

# GOMOS Level 2 Daily Report

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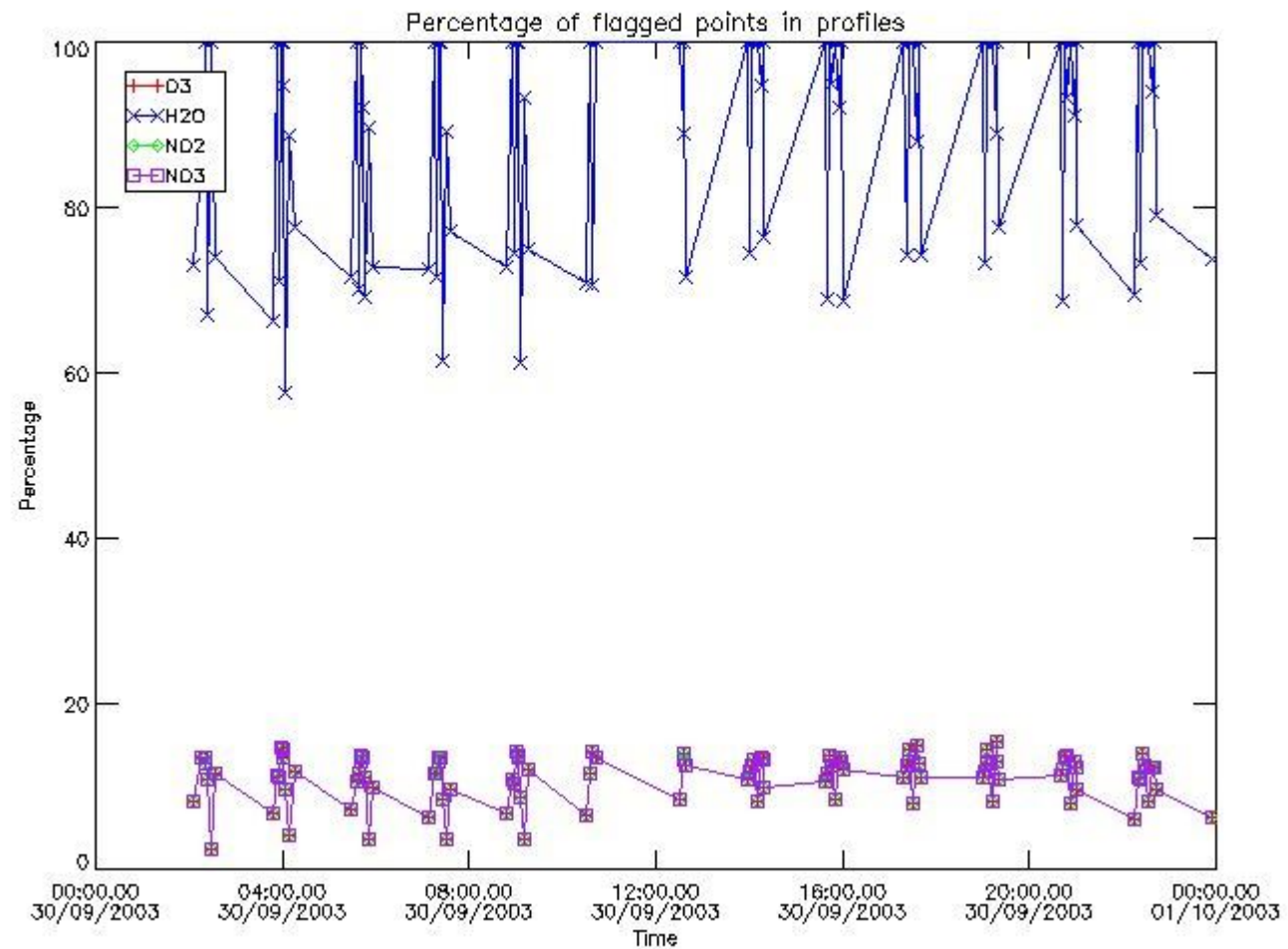


338	GOM_NL__2PRFIN20030930_232531_000000412020_00216_08286_0470.N1	30-SEP-2003 23:25:31	Bright	40.500	49	1Alp UMi	1.9900	6300.0	81	8286	No
339	GOM_NL__2PRFIN20030930_232733_000000382020_00216_08286_0471.N1	30-SEP-2003 23:27:33	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	8286	No
340	GOM_NL__2PRFIN20030930_233325_000000372020_00216_08286_0472.N1	30-SEP-2003 23:33:25	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	8286	No
341	GOM_NL__2PRFIN20030930_233457_000000362020_00216_08286_0473.N1	30-SEP-2003 23:34:57	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	8286	No
342	GOM_NL__2PRFIN20030930_233810_000000512020_00216_08286_0474.N1	30-SEP-2003 23:38:10	Bright	51.000	174	52Psi UMa	3.0040	4400.0	102	8286	No
343	GOM_NL__2PRFIN20030930_234041_000000862020_00216_08286_0475.N1	30-SEP-2003 23:40:41	Bright	85.500	107	37The Aur	2.6490	11000.	171	8286	No
344	GOM_NL__2PRFIN20030930_234335_000000582020_00216_08286_0476.N1	30-SEP-2003 23:43:35	Bright	57.500	24	66Alp Gem	1.5800	10200.	115	8286	No
345	GOM_NL__2PRFIN20030930_234815_000000982020_00216_08286_0477.N1	30-SEP-2003 23:48:15	Twilight_stray	97.500	170	27Eps Gem	3.0000	9700.0	195	8286	No
346	GOM_NL__2PRFIN20030930_235421_000000822020_00216_08286_0478.N1	30-SEP-2003 23:54:21	Dark	82.000	8	10Alp CMi	0.40000	6500.0	164	8286	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.

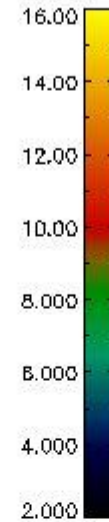
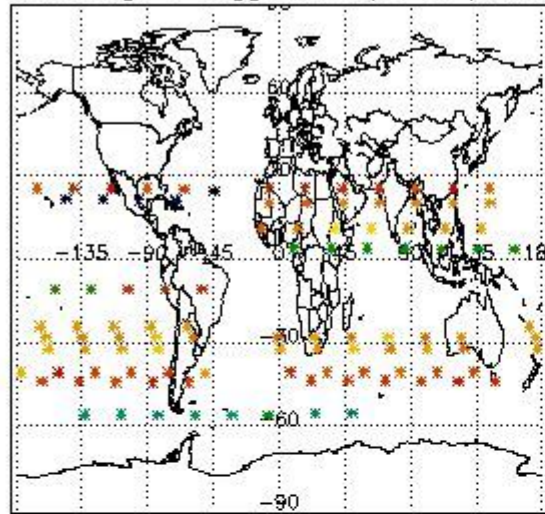
#### 3.1 Plot quality information per product (time dependant)



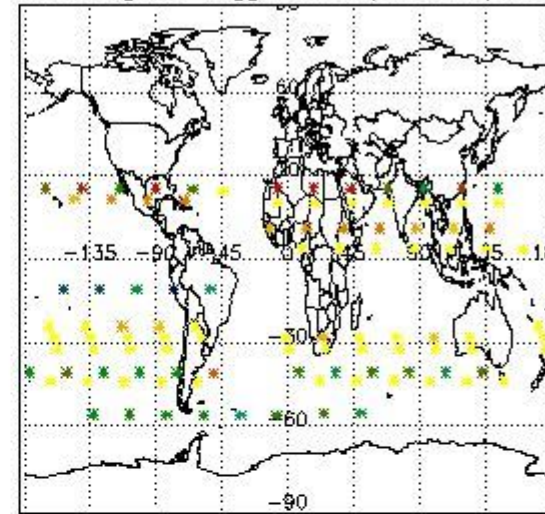
#### 3.2 Plot quality information per product (world map)



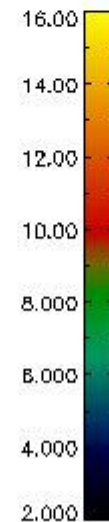
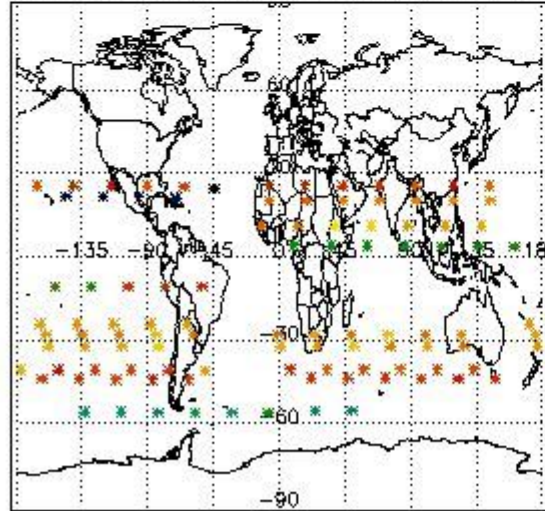
Percentage of flagged data per O3 profile



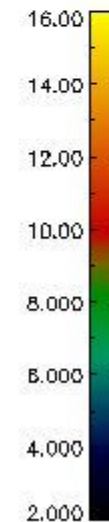
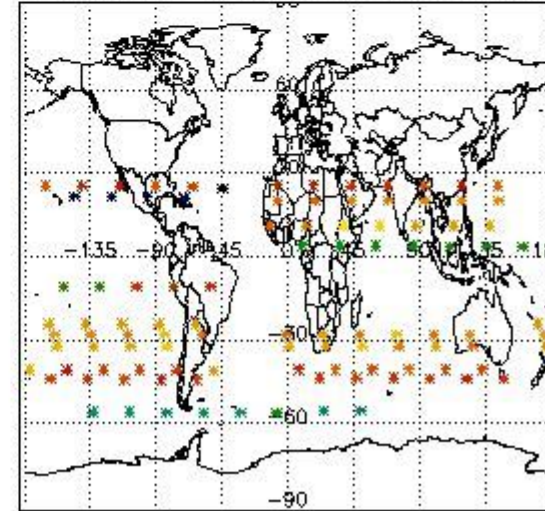
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

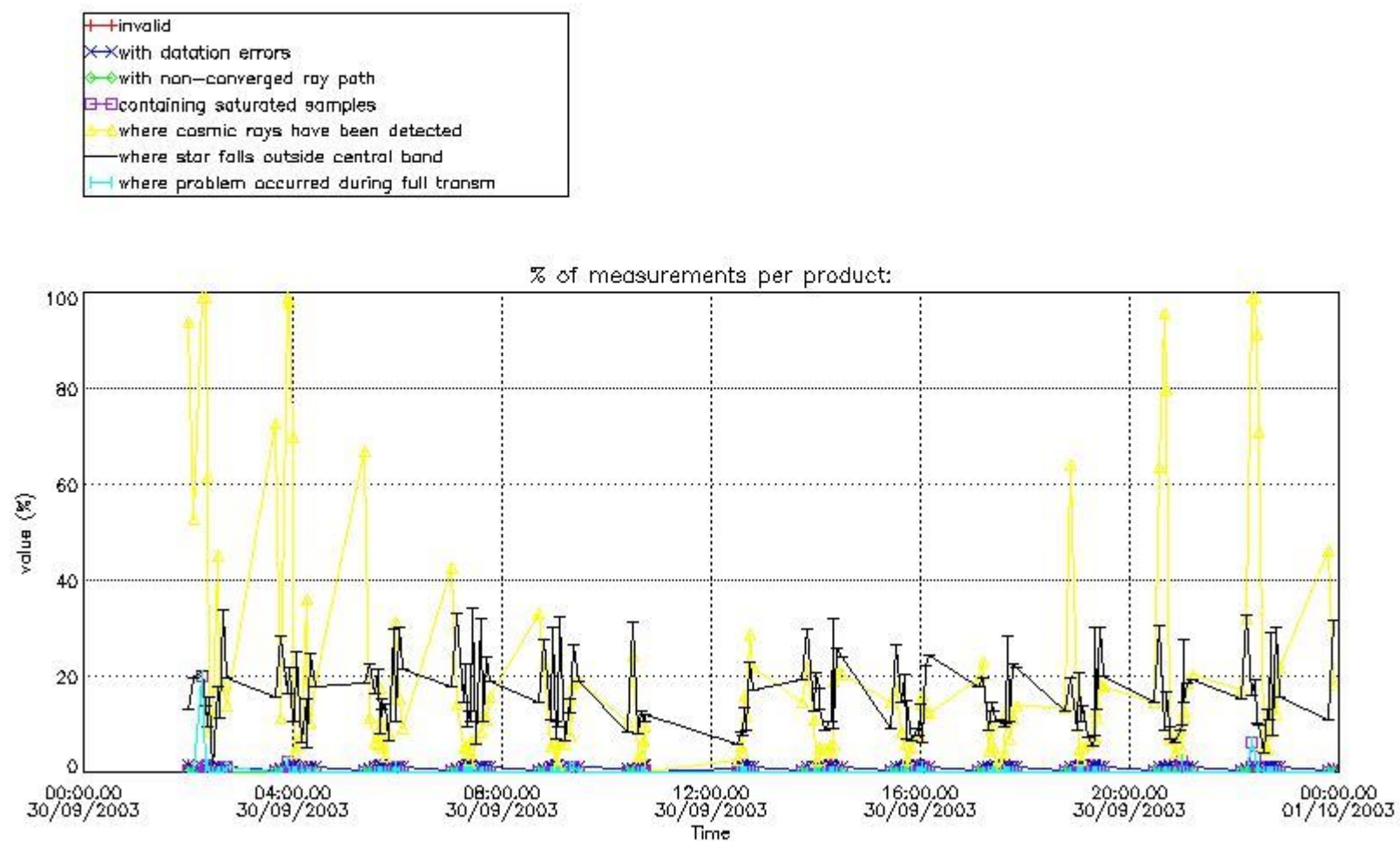


#### 4. Level 1 quality information per product

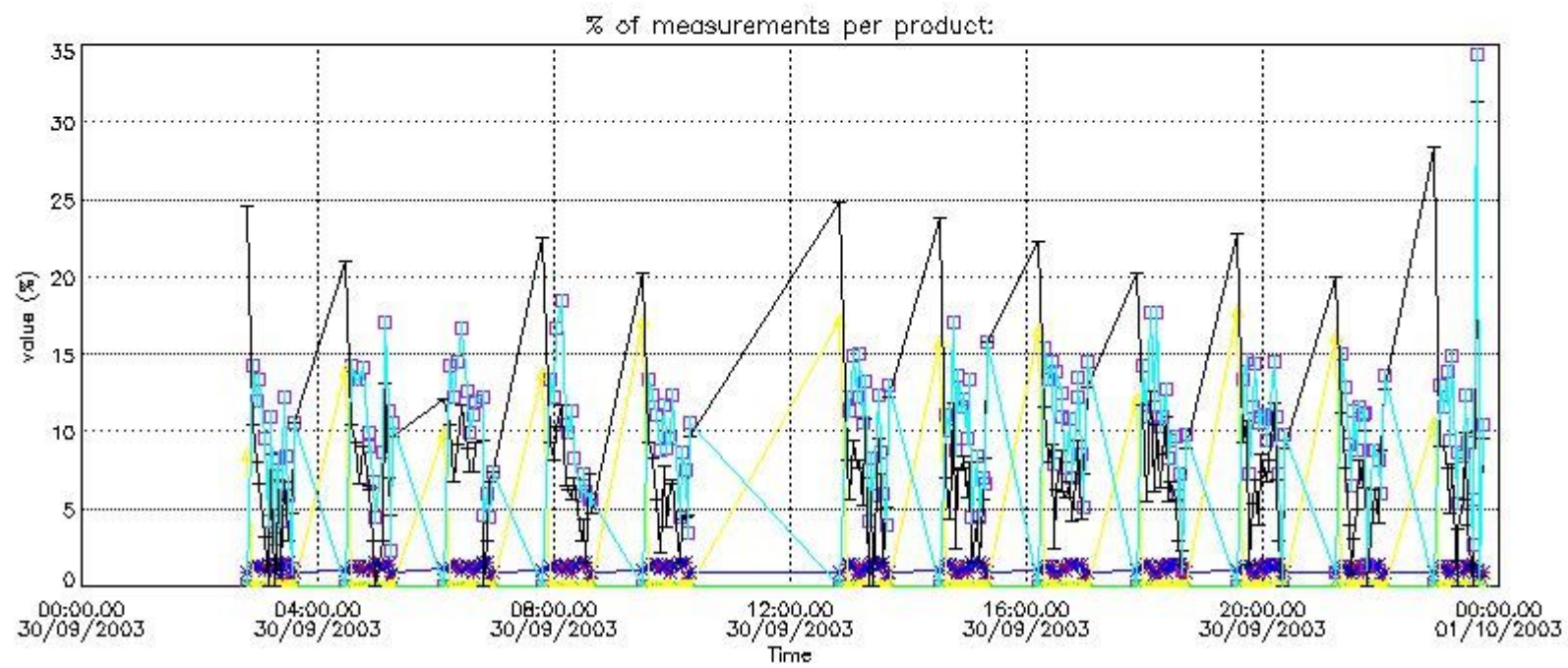
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



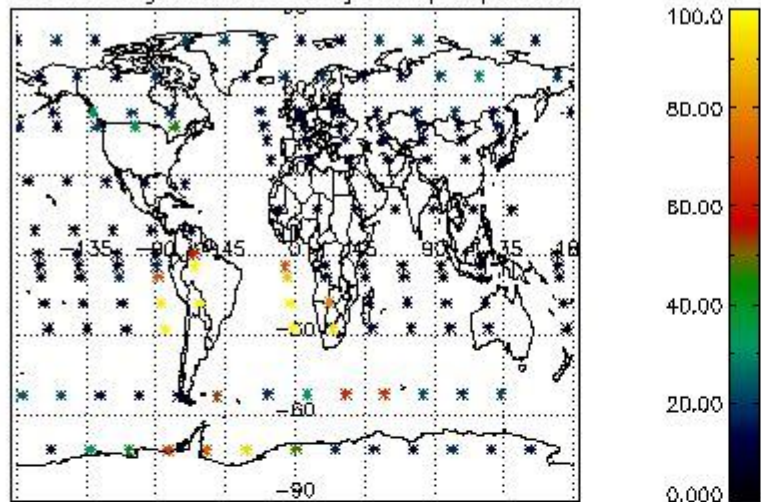
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



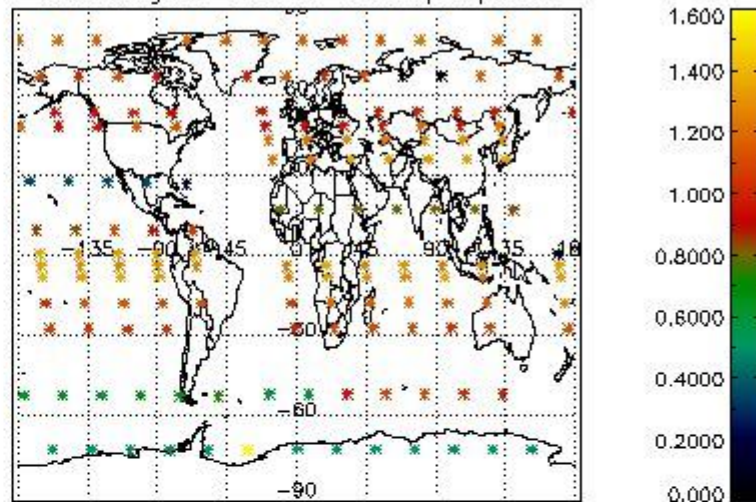
#### 4.2 Plot quality information per product coming from level 1b processing (world map)

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

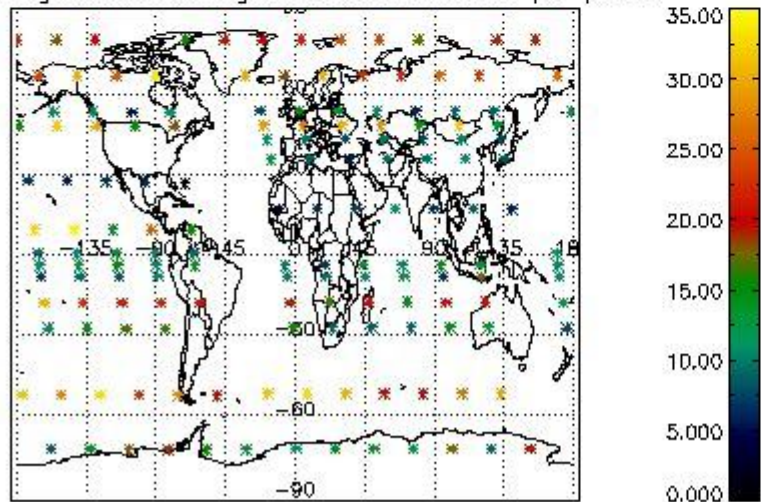
Percentage of cosmic ray hits per profile



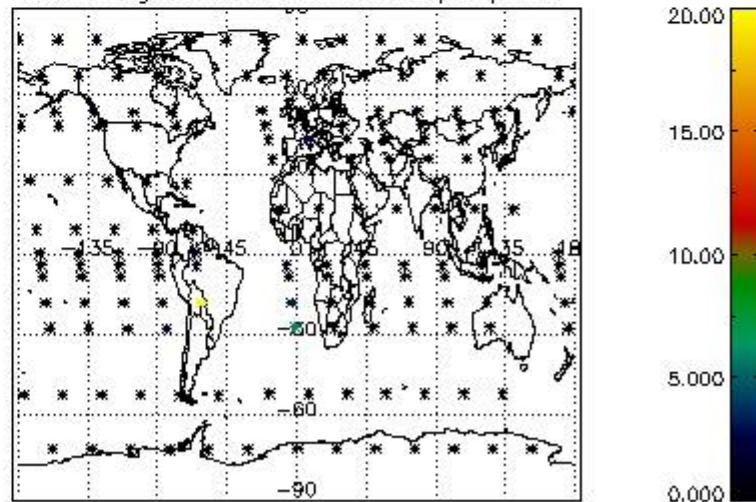
Percentage of datation errors per profile



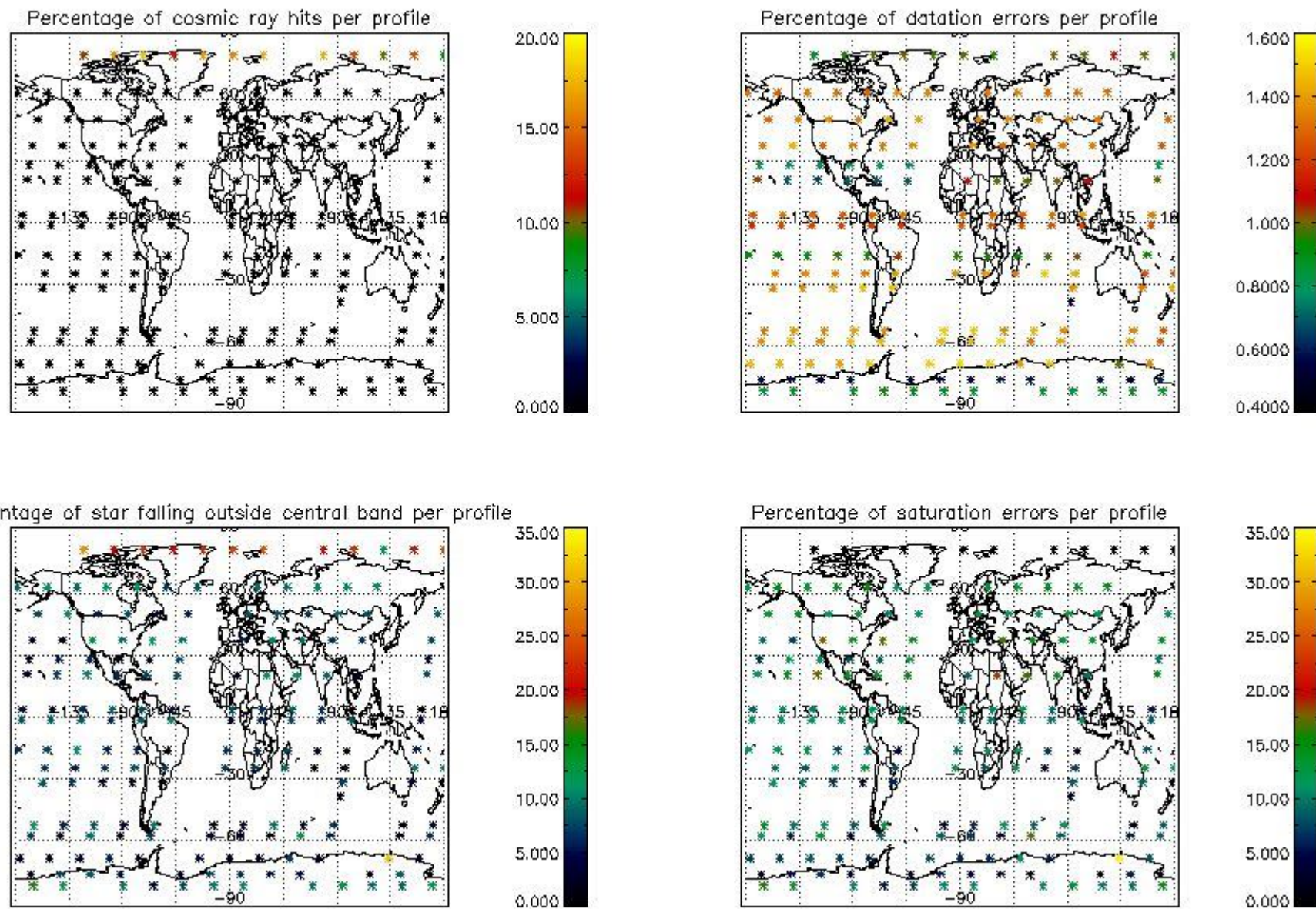
Percentage of star falling outside central band per profile



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

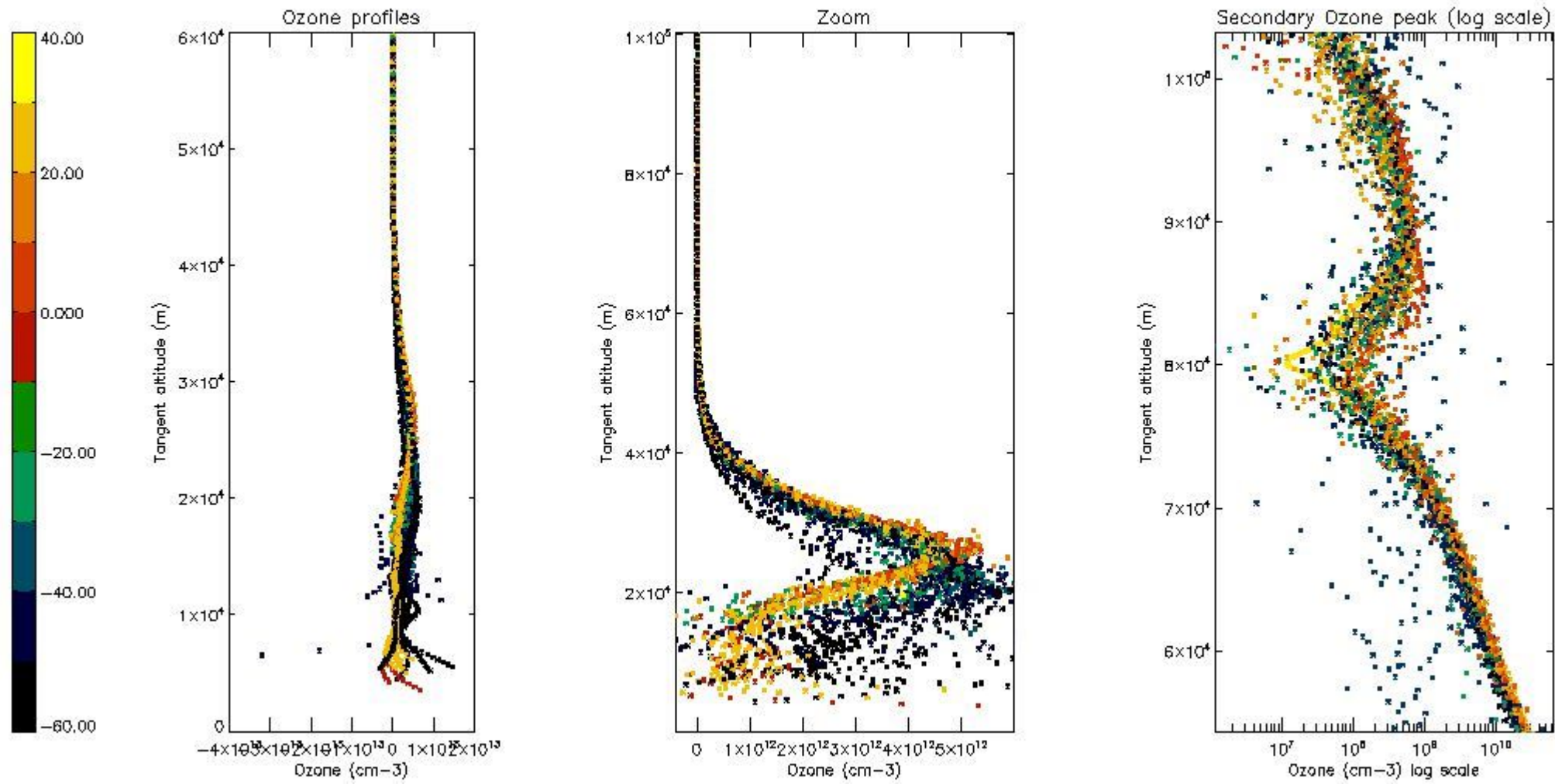
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	32
STD < 20	19

