

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 17:00:11
Data source version	GOMOS/6.01
Start time of products	03-01-2008 (03JAN2008 00:00:00)
Stop time of products	04-01-2008 (04JAN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	413
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

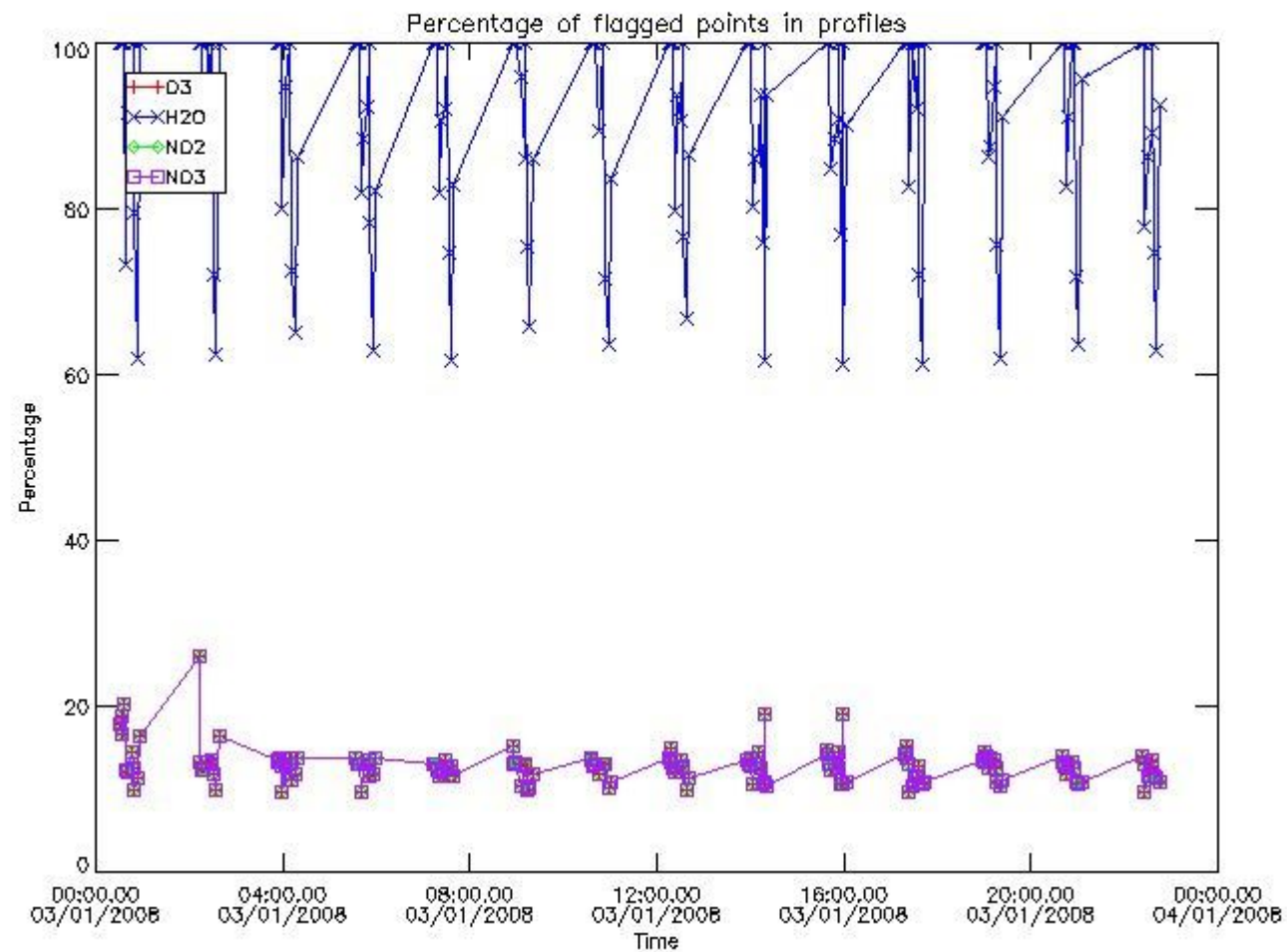
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20080103_000222_000000352064_00431_30545_5376.N1	03-JAN-2008 00:02:22	Bright	34.500	119	14Eta Dra	2.7270	4700.0	69	30545	No
2	GOM_NL__2PRFIN20080103_000432_000000352064_00431_30545_5377.N1	03-JAN-2008 00:04:32	Bright	34.500	130	23Bet Dra	2.7990	5800.0	69	30545	No
3	GOM_NL__2PRFIN20080103_001045_000000522064_00431_30545_5378.N1	03-JAN-2008 00:10:45	Bright	52.000	133	40Zet Her	2.8070	6000.0	104	30545	No
4	GOM_NL__2PRFIN20080103_001249_000000372064_00431_30545_5379.N1	03-JAN-2008 00:12:49	Bright	37.000	67	5Alp CrB	2.2210	11000.	74	30545	No
5	GOM_NL__2PRFIN20080103_001836_000000372064_00431_30545_5380.N1	03-JAN-2008 00:18:36	Bright	36.500	102	24Alp Ser	2.6000	4250.0	73	30545	No
6	GOM_NL__2PRFIN20080103_002054_000000342064_00431_30545_5381.N1	03-JAN-2008 00:20:54	Bright	34.000	120	1Del Oph	2.7340	3200.0	68	30545	No
7	GOM_NL__2PRFIN20080103_002344_000000562064_00431_30545_5382.N1	03-JAN-2008 00:23:44	Bright	55.500	104	27Bet Lib	2.6140	13100.	111	30545	No
8	GOM_NL__2PRFIN20080103_003143_000000372064_00431_30545_5383.N1	03-JAN-2008 00:31:43	Dark	37.000	131	Gam Lup	2.8000	26000.	74	30545	No
9	GOM_NL__2PRFIN20080103_003322_000000302064_00431_30545_5384.N1	03-JAN-2008 00:33:22	Dark	30.000	54	5The Cen	2.0550	4500.0	60	30545	No
10	GOM_NL__2PRFIN20080103_003433_000000372064_00431_30545_5385.N1	03-JAN-2008 00:34:33	Dark	37.000	78	Alp Lup	2.3040	28000.	74	30545	No
11	GOM_NL__2PRFIN20080103_003606_000000432064_00431_30545_5386.N1	03-JAN-2008 00:36:06	Dark	42.500	95	Zet Cen	2.5450	26000.	85	30545	No
12	GOM_NL__2PRFIN20080103_003742_000000462064_00432_30546_5423.N1	03-JAN-2008 00:37:42	Dark	45.500	4	Alp1Cen	-0.010000	5800.0	91	30546	No
13	GOM_NL__2PRFIN20080103_004136_000000432064_00432_30546_5424.N1	03-JAN-2008 00:41:36	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	30546	No
14	GOM_NL__2PRFIN20080103_004650_000000392064_00432_30546_5425.N1	03-JAN-2008 00:46:50	Dark	38.500	29	Bet Car	1.6720	10200.	77	30546	No
15	GOM_NL__2PRFIN20080103_004817_000000412064_00432_30546_5426.N1	03-JAN-2008 00:48:17	Dark	40.500	71	lot Car	2.2460	7700.0	81	30546	No
16	GOM_NL__2PRFIN20080103_004951_000000522064_00432_30546_5427.N1	03-JAN-2008 00:49:51	Dark	52.000	41	Eps Car	1.8600	4100.0	104	30546	No
17	GOM_NL__2PRFIN20080103_005400_000000452064_00432_30546_5428.N1	03-JAN-2008 00:54:00	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	30546	No
18	GOM_NL__2PRFIN20080103_005716_000000312064_00432_30546_5429.N1	03-JAN-2008 00:57:16	Dark	31.000	117	Pi Pup	2.7060	3800.0	62	30546	No
19	GOM_NL__2PRFIN20080103_005940_000000392064_00432_30546_5430.N1	03-JAN-2008 00:59:40	Straylight	39.000	108	Alp Col	2.6520	15200.	78	30546	No
20	GOM_NL__2PRFIN20080103_010348_000000432064_00432_30546_5431.N1	03-JAN-2008 01:03:48	Straylight	43.000	47	2Bet CMa	1.9760	28000.	86	30546	No
21	GOM_NL__2PRFIN20080103_010708_000000432064_00432_30546_5432.N1	03-JAN-2008 01:07:08	Straylight	43.000	7	19Bet Ori	0.10000	14000.	86	30546	No
22	GOM_NL__2PRFIN20080103_010858_000000432064_00432_30546_5433.N1	03-JAN-2008 01:08:58	Straylight	42.500	30	46Eps Ori	1.6940	30000.	85	30546	No
23	GOM_NL__2PRFIN20080103_011127_000000512064_00432_30546_5434.N1	03-JAN-2008 01:11:27	Twilight_stray	50.500	14	58Alp Ori	0.87000	3000.0	101	30546	No
24	GOM_NL__2PRFIN20080103_011420_000000492064_00432_30546_5435.N1	03-JAN-2008 01:14:20	Bright	48.500	13	87Alp Tau	0.86700	3800.0	97	30546	No
25	GOM_NL__2PRFIN20080103_011731_000000382064_00432_30546_5436.N1	03-JAN-2008 01:17:31	Bright	37.500	28	12Bet Tau	1.6500	15200.	75	30546	No
26	GOM_NL__2PRFIN20080103_011849_000000382064_00432_30546_5437.N1	03-JAN-2008 01:18:49	Bright	38.000	114	3lot Aur	2.6930	4600.0	76	30546	No
27	GOM_NL__2PRFIN20080103_012226_000000422064_00432_30546_5438.N1	03-JAN-2008 01:22:26	Bright	41.500	6	13Alp Aur	0.080000	3400.0	83	30546	No
28	GOM_NL__2PRFIN20080103_013439_000000362064_00432_30546_5439.N1	03-JAN-2008 01:34:39	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	30546	No
29	GOM_NL__2PRFIN20080103_013904_000000362064_00432_30546_5440.N1	03-JAN-2008 01:39:04	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	30546	No
30	GOM_NL__2PRFIN20080103_014258_000000372064_00432_30546_5441.N1	03-JAN-2008 01:42:58	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	30546	No
31	GOM_NL__2PRFIN20080103_014508_000000332064_00432_30546_5442.N1	03-JAN-2008 01:45:08	Bright	33.000	130	23Bet Dra	2.7990	5800.0	66	30546	No
32	GOM_NL__2PRFIN20080103_015121_000000352064_00432_30546_5443.N1	03-JAN-2008 01:51:21	Bright	35.000	133	40Zet Her	2.8070	6000.0	70	30546	No
33	GOM_NL__2PRFIN20080103_015325_000000562064_00432_30546_5444.N1	03-JAN-2008 01:53:25	Bright	56.000	67	5Alp CrB	2.2210	11000.	112	30546	No
34	GOM_NL__2PRFIN20080103_015913_000000362064_00432_30546_5445.N1	03-JAN-2008 01:59:13	Bright	36.000	102	24Alp Ser	2.6000	4250.0	72	30546	No
35	GOM_NL__2PRFIN20080103_020131_000000342064_00432_30546_5446.N1	03-JAN-2008 02:01:31	Bright	33.500	120	1Del Oph	2.7340	3200.0	67	30546	No
36	GOM_NL__2PRFIN20080103_020420_000000382064_00432_30546_5447.N1	03-JAN-2008 02:04:20	Bright	38.000	104	27Bet Lib	2.6140	13100.	76	30546	No
37	GOM_NL__2PRFIN20080103_021219_000000372064_00432_30546_5448.N1	03-JAN-2008 02:12:19	Dark	37.000	131	Gam Lup	2.8000	26000.	74	30546	No
38	GOM_NL__2PRFIN20080103_021341_000000392064_00432_30546_5449.N1	03-JAN-2008 02:13:41	Dark	38.500	109	Bet Lup	2.6770	26000.	77	30546	No
39	GOM_NL__2PRFIN20080103_021642_000000422064_00432_30546_5450.N1	03-JAN-2008 02:16:42	Dark	41.500	95	Zet Cen	2.5450	26000.	83	30546	No
40	GOM_NL__2PRFIN20080103_021818_000000422064_00433_30547_5438.N1	03-JAN-2008 02:18:18	Dark	41.500	4	Alp1Cen	-0.010000	5800.0	83	30547	No
41	GOM_NL__2PRFIN20080103_022212_000000432064_00433_30547_5439.N1	03-JAN-2008 02:22:12	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	30547	No
42	GOM_NL__2PRFIN20080103_022727_000000382064_00433_30547_5440.N1	03-JAN-2008 02:27:27	Dark	38.000	29	Bet Car	1.6720	10200.	76	30547	No

397	GOM_NL__2PRFIN20080103_225457_000000482064_00445_30559_5611.N1	03-JAN-2008 22:54:57	Straylight	47.500	7	19Bet Ori	0.10000	14000.	95	30559	No
398	GOM_NL__2PRFIN20080103_225646_000000422064_00445_30559_5612.N1	03-JAN-2008 22:56:46	Straylight	41.500	30	46Eps Ori	1.6940	30000.	83	30559	No
399	GOM_NL__2PRFIN20080103_225914_000000492064_00445_30559_5613.N1	03-JAN-2008 22:59:14	Tw_i_and_stray	48.500	14	58Alp Ori	0.87000	3000.0	97	30559	No
400	GOM_NL__2PRFIN20080103_230209_000000472064_00445_30559_5614.N1	03-JAN-2008 23:02:09	Bright	46.500	13	87Alp Tau	0.86700	3800.0	93	30559	No
401	GOM_NL__2PRFIN20080103_230518_000000372064_00445_30559_5615.N1	03-JAN-2008 23:05:18	Bright	37.000	28	12Bet Tau	1.6500	15200.	74	30559	No
402	GOM_NL__2PRFIN20080103_230636_000000362064_00445_30559_5616.N1	03-JAN-2008 23:06:36	Bright	36.000	114	3Iot Aur	2.6930	4600.0	72	30559	No
403	GOM_NL__2PRFIN20080103_231013_000000422064_00445_30559_5617.N1	03-JAN-2008 23:10:13	Bright	42.000	6	13Alp Aur	0.080000	3400.0	84	30559	No
404	GOM_NL__2PRFIN20080103_232226_000000362064_00445_30559_5618.N1	03-JAN-2008 23:22:26	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	30559	No
405	GOM_NL__2PRFIN20080103_232650_000000542064_00445_30559_5619.N1	03-JAN-2008 23:26:50	Bright	54.000	60	7Bet UMi	2.0810	3950.0	108	30559	No
406	GOM_NL__2PRFIN20080103_233046_000000372064_00445_30559_5620.N1	03-JAN-2008 23:30:46	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	30559	No
407	GOM_NL__2PRFIN20080103_233257_000000522064_00445_30559_5621.N1	03-JAN-2008 23:32:57	Bright	52.000	130	23Bet Dra	2.7990	5800.0	104	30559	No
408	GOM_NL__2PRFIN20080103_233910_000000522064_00445_30559_5622.N1	03-JAN-2008 23:39:10	Bright	52.000	133	40Zet Her	2.8070	6000.0	104	30559	No
409	GOM_NL__2PRFIN20080103_234115_000000442064_00445_30559_5623.N1	03-JAN-2008 23:41:15	Bright	43.500	67	5Alp CrB	2.2210	11000.	87	30559	No
410	GOM_NL__2PRFIN20080103_234704_000000552064_00445_30559_5624.N1	03-JAN-2008 23:47:04	Bright	55.000	102	24Alp Ser	2.6000	4250.0	110	30559	No
411	GOM_NL__2PRFIN20080103_234921_000000352064_00445_30559_5625.N1	03-JAN-2008 23:49:21	Bright	34.500	120	1Del Oph	2.7340	3200.0	69	30559	No
412	GOM_NL__2PRFIN20080103_235213_000000572064_00445_30559_5626.N1	03-JAN-2008 23:52:13	Bright	56.500	104	27Bet Lib	2.6140	13100.	113	30559	No
413	GOM_NL__2PRFIN20080103_235544_000000382064_00445_30559_5627.N1	03-JAN-2008 23:55:44	Tw_i_and_stray	38.000	158	6Pi Sco	2.9060	28000.	76	30559	No

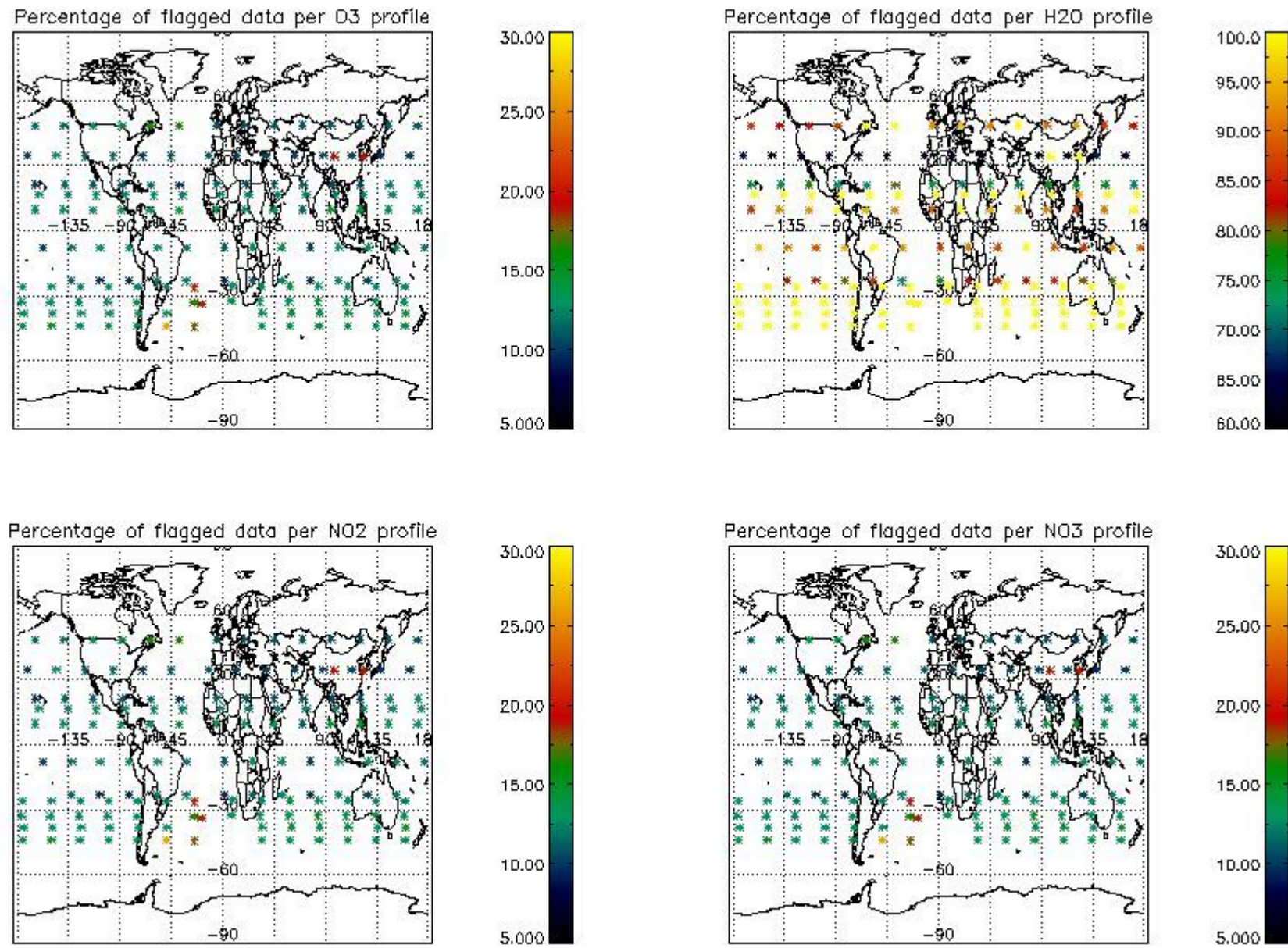
3. Quality information per product

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

3.1 Plot quality information per product (time dependant)



3.2 Plot quality information per product (world map)

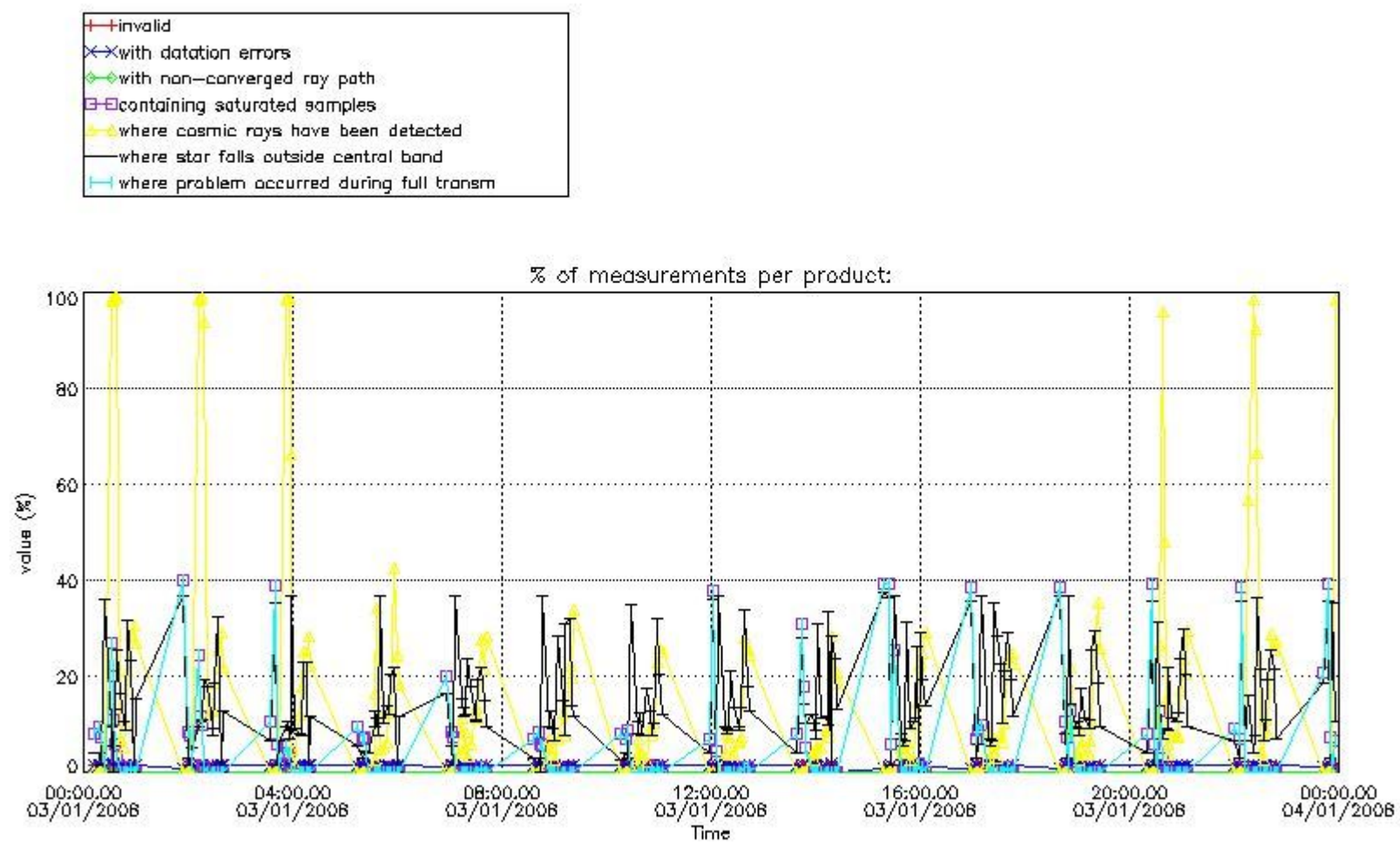


4. Level 1 quality information per product

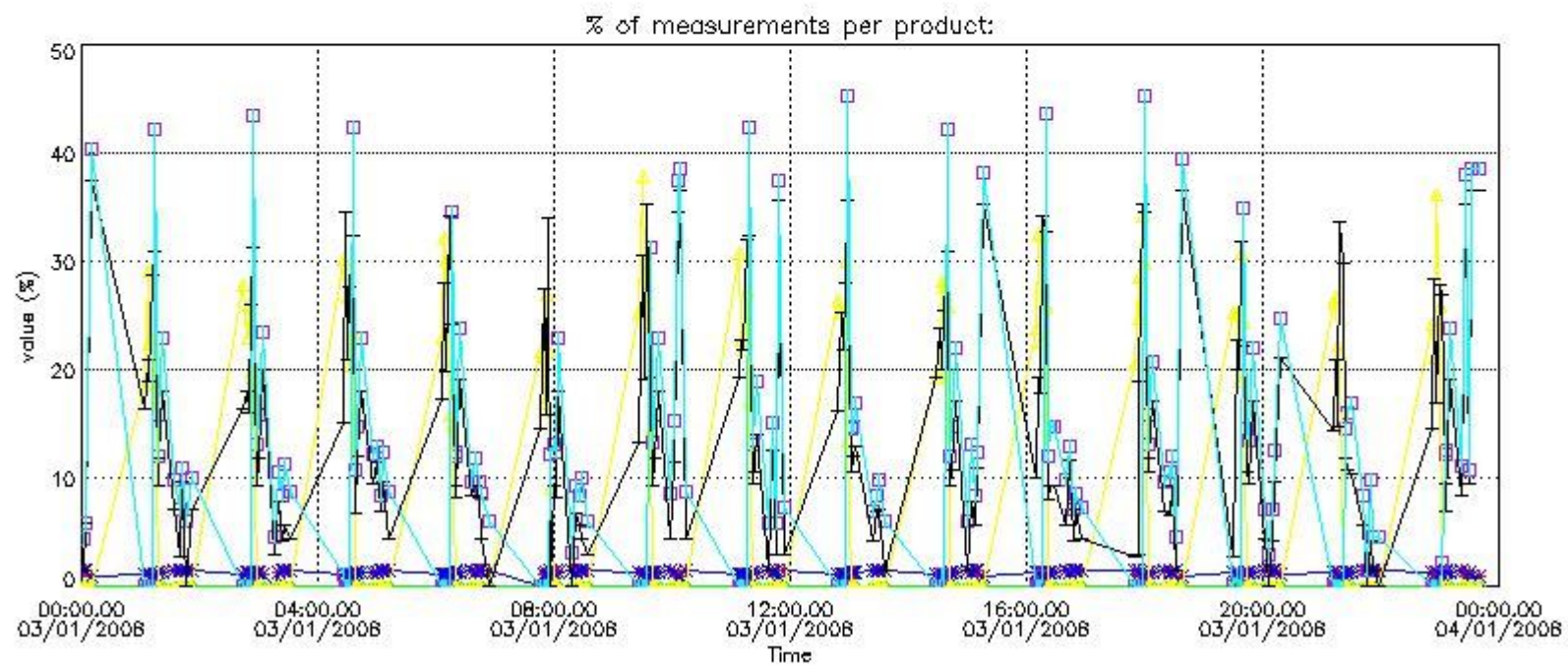
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

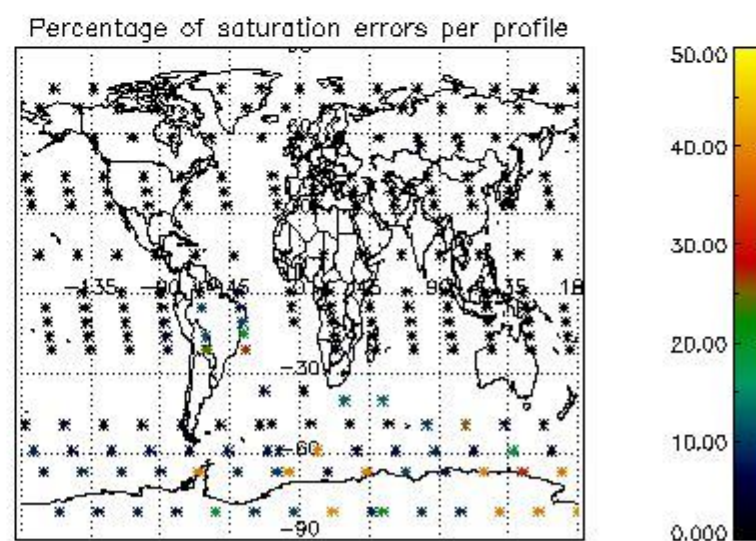
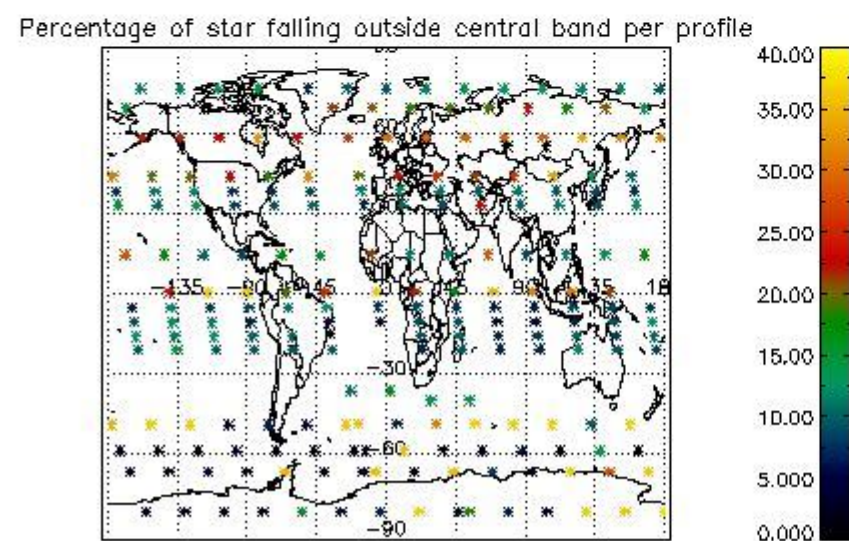
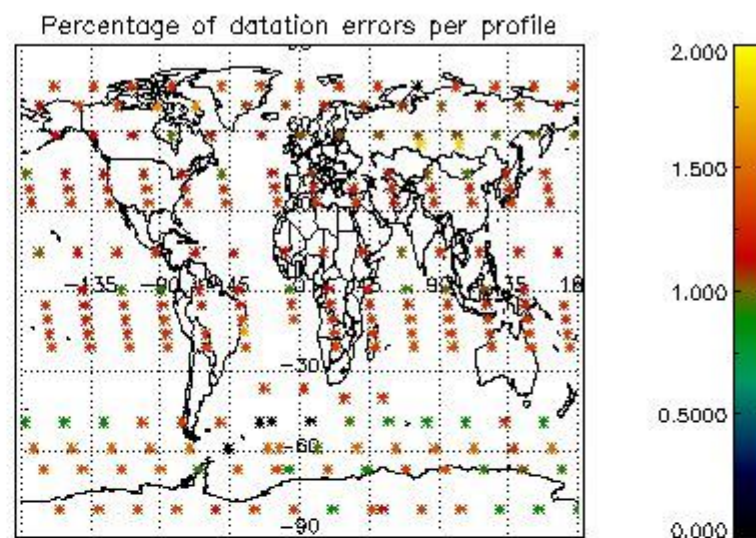
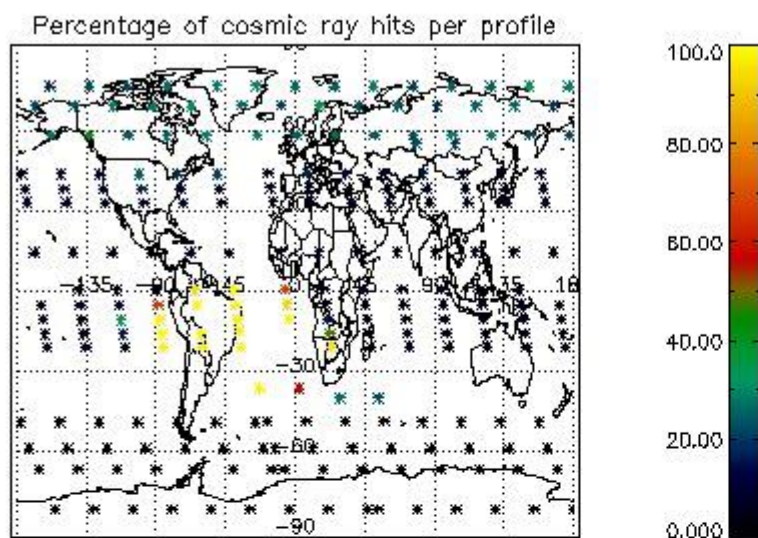


