

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 \(time dependant\)](#)

[3.2 Plot of level 2 quality information per product \(world map\)](#)

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

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

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

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

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

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

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

[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	24APR2013 10:42:43
Data source version	GOMOS/6.01
Start time of products	26-02-2011 (26FEB2011 00:00:00)
Stop time of products	27-02-2011 (27FEB2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	299
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

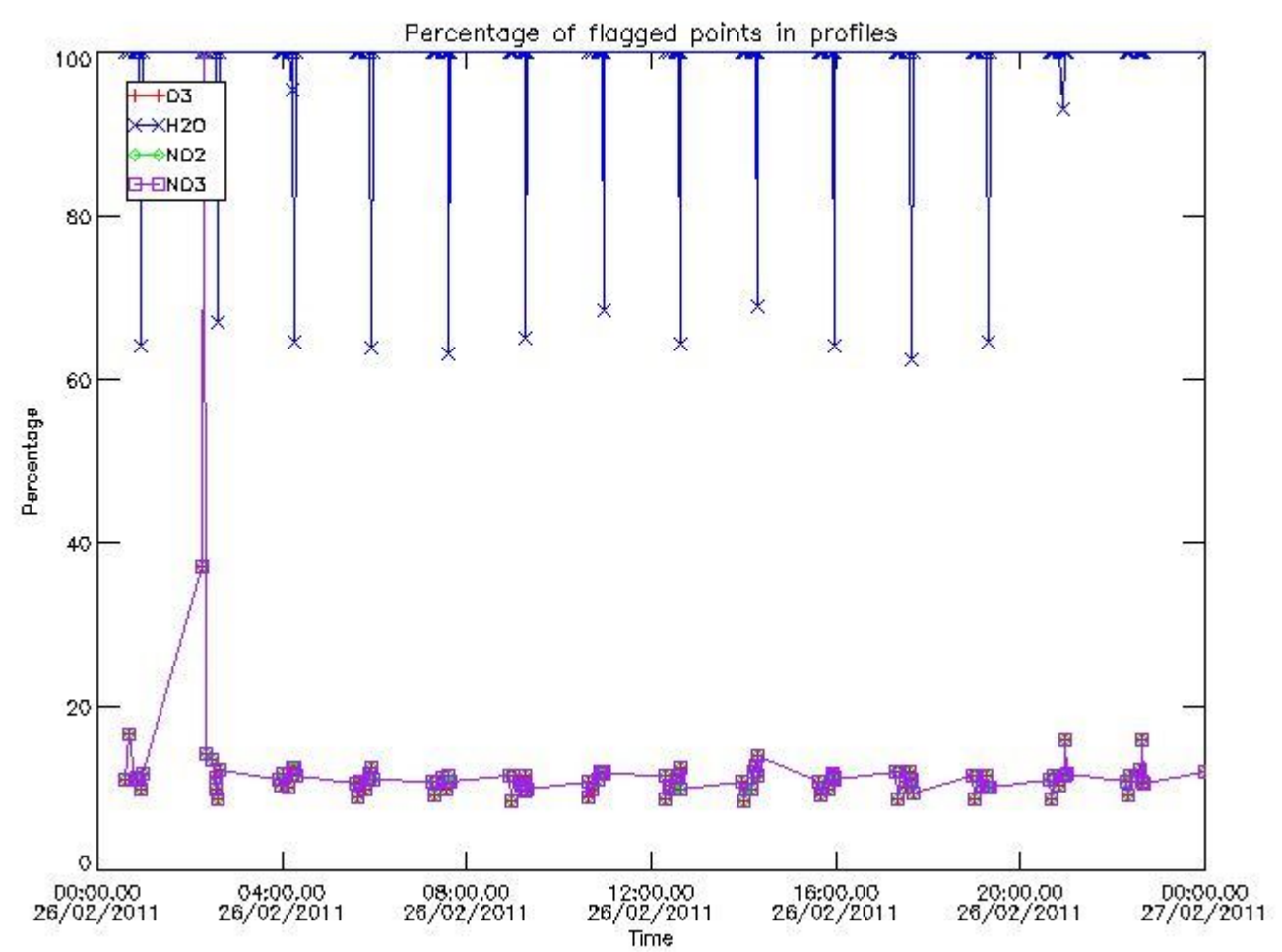
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110226_000211_000000413100_00016_47013_9982.N1	26-FEB-2011 00:02:11	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	47013	No
2	GOM_NL__2PRFIN20110226_000655_000000463100_00016_47013_9983.N1	26-FEB-2011 00:06:55	Bright	45.500	119	14Eta Dra	2.7270	4700.0	91	47013	No
3	GOM_NL__2PRFIN20110226_001110_000000453100_00016_47013_9984.N1	26-FEB-2011 00:11:10	Bright	45.000	130	23Bet Dra	2.7990	5800.0	90	47013	No
4	GOM_NL__2PRFIN20110226_001602_000000433100_00016_47013_9985.N1	26-FEB-2011 00:16:02	Bright	43.000	5	3Alp Lyr	0.033000	11000.	86	47013	No
5	GOM_NL__2PRFIN20110226_002326_000000383100_00016_47013_9986.N1	26-FEB-2011 00:23:26	Bright	37.500	168	17Zet Aql	2.9860	11000.	75	47013	No
6	GOM_NL__2PRFIN20110226_002625_000000633100_00016_47013_9987.N1	26-FEB-2011 00:26:25	Tw_i_and_stray	62.500	59	55Alp Oph	2.0800	8900.0	125	47013	No
7	GOM_NL__2PRFIN20110226_002853_000000643100_00016_47013_9988.N1	26-FEB-2011 00:28:53	Tw_i_and_stray	64.000	126	60Bet Oph	2.7700	4250.0	128	47013	No
8	GOM_NL__2PRFIN20110226_003532_000000463100_00016_47013_9989.N1	26-FEB-2011 00:35:32	Dark	45.500	137	22Lam Sgr	2.8240	4400.0	91	47013	No
9	GOM_NL__2PRFIN20110226_004036_000000493100_00016_47013_9990.N1	26-FEB-2011 00:40:36	Dark	49.000	25	35Lam Sco	1.6200	28000.	98	47013	No
10	GOM_NL__2PRFIN20110226_004821_000000503100_00017_47014_0134.N1	26-FEB-2011 00:48:21	Dark	50.000	131	Gam Lup	2.8000	26000.	100	47014	No
11	GOM_NL__2PRFIN20110226_005220_000000453100_00017_47014_0135.N1	26-FEB-2011 00:52:20	Dark	45.000	10	Bet Cen	0.61000	28000.	90	47014	No
12	GOM_NL__2PRFIN20110226_005402_000000463100_00017_47014_0136.N1	26-FEB-2011 00:54:02	Dark	45.500	77	Eps Cen	2.3030	28000.	91	47014	No
13	GOM_NL__2PRFIN20110226_005558_000000523100_00017_47014_0137.N1	26-FEB-2011 00:55:58	Dark	52.000	26	Gam Cru	1.6240	2900.0	104	47014	No
14	GOM_NL__2PRFIN20110226_005804_000000443100_00017_47014_0138.N1	26-FEB-2011 00:58:04	Dark	43.500	99	Del Cen	2.5750	26000.	87	47014	No
15	GOM_NL__2PRFIN20110226_011936_000000473100_00017_47014_0139.N1	26-FEB-2011 01:19:36	Bright	46.500	22	32Alp Leo	1.3600	15200.	93	47014	No
16	GOM_NL__2PRFIN20110226_012256_000000403100_00017_47014_0140.N1	26-FEB-2011 01:22:56	Bright	40.000	166	17Eps Leo	2.9800	6000.0	80	47014	No
17	GOM_NL__2PRFIN20110226_013126_000000463100_00017_47014_0141.N1	26-FEB-2011 01:31:26	Bright	45.500	174	52Psi UMa	3.0040	4400.0	91	47014	No
18	GOM_NL__2PRFIN20110226_013403_000000523100_00017_47014_0142.N1	26-FEB-2011 01:34:03	Bright	51.500	82	48Bet UMa	2.3650	10600.	103	47014	No
19	GOM_NL__2PRFIN20110226_013530_000000483100_00017_47014_0143.N1	26-FEB-2011 01:35:30	Bright	47.500	87	64Gam UMa	2.4330	11000.	95	47014	No
20	GOM_NL__2PRFIN20110226_013850_000000353100_00017_47014_0144.N1	26-FEB-2011 01:38:50	Tw_i_and_stray	35.000	32	77Eps UMa	1.7630	11000.	70	47014	No
21	GOM_NL__2PRFIN20110226_014225_000000393100_00017_47014_0145.N1	26-FEB-2011 01:42:25	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	47014	No
22	GOM_NL__2PRFIN20110226_014709_000000463100_00017_47014_0146.N1	26-FEB-2011 01:47:09	Bright	45.500	119	14Eta Dra	2.7270	4700.0	91	47014	No
23	GOM_NL__2PRFIN20110226_015124_000000453100_00017_47014_0147.N1	26-FEB-2011 01:51:24	Bright	44.500	130	23Bet Dra	2.7990	5800.0	89	47014	No
24	GOM_NL__2PRFIN20110226_015616_000000403100_00017_47014_0148.N1	26-FEB-2011 01:56:16	Bright	40.000	5	3Alp Lyr	0.033000	11000.	80	47014	No
25	GOM_NL__2PRFIN20110226_020340_000000573100_00017_47014_0149.N1	26-FEB-2011 02:03:40	Bright	57.000	168	17Zet Aql	2.9860	11000.	114	47014	No
26	GOM_NL__2PRFIN20110226_020639_000000663100_00017_47014_0150.N1	26-FEB-2011 02:06:39	Tw_i_and_stray	66.000	59	55Alp Oph	2.0800	8900.0	132	47014	No
27	GOM_NL__2PRFIN20110226_020908_000000603100_00017_47014_0151.N1	26-FEB-2011 02:09:08	Tw_i_and_stray	60.000	126	60Bet Oph	2.7700	4250.0	120	47014	No
28	GOM_NL__2PRFIN20110226_021547_000000453100_00017_47014_0152.N1	26-FEB-2011 02:15:47	Dark	45.000	137	22Lam Sgr	2.8240	4400.0	90	47014	No
29	GOM_NL__2PRFIN20110226_021729_000000583100_00017_47014_0153.N1	26-FEB-2011 02:17:29	Dark	58.000	86	35Eta Oph	2.4300	10200.	116	47014	No
30	GOM_NL__2PRFIN20110226_022051_000000473100_00017_47014_0154.N1	26-FEB-2011 02:20:51	Dark	46.500	25	35Lam Sco	1.6200	28000.	93	47014	No
31	GOM_NL__2PRFIN20110226_022836_000000533100_00018_47015_0196.N1	26-FEB-2011 02:28:36	Dark	52.500	131	Gam Lup	2.8000	26000.	105	47015	No
32	GOM_NL__2PRFIN20110226_023234_000000523100_00018_47015_0197.N1	26-FEB-2011 02:32:34	Dark	52.000	10	Bet Cen	0.61000	28000.	104	47015	No
33	GOM_NL__2PRFIN20110226_023417_000000453100_00018_47015_0198.N1	26-FEB-2011 02:34:17	Dark	45.000	77	Eps Cen	2.3030	28000.	90	47015	No
34	GOM_NL__2PRFIN20110226_023613_000000583100_00018_47015_0199.N1	26-FEB-2011 02:36:13	Dark	58.000	26	Gam Cru	1.6240	2900.0	116	47015	No
35	GOM_NL__2PRFIN20110226_023819_000000423100_00018_47015_0200.N1	26-FEB-2011 02:38:19	Dark	41.500	99	Del Cen	2.5750	26000.	83	47015	No
36	GOM_NL__2PRFIN20110226_025950_000000423100_00018_47015_0201.N1	26-FEB-2011 02:59:50	Bright	42.000	22	32Alp Leo	1.3600	15200.	84	47015	No
37	GOM_NL__2PRFIN20110226_030310_000000473100_00018_47015_0202.N1	26-FEB-2011 03:03:10	Bright	47.000	166	17Eps Leo	2.9800	6000.0	94	47015	No
38	GOM_NL__2PRFIN20110226_031139_000000473100_00018_47015_0203.N1	26-FEB-2011 03:11:39	Bright	47.000	174	52Psi UMa	3.0040	4400.0	94	47015	No
39	GOM_NL__2PRFIN20110226_031416_000000423100_00018_47015_0204.N1	26-FEB-2011 03:14:16	Bright	41.500	82	48Bet UMa	2.3650	10600.	83	47015	No
40	GOM_NL__2PRFIN20110226_031543_000000483100_00018_47015_0205.N1	26-FEB-2011 03:15:43	Bright	48.000	87	64Gam UMa	2.4330	11000.	96	47015	No
41	GOM_NL__2PRFIN20110226_031903_000000353100_00018_47015_0206.N1	26-FEB-2011 03:19:03	Tw_i_and_stray	35.000	32	77Eps UMa	1.7630	11000.	70	47015	No
42	GOM_NL__2PRFIN20110226_032238_000000413100_00018_47015_0207.N1	26-FEB-2011 03:22:38	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	47015	No

279	GOM_NL__2PRFIN20110226_221842_000000473100_00029_47026_0714.N1	26-FEB-2011 22:18:42	Dark	46.500	137	22Lam Sgr	2.8240	4400.0	93	47026	No
280	GOM_NL__2PRFIN20110226_222033_000000563100_00029_47026_0715.N1	26-FEB-2011 22:20:33	Dark	56.000	86	35Eta Oph	2.4300	10200.	112	47026	No
281	GOM_NL__2PRFIN20110226_222348_000000453100_00029_47026_0716.N1	26-FEB-2011 22:23:48	Dark	44.500	25	35Lam Sco	1.6200	28000.	89	47026	No
282	GOM_NL__2PRFIN20110226_223138_000000533100_00030_47027_0700.N1	26-FEB-2011 22:31:38	Dark	53.000	131	Gam Lup	2.8000	26000.	106	47027	No
283	GOM_NL__2PRFIN20110226_223530_000000423100_00030_47027_0701.N1	26-FEB-2011 22:35:30	Dark	41.500	10	Bet Cen	0.61000	28000.	83	47027	No
284	GOM_NL__2PRFIN20110226_223713_000000473100_00030_47027_0702.N1	26-FEB-2011 22:37:13	Dark	47.000	77	Eps Cen	2.3030	28000.	94	47027	No
285	GOM_NL__2PRFIN20110226_223853_000000323100_00030_47027_0703.N1	26-FEB-2011 22:38:53	Dark	32.000	54	5The Cen	2.0550	4500.0	64	47027	No
286	GOM_NL__2PRFIN20110226_224028_000000493100_00030_47027_0704.N1	26-FEB-2011 22:40:28	Dark	48.500	64	Gam Cen	2.2000	10600.	97	47027	No
287	GOM_NL__2PRFIN20110226_230236_000000453100_00030_47027_0705.N1	26-FEB-2011 23:02:36	Bright	45.000	22	32Alp Leo	1.3600	15200.	90	47027	No
288	GOM_NL__2PRFIN20110226_230516_000000463100_00030_47027_0706.N1	26-FEB-2011 23:05:16	Bright	46.000	51	41Gam1Leo	2.0100	4500.0	92	47027	No
289	GOM_NL__2PRFIN20110226_231419_000000463100_00030_47027_0707.N1	26-FEB-2011 23:14:19	Bright	45.500	174	52Psi UMa	3.0040	4400.0	91	47027	No
290	GOM_NL__2PRFIN20110226_231659_000000413100_00030_47027_0708.N1	26-FEB-2011 23:16:59	Bright	41.000	82	48Bet UMa	2.3650	10600.	82	47027	No
291	GOM_NL__2PRFIN20110226_231822_000000473100_00030_47027_0709.N1	26-FEB-2011 23:18:22	Bright	47.000	87	64Gam UMa	2.4330	11000.	94	47027	No
292	GOM_NL__2PRFIN20110226_232141_000000493100_00030_47027_0710.N1	26-FEB-2011 23:21:41	Bright	49.000	32	77Eps UMa	1.7630	11000.	98	47027	No
293	GOM_NL__2PRFIN20110226_232523_000000373100_00030_47027_0711.N1	26-FEB-2011 23:25:23	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	47027	No
294	GOM_NL__2PRFIN20110226_233005_000000463100_00030_47027_0712.N1	26-FEB-2011 23:30:05	Bright	45.500	119	14Eta Dra	2.7270	4700.0	91	47027	No
295	GOM_NL__2PRFIN20110226_233423_000000453100_00030_47027_0713.N1	26-FEB-2011 23:34:23	Bright	44.500	130	23Bet Dra	2.7990	5800.0	89	47027	No
296	GOM_NL__2PRFIN20110226_233919_000000423100_00030_47027_0714.N1	26-FEB-2011 23:39:19	Bright	41.500	5	3Alp Lyr	0.033000	11000.	83	47027	No
297	GOM_NL__2PRFIN20110226_234646_000000393100_00030_47027_0715.N1	26-FEB-2011 23:46:46	Bright	39.000	168	17Zet Aql	2.9860	11000.	78	47027	No
298	GOM_NL__2PRFIN20110226_235221_000000603100_00030_47027_0716.N1	26-FEB-2011 23:52:21	Straylight	60.000	126	60Bet Oph	2.7700	4250.0	120	47027	No
299	GOM_NL__2PRFIN20110226_235857_000000473100_00030_47027_0717.N1	26-FEB-2011 23:58:57	Dark	46.500	137	22Lam Sgr	2.8240	4400.0	93	47027	No

3. Quality information per product

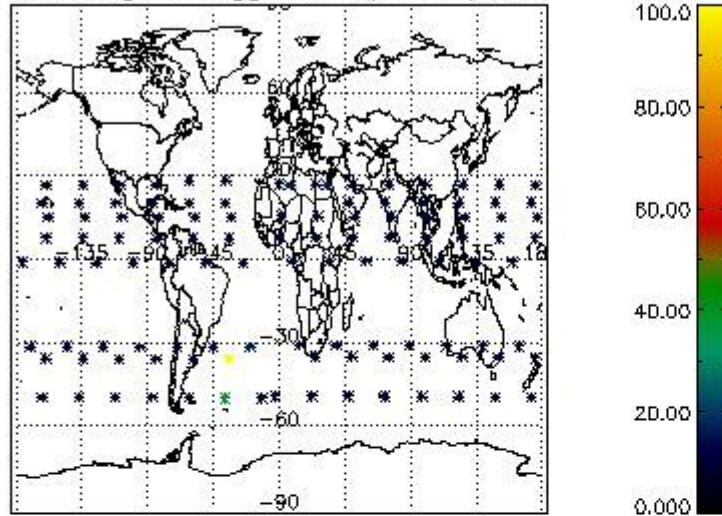
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

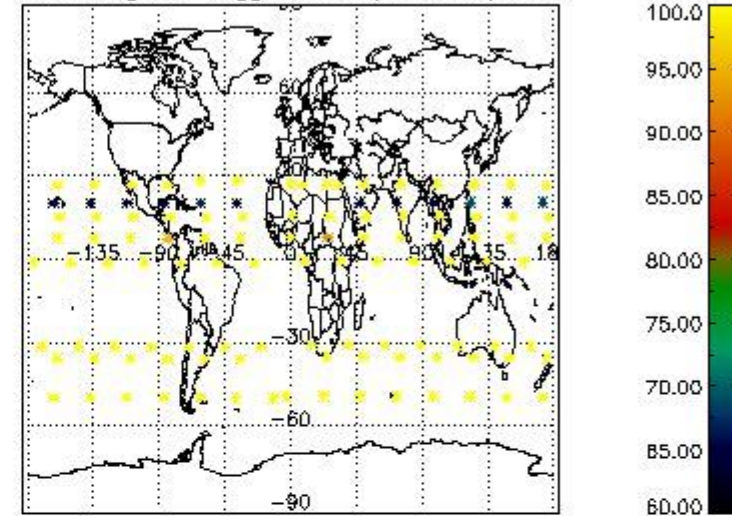


3.2 Plot quality information per product (world map)

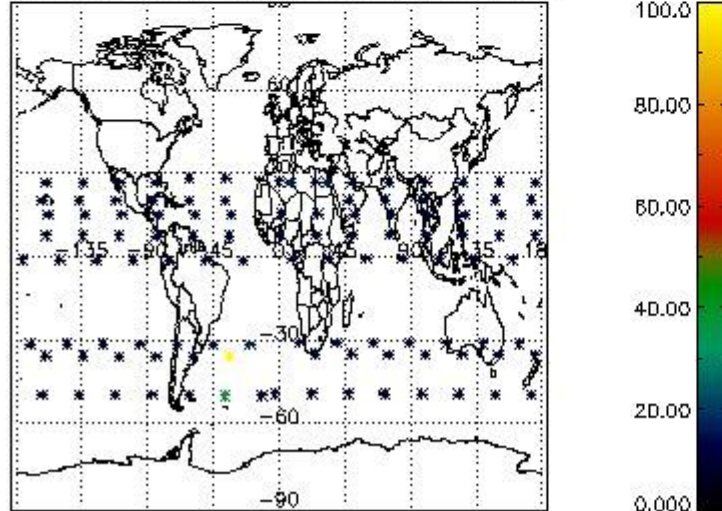
Percentage of flagged data per O3 profile



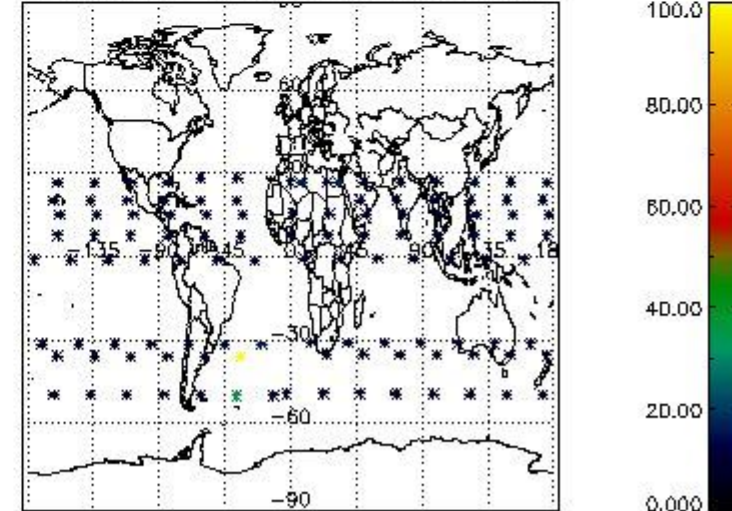
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

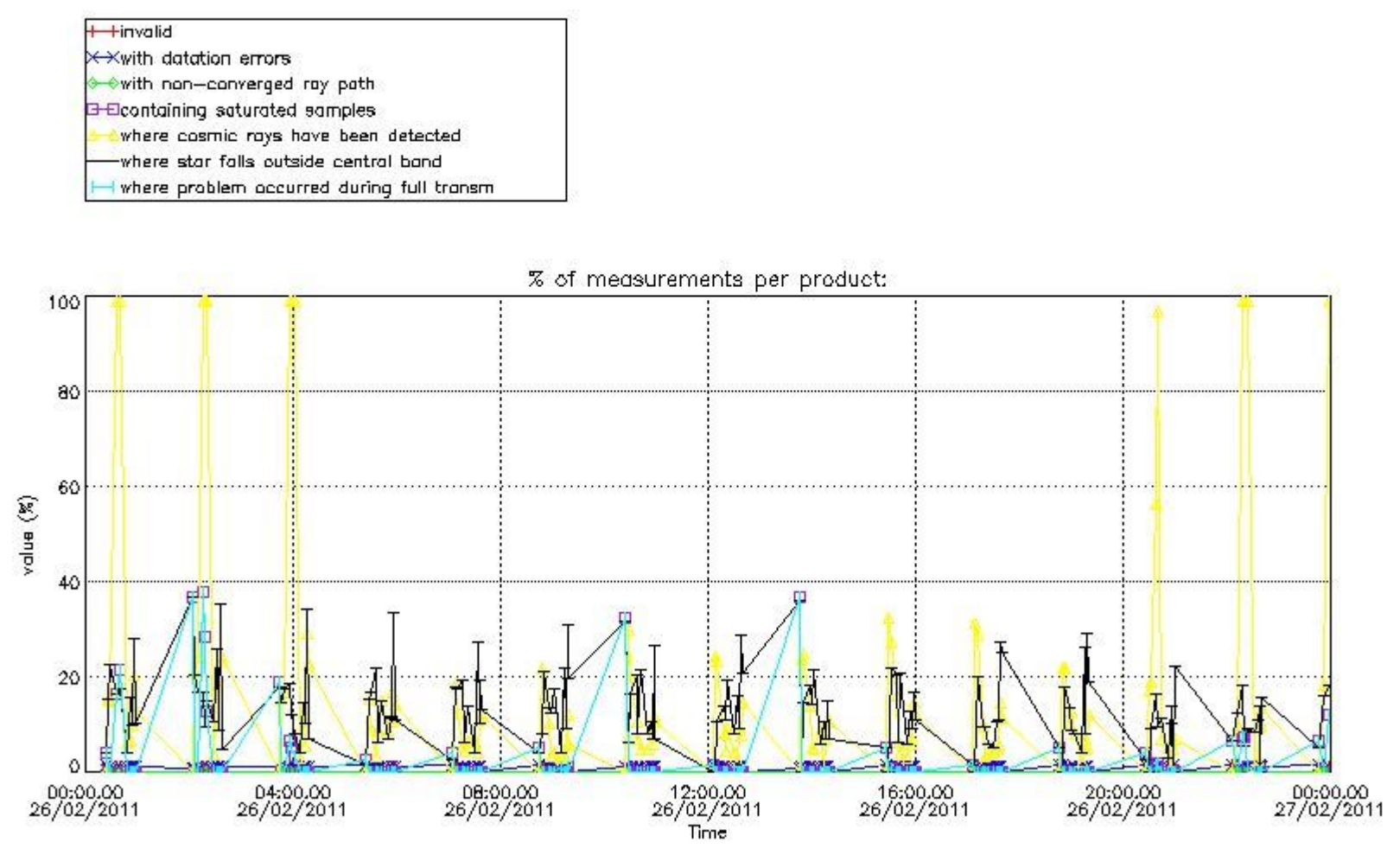


4. Level 1 quality information per product

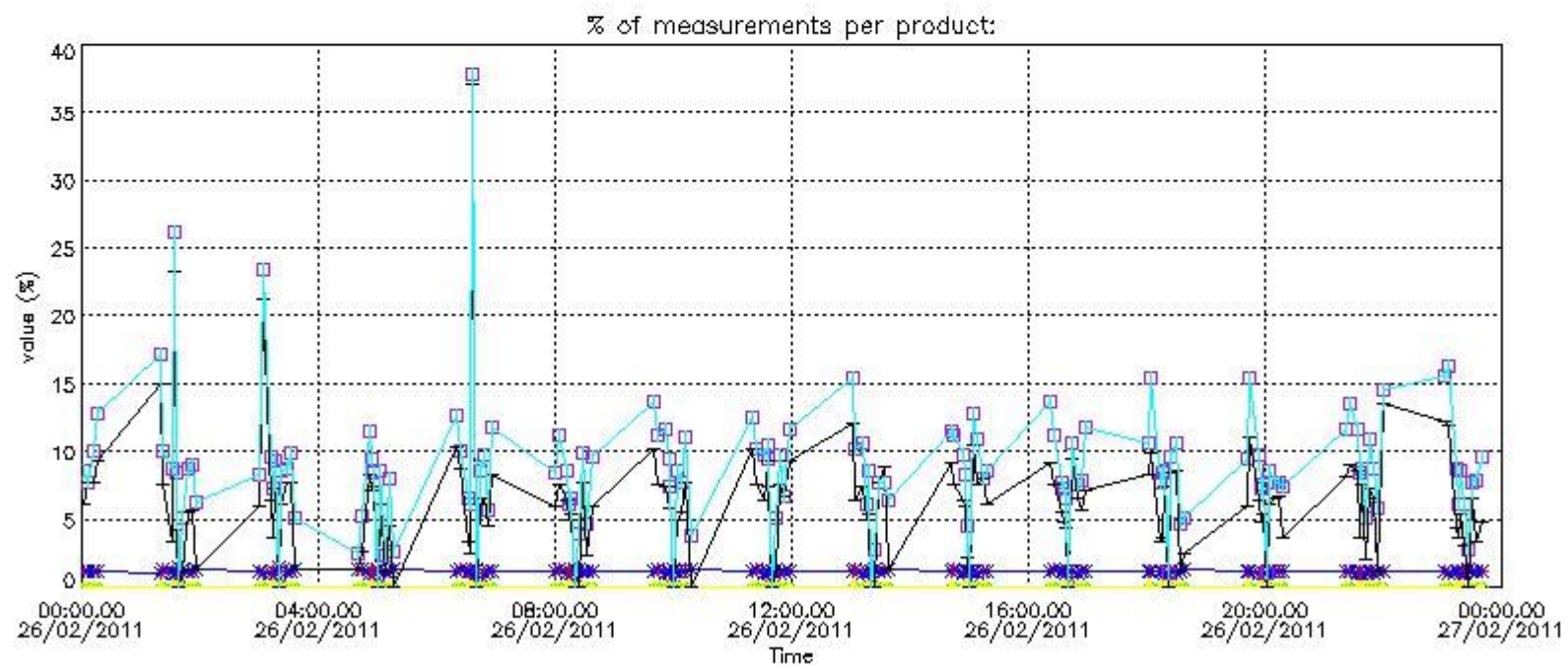
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

