

GOMOS Level 2 Daily Report

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This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P).
 It is intended to monitor some important parameters that will impact the quality of these products.
 A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	25APR2013 17:34:58
Data source version	GOMOS/6.01
Start time of products	09-02-2009 (09FEB2009 00:00:00)
Stop time of products	10-02-2009 (10FEB2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	81
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

!Warning: No products without errors in BRIGHT limb contitions found

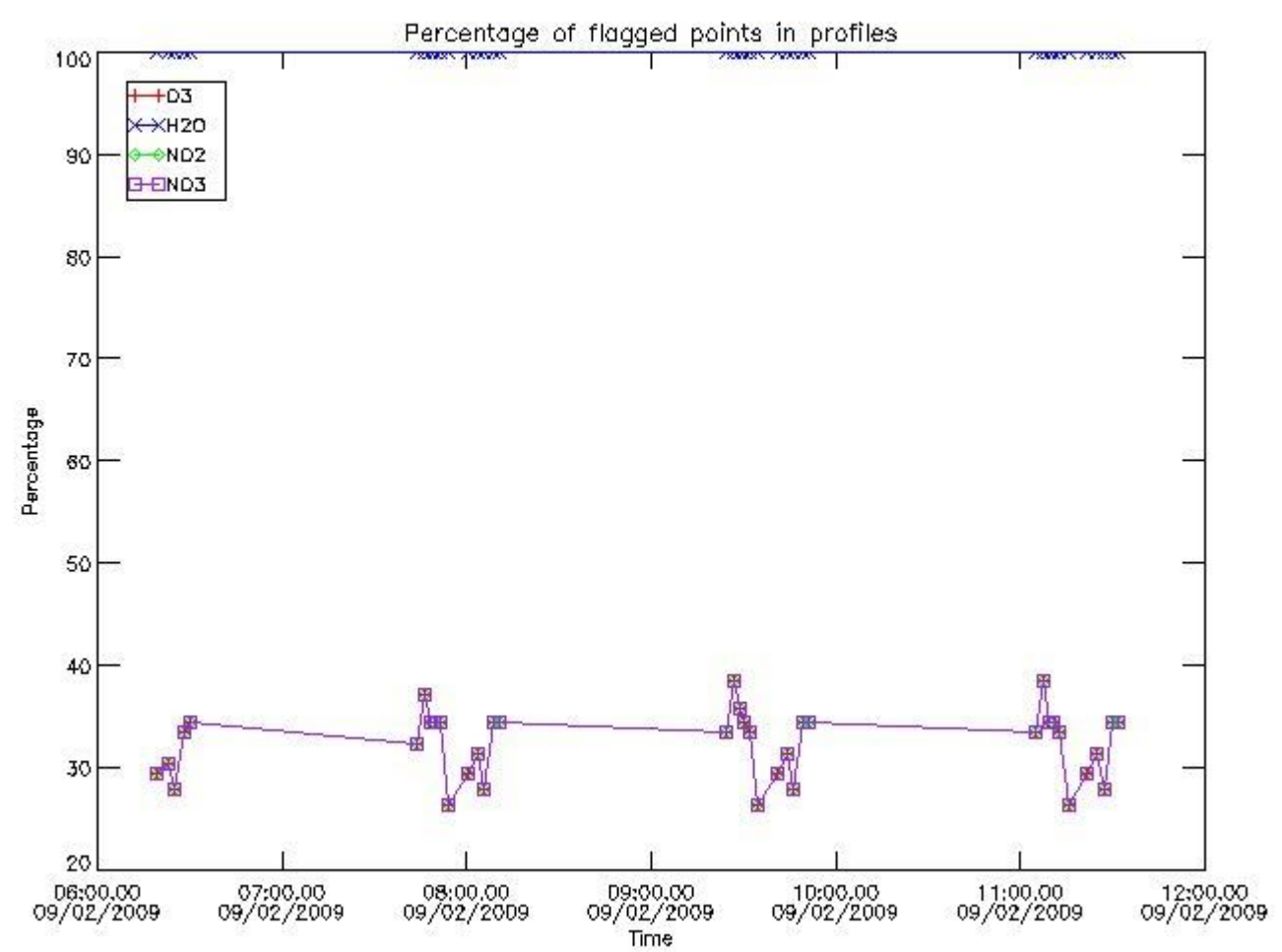
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20090209_061930_000000182076_00192_36318_1258.N1	09-FEB-2009 06:19:30	Dark	17.500	10	Bet Cen	0.61000	28000.	35	36318	No
2	GOM_NL__2PRFIN20090209_062244_000000172076_00192_36318_1259.N1	09-FEB-2009 06:22:44	Dark	17.000	12	Alp1Cru	0.77500	30000.	34	36318	No
3	GOM_NL__2PRFIN20090209_062513_000000192076_00192_36318_1260.N1	09-FEB-2009 06:25:13	Dark	18.500	99	Del Cen	2.5750	26000.	37	36318	No
4	GOM_NL__2PRFIN20090209_062809_000000162076_00192_36318_1261.N1	09-FEB-2009 06:28:09	Dark	15.500	71	Iot Car	2.2460	7700.0	31	36318	No
5	GOM_NL__2PRFIN20090209_062950_000000152076_00192_36318_1262.N1	09-FEB-2009 06:29:50	Dark	15.000	46	Del Vel	1.9540	10600.	30	36318	No
6	GOM_NL__2PRFIN20090209_063229_000000152076_00192_36318_1263.N1	09-FEB-2009 06:32:29	Straylight	15.000	65	Lam Vel	2.2040	4400.0	30	36318	No
7	GOM_NL__2PRFIN20090209_063421_000000142076_00192_36318_1264.N1	09-FEB-2009 06:34:21	Straylight	14.000	70	Zet Pup	2.2460	39000.	28	36318	No
8	GOM_NL__2PRFIN20090209_063839_000000152076_00192_36318_1265.N1	09-FEB-2009 06:38:39	Straylight	14.500	132	15Rho Pup	2.8030	6900.0	29	36318	No
9	GOM_NL__2PRFIN20090209_064710_000000162076_00192_36318_1266.N1	09-FEB-2009 06:47:10	Twilight	15.500	8	10Alp CMi	0.40000	6500.0	31	36318	No
10	GOM_NL__2PRFIN20090209_065334_000000162076_00192_36318_1267.N1	09-FEB-2009 06:53:34	Twilight	16.000	17	78Bet Gem	1.1610	4500.0	32	36318	No
11	GOM_NL__2PRFIN20090209_071059_000000142076_00192_36318_1268.N1	09-FEB-2009 07:10:59	Twilight	13.500	49	1Alp UMi	1.9900	6300.0	27	36318	No
12	GOM_NL__2PRFIN20090209_071331_000000142076_00192_36318_1269.N1	09-FEB-2009 07:13:31	Twilight	13.500	60	7Bet UMi	2.0810	3950.0	27	36318	No
13	GOM_NL__2PRFIN20090209_072152_000000112076_00192_36318_1270.N1	09-FEB-2009 07:21:52	Twilight	11.000	130	23Bet Dra	2.7990	5800.0	22	36318	No
14	GOM_NL__2PRFIN20090209_072329_000000102076_00192_36318_1271.N1	09-FEB-2009 07:23:29	Straylight	10.000	144	18Del Cyg	2.8600	11000.	20	36318	No
15	GOM_NL__2PRFIN20090209_072550_000000102076_00192_36318_1272.N1	09-FEB-2009 07:25:50	Straylight	10.000	5	3Alp Lyr	0.033000	11000.	20	36318	No
16	GOM_NL__2PRFIN20090209_073236_000000102076_00192_36318_1273.N1	09-FEB-2009 07:32:36	Twilight	10.000	168	17Zet Aql	2.9860	11000.	20	36318	No
17	GOM_NL__2PRFIN20090209_073428_000000122076_00192_36318_1274.N1	09-FEB-2009 07:34:28	Twilight	11.500	59	55Alp Oph	2.0800	8900.0	23	36318	No
18	GOM_NL__2PRFIN20090209_073640_000000122076_00192_36318_1275.N1	09-FEB-2009 07:36:40	Twilight	12.000	126	60Bet Oph	2.7700	4250.0	24	36318	No
19	GOM_NL__2PRFIN20090209_074336_000000162076_00192_36318_1276.N1	09-FEB-2009 07:43:36	Dark	16.000	86	35Eta Oph	2.4300	10200.	32	36318	No
20	GOM_NL__2PRFIN20090209_074515_000000142076_00192_36318_1277.N1	09-FEB-2009 07:45:15	Twilight	14.000	116	19Del Sgr	2.7000	4100.0	28	36318	No
21	GOM_NL__2PRFIN20090209_074625_000000142076_00192_36318_1278.N1	09-FEB-2009 07:46:25	Dark	14.000	38	20Eps Sgr	1.8360	11000.	28	36318	No
22	GOM_NL__2PRFIN20090209_074817_000000152076_00192_36318_1279.N1	09-FEB-2009 07:48:17	Dark	15.000	25	35Lam Sco	1.6200	28000.	30	36318	No
23	GOM_NL__2PRFIN20090209_074939_000000152076_00192_36318_1280.N1	09-FEB-2009 07:49:39	Dark	15.000	40	The Sco	1.8590	7100.0	30	36318	No
24	GOM_NL__2PRFIN20090209_075128_000000152076_00192_36318_1281.N1	09-FEB-2009 07:51:28	Dark	15.000	147	Alp Ara	2.8770	26000.	30	36318	No
25	GOM_NL__2PRFIN20090209_075417_000000202076_00192_36318_1282.N1	09-FEB-2009 07:54:17	Dark	19.500	131	Gam Lup	2.8000	26000.	39	36318	No
26	GOM_NL__2PRFIN20090209_080007_000000182076_00193_36319_1292.N1	09-FEB-2009 08:00:07	Dark	17.500	10	Bet Cen	0.61000	28000.	35	36319	No
27	GOM_NL__2PRFIN20090209_080321_000000172076_00193_36319_1293.N1	09-FEB-2009 08:03:21	Dark	16.500	12	Alp1Cru	0.77500	30000.	33	36319	No
28	GOM_NL__2PRFIN20090209_080549_000000192076_00193_36319_1294.N1	09-FEB-2009 08:05:49	Dark	18.500	99	Del Cen	2.5750	26000.	37	36319	No
29	GOM_NL__2PRFIN20090209_080846_000000152076_00193_36319_1295.N1	09-FEB-2009 08:08:46	Dark	15.000	71	Iot Car	2.2460	7700.0	30	36319	No
30	GOM_NL__2PRFIN20090209_081026_000000152076_00193_36319_1296.N1	09-FEB-2009 08:10:26	Dark	15.000	46	Del Vel	1.9540	10600.	30	36319	No
31	GOM_NL__2PRFIN20090209_081305_000000162076_00193_36319_1297.N1	09-FEB-2009 08:13:05	Straylight	15.500	65	Lam Vel	2.2040	4400.0	31	36319	No
32	GOM_NL__2PRFIN20090209_081501_000000112076_00193_36319_1298.N1	09-FEB-2009 08:15:01	Straylight	10.500	70	Zet Pup	2.2460	39000.	21	36319	No
33	GOM_NL__2PRFIN20090209_081915_000000142076_00193_36319_1299.N1	09-FEB-2009 08:19:15	Straylight	13.500	132	15Rho Pup	2.8030	6900.0	27	36319	No
34	GOM_NL__2PRFIN20090209_082746_000000152076_00193_36319_1300.N1	09-FEB-2009 08:27:46	Twilight	15.000	8	10Alp CMi	0.40000	6500.0	30	36319	No
35	GOM_NL__2PRFIN20090209_083410_000000162076_00193_36319_1301.N1	09-FEB-2009 08:34:10	Twilight	15.500	17	78Bet Gem	1.1610	4500.0	31	36319	No
36	GOM_NL__2PRFIN20090209_085135_000000142076_00193_36319_1302.N1	09-FEB-2009 08:51:35	Twilight	13.500	49	1Alp UMi	1.9900	6300.0	27	36319	No
37	GOM_NL__2PRFIN20090209_085407_000000142076_00193_36319_1303.N1	09-FEB-2009 08:54:07	Twilight	13.500	60	7Bet UMi	2.0810	3950.0	27	36319	No
38	GOM_NL__2PRFIN20090209_090228_000000112076_00193_36319_1304.N1	09-FEB-2009 09:02:28	Twilight	11.000	130	23Bet Dra	2.7990	5800.0	22	36319	No
39	GOM_NL__2PRFIN20090209_090405_000000102076_00193_36319_1305.N1	09-FEB-2009 09:04:05	Straylight	10.000	144	18Del Cyg	2.8600	11000.	20	36319	No
40	GOM_NL__2PRFIN20090209_090626_000000102076_00193_36319_1306.N1	09-FEB-2009 09:06:26	Straylight	9.5000	5	3Alp Lyr	0.033000	11000.	19	36319	No
41	GOM_NL__2PRFIN20090209_091312_000000102076_00193_36319_1307.N1	09-FEB-2009 09:13:12	Twilight	10.000	168	17Zet Aql	2.9860	11000.	20	36319	No

42	GOM_NL__2PRFIN20090209_091504_000000122076_00193_36319_1308.N1	09-FEB-2009 09:15:04	Twilight	12.000	59	55Alp Oph	2.0800	8900.0	24	36319	No
43	GOM_NL__2PRFIN20090209_091716_000000122076_00193_36319_1309.N1	09-FEB-2009 09:17:16	Twilight	12.000	126	60Bet Oph	2.7700	4250.0	24	36319	No
44	GOM_NL__2PRFIN20090209_092413_000000162076_00193_36319_1310.N1	09-FEB-2009 09:24:13	Dark	15.500	86	35Eta Oph	2.4300	10200.	31	36319	No
45	GOM_NL__2PRFIN20090209_092551_000000142076_00193_36319_1311.N1	09-FEB-2009 09:25:51	Twilight	13.500	116	19Del Sgr	2.7000	4100.0	27	36319	No
46	GOM_NL__2PRFIN20090209_092701_000000142076_00193_36319_1312.N1	09-FEB-2009 09:27:01	Dark	13.500	38	20Eps Sgr	1.8360	11000.	27	36319	No
47	GOM_NL__2PRFIN20090209_092854_000000152076_00193_36319_1313.N1	09-FEB-2009 09:28:54	Dark	14.500	25	35Lam Sco	1.6200	28000.	29	36319	No
48	GOM_NL__2PRFIN20090209_093015_000000152076_00193_36319_1314.N1	09-FEB-2009 09:30:15	Dark	15.000	40	The Sco	1.8590	7100.0	30	36319	No
49	GOM_NL__2PRFIN20090209_093204_000000162076_00193_36319_1315.N1	09-FEB-2009 09:32:04	Dark	15.500	147	Alp Ara	2.8770	26000.	31	36319	No
50	GOM_NL__2PRFIN20090209_093454_000000202076_00193_36319_1316.N1	09-FEB-2009 09:34:54	Dark	19.500	131	Gam Lup	2.8000	26000.	39	36319	No
51	GOM_NL__2PRFIN20090209_094043_000000182076_00194_36320_1310.N1	09-FEB-2009 09:40:43	Dark	17.500	10	Bet Cen	0.61000	28000.	35	36320	No
52	GOM_NL__2PRFIN20090209_094357_000000172076_00194_36320_1311.N1	09-FEB-2009 09:43:57	Dark	16.500	12	Alp1Cru	0.77500	30000.	33	36320	No
53	GOM_NL__2PRFIN20090209_094626_000000192076_00194_36320_1312.N1	09-FEB-2009 09:46:26	Dark	18.500	99	Del Cen	2.5750	26000.	37	36320	No
54	GOM_NL__2PRFIN20090209_094922_000000152076_00194_36320_1313.N1	09-FEB-2009 09:49:22	Dark	15.000	71	Iot Car	2.2460	7700.0	30	36320	No
55	GOM_NL__2PRFIN20090209_095102_000000152076_00194_36320_1314.N1	09-FEB-2009 09:51:02	Dark	15.000	46	Del Vel	1.9540	10600.	30	36320	No
56	GOM_NL__2PRFIN20090209_095341_000000152076_00194_36320_1315.N1	09-FEB-2009 09:53:41	Straylight	14.500	65	Lam Vel	2.2040	4400.0	29	36320	No
57	GOM_NL__2PRFIN20090209_095951_000000142076_00194_36320_1316.N1	09-FEB-2009 09:59:51	Straylight	13.500	132	15Rho Pup	2.8030	6900.0	27	36320	No
58	GOM_NL__2PRFIN20090209_100822_000000152076_00194_36320_1317.N1	09-FEB-2009 10:08:22	Twilight	15.000	8	10Alp Cmi	0.40000	6500.0	30	36320	No
59	GOM_NL__2PRFIN20090209_101446_000000162076_00194_36320_1318.N1	09-FEB-2009 10:14:46	Twilight	16.000	17	78Bet Gem	1.1610	4500.0	32	36320	No
60	GOM_NL__2PRFIN20090209_103211_000000142076_00194_36320_1319.N1	09-FEB-2009 10:32:11	Twilight	13.500	49	1Alp UMi	1.9900	6300.0	27	36320	No
61	GOM_NL__2PRFIN20090209_103442_000000142076_00194_36320_1320.N1	09-FEB-2009 10:34:42	Twilight	14.000	60	7Bet UMi	2.0810	3950.0	28	36320	No
62	GOM_NL__2PRFIN20090209_104304_000000112076_00194_36320_1321.N1	09-FEB-2009 10:43:04	Straylight	10.500	130	23Bet Dra	2.7990	5800.0	21	36320	No
63	GOM_NL__2PRFIN20090209_104442_000000102076_00194_36320_1322.N1	09-FEB-2009 10:44:42	Twilight	10.000	144	18Del Cyg	2.8600	11000.	20	36320	No
64	GOM_NL__2PRFIN20090209_104702_000000102076_00194_36320_1323.N1	09-FEB-2009 10:47:02	Straylight	10.000	5	3Alp Lyr	0.033000	11000.	20	36320	No
65	GOM_NL__2PRFIN20090209_105348_000000102076_00194_36320_1324.N1	09-FEB-2009 10:53:48	Straylight	9.5000	168	17Zet Aql	2.9860	11000.	19	36320	No
66	GOM_NL__2PRFIN20090209_105540_000000122076_00194_36320_1325.N1	09-FEB-2009 10:55:40	Twilight	11.500	59	55Alp Oph	2.0800	8900.0	23	36320	No
67	GOM_NL__2PRFIN20090209_105753_000000122076_00194_36320_1326.N1	09-FEB-2009 10:57:53	Twilight	12.000	126	60Bet Oph	2.7700	4250.0	24	36320	No
68	GOM_NL__2PRFIN20090209_110449_000000162076_00194_36320_1327.N1	09-FEB-2009 11:04:49	Dark	15.500	86	35Eta Oph	2.4300	10200.	31	36320	No
69	GOM_NL__2PRFIN20090209_110627_000000142076_00194_36320_1328.N1	09-FEB-2009 11:06:27	Twilight	13.500	116	19Del Sgr	2.7000	4100.0	27	36320	No
70	GOM_NL__2PRFIN20090209_110737_000000142076_00194_36320_1329.N1	09-FEB-2009 11:07:37	Dark	13.500	38	20Eps Sgr	1.8360	11000.	27	36320	No
71	GOM_NL__2PRFIN20090209_110930_000000152076_00194_36320_1330.N1	09-FEB-2009 11:09:30	Dark	15.000	25	35Lam Sco	1.6200	28000.	30	36320	No
72	GOM_NL__2PRFIN20090209_111051_000000152076_00194_36320_1331.N1	09-FEB-2009 11:10:51	Dark	15.000	40	The Sco	1.8590	7100.0	30	36320	No
73	GOM_NL__2PRFIN20090209_111240_000000162076_00194_36320_1332.N1	09-FEB-2009 11:12:40	Dark	15.500	147	Alp Ara	2.8770	26000.	31	36320	No
74	GOM_NL__2PRFIN20090209_111530_000000202076_00194_36320_1333.N1	09-FEB-2009 11:15:30	Dark	19.500	131	Gam Lup	2.8000	26000.	39	36320	No
75	GOM_NL__2PRFIN20090209_112120_000000182076_00195_36321_1318.N1	09-FEB-2009 11:21:20	Dark	17.500	10	Bet Cen	0.61000	28000.	35	36321	No
76	GOM_NL__2PRFIN20090209_112433_000000172076_00195_36321_1319.N1	09-FEB-2009 11:24:33	Dark	16.500	12	Alp1Cru	0.77500	30000.	33	36321	No
77	GOM_NL__2PRFIN20090209_112703_000000192076_00195_36321_1320.N1	09-FEB-2009 11:27:03	Dark	18.500	99	Del Cen	2.5750	26000.	37	36321	No
78	GOM_NL__2PRFIN20090209_112958_000000152076_00195_36321_1321.N1	09-FEB-2009 11:29:58	Dark	15.000	71	Iot Car	2.2460	7700.0	30	36321	No
79	GOM_NL__2PRFIN20090209_113138_000000152076_00195_36321_1322.N1	09-FEB-2009 11:31:38	Dark	15.000	46	Del Vel	1.9540	10600.	30	36321	No
80	GOM_NL__2PRFIN20090209_113417_000000152076_00195_36321_1323.N1	09-FEB-2009 11:34:17	Straylight	15.000	65	Lam Vel	2.2040	4400.0	30	36321	No
81	GOM_NL__2PRFIN20090209_114027_000000142076_00195_36321_1324.N1	09-FEB-2009 11:40:27	Straylight	13.500	132	15Rho Pup	2.8030	6900.0	27	36321	No

3. Quality information per product

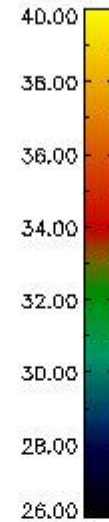
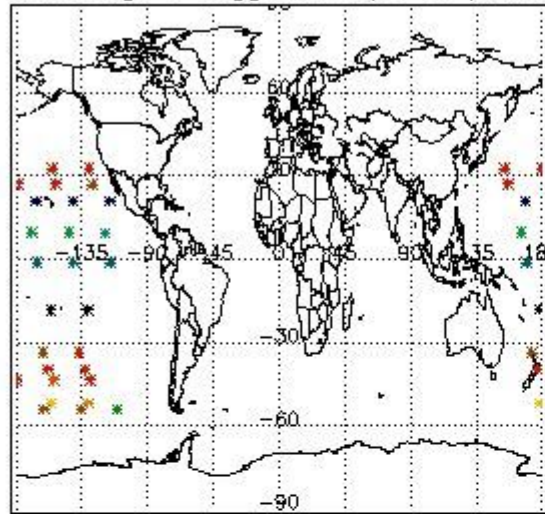
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

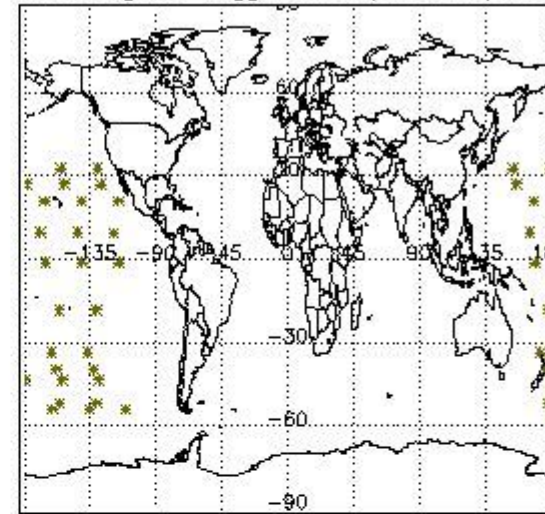


3.2 Plot quality information per product (world map)

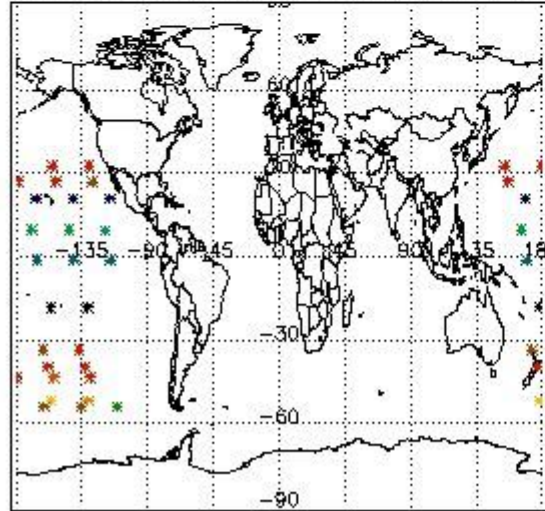
Percentage of flagged data per O3 profile



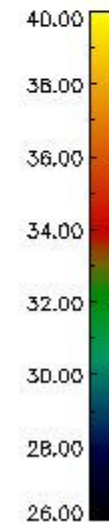
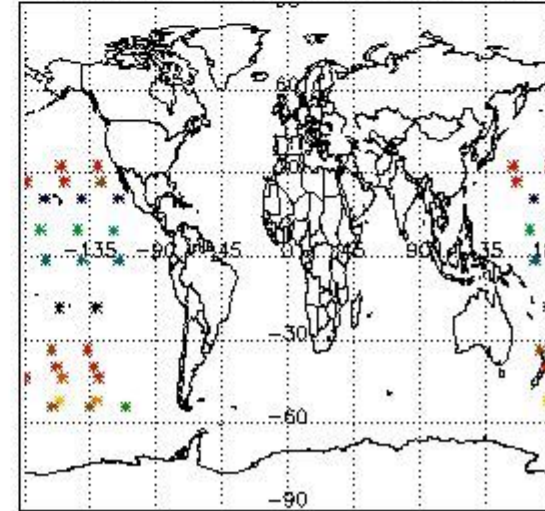
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

