

# 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 04:28:00
Data source version	GOMOS/6.01
Start time of products	25-09-2006 (25SEP2006 00:00:00)
Stop time of products	26-09-2006 (26SEP2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	257
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__2PRFIN20060925_000113_000000352051_00288_23889_2072.N1	25-SEP-2006 00:01:13	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	23889	No
2	GOM_NL__2PRFIN20060925_000838_000000322051_00288_23889_2073.N1	25-SEP-2006 00:08:38	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	23889	No
3	GOM_NL__2PRFIN20060925_001014_000000342051_00288_23889_2074.N1	25-SEP-2006 00:10:14	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	23889	No
4	GOM_NL__2PRFIN20060925_001622_000000362051_00288_23889_2075.N1	25-SEP-2006 00:16:22	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	23889	No
5	GOM_NL__2PRFIN20060925_001750_000000352051_00288_23889_2076.N1	25-SEP-2006 00:17:50	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	23889	No
6	GOM_NL__2PRFIN20060925_002100_000000352051_00288_23889_2077.N1	25-SEP-2006 00:21:00	Bright	34.500	174	52Psi UMa	3.0040	4400.0	69	23889	No
7	GOM_NL__2PRFIN20060925_002739_000000352051_00288_23889_2078.N1	25-SEP-2006 00:27:39	Bright	35.000	166	17Eps Leo	2.9800	6000.0	70	23889	No
8	GOM_NL__2PRFIN20060925_003659_000000402051_00288_23889_2079.N1	25-SEP-2006 00:36:59	Twilight	40.000	48	30Alp Hya	1.9770	4100.0	80	23889	No
9	GOM_NL__2PRFIN20060925_004640_000000452051_00288_23889_2080.N1	25-SEP-2006 00:46:40	Dark	44.500	65	Lam Vel	2.2040	4400.0	89	23889	No
10	GOM_NL__2PRFIN20060925_004959_000000402051_00288_23889_2081.N1	25-SEP-2006 00:49:59	Dark	40.000	46	Del Vel	1.9540	10600.	80	23889	No
11	GOM_NL__2PRFIN20060925_005133_000000392051_00288_23889_2082.N1	25-SEP-2006 00:51:33	Dark	39.000	41	Eps Car	1.8600	4100.0	78	23889	No
12	GOM_NL__2PRFIN20060925_010340_000000392051_00289_23890_2065.N1	25-SEP-2006 01:03:40	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	23890	No
13	GOM_NL__2PRFIN20060925_010508_000000442051_00289_23890_2066.N1	25-SEP-2006 01:05:08	Dark	43.500	9	Alp Eri	0.45300	24000.	87	23890	No
14	GOM_NL__2PRFIN20060925_011054_000000382051_00289_23890_2067.N1	25-SEP-2006 01:10:54	Straylight	38.000	63	Bet Gru	2.1500	2800.0	76	23890	No
15	GOM_NL__2PRFIN20060925_011529_000000442051_00289_23890_2068.N1	25-SEP-2006 01:15:29	Straylight	44.000	18	24Alp PsA	1.1660	9700.0	88	23890	No
16	GOM_NL__2PRFIN20060925_012409_000000372051_00289_23890_2069.N1	25-SEP-2006 01:24:09	Bright	37.000	162	34Alp Aqr	2.9440	5350.0	74	23890	No
17	GOM_NL__2PRFIN20060925_012811_000000382051_00289_23890_2070.N1	25-SEP-2006 01:28:11	Bright	37.500	90	54Alp Peg	2.4870	11000.	75	23890	No
18	GOM_NL__2PRFIN20060925_013227_000000362051_00289_23890_2071.N1	25-SEP-2006 01:32:27	Bright	36.000	164	44Eta Peg	2.9480	5400.0	72	23890	No
19	GOM_NL__2PRFIN20060925_014149_000000362051_00289_23890_2072.N1	25-SEP-2006 01:41:49	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	23890	No
20	GOM_NL__2PRFIN20060925_014914_000000362051_00289_23890_2073.N1	25-SEP-2006 01:49:14	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23890	No
21	GOM_NL__2PRFIN20060925_015051_000000372051_00289_23890_2074.N1	25-SEP-2006 01:50:51	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	23890	No
22	GOM_NL__2PRFIN20060925_015658_000000372051_00289_23890_2075.N1	25-SEP-2006 01:56:58	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	23890	No
23	GOM_NL__2PRFIN20060925_015827_000000352051_00289_23890_2076.N1	25-SEP-2006 01:58:27	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	23890	No
24	GOM_NL__2PRFIN20060925_020136_000000352051_00289_23890_2077.N1	25-SEP-2006 02:01:36	Bright	34.500	174	52Psi UMa	3.0040	4400.0	69	23890	No
25	GOM_NL__2PRFIN20060925_020815_000000332051_00289_23890_2078.N1	25-SEP-2006 02:08:15	Bright	33.000	166	17Eps Leo	2.9800	6000.0	66	23890	No
26	GOM_NL__2PRFIN20060925_021735_000000502051_00289_23890_2079.N1	25-SEP-2006 02:17:35	Twilight	49.500	48	30Alp Hya	1.9770	4100.0	99	23890	No
27	GOM_NL__2PRFIN20060925_022717_000000432051_00289_23890_2080.N1	25-SEP-2006 02:27:17	Dark	43.000	65	Lam Vel	2.2040	4400.0	86	23890	No
28	GOM_NL__2PRFIN20060925_023035_000000392051_00289_23890_2081.N1	25-SEP-2006 02:30:35	Dark	39.000	46	Del Vel	1.9540	10600.	78	23890	No
29	GOM_NL__2PRFIN20060925_023210_000000392051_00289_23890_2082.N1	25-SEP-2006 02:32:10	Dark	38.500	41	Eps Car	1.8600	4100.0	77	23890	No
30	GOM_NL__2PRFIN20060925_024416_000000412051_00290_23891_2065.N1	25-SEP-2006 02:44:16	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	23891	No
31	GOM_NL__2PRFIN20060925_024544_000000522051_00290_23891_2066.N1	25-SEP-2006 02:45:44	Dark	52.000	9	Alp Eri	0.45300	24000.	104	23891	No
32	GOM_NL__2PRFIN20060925_025130_000000512051_00290_23891_2067.N1	25-SEP-2006 02:51:30	Straylight	50.500	63	Bet Gru	2.1500	2800.0	101	23891	No
33	GOM_NL__2PRFIN20060925_025606_000000432051_00290_23891_2068.N1	25-SEP-2006 02:56:06	Straylight	43.000	18	24Alp PsA	1.1660	9700.0	86	23891	No
34	GOM_NL__2PRFIN20060925_030445_000000372051_00290_23891_2069.N1	25-SEP-2006 03:04:45	Bright	37.000	162	34Alp Aqr	2.9440	5350.0	74	23891	No
35	GOM_NL__2PRFIN20060925_030847_000000362051_00290_23891_2070.N1	25-SEP-2006 03:08:47	Bright	36.000	90	54Alp Peg	2.4870	11000.	72	23891	No
36	GOM_NL__2PRFIN20060925_031303_000000382051_00290_23891_2071.N1	25-SEP-2006 03:13:03	Bright	37.500	164	44Eta Peg	2.9480	5400.0	75	23891	No
37	GOM_NL__2PRFIN20060925_032225_000000362051_00290_23891_2072.N1	25-SEP-2006 03:22:25	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	23891	No
38	GOM_NL__2PRFIN20060925_032949_000000362051_00290_23891_2073.N1	25-SEP-2006 03:29:49	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	23891	No
39	GOM_NL__2PRFIN20060925_033127_000000532051_00290_23891_2074.N1	25-SEP-2006 03:31:27	Bright	52.500	60	7Bet UMi	2.0810	3950.0	105	23891	No
40	GOM_NL__2PRFIN20060925_033734_000000362051_00290_23891_2075.N1	25-SEP-2006 03:37:34	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	23891	No
41	GOM_NL__2PRFIN20060925_033903_000000352051_00290_23891_2076.N1	25-SEP-2006 03:39:03	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	23891	No
42	GOM_NL__2PRFIN20060925_034212_000000352051_00290_23891_2077.N1	25-SEP-2006 03:42:12	Bright	34.500	174	52Psi UMa	3.0040	4400.0	69	23891	No





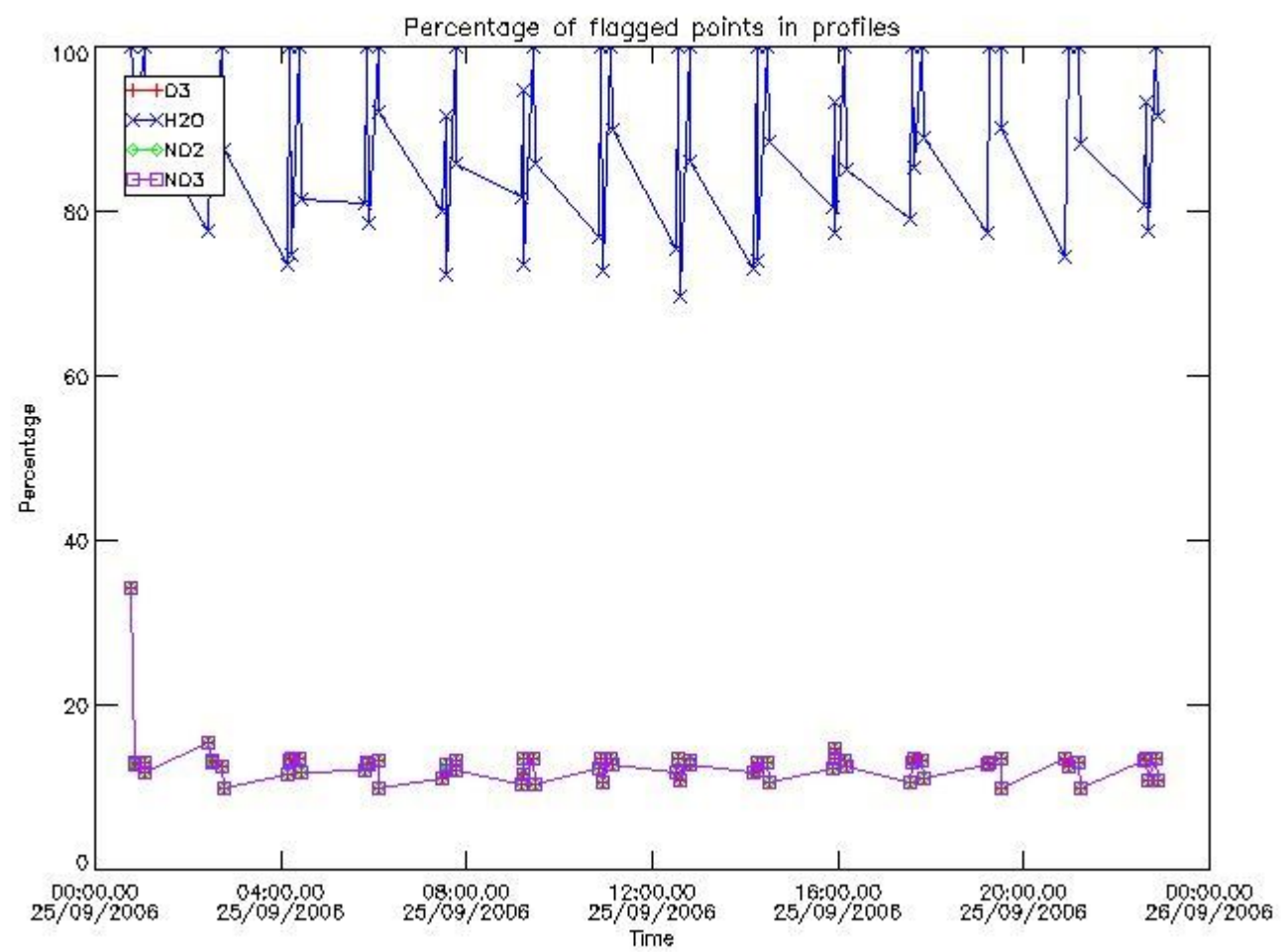


220	GOM_NL__2PRFIN20060925_202504_000000342051_00300_23901_2096.N1	25-SEP-2006 20:25:04	Bright	33.500	82	48Bet UMa	2.3650	10600.	67	23901	No
221	GOM_NL__2PRFIN20060925_202814_000000352051_00300_23901_2097.N1	25-SEP-2006 20:28:14	Bright	35.000	174	52Psi UMa	3.0040	4400.0	70	23901	No
222	GOM_NL__2PRFIN20060925_203452_000000352051_00300_23901_2098.N1	25-SEP-2006 20:34:52	Bright	34.500	166	17Eps Leo	2.9800	6000.0	69	23901	No
223	GOM_NL__2PRFIN20060925_204414_000000442051_00300_23901_2099.N1	25-SEP-2006 20:44:14	Twilight	44.000	48	30Alp Hya	1.9770	4100.0	88	23901	No
224	GOM_NL__2PRFIN20060925_205355_000000422051_00300_23901_2100.N1	25-SEP-2006 20:53:55	Dark	41.500	65	Lam Vel	2.2040	4400.0	83	23901	No
225	GOM_NL__2PRFIN20060925_205714_000000412051_00300_23901_2101.N1	25-SEP-2006 20:57:14	Dark	40.500	46	Del Vel	1.9540	10600.	81	23901	No
226	GOM_NL__2PRFIN20060925_211057_000000392051_00301_23902_2085.N1	25-SEP-2006 21:10:57	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	23902	No
227	GOM_NL__2PRFIN20060925_211224_000000512051_00301_23902_2086.N1	25-SEP-2006 21:12:24	Dark	51.000	9	Alp Eri	0.45300	24000.	102	23902	No
228	GOM_NL__2PRFIN20060925_211807_000000422051_00301_23902_2087.N1	25-SEP-2006 21:18:07	Straylight	42.000	63	Bet Gru	2.1500	2800.0	84	23902	No
229	GOM_NL__2PRFIN20060925_212243_000000432051_00301_23902_2088.N1	25-SEP-2006 21:22:43	Straylight	43.000	18	24Alp PsA	1.1660	9700.0	86	23902	No
230	GOM_NL__2PRFIN20060925_213122_000000382051_00301_23902_2089.N1	25-SEP-2006 21:31:22	Bright	38.000	162	34Alp Aqr	2.9440	5350.0	76	23902	No
231	GOM_NL__2PRFIN20060925_213522_000000372051_00301_23902_2090.N1	25-SEP-2006 21:35:22	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	23902	No
232	GOM_NL__2PRFIN20060925_213905_000000382051_00301_23902_2091.N1	25-SEP-2006 21:39:05	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	23902	No
233	GOM_NL__2PRFIN20060925_214902_000000362051_00301_23902_2092.N1	25-SEP-2006 21:49:02	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	23902	No
234	GOM_NL__2PRFIN20060925_215625_000000362051_00301_23902_2093.N1	25-SEP-2006 21:56:25	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23902	No
235	GOM_NL__2PRFIN20060925_215805_000000372051_00301_23902_2094.N1	25-SEP-2006 21:58:05	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	23902	No
236	GOM_NL__2PRFIN20060925_220411_000000382051_00301_23902_2095.N1	25-SEP-2006 22:04:11	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	23902	No
237	GOM_NL__2PRFIN20060925_220540_000000352051_00301_23902_2096.N1	25-SEP-2006 22:05:40	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	23902	No
238	GOM_NL__2PRFIN20060925_220850_000000342051_00301_23902_2097.N1	25-SEP-2006 22:08:50	Bright	33.500	174	52Psi UMa	3.0040	4400.0	67	23902	No
239	GOM_NL__2PRFIN20060925_221529_000000362051_00301_23902_2098.N1	25-SEP-2006 22:15:29	Bright	35.500	166	17Eps Leo	2.9800	6000.0	71	23902	No
240	GOM_NL__2PRFIN20060925_222450_000000422051_00301_23902_2099.N1	25-SEP-2006 22:24:50	Twilight	42.000	48	30Alp Hya	1.9770	4100.0	84	23902	No
241	GOM_NL__2PRFIN20060925_223431_000000422051_00301_23902_2100.N1	25-SEP-2006 22:34:31	Dark	42.000	65	Lam Vel	2.2040	4400.0	84	23902	No
242	GOM_NL__2PRFIN20060925_223750_000000382051_00301_23902_2101.N1	25-SEP-2006 22:37:50	Dark	37.500	46	Del Vel	1.9540	10600.	75	23902	No
243	GOM_NL__2PRFIN20060925_223925_000000482051_00301_23902_2102.N1	25-SEP-2006 22:39:25	Dark	47.500	41	Eps Car	1.8600	4100.0	95	23902	No
244	GOM_NL__2PRFIN20060925_225133_000000382051_00302_23903_2105.N1	25-SEP-2006 22:51:33	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	23903	No
245	GOM_NL__2PRFIN20060925_225300_000000482051_00302_23903_2106.N1	25-SEP-2006 22:53:00	Dark	47.500	9	Alp Eri	0.45300	24000.	95	23903	No
246	GOM_NL__2PRFIN20060925_225843_000000452051_00302_23903_2107.N1	25-SEP-2006 22:58:43	Straylight	44.500	63	Bet Gru	2.1500	2800.0	89	23903	No
247	GOM_NL__2PRFIN20060925_230319_000000412051_00302_23903_2108.N1	25-SEP-2006 23:03:19	Straylight	41.000	18	24Alp PsA	1.1660	9700.0	82	23903	No
248	GOM_NL__2PRFIN20060925_231159_000000372051_00302_23903_2109.N1	25-SEP-2006 23:11:59	Bright	37.000	162	34Alp Aqr	2.9440	5350.0	74	23903	No
249	GOM_NL__2PRFIN20060925_231558_000000372051_00302_23903_2110.N1	25-SEP-2006 23:15:58	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	23903	No
250	GOM_NL__2PRFIN20060925_231940_000000402051_00302_23903_2111.N1	25-SEP-2006 23:19:40	Bright	39.500	93	53Bet Peg	2.5200	3100.0	79	23903	No
251	GOM_NL__2PRFIN20060925_232938_000000352051_00302_23903_2112.N1	25-SEP-2006 23:29:38	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	23903	No
252	GOM_NL__2PRFIN20060925_233701_000000342051_00302_23903_2113.N1	25-SEP-2006 23:37:01	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	23903	No
253	GOM_NL__2PRFIN20060925_233842_000000352051_00302_23903_2114.N1	25-SEP-2006 23:38:42	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	23903	No
254	GOM_NL__2PRFIN20060925_234447_000000372051_00302_23903_2115.N1	25-SEP-2006 23:44:47	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	23903	No
255	GOM_NL__2PRFIN20060925_234616_000000362051_00302_23903_2116.N1	25-SEP-2006 23:46:16	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	23903	No
256	GOM_NL__2PRFIN20060925_234926_000000342051_00302_23903_2117.N1	25-SEP-2006 23:49:26	Bright	34.000	174	52Psi UMa	3.0040	4400.0	68	23903	No
257	GOM_NL__2PRFIN20060925_235605_000000472051_00302_23903_2118.N1	25-SEP-2006 23:56:05	Bright	46.500	166	17Eps Leo	2.9800	6000.0	93	23903	No

### 3. Quality information per product

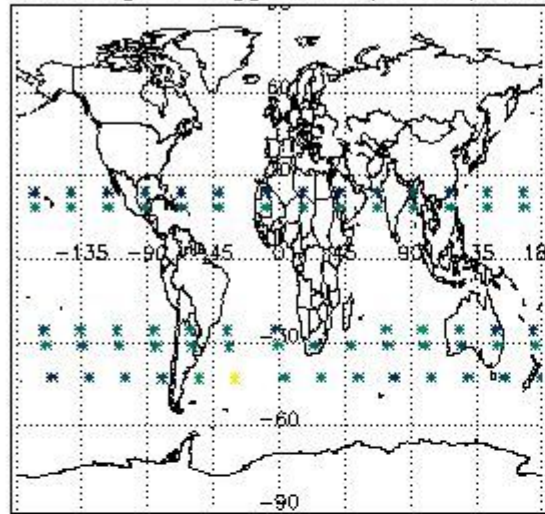
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

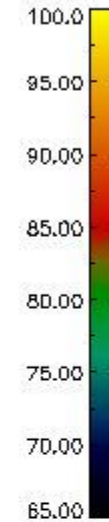
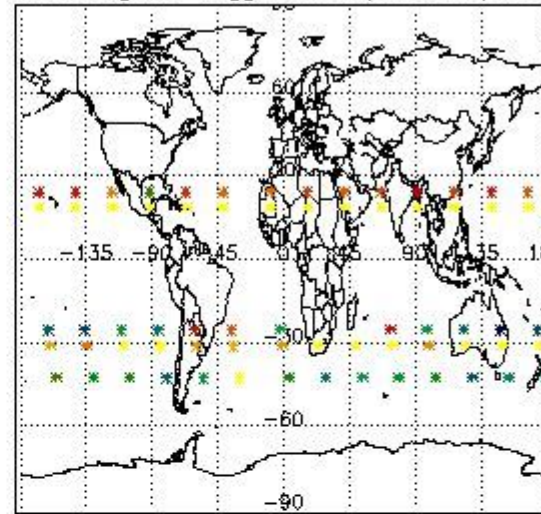


3.2 Plot quality information per product (world map)

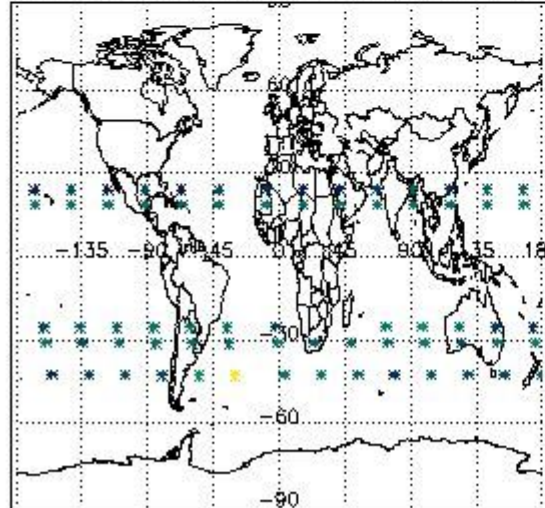
Percentage of flagged data per O3 profile



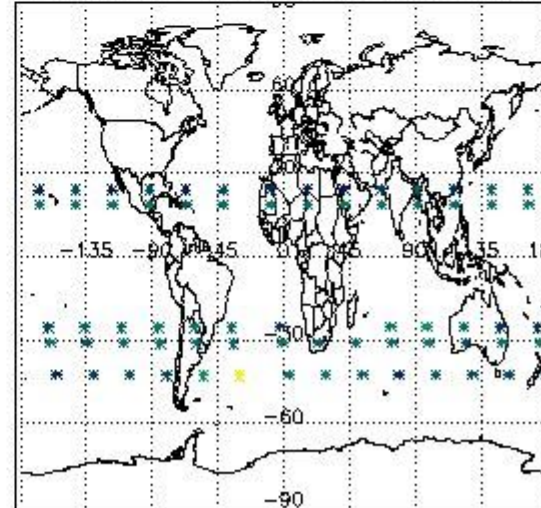
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile



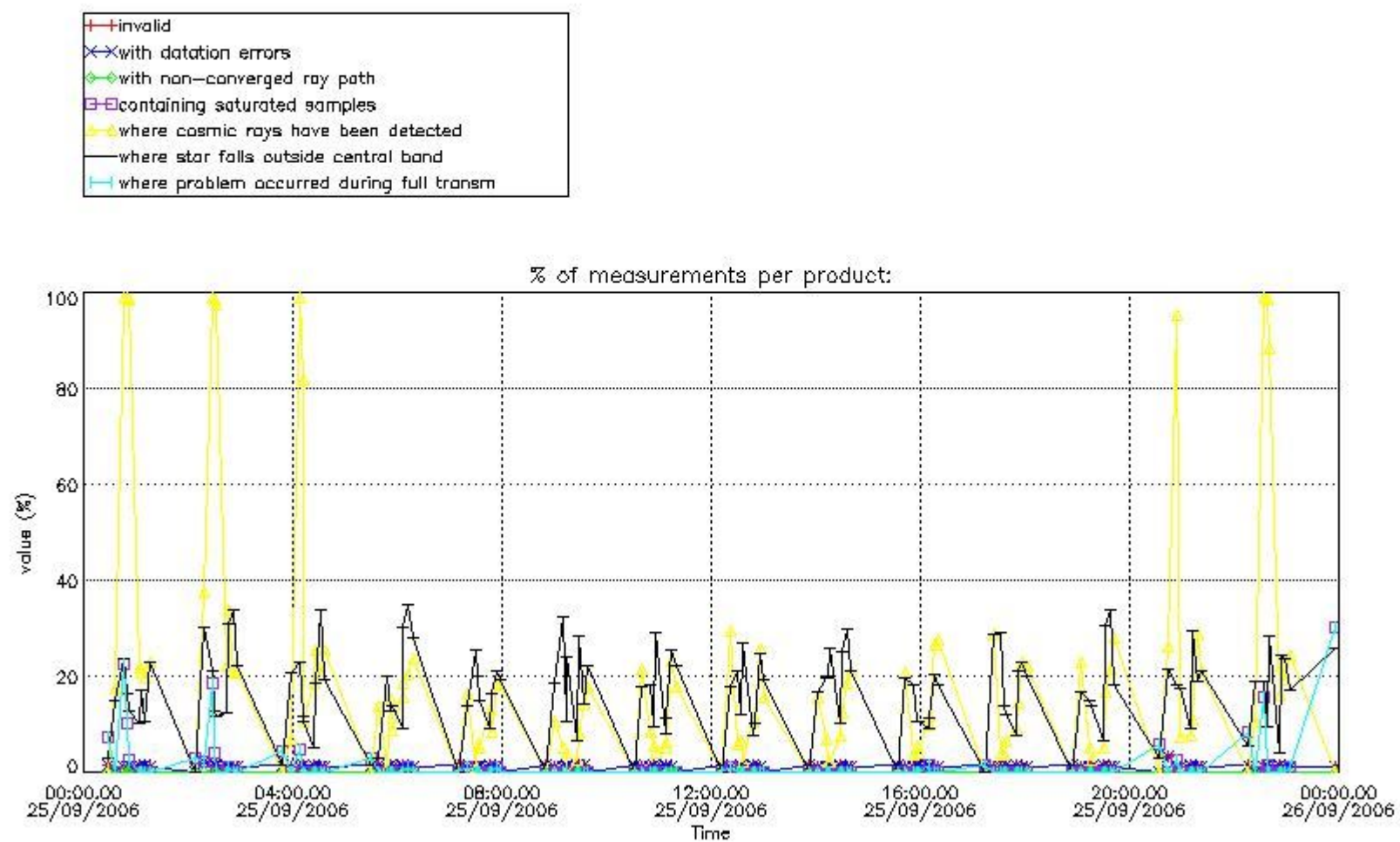
#### 4. Level 1 quality information per product

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.

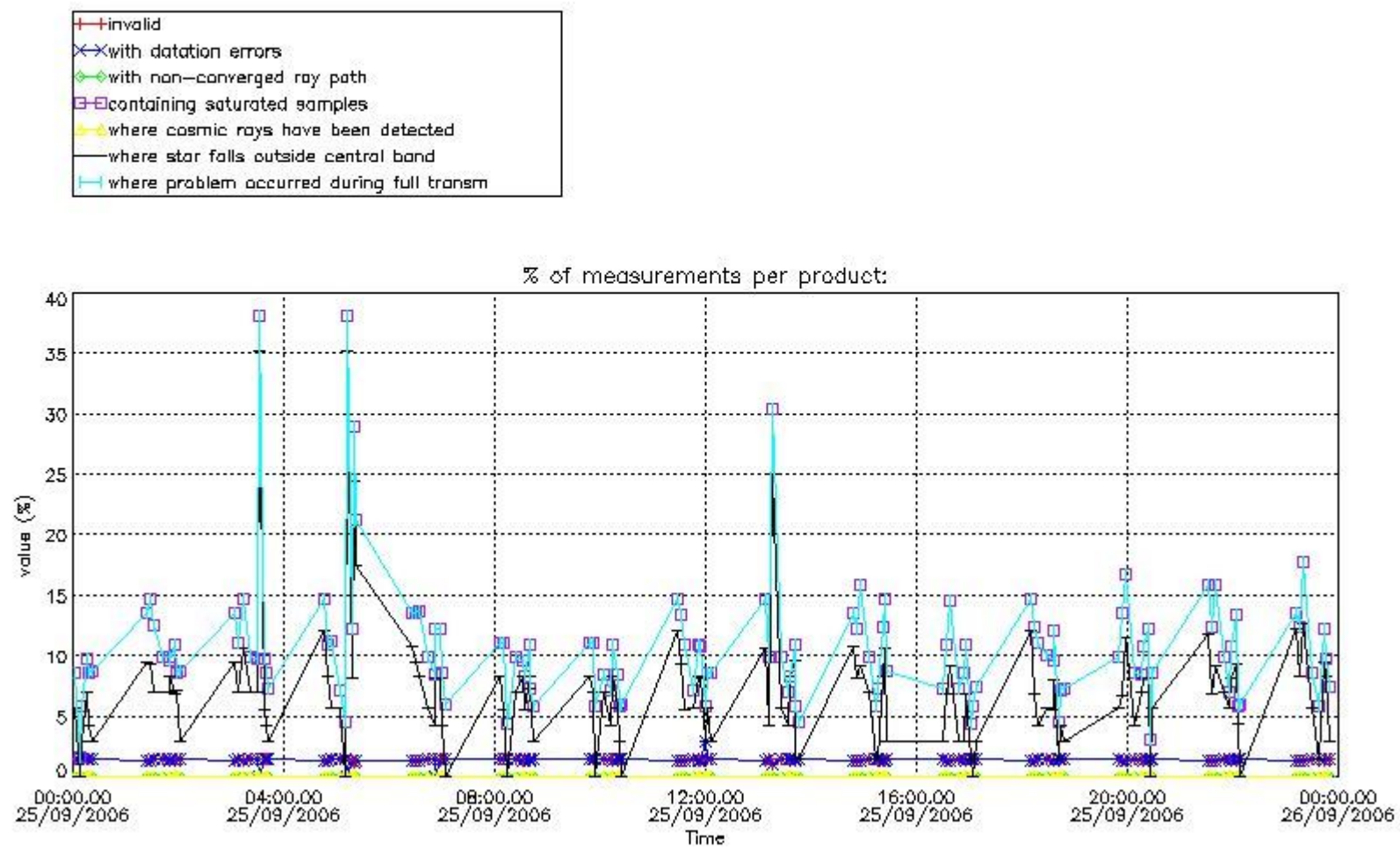
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

