211.N1	11-FEB-2011 22:16:48	Bright	47.500	166	17Eps Leo	2.9800	6000.0	95	46811	No
229	GOM_NL__2PRFIN20110211_222845_000000463099_00245_46811_0212.N1	11-FEB-2011 22:28:45	Bright	46.000	82	48Bet UMa	2.3650	10600.	92	46811	No
230	GOM_NL__2PRFIN20110211_223606_000000393099_00245_46811_0213.N1	11-FEB-2011 22:36:06	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	46811	No
231	GOM_NL__2PRFIN20110211_224056_000000433099_00245_46811_0214.N1	11-FEB-2011 22:40:56	Bright	43.000	119	14Eta Dra	2.7270	4700.0	86	46811	No
232	GOM_NL__2PRFIN20110211_224433_000000403099_00245_46811_0215.N1	11-FEB-2011 22:44:33	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	46811	No
233	GOM_NL__2PRFIN20110211_224838_000000383099_00245_46811_0216.N1	11-FEB-2011 22:48:38	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	46811	No
234	GOM_NL__2PRFIN20110211_225725_000000423099_00245_46811_0217.N1	11-FEB-2011 22:57:25	Bright	42.000	59	55Alp Oph	2.0800	8900.0	84	46811	No
235	GOM_NL__2PRFIN20110211_225939_000000453099_00245_46811_0218.N1	11-FEB-2011 22:59:39	Bright	44.500	126	60Bet Oph	2.7700	4250.0	89	46811	No
236	GOM_NL__2PRFIN20110211_230644_000000523099_00245_46811_0219.N1	11-FEB-2011 23:06:44	Dark	51.500	86	35Eta Oph	2.4300	10200.	103	46811	No
237	GOM_NL__2PRFIN20110211_231136_000000623099_00245_46811_0220.N1	11-FEB-2011 23:11:36	Dark	61.500	16	21Alp Sco	1.0200	3000.0	123	46811	No
238	GOM_NL__2PRFIN20110211_231336_000000513099_00245_46811_0221.N1	11-FEB-2011 23:13:36	Dark	51.000	158	6Pi Sco	2.9060	28000.	102	46811	No
239	GOM_NL__2PRFIN20110211_231732_000000473099_00246_46812_0214.N1	11-FEB-2011 23:17:32	Dark	46.500	131	Gam Lup	2.8000	26000.	93	46812	No
240	GOM_NL__2PRFIN20110211_232308_000000443099_00246_46812_0215.N1	11-FEB-2011 23:23:08	Dark	44.000	10	Bet Cen	0.61000	28000.	88	46812	No
241	GOM_NL__2PRFIN20110211_232617_000000503099_00246_46812_0216.N1	11-FEB-2011 23:26:17	Dark	49.500	12	Alp1Cru	0.77500	30000.	99	46812	No
242	GOM_NL__2PRFIN20110211_232742_000000563099_00246_46812_0217.N1	11-FEB-2011 23:27:42	Dark	55.500	64	Gam Cen	2.2000	10600.	111	46812	No
243	GOM_NL__2PRFIN20110211_233202_000000473099_00246_46812_0218.N1	11-FEB-2011 23:32:02	Dark	47.000	113	Mu Vel	2.6920	5000.0	94	46812	No
244	GOM_NL__2PRFIN20110211_234556_000000483099_00246_46812_0219.N1	11-FEB-2011 23:45:56	Straylight	47.500	48	30Alp Hya	1.9770	4100.0	95	46812	No
245	GOM_NL__2PRFIN20110211_235701_000000473099_00246_46812_0220.N1	11-FEB-2011 23:57:01	Bright	47.000	166	17Eps Leo	2.9800	6000.0	94	46812	No

3. Quality information per product

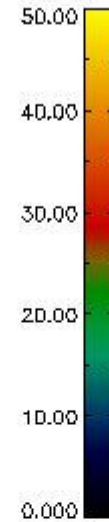
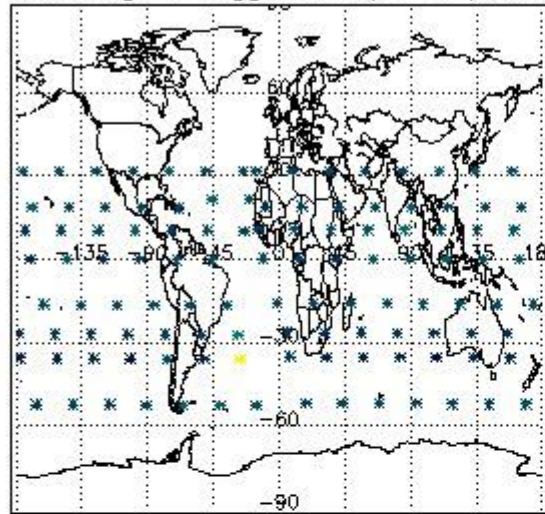
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

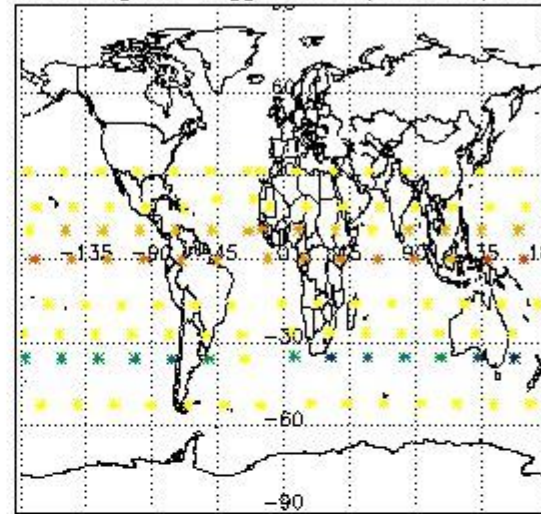


3.2 Plot quality information per product (world map)

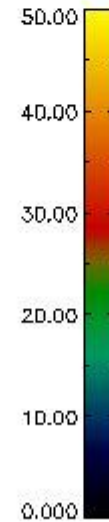
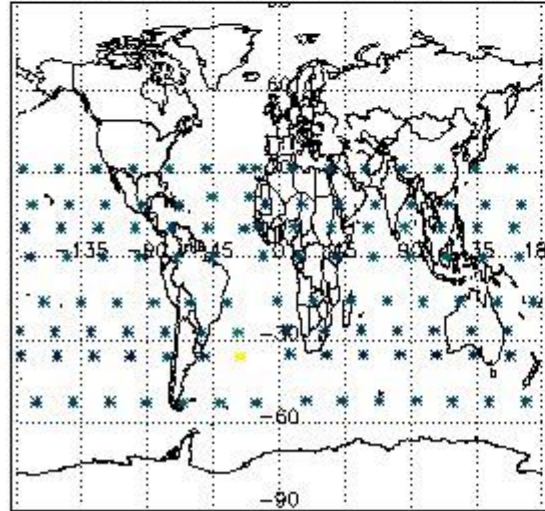
Percentage of flagged data per O3 profile



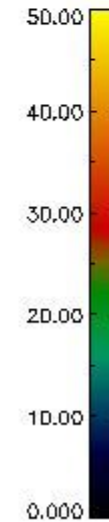
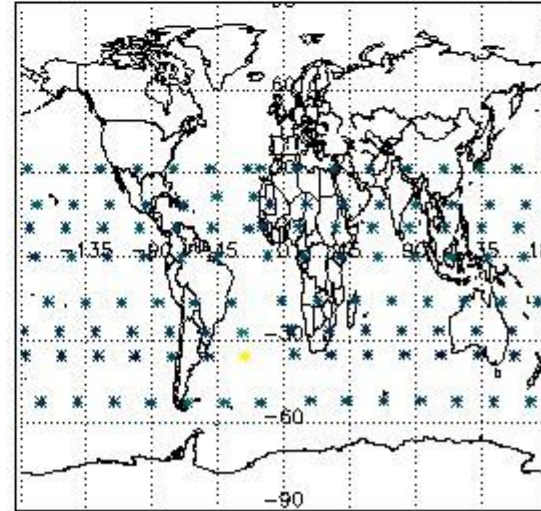
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

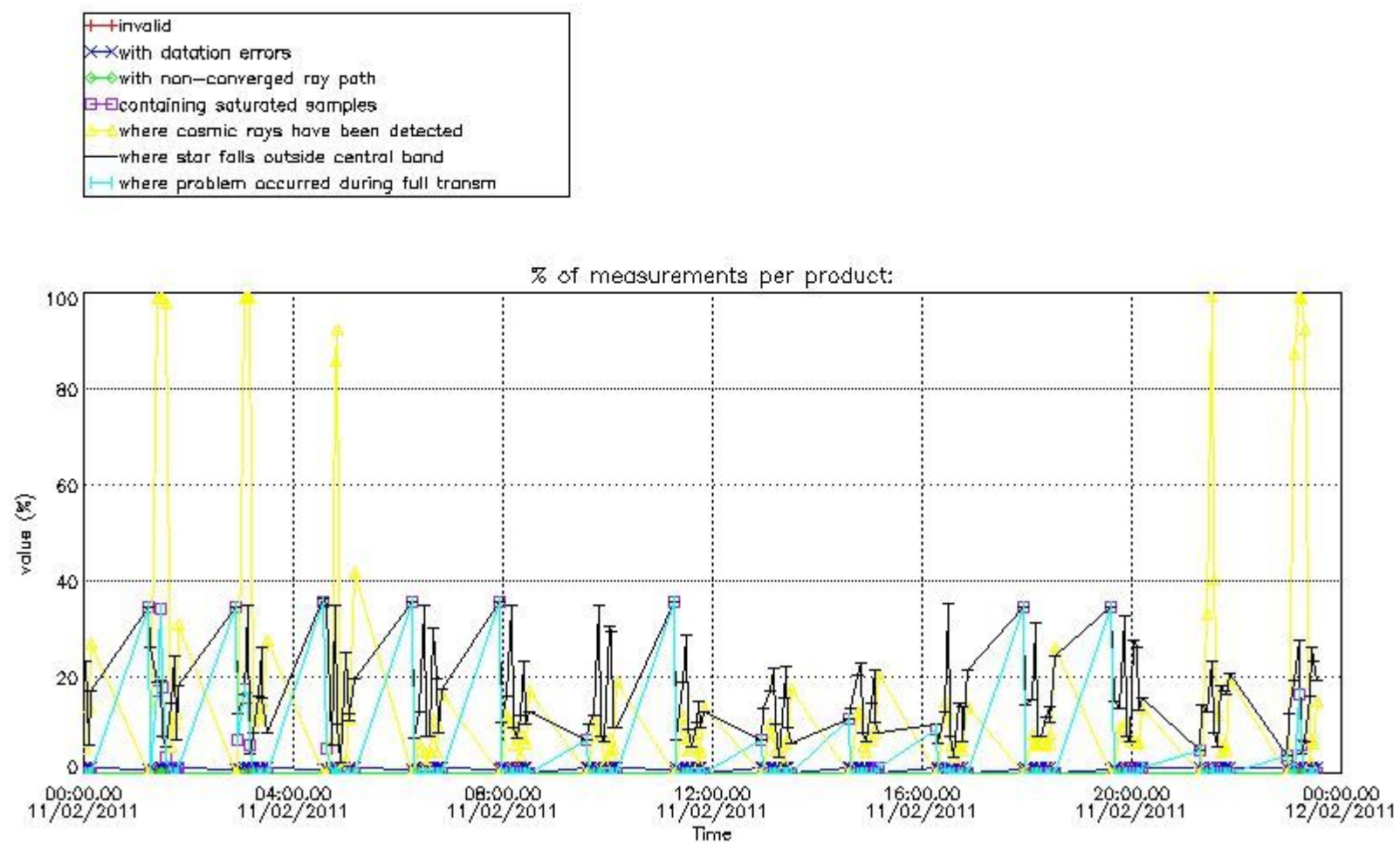


4. Level 1 quality information per product

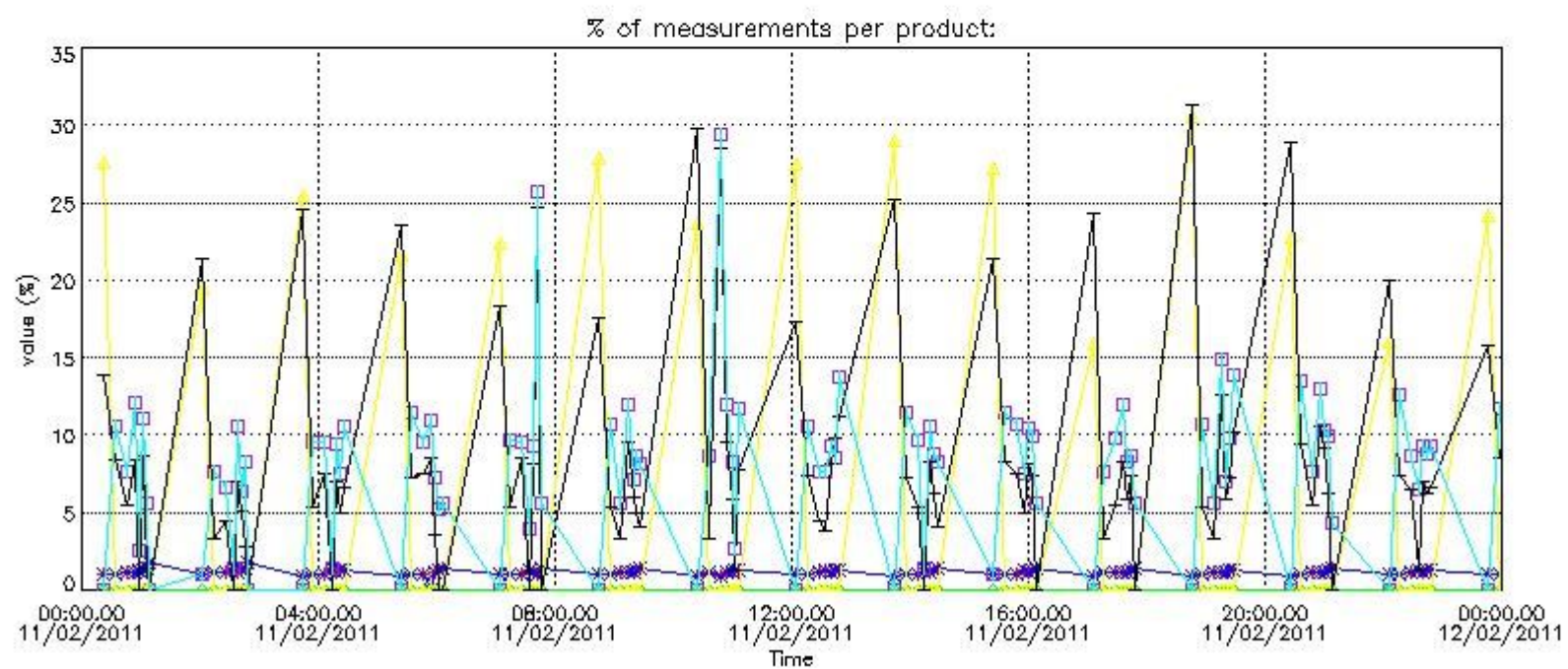
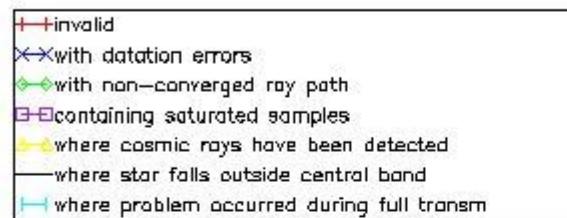
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

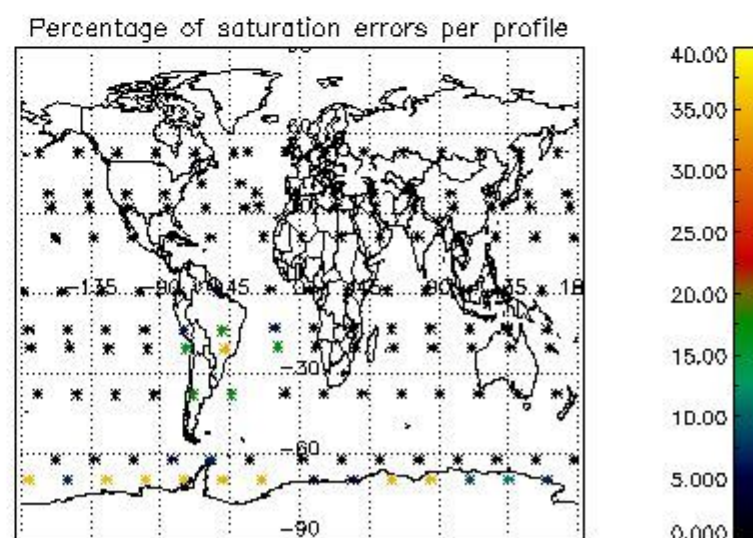
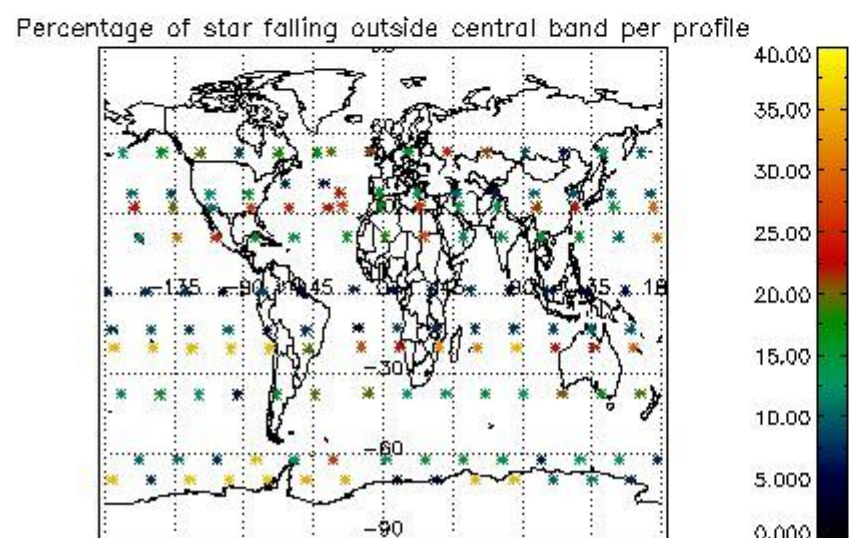
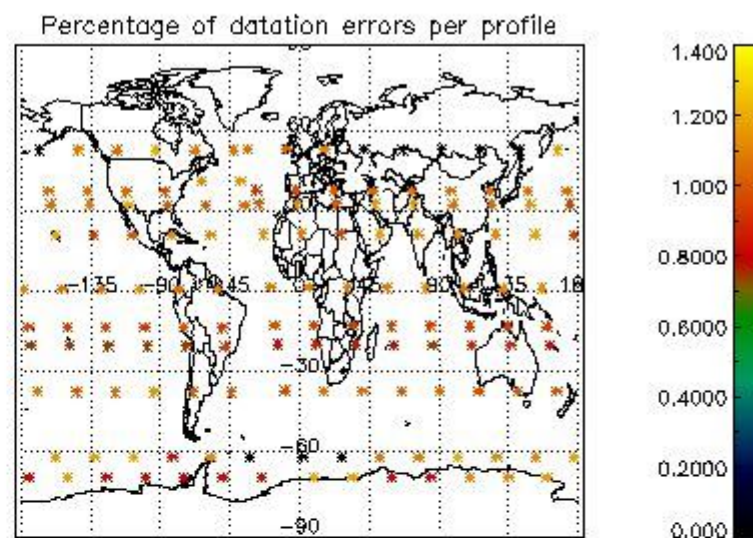
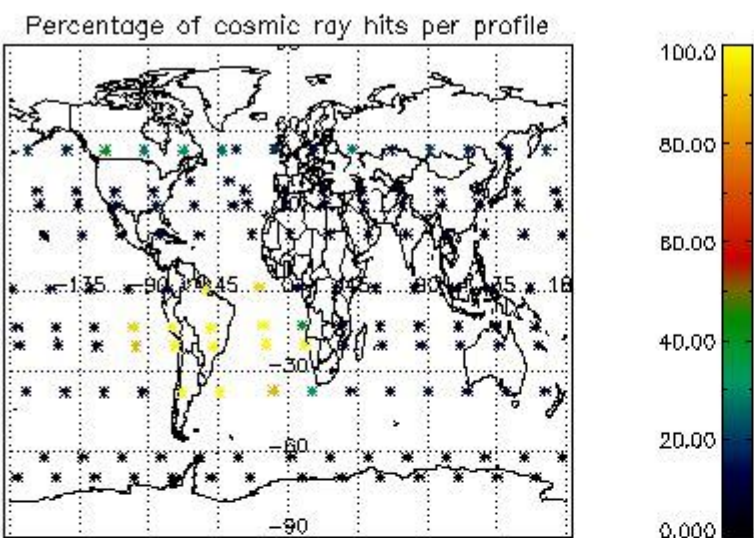


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

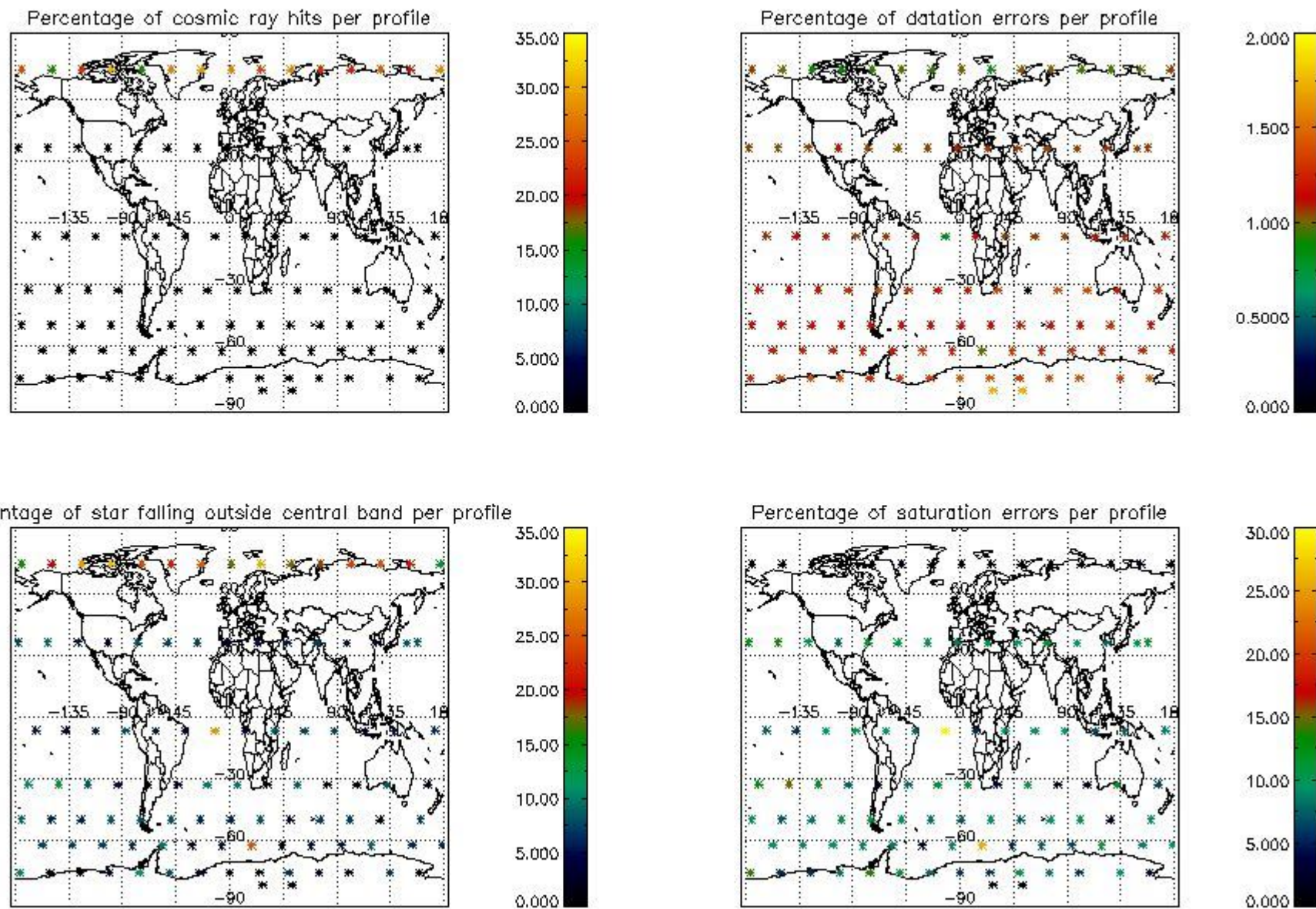


4.2 Plot quality information per product coming from level 1b processing (world map)

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

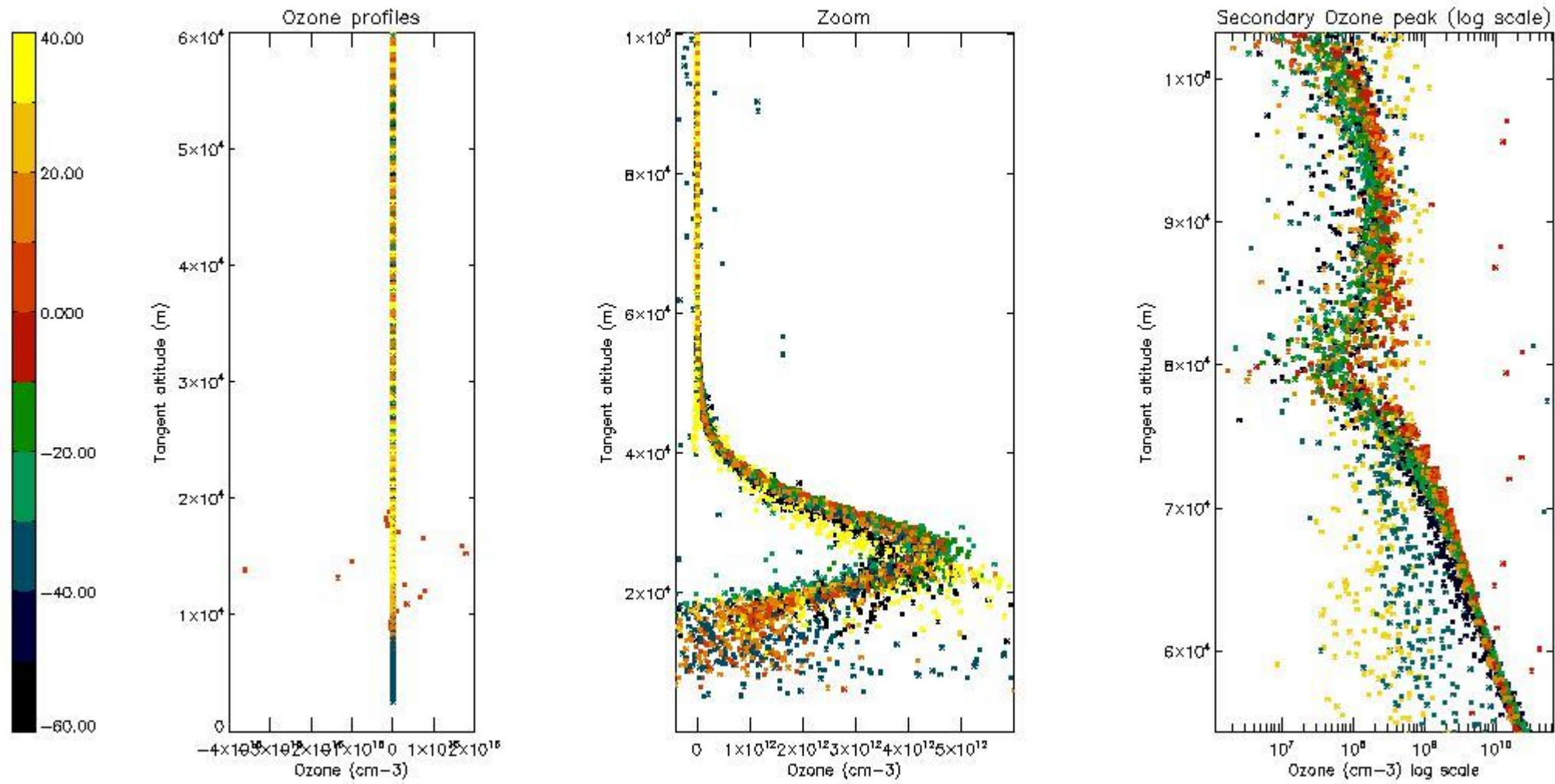
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	50
STD < 20	25