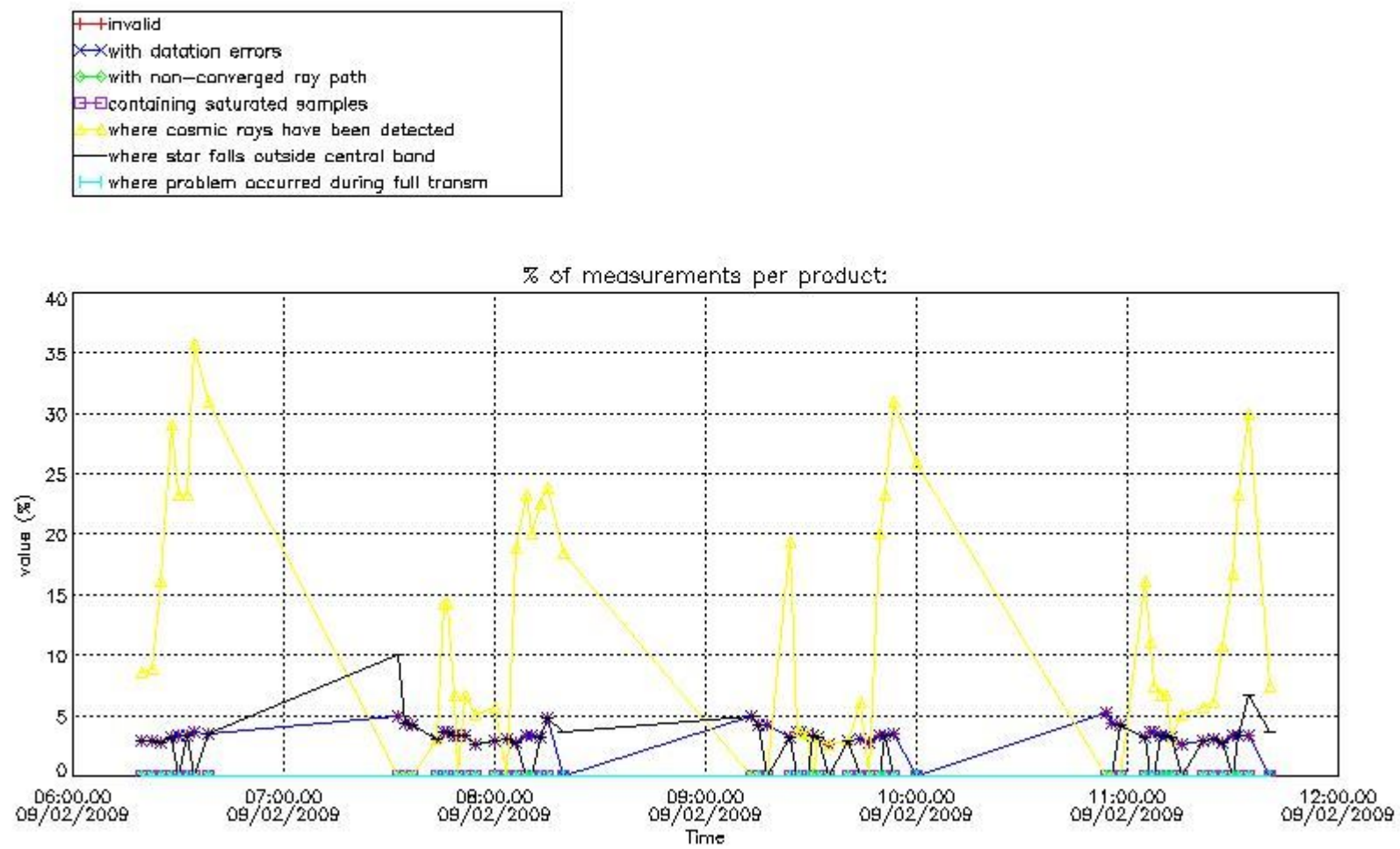


4. Level 1 quality information per product

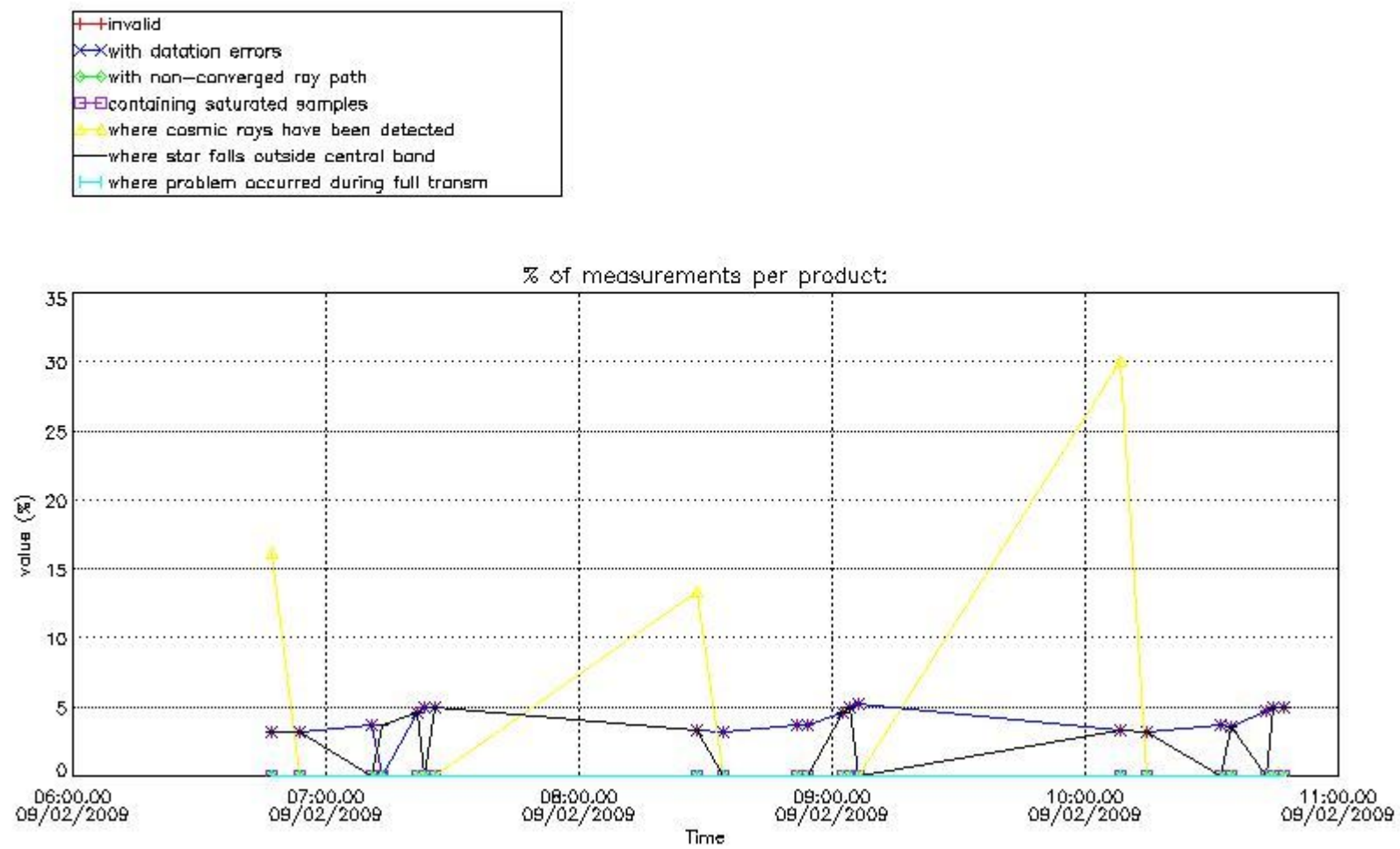
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

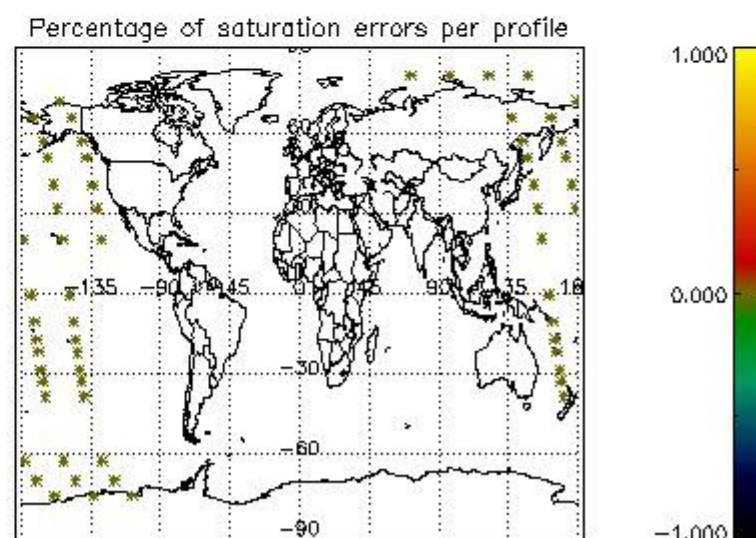
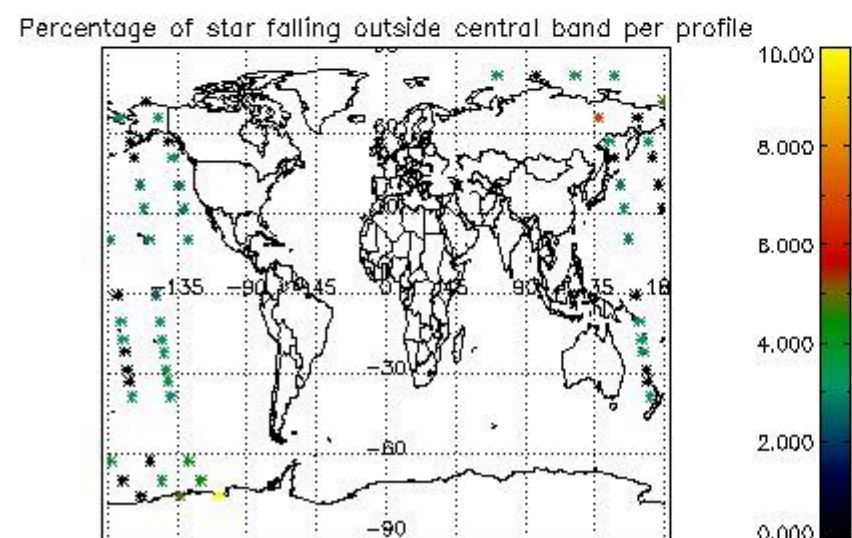
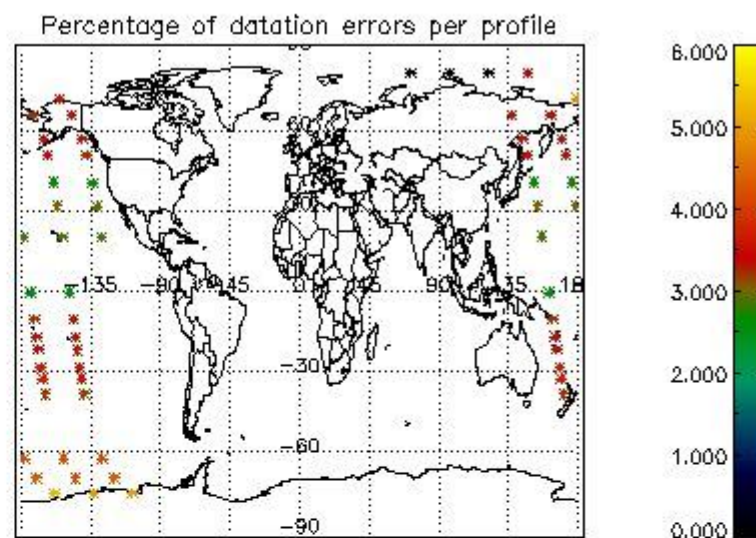
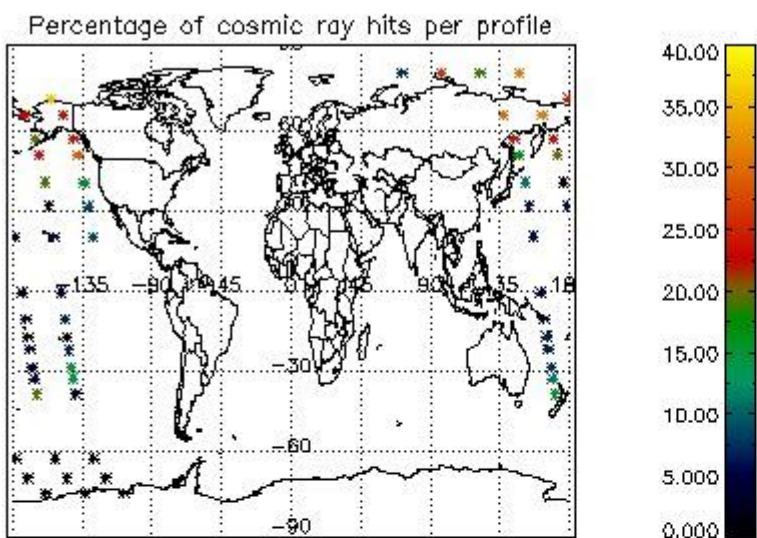


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

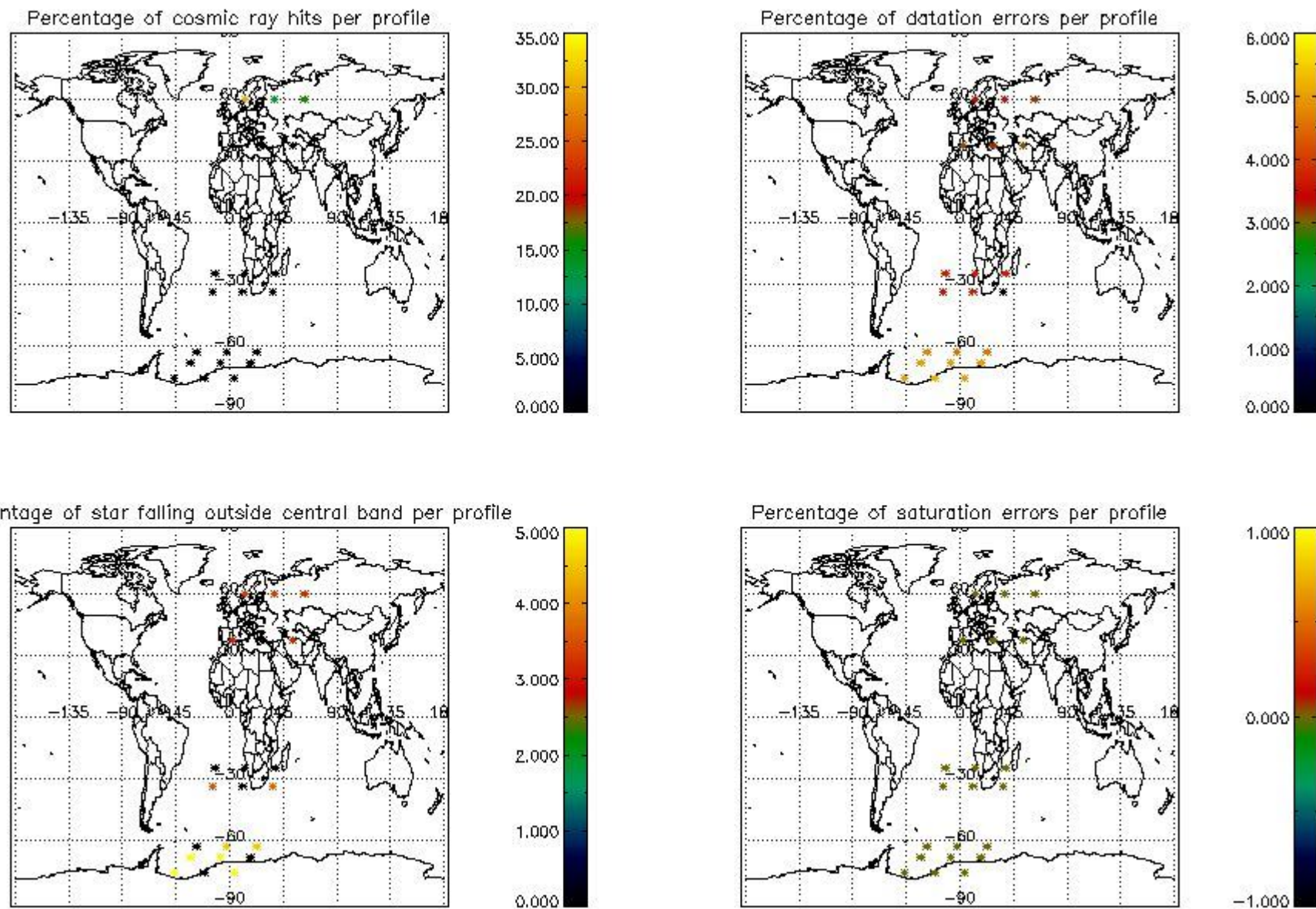


4.2 Plot quality information per product coming from level 1b processing (world map)

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

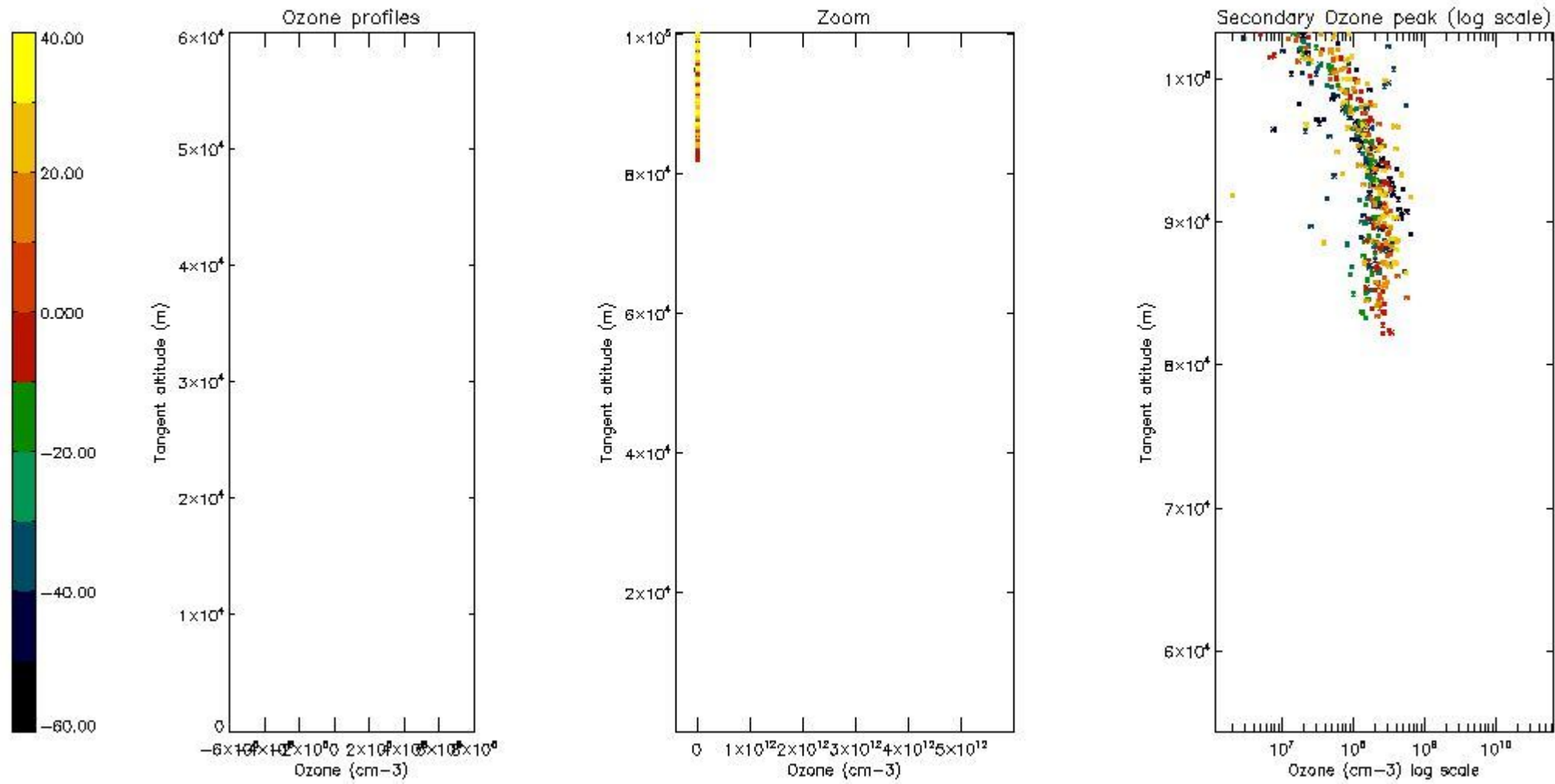
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	56
STD < 20	10

STD < 10	7
STD < 5	3

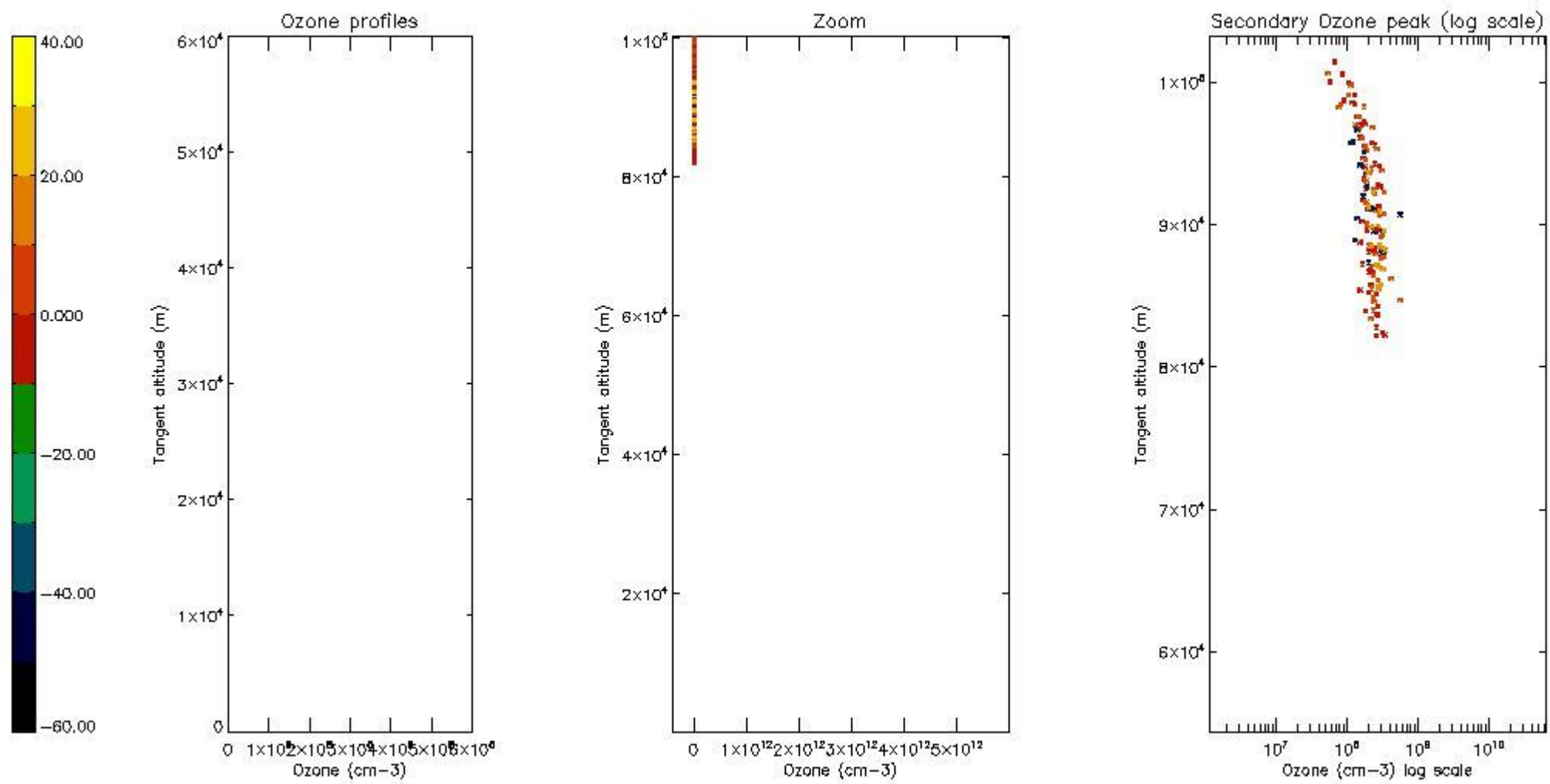
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



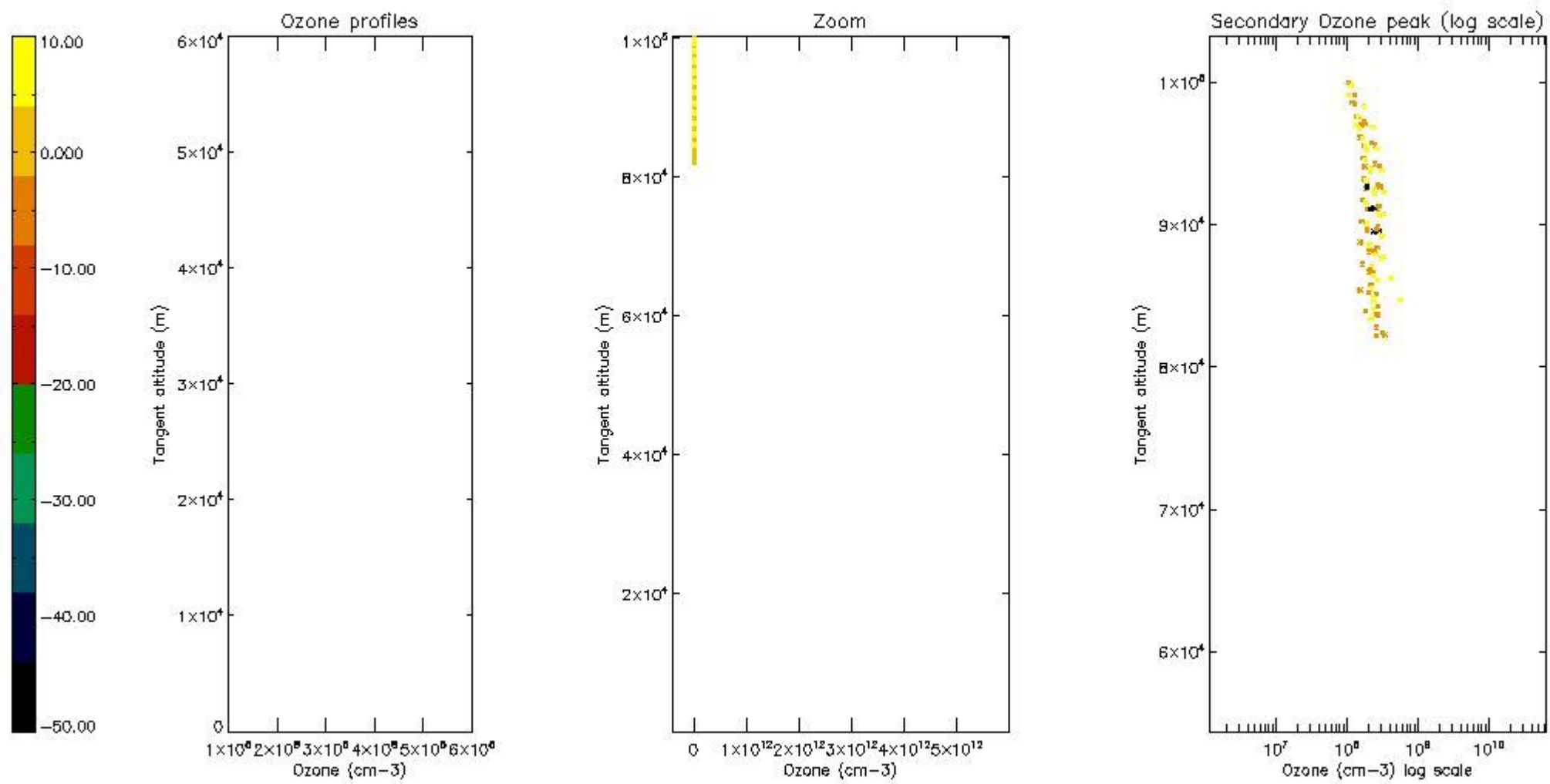
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



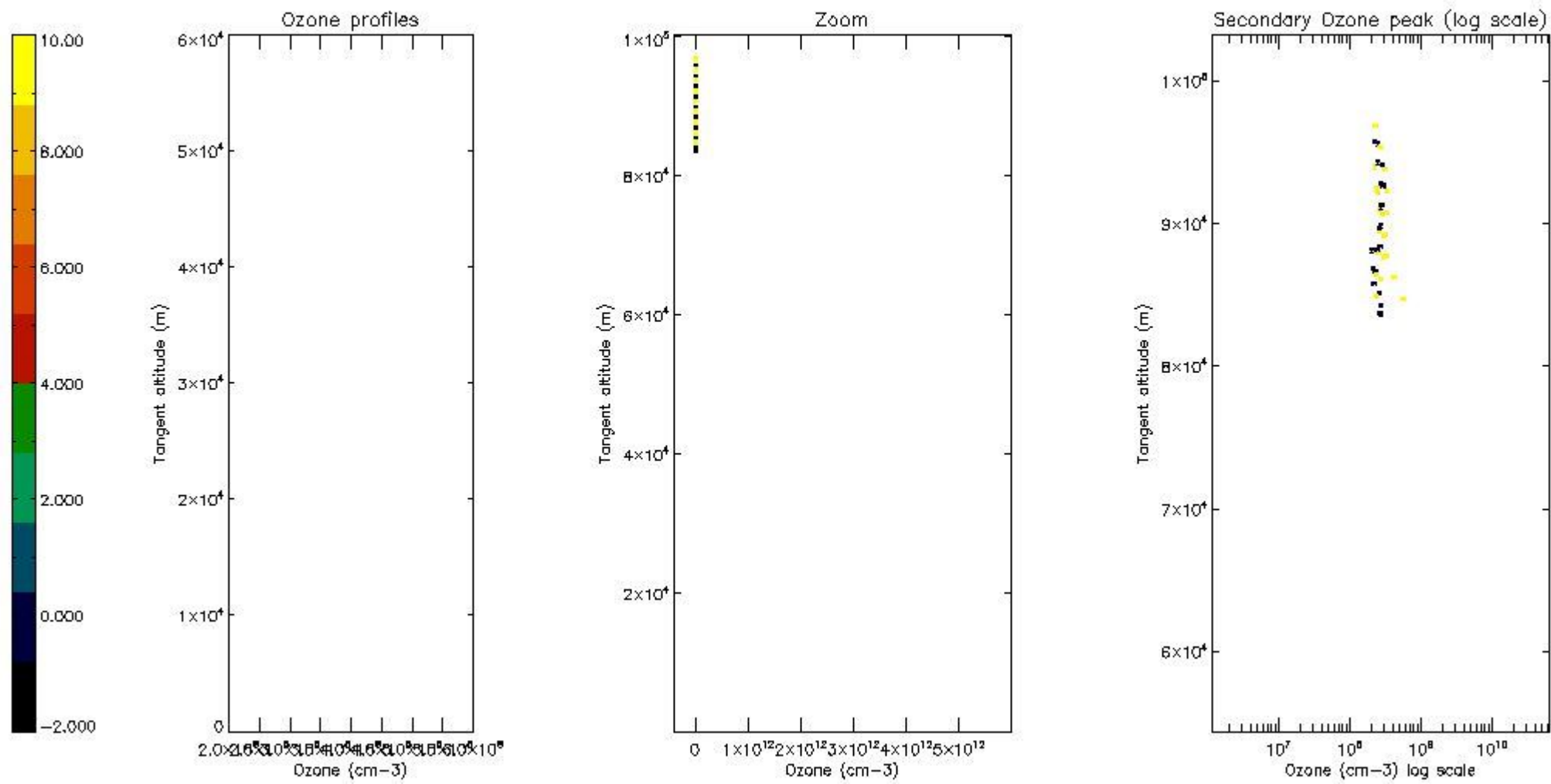
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



