

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	29APR2013 16:40:10
Data source version	GOMOS/6.01
Start time of products	07-12-2010 (07DEC2010 00:00:00)
Stop time of products	08-12-2010 (08DEC2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	375
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

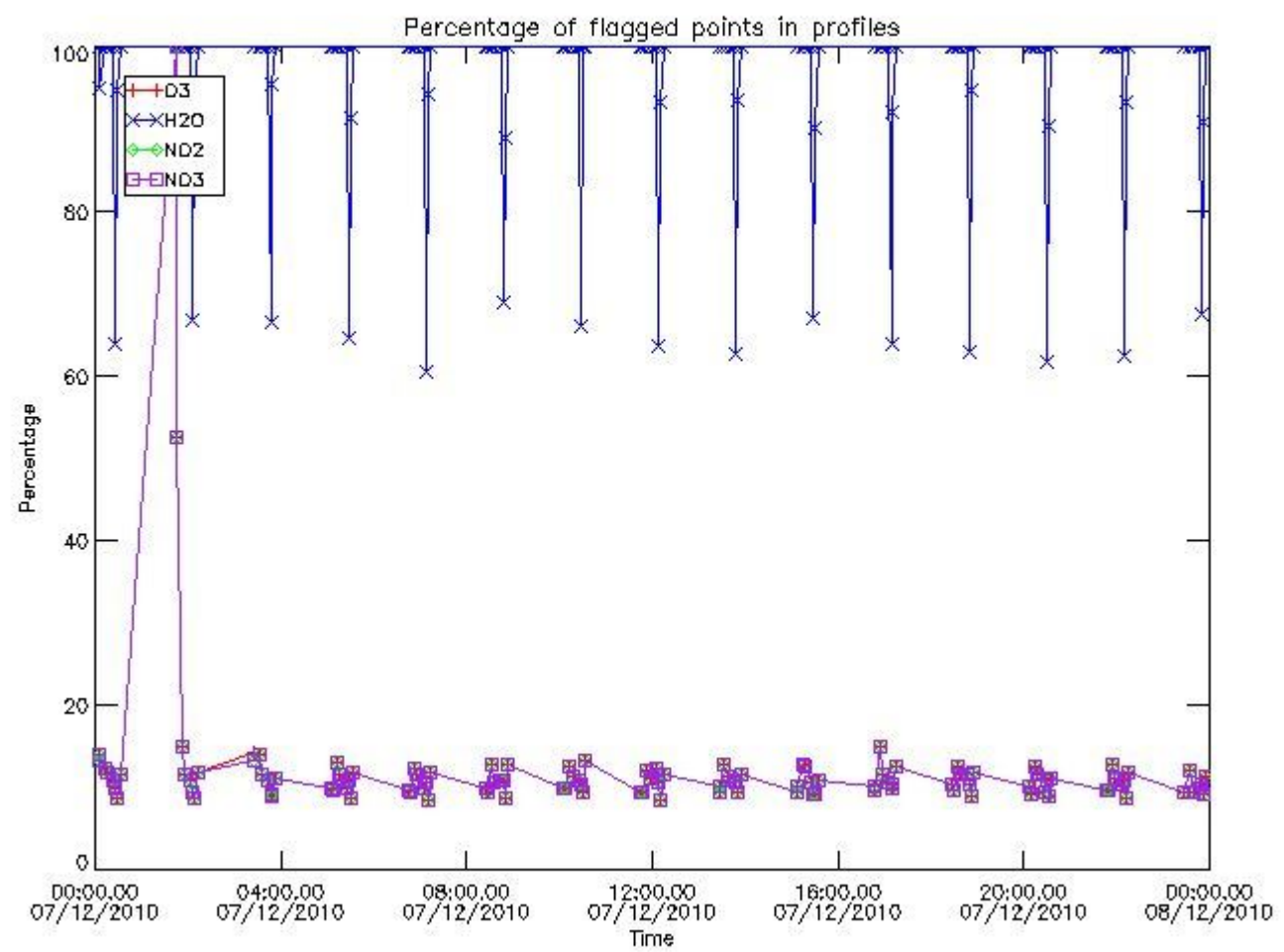
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20101207_000358_000000513097_00145_45849_1419.N1	07-DEC-2010 00:03:58	Dark	50.500	100	4Gam Crv	2.5800	13100.	101	45849	No
2	GOM_NL__2PRFIN20101207_000534_000000503097_00145_45849_1420.N1	07-DEC-2010 00:05:34	Dark	50.000	171	2Eps Crv	3.0010	4250.0	100	45849	No
3	GOM_NL__2PRFIN20101207_001133_000000423097_00145_45849_1421.N1	07-DEC-2010 00:11:33	Dark	41.500	99	Del Cen	2.5750	26000.	83	45849	No
4	GOM_NL__2PRFIN20101207_001454_000000443097_00146_45850_1454.N1	07-DEC-2010 00:14:54	Dark	43.500	113	Mu Vel	2.6920	5000.0	87	45850	No
5	GOM_NL__2PRFIN20101207_002332_000000483097_00146_45850_1455.N1	07-DEC-2010 00:23:32	Dark	47.500	34	Gam2Vel	1.7930	23000.	95	45850	No
6	GOM_NL__2PRFIN20101207_002624_000000523097_00146_45850_1456.N1	07-DEC-2010 00:26:24	Dark	51.500	2	Alp Car	-0.73600	7000.0	103	45850	No
7	GOM_NL__2PRFIN20101207_002838_000000583097_00146_45850_1457.N1	07-DEC-2010 00:28:38	Dark	58.000	117	Pi Pup	2.7060	3800.0	116	45850	No
8	GOM_NL__2PRFIN20101207_003238_000000443097_00146_45850_1458.N1	07-DEC-2010 00:32:38	Dark	44.000	108	Alp Col	2.6520	15200.	88	45850	No
9	GOM_NL__2PRFIN20101207_003759_000000513097_00146_45850_1459.N1	07-DEC-2010 00:37:59	Straylight	50.500	101	11Alp Lep	2.5820	7000.0	101	45850	No
10	GOM_NL__2PRFIN20101207_004119_000000633097_00146_45850_1460.N1	07-DEC-2010 00:41:19	Straylight	63.000	7	19Bet Ori	0.10000	14000.	126	45850	No
11	GOM_NL__2PRFIN20101207_004356_000000563097_00146_45850_1461.N1	07-DEC-2010 00:43:56	Straylight	56.000	30	46Eps Ori	1.6940	30000.	112	45850	No
12	GOM_NL__2PRFIN20101207_004628_000000573097_00146_45850_1462.N1	07-DEC-2010 00:46:28	Twi_and_stray	57.000	27	24Gam Ori	1.6360	26000.	114	45850	No
13	GOM_NL__2PRFIN20101207_004858_000000543097_00146_45850_1463.N1	07-DEC-2010 00:48:58	Bright	54.000	13	87Alp Tau	0.86700	3800.0	108	45850	No
14	GOM_NL__2PRFIN20101207_005305_000000353097_00146_45850_1464.N1	07-DEC-2010 00:53:05	Bright	35.000	150	44Zet Per	2.8900	28000.	70	45850	No
15	GOM_NL__2PRFIN20101207_005428_000000443097_00146_45850_1465.N1	07-DEC-2010 00:54:28	Bright	43.500	114	31ot Aur	2.6930	4600.0	87	45850	No
16	GOM_NL__2PRFIN20101207_005733_000000373097_00146_45850_1466.N1	07-DEC-2010 00:57:33	Bright	36.500	175	39Del Per	3.0100	19400.	73	45850	No
17	GOM_NL__2PRFIN20101207_010009_000000483097_00146_45850_1467.N1	07-DEC-2010 01:00:09	Bright	48.000	42	34Bet Aur	1.9000	10200.	96	45850	No
18	GOM_NL__2PRFIN20101207_011512_000000473097_00146_45850_1468.N1	07-DEC-2010 01:15:12	Bright	46.500	36	50Alp UMa	1.8000	6300.0	93	45850	No
19	GOM_NL__2PRFIN20101207_011644_000000483097_00146_45850_1469.N1	07-DEC-2010 01:16:44	Bright	48.000	82	48Bet UMa	2.3650	10600.	96	45850	No
20	GOM_NL__2PRFIN20101207_011848_000000423097_00146_45850_1470.N1	07-DEC-2010 01:18:48	Bright	41.500	32	77Eps UMa	1.7630	11000.	83	45850	No
21	GOM_NL__2PRFIN20101207_012103_000000373097_00146_45850_1471.N1	07-DEC-2010 01:21:03	Bright	37.000	39	85Eta UMa	1.8540	24000.	74	45850	No
22	GOM_NL__2PRFIN20101207_012434_000000413097_00146_45850_1472.N1	07-DEC-2010 01:24:34	Bright	41.000	152	12Alp2CVn	2.8900	11000.	82	45850	No
23	GOM_NL__2PRFIN20101207_013015_000000383097_00146_45850_1473.N1	07-DEC-2010 01:30:15	Bright	37.500	111	8Eta Boo	2.6800	6000.0	75	45850	No
24	GOM_NL__2PRFIN20101207_013335_000000433097_00146_45850_1474.N1	07-DEC-2010 01:33:35	Bright	43.000	138	47Eps Vir	2.8280	4700.0	86	45850	No
25	GOM_NL__2PRFIN20101207_013815_000000513097_00146_45850_1475.N1	07-DEC-2010 01:38:15	Bright	51.000	121	29Gam Vir	2.7400	7200.0	102	45850	No
26	GOM_NL__2PRFIN20101207_014413_000000513097_00146_45850_1476.N1	07-DEC-2010 01:44:13	Dark	50.500	100	4Gam Crv	2.5800	13100.	101	45850	No
27	GOM_NL__2PRFIN20101207_014549_000000493097_00146_45850_1477.N1	07-DEC-2010 01:45:49	Dark	49.000	171	2Eps Crv	3.0010	4250.0	98	45850	No
28	GOM_NL__2PRFIN20101207_015148_000000413097_00146_45850_1478.N1	07-DEC-2010 01:51:48	Dark	41.000	99	Del Cen	2.5750	26000.	82	45850	No
29	GOM_NL__2PRFIN20101207_015509_000000453097_00147_45851_1496.N1	07-DEC-2010 01:55:09	Dark	44.500	113	Mu Vel	2.6920	5000.0	89	45851	No
30	GOM_NL__2PRFIN20101207_020347_000000473097_00147_45851_1497.N1	07-DEC-2010 02:03:47	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	45851	No
31	GOM_NL__2PRFIN20101207_020638_000000553097_00147_45851_1498.N1	07-DEC-2010 02:06:38	Dark	54.500	2	Alp Car	-0.73600	7000.0	109	45851	No
32	GOM_NL__2PRFIN20101207_020853_000000593097_00147_45851_1499.N1	07-DEC-2010 02:08:53	Dark	59.000	117	Pi Pup	2.7060	3800.0	118	45851	No
33	GOM_NL__2PRFIN20101207_021253_000000433097_00147_45851_1500.N1	07-DEC-2010 02:12:53	Dark	43.000	108	Alp Col	2.6520	15200.	86	45851	No
34	GOM_NL__2PRFIN20101207_021813_000000493097_00147_45851_1501.N1	07-DEC-2010 02:18:13	Straylight	49.000	101	11Alp Lep	2.5820	7000.0	98	45851	No
35	GOM_NL__2PRFIN20101207_022133_000000593097_00147_45851_1502.N1	07-DEC-2010 02:21:33	Straylight	58.500	7	19Bet Ori	0.10000	14000.	117	45851	No
36	GOM_NL__2PRFIN20101207_022642_000000563097_00147_45851_1503.N1	07-DEC-2010 02:26:42	Twi_and_stray	55.500	27	24Gam Ori	1.6360	26000.	111	45851	No
37	GOM_NL__2PRFIN20101207_022911_000000593097_00147_45851_1504.N1	07-DEC-2010 02:29:11	Bright	59.000	13	87Alp Tau	0.86700	3800.0	118	45851	No
38	GOM_NL__2PRFIN20101207_023319_000000383097_00147_45851_1505.N1	07-DEC-2010 02:33:19	Bright	37.500	150	44Zet Per	2.8900	28000.	75	45851	No
39	GOM_NL__2PRFIN20101207_023442_000000433097_00147_45851_1506.N1	07-DEC-2010 02:34:42	Bright	42.500	114	31ot Aur	2.6930	4600.0	85	45851	No
40	GOM_NL__2PRFIN20101207_023747_000000363097_00147_45851_1507.N1	07-DEC-2010 02:37:47	Bright	36.000	175	39Del Per	3.0100	19400.	72	45851	No
41	GOM_NL__2PRFIN20101207_024022_000000473097_00147_45851_1508.N1	07-DEC-2010 02:40:22	Bright	46.500	42	34Bet Aur	1.9000	10200.	93	45851	No
42	GOM_NL__2PRFIN20101207_025525_000000473097_00147_45851_1509.N1	07-DEC-2010 02:55:25	Bright	46.500	36	50Alp UMa	1.8000	6300.0	93	45851	No

338	GOM_NL__2PRFIN20101207_212723_000000403097_00158_45862_2513.N1	07-DEC-2010 21:27:23	Bright	39.500	152	12Alp2CVn	2.8900	11000.	79	45862	No
339	GOM_NL__2PRFIN20101207_213306_000000363097_00158_45862_2514.N1	07-DEC-2010 21:33:06	Bright	36.000	111	8Eta Boo	2.6800	6000.0	72	45862	No
340	GOM_NL__2PRFIN20101207_213630_000000453097_00158_45862_2515.N1	07-DEC-2010 21:36:30	Bright	45.000	138	47Eps Vir	2.8280	4700.0	90	45862	No
341	GOM_NL__2PRFIN20101207_214112_000000553097_00158_45862_2516.N1	07-DEC-2010 21:41:12	Twilight	54.500	121	29Gam Vir	2.7400	7200.0	109	45862	No
342	GOM_NL__2PRFIN20101207_214547_000000443097_00158_45862_2517.N1	07-DEC-2010 21:45:47	Twilight	43.500	169	46Gam Hya	2.9910	4700.0	87	45862	No
343	GOM_NL__2PRFIN20101207_214714_000000533097_00158_45862_2518.N1	07-DEC-2010 21:47:14	Dark	52.500	100	4Gam Crv	2.5800	13100.	105	45862	No
344	GOM_NL__2PRFIN20101207_214850_000000543097_00158_45862_2519.N1	07-DEC-2010 21:48:50	Dark	53.500	171	2Eps Crv	3.0010	4250.0	107	45862	No
345	GOM_NL__2PRFIN20101207_215444_000000403097_00158_45862_2520.N1	07-DEC-2010 21:54:44	Dark	40.000	99	Del Cen	2.5750	26000.	80	45862	No
346	GOM_NL__2PRFIN20101207_215807_000000463097_00159_45863_1878.N1	07-DEC-2010 21:58:07	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	45863	No
347	GOM_NL__2PRFIN20101207_220645_000000493097_00159_45863_1879.N1	07-DEC-2010 22:06:45	Dark	49.000	34	Gam2Vel	1.7930	23000.	98	45863	No
348	GOM_NL__2PRFIN20101207_220932_000000473097_00159_45863_1880.N1	07-DEC-2010 22:09:32	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	45863	No
349	GOM_NL__2PRFIN20101207_221150_000000593097_00159_45863_1881.N1	07-DEC-2010 22:11:50	Dark	59.000	117	Pi Pup	2.7060	3800.0	118	45863	No
350	GOM_NL__2PRFIN20101207_221545_000000443097_00159_45863_1882.N1	07-DEC-2010 22:15:45	Dark	43.500	108	Alp Col	2.6520	15200.	87	45863	No
351	GOM_NL__2PRFIN20101207_222103_000000483097_00159_45863_1883.N1	07-DEC-2010 22:21:03	Straylight	48.000	101	11Alp Lep	2.5820	7000.0	96	45863	No
352	GOM_NL__2PRFIN20101207_222422_000000563097_00159_45863_1884.N1	07-DEC-2010 22:24:22	Straylight	55.500	7	19Bet Ori	0.10000	14000.	111	45863	No
353	GOM_NL__2PRFIN20101207_222656_000000543097_00159_45863_1885.N1	07-DEC-2010 22:26:56	Straylight	53.500	30	46Eps Ori	1.6940	30000.	107	45863	No
354	GOM_NL__2PRFIN20101207_222927_000000563097_00159_45863_1886.N1	07-DEC-2010 22:29:27	Twilight	55.500	27	24Gam Ori	1.6360	26000.	111	45863	No
355	GOM_NL__2PRFIN20101207_223158_000000583097_00159_45863_1887.N1	07-DEC-2010 22:31:58	Bright	58.000	13	87Alp Tau	0.86700	3800.0	116	45863	No
356	GOM_NL__2PRFIN20101207_223606_000000373097_00159_45863_1888.N1	07-DEC-2010 22:36:06	Bright	36.500	150	44Zet Per	2.8900	28000.	73	45863	No
357	GOM_NL__2PRFIN20101207_223725_000000433097_00159_45863_1889.N1	07-DEC-2010 22:37:25	Bright	43.000	114	3lot Aur	2.6930	4600.0	86	45863	No
358	GOM_NL__2PRFIN20101207_224034_000000353097_00159_45863_1890.N1	07-DEC-2010 22:40:34	Bright	34.500	175	39Del Per	3.0100	19400.	69	45863	No
359	GOM_NL__2PRFIN20101207_224301_000000463097_00159_45863_1891.N1	07-DEC-2010 22:43:01	Bright	45.500	42	34Bet Aur	1.9000	10200.	91	45863	No
360	GOM_NL__2PRFIN20101207_225809_000000443097_00159_45863_1892.N1	07-DEC-2010 22:58:09	Bright	44.000	36	50Alp UMa	1.8000	6300.0	88	45863	No
361	GOM_NL__2PRFIN20101207_225941_000000483097_00159_45863_1893.N1	07-DEC-2010 22:59:41	Bright	48.000	82	48Bet UMa	2.3650	10600.	96	45863	No
362	GOM_NL__2PRFIN20101207_230149_000000383097_00159_45863_1894.N1	07-DEC-2010 23:01:49	Bright	37.500	32	77Eps UMa	1.7630	11000.	75	45863	No
363	GOM_NL__2PRFIN20101207_230406_000000363097_00159_45863_1895.N1	07-DEC-2010 23:04:06	Bright	35.500	39	85Eta UMa	1.8540	24000.	71	45863	No
364	GOM_NL__2PRFIN20101207_230737_000000423097_00159_45863_1896.N1	07-DEC-2010 23:07:37	Bright	42.000	152	12Alp2CVn	2.8900	11000.	84	45863	No
365	GOM_NL__2PRFIN20101207_231321_000000373097_00159_45863_1897.N1	07-DEC-2010 23:13:21	Bright	36.500	111	8Eta Boo	2.6800	6000.0	73	45863	No
366	GOM_NL__2PRFIN20101207_231644_000000463097_00159_45863_1898.N1	07-DEC-2010 23:16:44	Bright	46.000	138	47Eps Vir	2.8280	4700.0	92	45863	No
367	GOM_NL__2PRFIN20101207_232127_000000523097_00159_45863_1899.N1	07-DEC-2010 23:21:27	Twilight	52.000	121	29Gam Vir	2.7400	7200.0	104	45863	No
368	GOM_NL__2PRFIN20101207_232601_000000463097_00159_45863_1900.N1	07-DEC-2010 23:26:01	Twilight	45.500	169	46Gam Hya	2.9910	4700.0	91	45863	No
369	GOM_NL__2PRFIN20101207_232729_000000543097_00159_45863_1901.N1	07-DEC-2010 23:27:29	Dark	54.000	100	4Gam Crv	2.5800	13100.	108	45863	No
370	GOM_NL__2PRFIN20101207_233458_000000423097_00159_45863_1902.N1	07-DEC-2010 23:34:58	Dark	42.000	99	Del Cen	2.5750	26000.	84	45863	No
371	GOM_NL__2PRFIN20101207_233822_000000553097_00160_45864_2073.N1	07-DEC-2010 23:38:22	Dark	54.500	113	Mu Vel	2.6920	5000.0	109	45864	No
372	GOM_NL__2PRFIN20101207_234700_000000523097_00160_45864_2074.N1	07-DEC-2010 23:47:00	Dark	51.500	34	Gam2Vel	1.7930	23000.	103	45864	No
373	GOM_NL__2PRFIN20101207_234947_000000503097_00160_45864_2075.N1	07-DEC-2010 23:49:47	Dark	49.500	2	Alp Car	-0.73600	7000.0	99	45864	No
374	GOM_NL__2PRFIN20101207_235205_000000553097_00160_45864_2076.N1	07-DEC-2010 23:52:05	Dark	55.000	117	Pi Pup	2.7060	3800.0	110	45864	No
375	GOM_NL__2PRFIN20101207_235600_000000453097_00160_45864_2077.N1	07-DEC-2010 23:56:00	Dark	45.000	108	Alp Col	2.6520	15200.	90	45864	No

3. Quality information per product

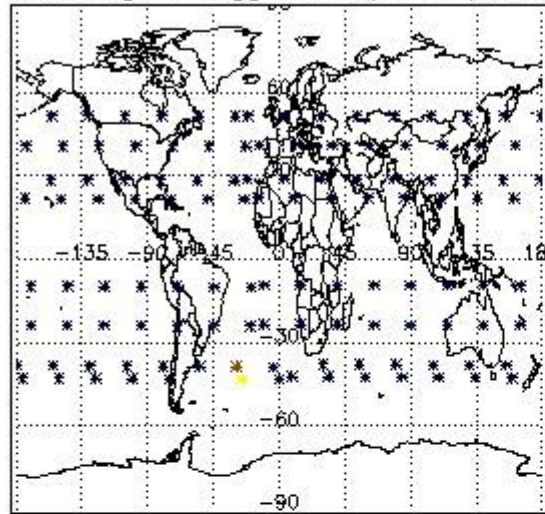
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

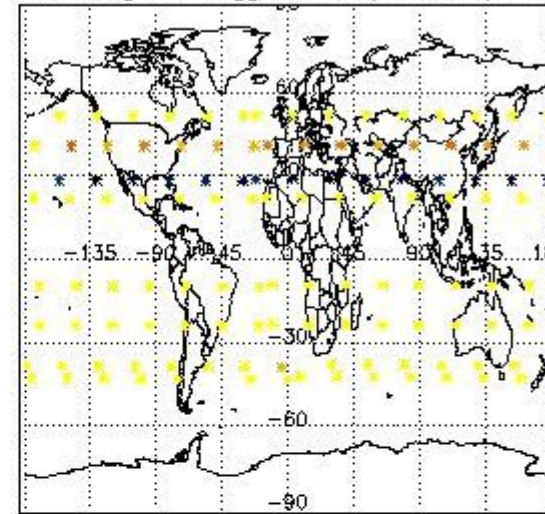


3.2 Plot quality information per product (world map)

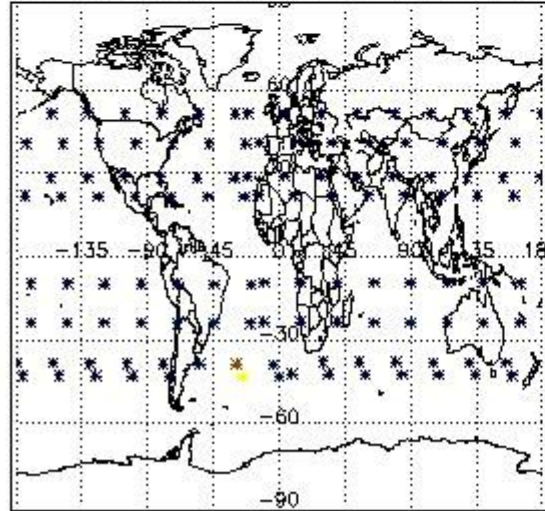
Percentage of flagged data per O3 profile



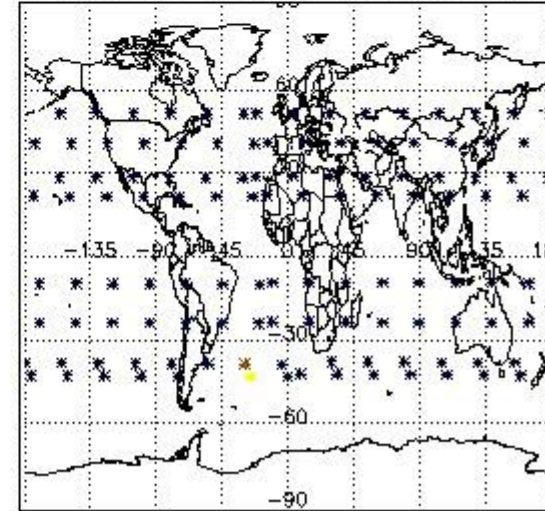
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

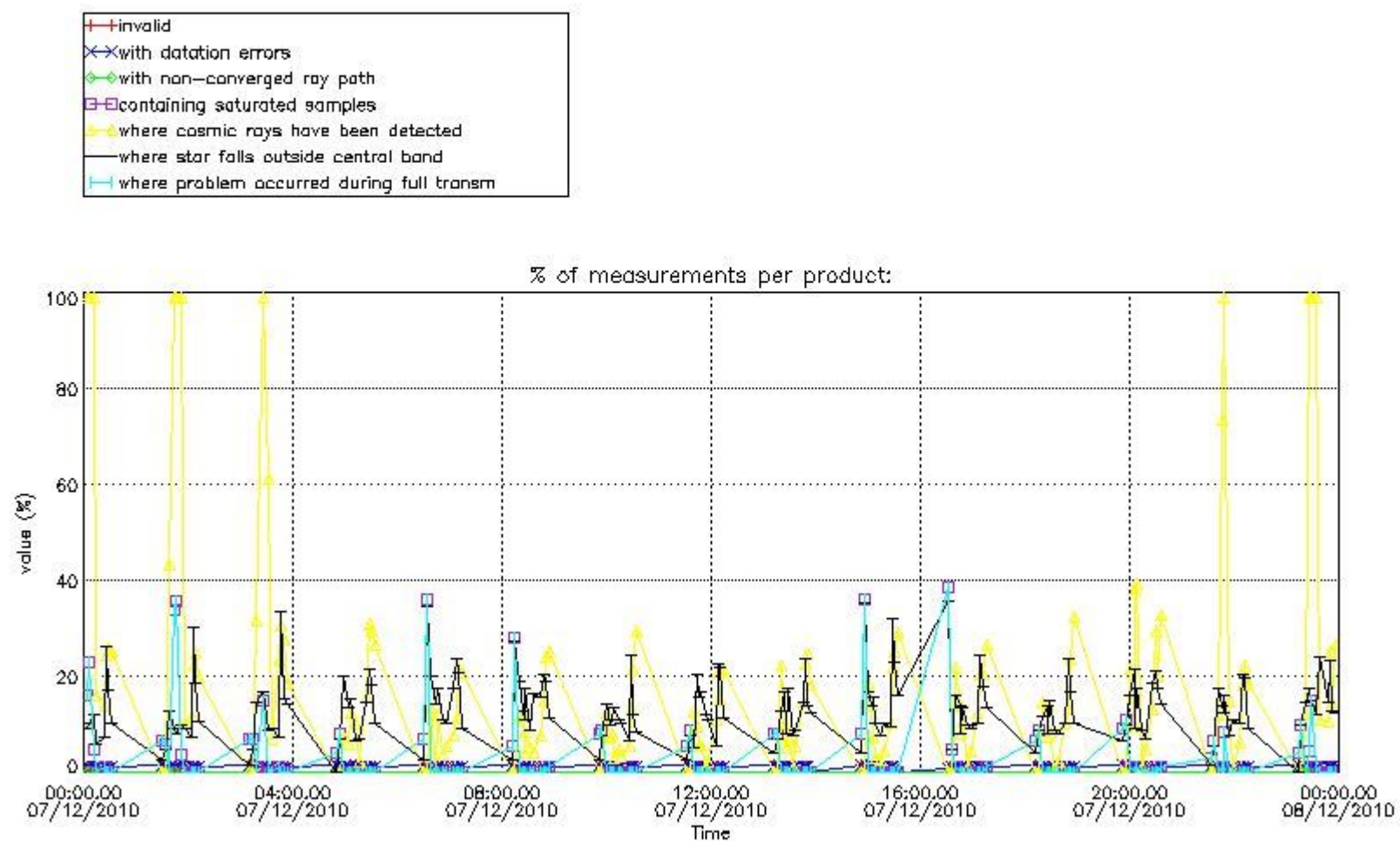


4. Level 1 quality information per product

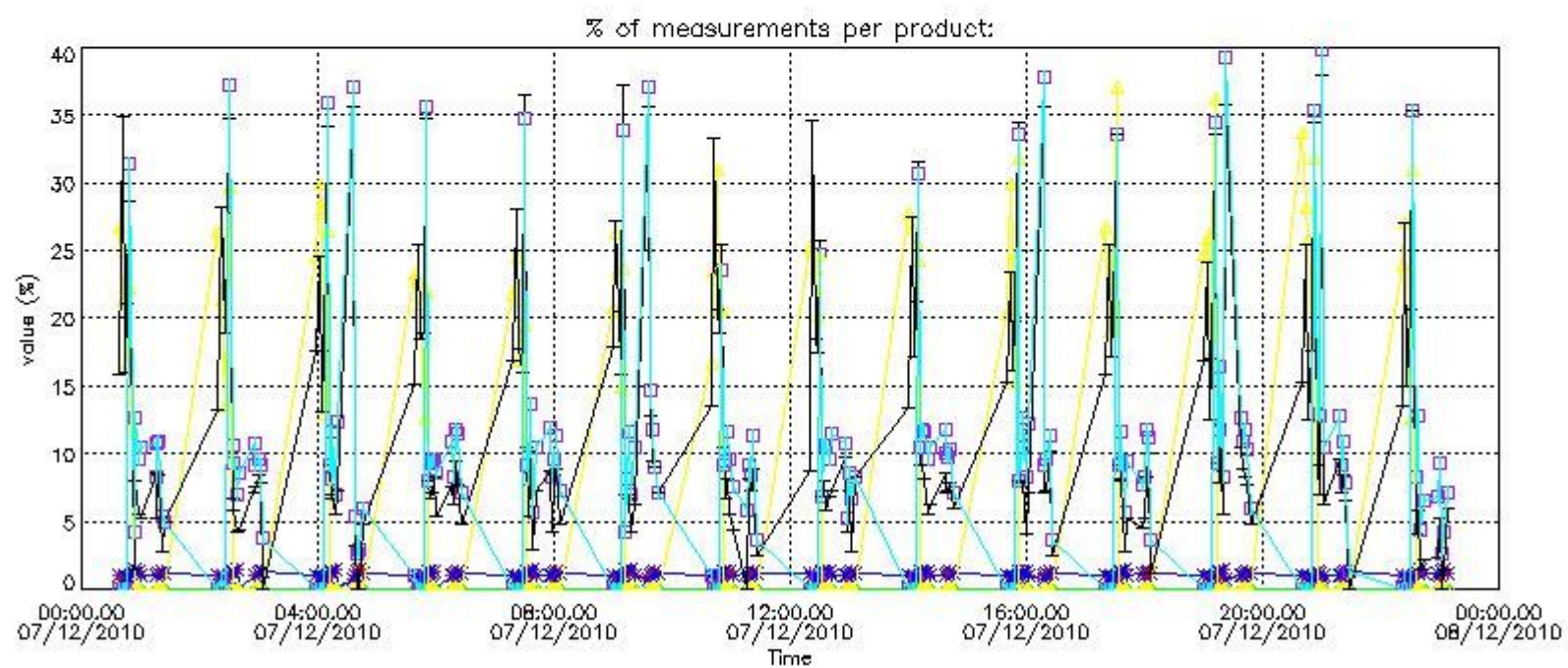
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

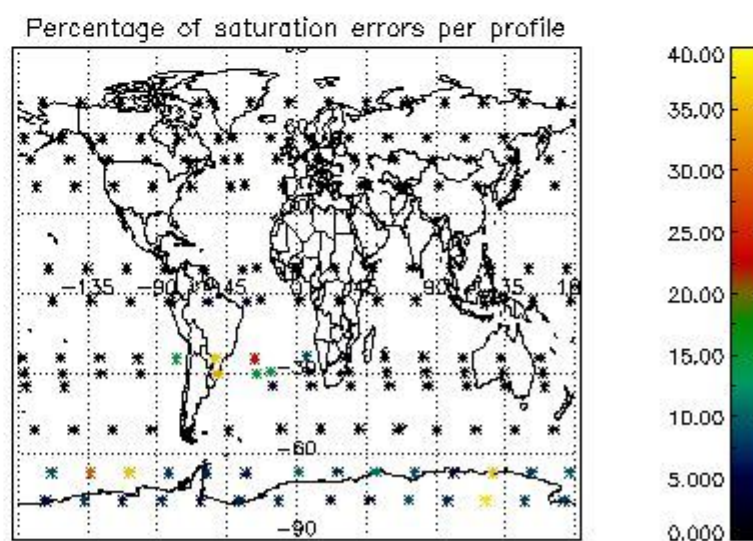
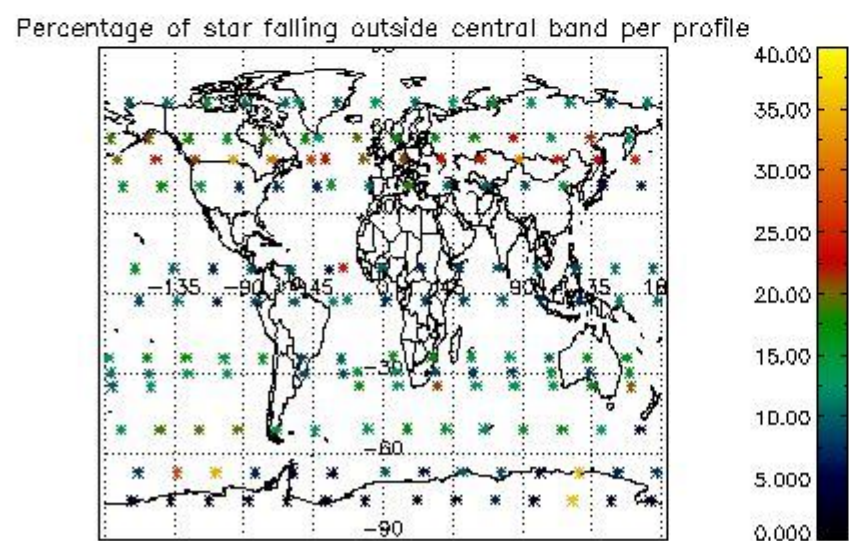
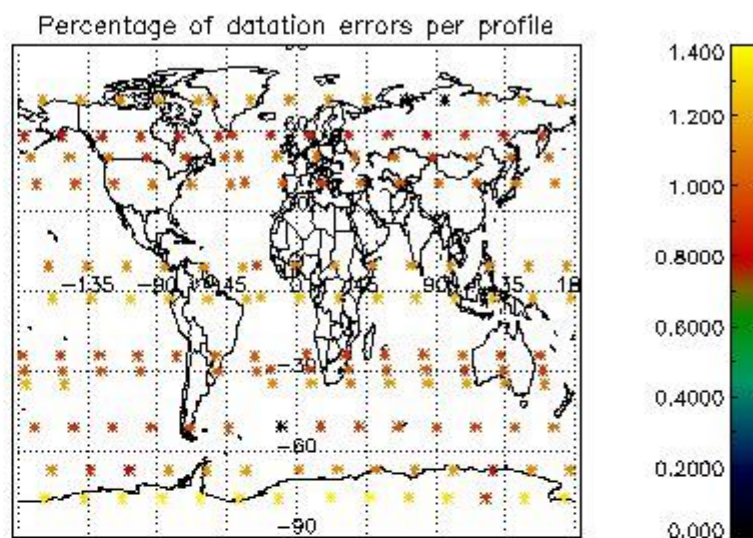
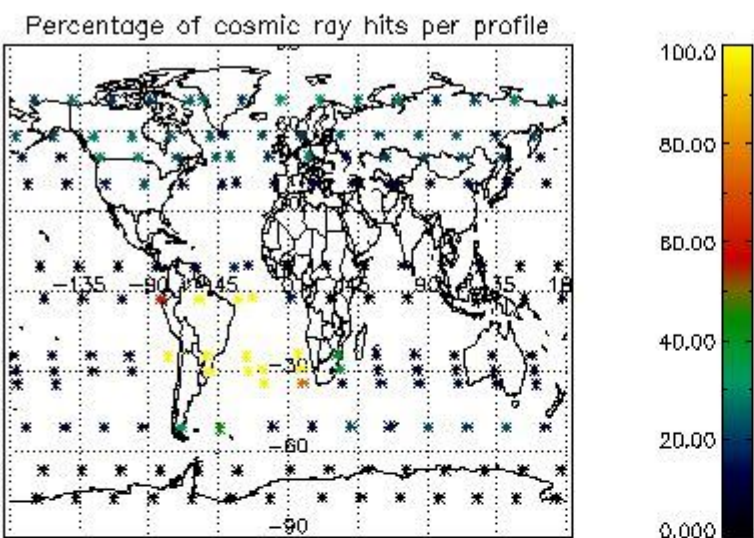