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

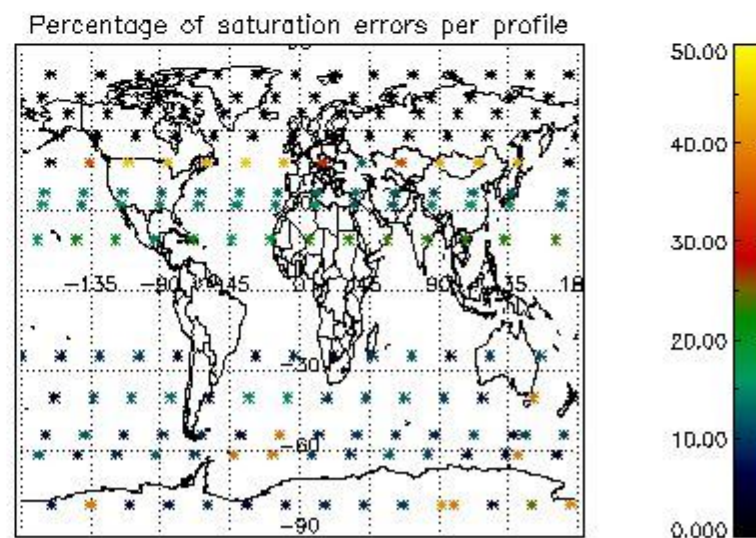
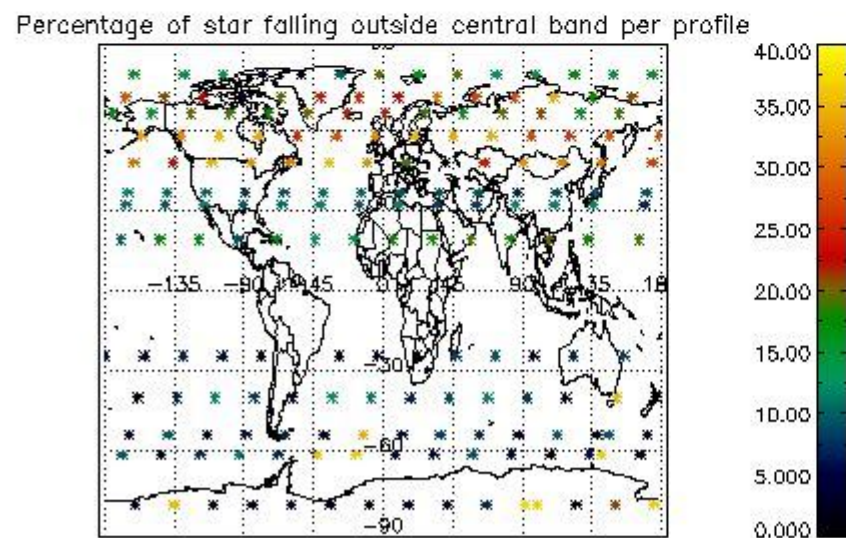
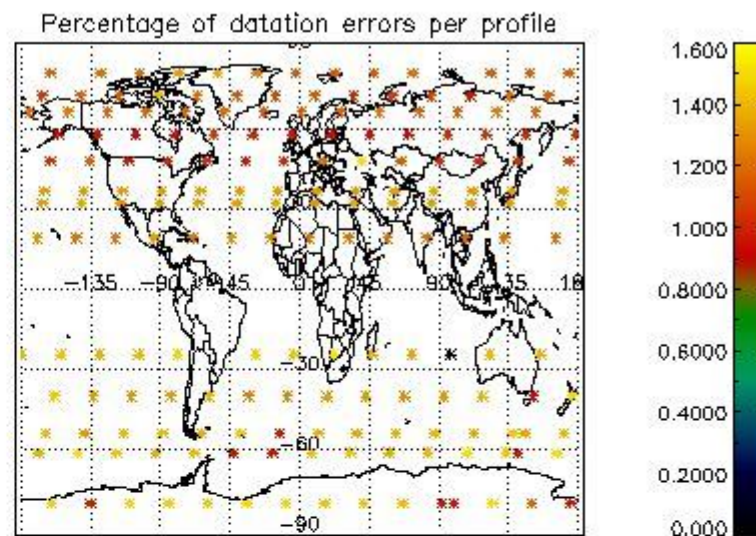
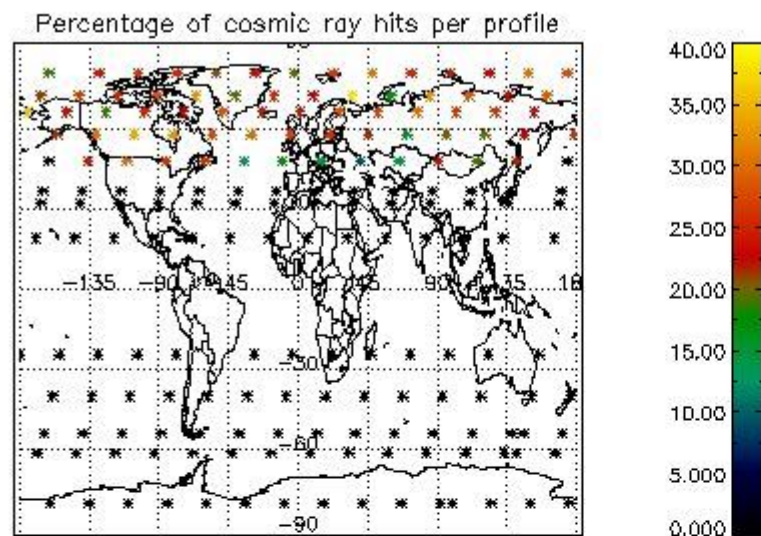


4.2 Plot quality information per product coming from level 1b processing (world map)

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

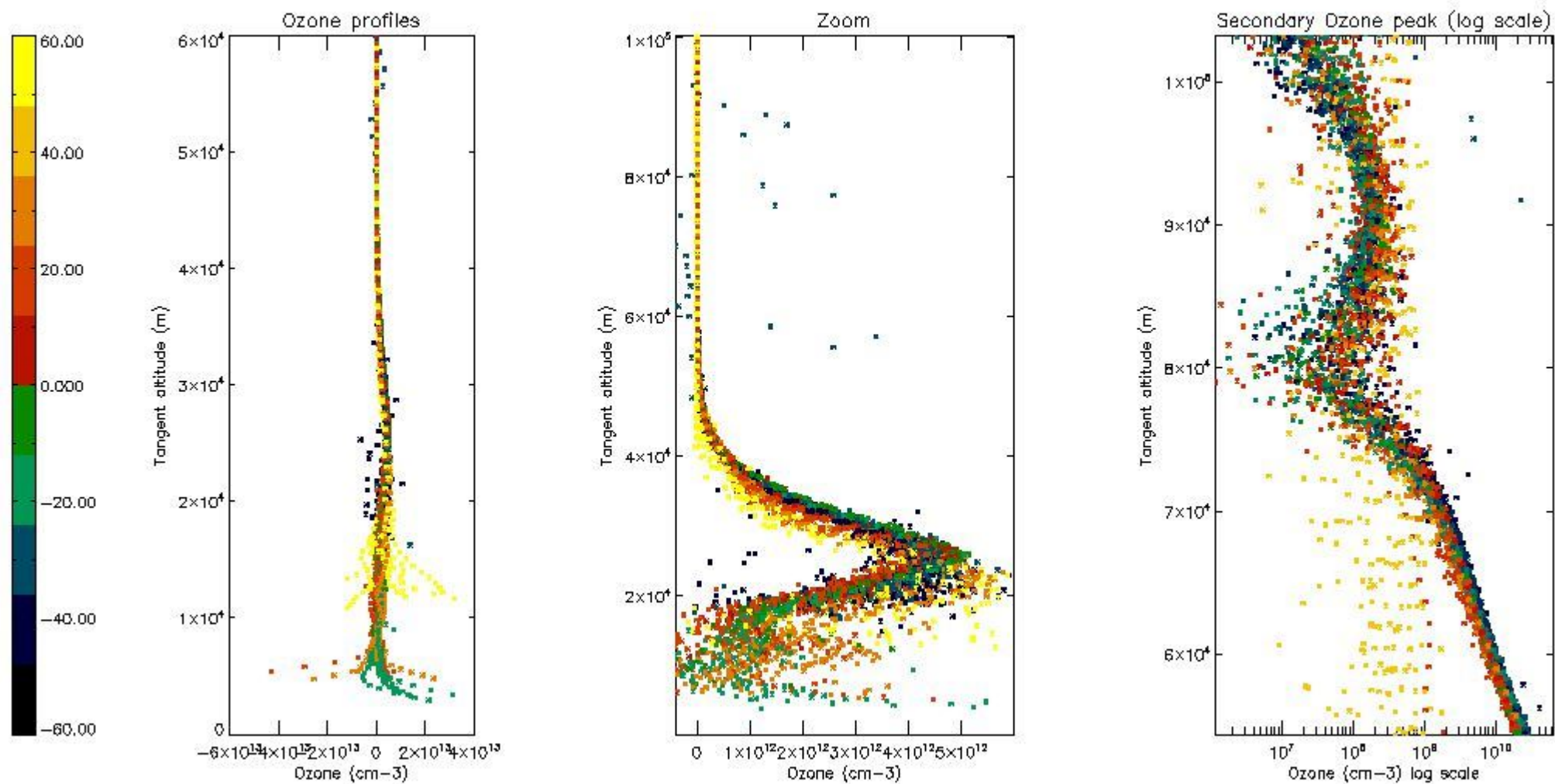
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	38
STD < 20	21

STD < 10	17
STD < 5	11

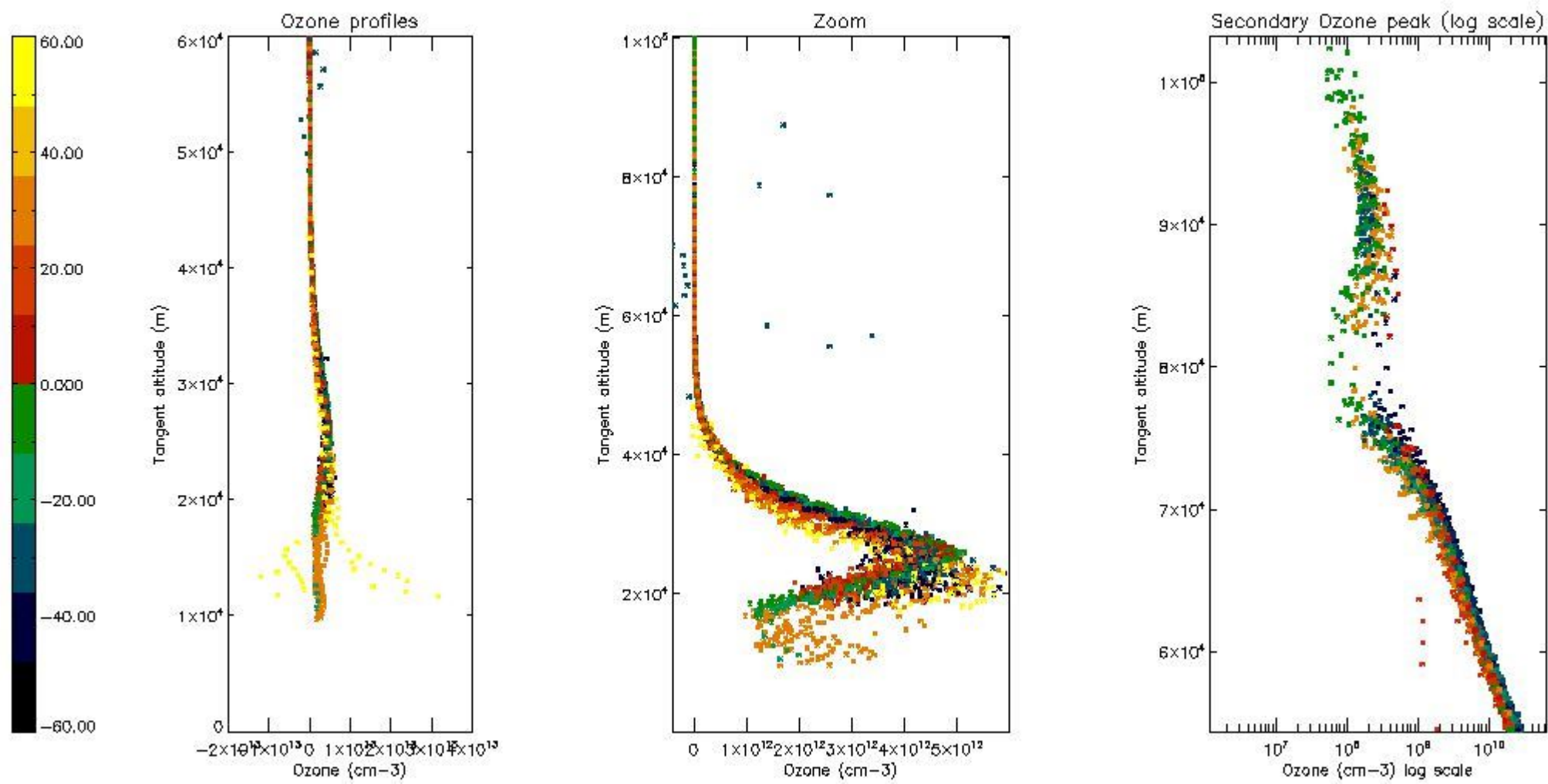
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



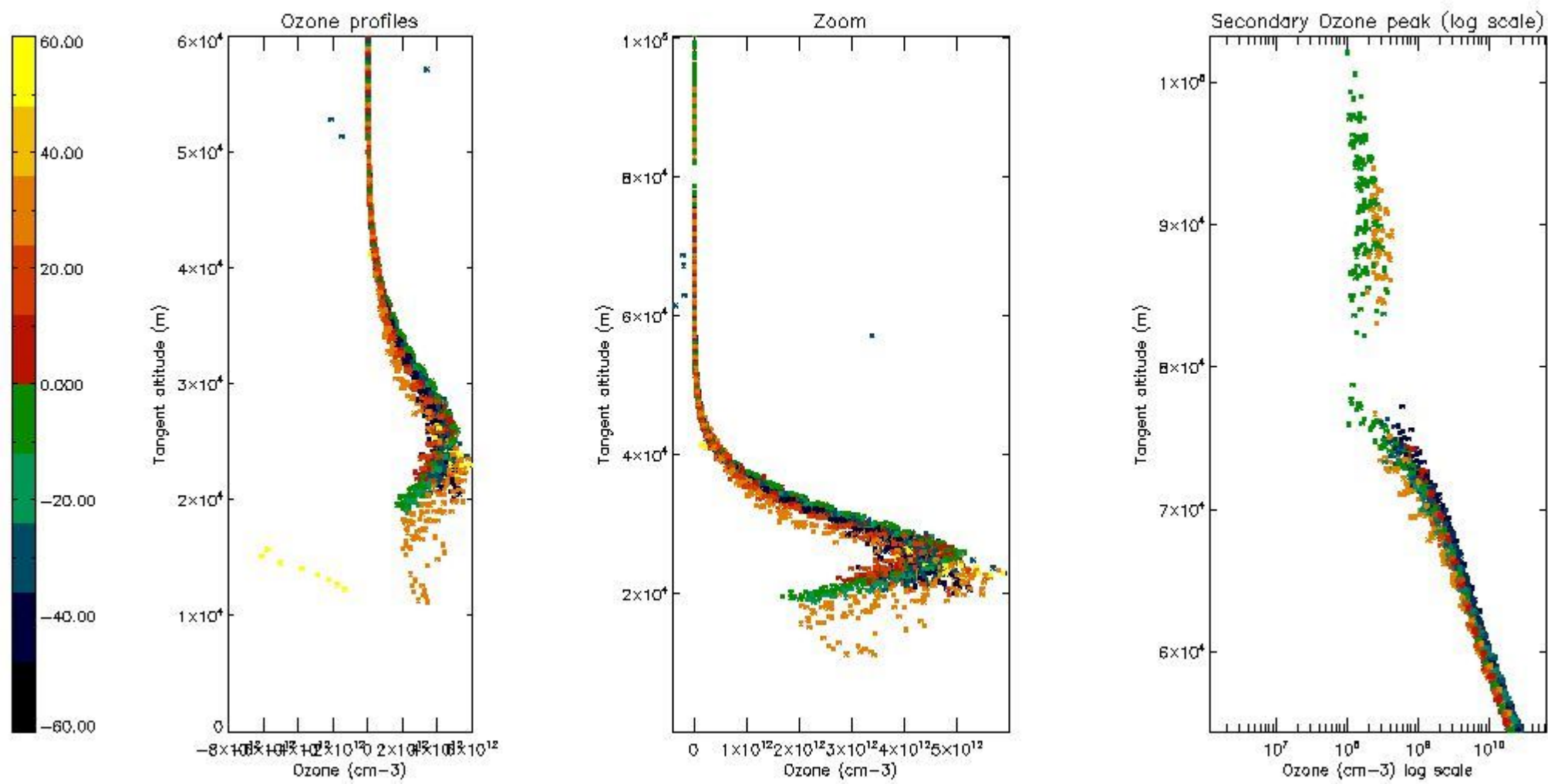
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



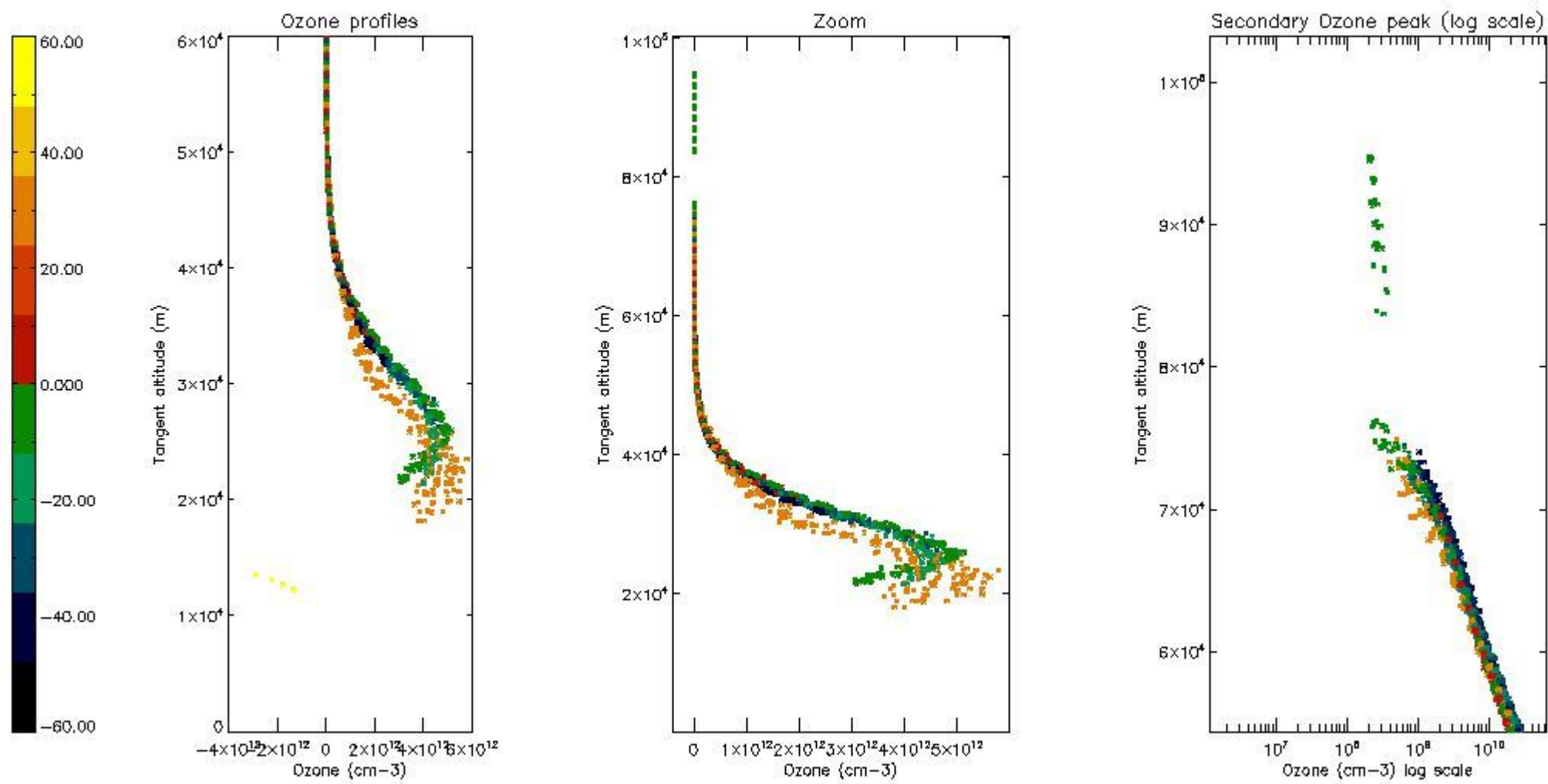
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



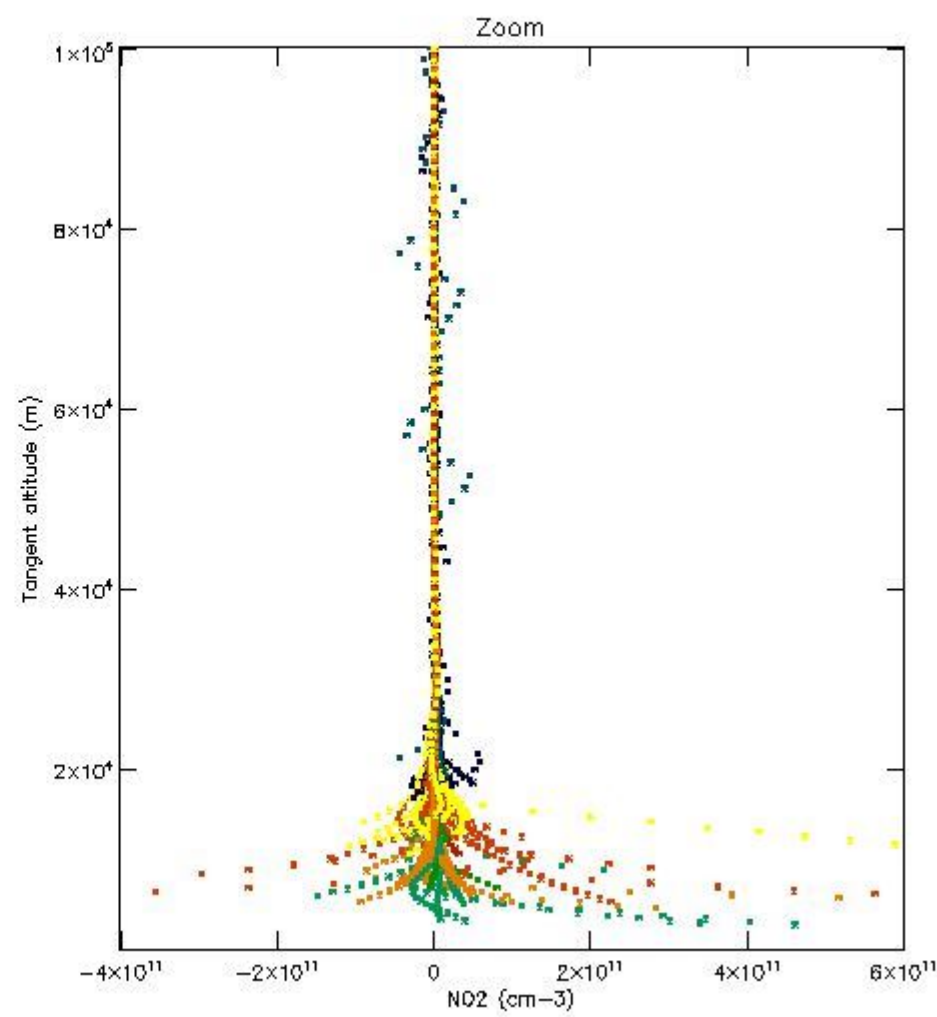
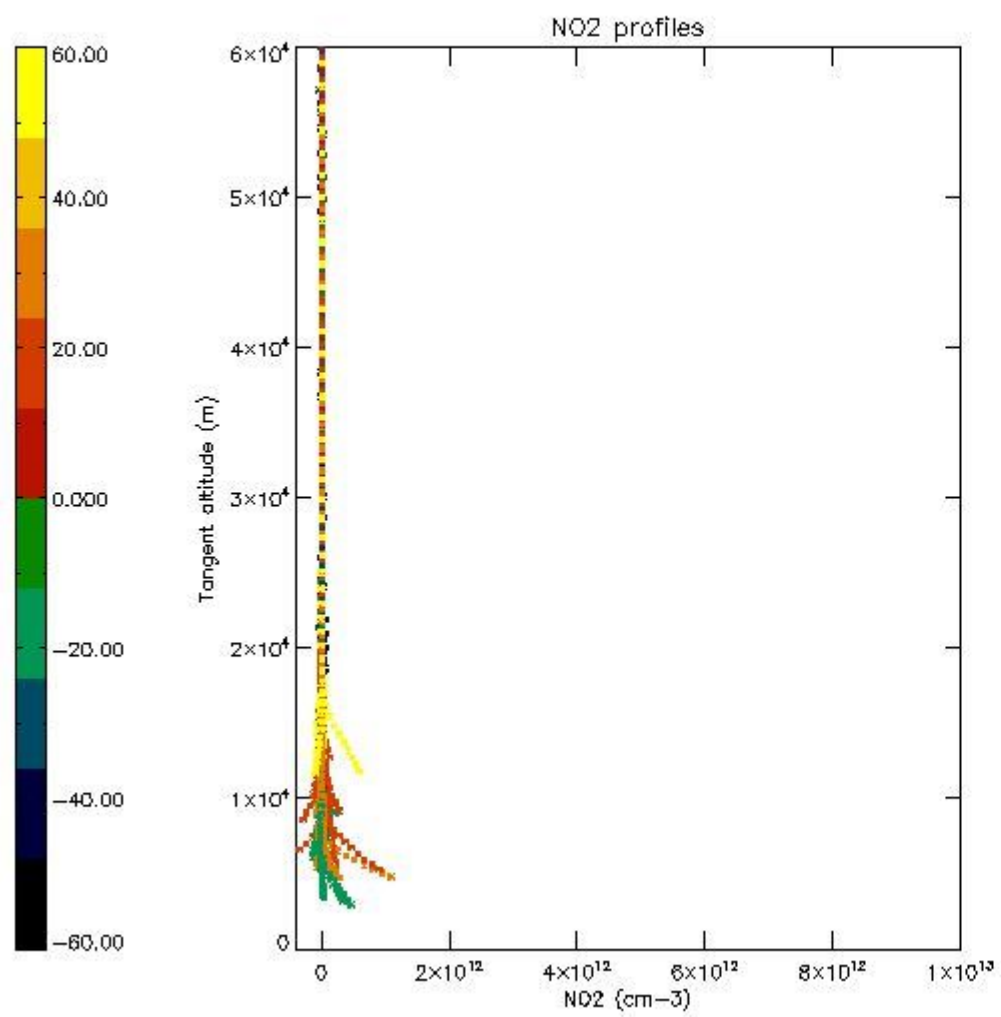
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