STD < 10	16
STD < 5	10

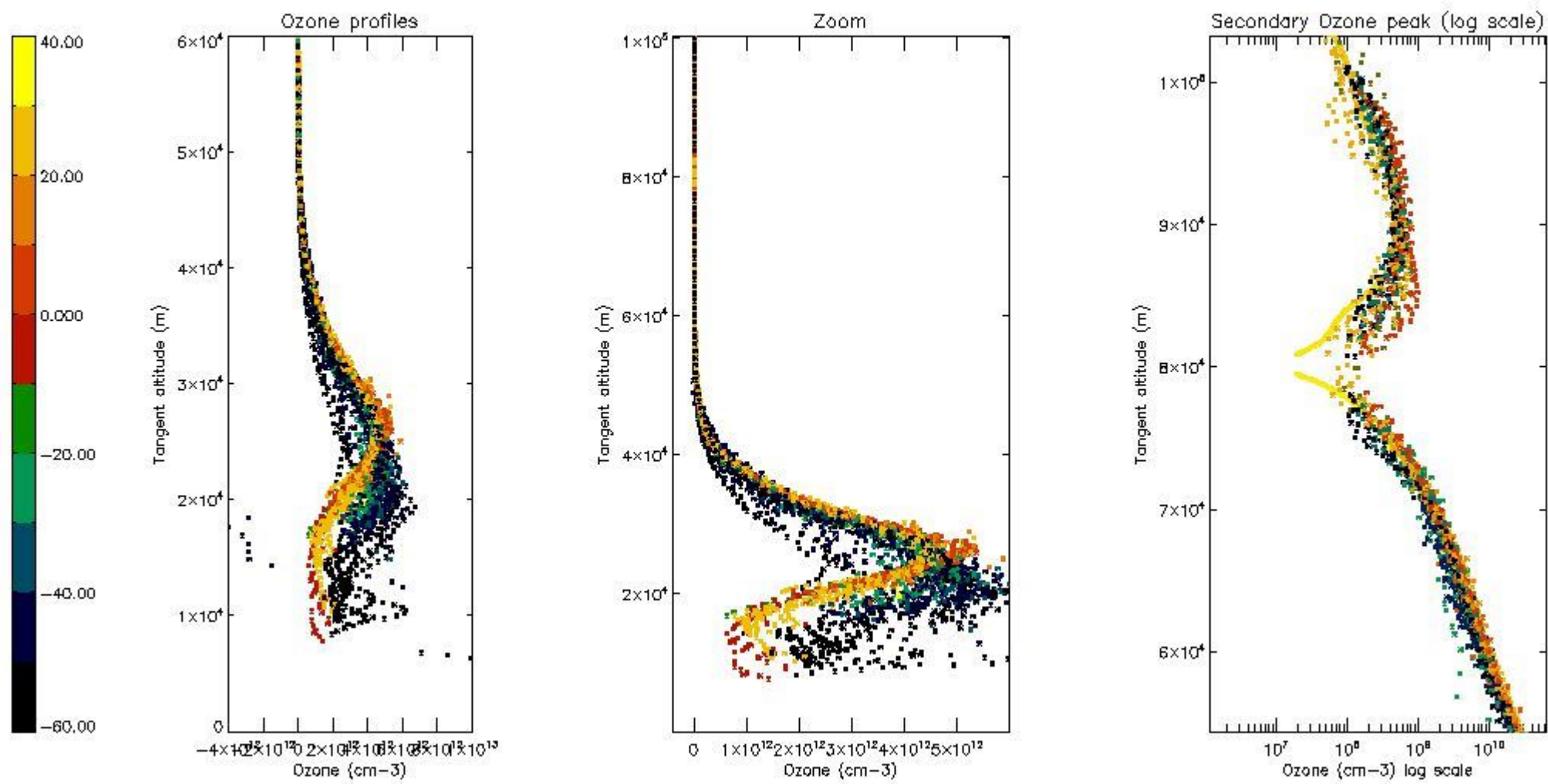
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



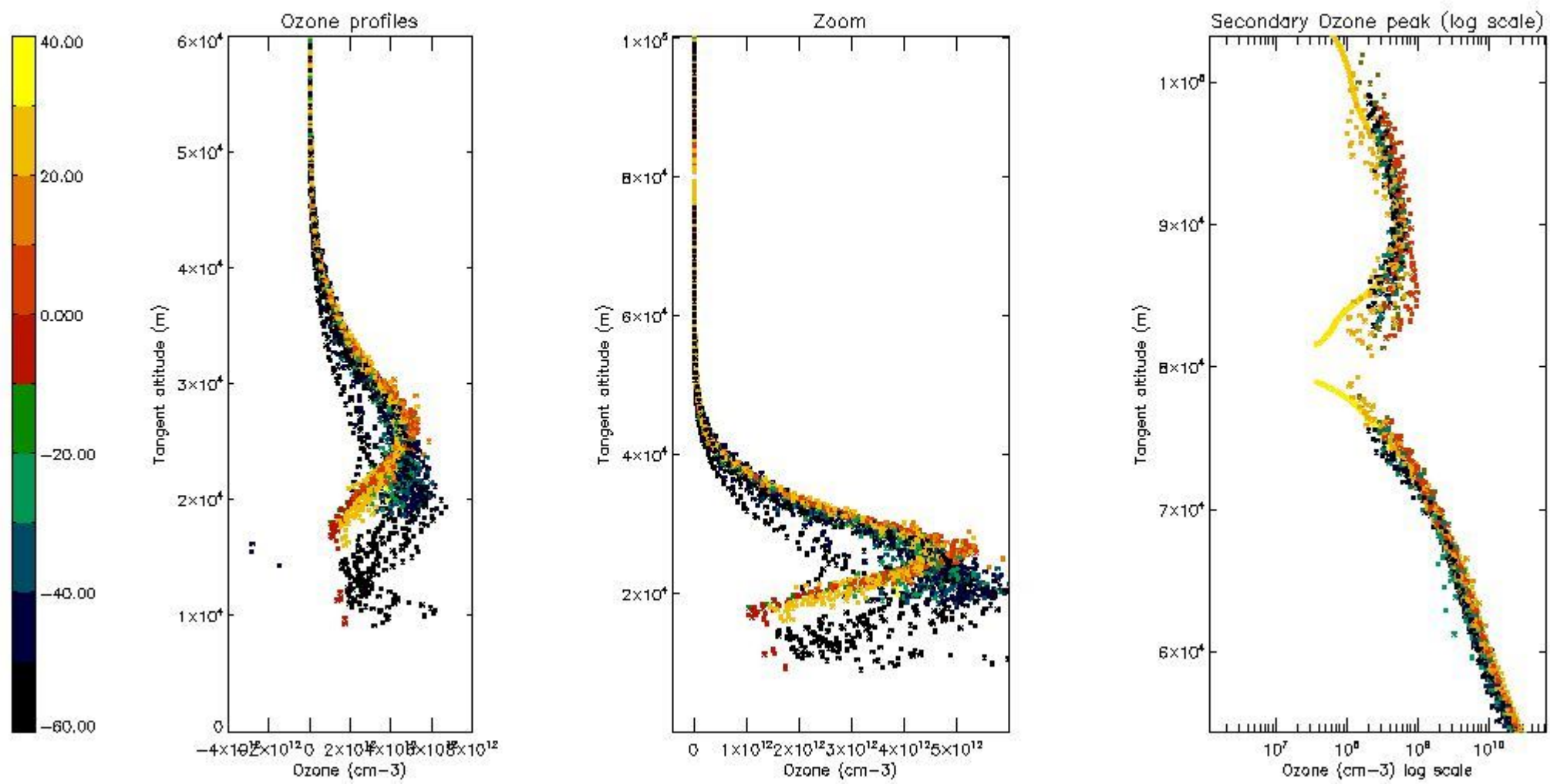
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



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

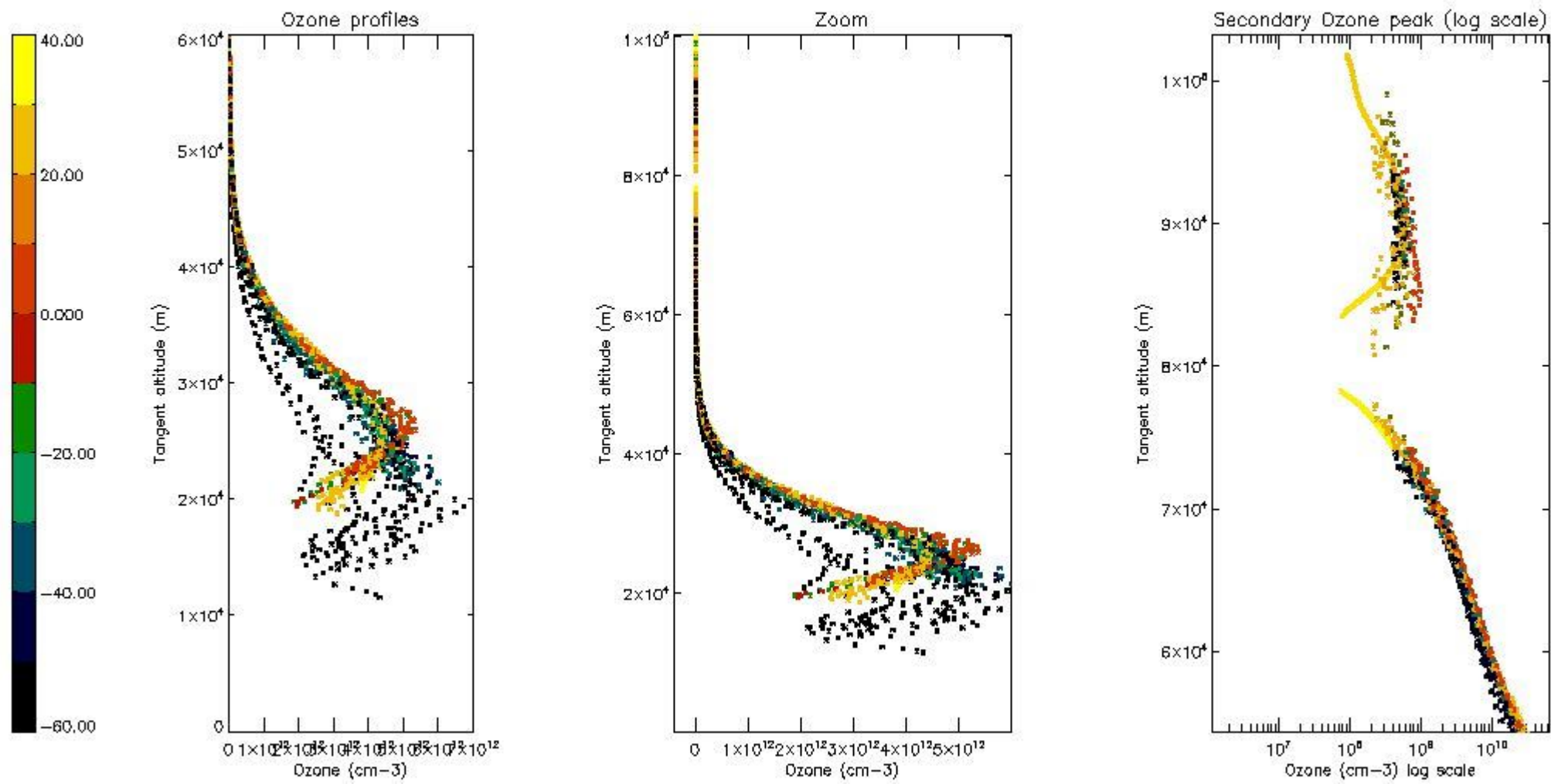
The colorbar represents the latitude.



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

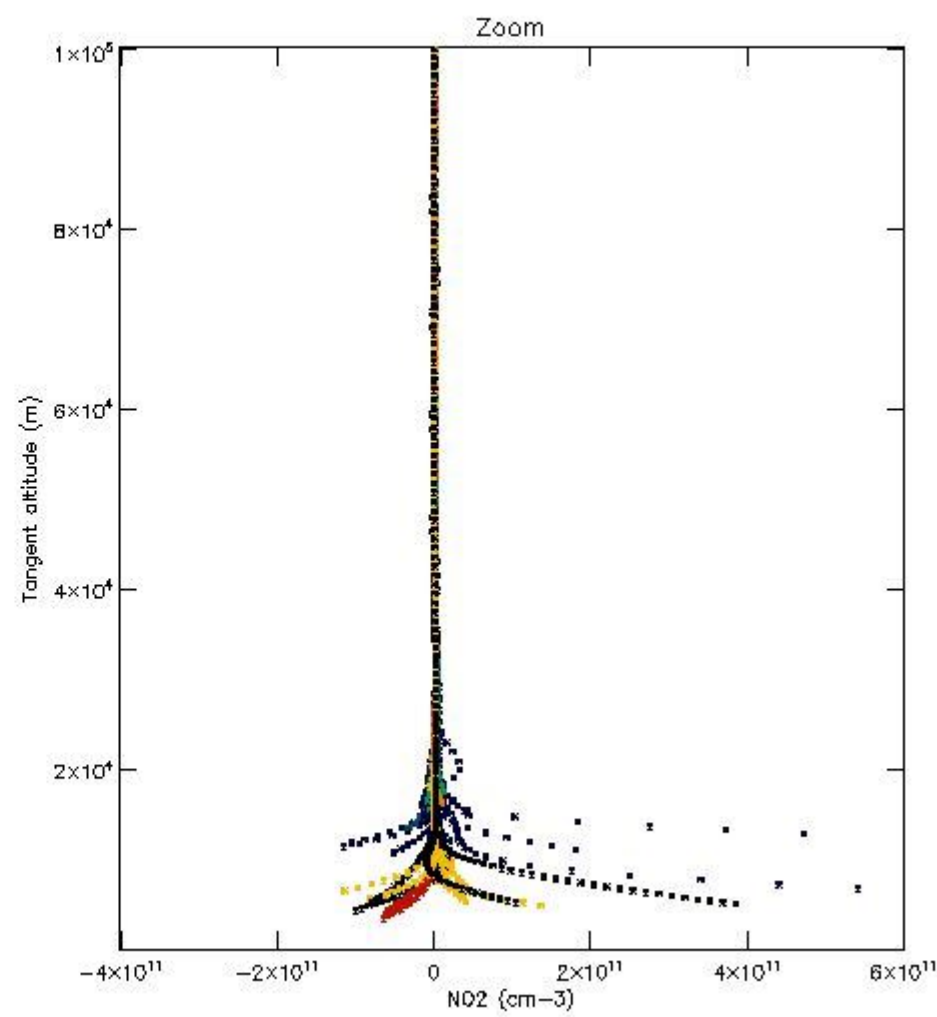
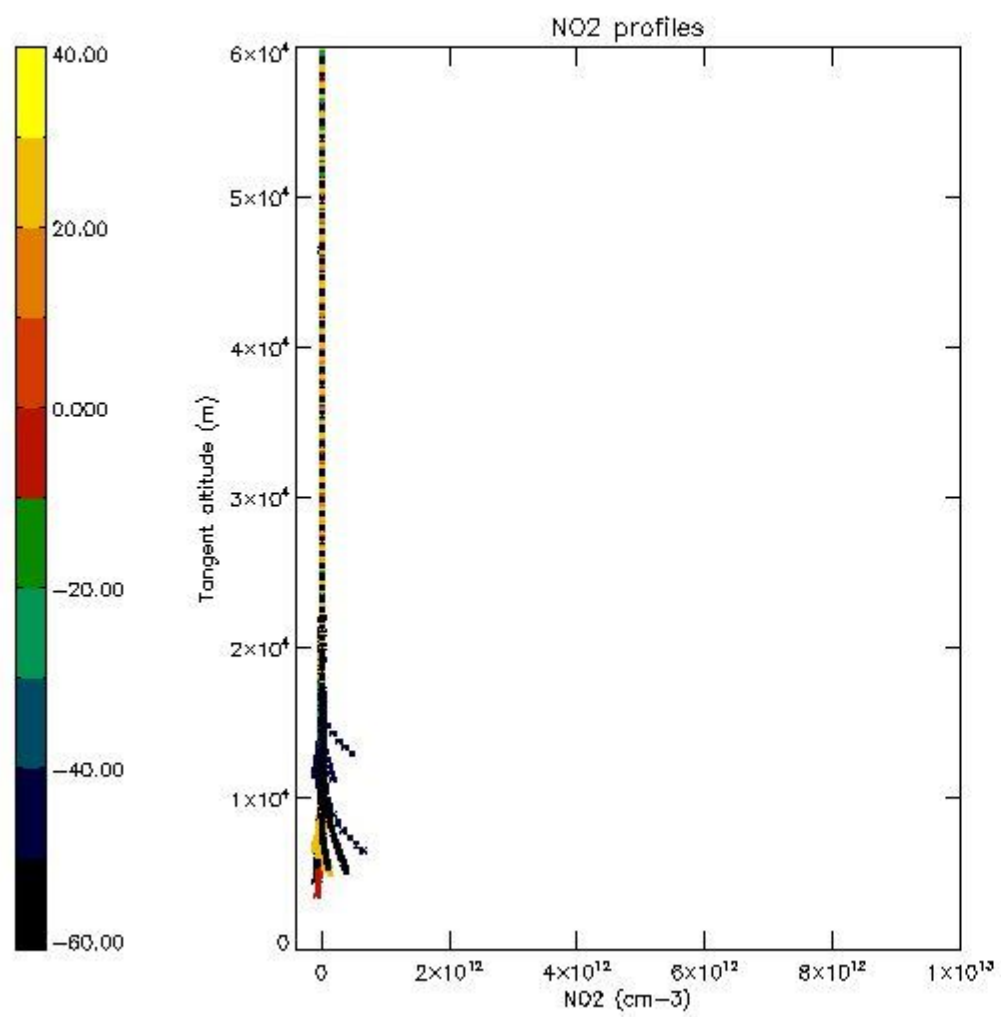
The colorbar represents the latitude.





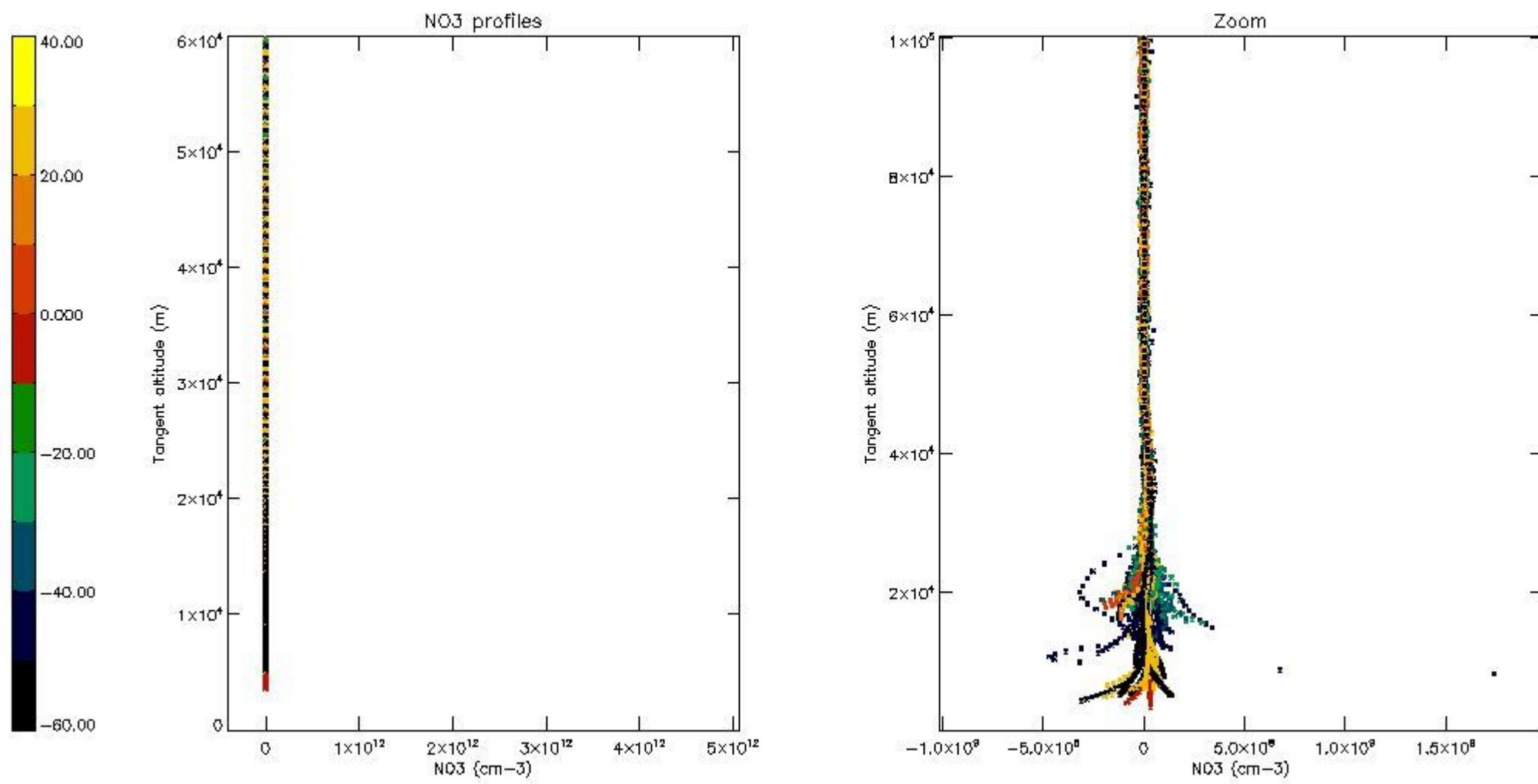
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



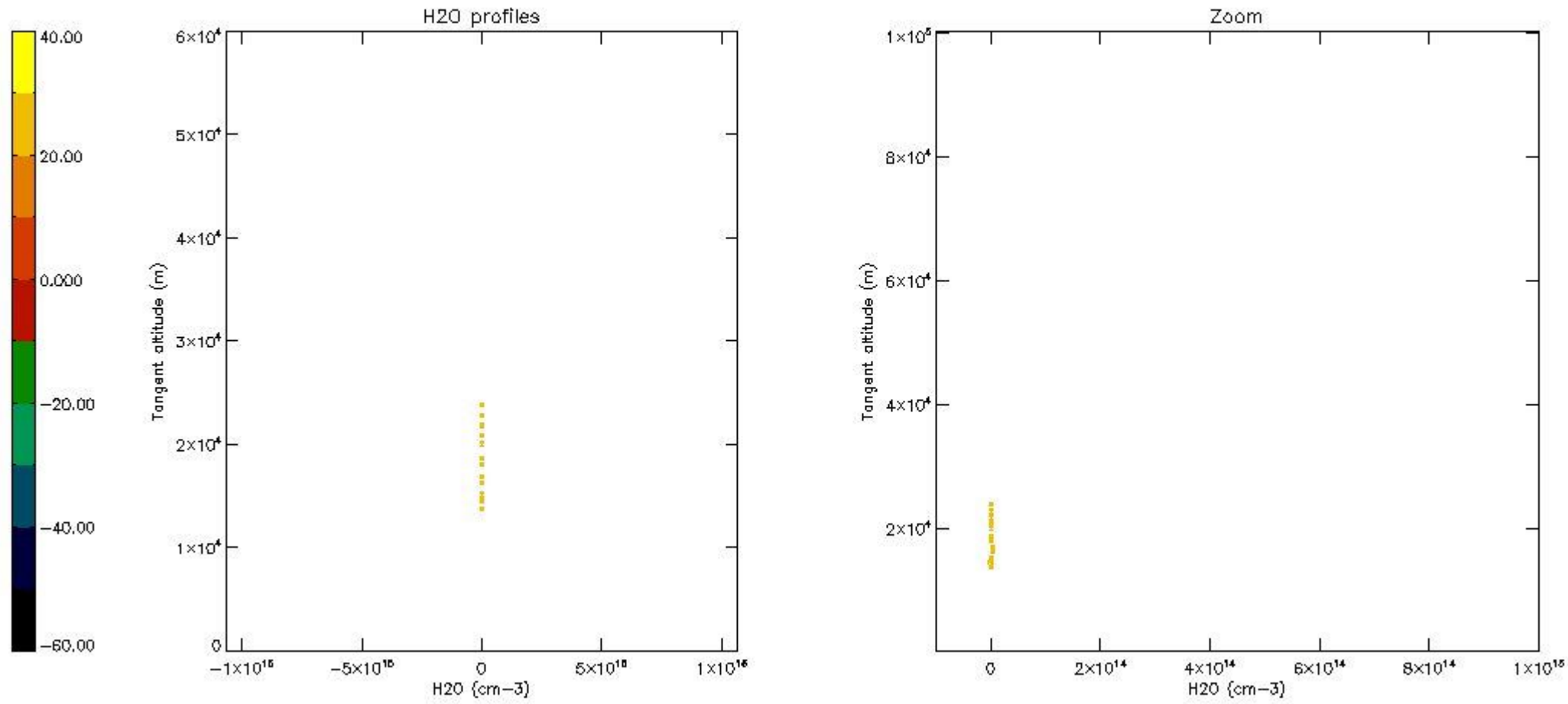
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



*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-SEP-2003 02:00:18
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	30-SEP-2003 02:00:18
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	30-SEP-2003 02:00:18

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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](#)

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









161	GOM_NL__2PRFIN20030930_131404_000000382020_00210_08280_9143.N1	30-SEP-2003 13:14:04	Bright	38.000	74	11Bet Cas	2.2680	6600.0	76	8280	No
162	GOM_NL__2PRFIN20030930_131526_000000422020_00210_08280_9144.N1	30-SEP-2003 13:15:26	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	8280	No
163	GOM_NL__2PRFIN20030930_131933_000000482020_00210_08280_9145.N1	30-SEP-2003 13:19:33	Bright	48.000	160	23Gam Per	2.9300	4700.0	96	8280	No
164	GOM_NL__2PRFIN20030930_132158_000000362020_00210_08280_9146.N1	30-SEP-2003 13:21:58	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	8280	No
165	GOM_NL__2PRFIN20030930_132357_000000342020_00210_08280_9147.N1	30-SEP-2003 13:23:57	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	8280	No
166	GOM_NL__2PRFIN20030930_132953_000000372020_00210_08280_9148.N1	30-SEP-2003 13:29:53	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	8280	No
167	GOM_NL__2PRFIN20030930_133123_000000352020_00210_08280_9149.N1	30-SEP-2003 13:31:23	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	8280	No
168	GOM_NL__2PRFIN20030930_133435_000000342020_00210_08280_9150.N1	30-SEP-2003 13:34:35	Bright	33.500	174	52Psi UMa	3.0040	4400.0	67	8280	No
169	GOM_NL__2PRFIN20030930_133708_000000882020_00210_08280_9151.N1	30-SEP-2003 13:37:08	Bright	88.000	107	37The Aur	2.6490	11000.	176	8280	No
170	GOM_NL__2PRFIN20030930_134000_000000582020_00210_08280_9152.N1	30-SEP-2003 13:40:00	Bright	57.500	24	66Alp Gem	1.5800	10200.	115	8280	No
171	GOM_NL__2PRFIN20030930_134436_000001032020_00210_08280_9153.N1	30-SEP-2003 13:44:36	Twilight	103.00	170	27Eps Gem	3.0000	9700.0	206	8280	No
172	GOM_NL__2PRFIN20030930_135046_000000512020_00210_08280_9154.N1	30-SEP-2003 13:50:46	Twilight	50.500	48	30Alp Hya	1.9770	4100.0	101	8280	No
173	GOM_NL__2PRFIN20030930_135745_000000472020_00210_08280_9155.N1	30-SEP-2003 13:57:45	Dark	46.500	132	15Rho Pup	2.8030	6900.0	93	8280	No
174	GOM_NL__2PRFIN20030930_140026_000000442020_00210_08280_9156.N1	30-SEP-2003 14:00:26	Dark	43.500	65	Lam Vel	2.2040	4400.0	87	8280	No
175	GOM_NL__2PRFIN20030930_140309_000000412020_00210_08280_9157.N1	30-SEP-2003 14:03:09	Dark	40.500	91	Kap Vel	2.4900	26000.	81	8280	No
176	GOM_NL__2PRFIN20030930_140419_000000392020_00210_08280_9158.N1	30-SEP-2003 14:04:19	Dark	38.500	71	lot Car	2.2460	7700.0	77	8280	No
177	GOM_NL__2PRFIN20030930_141011_000000632020_00211_08281_0451.N1	30-SEP-2003 14:10:11	Dark	63.000	108	Alp Col	2.6520	15200.	126	8281	No
178	GOM_NL__2PRFIN20030930_141528_000000382020_00211_08281_0452.N1	30-SEP-2003 14:15:28	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	8281	No
179	GOM_NL__2PRFIN20030930_141732_000000392020_00211_08281_0453.N1	30-SEP-2003 14:17:32	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	8281	No
180	GOM_NL__2PRFIN20030930_141900_000000522020_00211_08281_0454.N1	30-SEP-2003 14:19:00	Dark	51.500	9	Alp Eri	0.45300	24000.	103	8281	No
181	GOM_NL__2PRFIN20030930_142031_000000512020_00211_08281_0455.N1	30-SEP-2003 14:20:31	Straylight	50.500	157	The1Eri	2.9060	9300.0	101	8281	No
182	GOM_NL__2PRFIN20030930_142426_000000452020_00211_08281_0456.N1	30-SEP-2003 14:24:26	Straylight	44.500	63	Bet Gru	2.1500	2800.0	89	8281	No
183	GOM_NL__2PRFIN20030930_142904_000000442020_00211_08281_0457.N1	30-SEP-2003 14:29:04	Straylight	44.000	18	24Alp PsA	1.1660	9700.0	88	8281	No
184	GOM_NL__2PRFIN20030930_143121_000000512020_00211_08281_0458.N1	30-SEP-2003 14:31:21	Straylight	50.500	52	16Bet Cet	2.0370	4500.0	101	8281	No
185	GOM_NL__2PRFIN20030930_143747_000000362020_00211_08281_0459.N1	30-SEP-2003 14:37:47	Bright	36.000	162	34Alp Aqr	2.9440	5350.0	72	8281	No
186	GOM_NL__2PRFIN20030930_144133_000000352020_00211_08281_0460.N1	30-SEP-2003 14:41:33	Bright	35.000	90	54Alp Peg	2.4870	11000.	70	8281	No
187	GOM_NL__2PRFIN20030930_144511_000000382020_00211_08281_0461.N1	30-SEP-2003 14:45:11	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	8281	No
188	GOM_NL__2PRFIN20030930_144752_000000632020_00211_08281_0462.N1	30-SEP-2003 14:47:52	Bright	62.500	105	6Bet Ari	2.6450	8900.0	125	8281	No
189	GOM_NL__2PRFIN20030930_144955_000000742020_00211_08281_0463.N1	30-SEP-2003 14:49:55	Bright	73.500	50	13Alp Ari	2.0070	4250.0	147	8281	No
190	GOM_NL__2PRFIN20030930_145439_000000392020_00211_08281_0464.N1	30-SEP-2003 14:54:39	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	8281	No
191	GOM_NL__2PRFIN20030930_145601_000000422020_00211_08281_0465.N1	30-SEP-2003 14:56:01	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	8281	No
192	GOM_NL__2PRFIN20030930_150008_000000532020_00211_08281_0466.N1	30-SEP-2003 15:00:08	Bright	52.500	160	23Gam Per	2.9300	4700.0	105	8281	No
193	GOM_NL__2PRFIN20030930_150233_000000382020_00211_08281_0467.N1	30-SEP-2003 15:02:33	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	8281	No
194	GOM_NL__2PRFIN20030930_150433_000000342020_00211_08281_0468.N1	30-SEP-2003 15:04:33	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	8281	No
195	GOM_NL__2PRFIN20030930_151028_000000362020_00211_08281_0469.N1	30-SEP-2003 15:10:28	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	8281	No
196	GOM_NL__2PRFIN20030930_151158_000000342020_00211_08281_0470.N1	30-SEP-2003 15:11:58	Bright	34.000	82	48Bet UMa	2.3650	10600.	68	8281	No
197	GOM_NL__2PRFIN20030930_151511_000000362020_00211_08281_0471.N1	30-SEP-2003 15:15:11	Bright	35.500	174	52Psi UMa	3.0040	4400.0	71	8281	No
198	GOM_NL__2PRFIN20030930_151743_000000912020_00211_08281_0472.N1	30-SEP-2003 15:17:43	Bright	91.000	107	37The Aur	2.6490	11000.	182	8281	No
199	GOM_NL__2PRFIN20030930_152035_000000602020_00211_08281_0473.N1	30-SEP-2003 15:20:35	Bright	60.000	24	66Alp Gem	1.5800	10200.	120	8281	No
200	GOM_NL__2PRFIN20030930_152512_000000932020_00211_08281_0474.N1	30-SEP-2003 15:25:12	Twilight	93.000	170	27Eps Gem	3.0000	9700.0	186	8281	No
201	GOM_NL__2PRFIN20030930_153121_000000492020_00211_08281_0475.N1	30-SEP-2003 15:31:21	Twilight	49.000	48	30Alp Hya	1.9770	4100.0	98	8281	No
202	GOM_NL__2PRFIN20030930_153821_000000492020_00211_08281_0476.N1	30-SEP-2003 15:38:21	Dark	48.500	132	15Rho Pup	2.8030	6900.0	97	8281	No
203	GOM_NL__2PRFIN20030930_154102_000000442020_00211_08281_0477.N1	30-SEP-2003 15:41:02	Dark	44.000	65	Lam Vel	2.2040	4400.0	88	8281	No
204	GOM_NL__2PRFIN20030930_154344_000000372020_00211_08281_0478.N1	30-SEP-2003 15:43:44	Dark	37.000	91	Kap Vel	2.4900	26000.	74	8281	No
205	GOM_NL__2PRFIN20030930_154454_000000412020_00211_08281_0479.N1	30-SEP-2003 15:44:54	Dark	40.500	71	lot Car	2.2460	7700.0	81	8281	No
206	GOM_NL__2PRFIN20030930_155048_000000612020_00212_08282_0451.N1	30-SEP-2003 15:50:48	Dark	60.500	108	Alp Col	2.6520	15200.	121	8282	No
207	GOM_NL__2PRFIN20030930_155603_000000382020_00212_08282_0452.N1	30-SEP-2003 15:56:03	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	8282	No
208	GOM_NL__2PRFIN20030930_155808_000000392020_00212_08282_0453.N1	30-SEP-2003 15:58:08	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	8282	No
209	GOM_NL__2PRFIN20030930_155936_000000422020_00212_08282_0454.N1	30-SEP-2003 15:59:36	Dark	42.000	9	Alp Eri	0.45300	24000.	84	8282	No
210	GOM_NL__2PRFIN20030930_160107_000000502020_00212_08282_0455.N1	30-SEP-2003 16:01:07	Straylight	50.000	157	The1Eri	2.9060	9300.0	100	8282	No
211	GOM_NL__2PRFIN20030930_160501_000000432020_00212_08282_0456.N1	30-SEP-2003 16:05:01	Straylight	43.000	63	Bet Gru	2.1500	2800.0	86	8282	No
212	GOM_NL__2PRFIN20030930_160940_000000452020_00212_08282_0457.N1	30-SEP-2003 16:09:40	Straylight	45.000	18	24Alp PsA	1.1660	9700.0	90	8282	No
213	GOM_NL__2PRFIN20030930_161156_000000522020_00212_08282_0458.N1	30-SEP-2003 16:11:56	Straylight	51.500	52	16Bet Cet	2.0370	4500.0	103	8282	No
214	GOM_NL__2PRFIN20030930_161822_000000392020_00212_08282_0459.N1	30-SEP-2003 16:18:22	Bright	39.000	162	34Alp Aqr	2.9440	5350.0	78	8282	No
215	GOM_NL__2PRFIN20030930_162208_000000382020_00212_08282_0460.N1	30-SEP-2003 16:22:08	Bright	37.500	90	54Alp Peg	2.4870	11000.	75	8282	No
216	GOM_NL__2PRFIN20030930_162547_000000382020_00212_08282_0461.N1	30-SEP-2003 16:25:47	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	8282	No
217	GOM_NL__2PRFIN20030930_162826_000000632020_00212_08282_0462.N1	30-SEP-2003 16:28:26	Bright	63.000	105	6Bet Ari	2.6450	8900.0	126	8282	No
218	GOM_NL__2PRFIN20030930_163030_000000722020_00212_08282_0463.N1	30-SEP-2003 16:30:30	Bright	72.000	50	13Alp Ari	2.0070	4250.0	144	8282	No
219	GOM_NL__2PRFIN20030930_163514_000000402020_00212_08282_0464.N1	30-SEP-2003 16:35:14	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	8282	No