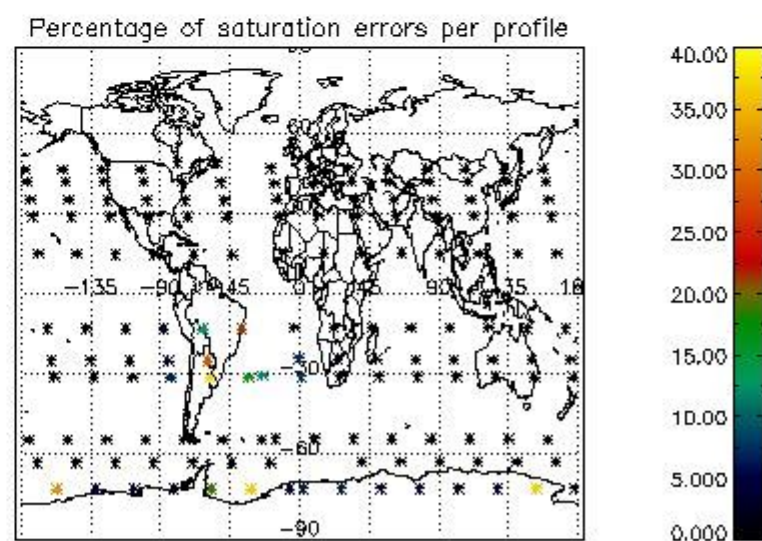
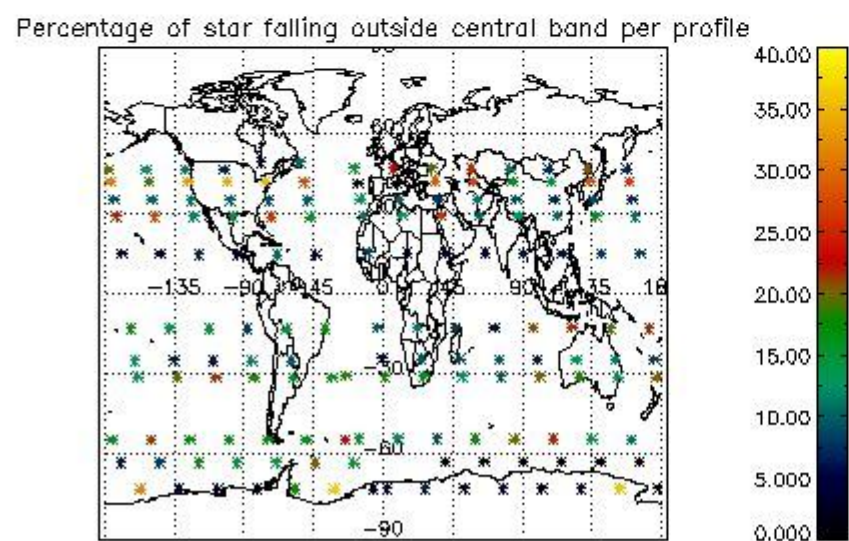
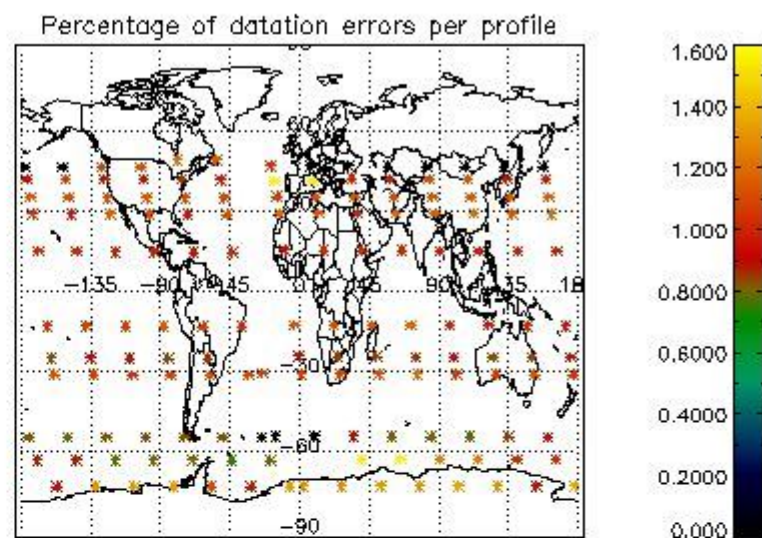
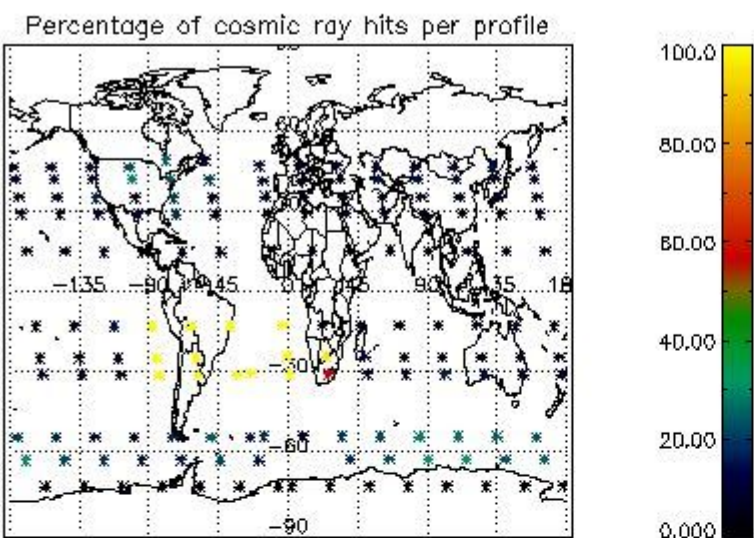


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

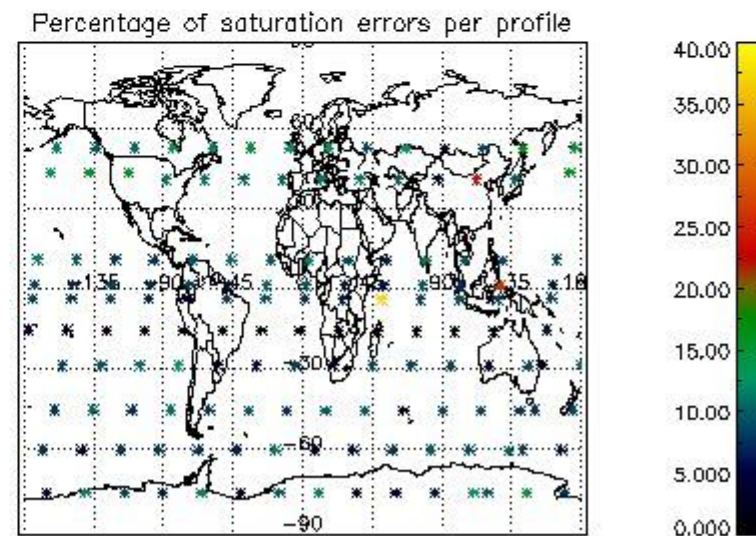
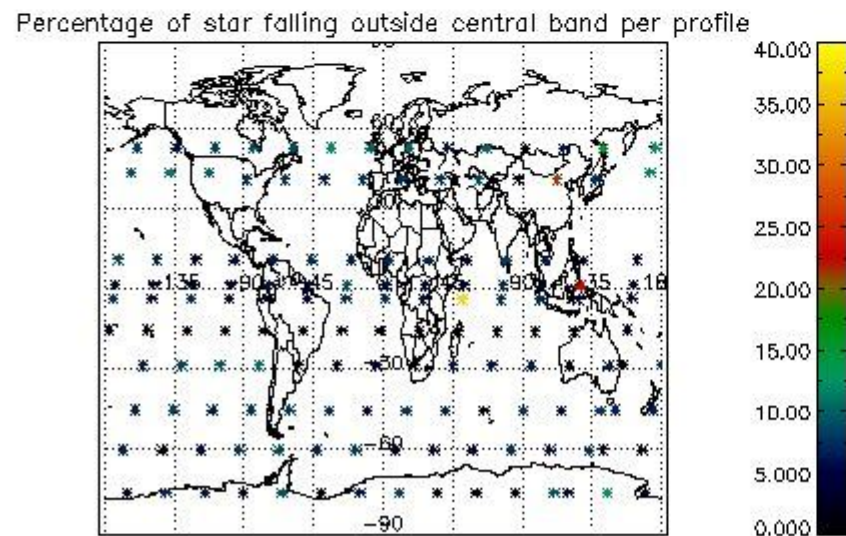
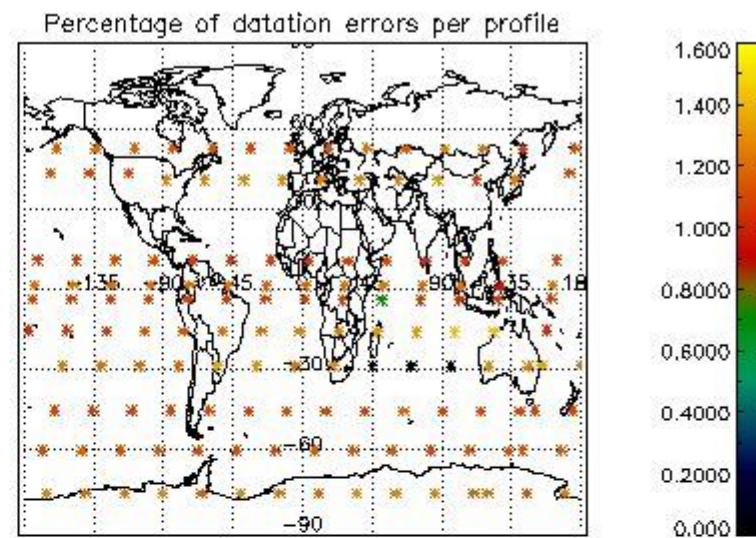
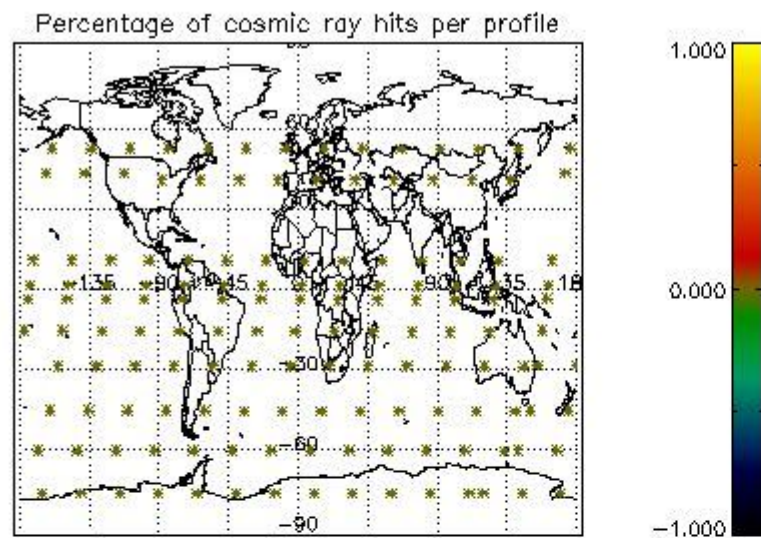


4.2 Plot quality information per product coming from level 1b processing (world map)

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

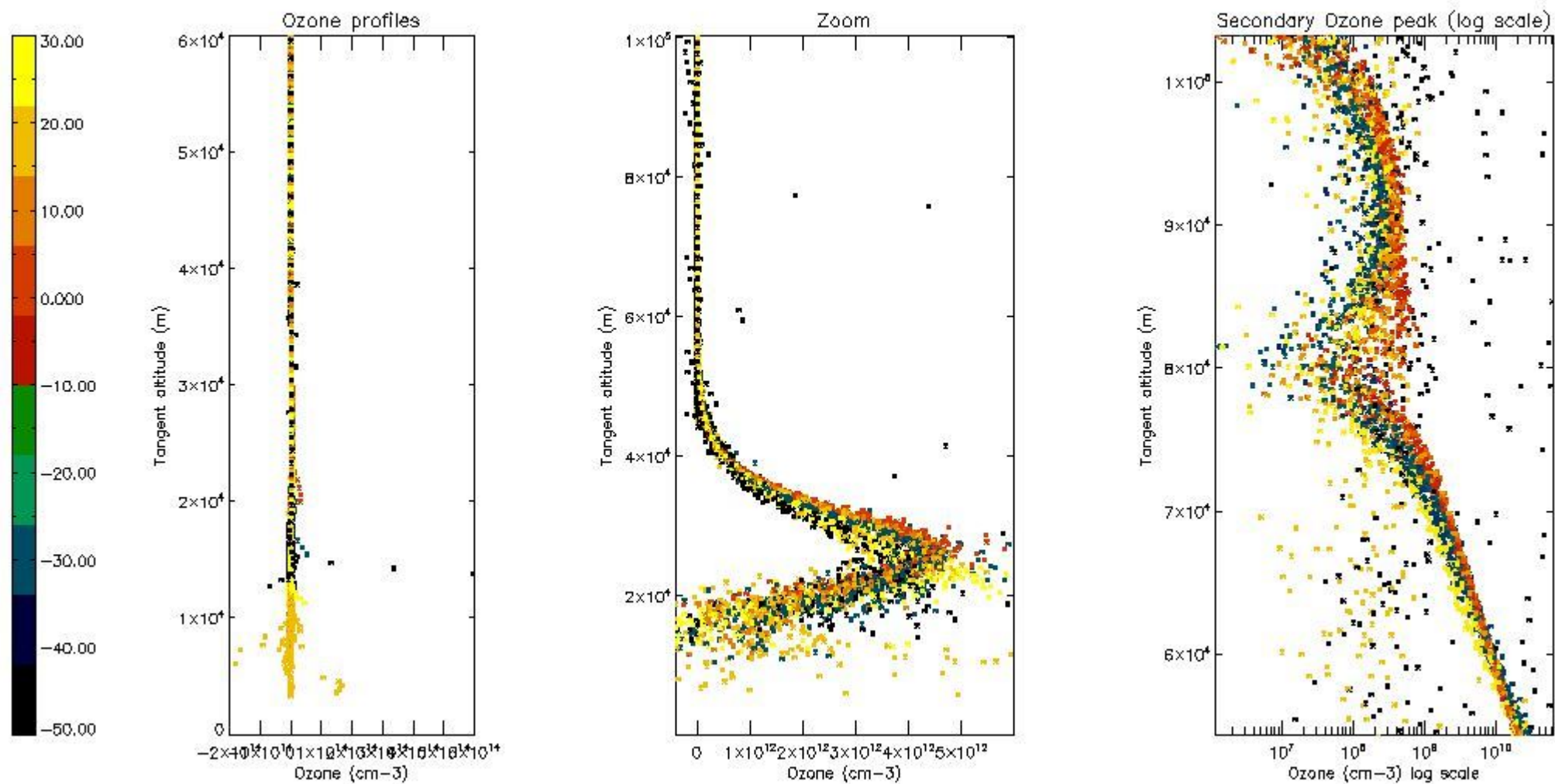
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	39
STD < 20	21

STD < 10	16
STD < 5	11

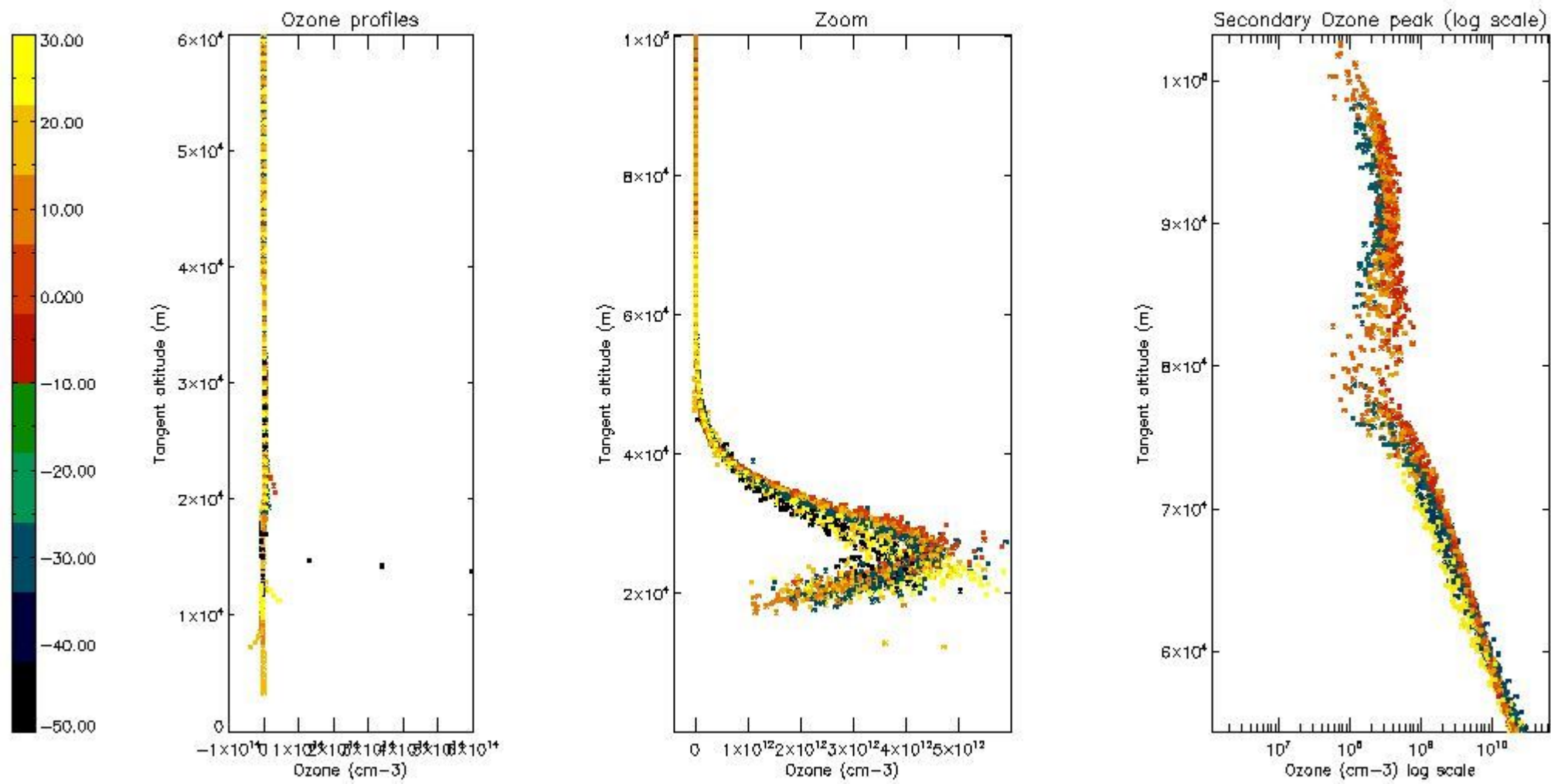
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



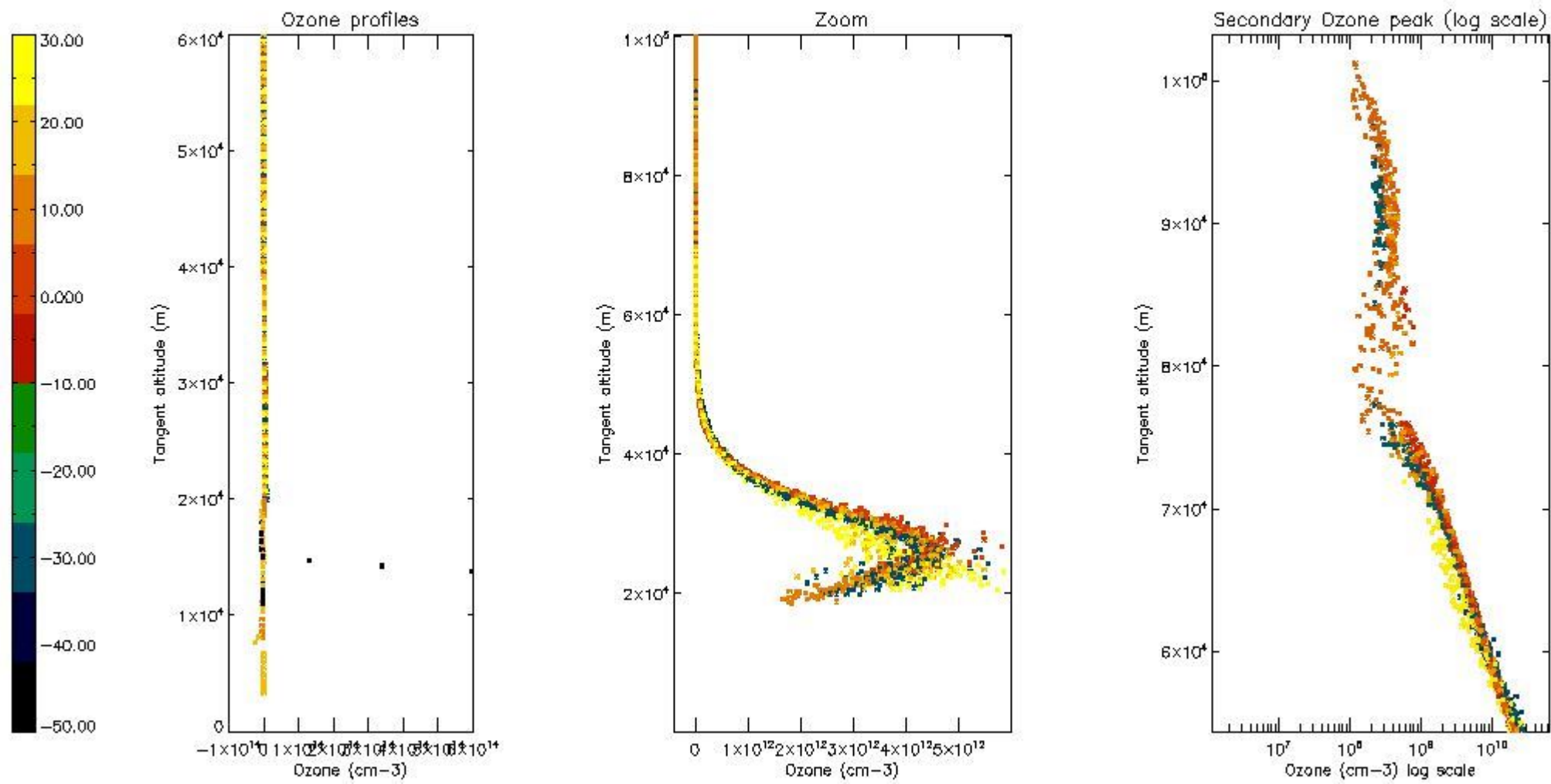
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



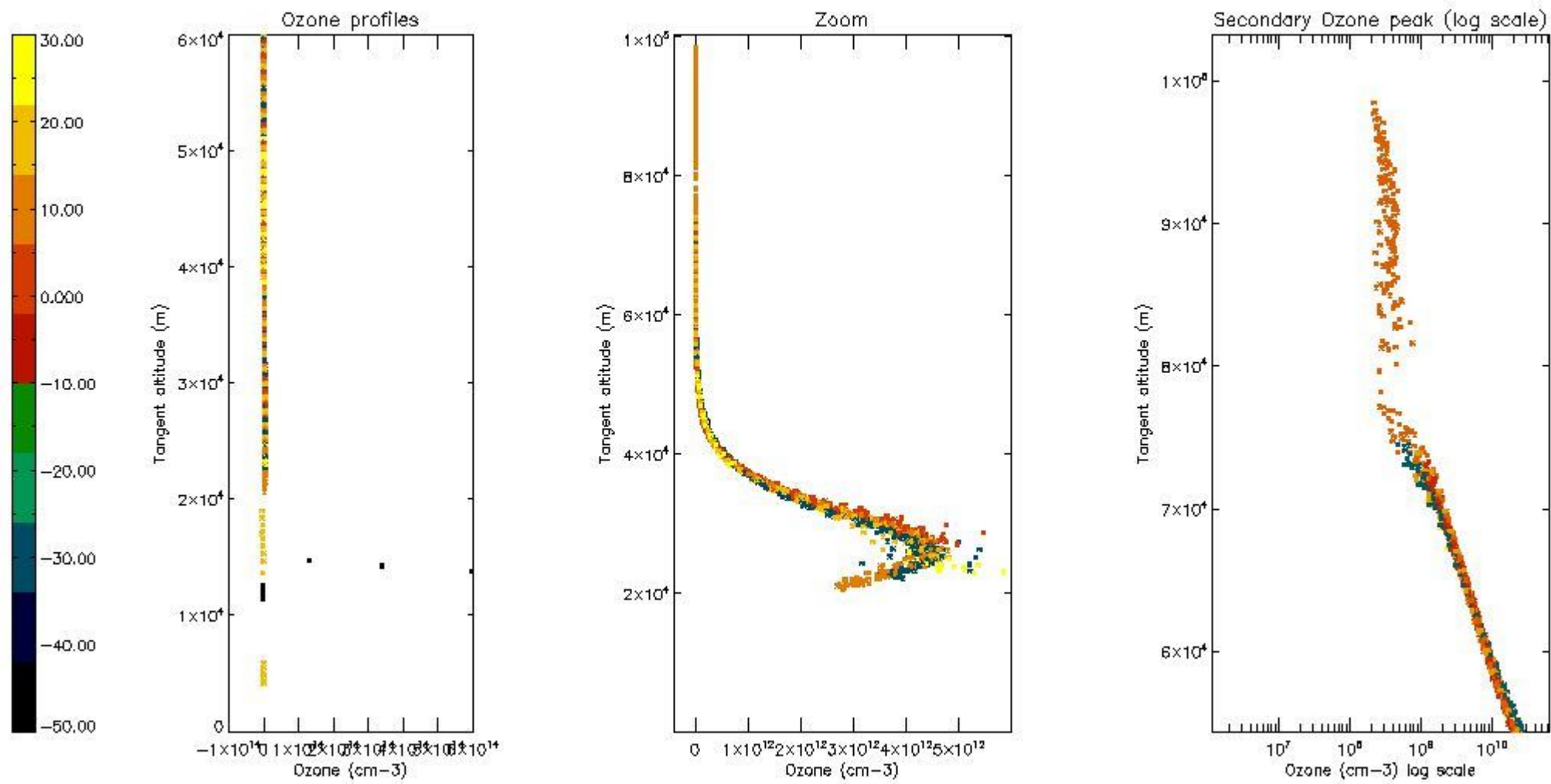
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



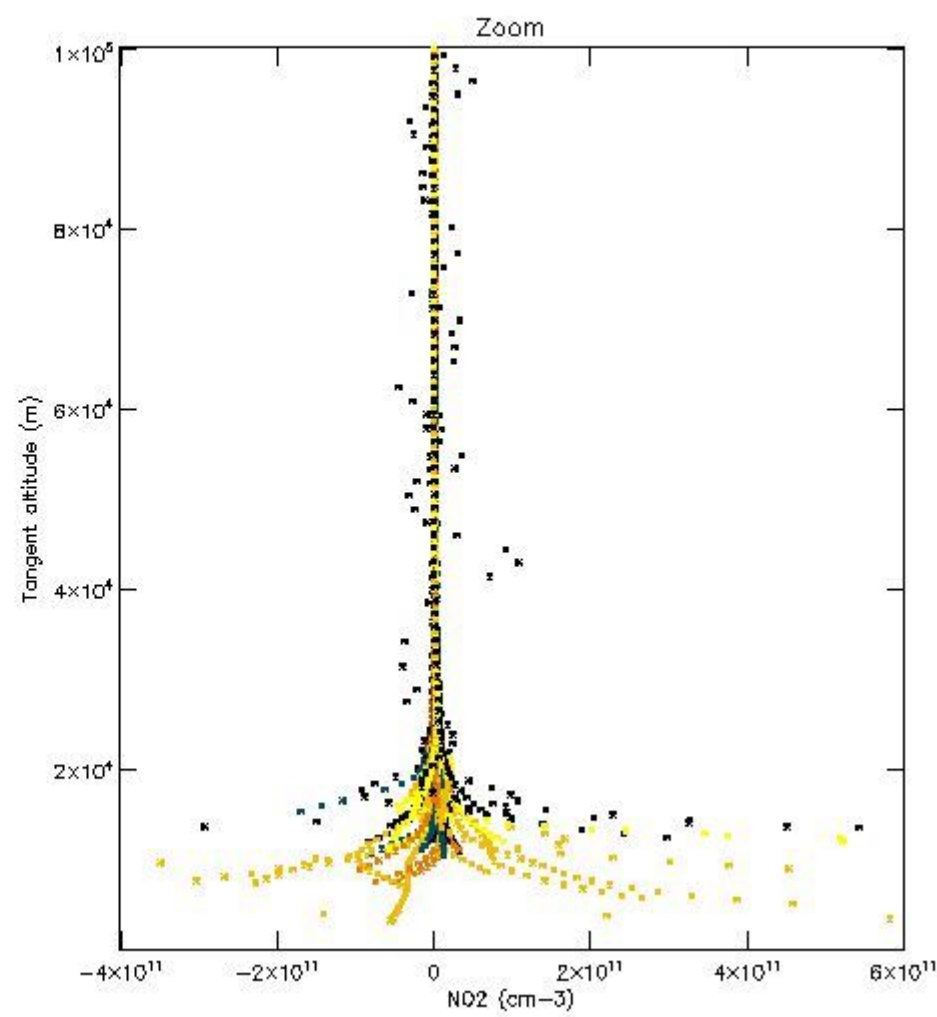
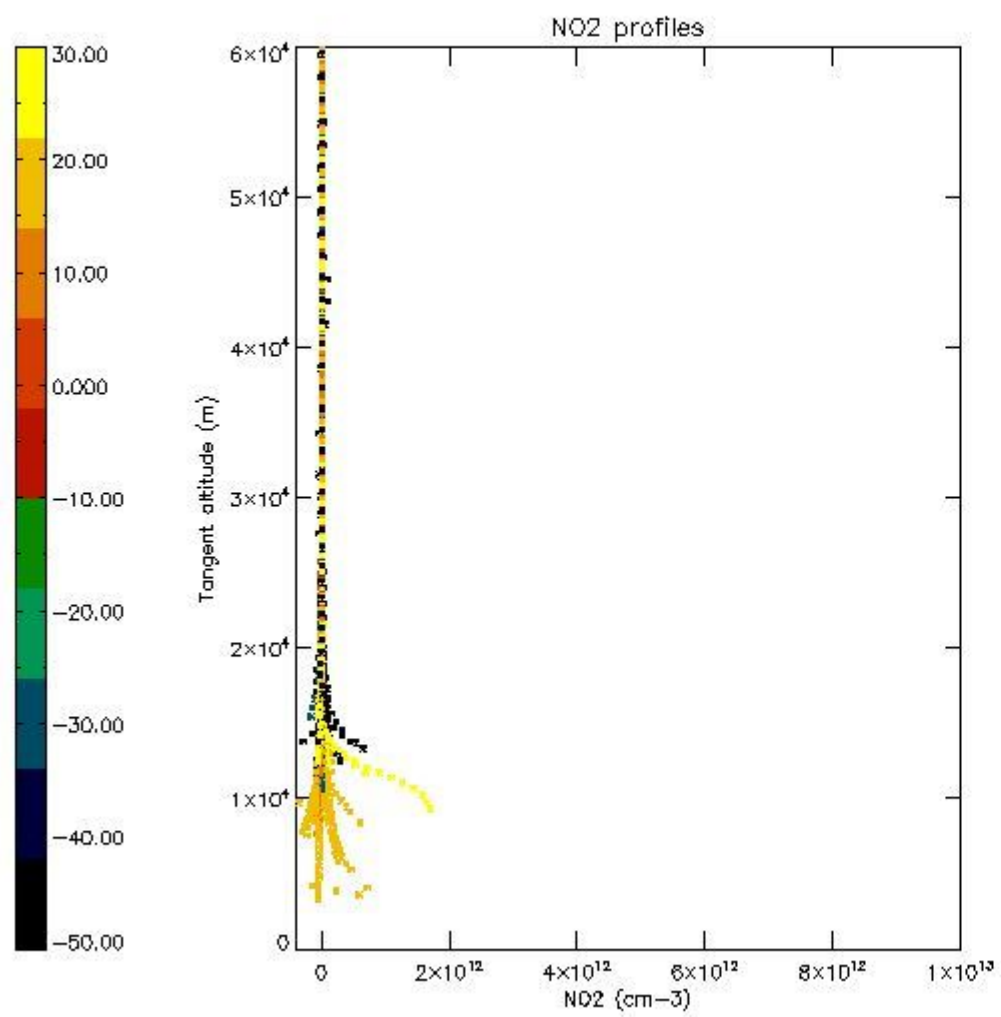
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



