

# GOMOS Level 2 Daily Report

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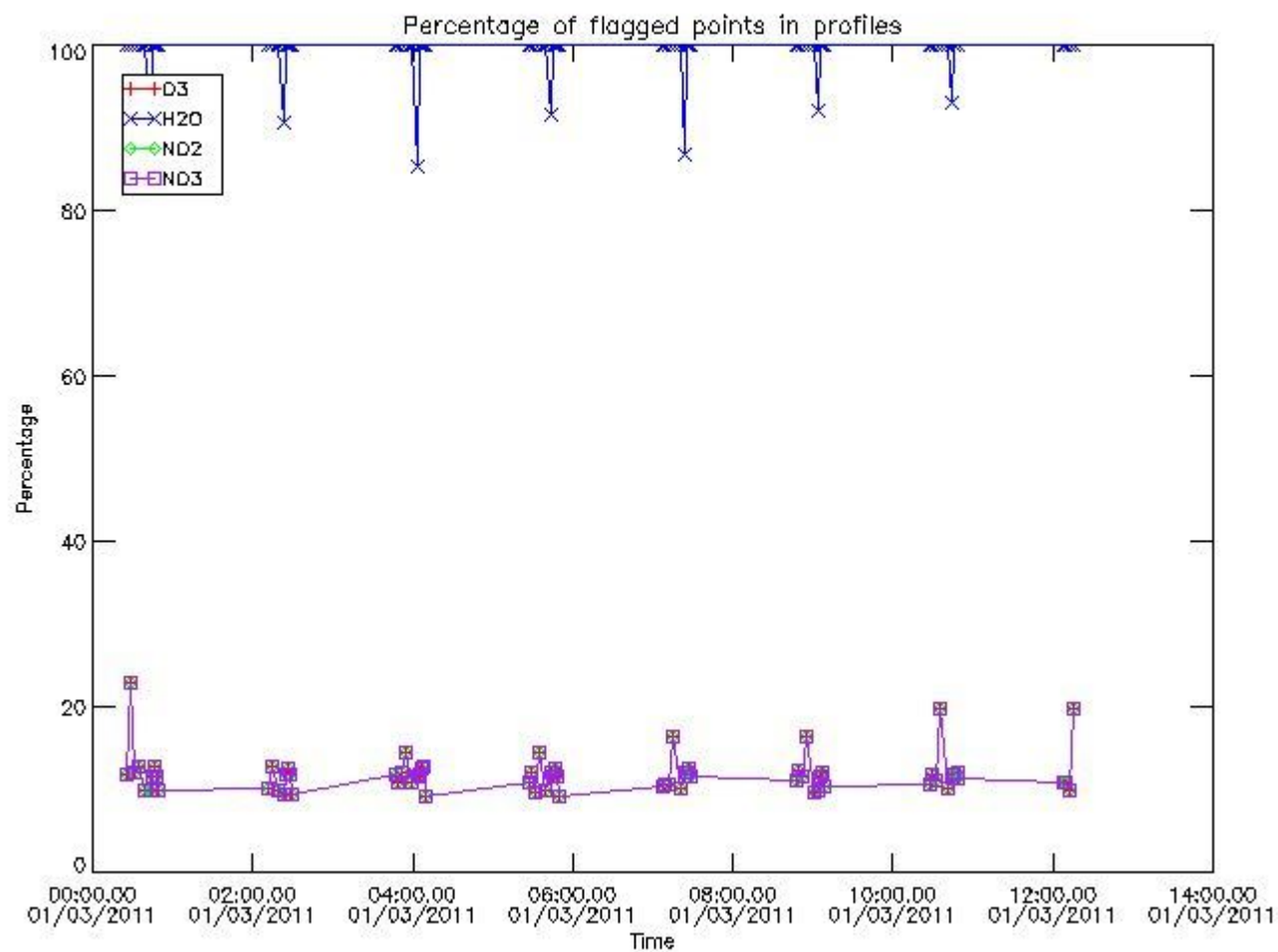


161	GOM_NL__2PRFIN20110301_112219_000000463100_00066_47063_1673.N1	01-MAR-2011 11:22:19	Bright	45.500	174	52Psi UMa	3.0040	4400.0	91	47063	No
162	GOM_NL__2PRFIN20110301_112505_000000423100_00066_47063_1674.N1	01-MAR-2011 11:25:05	Bright	41.500	82	48Bet UMa	2.3650	10600.	83	47063	No
163	GOM_NL__2PRFIN20110301_112625_000000423100_00066_47063_1675.N1	01-MAR-2011 11:26:25	Bright	41.500	36	50Alp UMa	1.8000	6300.0	83	47063	No
164	GOM_NL__2PRFIN20110301_112934_000000513100_00066_47063_1676.N1	01-MAR-2011 11:29:34	Bright	50.500	32	77Eps UMa	1.7630	11000.	101	47063	No
165	GOM_NL__2PRFIN20110301_113334_000000423100_00066_47063_1677.N1	01-MAR-2011 11:33:34	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	47063	No
166	GOM_NL__2PRFIN20110301_113814_000000443100_00066_47063_1678.N1	01-MAR-2011 11:38:14	Bright	44.000	119	14Eta Dra	2.7270	4700.0	88	47063	No
167	GOM_NL__2PRFIN20110301_114238_000000473100_00066_47063_1679.N1	01-MAR-2011 11:42:38	Bright	46.500	130	23Bet Dra	2.7990	5800.0	93	47063	No
168	GOM_NL__2PRFIN20110301_114744_000000453100_00066_47063_1680.N1	01-MAR-2011 11:47:44	Bright	45.000	5	3Alp Lyr	0.033000	11000.	90	47063	No
169	GOM_NL__2PRFIN20110301_115522_000000403100_00066_47063_1681.N1	01-MAR-2011 11:55:22	Bright	40.000	168	17Zet Aql	2.9860	11000.	80	47063	No
170	GOM_NL__2PRFIN20110301_120118_000000663100_00066_47063_1682.N1	01-MAR-2011 12:01:18	Straylight	65.500	126	60Bet Oph	2.7700	4250.0	131	47063	No
171	GOM_NL__2PRFIN20110301_120744_000000483100_00066_47063_1683.N1	01-MAR-2011 12:07:44	Dark	47.500	137	22Lam Sgr	2.8240	4400.0	95	47063	No
172	GOM_NL__2PRFIN20110301_121005_000000483100_00066_47063_1684.N1	01-MAR-2011 12:10:05	Dark	47.500	38	20Eps Sgr	1.8360	11000.	95	47063	No
173	GOM_NL__2PRFIN20110301_121257_000000523100_00066_47063_1685.N1	01-MAR-2011 12:12:57	Dark	52.000	25	35Lam Sco	1.6200	28000.	104	47063	No
174	GOM_NL__2PRFIN20110301_121550_000000263100_00066_47063_1686.N1	01-MAR-2011 12:15:50	Dark	26.000	16	21Alp Sco	1.0200	3000.0	52	47063	No

### 3. Quality information per product

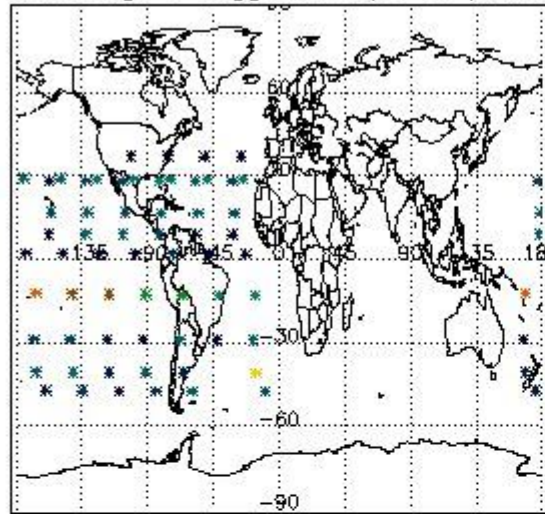
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

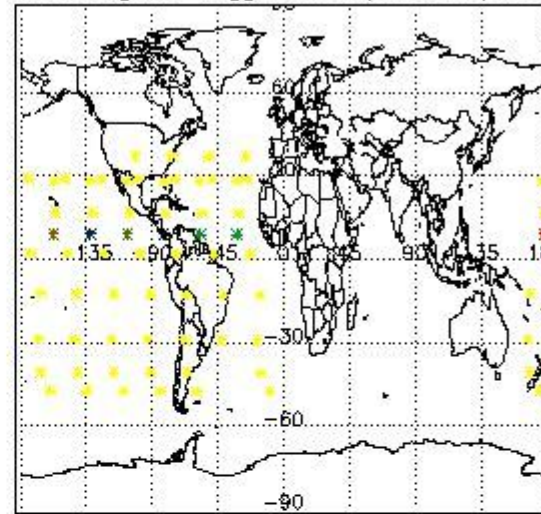


#### 3.2 Plot quality information per product (world map)

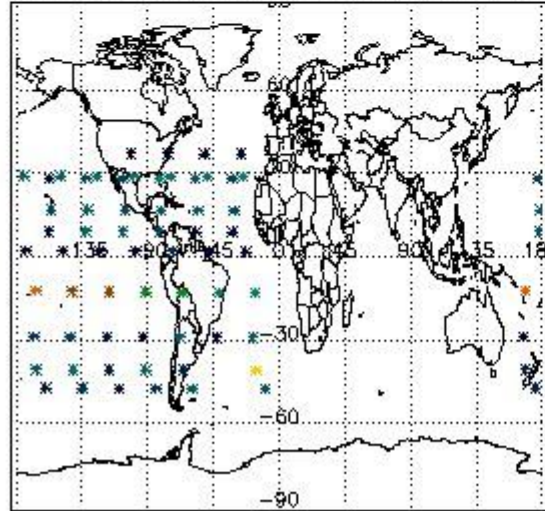
Percentage of flagged data per O3 profile



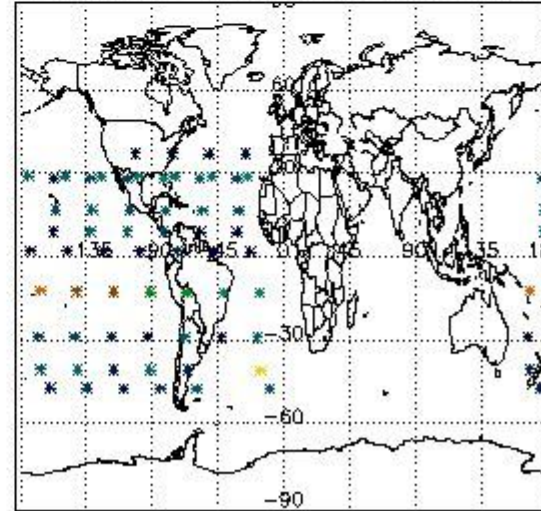
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

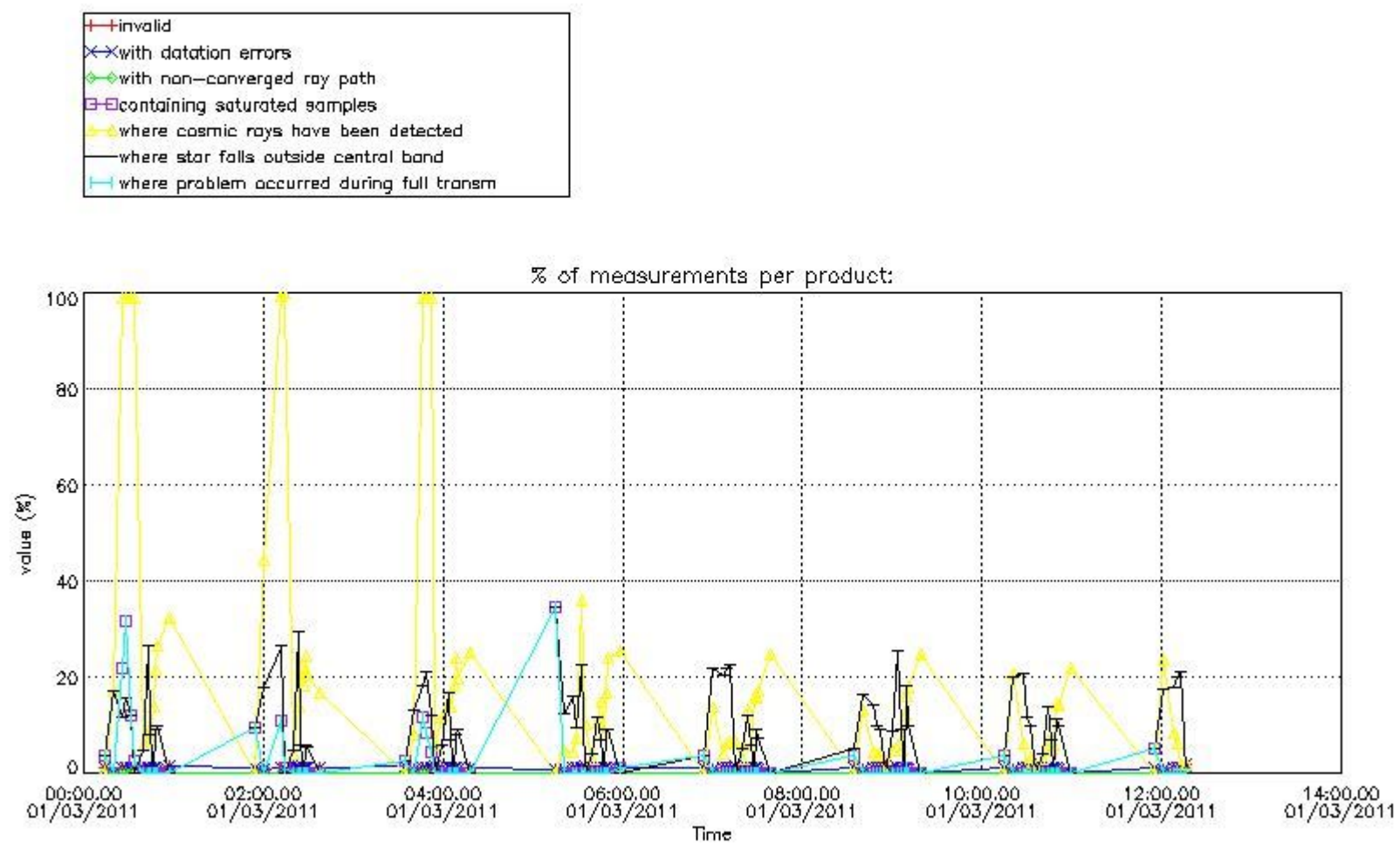


#### 4. Level 1 quality information per product

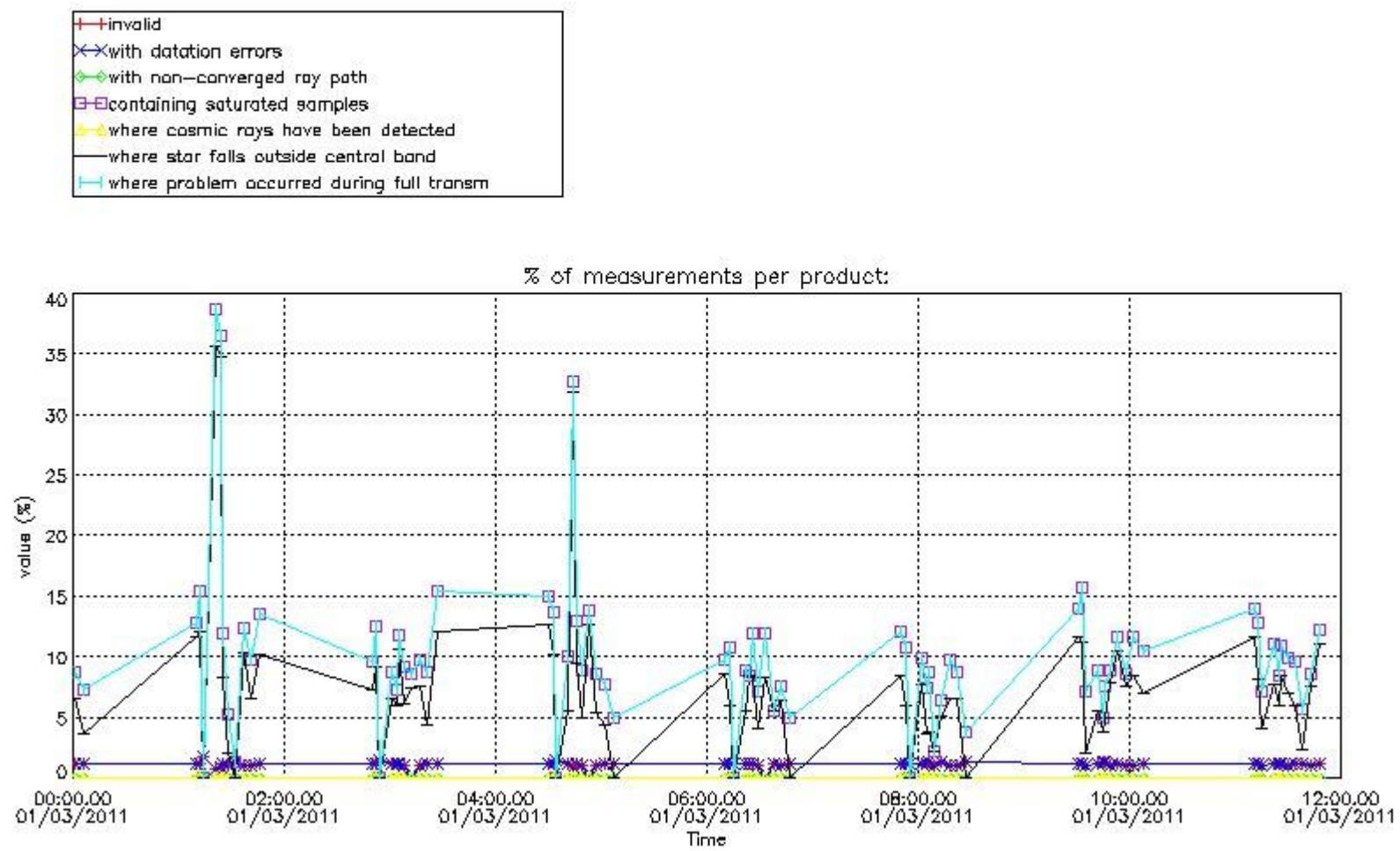
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



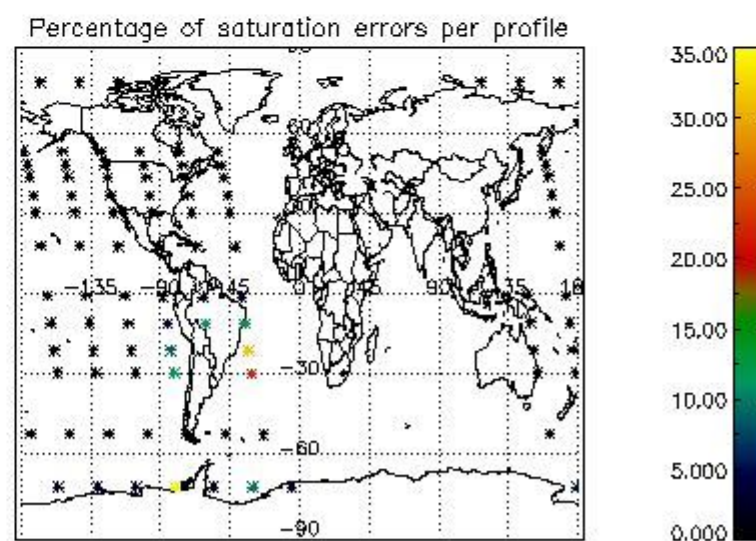
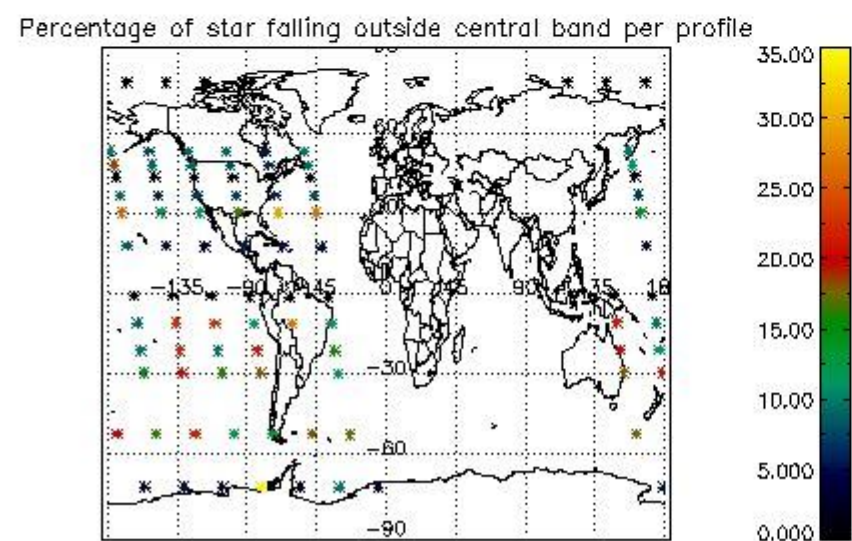
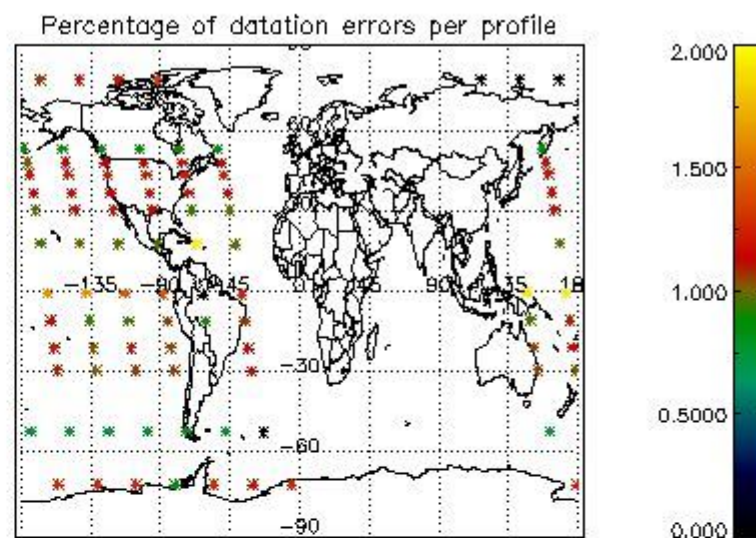
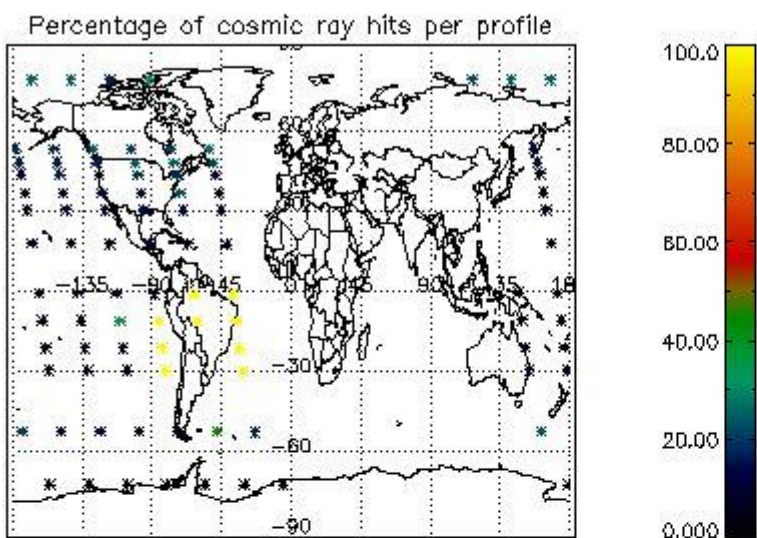
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



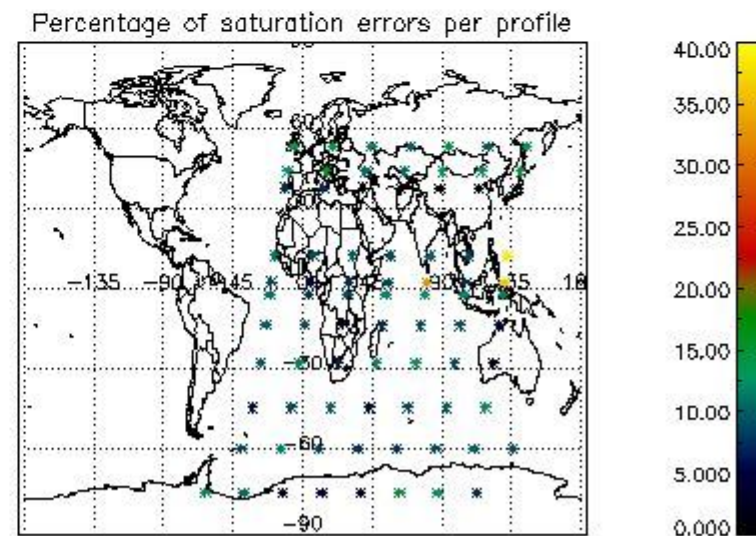
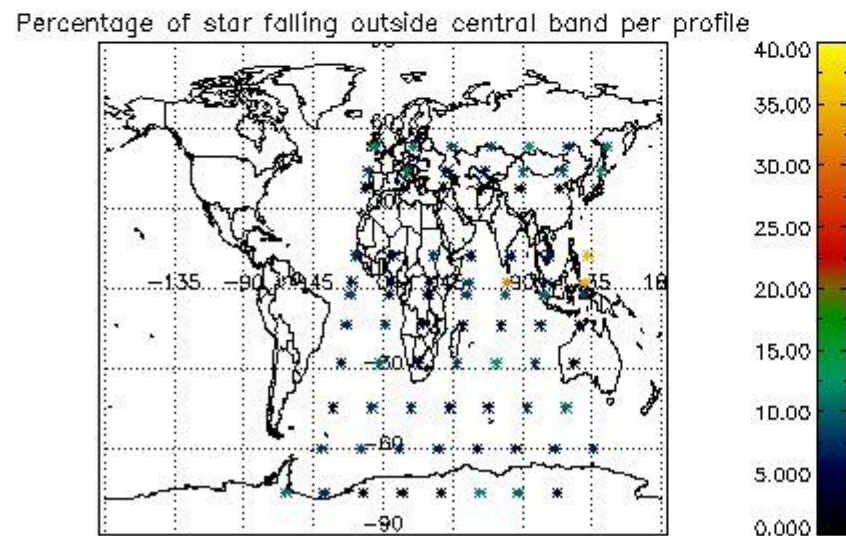
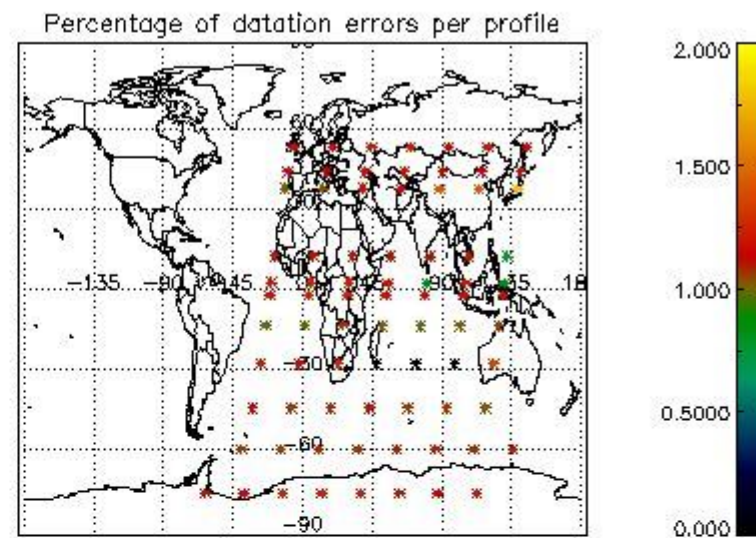
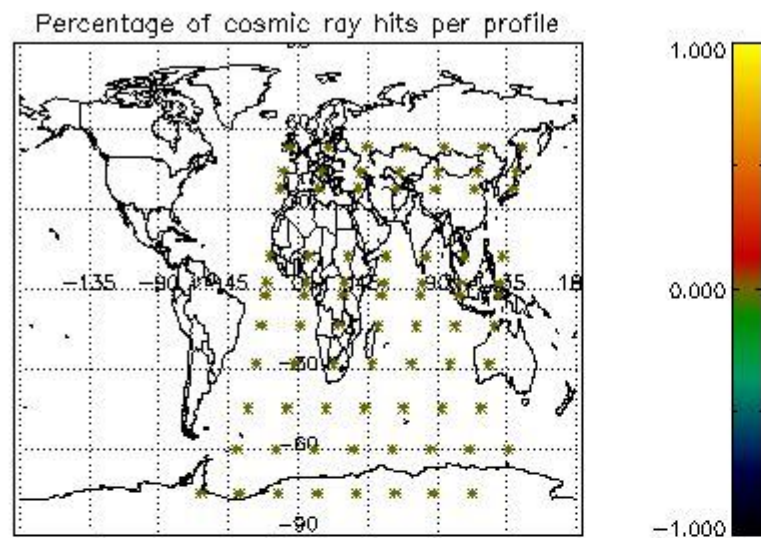
#### 4.2 Plot quality information per product coming from level 1b processing (world map)