STD < 10	20
STD < 5	13

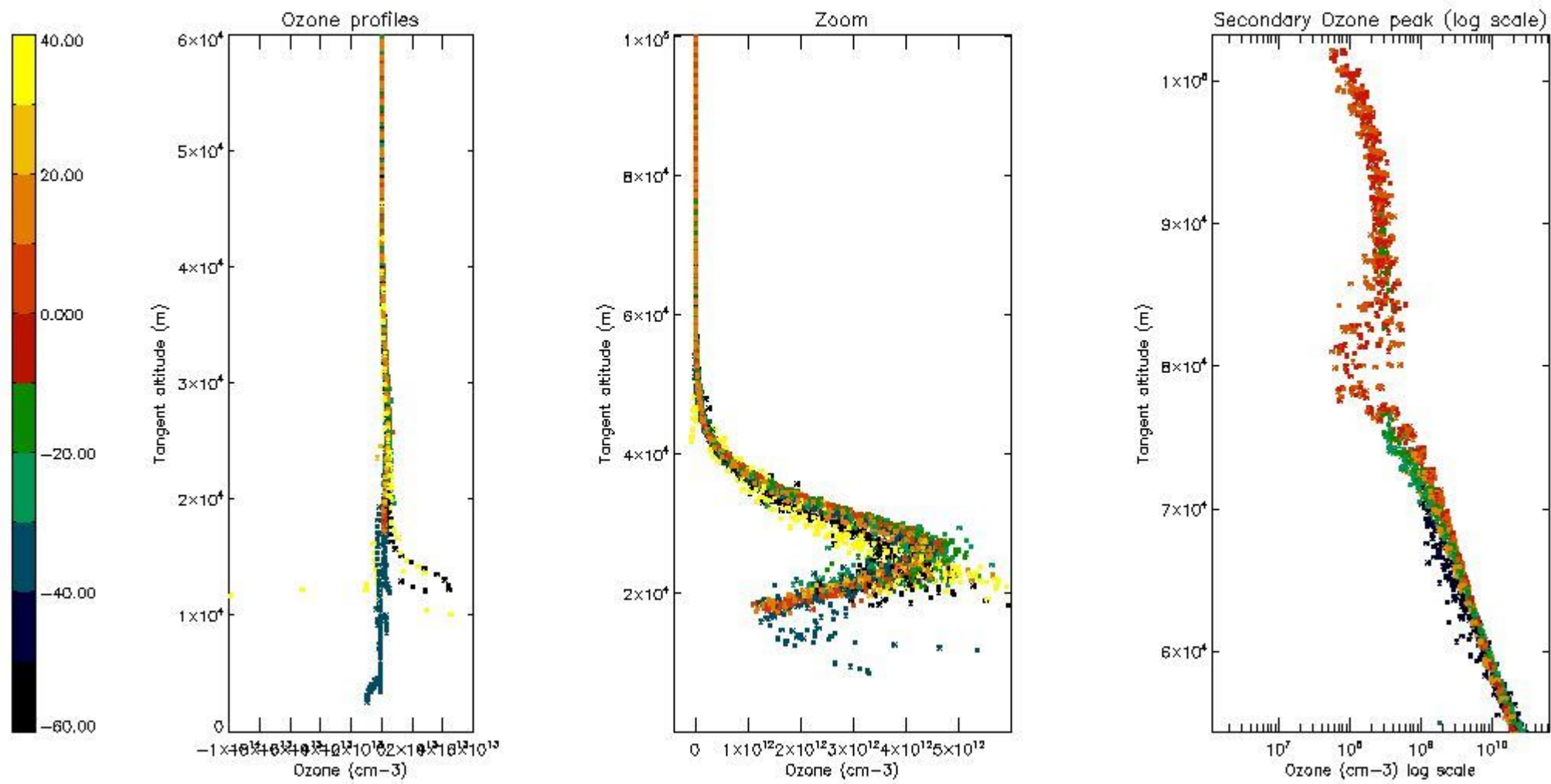
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



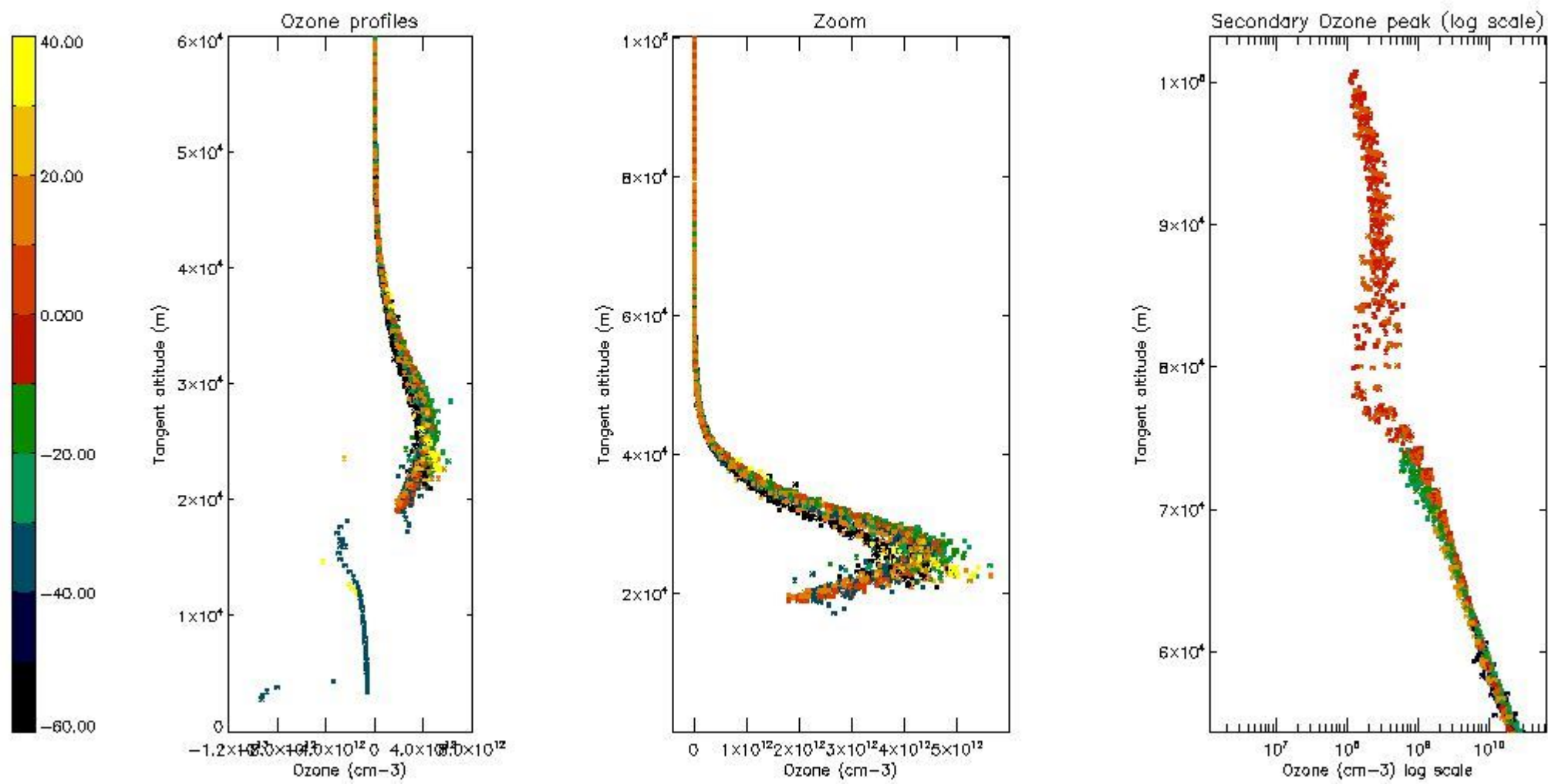
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



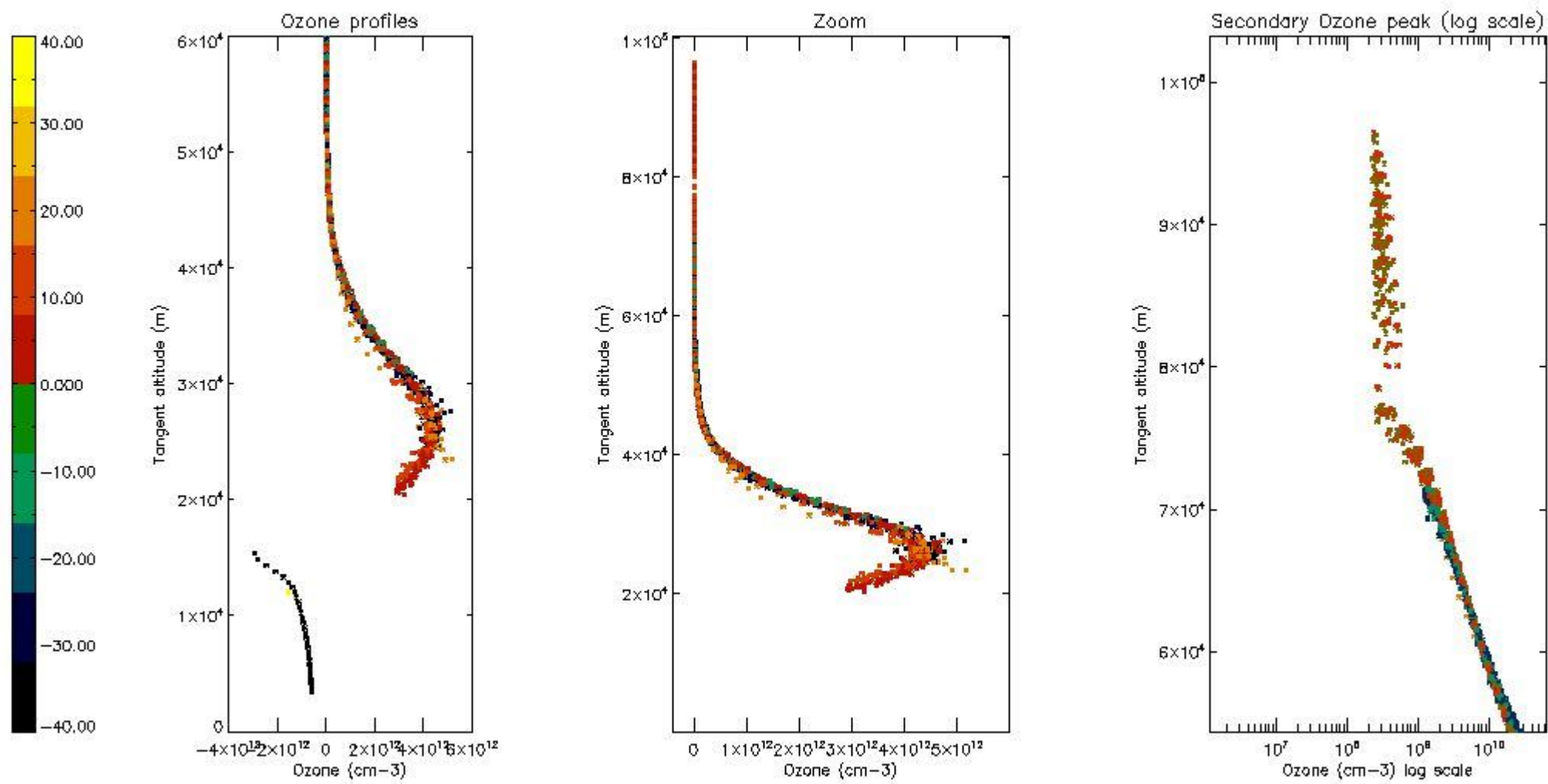
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



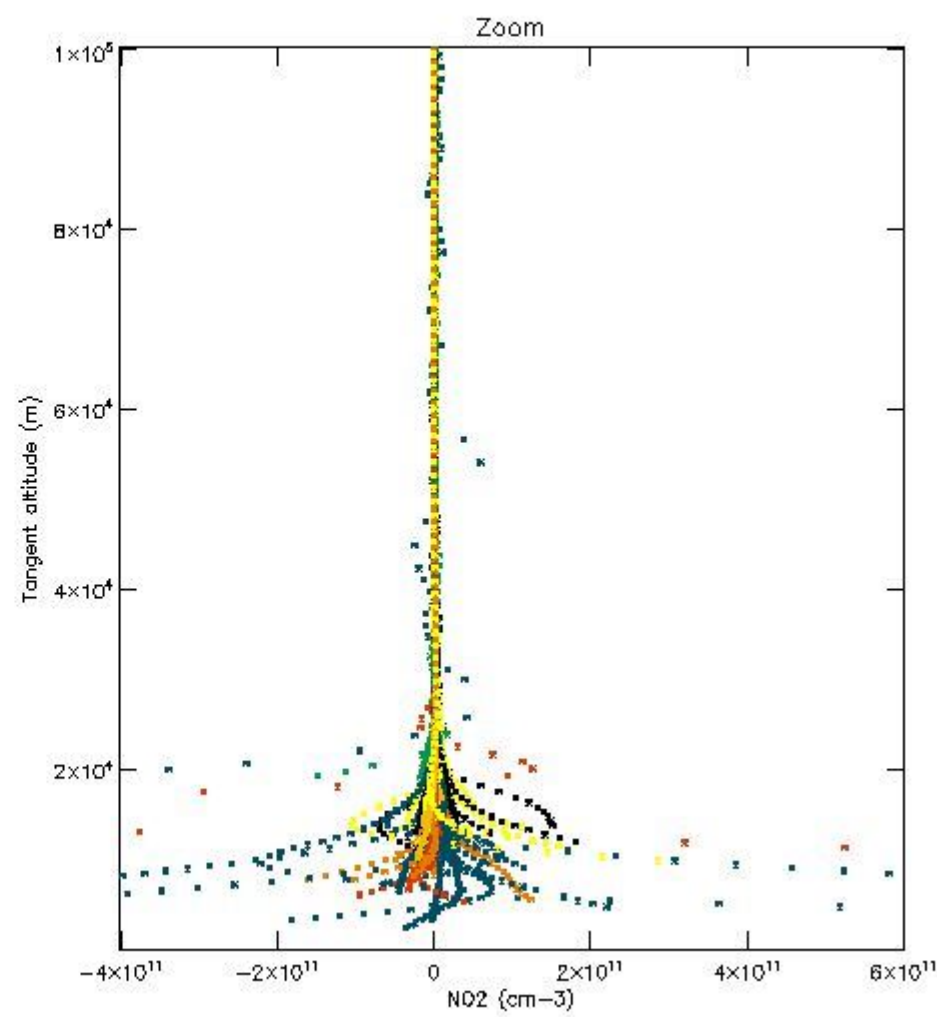
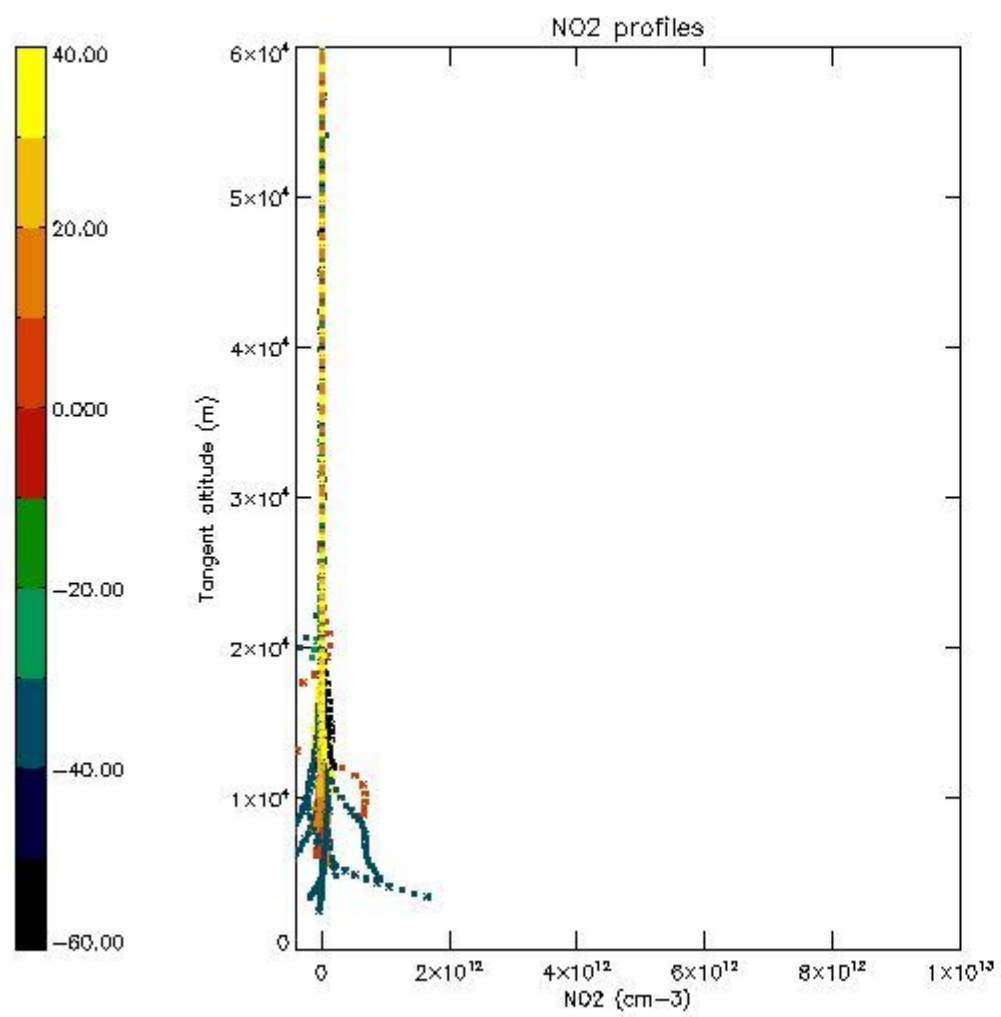
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



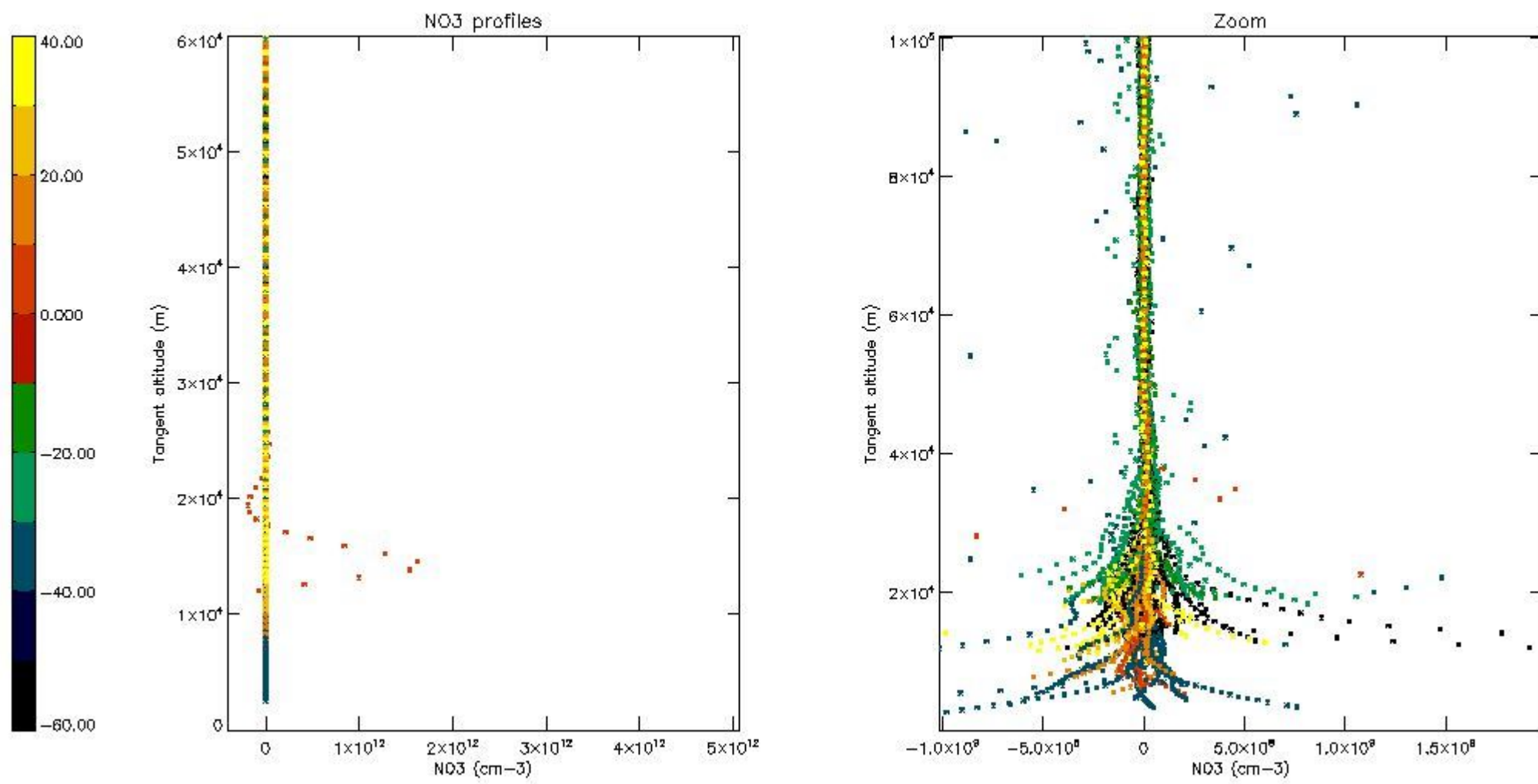
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



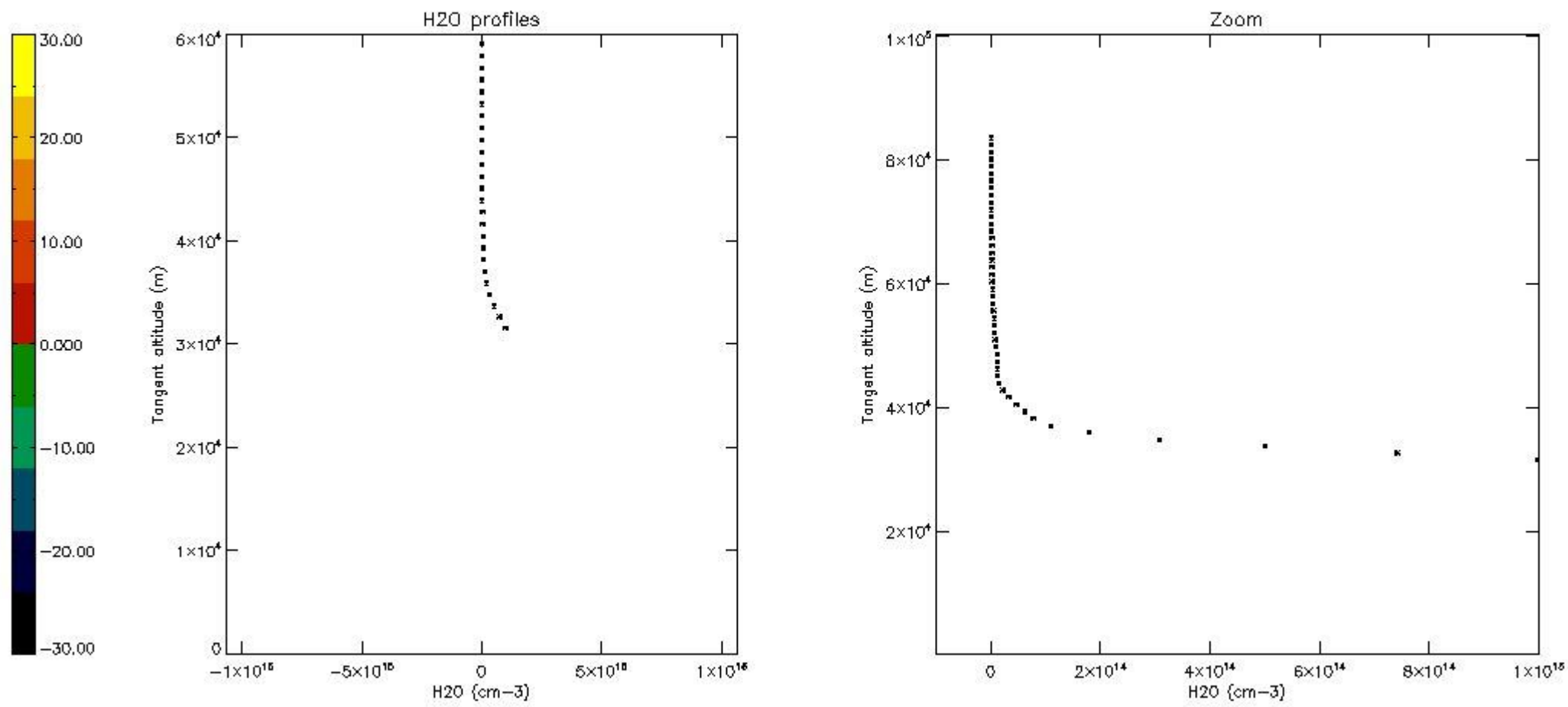
5.7 Plot NO3 profiles for all STD (dark without errors)

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	11-FEB-2011 00:02:54
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	11-FEB-2011 00:02:54
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	11-FEB-2011 00:02:54

