

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	22APR2013 12:23:29
Data source version	GOMOS/6.01
Start time of products	11-01-2007 (11JAN2007 00:00:00)
Stop time of products	12-01-2007 (12JAN2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	421
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

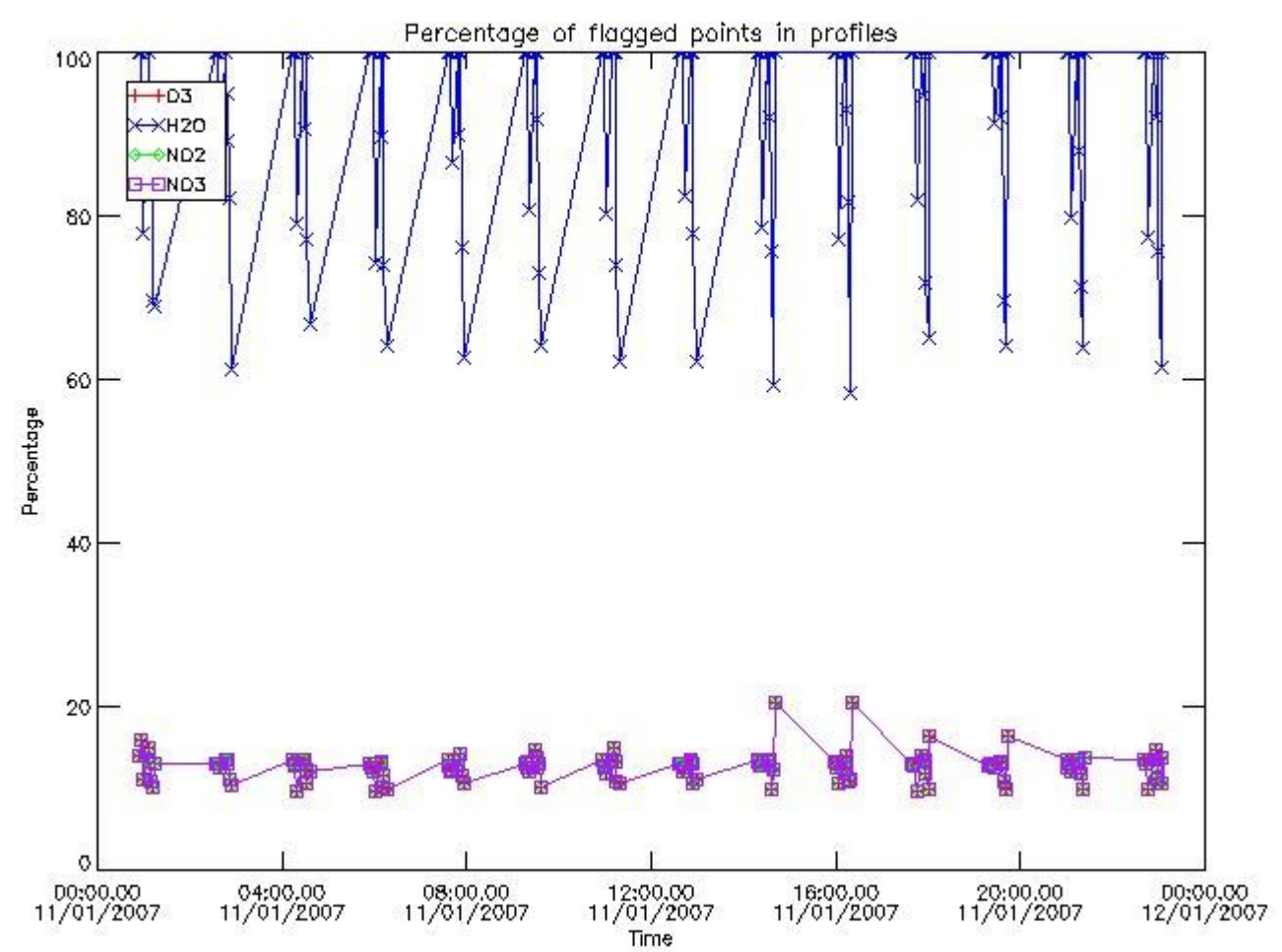
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20070111_000147_000000372054_00331_25435_0260.N1	11-JAN-2007 00:01:47	Bright	37.000	42	34Bet Aur	1.9000	10200.	74	25435	No
2	GOM_NL__2PRFIN20070111_001415_000000332054_00331_25435_0261.N1	11-JAN-2007 00:14:15	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	25435	No
3	GOM_NL__2PRFIN20070111_001824_000000342054_00331_25435_0262.N1	11-JAN-2007 00:18:24	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	25435	No
4	GOM_NL__2PRFIN20070111_002235_000000362054_00331_25435_0263.N1	11-JAN-2007 00:22:35	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	25435	No
5	GOM_NL__2PRFIN20070111_002500_000000362054_00331_25435_0264.N1	11-JAN-2007 00:25:00	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	25435	No
6	GOM_NL__2PRFIN20070111_003114_000000352054_00331_25435_0265.N1	11-JAN-2007 00:31:14	Bright	35.000	133	40Zet Her	2.8070	6000.0	70	25435	No
7	GOM_NL__2PRFIN20070111_003416_000000352054_00331_25435_0266.N1	11-JAN-2007 00:34:16	Bright	35.000	127	27Bet Her	2.7810	4700.0	70	25435	No
8	GOM_NL__2PRFIN20070111_004142_000000372054_00331_25435_0267.N1	11-JAN-2007 00:41:42	Bright	37.000	120	1Del Oph	2.7340	3200.0	74	25435	No
9	GOM_NL__2PRFIN20070111_004308_000000432054_00331_25435_0268.N1	11-JAN-2007 00:43:08	Bright	43.000	98	13Zet Oph	2.5710	30000.	86	25435	No
10	GOM_NL__2PRFIN20070111_004619_000000432054_00331_25435_0269.N1	11-JAN-2007 00:46:19	Twilight	43.000	97	8Bet1Sco	2.5610	30000.	86	25435	No
11	GOM_NL__2PRFIN20070111_004735_000000522054_00331_25435_0270.N1	11-JAN-2007 00:47:35	Twilight	52.000	16	21Alp Sco	1.0200	3000.0	104	25435	No
12	GOM_NL__2PRFIN20070111_005416_000000402054_00331_25435_0271.N1	11-JAN-2007 00:54:16	Dark	40.000	109	Bet Lup	2.6770	26000.	80	25435	No
13	GOM_NL__2PRFIN20070111_005547_000000422054_00331_25435_0272.N1	11-JAN-2007 00:55:47	Dark	41.500	78	Alp Lup	2.3040	28000.	83	25435	No
14	GOM_NL__2PRFIN20070111_005836_000000462054_00332_25436_0259.N1	11-JAN-2007 00:58:36	Dark	45.500	4	Alp1Cen	-0.010000	5800.0	91	25436	No
15	GOM_NL__2PRFIN20070111_010608_000000382054_00332_25436_0260.N1	11-JAN-2007 01:06:08	Dark	37.500	124	The Car	2.7640	30000.	75	25436	No
16	GOM_NL__2PRFIN20070111_010742_000000392054_00332_25436_0261.N1	11-JAN-2007 01:07:42	Dark	38.500	29	Bet Car	1.6720	10200.	77	25436	No
17	GOM_NL__2PRFIN20070111_010928_000000472054_00332_25436_0262.N1	11-JAN-2007 01:09:28	Dark	46.500	71	lot Car	2.2460	7700.0	93	25436	No
18	GOM_NL__2PRFIN20070111_011050_000000502054_00332_25436_0263.N1	11-JAN-2007 01:10:50	Dark	50.000	41	Eps Car	1.8600	4100.0	100	25436	No
19	GOM_NL__2PRFIN20070111_011438_000000392054_00332_25436_0264.N1	11-JAN-2007 01:14:38	Dark	39.000	2	Alp Car	-0.73600	7000.0	78	25436	No
20	GOM_NL__2PRFIN20070111_011805_000000452054_00332_25436_0265.N1	11-JAN-2007 01:18:05	Straylight	45.000	117	Pi Pup	2.7060	3800.0	90	25436	No
21	GOM_NL__2PRFIN20070111_012042_000000412054_00332_25436_0266.N1	11-JAN-2007 01:20:42	Straylight	40.500	23	21Eps CMa	1.5020	26000.	81	25436	No
22	GOM_NL__2PRFIN20070111_012209_000000412054_00332_25436_0267.N1	11-JAN-2007 01:22:09	Straylight	41.000	179	24Omi2CMa	3.0320	24000.	82	25436	No
23	GOM_NL__2PRFIN20070111_012426_000000492054_00332_25436_0268.N1	11-JAN-2007 01:24:26	Straylight	49.000	1	9Alp CMa	-1.4400	11000.	98	25436	No
24	GOM_NL__2PRFIN20070111_012654_000000402054_00332_25436_0269.N1	11-JAN-2007 01:26:54	Straylight	39.500	56	53Kap Ori	2.0650	30000.	79	25436	No
25	GOM_NL__2PRFIN20070111_012921_000000422054_00332_25436_0270.N1	11-JAN-2007 01:29:21	Twilight	41.500	30	46Eps Ori	1.6940	30000.	83	25436	No
26	GOM_NL__2PRFIN20070111_013139_000000522054_00332_25436_0271.N1	11-JAN-2007 01:31:39	Twilight	52.000	14	58Alp Ori	0.87000	3000.0	104	25436	No
27	GOM_NL__2PRFIN20070111_013536_000000362054_00332_25436_0272.N1	11-JAN-2007 01:35:36	Bright	35.500	176	23Zet Tau	3.0200	22000.	71	25436	No
28	GOM_NL__2PRFIN20070111_013744_000000372054_00332_25436_0273.N1	11-JAN-2007 01:37:44	Bright	36.500	28	12Bet Tau	1.6500	15200.	73	25436	No
29	GOM_NL__2PRFIN20070111_013913_000000382054_00332_25436_0274.N1	11-JAN-2007 01:39:13	Bright	38.000	114	3lot Aur	2.6930	4600.0	76	25436	No
30	GOM_NL__2PRFIN20070111_014222_000000362054_00332_25436_0275.N1	11-JAN-2007 01:42:22	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	25436	No
31	GOM_NL__2PRFIN20070111_015450_000000362054_00332_25436_0276.N1	11-JAN-2007 01:54:50	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	25436	No
32	GOM_NL__2PRFIN20070111_015900_000000402054_00332_25436_0277.N1	11-JAN-2007 01:59:00	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	25436	No
33	GOM_NL__2PRFIN20070111_020310_000000352054_00332_25436_0278.N1	11-JAN-2007 02:03:10	Bright	35.000	119	14Eta Dra	2.7270	4700.0	70	25436	No
34	GOM_NL__2PRFIN20070111_020536_000000342054_00332_25436_0279.N1	11-JAN-2007 02:05:36	Bright	34.000	130	23Bet Dra	2.7990	5800.0	68	25436	No
35	GOM_NL__2PRFIN20070111_021150_000000352054_00332_25436_0280.N1	11-JAN-2007 02:11:50	Bright	34.500	133	40Zet Her	2.8070	6000.0	69	25436	No
36	GOM_NL__2PRFIN20070111_021452_000000352054_00332_25436_0281.N1	11-JAN-2007 02:14:52	Bright	35.000	127	27Bet Her	2.7810	4700.0	70	25436	No
37	GOM_NL__2PRFIN20070111_022218_000000542054_00332_25436_0282.N1	11-JAN-2007 02:22:18	Bright	54.000	120	1Del Oph	2.7340	3200.0	108	25436	No
38	GOM_NL__2PRFIN20070111_022345_000000342054_00332_25436_0283.N1	11-JAN-2007 02:23:45	Bright	34.000	98	13Zet Oph	2.5710	30000.	68	25436	No
39	GOM_NL__2PRFIN20070111_022655_000000422054_00332_25436_0284.N1	11-JAN-2007 02:26:55	Twilight	41.500	97	8Bet1Sco	2.5610	30000.	83	25436	No
40	GOM_NL__2PRFIN20070111_022811_000000452054_00332_25436_0285.N1	11-JAN-2007 02:28:11	Twilight	45.000	16	21Alp Sco	1.0200	3000.0	90	25436	No
41	GOM_NL__2PRFIN20070111_023453_000000392054_00332_25436_0286.N1	11-JAN-2007 02:34:53	Dark	39.000	109	Bet Lup	2.6770	26000.	78	25436	No
42	GOM_NL__2PRFIN20070111_023623_000000392054_00332_25436_0287.N1	11-JAN-2007 02:36:23	Dark	39.000	78	Alp Lup	2.3040	28000.	78	25436	No

397	GOM_NL__2PRFIN20070111_224342_000000392054_00344_25448_0487.N1	11-JAN-2007 22:43:42	Dark	39.000	78	Alp Lup	2.3040	28000.	78	25448	No
398	GOM_NL__2PRFIN20070111_224628_000000512054_00345_25449_0473.N1	11-JAN-2007 22:46:28	Dark	51.000	4	Alp1Cen	-0.010000	5800.0	102	25449	No
399	GOM_NL__2PRFIN20070111_225402_000000382054_00345_25449_0474.N1	11-JAN-2007 22:54:02	Dark	38.000	124	The Car	2.7640	30000.	76	25449	No
400	GOM_NL__2PRFIN20070111_225533_000000382054_00345_25449_0475.N1	11-JAN-2007 22:55:33	Dark	38.000	29	Bet Car	1.6720	10200.	76	25449	No
401	GOM_NL__2PRFIN20070111_225721_000000402054_00345_25449_0476.N1	11-JAN-2007 22:57:21	Dark	40.000	71	lot Car	2.2460	7700.0	80	25449	No
402	GOM_NL__2PRFIN20070111_225841_000000462054_00345_25449_0477.N1	11-JAN-2007 22:58:41	Dark	45.500	41	Eps Car	1.8600	4100.0	91	25449	No
403	GOM_NL__2PRFIN20070111_230227_000000492054_00345_25449_0478.N1	11-JAN-2007 23:02:27	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	25449	No
404	GOM_NL__2PRFIN20070111_230409_000000372054_00345_25449_0479.N1	11-JAN-2007 23:04:09	Dark	37.000	70	Zet Pup	2.2460	39000.	74	25449	No
405	GOM_NL__2PRFIN20070111_230555_000000432054_00345_25449_0480.N1	11-JAN-2007 23:05:55	Straylight	42.500	117	Pi Pup	2.7060	3800.0	85	25449	No
406	GOM_NL__2PRFIN20070111_230831_000000402054_00345_25449_0481.N1	11-JAN-2007 23:08:31	Straylight	40.000	23	21Eps CMa	1.5020	26000.	80	25449	No
407	GOM_NL__2PRFIN20070111_230958_000000422054_00345_25449_0482.N1	11-JAN-2007 23:09:58	Straylight	42.000	179	24Omi2CMa	3.0320	24000.	84	25449	No
408	GOM_NL__2PRFIN20070111_231214_000000462054_00345_25449_0483.N1	11-JAN-2007 23:12:14	Straylight	46.000	1	9Alp CMa	-1.4400	11000.	92	25449	No
409	GOM_NL__2PRFIN20070111_231443_000000412054_00345_25449_0484.N1	11-JAN-2007 23:14:43	Straylight	40.500	56	53Kap Ori	2.0650	30000.	81	25449	No
410	GOM_NL__2PRFIN20070111_231552_000000382054_00345_25449_0485.N1	11-JAN-2007 23:15:52	Straylight	38.000	125	44lot Ori	2.7700	30000.	76	25449	No
411	GOM_NL__2PRFIN20070111_231710_000000412054_00345_25449_0486.N1	11-JAN-2007 23:17:10	Twilight_stray	40.500	30	46Eps Ori	1.6940	30000.	81	25449	No
412	GOM_NL__2PRFIN20070111_231927_000000522054_00345_25449_0487.N1	11-JAN-2007 23:19:27	Twilight_stray	52.000	14	58Alp Ori	0.87000	3000.0	104	25449	No
413	GOM_NL__2PRFIN20070111_232323_000000352054_00345_25449_0488.N1	11-JAN-2007 23:23:23	Bright	35.000	176	23Zet Tau	3.0200	22000.	70	25449	No
414	GOM_NL__2PRFIN20070111_232532_000000382054_00345_25449_0489.N1	11-JAN-2007 23:25:32	Bright	37.500	28	12Bet Tau	1.6500	15200.	75	25449	No
415	GOM_NL__2PRFIN20070111_232702_000000362054_00345_25449_0490.N1	11-JAN-2007 23:27:02	Bright	35.500	114	3lot Aur	2.6930	4600.0	71	25449	No
416	GOM_NL__2PRFIN20070111_233008_000000362054_00345_25449_0491.N1	11-JAN-2007 23:30:08	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	25449	No
417	GOM_NL__2PRFIN20070111_234237_000000332054_00345_25449_0492.N1	11-JAN-2007 23:42:37	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	25449	No
418	GOM_NL__2PRFIN20070111_234645_000000342054_00345_25449_0493.N1	11-JAN-2007 23:46:45	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	25449	No
419	GOM_NL__2PRFIN20070111_235057_000000362054_00345_25449_0494.N1	11-JAN-2007 23:50:57	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	25449	No
420	GOM_NL__2PRFIN20070111_235324_000000342054_00345_25449_0495.N1	11-JAN-2007 23:53:24	Bright	34.000	130	23Bet Dra	2.7990	5800.0	68	25449	No
421	GOM_NL__2PRFIN20070111_235939_000000352054_00345_25449_0496.N1	11-JAN-2007 23:59:39	Bright	35.000	133	40Zet Her	2.8070	6000.0	70	25449	No

3. Quality information per product

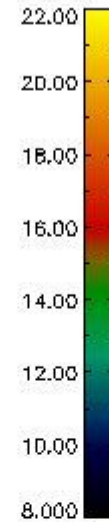
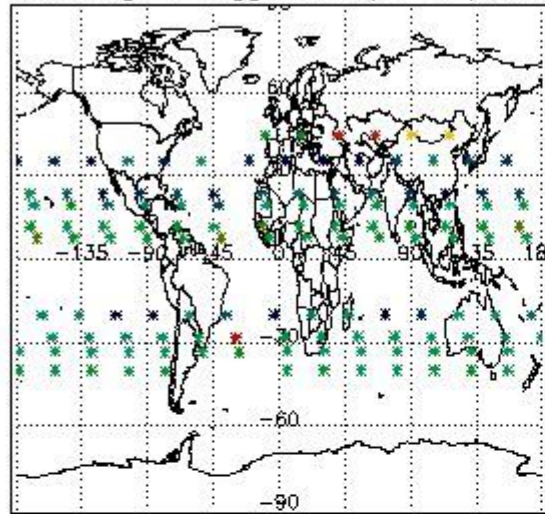
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

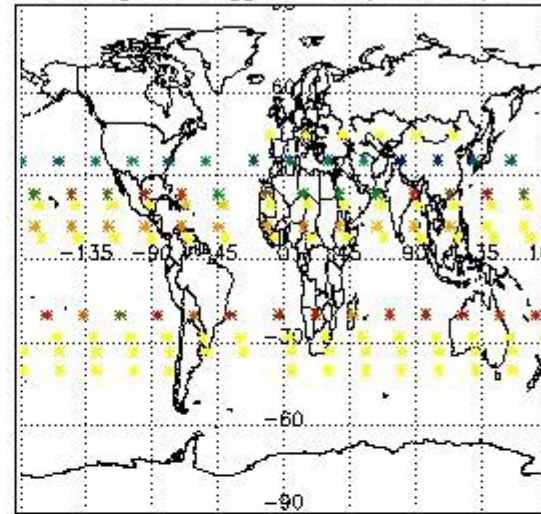


3.2 Plot quality information per product (world map)

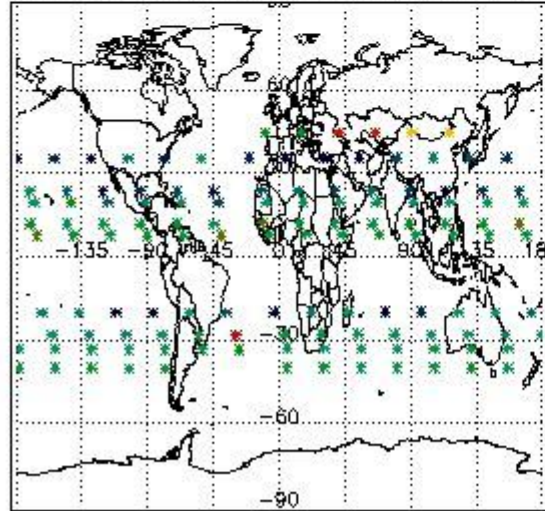
Percentage of flagged data per O3 profile



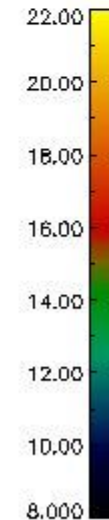
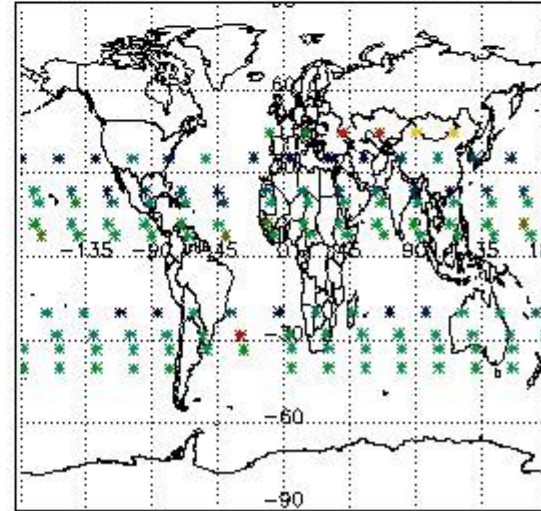
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

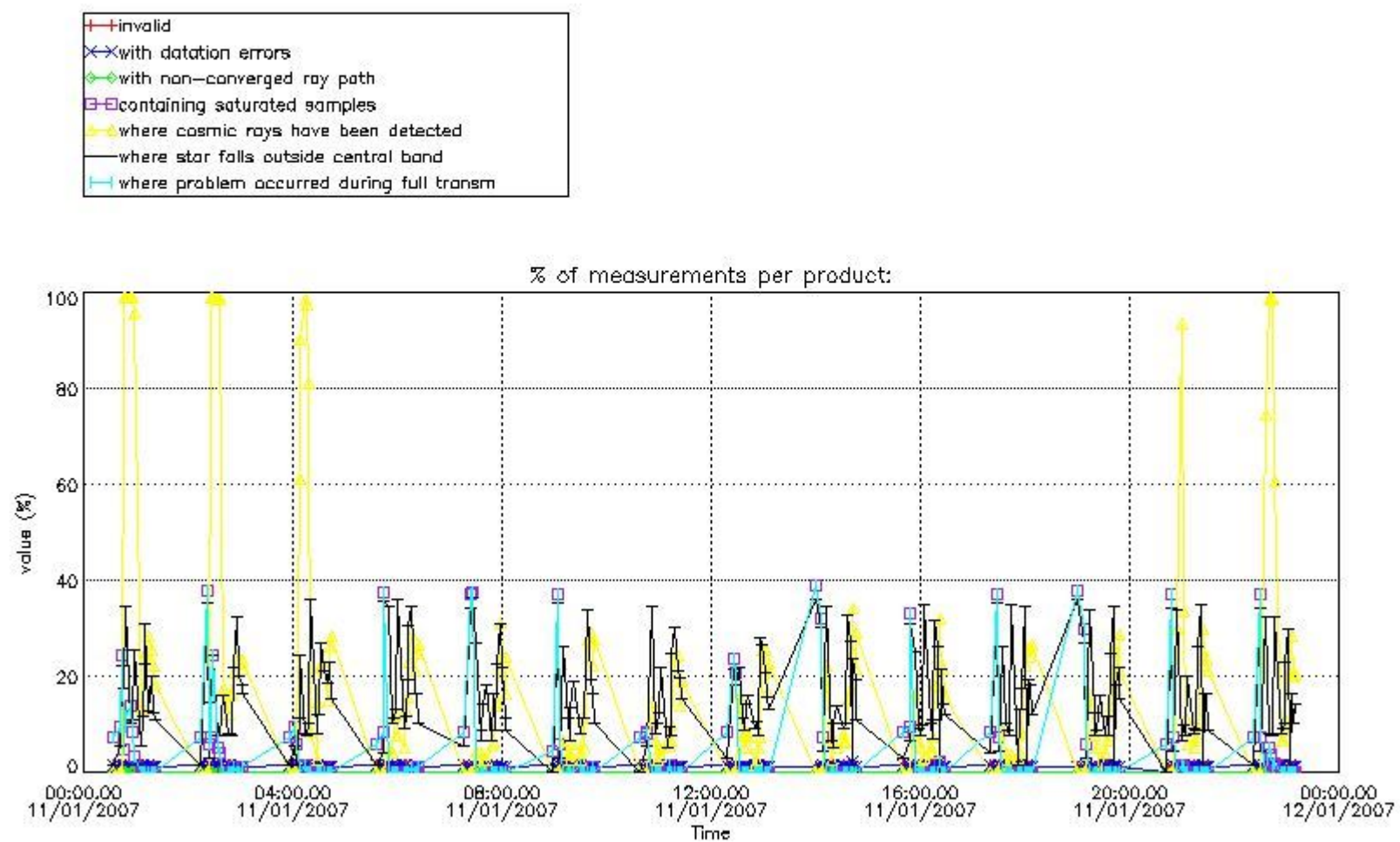


4. Level 1 quality information per product

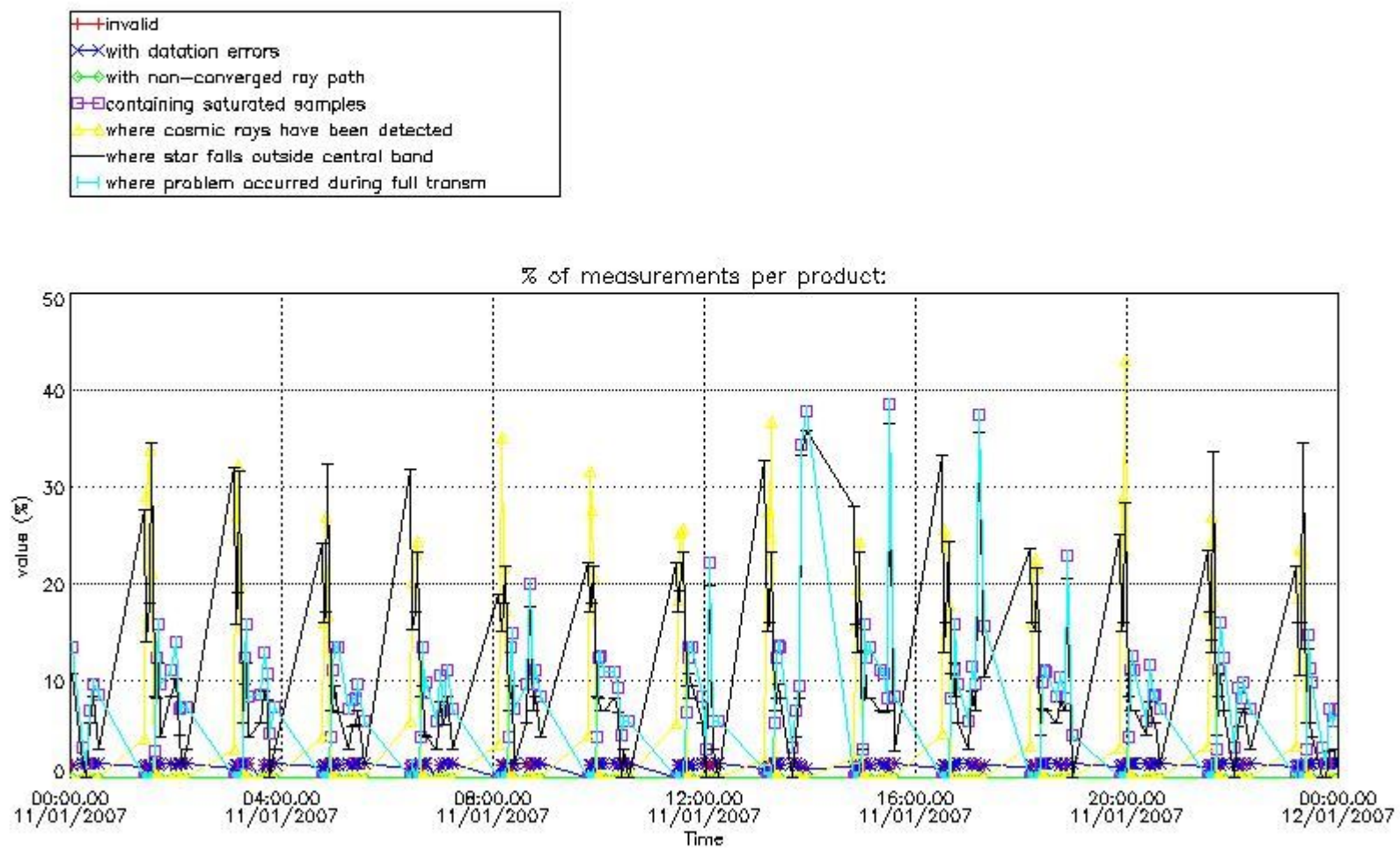
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

