

# GOMOS Level 2 Daily Report

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This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM\_NL\_\_2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	24APR2013 15:18:03
Data source version	GOMOS/6.01
Start time of products	30-06-2011 (30JUN2011 00:00:00)
Stop time of products	01-07-2011 (01JUL2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	298
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__2PRFIN20110630_000104_000000503104_00074_48795_0971.N1	30-JUN-2011 00:01:04	Dark	49.500	84	Alp Phe	2.3970	4500.0	99	48795	No
2	GOM_NL__2PRFIN20110630_000731_000000533104_00074_48795_0972.N1	30-JUN-2011 00:07:31	Straylight	53.000	63	Bet Gru	2.1500	2800.0	106	48795	No
3	GOM_NL__2PRFIN20110630_000928_000000503104_00074_48795_0973.N1	30-JUN-2011 00:09:28	Straylight	49.500	31	Alp Gru	1.7340	15200.	99	48795	No
4	GOM_NL__2PRFIN20110630_001152_000000413104_00074_48795_0974.N1	30-JUN-2011 00:11:52	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	48795	No
5	GOM_NL__2PRFIN20110630_002120_000000473104_00074_48795_0975.N1	30-JUN-2011 00:21:20	Tw_i_and_stray	47.000	103	38Zet Sgr	2.6000	9700.0	94	48795	No
6	GOM_NL__2PRFIN20110630_002405_000000463104_00074_48795_0976.N1	30-JUN-2011 00:24:05	Bright	45.500	155	41Pi Sgr	2.9000	6600.0	91	48795	No
7	GOM_NL__2PRFIN20110630_003225_000000383104_00074_48795_0977.N1	30-JUN-2011 00:32:25	Bright	37.500	126	60Bet Oph	2.7700	4250.0	75	48795	No
8	GOM_NL__2PRFIN20110630_003445_000000393104_00074_48795_0978.N1	30-JUN-2011 00:34:45	Bright	39.000	59	55Alp Oph	2.0800	8900.0	78	48795	No
9	GOM_NL__2PRFIN20110630_003635_000000493104_00074_48795_0979.N1	30-JUN-2011 00:36:35	Bright	49.000	168	17Zet Aql	2.9860	11000.	98	48795	No
10	GOM_NL__2PRFIN20110630_004333_000000623104_00074_48795_0980.N1	30-JUN-2011 00:43:33	Bright	62.000	5	3Alp Lyr	0.033000	11000.	124	48795	No
11	GOM_NL__2PRFIN20110630_004610_000000393104_00074_48795_0981.N1	30-JUN-2011 00:46:10	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	48795	No
12	GOM_NL__2PRFIN20110630_004803_000000473104_00074_48795_0982.N1	30-JUN-2011 00:48:03	Bright	47.000	144	18Del Cyg	2.8600	11000.	94	48795	No
13	GOM_NL__2PRFIN20110630_005502_000000483104_00074_48795_0983.N1	30-JUN-2011 00:55:02	Bright	47.500	89	5Alp Cep	2.4510	8000.0	95	48795	No
14	GOM_NL__2PRFIN20110630_010221_000000593104_00074_48795_0984.N1	30-JUN-2011 01:02:21	Bright	59.000	74	11Bet Cas	2.2680	6600.0	118	48795	No
15	GOM_NL__2PRFIN20110630_010402_000000483104_00074_48795_0985.N1	30-JUN-2011 01:04:02	Bright	47.500	68	18Alp Cas	2.2250	4500.0	95	48795	No
16	GOM_NL__2PRFIN20110630_010658_000000463104_00074_48795_0986.N1	30-JUN-2011 01:06:58	Bright	45.500	160	23Gam Per	2.9300	4700.0	91	48795	No
17	GOM_NL__2PRFIN20110630_011020_000000513104_00074_48795_0987.N1	30-JUN-2011 01:10:20	Bright	50.500	73	57Gam1And	2.2600	13100.	101	48795	No
18	GOM_NL__2PRFIN20110630_011257_000000503104_00074_48795_0988.N1	30-JUN-2011 01:12:57	Tw_i_and_stray	50.000	173	4Bet Tri	3.0040	8900.0	100	48795	No
19	GOM_NL__2PRFIN20110630_011710_000000563104_00074_48795_0989.N1	30-JUN-2011 01:17:10	Dark	56.000	50	13Alp Ari	2.0070	4250.0	112	48795	No
20	GOM_NL__2PRFIN20110630_012208_000000483104_00074_48795_0990.N1	30-JUN-2011 01:22:08	Dark	47.500	94	92Alp Cet	2.5260	3100.0	95	48795	No
21	GOM_NL__2PRFIN20110630_014119_000000493104_00075_48796_0971.N1	30-JUN-2011 01:41:19	Dark	49.000	84	Alp Phe	2.3970	4500.0	98	48796	No
22	GOM_NL__2PRFIN20110630_014746_000000543104_00075_48796_0972.N1	30-JUN-2011 01:47:46	Straylight	53.500	63	Bet Gru	2.1500	2800.0	107	48796	No
23	GOM_NL__2PRFIN20110630_014943_000000603104_00075_48796_0973.N1	30-JUN-2011 01:49:43	Straylight	60.000	31	Alp Gru	1.7340	15200.	120	48796	No
24	GOM_NL__2PRFIN20110630_015206_000000423104_00075_48796_0974.N1	30-JUN-2011 01:52:06	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	48796	No
25	GOM_NL__2PRFIN20110630_020134_000000463104_00075_48796_0975.N1	30-JUN-2011 02:01:34	Tw_i_and_stray	45.500	103	38Zet Sgr	2.6000	9700.0	91	48796	No
26	GOM_NL__2PRFIN20110630_020419_000000463104_00075_48796_0976.N1	30-JUN-2011 02:04:19	Bright	46.000	155	41Pi Sgr	2.9000	6600.0	92	48796	No
27	GOM_NL__2PRFIN20110630_021239_000000393104_00075_48796_0977.N1	30-JUN-2011 02:12:39	Bright	38.500	126	60Bet Oph	2.7700	4250.0	77	48796	No
28	GOM_NL__2PRFIN20110630_021459_000000393104_00075_48796_0978.N1	30-JUN-2011 02:14:59	Bright	38.500	59	55Alp Oph	2.0800	8900.0	77	48796	No
29	GOM_NL__2PRFIN20110630_021648_000000493104_00075_48796_0979.N1	30-JUN-2011 02:16:48	Bright	48.500	168	17Zet Aql	2.9860	11000.	97	48796	No
30	GOM_NL__2PRFIN20110630_022347_000000443104_00075_48796_0980.N1	30-JUN-2011 02:23:47	Bright	44.000	5	3Alp Lyr	0.033000	11000.	88	48796	No
31	GOM_NL__2PRFIN20110630_022623_000000383104_00075_48796_0981.N1	30-JUN-2011 02:26:23	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	48796	No
32	GOM_NL__2PRFIN20110630_022817_000000463104_00075_48796_0982.N1	30-JUN-2011 02:28:17	Bright	46.000	144	18Del Cyg	2.8600	11000.	92	48796	No
33	GOM_NL__2PRFIN20110630_023516_000000463104_00075_48796_0983.N1	30-JUN-2011 02:35:16	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	48796	No
34	GOM_NL__2PRFIN20110630_024235_000000483104_00075_48796_0984.N1	30-JUN-2011 02:42:35	Bright	48.000	74	11Bet Cas	2.2680	6600.0	96	48796	No
35	GOM_NL__2PRFIN20110630_024416_000000483104_00075_48796_0985.N1	30-JUN-2011 02:44:16	Bright	48.000	68	18Alp Cas	2.2250	4500.0	96	48796	No
36	GOM_NL__2PRFIN20110630_024712_000000533104_00075_48796_0986.N1	30-JUN-2011 02:47:12	Bright	52.500	160	23Gam Per	2.9300	4700.0	105	48796	No
37	GOM_NL__2PRFIN20110630_025034_000000463104_00075_48796_0987.N1	30-JUN-2011 02:50:34	Bright	46.000	73	57Gam1And	2.2600	13100.	92	48796	No
38	GOM_NL__2PRFIN20110630_025311_000000513104_00075_48796_0988.N1	30-JUN-2011 02:53:11	Tw_i_and_stray	51.000	173	4Bet Tri	3.0040	8900.0	102	48796	No
39	GOM_NL__2PRFIN20110630_025724_000000583104_00075_48796_0989.N1	30-JUN-2011 02:57:24	Dark	58.000	50	13Alp Ari	2.0070	4250.0	116	48796	No
40	GOM_NL__2PRFIN20110630_030222_000000493104_00075_48796_0990.N1	30-JUN-2011 03:02:22	Dark	48.500	94	92Alp Cet	2.5260	3100.0	97	48796	No
41	GOM_NL__2PRFIN20110630_032134_000000473104_00076_48797_0971.N1	30-JUN-2011 03:21:34	Dark	47.000	84	Alp Phe	2.3970	4500.0	94	48797	No
42	GOM_NL__2PRFIN20110630_032801_000000533104_00076_48797_0972.N1	30-JUN-2011 03:28:01	Straylight	53.000	63	Bet Gru	2.1500	2800.0	106	48797	No







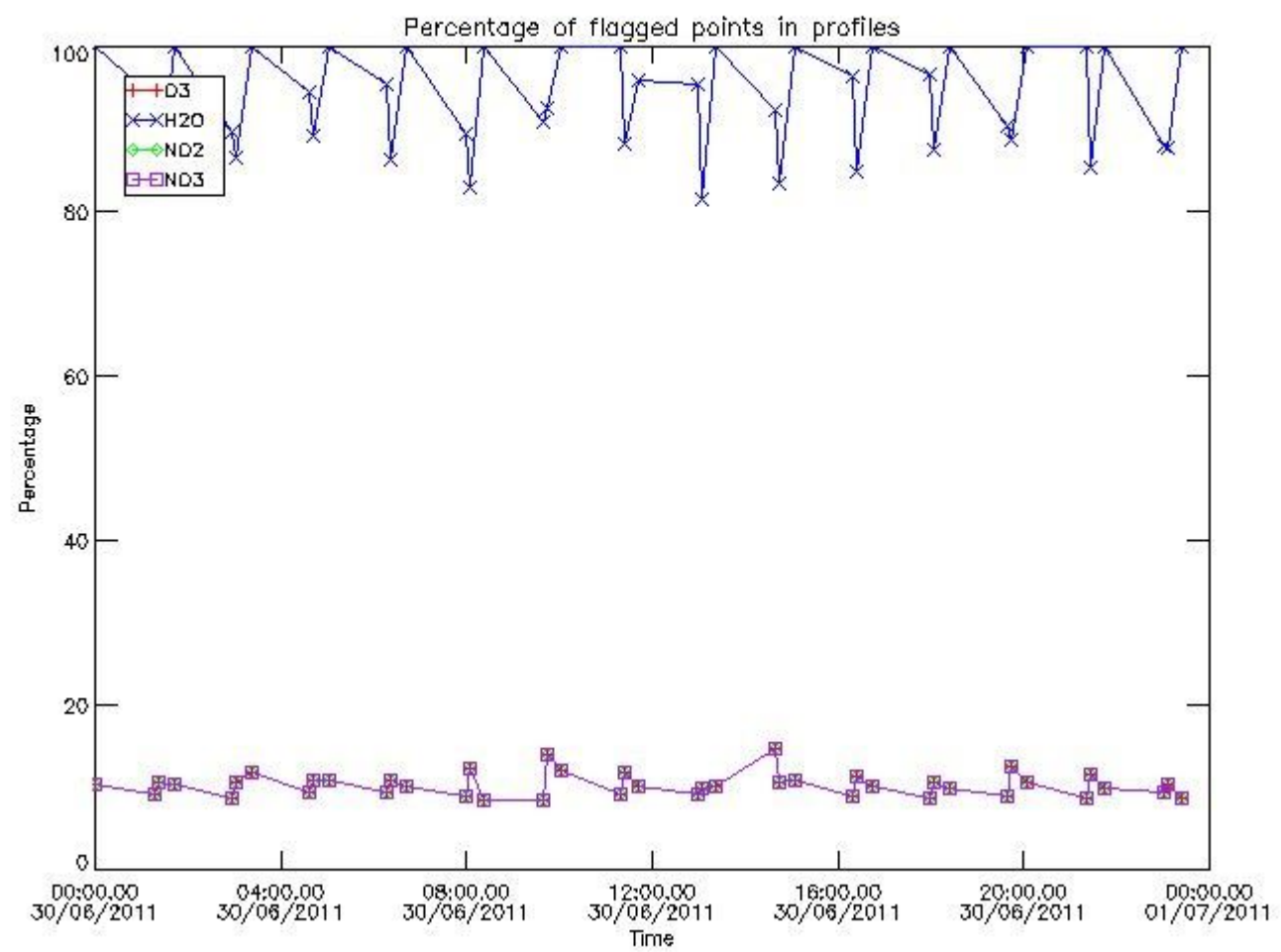


279	GOM_NL__2PRFIN20110630_222909_000000353104_00087_48808_1021.N1	30-JUN-2011 22:29:09	Bright	35.000	130	23Bet Dra	2.7990	5800.0	70	48808	No
280	GOM_NL__2PRFIN20110630_223055_000000473104_00087_48808_1022.N1	30-JUN-2011 22:30:55	Bright	46.500	144	18Del Cyg	2.8600	11000.	93	48808	No
281	GOM_NL__2PRFIN20110630_223756_000000463104_00087_48808_1023.N1	30-JUN-2011 22:37:56	Bright	45.500	89	5Alp Cep	2.4510	8000.0	91	48808	No
282	GOM_NL__2PRFIN20110630_224516_000000473104_00087_48808_1024.N1	30-JUN-2011 22:45:16	Bright	46.500	74	11Bet Cas	2.2680	6600.0	93	48808	No
283	GOM_NL__2PRFIN20110630_224651_000000573104_00087_48808_1025.N1	30-JUN-2011 22:46:51	Bright	57.000	110	37Del Cas	2.6780	8900.0	114	48808	No
284	GOM_NL__2PRFIN20110630_224959_000000443104_00087_48808_1026.N1	30-JUN-2011 22:49:59	Bright	44.000	160	23Gam Per	2.9300	4700.0	88	48808	No
285	GOM_NL__2PRFIN20110630_225143_000000353104_00087_48808_1027.N1	30-JUN-2011 22:51:43	Bright	34.500	175	39Del Per	3.0100	19400.	69	48808	No
286	GOM_NL__2PRFIN20110630_225321_000000603104_00087_48808_1028.N1	30-JUN-2011 22:53:21	Bright	59.500	73	57Gam1And	2.2600	13100.	119	48808	No
287	GOM_NL__2PRFIN20110630_225600_000000513104_00087_48808_1029.N1	30-JUN-2011 22:56:00	Twi_and_stray	50.500	173	4Bet Tri	3.0040	8900.0	101	48808	No
288	GOM_NL__2PRFIN20110630_230016_000000593104_00087_48808_1030.N1	30-JUN-2011 23:00:16	Dark	59.000	50	13Alp Ari	2.0070	4250.0	118	48808	No
289	GOM_NL__2PRFIN20110630_230515_000000493104_00087_48808_1031.N1	30-JUN-2011 23:05:15	Dark	48.500	94	92Alp Cet	2.5260	3100.0	97	48808	No
290	GOM_NL__2PRFIN20110630_232434_000000593104_00088_48809_1011.N1	30-JUN-2011 23:24:34	Dark	59.000	84	Alp Phe	2.3970	4500.0	118	48809	No
291	GOM_NL__2PRFIN20110630_233101_000000533104_00088_48809_1012.N1	30-JUN-2011 23:31:01	Straylight	52.500	63	Bet Gru	2.1500	2800.0	105	48809	No
292	GOM_NL__2PRFIN20110630_233256_000000493104_00088_48809_1013.N1	30-JUN-2011 23:32:56	Straylight	48.500	31	Alp Gru	1.7340	15200.	97	48809	No
293	GOM_NL__2PRFIN20110630_233515_000000413104_00088_48809_1014.N1	30-JUN-2011 23:35:15	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	48809	No
294	GOM_NL__2PRFIN20110630_234440_000000463104_00088_48809_1015.N1	30-JUN-2011 23:44:40	Twi_and_stray	45.500	103	38Zet Sgr	2.6000	9700.0	91	48809	No
295	GOM_NL__2PRFIN20110630_234724_000000453104_00088_48809_1016.N1	30-JUN-2011 23:47:24	Bright	44.500	155	41Pi Sgr	2.9000	6600.0	89	48809	No
296	GOM_NL__2PRFIN20110630_235541_000000383104_00088_48809_1017.N1	30-JUN-2011 23:55:41	Bright	37.500	126	60Bet Oph	2.7700	4250.0	75	48809	No
297	GOM_NL__2PRFIN20110630_235800_000000373104_00088_48809_1018.N1	30-JUN-2011 23:58:00	Bright	37.000	59	55Alp Oph	2.0800	8900.0	74	48809	No
298	GOM_NL__2PRFIN20110630_235943_000000483104_00088_48809_1019.N1	30-JUN-2011 23:59:43	Bright	48.000	168	17Zet Aql	2.9860	11000.	96	48809	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.

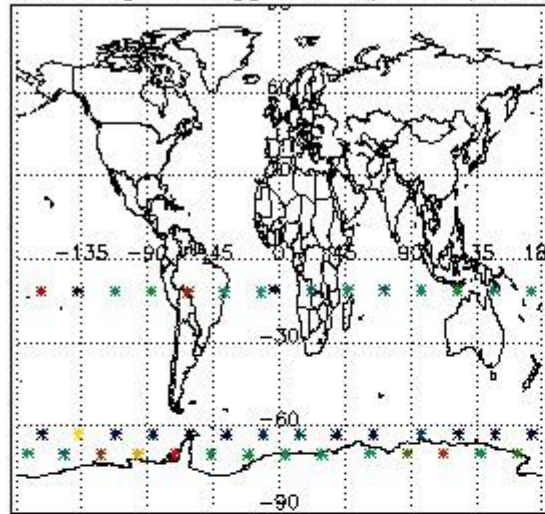
#### *3.1 Plot quality information per product (time dependant)*



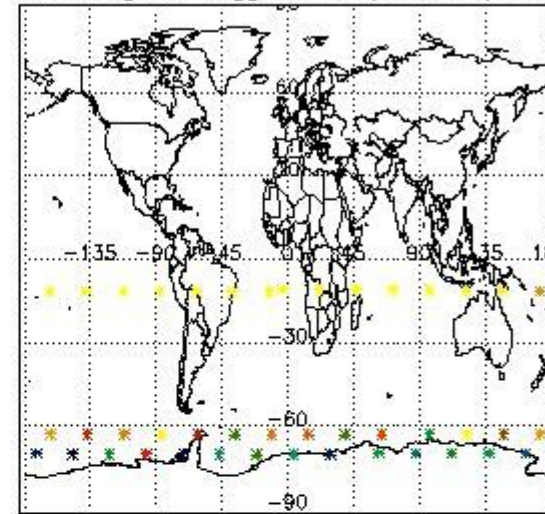
*3.2 Plot quality information per product (world map)*



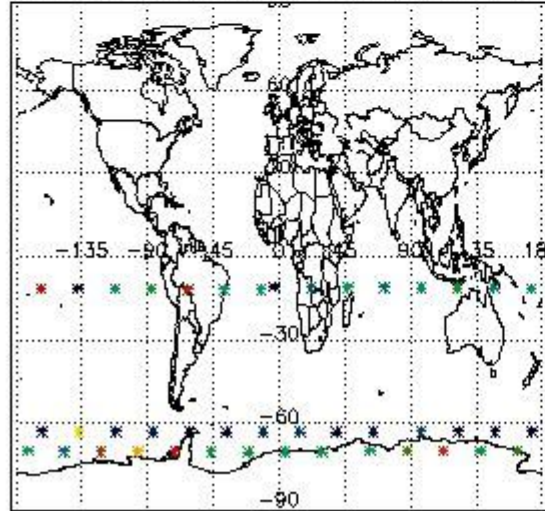
Percentage of flagged data per O3 profile



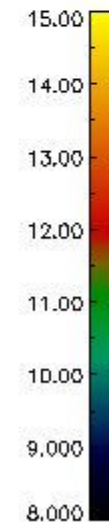
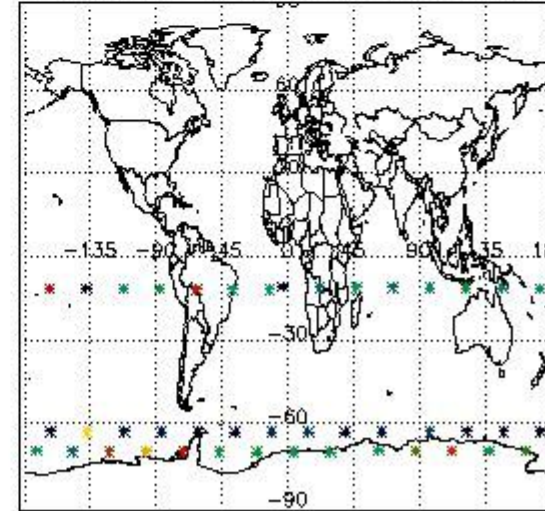
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

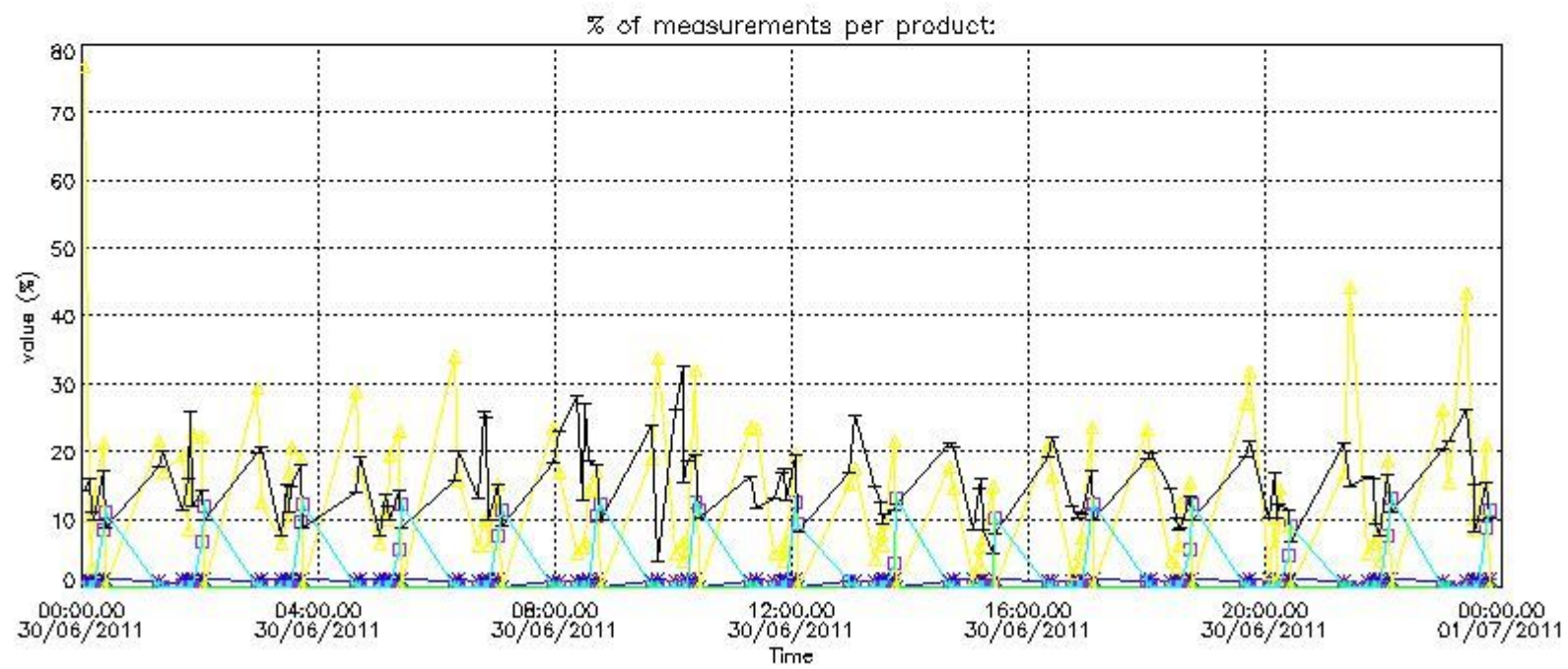


#### 4. Level 1 quality information per product

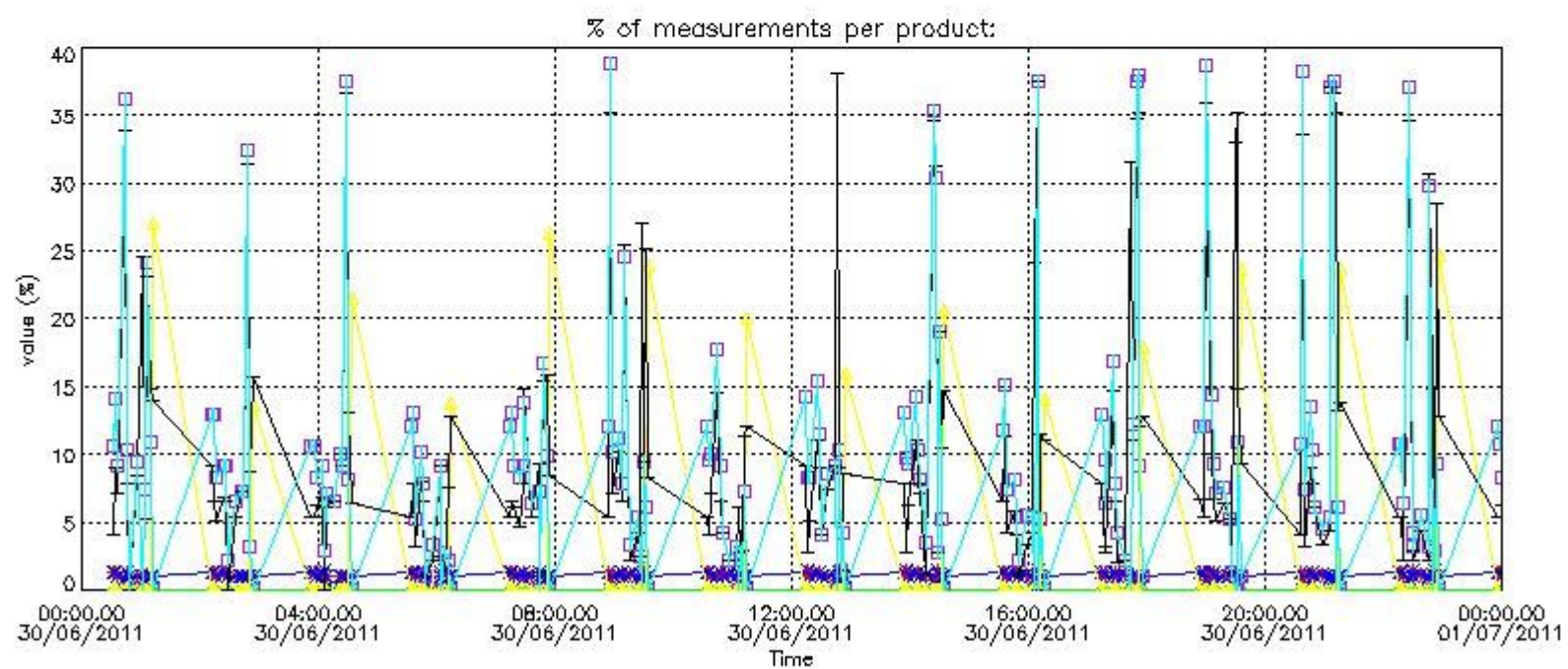
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

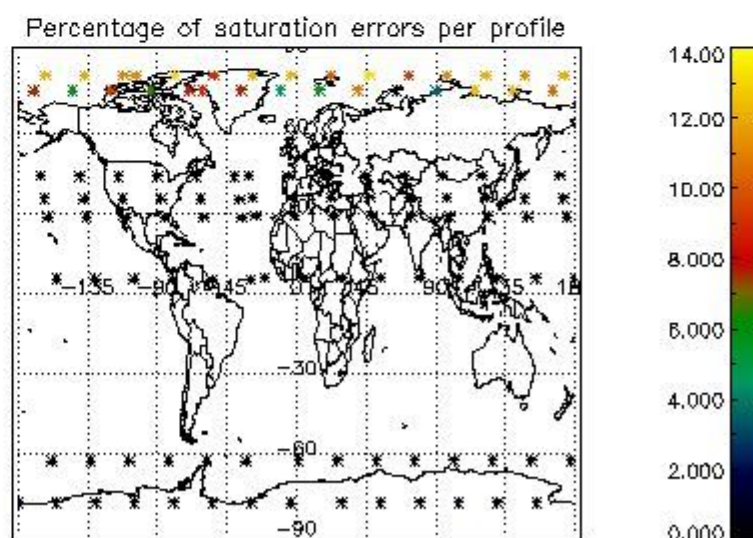
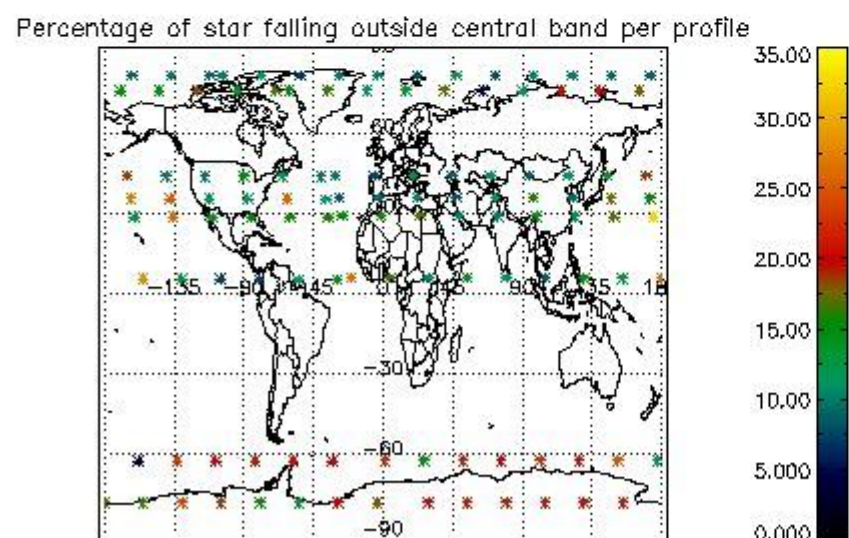
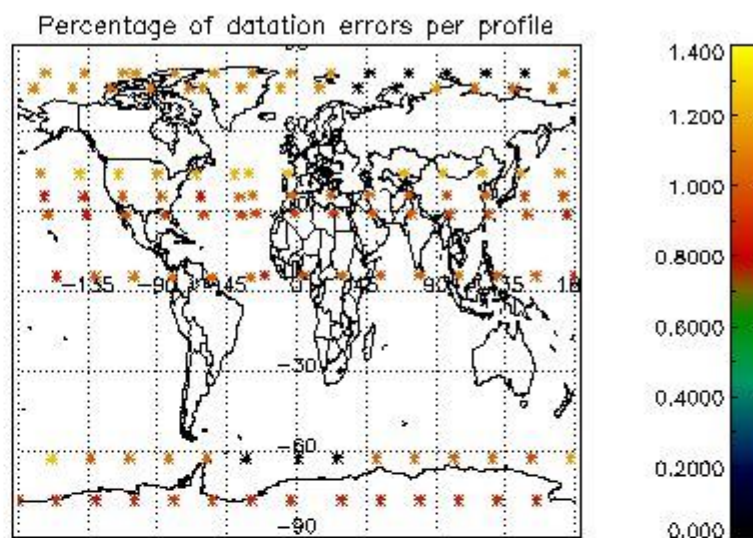
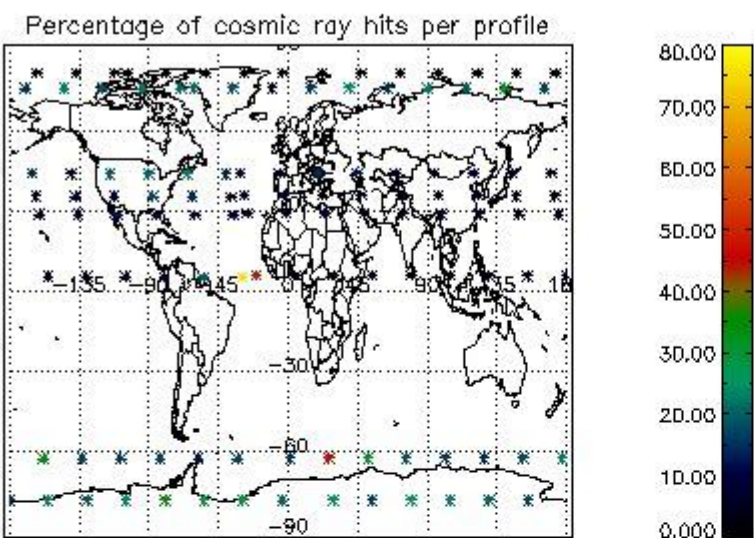