GOMOS Level 2 Daily Report

SUMMARY

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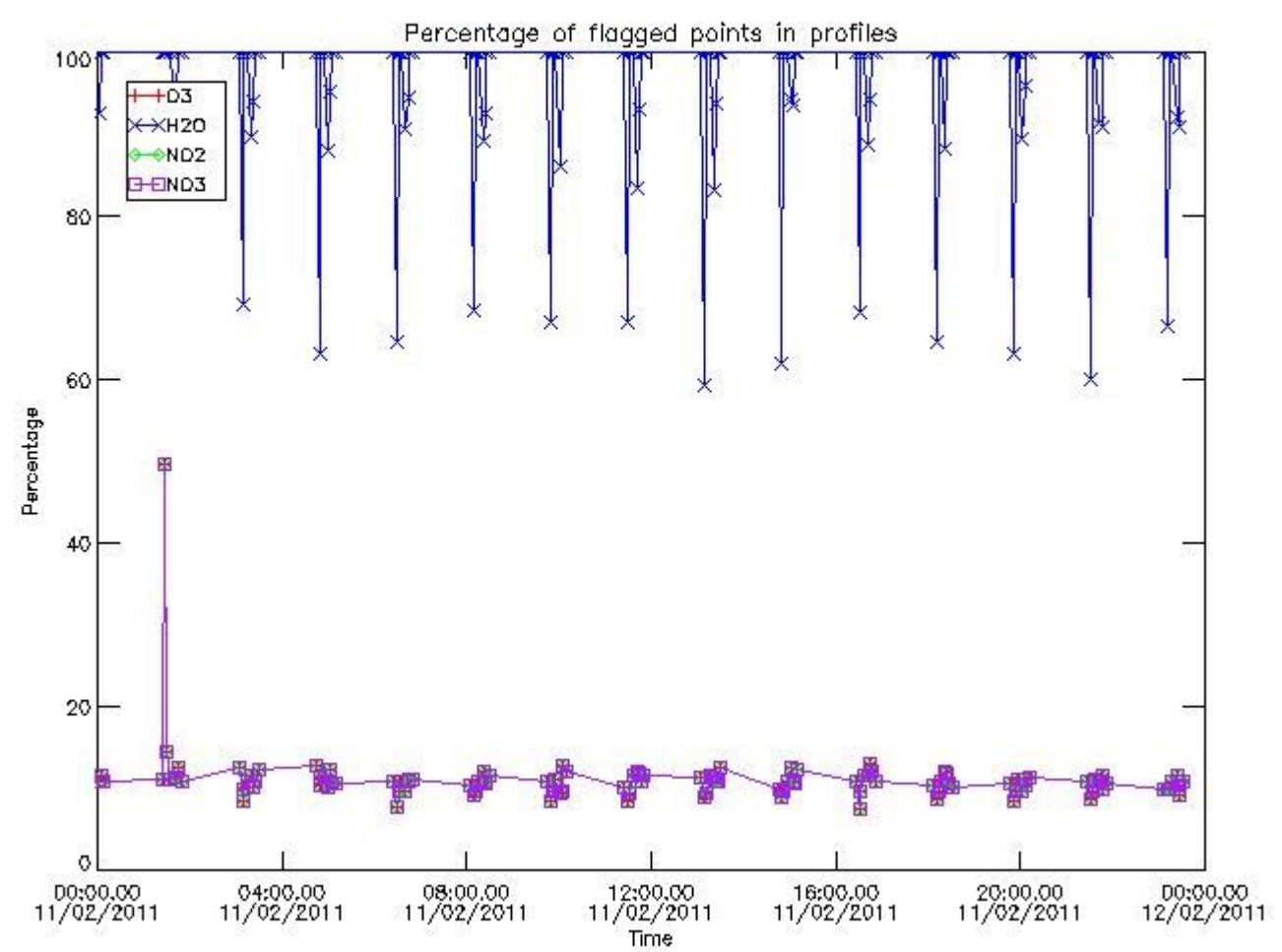
[6. Auxiliary Data Files used for the production reported in section 2](#)

220	GOM_NL__2PRFIN20110211_213121_000000583099_00244_46810_0212.N1	11-FEB-2011 21:31:21	Dark	58.000	16	21Alp Sco	1.0200	3000.0	116	46810	No
221	GOM_NL__2PRFIN20110211_213320_000000543099_00244_46810_0213.N1	11-FEB-2011 21:33:20	Dark	53.500	158	6Pi Sco	2.9060	28000.	107	46810	No
222	GOM_NL__2PRFIN20110211_213718_000000463099_00245_46811_0205.N1	11-FEB-2011 21:37:18	Dark	45.500	131	Gam Lup	2.8000	26000.	91	46811	No
223	GOM_NL__2PRFIN20110211_214253_000000473099_00245_46811_0206.N1	11-FEB-2011 21:42:53	Dark	46.500	10	Bet Cen	0.61000	28000.	93	46811	No
224	GOM_NL__2PRFIN20110211_214602_000000443099_00245_46811_0207.N1	11-FEB-2011 21:46:02	Dark	44.000	12	Alp1Cru	0.77500	30000.	88	46811	No
225	GOM_NL__2PRFIN20110211_214727_000000523099_00245_46811_0208.N1	11-FEB-2011 21:47:27	Dark	51.500	64	Gam Cen	2.2000	10600.	103	46811	No
226	GOM_NL__2PRFIN20110211_215148_000000483099_00245_46811_0209.N1	11-FEB-2011 21:51:48	Dark	48.000	113	Mu Vel	2.6920	5000.0	96	46811	No
227	GOM_NL__2PRFIN20110211_220542_000000503099_00245_46811_0210.N1	11-FEB-2011 22:05:42	Straylight	50.000	48	30Alp Hya	1.9770	4100.0	100	46811	No
228	GOM_NL__2PRFIN20110211_221648_000000483099_00245_46811_0211.N1	11-FEB-2011 22:16:48	Bright	47.500	166	17Eps Leo	2.9800	6000.0	95	46811	No
229	GOM_NL__2PRFIN20110211_222845_000000463099_00245_46811_0212.N1	11-FEB-2011 22:28:45	Bright	46.000	82	48Bet UMa	2.3650	10600.	92	46811	No
230	GOM_NL__2PRFIN20110211_223606_000000393099_00245_46811_0213.N1	11-FEB-2011 22:36:06	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	46811	No
231	GOM_NL__2PRFIN20110211_224056_000000433099_00245_46811_0214.N1	11-FEB-2011 22:40:56	Bright	43.000	119	14Eta Dra	2.7270	4700.0	86	46811	No
232	GOM_NL__2PRFIN20110211_224433_000000403099_00245_46811_0215.N1	11-FEB-2011 22:44:33	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	46811	No
233	GOM_NL__2PRFIN20110211_224838_000000383099_00245_46811_0216.N1	11-FEB-2011 22:48:38	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	46811	No
234	GOM_NL__2PRFIN20110211_225725_000000423099_00245_46811_0217.N1	11-FEB-2011 22:57:25	Bright	42.000	59	55Alp Oph	2.0800	8900.0	84	46811	No
235	GOM_NL__2PRFIN20110211_225939_000000453099_00245_46811_0218.N1	11-FEB-2011 22:59:39	Bright	44.500	126	60Bet Oph	2.7700	4250.0	89	46811	No
236	GOM_NL__2PRFIN20110211_230644_000000523099_00245_46811_0219.N1	11-FEB-2011 23:06:44	Dark	51.500	86	35Eta Oph	2.4300	10200.	103	46811	No
237	GOM_NL__2PRFIN20110211_231136_000000623099_00245_46811_0220.N1	11-FEB-2011 23:11:36	Dark	61.500	16	21Alp Sco	1.0200	3000.0	123	46811	No
238	GOM_NL__2PRFIN20110211_231336_000000513099_00245_46811_0221.N1	11-FEB-2011 23:13:36	Dark	51.000	158	6Pi Sco	2.9060	28000.	102	46811	No
239	GOM_NL__2PRFIN20110211_231732_000000473099_00246_46812_0214.N1	11-FEB-2011 23:17:32	Dark	46.500	131	Gam Lup	2.8000	26000.	93	46812	No
240	GOM_NL__2PRFIN20110211_232308_000000443099_00246_46812_0215.N1	11-FEB-2011 23:23:08	Dark	44.000	10	Bet Cen	0.61000	28000.	88	46812	No
241	GOM_NL__2PRFIN20110211_232617_000000503099_00246_46812_0216.N1	11-FEB-2011 23:26:17	Dark	49.500	12	Alp1Cru	0.77500	30000.	99	46812	No
242	GOM_NL__2PRFIN20110211_232742_000000563099_00246_46812_0217.N1	11-FEB-2011 23:27:42	Dark	55.500	64	Gam Cen	2.2000	10600.	111	46812	No
243	GOM_NL__2PRFIN20110211_233202_000000473099_00246_46812_0218.N1	11-FEB-2011 23:32:02	Dark	47.000	113	Mu Vel	2.6920	5000.0	94	46812	No
244	GOM_NL__2PRFIN20110211_234556_000000483099_00246_46812_0219.N1	11-FEB-2011 23:45:56	Straylight	47.500	48	30Alp Hya	1.9770	4100.0	95	46812	No
245	GOM_NL__2PRFIN20110211_235701_000000473099_00246_46812_0220.N1	11-FEB-2011 23:57:01	Bright	47.000	166	17Eps Leo	2.9800	6000.0	94	46812	No

3. Quality information per product

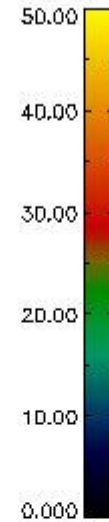
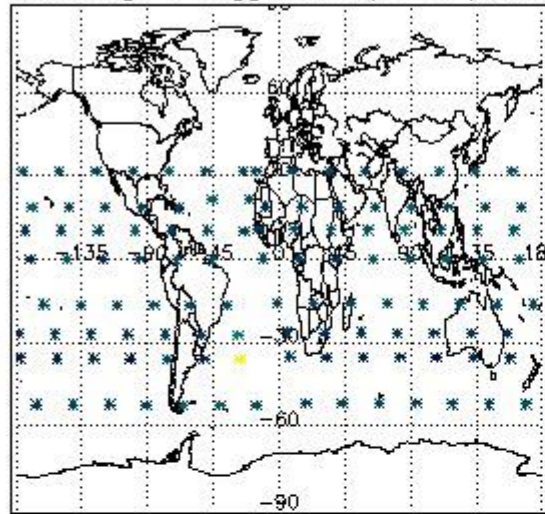
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

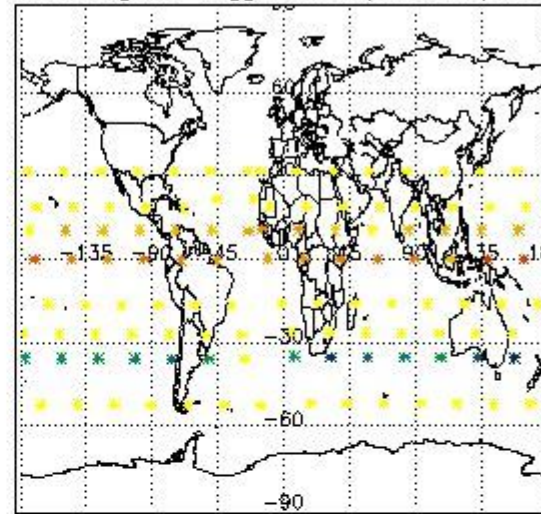


3.2 Plot quality information per product (world map)

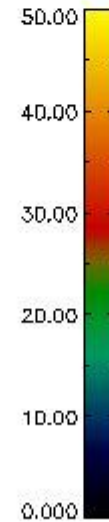
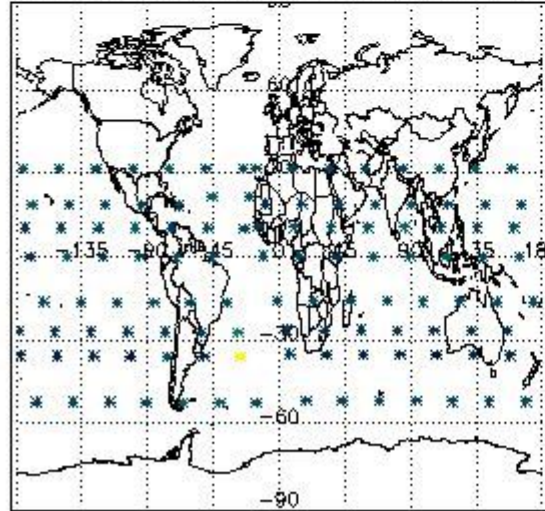
Percentage of flagged data per O3 profile



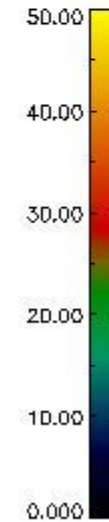
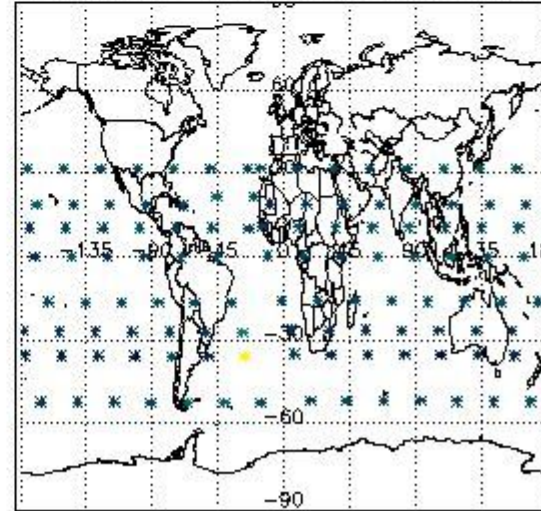
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

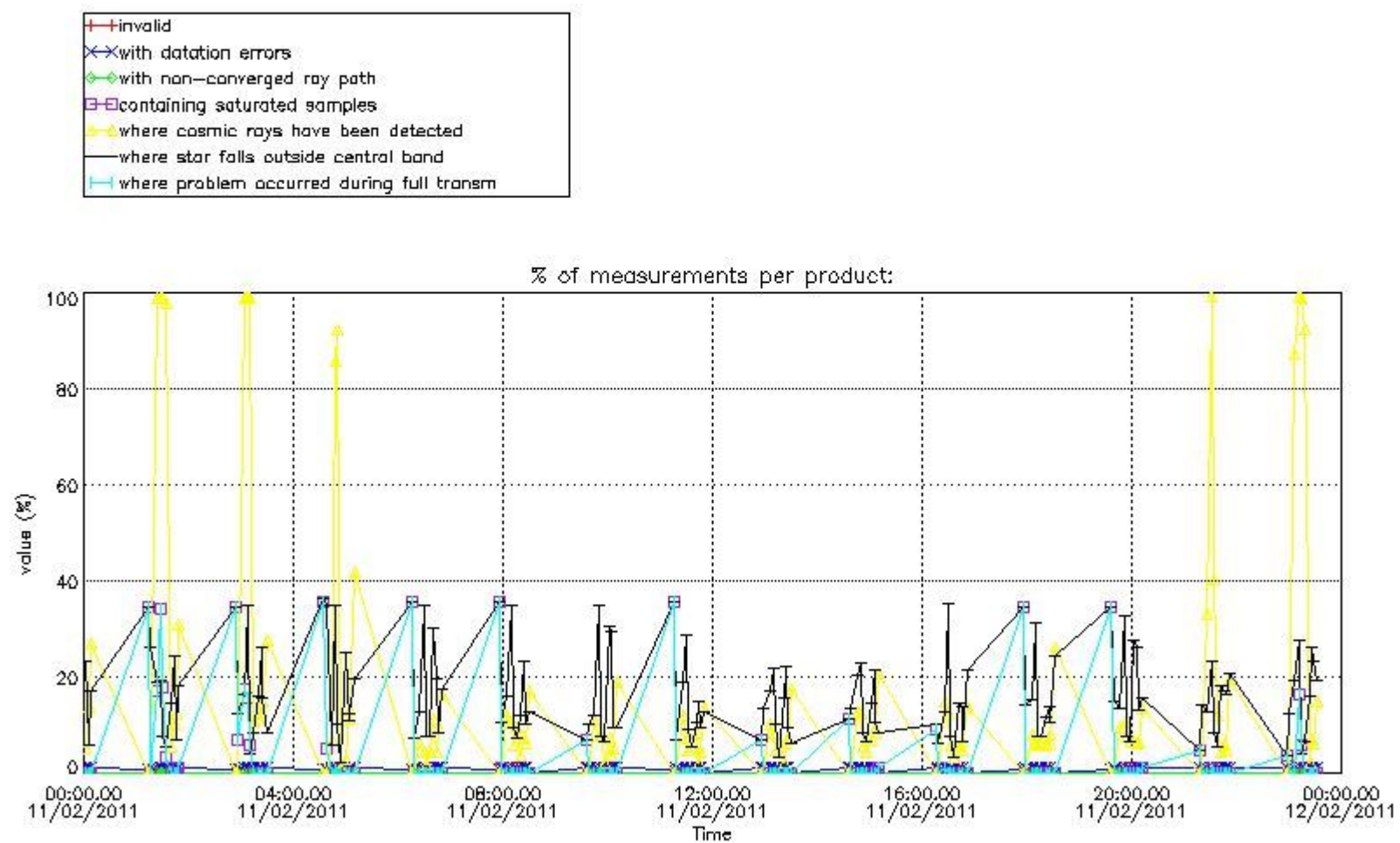


4. Level 1 quality information per product

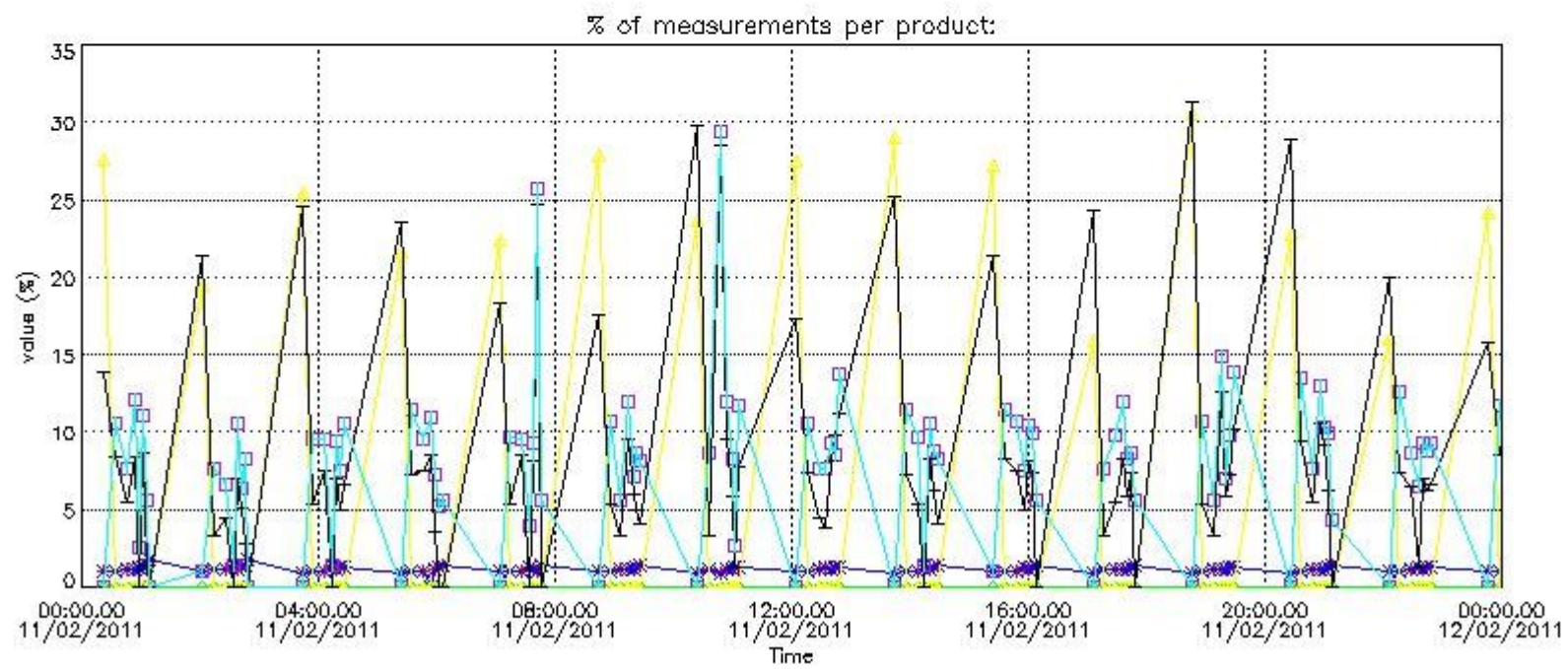
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

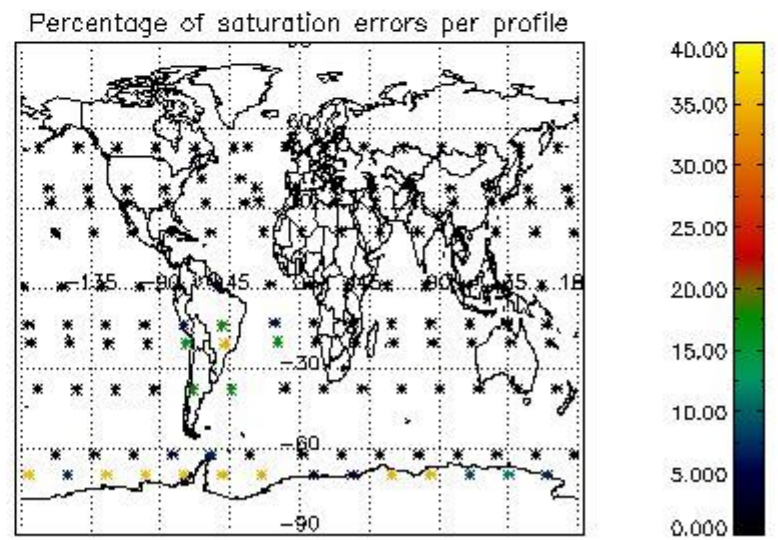
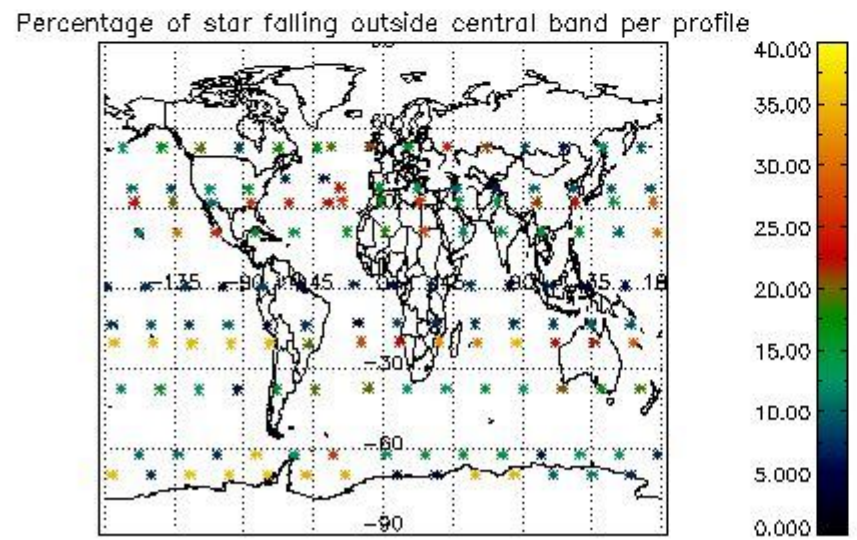
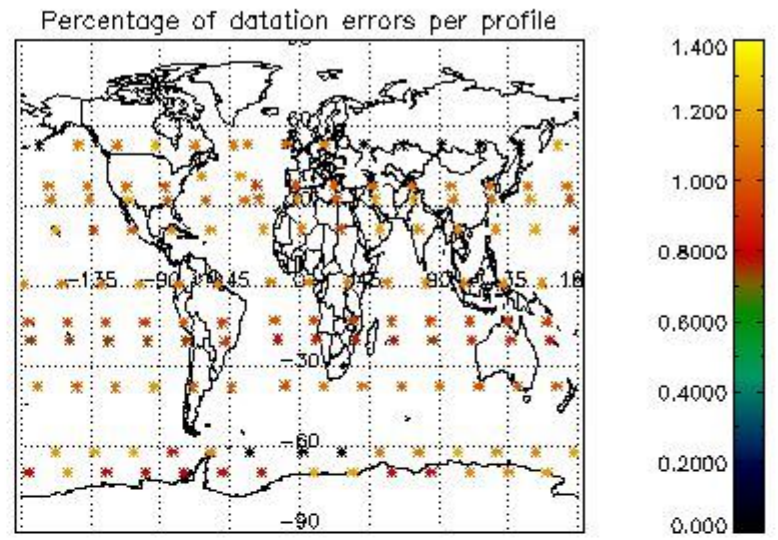
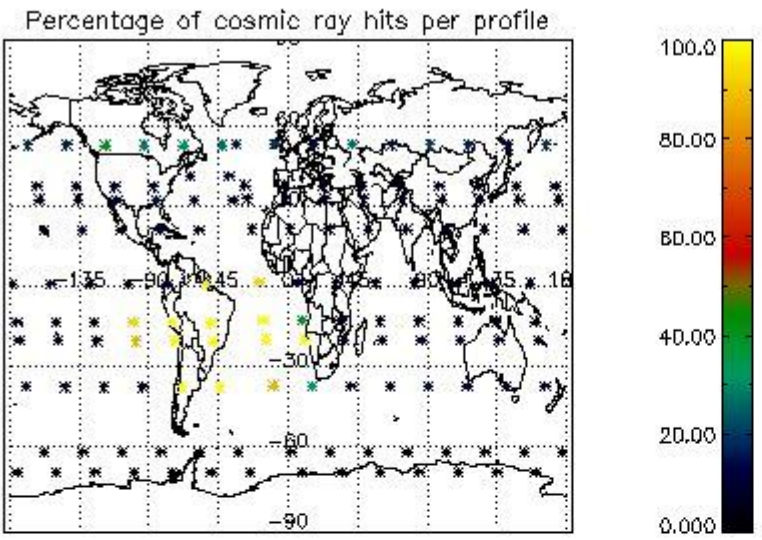


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



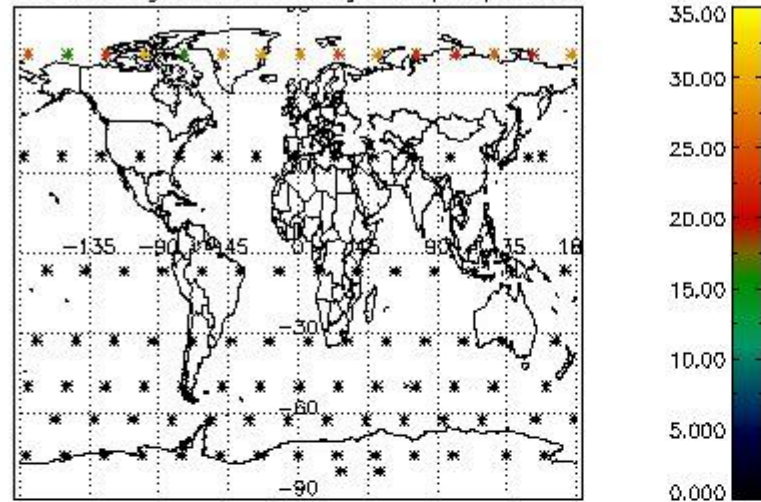
4.2 Plot quality information per product coming from level 1b processing (world map)

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

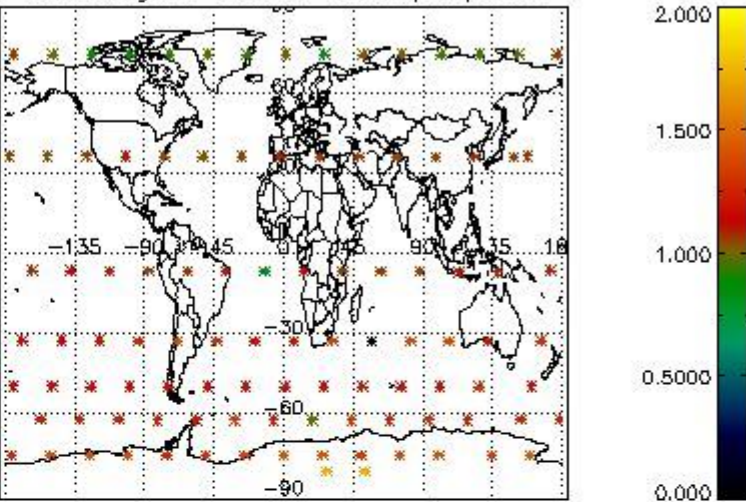


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

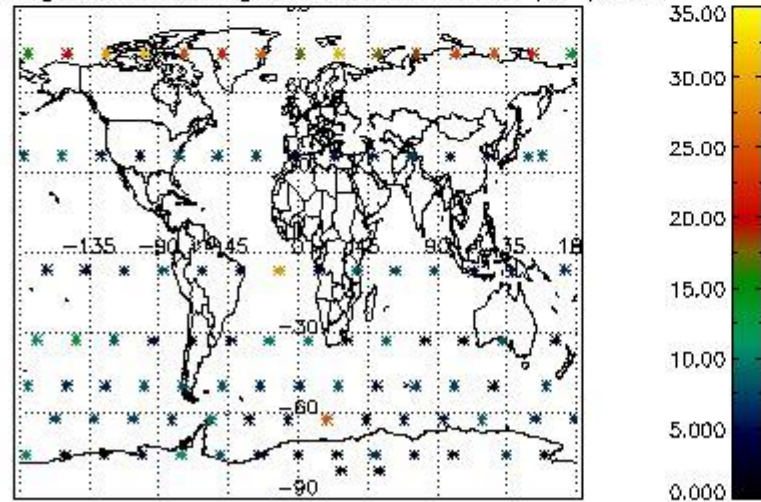
Percentage of cosmic ray hits per profile



