

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	25APR2013 08:52:28
Data source version	GOMOS/6.01
Start time of products	16-01-2008 (16JAN2008 00:00:00)
Stop time of products	17-01-2008 (17JAN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	316
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

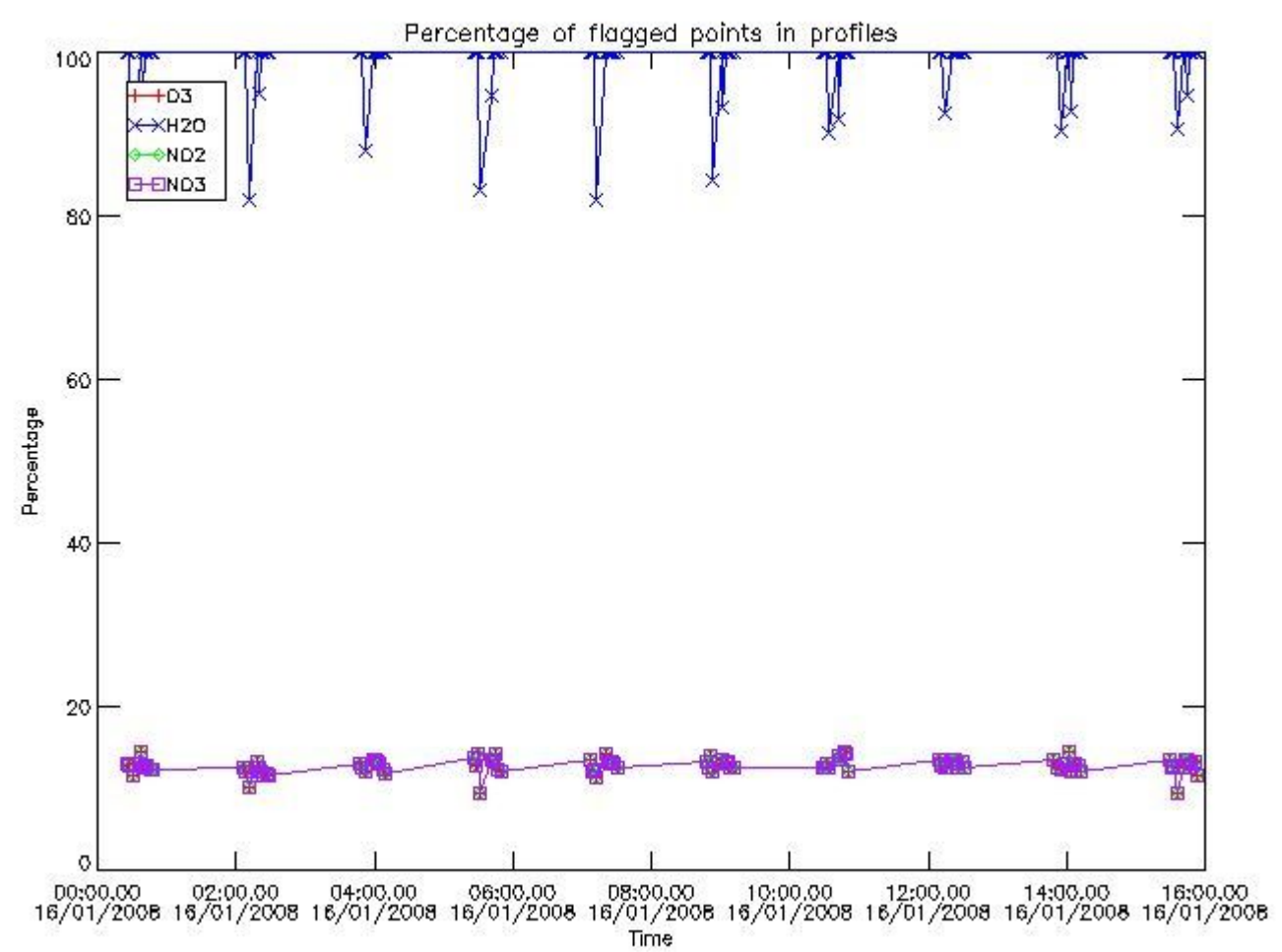
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20080116_000236_000000542065_00116_30731_8485.N1	16-JAN-2008 00:02:36	Bright	54.000	133	40Zet Her	2.8070	6000.0	108	30731	No
2	GOM_NL__2PRFIN20080116_000542_000000552065_00116_30731_8486.N1	16-JAN-2008 00:05:42	Bright	55.000	127	27Bet Her	2.7810	4700.0	110	30731	No
3	GOM_NL__2PRFIN20080116_000724_000000332065_00116_30731_8487.N1	16-JAN-2008 00:07:24	Bright	33.000	59	55Alp Oph	2.0800	8900.0	66	30731	No
4	GOM_NL__2PRFIN20080116_001320_000000402065_00116_30731_8488.N1	16-JAN-2008 00:13:20	Bright	39.500	120	1Del Oph	2.7340	3200.0	79	30731	No
5	GOM_NL__2PRFIN20080116_001442_000000512065_00116_30731_8489.N1	16-JAN-2008 00:14:42	Bright	50.500	98	13Zet Oph	2.5710	30000.	101	30731	No
6	GOM_NL__2PRFIN20080116_001910_000000472065_00116_30731_8490.N1	16-JAN-2008 00:19:10	Twilight	46.500	16	21Alp Sco	1.0200	3000.0	93	30731	No
7	GOM_NL__2PRFIN20080116_002051_000000422065_00116_30731_8491.N1	16-JAN-2008 00:20:51	Twilight	42.000	75	26Eps Sco	2.2910	4250.0	84	30731	No
8	GOM_NL__2PRFIN20080116_002610_000000392065_00116_30731_8492.N1	16-JAN-2008 00:26:10	Dark	39.000	109	Bet Lup	2.6770	26000.	78	30731	No
9	GOM_NL__2PRFIN20080116_002741_000000402065_00116_30731_8493.N1	16-JAN-2008 00:27:41	Dark	40.000	78	Alp Lup	2.3040	28000.	80	30731	No
10	GOM_NL__2PRFIN20080116_003016_000000442065_00117_30732_8585.N1	16-JAN-2008 00:30:16	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	30732	No
11	GOM_NL__2PRFIN20080116_003754_000000392065_00117_30732_8586.N1	16-JAN-2008 00:37:54	Dark	38.500	124	The Car	2.7640	30000.	77	30732	No
12	GOM_NL__2PRFIN20080116_003915_000000412065_00117_30732_8587.N1	16-JAN-2008 00:39:15	Dark	41.000	29	Bet Car	1.6720	10200.	82	30732	No
13	GOM_NL__2PRFIN20080116_004111_000000412065_00117_30732_8588.N1	16-JAN-2008 00:41:11	Dark	40.500	71	lot Car	2.2460	7700.0	81	30732	No
14	GOM_NL__2PRFIN20080116_004303_000000402065_00117_30732_8589.N1	16-JAN-2008 00:43:03	Dark	40.000	46	Del Vel	1.9540	10600.	80	30732	No
15	GOM_NL__2PRFIN20080116_004546_000000422065_00117_30732_8590.N1	16-JAN-2008 00:45:46	Dark	41.500	34	Gam2Vel	1.7930	23000.	83	30732	No
16	GOM_NL__2PRFIN20080116_004755_000000422065_00117_30732_8591.N1	16-JAN-2008 00:47:55	Dark	41.500	70	Zet Pup	2.2460	39000.	83	30732	No
17	GOM_NL__2PRFIN20080116_004935_000000442065_00117_30732_8592.N1	16-JAN-2008 00:49:35	Straylight	43.500	117	Pi Pup	2.7060	3800.0	87	30732	No
18	GOM_NL__2PRFIN20080116_005208_000000422065_00117_30732_8593.N1	16-JAN-2008 00:52:08	Straylight	41.500	23	21Eps CMa	1.5020	26000.	83	30732	No
19	GOM_NL__2PRFIN20080116_005333_000000402065_00117_30732_8594.N1	16-JAN-2008 00:53:33	Straylight	40.000	179	24Omi2CMa	3.0320	24000.	80	30732	No
20	GOM_NL__2PRFIN20080116_005547_000000532065_00117_30732_8595.N1	16-JAN-2008 00:55:47	Straylight	53.000	1	9Alp CMa	-1.4400	11000.	106	30732	No
21	GOM_NL__2PRFIN20080116_005816_000000412065_00117_30732_8596.N1	16-JAN-2008 00:58:16	Straylight	41.000	56	53Kap Ori	2.0650	30000.	82	30732	No
22	GOM_NL__2PRFIN20080116_005926_000000392065_00117_30732_8597.N1	16-JAN-2008 00:59:26	Straylight	39.000	125	44lot Ori	2.7700	30000.	78	30732	No
23	GOM_NL__2PRFIN20080116_010044_000000412065_00117_30732_8598.N1	16-JAN-2008 01:00:44	Twilight	40.500	30	46Eps Ori	1.6940	30000.	81	30732	No
24	GOM_NL__2PRFIN20080116_010257_000000522065_00117_30732_8599.N1	16-JAN-2008 01:02:57	Twilight	51.500	14	58Alp Ori	0.87000	3000.0	103	30732	No
25	GOM_NL__2PRFIN20080116_010527_000000422065_00117_30732_8600.N1	16-JAN-2008 01:05:27	Bright	42.000	44	24Gam Gem	1.9280	11000.	84	30732	No
26	GOM_NL__2PRFIN20080116_010654_000000342065_00117_30732_8601.N1	16-JAN-2008 01:06:54	Bright	34.000	176	23Zet Tau	3.0200	22000.	68	30732	No
27	GOM_NL__2PRFIN20080116_010903_000000372065_00117_30732_8602.N1	16-JAN-2008 01:09:03	Bright	36.500	28	12Bet Tau	1.6500	15200.	73	30732	No
28	GOM_NL__2PRFIN20080116_011038_000000382065_00117_30732_8603.N1	16-JAN-2008 01:10:38	Bright	37.500	114	3lot Aur	2.6930	4600.0	75	30732	No
29	GOM_NL__2PRFIN20080116_011330_000000372065_00117_30732_8604.N1	16-JAN-2008 01:13:30	Bright	37.000	42	34Bet Aur	1.9000	10200.	74	30732	No
30	GOM_NL__2PRFIN20080116_012603_000000362065_00117_30732_8605.N1	16-JAN-2008 01:26:03	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	30732	No
31	GOM_NL__2PRFIN20080116_013420_000000382065_00117_30732_8606.N1	16-JAN-2008 01:34:20	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	30732	No
32	GOM_NL__2PRFIN20080116_013655_000000522065_00117_30732_8607.N1	16-JAN-2008 01:36:55	Bright	52.000	130	23Bet Dra	2.7990	5800.0	104	30732	No
33	GOM_NL__2PRFIN20080116_014312_000000542065_00117_30732_8608.N1	16-JAN-2008 01:43:12	Bright	54.000	133	40Zet Her	2.8070	6000.0	108	30732	No
34	GOM_NL__2PRFIN20080116_014618_000000552065_00117_30732_8609.N1	16-JAN-2008 01:46:18	Bright	55.000	127	27Bet Her	2.7810	4700.0	110	30732	No
35	GOM_NL__2PRFIN20080116_014800_000000332065_00117_30732_8610.N1	16-JAN-2008 01:48:00	Bright	33.000	59	55Alp Oph	2.0800	8900.0	66	30732	No
36	GOM_NL__2PRFIN20080116_015357_000000562065_00117_30732_8611.N1	16-JAN-2008 01:53:57	Bright	56.000	120	1Del Oph	2.7340	3200.0	112	30732	No
37	GOM_NL__2PRFIN20080116_015518_000000472065_00117_30732_8612.N1	16-JAN-2008 01:55:18	Bright	47.000	98	13Zet Oph	2.5710	30000.	94	30732	No
38	GOM_NL__2PRFIN20080116_015946_000000522065_00117_30732_8613.N1	16-JAN-2008 01:59:46	Twilight	52.000	16	21Alp Sco	1.0200	3000.0	104	30732	No
39	GOM_NL__2PRFIN20080116_020127_000000392065_00117_30732_8614.N1	16-JAN-2008 02:01:27	Twilight	39.000	75	26Eps Sco	2.2910	4250.0	78	30732	No
40	GOM_NL__2PRFIN20080116_020647_000000412065_00117_30732_8615.N1	16-JAN-2008 02:06:47	Dark	41.000	109	Bet Lup	2.6770	26000.	82	30732	No
41	GOM_NL__2PRFIN20080116_020817_000000422065_00117_30732_8616.N1	16-JAN-2008 02:08:17	Dark	42.000	78	Alp Lup	2.3040	28000.	84	30732	No
42	GOM_NL__2PRFIN20080116_021052_000000512065_00118_30733_8586.N1	16-JAN-2008 02:10:52	Dark	50.500	4	Alp1Cen	-0.010000	5800.0	101	30733	No

279	GOM_NL__2PRFIN20080116_142415_000000352065_00125_30740_8673.N1	16-JAN-2008 14:24:15	Straylight	35.000	125	44lot Ori	2.7700	30000.	70	30740	No
280	GOM_NL__2PRFIN20080116_142533_000000372065_00125_30740_8674.N1	16-JAN-2008 14:25:33	Twilight	37.000	30	46Eps Ori	1.6940	30000.	74	30740	No
281	GOM_NL__2PRFIN20080116_142745_000000452065_00125_30740_8675.N1	16-JAN-2008 14:27:45	Twilight	44.500	14	58Alp Ori	0.87000	3000.0	89	30740	No
282	GOM_NL__2PRFIN20080116_143014_000000512065_00125_30740_8676.N1	16-JAN-2008 14:30:14	Bright	50.500	44	24Gam Gem	1.9280	11000.	101	30740	No
283	GOM_NL__2PRFIN20080116_143142_000000352065_00125_30740_8677.N1	16-JAN-2008 14:31:42	Bright	35.000	176	23Zet Tau	3.0200	22000.	70	30740	No
284	GOM_NL__2PRFIN20080116_143352_000000372065_00125_30740_8678.N1	16-JAN-2008 14:33:52	Bright	37.000	28	12Bet Tau	1.6500	15200.	74	30740	No
285	GOM_NL__2PRFIN20080116_143528_000000382065_00125_30740_8679.N1	16-JAN-2008 14:35:28	Bright	38.000	114	3lot Aur	2.6930	4600.0	76	30740	No
286	GOM_NL__2PRFIN20080116_143817_000000372065_00125_30740_8680.N1	16-JAN-2008 14:38:17	Bright	36.500	42	34Bet Aur	1.9000	10200.	73	30740	No
287	GOM_NL__2PRFIN20080116_145051_000000322065_00125_30740_8681.N1	16-JAN-2008 14:50:51	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	30740	No
288	GOM_NL__2PRFIN20080116_145907_000000382065_00125_30740_8682.N1	16-JAN-2008 14:59:07	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	30740	No
289	GOM_NL__2PRFIN20080116_150143_000000342065_00125_30740_8683.N1	16-JAN-2008 15:01:43	Bright	34.000	130	23Bet Dra	2.7990	5800.0	68	30740	No
290	GOM_NL__2PRFIN20080116_150800_000000362065_00125_30740_8684.N1	16-JAN-2008 15:08:00	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	30740	No
291	GOM_NL__2PRFIN20080116_151108_000000382065_00125_30740_8685.N1	16-JAN-2008 15:11:08	Bright	37.500	127	27Bet Her	2.7810	4700.0	75	30740	No
292	GOM_NL__2PRFIN20080116_151249_000000342065_00125_30740_8686.N1	16-JAN-2008 15:12:49	Bright	33.500	59	55Alp Oph	2.0800	8900.0	67	30740	No
293	GOM_NL__2PRFIN20080116_151848_000000532065_00125_30740_8687.N1	16-JAN-2008 15:18:48	Bright	53.000	120	1Del Oph	2.7340	3200.0	106	30740	No
294	GOM_NL__2PRFIN20080116_152009_000000542065_00125_30740_8688.N1	16-JAN-2008 15:20:09	Bright	54.000	98	13Zet Oph	2.5710	30000.	108	30740	No
295	GOM_NL__2PRFIN20080116_152437_000000472065_00125_30740_8689.N1	16-JAN-2008 15:24:37	Twilight	47.000	16	21Alp Sco	1.0200	3000.0	94	30740	No
296	GOM_NL__2PRFIN20080116_152617_000000422065_00125_30740_8690.N1	16-JAN-2008 15:26:17	Twilight	42.000	75	26Eps Sco	2.2910	4250.0	84	30740	No
297	GOM_NL__2PRFIN20080116_152953_000000382065_00125_30740_8691.N1	16-JAN-2008 15:29:53	Dark	38.000	131	Gam Lup	2.8000	26000.	76	30740	No
298	GOM_NL__2PRFIN20080116_153139_000000412065_00125_30740_8692.N1	16-JAN-2008 15:31:39	Dark	40.500	109	Bet Lup	2.6770	26000.	81	30740	No
299	GOM_NL__2PRFIN20080116_153310_000000402065_00125_30740_8693.N1	16-JAN-2008 15:33:10	Dark	40.000	78	Alp Lup	2.3040	28000.	80	30740	No
300	GOM_NL__2PRFIN20080116_153543_000000542065_00126_30741_8672.N1	16-JAN-2008 15:35:43	Dark	54.000	4	Alp1Cen	-0.010000	5800.0	108	30741	No
301	GOM_NL__2PRFIN20080116_154031_000000412065_00126_30741_8673.N1	16-JAN-2008 15:40:31	Dark	40.500	129	Del Cru	2.7930	26000.	81	30741	No
302	GOM_NL__2PRFIN20080116_154321_000000382065_00126_30741_8674.N1	16-JAN-2008 15:43:21	Dark	37.500	124	The Car	2.7640	30000.	75	30741	No
303	GOM_NL__2PRFIN20080116_154442_000000382065_00126_30741_8675.N1	16-JAN-2008 15:44:42	Dark	37.500	29	Bet Car	1.6720	10200.	75	30741	No
304	GOM_NL__2PRFIN20080116_154638_000000412065_00126_30741_8676.N1	16-JAN-2008 15:46:38	Dark	40.500	71	lot Car	2.2460	7700.0	81	30741	No
305	GOM_NL__2PRFIN20080116_154830_000000392065_00126_30741_8677.N1	16-JAN-2008 15:48:30	Dark	39.000	46	Del Vel	1.9540	10600.	78	30741	No
306	GOM_NL__2PRFIN20080116_155113_000000392065_00126_30741_8678.N1	16-JAN-2008 15:51:13	Dark	38.500	34	Gam2Vel	1.7930	23000.	77	30741	No
307	GOM_NL__2PRFIN20080116_155321_000000442065_00126_30741_8679.N1	16-JAN-2008 15:53:21	Dark	44.000	70	Zet Pup	2.2460	39000.	88	30741	No
308	GOM_NL__2PRFIN20080116_155501_000000442065_00126_30741_8680.N1	16-JAN-2008 15:55:01	Straylight	43.500	117	Pi Pup	2.7060	3800.0	87	30741	No
309	GOM_NL__2PRFIN20080116_155733_000000422065_00126_30741_8681.N1	16-JAN-2008 15:57:33	Straylight	42.000	23	21Eps CMa	1.5020	26000.	84	30741	No
310	GOM_NL__2PRFIN20080116_155859_000000392065_00126_30741_8682.N1	16-JAN-2008 15:58:59	Straylight	38.500	179	24Omi2CMa	3.0320	24000.	77	30741	No
311	GOM_NL__2PRFIN20080116_160112_000000442065_00126_30741_8683.N1	16-JAN-2008 16:01:12	Straylight	43.500	1	9Alp CMa	-1.4400	11000.	87	30741	No
312	GOM_NL__2PRFIN20080116_160341_000000352065_00126_30741_8684.N1	16-JAN-2008 16:03:41	Straylight	35.000	56	53Kap Ori	2.0650	30000.	70	30741	No
313	GOM_NL__2PRFIN20080116_160452_000000362065_00126_30741_8685.N1	16-JAN-2008 16:04:52	Straylight	35.500	125	44lot Ori	2.7700	30000.	71	30741	No
314	GOM_NL__2PRFIN20080116_160609_000000392065_00126_30741_8686.N1	16-JAN-2008 16:06:09	Twilight	39.000	30	46Eps Ori	1.6940	30000.	78	30741	No
315	GOM_NL__2PRFIN20080116_160822_000000502065_00126_30741_8687.N1	16-JAN-2008 16:08:22	Twilight	50.000	14	58Alp Ori	0.87000	3000.0	100	30741	No
316	GOM_NL__2PRFIN20080116_161050_000000202065_00126_30741_8688.N1	16-JAN-2008 16:10:50	Twilight	19.500	44	24Gam Gem	1.9280	11000.	39	30741	No

3. Quality information per product

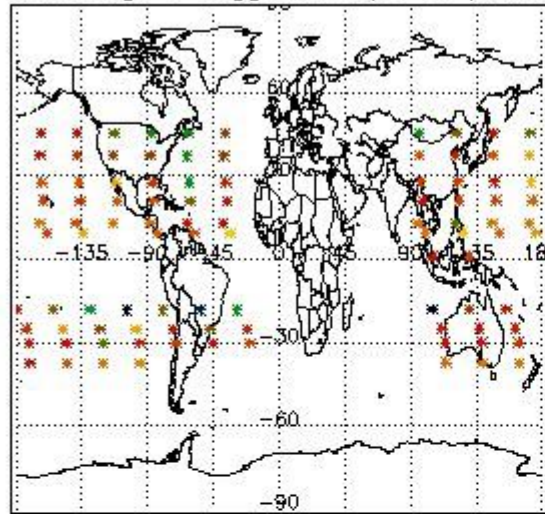
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

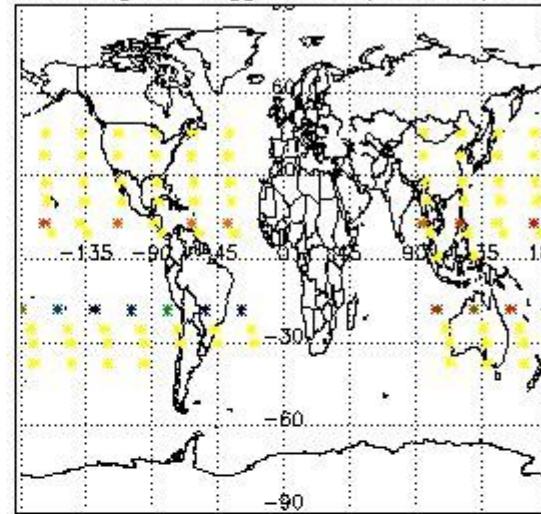


3.2 Plot quality information per product (world map)

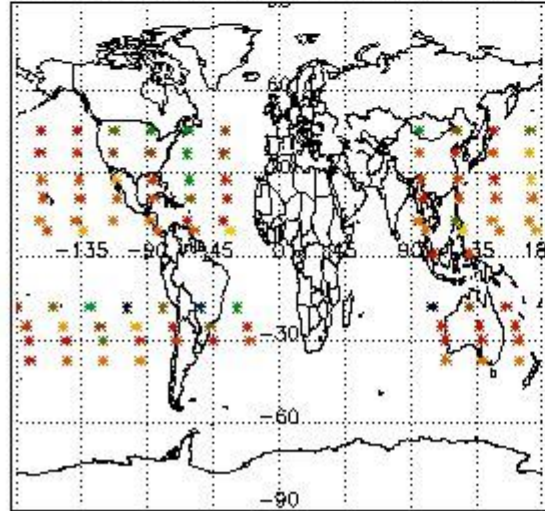
Percentage of flagged data per O3 profile



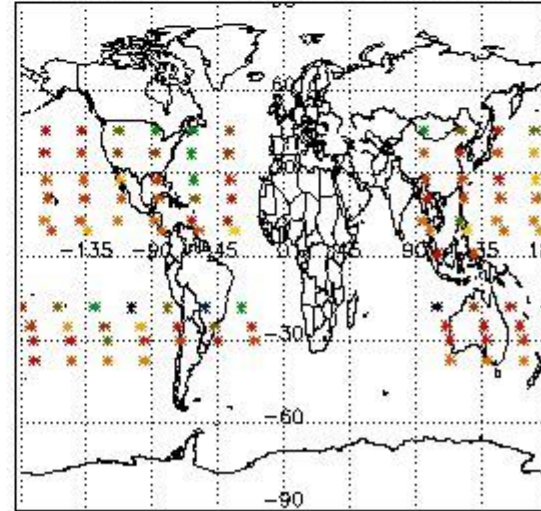
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

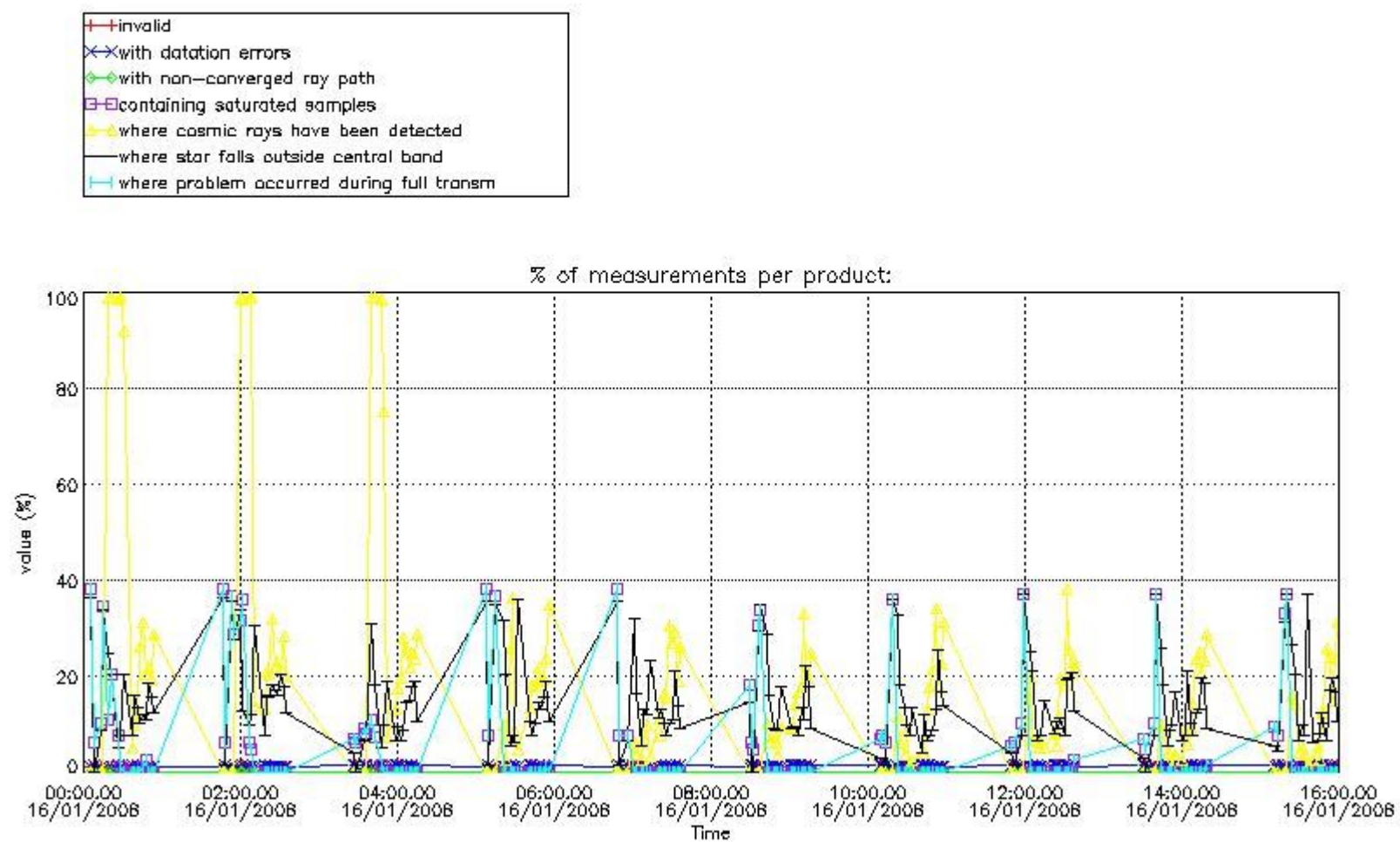


4. Level 1 quality information per product

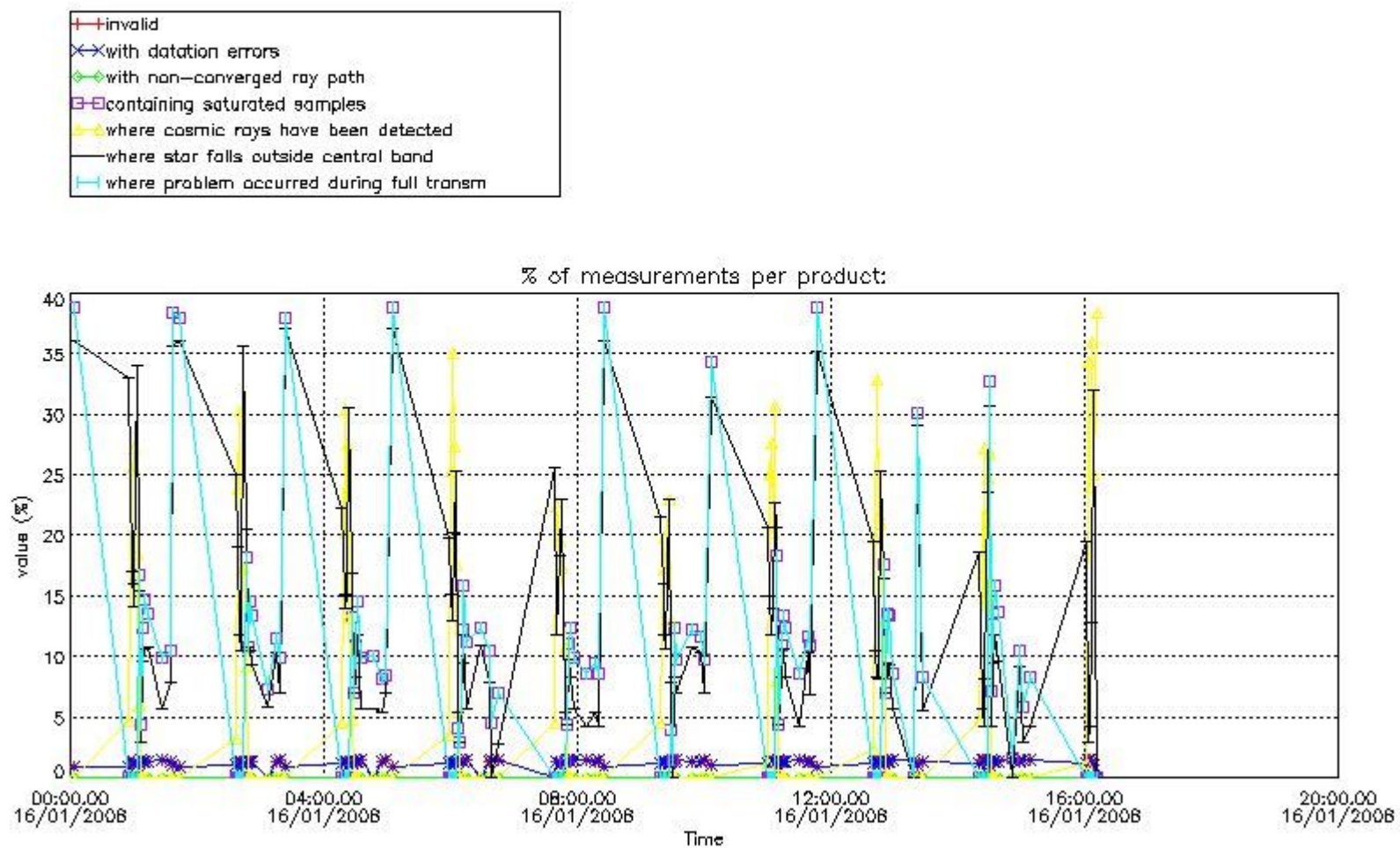
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

