

# 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	17APR2013 19:50:48
Data source version	GOMOS/6.01
Start time of products	31-10-2002 (31OCT2002 00:00:00)
Stop time of products	01-11-2002 (01NOV2002 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	202
Nb of prods with errors	99

## 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__2PRFIN20021031_000240_000000172010_00431_03491_2277.N1	31-OCT-2002 00:02:40	Dark	17.000	36	50Alp UMa	1.8000	6300.0	34	3491	Yes
2	GOM_NL__2PRFIN20021031_000411_000000162010_00431_03491_2278.N1	31-OCT-2002 00:04:11	Dark	15.500	32	77Eps UMa	1.7630	11000.	31	3491	Yes
3	GOM_NL__2PRFIN20021031_000507_000000152010_00431_03491_2279.N1	31-OCT-2002 00:05:07	Bright	14.500	87	64Gam UMa	2.4330	11000.	29	3491	No
4	GOM_NL__2PRFIN20021031_000757_000000152010_00431_03491_2280.N1	31-OCT-2002 00:07:57	Dark	14.500	174	52Psi UMa	3.0040	4400.0	29	3491	Yes
5	GOM_NL__2PRFIN20021031_001516_000000162010_00431_03491_2281.N1	31-OCT-2002 00:15:16	Dark	15.500	96	68Del Leo	2.5600	9300.0	31	3491	Yes
6	GOM_NL__2PRFIN20021031_001702_000002552010_00431_03491_2282.N1	31-OCT-2002 00:17:02	Dark	255.00	24	66Alp Gem	1.5800	10200.	510	3491	Yes
7	GOM_NL__2PRFIN20021031_002857_000000322010_00431_03491_2283.N1	31-OCT-2002 00:28:57	Dark	32.000	48	30Alp Hya	1.9770	4100.0	64	3491	No
8	GOM_NL__2PRFIN20021031_003503_000000172010_00431_03491_2284.N1	31-OCT-2002 00:35:03	Dark	17.000	113	Mu Vel	2.6920	5000.0	34	3491	Yes
9	GOM_NL__2PRFIN20021031_003617_000000152010_00431_03491_2285.N1	31-OCT-2002 00:36:17	Dark	15.000	129	Del Cru	2.7930	26000.	30	3491	Yes
10	GOM_NL__2PRFIN20021031_003731_000000322010_00431_03491_2286.N1	31-OCT-2002 00:37:31	Dark	31.500	65	Lam Vel	2.2040	4400.0	63	3491	Yes
11	GOM_NL__2PRFIN20021031_003846_000000162010_00432_03492_2254.N1	31-OCT-2002 00:38:46	Dark	15.500	91	Kap Vel	2.4900	26000.	31	3492	Yes
12	GOM_NL__2PRFIN20021031_004008_000000272010_00432_03492_2255.N1	31-OCT-2002 00:40:08	Dark	26.500	46	Del Vel	1.9540	10600.	53	3492	Yes
13	GOM_NL__2PRFIN20021031_004452_000000282010_00432_03492_2256.N1	31-OCT-2002 00:44:52	Dark	28.000	117	Pi Pup	2.7060	3800.0	56	3492	Yes
14	GOM_NL__2PRFIN20021031_004637_000000232010_00432_03492_2257.N1	31-OCT-2002 00:46:37	Dark	23.000	2	Alp Car	-0.73600	7000.0	46	3492	Yes
15	GOM_NL__2PRFIN20021031_004809_000000402010_00432_03492_2258.N1	31-OCT-2002 00:48:09	Dark	40.000	23	21Eps CMa	1.5020	26000.	80	3492	Yes
16	GOM_NL__2PRFIN20021031_005219_000000162010_00432_03492_2259.N1	31-OCT-2002 00:52:19	Dark	16.000	143	Alp Hyi	2.8570	7200.0	32	3492	Yes
17	GOM_NL__2PRFIN20021031_005342_000000262010_00432_03492_2260.N1	31-OCT-2002 00:53:42	Dark	25.500	9	Alp Eri	0.45300	24000.	51	3492	Yes
18	GOM_NL__2PRFIN20021031_005659_000000192010_00432_03492_2261.N1	31-OCT-2002 00:56:59	Dark	18.500	157	The1Eri	2.9060	9300.0	37	3492	Yes
19	GOM_NL__2PRFIN20021031_005828_000000222010_00432_03492_2262.N1	31-OCT-2002 00:58:28	Dark	22.000	84	Alp Phe	2.3970	4500.0	44	3492	Yes
20	GOM_NL__2PRFIN20021031_010035_000000482010_00432_03492_2263.N1	31-OCT-2002 01:00:35	Dark	47.500	139	9Bet Lep	2.8330	5600.0	95	3492	Yes
21	GOM_NL__2PRFIN20021031_010257_000000602010_00432_03492_2264.N1	31-OCT-2002 01:02:57	Dark	59.500	101	11Alp Lep	2.5820	7000.0	119	3492	Yes
22	GOM_NL__2PRFIN20021031_010529_000000362010_00432_03492_2265.N1	31-OCT-2002 01:05:29	Dark	35.500	165	34Gam Eri	2.9500	3200.0	71	3492	Yes
23	GOM_NL__2PRFIN20021031_011145_000000312010_00432_03492_2266.N1	31-OCT-2002 01:11:45	Dark	30.500	94	92Alp Cet	2.5260	3100.0	61	3492	Yes
24	GOM_NL__2PRFIN20021031_011433_000000132010_00432_03492_2267.N1	31-OCT-2002 01:14:33	Dark	13.000	140	88Gam Peg	2.8340	26000.	26	3492	Yes
25	GOM_NL__2PRFIN20021031_011600_000000172010_00432_03492_2268.N1	31-OCT-2002 01:16:00	Bright	16.500	105	6Bet Ari	2.6450	8900.0	33	3492	No
26	GOM_NL__2PRFIN20021031_011659_000000202010_00432_03492_2269.N1	31-OCT-2002 01:16:59	Dark	19.500	50	13Alp Ari	2.0070	4250.0	39	3492	Yes
27	GOM_NL__2PRFIN20021031_011825_000000162010_00432_03492_2270.N1	31-OCT-2002 01:18:25	Dark	15.500	58	21Alp And	2.0730	11000.	31	3492	Yes
28	GOM_NL__2PRFIN20021031_011957_000000182010_00432_03492_2271.N1	31-OCT-2002 01:19:57	Dark	18.000	53	43Bet And	2.0480	3300.0	36	3492	Yes
29	GOM_NL__2PRFIN20021031_012230_000000182010_00432_03492_2272.N1	31-OCT-2002 01:22:30	Dark	18.000	73	57Gam1And	2.2600	13100.	36	3492	Yes
30	GOM_NL__2PRFIN20021031_012401_000000182010_00432_03492_2273.N1	31-OCT-2002 01:24:01	Dark	17.500	79	26Bet Per	2.3100	13100.	35	3492	Yes
31	GOM_NL__2PRFIN20021031_012549_000000132010_00432_03492_2274.N1	31-OCT-2002 01:25:49	Dark	12.500	68	18Alp Cas	2.2250	4500.0	25	3492	Yes
32	GOM_NL__2PRFIN20021031_012702_000000122010_00432_03492_2275.N1	31-OCT-2002 01:27:02	Dark	12.000	76	27Gam Cas	2.3000	30000.	24	3492	Yes
33	GOM_NL__2PRFIN20021031_013023_000000152010_00432_03492_2276.N1	31-OCT-2002 01:30:23	Dark	15.000	89	5Alp Cep	2.4510	8000.0	30	3492	Yes
34	GOM_NL__2PRFIN20021031_013506_000000312010_00432_03492_2277.N1	31-OCT-2002 01:35:06	Bright	31.000	49	1Alp UMi	1.9900	6300.0	62	3492	No
35	GOM_NL__2PRFIN20021031_013852_000000172010_00432_03492_2278.N1	31-OCT-2002 01:38:52	Dark	17.000	60	7Bet UMi	2.0810	3950.0	34	3492	Yes
36	GOM_NL__2PRFIN20021031_014317_000000162010_00432_03492_2279.N1	31-OCT-2002 01:43:17	Dark	16.000	36	50Alp UMa	1.8000	6300.0	32	3492	Yes
37	GOM_NL__2PRFIN20021031_014447_000000142010_00432_03492_2280.N1	31-OCT-2002 01:44:47	Dark	14.000	32	77Eps UMa	1.7630	11000.	28	3492	Yes
38	GOM_NL__2PRFIN20021031_014543_000000312010_00432_03492_2281.N1	31-OCT-2002 01:45:43	Bright	31.000	87	64Gam UMa	2.4330	11000.	62	3492	No
39	GOM_NL__2PRFIN20021031_014833_000000152010_00432_03492_2282.N1	31-OCT-2002 01:48:33	Dark	15.000	174	52Psi UMa	3.0040	4400.0	30	3492	Yes
40	GOM_NL__2PRFIN20021031_015553_000000152010_00432_03492_2283.N1	31-OCT-2002 01:55:53	Dark	15.000	96	68Del Leo	2.5600	9300.0	30	3492	Yes
41	GOM_NL__2PRFIN20021031_015741_000002552010_00432_03492_2284.N1	31-OCT-2002 01:57:41	Dark	255.00	24	66Alp Gem	1.5800	10200.	510	3492	Yes
42	GOM_NL__2PRFIN20021031_020934_000000452010_00432_03492_2285.N1	31-OCT-2002 02:09:34	Dark	45.000	48	30Alp Hya	1.9770	4100.0	90	3492	No