##### 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

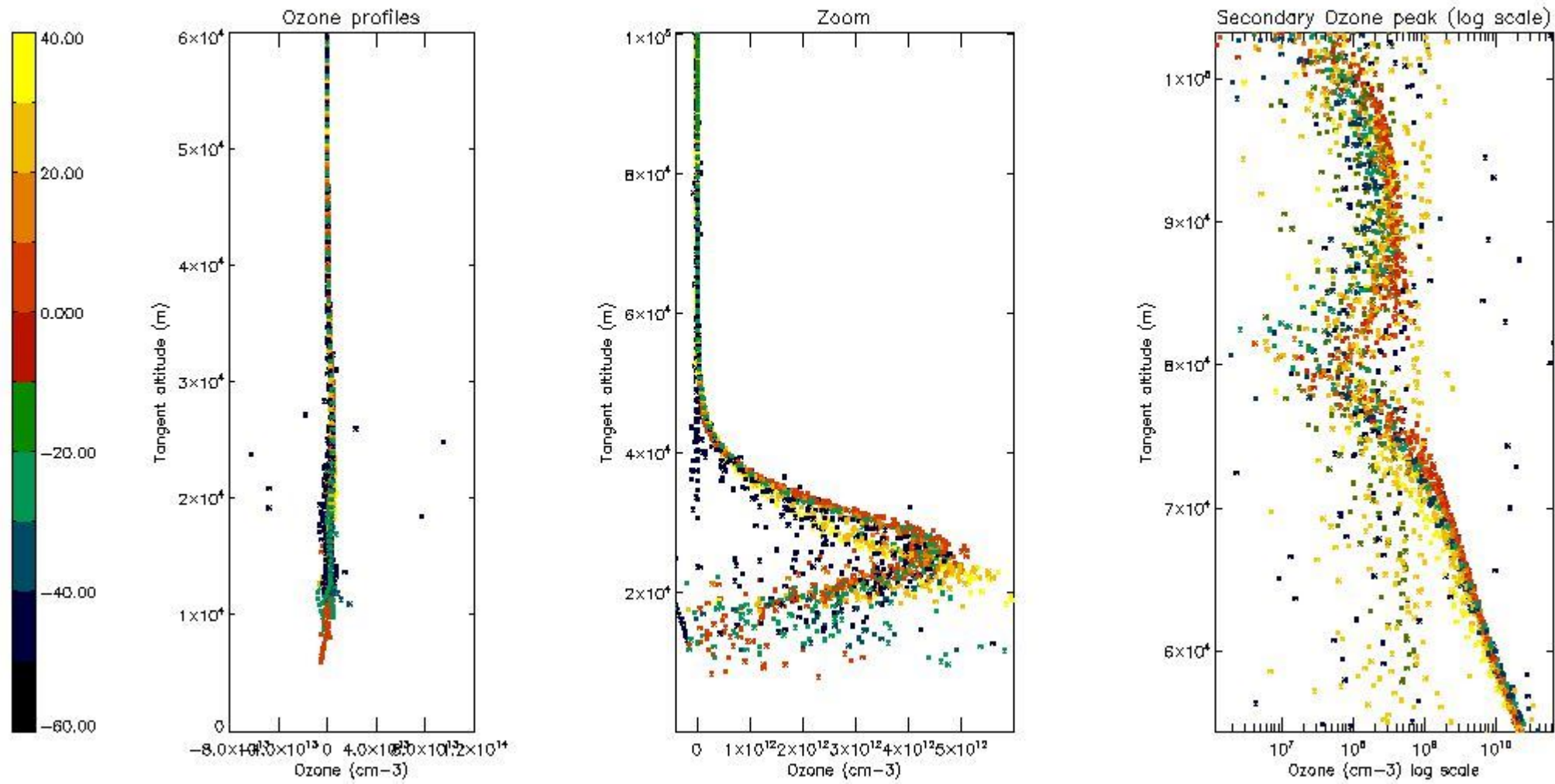
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	40
STD < 20	18

STD < 10	15
STD < 5	10

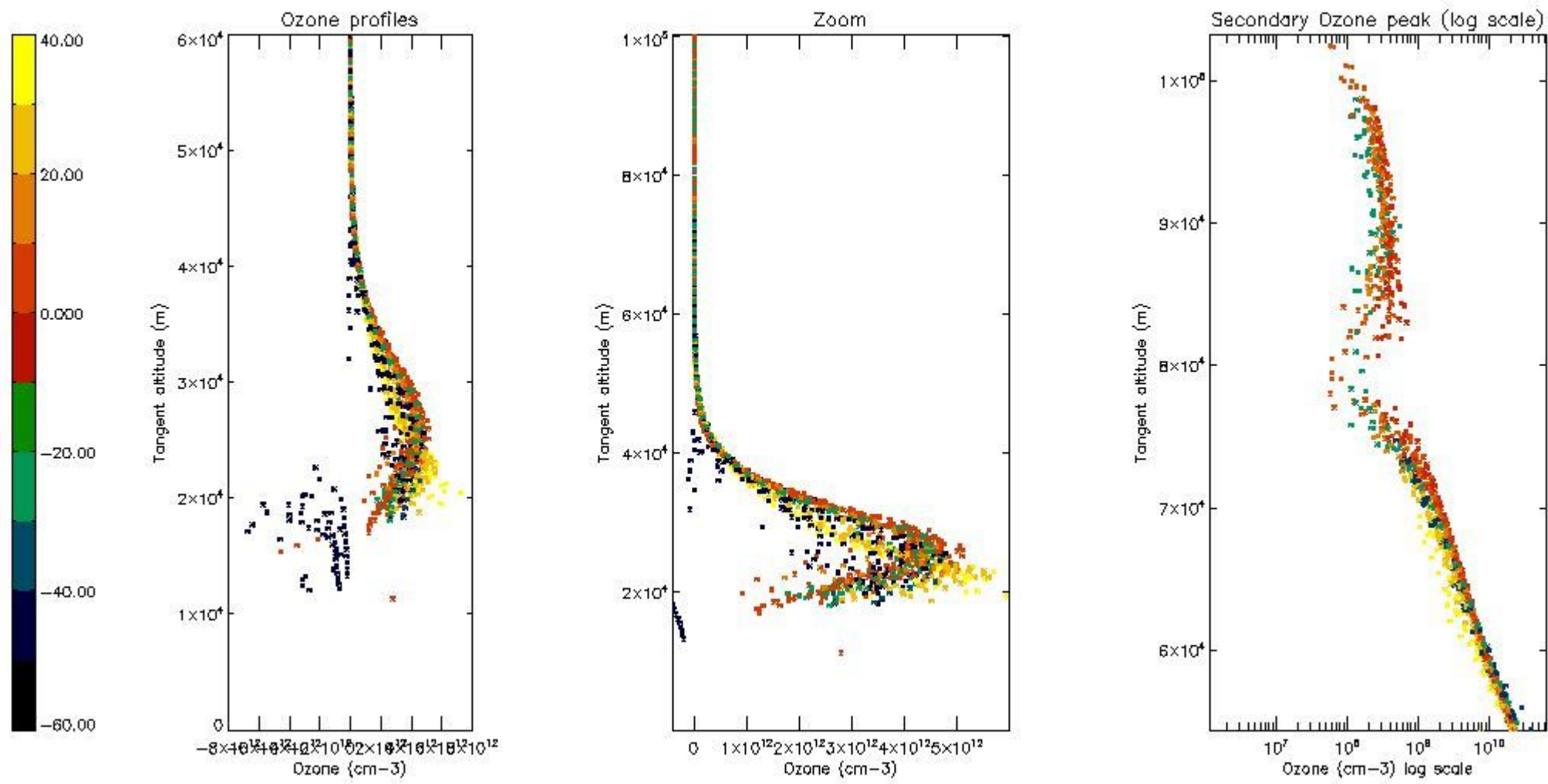
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



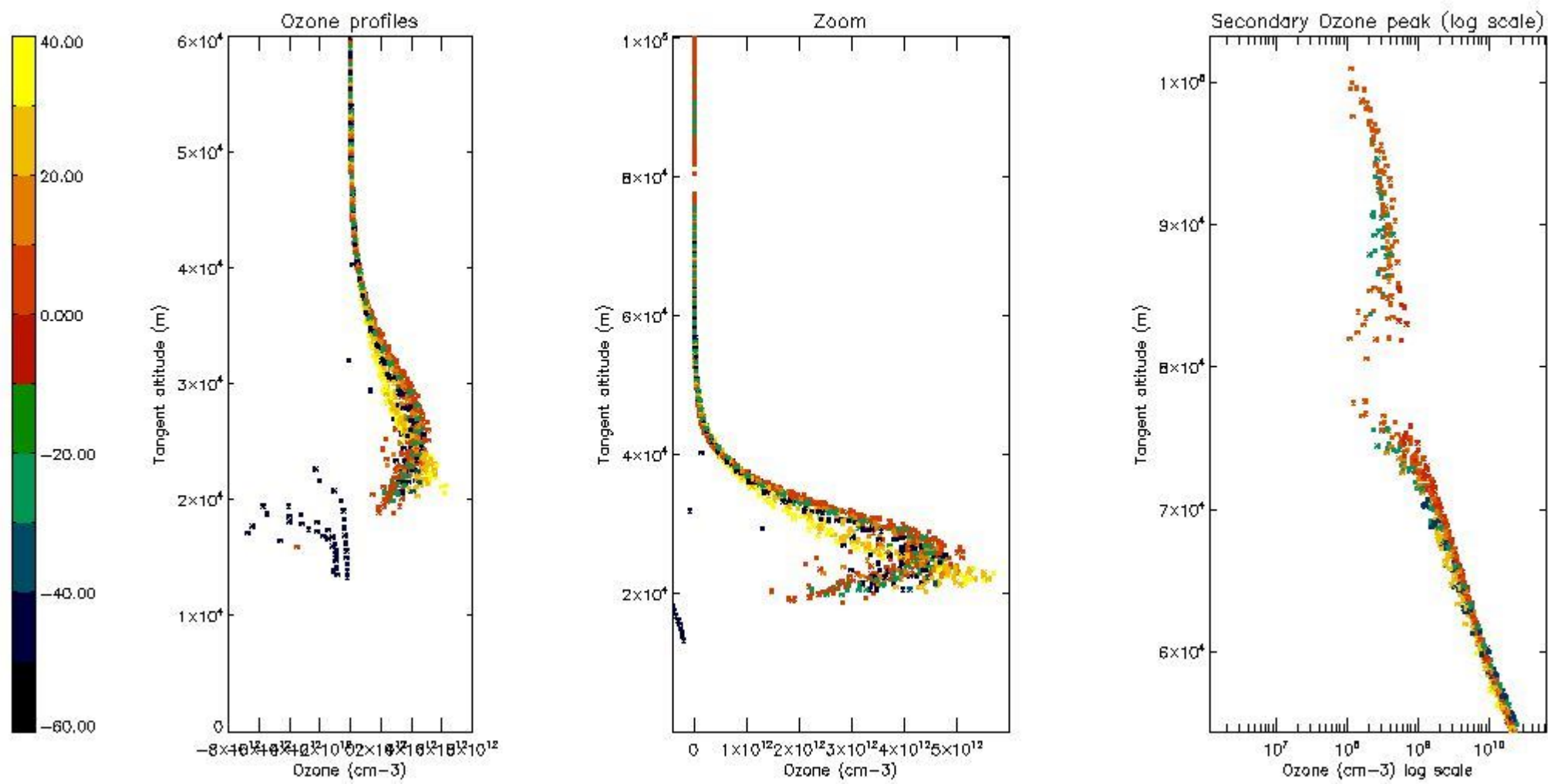
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



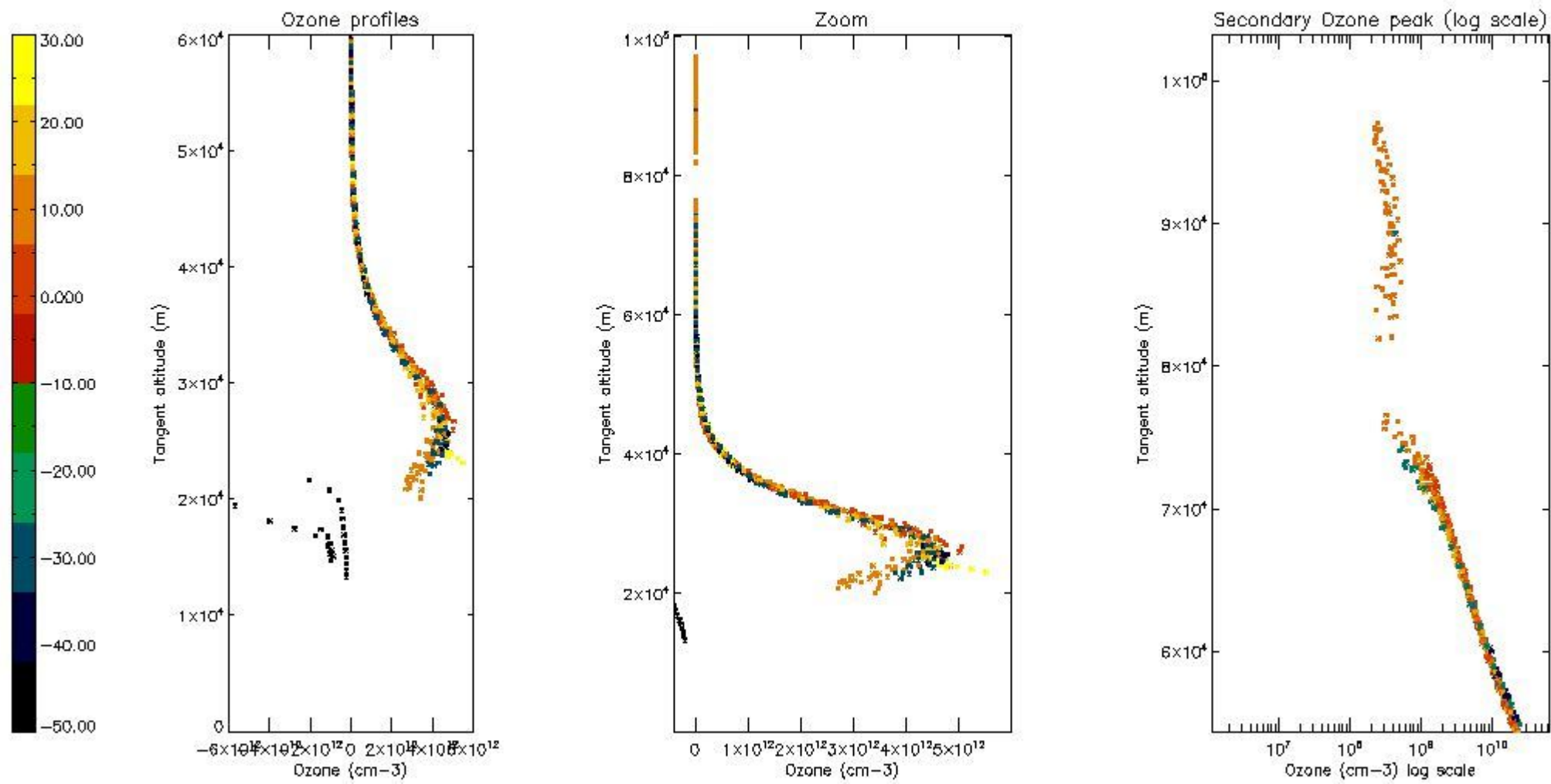
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



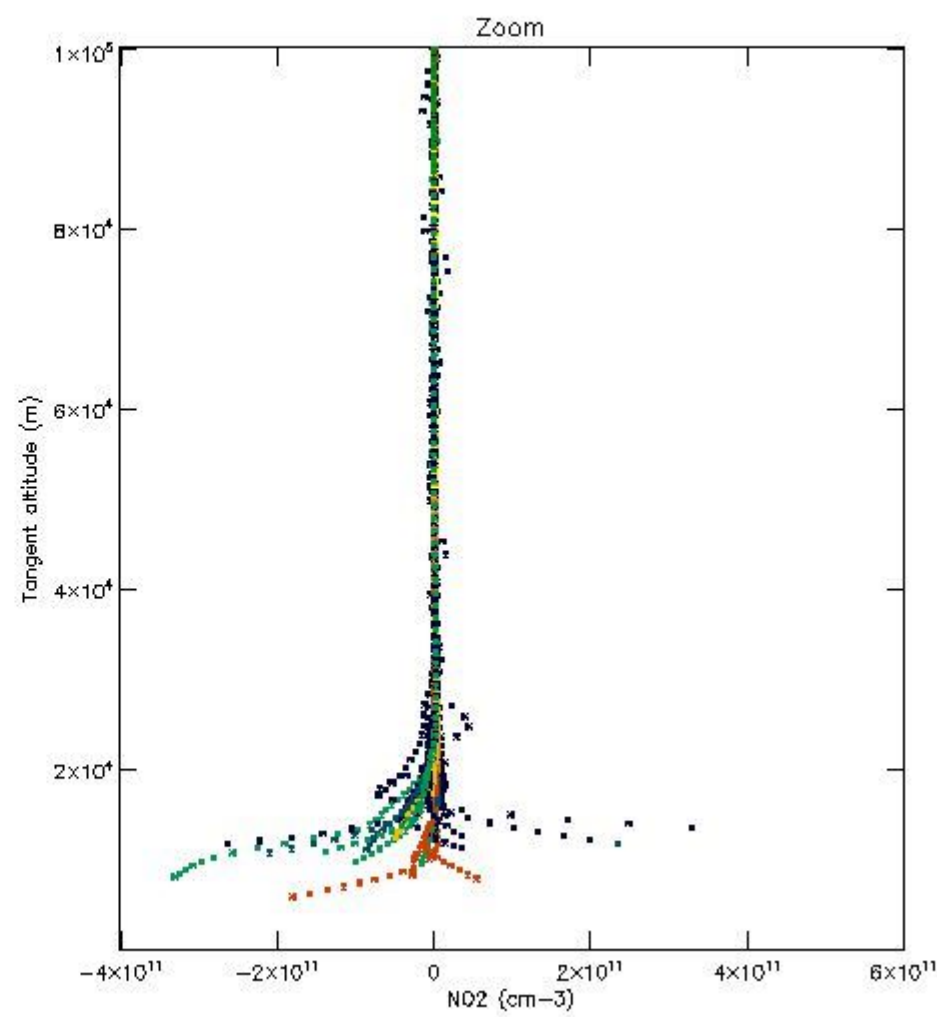
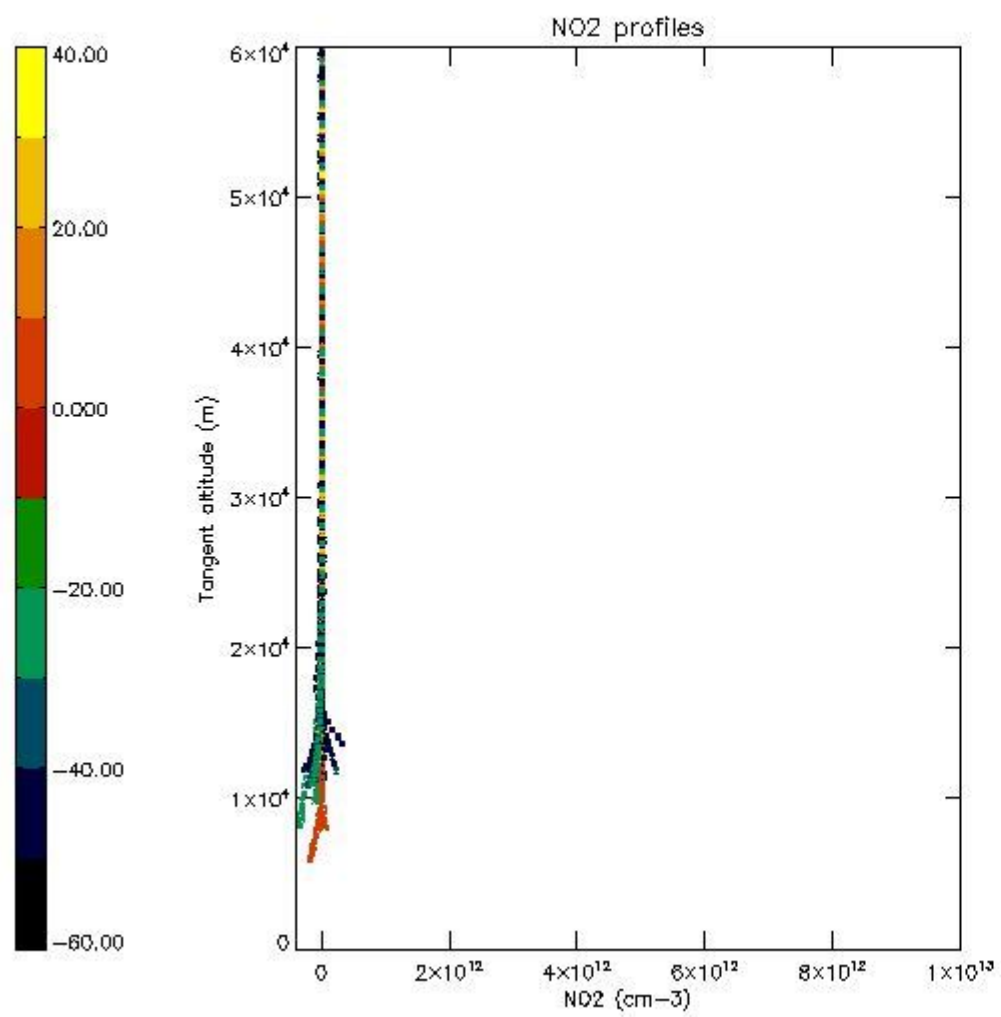
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



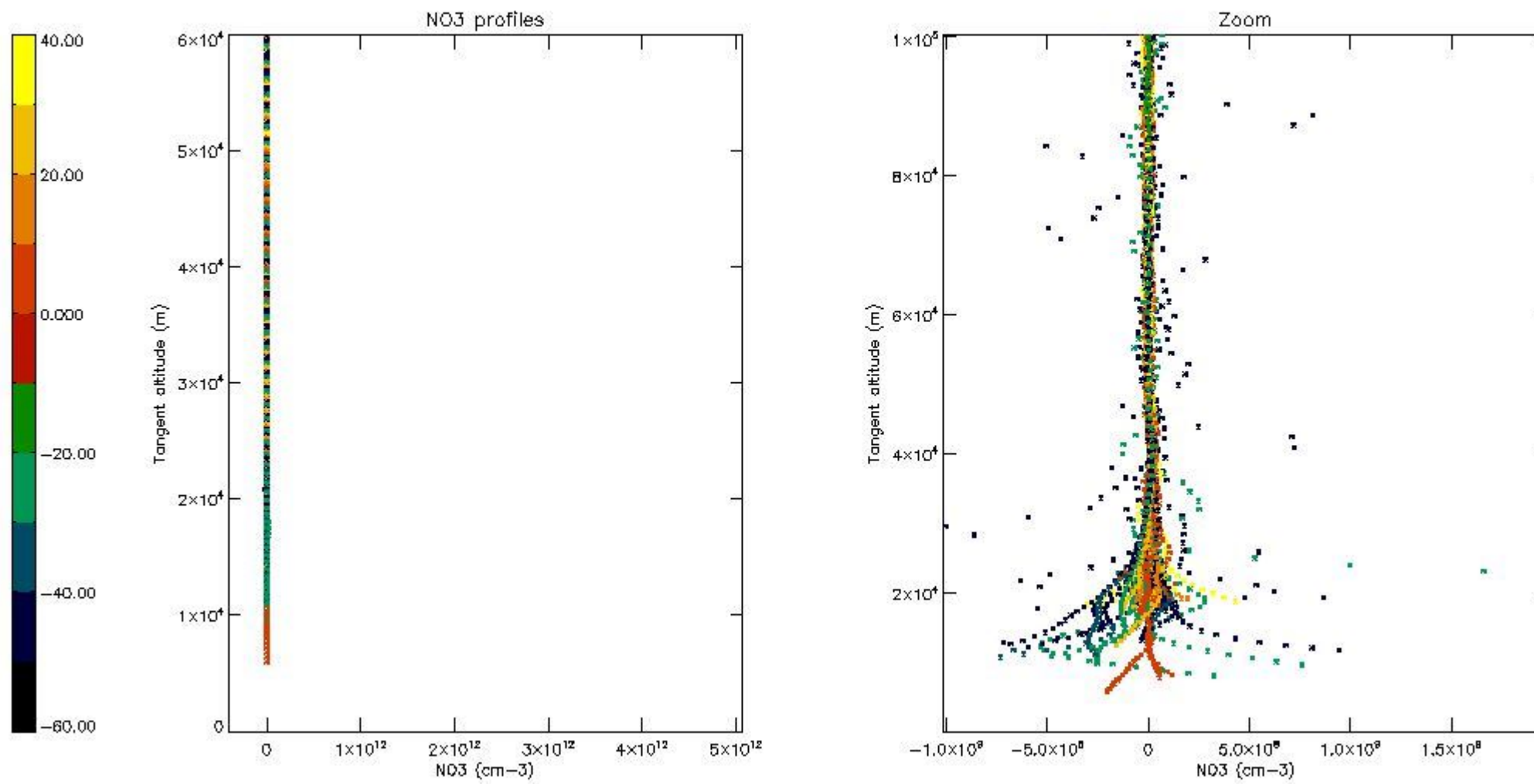
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

The colorbar represents the latitude.