220	GOM_NL__2PRFIN20030930_163637_000000412020_00212_08282_0465.N1	30-SEP-2003 16:36:37	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	8282	No
221	GOM_NL__2PRFIN20030930_164043_000000522020_00212_08282_0466.N1	30-SEP-2003 16:40:43	Bright	52.000	160	23Gam Per	2.9300	4700.0	104	8282	No
222	GOM_NL__2PRFIN20030930_164309_000000372020_00212_08282_0467.N1	30-SEP-2003 16:43:09	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	8282	No
223	GOM_NL__2PRFIN20030930_164509_000000362020_00212_08282_0468.N1	30-SEP-2003 16:45:09	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	8282	No
224	GOM_NL__2PRFIN20030930_165105_000000372020_00212_08282_0469.N1	30-SEP-2003 16:51:05	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	8282	No
225	GOM_NL__2PRFIN20030930_165235_000000372020_00212_08282_0470.N1	30-SEP-2003 16:52:35	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	8282	No
226	GOM_NL__2PRFIN20030930_165547_000000352020_00212_08282_0471.N1	30-SEP-2003 16:55:47	Bright	35.000	174	52Psi UMa	3.0040	4400.0	70	8282	No
227	GOM_NL__2PRFIN20030930_165819_000000902020_00212_08282_0472.N1	30-SEP-2003 16:58:19	Bright	89.500	107	37The Aur	2.6490	11000.	179	8282	No
228	GOM_NL__2PRFIN20030930_170112_000000592020_00212_08282_0473.N1	30-SEP-2003 17:01:12	Bright	58.500	24	66Alp Gem	1.5800	10200.	117	8282	No
229	GOM_NL__2PRFIN20030930_170549_000001022020_00212_08282_0474.N1	30-SEP-2003 17:05:49	Twi_and_stray	102.00	170	27Eps Gem	3.0000	9700.0	204	8282	No
230	GOM_NL__2PRFIN20030930_171157_000000462020_00212_08282_0475.N1	30-SEP-2003 17:11:57	Twilight	46.000	48	30Alp Hya	1.9770	4100.0	92	8282	No
231	GOM_NL__2PRFIN20030930_171858_000000462020_00212_08282_0476.N1	30-SEP-2003 17:18:58	Dark	45.500	132	15Rho Pup	2.8030	6900.0	91	8282	No
232	GOM_NL__2PRFIN20030930_172138_000000412020_00212_08282_0477.N1	30-SEP-2003 17:21:38	Dark	41.000	65	Lam Vel	2.2040	4400.0	82	8282	No
233	GOM_NL__2PRFIN20030930_172420_000000402020_00212_08282_0478.N1	30-SEP-2003 17:24:20	Dark	39.500	91	Kap Vel	2.4900	26000.	79	8282	No
234	GOM_NL__2PRFIN20030930_172530_000000392020_00212_08282_0479.N1	30-SEP-2003 17:25:30	Dark	38.500	71	lot Car	2.2460	7700.0	77	8282	No
235	GOM_NL__2PRFIN20030930_173126_000000652020_00213_08283_0562.N1	30-SEP-2003 17:31:26	Dark	64.500	108	Alp Col	2.6520	15200.	129	8283	No
236	GOM_NL__2PRFIN20030930_173639_000000382020_00213_08283_0563.N1	30-SEP-2003 17:36:39	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	8283	No
237	GOM_NL__2PRFIN20030930_173844_000000402020_00213_08283_0564.N1	30-SEP-2003 17:38:44	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	8283	No
238	GOM_NL__2PRFIN20030930_174012_000000512020_00213_08283_0565.N1	30-SEP-2003 17:40:12	Dark	51.000	9	Alp Eri	0.45300	24000.	102	8283	No
239	GOM_NL__2PRFIN20030930_174144_000000522020_00213_08283_0566.N1	30-SEP-2003 17:41:44	Straylight	52.000	157	The1Eri	2.9060	9300.0	104	8283	No
240	GOM_NL__2PRFIN20030930_174538_000000452020_00213_08283_0567.N1	30-SEP-2003 17:45:38	Straylight	44.500	63	Bet Gru	2.1500	2800.0	89	8283	No
241	GOM_NL__2PRFIN20030930_175016_000000442020_00213_08283_0568.N1	30-SEP-2003 17:50:16	Straylight	43.500	18	24Alp PsA	1.1660	9700.0	87	8283	No
242	GOM_NL__2PRFIN20030930_175232_000000502020_00213_08283_0569.N1	30-SEP-2003 17:52:32	Straylight	49.500	52	16Bet Cet	2.0370	4500.0	99	8283	No
243	GOM_NL__2PRFIN20030930_175858_000000392020_00213_08283_0570.N1	30-SEP-2003 17:58:58	Bright	38.500	162	34Alp Aqr	2.9440	5350.0	77	8283	No
244	GOM_NL__2PRFIN20030930_180244_000000372020_00213_08283_0571.N1	30-SEP-2003 18:02:44	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	8283	No
245	GOM_NL__2PRFIN20030930_180623_000000402020_00213_08283_0572.N1	30-SEP-2003 18:06:23	Bright	39.500	93	53Bet Peg	2.5200	3100.0	79	8283	No
246	GOM_NL__2PRFIN20030930_180901_000000652020_00213_08283_0573.N1	30-SEP-2003 18:09:01	Bright	65.000	105	6Bet Ari	2.6450	8900.0	130	8283	No
247	GOM_NL__2PRFIN20030930_181104_000000772020_00213_08283_0574.N1	30-SEP-2003 18:11:04	Bright	76.500	50	13Alp Ari	2.0070	4250.0	153	8283	No
248	GOM_NL__2PRFIN20030930_181550_000000392020_00213_08283_0575.N1	30-SEP-2003 18:15:50	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	8283	No
249	GOM_NL__2PRFIN20030930_181712_000000412020_00213_08283_0576.N1	30-SEP-2003 18:17:12	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	8283	No
250	GOM_NL__2PRFIN20030930_182118_000000552020_00213_08283_0577.N1	30-SEP-2003 18:21:18	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	8283	No
251	GOM_NL__2PRFIN20030930_182345_000000372020_00213_08283_0578.N1	30-SEP-2003 18:23:45	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	8283	No
252	GOM_NL__2PRFIN20030930_182546_000000372020_00213_08283_0579.N1	30-SEP-2003 18:25:46	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	8283	No
253	GOM_NL__2PRFIN20030930_183141_000000362020_00213_08283_0580.N1	30-SEP-2003 18:31:41	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	8283	No
254	GOM_NL__2PRFIN20030930_183311_000000352020_00213_08283_0581.N1	30-SEP-2003 18:33:11	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	8283	No
255	GOM_NL__2PRFIN20030930_183623_000000352020_00213_08283_0582.N1	30-SEP-2003 18:36:23	Bright	34.500	174	52Psi UMa	3.0040	4400.0	69	8283	No
256	GOM_NL__2PRFIN20030930_183855_000000872020_00213_08283_0583.N1	30-SEP-2003 18:38:55	Bright	86.500	107	37The Aur	2.6490	11000.	173	8283	No
257	GOM_NL__2PRFIN20030930_184148_000000562020_00213_08283_0584.N1	30-SEP-2003 18:41:48	Bright	56.000	24	66Alp Gem	1.5800	10200.	112	8283	No
258	GOM_NL__2PRFIN20030930_184626_000000972020_00213_08283_0585.N1	30-SEP-2003 18:46:26	Twi_and_stray	97.000	170	27Eps Gem	3.0000	9700.0	194	8283	No
259	GOM_NL__2PRFIN20030930_185234_000000462020_00213_08283_0586.N1	30-SEP-2003 18:52:34	Twilight	46.000	48	30Alp Hya	1.9770	4100.0	92	8283	No
260	GOM_NL__2PRFIN20030930_185935_000000462020_00213_08283_0587.N1	30-SEP-2003 18:59:35	Dark	46.000	132	15Rho Pup	2.8030	6900.0	92	8283	No
261	GOM_NL__2PRFIN20030930_190215_000000442020_00213_08283_0588.N1	30-SEP-2003 19:02:15	Dark	43.500	65	Lam Vel	2.2040	4400.0	87	8283	No
262	GOM_NL__2PRFIN20030930_190457_000000392020_00213_08283_0589.N1	30-SEP-2003 19:04:57	Dark	38.500	91	Kap Vel	2.4900	26000.	77	8283	No
263	GOM_NL__2PRFIN20030930_190607_000000402020_00213_08283_0590.N1	30-SEP-2003 19:06:07	Dark	40.000	71	lot Car	2.2460	7700.0	80	8283	No
264	GOM_NL__2PRFIN20030930_191203_000000622020_00214_08284_0563.N1	30-SEP-2003 19:12:03	Dark	62.000	108	Alp Col	2.6520	15200.	124	8284	No
265	GOM_NL__2PRFIN20030930_191715_000000372020_00214_08284_0564.N1	30-SEP-2003 19:17:15	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	8284	No
266	GOM_NL__2PRFIN20030930_191921_000000392020_00214_08284_0565.N1	30-SEP-2003 19:19:21	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	8284	No
267	GOM_NL__2PRFIN20030930_192049_000000522020_00214_08284_0566.N1	30-SEP-2003 19:20:49	Dark	51.500	9	Alp Eri	0.45300	24000.	103	8284	No
268	GOM_NL__2PRFIN20030930_192221_000000532020_00214_08284_0567.N1	30-SEP-2003 19:22:21	Straylight	53.000	157	The1Eri	2.9060	9300.0	106	8284	No
269	GOM_NL__2PRFIN20030930_192614_000000502020_00214_08284_0568.N1	30-SEP-2003 19:26:14	Straylight	49.500	63	Bet Gru	2.1500	2800.0	99	8284	No
270	GOM_NL__2PRFIN20030930_193052_000000432020_00214_08284_0569.N1	30-SEP-2003 19:30:52	Straylight	42.500	18	24Alp PsA	1.1660	9700.0	85	8284	No
271	GOM_NL__2PRFIN20030930_193309_000000512020_00214_08284_0570.N1	30-SEP-2003 19:33:09	Straylight	50.500	52	16Bet Cet	2.0370	4500.0	101	8284	No
272	GOM_NL__2PRFIN20030930_193935_000000382020_00214_08284_0571.N1	30-SEP-2003 19:39:35	Bright	37.500	162	34Alp Aqr	2.9440	5350.0	75	8284	No
273	GOM_NL__2PRFIN20030930_194320_000000382020_00214_08284_0572.N1	30-SEP-2003 19:43:20	Bright	37.500	90	54Alp Peg	2.4870	11000.	75	8284	No
274	GOM_NL__2PRFIN20030930_194659_000000352020_00214_08284_0573.N1	30-SEP-2003 19:46:59	Bright	34.500	93	53Bet Peg	2.5200	3100.0	69	8284	No
275	GOM_NL__2PRFIN20030930_194936_000000652020_00214_08284_0574.N1	30-SEP-2003 19:49:36	Bright	65.000	105	6Bet Ari	2.6450	8900.0	130	8284	No
276	GOM_NL__2PRFIN20030930_195138_000000732020_00214_08284_0575.N1	30-SEP-2003 19:51:38	Bright	73.000	50	13Alp Ari	2.0070	4250.0	146	8284	No
277	GOM_NL__2PRFIN20030930_195626_000000382020_00214_08284_0576.N1	30-SEP-2003 19:56:26	Bright	38.000	74	11Bet Cas	2.2680	6600.0	76	8284	No
278	GOM_NL__2PRFIN20030930_195748_000000412020_00214_08284_0577.N1	30-SEP-2003 19:57:48	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	8284	No

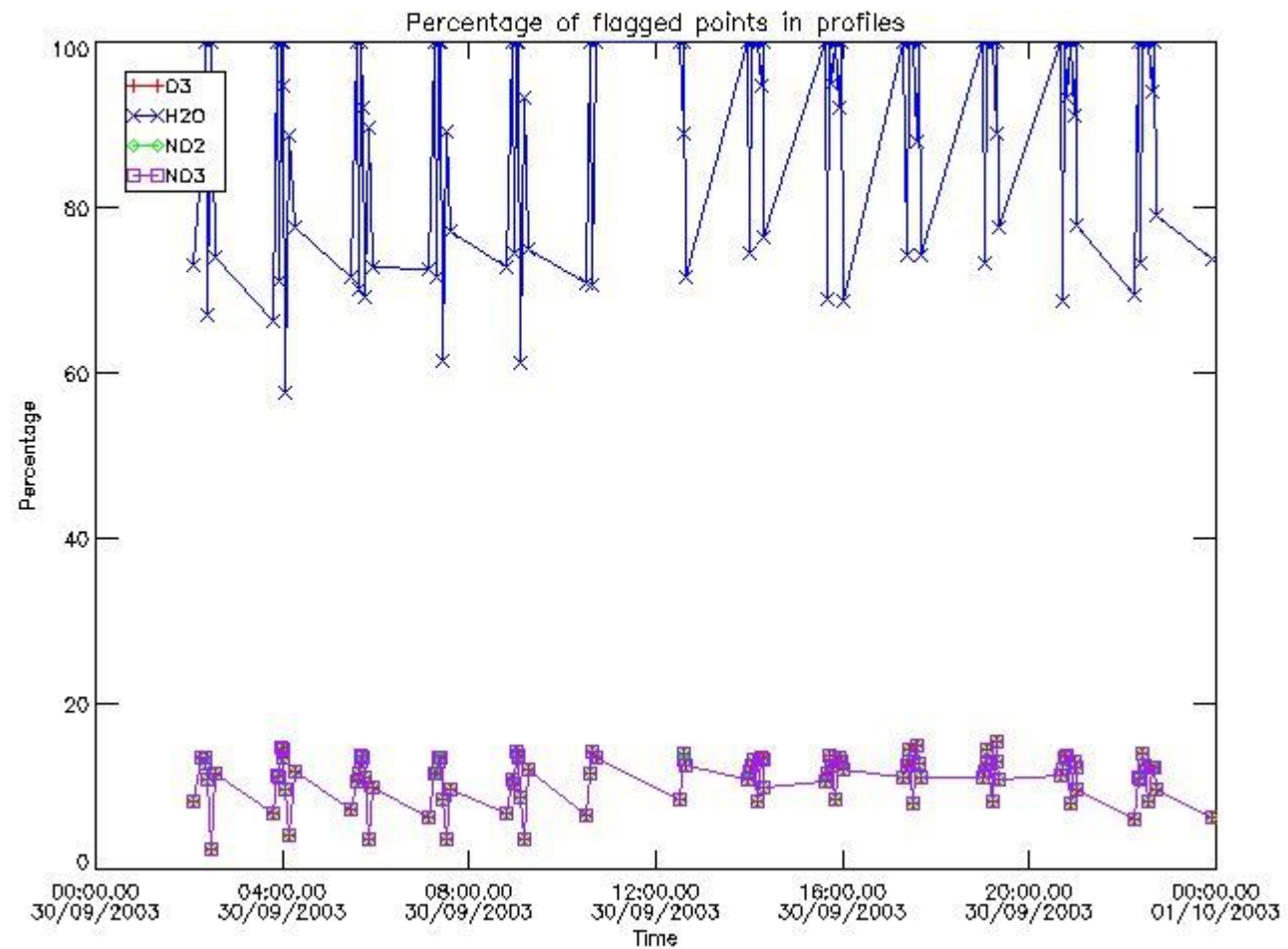
279	GOM_NL__2PRFIN20030930_200153_000000542020_00214_08284_0578.N1	30-SEP-2003 20:01:53	Bright	54.000	160	23Gam Per	2.9300	4700.0	108	8284	No
280	GOM_NL__2PRFIN20030930_200421_000000372020_00214_08284_0579.N1	30-SEP-2003 20:04:21	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	8284	No
281	GOM_NL__2PRFIN20030930_200622_000000372020_00214_08284_0580.N1	30-SEP-2003 20:06:22	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	8284	No
282	GOM_NL__2PRFIN20030930_201217_000000382020_00214_08284_0581.N1	30-SEP-2003 20:12:17	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	8284	No
283	GOM_NL__2PRFIN20030930_201347_000000372020_00214_08284_0582.N1	30-SEP-2003 20:13:47	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	8284	No
284	GOM_NL__2PRFIN20030930_201659_000000352020_00214_08284_0583.N1	30-SEP-2003 20:16:59	Bright	34.500	174	52Psi UMa	3.0040	4400.0	69	8284	No
285	GOM_NL__2PRFIN20030930_201931_000000822020_00214_08284_0584.N1	30-SEP-2003 20:19:31	Bright	82.000	107	37The Aur	2.6490	11000.	164	8284	No
286	GOM_NL__2PRFIN20030930_202224_000000562020_00214_08284_0585.N1	30-SEP-2003 20:22:24	Bright	56.000	24	66Alp Gem	1.5800	10200.	112	8284	No
287	GOM_NL__2PRFIN20030930_202703_000001002020_00214_08284_0586.N1	30-SEP-2003 20:27:03	Twilight	100.00	170	27Eps Gem	3.0000	9700.0	200	8284	No
288	GOM_NL__2PRFIN20030930_203310_000000532020_00214_08284_0587.N1	30-SEP-2003 20:33:10	Twilight	52.500	48	30Alp Hya	1.9770	4100.0	105	8284	No
289	GOM_NL__2PRFIN20030930_204012_000000452020_00214_08284_0588.N1	30-SEP-2003 20:40:12	Dark	45.000	132	15Rho Pup	2.8030	6900.0	90	8284	No
290	GOM_NL__2PRFIN20030930_204251_000000422020_00214_08284_0589.N1	30-SEP-2003 20:42:51	Dark	42.000	65	Lam Vel	2.2040	4400.0	84	8284	No
291	GOM_NL__2PRFIN20030930_204533_000000382020_00214_08284_0590.N1	30-SEP-2003 20:45:33	Dark	37.500	91	Kap Vel	2.4900	26000.	75	8284	No
292	GOM_NL__2PRFIN20030930_204643_000000372020_00214_08284_0591.N1	30-SEP-2003 20:46:43	Dark	37.000	71	lot Car	2.2460	7700.0	74	8284	No
293	GOM_NL__2PRFIN20030930_205239_000000642020_00215_08285_0453.N1	30-SEP-2003 20:52:39	Dark	63.500	108	Alp Col	2.6520	15200.	127	8285	No
294	GOM_NL__2PRFIN20030930_205750_000000402020_00215_08285_0454.N1	30-SEP-2003 20:57:50	Dark	39.500	135	Bet Hyi	2.8200	5800.0	79	8285	No
295	GOM_NL__2PRFIN20030930_205955_000000422020_00215_08285_0455.N1	30-SEP-2003 20:59:55	Dark	41.500	143	Alp Hyi	2.8570	7200.0	83	8285	No
296	GOM_NL__2PRFIN20030930_210123_000000532020_00215_08285_0456.N1	30-SEP-2003 21:01:23	Dark	52.500	9	Alp Eri	0.45300	24000.	105	8285	No
297	GOM_NL__2PRFIN20030930_210256_000000552020_00215_08285_0457.N1	30-SEP-2003 21:02:56	Straylight	54.500	157	The1Eri	2.9060	9300.0	109	8285	No
298	GOM_NL__2PRFIN20030930_210649_000000442020_00215_08285_0458.N1	30-SEP-2003 21:06:49	Straylight	43.500	63	Bet Gru	2.1500	2800.0	87	8285	No
299	GOM_NL__2PRFIN20030930_211127_000000442020_00215_08285_0459.N1	30-SEP-2003 21:11:27	Straylight	44.000	18	24Alp PsA	1.1660	9700.0	88	8285	No
300	GOM_NL__2PRFIN20030930_211342_000000532020_00215_08285_0460.N1	30-SEP-2003 21:13:42	Straylight	52.500	52	16Bet Cet	2.0370	4500.0	105	8285	No
301	GOM_NL__2PRFIN20030930_212009_000000402020_00215_08285_0461.N1	30-SEP-2003 21:20:09	Bright	40.000	162	34Alp Aqr	2.9440	5350.0	80	8285	No
302	GOM_NL__2PRFIN20030930_212354_000000392020_00215_08285_0462.N1	30-SEP-2003 21:23:54	Bright	39.000	90	54Alp Peg	2.4870	11000.	78	8285	No
303	GOM_NL__2PRFIN20030930_212732_000000382020_00215_08285_0463.N1	30-SEP-2003 21:27:32	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	8285	No
304	GOM_NL__2PRFIN20030930_213010_000000622020_00215_08285_0464.N1	30-SEP-2003 21:30:10	Bright	61.500	105	6Bet Ari	2.6450	8900.0	123	8285	No
305	GOM_NL__2PRFIN20030930_213212_000000492020_00215_08285_0465.N1	30-SEP-2003 21:32:12	Bright	48.500	53	43Bet And	2.0480	3300.0	97	8285	No
306	GOM_NL__2PRFIN20030930_213659_000000402020_00215_08285_0466.N1	30-SEP-2003 21:36:59	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	8285	No
307	GOM_NL__2PRFIN20030930_213822_000000432020_00215_08285_0467.N1	30-SEP-2003 21:38:22	Bright	43.000	76	27Gam Cas	2.3000	30000.	86	8285	No
308	GOM_NL__2PRFIN20030930_214226_000000552020_00215_08285_0468.N1	30-SEP-2003 21:42:26	Bright	54.500	160	23Gam Per	2.9300	4700.0	109	8285	No
309	GOM_NL__2PRFIN20030930_214455_000000402020_00215_08285_0469.N1	30-SEP-2003 21:44:55	Bright	40.000	49	1Alp UMi	1.9900	6300.0	80	8285	No
310	GOM_NL__2PRFIN20030930_214656_000000352020_00215_08285_0470.N1	30-SEP-2003 21:46:56	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	8285	No
311	GOM_NL__2PRFIN20030930_215249_000000402020_00215_08285_0471.N1	30-SEP-2003 21:52:49	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	8285	No
312	GOM_NL__2PRFIN20030930_215419_000000402020_00215_08285_0472.N1	30-SEP-2003 21:54:19	Bright	40.000	82	48Bet UMa	2.3650	10600.	80	8285	No
313	GOM_NL__2PRFIN20030930_215733_000000372020_00215_08285_0473.N1	30-SEP-2003 21:57:33	Bright	37.000	174	52Psi UMa	3.0040	4400.0	74	8285	No
314	GOM_NL__2PRFIN20030930_220006_000000922020_00215_08285_0474.N1	30-SEP-2003 22:00:06	Bright	91.500	107	37The Aur	2.6490	11000.	183	8285	No
315	GOM_NL__2PRFIN20030930_220300_000000592020_00215_08285_0475.N1	30-SEP-2003 22:03:00	Bright	59.000	24	66Alp Gem	1.5800	10200.	118	8285	No
316	GOM_NL__2PRFIN20030930_220738_000001022020_00215_08285_0476.N1	30-SEP-2003 22:07:38	Twilight	102.00	170	27Eps Gem	3.0000	9700.0	204	8285	No
317	GOM_NL__2PRFIN20030930_221344_000000842020_00215_08285_0477.N1	30-SEP-2003 22:13:44	Dark	84.000	8	10Alp CMi	0.40000	6500.0	168	8285	No
318	GOM_NL__2PRFIN20030930_222047_000000502020_00215_08285_0478.N1	30-SEP-2003 22:20:47	Dark	50.000	132	15Rho Pup	2.8030	6900.0	100	8285	No
319	GOM_NL__2PRFIN20030930_222325_000000472020_00215_08285_0479.N1	30-SEP-2003 22:23:25	Dark	47.000	65	Lam Vel	2.2040	4400.0	94	8285	No
320	GOM_NL__2PRFIN20030930_222607_000000402020_00215_08285_0480.N1	30-SEP-2003 22:26:07	Dark	40.000	91	Kap Vel	2.4900	26000.	80	8285	No
321	GOM_NL__2PRFIN20030930_222717_000000412020_00215_08285_0481.N1	30-SEP-2003 22:27:17	Dark	41.000	71	lot Car	2.2460	7700.0	82	8285	No
322	GOM_NL__2PRFIN20030930_223316_000000632020_00216_08286_0454.N1	30-SEP-2003 22:33:16	Dark	62.500	108	Alp Col	2.6520	15200.	125	8286	No
323	GOM_NL__2PRFIN20030930_223826_000000422020_00216_08286_0455.N1	30-SEP-2003 22:38:26	Dark	41.500	135	Bet Hyi	2.8200	5800.0	83	8286	No
324	GOM_NL__2PRFIN20030930_224032_000000422020_00216_08286_0456.N1	30-SEP-2003 22:40:32	Dark	41.500	143	Alp Hyi	2.8570	7200.0	83	8286	No
325	GOM_NL__2PRFIN20030930_224200_000000532020_00216_08286_0457.N1	30-SEP-2003 22:42:00	Dark	53.000	9	Alp Eri	0.45300	24000.	106	8286	No
326	GOM_NL__2PRFIN20030930_224333_000000522020_00216_08286_0458.N1	30-SEP-2003 22:43:33	Straylight	51.500	157	The1Eri	2.9060	9300.0	103	8286	No
327	GOM_NL__2PRFIN20030930_224725_000000502020_00216_08286_0459.N1	30-SEP-2003 22:47:25	Straylight	50.000	63	Bet Gru	2.1500	2800.0	100	8286	No
328	GOM_NL__2PRFIN20030930_225203_000000422020_00216_08286_0460.N1	30-SEP-2003 22:52:03	Straylight	41.500	18	24Alp PsA	1.1660	9700.0	83	8286	No
329	GOM_NL__2PRFIN20030930_225419_000000572020_00216_08286_0461.N1	30-SEP-2003 22:54:19	Straylight	56.500	52	16Bet Cet	2.0370	4500.0	113	8286	No
330	GOM_NL__2PRFIN20030930_230046_000000392020_00216_08286_0462.N1	30-SEP-2003 23:00:46	Bright	38.500	162	34Alp Aqr	2.9440	5350.0	77	8286	No
331	GOM_NL__2PRFIN20030930_230429_000000392020_00216_08286_0463.N1	30-SEP-2003 23:04:29	Bright	39.000	90	54Alp Peg	2.4870	11000.	78	8286	No
332	GOM_NL__2PRFIN20030930_230809_000000402020_00216_08286_0464.N1	30-SEP-2003 23:08:09	Bright	39.500	93	53Bet Peg	2.5200	3100.0	79	8286	No
333	GOM_NL__2PRFIN20030930_231044_000000642020_00216_08286_0465.N1	30-SEP-2003 23:10:44	Bright	63.500	105	6Bet Ari	2.6450	8900.0	127	8286	No
334	GOM_NL__2PRFIN20030930_231248_000000512020_00216_08286_0466.N1	30-SEP-2003 23:12:48	Bright	50.500	53	43Bet And	2.0480	3300.0	101	8286	No
335	GOM_NL__2PRFIN20030930_231736_000000382020_00216_08286_0467.N1	30-SEP-2003 23:17:36	Bright	37.500	74	11Bet Cas	2.2680	6600.0	75	8286	No
336	GOM_NL__2PRFIN20030930_231858_000000412020_00216_08286_0468.N1	30-SEP-2003 23:18:58	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	8286	No
337	GOM_NL__2PRFIN20030930_232301_000000542020_00216_08286_0469.N1	30-SEP-2003 23:23:01	Bright	53.500	160	23Gam Per	2.9300	4700.0	107	8286	No