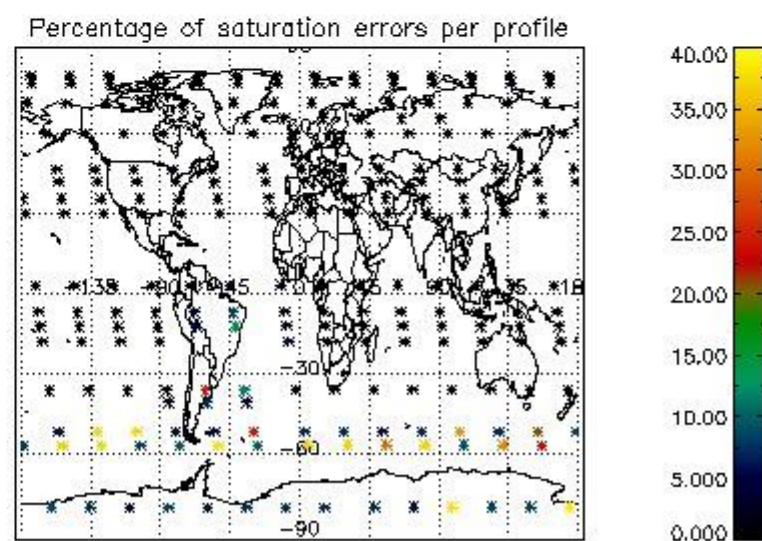
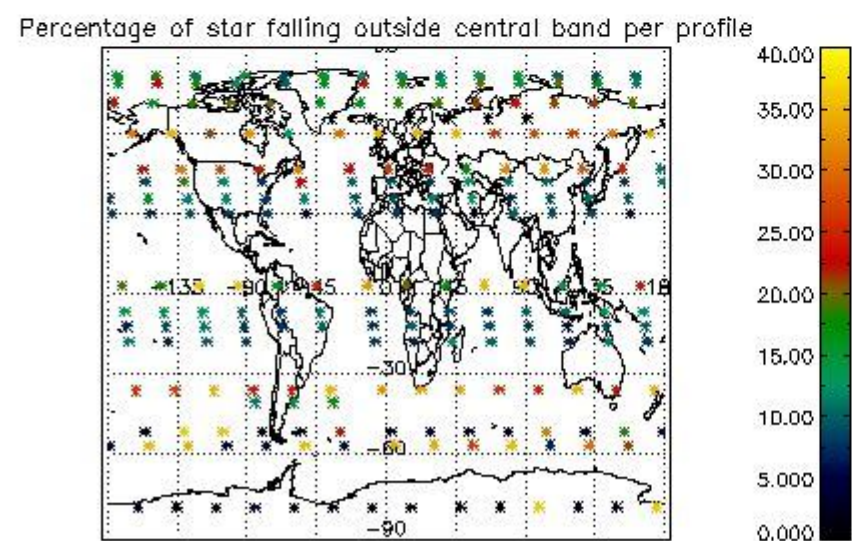
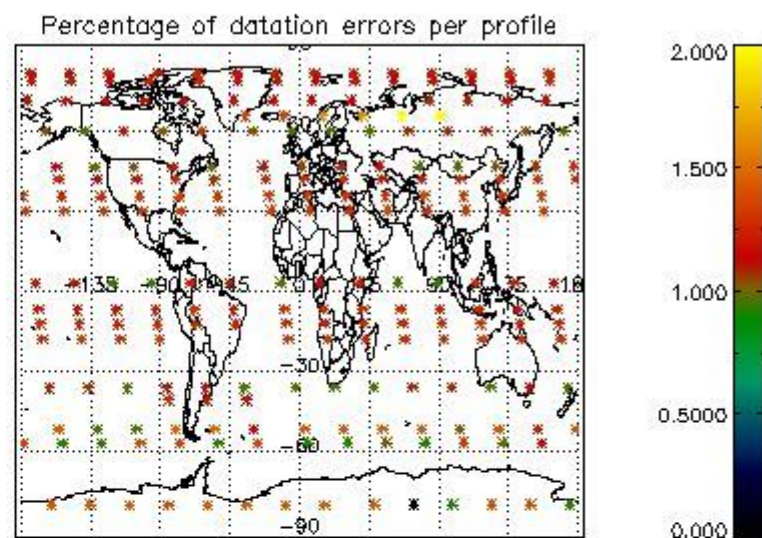
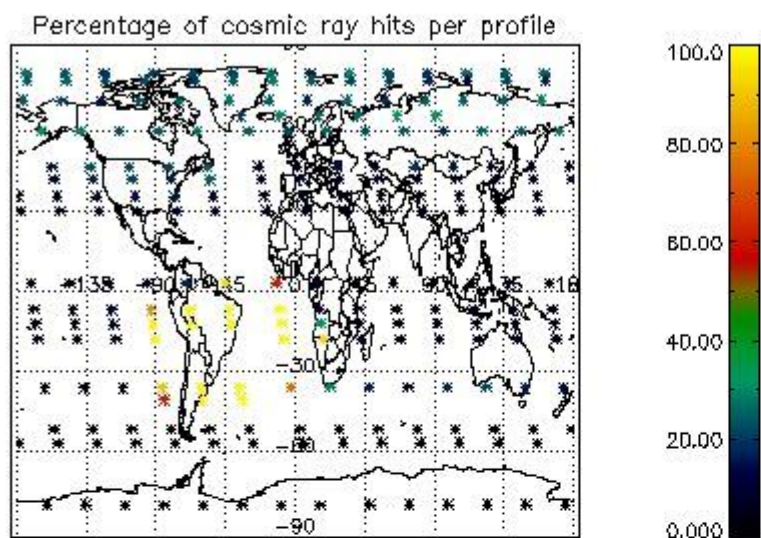


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

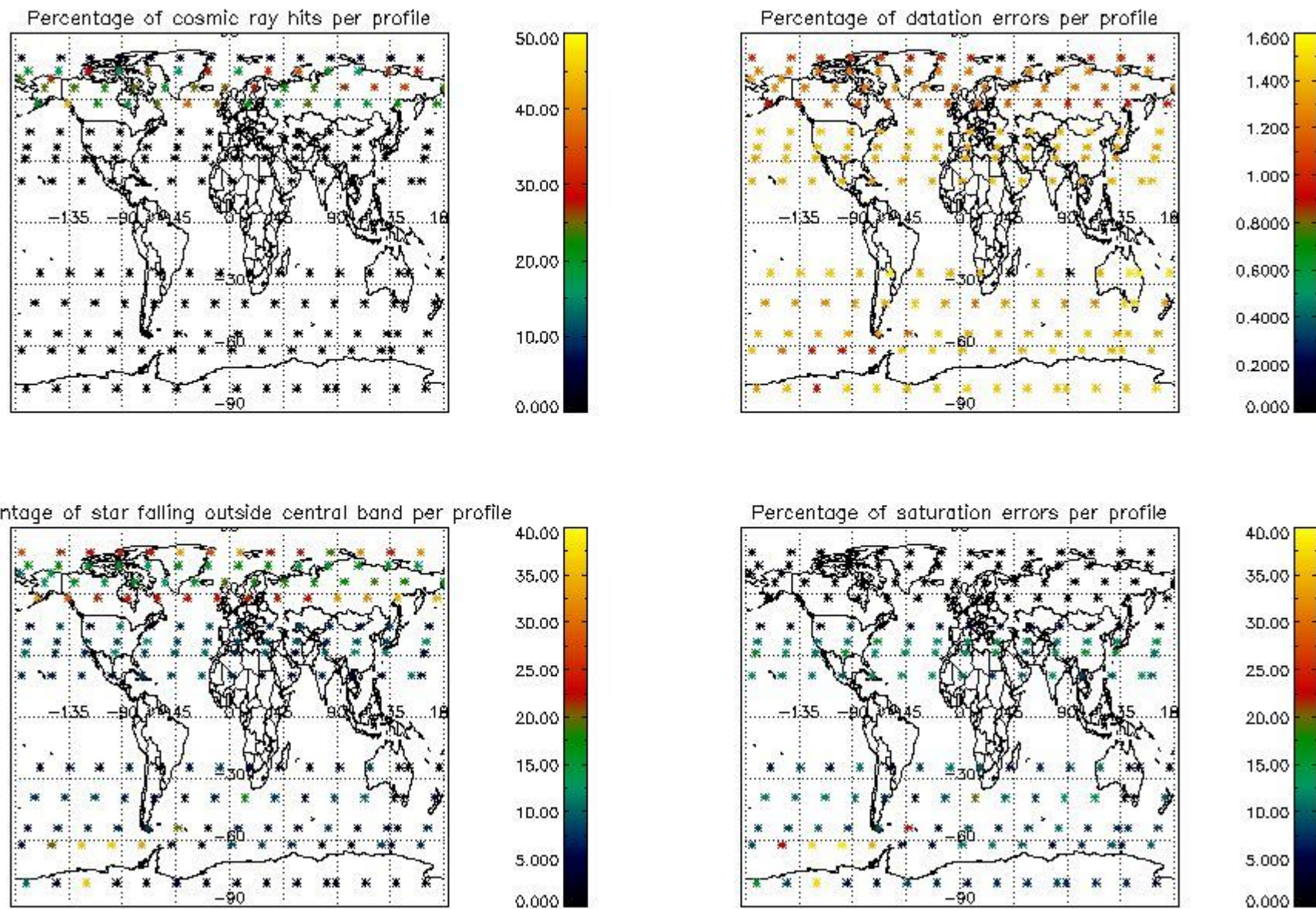


4.2 Plot quality information per product coming from level 1b processing (world map)

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

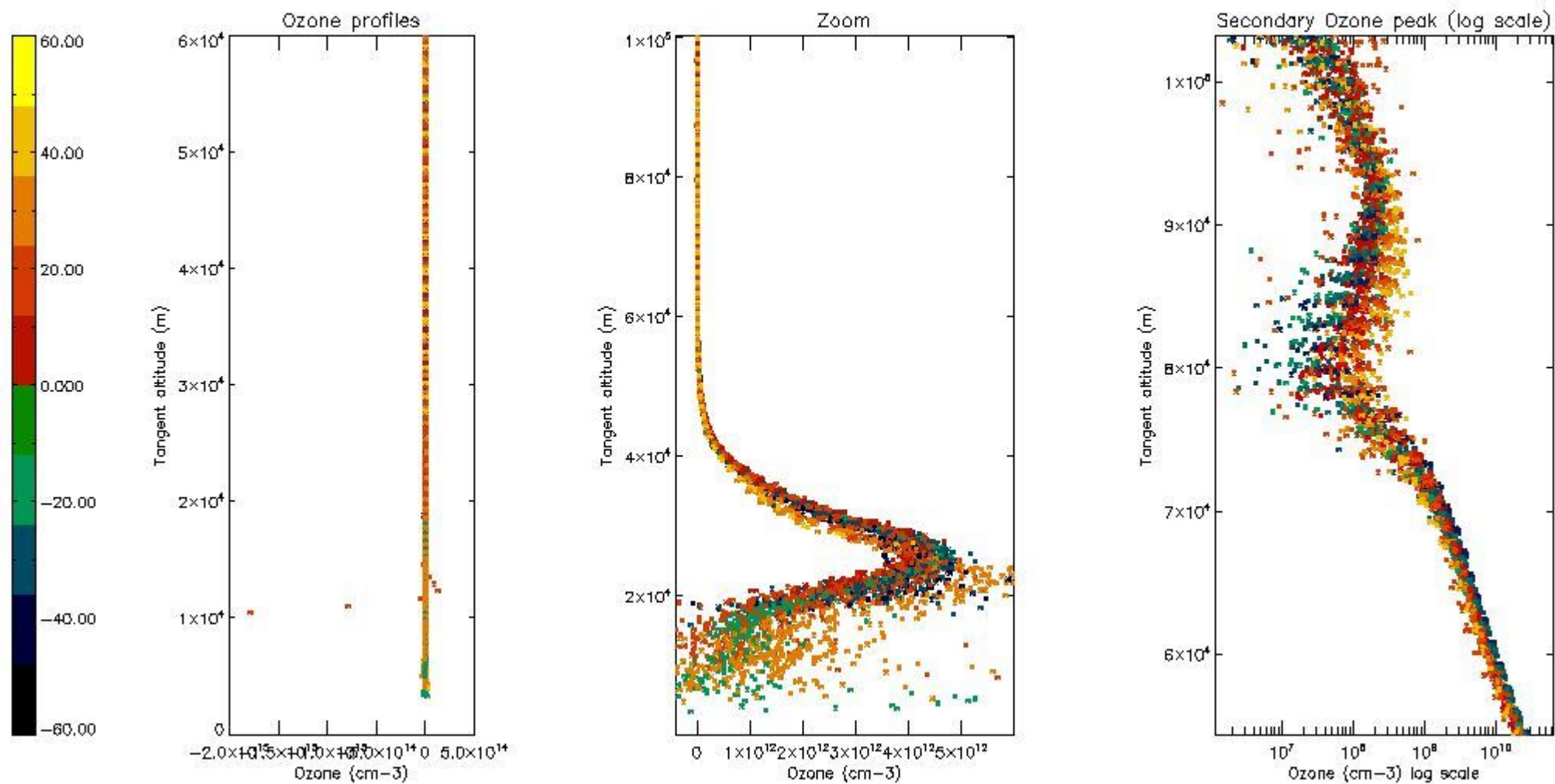
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	32
STD < 20	19

STD < 10	16
STD < 5	10

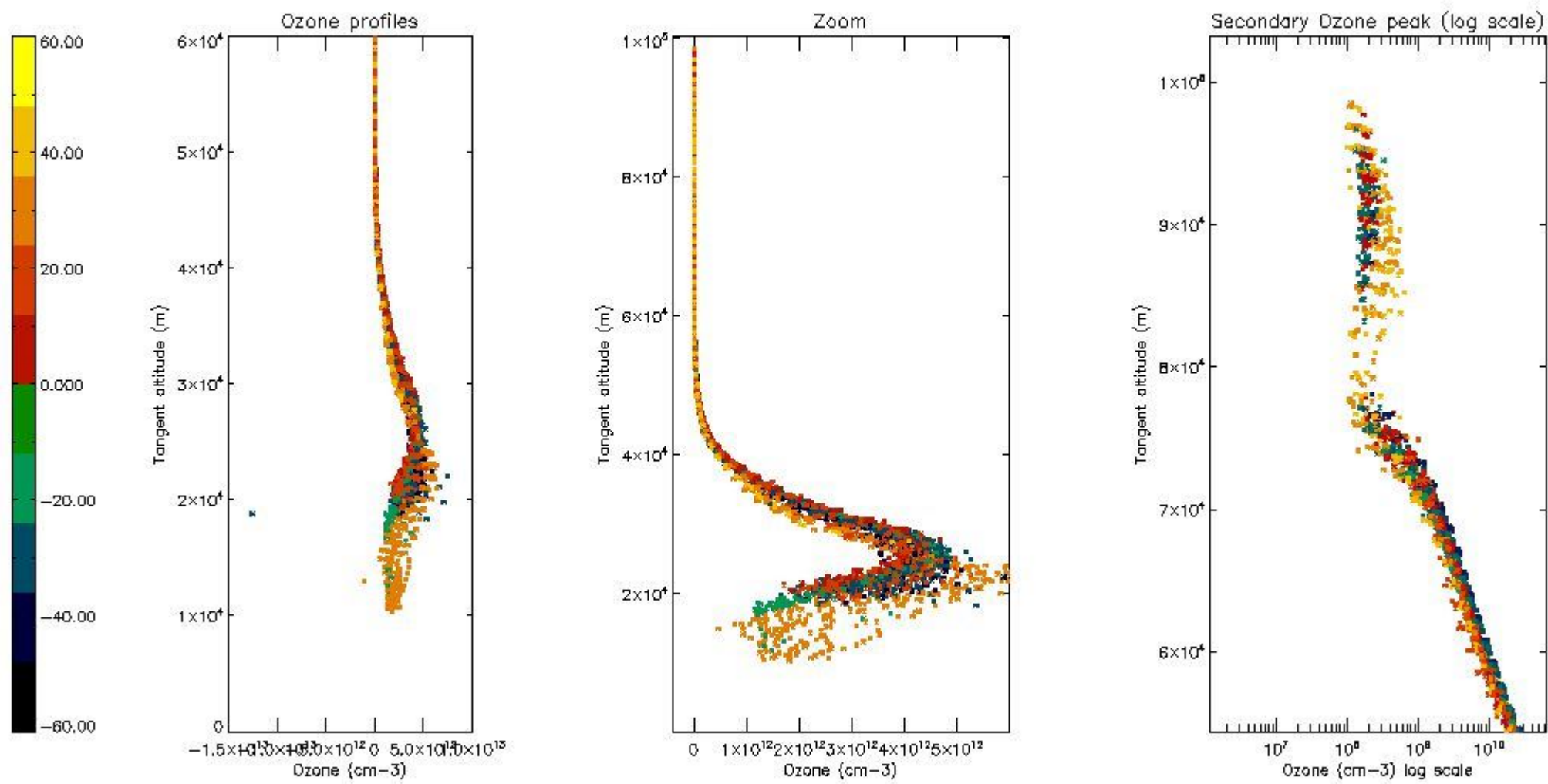
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



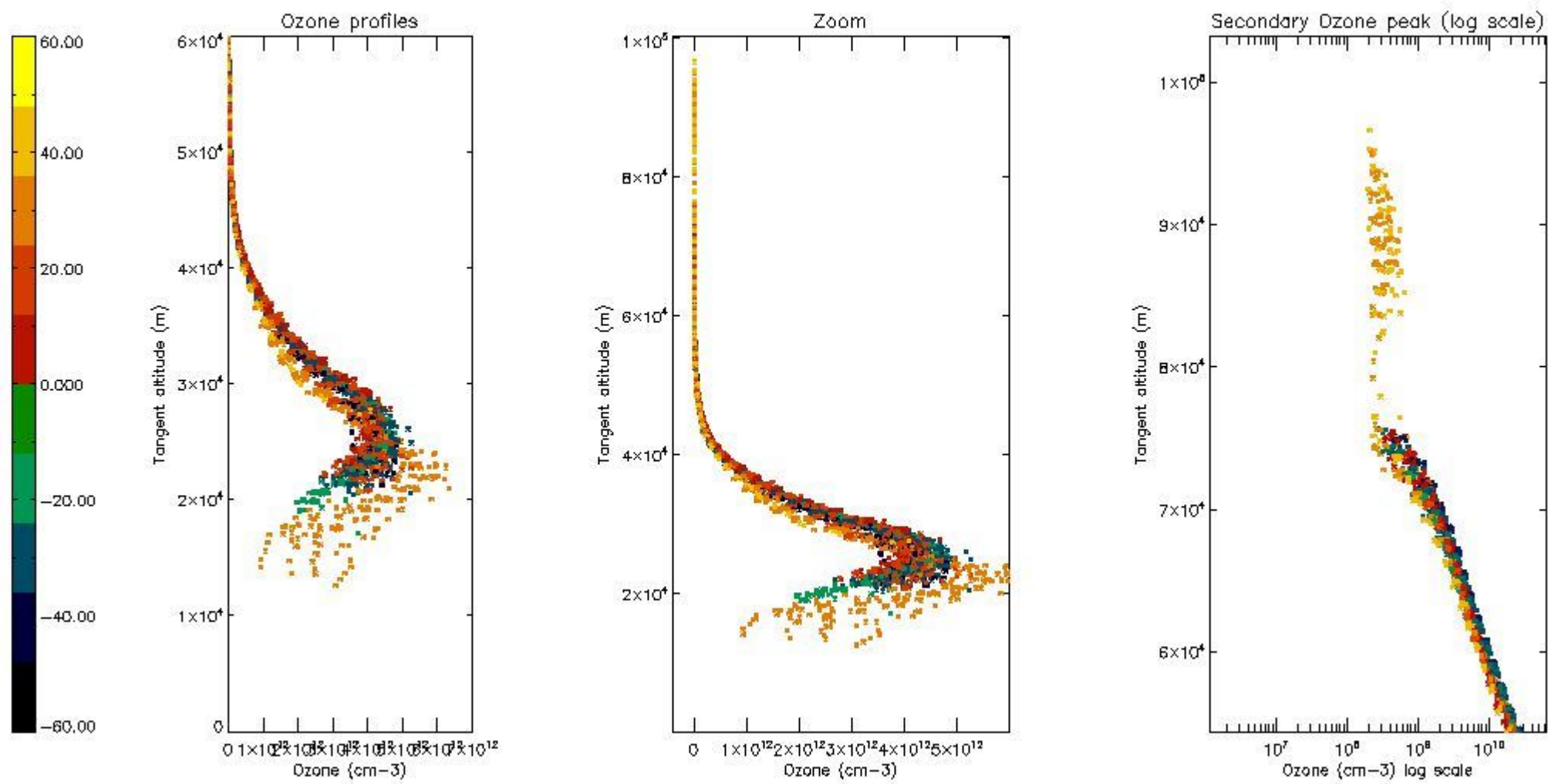
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



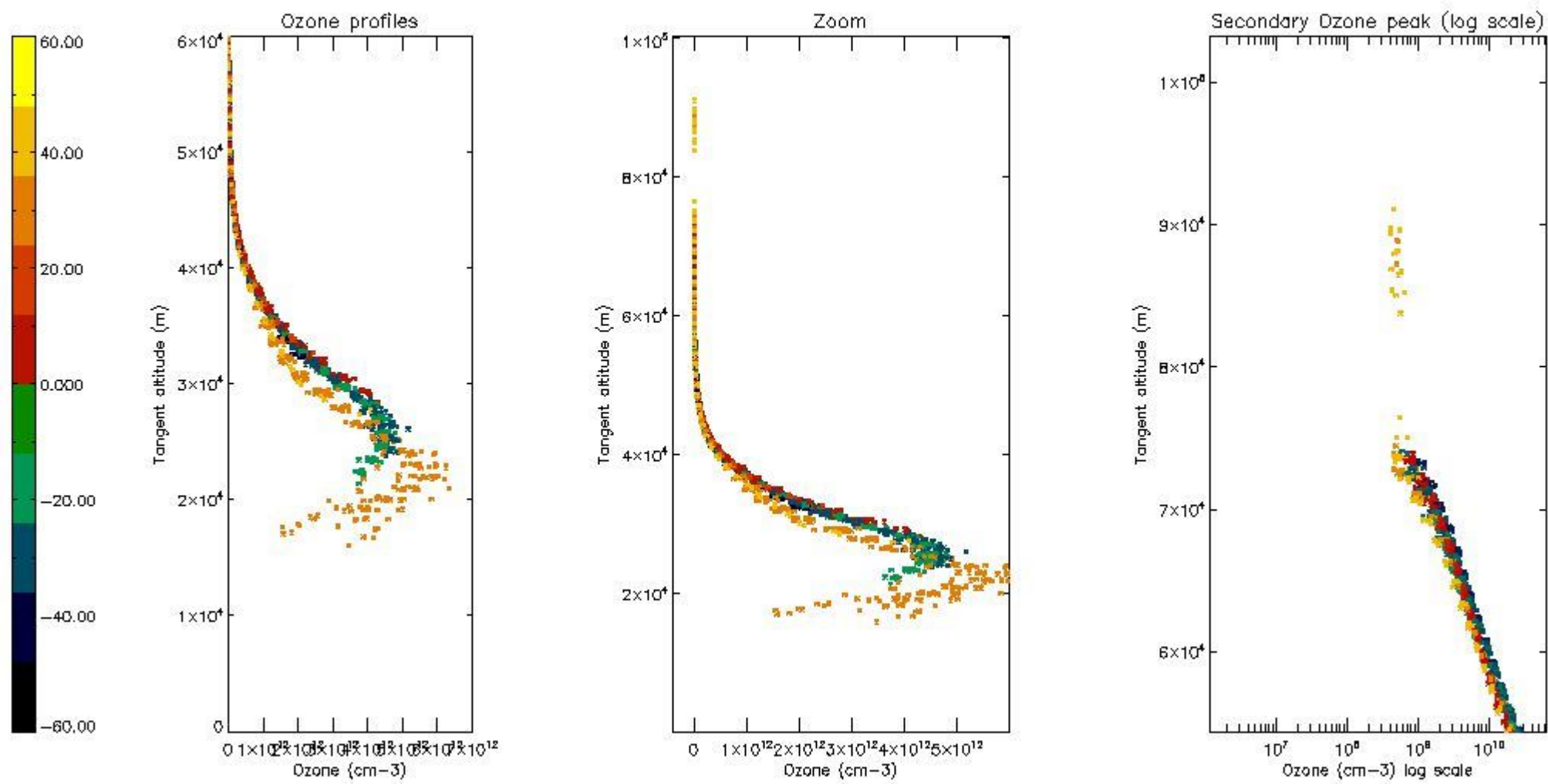
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



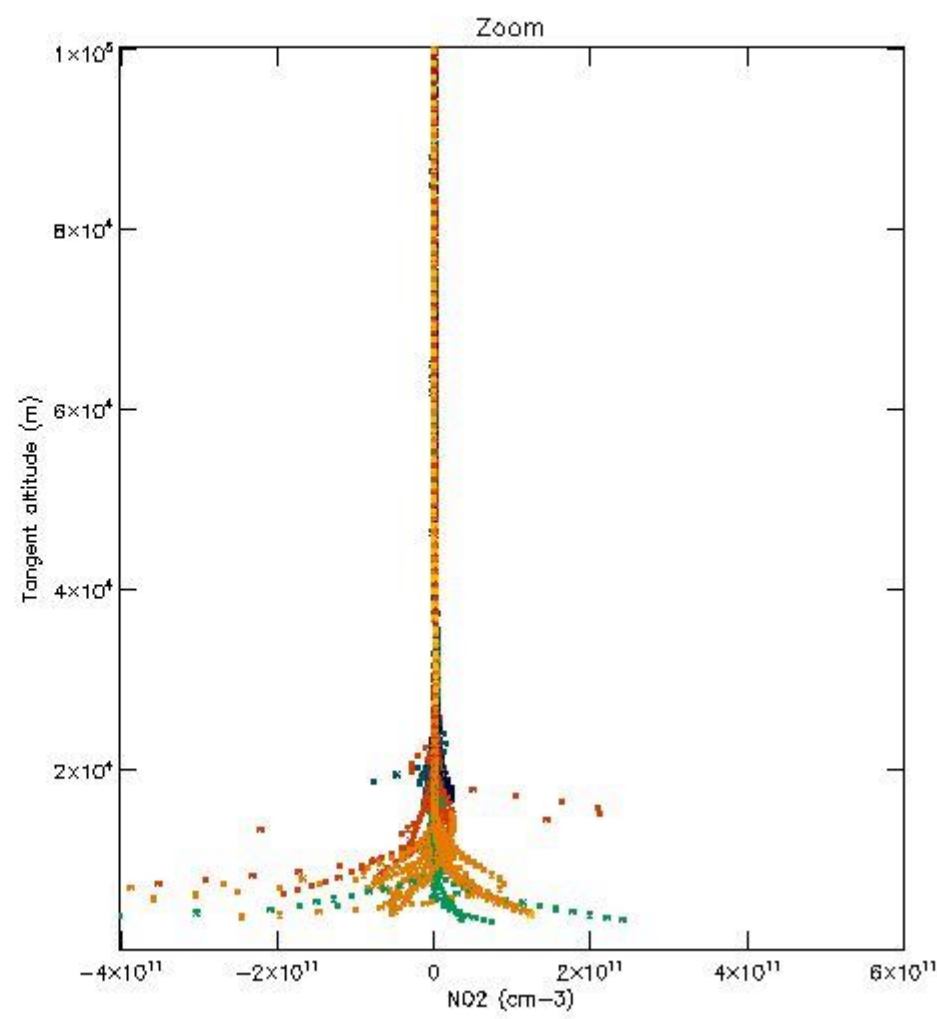
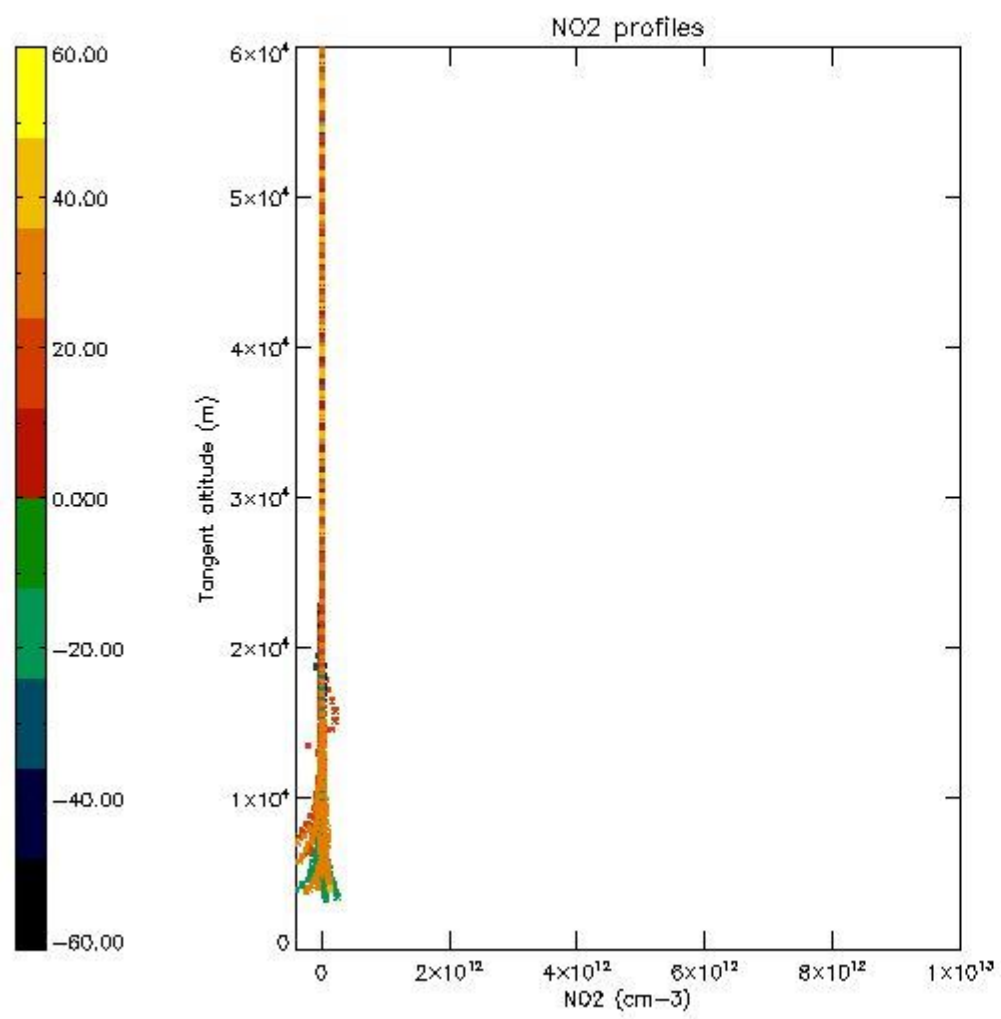
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