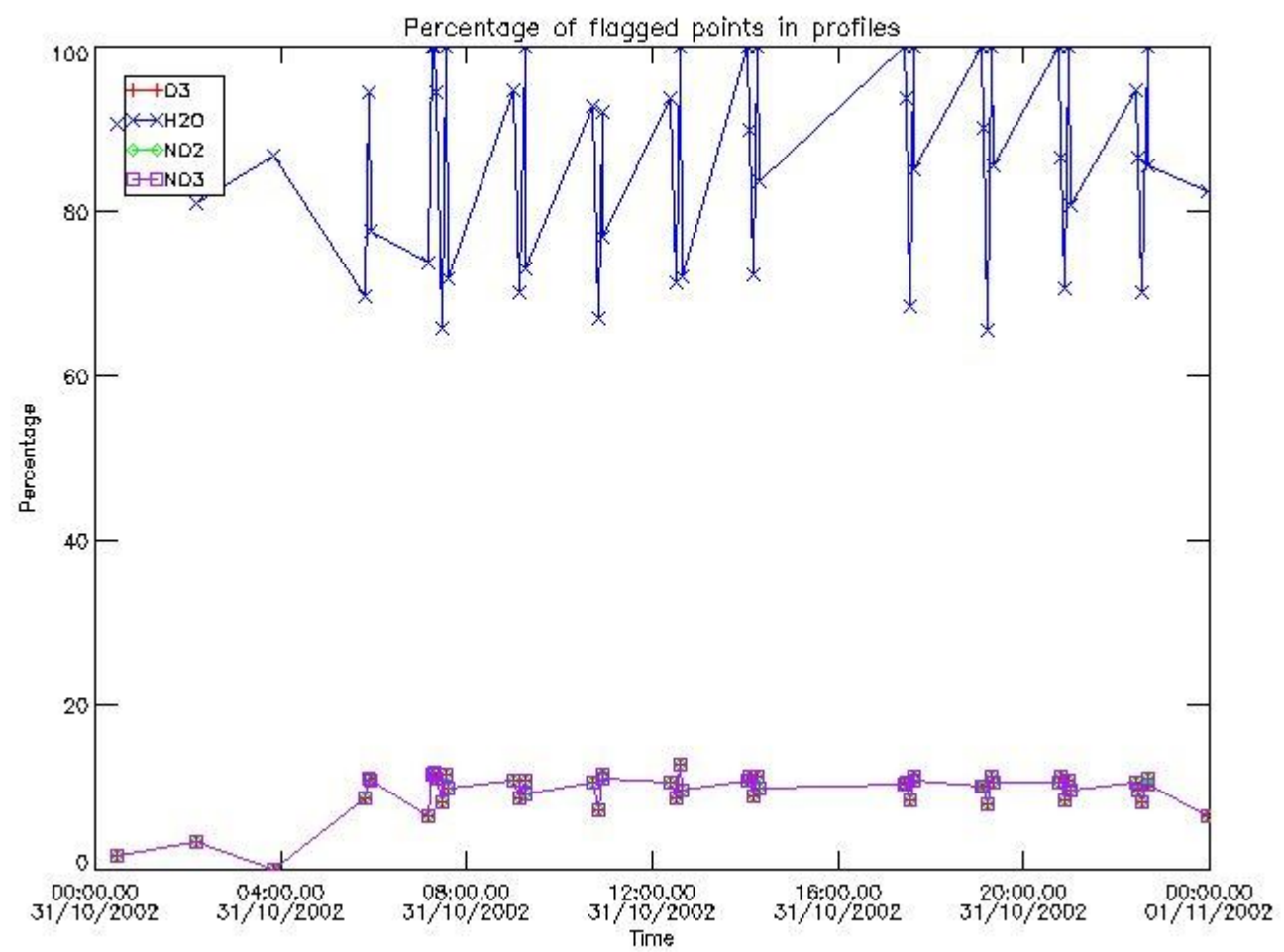


161	GOM_NL__2PRFIN20021031_141056_000000572010_00440_03500_9302.N1	31-OCT-2002 14:10:56	Dark	56.500	2	Alp Car	-0.73600	7000.0	113	3500	No
162	GOM_NL__2PRFIN20021031_141639_000000452010_00440_03500_9303.N1	31-OCT-2002 14:16:39	Dark	45.000	143	Alp Hyi	2.8570	7200.0	90	3500	No
163	GOM_NL__2PRFIN20021031_141802_000000522010_00440_03500_9304.N1	31-OCT-2002 14:18:02	Dark	52.000	9	Alp Eri	0.45300	24000.	104	3500	No
164	GOM_NL__2PRFIN20021031_142232_000002032010_00440_03500_9305.N1	31-OCT-2002 14:22:32	Straylight	202.50	1	9Alp CMa	-1.4400	11000.	405	3500	No
165	GOM_NL__2PRFIN20021031_172420_000000492010_00442_03502_9341.N1	31-OCT-2002 17:24:20	Dark	49.000	91	Kap Vel	2.4900	26000.	98	3502	No
166	GOM_NL__2PRFIN20021031_172659_000000482010_00442_03502_9342.N1	31-OCT-2002 17:26:59	Dark	48.000	29	Bet Car	1.6720	10200.	96	3502	No
167	GOM_NL__2PRFIN20021031_173208_000000612010_00442_03502_9343.N1	31-OCT-2002 17:32:08	Dark	60.500	2	Alp Car	-0.73600	7000.0	121	3502	No
168	GOM_NL__2PRFIN20021031_173751_000000452010_00442_03502_9344.N1	31-OCT-2002 17:37:51	Dark	45.000	143	Alp Hyi	2.8570	7200.0	90	3502	No
169	GOM_NL__2PRFIN20021031_173915_000000472010_00442_03502_9345.N1	31-OCT-2002 17:39:15	Dark	47.000	9	Alp Eri	0.45300	24000.	94	3502	No
170	GOM_NL__2PRFIN20021031_190456_000000502010_00443_03503_9341.N1	31-OCT-2002 19:04:56	Dark	50.000	91	Kap Vel	2.4900	26000.	100	3503	No
171	GOM_NL__2PRFIN20021031_190735_000000512010_00443_03503_9342.N1	31-OCT-2002 19:07:35	Dark	50.500	29	Bet Car	1.6720	10200.	101	3503	No
172	GOM_NL__2PRFIN20021031_191246_000000652010_00443_03503_9343.N1	31-OCT-2002 19:12:46	Dark	64.500	2	Alp Car	-0.73600	7000.0	129	3503	No
173	GOM_NL__2PRFIN20021031_191827_000000452010_00443_03503_9344.N1	31-OCT-2002 19:18:27	Dark	45.000	143	Alp Hyi	2.8570	7200.0	90	3503	No
174	GOM_NL__2PRFIN20021031_191951_000000492010_00443_03503_9345.N1	31-OCT-2002 19:19:51	Dark	48.500	9	Alp Eri	0.45300	24000.	97	3503	No
175	GOM_NL__2PRFIN20021031_204533_000000482010_00444_03504_9341.N1	31-OCT-2002 20:45:33	Dark	48.000	91	Kap Vel	2.4900	26000.	96	3504	No
176	GOM_NL__2PRFIN20021031_204812_000000452010_00444_03504_9342.N1	31-OCT-2002 20:48:12	Dark	45.000	29	Bet Car	1.6720	10200.	90	3504	No
177	GOM_NL__2PRFIN20021031_205323_000000602010_00444_03504_9343.N1	31-OCT-2002 20:53:23	Dark	60.000	2	Alp Car	-0.73600	7000.0	120	3504	No
178	GOM_NL__2PRFIN20021031_205904_000000482010_00444_03504_9344.N1	31-OCT-2002 20:59:04	Dark	47.500	143	Alp Hyi	2.8570	7200.0	95	3504	No
179	GOM_NL__2PRFIN20021031_210027_000000532010_00444_03504_9345.N1	31-OCT-2002 21:00:27	Dark	52.500	9	Alp Eri	0.45300	24000.	105	3504	No
180	GOM_NL__2PRFIN20021031_222610_000000482010_00445_03505_9341.N1	31-OCT-2002 22:26:10	Dark	48.000	91	Kap Vel	2.4900	26000.	96	3505	No
181	GOM_NL__2PRFIN20021031_222848_000000532010_00445_03505_9342.N1	31-OCT-2002 22:28:48	Dark	52.500	29	Bet Car	1.6720	10200.	105	3505	No
182	GOM_NL__2PRFIN20021031_223359_000000632010_00445_03505_9343.N1	31-OCT-2002 22:33:59	Dark	62.500	2	Alp Car	-0.73600	7000.0	125	3505	No
183	GOM_NL__2PRFIN20021031_223940_000000462010_00445_03505_9344.N1	31-OCT-2002 22:39:40	Dark	46.000	143	Alp Hyi	2.8570	7200.0	92	3505	No
184	GOM_NL__2PRFIN20021031_224103_000000492010_00445_03505_2809.N1	31-OCT-2002 22:41:03	Dark	49.000	9	Alp Eri	0.45300	24000.	98	3505	No
185	GOM_NL__2PRFIN20021031_224419_000000492010_00445_03505_2810.N1	31-OCT-2002 22:44:19	Straylight	49.000	157	The1Eri	2.9060	9300.0	98	3505	No
186	GOM_NL__2PRFIN20021031_224635_000002172010_00445_03505_2811.N1	31-OCT-2002 22:46:35	Straylight	217.00	47	2Bet CMa	1.9760	28000.	434	3505	No
187	GOM_NL__2PRFIN20021031_225223_000000512010_00445_03505_2812.N1	31-OCT-2002 22:52:23	Straylight	51.000	52	16Bet Cet	2.0370	4500.0	102	3505	No
188	GOM_NL__2PRFIN20021031_225849_000000662010_00445_03505_2813.N1	31-OCT-2002 22:58:49	Tw_i_and_stray	66.000	94	92Alp Cet	2.5260	3100.0	132	3505	No
189	GOM_NL__2PRFIN20021031_230154_000000432010_00445_03505_2814.N1	31-OCT-2002 23:01:54	Bright	43.000	140	88Gam Peg	2.8340	26000.	86	3505	No
190	GOM_NL__2PRFIN20021031_230409_000000522010_00445_03505_2815.N1	31-OCT-2002 23:04:09	Bright	51.500	50	13Alp Ari	2.0070	4250.0	103	3505	No
191	GOM_NL__2PRFIN20021031_230713_000000472010_00445_03505_2816.N1	31-OCT-2002 23:07:13	Bright	46.500	53	43Bet And	2.0480	3300.0	93	3505	No
192	GOM_NL__2PRFIN20021031_230940_000000502010_00445_03505_2817.N1	31-OCT-2002 23:09:40	Bright	50.000	73	57Gam1And	2.2600	13100.	100	3505	No
193	GOM_NL__2PRFIN20021031_231307_000000462010_00445_03505_2818.N1	31-OCT-2002 23:13:07	Bright	45.500	68	18Alp Cas	2.2250	4500.0	91	3505	No
194	GOM_NL__2PRFIN20021031_231731_000001082010_00445_03505_2819.N1	31-OCT-2002 23:17:31	Bright	107.50	114	3lot Aur	2.6930	4600.0	215	3505	No
195	GOM_NL__2PRFIN20021031_232222_000000452010_00445_03505_2820.N1	31-OCT-2002 23:22:22	Bright	44.500	49	1Alp UMi	1.9900	6300.0	89	3505	No
196	GOM_NL__2PRFIN20021031_232613_000000412010_00445_03505_2821.N1	31-OCT-2002 23:26:13	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	3505	No
197	GOM_NL__2PRFIN20021031_233031_000000472010_00445_03505_2822.N1	31-OCT-2002 23:30:31	Bright	47.000	36	50Alp UMa	1.8000	6300.0	94	3505	No
198	GOM_NL__2PRFIN20021031_233206_000000492010_00445_03505_2823.N1	31-OCT-2002 23:32:06	Bright	48.500	82	48Bet UMa	2.3650	10600.	97	3505	No
199	GOM_NL__2PRFIN20021031_233547_000000472010_00445_03505_2824.N1	31-OCT-2002 23:35:47	Bright	47.000	174	52Psi UMa	3.0040	4400.0	94	3505	No
200	GOM_NL__2PRFIN20021031_234232_000002552010_00445_03505_2825.N1	31-OCT-2002 23:42:32	Tw_i_and_stray	255.00	24	66Alp Gem	1.5800	10200.	510	3505	No
201	GOM_NL__2PRFIN20021031_234733_000000652010_00445_03505_2826.N1	31-OCT-2002 23:47:33	Bright	65.000	22	32Alp Leo	1.3600	15200.	130	3505	No
202	GOM_NL__2PRFIN20021031_235653_000000782010_00445_03505_2827.N1	31-OCT-2002 23:56:53	Dark	77.500	48	30Alp Hya	1.9770	4100.0	155	3505	No

### 3. Quality information per product

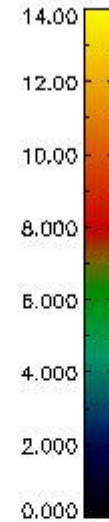
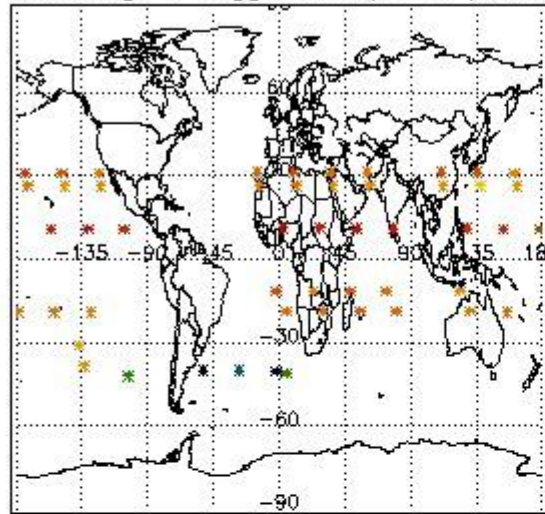
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

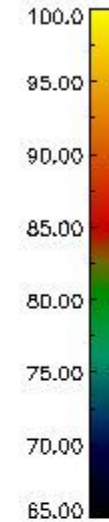
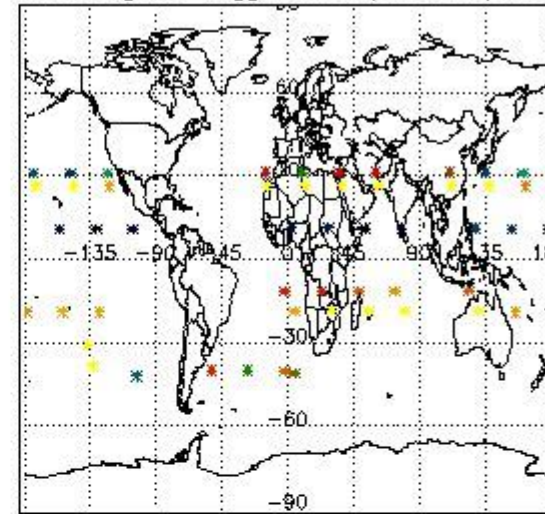


3.2 Plot quality information per product (world map)

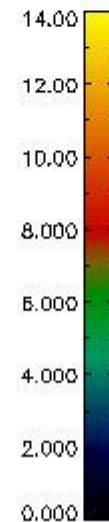
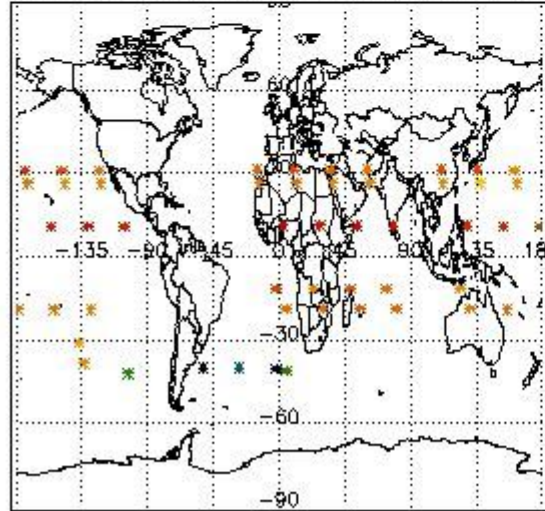
Percentage of flagged data per O3 profile



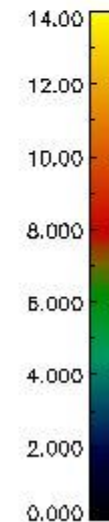
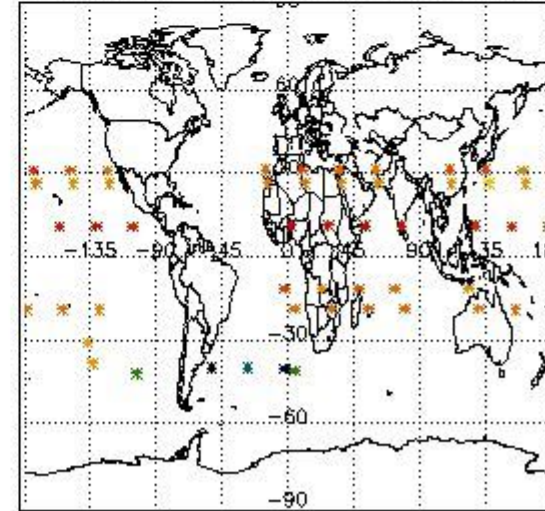
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

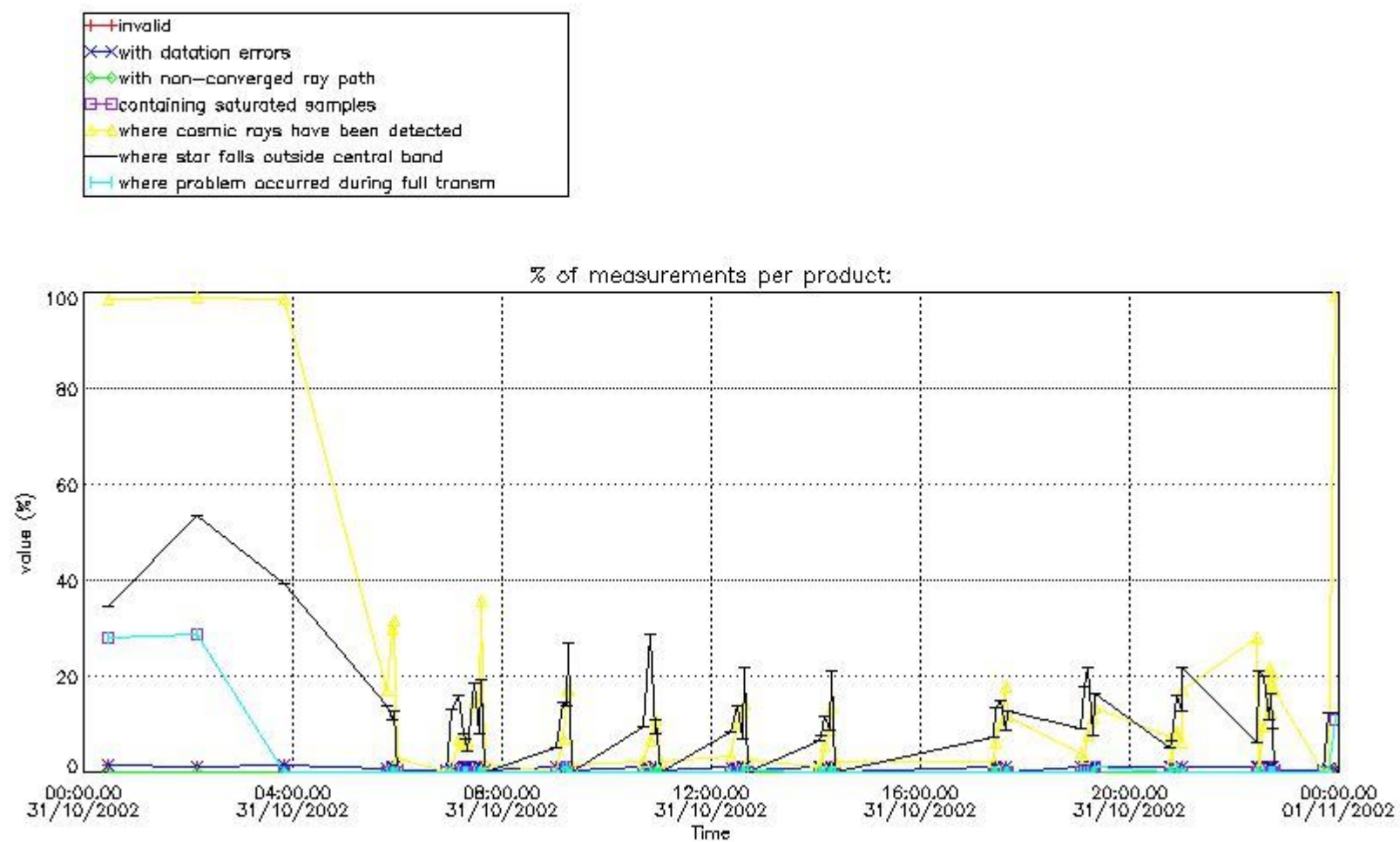


#### 4. Level 1 quality information per product

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.