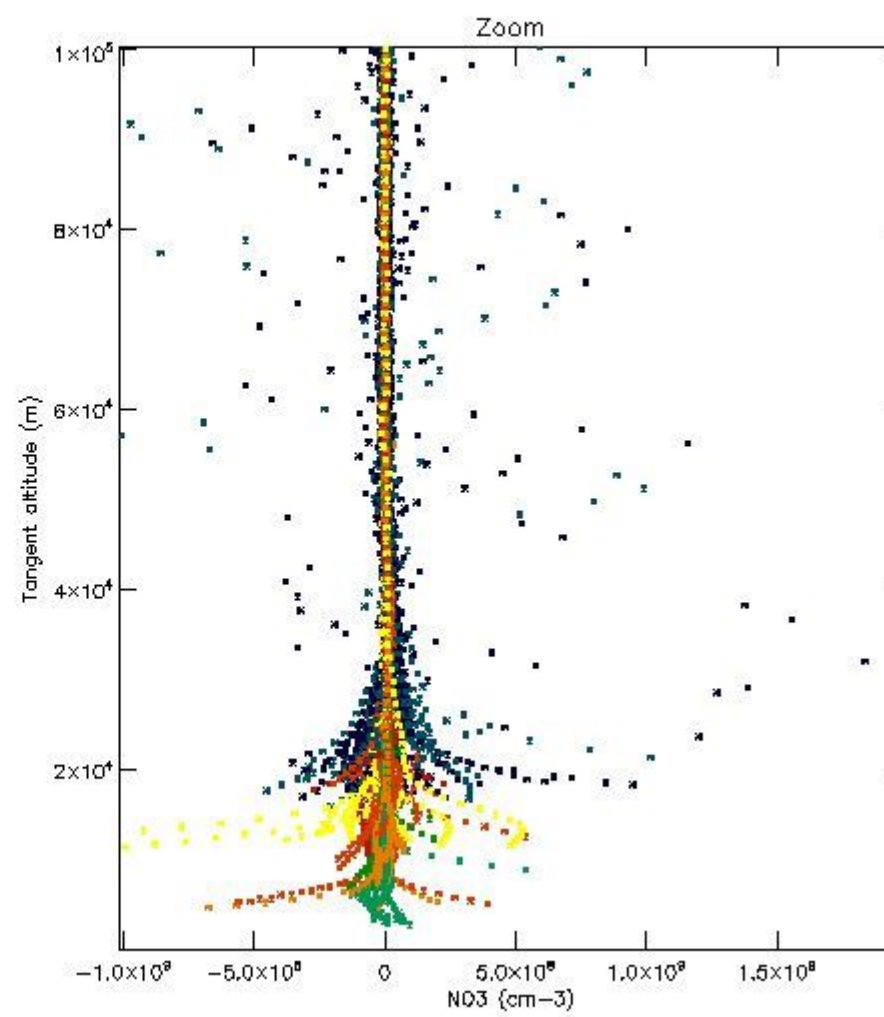
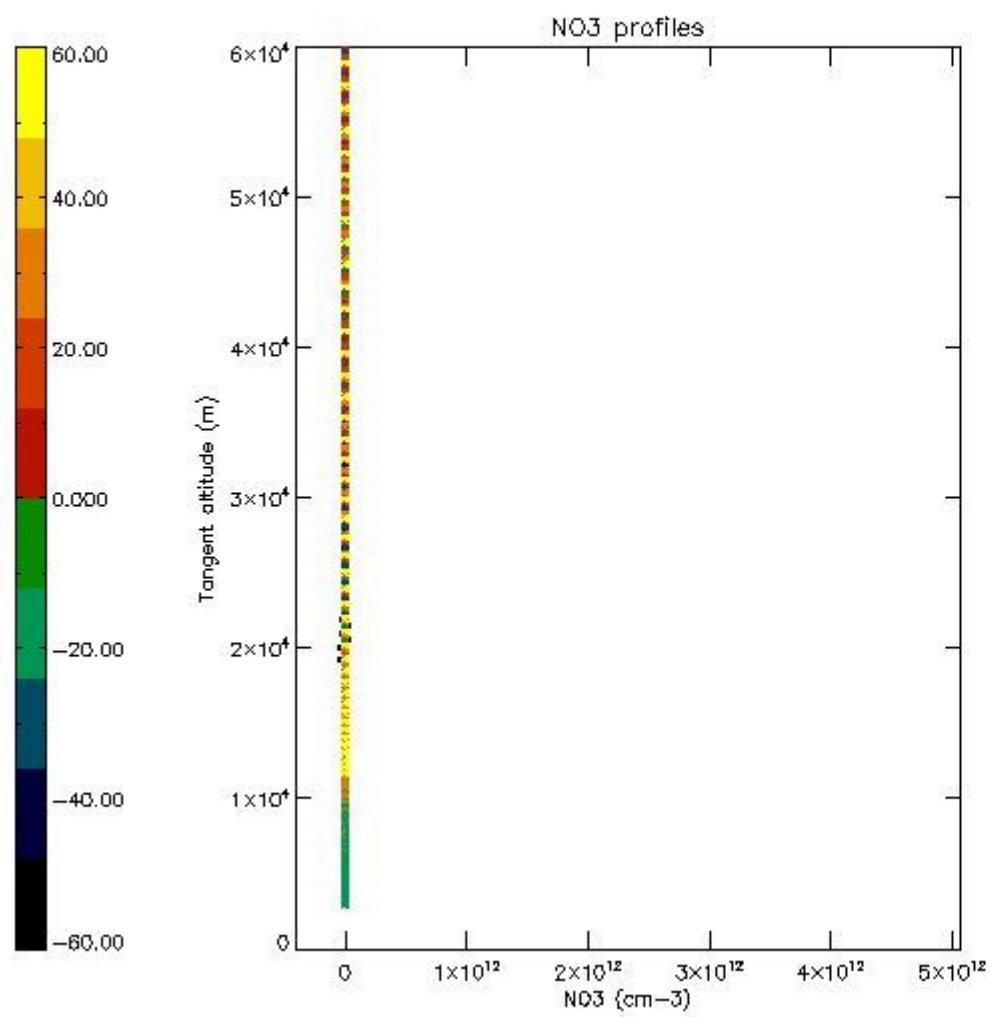
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



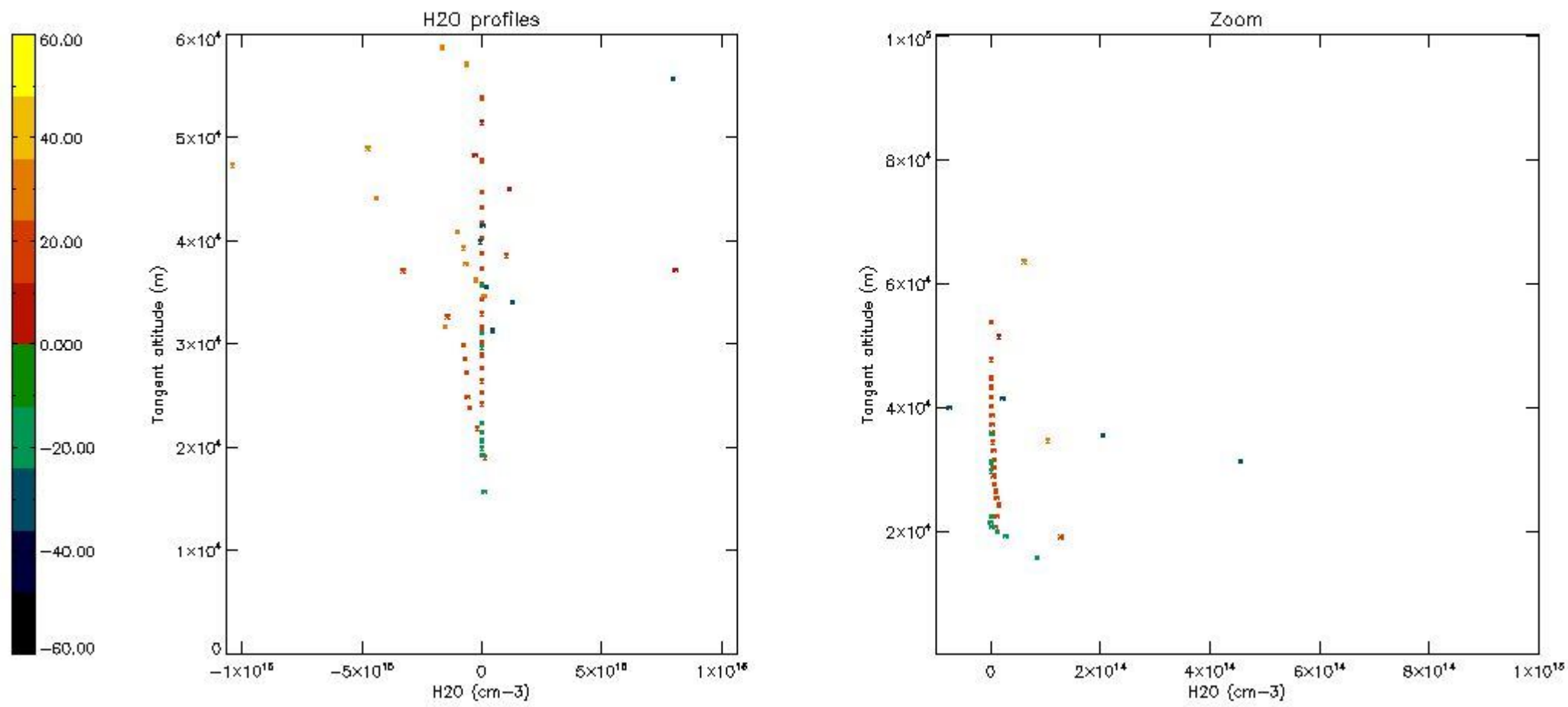
5.7 Plot NO3 profiles for all STD (dark without errors)

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	03-JAN-2008 00:02:22
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	03-JAN-2008 00:02:22
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	03-JAN-2008 00:02:22

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 17:00:11
Data source version	GOMOS/6.01
Start time of products	03-01-2008 (03JAN2008 00:00:00)
Stop time of products	04-01-2008 (04JAN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	413
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

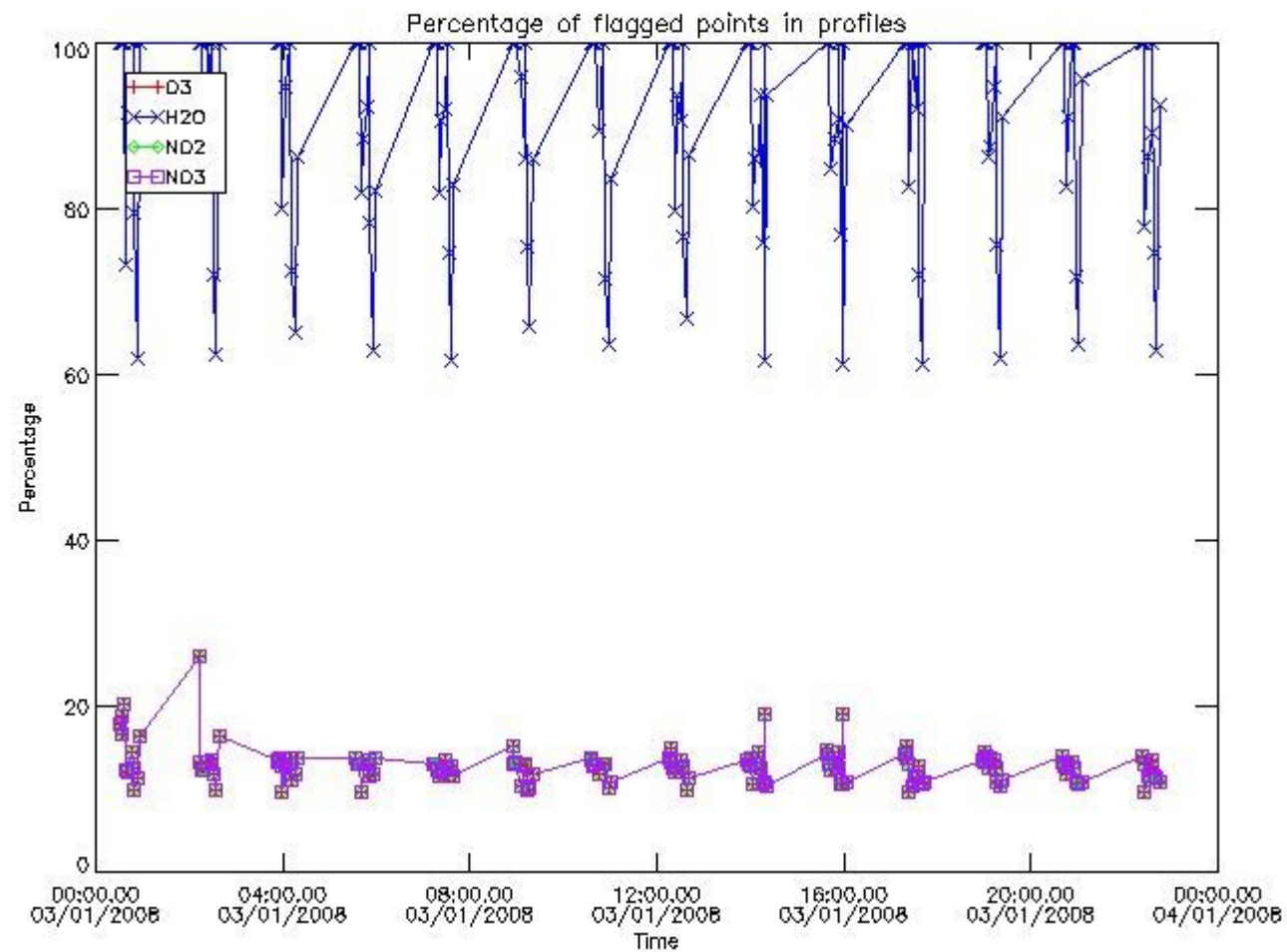
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20080103_000222_000000352064_00431_30545_5376.N1	03-JAN-2008 00:02:22	Bright	34.500	119	14Eta Dra	2.7270	4700.0	69	30545	No
2	GOM_NL__2PRFIN20080103_000432_000000352064_00431_30545_5377.N1	03-JAN-2008 00:04:32	Bright	34.500	130	23Bet Dra	2.7990	5800.0	69	30545	No
3	GOM_NL__2PRFIN20080103_001045_000000522064_00431_30545_5378.N1	03-JAN-2008 00:10:45	Bright	52.000	133	40Zet Her	2.8070	6000.0	104	30545	No
4	GOM_NL__2PRFIN20080103_001249_000000372064_00431_30545_5379.N1	03-JAN-2008 00:12:49	Bright	37.000	67	5Alp CrB	2.2210	11000.	74	30545	No
5	GOM_NL__2PRFIN20080103_001836_000000372064_00431_30545_5380.N1	03-JAN-2008 00:18:36	Bright	36.500	102	24Alp Ser	2.6000	4250.0	73	30545	No
6	GOM_NL__2PRFIN20080103_002054_000000342064_00431_30545_5381.N1	03-JAN-2008 00:20:54	Bright	34.000	120	1Del Oph	2.7340	3200.0	68	30545	No
7	GOM_NL__2PRFIN20080103_002344_000000562064_00431_30545_5382.N1	03-JAN-2008 00:23:44	Bright	55.500	104	27Bet Lib	2.6140	13100.	111	30545	No
8	GOM_NL__2PRFIN20080103_003143_000000372064_00431_30545_5383.N1	03-JAN-2008 00:31:43	Dark	37.000	131	Gam Lup	2.8000	26000.	74	30545	No
9	GOM_NL__2PRFIN20080103_003322_000000302064_00431_30545_5384.N1	03-JAN-2008 00:33:22	Dark	30.000	54	5The Cen	2.0550	4500.0	60	30545	No
10	GOM_NL__2PRFIN20080103_003433_000000372064_00431_30545_5385.N1	03-JAN-2008 00:34:33	Dark	37.000	78	Alp Lup	2.3040	28000.	74	30545	No
11	GOM_NL__2PRFIN20080103_003606_000000432064_00431_30545_5386.N1	03-JAN-2008 00:36:06	Dark	42.500	95	Zet Cen	2.5450	26000.	85	30545	No
12	GOM_NL__2PRFIN20080103_003742_000000462064_00432_30546_5423.N1	03-JAN-2008 00:37:42	Dark	45.500	4	Alp1Cen	-0.010000	5800.0	91	30546	No
13	GOM_NL__2PRFIN20080103_004136_000000432064_00432_30546_5424.N1	03-JAN-2008 00:41:36	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	30546	No
14	GOM_NL__2PRFIN20080103_004650_000000392064_00432_30546_5425.N1	03-JAN-2008 00:46:50	Dark	38.500	29	Bet Car	1.6720	10200.	77	30546	No
15	GOM_NL__2PRFIN20080103_004817_000000412064_00432_30546_5426.N1	03-JAN-2008 00:48:17	Dark	40.500	71	lot Car	2.2460	7700.0	81	30546	No
16	GOM_NL__2PRFIN20080103_004951_000000522064_00432_30546_5427.N1	03-JAN-2008 00:49:51	Dark	52.000	41	Eps Car	1.8600	4100.0	104	30546	No
17	GOM_NL__2PRFIN20080103_005400_000000452064_00432_30546_5428.N1	03-JAN-2008 00:54:00	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	30546	No
18	GOM_NL__2PRFIN20080103_005716_000000312064_00432_30546_5429.N1	03-JAN-2008 00:57:16	Dark	31.000	117	Pi Pup	2.7060	3800.0	62	30546	No
19	GOM_NL__2PRFIN20080103_005940_000000392064_00432_30546_5430.N1	03-JAN-2008 00:59:40	Straylight	39.000	108	Alp Col	2.6520	15200.	78	30546	No
20	GOM_NL__2PRFIN20080103_010348_000000432064_00432_30546_5431.N1	03-JAN-2008 01:03:48	Straylight	43.000	47	2Bet CMa	1.9760	28000.	86	30546	No
21	GOM_NL__2PRFIN20080103_010708_000000432064_00432_30546_5432.N1	03-JAN-2008 01:07:08	Straylight	43.000	7	19Bet Ori	0.10000	14000.	86	30546	No
22	GOM_NL__2PRFIN20080103_010858_000000432064_00432_30546_5433.N1	03-JAN-2008 01:08:58	Straylight	42.500	30	46Eps Ori	1.6940	30000.	85	30546	No
23	GOM_NL__2PRFIN20080103_011127_000000512064_00432_30546_5434.N1	03-JAN-2008 01:11:27	Twilight_and_stray	50.500	14	58Alp Ori	0.87000	3000.0	101	30546	No
24	GOM_NL__2PRFIN20080103_011420_000000492064_00432_30546_5435.N1	03-JAN-2008 01:14:20	Bright	48.500	13	87Alp Tau	0.86700	3800.0	97	30546	No
25	GOM_NL__2PRFIN20080103_011731_000000382064_00432_30546_5436.N1	03-JAN-2008 01:17:31	Bright	37.500	28	12Bet Tau	1.6500	15200.	75	30546	No
26	GOM_NL__2PRFIN20080103_011849_000000382064_00432_30546_5437.N1	03-JAN-2008 01:18:49	Bright	38.000	114	3lot Aur	2.6930	4600.0	76	30546	No
27	GOM_NL__2PRFIN20080103_012226_000000422064_00432_30546_5438.N1	03-JAN-2008 01:22:26	Bright	41.500	6	13Alp Aur	0.080000	3400.0	83	30546	No
28	GOM_NL__2PRFIN20080103_013439_000000362064_00432_30546_5439.N1	03-JAN-2008 01:34:39	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	30546	No
29	GOM_NL__2PRFIN20080103_013904_000000362064_00432_30546_5440.N1	03-JAN-2008 01:39:04	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	30546	No
30	GOM_NL__2PRFIN20080103_014258_000000372064_00432_30546_5441.N1	03-JAN-2008 01:42:58	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	30546	No
31	GOM_NL__2PRFIN20080103_014508_000000332064_00432_30546_5442.N1	03-JAN-2008 01:45:08	Bright	33.000	130	23Bet Dra	2.7990	5800.0	66	30546	No
32	GOM_NL__2PRFIN20080103_015121_000000352064_00432_30546_5443.N1	03-JAN-2008 01:51:21	Bright	35.000	133	40Zet Her	2.8070	6000.0	70	30546	No
33	GOM_NL__2PRFIN20080103_015325_000000562064_00432_30546_5444.N1	03-JAN-2008 01:53:25	Bright	56.000	67	5Alp CrB	2.2210	11000.	112	30546	No
34	GOM_NL__2PRFIN20080103_015913_000000362064_00432_30546_5445.N1	03-JAN-2008 01:59:13	Bright	36.000	102	24Alp Ser	2.6000	4250.0	72	30546	No
35	GOM_NL__2PRFIN20080103_020131_000000342064_00432_30546_5446.N1	03-JAN-2008 02:01:31	Bright	33.500	120	1Del Oph	2.7340	3200.0	67	30546	No
36	GOM_NL__2PRFIN20080103_020420_000000382064_00432_30546_5447.N1	03-JAN-2008 02:04:20	Bright	38.000	104	27Bet Lib	2.6140	13100.	76	30546	No
37	GOM_NL__2PRFIN20080103_021219_000000372064_00432_30546_5448.N1	03-JAN-2008 02:12:19	Dark	37.000	131	Gam Lup	2.8000	26000.	74	30546	No
38	GOM_NL__2PRFIN20080103_021341_000000392064_00432_30546_5449.N1	03-JAN-2008 02:13:41	Dark	38.500	109	Bet Lup	2.6770	26000.	77	30546	No
39	GOM_NL__2PRFIN20080103_021642_000000422064_00432_30546_5450.N1	03-JAN-2008 02:16:42	Dark	41.500	95	Zet Cen	2.5450	26000.	83	30546	No
40	GOM_NL__2PRFIN20080103_021818_000000422064_00433_30547_5438.N1	03-JAN-2008 02:18:18	Dark	41.500	4	Alp1Cen	-0.010000	5800.0	83	30547	No
41	GOM_NL__2PRFIN20080103_022212_000000432064_00433_30547_5439.N1	03-JAN-2008 02:22:12	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	30547	No
42	GOM_NL__2PRFIN20080103_022727_000000382064_00433_30547_5440.N1	03-JAN-2008 02:27:27	Dark	38.000	29	Bet Car	1.6720	10200.	76	30547	No

397	GOM_NL__2PRFIN20080103_225457_000000482064_00445_30559_5611.N1	03-JAN-2008 22:54:57	Straylight	47.500	7	19Bet Ori	0.10000	14000.	95	30559	No
398	GOM_NL__2PRFIN20080103_225646_000000422064_00445_30559_5612.N1	03-JAN-2008 22:56:46	Straylight	41.500	30	46Eps Ori	1.6940	30000.	83	30559	No
399	GOM_NL__2PRFIN20080103_225914_000000492064_00445_30559_5613.N1	03-JAN-2008 22:59:14	Tw_i_and_stray	48.500	14	58Alp Ori	0.87000	3000.0	97	30559	No
400	GOM_NL__2PRFIN20080103_230209_000000472064_00445_30559_5614.N1	03-JAN-2008 23:02:09	Bright	46.500	13	87Alp Tau	0.86700	3800.0	93	30559	No
401	GOM_NL__2PRFIN20080103_230518_000000372064_00445_30559_5615.N1	03-JAN-2008 23:05:18	Bright	37.000	28	12Bet Tau	1.6500	15200.	74	30559	No
402	GOM_NL__2PRFIN20080103_230636_000000362064_00445_30559_5616.N1	03-JAN-2008 23:06:36	Bright	36.000	114	3Iot Aur	2.6930	4600.0	72	30559	No
403	GOM_NL__2PRFIN20080103_231013_000000422064_00445_30559_5617.N1	03-JAN-2008 23:10:13	Bright	42.000	6	13Alp Aur	0.080000	3400.0	84	30559	No
404	GOM_NL__2PRFIN20080103_232226_000000362064_00445_30559_5618.N1	03-JAN-2008 23:22:26	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	30559	No
405	GOM_NL__2PRFIN20080103_232650_000000542064_00445_30559_5619.N1	03-JAN-2008 23:26:50	Bright	54.000	60	7Bet UMi	2.0810	3950.0	108	30559	No
406	GOM_NL__2PRFIN20080103_233046_000000372064_00445_30559_5620.N1	03-JAN-2008 23:30:46	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	30559	No
407	GOM_NL__2PRFIN20080103_233257_000000522064_00445_30559_5621.N1	03-JAN-2008 23:32:57	Bright	52.000	130	23Bet Dra	2.7990	5800.0	104	30559	No
408	GOM_NL__2PRFIN20080103_233910_000000522064_00445_30559_5622.N1	03-JAN-2008 23:39:10	Bright	52.000	133	40Zet Her	2.8070	6000.0	104	30559	No
409	GOM_NL__2PRFIN20080103_234115_000000442064_00445_30559_5623.N1	03-JAN-2008 23:41:15	Bright	43.500	67	5Alp CrB	2.2210	11000.	87	30559	No
410	GOM_NL__2PRFIN20080103_234704_000000552064_00445_30559_5624.N1	03-JAN-2008 23:47:04	Bright	55.000	102	24Alp Ser	2.6000	4250.0	110	30559	No
411	GOM_NL__2PRFIN20080103_234921_000000352064_00445_30559_5625.N1	03-JAN-2008 23:49:21	Bright	34.500	120	1Del Oph	2.7340	3200.0	69	30559	No
412	GOM_NL__2PRFIN20080103_235213_000000572064_00445_30559_5626.N1	03-JAN-2008 23:52:13	Bright	56.500	104	27Bet Lib	2.6140	13100.	113	30559	No
413	GOM_NL__2PRFIN20080103_235544_000000382064_00445_30559_5627.N1	03-JAN-2008 23:55:44	Tw_i_and_stray	38.000	158	6Pi Sco	2.9060	28000.	76	30559	No

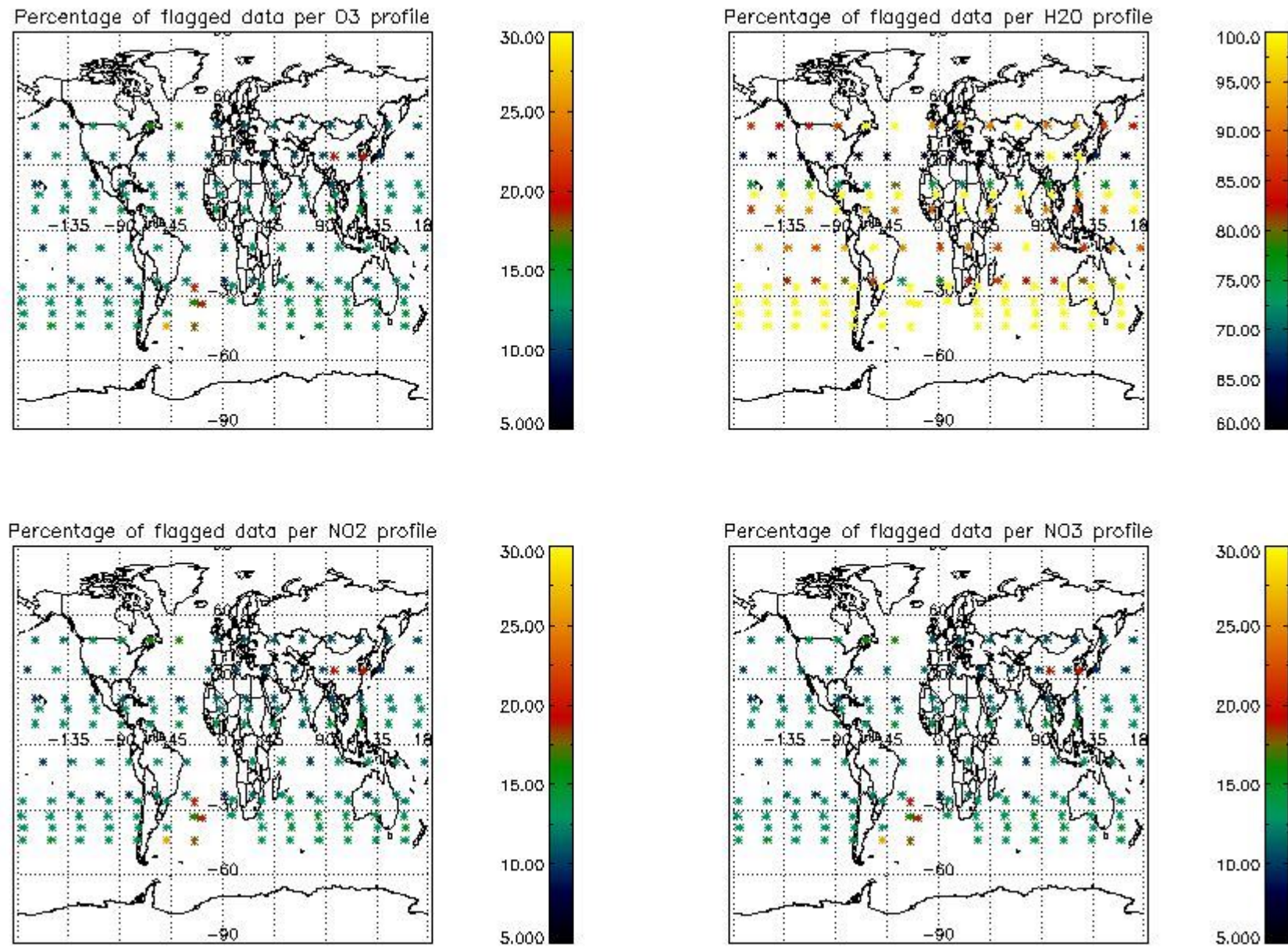
3. Quality information per product

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

3.1 Plot quality information per product (time dependant)



3.2 Plot quality information per product (world map)

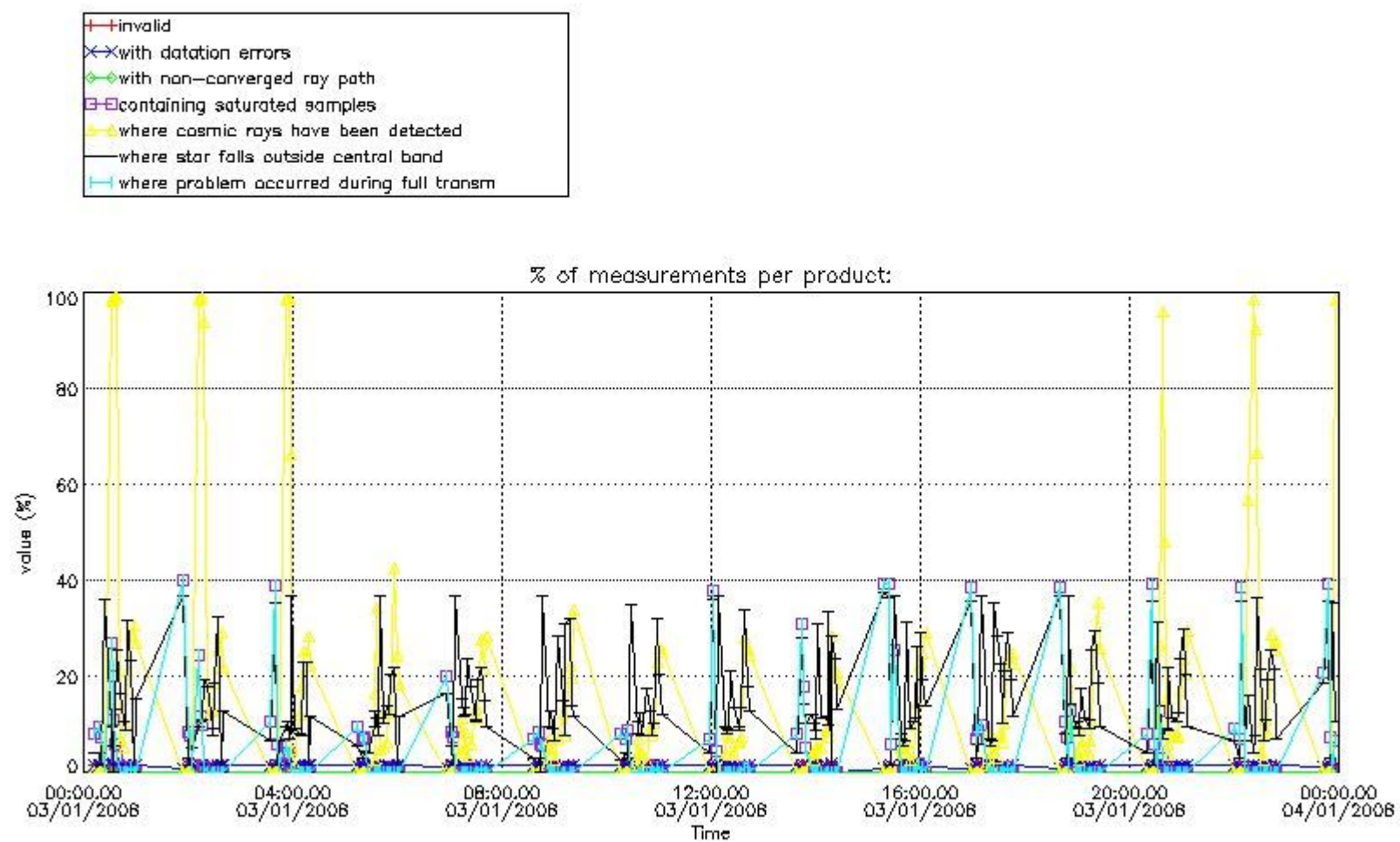


4. Level 1 quality information per product

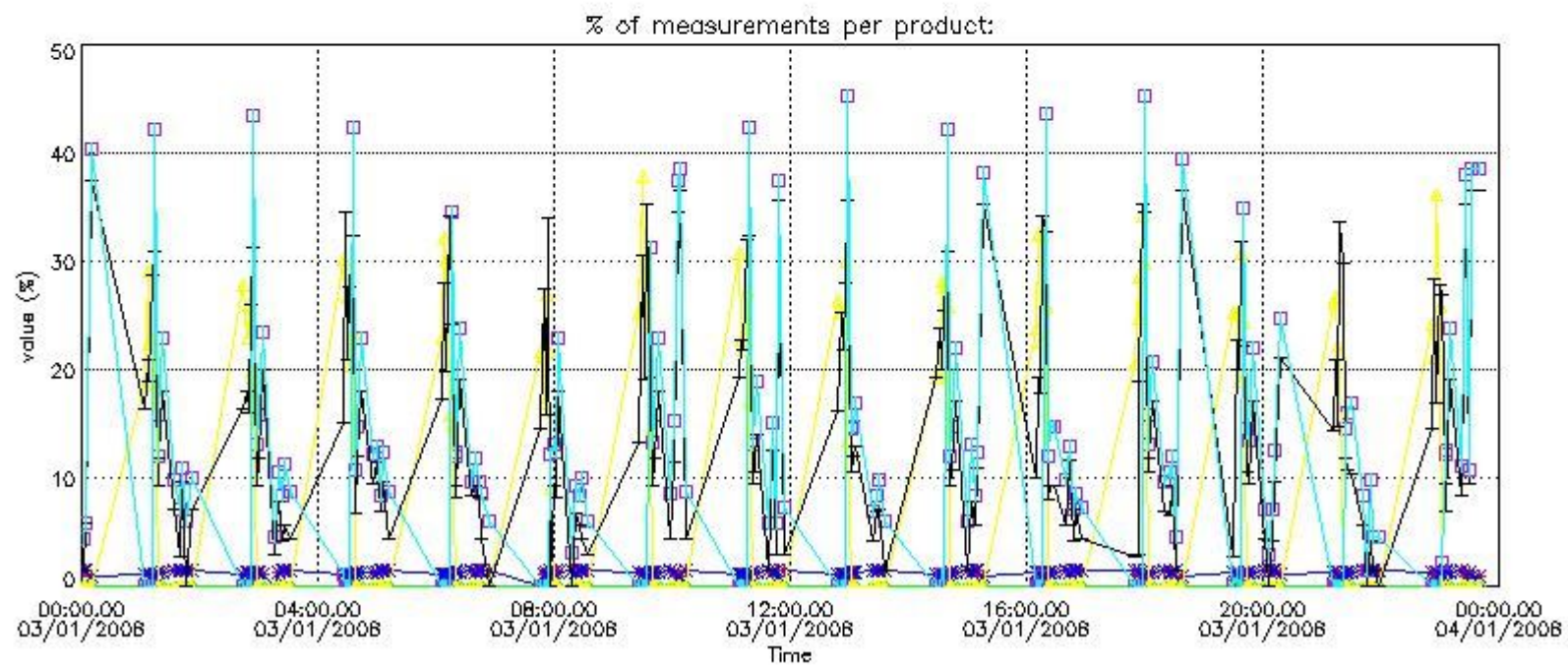
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

