

# 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	20APR2013 02:39:21
Data source version	GOMOS/6.01
Start time of products	25-12-2003 (25DEC2003 00:00:00)
Stop time of products	26-12-2003 (26DEC2003 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	492
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__2PRFIN20031225_000223_000000362022_00431_09503_0187.N1	25-DEC-2003 00:02:23	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	9503	No
2	GOM_NL__2PRFIN20031225_000349_000000442022_00431_09503_0188.N1	25-DEC-2003 00:03:49	Bright	43.500	55	79Zet UMa	2.0600	10200.	87	9503	No
3	GOM_NL__2PRFIN20031225_000555_000000442022_00431_09503_0189.N1	25-DEC-2003 00:05:55	Bright	43.500	39	85Eta UMa	1.8540	24000.	87	9503	No
4	GOM_NL__2PRFIN20031225_000936_000000422022_00431_09503_0190.N1	25-DEC-2003 00:09:36	Bright	41.500	180	27Gam Boo	3.0400	8000.0	83	9503	No
5	GOM_NL__2PRFIN20031225_001301_000000422022_00431_09503_0191.N1	25-DEC-2003 00:13:01	Bright	41.500	83		2.3780	11000.	83	9503	No
6	GOM_NL__2PRFIN20031225_001643_000000492022_00431_09503_0192.N1	25-DEC-2003 00:16:43	Bright	49.000	111	8Eta Boo	2.6800	6000.0	98	9503	No
7	GOM_NL__2PRFIN20031225_002140_000000752022_00431_09503_0193.N1	25-DEC-2003 00:21:40	Twilight	75.000	138	47Eps Vir	2.8280	4700.0	150	9503	No
8	GOM_NL__2PRFIN20031225_002527_000000422022_00431_09503_0194.N1	25-DEC-2003 00:25:27	Bright	42.000	122	9Alp2Lib	2.7470	9700.0	84	9503	No
9	GOM_NL__2PRFIN20031225_002739_000000592022_00431_09503_0195.N1	25-DEC-2003 00:27:39	Straylight	58.500	15	67Alp Vir	0.97600	28000.	117	9503	No
10	GOM_NL__2PRFIN20031225_003206_000000472022_00431_09503_0196.N1	25-DEC-2003 00:32:06	Dark	46.500	54	5The Cen	2.0550	4500.0	93	9503	No
11	GOM_NL__2PRFIN20031225_003347_000000412022_00431_09503_0197.N1	25-DEC-2003 00:33:47	Dark	40.500	78	Alp Lup	2.3040	28000.	81	9503	No
12	GOM_NL__2PRFIN20031225_004039_000000542022_00432_09504_0166.N1	25-DEC-2003 00:40:39	Dark	54.000	12	Alp1Cru	0.77500	30000.	108	9504	No
13	GOM_NL__2PRFIN20031225_004609_000000442022_00432_09504_0167.N1	25-DEC-2003 00:46:09	Dark	44.000	29	Bet Car	1.6720	10200.	88	9504	No
14	GOM_NL__2PRFIN20031225_004736_000000472022_00432_09504_0168.N1	25-DEC-2003 00:47:36	Dark	46.500	91	Kap Vel	2.4900	26000.	93	9504	No
15	GOM_NL__2PRFIN20031225_004859_000000522022_00432_09504_0169.N1	25-DEC-2003 00:48:59	Dark	51.500	41	Eps Car	1.8600	4100.0	103	9504	No
16	GOM_NL__2PRFIN20031225_005025_000000602022_00432_09504_0170.N1	25-DEC-2003 00:50:25	Dark	59.500	65	Lam Vel	2.2040	4400.0	119	9504	No
17	GOM_NL__2PRFIN20031225_005201_000000492022_00432_09504_0171.N1	25-DEC-2003 00:52:01	Dark	48.500	34	Gam2Vel	1.7930	23000.	97	9504	No
18	GOM_NL__2PRFIN20031225_005332_000000542022_00432_09504_0172.N1	25-DEC-2003 00:53:32	Dark	54.000	2	Alp Car	-0.73600	7000.0	108	9504	No
19	GOM_NL__2PRFIN20031225_005633_000000512022_00432_09504_0173.N1	25-DEC-2003 00:56:33	Dark	50.500	117	Pi Pup	2.7060	3800.0	101	9504	No
20	GOM_NL__2PRFIN20031225_005933_000000552022_00432_09504_0174.N1	25-DEC-2003 00:59:33	Straylight	55.000	23	21Eps CMa	1.5020	26000.	110	9504	No
21	GOM_NL__2PRFIN20031225_010113_000000502022_00432_09504_0175.N1	25-DEC-2003 01:01:13	Straylight	50.000	179	24Omi2CMa	3.0320	24000.	100	9504	No
22	GOM_NL__2PRFIN20031225_010339_000000512022_00432_09504_0176.N1	25-DEC-2003 01:03:39	Straylight	50.500	47	2Bet CMa	1.9760	28000.	101	9504	No
23	GOM_NL__2PRFIN20031225_010625_000000492022_00432_09504_0177.N1	25-DEC-2003 01:06:25	Straylight	48.500	56	53Kap Ori	2.0650	30000.	97	9504	No
24	GOM_NL__2PRFIN20031225_010758_000000452022_00432_09504_0178.N1	25-DEC-2003 01:07:58	Straylight	44.500	128	67Bet Eri	2.7840	9700.0	89	9504	No
25	GOM_NL__2PRFIN20031225_010917_000000482022_00432_09504_0179.N1	25-DEC-2003 01:09:17	Straylight	47.500	72	34Del Ori	2.2500	30000.	95	9504	No
26	GOM_NL__2PRFIN20031225_011147_000000592022_00432_09504_0180.N1	25-DEC-2003 01:11:47	Twilight	59.000	14	58Alp Ori	0.87000	3000.0	118	9504	No
27	GOM_NL__2PRFIN20031225_011414_000000522022_00432_09504_0181.N1	25-DEC-2003 01:14:14	Bright	52.000	13	87Alp Tau	0.86700	3800.0	104	9504	No
28	GOM_NL__2PRFIN20031225_011551_000000422022_00432_09504_0182.N1	25-DEC-2003 01:15:51	Bright	41.500	176	23Zet Tau	3.0200	22000.	83	9504	No
29	GOM_NL__2PRFIN20031225_011754_000000432022_00432_09504_0183.N1	25-DEC-2003 01:17:54	Bright	42.500	28	12Bet Tau	1.6500	15200.	85	9504	No
30	GOM_NL__2PRFIN20031225_012059_000000372022_00432_09504_0184.N1	25-DEC-2003 01:20:59	Bright	37.000	149	45Eps Per	2.8880	30000.	74	9504	No
31	GOM_NL__2PRFIN20031225_012252_000000442022_00432_09504_0185.N1	25-DEC-2003 01:22:52	Bright	43.500	6	13Alp Aur	0.080000	3400.0	87	9504	No
32	GOM_NL__2PRFIN20031225_012510_000000402022_00432_09504_0186.N1	25-DEC-2003 01:25:10	Bright	39.500	160	23Gam Per	2.9300	4700.0	79	9504	No
33	GOM_NL__2PRFIN20031225_012848_000000392022_00432_09504_0187.N1	25-DEC-2003 01:28:48	Bright	39.000	110	37Del Cas	2.6780	8900.0	78	9504	No
34	GOM_NL__2PRFIN20031225_013447_000000362022_00432_09504_0188.N1	25-DEC-2003 01:34:47	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	9504	No
35	GOM_NL__2PRFIN20031225_013923_000000402022_00432_09504_0189.N1	25-DEC-2003 01:39:23	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	9504	No
36	GOM_NL__2PRFIN20031225_014259_000000392022_00432_09504_0190.N1	25-DEC-2003 01:42:59	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	9504	No
37	GOM_NL__2PRFIN20031225_014424_000000442022_00432_09504_0191.N1	25-DEC-2003 01:44:24	Bright	44.000	55	79Zet UMa	2.0600	10200.	88	9504	No
38	GOM_NL__2PRFIN20031225_014631_000000432022_00432_09504_0192.N1	25-DEC-2003 01:46:31	Bright	43.000	39	85Eta UMa	1.8540	24000.	86	9504	No
39	GOM_NL__2PRFIN20031225_015012_000000412022_00432_09504_0193.N1	25-DEC-2003 01:50:12	Bright	40.500	180	27Gam Boo	3.0400	8000.0	81	9504	No
40	GOM_NL__2PRFIN20031225_015336_000000422022_00432_09504_0194.N1	25-DEC-2003 01:53:36	Bright	41.500	83		2.3780	11000.	83	9504	No
41	GOM_NL__2PRFIN20031225_015719_000000492022_00432_09504_0195.N1	25-DEC-2003 01:57:19	Bright	49.000	111	8Eta Boo	2.6800	6000.0	98	9504	No
42	GOM_NL__2PRFIN20031225_020217_000000692022_00432_09504_0196.N1	25-DEC-2003 02:02:17	Twilight	69.000	138	47Eps Vir	2.8280	4700.0	138	9504	No















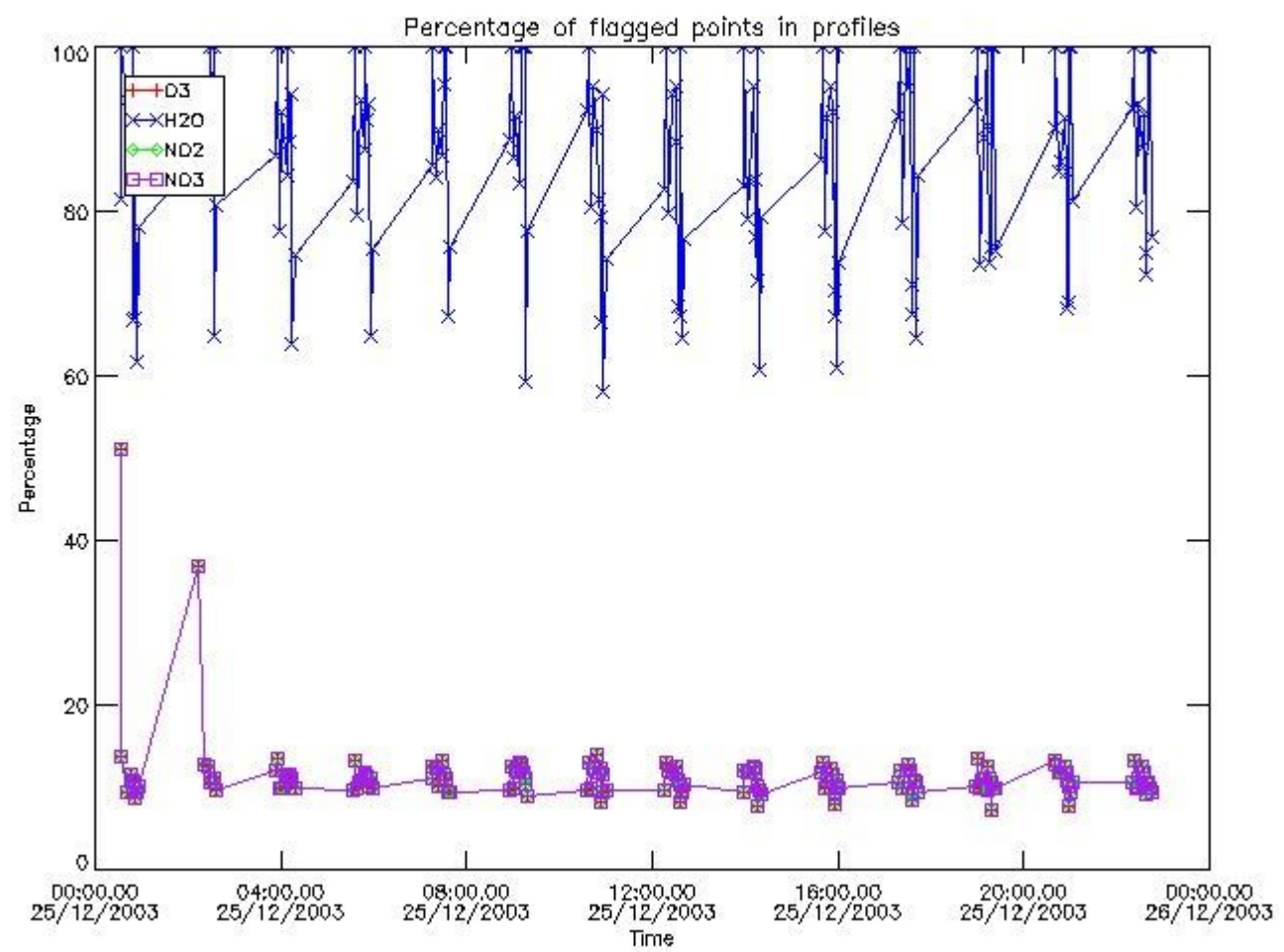


456	GOM_NL__2PRFIN20031225_221320_000000432022_00444_09516_0080.N1	25-DEC-2003 22:13:20	Bright	42.500	122	9Alp2Lib	2.7470	9700.0	85	9516	No
457	GOM_NL__2PRFIN20031225_221539_000000612022_00444_09516_0081.N1	25-DEC-2003 22:15:39	Straylight	61.000	15	67Alp Vir	0.97600	28000.	122	9516	No
458	GOM_NL__2PRFIN20031225_222001_000000482022_00444_09516_0082.N1	25-DEC-2003 22:20:01	Dark	48.000	54	5The Cen	2.0550	4500.0	96	9516	No
459	GOM_NL__2PRFIN20031225_222141_000000432022_00444_09516_0083.N1	25-DEC-2003 22:21:41	Dark	42.500	78	Alp Lup	2.3040	28000.	85	9516	No
460	GOM_NL__2PRFIN20031225_222504_000000522022_00444_09516_0084.N1	25-DEC-2003 22:25:04	Dark	52.000	4	Alp1Cen	-0.010000	5800.0	104	9516	No
461	GOM_NL__2PRFIN20031225_222835_000000512022_00445_09517_0194.N1	25-DEC-2003 22:28:35	Dark	50.500	12	Alp1Cru	0.77500	30000.	101	9517	No
462	GOM_NL__2PRFIN20031225_223336_000000412022_00445_09517_0195.N1	25-DEC-2003 22:33:36	Dark	41.000	159	Ups Car	2.9200	7200.0	82	9517	No
463	GOM_NL__2PRFIN20031225_223509_000000442022_00445_09517_0196.N1	25-DEC-2003 22:35:09	Dark	43.500	71	lot Car	2.2460	7700.0	87	9517	No
464	GOM_NL__2PRFIN20031225_223653_000000492022_00445_09517_0197.N1	25-DEC-2003 22:36:53	Dark	49.000	41	Eps Car	1.8600	4100.0	98	9517	No
465	GOM_NL__2PRFIN20031225_223823_000000662022_00445_09517_0198.N1	25-DEC-2003 22:38:23	Dark	66.000	65	Lam Vel	2.2040	4400.0	132	9517	No
466	GOM_NL__2PRFIN20031225_223956_000000482022_00445_09517_0199.N1	25-DEC-2003 22:39:56	Dark	48.000	34	Gam2Vel	1.7930	23000.	96	9517	No
467	GOM_NL__2PRFIN20031225_224208_000000522022_00445_09517_0200.N1	25-DEC-2003 22:42:08	Dark	52.000	70	Zet Pup	2.2460	39000.	104	9517	No
468	GOM_NL__2PRFIN20031225_224425_000000542022_00445_09517_0201.N1	25-DEC-2003 22:44:25	Dark	54.000	117	Pi Pup	2.7060	3800.0	108	9517	No
469	GOM_NL__2PRFIN20031225_224723_000000552022_00445_09517_0202.N1	25-DEC-2003 22:47:23	Straylight	55.000	23	21Eps CMa	1.5020	26000.	110	9517	No
470	GOM_NL__2PRFIN20031225_224903_000000522022_00445_09517_0203.N1	25-DEC-2003 22:49:03	Straylight	51.500	179	24Omi2CMa	3.0320	24000.	103	9517	No
471	GOM_NL__2PRFIN20031225_225142_000000592022_00445_09517_0204.N1	25-DEC-2003 22:51:42	Straylight	58.500	1	9Alp CMa	-1.4400	11000.	117	9517	No
472	GOM_NL__2PRFIN20031225_225451_000000522022_00445_09517_0205.N1	25-DEC-2003 22:54:51	Straylight	51.500	7	19Bet Ori	0.10000	14000.	103	9517	No
473	GOM_NL__2PRFIN20031225_225650_000000482022_00445_09517_0206.N1	25-DEC-2003 22:56:50	Straylight	47.500	30	46Eps Ori	1.6940	30000.	95	9517	No
474	GOM_NL__2PRFIN20031225_225934_000000552022_00445_09517_0207.N1	25-DEC-2003 22:59:34	Tw_i_and_stray	55.000	14	58Alp Ori	0.87000	3000.0	110	9517	No
475	GOM_NL__2PRFIN20031225_230142_000000932022_00445_09517_0208.N1	25-DEC-2003 23:01:42	Bright	92.500	8	10Alp CMi	0.40000	6500.0	185	9517	No
476	GOM_NL__2PRFIN20031225_230431_000000412022_00445_09517_0209.N1	25-DEC-2003 23:04:31	Bright	40.500	146	25Eta Tau	2.8730	15200.	81	9517	No
477	GOM_NL__2PRFIN20031225_230633_000000392022_00445_09517_0210.N1	25-DEC-2003 23:06:33	Bright	39.000	150	44Zet Per	2.8900	28000.	78	9517	No
478	GOM_NL__2PRFIN20031225_230847_000000372022_00445_09517_0211.N1	25-DEC-2003 23:08:47	Bright	36.500	149	45Eps Per	2.8880	30000.	73	9517	No
479	GOM_NL__2PRFIN20031225_231036_000000442022_00445_09517_0212.N1	25-DEC-2003 23:10:36	Bright	44.000	6	13Alp Aur	0.080000	3400.0	88	9517	No
480	GOM_NL__2PRFIN20031225_231300_000000402022_00445_09517_0213.N1	25-DEC-2003 23:13:00	Bright	40.000	160	23Gam Per	2.9300	4700.0	80	9517	No
481	GOM_NL__2PRFIN20031225_231641_000000402022_00445_09517_0214.N1	25-DEC-2003 23:16:41	Bright	39.500	110	37Del Cas	2.6780	8900.0	79	9517	No
482	GOM_NL__2PRFIN20031225_232234_000000362022_00445_09517_0215.N1	25-DEC-2003 23:22:34	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	9517	No
483	GOM_NL__2PRFIN20031225_232710_000000422022_00445_09517_0216.N1	25-DEC-2003 23:27:10	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	9517	No
484	GOM_NL__2PRFIN20031225_233047_000000382022_00445_09517_0217.N1	25-DEC-2003 23:30:47	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	9517	No
485	GOM_NL__2PRFIN20031225_233229_000000422022_00445_09517_0218.N1	25-DEC-2003 23:32:29	Bright	41.500	69	33Gam Dra	2.2310	3800.0	83	9517	No
486	GOM_NL__2PRFIN20031225_233417_000000442022_00445_09517_0219.N1	25-DEC-2003 23:34:17	Bright	44.000	39	85Eta UMa	1.8540	24000.	88	9517	No
487	GOM_NL__2PRFIN20031225_233800_000000412022_00445_09517_0220.N1	25-DEC-2003 23:38:00	Bright	40.500	180	27Gam Boo	3.0400	8000.0	81	9517	No
488	GOM_NL__2PRFIN20031225_234126_000000432022_00445_09517_0221.N1	25-DEC-2003 23:41:26	Bright	42.500	83		2.3780	11000.	85	9517	No
489	GOM_NL__2PRFIN20031225_234511_000000512022_00445_09517_0222.N1	25-DEC-2003 23:45:11	Bright	50.500	111	8Eta Boo	2.6800	6000.0	101	9517	No
490	GOM_NL__2PRFIN20031225_235018_000000752022_00445_09517_0223.N1	25-DEC-2003 23:50:18	Tw_i_and_stray	75.000	138	47Eps Vir	2.8280	4700.0	150	9517	No
491	GOM_NL__2PRFIN20031225_235356_000000442022_00445_09517_0224.N1	25-DEC-2003 23:53:56	Bright	43.500	122	9Alp2Lib	2.7470	9700.0	87	9517	No
492	GOM_NL__2PRFIN20031225_235617_000000602022_00445_09517_0225.N1	25-DEC-2003 23:56:17	Straylight	60.000	15	67Alp Vir	0.97600	28000.	120	9517	No

### 3. Quality information per product

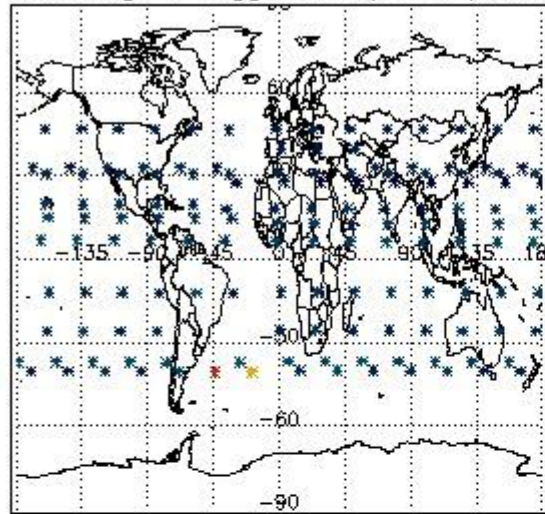
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

#### 3.1 Plot quality information per product (time dependant)

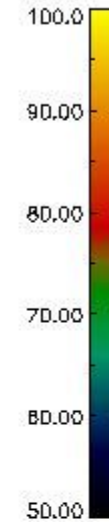
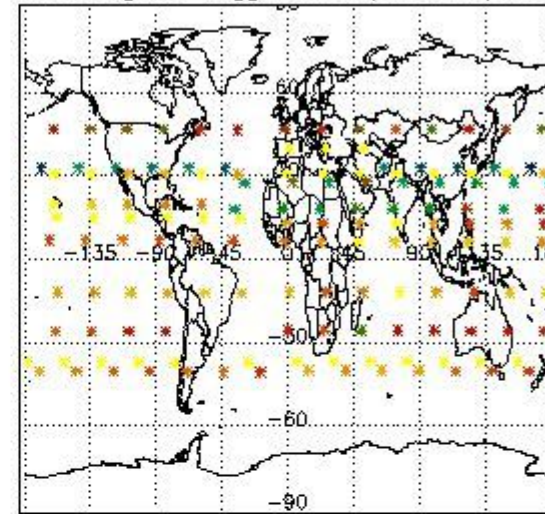


*3.2 Plot quality information per product (world map)*

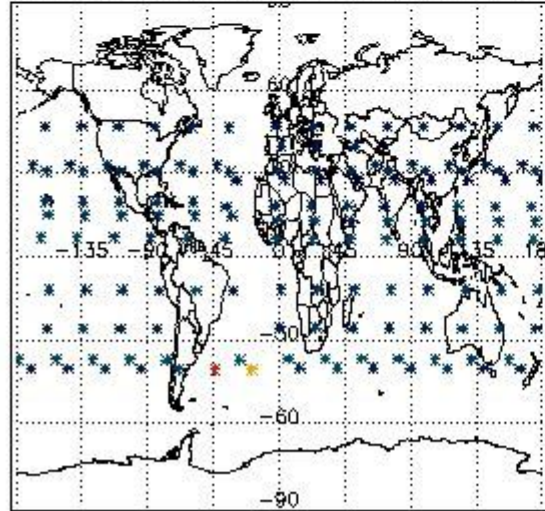
Percentage of flagged data per O3 profile



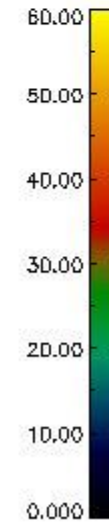
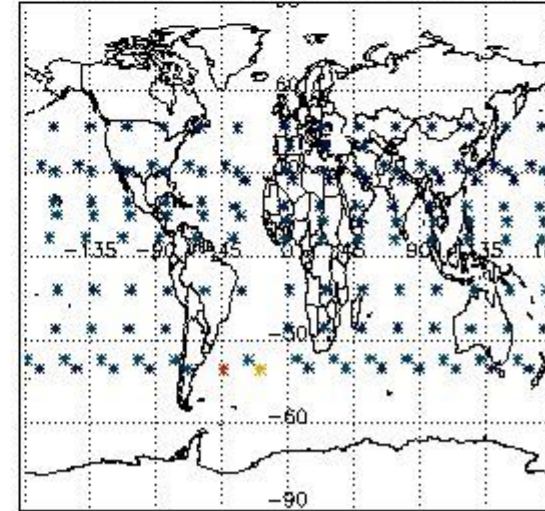
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

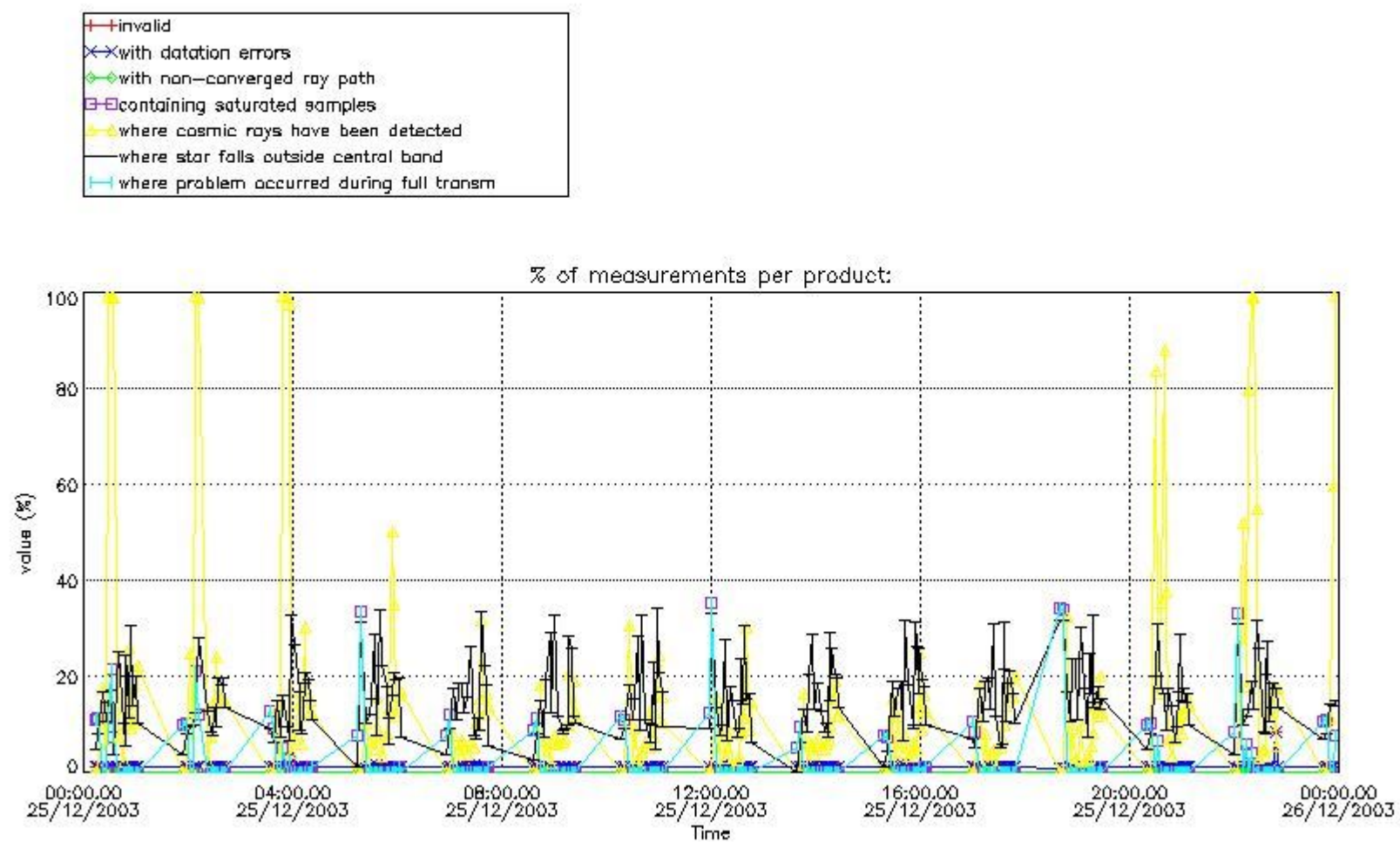


#### 4. Level 1 quality information per product

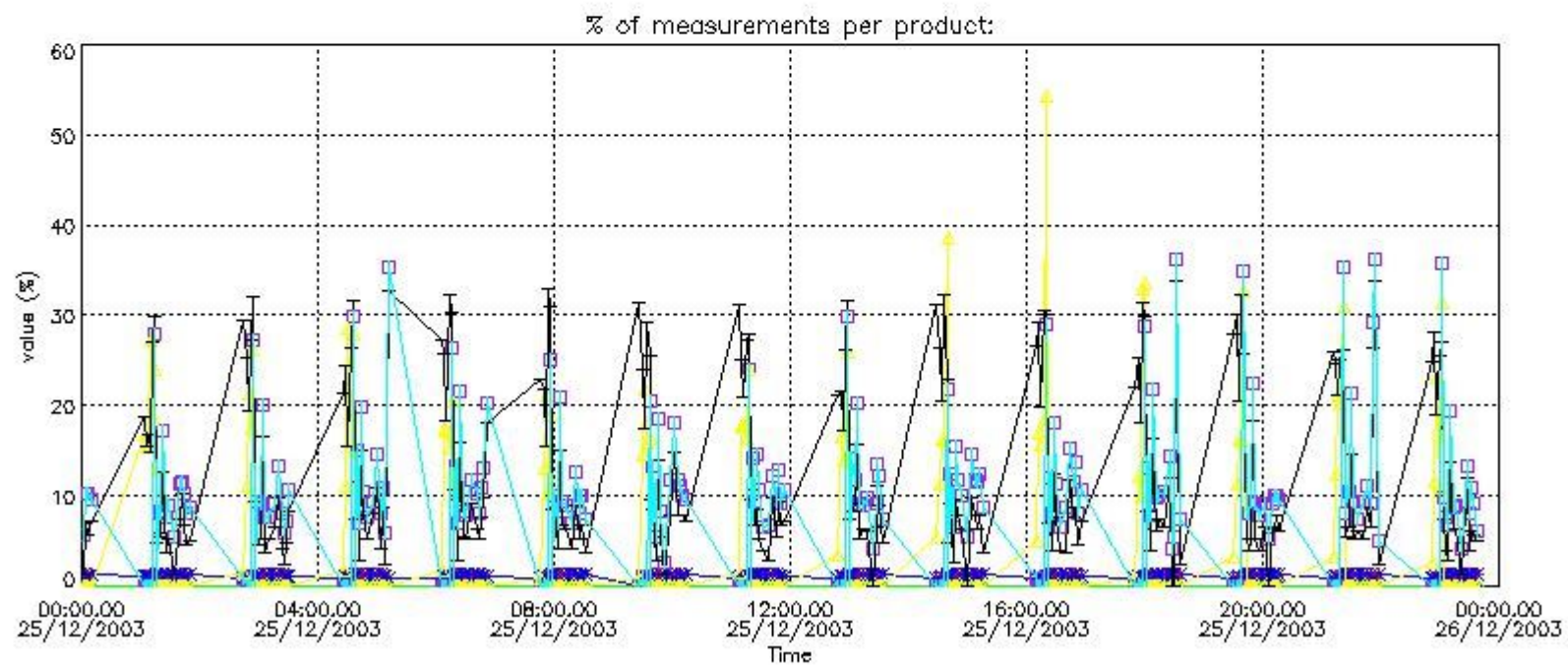
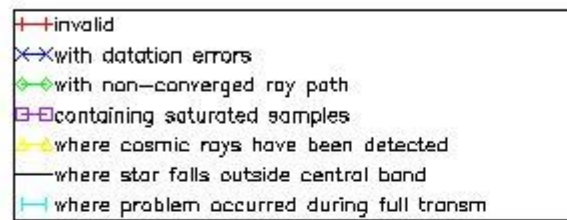
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