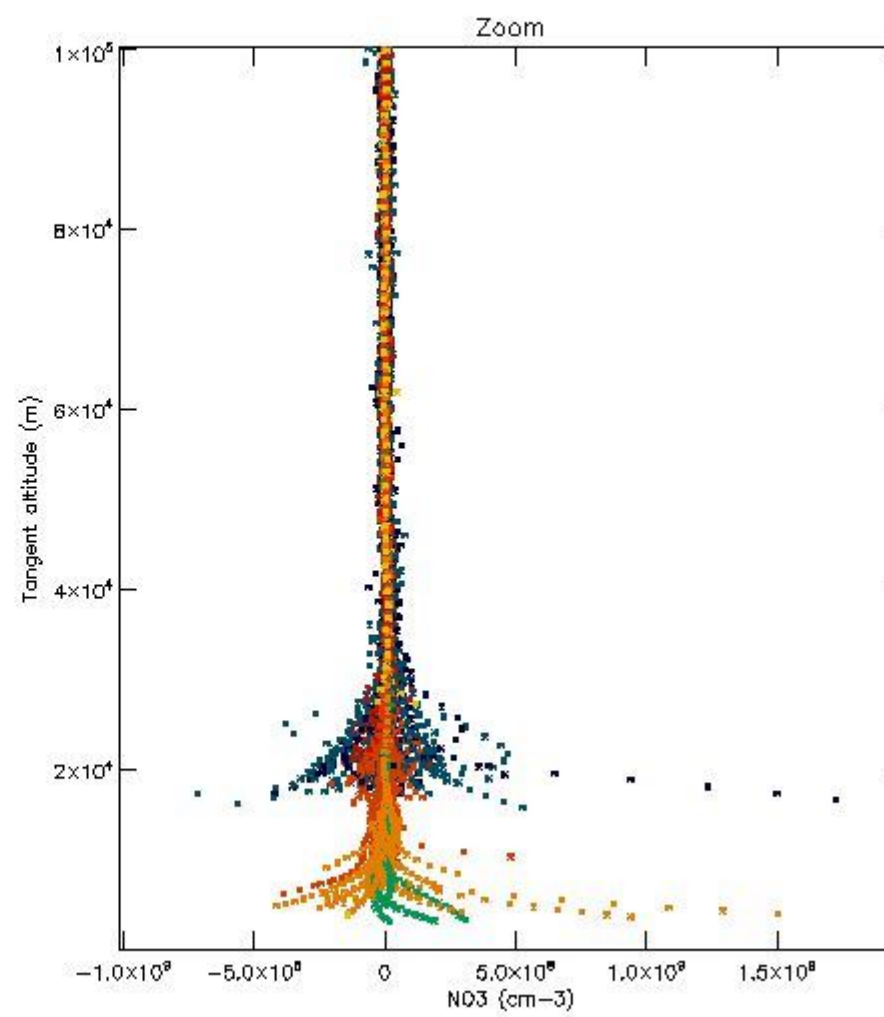
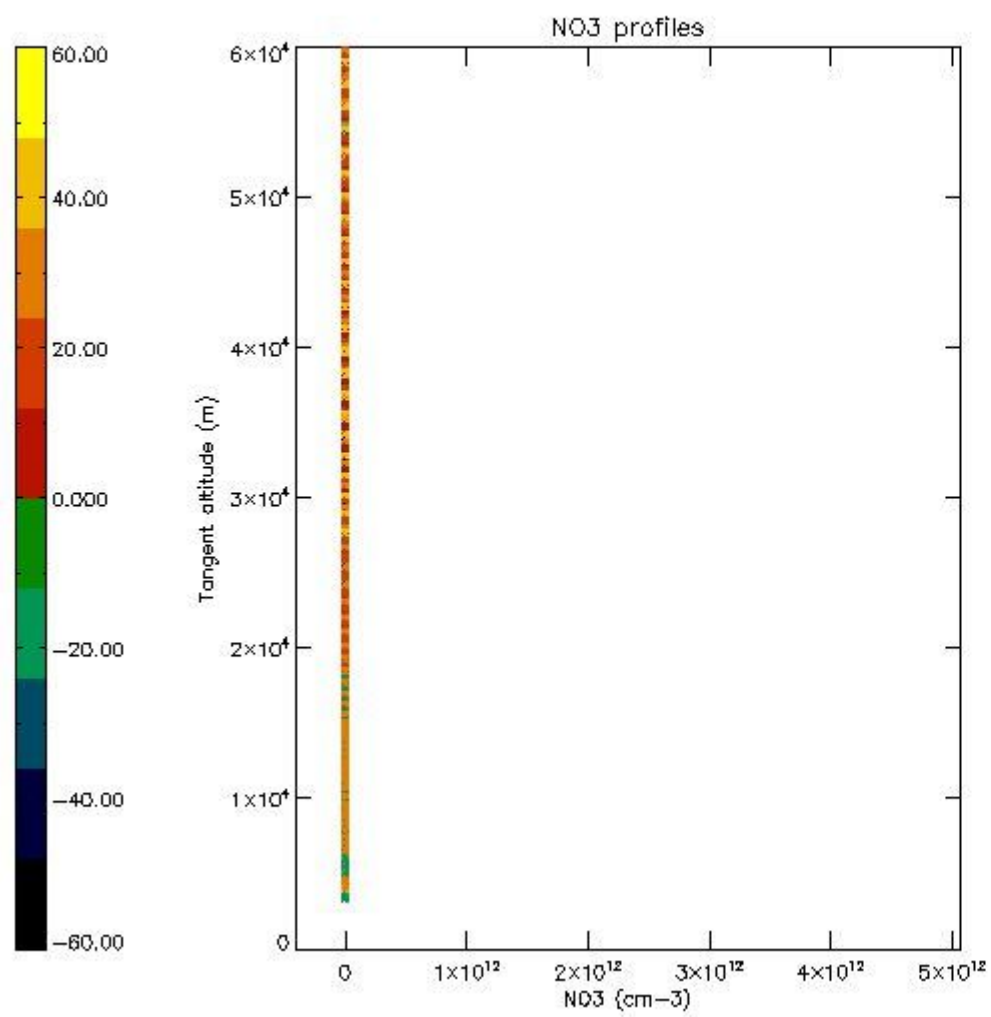
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



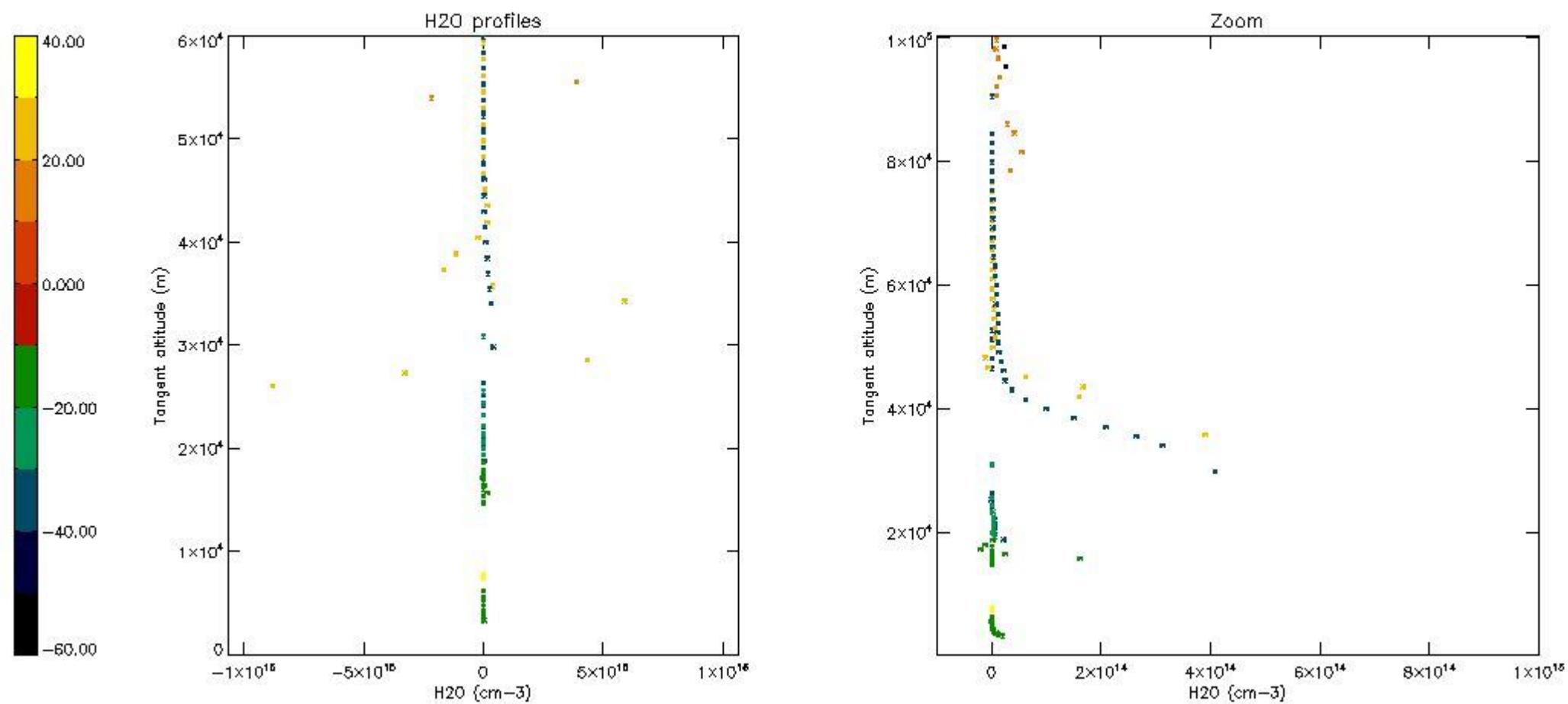
5.7 Plot NO3 profiles for all STD (dark without errors)

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-JAN-2007 00:01:47
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	11-JAN-2007 00:01:47
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	11-JAN-2007 00:01:47

GOMOS Level 2 Daily Report

SUMMARY

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[5.8 Plot H2O profiles \(only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors\) for all STD](#)

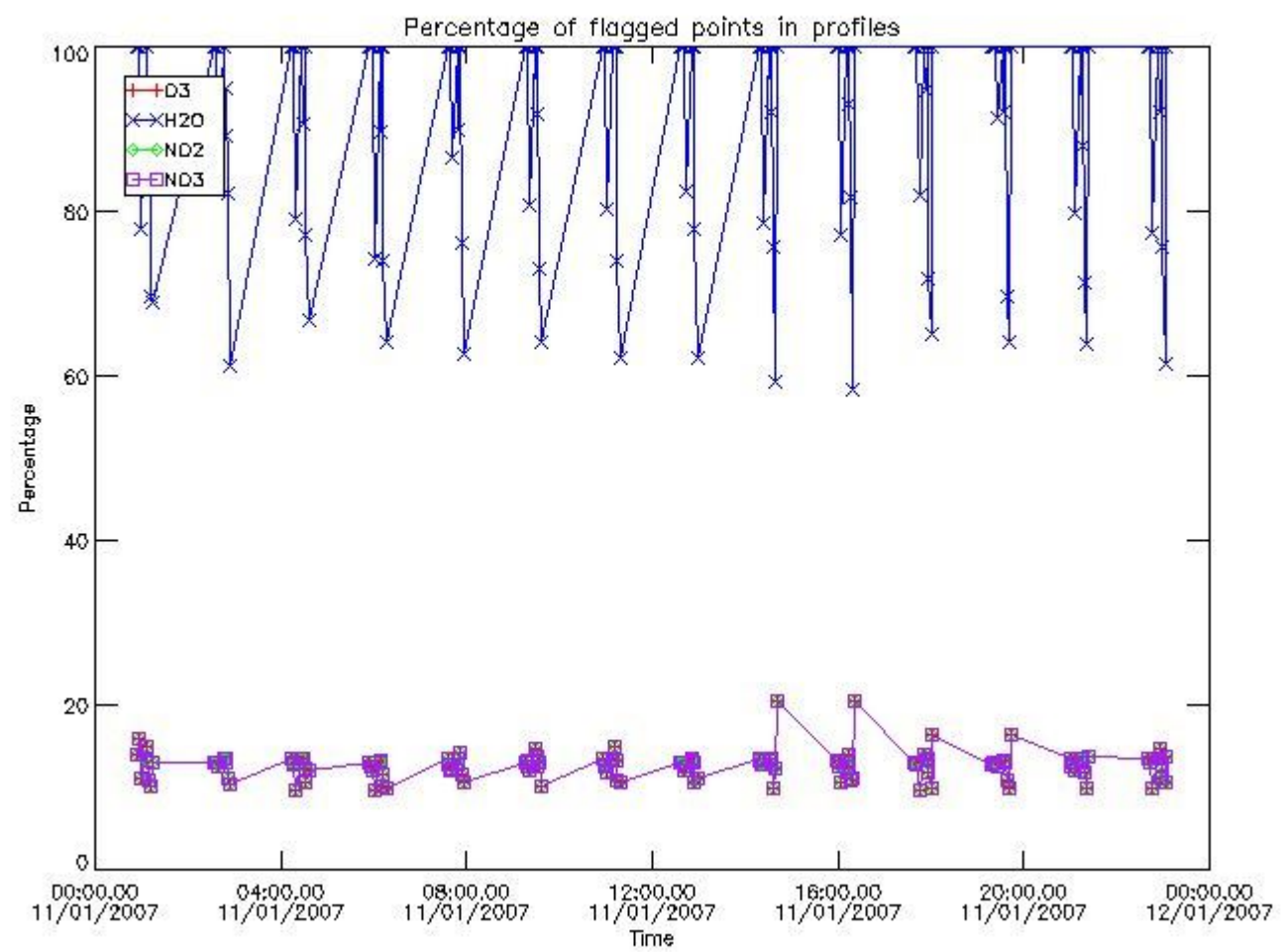
[6. Auxiliary Data Files used for the production reported in section 2](#)

397	GOM_NL__2PRFIN20070111_224342_000000392054_00344_25448_0487.N1	11-JAN-2007 22:43:42	Dark	39.000	78	Alp Lup	2.3040	28000.	78	25448	No
398	GOM_NL__2PRFIN20070111_224628_000000512054_00345_25449_0473.N1	11-JAN-2007 22:46:28	Dark	51.000	4	Alp1Cen	-0.010000	5800.0	102	25449	No
399	GOM_NL__2PRFIN20070111_225402_000000382054_00345_25449_0474.N1	11-JAN-2007 22:54:02	Dark	38.000	124	The Car	2.7640	30000.	76	25449	No
400	GOM_NL__2PRFIN20070111_225533_000000382054_00345_25449_0475.N1	11-JAN-2007 22:55:33	Dark	38.000	29	Bet Car	1.6720	10200.	76	25449	No
401	GOM_NL__2PRFIN20070111_225721_000000402054_00345_25449_0476.N1	11-JAN-2007 22:57:21	Dark	40.000	71	lot Car	2.2460	7700.0	80	25449	No
402	GOM_NL__2PRFIN20070111_225841_000000462054_00345_25449_0477.N1	11-JAN-2007 22:58:41	Dark	45.500	41	Eps Car	1.8600	4100.0	91	25449	No
403	GOM_NL__2PRFIN20070111_230227_000000492054_00345_25449_0478.N1	11-JAN-2007 23:02:27	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	25449	No
404	GOM_NL__2PRFIN20070111_230409_000000372054_00345_25449_0479.N1	11-JAN-2007 23:04:09	Dark	37.000	70	Zet Pup	2.2460	39000.	74	25449	No
405	GOM_NL__2PRFIN20070111_230555_000000432054_00345_25449_0480.N1	11-JAN-2007 23:05:55	Straylight	42.500	117	Pi Pup	2.7060	3800.0	85	25449	No
406	GOM_NL__2PRFIN20070111_230831_000000402054_00345_25449_0481.N1	11-JAN-2007 23:08:31	Straylight	40.000	23	21Eps CMa	1.5020	26000.	80	25449	No
407	GOM_NL__2PRFIN20070111_230958_000000422054_00345_25449_0482.N1	11-JAN-2007 23:09:58	Straylight	42.000	179	24Omi2CMa	3.0320	24000.	84	25449	No
408	GOM_NL__2PRFIN20070111_231214_000000462054_00345_25449_0483.N1	11-JAN-2007 23:12:14	Straylight	46.000	1	9Alp CMa	-1.4400	11000.	92	25449	No
409	GOM_NL__2PRFIN20070111_231443_000000412054_00345_25449_0484.N1	11-JAN-2007 23:14:43	Straylight	40.500	56	53Kap Ori	2.0650	30000.	81	25449	No
410	GOM_NL__2PRFIN20070111_231552_000000382054_00345_25449_0485.N1	11-JAN-2007 23:15:52	Straylight	38.000	125	44lot Ori	2.7700	30000.	76	25449	No
411	GOM_NL__2PRFIN20070111_231710_000000412054_00345_25449_0486.N1	11-JAN-2007 23:17:10	Twilight_stray	40.500	30	46Eps Ori	1.6940	30000.	81	25449	No
412	GOM_NL__2PRFIN20070111_231927_000000522054_00345_25449_0487.N1	11-JAN-2007 23:19:27	Twilight_stray	52.000	14	58Alp Ori	0.87000	3000.0	104	25449	No
413	GOM_NL__2PRFIN20070111_232323_000000352054_00345_25449_0488.N1	11-JAN-2007 23:23:23	Bright	35.000	176	23Zet Tau	3.0200	22000.	70	25449	No
414	GOM_NL__2PRFIN20070111_232532_000000382054_00345_25449_0489.N1	11-JAN-2007 23:25:32	Bright	37.500	28	12Bet Tau	1.6500	15200.	75	25449	No
415	GOM_NL__2PRFIN20070111_232702_000000362054_00345_25449_0490.N1	11-JAN-2007 23:27:02	Bright	35.500	114	3lot Aur	2.6930	4600.0	71	25449	No
416	GOM_NL__2PRFIN20070111_233008_000000362054_00345_25449_0491.N1	11-JAN-2007 23:30:08	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	25449	No
417	GOM_NL__2PRFIN20070111_234237_000000332054_00345_25449_0492.N1	11-JAN-2007 23:42:37	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	25449	No
418	GOM_NL__2PRFIN20070111_234645_000000342054_00345_25449_0493.N1	11-JAN-2007 23:46:45	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	25449	No
419	GOM_NL__2PRFIN20070111_235057_000000362054_00345_25449_0494.N1	11-JAN-2007 23:50:57	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	25449	No
420	GOM_NL__2PRFIN20070111_235324_000000342054_00345_25449_0495.N1	11-JAN-2007 23:53:24	Bright	34.000	130	23Bet Dra	2.7990	5800.0	68	25449	No
421	GOM_NL__2PRFIN20070111_235939_000000352054_00345_25449_0496.N1	11-JAN-2007 23:59:39	Bright	35.000	133	40Zet Her	2.8070	6000.0	70	25449	No

3. Quality information per product

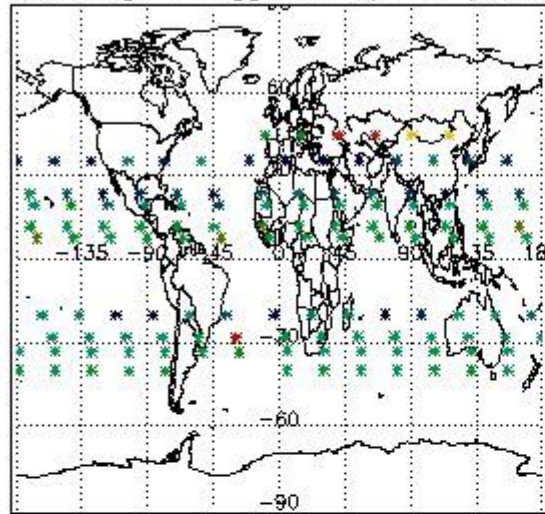
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

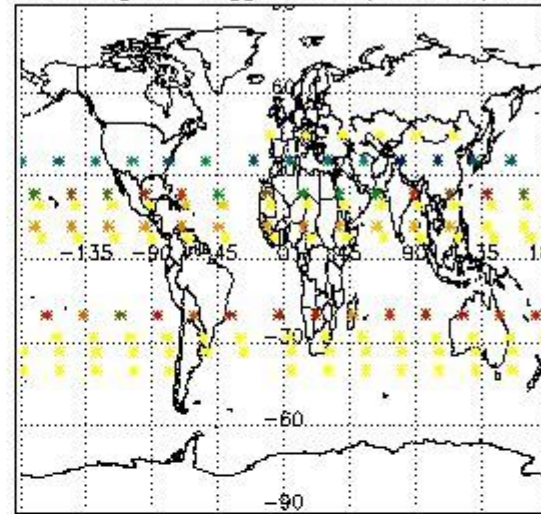


3.2 Plot quality information per product (world map)

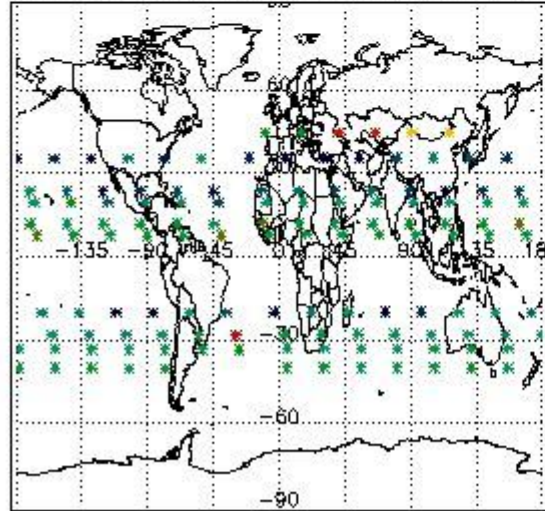
Percentage of flagged data per O3 profile



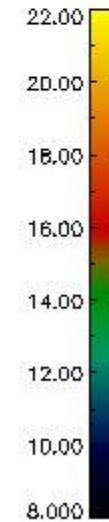
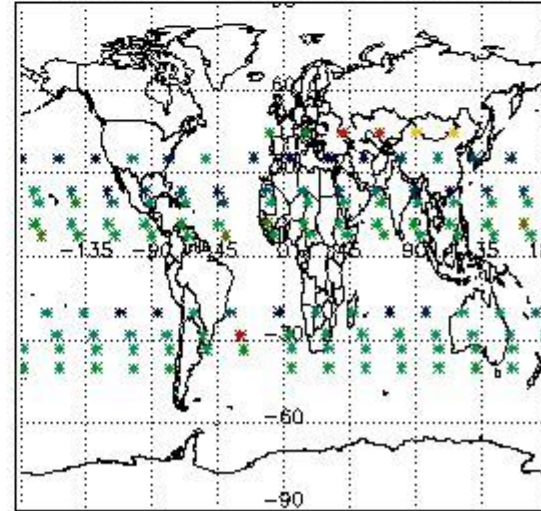
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

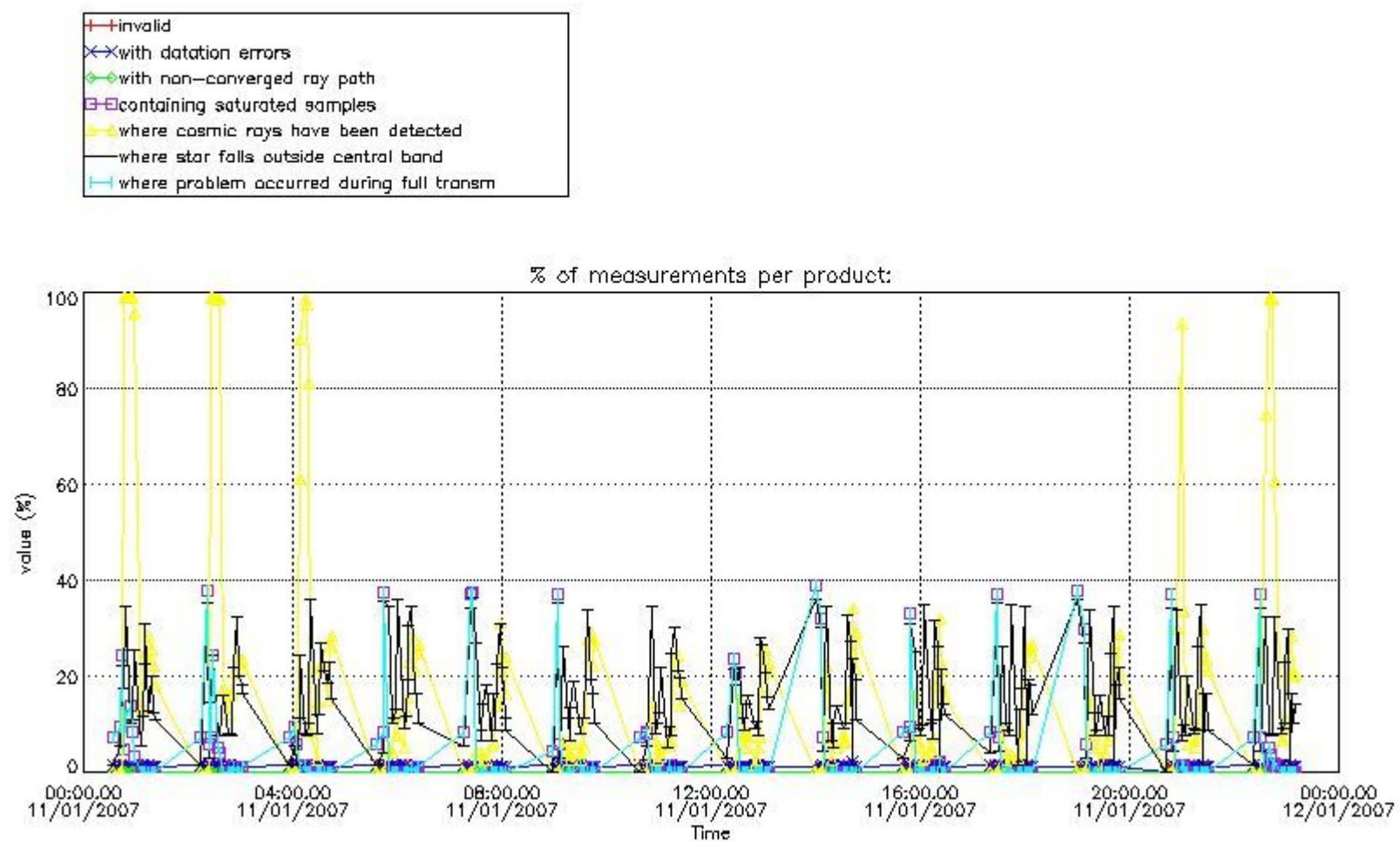


4. Level 1 quality information per product

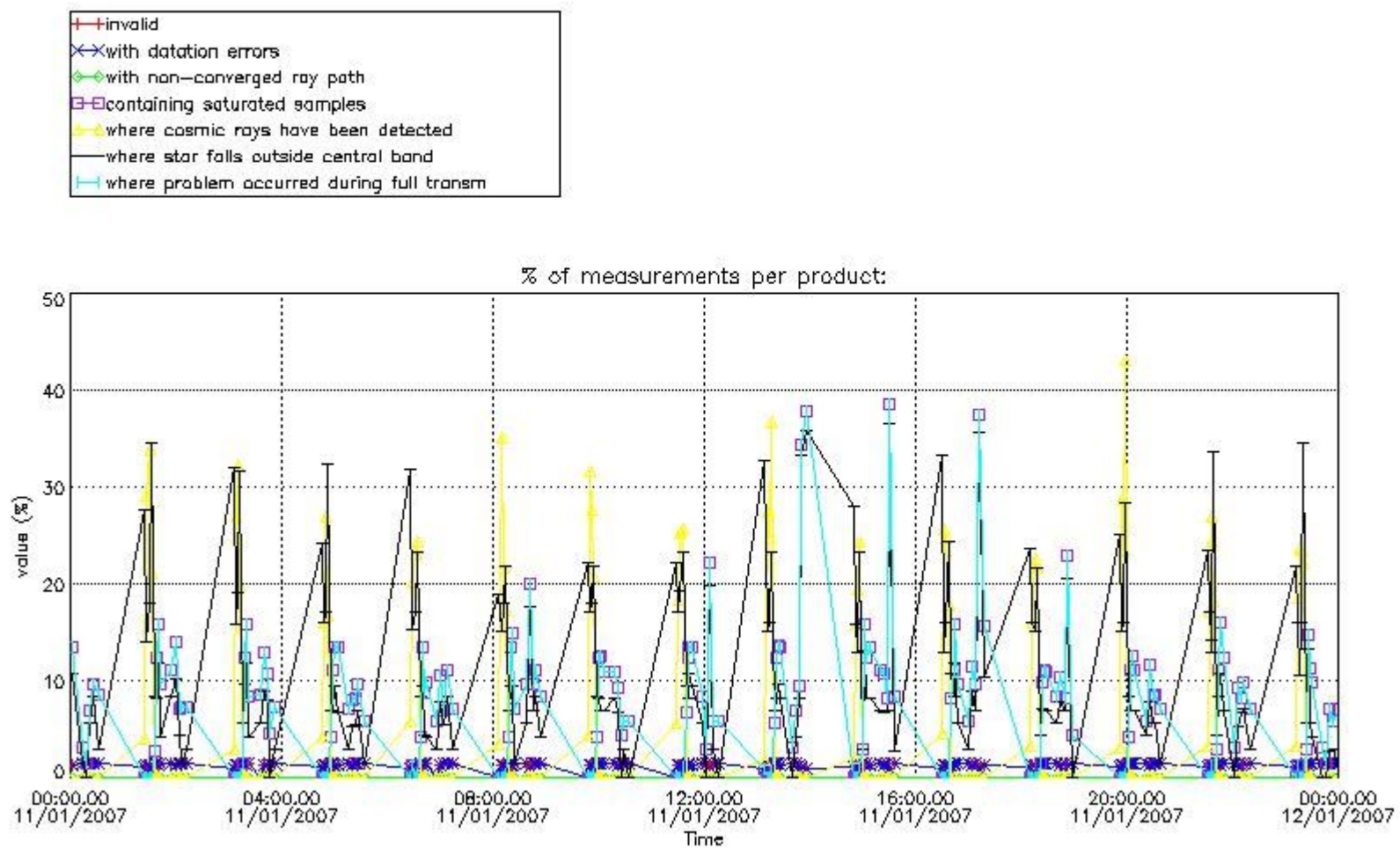
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