## 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	01-MAR-2011 00:01:02
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	01-MAR-2011 00:01:02
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	01-MAR-2011 00:01:02



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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	24APR2013 10:48:36
Data source version	GOMOS/6.01
Start time of products	01-03-2011 (01MAR2011 00:00:00)
Stop time of products	02-03-2011 (02MAR2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	174
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__2PRFIN20110301_000102_000000463100_00059_47056_1521.N1	01-MAR-2011 00:01:02	Bright	45.500	130	23Bet Dra	2.7990	5800.0	91	47056	No
2	GOM_NL__2PRFIN20110301_000606_000000423100_00059_47056_1522.N1	01-MAR-2011 00:06:06	Bright	41.500	5	3Alp Lyr	0.033000	11000.	83	47056	No
3	GOM_NL__2PRFIN20110301_001342_000000403100_00059_47056_1523.N1	01-MAR-2011 00:13:42	Bright	39.500	168	17Zet Aql	2.9860	11000.	79	47056	No
4	GOM_NL__2PRFIN20110301_001933_000000643100_00059_47056_1524.N1	01-MAR-2011 00:19:33	Straylight	64.000	126	60Bet Oph	2.7700	4250.0	128	47056	No
5	GOM_NL__2PRFIN20110301_002601_000000443100_00059_47056_1525.N1	01-MAR-2011 00:26:01	Dark	43.500	137	22Lam Sgr	2.8240	4400.0	87	47056	No
6	GOM_NL__2PRFIN20110301_002823_000000453100_00059_47056_1526.N1	01-MAR-2011 00:28:23	Dark	44.500	38	20Eps Sgr	1.8360	11000.	89	47056	No
7	GOM_NL__2PRFIN20110301_003113_000000473100_00059_47056_1527.N1	01-MAR-2011 00:31:13	Dark	46.500	25	35Lam Sco	1.6200	28000.	93	47056	No
8	GOM_NL__2PRFIN20110301_003400_000000403100_00059_47056_1528.N1	01-MAR-2011 00:34:00	Dark	40.000	16	21Alp Sco	1.0200	3000.0	80	47056	No
9	GOM_NL__2PRFIN20110301_003914_000000513100_00060_47057_1515.N1	01-MAR-2011 00:39:14	Dark	51.000	131	Gam Lup	2.8000	26000.	102	47057	No
10	GOM_NL__2PRFIN20110301_004247_000000513100_00060_47057_1516.N1	01-MAR-2011 00:42:47	Dark	51.000	10	Bet Cen	0.61000	28000.	102	47057	No
11	GOM_NL__2PRFIN20110301_004435_000000443100_00060_47057_1517.N1	01-MAR-2011 00:44:35	Dark	44.000	77	Eps Cen	2.3030	28000.	88	47057	No
12	GOM_NL__2PRFIN20110301_004629_000000403100_00060_47057_1518.N1	01-MAR-2011 00:46:29	Dark	40.000	54	5The Cen	2.0550	4500.0	80	47057	No
13	GOM_NL__2PRFIN20110301_004747_000000453100_00060_47057_1519.N1	01-MAR-2011 00:47:47	Dark	44.500	64	Gam Cen	2.2000	10600.	89	47057	No
14	GOM_NL__2PRFIN20110301_004915_000000573100_00060_47057_1520.N1	01-MAR-2011 00:49:15	Dark	56.500	123	lot Cen	2.7500	10200.	113	47057	No
15	GOM_NL__2PRFIN20110301_005717_000000373100_00060_47057_1521.N1	01-MAR-2011 00:57:17	Straylight	37.000	171	2Eps Crv	3.0010	4250.0	74	47057	No
16	GOM_NL__2PRFIN20110301_010930_000000433100_00060_47057_1522.N1	01-MAR-2011 01:09:30	Bright	43.000	22	32Alp Leo	1.3600	15200.	86	47057	No
17	GOM_NL__2PRFIN20110301_011206_000000463100_00060_47057_1523.N1	01-MAR-2011 01:12:06	Bright	45.500	51	41Gam1Leo	2.0100	4500.0	91	47057	No
18	GOM_NL__2PRFIN20110301_011355_000000283100_00060_47057_1524.N1	01-MAR-2011 01:13:55	Twilight_and_stray	28.000	96	68Del Leo	2.5600	9300.0	56	47057	No
19	GOM_NL__2PRFIN20110301_012059_000000663100_00060_47057_1525.N1	01-MAR-2011 01:20:59	Bright	66.000	174	52Psi UMa	3.0040	4400.0	132	47057	No
20	GOM_NL__2PRFIN20110301_012344_000000593100_00060_47057_1526.N1	01-MAR-2011 01:23:44	Bright	59.000	82	48Bet UMa	2.3650	10600.	118	47057	No
21	GOM_NL__2PRFIN20110301_012504_000000423100_00060_47057_1527.N1	01-MAR-2011 01:25:04	Bright	42.000	36	50Alp UMa	1.8000	6300.0	84	47057	No
22	GOM_NL__2PRFIN20110301_012815_000000483100_00060_47057_1528.N1	01-MAR-2011 01:28:15	Bright	47.500	32	77Eps UMa	1.7630	11000.	95	47057	No
23	GOM_NL__2PRFIN20110301_013212_000000373100_00060_47057_1529.N1	01-MAR-2011 01:32:12	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	47057	No
24	GOM_NL__2PRFIN20110301_013652_000000493100_00060_47057_1530.N1	01-MAR-2011 01:36:52	Bright	48.500	119	14Eta Dra	2.7270	4700.0	97	47057	No
25	GOM_NL__2PRFIN20110301_014115_000000463100_00060_47057_1531.N1	01-MAR-2011 01:41:15	Bright	46.000	130	23Bet Dra	2.7990	5800.0	92	47057	No
26	GOM_NL__2PRFIN20110301_014620_000000453100_00060_47057_1532.N1	01-MAR-2011 01:46:20	Bright	44.500	5	3Alp Lyr	0.033000	11000.	89	47057	No
27	GOM_NL__2PRFIN20110301_015356_000000423100_00060_47057_1533.N1	01-MAR-2011 01:53:56	Bright	42.000	168	17Zet Aql	2.9860	11000.	84	47057	No
28	GOM_NL__2PRFIN20110301_015948_000000643100_00060_47057_1534.N1	01-MAR-2011 01:59:48	Straylight	64.000	126	60Bet Oph	2.7700	4250.0	128	47057	No
29	GOM_NL__2PRFIN20110301_021128_000000553100_00060_47057_1535.N1	01-MAR-2011 02:11:28	Dark	55.000	25	35Lam Sco	1.6200	28000.	110	47057	No
30	GOM_NL__2PRFIN20110301_021416_000000403100_00060_47057_1536.N1	01-MAR-2011 02:14:16	Dark	39.500	16	21Alp Sco	1.0200	3000.0	79	47057	No
31	GOM_NL__2PRFIN20110301_021929_000000513100_00061_47058_1524.N1	01-MAR-2011 02:19:29	Dark	51.000	131	Gam Lup	2.8000	26000.	102	47058	No
32	GOM_NL__2PRFIN20110301_022302_000000543100_00061_47058_1525.N1	01-MAR-2011 02:23:02	Dark	54.000	10	Bet Cen	0.61000	28000.	108	47058	No
33	GOM_NL__2PRFIN20110301_022449_000000433100_00061_47058_1526.N1	01-MAR-2011 02:24:49	Dark	43.000	77	Eps Cen	2.3030	28000.	86	47058	No
34	GOM_NL__2PRFIN20110301_022644_000000413100_00061_47058_1527.N1	01-MAR-2011 02:26:44	Dark	41.000	54	5The Cen	2.0550	4500.0	82	47058	No
35	GOM_NL__2PRFIN20110301_022802_000000433100_00061_47058_1528.N1	01-MAR-2011 02:28:02	Dark	43.000	64	Gam Cen	2.2000	10600.	86	47058	No
36	GOM_NL__2PRFIN20110301_022930_000000553100_00061_47058_1529.N1	01-MAR-2011 02:29:30	Dark	54.500	123	lot Cen	2.7500	10200.	109	47058	No
37	GOM_NL__2PRFIN20110301_023731_000000423100_00061_47058_1530.N1	01-MAR-2011 02:37:31	Straylight	42.000	171	2Eps Crv	3.0010	4250.0	84	47058	No
38	GOM_NL__2PRFIN20110301_024944_000000423100_00061_47058_1531.N1	01-MAR-2011 02:49:44	Bright	41.500	22	32Alp Leo	1.3600	15200.	83	47058	No
39	GOM_NL__2PRFIN20110301_025220_000000443100_00061_47058_1532.N1	01-MAR-2011 02:52:20	Bright	44.000	51	41Gam1Leo	2.0100	4500.0	88	47058	No
40	GOM_NL__2PRFIN20110301_025408_000000353100_00061_47058_1533.N1	01-MAR-2011 02:54:08	Twilight_and_stray	35.000	96	68Del Leo	2.5600	9300.0	70	47058	No
41	GOM_NL__2PRFIN20110301_030112_000000463100_00061_47058_1534.N1	01-MAR-2011 03:01:12	Bright	45.500	174	52Psi UMa	3.0040	4400.0	91	47058	No
42	GOM_NL__2PRFIN20110301_030357_000000423100_00061_47058_1535.N1	01-MAR-2011 03:03:57	Bright	41.500	82	48Bet UMa	2.3650	10600.	83	47058	No



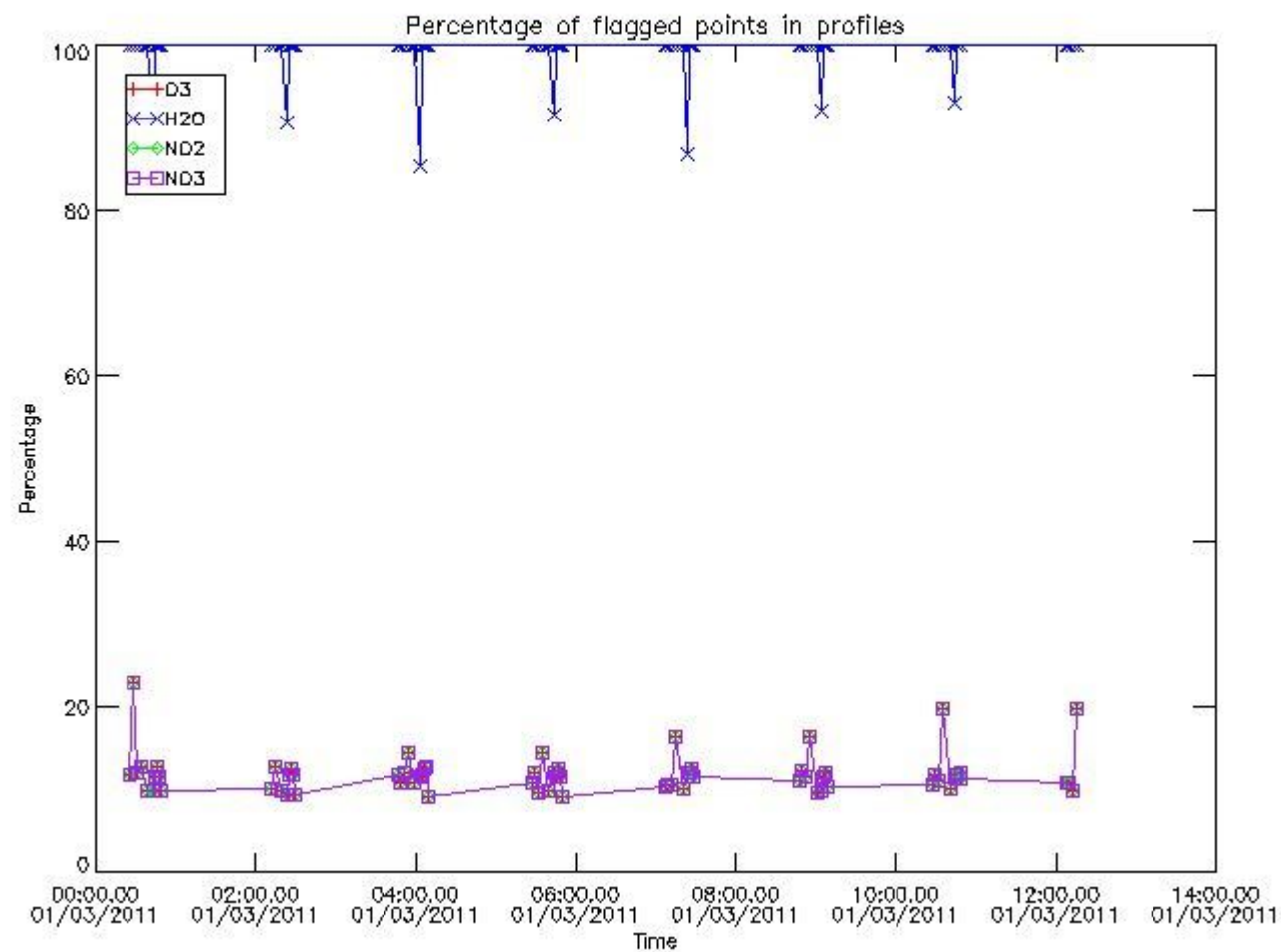


161	GOM_NL__2PRFIN20110301_112219_000000463100_00066_47063_1673.N1	01-MAR-2011 11:22:19	Bright	45.500	174	52Psi UMa	3.0040	4400.0	91	47063	No
162	GOM_NL__2PRFIN20110301_112505_000000423100_00066_47063_1674.N1	01-MAR-2011 11:25:05	Bright	41.500	82	48Bet UMa	2.3650	10600.	83	47063	No
163	GOM_NL__2PRFIN20110301_112625_000000423100_00066_47063_1675.N1	01-MAR-2011 11:26:25	Bright	41.500	36	50Alp UMa	1.8000	6300.0	83	47063	No
164	GOM_NL__2PRFIN20110301_112934_000000513100_00066_47063_1676.N1	01-MAR-2011 11:29:34	Bright	50.500	32	77Eps UMa	1.7630	11000.	101	47063	No
165	GOM_NL__2PRFIN20110301_113334_000000423100_00066_47063_1677.N1	01-MAR-2011 11:33:34	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	47063	No
166	GOM_NL__2PRFIN20110301_113814_000000443100_00066_47063_1678.N1	01-MAR-2011 11:38:14	Bright	44.000	119	14Eta Dra	2.7270	4700.0	88	47063	No
167	GOM_NL__2PRFIN20110301_114238_000000473100_00066_47063_1679.N1	01-MAR-2011 11:42:38	Bright	46.500	130	23Bet Dra	2.7990	5800.0	93	47063	No
168	GOM_NL__2PRFIN20110301_114744_000000453100_00066_47063_1680.N1	01-MAR-2011 11:47:44	Bright	45.000	5	3Alp Lyr	0.033000	11000.	90	47063	No
169	GOM_NL__2PRFIN20110301_115522_000000403100_00066_47063_1681.N1	01-MAR-2011 11:55:22	Bright	40.000	168	17Zet Aql	2.9860	11000.	80	47063	No
170	GOM_NL__2PRFIN20110301_120118_000000663100_00066_47063_1682.N1	01-MAR-2011 12:01:18	Straylight	65.500	126	60Bet Oph	2.7700	4250.0	131	47063	No
171	GOM_NL__2PRFIN20110301_120744_000000483100_00066_47063_1683.N1	01-MAR-2011 12:07:44	Dark	47.500	137	22Lam Sgr	2.8240	4400.0	95	47063	No
172	GOM_NL__2PRFIN20110301_121005_000000483100_00066_47063_1684.N1	01-MAR-2011 12:10:05	Dark	47.500	38	20Eps Sgr	1.8360	11000.	95	47063	No
173	GOM_NL__2PRFIN20110301_121257_000000523100_00066_47063_1685.N1	01-MAR-2011 12:12:57	Dark	52.000	25	35Lam Sco	1.6200	28000.	104	47063	No
174	GOM_NL__2PRFIN20110301_121550_000000263100_00066_47063_1686.N1	01-MAR-2011 12:15:50	Dark	26.000	16	21Alp Sco	1.0200	3000.0	52	47063	No

### 3. Quality information per product

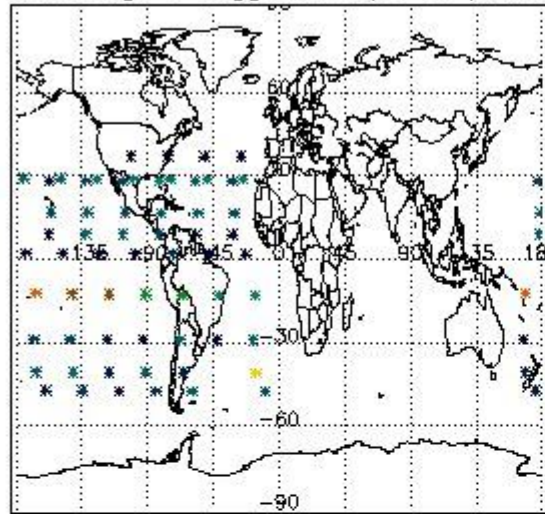
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

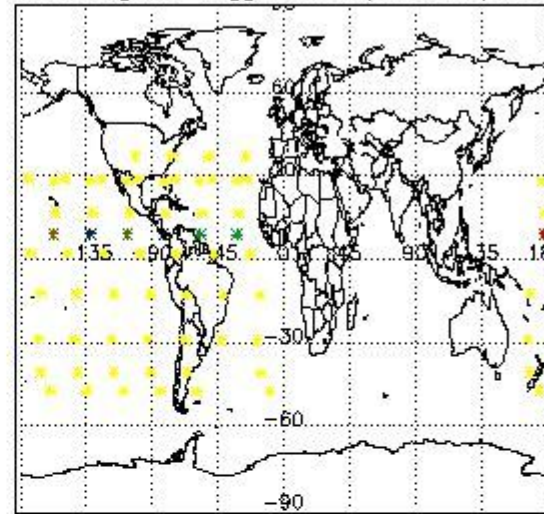


#### 3.2 Plot quality information per product (world map)

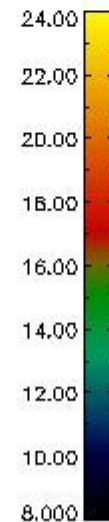
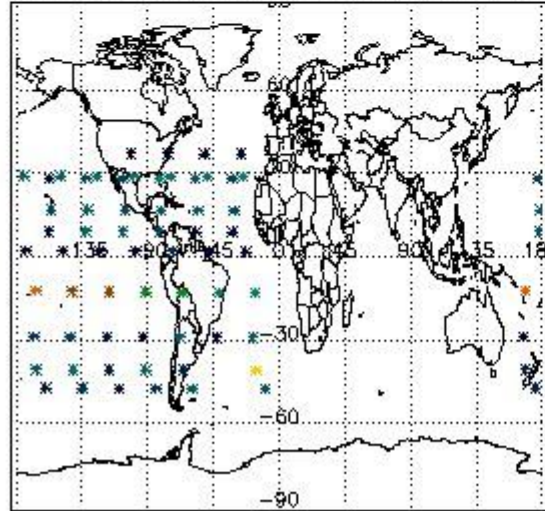
Percentage of flagged data per O3 profile



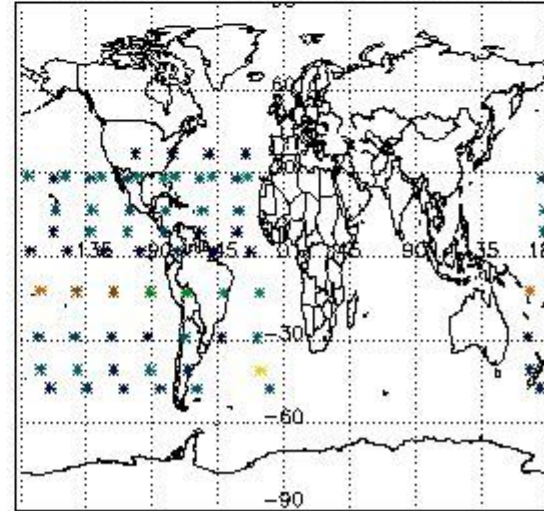
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

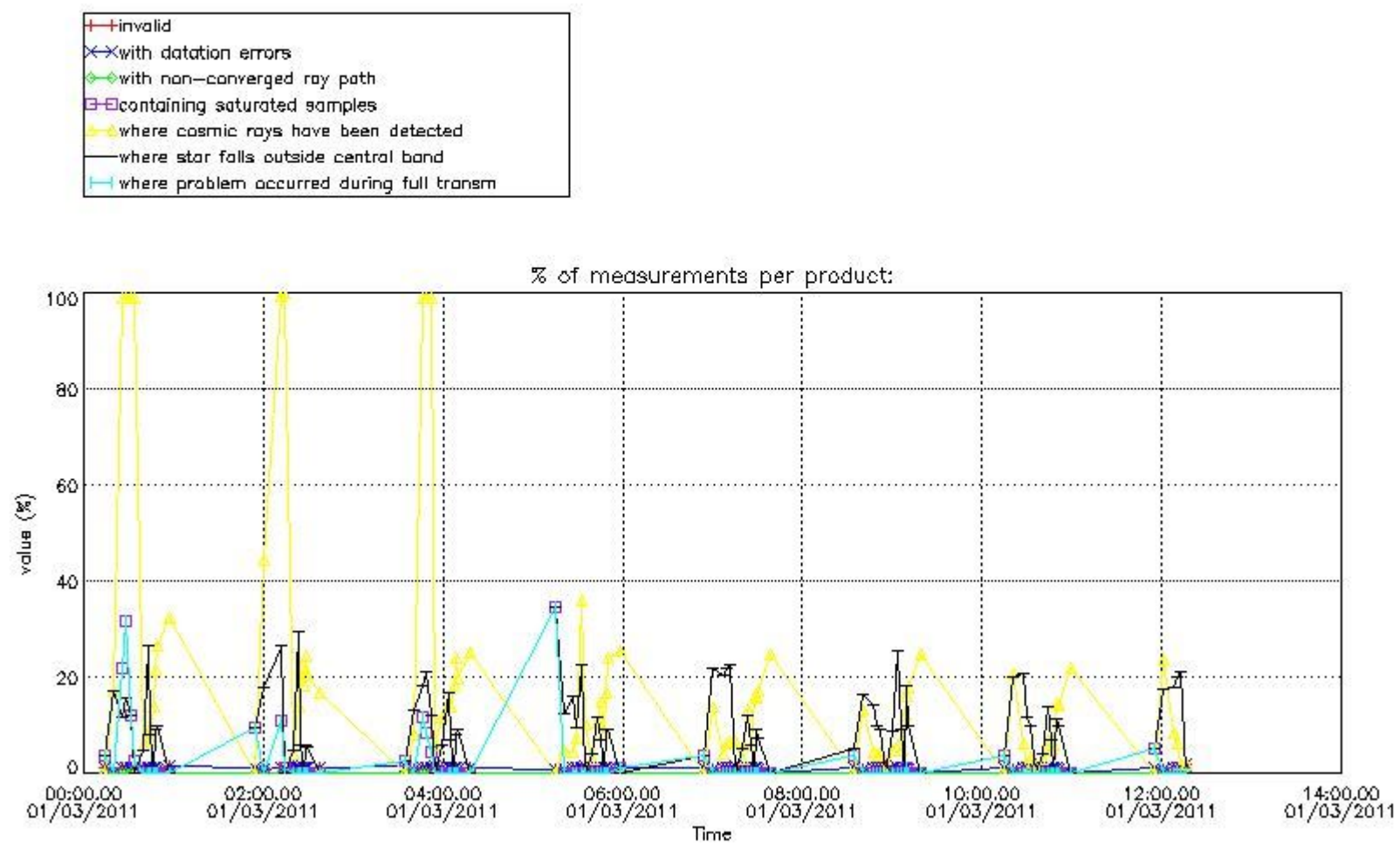


#### 4. Level 1 quality information per product

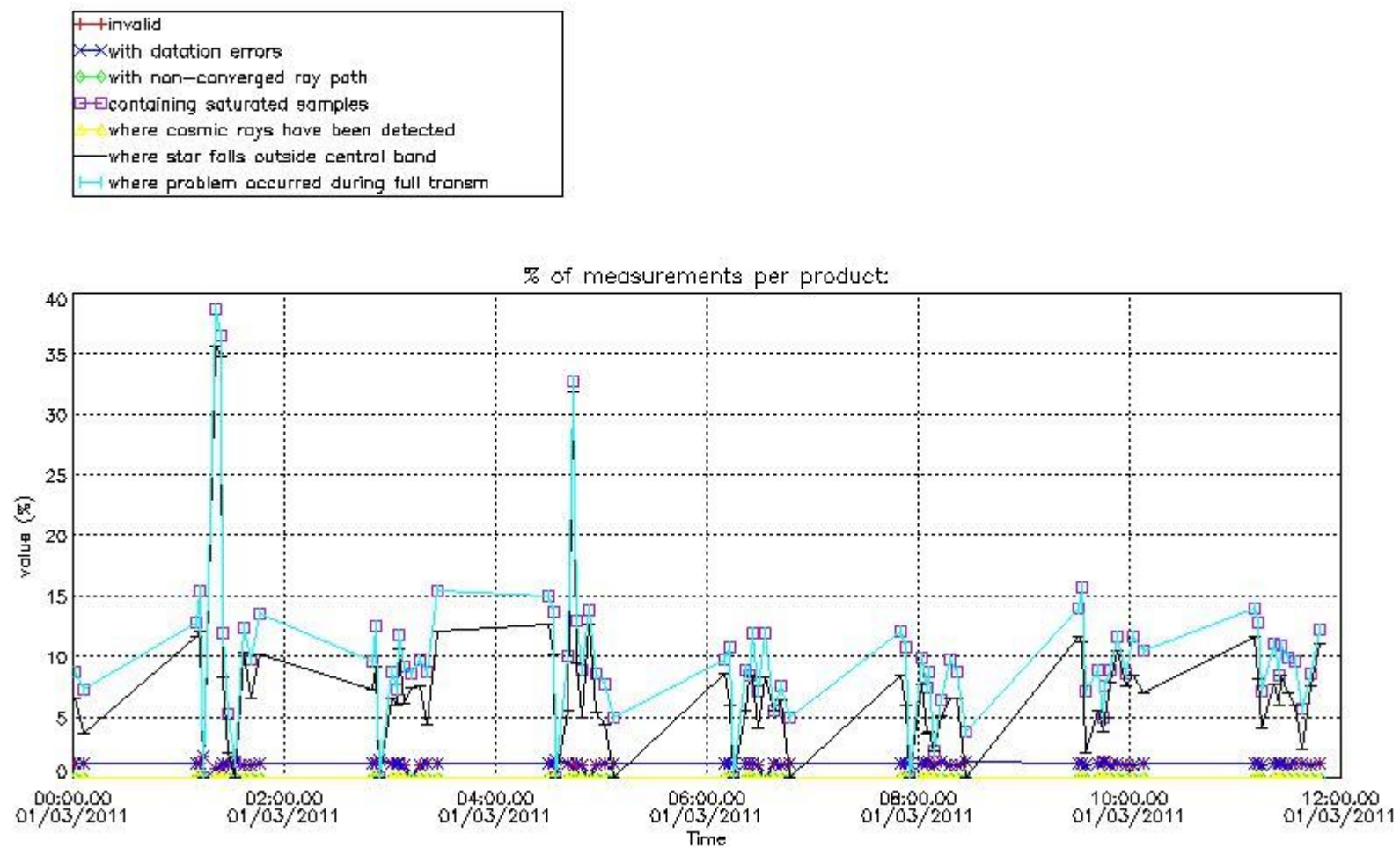
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