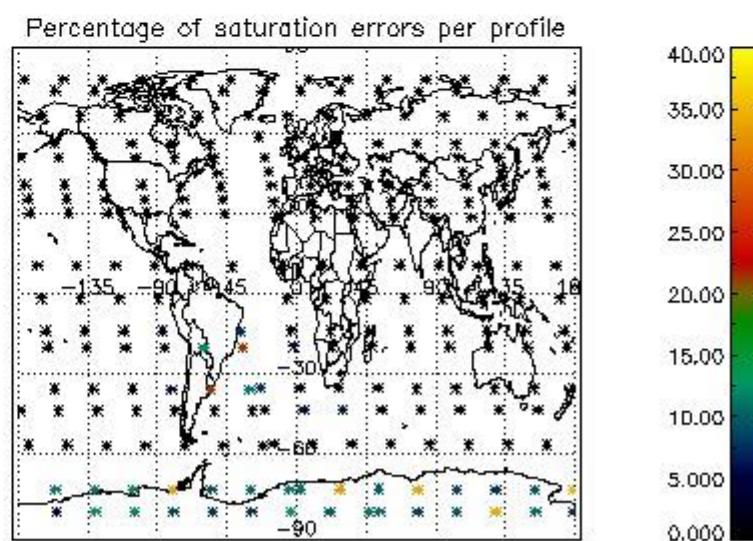
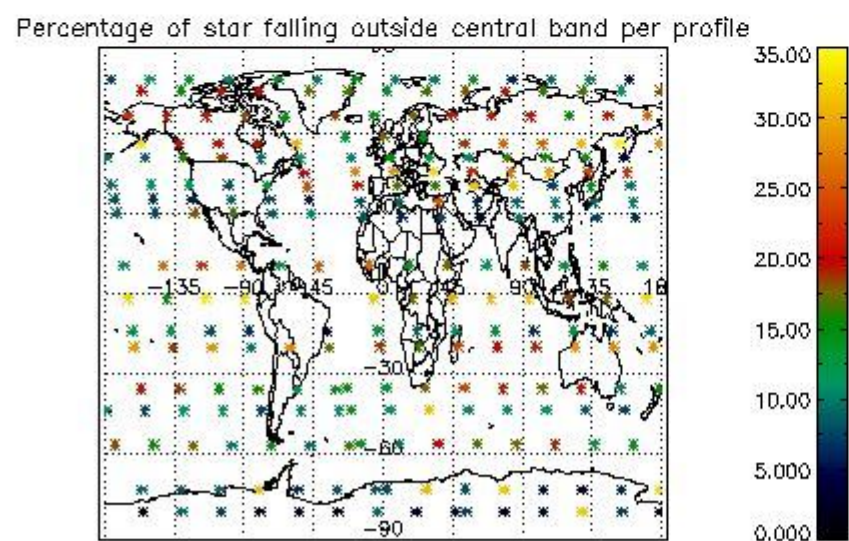
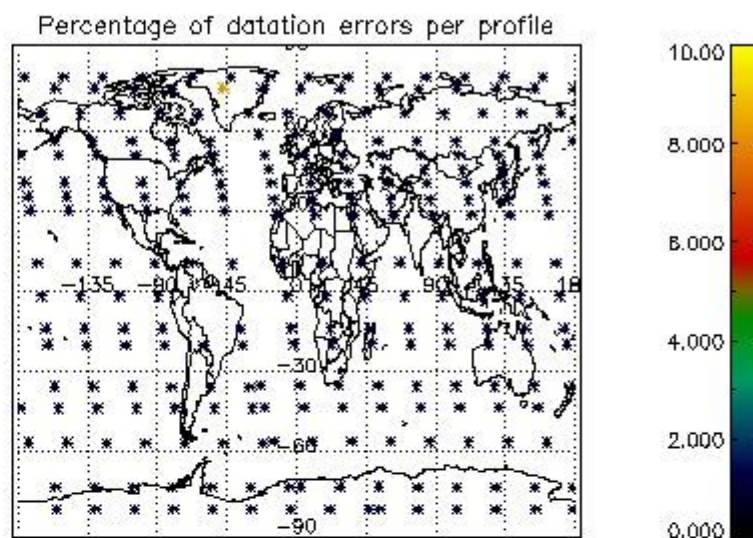
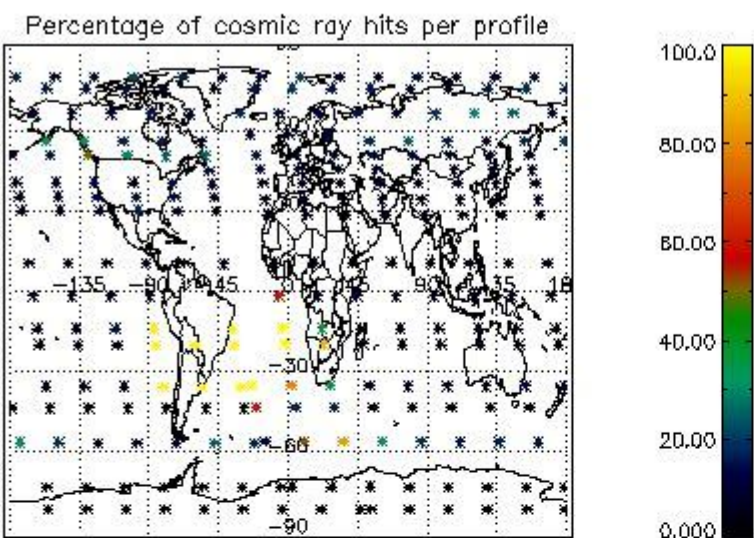


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

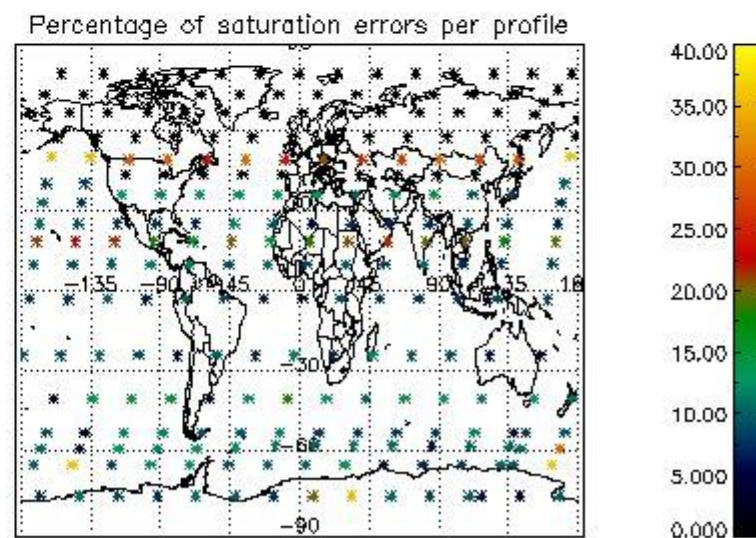
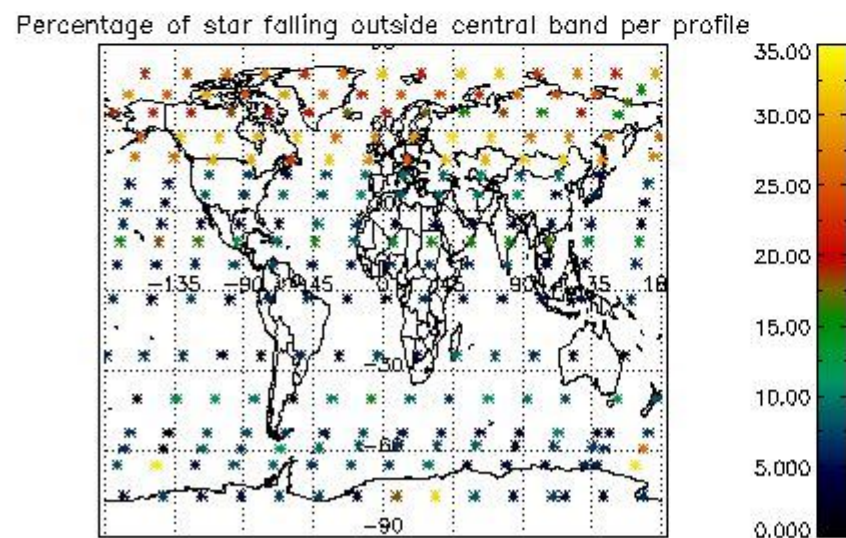
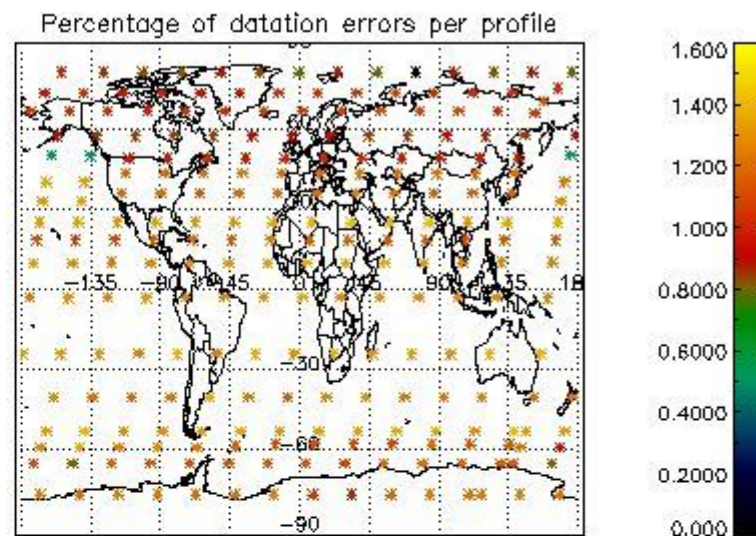
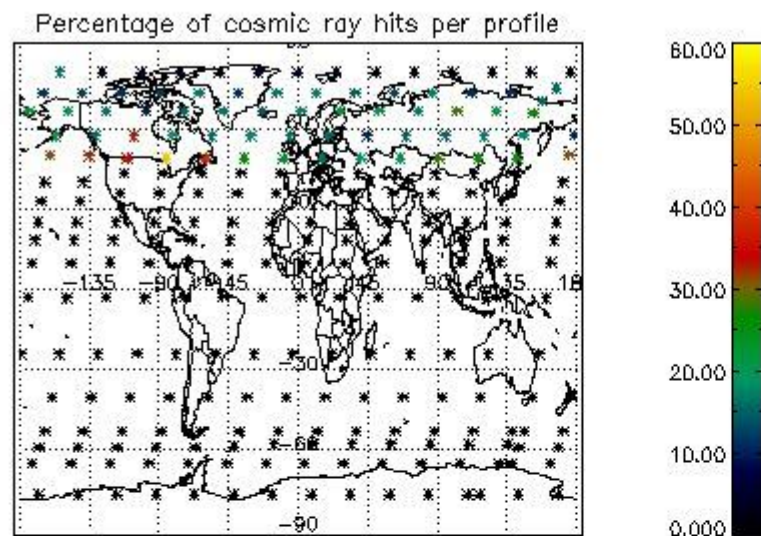


*4.2 Plot quality information per product coming from level 1b processing (world map)*

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



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



## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/o3\_std of the level 2 products. The table below shows the statistics for given STD ranges.

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

- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

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

- Products in dark limb illumination condition: GOM\_NL\_\_2P/NL\_SUMMARY\_QUALITY/obs\_ill\_cond=0
- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

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

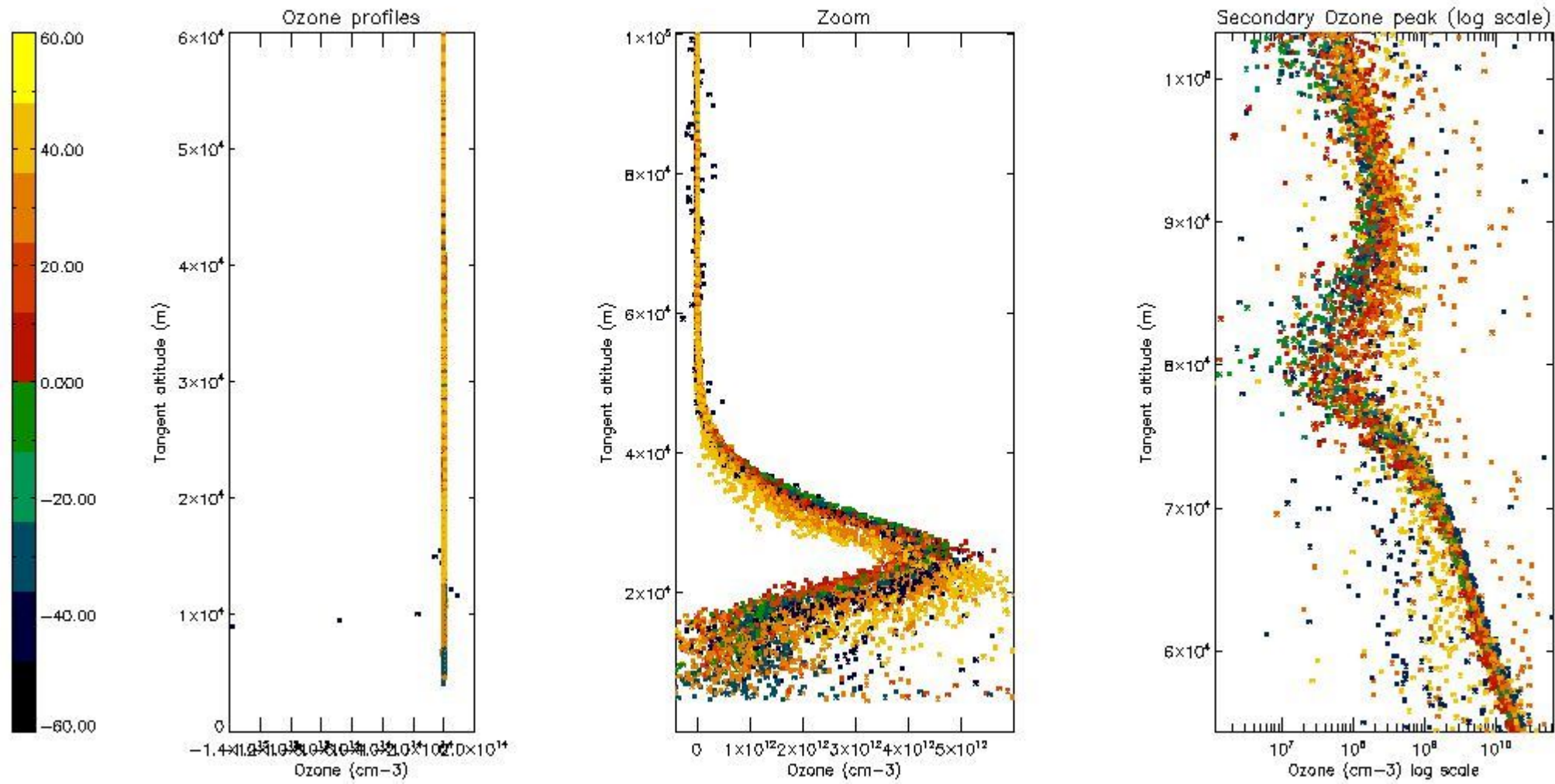
Criteria	% of total production
All STD	30
STD < 20	16



STD < 10	13
STD < 5	9

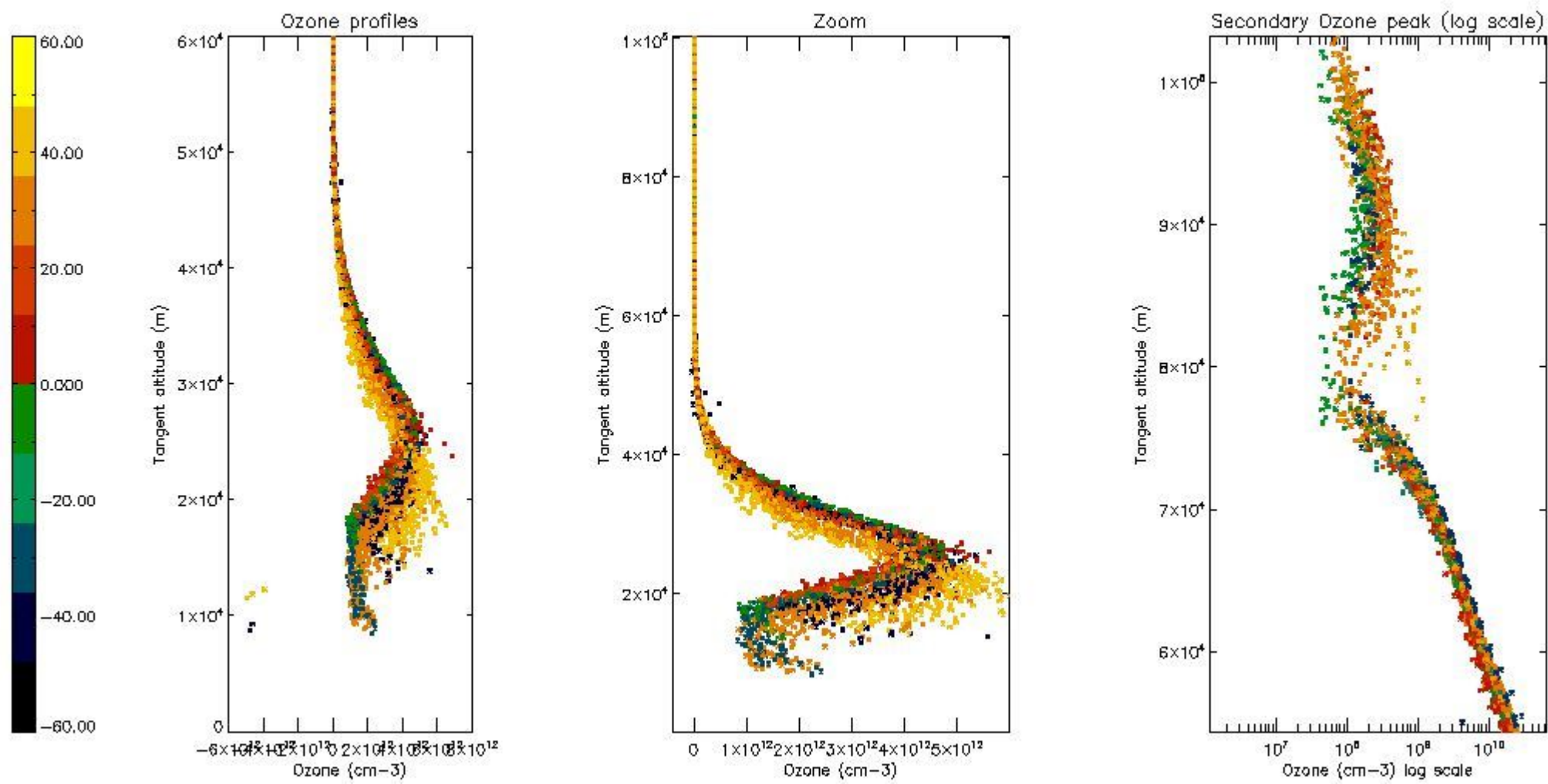
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



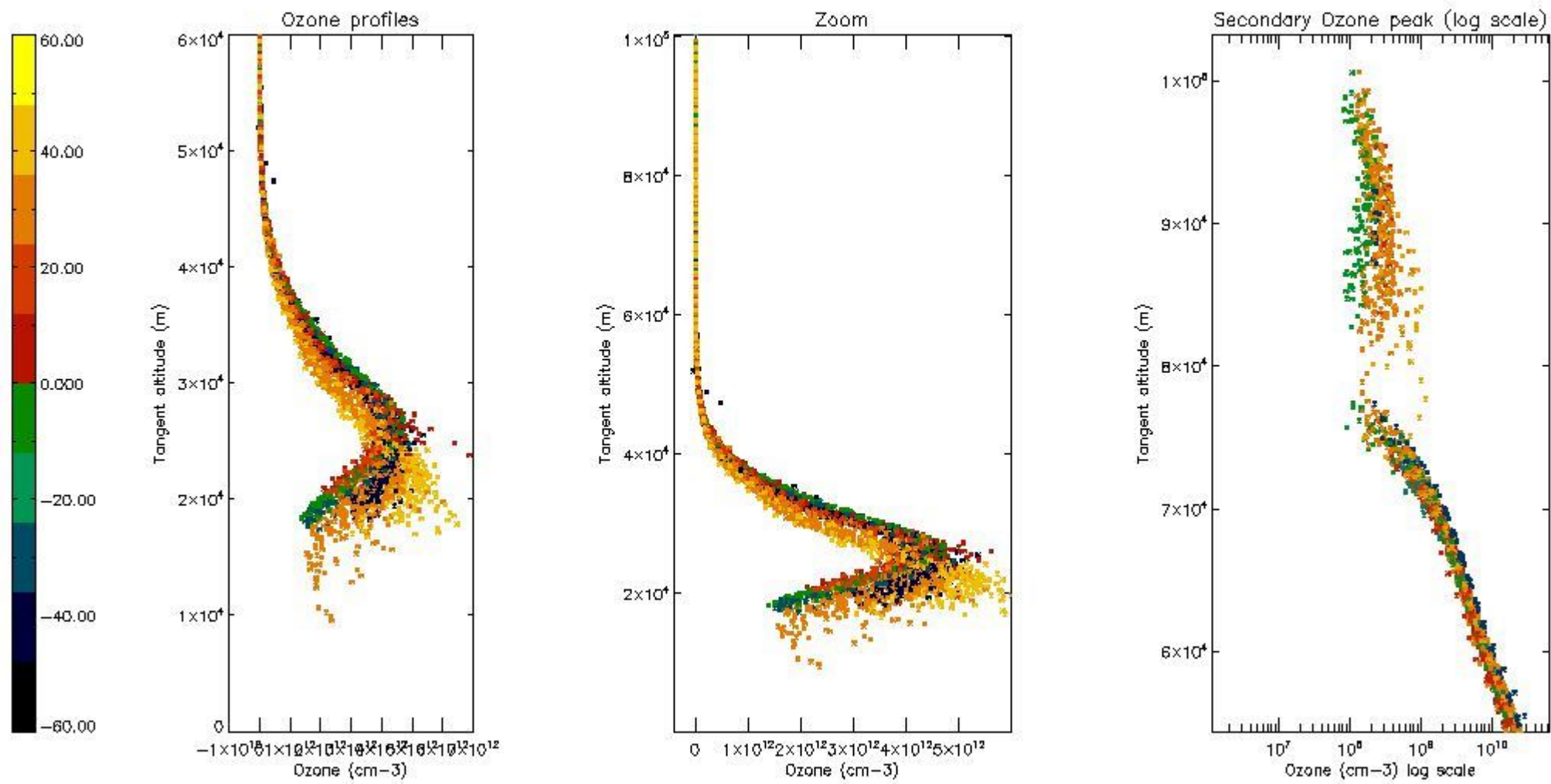
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



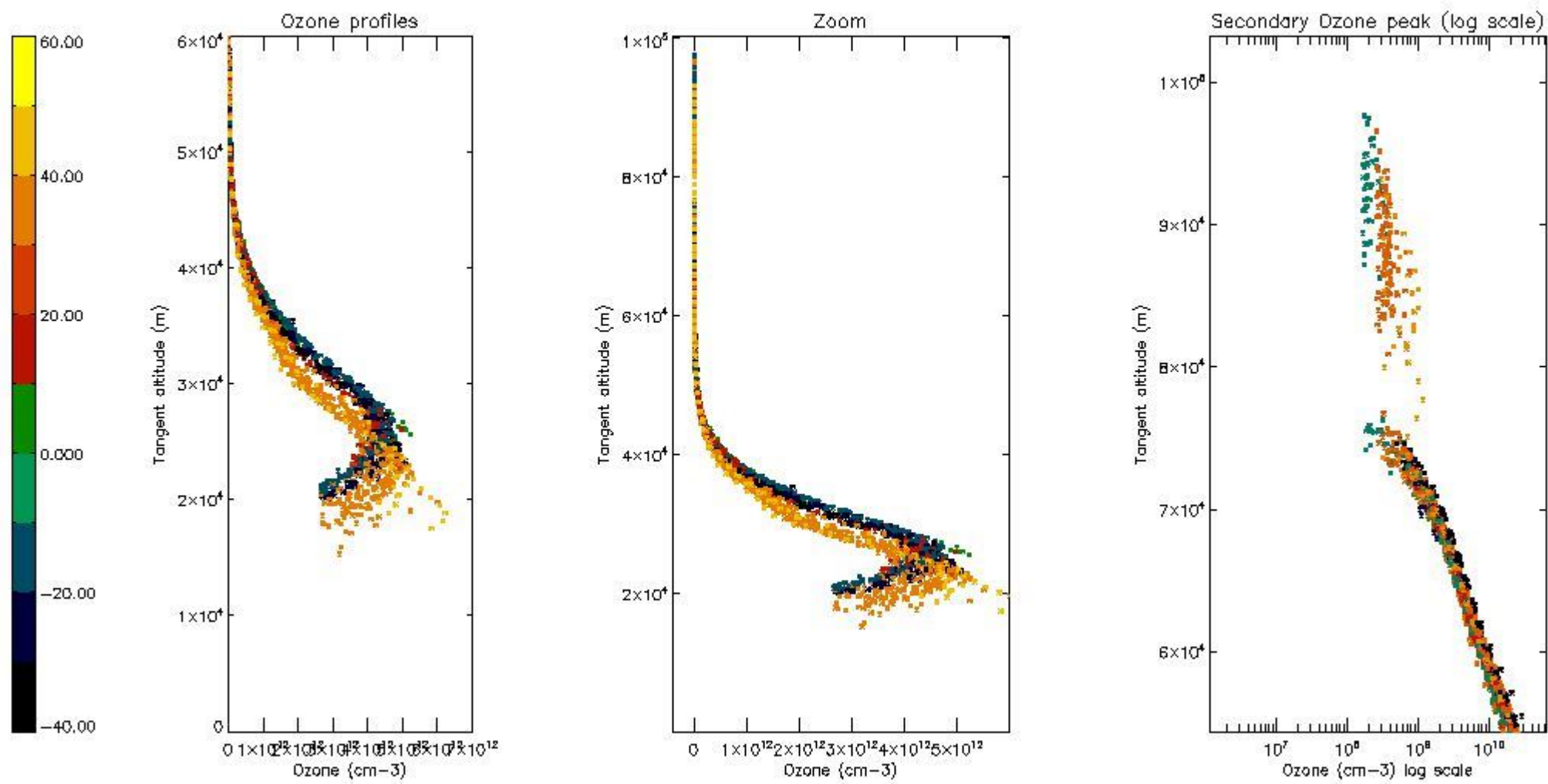
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



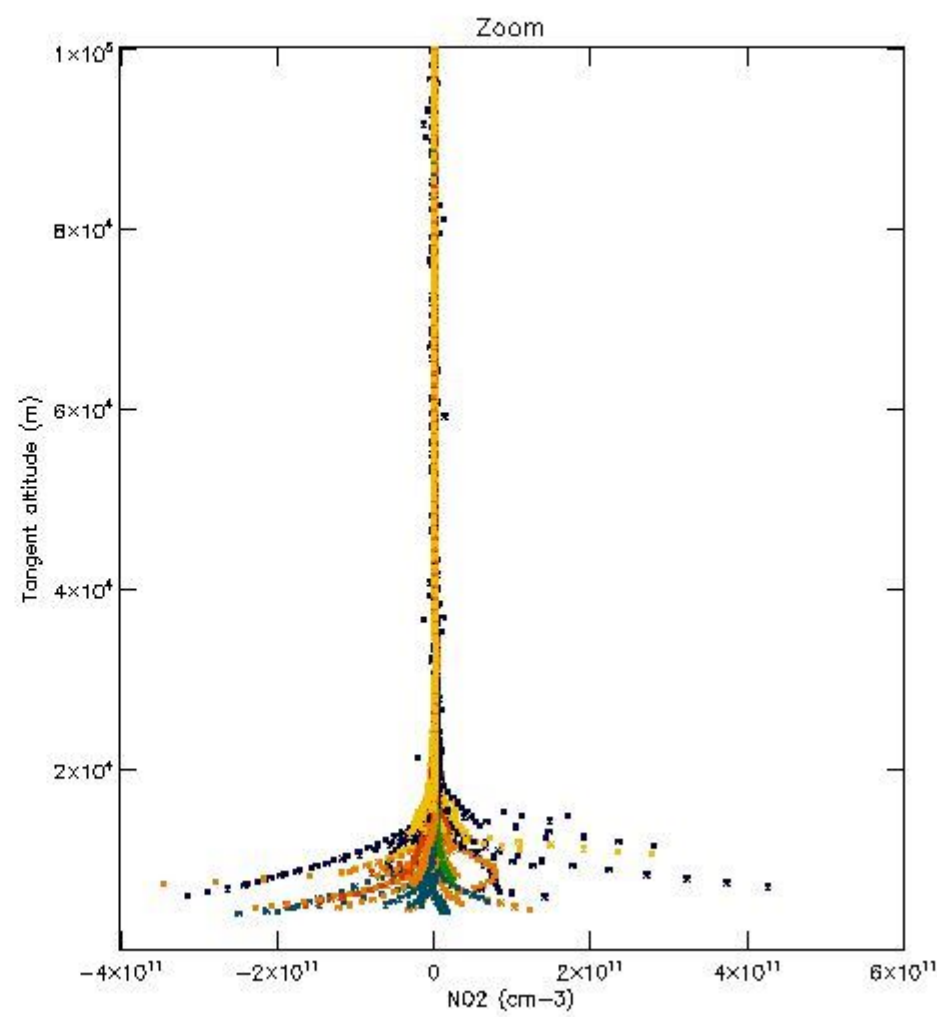
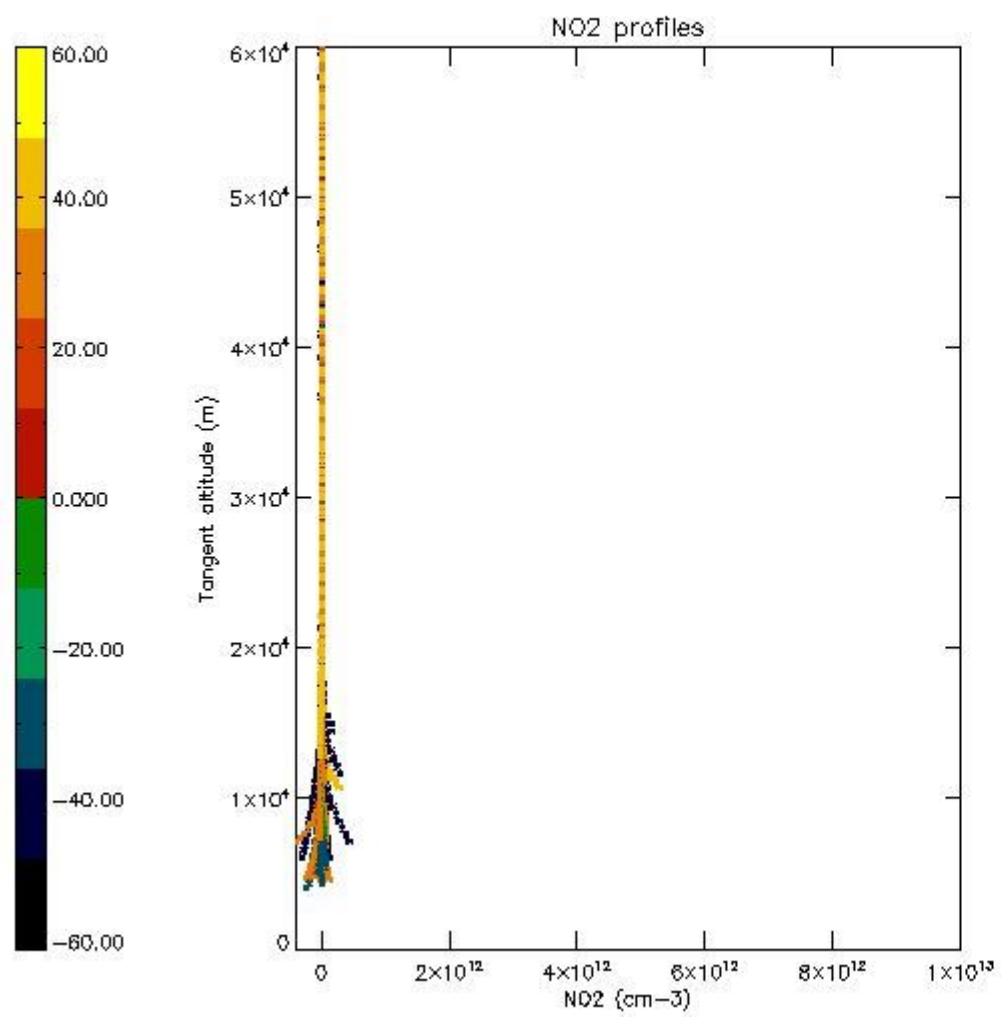
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