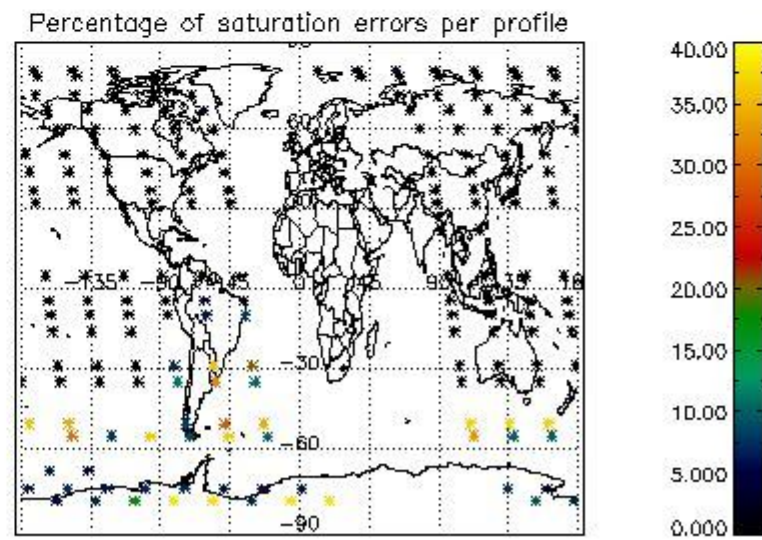
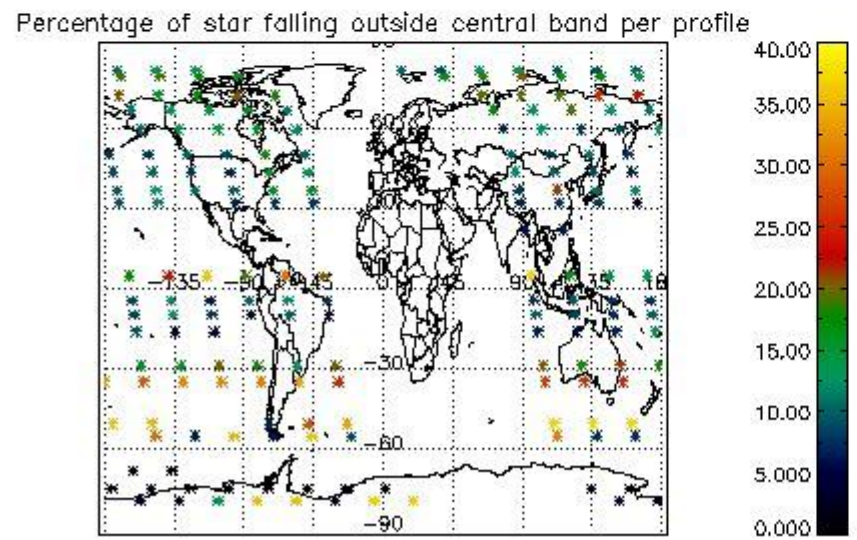
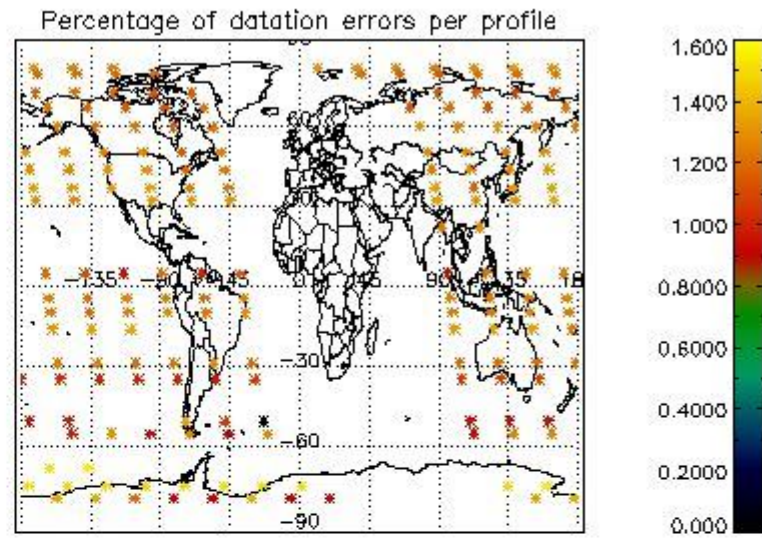
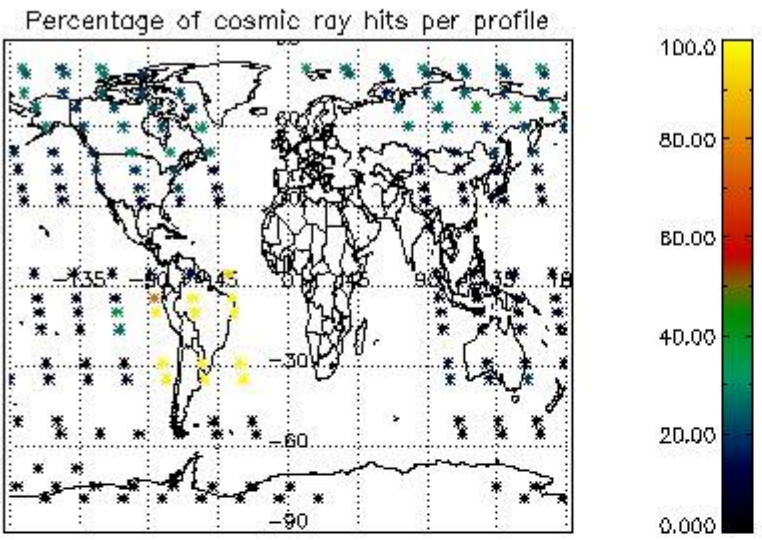
4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes



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

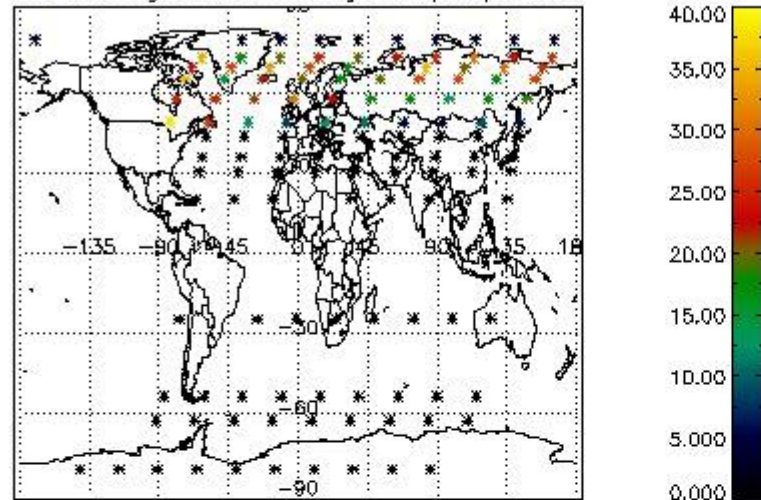


4.2 Plot quality information per product coming from level 1b processing (world map)
 4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes

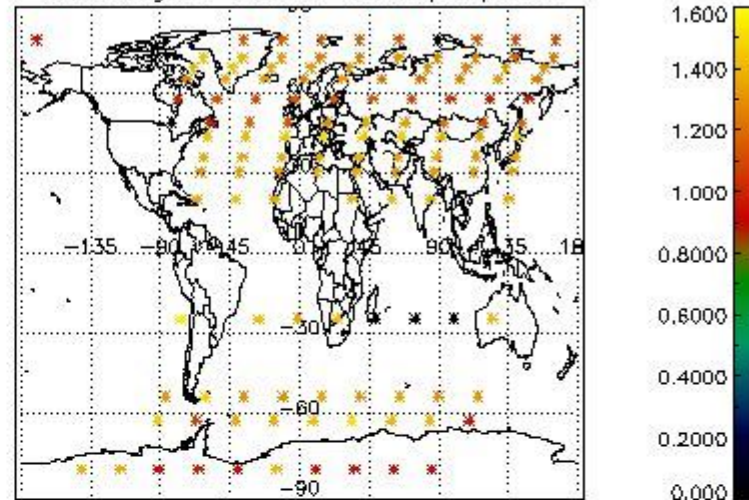


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

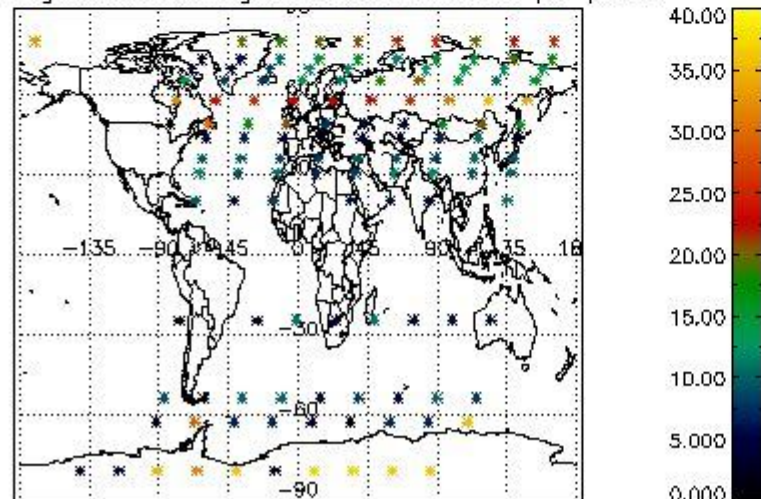
Percentage of cosmic ray hits per profile



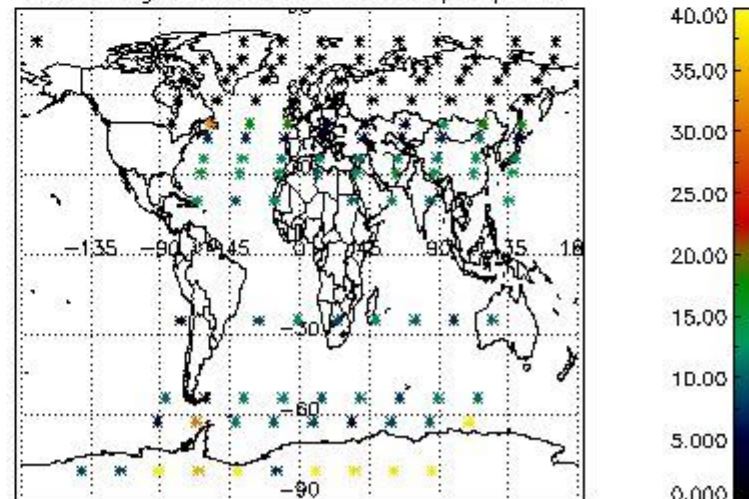
Percentage of datation errors per profile



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

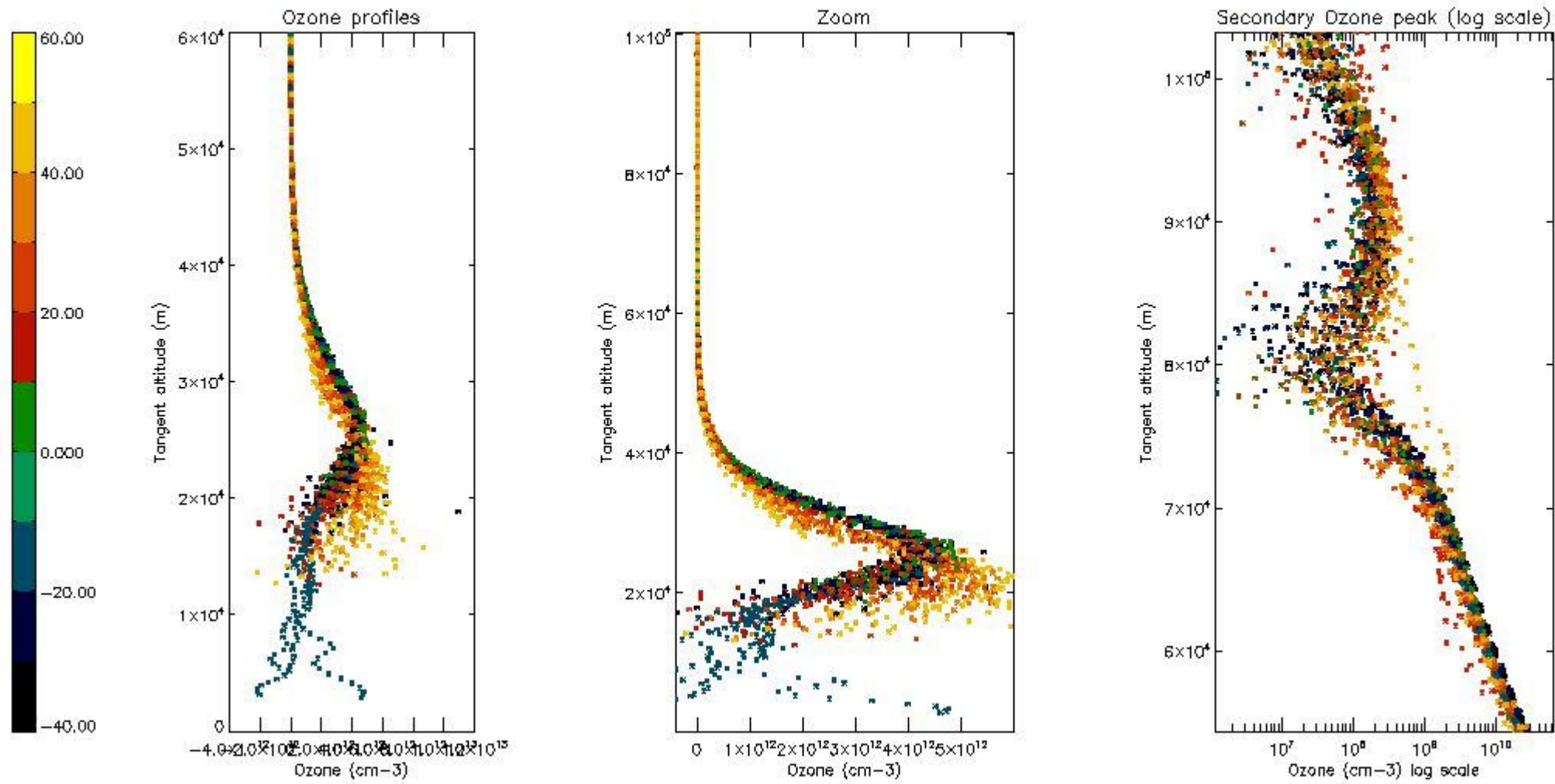
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

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

STD < 10	17
STD < 5	12

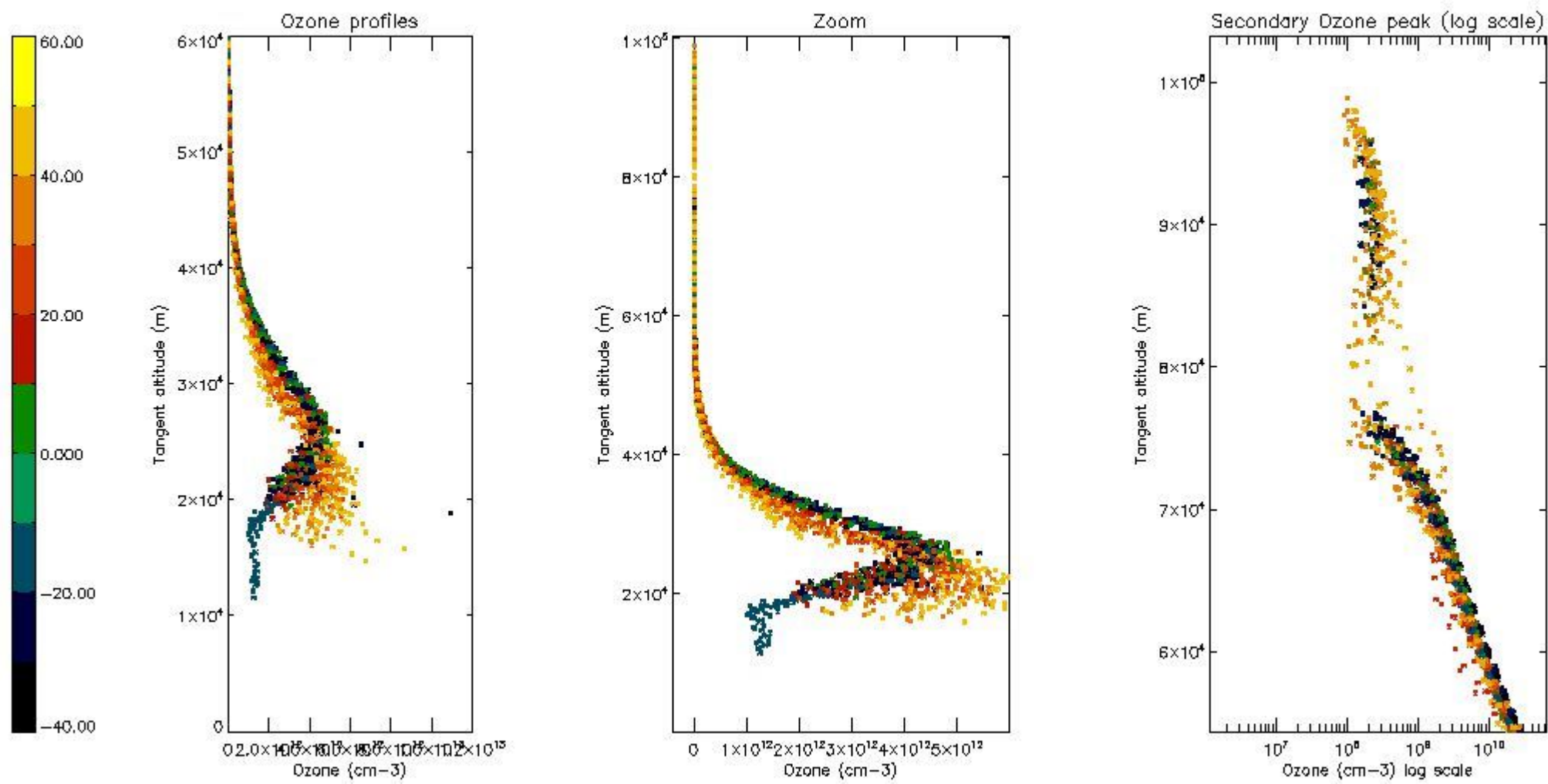
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



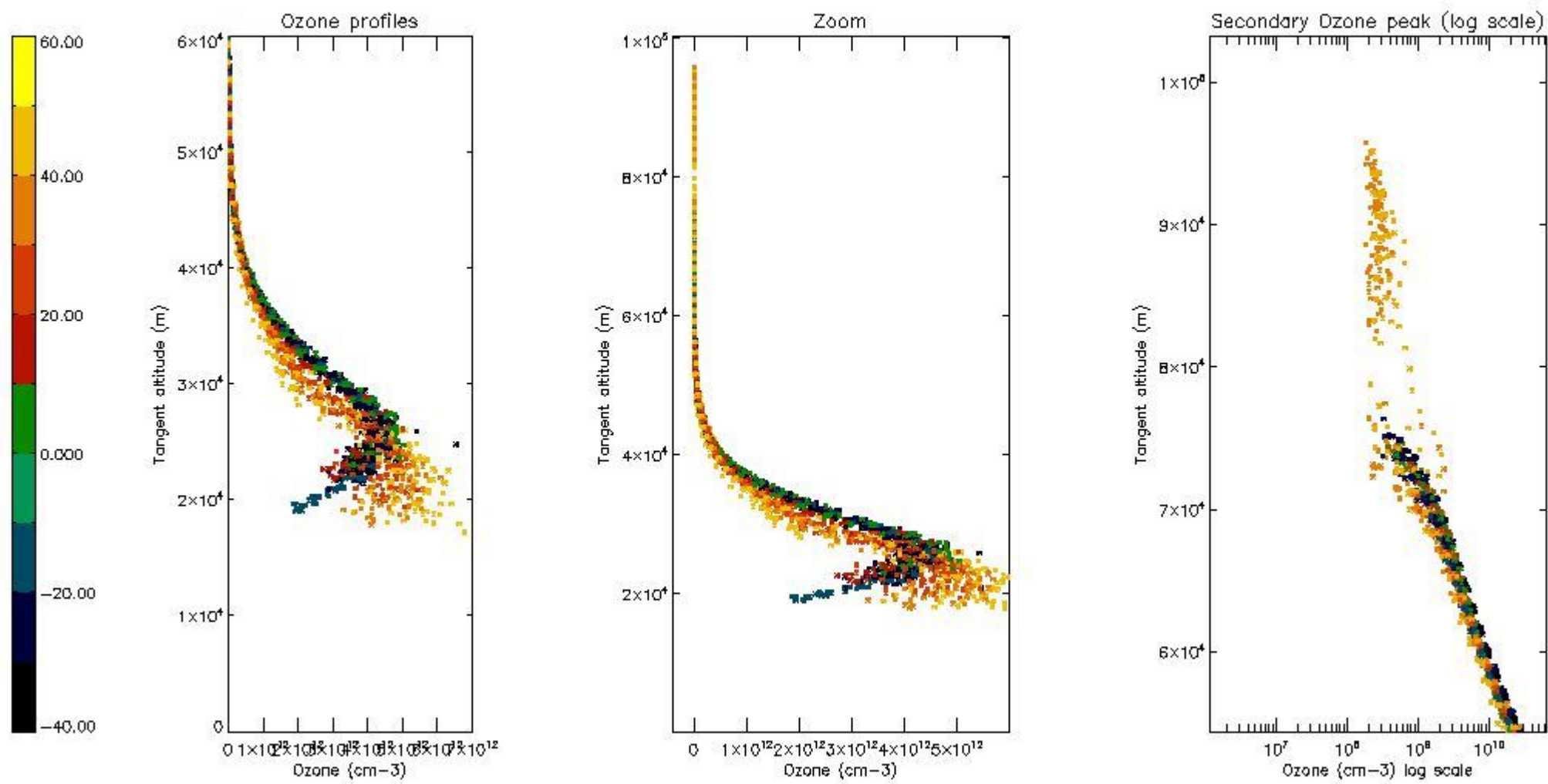
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



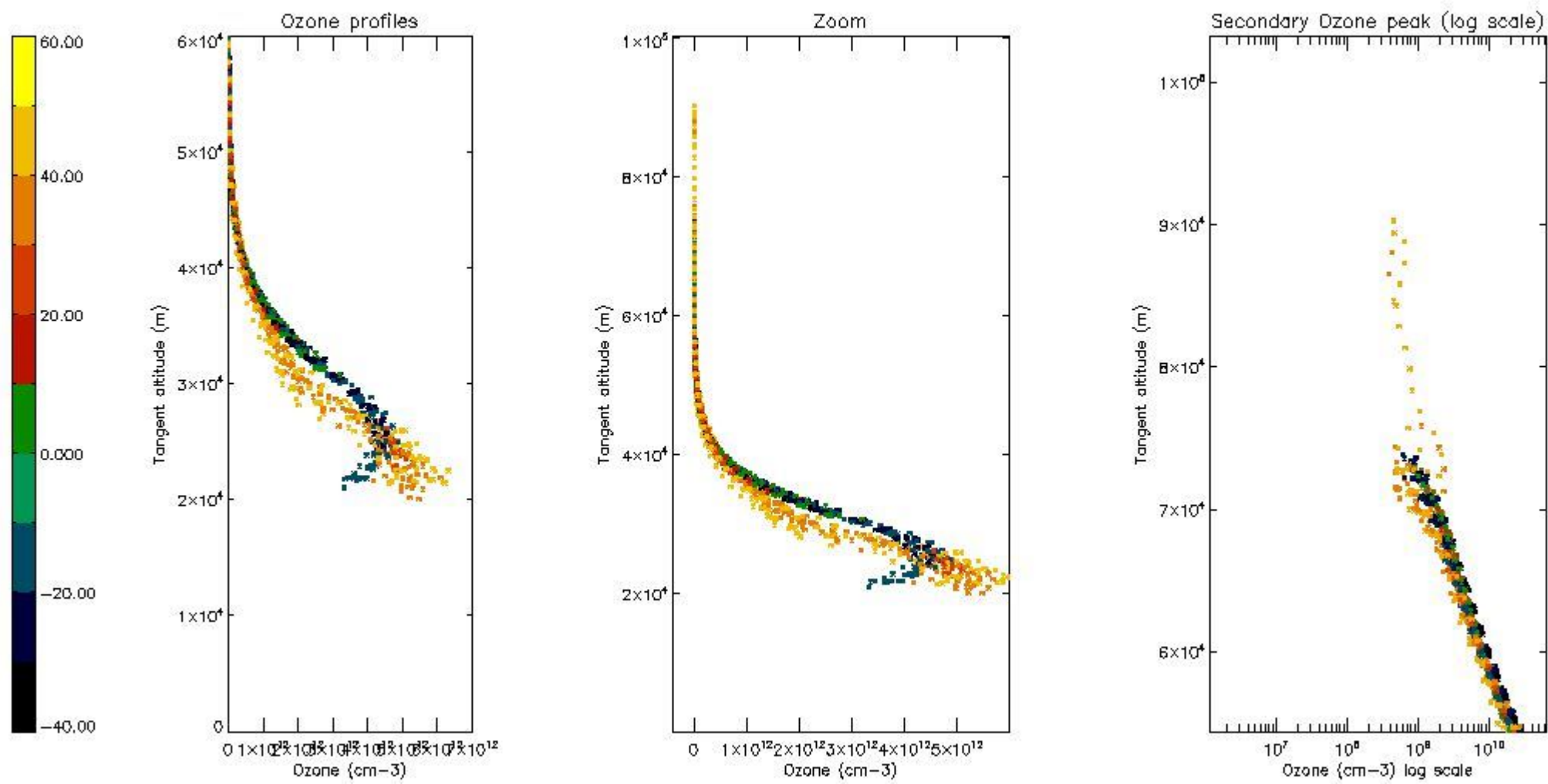
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



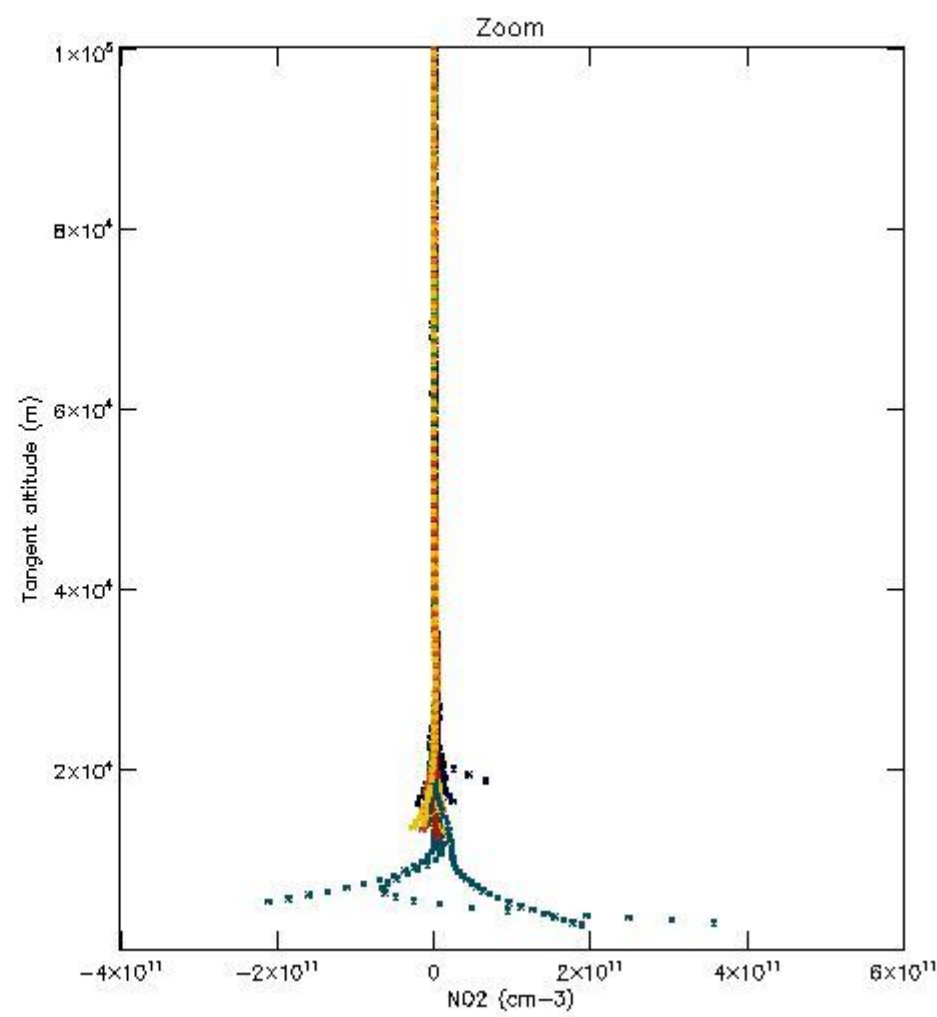
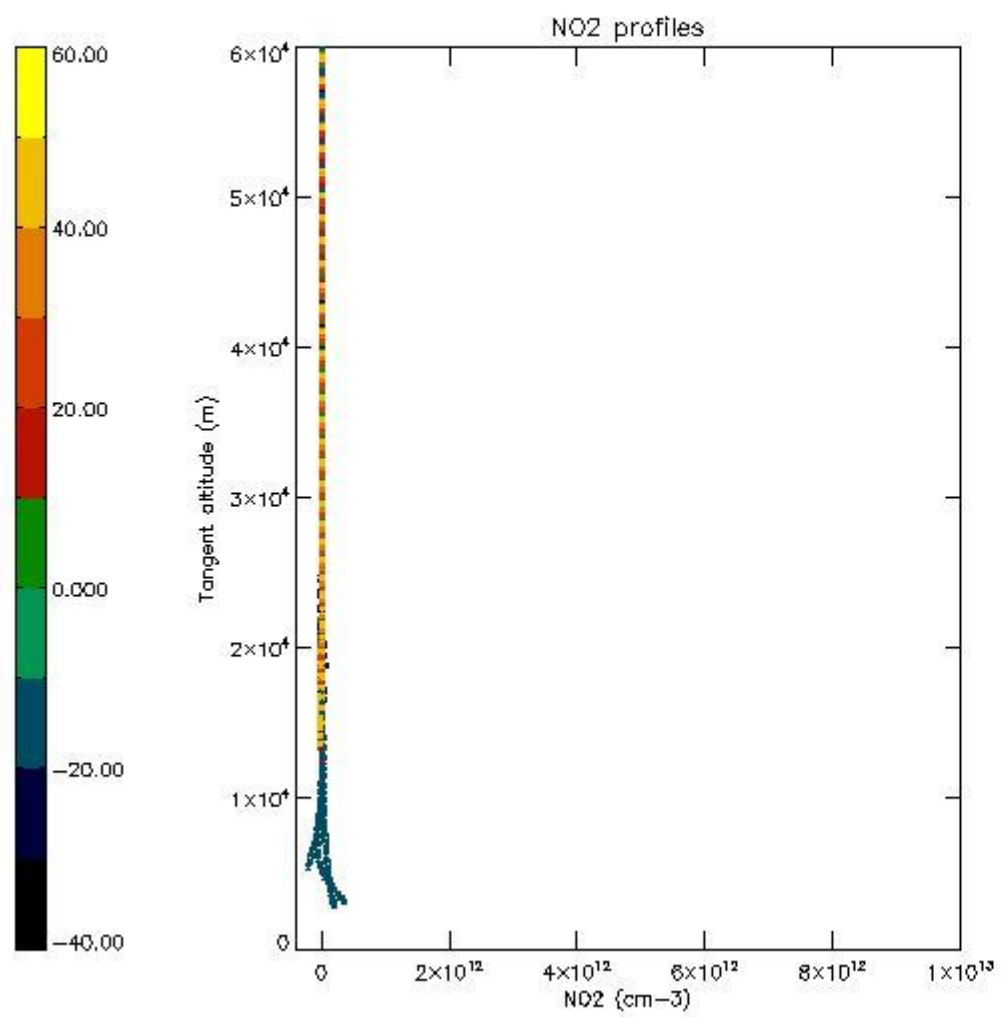
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