###### 4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes



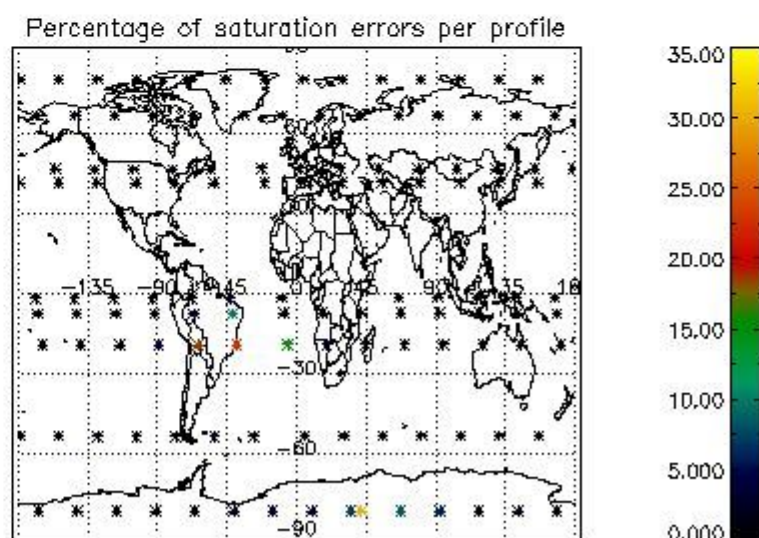
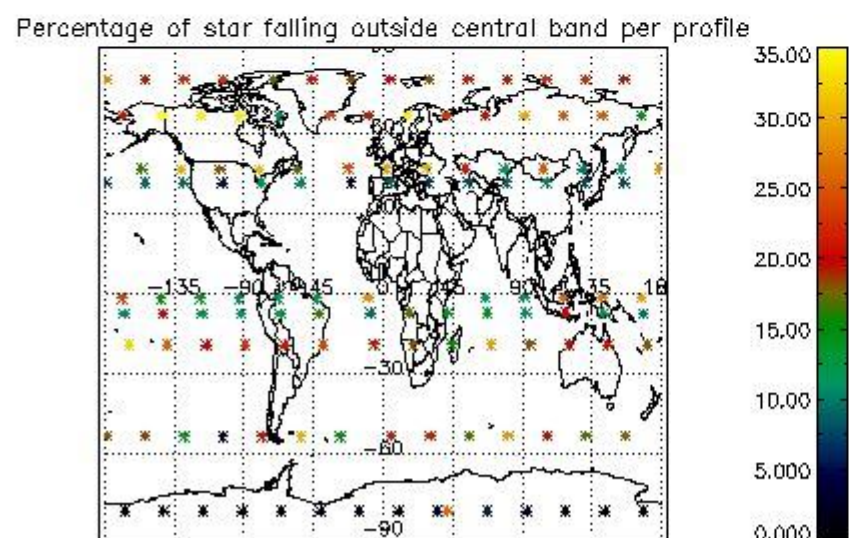
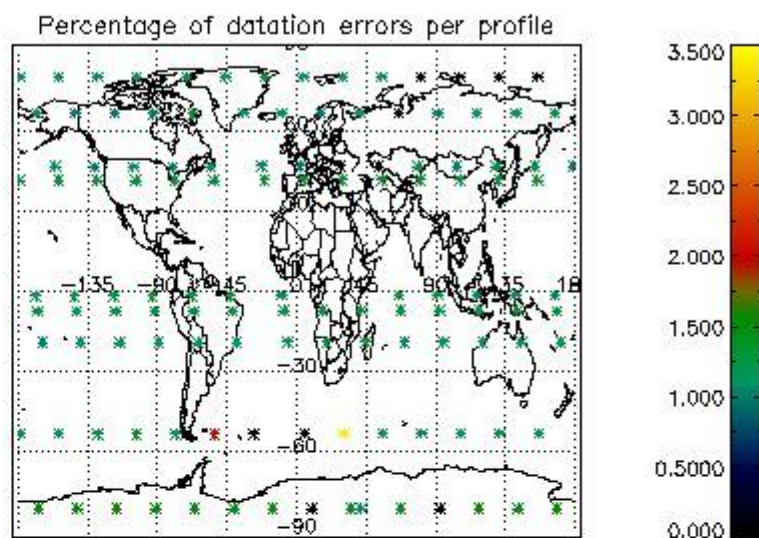
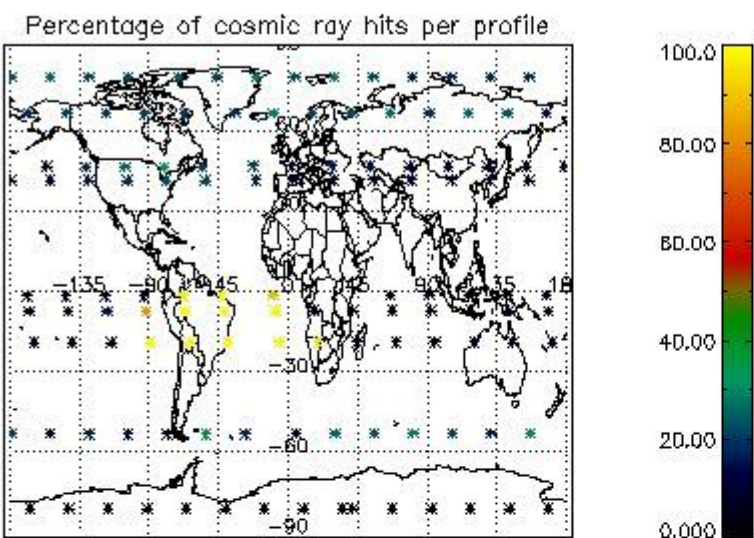


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

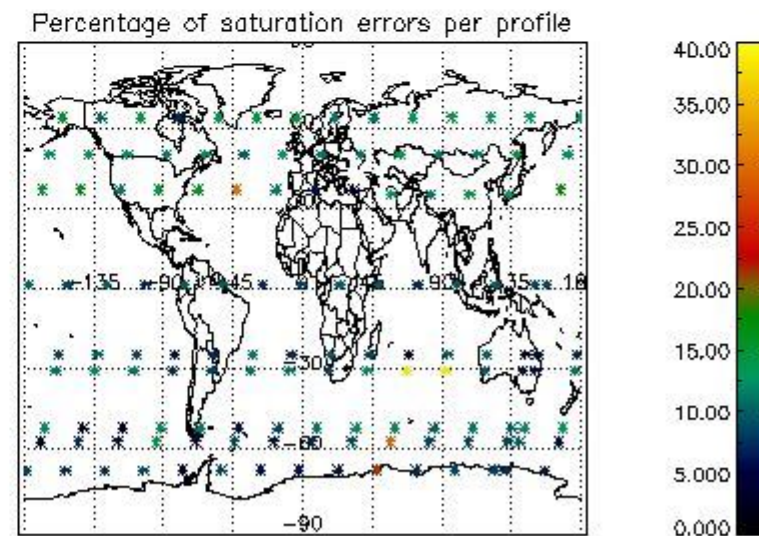
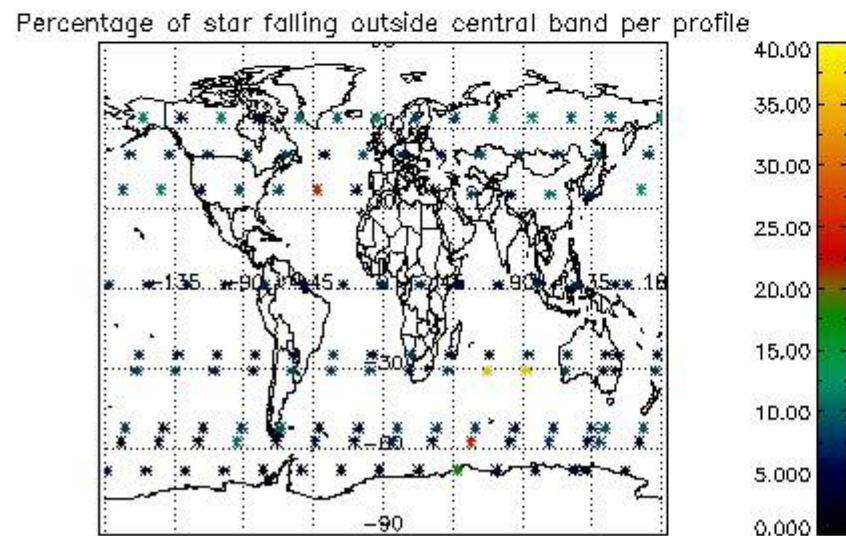
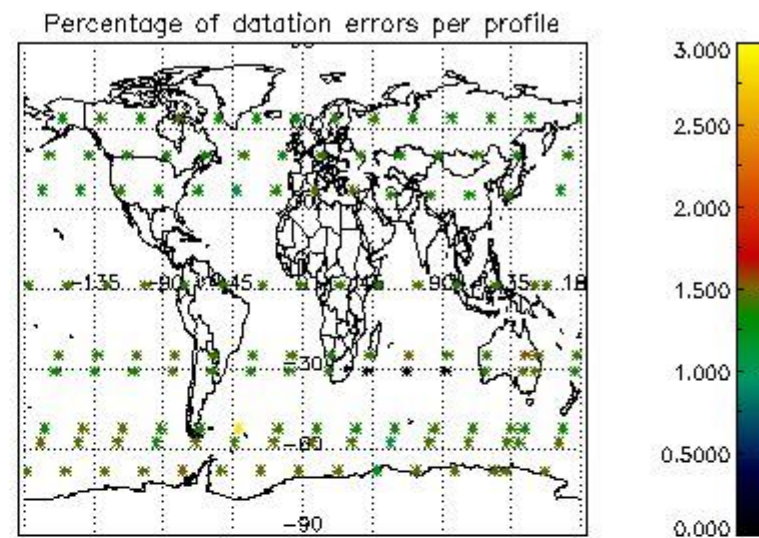
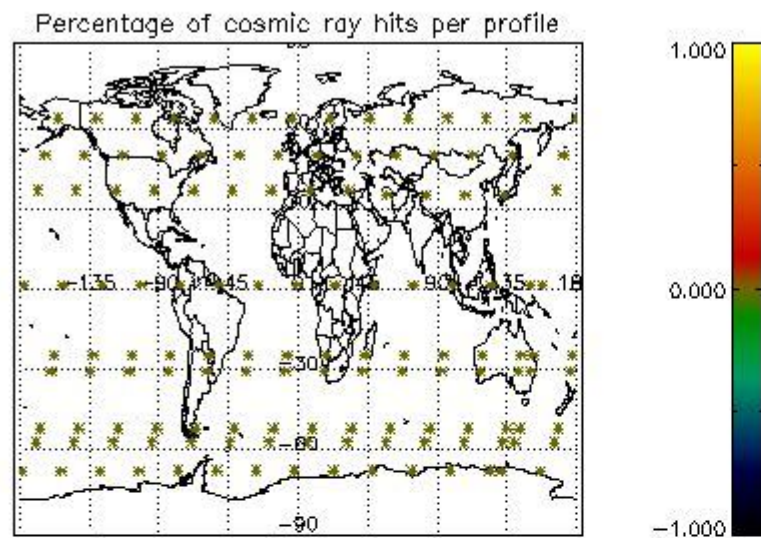


4.2 Plot quality information per product coming from level 1b processing (world map)

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

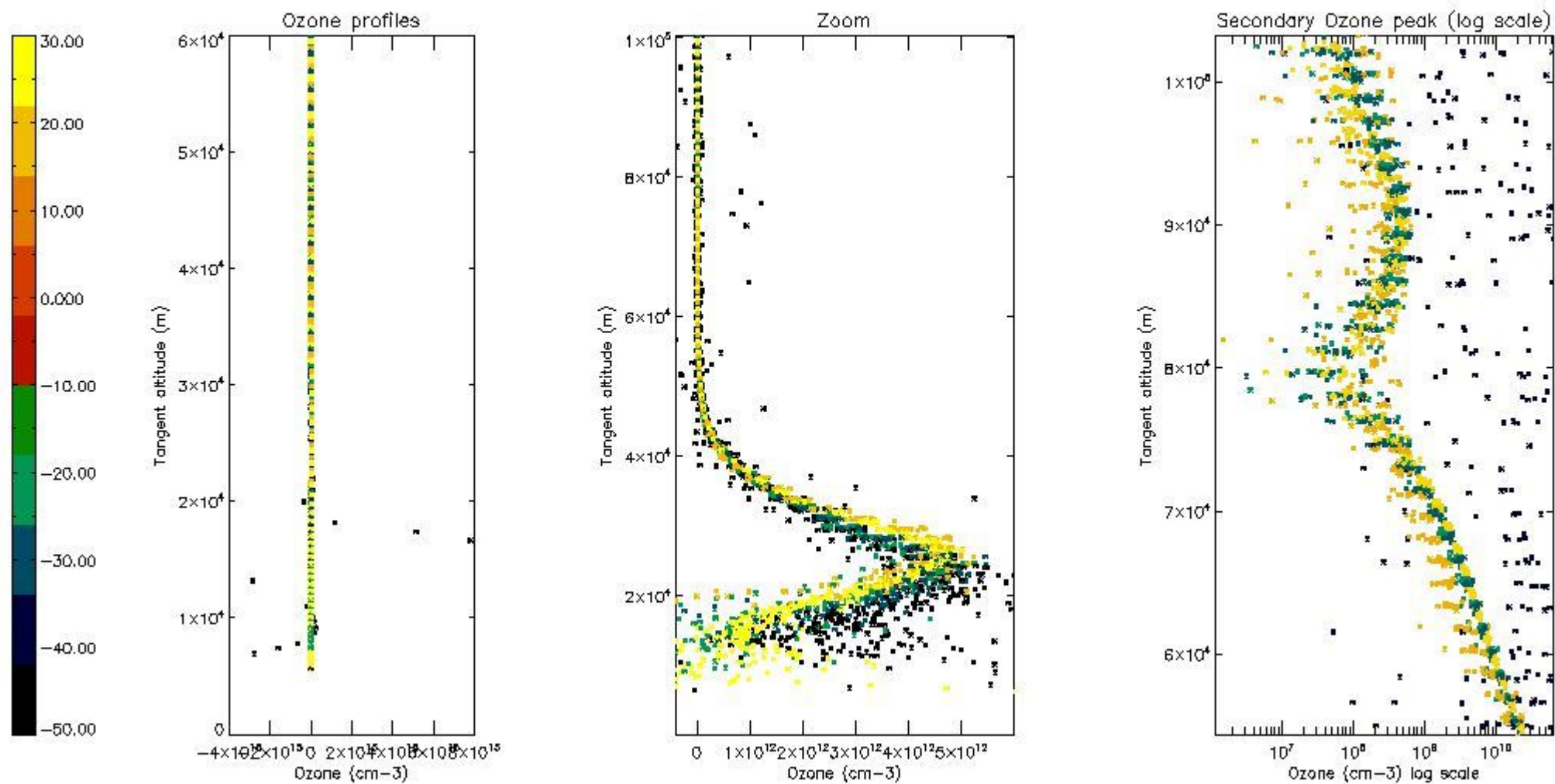
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	29
STD < 20	15

STD < 10	12
STD < 5	6

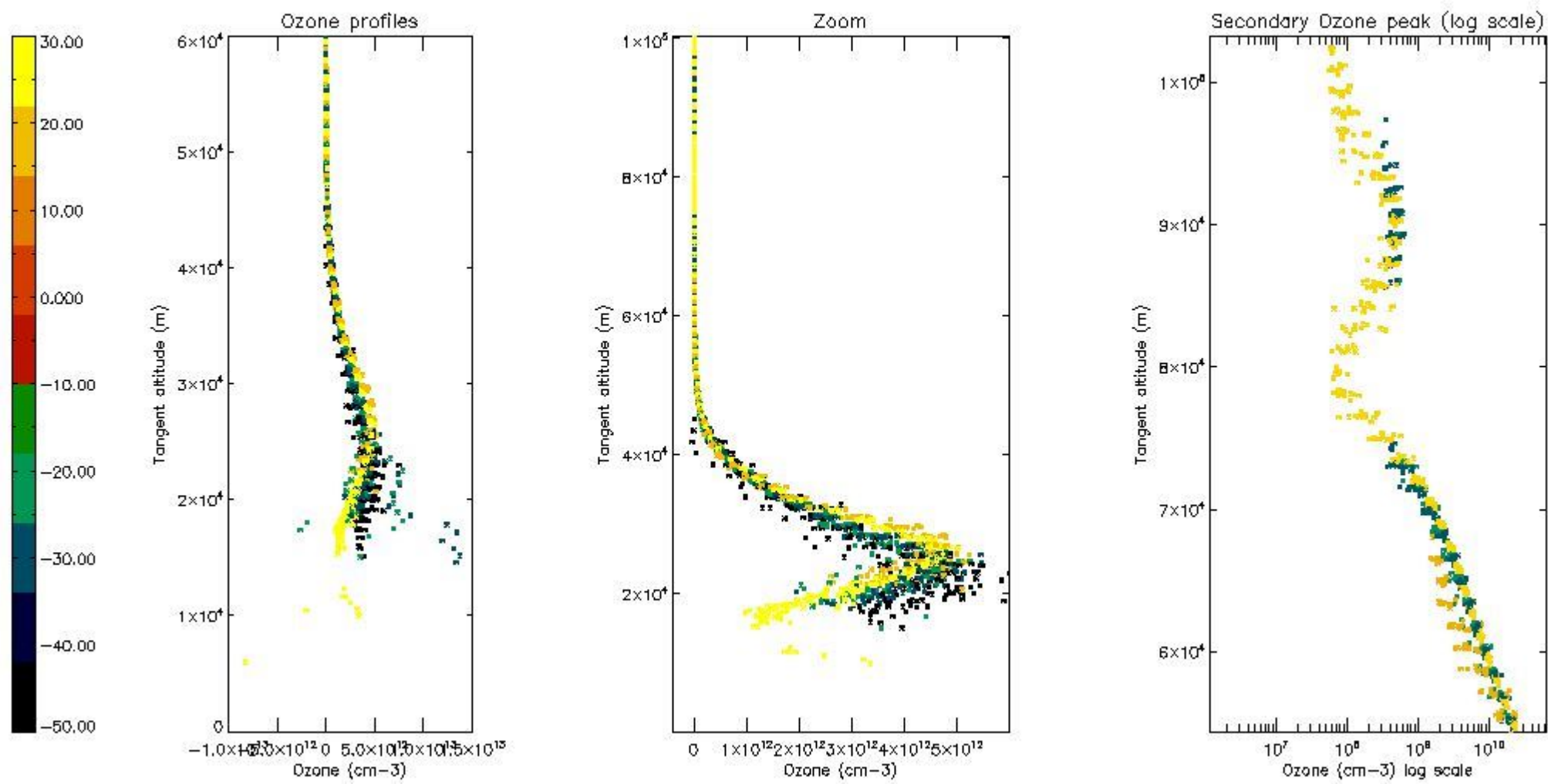
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



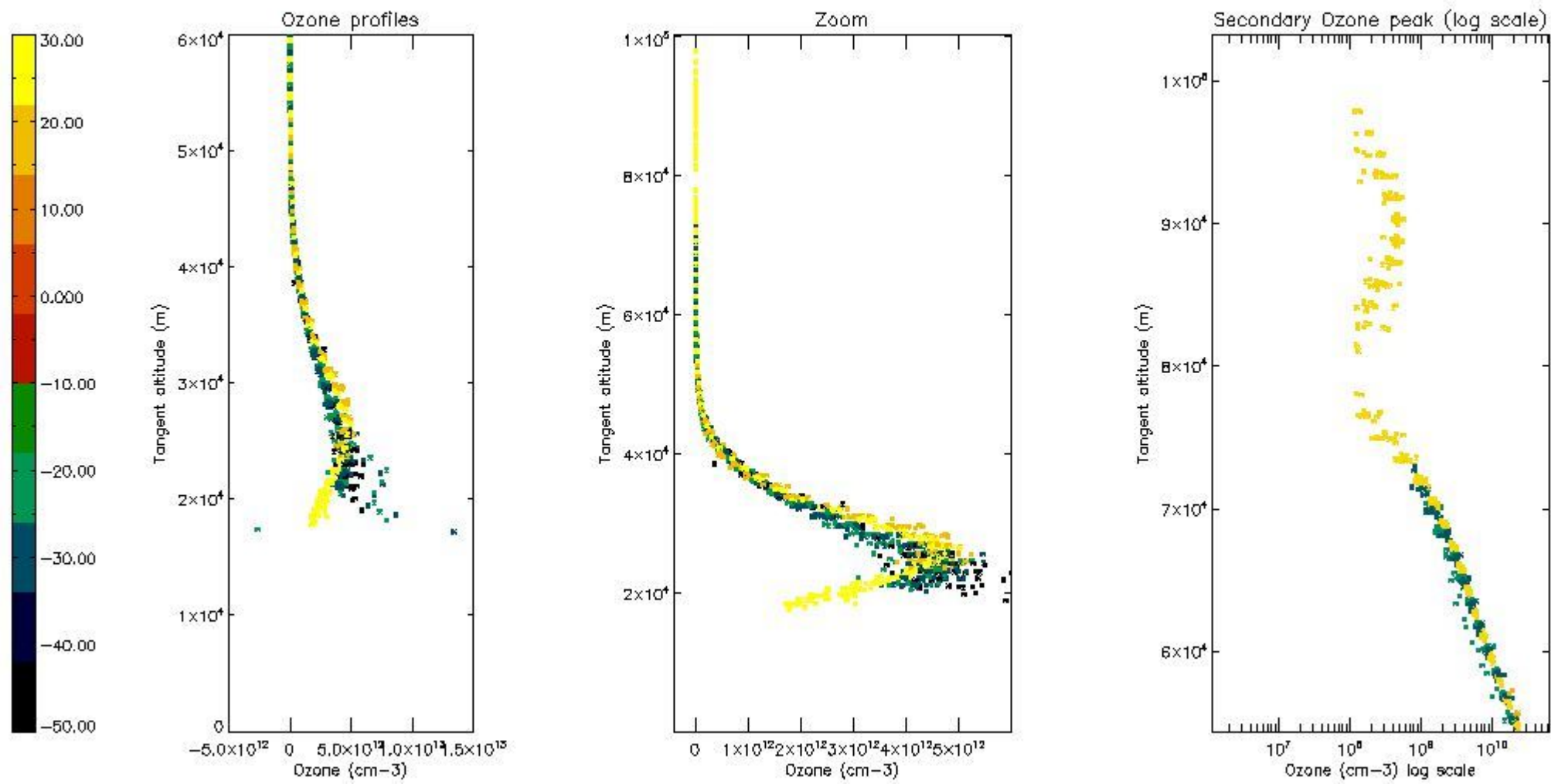
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



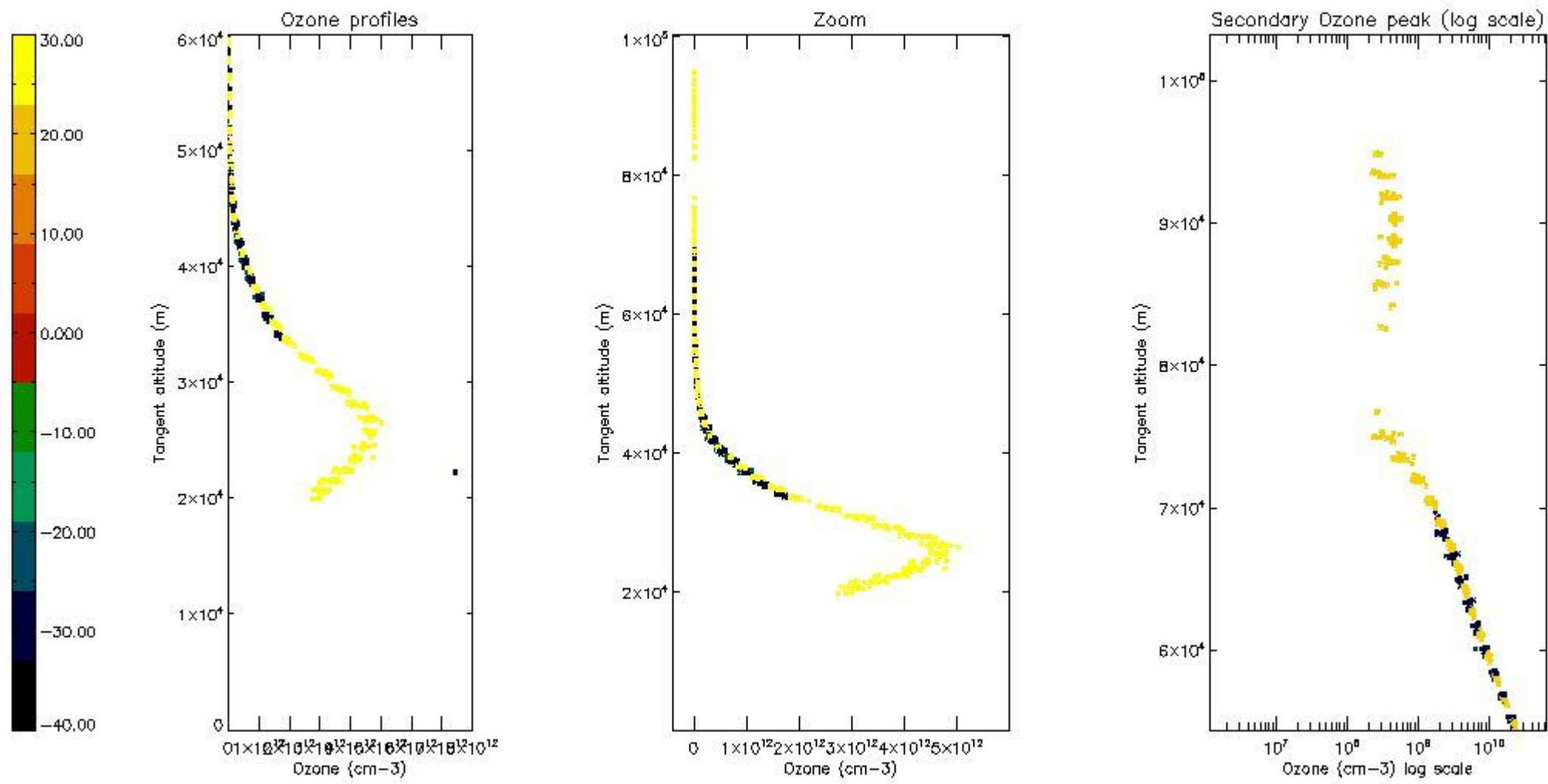
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



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

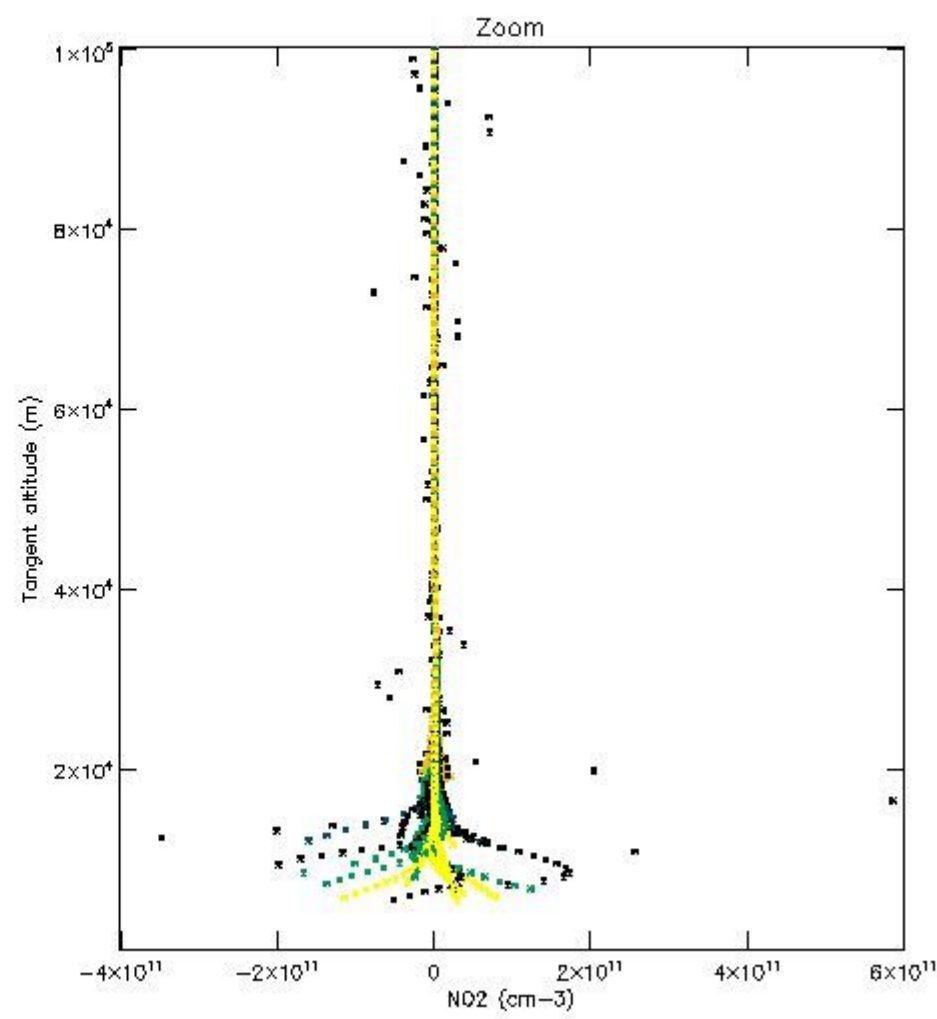
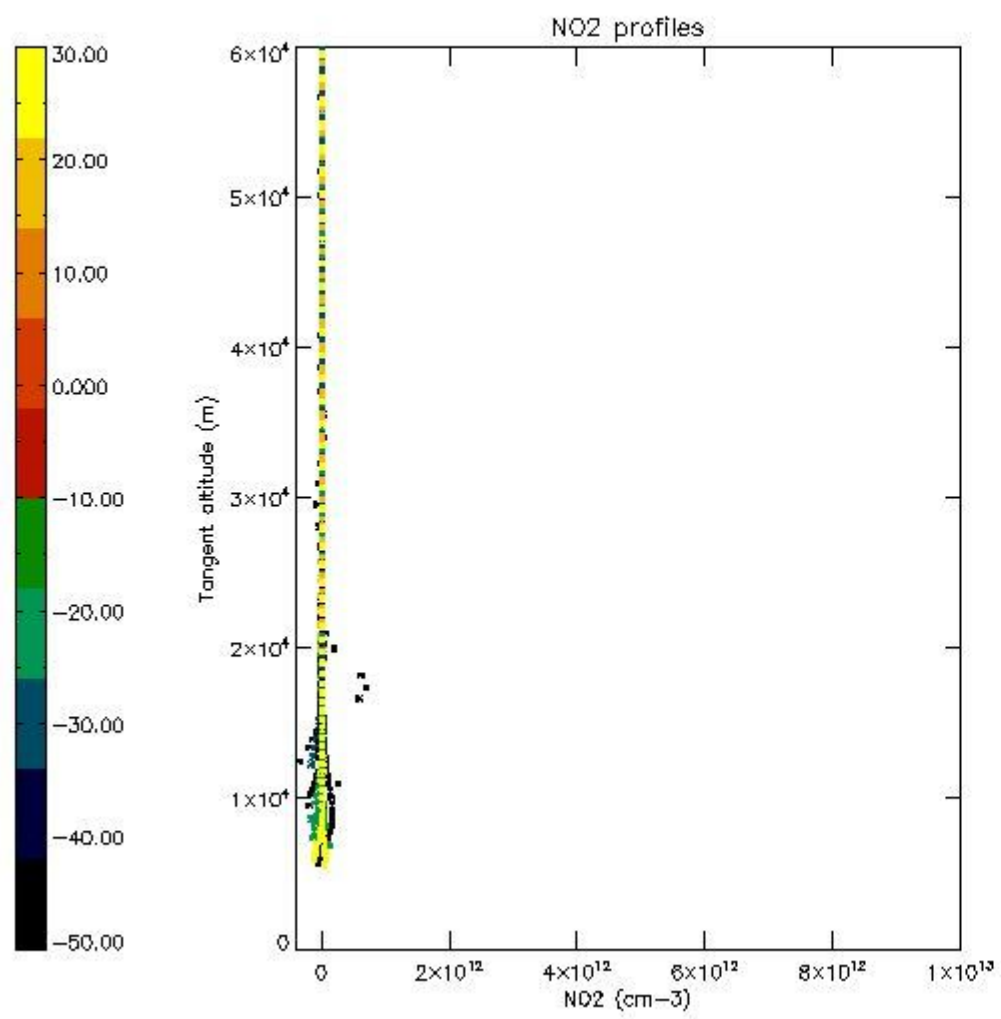
The colorbar represents the latitude.