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

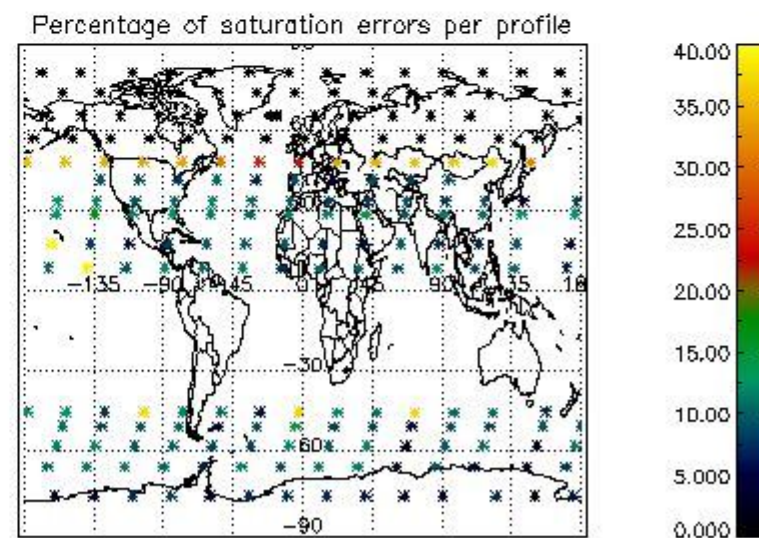
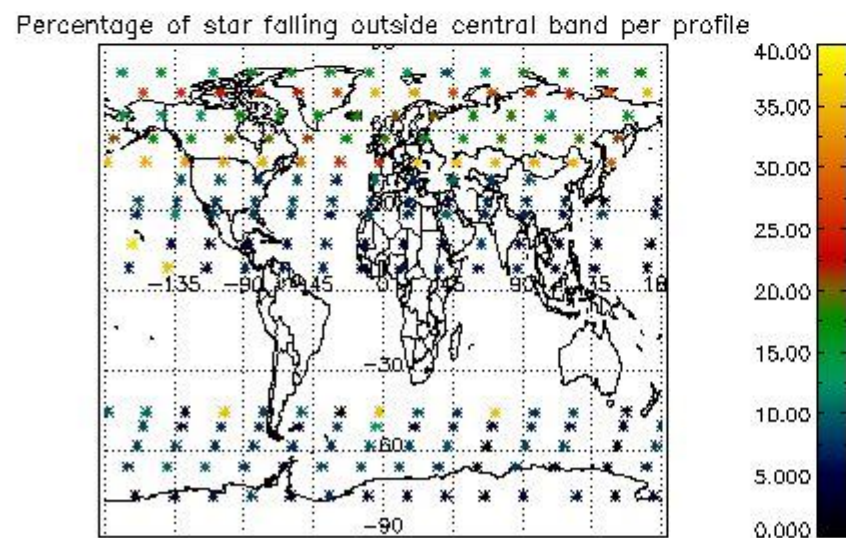
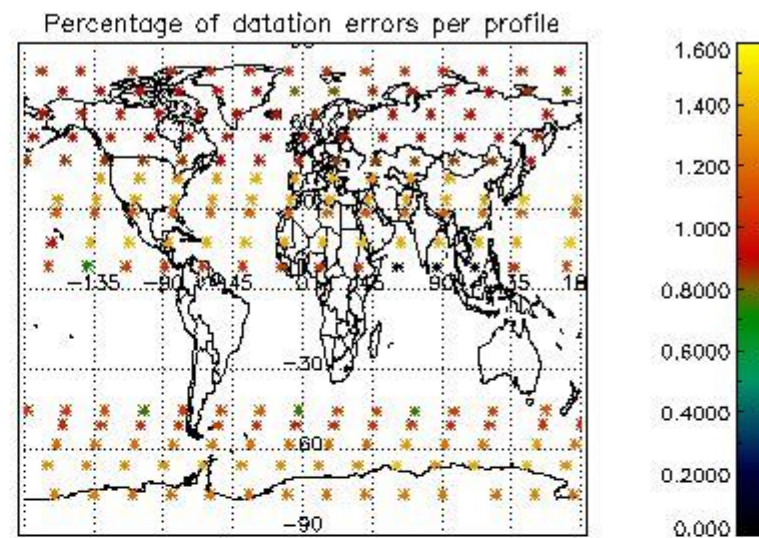
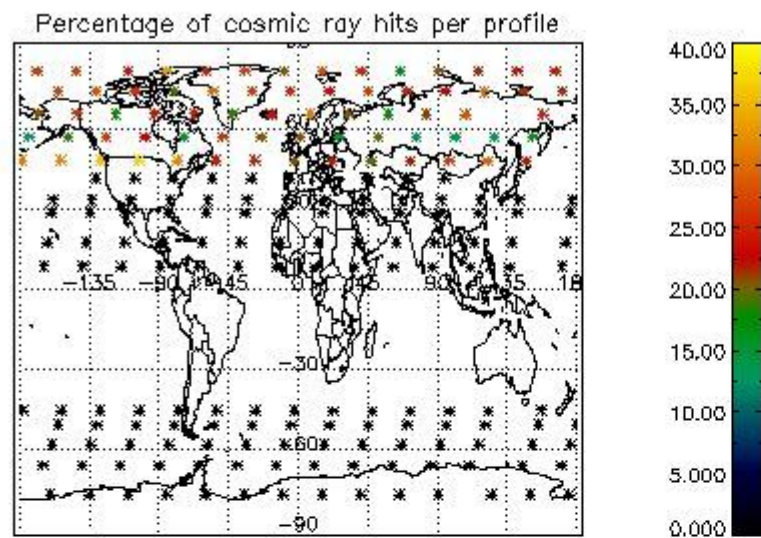


4.2 Plot quality information per product coming from level 1b processing (world map)

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

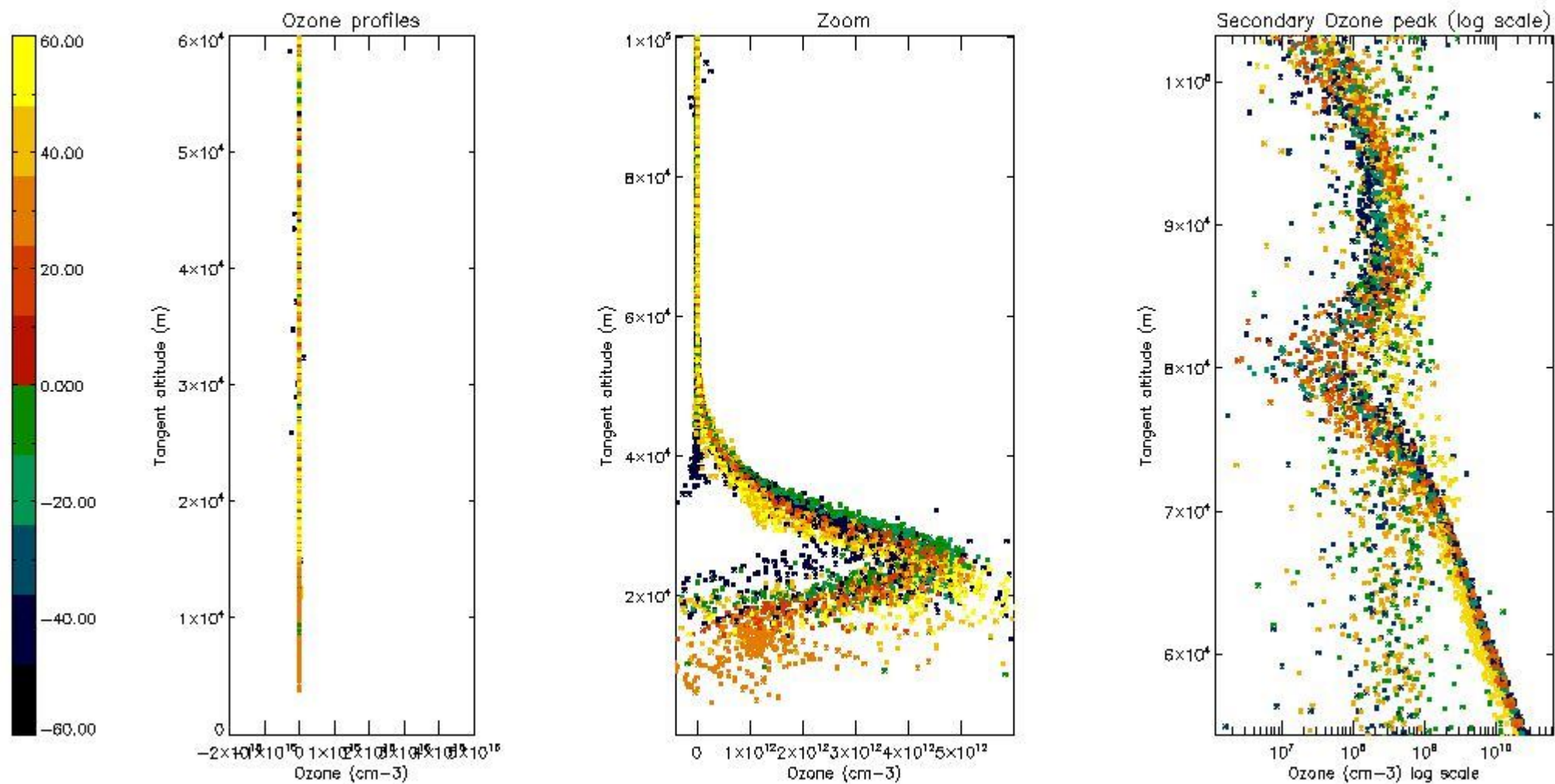
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	33
STD < 20	15

STD < 10	12
STD < 5	7

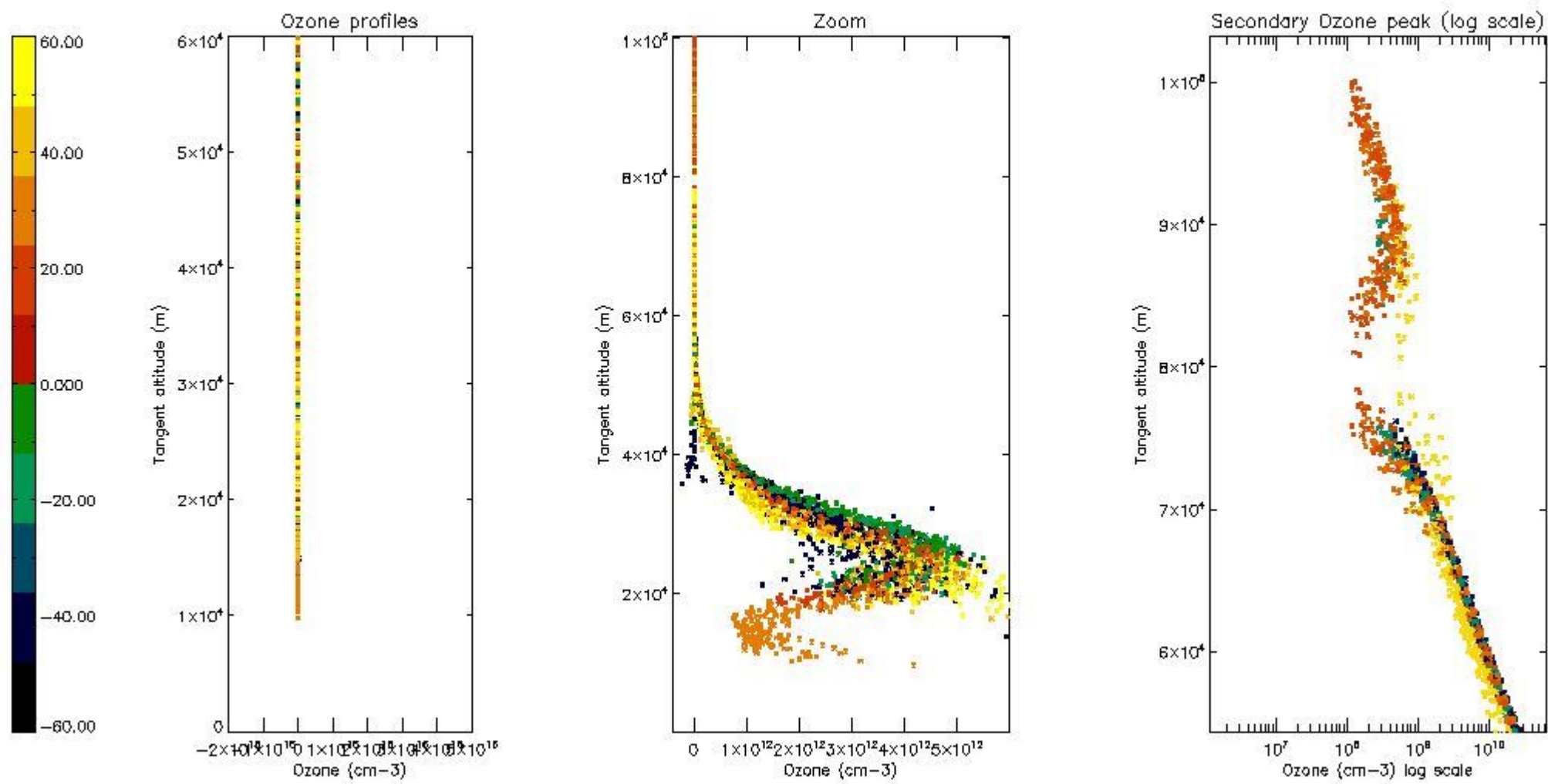
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



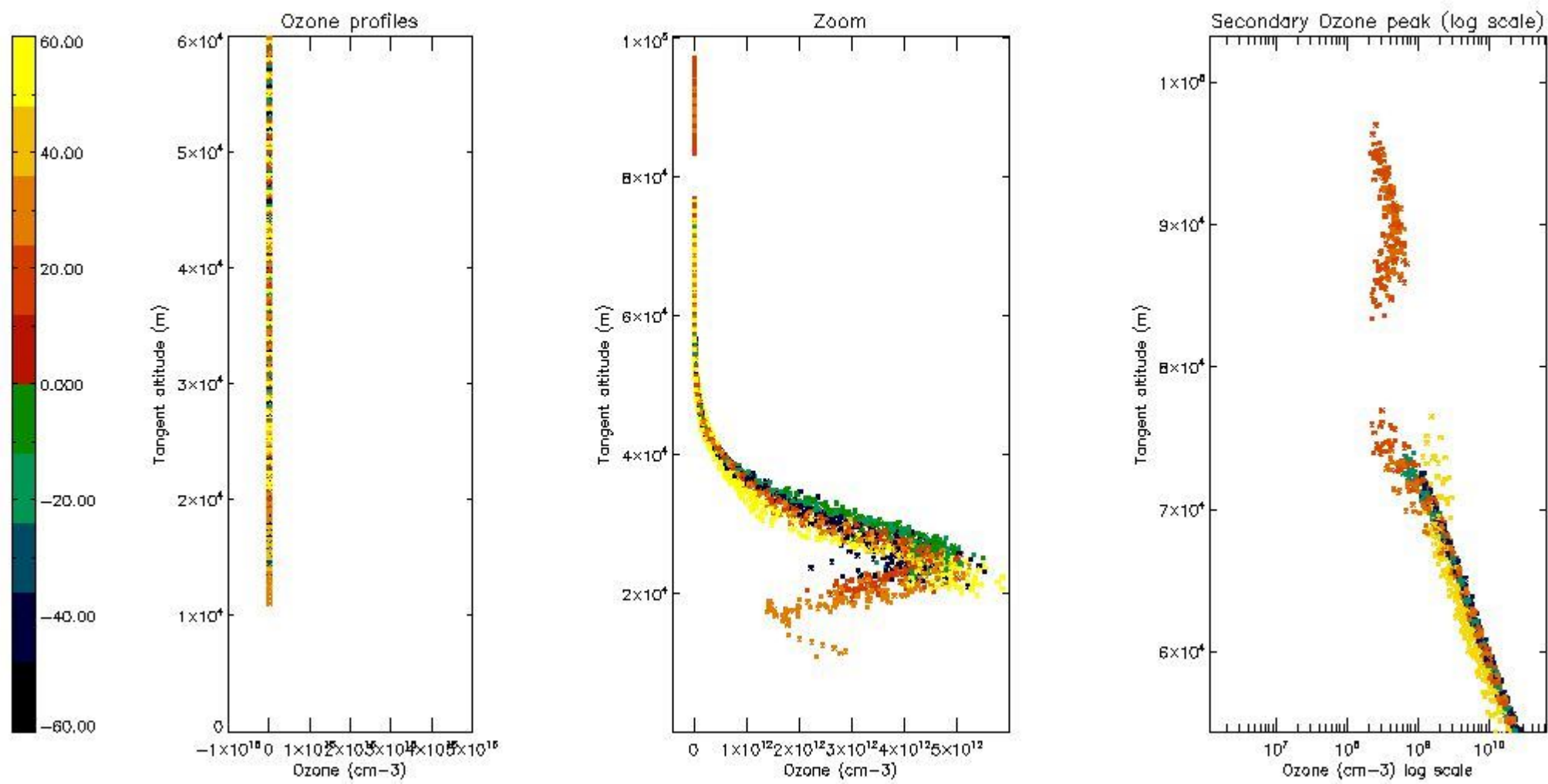
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



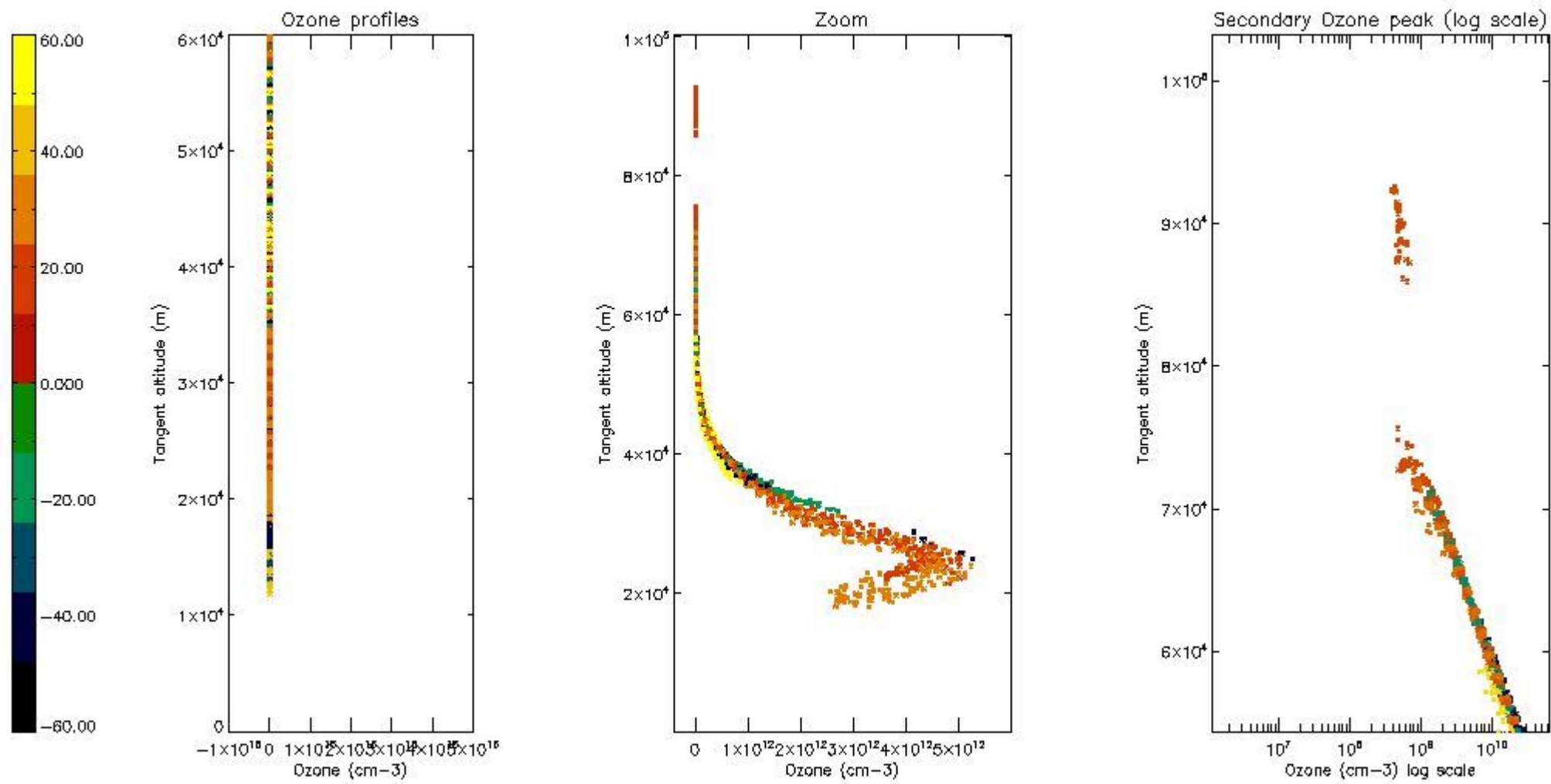
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



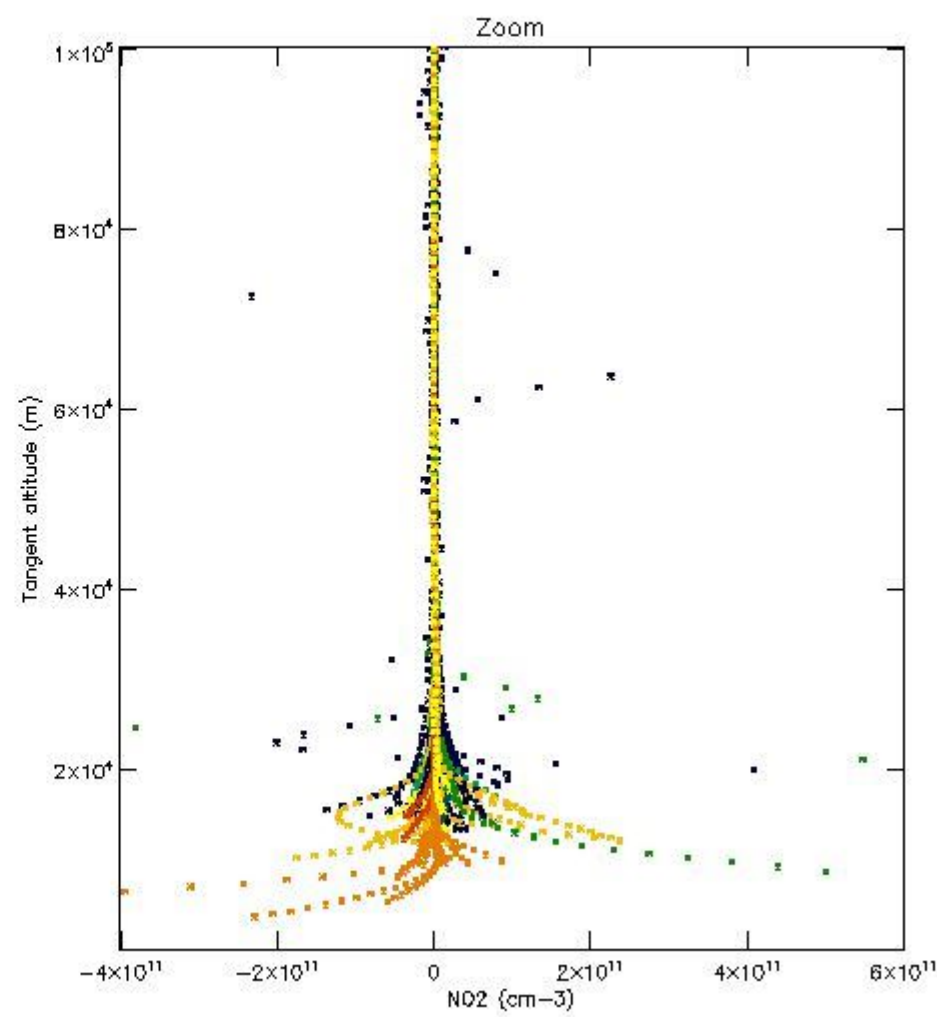
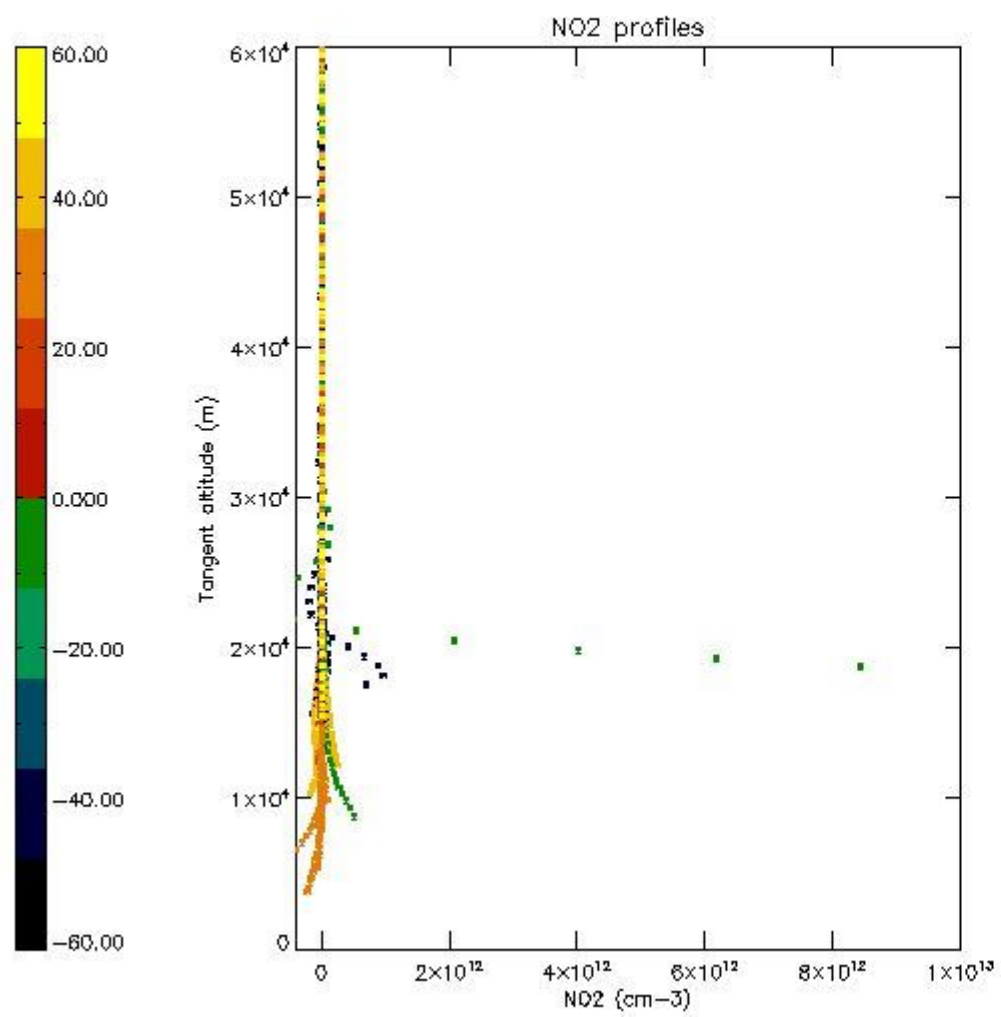
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



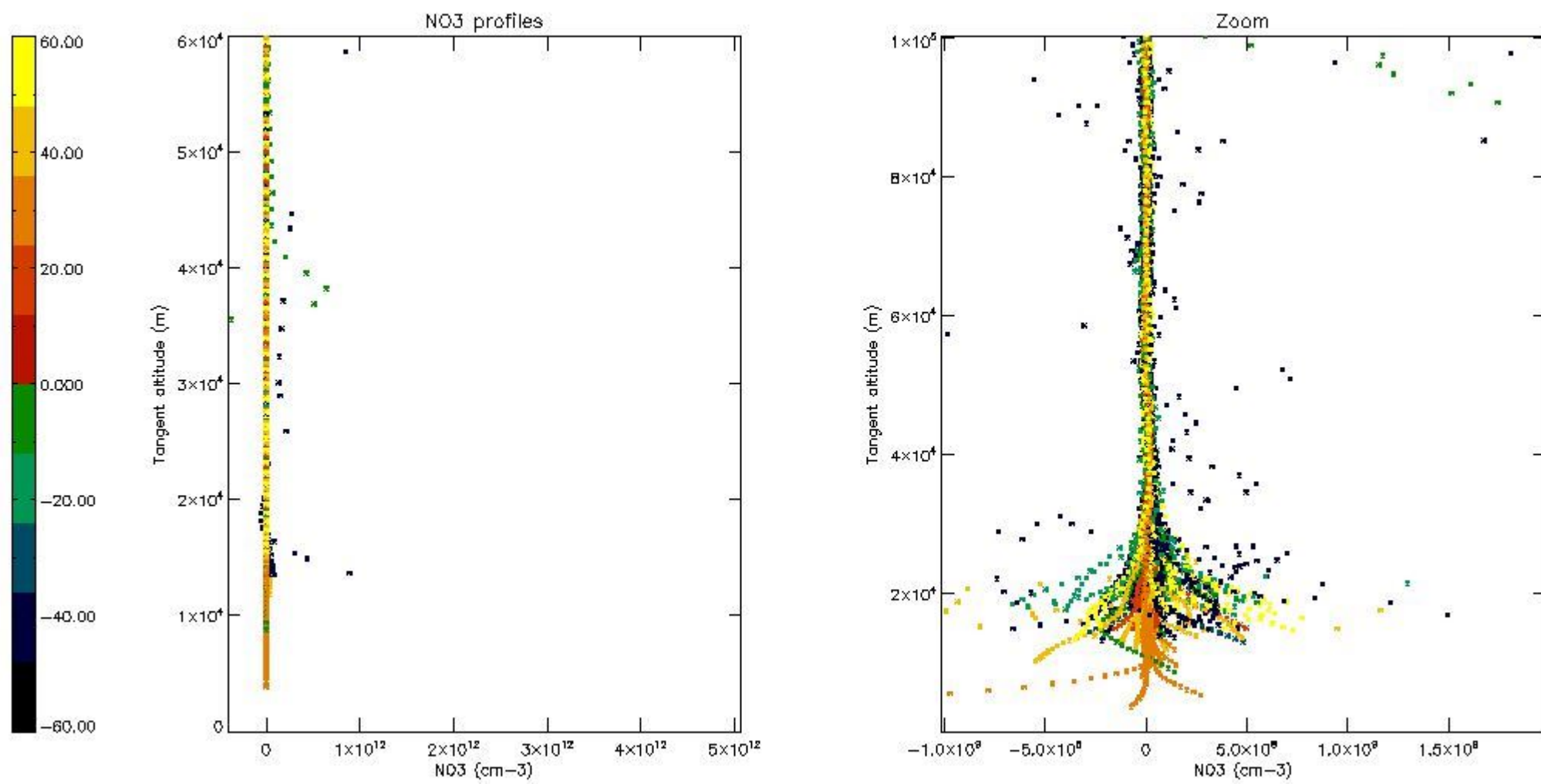
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



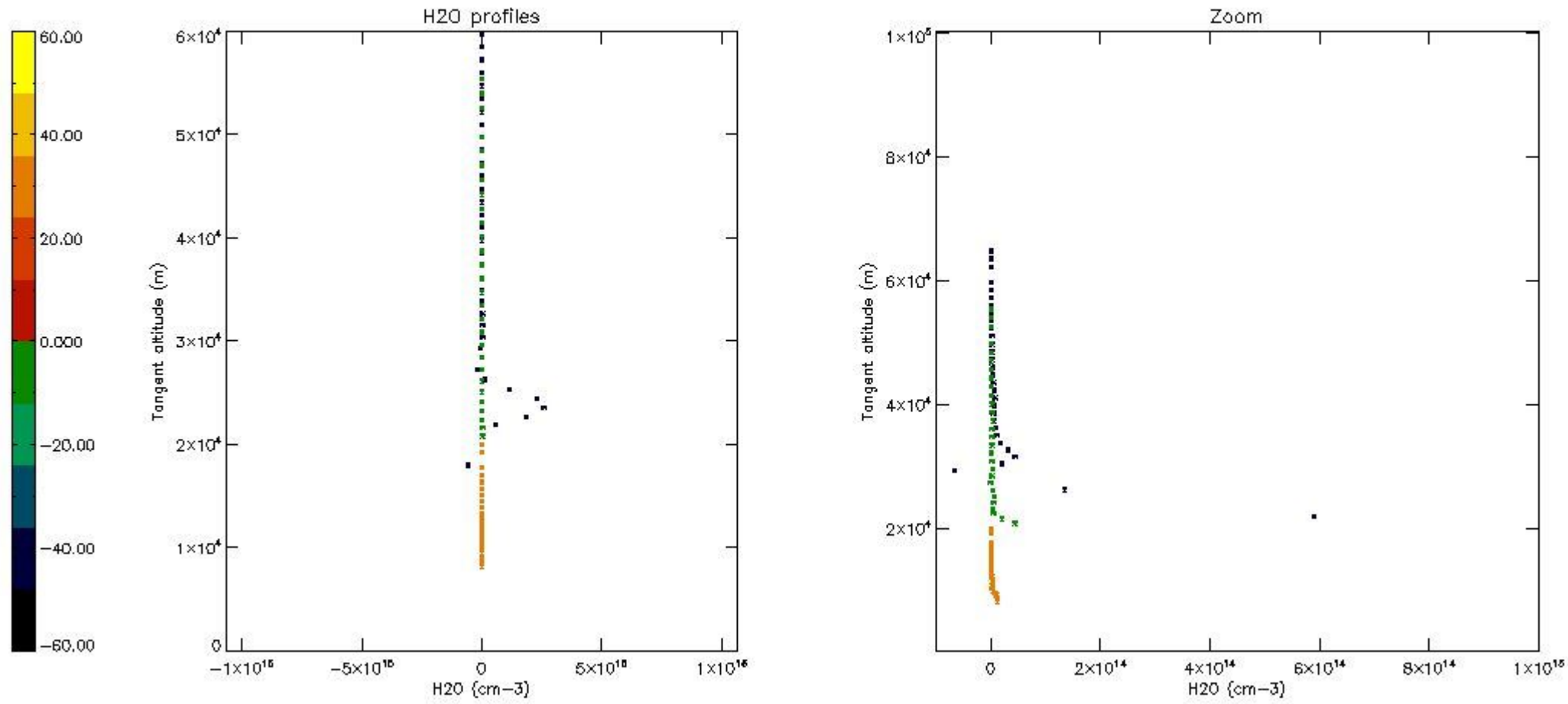
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



5.8 Plot H2O profiles for all STD (only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors)

The colorbar represents the latitude.