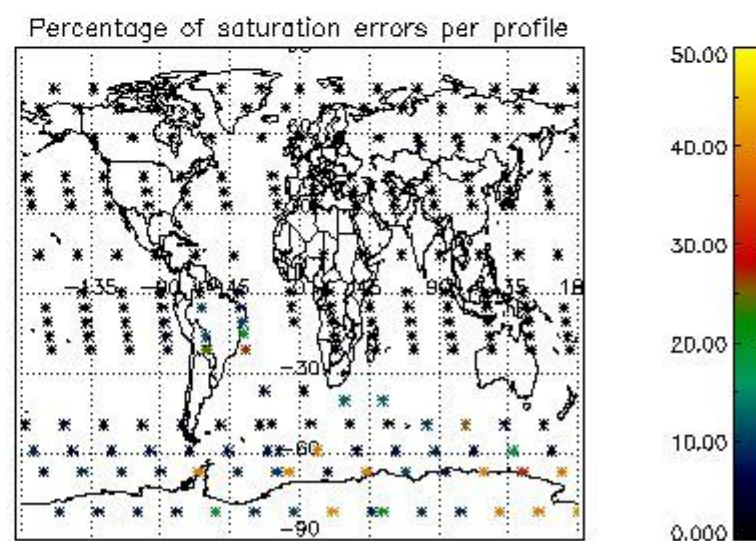
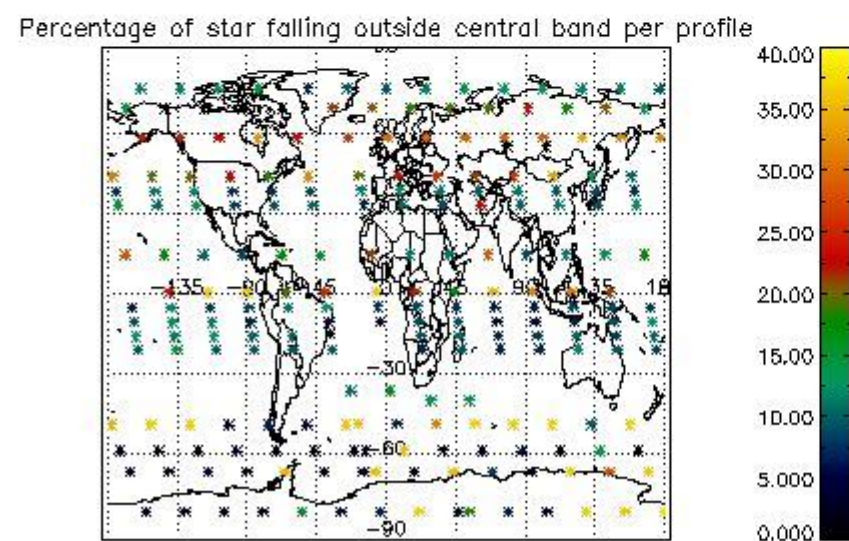
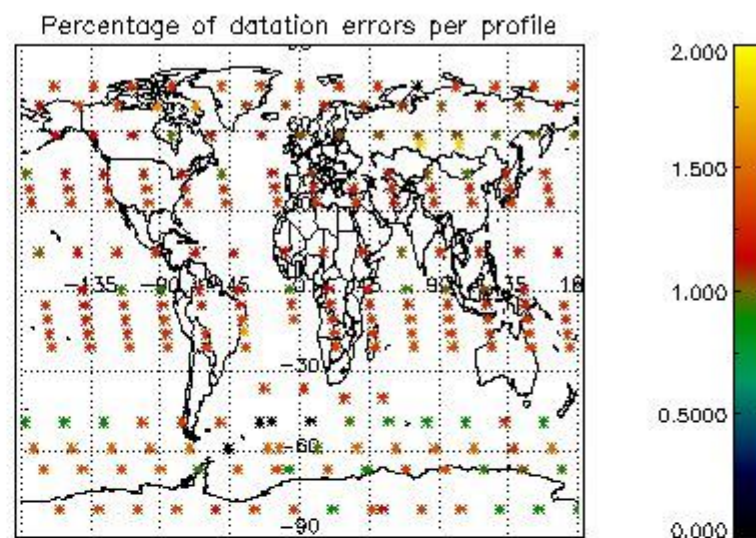
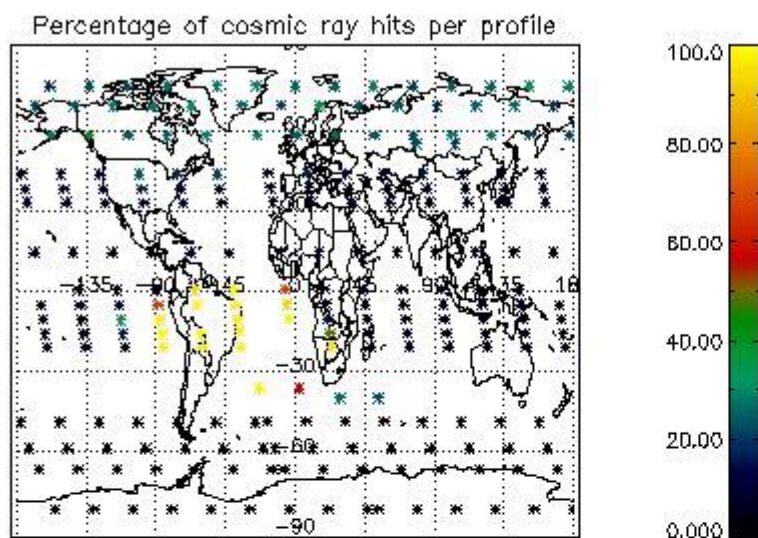


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

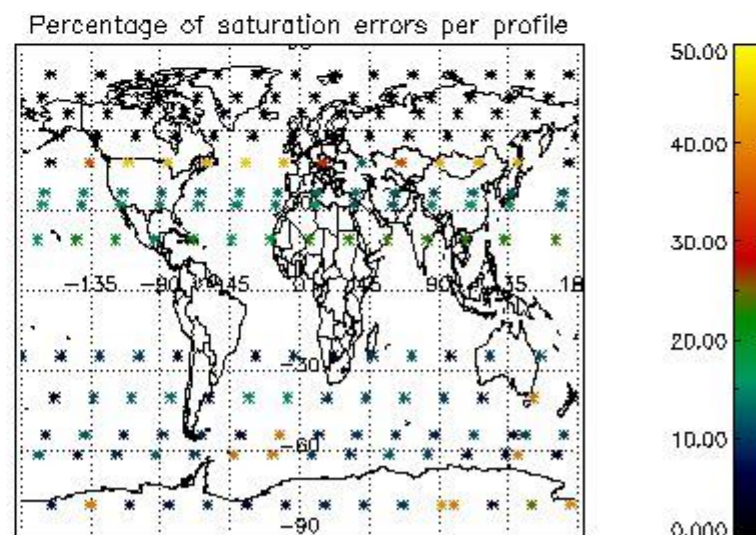
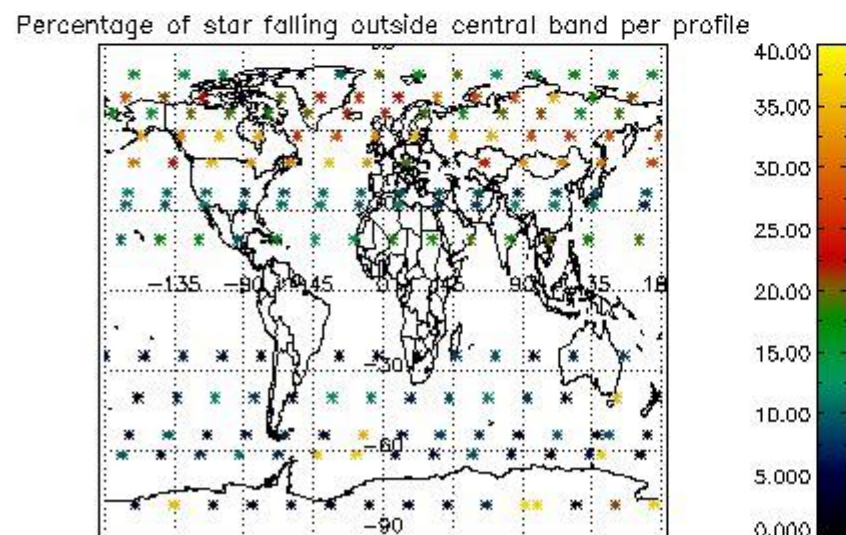
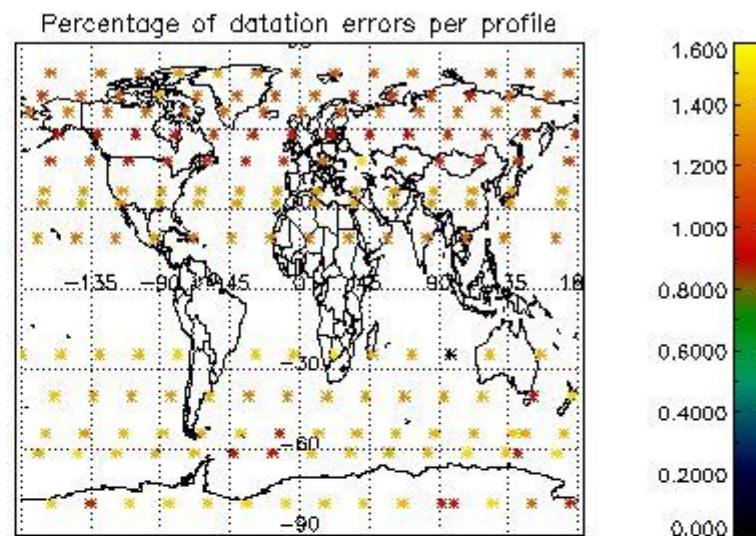
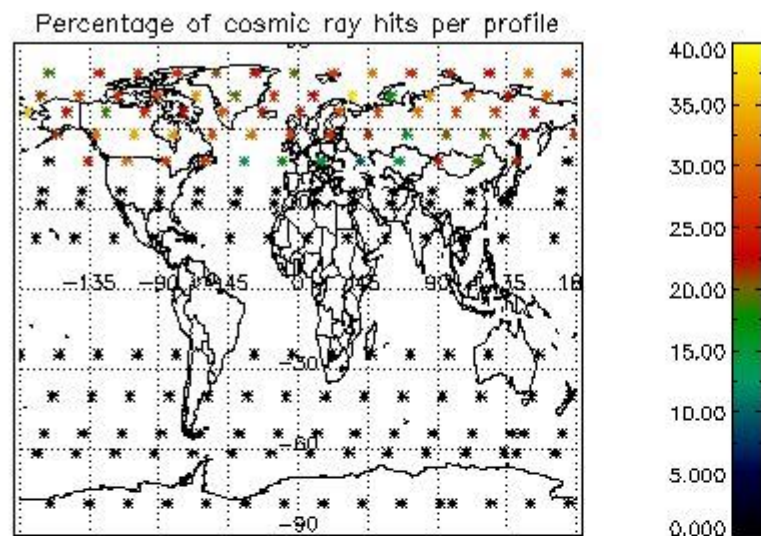


4.2 Plot quality information per product coming from level 1b processing (world map)

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

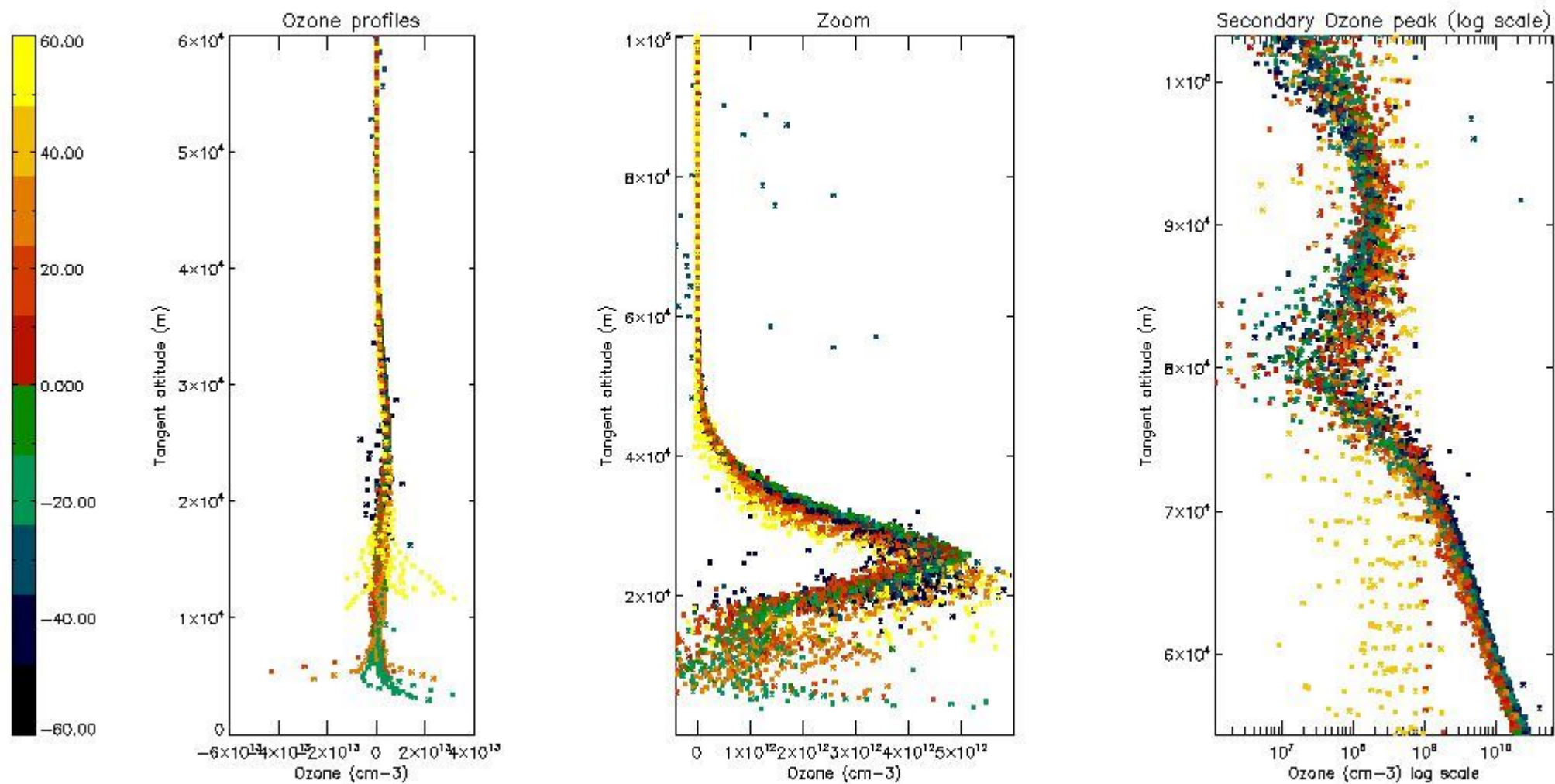
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	38
STD < 20	21

STD < 10	17
STD < 5	11

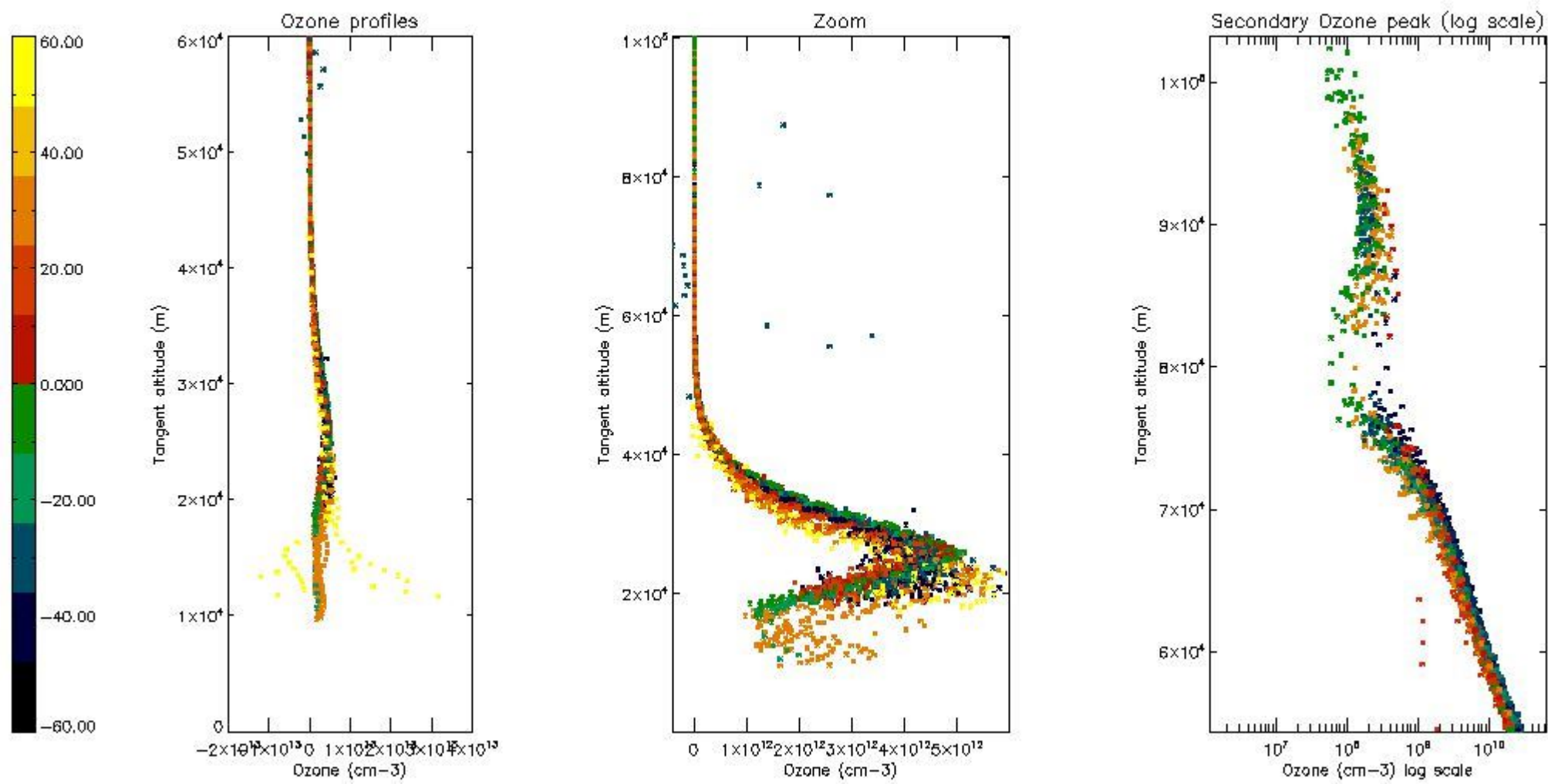
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



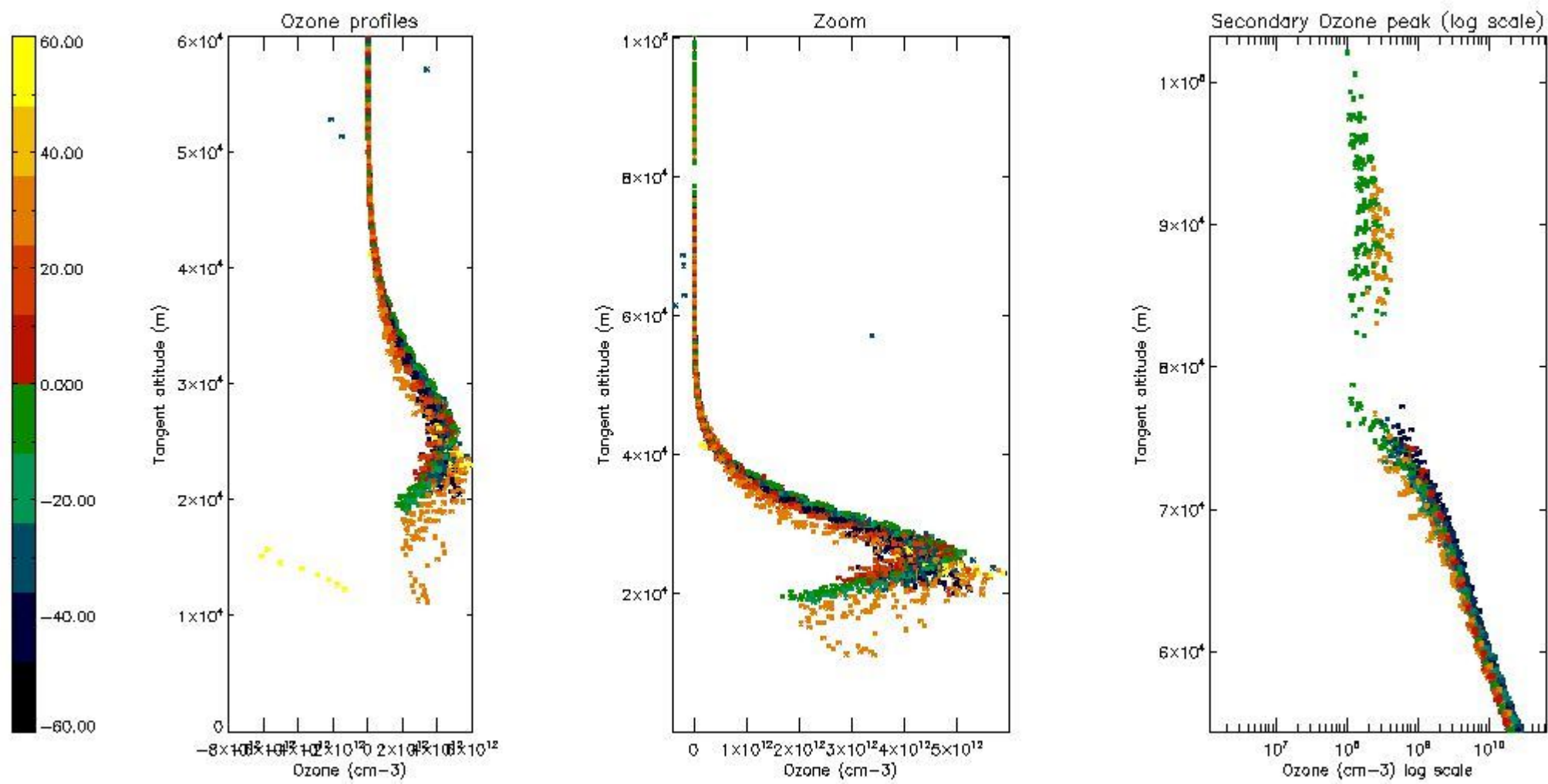
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



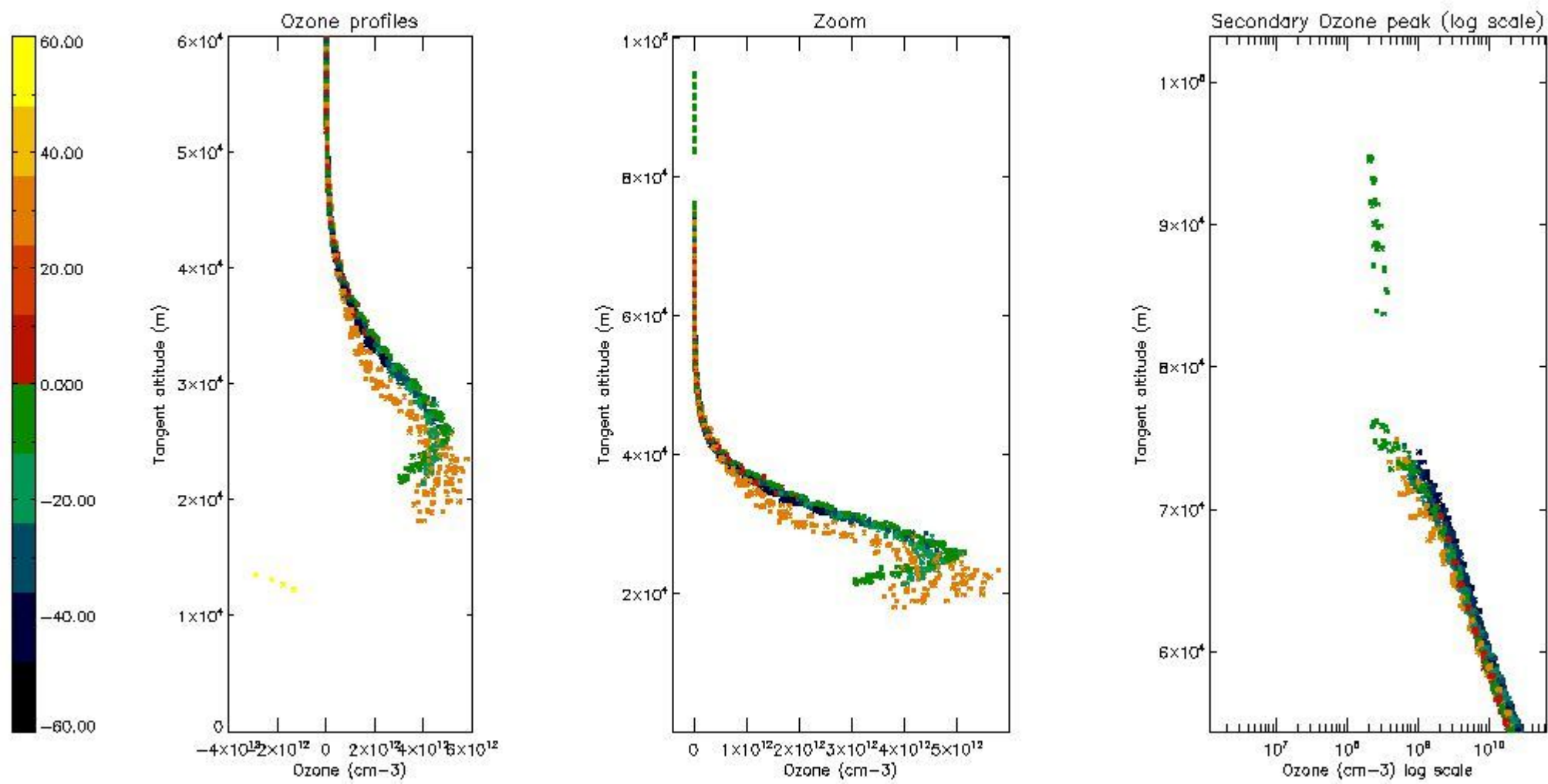
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