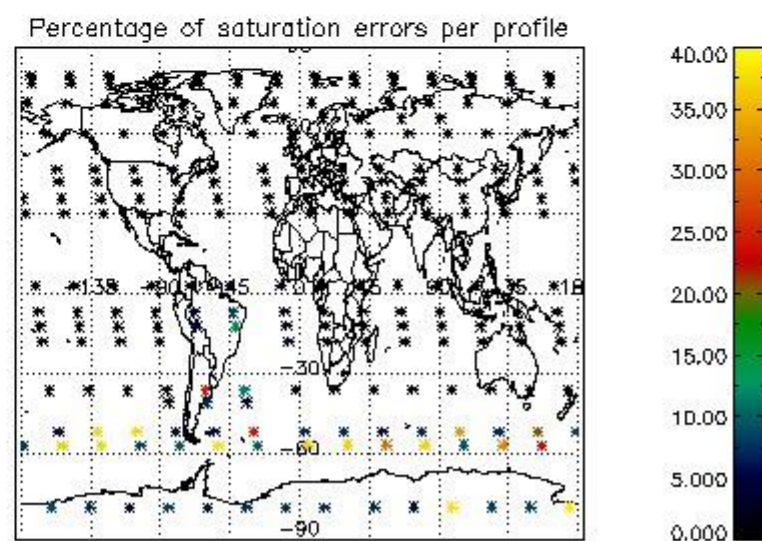
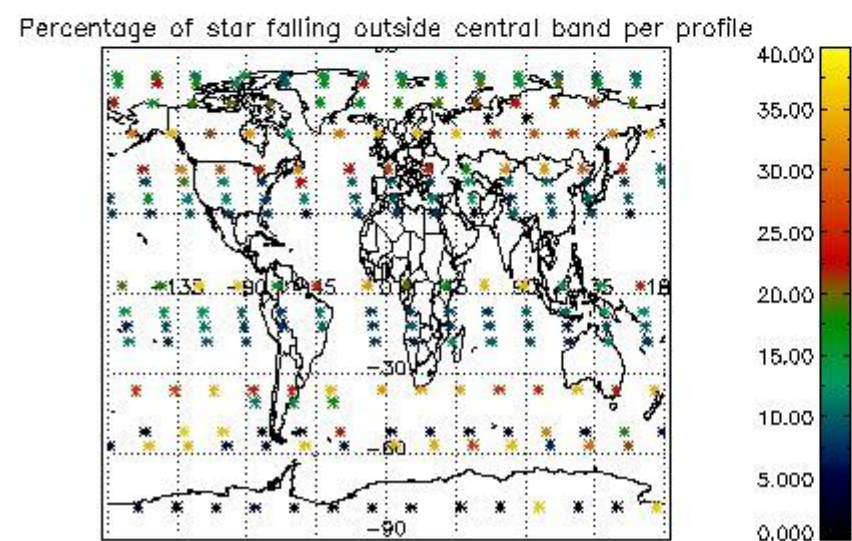
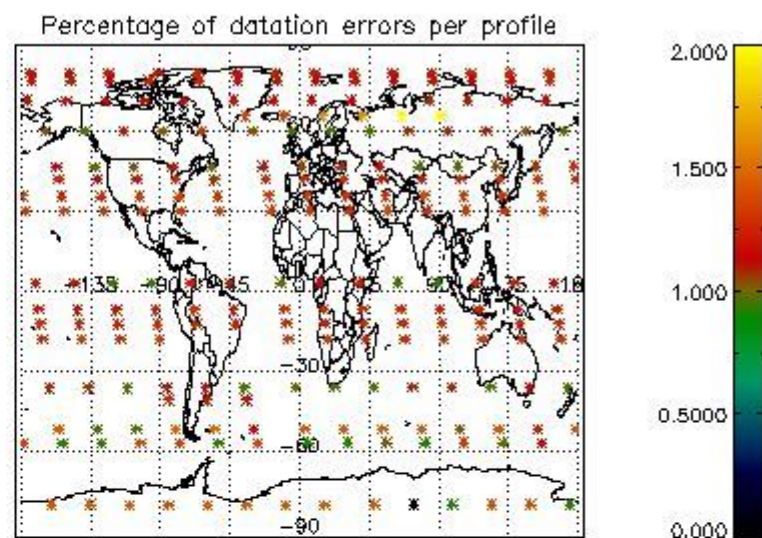
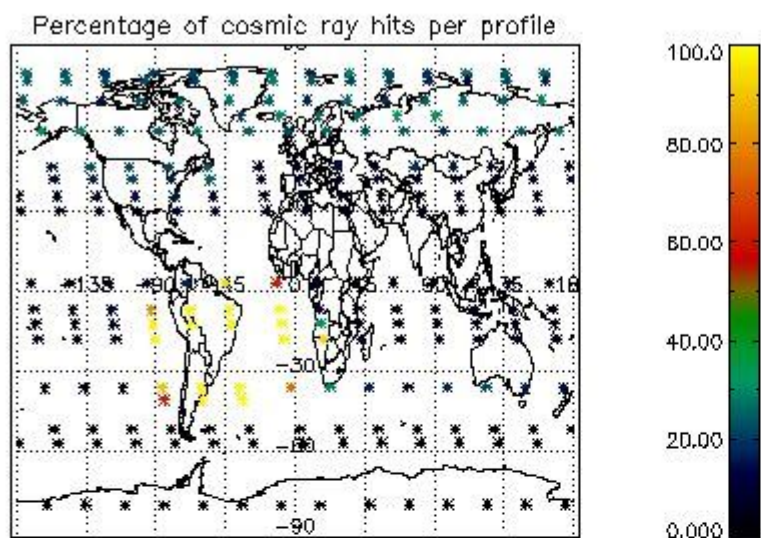


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

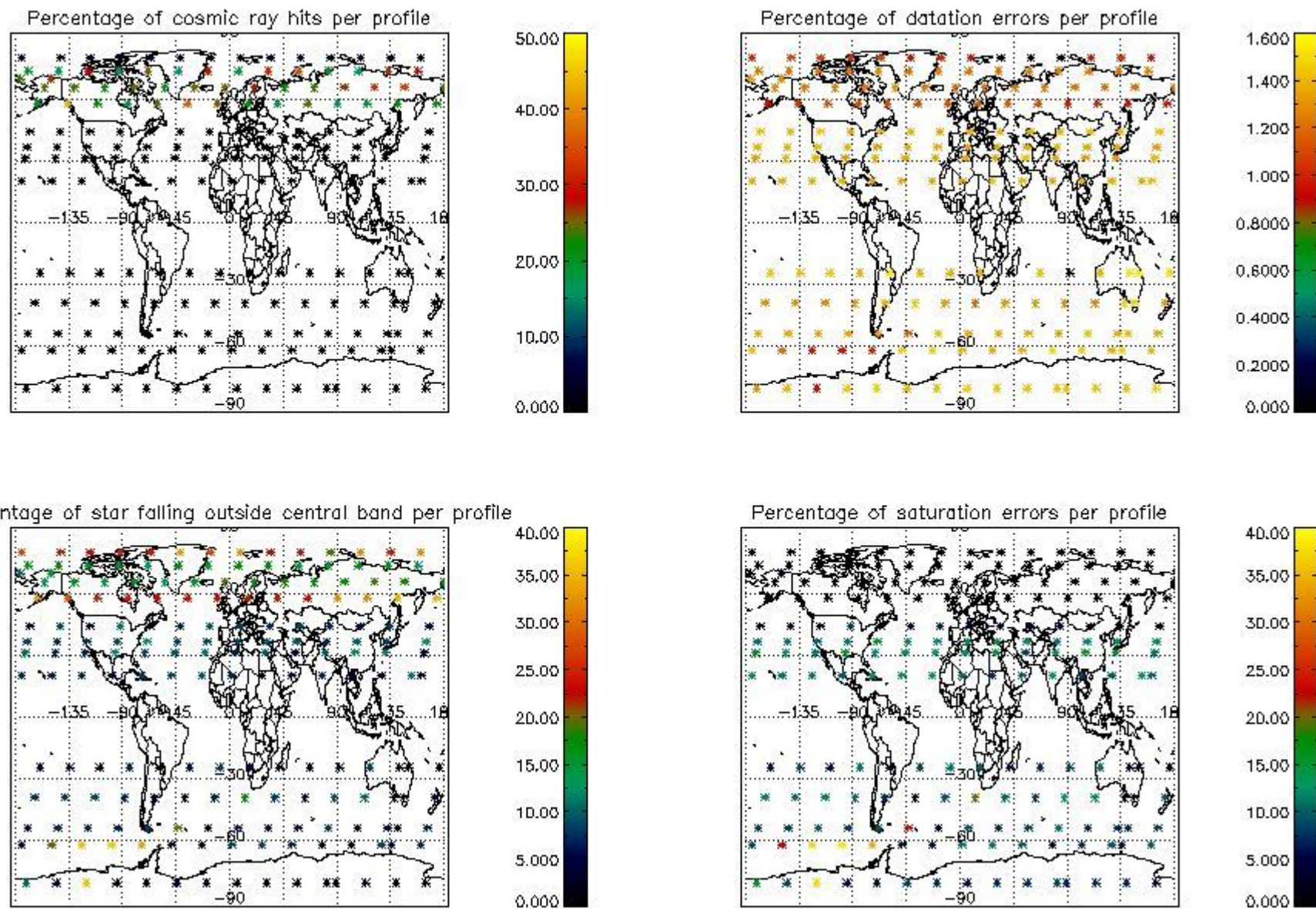


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

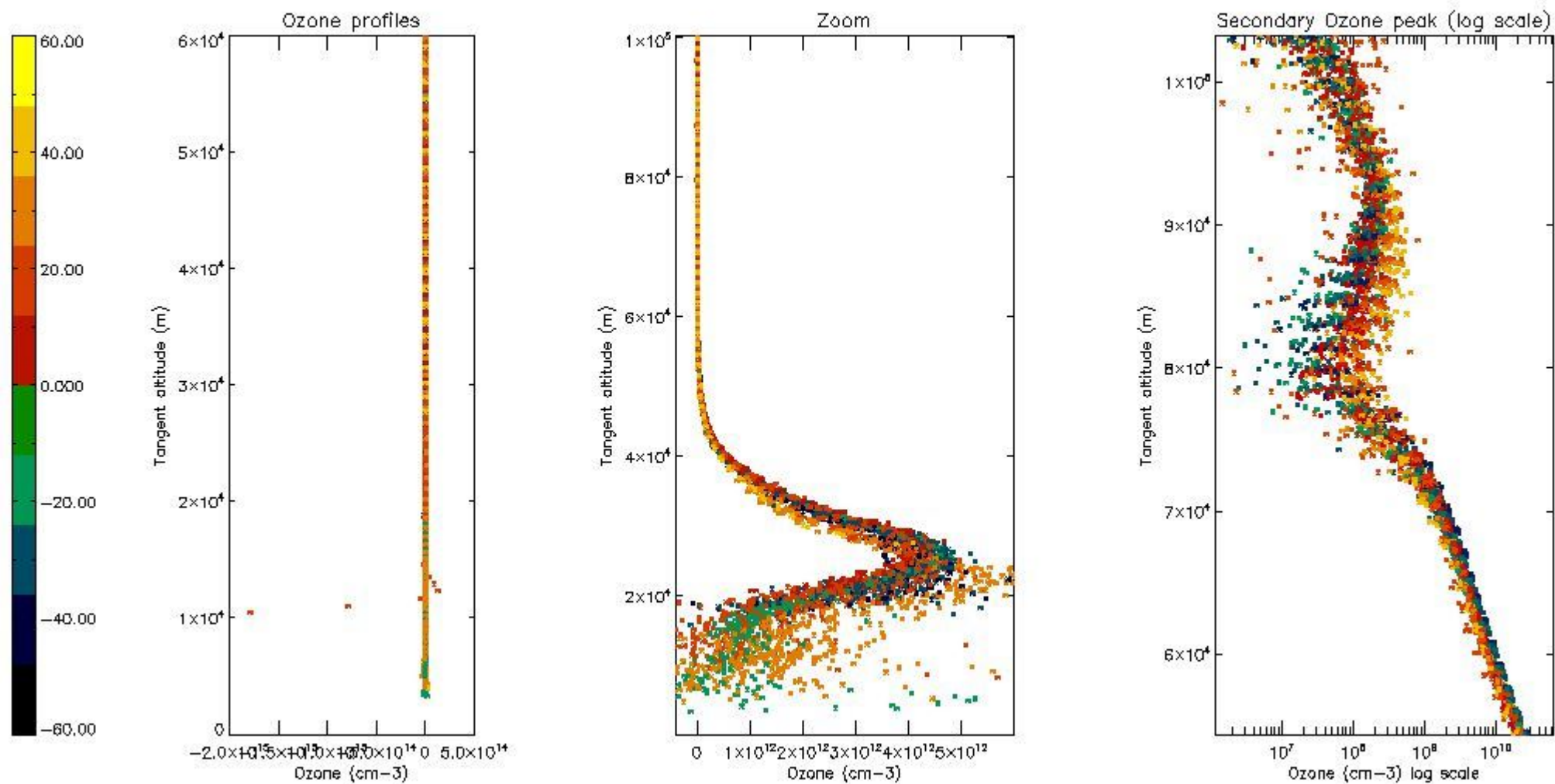
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	32
STD < 20	19

STD < 10	16
STD < 5	10

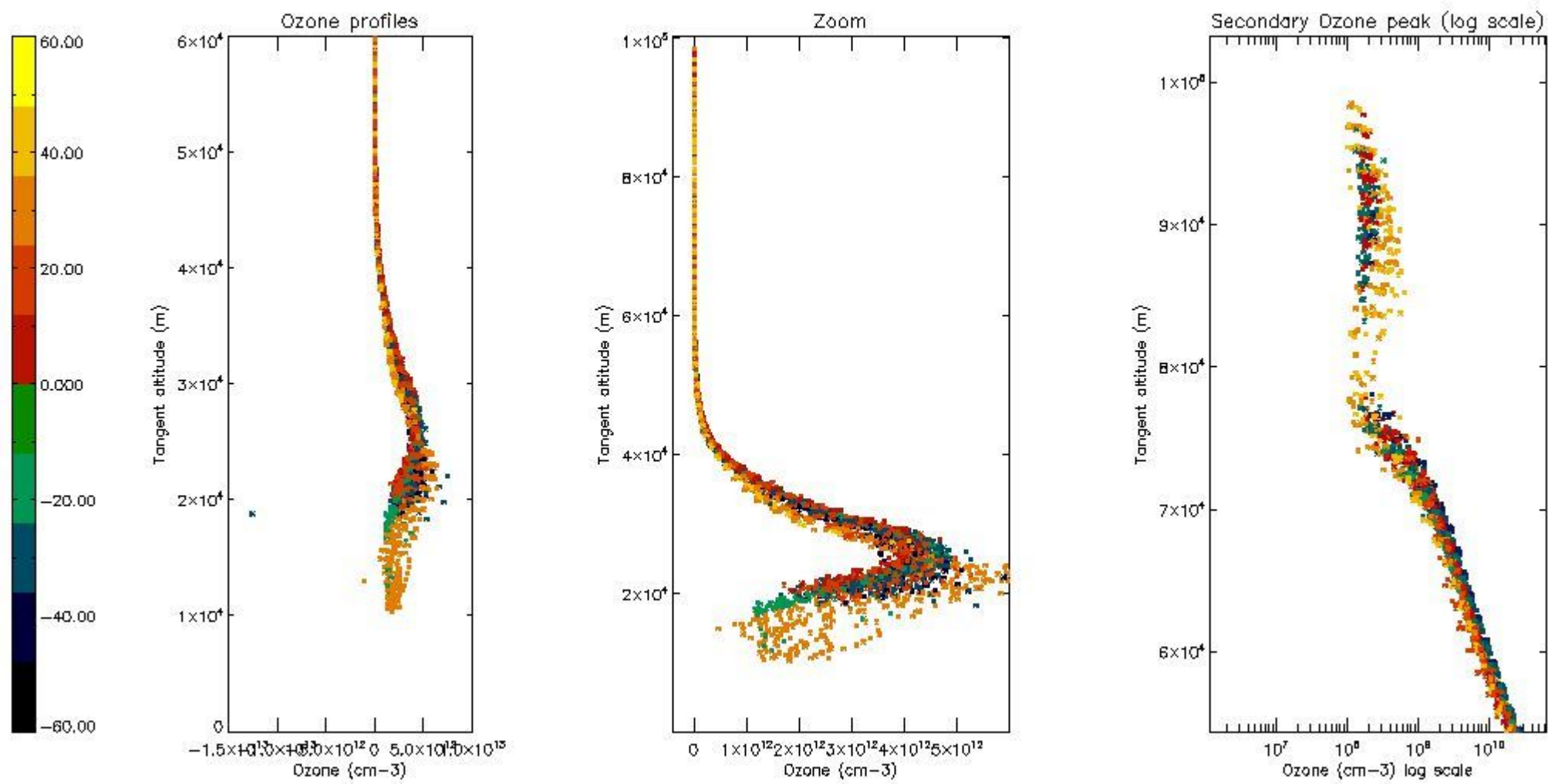
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



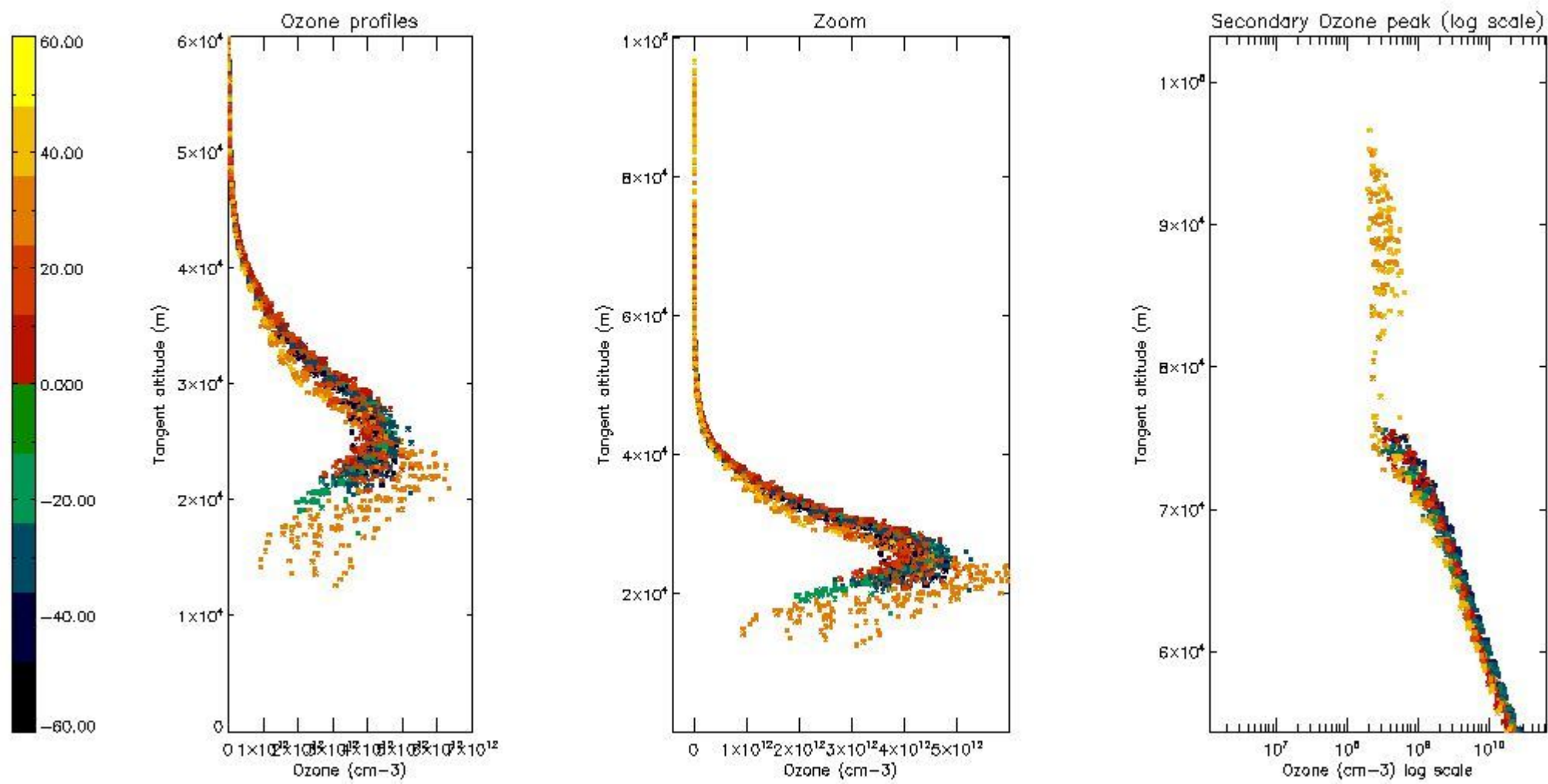
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



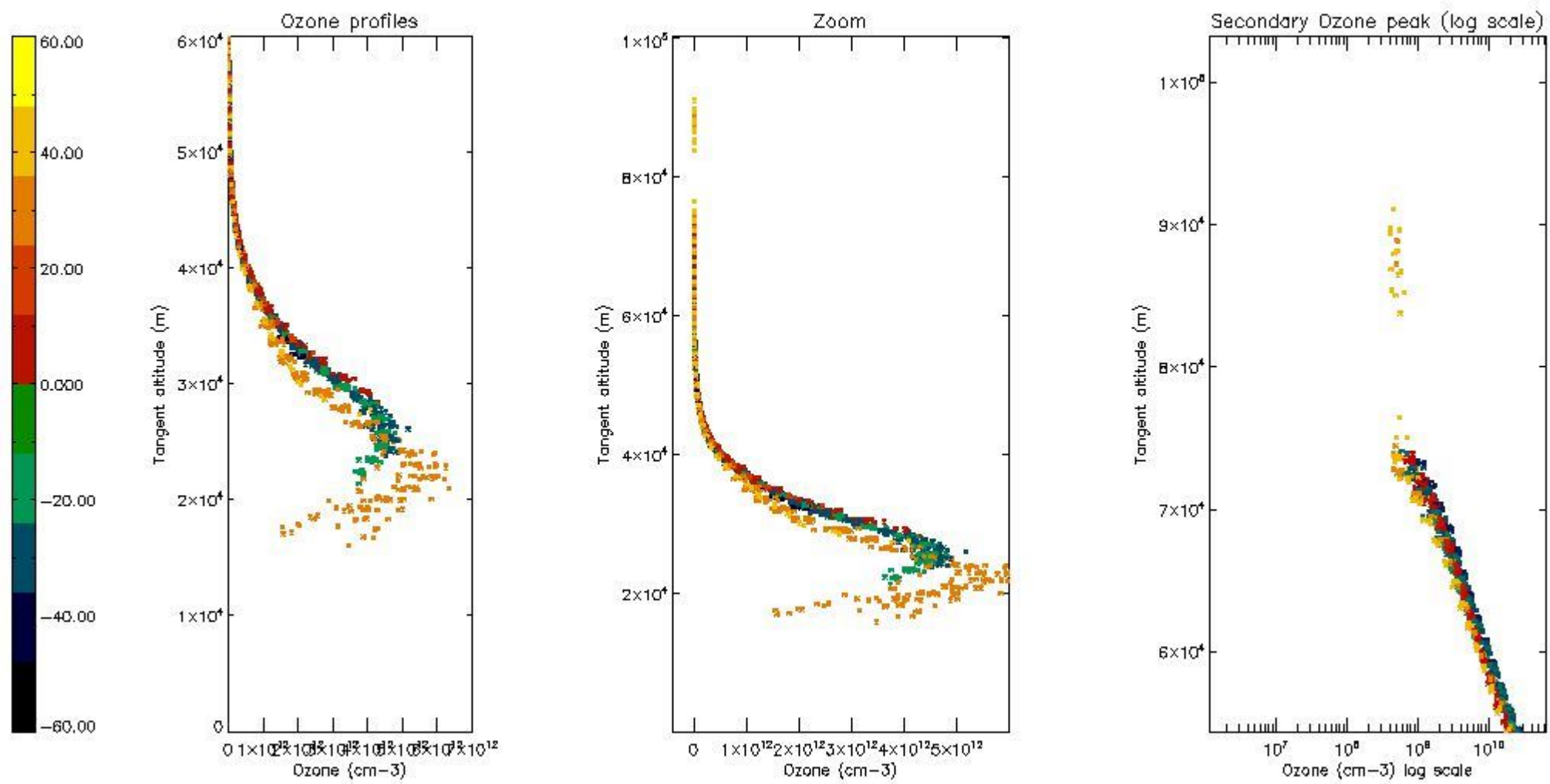
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