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

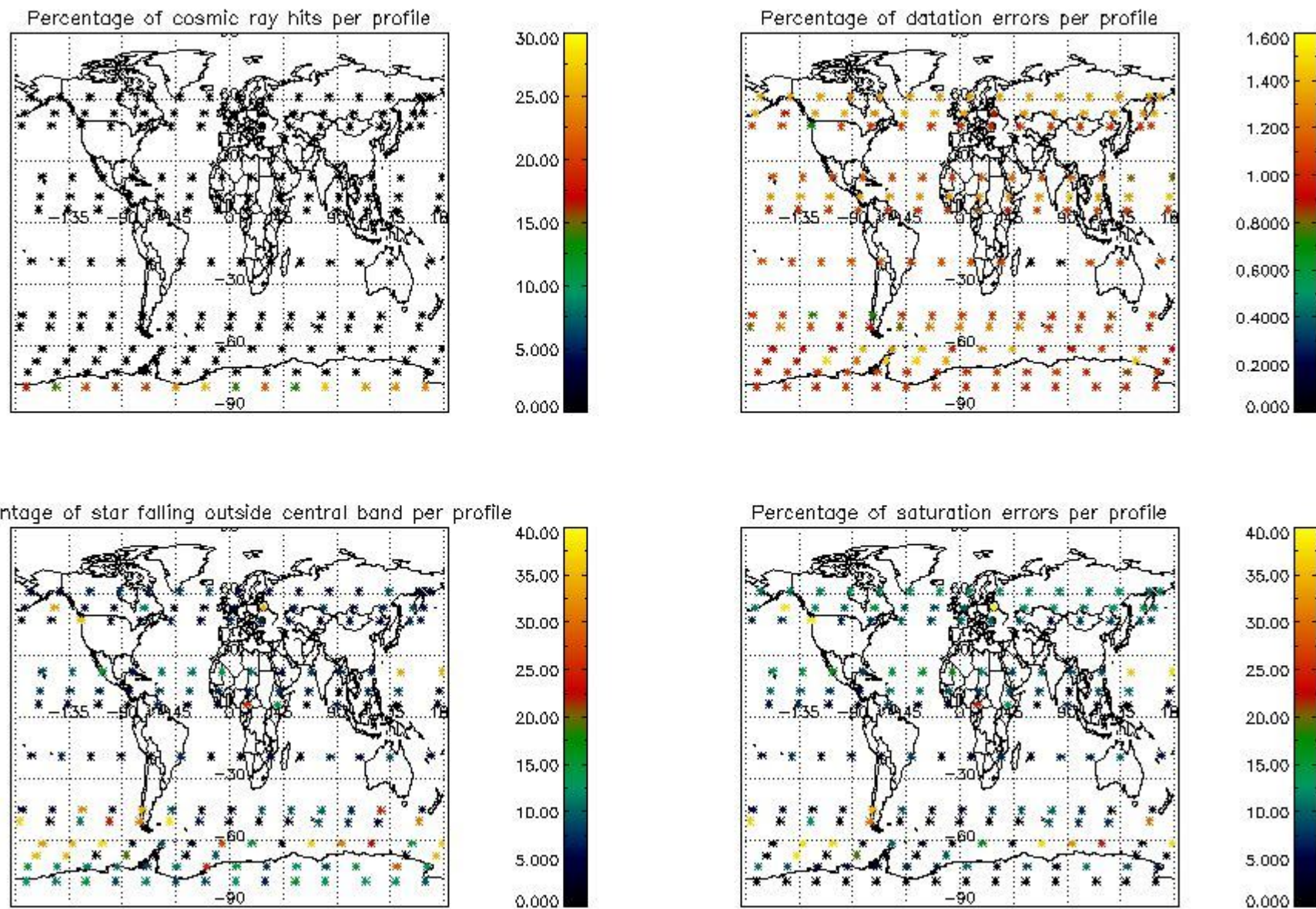


4.2 Plot quality information per product coming from level 1b processing (world map)

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

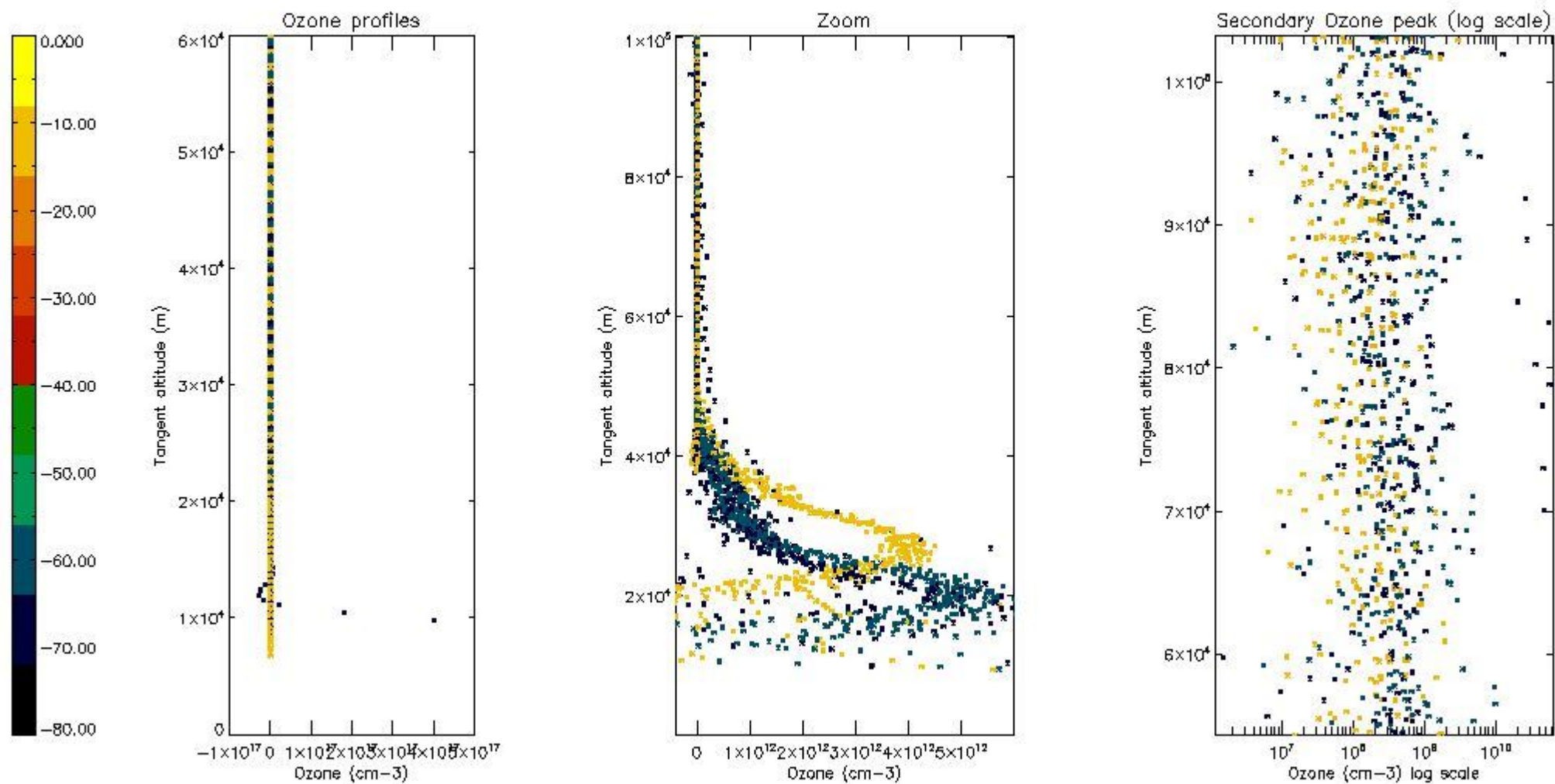
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	16
STD < 20	4

STD < 10	2
STD < 5	0

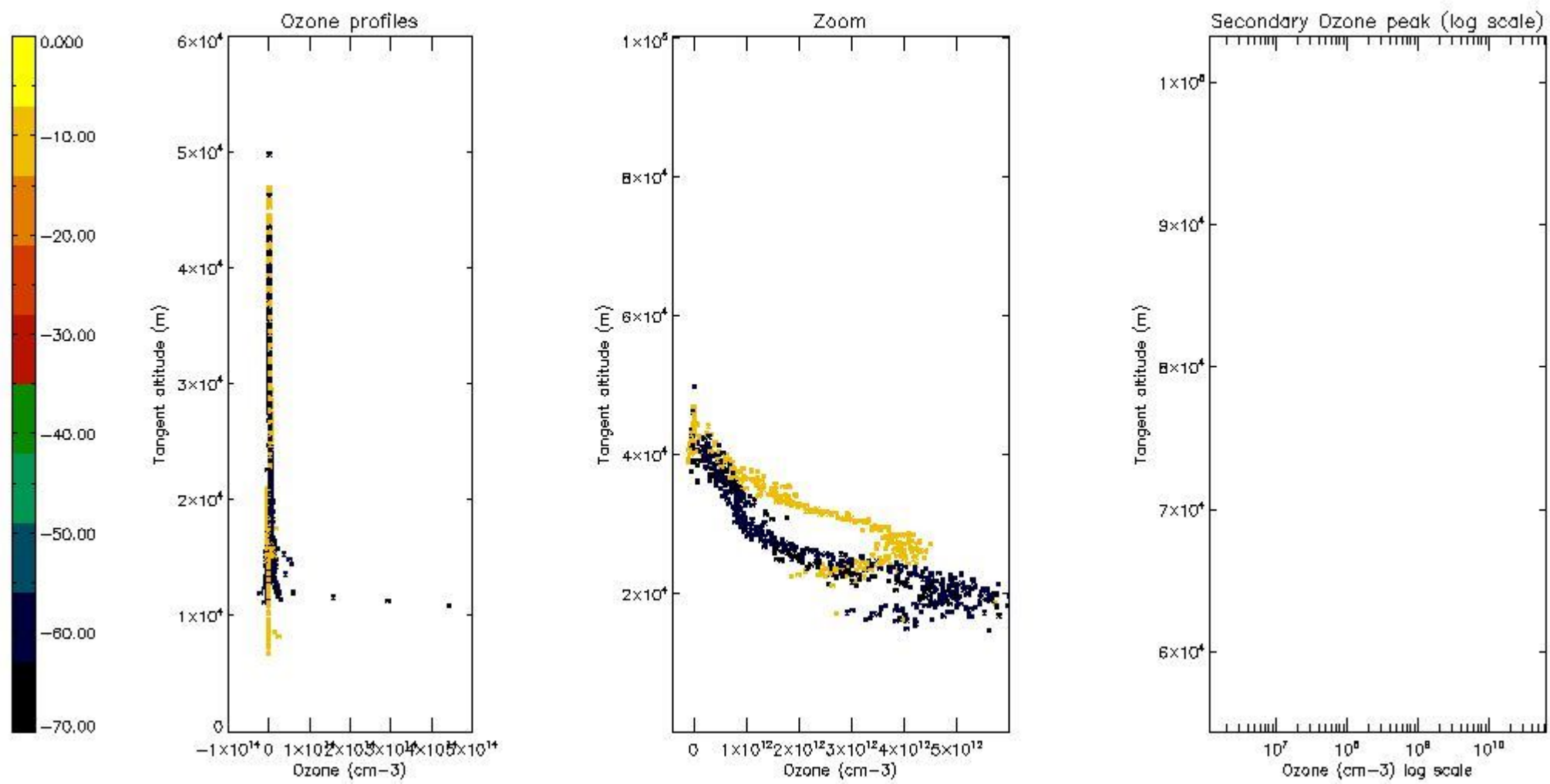
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



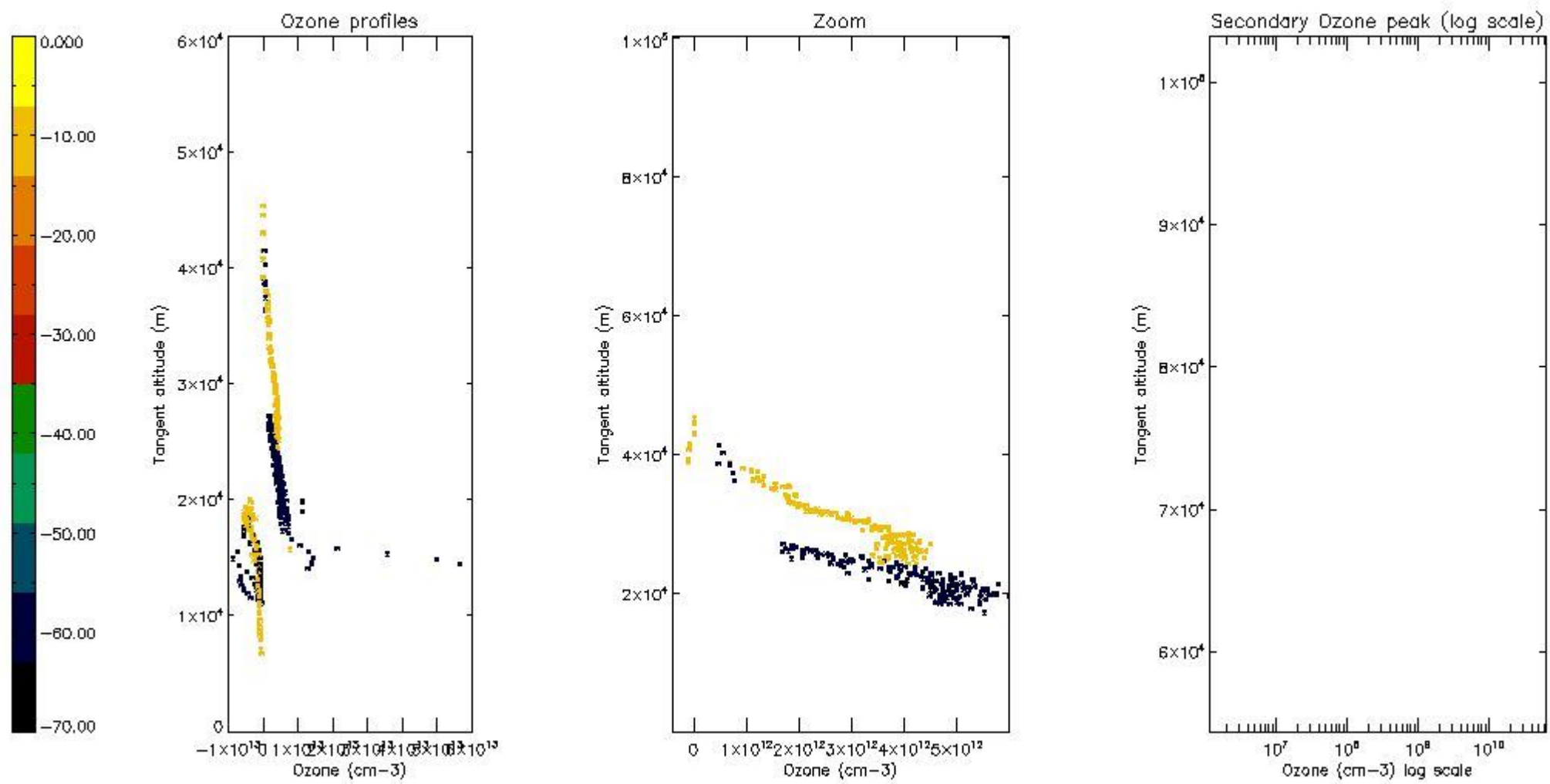
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



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

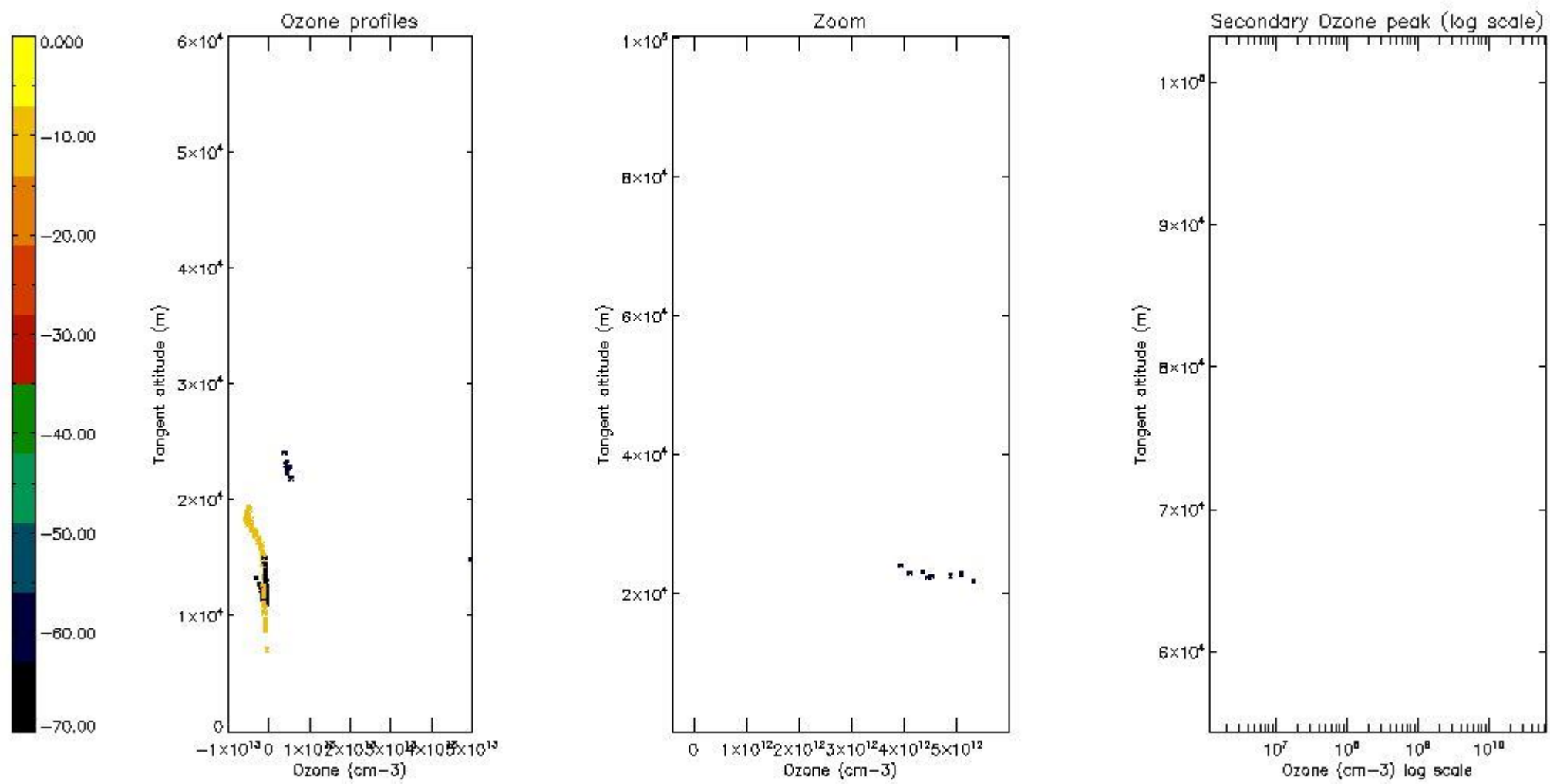
The colorbar represents the latitude.



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

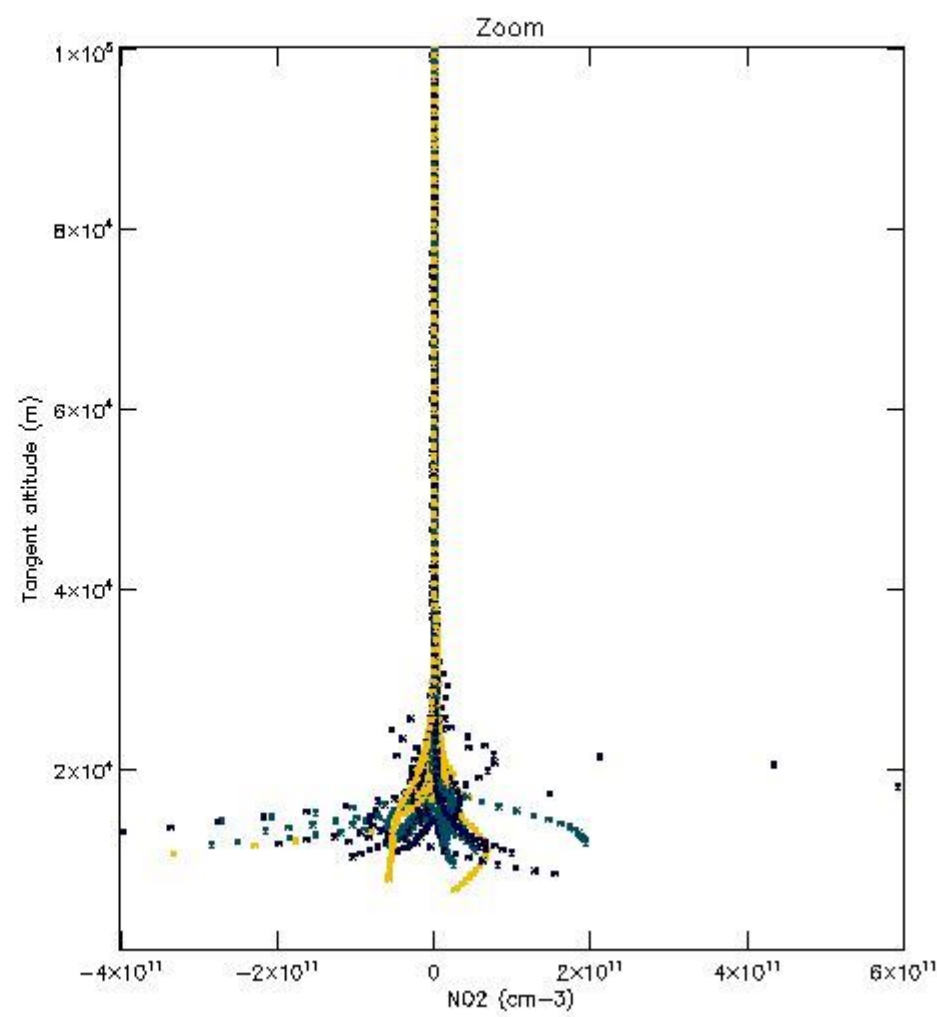
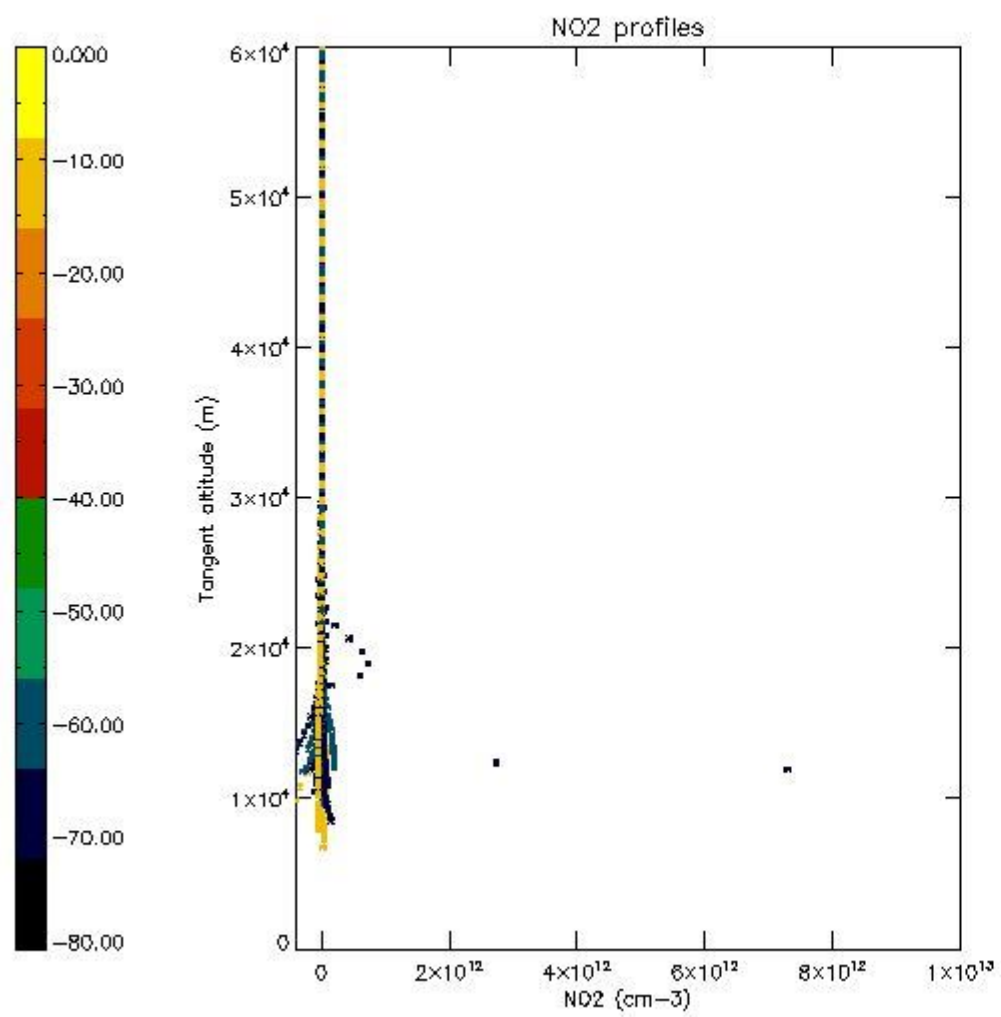
The colorbar represents the latitude.





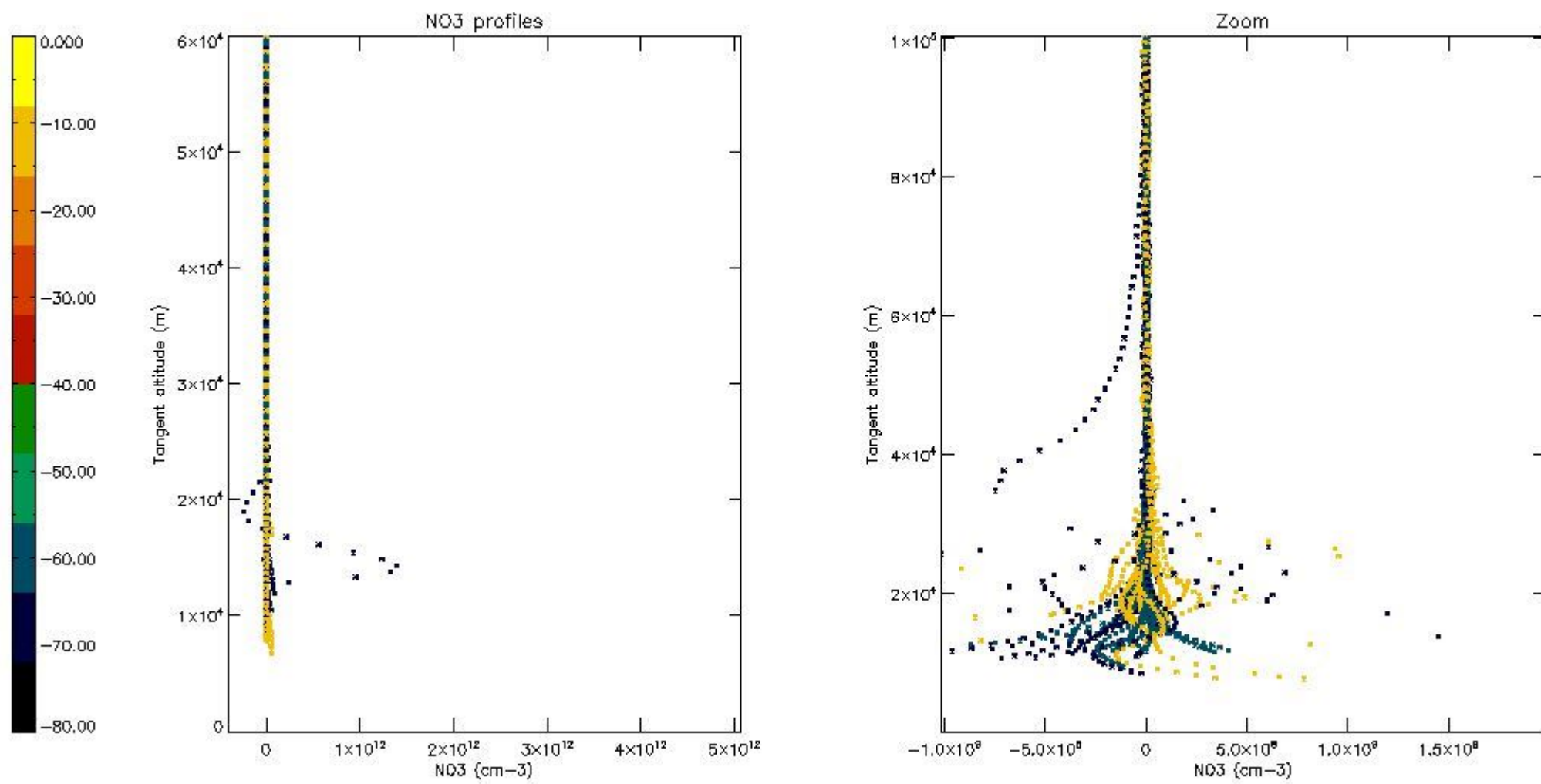
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



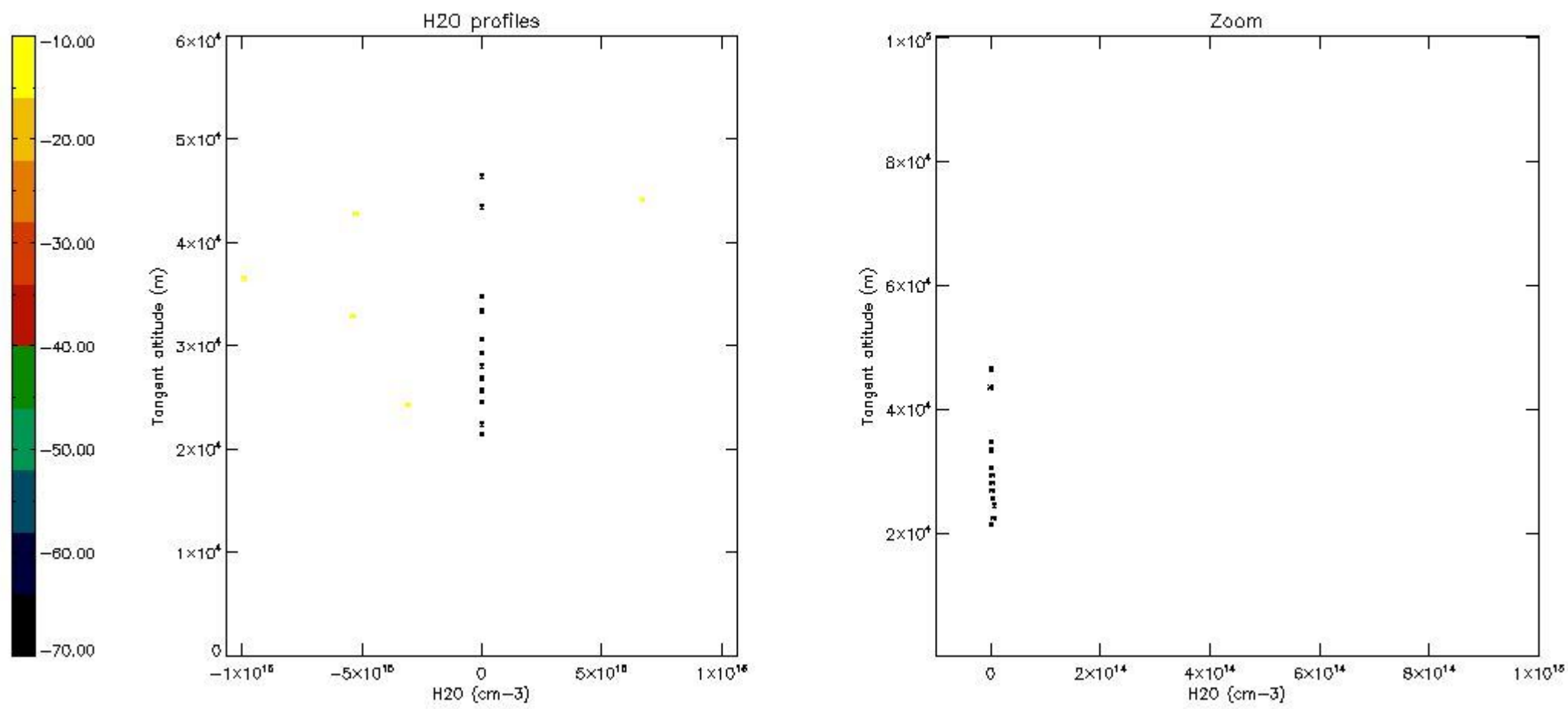
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	30-JUN-2011 00:01:04
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	30-JUN-2011 00:01:04
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	30-JUN-2011 00:01:04

# GOMOS Level 2 Daily Report

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### [6. Auxiliary Data Files used for the production reported in section 2](#)