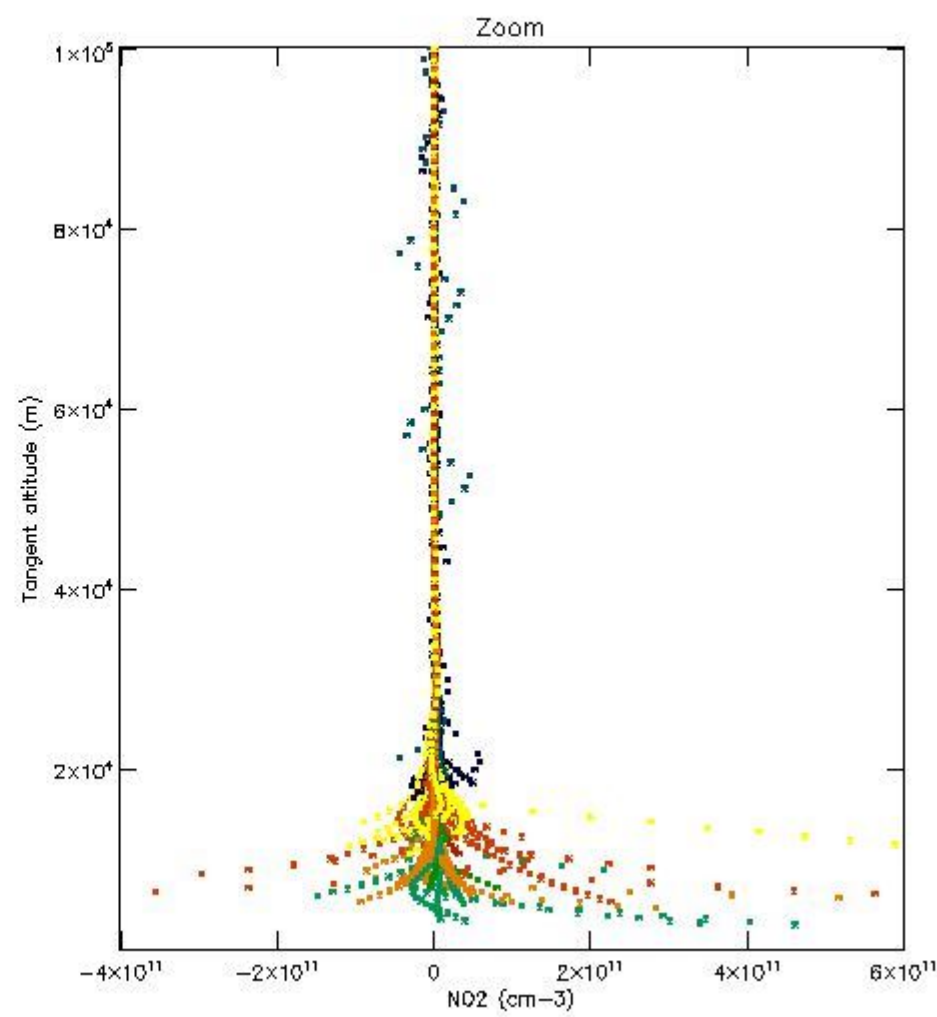
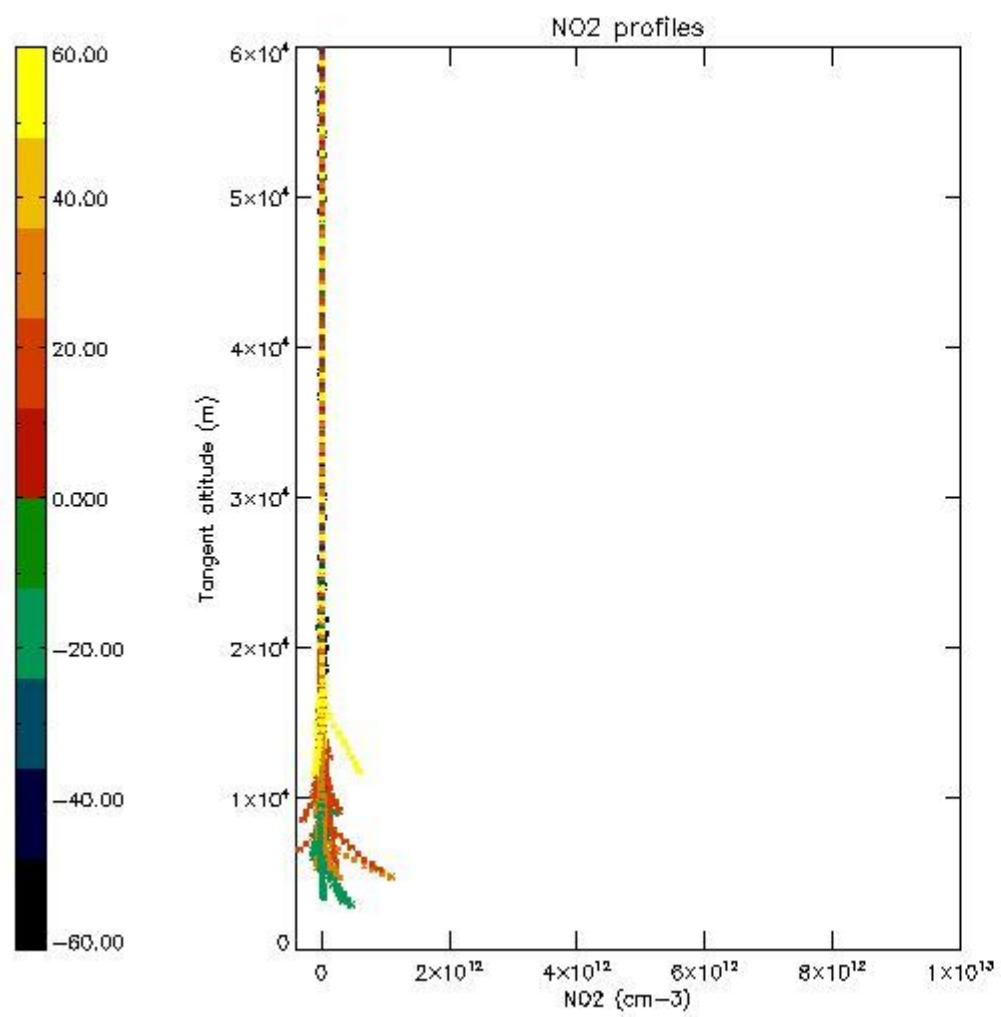
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



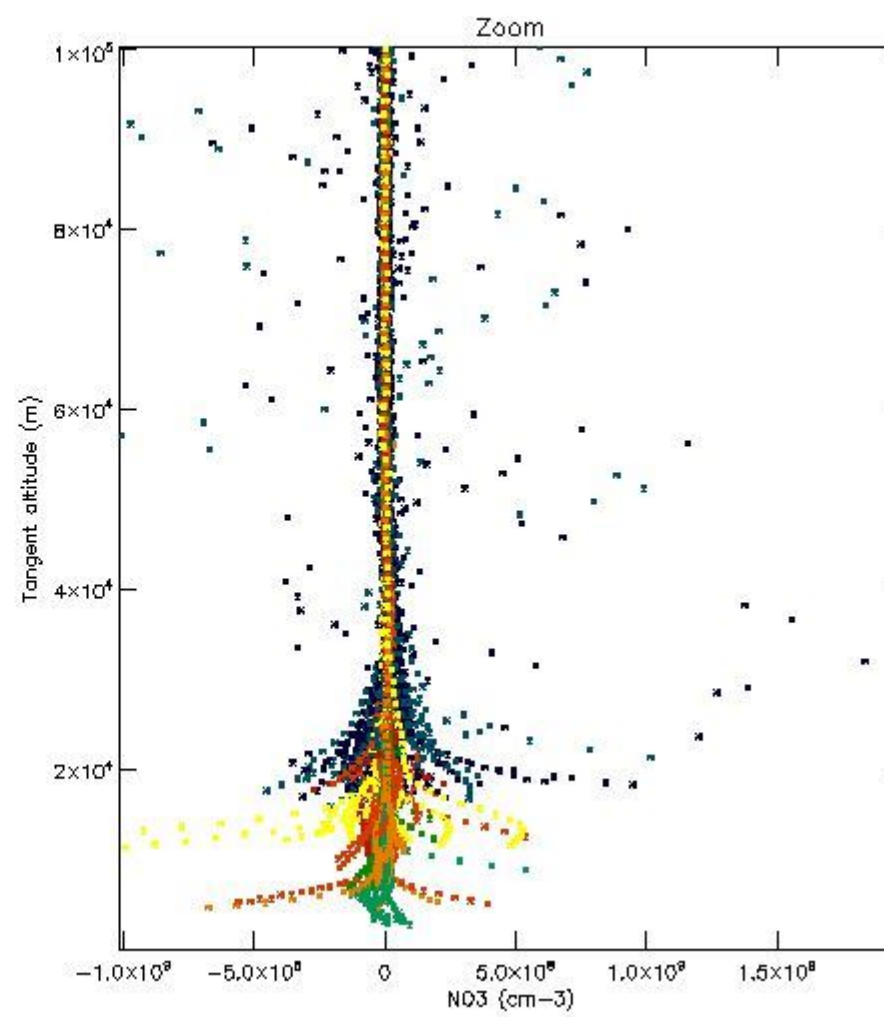
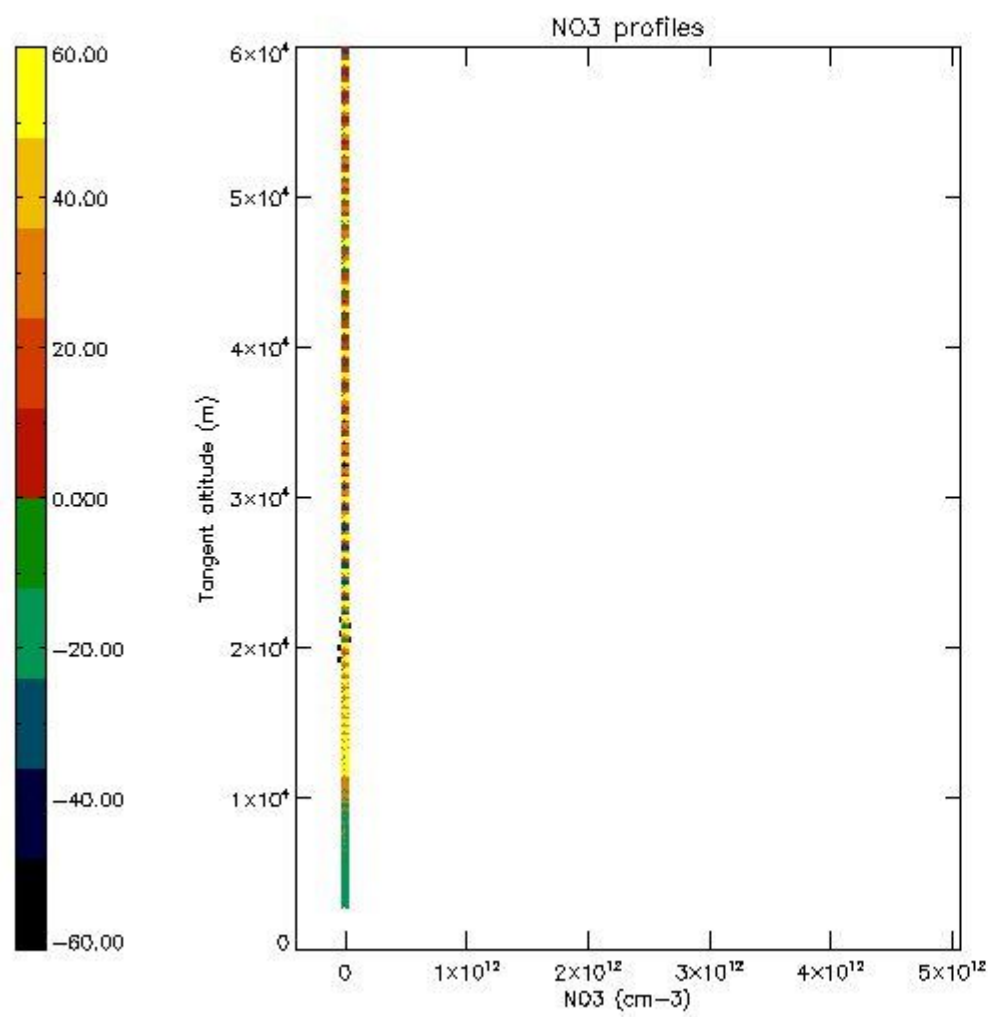
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



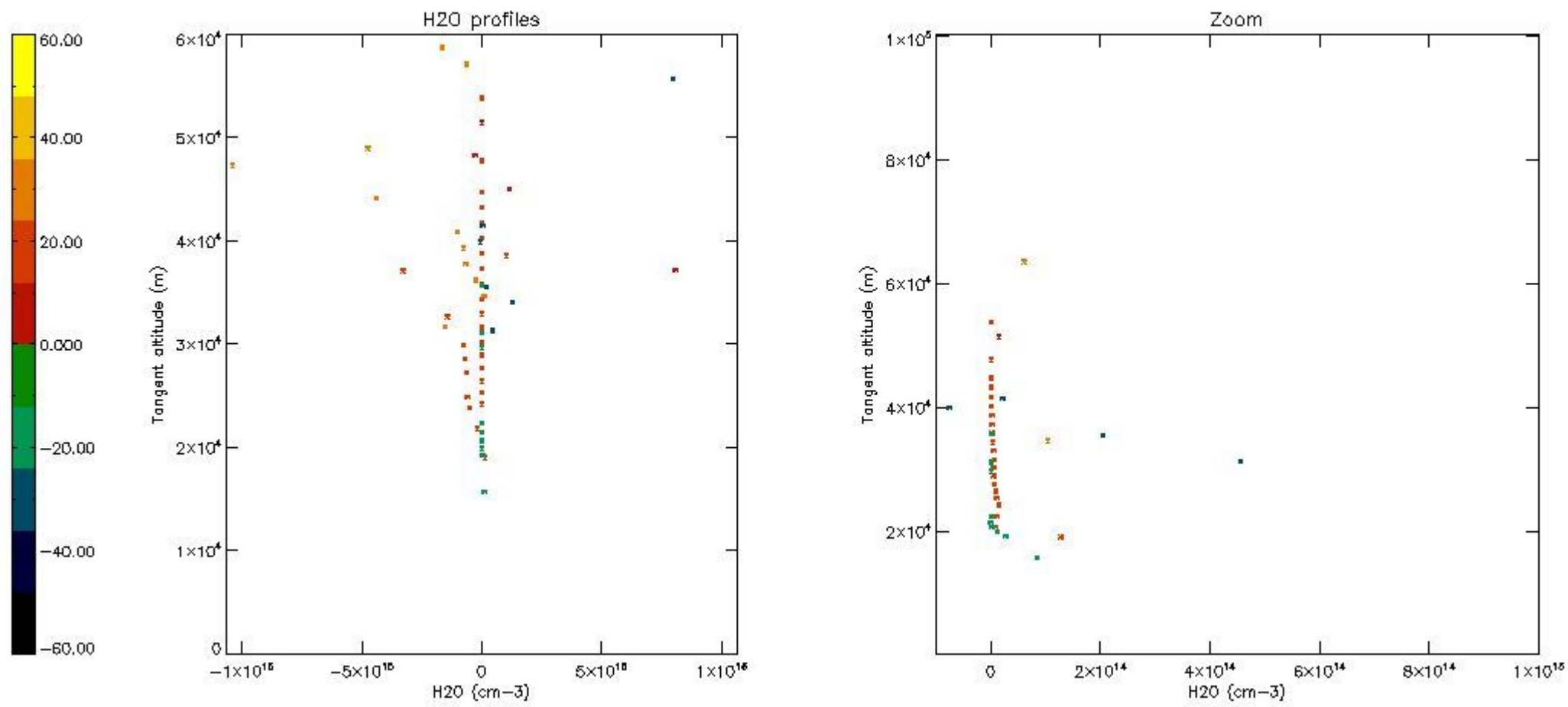
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

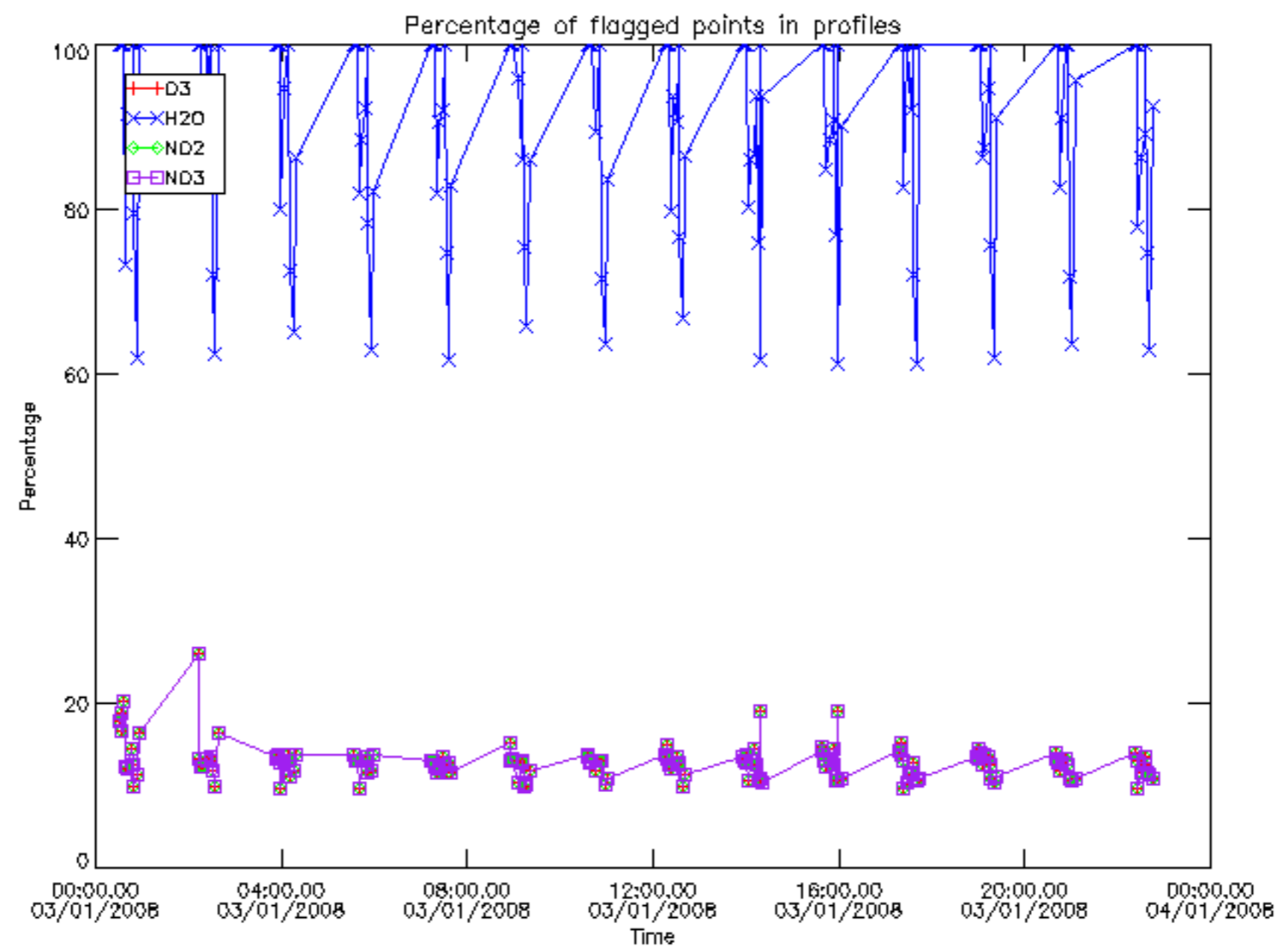
The colorbar represents the latitude.



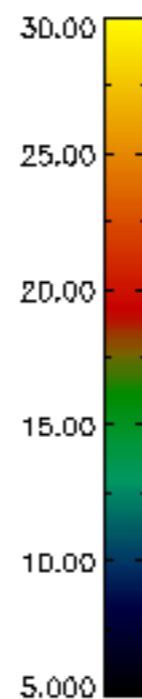
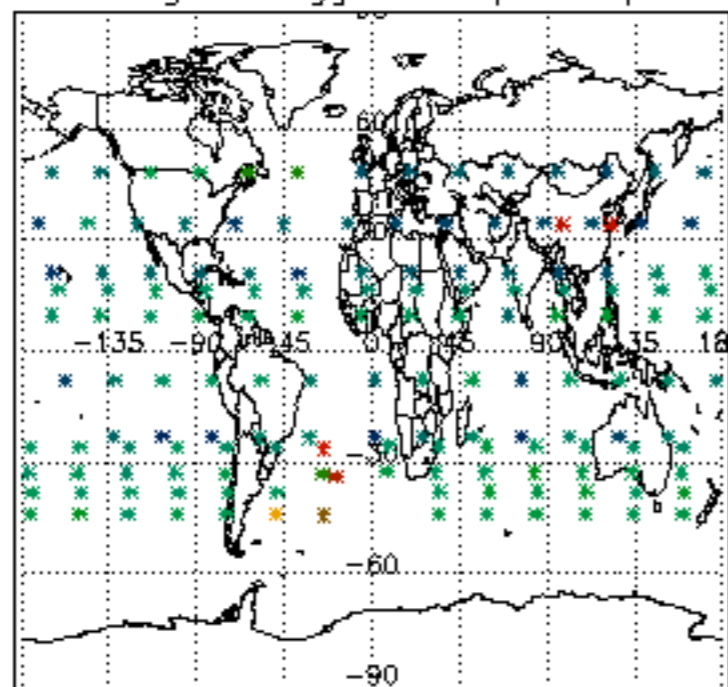
6. Auxiliary Data Files used for the production reported in section 2

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.

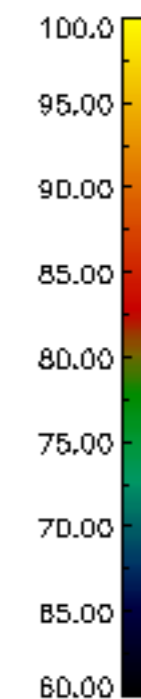
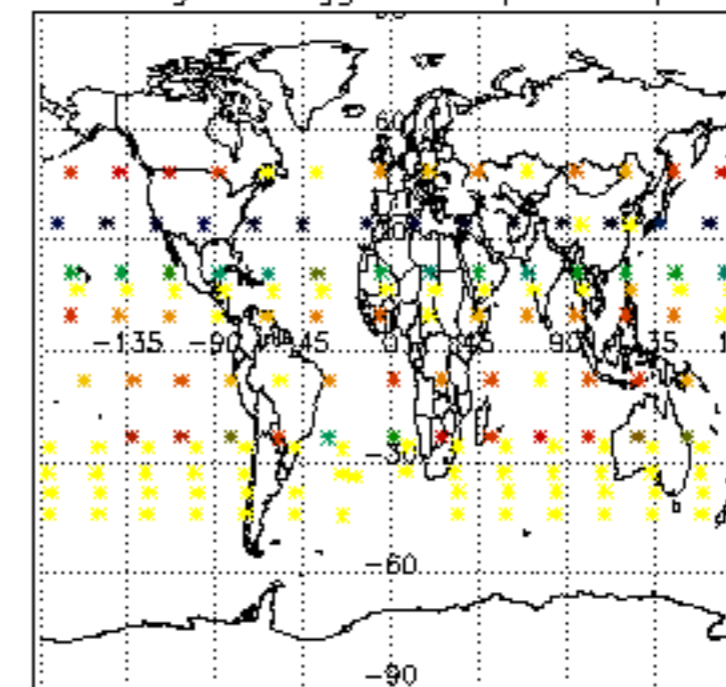
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	03-JAN-2008 00:02:22
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	03-JAN-2008 00:02:22
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	03-JAN-2008 00:02:22



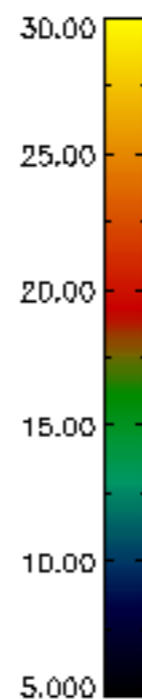
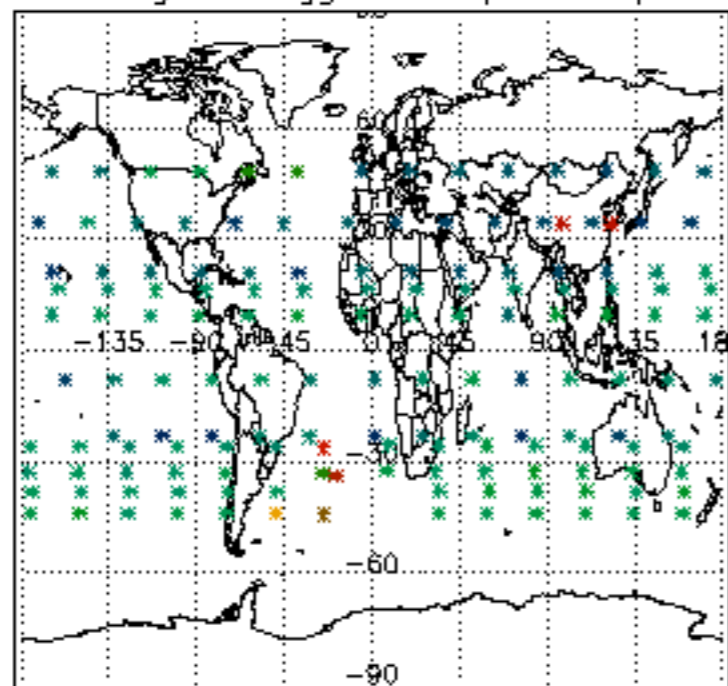
Percentage of flagged data per D3 profile



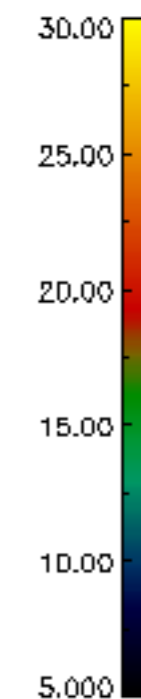
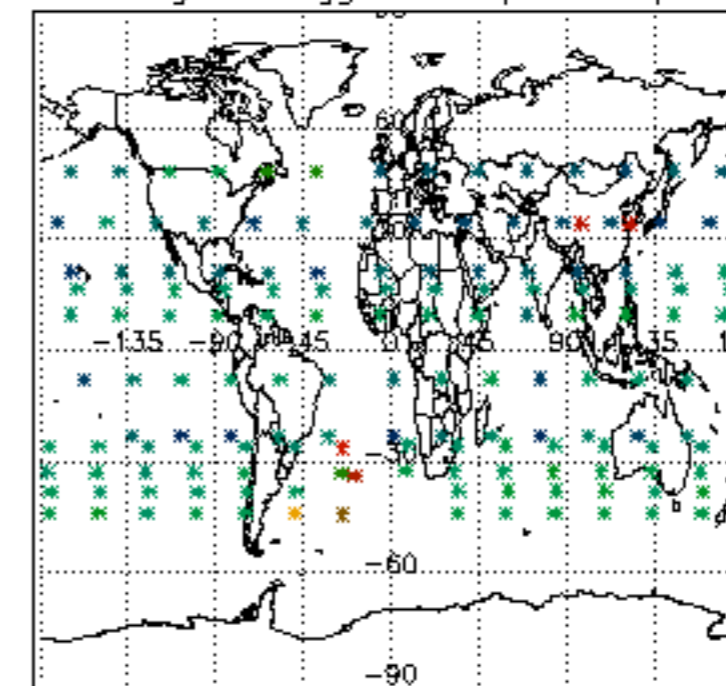
Percentage of flagged data per H2O profile