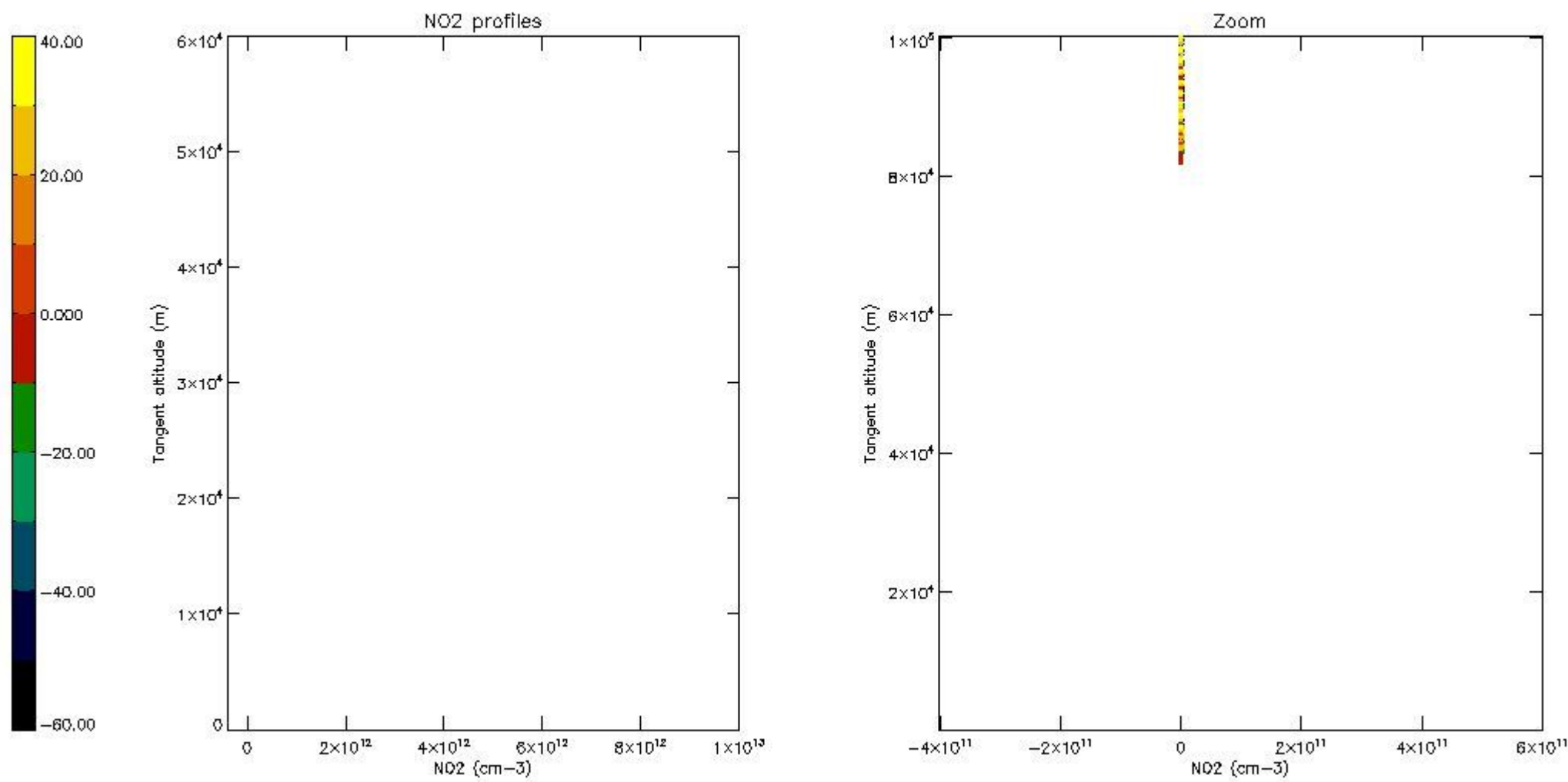
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



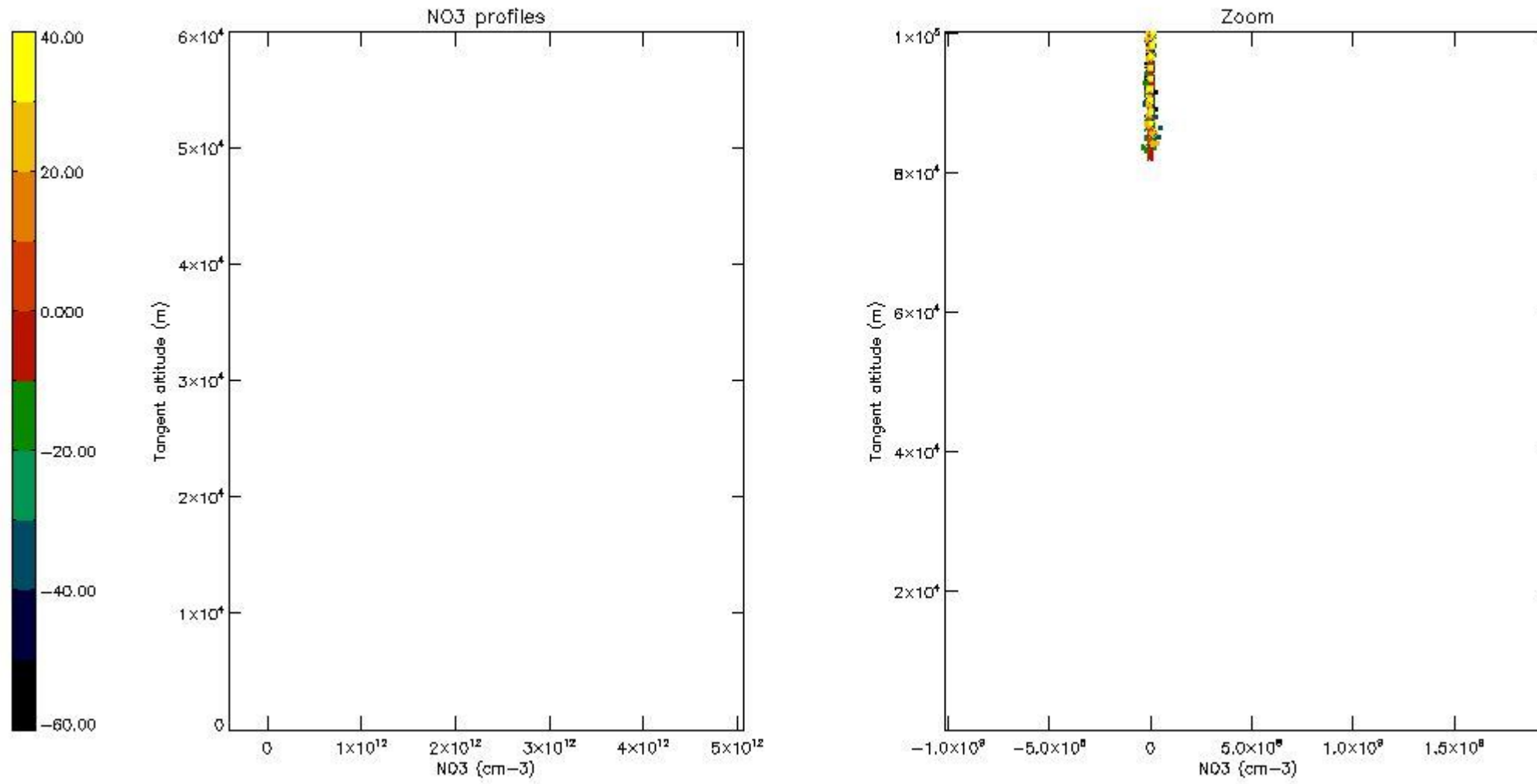
5.6 Plot NO₂ profiles for all STD (dark without errors)

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	09-FEB-2009 06:19:30
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	09-FEB-2009 06:19:30
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	09-FEB-2009 06:19:30

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	25APR2013 17:34:58
Data source version	GOMOS/6.01
Start time of products	09-02-2009 (09FEB2009 00:00:00)
Stop time of products	10-02-2009 (10FEB2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	81
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

!Warning: No products without errors in BRIGHT limb conditions found

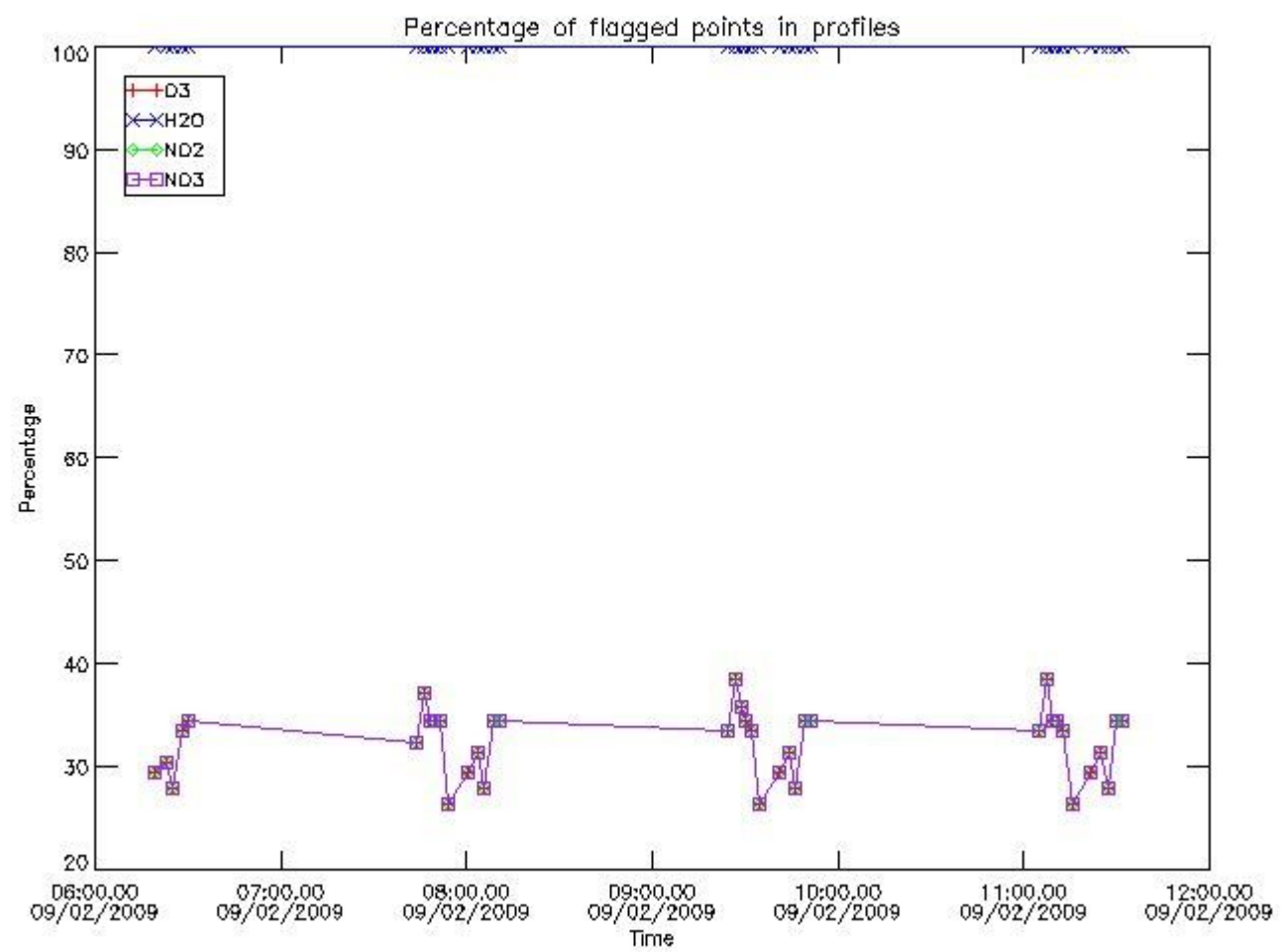
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20090209_061930_000000182076_00192_36318_1258.N1	09-FEB-2009 06:19:30	Dark	17.500	10	Bet Cen	0.61000	28000.	35	36318	No
2	GOM_NL__2PRFIN20090209_062244_000000172076_00192_36318_1259.N1	09-FEB-2009 06:22:44	Dark	17.000	12	Alp1Cru	0.77500	30000.	34	36318	No
3	GOM_NL__2PRFIN20090209_062513_000000192076_00192_36318_1260.N1	09-FEB-2009 06:25:13	Dark	18.500	99	Del Cen	2.5750	26000.	37	36318	No
4	GOM_NL__2PRFIN20090209_062809_000000162076_00192_36318_1261.N1	09-FEB-2009 06:28:09	Dark	15.500	71	Iot Car	2.2460	7700.0	31	36318	No
5	GOM_NL__2PRFIN20090209_062950_000000152076_00192_36318_1262.N1	09-FEB-2009 06:29:50	Dark	15.000	46	Del Vel	1.9540	10600.	30	36318	No
6	GOM_NL__2PRFIN20090209_063229_000000152076_00192_36318_1263.N1	09-FEB-2009 06:32:29	Straylight	15.000	65	Lam Vel	2.2040	4400.0	30	36318	No
7	GOM_NL__2PRFIN20090209_063421_000000142076_00192_36318_1264.N1	09-FEB-2009 06:34:21	Straylight	14.000	70	Zet Pup	2.2460	39000.	28	36318	No
8	GOM_NL__2PRFIN20090209_063839_000000152076_00192_36318_1265.N1	09-FEB-2009 06:38:39	Straylight	14.500	132	15Rho Pup	2.8030	6900.0	29	36318	No
9	GOM_NL__2PRFIN20090209_064710_000000162076_00192_36318_1266.N1	09-FEB-2009 06:47:10	Twilight	15.500	8	10Alp CMi	0.40000	6500.0	31	36318	No
10	GOM_NL__2PRFIN20090209_065334_000000162076_00192_36318_1267.N1	09-FEB-2009 06:53:34	Twilight	16.000	17	78Bet Gem	1.1610	4500.0	32	36318	No
11	GOM_NL__2PRFIN20090209_071059_000000142076_00192_36318_1268.N1	09-FEB-2009 07:10:59	Twilight	13.500	49	1Alp UMi	1.9900	6300.0	27	36318	No
12	GOM_NL__2PRFIN20090209_071331_000000142076_00192_36318_1269.N1	09-FEB-2009 07:13:31	Twilight	13.500	60	7Bet UMi	2.0810	3950.0	27	36318	No
13	GOM_NL__2PRFIN20090209_072152_000000112076_00192_36318_1270.N1	09-FEB-2009 07:21:52	Twilight	11.000	130	23Bet Dra	2.7990	5800.0	22	36318	No
14	GOM_NL__2PRFIN20090209_072329_000000102076_00192_36318_1271.N1	09-FEB-2009 07:23:29	Straylight	10.000	144	18Del Cyg	2.8600	11000.	20	36318	No
15	GOM_NL__2PRFIN20090209_072550_000000102076_00192_36318_1272.N1	09-FEB-2009 07:25:50	Straylight	10.000	5	3Alp Lyr	0.033000	11000.	20	36318	No
16	GOM_NL__2PRFIN20090209_073236_000000102076_00192_36318_1273.N1	09-FEB-2009 07:32:36	Twilight	10.000	168	17Zet Aql	2.9860	11000.	20	36318	No
17	GOM_NL__2PRFIN20090209_073428_000000122076_00192_36318_1274.N1	09-FEB-2009 07:34:28	Twilight	11.500	59	55Alp Oph	2.0800	8900.0	23	36318	No
18	GOM_NL__2PRFIN20090209_073640_000000122076_00192_36318_1275.N1	09-FEB-2009 07:36:40	Twilight	12.000	126	60Bet Oph	2.7700	4250.0	24	36318	No
19	GOM_NL__2PRFIN20090209_074336_000000162076_00192_36318_1276.N1	09-FEB-2009 07:43:36	Dark	16.000	86	35Eta Oph	2.4300	10200.	32	36318	No
20	GOM_NL__2PRFIN20090209_074515_000000142076_00192_36318_1277.N1	09-FEB-2009 07:45:15	Twilight	14.000	116	19Del Sgr	2.7000	4100.0	28	36318	No
21	GOM_NL__2PRFIN20090209_074625_000000142076_00192_36318_1278.N1	09-FEB-2009 07:46:25	Dark	14.000	38	20Eps Sgr	1.8360	11000.	28	36318	No
22	GOM_NL__2PRFIN20090209_074817_000000152076_00192_36318_1279.N1	09-FEB-2009 07:48:17	Dark	15.000	25	35Lam Sco	1.6200	28000.	30	36318	No
23	GOM_NL__2PRFIN20090209_074939_000000152076_00192_36318_1280.N1	09-FEB-2009 07:49:39	Dark	15.000	40	The Sco	1.8590	7100.0	30	36318	No
24	GOM_NL__2PRFIN20090209_075128_000000152076_00192_36318_1281.N1	09-FEB-2009 07:51:28	Dark	15.000	147	Alp Ara	2.8770	26000.	30	36318	No
25	GOM_NL__2PRFIN20090209_075417_000000202076_00192_36318_1282.N1	09-FEB-2009 07:54:17	Dark	19.500	131	Gam Lup	2.8000	26000.	39	36318	No
26	GOM_NL__2PRFIN20090209_080007_000000182076_00193_36319_1292.N1	09-FEB-2009 08:00:07	Dark	17.500	10	Bet Cen	0.61000	28000.	35	36319	No
27	GOM_NL__2PRFIN20090209_080321_000000172076_00193_36319_1293.N1	09-FEB-2009 08:03:21	Dark	16.500	12	Alp1Cru	0.77500	30000.	33	36319	No
28	GOM_NL__2PRFIN20090209_080549_000000192076_00193_36319_1294.N1	09-FEB-2009 08:05:49	Dark	18.500	99	Del Cen	2.5750	26000.	37	36319	No
29	GOM_NL__2PRFIN20090209_080846_000000152076_00193_36319_1295.N1	09-FEB-2009 08:08:46	Dark	15.000	71	Iot Car	2.2460	7700.0	30	36319	No
30	GOM_NL__2PRFIN20090209_081026_000000152076_00193_36319_1296.N1	09-FEB-2009 08:10:26	Dark	15.000	46	Del Vel	1.9540	10600.	30	36319	No
31	GOM_NL__2PRFIN20090209_081305_000000162076_00193_36319_1297.N1	09-FEB-2009 08:13:05	Straylight	15.500	65	Lam Vel	2.2040	4400.0	31	36319	No
32	GOM_NL__2PRFIN20090209_081501_000000112076_00193_36319_1298.N1	09-FEB-2009 08:15:01	Straylight	10.500	70	Zet Pup	2.2460	39000.	21	36319	No
33	GOM_NL__2PRFIN20090209_081915_000000142076_00193_36319_1299.N1	09-FEB-2009 08:19:15	Straylight	13.500	132	15Rho Pup	2.8030	6900.0	27	36319	No
34	GOM_NL__2PRFIN20090209_082746_000000152076_00193_36319_1300.N1	09-FEB-2009 08:27:46	Twilight	15.000	8	10Alp CMi	0.40000	6500.0	30	36319	No
35	GOM_NL__2PRFIN20090209_083410_000000162076_00193_36319_1301.N1	09-FEB-2009 08:34:10	Twilight	15.500	17	78Bet Gem	1.1610	4500.0	31	36319	No
36	GOM_NL__2PRFIN20090209_085135_000000142076_00193_36319_1302.N1	09-FEB-2009 08:51:35	Twilight	13.500	49	1Alp UMi	1.9900	6300.0	27	36319	No
37	GOM_NL__2PRFIN20090209_085407_000000142076_00193_36319_1303.N1	09-FEB-2009 08:54:07	Twilight	13.500	60	7Bet UMi	2.0810	3950.0	27	36319	No
38	GOM_NL__2PRFIN20090209_090228_000000112076_00193_36319_1304.N1	09-FEB-2009 09:02:28	Twilight	11.000	130	23Bet Dra	2.7990	5800.0	22	36319	No
39	GOM_NL__2PRFIN20090209_090405_000000102076_00193_36319_1305.N1	09-FEB-2009 09:04:05	Straylight	10.000	144	18Del Cyg	2.8600	11000.	20	36319	No
40	GOM_NL__2PRFIN20090209_090626_000000102076_00193_36319_1306.N1	09-FEB-2009 09:06:26	Straylight	9.5000	5	3Alp Lyr	0.033000	11000.	19	36319	No
41	GOM_NL__2PRFIN20090209_091312_000000102076_00193_36319_1307.N1	09-FEB-2009 09:13:12	Twilight	10.000	168	17Zet Aql	2.9860	11000.	20	36319	No

42	GOM_NL__2PRFIN20090209_091504_000000122076_00193_36319_1308.N1	09-FEB-2009 09:15:04	Twilight	12.000	59	55Alp Oph	2.0800	8900.0	24	36319	No
43	GOM_NL__2PRFIN20090209_091716_000000122076_00193_36319_1309.N1	09-FEB-2009 09:17:16	Twilight	12.000	126	60Bet Oph	2.7700	4250.0	24	36319	No
44	GOM_NL__2PRFIN20090209_092413_000000162076_00193_36319_1310.N1	09-FEB-2009 09:24:13	Dark	15.500	86	35Eta Oph	2.4300	10200.	31	36319	No
45	GOM_NL__2PRFIN20090209_092551_000000142076_00193_36319_1311.N1	09-FEB-2009 09:25:51	Twilight	13.500	116	19Del Sgr	2.7000	4100.0	27	36319	No
46	GOM_NL__2PRFIN20090209_092701_000000142076_00193_36319_1312.N1	09-FEB-2009 09:27:01	Dark	13.500	38	20Eps Sgr	1.8360	11000.	27	36319	No
47	GOM_NL__2PRFIN20090209_092854_000000152076_00193_36319_1313.N1	09-FEB-2009 09:28:54	Dark	14.500	25	35Lam Sco	1.6200	28000.	29	36319	No
48	GOM_NL__2PRFIN20090209_093015_000000152076_00193_36319_1314.N1	09-FEB-2009 09:30:15	Dark	15.000	40	The Sco	1.8590	7100.0	30	36319	No
49	GOM_NL__2PRFIN20090209_093204_000000162076_00193_36319_1315.N1	09-FEB-2009 09:32:04	Dark	15.500	147	Alp Ara	2.8770	26000.	31	36319	No
50	GOM_NL__2PRFIN20090209_093454_000000202076_00193_36319_1316.N1	09-FEB-2009 09:34:54	Dark	19.500	131	Gam Lup	2.8000	26000.	39	36319	No
51	GOM_NL__2PRFIN20090209_094043_000000182076_00194_36320_1310.N1	09-FEB-2009 09:40:43	Dark	17.500	10	Bet Cen	0.61000	28000.	35	36320	No
52	GOM_NL__2PRFIN20090209_094357_000000172076_00194_36320_1311.N1	09-FEB-2009 09:43:57	Dark	16.500	12	Alp1Cru	0.77500	30000.	33	36320	No
53	GOM_NL__2PRFIN20090209_094626_000000192076_00194_36320_1312.N1	09-FEB-2009 09:46:26	Dark	18.500	99	Del Cen	2.5750	26000.	37	36320	No
54	GOM_NL__2PRFIN20090209_094922_000000152076_00194_36320_1313.N1	09-FEB-2009 09:49:22	Dark	15.000	71	Iot Car	2.2460	7700.0	30	36320	No
55	GOM_NL__2PRFIN20090209_095102_000000152076_00194_36320_1314.N1	09-FEB-2009 09:51:02	Dark	15.000	46	Del Vel	1.9540	10600.	30	36320	No
56	GOM_NL__2PRFIN20090209_095341_000000152076_00194_36320_1315.N1	09-FEB-2009 09:53:41	Straylight	14.500	65	Lam Vel	2.2040	4400.0	29	36320	No
57	GOM_NL__2PRFIN20090209_095951_000000142076_00194_36320_1316.N1	09-FEB-2009 09:59:51	Straylight	13.500	132	15Rho Pup	2.8030	6900.0	27	36320	No
58	GOM_NL__2PRFIN20090209_100822_000000152076_00194_36320_1317.N1	09-FEB-2009 10:08:22	Twilight	15.000	8	10Alp Cmi	0.40000	6500.0	30	36320	No
59	GOM_NL__2PRFIN20090209_101446_000000162076_00194_36320_1318.N1	09-FEB-2009 10:14:46	Twilight	16.000	17	78Bet Gem	1.1610	4500.0	32	36320	No
60	GOM_NL__2PRFIN20090209_103211_000000142076_00194_36320_1319.N1	09-FEB-2009 10:32:11	Twilight	13.500	49	1Alp UMi	1.9900	6300.0	27	36320	No
61	GOM_NL__2PRFIN20090209_103442_000000142076_00194_36320_1320.N1	09-FEB-2009 10:34:42	Twilight	14.000	60	7Bet UMi	2.0810	3950.0	28	36320	No
62	GOM_NL__2PRFIN20090209_104304_000000112076_00194_36320_1321.N1	09-FEB-2009 10:43:04	Straylight	10.500	130	23Bet Dra	2.7990	5800.0	21	36320	No
63	GOM_NL__2PRFIN20090209_104442_000000102076_00194_36320_1322.N1	09-FEB-2009 10:44:42	Twilight	10.000	144	18Del Cyg	2.8600	11000.	20	36320	No
64	GOM_NL__2PRFIN20090209_104702_000000102076_00194_36320_1323.N1	09-FEB-2009 10:47:02	Straylight	10.000	5	3Alp Lyr	0.033000	11000.	20	36320	No
65	GOM_NL__2PRFIN20090209_105348_000000102076_00194_36320_1324.N1	09-FEB-2009 10:53:48	Straylight	9.5000	168	17Zet Aql	2.9860	11000.	19	36320	No
66	GOM_NL__2PRFIN20090209_105540_000000122076_00194_36320_1325.N1	09-FEB-2009 10:55:40	Twilight	11.500	59	55Alp Oph	2.0800	8900.0	23	36320	No
67	GOM_NL__2PRFIN20090209_105753_000000122076_00194_36320_1326.N1	09-FEB-2009 10:57:53	Twilight	12.000	126	60Bet Oph	2.7700	4250.0	24	36320	No
68	GOM_NL__2PRFIN20090209_110449_000000162076_00194_36320_1327.N1	09-FEB-2009 11:04:49	Dark	15.500	86	35Eta Oph	2.4300	10200.	31	36320	No
69	GOM_NL__2PRFIN20090209_110627_000000142076_00194_36320_1328.N1	09-FEB-2009 11:06:27	Twilight	13.500	116	19Del Sgr	2.7000	4100.0	27	36320	No
70	GOM_NL__2PRFIN20090209_110737_000000142076_00194_36320_1329.N1	09-FEB-2009 11:07:37	Dark	13.500	38	20Eps Sgr	1.8360	11000.	27	36320	No
71	GOM_NL__2PRFIN20090209_110930_000000152076_00194_36320_1330.N1	09-FEB-2009 11:09:30	Dark	15.000	25	35Lam Sco	1.6200	28000.	30	36320	No
72	GOM_NL__2PRFIN20090209_111051_000000152076_00194_36320_1331.N1	09-FEB-2009 11:10:51	Dark	15.000	40	The Sco	1.8590	7100.0	30	36320	No
73	GOM_NL__2PRFIN20090209_111240_000000162076_00194_36320_1332.N1	09-FEB-2009 11:12:40	Dark	15.500	147	Alp Ara	2.8770	26000.	31	36320	No
74	GOM_NL__2PRFIN20090209_111530_000000202076_00194_36320_1333.N1	09-FEB-2009 11:15:30	Dark	19.500	131	Gam Lup	2.8000	26000.	39	36320	No
75	GOM_NL__2PRFIN20090209_112120_000000182076_00195_36321_1318.N1	09-FEB-2009 11:21:20	Dark	17.500	10	Bet Cen	0.61000	28000.	35	36321	No
76	GOM_NL__2PRFIN20090209_112433_000000172076_00195_36321_1319.N1	09-FEB-2009 11:24:33	Dark	16.500	12	Alp1Cru	0.77500	30000.	33	36321	No
77	GOM_NL__2PRFIN20090209_112703_000000192076_00195_36321_1320.N1	09-FEB-2009 11:27:03	Dark	18.500	99	Del Cen	2.5750	26000.	37	36321	No
78	GOM_NL__2PRFIN20090209_112958_000000152076_00195_36321_1321.N1	09-FEB-2009 11:29:58	Dark	15.000	71	Iot Car	2.2460	7700.0	30	36321	No
79	GOM_NL__2PRFIN20090209_113138_000000152076_00195_36321_1322.N1	09-FEB-2009 11:31:38	Dark	15.000	46	Del Vel	1.9540	10600.	30	36321	No
80	GOM_NL__2PRFIN20090209_113417_000000152076_00195_36321_1323.N1	09-FEB-2009 11:34:17	Straylight	15.000	65	Lam Vel	2.2040	4400.0	30	36321	No
81	GOM_NL__2PRFIN20090209_114027_000000142076_00195_36321_1324.N1	09-FEB-2009 11:40:27	Straylight	13.500	132	15Rho Pup	2.8030	6900.0	27	36321	No