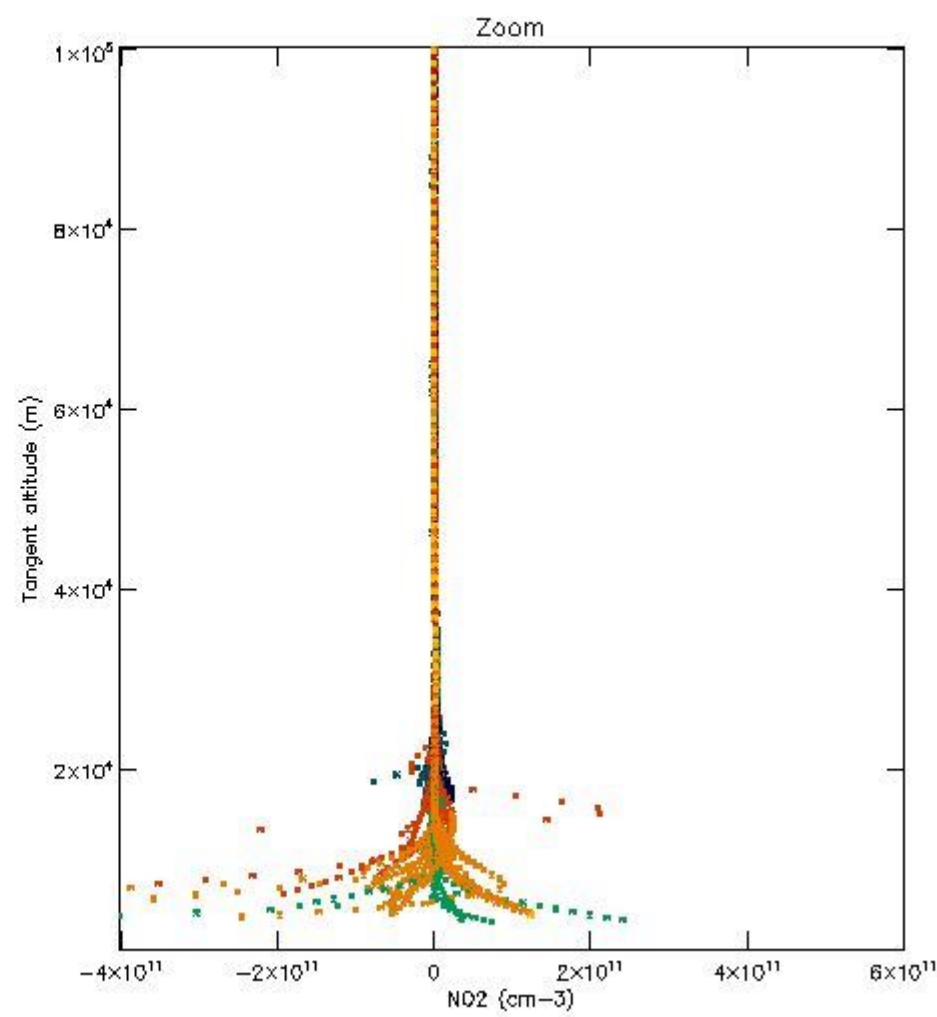
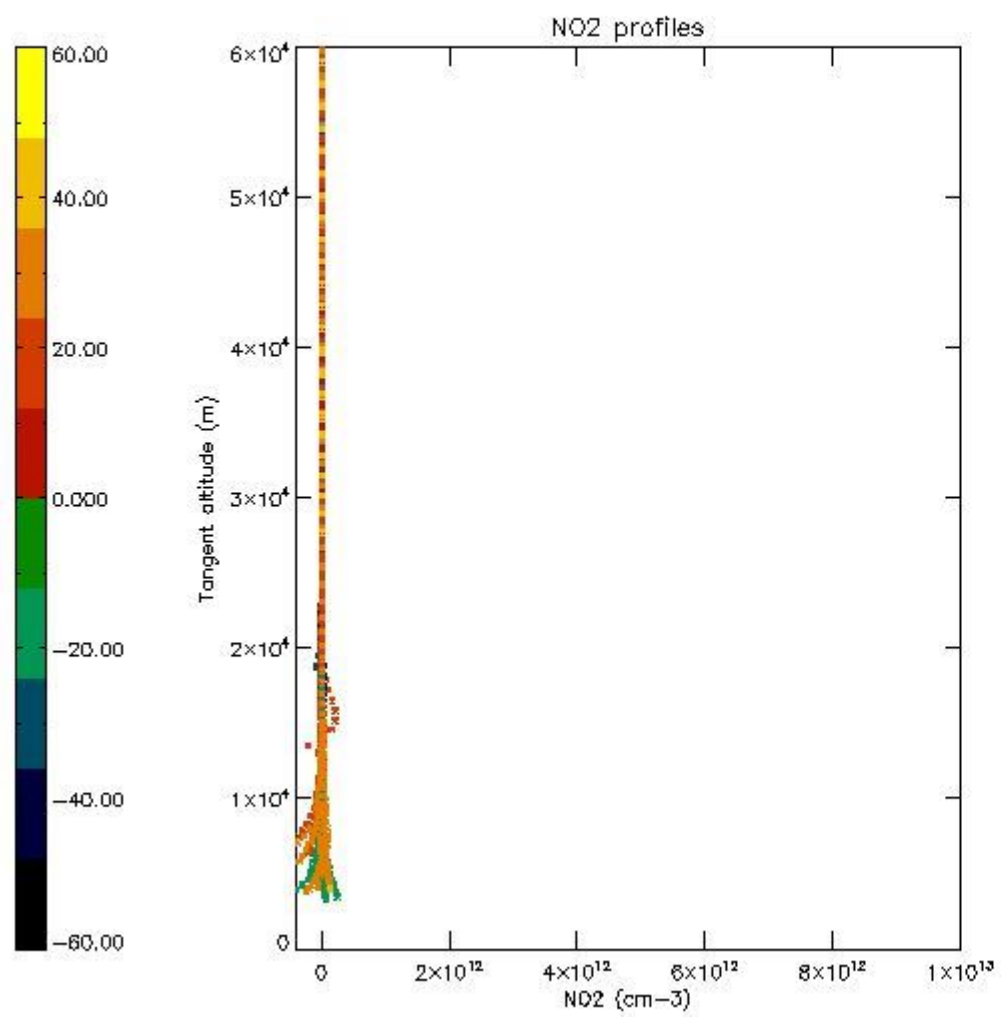
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



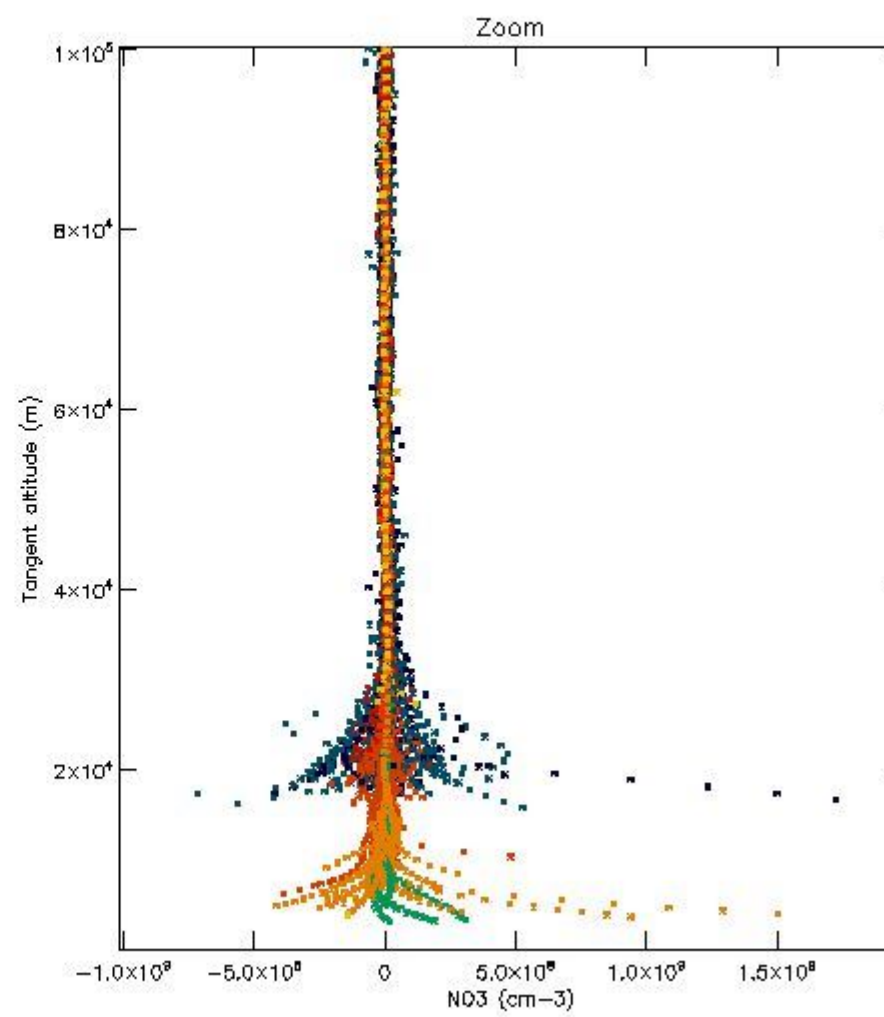
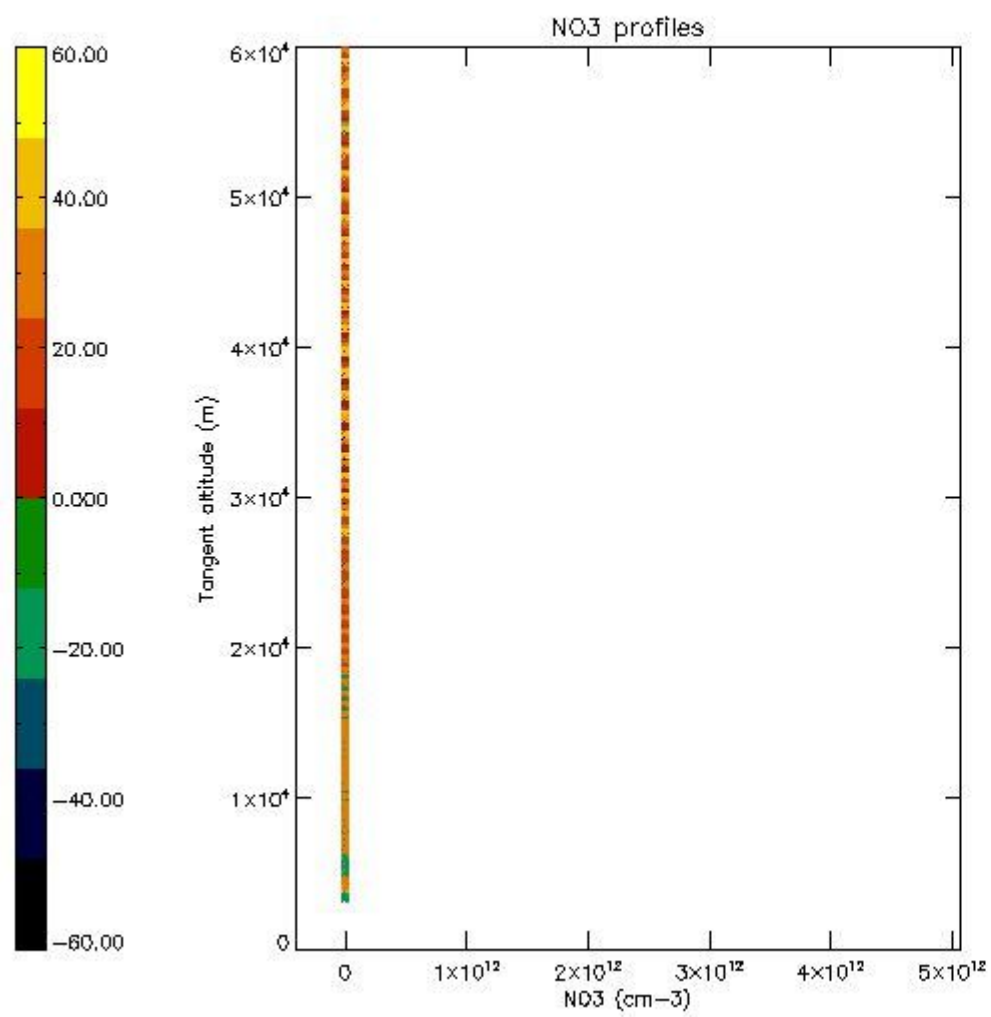
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



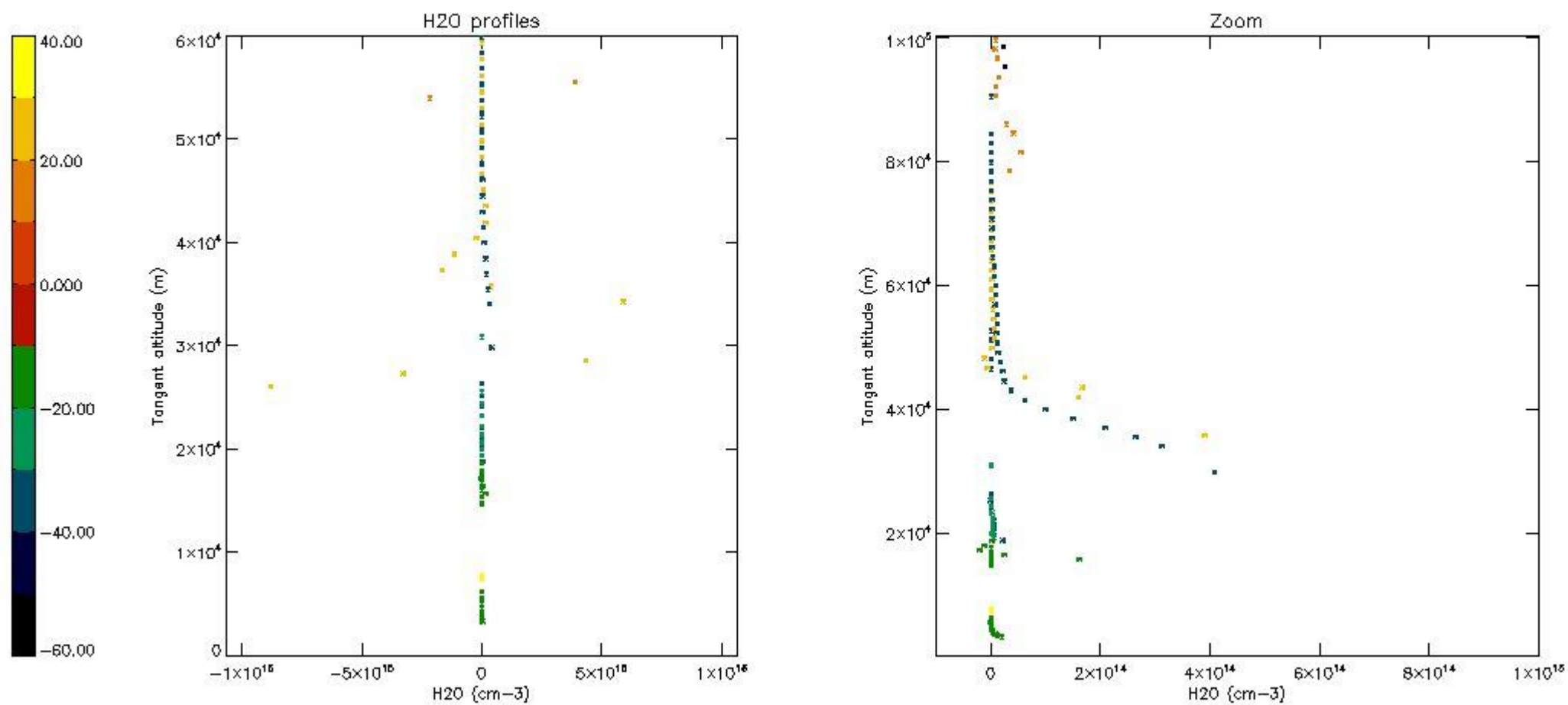
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

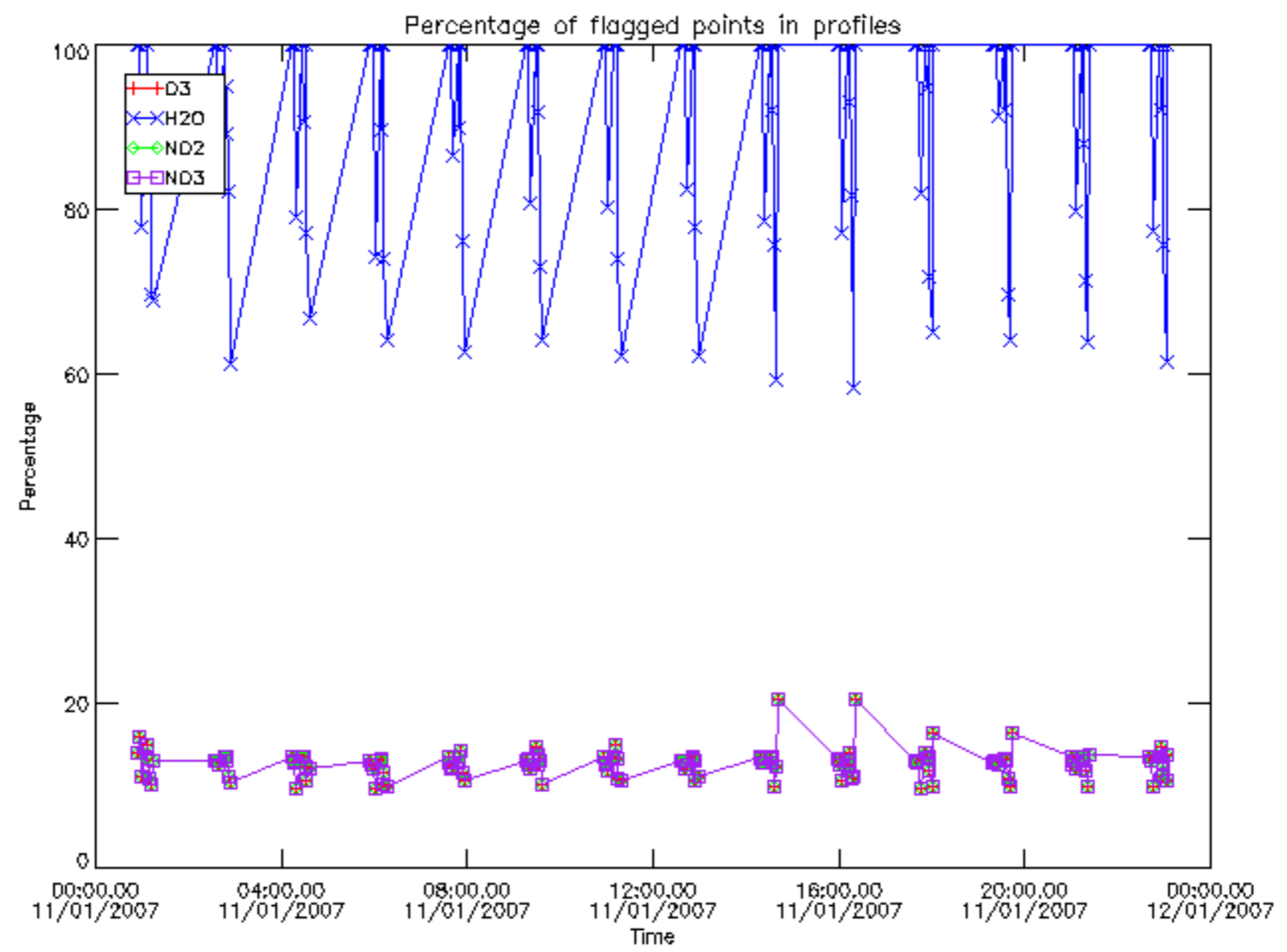
The colorbar represents the latitude.



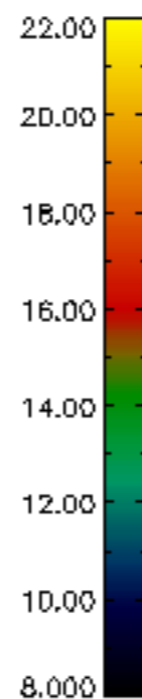
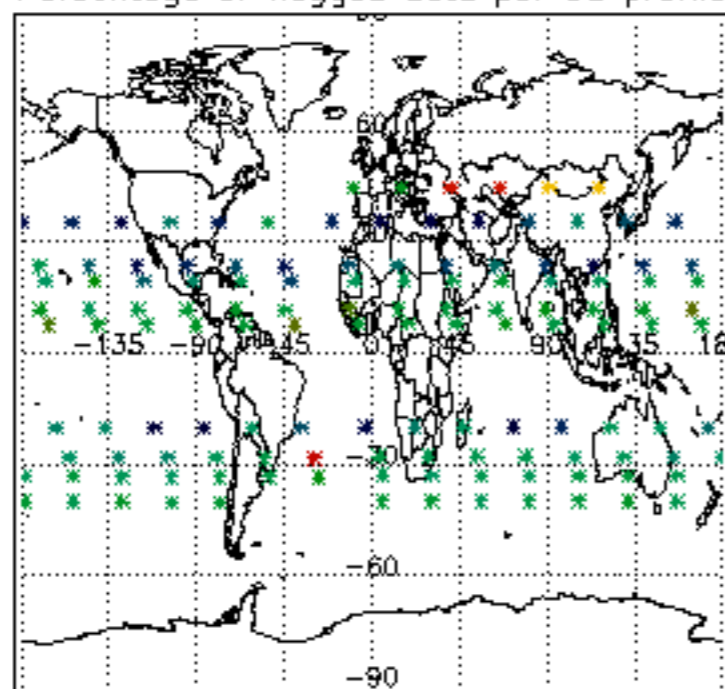
6. Auxiliary Data Files used for the production reported in section 2

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.

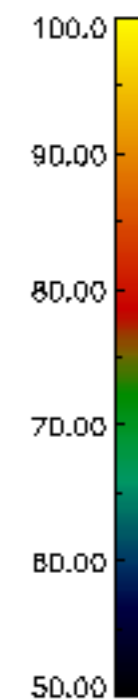
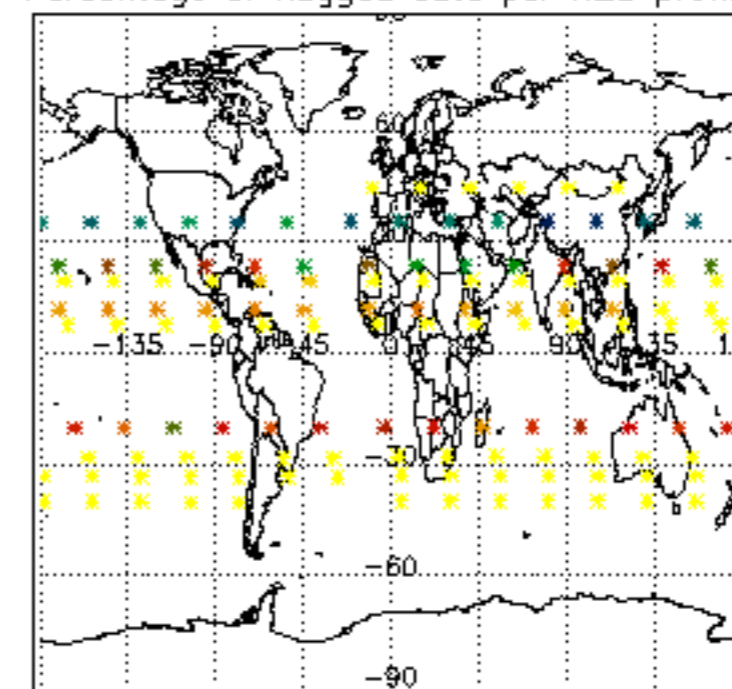
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	11-JAN-2007 00:01:47
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	11-JAN-2007 00:01:47
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	11-JAN-2007 00:01:47



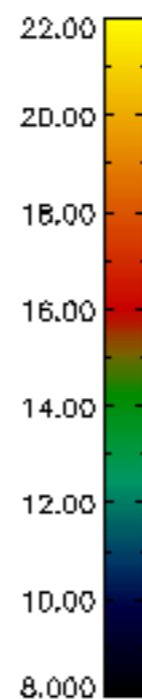
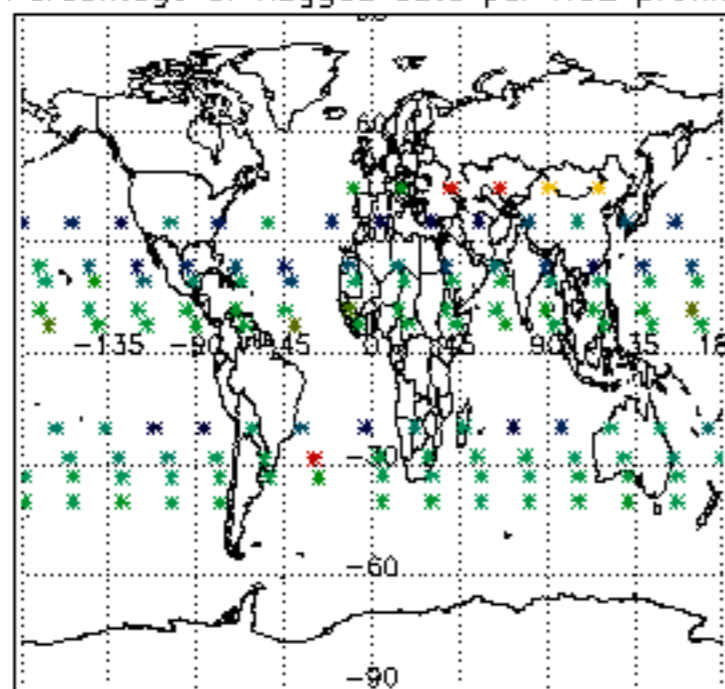
Percentage of flagged data per D3 profile



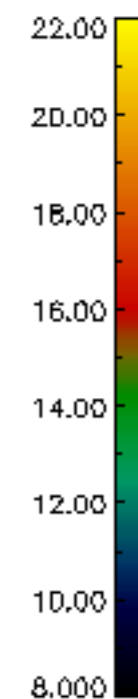
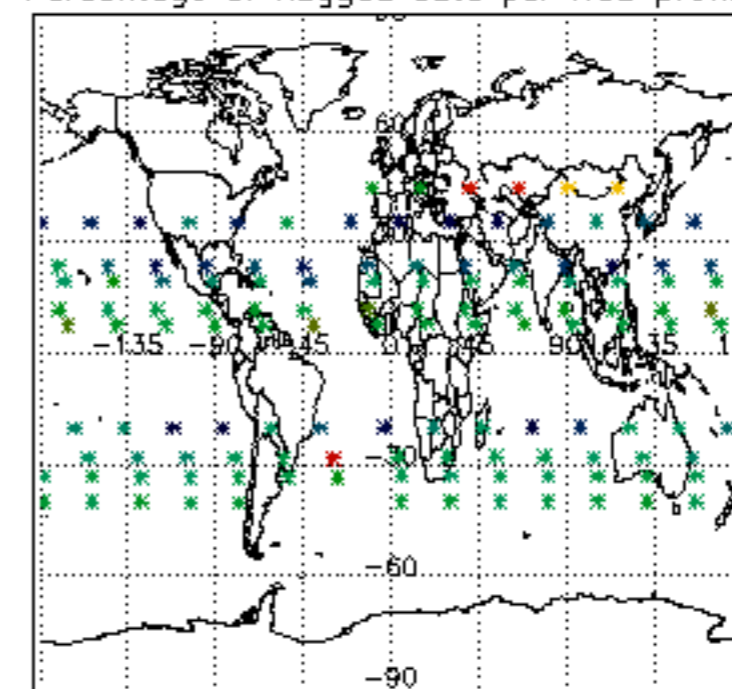
Percentage of flagged data per H2O profile

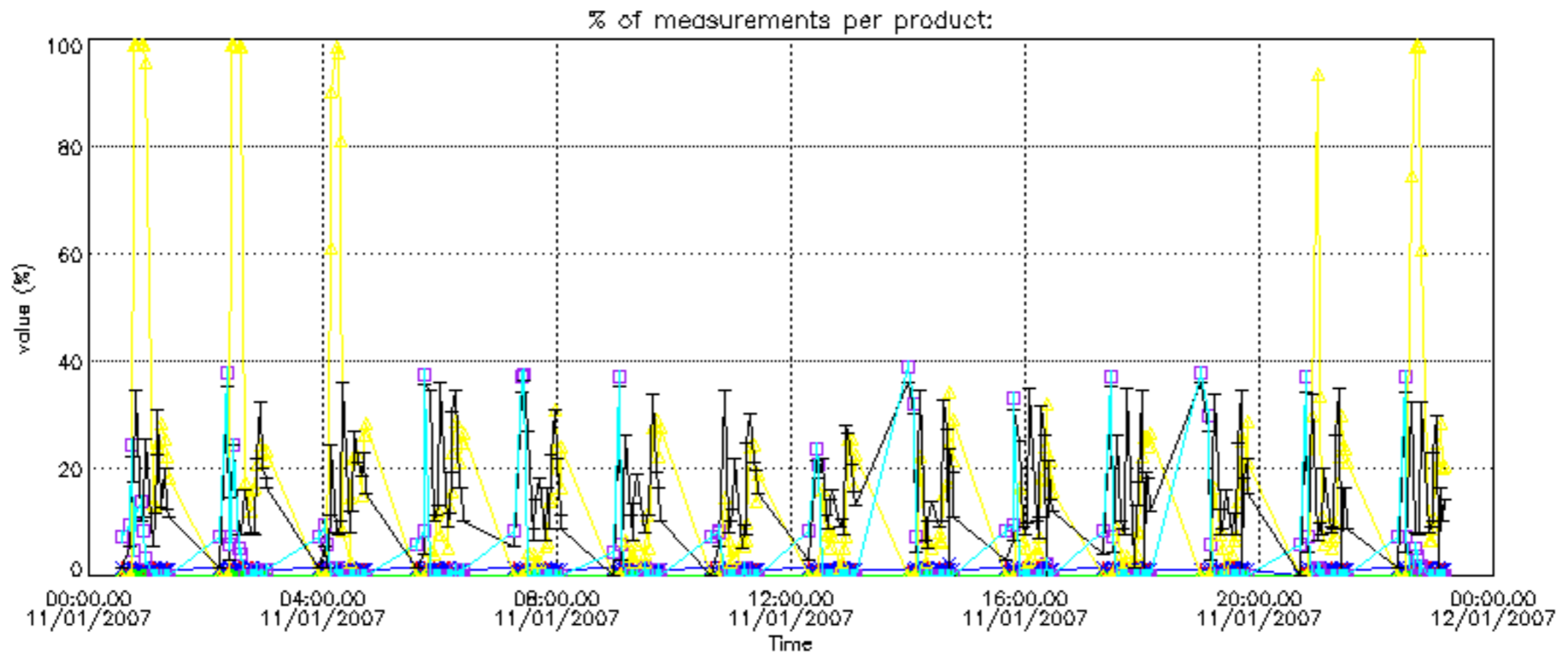


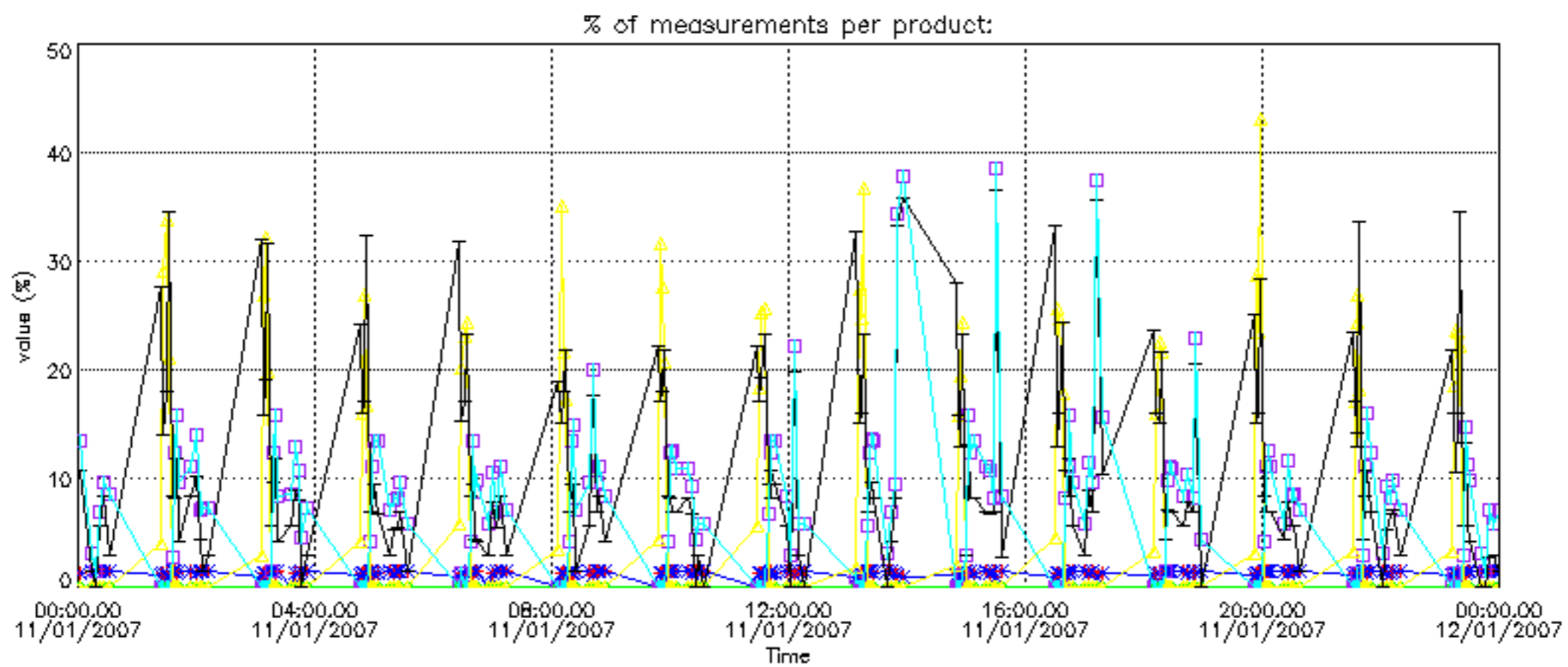
Percentage of flagged data per NO2 profile