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

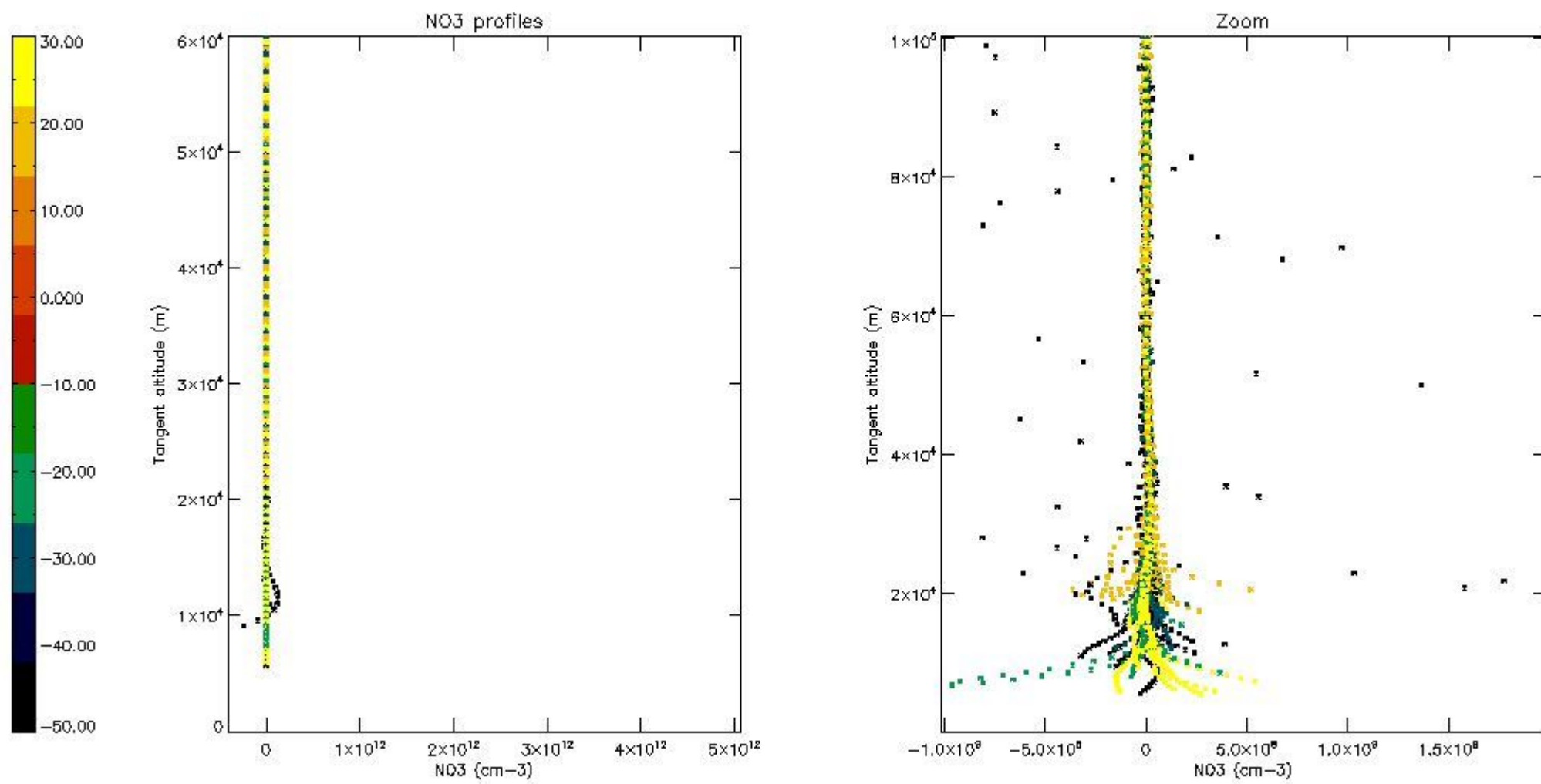
The colorbar represents the latitude.





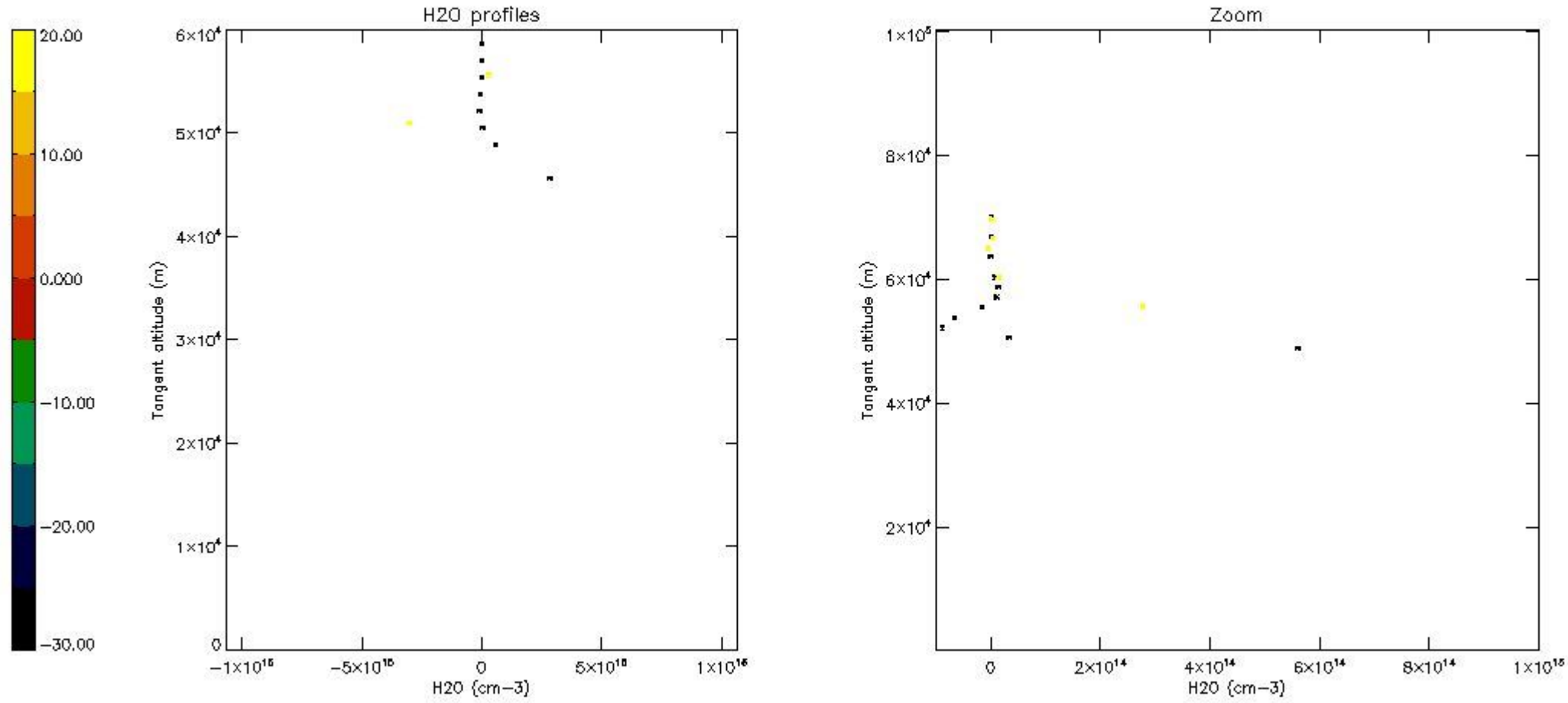
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



5.8 Plot H<sub>2</sub>O 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	25-SEP-2006 00:01:13
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	25-SEP-2006 00:01:13
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	25-SEP-2006 00:01:13

# GOMOS Level 2 Daily Report

## SUMMARY

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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 \(time dependant\)](#)

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### [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% \(dark without errors\)](#)

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#### [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 04:28:00
Data source version	GOMOS/6.01
Start time of products	25-09-2006 (25SEP2006 00:00:00)
Stop time of products	26-09-2006 (26SEP2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	257
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__2PRFIN20060925_000113_000000352051_00288_23889_2072.N1	25-SEP-2006 00:01:13	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	23889	No
2	GOM_NL__2PRFIN20060925_000838_000000322051_00288_23889_2073.N1	25-SEP-2006 00:08:38	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	23889	No
3	GOM_NL__2PRFIN20060925_001014_000000342051_00288_23889_2074.N1	25-SEP-2006 00:10:14	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	23889	No
4	GOM_NL__2PRFIN20060925_001622_000000362051_00288_23889_2075.N1	25-SEP-2006 00:16:22	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	23889	No
5	GOM_NL__2PRFIN20060925_001750_000000352051_00288_23889_2076.N1	25-SEP-2006 00:17:50	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	23889	No
6	GOM_NL__2PRFIN20060925_002100_000000352051_00288_23889_2077.N1	25-SEP-2006 00:21:00	Bright	34.500	174	52Psi UMa	3.0040	4400.0	69	23889	No
7	GOM_NL__2PRFIN20060925_002739_000000352051_00288_23889_2078.N1	25-SEP-2006 00:27:39	Bright	35.000	166	17Eps Leo	2.9800	6000.0	70	23889	No
8	GOM_NL__2PRFIN20060925_003659_000000402051_00288_23889_2079.N1	25-SEP-2006 00:36:59	Twilight	40.000	48	30Alp Hya	1.9770	4100.0	80	23889	No
9	GOM_NL__2PRFIN20060925_004640_000000452051_00288_23889_2080.N1	25-SEP-2006 00:46:40	Dark	44.500	65	Lam Vel	2.2040	4400.0	89	23889	No
10	GOM_NL__2PRFIN20060925_004959_000000402051_00288_23889_2081.N1	25-SEP-2006 00:49:59	Dark	40.000	46	Del Vel	1.9540	10600.	80	23889	No
11	GOM_NL__2PRFIN20060925_005133_000000392051_00288_23889_2082.N1	25-SEP-2006 00:51:33	Dark	39.000	41	Eps Car	1.8600	4100.0	78	23889	No
12	GOM_NL__2PRFIN20060925_010340_000000392051_00289_23890_2065.N1	25-SEP-2006 01:03:40	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	23890	No
13	GOM_NL__2PRFIN20060925_010508_000000442051_00289_23890_2066.N1	25-SEP-2006 01:05:08	Dark	43.500	9	Alp Eri	0.45300	24000.	87	23890	No
14	GOM_NL__2PRFIN20060925_011054_000000382051_00289_23890_2067.N1	25-SEP-2006 01:10:54	Straylight	38.000	63	Bet Gru	2.1500	2800.0	76	23890	No
15	GOM_NL__2PRFIN20060925_011529_000000442051_00289_23890_2068.N1	25-SEP-2006 01:15:29	Straylight	44.000	18	24Alp PsA	1.1660	9700.0	88	23890	No
16	GOM_NL__2PRFIN20060925_012409_000000372051_00289_23890_2069.N1	25-SEP-2006 01:24:09	Bright	37.000	162	34Alp Aqr	2.9440	5350.0	74	23890	No
17	GOM_NL__2PRFIN20060925_012811_000000382051_00289_23890_2070.N1	25-SEP-2006 01:28:11	Bright	37.500	90	54Alp Peg	2.4870	11000.	75	23890	No
18	GOM_NL__2PRFIN20060925_013227_000000362051_00289_23890_2071.N1	25-SEP-2006 01:32:27	Bright	36.000	164	44Eta Peg	2.9480	5400.0	72	23890	No
19	GOM_NL__2PRFIN20060925_014149_000000362051_00289_23890_2072.N1	25-SEP-2006 01:41:49	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	23890	No
20	GOM_NL__2PRFIN20060925_014914_000000362051_00289_23890_2073.N1	25-SEP-2006 01:49:14	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23890	No
21	GOM_NL__2PRFIN20060925_015051_000000372051_00289_23890_2074.N1	25-SEP-2006 01:50:51	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	23890	No
22	GOM_NL__2PRFIN20060925_015658_000000372051_00289_23890_2075.N1	25-SEP-2006 01:56:58	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	23890	No
23	GOM_NL__2PRFIN20060925_015827_000000352051_00289_23890_2076.N1	25-SEP-2006 01:58:27	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	23890	No
24	GOM_NL__2PRFIN20060925_020136_000000352051_00289_23890_2077.N1	25-SEP-2006 02:01:36	Bright	34.500	174	52Psi UMa	3.0040	4400.0	69	23890	No
25	GOM_NL__2PRFIN20060925_020815_000000332051_00289_23890_2078.N1	25-SEP-2006 02:08:15	Bright	33.000	166	17Eps Leo	2.9800	6000.0	66	23890	No
26	GOM_NL__2PRFIN20060925_021735_000000502051_00289_23890_2079.N1	25-SEP-2006 02:17:35	Twilight	49.500	48	30Alp Hya	1.9770	4100.0	99	23890	No
27	GOM_NL__2PRFIN20060925_022717_000000432051_00289_23890_2080.N1	25-SEP-2006 02:27:17	Dark	43.000	65	Lam Vel	2.2040	4400.0	86	23890	No
28	GOM_NL__2PRFIN20060925_023035_000000392051_00289_23890_2081.N1	25-SEP-2006 02:30:35	Dark	39.000	46	Del Vel	1.9540	10600.	78	23890	No
29	GOM_NL__2PRFIN20060925_023210_000000392051_00289_23890_2082.N1	25-SEP-2006 02:32:10	Dark	38.500	41	Eps Car	1.8600	4100.0	77	23890	No
30	GOM_NL__2PRFIN20060925_024416_000000412051_00290_23891_2065.N1	25-SEP-2006 02:44:16	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	23891	No
31	GOM_NL__2PRFIN20060925_024544_000000522051_00290_23891_2066.N1	25-SEP-2006 02:45:44	Dark	52.000	9	Alp Eri	0.45300	24000.	104	23891	No
32	GOM_NL__2PRFIN20060925_025130_000000512051_00290_23891_2067.N1	25-SEP-2006 02:51:30	Straylight	50.500	63	Bet Gru	2.1500	2800.0	101	23891	No
33	GOM_NL__2PRFIN20060925_025606_000000432051_00290_23891_2068.N1	25-SEP-2006 02:56:06	Straylight	43.000	18	24Alp PsA	1.1660	9700.0	86	23891	No
34	GOM_NL__2PRFIN20060925_030445_000000372051_00290_23891_2069.N1	25-SEP-2006 03:04:45	Bright	37.000	162	34Alp Aqr	2.9440	5350.0	74	23891	No
35	GOM_NL__2PRFIN20060925_030847_000000362051_00290_23891_2070.N1	25-SEP-2006 03:08:47	Bright	36.000	90	54Alp Peg	2.4870	11000.	72	23891	No
36	GOM_NL__2PRFIN20060925_031303_000000382051_00290_23891_2071.N1	25-SEP-2006 03:13:03	Bright	37.500	164	44Eta Peg	2.9480	5400.0	75	23891	No
37	GOM_NL__2PRFIN20060925_032225_000000362051_00290_23891_2072.N1	25-SEP-2006 03:22:25	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	23891	No
38	GOM_NL__2PRFIN20060925_032949_000000362051_00290_23891_2073.N1	25-SEP-2006 03:29:49	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	23891	No
39	GOM_NL__2PRFIN20060925_033127_000000532051_00290_23891_2074.N1	25-SEP-2006 03:31:27	Bright	52.500	60	7Bet UMi	2.0810	3950.0	105	23891	No
40	GOM_NL__2PRFIN20060925_033734_000000362051_00290_23891_2075.N1	25-SEP-2006 03:37:34	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	23891	No
41	GOM_NL__2PRFIN20060925_033903_000000352051_00290_23891_2076.N1	25-SEP-2006 03:39:03	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	23891	No
42	GOM_NL__2PRFIN20060925_034212_000000352051_00290_23891_2077.N1	25-SEP-2006 03:42:12	Bright	34.500	174	52Psi UMa	3.0040	4400.0	69	23891	No







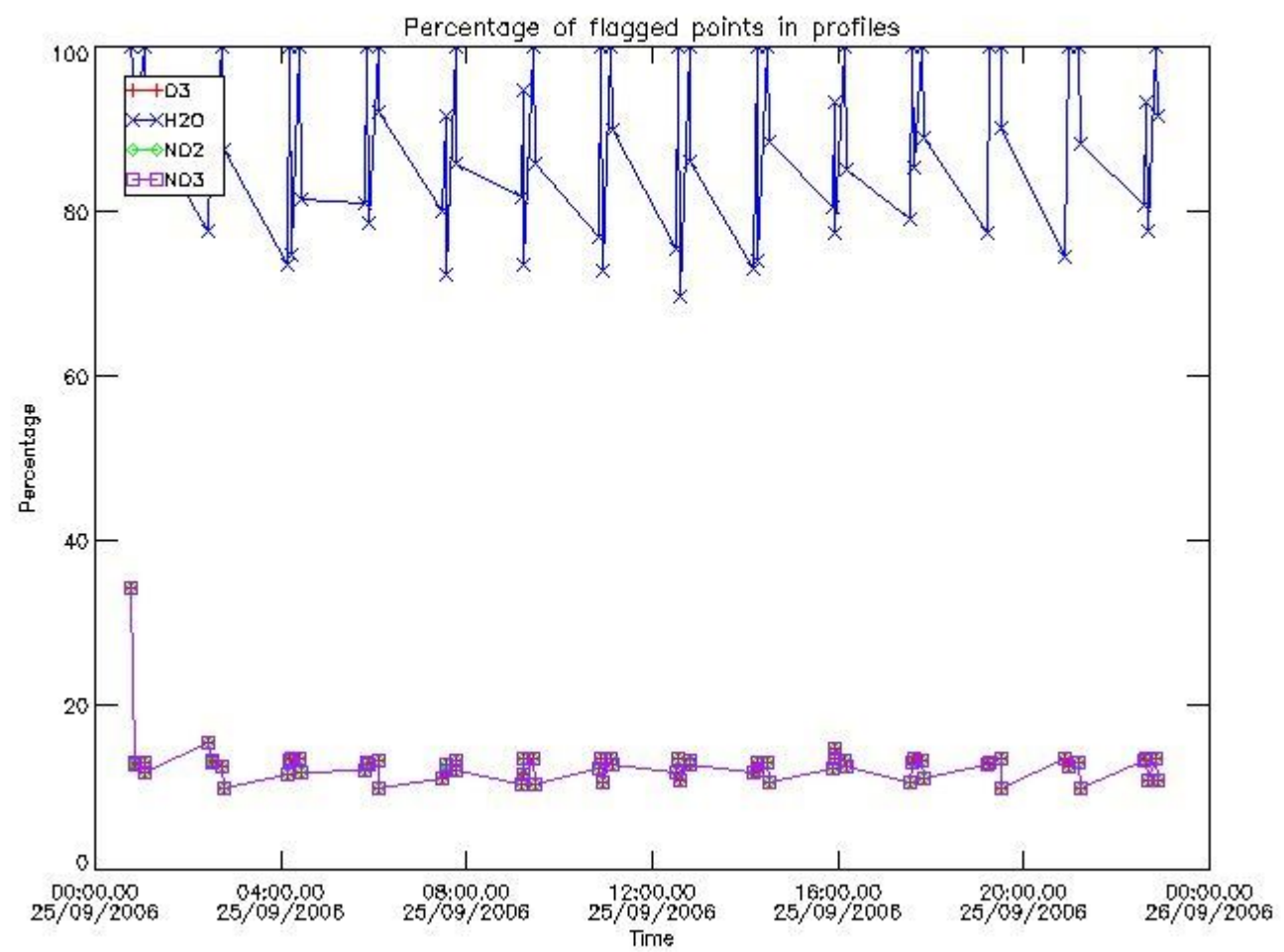


220	GOM_NL__2PRFIN20060925_202504_000000342051_00300_23901_2096.N1	25-SEP-2006 20:25:04	Bright	33.500	82	48Bet UMa	2.3650	10600.	67	23901	No
221	GOM_NL__2PRFIN20060925_202814_000000352051_00300_23901_2097.N1	25-SEP-2006 20:28:14	Bright	35.000	174	52Psi UMa	3.0040	4400.0	70	23901	No
222	GOM_NL__2PRFIN20060925_203452_000000352051_00300_23901_2098.N1	25-SEP-2006 20:34:52	Bright	34.500	166	17Eps Leo	2.9800	6000.0	69	23901	No
223	GOM_NL__2PRFIN20060925_204414_000000442051_00300_23901_2099.N1	25-SEP-2006 20:44:14	Twilight	44.000	48	30Alp Hya	1.9770	4100.0	88	23901	No
224	GOM_NL__2PRFIN20060925_205355_000000422051_00300_23901_2100.N1	25-SEP-2006 20:53:55	Dark	41.500	65	Lam Vel	2.2040	4400.0	83	23901	No
225	GOM_NL__2PRFIN20060925_205714_000000412051_00300_23901_2101.N1	25-SEP-2006 20:57:14	Dark	40.500	46	Del Vel	1.9540	10600.	81	23901	No
226	GOM_NL__2PRFIN20060925_211057_000000392051_00301_23902_2085.N1	25-SEP-2006 21:10:57	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	23902	No
227	GOM_NL__2PRFIN20060925_211224_000000512051_00301_23902_2086.N1	25-SEP-2006 21:12:24	Dark	51.000	9	Alp Eri	0.45300	24000.	102	23902	No
228	GOM_NL__2PRFIN20060925_211807_000000422051_00301_23902_2087.N1	25-SEP-2006 21:18:07	Straylight	42.000	63	Bet Gru	2.1500	2800.0	84	23902	No
229	GOM_NL__2PRFIN20060925_212243_000000432051_00301_23902_2088.N1	25-SEP-2006 21:22:43	Straylight	43.000	18	24Alp PsA	1.1660	9700.0	86	23902	No
230	GOM_NL__2PRFIN20060925_213122_000000382051_00301_23902_2089.N1	25-SEP-2006 21:31:22	Bright	38.000	162	34Alp Aqr	2.9440	5350.0	76	23902	No
231	GOM_NL__2PRFIN20060925_213522_000000372051_00301_23902_2090.N1	25-SEP-2006 21:35:22	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	23902	No
232	GOM_NL__2PRFIN20060925_213905_000000382051_00301_23902_2091.N1	25-SEP-2006 21:39:05	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	23902	No
233	GOM_NL__2PRFIN20060925_214902_000000362051_00301_23902_2092.N1	25-SEP-2006 21:49:02	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	23902	No
234	GOM_NL__2PRFIN20060925_215625_000000362051_00301_23902_2093.N1	25-SEP-2006 21:56:25	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23902	No
235	GOM_NL__2PRFIN20060925_215805_000000372051_00301_23902_2094.N1	25-SEP-2006 21:58:05	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	23902	No
236	GOM_NL__2PRFIN20060925_220411_000000382051_00301_23902_2095.N1	25-SEP-2006 22:04:11	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	23902	No
237	GOM_NL__2PRFIN20060925_220540_000000352051_00301_23902_2096.N1	25-SEP-2006 22:05:40	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	23902	No
238	GOM_NL__2PRFIN20060925_220850_000000342051_00301_23902_2097.N1	25-SEP-2006 22:08:50	Bright	33.500	174	52Psi UMa	3.0040	4400.0	67	23902	No
239	GOM_NL__2PRFIN20060925_221529_000000362051_00301_23902_2098.N1	25-SEP-2006 22:15:29	Bright	35.500	166	17Eps Leo	2.9800	6000.0	71	23902	No
240	GOM_NL__2PRFIN20060925_222450_000000422051_00301_23902_2099.N1	25-SEP-2006 22:24:50	Twilight	42.000	48	30Alp Hya	1.9770	4100.0	84	23902	No
241	GOM_NL__2PRFIN20060925_223431_000000422051_00301_23902_2100.N1	25-SEP-2006 22:34:31	Dark	42.000	65	Lam Vel	2.2040	4400.0	84	23902	No
242	GOM_NL__2PRFIN20060925_223750_000000382051_00301_23902_2101.N1	25-SEP-2006 22:37:50	Dark	37.500	46	Del Vel	1.9540	10600.	75	23902	No
243	GOM_NL__2PRFIN20060925_223925_000000482051_00301_23902_2102.N1	25-SEP-2006 22:39:25	Dark	47.500	41	Eps Car	1.8600	4100.0	95	23902	No
244	GOM_NL__2PRFIN20060925_225133_000000382051_00302_23903_2105.N1	25-SEP-2006 22:51:33	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	23903	No
245	GOM_NL__2PRFIN20060925_225300_000000482051_00302_23903_2106.N1	25-SEP-2006 22:53:00	Dark	47.500	9	Alp Eri	0.45300	24000.	95	23903	No
246	GOM_NL__2PRFIN20060925_225843_000000452051_00302_23903_2107.N1	25-SEP-2006 22:58:43	Straylight	44.500	63	Bet Gru	2.1500	2800.0	89	23903	No
247	GOM_NL__2PRFIN20060925_230319_000000412051_00302_23903_2108.N1	25-SEP-2006 23:03:19	Straylight	41.000	18	24Alp PsA	1.1660	9700.0	82	23903	No
248	GOM_NL__2PRFIN20060925_231159_000000372051_00302_23903_2109.N1	25-SEP-2006 23:11:59	Bright	37.000	162	34Alp Aqr	2.9440	5350.0	74	23903	No
249	GOM_NL__2PRFIN20060925_231558_000000372051_00302_23903_2110.N1	25-SEP-2006 23:15:58	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	23903	No
250	GOM_NL__2PRFIN20060925_231940_000000402051_00302_23903_2111.N1	25-SEP-2006 23:19:40	Bright	39.500	93	53Bet Peg	2.5200	3100.0	79	23903	No
251	GOM_NL__2PRFIN20060925_232938_000000352051_00302_23903_2112.N1	25-SEP-2006 23:29:38	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	23903	No
252	GOM_NL__2PRFIN20060925_233701_000000342051_00302_23903_2113.N1	25-SEP-2006 23:37:01	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	23903	No
253	GOM_NL__2PRFIN20060925_233842_000000352051_00302_23903_2114.N1	25-SEP-2006 23:38:42	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	23903	No
254	GOM_NL__2PRFIN20060925_234447_000000372051_00302_23903_2115.N1	25-SEP-2006 23:44:47	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	23903	No
255	GOM_NL__2PRFIN20060925_234616_000000362051_00302_23903_2116.N1	25-SEP-2006 23:46:16	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	23903	No
256	GOM_NL__2PRFIN20060925_234926_000000342051_00302_23903_2117.N1	25-SEP-2006 23:49:26	Bright	34.000	174	52Psi UMa	3.0040	4400.0	68	23903	No
257	GOM_NL__2PRFIN20060925_235605_000000472051_00302_23903_2118.N1	25-SEP-2006 23:56:05	Bright	46.500	166	17Eps Leo	2.9800	6000.0	93	23903	No

### 3. Quality information per product

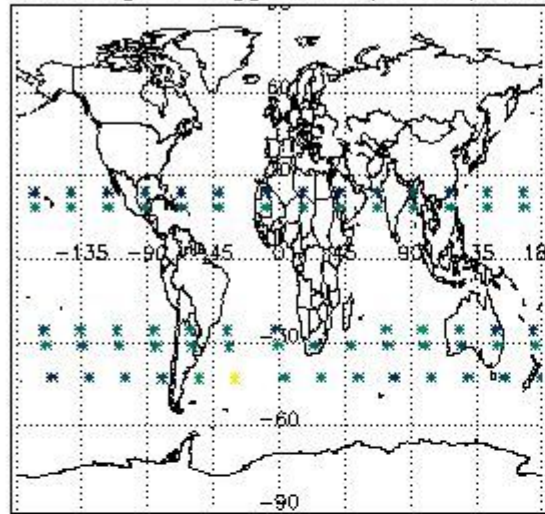
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

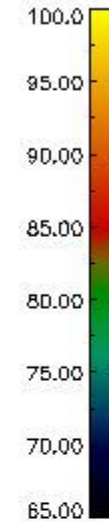
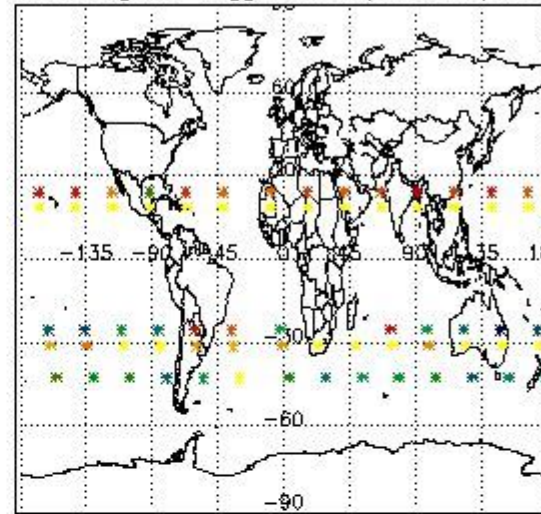


3.2 Plot quality information per product (world map)

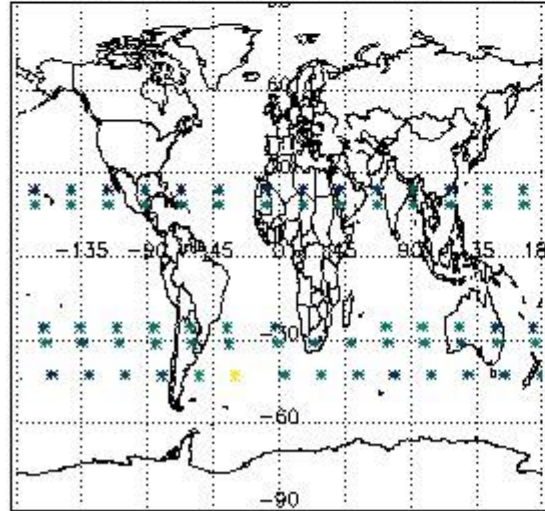
Percentage of flagged data per O3 profile



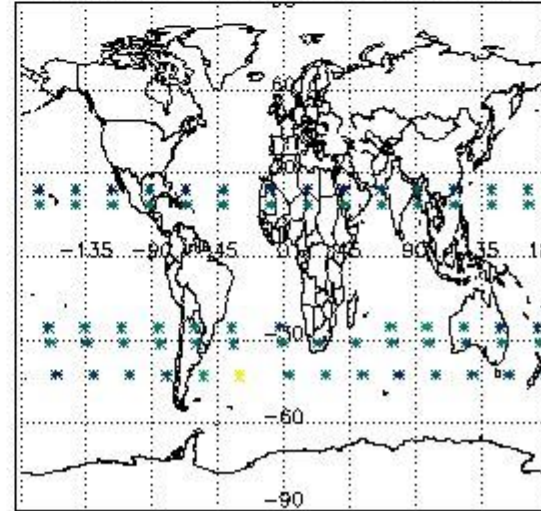
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