3. Quality information per product

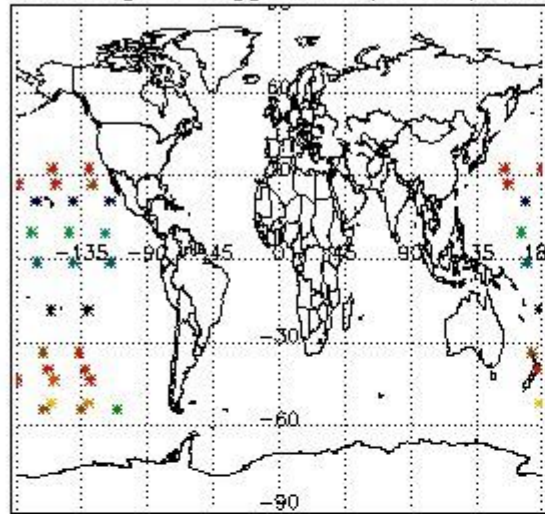
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

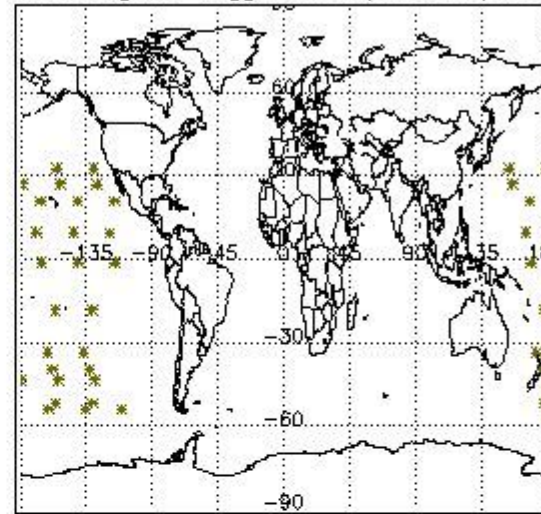


3.2 Plot quality information per product (world map)

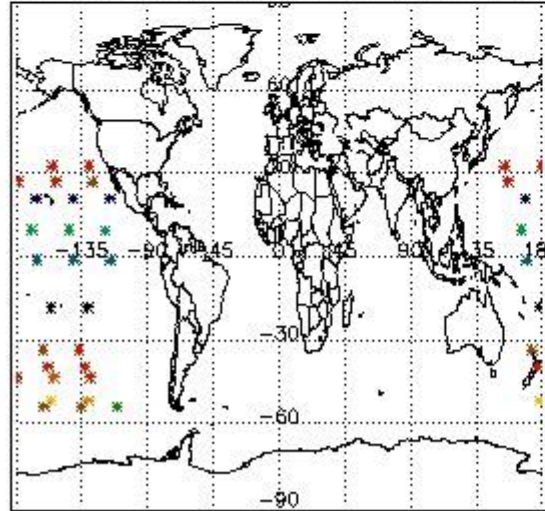
Percentage of flagged data per O3 profile



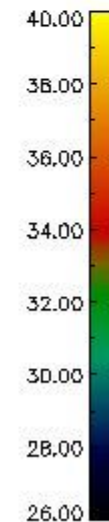
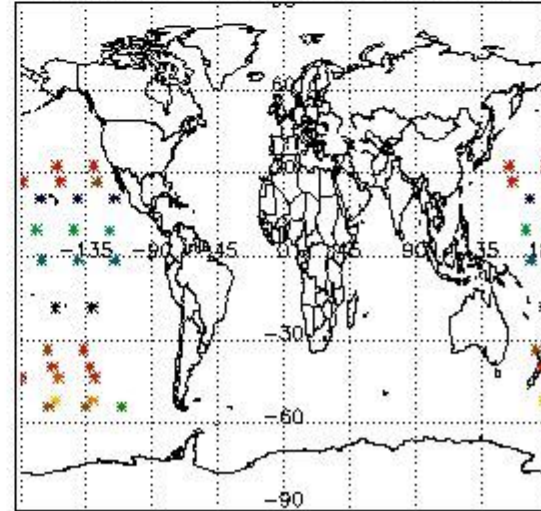
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

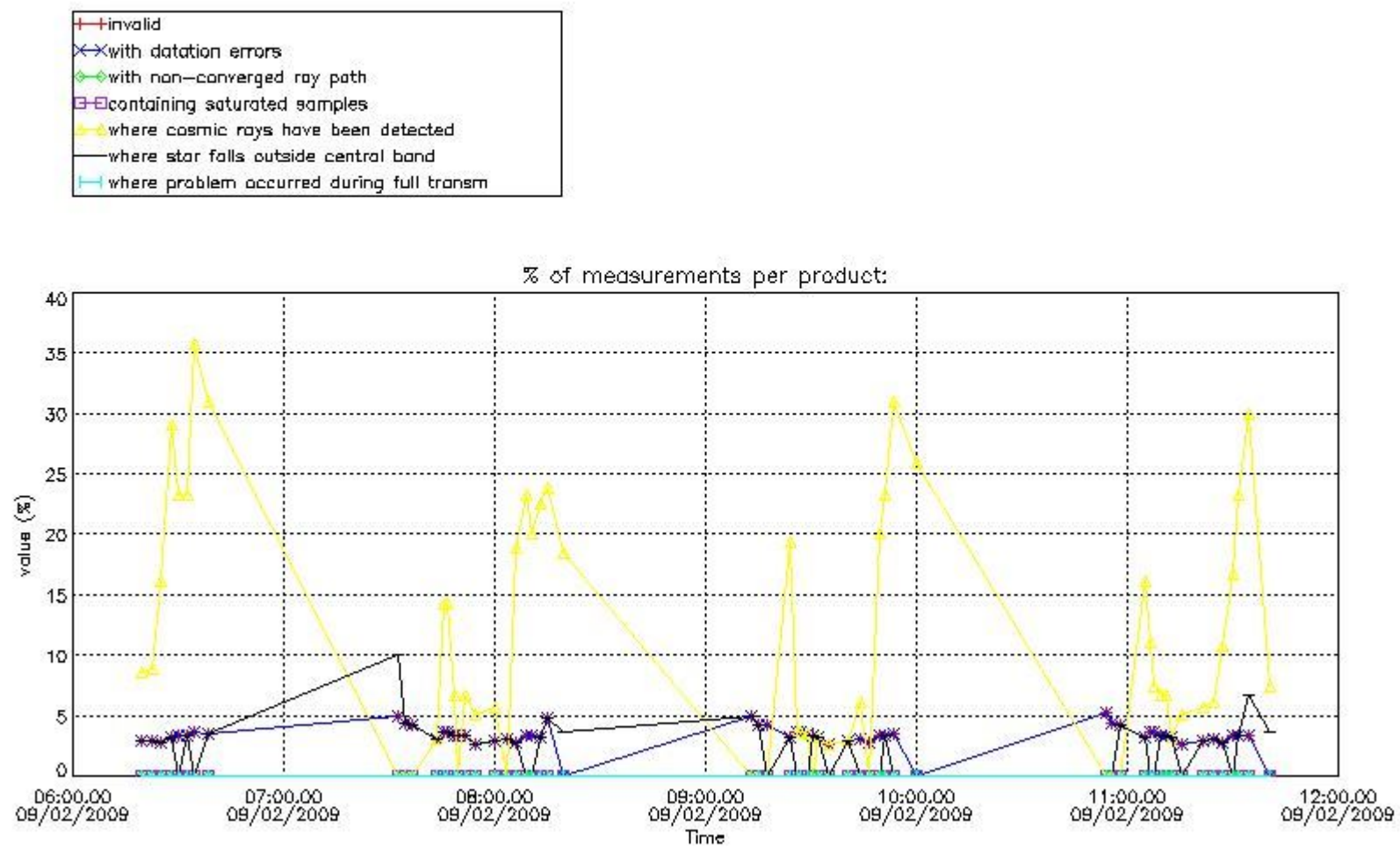


4. Level 1 quality information per product

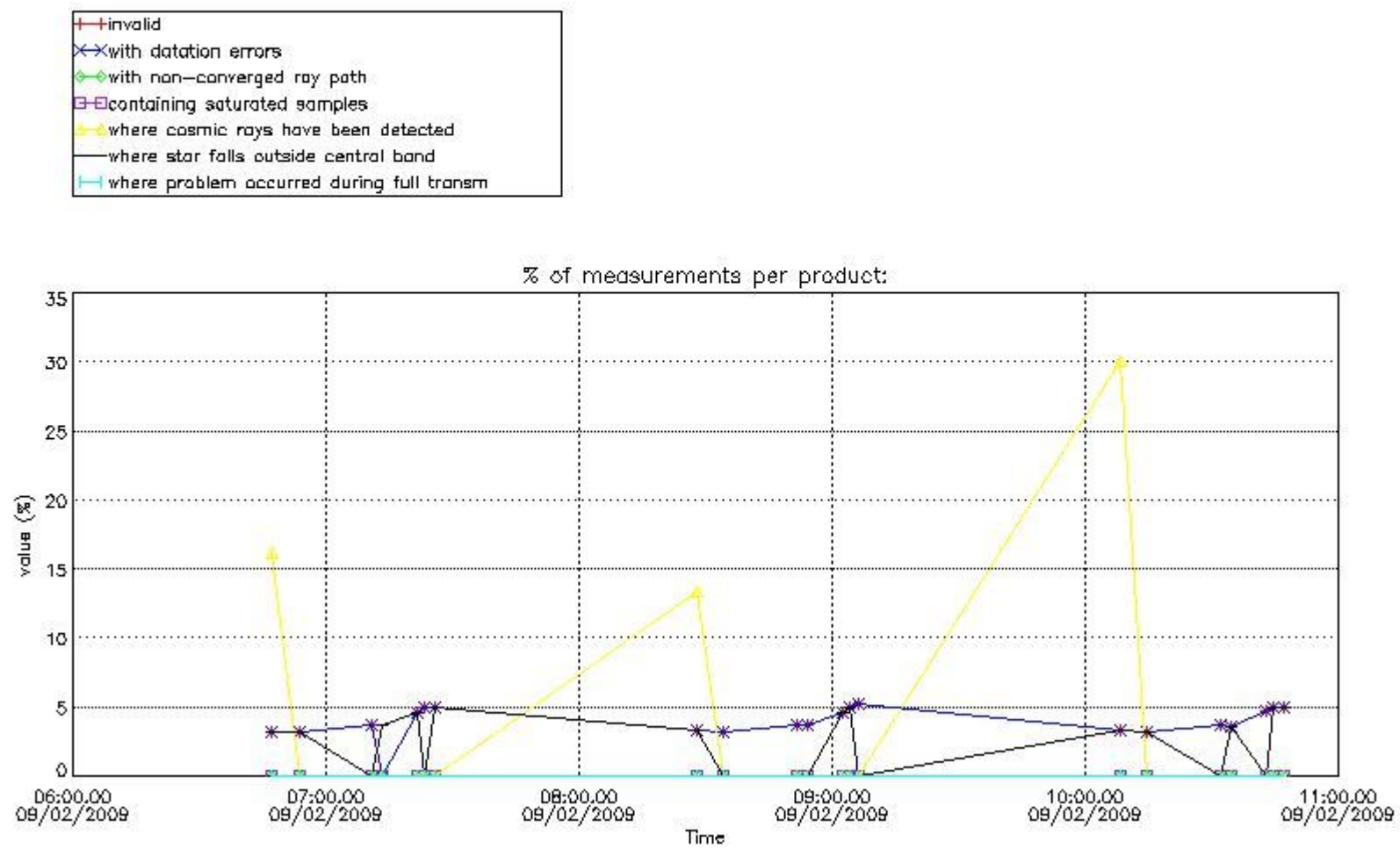
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

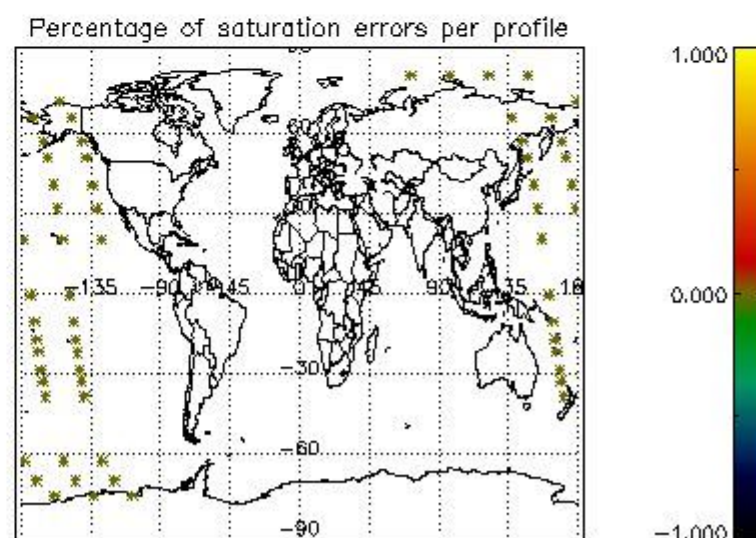
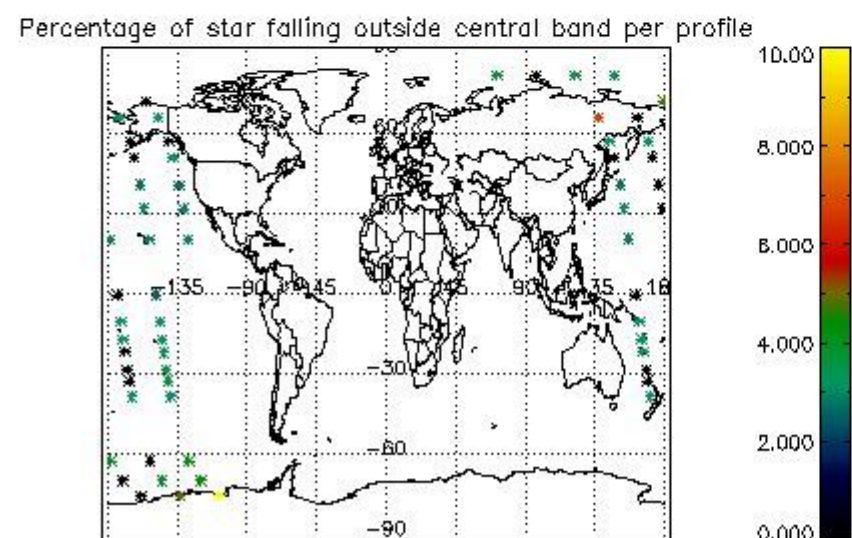
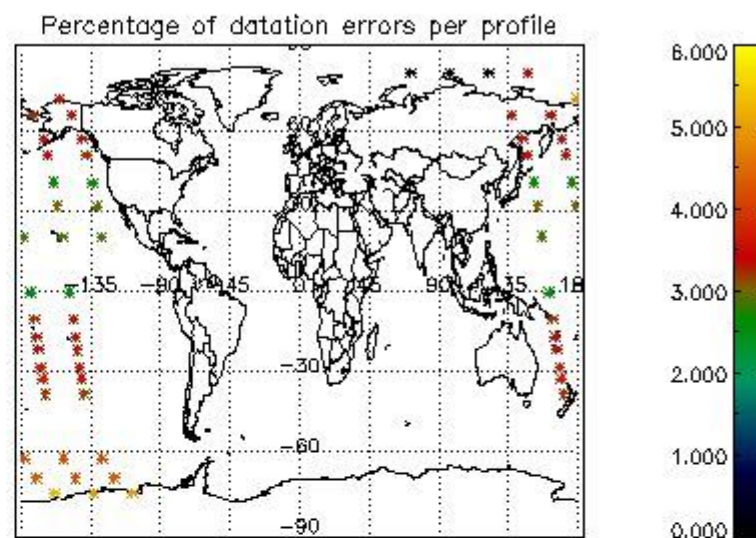
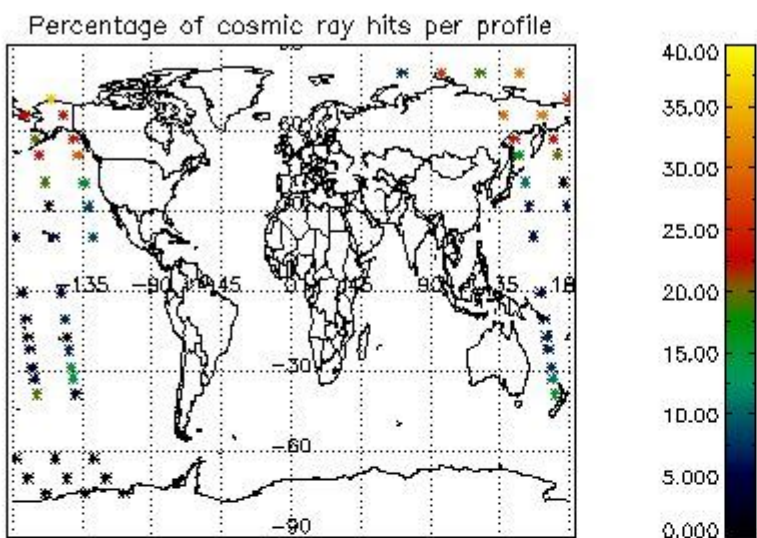


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

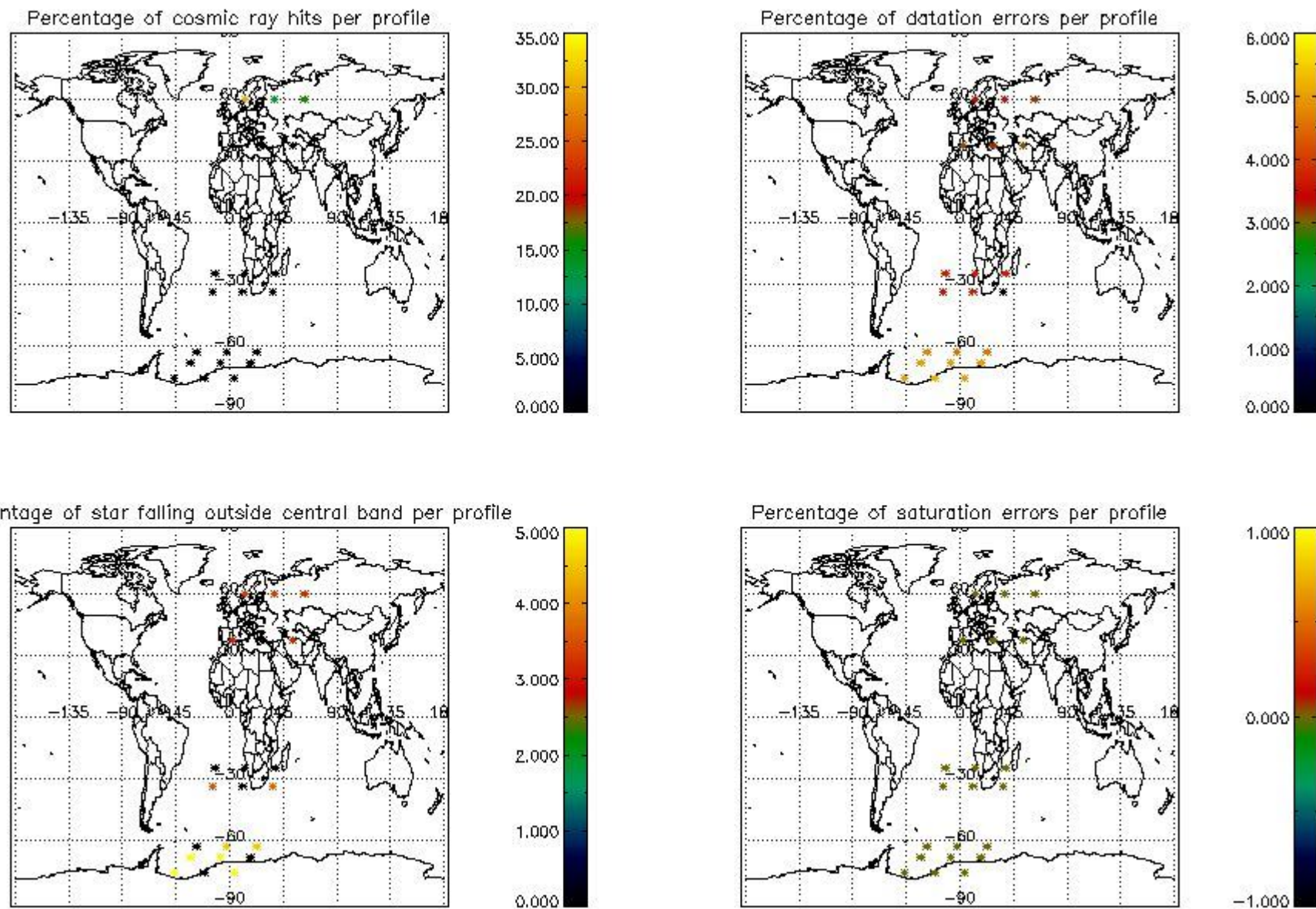


4.2 Plot quality information per product coming from level 1b processing (world map)

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

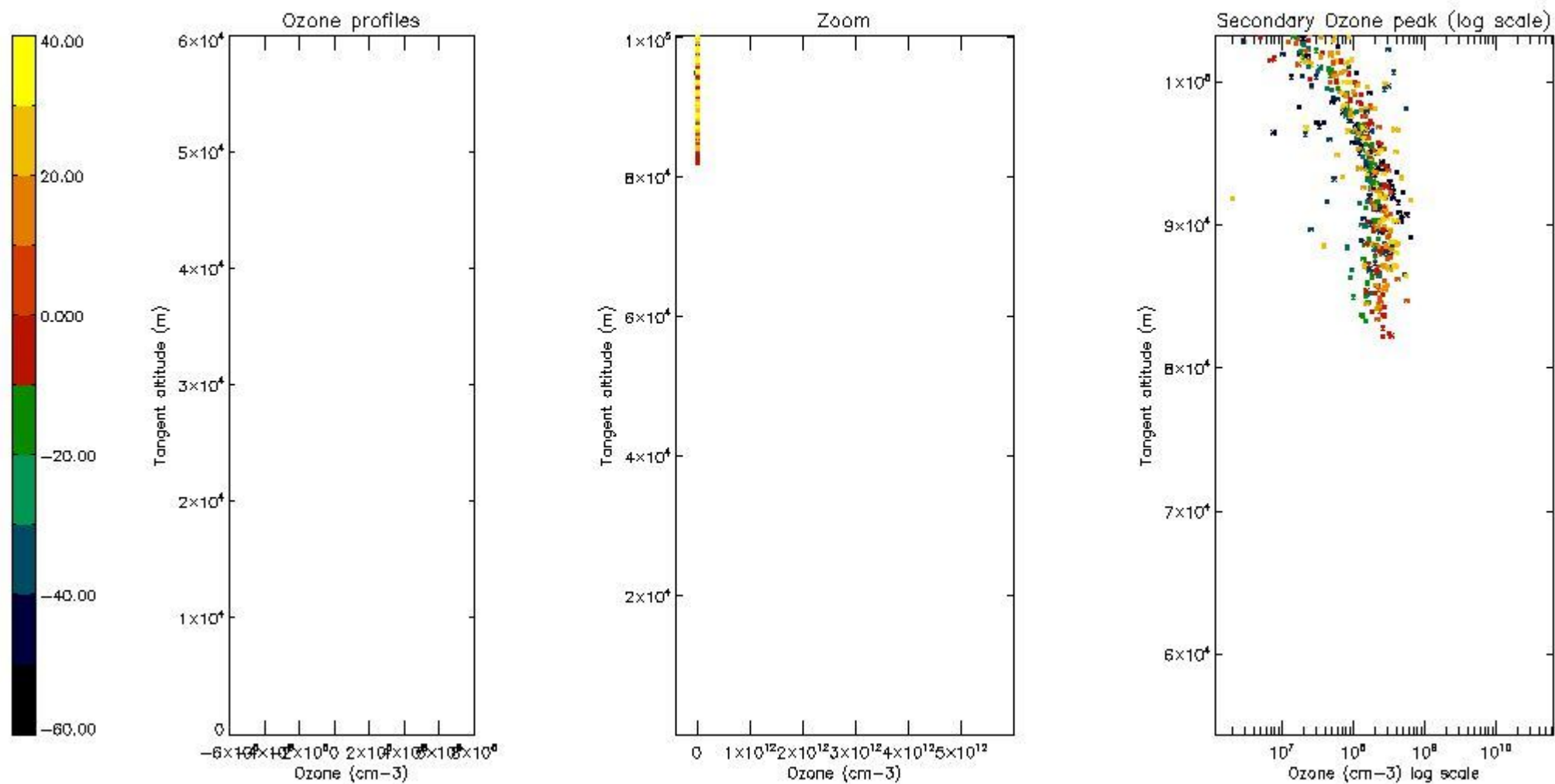
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	56
STD < 20	10

STD < 10	7
STD < 5	3

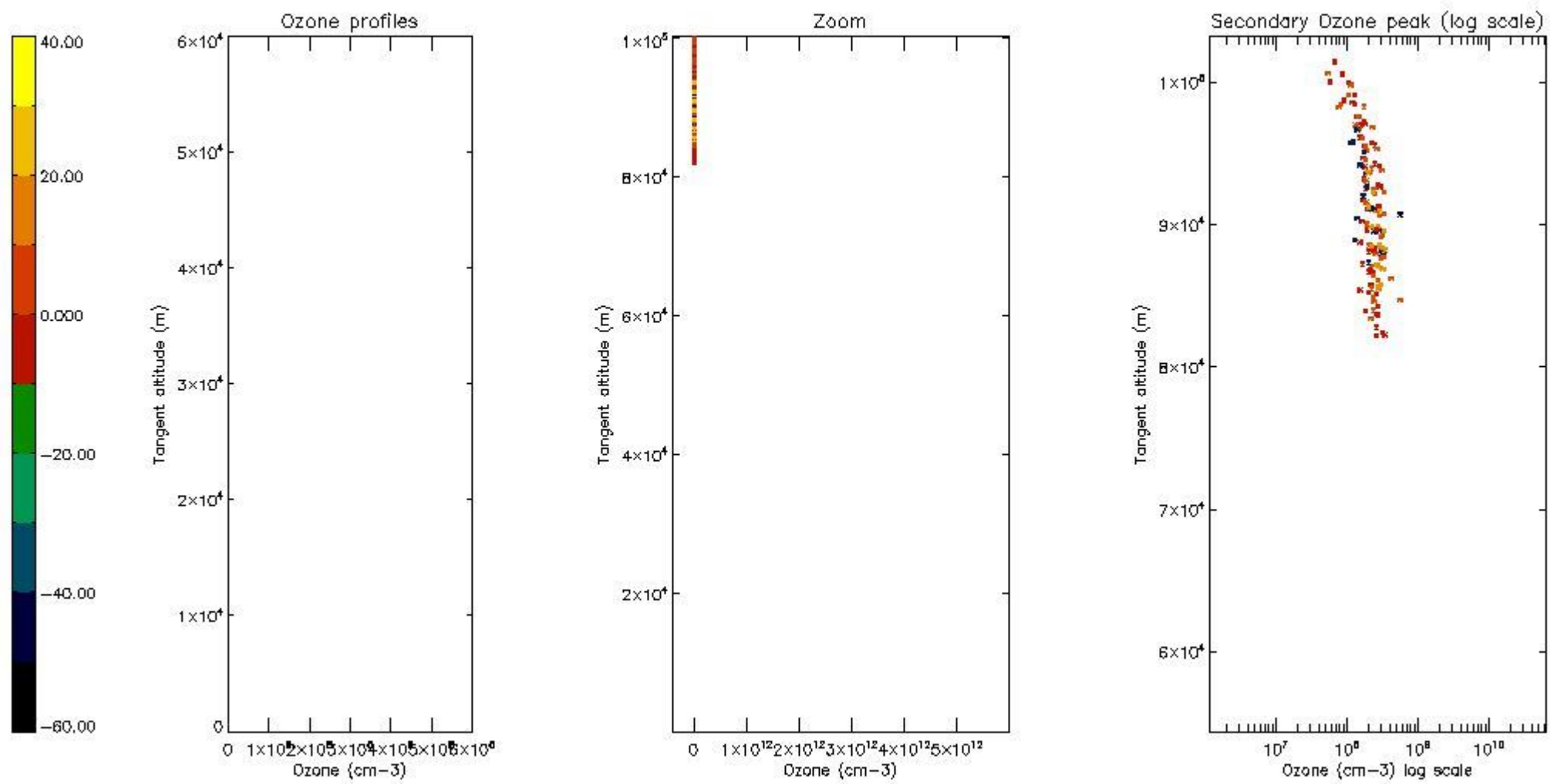
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