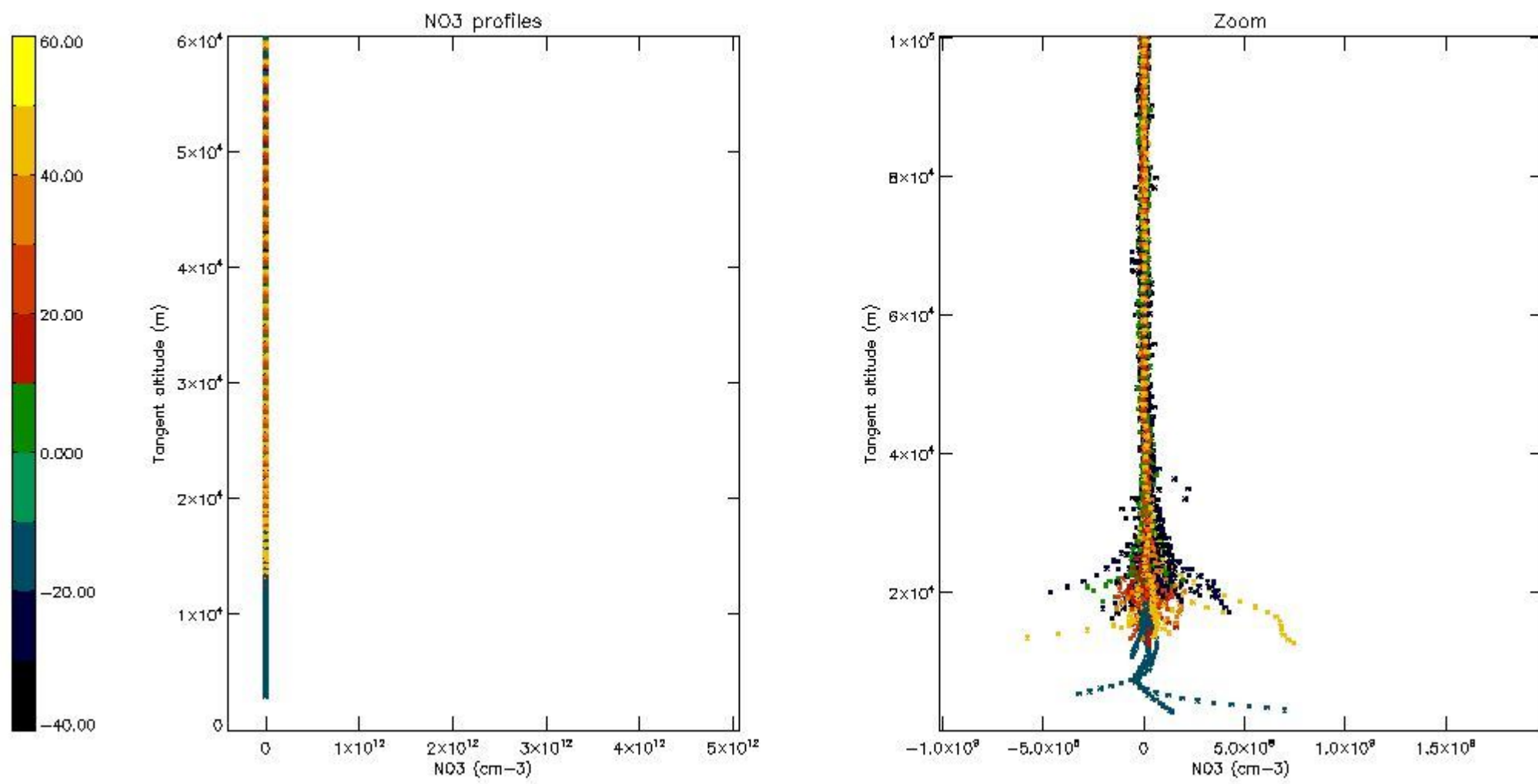
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



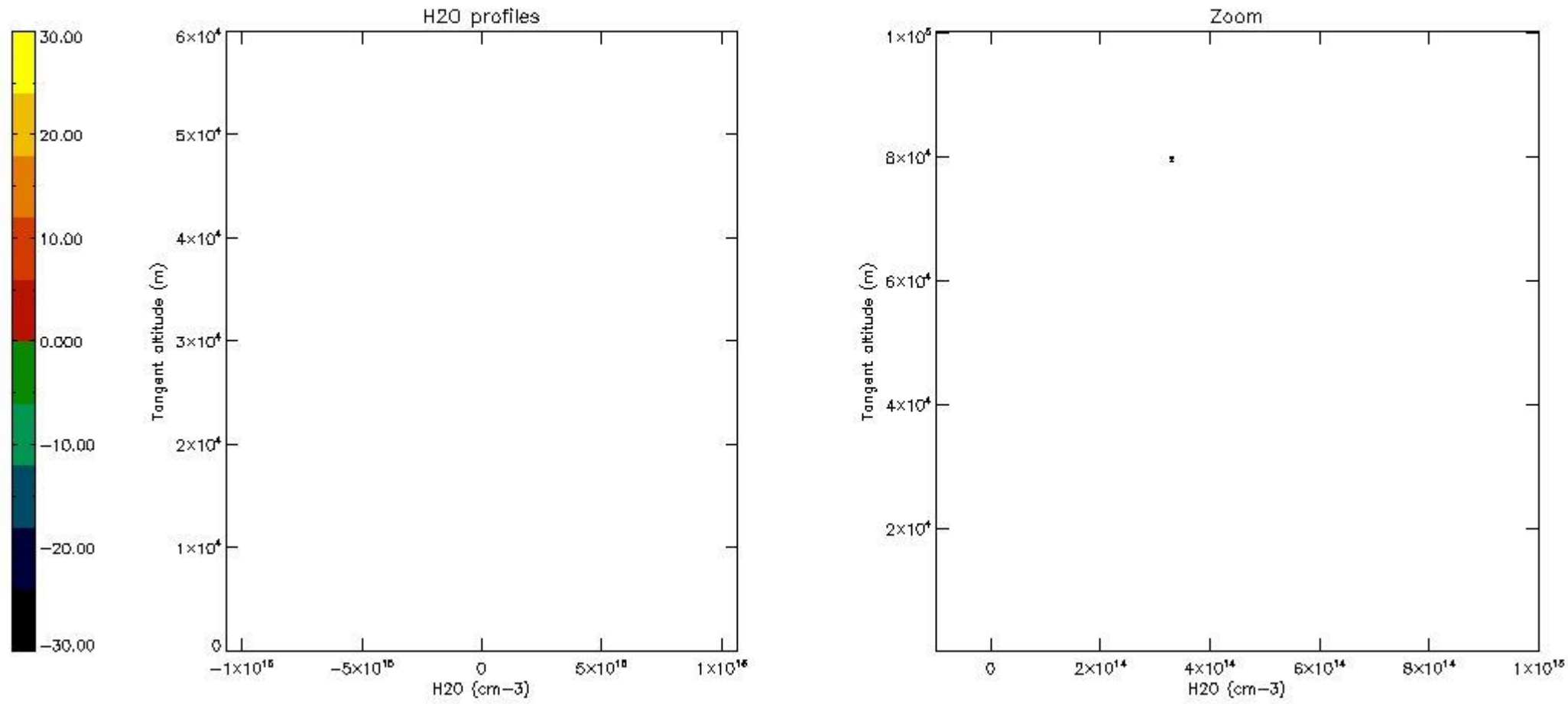
5.7 Plot NO3 profiles for all STD (dark without errors)

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	16-JAN-2008 00:02:36
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	16-JAN-2008 00:02:36
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	16-JAN-2008 00:02:36

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

[2. Summary of processed GOM_NL_2P products](#)

[3. Level 2 Quality information per product](#)

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

[4.1 Plot of level 1 quality information per product \(time dependant\)](#)

[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](#)

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[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](#)

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

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	25APR2013 08:52:28
Data source version	GOMOS/6.01
Start time of products	16-01-2008 (16JAN2008 00:00:00)
Stop time of products	17-01-2008 (17JAN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	316
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

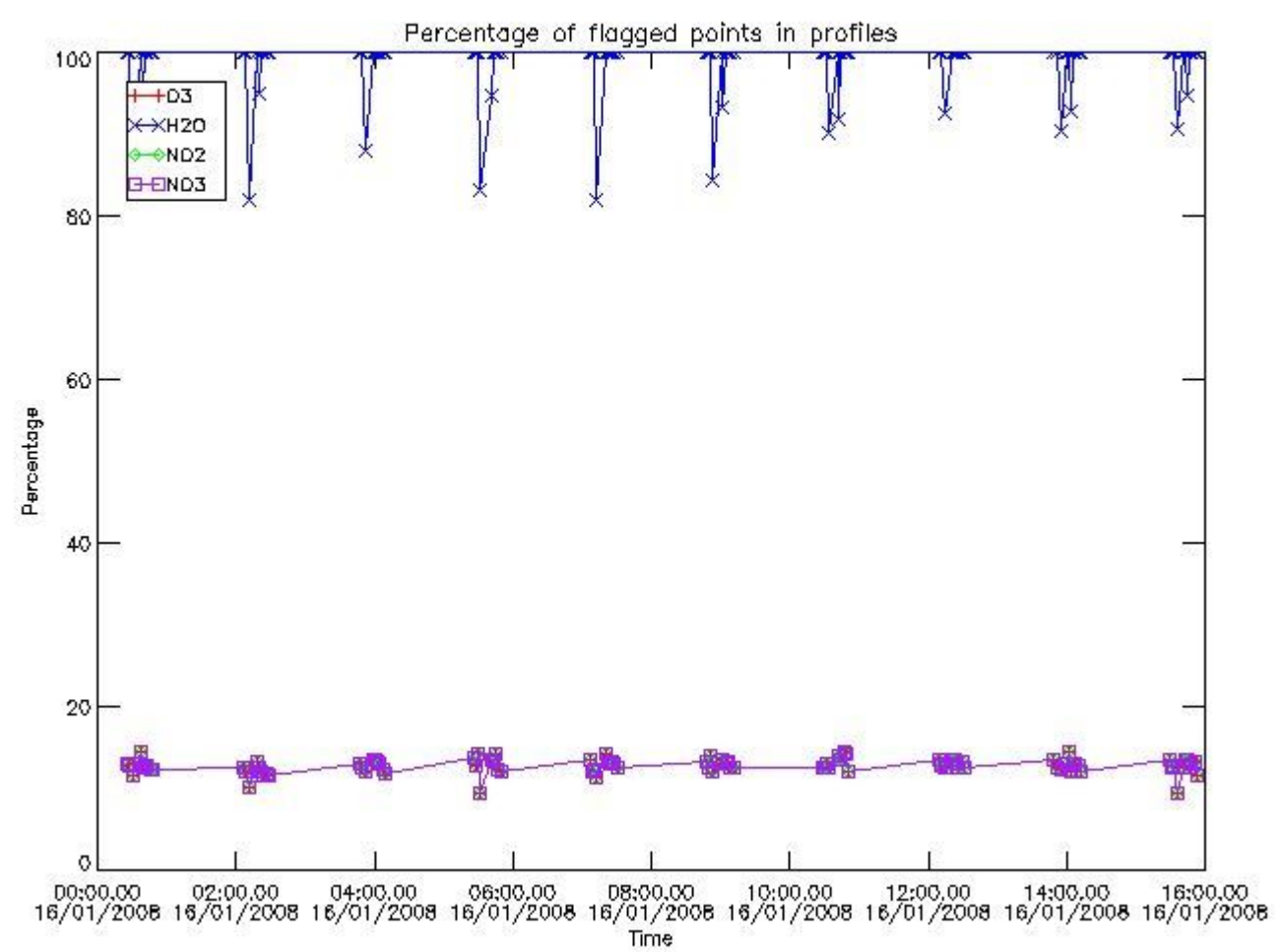
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20080116_000236_000000542065_00116_30731_8485.N1	16-JAN-2008 00:02:36	Bright	54.000	133	40Zet Her	2.8070	6000.0	108	30731	No
2	GOM_NL__2PRFIN20080116_000542_000000552065_00116_30731_8486.N1	16-JAN-2008 00:05:42	Bright	55.000	127	27Bet Her	2.7810	4700.0	110	30731	No
3	GOM_NL__2PRFIN20080116_000724_000000332065_00116_30731_8487.N1	16-JAN-2008 00:07:24	Bright	33.000	59	55Alp Oph	2.0800	8900.0	66	30731	No
4	GOM_NL__2PRFIN20080116_001320_000000402065_00116_30731_8488.N1	16-JAN-2008 00:13:20	Bright	39.500	120	1Del Oph	2.7340	3200.0	79	30731	No
5	GOM_NL__2PRFIN20080116_001442_000000512065_00116_30731_8489.N1	16-JAN-2008 00:14:42	Bright	50.500	98	13Zet Oph	2.5710	30000.	101	30731	No
6	GOM_NL__2PRFIN20080116_001910_000000472065_00116_30731_8490.N1	16-JAN-2008 00:19:10	Twilight	46.500	16	21Alp Sco	1.0200	3000.0	93	30731	No
7	GOM_NL__2PRFIN20080116_002051_000000422065_00116_30731_8491.N1	16-JAN-2008 00:20:51	Twilight	42.000	75	26Eps Sco	2.2910	4250.0	84	30731	No
8	GOM_NL__2PRFIN20080116_002610_000000392065_00116_30731_8492.N1	16-JAN-2008 00:26:10	Dark	39.000	109	Bet Lup	2.6770	26000.	78	30731	No
9	GOM_NL__2PRFIN20080116_002741_000000402065_00116_30731_8493.N1	16-JAN-2008 00:27:41	Dark	40.000	78	Alp Lup	2.3040	28000.	80	30731	No
10	GOM_NL__2PRFIN20080116_003016_000000442065_00117_30732_8585.N1	16-JAN-2008 00:30:16	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	30732	No
11	GOM_NL__2PRFIN20080116_003754_000000392065_00117_30732_8586.N1	16-JAN-2008 00:37:54	Dark	38.500	124	The Car	2.7640	30000.	77	30732	No
12	GOM_NL__2PRFIN20080116_003915_000000412065_00117_30732_8587.N1	16-JAN-2008 00:39:15	Dark	41.000	29	Bet Car	1.6720	10200.	82	30732	No
13	GOM_NL__2PRFIN20080116_004111_000000412065_00117_30732_8588.N1	16-JAN-2008 00:41:11	Dark	40.500	71	lot Car	2.2460	7700.0	81	30732	No
14	GOM_NL__2PRFIN20080116_004303_000000402065_00117_30732_8589.N1	16-JAN-2008 00:43:03	Dark	40.000	46	Del Vel	1.9540	10600.	80	30732	No
15	GOM_NL__2PRFIN20080116_004546_000000422065_00117_30732_8590.N1	16-JAN-2008 00:45:46	Dark	41.500	34	Gam2Vel	1.7930	23000.	83	30732	No
16	GOM_NL__2PRFIN20080116_004755_000000422065_00117_30732_8591.N1	16-JAN-2008 00:47:55	Dark	41.500	70	Zet Pup	2.2460	39000.	83	30732	No
17	GOM_NL__2PRFIN20080116_004935_000000442065_00117_30732_8592.N1	16-JAN-2008 00:49:35	Straylight	43.500	117	Pi Pup	2.7060	3800.0	87	30732	No
18	GOM_NL__2PRFIN20080116_005208_000000422065_00117_30732_8593.N1	16-JAN-2008 00:52:08	Straylight	41.500	23	21Eps CMa	1.5020	26000.	83	30732	No
19	GOM_NL__2PRFIN20080116_005333_000000402065_00117_30732_8594.N1	16-JAN-2008 00:53:33	Straylight	40.000	179	24Omi2CMa	3.0320	24000.	80	30732	No
20	GOM_NL__2PRFIN20080116_005547_000000532065_00117_30732_8595.N1	16-JAN-2008 00:55:47	Straylight	53.000	1	9Alp CMa	-1.4400	11000.	106	30732	No
21	GOM_NL__2PRFIN20080116_005816_000000412065_00117_30732_8596.N1	16-JAN-2008 00:58:16	Straylight	41.000	56	53Kap Ori	2.0650	30000.	82	30732	No
22	GOM_NL__2PRFIN20080116_005926_000000392065_00117_30732_8597.N1	16-JAN-2008 00:59:26	Straylight	39.000	125	44lot Ori	2.7700	30000.	78	30732	No
23	GOM_NL__2PRFIN20080116_010044_000000412065_00117_30732_8598.N1	16-JAN-2008 01:00:44	Twilight	40.500	30	46Eps Ori	1.6940	30000.	81	30732	No
24	GOM_NL__2PRFIN20080116_010257_000000522065_00117_30732_8599.N1	16-JAN-2008 01:02:57	Twilight	51.500	14	58Alp Ori	0.87000	3000.0	103	30732	No
25	GOM_NL__2PRFIN20080116_010527_000000422065_00117_30732_8600.N1	16-JAN-2008 01:05:27	Bright	42.000	44	24Gam Gem	1.9280	11000.	84	30732	No
26	GOM_NL__2PRFIN20080116_010654_000000342065_00117_30732_8601.N1	16-JAN-2008 01:06:54	Bright	34.000	176	23Zet Tau	3.0200	22000.	68	30732	No
27	GOM_NL__2PRFIN20080116_010903_000000372065_00117_30732_8602.N1	16-JAN-2008 01:09:03	Bright	36.500	28	12Bet Tau	1.6500	15200.	73	30732	No
28	GOM_NL__2PRFIN20080116_011038_000000382065_00117_30732_8603.N1	16-JAN-2008 01:10:38	Bright	37.500	114	3lot Aur	2.6930	4600.0	75	30732	No
29	GOM_NL__2PRFIN20080116_011330_000000372065_00117_30732_8604.N1	16-JAN-2008 01:13:30	Bright	37.000	42	34Bet Aur	1.9000	10200.	74	30732	No
30	GOM_NL__2PRFIN20080116_012603_000000362065_00117_30732_8605.N1	16-JAN-2008 01:26:03	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	30732	No
31	GOM_NL__2PRFIN20080116_013420_000000382065_00117_30732_8606.N1	16-JAN-2008 01:34:20	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	30732	No
32	GOM_NL__2PRFIN20080116_013655_000000522065_00117_30732_8607.N1	16-JAN-2008 01:36:55	Bright	52.000	130	23Bet Dra	2.7990	5800.0	104	30732	No
33	GOM_NL__2PRFIN20080116_014312_000000542065_00117_30732_8608.N1	16-JAN-2008 01:43:12	Bright	54.000	133	40Zet Her	2.8070	6000.0	108	30732	No
34	GOM_NL__2PRFIN20080116_014618_000000552065_00117_30732_8609.N1	16-JAN-2008 01:46:18	Bright	55.000	127	27Bet Her	2.7810	4700.0	110	30732	No
35	GOM_NL__2PRFIN20080116_014800_000000332065_00117_30732_8610.N1	16-JAN-2008 01:48:00	Bright	33.000	59	55Alp Oph	2.0800	8900.0	66	30732	No
36	GOM_NL__2PRFIN20080116_015357_000000562065_00117_30732_8611.N1	16-JAN-2008 01:53:57	Bright	56.000	120	1Del Oph	2.7340	3200.0	112	30732	No
37	GOM_NL__2PRFIN20080116_015518_000000472065_00117_30732_8612.N1	16-JAN-2008 01:55:18	Bright	47.000	98	13Zet Oph	2.5710	30000.	94	30732	No
38	GOM_NL__2PRFIN20080116_015946_000000522065_00117_30732_8613.N1	16-JAN-2008 01:59:46	Twilight	52.000	16	21Alp Sco	1.0200	3000.0	104	30732	No
39	GOM_NL__2PRFIN20080116_020127_000000392065_00117_30732_8614.N1	16-JAN-2008 02:01:27	Twilight	39.000	75	26Eps Sco	2.2910	4250.0	78	30732	No
40	GOM_NL__2PRFIN20080116_020647_000000412065_00117_30732_8615.N1	16-JAN-2008 02:06:47	Dark	41.000	109	Bet Lup	2.6770	26000.	82	30732	No
41	GOM_NL__2PRFIN20080116_020817_000000422065_00117_30732_8616.N1	16-JAN-2008 02:08:17	Dark	42.000	78	Alp Lup	2.3040	28000.	84	30732	No
42	GOM_NL__2PRFIN20080116_021052_000000512065_00118_30733_8586.N1	16-JAN-2008 02:10:52	Dark	50.500	4	Alp1Cen	-0.010000	5800.0	101	30733	No

279	GOM_NL__2PRFIN20080116_142415_000000352065_00125_30740_8673.N1	16-JAN-2008 14:24:15	Straylight	35.000	125	44lot Ori	2.7700	30000.	70	30740	No
280	GOM_NL__2PRFIN20080116_142533_000000372065_00125_30740_8674.N1	16-JAN-2008 14:25:33	Twilight	37.000	30	46Eps Ori	1.6940	30000.	74	30740	No
281	GOM_NL__2PRFIN20080116_142745_000000452065_00125_30740_8675.N1	16-JAN-2008 14:27:45	Twilight	44.500	14	58Alp Ori	0.87000	3000.0	89	30740	No
282	GOM_NL__2PRFIN20080116_143014_000000512065_00125_30740_8676.N1	16-JAN-2008 14:30:14	Bright	50.500	44	24Gam Gem	1.9280	11000.	101	30740	No
283	GOM_NL__2PRFIN20080116_143142_000000352065_00125_30740_8677.N1	16-JAN-2008 14:31:42	Bright	35.000	176	23Zet Tau	3.0200	22000.	70	30740	No
284	GOM_NL__2PRFIN20080116_143352_000000372065_00125_30740_8678.N1	16-JAN-2008 14:33:52	Bright	37.000	28	12Bet Tau	1.6500	15200.	74	30740	No
285	GOM_NL__2PRFIN20080116_143528_000000382065_00125_30740_8679.N1	16-JAN-2008 14:35:28	Bright	38.000	114	3lot Aur	2.6930	4600.0	76	30740	No
286	GOM_NL__2PRFIN20080116_143817_000000372065_00125_30740_8680.N1	16-JAN-2008 14:38:17	Bright	36.500	42	34Bet Aur	1.9000	10200.	73	30740	No
287	GOM_NL__2PRFIN20080116_145051_000000322065_00125_30740_8681.N1	16-JAN-2008 14:50:51	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	30740	No
288	GOM_NL__2PRFIN20080116_145907_000000382065_00125_30740_8682.N1	16-JAN-2008 14:59:07	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	30740	No
289	GOM_NL__2PRFIN20080116_150143_000000342065_00125_30740_8683.N1	16-JAN-2008 15:01:43	Bright	34.000	130	23Bet Dra	2.7990	5800.0	68	30740	No
290	GOM_NL__2PRFIN20080116_150800_000000362065_00125_30740_8684.N1	16-JAN-2008 15:08:00	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	30740	No
291	GOM_NL__2PRFIN20080116_151108_000000382065_00125_30740_8685.N1	16-JAN-2008 15:11:08	Bright	37.500	127	27Bet Her	2.7810	4700.0	75	30740	No
292	GOM_NL__2PRFIN20080116_151249_000000342065_00125_30740_8686.N1	16-JAN-2008 15:12:49	Bright	33.500	59	55Alp Oph	2.0800	8900.0	67	30740	No
293	GOM_NL__2PRFIN20080116_151848_000000532065_00125_30740_8687.N1	16-JAN-2008 15:18:48	Bright	53.000	120	1Del Oph	2.7340	3200.0	106	30740	No
294	GOM_NL__2PRFIN20080116_152009_000000542065_00125_30740_8688.N1	16-JAN-2008 15:20:09	Bright	54.000	98	13Zet Oph	2.5710	30000.	108	30740	No
295	GOM_NL__2PRFIN20080116_152437_000000472065_00125_30740_8689.N1	16-JAN-2008 15:24:37	Twilight	47.000	16	21Alp Sco	1.0200	3000.0	94	30740	No
296	GOM_NL__2PRFIN20080116_152617_000000422065_00125_30740_8690.N1	16-JAN-2008 15:26:17	Twilight	42.000	75	26Eps Sco	2.2910	4250.0	84	30740	No
297	GOM_NL__2PRFIN20080116_152953_000000382065_00125_30740_8691.N1	16-JAN-2008 15:29:53	Dark	38.000	131	Gam Lup	2.8000	26000.	76	30740	No
298	GOM_NL__2PRFIN20080116_153139_000000412065_00125_30740_8692.N1	16-JAN-2008 15:31:39	Dark	40.500	109	Bet Lup	2.6770	26000.	81	30740	No
299	GOM_NL__2PRFIN20080116_153310_000000402065_00125_30740_8693.N1	16-JAN-2008 15:33:10	Dark	40.000	78	Alp Lup	2.3040	28000.	80	30740	No
300	GOM_NL__2PRFIN20080116_153543_000000542065_00126_30741_8672.N1	16-JAN-2008 15:35:43	Dark	54.000	4	Alp1Cen	-0.010000	5800.0	108	30741	No
301	GOM_NL__2PRFIN20080116_154031_000000412065_00126_30741_8673.N1	16-JAN-2008 15:40:31	Dark	40.500	129	Del Cru	2.7930	26000.	81	30741	No
302	GOM_NL__2PRFIN20080116_154321_000000382065_00126_30741_8674.N1	16-JAN-2008 15:43:21	Dark	37.500	124	The Car	2.7640	30000.	75	30741	No
303	GOM_NL__2PRFIN20080116_154442_000000382065_00126_30741_8675.N1	16-JAN-2008 15:44:42	Dark	37.500	29	Bet Car	1.6720	10200.	75	30741	No
304	GOM_NL__2PRFIN20080116_154638_000000412065_00126_30741_8676.N1	16-JAN-2008 15:46:38	Dark	40.500	71	lot Car	2.2460	7700.0	81	30741	No
305	GOM_NL__2PRFIN20080116_154830_000000392065_00126_30741_8677.N1	16-JAN-2008 15:48:30	Dark	39.000	46	Del Vel	1.9540	10600.	78	30741	No
306	GOM_NL__2PRFIN20080116_155113_000000392065_00126_30741_8678.N1	16-JAN-2008 15:51:13	Dark	38.500	34	Gam2Vel	1.7930	23000.	77	30741	No
307	GOM_NL__2PRFIN20080116_155321_000000442065_00126_30741_8679.N1	16-JAN-2008 15:53:21	Dark	44.000	70	Zet Pup	2.2460	39000.	88	30741	No
308	GOM_NL__2PRFIN20080116_155501_000000442065_00126_30741_8680.N1	16-JAN-2008 15:55:01	Straylight	43.500	117	Pi Pup	2.7060	3800.0	87	30741	No
309	GOM_NL__2PRFIN20080116_155733_000000422065_00126_30741_8681.N1	16-JAN-2008 15:57:33	Straylight	42.000	23	21Eps CMa	1.5020	26000.	84	30741	No
310	GOM_NL__2PRFIN20080116_155859_000000392065_00126_30741_8682.N1	16-JAN-2008 15:58:59	Straylight	38.500	179	24Omi2CMa	3.0320	24000.	77	30741	No
311	GOM_NL__2PRFIN20080116_160112_000000442065_00126_30741_8683.N1	16-JAN-2008 16:01:12	Straylight	43.500	1	9Alp CMa	-1.4400	11000.	87	30741	No
312	GOM_NL__2PRFIN20080116_160341_000000352065_00126_30741_8684.N1	16-JAN-2008 16:03:41	Straylight	35.000	56	53Kap Ori	2.0650	30000.	70	30741	No
313	GOM_NL__2PRFIN20080116_160452_000000362065_00126_30741_8685.N1	16-JAN-2008 16:04:52	Straylight	35.500	125	44lot Ori	2.7700	30000.	71	30741	No
314	GOM_NL__2PRFIN20080116_160609_000000392065_00126_30741_8686.N1	16-JAN-2008 16:06:09	Twilight	39.000	30	46Eps Ori	1.6940	30000.	78	30741	No
315	GOM_NL__2PRFIN20080116_160822_000000502065_00126_30741_8687.N1	16-JAN-2008 16:08:22	Twilight	50.000	14	58Alp Ori	0.87000	3000.0	100	30741	No
316	GOM_NL__2PRFIN20080116_161050_000000202065_00126_30741_8688.N1	16-JAN-2008 16:10:50	Twilight	19.500	44	24Gam Gem	1.9280	11000.	39	30741	No

3. Quality information per product

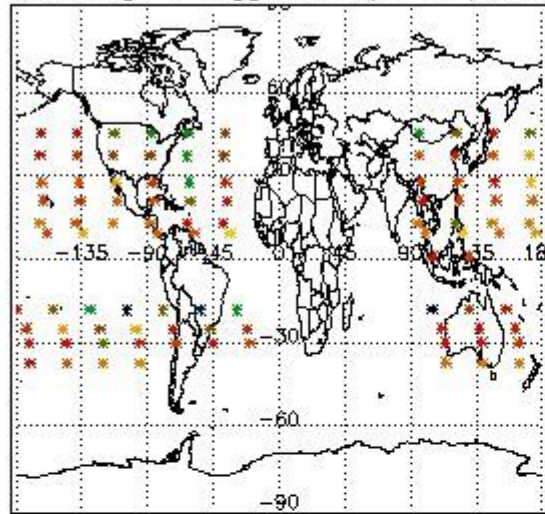
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