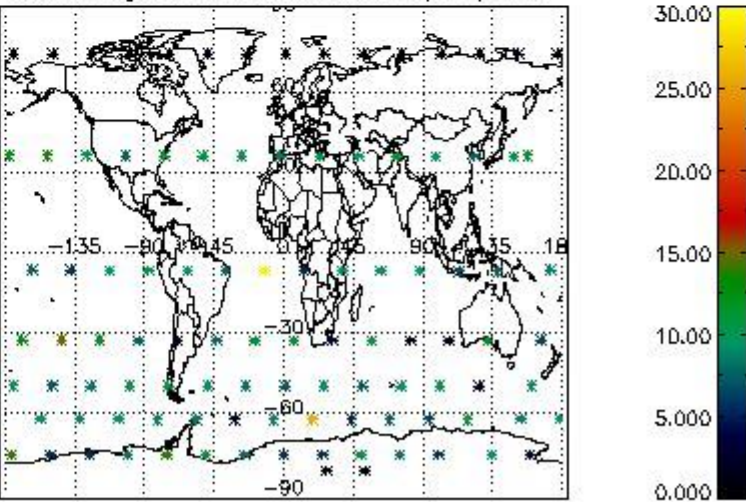
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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

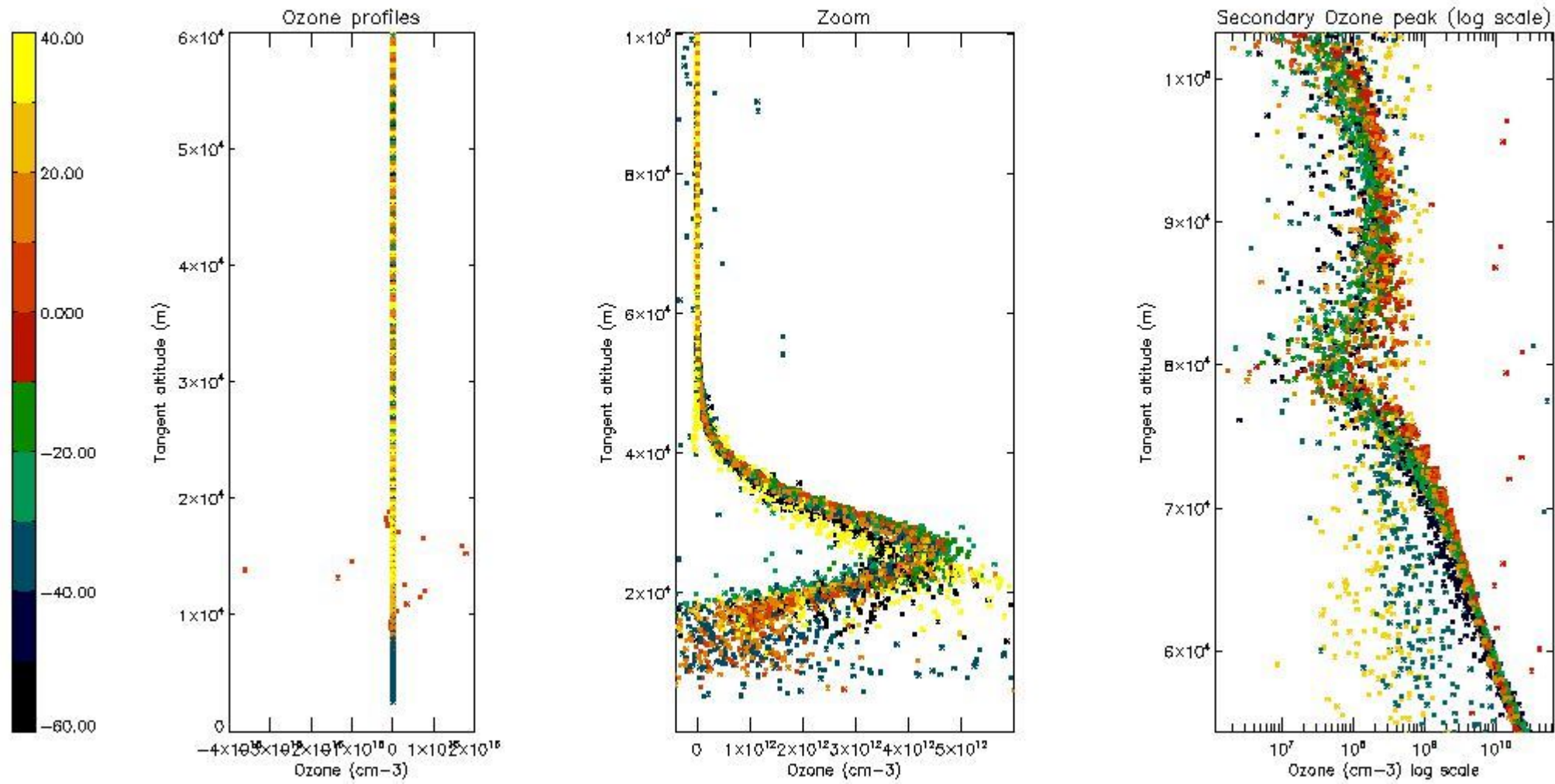
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	50
STD < 20	25

STD < 10	20
STD < 5	13

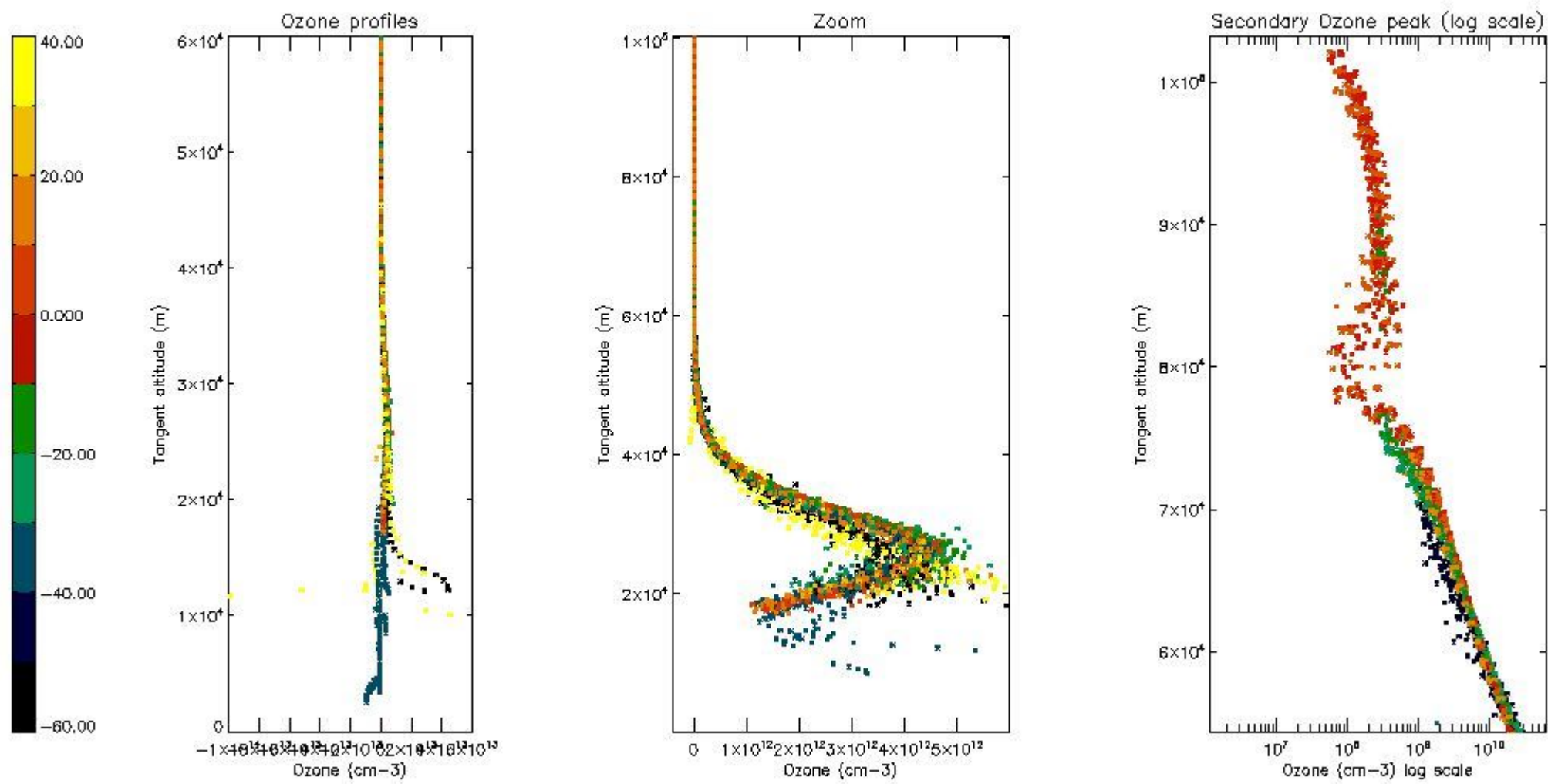
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



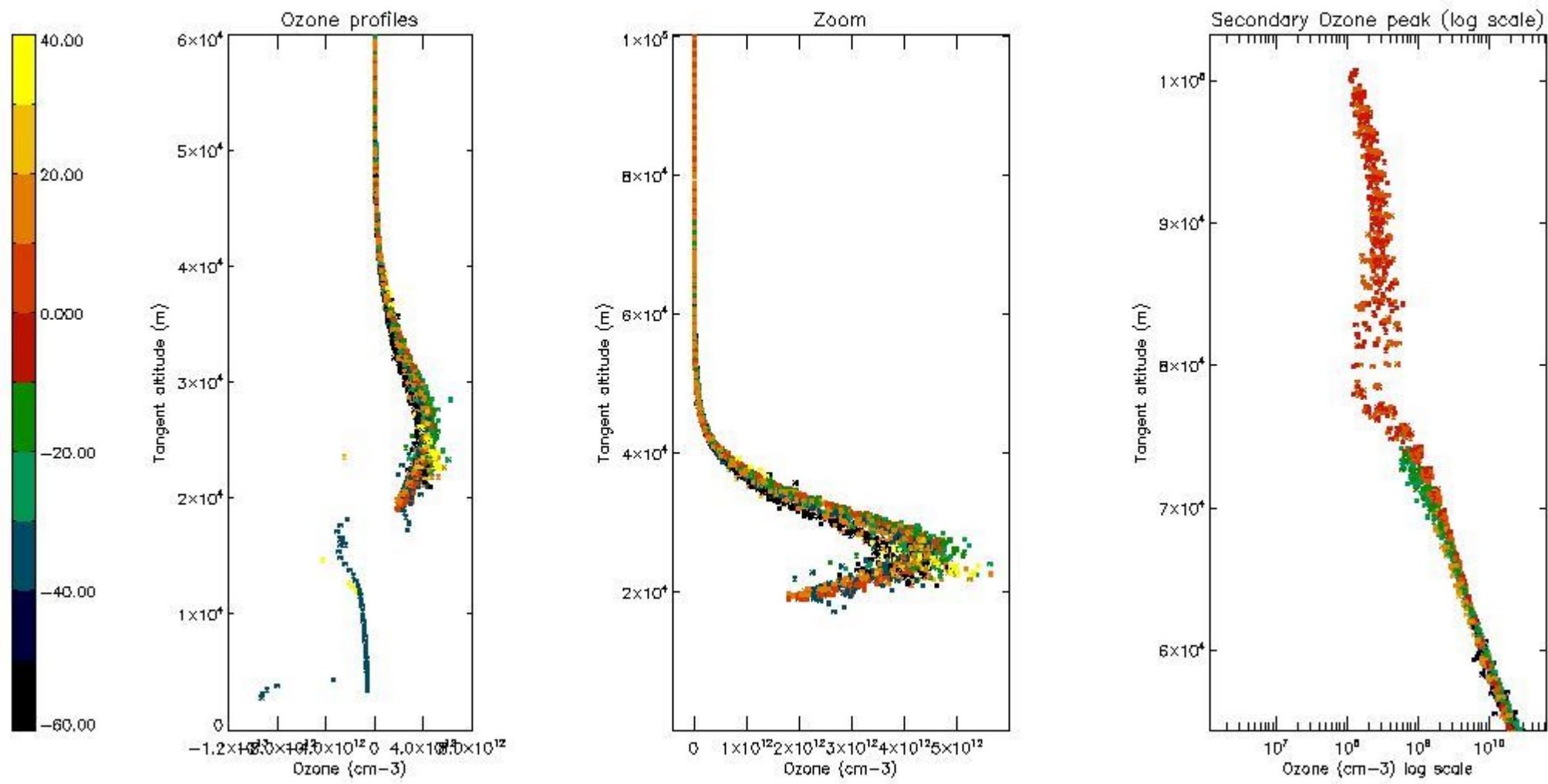
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



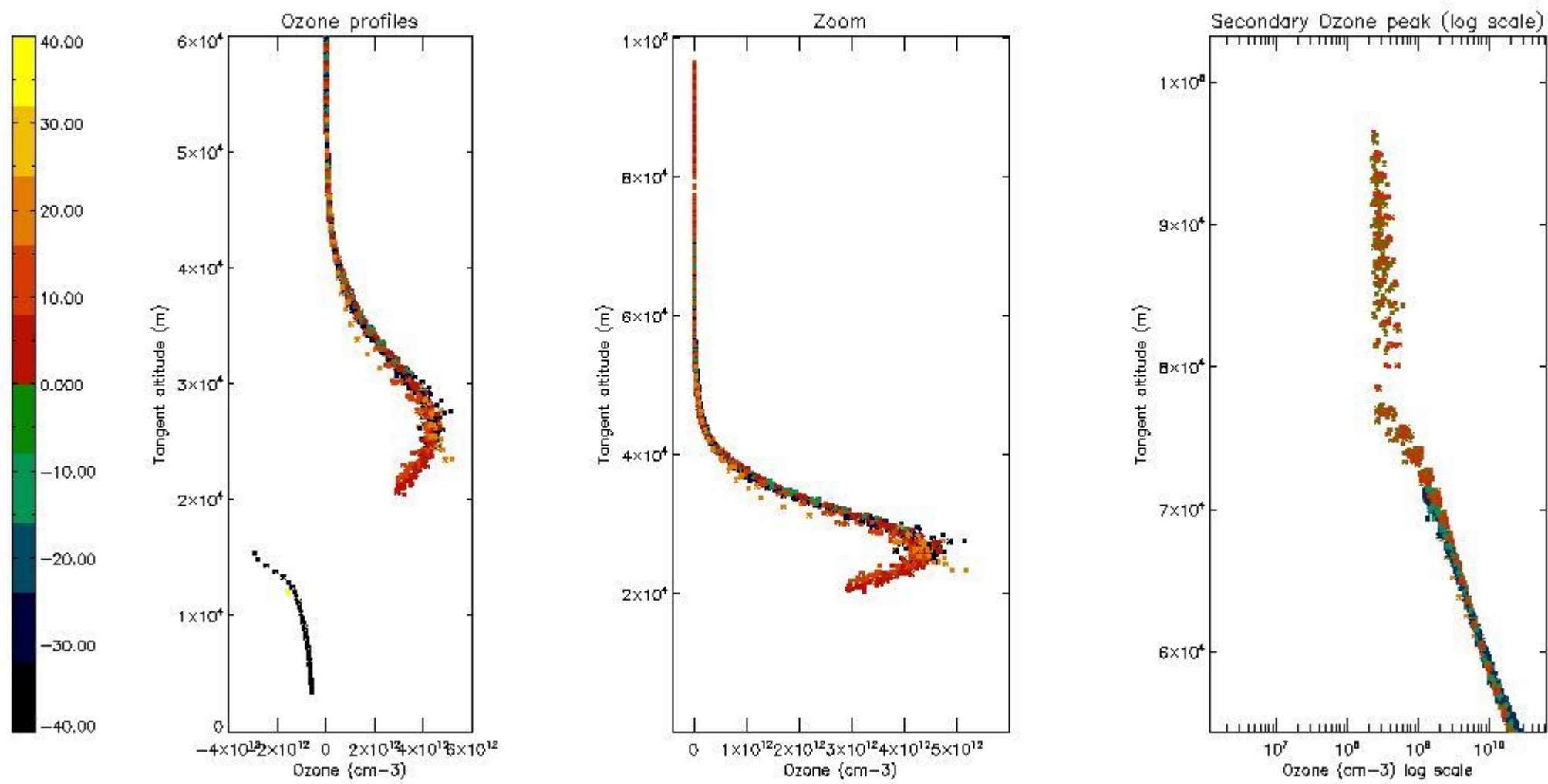
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



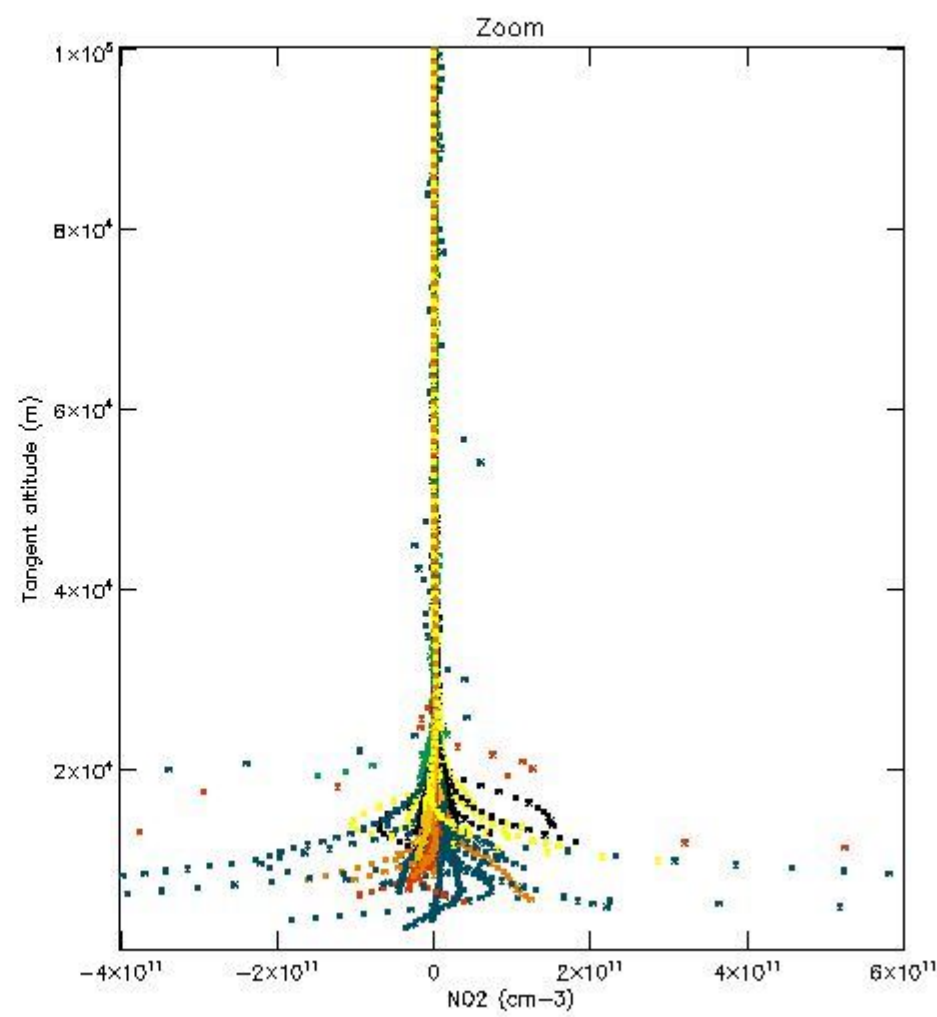
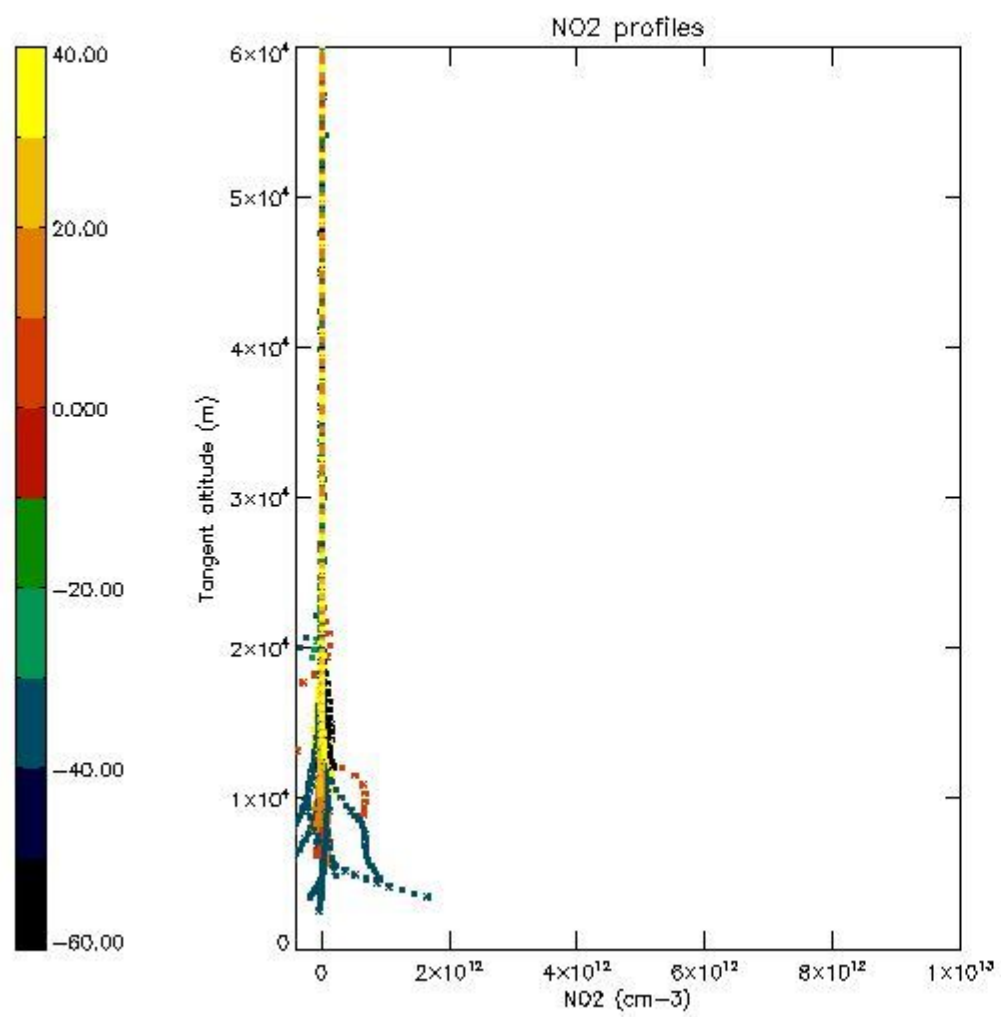
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



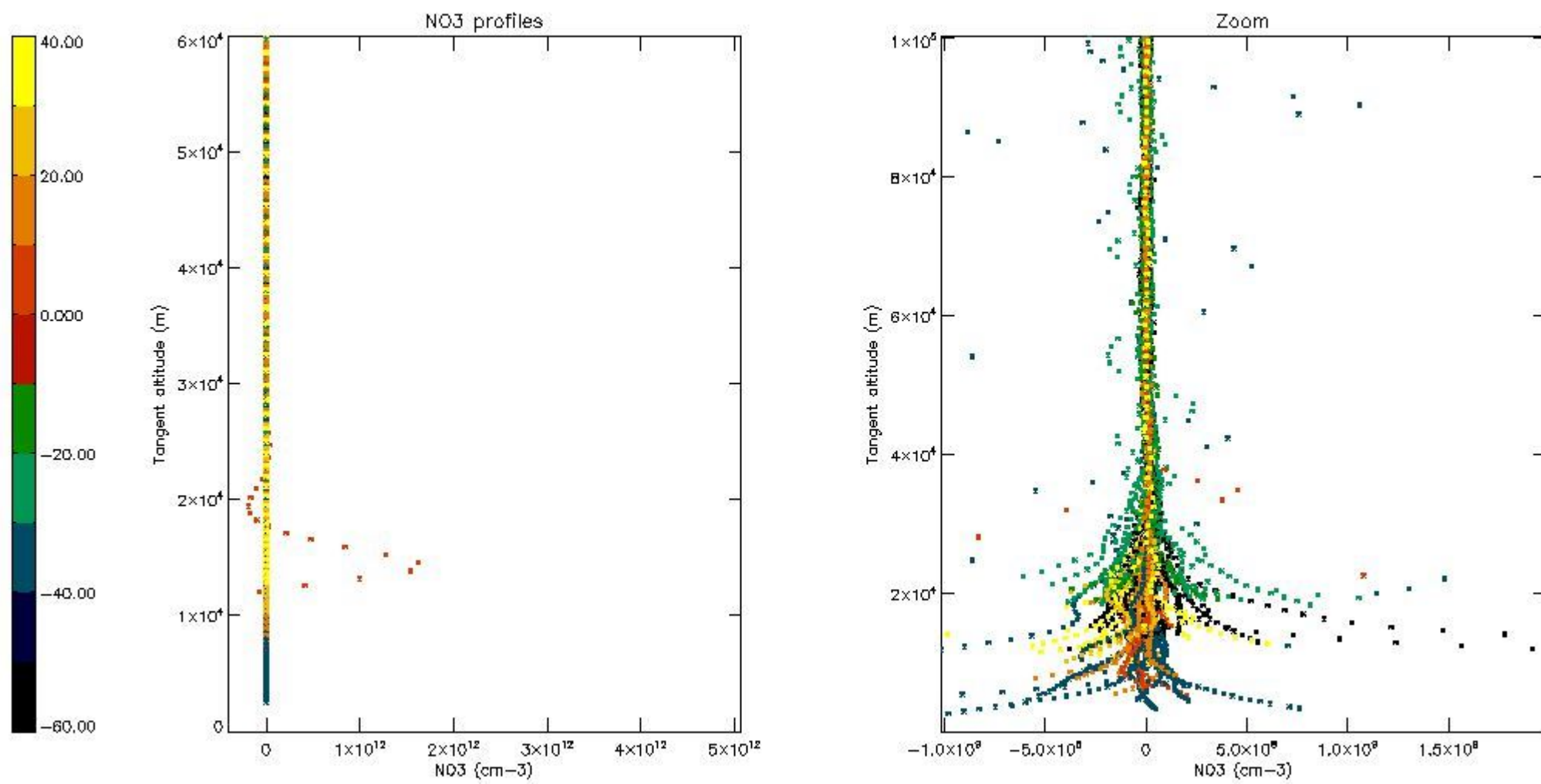
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