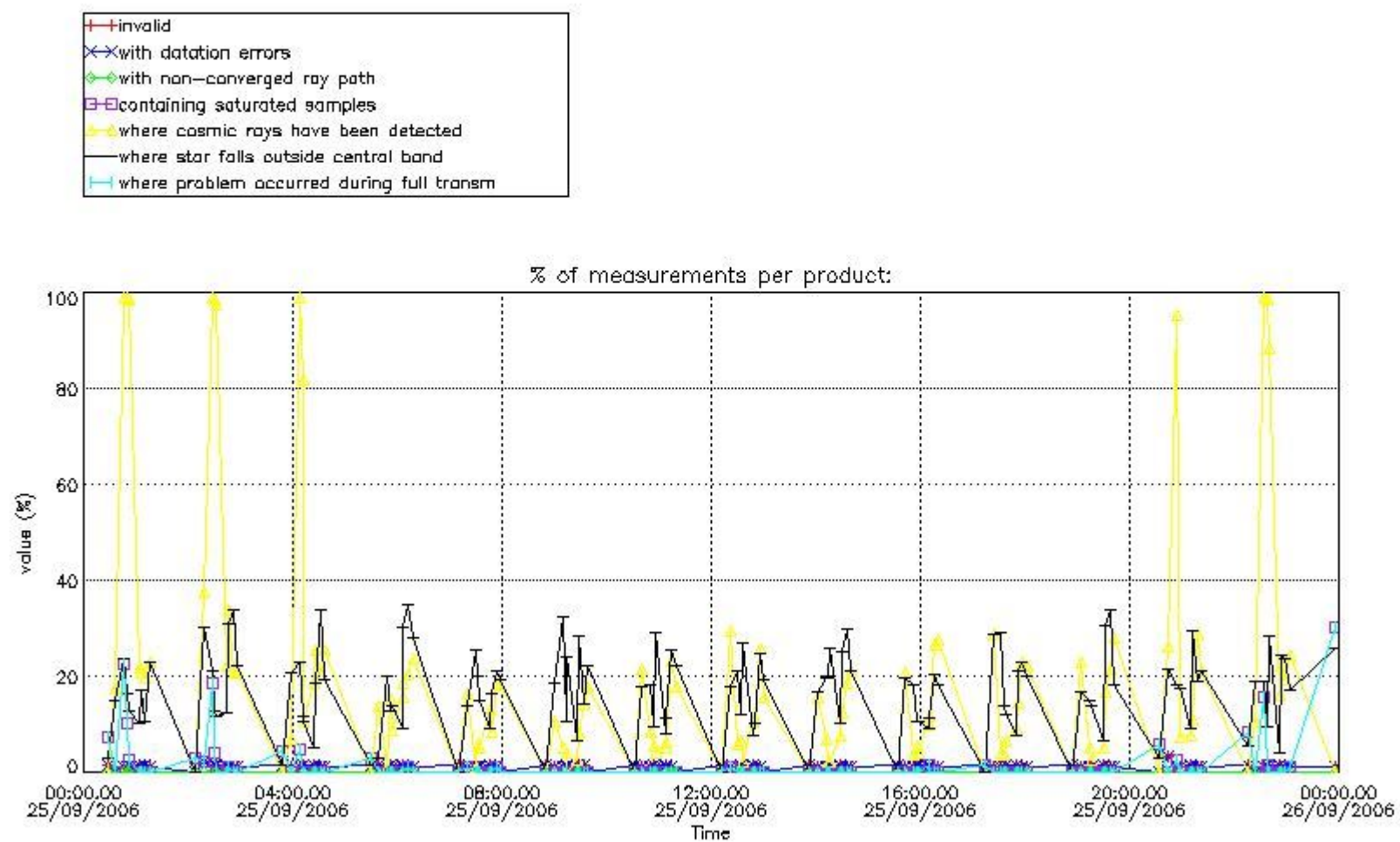


#### 4. Level 1 quality information per product

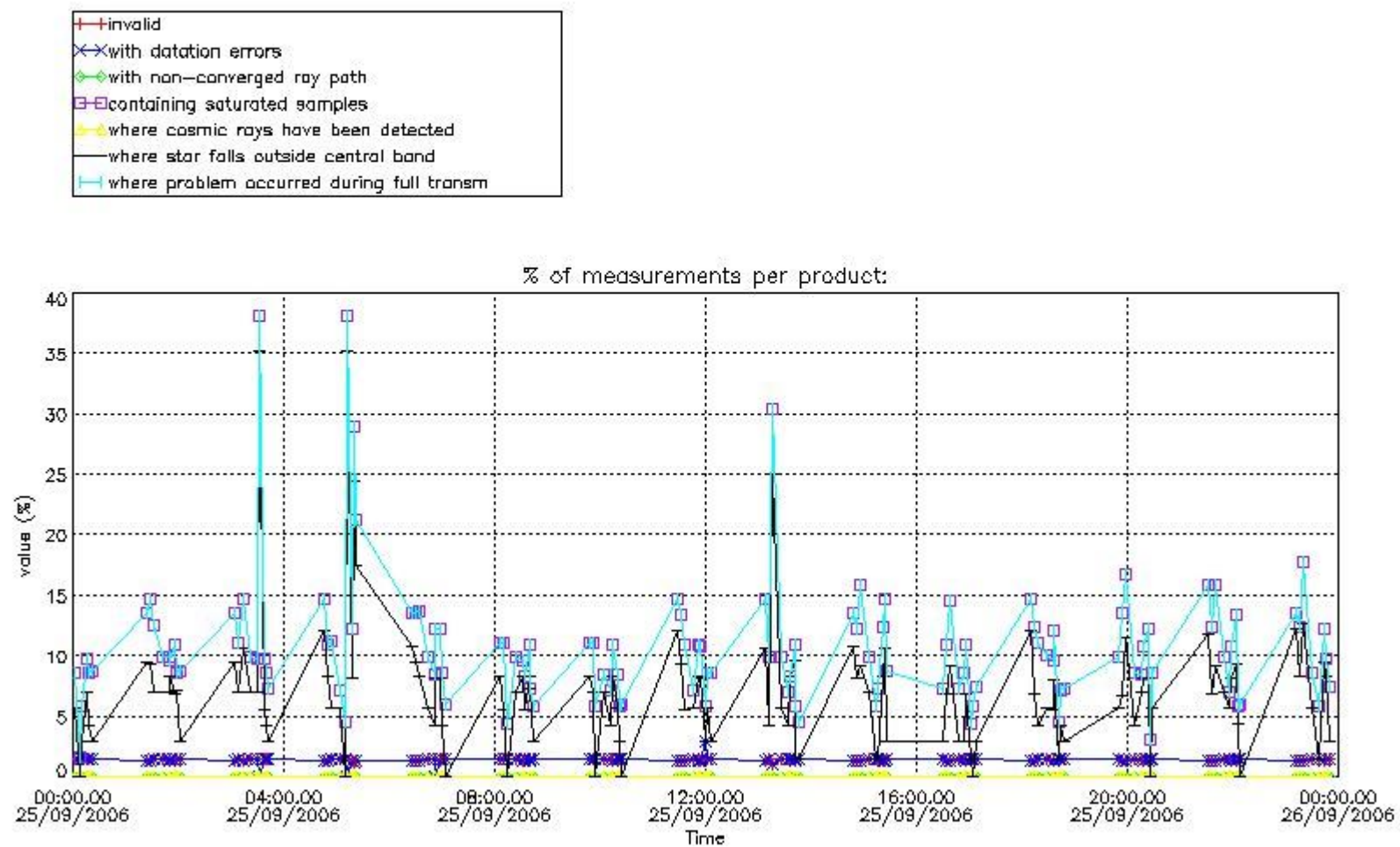
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



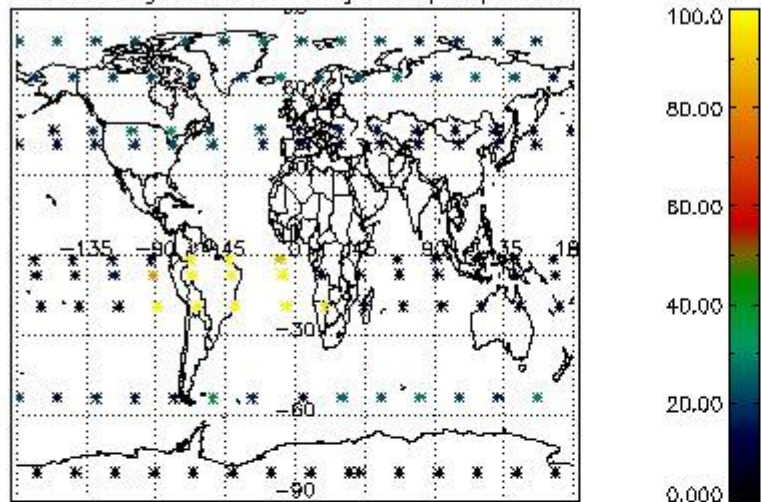
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



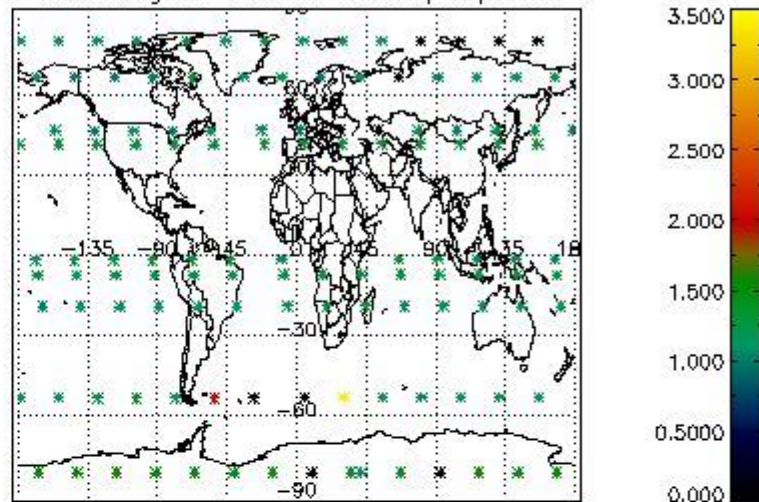
4.2 Plot quality information per product coming from level 1b processing (world map)

4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes

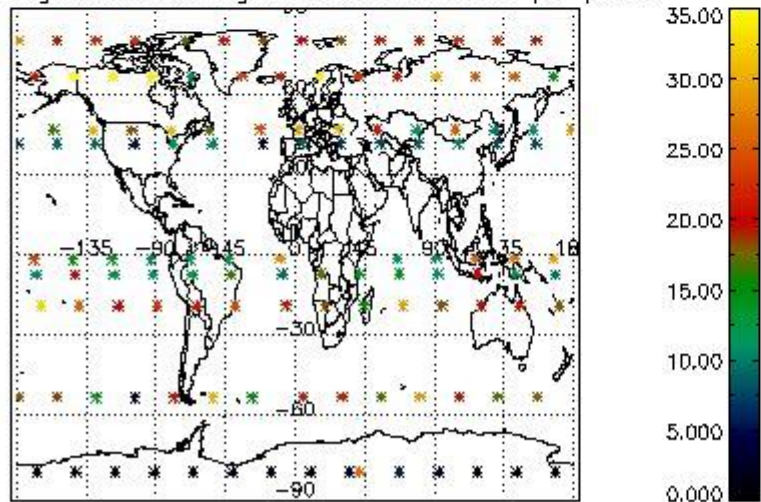
Percentage of cosmic ray hits per profile



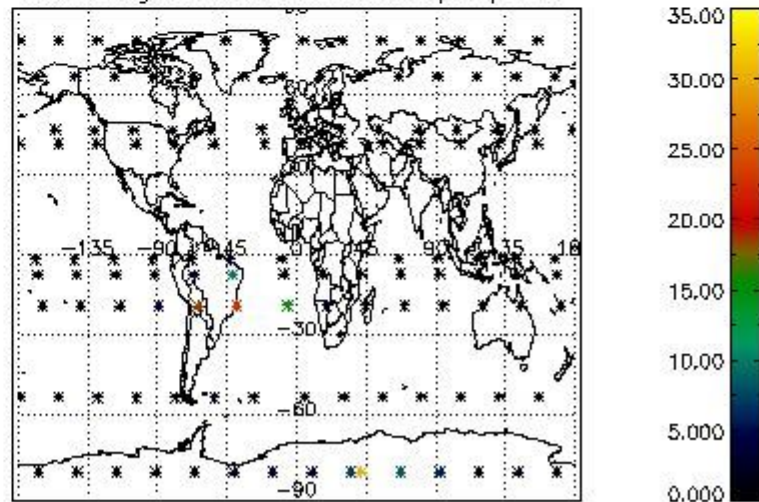
Percentage of datation errors per profile



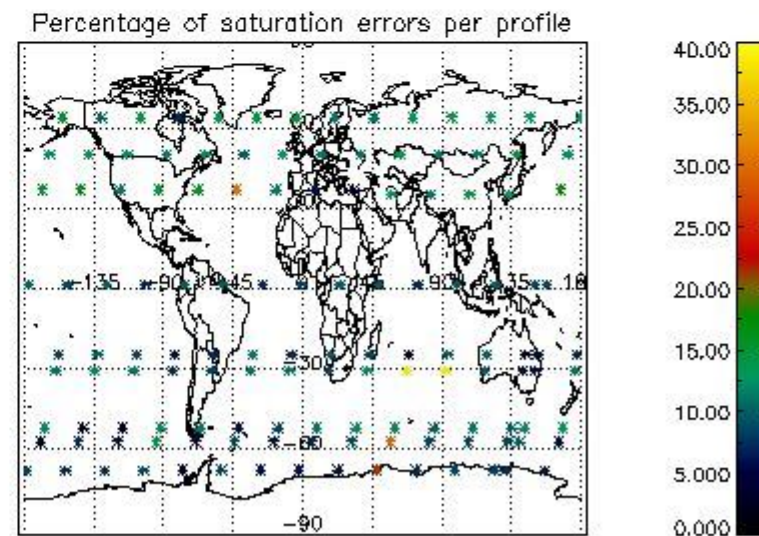
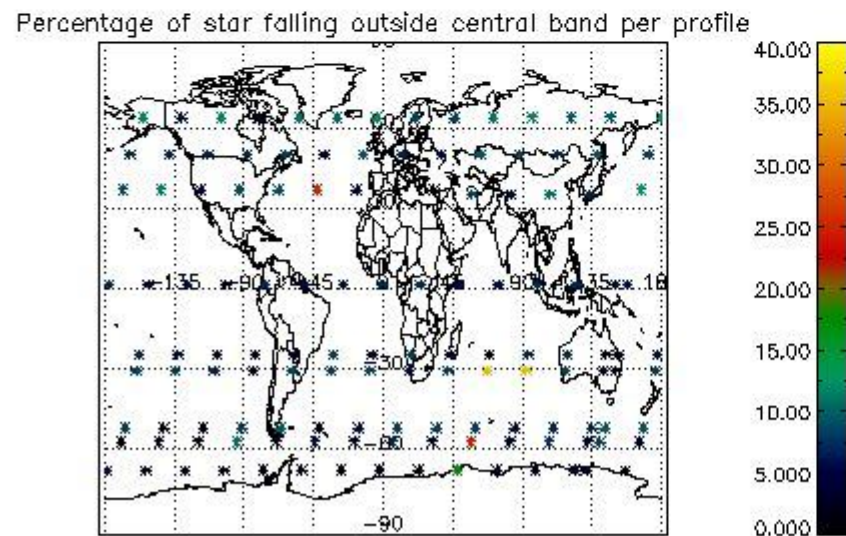
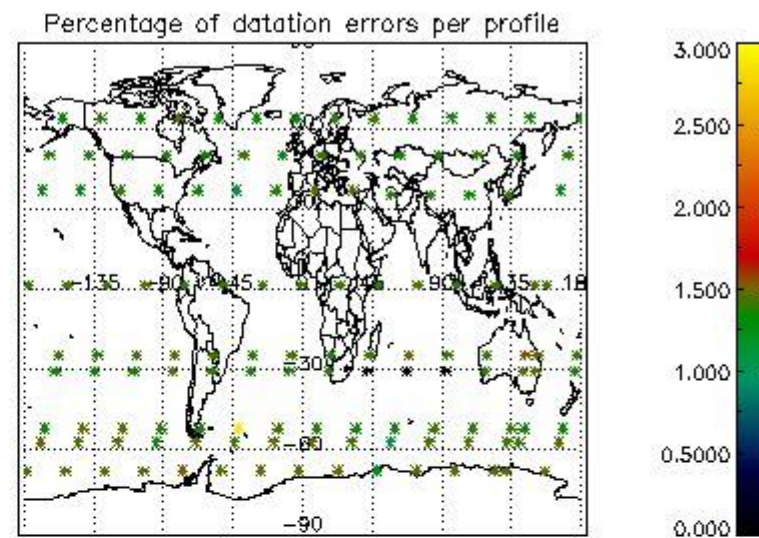
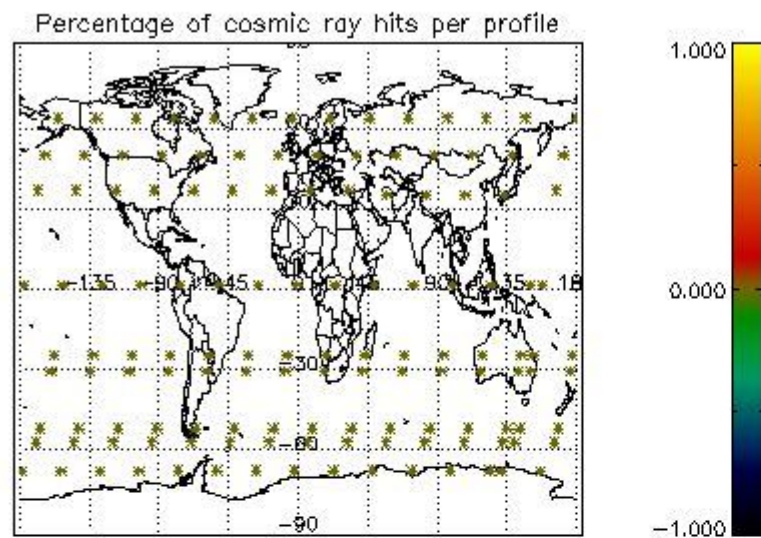
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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

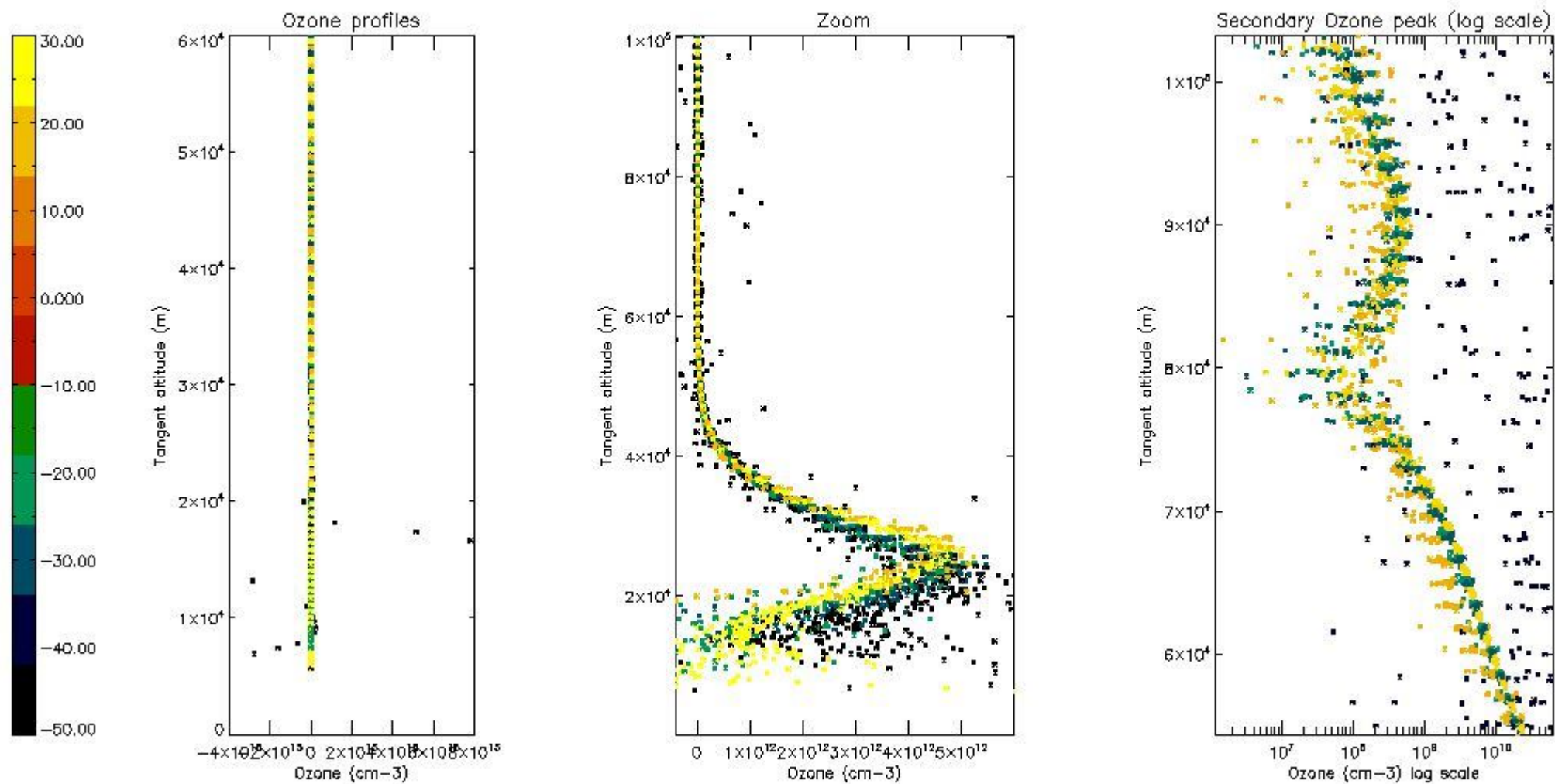
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	29
STD < 20	15

STD < 10	12
STD < 5	6

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

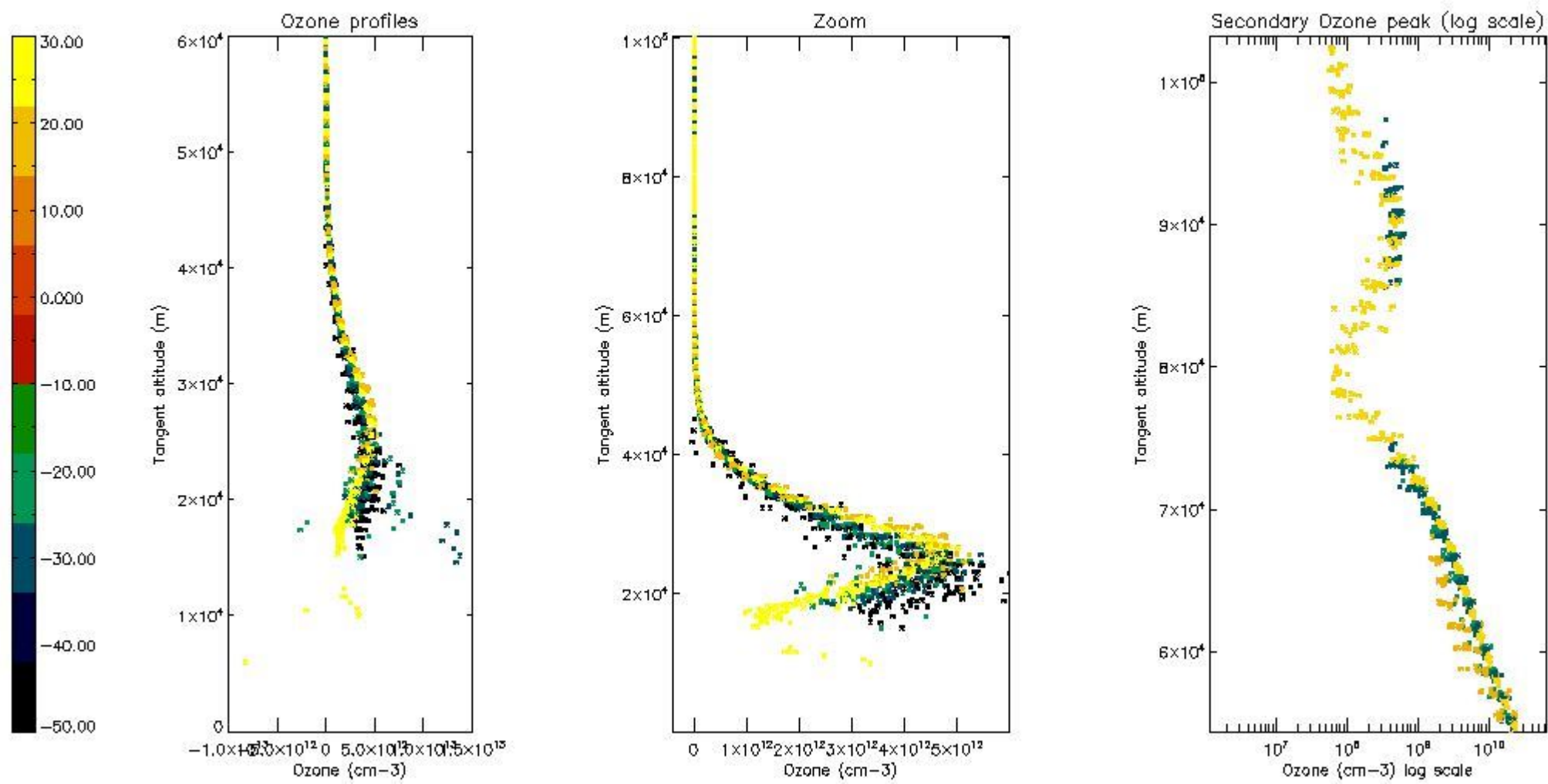
The colorbar represents the latitude.



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

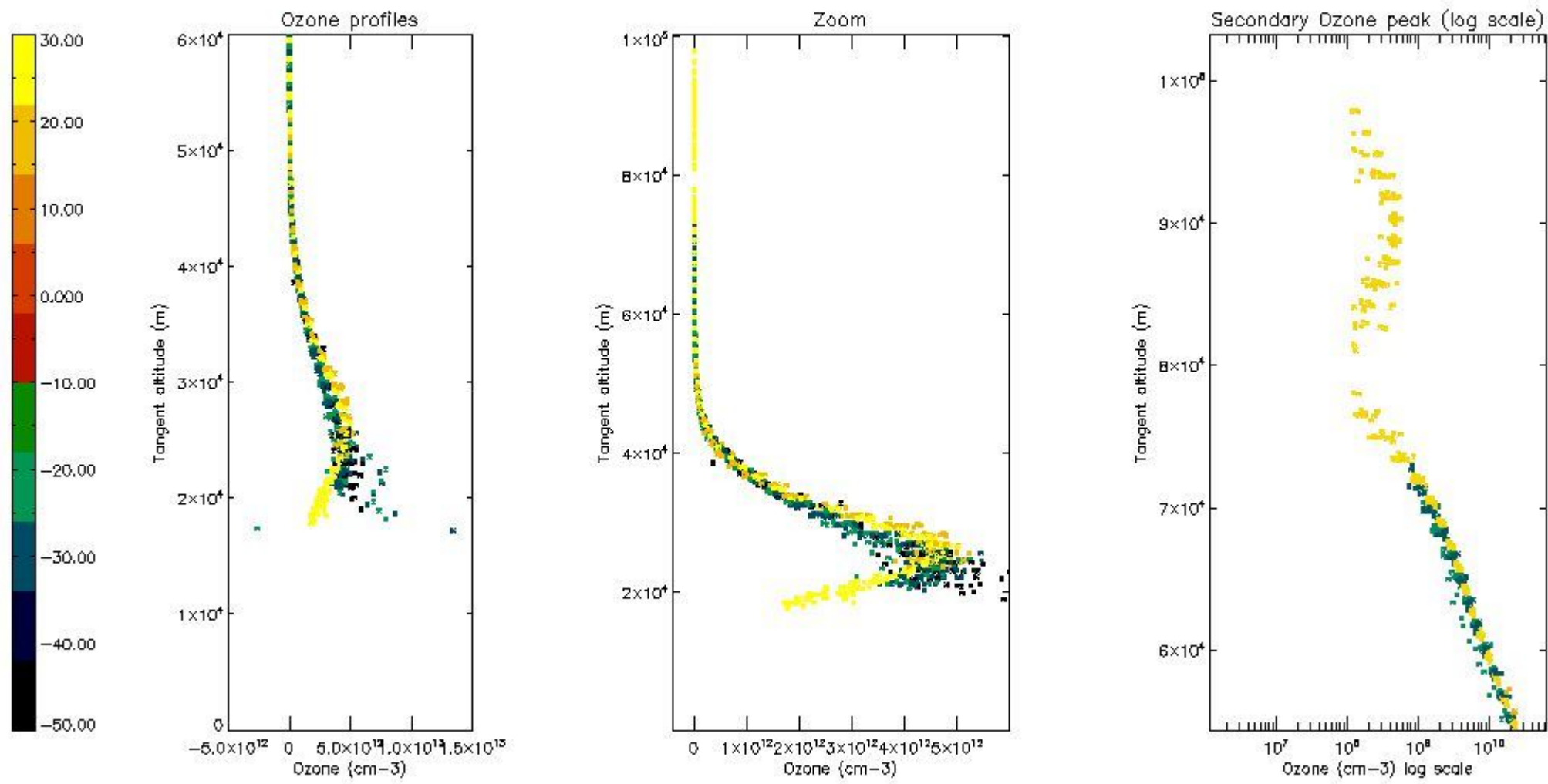
The colorbar represents the latitude.