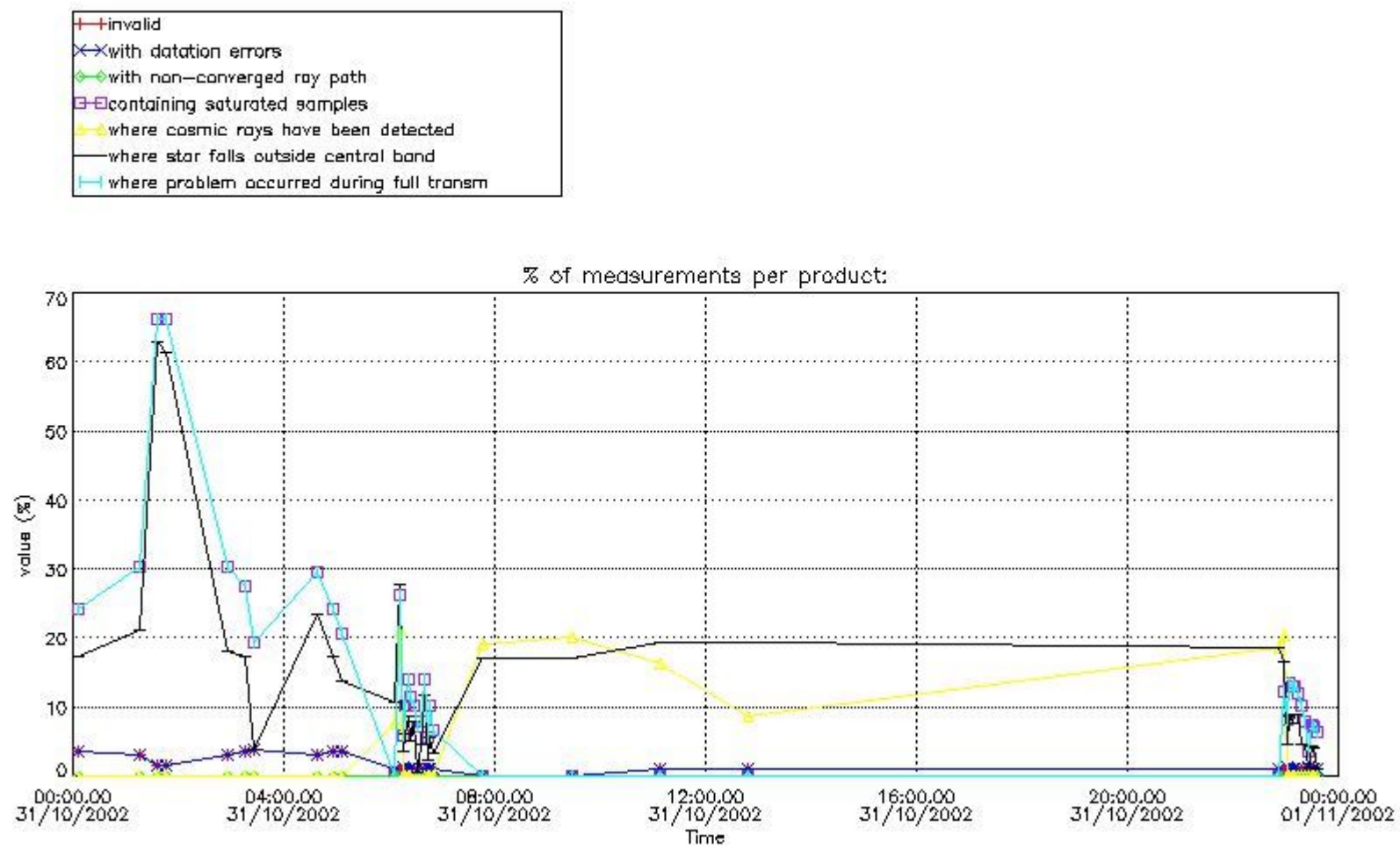
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

###### 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

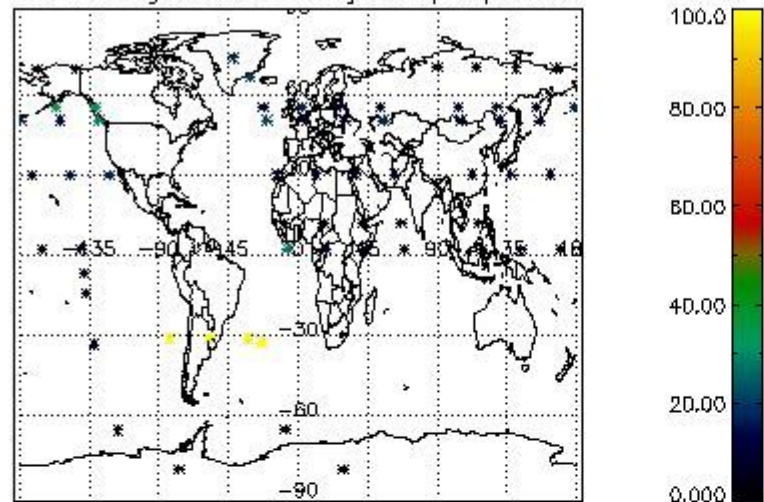




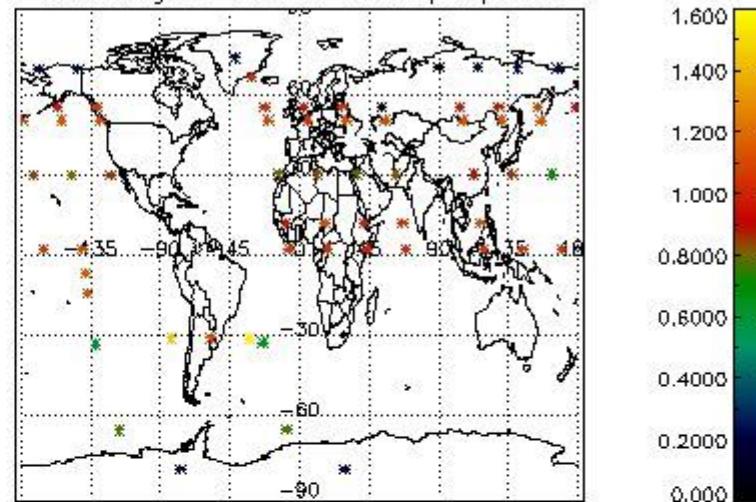
4.2 Plot quality information per product coming from level 1b processing (world map)

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

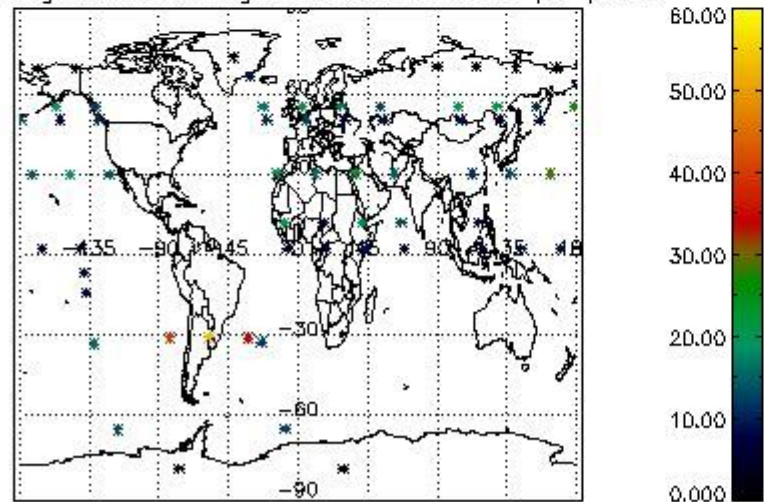
Percentage of cosmic ray hits per profile



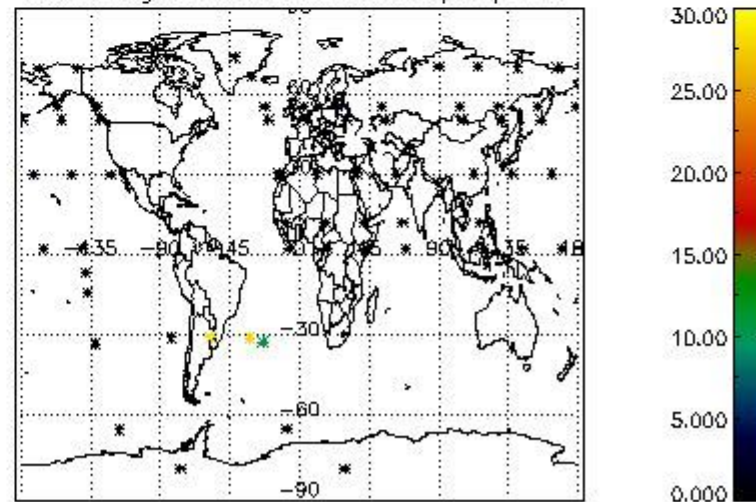
Percentage of datation errors per profile



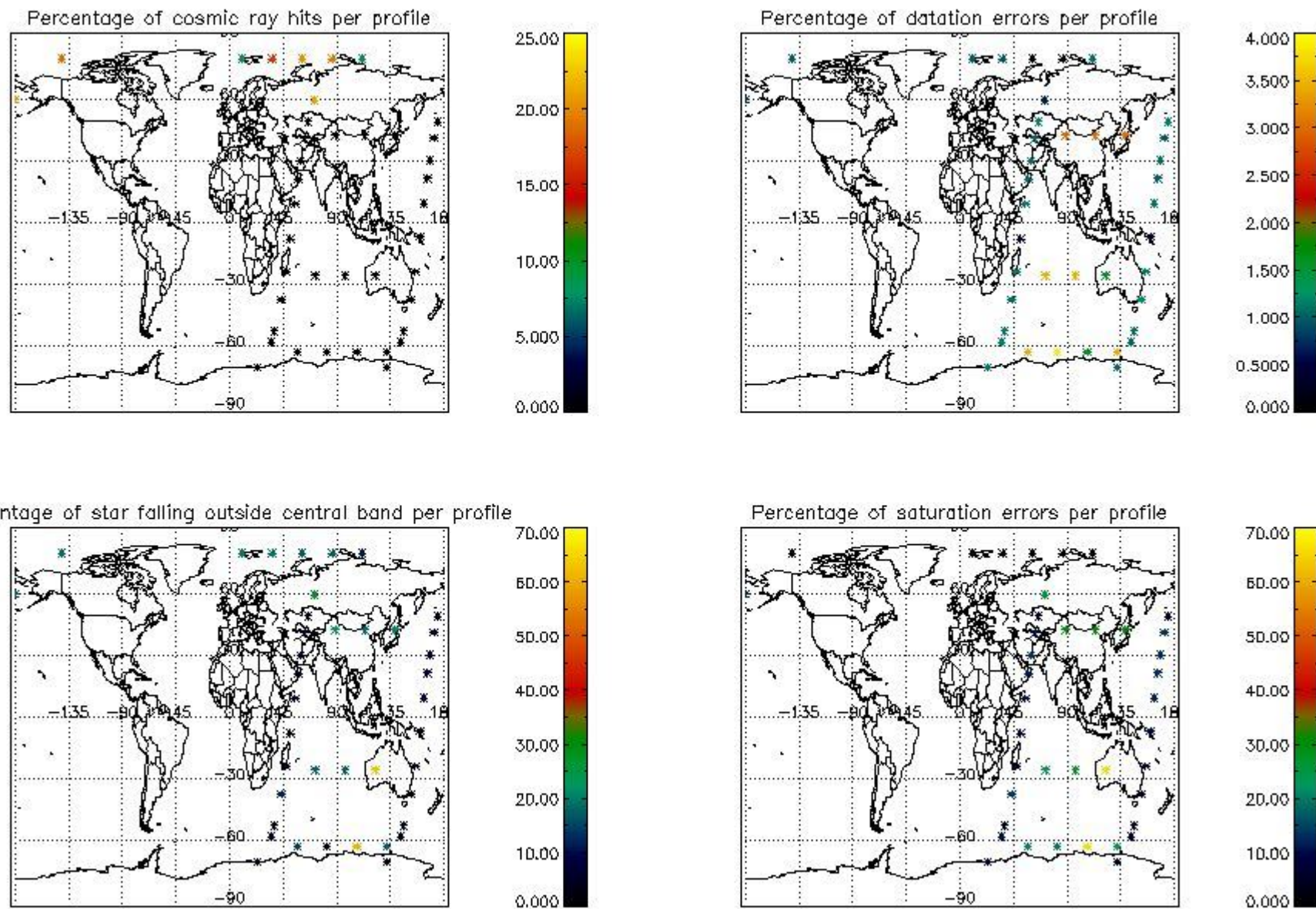
Percentage of star falling outside central band per profile