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

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	07-DEC-2010 00:03:58
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	07-DEC-2010 00:03:58
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	07-DEC-2010 00:03:58

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

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

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

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

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

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

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

[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	29APR2013 16:40:10
Data source version	GOMOS/6.01
Start time of products	07-12-2010 (07DEC2010 00:00:00)
Stop time of products	08-12-2010 (08DEC2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	375
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__2PRFIN20101207_000358_000000513097_00145_45849_1419.N1	07-DEC-2010 00:03:58	Dark	50.500	100	4Gam Crv	2.5800	13100.	101	45849	No
2	GOM_NL__2PRFIN20101207_000534_000000503097_00145_45849_1420.N1	07-DEC-2010 00:05:34	Dark	50.000	171	2Eps Crv	3.0010	4250.0	100	45849	No
3	GOM_NL__2PRFIN20101207_001133_000000423097_00145_45849_1421.N1	07-DEC-2010 00:11:33	Dark	41.500	99	Del Cen	2.5750	26000.	83	45849	No
4	GOM_NL__2PRFIN20101207_001454_000000443097_00146_45850_1454.N1	07-DEC-2010 00:14:54	Dark	43.500	113	Mu Vel	2.6920	5000.0	87	45850	No
5	GOM_NL__2PRFIN20101207_002332_000000483097_00146_45850_1455.N1	07-DEC-2010 00:23:32	Dark	47.500	34	Gam2Vel	1.7930	23000.	95	45850	No
6	GOM_NL__2PRFIN20101207_002624_000000523097_00146_45850_1456.N1	07-DEC-2010 00:26:24	Dark	51.500	2	Alp Car	-0.73600	7000.0	103	45850	No
7	GOM_NL__2PRFIN20101207_002838_000000583097_00146_45850_1457.N1	07-DEC-2010 00:28:38	Dark	58.000	117	Pi Pup	2.7060	3800.0	116	45850	No
8	GOM_NL__2PRFIN20101207_003238_000000443097_00146_45850_1458.N1	07-DEC-2010 00:32:38	Dark	44.000	108	Alp Col	2.6520	15200.	88	45850	No
9	GOM_NL__2PRFIN20101207_003759_000000513097_00146_45850_1459.N1	07-DEC-2010 00:37:59	Straylight	50.500	101	11Alp Lep	2.5820	7000.0	101	45850	No
10	GOM_NL__2PRFIN20101207_004119_000000633097_00146_45850_1460.N1	07-DEC-2010 00:41:19	Straylight	63.000	7	19Bet Ori	0.10000	14000.	126	45850	No
11	GOM_NL__2PRFIN20101207_004356_000000563097_00146_45850_1461.N1	07-DEC-2010 00:43:56	Straylight	56.000	30	46Eps Ori	1.6940	30000.	112	45850	No
12	GOM_NL__2PRFIN20101207_004628_000000573097_00146_45850_1462.N1	07-DEC-2010 00:46:28	Twilight_stray	57.000	27	24Gam Ori	1.6360	26000.	114	45850	No
13	GOM_NL__2PRFIN20101207_004858_000000543097_00146_45850_1463.N1	07-DEC-2010 00:48:58	Bright	54.000	13	87Alp Tau	0.86700	3800.0	108	45850	No
14	GOM_NL__2PRFIN20101207_005305_000000353097_00146_45850_1464.N1	07-DEC-2010 00:53:05	Bright	35.000	150	44Zet Per	2.8900	28000.	70	45850	No
15	GOM_NL__2PRFIN20101207_005428_000000443097_00146_45850_1465.N1	07-DEC-2010 00:54:28	Bright	43.500	114	31ot Aur	2.6930	4600.0	87	45850	No
16	GOM_NL__2PRFIN20101207_005733_000000373097_00146_45850_1466.N1	07-DEC-2010 00:57:33	Bright	36.500	175	39Del Per	3.0100	19400.	73	45850	No
17	GOM_NL__2PRFIN20101207_010009_000000483097_00146_45850_1467.N1	07-DEC-2010 01:00:09	Bright	48.000	42	34Bet Aur	1.9000	10200.	96	45850	No
18	GOM_NL__2PRFIN20101207_011512_000000473097_00146_45850_1468.N1	07-DEC-2010 01:15:12	Bright	46.500	36	50Alp UMa	1.8000	6300.0	93	45850	No
19	GOM_NL__2PRFIN20101207_011644_000000483097_00146_45850_1469.N1	07-DEC-2010 01:16:44	Bright	48.000	82	48Bet UMa	2.3650	10600.	96	45850	No
20	GOM_NL__2PRFIN20101207_011848_000000423097_00146_45850_1470.N1	07-DEC-2010 01:18:48	Bright	41.500	32	77Eps UMa	1.7630	11000.	83	45850	No
21	GOM_NL__2PRFIN20101207_012103_000000373097_00146_45850_1471.N1	07-DEC-2010 01:21:03	Bright	37.000	39	85Eta UMa	1.8540	24000.	74	45850	No
22	GOM_NL__2PRFIN20101207_012434_000000413097_00146_45850_1472.N1	07-DEC-2010 01:24:34	Bright	41.000	152	12Alp2CVn	2.8900	11000.	82	45850	No
23	GOM_NL__2PRFIN20101207_013015_000000383097_00146_45850_1473.N1	07-DEC-2010 01:30:15	Bright	37.500	111	8Eta Boo	2.6800	6000.0	75	45850	No
24	GOM_NL__2PRFIN20101207_013335_000000433097_00146_45850_1474.N1	07-DEC-2010 01:33:35	Bright	43.000	138	47Eps Vir	2.8280	4700.0	86	45850	No
25	GOM_NL__2PRFIN20101207_013815_000000513097_00146_45850_1475.N1	07-DEC-2010 01:38:15	Bright	51.000	121	29Gam Vir	2.7400	7200.0	102	45850	No
26	GOM_NL__2PRFIN20101207_014413_000000513097_00146_45850_1476.N1	07-DEC-2010 01:44:13	Dark	50.500	100	4Gam Crv	2.5800	13100.	101	45850	No
27	GOM_NL__2PRFIN20101207_014549_000000493097_00146_45850_1477.N1	07-DEC-2010 01:45:49	Dark	49.000	171	2Eps Crv	3.0010	4250.0	98	45850	No
28	GOM_NL__2PRFIN20101207_015148_000000413097_00146_45850_1478.N1	07-DEC-2010 01:51:48	Dark	41.000	99	Del Cen	2.5750	26000.	82	45850	No
29	GOM_NL__2PRFIN20101207_015509_000000453097_00147_45851_1496.N1	07-DEC-2010 01:55:09	Dark	44.500	113	Mu Vel	2.6920	5000.0	89	45851	No
30	GOM_NL__2PRFIN20101207_020347_000000473097_00147_45851_1497.N1	07-DEC-2010 02:03:47	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	45851	No
31	GOM_NL__2PRFIN20101207_020638_000000553097_00147_45851_1498.N1	07-DEC-2010 02:06:38	Dark	54.500	2	Alp Car	-0.73600	7000.0	109	45851	No
32	GOM_NL__2PRFIN20101207_020853_000000593097_00147_45851_1499.N1	07-DEC-2010 02:08:53	Dark	59.000	117	Pi Pup	2.7060	3800.0	118	45851	No
33	GOM_NL__2PRFIN20101207_021253_000000433097_00147_45851_1500.N1	07-DEC-2010 02:12:53	Dark	43.000	108	Alp Col	2.6520	15200.	86	45851	No
34	GOM_NL__2PRFIN20101207_021813_000000493097_00147_45851_1501.N1	07-DEC-2010 02:18:13	Straylight	49.000	101	11Alp Lep	2.5820	7000.0	98	45851	No
35	GOM_NL__2PRFIN20101207_022133_000000593097_00147_45851_1502.N1	07-DEC-2010 02:21:33	Straylight	58.500	7	19Bet Ori	0.10000	14000.	117	45851	No
36	GOM_NL__2PRFIN20101207_022642_000000563097_00147_45851_1503.N1	07-DEC-2010 02:26:42	Twilight_stray	55.500	27	24Gam Ori	1.6360	26000.	111	45851	No
37	GOM_NL__2PRFIN20101207_022911_000000593097_00147_45851_1504.N1	07-DEC-2010 02:29:11	Bright	59.000	13	87Alp Tau	0.86700	3800.0	118	45851	No
38	GOM_NL__2PRFIN20101207_023319_000000383097_00147_45851_1505.N1	07-DEC-2010 02:33:19	Bright	37.500	150	44Zet Per	2.8900	28000.	75	45851	No
39	GOM_NL__2PRFIN20101207_023442_000000433097_00147_45851_1506.N1	07-DEC-2010 02:34:42	Bright	42.500	114	31ot Aur	2.6930	4600.0	85	45851	No
40	GOM_NL__2PRFIN20101207_023747_000000363097_00147_45851_1507.N1	07-DEC-2010 02:37:47	Bright	36.000	175	39Del Per	3.0100	19400.	72	45851	No
41	GOM_NL__2PRFIN20101207_024022_000000473097_00147_45851_1508.N1	07-DEC-2010 02:40:22	Bright	46.500	42	34Bet Aur	1.9000	10200.	93	45851	No
42	GOM_NL__2PRFIN20101207_025525_000000473097_00147_45851_1509.N1	07-DEC-2010 02:55:25	Bright	46.500	36	50Alp UMa	1.8000	6300.0	93	45851	No

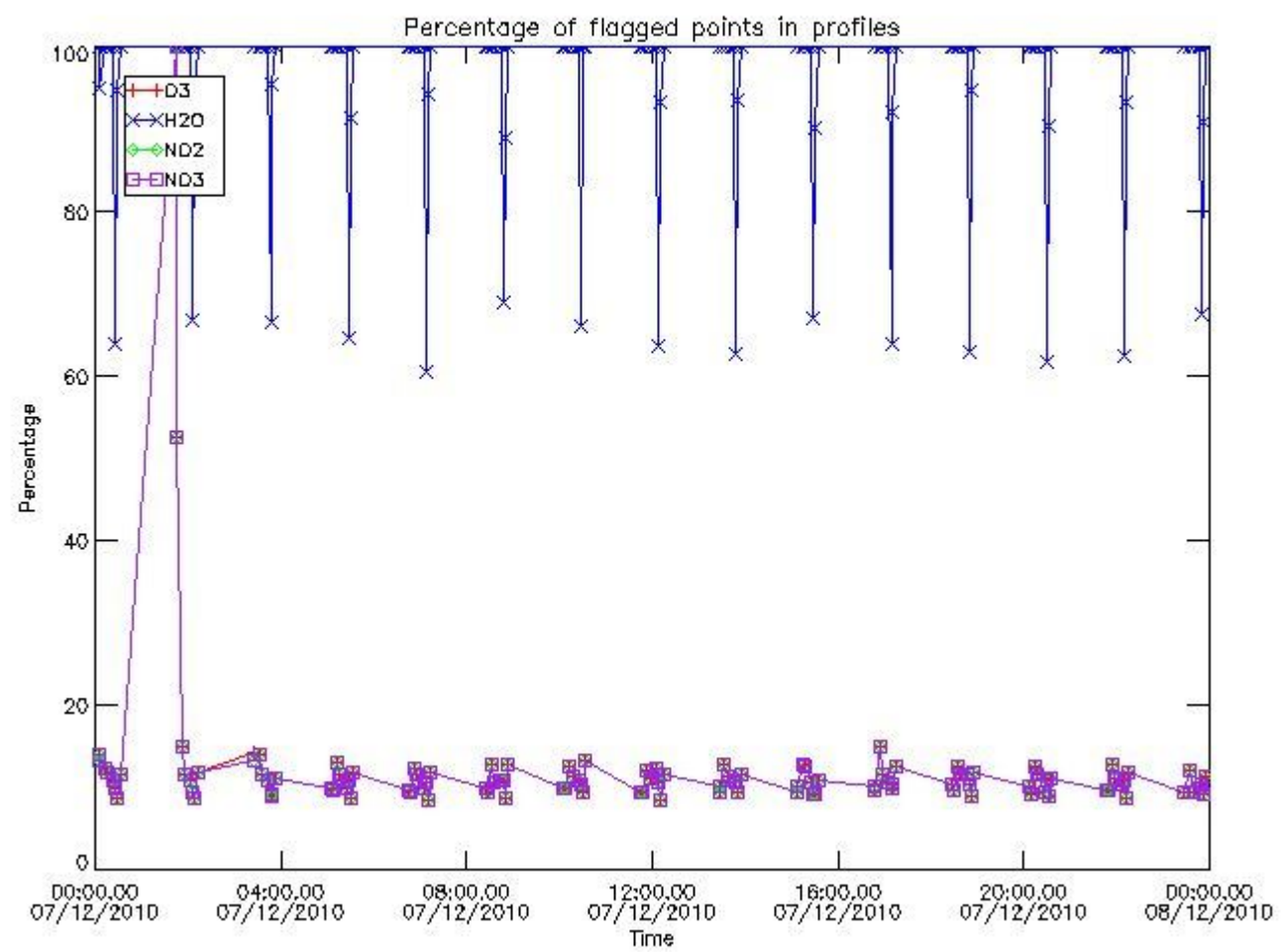
43	GOM_NL__2PRFIN20101207_025658_000000503097_00147_45851_1510.N1	07-DEC-2010 02:56:58	Bright	49.500	82	48Bet UMa	2.3650	10600.	99	45851	No
44	GOM_NL__2PRFIN20101207_025902_000000423097_00147_45851_1511.N1	07-DEC-2010 02:59:02	Bright	41.500	32	77Eps UMa	1.7630	11000.	83	45851	No
45	GOM_NL__2PRFIN20101207_030118_000000393097_00147_45851_1512.N1	07-DEC-2010 03:01:18	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	45851	No
46	GOM_NL__2PRFIN20101207_030448_000000403097_00147_45851_1513.N1	07-DEC-2010 03:04:48	Bright	40.000	152	12Alp2CVn	2.8900	11000.	80	45851	No
47	GOM_NL__2PRFIN20101207_031029_000000373097_00147_45851_1514.N1	07-DEC-2010 03:10:29	Bright	37.000	111	8Eta Boo	2.6800	6000.0	74	45851	No
48	GOM_NL__2PRFIN20101207_031350_000000443097_00147_45851_1515.N1	07-DEC-2010 03:13:50	Bright	43.500	138	47Eps Vir	2.8280	4700.0	87	45851	No
49	GOM_NL__2PRFIN20101207_031829_000000523097_00147_45851_1516.N1	07-DEC-2010 03:18:29	Bright	52.000	121	29Gam Vir	2.7400	7200.0	104	45851	No
50	GOM_NL__2PRFIN20101207_032605_000000543097_00147_45851_1517.N1	07-DEC-2010 03:26:05	Dark	54.000	171	2Eps Crv	3.0010	4250.0	108	45851	No
51	GOM_NL__2PRFIN20101207_033203_000000403097_00147_45851_1518.N1	07-DEC-2010 03:32:03	Dark	40.000	99	Del Cen	2.5750	26000.	80	45851	No
52	GOM_NL__2PRFIN20101207_033523_000000453097_00148_45852_1524.N1	07-DEC-2010 03:35:23	Dark	44.500	113	Mu Vel	2.6920	5000.0	89	45852	No
53	GOM_NL__2PRFIN20101207_034402_000000483097_00148_45852_1525.N1	07-DEC-2010 03:44:02	Dark	47.500	34	Gam2Vel	1.7930	23000.	95	45852	No
54	GOM_NL__2PRFIN20101207_034653_000000573097_00148_45852_1526.N1	07-DEC-2010 03:46:53	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	45852	No
55	GOM_NL__2PRFIN20101207_034908_000000563097_00148_45852_1527.N1	07-DEC-2010 03:49:08	Dark	56.000	117	Pi Pup	2.7060	3800.0	112	45852	No
56	GOM_NL__2PRFIN20101207_035307_000000463097_00148_45852_1528.N1	07-DEC-2010 03:53:07	Dark	45.500	108	Alp Col	2.6520	15200.	91	45852	No
57	GOM_NL__2PRFIN20101207_035828_000000513097_00148_45852_1529.N1	07-DEC-2010 03:58:28	Straylight	51.000	101	11Alp Lep	2.5820	7000.0	102	45852	No
58	GOM_NL__2PRFIN20101207_040147_000000553097_00148_45852_1530.N1	07-DEC-2010 04:01:47	Straylight	55.000	7	19Bet Ori	0.10000	14000.	110	45852	No
59	GOM_NL__2PRFIN20101207_040424_000000543097_00148_45852_1531.N1	07-DEC-2010 04:04:24	Straylight	53.500	30	46Eps Ori	1.6940	30000.	107	45852	No
60	GOM_NL__2PRFIN20101207_040656_000000543097_00148_45852_1532.N1	07-DEC-2010 04:06:56	Tw_i_and_stray	54.000	27	24Gam Ori	1.6360	26000.	108	45852	No
61	GOM_NL__2PRFIN20101207_040926_000000593097_00148_45852_1533.N1	07-DEC-2010 04:09:26	Bright	58.500	13	87Alp Tau	0.86700	3800.0	117	45852	No
62	GOM_NL__2PRFIN20101207_041117_000000383097_00148_45852_1534.N1	07-DEC-2010 04:11:17	Bright	38.000	146	25Eta Tau	2.8730	15200.	76	45852	No
63	GOM_NL__2PRFIN20101207_041333_000000373097_00148_45852_1535.N1	07-DEC-2010 04:13:33	Bright	37.000	150	44Zet Per	2.8900	28000.	74	45852	No
64	GOM_NL__2PRFIN20101207_041456_000000433097_00148_45852_1536.N1	07-DEC-2010 04:14:56	Bright	43.000	114	3Iot Aur	2.6930	4600.0	86	45852	No
65	GOM_NL__2PRFIN20101207_041801_000000363097_00148_45852_1537.N1	07-DEC-2010 04:18:01	Bright	36.000	175	39Del Per	3.0100	19400.	72	45852	No
66	GOM_NL__2PRFIN20101207_042036_000000493097_00148_45852_1538.N1	07-DEC-2010 04:20:36	Bright	48.500	42	34Bet Aur	1.9000	10200.	97	45852	No
67	GOM_NL__2PRFIN20101207_043539_000000663097_00148_45852_1539.N1	07-DEC-2010 04:35:39	Bright	66.000	36	50Alp UMa	1.8000	6300.0	132	45852	No
68	GOM_NL__2PRFIN20101207_043712_000000473097_00148_45852_1540.N1	07-DEC-2010 04:37:12	Bright	46.500	82	48Bet UMa	2.3650	10600.	93	45852	No
69	GOM_NL__2PRFIN20101207_043916_000000383097_00148_45852_1541.N1	07-DEC-2010 04:39:16	Bright	38.000	32	77Eps UMa	1.7630	11000.	76	45852	No
70	GOM_NL__2PRFIN20101207_044132_000000353097_00148_45852_1542.N1	07-DEC-2010 04:41:32	Bright	35.000	39	85Eta UMa	1.8540	24000.	70	45852	No
71	GOM_NL__2PRFIN20101207_044502_000000423097_00148_45852_1543.N1	07-DEC-2010 04:45:02	Bright	41.500	152	12Alp2CVn	2.8900	11000.	83	45852	No
72	GOM_NL__2PRFIN20101207_045044_000000363097_00148_45852_1544.N1	07-DEC-2010 04:50:44	Bright	36.000	111	8Eta Boo	2.6800	6000.0	72	45852	No
73	GOM_NL__2PRFIN20101207_045405_000000453097_00148_45852_1545.N1	07-DEC-2010 04:54:05	Bright	44.500	138	47Eps Vir	2.8280	4700.0	89	45852	No
74	GOM_NL__2PRFIN20101207_045844_000000553097_00148_45852_1546.N1	07-DEC-2010 04:58:44	Bright	55.000	121	29Gam Vir	2.7400	7200.0	110	45852	No
75	GOM_NL__2PRFIN20101207_050443_000000523097_00148_45852_1547.N1	07-DEC-2010 05:04:43	Dark	52.000	100	4Gam Crv	2.5800	13100.	104	45852	No
76	GOM_NL__2PRFIN20101207_050620_000000533097_00148_45852_1548.N1	07-DEC-2010 05:06:20	Dark	52.500	171	2Eps Crv	3.0010	4250.0	105	45852	No
77	GOM_NL__2PRFIN20101207_051217_000000393097_00148_45852_1549.N1	07-DEC-2010 05:12:17	Dark	39.000	99	Del Cen	2.5750	26000.	78	45852	No
78	GOM_NL__2PRFIN20101207_051539_000000443097_00149_45853_1543.N1	07-DEC-2010 05:15:39	Dark	44.000	113	Mu Vel	2.6920	5000.0	88	45853	No
79	GOM_NL__2PRFIN20101207_052417_000000523097_00149_45853_1544.N1	07-DEC-2010 05:24:17	Dark	51.500	34	Gam2Vel	1.7930	23000.	103	45853	No
80	GOM_NL__2PRFIN20101207_052708_000000473097_00149_45853_1545.N1	07-DEC-2010 05:27:08	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	45853	No
81	GOM_NL__2PRFIN20101207_052923_000000583097_00149_45853_1546.N1	07-DEC-2010 05:29:23	Dark	58.000	117	Pi Pup	2.7060	3800.0	116	45853	No
82	GOM_NL__2PRFIN20101207_053321_000000443097_00149_45853_1547.N1	07-DEC-2010 05:33:21	Dark	43.500	108	Alp Col	2.6520	15200.	87	45853	No
83	GOM_NL__2PRFIN20101207_053842_000000503097_00149_45853_1548.N1	07-DEC-2010 05:38:42	Straylight	49.500	101	11Alp Lep	2.5820	7000.0	99	45853	No
84	GOM_NL__2PRFIN20101207_054201_000000553097_00149_45853_1549.N1	07-DEC-2010 05:42:01	Straylight	55.000	7	19Bet Ori	0.10000	14000.	110	45853	No
85	GOM_NL__2PRFIN20101207_054438_000000573097_00149_45853_1550.N1	07-DEC-2010 05:44:38	Straylight	57.000	30	46Eps Ori	1.6940	30000.	114	45853	No
86	GOM_NL__2PRFIN20101207_054710_000000563097_00149_45853_1551.N1	07-DEC-2010 05:47:10	Tw_i_and_stray	55.500	27	24Gam Ori	1.6360	26000.	111	45853	No
87	GOM_NL__2PRFIN20101207_054940_000000593097_00149_45853_1552.N1	07-DEC-2010 05:49:40	Bright	59.000	13	87Alp Tau	0.86700	3800.0	118	45853	No
88	GOM_NL__2PRFIN20101207_055132_000000383097_00149_45853_1553.N1	07-DEC-2010 05:51:32	Bright	37.500	146	25Eta Tau	2.8730	15200.	75	45853	No
89	GOM_NL__2PRFIN20101207_055347_000000383097_00149_45853_1554.N1	07-DEC-2010 05:53:47	Bright	37.500	150	44Zet Per	2.8900	28000.	75	45853	No
90	GOM_NL__2PRFIN20101207_055509_000000423097_00149_45853_1555.N1	07-DEC-2010 05:55:09	Bright	42.000	114	3Iot Aur	2.6930	4600.0	84	45853	No
91	GOM_NL__2PRFIN20101207_055815_000000373097_00149_45853_1556.N1	07-DEC-2010 05:58:15	Bright	36.500	175	39Del Per	3.0100	19400.	73	45853	No
92	GOM_NL__2PRFIN20101207_060049_000000473097_00149_45853_1557.N1	07-DEC-2010 06:00:49	Bright	47.000	42	34Bet Aur	1.9000	10200.	94	45853	No
93	GOM_NL__2PRFIN20101207_061553_000000463097_00149_45853_1558.N1	07-DEC-2010 06:15:53	Bright	46.000	36	50Alp UMa	1.8000	6300.0	92	45853	No
94	GOM_NL__2PRFIN20101207_061725_000000483097_00149_45853_1559.N1	07-DEC-2010 06:17:25	Bright	48.000	82	48Bet UMa	2.3650	10600.	96	45853	No
95	GOM_NL__2PRFIN20101207_061930_000000433097_00149_45853_1560.N1	07-DEC-2010 06:19:30	Bright	42.500	32	77Eps UMa	1.7630	11000.	85	45853	No
96	GOM_NL__2PRFIN20101207_062146_000000393097_00149_45853_1561.N1	07-DEC-2010 06:21:46	Bright	39.000	39	85Eta UMa	1.8540	24000.	78	45853	No
97	GOM_NL__2PRFIN20101207_062516_000000423097_00149_45853_1562.N1	07-DEC-2010 06:25:16	Bright	42.000	152	12Alp2CVn	2.8900	11000.	84	45853	No
98	GOM_NL__2PRFIN20101207_063058_000000373097_00149_45853_1563.N1	07-DEC-2010 06:30:58	Bright	37.000	111	8Eta Boo	2.6800	6000.0	74	45853	No
99	GOM_NL__2PRFIN20101207_063419_000000643097_00149_45853_1564.N1	07-DEC-2010 06:34:19	Bright	64.000	138	47Eps Vir	2.8280	4700.0	128	45853	No
100	GOM_NL__2PRFIN20101207_063859_000000563097_00149_45853_1565.N1	07-DEC-2010 06:38:59	Bright	55.500	121	29Gam Vir	2.7400	7200.0	111	45853	No
101	GOM_NL__2PRFIN20101207_064458_000000533097_00149_45853_1566.N1	07-DEC-2010 06:44:58	Dark	52.500	100	4Gam Crv	2.5800	13100.	105	45853	No

338	GOM_NL__2PRFIN20101207_212723_000000403097_00158_45862_2513.N1	07-DEC-2010 21:27:23	Bright	39.500	152	12Alp2CVn	2.8900	11000.	79	45862	No
339	GOM_NL__2PRFIN20101207_213306_000000363097_00158_45862_2514.N1	07-DEC-2010 21:33:06	Bright	36.000	111	8Eta Boo	2.6800	6000.0	72	45862	No
340	GOM_NL__2PRFIN20101207_213630_000000453097_00158_45862_2515.N1	07-DEC-2010 21:36:30	Bright	45.000	138	47Eps Vir	2.8280	4700.0	90	45862	No
341	GOM_NL__2PRFIN20101207_214112_000000553097_00158_45862_2516.N1	07-DEC-2010 21:41:12	Twi_and_stray	54.500	121	29Gam Vir	2.7400	7200.0	109	45862	No
342	GOM_NL__2PRFIN20101207_214547_000000443097_00158_45862_2517.N1	07-DEC-2010 21:45:47	Twi_and_stray	43.500	169	46Gam Hya	2.9910	4700.0	87	45862	No
343	GOM_NL__2PRFIN20101207_214714_000000533097_00158_45862_2518.N1	07-DEC-2010 21:47:14	Dark	52.500	100	4Gam Crv	2.5800	13100.	105	45862	No
344	GOM_NL__2PRFIN20101207_214850_000000543097_00158_45862_2519.N1	07-DEC-2010 21:48:50	Dark	53.500	171	2Eps Crv	3.0010	4250.0	107	45862	No
345	GOM_NL__2PRFIN20101207_215444_000000403097_00158_45862_2520.N1	07-DEC-2010 21:54:44	Dark	40.000	99	Del Cen	2.5750	26000.	80	45862	No
346	GOM_NL__2PRFIN20101207_215807_000000463097_00159_45863_1878.N1	07-DEC-2010 21:58:07	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	45863	No
347	GOM_NL__2PRFIN20101207_220645_000000493097_00159_45863_1879.N1	07-DEC-2010 22:06:45	Dark	49.000	34	Gam2Vel	1.7930	23000.	98	45863	No
348	GOM_NL__2PRFIN20101207_220932_000000473097_00159_45863_1880.N1	07-DEC-2010 22:09:32	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	45863	No
349	GOM_NL__2PRFIN20101207_221150_000000593097_00159_45863_1881.N1	07-DEC-2010 22:11:50	Dark	59.000	117	Pi Pup	2.7060	3800.0	118	45863	No
350	GOM_NL__2PRFIN20101207_221545_000000443097_00159_45863_1882.N1	07-DEC-2010 22:15:45	Dark	43.500	108	Alp Col	2.6520	15200.	87	45863	No
351	GOM_NL__2PRFIN20101207_222103_000000483097_00159_45863_1883.N1	07-DEC-2010 22:21:03	Straylight	48.000	101	11Alp Lep	2.5820	7000.0	96	45863	No
352	GOM_NL__2PRFIN20101207_222422_000000563097_00159_45863_1884.N1	07-DEC-2010 22:24:22	Straylight	55.500	7	19Bet Ori	0.10000	14000.	111	45863	No
353	GOM_NL__2PRFIN20101207_222656_000000543097_00159_45863_1885.N1	07-DEC-2010 22:26:56	Straylight	53.500	30	46Eps Ori	1.6940	30000.	107	45863	No
354	GOM_NL__2PRFIN20101207_222927_000000563097_00159_45863_1886.N1	07-DEC-2010 22:29:27	Twi_and_stray	55.500	27	24Gam Ori	1.6360	26000.	111	45863	No
355	GOM_NL__2PRFIN20101207_223158_000000583097_00159_45863_1887.N1	07-DEC-2010 22:31:58	Bright	58.000	13	87Alp Tau	0.86700	3800.0	116	45863	No
356	GOM_NL__2PRFIN20101207_223606_000000373097_00159_45863_1888.N1	07-DEC-2010 22:36:06	Bright	36.500	150	44Zet Per	2.8900	28000.	73	45863	No
357	GOM_NL__2PRFIN20101207_223725_000000433097_00159_45863_1889.N1	07-DEC-2010 22:37:25	Bright	43.000	114	3Iot Aur	2.6930	4600.0	86	45863	No
358	GOM_NL__2PRFIN20101207_224034_000000353097_00159_45863_1890.N1	07-DEC-2010 22:40:34	Bright	34.500	175	39Del Per	3.0100	19400.	69	45863	No
359	GOM_NL__2PRFIN20101207_224301_000000463097_00159_45863_1891.N1	07-DEC-2010 22:43:01	Bright	45.500	42	34Bet Aur	1.9000	10200.	91	45863	No
360	GOM_NL__2PRFIN20101207_225809_000000443097_00159_45863_1892.N1	07-DEC-2010 22:58:09	Bright	44.000	36	50Alp UMa	1.8000	6300.0	88	45863	No
361	GOM_NL__2PRFIN20101207_225941_000000483097_00159_45863_1893.N1	07-DEC-2010 22:59:41	Bright	48.000	82	48Bet UMa	2.3650	10600.	96	45863	No
362	GOM_NL__2PRFIN20101207_230149_000000383097_00159_45863_1894.N1	07-DEC-2010 23:01:49	Bright	37.500	32	77Eps UMa	1.7630	11000.	75	45863	No
363	GOM_NL__2PRFIN20101207_230406_000000363097_00159_45863_1895.N1	07-DEC-2010 23:04:06	Bright	35.500	39	85Eta UMa	1.8540	24000.	71	45863	No
364	GOM_NL__2PRFIN20101207_230737_000000423097_00159_45863_1896.N1	07-DEC-2010 23:07:37	Bright	42.000	152	12Alp2CVn	2.8900	11000.	84	45863	No
365	GOM_NL__2PRFIN20101207_231321_000000373097_00159_45863_1897.N1	07-DEC-2010 23:13:21	Bright	36.500	111	8Eta Boo	2.6800	6000.0	73	45863	No
366	GOM_NL__2PRFIN20101207_231644_000000463097_00159_45863_1898.N1	07-DEC-2010 23:16:44	Bright	46.000	138	47Eps Vir	2.8280	4700.0	92	45863	No
367	GOM_NL__2PRFIN20101207_232127_000000523097_00159_45863_1899.N1	07-DEC-2010 23:21:27	Twi_and_stray	52.000	121	29Gam Vir	2.7400	7200.0	104	45863	No
368	GOM_NL__2PRFIN20101207_232601_000000463097_00159_45863_1900.N1	07-DEC-2010 23:26:01	Twi_and_stray	45.500	169	46Gam Hya	2.9910	4700.0	91	45863	No
369	GOM_NL__2PRFIN20101207_232729_000000543097_00159_45863_1901.N1	07-DEC-2010 23:27:29	Dark	54.000	100	4Gam Crv	2.5800	13100.	108	45863	No
370	GOM_NL__2PRFIN20101207_233458_000000423097_00159_45863_1902.N1	07-DEC-2010 23:34:58	Dark	42.000	99	Del Cen	2.5750	26000.	84	45863	No
371	GOM_NL__2PRFIN20101207_233822_000000553097_00160_45864_2073.N1	07-DEC-2010 23:38:22	Dark	54.500	113	Mu Vel	2.6920	5000.0	109	45864	No
372	GOM_NL__2PRFIN20101207_234700_000000523097_00160_45864_2074.N1	07-DEC-2010 23:47:00	Dark	51.500	34	Gam2Vel	1.7930	23000.	103	45864	No
373	GOM_NL__2PRFIN20101207_234947_000000503097_00160_45864_2075.N1	07-DEC-2010 23:49:47	Dark	49.500	2	Alp Car	-0.73600	7000.0	99	45864	No
374	GOM_NL__2PRFIN20101207_235205_000000553097_00160_45864_2076.N1	07-DEC-2010 23:52:05	Dark	55.000	117	Pi Pup	2.7060	3800.0	110	45864	No
375	GOM_NL__2PRFIN20101207_235600_000000453097_00160_45864_2077.N1	07-DEC-2010 23:56:00	Dark	45.000	108	Alp Col	2.6520	15200.	90	45864	No

3. Quality information per product

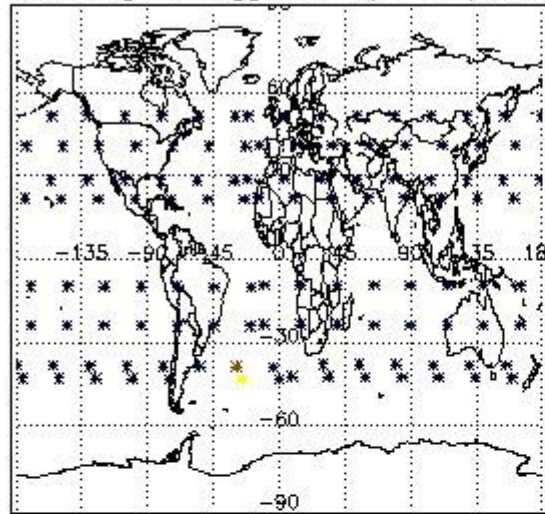
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

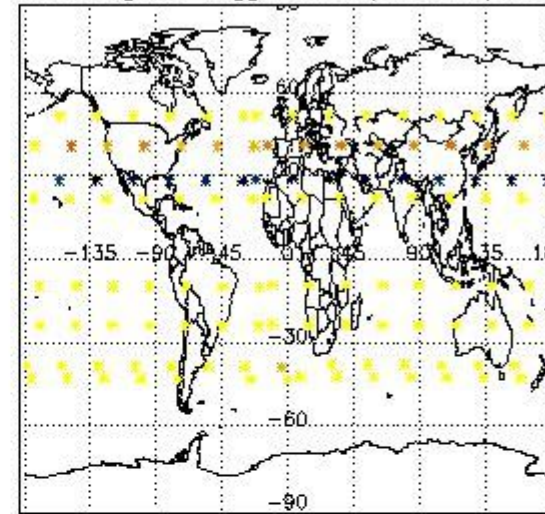


3.2 Plot quality information per product (world map)

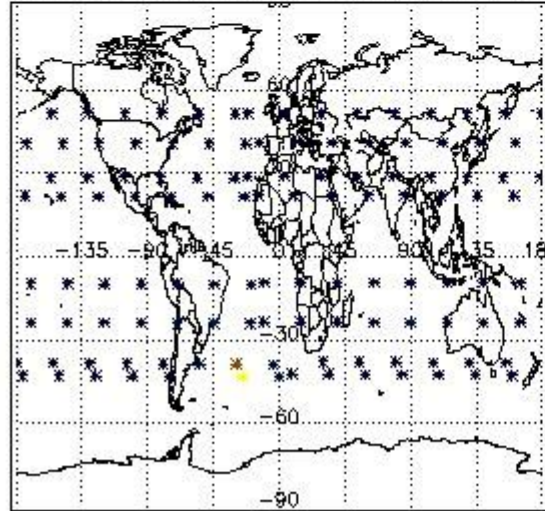
Percentage of flagged data per O3 profile