This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM\_NL\_\_2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	24APR2013 15:18:03
Data source version	GOMOS/6.01
Start time of products	30-06-2011 (30JUN2011 00:00:00)
Stop time of products	01-07-2011 (01JUL2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	298
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__2PRFIN20110630_000104_000000503104_00074_48795_0971.N1	30-JUN-2011 00:01:04	Dark	49.500	84	Alp Phe	2.3970	4500.0	99	48795	No
2	GOM_NL__2PRFIN20110630_000731_000000533104_00074_48795_0972.N1	30-JUN-2011 00:07:31	Straylight	53.000	63	Bet Gru	2.1500	2800.0	106	48795	No
3	GOM_NL__2PRFIN20110630_000928_000000503104_00074_48795_0973.N1	30-JUN-2011 00:09:28	Straylight	49.500	31	Alp Gru	1.7340	15200.	99	48795	No
4	GOM_NL__2PRFIN20110630_001152_000000413104_00074_48795_0974.N1	30-JUN-2011 00:11:52	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	48795	No
5	GOM_NL__2PRFIN20110630_002120_000000473104_00074_48795_0975.N1	30-JUN-2011 00:21:20	Tw_i_and_stray	47.000	103	38Zet Sgr	2.6000	9700.0	94	48795	No
6	GOM_NL__2PRFIN20110630_002405_000000463104_00074_48795_0976.N1	30-JUN-2011 00:24:05	Bright	45.500	155	41Pi Sgr	2.9000	6600.0	91	48795	No
7	GOM_NL__2PRFIN20110630_003225_000000383104_00074_48795_0977.N1	30-JUN-2011 00:32:25	Bright	37.500	126	60Bet Oph	2.7700	4250.0	75	48795	No
8	GOM_NL__2PRFIN20110630_003445_000000393104_00074_48795_0978.N1	30-JUN-2011 00:34:45	Bright	39.000	59	55Alp Oph	2.0800	8900.0	78	48795	No
9	GOM_NL__2PRFIN20110630_003635_000000493104_00074_48795_0979.N1	30-JUN-2011 00:36:35	Bright	49.000	168	17Zet Aql	2.9860	11000.	98	48795	No
10	GOM_NL__2PRFIN20110630_004333_000000623104_00074_48795_0980.N1	30-JUN-2011 00:43:33	Bright	62.000	5	3Alp Lyr	0.033000	11000.	124	48795	No
11	GOM_NL__2PRFIN20110630_004610_000000393104_00074_48795_0981.N1	30-JUN-2011 00:46:10	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	48795	No
12	GOM_NL__2PRFIN20110630_004803_000000473104_00074_48795_0982.N1	30-JUN-2011 00:48:03	Bright	47.000	144	18Del Cyg	2.8600	11000.	94	48795	No
13	GOM_NL__2PRFIN20110630_005502_000000483104_00074_48795_0983.N1	30-JUN-2011 00:55:02	Bright	47.500	89	5Alp Cep	2.4510	8000.0	95	48795	No
14	GOM_NL__2PRFIN20110630_010221_000000593104_00074_48795_0984.N1	30-JUN-2011 01:02:21	Bright	59.000	74	11Bet Cas	2.2680	6600.0	118	48795	No
15	GOM_NL__2PRFIN20110630_010402_000000483104_00074_48795_0985.N1	30-JUN-2011 01:04:02	Bright	47.500	68	18Alp Cas	2.2250	4500.0	95	48795	No
16	GOM_NL__2PRFIN20110630_010658_000000463104_00074_48795_0986.N1	30-JUN-2011 01:06:58	Bright	45.500	160	23Gam Per	2.9300	4700.0	91	48795	No
17	GOM_NL__2PRFIN20110630_011020_000000513104_00074_48795_0987.N1	30-JUN-2011 01:10:20	Bright	50.500	73	57Gam1And	2.2600	13100.	101	48795	No
18	GOM_NL__2PRFIN20110630_011257_000000503104_00074_48795_0988.N1	30-JUN-2011 01:12:57	Tw_i_and_stray	50.000	173	4Bet Tri	3.0040	8900.0	100	48795	No
19	GOM_NL__2PRFIN20110630_011710_000000563104_00074_48795_0989.N1	30-JUN-2011 01:17:10	Dark	56.000	50	13Alp Ari	2.0070	4250.0	112	48795	No
20	GOM_NL__2PRFIN20110630_012208_000000483104_00074_48795_0990.N1	30-JUN-2011 01:22:08	Dark	47.500	94	92Alp Cet	2.5260	3100.0	95	48795	No
21	GOM_NL__2PRFIN20110630_014119_000000493104_00075_48796_0971.N1	30-JUN-2011 01:41:19	Dark	49.000	84	Alp Phe	2.3970	4500.0	98	48796	No
22	GOM_NL__2PRFIN20110630_014746_000000543104_00075_48796_0972.N1	30-JUN-2011 01:47:46	Straylight	53.500	63	Bet Gru	2.1500	2800.0	107	48796	No
23	GOM_NL__2PRFIN20110630_014943_000000603104_00075_48796_0973.N1	30-JUN-2011 01:49:43	Straylight	60.000	31	Alp Gru	1.7340	15200.	120	48796	No
24	GOM_NL__2PRFIN20110630_015206_000000423104_00075_48796_0974.N1	30-JUN-2011 01:52:06	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	48796	No
25	GOM_NL__2PRFIN20110630_020134_000000463104_00075_48796_0975.N1	30-JUN-2011 02:01:34	Tw_i_and_stray	45.500	103	38Zet Sgr	2.6000	9700.0	91	48796	No
26	GOM_NL__2PRFIN20110630_020419_000000463104_00075_48796_0976.N1	30-JUN-2011 02:04:19	Bright	46.000	155	41Pi Sgr	2.9000	6600.0	92	48796	No
27	GOM_NL__2PRFIN20110630_021239_000000393104_00075_48796_0977.N1	30-JUN-2011 02:12:39	Bright	38.500	126	60Bet Oph	2.7700	4250.0	77	48796	No
28	GOM_NL__2PRFIN20110630_021459_000000393104_00075_48796_0978.N1	30-JUN-2011 02:14:59	Bright	38.500	59	55Alp Oph	2.0800	8900.0	77	48796	No
29	GOM_NL__2PRFIN20110630_021648_000000493104_00075_48796_0979.N1	30-JUN-2011 02:16:48	Bright	48.500	168	17Zet Aql	2.9860	11000.	97	48796	No
30	GOM_NL__2PRFIN20110630_022347_000000443104_00075_48796_0980.N1	30-JUN-2011 02:23:47	Bright	44.000	5	3Alp Lyr	0.033000	11000.	88	48796	No
31	GOM_NL__2PRFIN20110630_022623_000000383104_00075_48796_0981.N1	30-JUN-2011 02:26:23	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	48796	No
32	GOM_NL__2PRFIN20110630_022817_000000463104_00075_48796_0982.N1	30-JUN-2011 02:28:17	Bright	46.000	144	18Del Cyg	2.8600	11000.	92	48796	No
33	GOM_NL__2PRFIN20110630_023516_000000463104_00075_48796_0983.N1	30-JUN-2011 02:35:16	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	48796	No
34	GOM_NL__2PRFIN20110630_024235_000000483104_00075_48796_0984.N1	30-JUN-2011 02:42:35	Bright	48.000	74	11Bet Cas	2.2680	6600.0	96	48796	No
35	GOM_NL__2PRFIN20110630_024416_000000483104_00075_48796_0985.N1	30-JUN-2011 02:44:16	Bright	48.000	68	18Alp Cas	2.2250	4500.0	96	48796	No
36	GOM_NL__2PRFIN20110630_024712_000000533104_00075_48796_0986.N1	30-JUN-2011 02:47:12	Bright	52.500	160	23Gam Per	2.9300	4700.0	105	48796	No
37	GOM_NL__2PRFIN20110630_025034_000000463104_00075_48796_0987.N1	30-JUN-2011 02:50:34	Bright	46.000	73	57Gam1And	2.2600	13100.	92	48796	No
38	GOM_NL__2PRFIN20110630_025311_000000513104_00075_48796_0988.N1	30-JUN-2011 02:53:11	Tw_i_and_stray	51.000	173	4Bet Tri	3.0040	8900.0	102	48796	No
39	GOM_NL__2PRFIN20110630_025724_000000583104_00075_48796_0989.N1	30-JUN-2011 02:57:24	Dark	58.000	50	13Alp Ari	2.0070	4250.0	116	48796	No
40	GOM_NL__2PRFIN20110630_030222_000000493104_00075_48796_0990.N1	30-JUN-2011 03:02:22	Dark	48.500	94	92Alp Cet	2.5260	3100.0	97	48796	No
41	GOM_NL__2PRFIN20110630_032134_000000473104_00076_48797_0971.N1	30-JUN-2011 03:21:34	Dark	47.000	84	Alp Phe	2.3970	4500.0	94	48797	No
42	GOM_NL__2PRFIN20110630_032801_000000533104_00076_48797_0972.N1	30-JUN-2011 03:28:01	Straylight	53.000	63	Bet Gru	2.1500	2800.0	106	48797	No

43	GOM_NL__2PRFIN20110630_032958_000000503104_00076_48797_0973.N1	30-JUN-2011 03:29:58	Straylight	50.000	31	Alp Gru	1.7340	15200.	100	48797	No
44	GOM_NL__2PRFIN20110630_033221_000000443104_00076_48797_0974.N1	30-JUN-2011 03:32:21	Straylight	43.500	45	Alp Pav	1.9400	26000.	87	48797	No
45	GOM_NL__2PRFIN20110630_034148_000000483104_00076_48797_0975.N1	30-JUN-2011 03:41:48	Twi_and_stray	47.500	103	38Zet Sgr	2.6000	9700.0	95	48797	No
46	GOM_NL__2PRFIN20110630_034433_000000463104_00076_48797_0976.N1	30-JUN-2011 03:44:33	Bright	45.500	155	41Pi Sgr	2.9000	6600.0	91	48797	No
47	GOM_NL__2PRFIN20110630_035253_000000383104_00076_48797_0977.N1	30-JUN-2011 03:52:53	Bright	37.500	126	60Bet Oph	2.7700	4250.0	75	48797	No
48	GOM_NL__2PRFIN20110630_035513_000000383104_00076_48797_0978.N1	30-JUN-2011 03:55:13	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	48797	No
49	GOM_NL__2PRFIN20110630_035702_000000493104_00076_48797_0979.N1	30-JUN-2011 03:57:02	Bright	48.500	168	17Zet Aql	2.9860	11000.	97	48797	No
50	GOM_NL__2PRFIN20110630_040401_000000443104_00076_48797_0980.N1	30-JUN-2011 04:04:01	Bright	43.500	5	3Alp Lyr	0.033000	11000.	87	48797	No
51	GOM_NL__2PRFIN20110630_040637_000000353104_00076_48797_0981.N1	30-JUN-2011 04:06:37	Bright	35.000	130	23Bet Dra	2.7990	5800.0	70	48797	No
52	GOM_NL__2PRFIN20110630_040830_000000493104_00076_48797_0982.N1	30-JUN-2011 04:08:30	Bright	49.000	144	18Del Cyg	2.8600	11000.	98	48797	No
53	GOM_NL__2PRFIN20110630_041529_000000463104_00076_48797_0983.N1	30-JUN-2011 04:15:29	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	48797	No
54	GOM_NL__2PRFIN20110630_042248_000000503104_00076_48797_0984.N1	30-JUN-2011 04:22:48	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	48797	No
55	GOM_NL__2PRFIN20110630_042430_000000493104_00076_48797_0985.N1	30-JUN-2011 04:24:30	Bright	49.000	68	18Alp Cas	2.2250	4500.0	98	48797	No
56	GOM_NL__2PRFIN20110630_042726_000000563104_00076_48797_0986.N1	30-JUN-2011 04:27:26	Bright	56.000	160	23Gam Per	2.9300	4700.0	112	48797	No
57	GOM_NL__2PRFIN20110630_043048_000000503104_00076_48797_0987.N1	30-JUN-2011 04:30:48	Bright	49.500	73	57Gam1And	2.2600	13100.	99	48797	No
58	GOM_NL__2PRFIN20110630_043325_000000473104_00076_48797_0988.N1	30-JUN-2011 04:33:25	Twi_and_stray	46.500	173	4Bet Tri	3.0040	8900.0	93	48797	No
59	GOM_NL__2PRFIN20110630_043739_000000543104_00076_48797_0989.N1	30-JUN-2011 04:37:39	Dark	54.000	50	13Alp Ari	2.0070	4250.0	108	48797	No
60	GOM_NL__2PRFIN20110630_044237_000000473104_00076_48797_0990.N1	30-JUN-2011 04:42:37	Dark	47.000	94	92Alp Cet	2.5260	3100.0	94	48797	No
61	GOM_NL__2PRFIN20110630_050149_000000473104_00077_48798_0991.N1	30-JUN-2011 05:01:49	Dark	47.000	84	Alp Phe	2.3970	4500.0	94	48798	No
62	GOM_NL__2PRFIN20110630_050816_000000513104_00077_48798_0992.N1	30-JUN-2011 05:08:16	Straylight	51.000	63	Bet Gru	2.1500	2800.0	102	48798	No
63	GOM_NL__2PRFIN20110630_051012_000000503104_00077_48798_0993.N1	30-JUN-2011 05:10:12	Straylight	50.000	31	Alp Gru	1.7340	15200.	100	48798	No
64	GOM_NL__2PRFIN20110630_051235_000000413104_00077_48798_0994.N1	30-JUN-2011 05:12:35	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	48798	No
65	GOM_NL__2PRFIN20110630_052203_000000463104_00077_48798_0995.N1	30-JUN-2011 05:22:03	Twi_and_stray	45.500	103	38Zet Sgr	2.6000	9700.0	91	48798	No
66	GOM_NL__2PRFIN20110630_052448_000000463104_00077_48798_0996.N1	30-JUN-2011 05:24:48	Bright	45.500	155	41Pi Sgr	2.9000	6600.0	91	48798	No
67	GOM_NL__2PRFIN20110630_053308_000000383104_00077_48798_0997.N1	30-JUN-2011 05:33:08	Bright	37.500	126	60Bet Oph	2.7700	4250.0	75	48798	No
68	GOM_NL__2PRFIN20110630_053527_000000383104_00077_48798_0998.N1	30-JUN-2011 05:35:27	Bright	38.000	59	55Alp Oph	2.0800	8900.0	76	48798	No
69	GOM_NL__2PRFIN20110630_053715_000000483104_00077_48798_0999.N1	30-JUN-2011 05:37:15	Bright	47.500	168	17Zet Aql	2.9860	11000.	95	48798	No
70	GOM_NL__2PRFIN20110630_054414_000000443104_00077_48798_1000.N1	30-JUN-2011 05:44:14	Bright	44.000	5	3Alp Lyr	0.033000	11000.	88	48798	No
71	GOM_NL__2PRFIN20110630_054651_000000383104_00077_48798_1001.N1	30-JUN-2011 05:46:51	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	48798	No
72	GOM_NL__2PRFIN20110630_054843_000000473104_00077_48798_1002.N1	30-JUN-2011 05:48:43	Bright	47.000	144	18Del Cyg	2.8600	11000.	94	48798	No
73	GOM_NL__2PRFIN20110630_055542_000000453104_00077_48798_1003.N1	30-JUN-2011 05:55:42	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	48798	No
74	GOM_NL__2PRFIN20110630_060302_000000503104_00077_48798_1004.N1	30-JUN-2011 06:03:02	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	48798	No
75	GOM_NL__2PRFIN20110630_060434_000000403104_00077_48798_1005.N1	30-JUN-2011 06:04:34	Bright	40.000	110	37Del Cas	2.6780	8900.0	80	48798	No
76	GOM_NL__2PRFIN20110630_060740_000000363104_00077_48798_1006.N1	30-JUN-2011 06:07:40	Bright	36.000	160	23Gam Per	2.9300	4700.0	72	48798	No
77	GOM_NL__2PRFIN20110630_061102_000000473104_00077_48798_1007.N1	30-JUN-2011 06:11:02	Bright	46.500	73	57Gam1And	2.2600	13100.	93	48798	No
78	GOM_NL__2PRFIN20110630_061339_000000513104_00077_48798_1008.N1	30-JUN-2011 06:13:39	Twi_and_stray	50.500	173	4Bet Tri	3.0040	8900.0	101	48798	No
79	GOM_NL__2PRFIN20110630_061753_000000553104_00077_48798_1009.N1	30-JUN-2011 06:17:53	Dark	54.500	50	13Alp Ari	2.0070	4250.0	109	48798	No
80	GOM_NL__2PRFIN20110630_062251_000000483104_00077_48798_1010.N1	30-JUN-2011 06:22:51	Dark	47.500	94	92Alp Cet	2.5260	3100.0	95	48798	No
81	GOM_NL__2PRFIN20110630_064204_000000503104_00078_48799_0991.N1	30-JUN-2011 06:42:04	Dark	50.000	84	Alp Phe	2.3970	4500.0	100	48799	No
82	GOM_NL__2PRFIN20110630_064831_000000603104_00078_48799_0992.N1	30-JUN-2011 06:48:31	Straylight	60.000	63	Bet Gru	2.1500	2800.0	120	48799	No
83	GOM_NL__2PRFIN20110630_065027_000000583104_00078_48799_0993.N1	30-JUN-2011 06:50:27	Straylight	58.000	31	Alp Gru	1.7340	15200.	116	48799	No
84	GOM_NL__2PRFIN20110630_065250_000000413104_00078_48799_0994.N1	30-JUN-2011 06:52:50	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	48799	No
85	GOM_NL__2PRFIN20110630_070217_000000463104_00078_48799_0995.N1	30-JUN-2011 07:02:17	Twi_and_stray	46.000	103	38Zet Sgr	2.6000	9700.0	92	48799	No
86	GOM_NL__2PRFIN20110630_070502_000000453104_00078_48799_0996.N1	30-JUN-2011 07:05:02	Bright	44.500	155	41Pi Sgr	2.9000	6600.0	89	48799	No
87	GOM_NL__2PRFIN20110630_071322_000000383104_00078_48799_0997.N1	30-JUN-2011 07:13:22	Bright	37.500	126	60Bet Oph	2.7700	4250.0	75	48799	No
88	GOM_NL__2PRFIN20110630_071541_000000383104_00078_48799_0998.N1	30-JUN-2011 07:15:41	Bright	38.000	59	55Alp Oph	2.0800	8900.0	76	48799	No
89	GOM_NL__2PRFIN20110630_071729_000000493104_00078_48799_0999.N1	30-JUN-2011 07:17:29	Bright	49.000	168	17Zet Aql	2.9860	11000.	98	48799	No
90	GOM_NL__2PRFIN20110630_072428_000000433104_00078_48799_1000.N1	30-JUN-2011 07:24:28	Bright	42.500	5	3Alp Lyr	0.033000	11000.	85	48799	No
91	GOM_NL__2PRFIN20110630_072705_000000393104_00078_48799_1001.N1	30-JUN-2011 07:27:05	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	48799	No
92	GOM_NL__2PRFIN20110630_072856_000000543104_00078_48799_1002.N1	30-JUN-2011 07:28:56	Bright	54.000	144	18Del Cyg	2.8600	11000.	108	48799	No
93	GOM_NL__2PRFIN20110630_073556_000000473104_00078_48799_1003.N1	30-JUN-2011 07:35:56	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	48799	No
94	GOM_NL__2PRFIN20110630_074315_000000493104_00078_48799_1004.N1	30-JUN-2011 07:43:15	Bright	48.500	74	11Bet Cas	2.2680	6600.0	97	48799	No
95	GOM_NL__2PRFIN20110630_074448_000000403104_00078_48799_1005.N1	30-JUN-2011 07:44:48	Bright	40.000	110	37Del Cas	2.6780	8900.0	80	48799	No
96	GOM_NL__2PRFIN20110630_074754_000000423104_00078_48799_1006.N1	30-JUN-2011 07:47:54	Bright	42.000	160	23Gam Per	2.9300	4700.0	84	48799	No
97	GOM_NL__2PRFIN20110630_075116_000000513104_00078_48799_1007.N1	30-JUN-2011 07:51:16	Bright	50.500	73	57Gam1And	2.2600	13100.	101	48799	No
98	GOM_NL__2PRFIN20110630_075354_000000483104_00078_48799_1008.N1	30-JUN-2011 07:53:54	Twi_and_stray	47.500	173	4Bet Tri	3.0040	8900.0	95	48799	No
99	GOM_NL__2PRFIN20110630_075807_000000573104_00078_48799_1009.N1	30-JUN-2011 07:58:07	Dark	57.000	50	13Alp Ari	2.0070	4250.0	114	48799	No
100	GOM_NL__2PRFIN20110630_080306_000000503104_00078_48799_1010.N1	30-JUN-2011 08:03:06	Dark	50.000	94	92Alp Cet	2.5260	3100.0	100	48799	No
101	GOM_NL__2PRFIN20110630_082219_000000613104_00079_48800_0991.N1	30-JUN-2011 08:22:19	Dark	60.500	84	Alp Phe	2.3970	4500.0	121	48800	No

102	GOM_NL__2PRFIN20110630_082846_000000513104_00079_48800_0992.N1	30-JUN-2011 08:28:46	Straylight	51.000	63	Bet Gru	2.1500	2800.0	102	48800	No
103	GOM_NL__2PRFIN20110630_083042_000000613104_00079_48800_0993.N1	30-JUN-2011 08:30:42	Straylight	61.000	31	Alp Gru	1.7340	15200.	122	48800	No
104	GOM_NL__2PRFIN20110630_083305_000000463104_00079_48800_0994.N1	30-JUN-2011 08:33:05	Straylight	45.500	45	Alp Pav	1.9400	26000.	91	48800	No
105	GOM_NL__2PRFIN20110630_084231_000000483104_00079_48800_0995.N1	30-JUN-2011 08:42:31	Tw_i_and_stray	47.500	103	38Zet Sgr	2.6000	9700.0	95	48800	No
106	GOM_NL__2PRFIN20110630_084516_000000453104_00079_48800_0996.N1	30-JUN-2011 08:45:16	Bright	45.000	155	41Pi Sgr	2.9000	6600.0	90	48800	No
107	GOM_NL__2PRFIN20110630_085335_000000383104_00079_48800_0997.N1	30-JUN-2011 08:53:35	Bright	37.500	126	60Bet Oph	2.7700	4250.0	75	48800	No
108	GOM_NL__2PRFIN20110630_085555_000000543104_00079_48800_0998.N1	30-JUN-2011 08:55:55	Bright	54.000	59	55Alp Oph	2.0800	8900.0	108	48800	No
109	GOM_NL__2PRFIN20110630_085743_000000493104_00079_48800_0999.N1	30-JUN-2011 08:57:43	Bright	49.000	168	17Zet Aql	2.9860	11000.	98	48800	No
110	GOM_NL__2PRFIN20110630_090441_000000453104_00079_48800_1000.N1	30-JUN-2011 09:04:41	Bright	44.500	5	3Alp Lyr	0.033000	11000.	89	48800	No
111	GOM_NL__2PRFIN20110630_090719_000000383104_00079_48800_1001.N1	30-JUN-2011 09:07:19	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	48800	No
112	GOM_NL__2PRFIN20110630_090909_000000613104_00079_48800_1002.N1	30-JUN-2011 09:09:09	Bright	61.000	144	18Del Cyg	2.8600	11000.	122	48800	No
113	GOM_NL__2PRFIN20110630_091609_000000453104_00079_48800_1003.N1	30-JUN-2011 09:16:09	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	48800	No
114	GOM_NL__2PRFIN20110630_092329_000000473104_00079_48800_1004.N1	30-JUN-2011 09:23:29	Bright	47.000	74	11Bet Cas	2.2680	6600.0	94	48800	No
115	GOM_NL__2PRFIN20110630_092502_000000413104_00079_48800_1005.N1	30-JUN-2011 09:25:02	Bright	40.500	110	37Del Cas	2.6780	8900.0	81	48800	No
116	GOM_NL__2PRFIN20110630_092808_000000503104_00079_48800_1006.N1	30-JUN-2011 09:28:08	Bright	50.000	160	23Gam Per	2.9300	4700.0	100	48800	No
117	GOM_NL__2PRFIN20110630_092951_000000373104_00079_48800_1007.N1	30-JUN-2011 09:29:51	Bright	37.000	175	39Del Per	3.0100	19400.	74	48800	No
118	GOM_NL__2PRFIN20110630_093130_000000583104_00079_48800_1008.N1	30-JUN-2011 09:31:30	Bright	57.500	73	57Gam1And	2.2600	13100.	115	48800	No
119	GOM_NL__2PRFIN20110630_093408_000000483104_00079_48800_1009.N1	30-JUN-2011 09:34:08	Tw_i_and_stray	48.000	173	4Bet Tri	3.0040	8900.0	96	48800	No
120	GOM_NL__2PRFIN20110630_093822_000000613104_00079_48800_1010.N1	30-JUN-2011 09:38:22	Dark	61.000	50	13Alp Ari	2.0070	4250.0	122	48800	No
121	GOM_NL__2PRFIN20110630_094320_000000403104_00079_48800_1011.N1	30-JUN-2011 09:43:20	Dark	40.000	94	92Alp Cet	2.5260	3100.0	80	48800	No
122	GOM_NL__2PRFIN20110630_100234_000000593104_00080_48801_0991.N1	30-JUN-2011 10:02:34	Dark	59.000	84	Alp Phe	2.3970	4500.0	118	48801	No
123	GOM_NL__2PRFIN20110630_100901_000000663104_00080_48801_0992.N1	30-JUN-2011 10:09:01	Straylight	66.000	63	Bet Gru	2.1500	2800.0	132	48801	No
124	GOM_NL__2PRFIN20110630_101057_000000523104_00080_48801_0993.N1	30-JUN-2011 10:10:57	Straylight	52.000	31	Alp Gru	1.7340	15200.	104	48801	No
125	GOM_NL__2PRFIN20110630_101319_000000463104_00080_48801_0994.N1	30-JUN-2011 10:13:19	Straylight	45.500	45	Alp Pav	1.9400	26000.	91	48801	No
126	GOM_NL__2PRFIN20110630_102246_000000493104_00080_48801_0995.N1	30-JUN-2011 10:22:46	Tw_i_and_stray	48.500	103	38Zet Sgr	2.6000	9700.0	97	48801	No
127	GOM_NL__2PRFIN20110630_102530_000000453104_00080_48801_0996.N1	30-JUN-2011 10:25:30	Bright	44.500	155	41Pi Sgr	2.9000	6600.0	89	48801	No
128	GOM_NL__2PRFIN20110630_103350_000000383104_00080_48801_0997.N1	30-JUN-2011 10:33:50	Bright	37.500	126	60Bet Oph	2.7700	4250.0	75	48801	No
129	GOM_NL__2PRFIN20110630_103609_000000373104_00080_48801_0998.N1	30-JUN-2011 10:36:09	Bright	36.500	59	55Alp Oph	2.0800	8900.0	73	48801	No
130	GOM_NL__2PRFIN20110630_103756_000000503104_00080_48801_0999.N1	30-JUN-2011 10:37:56	Bright	49.500	168	17Zet Aql	2.9860	11000.	99	48801	No
131	GOM_NL__2PRFIN20110630_104455_000000483104_00080_48801_1000.N1	30-JUN-2011 10:44:55	Bright	48.000	5	3Alp Lyr	0.033000	11000.	96	48801	No
132	GOM_NL__2PRFIN20110630_104733_000000383104_00080_48801_1001.N1	30-JUN-2011 10:47:33	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	48801	No
133	GOM_NL__2PRFIN20110630_104922_000000483104_00080_48801_1002.N1	30-JUN-2011 10:49:22	Bright	48.000	144	18Del Cyg	2.8600	11000.	96	48801	No
134	GOM_NL__2PRFIN20110630_105623_000000453104_00080_48801_1003.N1	30-JUN-2011 10:56:23	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	48801	No
135	GOM_NL__2PRFIN20110630_110342_000000473104_00080_48801_1004.N1	30-JUN-2011 11:03:42	Bright	46.500	74	11Bet Cas	2.2680	6600.0	93	48801	No
136	GOM_NL__2PRFIN20110630_110515_000000413104_00080_48801_1005.N1	30-JUN-2011 11:05:15	Bright	41.000	110	37Del Cas	2.6780	8900.0	82	48801	No
137	GOM_NL__2PRFIN20110630_110821_000000363104_00080_48801_1006.N1	30-JUN-2011 11:08:21	Bright	36.000	160	23Gam Per	2.9300	4700.0	72	48801	No
138	GOM_NL__2PRFIN20110630_111005_000000343104_00080_48801_1007.N1	30-JUN-2011 11:10:05	Bright	34.000	175	39Del Per	3.0100	19400.	68	48801	No
139	GOM_NL__2PRFIN20110630_111144_000000493104_00080_48801_1008.N1	30-JUN-2011 11:11:44	Bright	48.500	73	57Gam1And	2.2600	13100.	97	48801	No
140	GOM_NL__2PRFIN20110630_111421_000000503104_00080_48801_1009.N1	30-JUN-2011 11:14:21	Tw_i_and_stray	50.000	173	4Bet Tri	3.0040	8900.0	100	48801	No
141	GOM_NL__2PRFIN20110630_111836_000000563104_00080_48801_1010.N1	30-JUN-2011 11:18:36	Dark	55.500	50	13Alp Ari	2.0070	4250.0	111	48801	No
142	GOM_NL__2PRFIN20110630_112335_000000433104_00080_48801_1011.N1	30-JUN-2011 11:23:35	Dark	43.000	94	92Alp Cet	2.5260	3100.0	86	48801	No
143	GOM_NL__2PRFIN20110630_114249_000000503104_00081_48802_0991.N1	30-JUN-2011 11:42:49	Dark	50.000	84	Alp Phe	2.3970	4500.0	100	48802	No
144	GOM_NL__2PRFIN20110630_114916_000000533104_00081_48802_0992.N1	30-JUN-2011 11:49:16	Straylight	53.000	63	Bet Gru	2.1500	2800.0	106	48802	No
145	GOM_NL__2PRFIN20110630_115112_000000543104_00081_48802_0993.N1	30-JUN-2011 11:51:12	Straylight	54.000	31	Alp Gru	1.7340	15200.	108	48802	No
146	GOM_NL__2PRFIN20110630_115333_000000433104_00081_48802_0994.N1	30-JUN-2011 11:53:33	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	48802	No
147	GOM_NL__2PRFIN20110630_120300_000000493104_00081_48802_0995.N1	30-JUN-2011 12:03:00	Tw_i_and_stray	48.500	103	38Zet Sgr	2.6000	9700.0	97	48802	No
148	GOM_NL__2PRFIN20110630_120544_000000443104_00081_48802_0996.N1	30-JUN-2011 12:05:44	Bright	43.500	155	41Pi Sgr	2.9000	6600.0	87	48802	No
149	GOM_NL__2PRFIN20110630_121403_000000393104_00081_48802_0997.N1	30-JUN-2011 12:14:03	Bright	38.500	126	60Bet Oph	2.7700	4250.0	77	48802	No
150	GOM_NL__2PRFIN20110630_121623_000000363104_00081_48802_0998.N1	30-JUN-2011 12:16:23	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	48802	No
151	GOM_NL__2PRFIN20110630_121809_000000493104_00081_48802_0999.N1	30-JUN-2011 12:18:09	Bright	48.500	168	17Zet Aql	2.9860	11000.	97	48802	No
152	GOM_NL__2PRFIN20110630_122508_000000463104_00081_48802_1000.N1	30-JUN-2011 12:25:08	Bright	45.500	5	3Alp Lyr	0.033000	11000.	91	48802	No
153	GOM_NL__2PRFIN20110630_122746_000000393104_00081_48802_1001.N1	30-JUN-2011 12:27:46	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	48802	No
154	GOM_NL__2PRFIN20110630_122936_000000493104_00081_48802_1002.N1	30-JUN-2011 12:29:36	Bright	48.500	144	18Del Cyg	2.8600	11000.	97	48802	No
155	GOM_NL__2PRFIN20110630_123636_000000473104_00081_48802_1003.N1	30-JUN-2011 12:36:36	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	48802	No
156	GOM_NL__2PRFIN20110630_124356_000000503104_00081_48802_1004.N1	30-JUN-2011 12:43:56	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	48802	No
157	GOM_NL__2PRFIN20110630_124529_000000633104_00081_48802_1005.N1	30-JUN-2011 12:45:29	Bright	63.000	110	37Del Cas	2.6780	8900.0	126	48802	No
158	GOM_NL__2PRFIN20110630_124835_000000393104_00081_48802_1006.N1	30-JUN-2011 12:48:35	Bright	39.000	160	23Gam Per	2.9300	4700.0	78	48802	No
159	GOM_NL__2PRFIN20110630_125019_000000343104_00081_48802_1007.N1	30-JUN-2011 12:50:19	Bright	34.000	175	39Del Per	3.0100	19400.	68	48802	No
160	GOM_NL__2PRFIN20110630_125157_000000473104_00081_48802_1008.N1	30-JUN-2011 12:51:57	Bright	47.000	73	57Gam1And	2.2600	13100.	94	48802	No