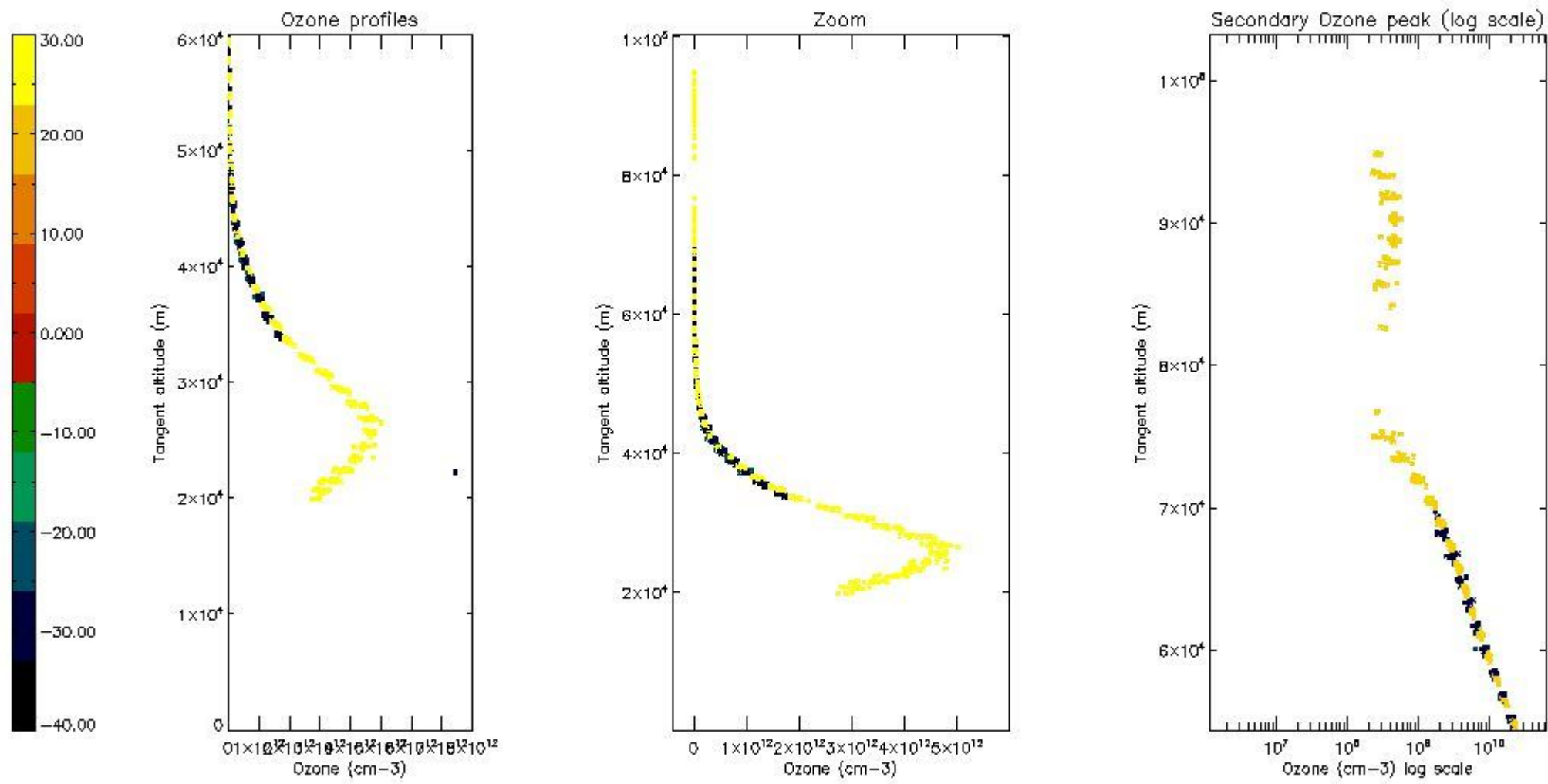
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



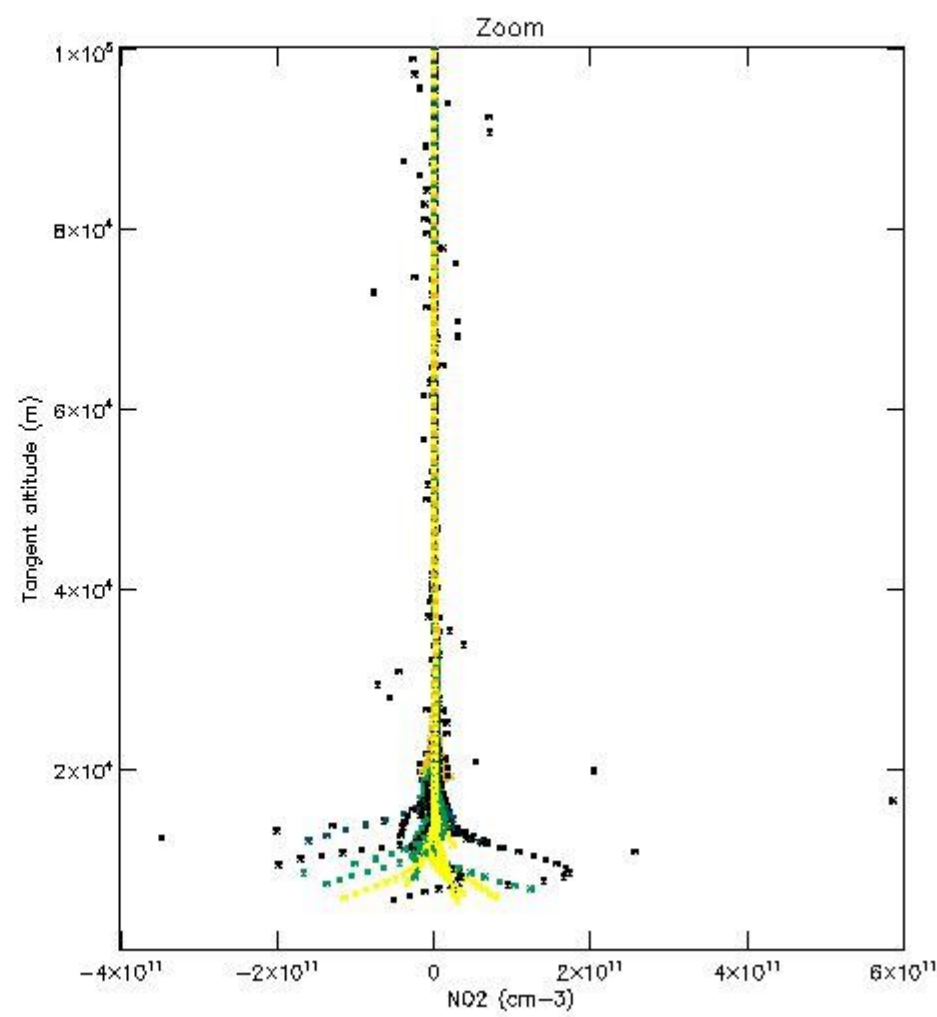
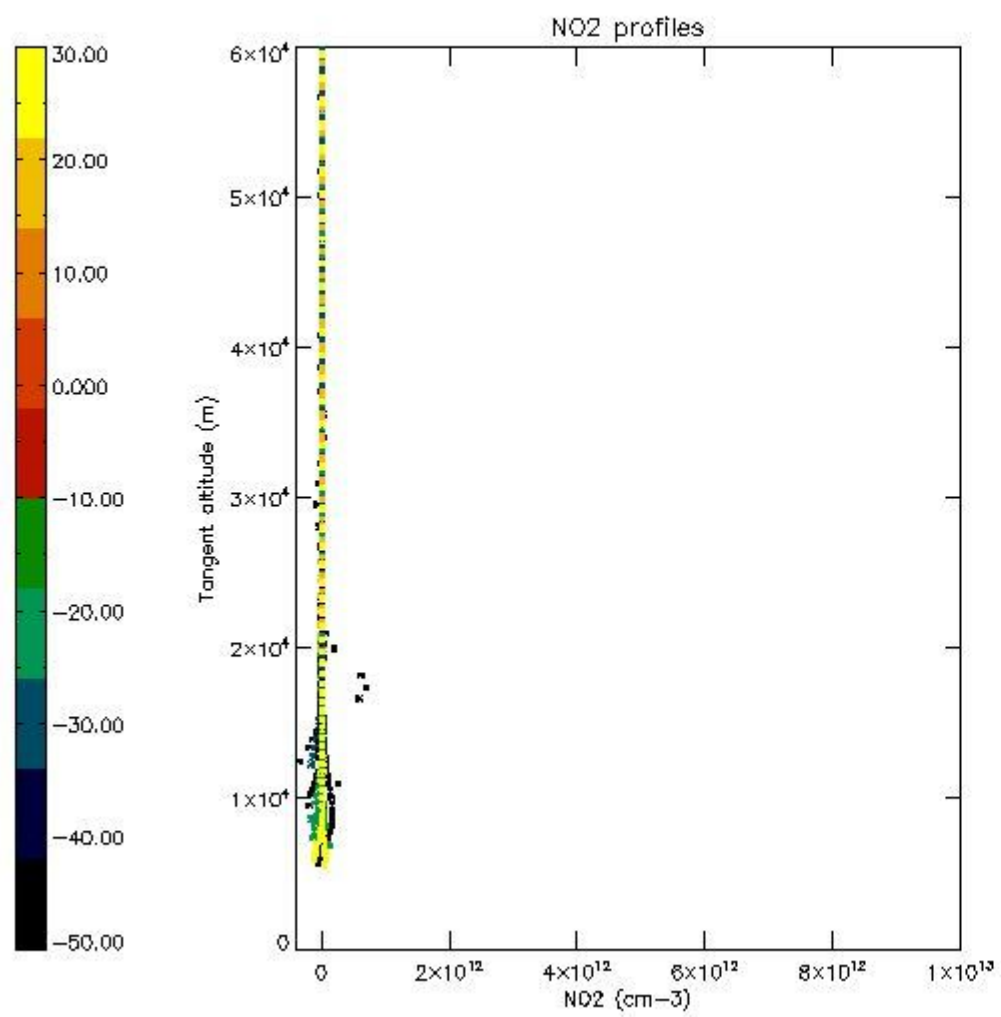
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



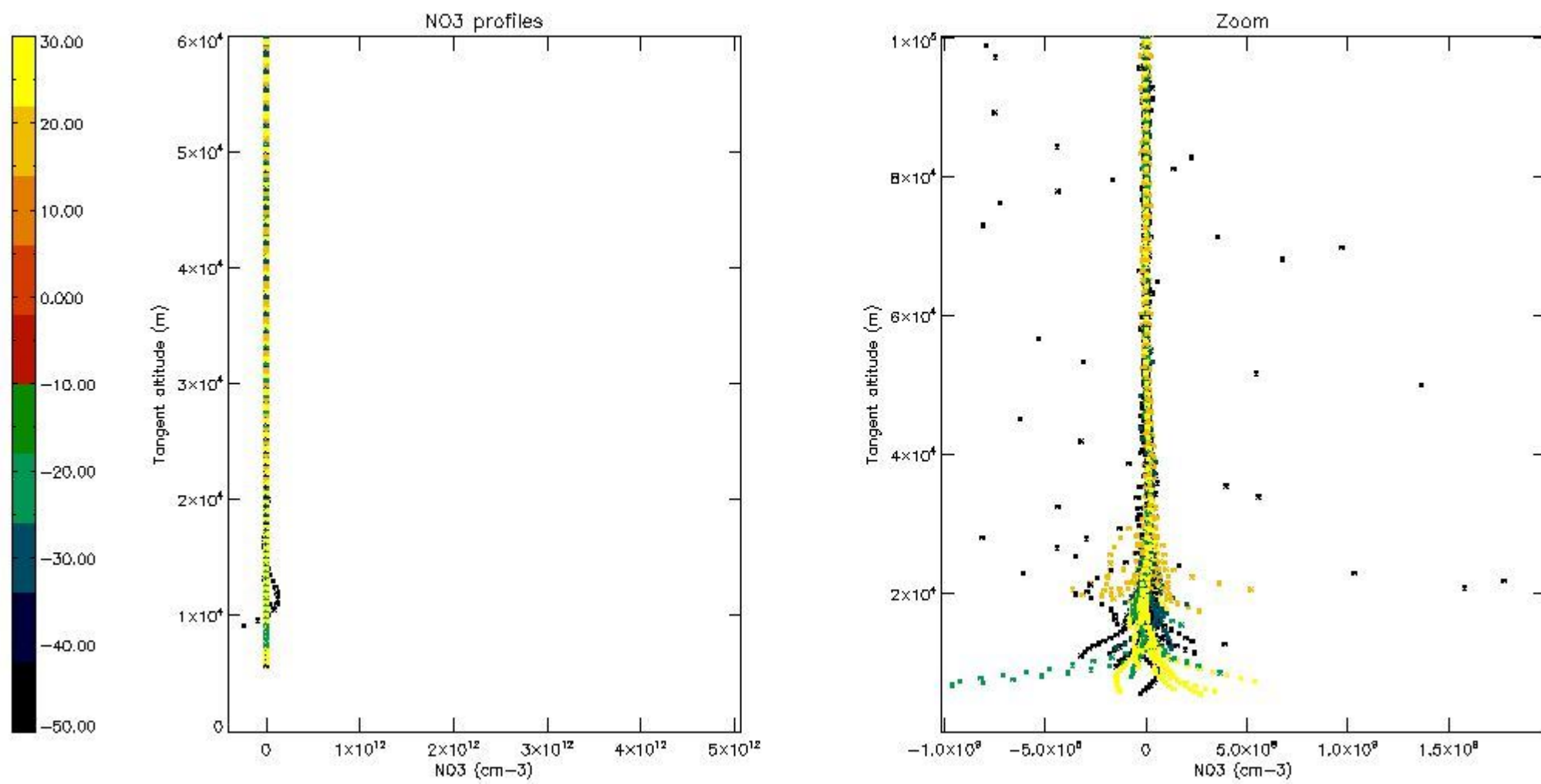
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



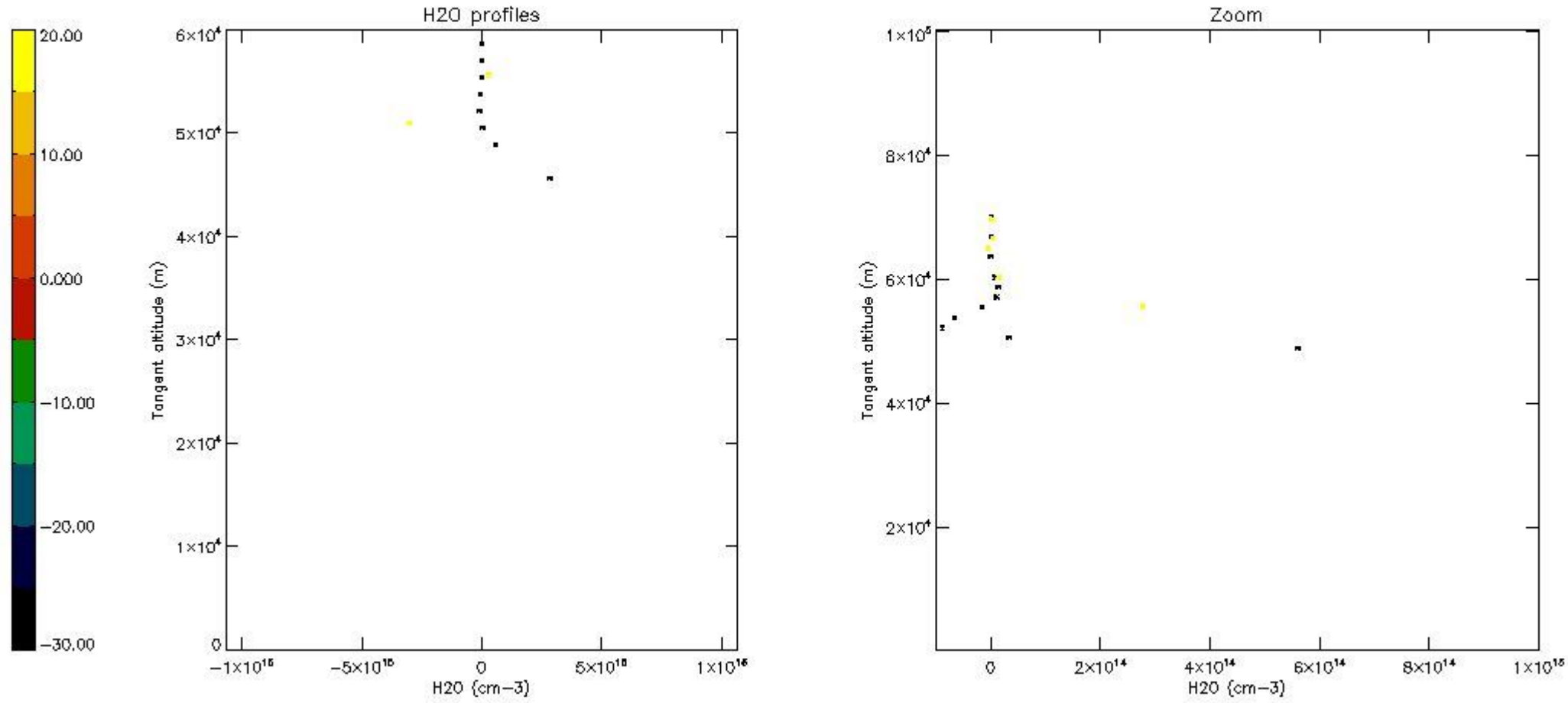
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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)

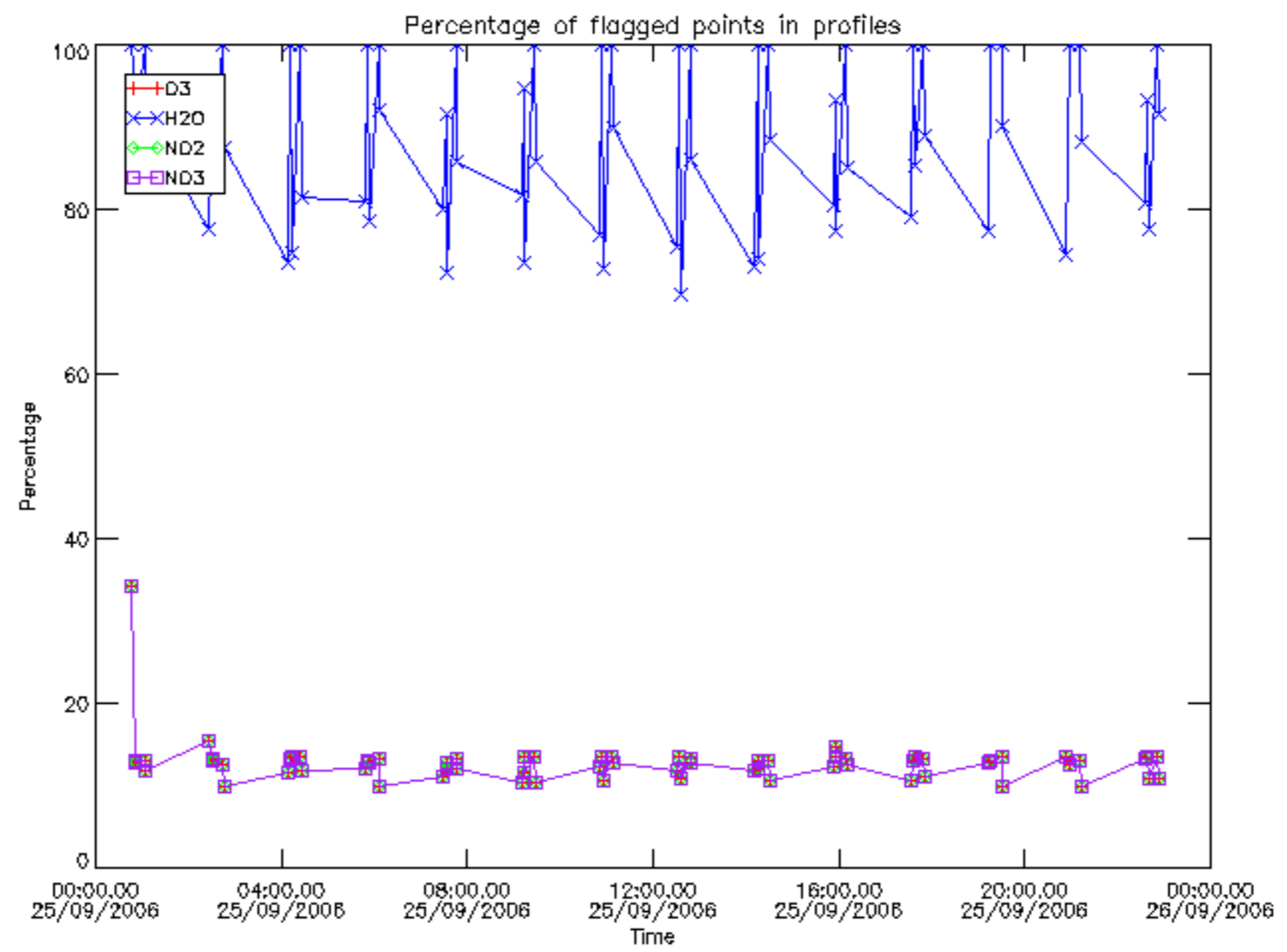
The colorbar represents the latitude.



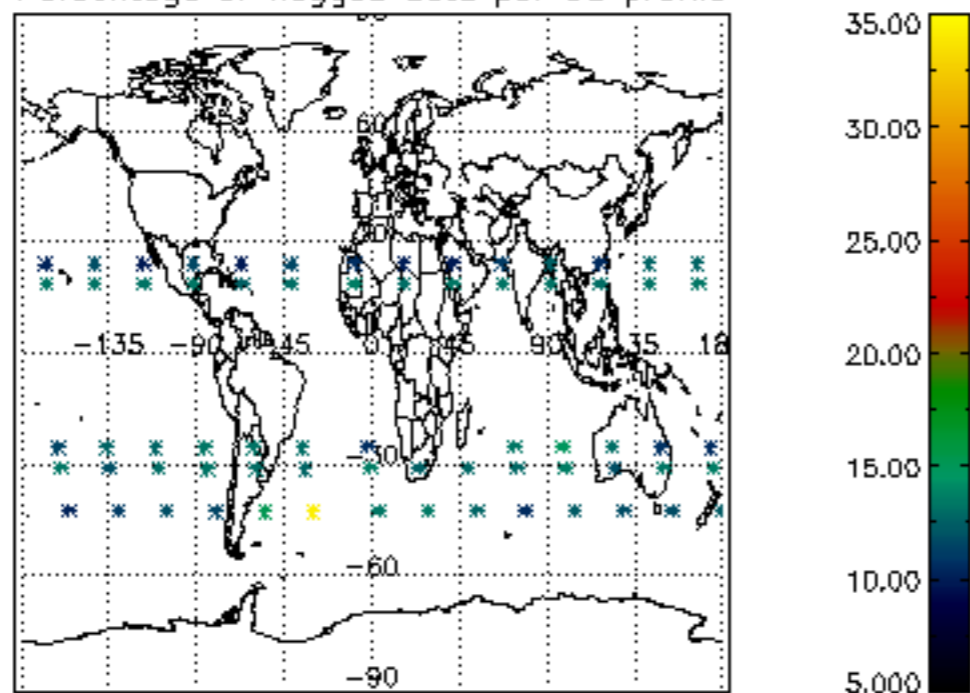
## 6. Auxiliary Data Files used for the production reported in section 2

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.

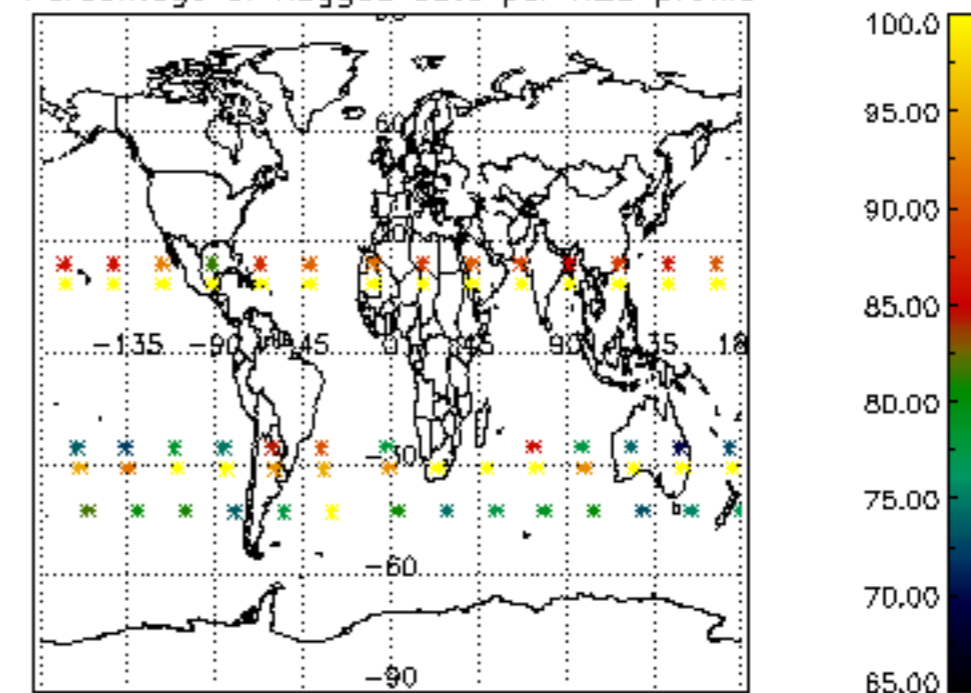
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	25-SEP-2006 00:01:13
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	25-SEP-2006 00:01:13
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	25-SEP-2006 00:01:13



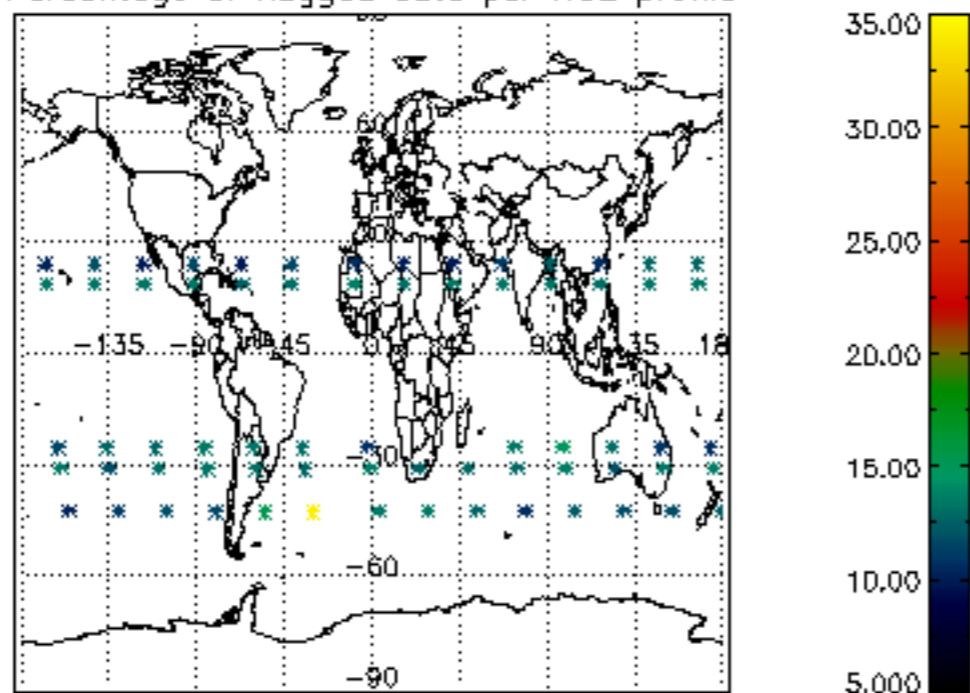
Percentage of flagged data per D3 profile



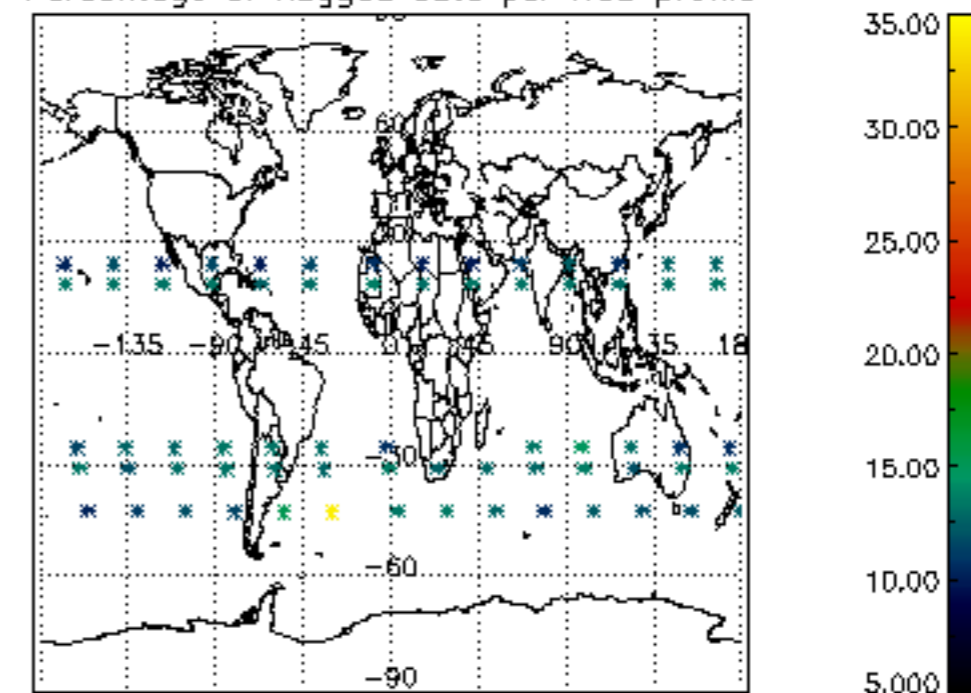
Percentage of flagged data per H2O profile



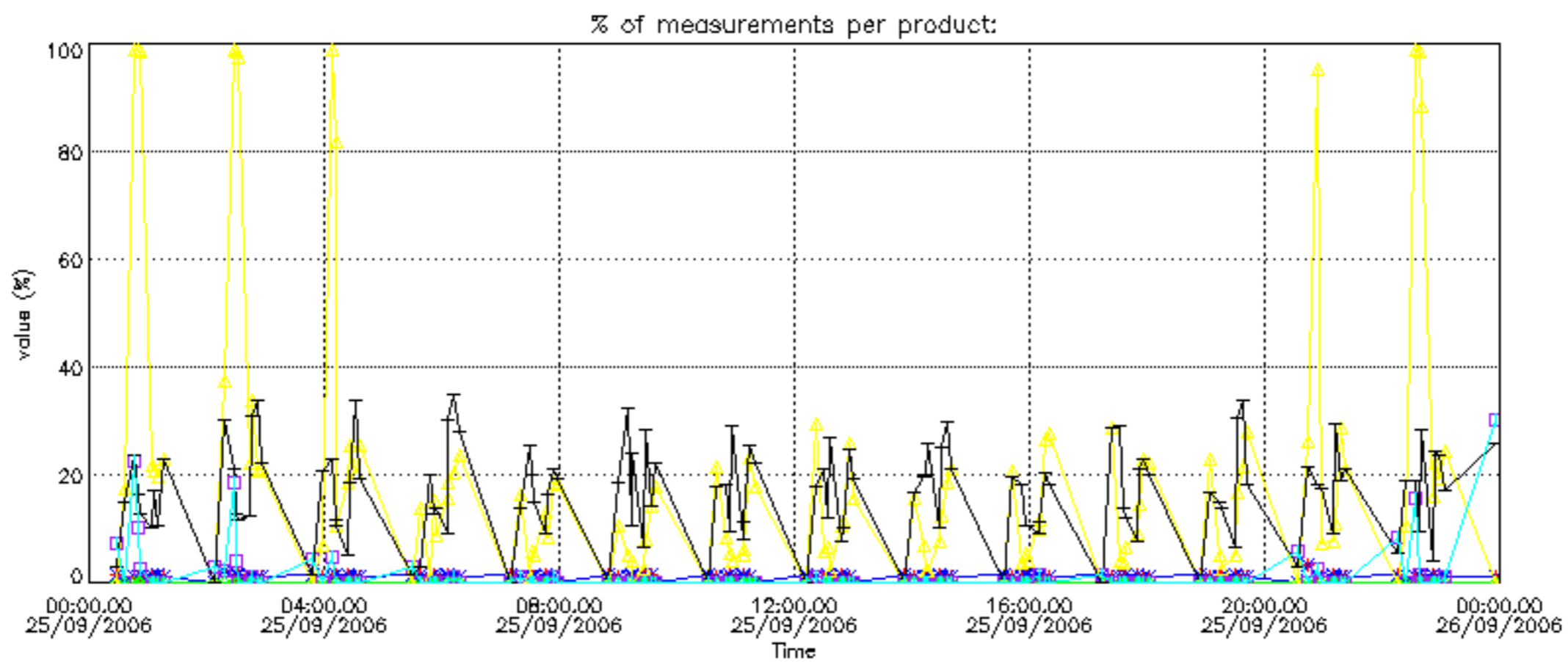
Percentage of flagged data per NO2 profile