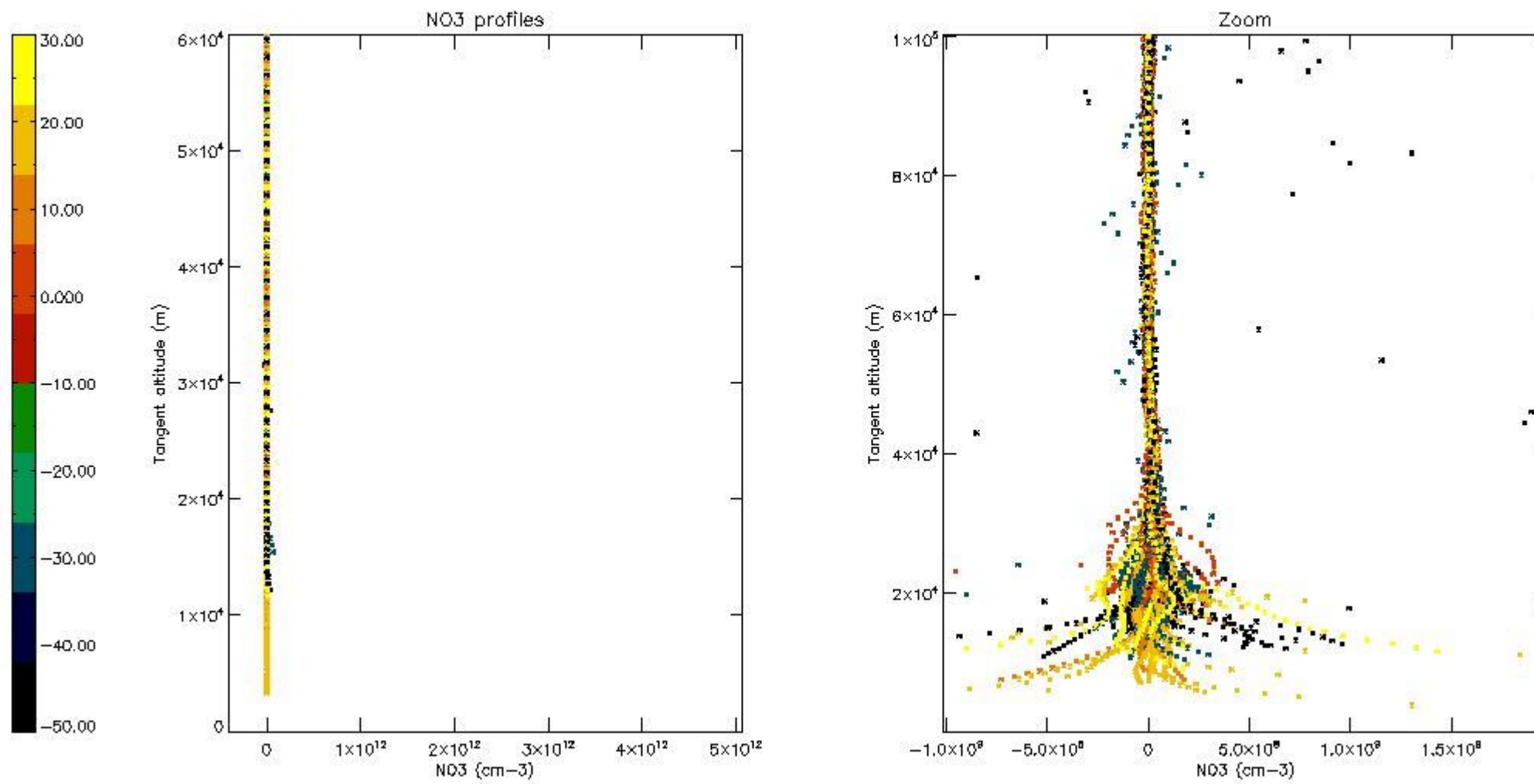
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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	26-FEB-2011 00:02:11
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	26-FEB-2011 00:02:11
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	26-FEB-2011 00:02:11

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 \(time dependant\)](#)

[3.2 Plot of level 2 quality information per product \(world map\)](#)

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

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

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

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

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

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

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

[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	24APR2013 10:42:43
Data source version	GOMOS/6.01
Start time of products	26-02-2011 (26FEB2011 00:00:00)
Stop time of products	27-02-2011 (27FEB2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	299
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

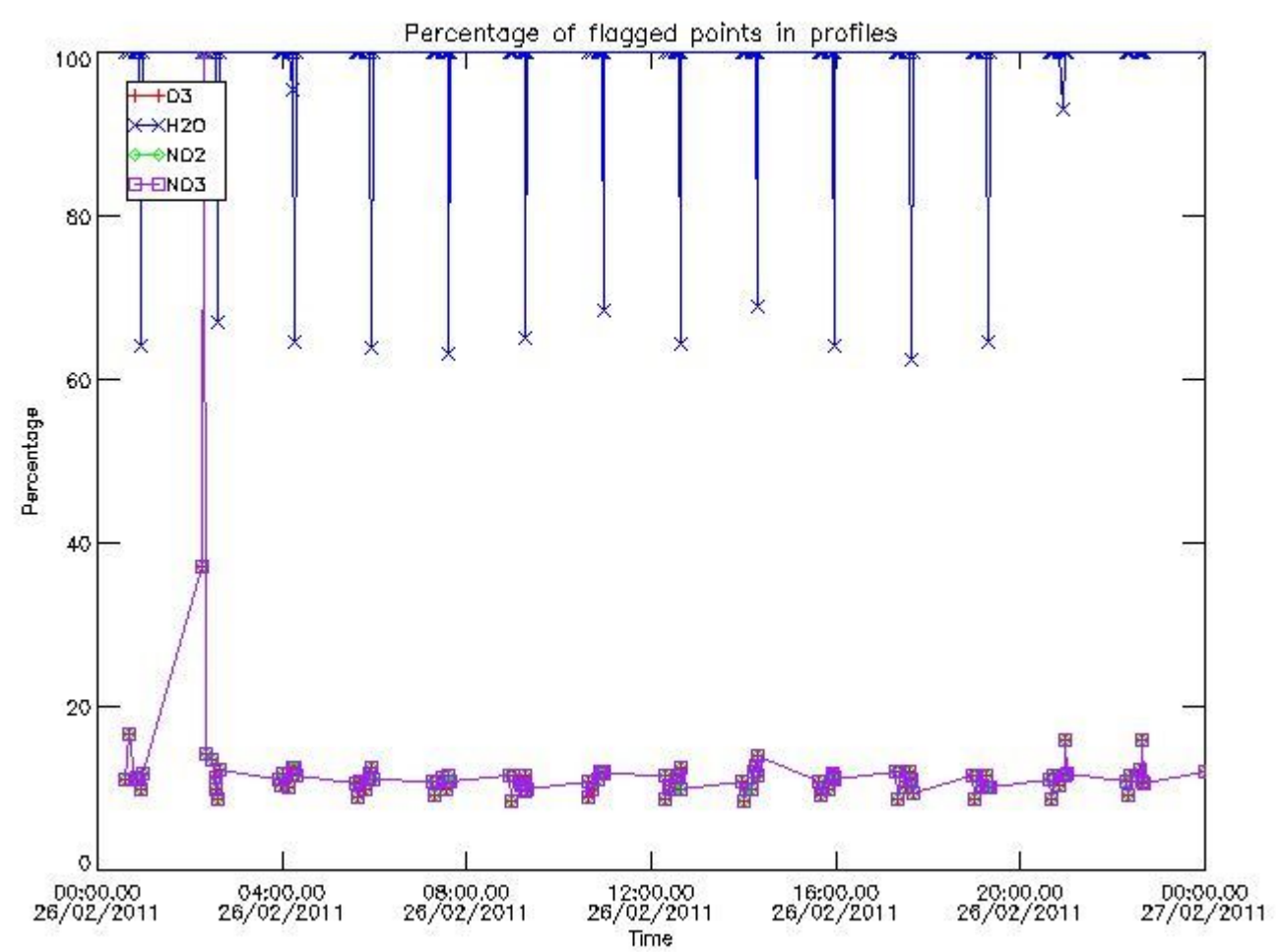
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110226_000211_000000413100_00016_47013_9982.N1	26-FEB-2011 00:02:11	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	47013	No
2	GOM_NL__2PRFIN20110226_000655_000000463100_00016_47013_9983.N1	26-FEB-2011 00:06:55	Bright	45.500	119	14Eta Dra	2.7270	4700.0	91	47013	No
3	GOM_NL__2PRFIN20110226_001110_000000453100_00016_47013_9984.N1	26-FEB-2011 00:11:10	Bright	45.000	130	23Bet Dra	2.7990	5800.0	90	47013	No
4	GOM_NL__2PRFIN20110226_001602_000000433100_00016_47013_9985.N1	26-FEB-2011 00:16:02	Bright	43.000	5	3Alp Lyr	0.033000	11000.	86	47013	No
5	GOM_NL__2PRFIN20110226_002326_000000383100_00016_47013_9986.N1	26-FEB-2011 00:23:26	Bright	37.500	168	17Zet Aql	2.9860	11000.	75	47013	No
6	GOM_NL__2PRFIN20110226_002625_000000633100_00016_47013_9987.N1	26-FEB-2011 00:26:25	Tw_i_and_stray	62.500	59	55Alp Oph	2.0800	8900.0	125	47013	No
7	GOM_NL__2PRFIN20110226_002853_000000643100_00016_47013_9988.N1	26-FEB-2011 00:28:53	Tw_i_and_stray	64.000	126	60Bet Oph	2.7700	4250.0	128	47013	No
8	GOM_NL__2PRFIN20110226_003532_000000463100_00016_47013_9989.N1	26-FEB-2011 00:35:32	Dark	45.500	137	22Lam Sgr	2.8240	4400.0	91	47013	No
9	GOM_NL__2PRFIN20110226_004036_000000493100_00016_47013_9990.N1	26-FEB-2011 00:40:36	Dark	49.000	25	35Lam Sco	1.6200	28000.	98	47013	No
10	GOM_NL__2PRFIN20110226_004821_000000503100_00017_47014_0134.N1	26-FEB-2011 00:48:21	Dark	50.000	131	Gam Lup	2.8000	26000.	100	47014	No
11	GOM_NL__2PRFIN20110226_005220_000000453100_00017_47014_0135.N1	26-FEB-2011 00:52:20	Dark	45.000	10	Bet Cen	0.61000	28000.	90	47014	No
12	GOM_NL__2PRFIN20110226_005402_000000463100_00017_47014_0136.N1	26-FEB-2011 00:54:02	Dark	45.500	77	Eps Cen	2.3030	28000.	91	47014	No
13	GOM_NL__2PRFIN20110226_005558_000000523100_00017_47014_0137.N1	26-FEB-2011 00:55:58	Dark	52.000	26	Gam Cru	1.6240	2900.0	104	47014	No
14	GOM_NL__2PRFIN20110226_005804_000000443100_00017_47014_0138.N1	26-FEB-2011 00:58:04	Dark	43.500	99	Del Cen	2.5750	26000.	87	47014	No
15	GOM_NL__2PRFIN20110226_011936_000000473100_00017_47014_0139.N1	26-FEB-2011 01:19:36	Bright	46.500	22	32Alp Leo	1.3600	15200.	93	47014	No
16	GOM_NL__2PRFIN20110226_012256_000000403100_00017_47014_0140.N1	26-FEB-2011 01:22:56	Bright	40.000	166	17Eps Leo	2.9800	6000.0	80	47014	No
17	GOM_NL__2PRFIN20110226_013126_000000463100_00017_47014_0141.N1	26-FEB-2011 01:31:26	Bright	45.500	174	52Psi UMa	3.0040	4400.0	91	47014	No
18	GOM_NL__2PRFIN20110226_013403_000000523100_00017_47014_0142.N1	26-FEB-2011 01:34:03	Bright	51.500	82	48Bet UMa	2.3650	10600.	103	47014	No
19	GOM_NL__2PRFIN20110226_013530_000000483100_00017_47014_0143.N1	26-FEB-2011 01:35:30	Bright	47.500	87	64Gam UMa	2.4330	11000.	95	47014	No
20	GOM_NL__2PRFIN20110226_013850_000000353100_00017_47014_0144.N1	26-FEB-2011 01:38:50	Tw_i_and_stray	35.000	32	77Eps UMa	1.7630	11000.	70	47014	No
21	GOM_NL__2PRFIN20110226_014225_000000393100_00017_47014_0145.N1	26-FEB-2011 01:42:25	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	47014	No
22	GOM_NL__2PRFIN20110226_014709_000000463100_00017_47014_0146.N1	26-FEB-2011 01:47:09	Bright	45.500	119	14Eta Dra	2.7270	4700.0	91	47014	No
23	GOM_NL__2PRFIN20110226_015124_000000453100_00017_47014_0147.N1	26-FEB-2011 01:51:24	Bright	44.500	130	23Bet Dra	2.7990	5800.0	89	47014	No
24	GOM_NL__2PRFIN20110226_015616_000000403100_00017_47014_0148.N1	26-FEB-2011 01:56:16	Bright	40.000	5	3Alp Lyr	0.033000	11000.	80	47014	No
25	GOM_NL__2PRFIN20110226_020340_000000573100_00017_47014_0149.N1	26-FEB-2011 02:03:40	Bright	57.000	168	17Zet Aql	2.9860	11000.	114	47014	No
26	GOM_NL__2PRFIN20110226_020639_000000663100_00017_47014_0150.N1	26-FEB-2011 02:06:39	Tw_i_and_stray	66.000	59	55Alp Oph	2.0800	8900.0	132	47014	No
27	GOM_NL__2PRFIN20110226_020908_000000603100_00017_47014_0151.N1	26-FEB-2011 02:09:08	Tw_i_and_stray	60.000	126	60Bet Oph	2.7700	4250.0	120	47014	No
28	GOM_NL__2PRFIN20110226_021547_000000453100_00017_47014_0152.N1	26-FEB-2011 02:15:47	Dark	45.000	137	22Lam Sgr	2.8240	4400.0	90	47014	No
29	GOM_NL__2PRFIN20110226_021729_000000583100_00017_47014_0153.N1	26-FEB-2011 02:17:29	Dark	58.000	86	35Eta Oph	2.4300	10200.	116	47014	No
30	GOM_NL__2PRFIN20110226_022051_000000473100_00017_47014_0154.N1	26-FEB-2011 02:20:51	Dark	46.500	25	35Lam Sco	1.6200	28000.	93	47014	No
31	GOM_NL__2PRFIN20110226_022836_000000533100_00018_47015_0196.N1	26-FEB-2011 02:28:36	Dark	52.500	131	Gam Lup	2.8000	26000.	105	47015	No
32	GOM_NL__2PRFIN20110226_023234_000000523100_00018_47015_0197.N1	26-FEB-2011 02:32:34	Dark	52.000	10	Bet Cen	0.61000	28000.	104	47015	No
33	GOM_NL__2PRFIN20110226_023417_000000453100_00018_47015_0198.N1	26-FEB-2011 02:34:17	Dark	45.000	77	Eps Cen	2.3030	28000.	90	47015	No
34	GOM_NL__2PRFIN20110226_023613_000000583100_00018_47015_0199.N1	26-FEB-2011 02:36:13	Dark	58.000	26	Gam Cru	1.6240	2900.0	116	47015	No
35	GOM_NL__2PRFIN20110226_023819_000000423100_00018_47015_0200.N1	26-FEB-2011 02:38:19	Dark	41.500	99	Del Cen	2.5750	26000.	83	47015	No
36	GOM_NL__2PRFIN20110226_025950_000000423100_00018_47015_0201.N1	26-FEB-2011 02:59:50	Bright	42.000	22	32Alp Leo	1.3600	15200.	84	47015	No
37	GOM_NL__2PRFIN20110226_030310_000000473100_00018_47015_0202.N1	26-FEB-2011 03:03:10	Bright	47.000	166	17Eps Leo	2.9800	6000.0	94	47015	No
38	GOM_NL__2PRFIN20110226_031139_000000473100_00018_47015_0203.N1	26-FEB-2011 03:11:39	Bright	47.000	174	52Psi UMa	3.0040	4400.0	94	47015	No
39	GOM_NL__2PRFIN20110226_031416_000000423100_00018_47015_0204.N1	26-FEB-2011 03:14:16	Bright	41.500	82	48Bet UMa	2.3650	10600.	83	47015	No
40	GOM_NL__2PRFIN20110226_031543_000000483100_00018_47015_0205.N1	26-FEB-2011 03:15:43	Bright	48.000	87	64Gam UMa	2.4330	11000.	96	47015	No
41	GOM_NL__2PRFIN20110226_031903_000000353100_00018_47015_0206.N1	26-FEB-2011 03:19:03	Tw_i_and_stray	35.000	32	77Eps UMa	1.7630	11000.	70	47015	No
42	GOM_NL__2PRFIN20110226_032238_000000413100_00018_47015_0207.N1	26-FEB-2011 03:22:38	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	47015	No

279	GOM_NL__2PRFIN20110226_221842_000000473100_00029_47026_0714.N1	26-FEB-2011 22:18:42	Dark	46.500	137	22Lam Sgr	2.8240	4400.0	93	47026	No
280	GOM_NL__2PRFIN20110226_222033_000000563100_00029_47026_0715.N1	26-FEB-2011 22:20:33	Dark	56.000	86	35Eta Oph	2.4300	10200.	112	47026	No
281	GOM_NL__2PRFIN20110226_222348_000000453100_00029_47026_0716.N1	26-FEB-2011 22:23:48	Dark	44.500	25	35Lam Sco	1.6200	28000.	89	47026	No
282	GOM_NL__2PRFIN20110226_223138_000000533100_00030_47027_0700.N1	26-FEB-2011 22:31:38	Dark	53.000	131	Gam Lup	2.8000	26000.	106	47027	No
283	GOM_NL__2PRFIN20110226_223530_000000423100_00030_47027_0701.N1	26-FEB-2011 22:35:30	Dark	41.500	10	Bet Cen	0.61000	28000.	83	47027	No
284	GOM_NL__2PRFIN20110226_223713_000000473100_00030_47027_0702.N1	26-FEB-2011 22:37:13	Dark	47.000	77	Eps Cen	2.3030	28000.	94	47027	No
285	GOM_NL__2PRFIN20110226_223853_000000323100_00030_47027_0703.N1	26-FEB-2011 22:38:53	Dark	32.000	54	5The Cen	2.0550	4500.0	64	47027	No
286	GOM_NL__2PRFIN20110226_224028_000000493100_00030_47027_0704.N1	26-FEB-2011 22:40:28	Dark	48.500	64	Gam Cen	2.2000	10600.	97	47027	No
287	GOM_NL__2PRFIN20110226_230236_000000453100_00030_47027_0705.N1	26-FEB-2011 23:02:36	Bright	45.000	22	32Alp Leo	1.3600	15200.	90	47027	No
288	GOM_NL__2PRFIN20110226_230516_000000463100_00030_47027_0706.N1	26-FEB-2011 23:05:16	Bright	46.000	51	41Gam1Leo	2.0100	4500.0	92	47027	No
289	GOM_NL__2PRFIN20110226_231419_000000463100_00030_47027_0707.N1	26-FEB-2011 23:14:19	Bright	45.500	174	52Psi UMa	3.0040	4400.0	91	47027	No
290	GOM_NL__2PRFIN20110226_231659_000000413100_00030_47027_0708.N1	26-FEB-2011 23:16:59	Bright	41.000	82	48Bet UMa	2.3650	10600.	82	47027	No
291	GOM_NL__2PRFIN20110226_231822_000000473100_00030_47027_0709.N1	26-FEB-2011 23:18:22	Bright	47.000	87	64Gam UMa	2.4330	11000.	94	47027	No
292	GOM_NL__2PRFIN20110226_232141_000000493100_00030_47027_0710.N1	26-FEB-2011 23:21:41	Bright	49.000	32	77Eps UMa	1.7630	11000.	98	47027	No
293	GOM_NL__2PRFIN20110226_232523_000000373100_00030_47027_0711.N1	26-FEB-2011 23:25:23	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	47027	No
294	GOM_NL__2PRFIN20110226_233005_000000463100_00030_47027_0712.N1	26-FEB-2011 23:30:05	Bright	45.500	119	14Eta Dra	2.7270	4700.0	91	47027	No
295	GOM_NL__2PRFIN20110226_233423_000000453100_00030_47027_0713.N1	26-FEB-2011 23:34:23	Bright	44.500	130	23Bet Dra	2.7990	5800.0	89	47027	No
296	GOM_NL__2PRFIN20110226_233919_000000423100_00030_47027_0714.N1	26-FEB-2011 23:39:19	Bright	41.500	5	3Alp Lyr	0.033000	11000.	83	47027	No
297	GOM_NL__2PRFIN20110226_234646_000000393100_00030_47027_0715.N1	26-FEB-2011 23:46:46	Bright	39.000	168	17Zet Aql	2.9860	11000.	78	47027	No
298	GOM_NL__2PRFIN20110226_235221_000000603100_00030_47027_0716.N1	26-FEB-2011 23:52:21	Straylight	60.000	126	60Bet Oph	2.7700	4250.0	120	47027	No
299	GOM_NL__2PRFIN20110226_235857_000000473100_00030_47027_0717.N1	26-FEB-2011 23:58:57	Dark	46.500	137	22Lam Sgr	2.8240	4400.0	93	47027	No

3. Quality information per product

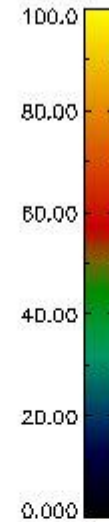
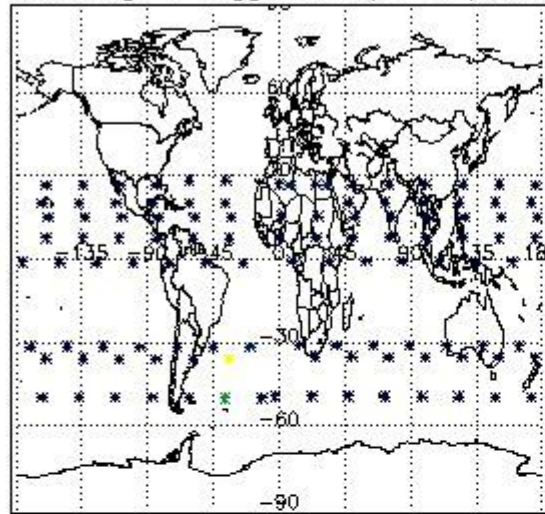
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

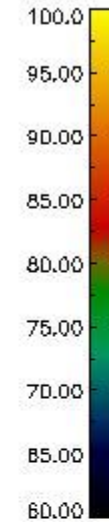
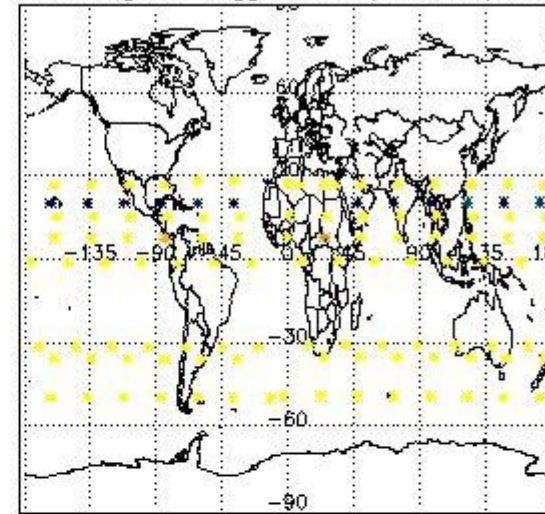


3.2 Plot quality information per product (world map)

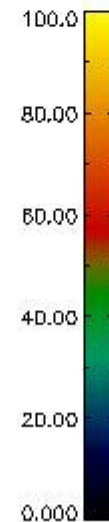
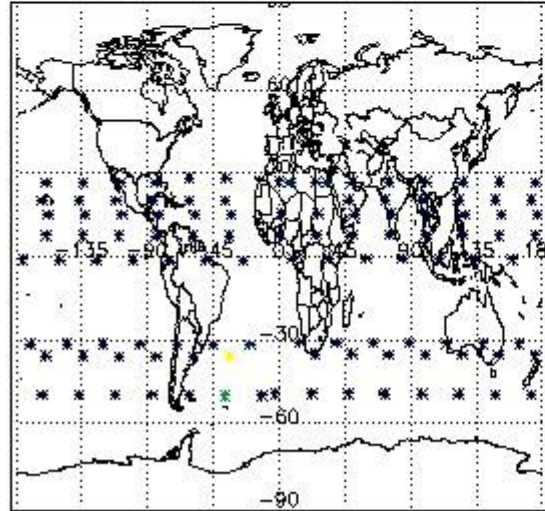
Percentage of flagged data per O3 profile



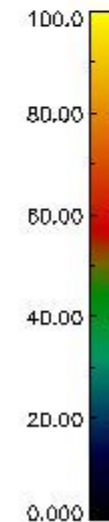
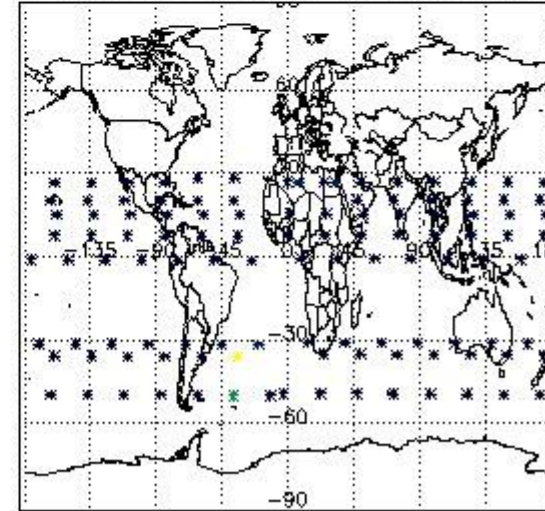
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