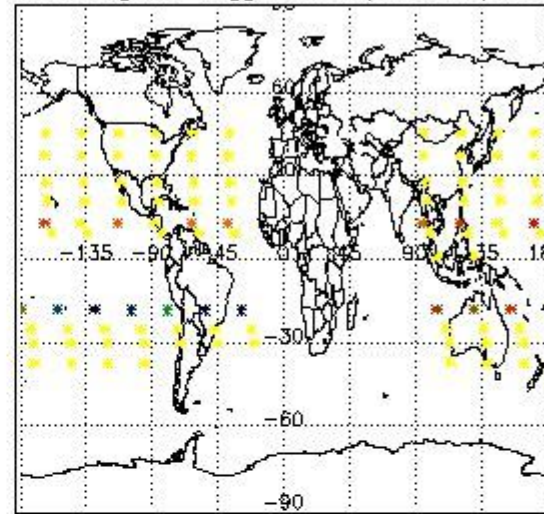


3.2 Plot quality information per product (world map)

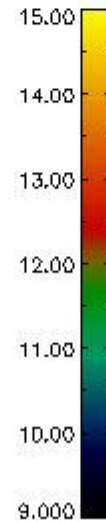
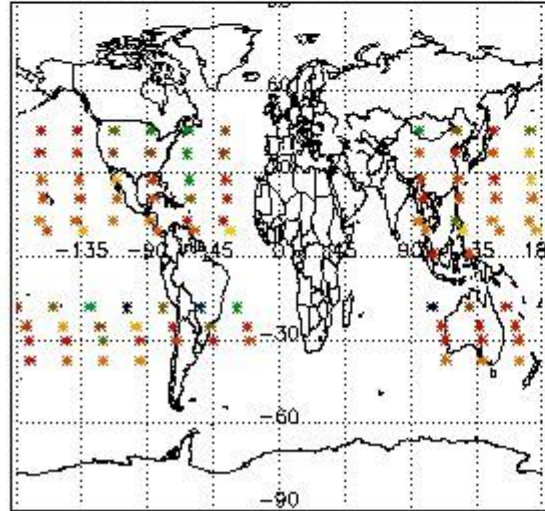
Percentage of flagged data per O3 profile



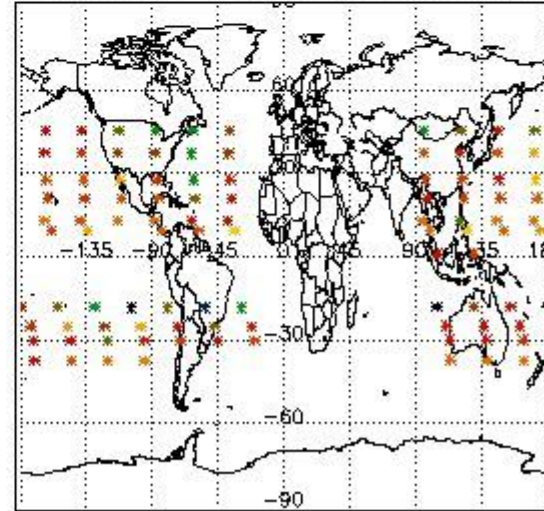
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

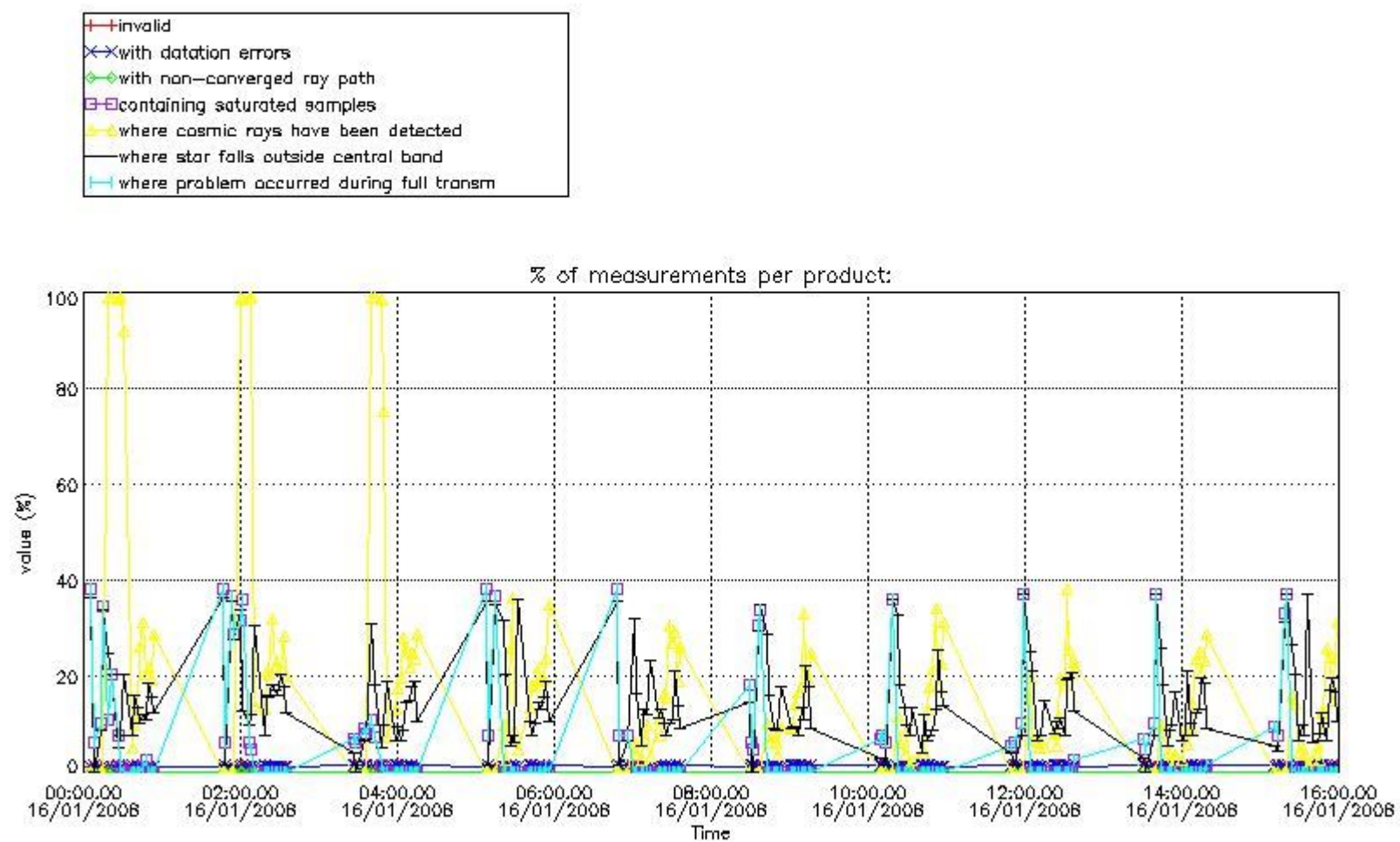


4. Level 1 quality information per product

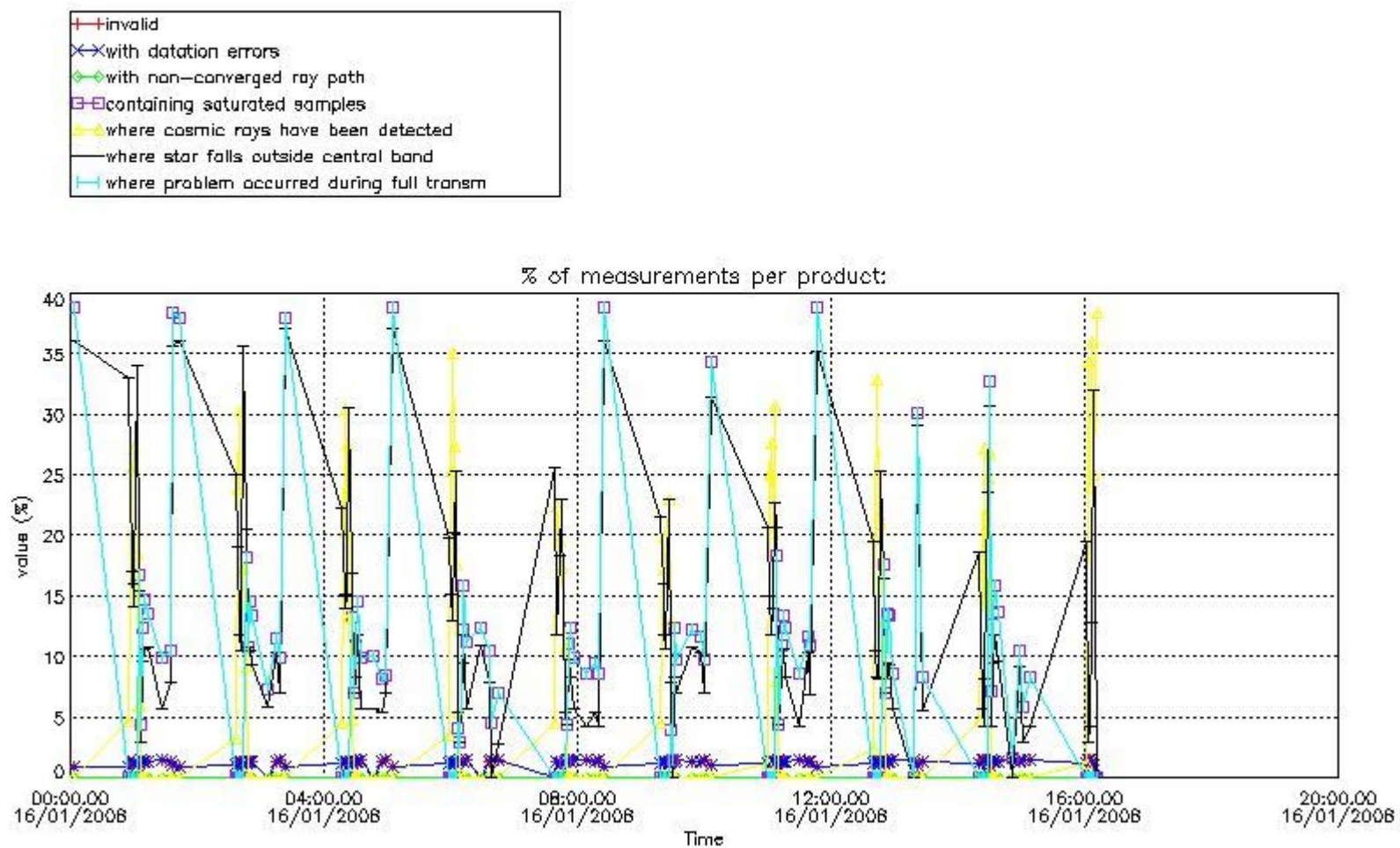
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

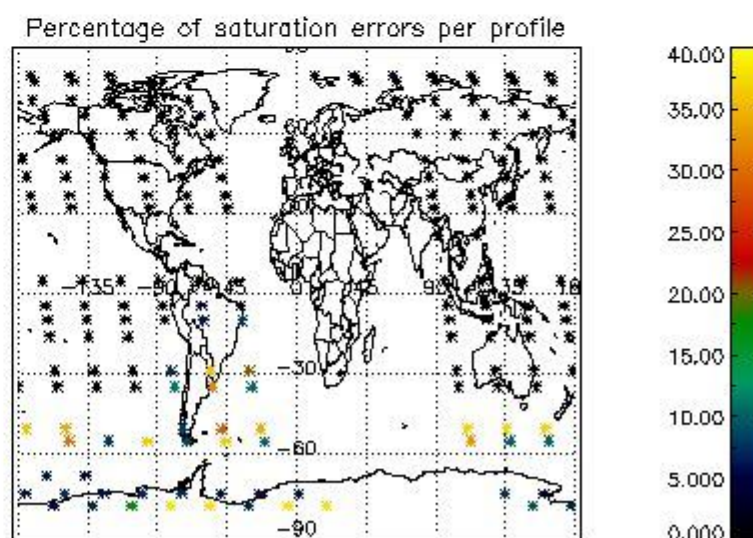
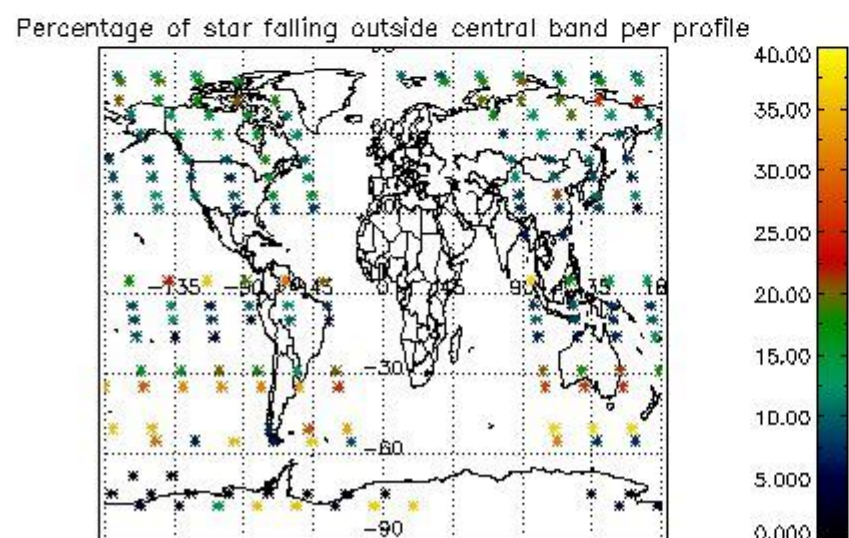
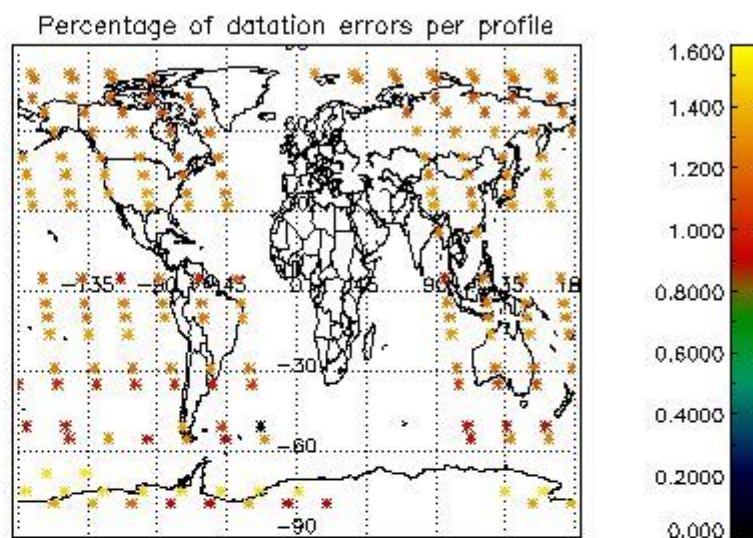
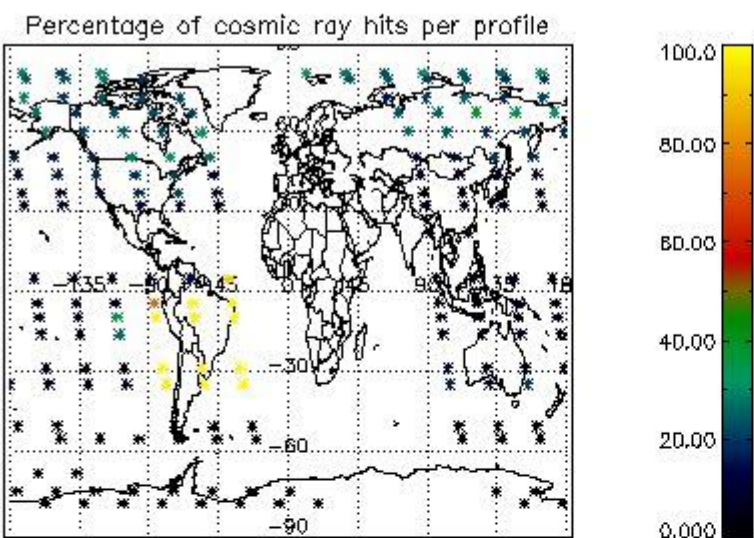
4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes



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

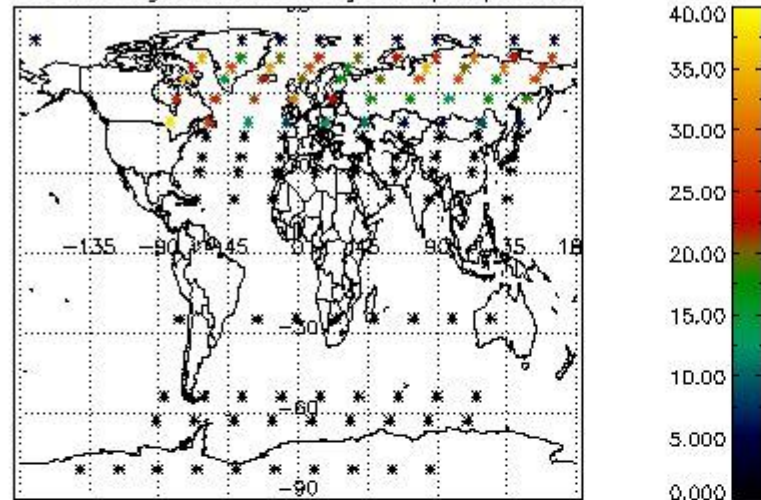


4.2 Plot quality information per product coming from level 1b processing (world map)
 4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes

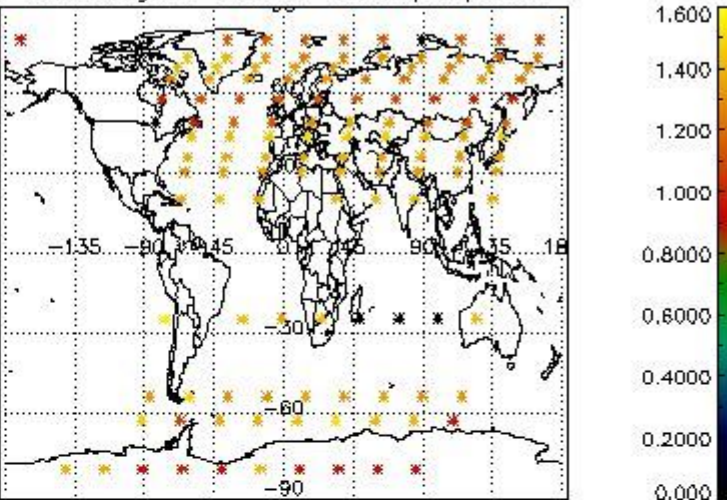


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

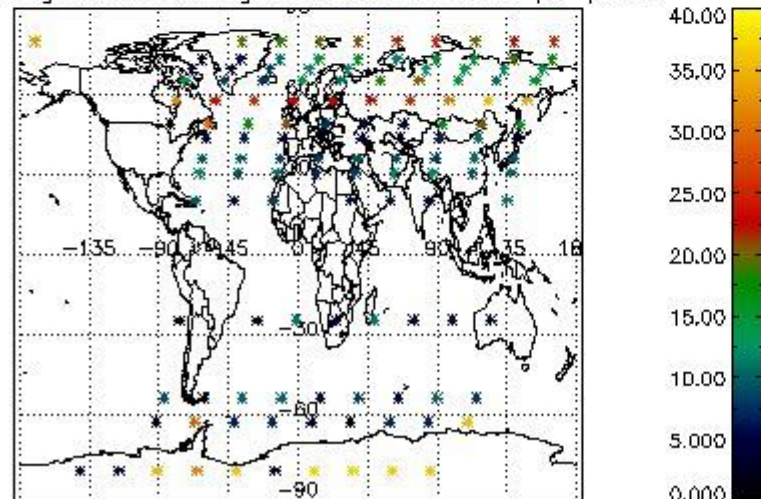
Percentage of cosmic ray hits per profile



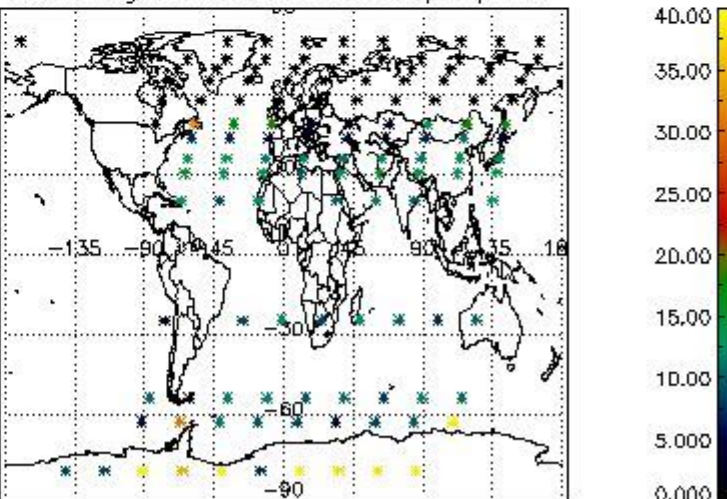
Percentage of datation errors per profile



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

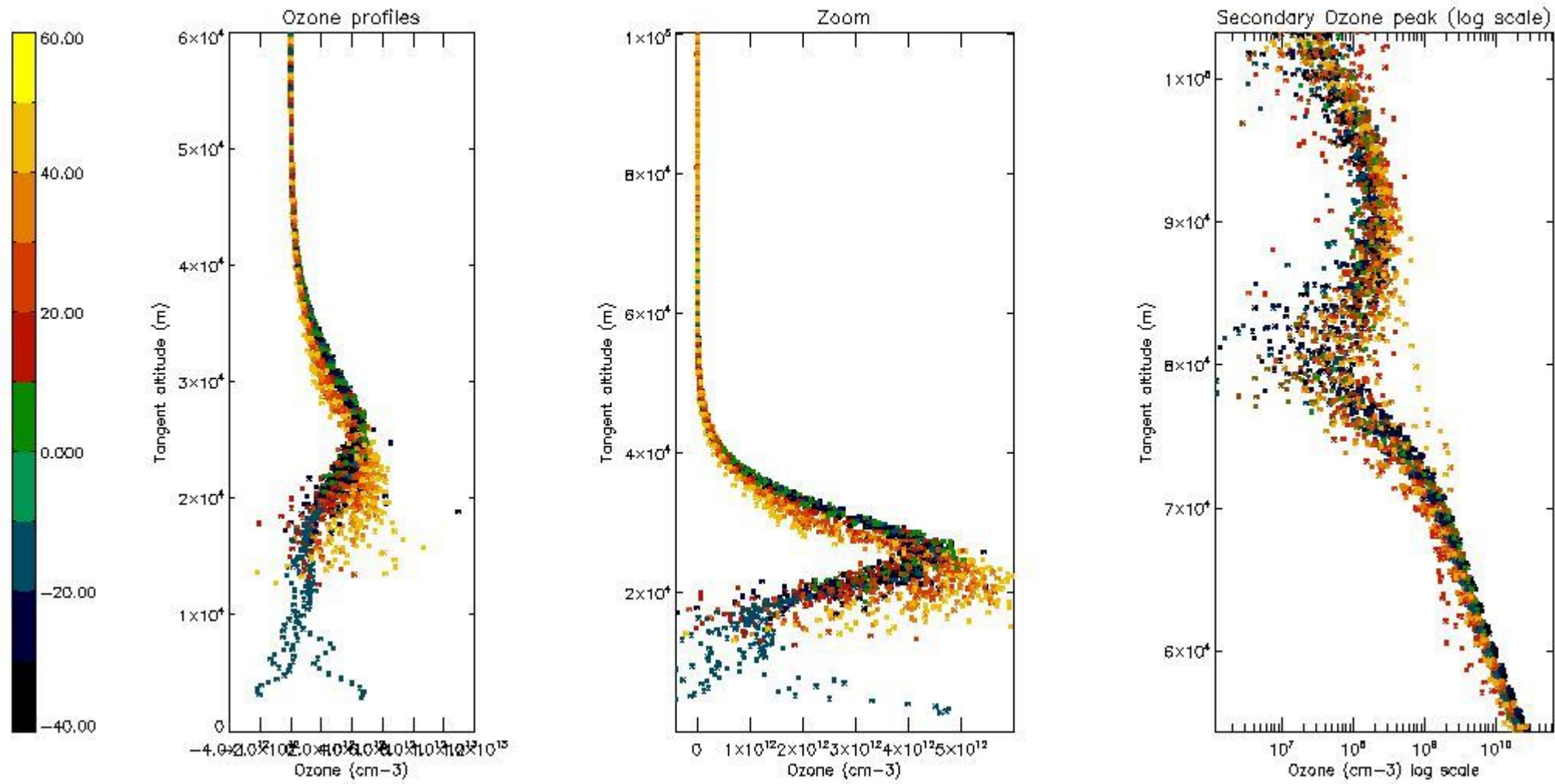
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

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

STD < 10	17
STD < 5	12

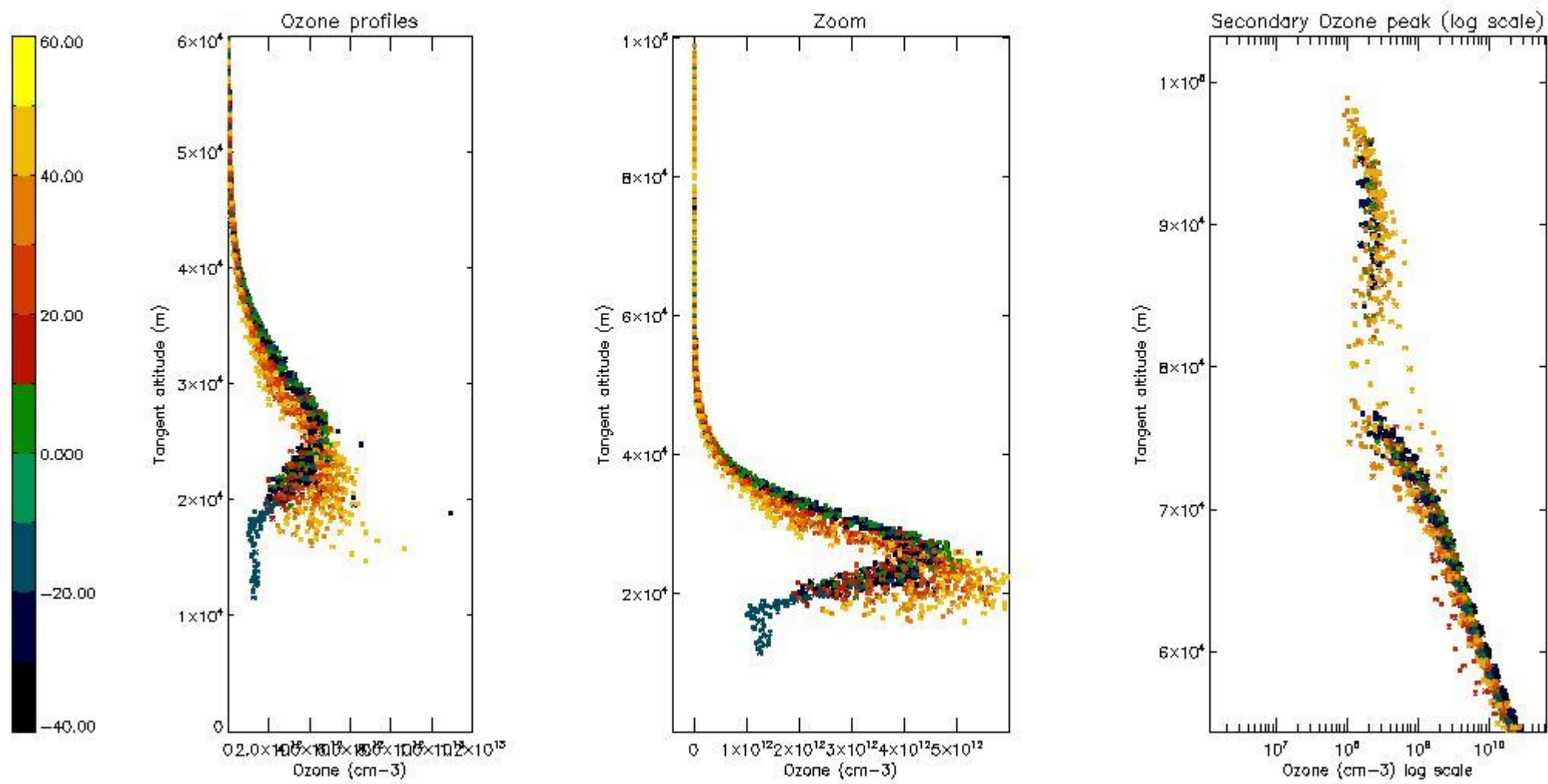
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



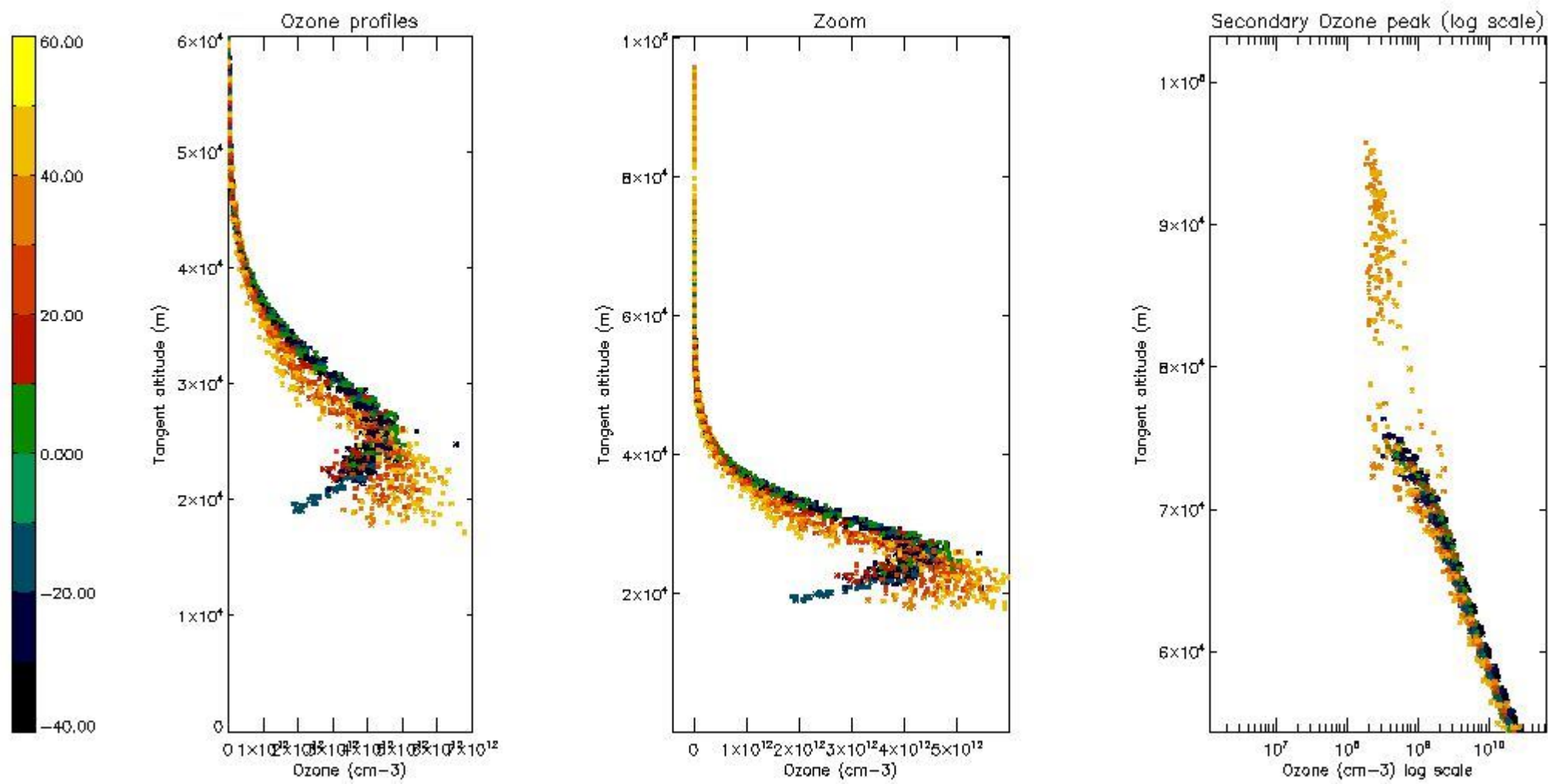
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