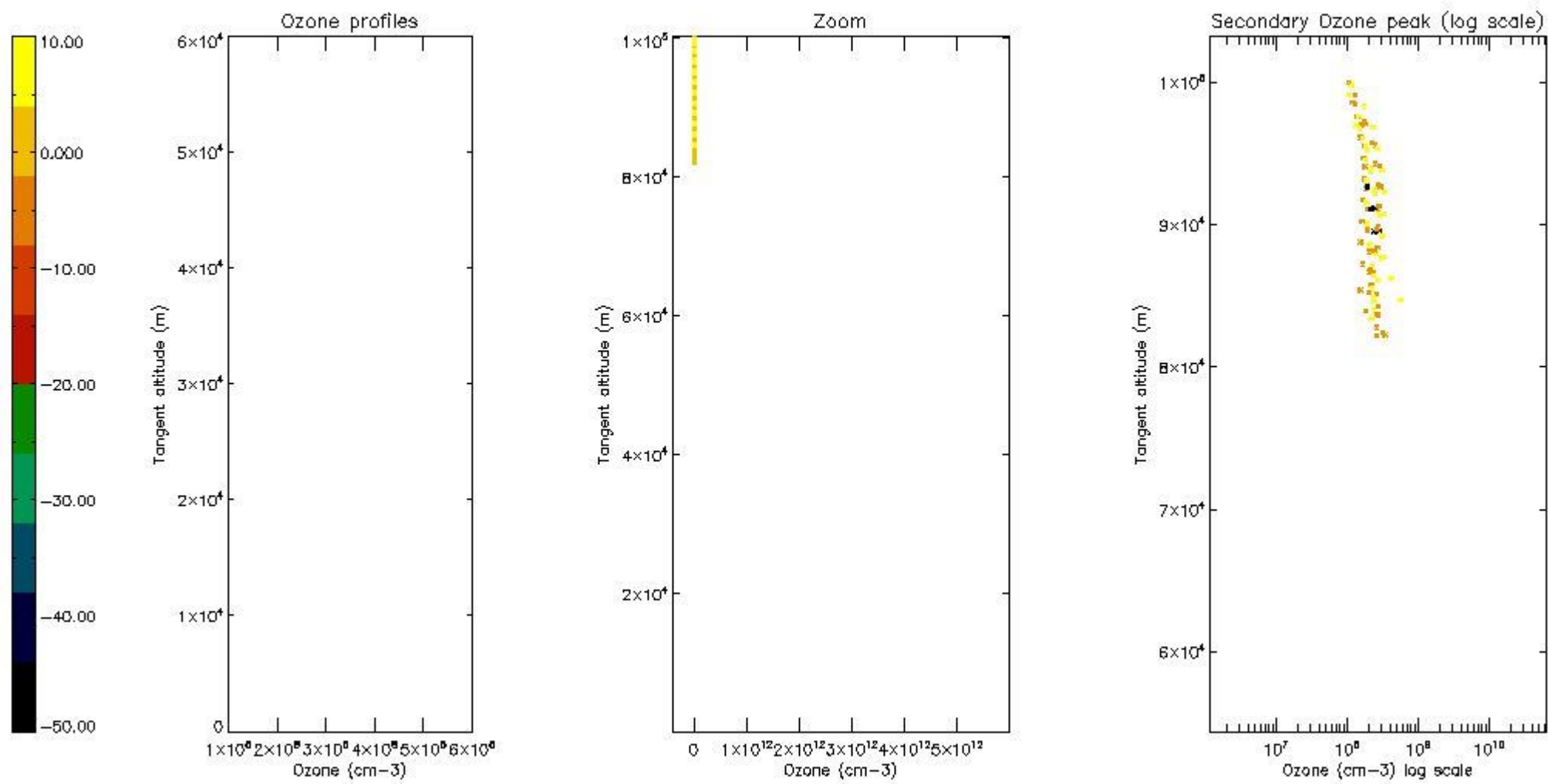
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



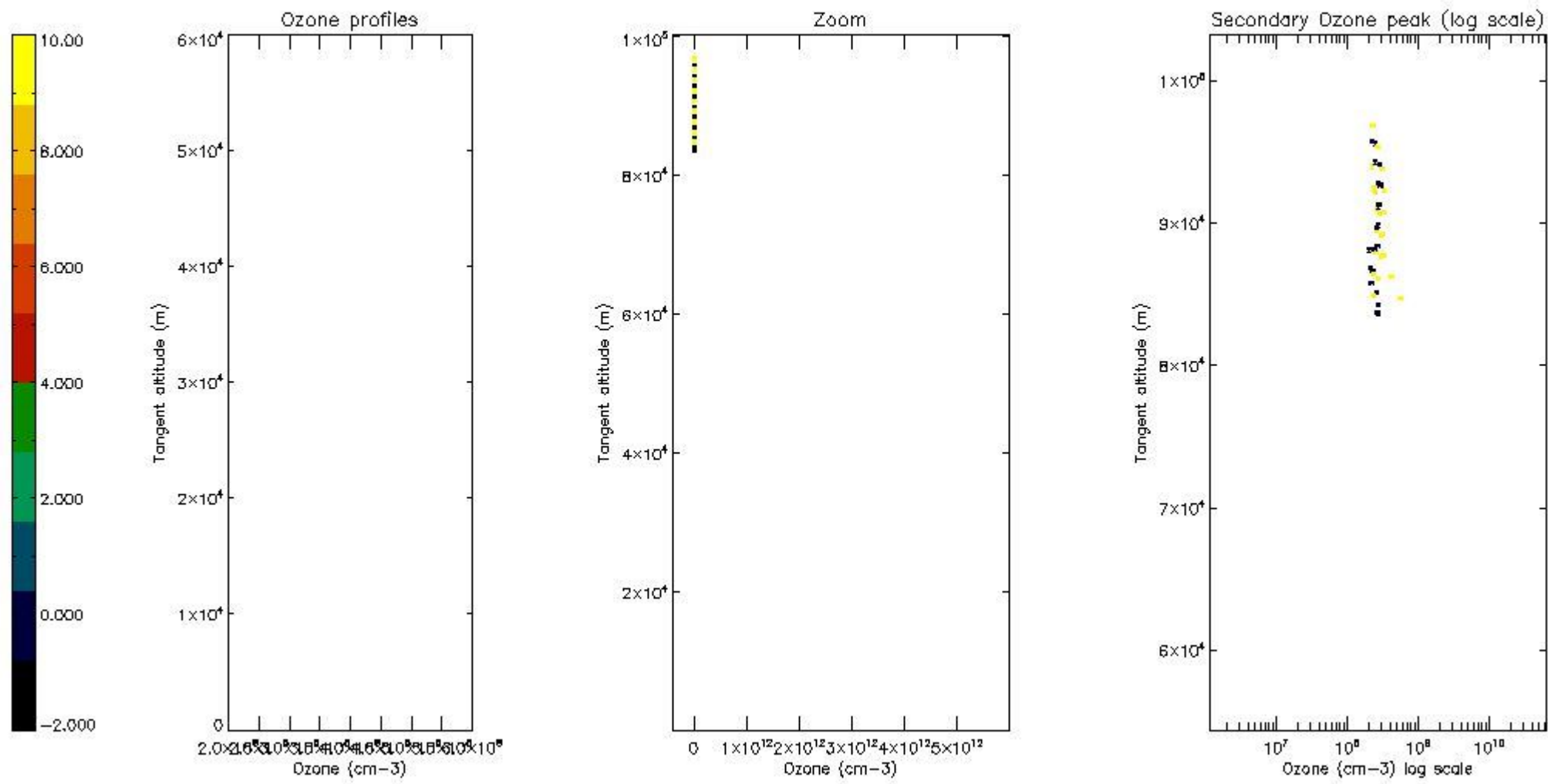
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



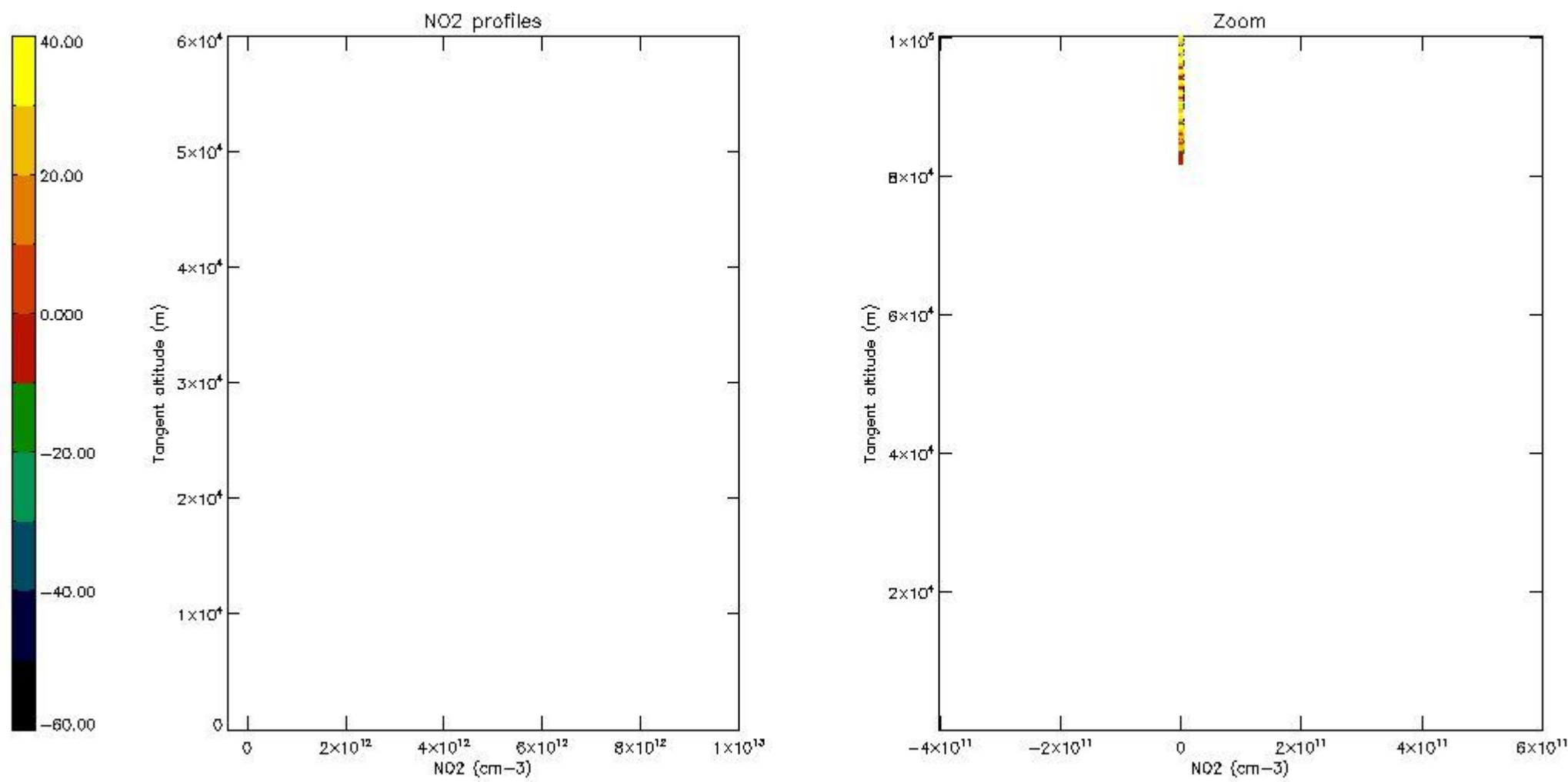
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



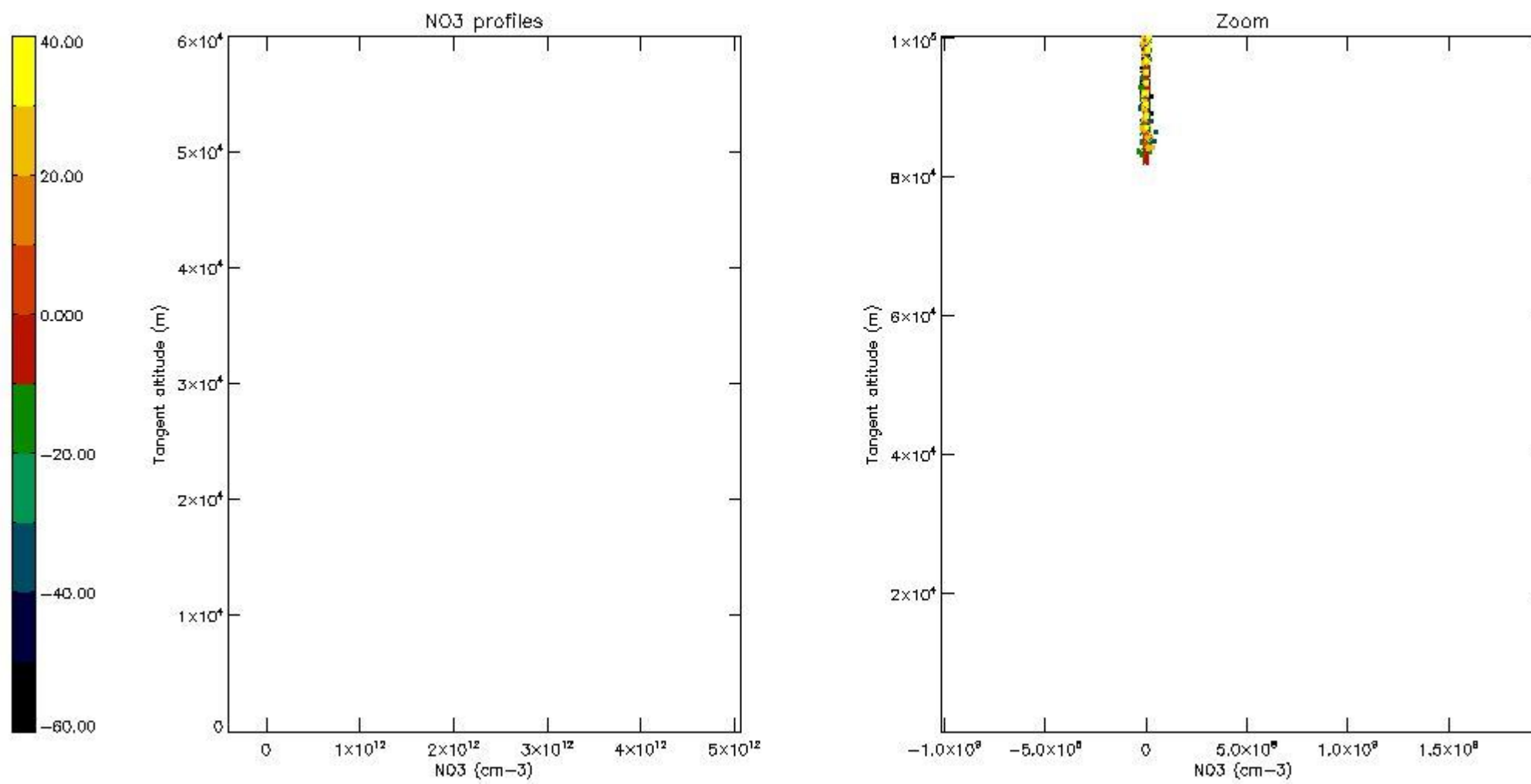
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

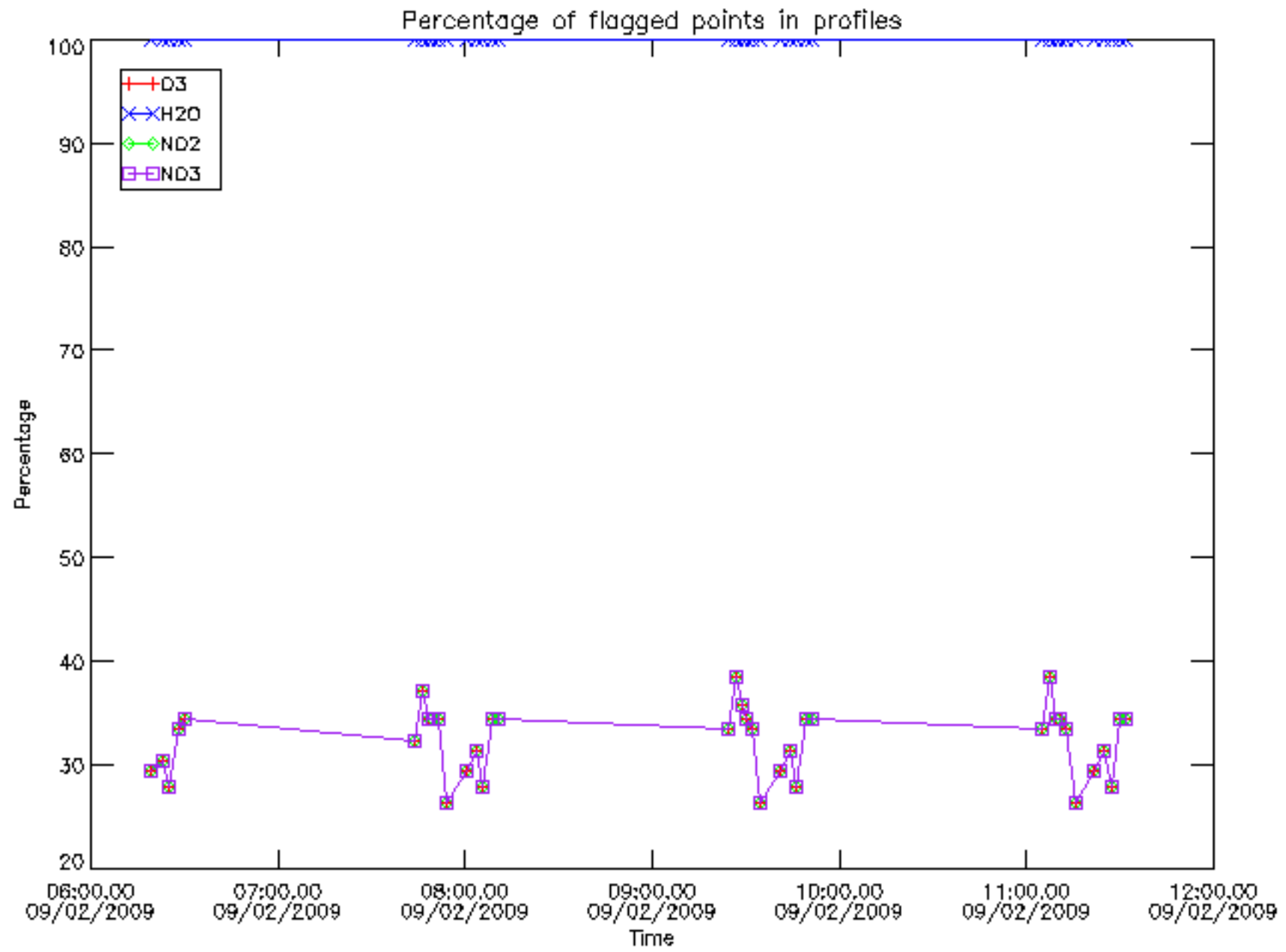
The colorbar represents the latitude.



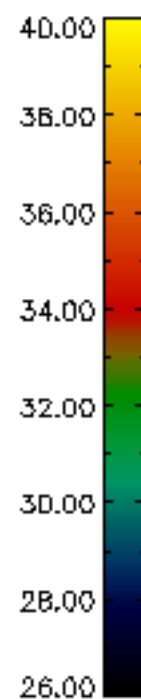
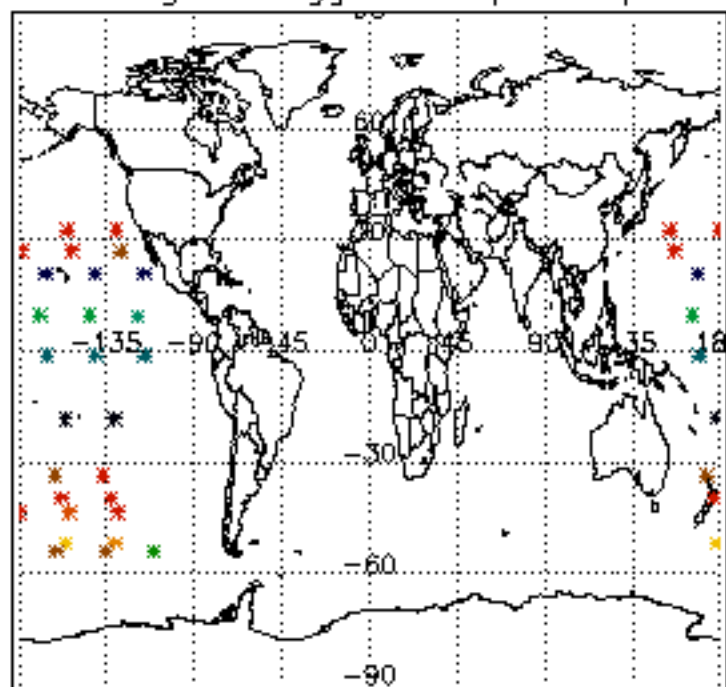
6. Auxiliary Data Files used for the production reported in section 2

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.

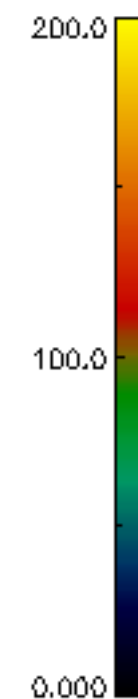
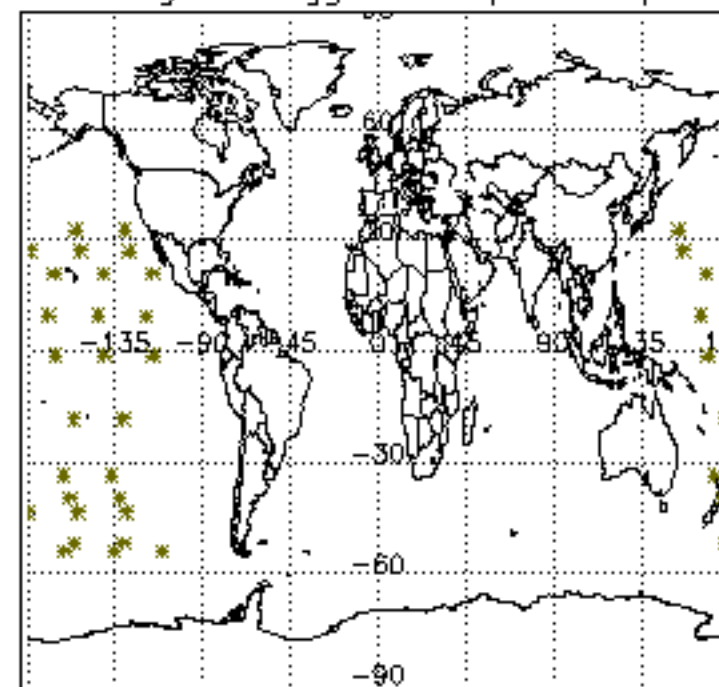
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	09-FEB-2009 06:19:30
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	09-FEB-2009 06:19:30
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	09-FEB-2009 06:19:30



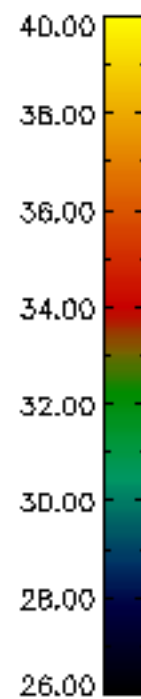
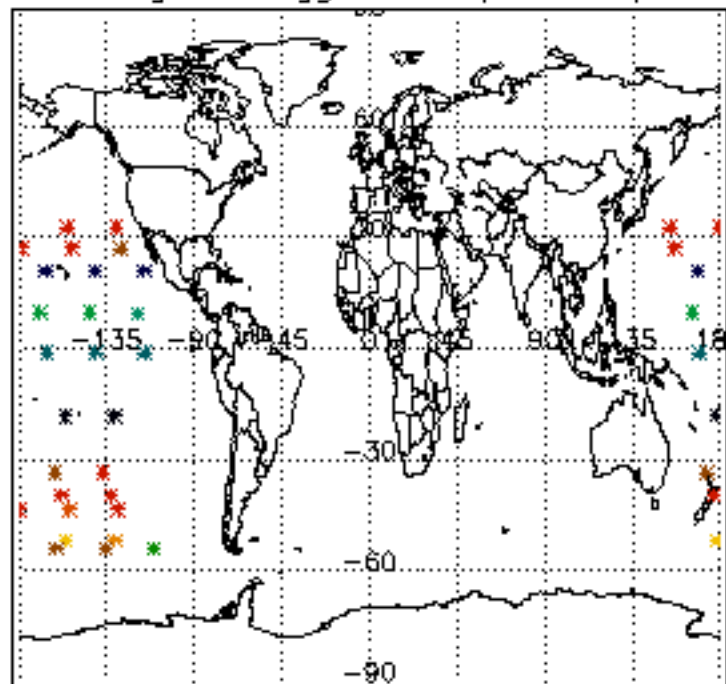
Percentage of flagged data per D3 profile



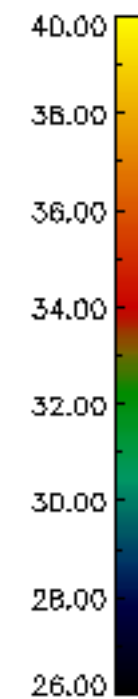
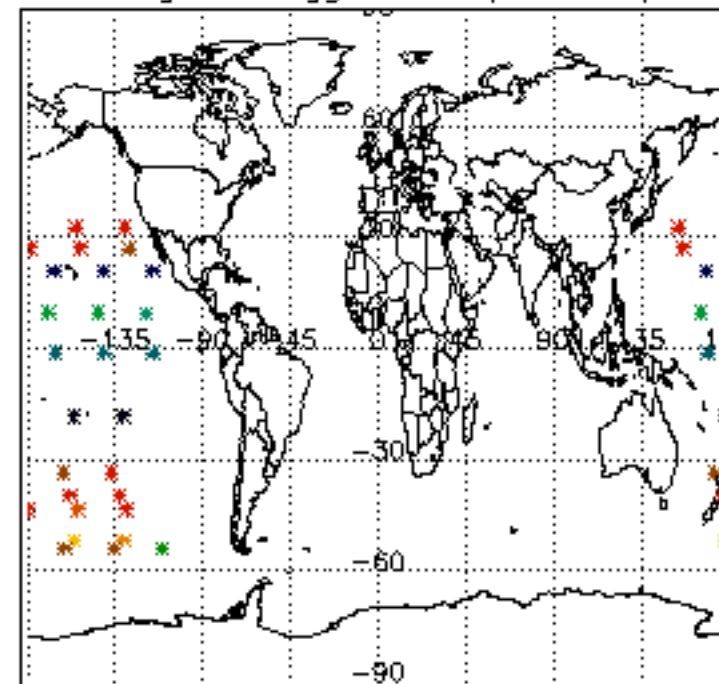
Percentage of flagged data per H2O profile