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

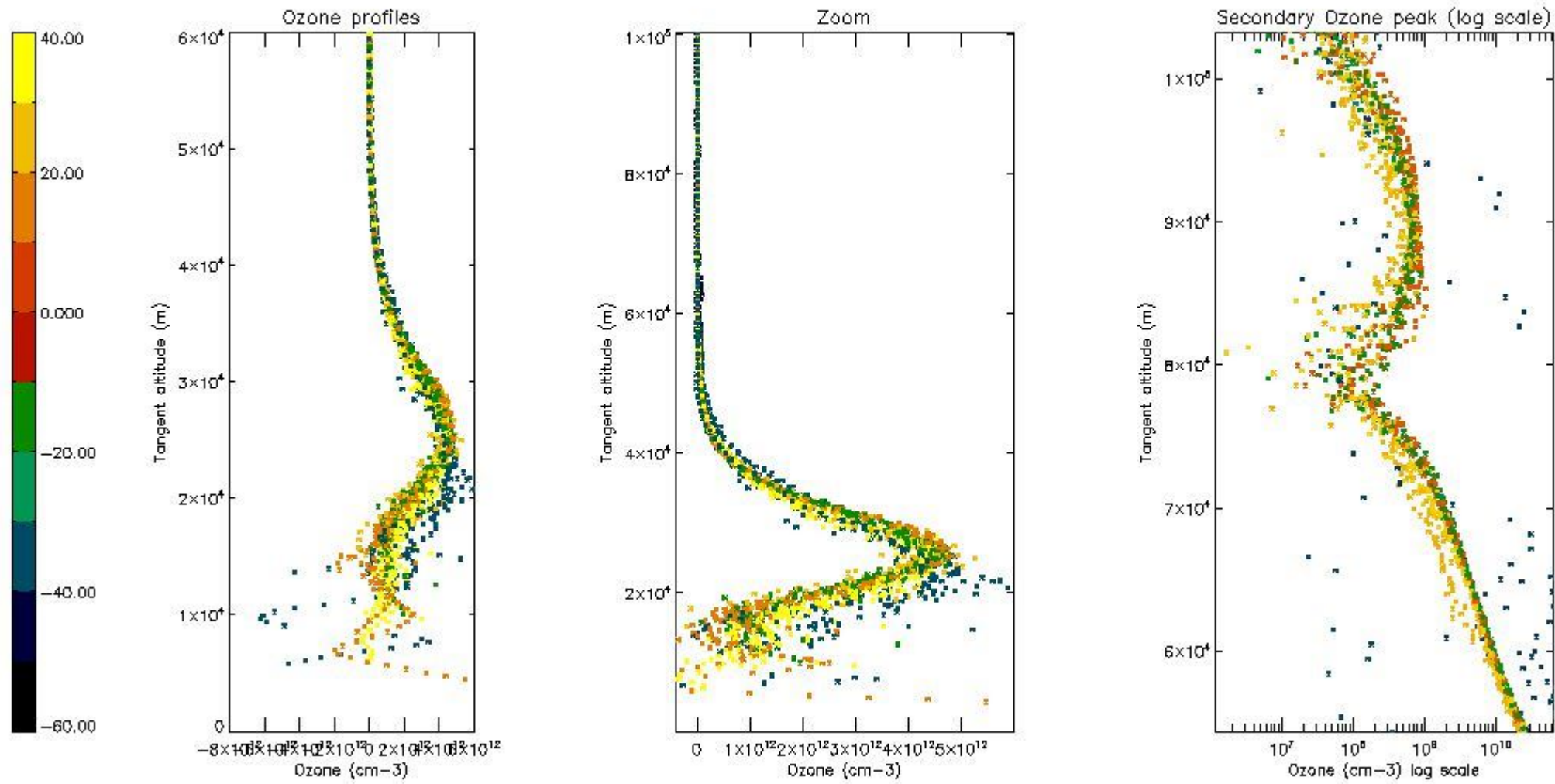
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	39
STD < 20	23

STD < 10	20
STD < 5	15

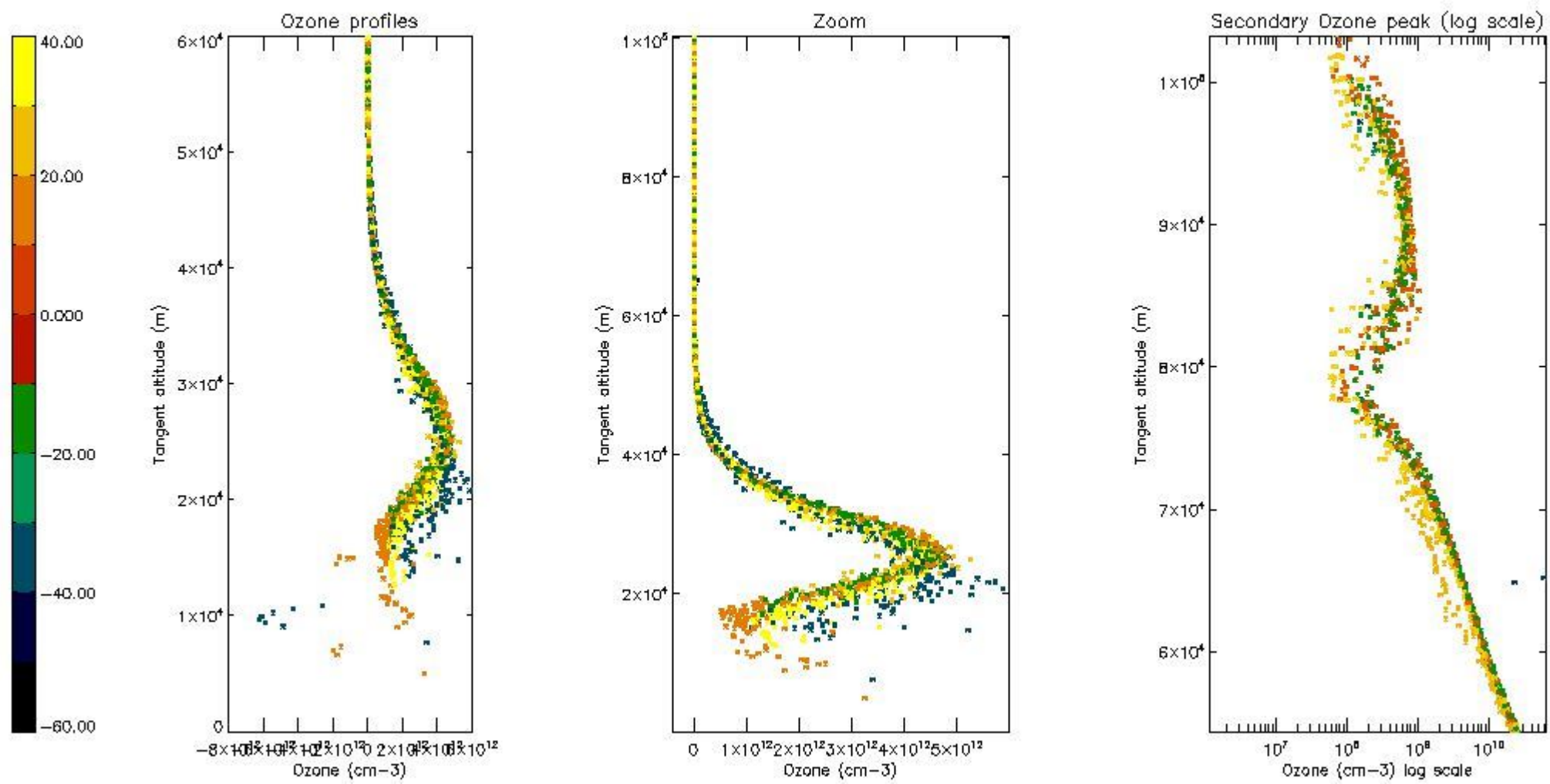
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



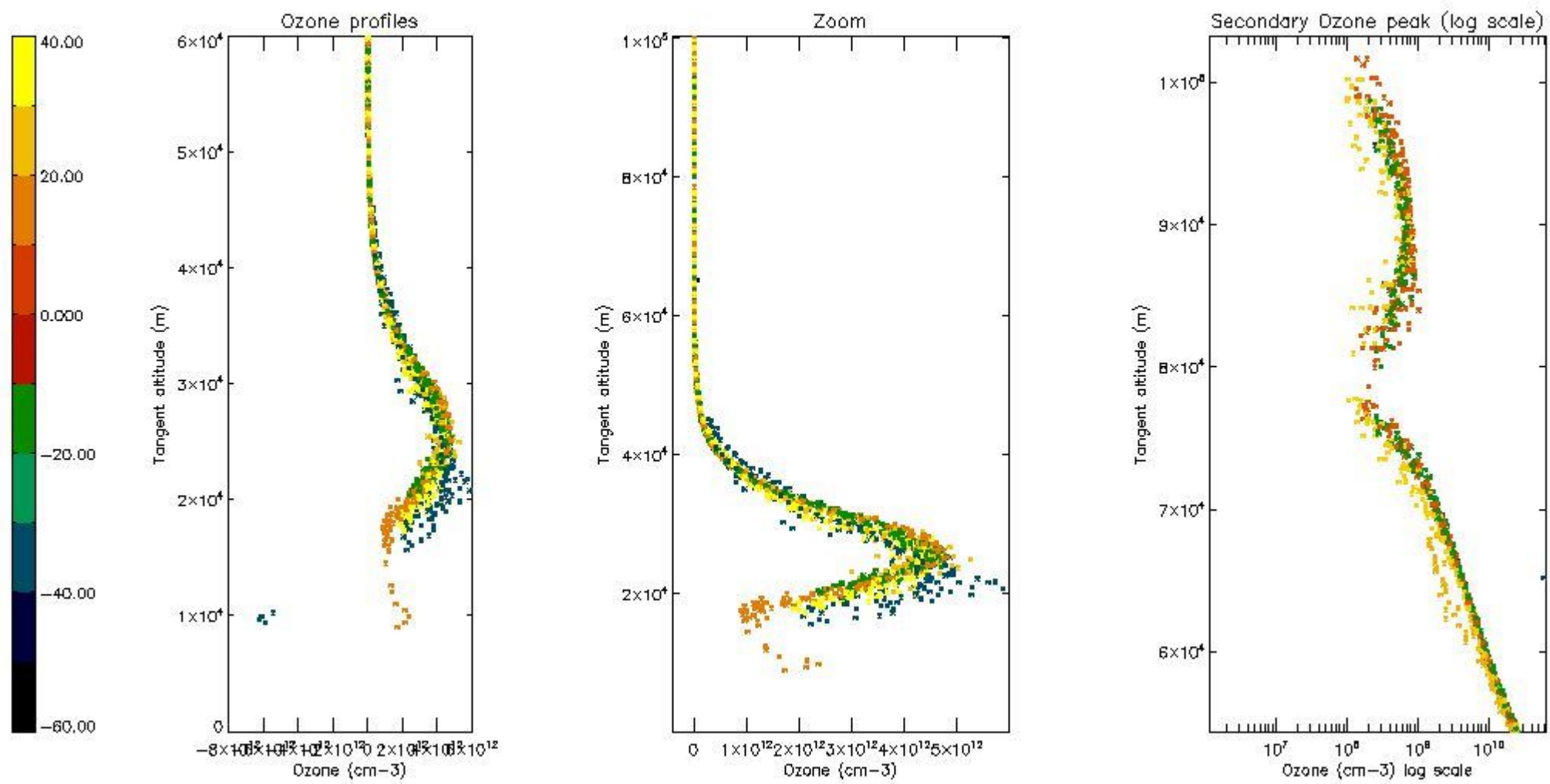
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



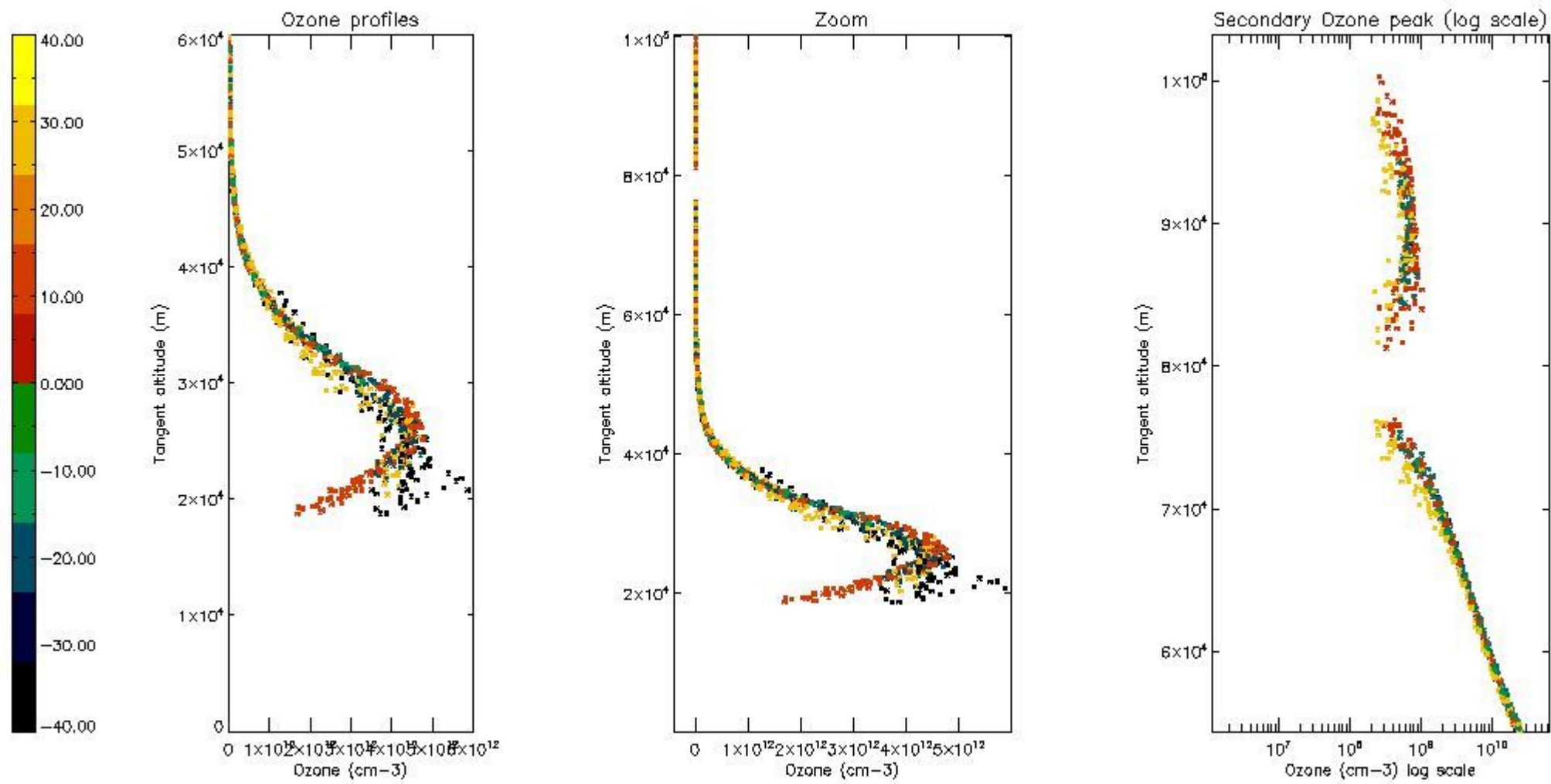
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