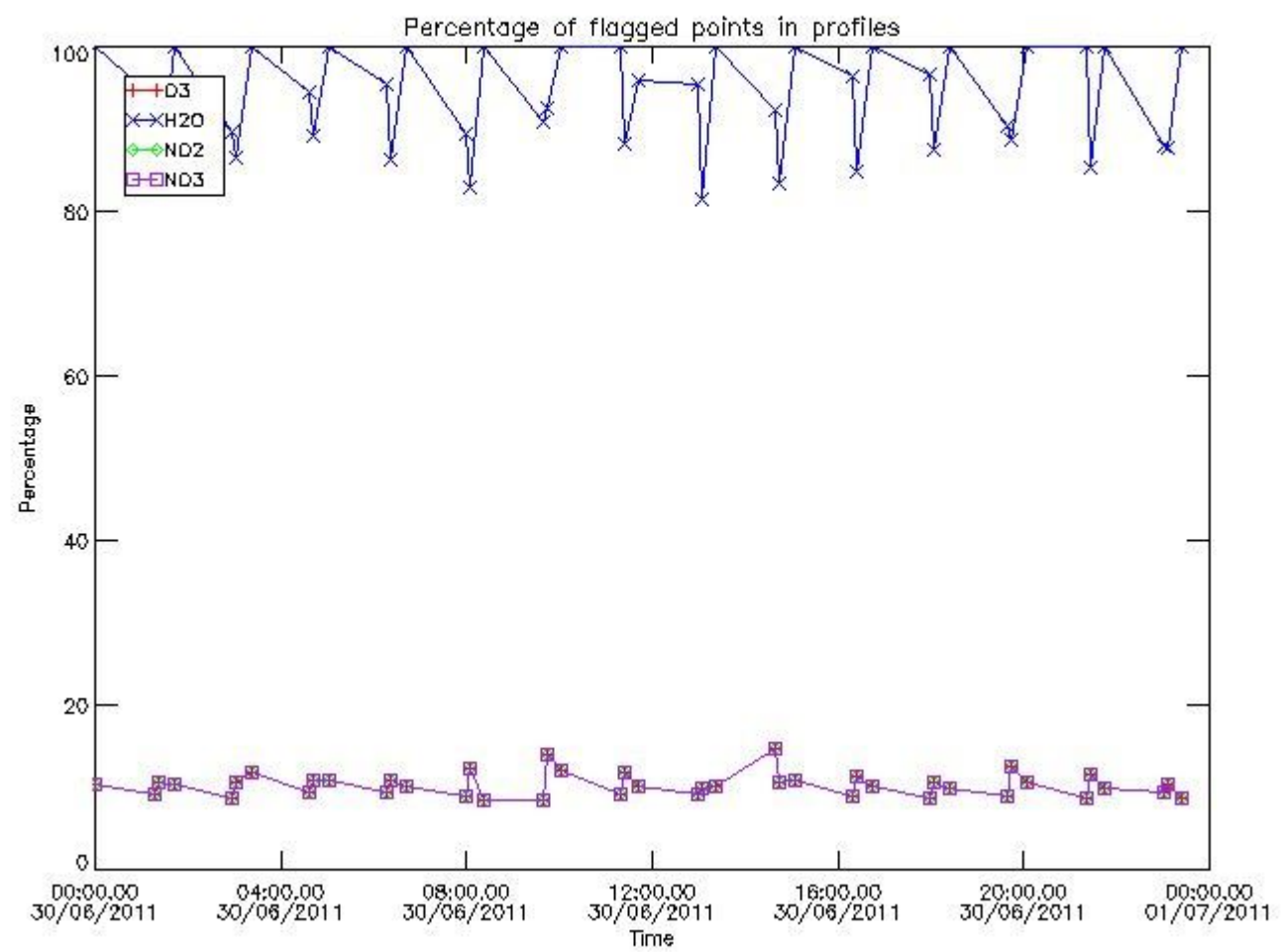


279	GOM_NL__2PRFIN20110630_222909_000000353104_00087_48808_1021.N1	30-JUN-2011 22:29:09	Bright	35.000	130	23Bet Dra	2.7990	5800.0	70	48808	No
280	GOM_NL__2PRFIN20110630_223055_000000473104_00087_48808_1022.N1	30-JUN-2011 22:30:55	Bright	46.500	144	18Del Cyg	2.8600	11000.	93	48808	No
281	GOM_NL__2PRFIN20110630_223756_000000463104_00087_48808_1023.N1	30-JUN-2011 22:37:56	Bright	45.500	89	5Alp Cep	2.4510	8000.0	91	48808	No
282	GOM_NL__2PRFIN20110630_224516_000000473104_00087_48808_1024.N1	30-JUN-2011 22:45:16	Bright	46.500	74	11Bet Cas	2.2680	6600.0	93	48808	No
283	GOM_NL__2PRFIN20110630_224651_000000573104_00087_48808_1025.N1	30-JUN-2011 22:46:51	Bright	57.000	110	37Del Cas	2.6780	8900.0	114	48808	No
284	GOM_NL__2PRFIN20110630_224959_000000443104_00087_48808_1026.N1	30-JUN-2011 22:49:59	Bright	44.000	160	23Gam Per	2.9300	4700.0	88	48808	No
285	GOM_NL__2PRFIN20110630_225143_000000353104_00087_48808_1027.N1	30-JUN-2011 22:51:43	Bright	34.500	175	39Del Per	3.0100	19400.	69	48808	No
286	GOM_NL__2PRFIN20110630_225321_000000603104_00087_48808_1028.N1	30-JUN-2011 22:53:21	Bright	59.500	73	57Gam1And	2.2600	13100.	119	48808	No
287	GOM_NL__2PRFIN20110630_225600_000000513104_00087_48808_1029.N1	30-JUN-2011 22:56:00	Twilight	50.500	173	4Bet Tri	3.0040	8900.0	101	48808	No
288	GOM_NL__2PRFIN20110630_230016_000000593104_00087_48808_1030.N1	30-JUN-2011 23:00:16	Dark	59.000	50	13Alp Ari	2.0070	4250.0	118	48808	No
289	GOM_NL__2PRFIN20110630_230515_000000493104_00087_48808_1031.N1	30-JUN-2011 23:05:15	Dark	48.500	94	92Alp Cet	2.5260	3100.0	97	48808	No
290	GOM_NL__2PRFIN20110630_232434_000000593104_00088_48809_1011.N1	30-JUN-2011 23:24:34	Dark	59.000	84	Alp Phe	2.3970	4500.0	118	48809	No
291	GOM_NL__2PRFIN20110630_233101_000000533104_00088_48809_1012.N1	30-JUN-2011 23:31:01	Straylight	52.500	63	Bet Gru	2.1500	2800.0	105	48809	No
292	GOM_NL__2PRFIN20110630_233256_000000493104_00088_48809_1013.N1	30-JUN-2011 23:32:56	Straylight	48.500	31	Alp Gru	1.7340	15200.	97	48809	No
293	GOM_NL__2PRFIN20110630_233515_000000413104_00088_48809_1014.N1	30-JUN-2011 23:35:15	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	48809	No
294	GOM_NL__2PRFIN20110630_234440_000000463104_00088_48809_1015.N1	30-JUN-2011 23:44:40	Twilight	45.500	103	38Zet Sgr	2.6000	9700.0	91	48809	No
295	GOM_NL__2PRFIN20110630_234724_000000453104_00088_48809_1016.N1	30-JUN-2011 23:47:24	Bright	44.500	155	41Pi Sgr	2.9000	6600.0	89	48809	No
296	GOM_NL__2PRFIN20110630_235541_000000383104_00088_48809_1017.N1	30-JUN-2011 23:55:41	Bright	37.500	126	60Bet Oph	2.7700	4250.0	75	48809	No
297	GOM_NL__2PRFIN20110630_235800_000000373104_00088_48809_1018.N1	30-JUN-2011 23:58:00	Bright	37.000	59	55Alp Oph	2.0800	8900.0	74	48809	No
298	GOM_NL__2PRFIN20110630_235943_000000483104_00088_48809_1019.N1	30-JUN-2011 23:59:43	Bright	48.000	168	17Zet Aql	2.9860	11000.	96	48809	No

### 3. Quality information per product

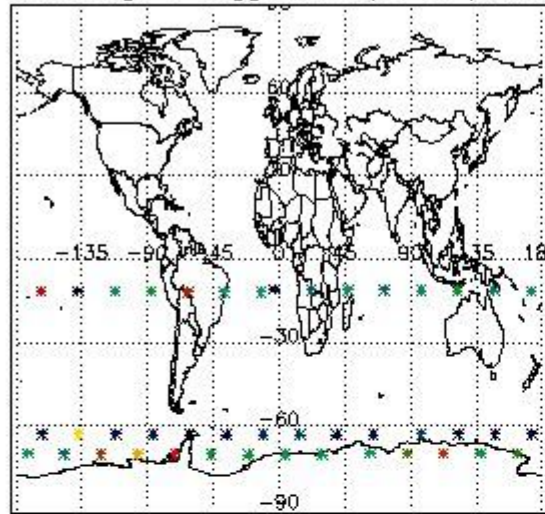
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

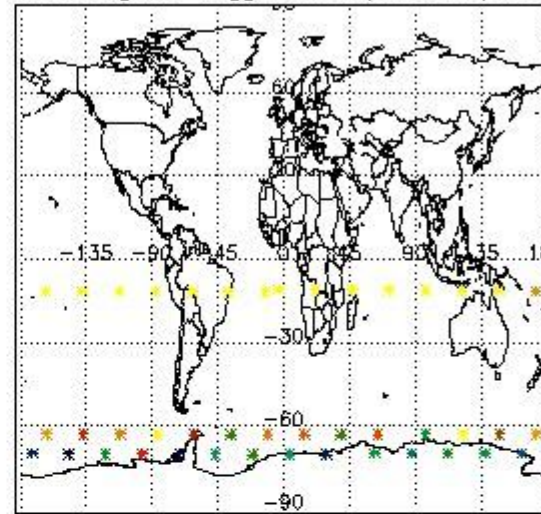


*3.2 Plot quality information per product (world map)*

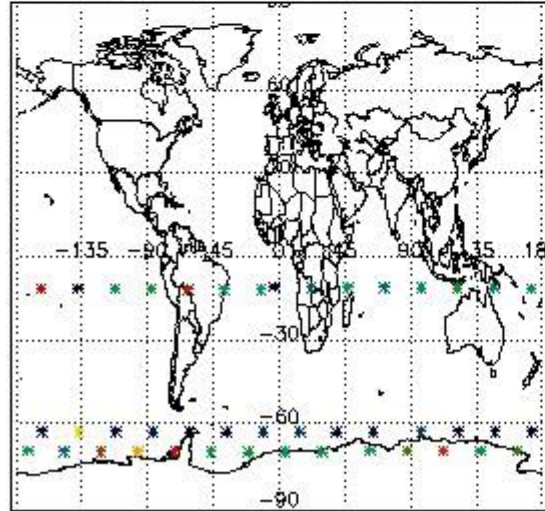
Percentage of flagged data per O3 profile



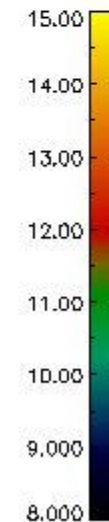
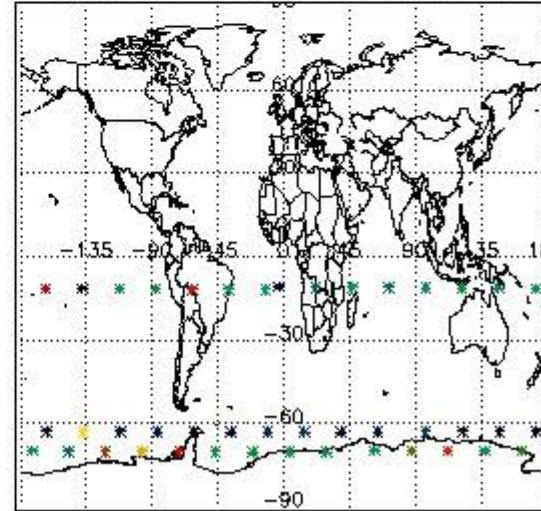
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

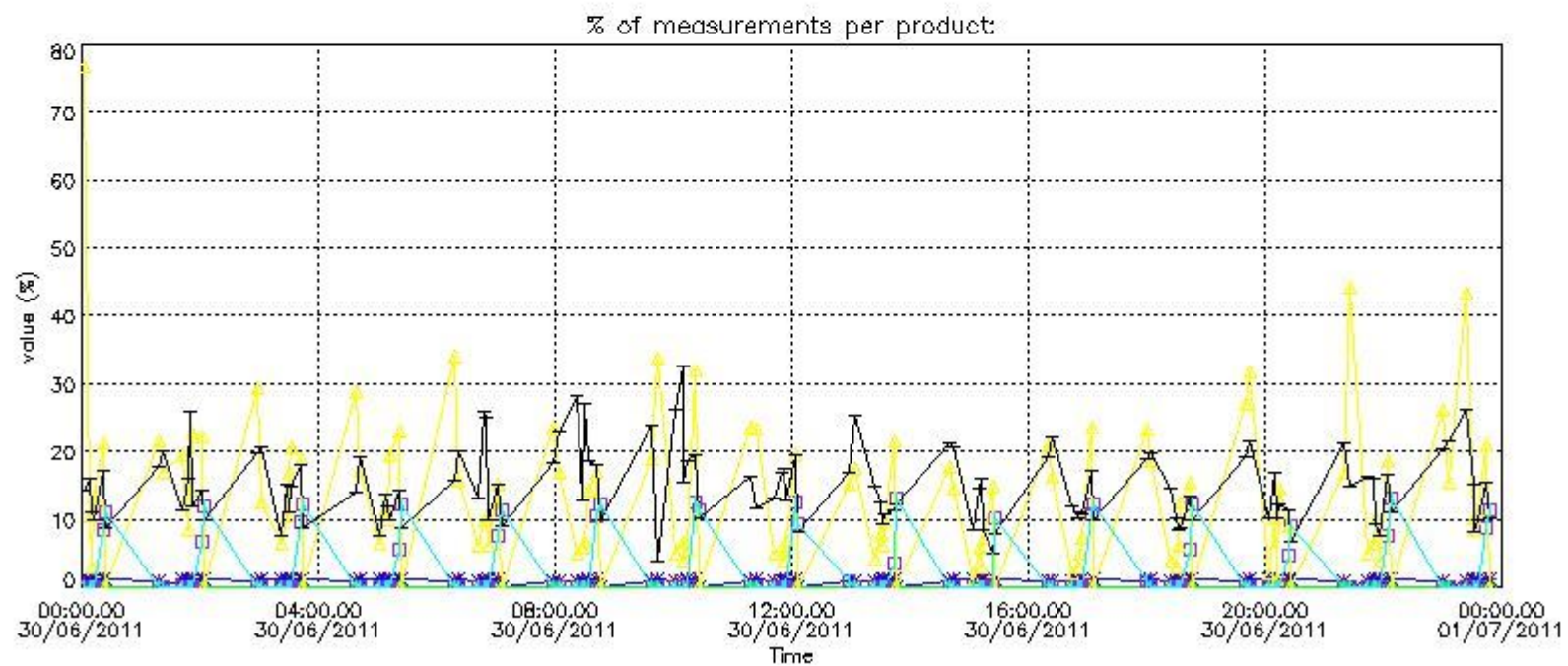
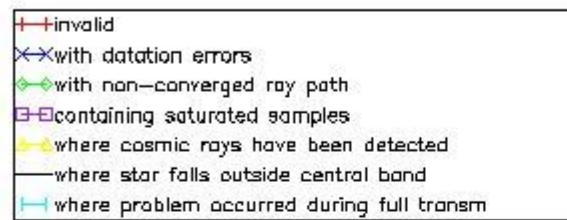


#### 4. Level 1 quality information per product

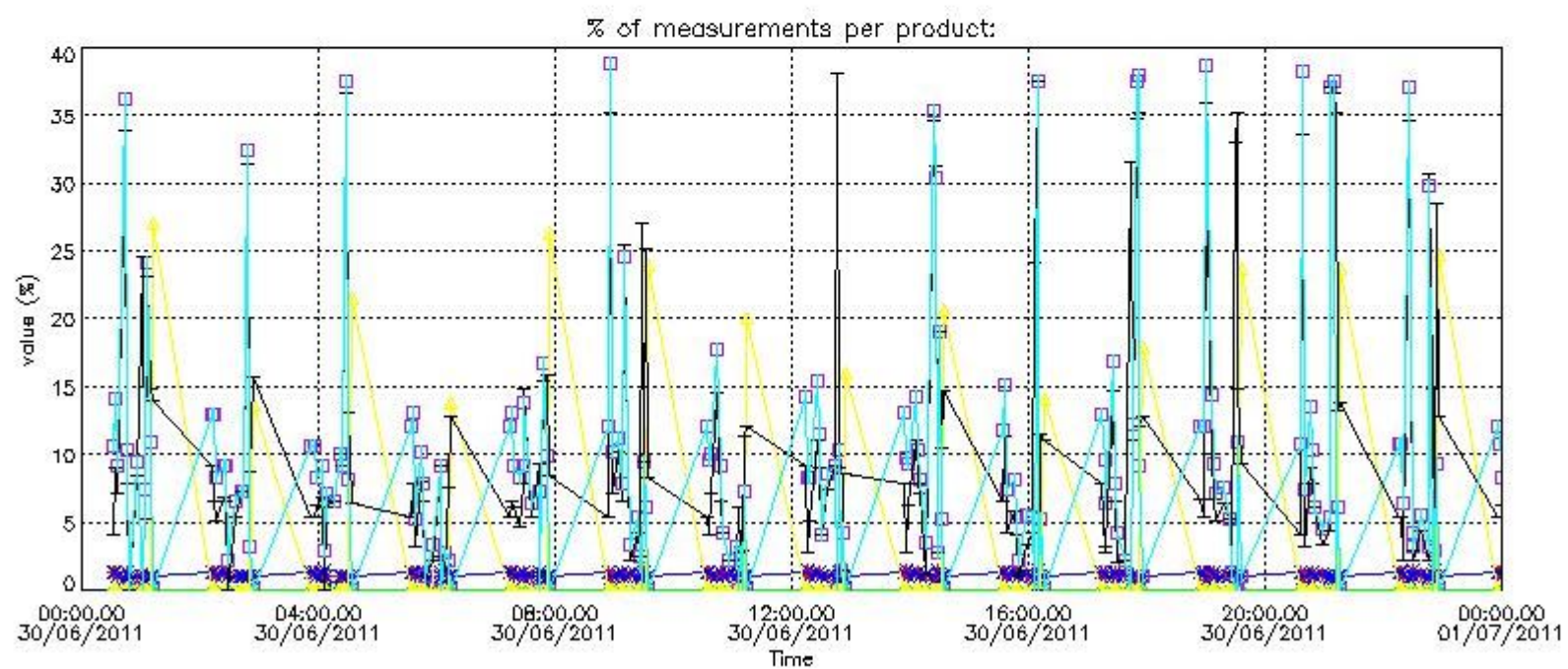
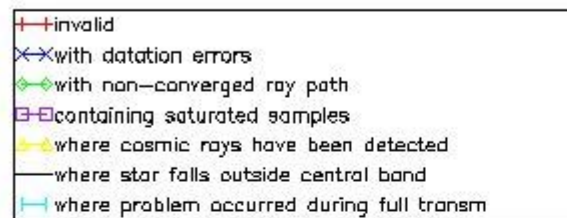
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

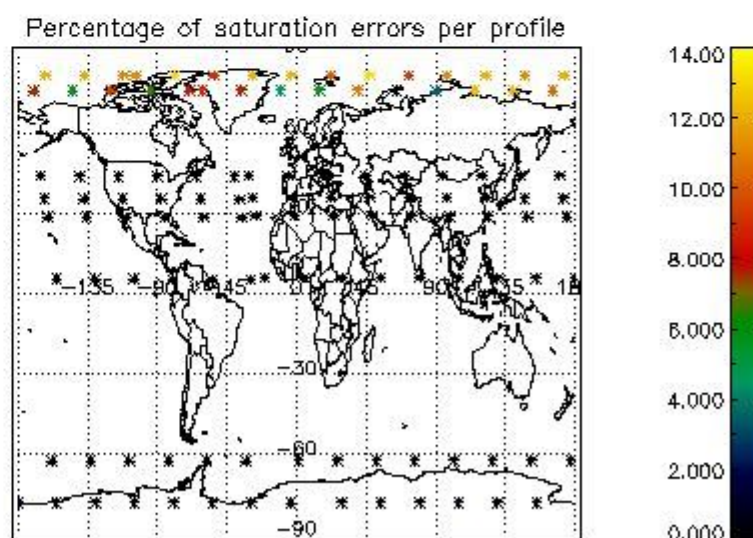
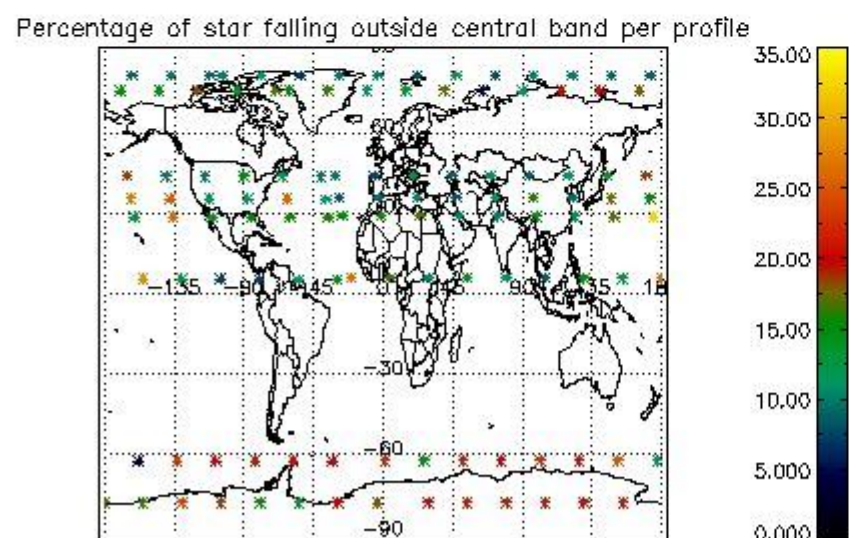
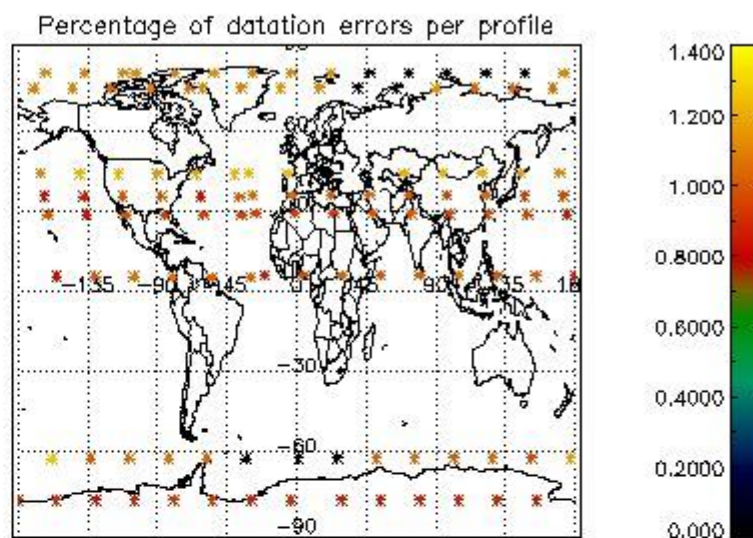
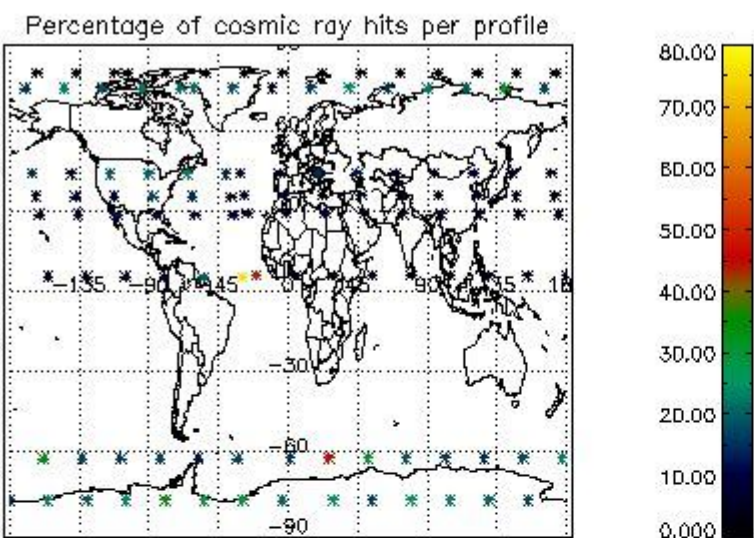


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



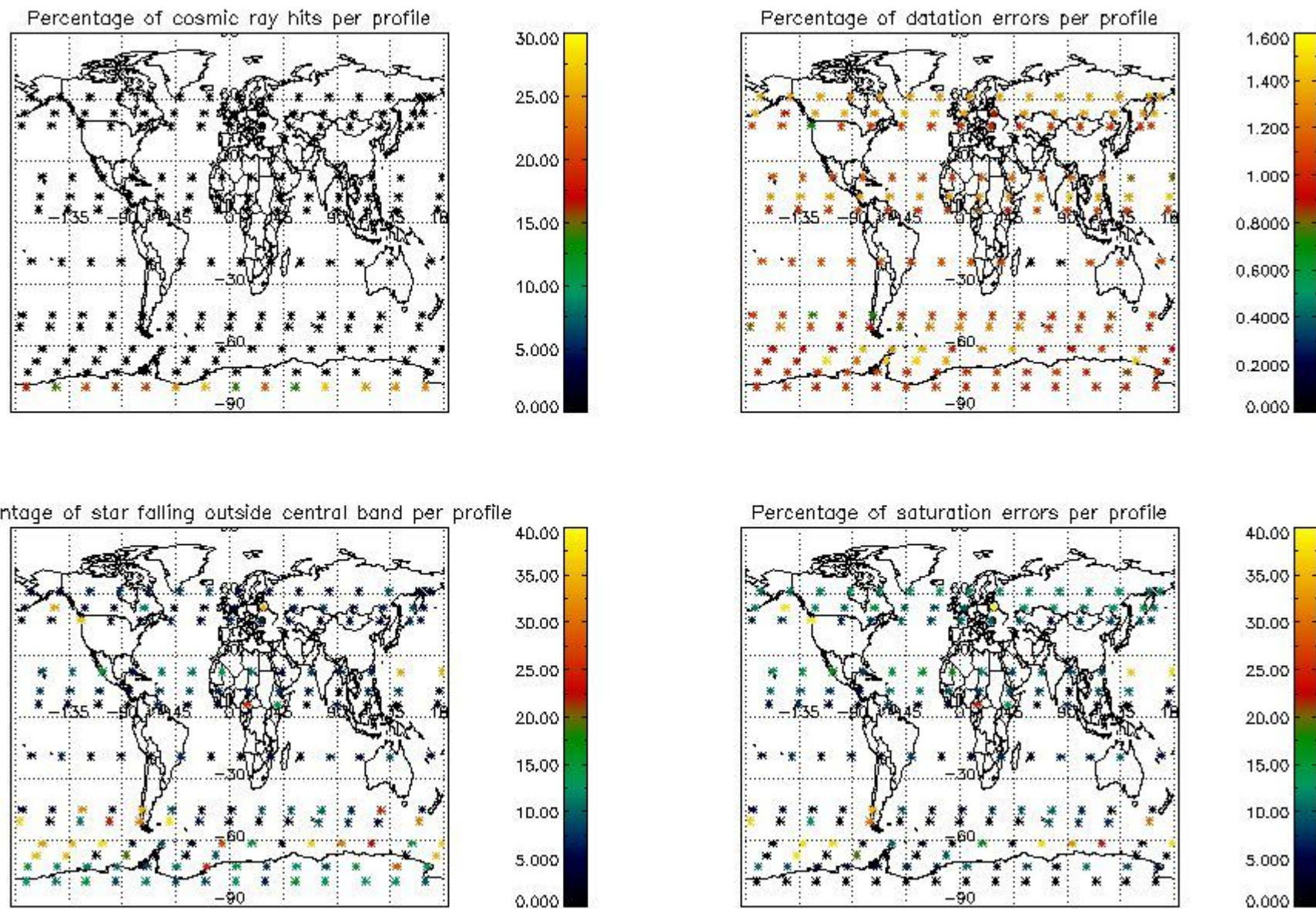
*4.2 Plot quality information per product coming from level 1b processing (world map)*

*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

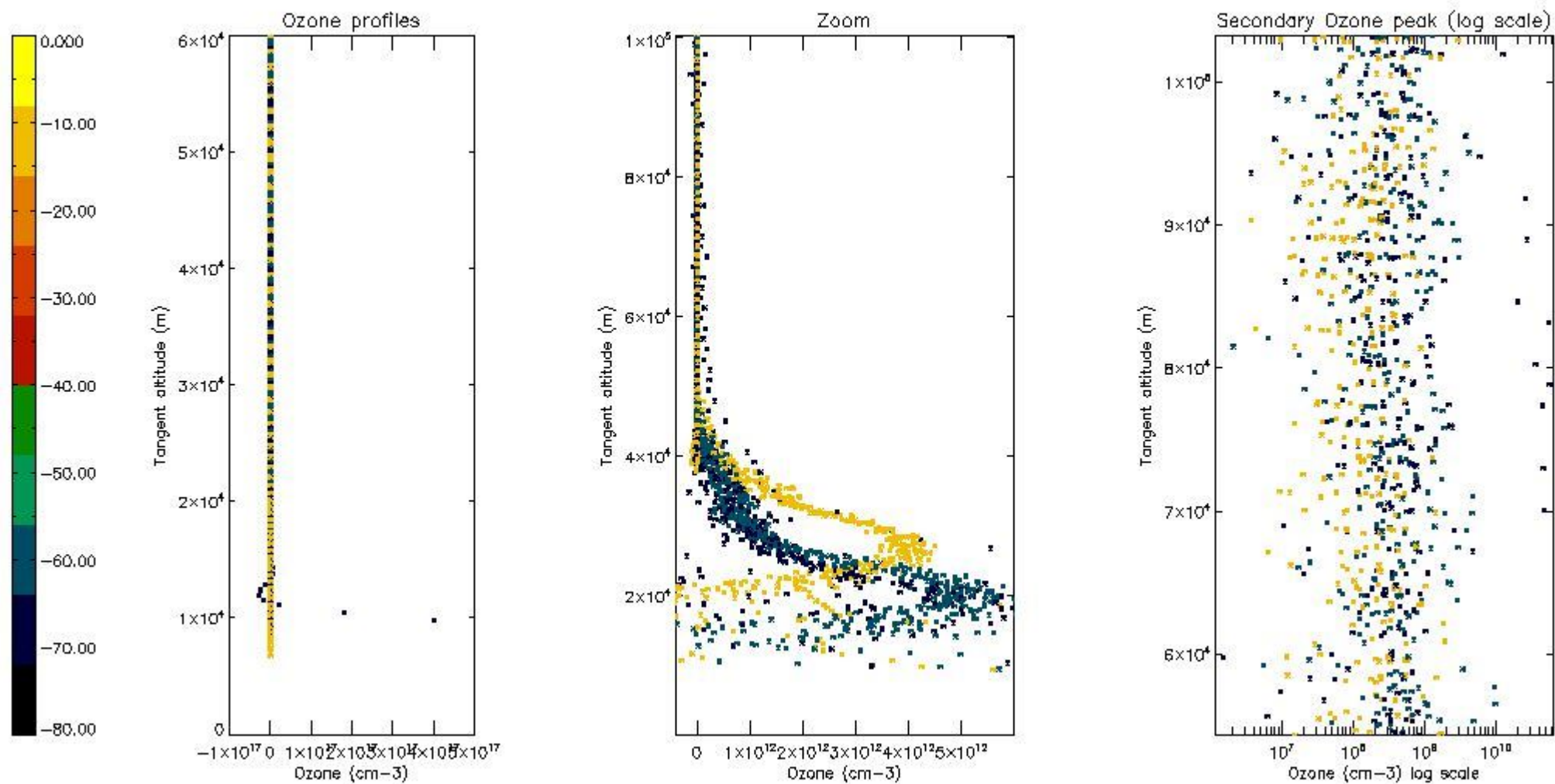
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	16
STD < 20	4

STD < 10	2
STD < 5	0

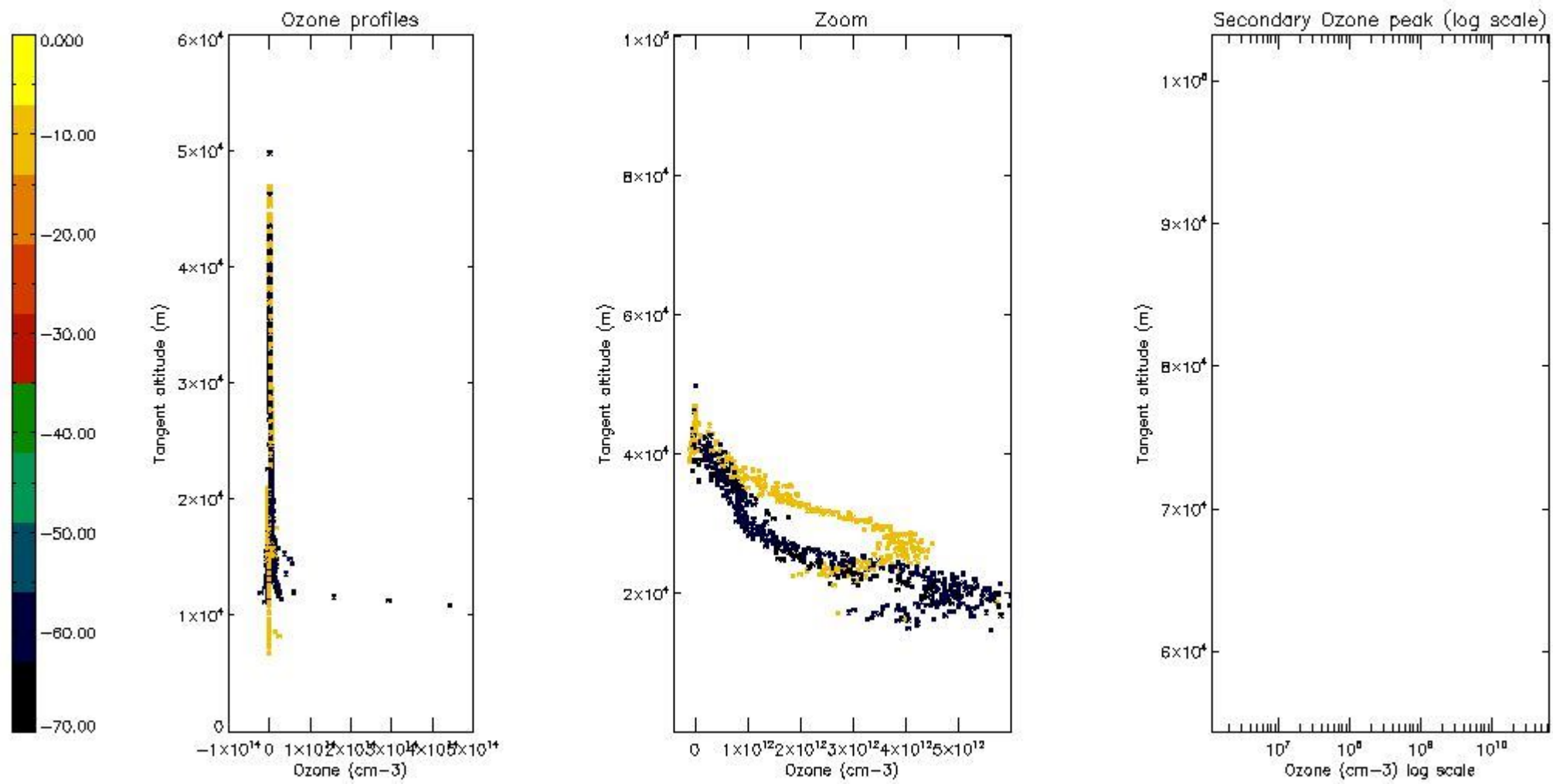
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