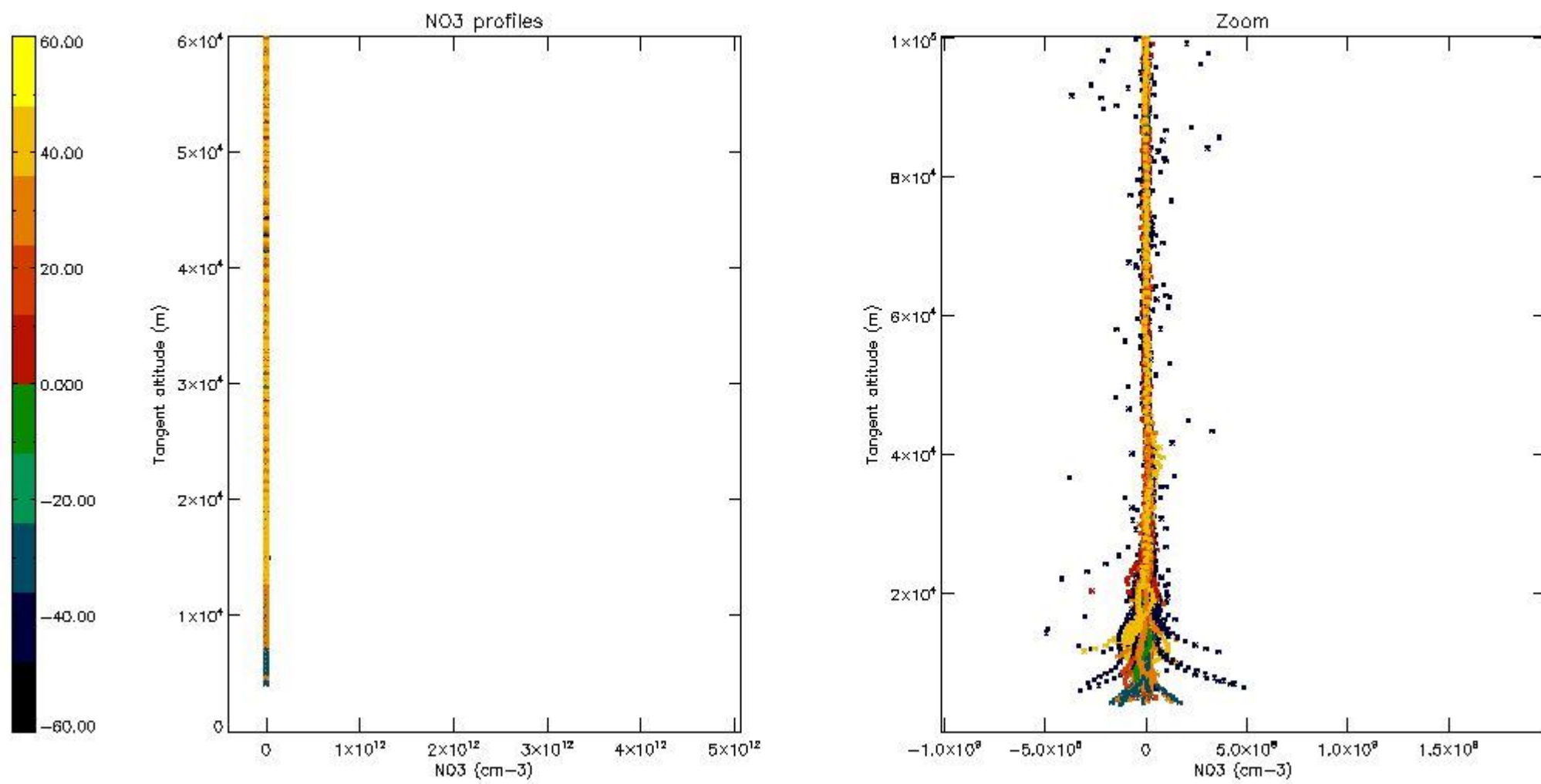
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



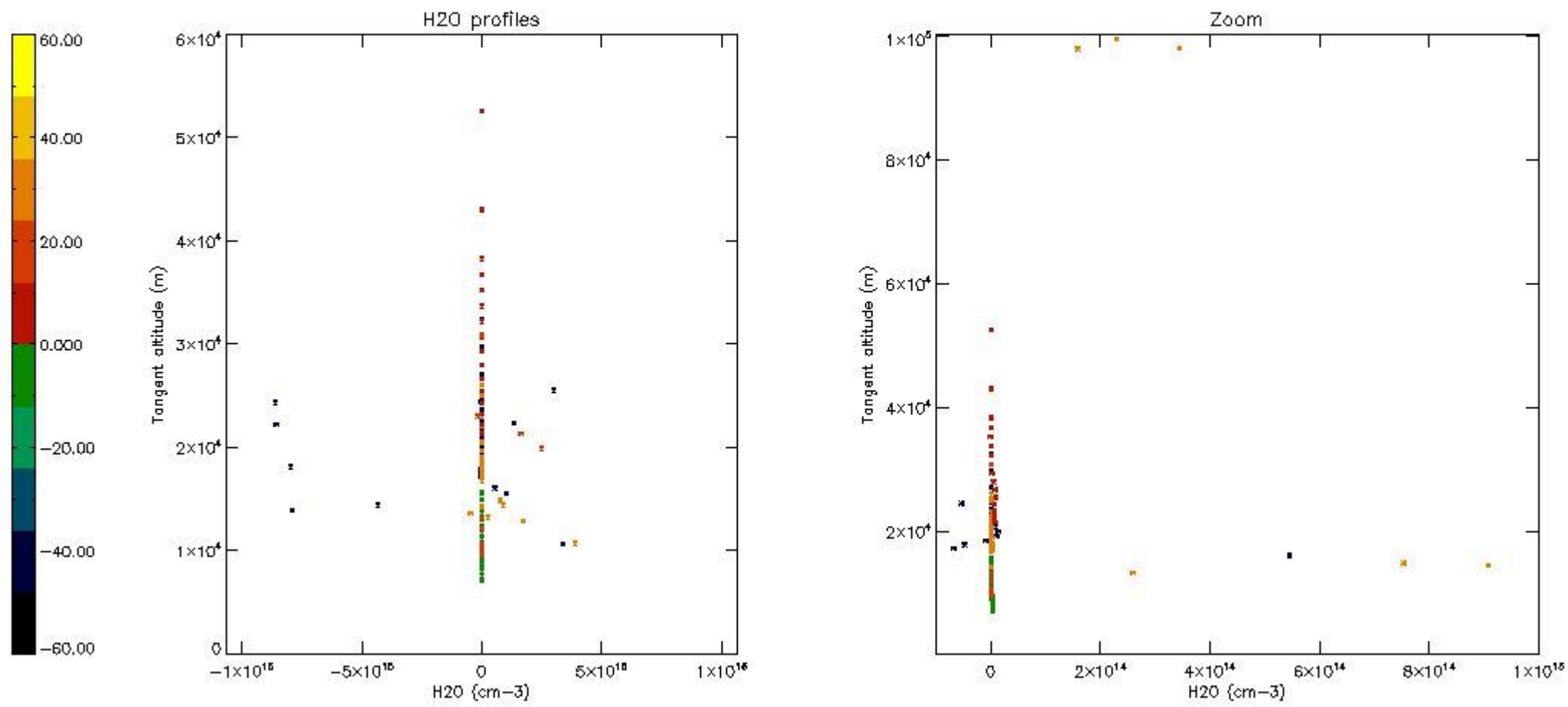
*5.7 Plot NO<sub>3</sub> profiles for all STD (dark without errors)*

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	25-DEC-2003 00:02:23
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	25-DEC-2003 00:02:23
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	25-DEC-2003 00:02:23

# GOMOS Level 2 Daily Report

## SUMMARY

### [1. General Info](#)

### [2. Summary of processed GOM\\_NL\\_2P products](#)

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

#### [3.1 Plot of level 2 quality information per product \(time dependant\)](#)

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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](#)

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#### [4.2 Plot of level 1 quality information per product \(world map\)](#)

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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	20APR2013 02:39:21
Data source version	GOMOS/6.01
Start time of products	25-12-2003 (25DEC2003 00:00:00)
Stop time of products	26-12-2003 (26DEC2003 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	492
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__2PRFIN20031225_000223_000000362022_00431_09503_0187.N1	25-DEC-2003 00:02:23	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	9503	No
2	GOM_NL__2PRFIN20031225_000349_000000442022_00431_09503_0188.N1	25-DEC-2003 00:03:49	Bright	43.500	55	79Zet UMa	2.0600	10200.	87	9503	No
3	GOM_NL__2PRFIN20031225_000555_000000442022_00431_09503_0189.N1	25-DEC-2003 00:05:55	Bright	43.500	39	85Eta UMa	1.8540	24000.	87	9503	No
4	GOM_NL__2PRFIN20031225_000936_000000422022_00431_09503_0190.N1	25-DEC-2003 00:09:36	Bright	41.500	180	27Gam Boo	3.0400	8000.0	83	9503	No
5	GOM_NL__2PRFIN20031225_001301_000000422022_00431_09503_0191.N1	25-DEC-2003 00:13:01	Bright	41.500	83		2.3780	11000.	83	9503	No
6	GOM_NL__2PRFIN20031225_001643_000000492022_00431_09503_0192.N1	25-DEC-2003 00:16:43	Bright	49.000	111	8Eta Boo	2.6800	6000.0	98	9503	No
7	GOM_NL__2PRFIN20031225_002140_000000752022_00431_09503_0193.N1	25-DEC-2003 00:21:40	Twilight	75.000	138	47Eps Vir	2.8280	4700.0	150	9503	No
8	GOM_NL__2PRFIN20031225_002527_000000422022_00431_09503_0194.N1	25-DEC-2003 00:25:27	Bright	42.000	122	9Alp2Lib	2.7470	9700.0	84	9503	No
9	GOM_NL__2PRFIN20031225_002739_000000592022_00431_09503_0195.N1	25-DEC-2003 00:27:39	Straylight	58.500	15	67Alp Vir	0.97600	28000.	117	9503	No
10	GOM_NL__2PRFIN20031225_003206_000000472022_00431_09503_0196.N1	25-DEC-2003 00:32:06	Dark	46.500	54	5The Cen	2.0550	4500.0	93	9503	No
11	GOM_NL__2PRFIN20031225_003347_000000412022_00431_09503_0197.N1	25-DEC-2003 00:33:47	Dark	40.500	78	Alp Lup	2.3040	28000.	81	9503	No
12	GOM_NL__2PRFIN20031225_004039_000000542022_00432_09504_0166.N1	25-DEC-2003 00:40:39	Dark	54.000	12	Alp1Cru	0.77500	30000.	108	9504	No
13	GOM_NL__2PRFIN20031225_004609_000000442022_00432_09504_0167.N1	25-DEC-2003 00:46:09	Dark	44.000	29	Bet Car	1.6720	10200.	88	9504	No
14	GOM_NL__2PRFIN20031225_004736_000000472022_00432_09504_0168.N1	25-DEC-2003 00:47:36	Dark	46.500	91	Kap Vel	2.4900	26000.	93	9504	No
15	GOM_NL__2PRFIN20031225_004859_000000522022_00432_09504_0169.N1	25-DEC-2003 00:48:59	Dark	51.500	41	Eps Car	1.8600	4100.0	103	9504	No
16	GOM_NL__2PRFIN20031225_005025_000000602022_00432_09504_0170.N1	25-DEC-2003 00:50:25	Dark	59.500	65	Lam Vel	2.2040	4400.0	119	9504	No
17	GOM_NL__2PRFIN20031225_005201_000000492022_00432_09504_0171.N1	25-DEC-2003 00:52:01	Dark	48.500	34	Gam2Vel	1.7930	23000.	97	9504	No
18	GOM_NL__2PRFIN20031225_005332_000000542022_00432_09504_0172.N1	25-DEC-2003 00:53:32	Dark	54.000	2	Alp Car	-0.73600	7000.0	108	9504	No
19	GOM_NL__2PRFIN20031225_005633_000000512022_00432_09504_0173.N1	25-DEC-2003 00:56:33	Dark	50.500	117	Pi Pup	2.7060	3800.0	101	9504	No
20	GOM_NL__2PRFIN20031225_005933_000000552022_00432_09504_0174.N1	25-DEC-2003 00:59:33	Straylight	55.000	23	21Eps CMa	1.5020	26000.	110	9504	No
21	GOM_NL__2PRFIN20031225_010113_000000502022_00432_09504_0175.N1	25-DEC-2003 01:01:13	Straylight	50.000	179	24Omi2CMa	3.0320	24000.	100	9504	No
22	GOM_NL__2PRFIN20031225_010339_000000512022_00432_09504_0176.N1	25-DEC-2003 01:03:39	Straylight	50.500	47	2Bet CMa	1.9760	28000.	101	9504	No
23	GOM_NL__2PRFIN20031225_010625_000000492022_00432_09504_0177.N1	25-DEC-2003 01:06:25	Straylight	48.500	56	53Kap Ori	2.0650	30000.	97	9504	No
24	GOM_NL__2PRFIN20031225_010758_000000452022_00432_09504_0178.N1	25-DEC-2003 01:07:58	Straylight	44.500	128	67Bet Eri	2.7840	9700.0	89	9504	No
25	GOM_NL__2PRFIN20031225_010917_000000482022_00432_09504_0179.N1	25-DEC-2003 01:09:17	Straylight	47.500	72	34Del Ori	2.2500	30000.	95	9504	No
26	GOM_NL__2PRFIN20031225_011147_000000592022_00432_09504_0180.N1	25-DEC-2003 01:11:47	Twilight	59.000	14	58Alp Ori	0.87000	3000.0	118	9504	No
27	GOM_NL__2PRFIN20031225_011414_000000522022_00432_09504_0181.N1	25-DEC-2003 01:14:14	Bright	52.000	13	87Alp Tau	0.86700	3800.0	104	9504	No
28	GOM_NL__2PRFIN20031225_011551_000000422022_00432_09504_0182.N1	25-DEC-2003 01:15:51	Bright	41.500	176	23Zet Tau	3.0200	22000.	83	9504	No
29	GOM_NL__2PRFIN20031225_011754_000000432022_00432_09504_0183.N1	25-DEC-2003 01:17:54	Bright	42.500	28	12Bet Tau	1.6500	15200.	85	9504	No
30	GOM_NL__2PRFIN20031225_012059_000000372022_00432_09504_0184.N1	25-DEC-2003 01:20:59	Bright	37.000	149	45Eps Per	2.8880	30000.	74	9504	No
31	GOM_NL__2PRFIN20031225_012252_000000442022_00432_09504_0185.N1	25-DEC-2003 01:22:52	Bright	43.500	6	13Alp Aur	0.080000	3400.0	87	9504	No
32	GOM_NL__2PRFIN20031225_012510_000000402022_00432_09504_0186.N1	25-DEC-2003 01:25:10	Bright	39.500	160	23Gam Per	2.9300	4700.0	79	9504	No
33	GOM_NL__2PRFIN20031225_012848_000000392022_00432_09504_0187.N1	25-DEC-2003 01:28:48	Bright	39.000	110	37Del Cas	2.6780	8900.0	78	9504	No
34	GOM_NL__2PRFIN20031225_013447_000000362022_00432_09504_0188.N1	25-DEC-2003 01:34:47	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	9504	No
35	GOM_NL__2PRFIN20031225_013923_000000402022_00432_09504_0189.N1	25-DEC-2003 01:39:23	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	9504	No
36	GOM_NL__2PRFIN20031225_014259_000000392022_00432_09504_0190.N1	25-DEC-2003 01:42:59	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	9504	No
37	GOM_NL__2PRFIN20031225_014424_000000442022_00432_09504_0191.N1	25-DEC-2003 01:44:24	Bright	44.000	55	79Zet UMa	2.0600	10200.	88	9504	No
38	GOM_NL__2PRFIN20031225_014631_000000432022_00432_09504_0192.N1	25-DEC-2003 01:46:31	Bright	43.000	39	85Eta UMa	1.8540	24000.	86	9504	No
39	GOM_NL__2PRFIN20031225_015012_000000412022_00432_09504_0193.N1	25-DEC-2003 01:50:12	Bright	40.500	180	27Gam Boo	3.0400	8000.0	81	9504	No
40	GOM_NL__2PRFIN20031225_015336_000000422022_00432_09504_0194.N1	25-DEC-2003 01:53:36	Bright	41.500	83		2.3780	11000.	83	9504	No
41	GOM_NL__2PRFIN20031225_015719_000000492022_00432_09504_0195.N1	25-DEC-2003 01:57:19	Bright	49.000	111	8Eta Boo	2.6800	6000.0	98	9504	No
42	GOM_NL__2PRFIN20031225_020217_000000692022_00432_09504_0196.N1	25-DEC-2003 02:02:17	Twilight	69.000	138	47Eps Vir	2.8280	4700.0	138	9504	No















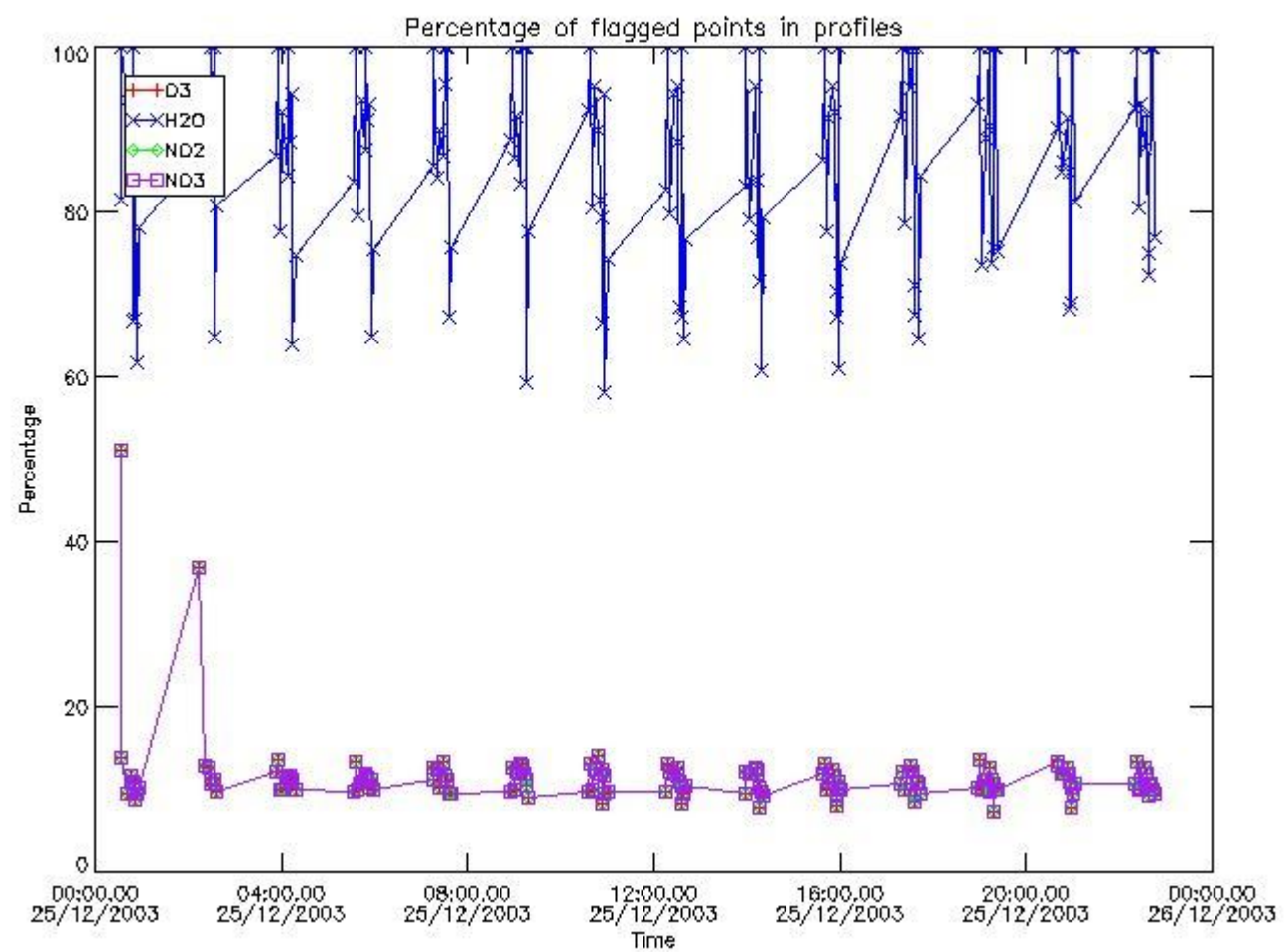


456	GOM_NL__2PRFIN20031225_221320_000000432022_00444_09516_0080.N1	25-DEC-2003 22:13:20	Bright	42.500	122	9Alp2Lib	2.7470	9700.0	85	9516	No
457	GOM_NL__2PRFIN20031225_221539_000000612022_00444_09516_0081.N1	25-DEC-2003 22:15:39	Straylight	61.000	15	67Alp Vir	0.97600	28000.	122	9516	No
458	GOM_NL__2PRFIN20031225_222001_000000482022_00444_09516_0082.N1	25-DEC-2003 22:20:01	Dark	48.000	54	5The Cen	2.0550	4500.0	96	9516	No
459	GOM_NL__2PRFIN20031225_222141_000000432022_00444_09516_0083.N1	25-DEC-2003 22:21:41	Dark	42.500	78	Alp Lup	2.3040	28000.	85	9516	No
460	GOM_NL__2PRFIN20031225_222504_000000522022_00444_09516_0084.N1	25-DEC-2003 22:25:04	Dark	52.000	4	Alp1Cen	-0.010000	5800.0	104	9516	No
461	GOM_NL__2PRFIN20031225_222835_000000512022_00445_09517_0194.N1	25-DEC-2003 22:28:35	Dark	50.500	12	Alp1Cru	0.77500	30000.	101	9517	No
462	GOM_NL__2PRFIN20031225_223336_000000412022_00445_09517_0195.N1	25-DEC-2003 22:33:36	Dark	41.000	159	Ups Car	2.9200	7200.0	82	9517	No
463	GOM_NL__2PRFIN20031225_223509_000000442022_00445_09517_0196.N1	25-DEC-2003 22:35:09	Dark	43.500	71	lot Car	2.2460	7700.0	87	9517	No
464	GOM_NL__2PRFIN20031225_223653_000000492022_00445_09517_0197.N1	25-DEC-2003 22:36:53	Dark	49.000	41	Eps Car	1.8600	4100.0	98	9517	No
465	GOM_NL__2PRFIN20031225_223823_000000662022_00445_09517_0198.N1	25-DEC-2003 22:38:23	Dark	66.000	65	Lam Vel	2.2040	4400.0	132	9517	No
466	GOM_NL__2PRFIN20031225_223956_000000482022_00445_09517_0199.N1	25-DEC-2003 22:39:56	Dark	48.000	34	Gam2Vel	1.7930	23000.	96	9517	No
467	GOM_NL__2PRFIN20031225_224208_000000522022_00445_09517_0200.N1	25-DEC-2003 22:42:08	Dark	52.000	70	Zet Pup	2.2460	39000.	104	9517	No
468	GOM_NL__2PRFIN20031225_224425_000000542022_00445_09517_0201.N1	25-DEC-2003 22:44:25	Dark	54.000	117	Pi Pup	2.7060	3800.0	108	9517	No
469	GOM_NL__2PRFIN20031225_224723_000000552022_00445_09517_0202.N1	25-DEC-2003 22:47:23	Straylight	55.000	23	21Eps CMa	1.5020	26000.	110	9517	No
470	GOM_NL__2PRFIN20031225_224903_000000522022_00445_09517_0203.N1	25-DEC-2003 22:49:03	Straylight	51.500	179	24Omi2CMa	3.0320	24000.	103	9517	No
471	GOM_NL__2PRFIN20031225_225142_000000592022_00445_09517_0204.N1	25-DEC-2003 22:51:42	Straylight	58.500	1	9Alp CMa	-1.4400	11000.	117	9517	No
472	GOM_NL__2PRFIN20031225_225451_000000522022_00445_09517_0205.N1	25-DEC-2003 22:54:51	Straylight	51.500	7	19Bet Ori	0.10000	14000.	103	9517	No
473	GOM_NL__2PRFIN20031225_225650_000000482022_00445_09517_0206.N1	25-DEC-2003 22:56:50	Straylight	47.500	30	46Eps Ori	1.6940	30000.	95	9517	No
474	GOM_NL__2PRFIN20031225_225934_000000552022_00445_09517_0207.N1	25-DEC-2003 22:59:34	Tw_i_and_stray	55.000	14	58Alp Ori	0.87000	3000.0	110	9517	No
475	GOM_NL__2PRFIN20031225_230142_000000932022_00445_09517_0208.N1	25-DEC-2003 23:01:42	Bright	92.500	8	10Alp CMi	0.40000	6500.0	185	9517	No
476	GOM_NL__2PRFIN20031225_230431_000000412022_00445_09517_0209.N1	25-DEC-2003 23:04:31	Bright	40.500	146	25Eta Tau	2.8730	15200.	81	9517	No
477	GOM_NL__2PRFIN20031225_230633_000000392022_00445_09517_0210.N1	25-DEC-2003 23:06:33	Bright	39.000	150	44Zet Per	2.8900	28000.	78	9517	No
478	GOM_NL__2PRFIN20031225_230847_000000372022_00445_09517_0211.N1	25-DEC-2003 23:08:47	Bright	36.500	149	45Eps Per	2.8880	30000.	73	9517	No
479	GOM_NL__2PRFIN20031225_231036_000000442022_00445_09517_0212.N1	25-DEC-2003 23:10:36	Bright	44.000	6	13Alp Aur	0.080000	3400.0	88	9517	No
480	GOM_NL__2PRFIN20031225_231300_000000402022_00445_09517_0213.N1	25-DEC-2003 23:13:00	Bright	40.000	160	23Gam Per	2.9300	4700.0	80	9517	No
481	GOM_NL__2PRFIN20031225_231641_000000402022_00445_09517_0214.N1	25-DEC-2003 23:16:41	Bright	39.500	110	37Del Cas	2.6780	8900.0	79	9517	No
482	GOM_NL__2PRFIN20031225_232234_000000362022_00445_09517_0215.N1	25-DEC-2003 23:22:34	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	9517	No
483	GOM_NL__2PRFIN20031225_232710_000000422022_00445_09517_0216.N1	25-DEC-2003 23:27:10	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	9517	No
484	GOM_NL__2PRFIN20031225_233047_000000382022_00445_09517_0217.N1	25-DEC-2003 23:30:47	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	9517	No
485	GOM_NL__2PRFIN20031225_233229_000000422022_00445_09517_0218.N1	25-DEC-2003 23:32:29	Bright	41.500	69	33Gam Dra	2.2310	3800.0	83	9517	No
486	GOM_NL__2PRFIN20031225_233417_000000442022_00445_09517_0219.N1	25-DEC-2003 23:34:17	Bright	44.000	39	85Eta UMa	1.8540	24000.	88	9517	No
487	GOM_NL__2PRFIN20031225_233800_000000412022_00445_09517_0220.N1	25-DEC-2003 23:38:00	Bright	40.500	180	27Gam Boo	3.0400	8000.0	81	9517	No
488	GOM_NL__2PRFIN20031225_234126_000000432022_00445_09517_0221.N1	25-DEC-2003 23:41:26	Bright	42.500	83		2.3780	11000.	85	9517	No
489	GOM_NL__2PRFIN20031225_234511_000000512022_00445_09517_0222.N1	25-DEC-2003 23:45:11	Bright	50.500	111	8Eta Boo	2.6800	6000.0	101	9517	No
490	GOM_NL__2PRFIN20031225_235018_000000752022_00445_09517_0223.N1	25-DEC-2003 23:50:18	Tw_i_and_stray	75.000	138	47Eps Vir	2.8280	4700.0	150	9517	No
491	GOM_NL__2PRFIN20031225_235356_000000442022_00445_09517_0224.N1	25-DEC-2003 23:53:56	Bright	43.500	122	9Alp2Lib	2.7470	9700.0	87	9517	No
492	GOM_NL__2PRFIN20031225_235617_000000602022_00445_09517_0225.N1	25-DEC-2003 23:56:17	Straylight	60.000	15	67Alp Vir	0.97600	28000.	120	9517	No

### 3. Quality information per product

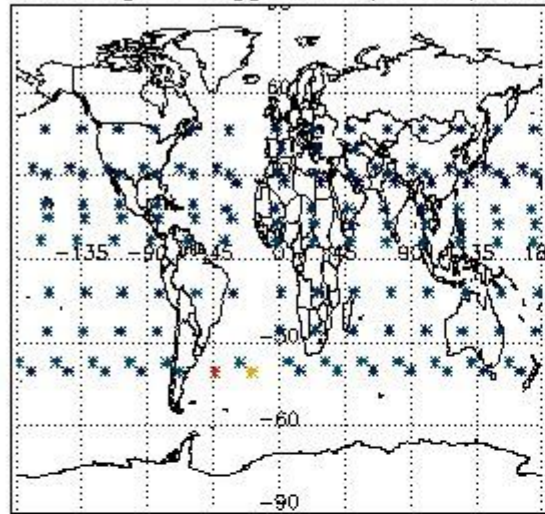
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

#### 3.1 Plot quality information per product (time dependant)

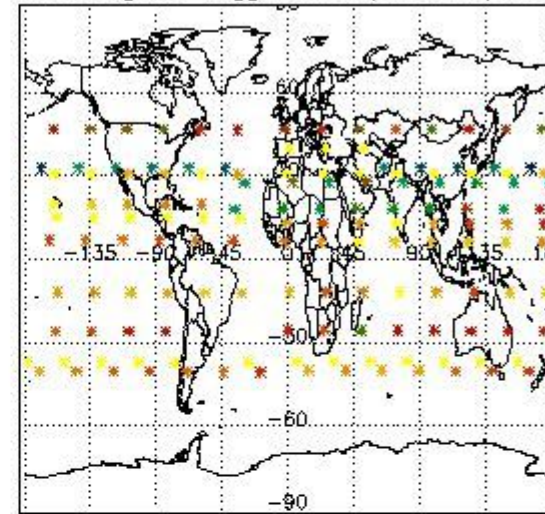


*3.2 Plot quality information per product (world map)*

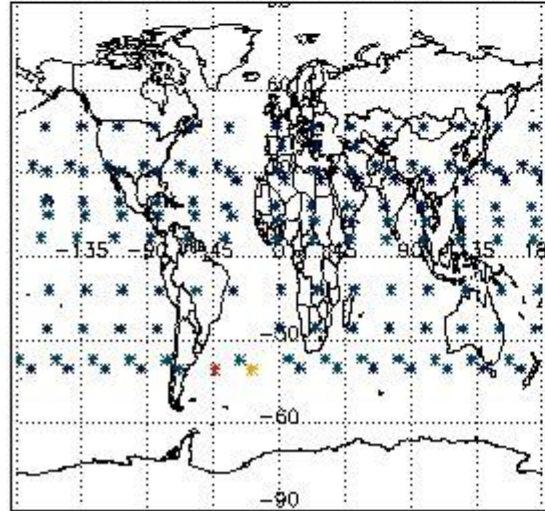
Percentage of flagged data per O3 profile