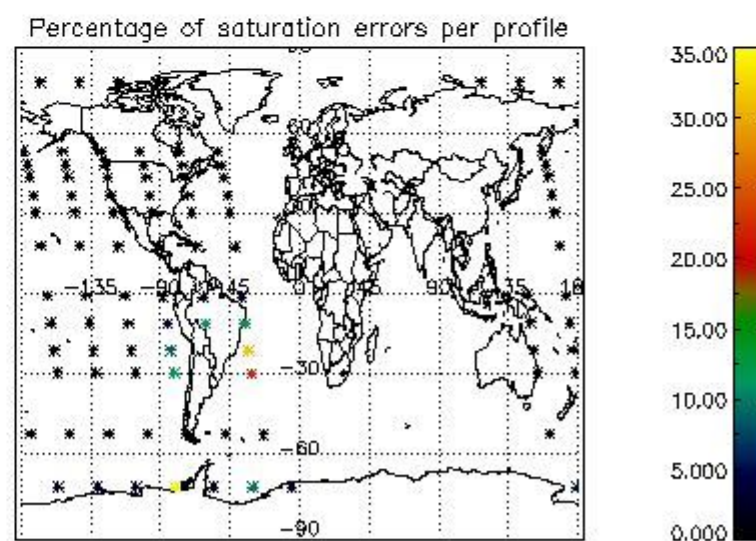
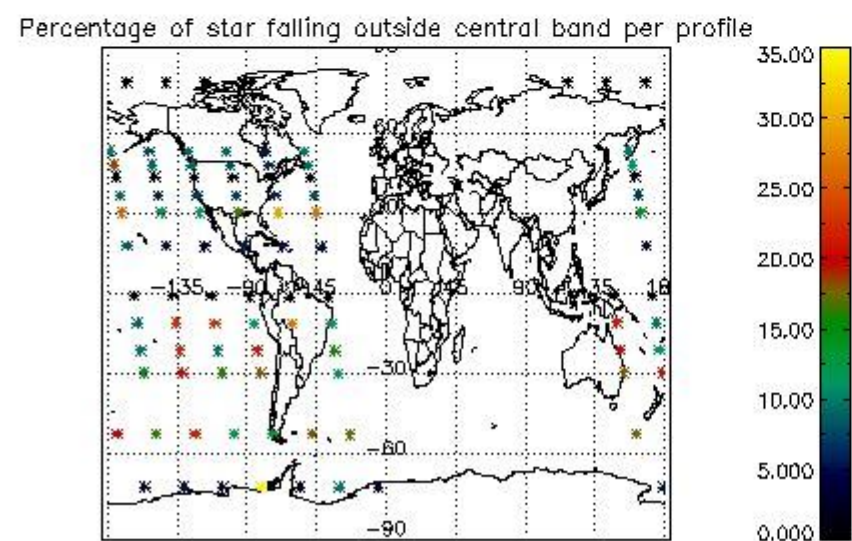
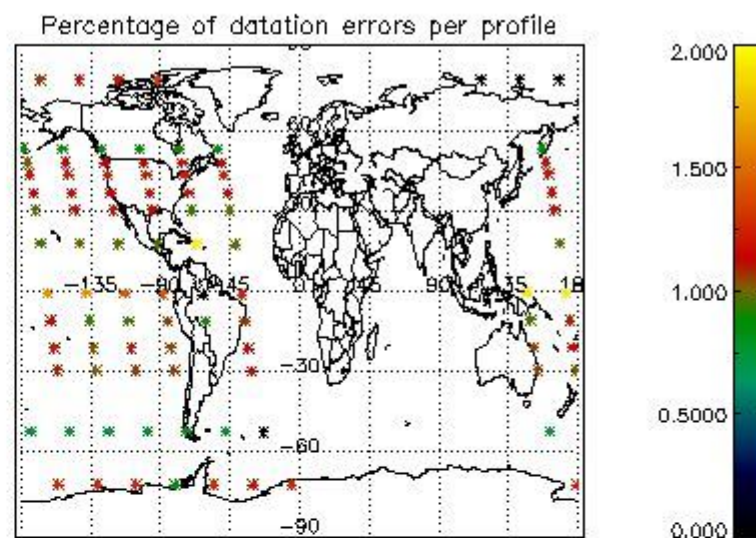
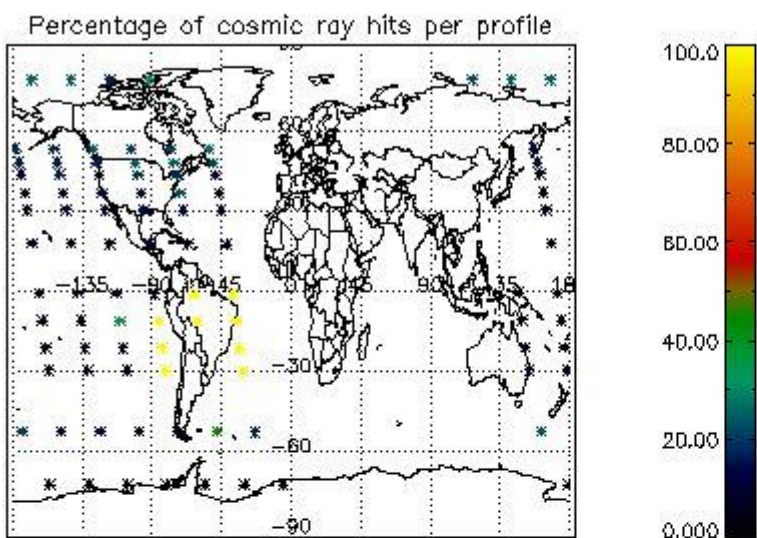
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



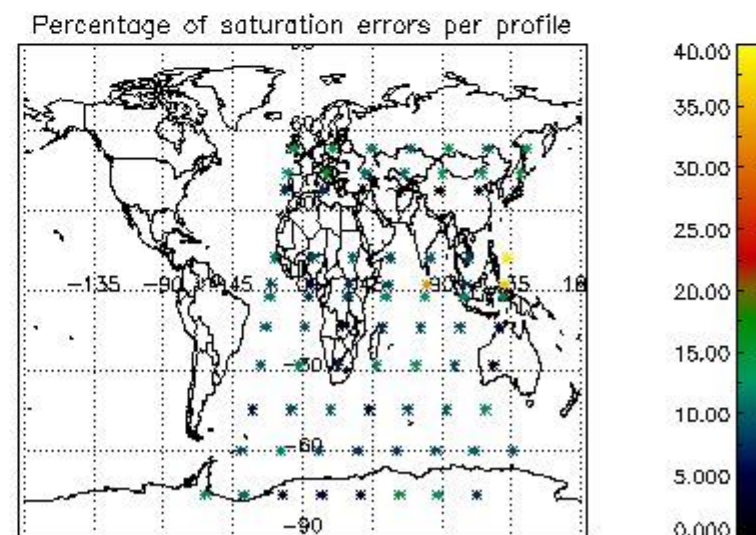
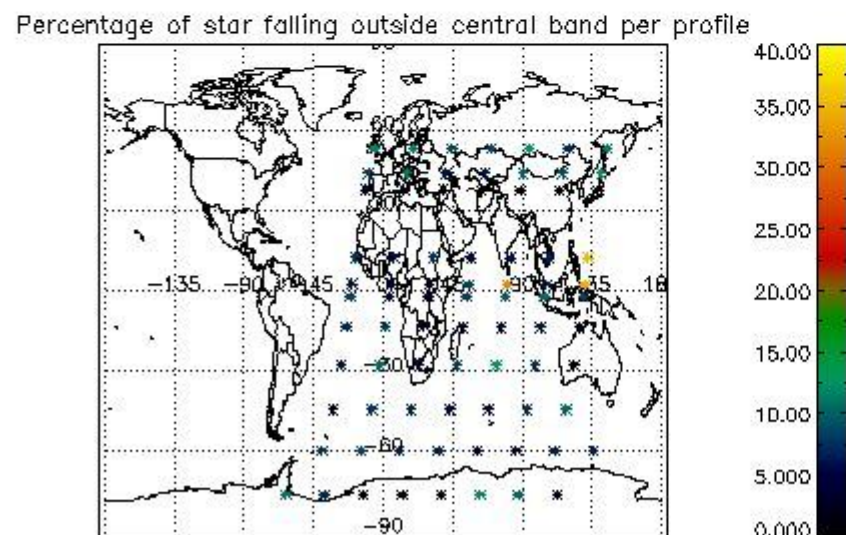
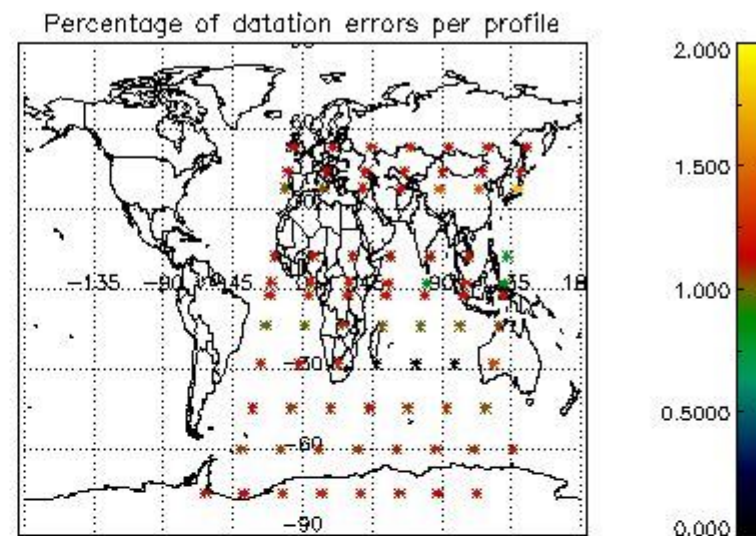
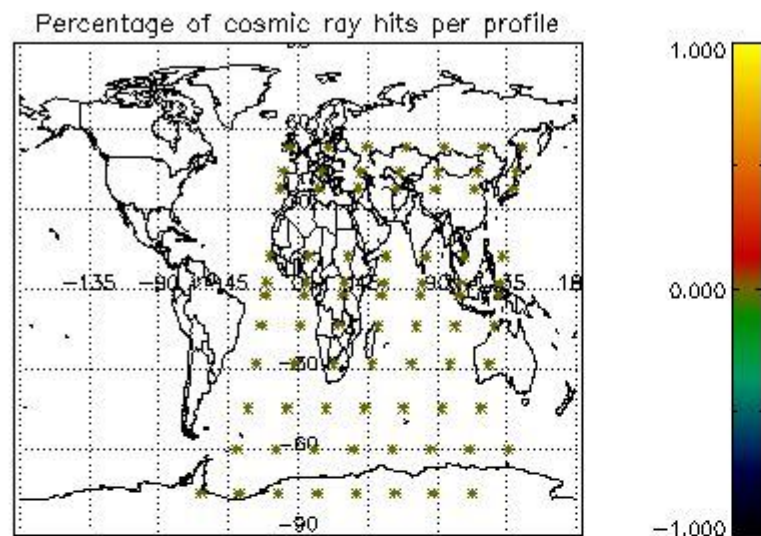
*4.2 Plot quality information per product coming from level 1b processing (world map)*

*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

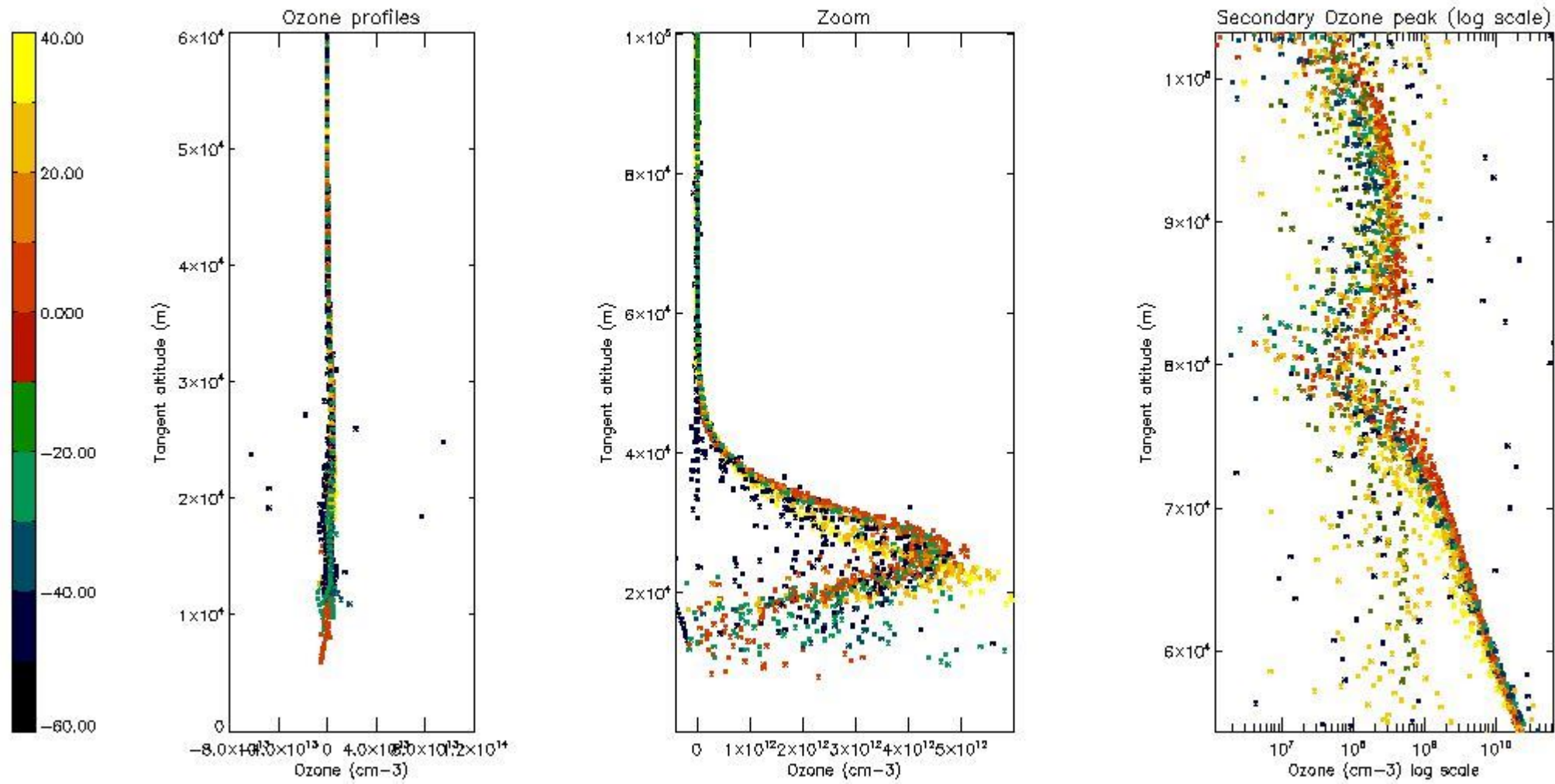
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	40
STD < 20	18

STD < 10	15
STD < 5	10

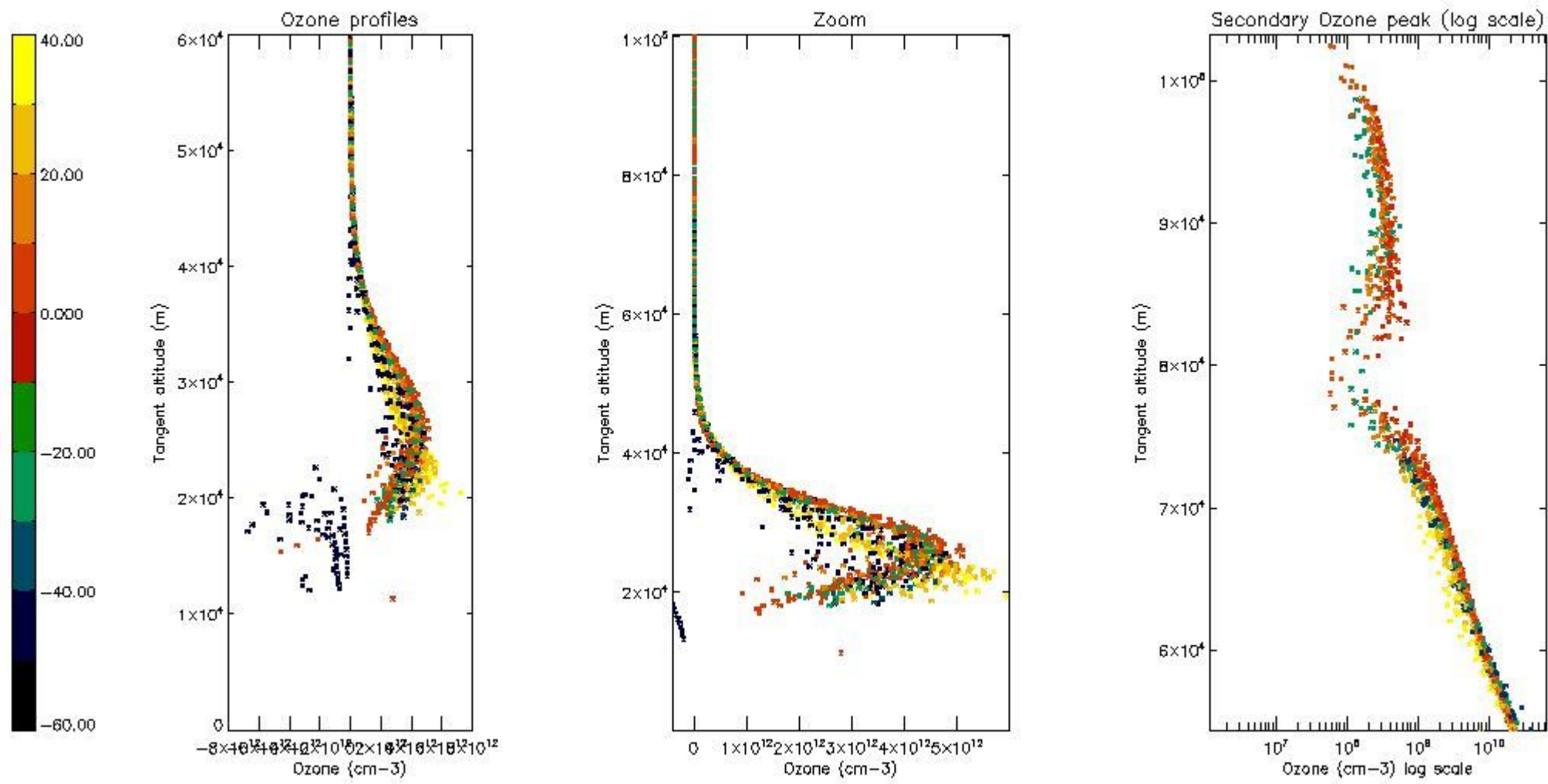
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



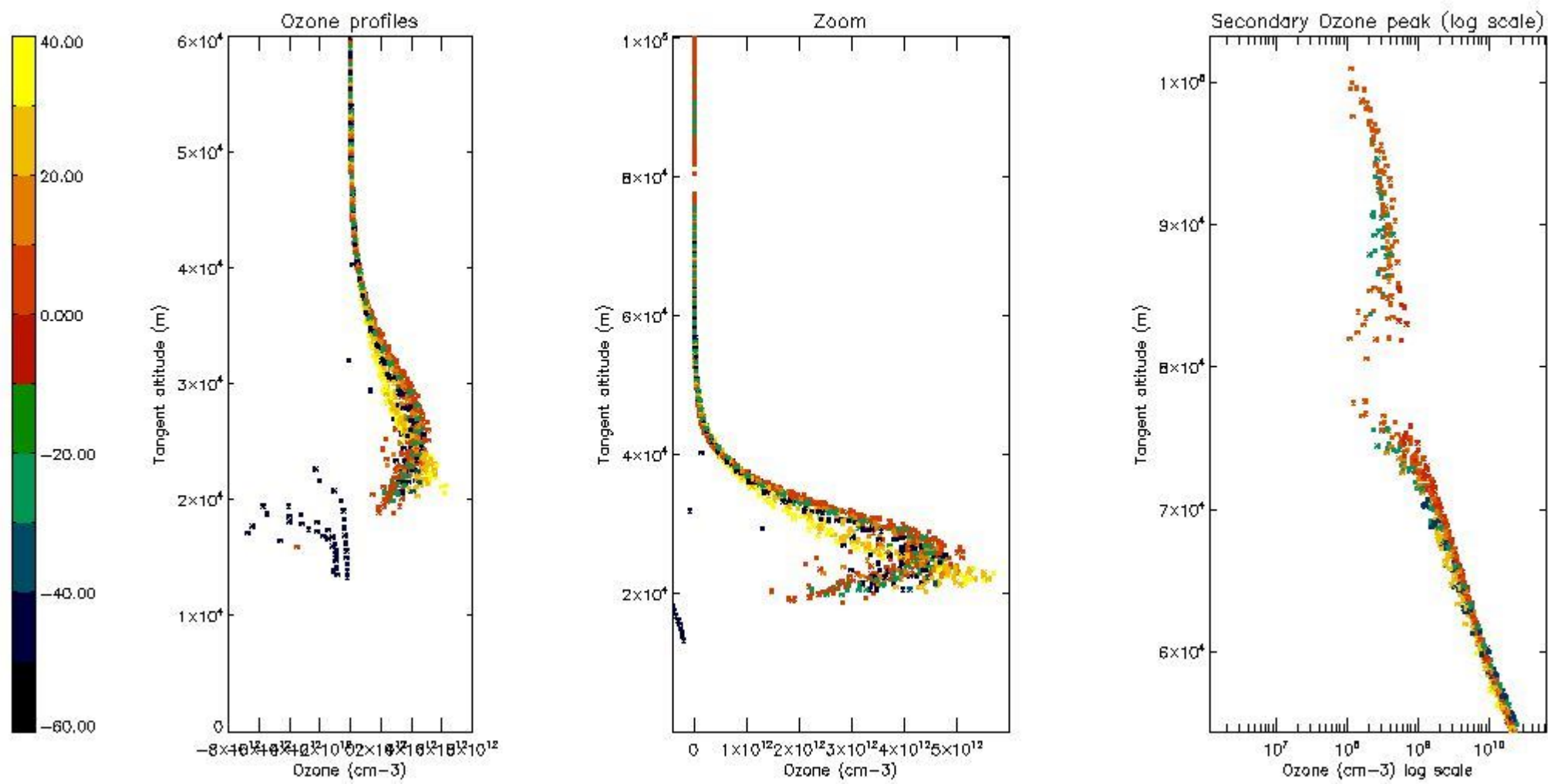
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



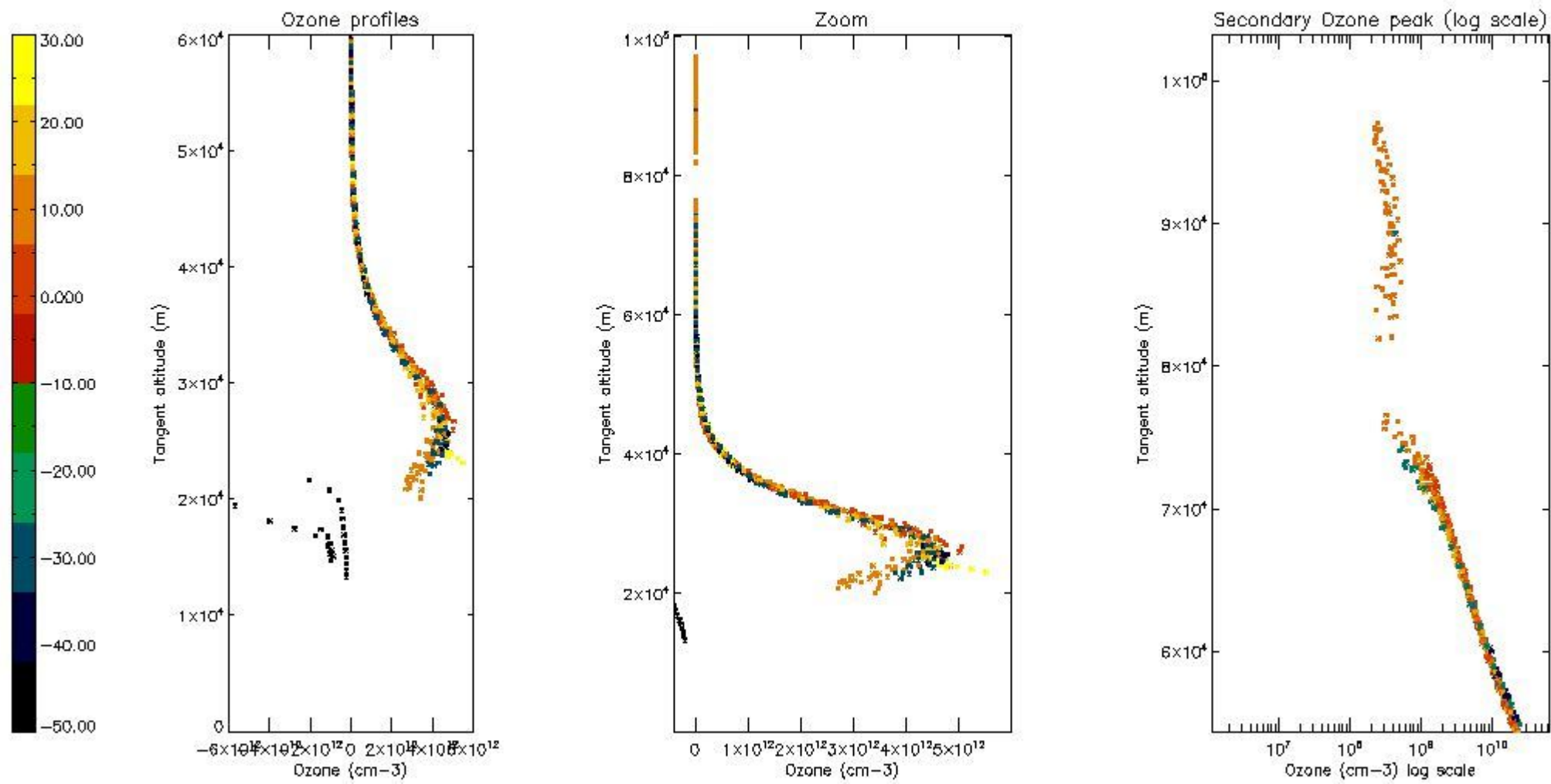
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