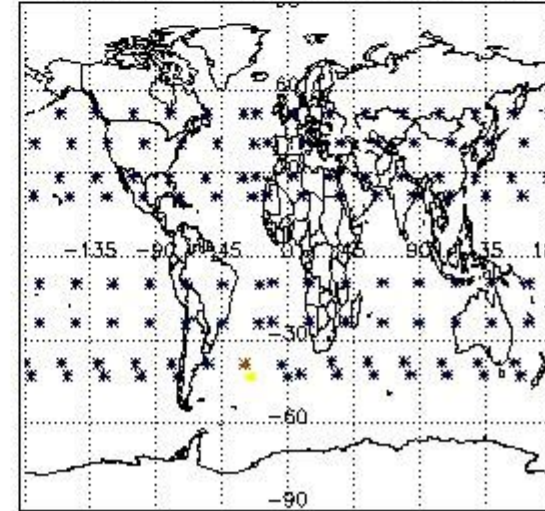
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

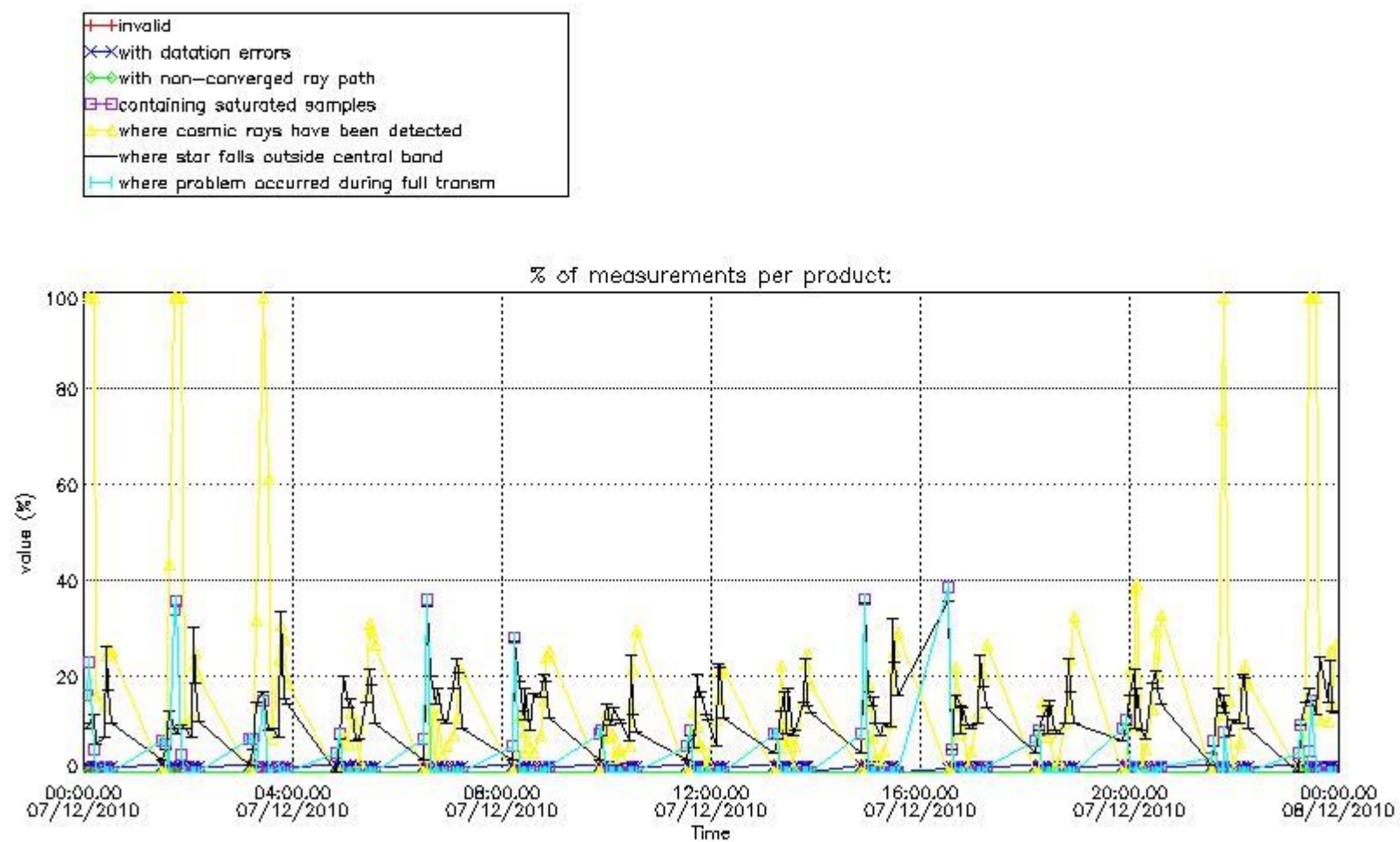


4. Level 1 quality information per product

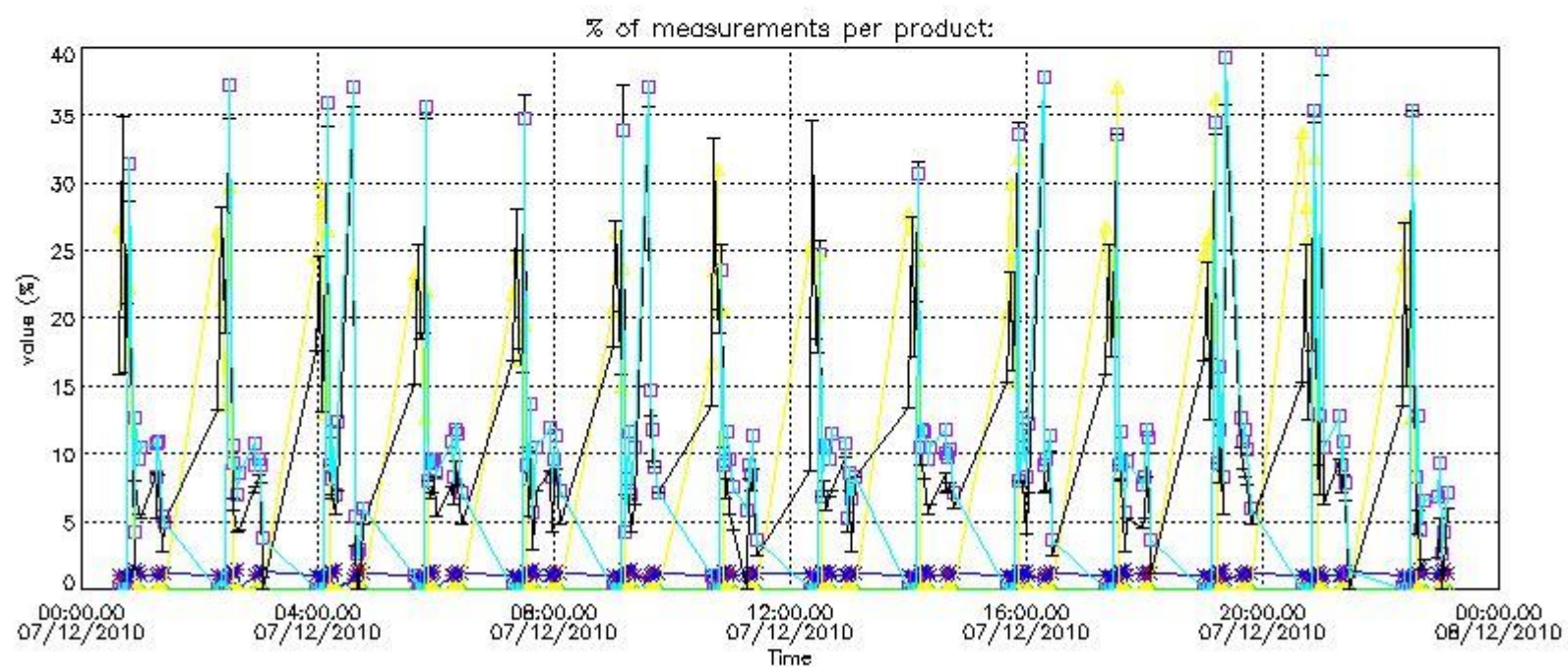
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

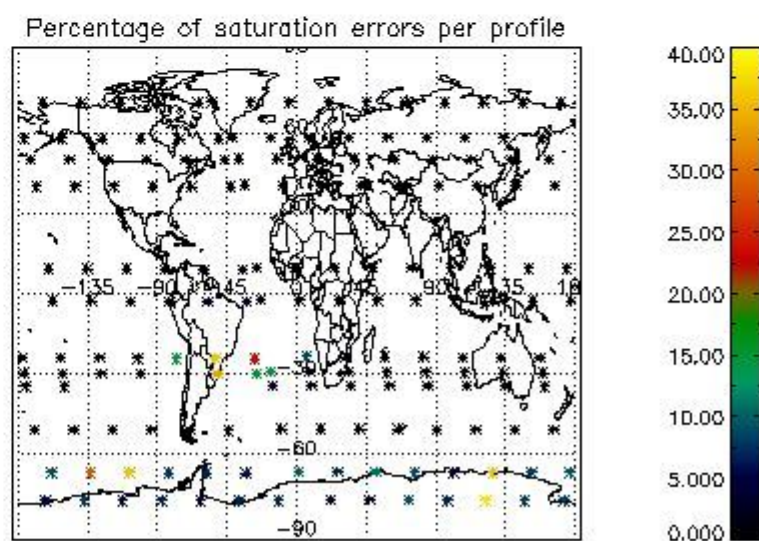
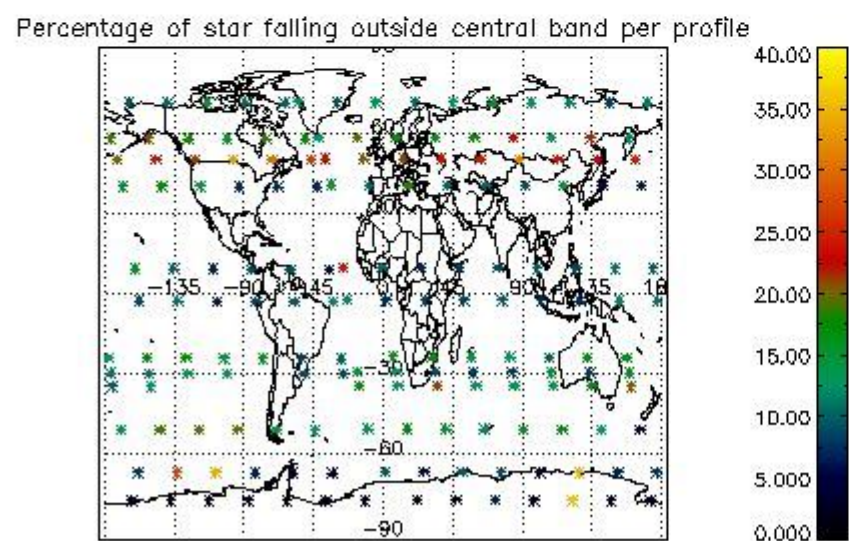
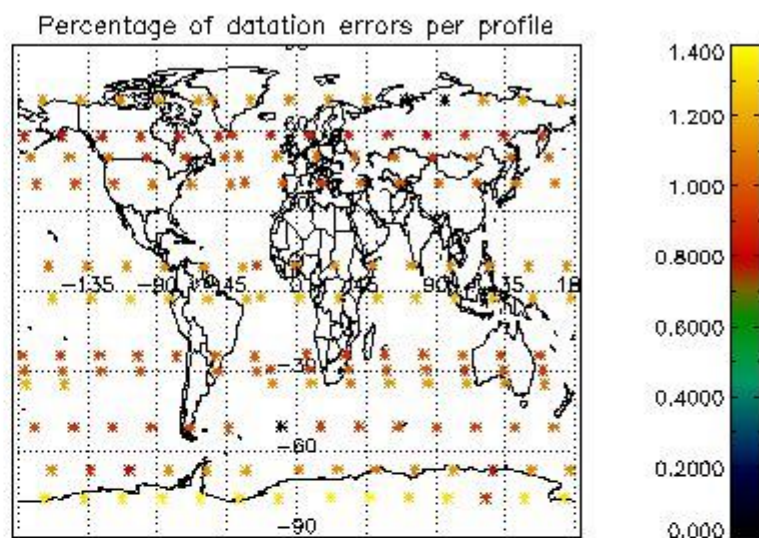
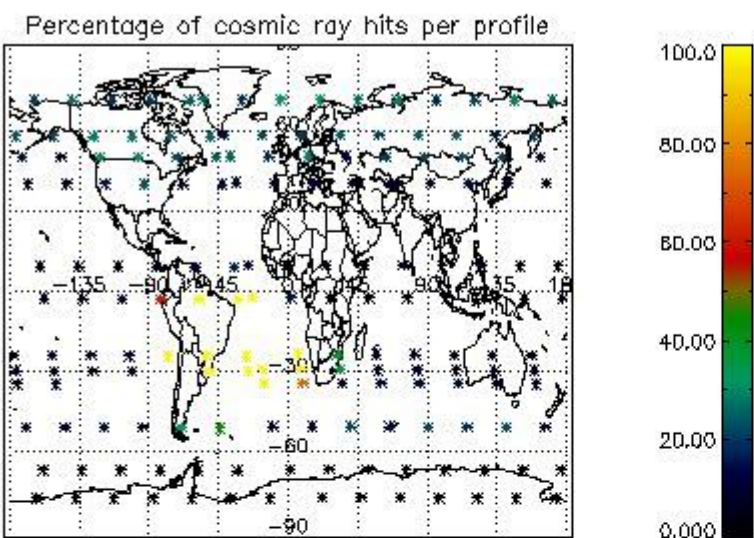


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

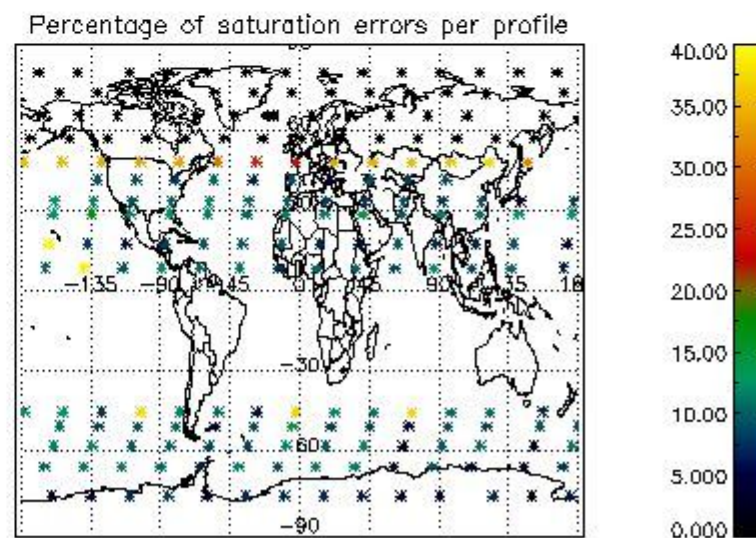
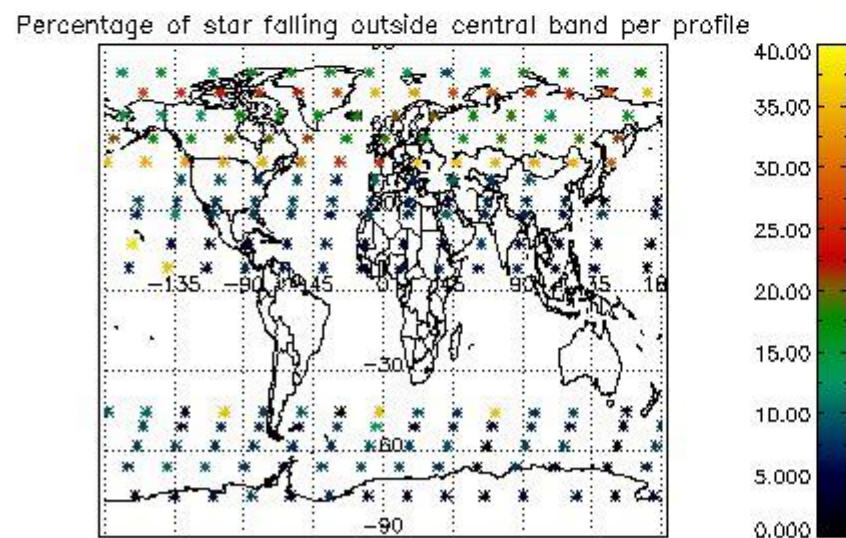
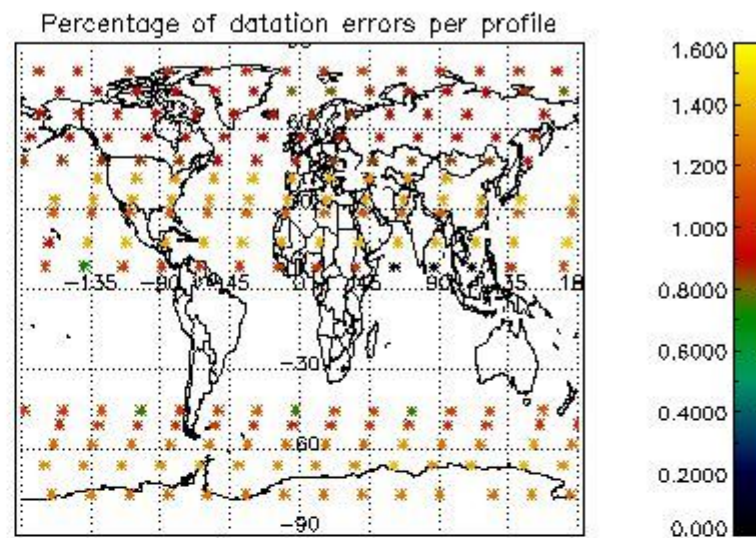
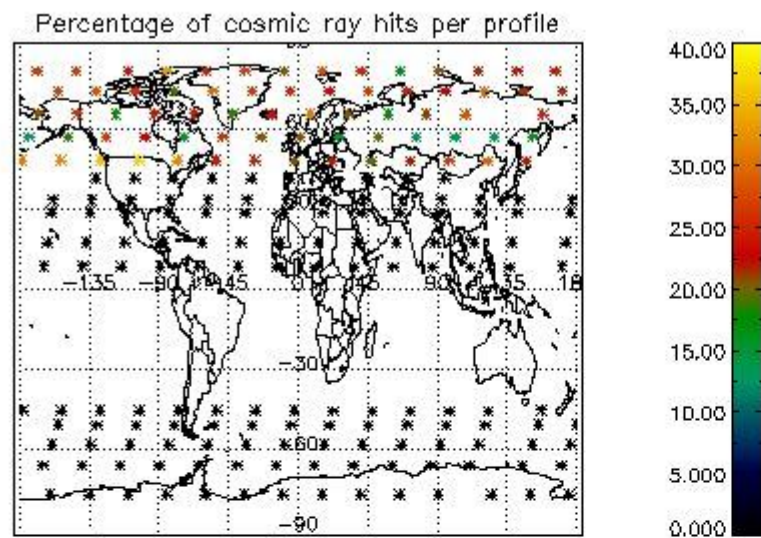


4.2 Plot quality information per product coming from level 1b processing (world map)

4.2.1 Plot level 1 quality information per product (world map): ENVI SAT 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

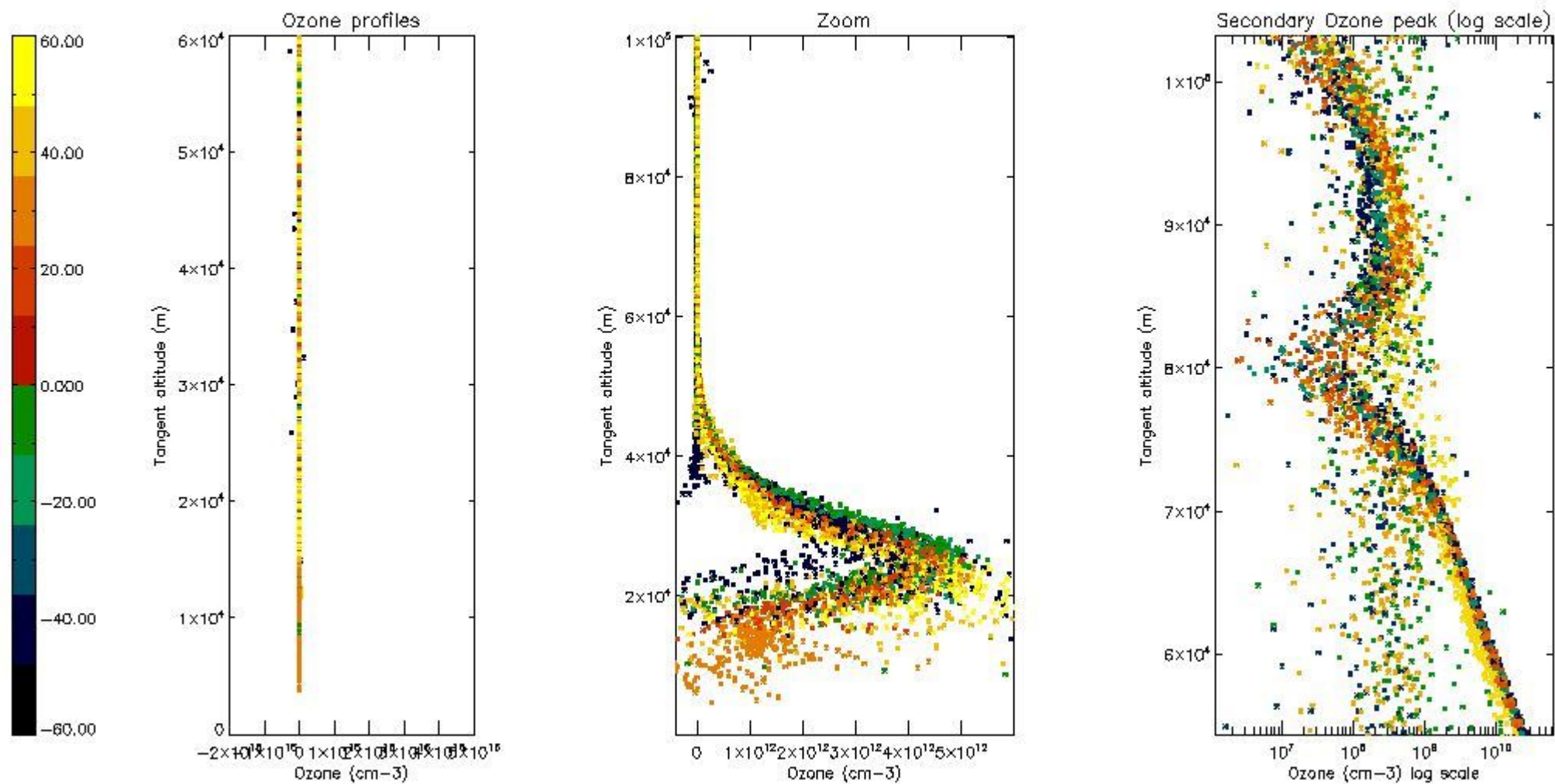
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	33
STD < 20	15

STD < 10	12
STD < 5	7

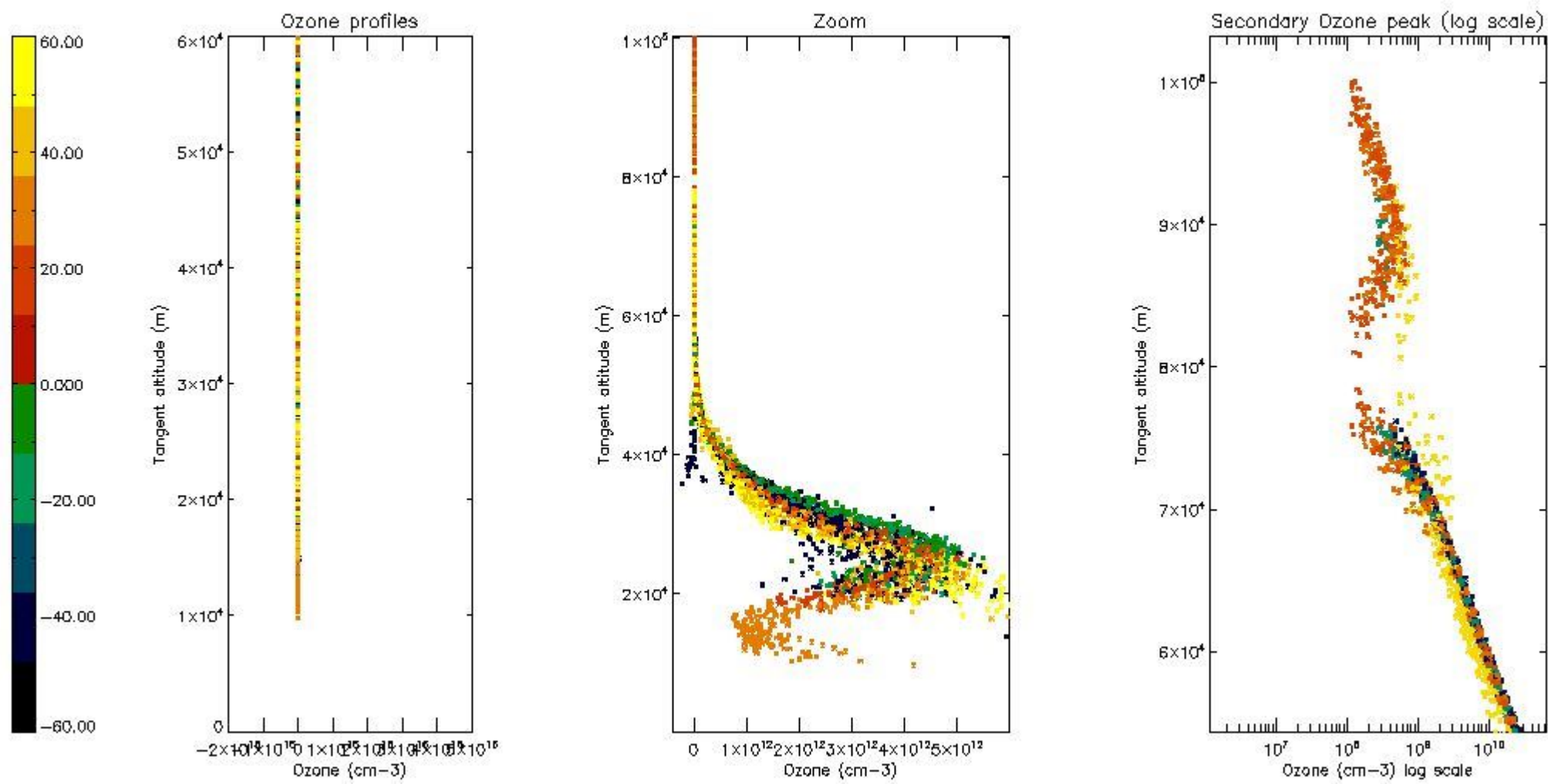
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



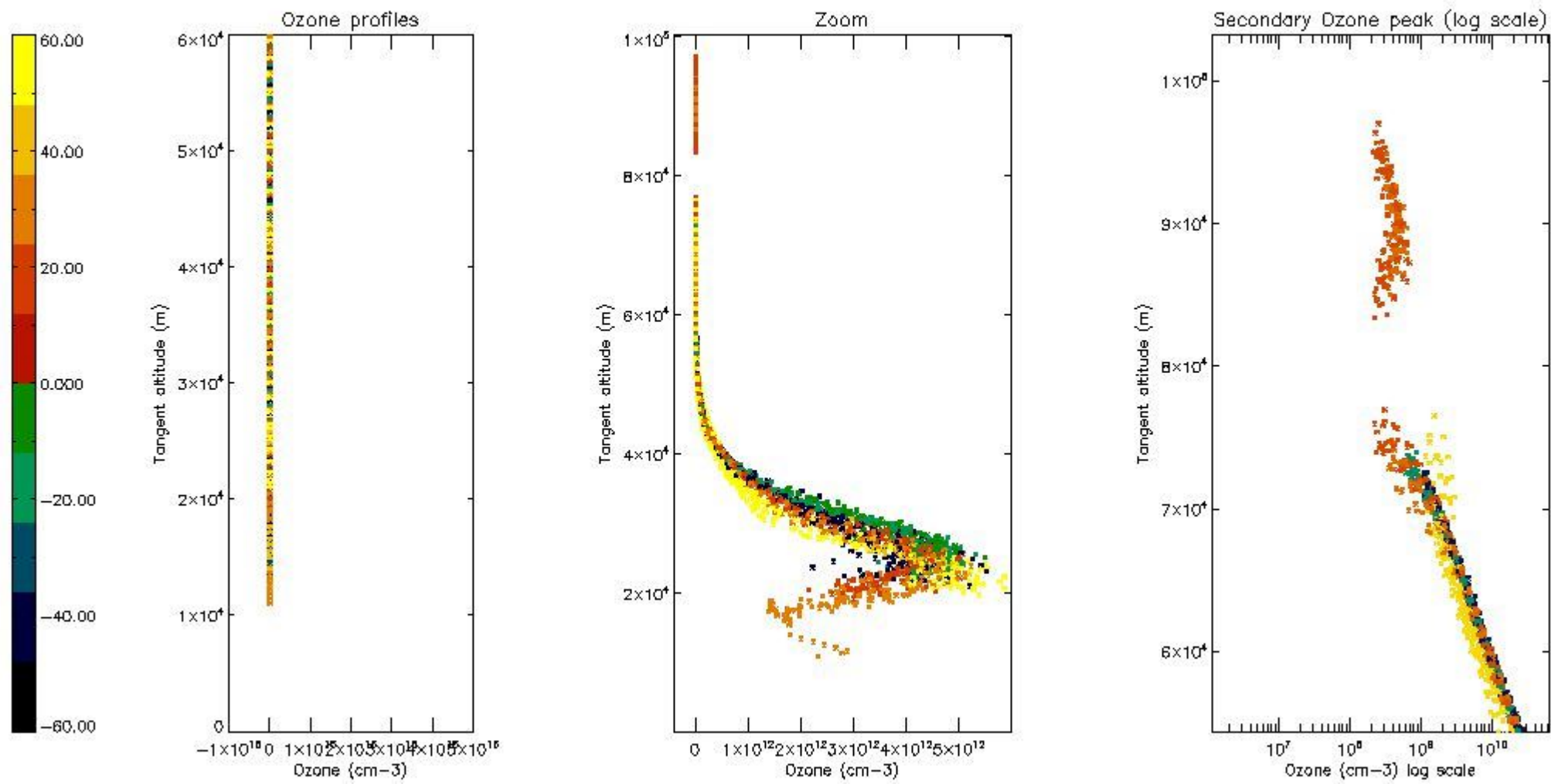
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



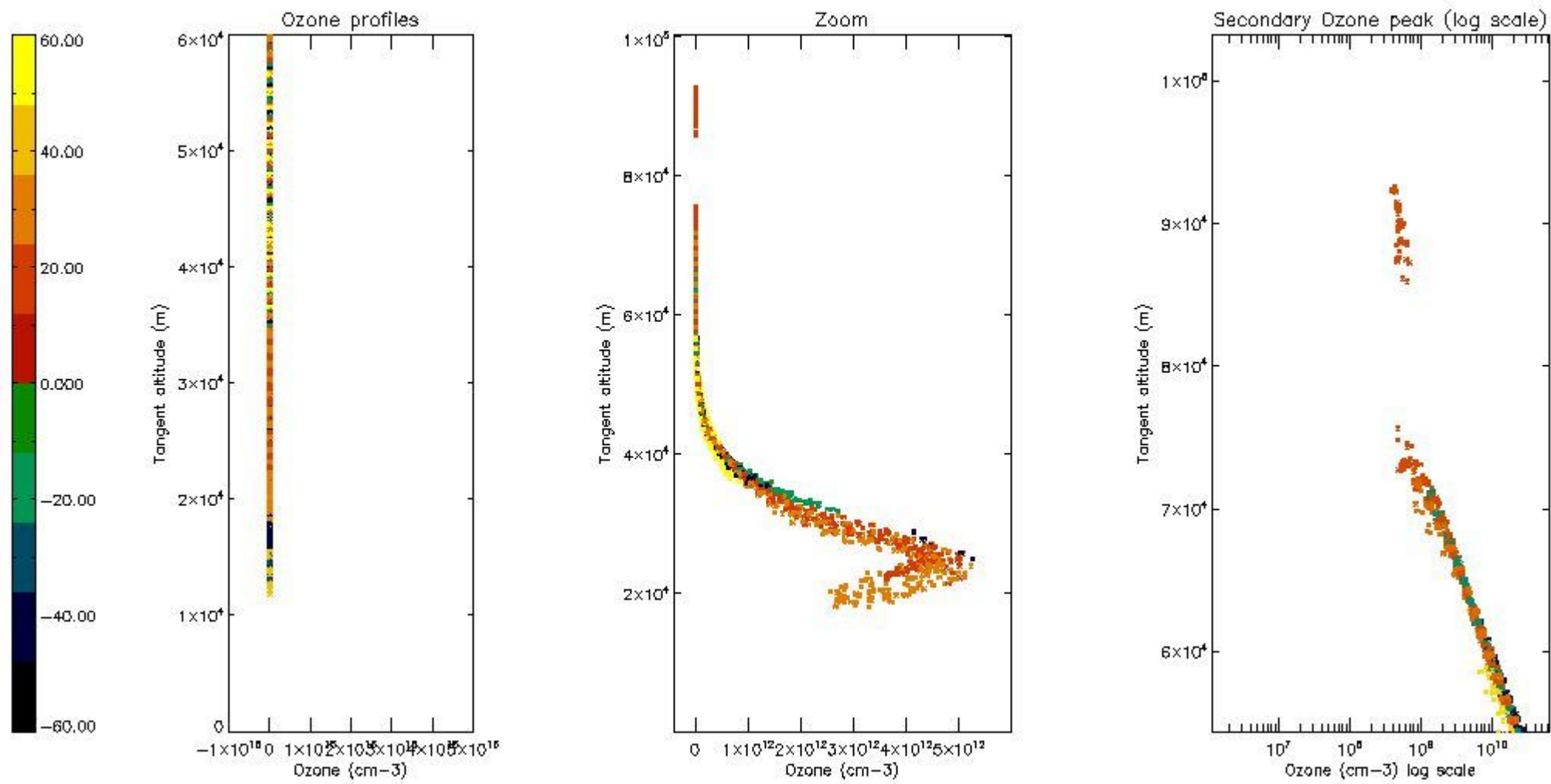
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