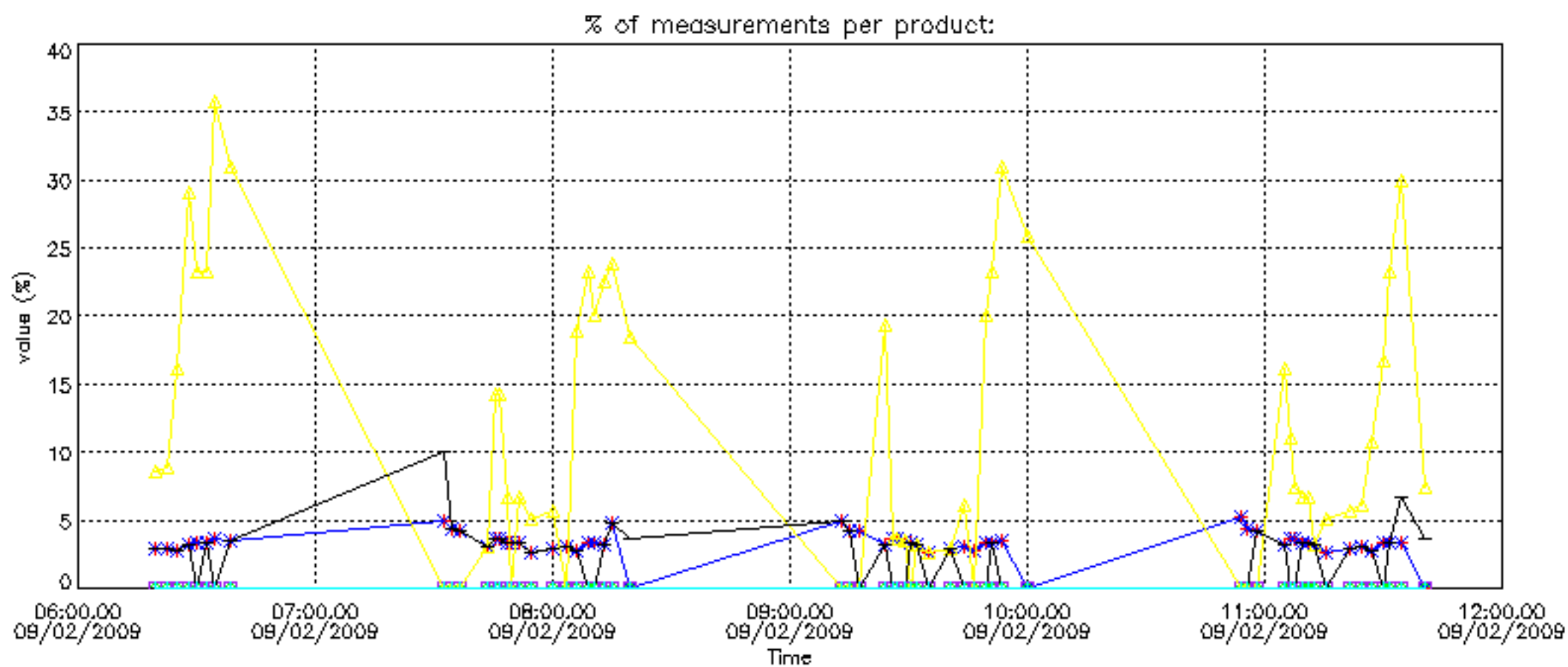


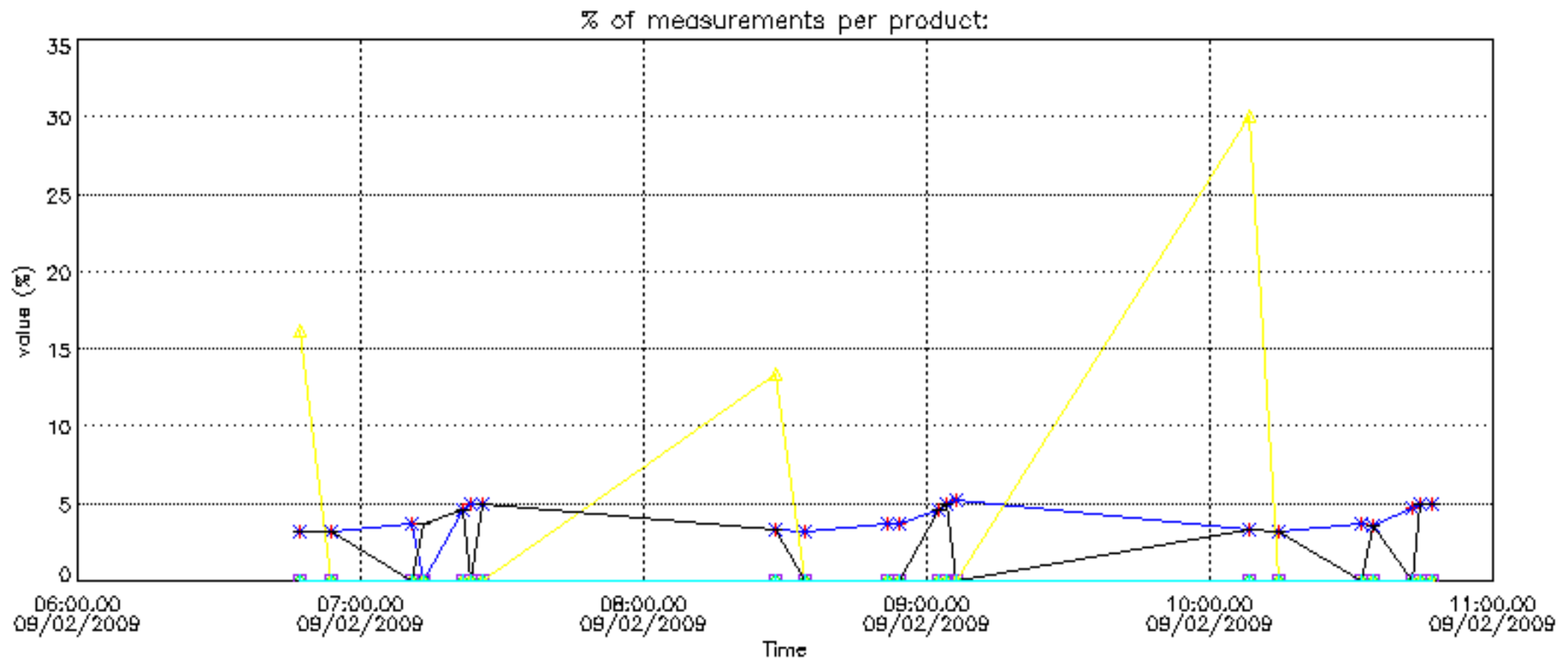
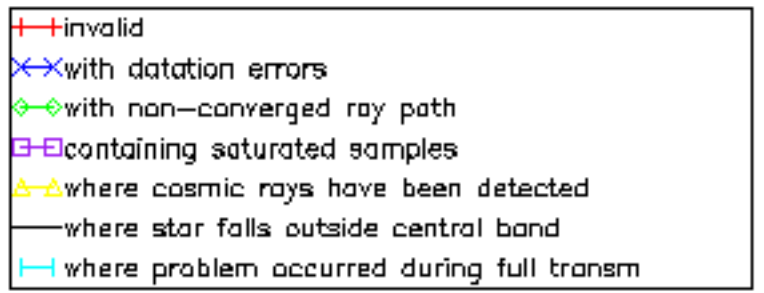
Percentage of flagged data per NO2 profile



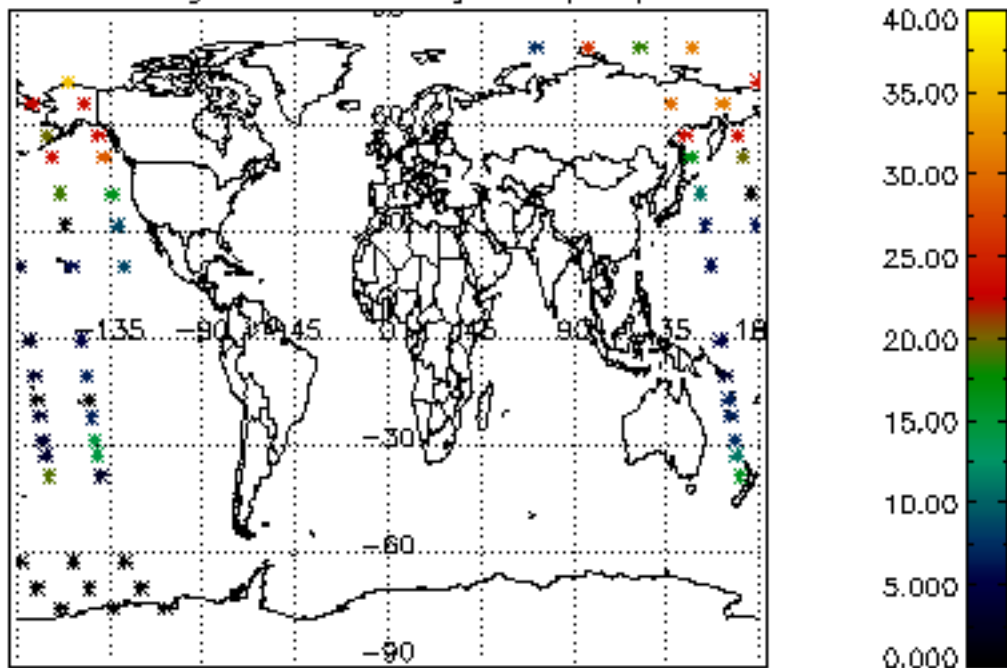
Percentage of flagged data per NO3 profile



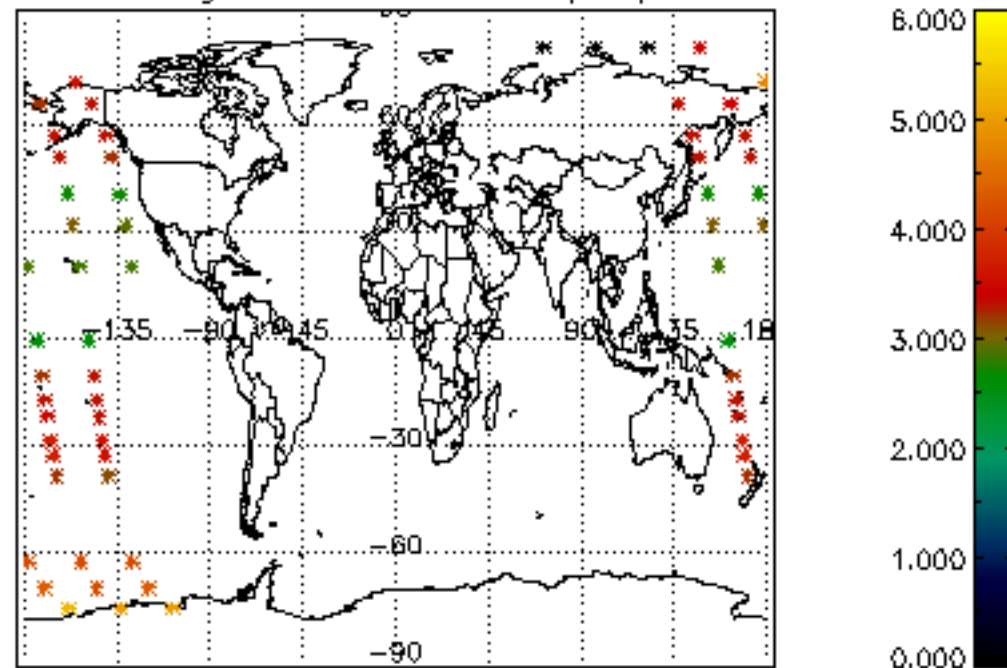




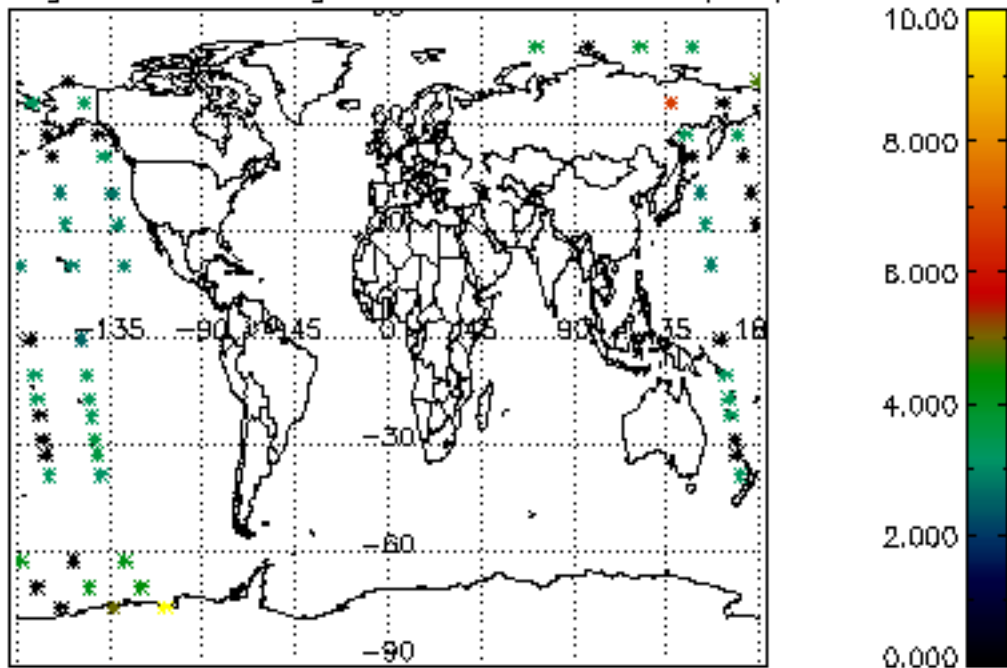
Percentage of cosmic ray hits per profile



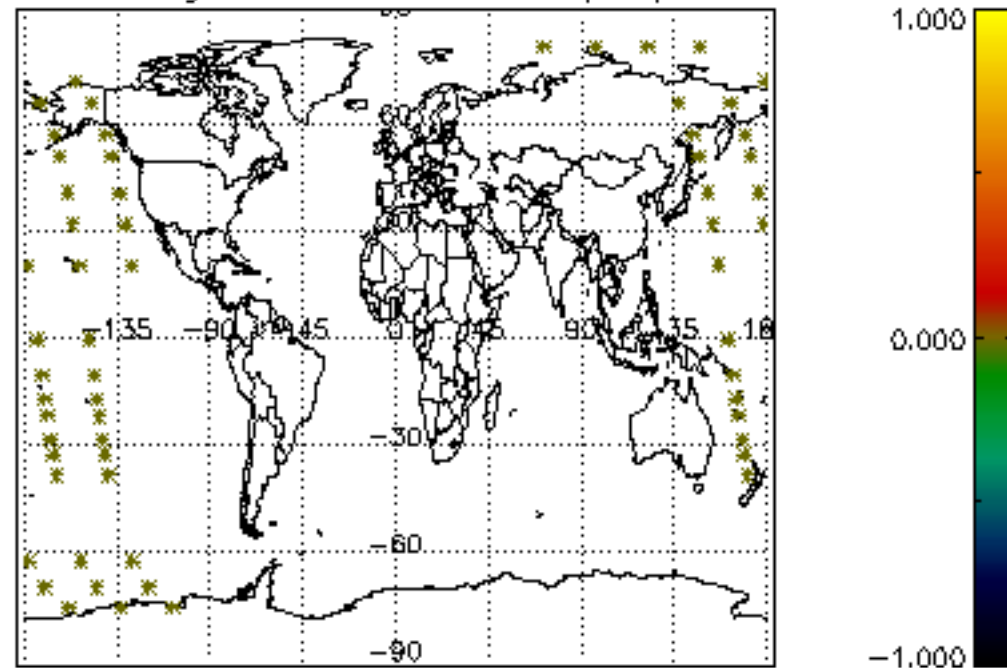
Percentage of datation errors per profile



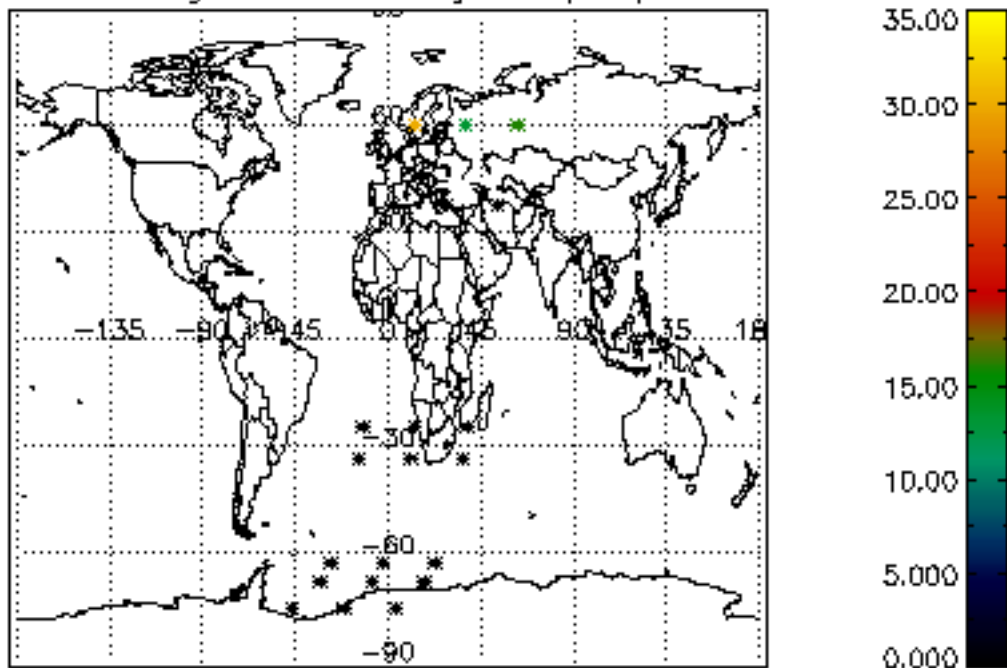
Percentage of star falling outside central band per profile



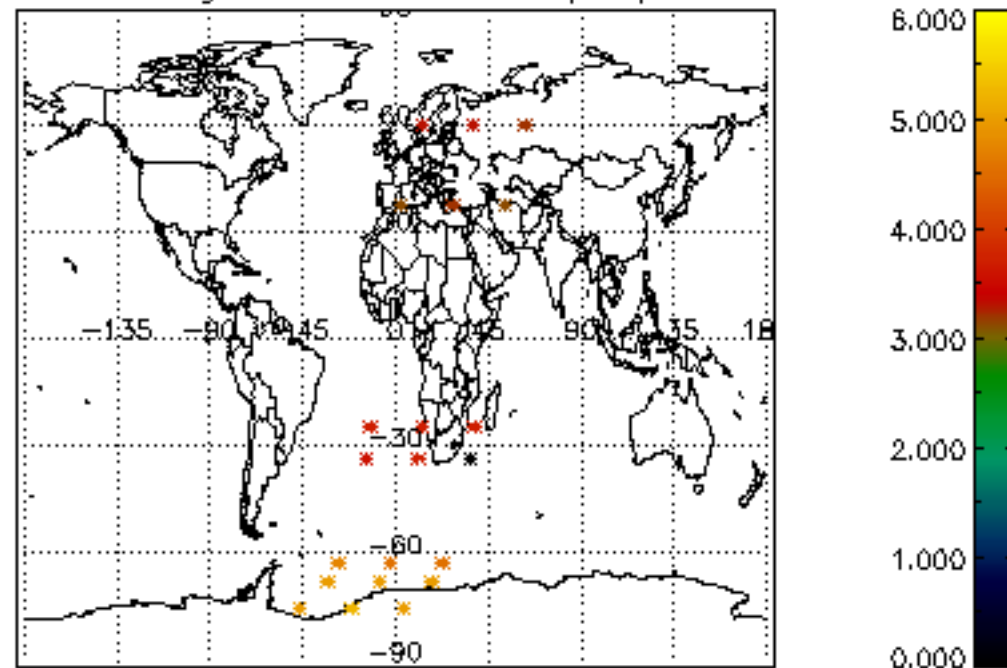
Percentage of saturation errors per profile



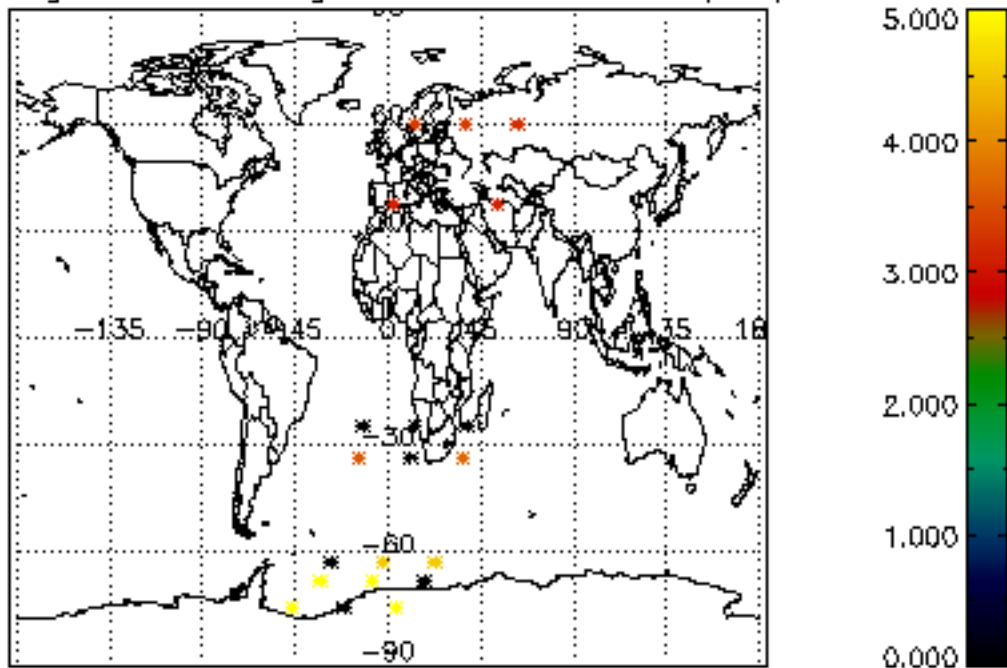
Percentage of cosmic ray hits per profile



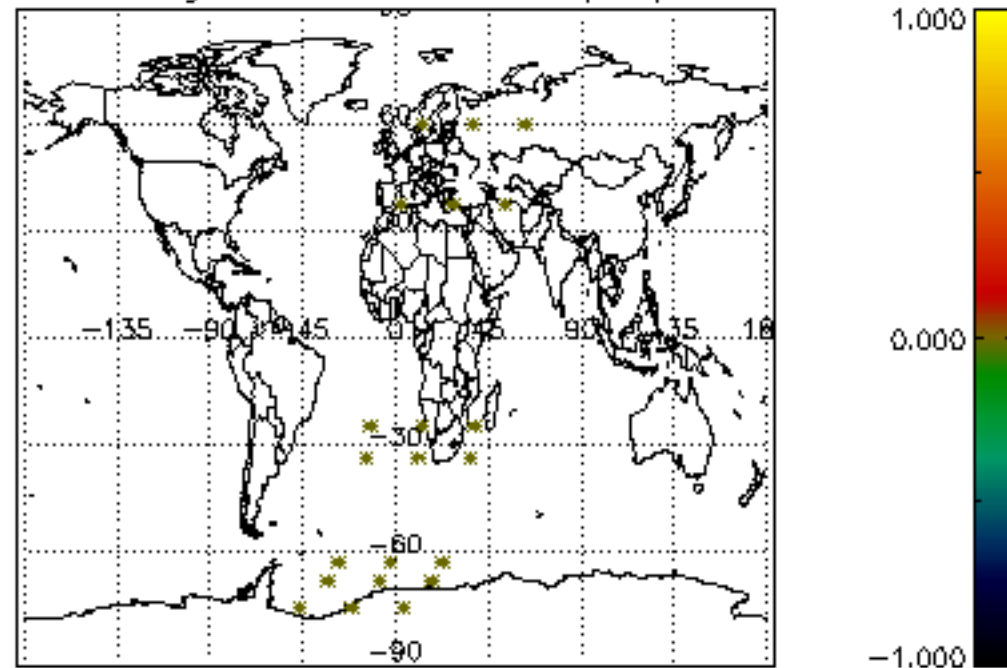
Percentage of datation errors per profile

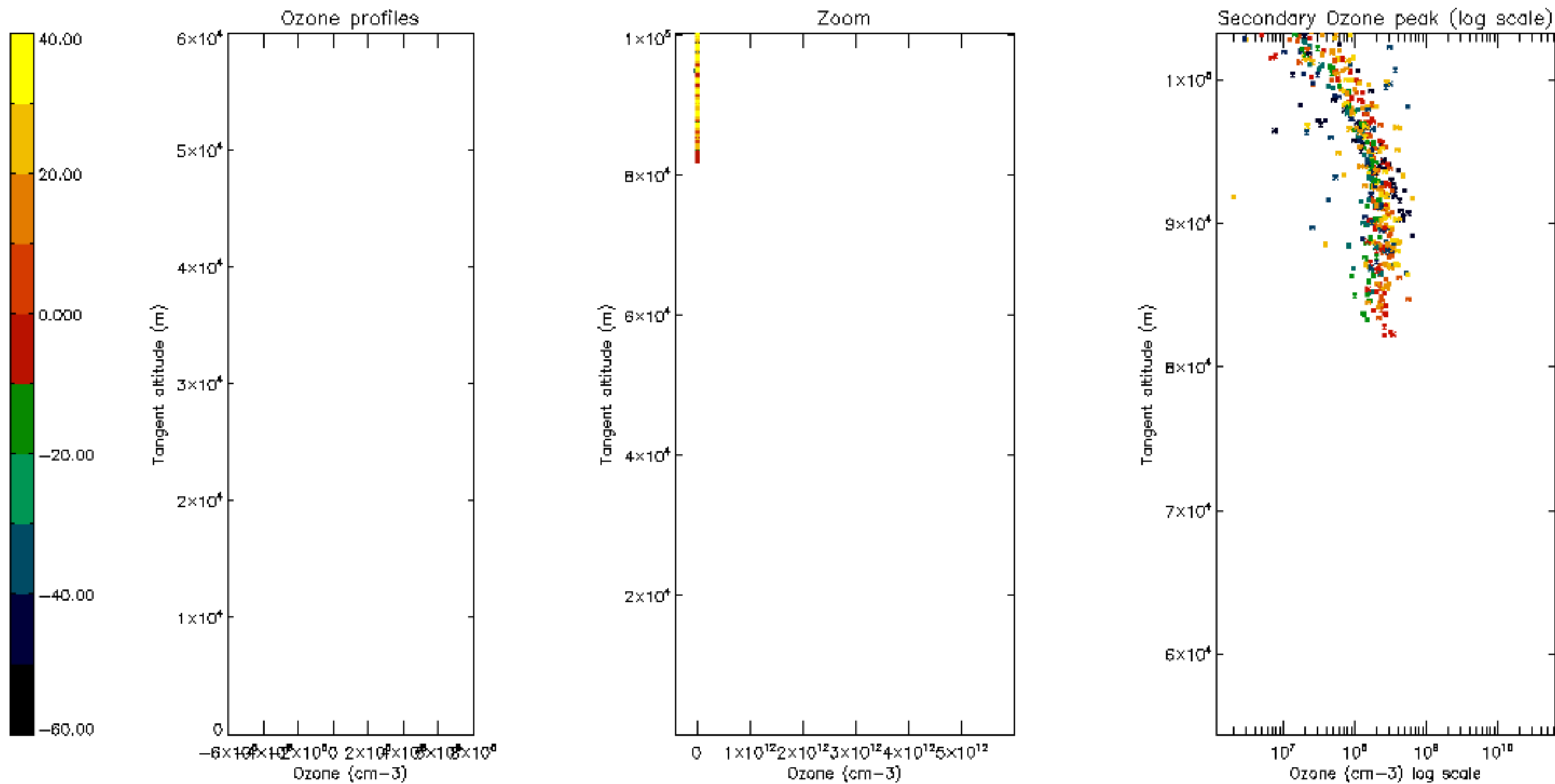


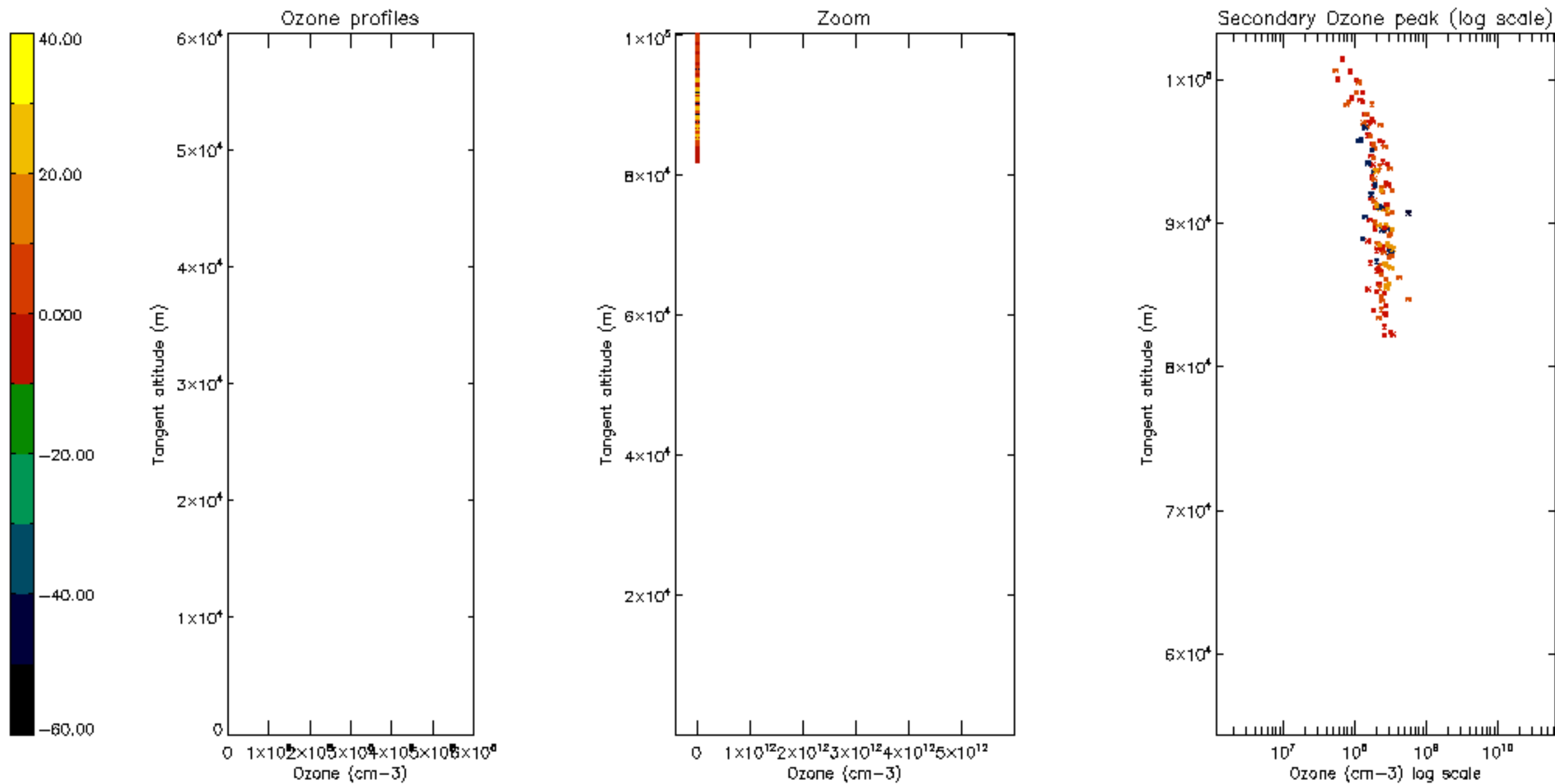
Percentage of star falling outside central band per profile