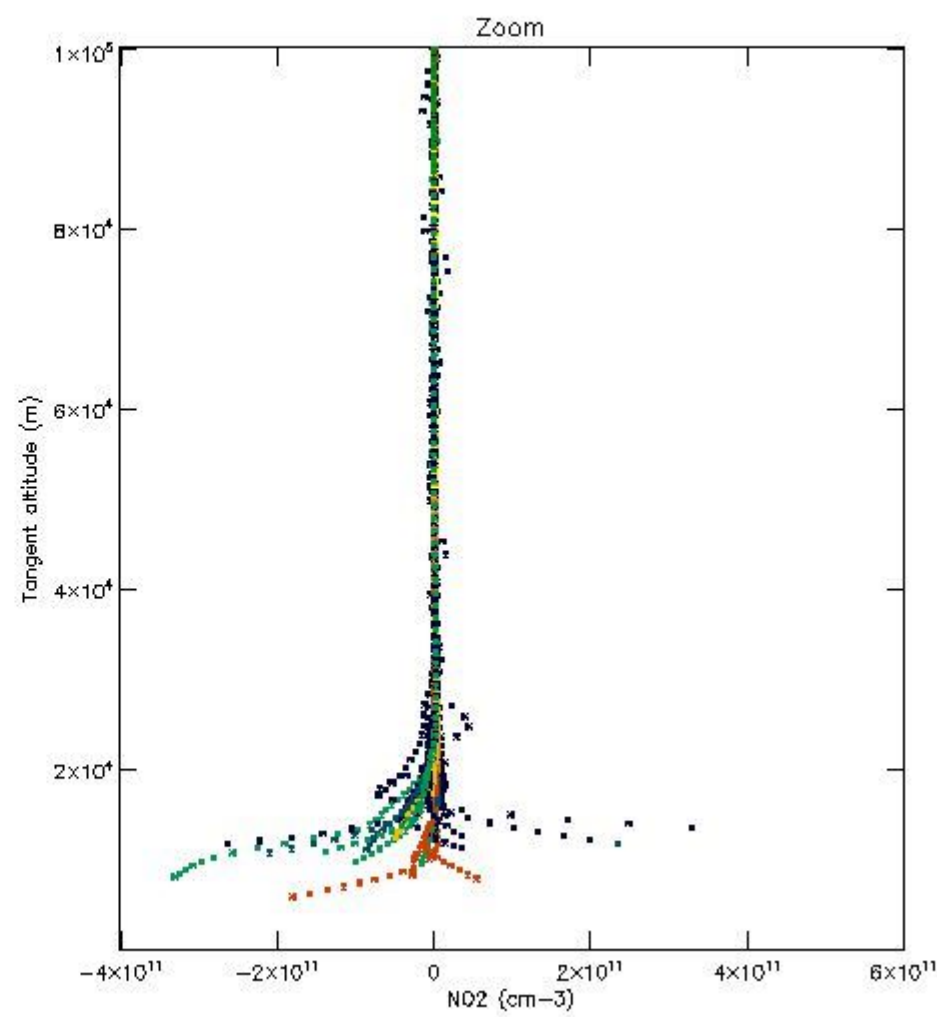
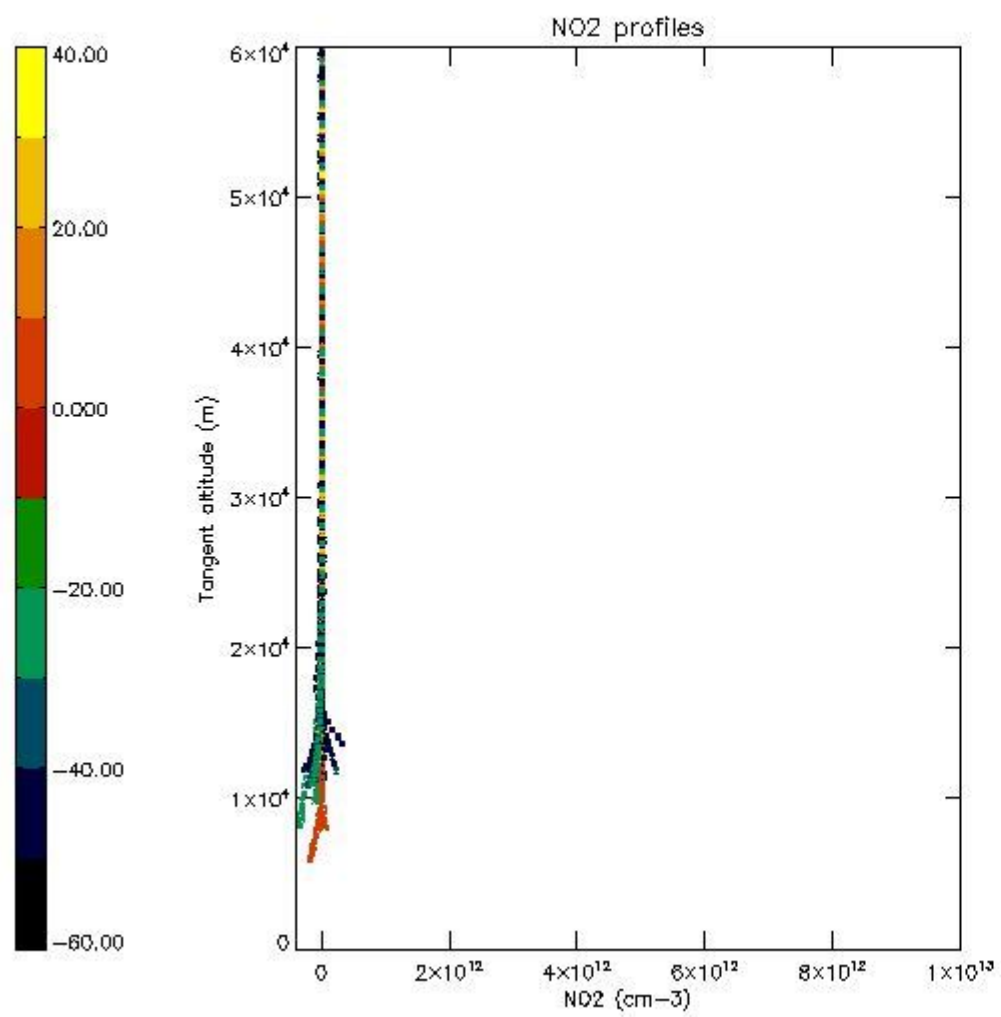
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



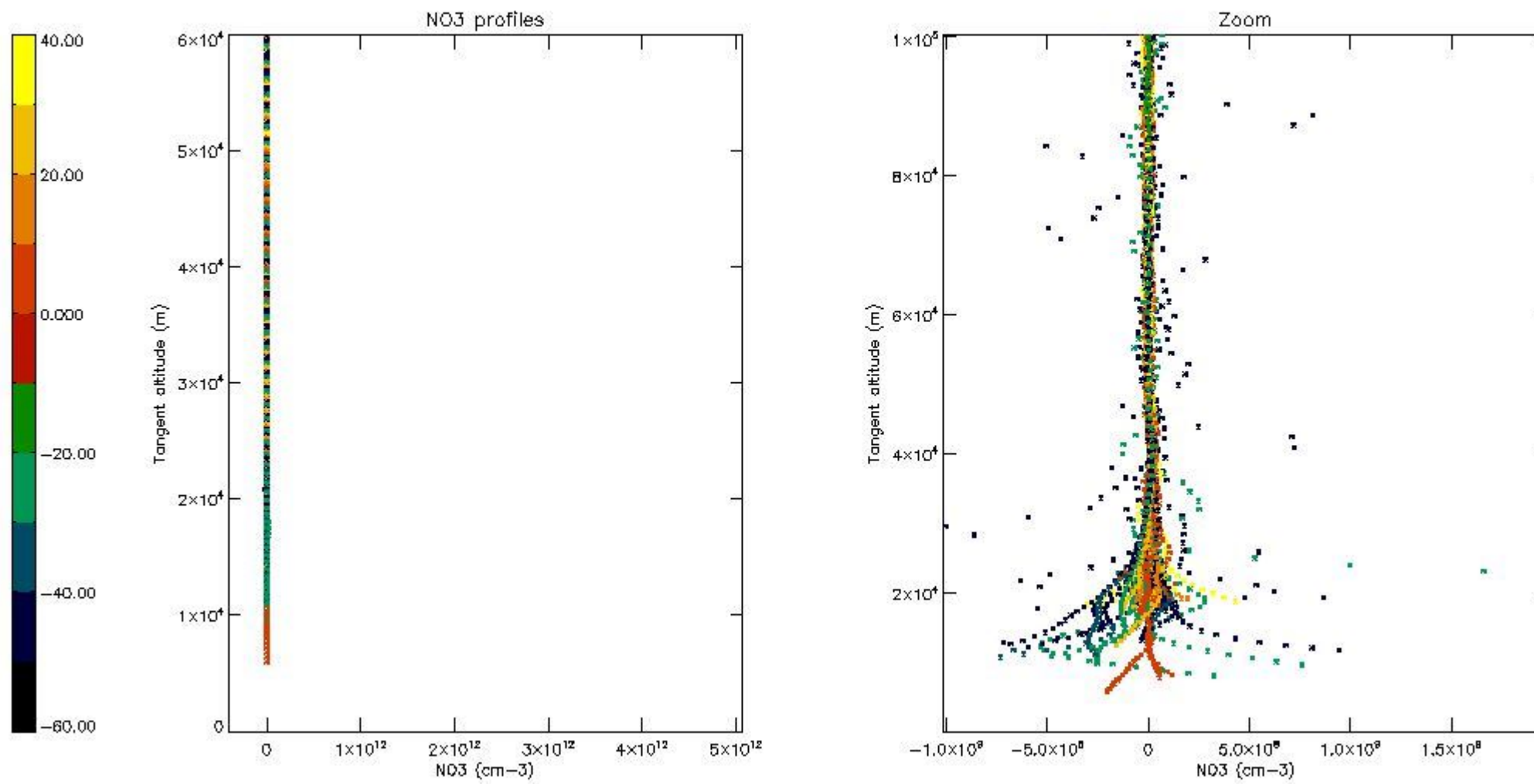
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

The colorbar represents the latitude.

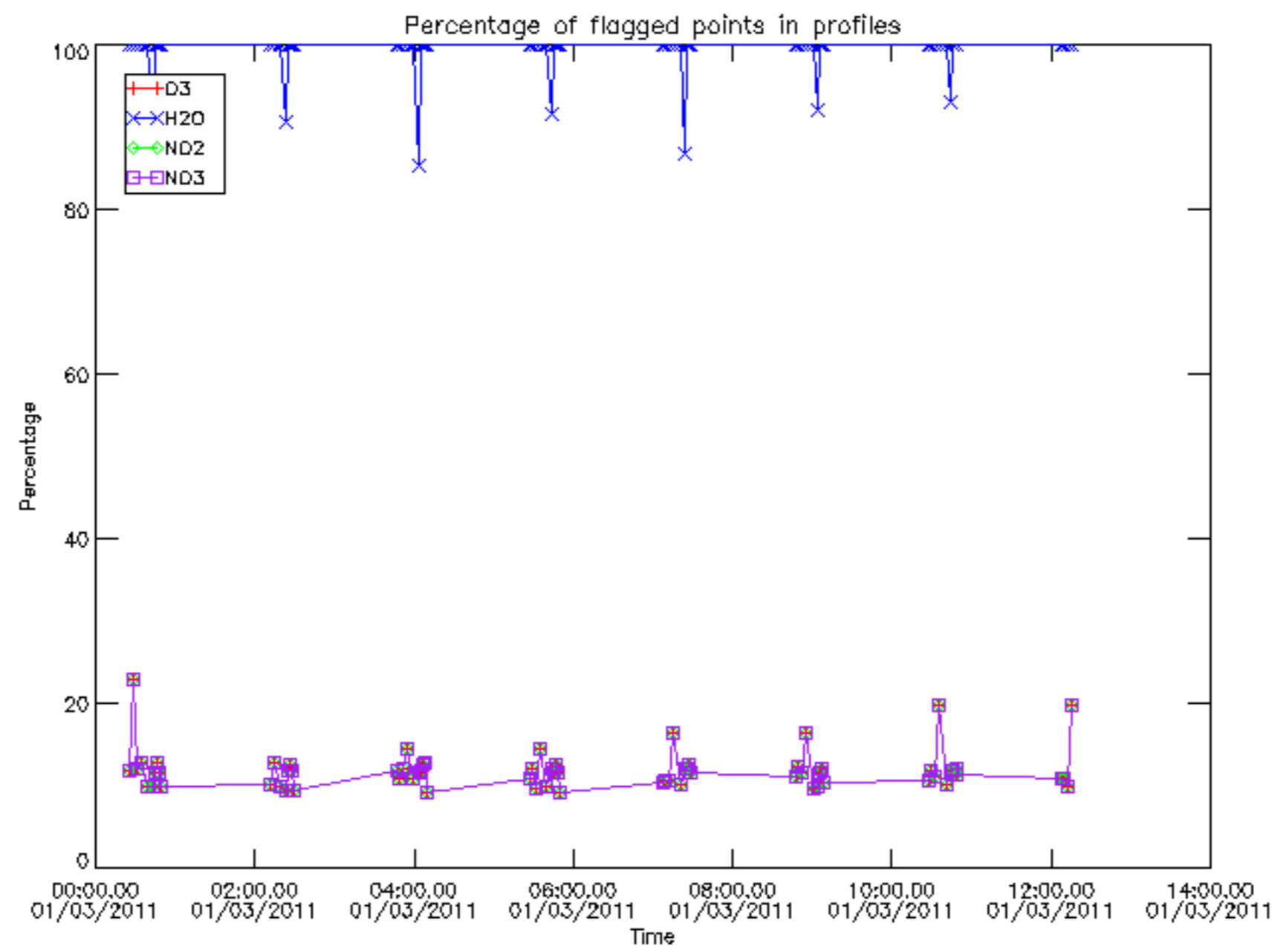


## 6. Auxiliary Data Files used for the production reported in section 2

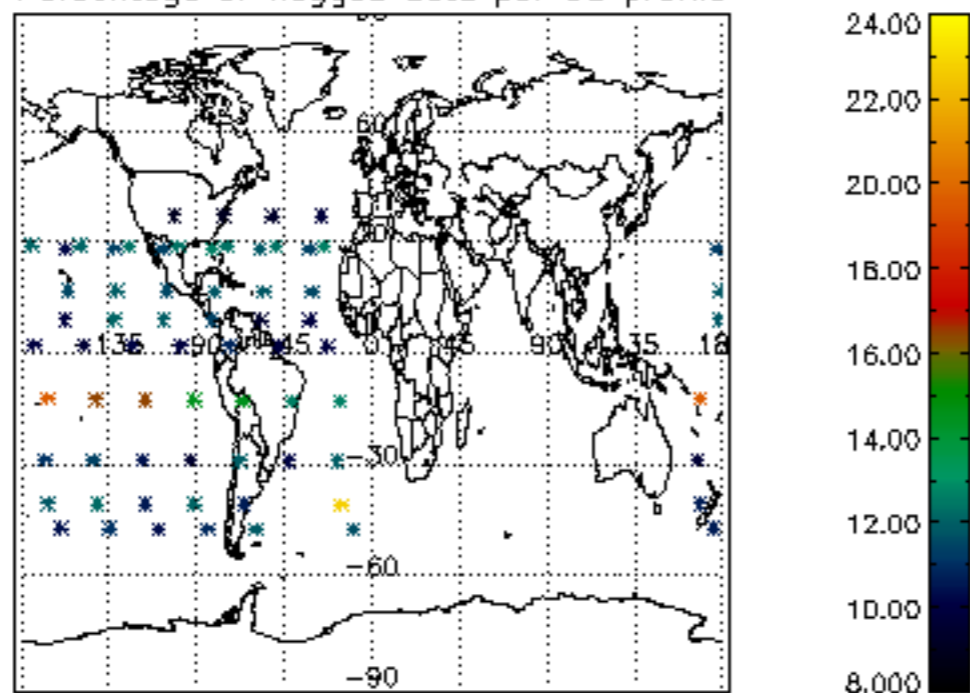
The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	01-MAR-2011 00:01:02
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	01-MAR-2011 00:01:02
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	01-MAR-2011 00:01:02

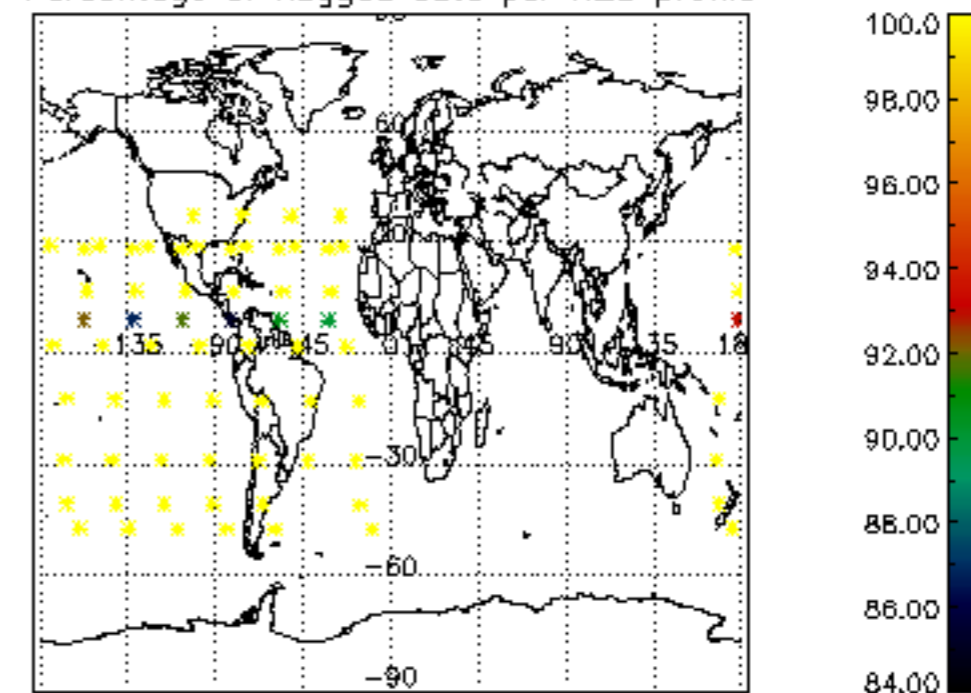




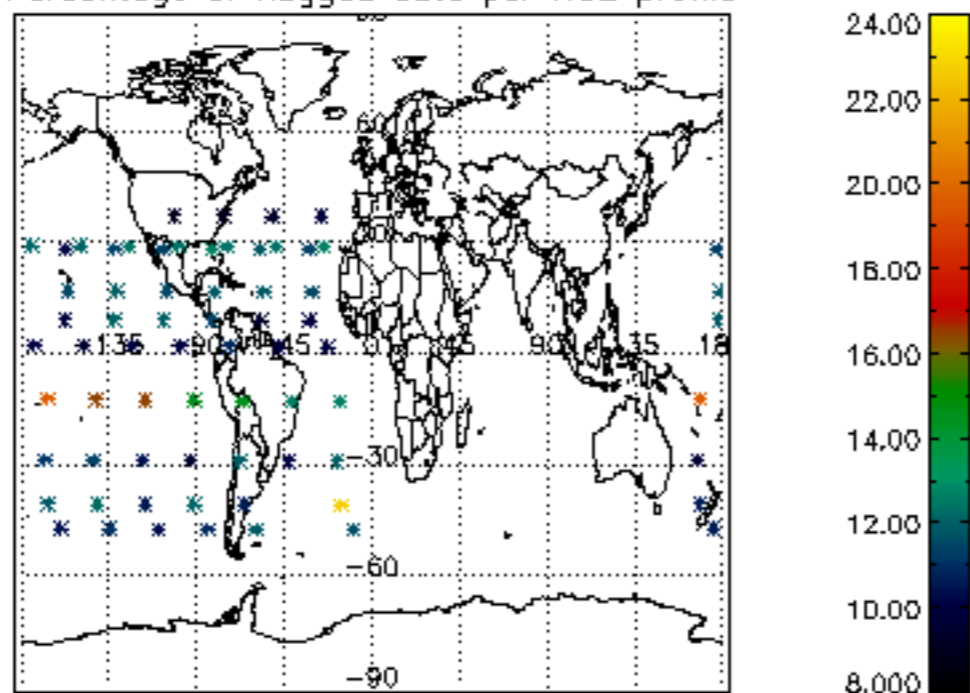
Percentage of flagged data per D3 profile



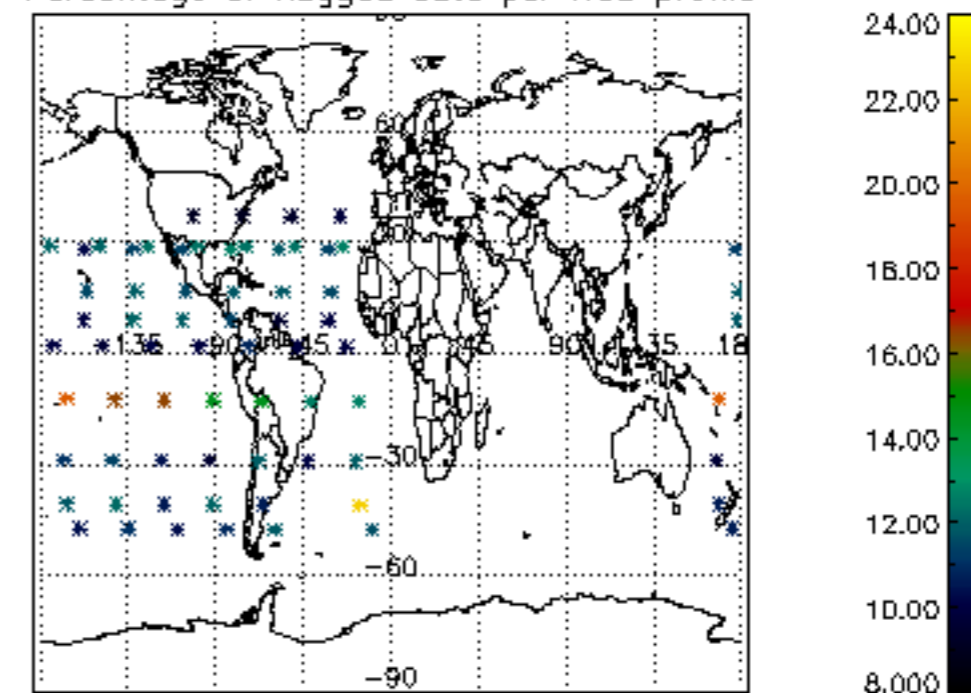
Percentage of flagged data per H2O profile

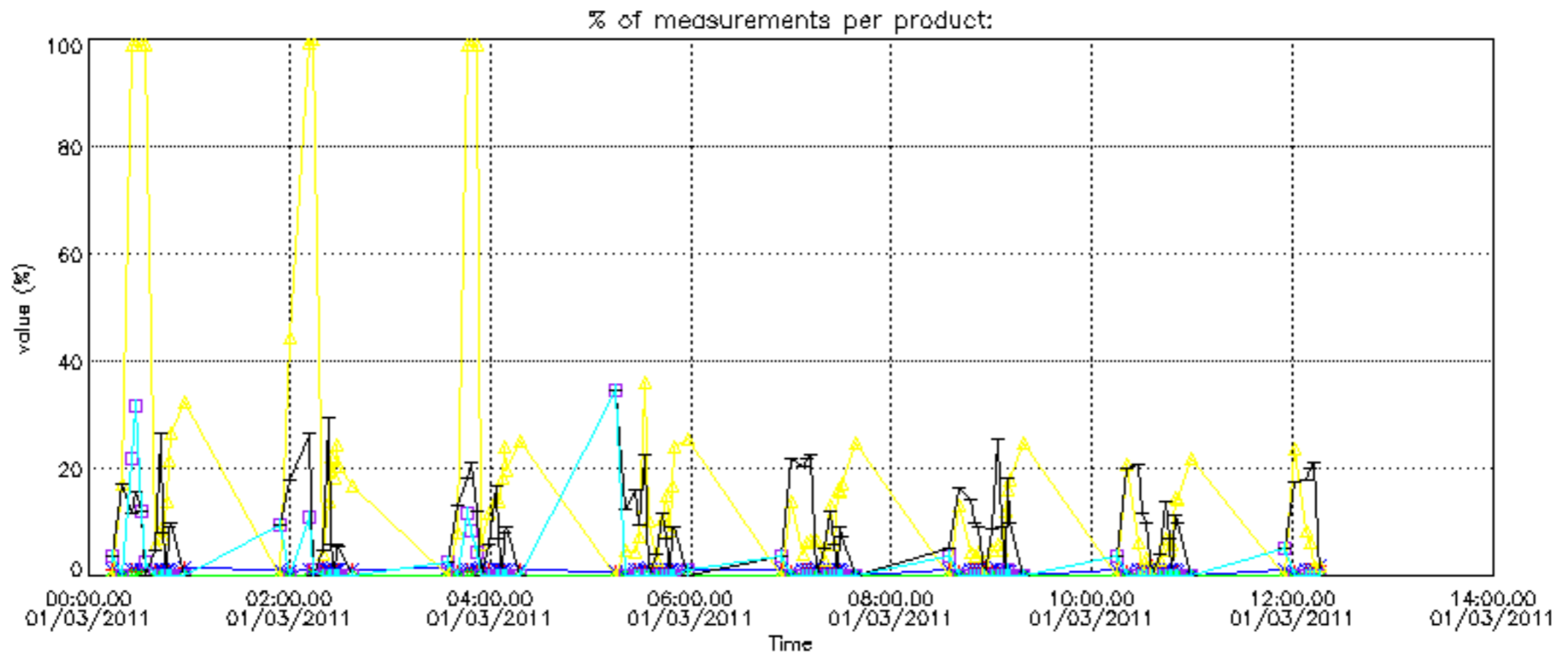


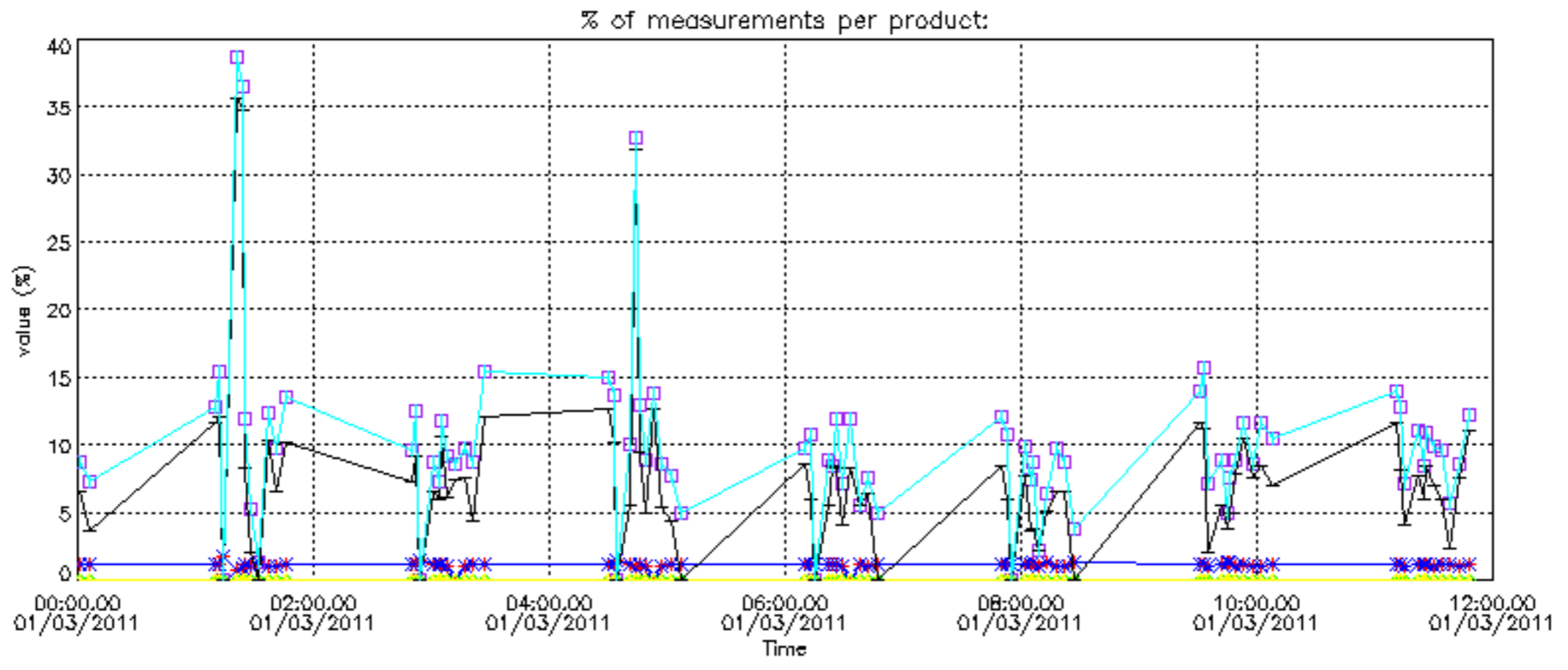
Percentage of flagged data per NO2 profile