338	GOM_NL__2PRFIN20030930_232531_000000412020_00216_08286_0470.N1	30-SEP-2003 23:25:31	Bright	40.500	49	1Alp UMi	1.9900	6300.0	81	8286	No
339	GOM_NL__2PRFIN20030930_232733_000000382020_00216_08286_0471.N1	30-SEP-2003 23:27:33	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	8286	No
340	GOM_NL__2PRFIN20030930_233325_000000372020_00216_08286_0472.N1	30-SEP-2003 23:33:25	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	8286	No
341	GOM_NL__2PRFIN20030930_233457_000000362020_00216_08286_0473.N1	30-SEP-2003 23:34:57	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	8286	No
342	GOM_NL__2PRFIN20030930_233810_000000512020_00216_08286_0474.N1	30-SEP-2003 23:38:10	Bright	51.000	174	52Psi UMa	3.0040	4400.0	102	8286	No
343	GOM_NL__2PRFIN20030930_234041_000000862020_00216_08286_0475.N1	30-SEP-2003 23:40:41	Bright	85.500	107	37The Aur	2.6490	11000.	171	8286	No
344	GOM_NL__2PRFIN20030930_234335_000000582020_00216_08286_0476.N1	30-SEP-2003 23:43:35	Bright	57.500	24	66Alp Gem	1.5800	10200.	115	8286	No
345	GOM_NL__2PRFIN20030930_234815_000000982020_00216_08286_0477.N1	30-SEP-2003 23:48:15	Twilight_stray	97.500	170	27Eps Gem	3.0000	9700.0	195	8286	No
346	GOM_NL__2PRFIN20030930_235421_000000822020_00216_08286_0478.N1	30-SEP-2003 23:54:21	Dark	82.000	8	10Alp CMi	0.40000	6500.0	164	8286	No

### 3. Quality information per product

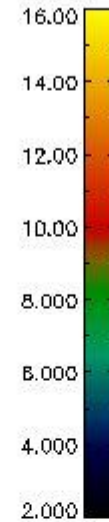
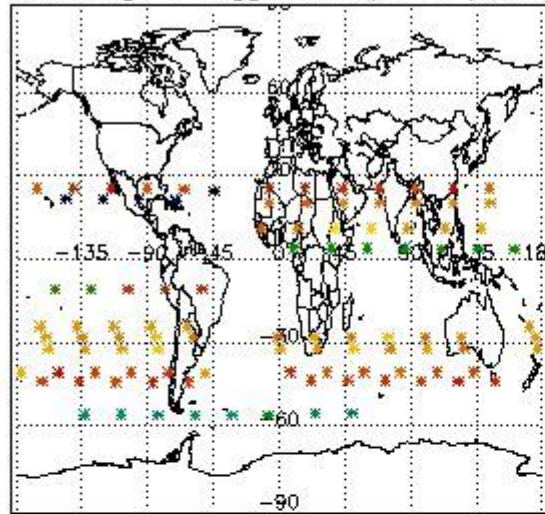
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

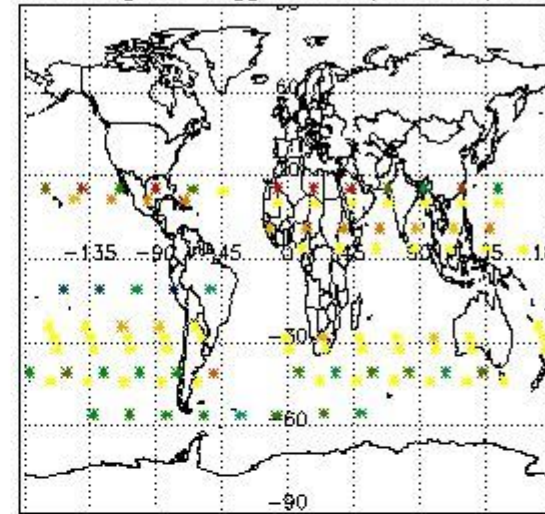


#### 3.2 Plot quality information per product (world map)

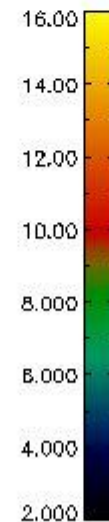
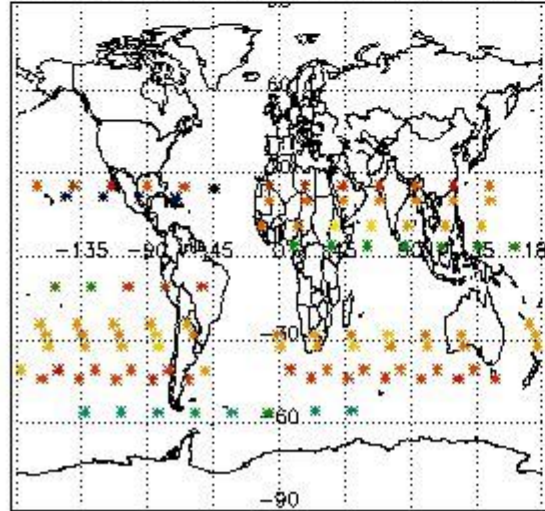
Percentage of flagged data per O3 profile



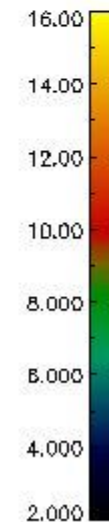
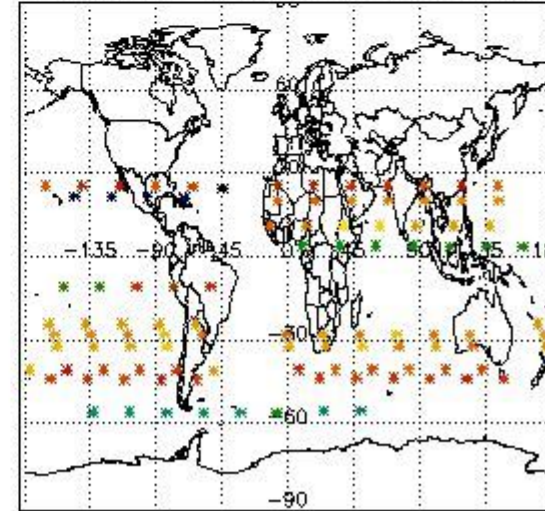
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

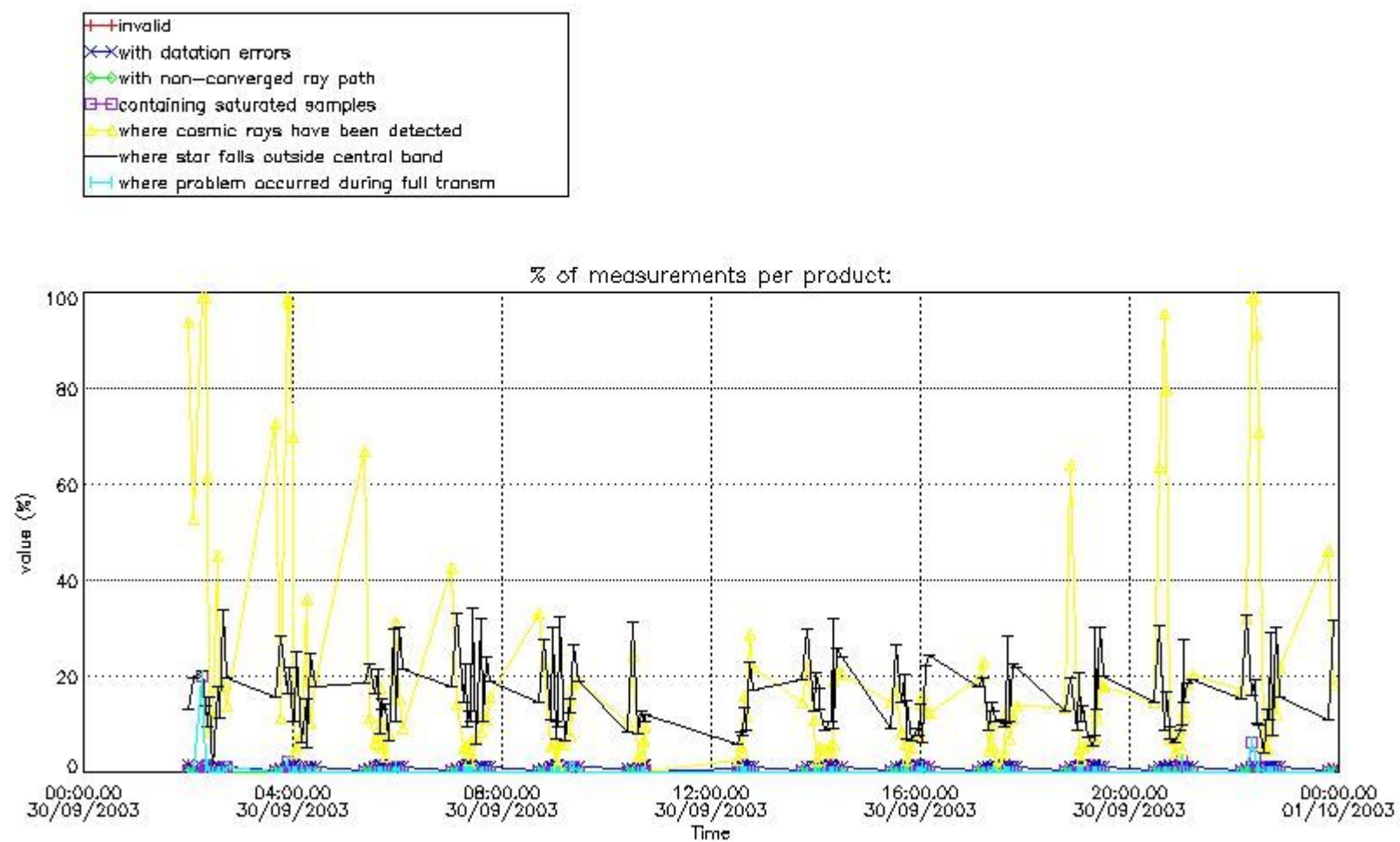


#### 4. Level 1 quality information per product

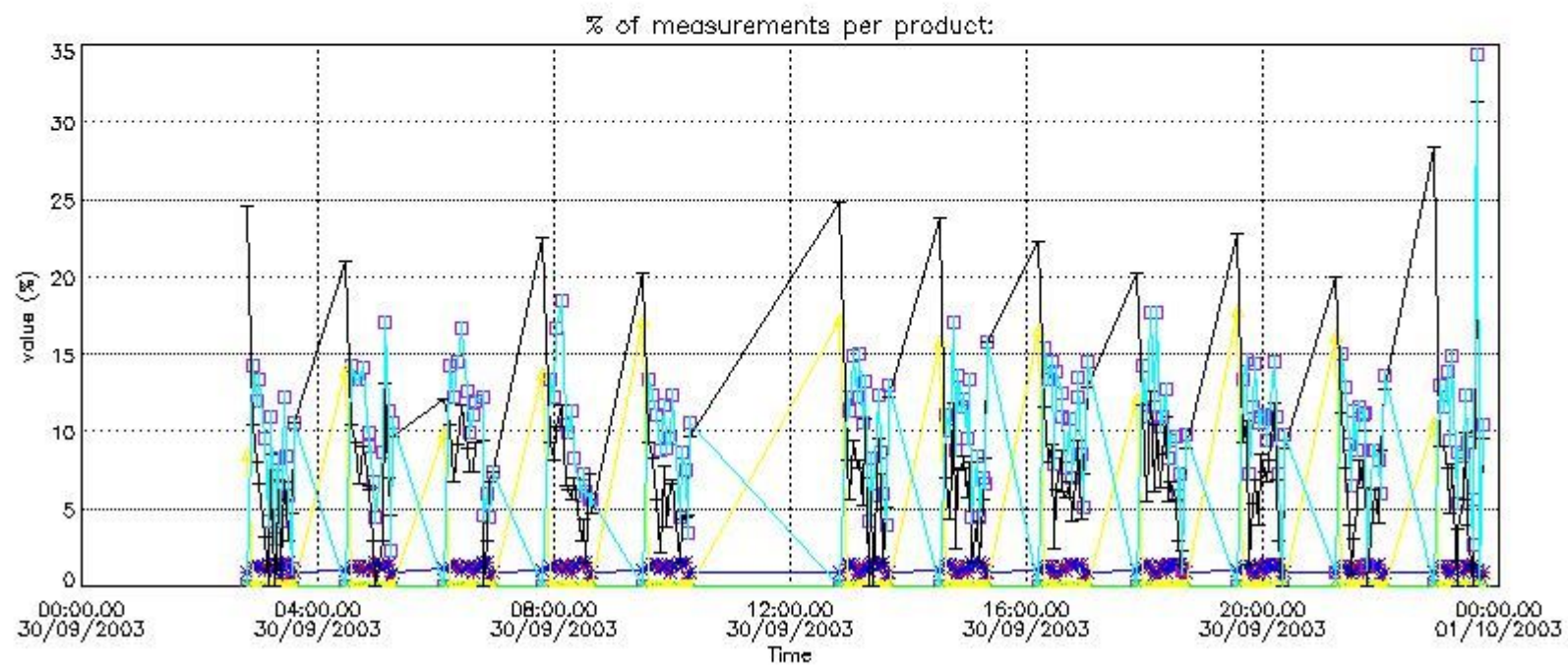
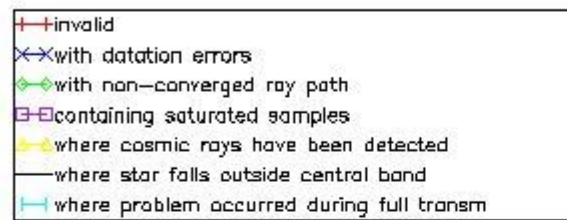
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



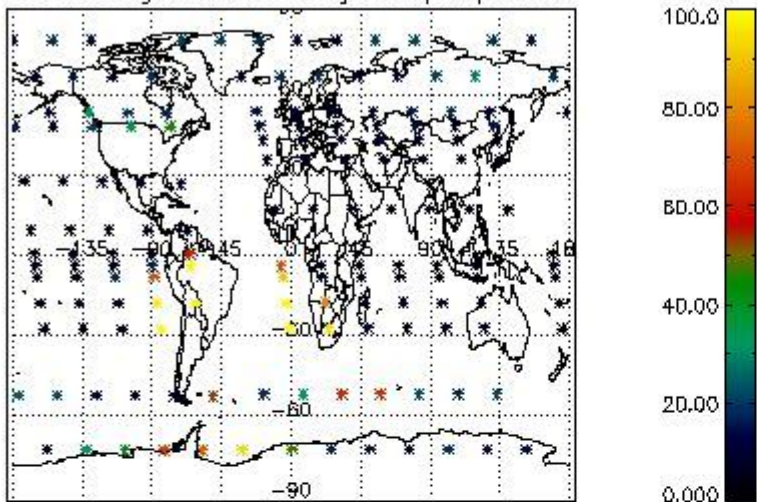
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



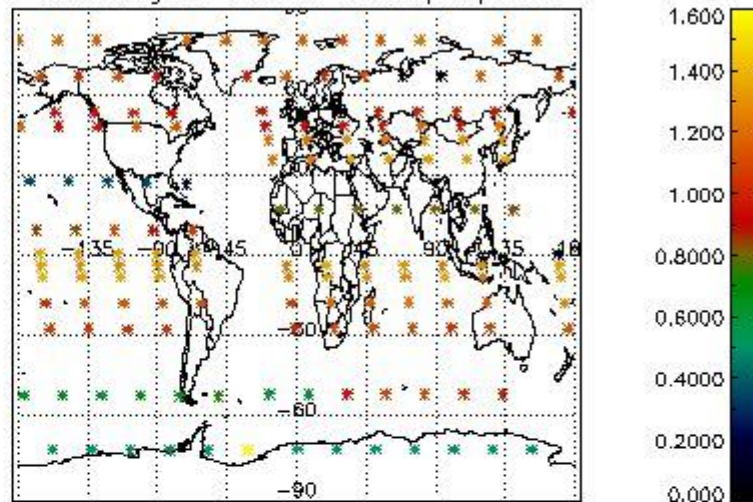
*4.2 Plot quality information per product coming from level 1b processing (world map)*

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

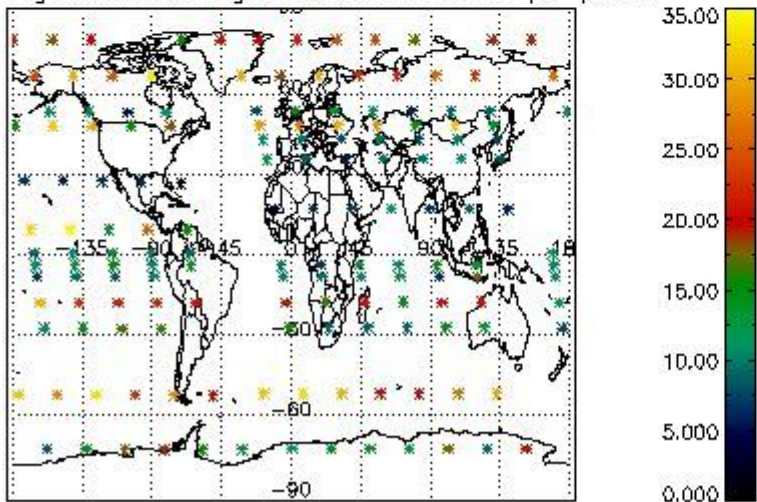
Percentage of cosmic ray hits per profile



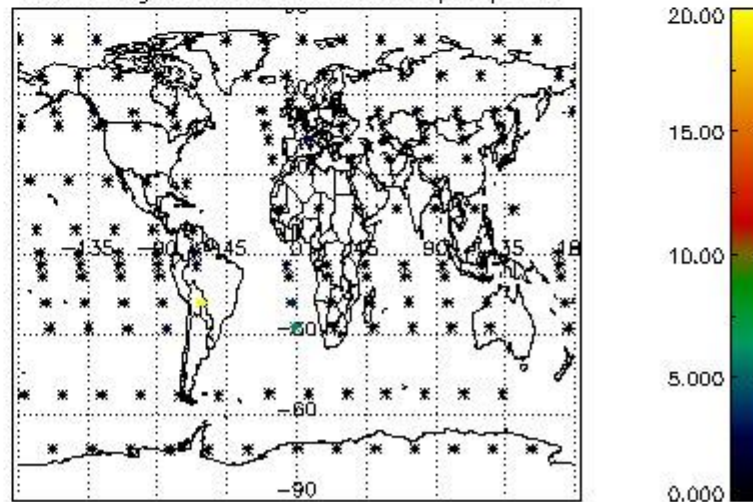
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

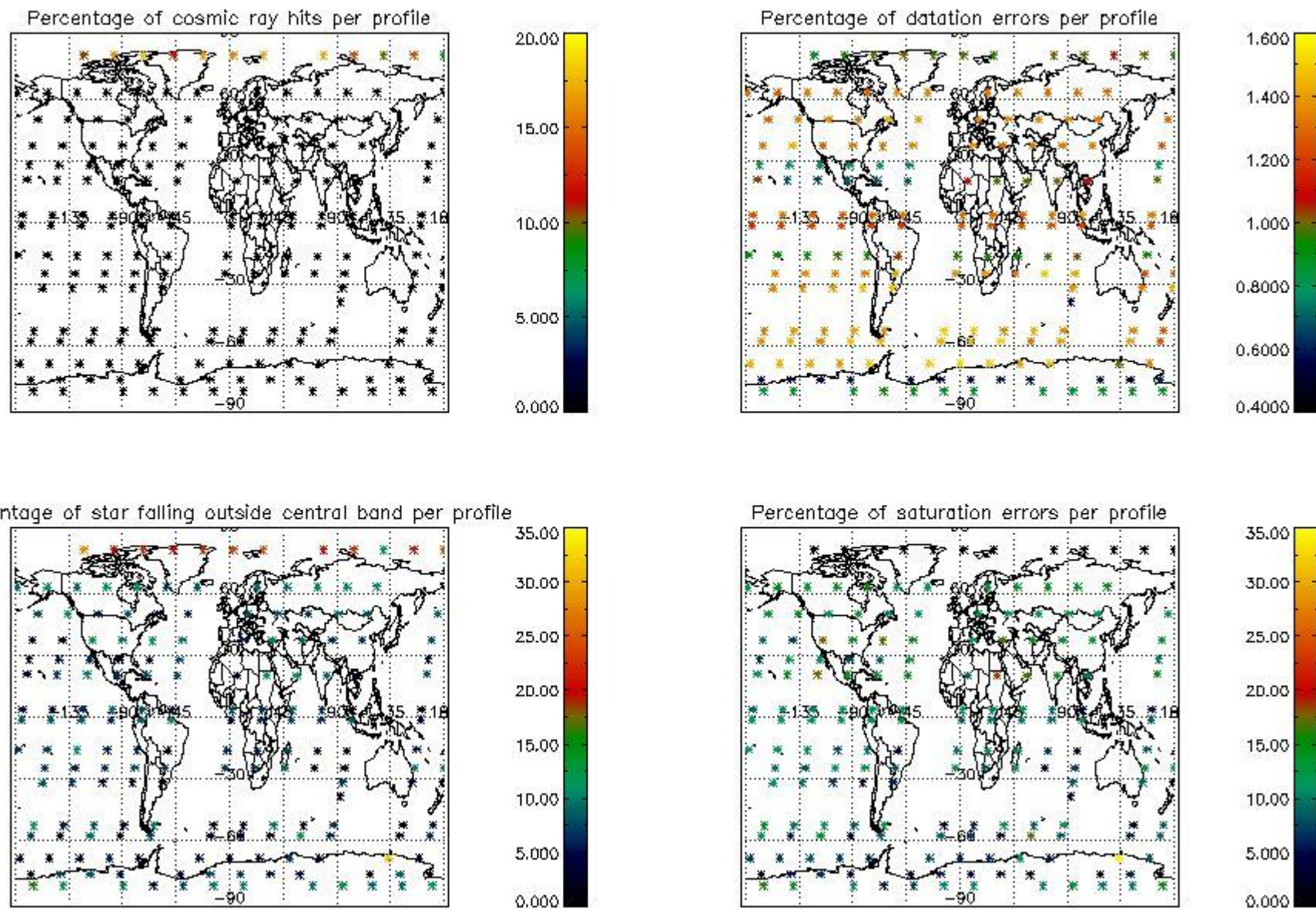


Percentage of saturation errors per profile



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

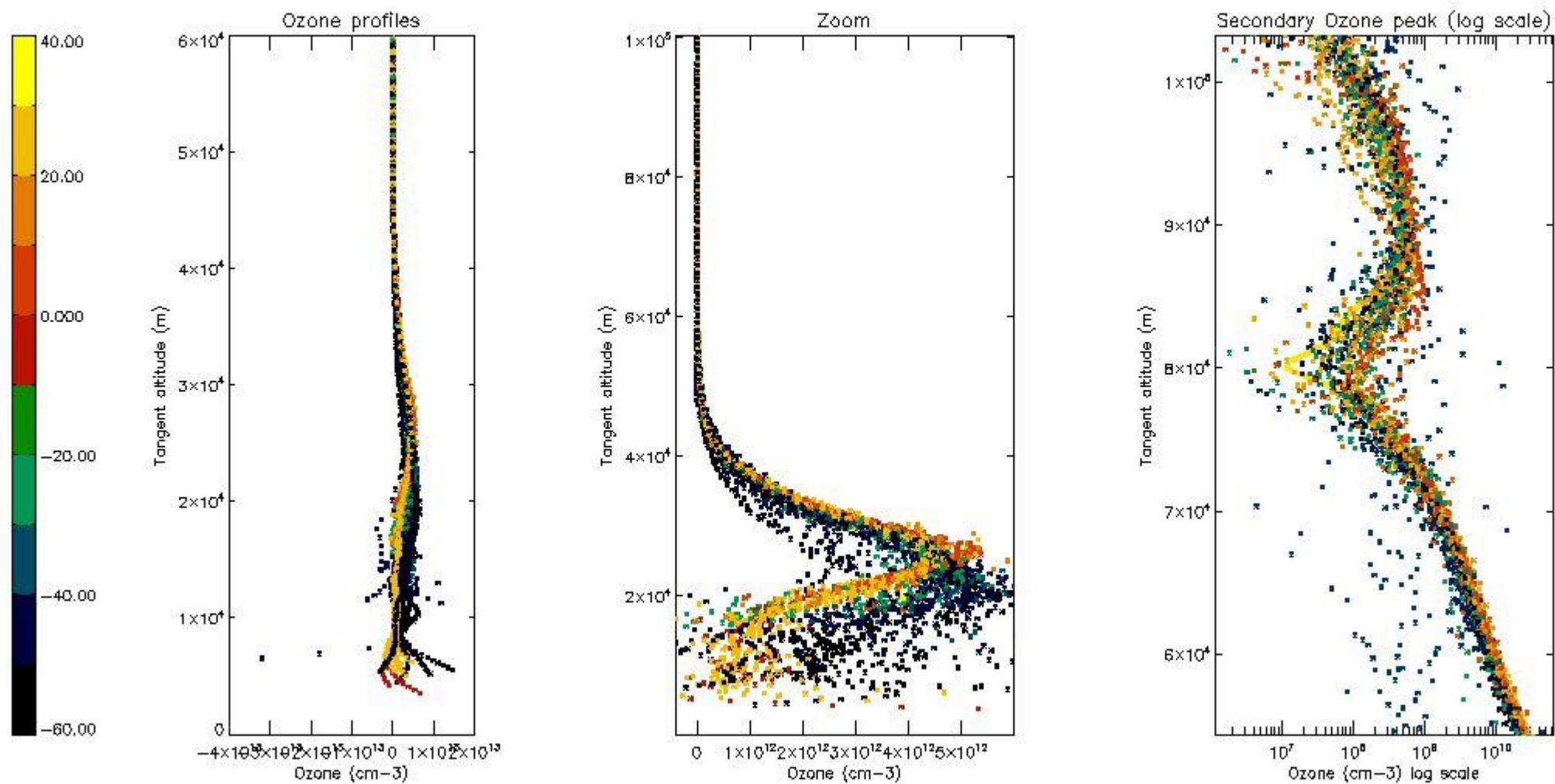
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	32
STD < 20	19

STD < 10	16
STD < 5	10

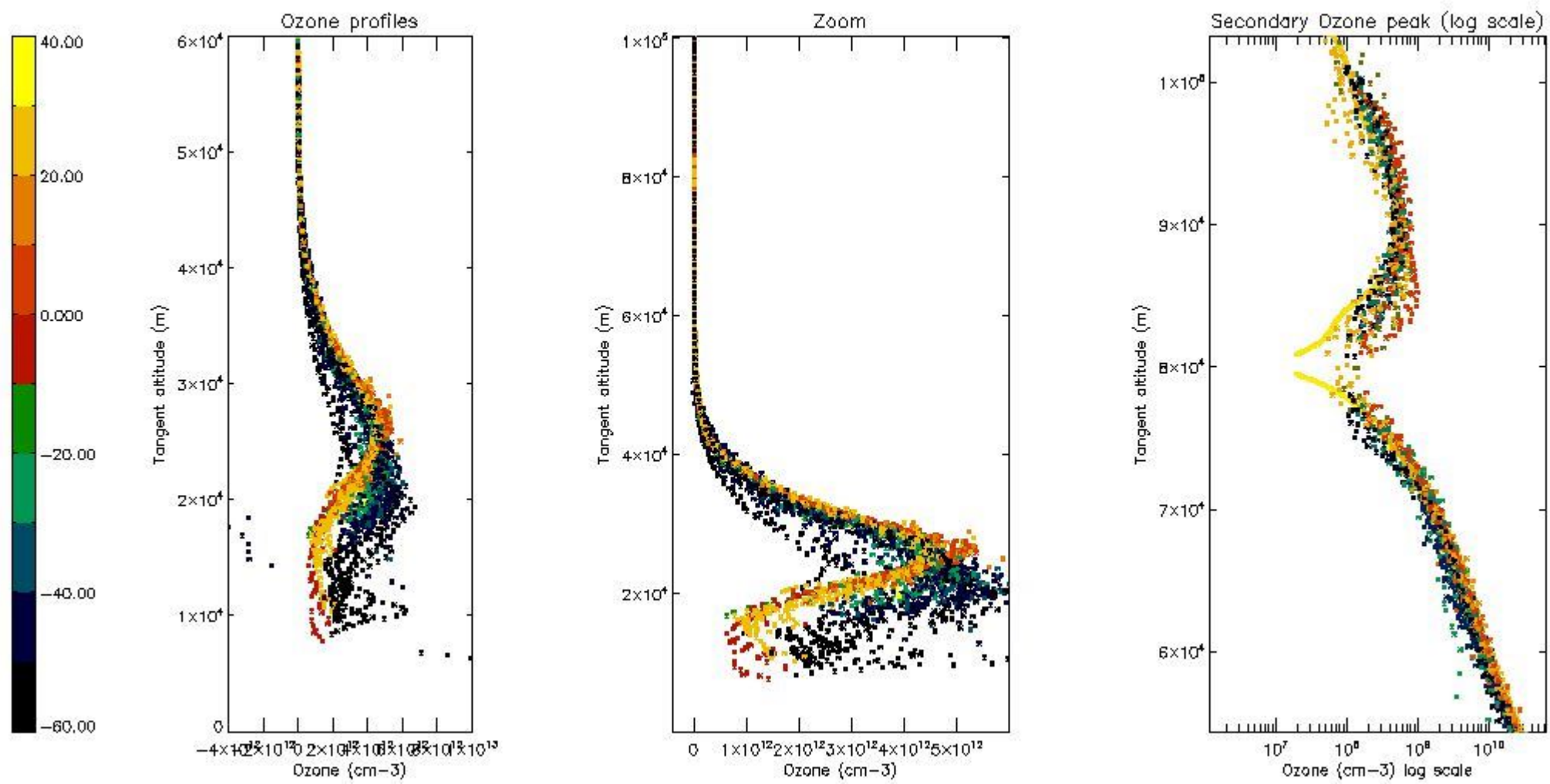
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



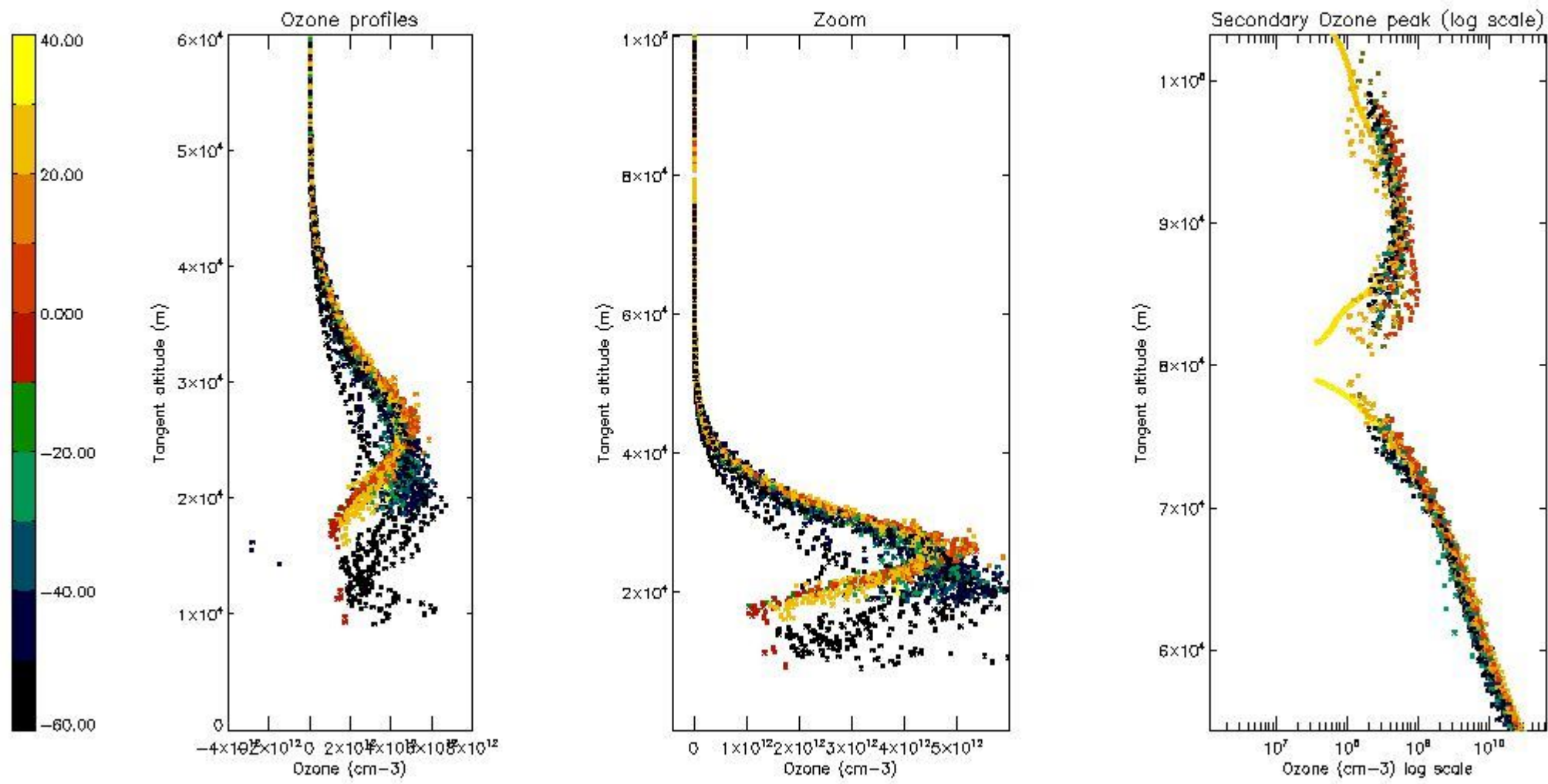
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