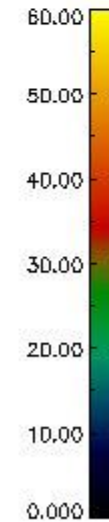
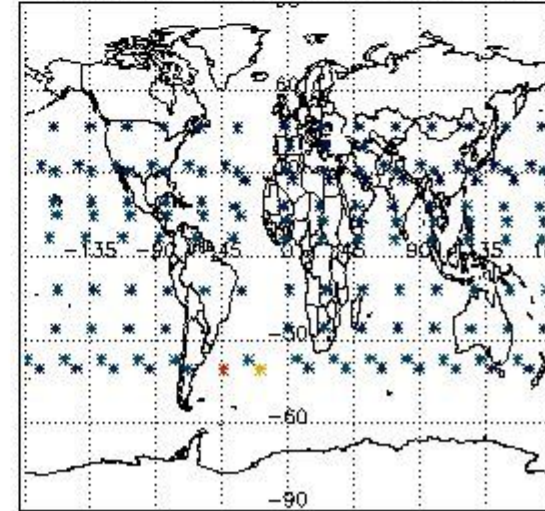
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

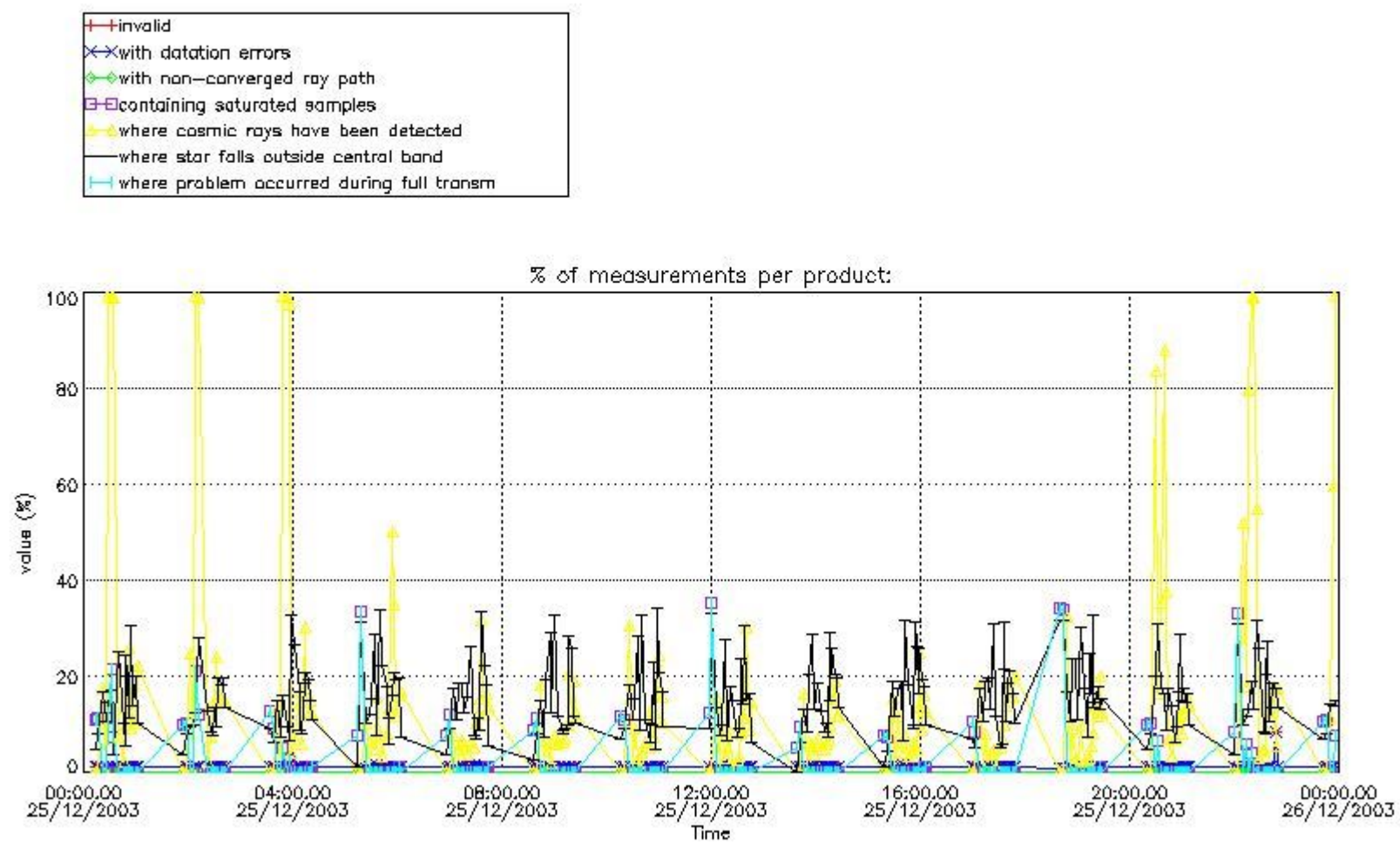


#### 4. Level 1 quality information per product

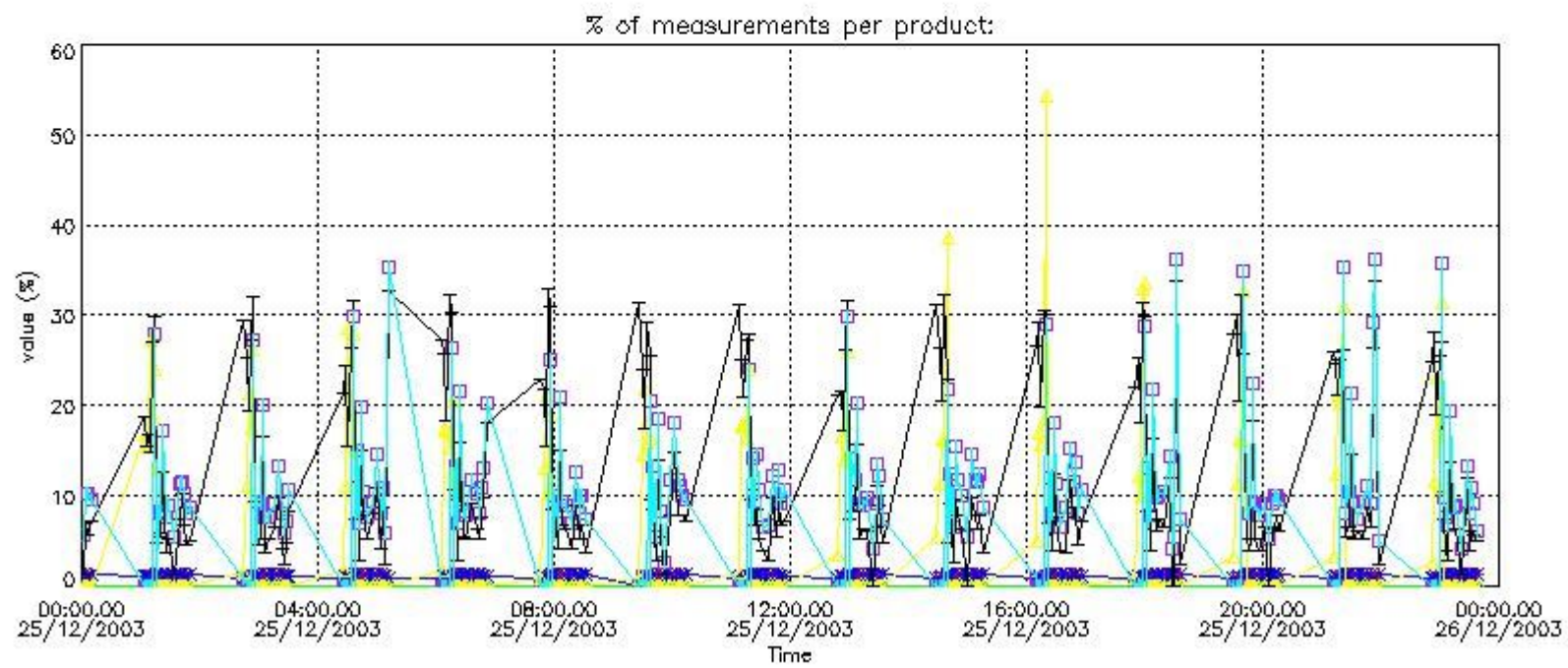
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

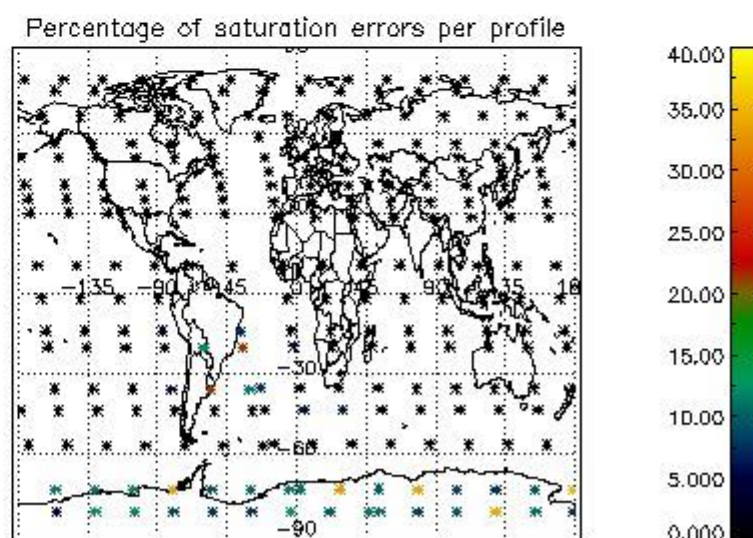
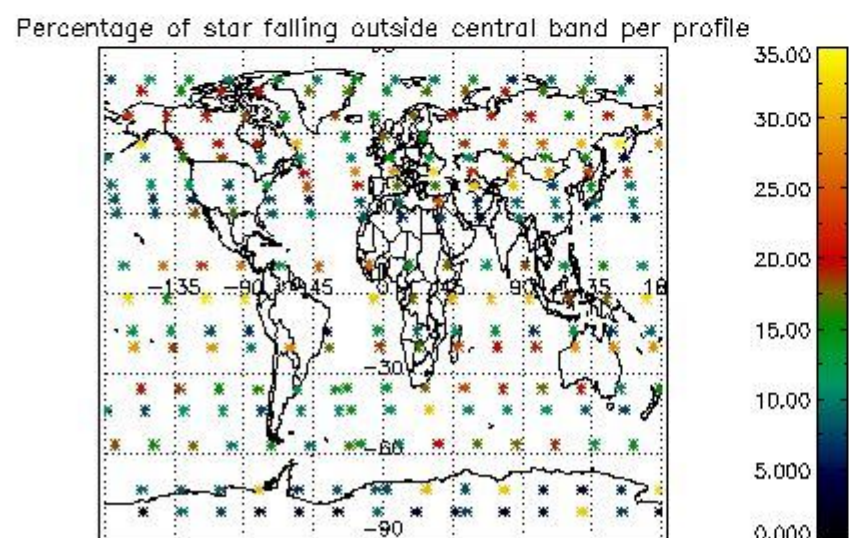
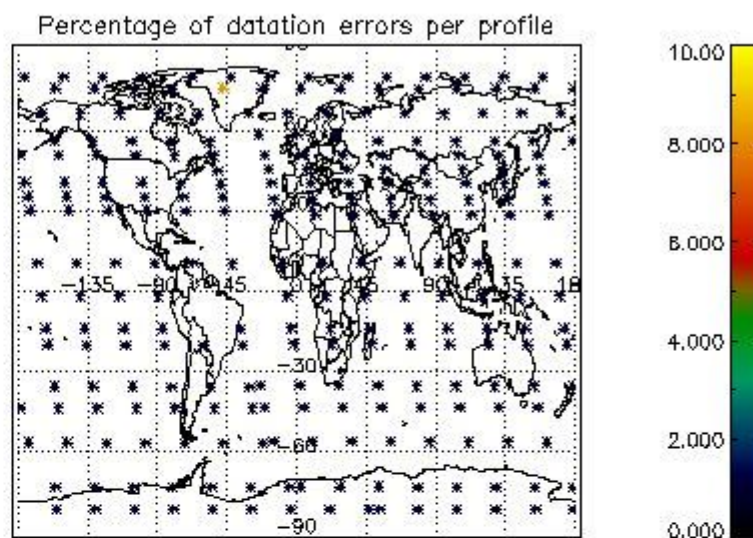
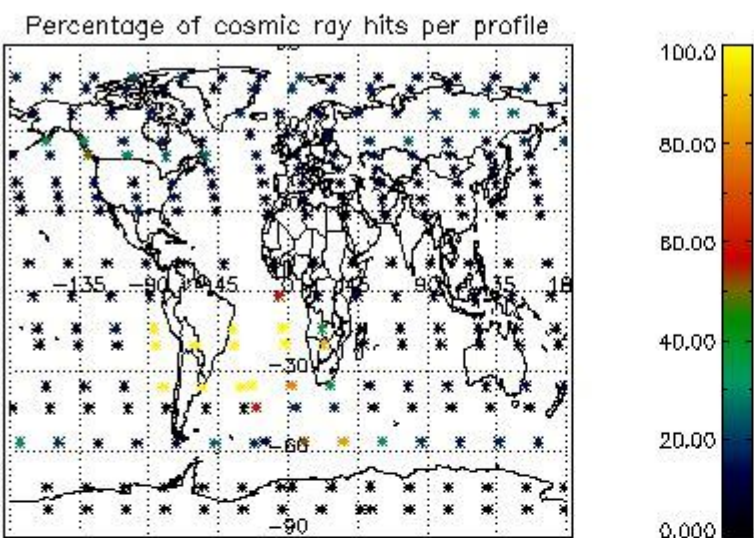


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

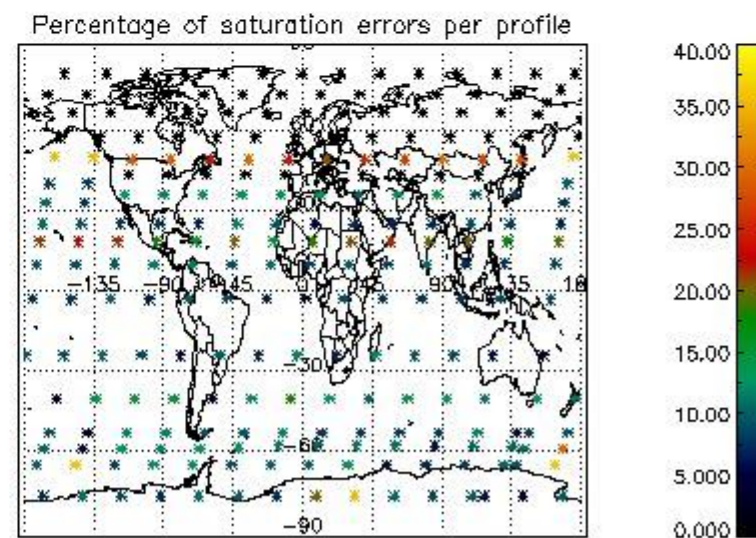
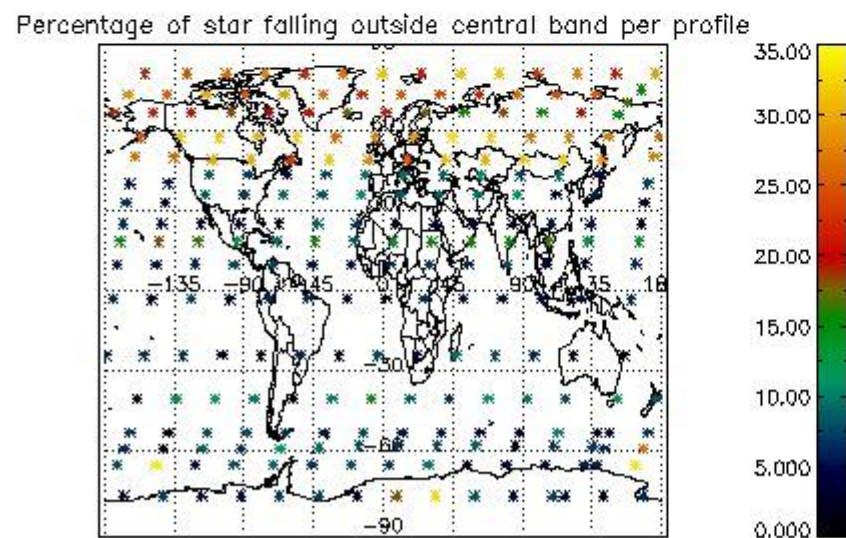
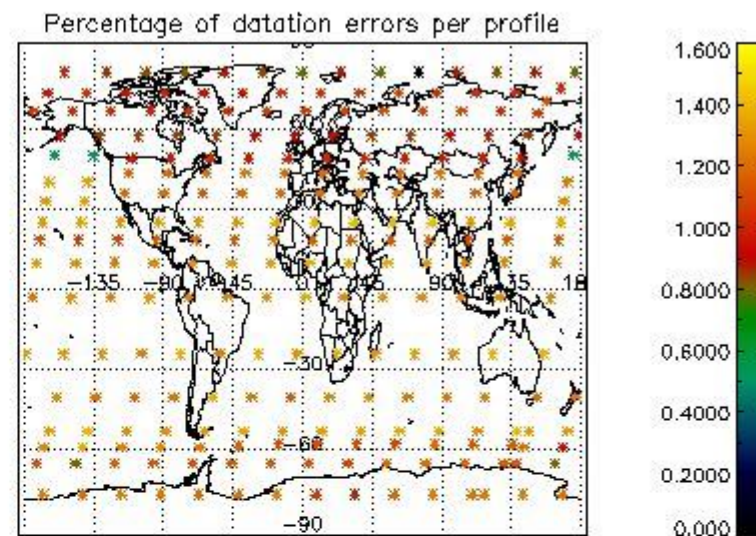
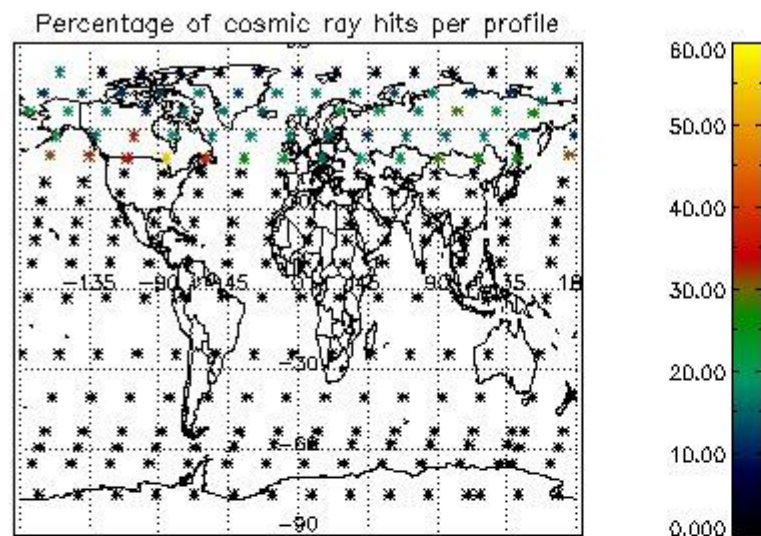


*4.2 Plot quality information per product coming from level 1b processing (world map)*

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



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



## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/o3\_std of the level 2 products. The table below shows the statistics for given STD ranges.

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

- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

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

- Products in dark limb illumination condition: GOM\_NL\_\_2P/NL\_SUMMARY\_QUALITY/obs\_ill\_cond=0
- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

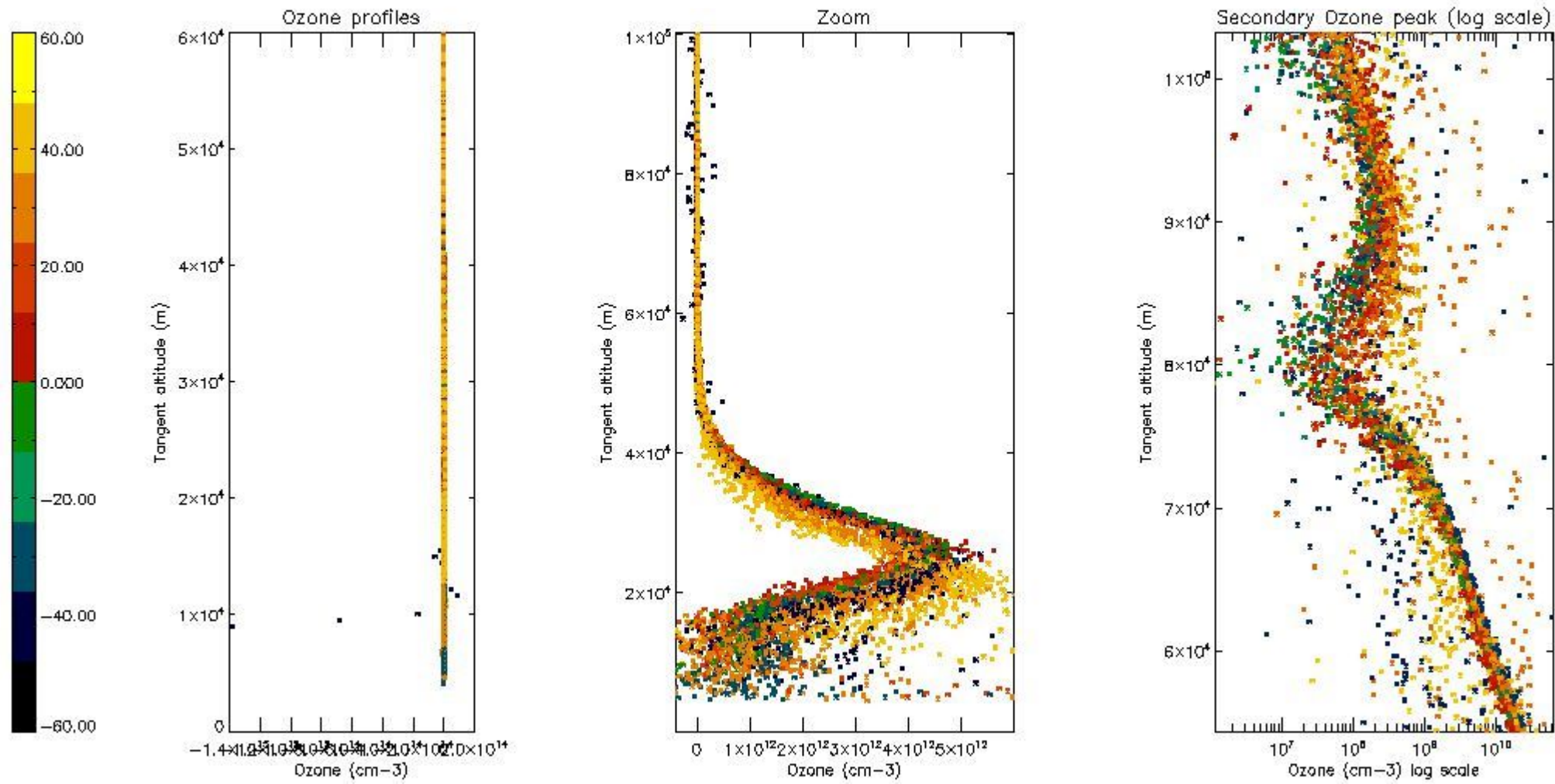
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	30
STD < 20	16

STD < 10	13
STD < 5	9

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

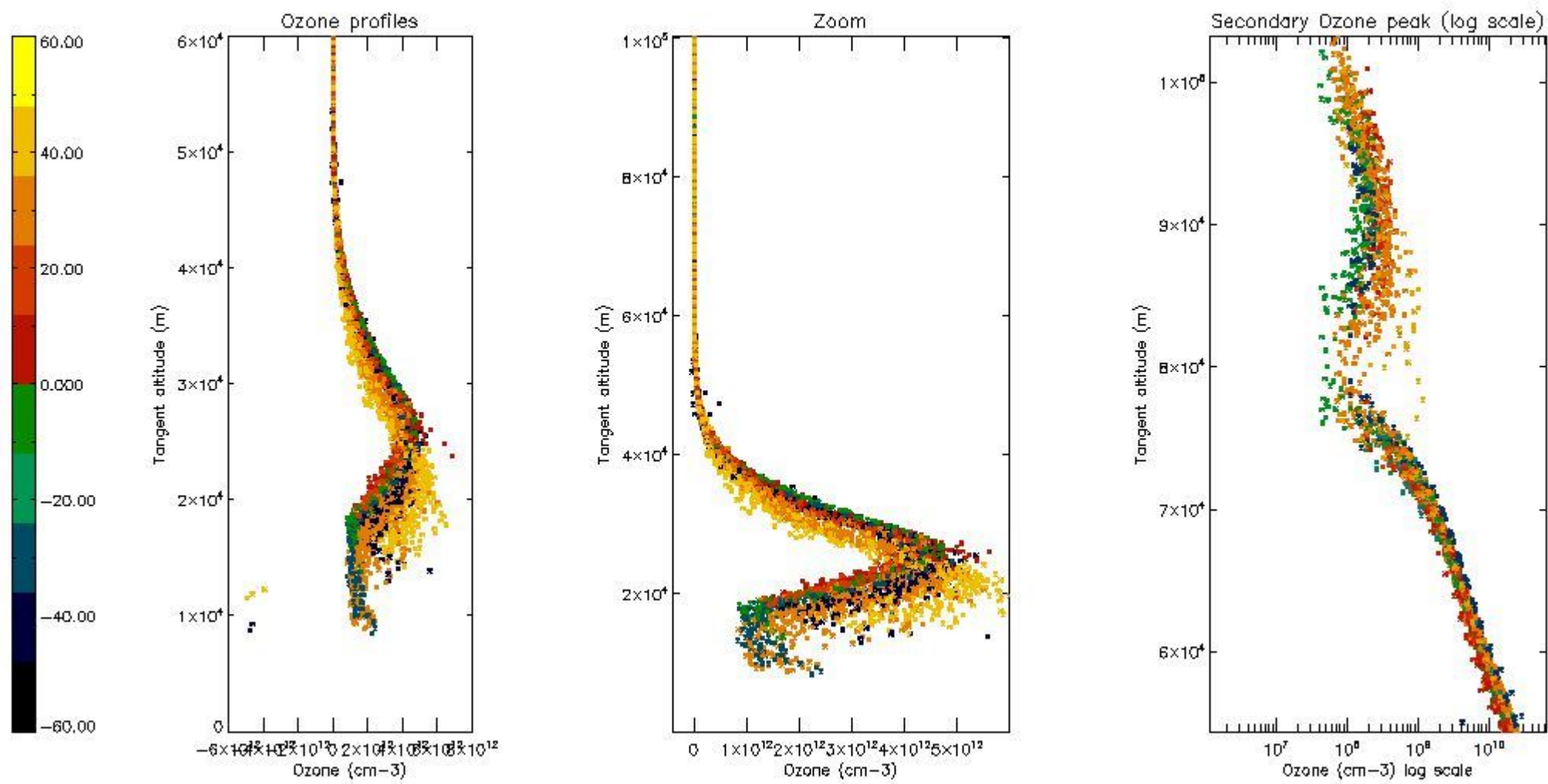
The colorbar represents the latitude.



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

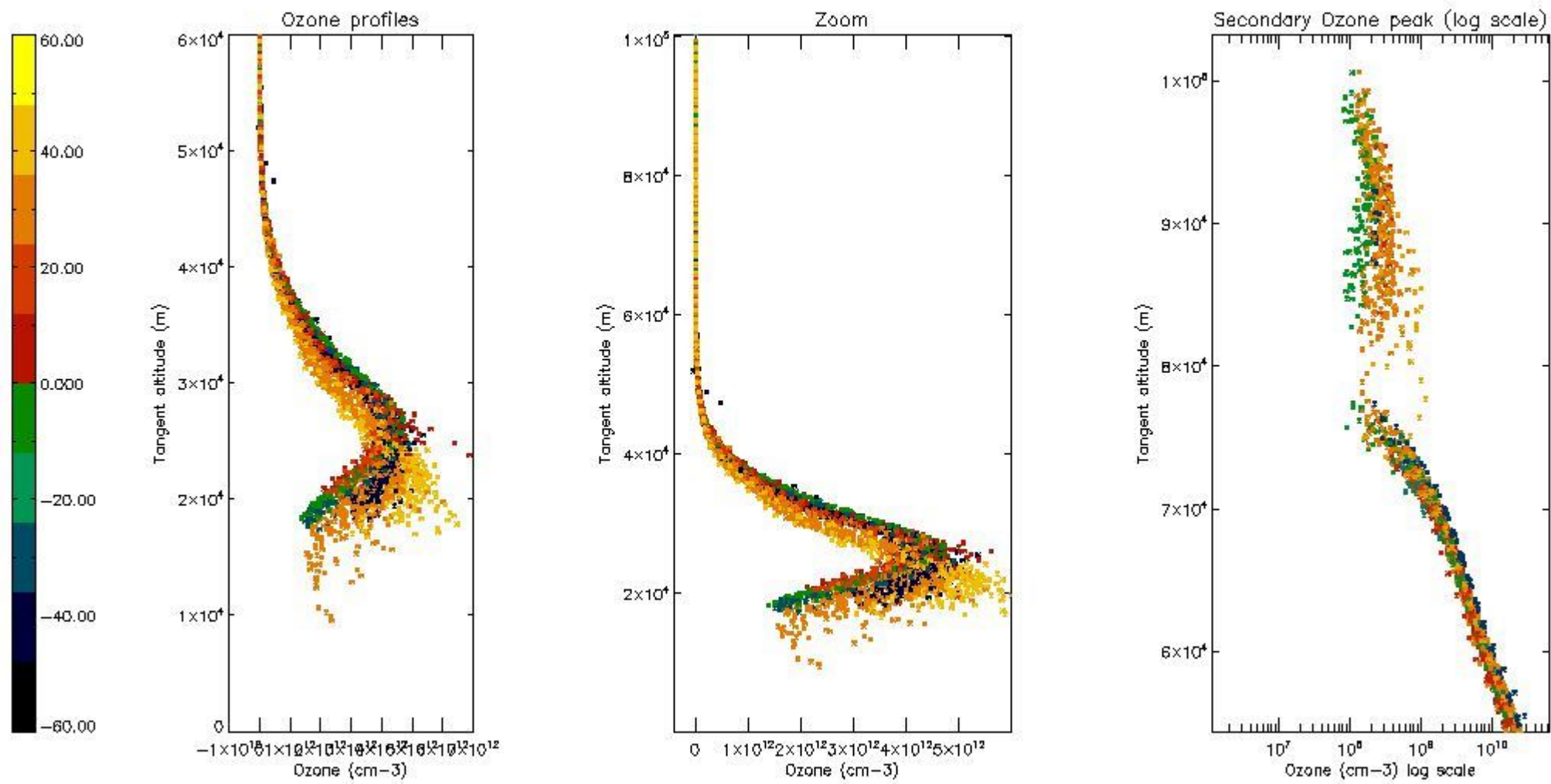
The colorbar represents the latitude.