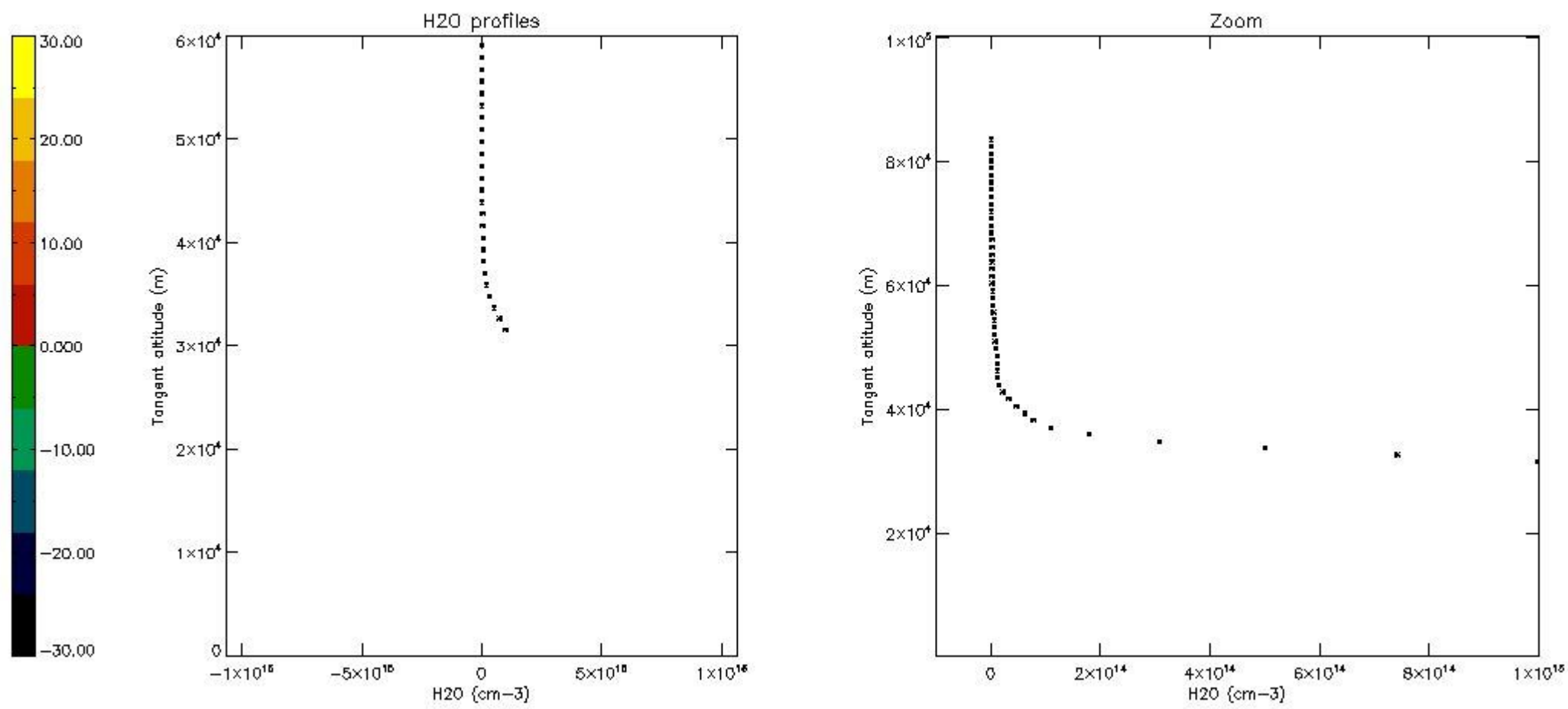
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

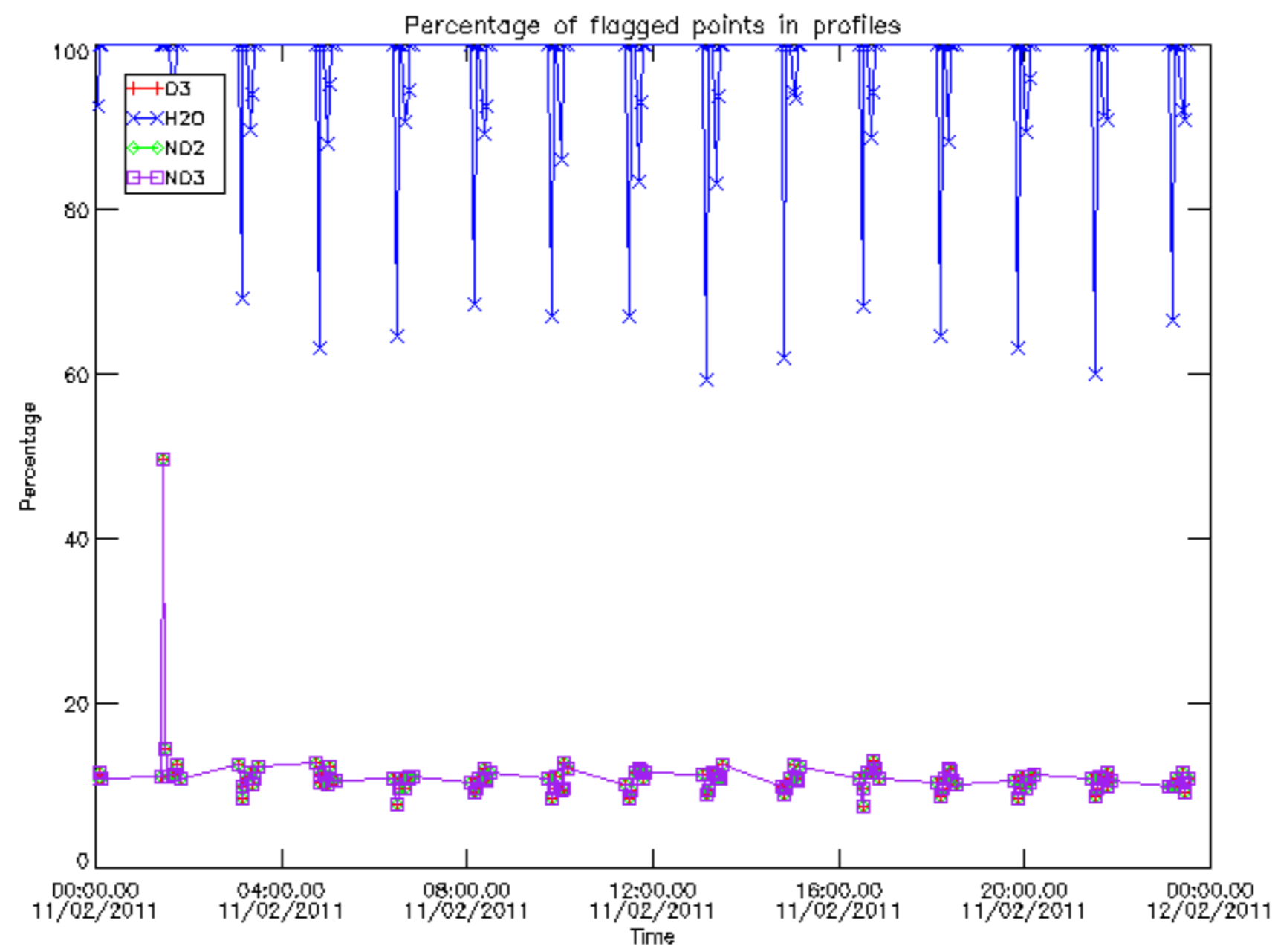
The colorbar represents the latitude.



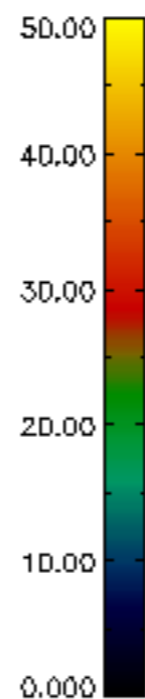
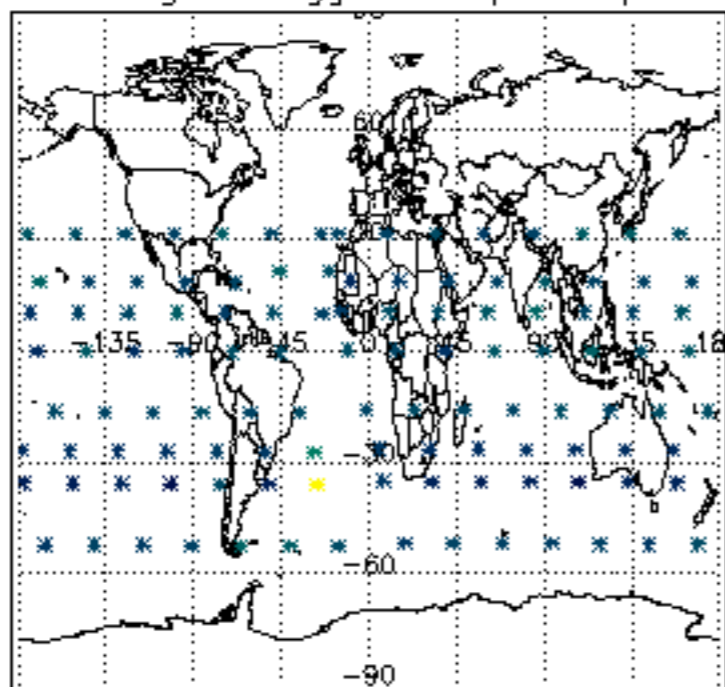
6. Auxiliary Data Files used for the production reported in section 2

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.

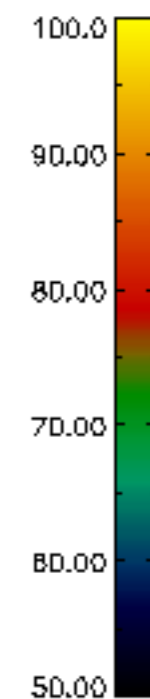
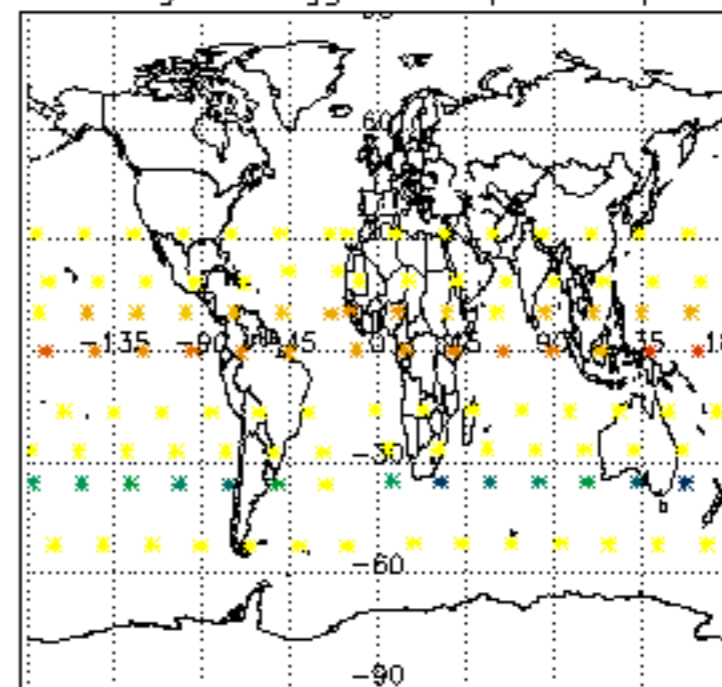
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	11-FEB-2011 00:02:54
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	11-FEB-2011 00:02:54
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	11-FEB-2011 00:02:54



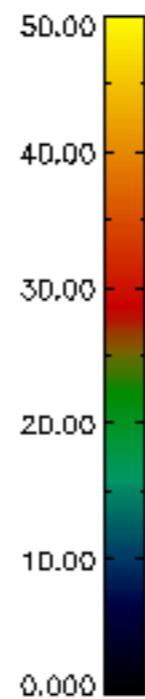
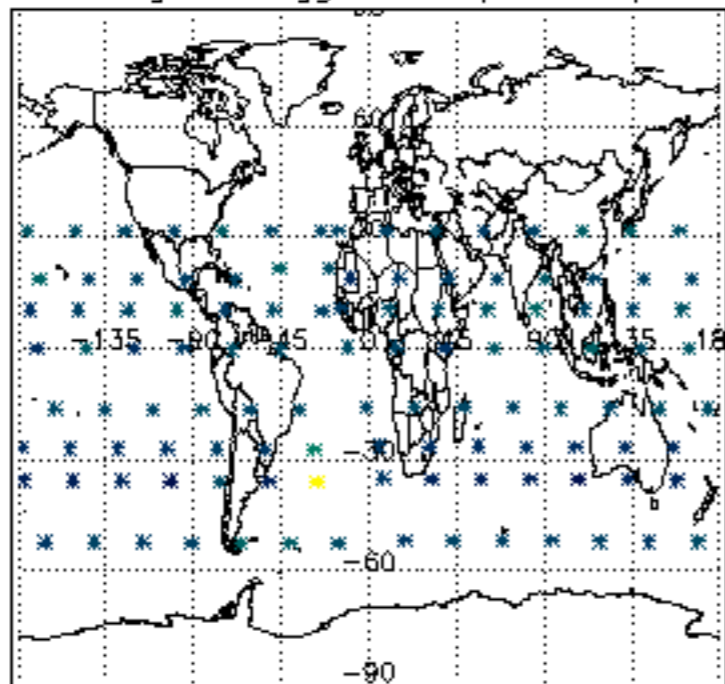
Percentage of flagged data per D3 profile



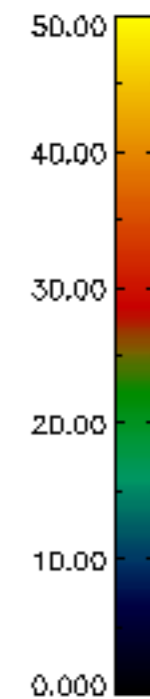
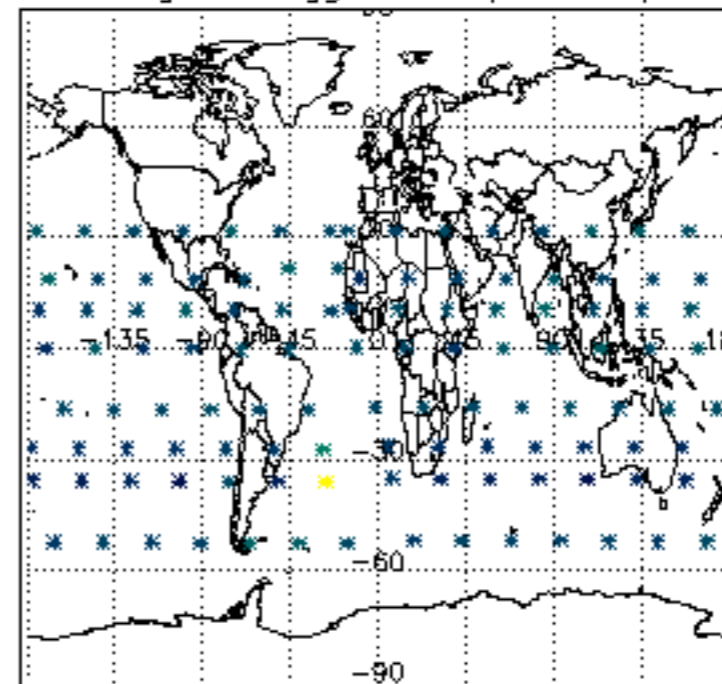
Percentage of flagged data per H2O profile

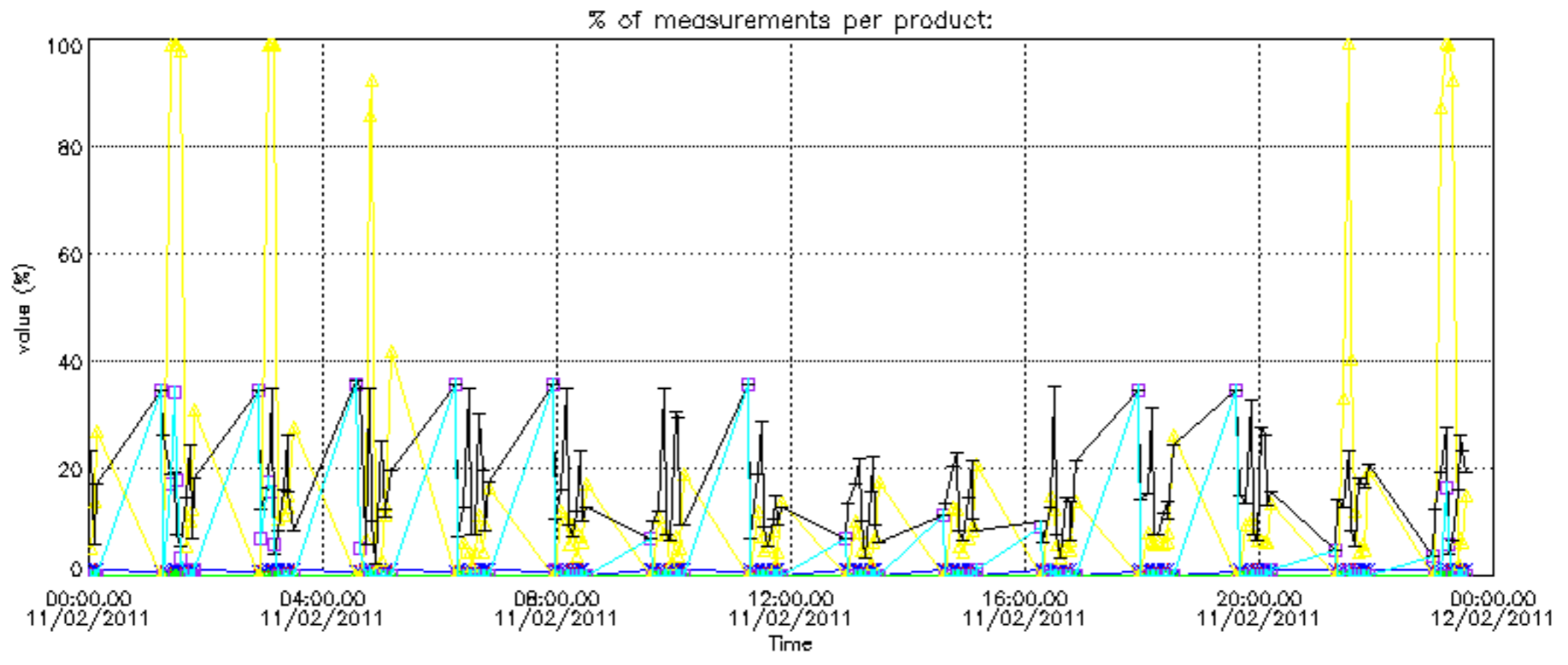


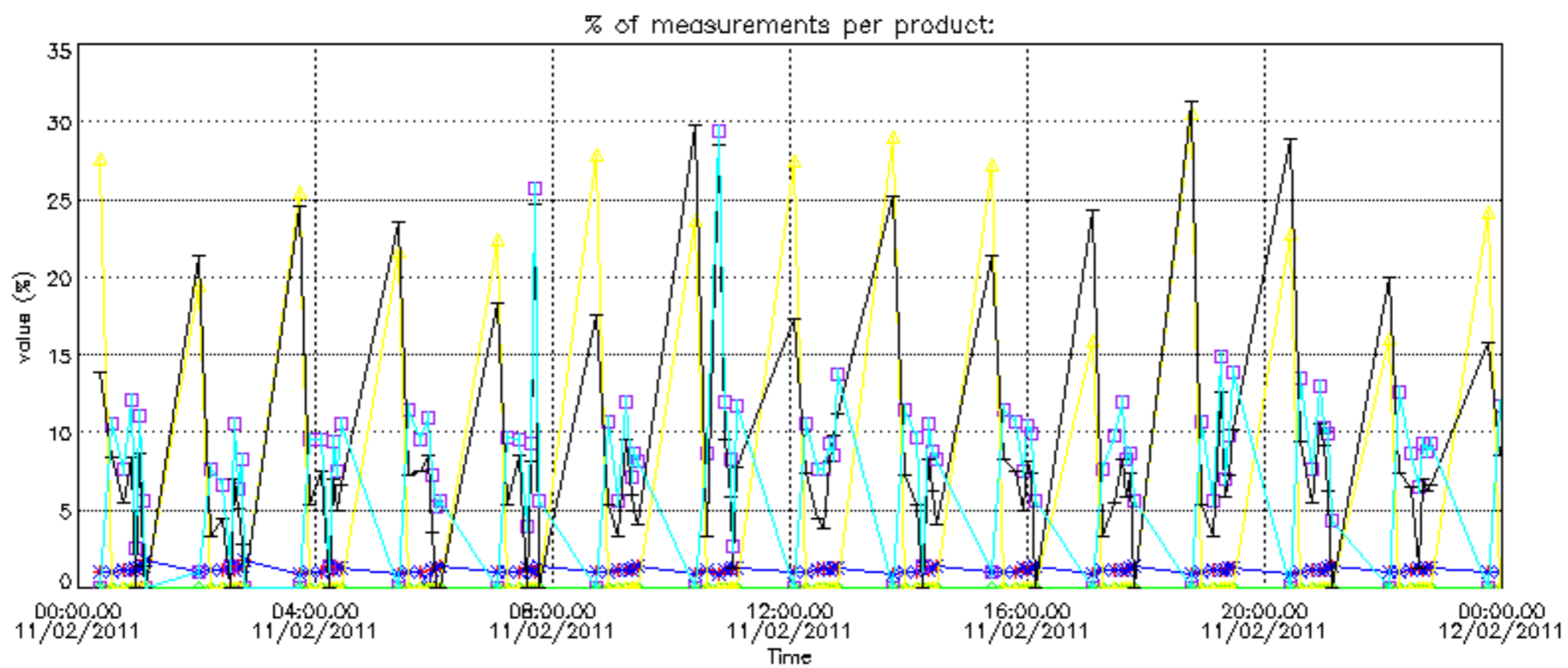
Percentage of flagged data per NO2 profile



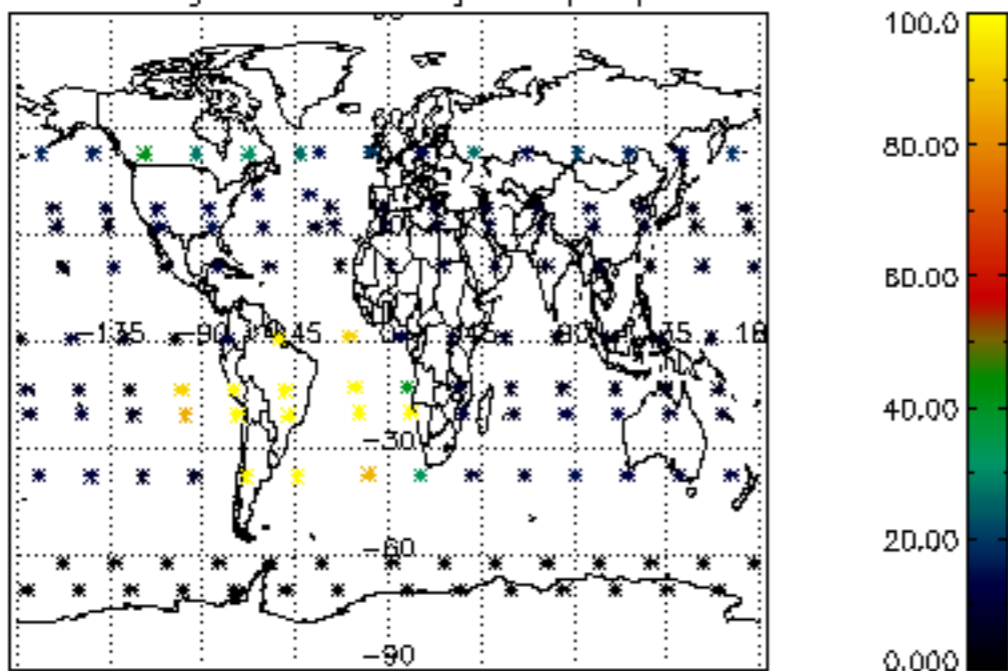
Percentage of flagged data per NO3 profile



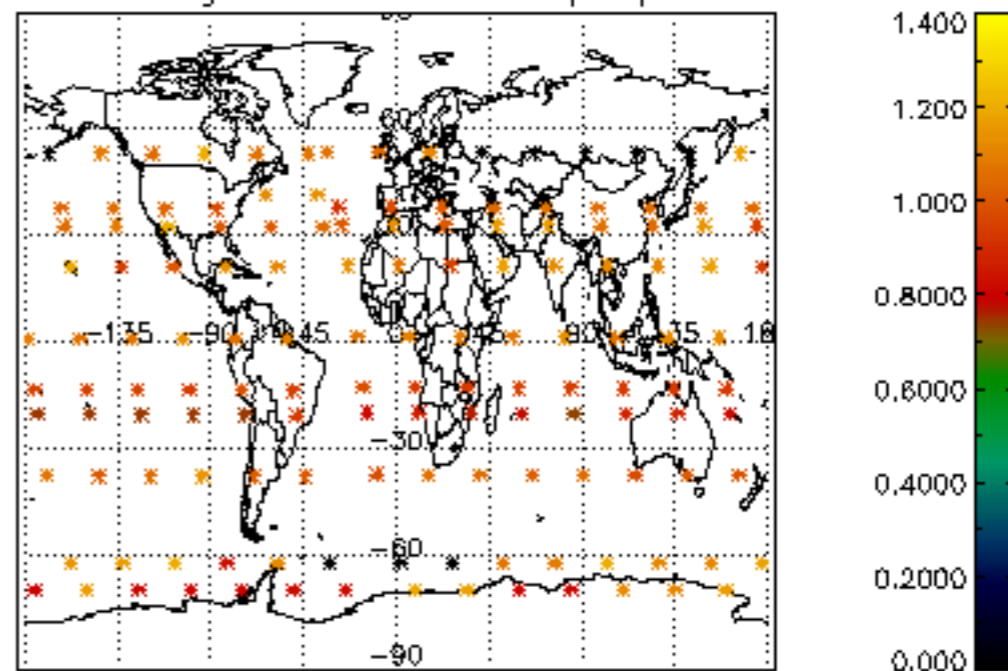




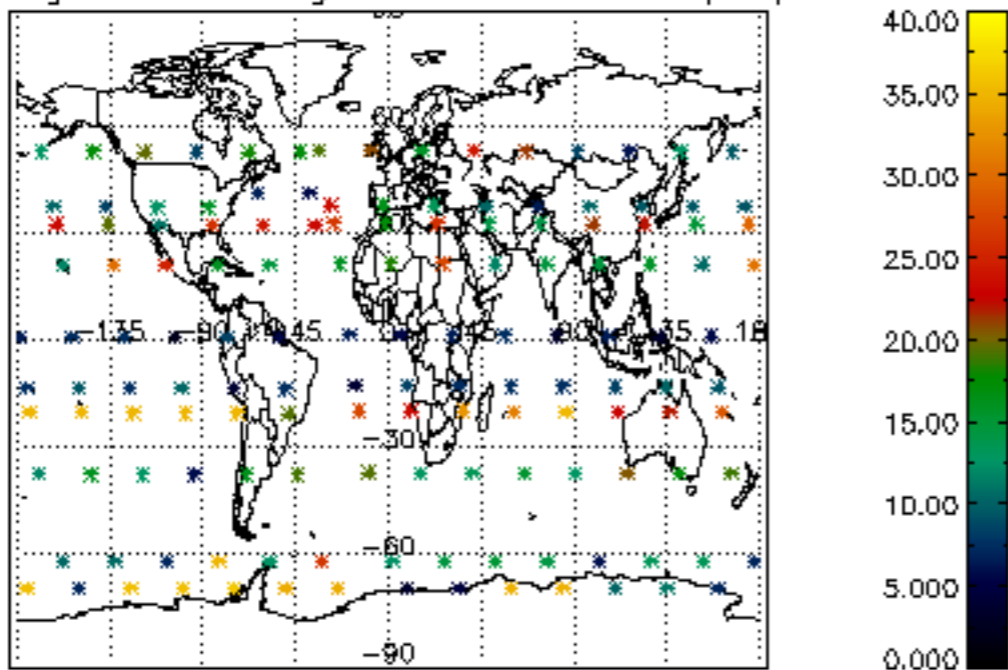
Percentage of cosmic ray hits per profile