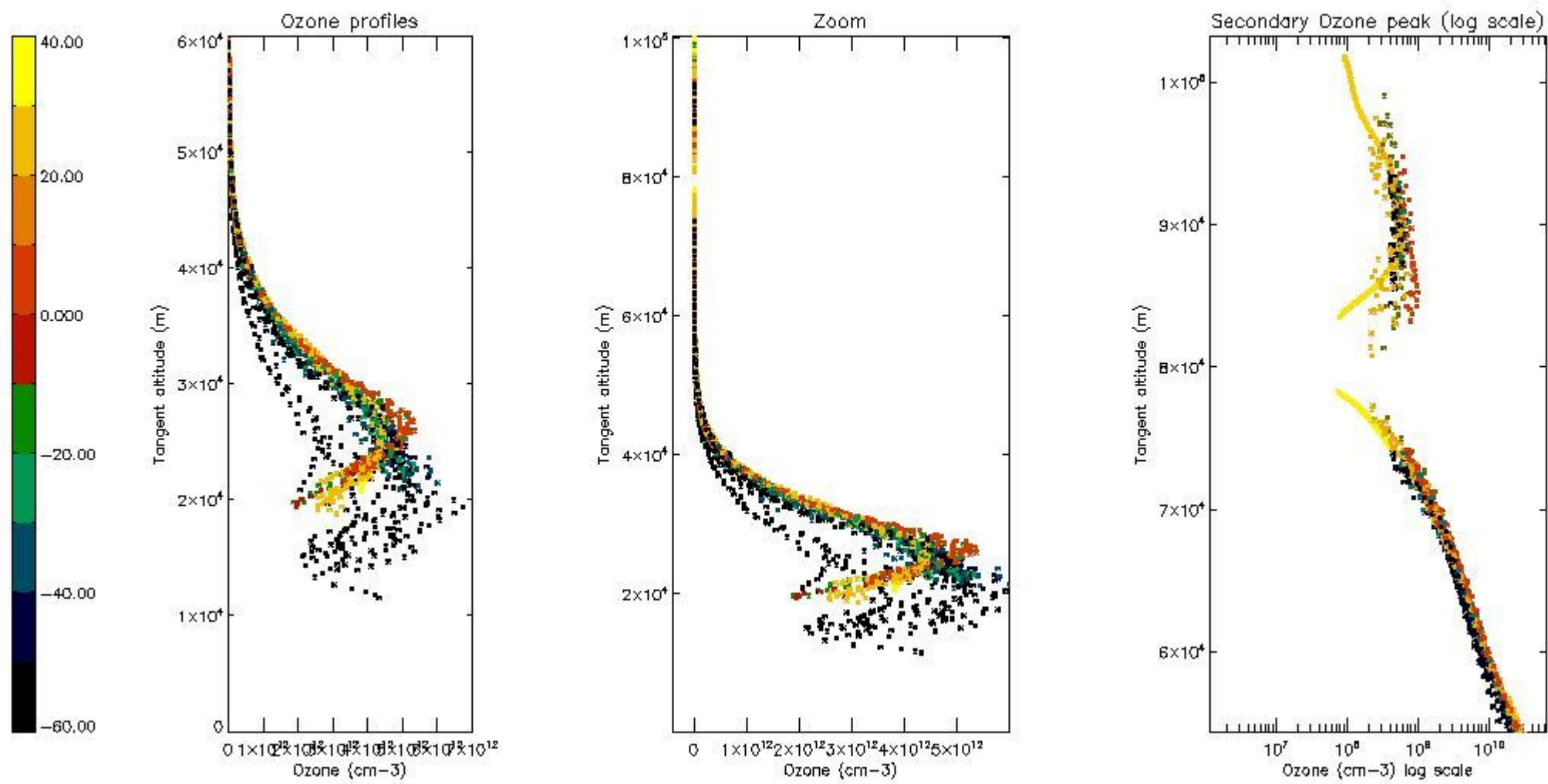
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



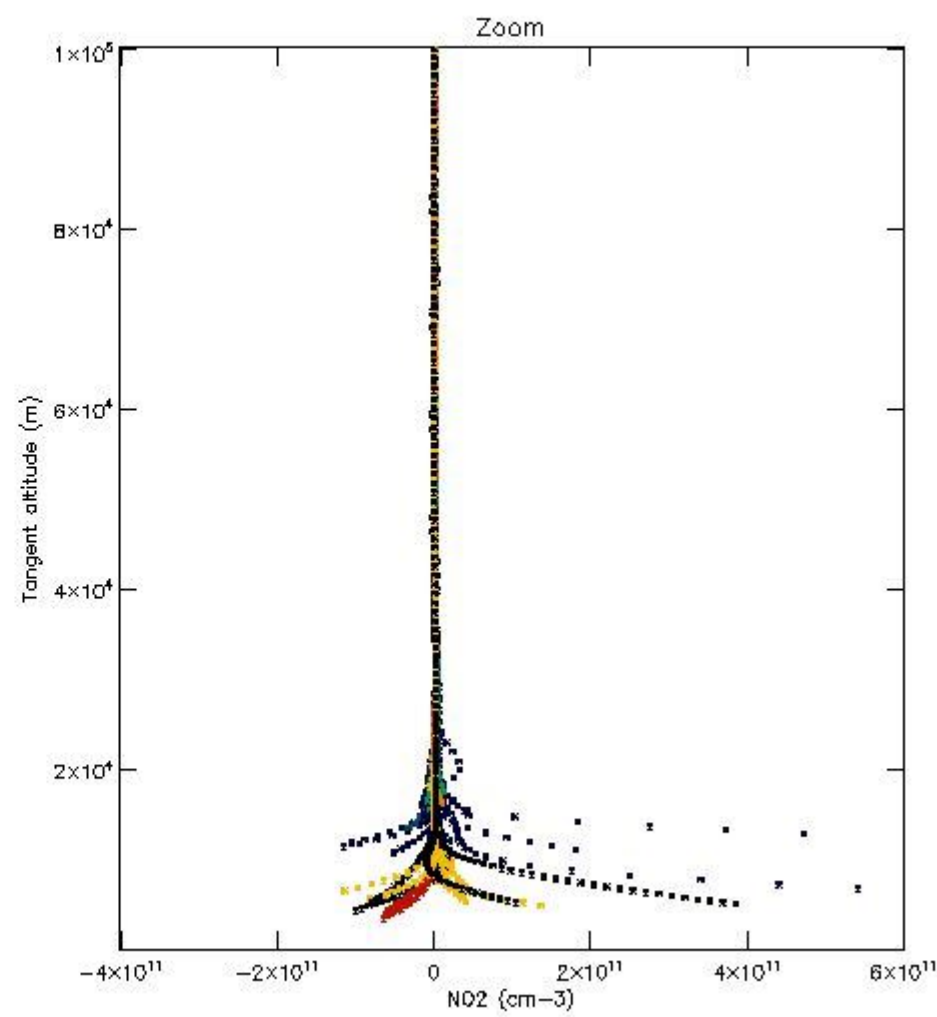
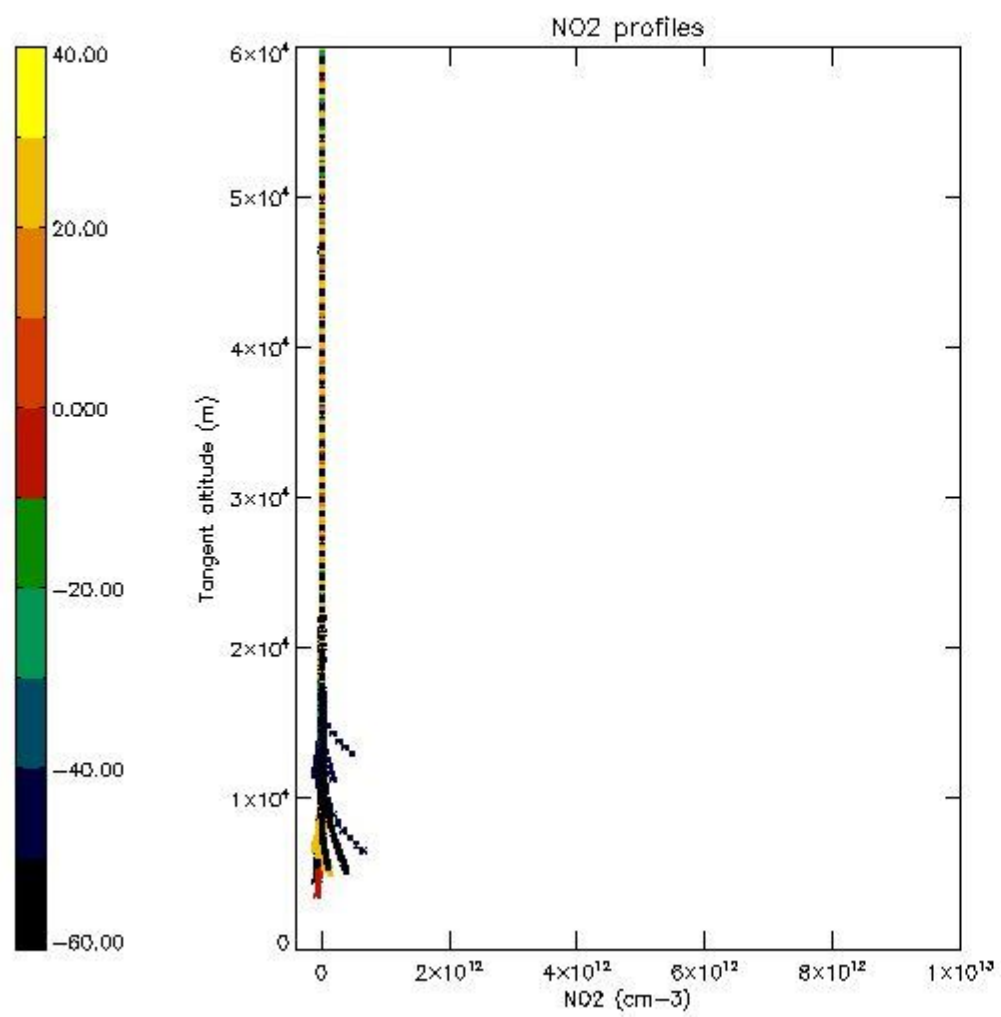
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



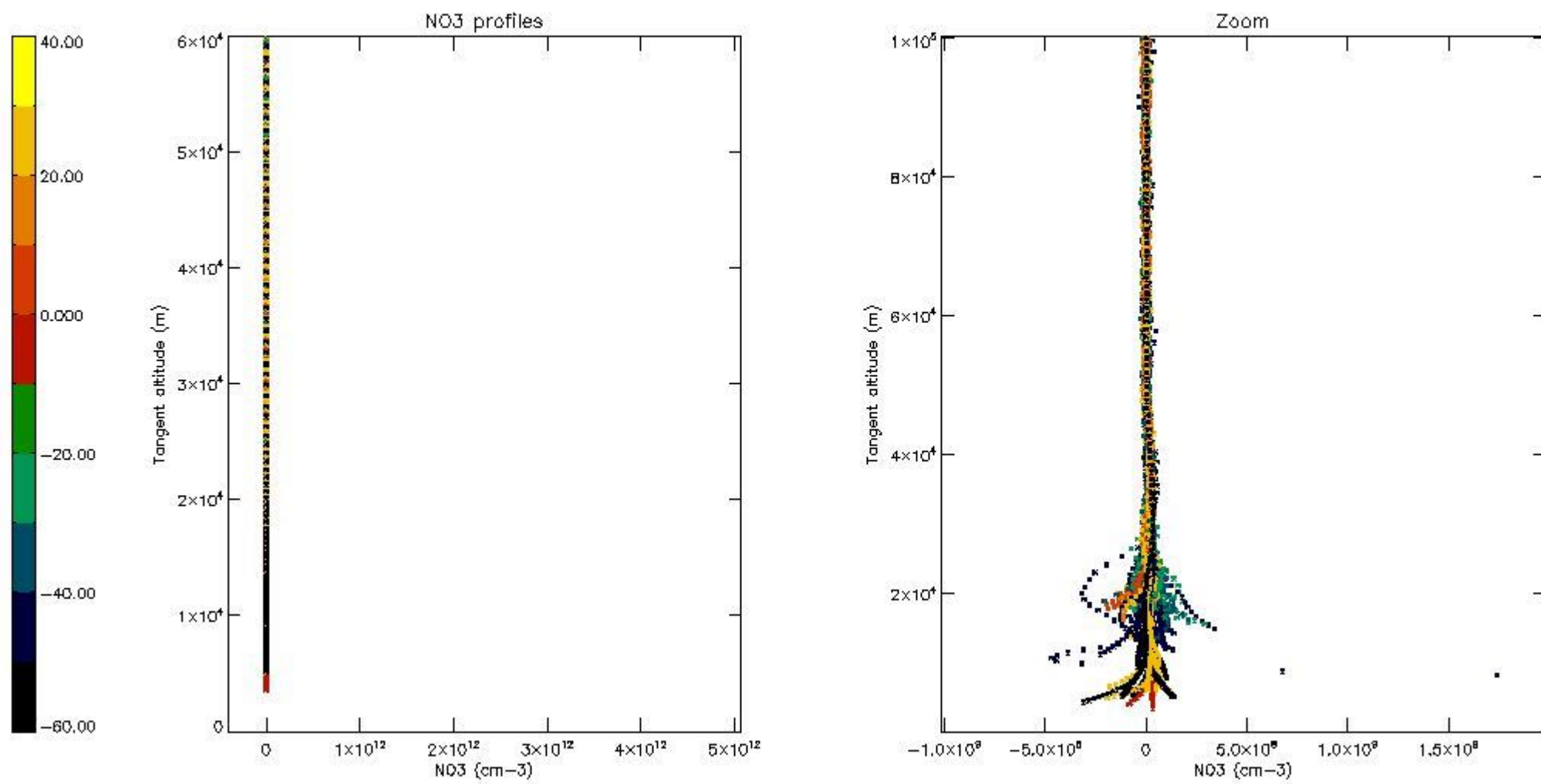
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



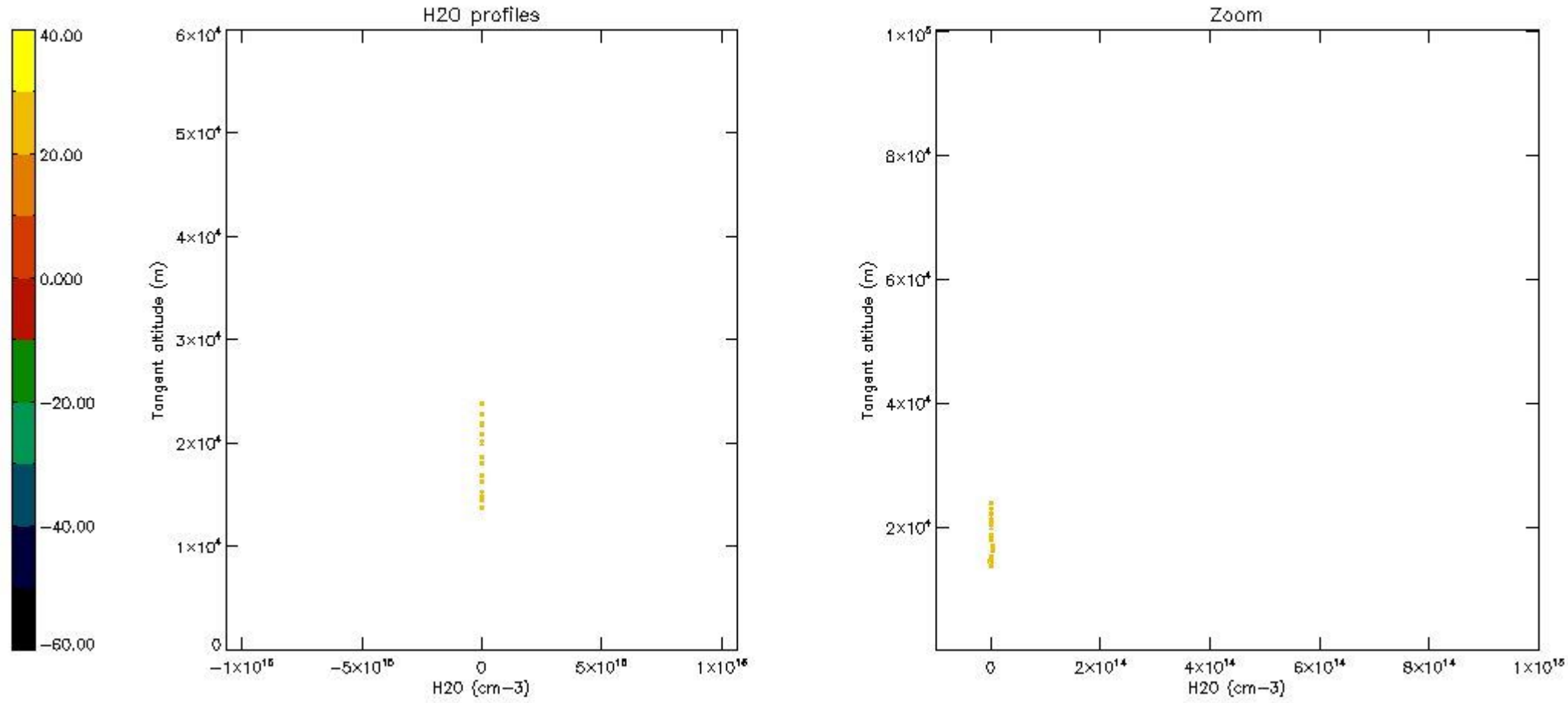
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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.

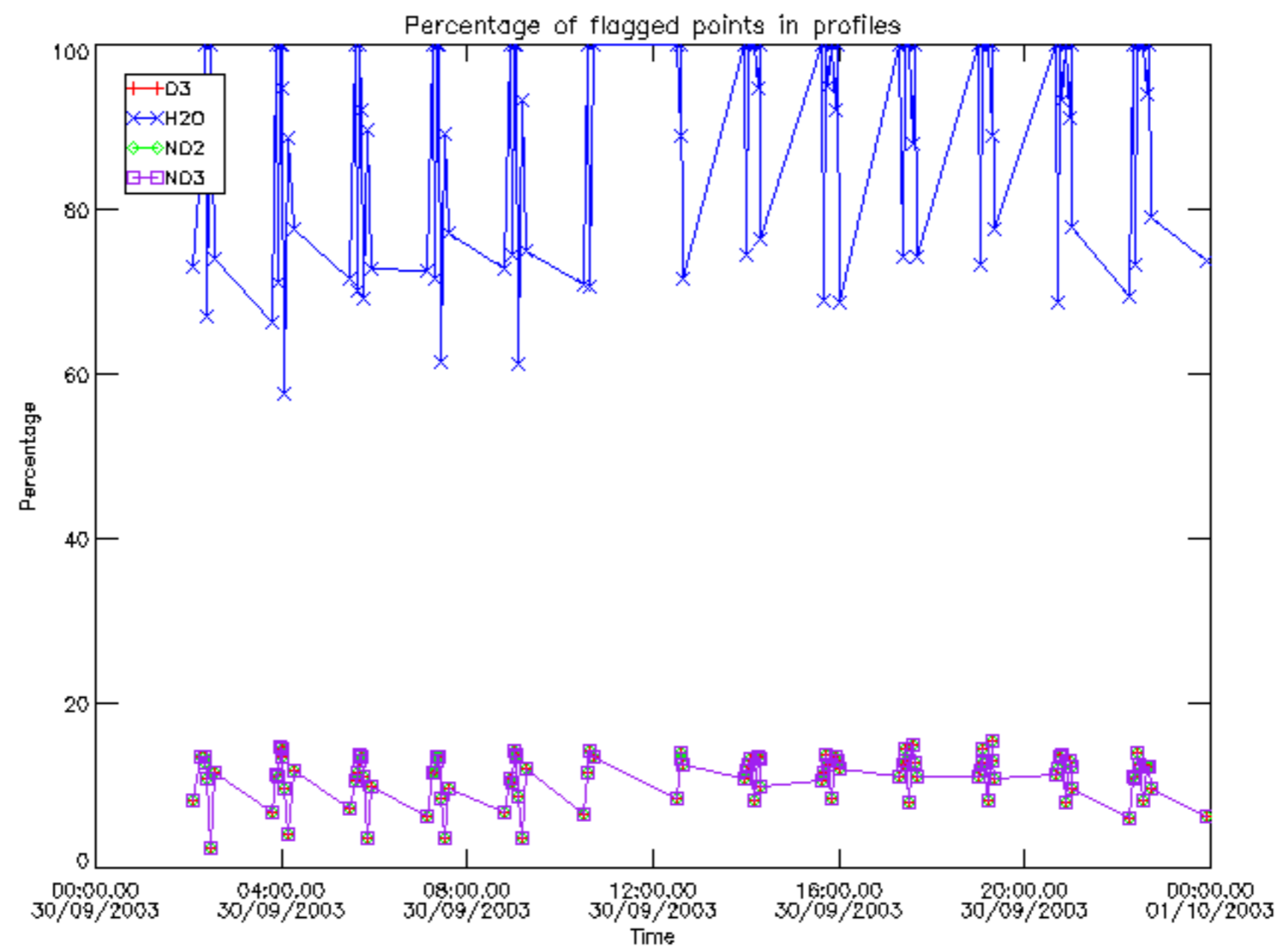


## 6. Auxiliary Data Files used for the production reported in section 2

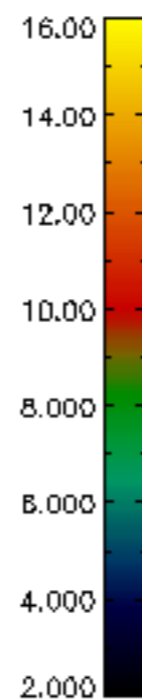
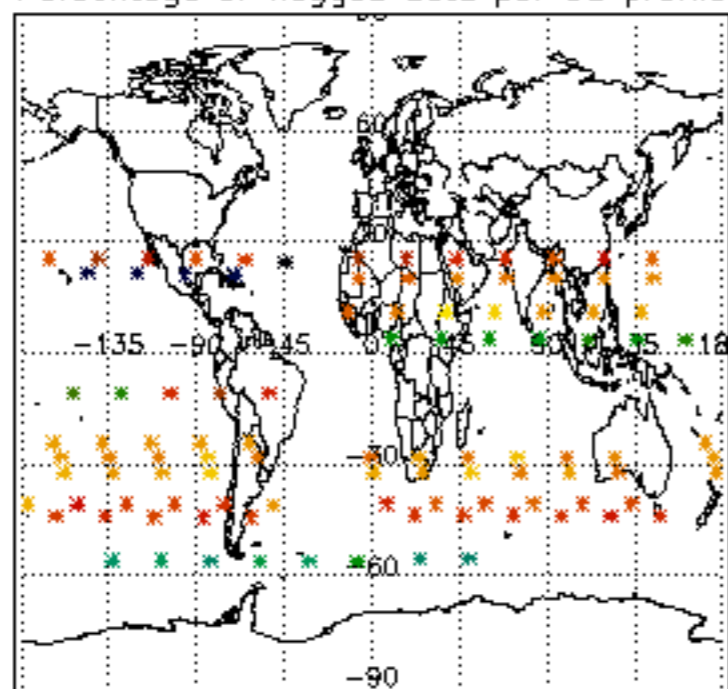
The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	30-SEP-2003 02:00:18
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	30-SEP-2003 02:00:18
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	30-SEP-2003 02:00:18

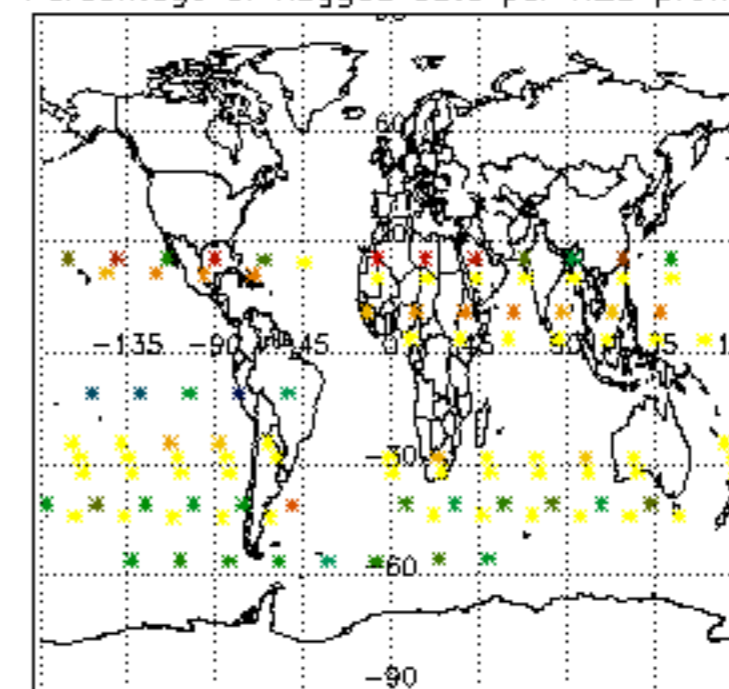




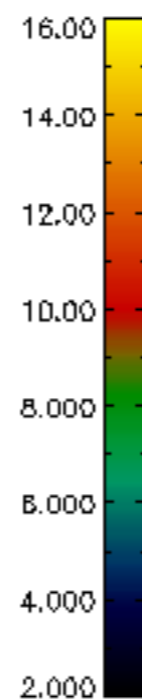
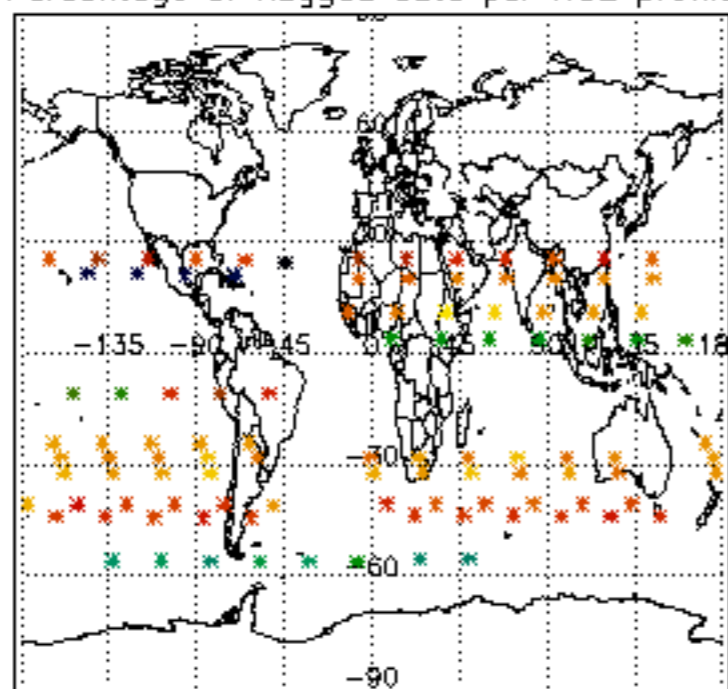
Percentage of flagged data per D3 profile



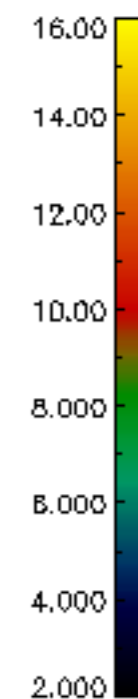
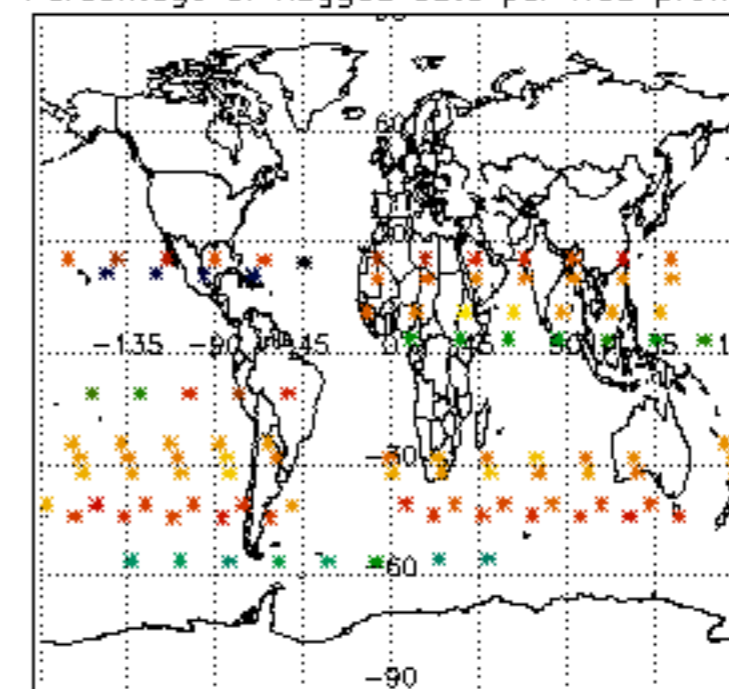
Percentage of flagged data per H2O profile