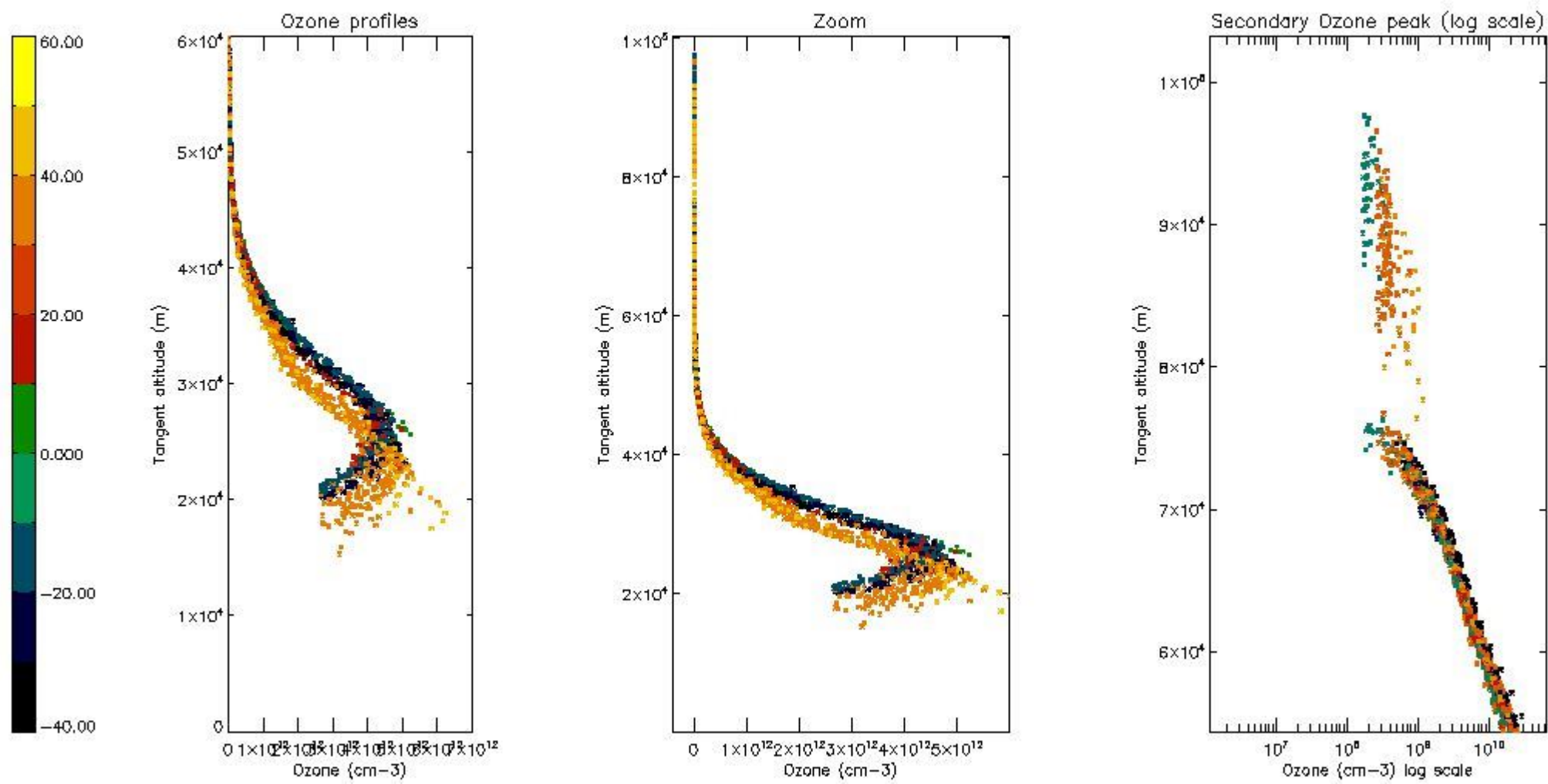
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



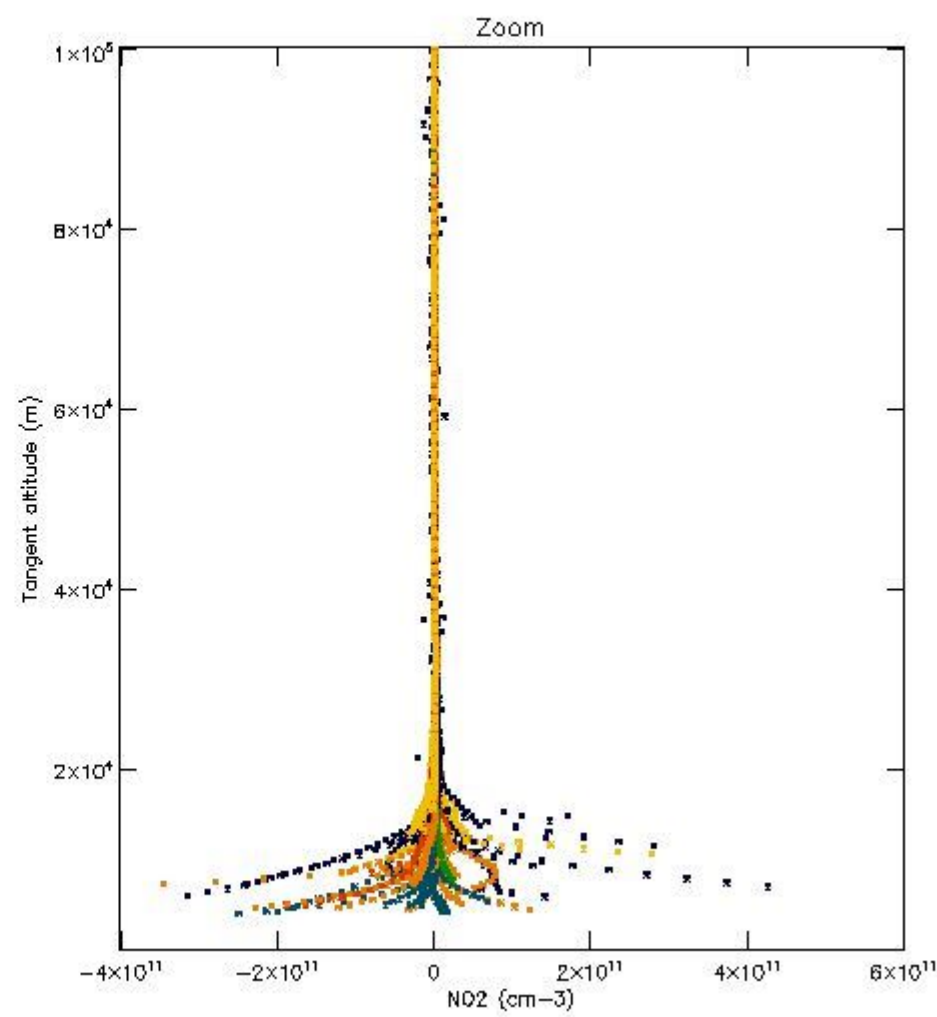
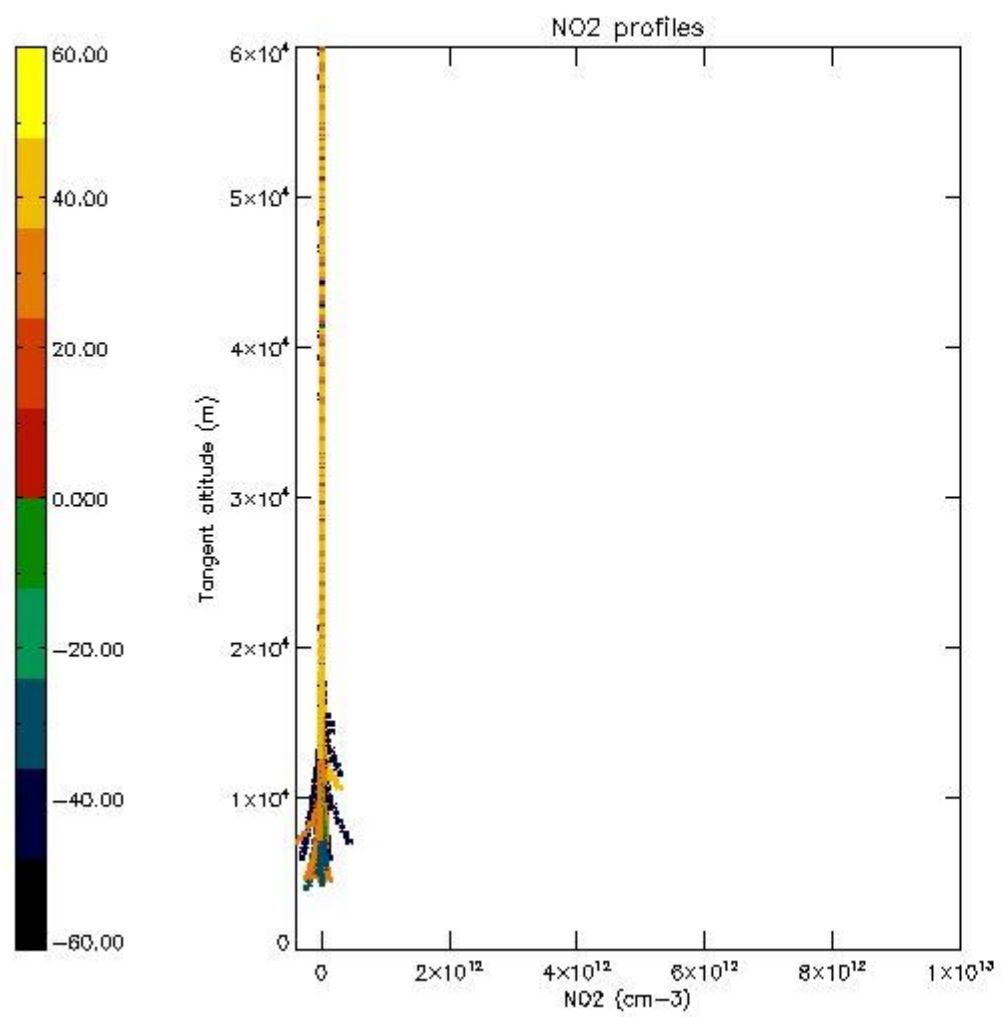
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



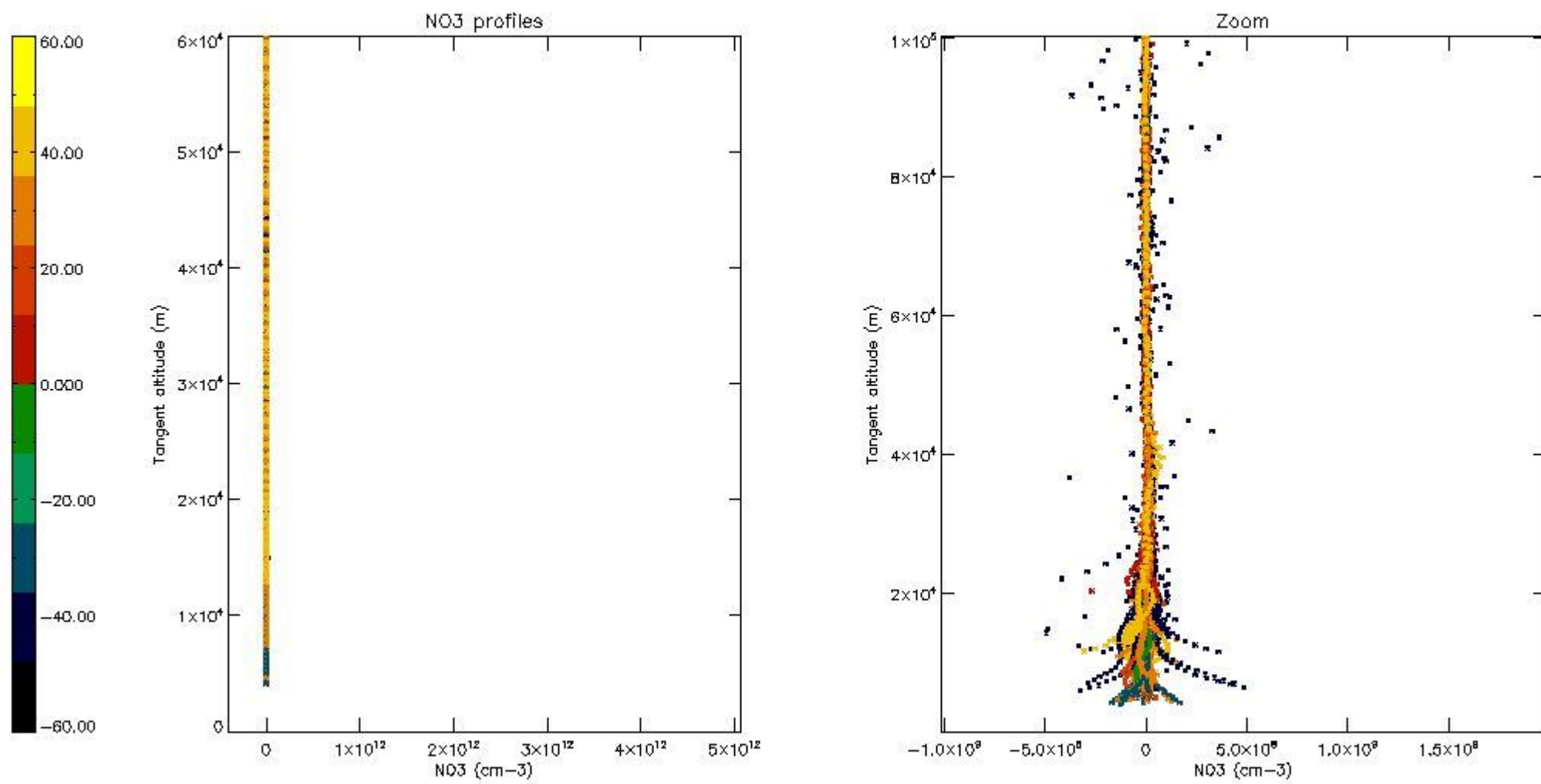
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



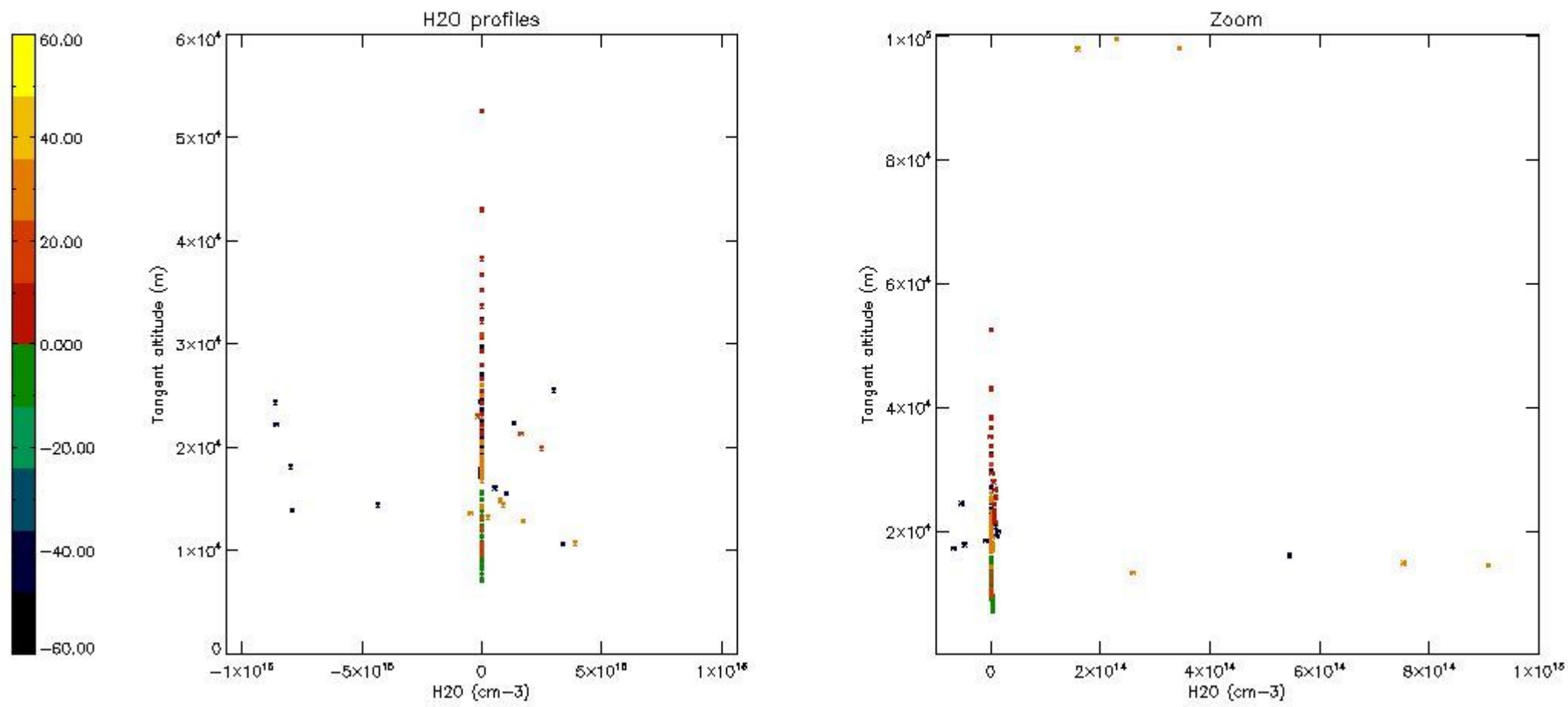
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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)*

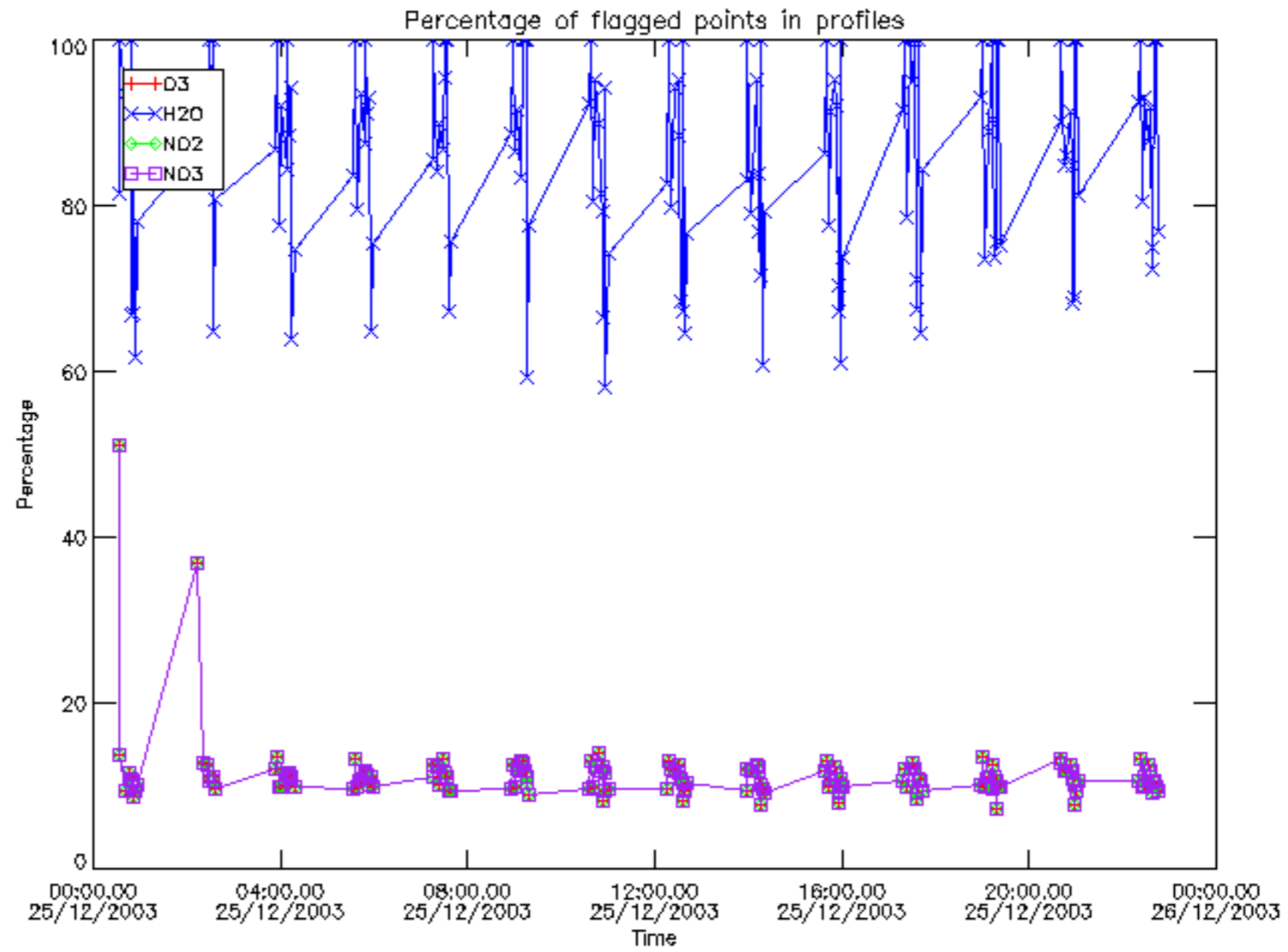
The colorbar represents the latitude.



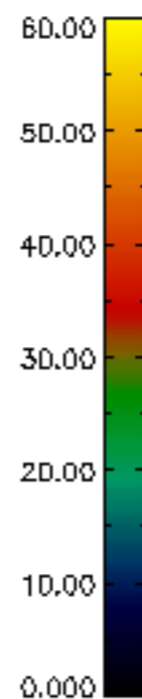
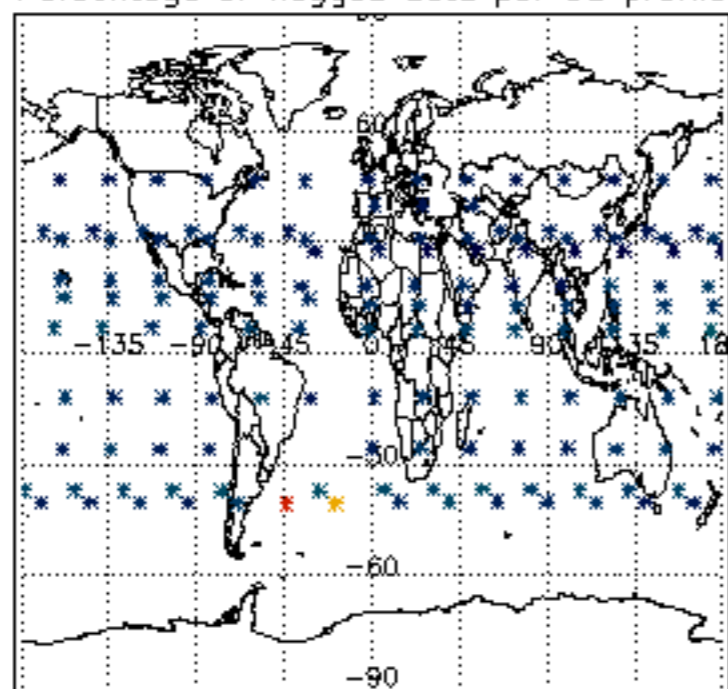
## 6. Auxiliary Data Files used for the production reported in section 2

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.

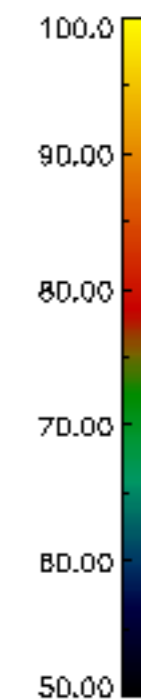
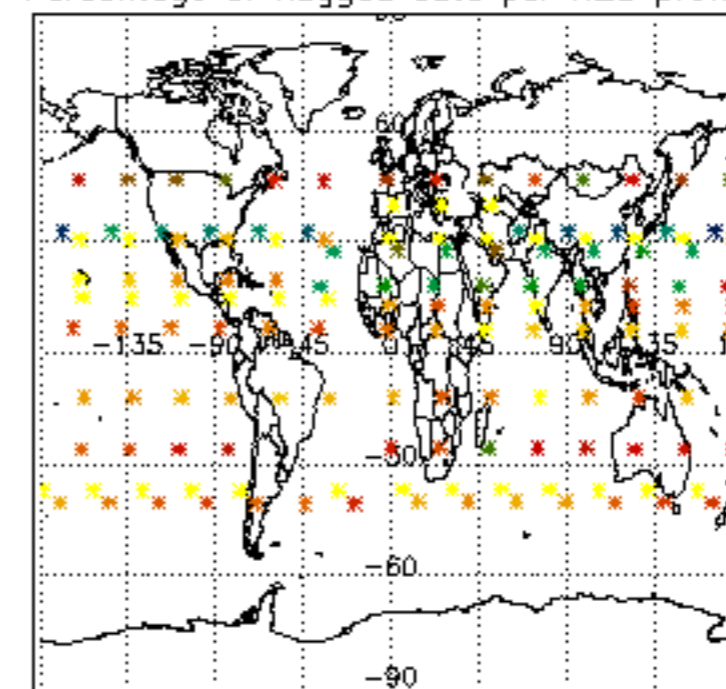
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	25-DEC-2003 00:02:23
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	25-DEC-2003 00:02:23
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	25-DEC-2003 00:02:23



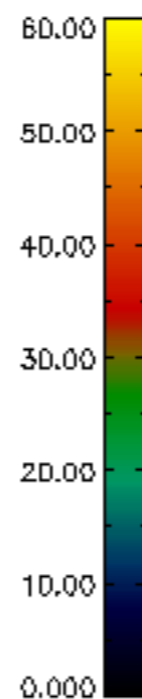
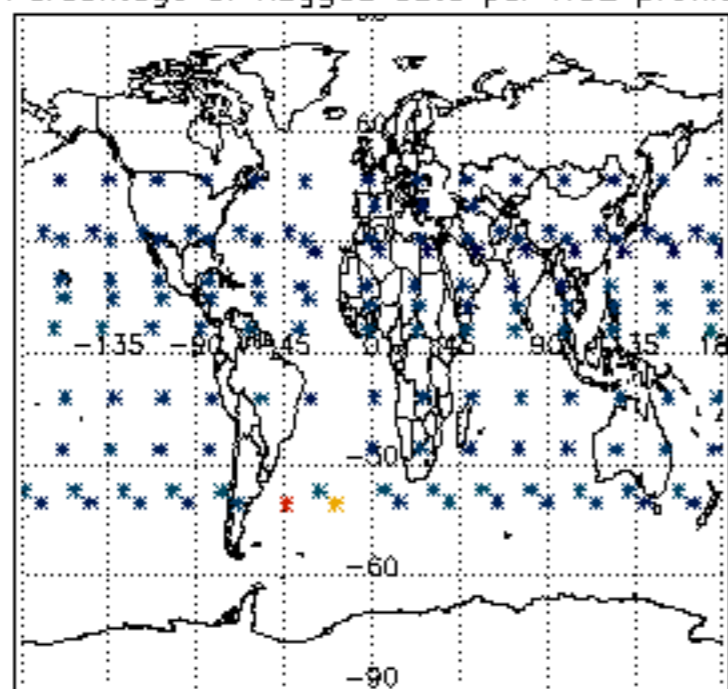
Percentage of flagged data per D3 profile



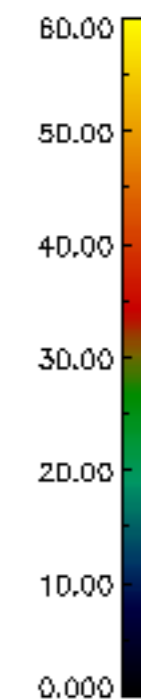
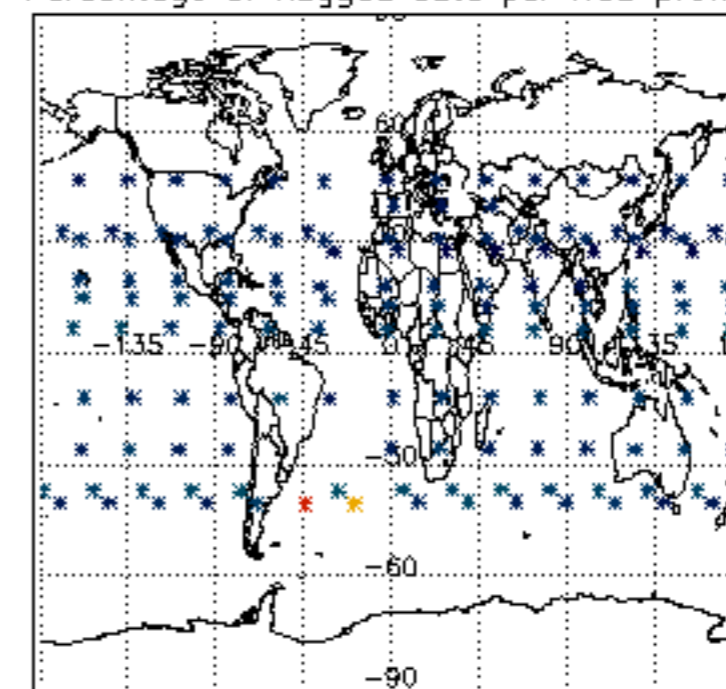
Percentage of flagged data per H2O profile



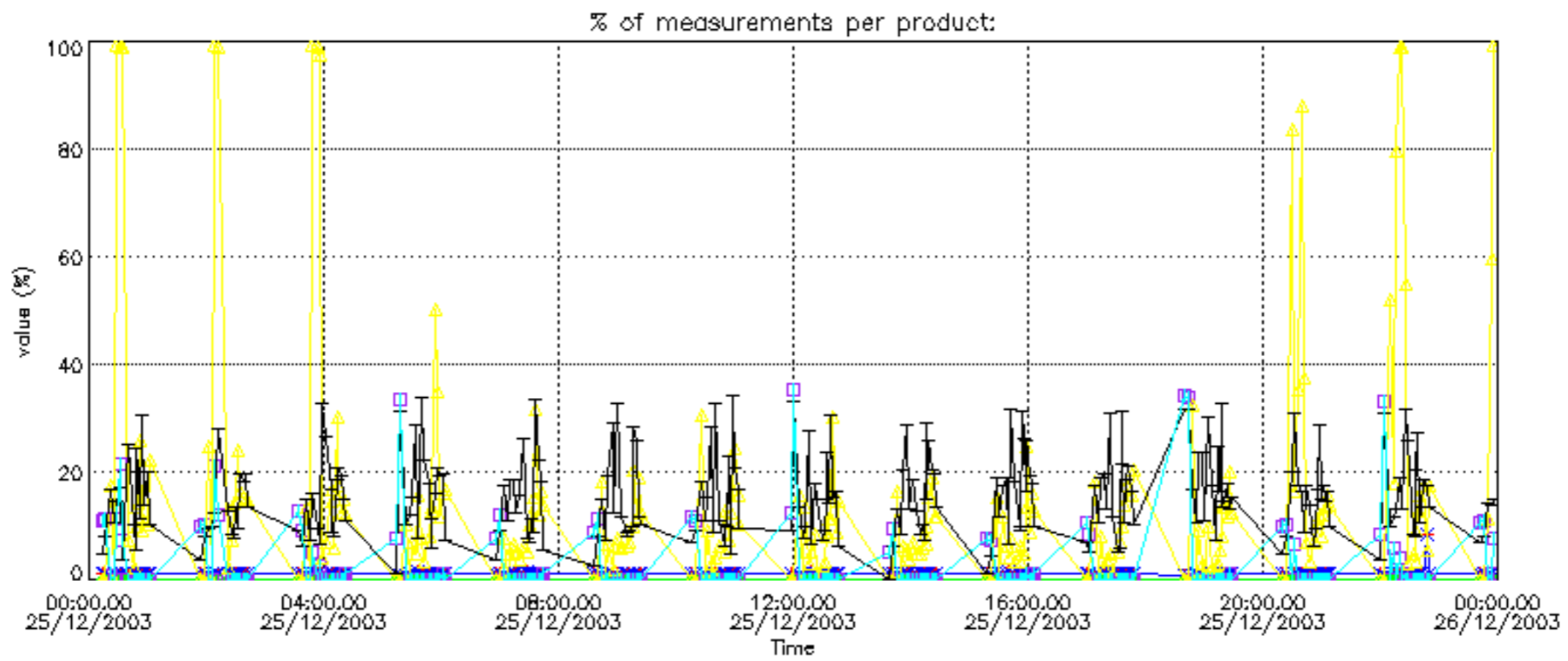
Percentage of flagged data per NO2 profile