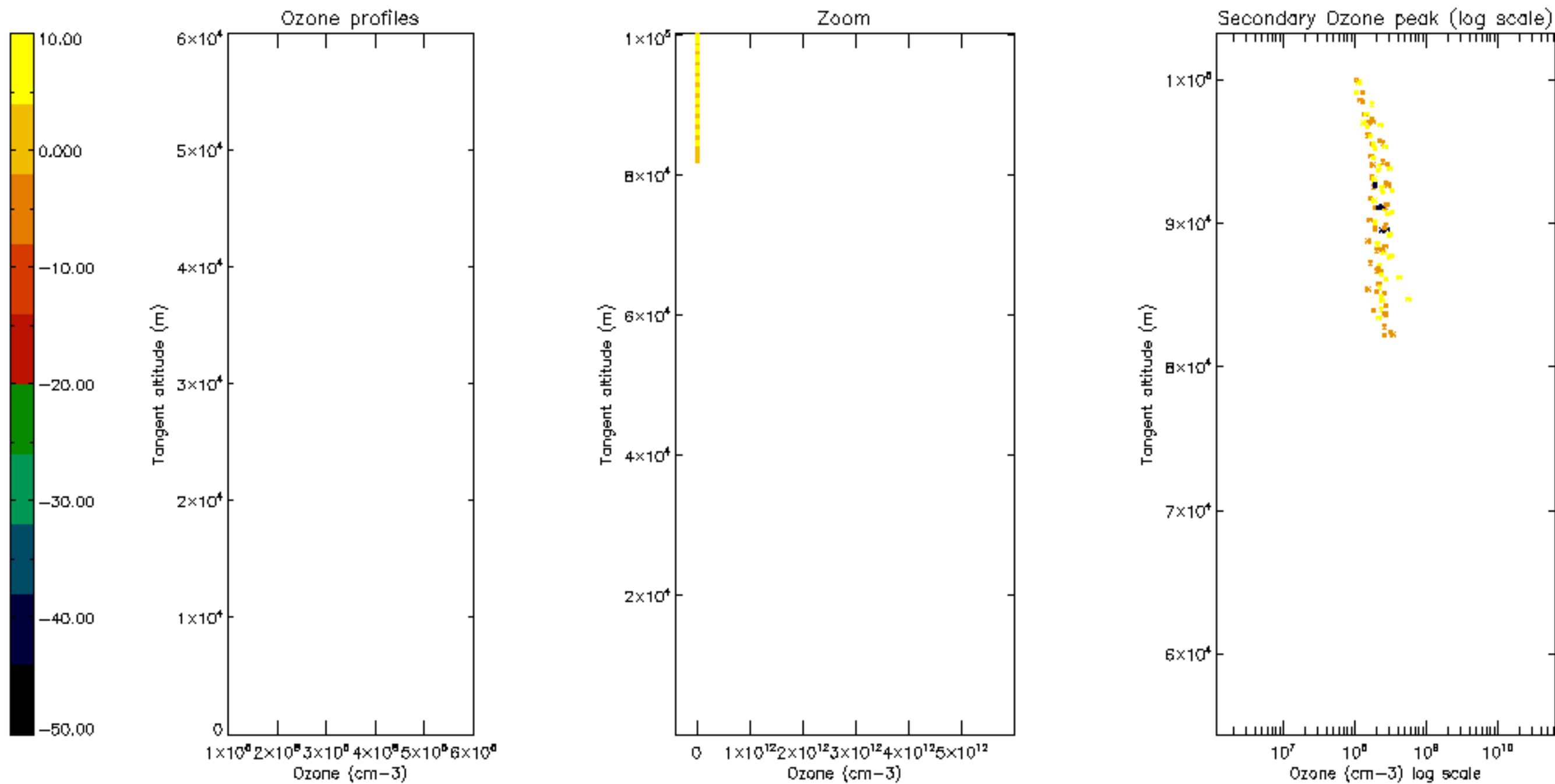


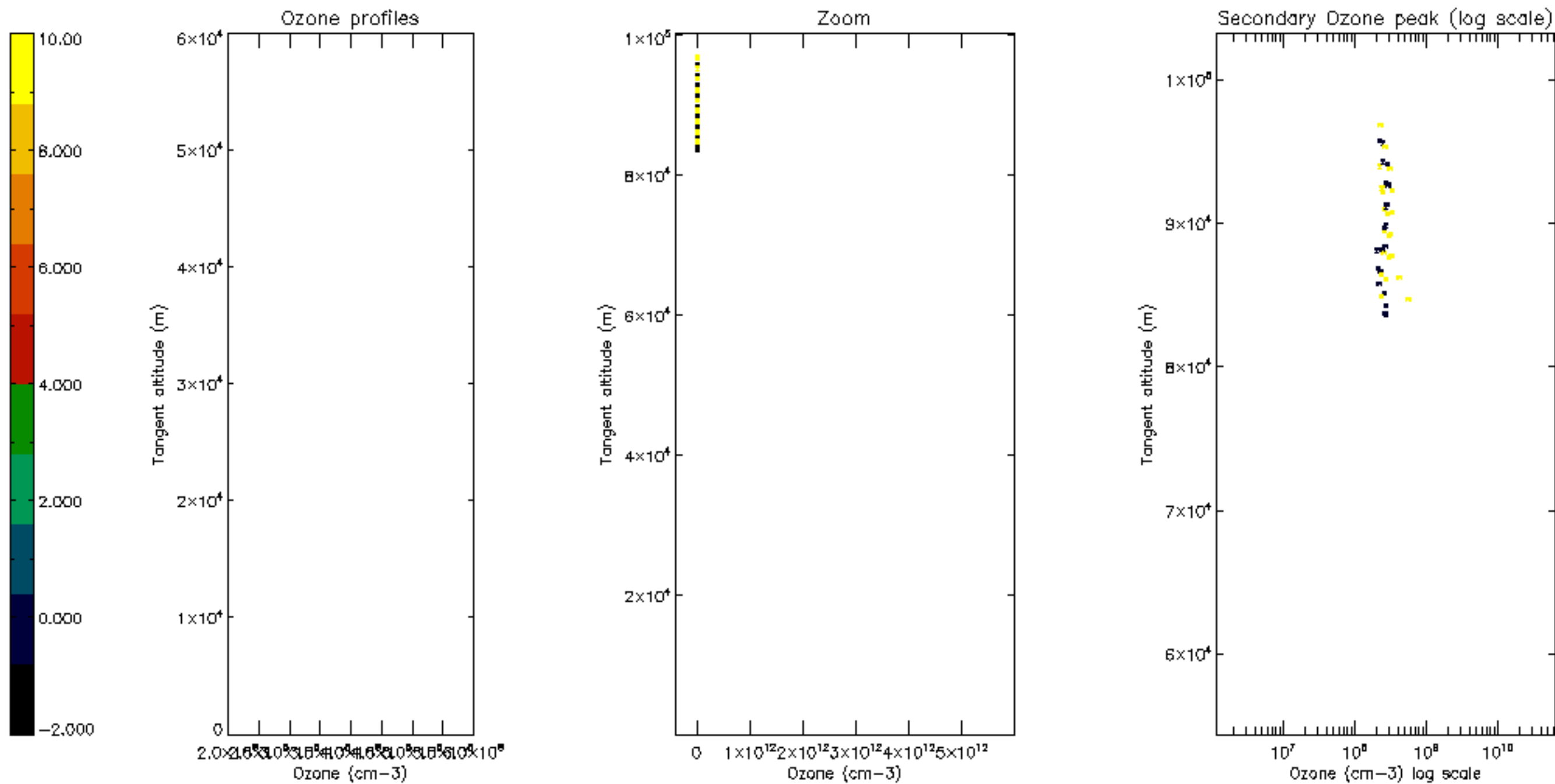
Percentage of saturation errors per profile

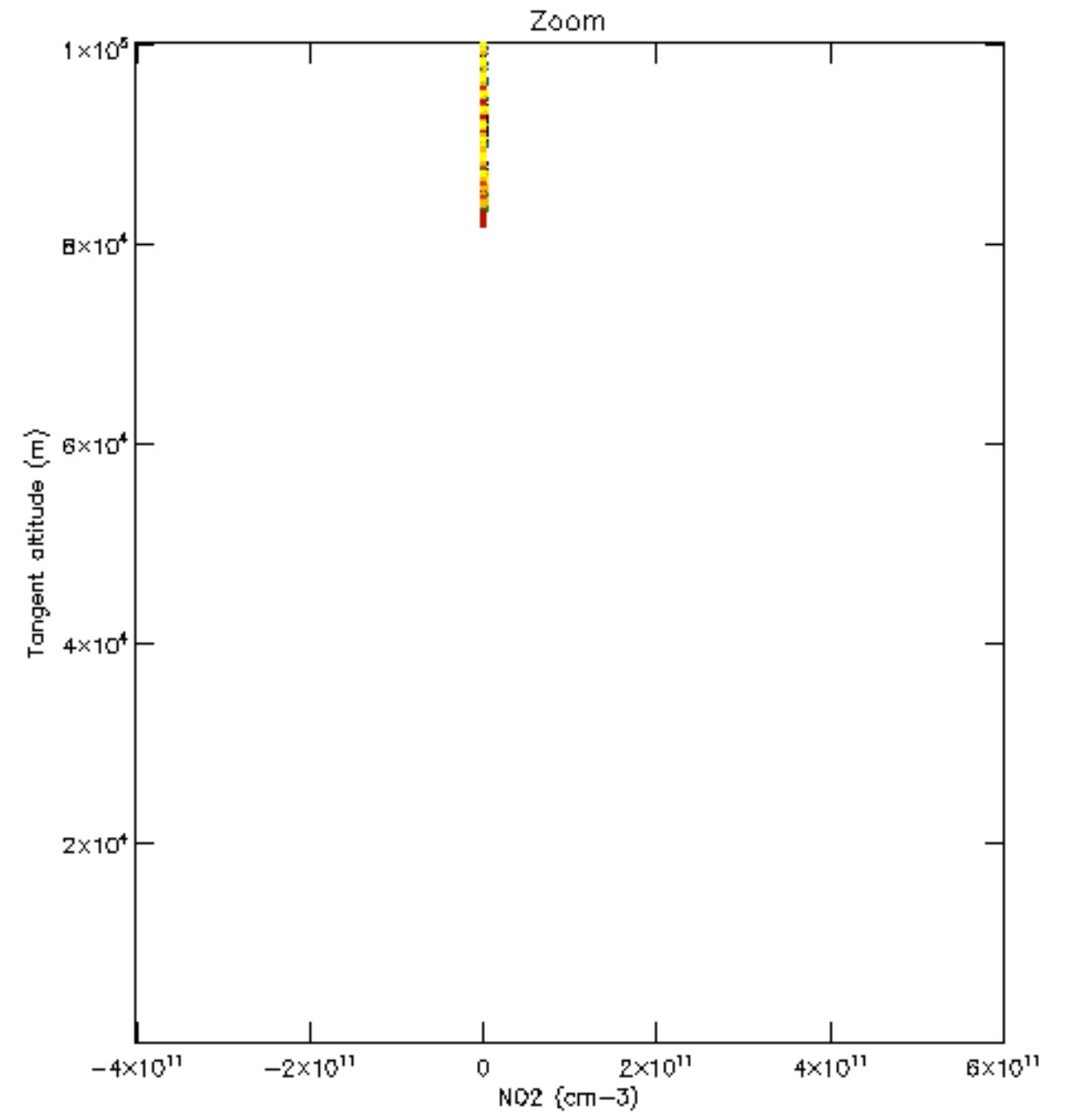
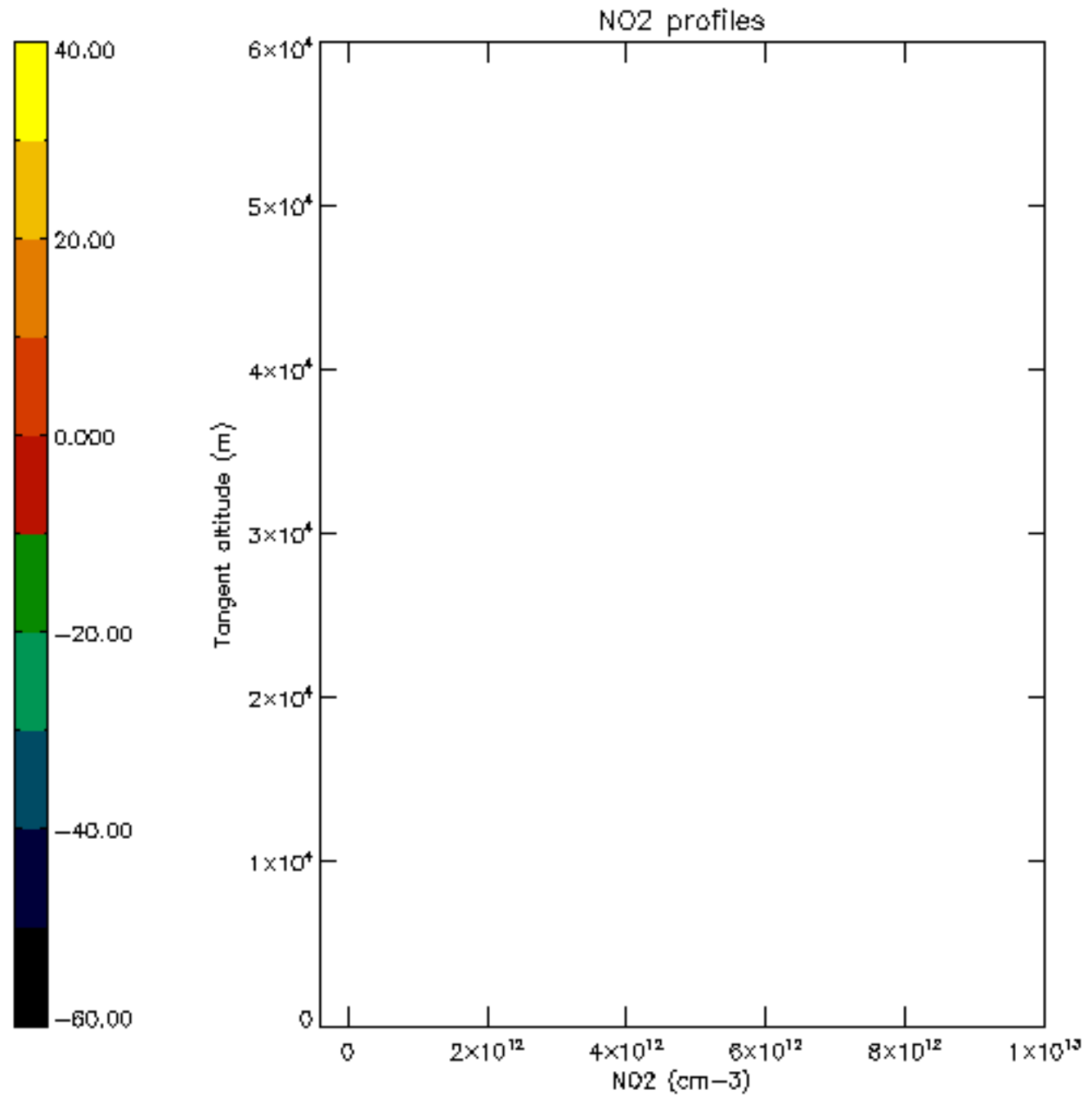


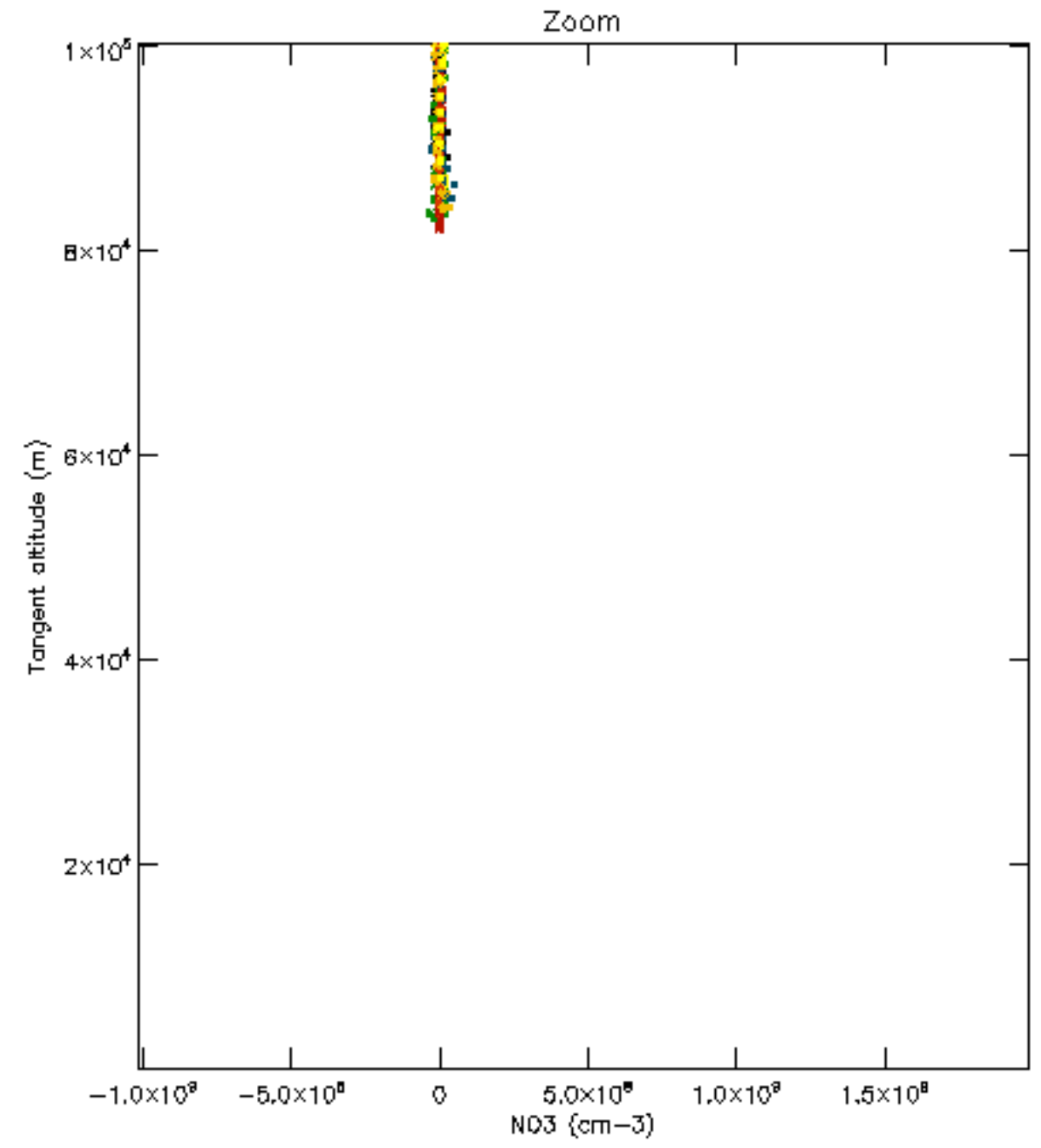
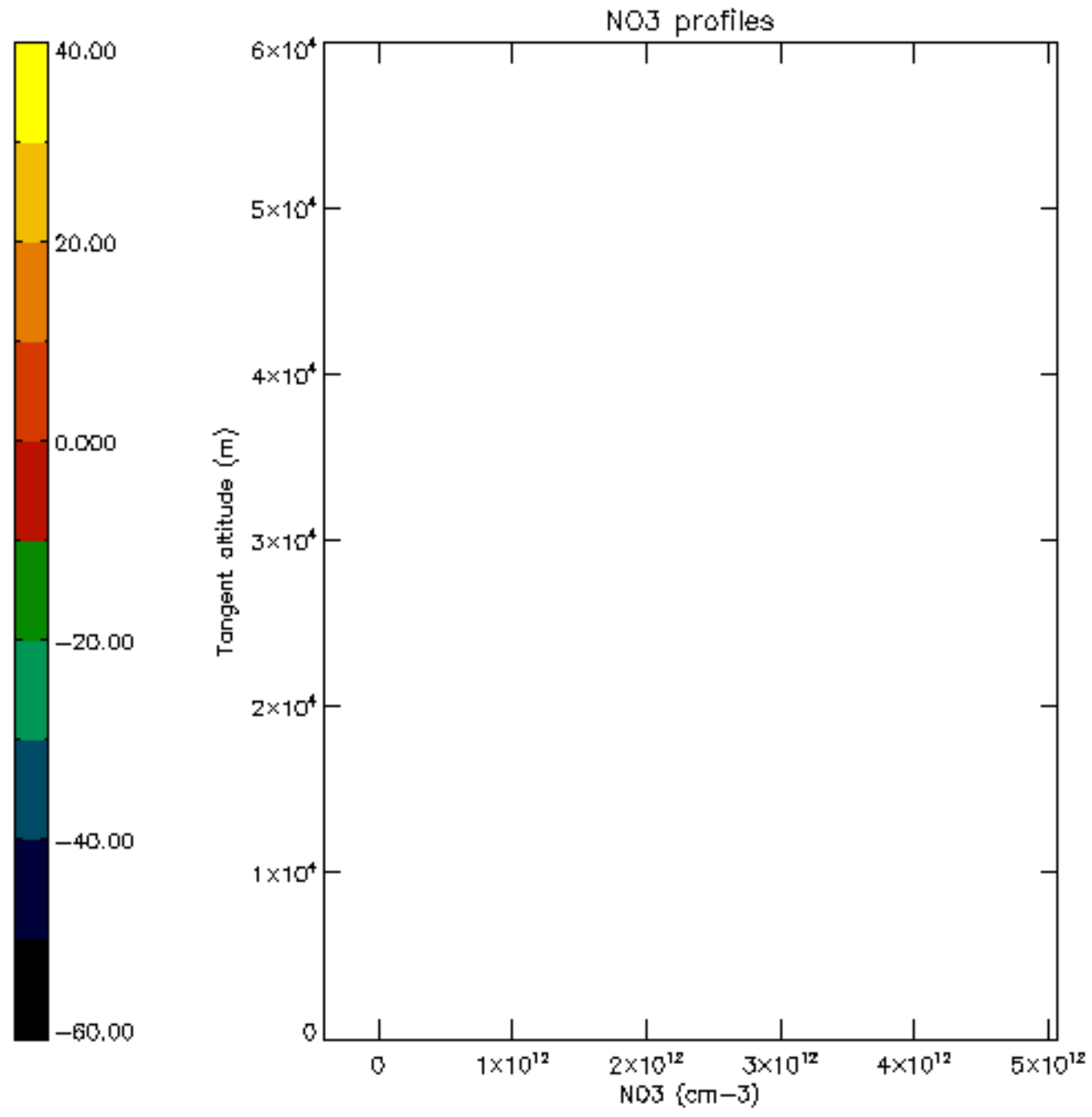


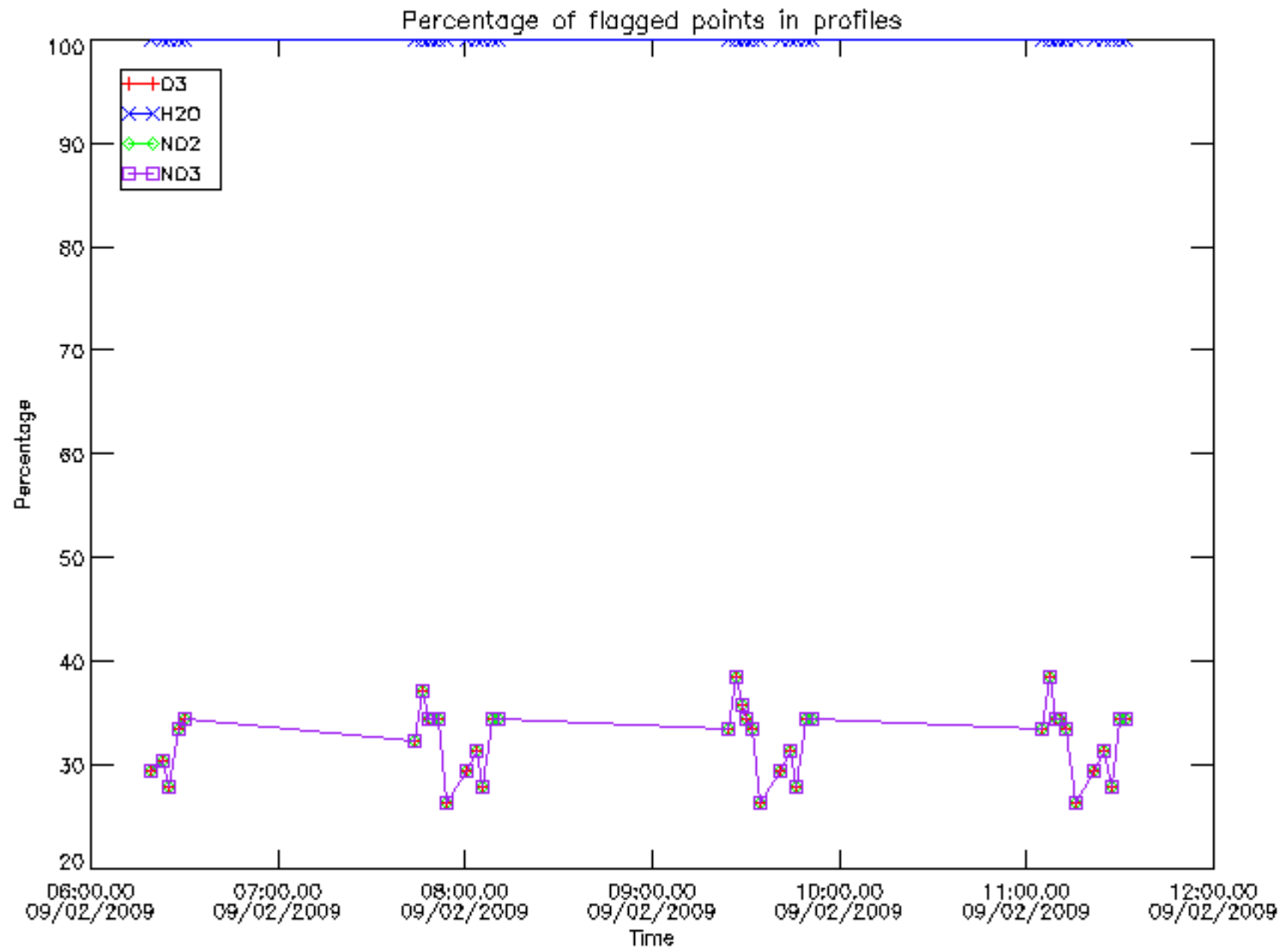




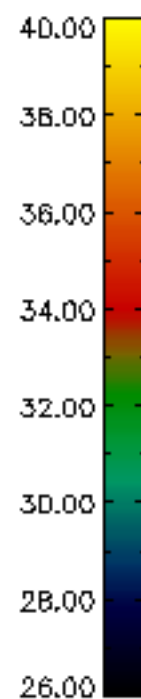
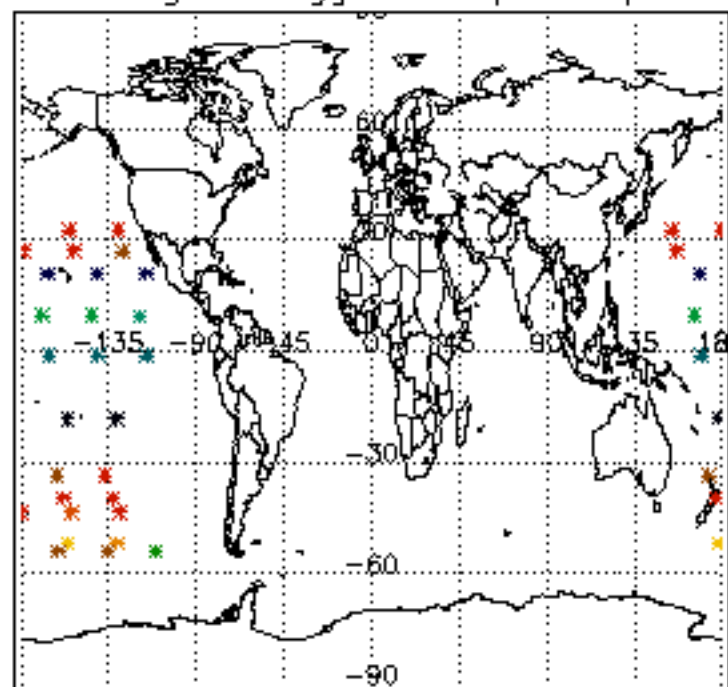