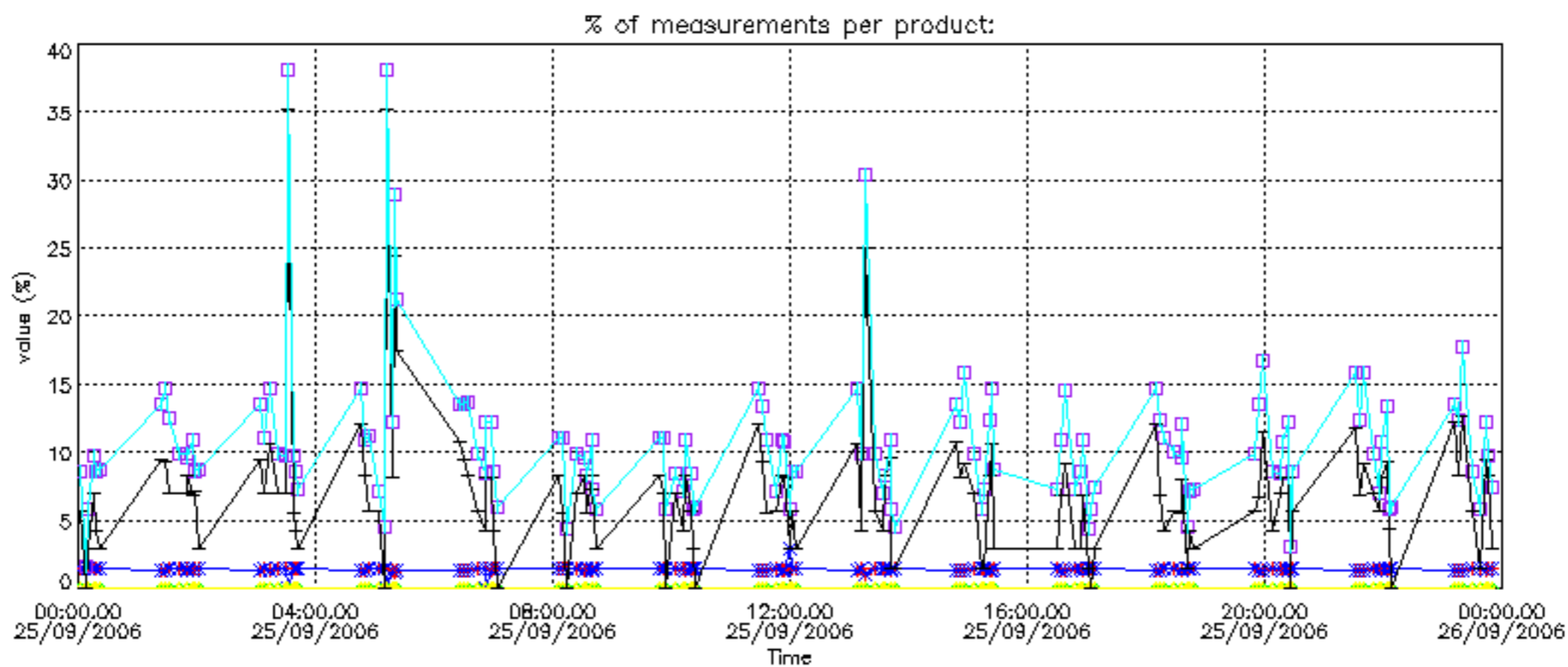


Percentage of flagged data per NO3 profile

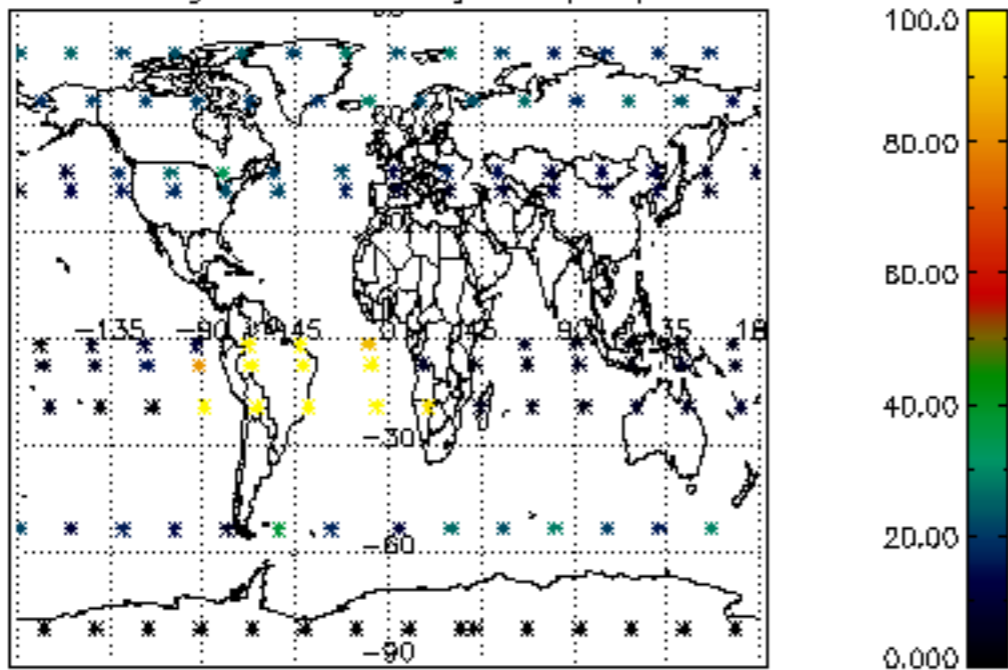




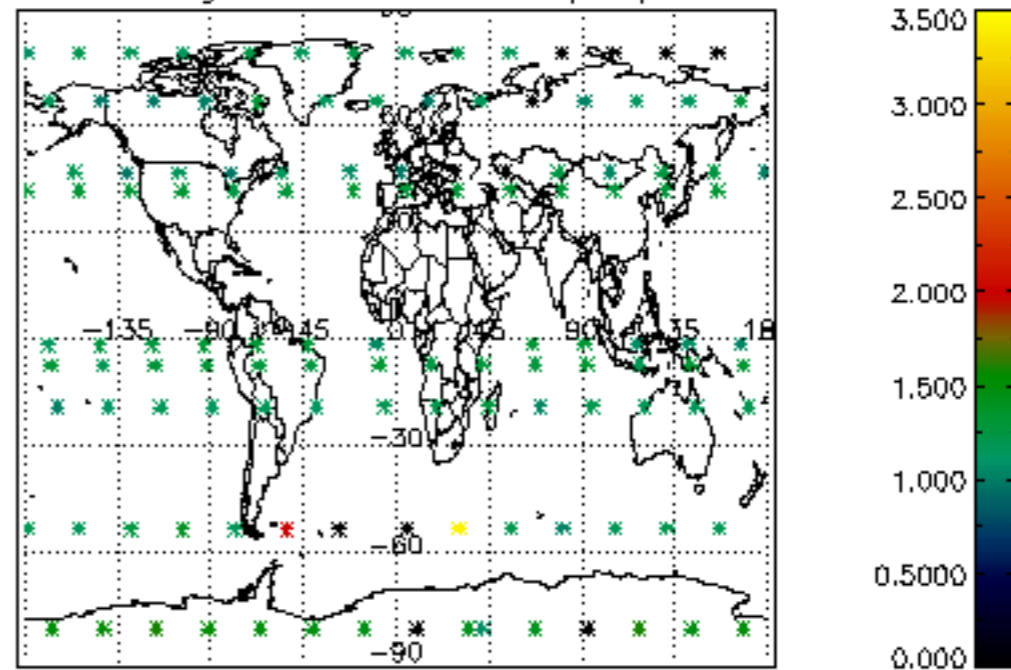




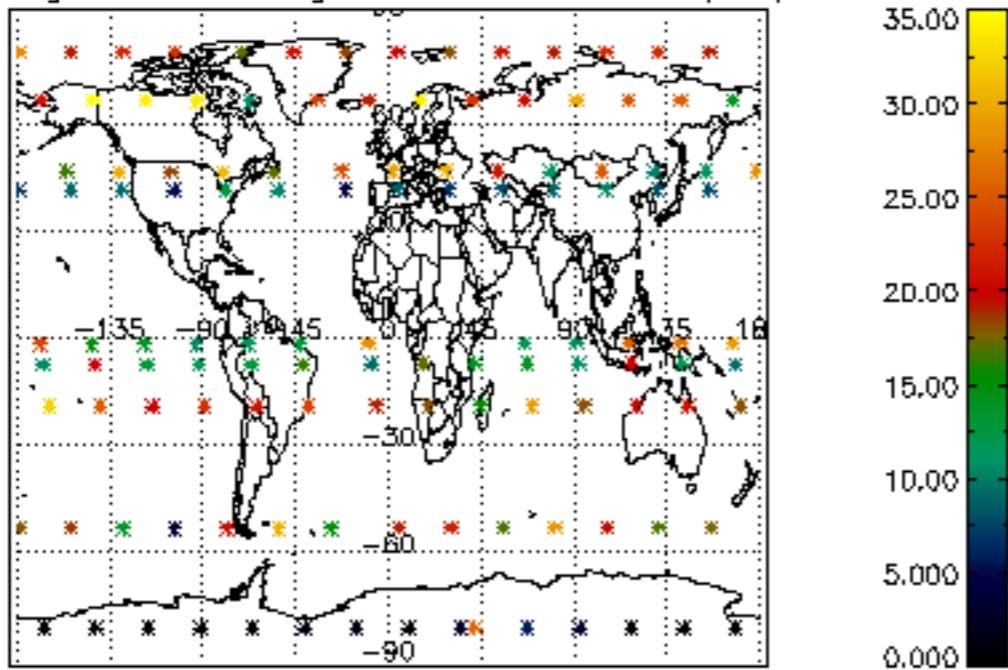
Percentage of cosmic ray hits per profile



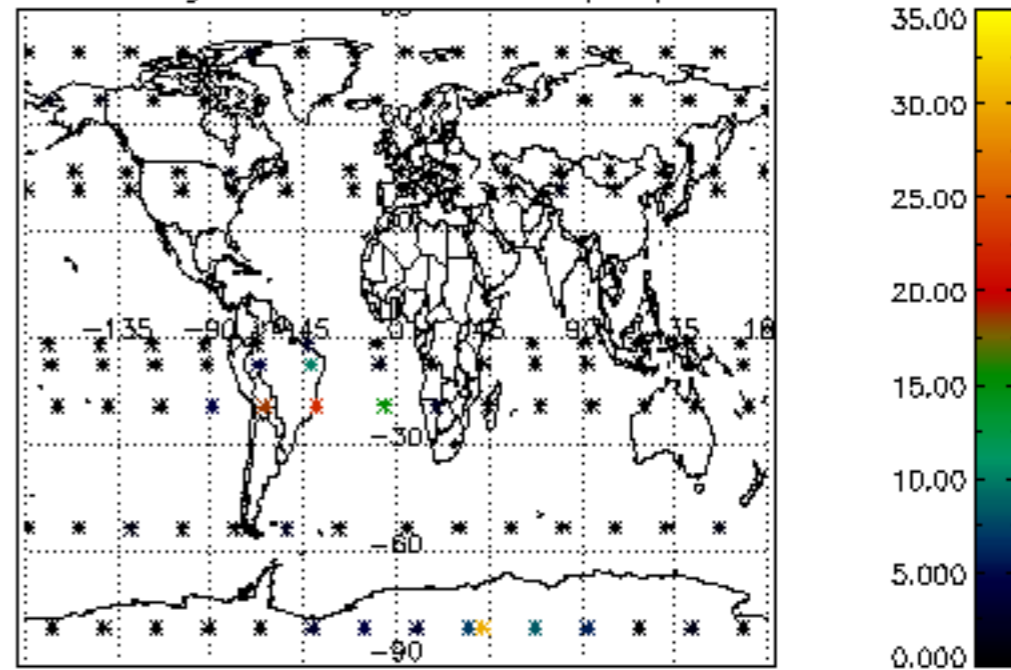
Percentage of datation errors per profile



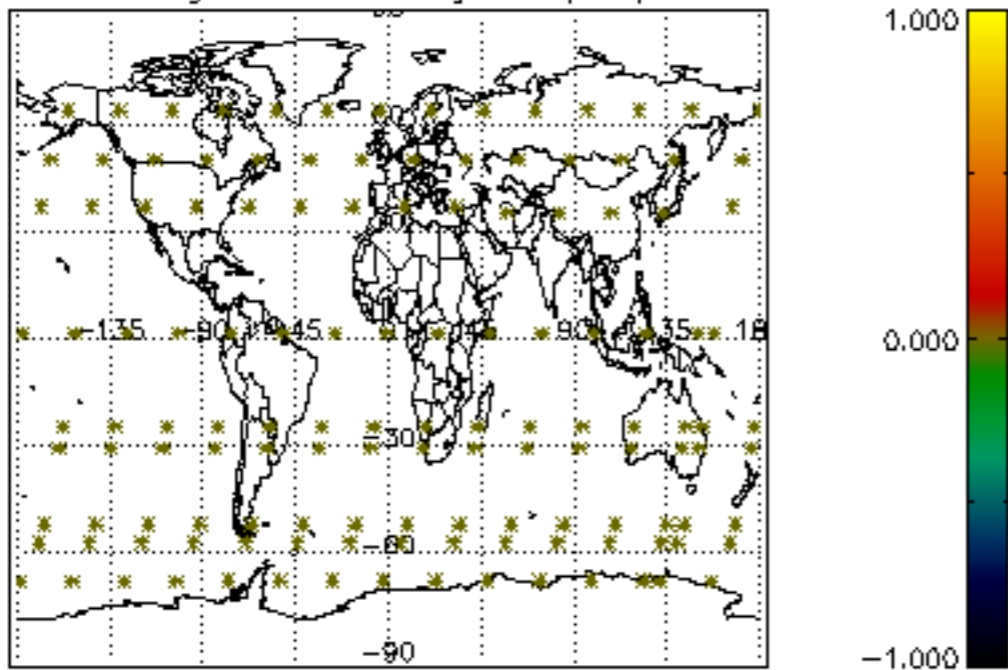
Percentage of star falling outside central band per profile



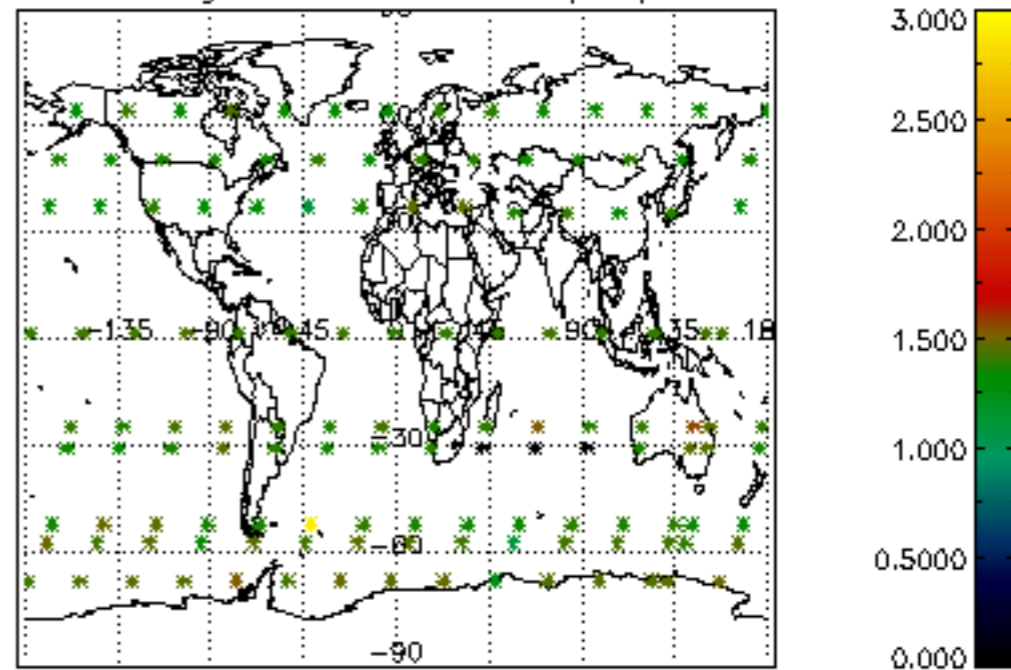
Percentage of saturation errors per profile



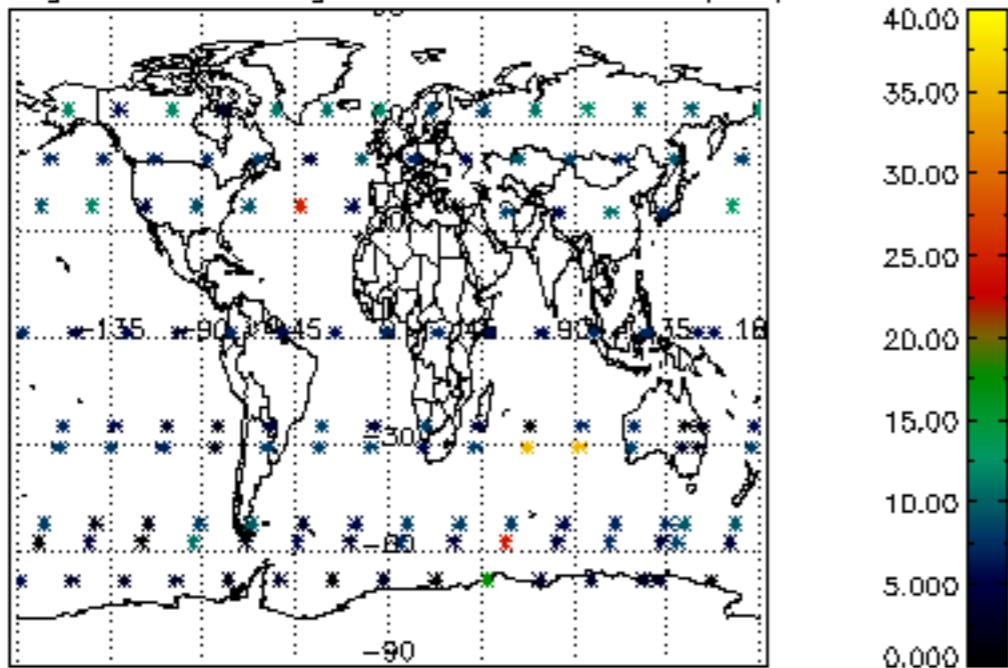
Percentage of cosmic ray hits per profile



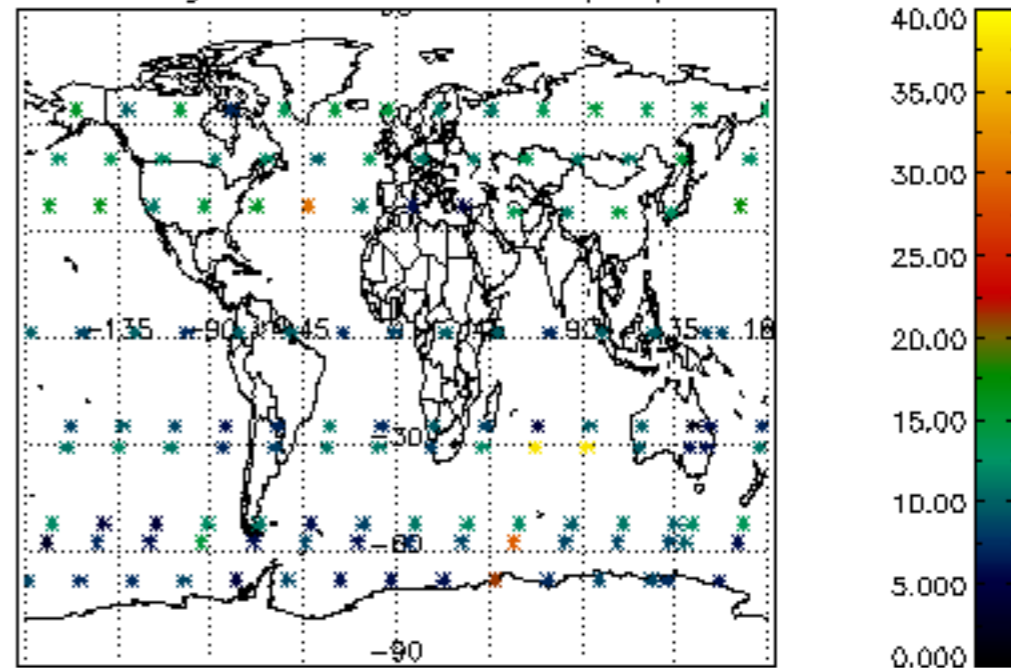
Percentage of datation errors per profile

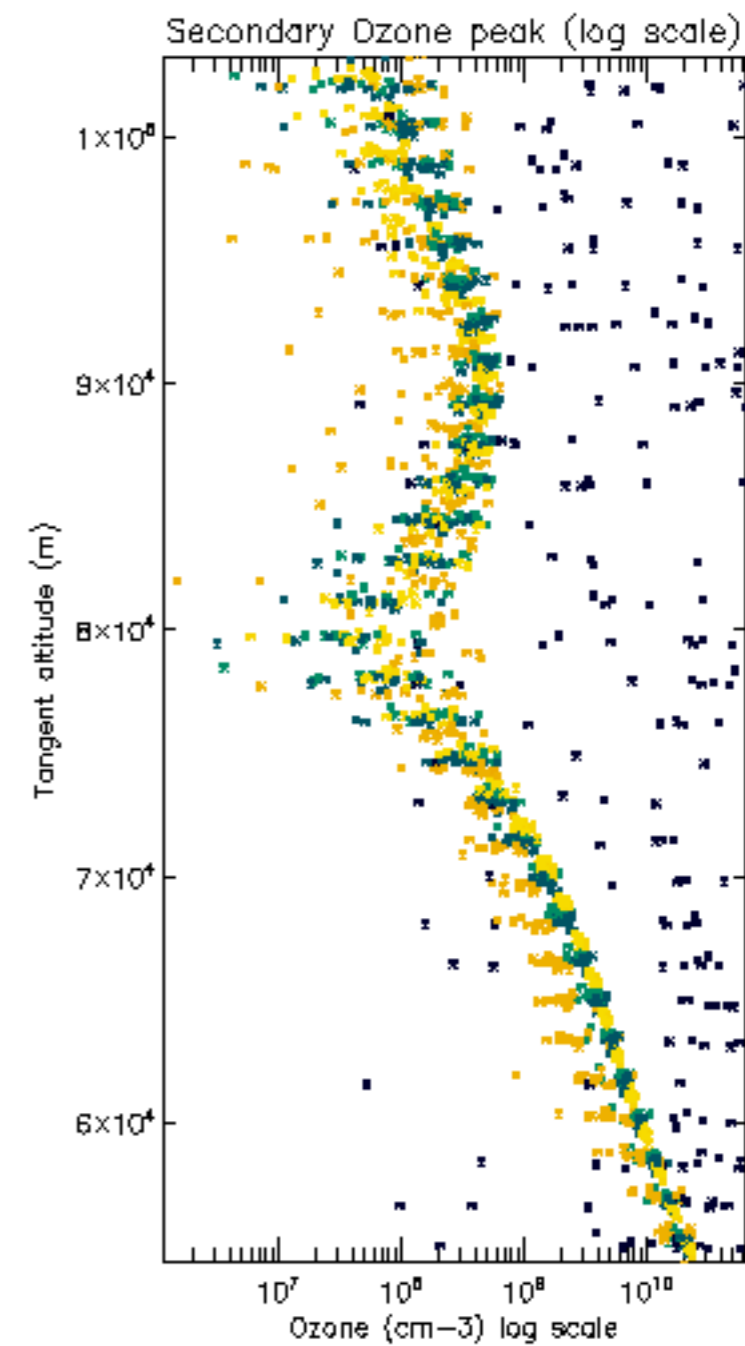
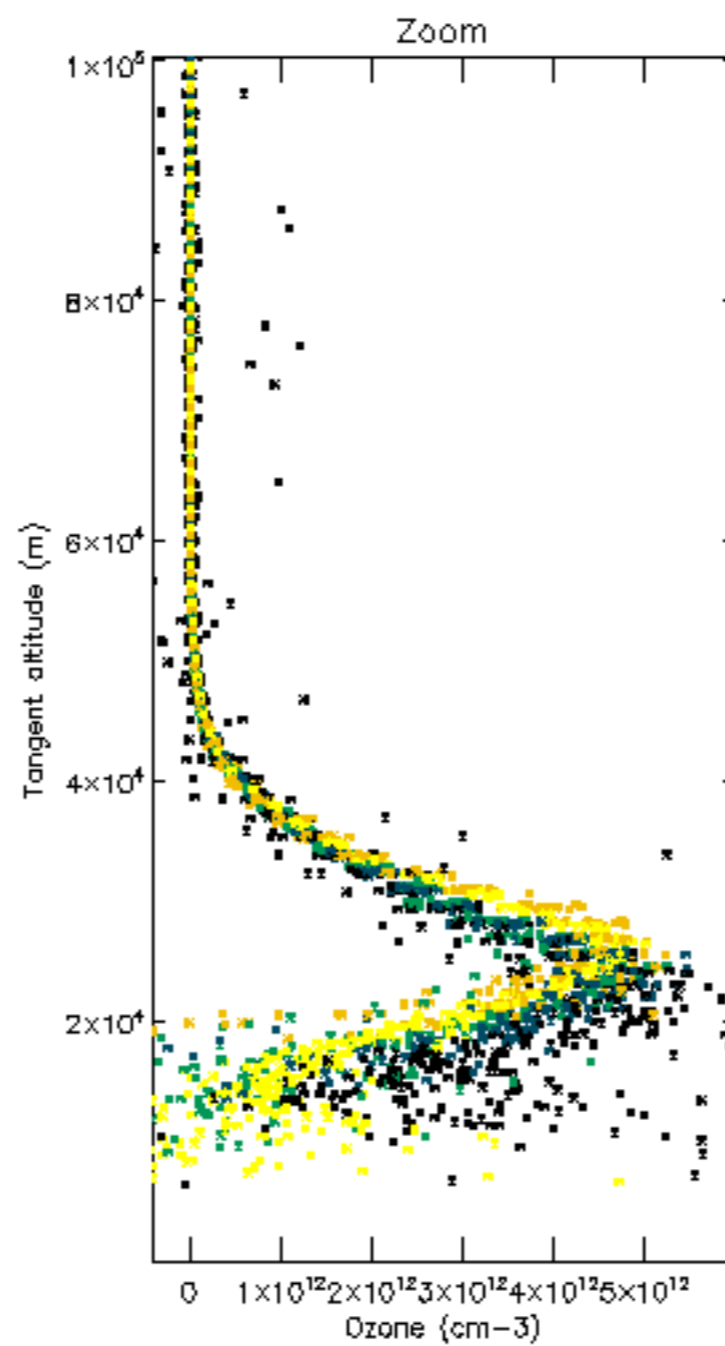
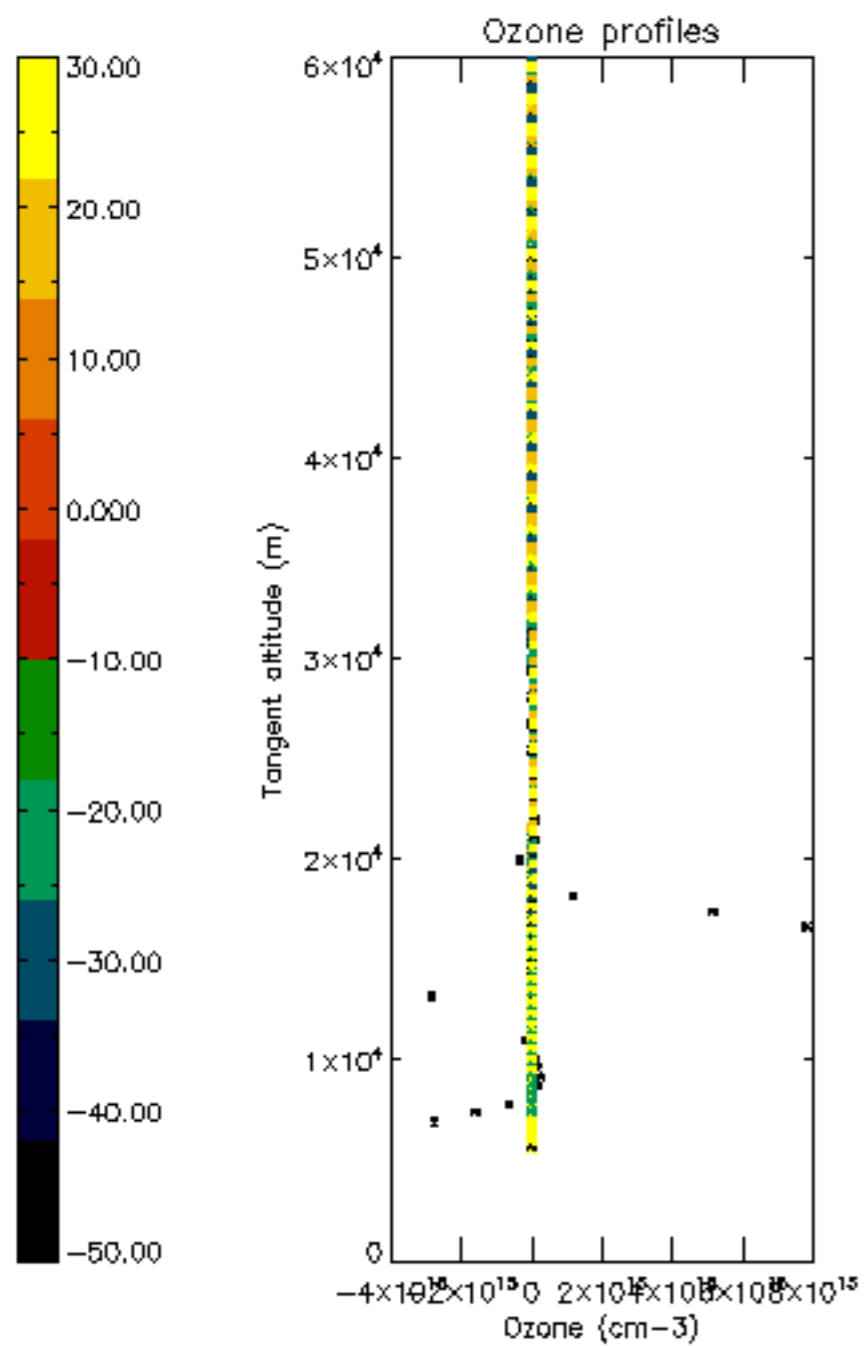


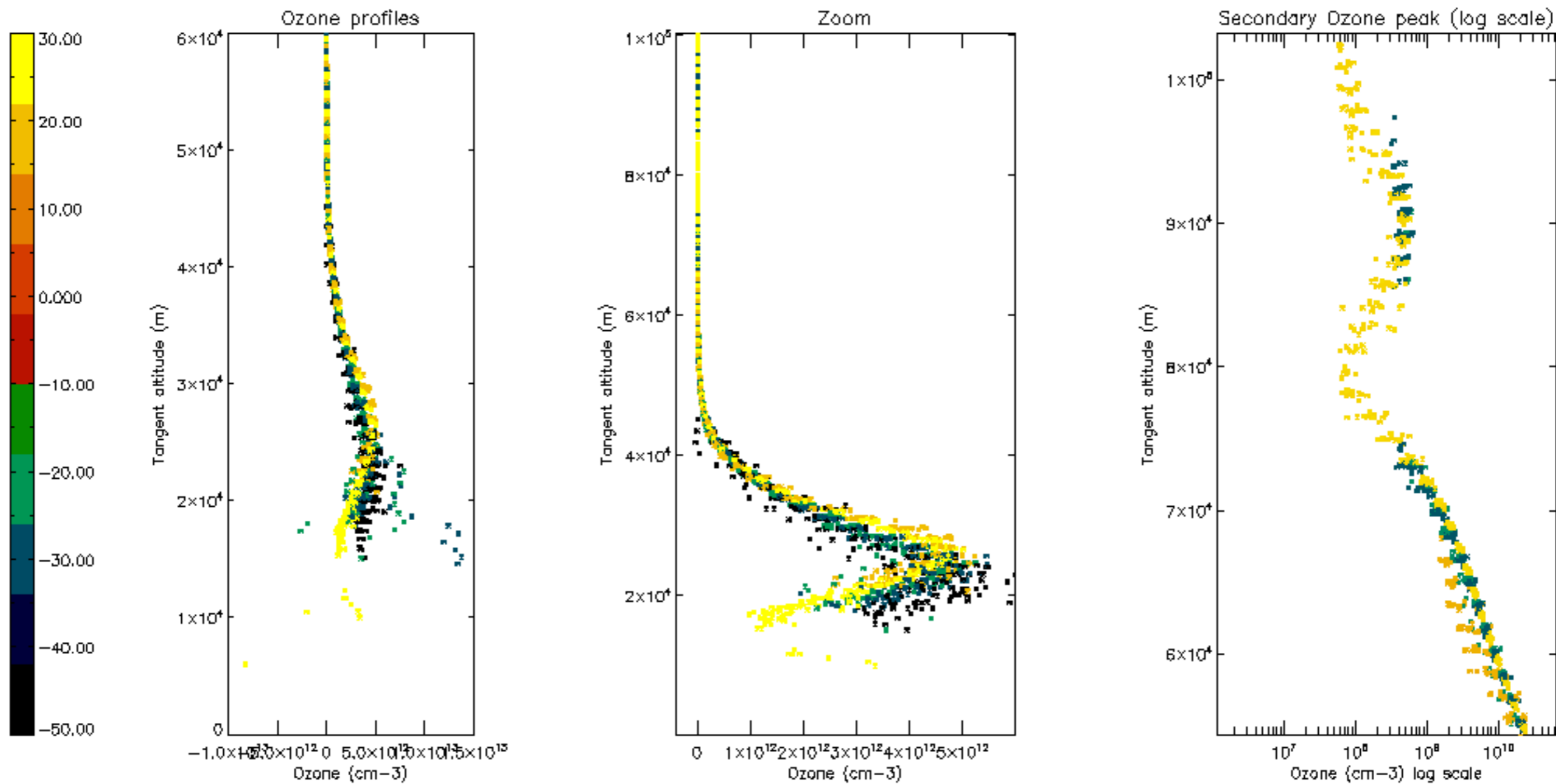
Percentage of star falling outside central band per profile