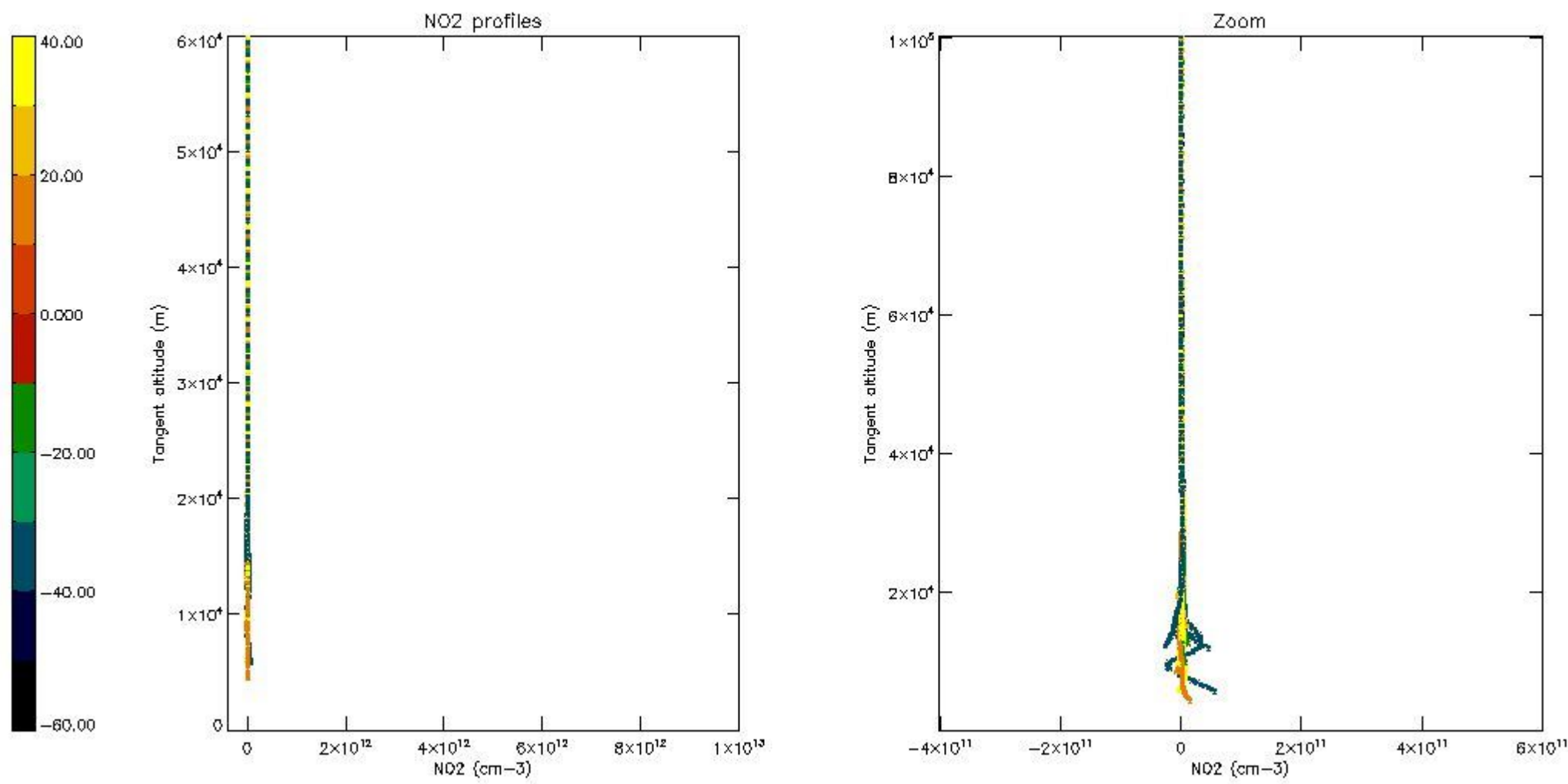
*5.5 Plot ozone profiles where  $STD < 5\%$  (dark without errors)*

The colorbar represents the latitude.



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

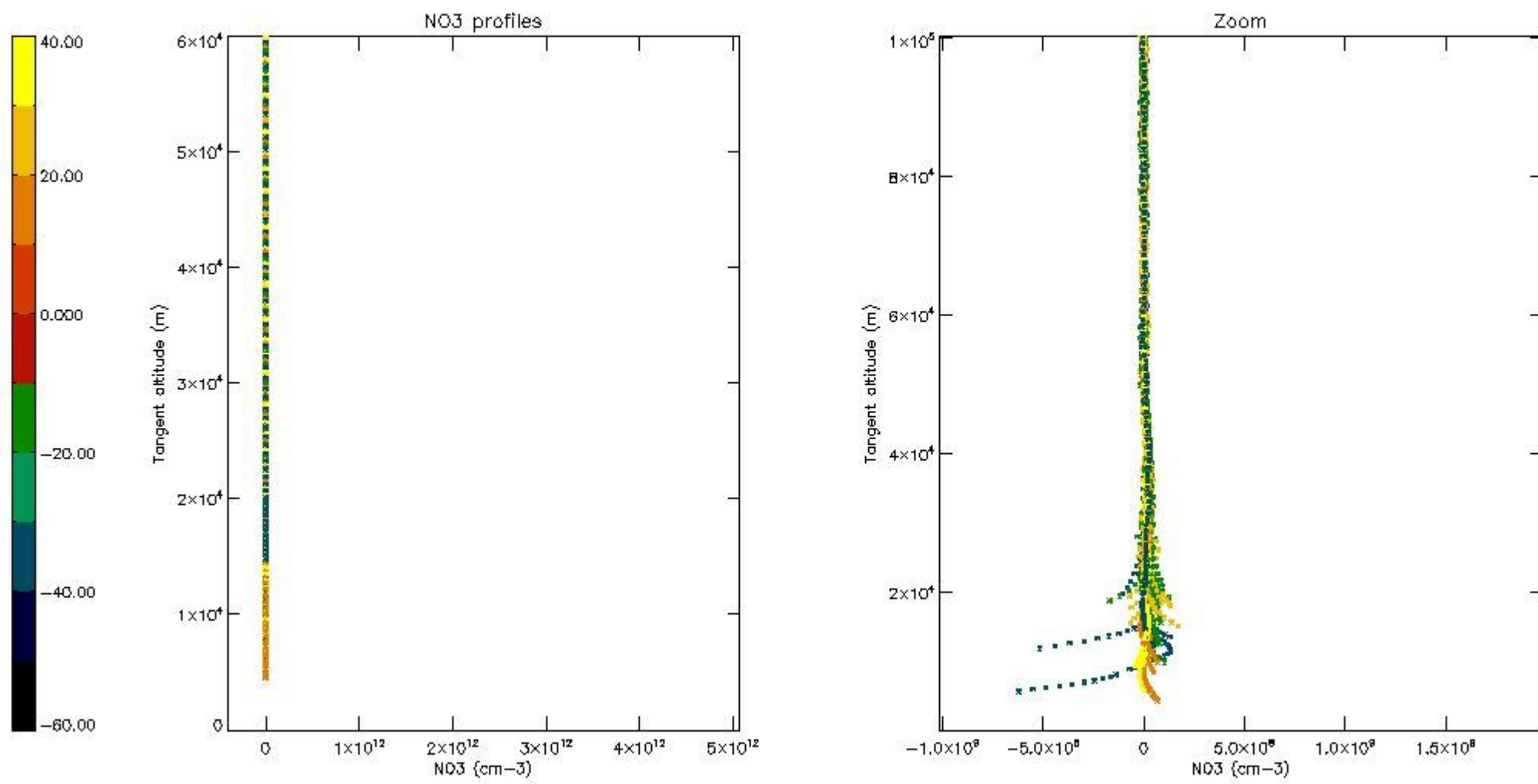
The colorbar represents the latitude.



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

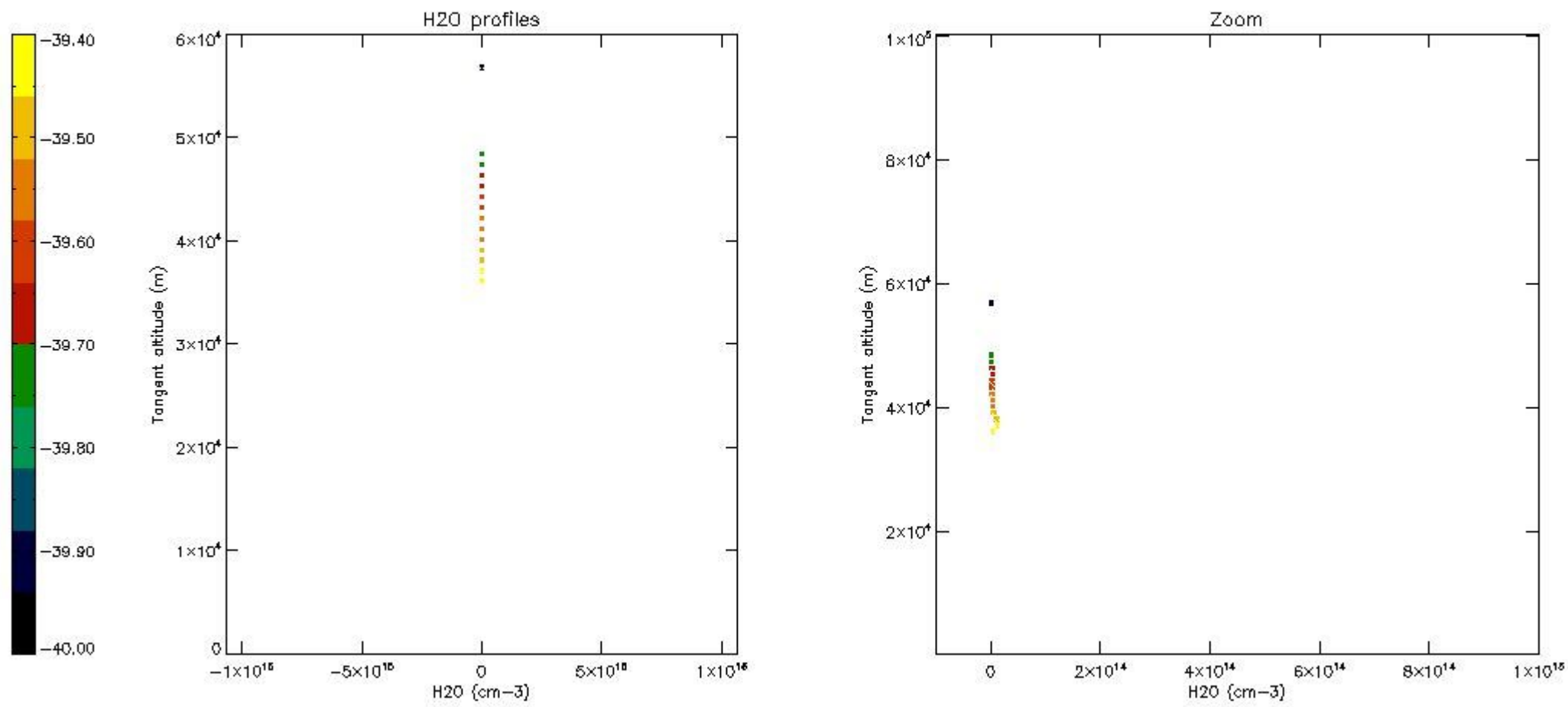
The colorbar represents the latitude.





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_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	31-OCT-2002 00:02:40
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	31-OCT-2002 00:02:40
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	31-OCT-2002 00:02:40

# GOMOS Level 2 Daily Report

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

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

Item	Value
Time of report generation	17APR2013 19:50:48
Data source version	GOMOS/6.01
Start time of products	31-10-2002 (31OCT2002 00:00:00)
Stop time of products	01-11-2002 (01NOV2002 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	202
Nb of prods with errors	99