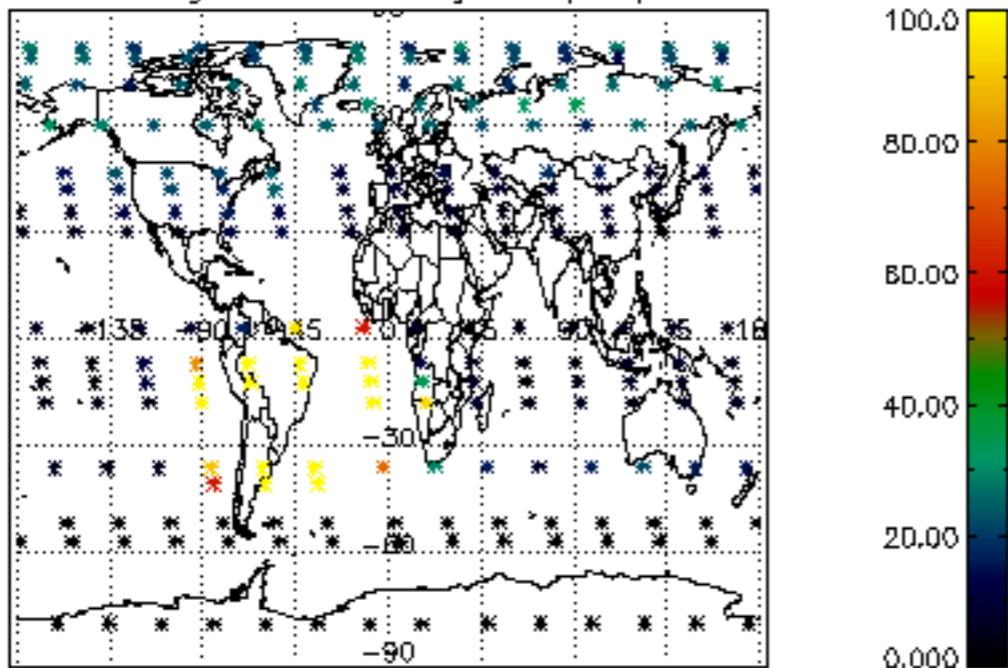
Percentage of flagged data per NO3 profile



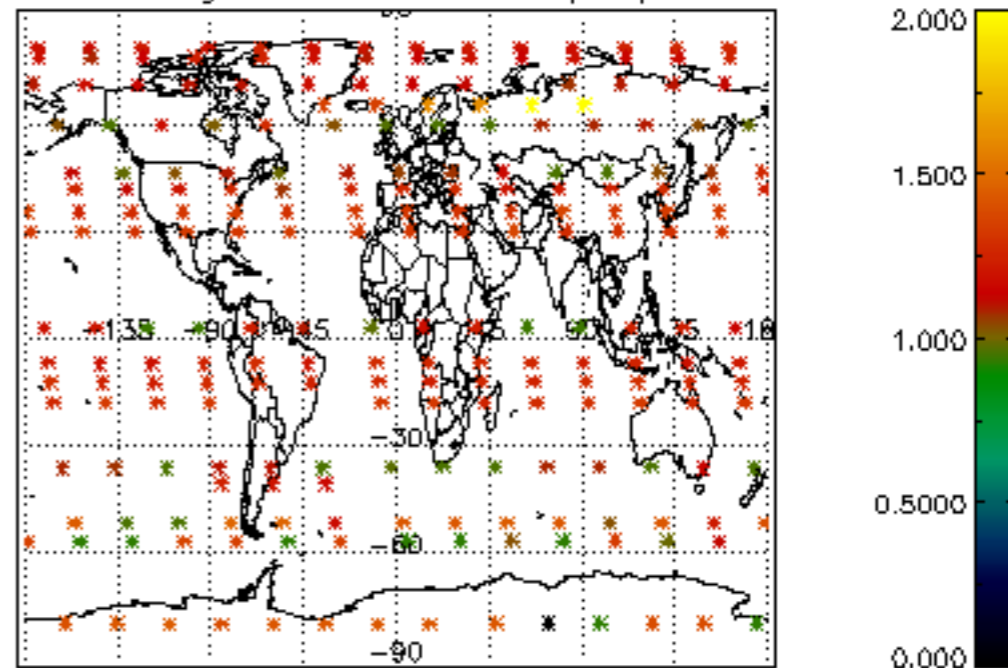




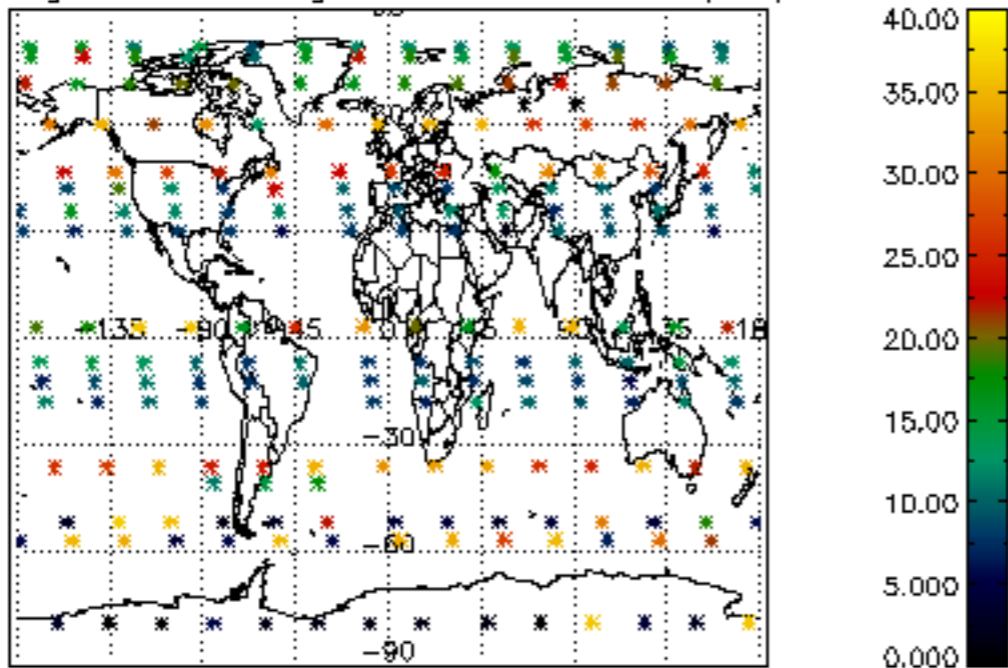
Percentage of cosmic ray hits per profile



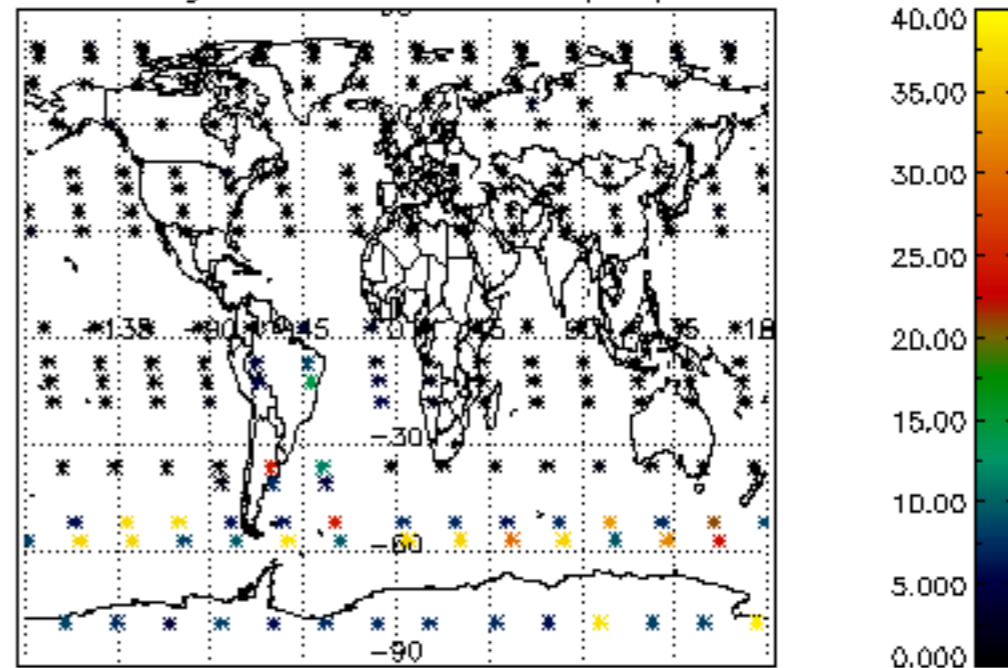
Percentage of datation errors per profile



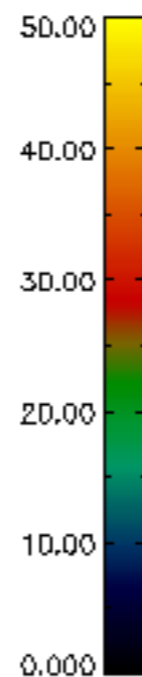
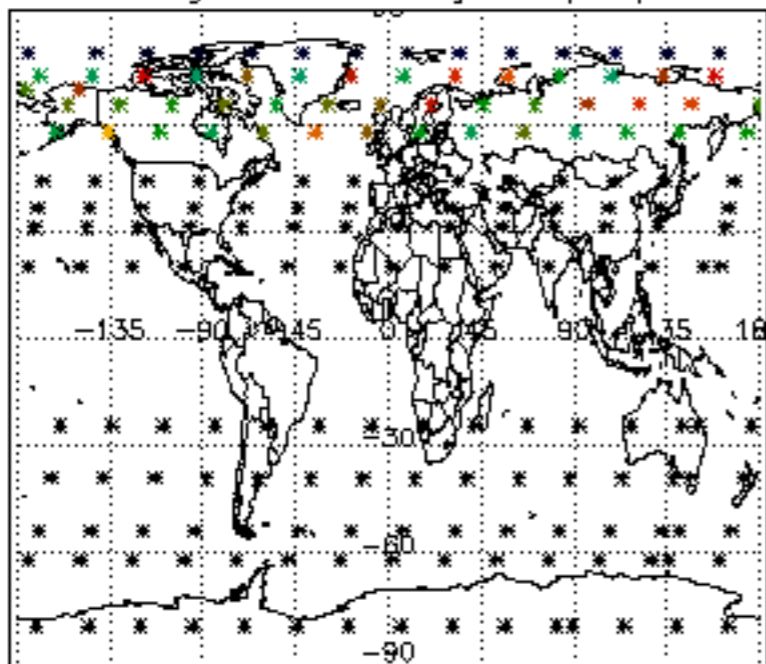
Percentage of star falling outside central band per profile



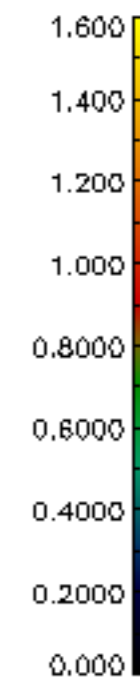
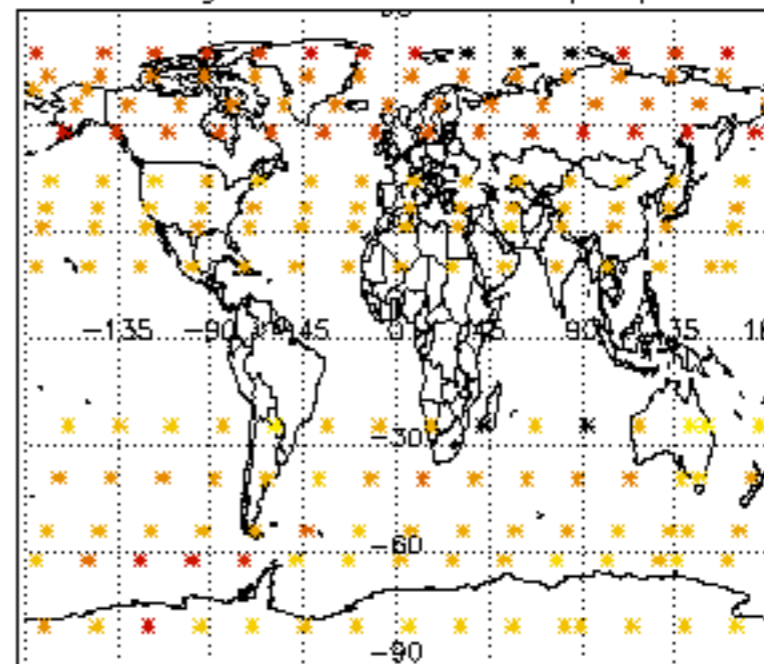
Percentage of saturation errors per profile



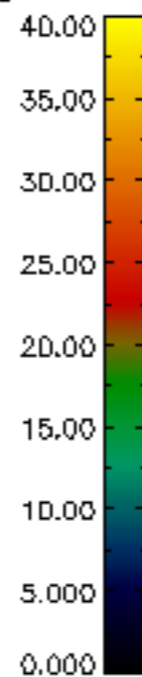
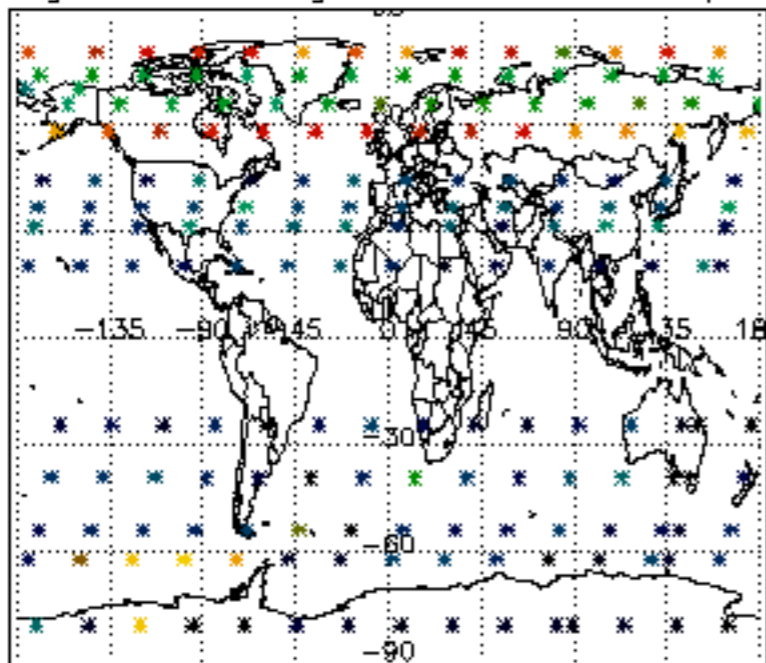
Percentage of cosmic ray hits per profile



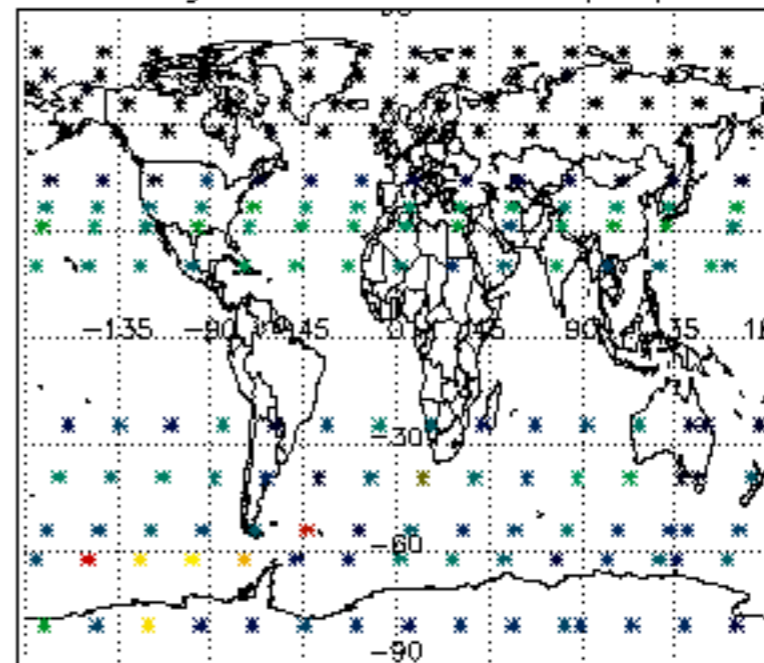
Percentage of datation errors per profile

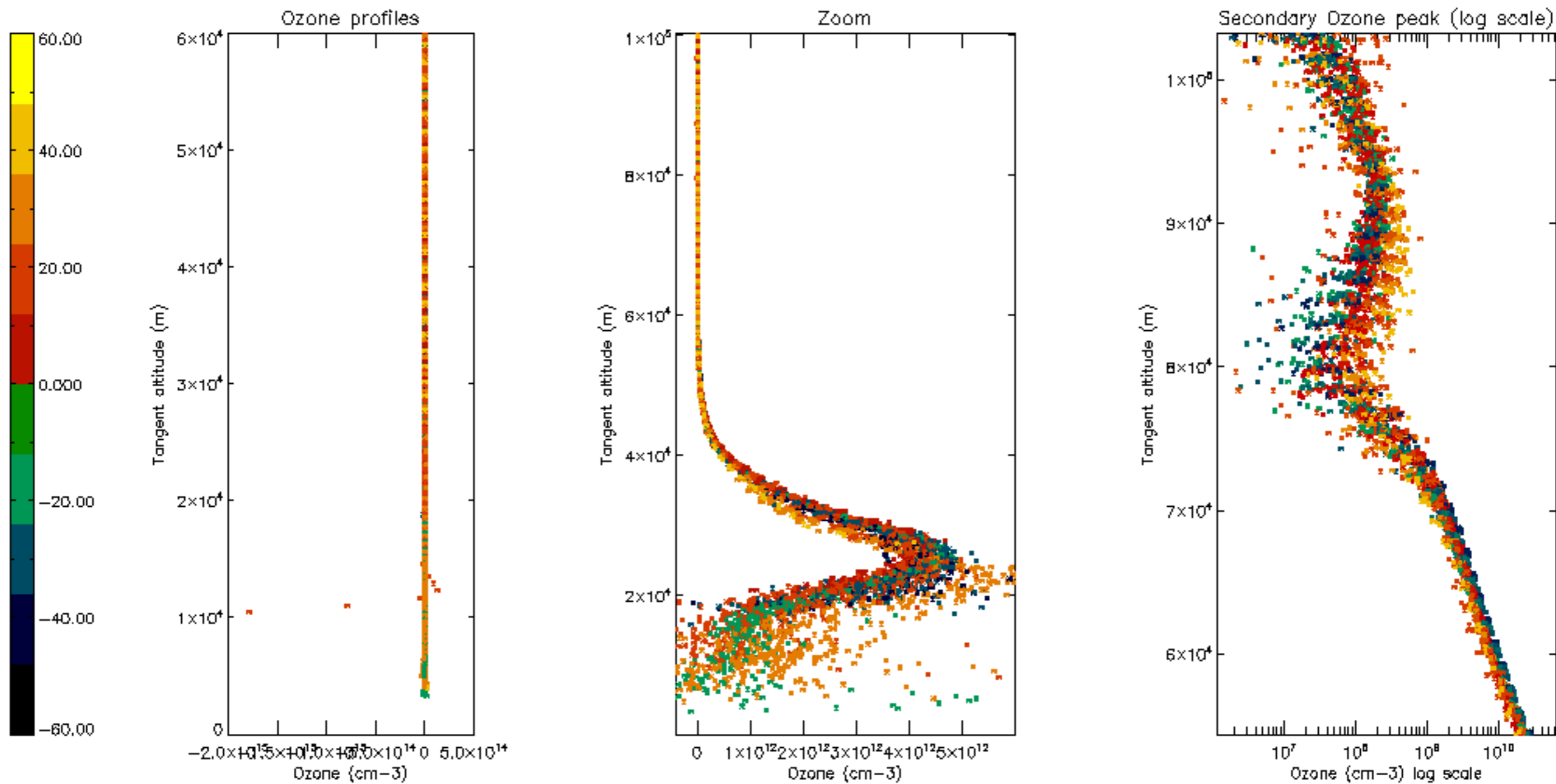


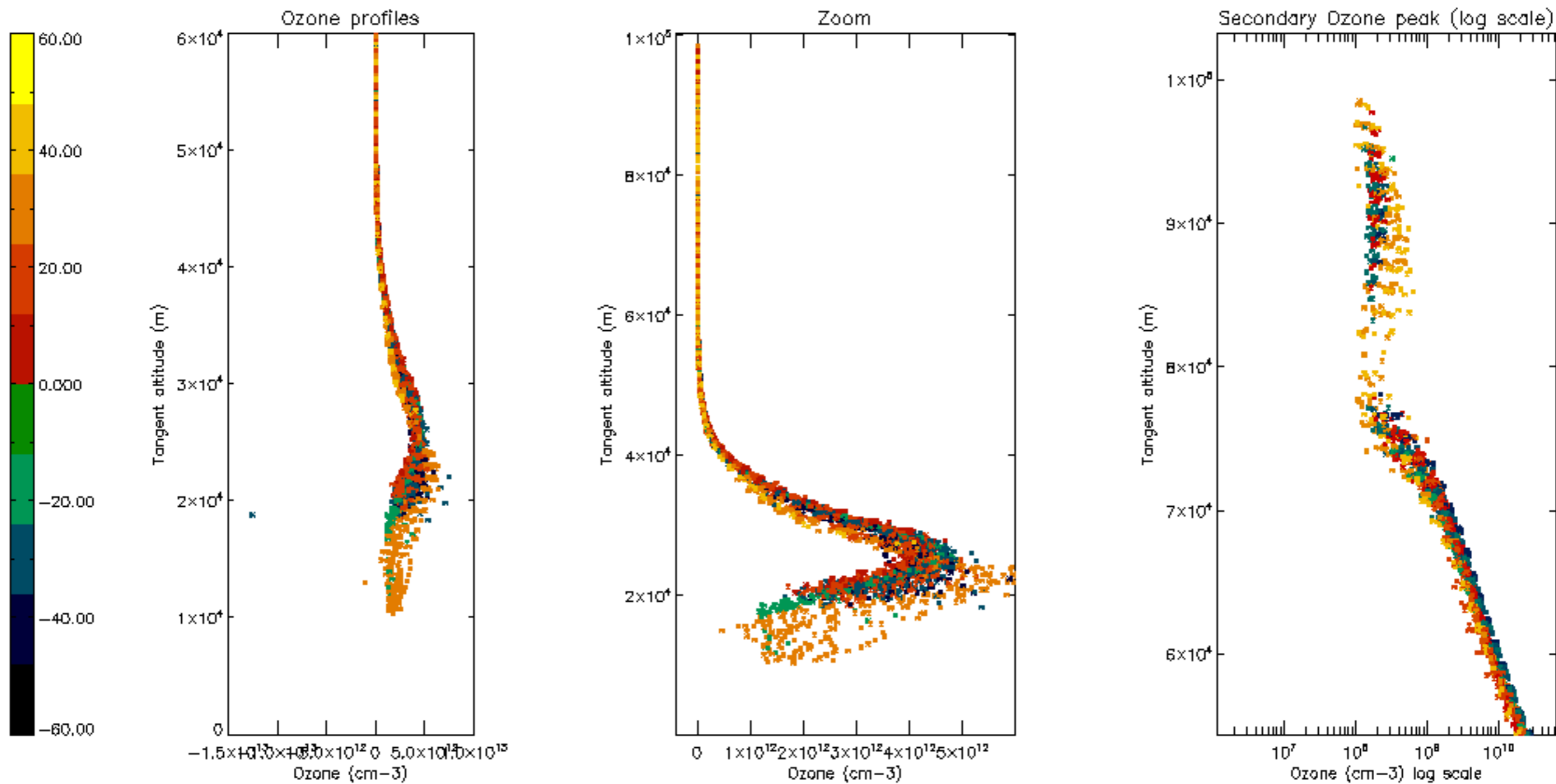
Percentage of star falling outside central band per profile