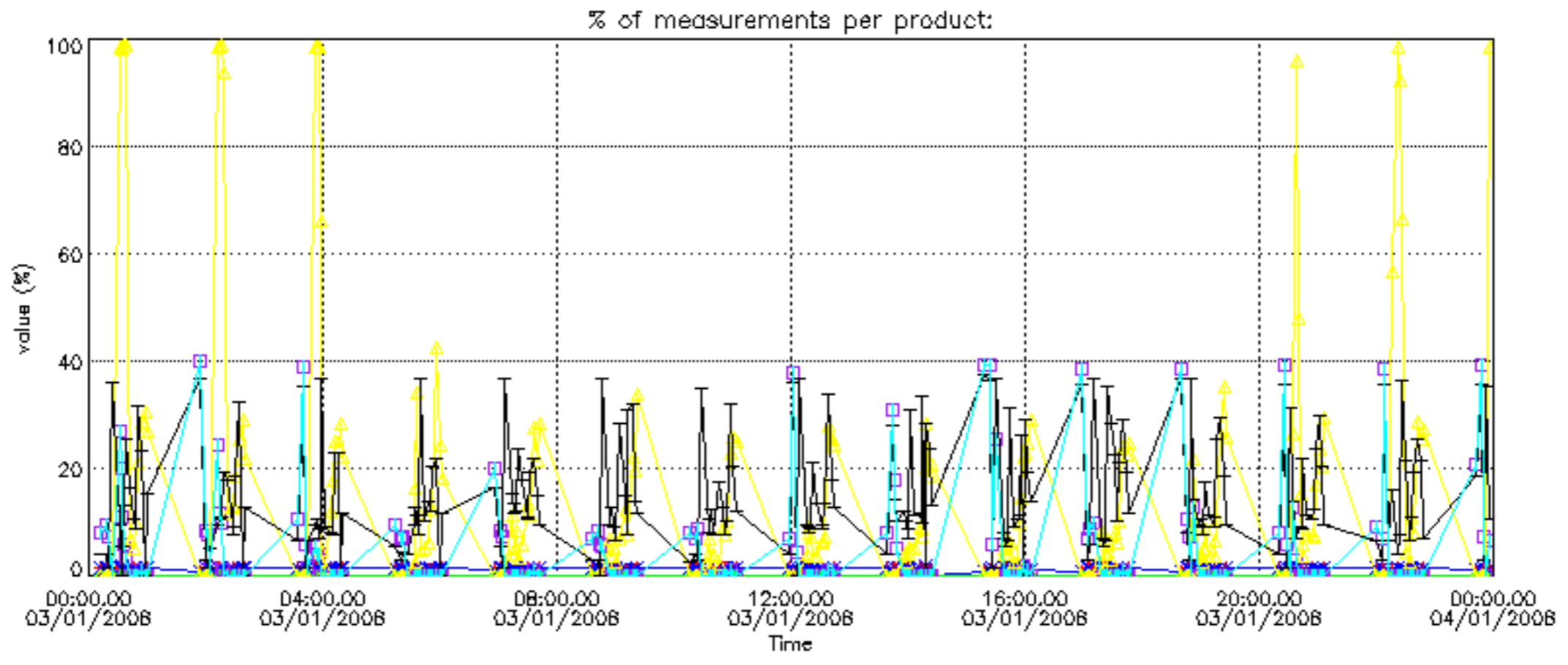


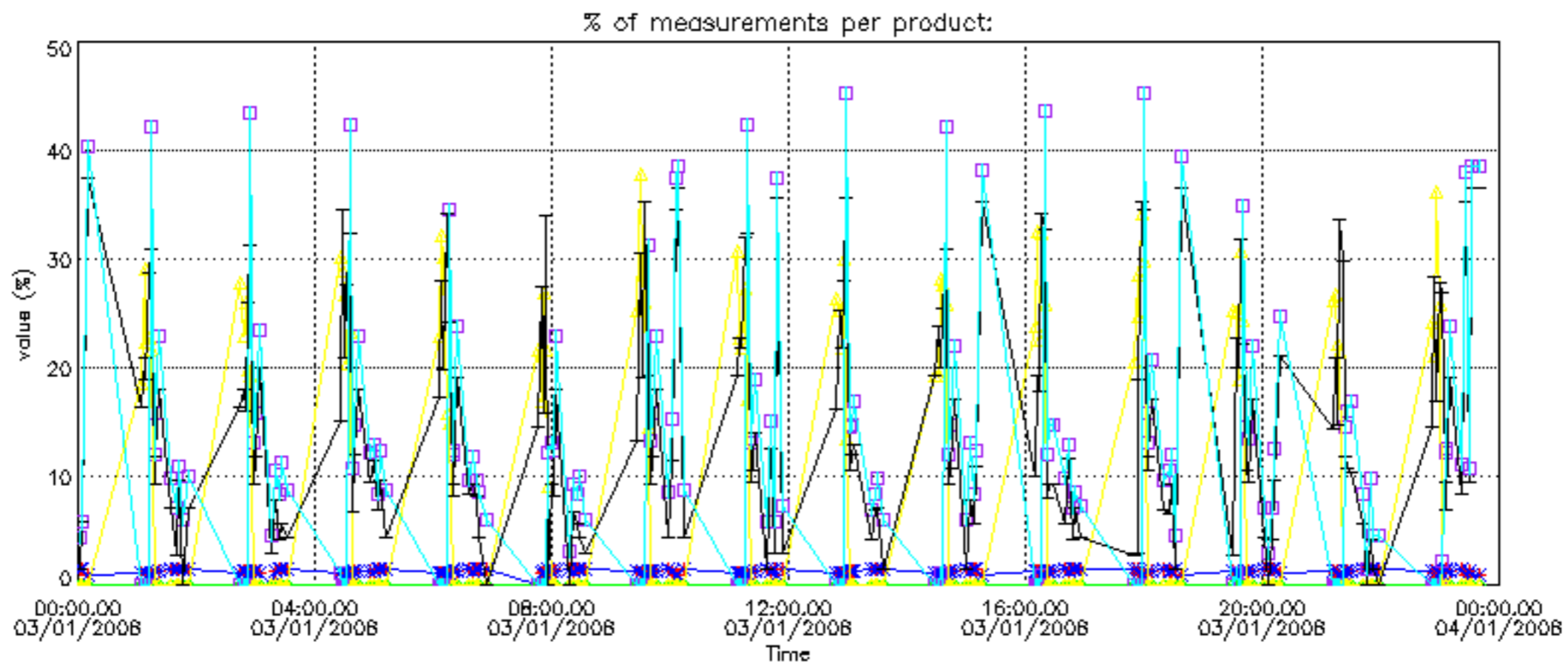
Percentage of flagged data per NO2 profile



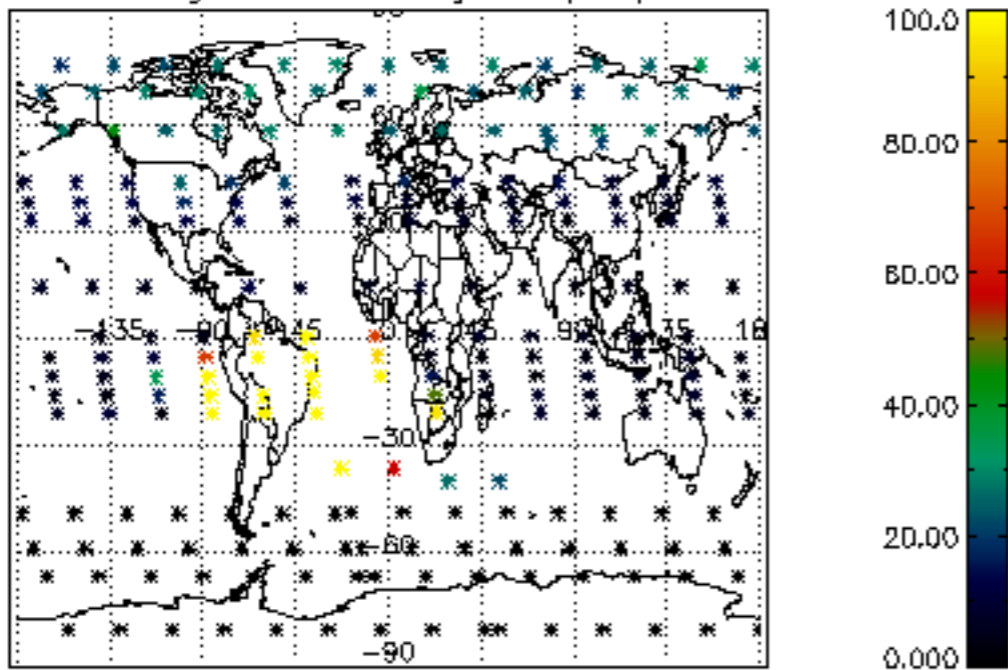
Percentage of flagged data per NO3 profile



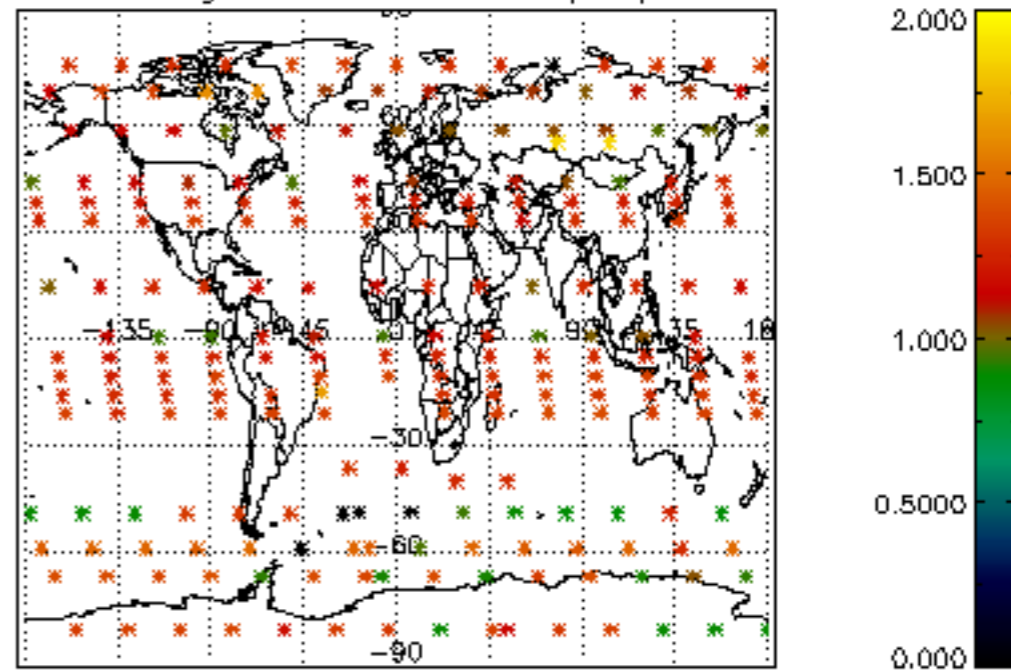




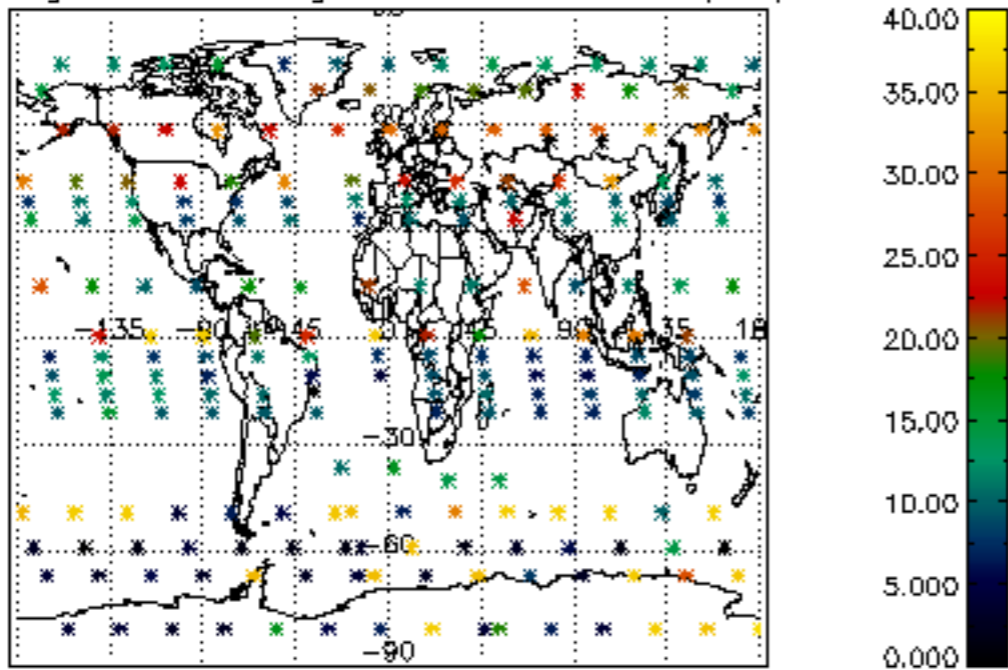
Percentage of cosmic ray hits per profile



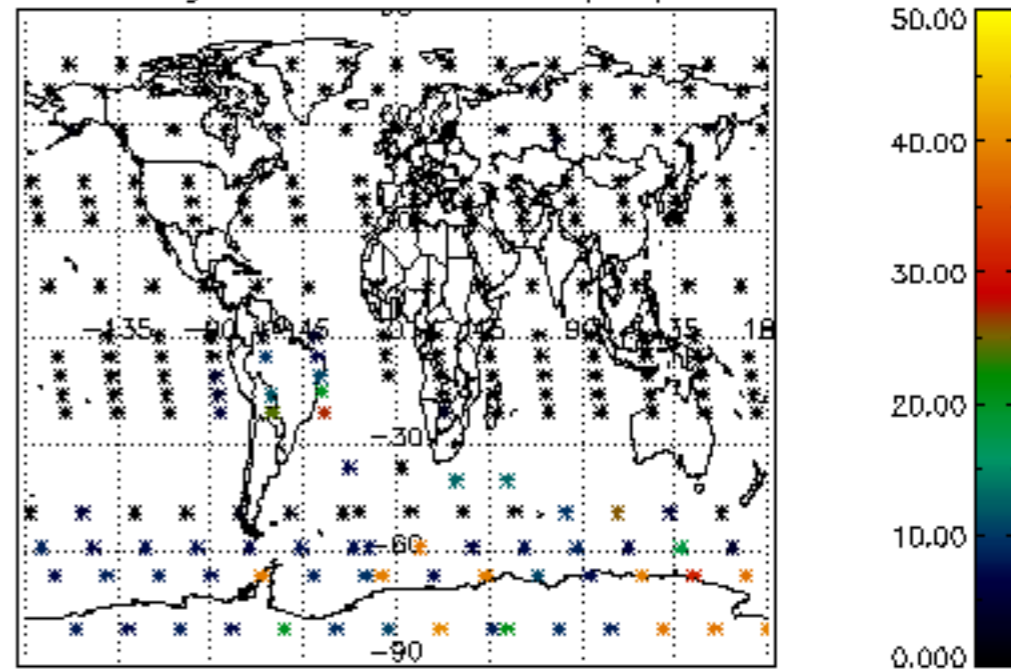
Percentage of datation errors per profile



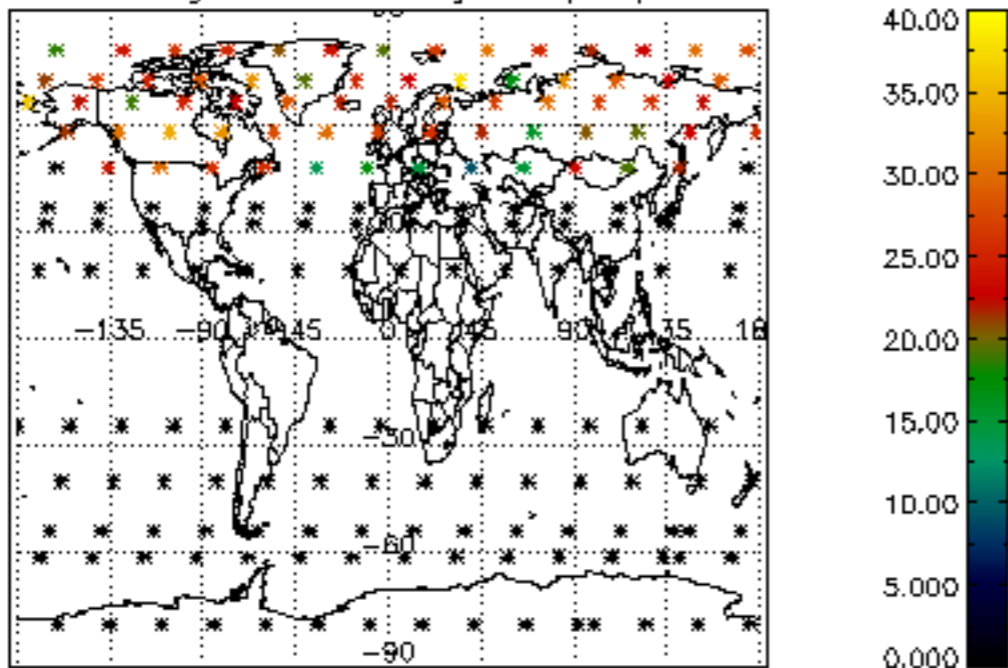
Percentage of star falling outside central band per profile



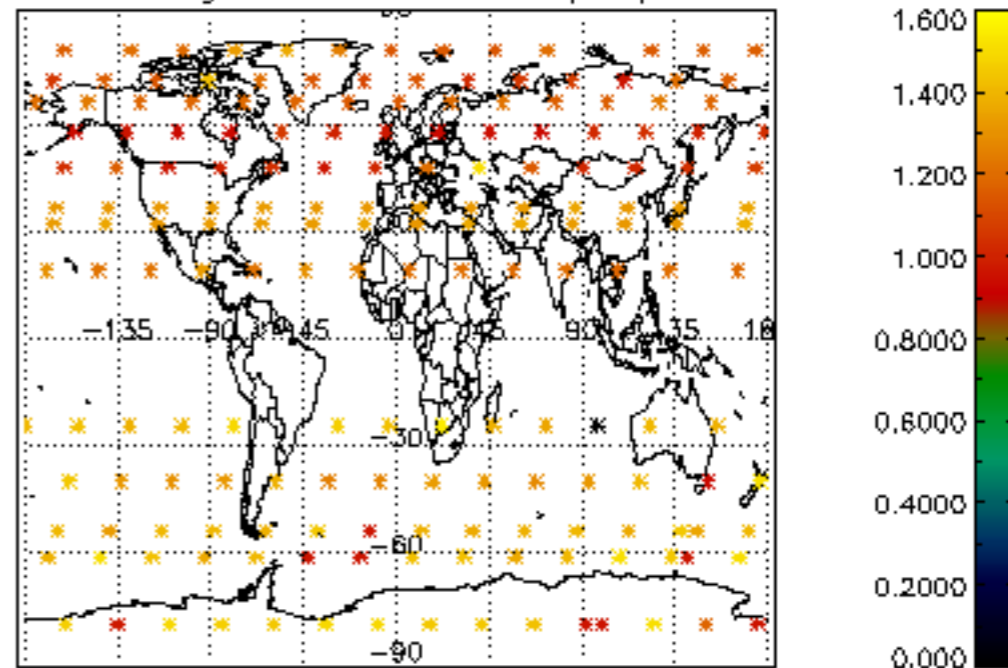
Percentage of saturation errors per profile



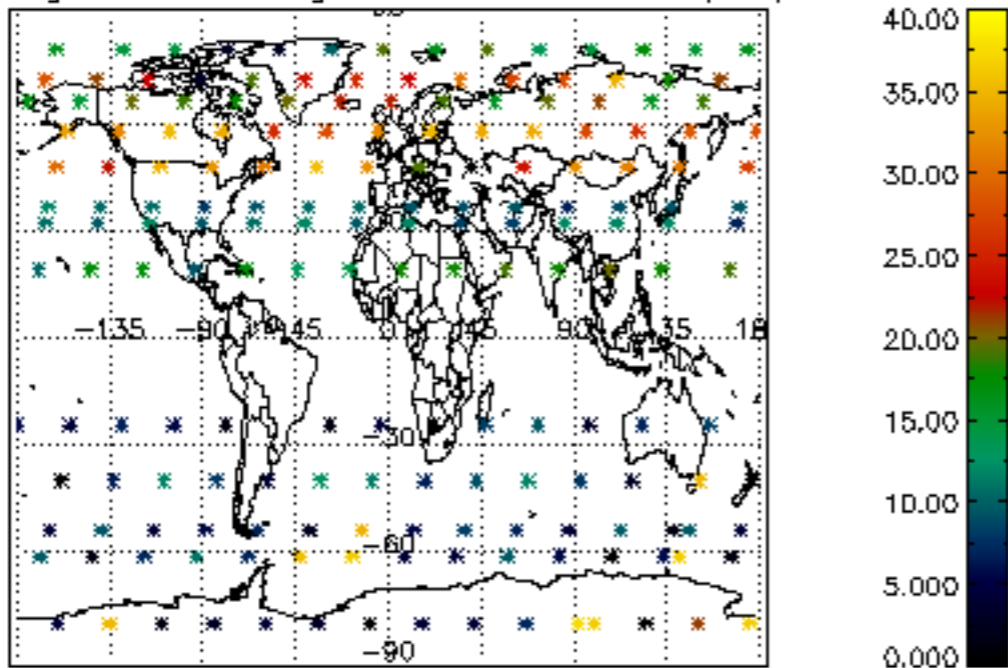
Percentage of cosmic ray hits per profile



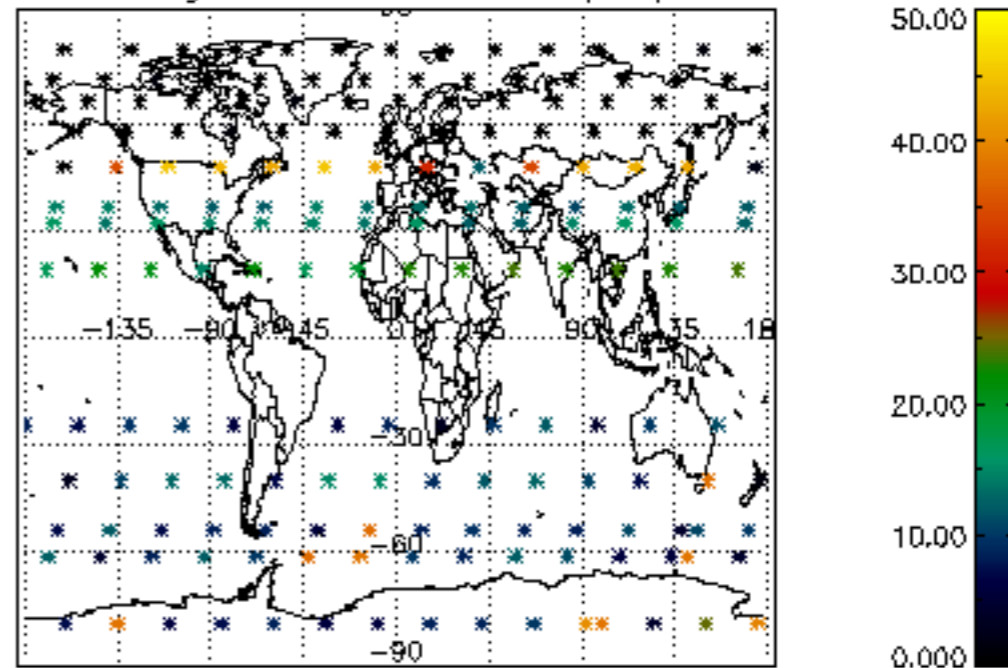
Percentage of datation errors per profile

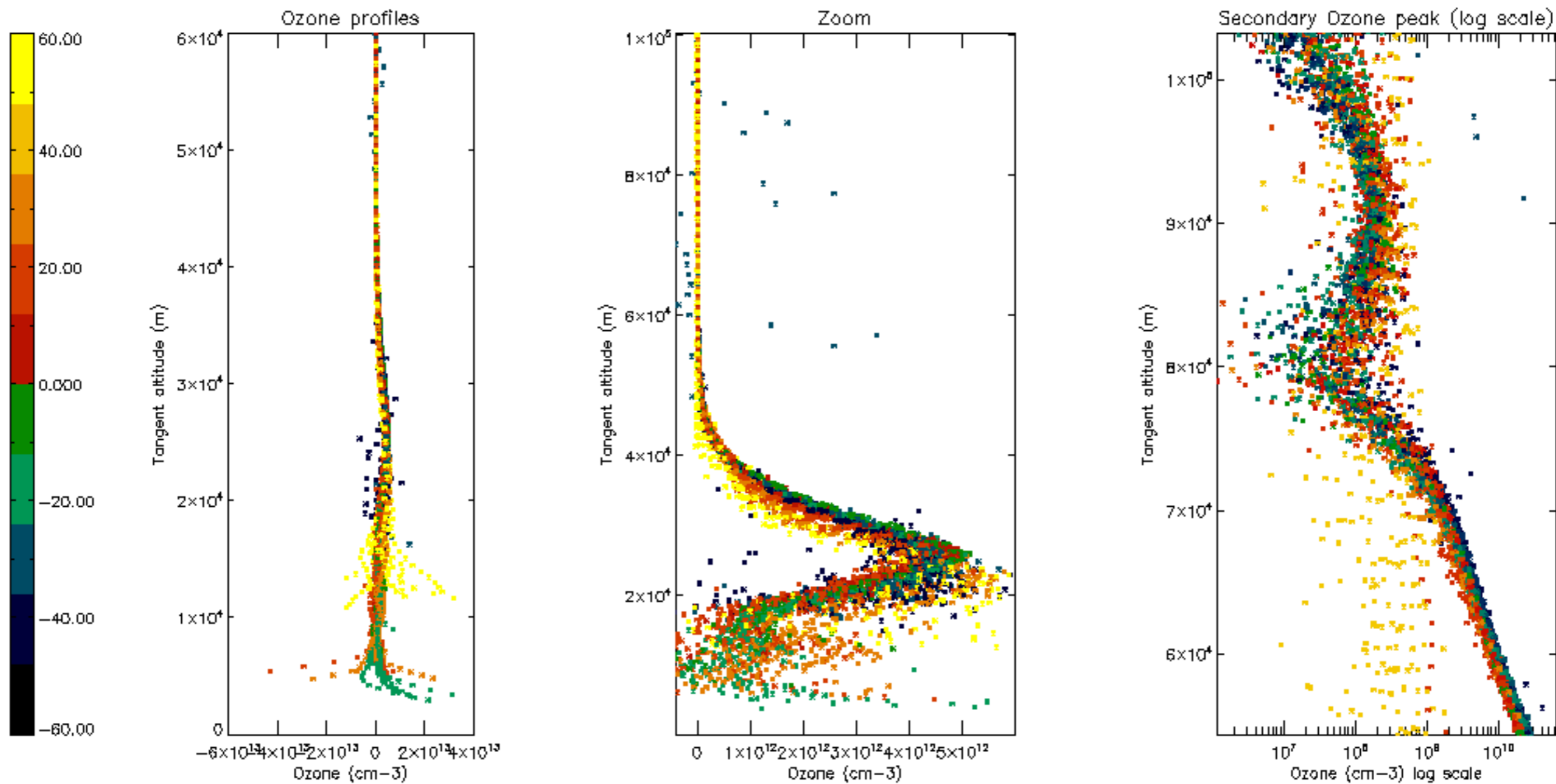


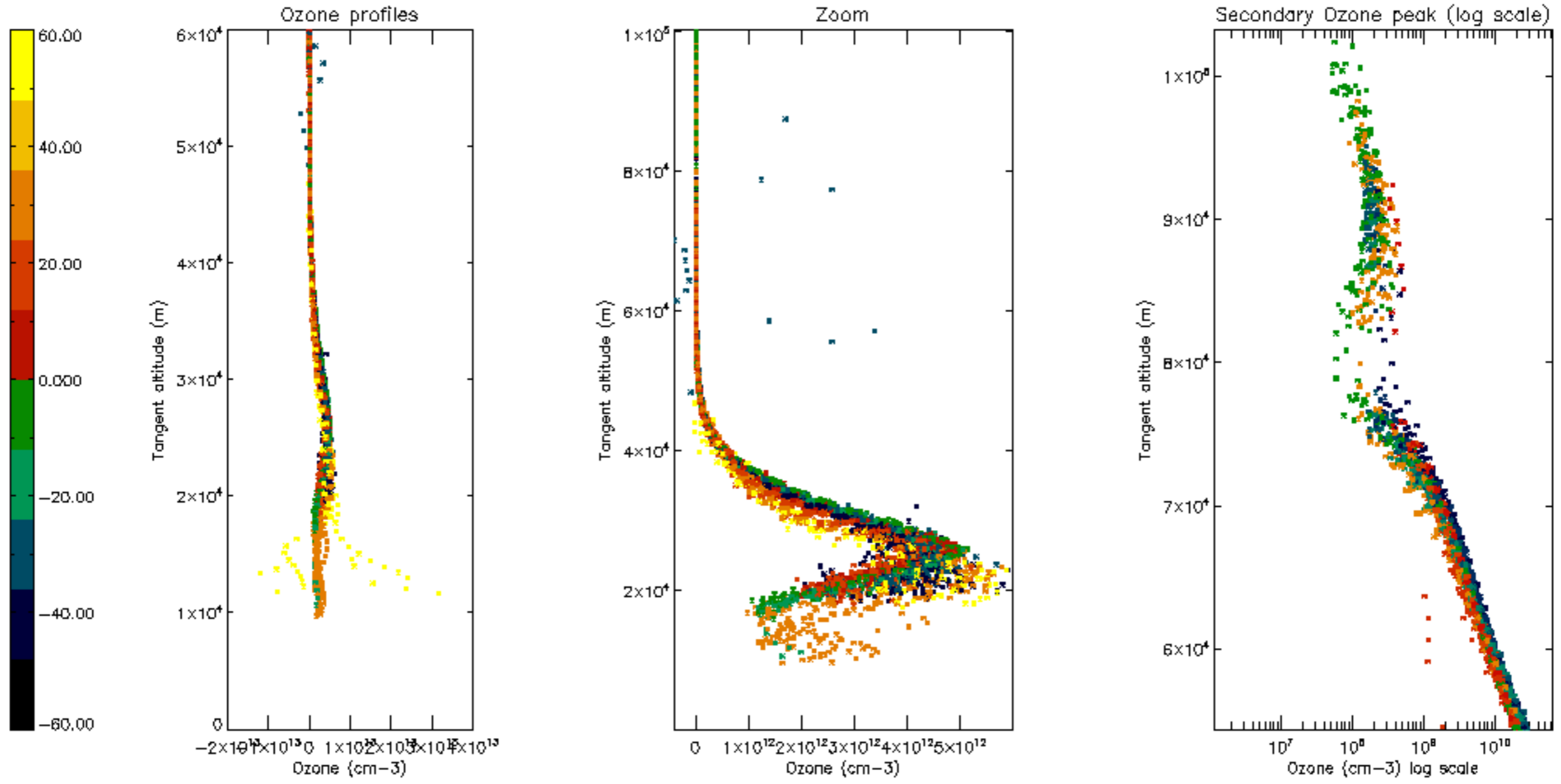
Percentage of star falling outside central band per profile