## 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__2PRFIN20021031_000240_000000172010_00431_03491_2277.N1	31-OCT-2002 00:02:40	Dark	17.000	36	50Alp UMa	1.8000	6300.0	34	3491	Yes
2	GOM_NL__2PRFIN20021031_000411_000000162010_00431_03491_2278.N1	31-OCT-2002 00:04:11	Dark	15.500	32	77Eps UMa	1.7630	11000.	31	3491	Yes
3	GOM_NL__2PRFIN20021031_000507_000000152010_00431_03491_2279.N1	31-OCT-2002 00:05:07	Bright	14.500	87	64Gam UMa	2.4330	11000.	29	3491	No
4	GOM_NL__2PRFIN20021031_000757_000000152010_00431_03491_2280.N1	31-OCT-2002 00:07:57	Dark	14.500	174	52Psi UMa	3.0040	4400.0	29	3491	Yes
5	GOM_NL__2PRFIN20021031_001516_000000162010_00431_03491_2281.N1	31-OCT-2002 00:15:16	Dark	15.500	96	68Del Leo	2.5600	9300.0	31	3491	Yes
6	GOM_NL__2PRFIN20021031_001702_000002552010_00431_03491_2282.N1	31-OCT-2002 00:17:02	Dark	255.00	24	66Alp Gem	1.5800	10200.	510	3491	Yes
7	GOM_NL__2PRFIN20021031_002857_000000322010_00431_03491_2283.N1	31-OCT-2002 00:28:57	Dark	32.000	48	30Alp Hya	1.9770	4100.0	64	3491	No
8	GOM_NL__2PRFIN20021031_003503_000000172010_00431_03491_2284.N1	31-OCT-2002 00:35:03	Dark	17.000	113	Mu Vel	2.6920	5000.0	34	3491	Yes
9	GOM_NL__2PRFIN20021031_003617_000000152010_00431_03491_2285.N1	31-OCT-2002 00:36:17	Dark	15.000	129	Del Cru	2.7930	26000.	30	3491	Yes
10	GOM_NL__2PRFIN20021031_003731_000000322010_00431_03491_2286.N1	31-OCT-2002 00:37:31	Dark	31.500	65	Lam Vel	2.2040	4400.0	63	3491	Yes
11	GOM_NL__2PRFIN20021031_003846_000000162010_00432_03492_2254.N1	31-OCT-2002 00:38:46	Dark	15.500	91	Kap Vel	2.4900	26000.	31	3492	Yes
12	GOM_NL__2PRFIN20021031_004008_000000272010_00432_03492_2255.N1	31-OCT-2002 00:40:08	Dark	26.500	46	Del Vel	1.9540	10600.	53	3492	Yes
13	GOM_NL__2PRFIN20021031_004452_000000282010_00432_03492_2256.N1	31-OCT-2002 00:44:52	Dark	28.000	117	Pi Pup	2.7060	3800.0	56	3492	Yes
14	GOM_NL__2PRFIN20021031_004637_000000232010_00432_03492_2257.N1	31-OCT-2002 00:46:37	Dark	23.000	2	Alp Car	-0.73600	7000.0	46	3492	Yes
15	GOM_NL__2PRFIN20021031_004809_000000402010_00432_03492_2258.N1	31-OCT-2002 00:48:09	Dark	40.000	23	21Eps CMa	1.5020	26000.	80	3492	Yes
16	GOM_NL__2PRFIN20021031_005219_000000162010_00432_03492_2259.N1	31-OCT-2002 00:52:19	Dark	16.000	143	Alp Hyi	2.8570	7200.0	32	3492	Yes
17	GOM_NL__2PRFIN20021031_005342_000000262010_00432_03492_2260.N1	31-OCT-2002 00:53:42	Dark	25.500	9	Alp Eri	0.45300	24000.	51	3492	Yes
18	GOM_NL__2PRFIN20021031_005659_000000192010_00432_03492_2261.N1	31-OCT-2002 00:56:59	Dark	18.500	157	The1Eri	2.9060	9300.0	37	3492	Yes
19	GOM_NL__2PRFIN20021031_005828_000000222010_00432_03492_2262.N1	31-OCT-2002 00:58:28	Dark	22.000	84	Alp Phe	2.3970	4500.0	44	3492	Yes
20	GOM_NL__2PRFIN20021031_010035_000000482010_00432_03492_2263.N1	31-OCT-2002 01:00:35	Dark	47.500	139	9Bet Lep	2.8330	5600.0	95	3492	Yes
21	GOM_NL__2PRFIN20021031_010257_000000602010_00432_03492_2264.N1	31-OCT-2002 01:02:57	Dark	59.500	101	11Alp Lep	2.5820	7000.0	119	3492	Yes
22	GOM_NL__2PRFIN20021031_010529_000000362010_00432_03492_2265.N1	31-OCT-2002 01:05:29	Dark	35.500	165	34Gam Eri	2.9500	3200.0	71	3492	Yes
23	GOM_NL__2PRFIN20021031_011145_000000312010_00432_03492_2266.N1	31-OCT-2002 01:11:45	Dark	30.500	94	92Alp Cet	2.5260	3100.0	61	3492	Yes
24	GOM_NL__2PRFIN20021031_011433_000000132010_00432_03492_2267.N1	31-OCT-2002 01:14:33	Dark	13.000	140	88Gam Peg	2.8340	26000.	26	3492	Yes
25	GOM_NL__2PRFIN20021031_011600_000000172010_00432_03492_2268.N1	31-OCT-2002 01:16:00	Bright	16.500	105	6Bet Ari	2.6450	8900.0	33	3492	No
26	GOM_NL__2PRFIN20021031_011659_000000202010_00432_03492_2269.N1	31-OCT-2002 01:16:59	Dark	19.500	50	13Alp Ari	2.0070	4250.0	39	3492	Yes
27	GOM_NL__2PRFIN20021031_011825_000000162010_00432_03492_2270.N1	31-OCT-2002 01:18:25	Dark	15.500	58	21Alp And	2.0730	11000.	31	3492	Yes
28	GOM_NL__2PRFIN20021031_011957_000000182010_00432_03492_2271.N1	31-OCT-2002 01:19:57	Dark	18.000	53	43Bet And	2.0480	3300.0	36	3492	Yes
29	GOM_NL__2PRFIN20021031_012230_000000182010_00432_03492_2272.N1	31-OCT-2002 01:22:30	Dark	18.000	73	57Gam1And	2.2600	13100.	36	3492	Yes
30	GOM_NL__2PRFIN20021031_012401_000000182010_00432_03492_2273.N1	31-OCT-2002 01:24:01	Dark	17.500	79	26Bet Per	2.3100	13100.	35	3492	Yes
31	GOM_NL__2PRFIN20021031_012549_000000132010_00432_03492_2274.N1	31-OCT-2002 01:25:49	Dark	12.500	68	18Alp Cas	2.2250	4500.0	25	3492	Yes
32	GOM_NL__2PRFIN20021031_012702_000000122010_00432_03492_2275.N1	31-OCT-2002 01:27:02	Dark	12.000	76	27Gam Cas	2.3000	30000.	24	3492	Yes
33	GOM_NL__2PRFIN20021031_013023_000000152010_00432_03492_2276.N1	31-OCT-2002 01:30:23	Dark	15.000	89	5Alp Cep	2.4510	8000.0	30	3492	Yes
34	GOM_NL__2PRFIN20021031_013506_000000312010_00432_03492_2277.N1	31-OCT-2002 01:35:06	Bright	31.000	49	1Alp UMi	1.9900	6300.0	62	3492	No
35	GOM_NL__2PRFIN20021031_013852_000000172010_00432_03492_2278.N1	31-OCT-2002 01:38:52	Dark	17.000	60	7Bet UMi	2.0810	3950.0	34	3492	Yes
36	GOM_NL__2PRFIN20021031_014317_000000162010_00432_03492_2279.N1	31-OCT-2002 01:43:17	Dark	16.000	36	50Alp UMa	1.8000	6300.0	32	3492	Yes
37	GOM_NL__2PRFIN20021031_014447_000000142010_00432_03492_2280.N1	31-OCT-2002 01:44:47	Dark	14.000	32	77Eps UMa	1.7630	11000.	28	3492	Yes
38	GOM_NL__2PRFIN20021031_014543_000000312010_00432_03492_2281.N1	31-OCT-2002 01:45:43	Bright	31.000	87	64Gam UMa	2.4330	11000.	62	3492	No
39	GOM_NL__2PRFIN20021031_014833_000000152010_00432_03492_2282.N1	31-OCT-2002 01:48:33	Dark	15.000	174	52Psi UMa	3.0040	4400.0	30	3492	Yes
40	GOM_NL__2PRFIN20021031_015553_000000152010_00432_03492_2283.N1	31-OCT-2002 01:55:53	Dark	15.000	96	68Del Leo	2.5600	9300.0	30	3492	Yes
41	GOM_NL__2PRFIN20021031_015741_000002552010_00432_03492_2284.N1	31-OCT-2002 01:57:41	Dark	255.00	24	66Alp Gem	1.5800	10200.	510	3492	Yes
42	GOM_NL__2PRFIN20021031_020934_000000452010_00432_03492_2285.N1	31-OCT-2002 02:09:34	Dark	45.000	48	30Alp Hya	1.9770	4100.0	90	3492	No

43	GOM_NL__2PRFIN20021031_021443_000000152010_00432_03492_2286.N1	31-OCT-2002 02:14:43	Dark	14.500	99	Del Cen	2.5750	26000.	29	3492	Yes
44	GOM_NL__2PRFIN20021031_021540_000000172010_00432_03492_2287.N1	31-OCT-2002 02:15:40	Dark	16.500	113	Mu Vel	2.6920	5000.0	33	3492	Yes
45	GOM_NL__2PRFIN20021031_021653_000000152010_00432_03492_2288.N1	31-OCT-2002 02:16:53	Dark	14.500	129	Del Cru	2.7930	26000.	29	3492	Yes
46	GOM_NL__2PRFIN20021031_021808_000000222010_00432_03492_2289.N1	31-OCT-2002 02:18:08	Dark	21.500	65	Lam Vel	2.2040	4400.0	43	3492	Yes
47	GOM_NL__2PRFIN20021031_021923_000000172010_00433_03493_2252.N1	31-OCT-2002 02:19:23	Dark	17.000	91	Kap Vel	2.4900	26000.	34	3493	Yes
48	GOM_NL__2PRFIN20021031_022044_000000192010_00433_03493_2253.N1	31-OCT-2002 02:20:44	Dark	18.500	46	Del Vel	1.9540	10600.	37	3493	Yes
49	GOM_NL__2PRFIN20021031_022529_000000342010_00433_03493_2254.N1	31-OCT-2002 02:25:29	Dark	33.500	117	Pi Pup	2.7060	3800.0	67	3493	Yes
50	GOM_NL__2PRFIN20021031_022713_000000332010_00433_03493_2255.N1	31-OCT-2002 02:27:13	Dark	32.500	2	Alp Car	-0.73600	7000.0	65	3493	Yes
51	GOM_NL__2PRFIN20021031_022846_000000472010_00433_03493_2256.N1	31-OCT-2002 02:28:46	Dark	46.500	23	21Eps CMa	1.5020	26000.	93	3493	Yes
52	GOM_NL__2PRFIN20021031_023255_000000162010_00433_03493_2257.N1	31-OCT-2002 02:32:55	Dark	16.000	143	Alp Hyi	2.8570	7200.0	32	3493	Yes
53	GOM_NL__2PRFIN20021031_023418_000000182010_00433_03493_2258.N1	31-OCT-2002 02:34:18	Dark	18.000	9	Alp Eri	0.45300	24000.	36	3493	Yes
54	GOM_NL__2PRFIN20021031_023735_000000182010_00433_03493_2259.N1	31-OCT-2002 02:37:35	Dark	18.000	157	The1Eri	2.9060	9300.0	36	3493	Yes
55	GOM_NL__2PRFIN20021031_023904_000000232010_00433_03493_2260.N1	31-OCT-2002 02:39:04	Dark	23.000	84	Alp Phe	2.3970	4500.0	46	3493	Yes
56	GOM_NL__2PRFIN20021031_024111_000000532010_00433_03493_2261.N1	31-OCT-2002 02:41:11	Dark	52.500	139	9Bet Lep	2.8330	5600.0	105	3493	Yes
57	GOM_NL__2PRFIN20021031_024333_000000562010_00433_03493_2262.N1	31-OCT-2002 02:43:33	Dark	56.000	101	11Alp Lep	2.5820	7000.0	112	3493	Yes
58	GOM_NL__2PRFIN20021031_025220_000000312010_00433_03493_2263.N1	31-OCT-2002 02:52:20	Dark	30.500	94	92Alp Cet	2.5260	3100.0	61	3493	Yes
59	GOM_NL__2PRFIN20021031_025509_000000162010_00433_03493_2264.N1	31-OCT-2002 02:55:09	Dark	15.500	140	88Gam Peg	2.8340	26000.	31	3493	Yes
60	GOM_NL__2PRFIN20021031_025636_000000172010_00433_03493_2265.N1	31-OCT-2002 02:56:36	Bright	16.500	105	6Bet Ari	2.6450	8900.0	33	3493	No
61	GOM_NL__2PRFIN20021031_025734_000000202010_00433_03493_2266.N1	31-OCT-2002 02:57:34	Dark	19.500	50	13Alp Ari	2.0070	4250.0	39	3493	Yes
62	GOM_NL__2PRFIN20021031_025901_000000152010_00433_03493_2267.N1	31-OCT-2002 02:59:01	Dark	14.500	58	21Alp And	2.0730	11000.	29	3493	Yes
63	GOM_NL__2PRFIN20021031_030033_000000162010_00433_03493_2268.N1	31-OCT-2002 03:00:33	Dark	16.000	53	43Bet And	2.0480	3300.0	32	3493	Yes
64	GOM_NL__2PRFIN20021031_030305_000000172010_00433_03493_2269.N1	31-OCT-2002 03:03:05	Dark	16.500	73	57Gam1And	2.2600	13100.	33	3493	Yes
65	GOM_NL__2PRFIN20021031_030436_000000182010_00433_03493_2270.N1	31-OCT-2002 03:04:36	Dark	18.000	79	26Bet Per	2.3100	13100.	36	3493	Yes
66	GOM_NL__2PRFIN20021031_030625_000000162010_00433_03493_2271.N1	31-OCT-2002 03:06:25	Dark	15.500	68	18Alp Cas	2.2250	4500.0	31	3493	Yes
67	GOM_NL__2PRFIN20021031_030737_000000142010_00433_03493_2272.N1	31-OCT-2002 03:07:37	Dark	14.000	76	27Gam Cas	2.3000	30000.	28	3493	Yes
68	GOM_NL__2PRFIN20021031_031059_000000152010_00433_03493_2273.N1	31-OCT-2002 03:10:59	Dark	15.000	89	5Alp Cep	2.4510	8000.0	30	3493	Yes
69	GOM_NL__2PRFIN20021031_031542_000000152010_00433_03493_2274.N1	31-OCT-2002 03:15:42	Bright	14.500	49	1Alp UMi	1.9900	6300.0	29	3493	No
70	GOM_NL__2PRFIN20021031_031928_000000172010_00433_03493_2275.N1	31-OCT-2002 03:19:28	Dark	17.000	60	7Bet UMi	2.0810	3950.0	34	3493	Yes
71	GOM_NL__2PRFIN20021031_032352_000000182010_00433_03493_2276.N1	31-OCT-2002 03:23:52	Dark	18.000	36	50Alp UMa	1.8000	6300.0	36	3493	Yes
72	GOM_NL__2PRFIN20021031_032522_000000152010_00433_03493_2277.N1	31-OCT-2002 03:25:22	Dark	14.500	32	77Eps UMa	1.7630	11000.	29	3493	Yes
73	GOM_NL__2PRFIN20021031_032619_000000132010_00433_03493_2278.N1	31-OCT-2002 03:26:19	Bright	13.000	87	64Gam UMa	2.4330	11000.	26	3493	No
74	GOM_NL__2PRFIN20021031_032908_000000162010_00433_03493_2279.N1	31-OCT-2002 03:29:08	Dark	16.000	174	52Psi UMa	3.0040	4400.0	32	3493	Yes
75	GOM_NL__2PRFIN20021031_033629_000000162010_00433_03493_2280.N1	31-OCT-2002 03:36:29	Dark	15.500	96	68Del Leo	2.5600	9300.0	31	3493	Yes
76	GOM_NL__2PRFIN20021031_033821_0000002552010_00433_03493_2281.N1	31-OCT-2002 03:38:21	Dark	255.00	24	66Alp Gem	1.5800	10200.	510	3493	Yes
77	GOM_NL__2PRFIN20021031_035011_000000352010_00433_03493_2282.N1	31-OCT-2002 03:50:11	Dark	34.500	48	30Alp Hya	1.9770	4100.0	69	3493	No
78	GOM_NL__2PRFIN20021031_035518_000000192010_00433_03493_2283.N1	31-OCT-2002 03:55:18	Dark	19.000	99	Del Cen	2.5750	26000.	38	3493	Yes
79	GOM_NL__2PRFIN20021031_035616_000000212010_00433_03493_2284.N1	31-OCT-2002 03:56:16	Dark	20.500	113	Mu Vel	2.6920	5000.0	41	3493	Yes
80	GOM_NL__2PRFIN20021031_035728_000000172010_00433_03493_2285.N1	31-OCT-2002 03:57:28	Dark	17.000	129	Del Cru	2.7930	26000.	34	3493	Yes
81	GOM_NL__2PRFIN20021031_035844_000000312010_00433_03493_2286.N1	31-OCT-2002 03:58:44	Dark	30.500	65	Lam Vel	2.2040	4400.0	61	3493	Yes
82	GOM_NL__2PRFIN20021031_035959_000000172010_00434_03494_9300.N1	31-OCT-2002 03:59:59	Dark	16.500	91	Kap Vel	2.4900	26000.	33	3494	Yes
83	GOM_NL__2PRFIN20021031_040120_000000212010_00434_03494_9301.N1	31-OCT-2002 04:01:20	Dark	20.500	46	Del Vel	1.9540	10600.	41	3494	Yes
84	GOM_NL__2PRFIN20021031_040606_000000452010_00434_03494_9302.N1	31-OCT-2002 04:06:06	Dark	45.000	117	Pi Pup	2.7060	3800.0	90	3494	Yes
85	GOM_NL__2PRFIN20021031_040750_000000312010_00434_03494_9303.N1	31-OCT-2002 04:07:50	Dark	30.500	2	Alp Car	-0.73600	7000.0	61	3494	Yes
86	GOM_NL__2PRFIN20021031_040924_000000392010_00434_03494_9304.N1	31-OCT-2002 04:09:24	Dark	39.000	23	21Eps CMa	1.5020	26000.	78	3494	Yes
87	GOM_NL__2PRFIN20021031_041330_000000162010_00434_03494_9305.N1	31-OCT-2002 04:13:30	Dark	16.000	143	Alp Hyi	2.8570	7200.0	32	3494	Yes
88	GOM_NL__2PRFIN20021031_041454_000000232010_00434_03494_9306.N1	31-OCT-2002 04:14:54	Dark	22.500	9	Alp Eri	0.45300	24000.	45	3494	Yes
89	GOM_NL__2PRFIN20021031_041811_000000212010_00434_03494_9307.N1	31-OCT-2002 04:18:11	Dark	20.500	157	The1Eri	2.9060	9300.0	41	3494	Yes
90	GOM_NL__2PRFIN20021031_041939_000000242010_00434_03494_9308.N1	31-OCT-2002 04:19:39	Dark	24.000	84	Alp Phe	2.3970	4500.0	48	3494	Yes
91	GOM_NL__2PRFIN20021031_042147_000000492010_00434_03494_9309.N1	31-OCT-2002 04:21:47	Dark	49.000	139	9Bet Lep	2.8330	5600.0	98	3494	Yes
92	GOM_NL__2PRFIN20021031_042409_000000692010_00434_03494_9310.N1	31-OCT-2002 04:24:09	Dark	68.500	101	11Alp Lep	2.5820	7000.0	137	3494	Yes
93	GOM_NL__2PRFIN20021031_042640_000000322010_00434_03494_9311.N1	31-OCT-2002 04:26:40	Dark	31.500	165	34Gam Eri	2.9500	3200.0	63	3494	Yes
94	GOM_NL__2PRFIN20021031_043255_000000382010_00434_03494_9312.N1	31-OCT-2002 04:32:55	Dark	38.000	94	92Alp Cet	2.5260	3100.0	76	3494	Yes
95	GOM_NL__2PRFIN20021031_043545_000000152010_00434_03494_9313.N1	31-OCT-2002 04:35:45	Dark	15.000	140	88Gam Peg	2.8340	26000.	30	3494	Yes
96	GOM_NL__2PRFIN20021031_043711_000000172010_00434_03494_9314.N1	31-OCT-2002 04:37:11	Bright	17.000	105	6Bet Ari	2.6450	8900.0	34	3494	No
97	GOM_NL__2PRFIN20021031_043809_000000192010_00434_03494_9315.N1	31-OCT-2002 04:38:09	Dark	19.000	50	13Alp Ari	2.0070	4250.0	38	3494	Yes
98	GOM_NL__2PRFIN20021031_043936_000000172010_00434_03494_9316.N1	31-OCT-2002 04:39:36	Dark	17.000	58	21Alp And	2.0730	11000.	34	3494	Yes
99	GOM_NL__2PRFIN20021031_044109_000000182010_00434_03494_9317.N1	31-OCT-2002 04:41:09	Dark	18.000	53	43Bet And	2.0480	3300.0	36	3494	Yes
100	GOM_NL__2PRFIN20021031_044340_000000192010_00434_03494_9318.N1	31-OCT-2002 04:43:40	Dark	18.500	73	57Gam1And	2.2600	13100.	37	3494	Yes
101	GOM_NL__2PRFIN20021031_044511_000000192010_00434_03494_9319.N1	31-OCT-2002 04:45:11	Dark	19.000	79	26Bet Per	2.3100	13100.	38	3494	Yes