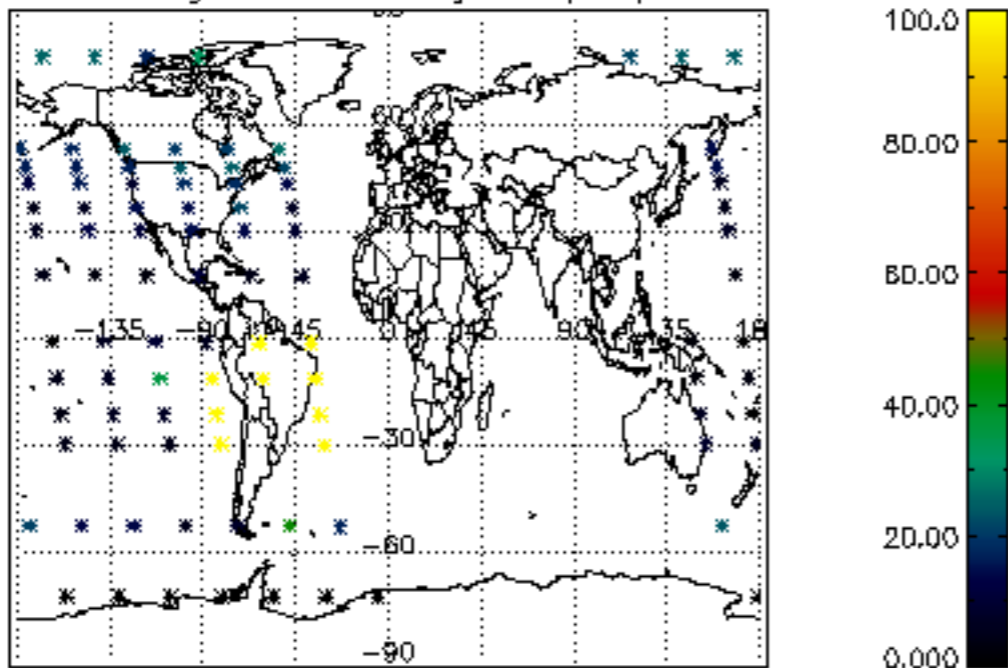
Percentage of flagged data per NO3 profile



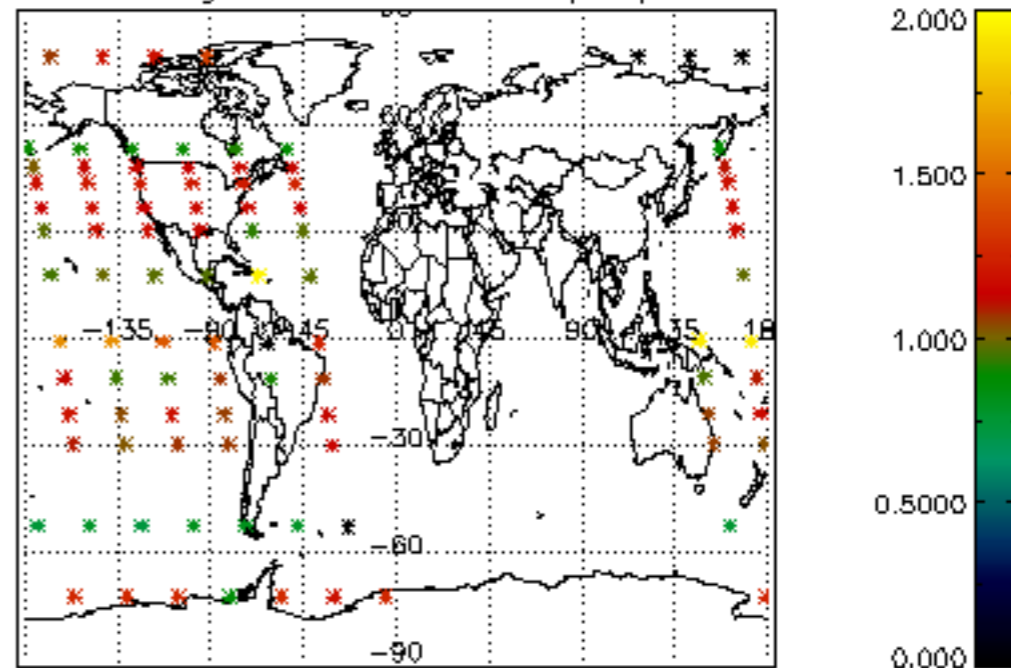




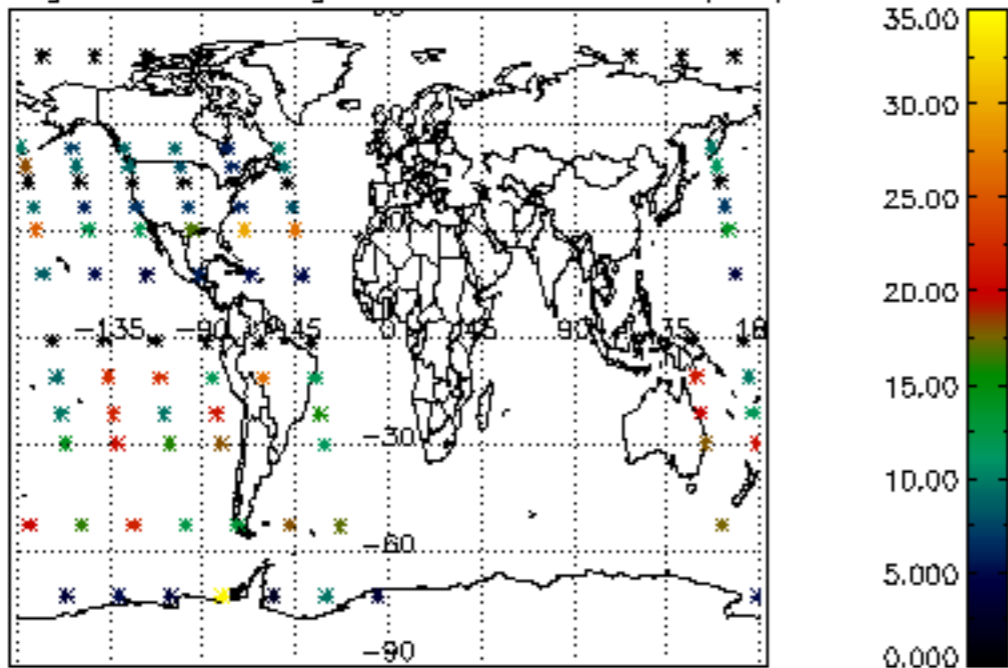
Percentage of cosmic ray hits per profile



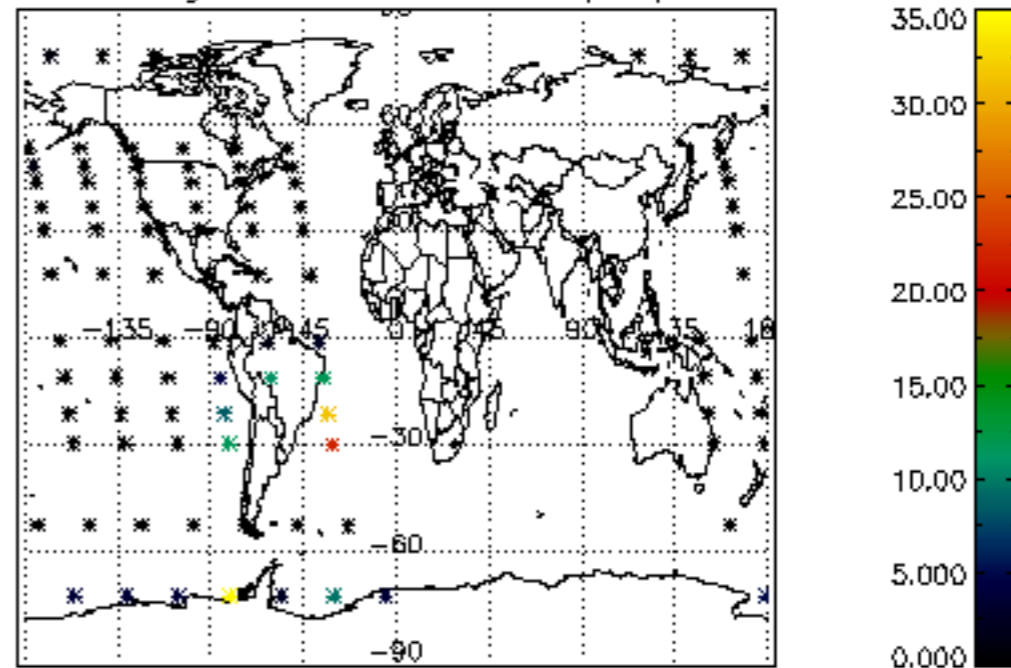
Percentage of datation errors per profile



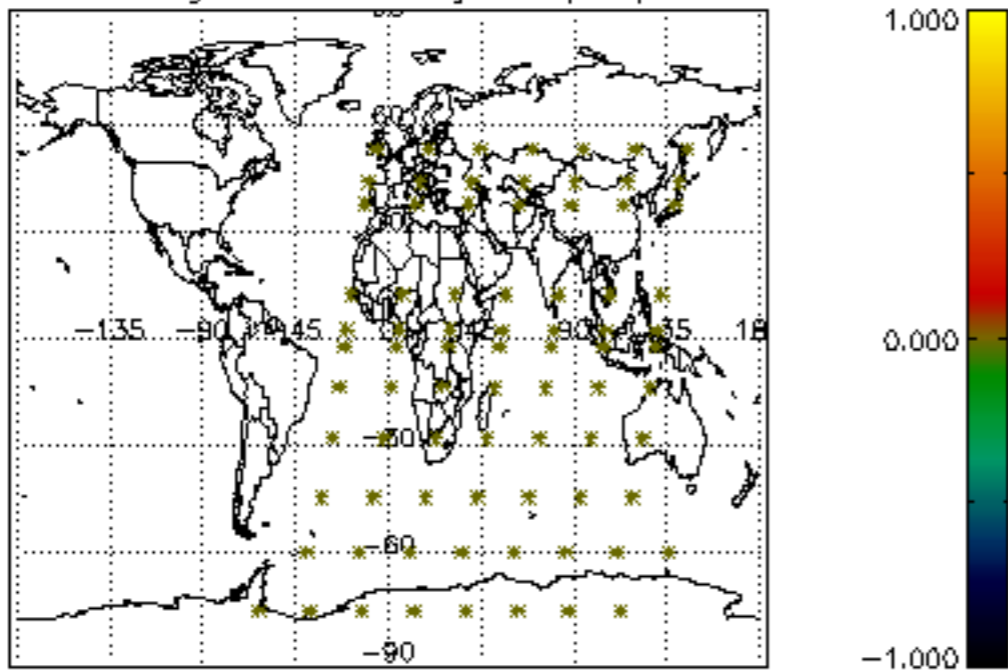
Percentage of star falling outside central band per profile



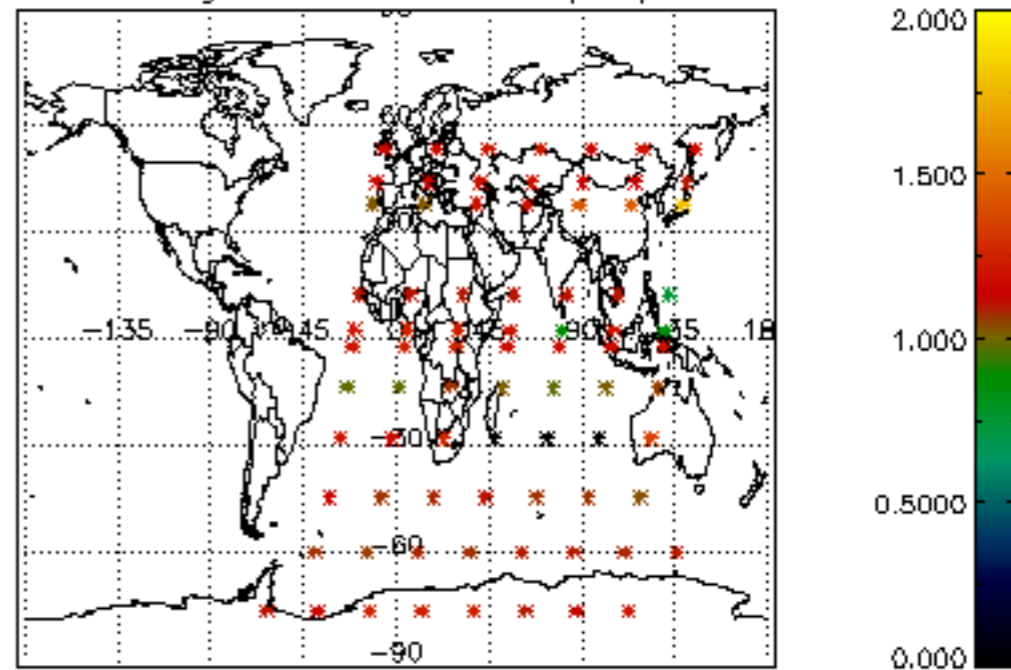
Percentage of saturation errors per profile



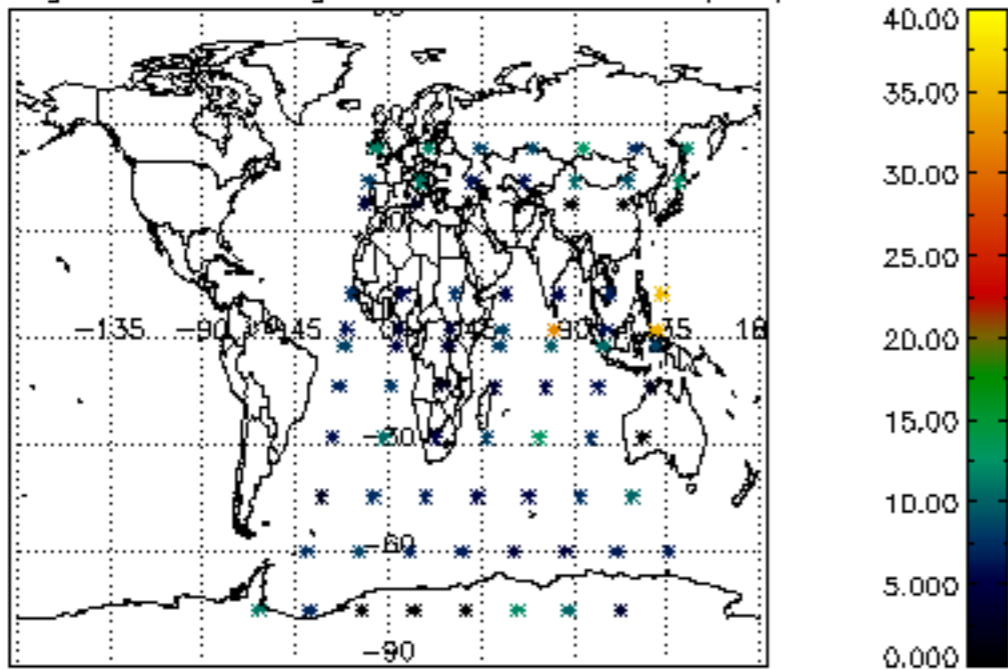
Percentage of cosmic ray hits per profile



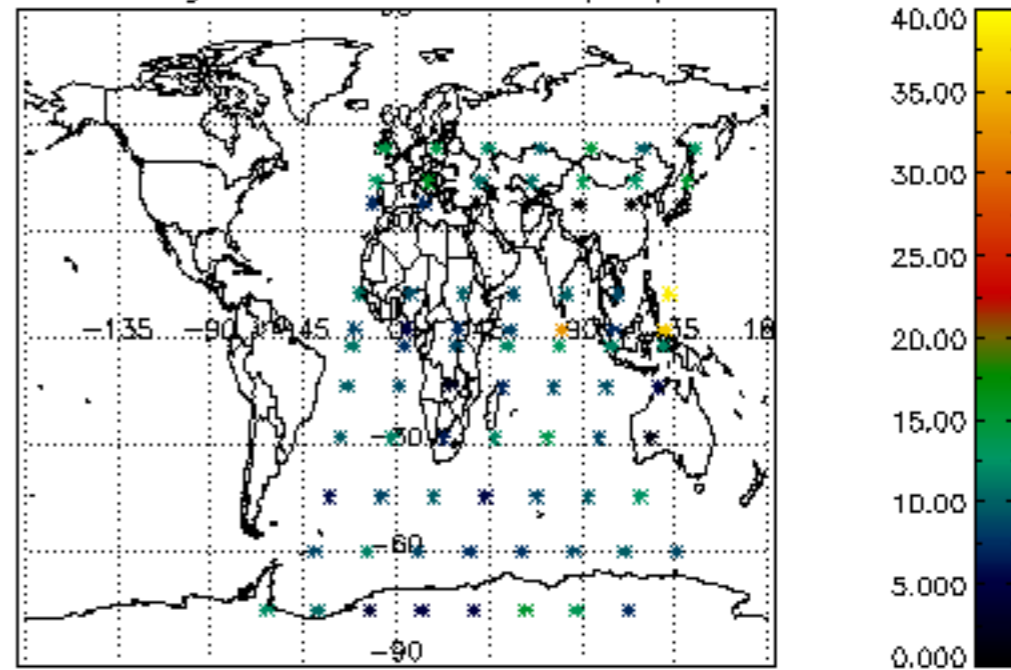
Percentage of datation errors per profile

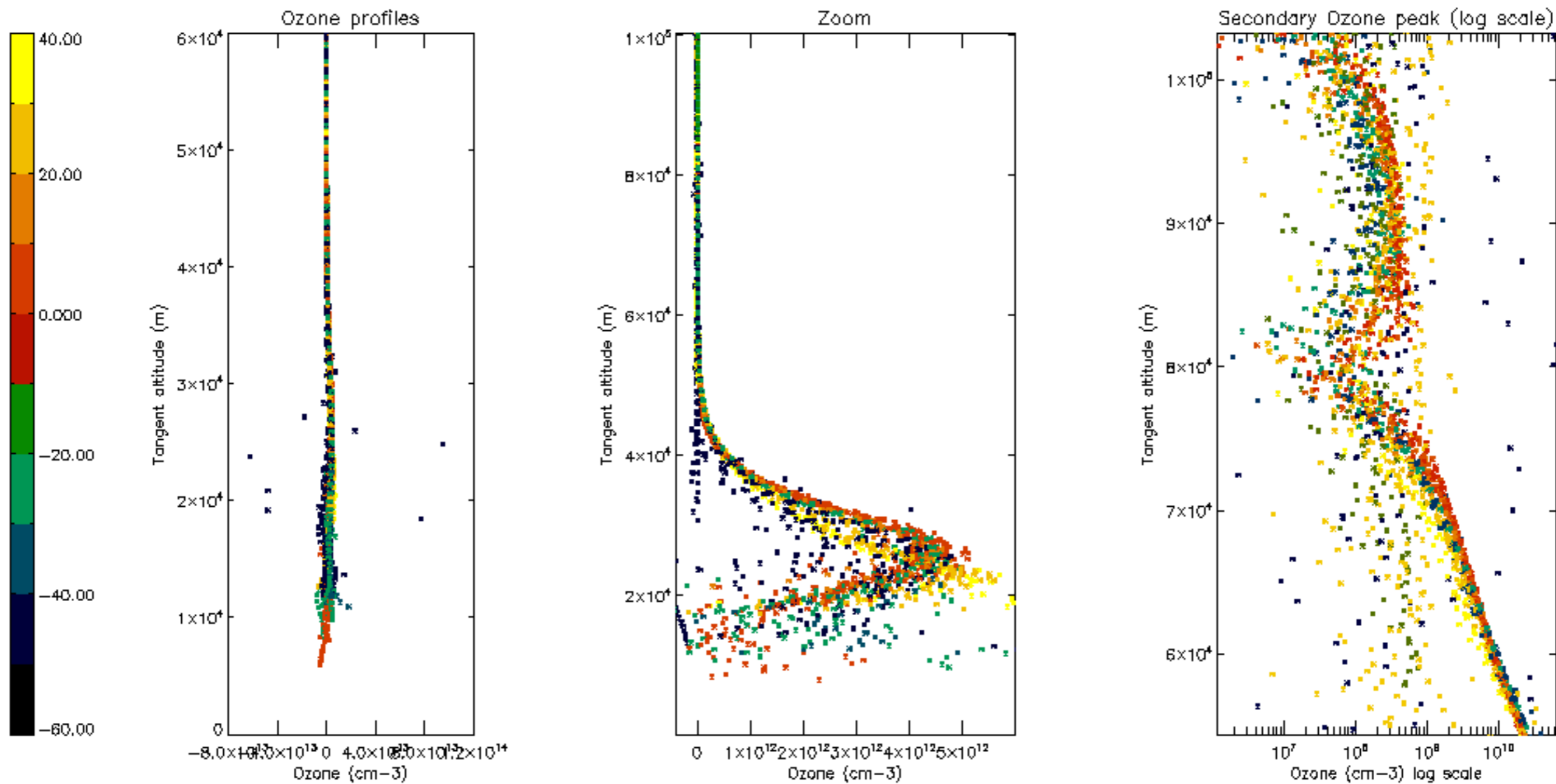


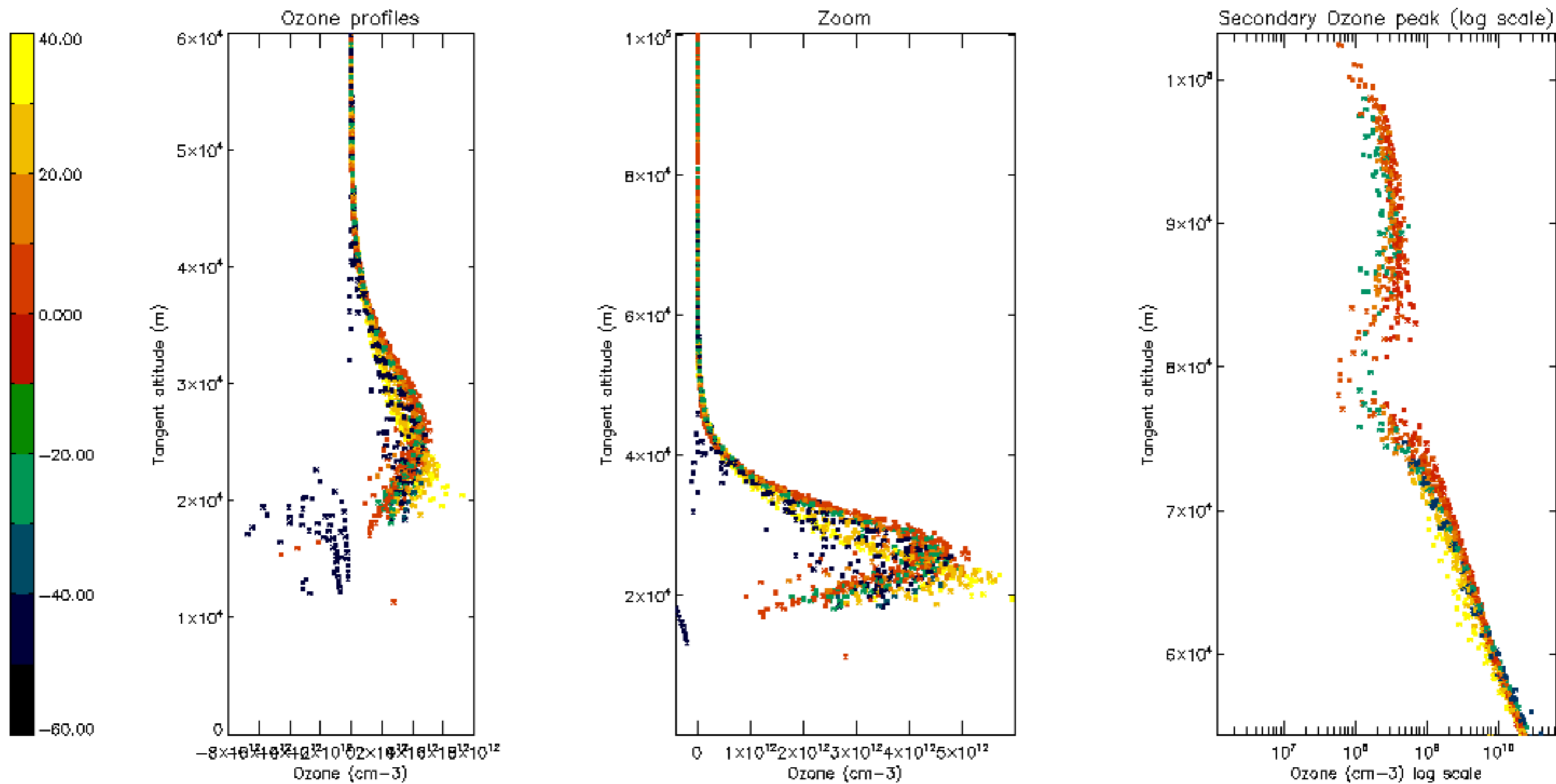
Percentage of star falling outside central band per profile