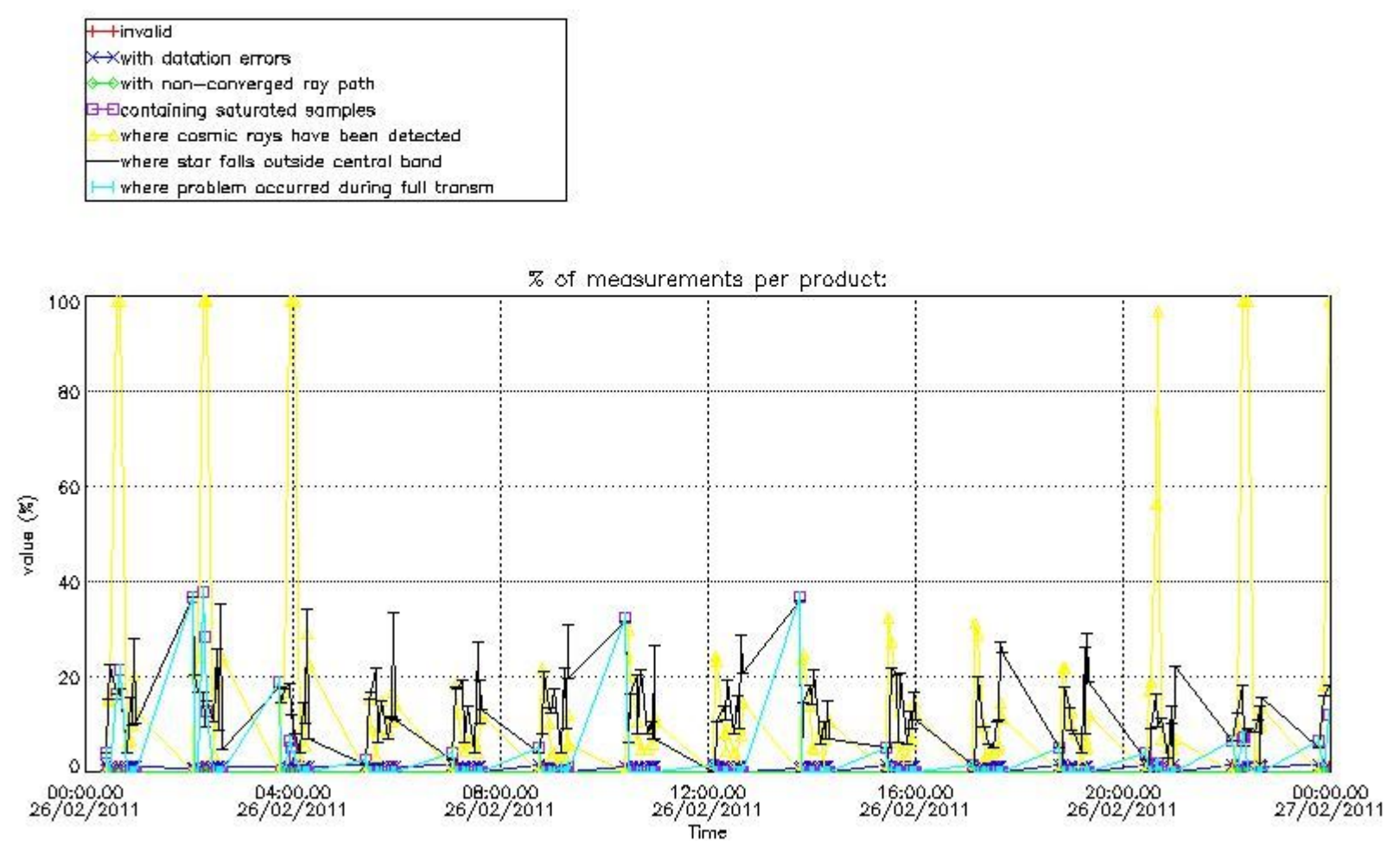


4. Level 1 quality information per product

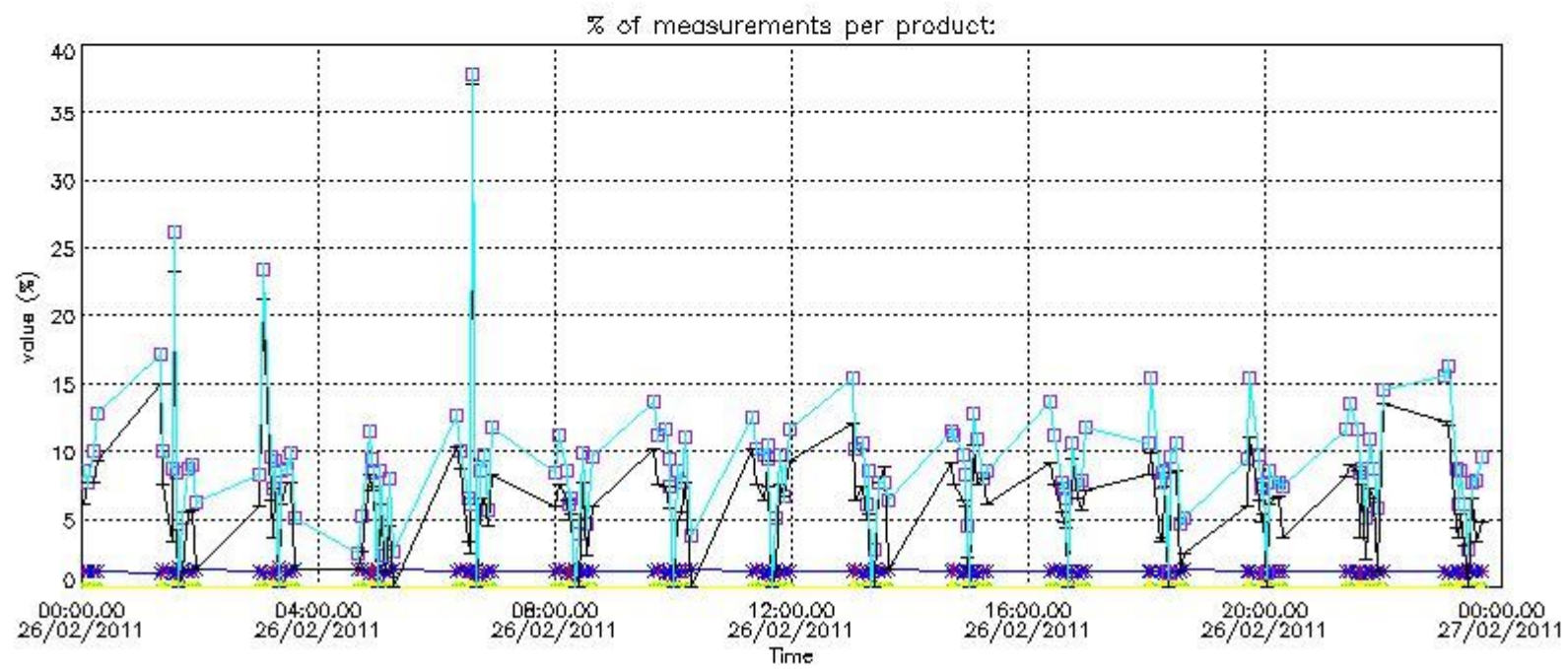
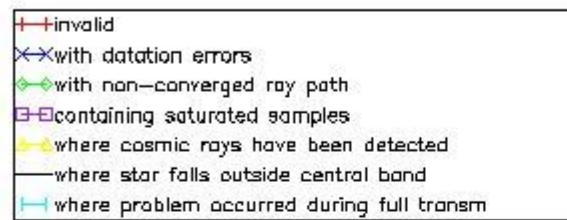
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

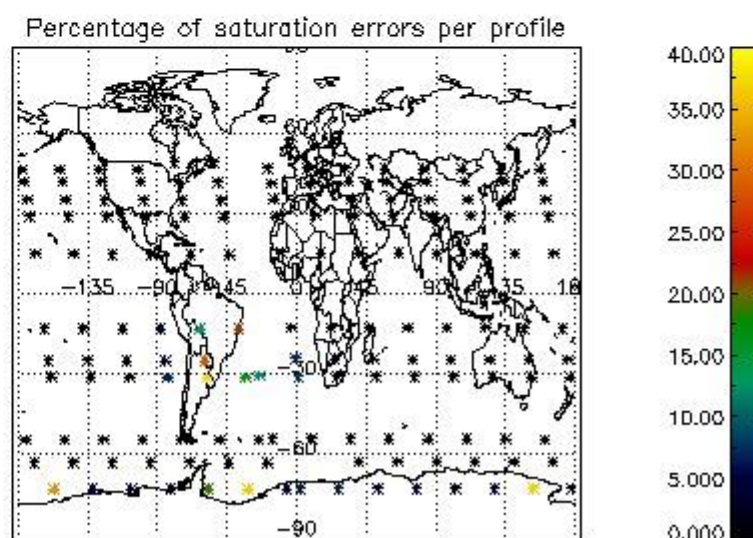
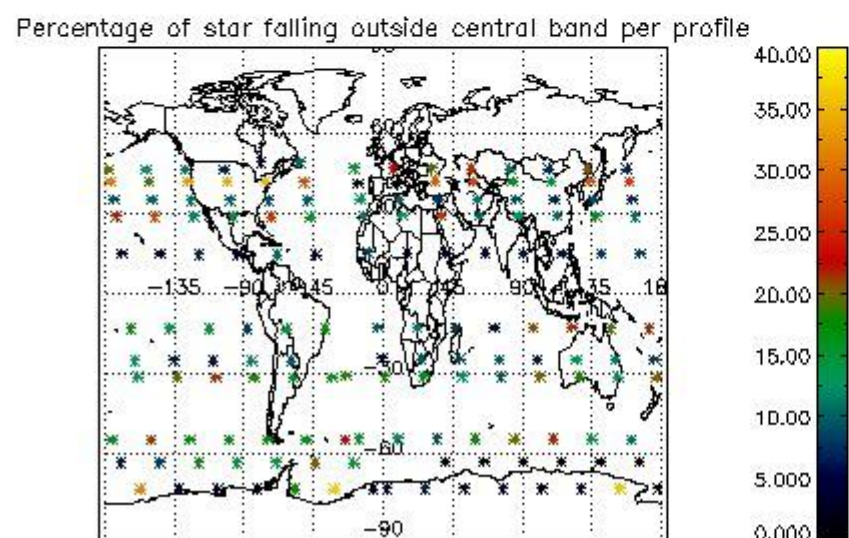
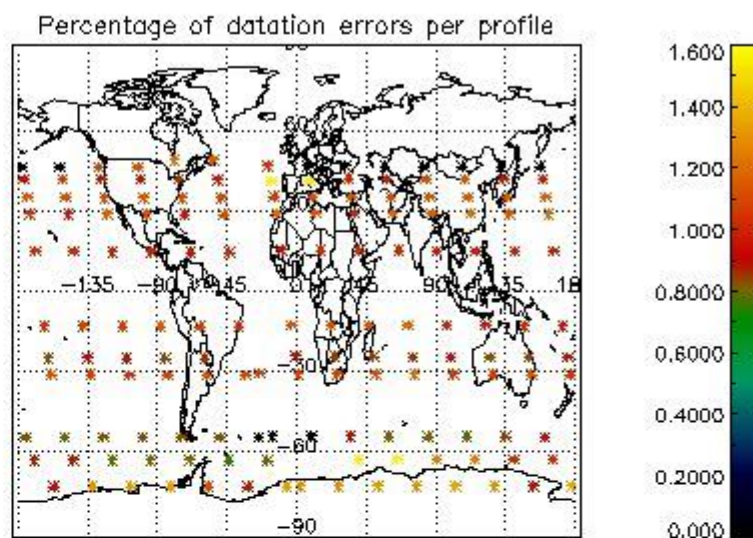
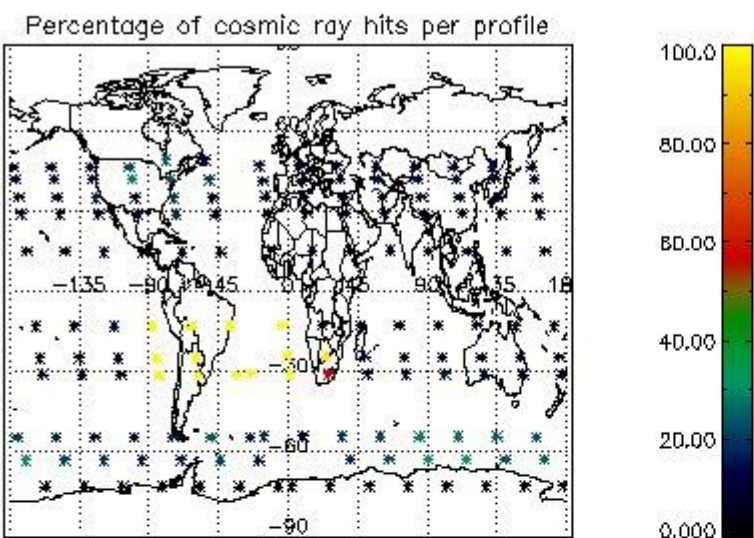


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

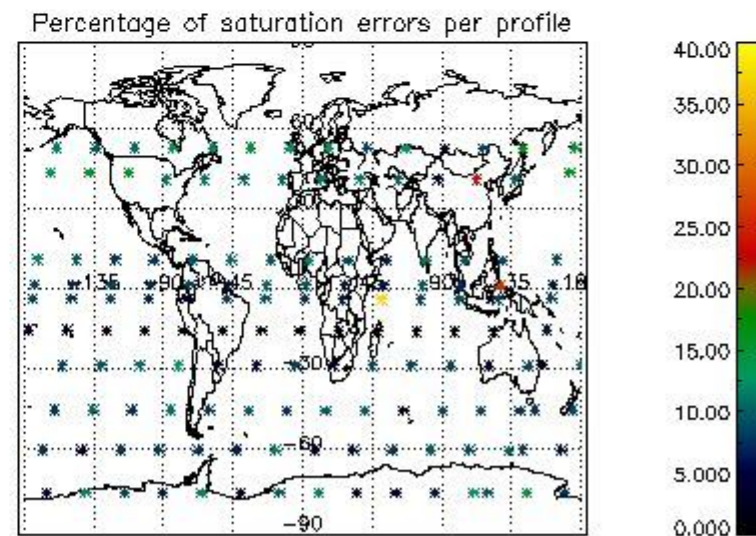
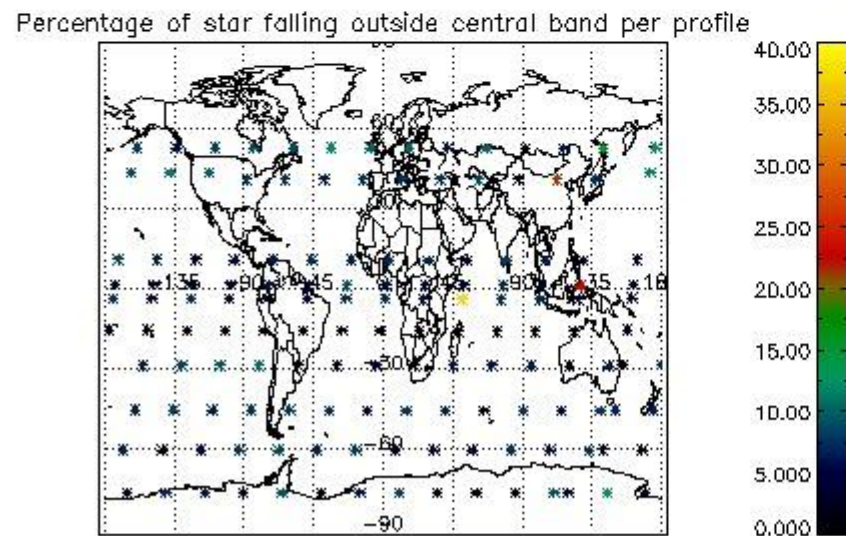
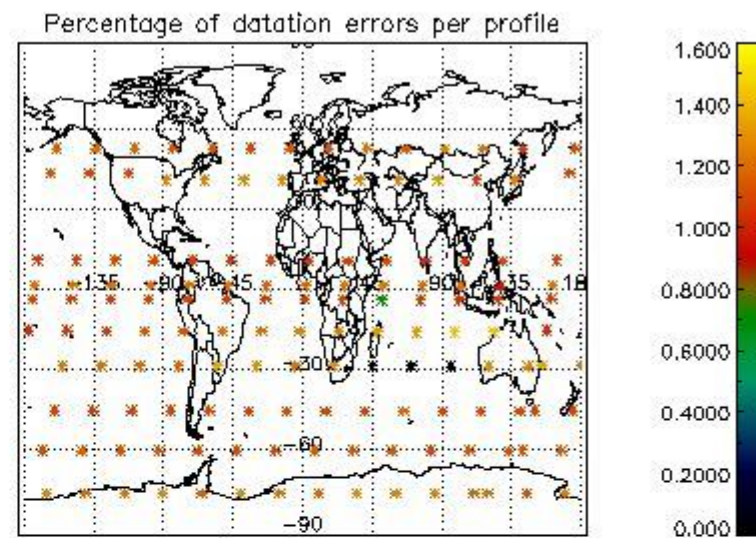
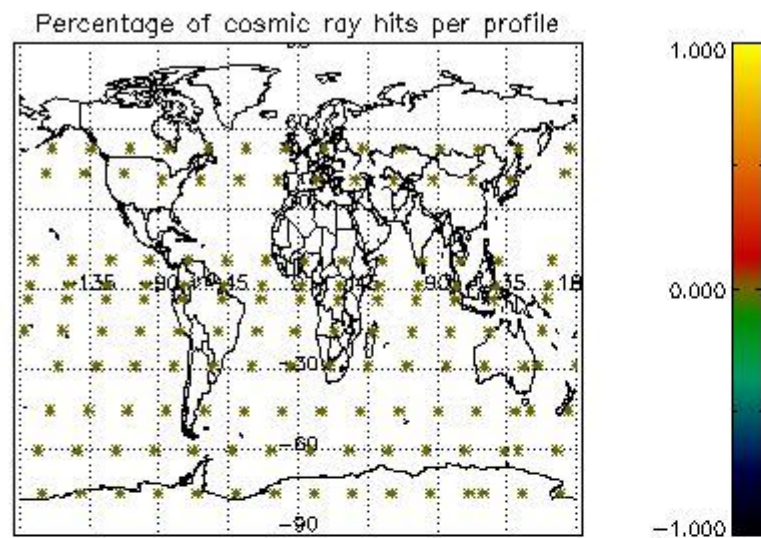


4.2 Plot quality information per product coming from level 1b processing (world map)

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

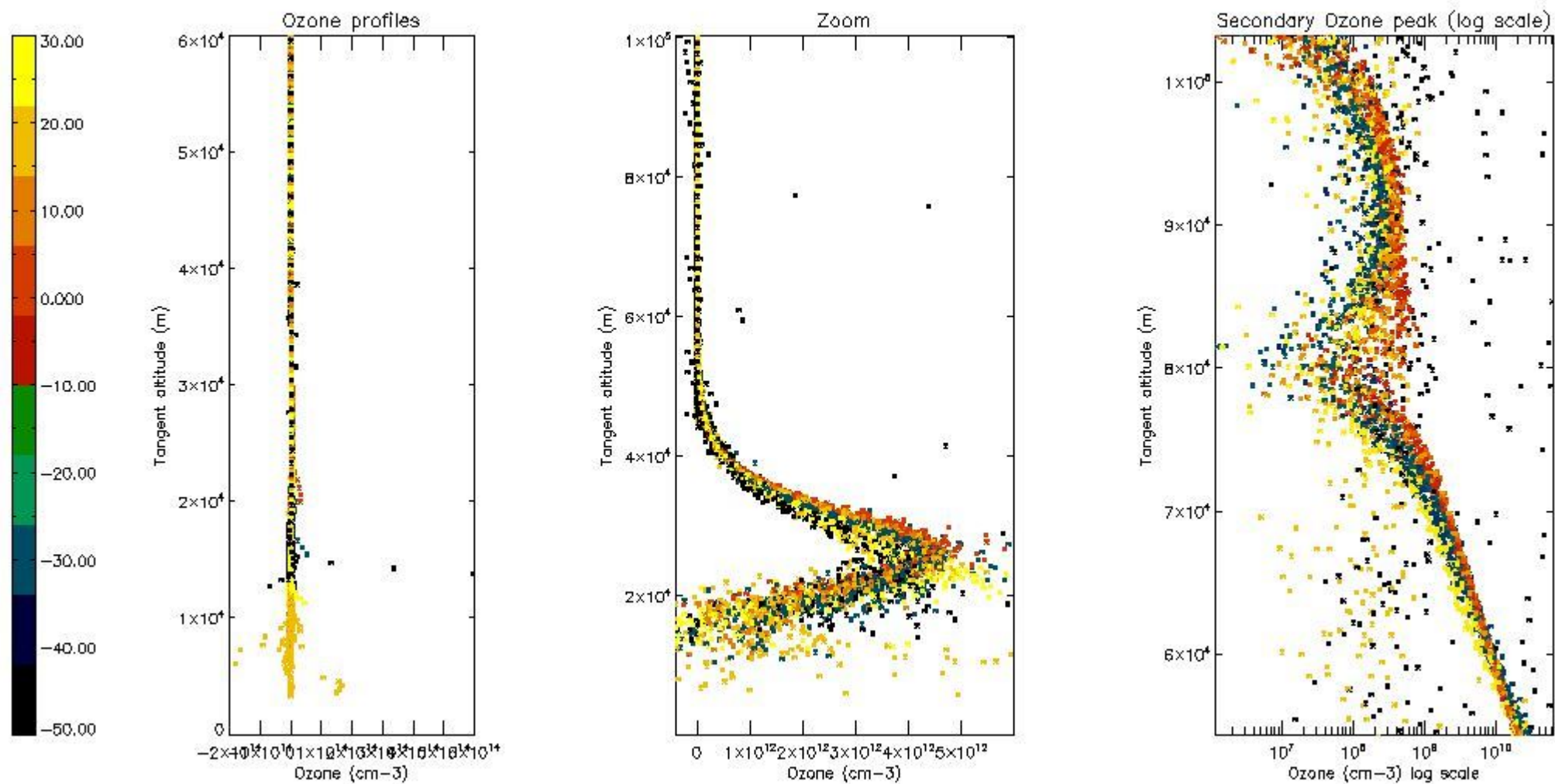
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	39
STD < 20	21

STD < 10	16
STD < 5	11

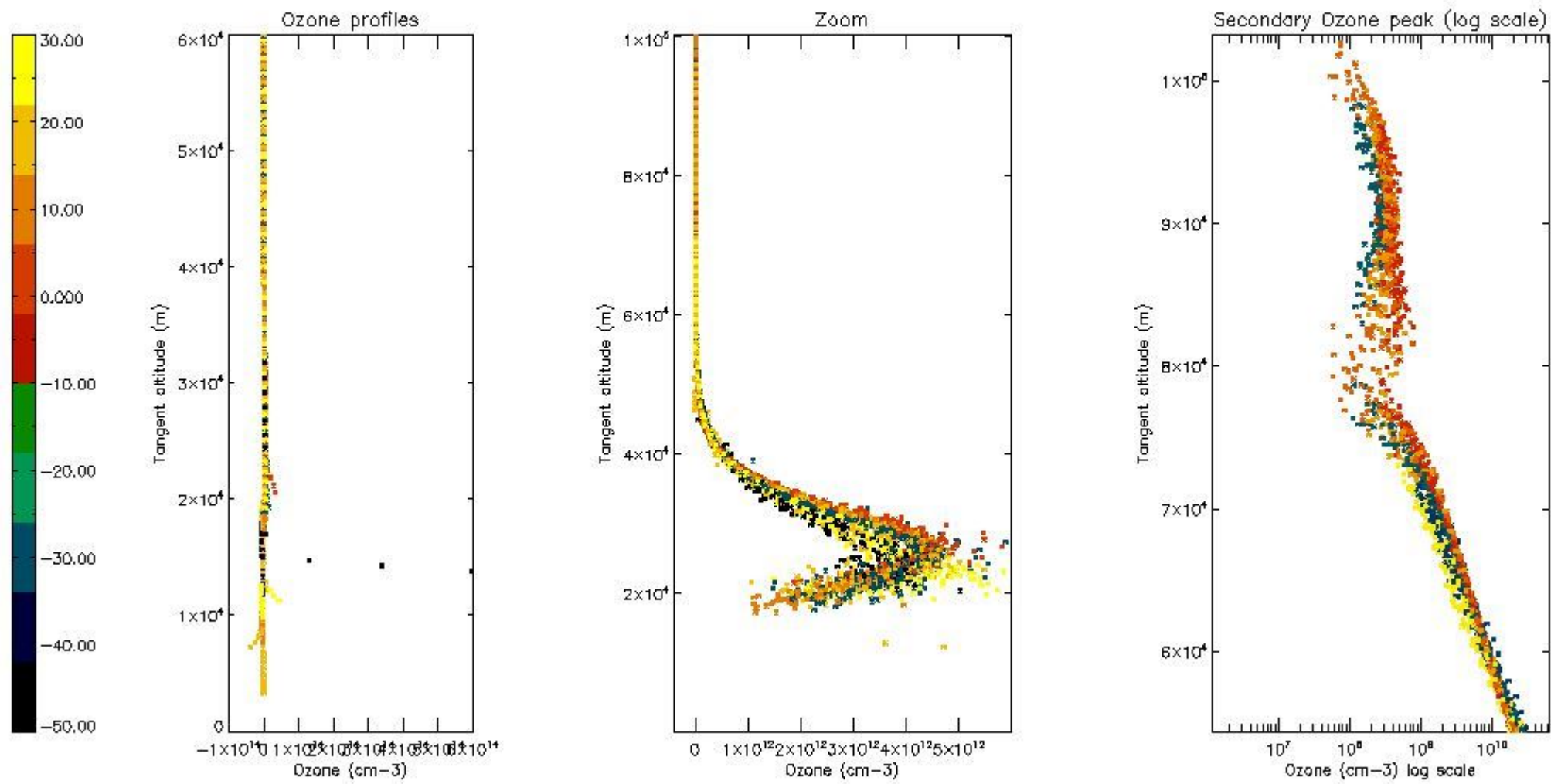
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



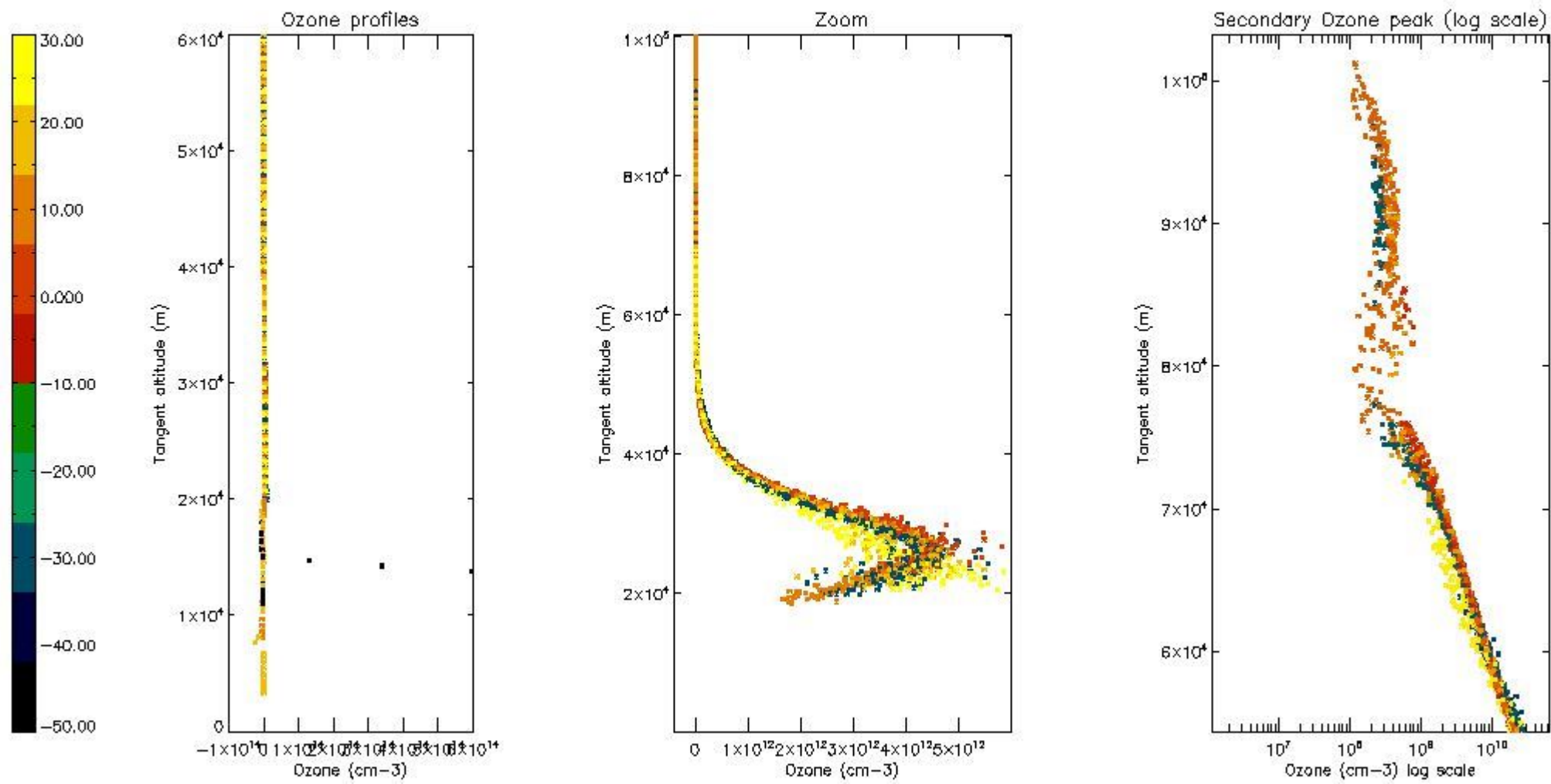
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



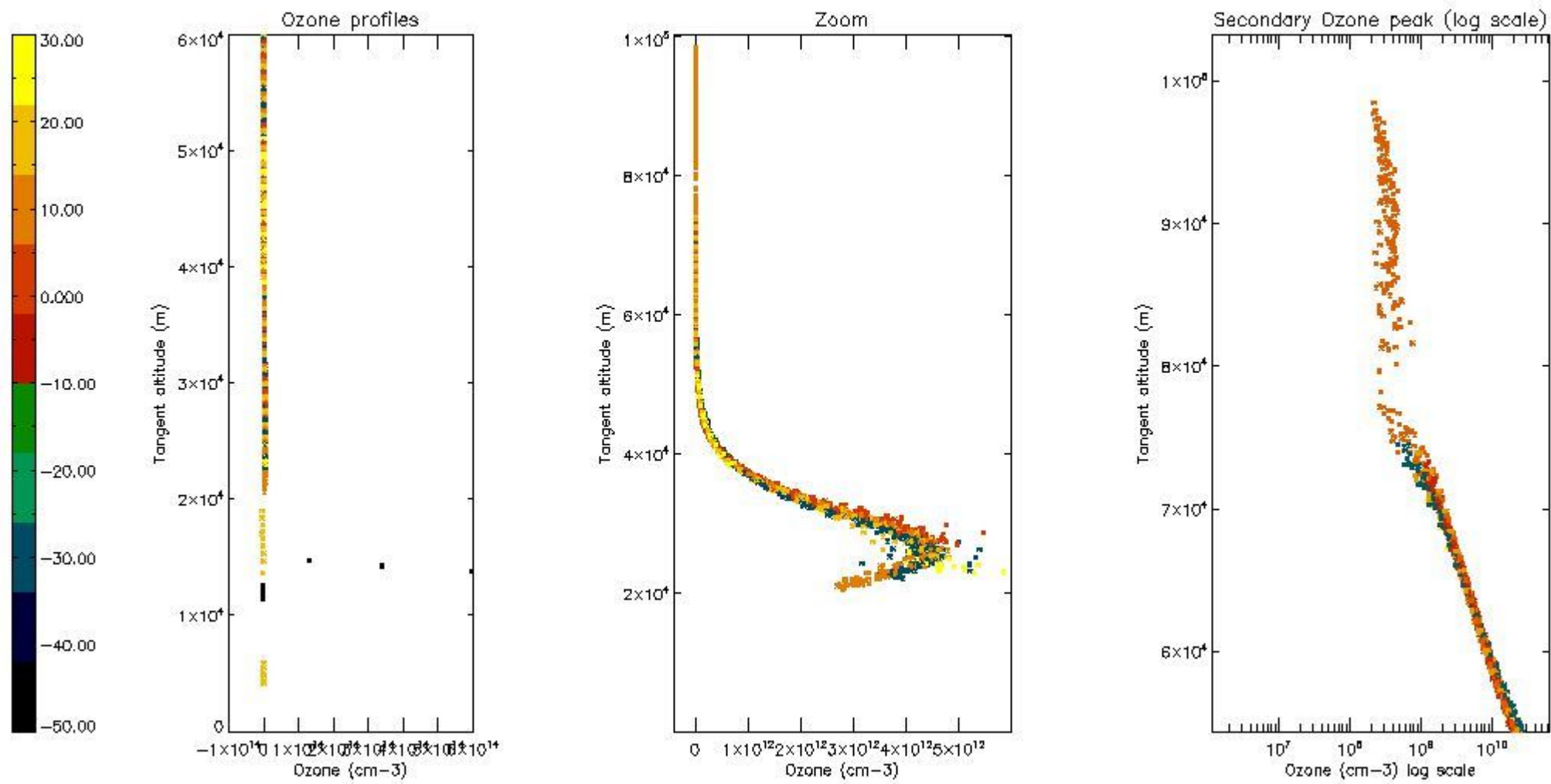
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