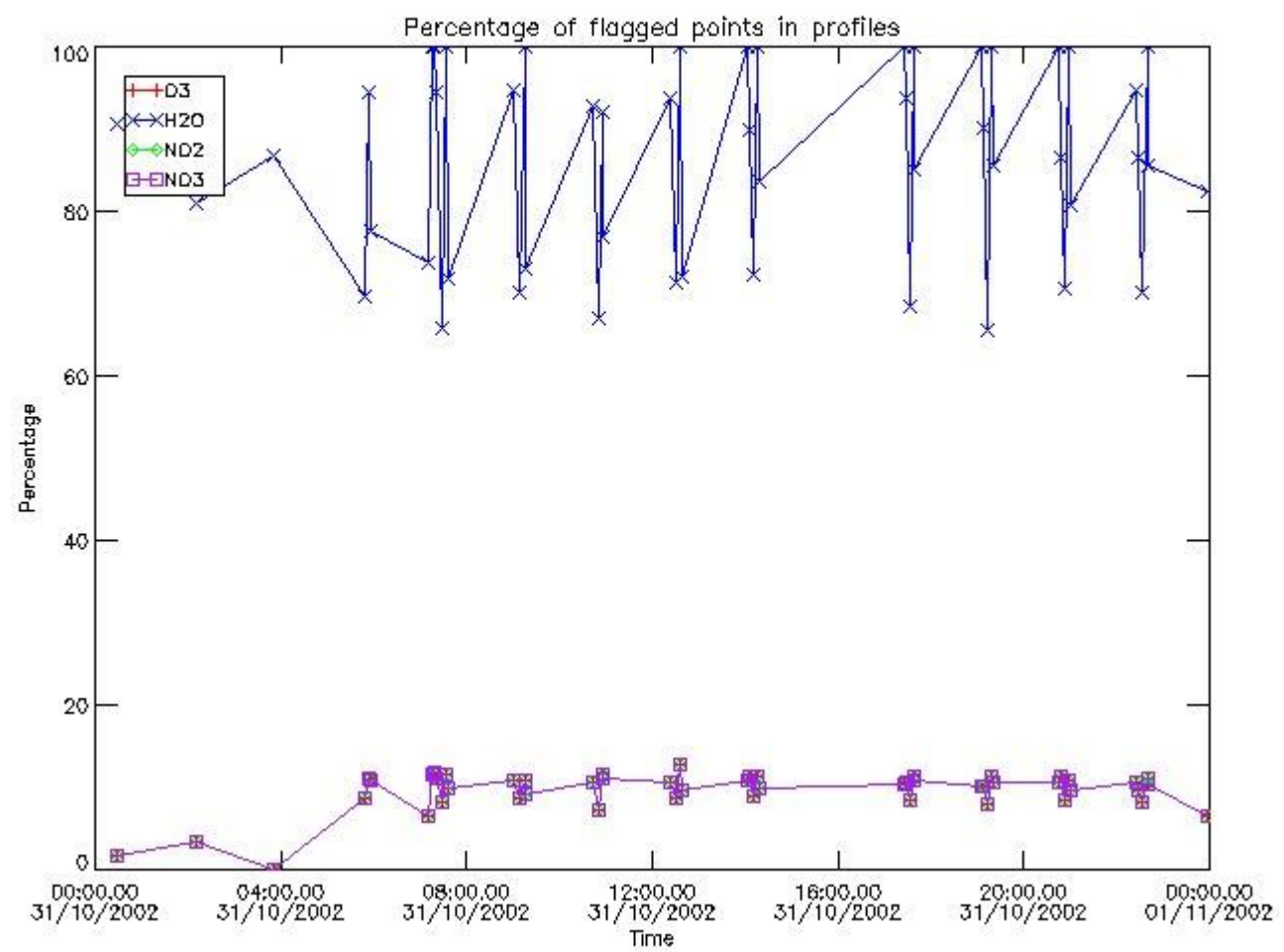
102	GOM_NL__2PRFIN20021031_044701_000000152010_00434_03494_9320.N1	31-OCT-2002 04:47:01	Dark	15.000	68	18Alp Cas	2.2250	4500.0	30	3494	Yes
103	GOM_NL__2PRFIN20021031_044813_000000152010_00434_03494_9321.N1	31-OCT-2002 04:48:13	Dark	15.000	76	27Gam Cas	2.3000	30000.	30	3494	Yes
104	GOM_NL__2PRFIN20021031_045135_000000122010_00434_03494_9322.N1	31-OCT-2002 04:51:35	Dark	12.000	89	5Alp Cep	2.4510	8000.0	24	3494	Yes
105	GOM_NL__2PRFIN20021031_045617_000000152010_00434_03494_9323.N1	31-OCT-2002 04:56:17	Bright	14.500	49	1Alp UMi	1.9900	6300.0	29	3494	No
106	GOM_NL__2PRFIN20021031_050004_000000152010_00434_03494_9324.N1	31-OCT-2002 05:00:04	Dark	14.500	60	7Bet UMi	2.0810	3950.0	29	3494	Yes
107	GOM_NL__2PRFIN20021031_050428_000000192010_00434_03494_9325.N1	31-OCT-2002 05:04:28	Dark	19.000	36	50Alp UMa	1.8000	6300.0	38	3494	Yes
108	GOM_NL__2PRFIN20021031_050559_000000132010_00434_03494_9326.N1	31-OCT-2002 05:05:59	Dark	12.500	32	77Eps UMa	1.7630	11000.	25	3494	Yes
109	GOM_NL__2PRFIN20021031_050655_000000152010_00434_03494_9327.N1	31-OCT-2002 05:06:55	Bright	14.500	87	64Gam UMa	2.4330	11000.	29	3494	No
110	GOM_NL__2PRFIN20021031_050944_000000152010_00434_03494_9328.N1	31-OCT-2002 05:09:44	Dark	15.000	174	52Psi UMa	3.0040	4400.0	30	3494	Yes
111	GOM_NL__2PRFIN20021031_051705_000000162010_00434_03494_9329.N1	31-OCT-2002 05:17:05	Dark	15.500	96	68Del Leo	2.5600	9300.0	31	3494	Yes
112	GOM_NL__2PRFIN20021031_054035_000000182010_00435_03495_9300.N1	31-OCT-2002 05:40:35	Dark	18.000	91	Kap Vel	2.4900	26000.	36	3495	Yes
113	GOM_NL__2PRFIN20021031_054752_000000582010_00435_03495_9301.N1	31-OCT-2002 05:47:52	Dark	58.000	2	Alp Car	-0.73600	7000.0	116	3495	No
114	GOM_NL__2PRFIN20021031_055338_000000462010_00435_03495_9302.N1	31-OCT-2002 05:53:38	Dark	45.500	143	Alp Hyi	2.8570	7200.0	91	3495	No
115	GOM_NL__2PRFIN20021031_055502_000000482010_00435_03495_9303.N1	31-OCT-2002 05:55:02	Dark	47.500	9	Alp Eri	0.45300	24000.	95	3495	No
116	GOM_NL__2PRFIN20021031_055916_0000002202010_00435_03495_9350.N1	31-OCT-2002 05:59:16	Straylight	220.00	1	9Alp CMa	-1.4400	11000.	440	3495	No
117	GOM_NL__2PRFIN20021031_060623_000000472010_00435_03495_9351.N1	31-OCT-2002 06:06:23	Straylight	46.500	52	16Bet Cet	2.0370	4500.0	93	3495	No
118	GOM_NL__2PRFIN20021031_061253_000000762010_00435_03495_9352.N1	31-OCT-2002 06:12:53	Bright	76.000	94	92Alp Cet	2.5260	3100.0	152	3495	No
119	GOM_NL__2PRFIN20021031_061552_000000432010_00435_03495_9353.N1	31-OCT-2002 06:15:52	Bright	42.500	140	88Gam Peg	2.8340	26000.	85	3495	No
120	GOM_NL__2PRFIN20021031_061813_000000502010_00435_03495_9354.N1	31-OCT-2002 06:18:13	Bright	49.500	50	13Alp Ari	2.0070	4250.0	99	3495	No
121	GOM_NL__2PRFIN20021031_062115_000000472010_00435_03495_9355.N1	31-OCT-2002 06:21:15	Bright	46.500	53	43Bet And	2.0480	3300.0	93	3495	No
122	GOM_NL__2PRFIN20021031_062345_000000492010_00435_03495_9356.N1	31-OCT-2002 06:23:45	Bright	48.500	73	57Gam1And	2.2600	13100.	97	3495	No
123	GOM_NL__2PRFIN20021031_062708_000000452010_00435_03495_9357.N1	31-OCT-2002 06:27:08	Bright	44.500	68	18Alp Cas	2.2250	4500.0	89	3495	No
124	GOM_NL__2PRFIN20021031_063156_0000001062010_00435_03495_9358.N1	31-OCT-2002 06:31:56	Bright	105.50	114	3Iot Aur	2.6930	4600.0	211	3495	No
125	GOM_NL__2PRFIN20021031_063624_000000442010_00435_03495_9359.N1	31-OCT-2002 06:36:24	Bright	44.000	49	1Alp UMi	1.9900	6300.0	88	3495	No
126	GOM_NL__2PRFIN20021031_064012_000000472010_00435_03495_9360.N1	31-OCT-2002 06:40:12	Bright	46.500	60	7Bet UMi	2.0810	3950.0	93	3495	No
127	GOM_NL__2PRFIN20021031_064433_000000452010_00435_03495_9361.N1	31-OCT-2002 06:44:33	Bright	44.500	36	50Alp UMa	1.8000	6300.0	89	3495	No
128	GOM_NL__2PRFIN20021031_064606_000000442010_00435_03495_9362.N1	31-OCT-2002 06:46:06	Bright	44.000	32	77Eps UMa	1.7630	11000.	88	3495	No
129	GOM_NL__2PRFIN20021031_064949_000000462010_00435_03495_9363.N1	31-OCT-2002 06:49:49	Bright	46.000	174	52Psi UMa	3.0040	4400.0	92	3495	No
130	GOM_NL__2PRFIN20021031_065625_0000002552010_00435_03495_9364.N1	31-OCT-2002 06:56:25	Tw_i_and_stray	255.00	24	66Alp Gem	1.5800	10200.	510	3495	No
131	GOM_NL__2PRFIN20021031_070128_000000652010_00435_03495_9365.N1	31-OCT-2002 07:01:28	Bright	65.000	22	32Alp Leo	1.3600	15200.	130	3495	No
132	GOM_NL__2PRFIN20021031_071041_000000792010_00435_03495_9366.N1	31-OCT-2002 07:10:41	Dark	78.500	48	30Alp Hya	1.9770	4100.0	157	3495	No
133	GOM_NL__2PRFIN20021031_071602_000000452010_00435_03495_9367.N1	31-OCT-2002 07:16:02	Dark	44.500	99	Del Cen	2.5750	26000.	89	3495	No
134	GOM_NL__2PRFIN20021031_071812_000000442010_00435_03495_9368.N1	31-OCT-2002 07:18:12	Dark	43.500	129	Del Cru	2.7930	26000.	87	3495	No
135	GOM_NL__2PRFIN20021031_072042_000000462010_00436_03496_9369.N1	31-OCT-2002 07:20:42	Dark	46.000	91	Kap Vel	2.4900	26000.	92	3496	No
136	GOM_NL__2PRFIN20021031_072829_000000622010_00436_03496_9370.N1	31-OCT-2002 07:28:29	Dark	62.000	2	Alp Car	-0.73600	7000.0	124	3496	No
137	GOM_NL__2PRFIN20021031_073414_000000452010_00436_03496_9371.N1	31-OCT-2002 07:34:14	Dark	44.500	143	Alp Hyi	2.8570	7200.0	89	3496	No
138	GOM_NL__2PRFIN20021031_073538_000000522010_00436_03496_9372.N1	31-OCT-2002 07:35:38	Dark	52.000	9	Alp Eri	0.45300	24000.	104	3496	No
139	GOM_NL__2PRFIN20021031_073955_0000002202010_00436_03496_9373.N1	31-OCT-2002 07:39:55	Straylight	220.00	1	9Alp CMa	-1.4400	11000.	440	3496	No
140	GOM_NL__2PRFIN20021031_074659_000000502010_00436_03496_9374.N1	31-OCT-2002 07:46:59	Straylight	49.500	52	16Bet Cet	2.0370	4500.0	99	3496	No
141	GOM_NL__2PRFIN20021031_090118_000000482010_00437_03497_9300.N1	31-OCT-2002 09:01:18	Dark	47.500	91	Kap Vel	2.4900	26000.	95	3497	No
142	GOM_NL__2PRFIN20021031_090905_000000592010_00437_03497_9301.N1	31-OCT-2002 09:09:05	Dark	59.000	2	Alp Car	-0.73600	7000.0	118	3497	No
143	GOM_NL__2PRFIN20021031_091451_000000472010_00437_03497_9302.N1	31-OCT-2002 09:14:51	Dark	47.000	143	Alp Hyi	2.8570	7200.0	94	3497	No
144	GOM_NL__2PRFIN20021031_091614_000000562010_00437_03497_9303.N1	31-OCT-2002 09:16:14	Dark	56.000	9	Alp Eri	0.45300	24000.	112	3497	No
145	GOM_NL__2PRFIN20021031_092035_0000002202010_00437_03497_9304.N1	31-OCT-2002 09:20:35	Straylight	220.00	1	9Alp CMa	-1.4400	11000.	440	3497	No
146	GOM_NL__2PRFIN20021031_092735_000000502010_00437_03497_9305.N1	31-OCT-2002 09:27:35	Straylight	49.500	52	16Bet Cet	2.0370	4500.0	99	3497	No
147	GOM_NL__2PRFIN20021031_104155_000000492010_00438_03498_9300.N1	31-OCT-2002 10:41:55	Dark	48.500	91	Kap Vel	2.4900	26000.	97	3498	No
148	GOM_NL__2PRFIN20021031_104942_000000702010_00438_03498_9301.N1	31-OCT-2002 10:49:42	Dark	70.000	2	Alp Car	-0.73600	7000.0	140	3498	No
149	GOM_NL__2PRFIN20021031_105527_000000452010_00438_03498_9302.N1	31-OCT-2002 10:55:27	Dark	44.500	143	Alp Hyi	2.8570	7200.0	89	3498	No
150	GOM_NL__2PRFIN20021031_105650_000000462010_00438_03498_9303.N1	31-OCT-2002 10:56:50	Dark	46.000	9	Alp Eri	0.45300	24000.	92	3498	No
151	GOM_NL__2PRFIN20021031_110114_0000002202010_00438_03498_9304.N1	31-OCT-2002 11:01:14	Straylight	220.00	1	9Alp CMa	-1.4400	11000.	440	3498	No
152	GOM_NL__2PRFIN20021031_110811_000000522010_00438_03498_9305.N1	31-OCT-2002 11:08:11	Straylight	52.000	52	16Bet Cet	2.0370	4500.0	104	3498	No
153	GOM_NL__2PRFIN20021031_122231_000000482010_00439_03499_9300.N1	31-OCT-2002 12:22:31	Dark	48.000	91	Kap Vel	2.4900	26000.	96	3499	No
154	GOM_NL__2PRFIN20021031_123019_000000582010_00439_03499_9301.N1	31-OCT-2002 12:30:19	Dark	58.000	2	Alp Car	-0.73600	7000.0	116	3499	No
155	GOM_NL__2PRFIN20021031_123603_000000442010_00439_03499_9302.N1	31-OCT-2002 12:36:03	Dark	44.000	143	Alp Hyi	2.8570	7200.0	88	3499	No
156	GOM_NL__2PRFIN20021031_123726_000000532010_00439_03499_9303.N1	31-OCT-2002 12:37:26	Dark	52.500	9	Alp Eri	0.45300	24000.	105	3499	No
157	GOM_NL__2PRFIN20021031_124153_0000002202010_00439_03499_9304.N1	31-OCT-2002 12:41:53	Straylight	220.00	1	9Alp CMa	-1.4400	11000.	440	3499	No
158	GOM_NL__2PRFIN20021031_124847_000000522010_00439_03499_9305.N1	31-OCT-2002 12:48:47	Straylight	51.500	52	16Bet Cet	2.0370	4500.0	103	3499	No
159	GOM_NL__2PRFIN20021031_140308_000000472010_00440_03500_9300.N1	31-OCT-2002 14:03:08	Dark	47.000	91	Kap Vel	2.4900	26000.	94	3500	No
160	GOM_NL__2PRFIN20021031_140547_000000452010_00440_03500_9301.N1	31-OCT-2002 14:05:47	Dark	45.000	29	Bet Car	1.6720	10200.	90	3500	No