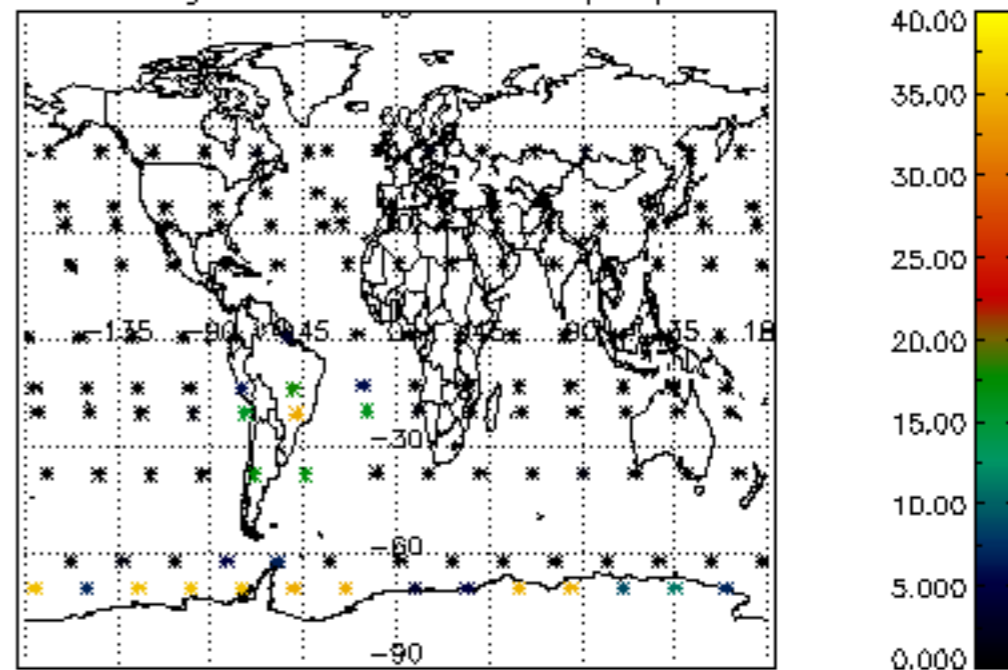
Percentage of datation errors per profile



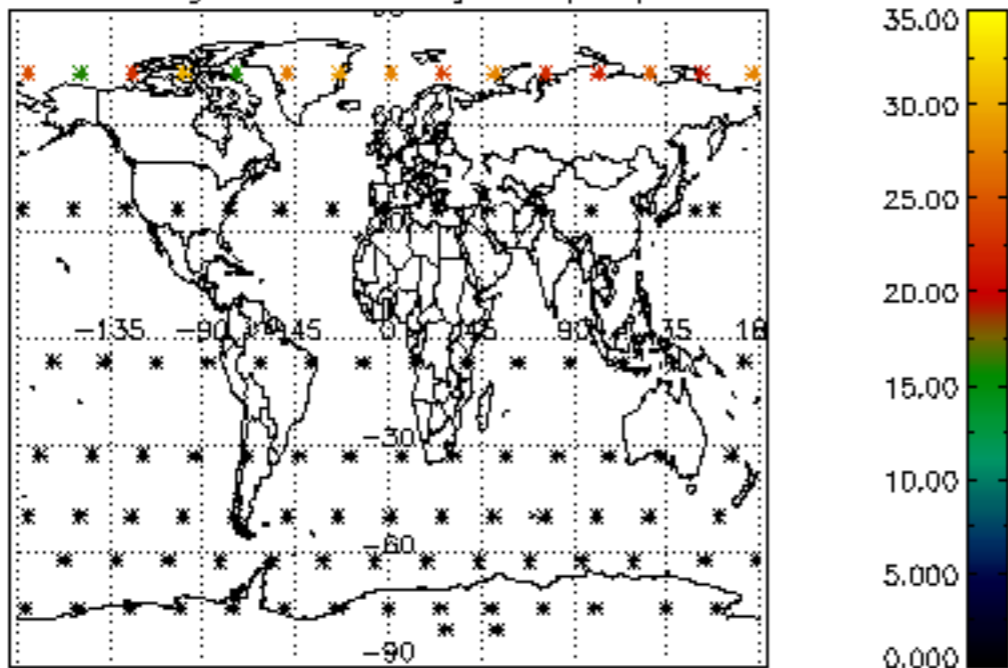
Percentage of star falling outside central band per profile



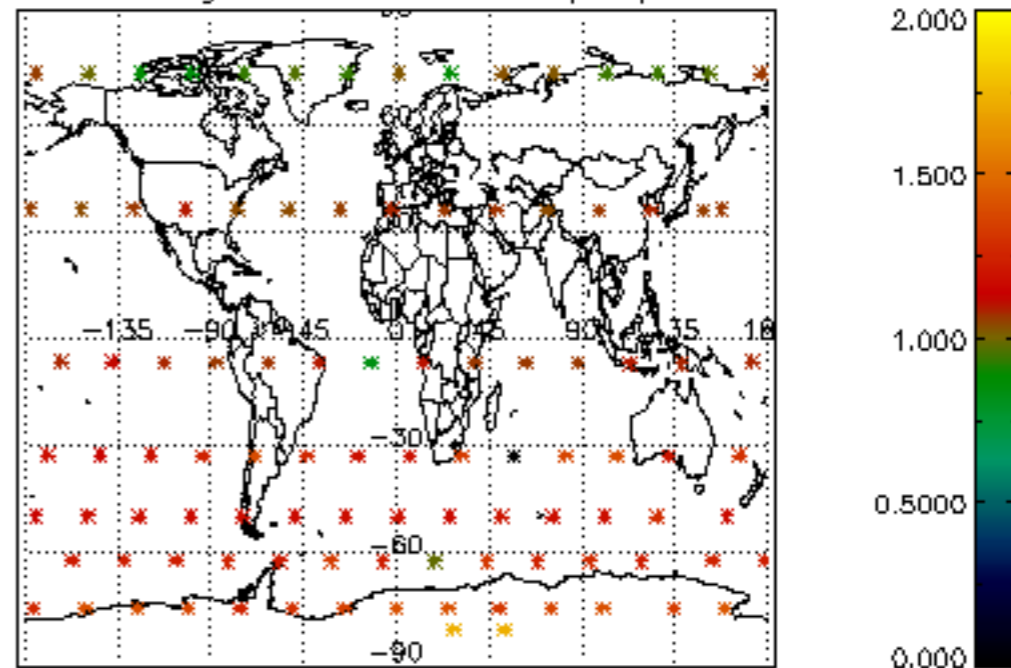
Percentage of saturation errors per profile



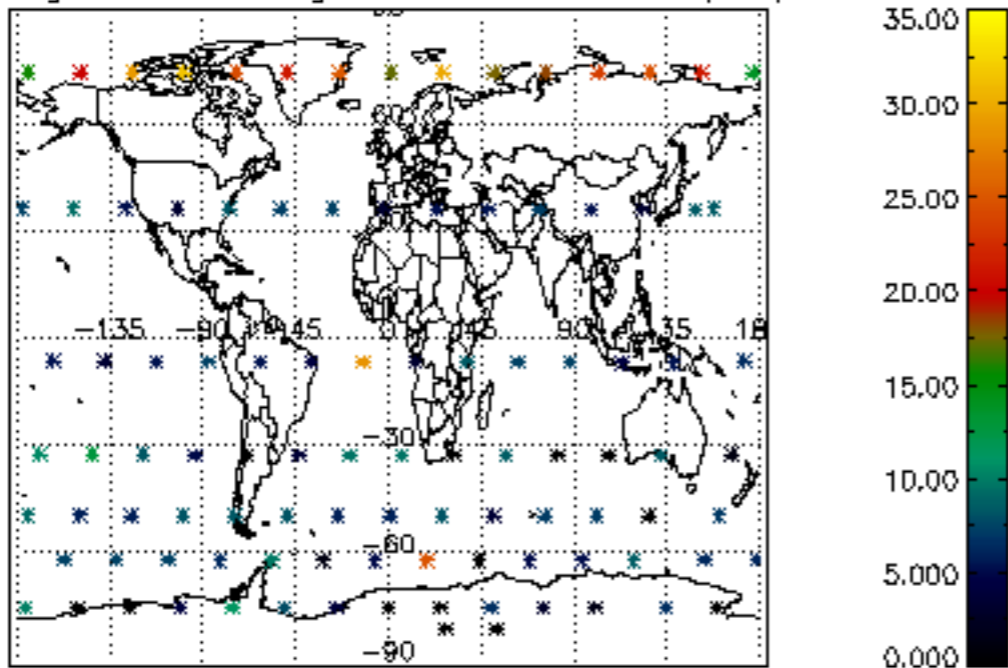
Percentage of cosmic ray hits per profile



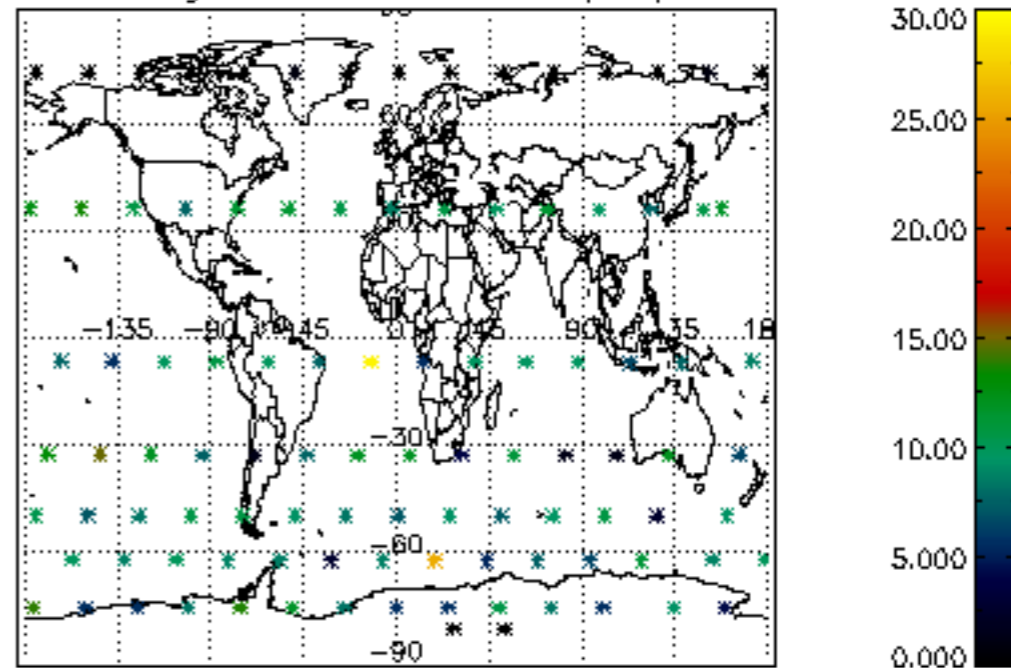
Percentage of datation errors per profile

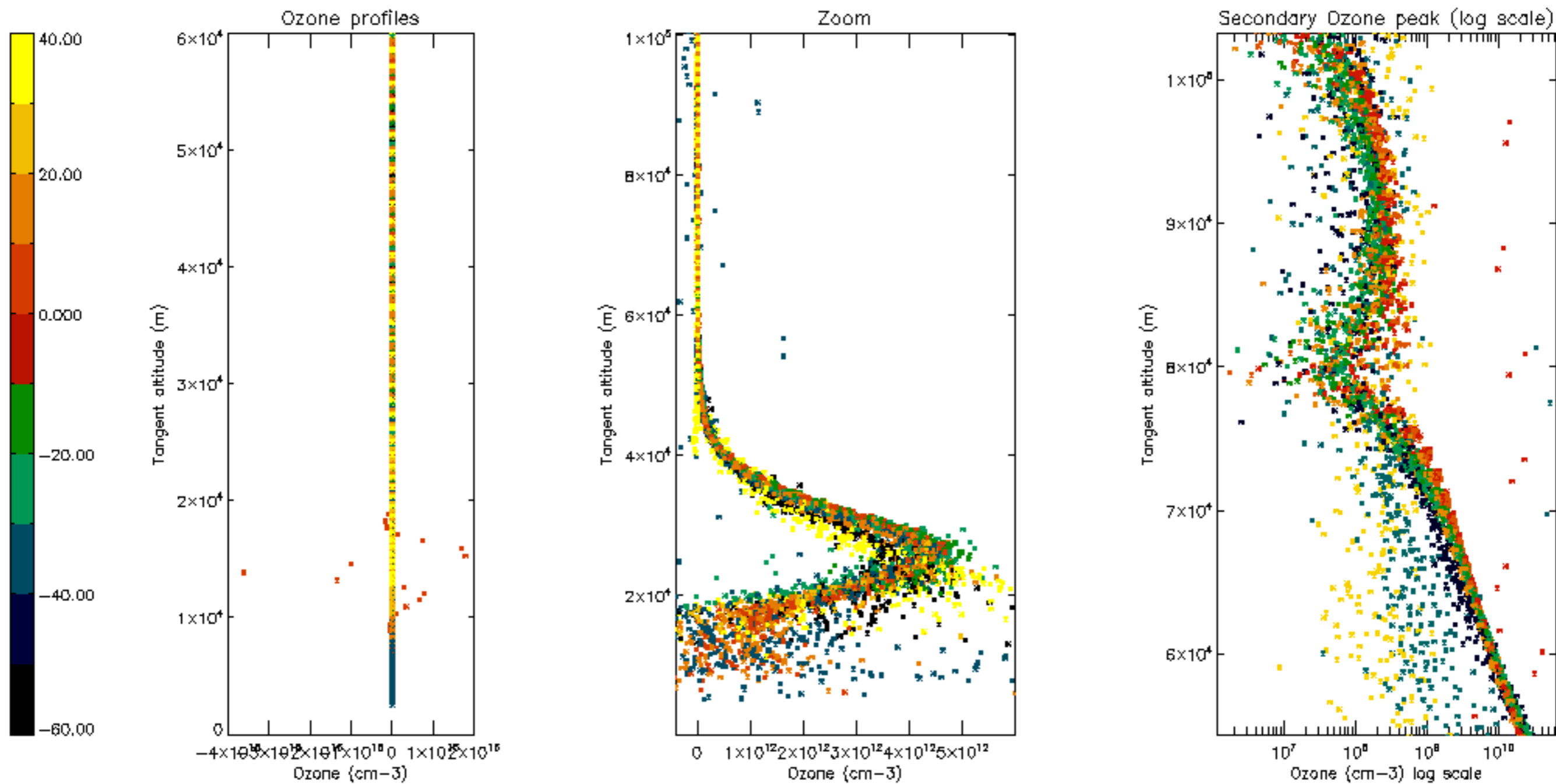


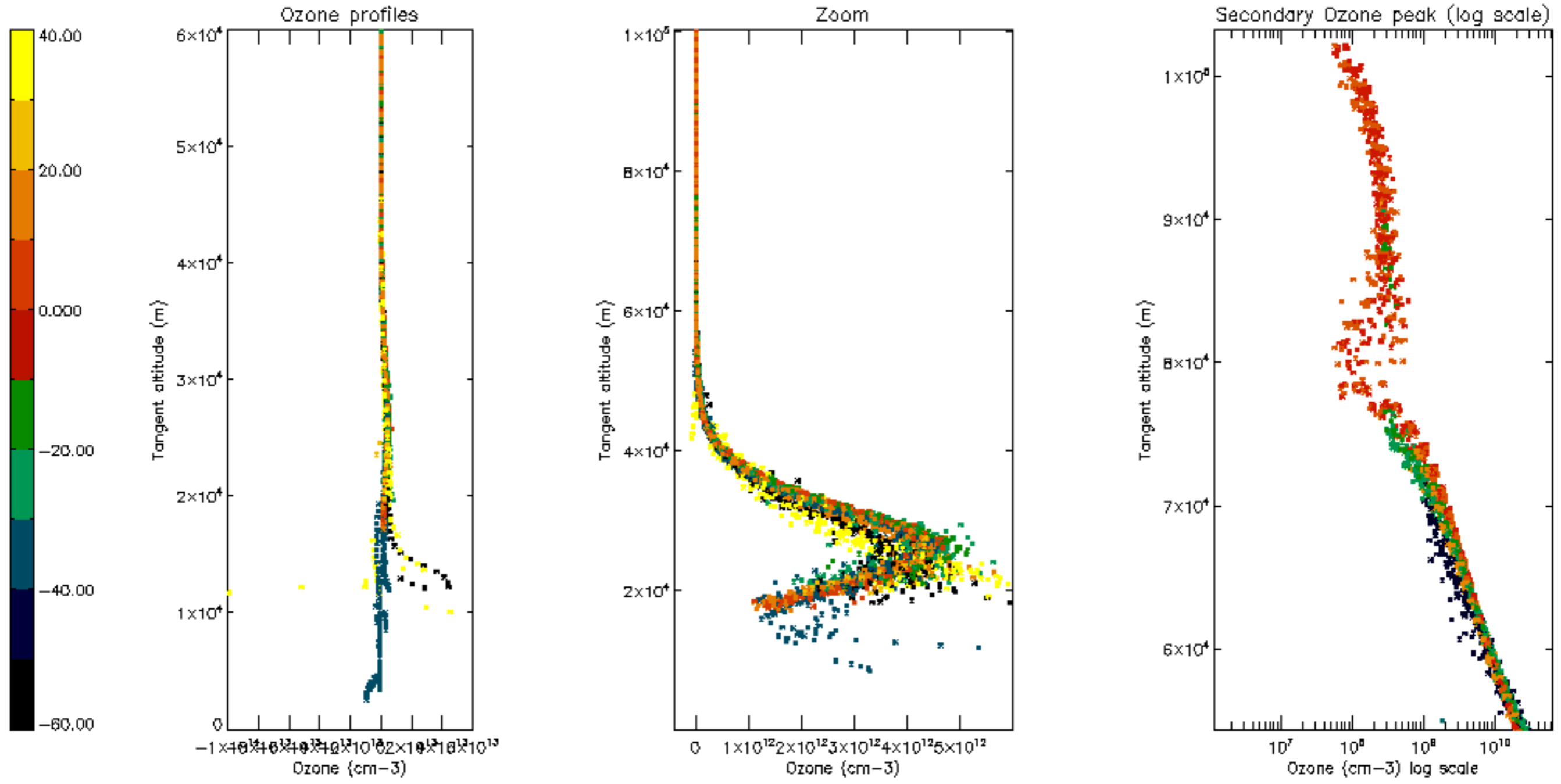
Percentage of star falling outside central band per profile

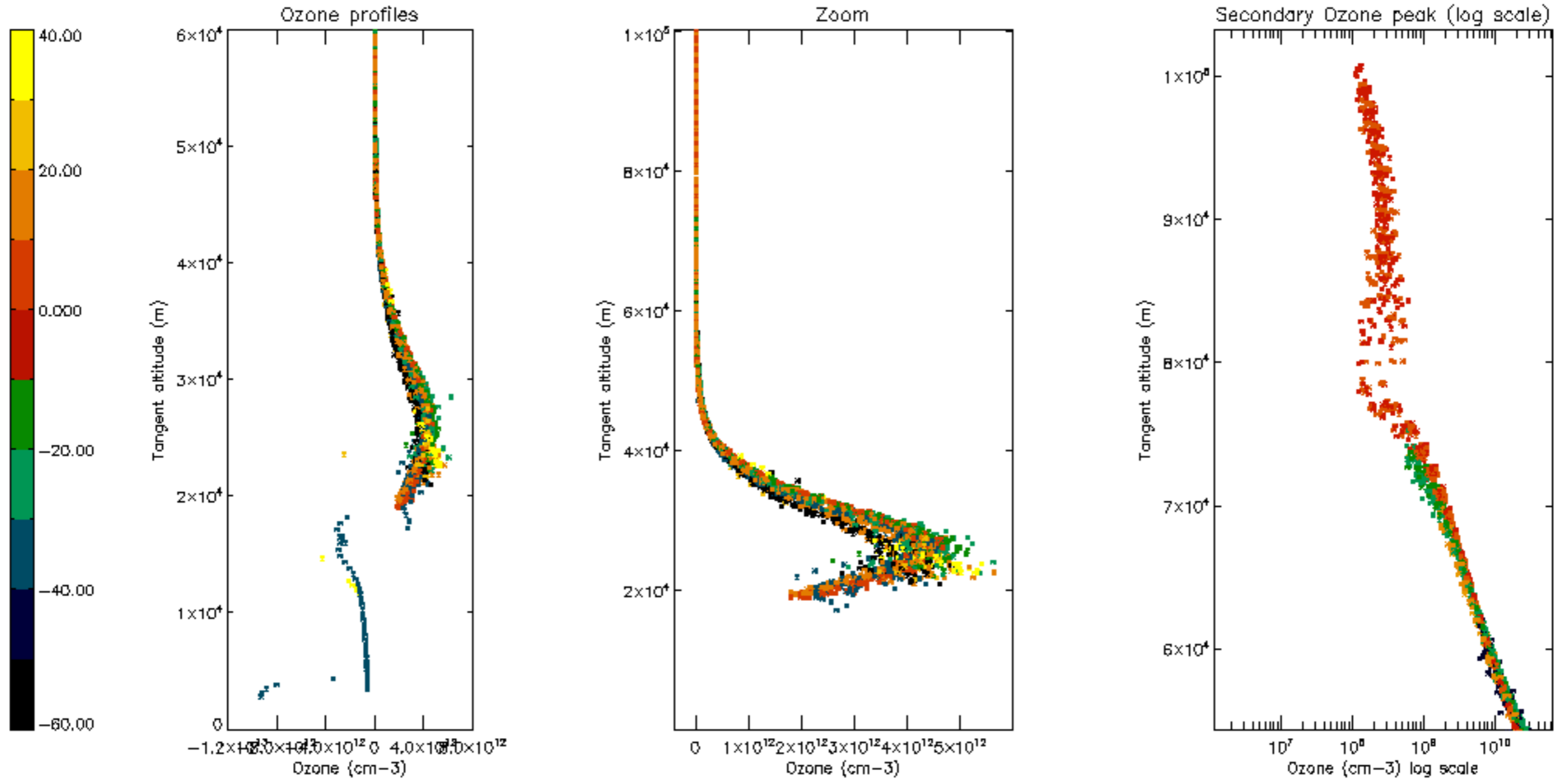


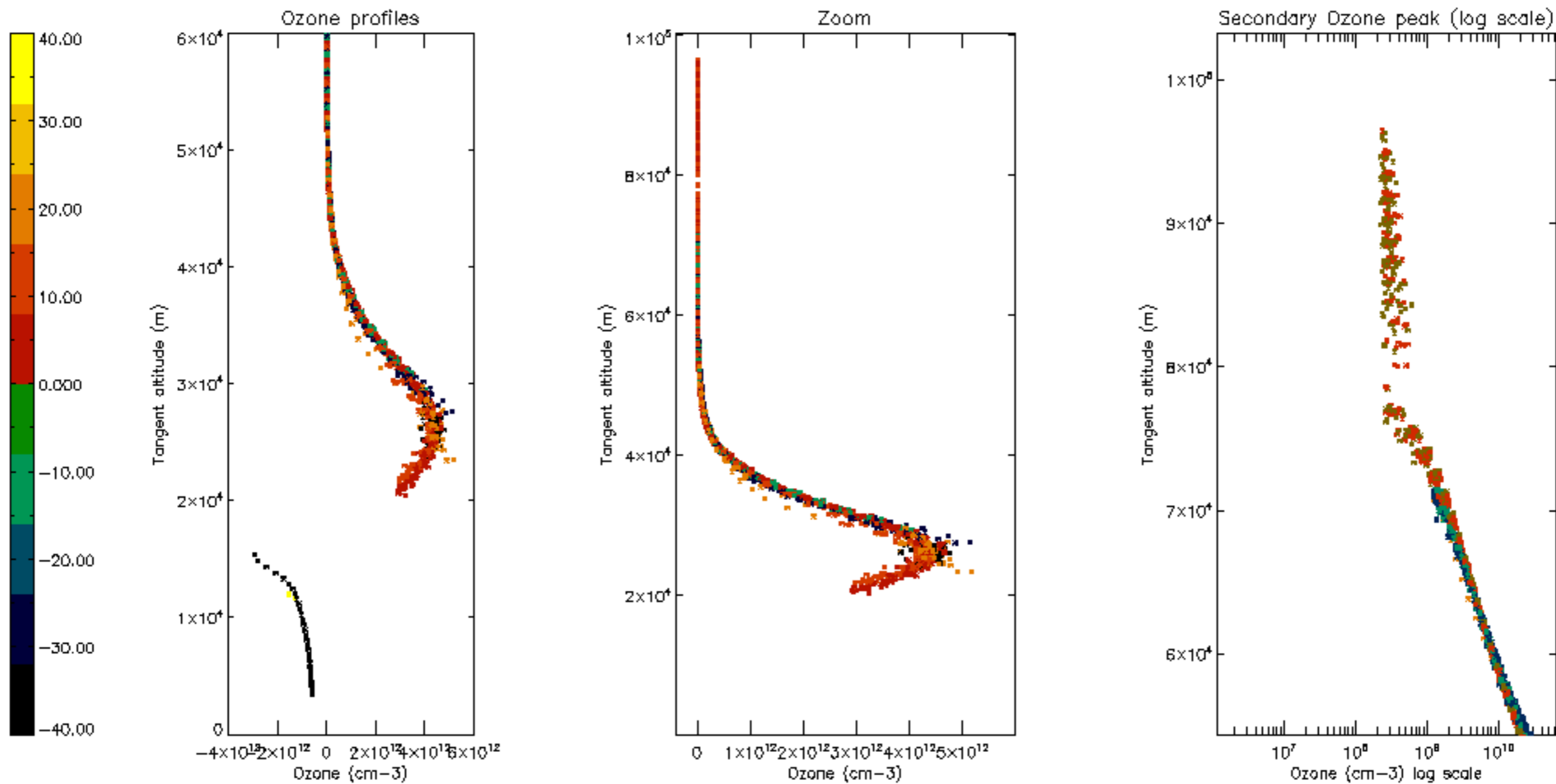
Percentage of saturation errors per profile