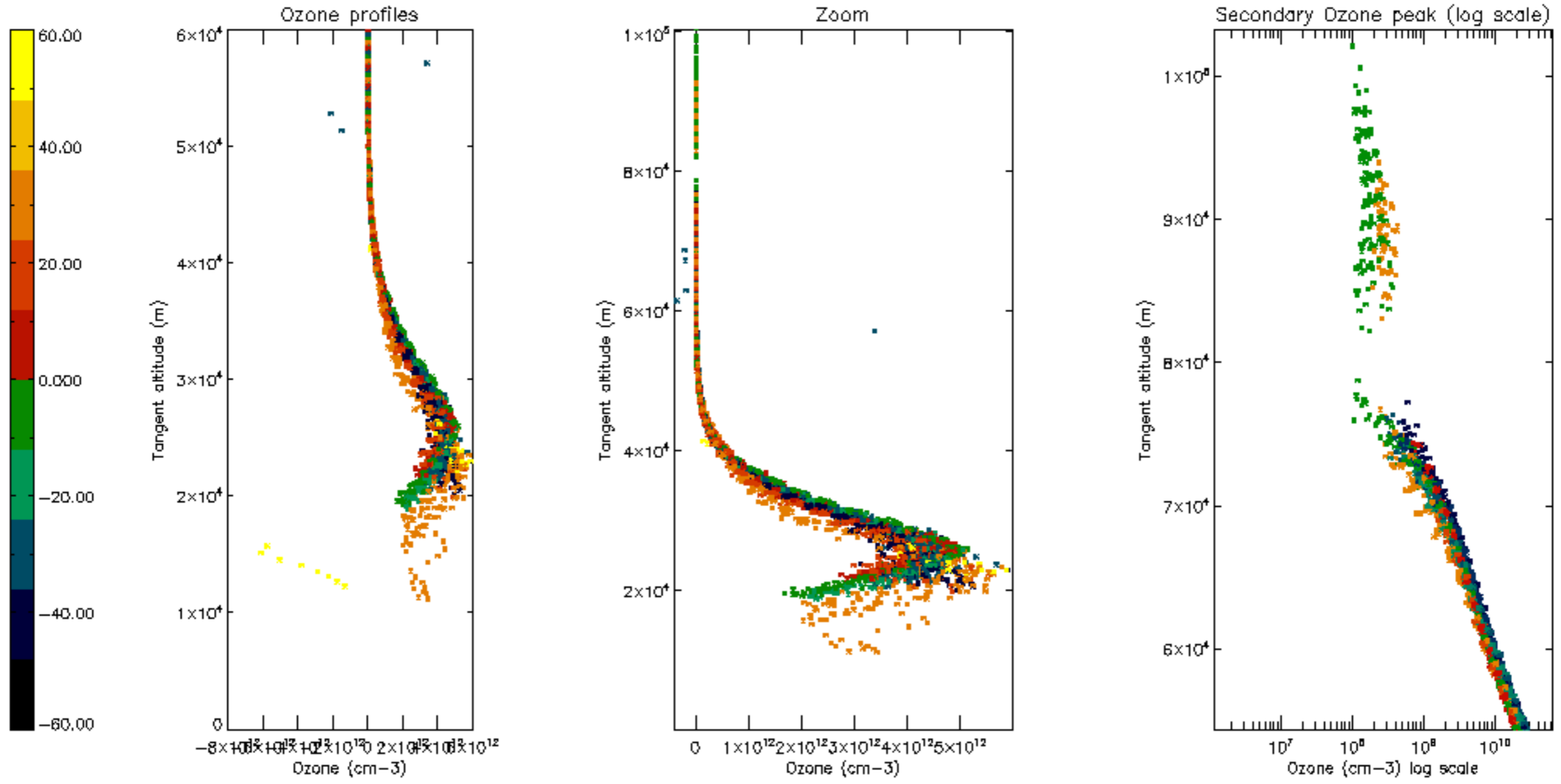


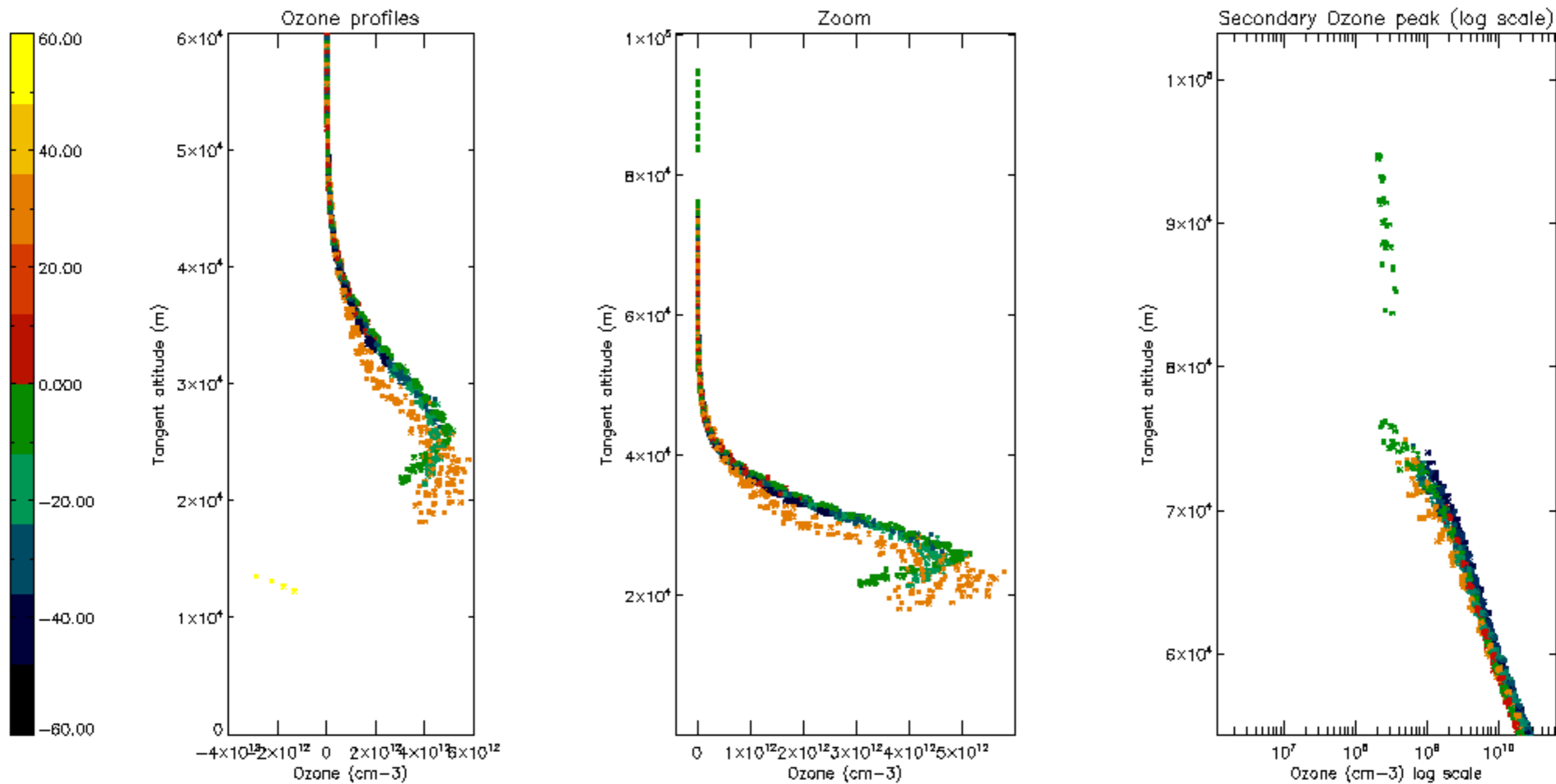
Percentage of saturation errors per profile

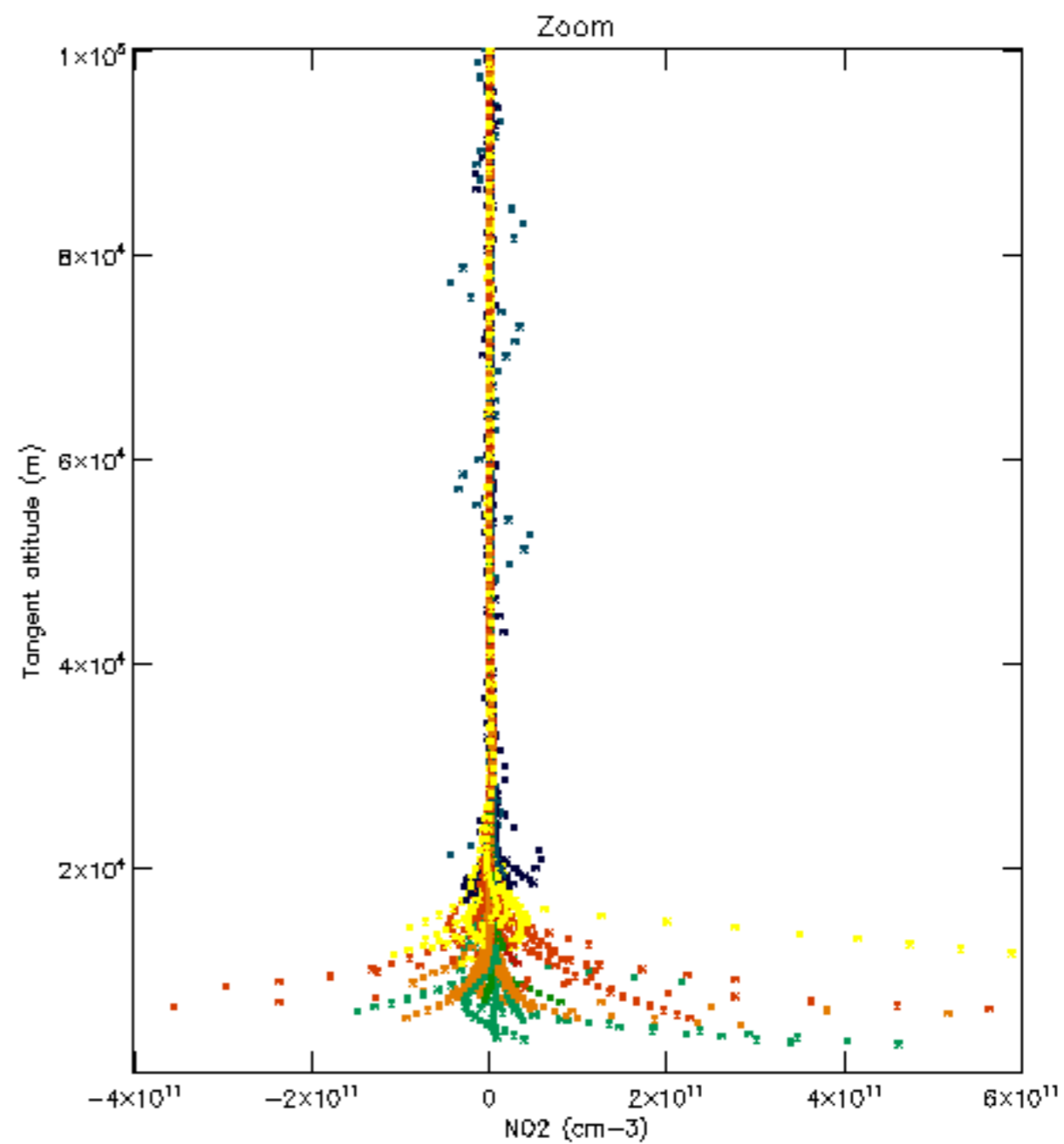
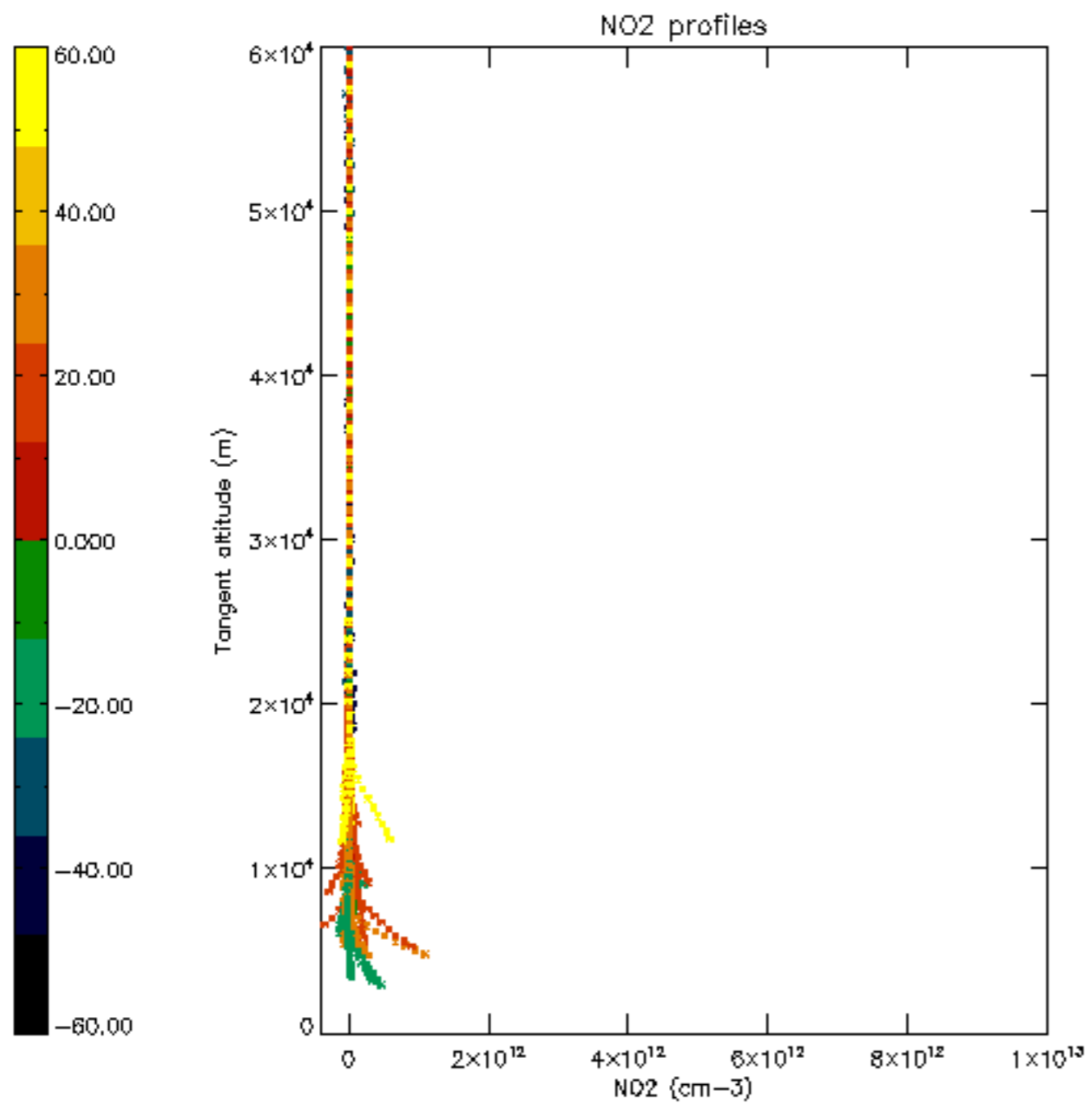


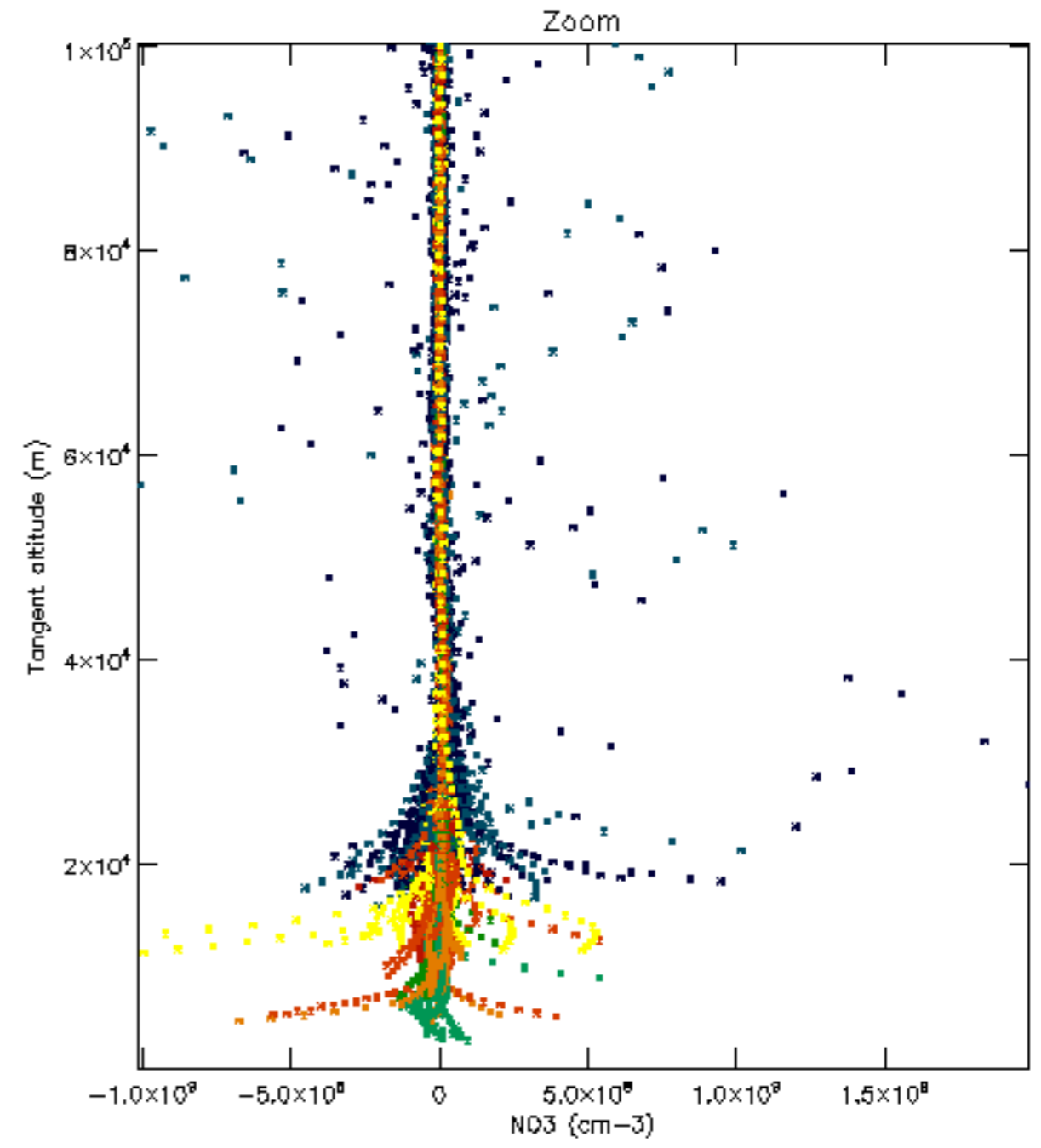
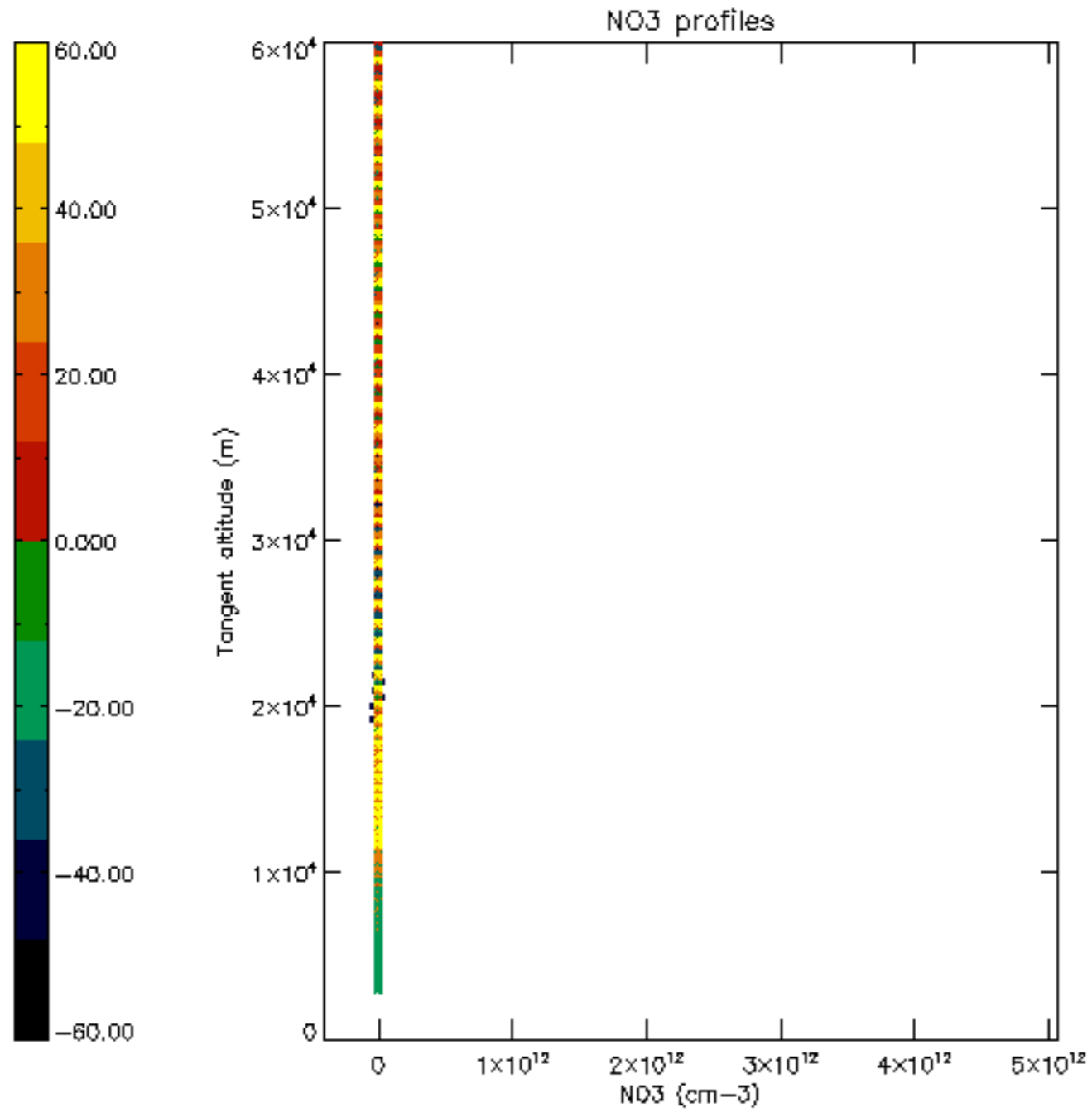


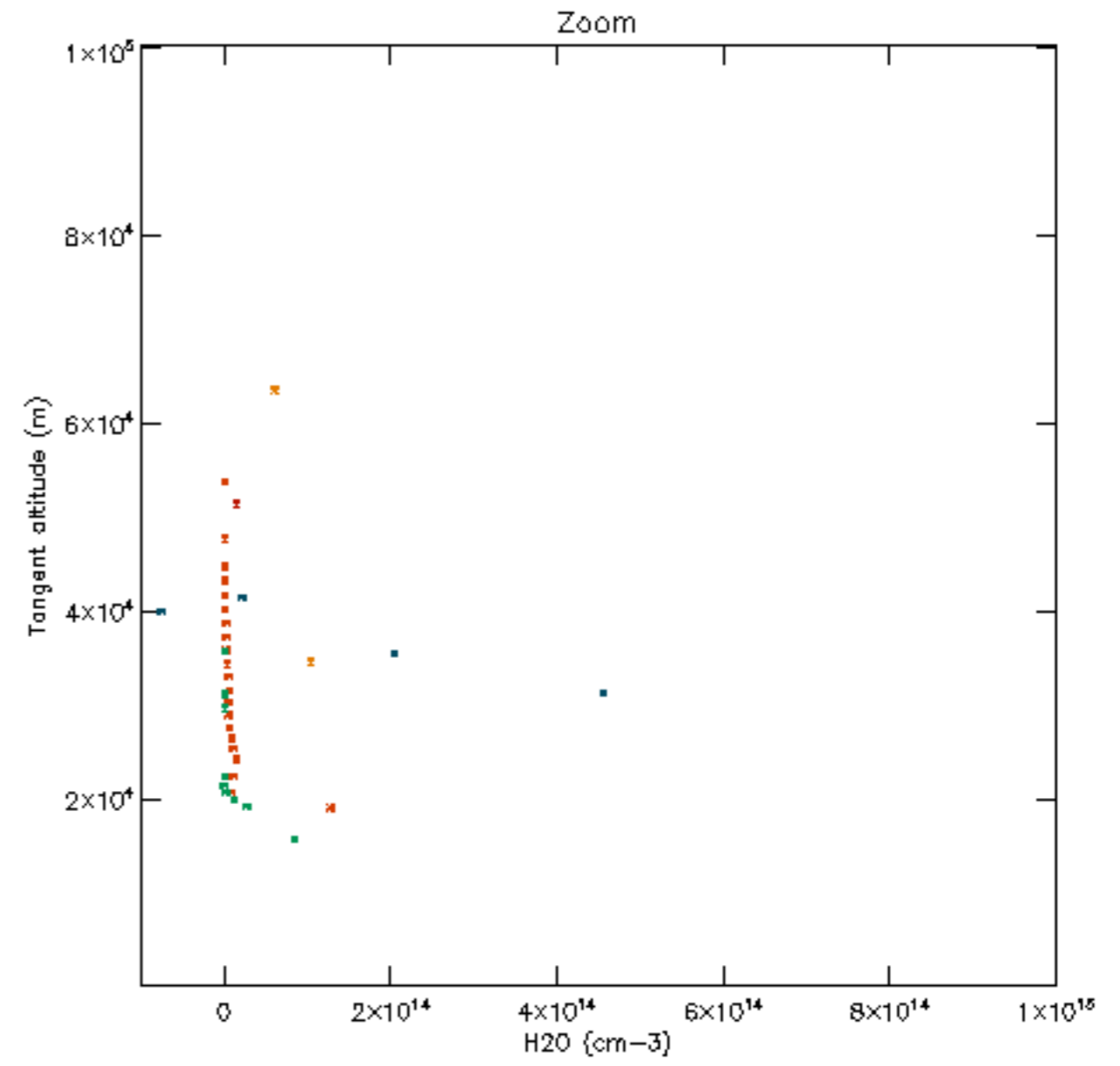
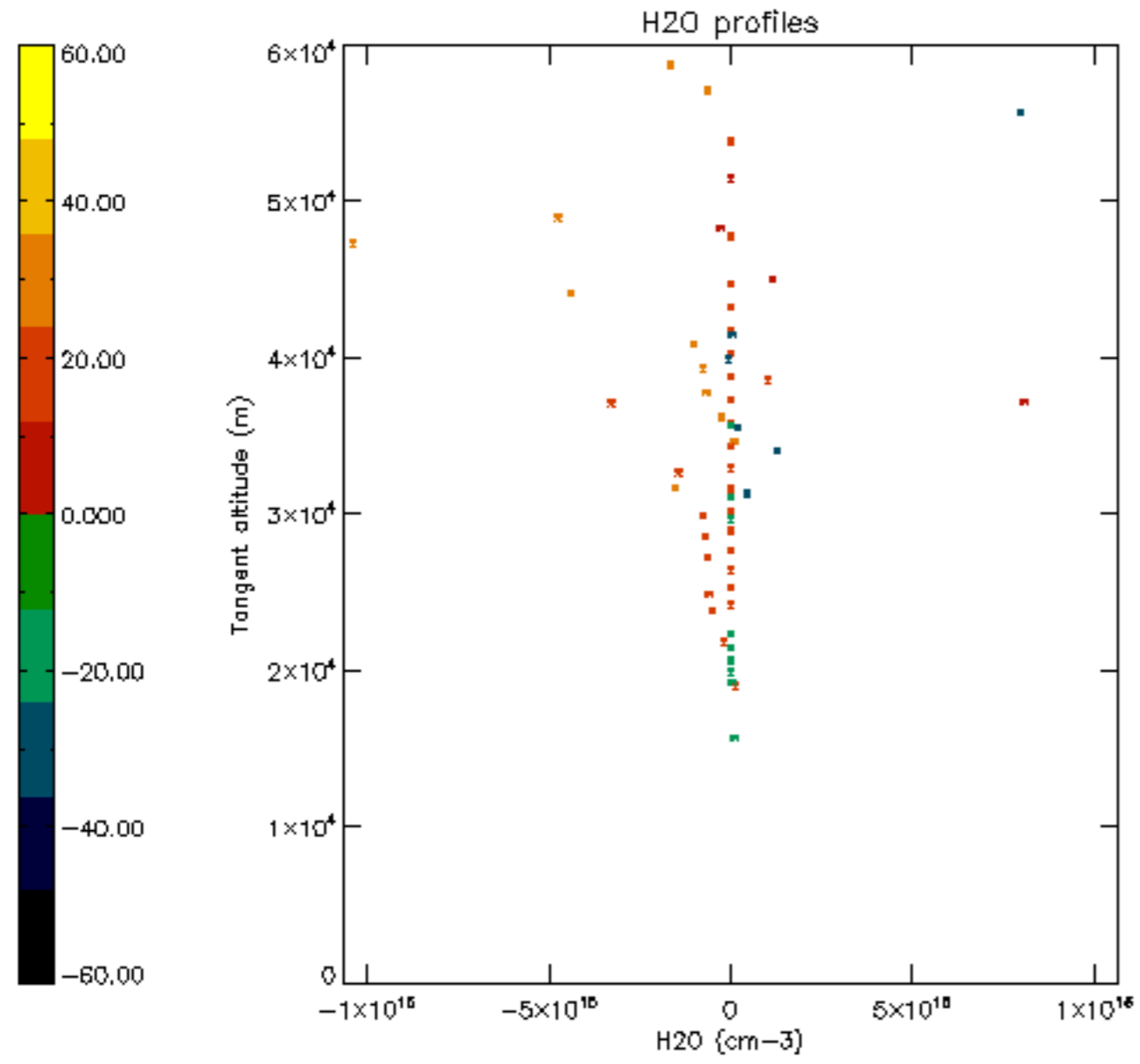