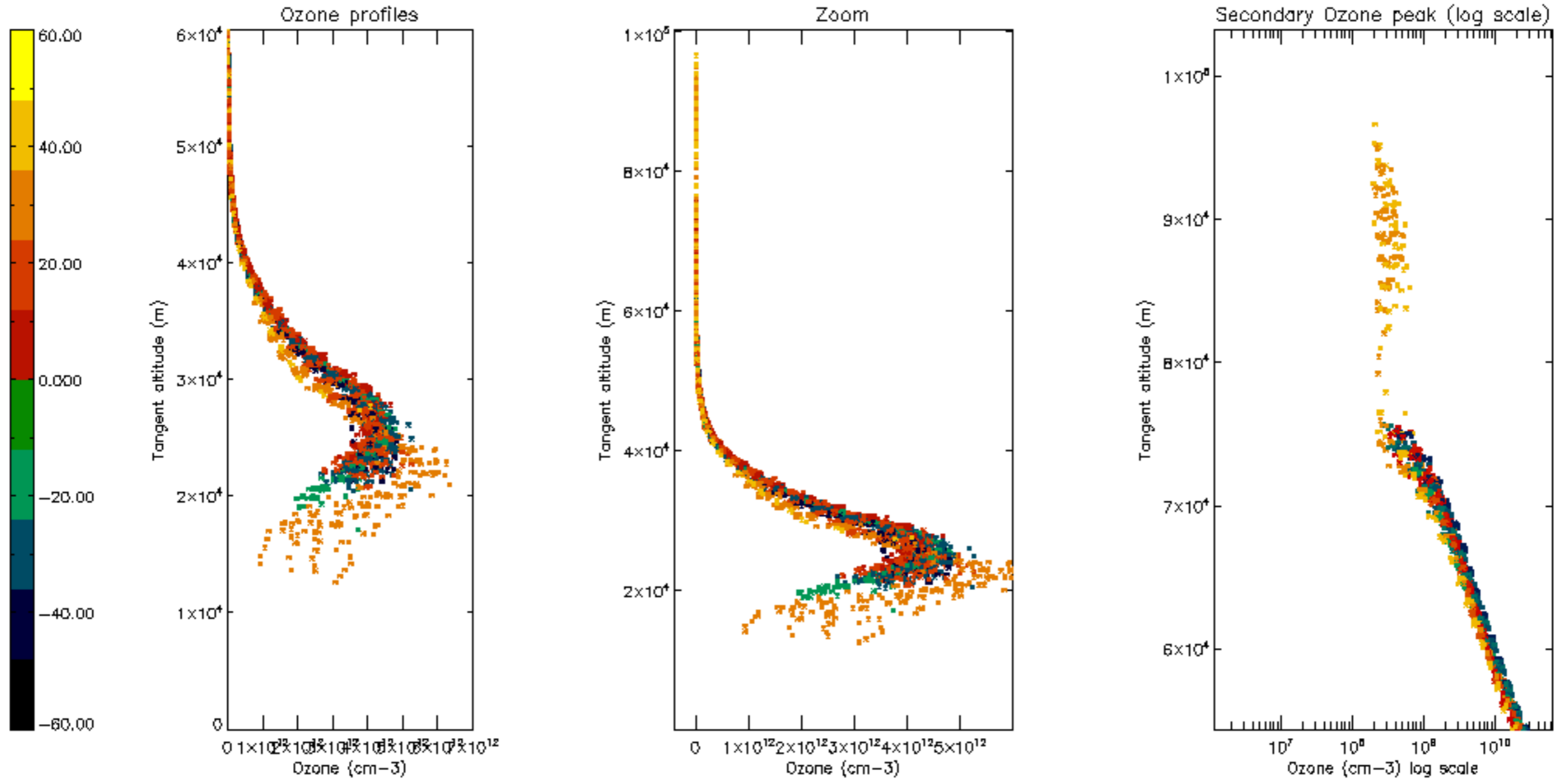


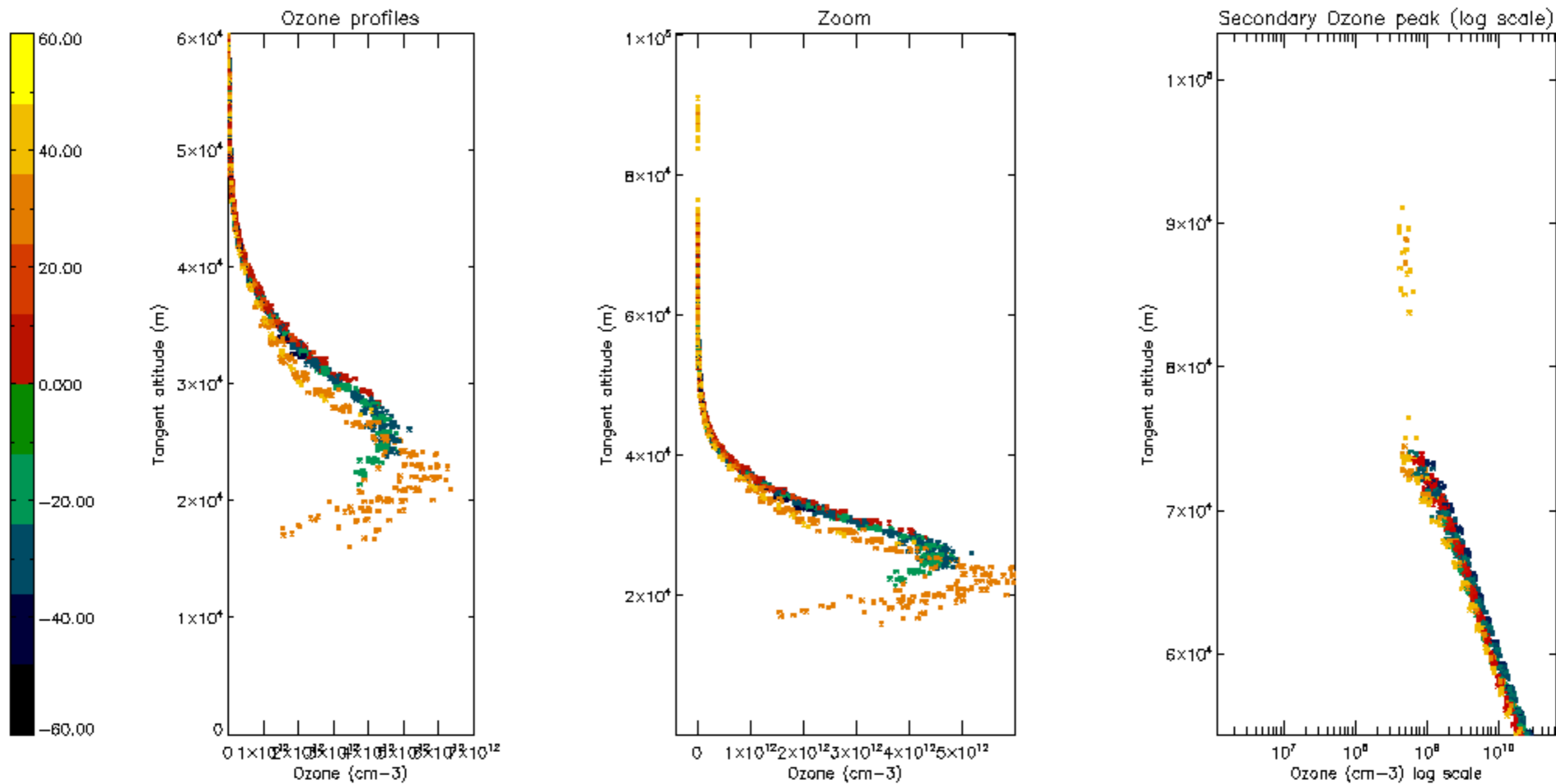
Percentage of saturation errors per profile

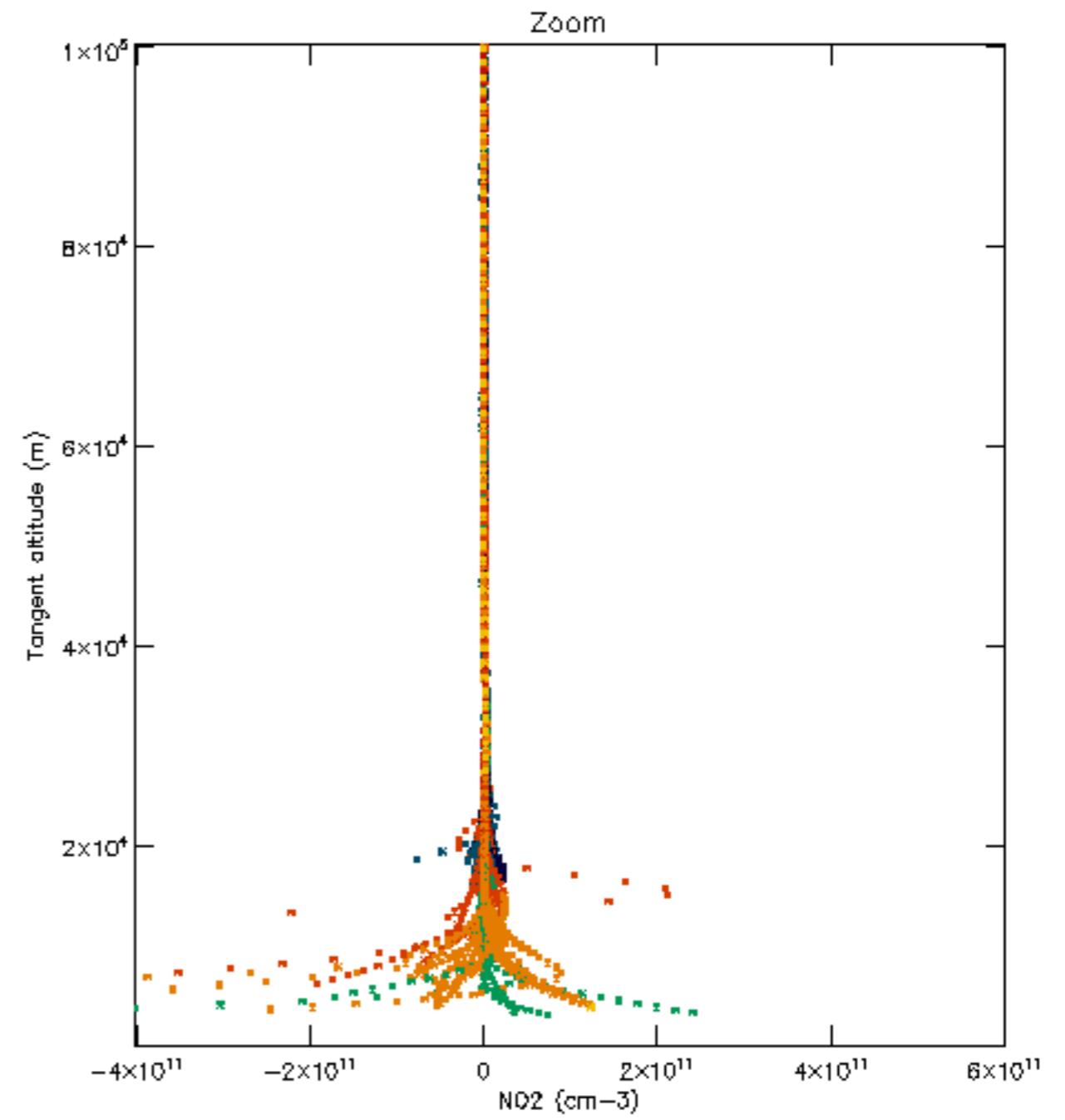
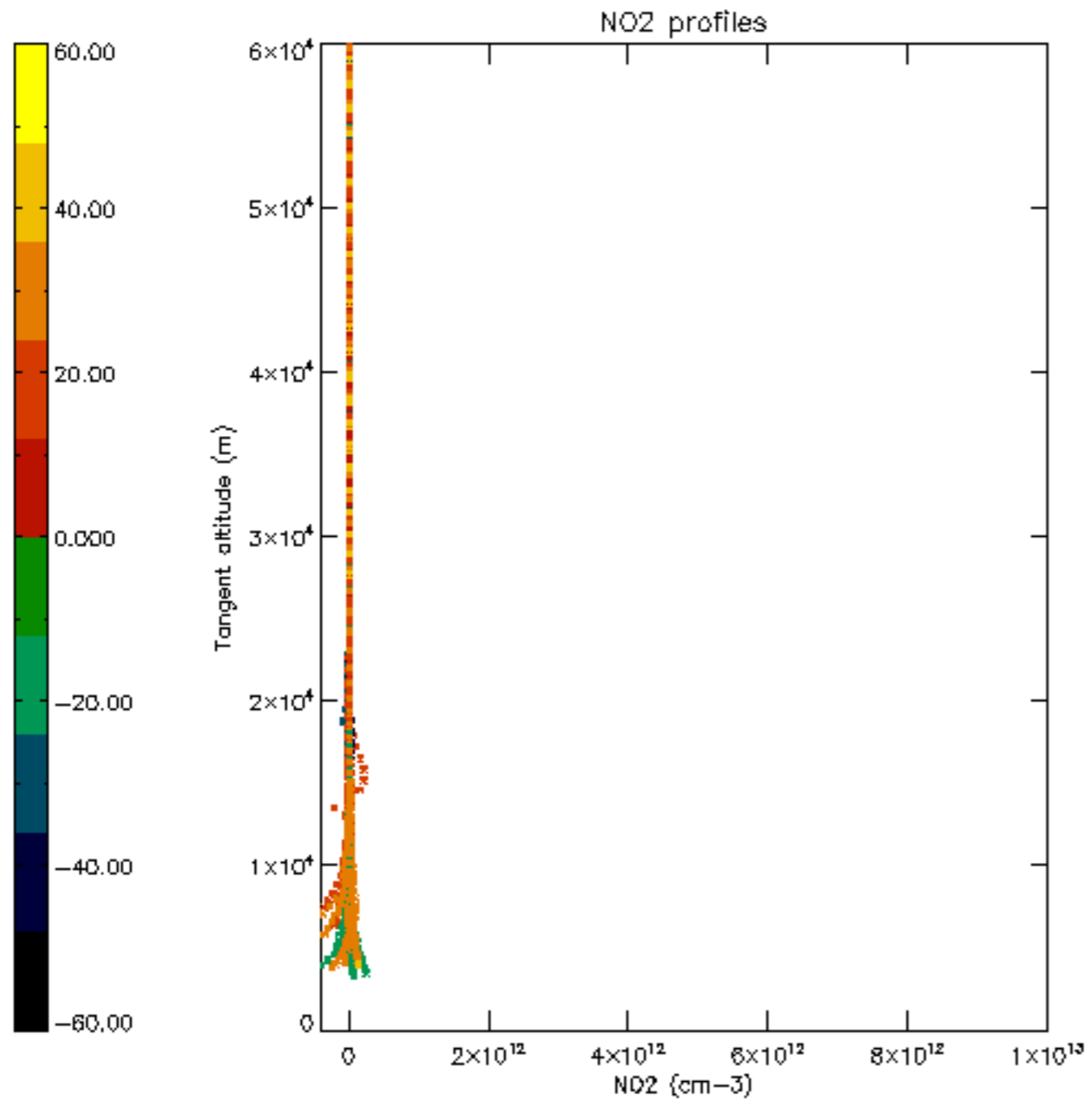


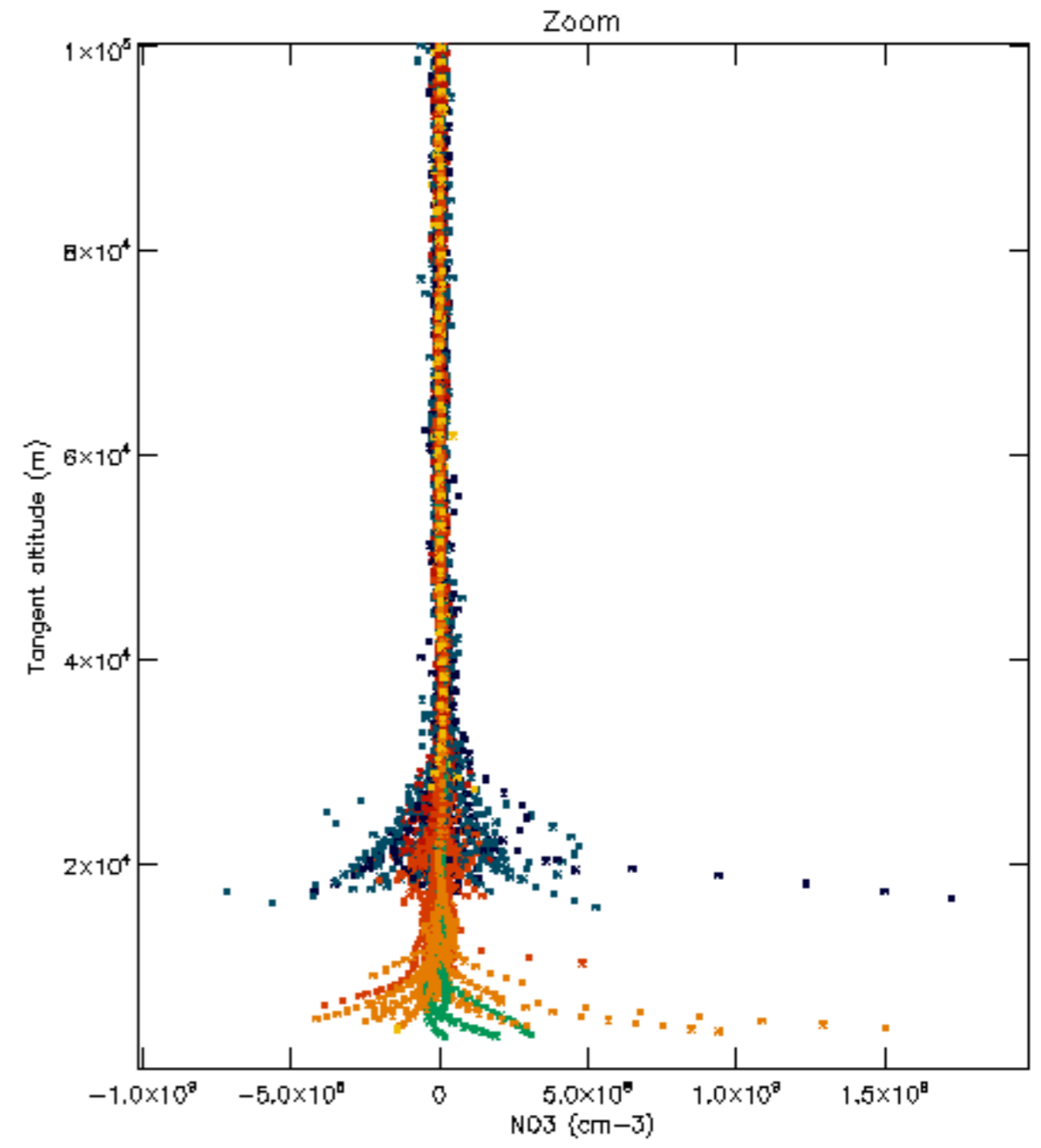
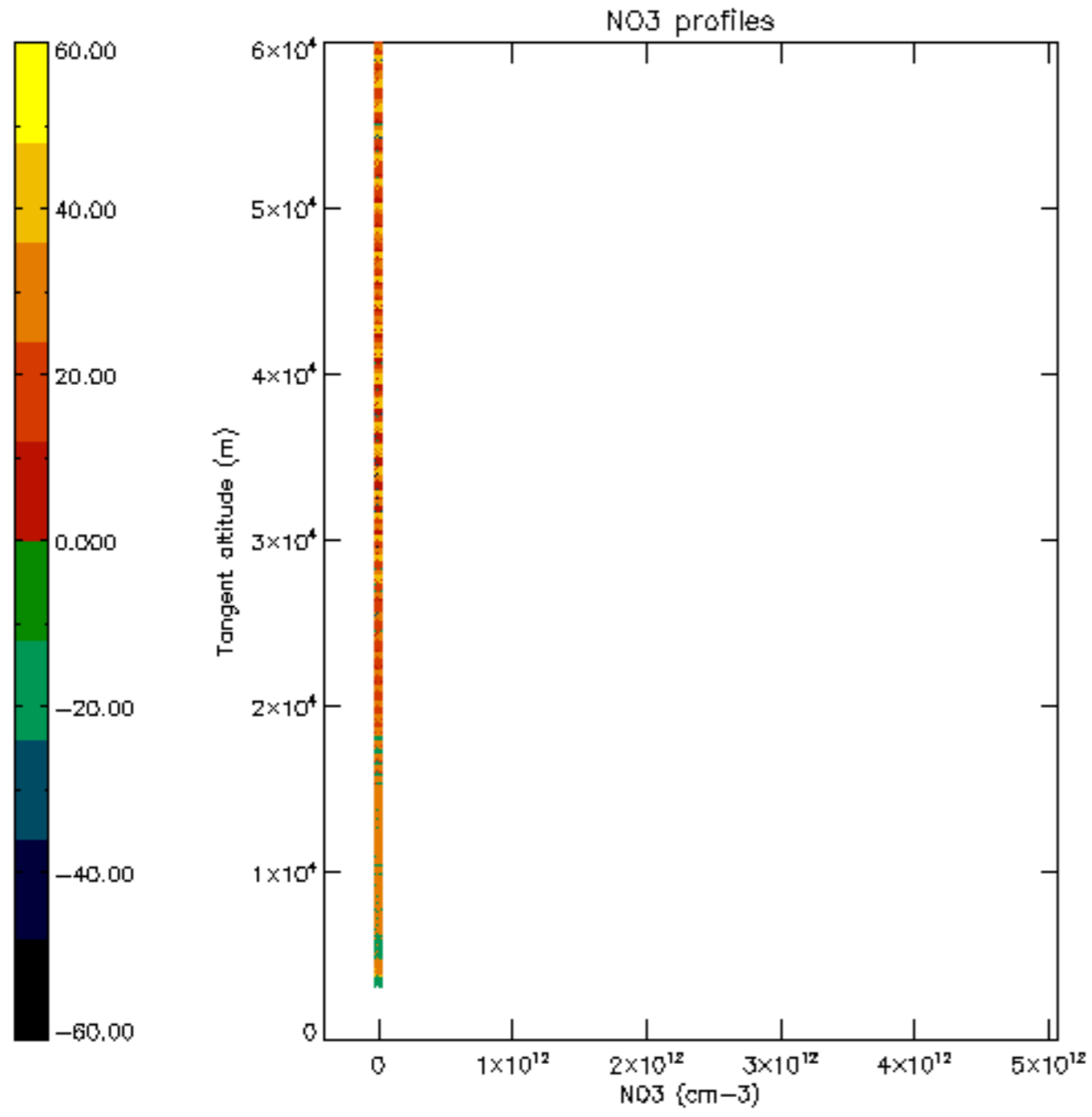


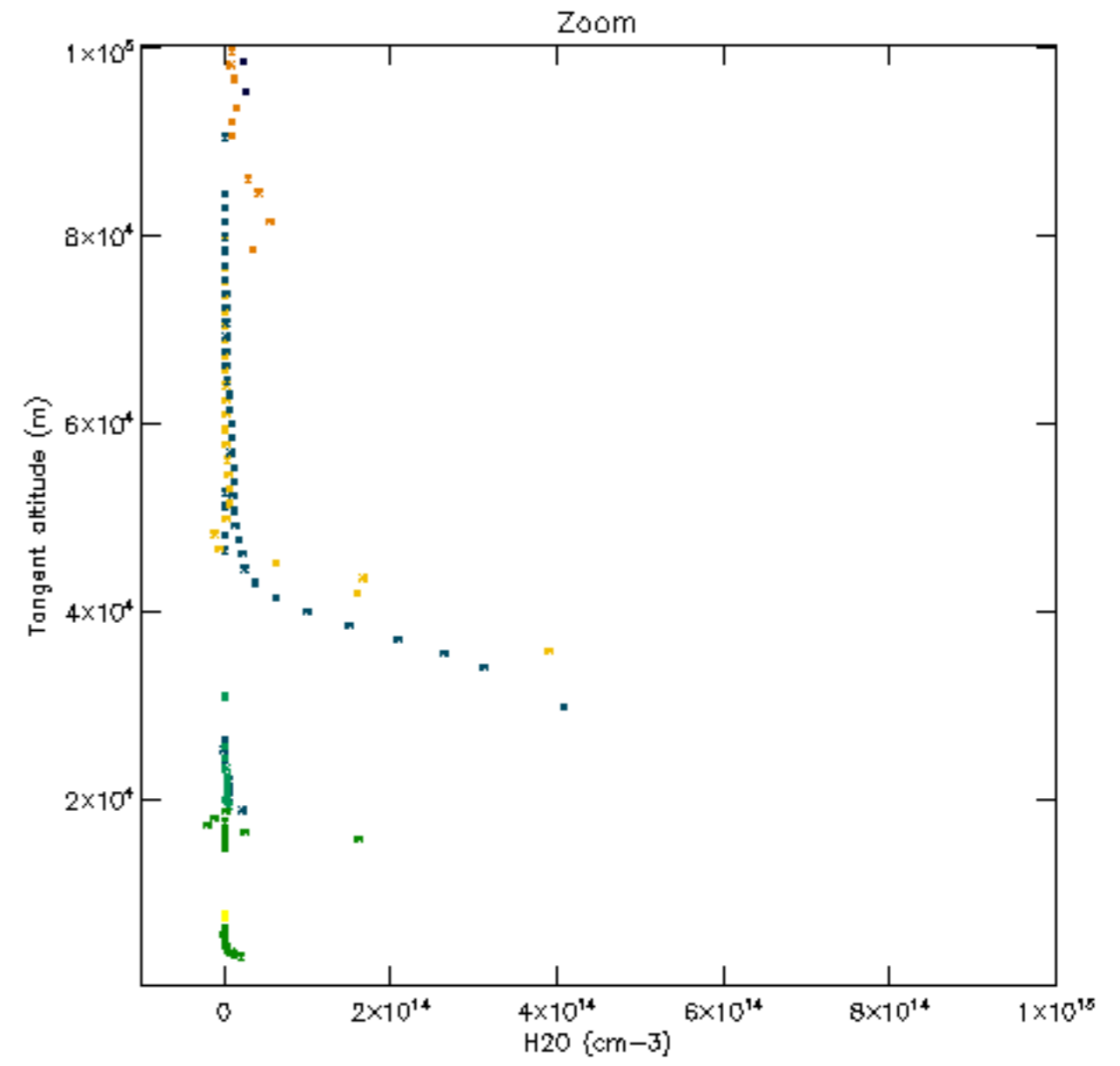
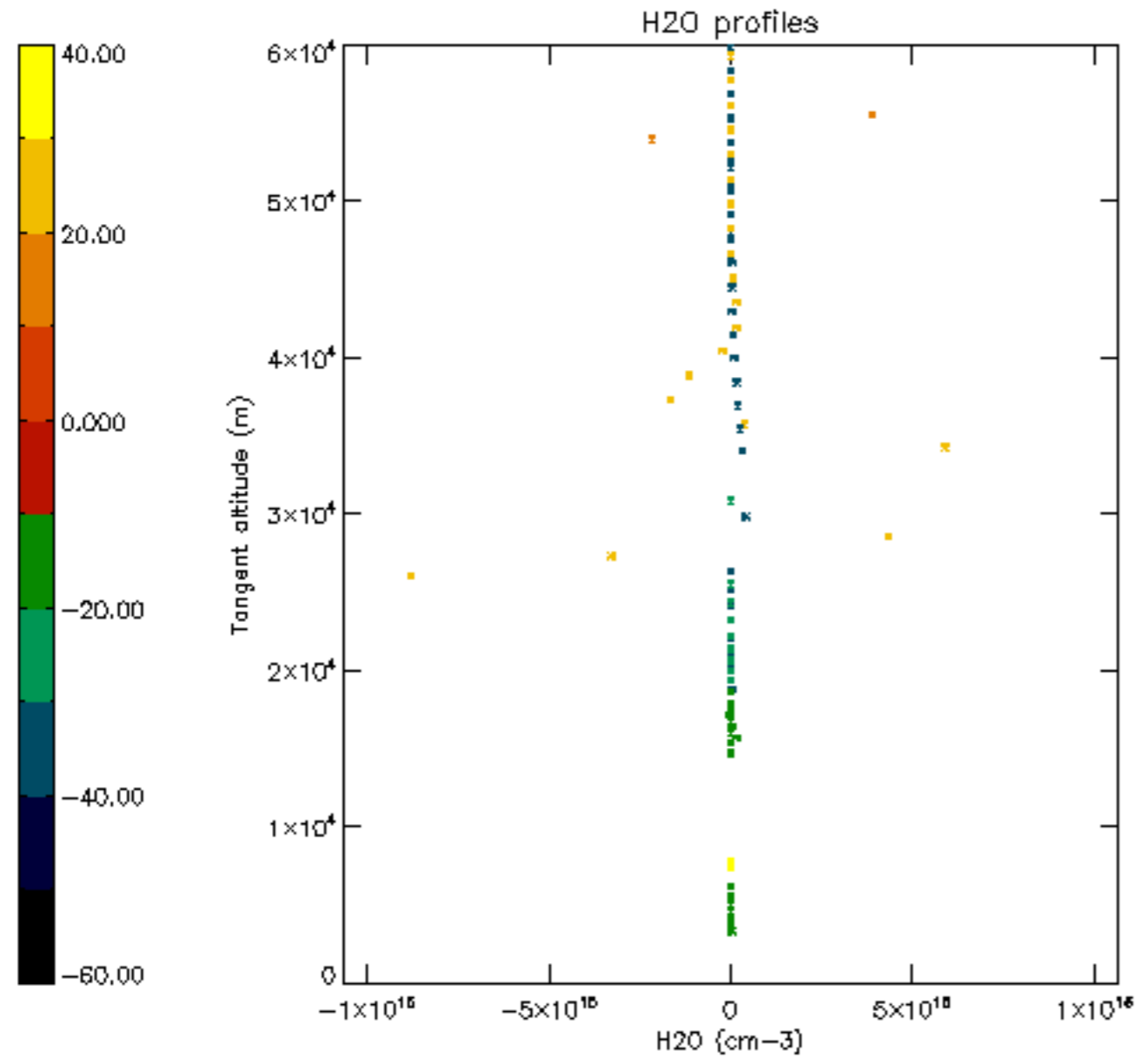


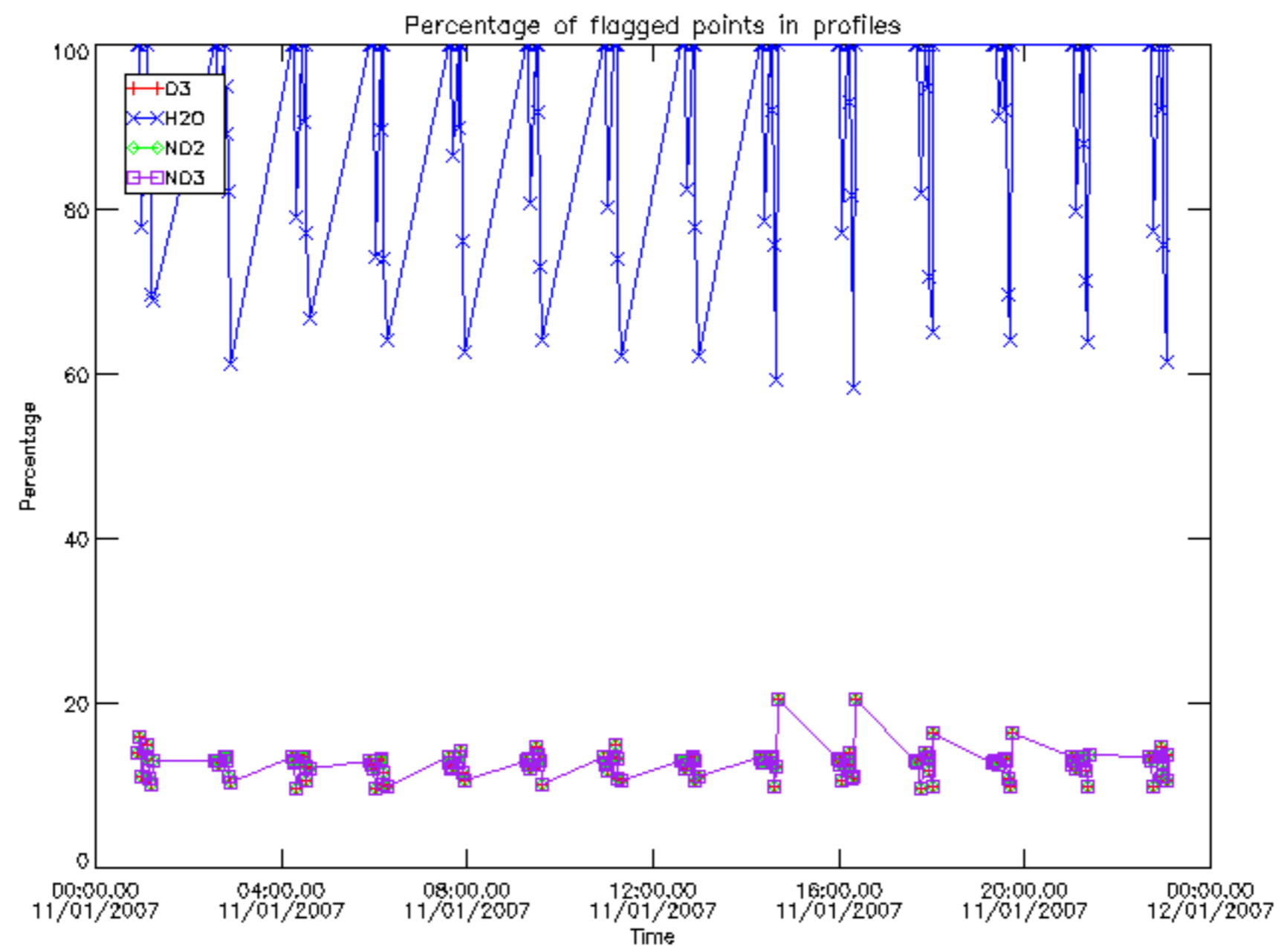




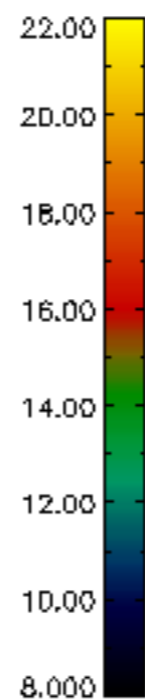
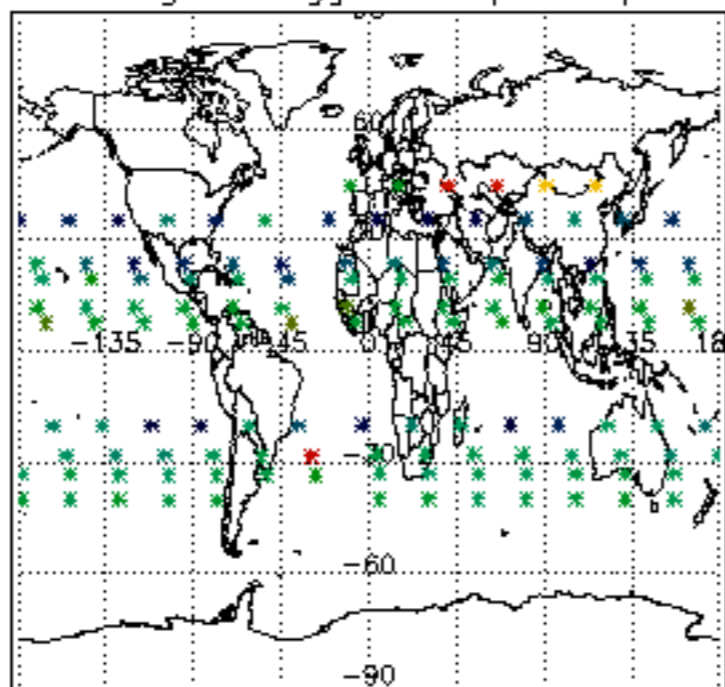