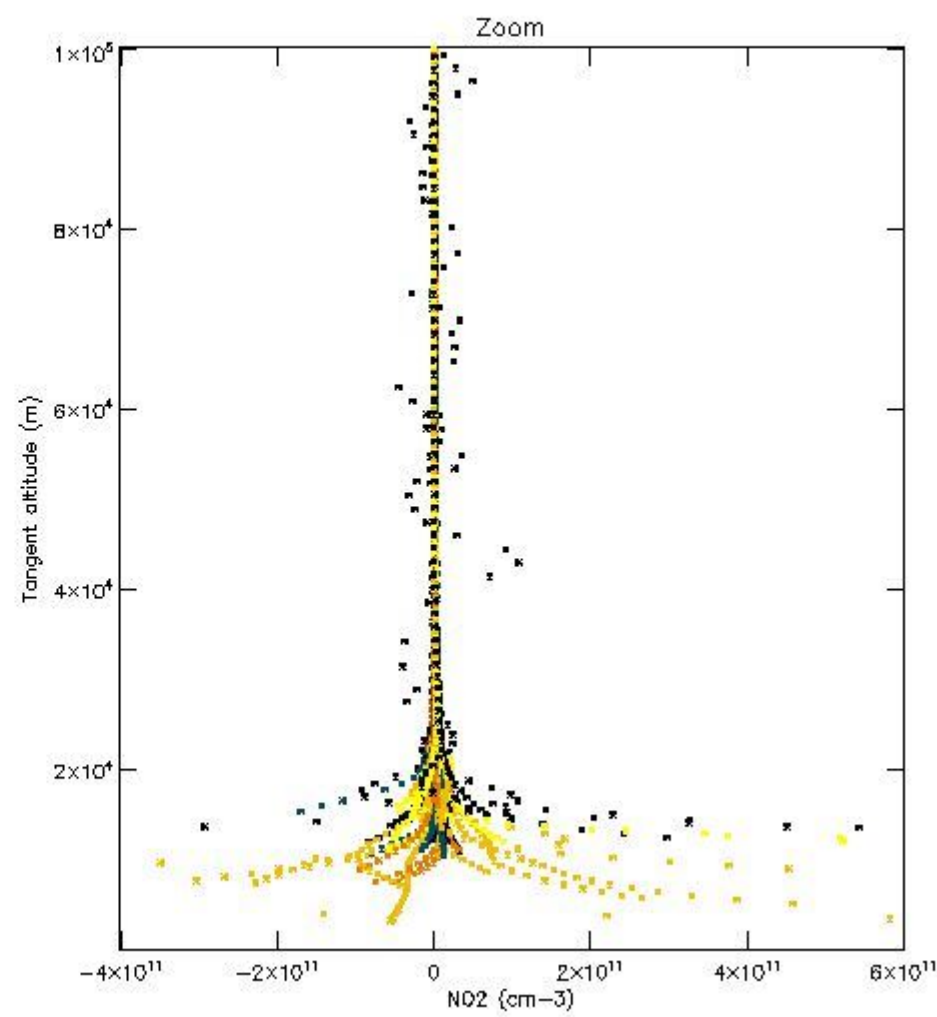
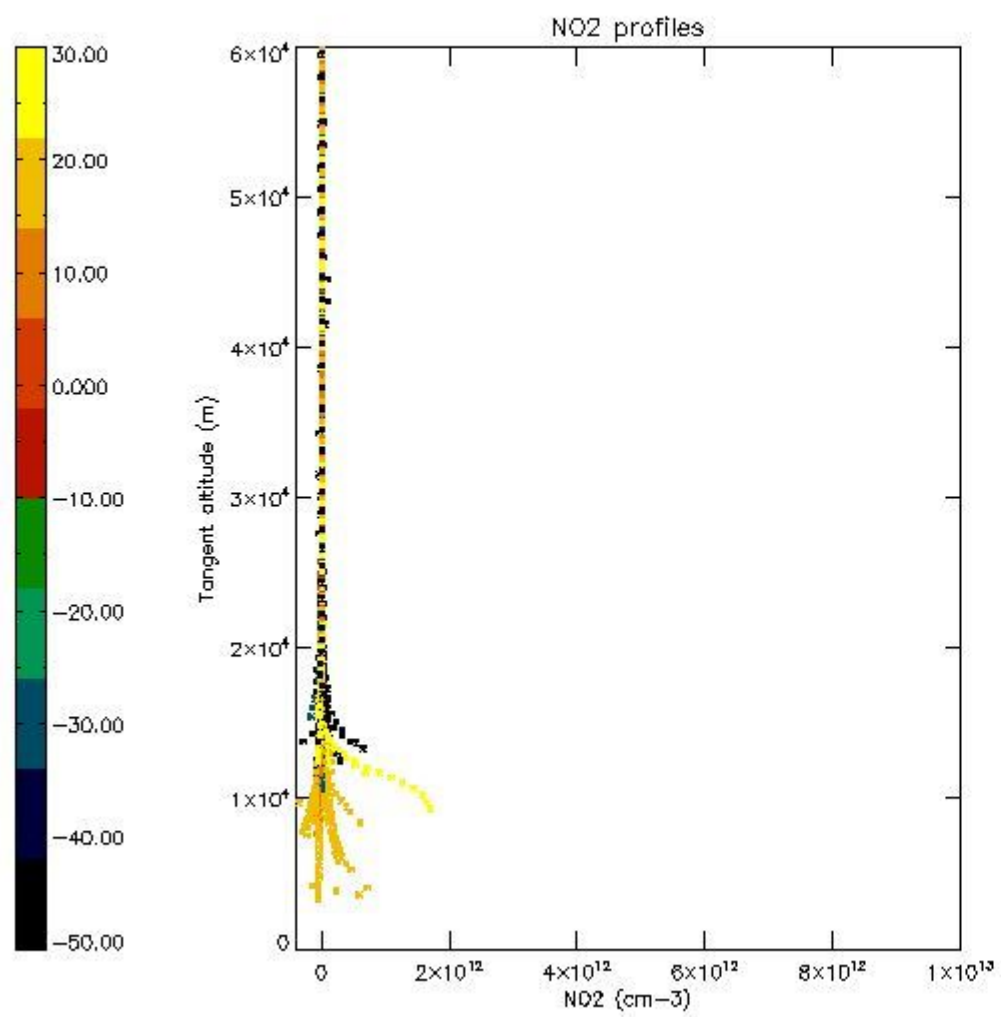
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



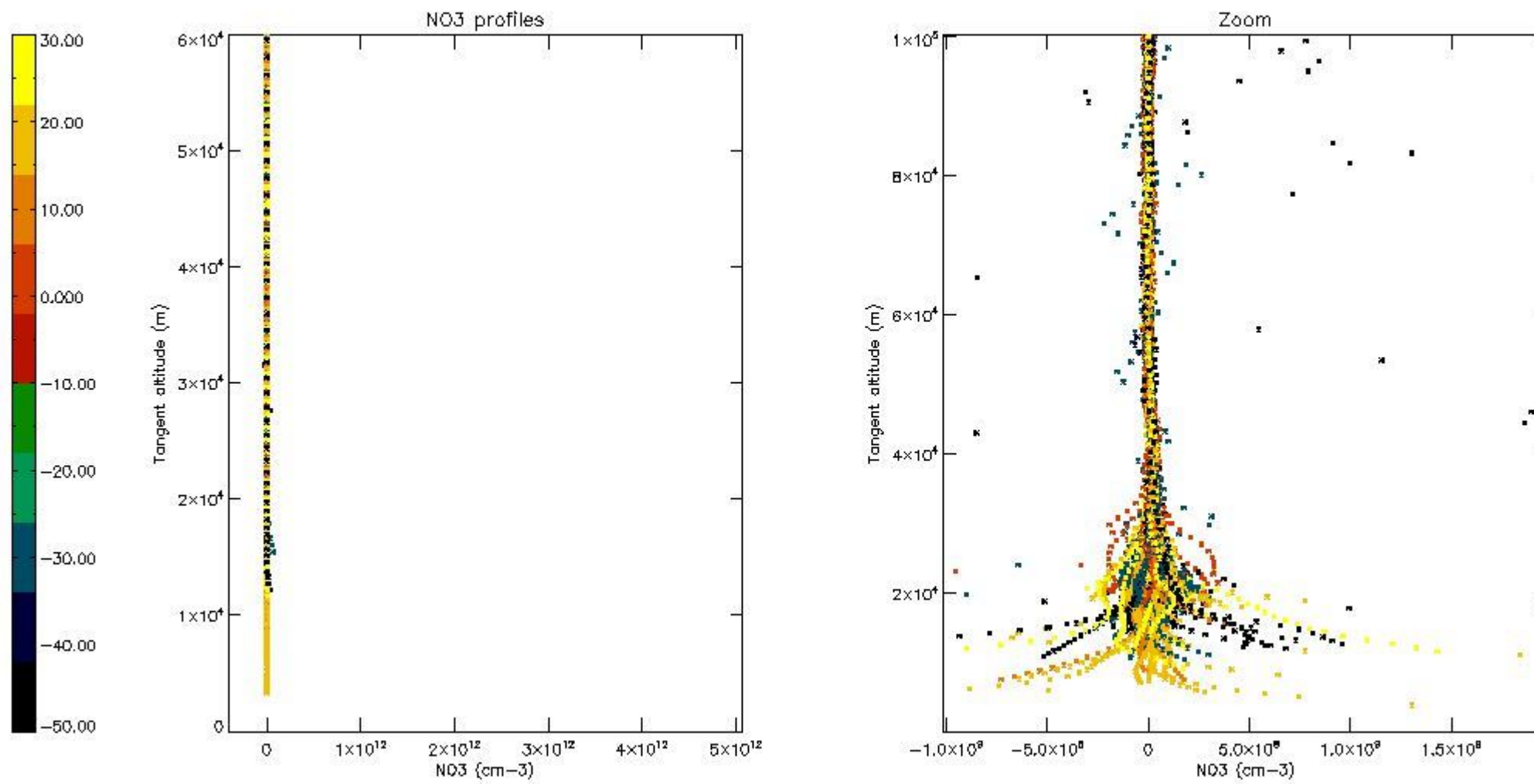
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

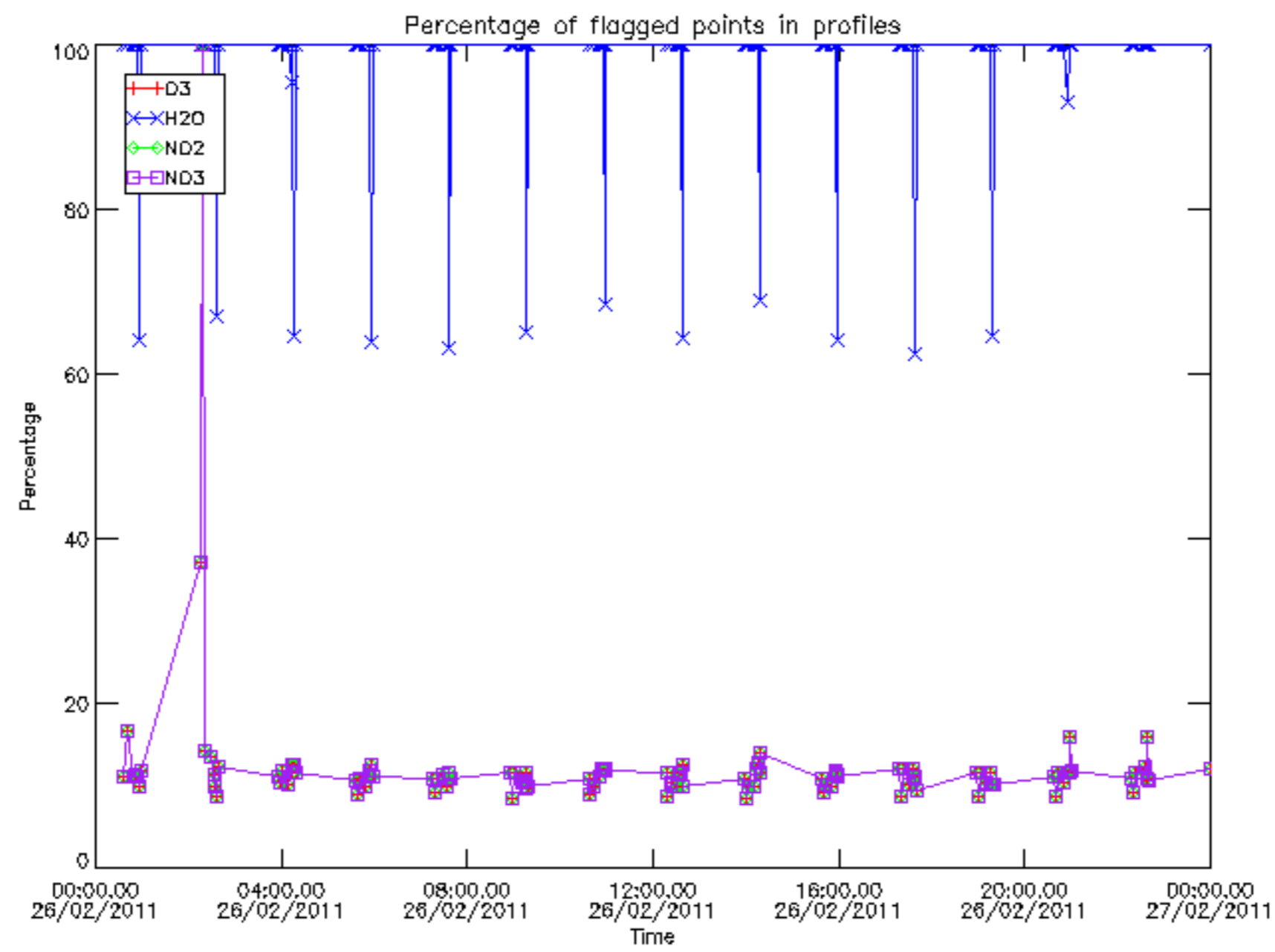
The colorbar represents the latitude.



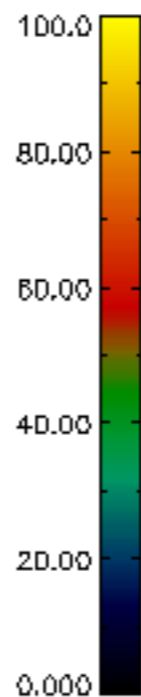
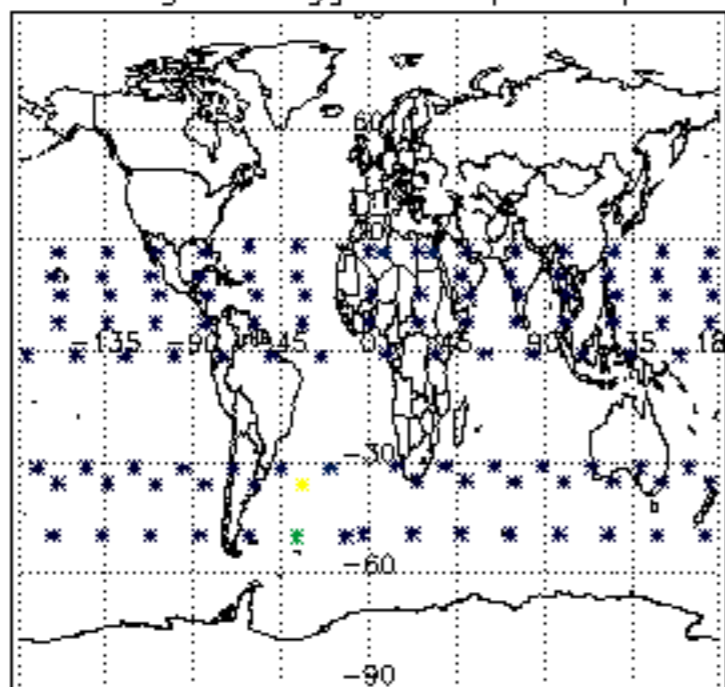
6. Auxiliary Data Files used for the production reported in section 2

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.

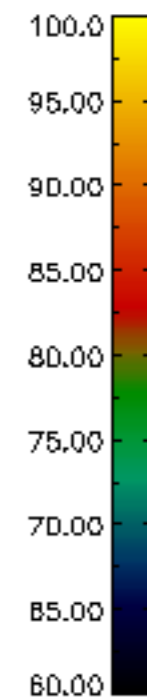
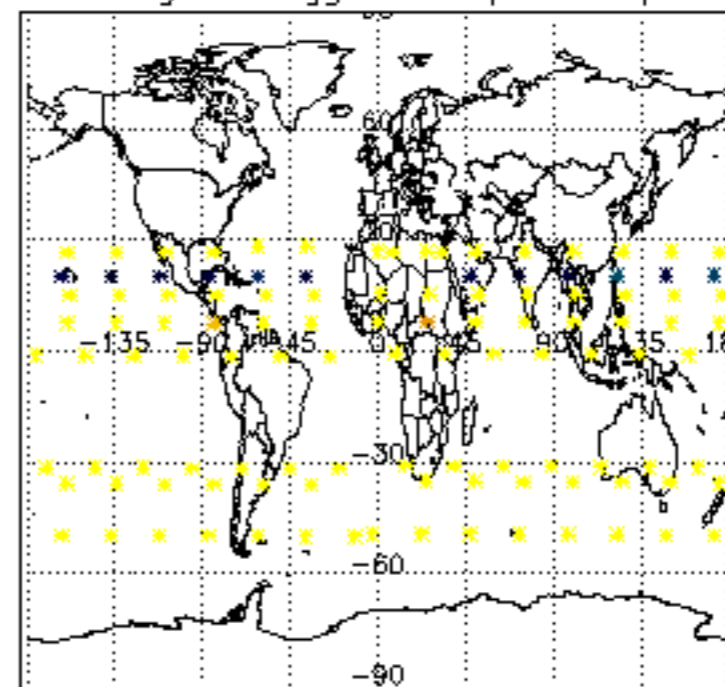
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	26-FEB-2011 00:02:11
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	26-FEB-2011 00:02:11
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	26-FEB-2011 00:02:11



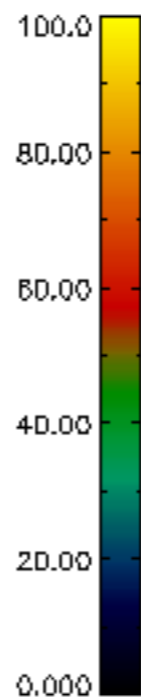
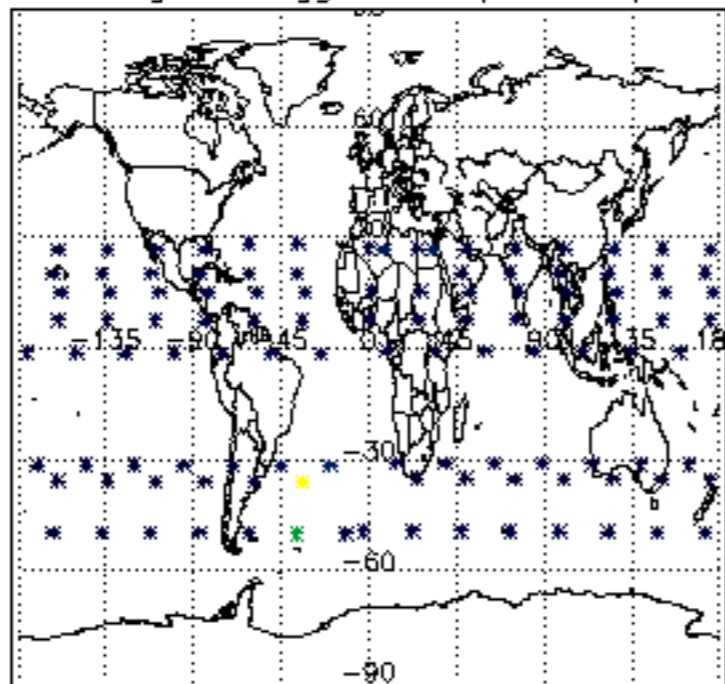
Percentage of flagged data per D3 profile



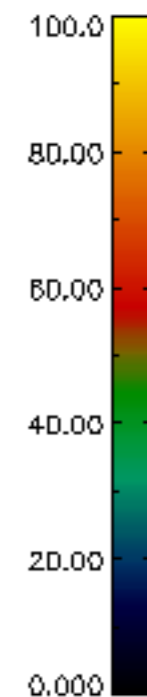
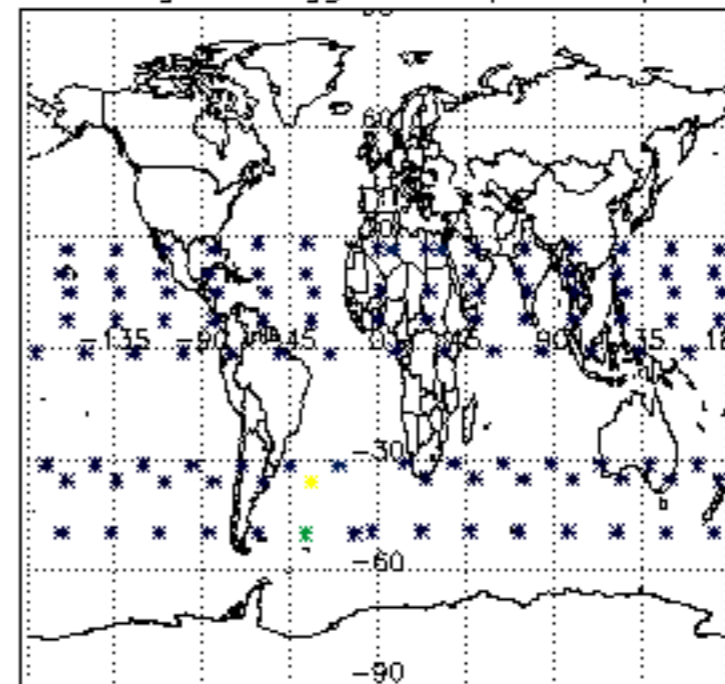
Percentage of flagged data per H2O profile

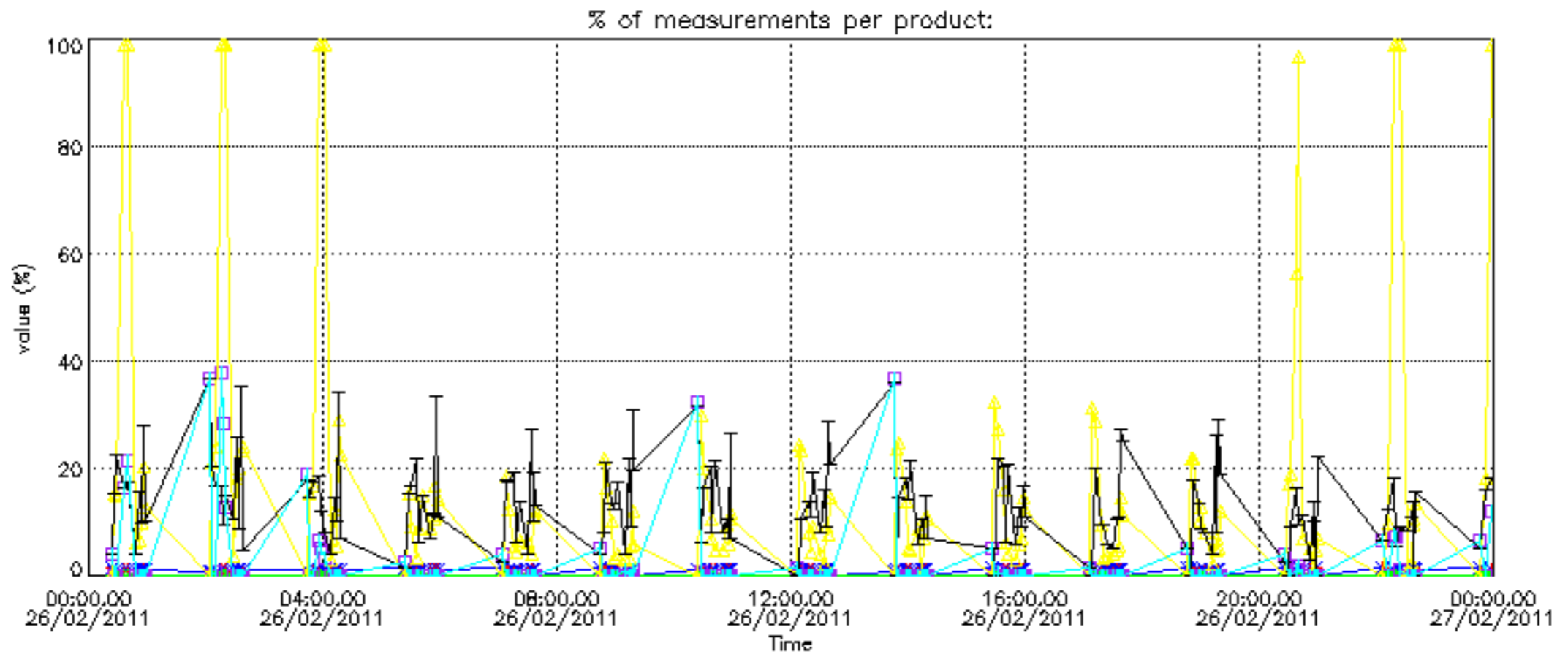


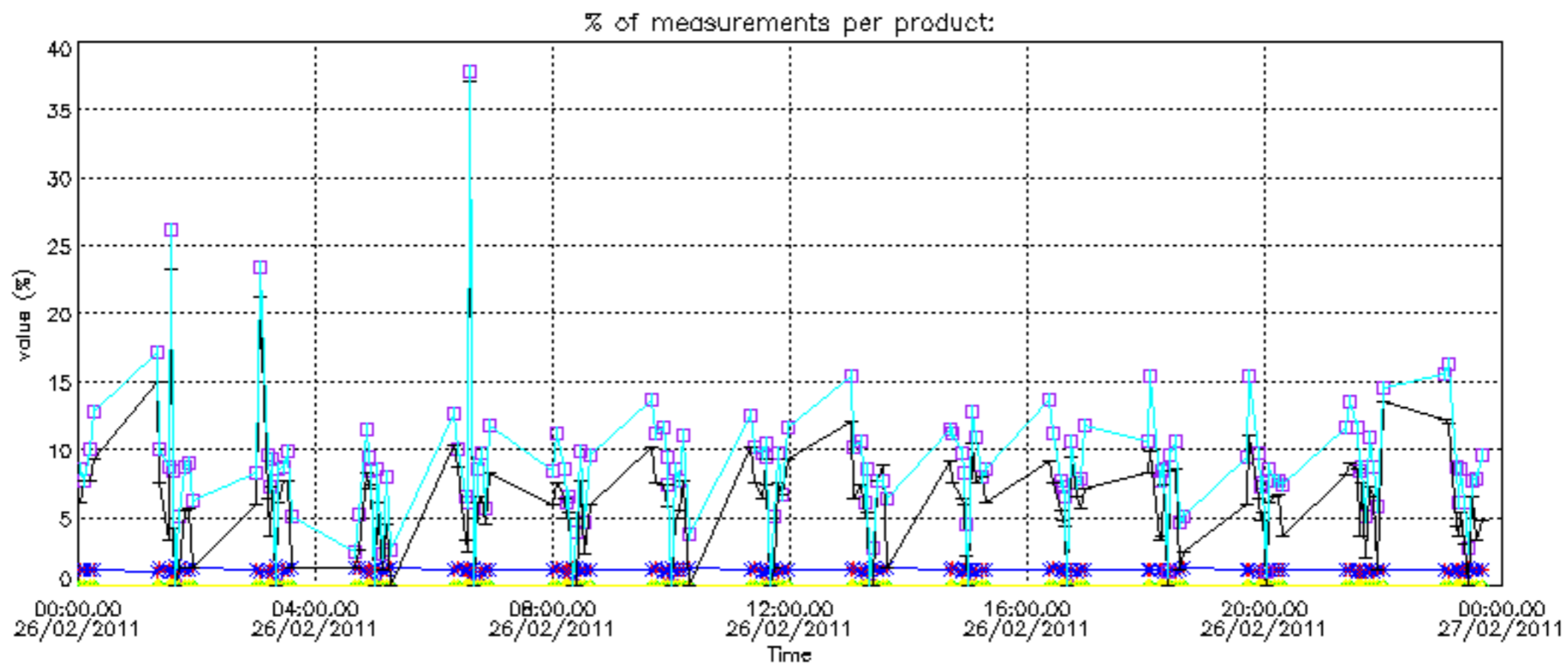
Percentage of flagged data per NO2 profile



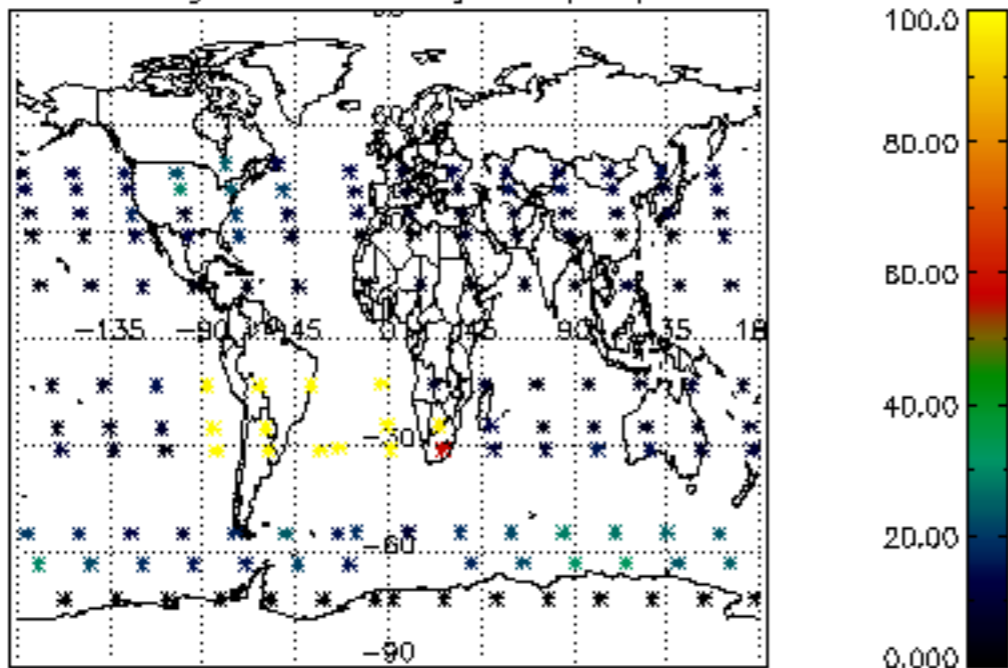
Percentage of flagged data per NO3 profile