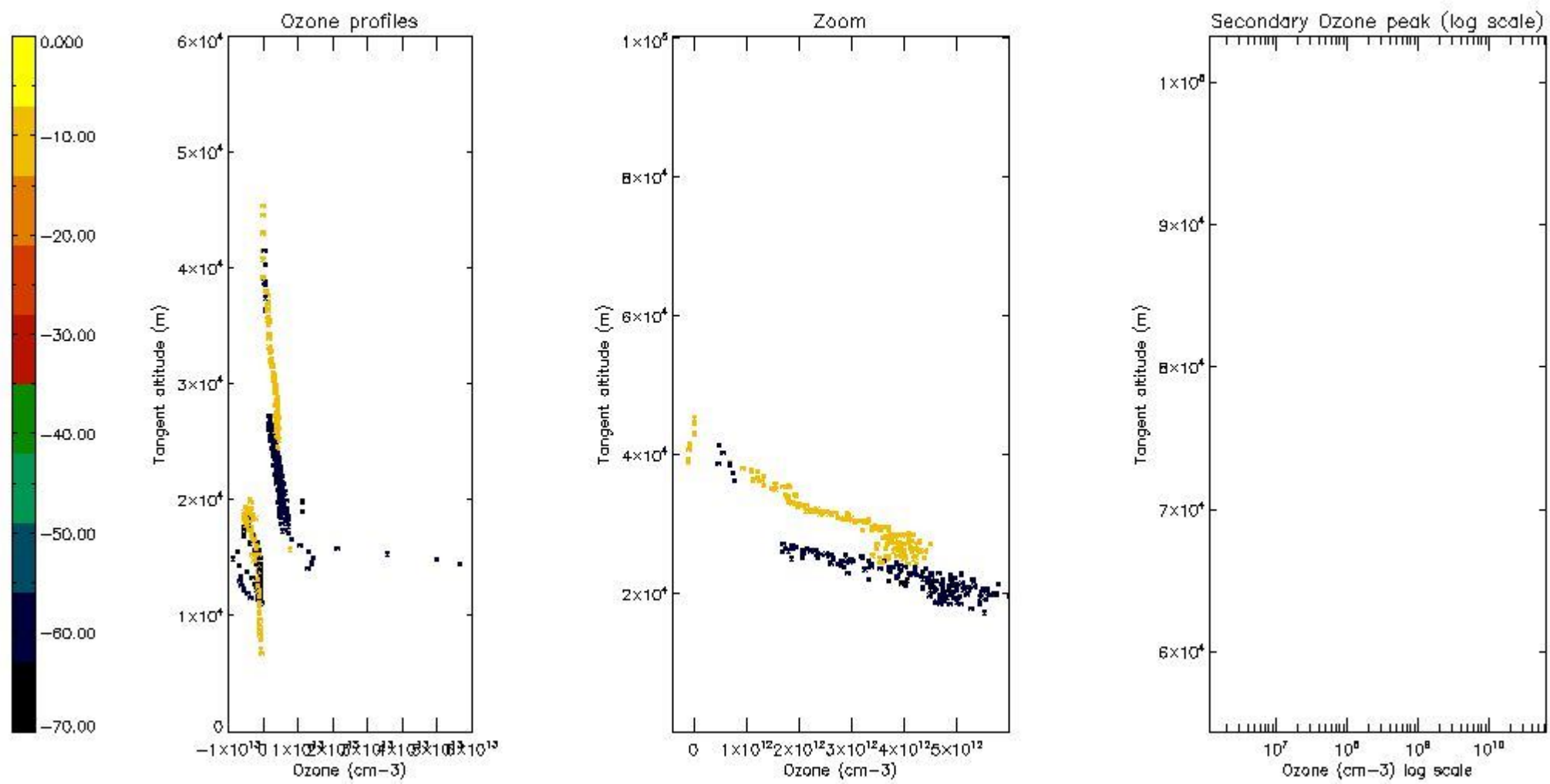
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



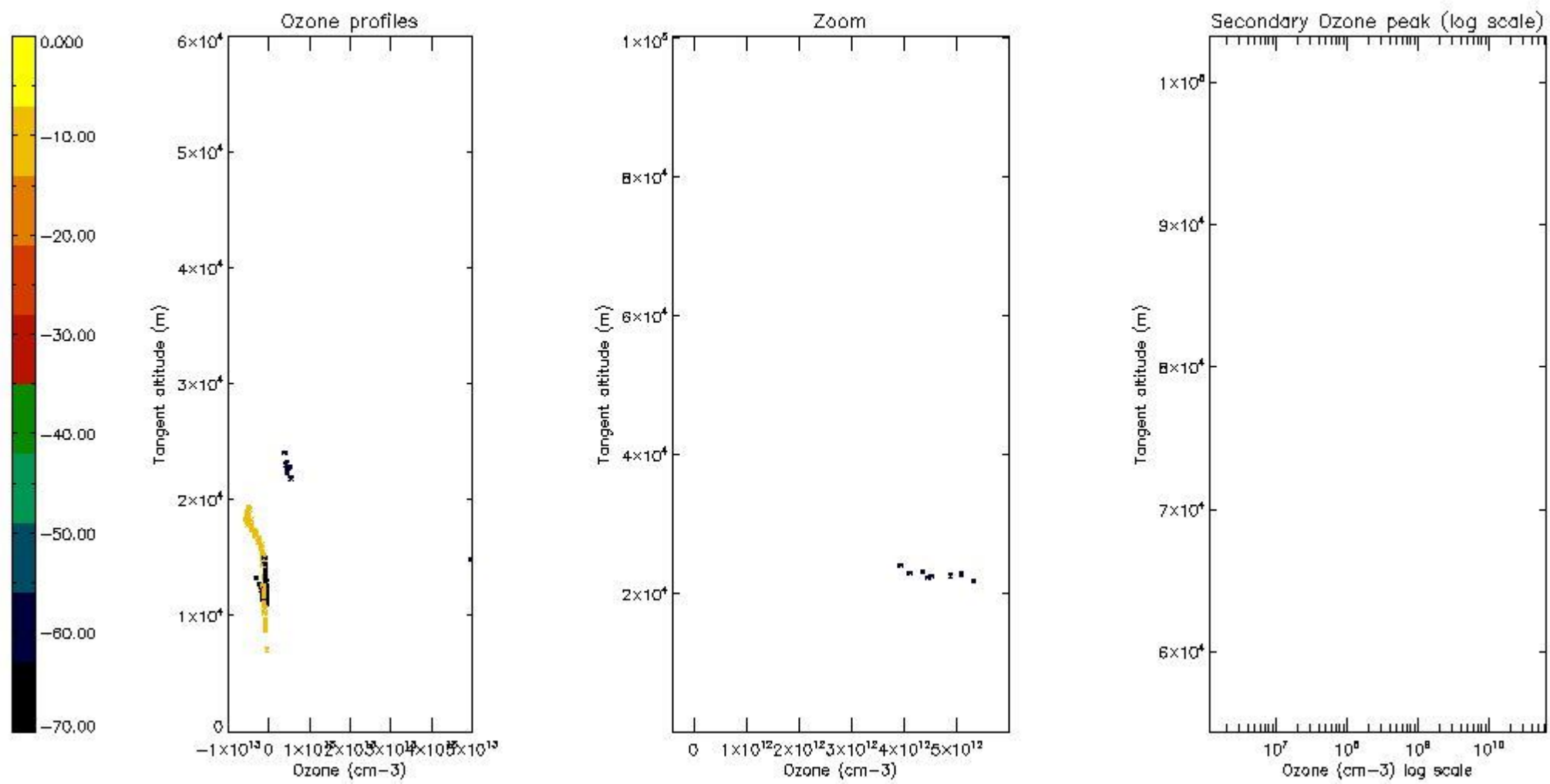
5.4 Plot ozone profiles where  $STD < 10\%$  (dark without errors)

The colorbar represents the latitude.



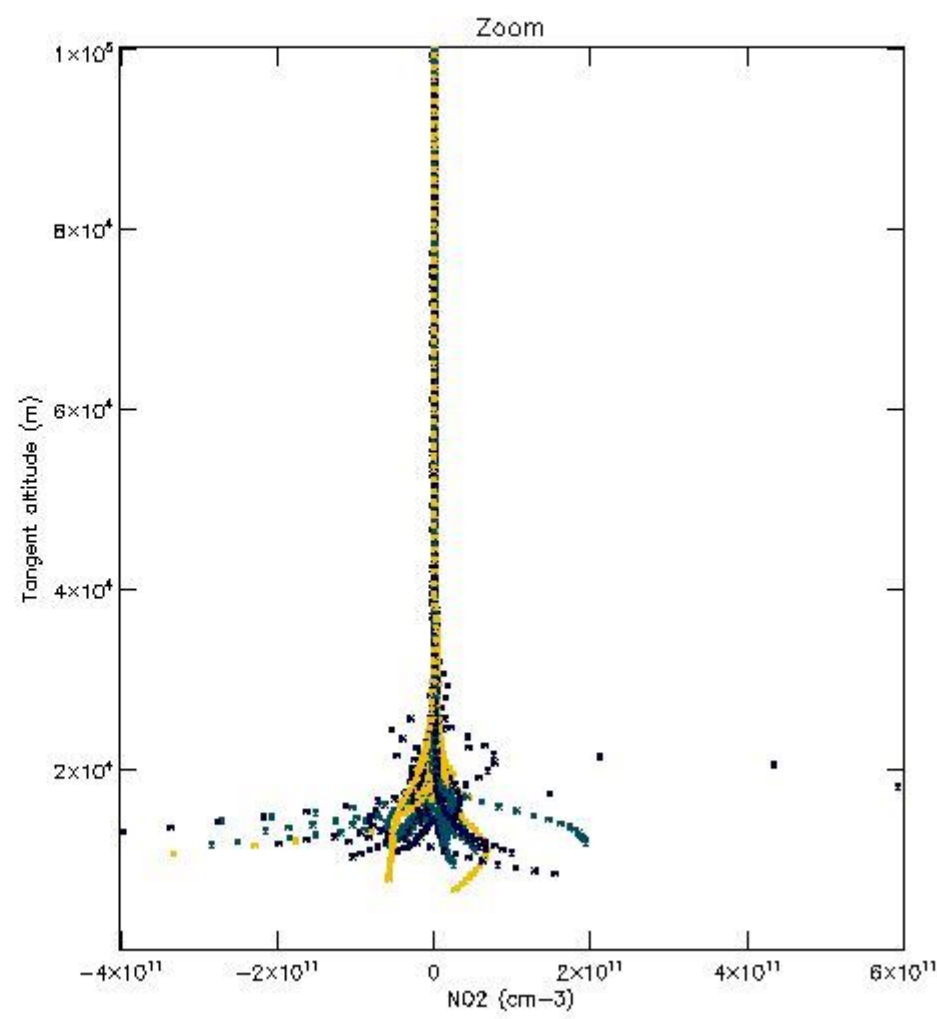
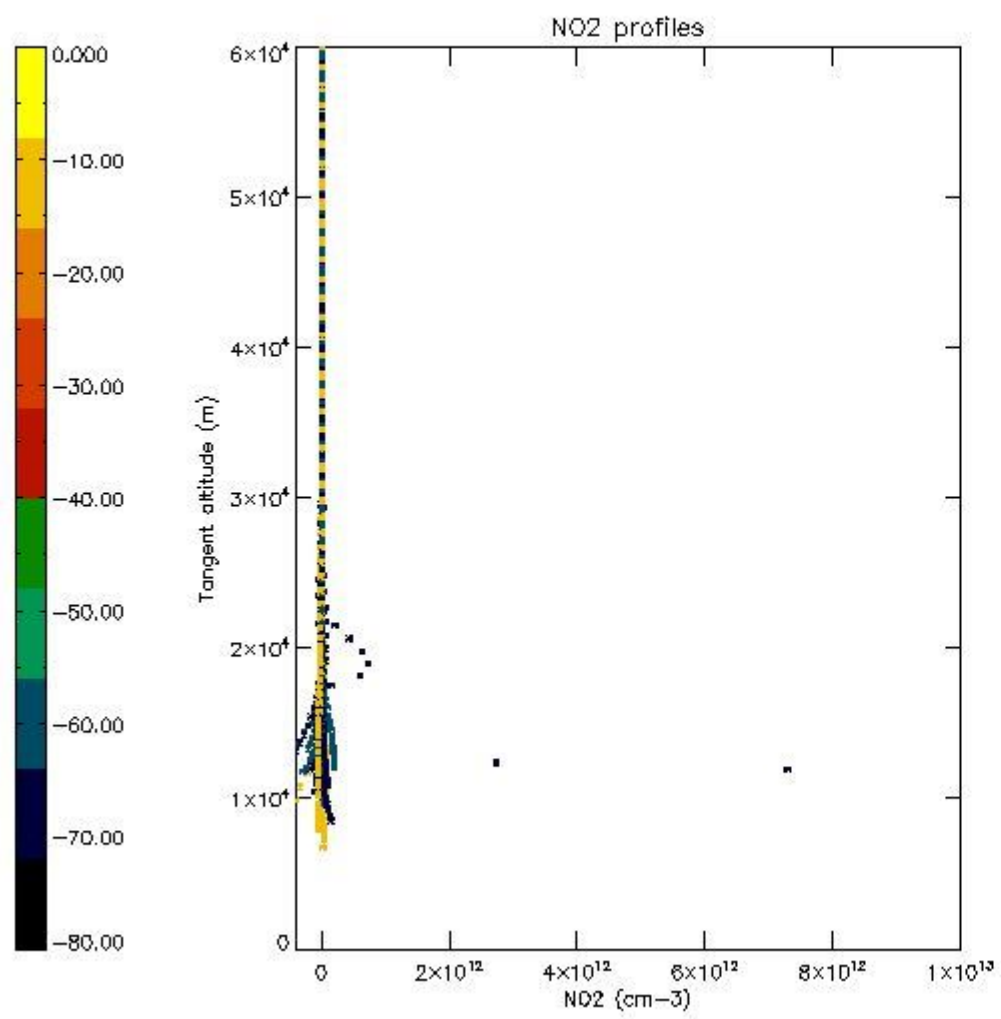
*5.5 Plot ozone profiles where  $STD < 5\%$  (dark without errors)*

The colorbar represents the latitude.



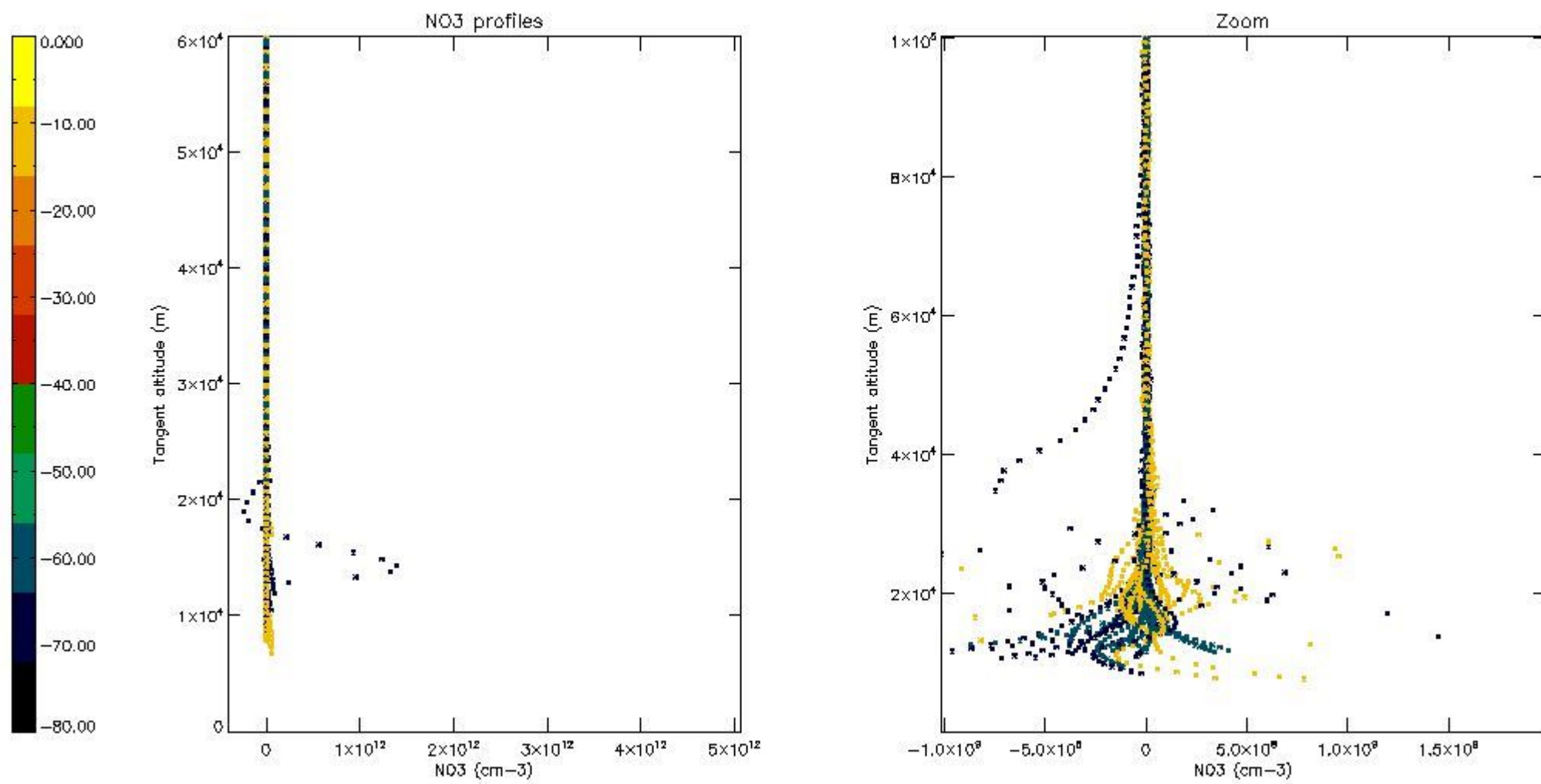
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



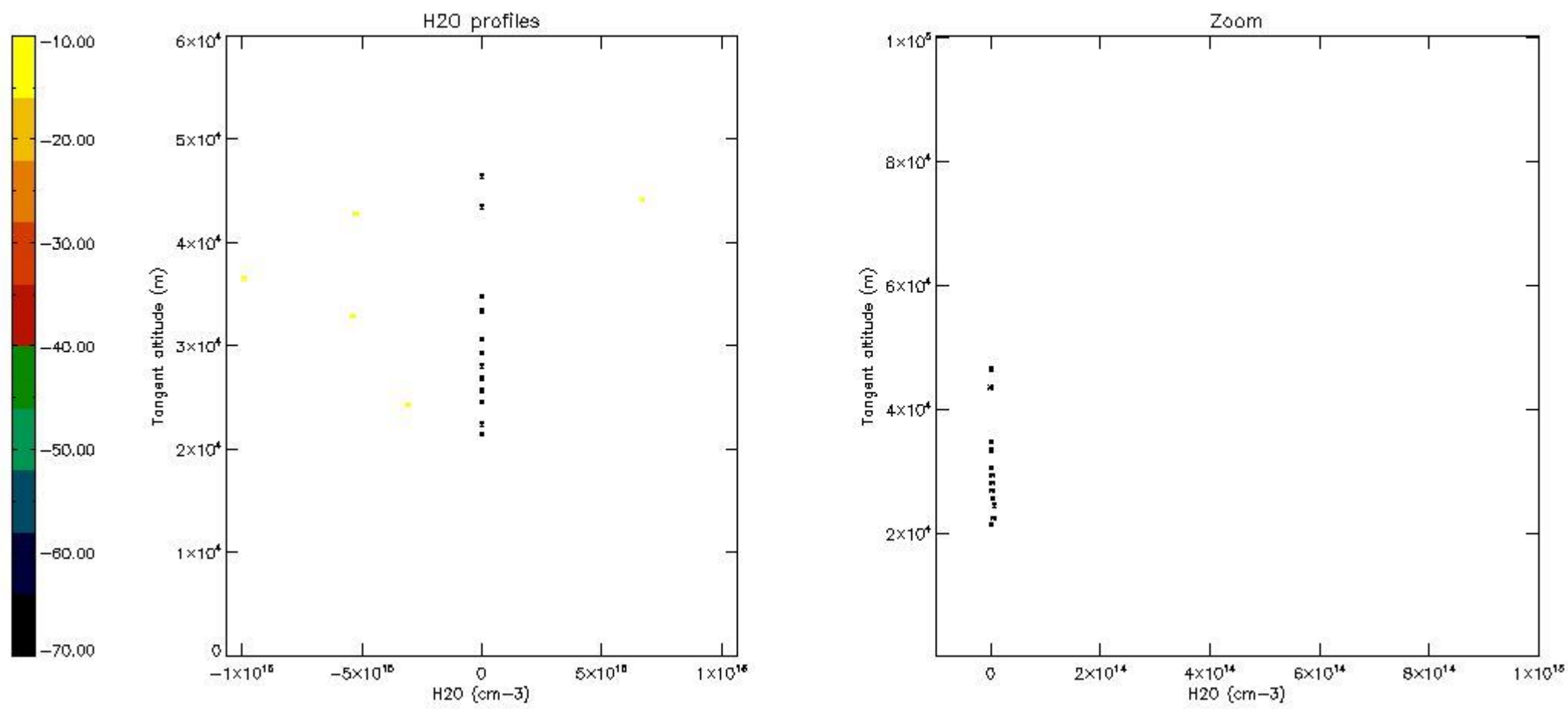
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

The colorbar represents the latitude.

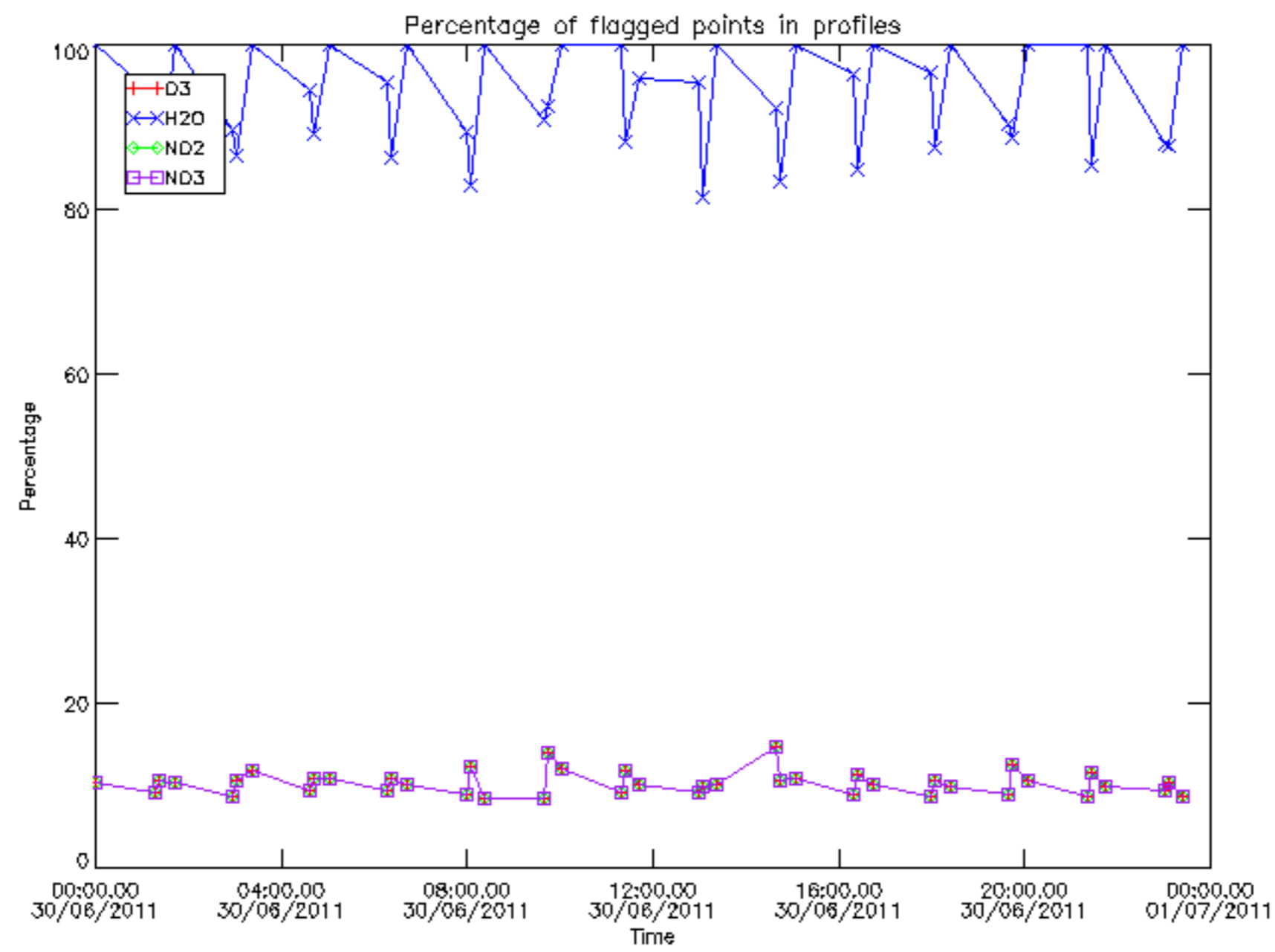


## 6. Auxiliary Data Files used for the production reported in section 2

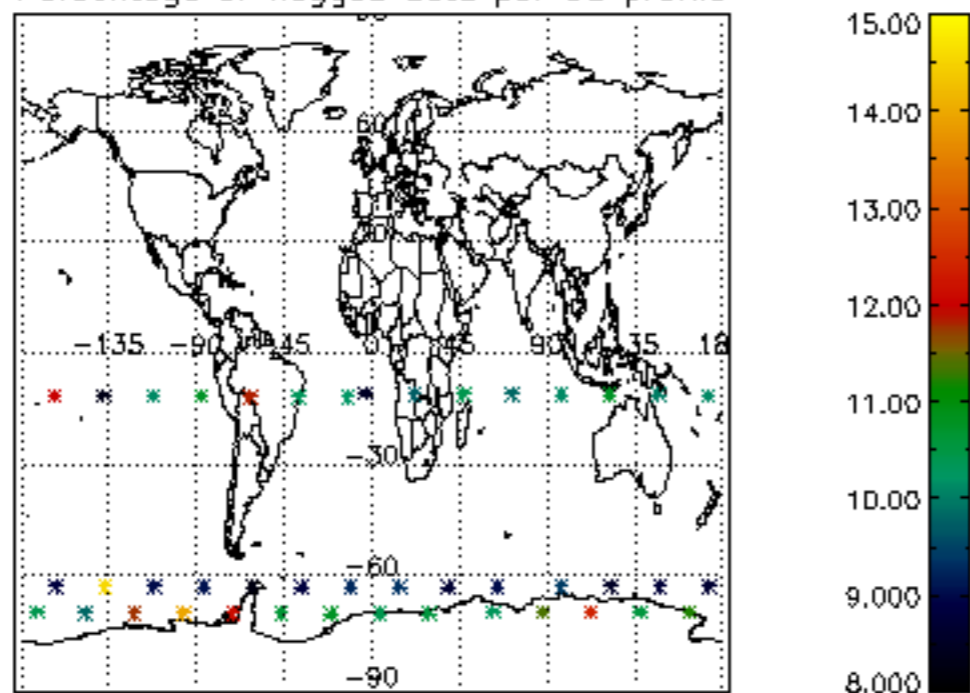
The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	30-JUN-2011 00:01:04
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	30-JUN-2011 00:01:04
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	30-JUN-2011 00:01:04

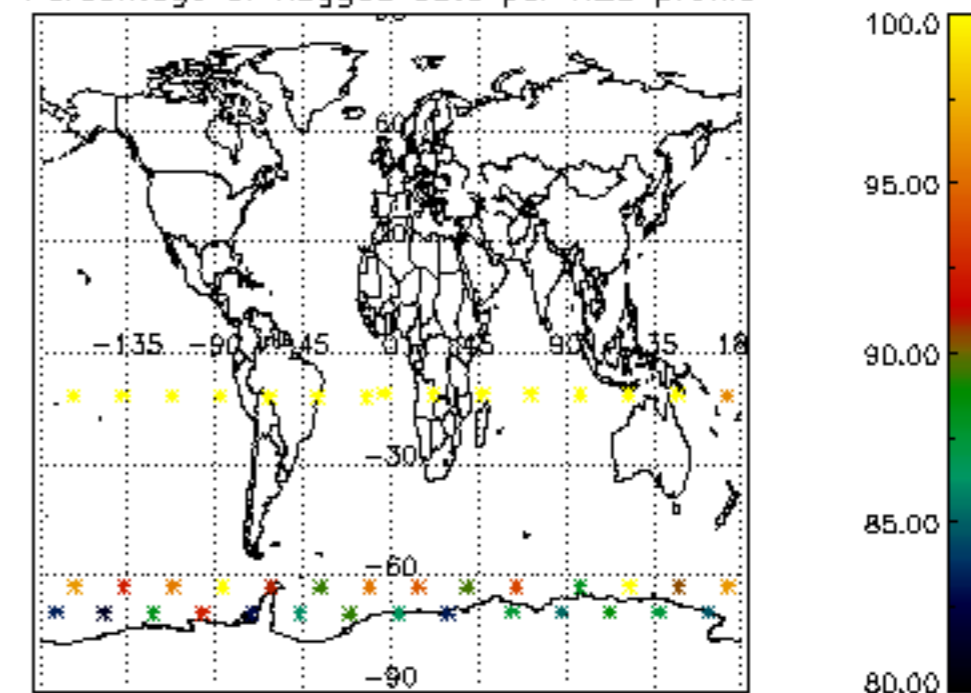




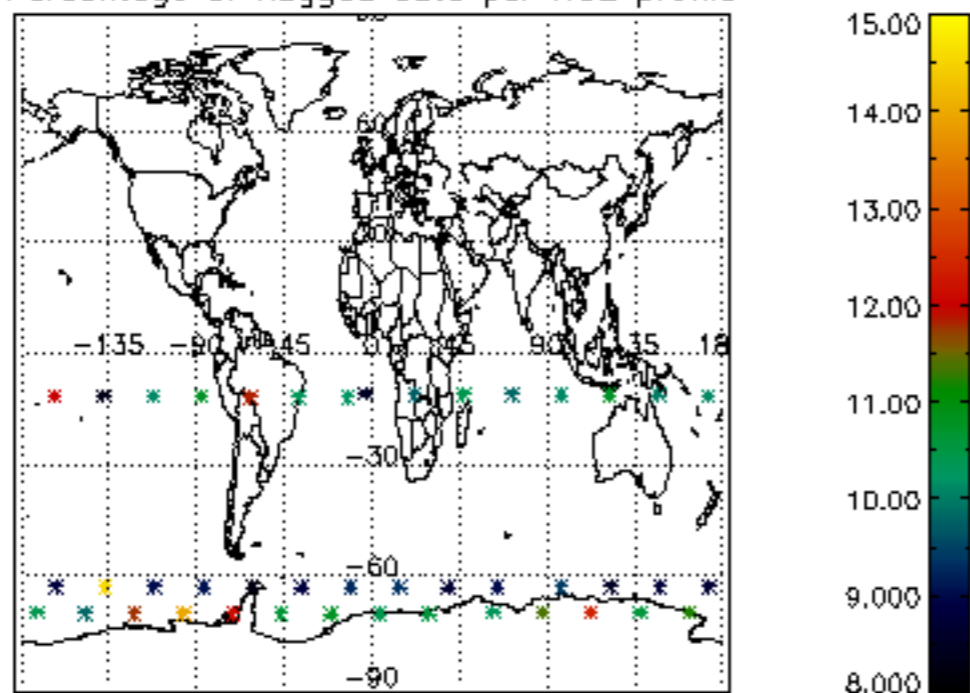
Percentage of flagged data per D3 profile



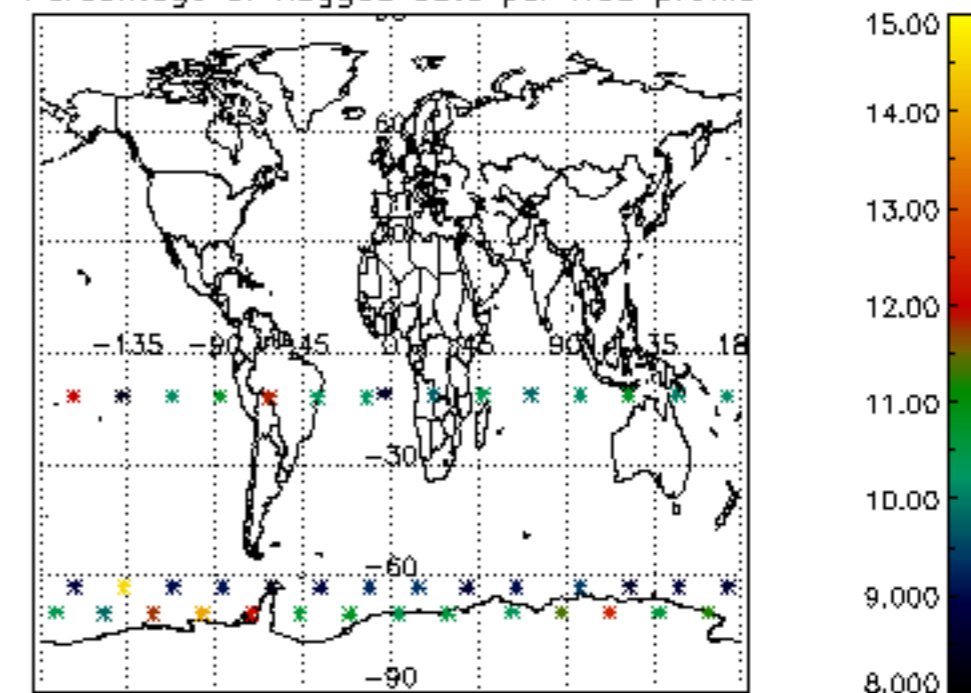
Percentage of flagged data per H2O profile