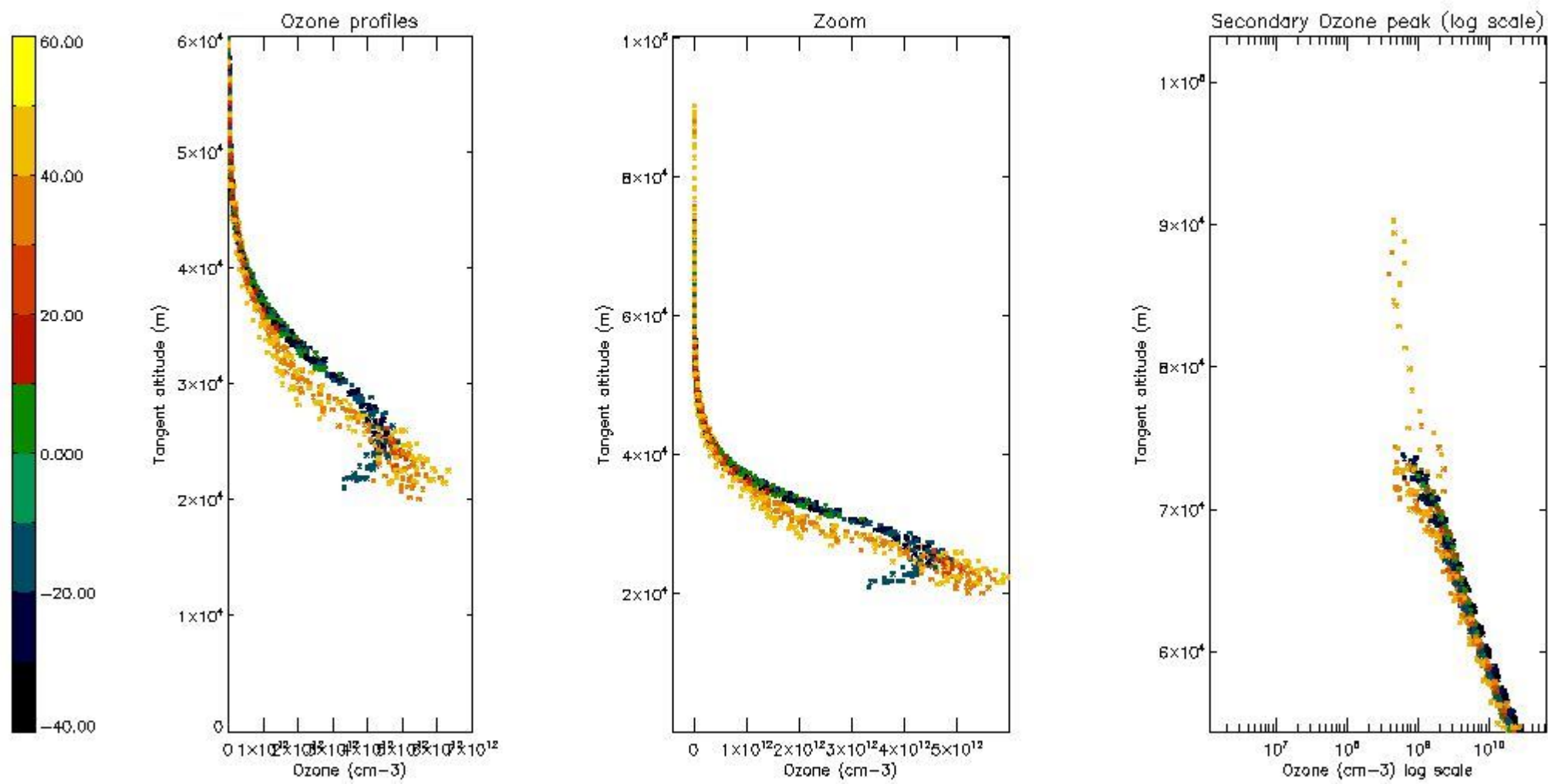
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



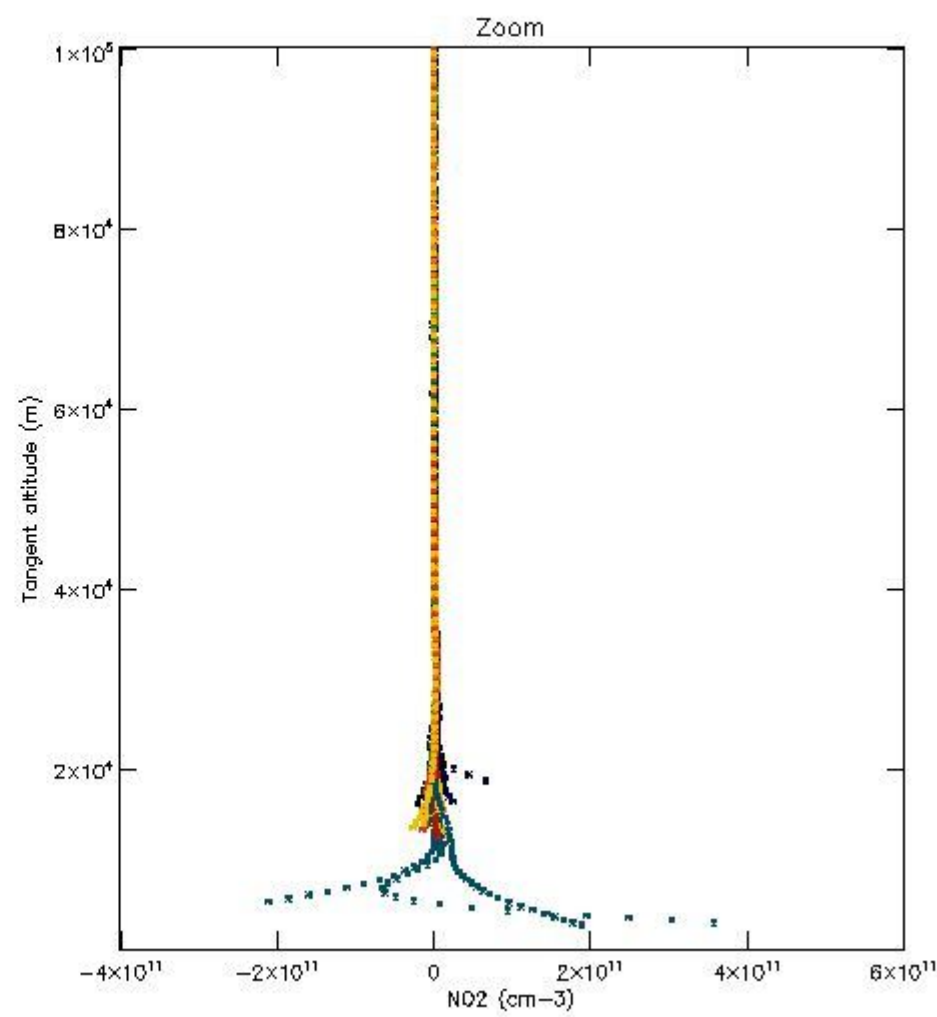
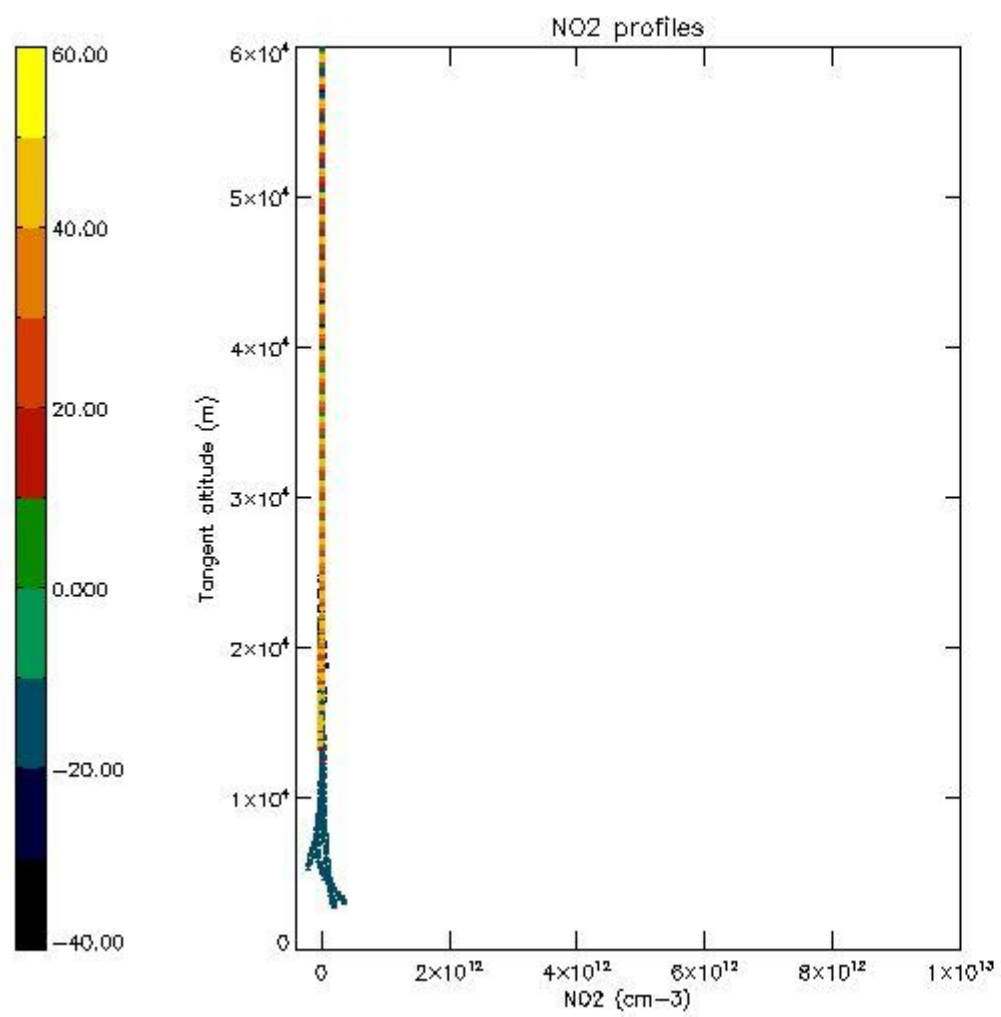
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



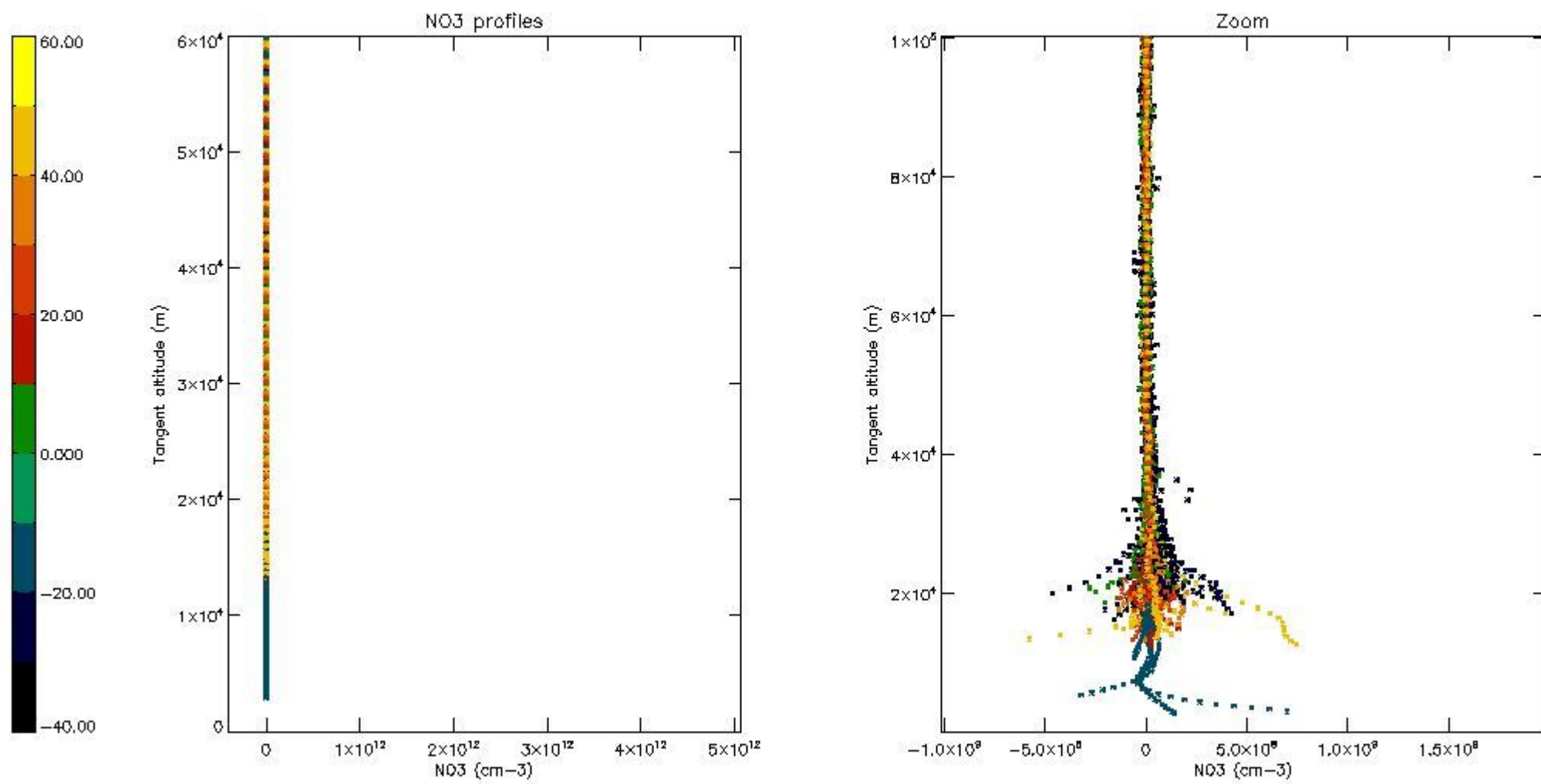
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



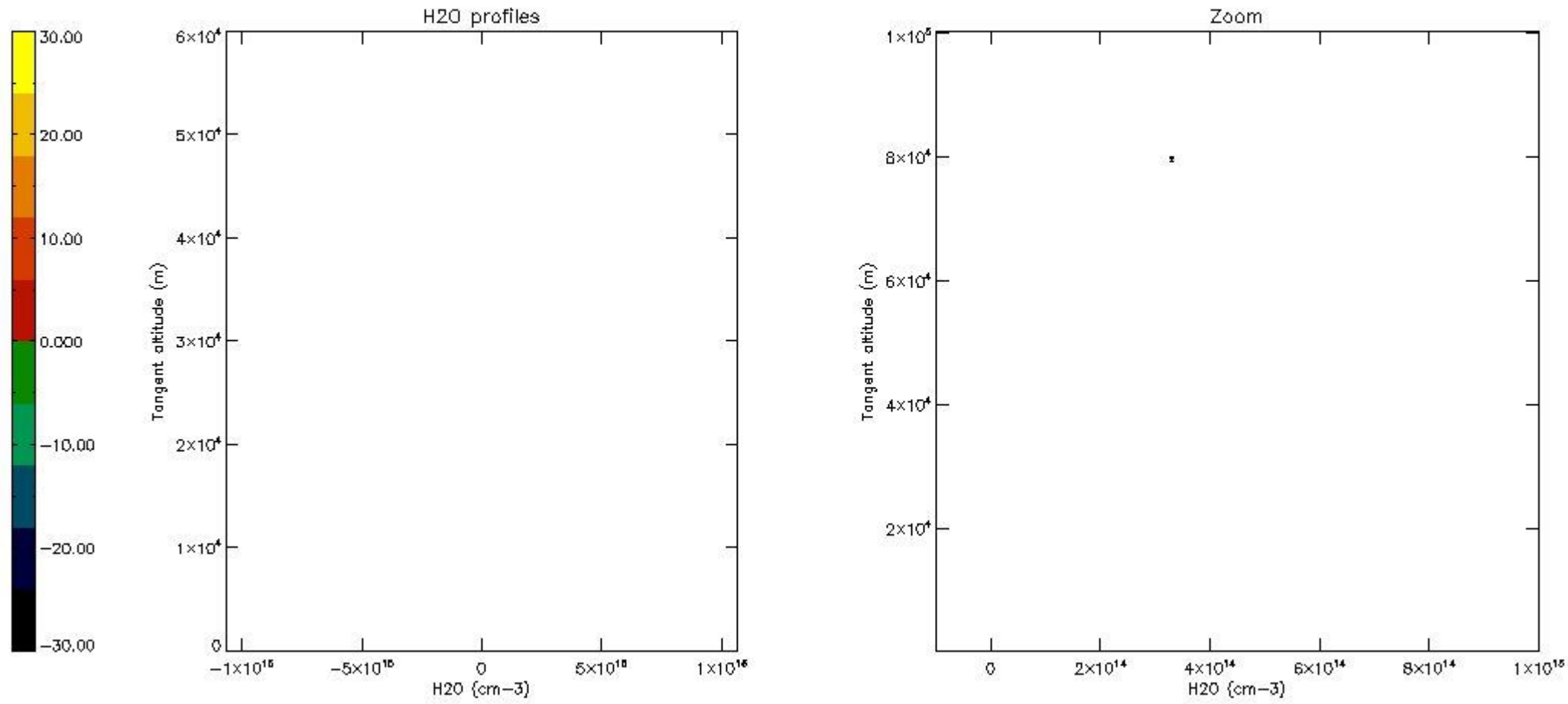
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

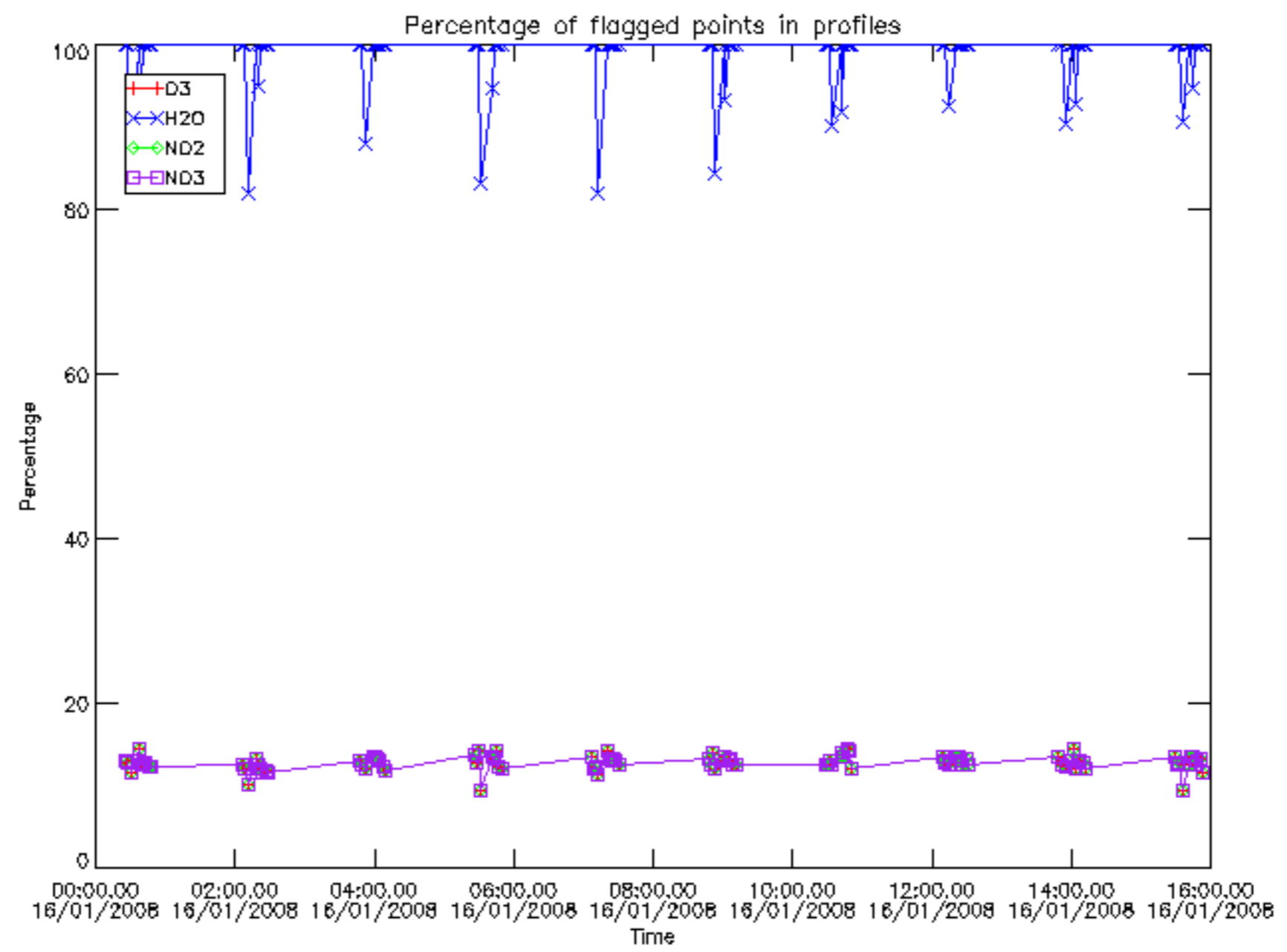
The colorbar represents the latitude.



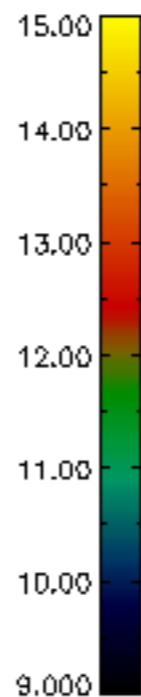
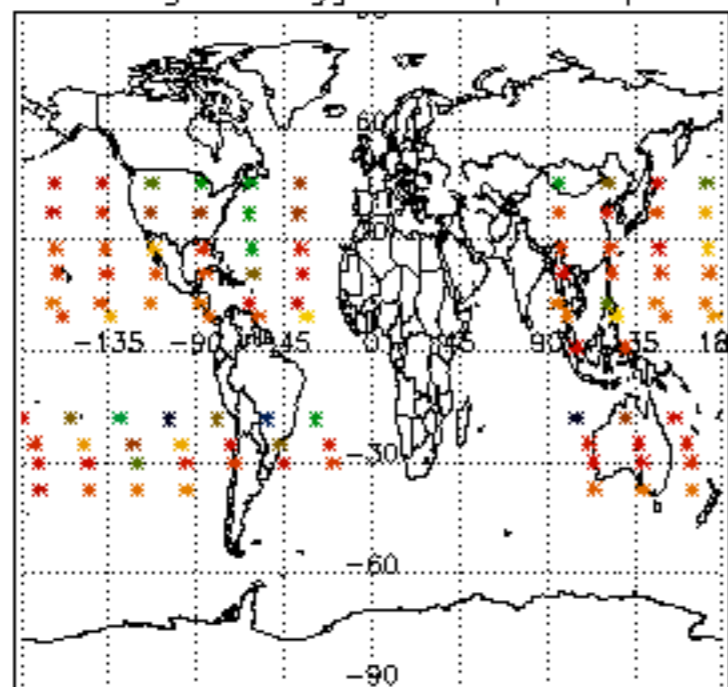
6. Auxiliary Data Files used for the production reported in section 2

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.

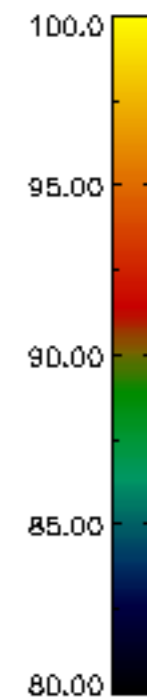
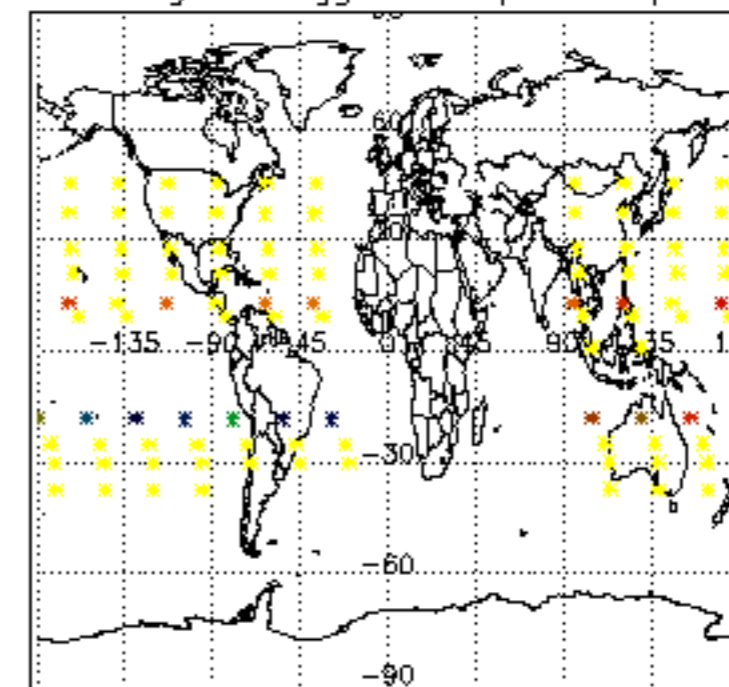
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	16-JAN-2008 00:02:36
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	16-JAN-2008 00:02:36
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	16-JAN-2008 00:02:36



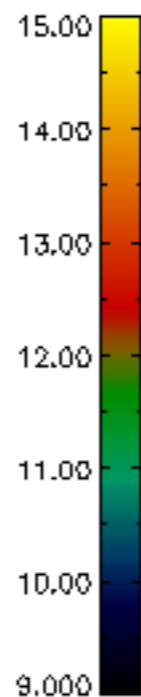
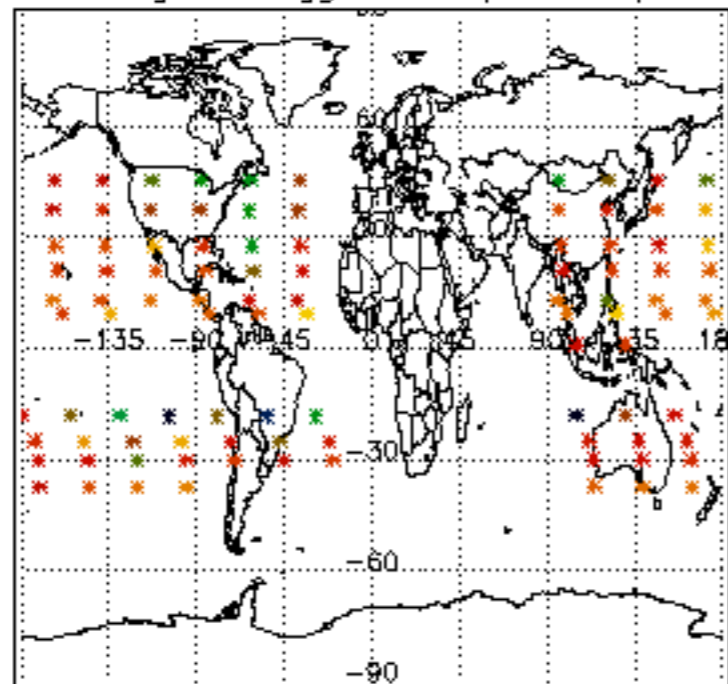
Percentage of flagged data per D3 profile



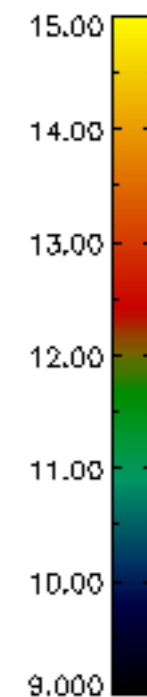
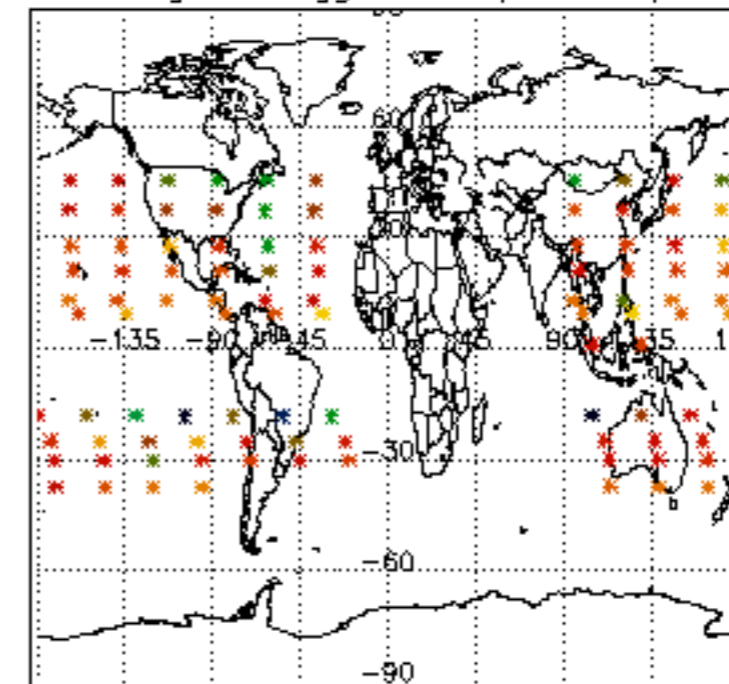
Percentage of flagged data per H2O profile