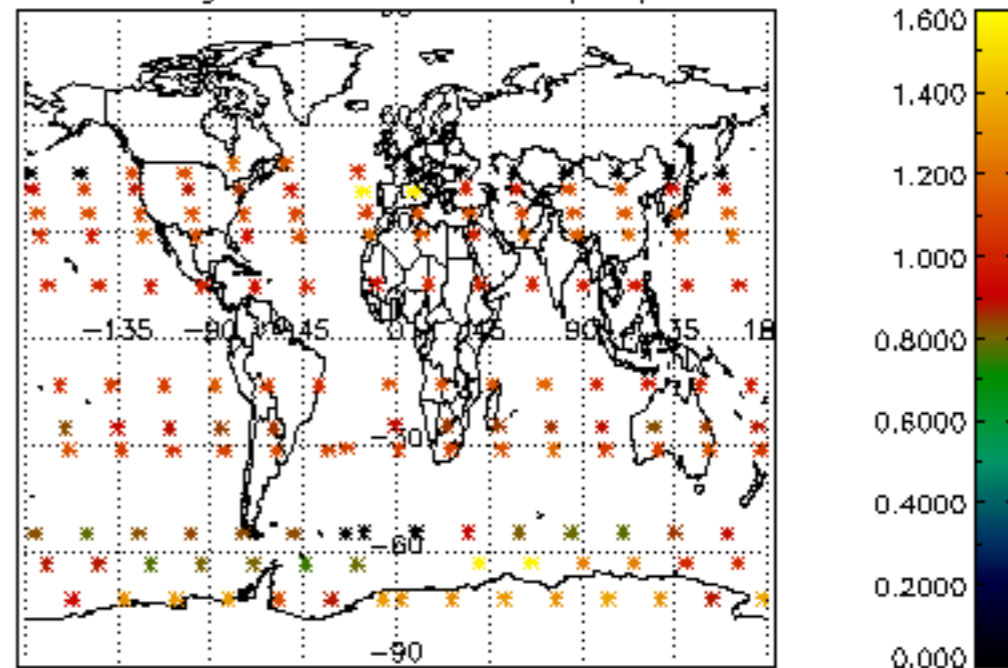




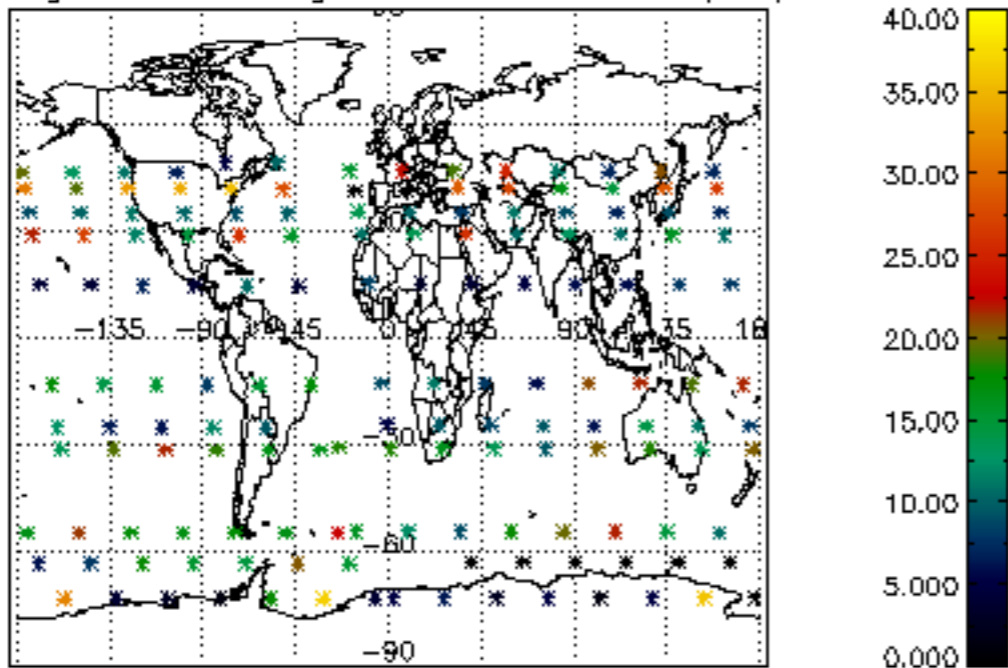
Percentage of cosmic ray hits per profile



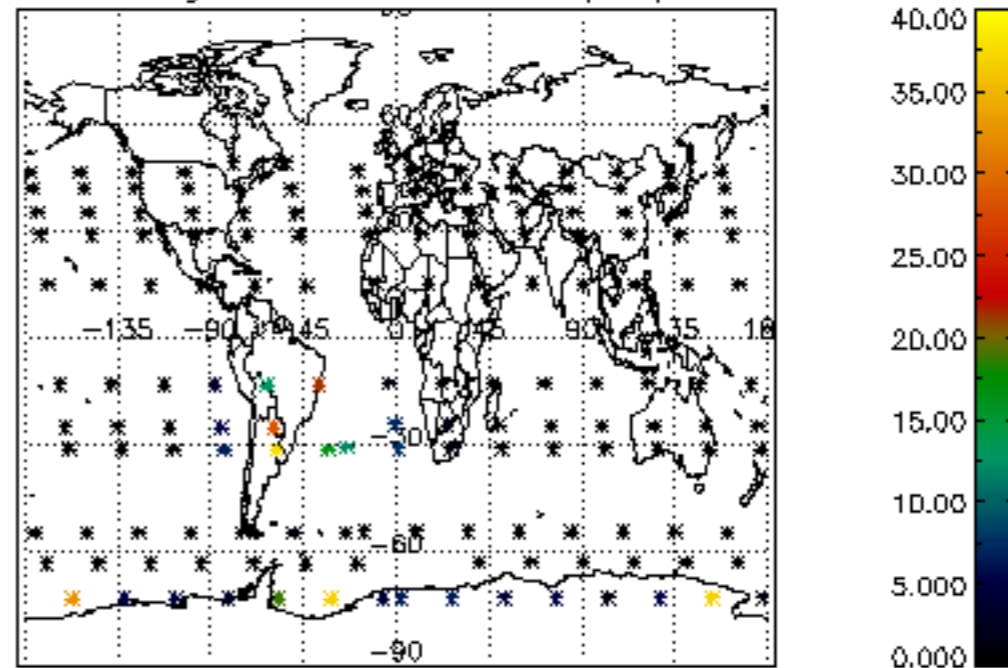
Percentage of datation errors per profile



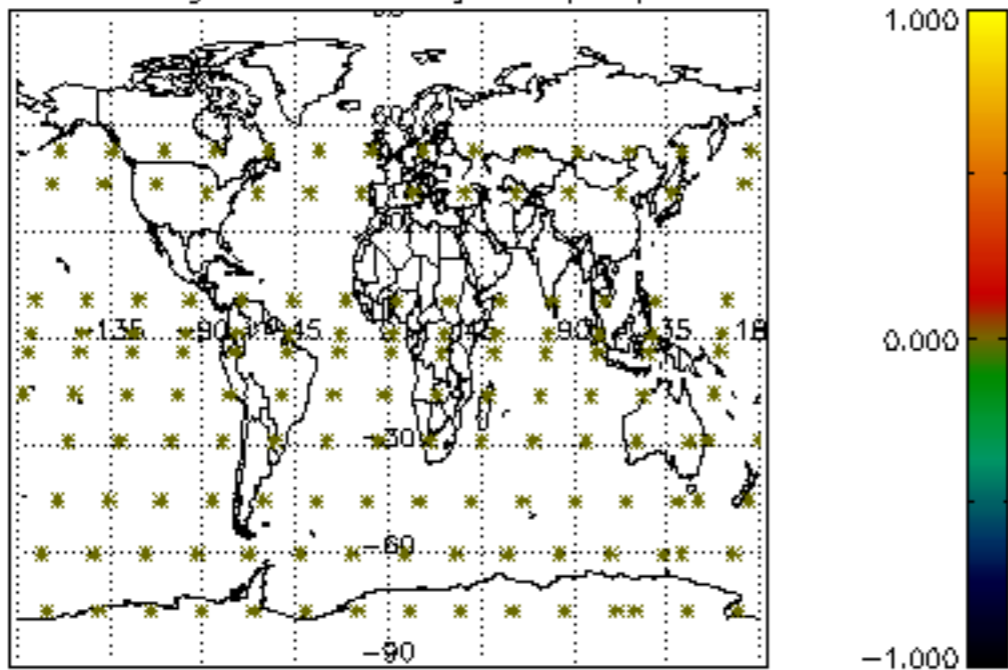
Percentage of star falling outside central band per profile



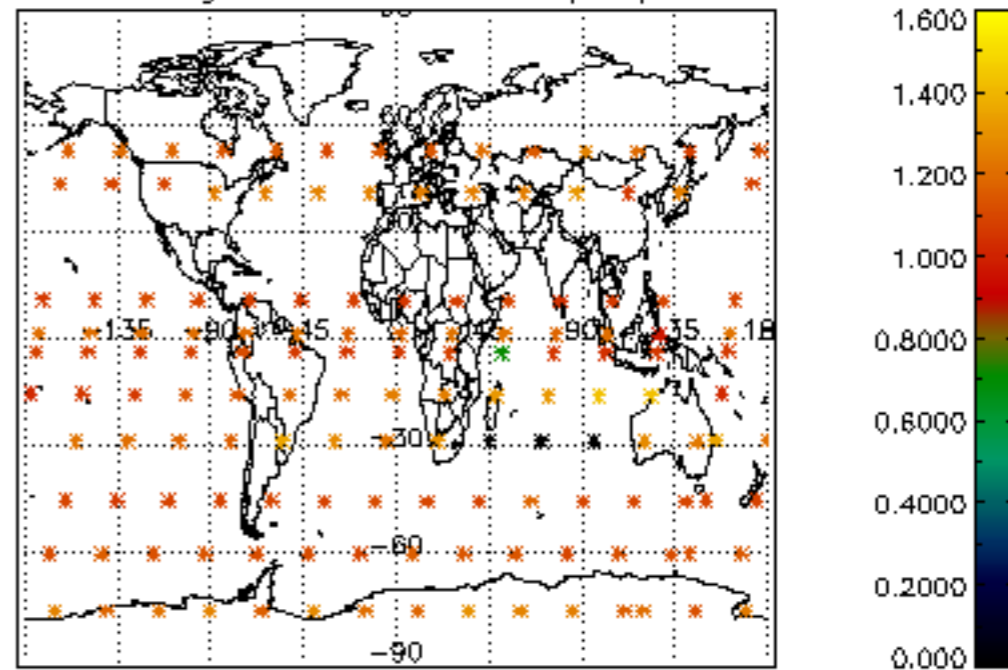
Percentage of saturation errors per profile



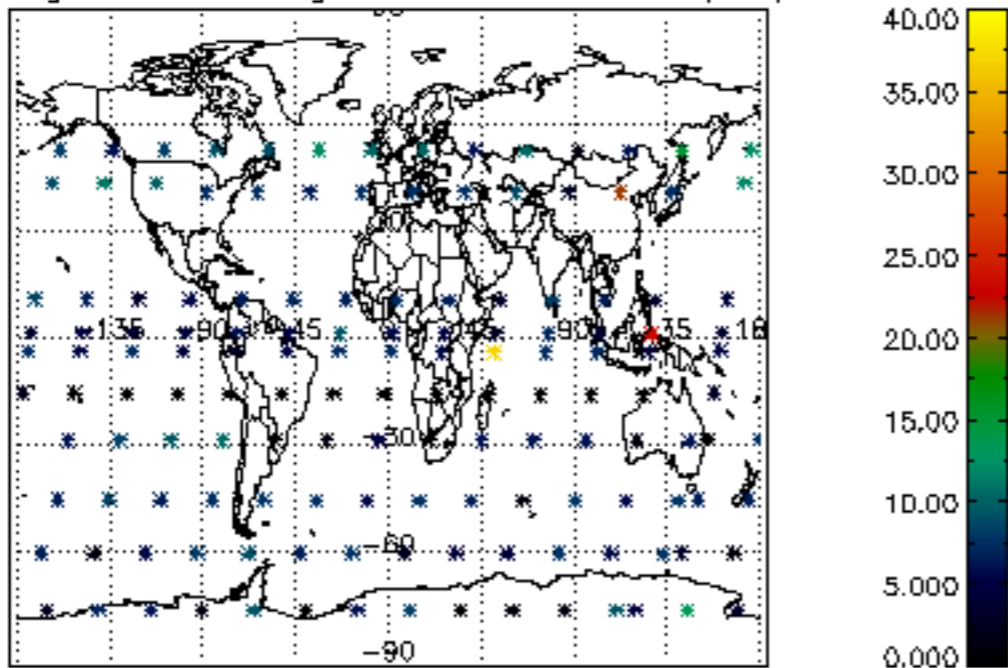
Percentage of cosmic ray hits per profile



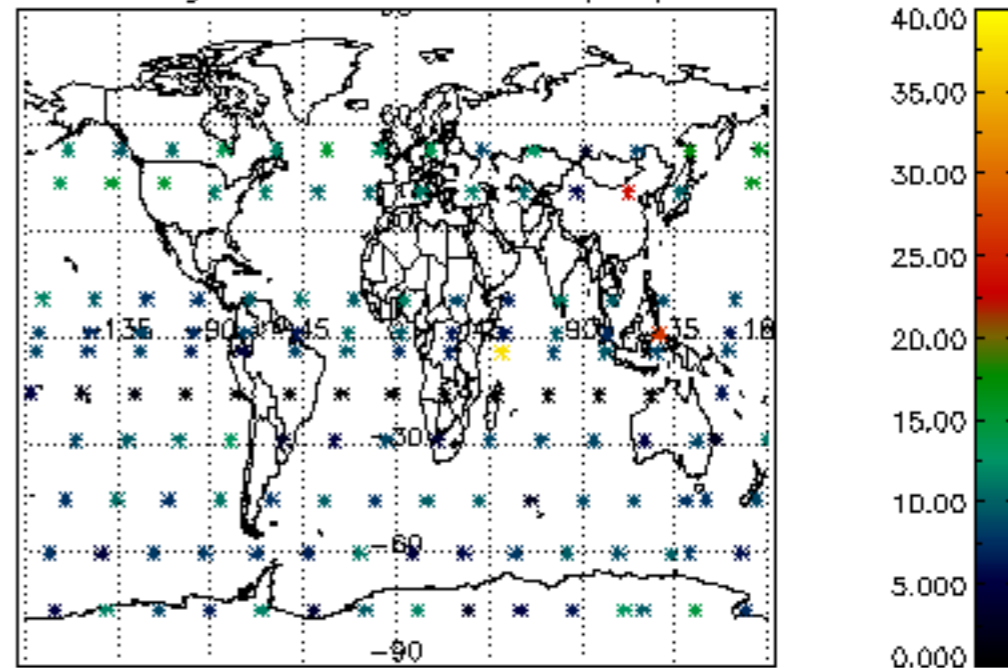
Percentage of datation errors per profile

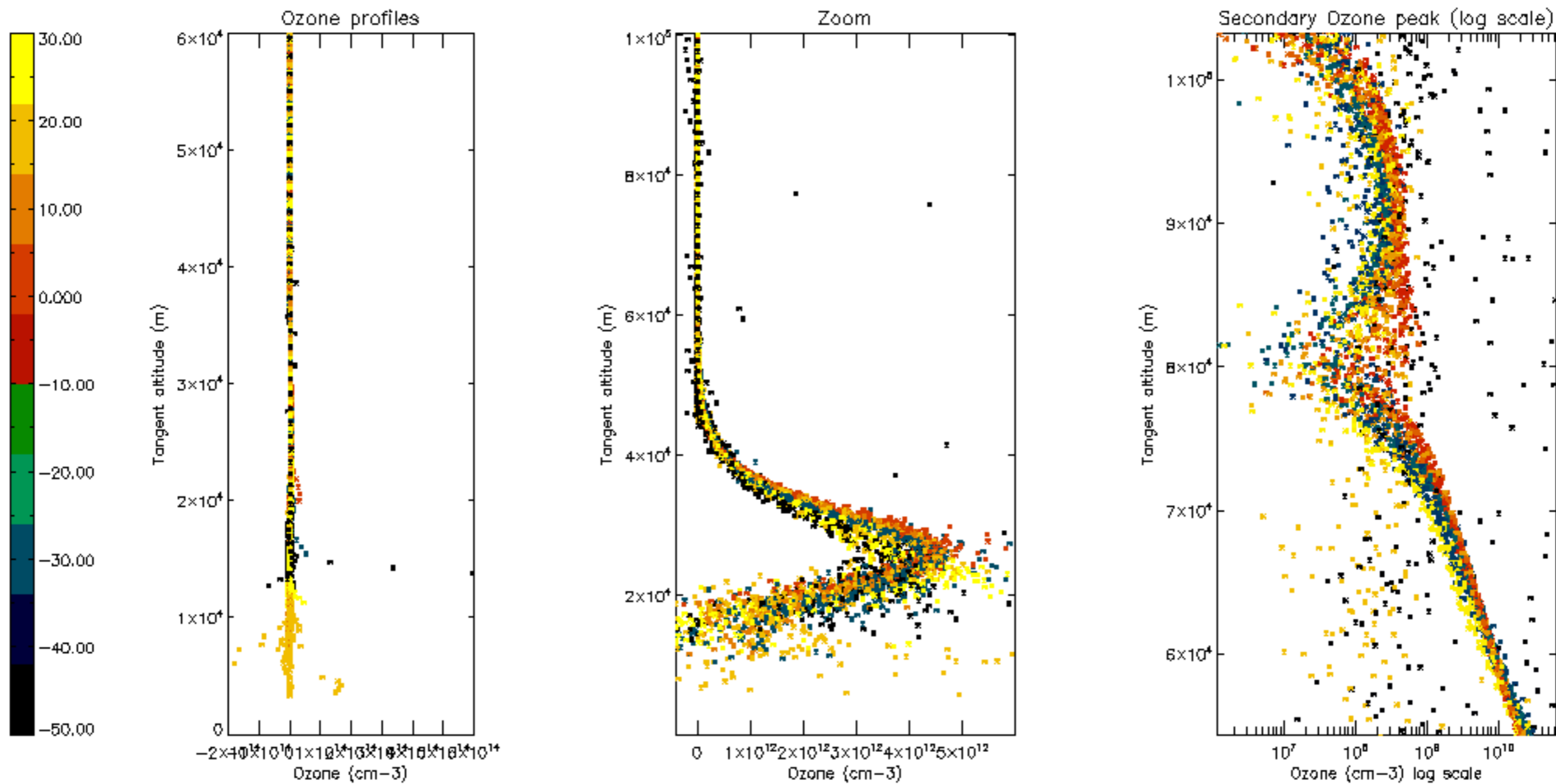


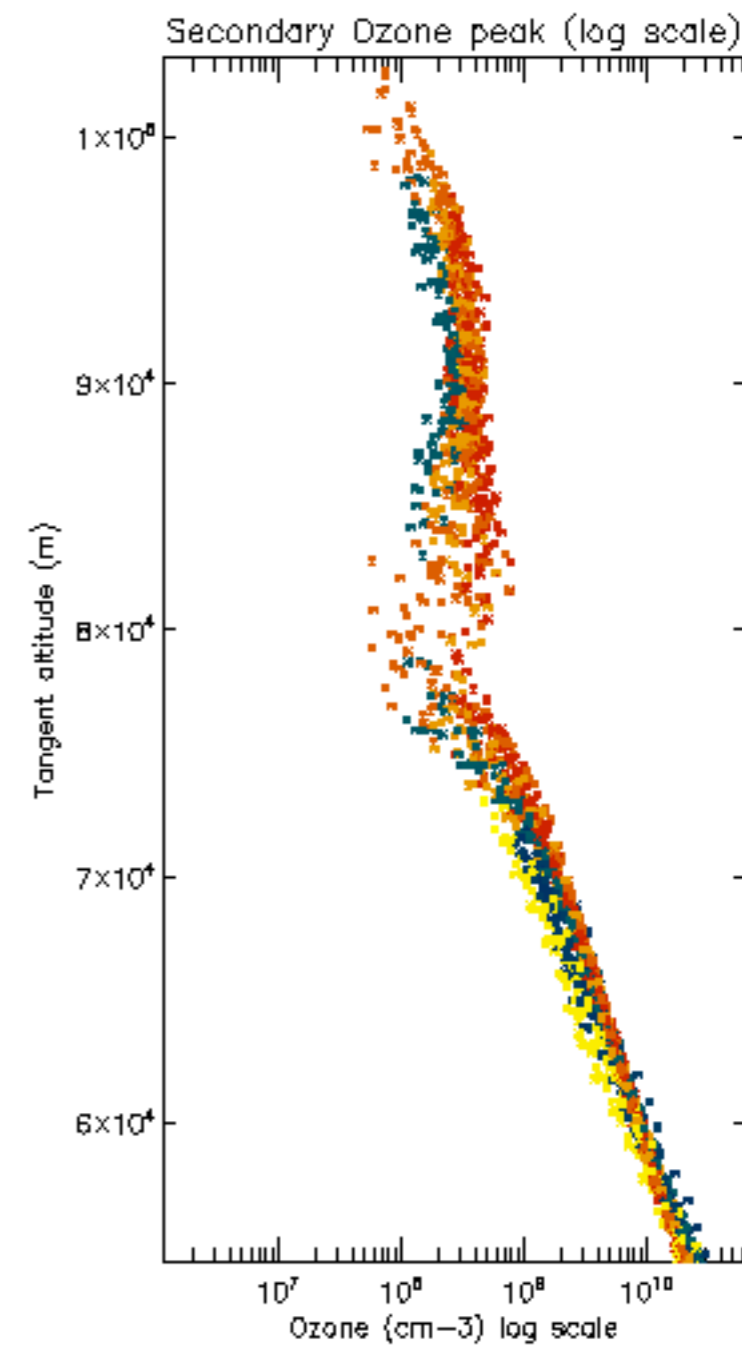
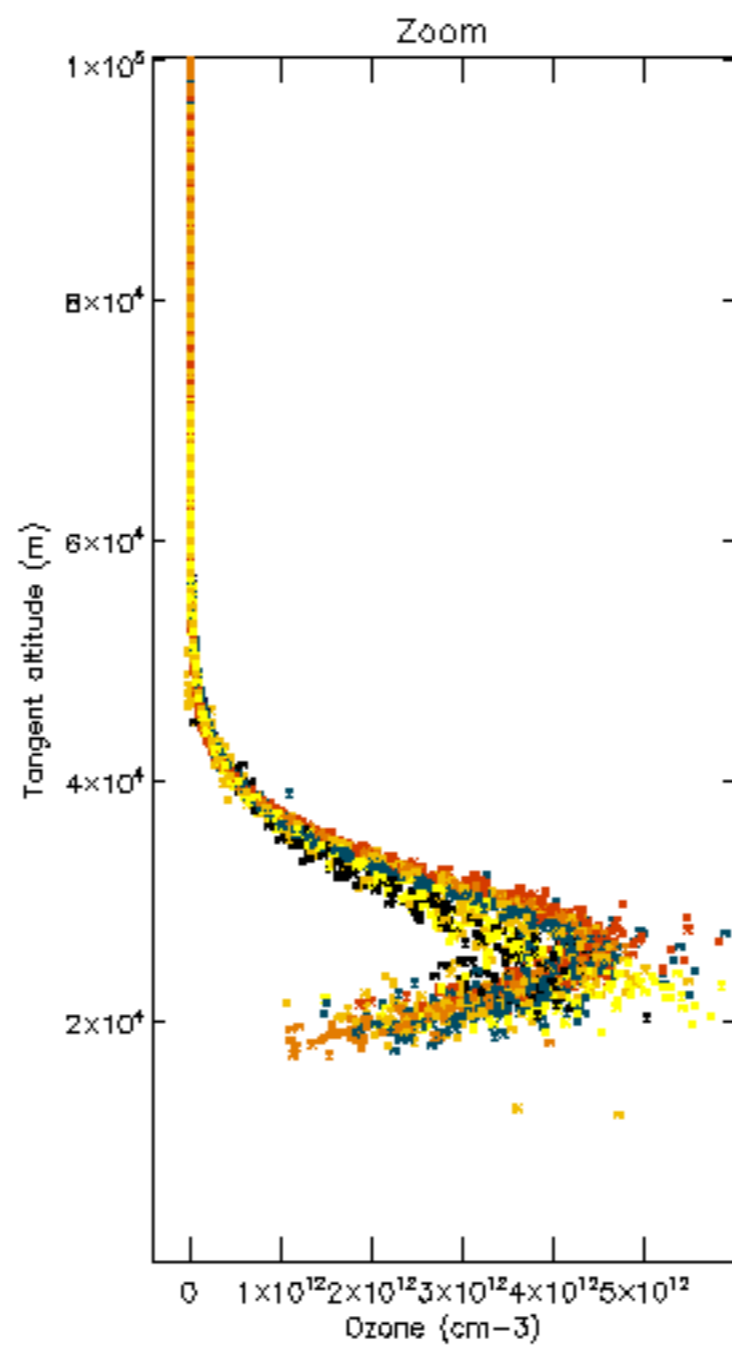
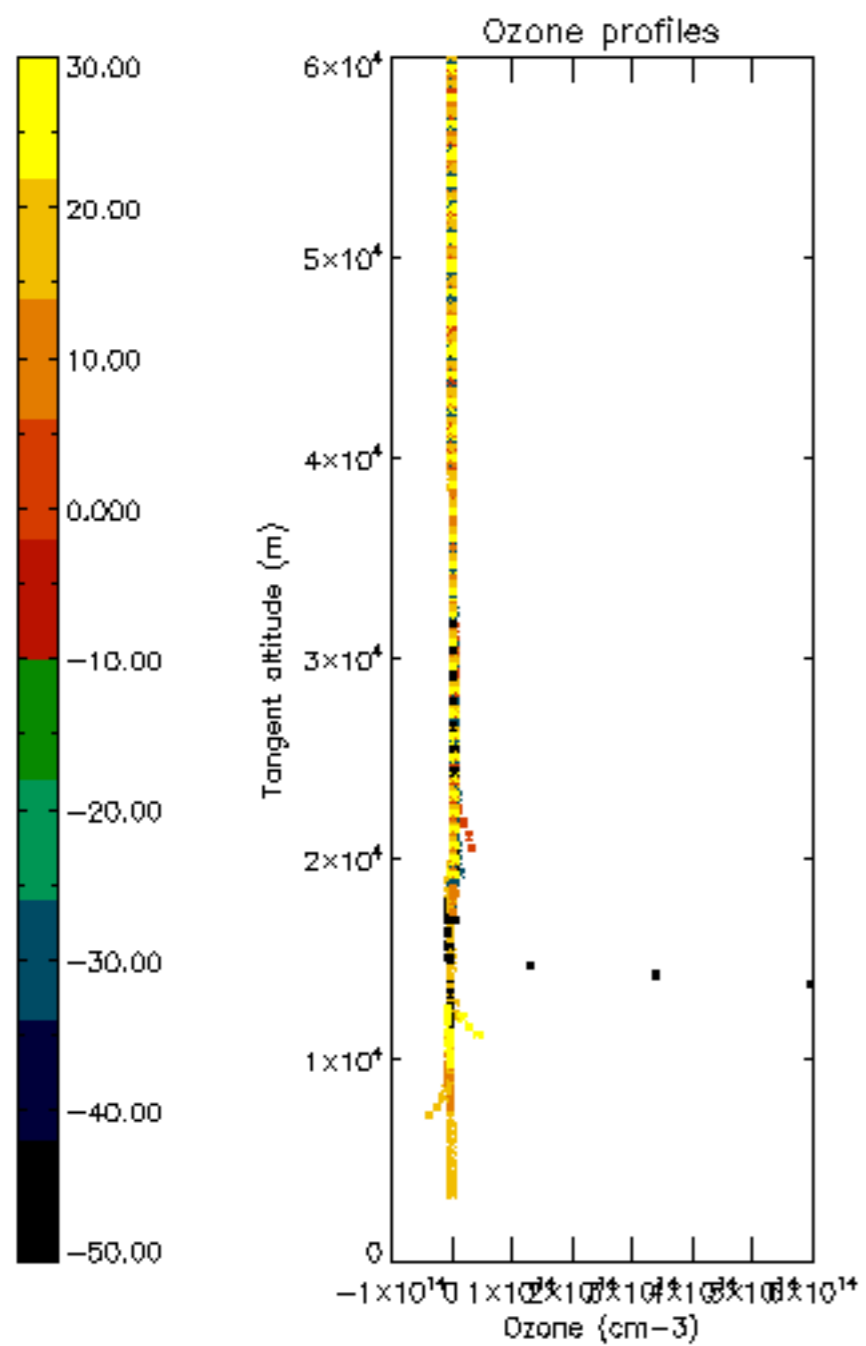
Percentage of star falling outside central band per profile