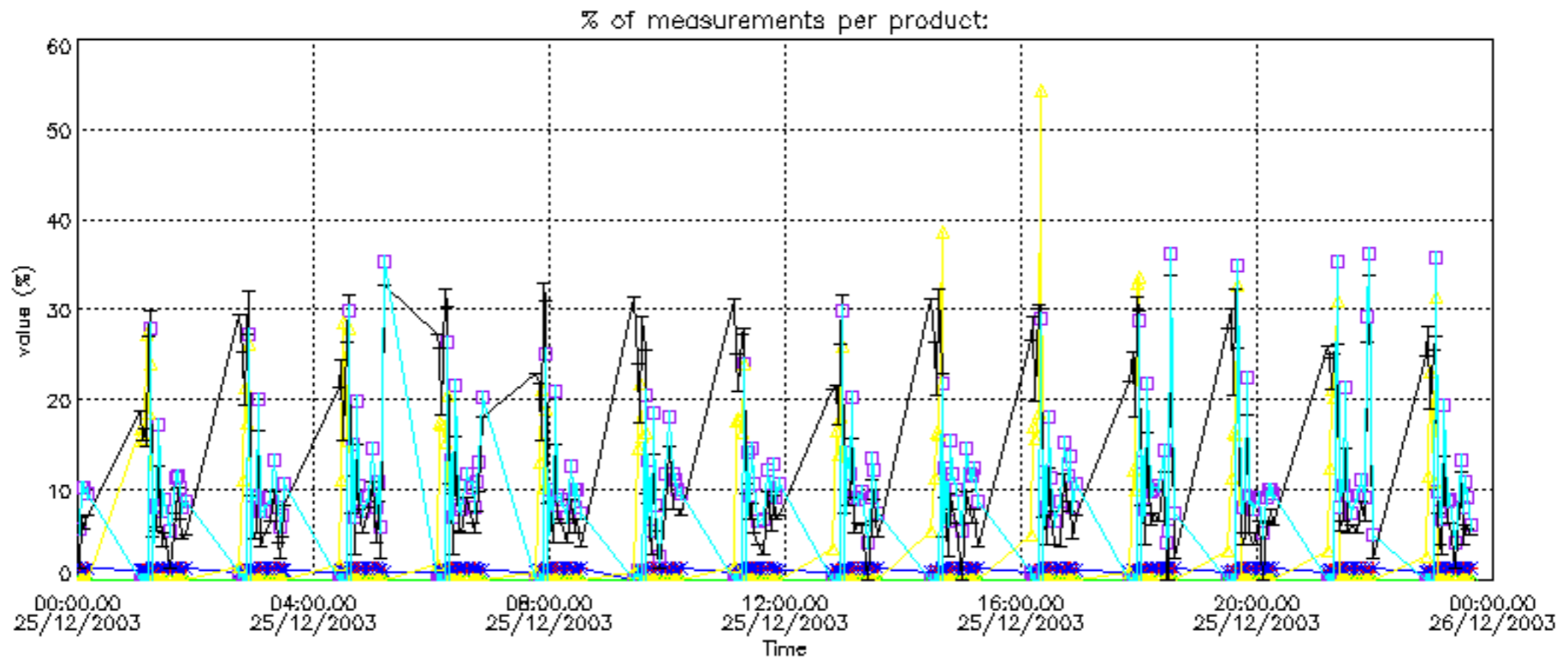


Percentage of flagged data per NO3 profile

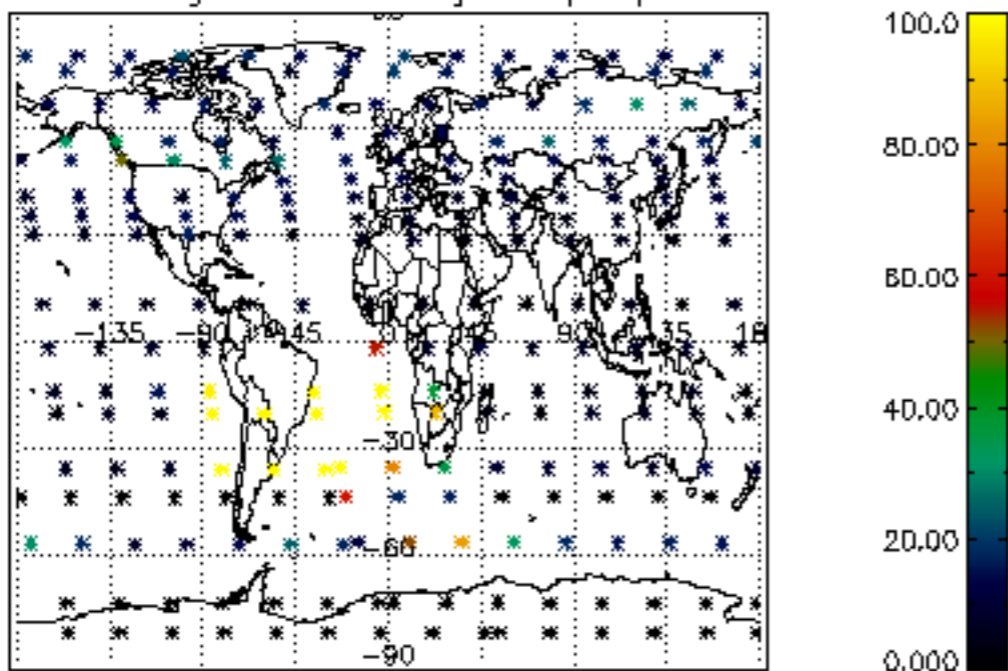




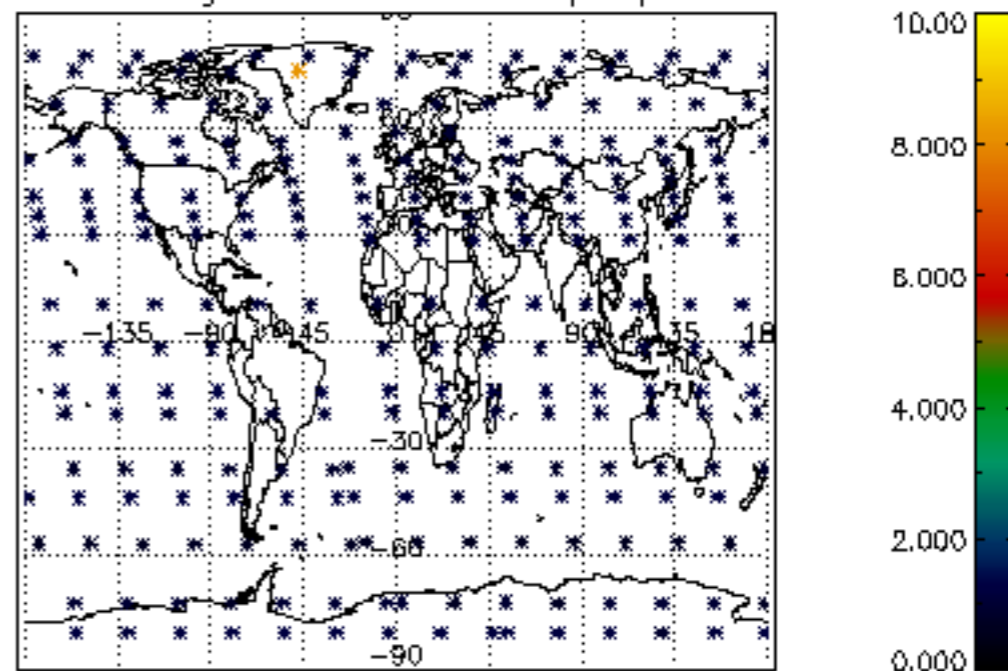




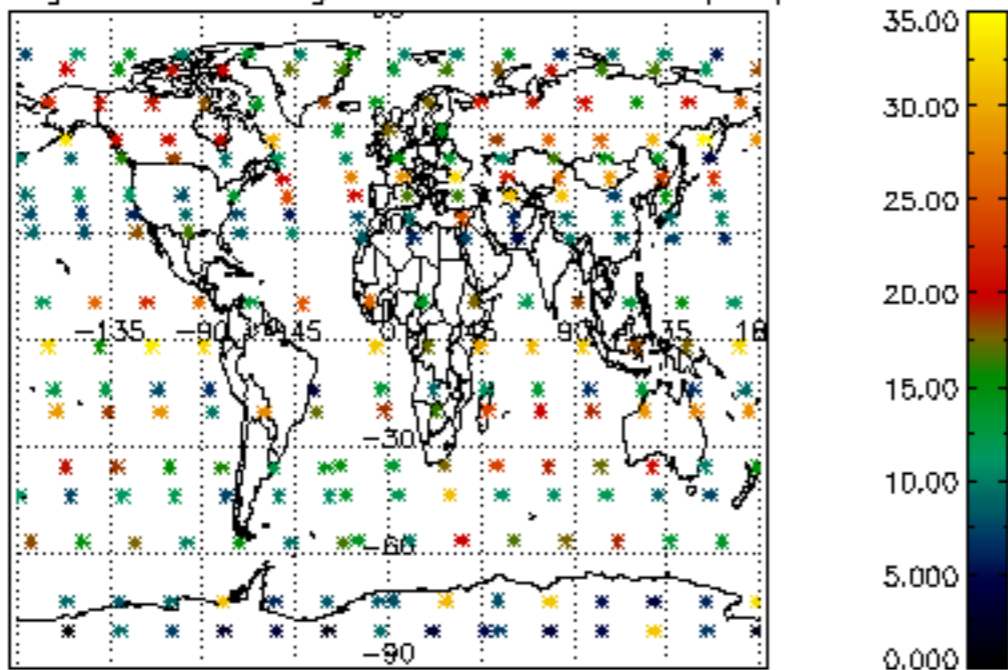
Percentage of cosmic ray hits per profile



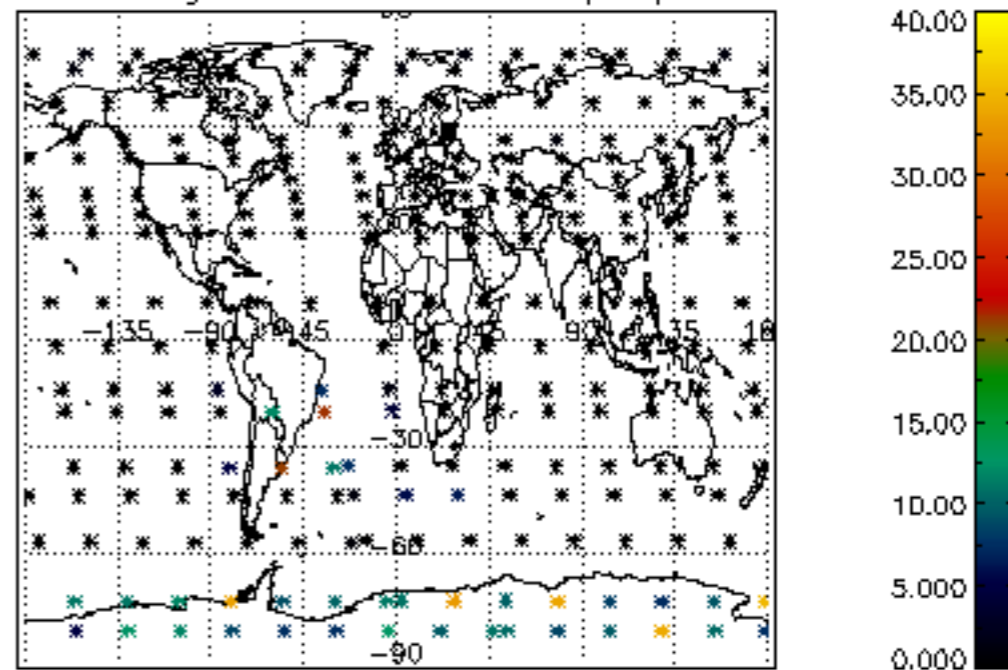
Percentage of datation errors per profile



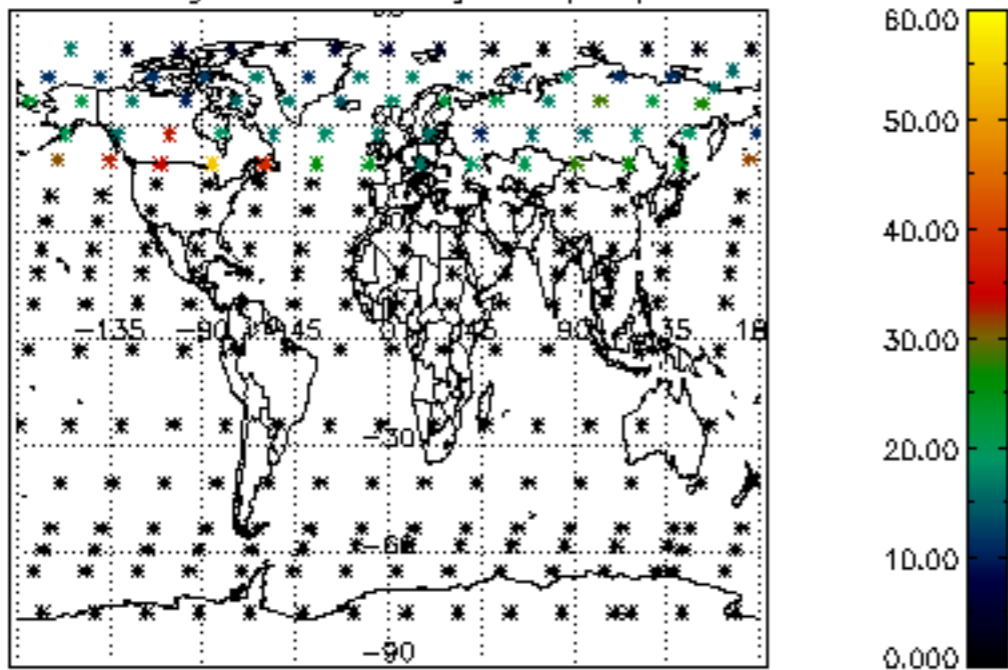
Percentage of star falling outside central band per profile



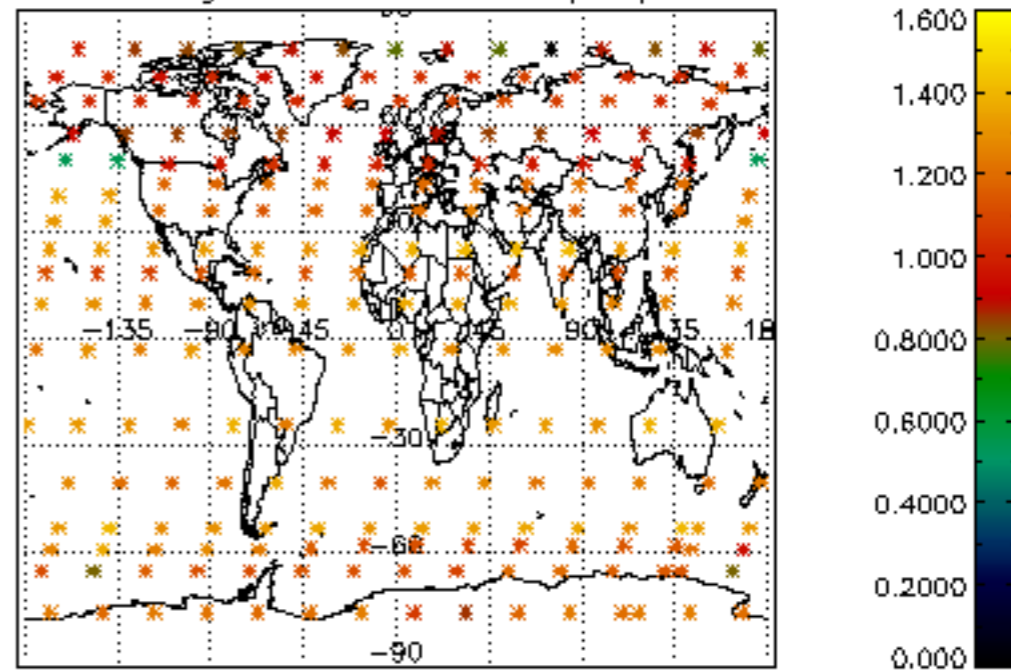
Percentage of saturation errors per profile



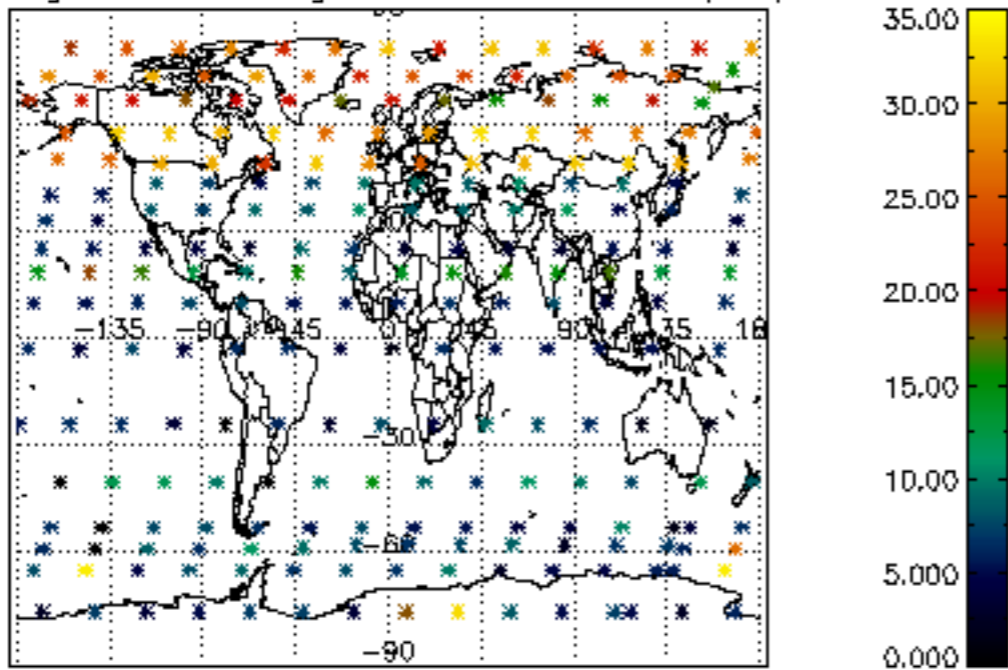
Percentage of cosmic ray hits per profile



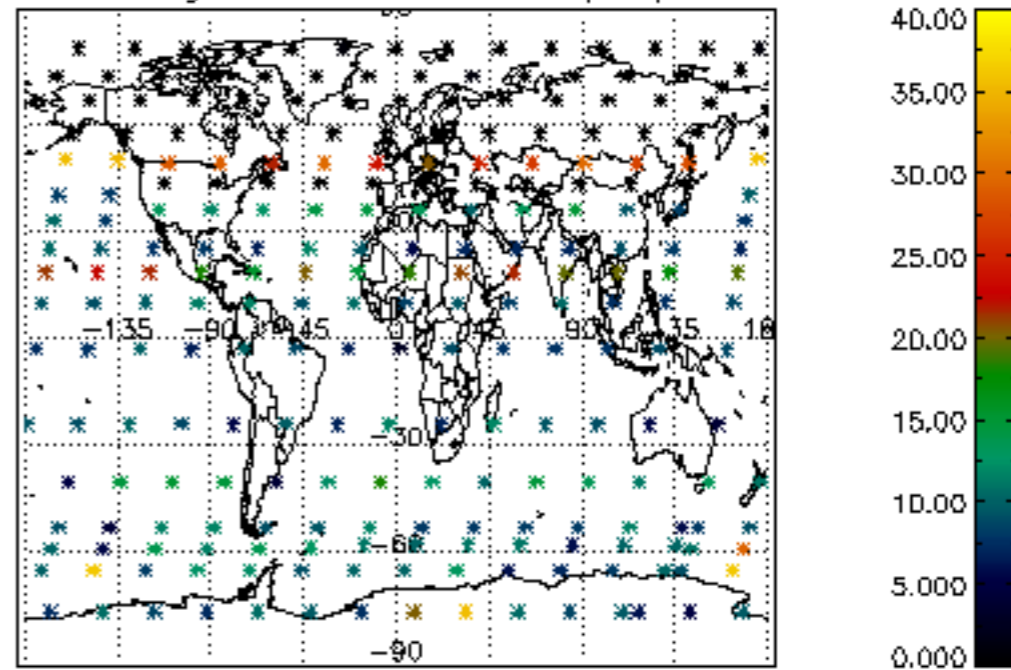
Percentage of datation errors per profile

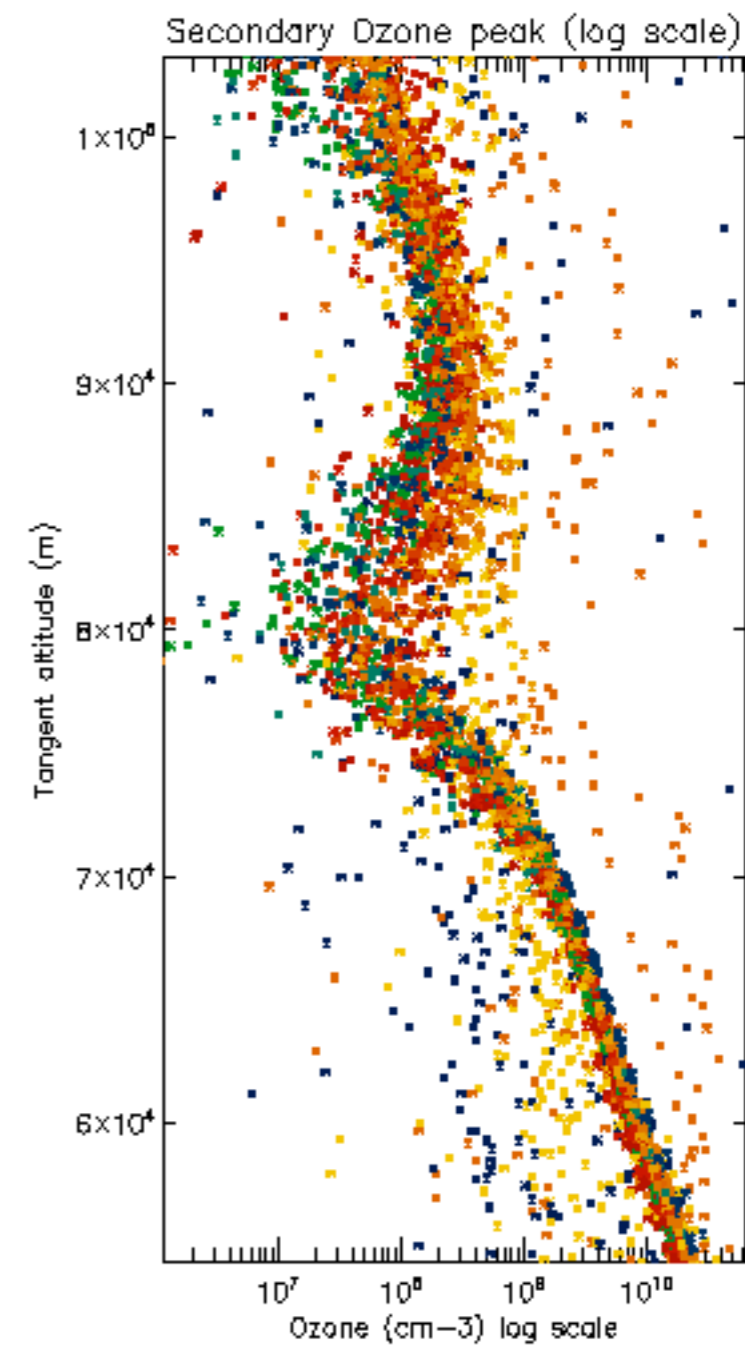
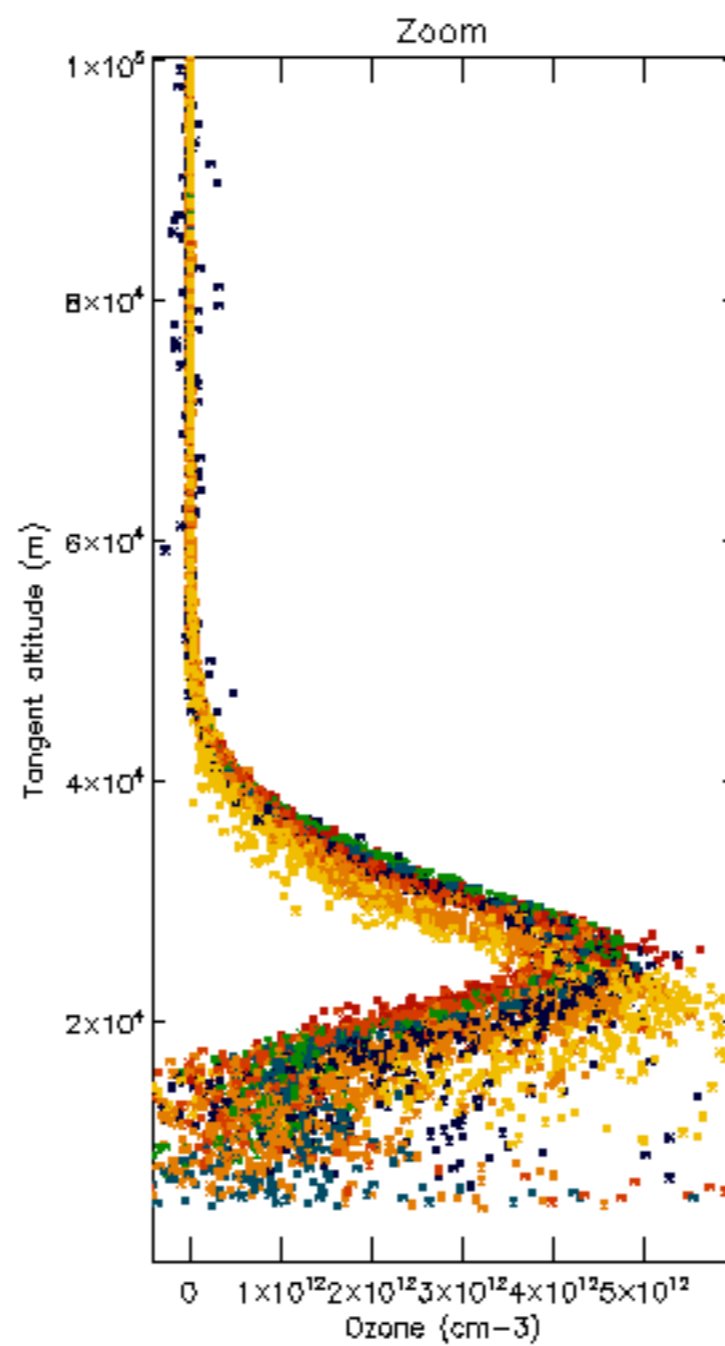
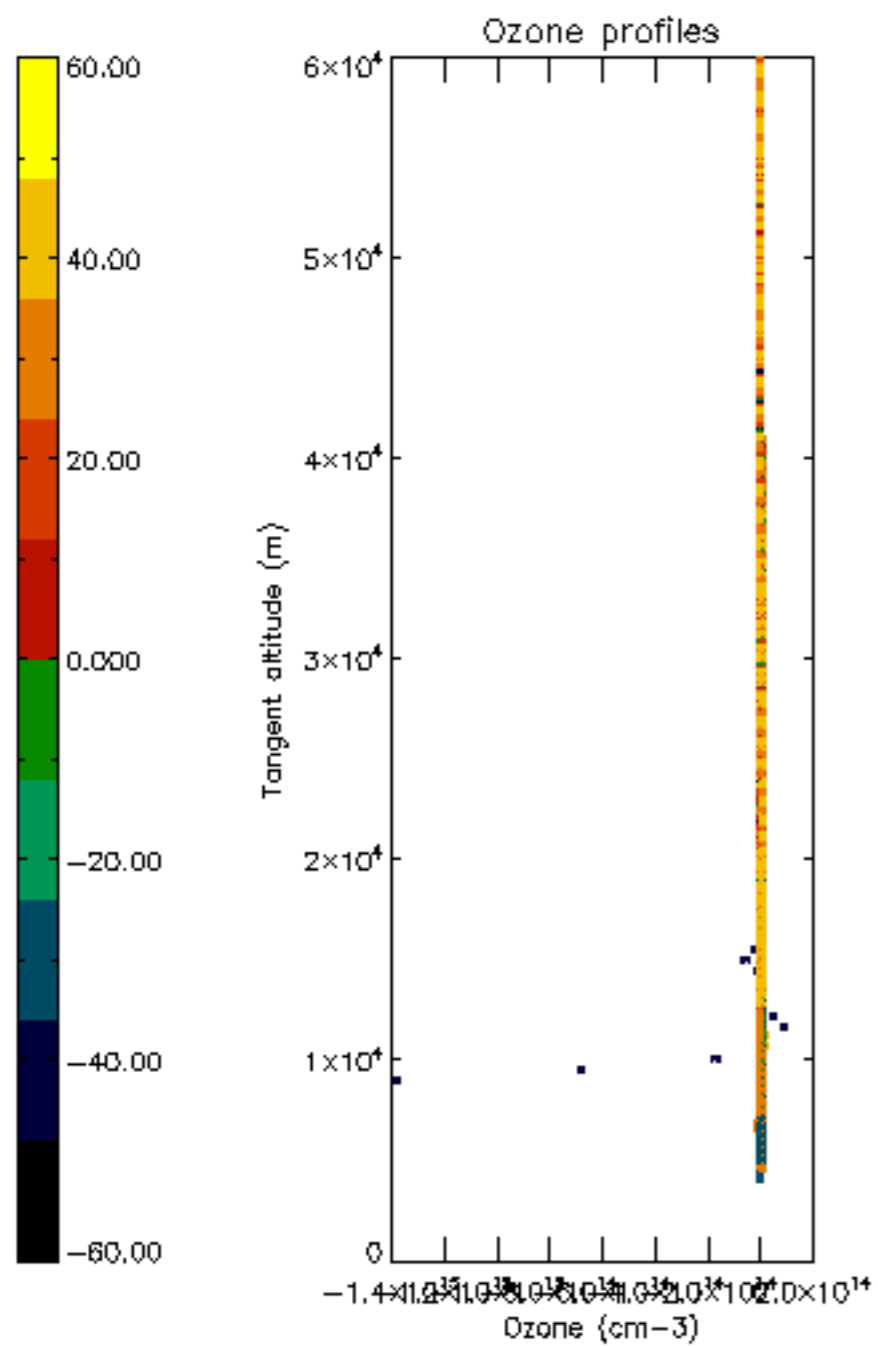


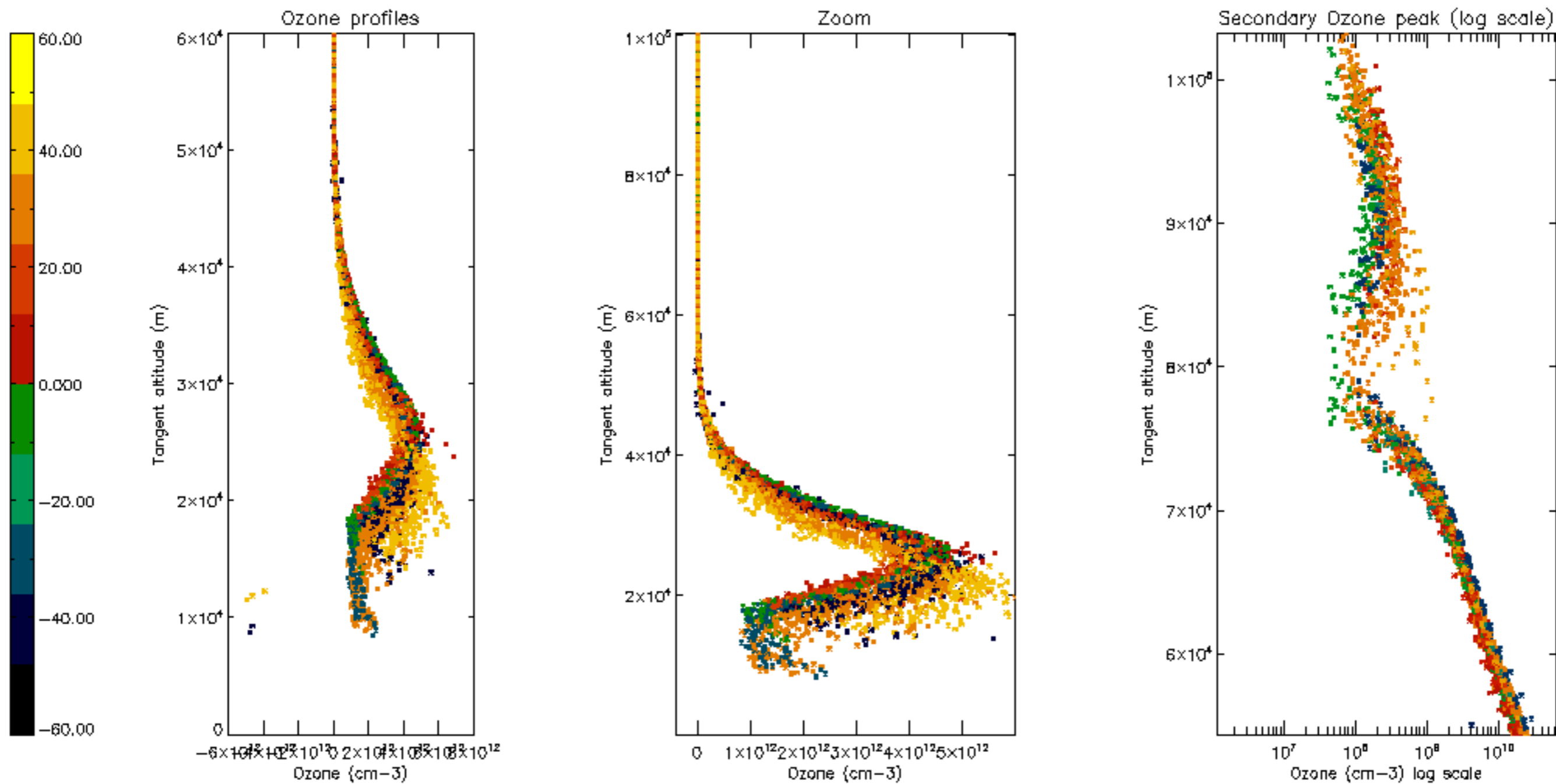
Percentage of star falling outside central band per profile