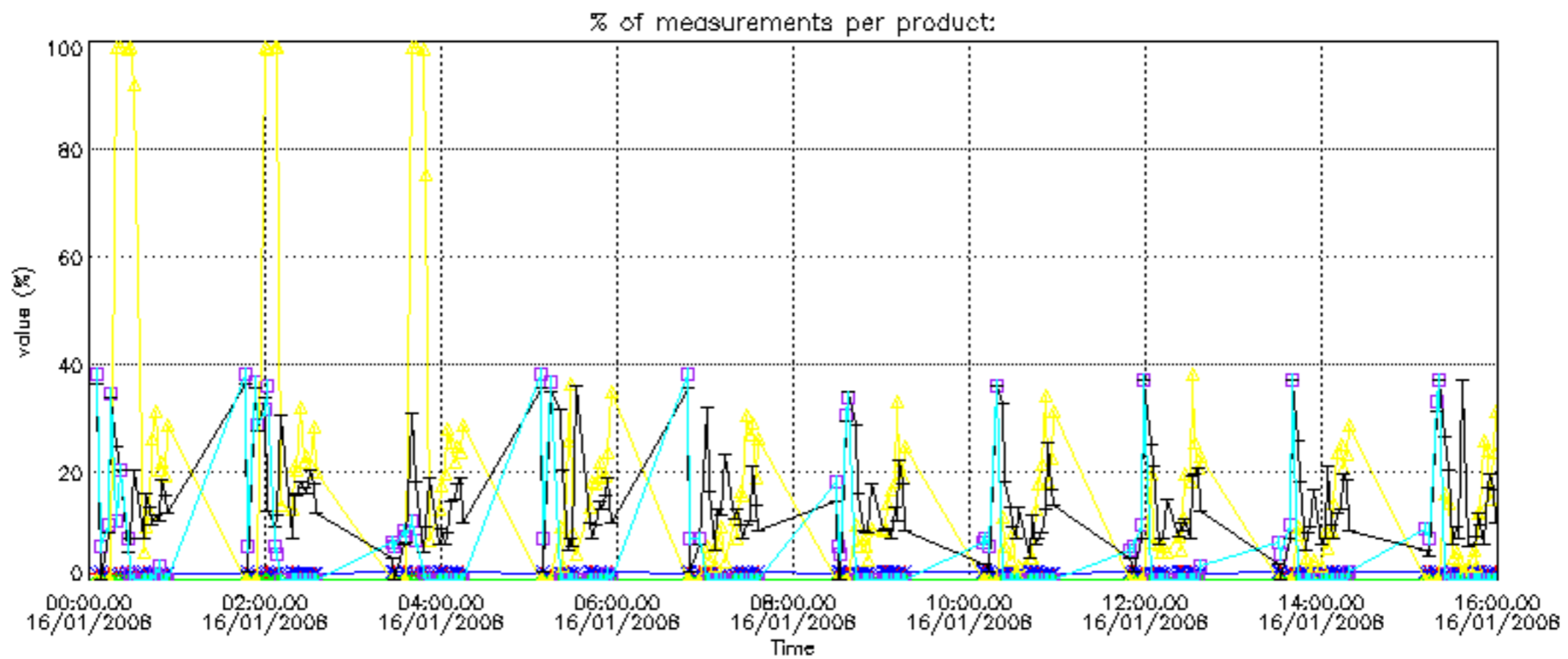


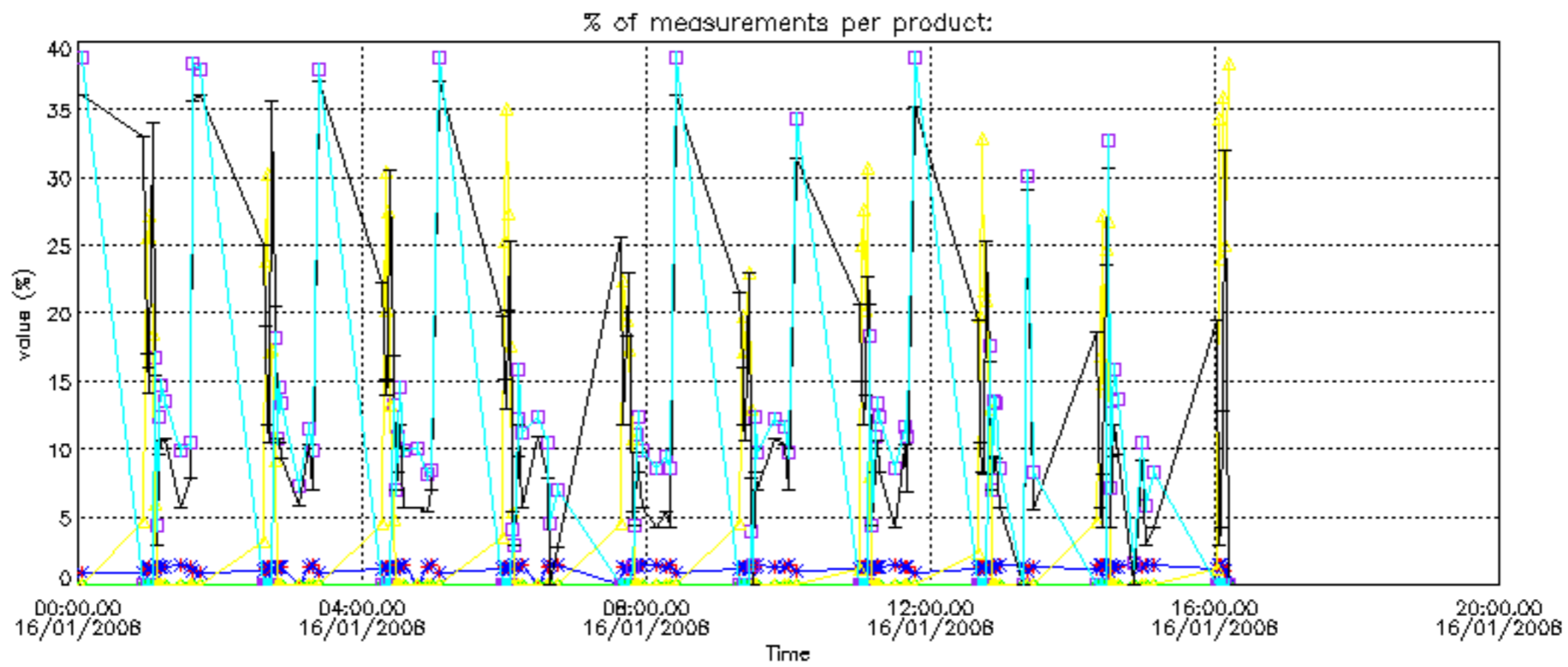
Percentage of flagged data per NO2 profile



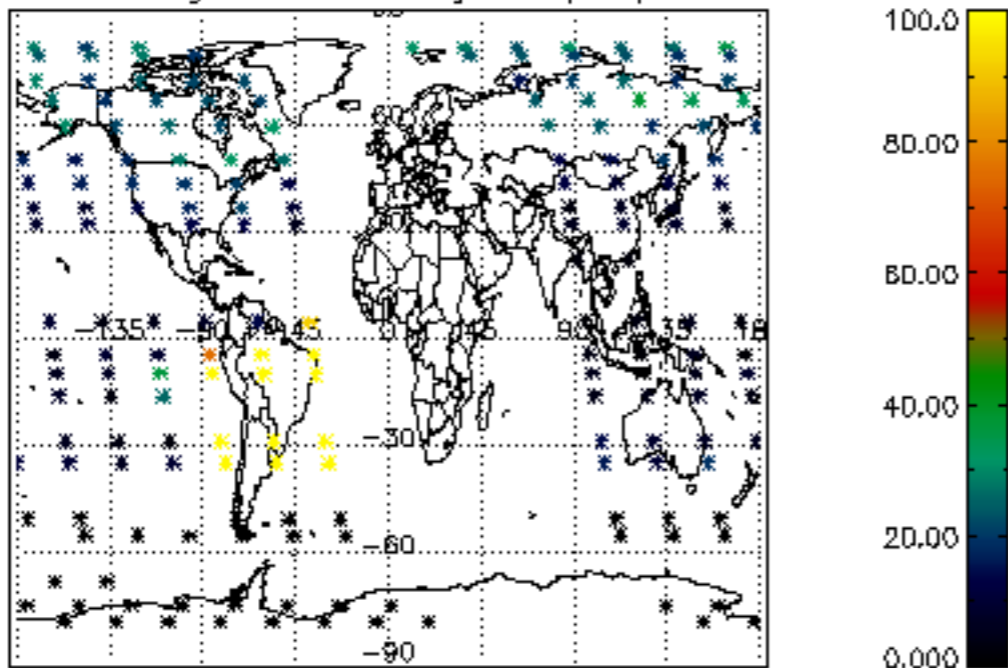
Percentage of flagged data per NO3 profile



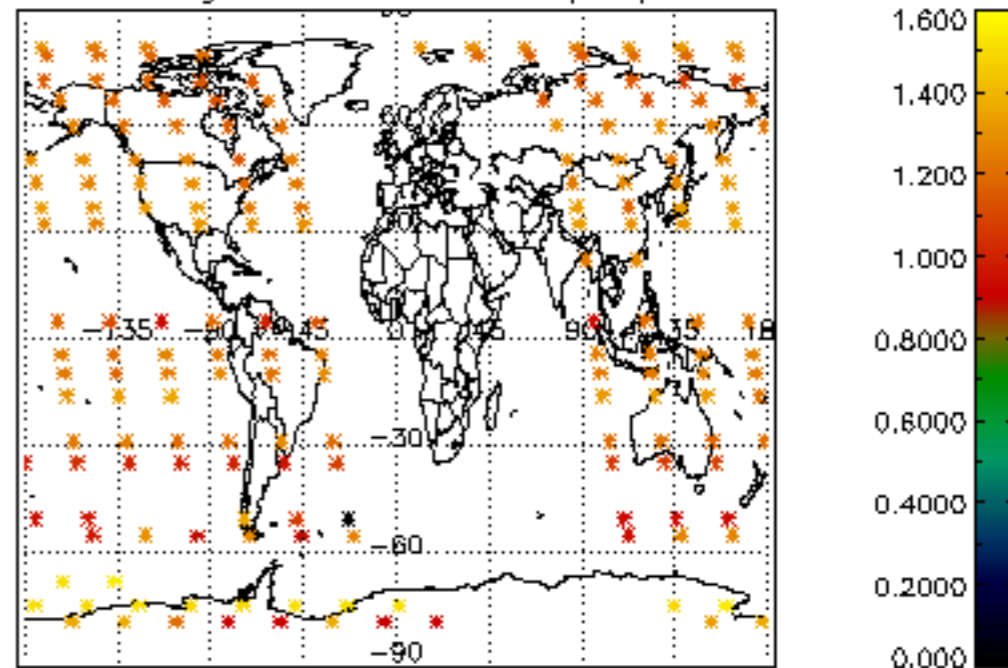




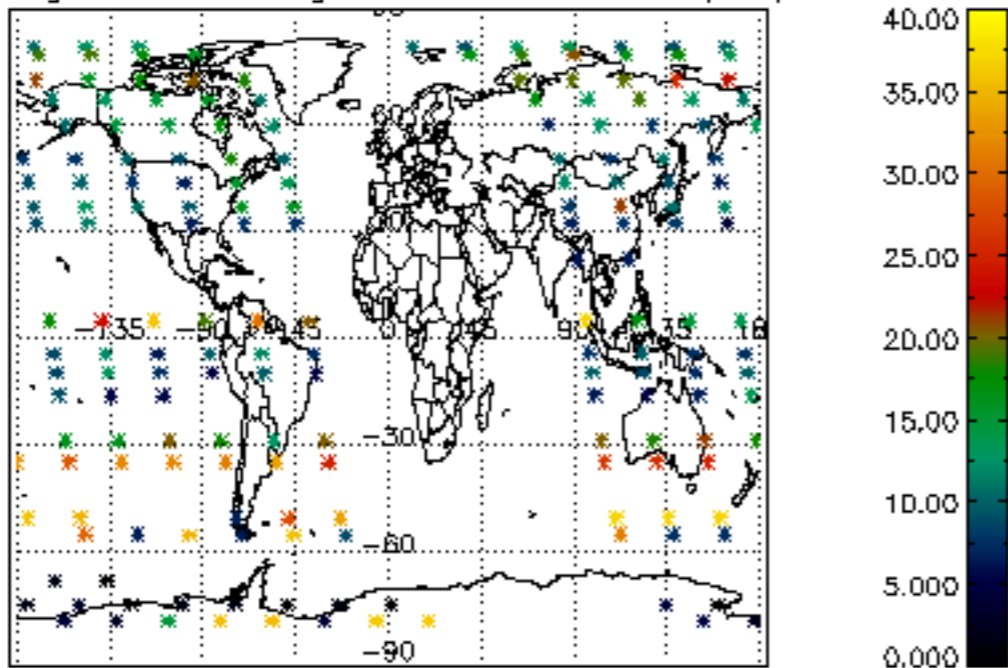
Percentage of cosmic ray hits per profile



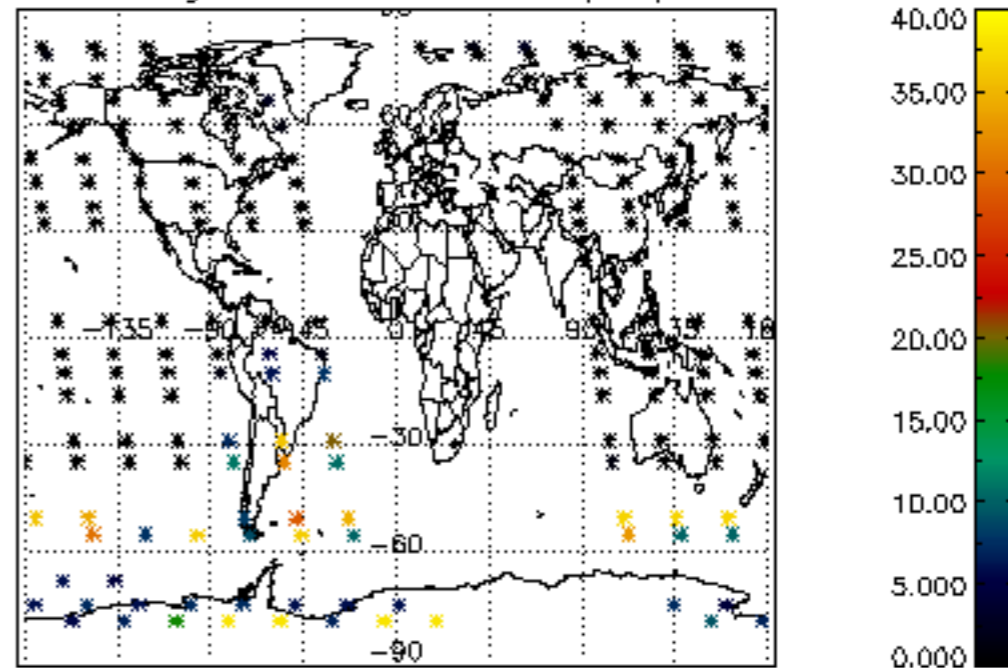
Percentage of datation errors per profile



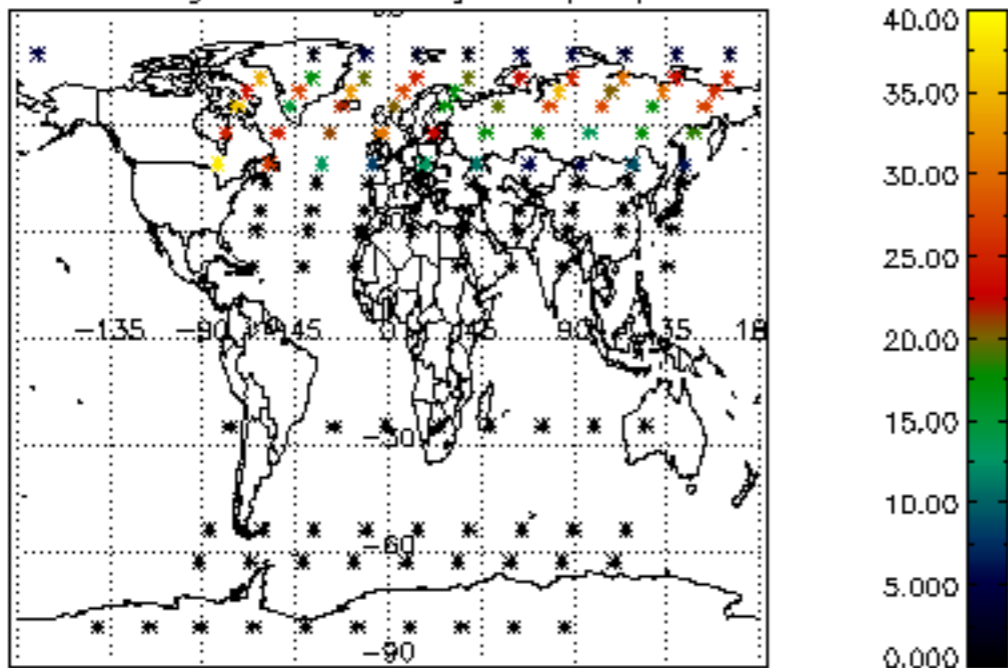
Percentage of star falling outside central band per profile



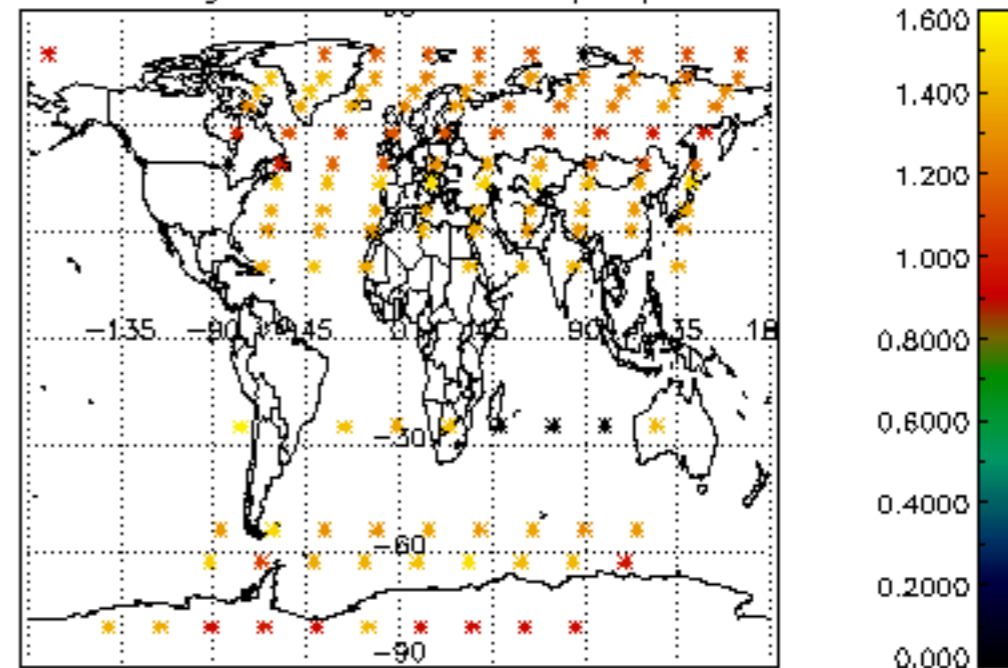
Percentage of saturation errors per profile



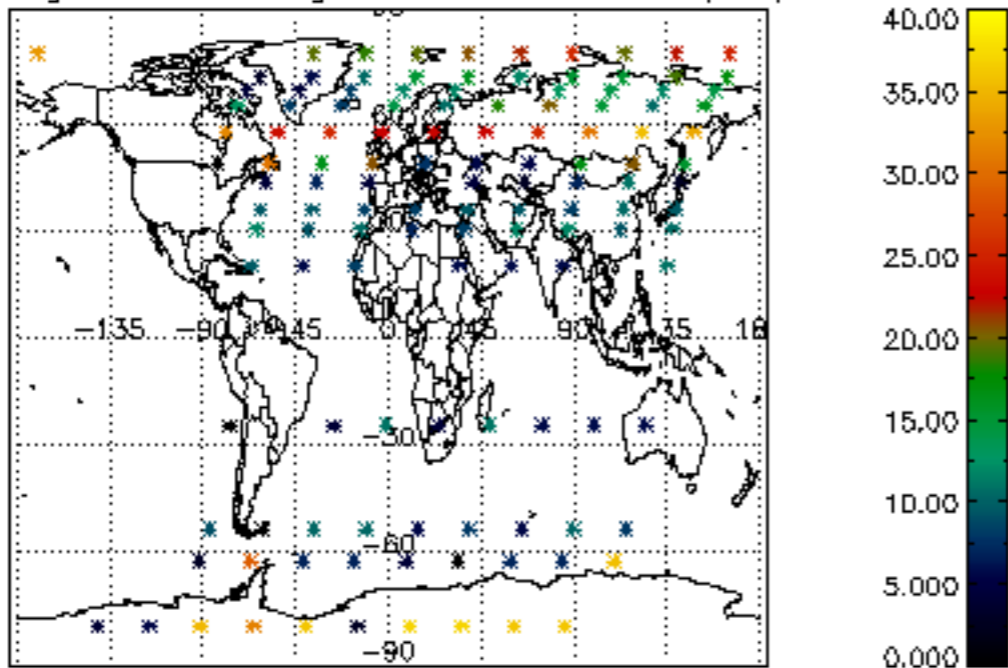
Percentage of cosmic ray hits per profile



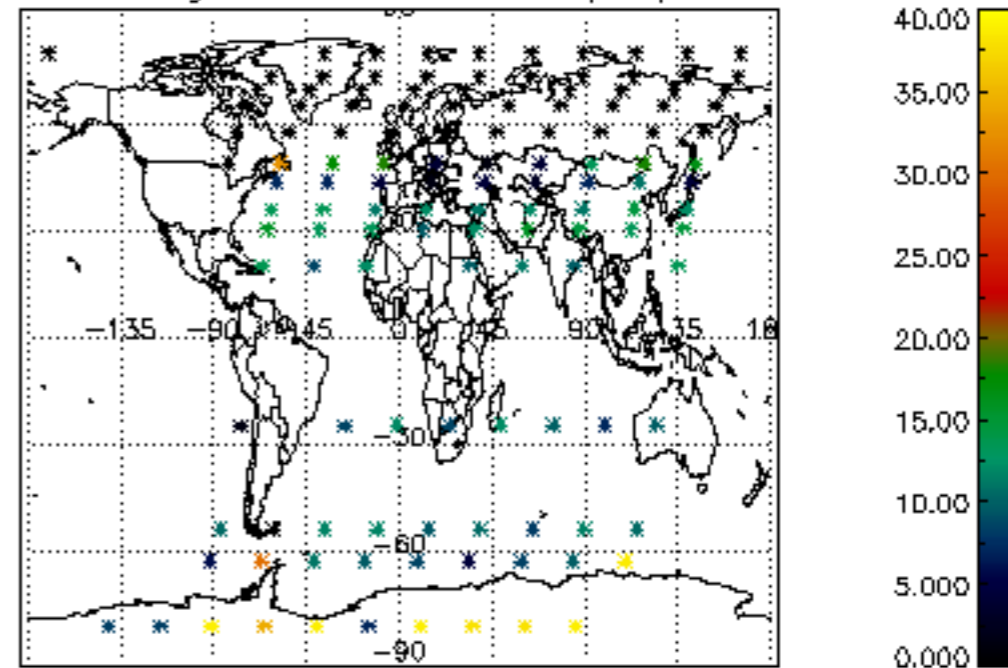
Percentage of datation errors per profile

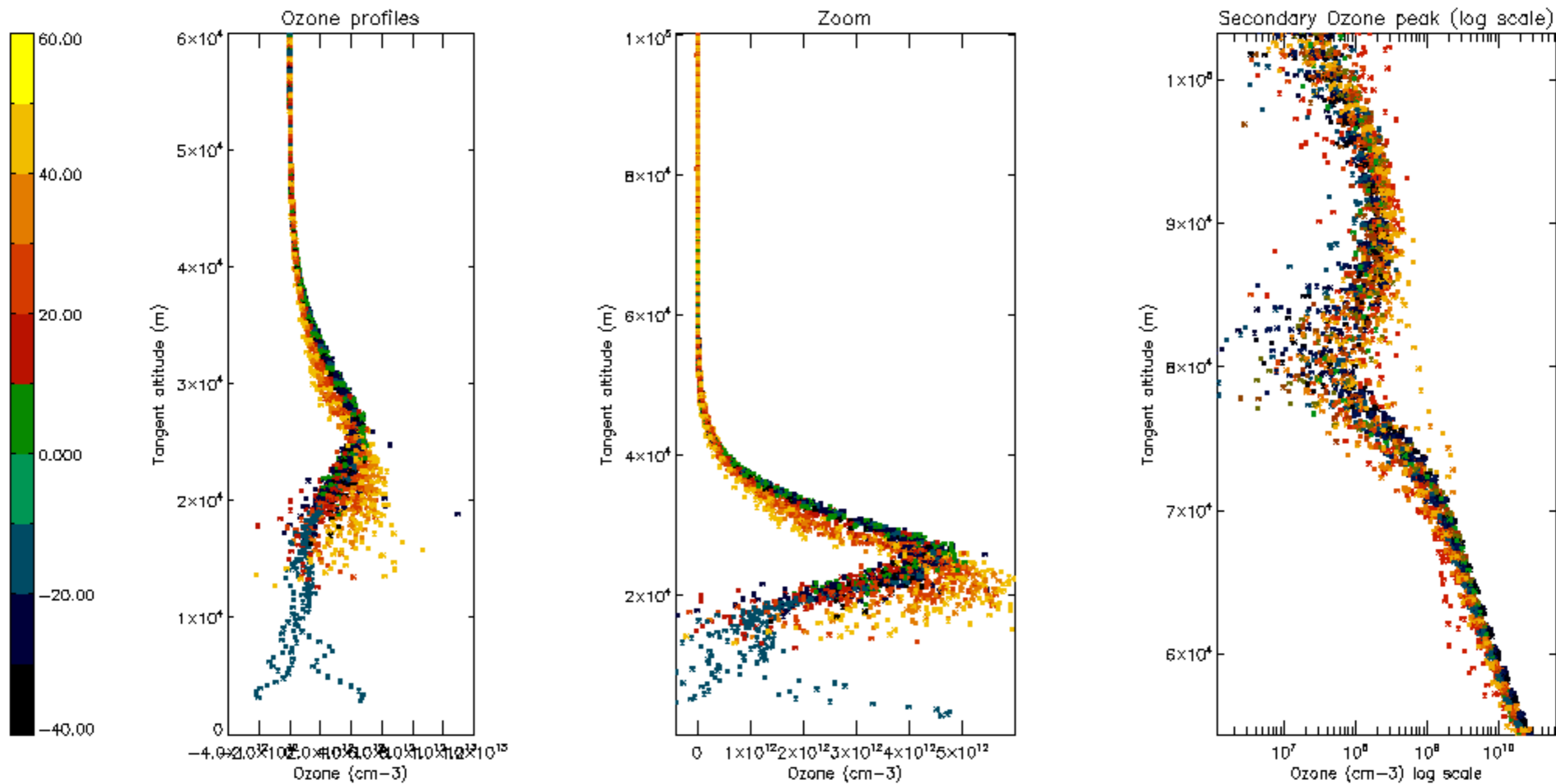


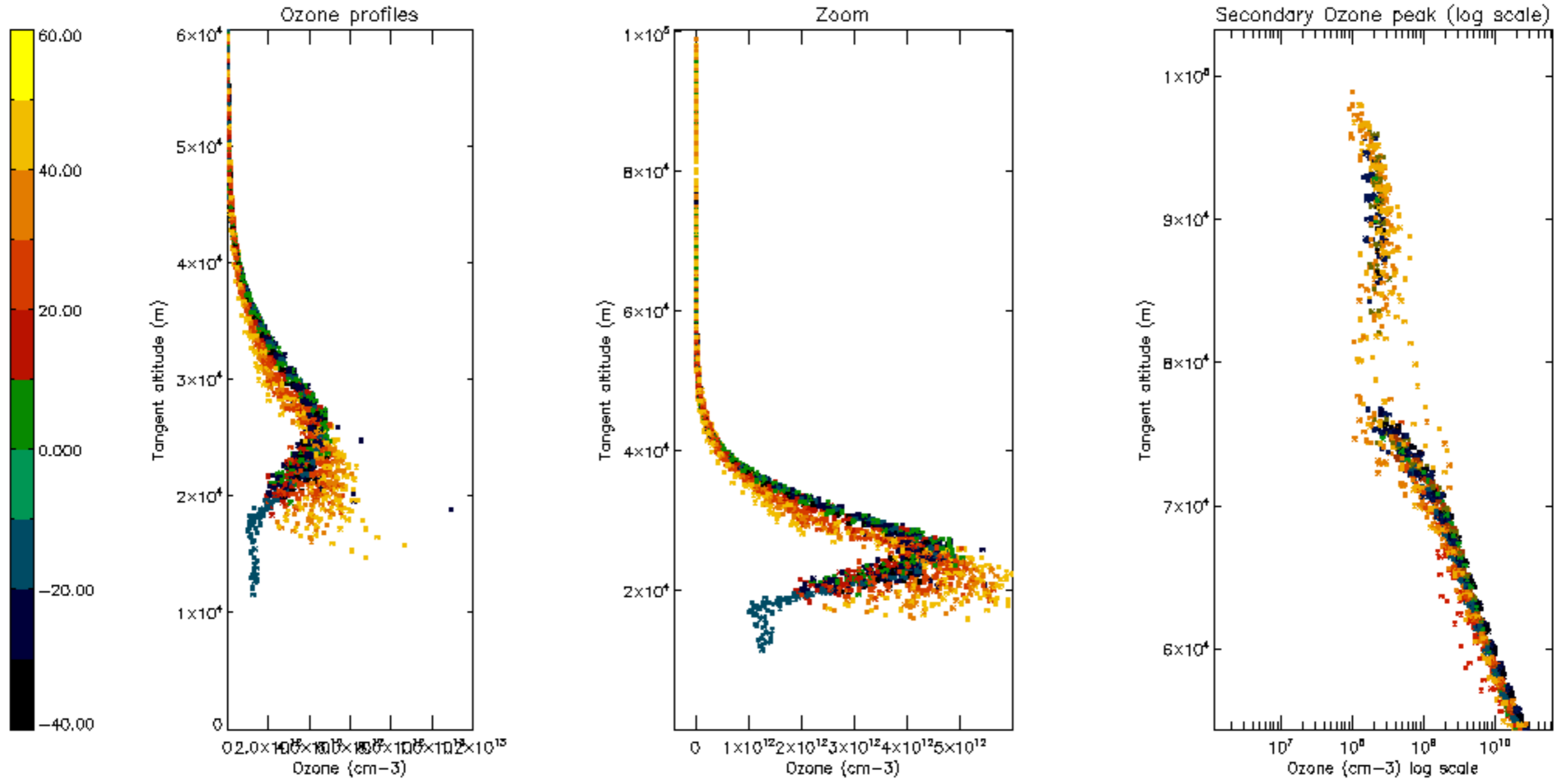
Percentage of star falling outside central band per profile