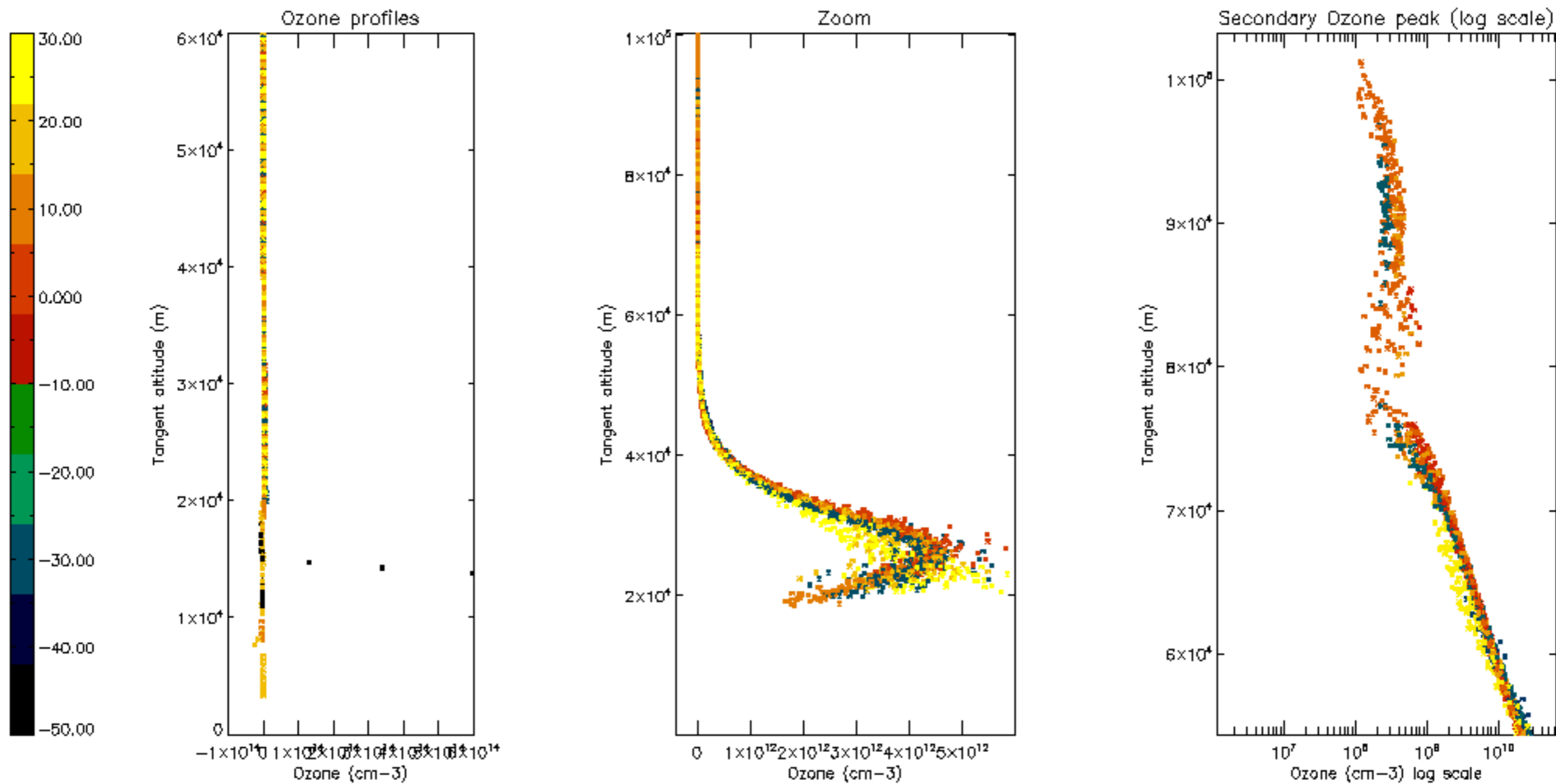


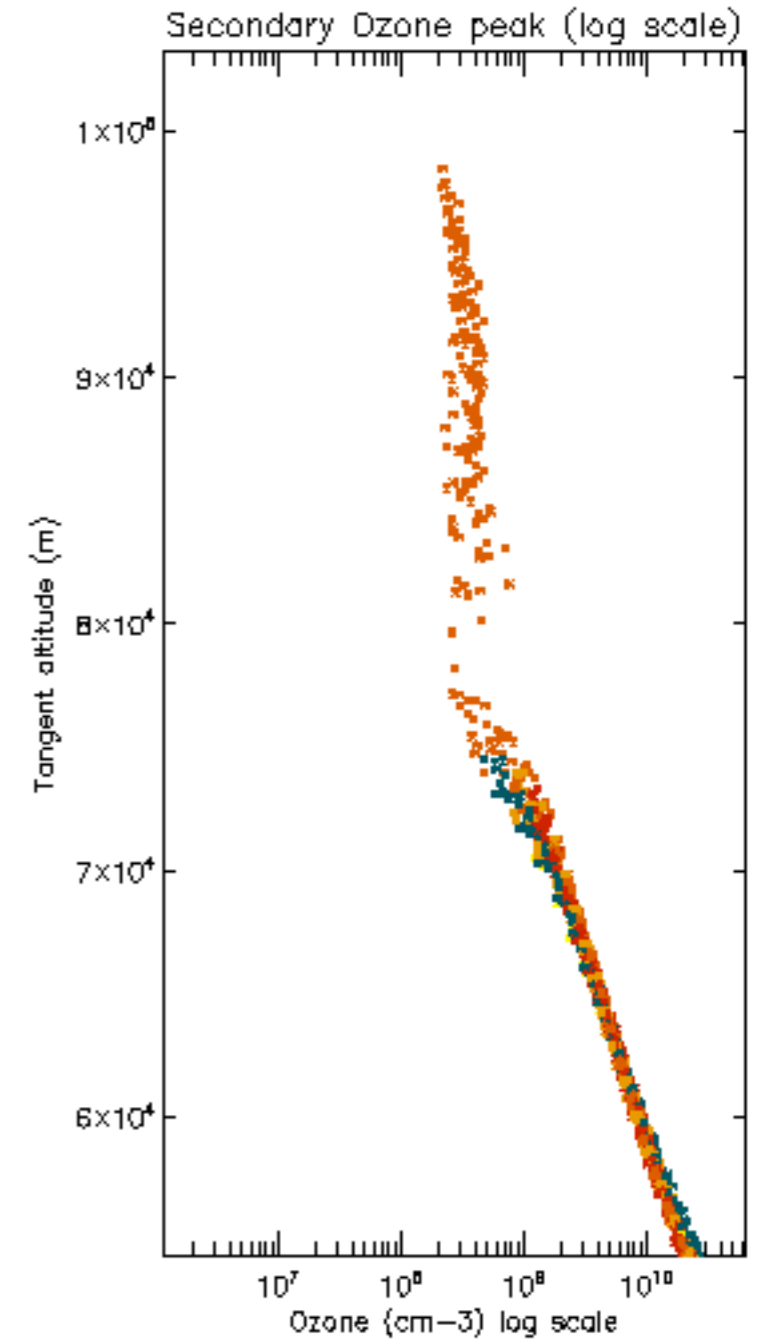
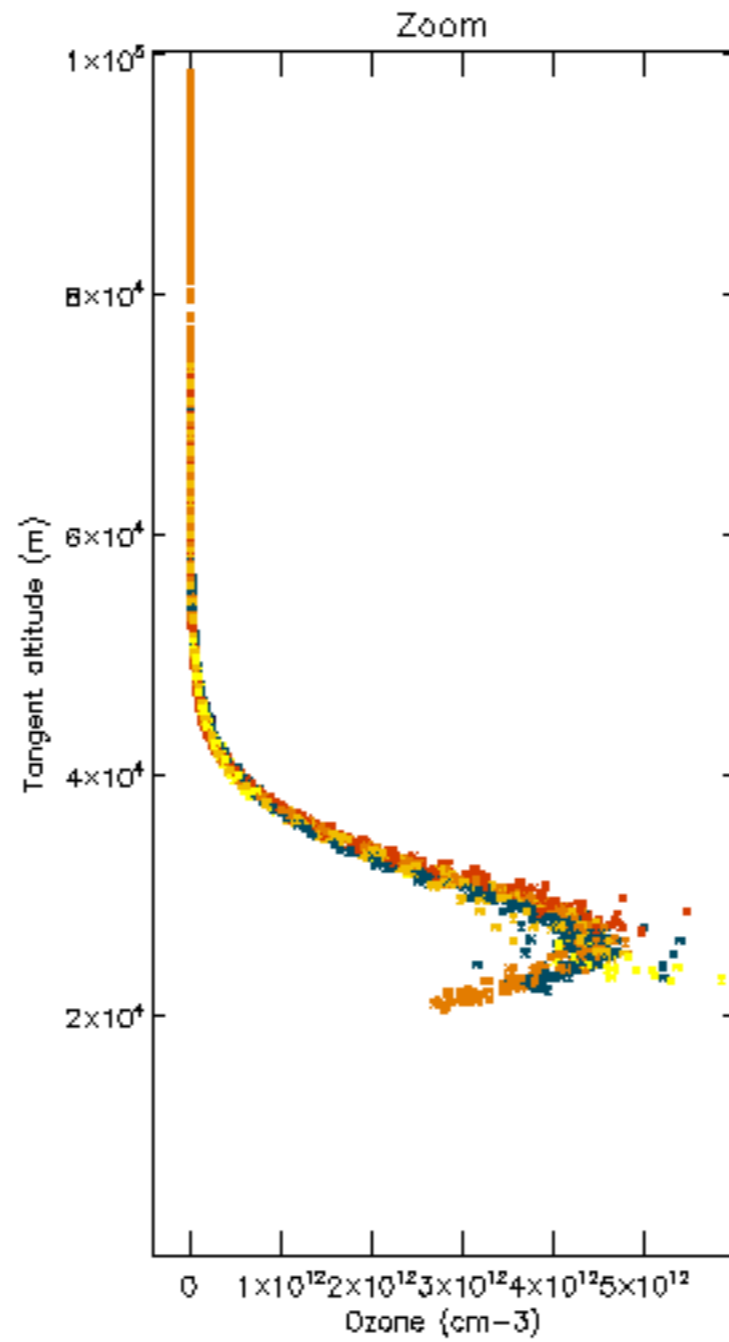
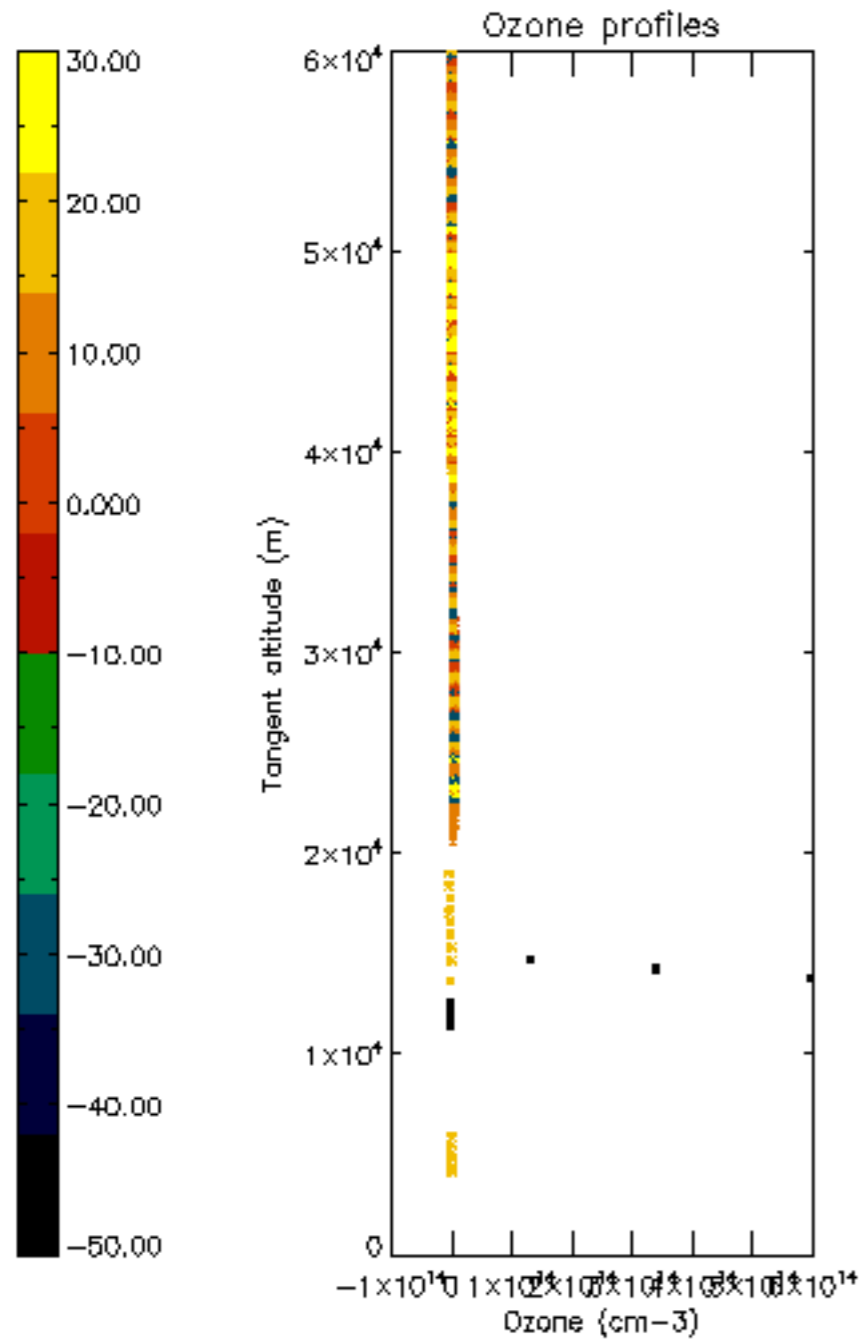
Percentage of saturation errors per profile

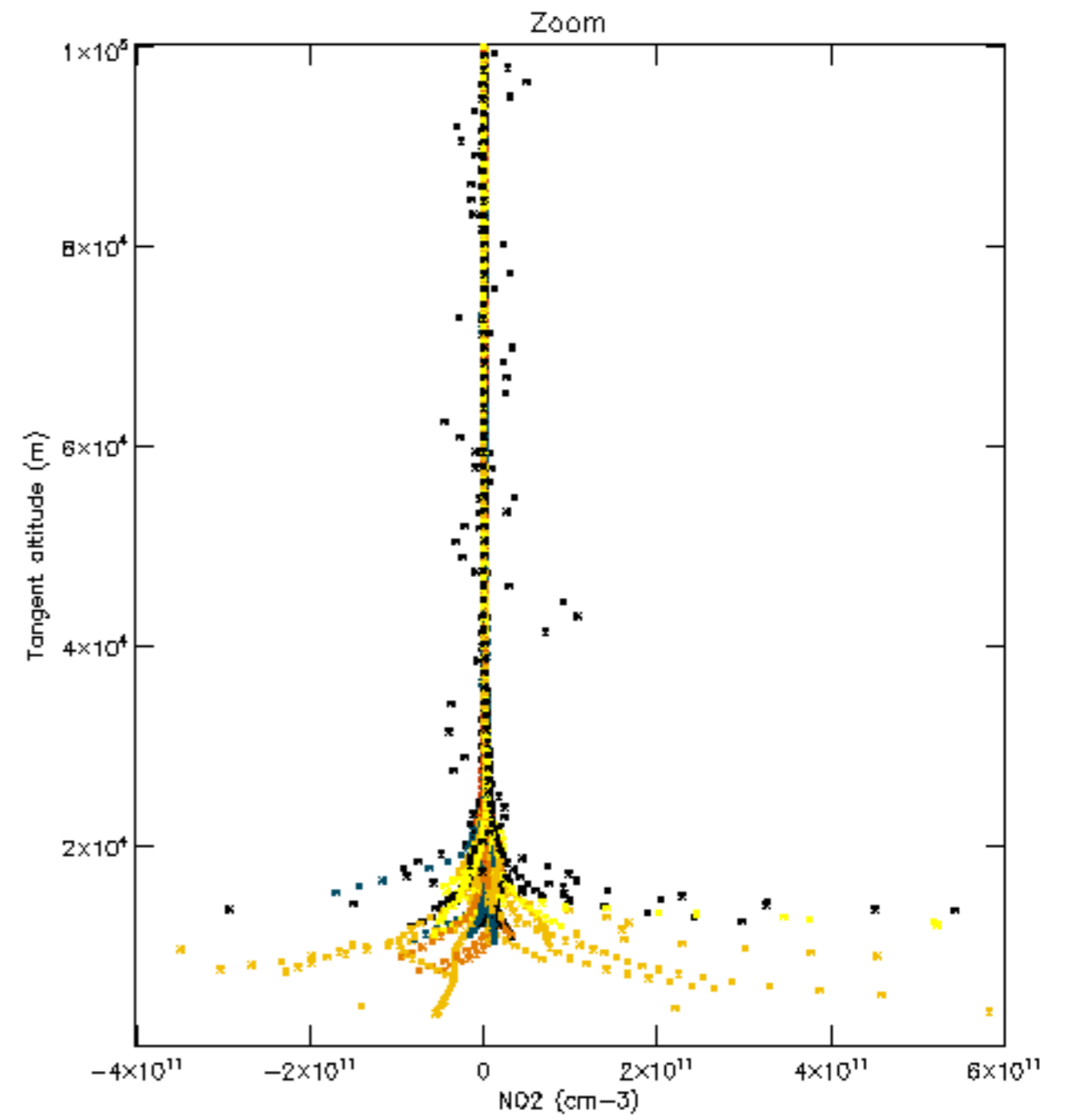
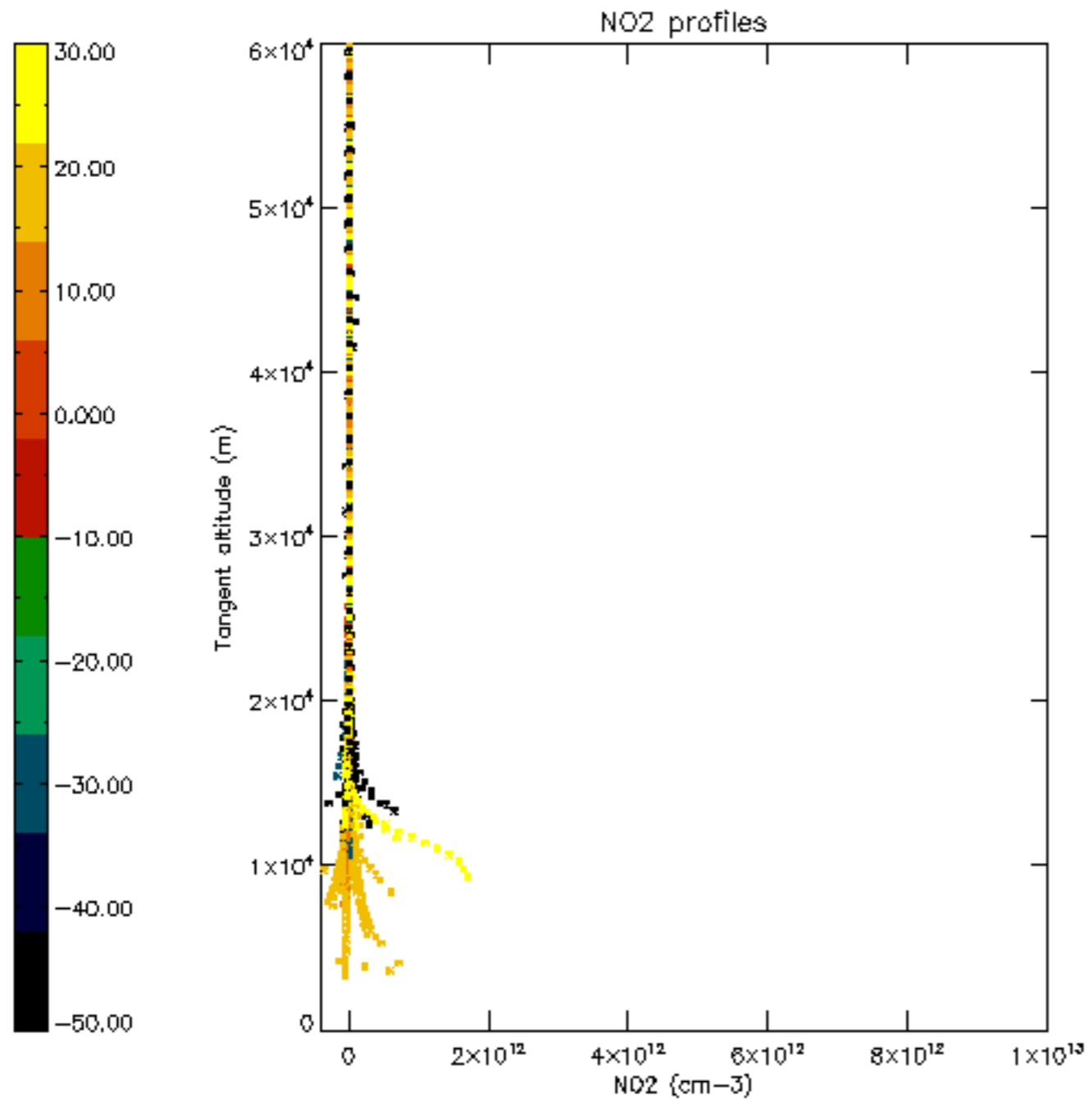


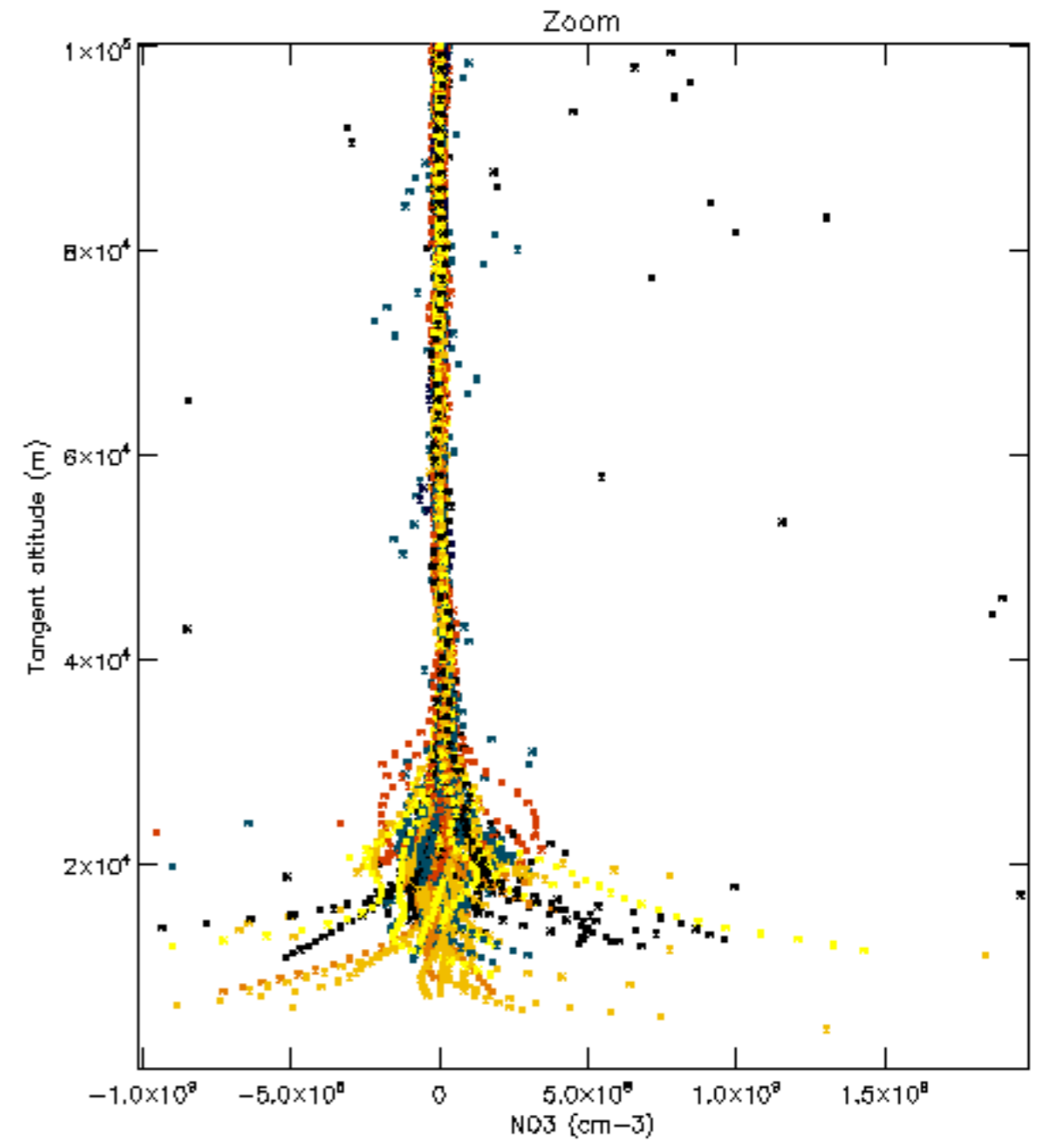
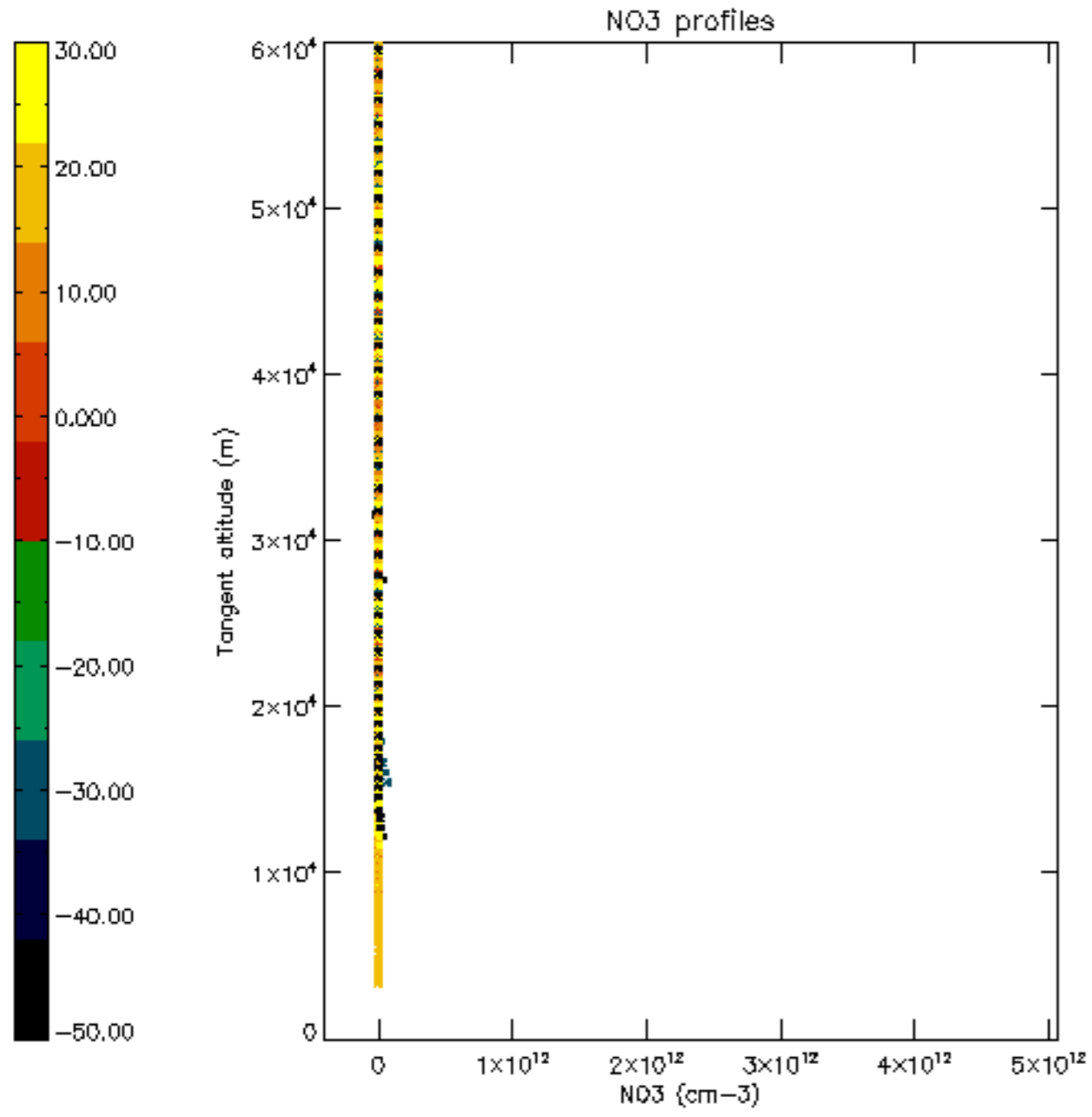