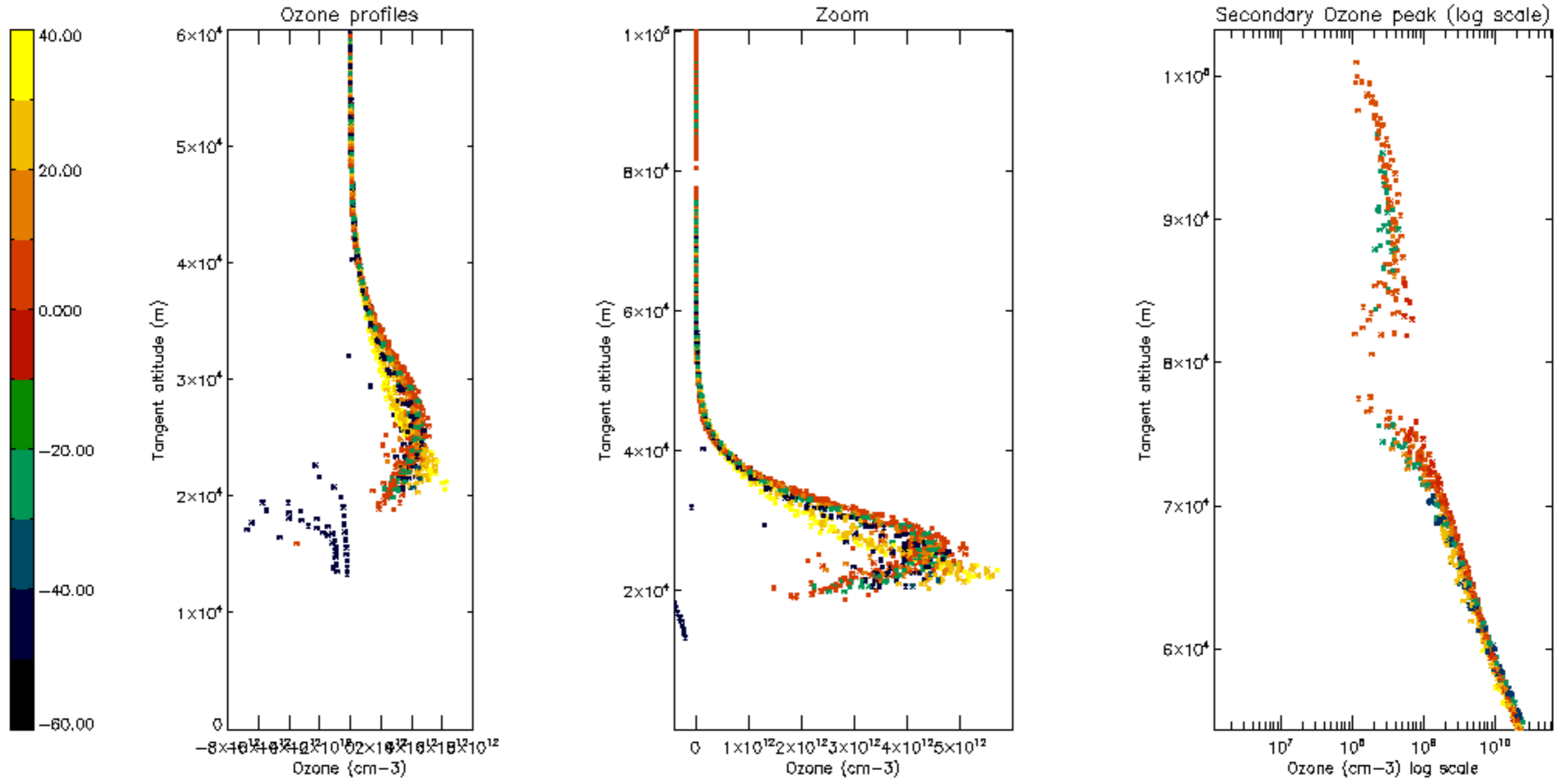
Percentage of saturation errors per profile

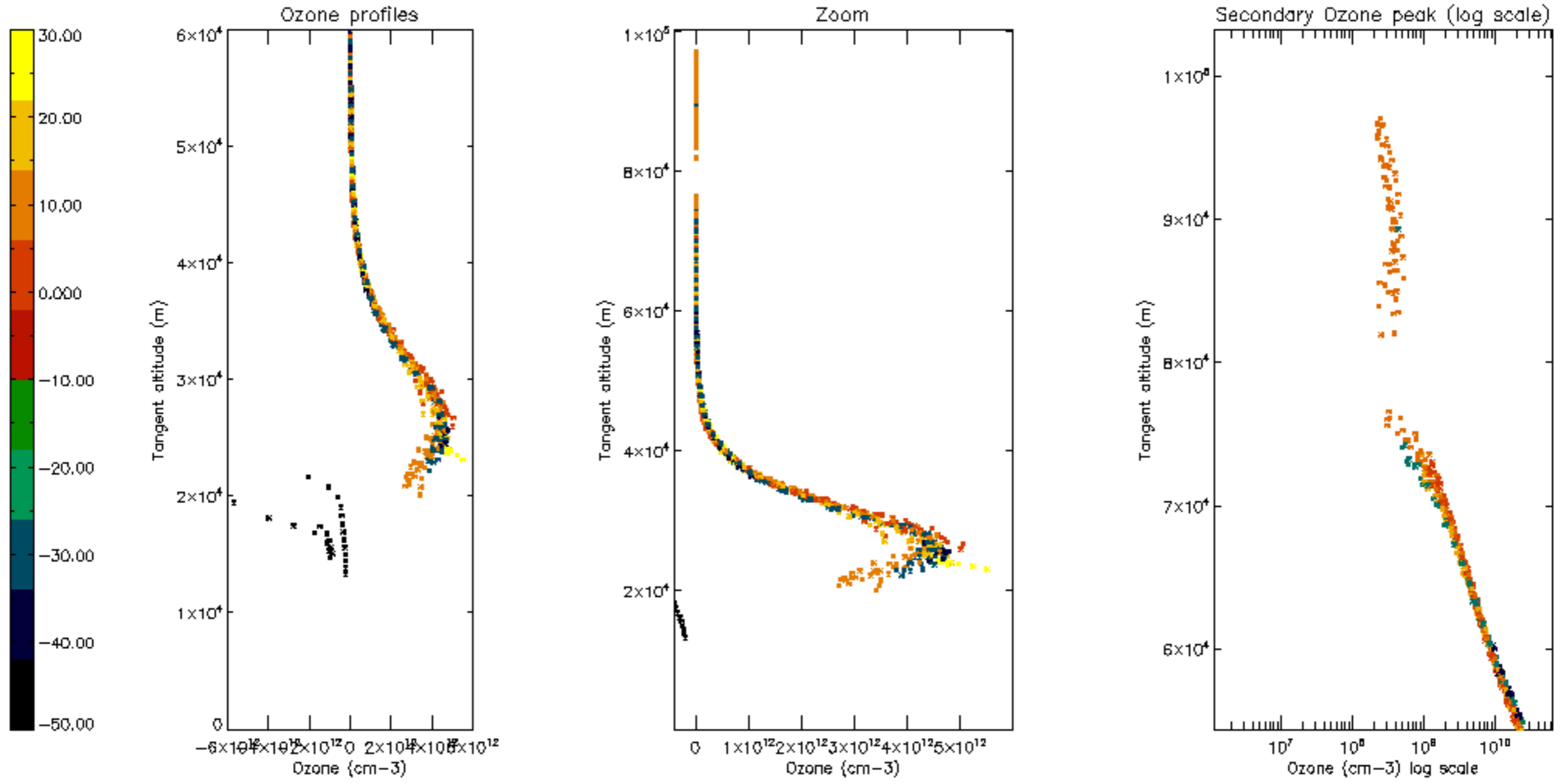


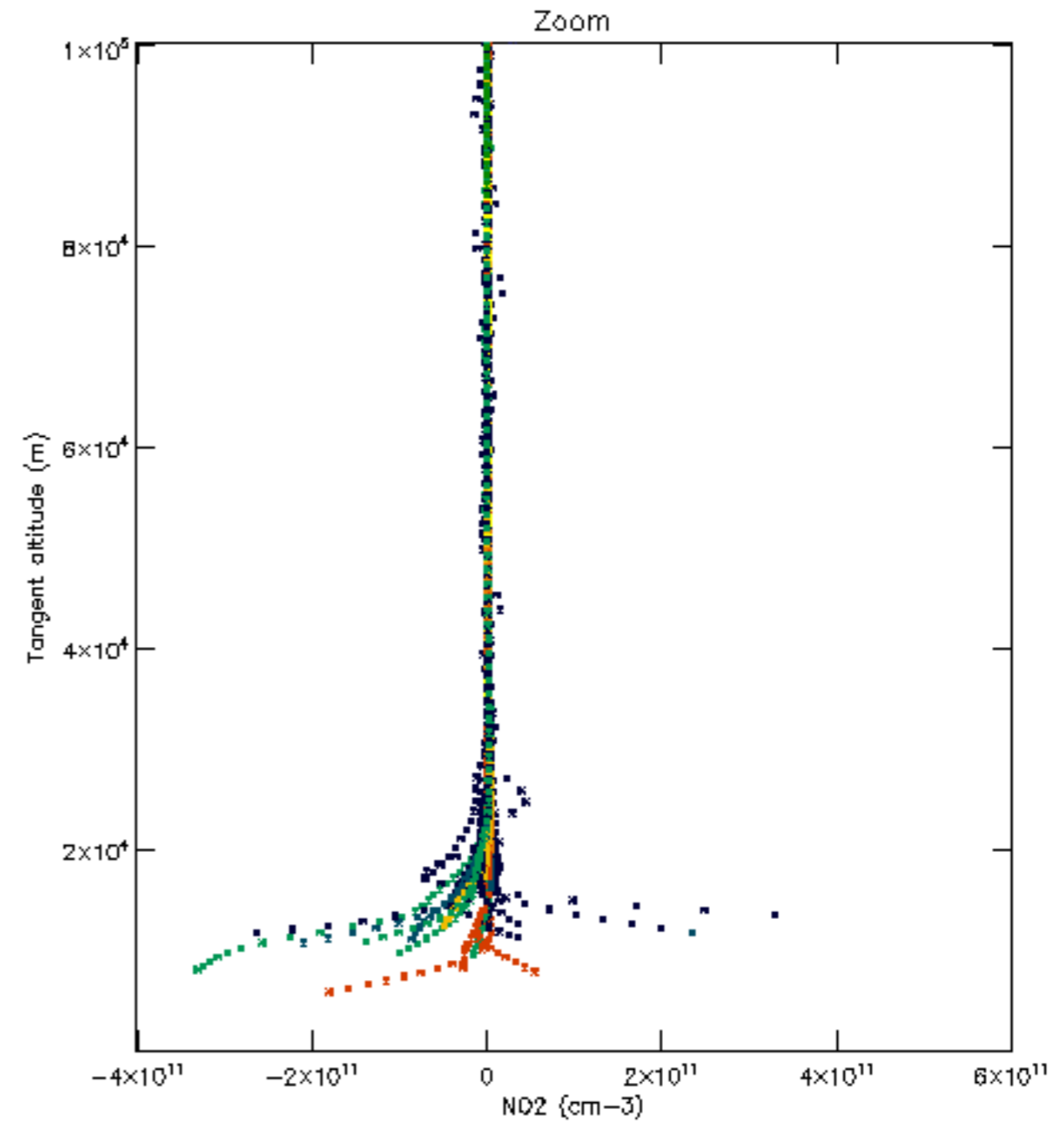
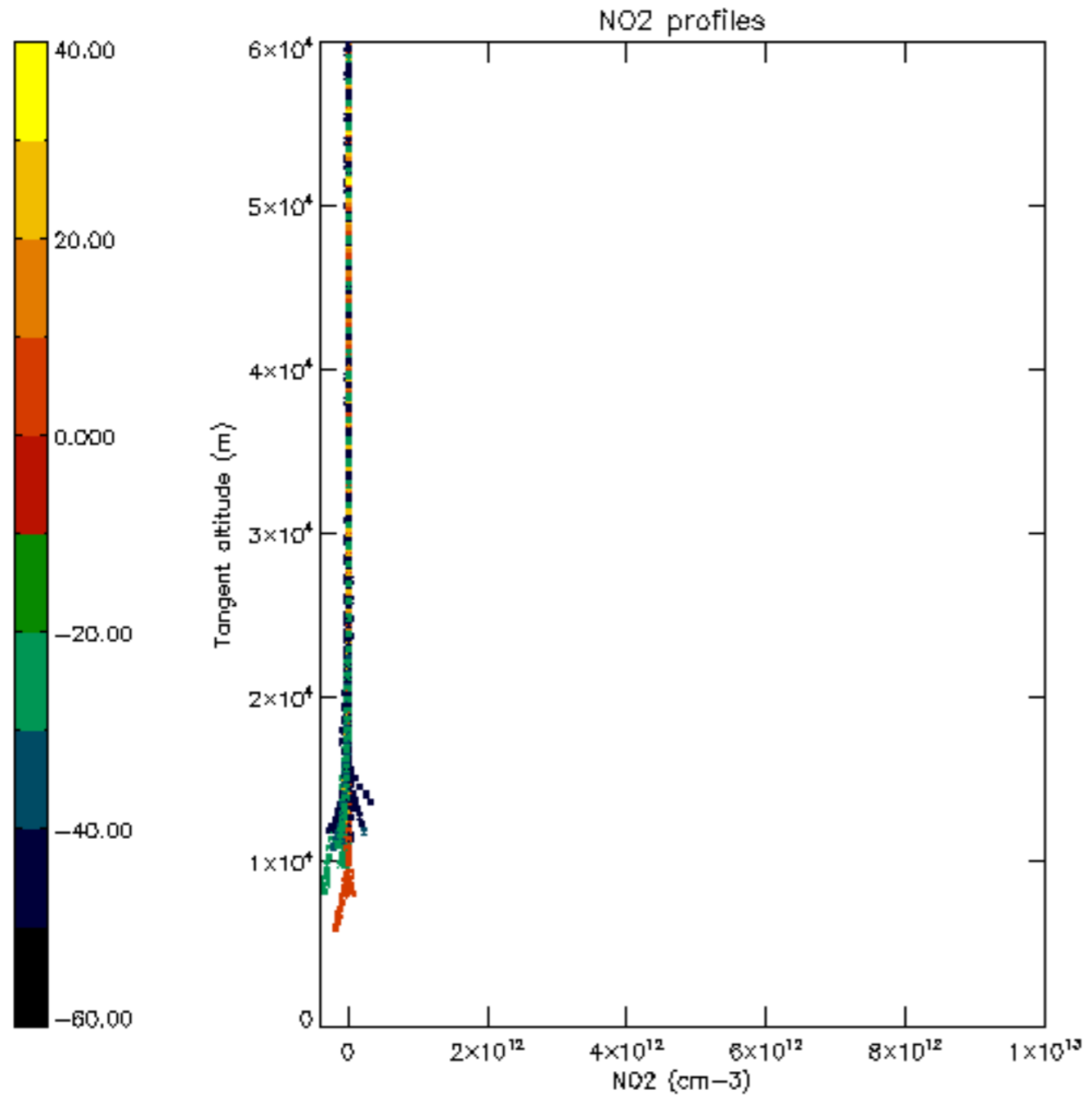


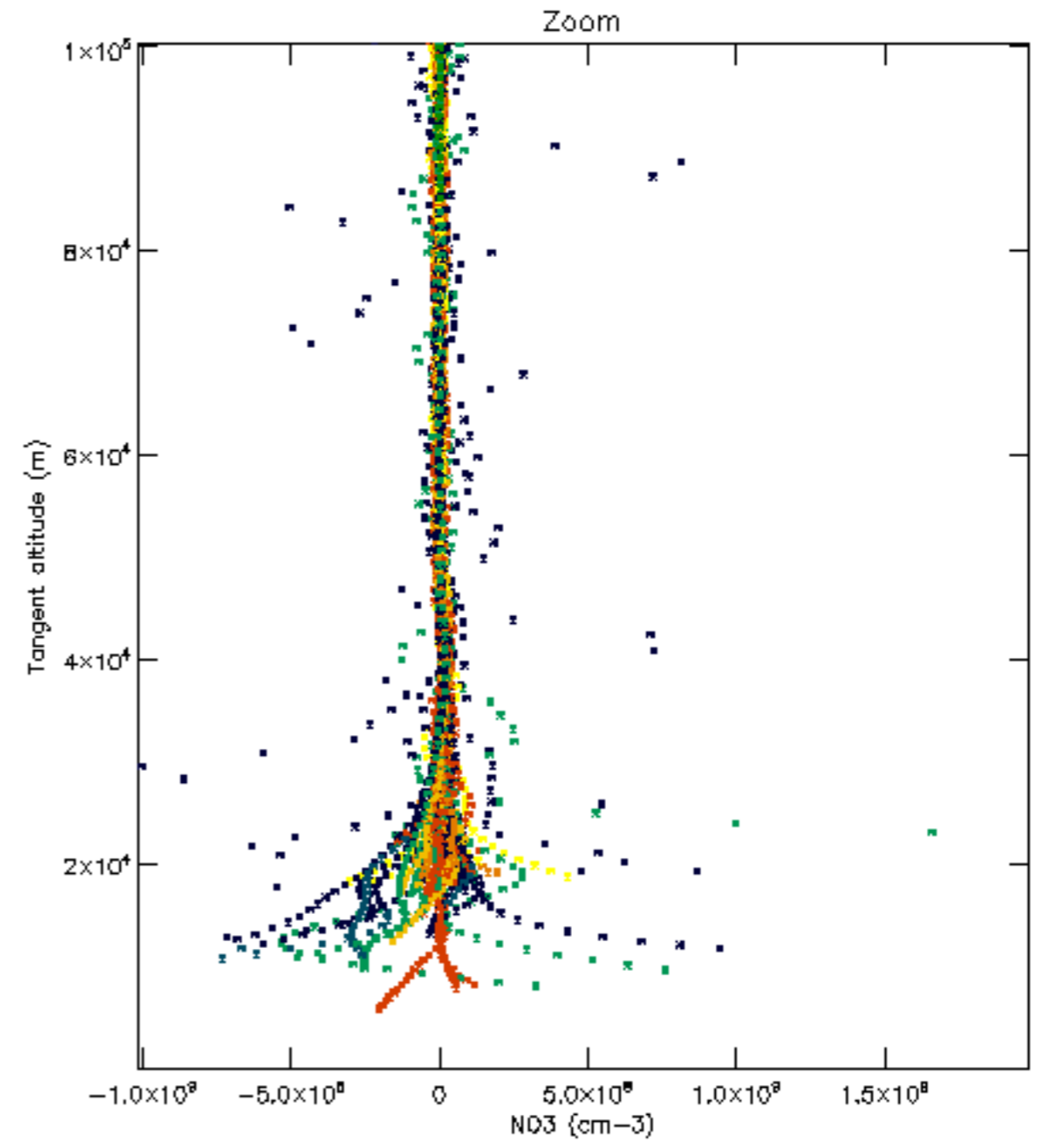
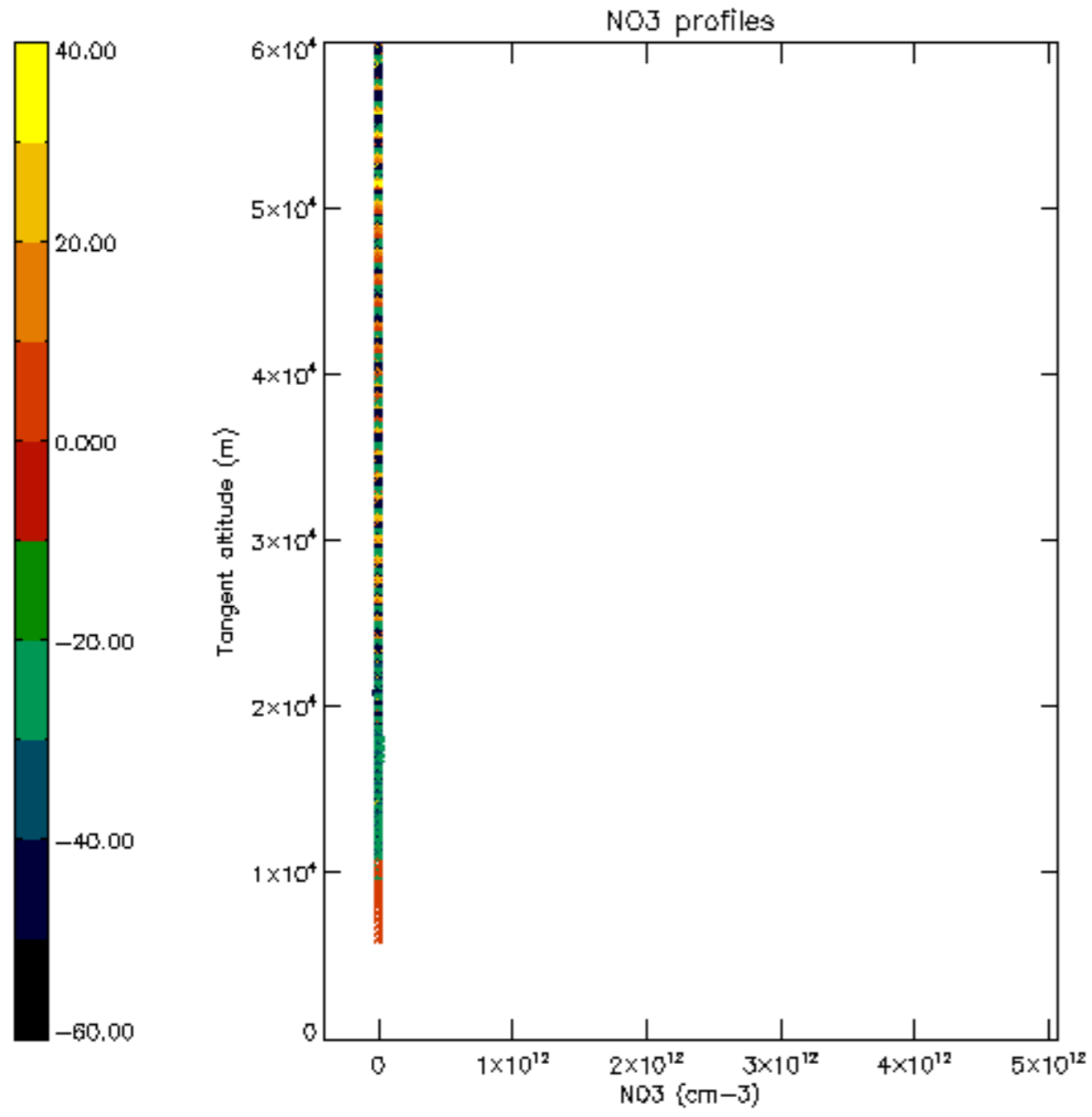


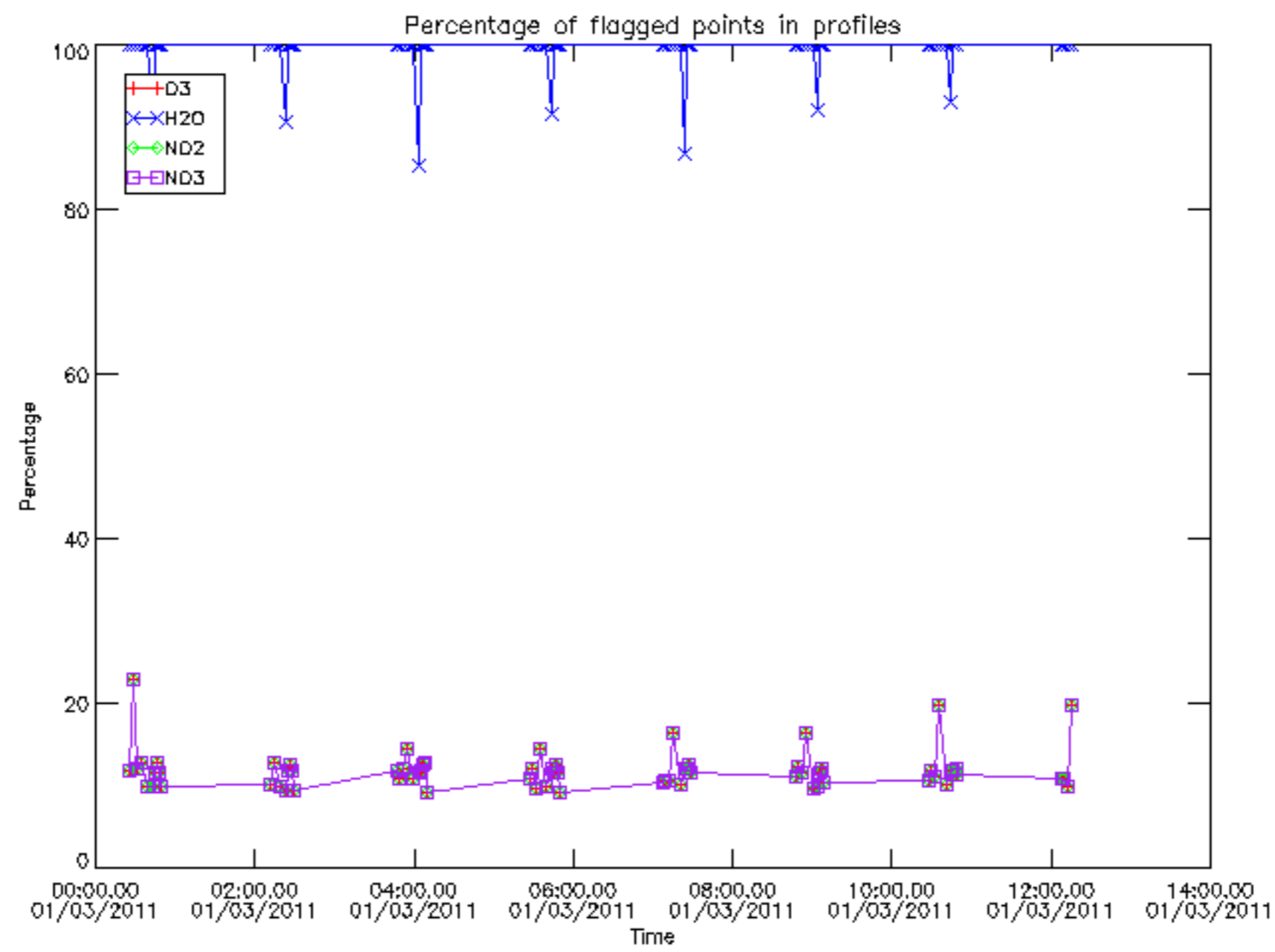




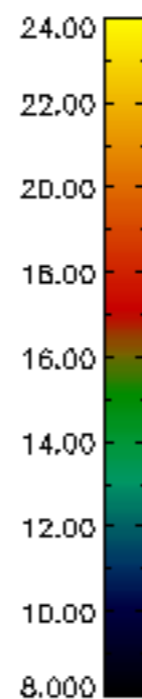
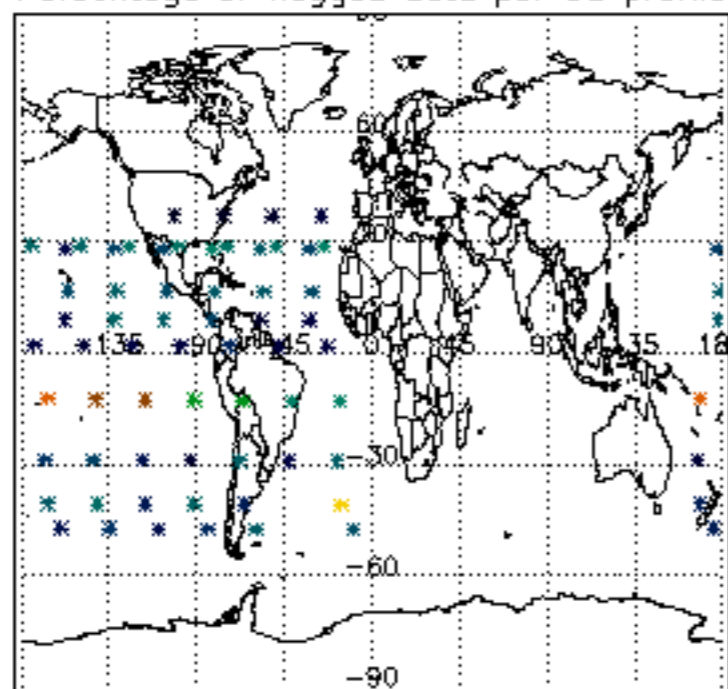