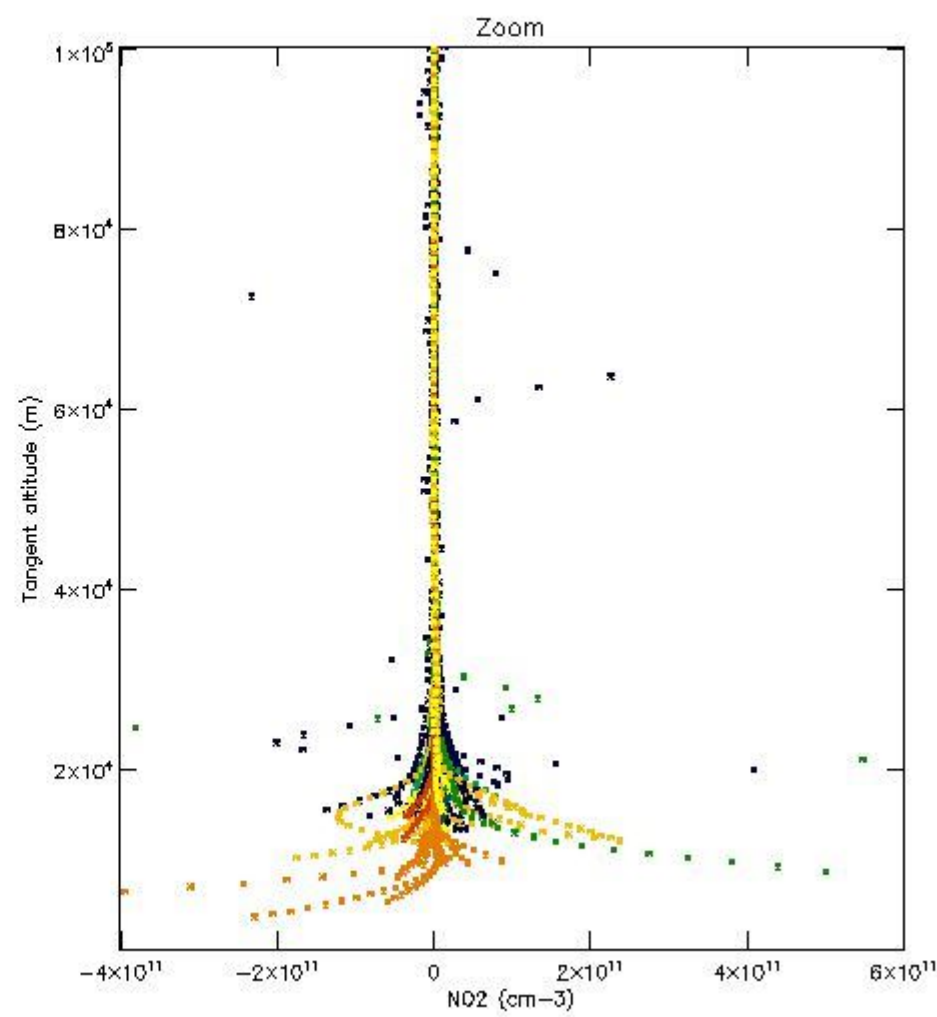
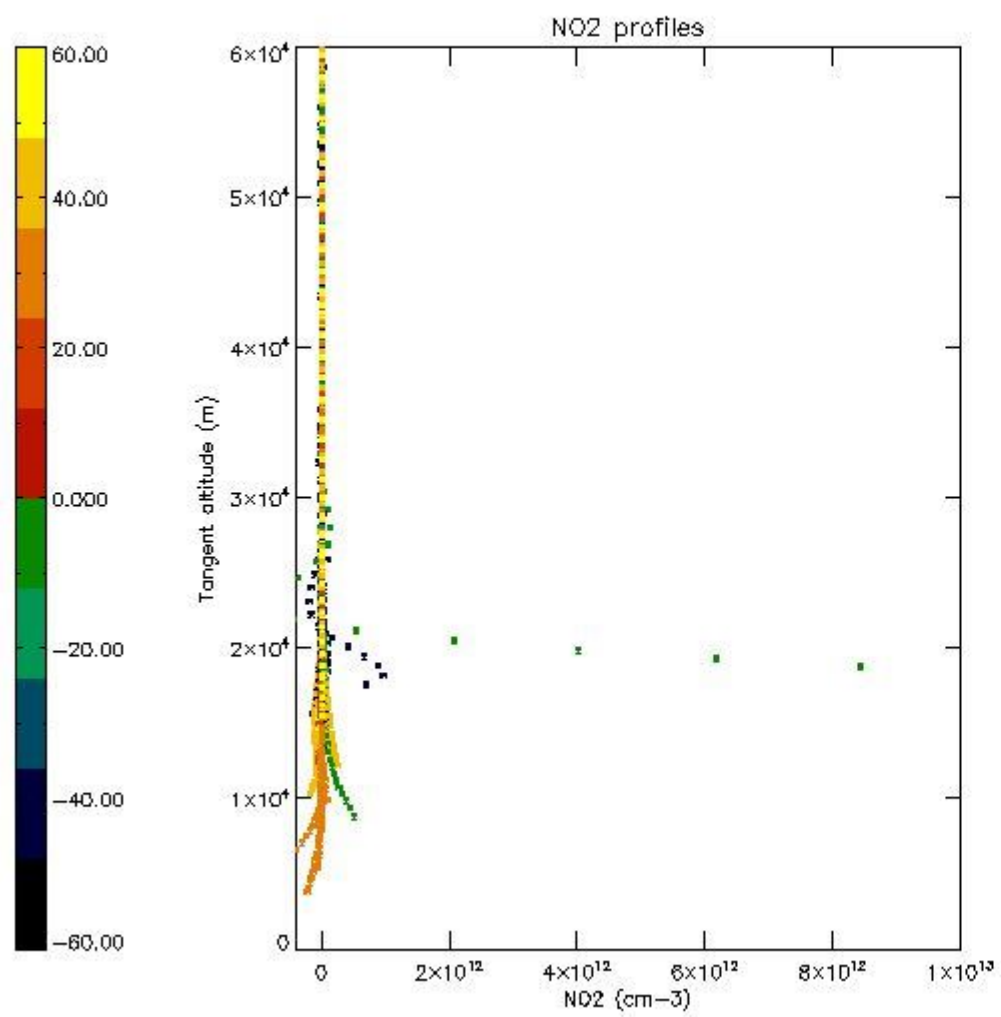
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



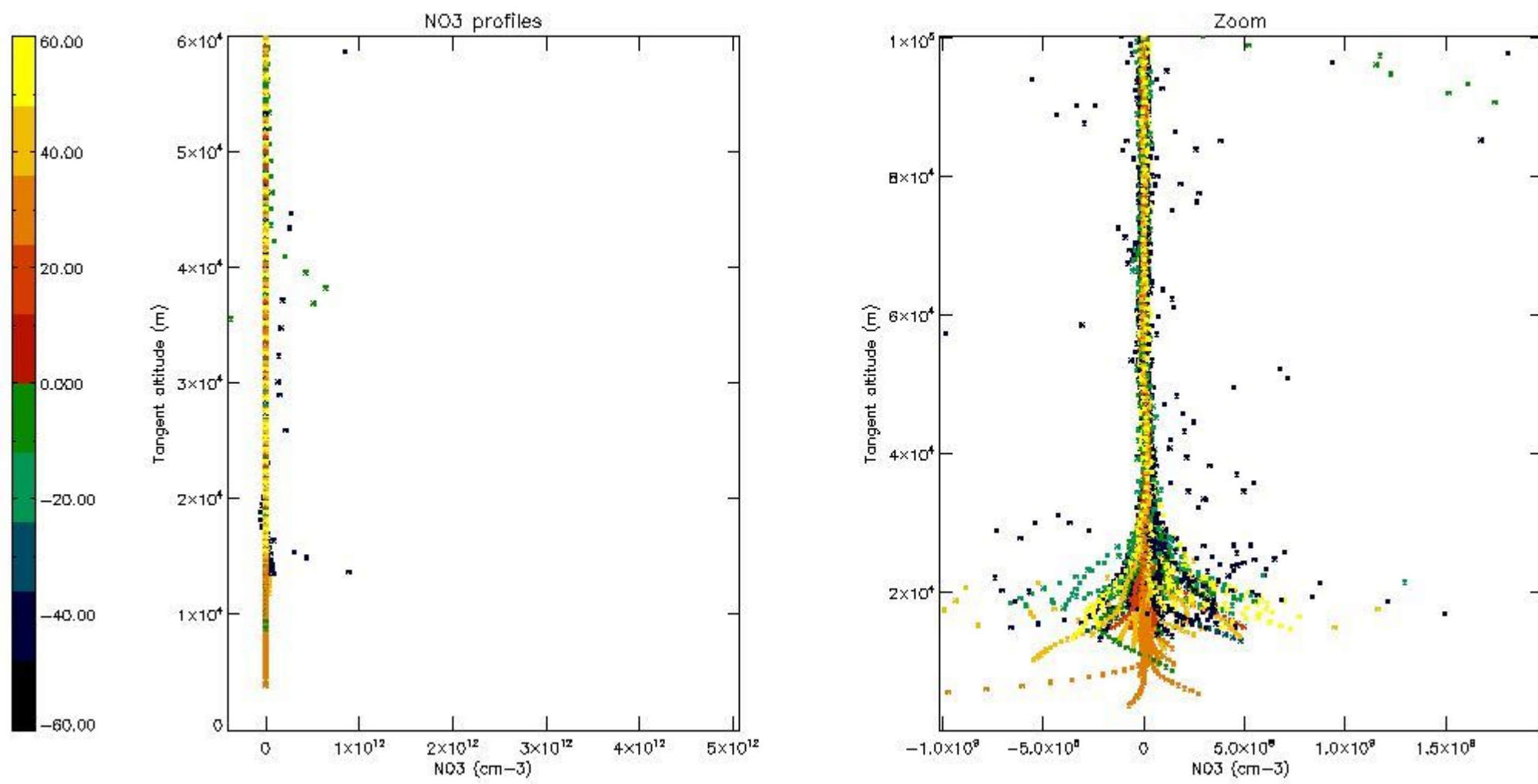
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



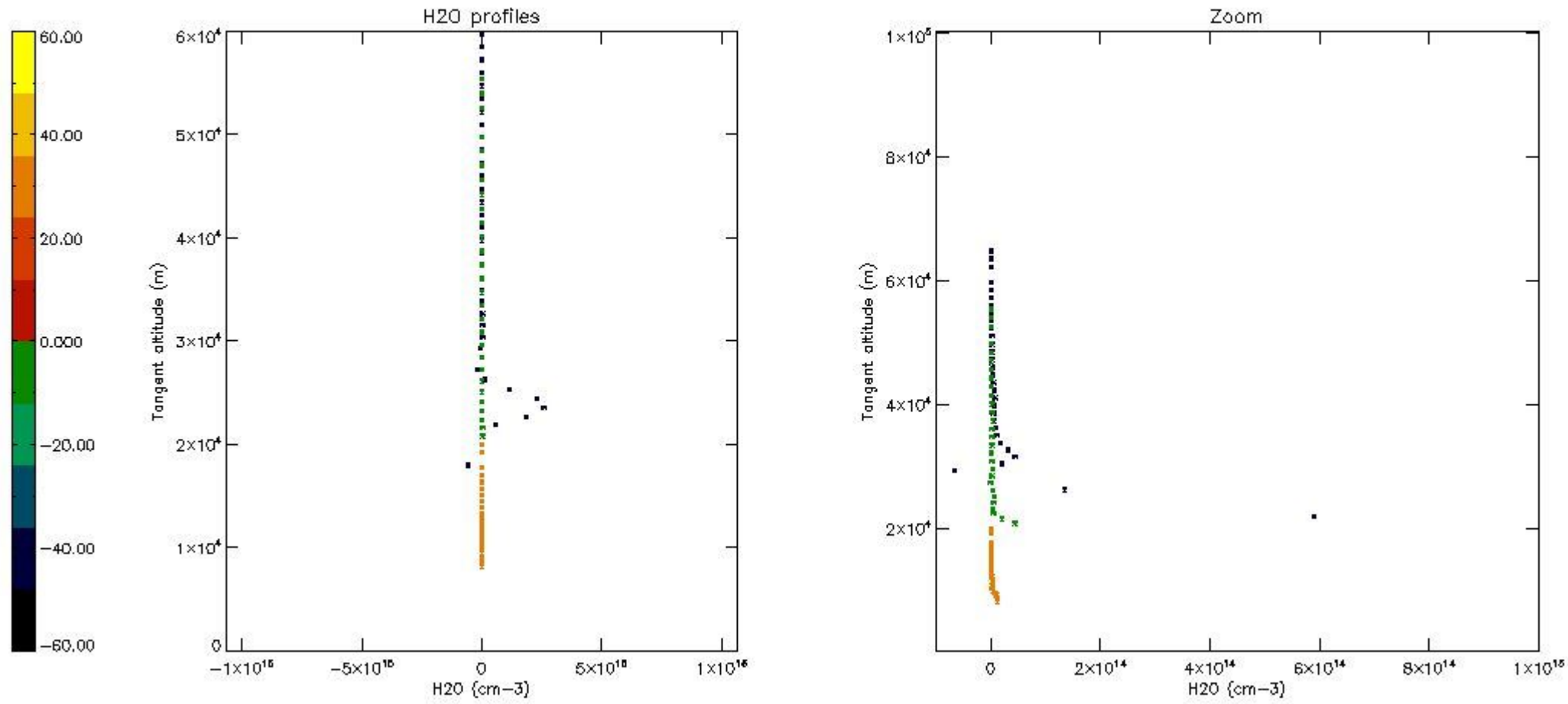
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



5.8 Plot H2O profiles for all STD (only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors)

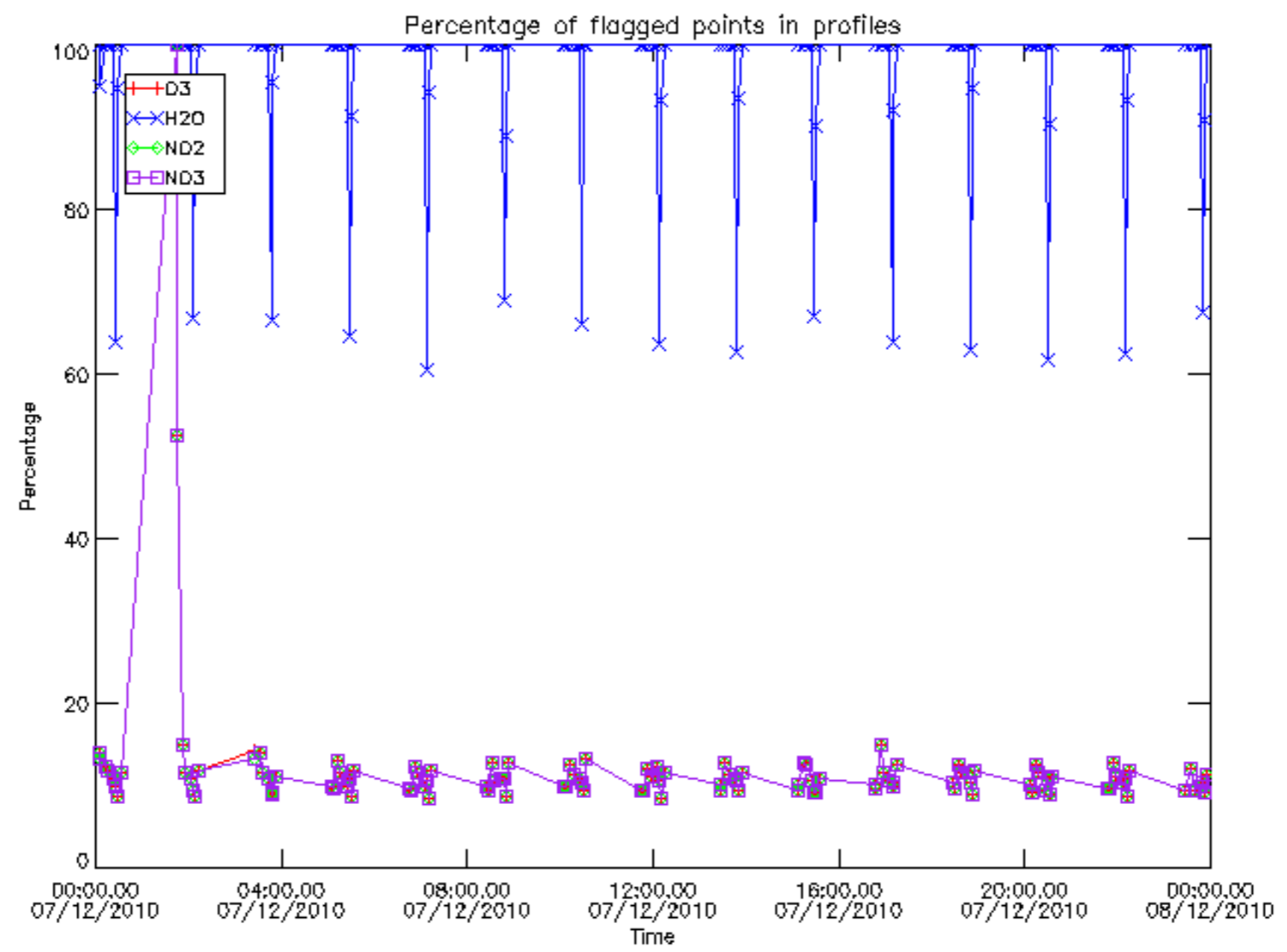
The colorbar represents the latitude.



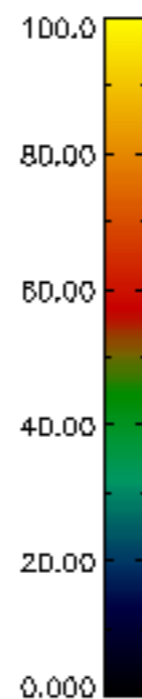
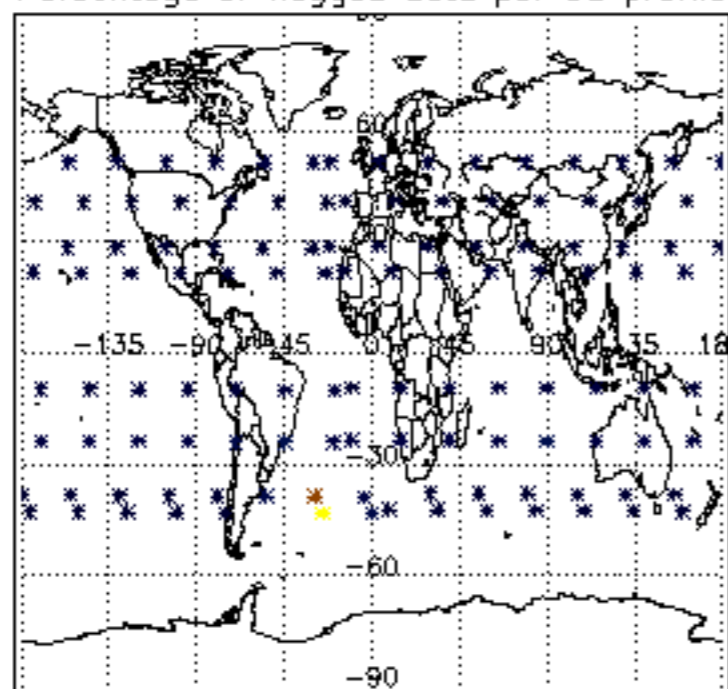
6. Auxiliary Data Files used for the production reported in section 2

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

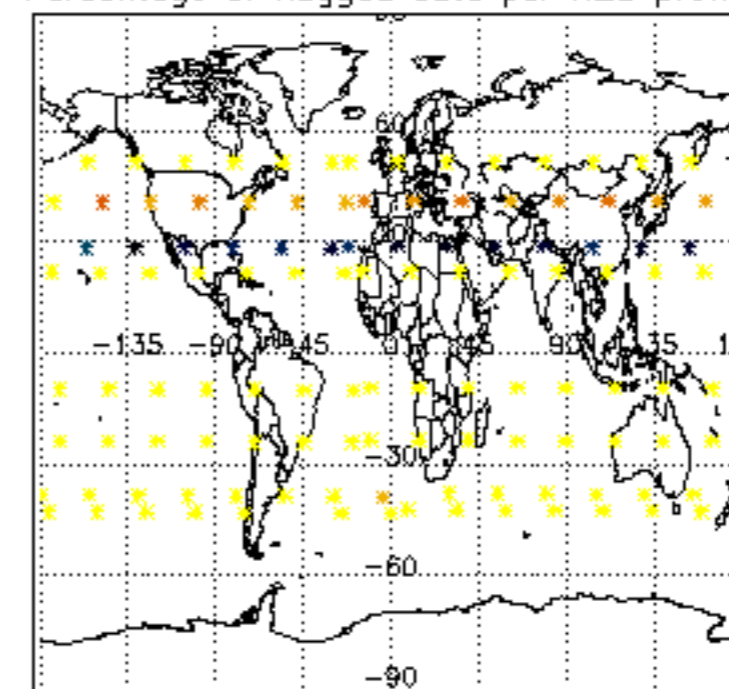
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	07-DEC-2010 00:03:58
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	07-DEC-2010 00:03:58
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	07-DEC-2010 00:03:58



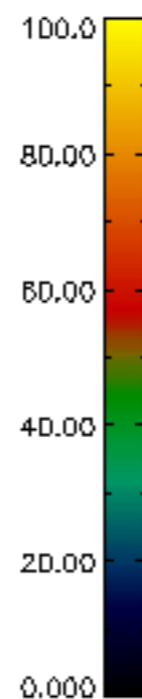
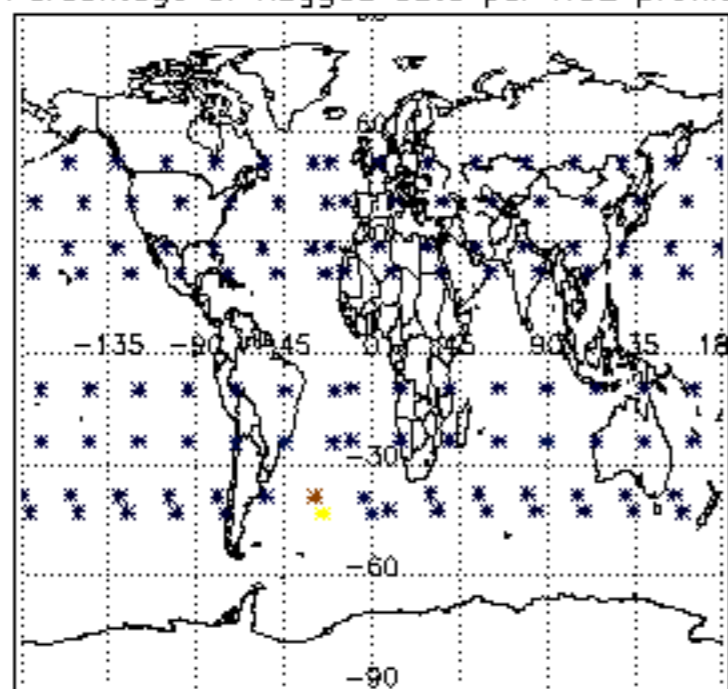
Percentage of flagged data per D3 profile



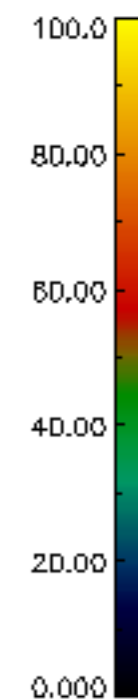
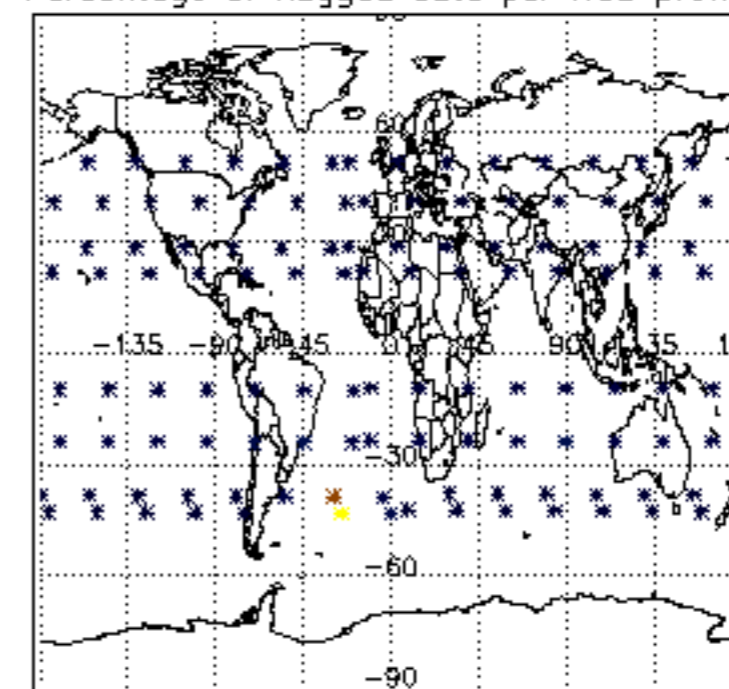
Percentage of flagged data per H2O profile

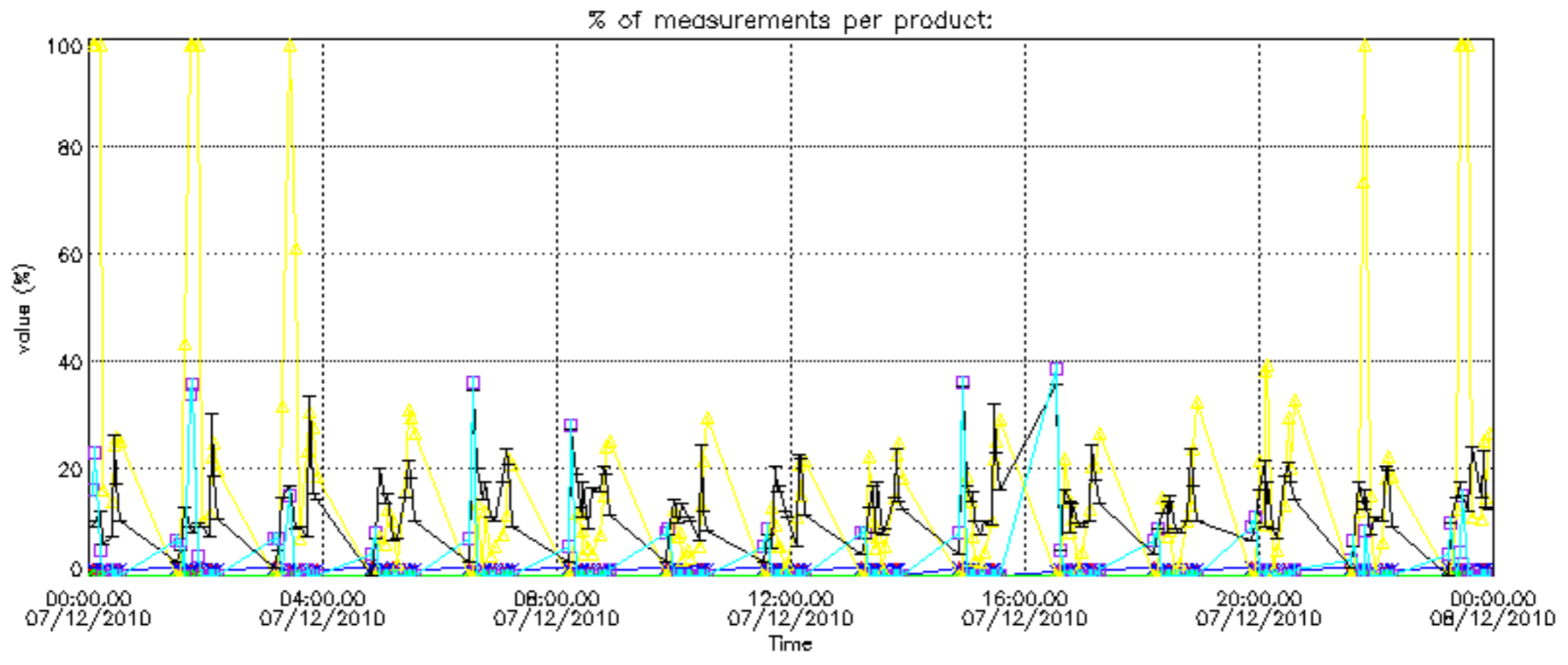


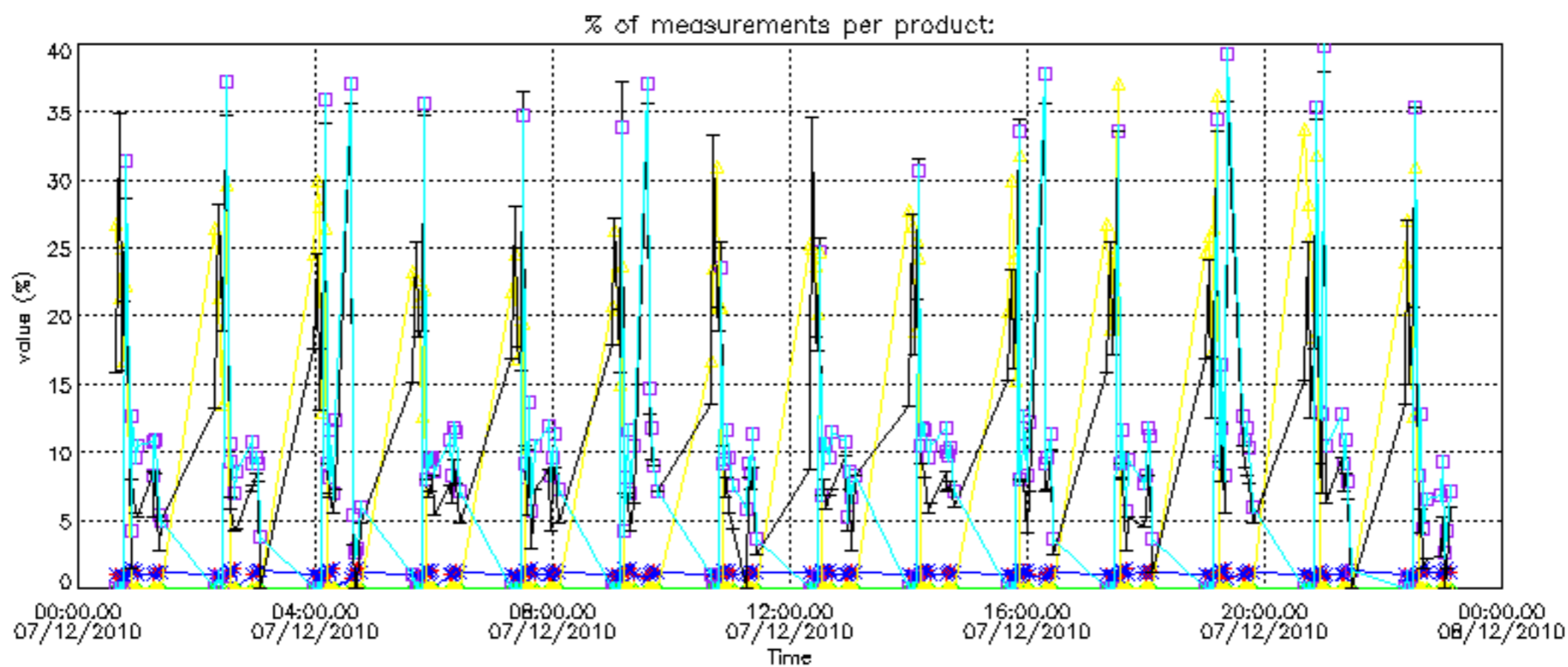
Percentage of flagged data per NO2 profile



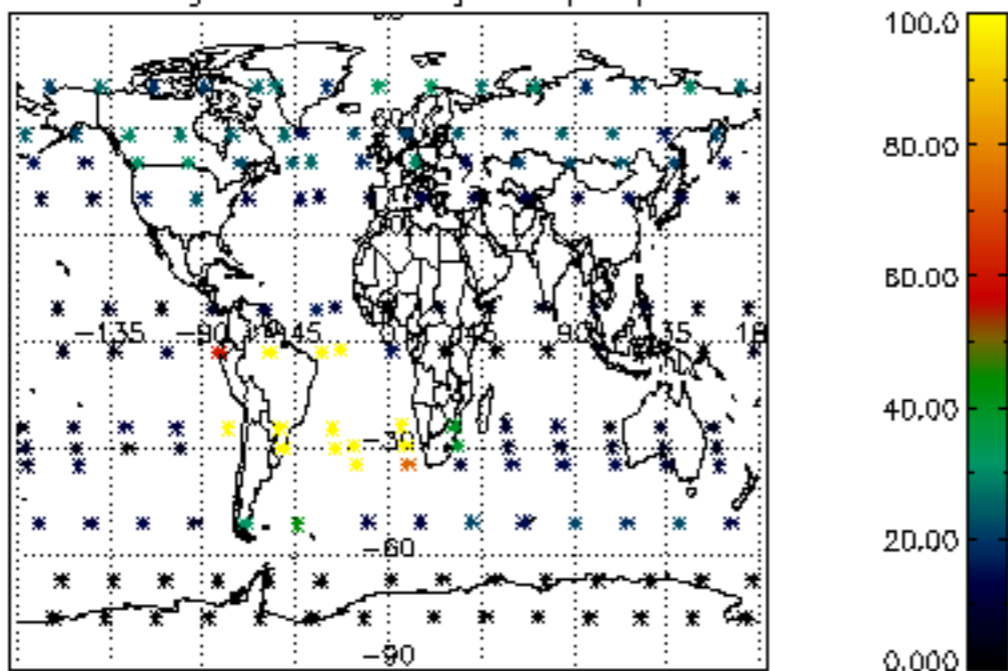
Percentage of flagged data per NO3 profile



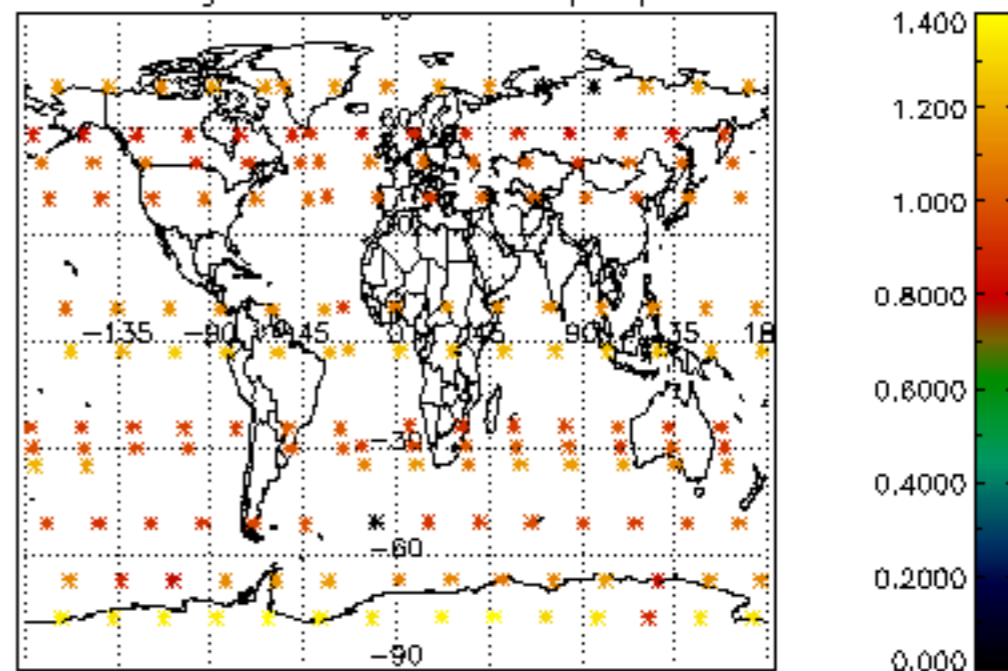




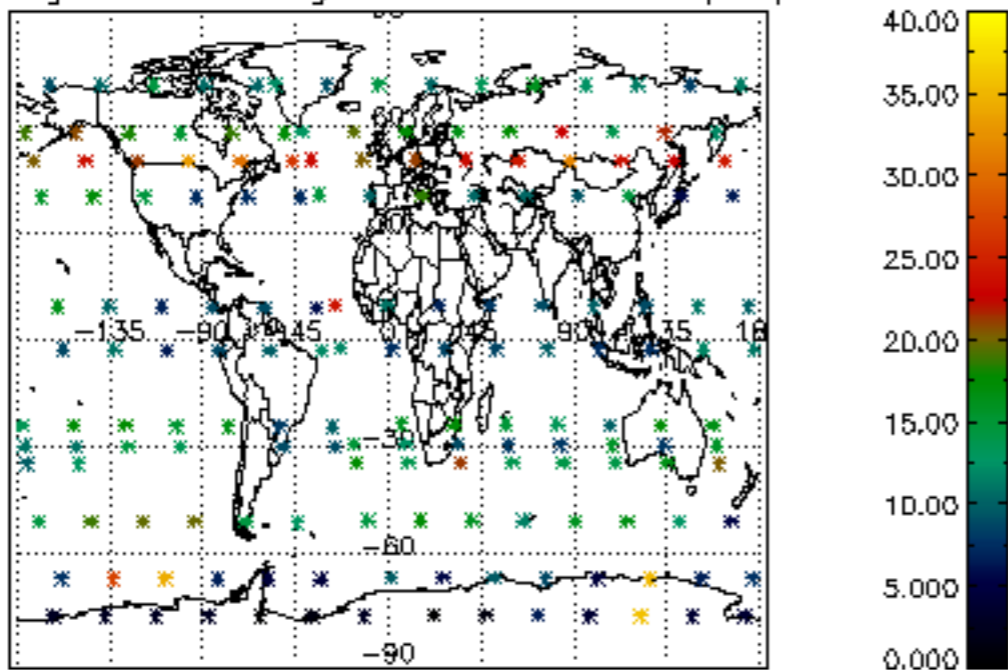
Percentage of cosmic ray hits per profile