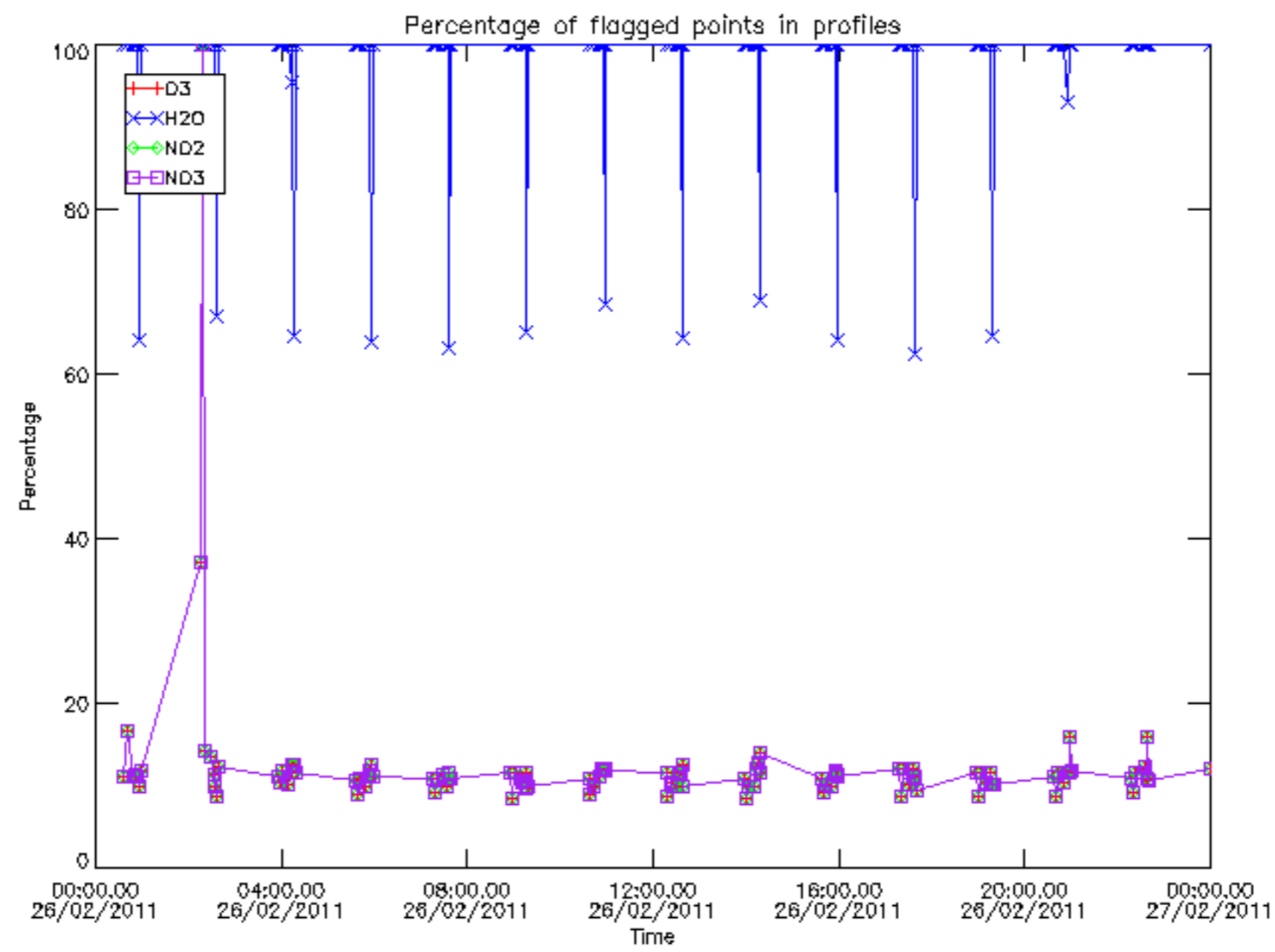




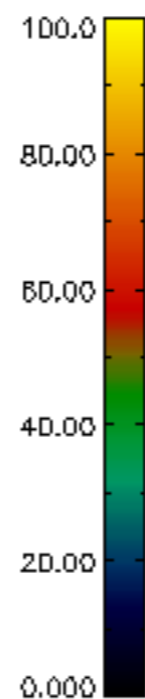
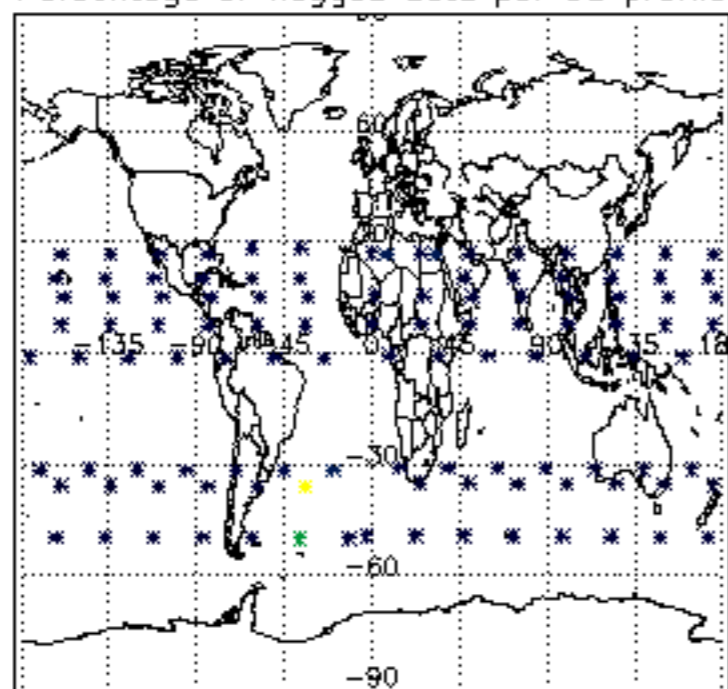




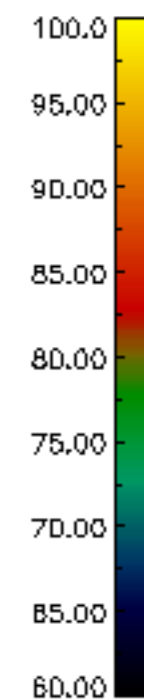
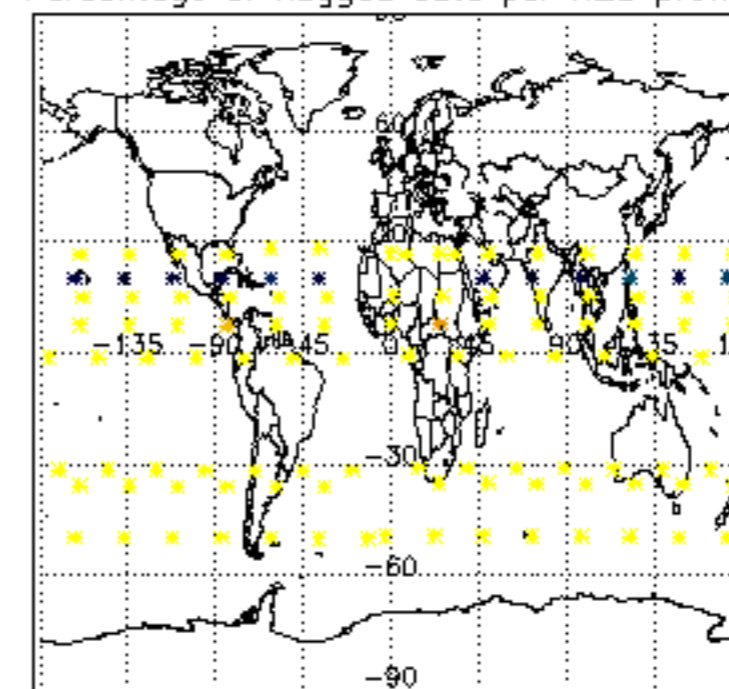




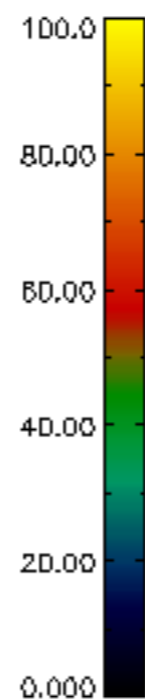
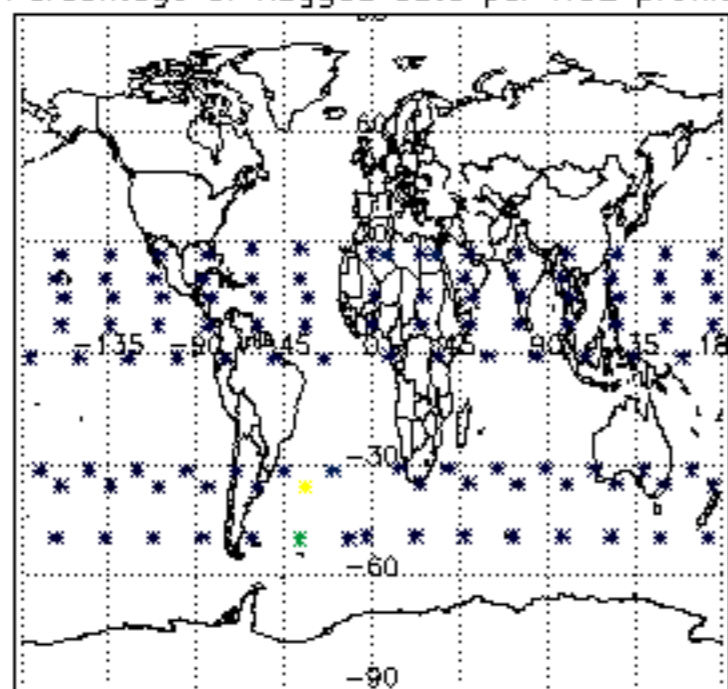
Percentage of flagged data per D3 profile



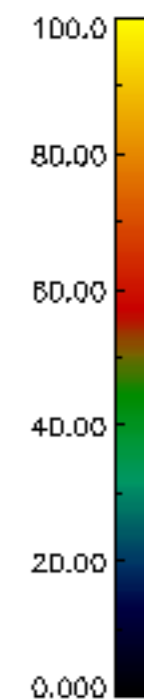
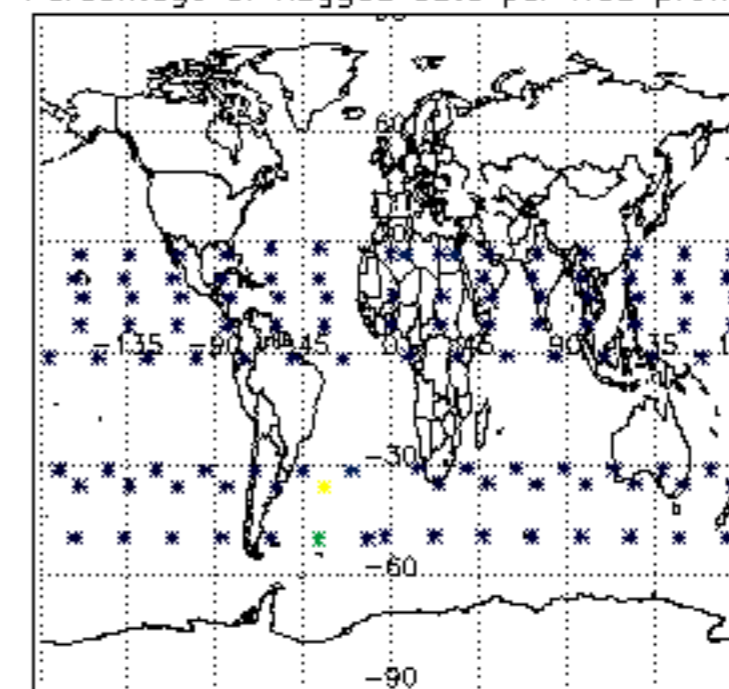
Percentage of flagged data per H2O profile

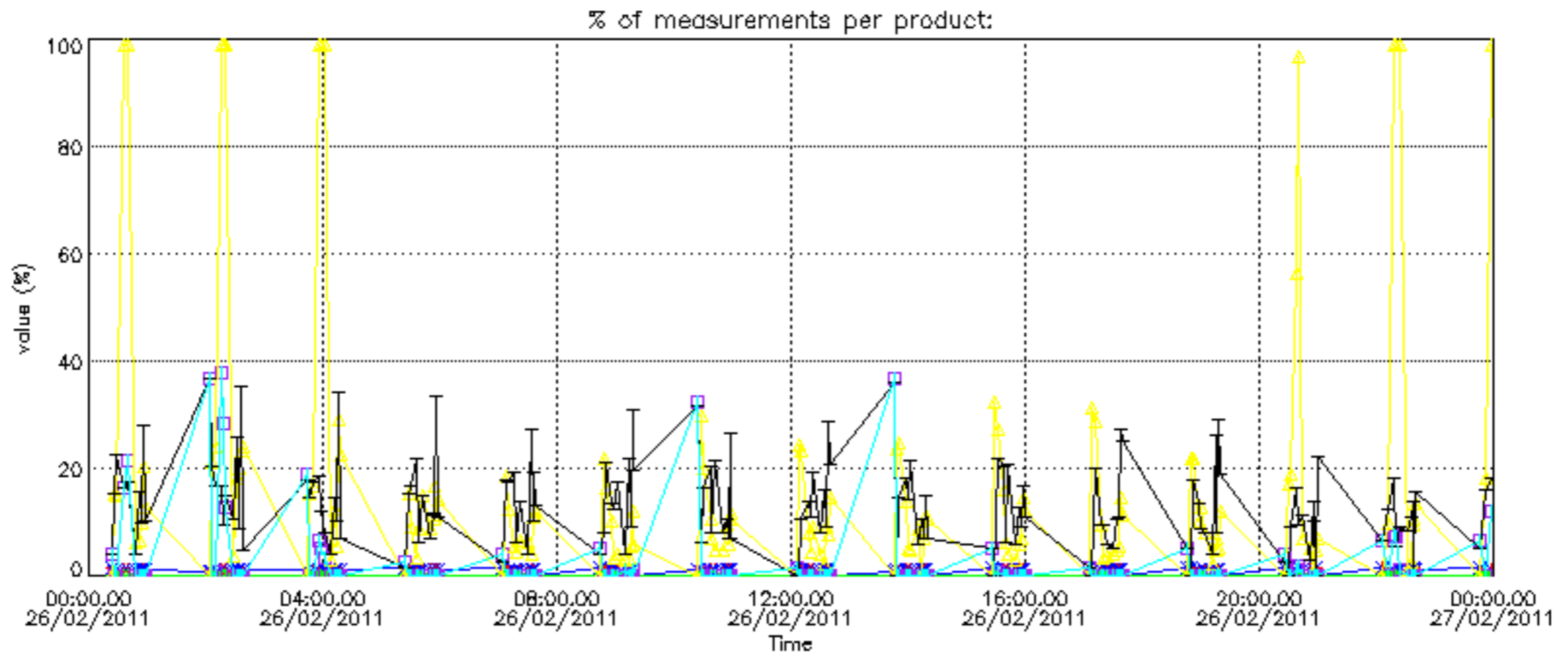


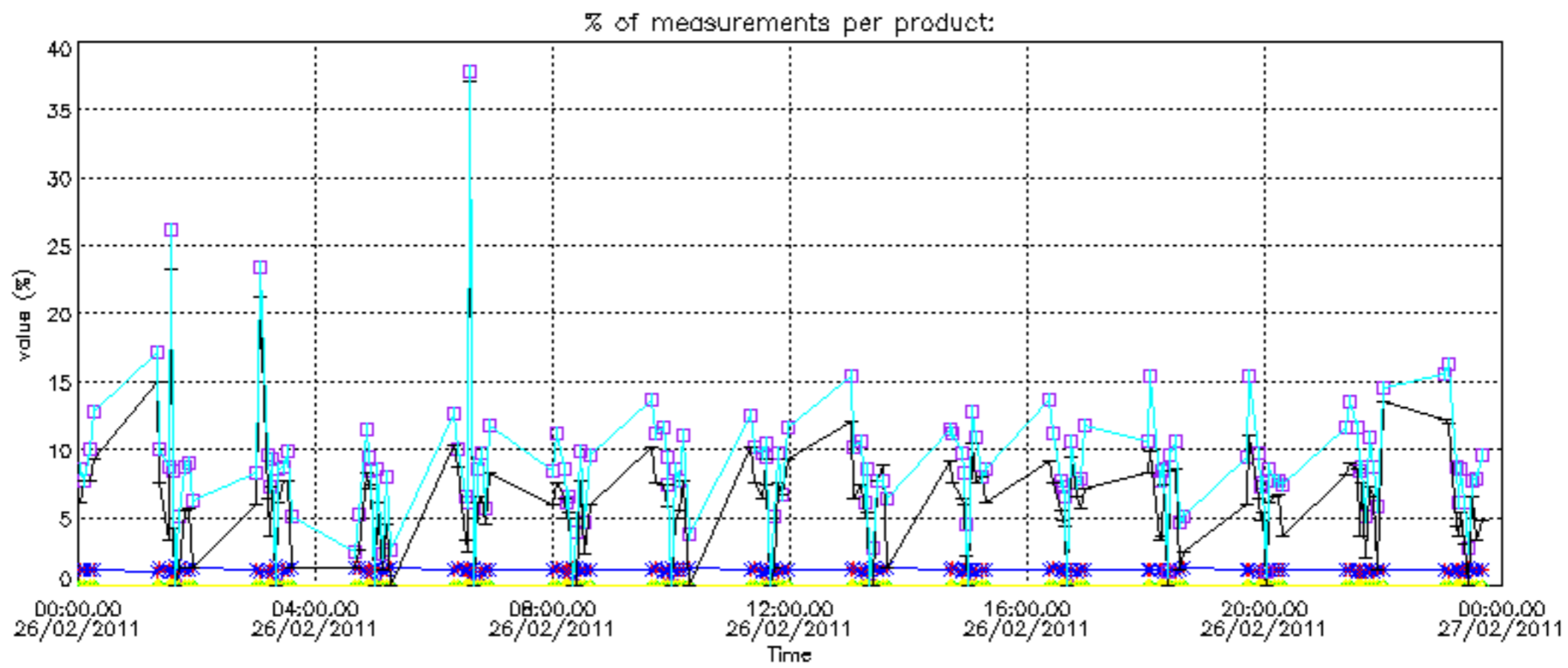
Percentage of flagged data per NO2 profile



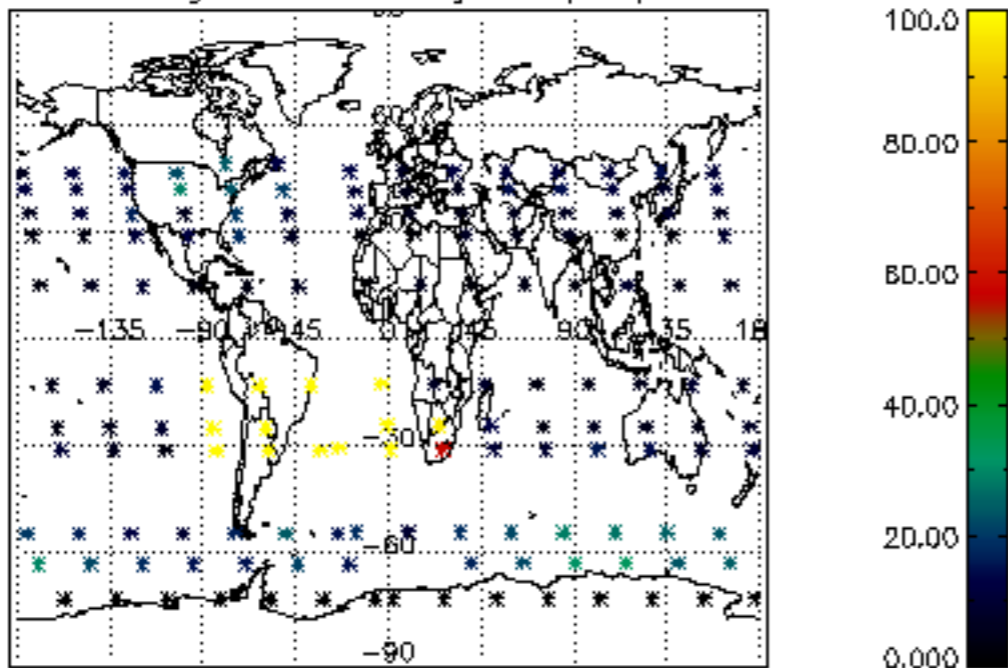
Percentage of flagged data per NO3 profile



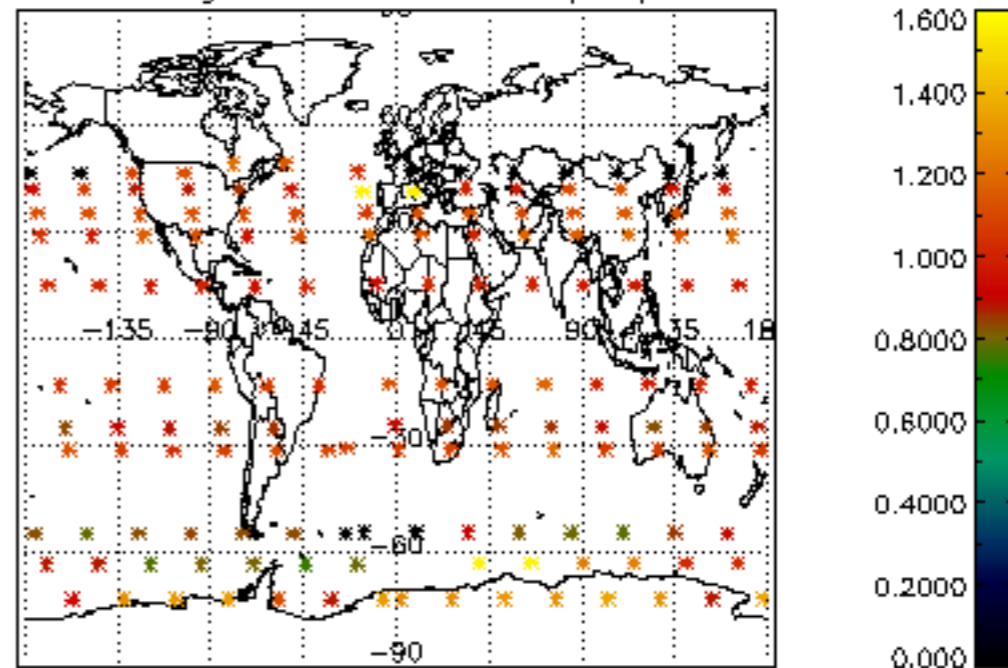




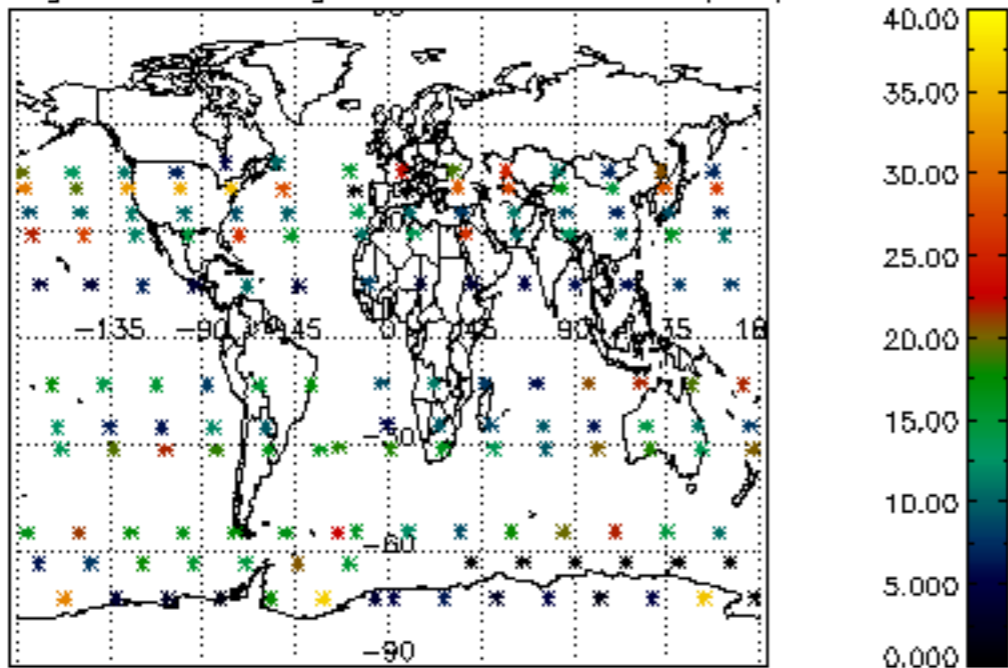
Percentage of cosmic ray hits per profile



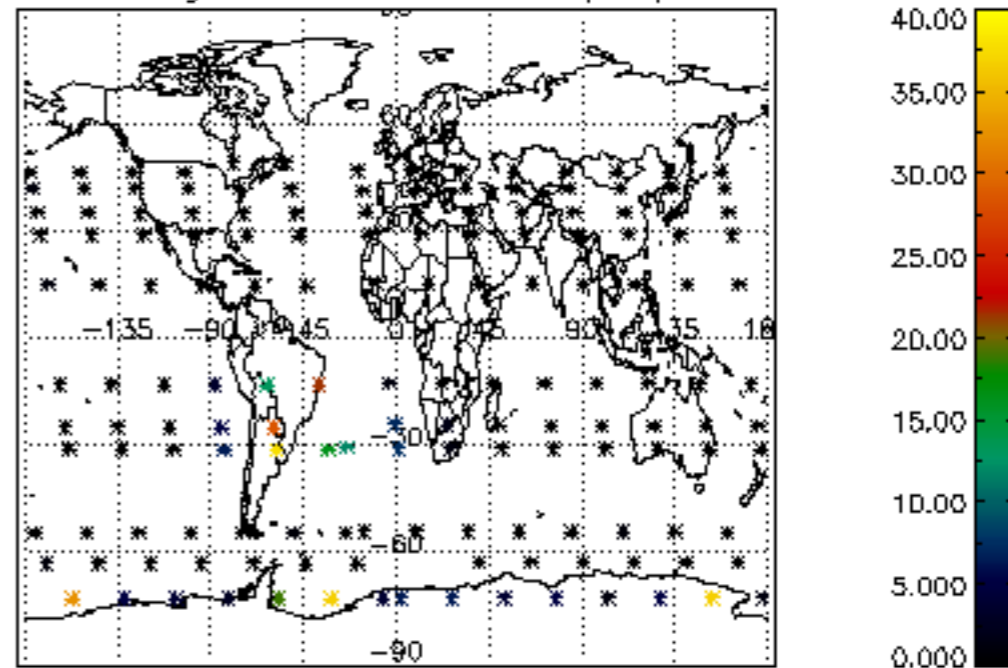
Percentage of datation errors per profile



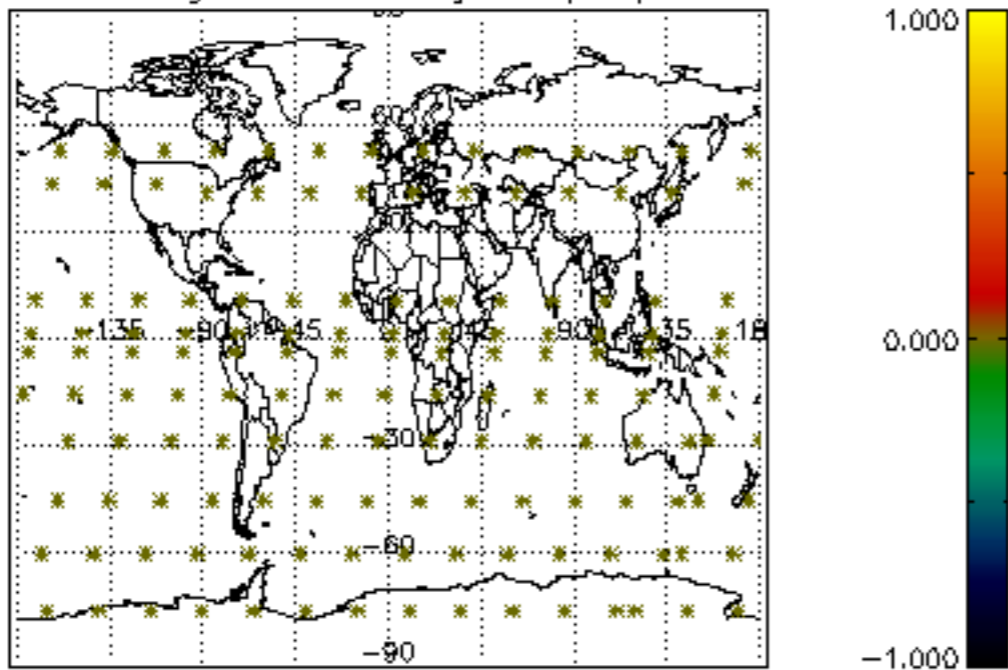
Percentage of star falling outside central band per profile



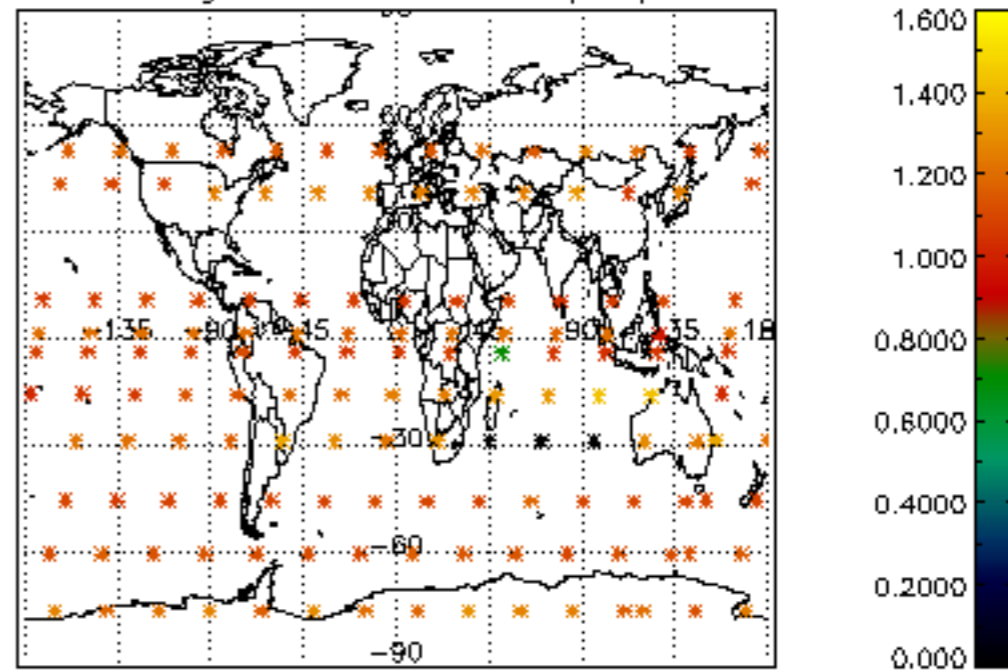
Percentage of saturation errors per profile



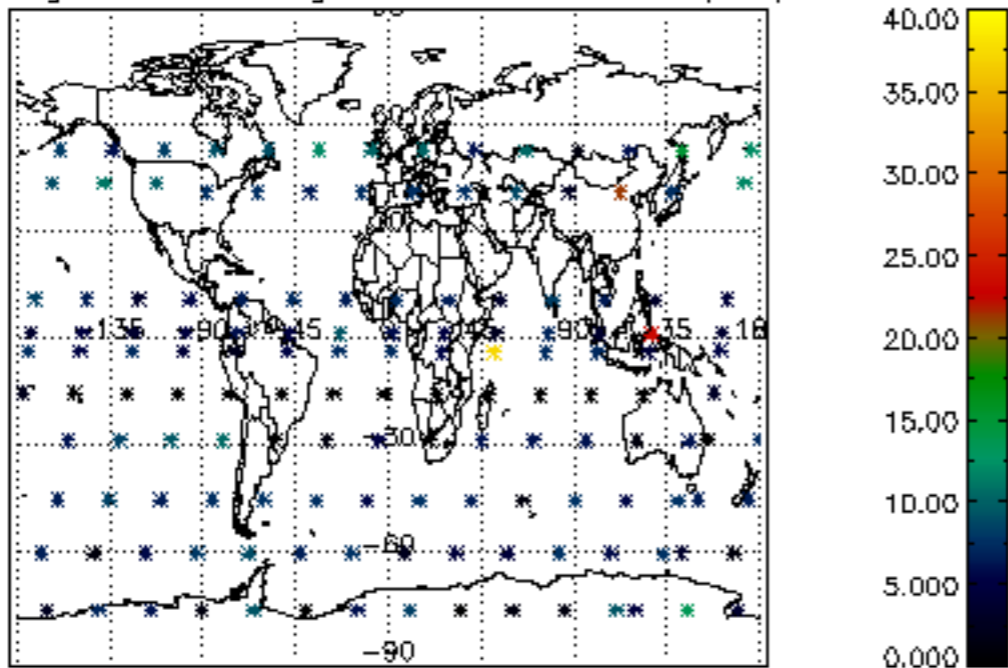
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