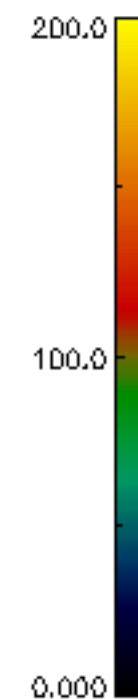
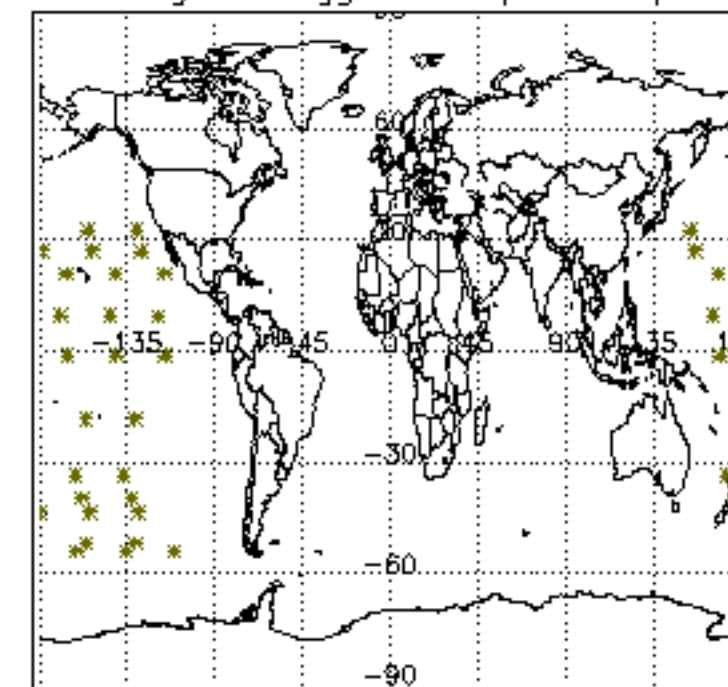




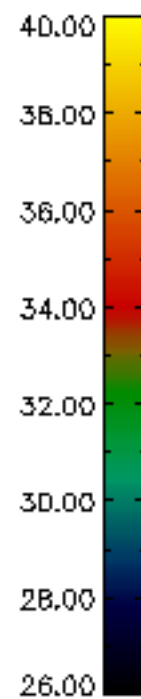
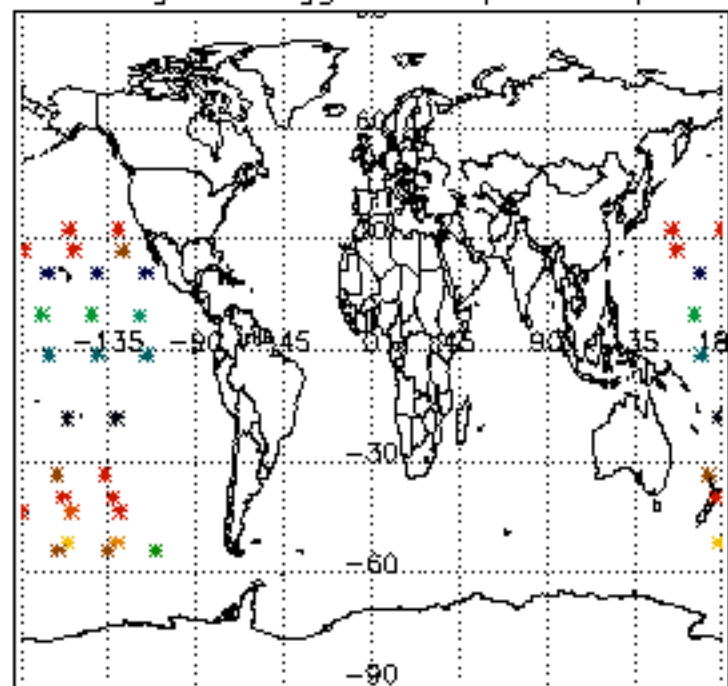
Percentage of flagged data per D3 profile



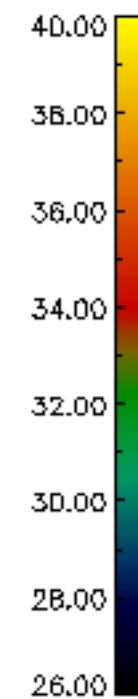
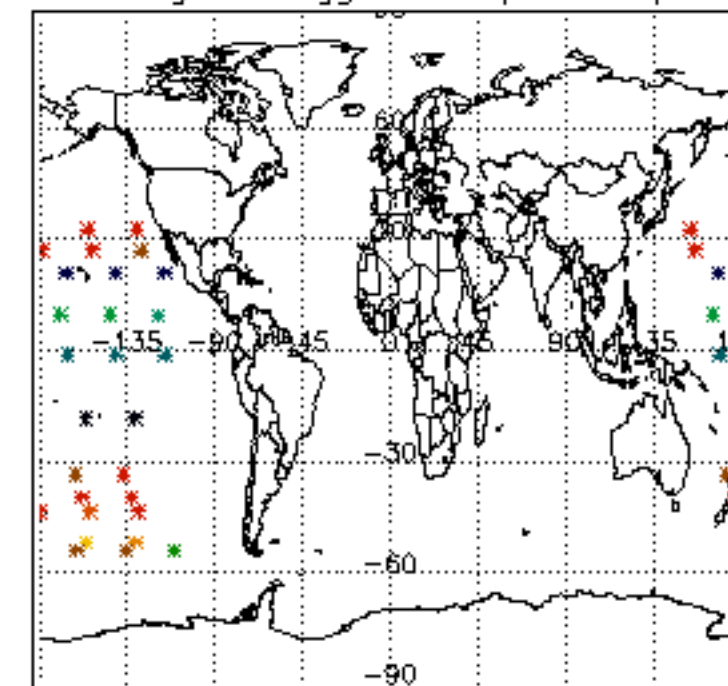
Percentage of flagged data per H2O profile

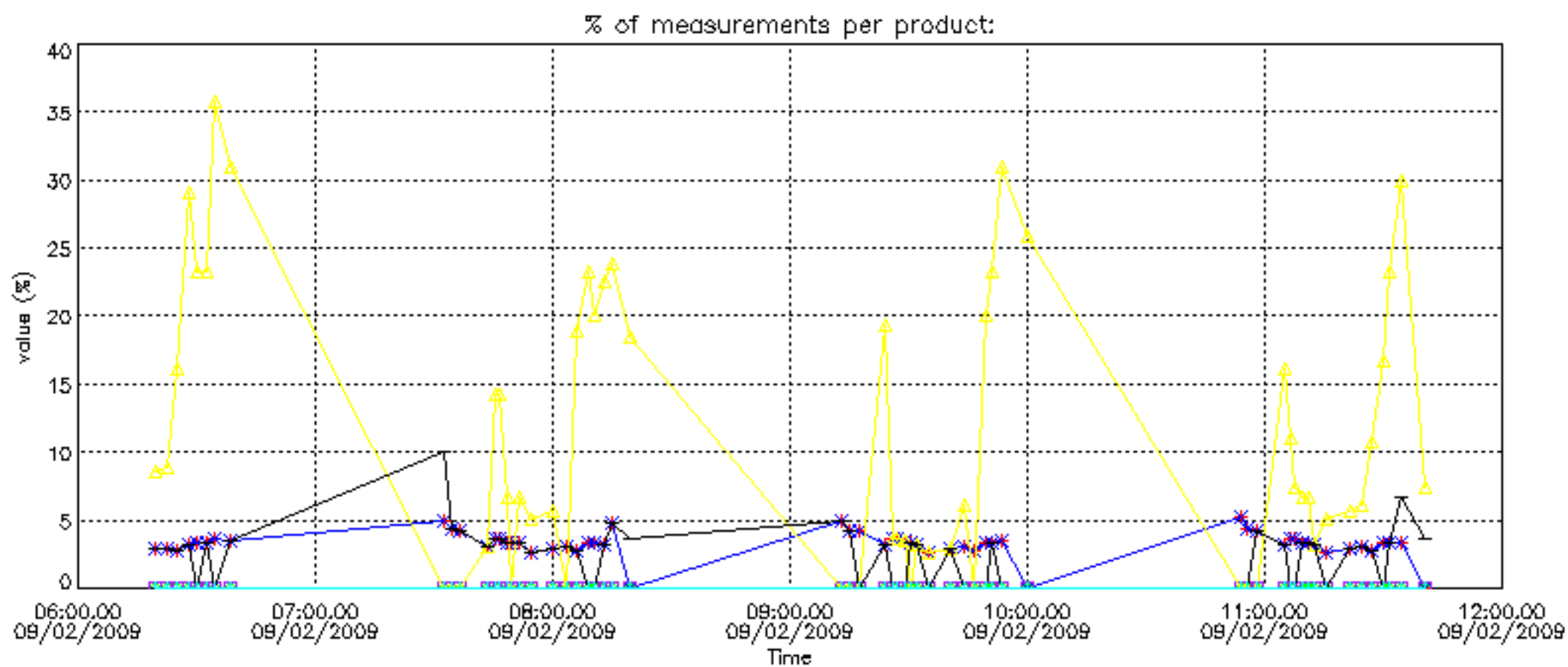


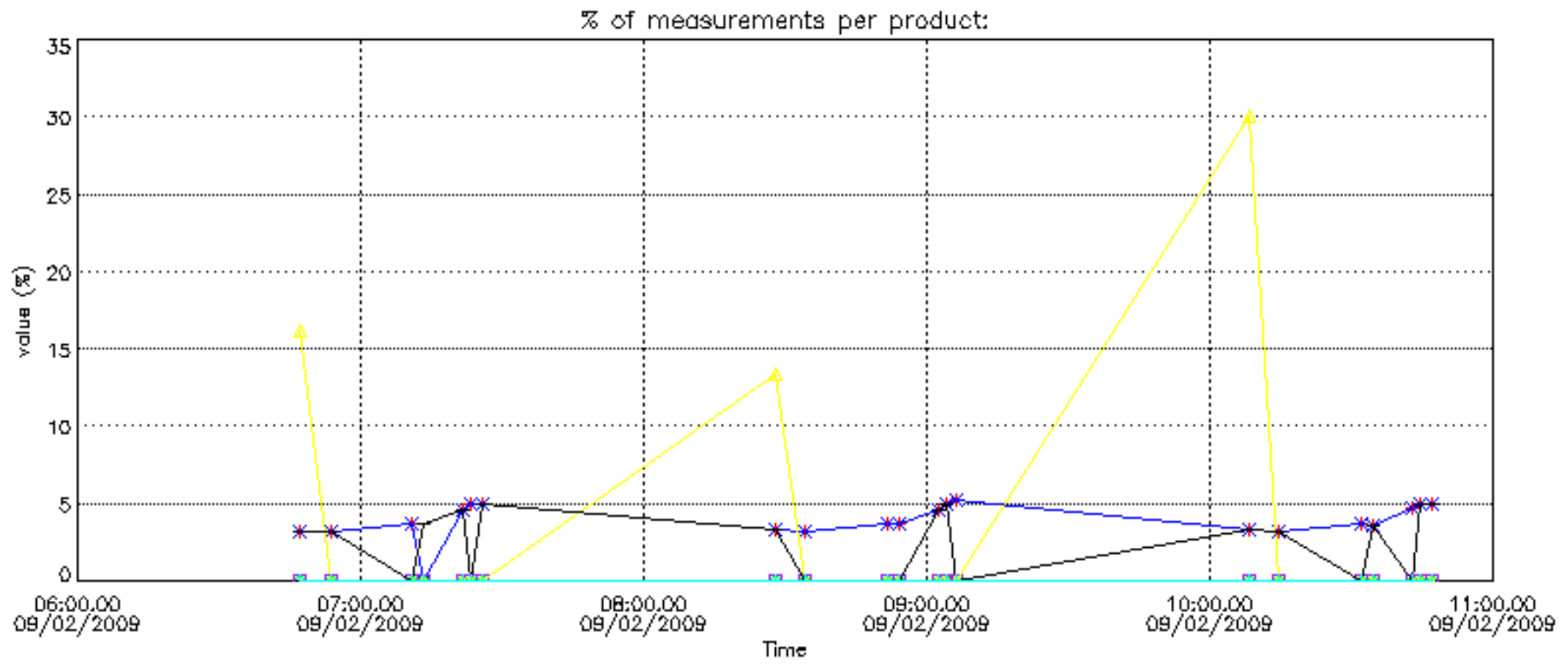
Percentage of flagged data per NO2 profile



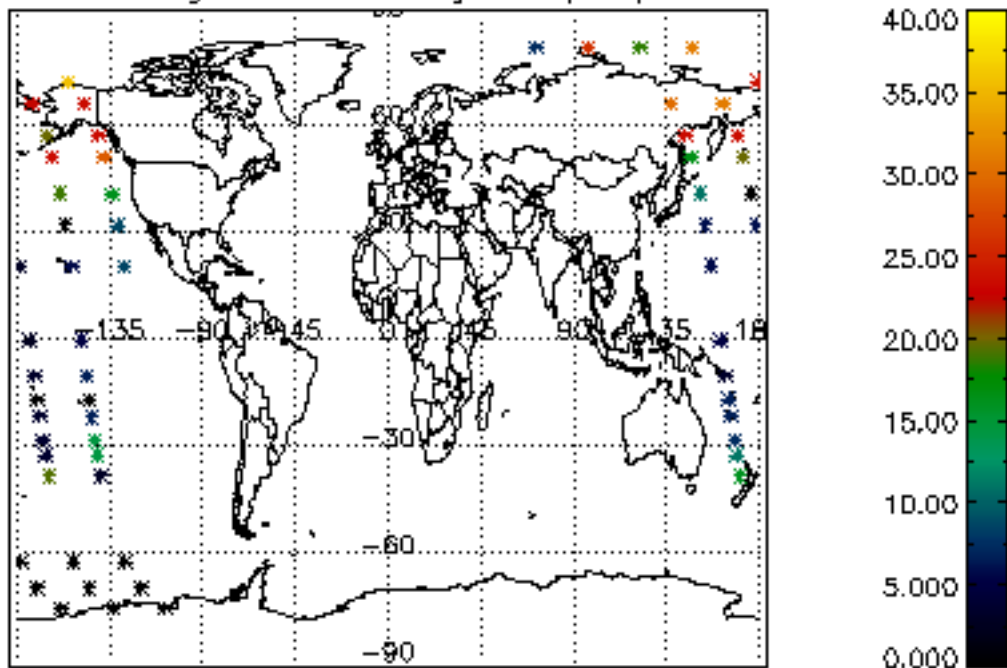
Percentage of flagged data per NO3 profile



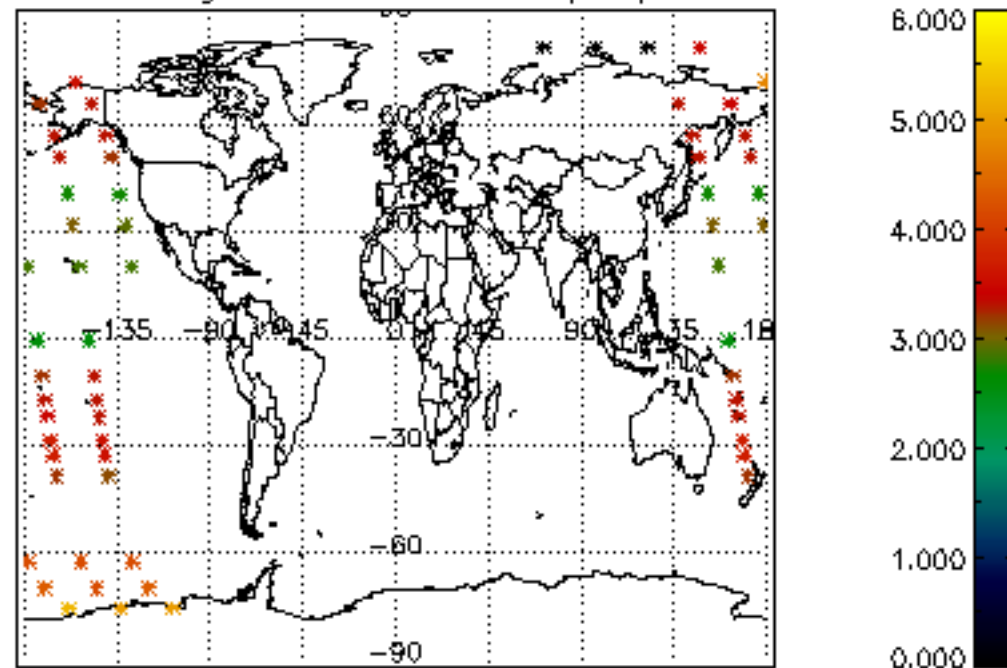




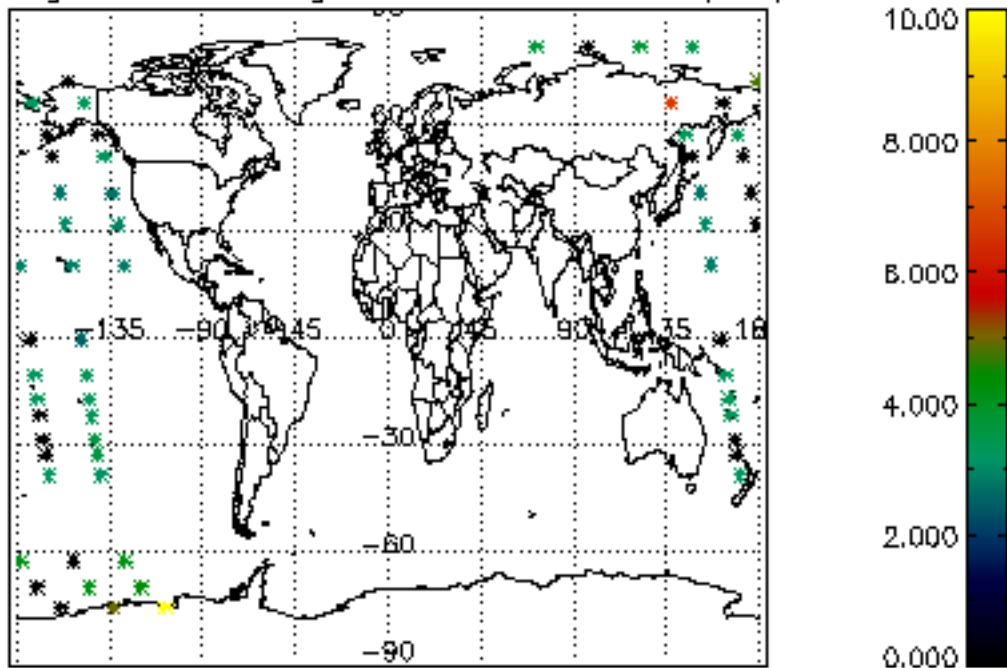
Percentage of cosmic ray hits per profile



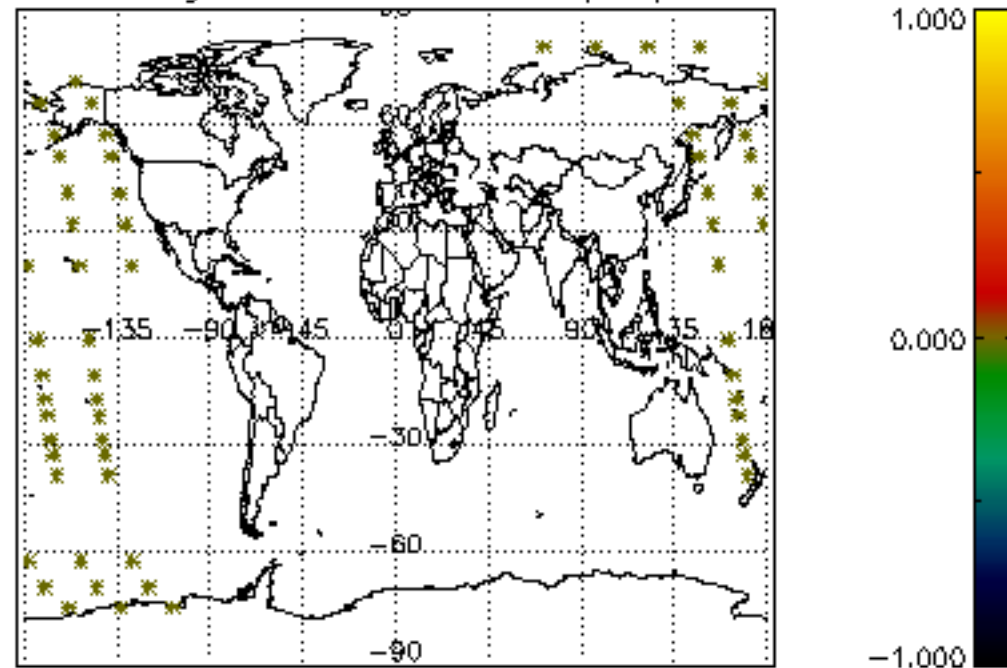
Percentage of datation errors per profile



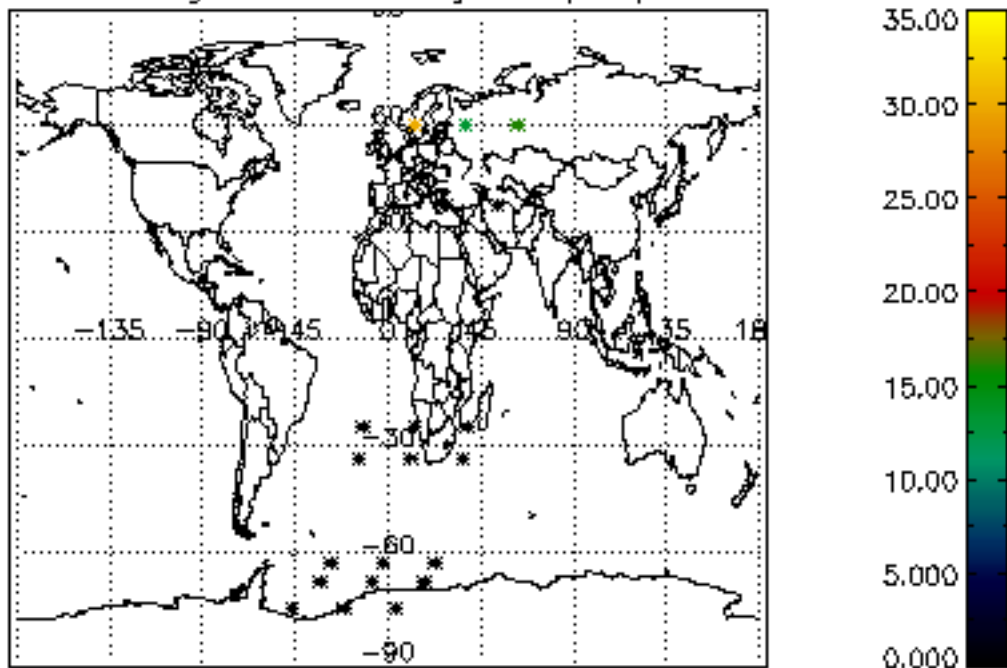
Percentage of star falling outside central band per profile



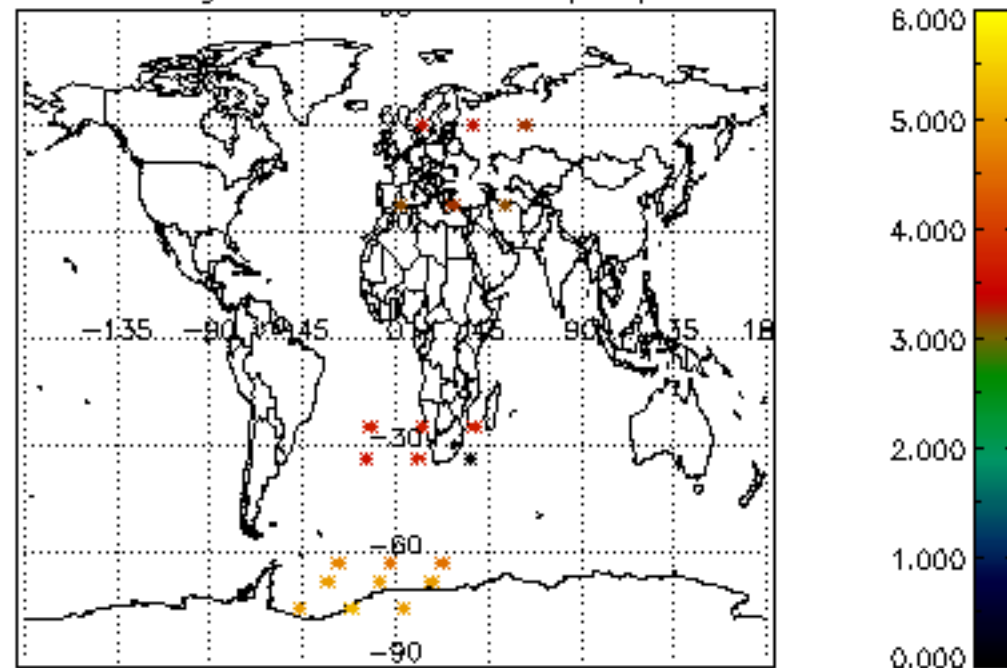
Percentage of saturation errors per profile



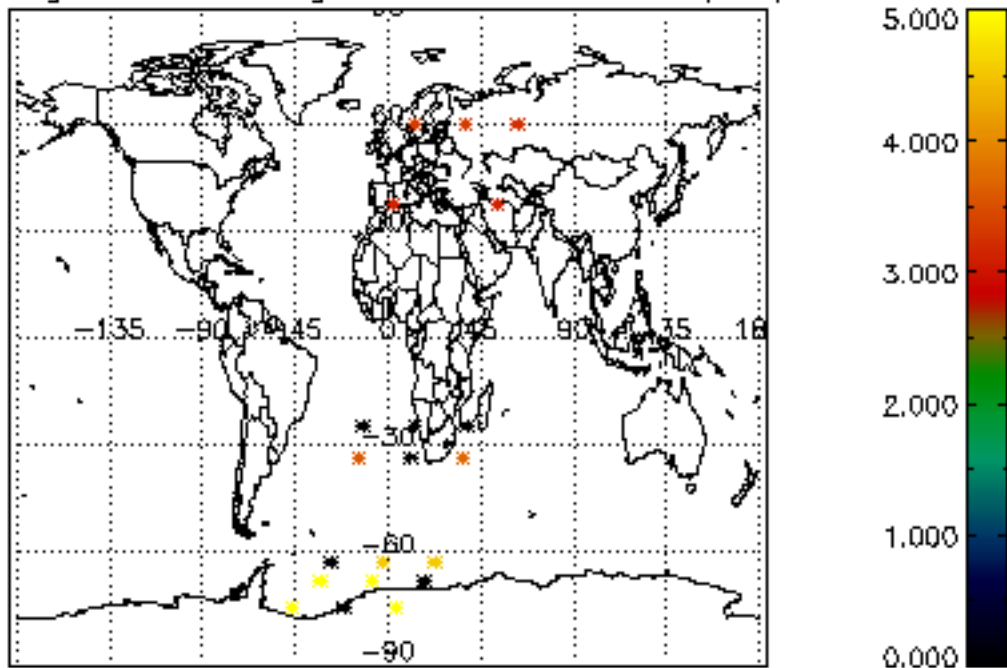
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