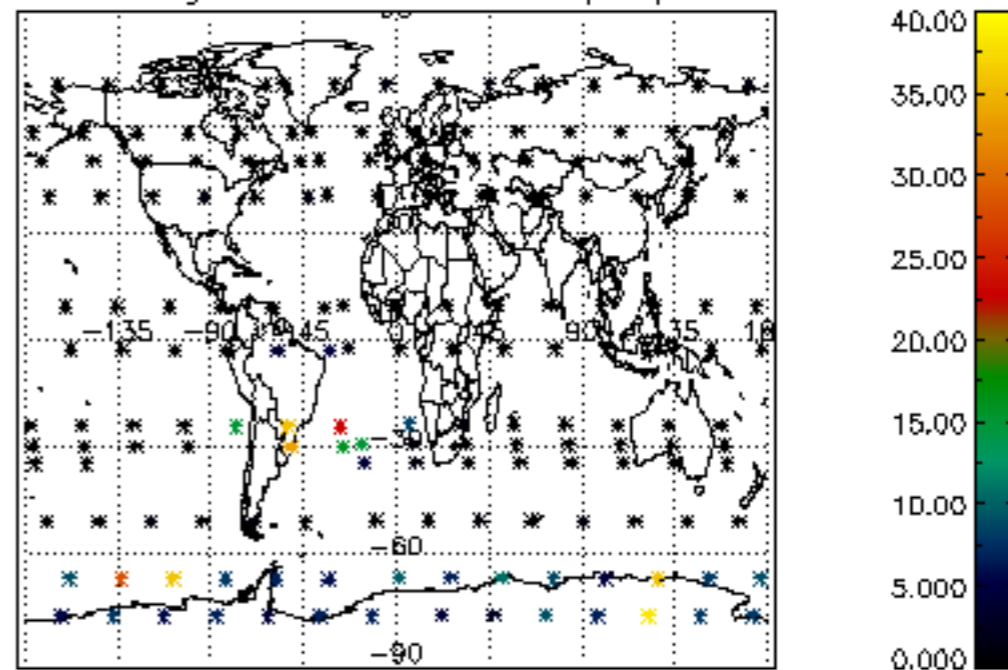
Percentage of datation errors per profile



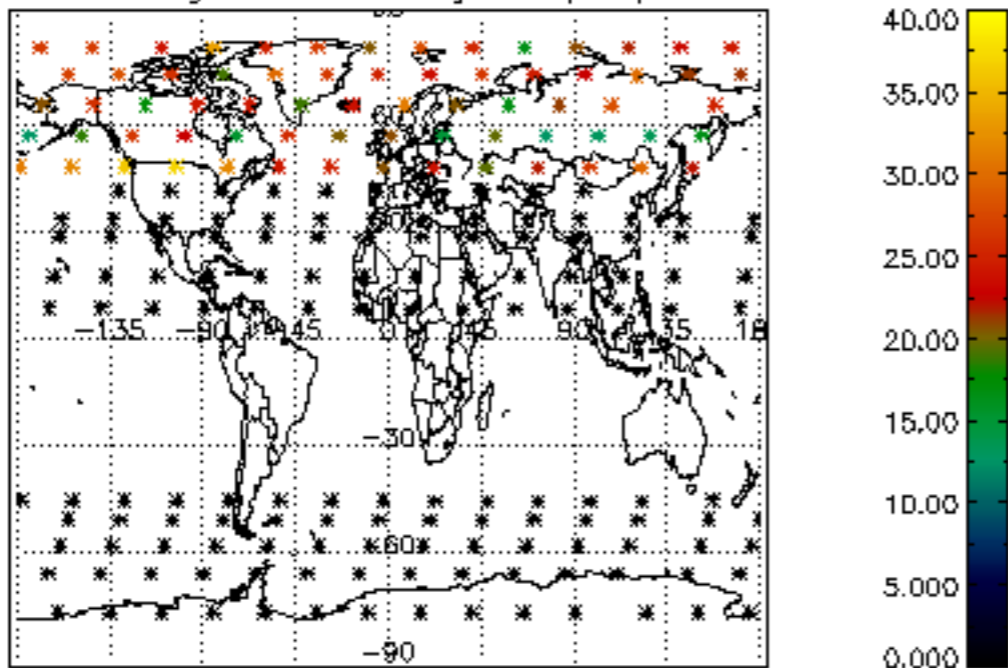
Percentage of star falling outside central band per profile



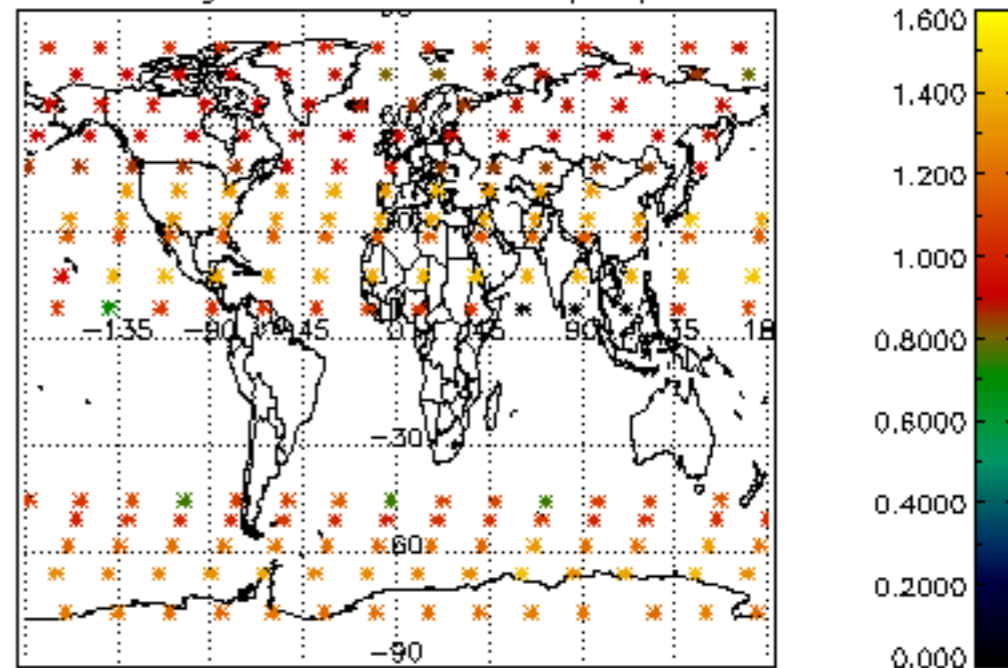
Percentage of saturation errors per profile



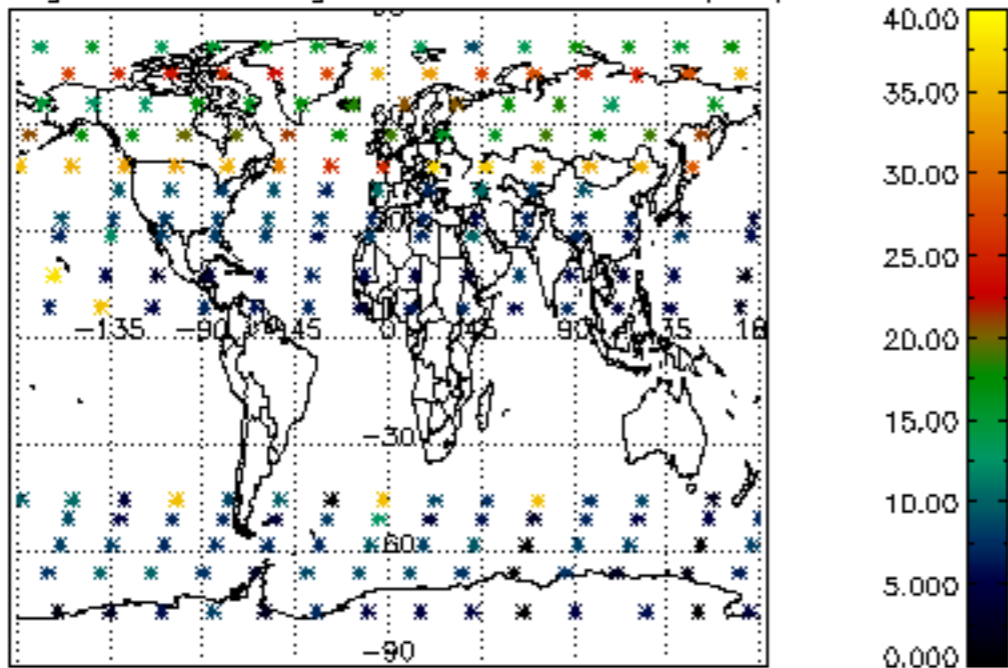
Percentage of cosmic ray hits per profile



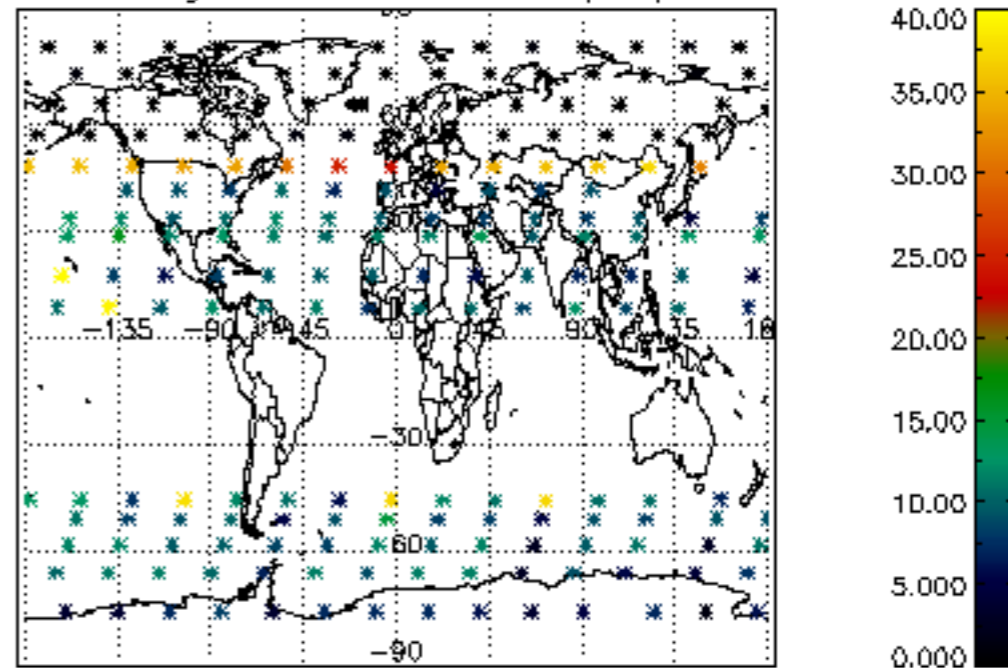
Percentage of datation errors per profile

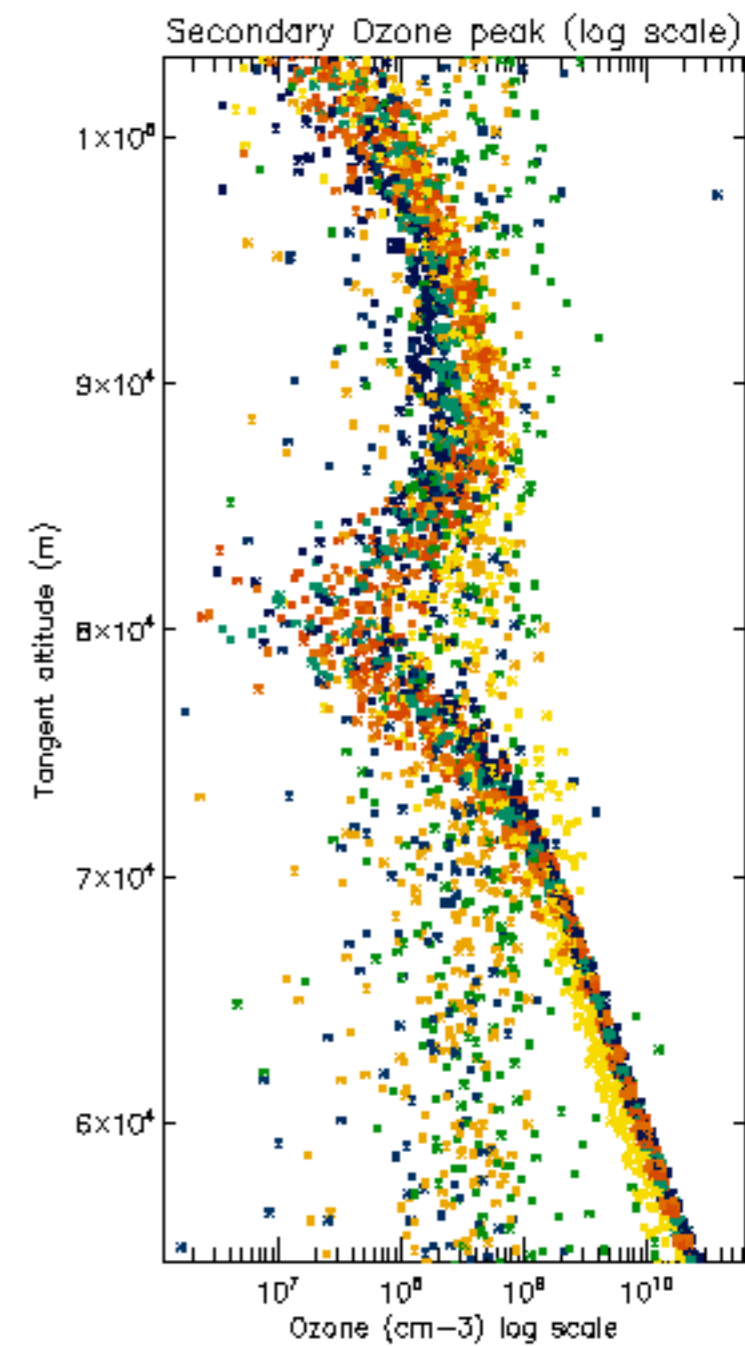
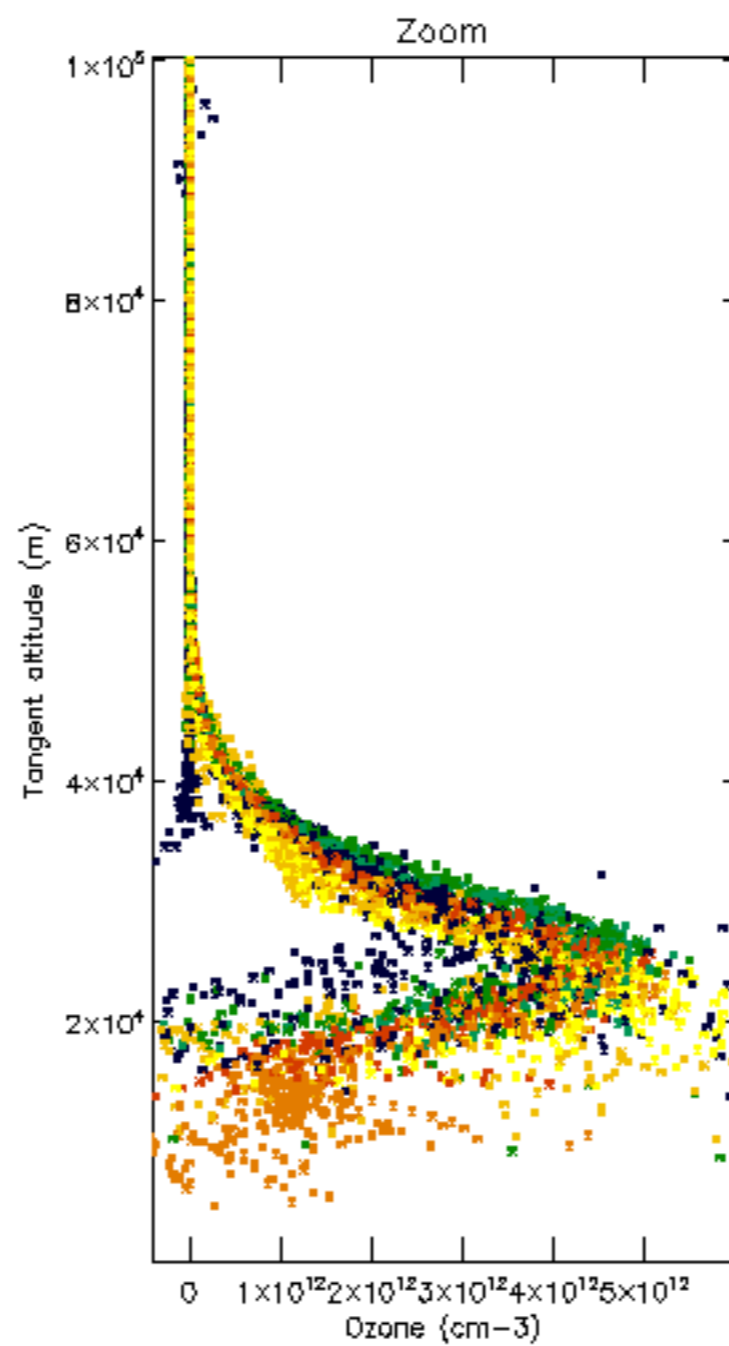
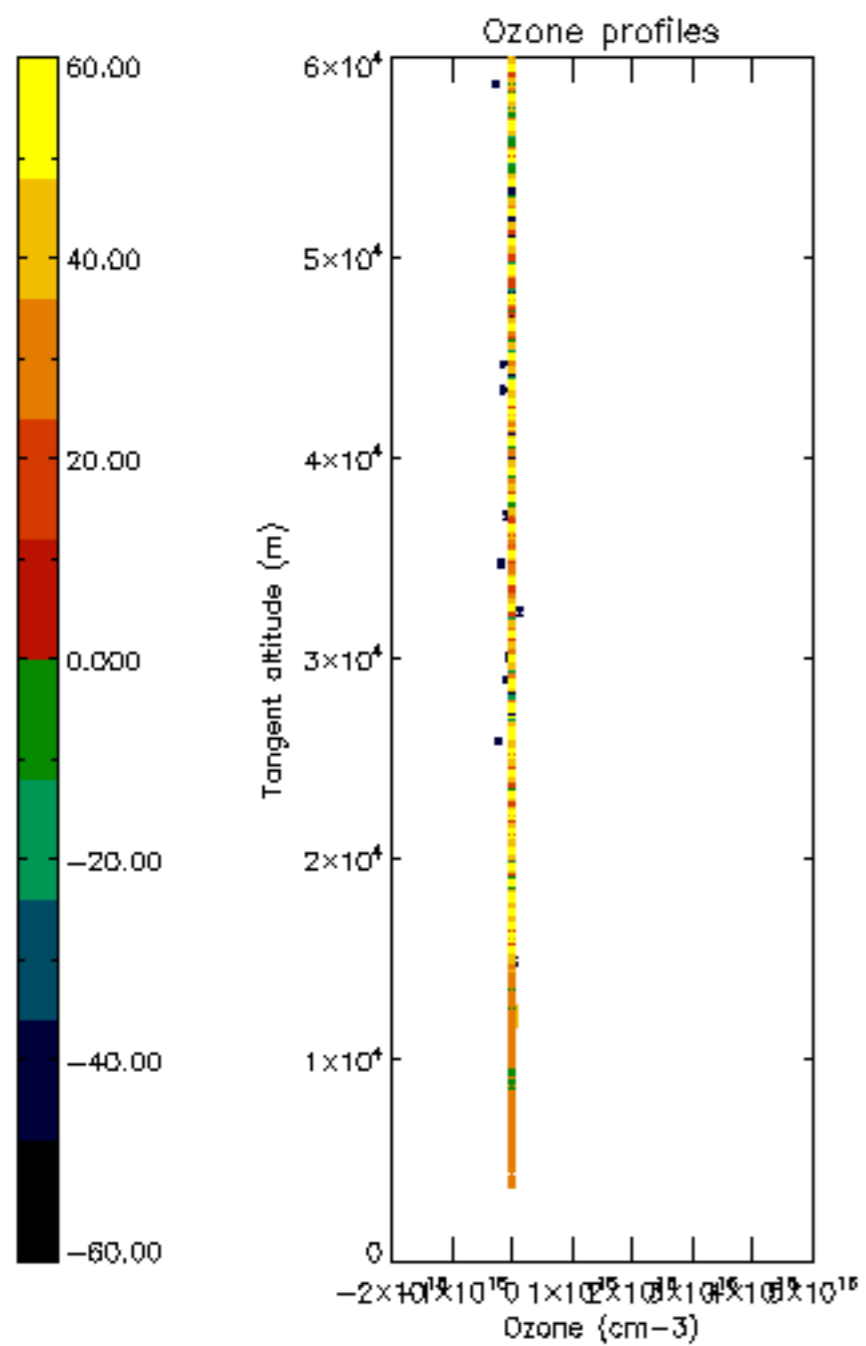


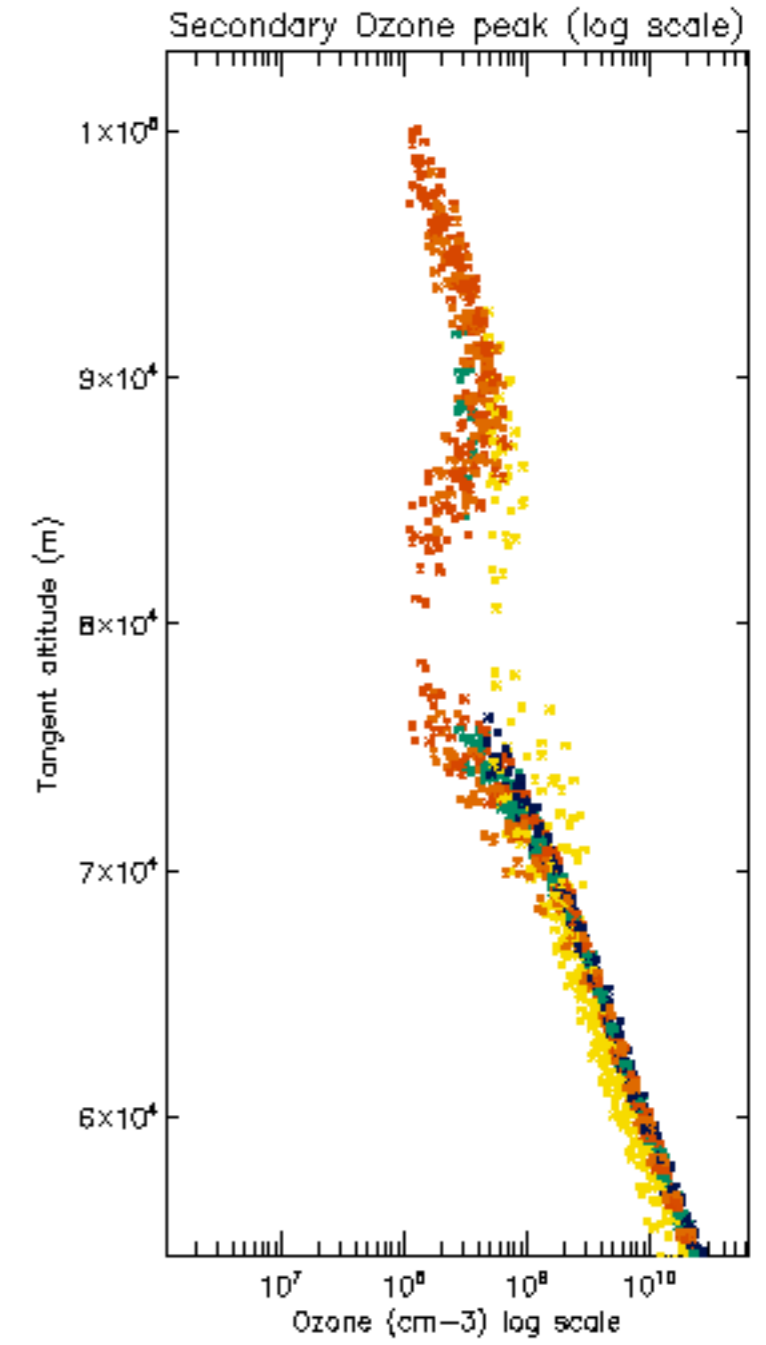
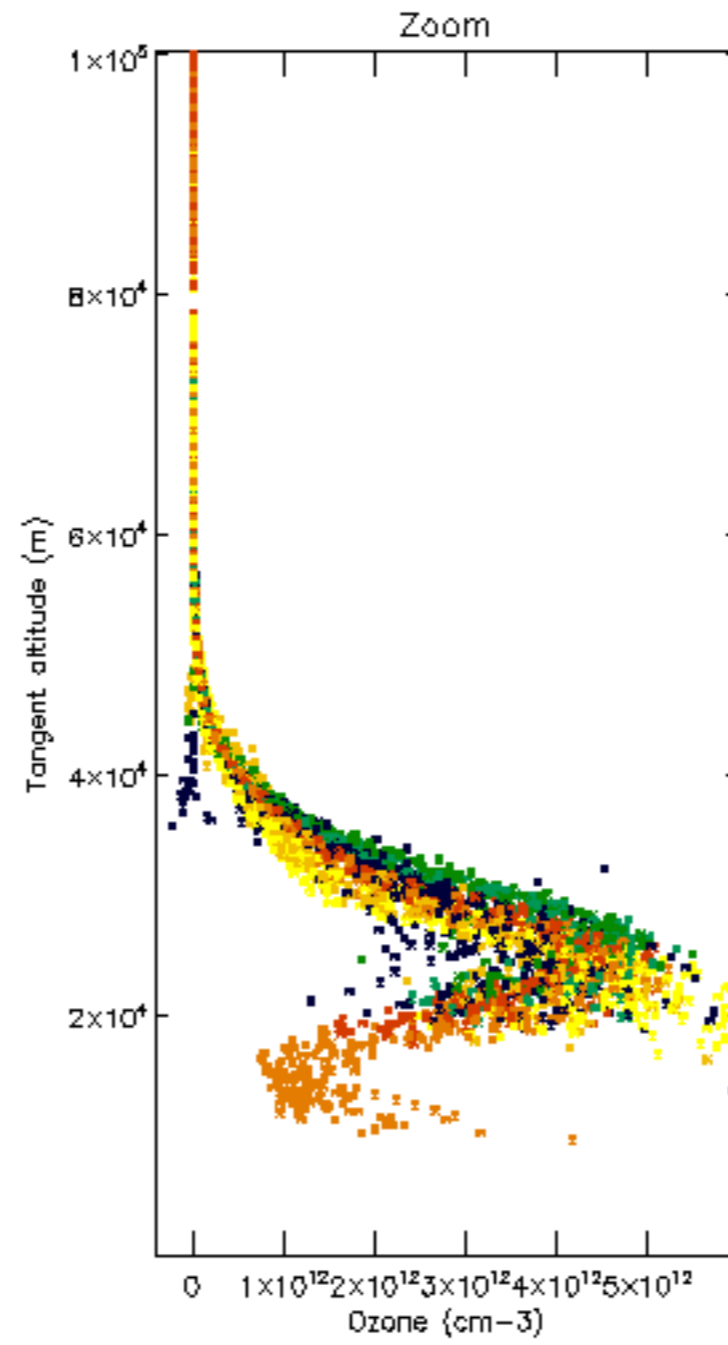
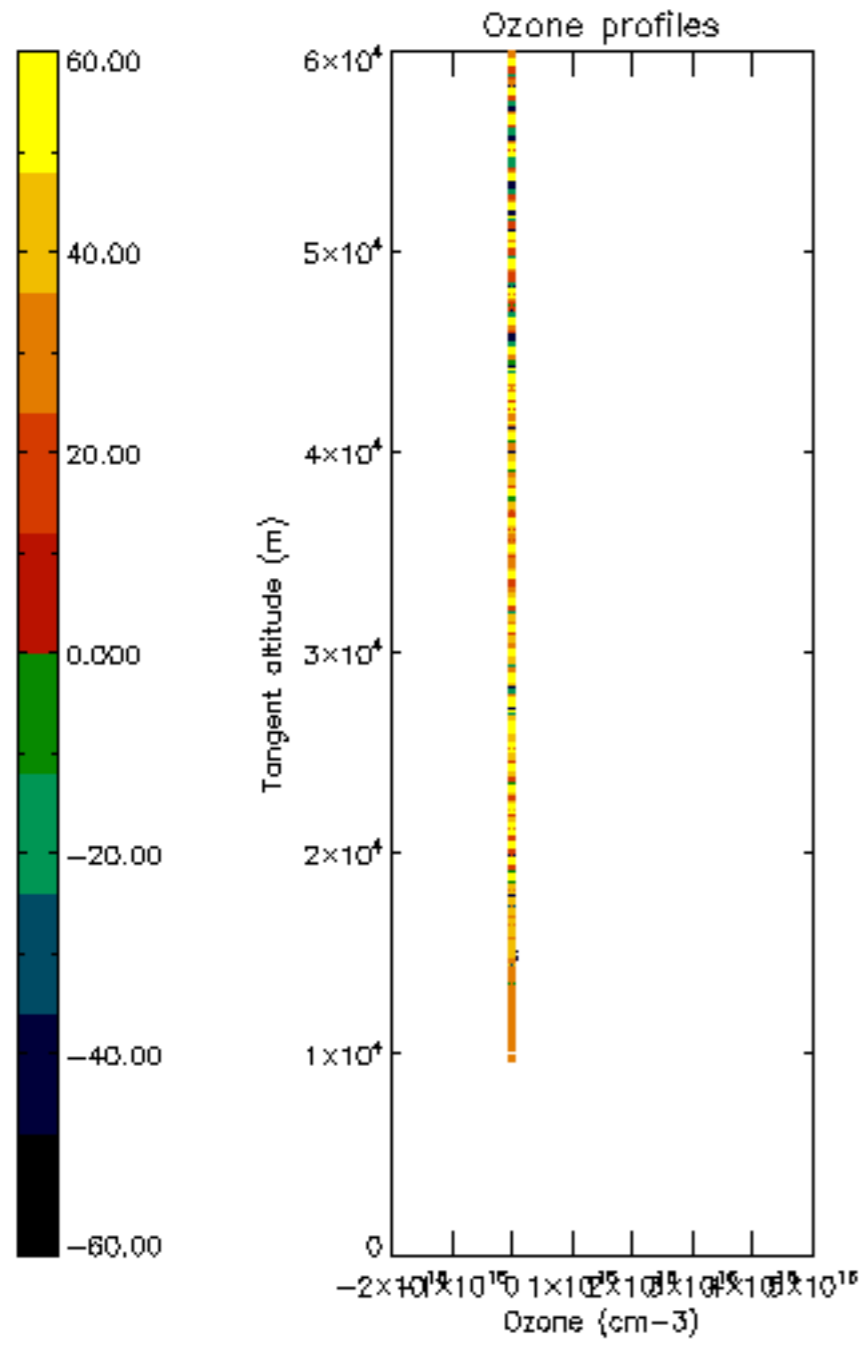
Percentage of star falling outside central band per profile