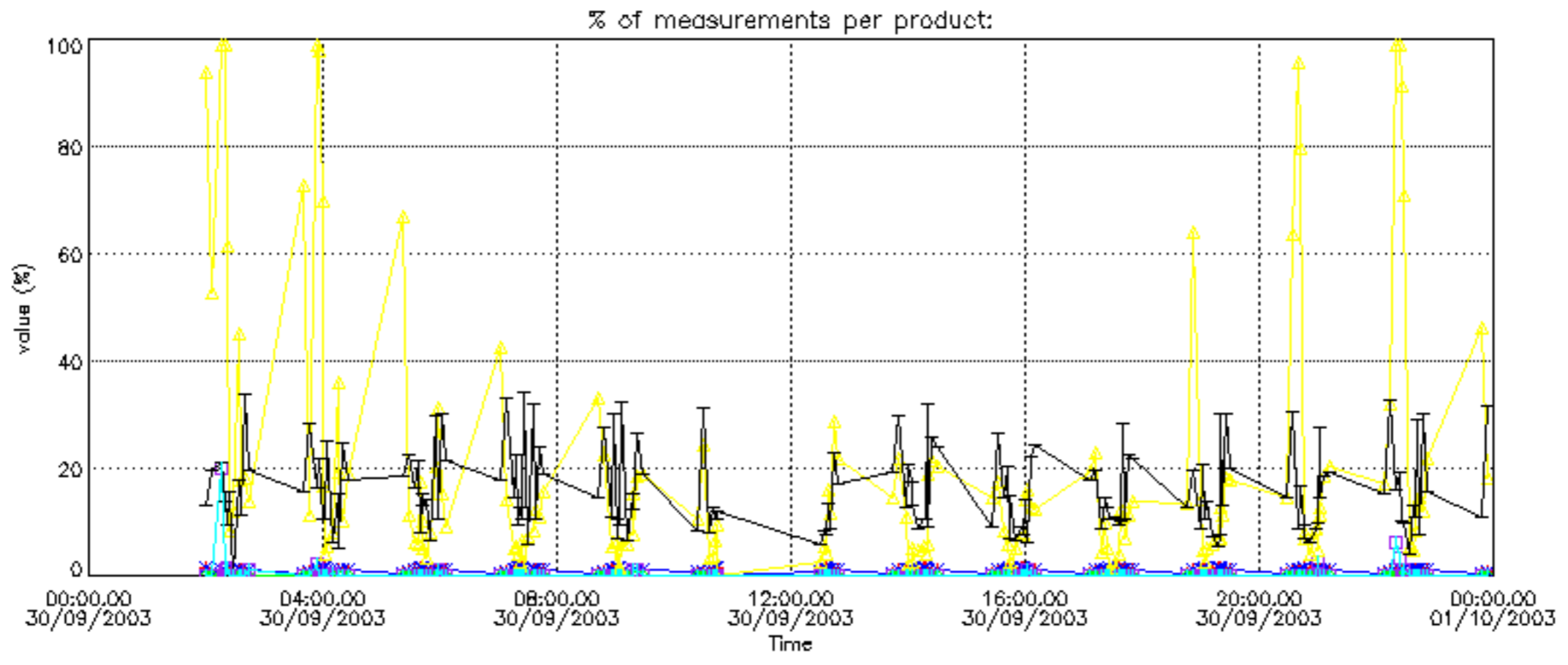


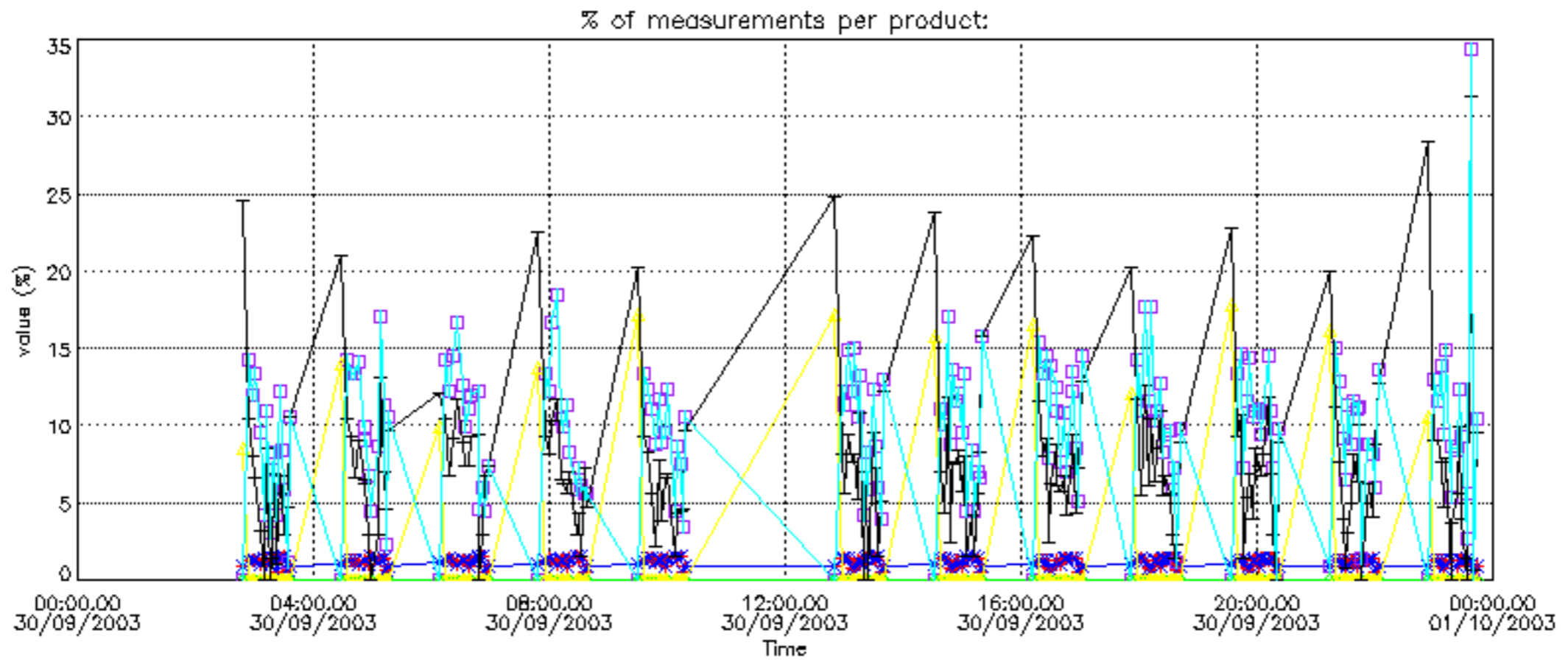
Percentage of flagged data per NO2 profile



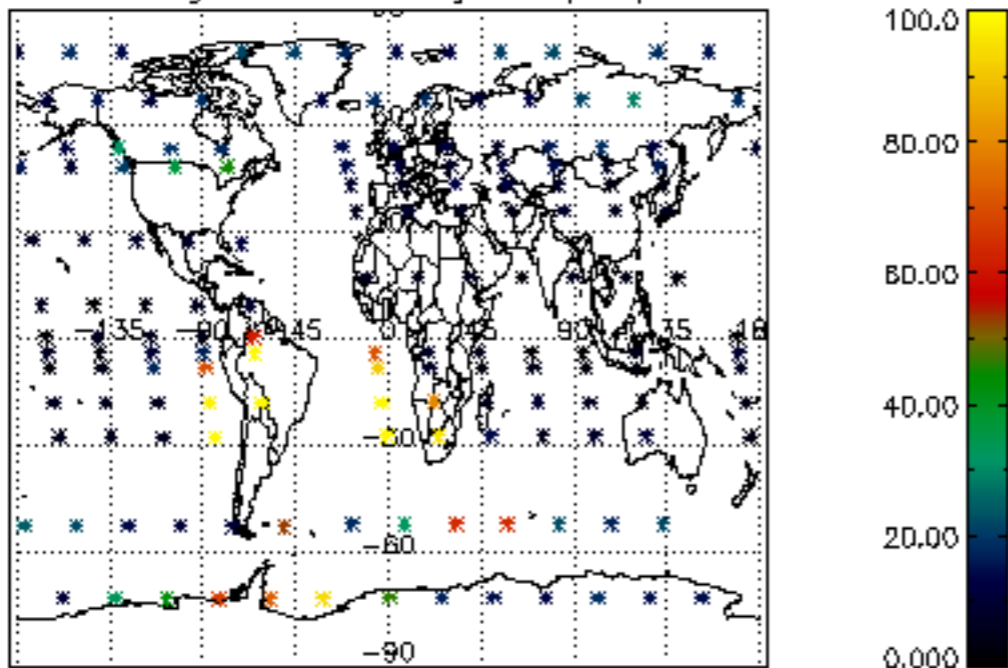
Percentage of flagged data per NO3 profile



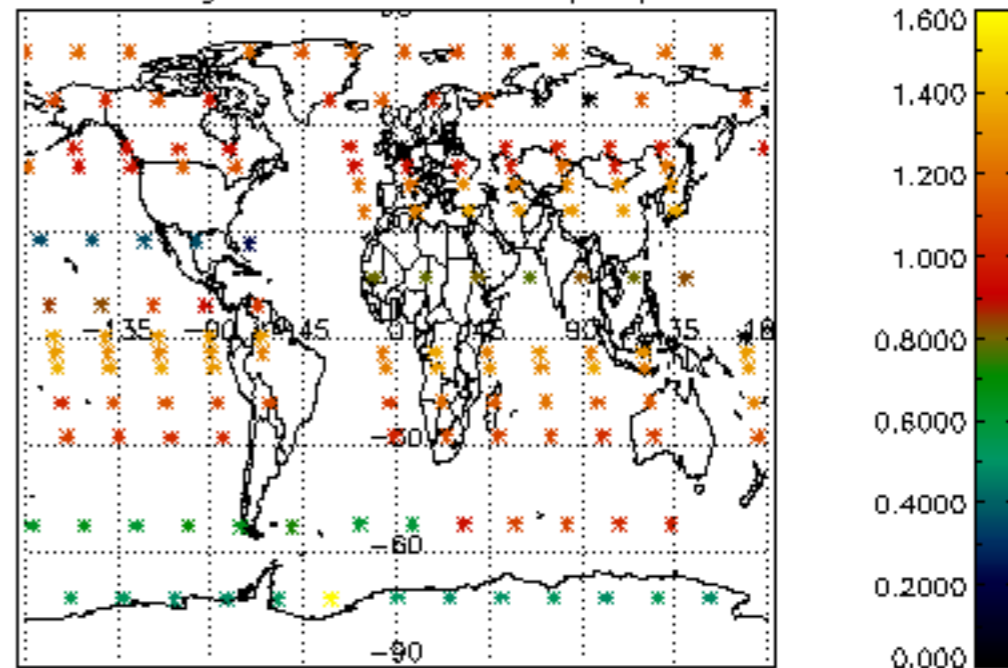




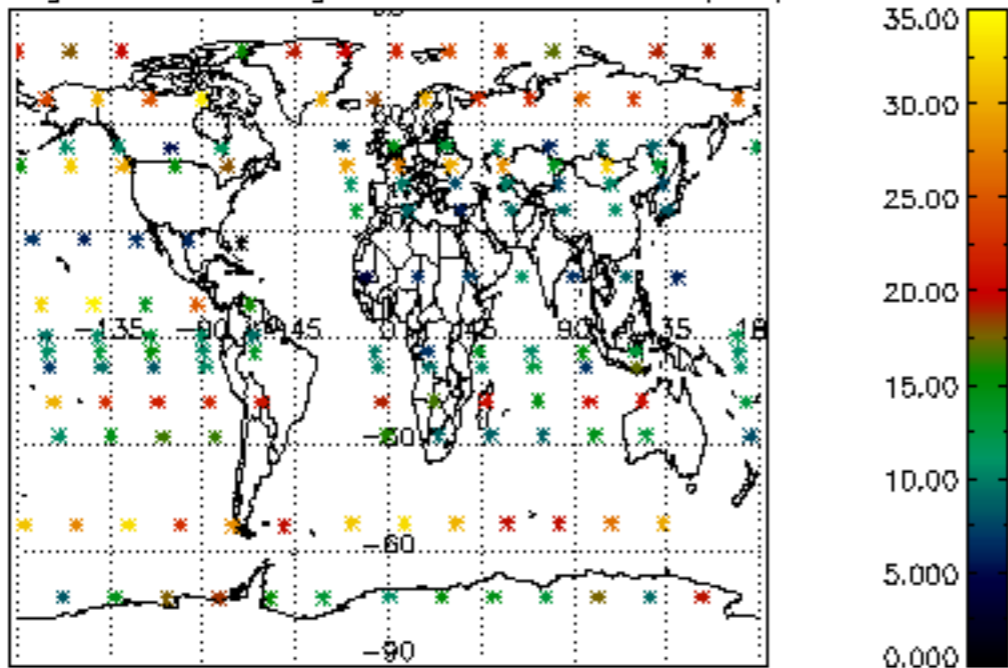
Percentage of cosmic ray hits per profile



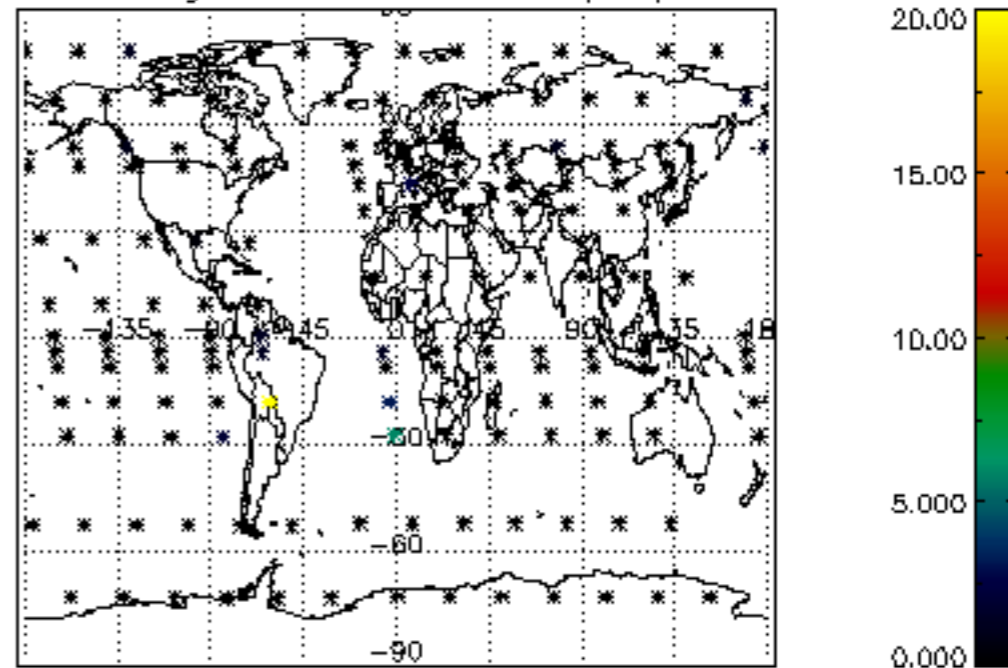
Percentage of datation errors per profile



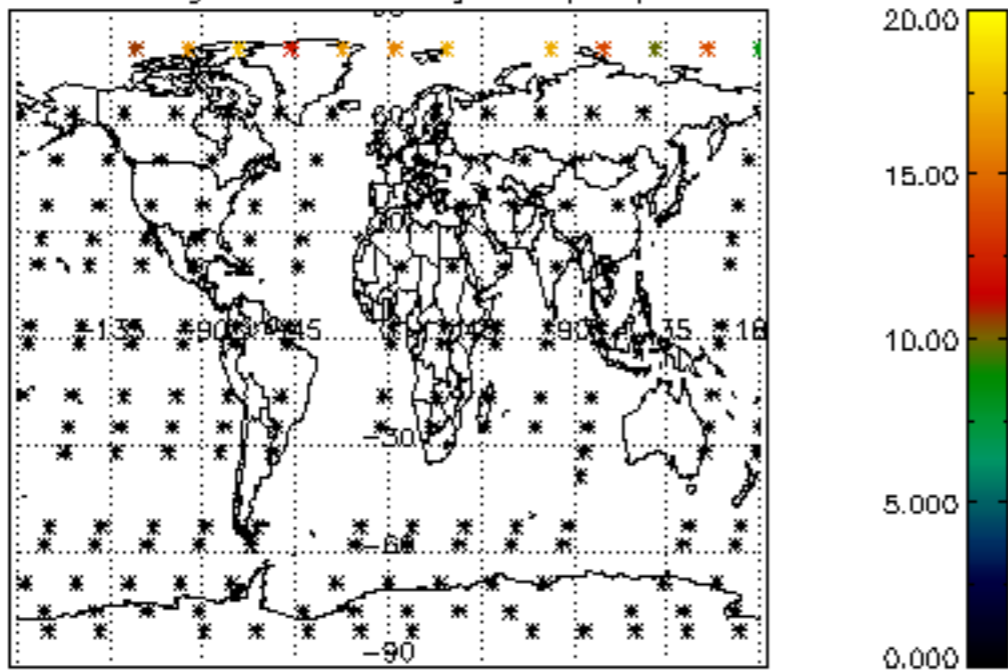
Percentage of star falling outside central band per profile



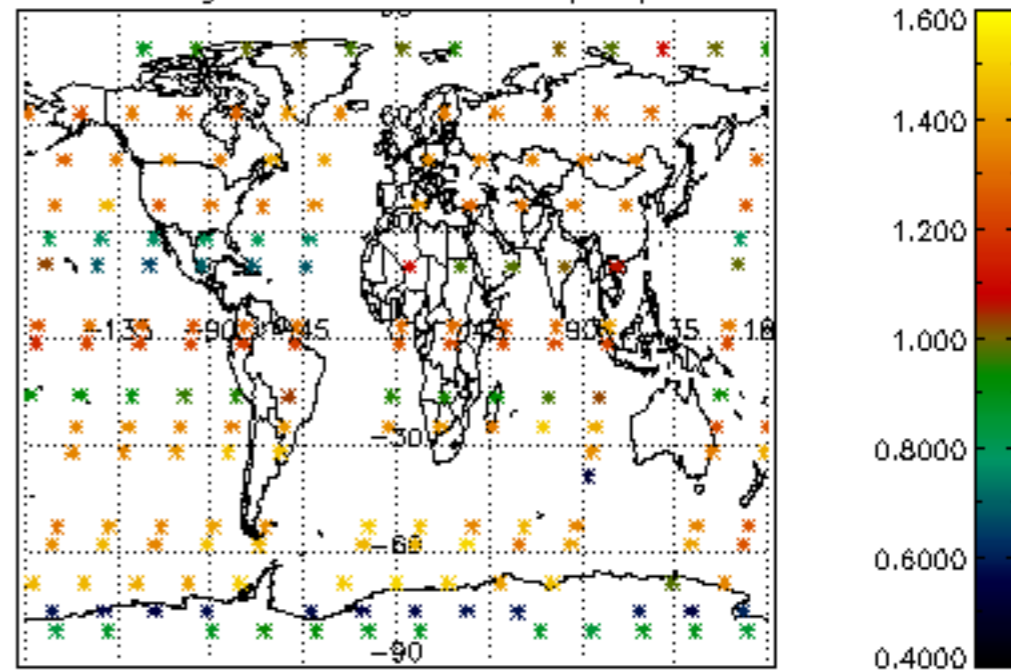
Percentage of saturation errors per profile



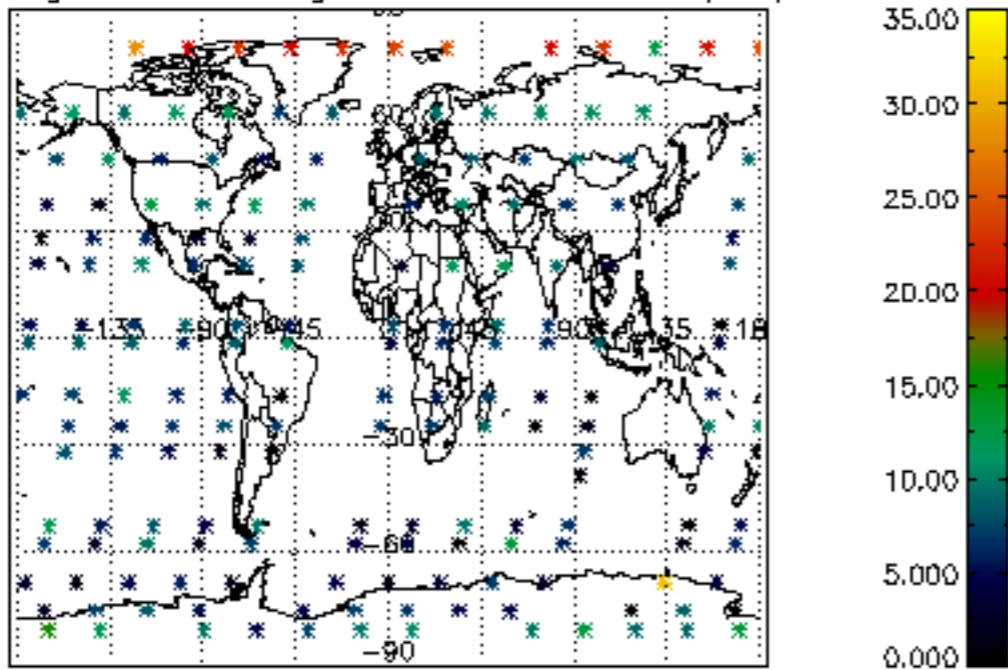
Percentage of cosmic ray hits per profile



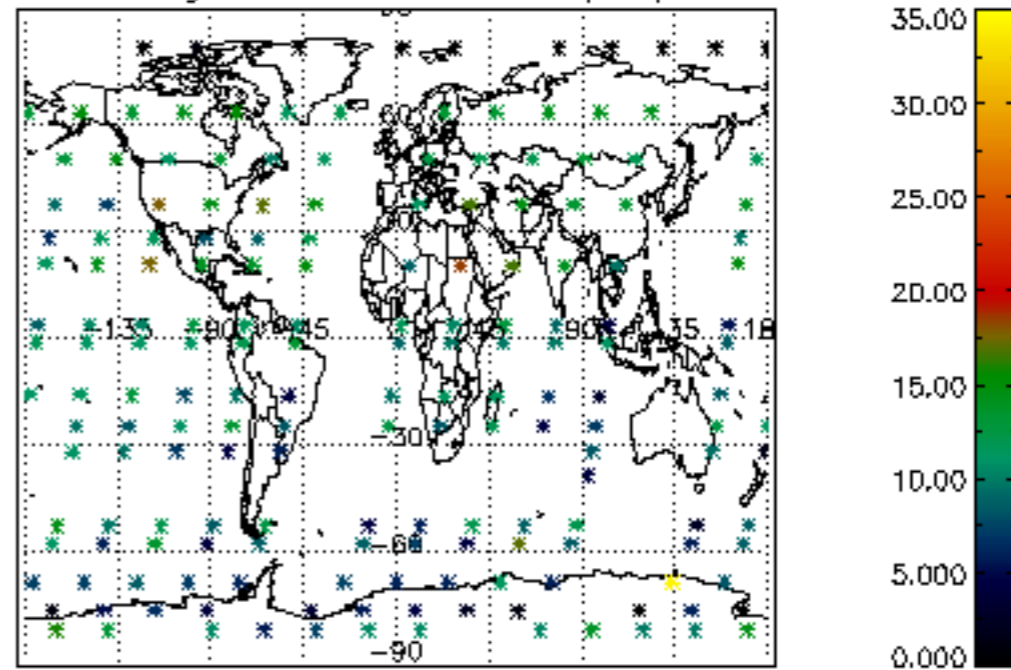
Percentage of datation errors per profile

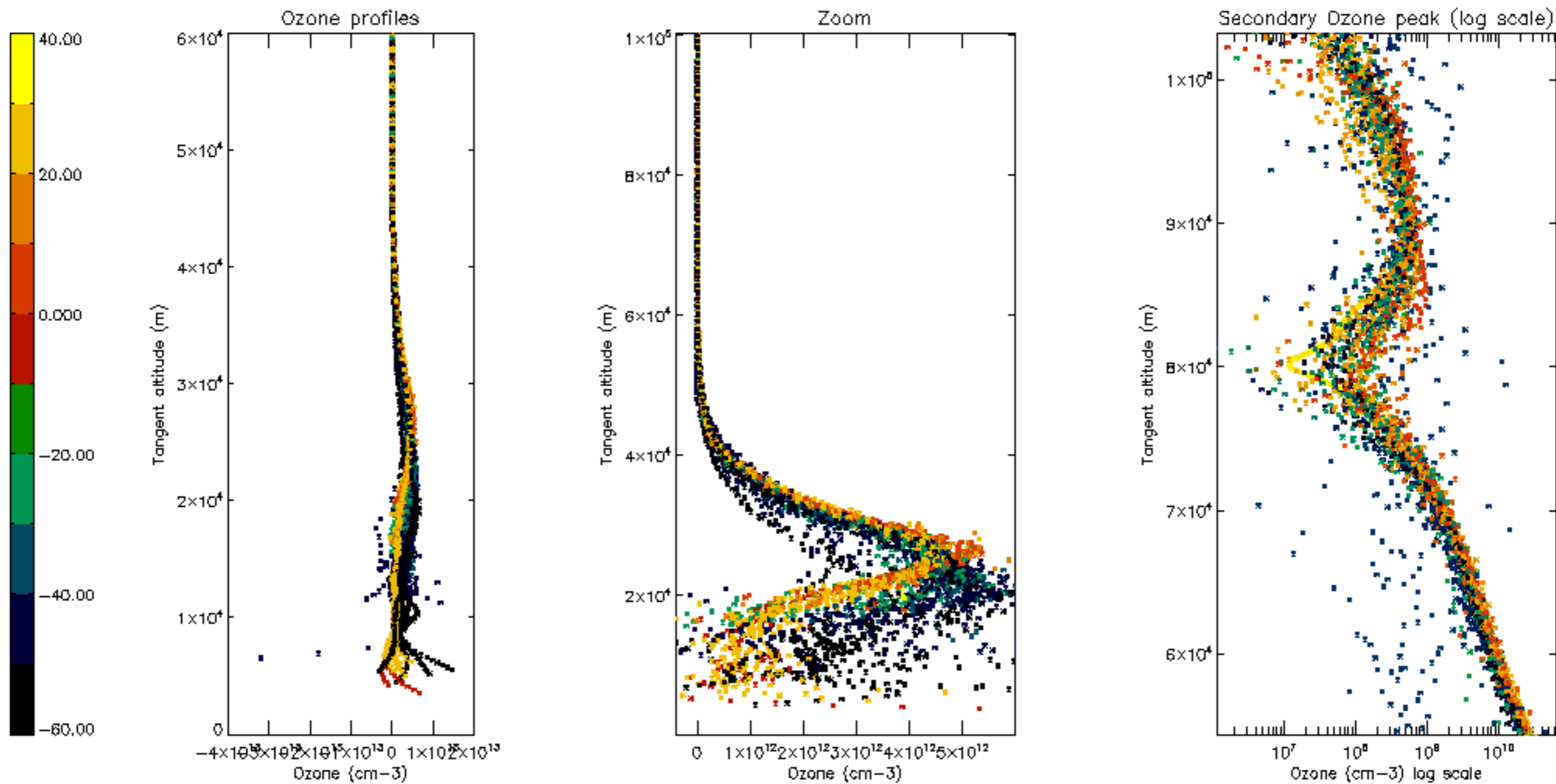


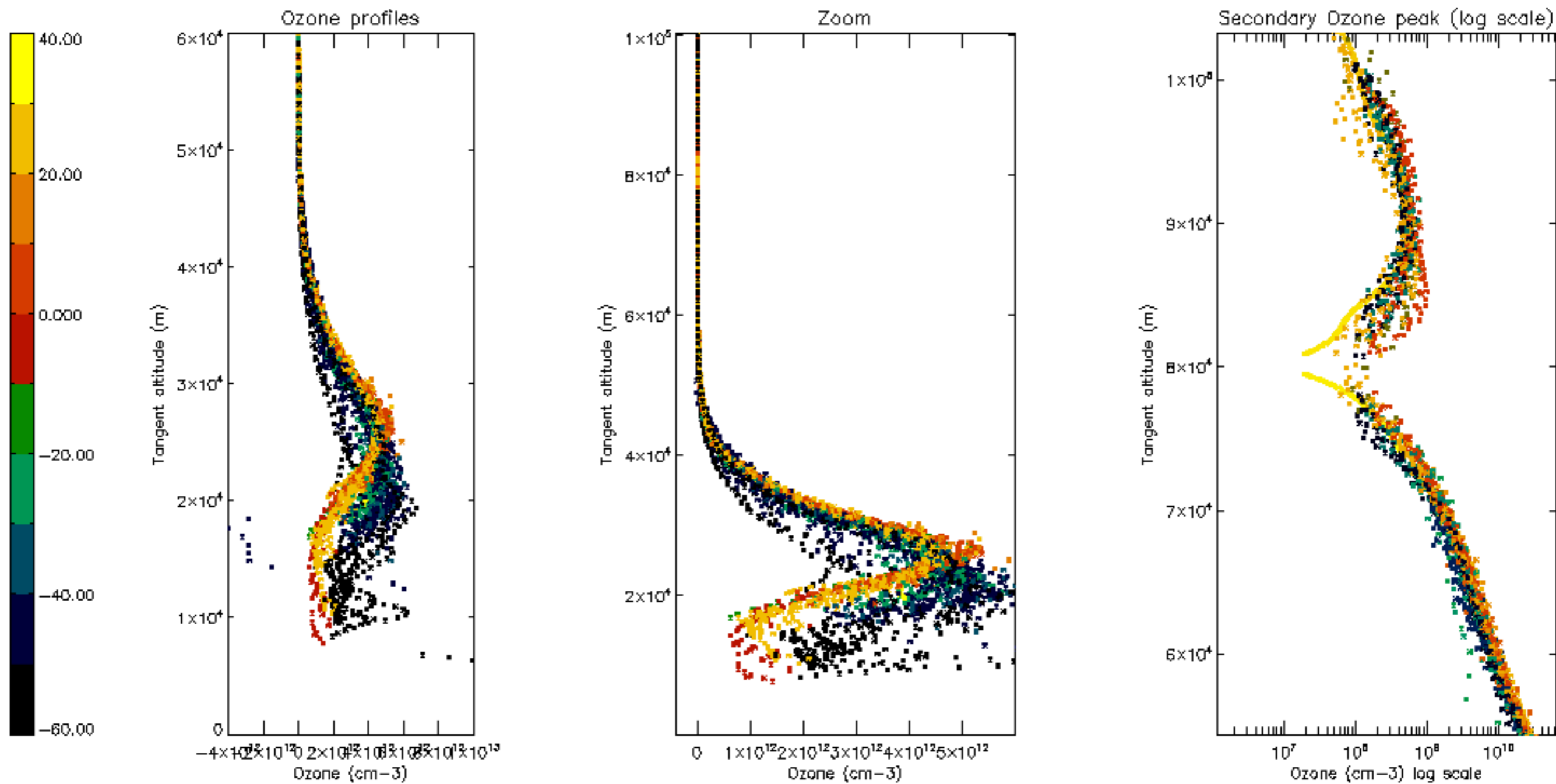
Percentage of star falling outside central band per profile