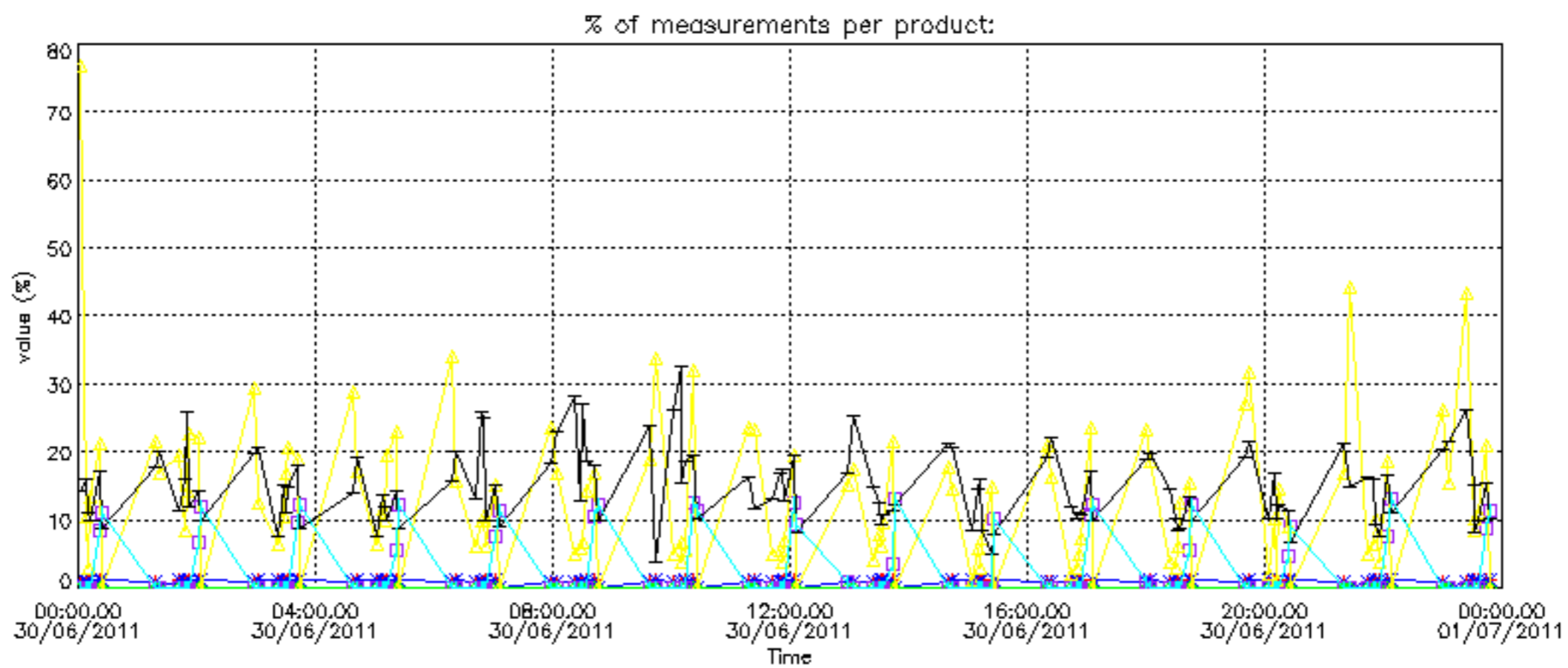


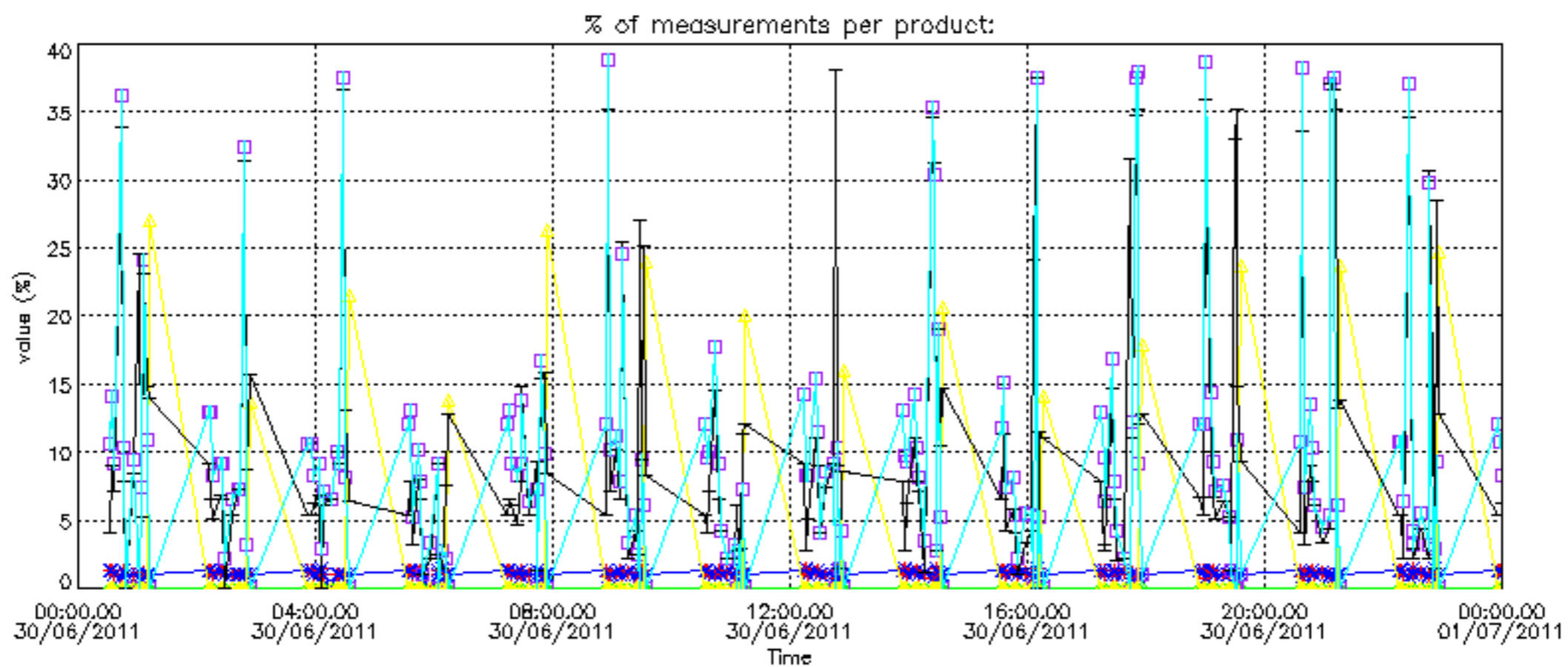
Percentage of flagged data per NO2 profile



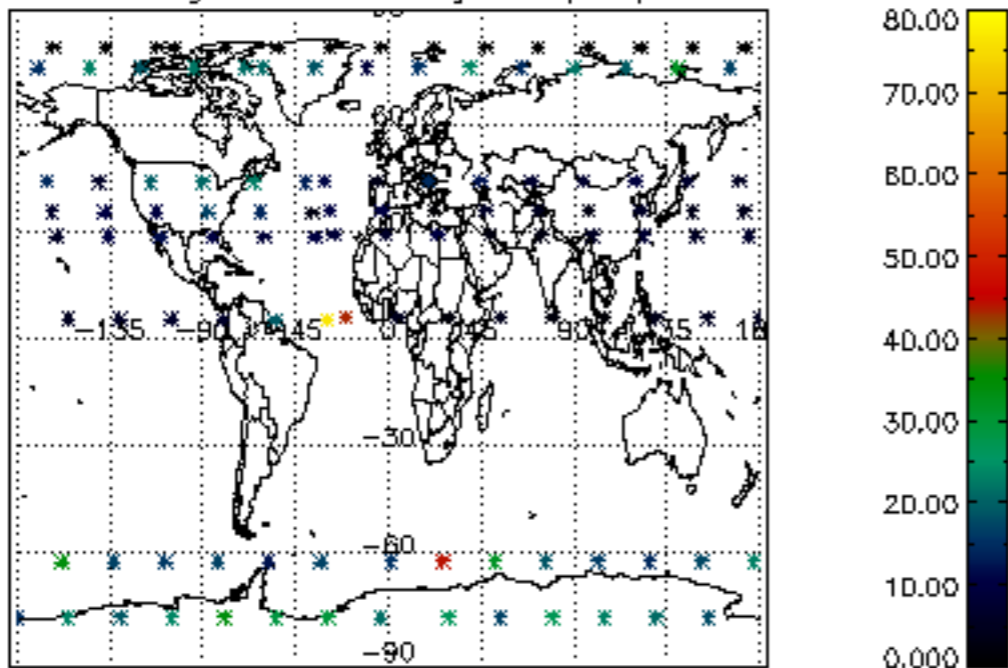
Percentage of flagged data per NO3 profile



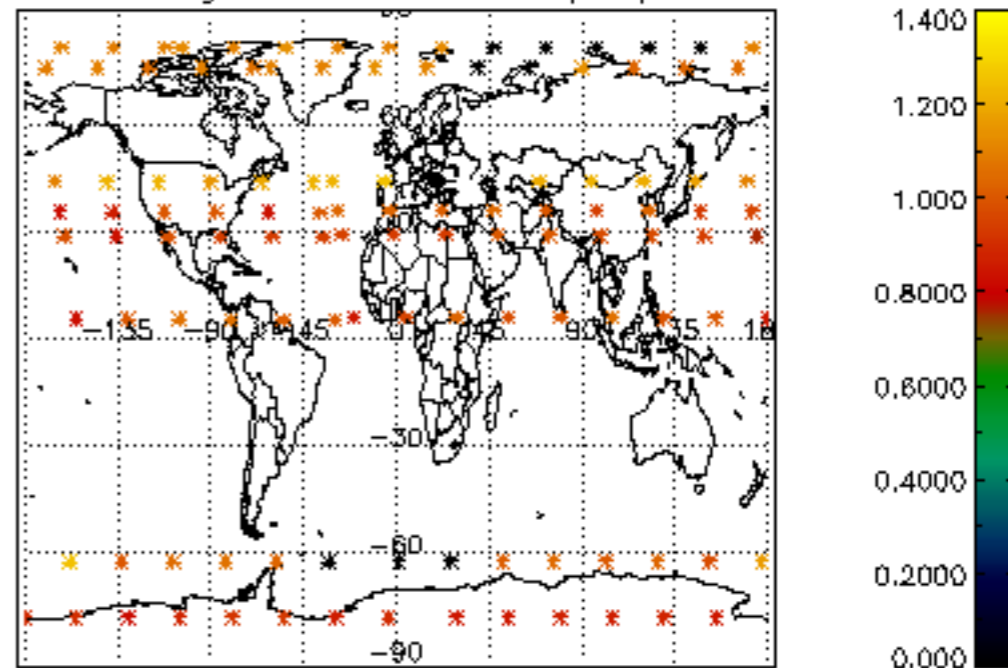




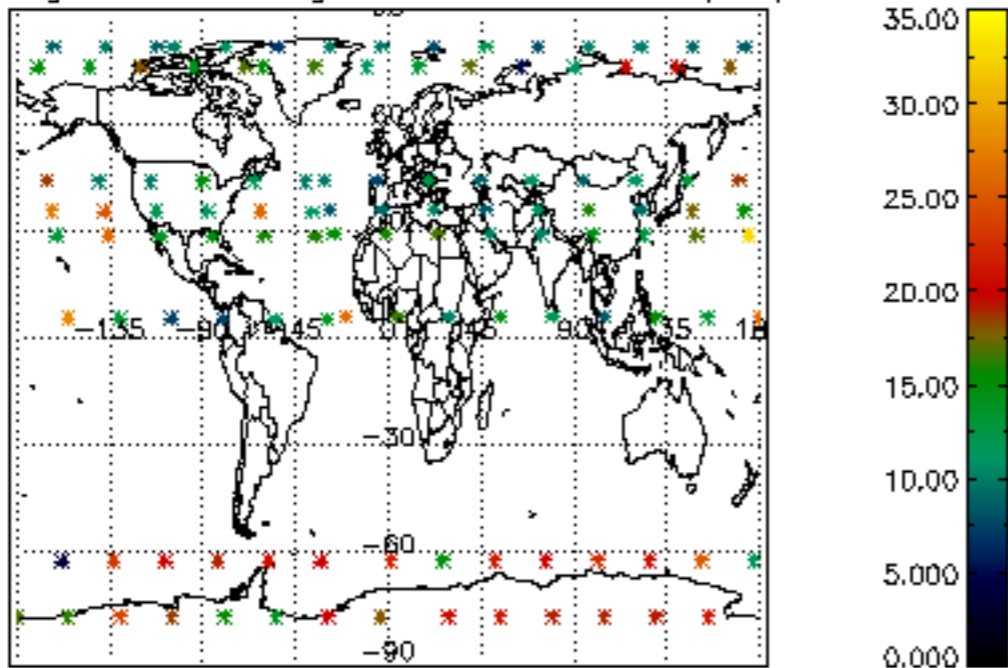
Percentage of cosmic ray hits per profile



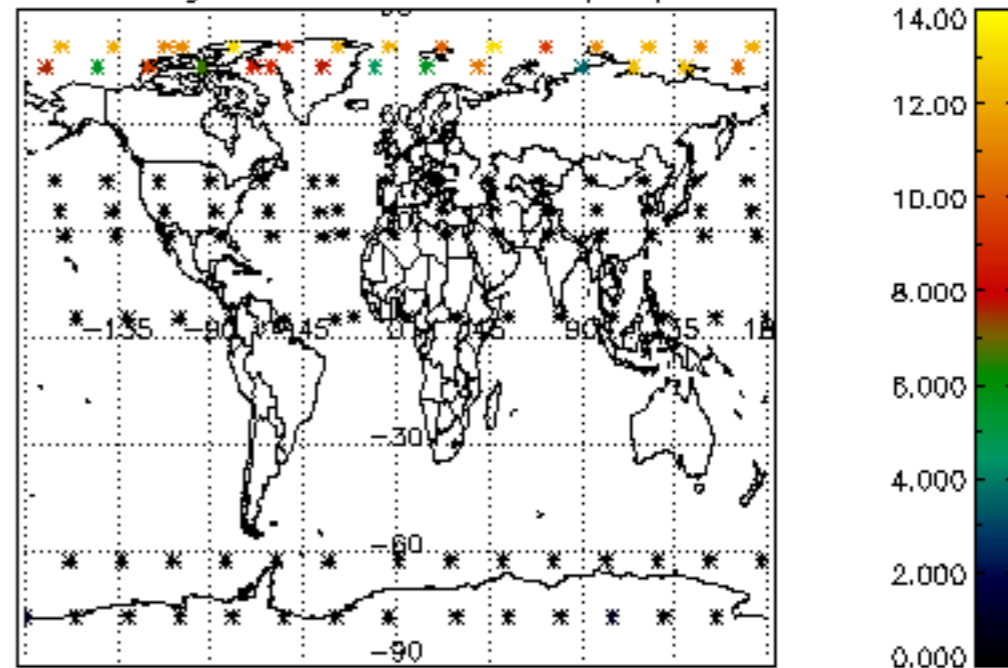
Percentage of datation errors per profile



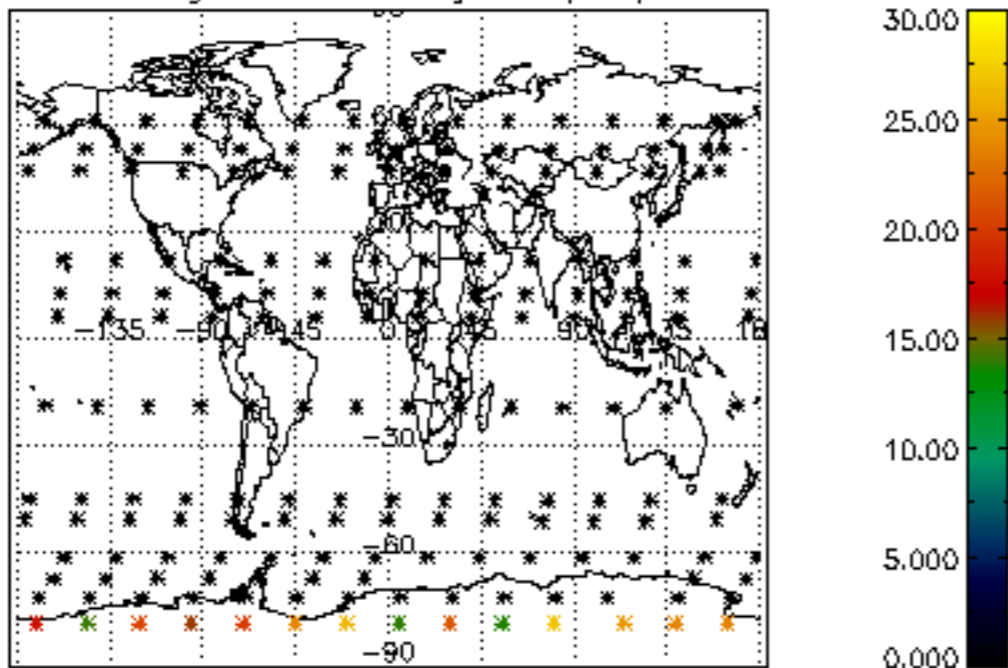
Percentage of star falling outside central band per profile



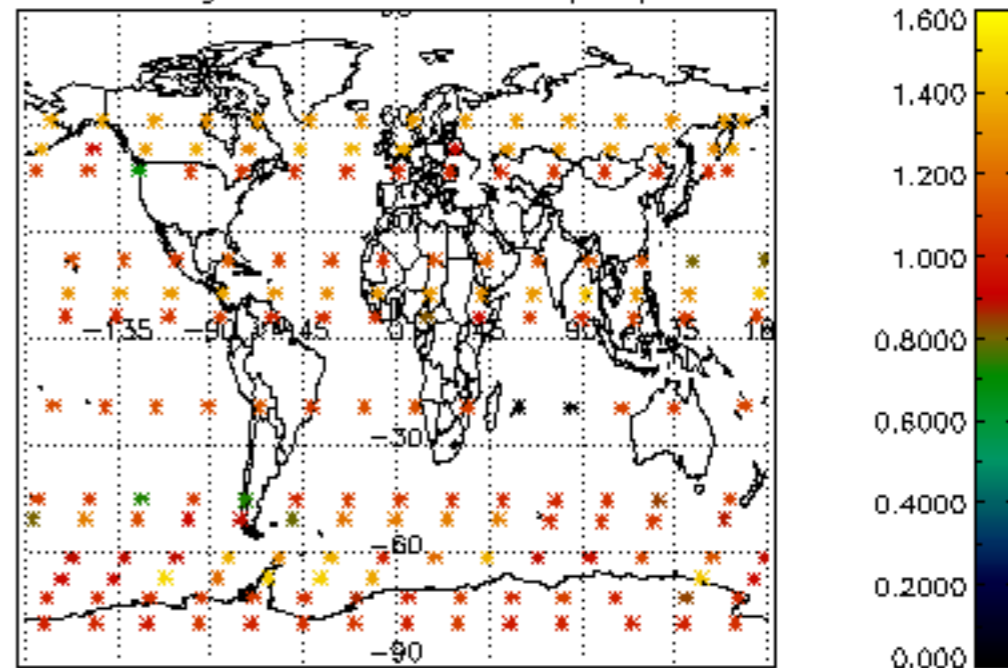
Percentage of saturation errors per profile



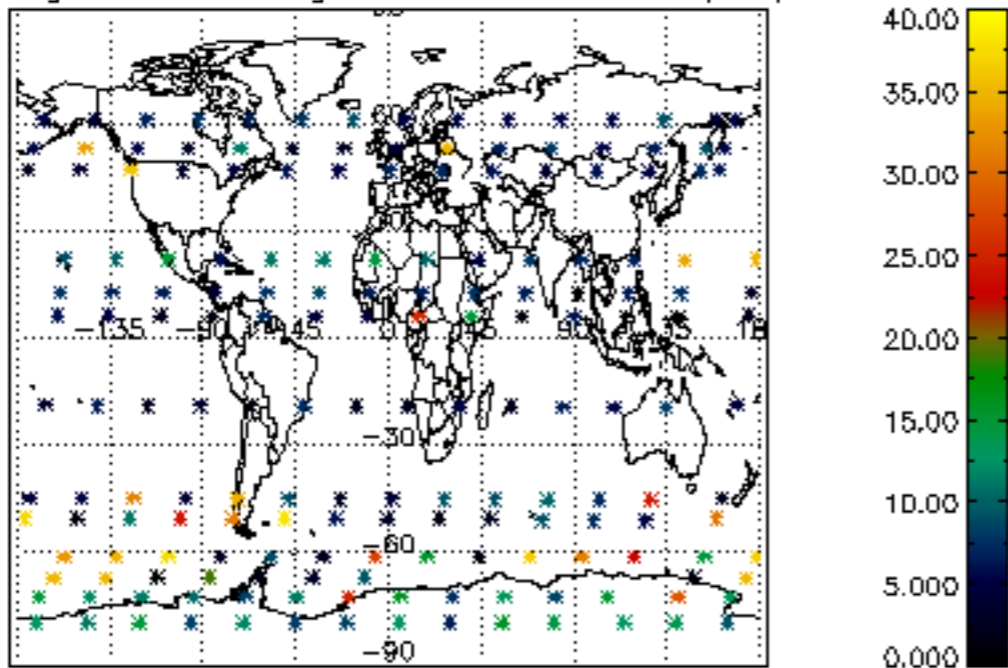
Percentage of cosmic ray hits per profile



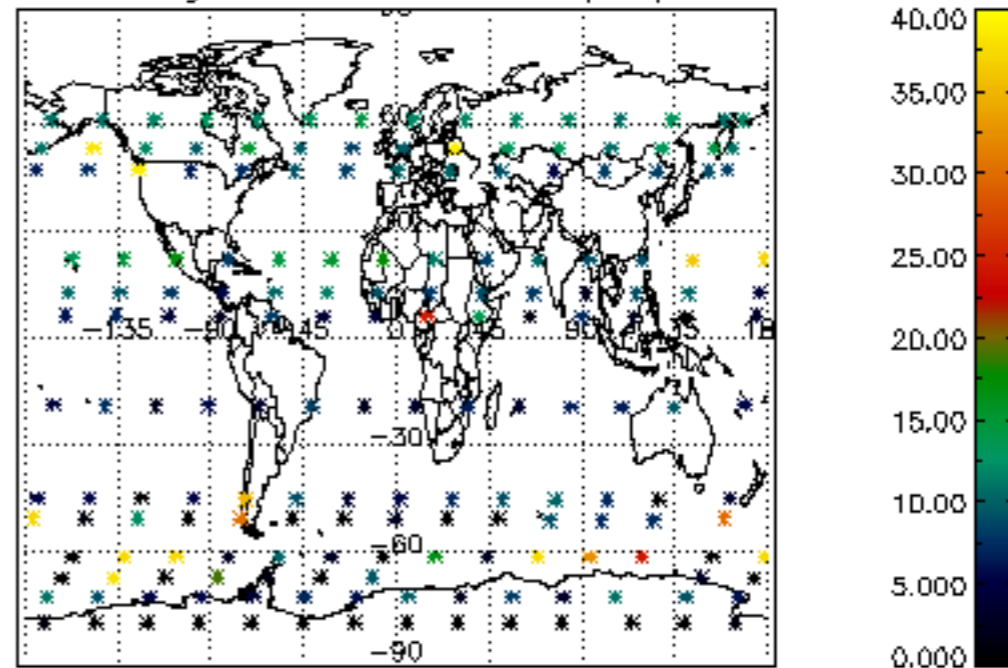
Percentage of datation errors per profile

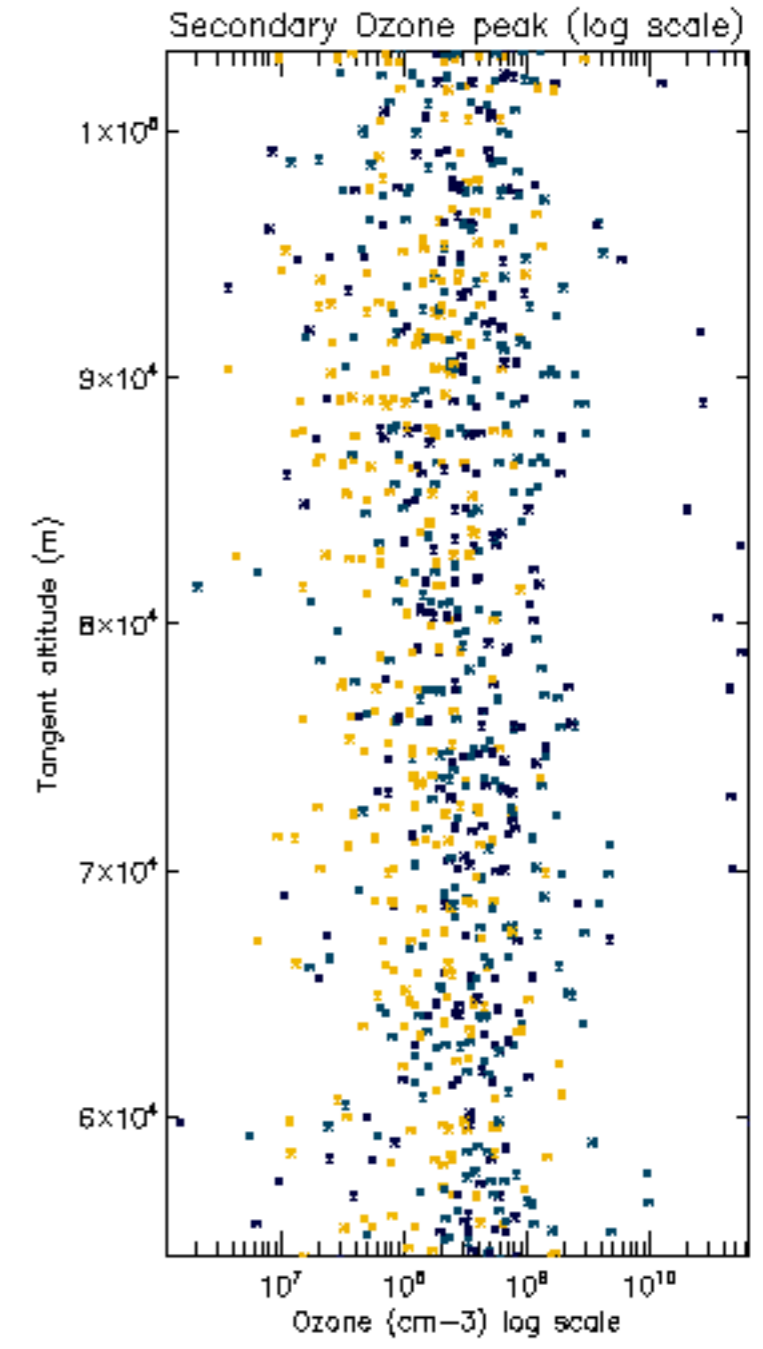
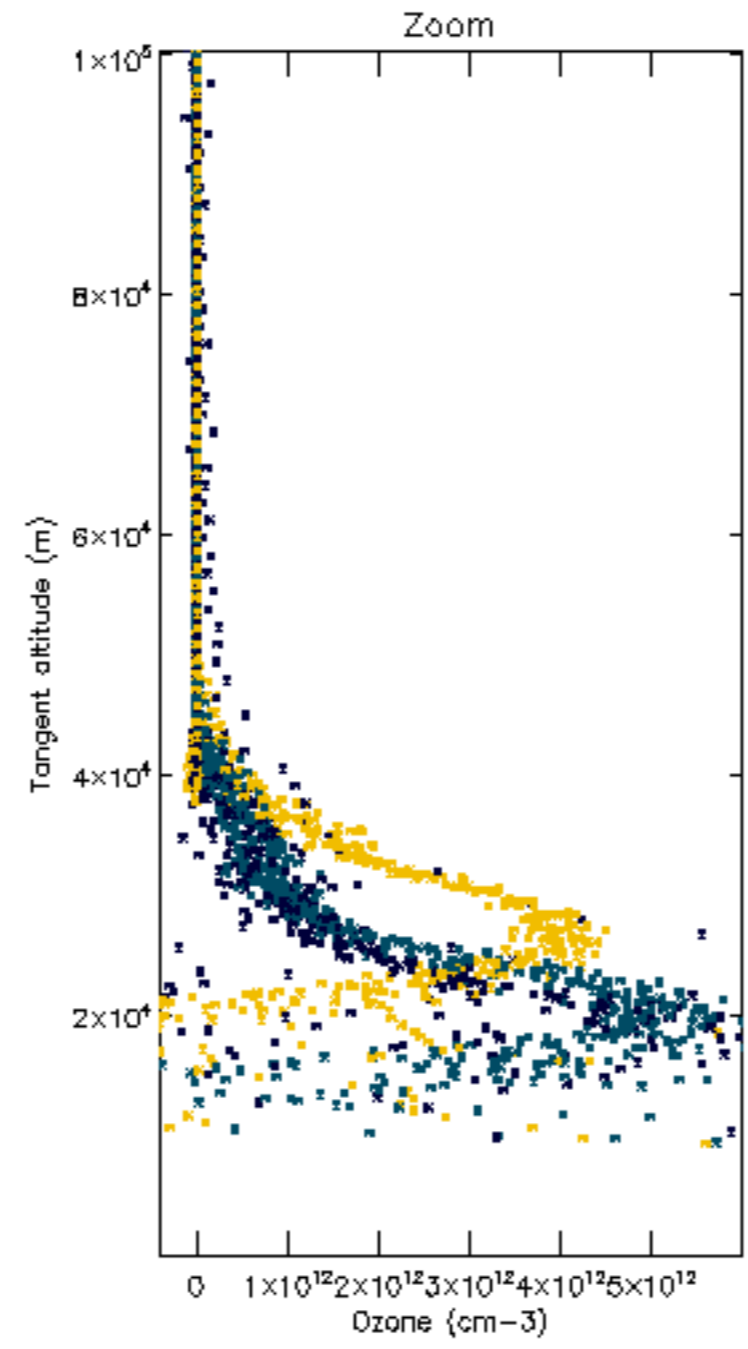
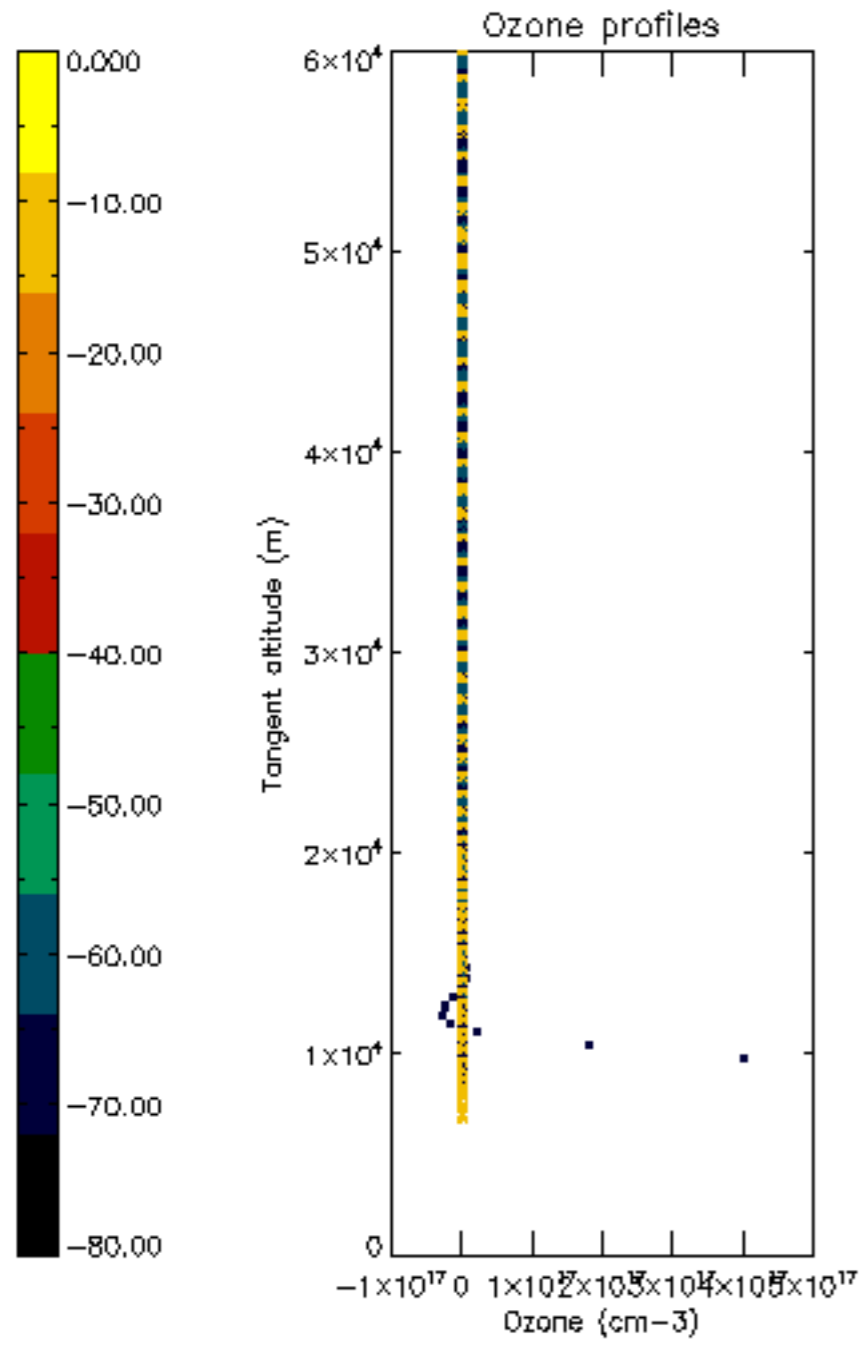