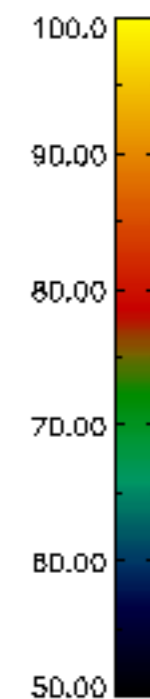
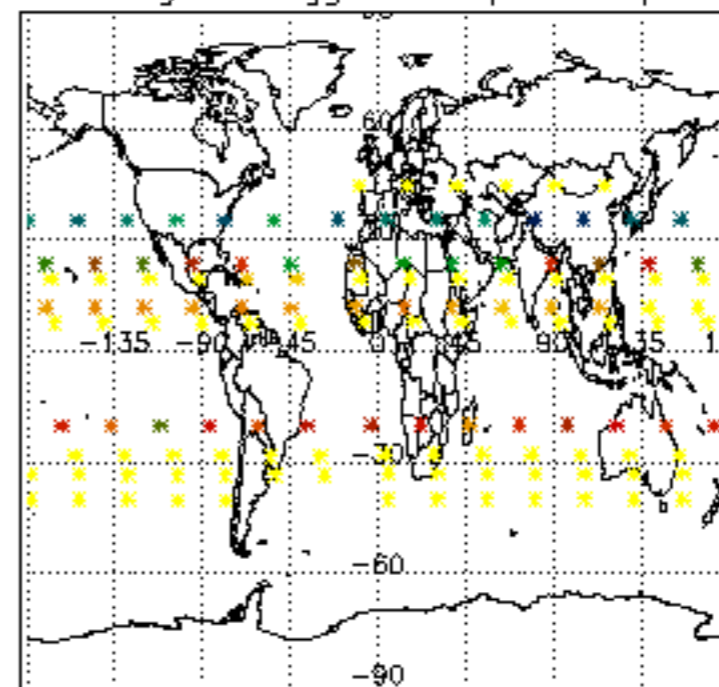




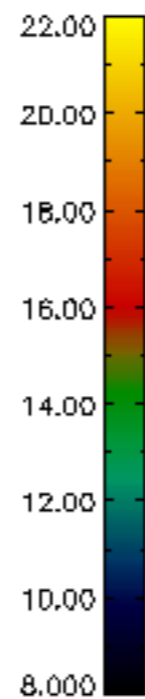
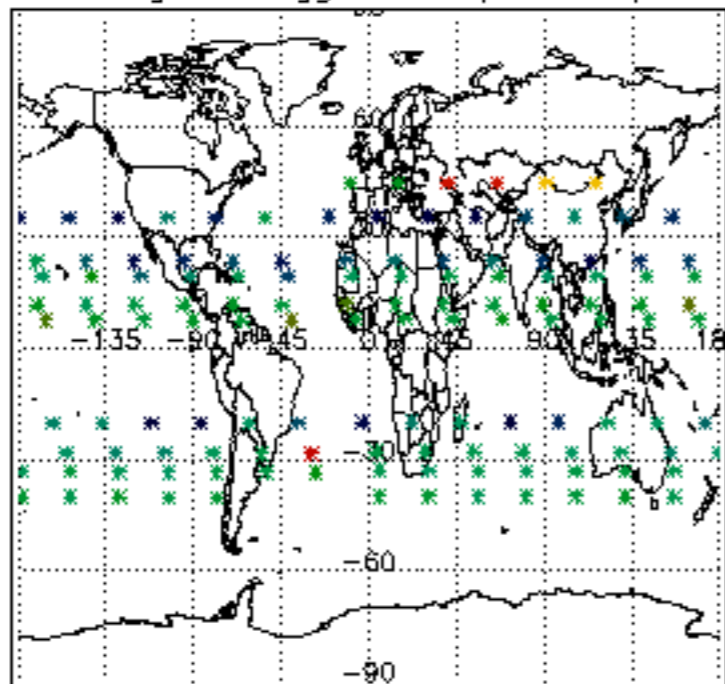
Percentage of flagged data per D3 profile



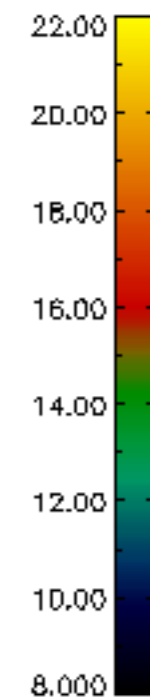
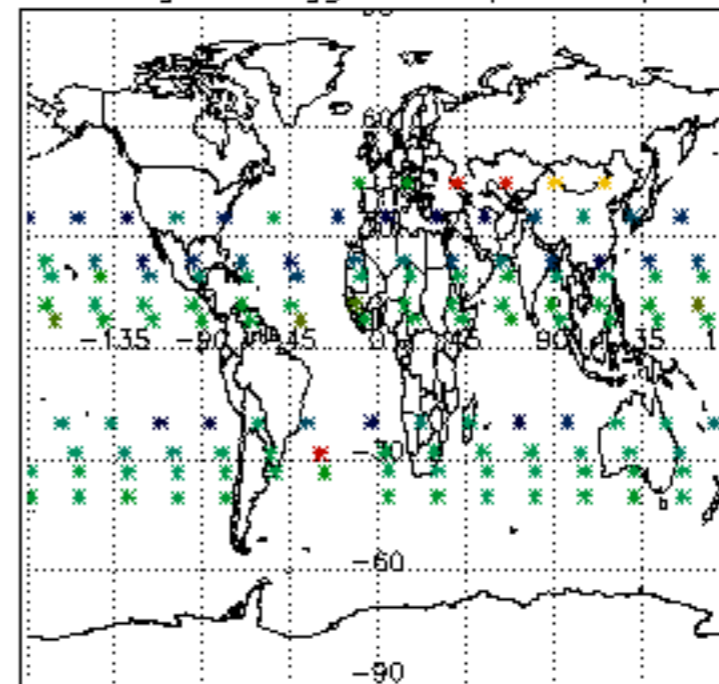
Percentage of flagged data per H2O profile

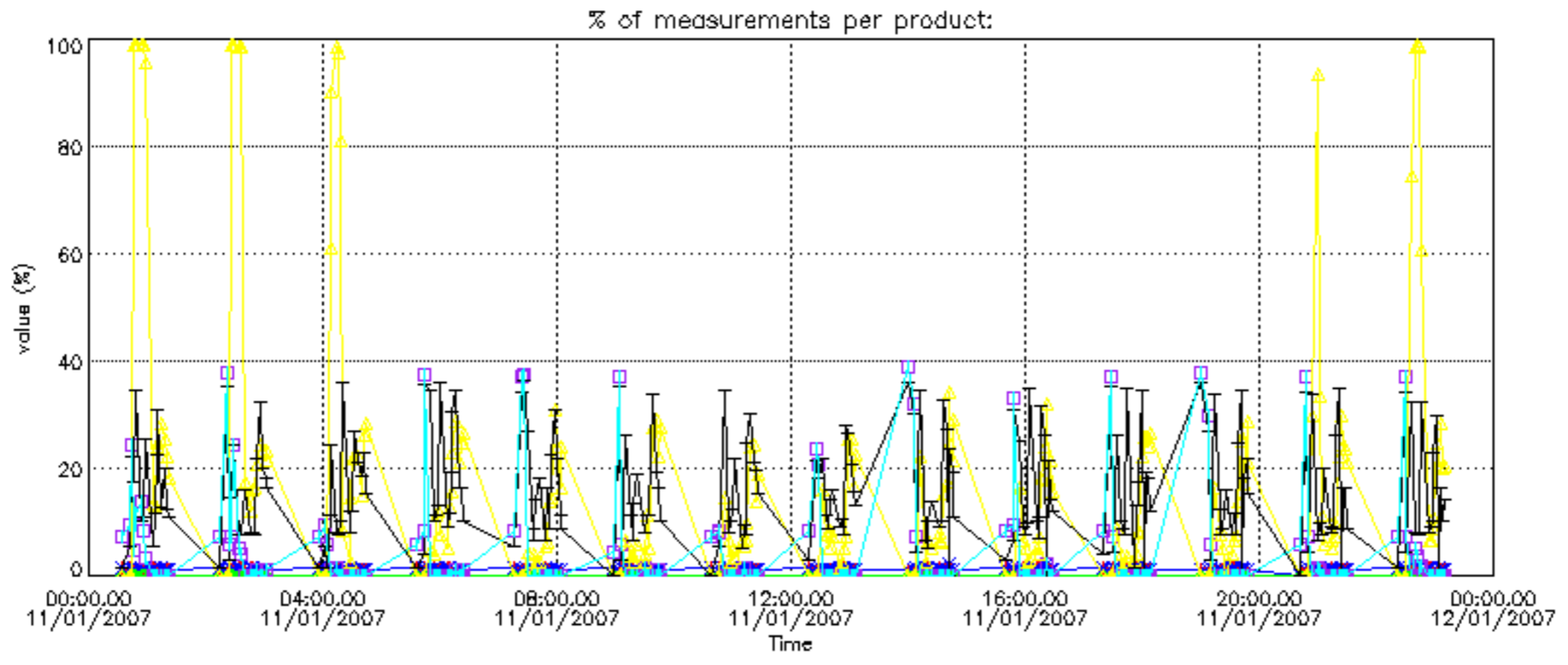


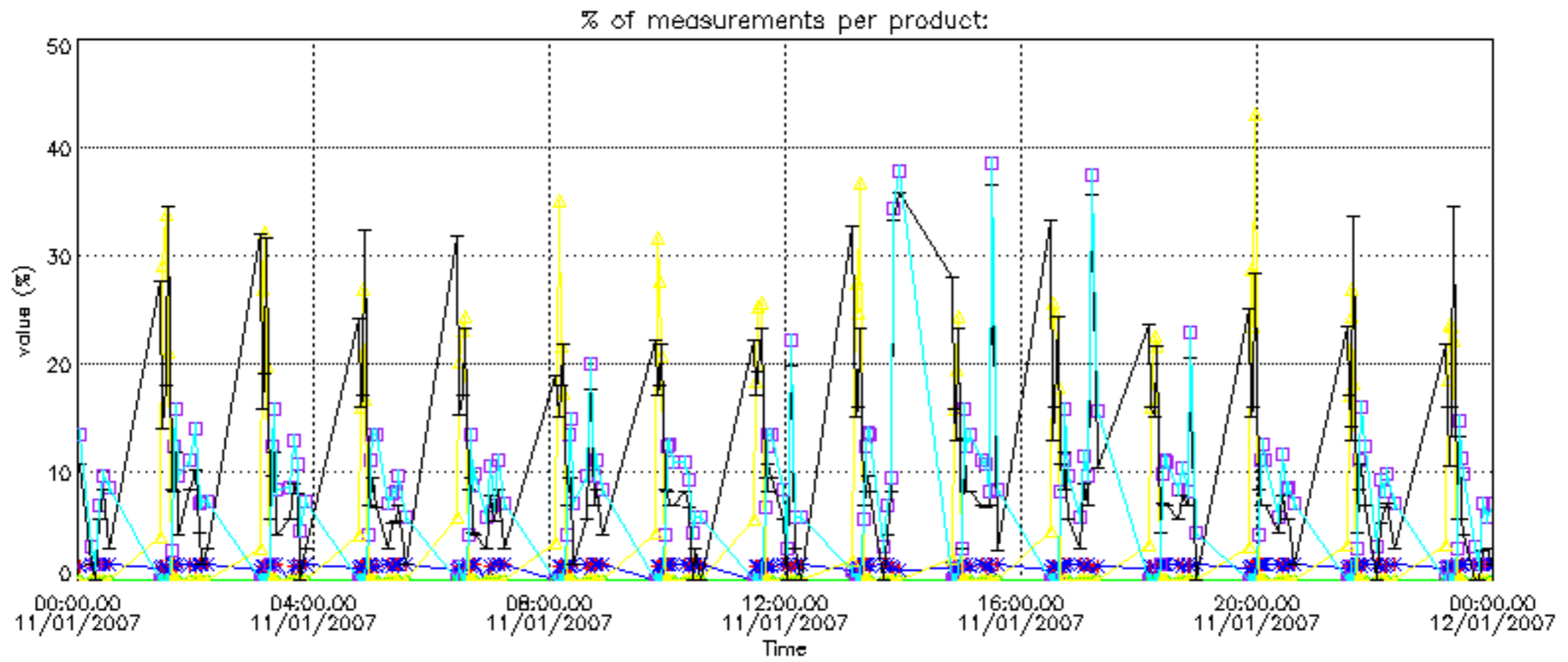
Percentage of flagged data per NO2 profile



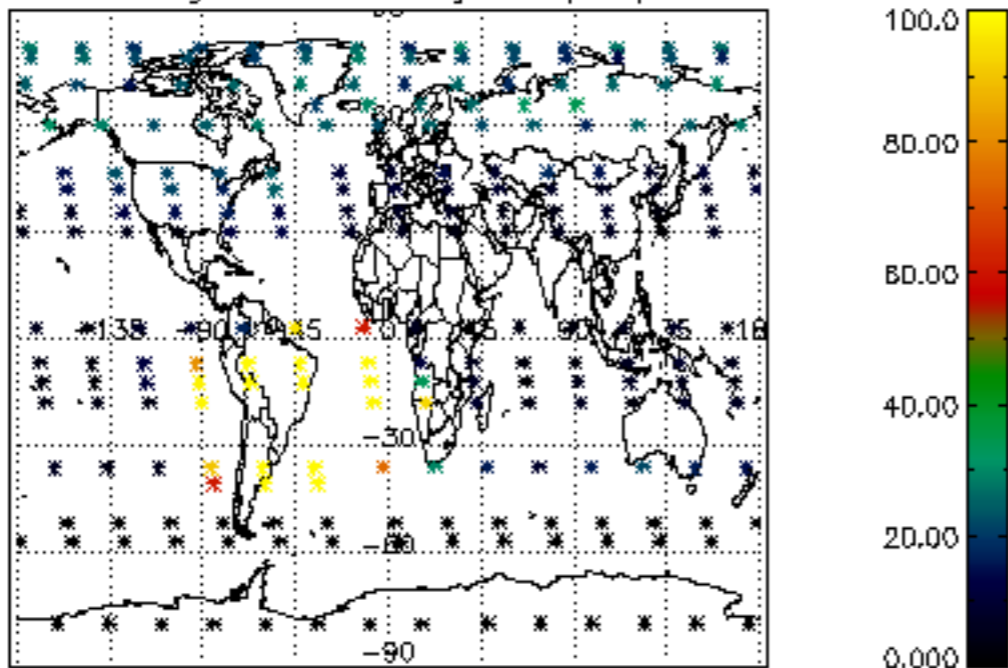
Percentage of flagged data per NO3 profile



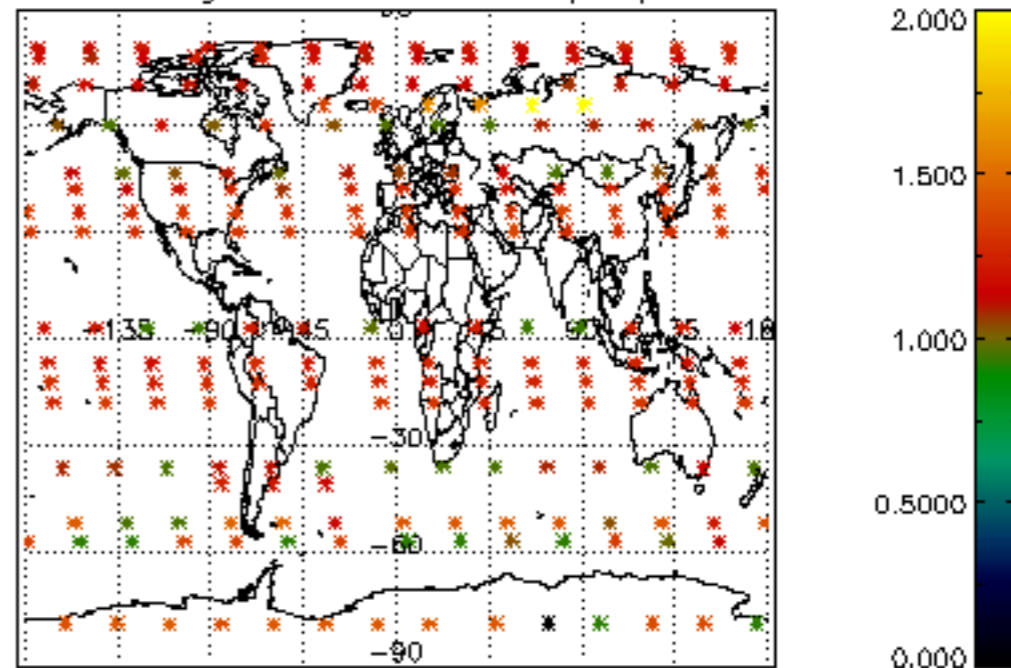




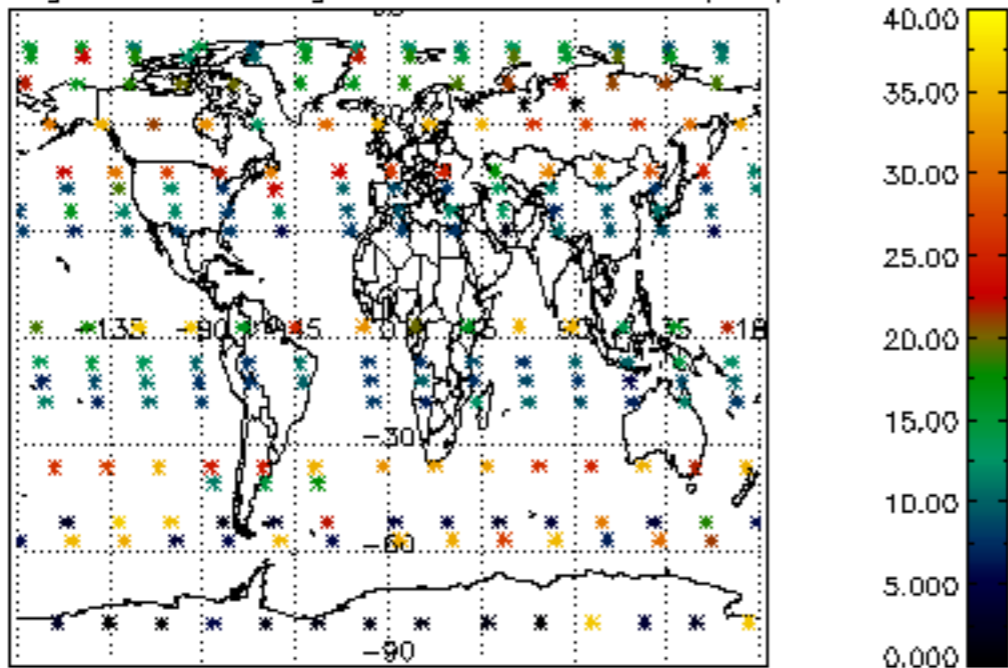
Percentage of cosmic ray hits per profile



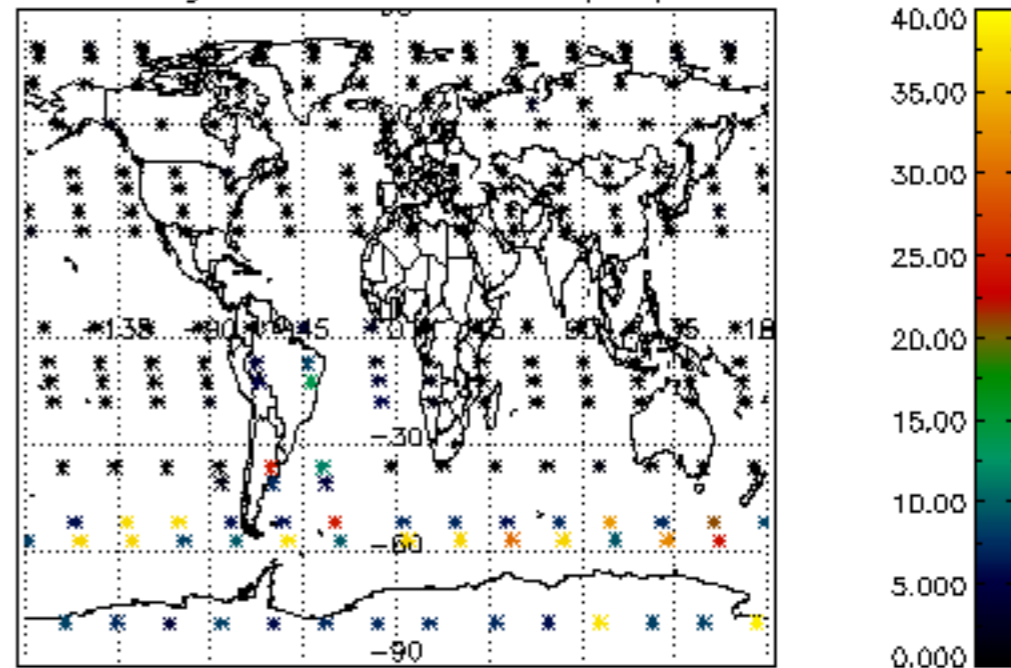
Percentage of datation errors per profile



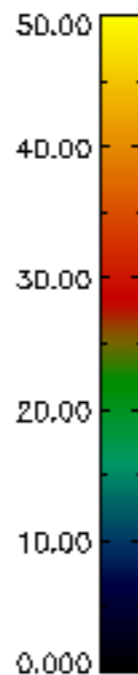
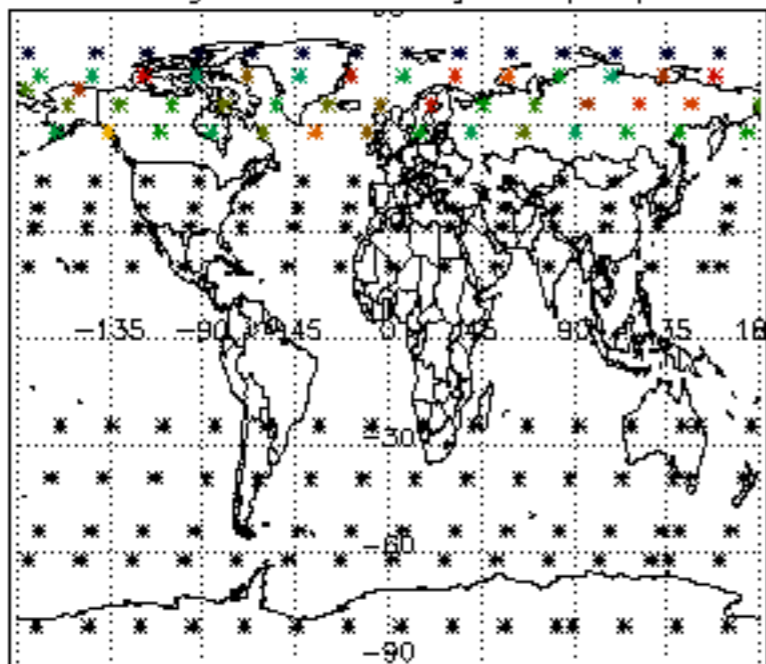
Percentage of star falling outside central band per profile



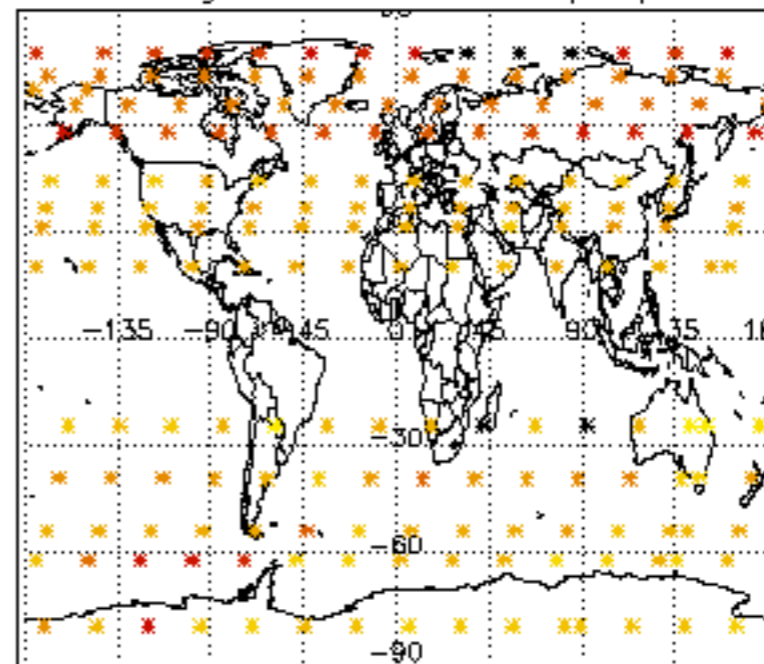
Percentage of saturation errors per profile



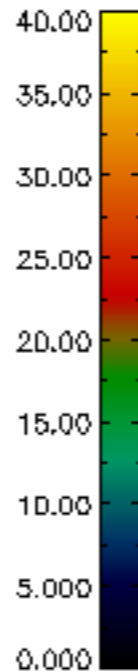
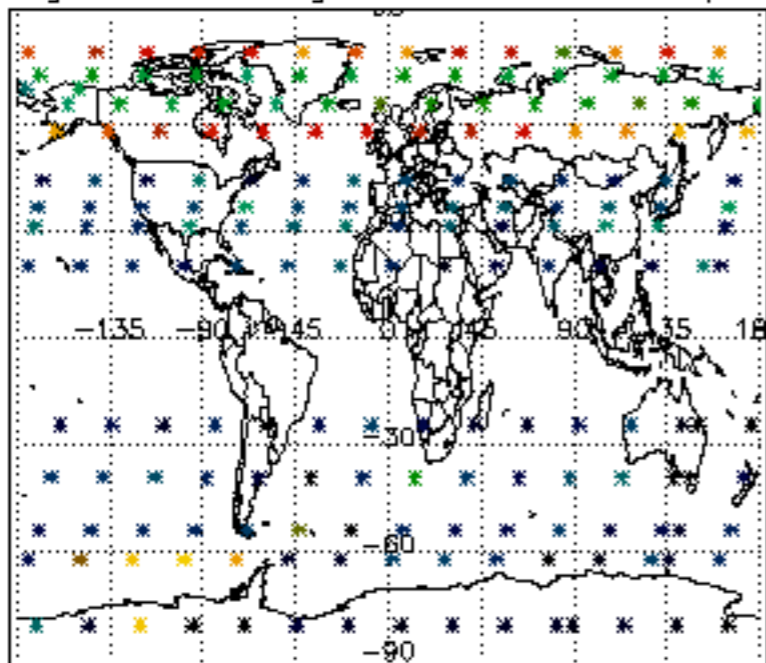
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