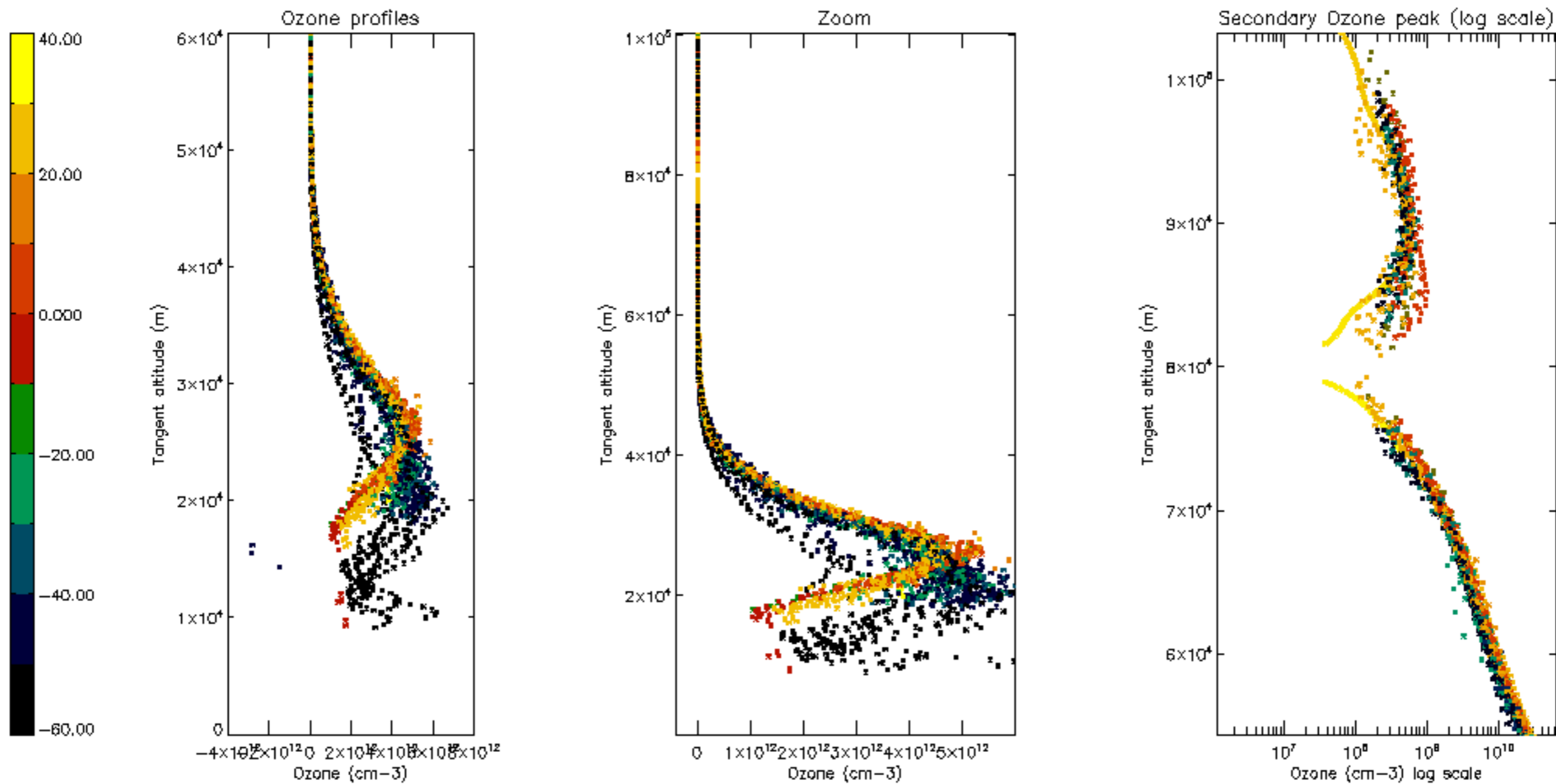
Percentage of saturation errors per profile

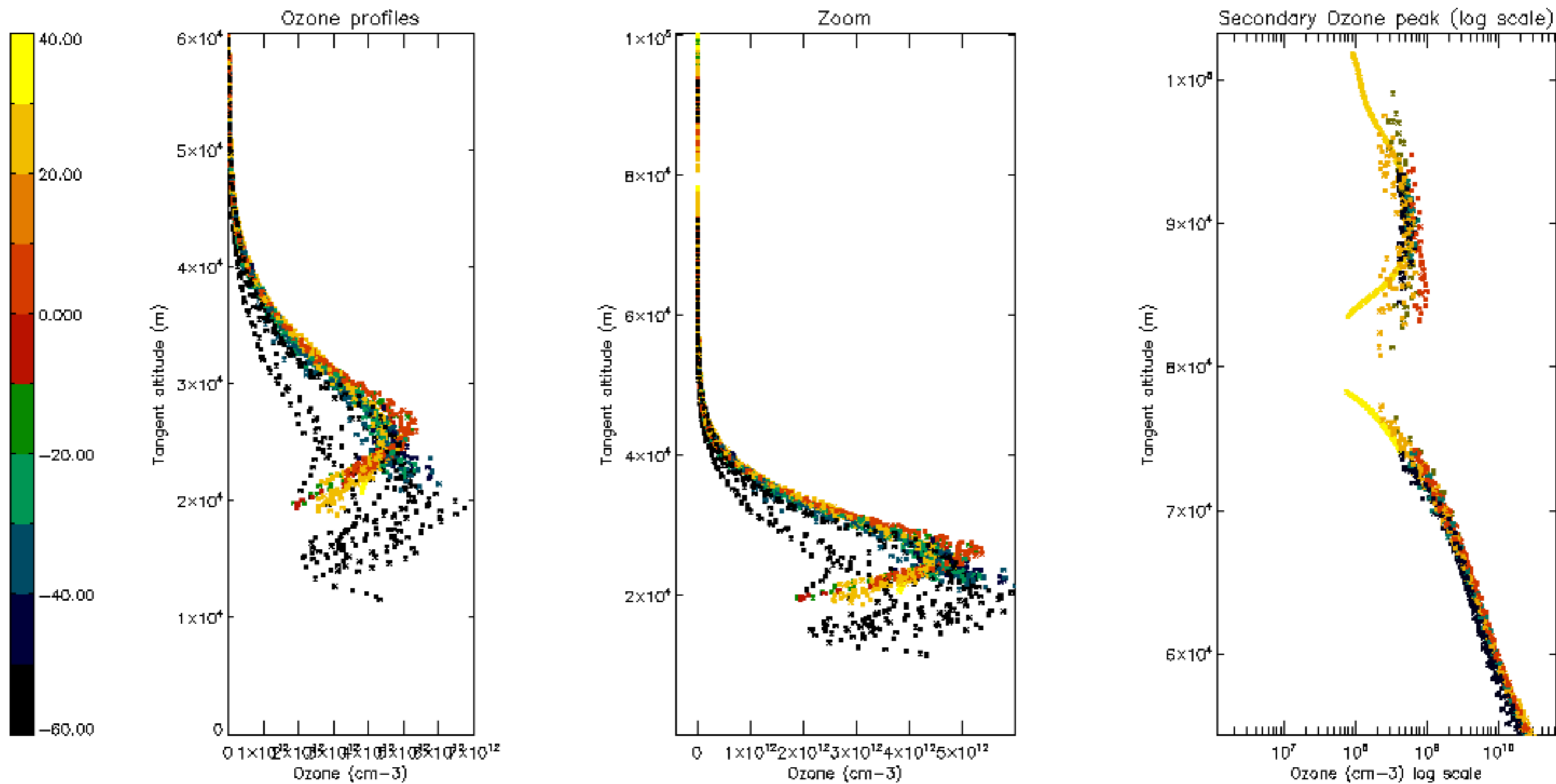


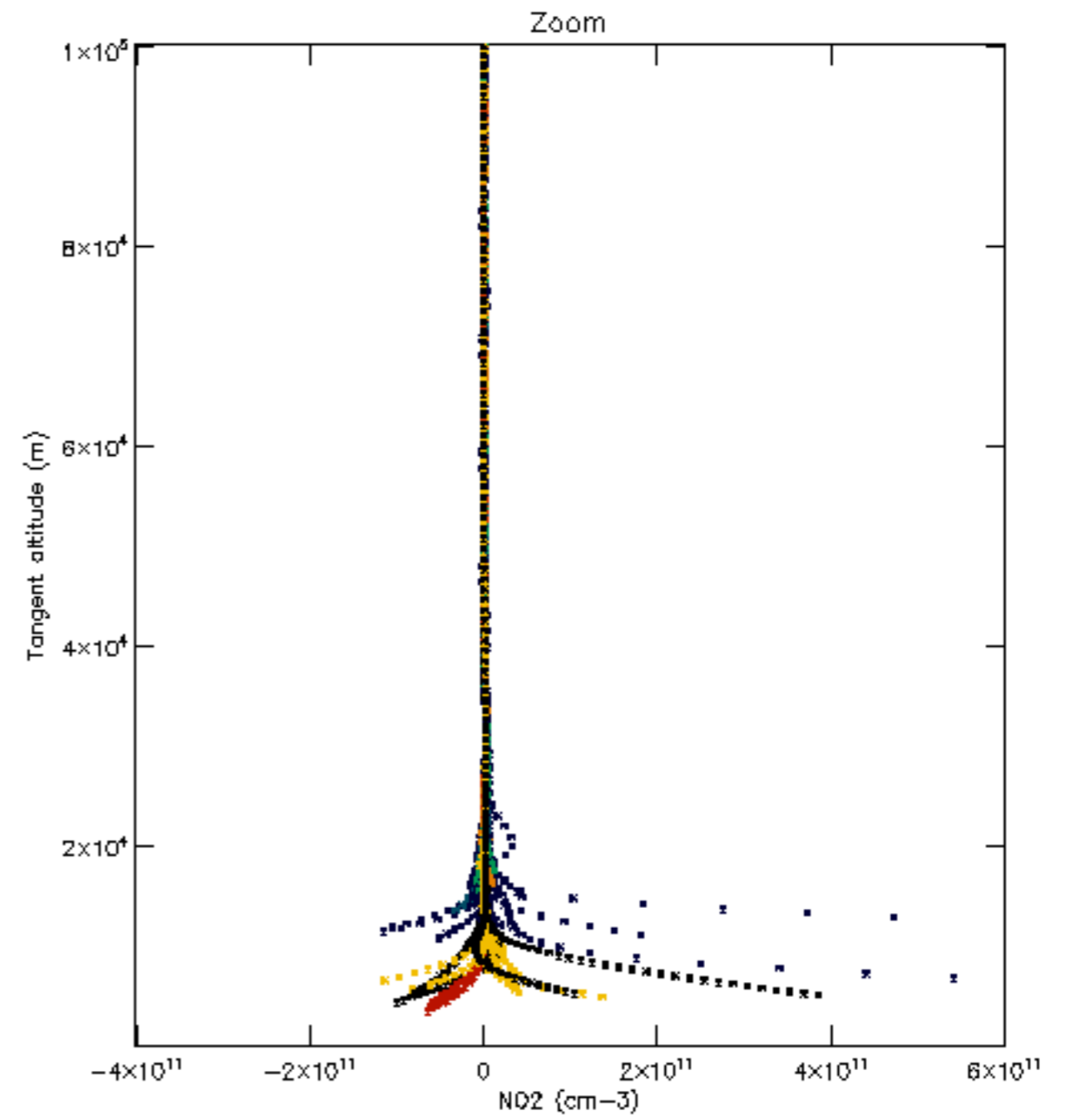
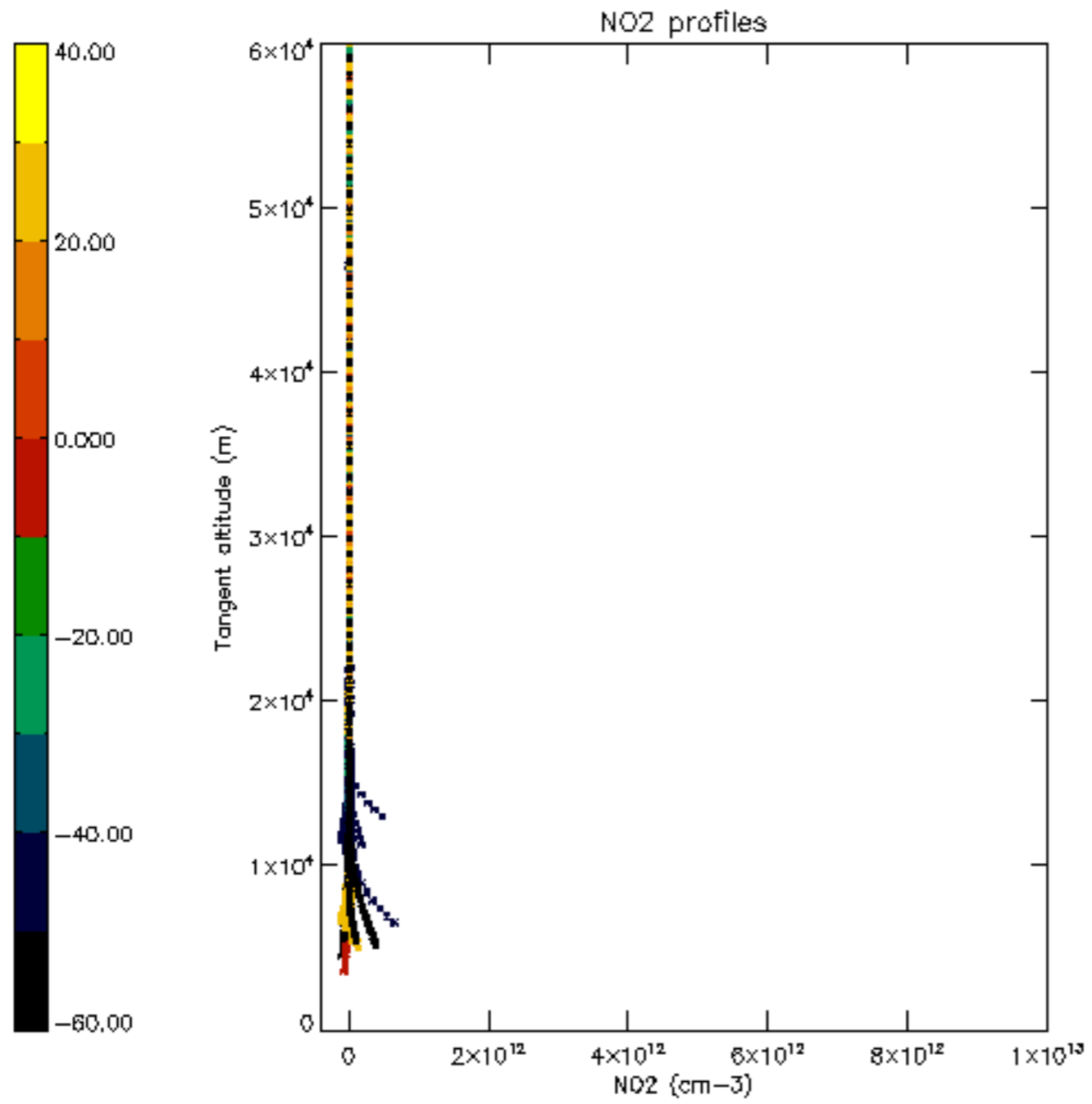


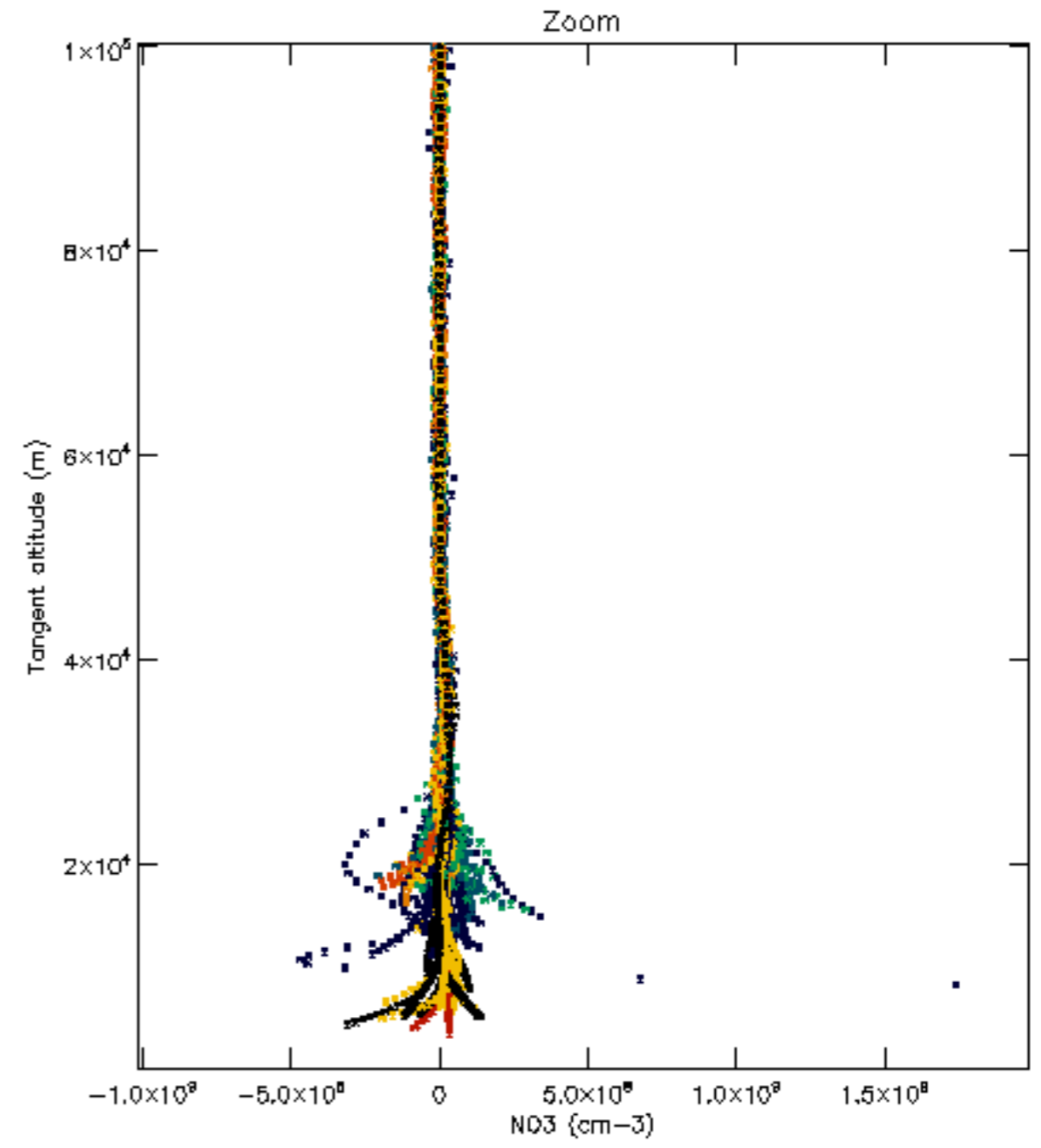
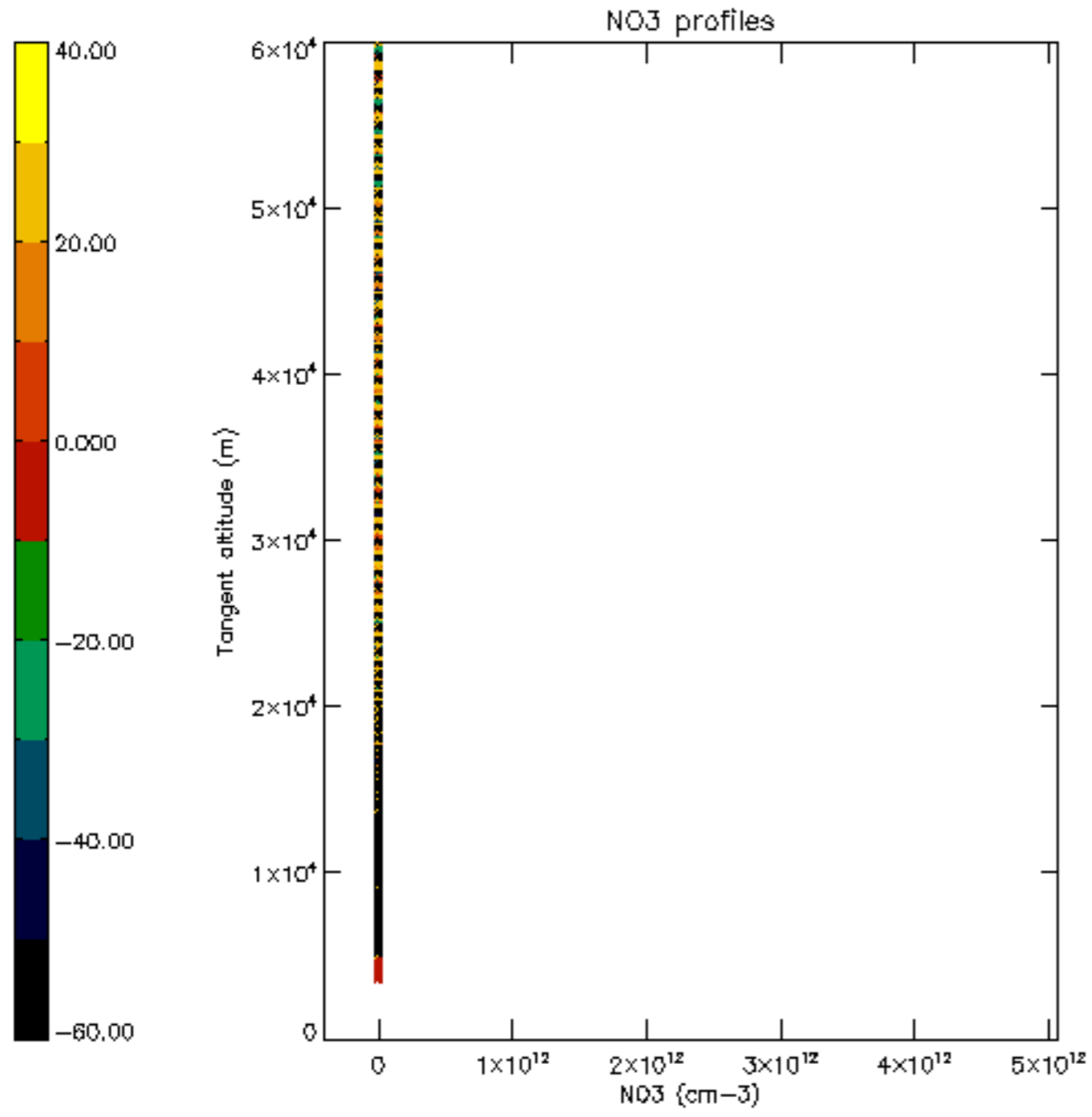


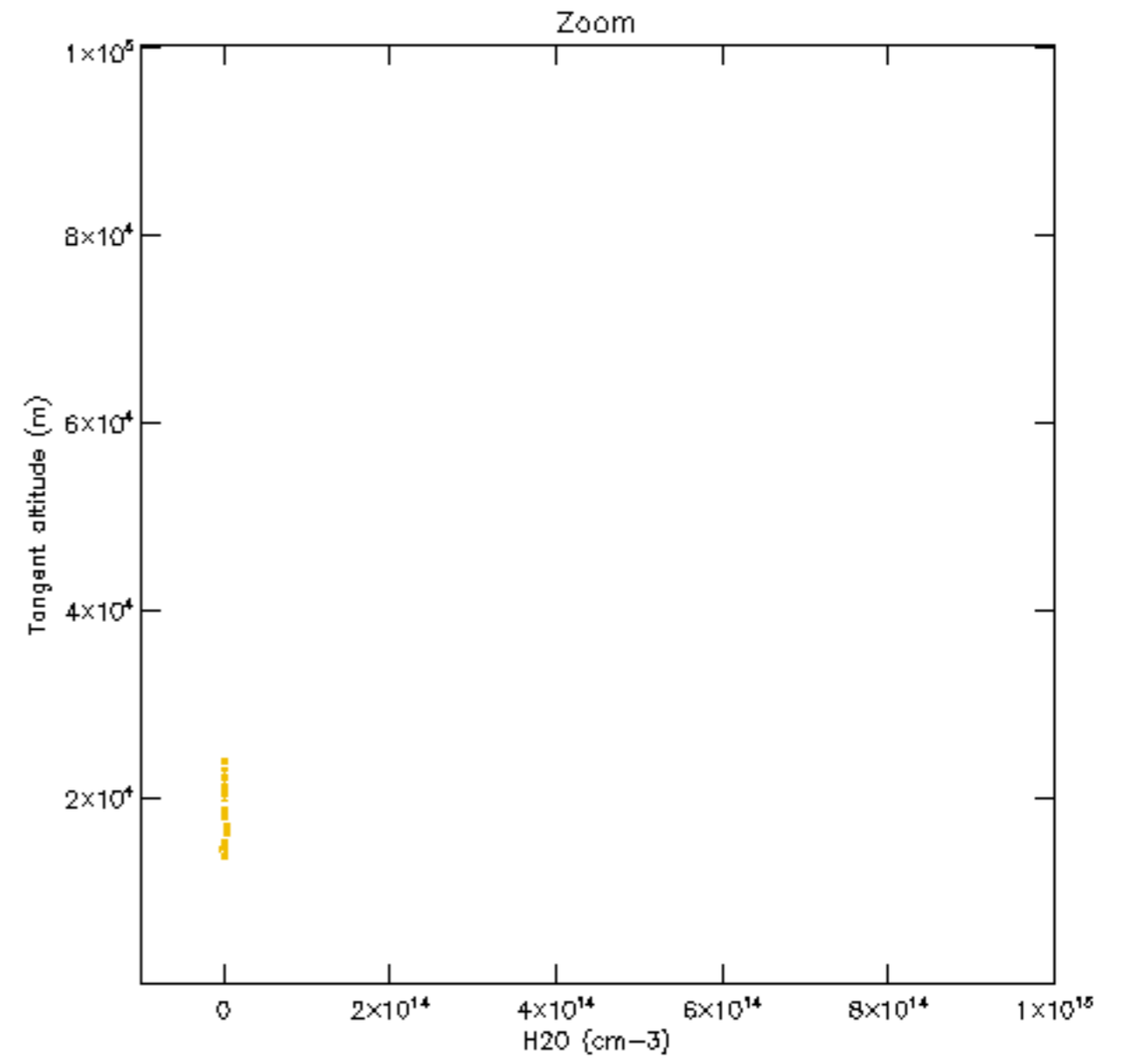
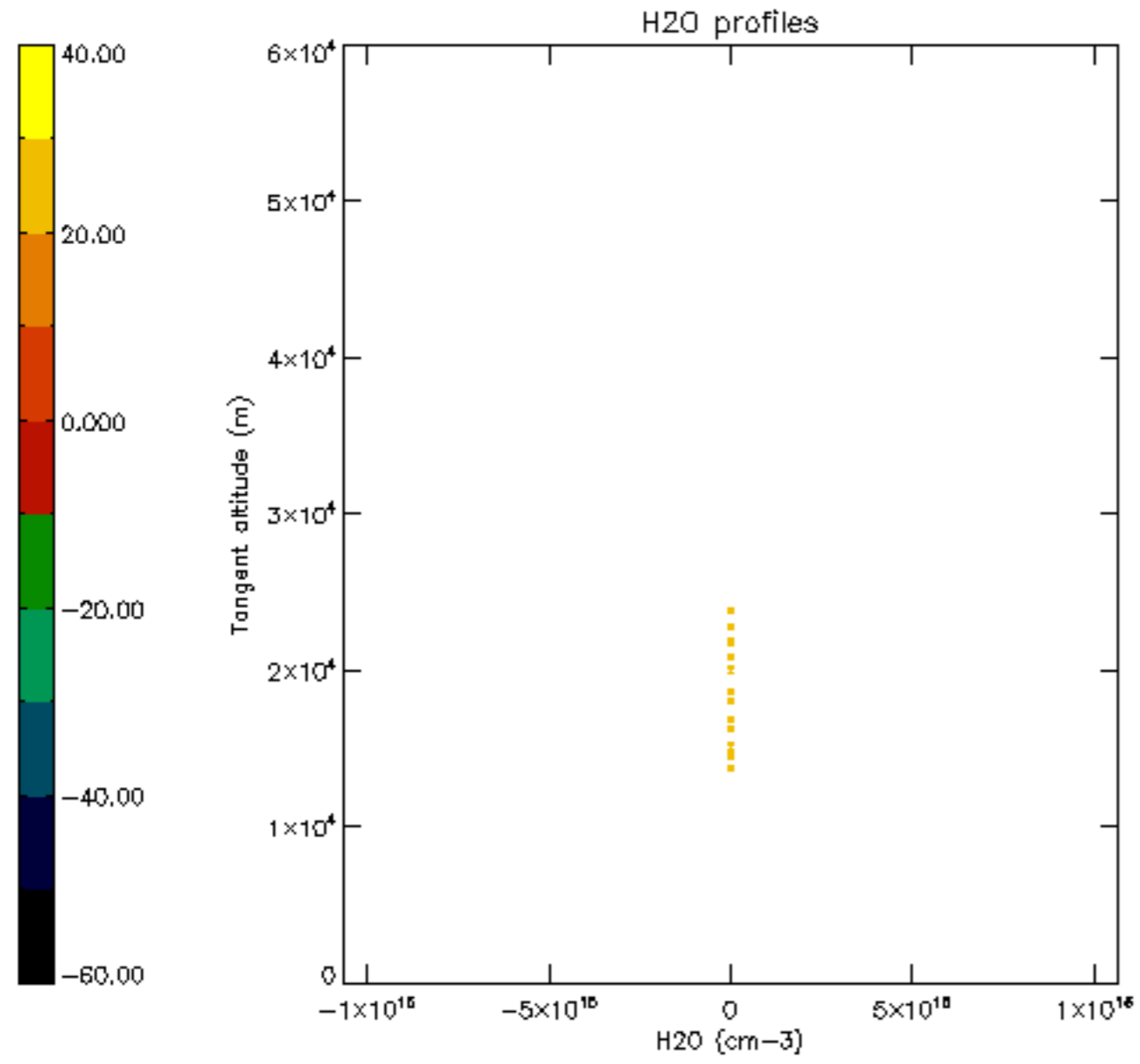