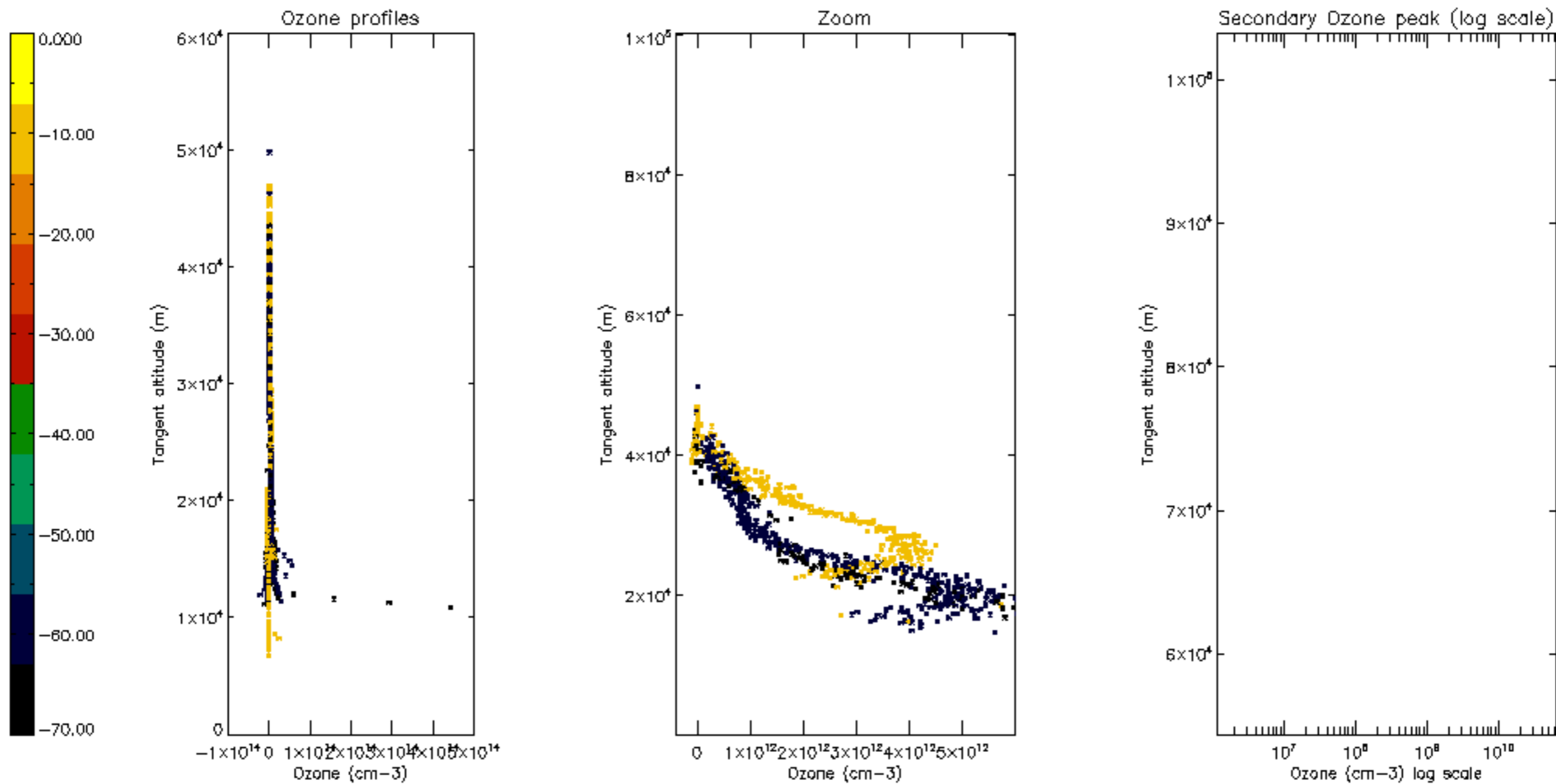
Percentage of star falling outside central band per profile



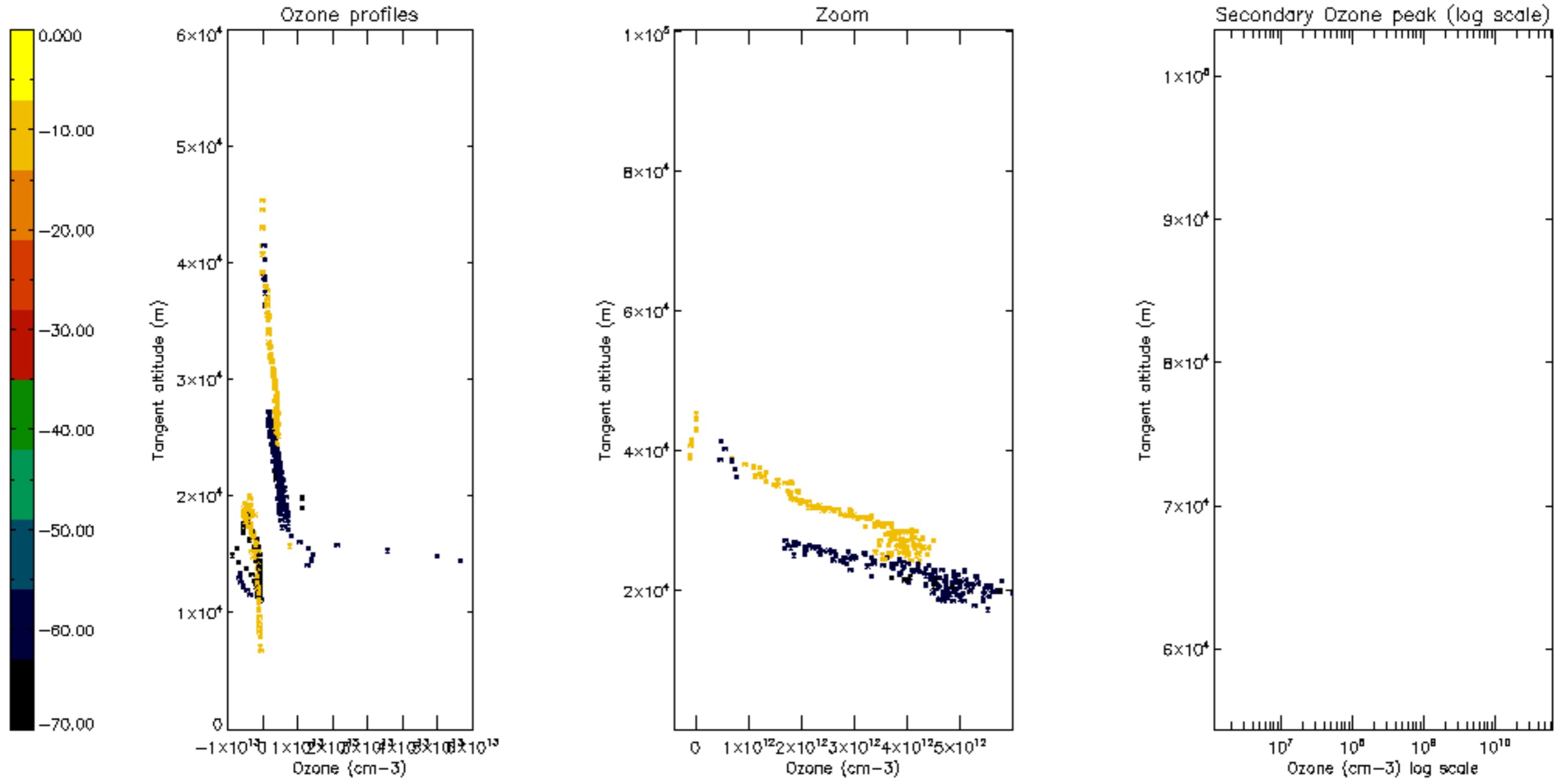
Percentage of saturation errors per profile

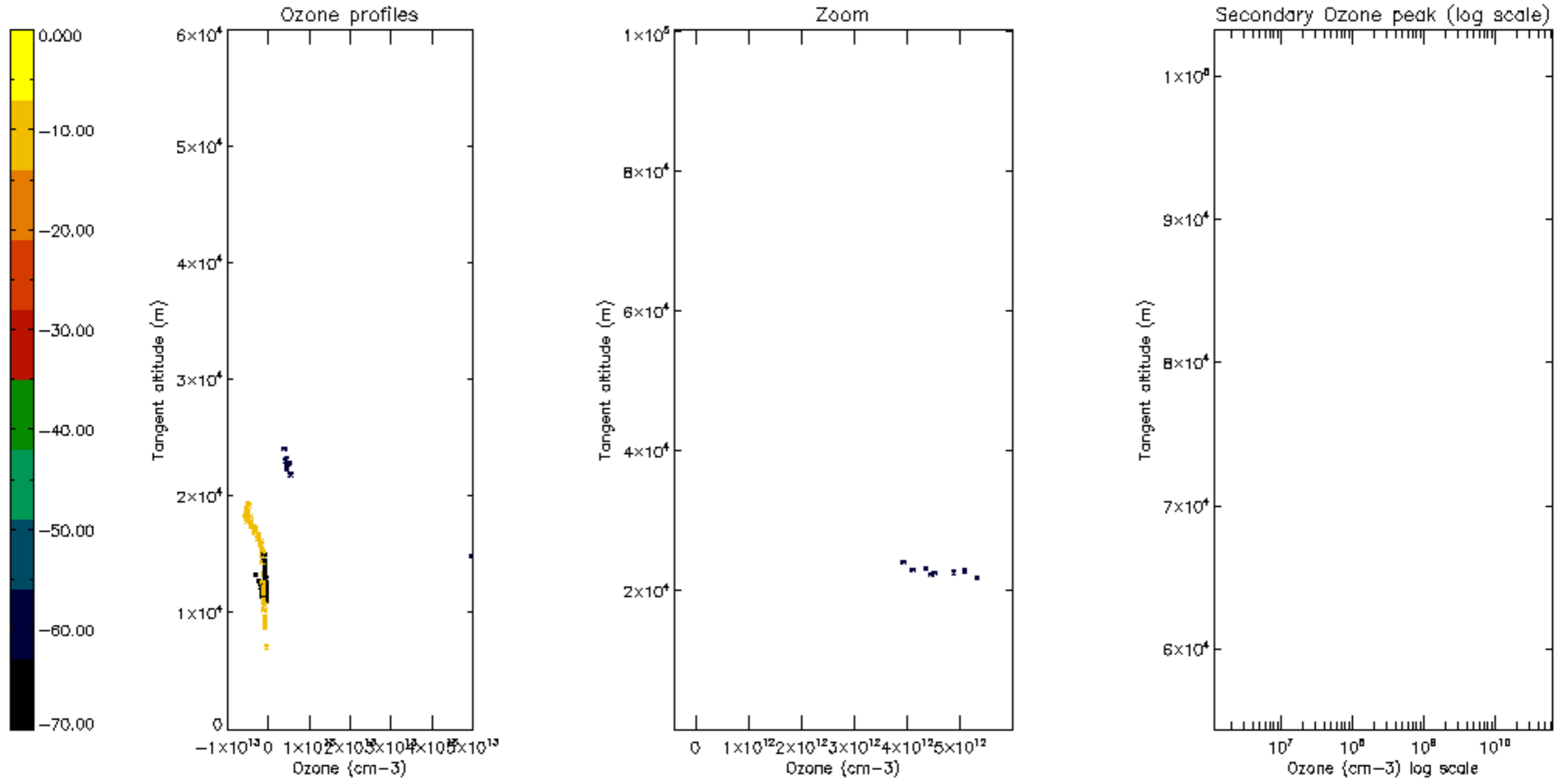


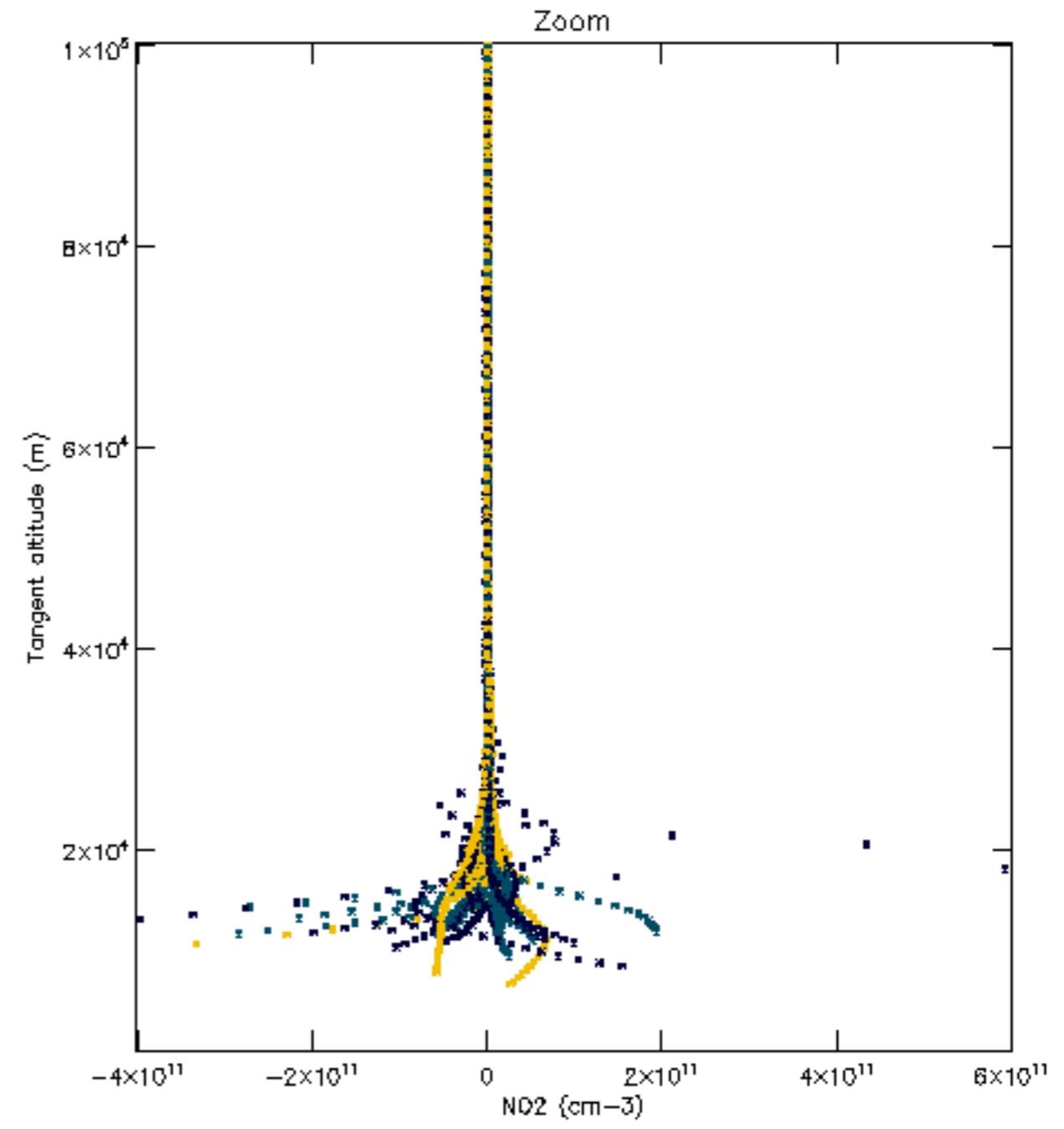
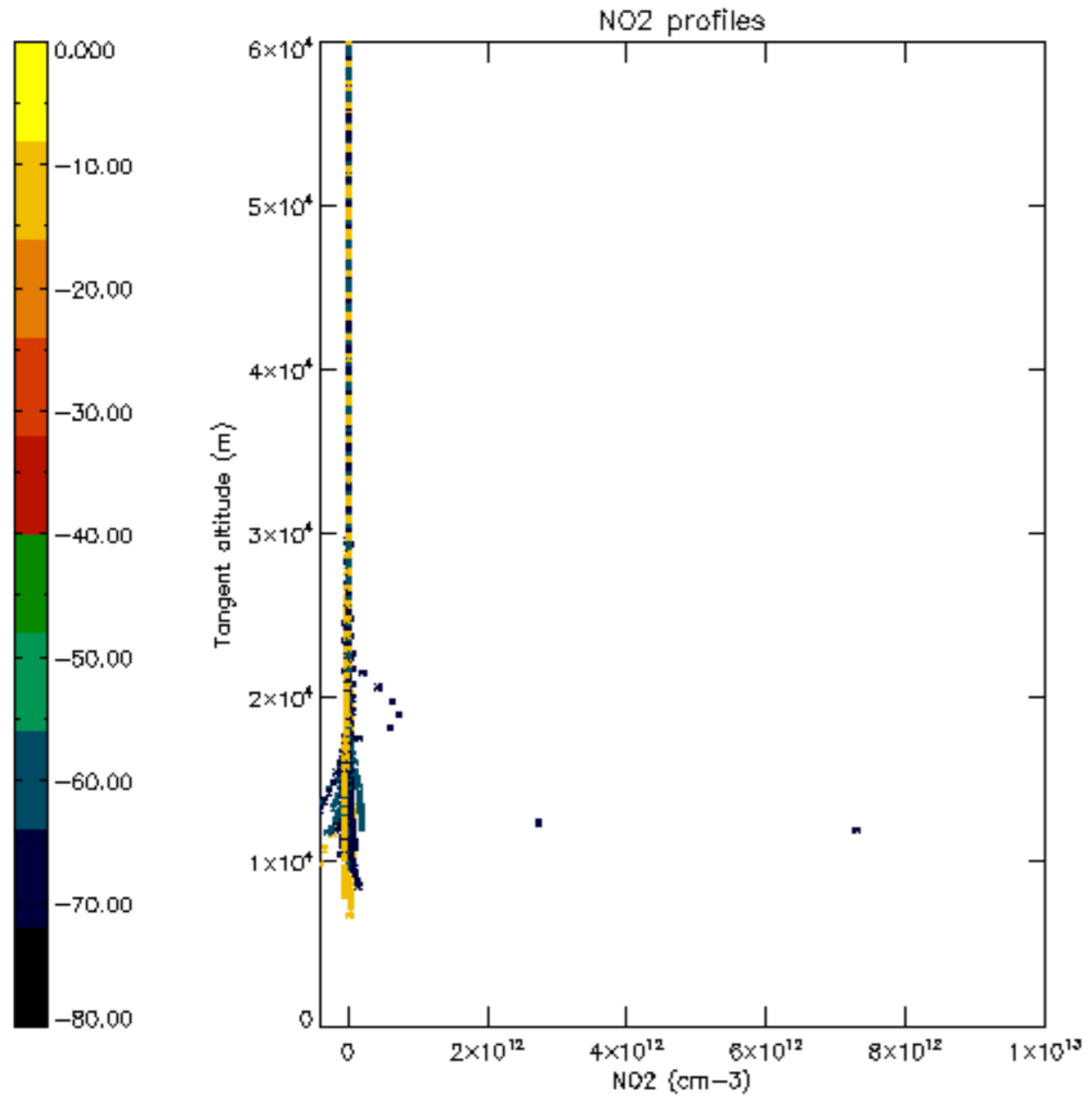


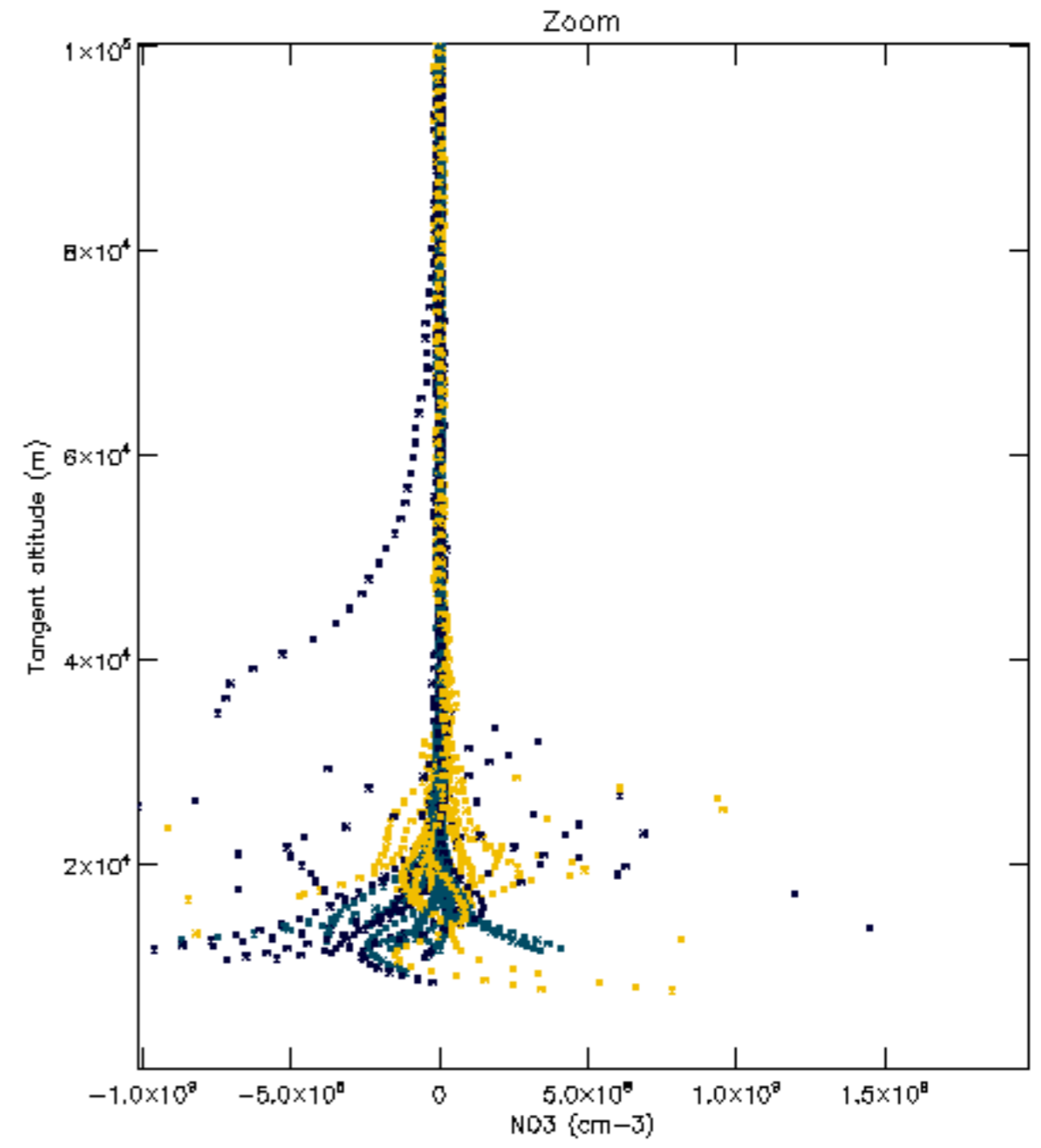
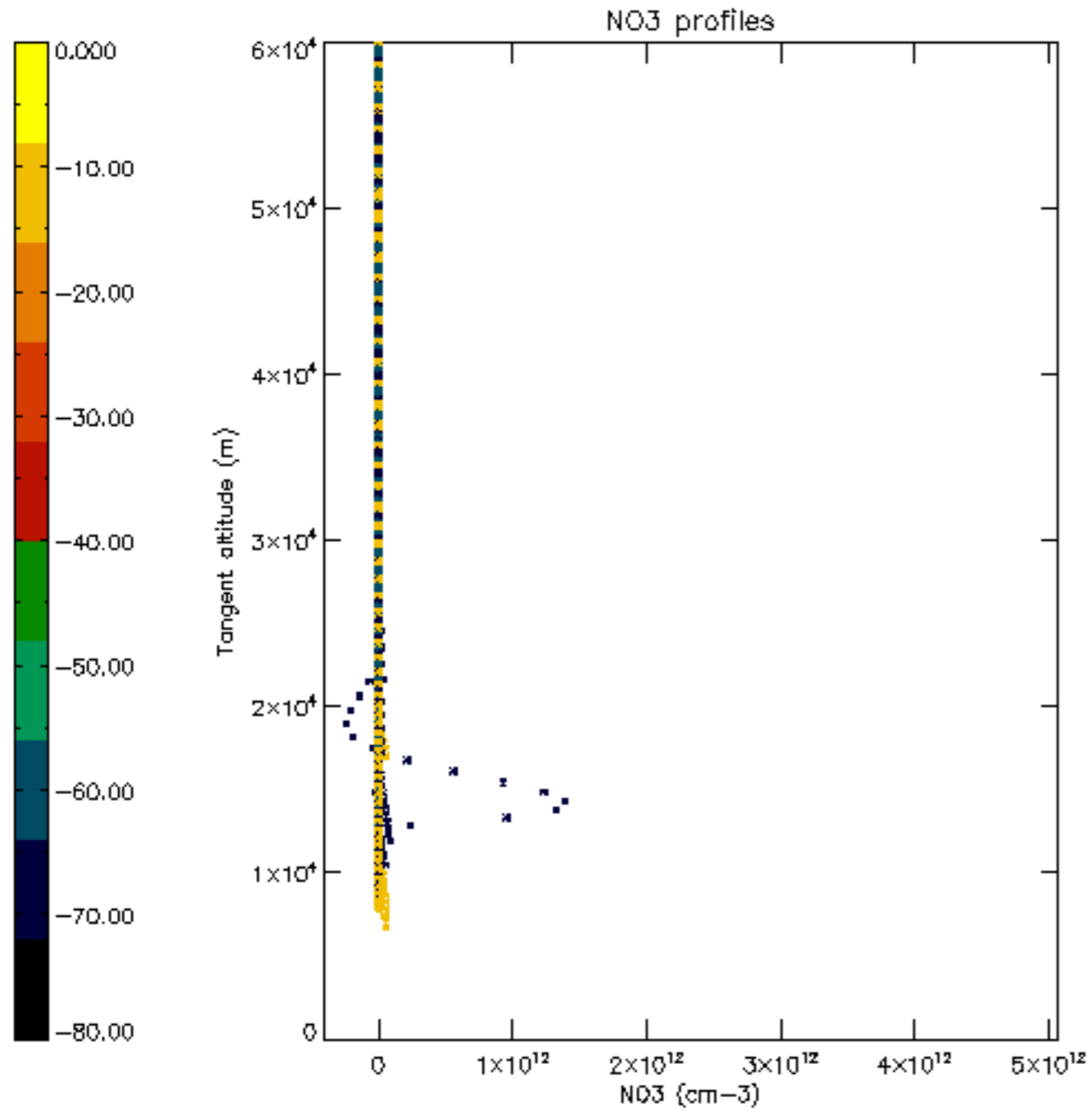


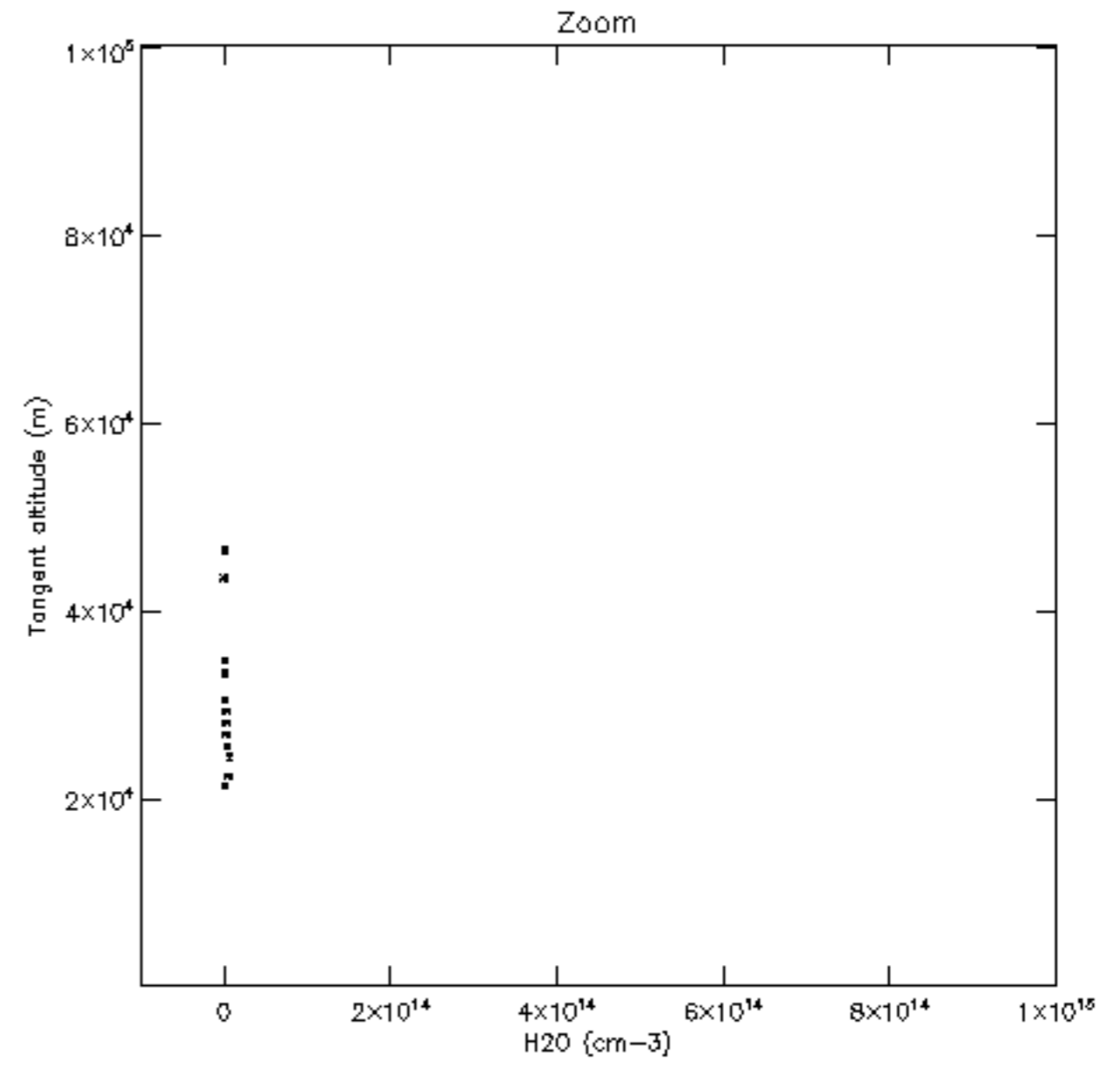
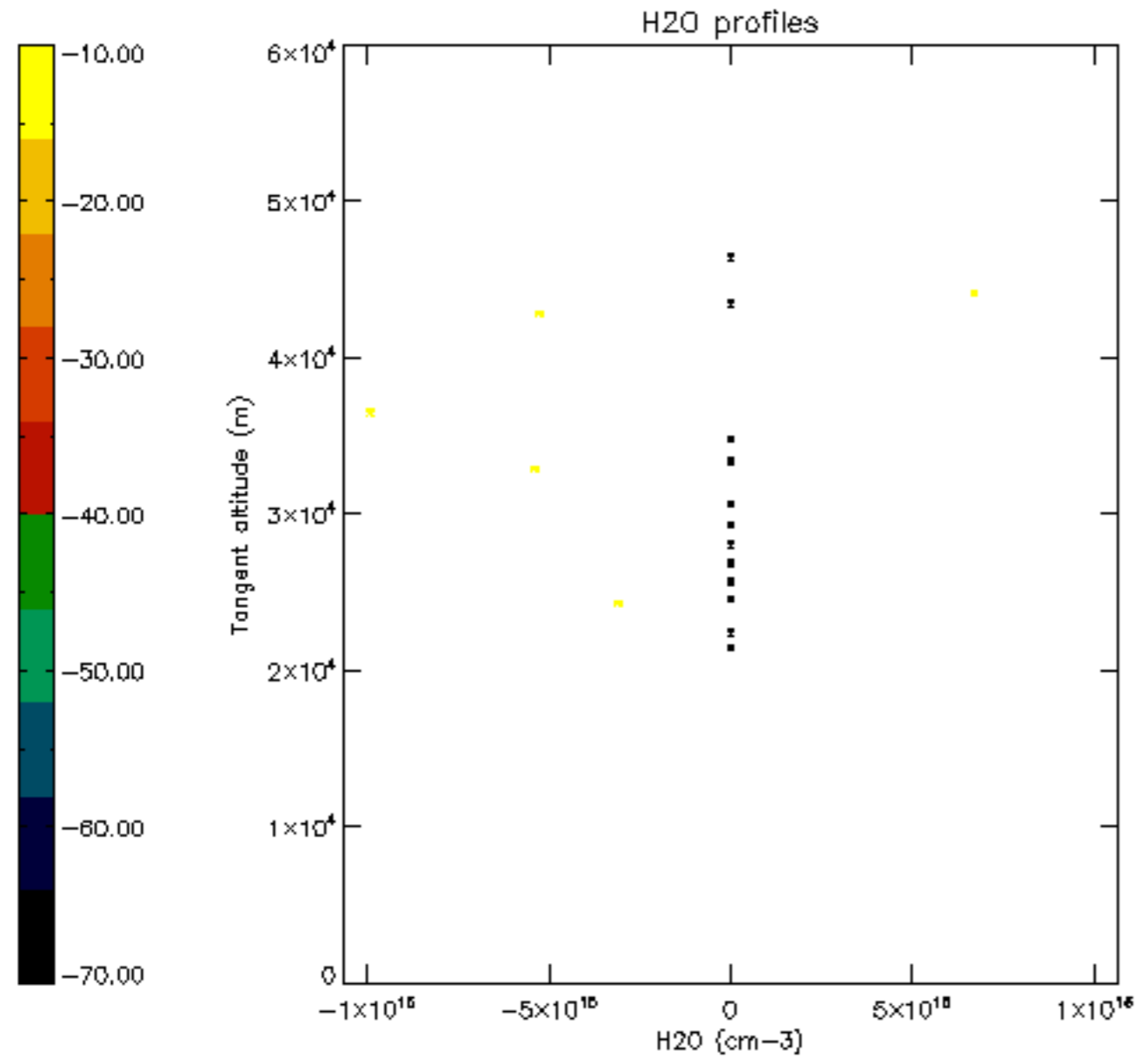