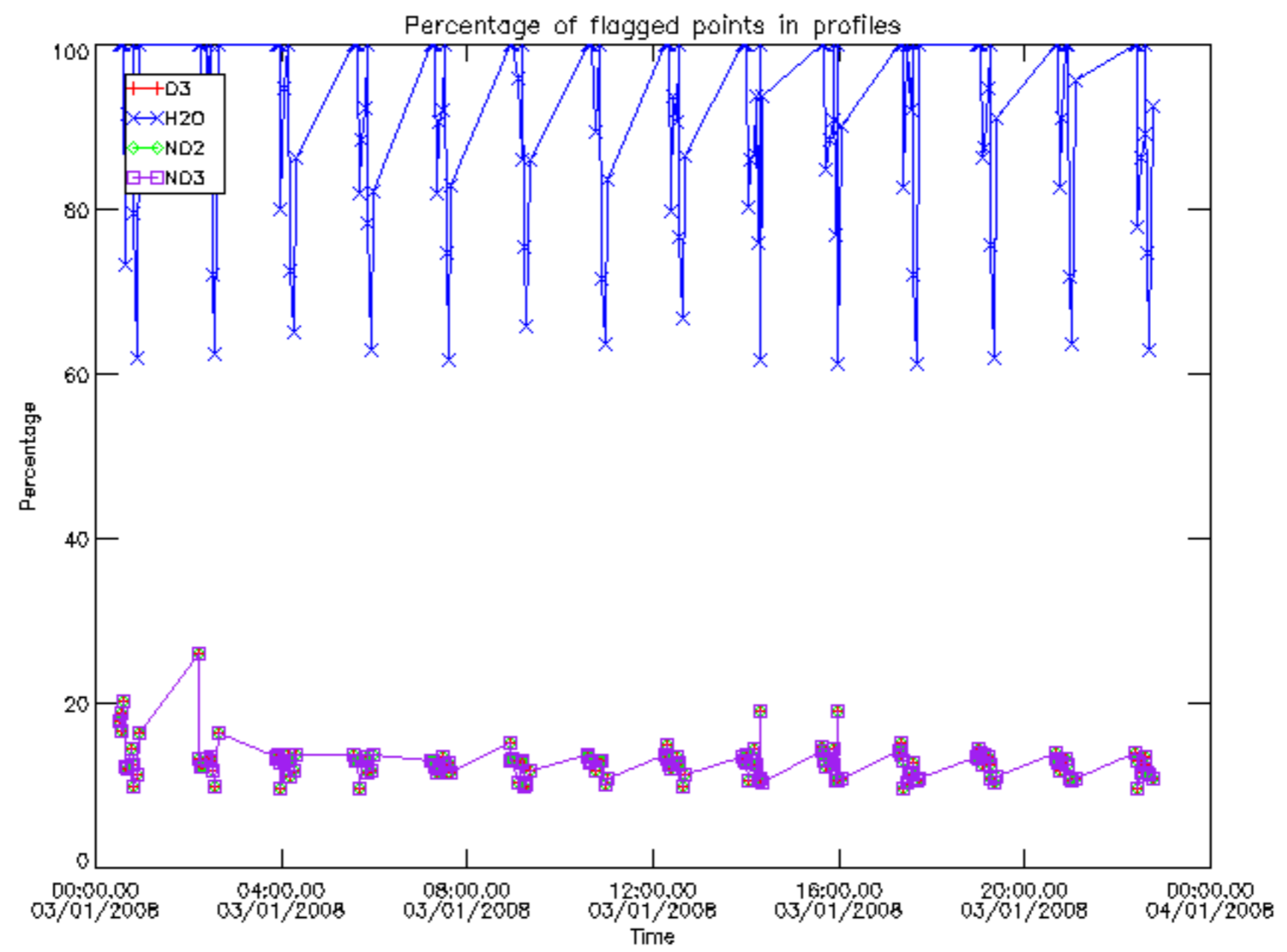




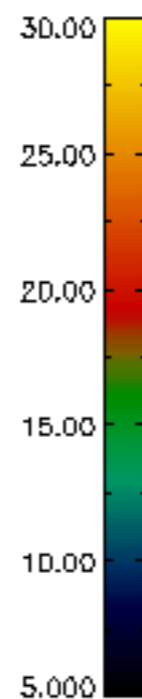
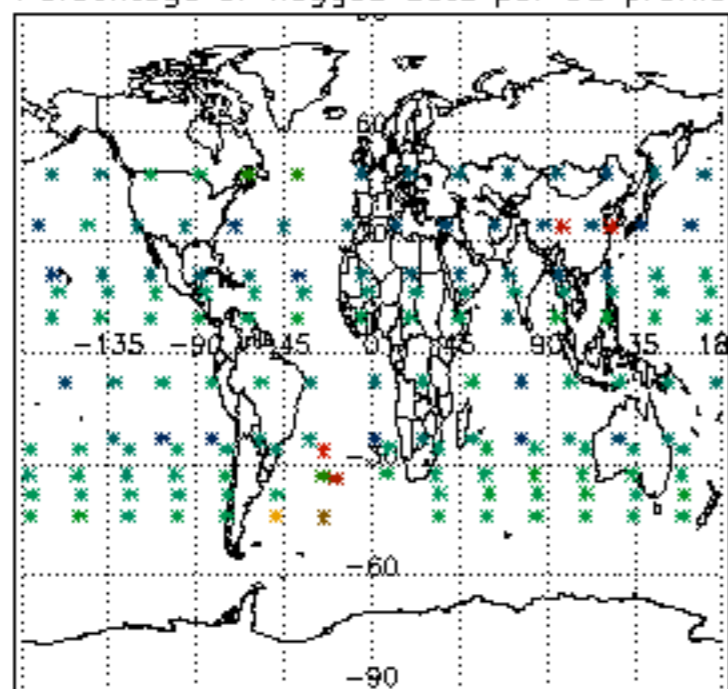




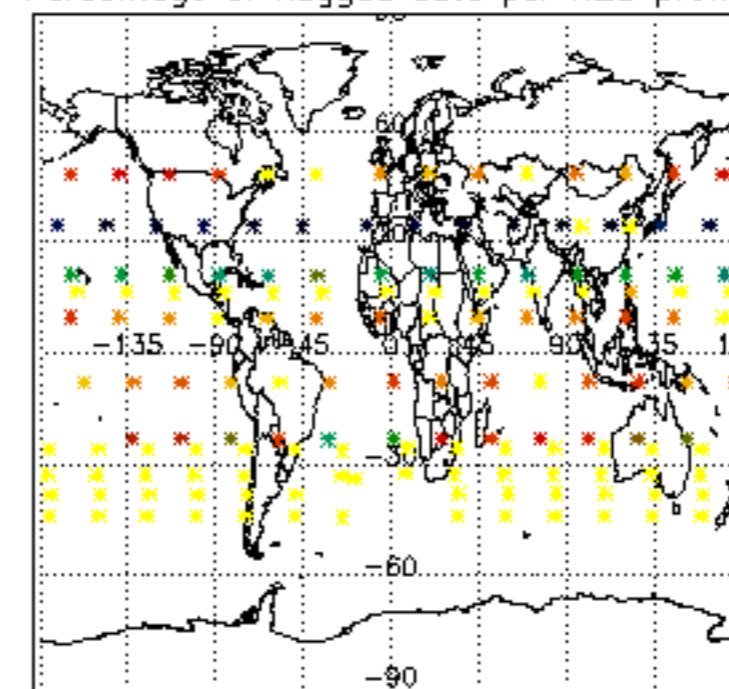




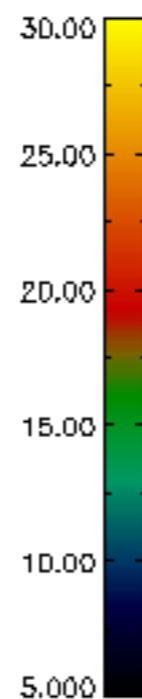
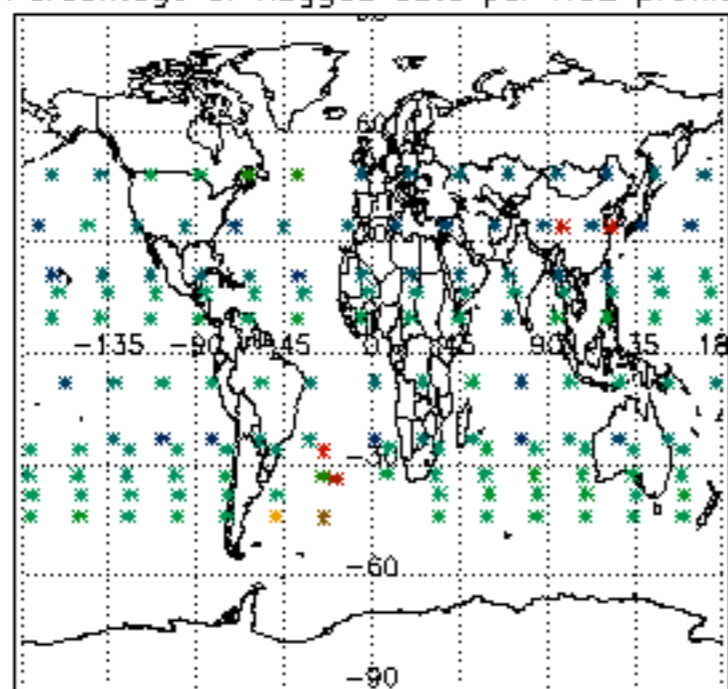
Percentage of flagged data per D3 profile



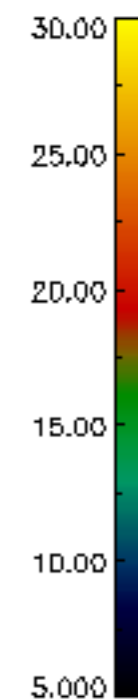
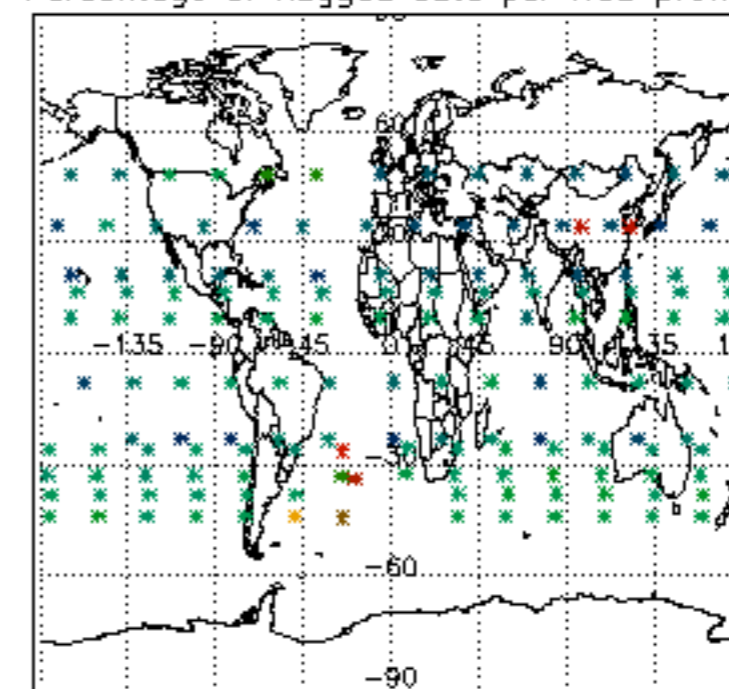
Percentage of flagged data per H2O profile

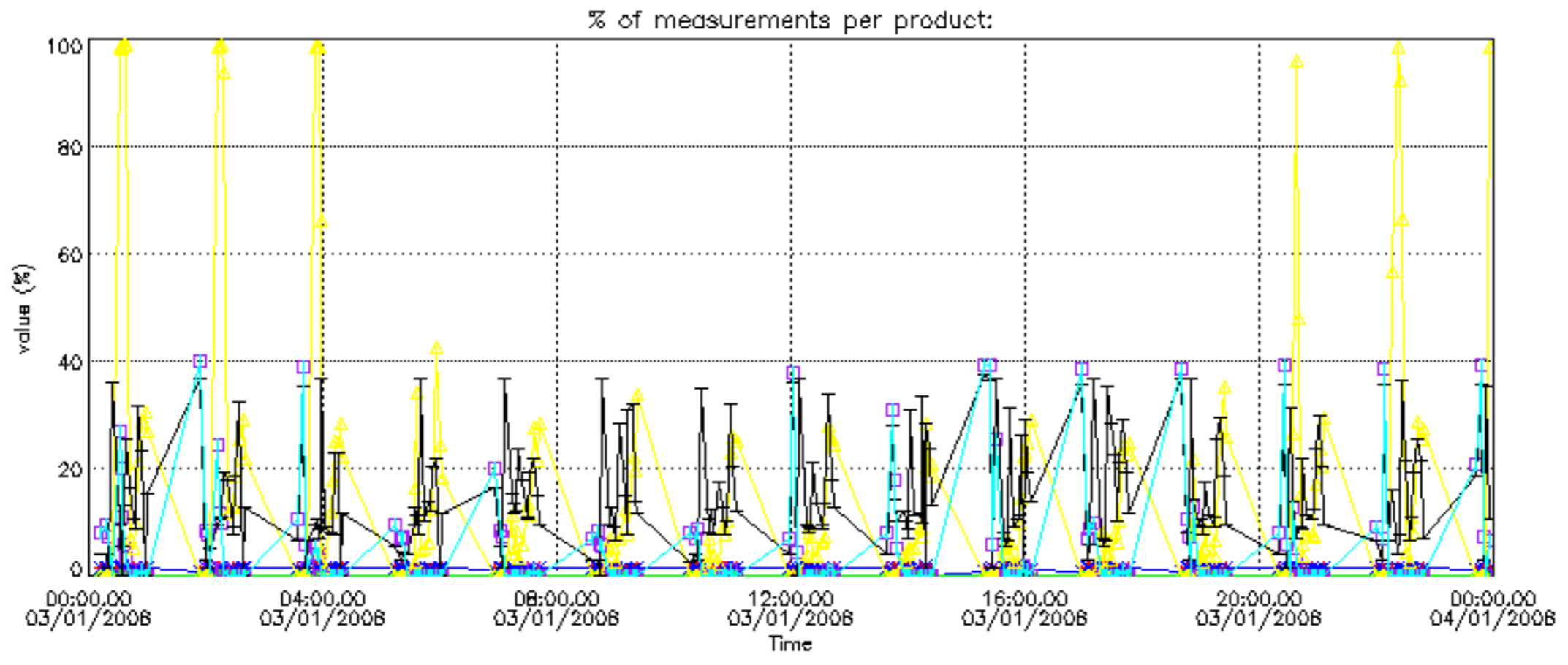


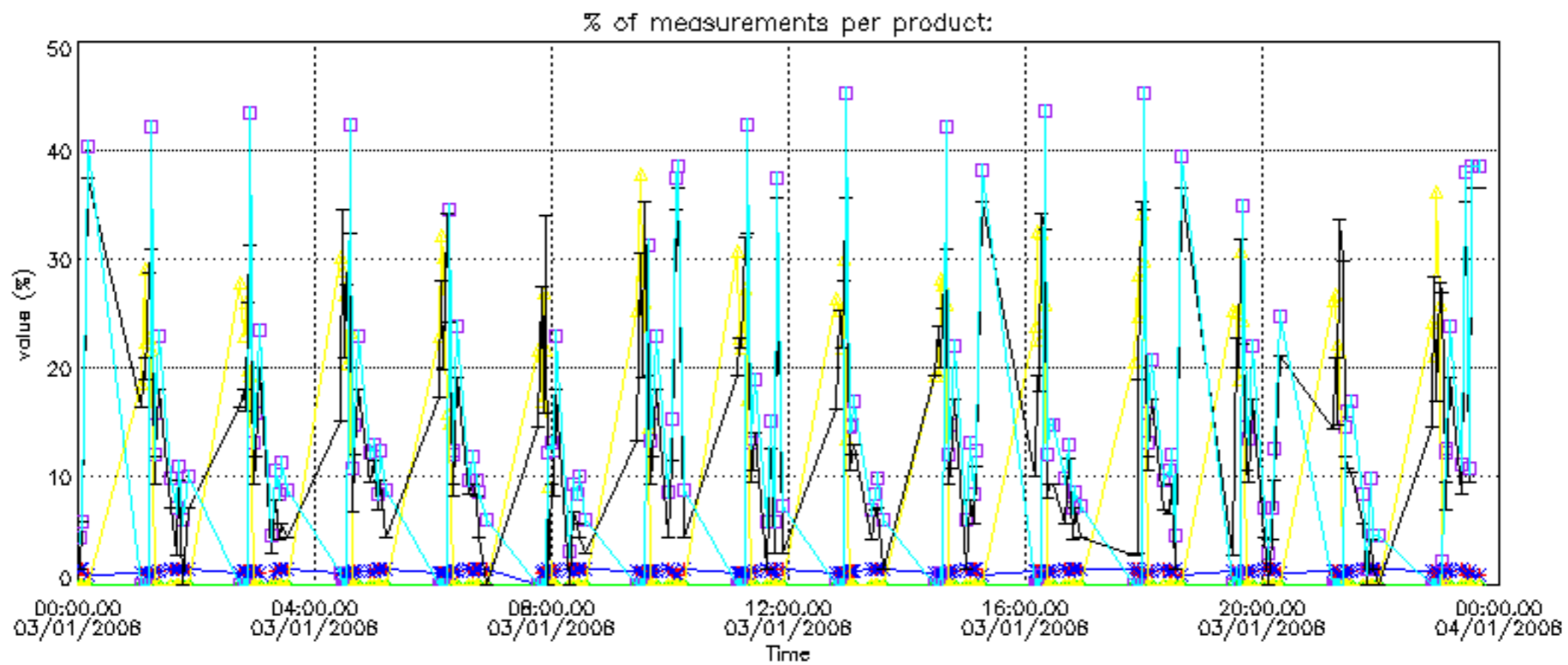
Percentage of flagged data per NO2 profile



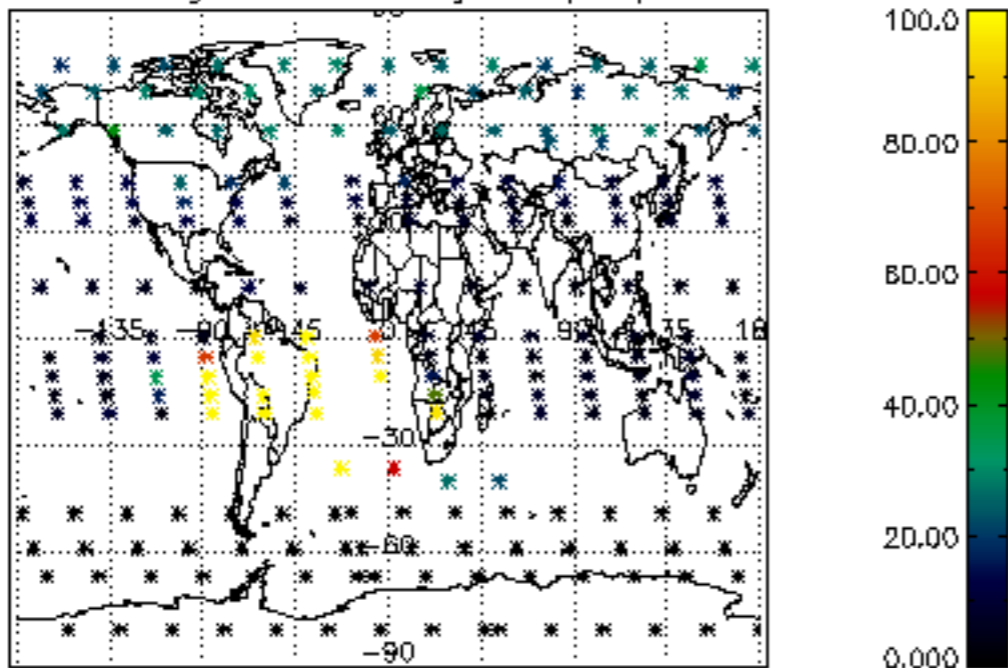
Percentage of flagged data per NO3 profile



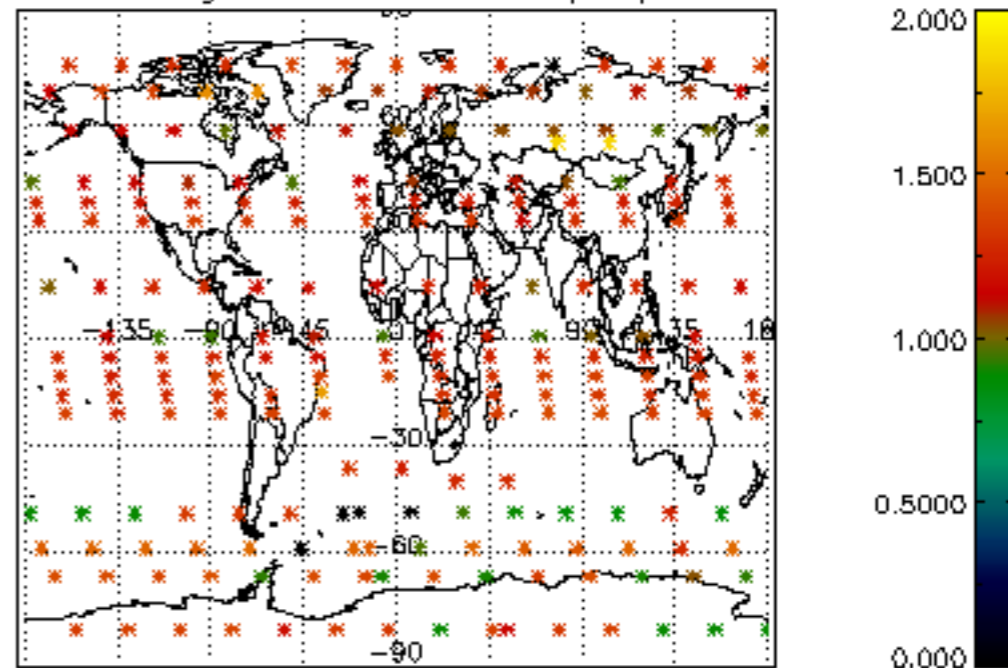




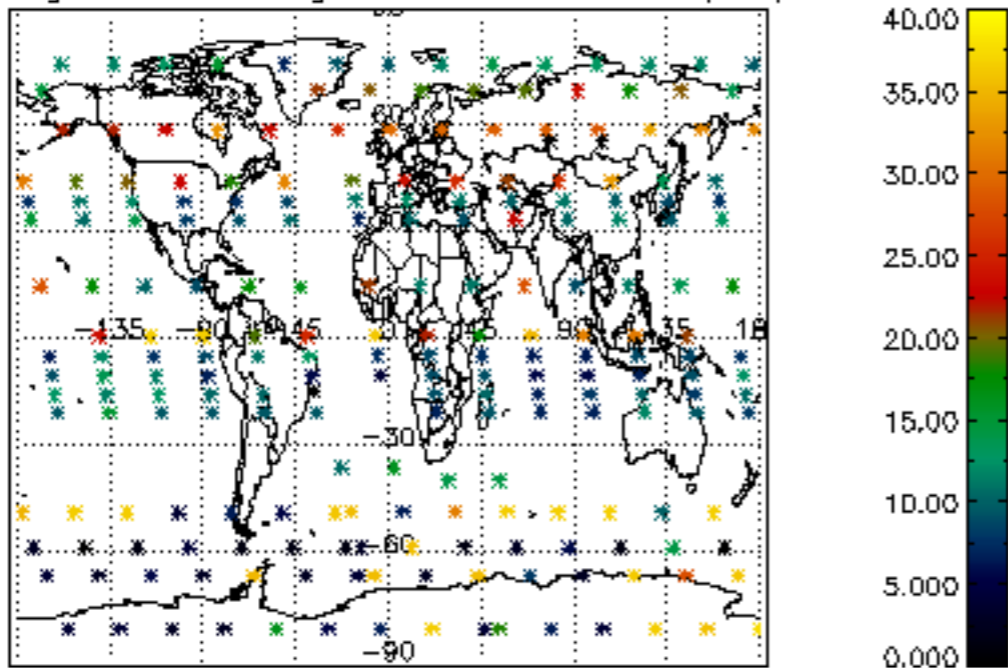
Percentage of cosmic ray hits per profile



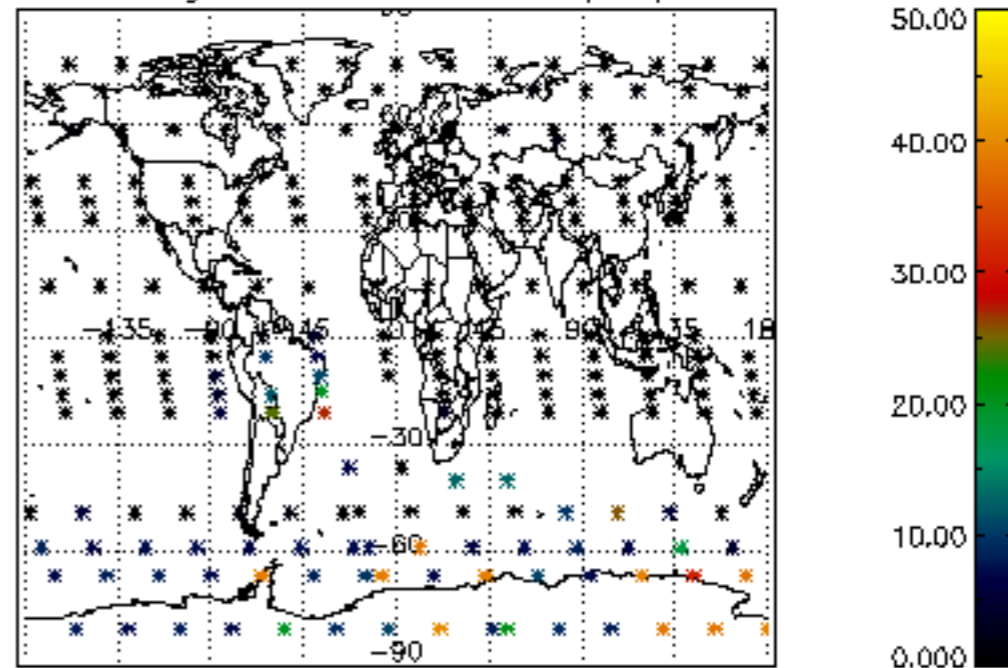
Percentage of datation errors per profile



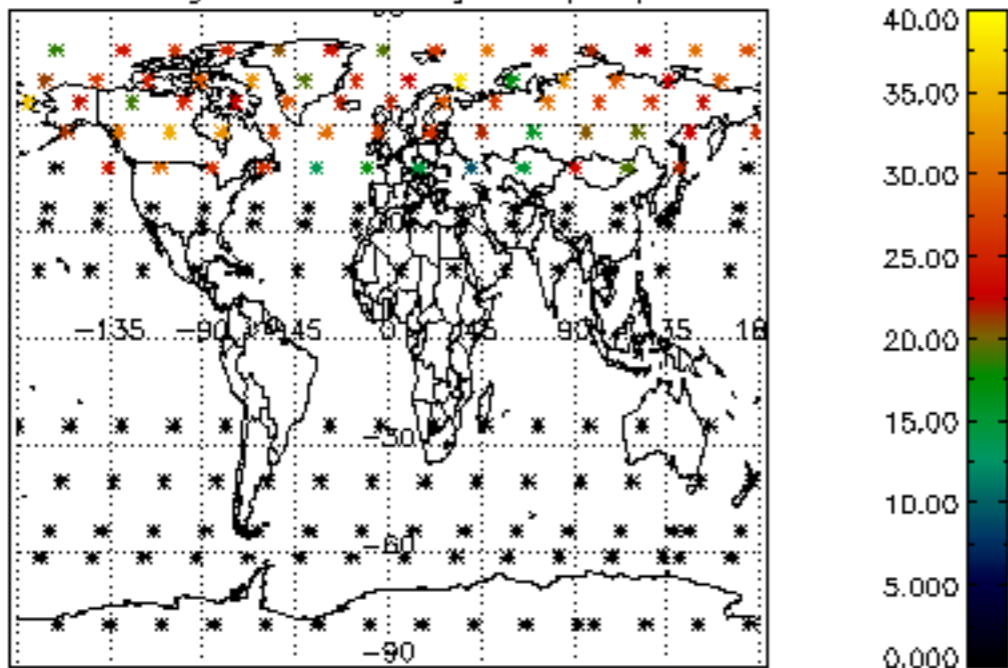
Percentage of star falling outside central band per profile



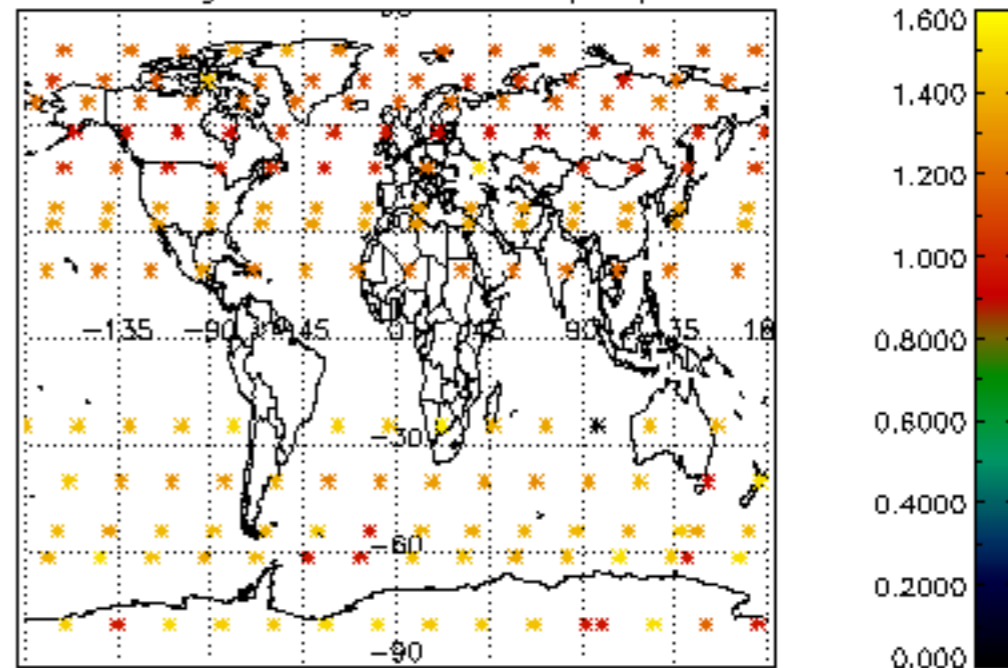
Percentage of saturation errors per profile



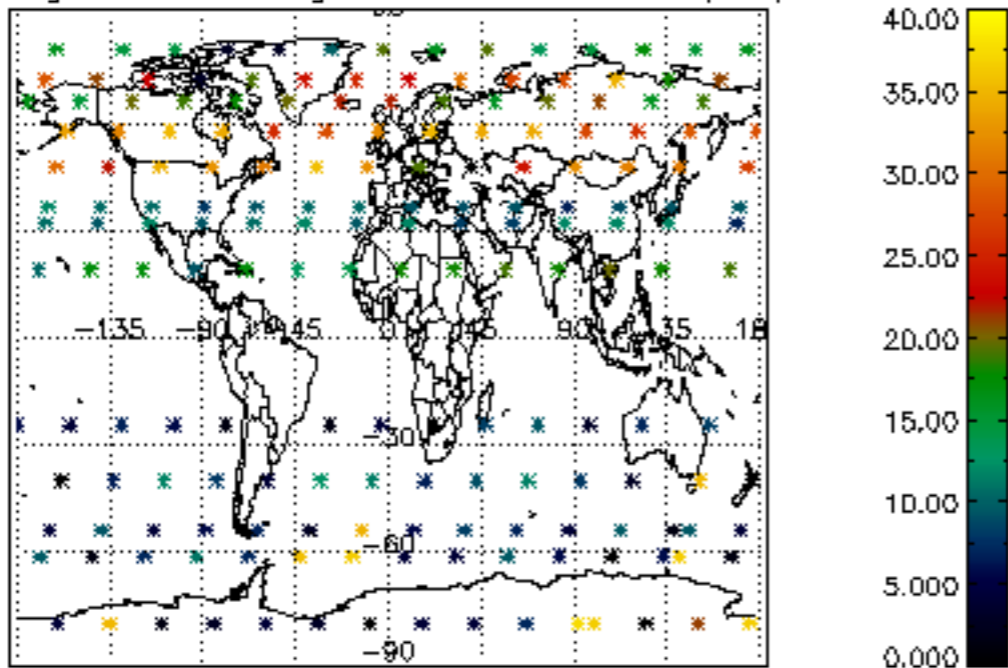
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