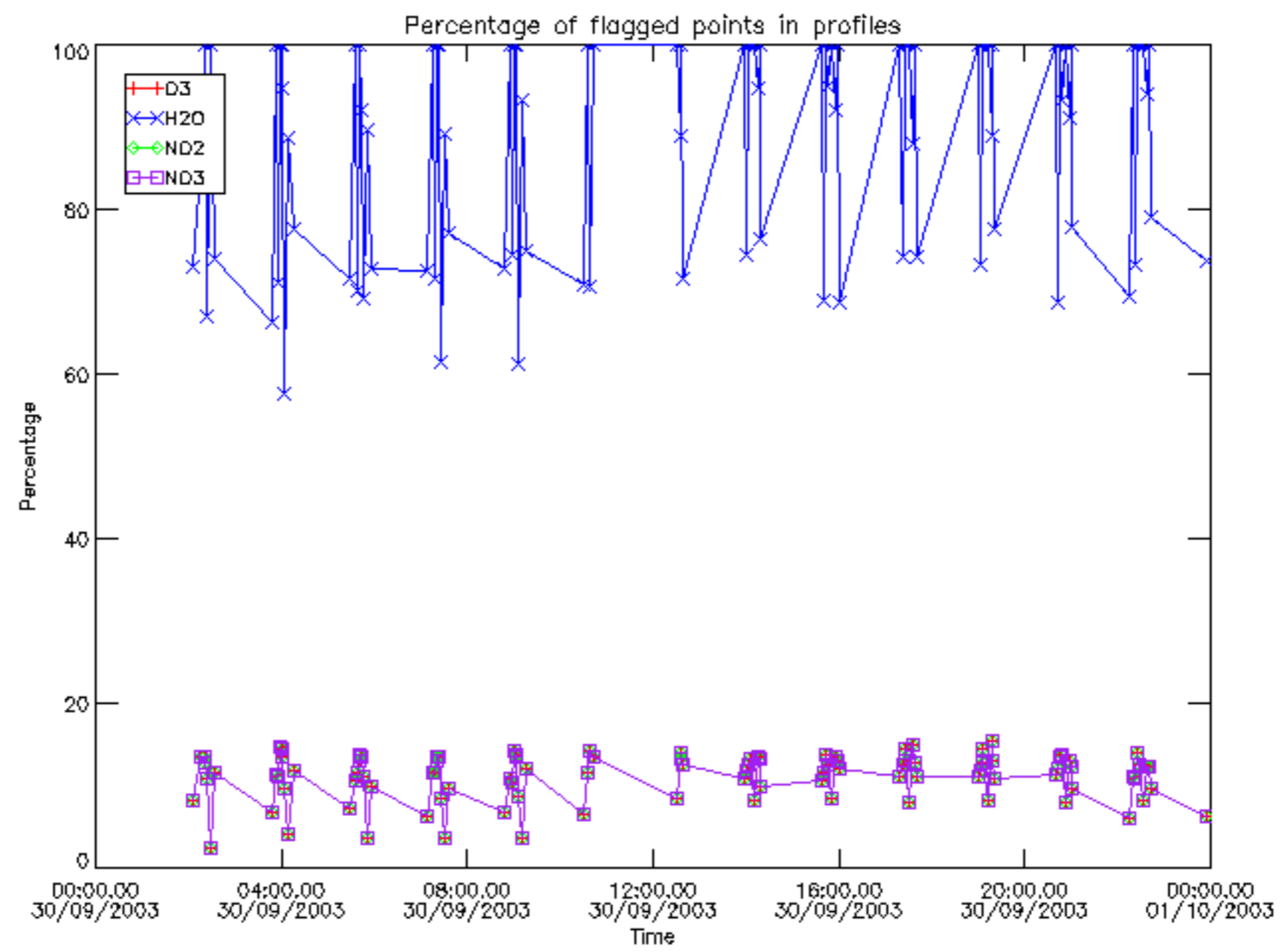




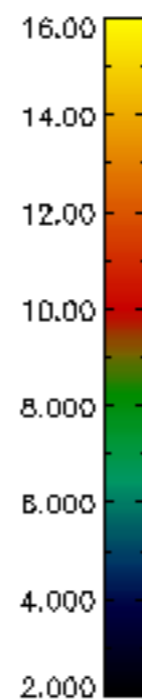
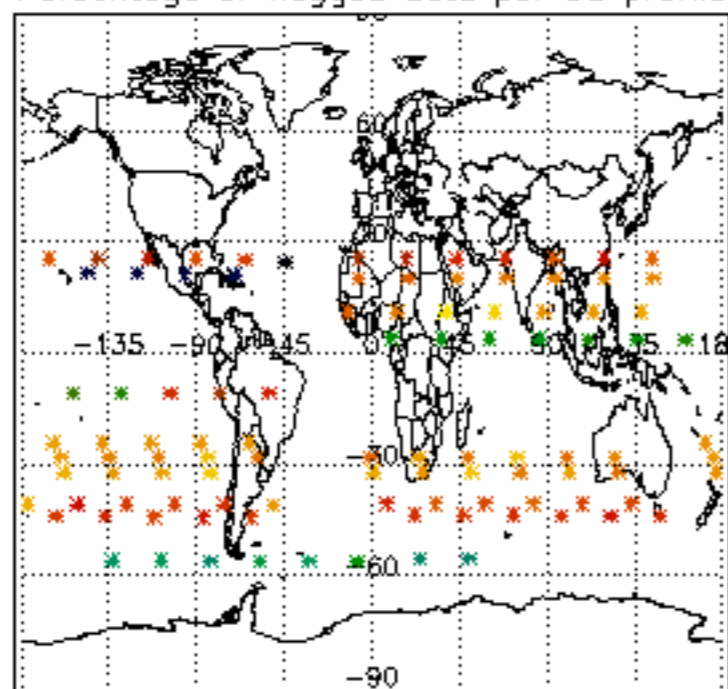




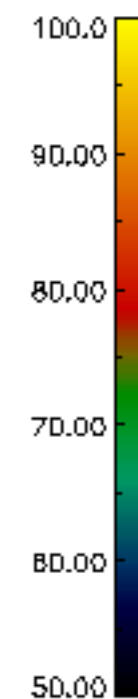
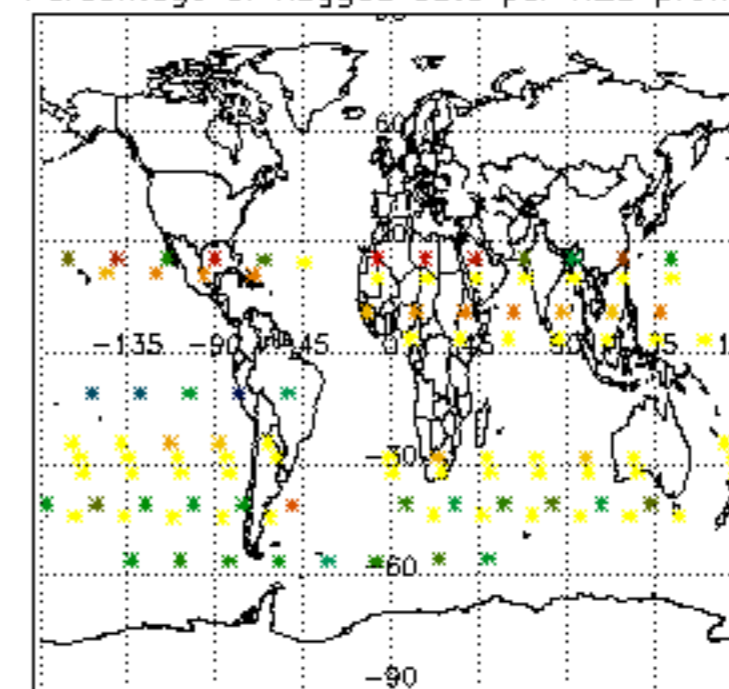




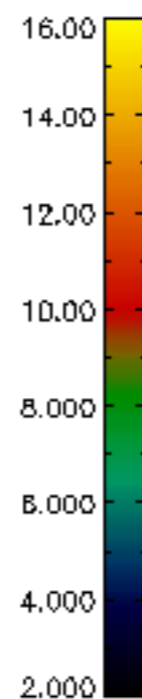
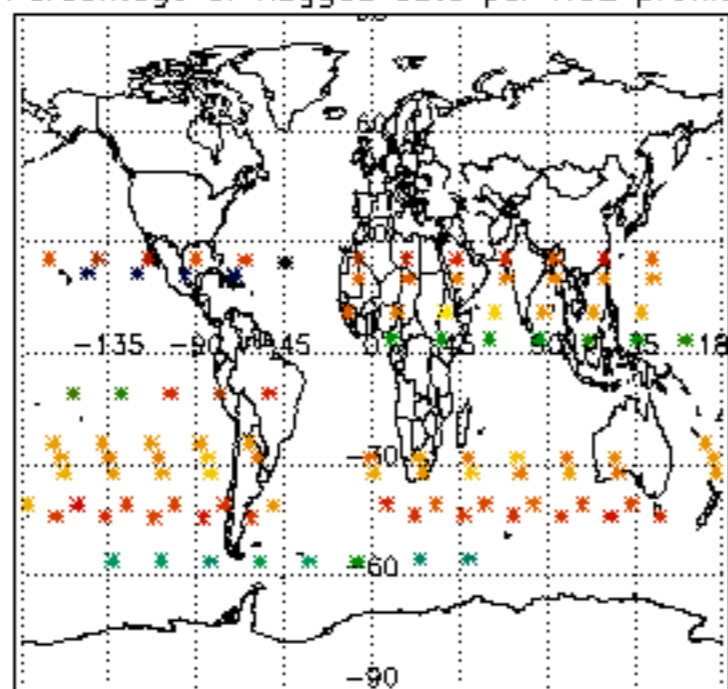
Percentage of flagged data per D3 profile



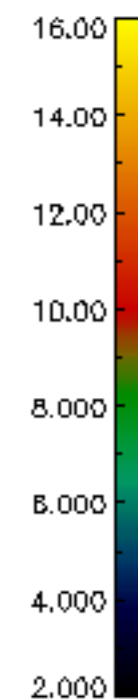
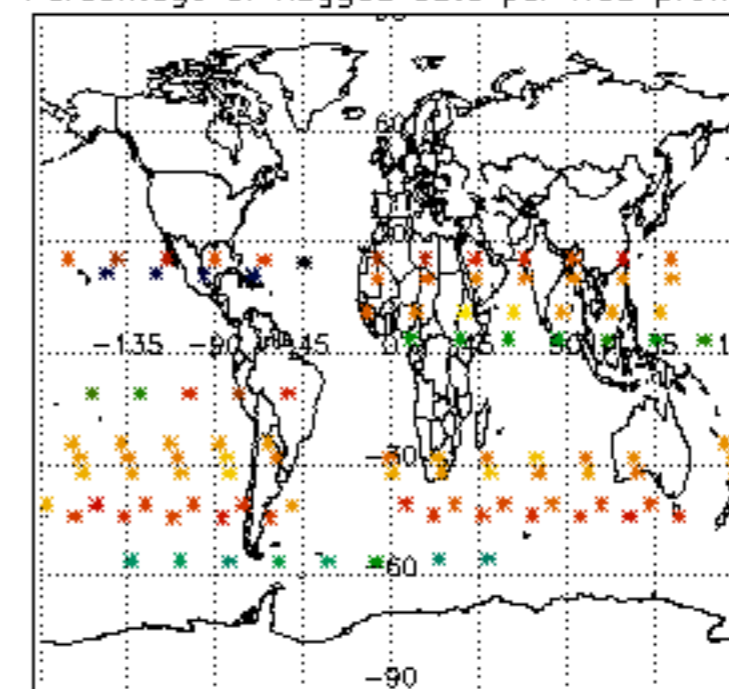
Percentage of flagged data per H2O profile

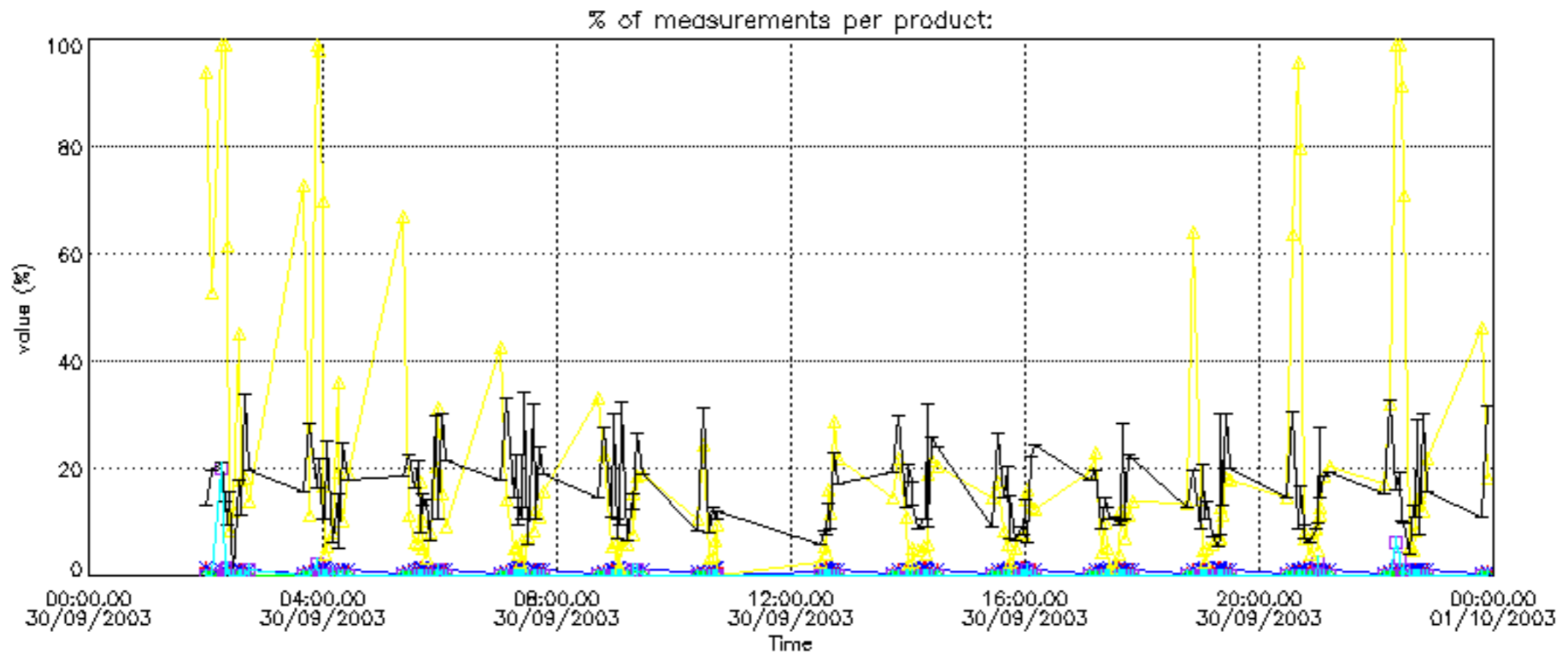


Percentage of flagged data per NO2 profile

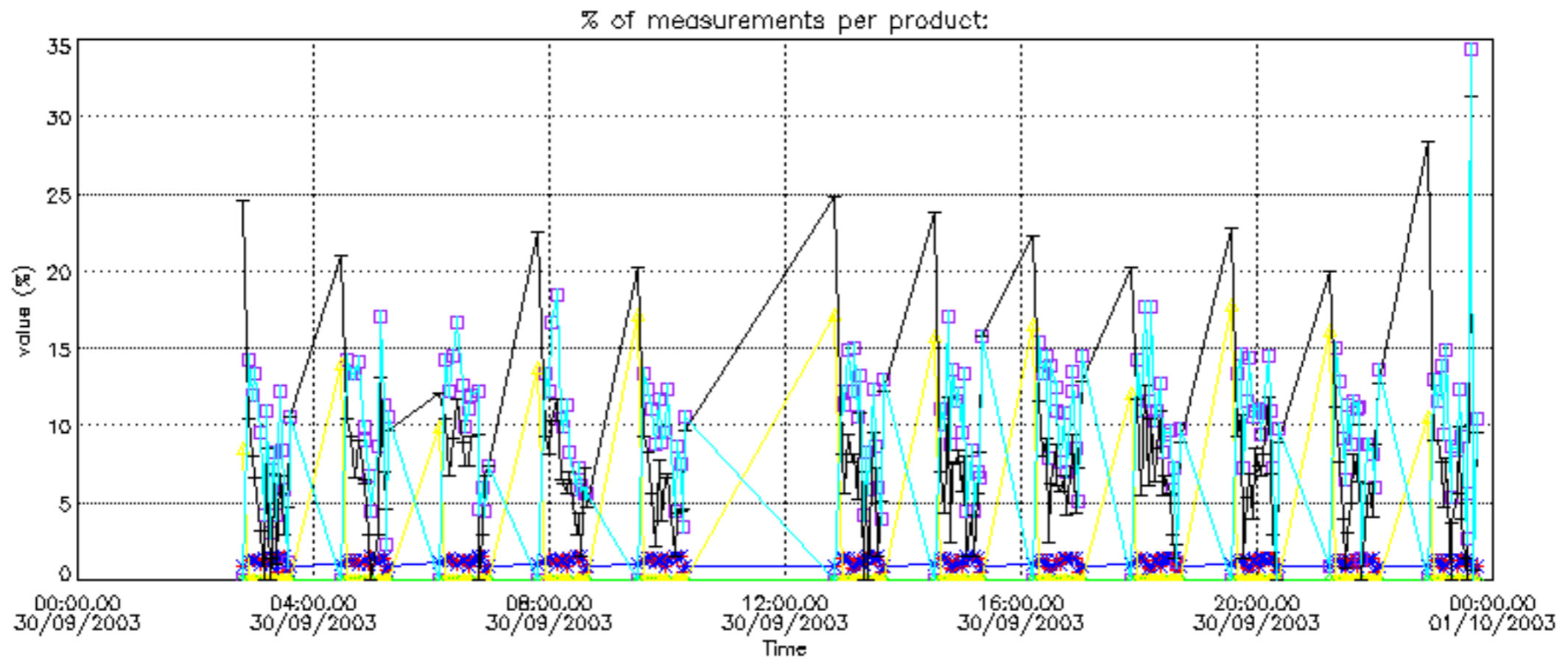


Percentage of flagged data per NO3 profile

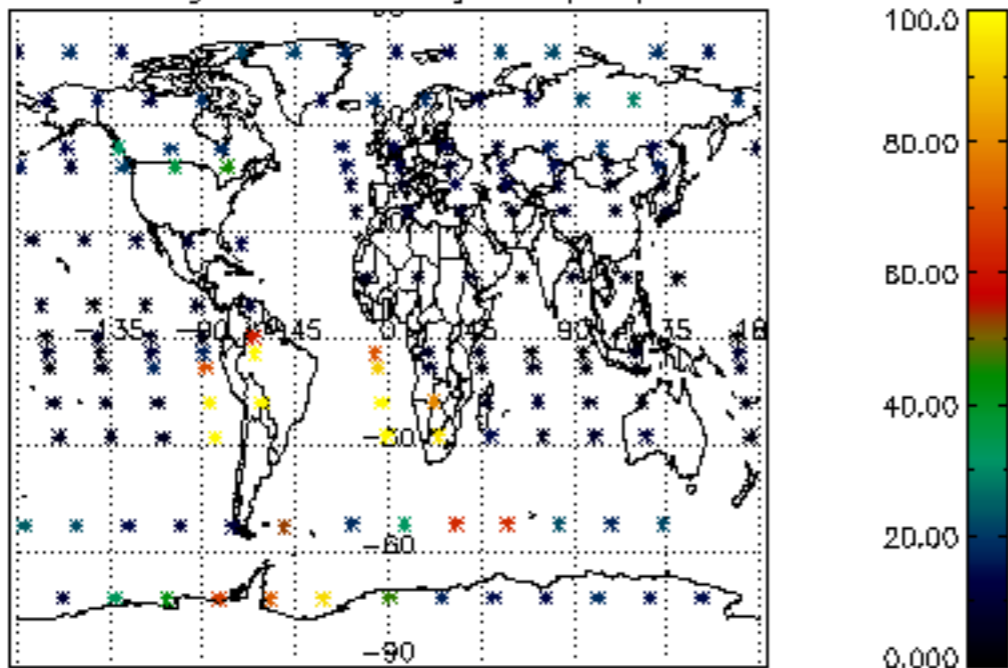




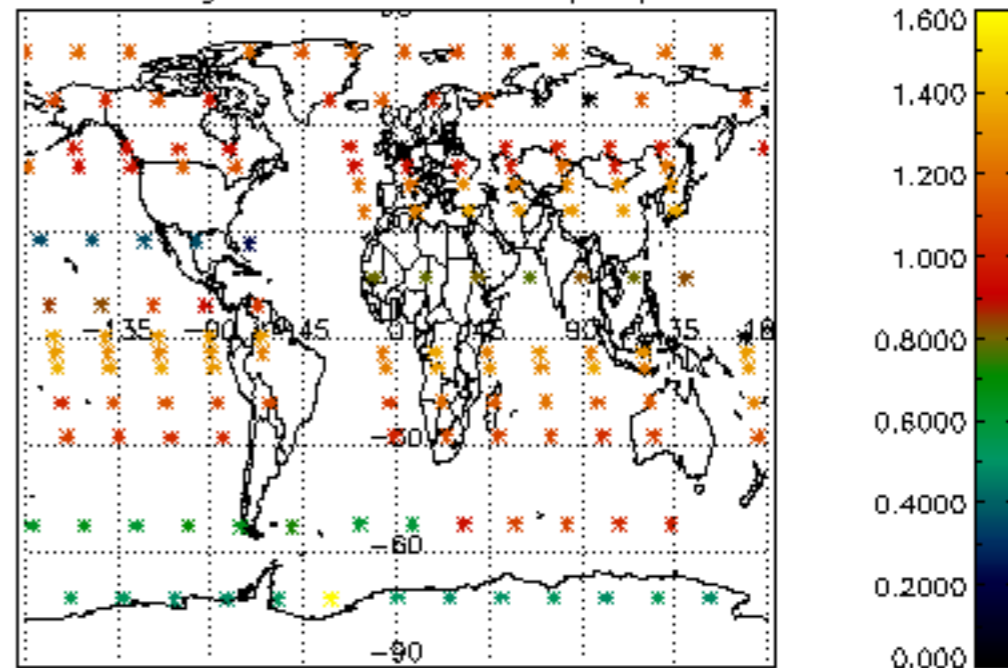




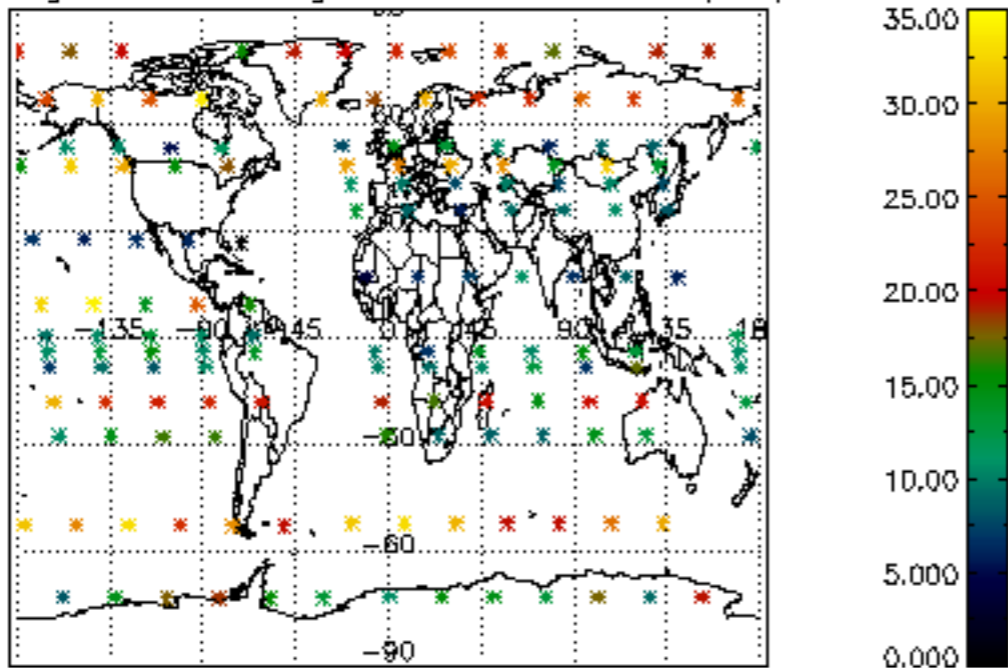
Percentage of cosmic ray hits per profile



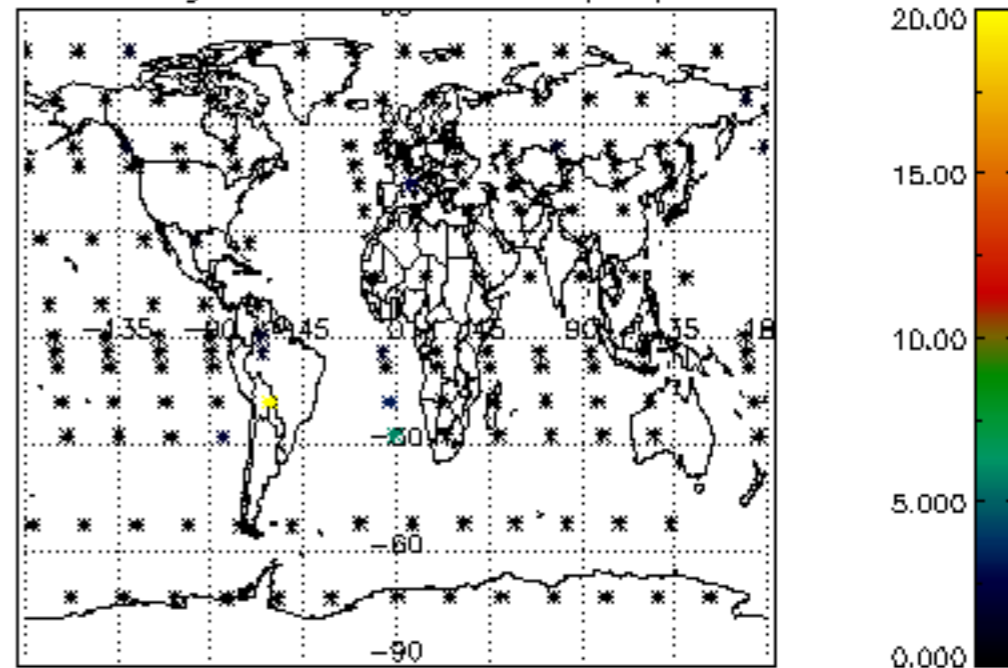
Percentage of datation errors per profile



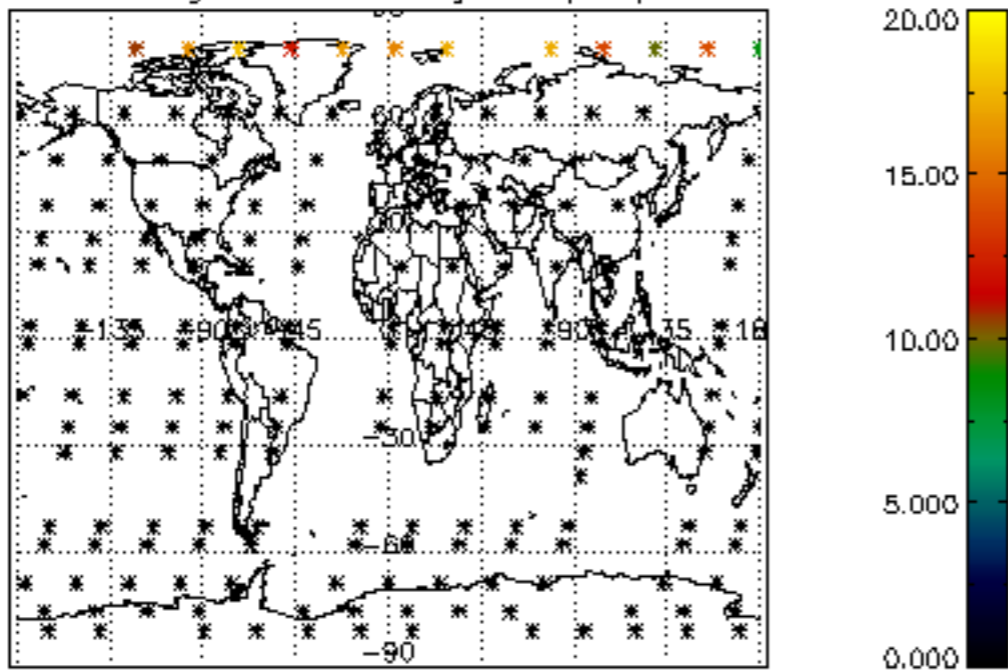
Percentage of star falling outside central band per profile



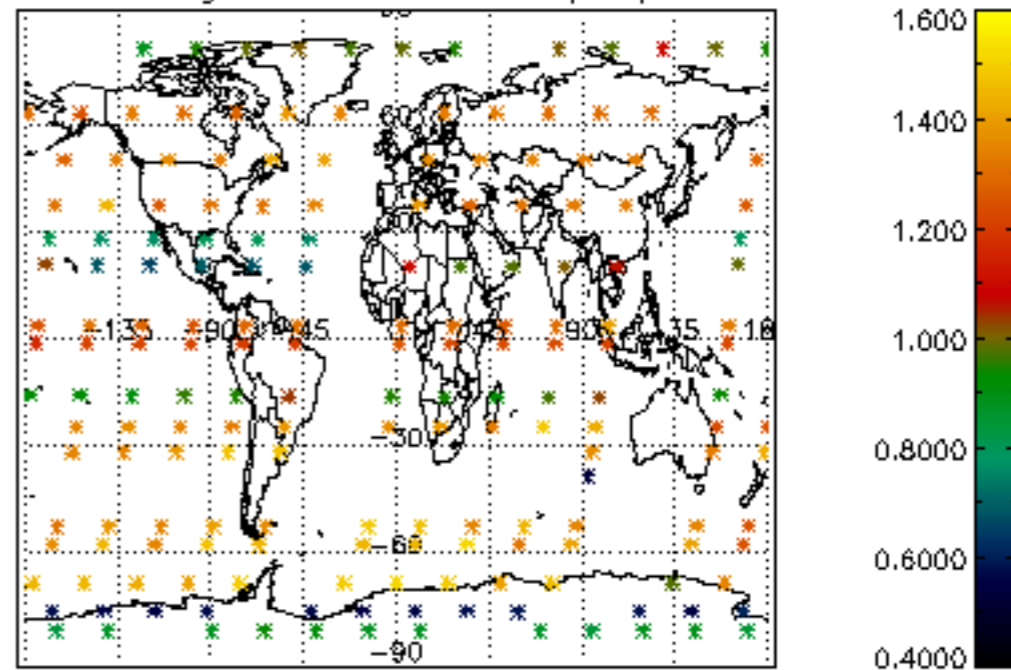
Percentage of saturation errors per profile



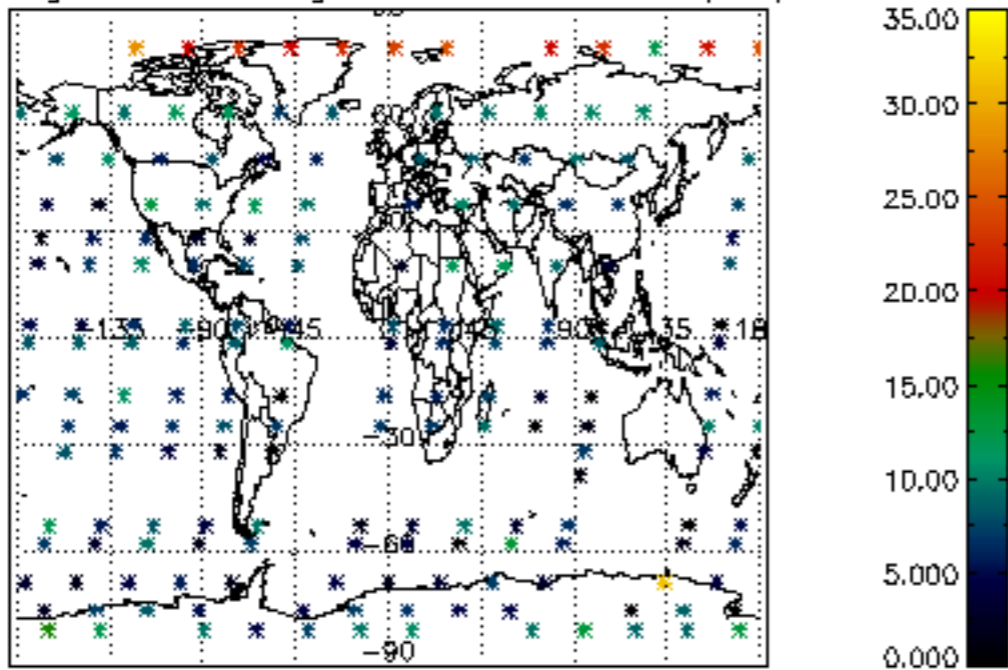
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