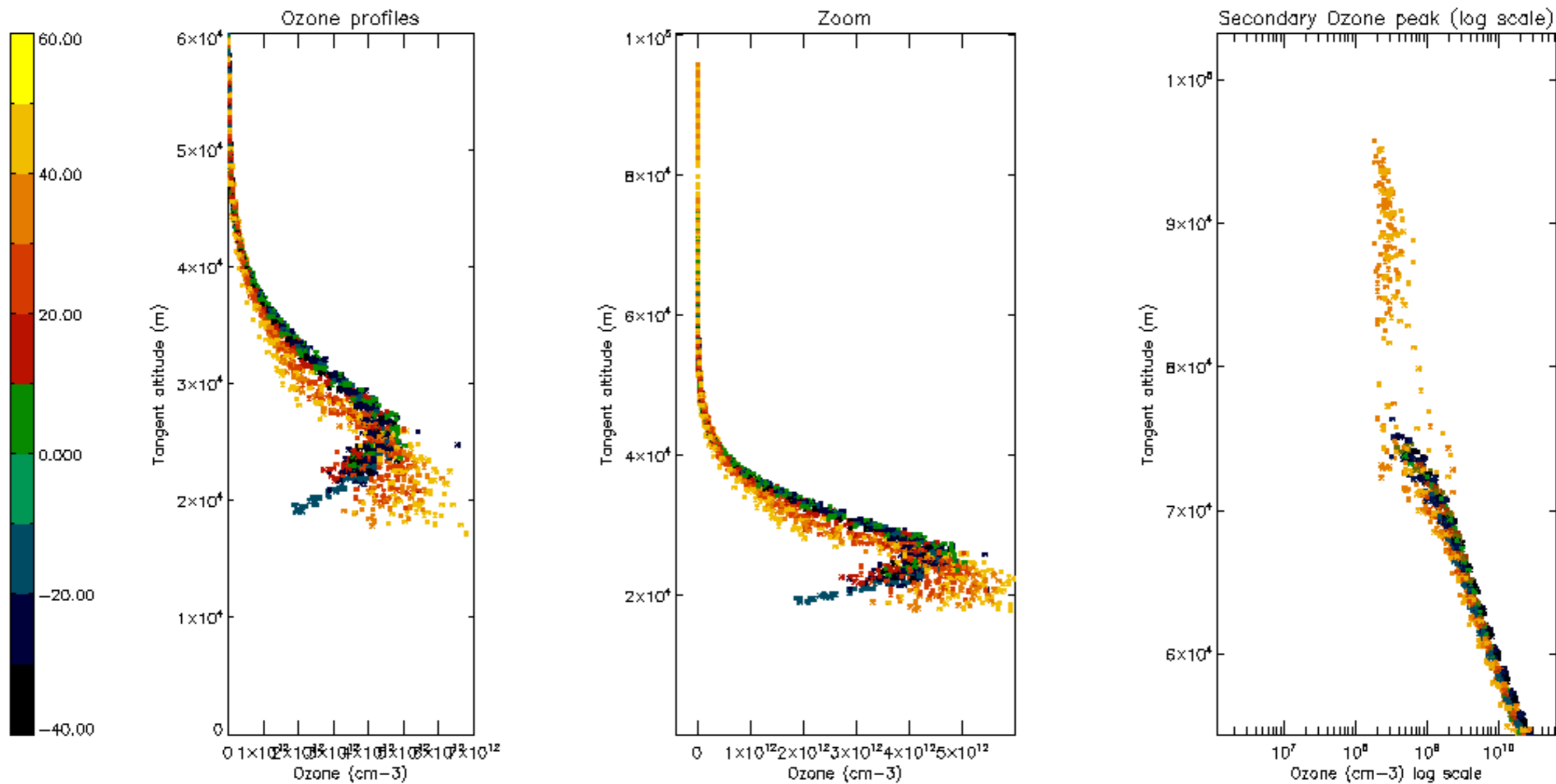


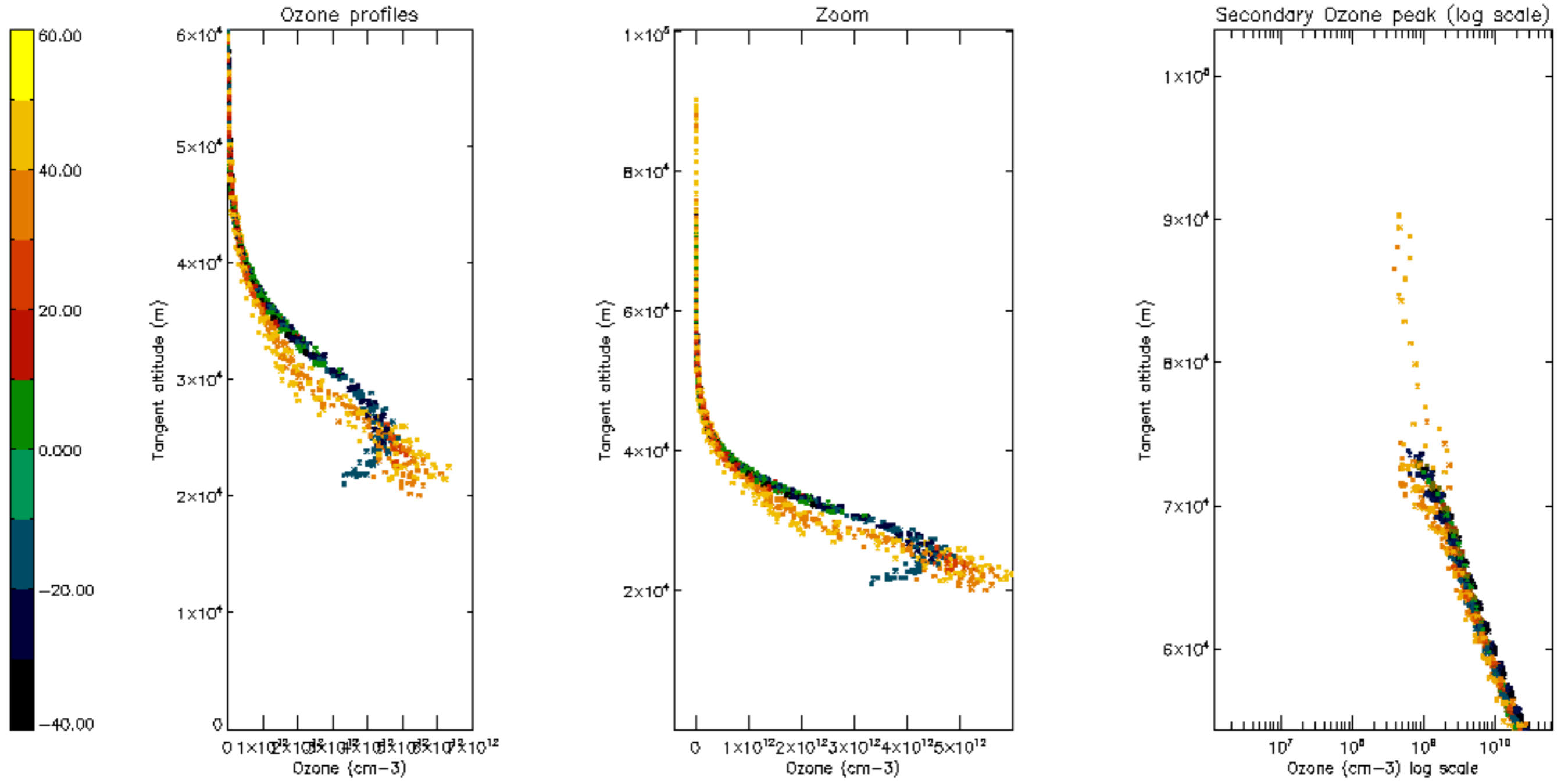
Percentage of saturation errors per profile

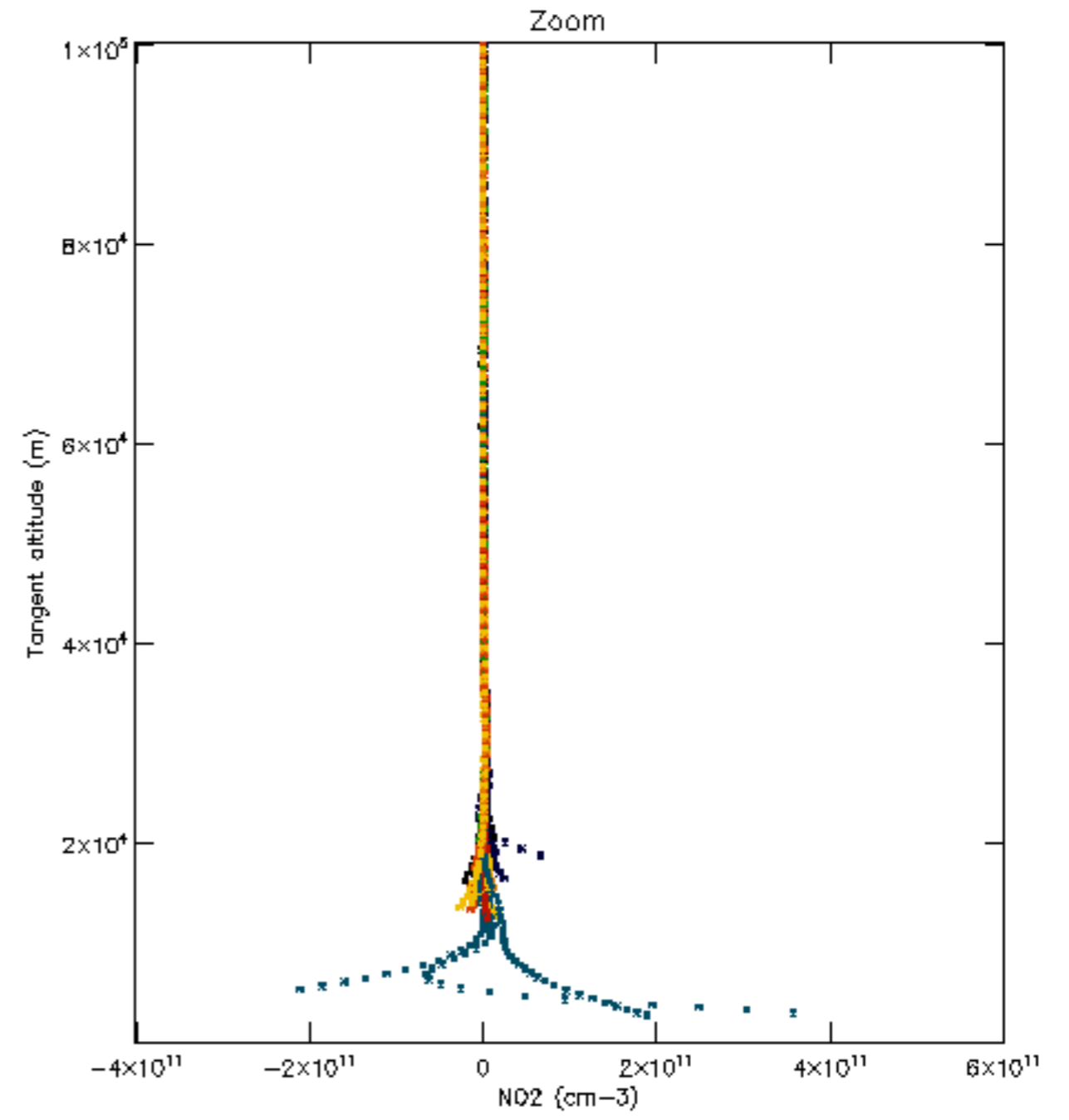
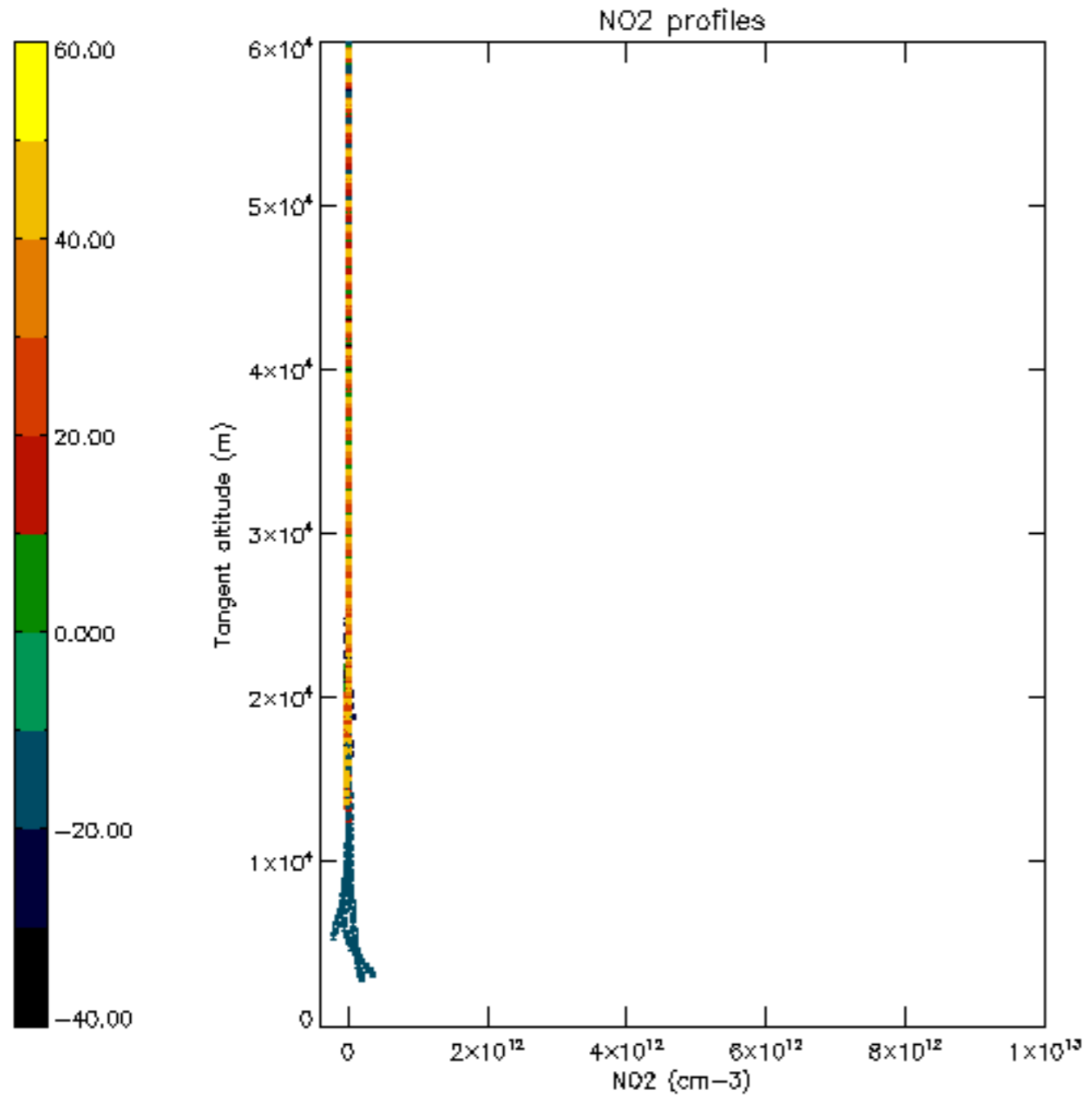


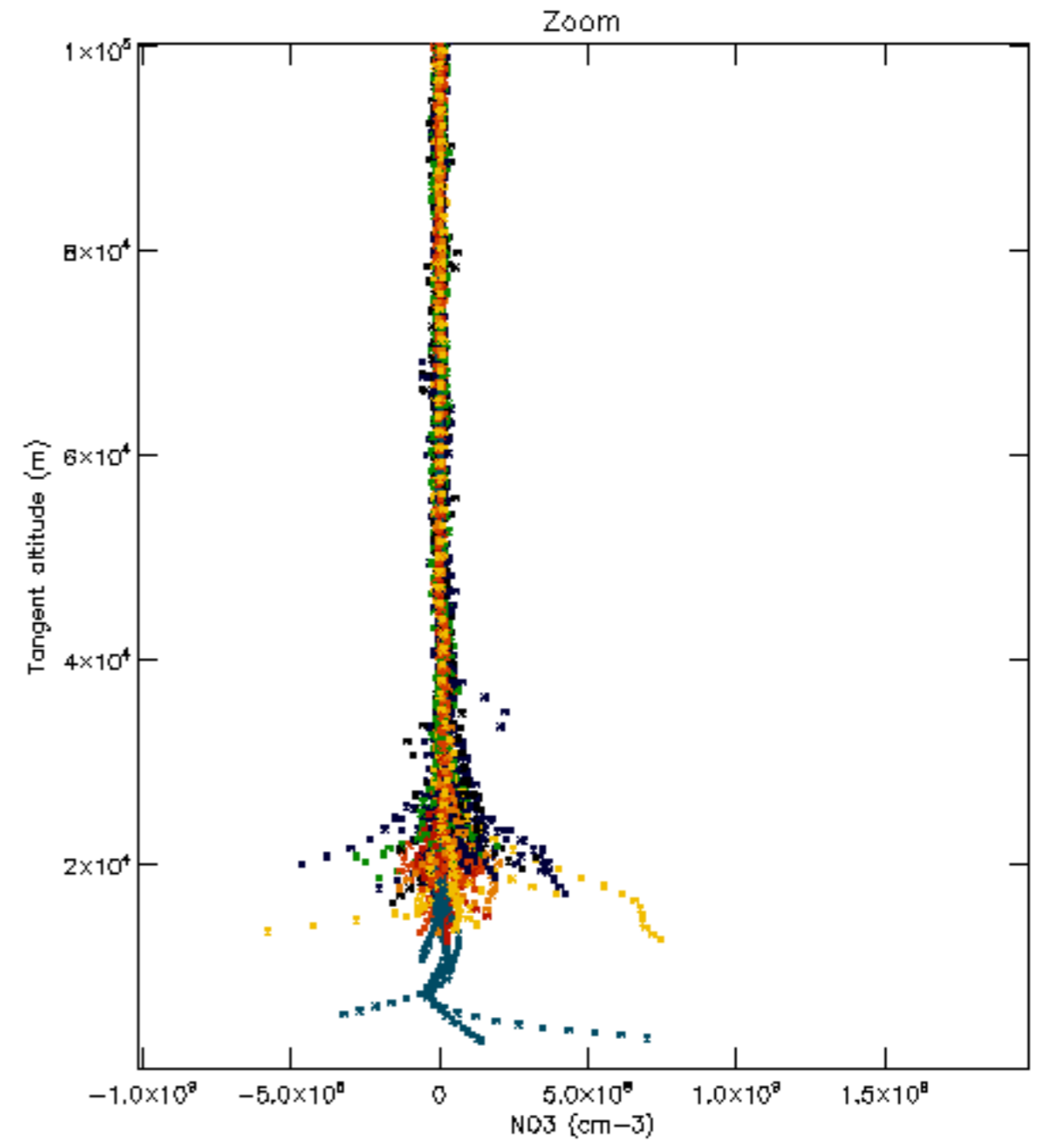
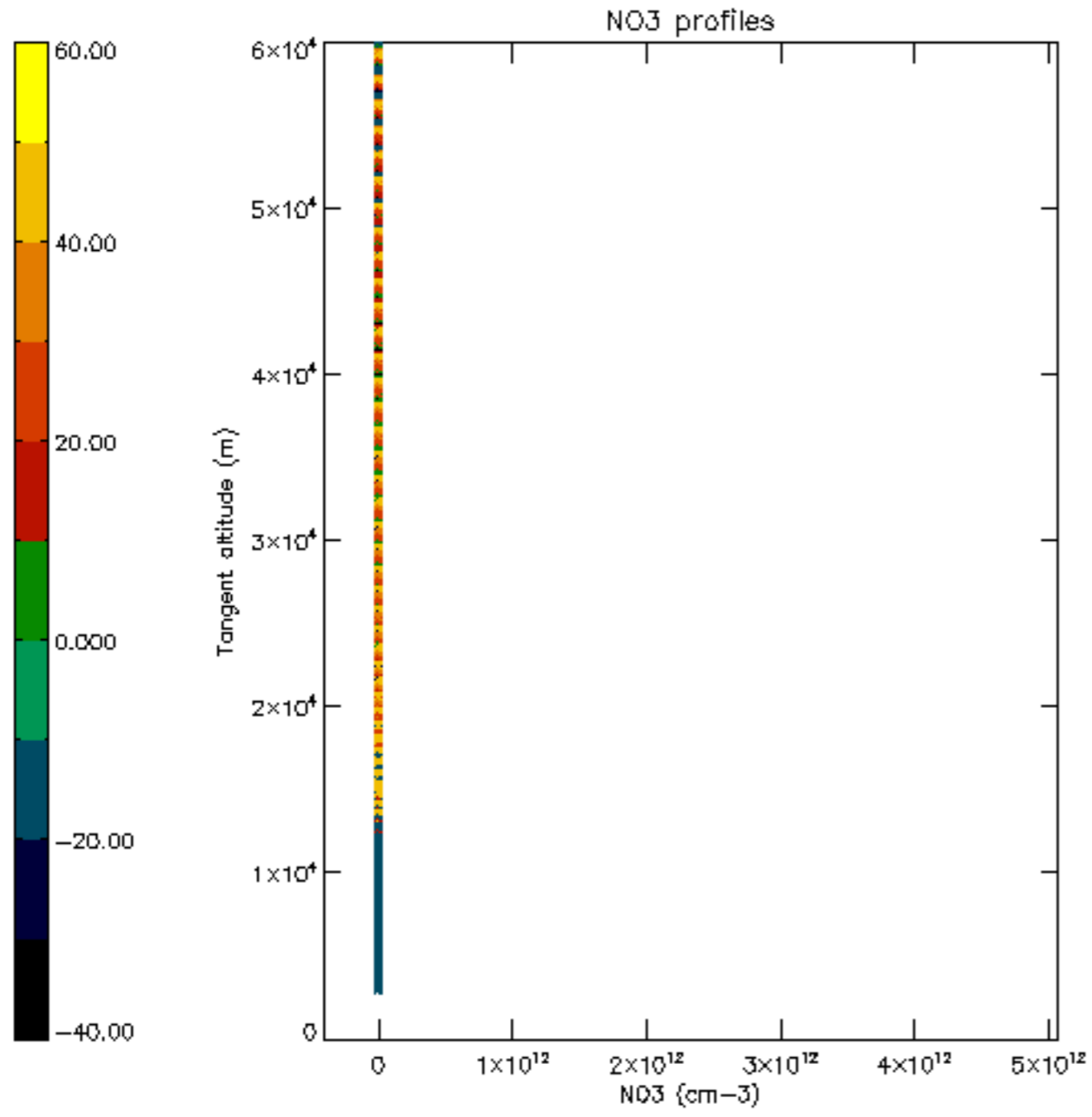


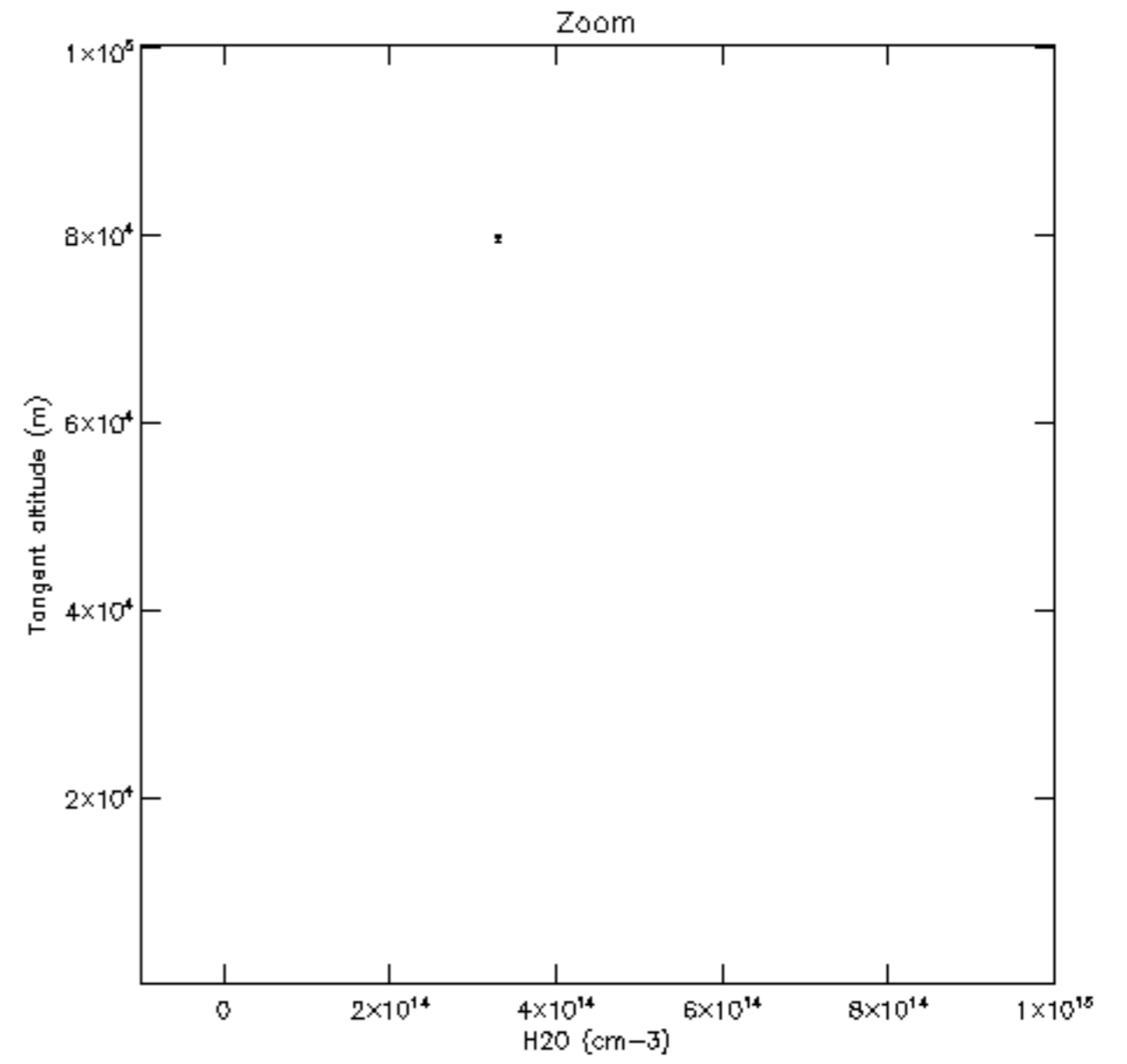
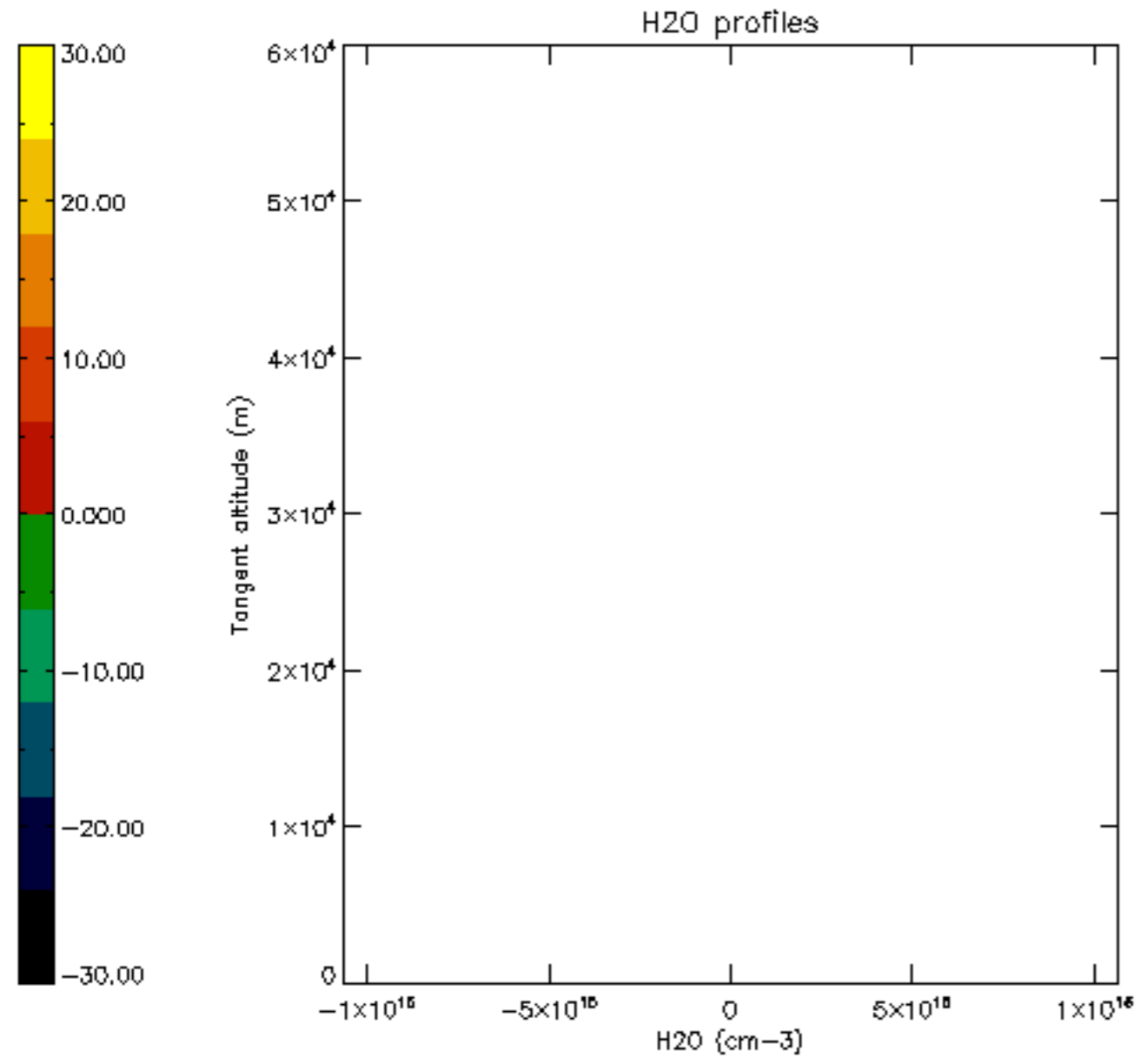