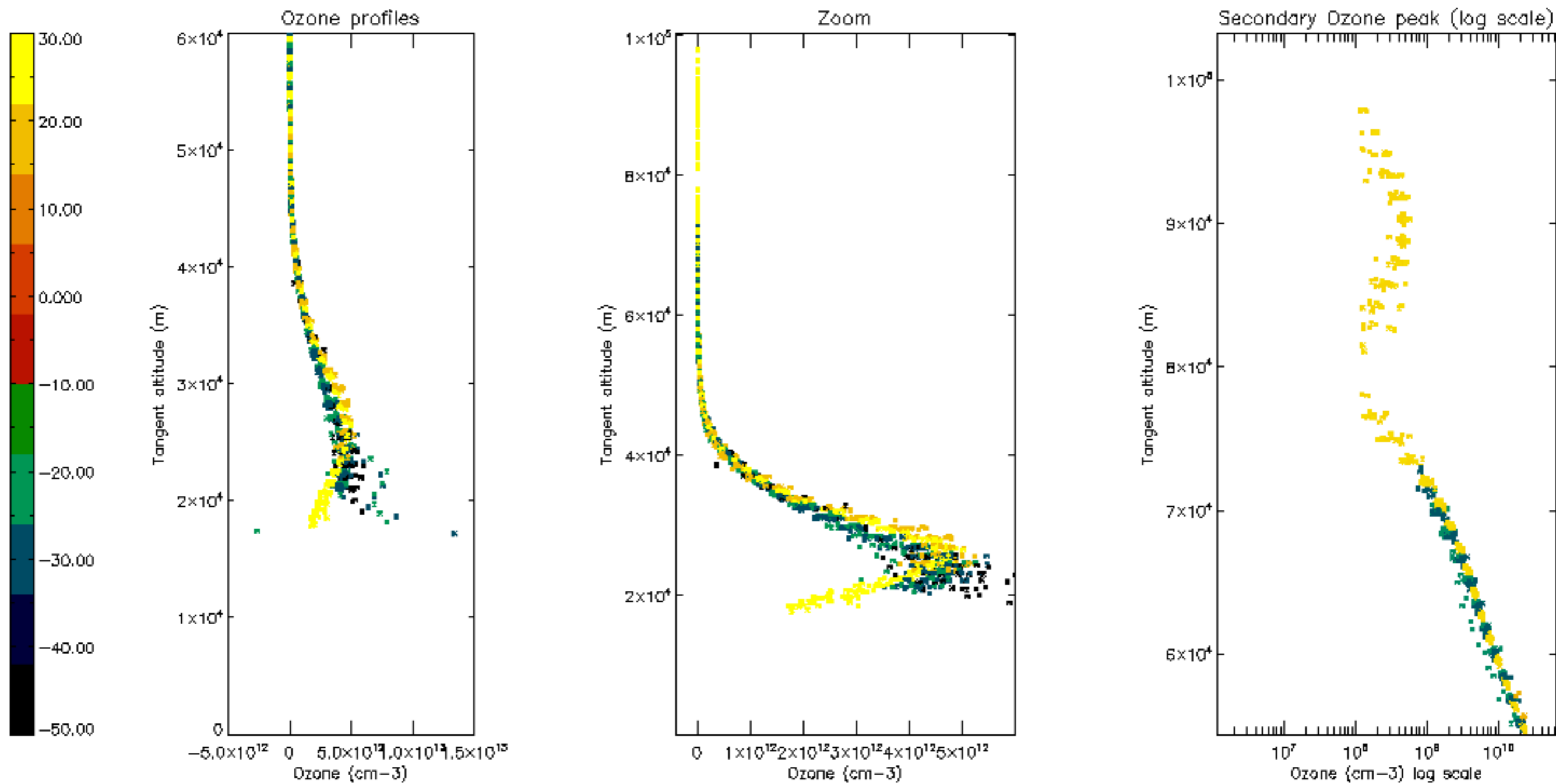


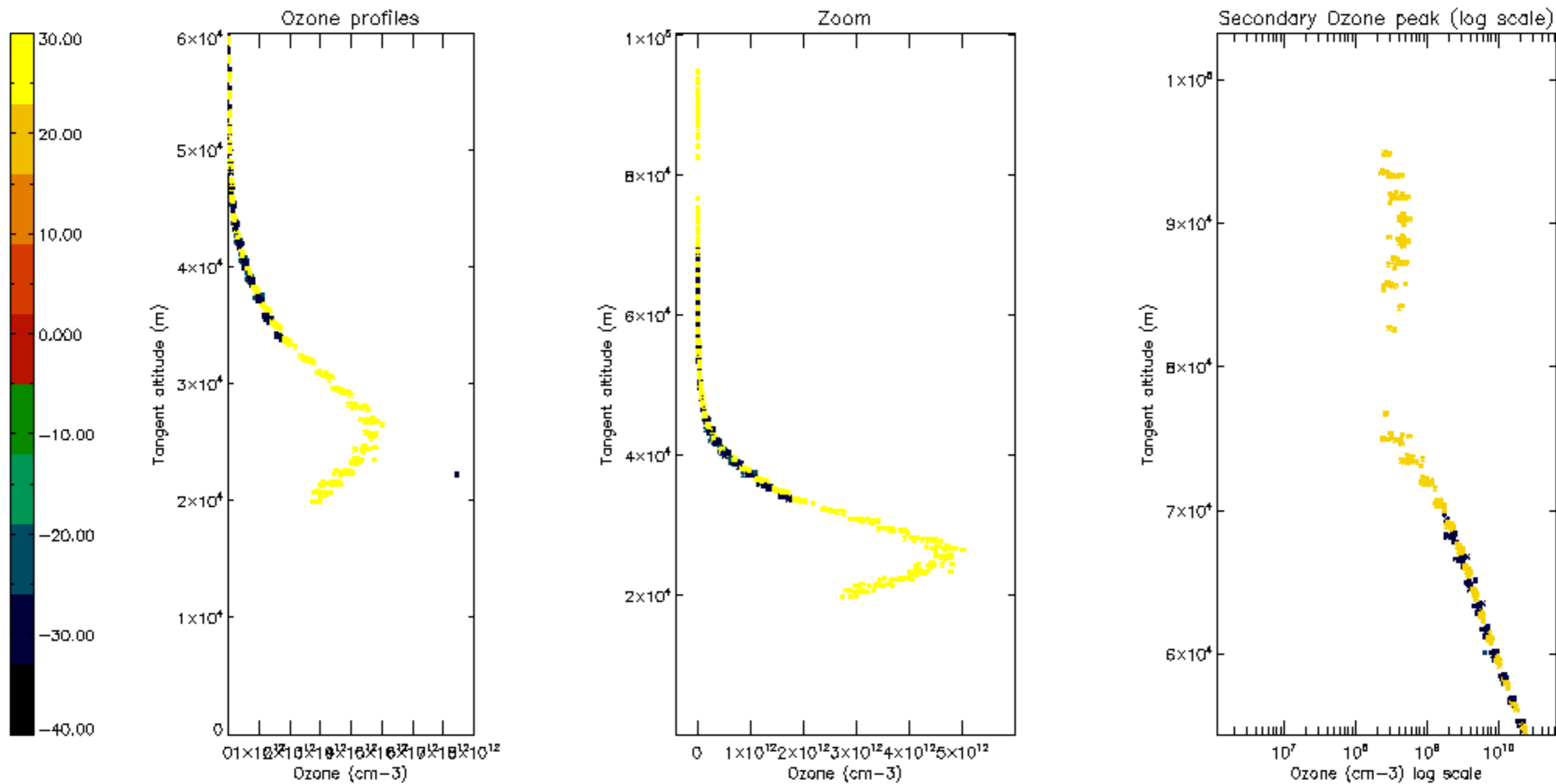
Percentage of saturation errors per profile



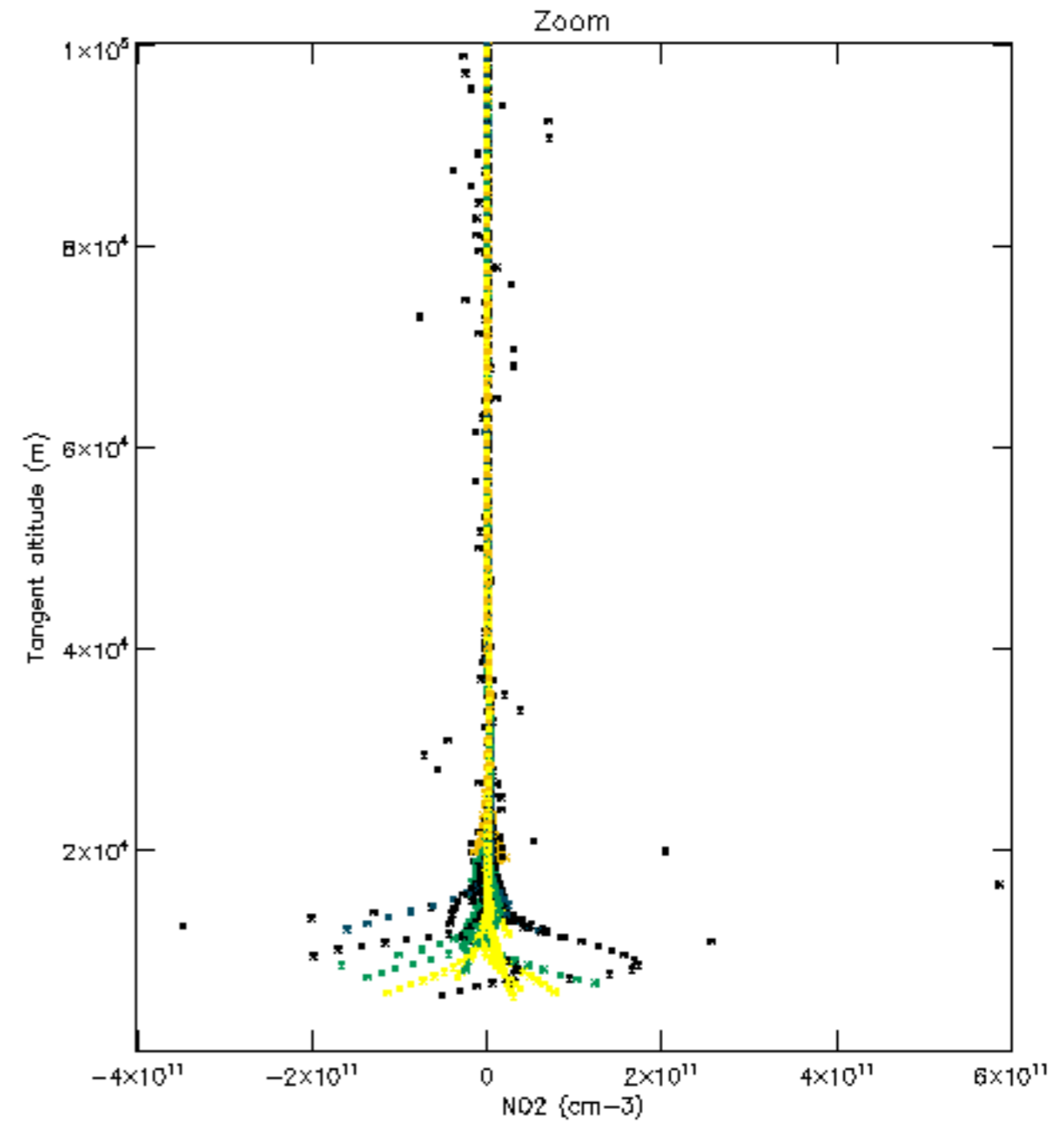
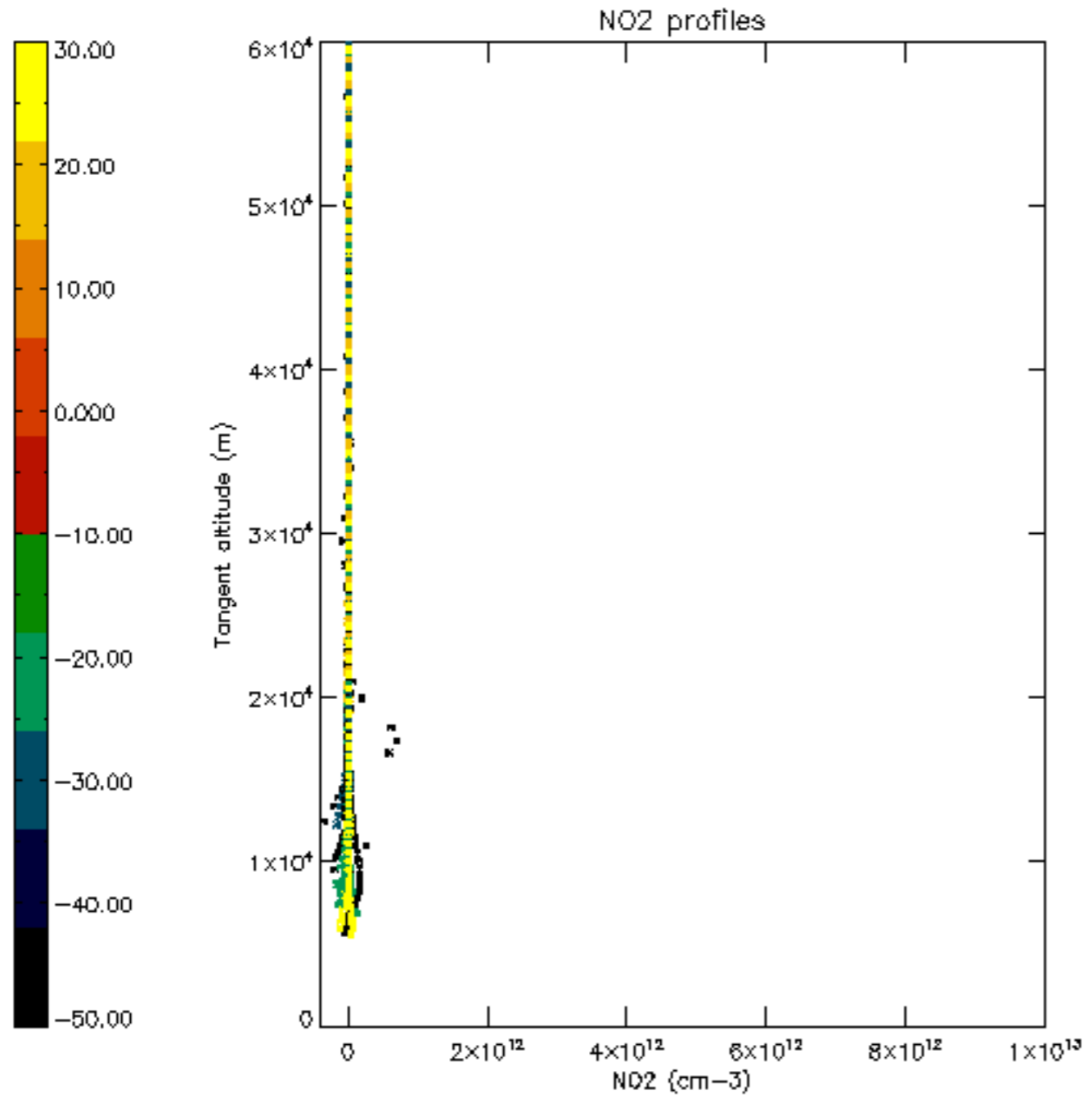


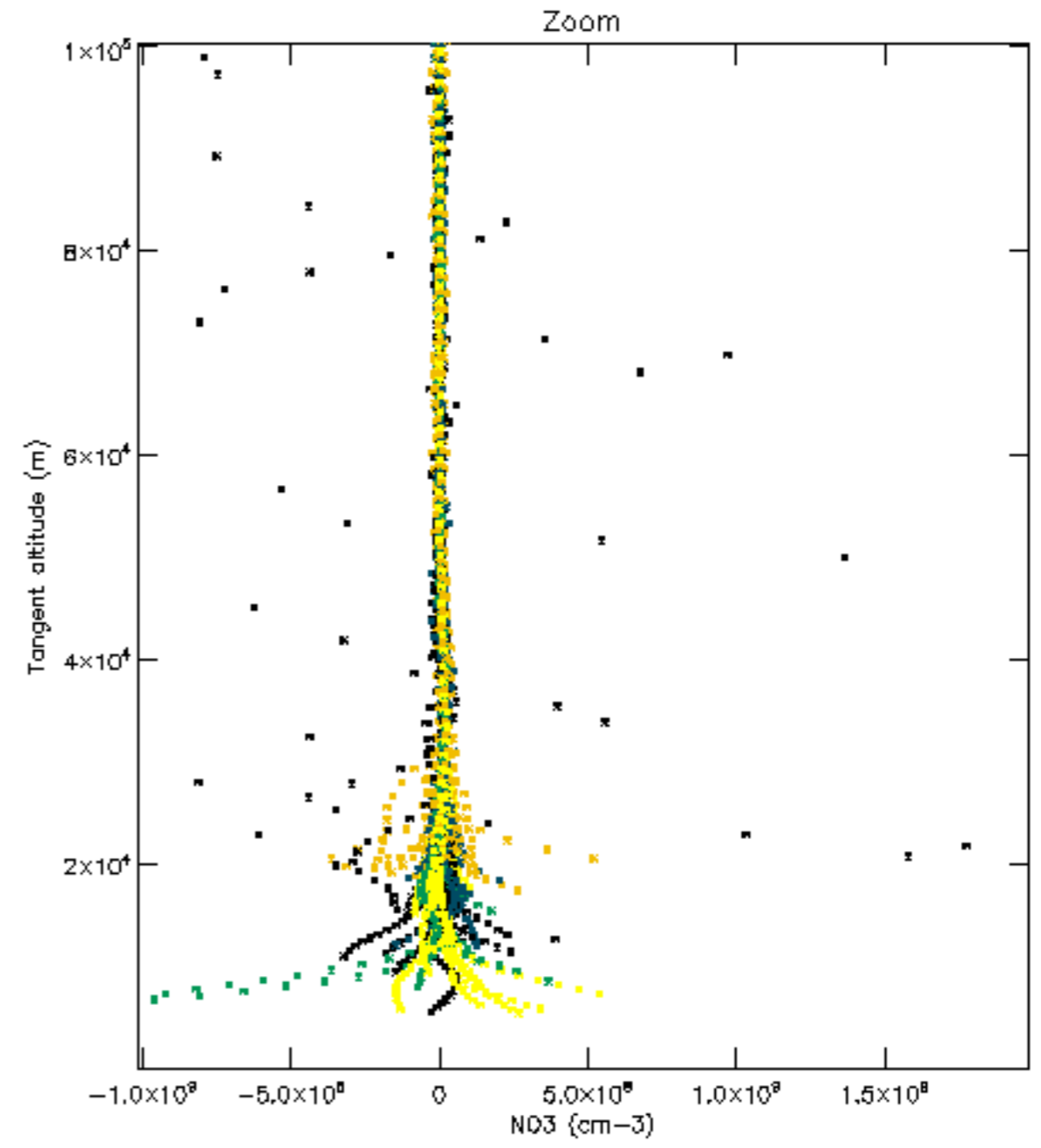
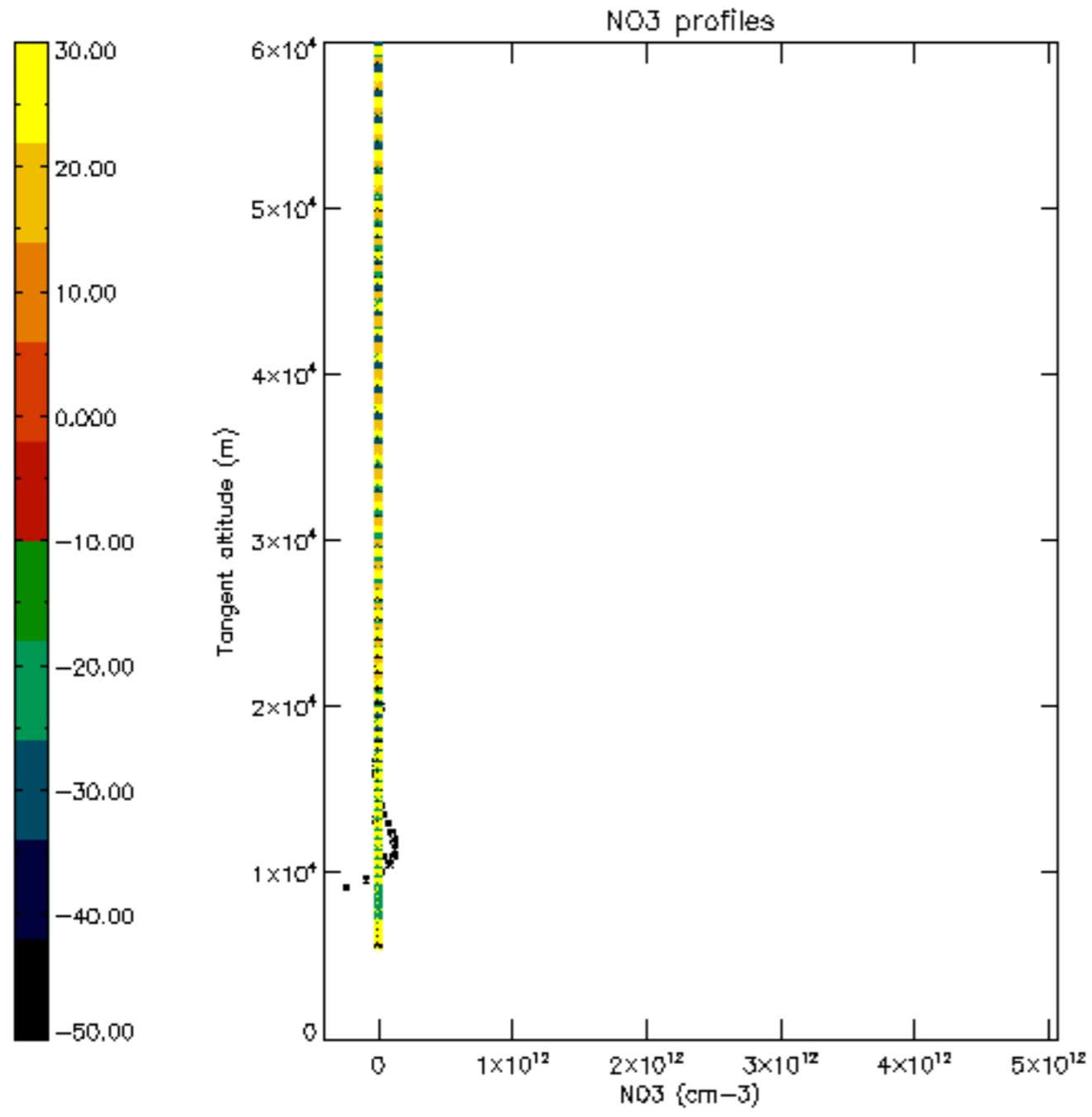


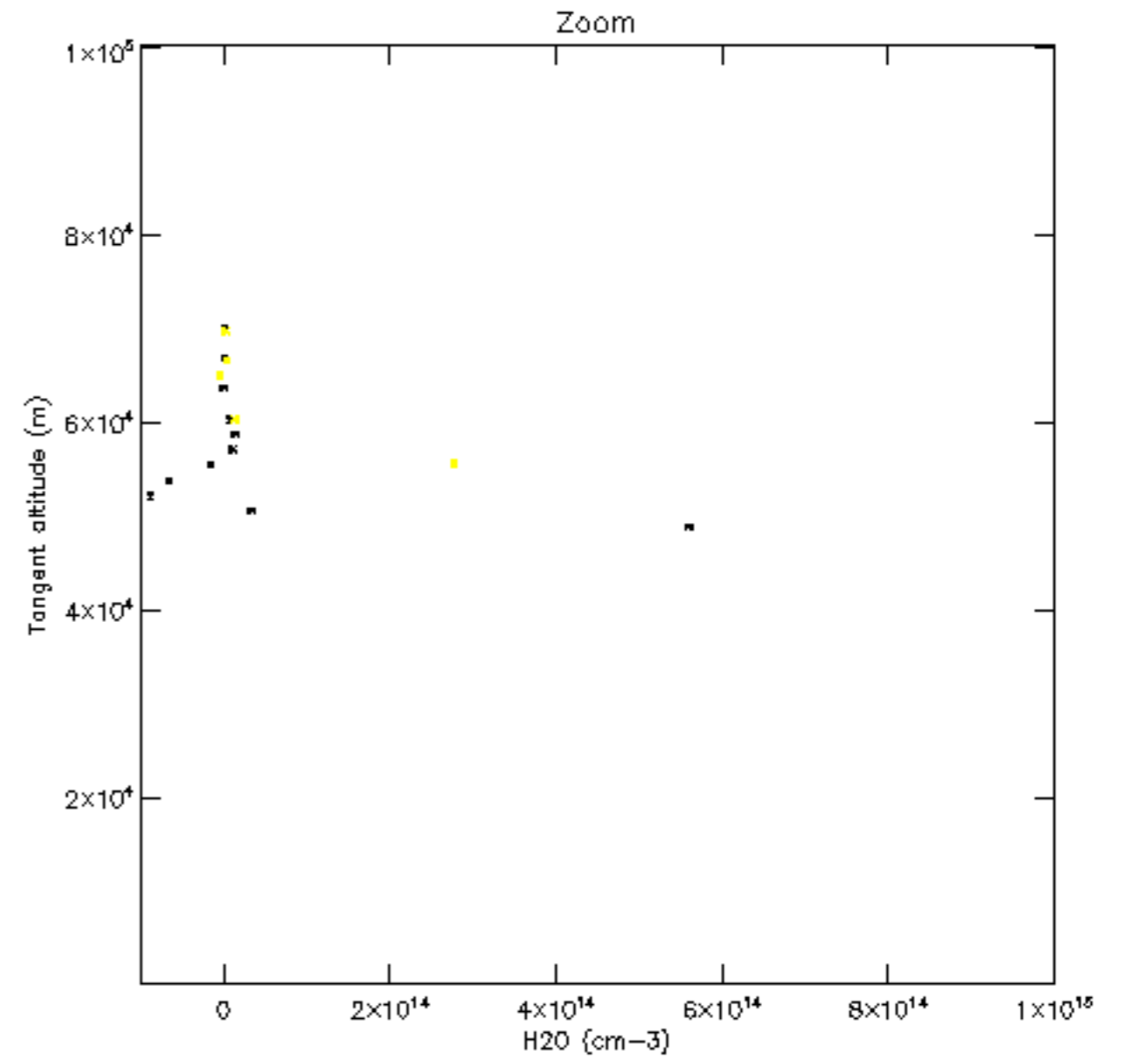
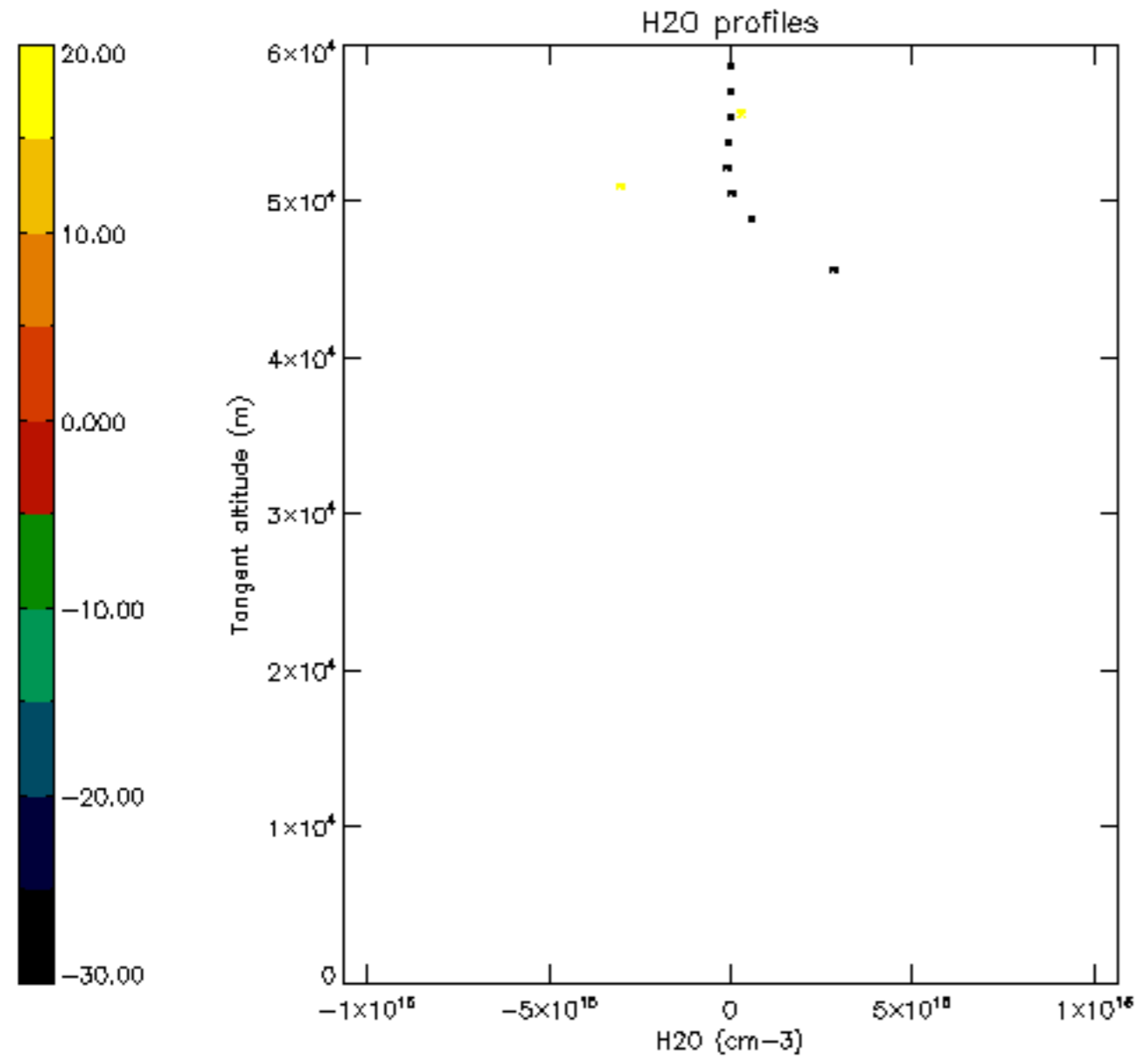