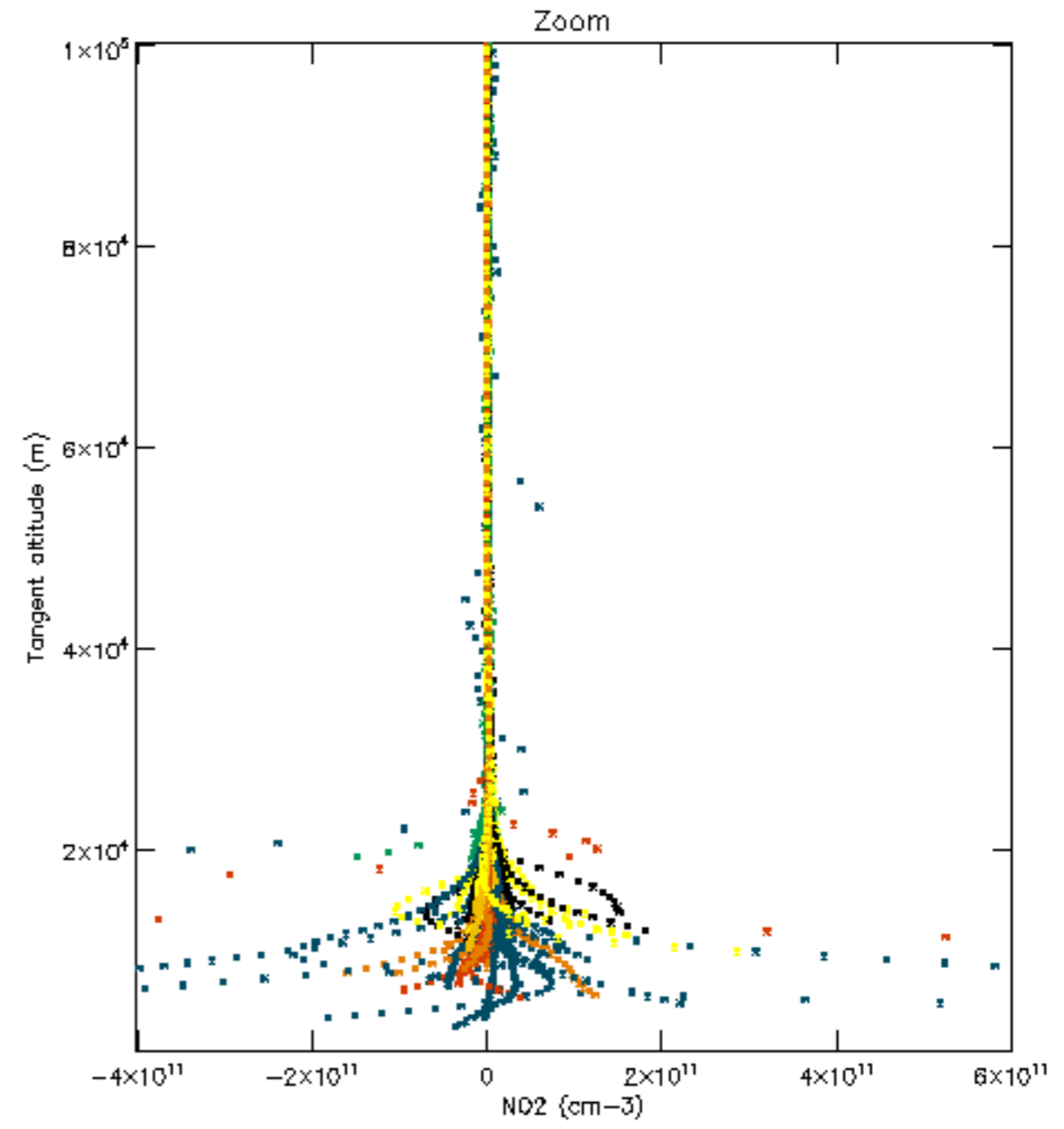
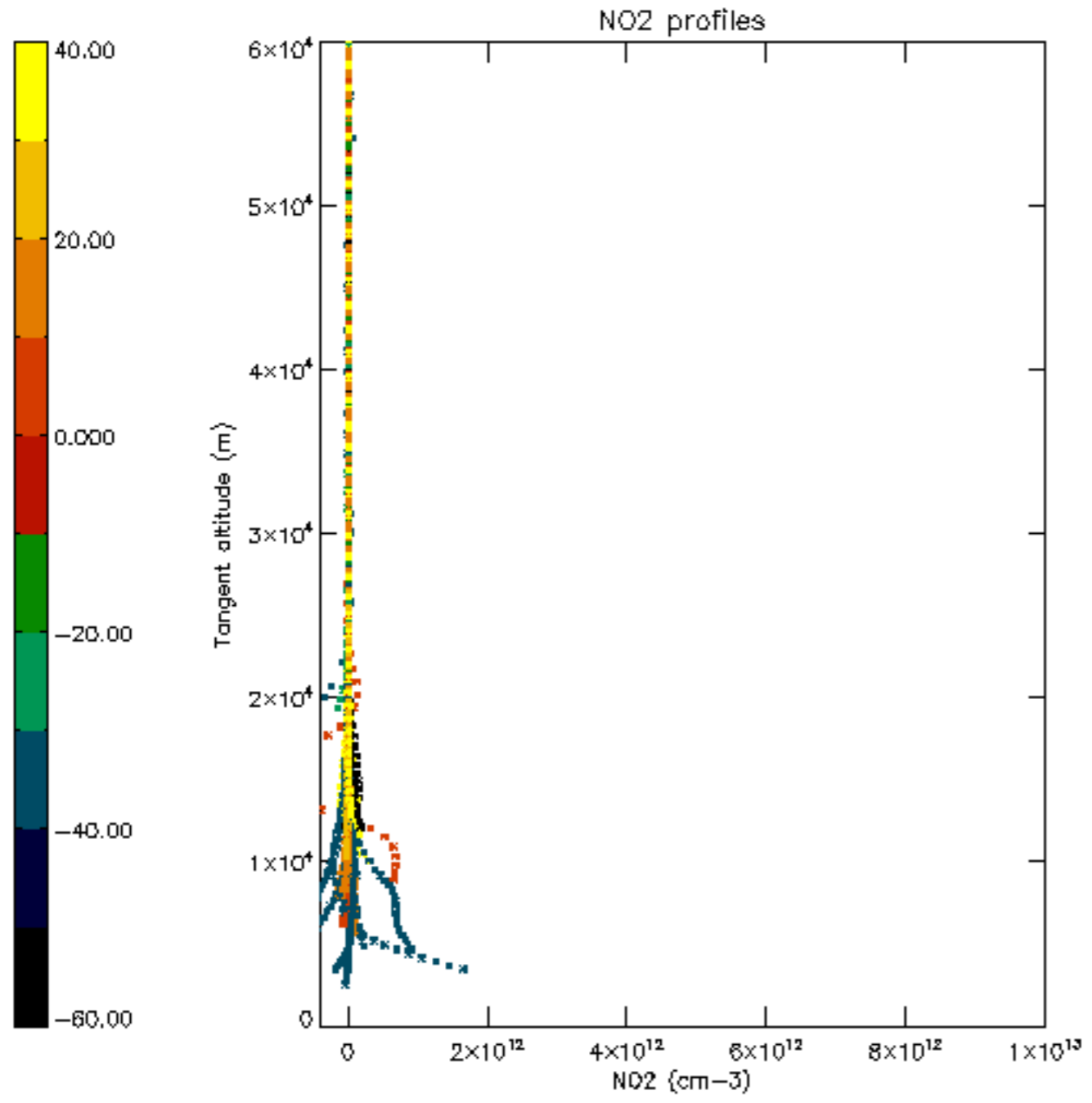


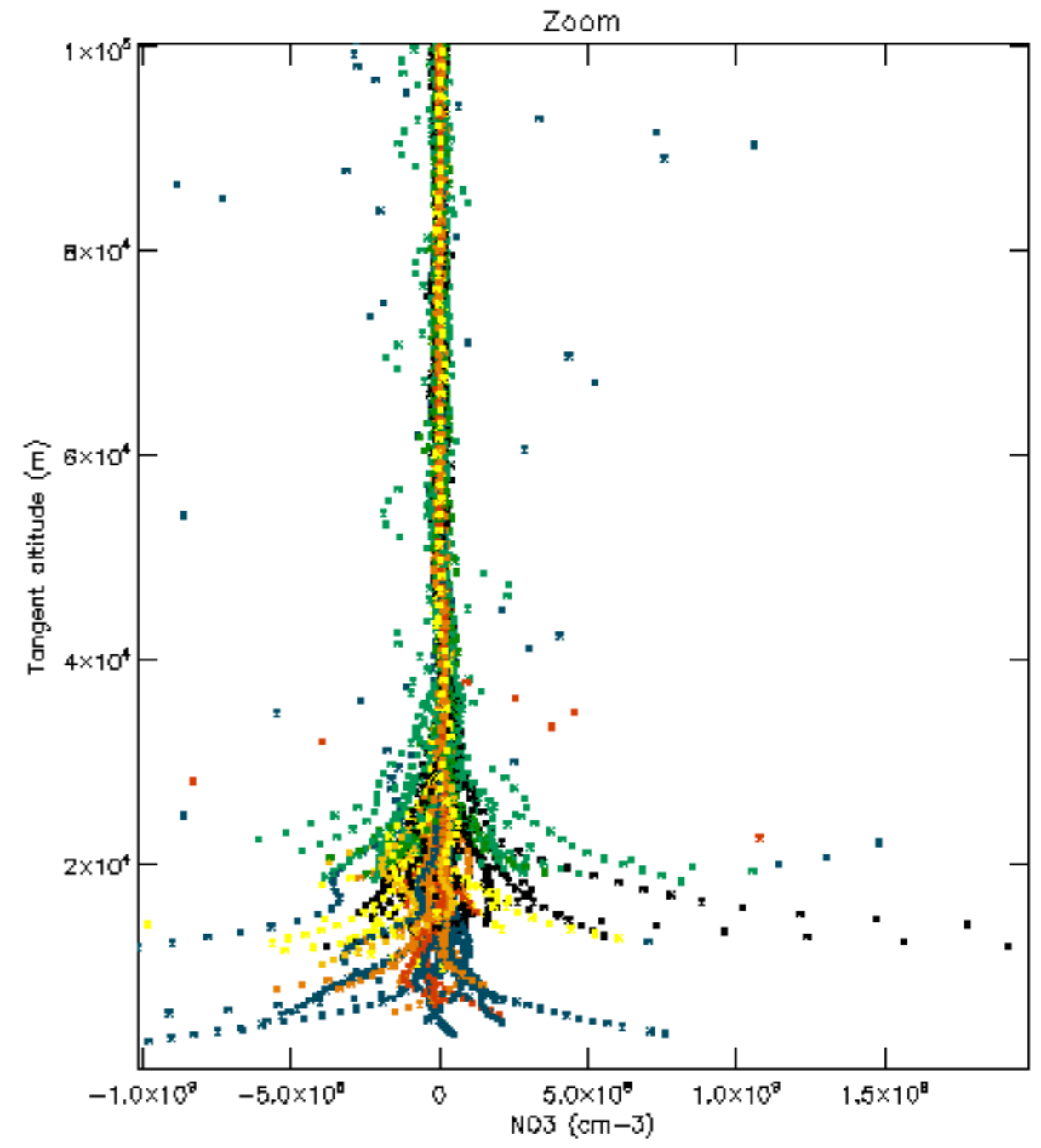
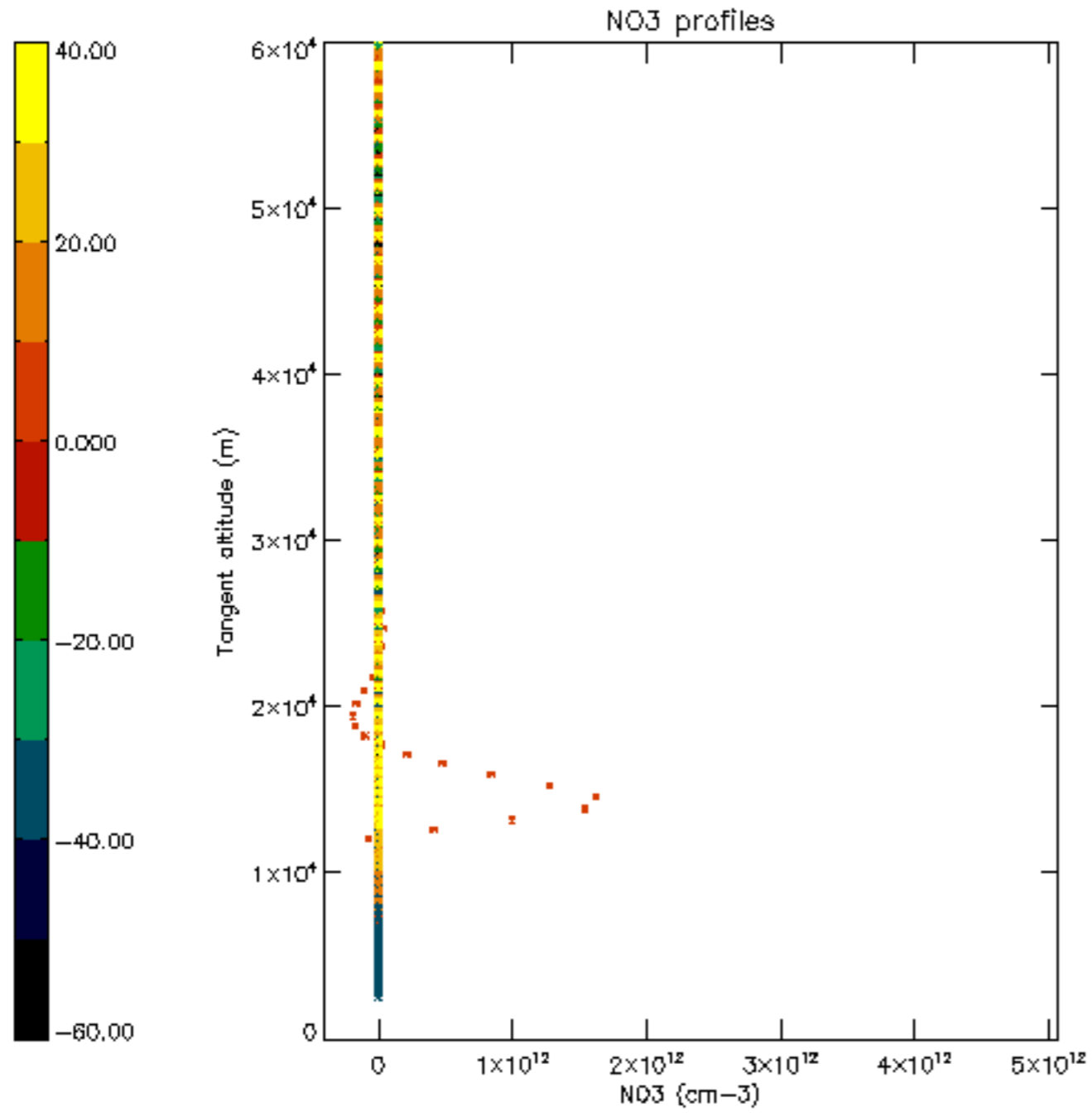


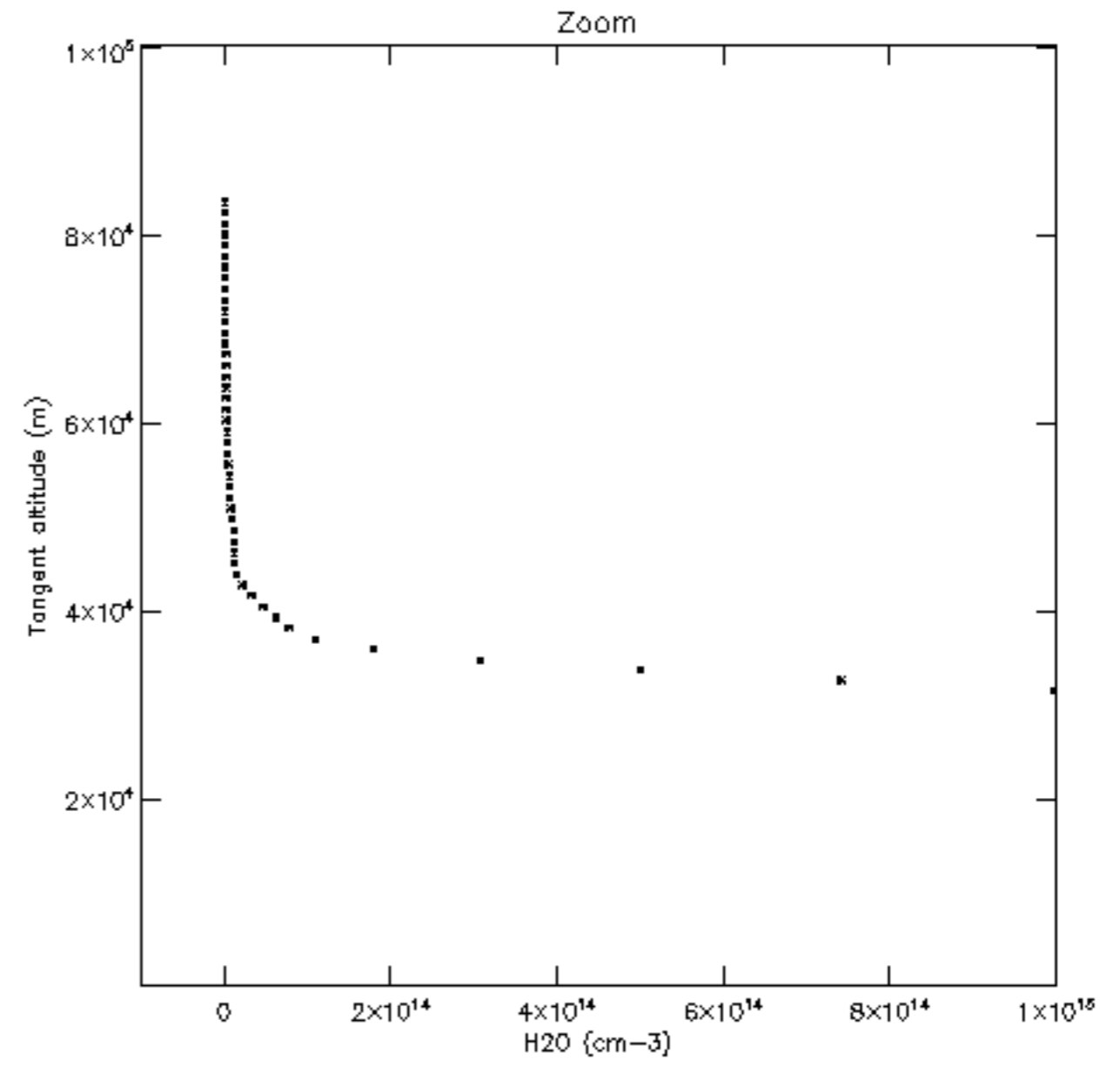
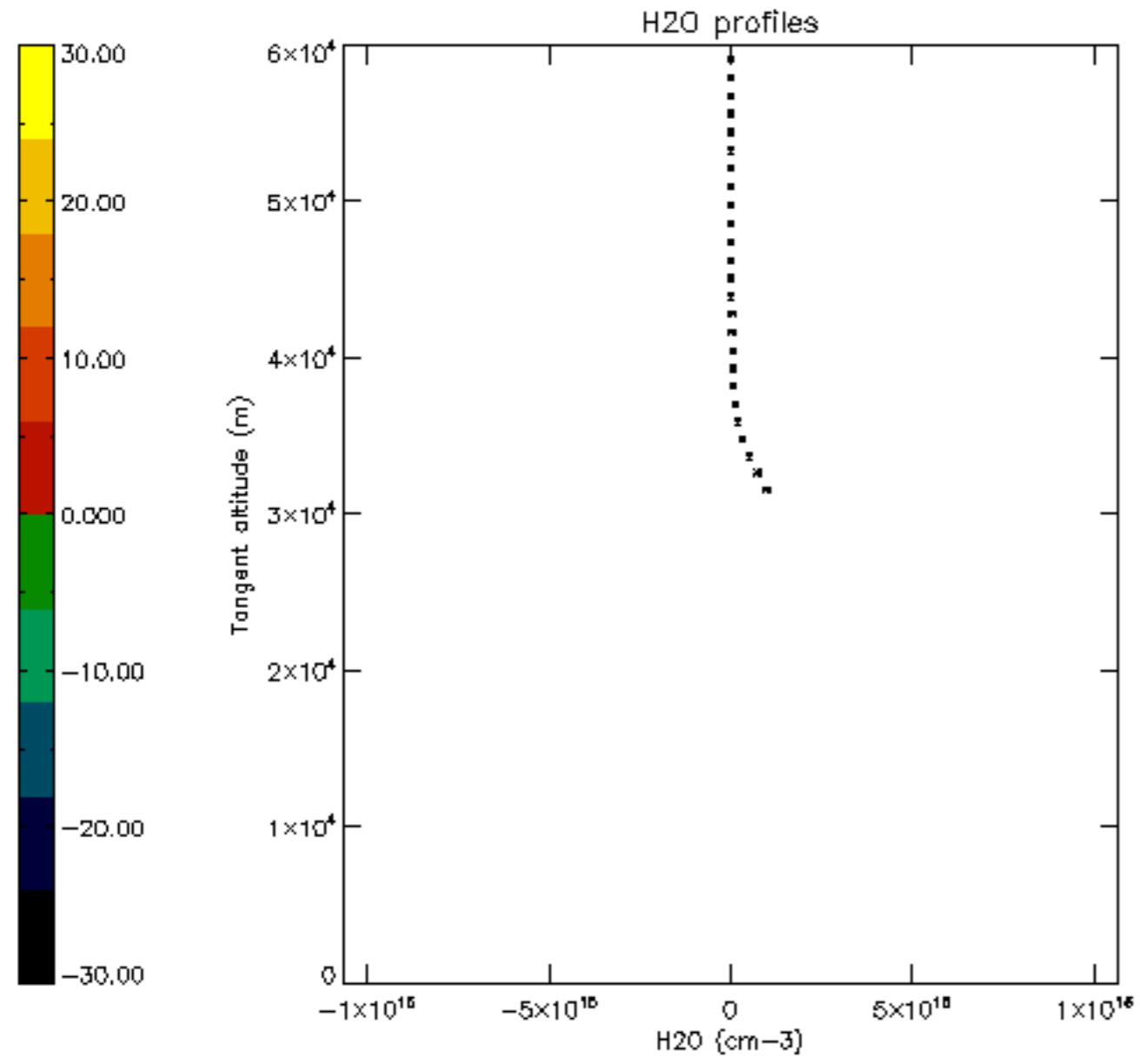


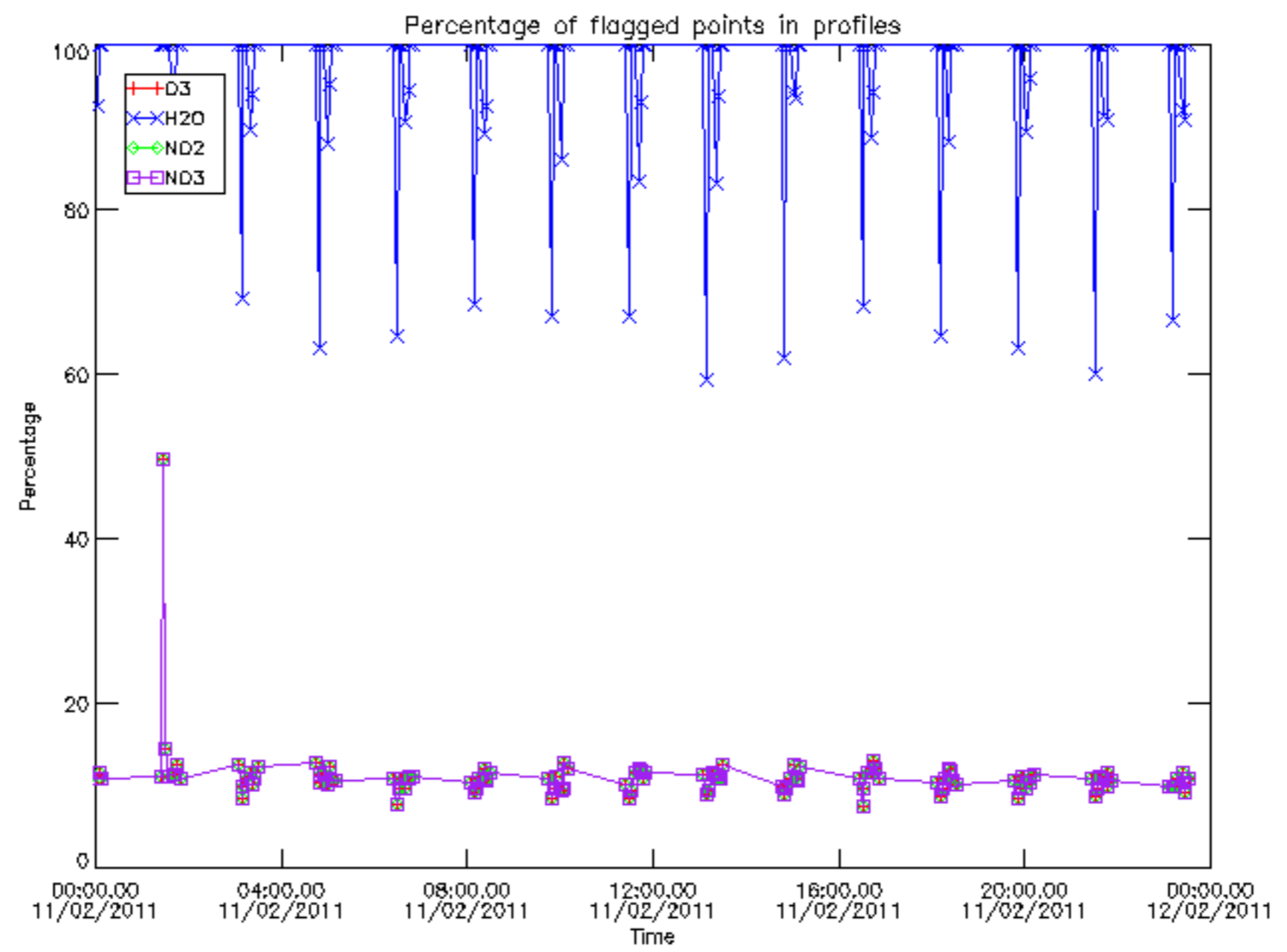




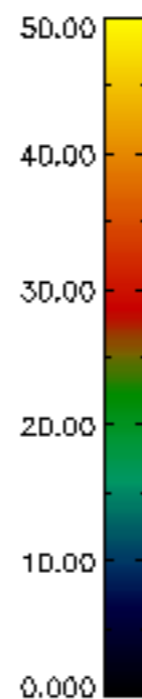
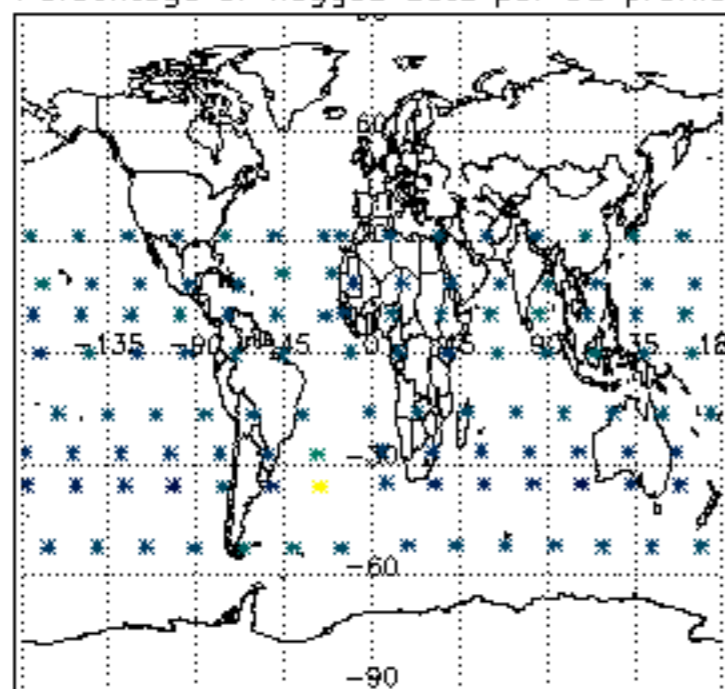