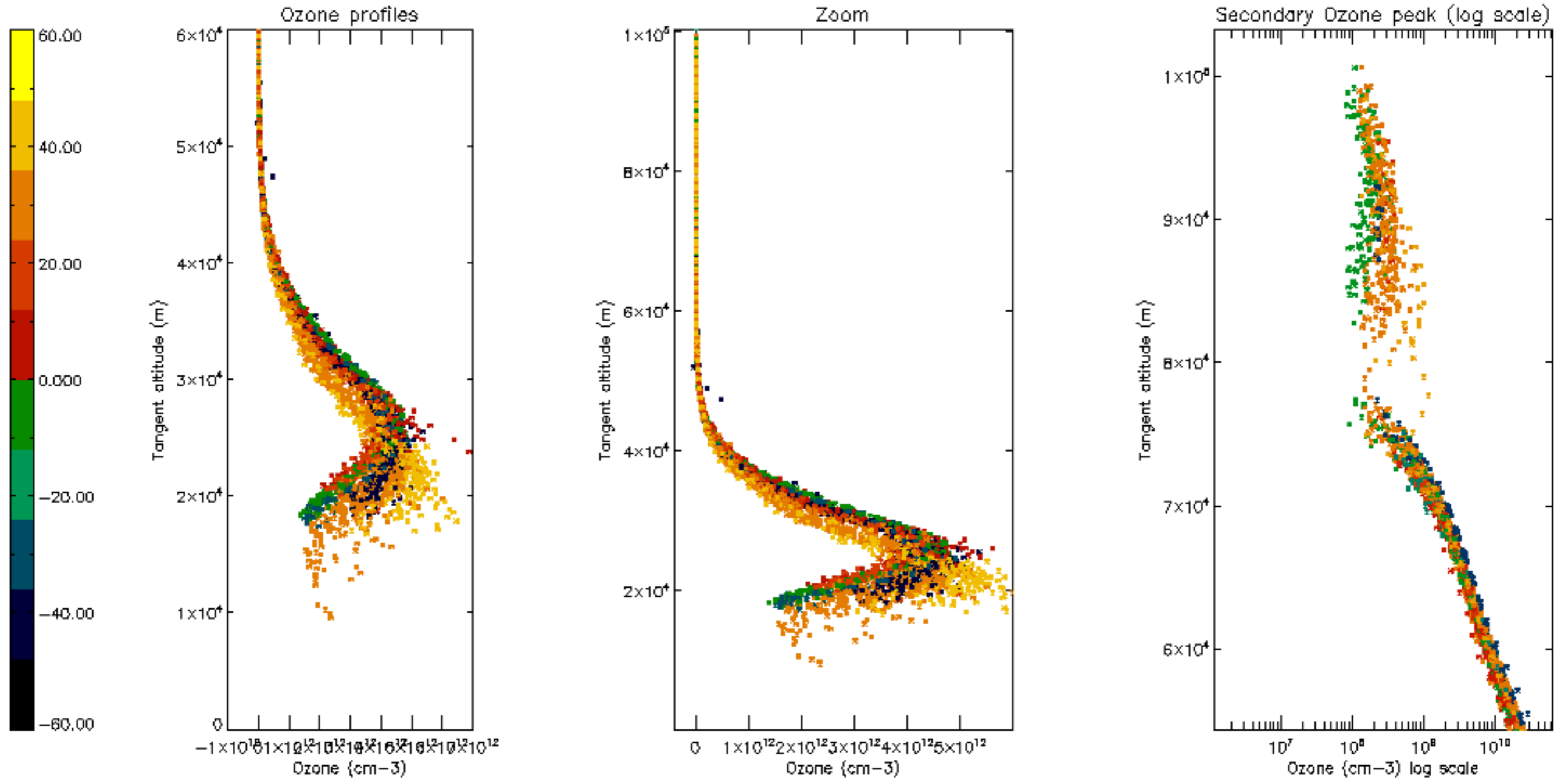


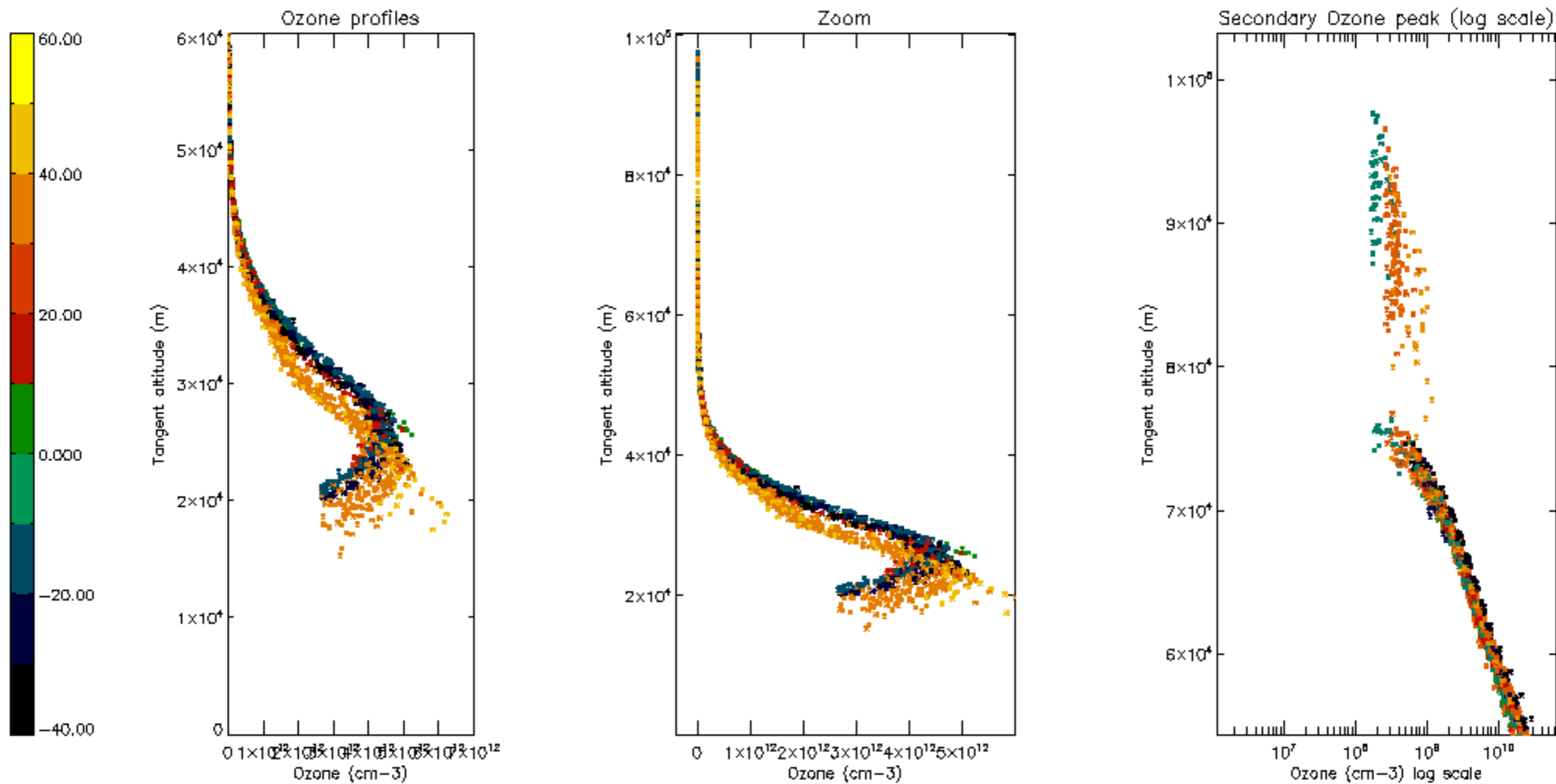
Percentage of saturation errors per profile



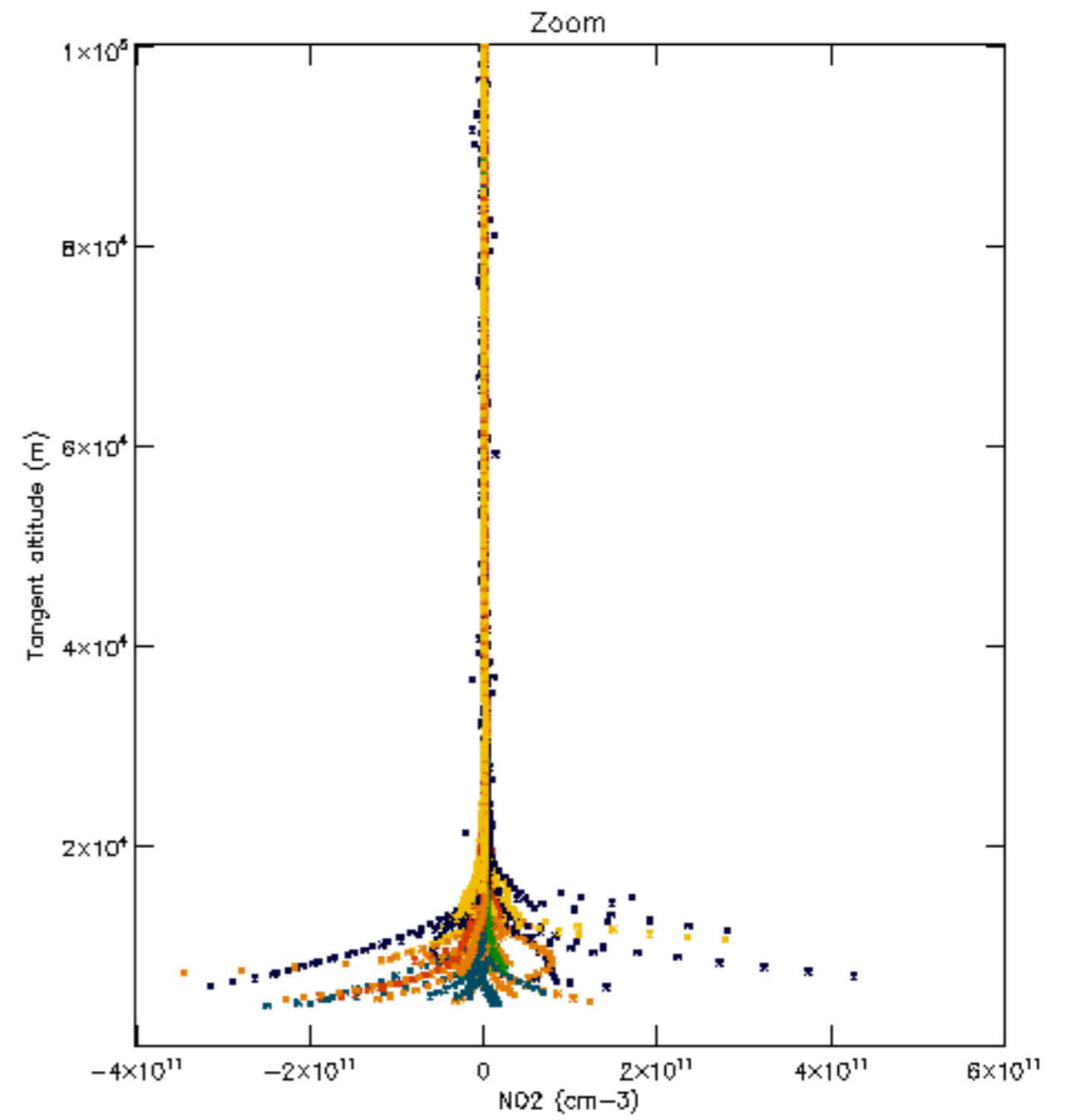
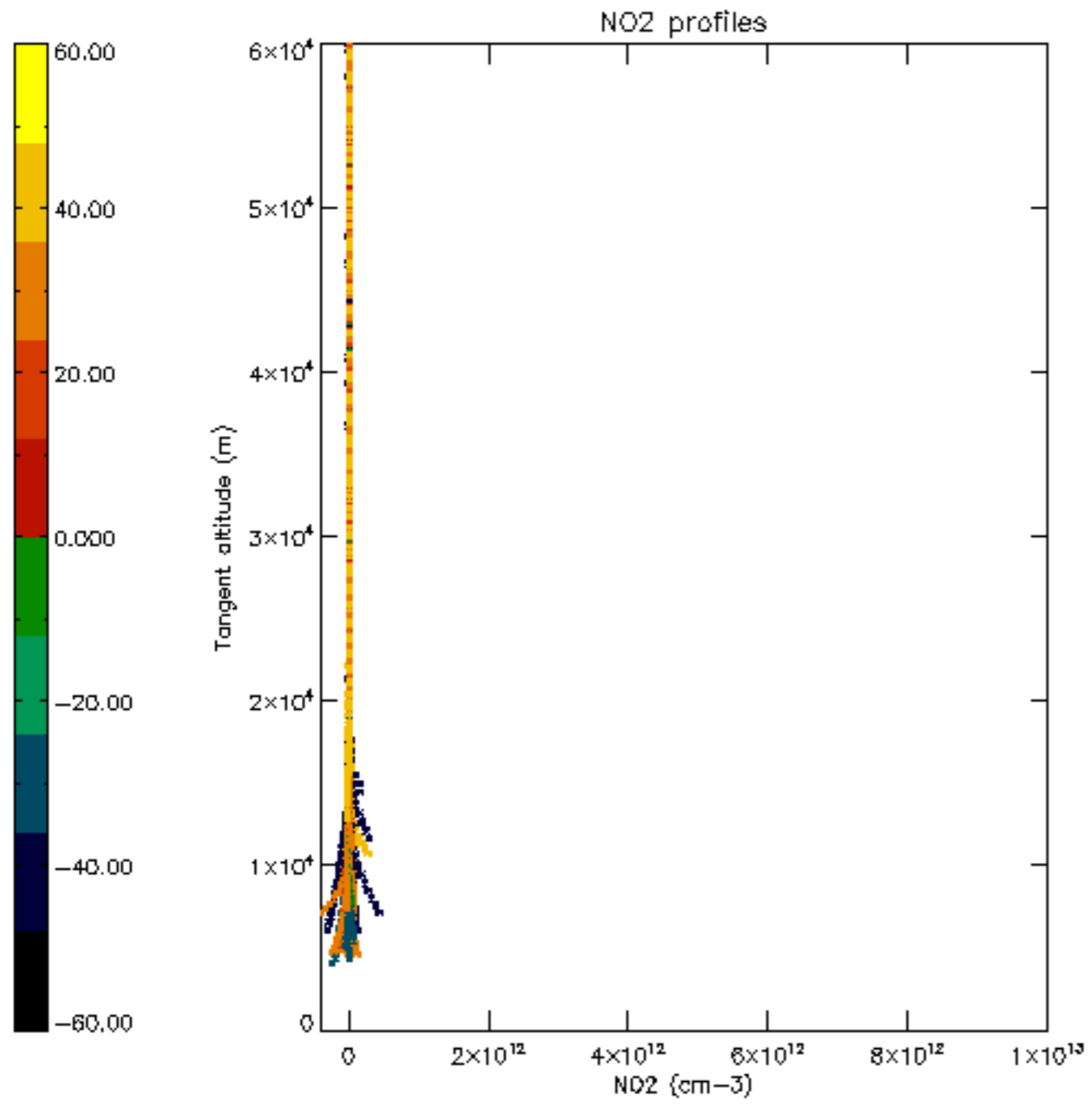


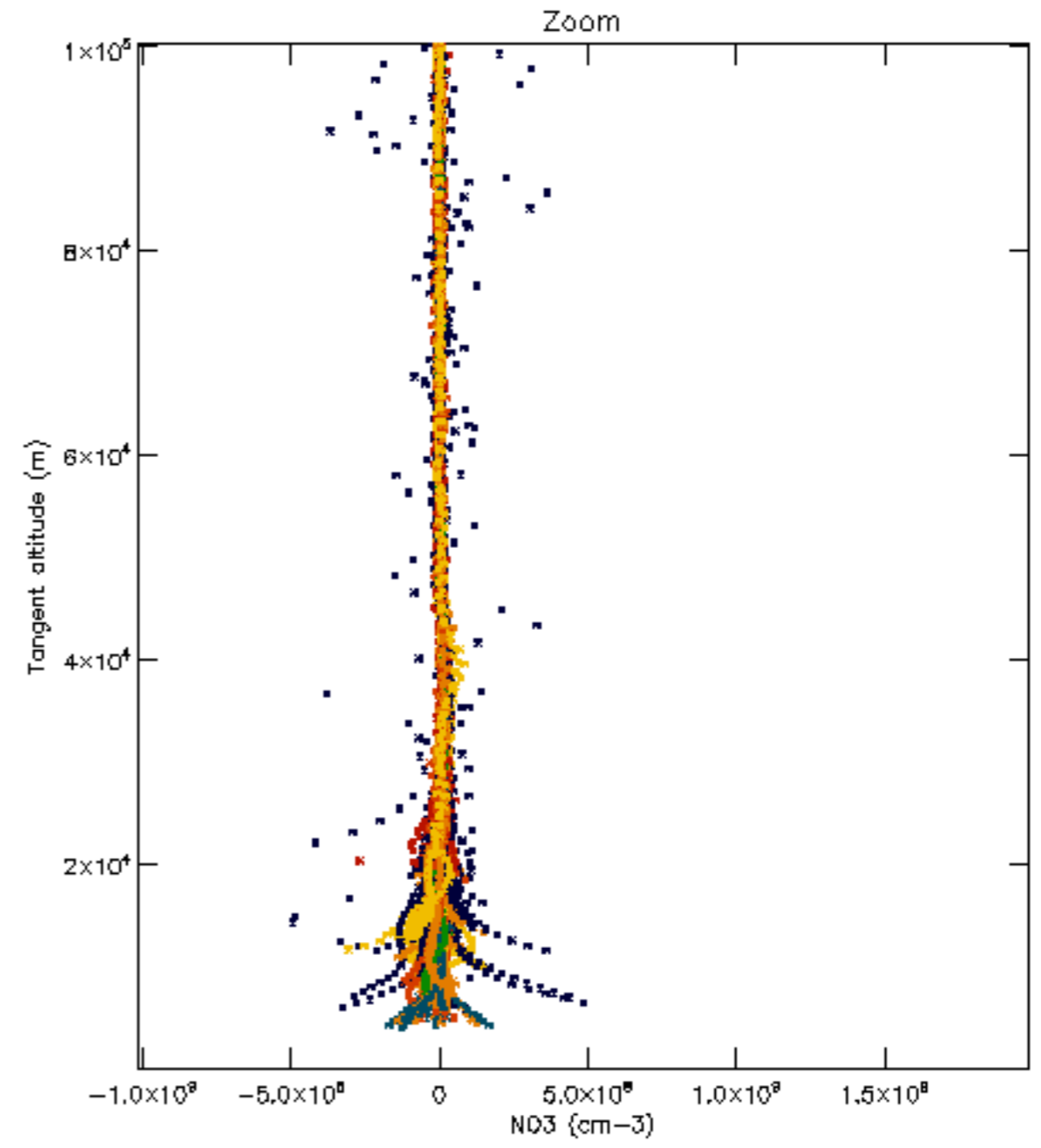
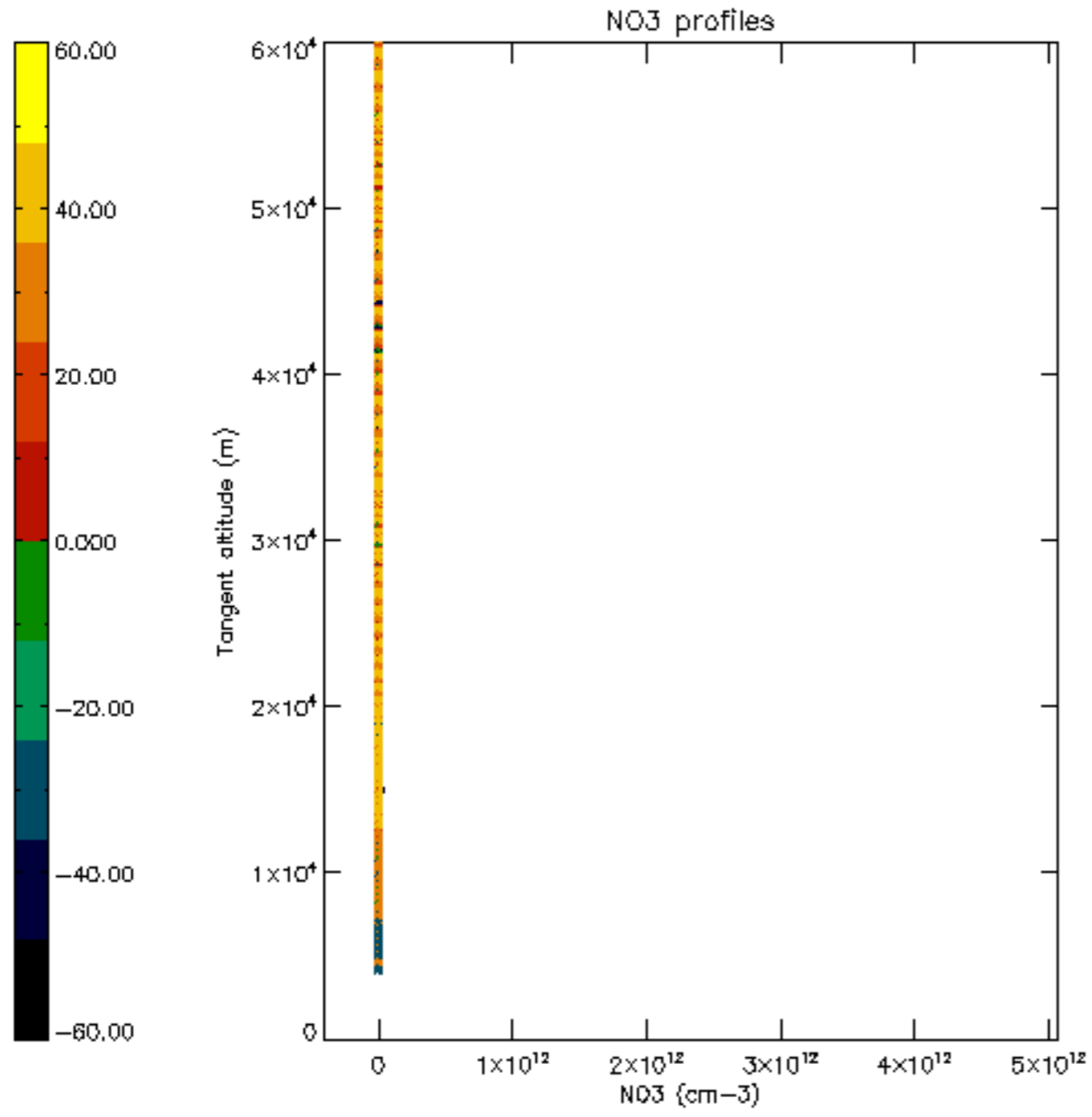


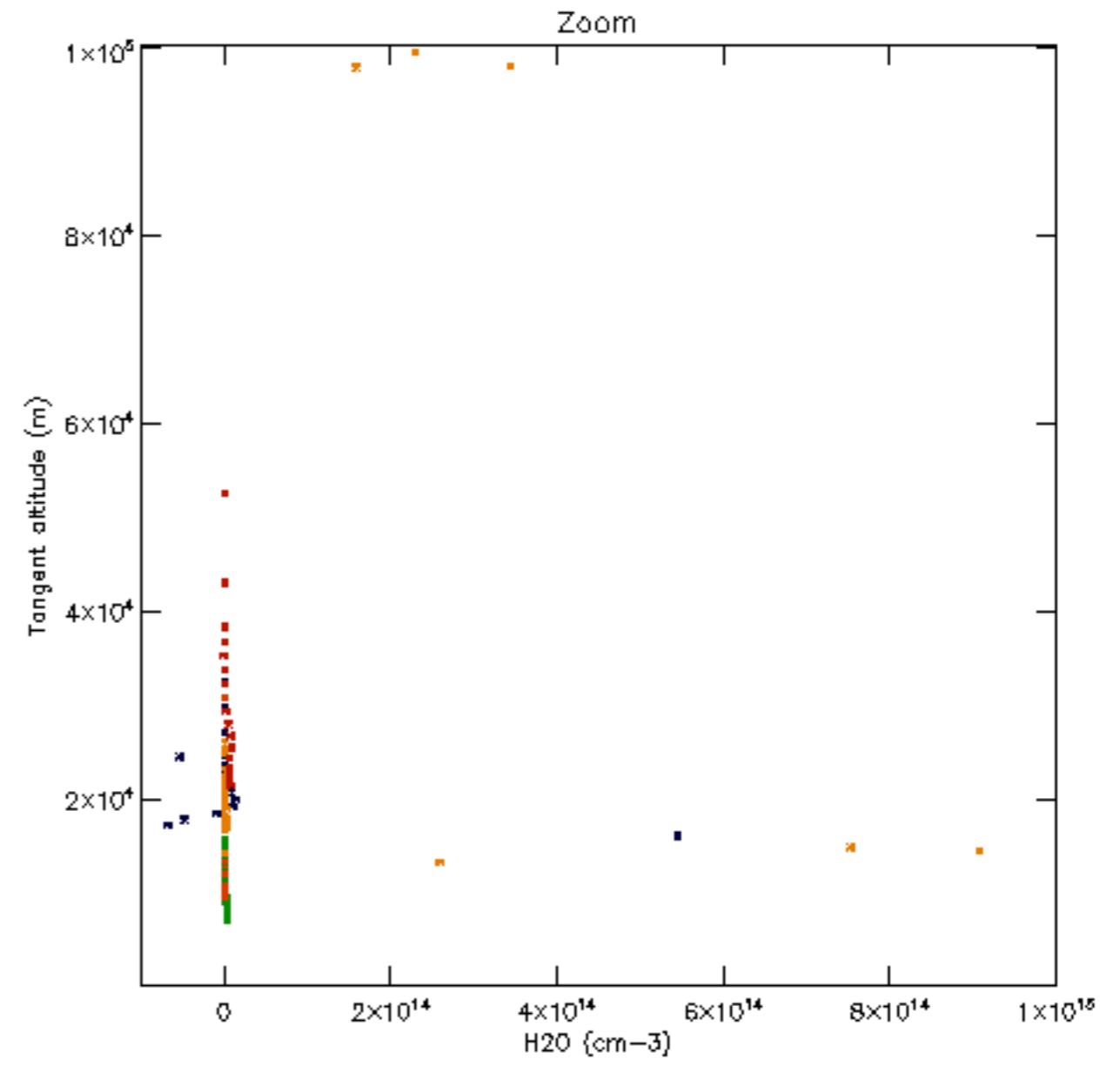
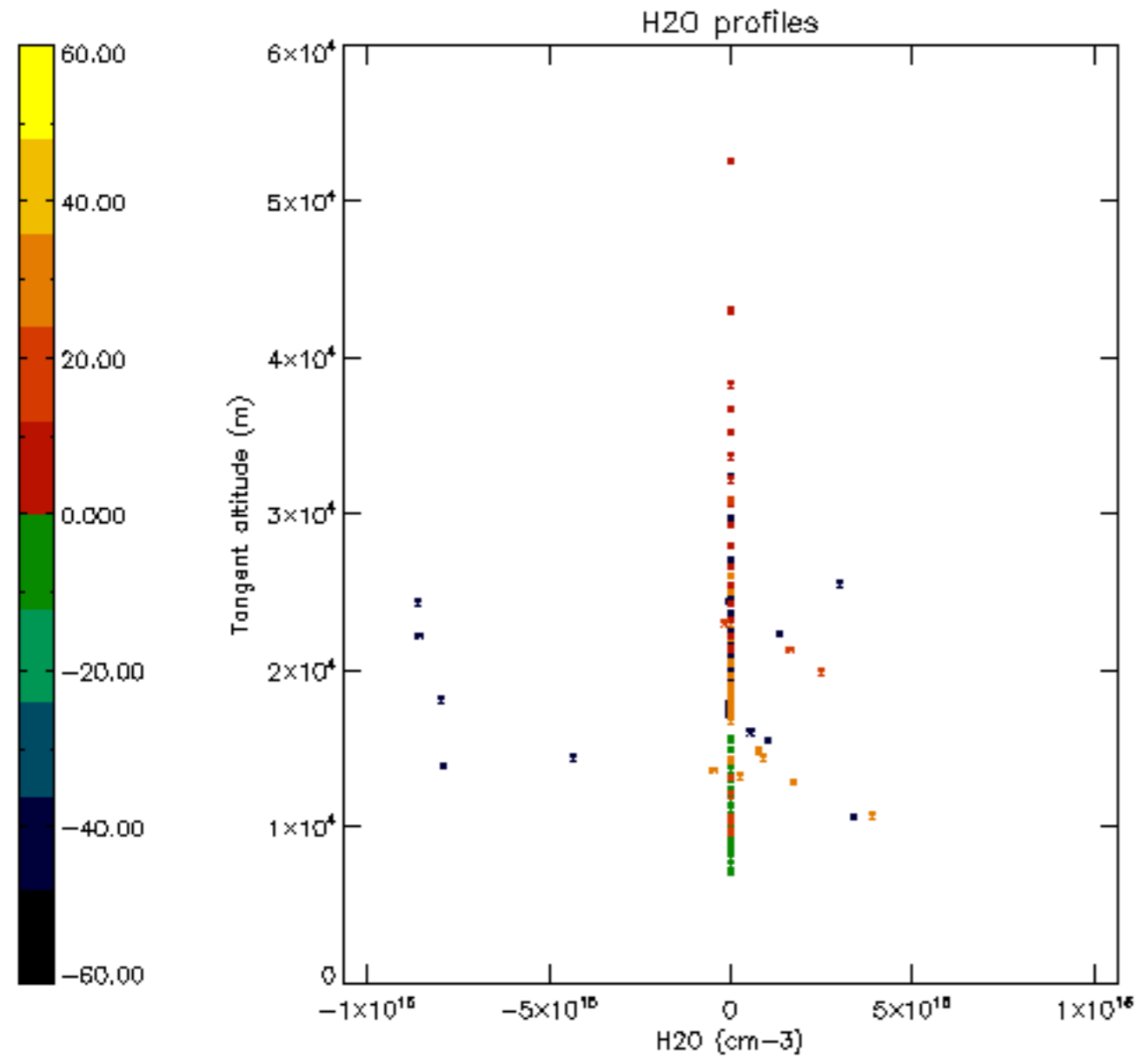