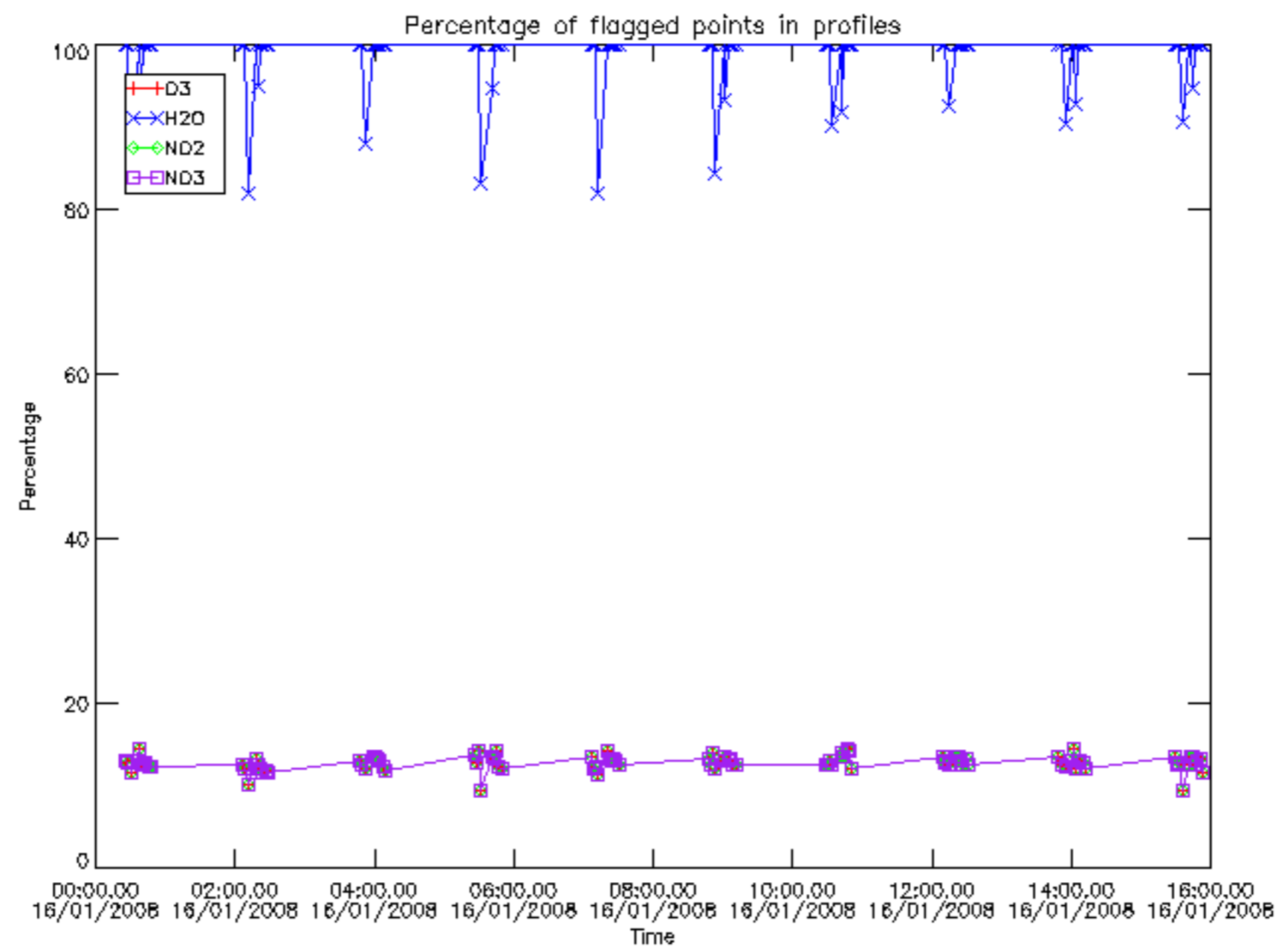




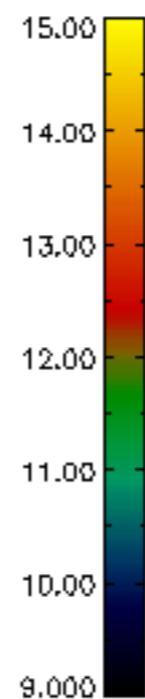
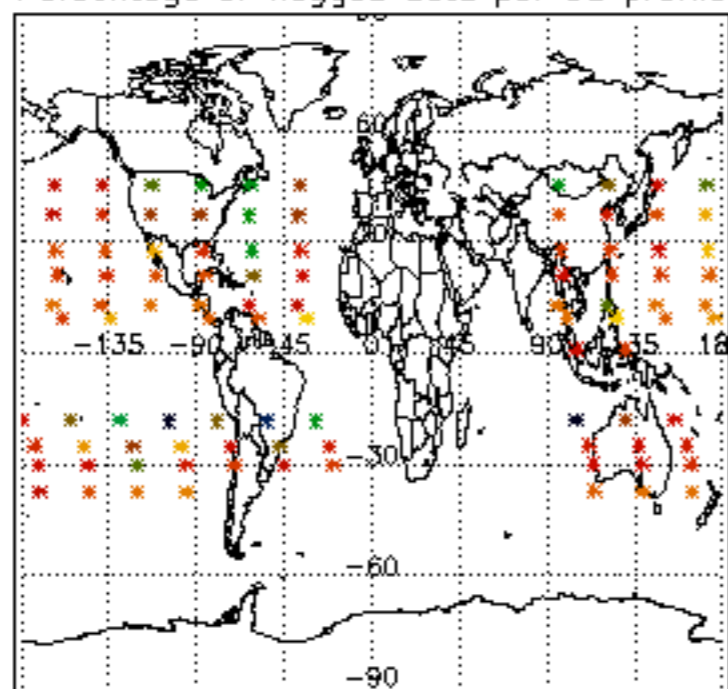




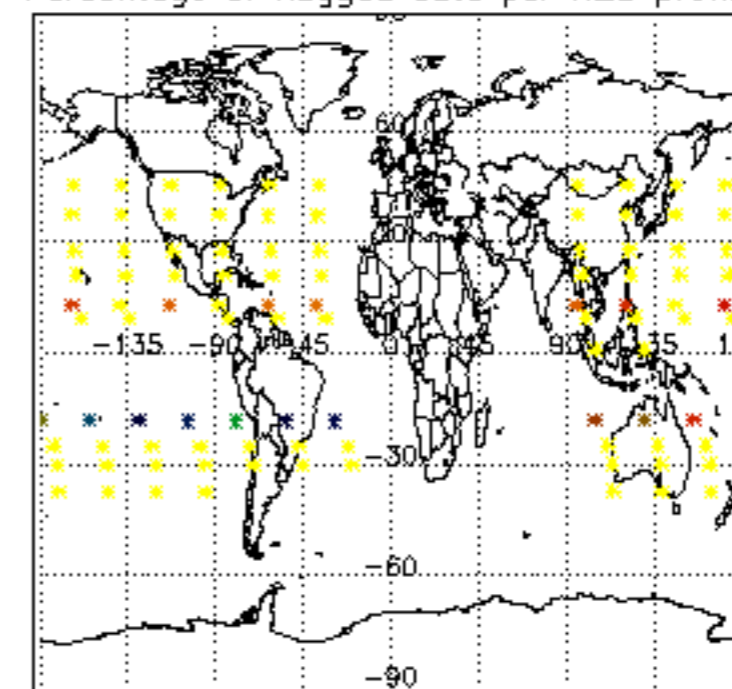




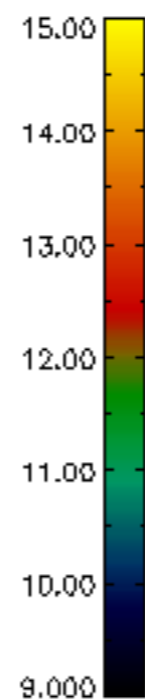
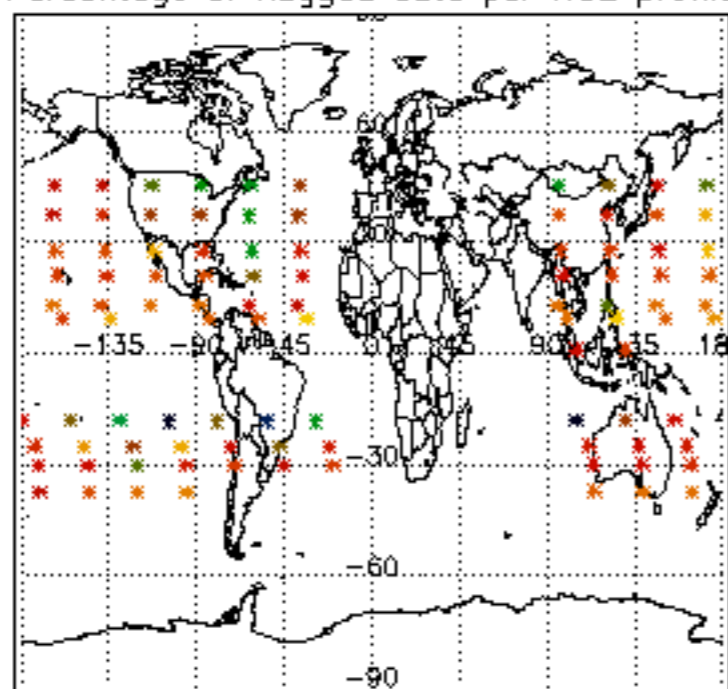
Percentage of flagged data per D3 profile



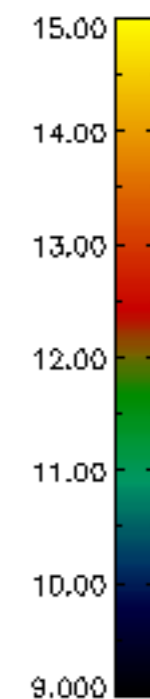
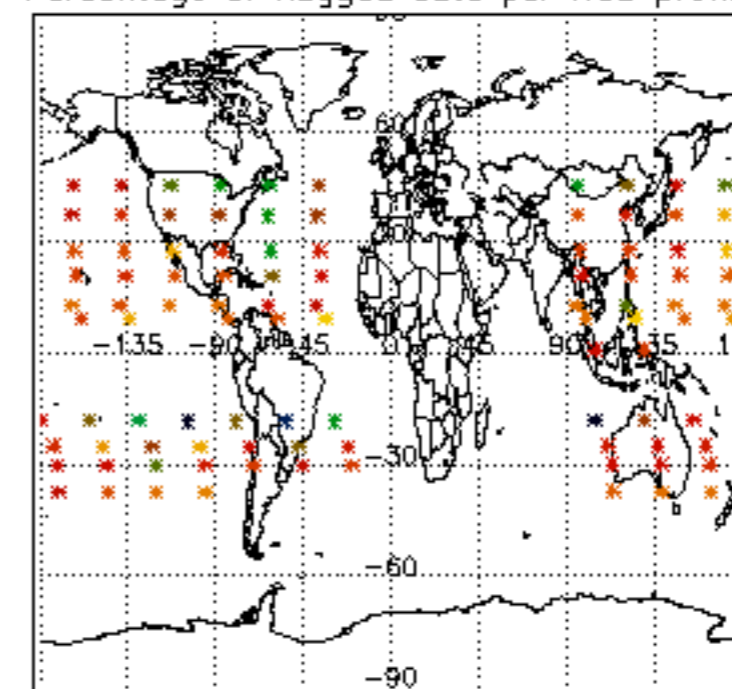
Percentage of flagged data per H2O profile

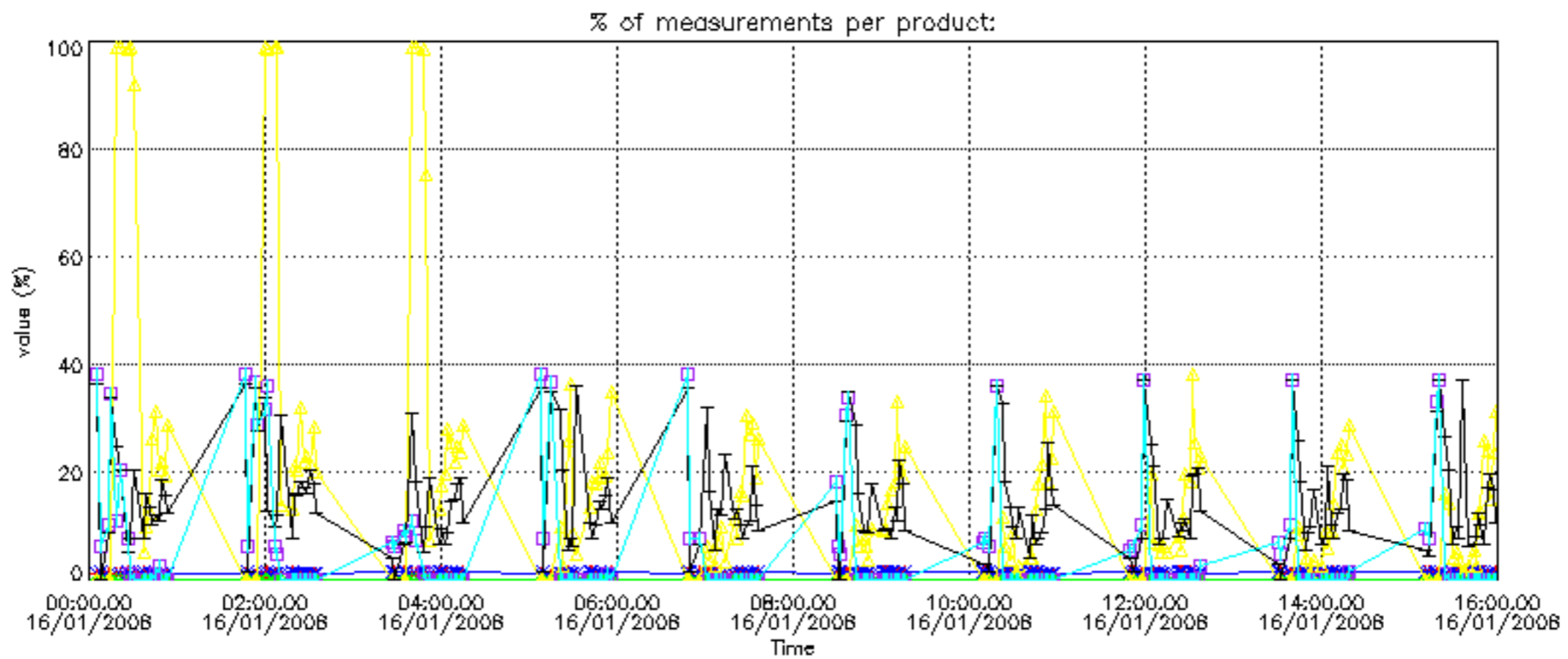


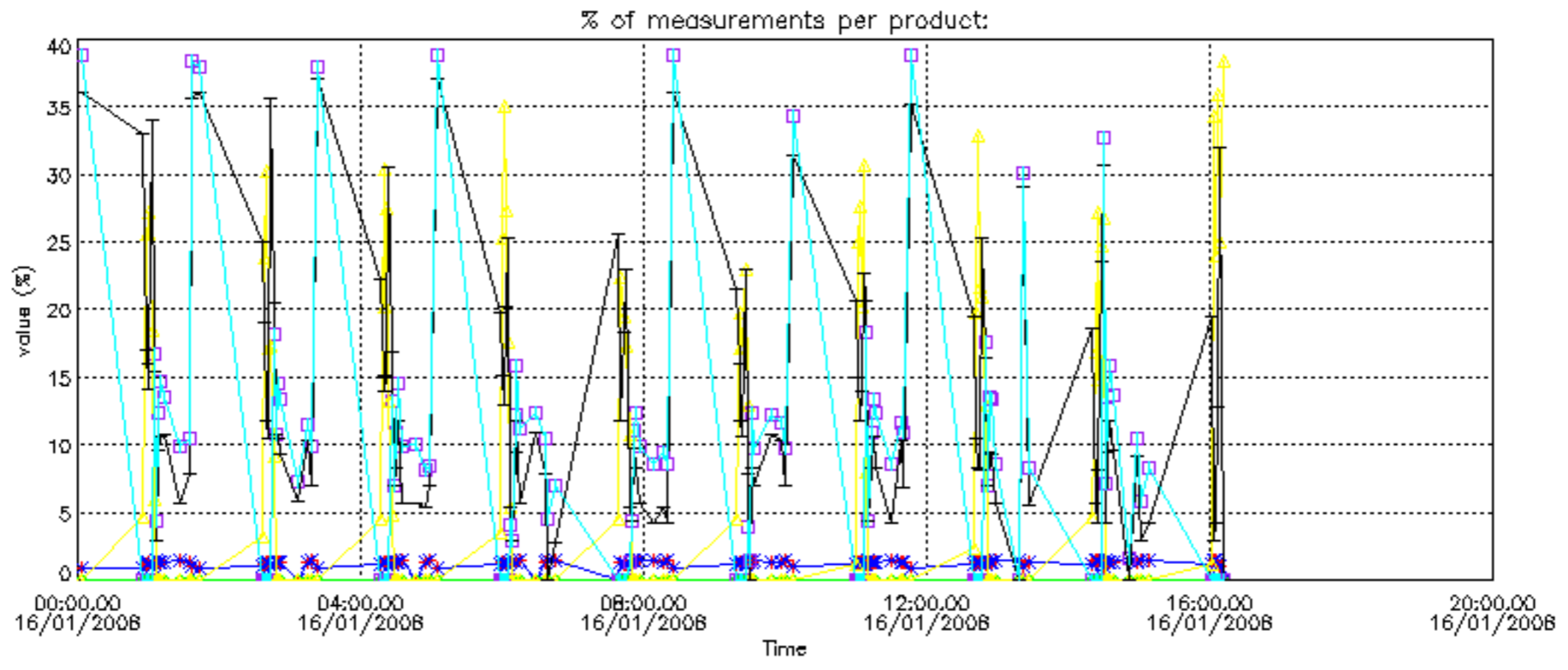
Percentage of flagged data per NO2 profile



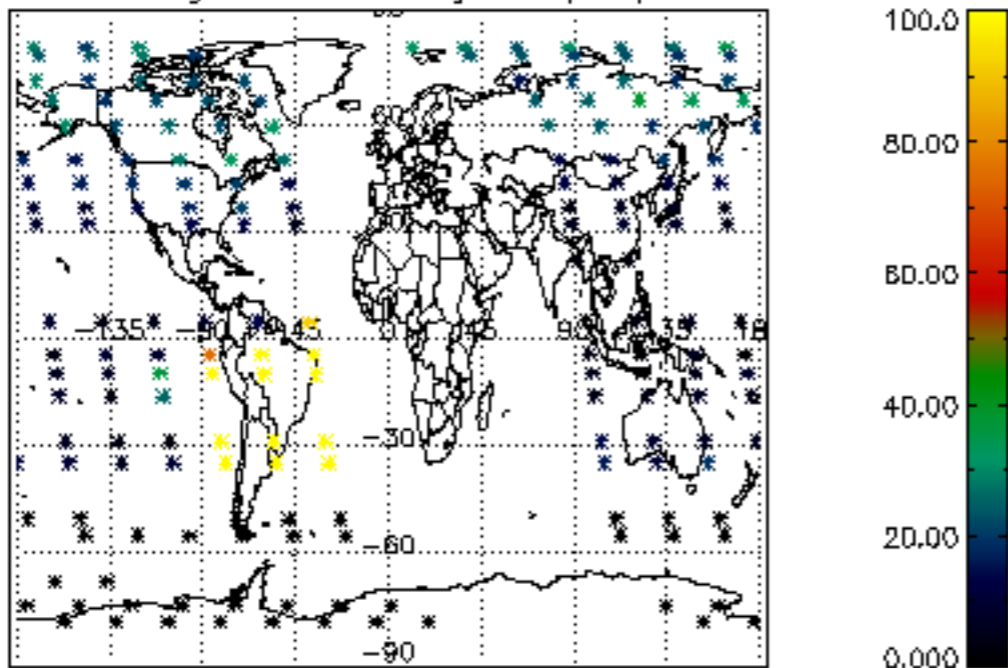
Percentage of flagged data per NO3 profile



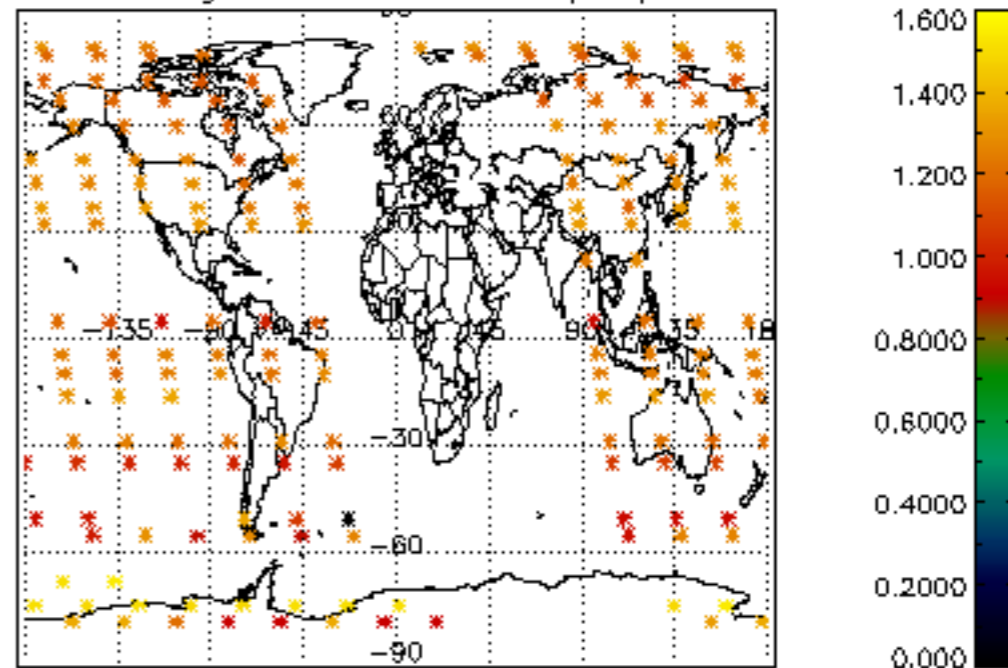




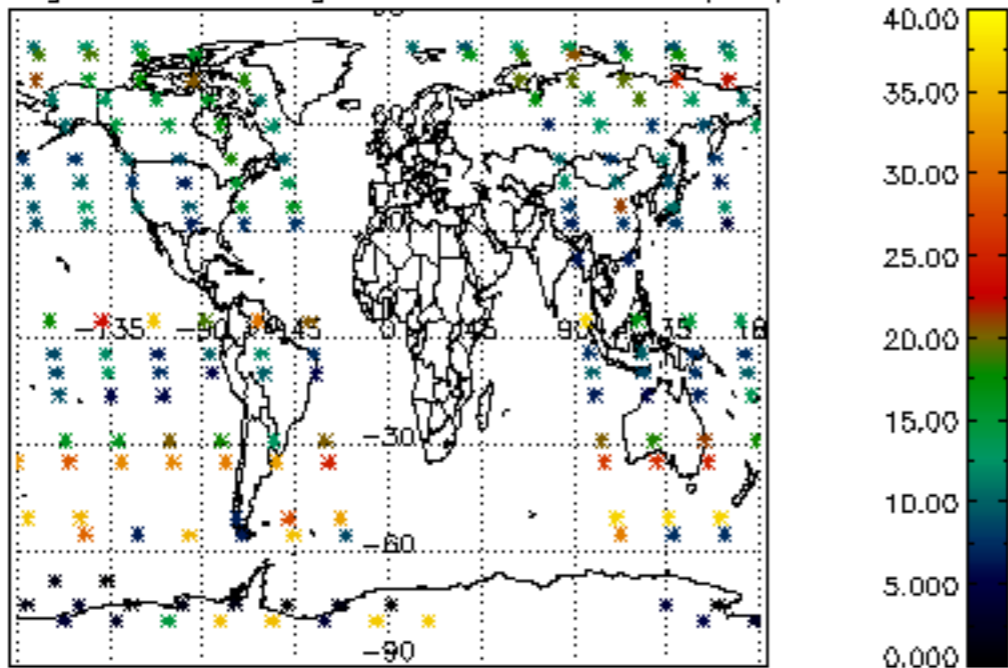
Percentage of cosmic ray hits per profile



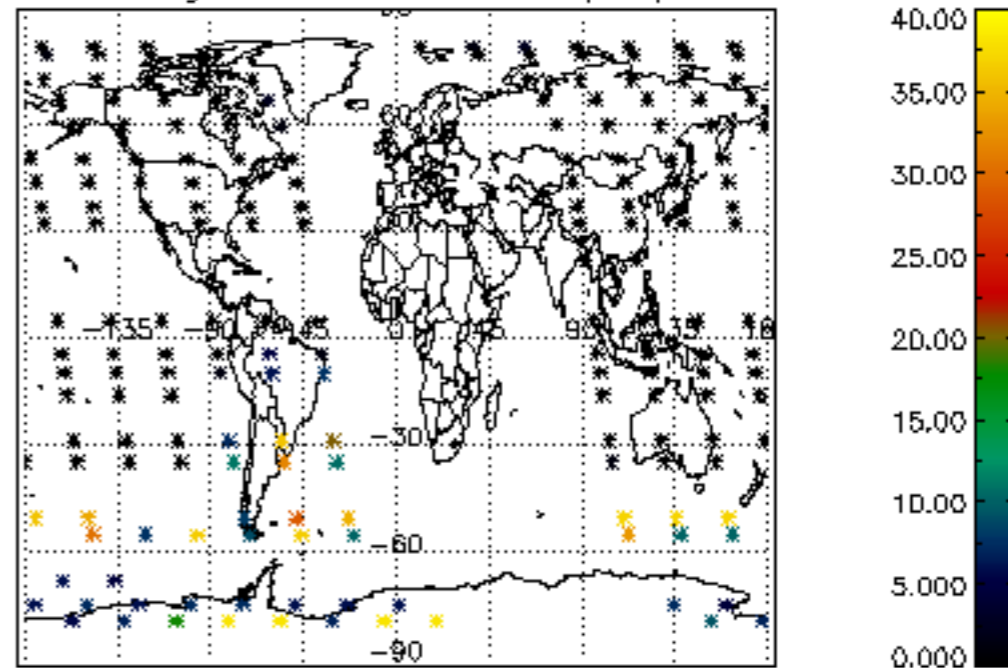
Percentage of datation errors per profile



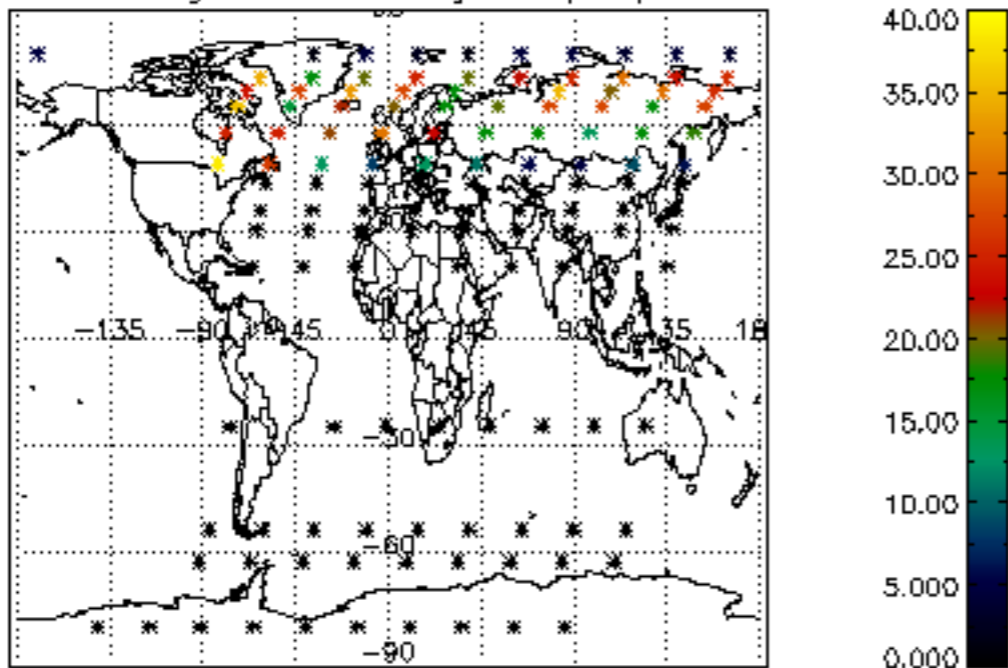
Percentage of star falling outside central band per profile



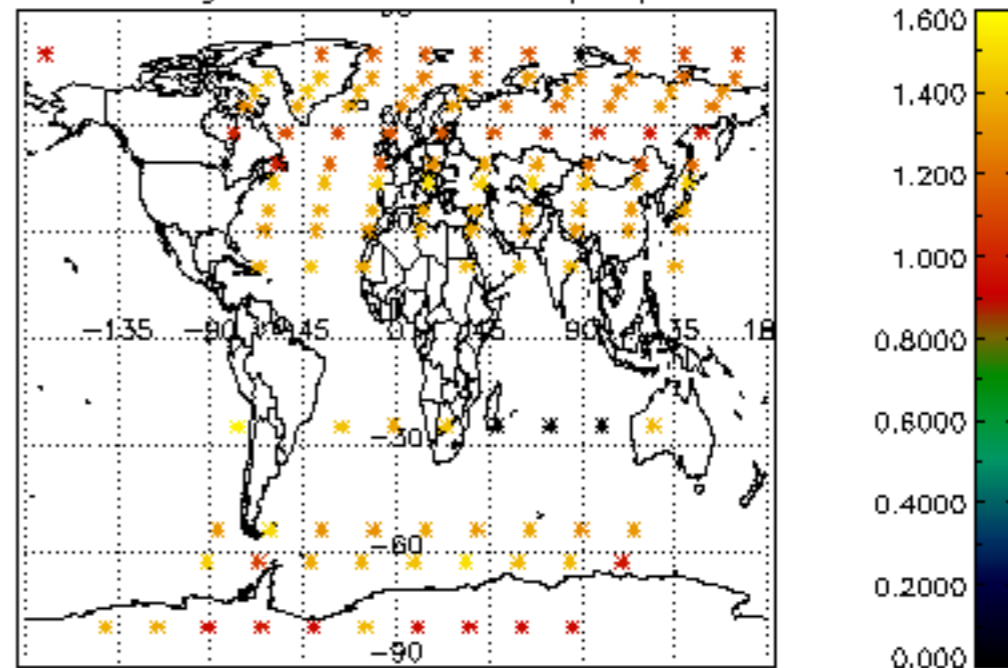
Percentage of saturation errors per profile



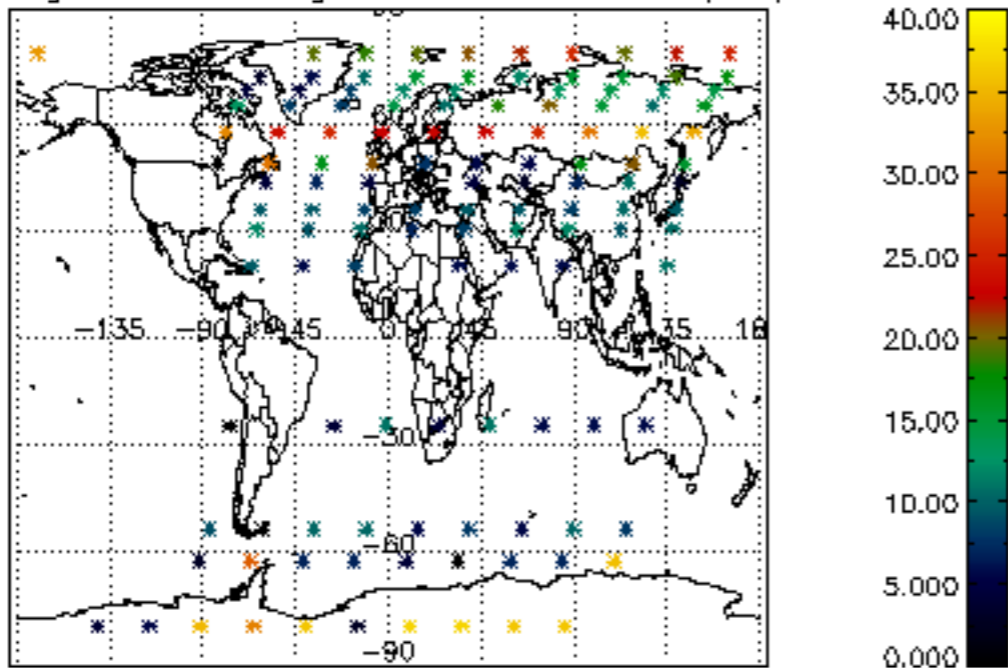
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