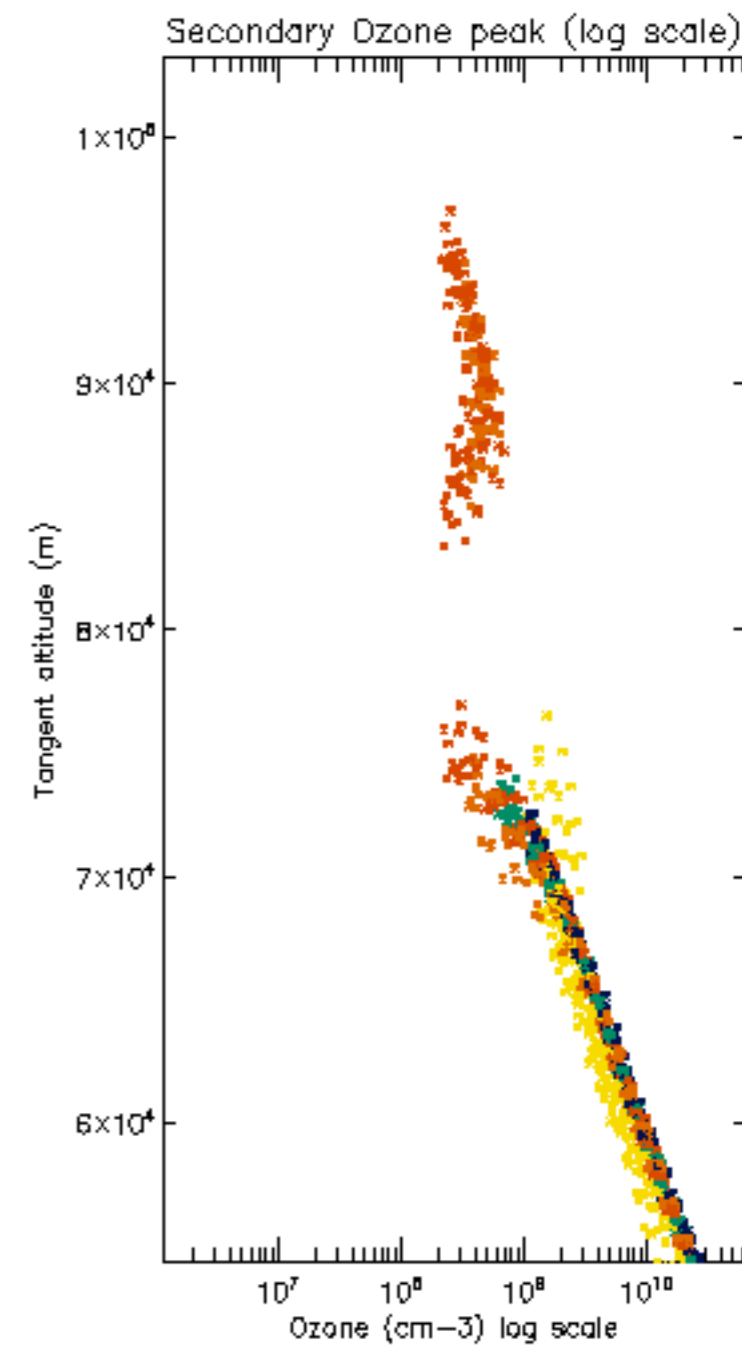
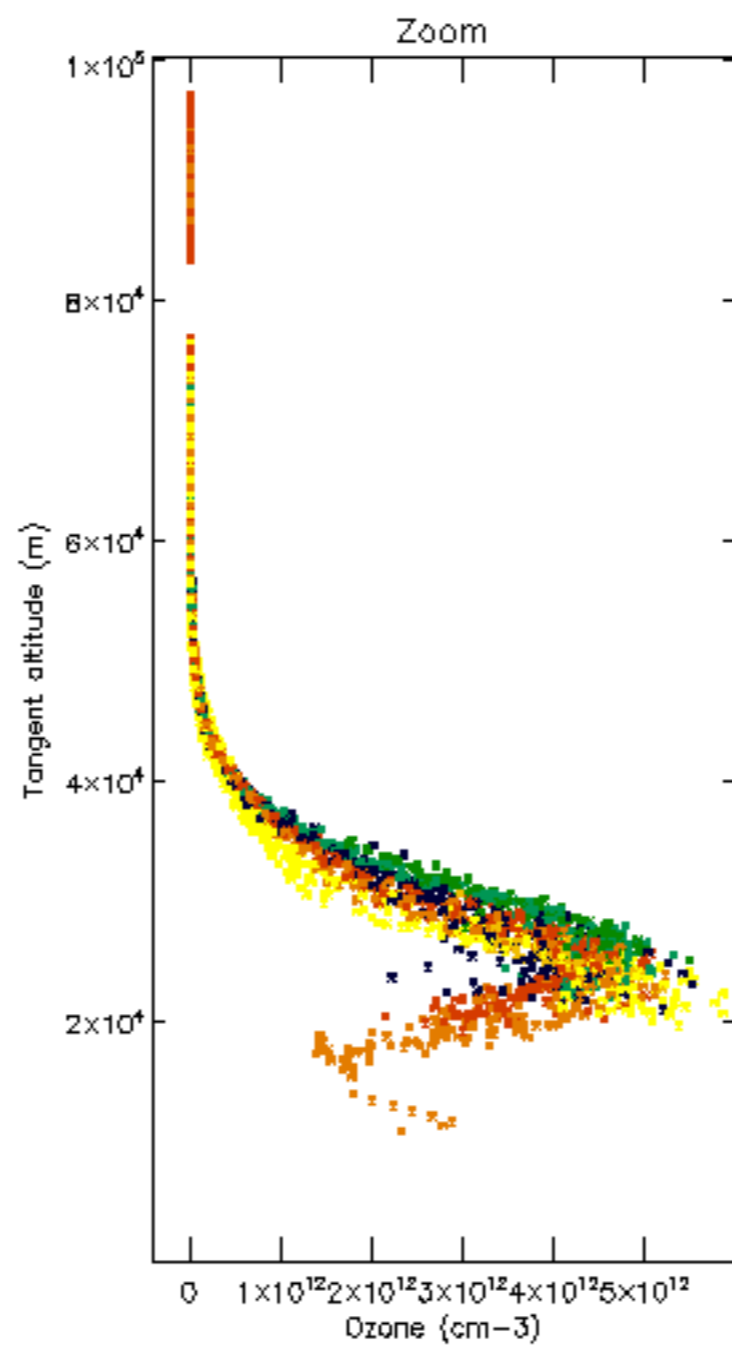
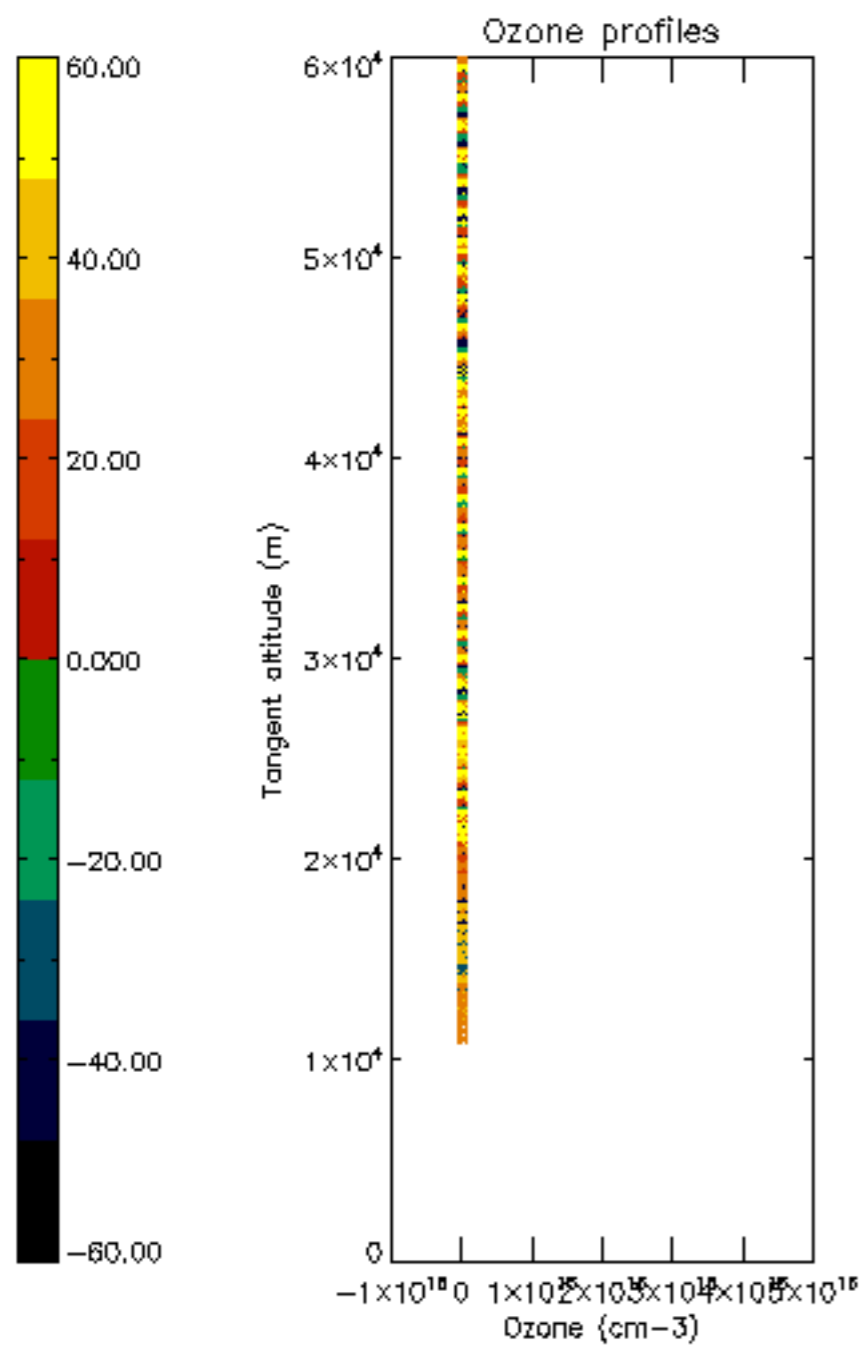


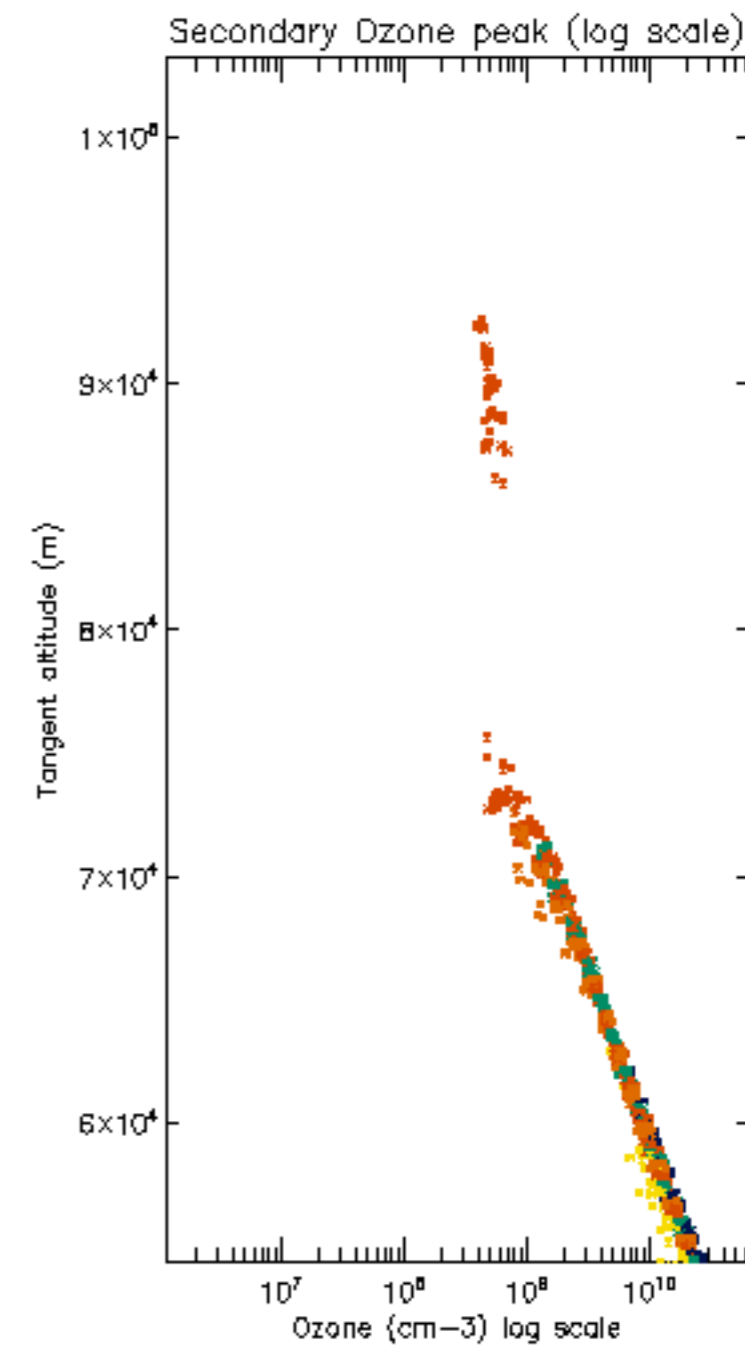
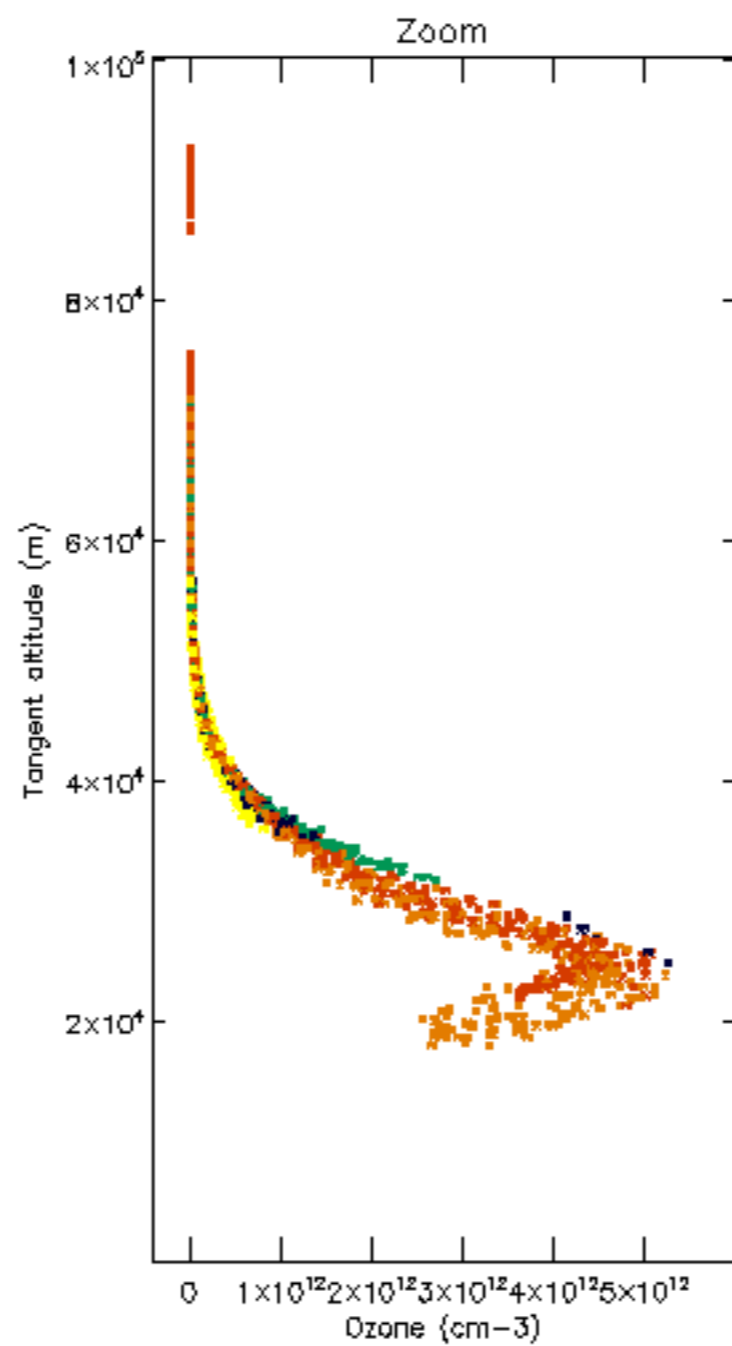
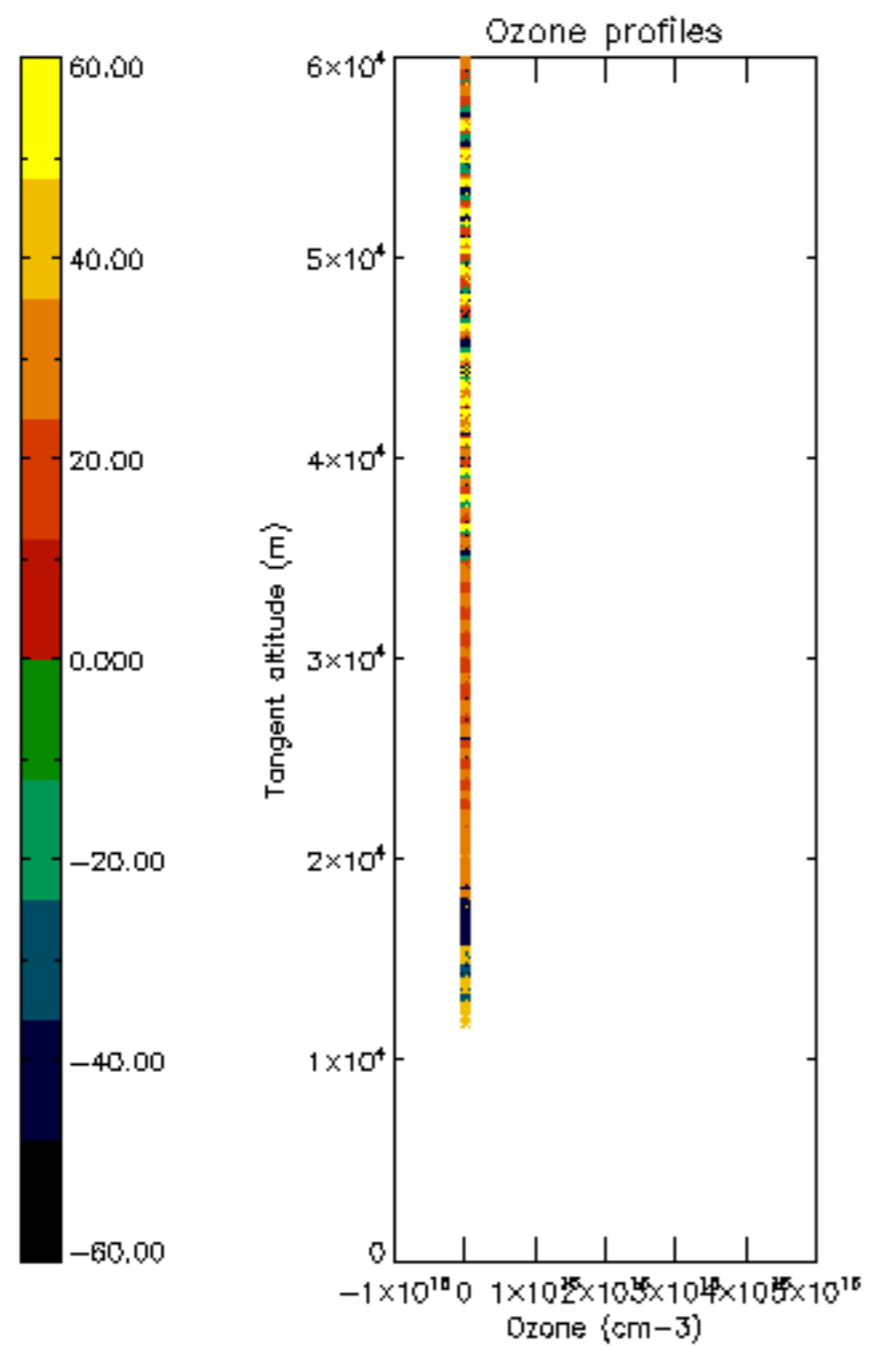
Percentage of saturation errors per profile

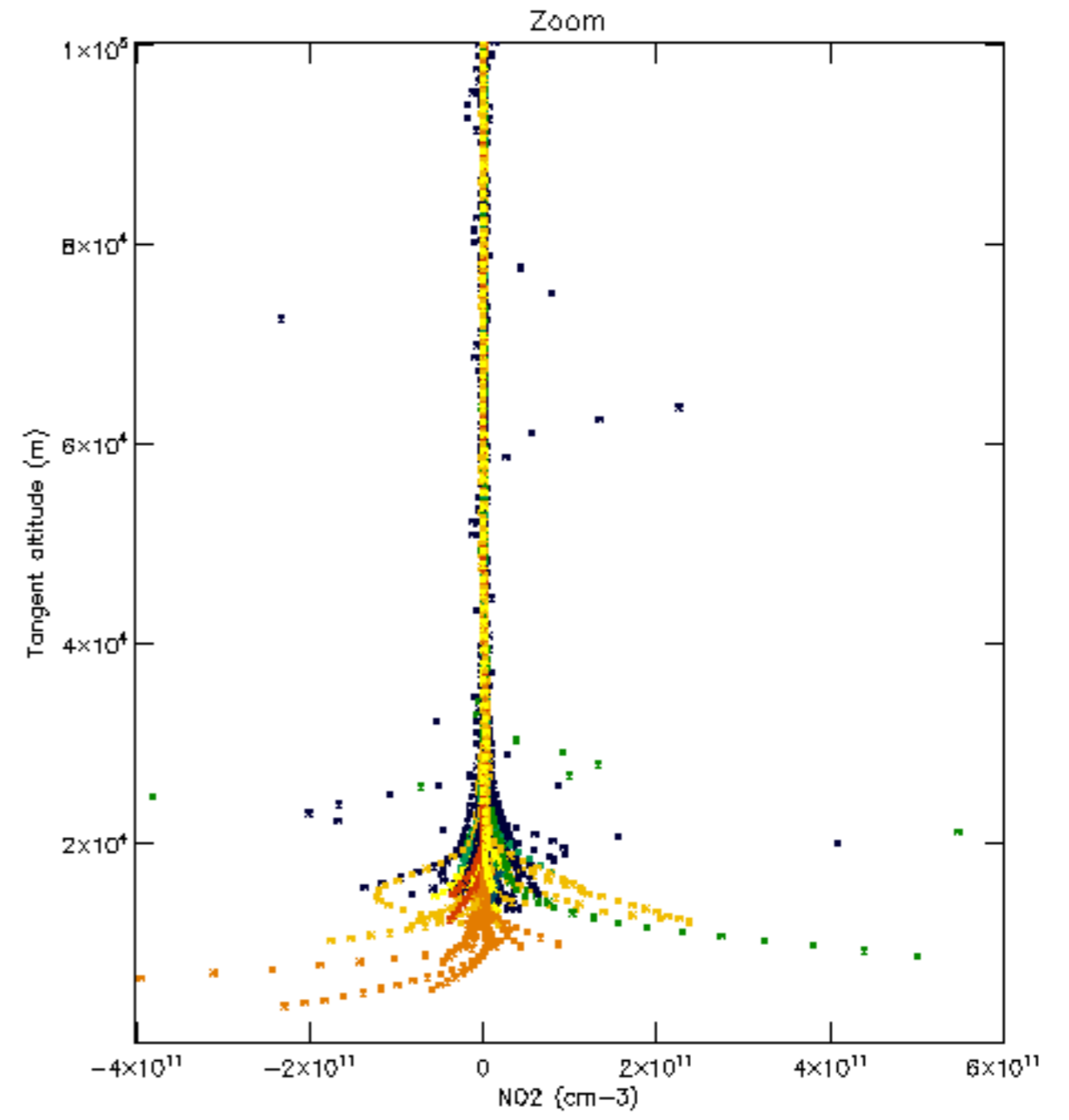
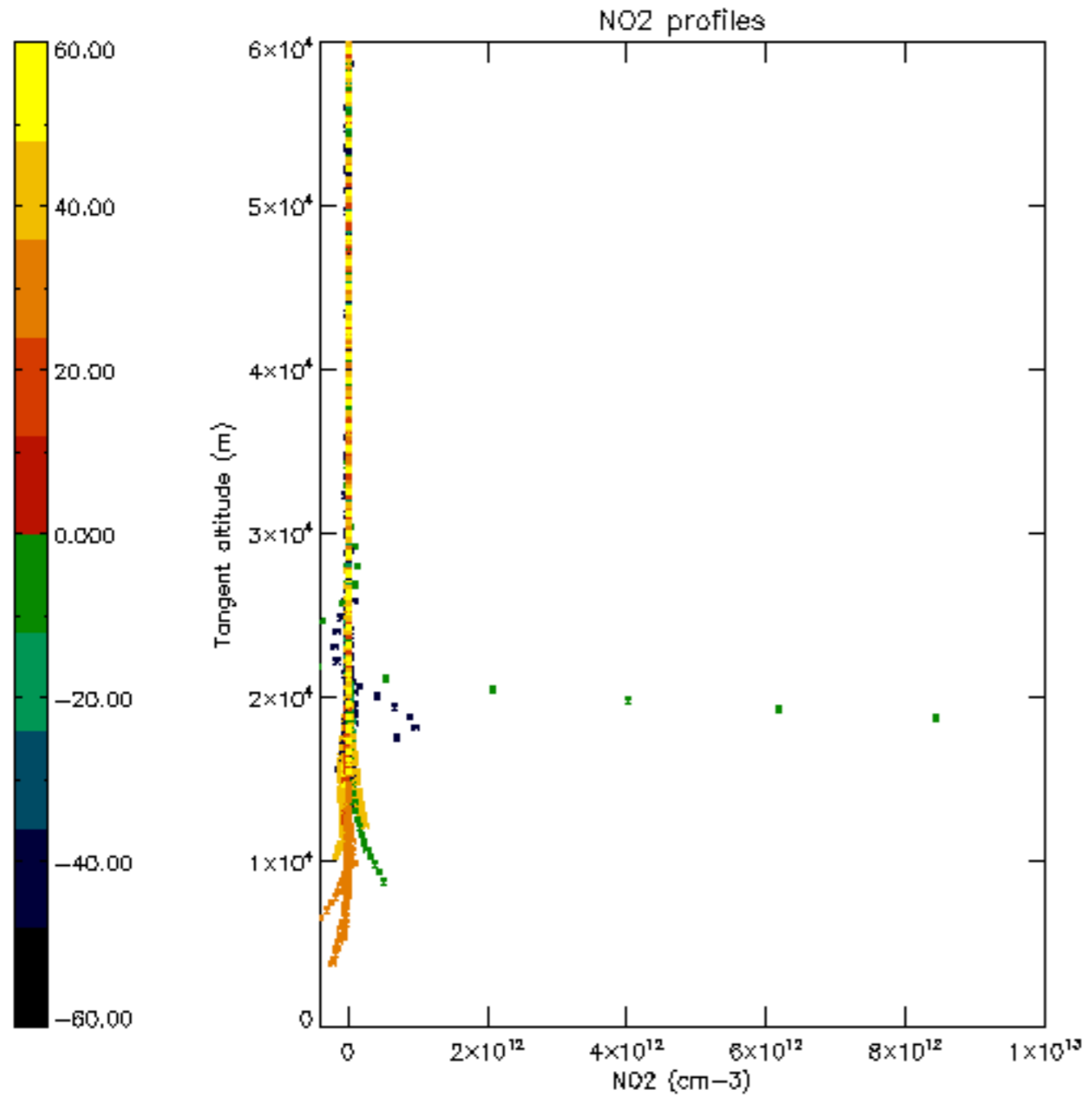


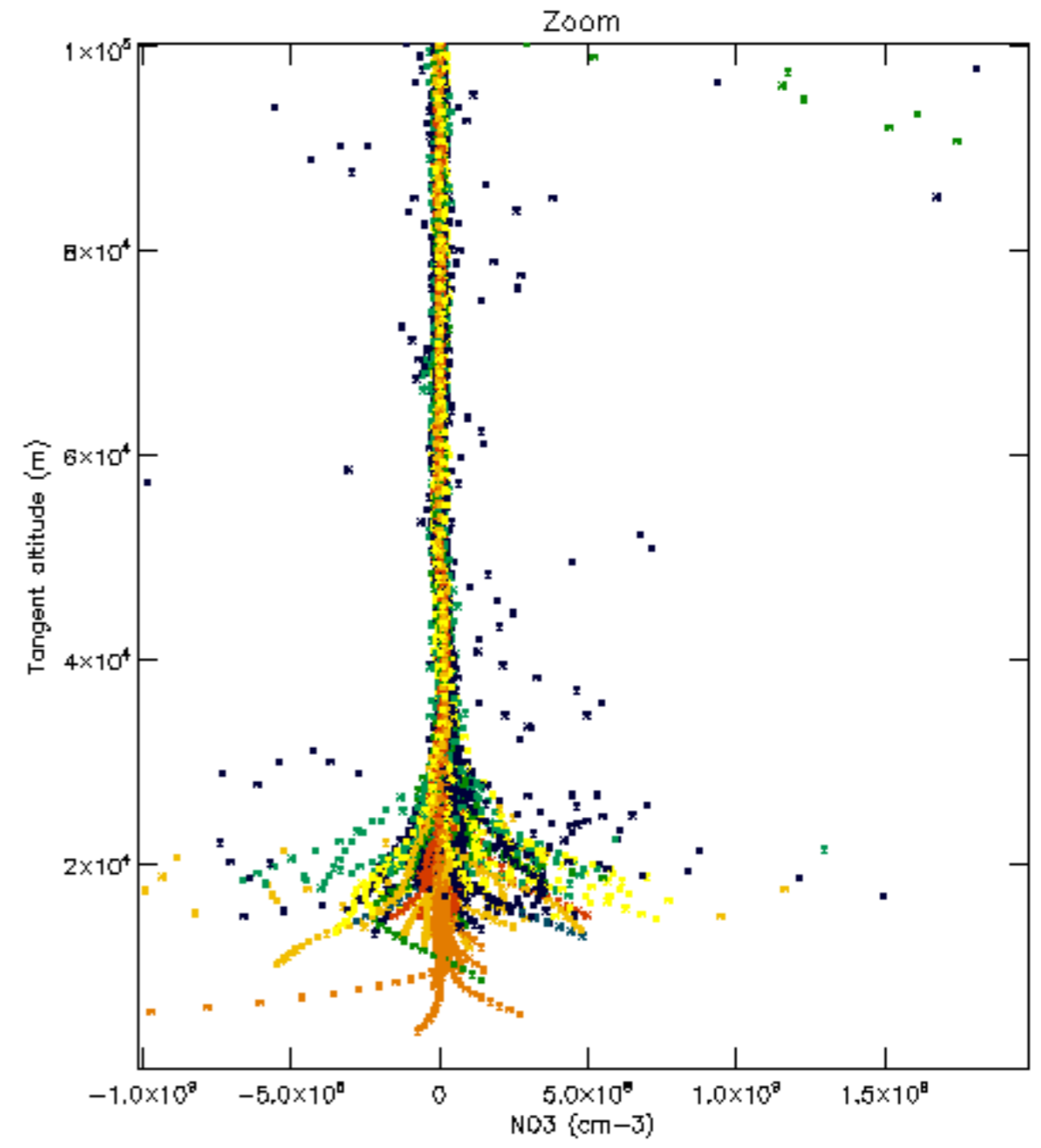
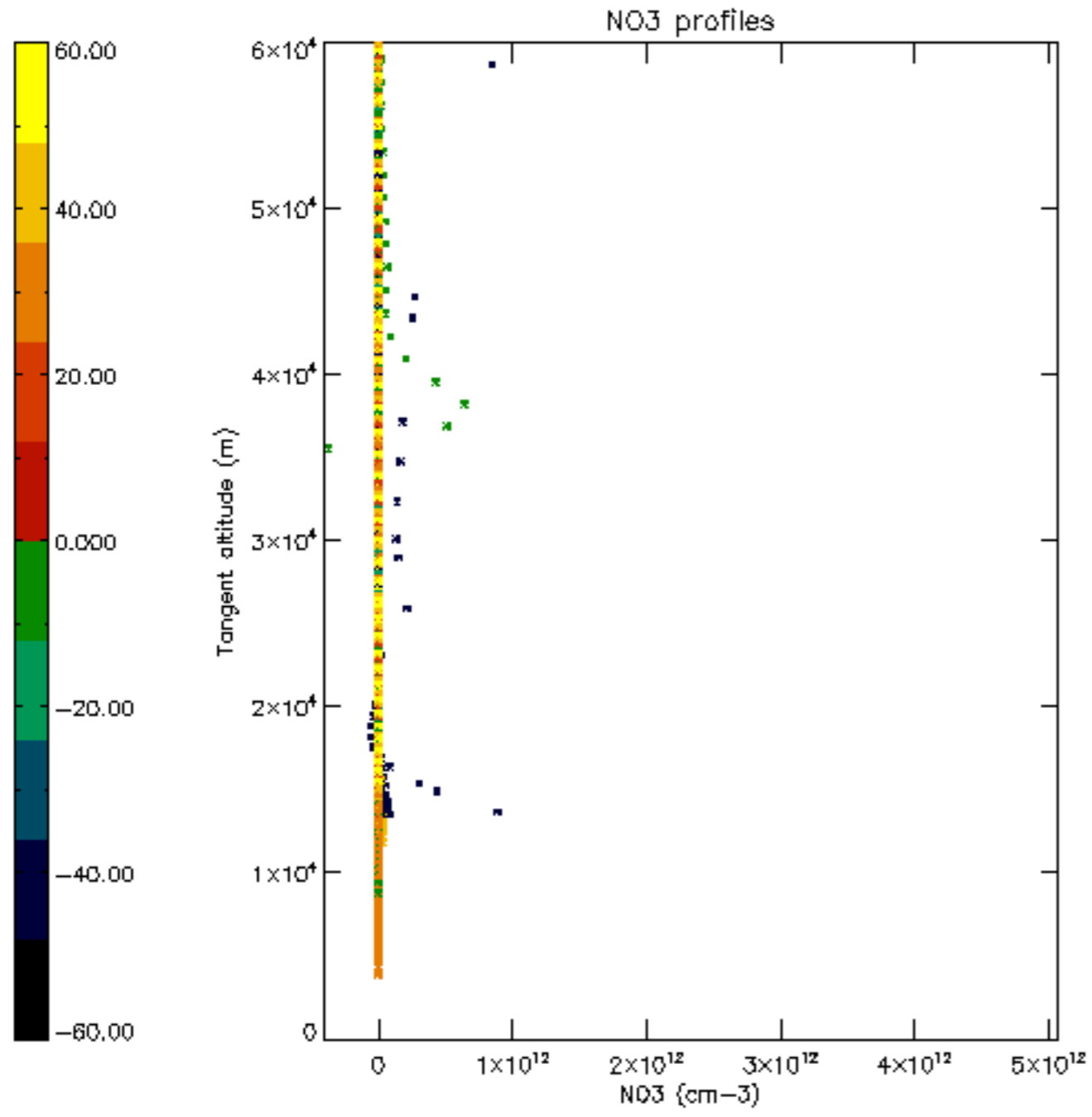


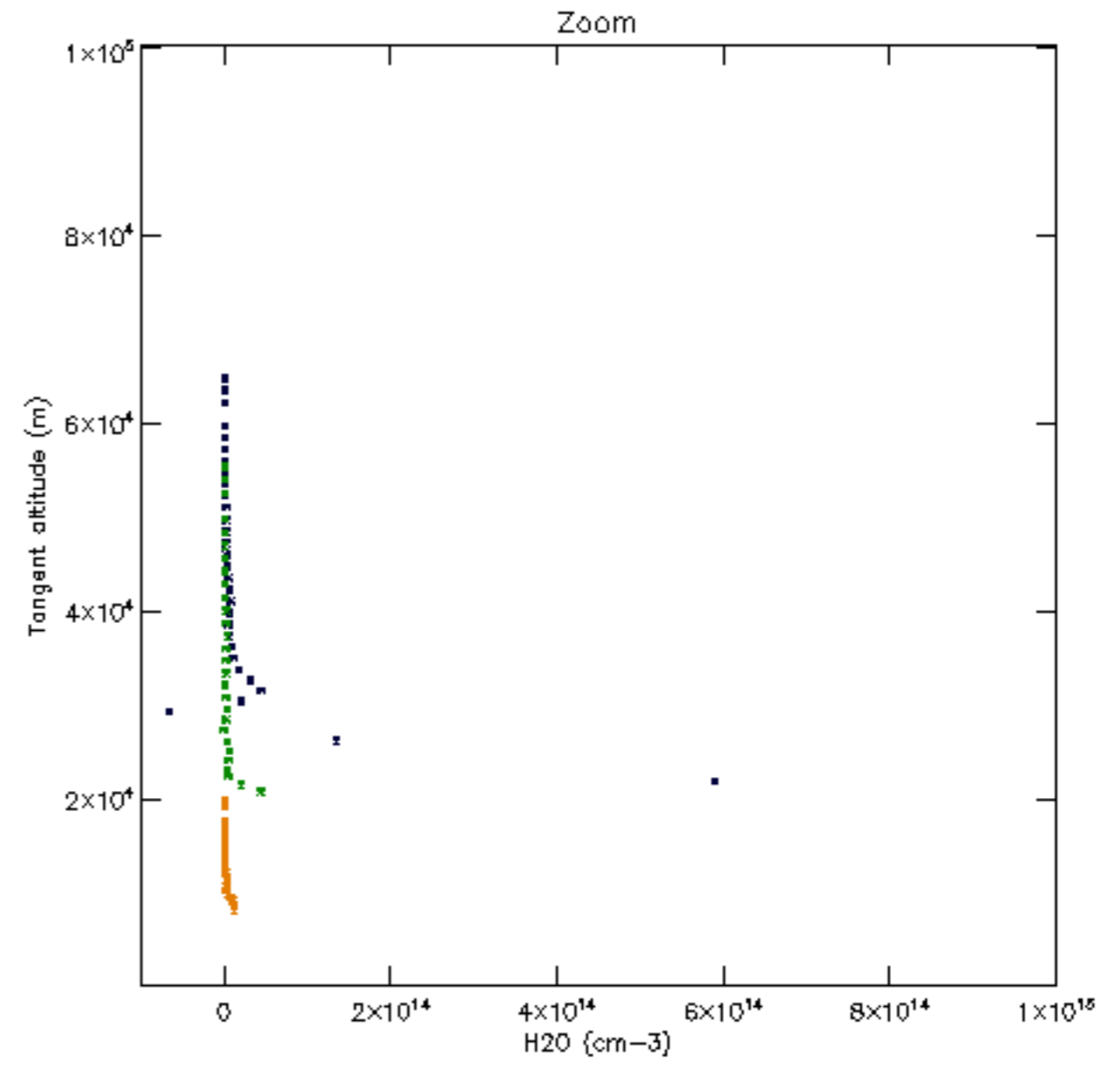
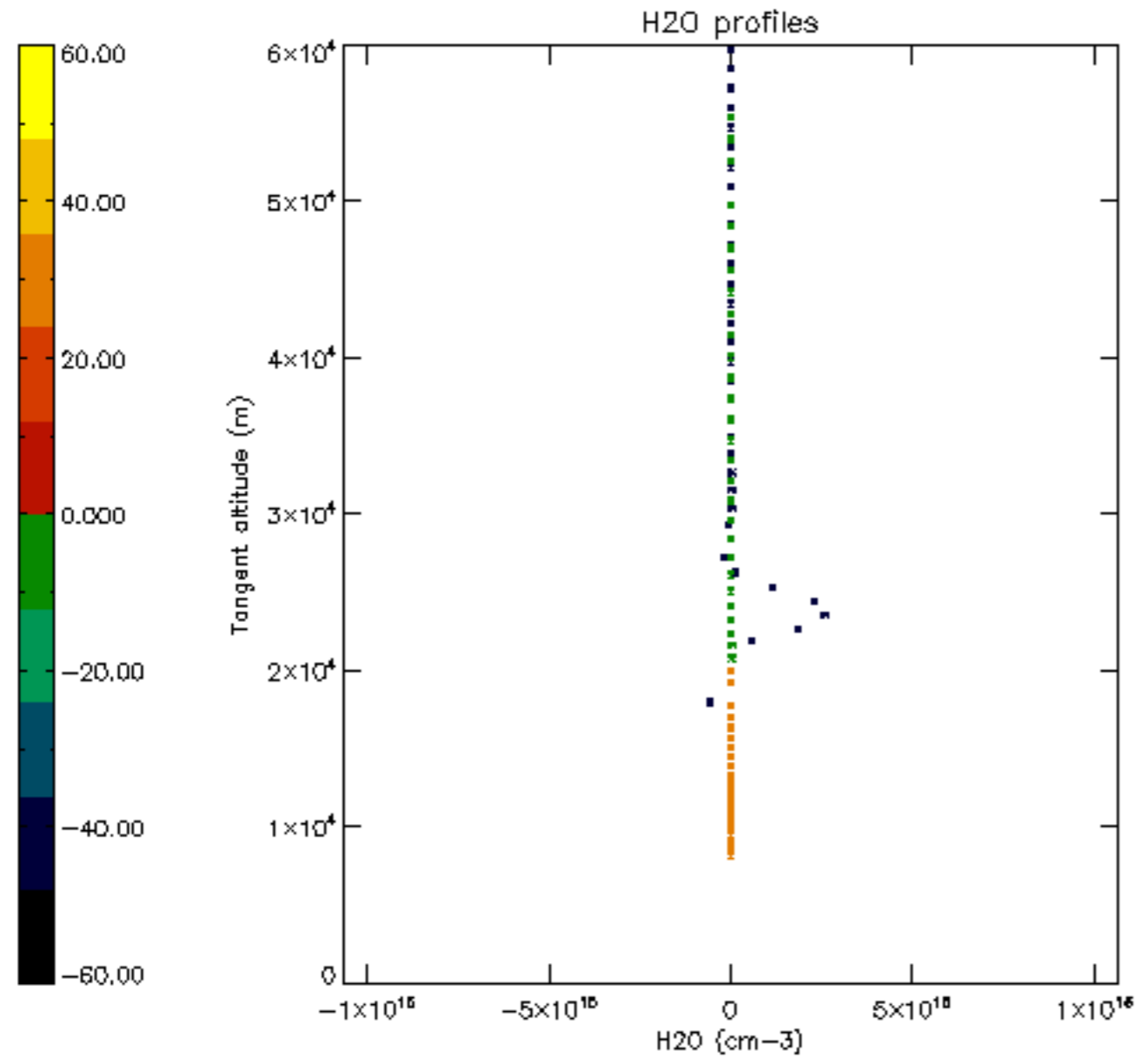