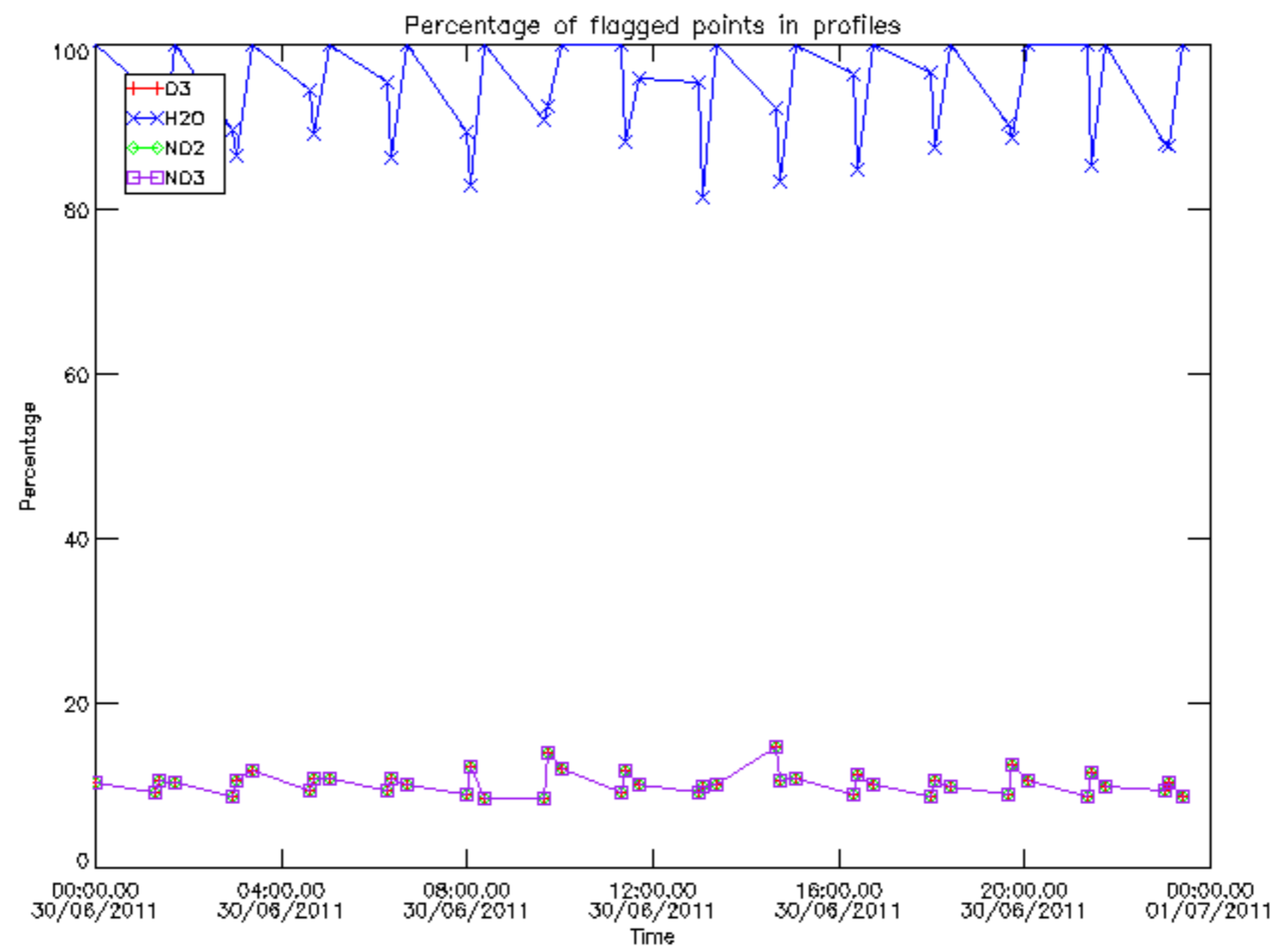




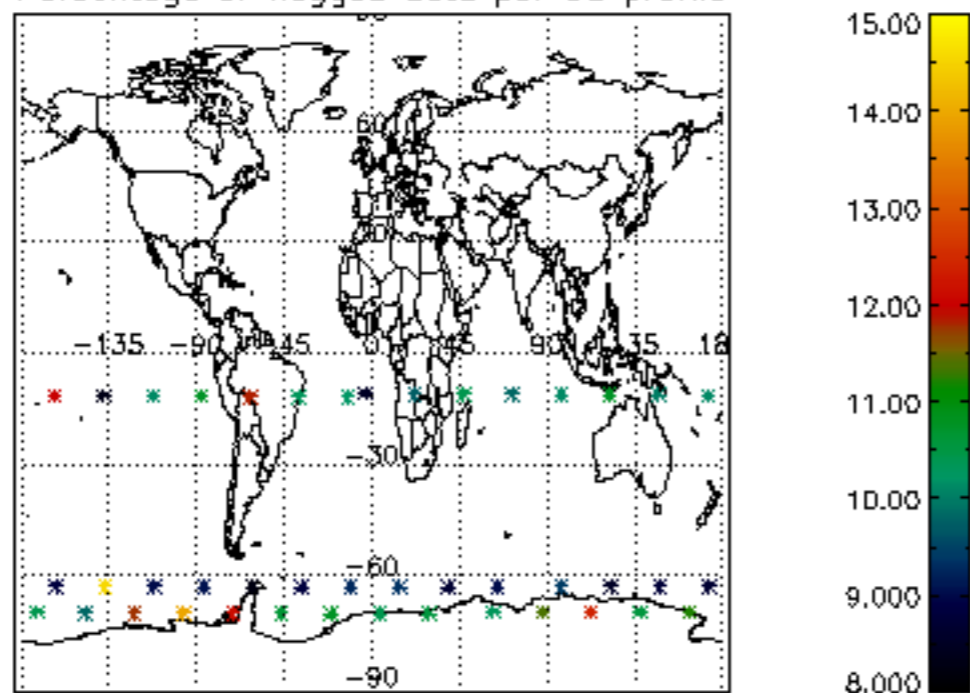




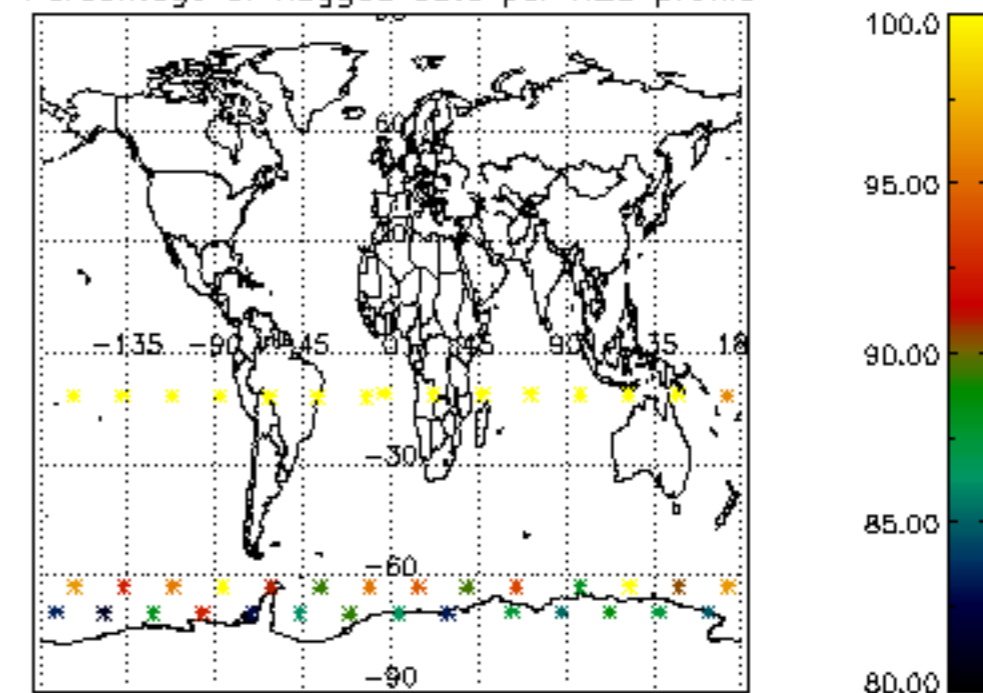




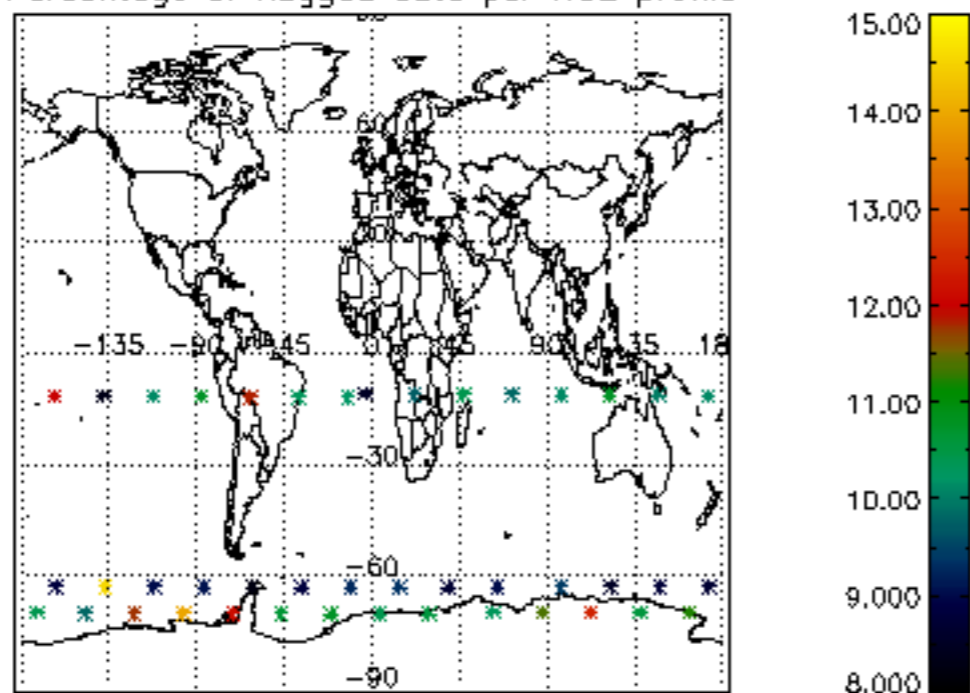
Percentage of flagged data per D3 profile



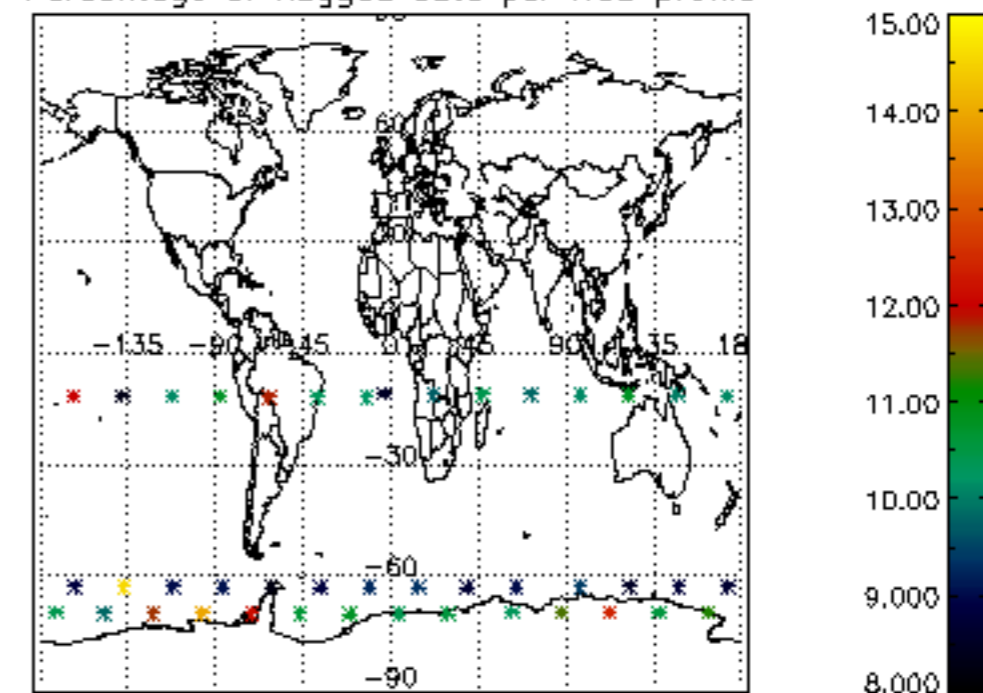
Percentage of flagged data per H2O profile

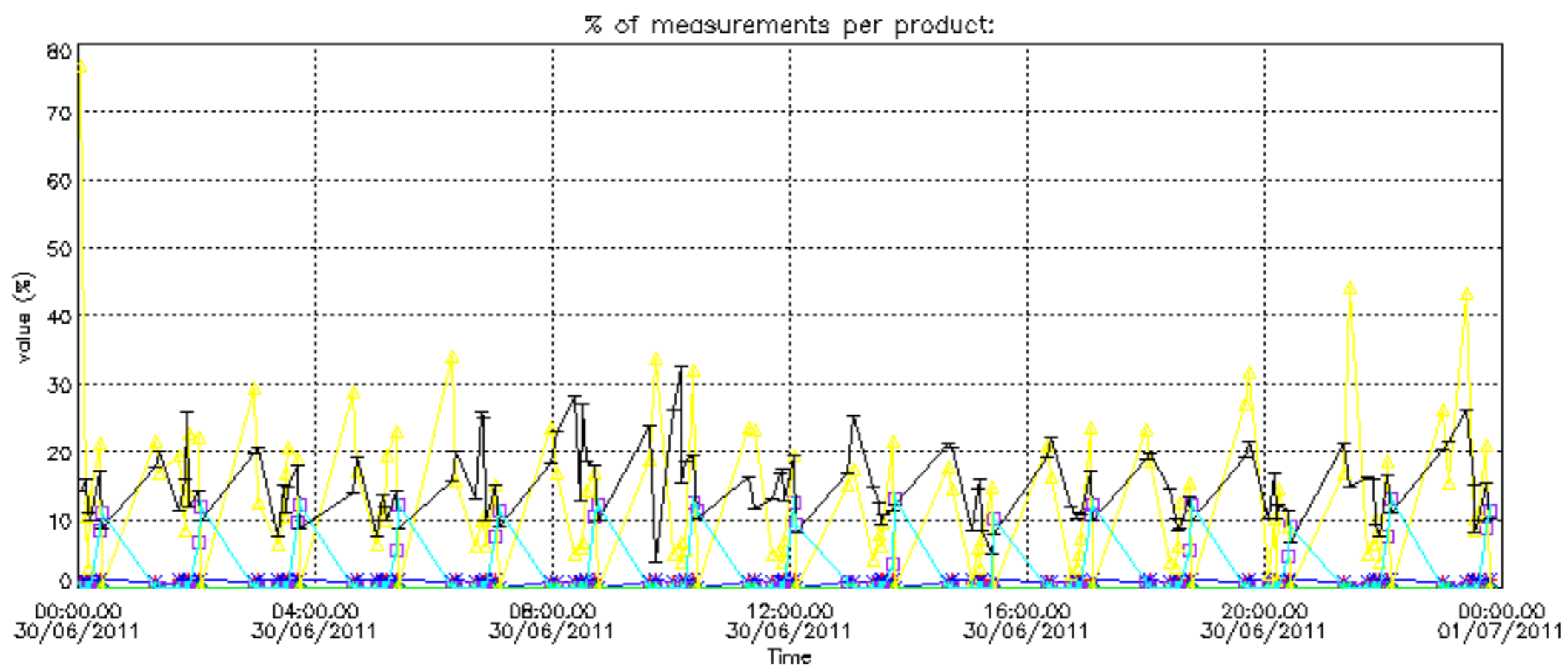


Percentage of flagged data per NO2 profile

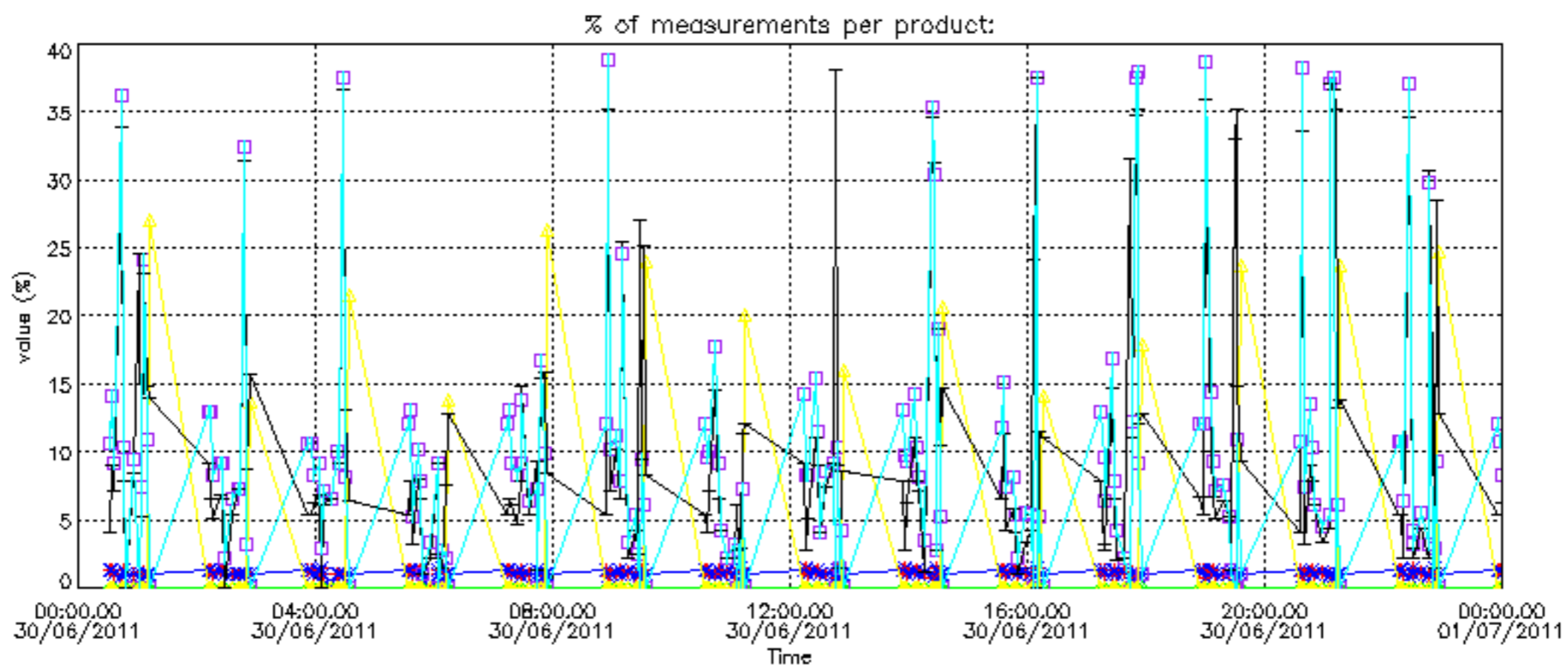


Percentage of flagged data per NO3 profile

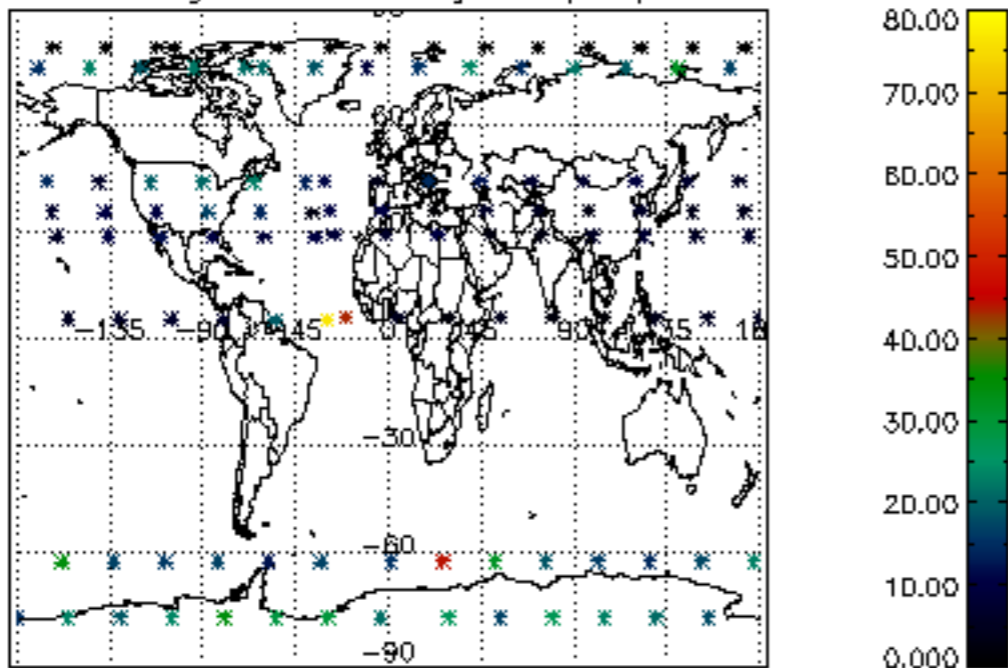




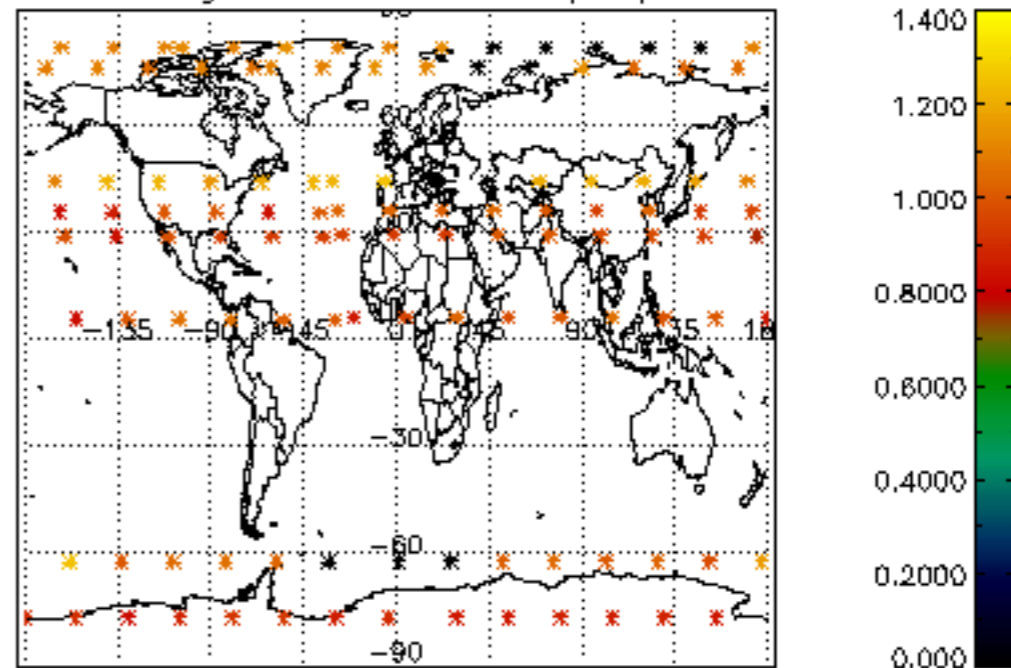




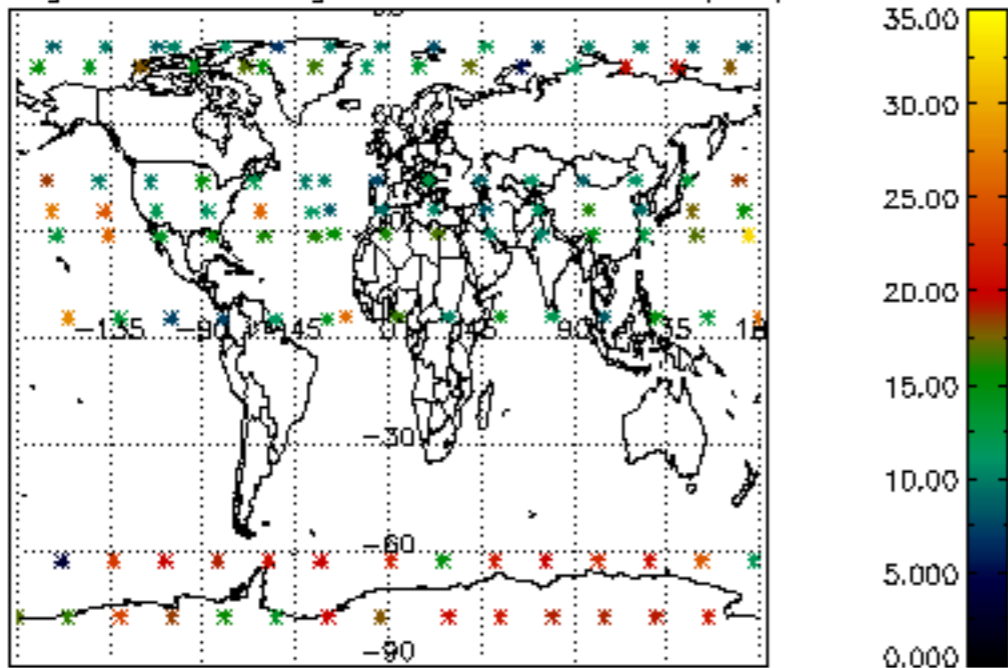
Percentage of cosmic ray hits per profile



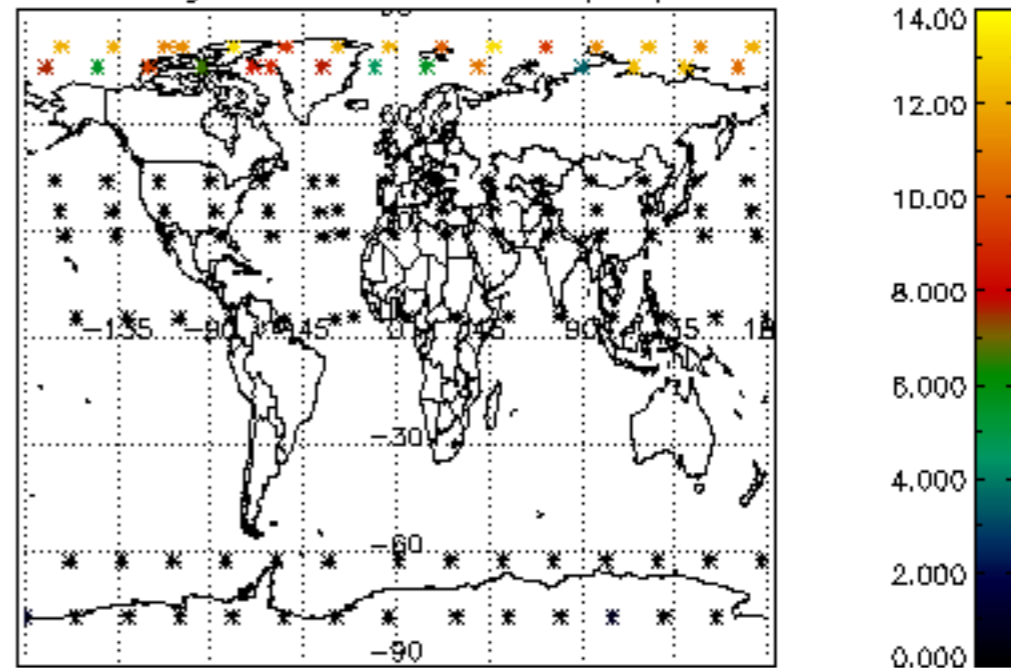
Percentage of datation errors per profile



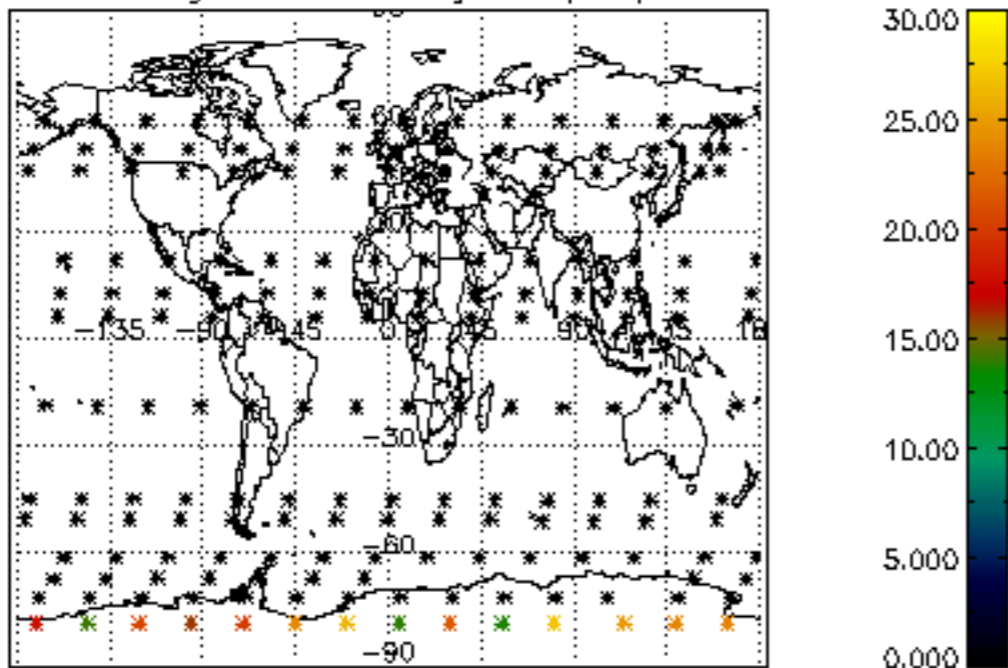
Percentage of star falling outside central band per profile



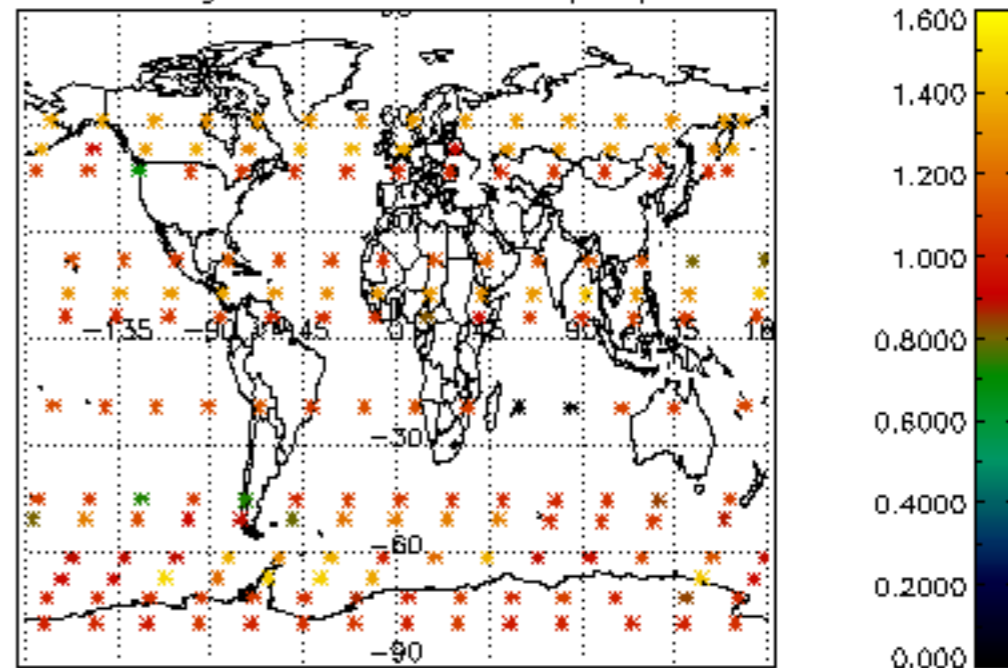
Percentage of saturation errors per profile



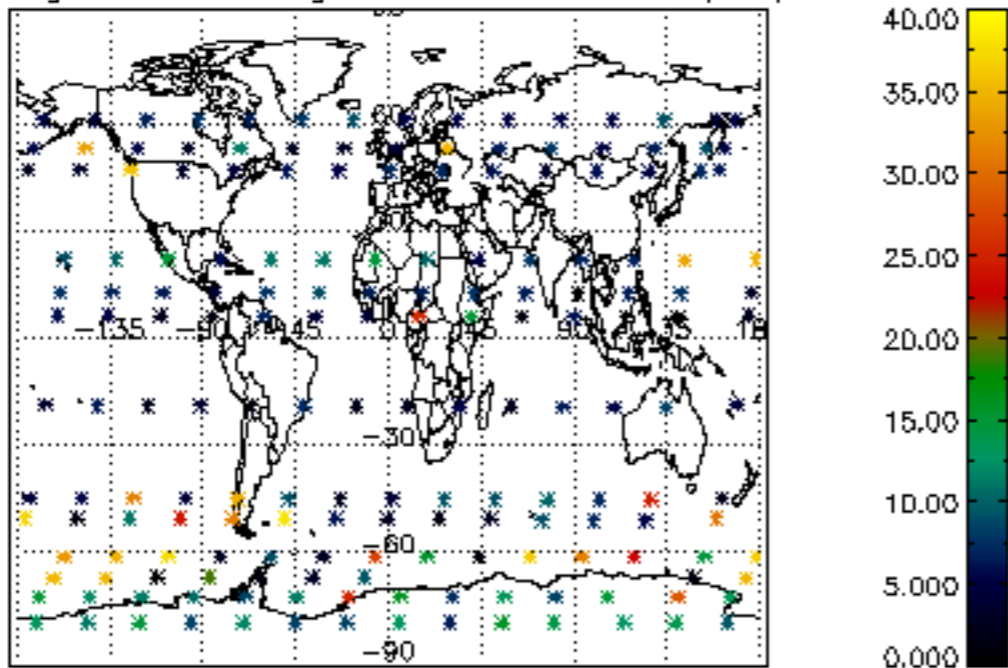
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