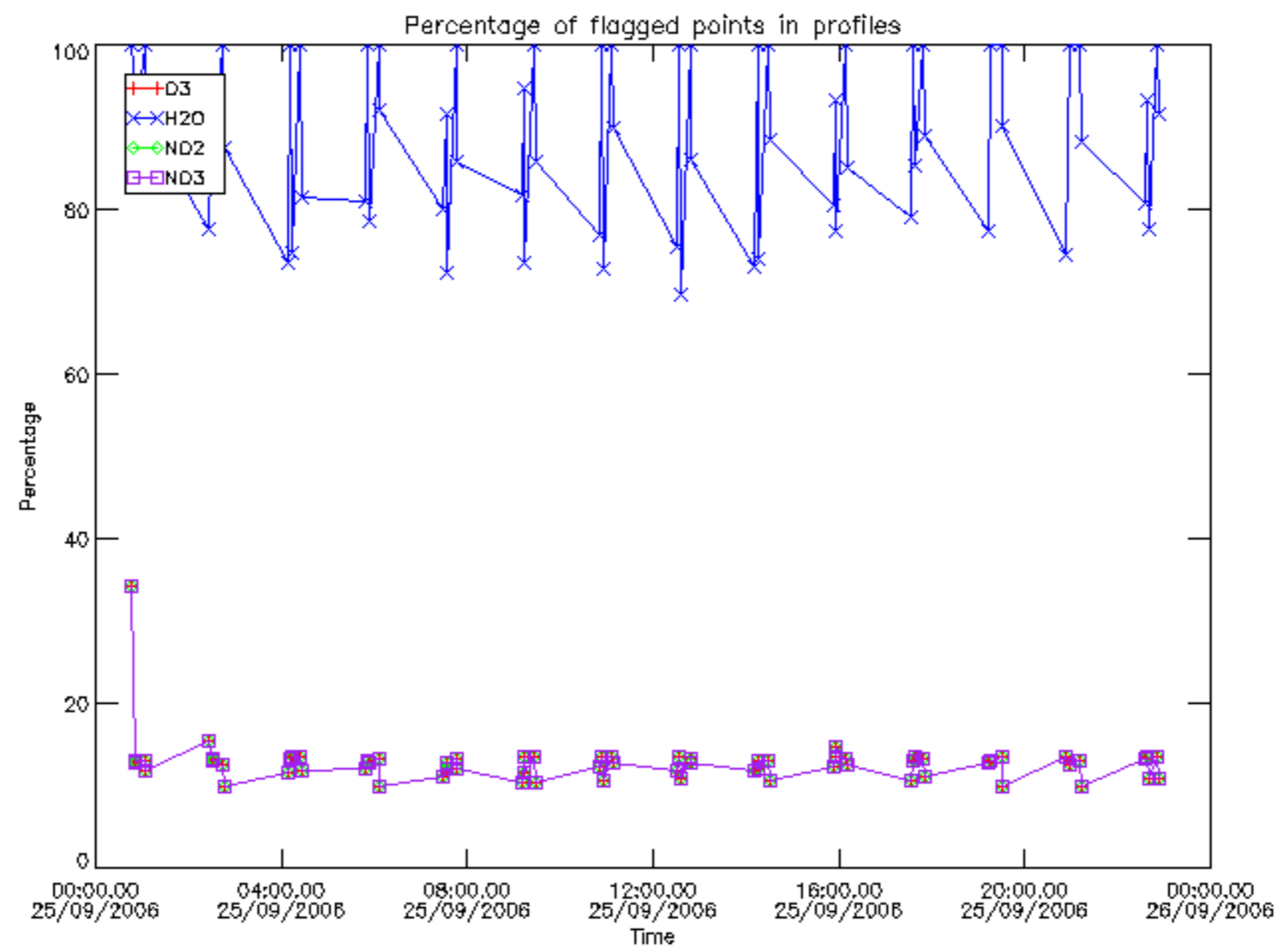




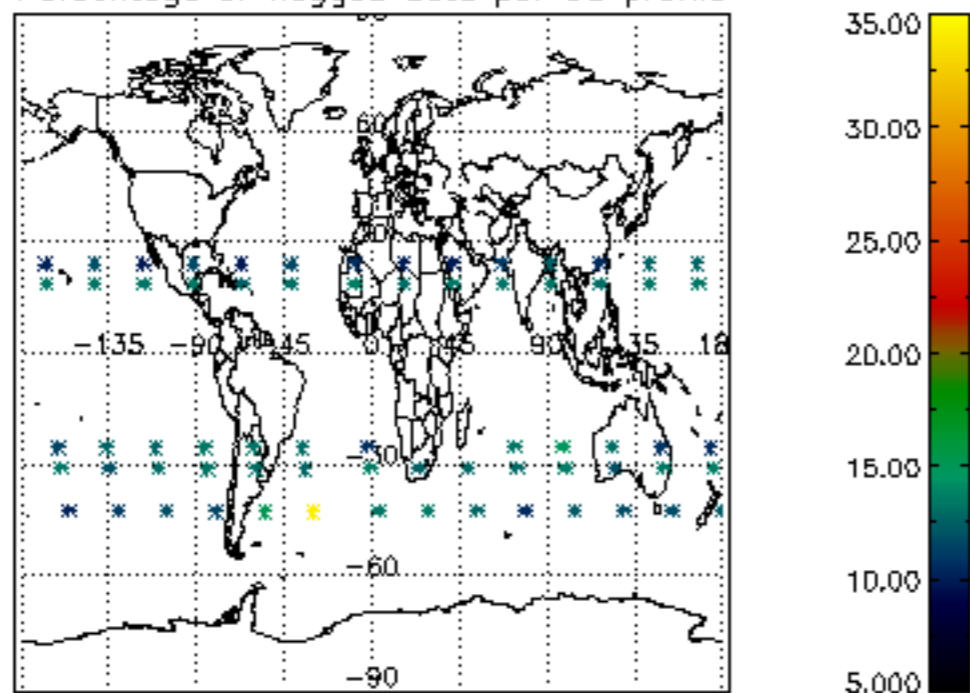




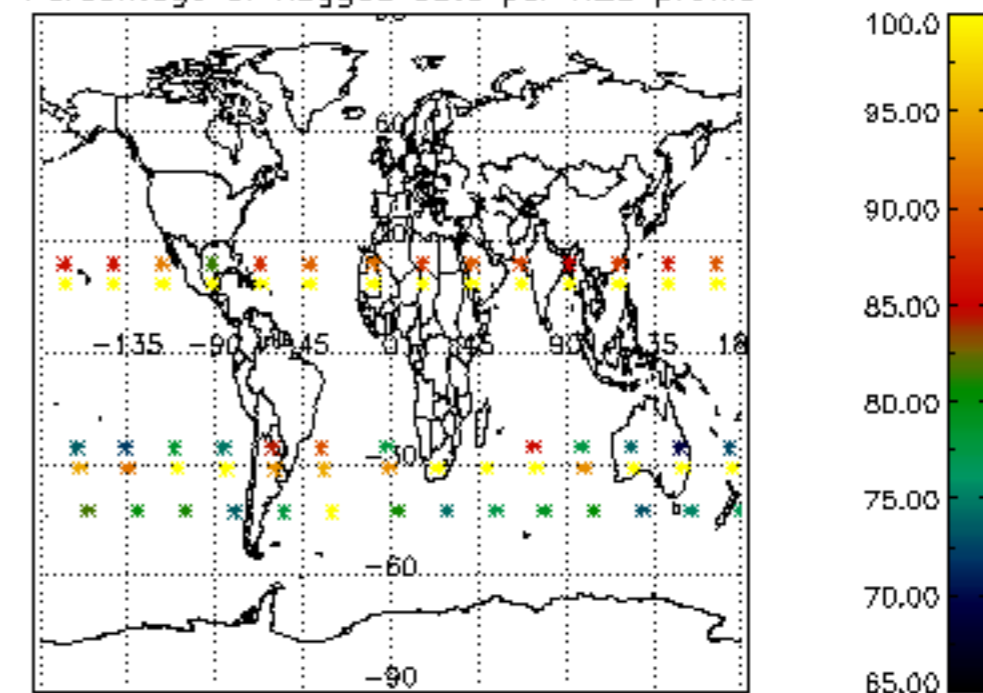




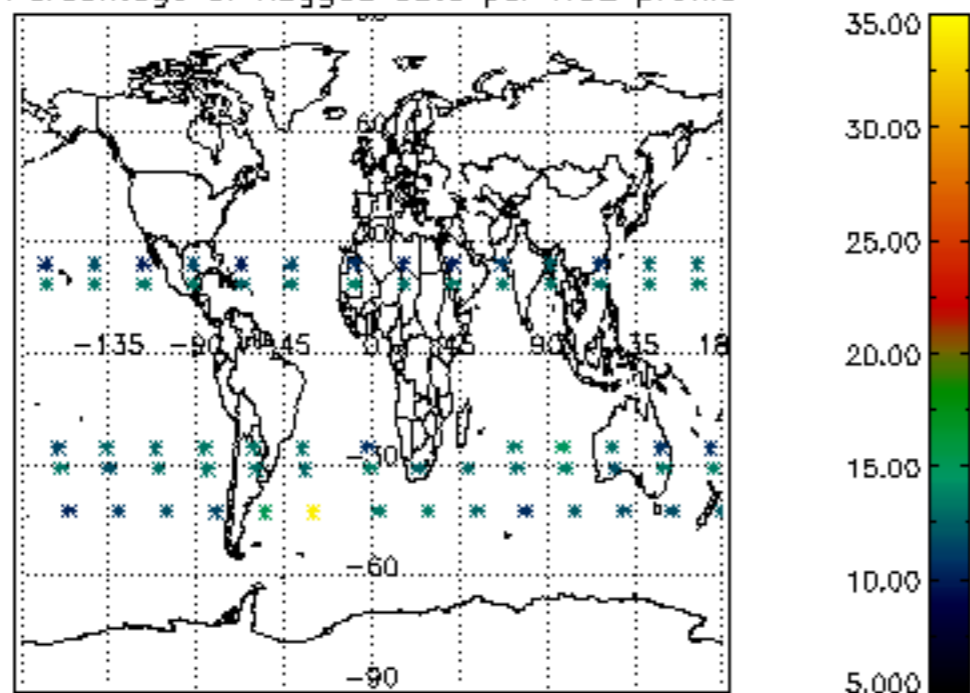
Percentage of flagged data per D3 profile



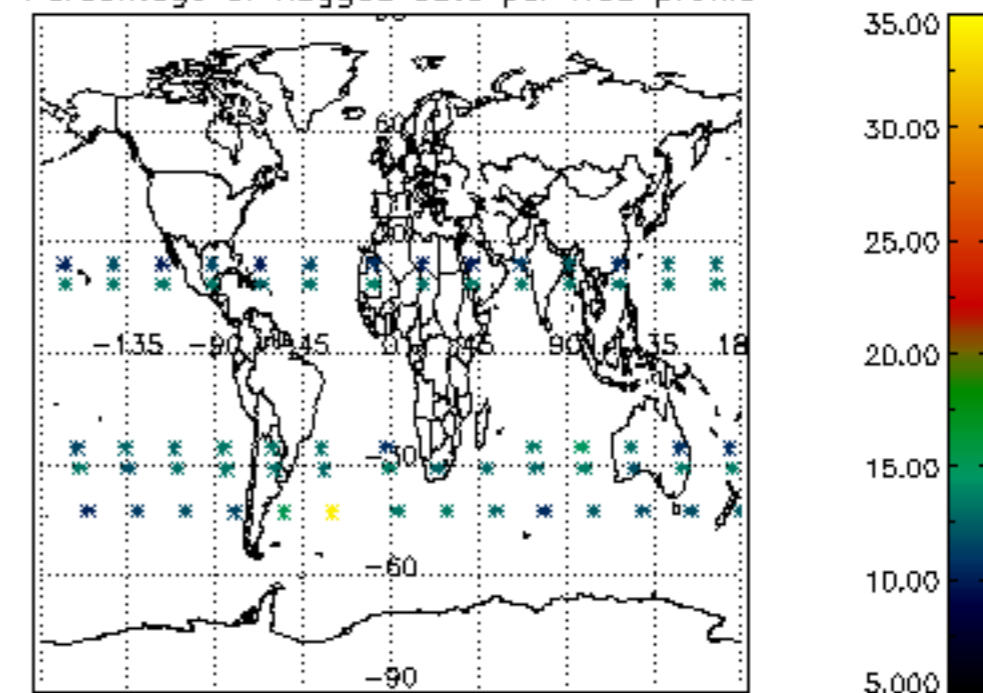
Percentage of flagged data per H2O profile

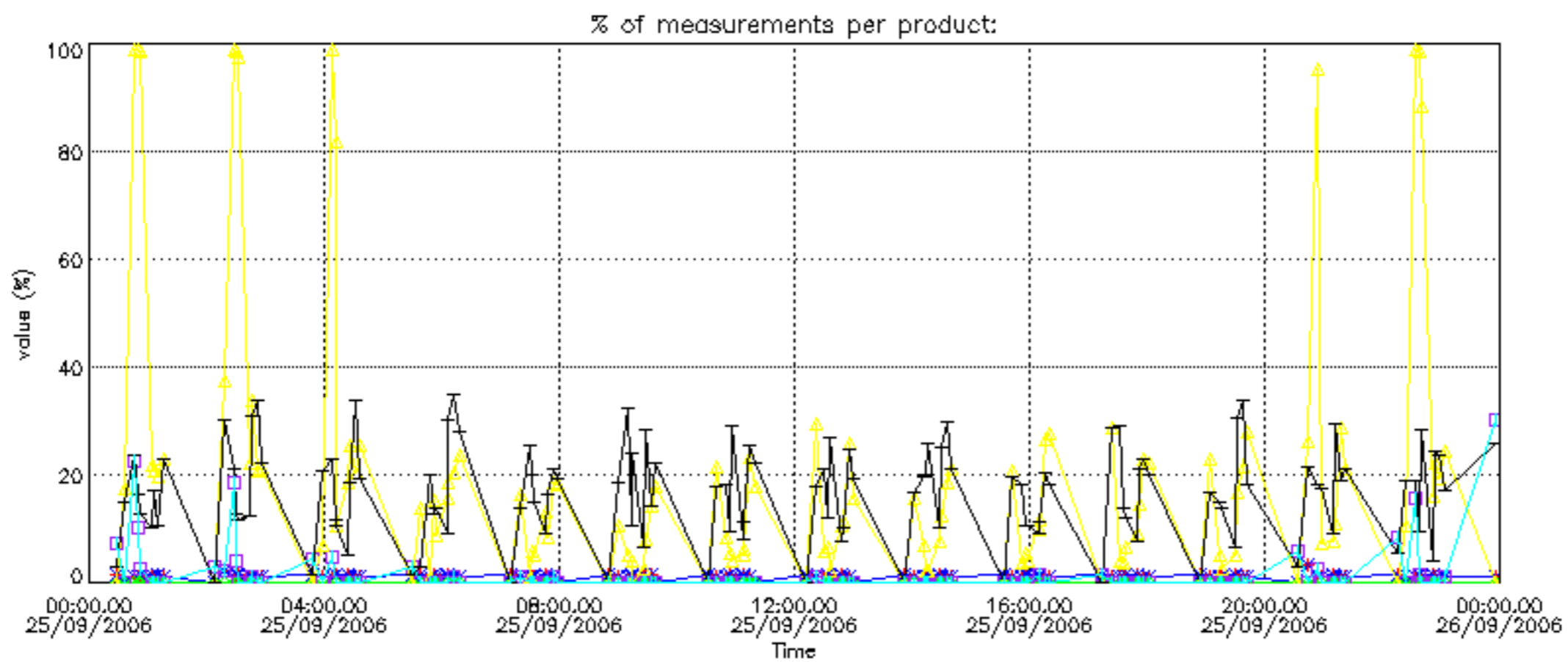


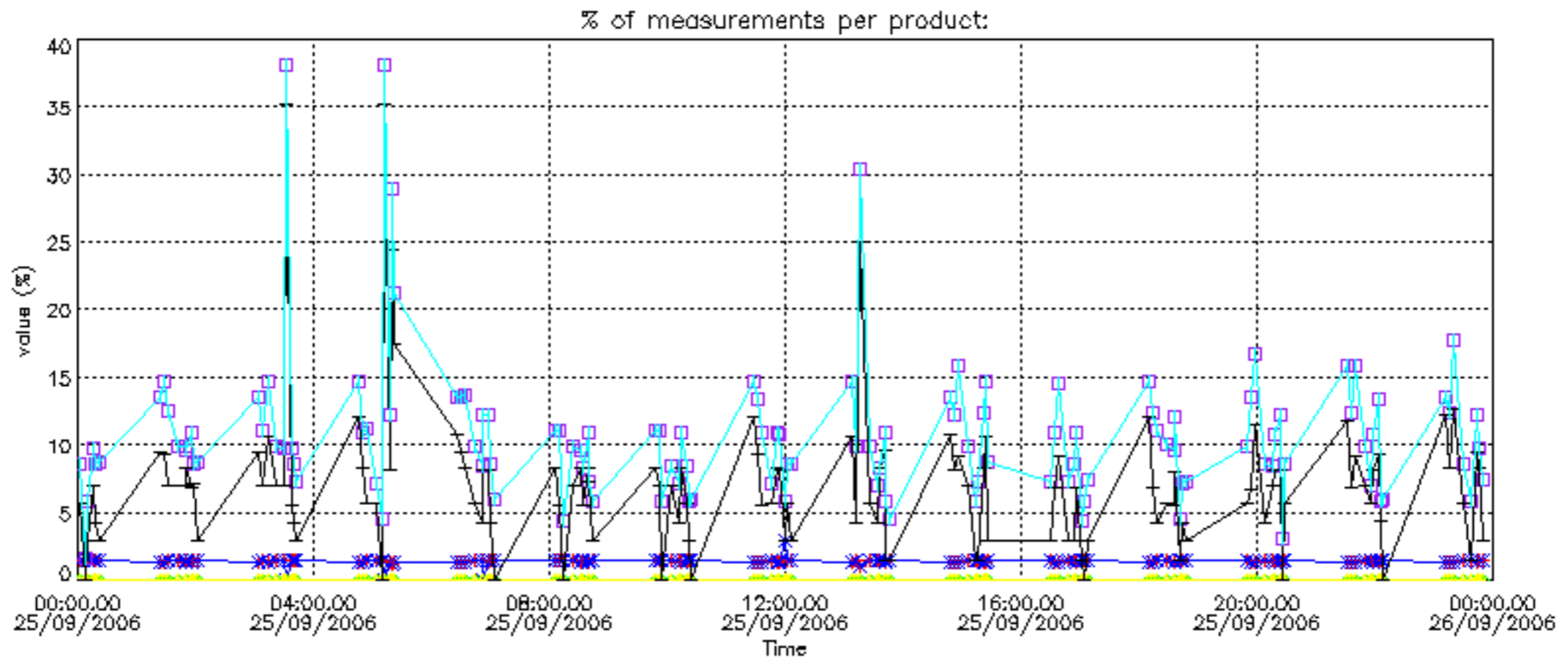
Percentage of flagged data per NO2 profile



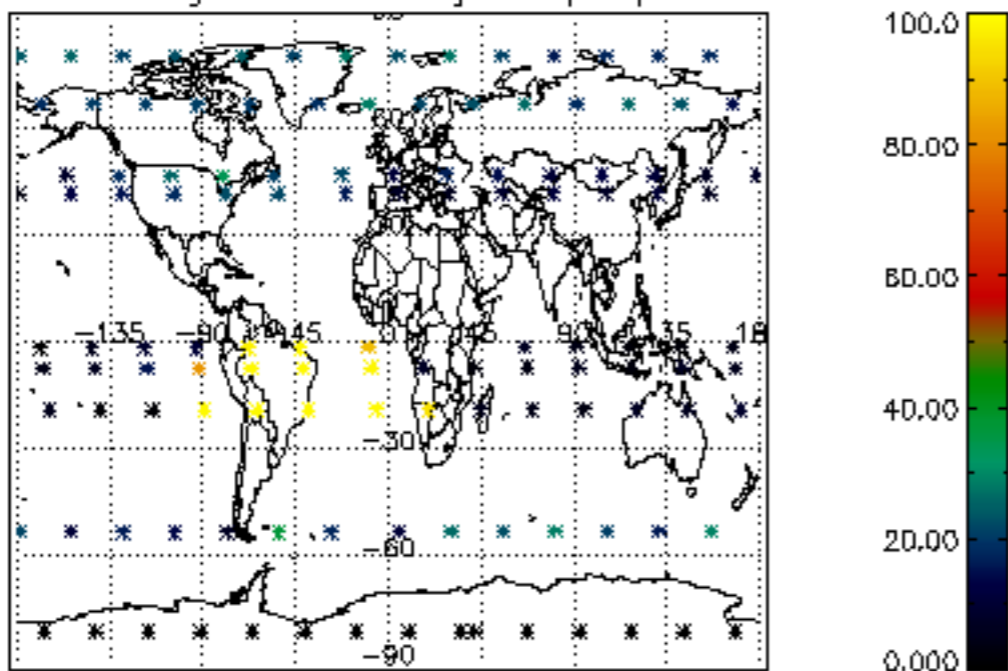
Percentage of flagged data per NO3 profile



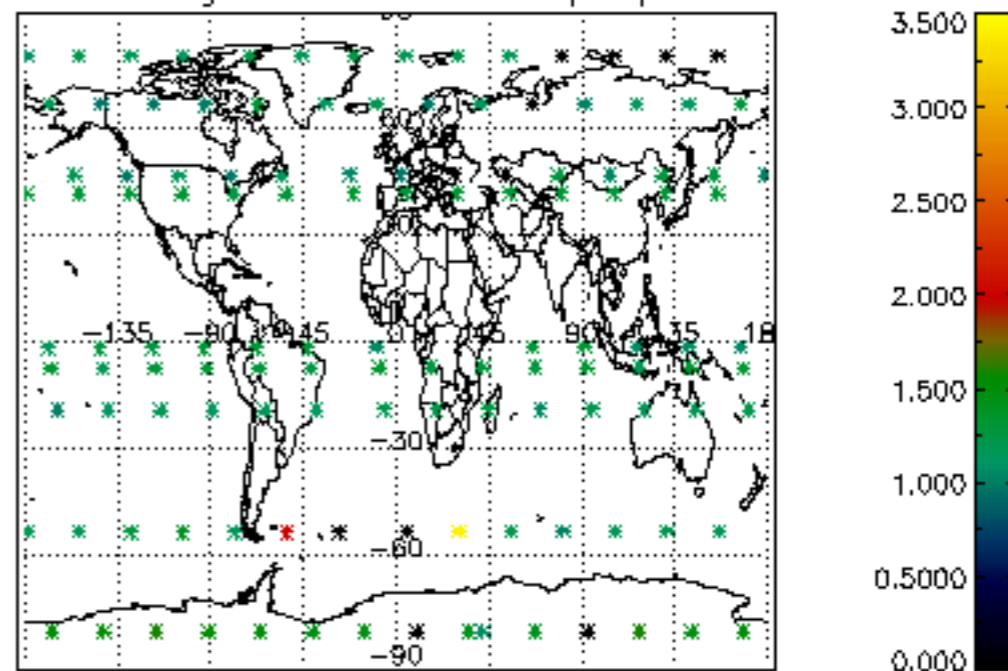




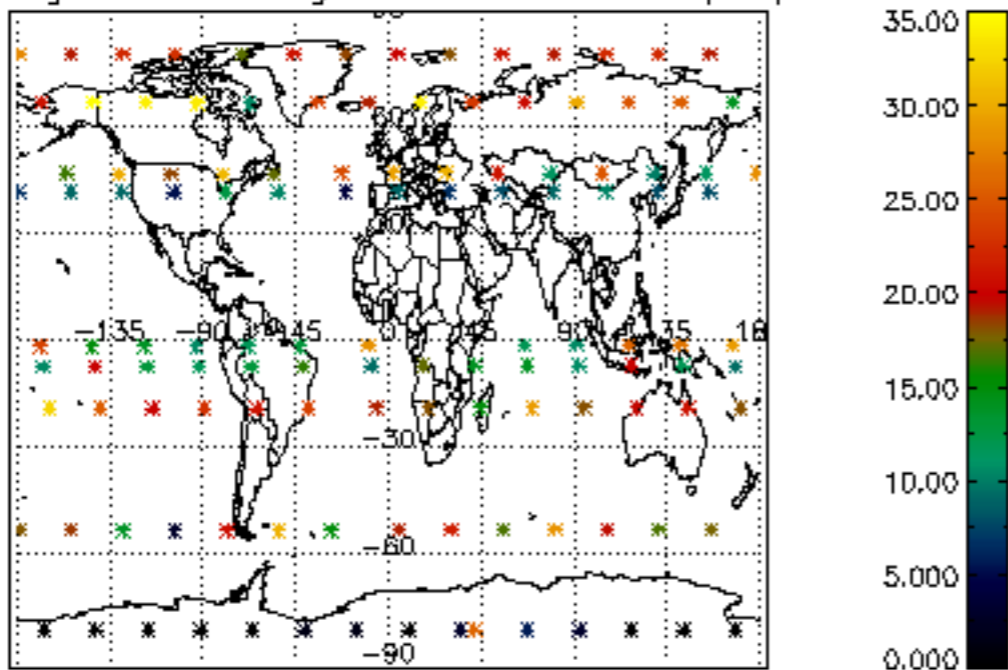
Percentage of cosmic ray hits per profile



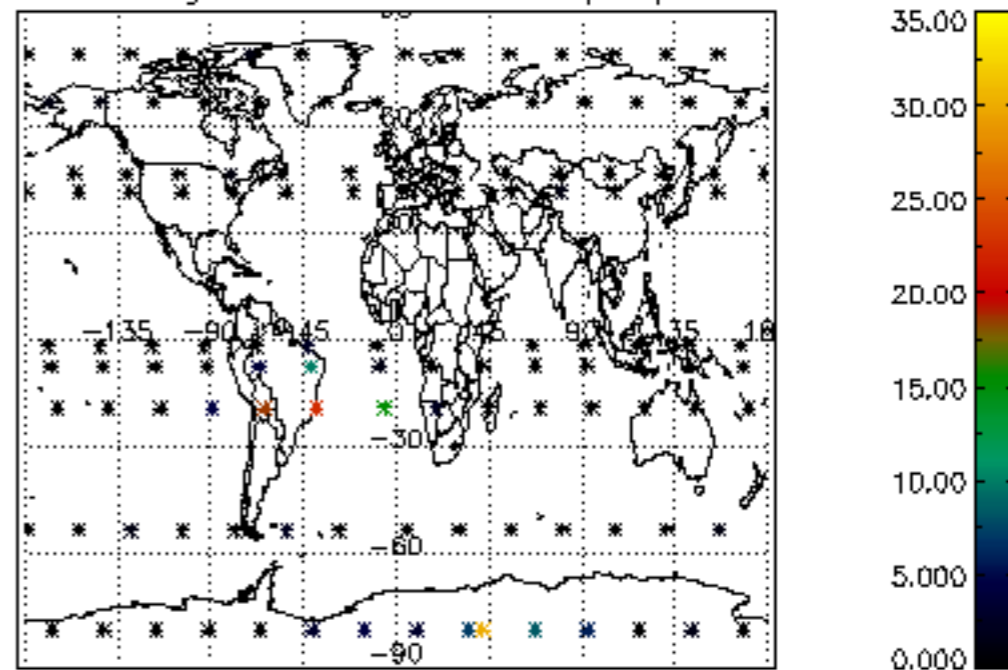
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

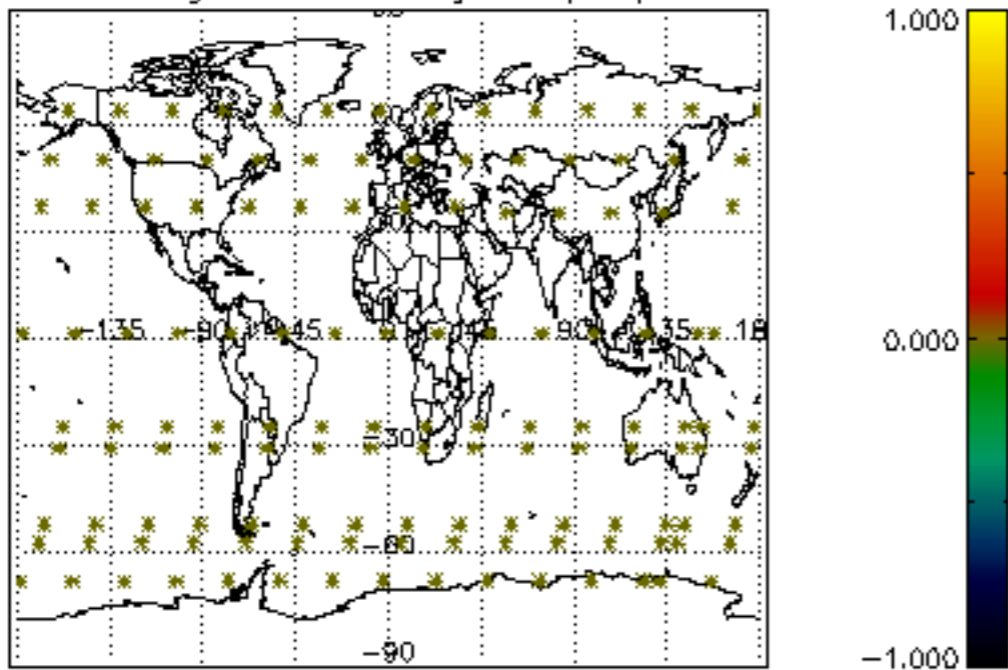


Percentage of saturation errors per profile

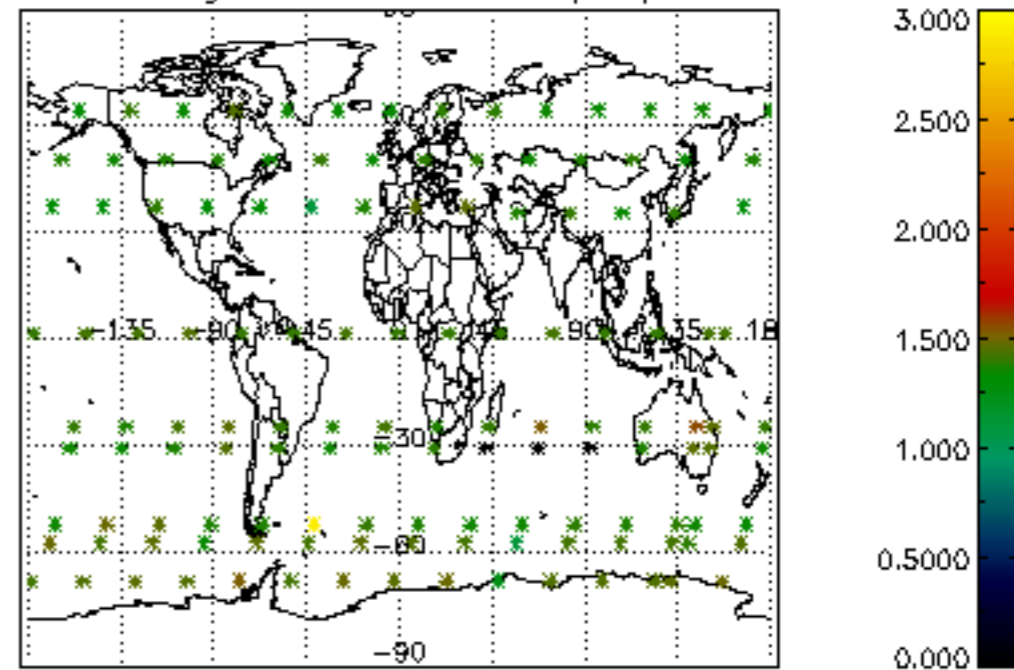




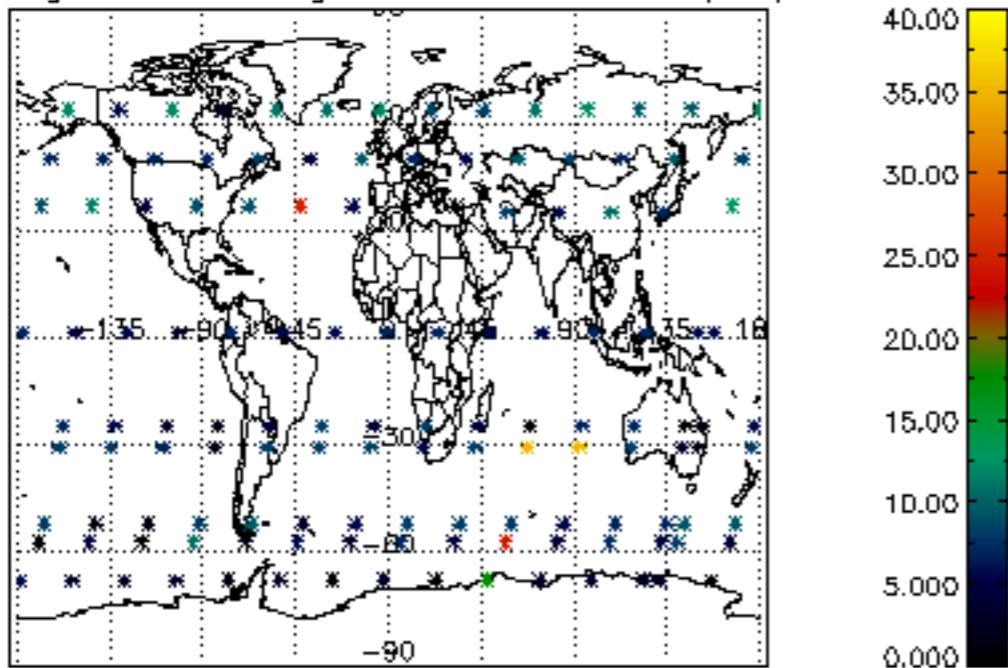
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