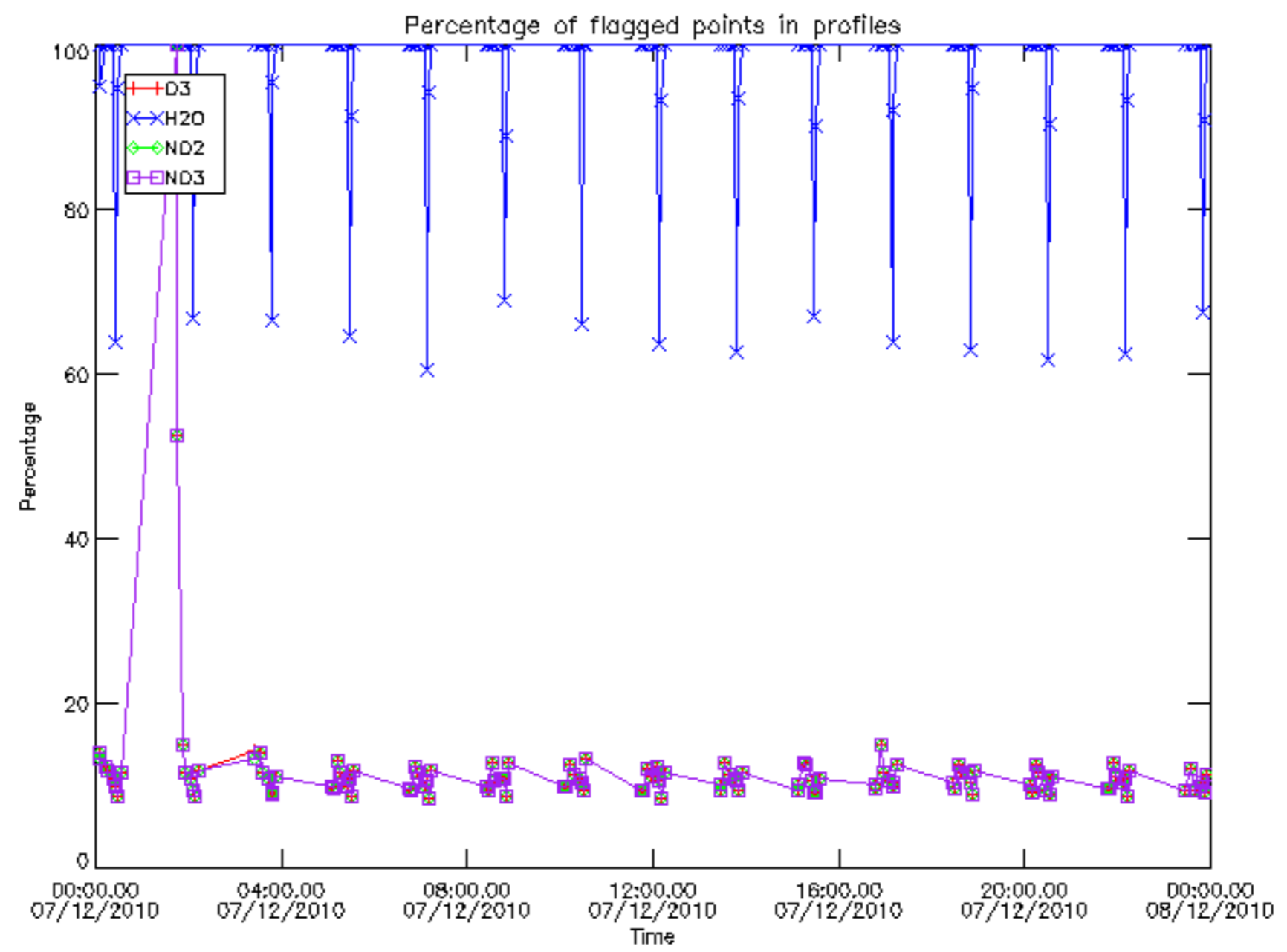




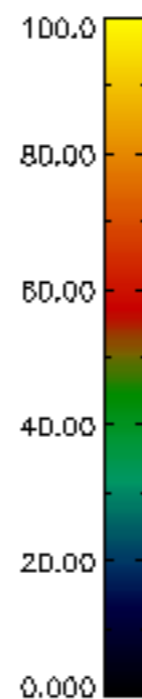
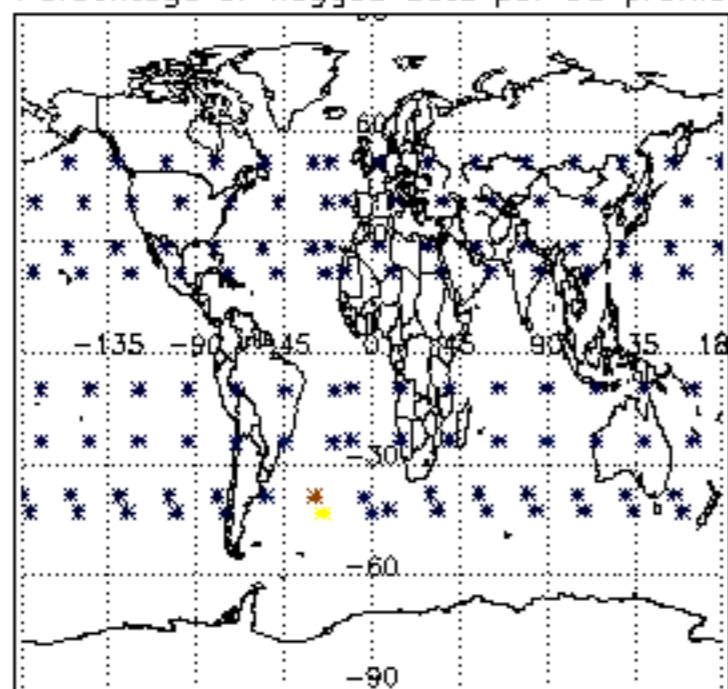




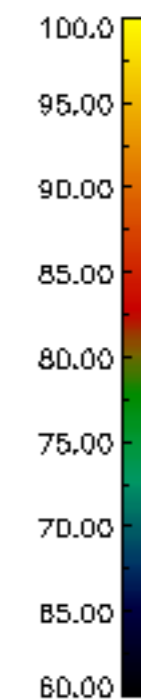
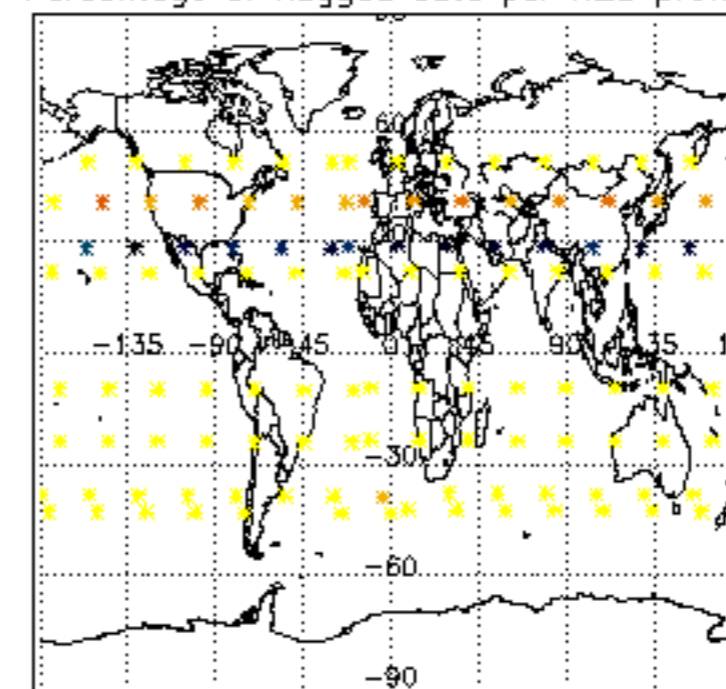




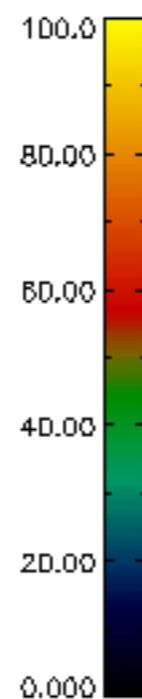
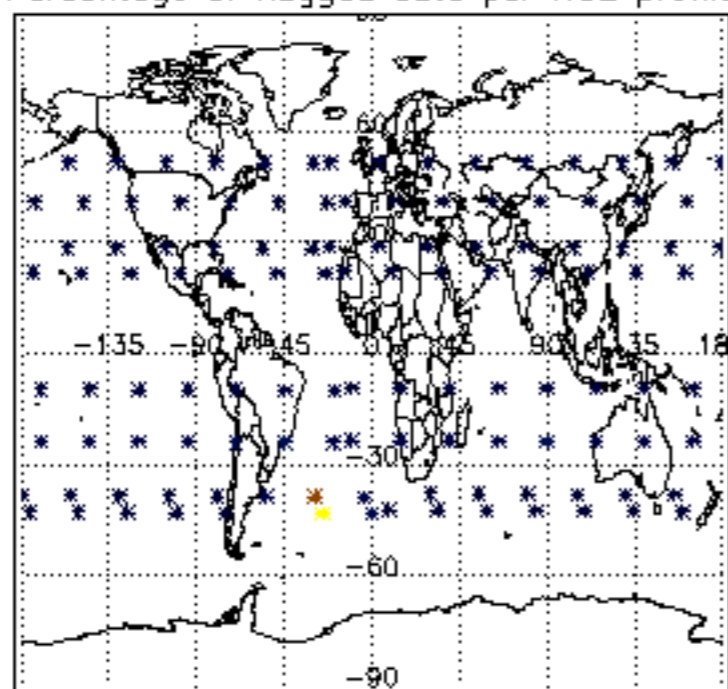
Percentage of flagged data per D3 profile



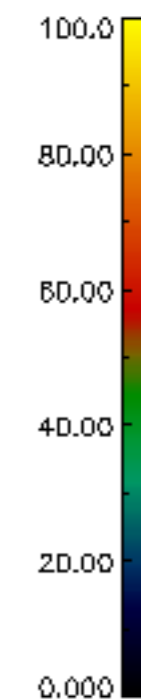
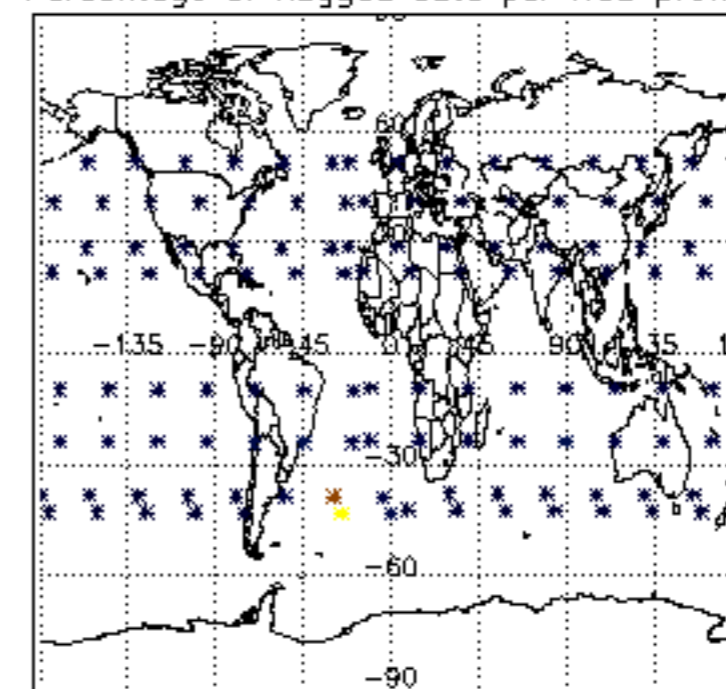
Percentage of flagged data per H2O profile

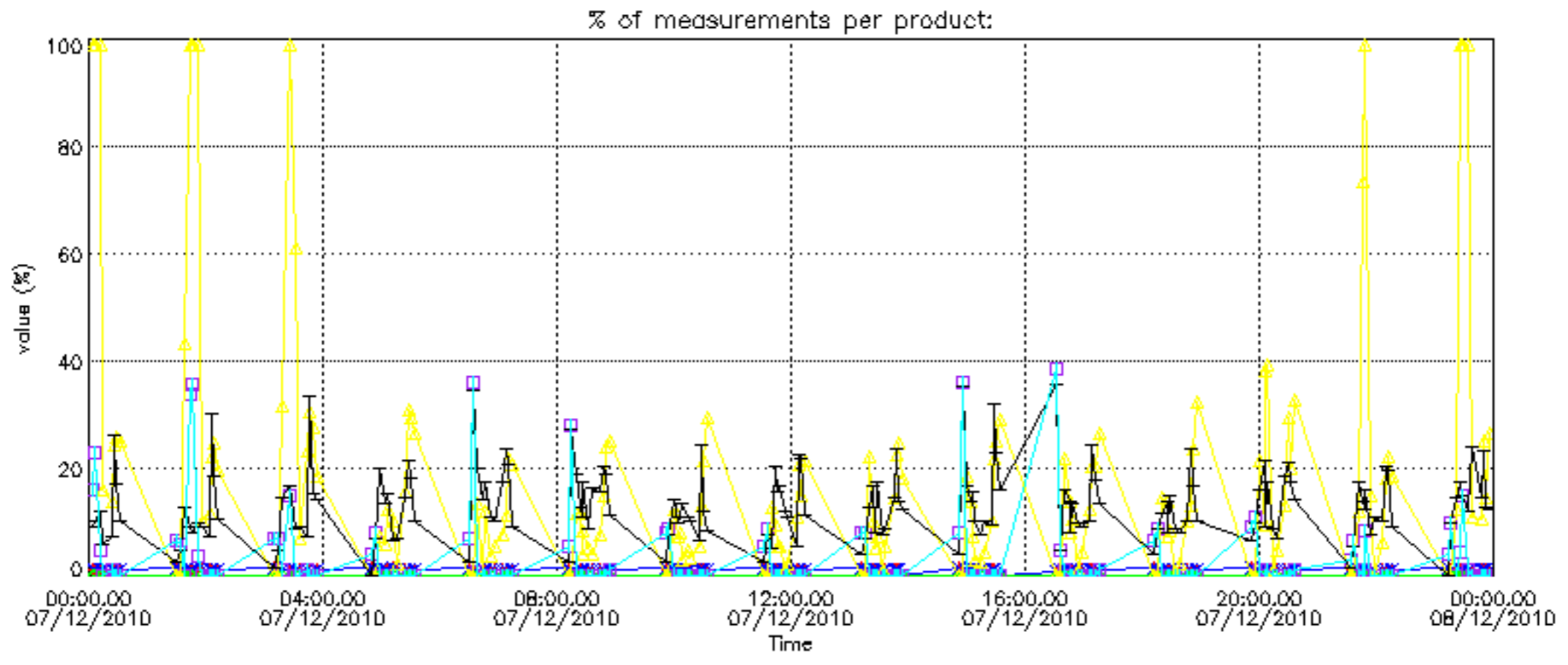


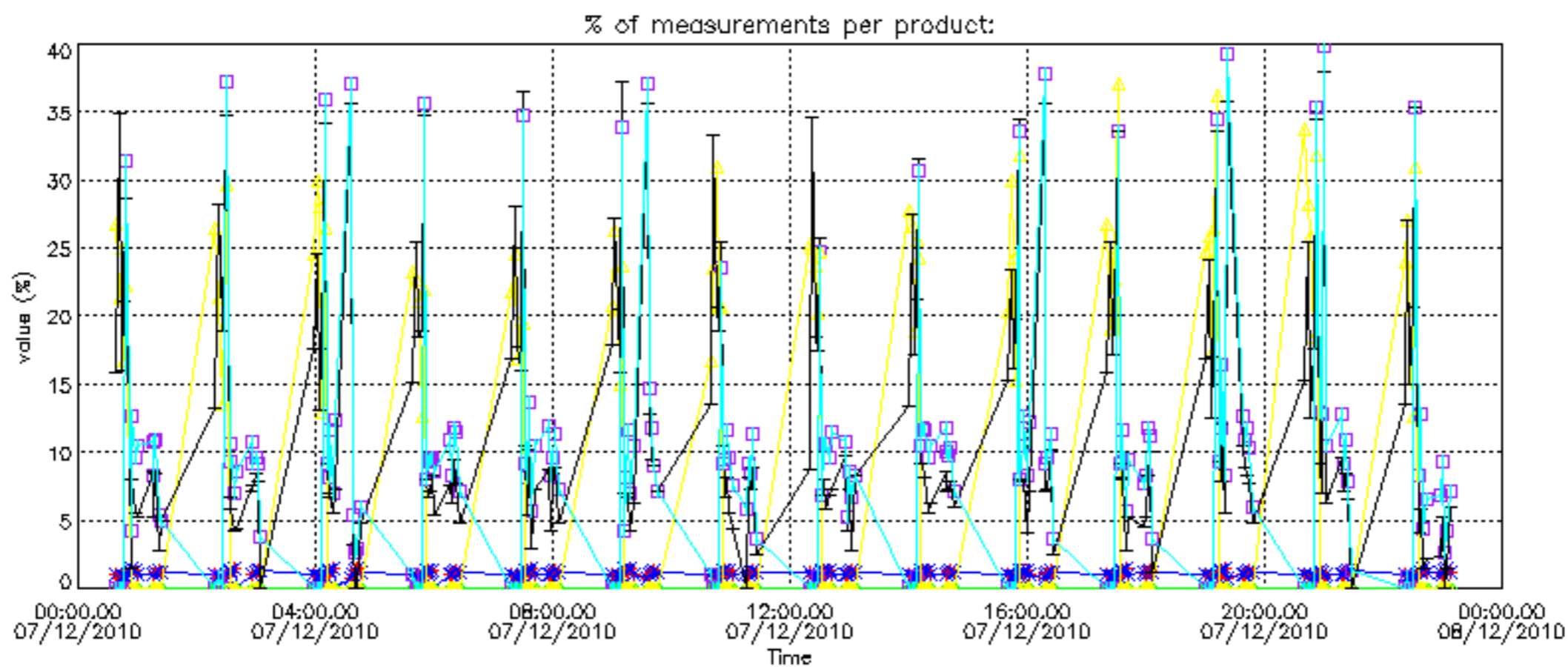
Percentage of flagged data per NO2 profile



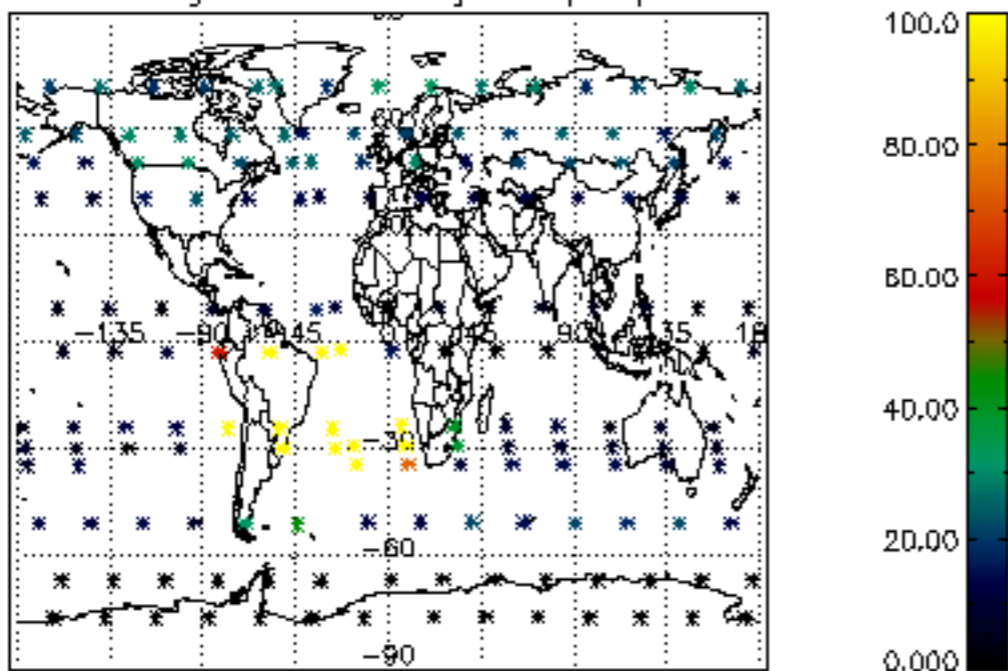
Percentage of flagged data per NO3 profile



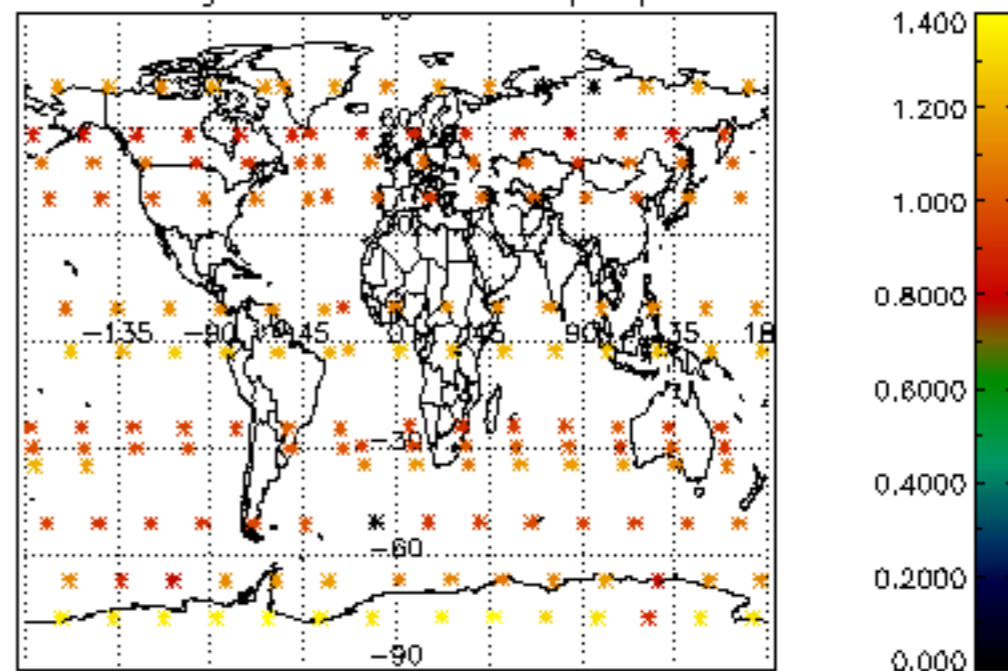




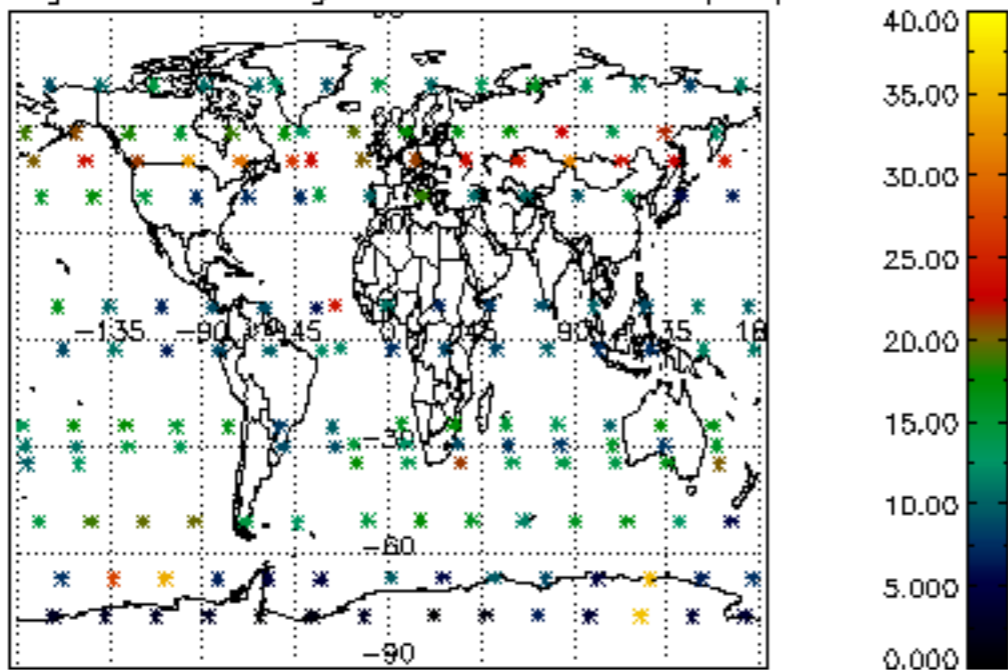
Percentage of cosmic ray hits per profile



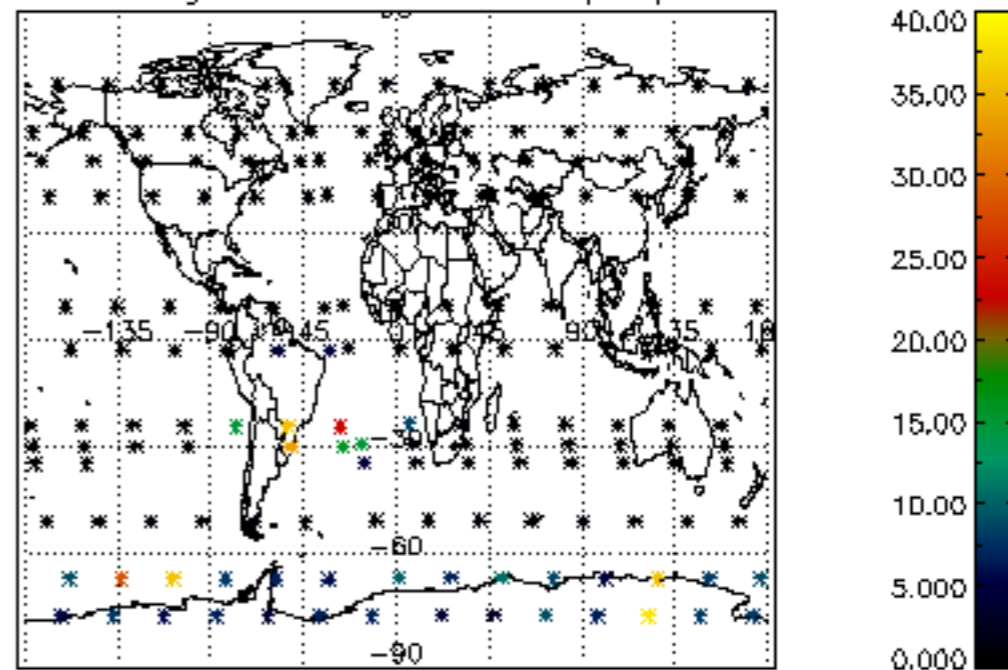
Percentage of datation errors per profile



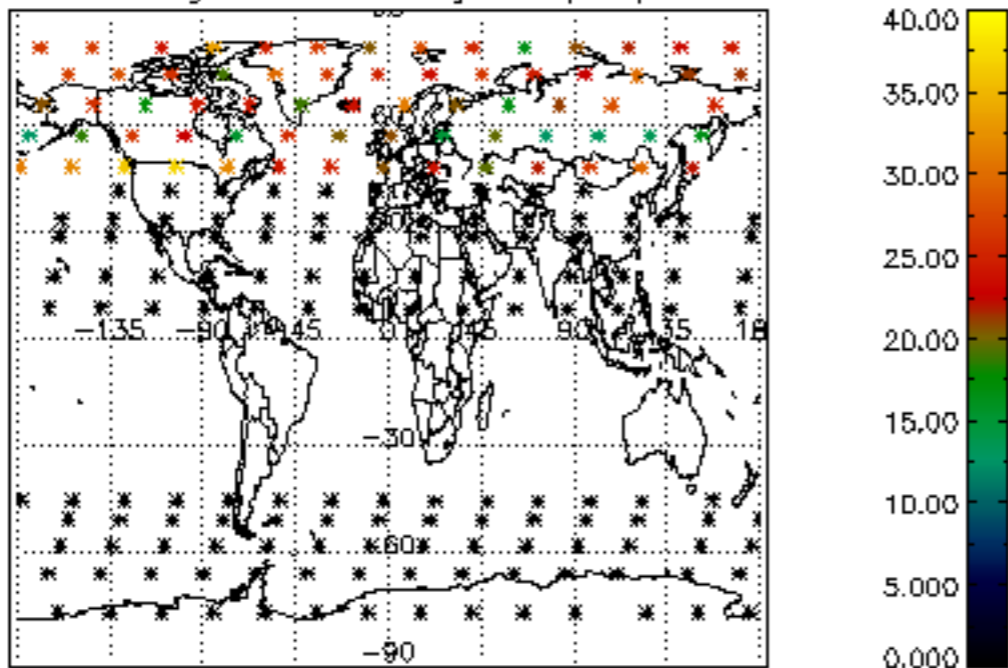
Percentage of star falling outside central band per profile



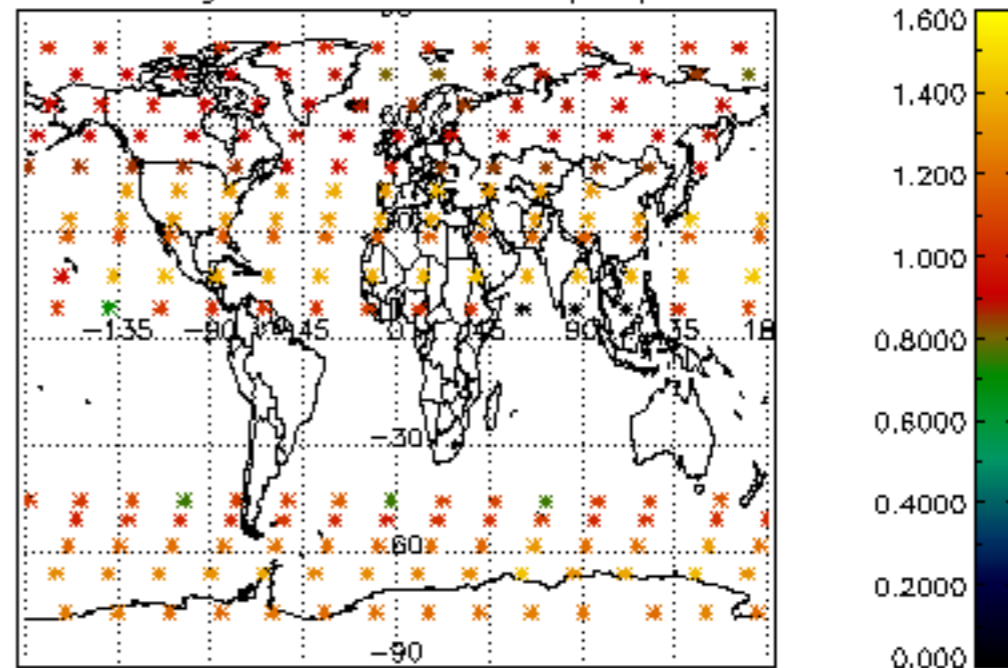
Percentage of saturation errors per profile



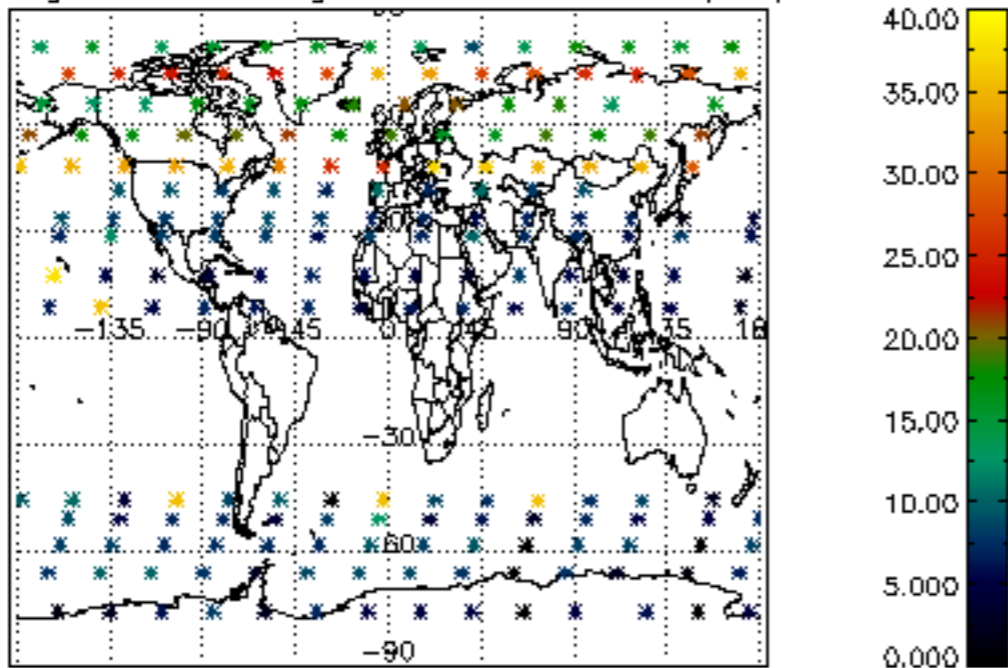
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