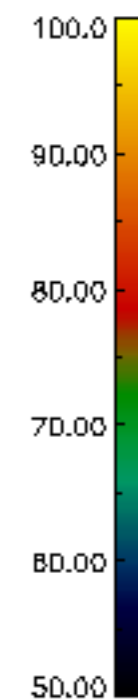
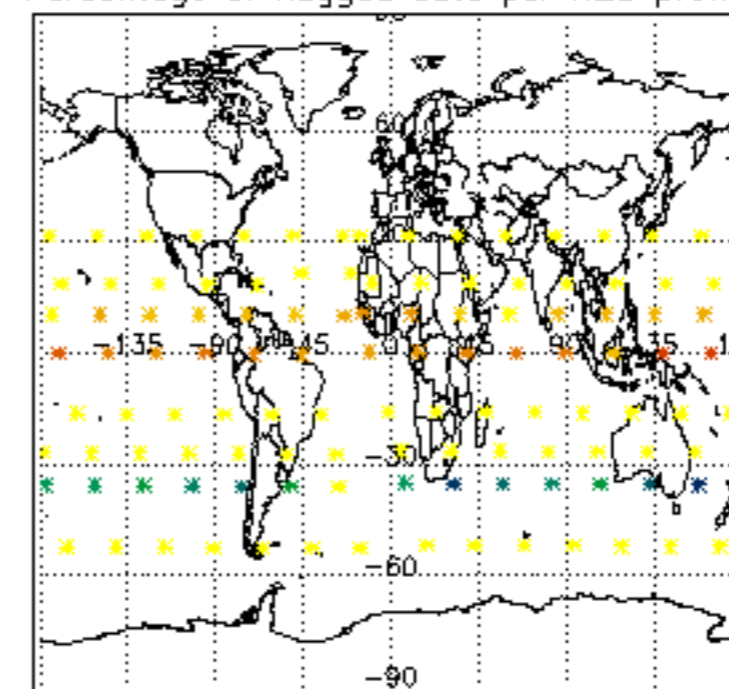




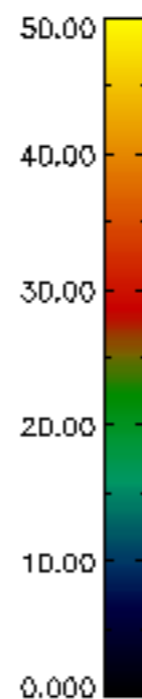
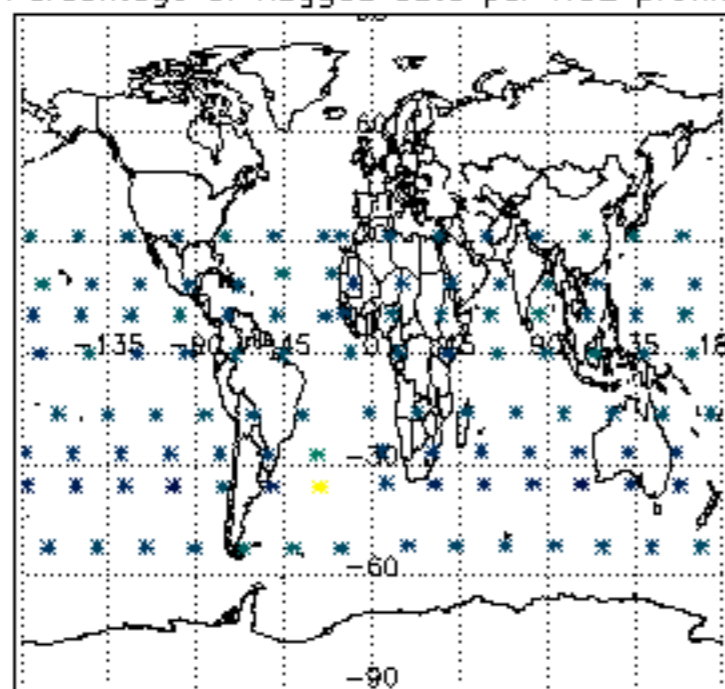
Percentage of flagged data per D3 profile



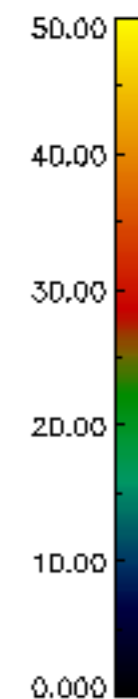
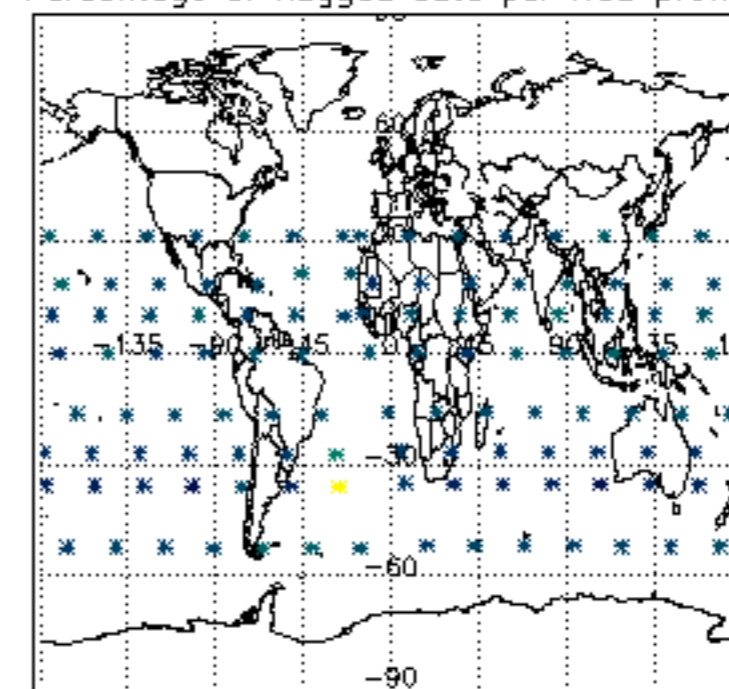
Percentage of flagged data per H2O profile

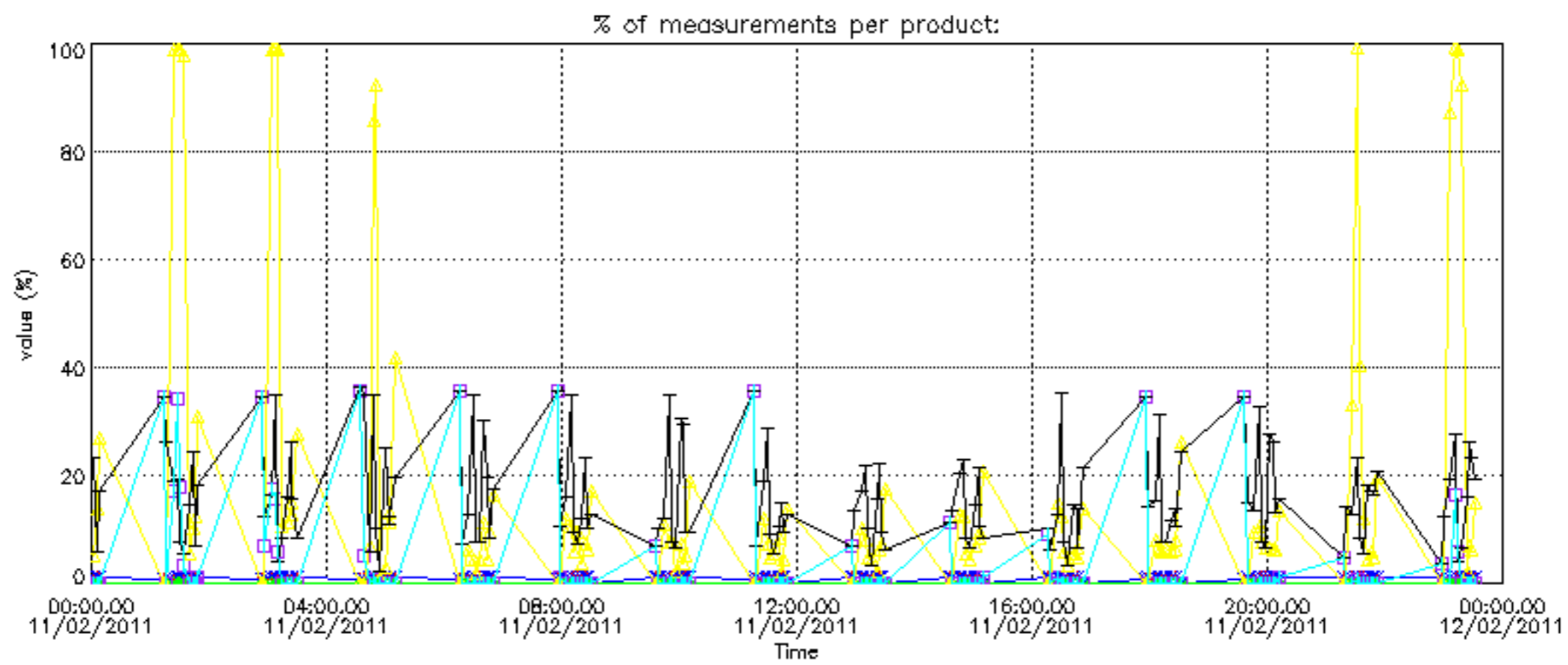
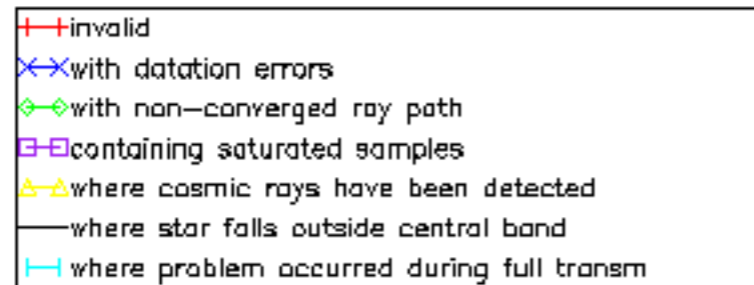


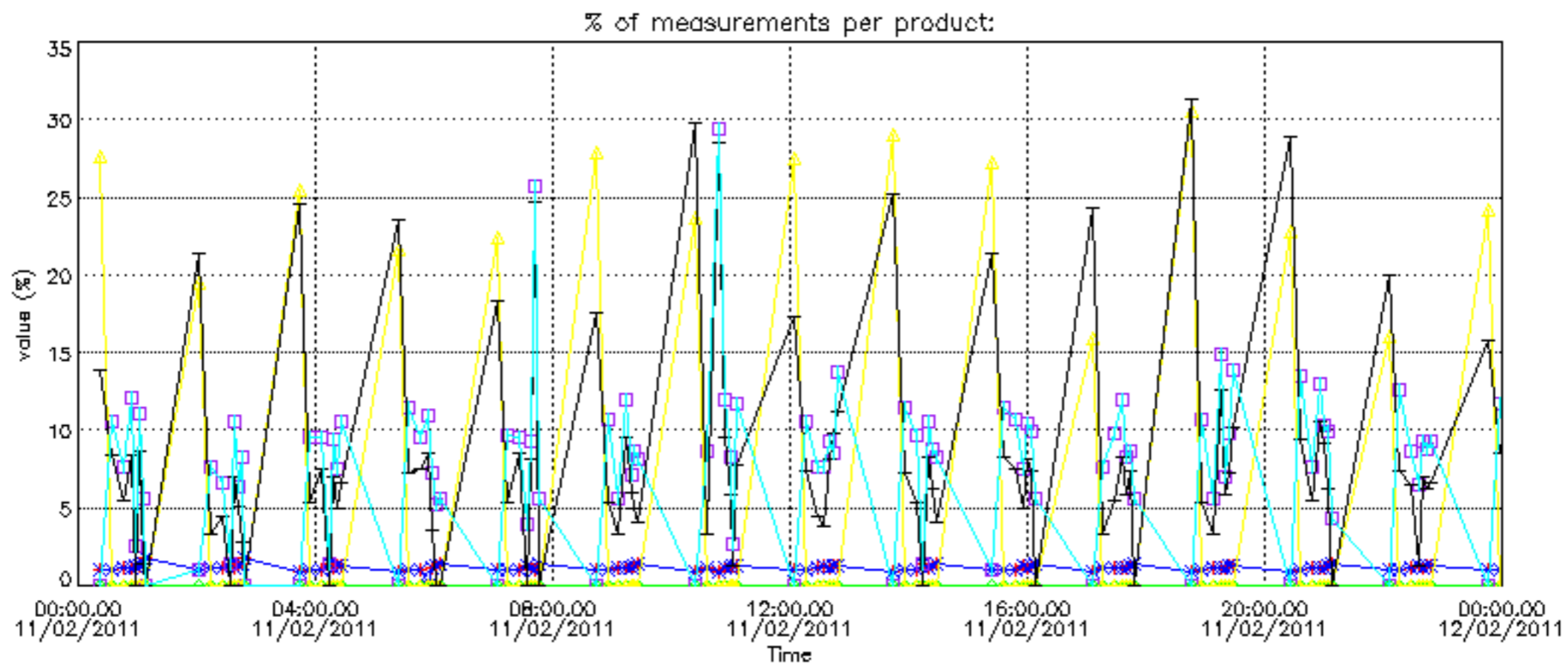
Percentage of flagged data per NO2 profile



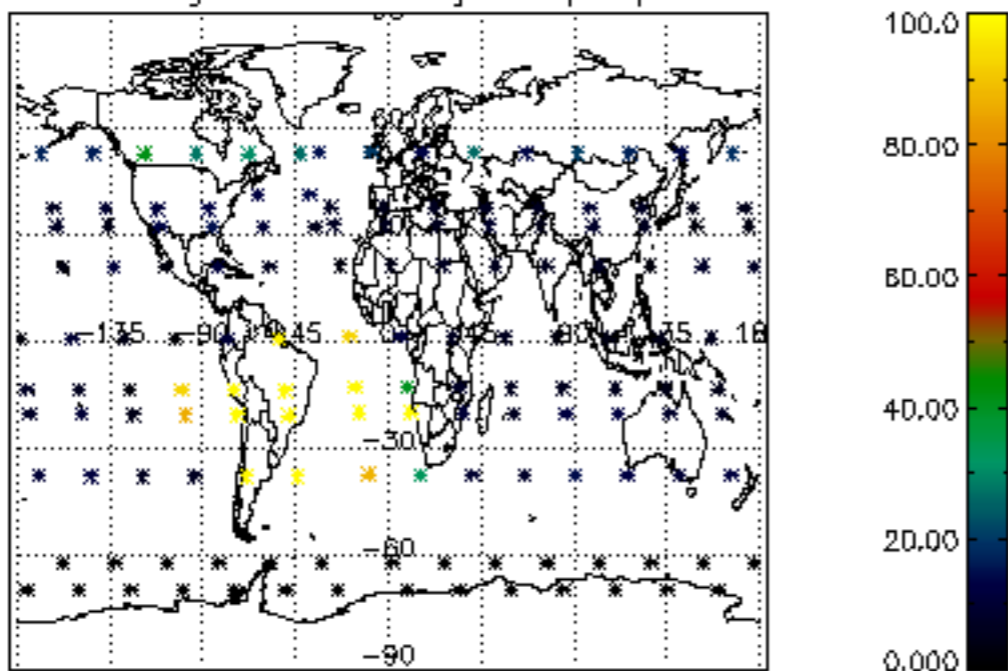
Percentage of flagged data per NO3 profile



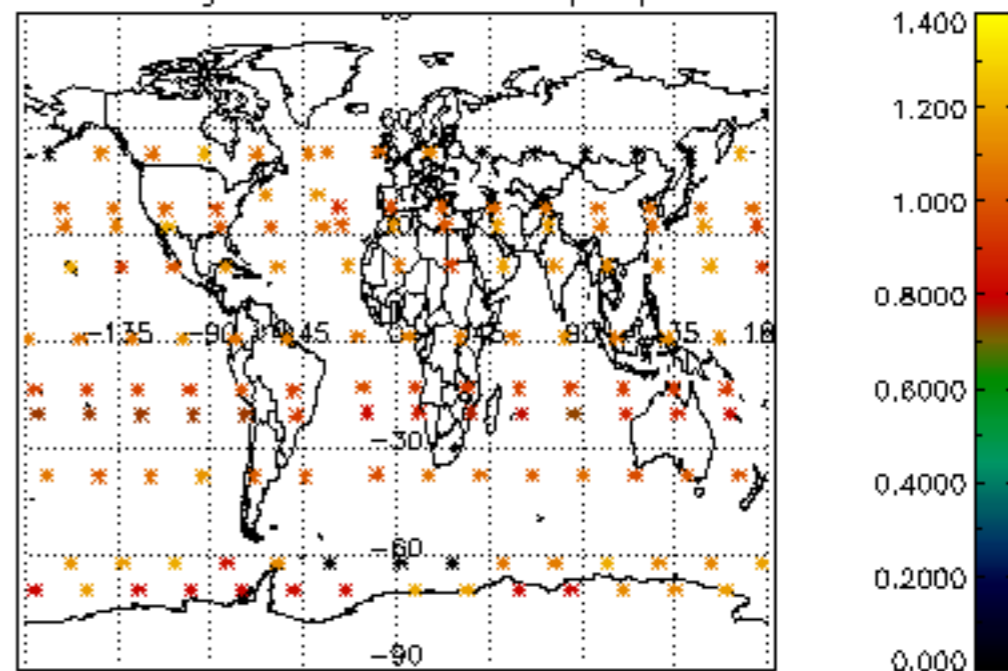




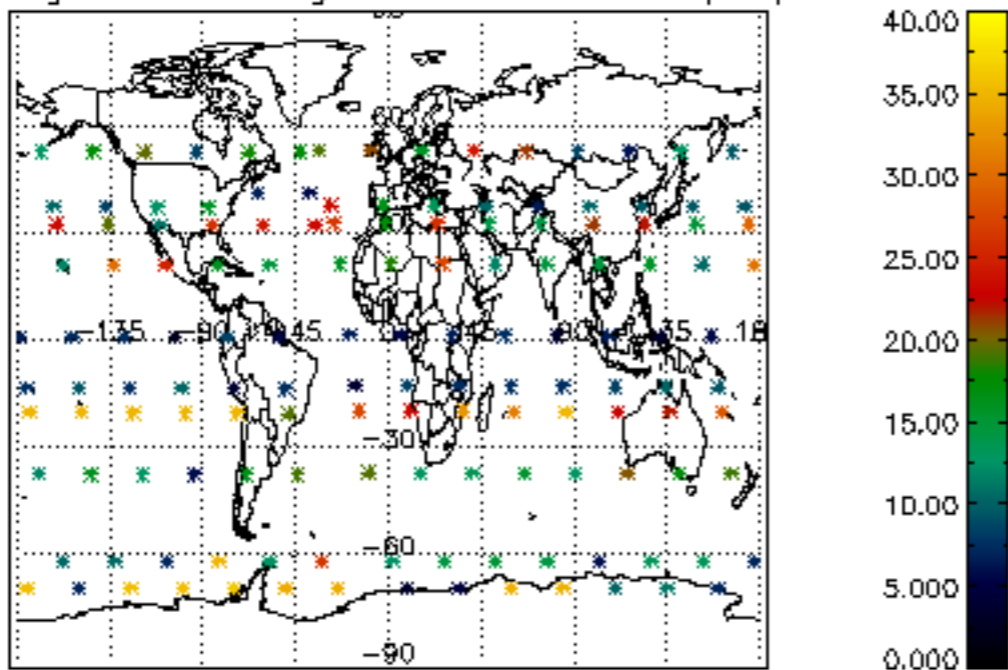
Percentage of cosmic ray hits per profile



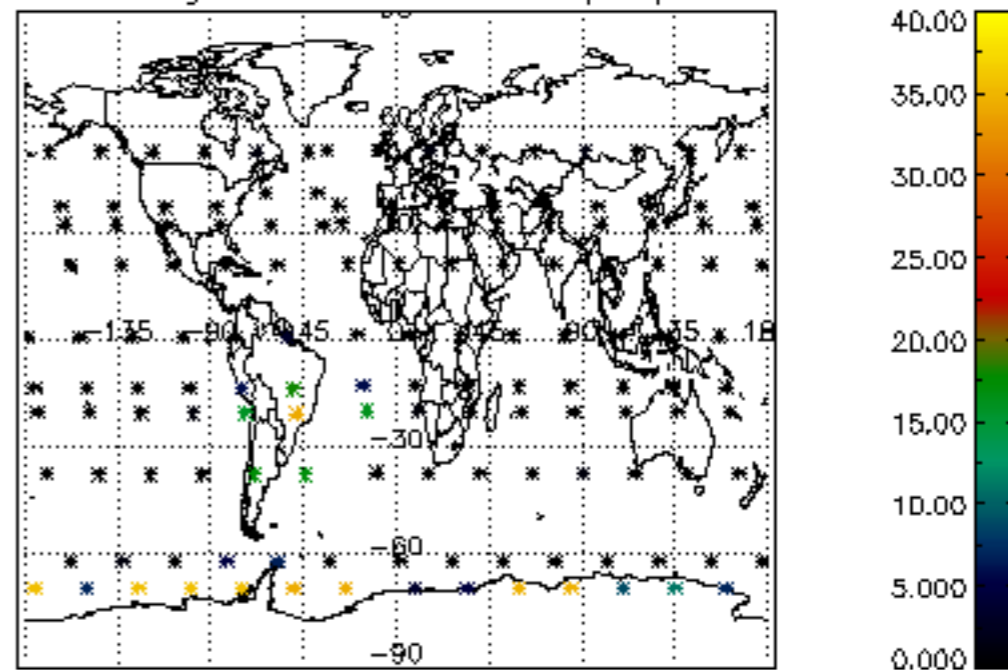
Percentage of datation errors per profile



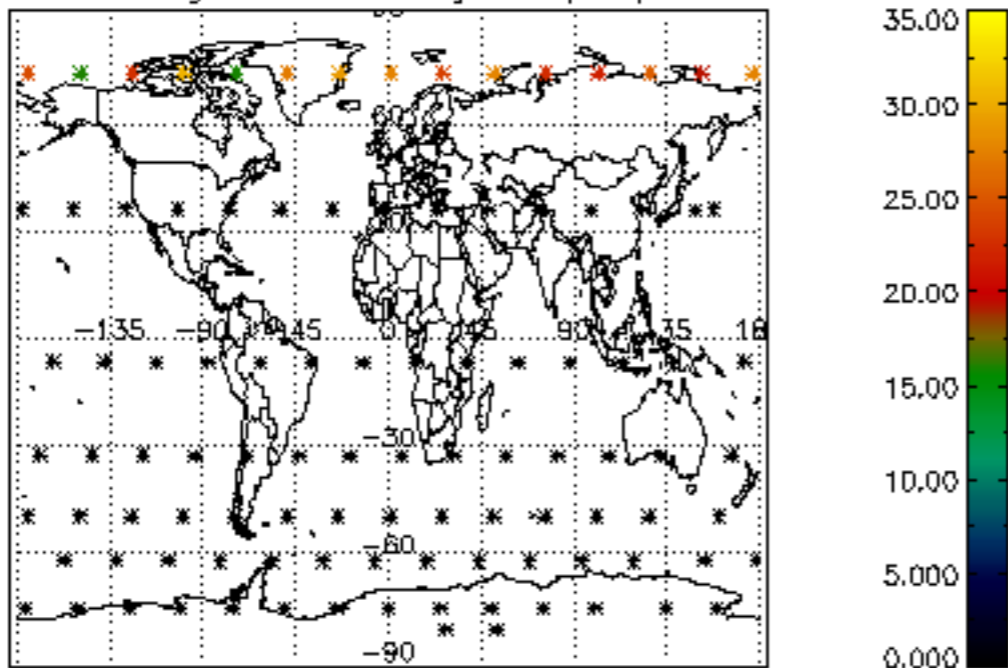
Percentage of star falling outside central band per profile



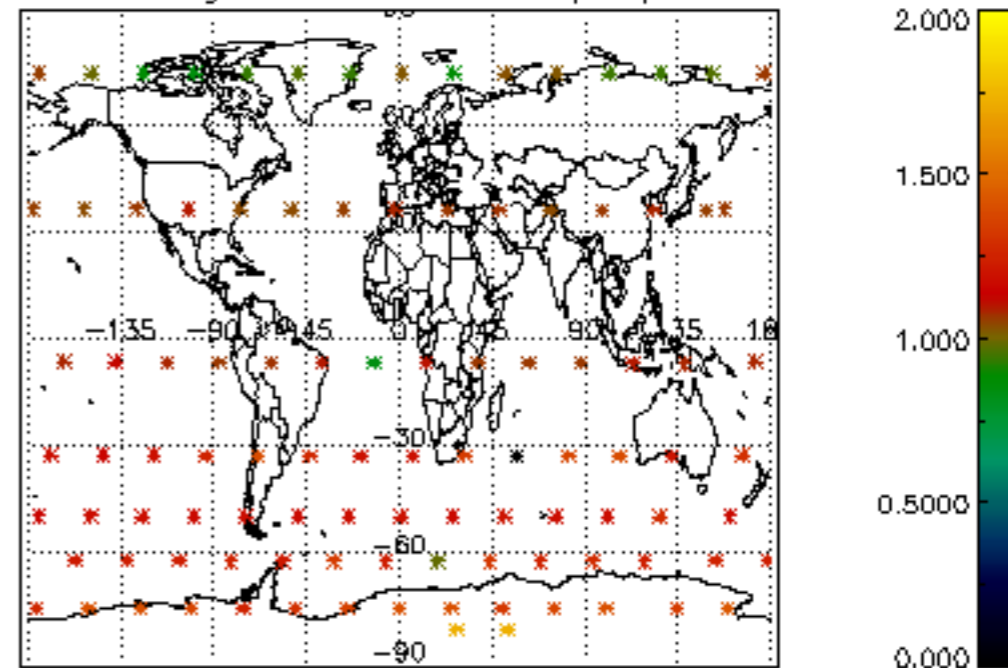
Percentage of saturation errors per profile



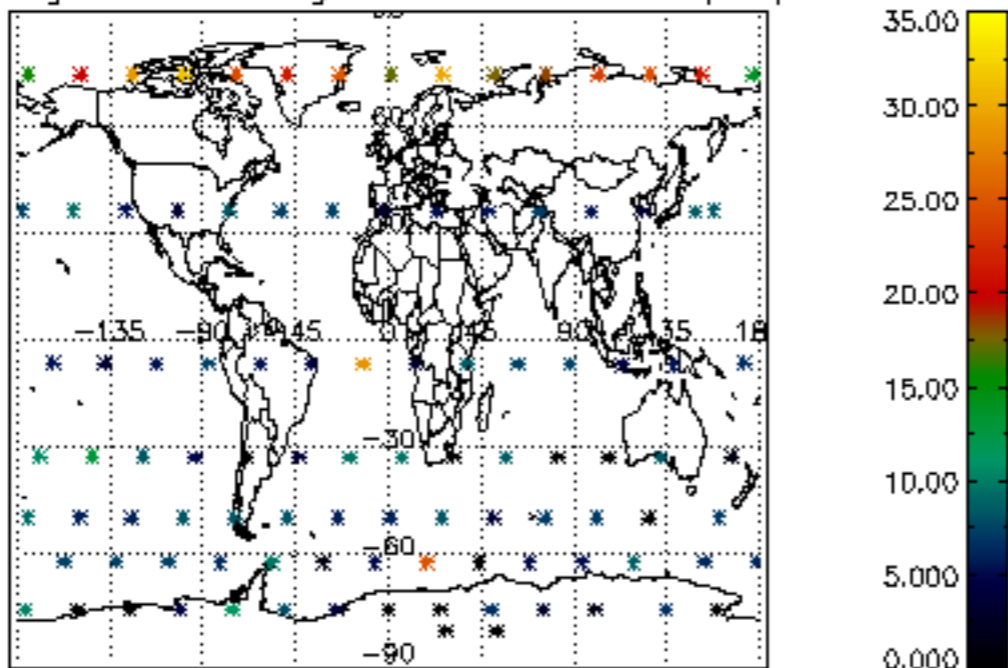
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