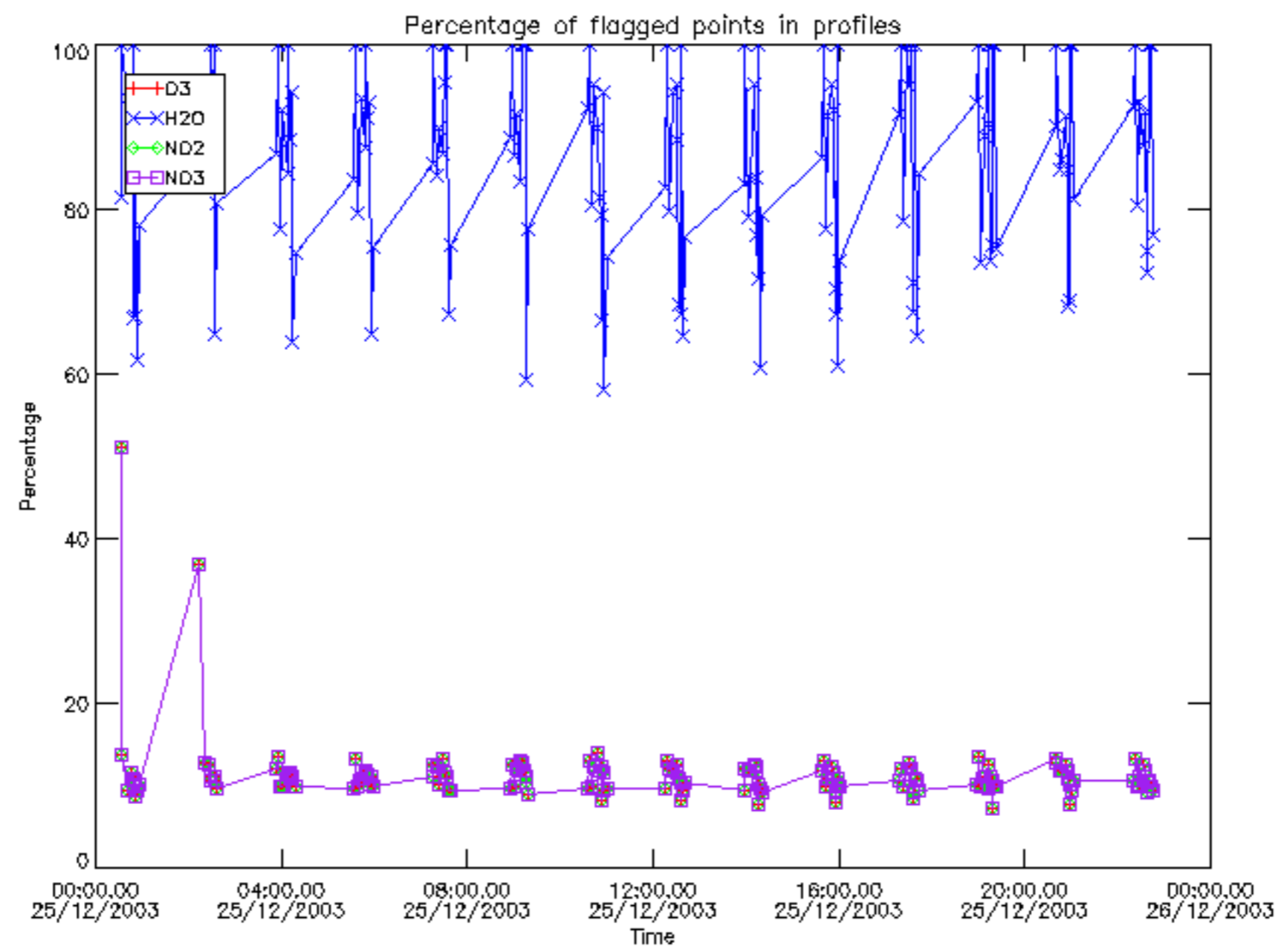




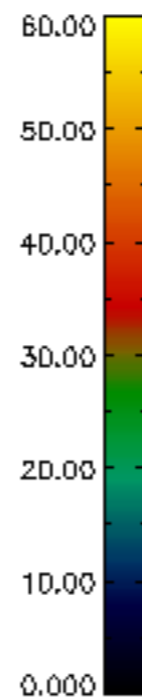
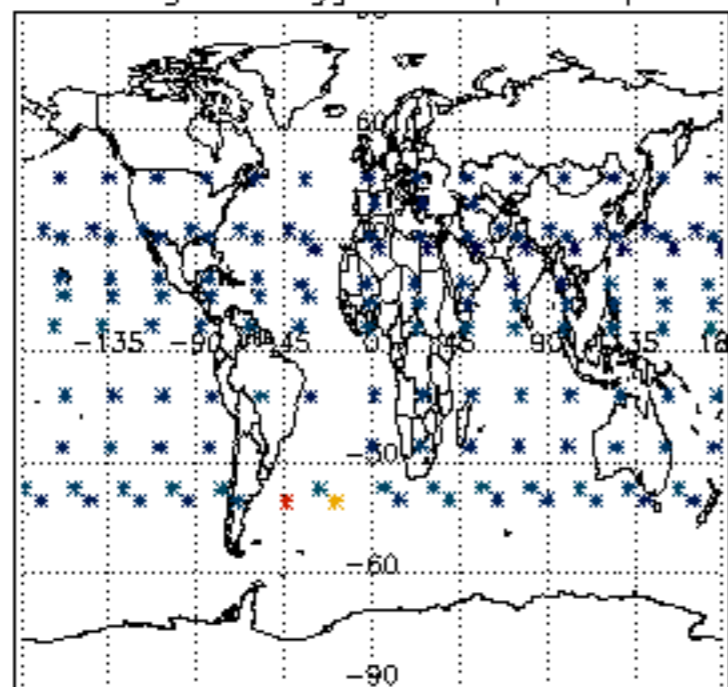




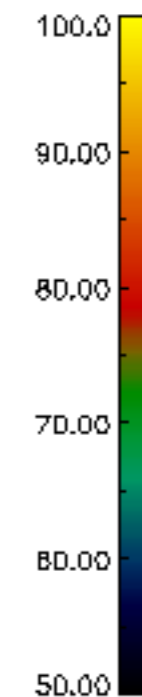
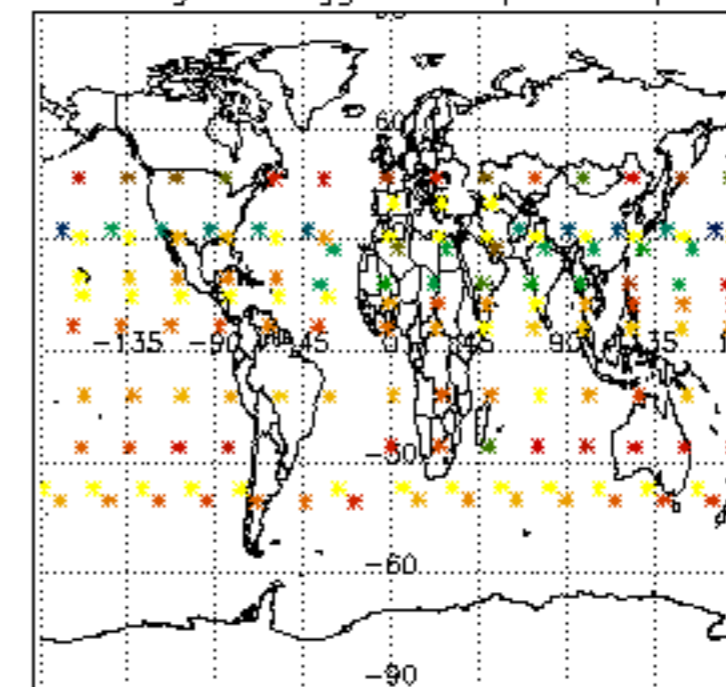




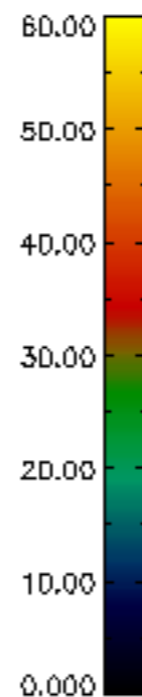
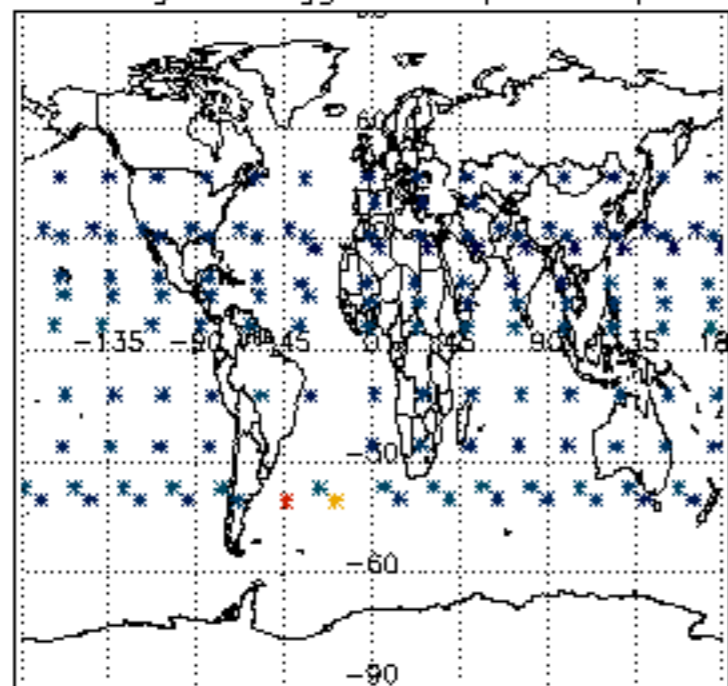
Percentage of flagged data per D3 profile



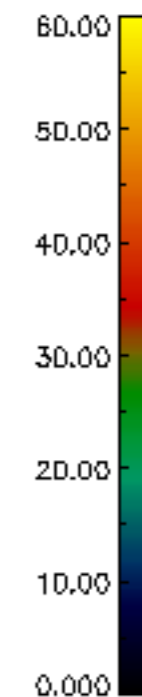
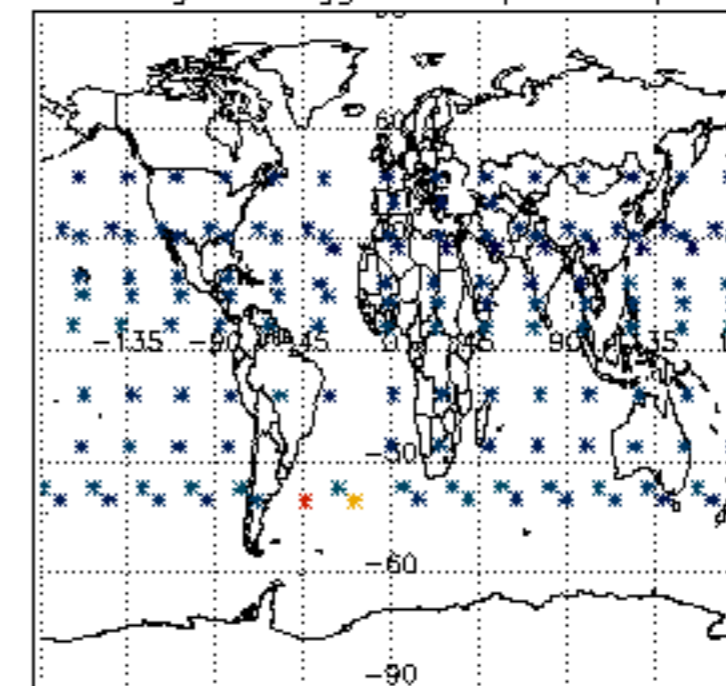
Percentage of flagged data per H2O profile

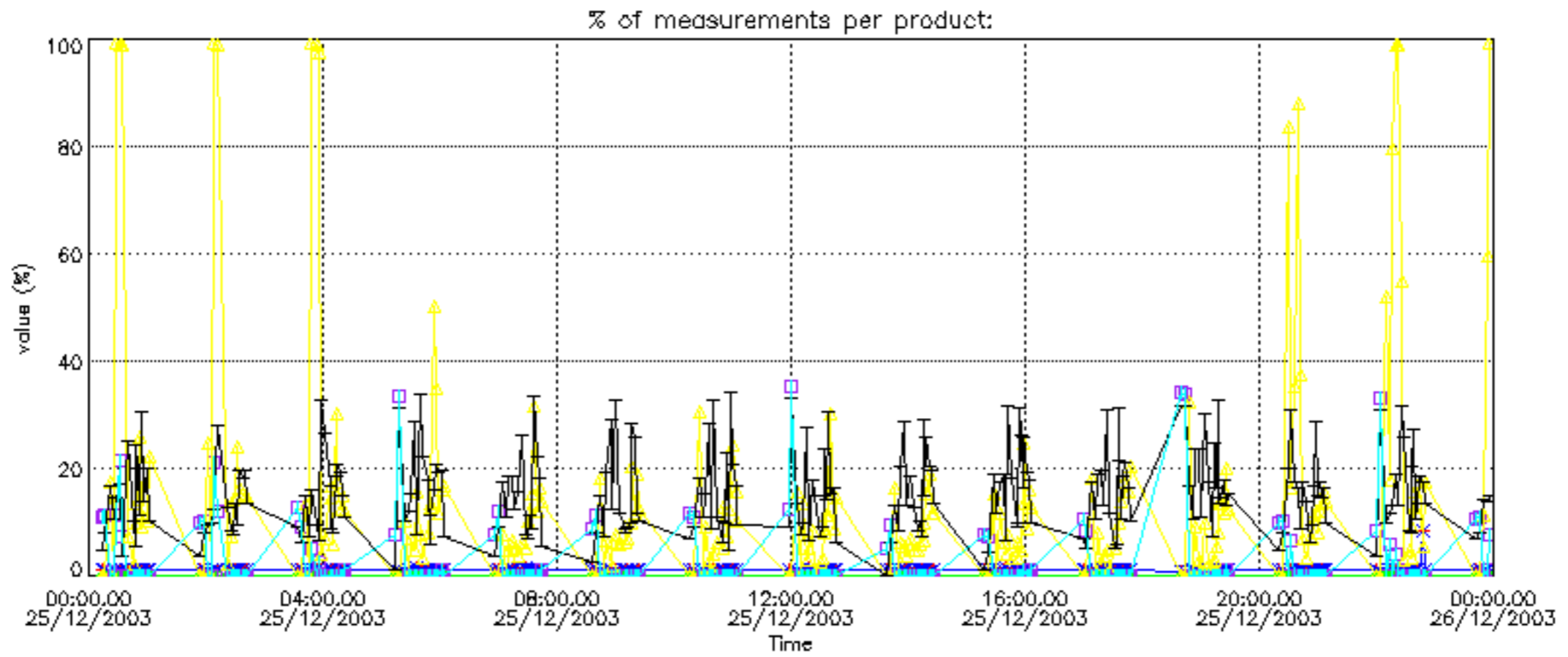


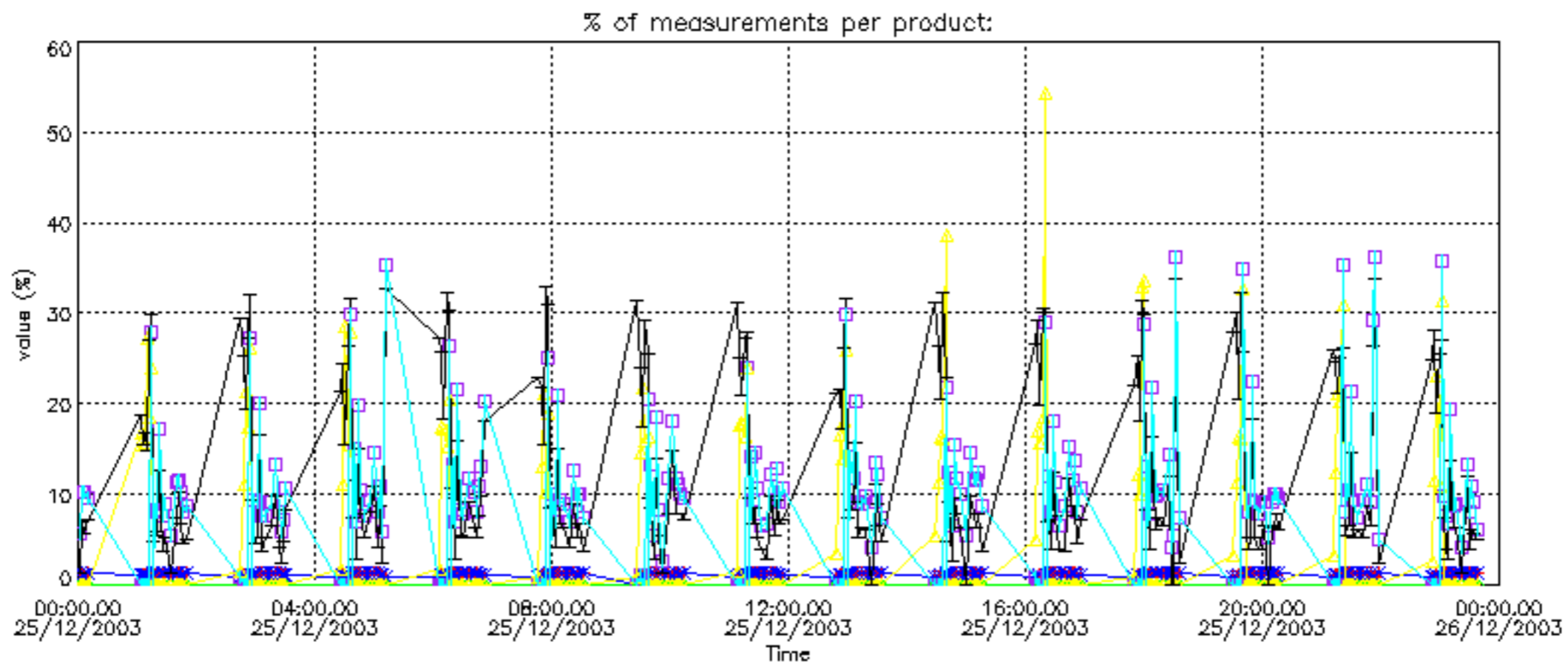
Percentage of flagged data per NO2 profile



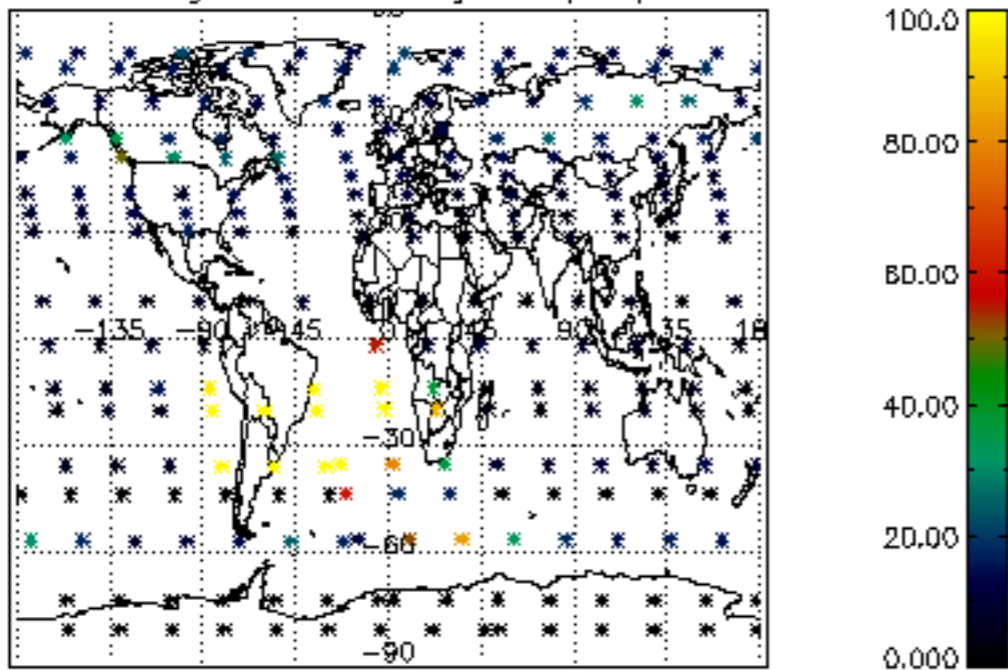
Percentage of flagged data per NO3 profile



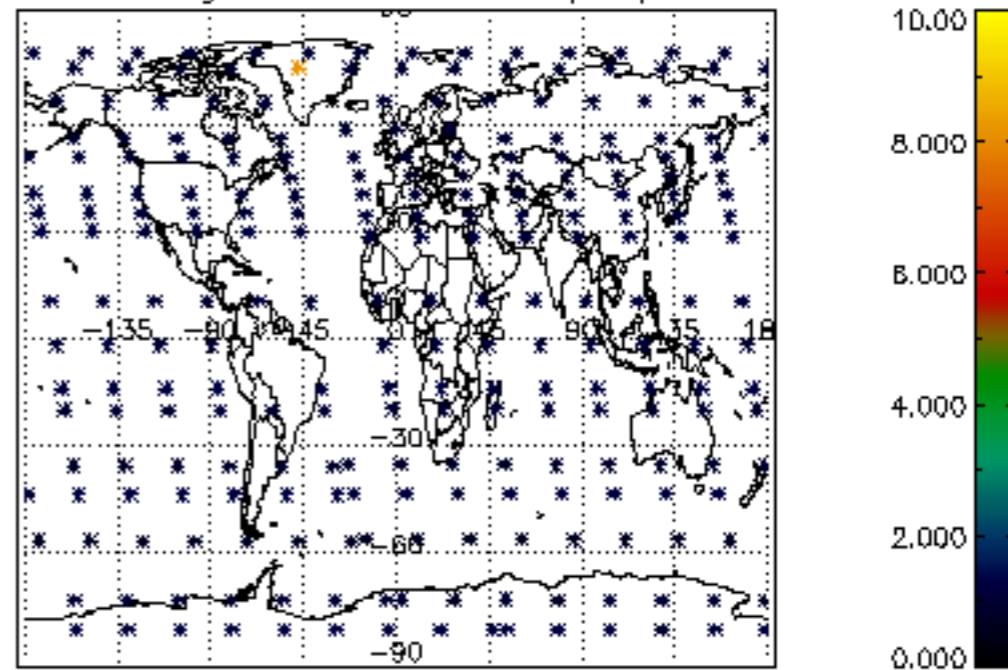




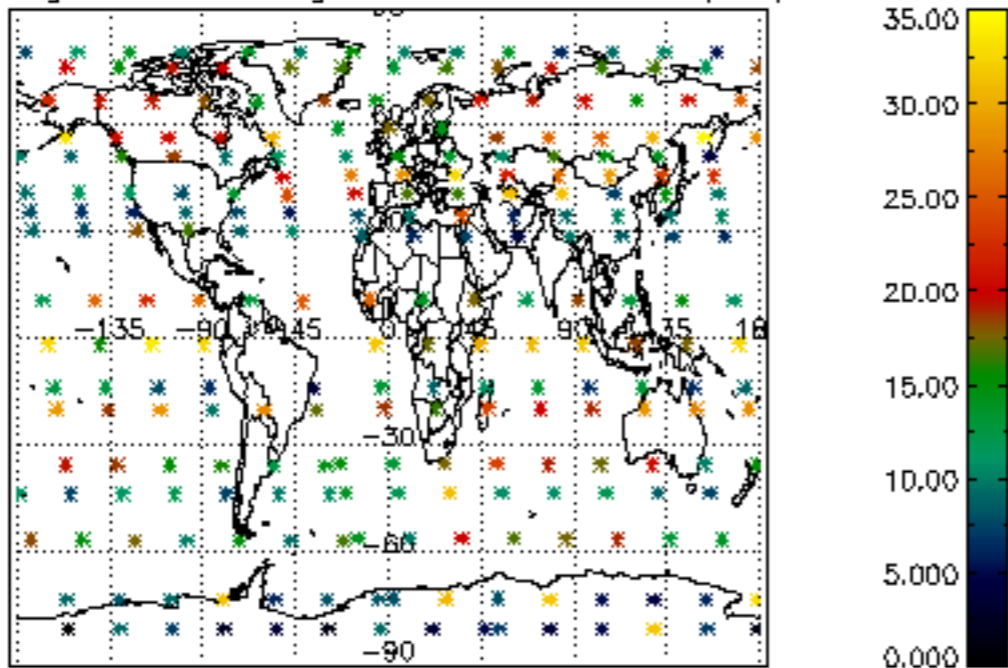
Percentage of cosmic ray hits per profile



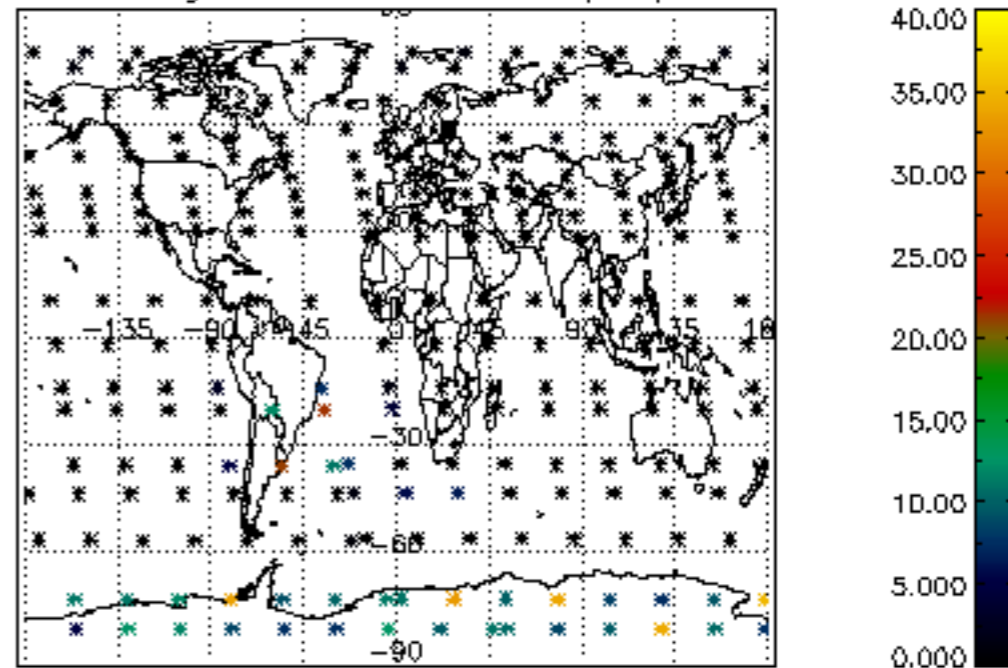
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

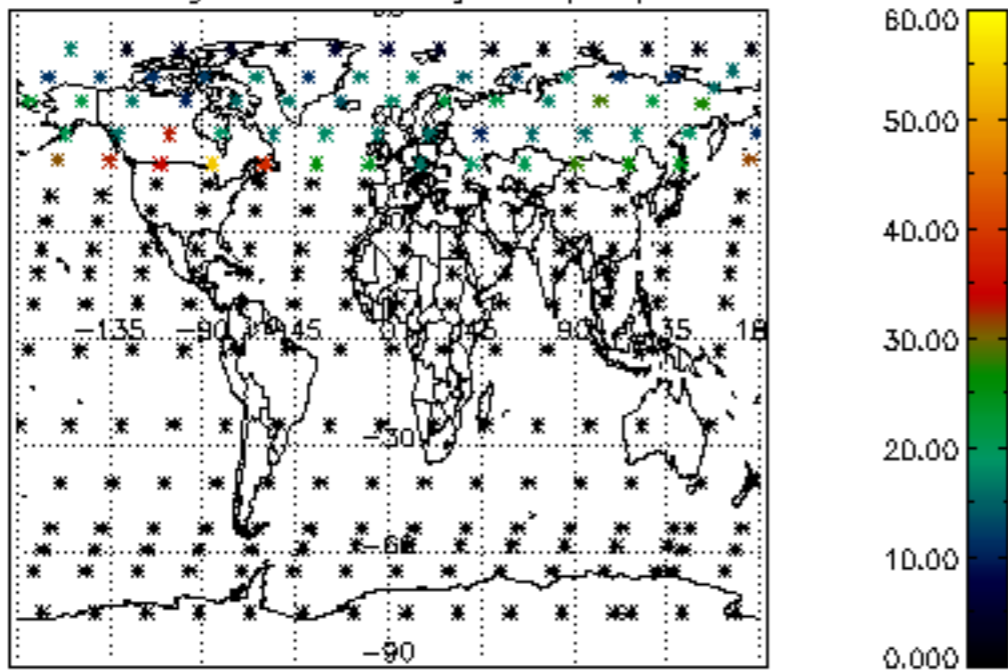


Percentage of saturation errors per profile

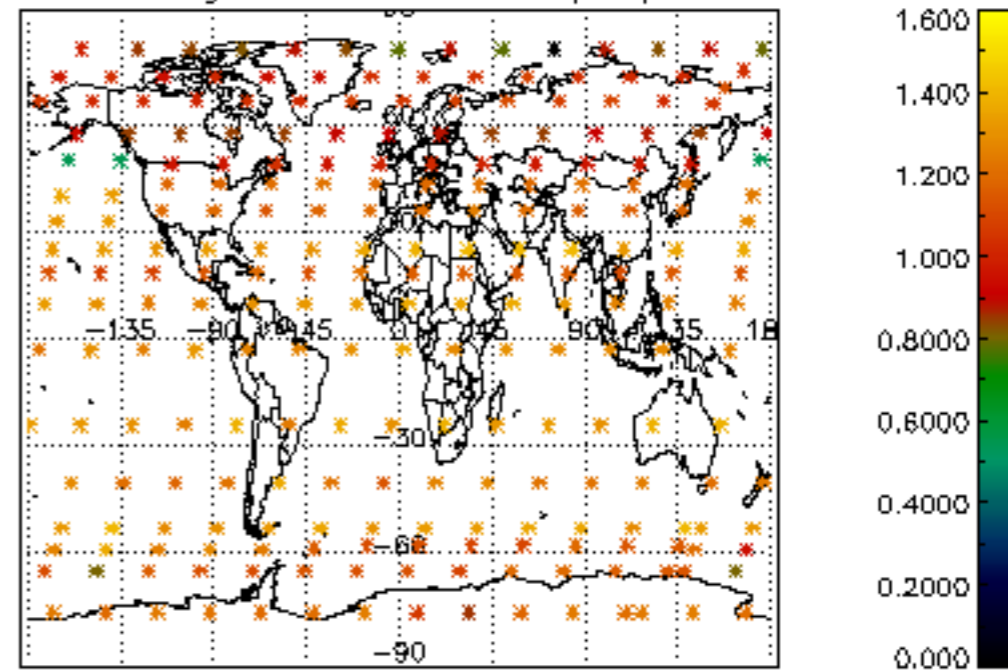




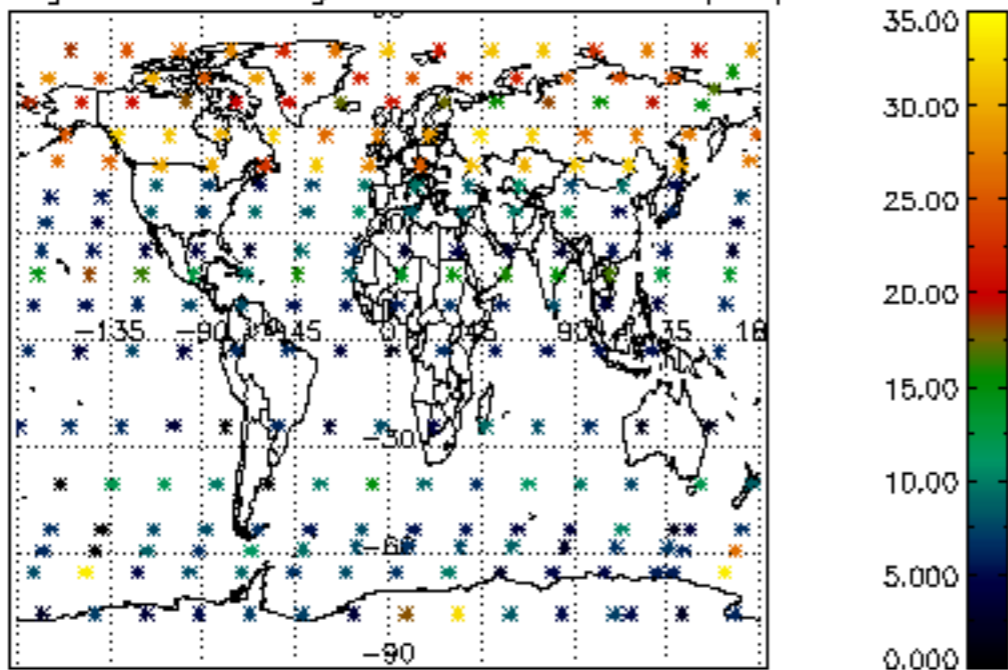
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