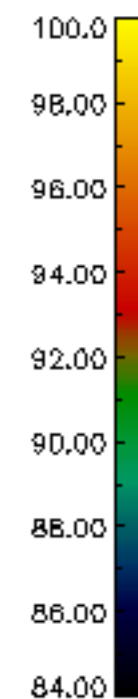
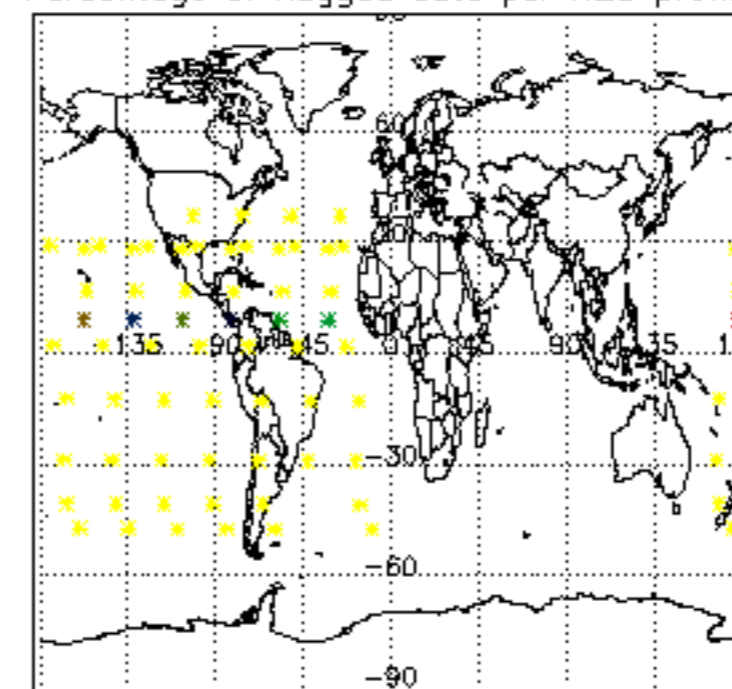




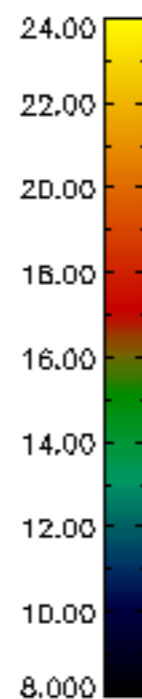
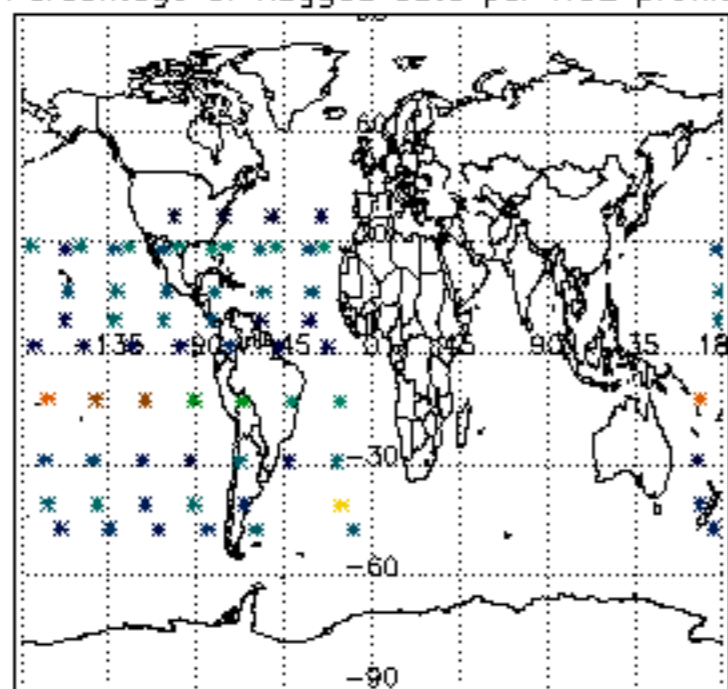
Percentage of flagged data per D3 profile



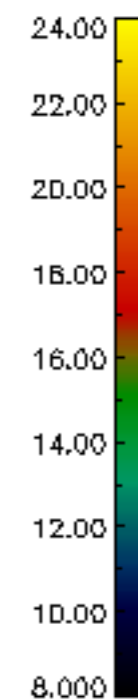
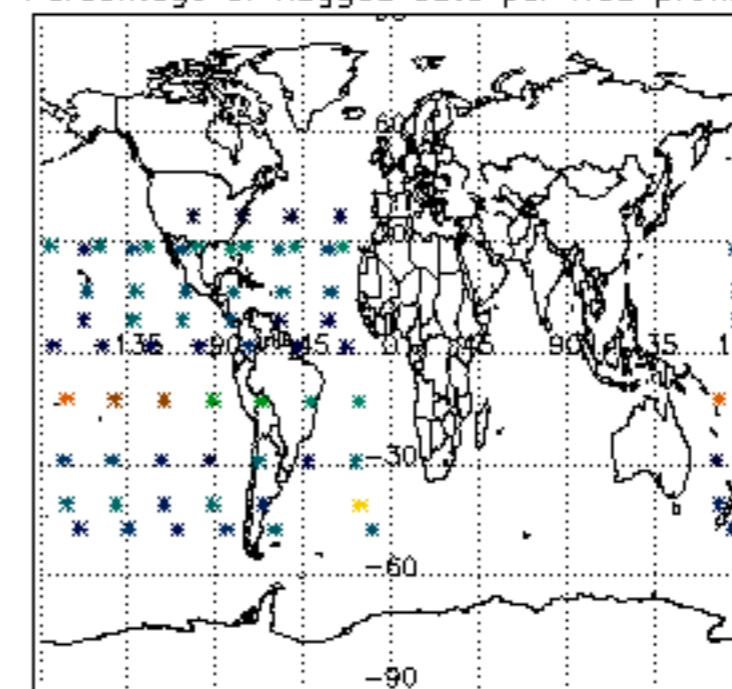
Percentage of flagged data per H2O profile

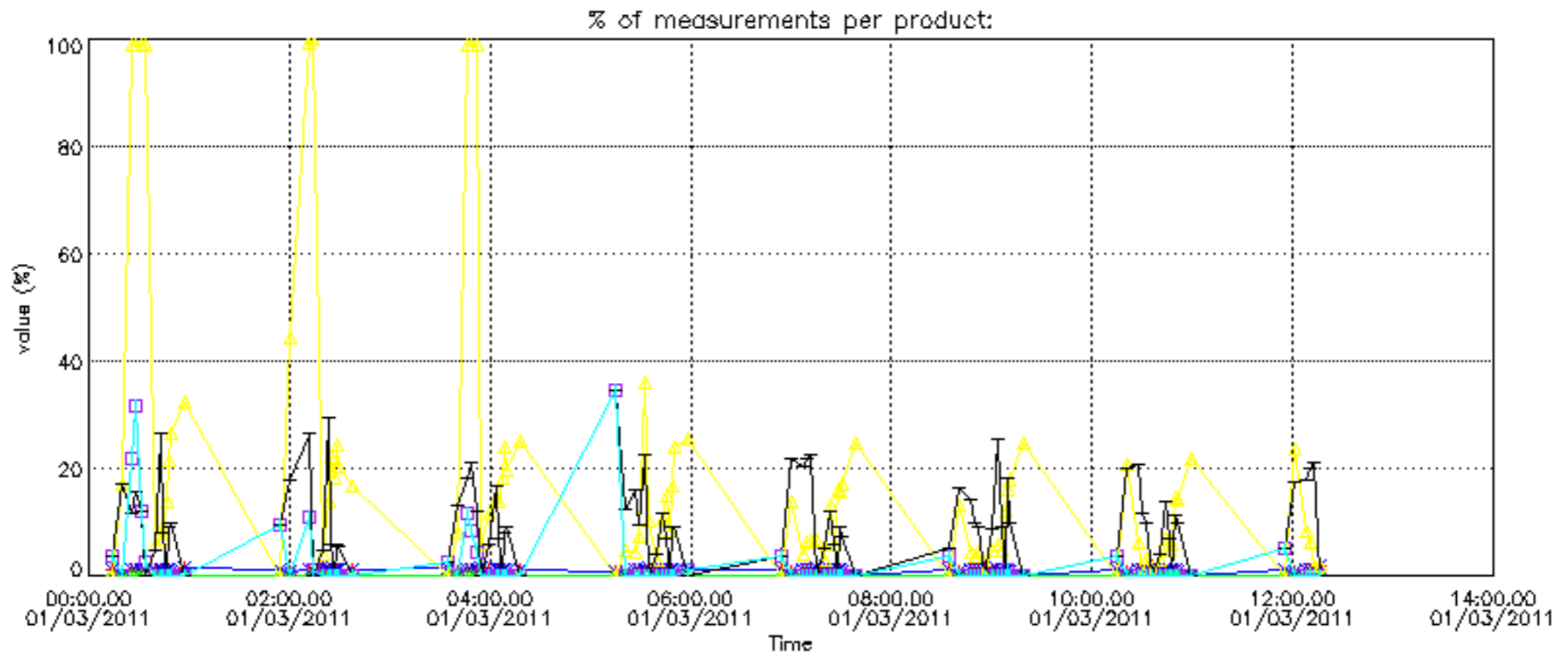


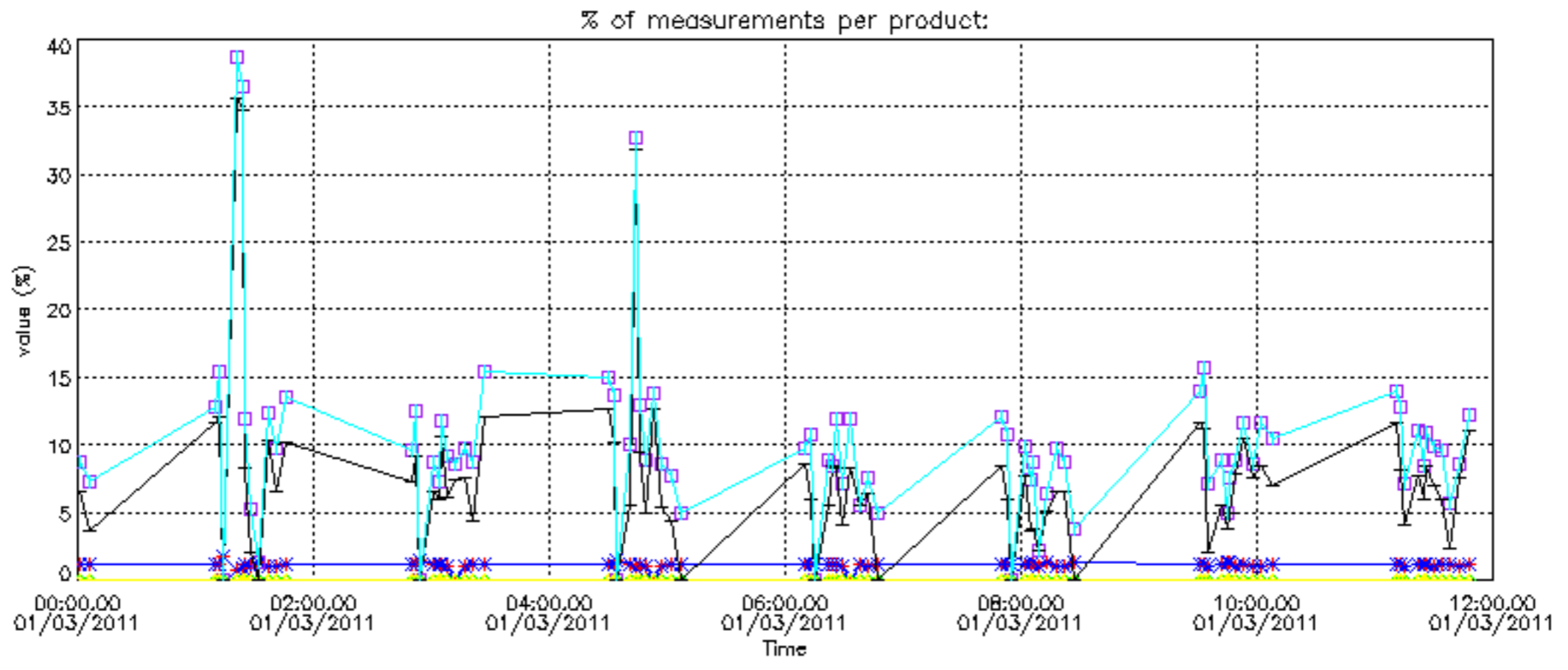
Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

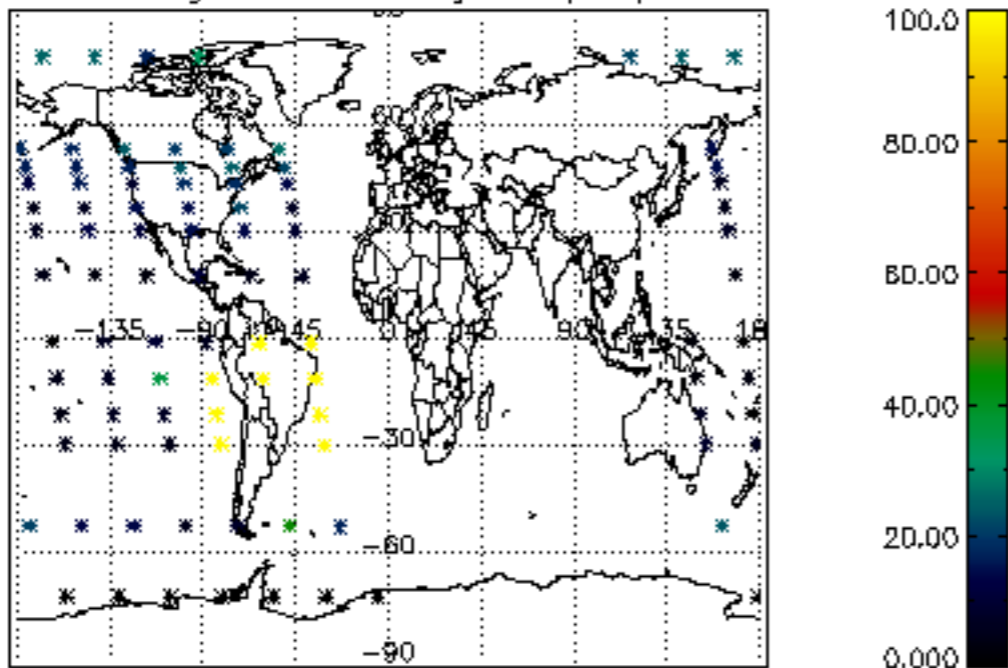




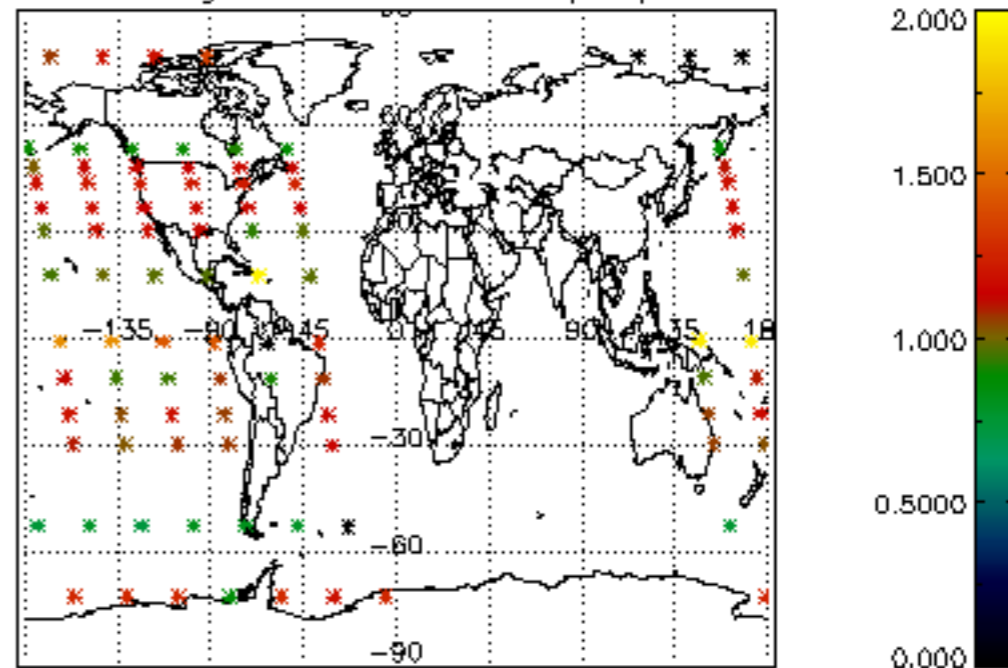




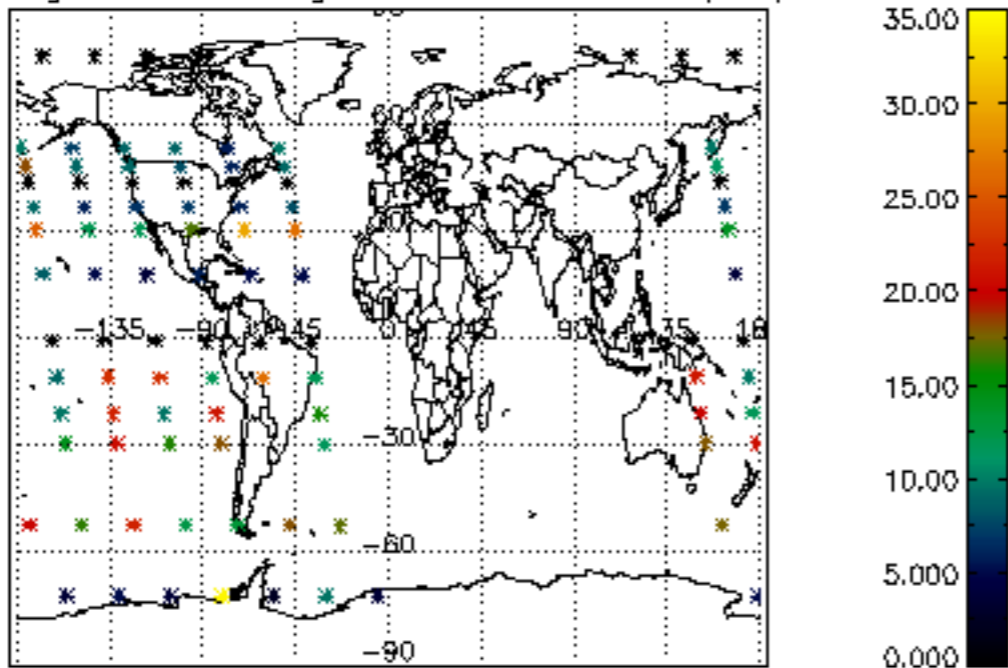
Percentage of cosmic ray hits per profile



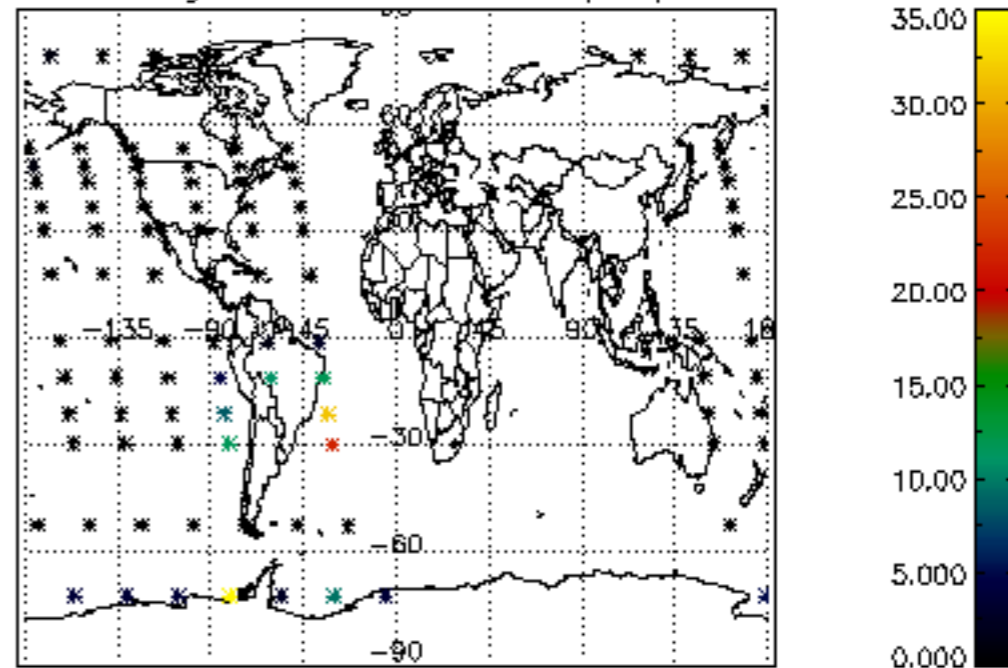
Percentage of datation errors per profile



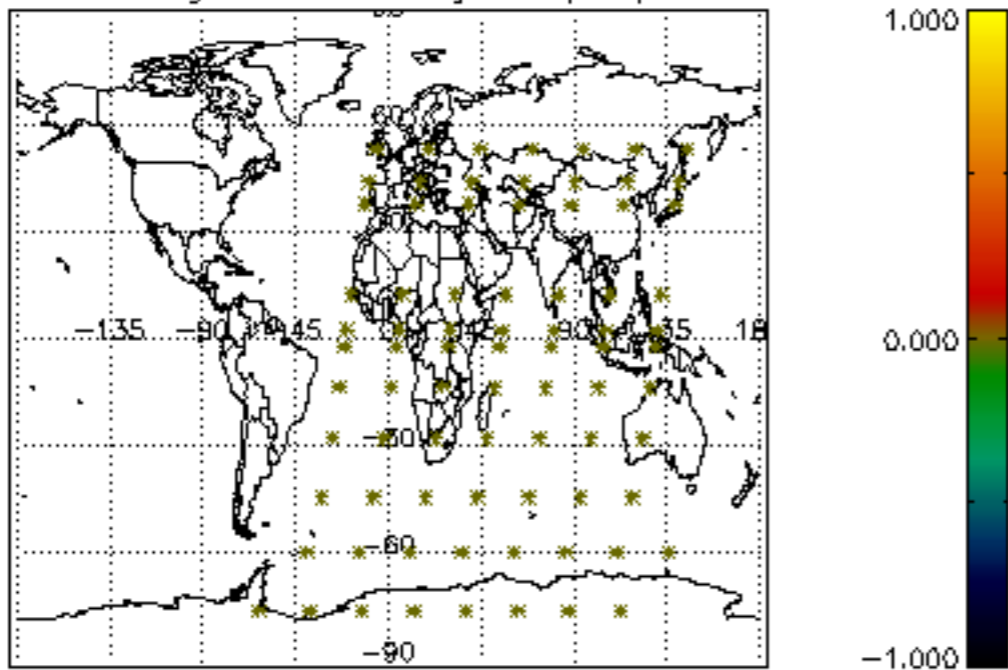
Percentage of star falling outside central band per profile



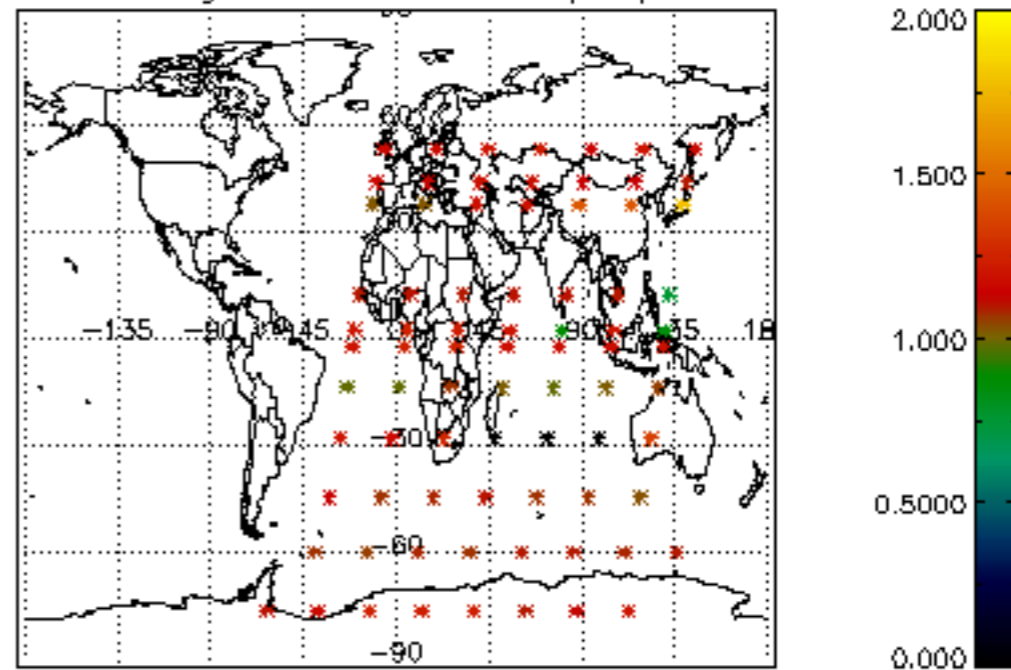
Percentage of saturation errors per profile



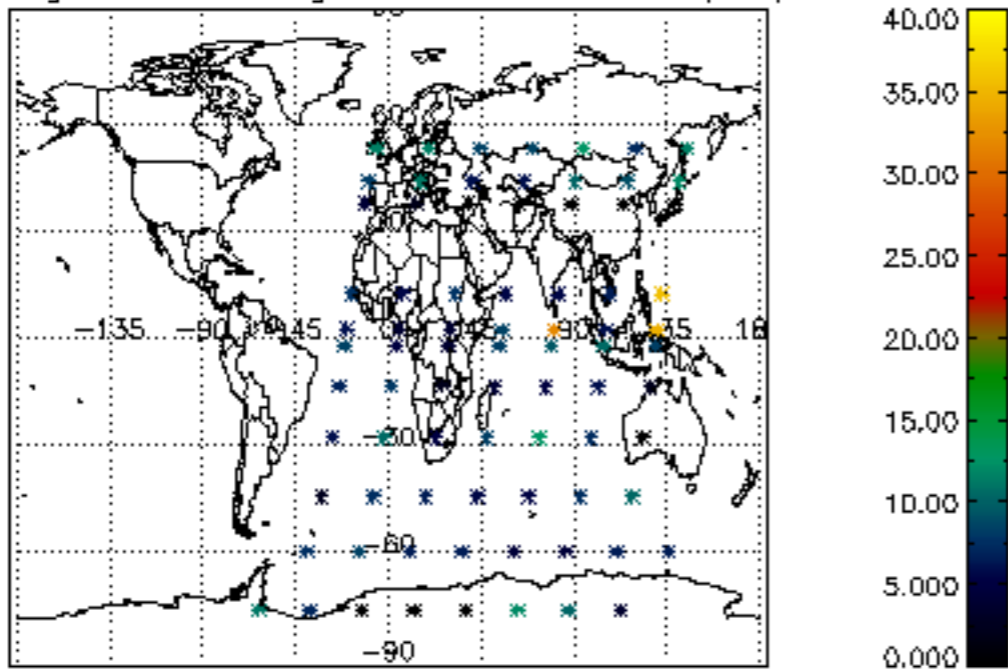
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