161	GOM_NL__2PRFIN20021031_141056_000000572010_00440_03500_9302.N1	31-OCT-2002 14:10:56	Dark	56.500	2	Alp Car	-0.73600	7000.0	113	3500	No
162	GOM_NL__2PRFIN20021031_141639_000000452010_00440_03500_9303.N1	31-OCT-2002 14:16:39	Dark	45.000	143	Alp Hyi	2.8570	7200.0	90	3500	No
163	GOM_NL__2PRFIN20021031_141802_000000522010_00440_03500_9304.N1	31-OCT-2002 14:18:02	Dark	52.000	9	Alp Eri	0.45300	24000.	104	3500	No
164	GOM_NL__2PRFIN20021031_142232_000002032010_00440_03500_9305.N1	31-OCT-2002 14:22:32	Straylight	202.50	1	9Alp CMa	-1.4400	11000.	405	3500	No
165	GOM_NL__2PRFIN20021031_172420_000000492010_00442_03502_9341.N1	31-OCT-2002 17:24:20	Dark	49.000	91	Kap Vel	2.4900	26000.	98	3502	No
166	GOM_NL__2PRFIN20021031_172659_000000482010_00442_03502_9342.N1	31-OCT-2002 17:26:59	Dark	48.000	29	Bet Car	1.6720	10200.	96	3502	No
167	GOM_NL__2PRFIN20021031_173208_000000612010_00442_03502_9343.N1	31-OCT-2002 17:32:08	Dark	60.500	2	Alp Car	-0.73600	7000.0	121	3502	No
168	GOM_NL__2PRFIN20021031_173751_000000452010_00442_03502_9344.N1	31-OCT-2002 17:37:51	Dark	45.000	143	Alp Hyi	2.8570	7200.0	90	3502	No
169	GOM_NL__2PRFIN20021031_173915_000000472010_00442_03502_9345.N1	31-OCT-2002 17:39:15	Dark	47.000	9	Alp Eri	0.45300	24000.	94	3502	No
170	GOM_NL__2PRFIN20021031_190456_000000502010_00443_03503_9341.N1	31-OCT-2002 19:04:56	Dark	50.000	91	Kap Vel	2.4900	26000.	100	3503	No
171	GOM_NL__2PRFIN20021031_190735_000000512010_00443_03503_9342.N1	31-OCT-2002 19:07:35	Dark	50.500	29	Bet Car	1.6720	10200.	101	3503	No
172	GOM_NL__2PRFIN20021031_191246_000000652010_00443_03503_9343.N1	31-OCT-2002 19:12:46	Dark	64.500	2	Alp Car	-0.73600	7000.0	129	3503	No
173	GOM_NL__2PRFIN20021031_191827_000000452010_00443_03503_9344.N1	31-OCT-2002 19:18:27	Dark	45.000	143	Alp Hyi	2.8570	7200.0	90	3503	No
174	GOM_NL__2PRFIN20021031_191951_000000492010_00443_03503_9345.N1	31-OCT-2002 19:19:51	Dark	48.500	9	Alp Eri	0.45300	24000.	97	3503	No
175	GOM_NL__2PRFIN20021031_204533_000000482010_00444_03504_9341.N1	31-OCT-2002 20:45:33	Dark	48.000	91	Kap Vel	2.4900	26000.	96	3504	No
176	GOM_NL__2PRFIN20021031_204812_000000452010_00444_03504_9342.N1	31-OCT-2002 20:48:12	Dark	45.000	29	Bet Car	1.6720	10200.	90	3504	No
177	GOM_NL__2PRFIN20021031_205323_000000602010_00444_03504_9343.N1	31-OCT-2002 20:53:23	Dark	60.000	2	Alp Car	-0.73600	7000.0	120	3504	No
178	GOM_NL__2PRFIN20021031_205904_000000482010_00444_03504_9344.N1	31-OCT-2002 20:59:04	Dark	47.500	143	Alp Hyi	2.8570	7200.0	95	3504	No
179	GOM_NL__2PRFIN20021031_210027_000000532010_00444_03504_9345.N1	31-OCT-2002 21:00:27	Dark	52.500	9	Alp Eri	0.45300	24000.	105	3504	No
180	GOM_NL__2PRFIN20021031_222610_000000482010_00445_03505_9341.N1	31-OCT-2002 22:26:10	Dark	48.000	91	Kap Vel	2.4900	26000.	96	3505	No
181	GOM_NL__2PRFIN20021031_222848_000000532010_00445_03505_9342.N1	31-OCT-2002 22:28:48	Dark	52.500	29	Bet Car	1.6720	10200.	105	3505	No
182	GOM_NL__2PRFIN20021031_223359_000000632010_00445_03505_9343.N1	31-OCT-2002 22:33:59	Dark	62.500	2	Alp Car	-0.73600	7000.0	125	3505	No
183	GOM_NL__2PRFIN20021031_223940_000000462010_00445_03505_9344.N1	31-OCT-2002 22:39:40	Dark	46.000	143	Alp Hyi	2.8570	7200.0	92	3505	No
184	GOM_NL__2PRFIN20021031_224103_000000492010_00445_03505_2809.N1	31-OCT-2002 22:41:03	Dark	49.000	9	Alp Eri	0.45300	24000.	98	3505	No
185	GOM_NL__2PRFIN20021031_224419_000000492010_00445_03505_2810.N1	31-OCT-2002 22:44:19	Straylight	49.000	157	The1Eri	2.9060	9300.0	98	3505	No
186	GOM_NL__2PRFIN20021031_224635_000002172010_00445_03505_2811.N1	31-OCT-2002 22:46:35	Straylight	217.00	47	2Bet CMa	1.9760	28000.	434	3505	No
187	GOM_NL__2PRFIN20021031_225223_000000512010_00445_03505_2812.N1	31-OCT-2002 22:52:23	Straylight	51.000	52	16Bet Cet	2.0370	4500.0	102	3505	No
188	GOM_NL__2PRFIN20021031_225849_000000662010_00445_03505_2813.N1	31-OCT-2002 22:58:49	Tw_i_and_stray	66.000	94	92Alp Cet	2.5260	3100.0	132	3505	No
189	GOM_NL__2PRFIN20021031_230154_000000432010_00445_03505_2814.N1	31-OCT-2002 23:01:54	Bright	43.000	140	88Gam Peg	2.8340	26000.	86	3505	No
190	GOM_NL__2PRFIN20021031_230409_000000522010_00445_03505_2815.N1	31-OCT-2002 23:04:09	Bright	51.500	50	13Alp Ari	2.0070	4250.0	103	3505	No
191	GOM_NL__2PRFIN20021031_230713_000000472010_00445_03505_2816.N1	31-OCT-2002 23:07:13	Bright	46.500	53	43Bet And	2.0480	3300.0	93	3505	No
192	GOM_NL__2PRFIN20021031_230940_000000502010_00445_03505_2817.N1	31-OCT-2002 23:09:40	Bright	50.000	73	57Gam1And	2.2600	13100.	100	3505	No
193	GOM_NL__2PRFIN20021031_231307_000000462010_00445_03505_2818.N1	31-OCT-2002 23:13:07	Bright	45.500	68	18Alp Cas	2.2250	4500.0	91	3505	No
194	GOM_NL__2PRFIN20021031_231731_000001082010_00445_03505_2819.N1	31-OCT-2002 23:17:31	Bright	107.50	114	3lot Aur	2.6930	4600.0	215	3505	No
195	GOM_NL__2PRFIN20021031_232222_000000452010_00445_03505_2820.N1	31-OCT-2002 23:22:22	Bright	44.500	49	1Alp UMi	1.9900	6300.0	89	3505	No
196	GOM_NL__2PRFIN20021031_232613_000000412010_00445_03505_2821.N1	31-OCT-2002 23:26:13	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	3505	No
197	GOM_NL__2PRFIN20021031_233031_000000472010_00445_03505_2822.N1	31-OCT-2002 23:30:31	Bright	47.000	36	50Alp UMa	1.8000	6300.0	94	3505	No
198	GOM_NL__2PRFIN20021031_233206_000000492010_00445_03505_2823.N1	31-OCT-2002 23:32:06	Bright	48.500	82	48Bet UMa	2.3650	10600.	97	3505	No
199	GOM_NL__2PRFIN20021031_233547_000000472010_00445_03505_2824.N1	31-OCT-2002 23:35:47	Bright	47.000	174	52Psi UMa	3.0040	4400.0	94	3505	No
200	GOM_NL__2PRFIN20021031_234232_000002552010_00445_03505_2825.N1	31-OCT-2002 23:42:32	Tw_i_and_stray	255.00	24	66Alp Gem	1.5800	10200.	510	3505	No
201	GOM_NL__2PRFIN20021031_234733_000000652010_00445_03505_2826.N1	31-OCT-2002 23:47:33	Bright	65.000	22	32Alp Leo	1.3600	15200.	130	3505	No
202	GOM_NL__2PRFIN20021031_235653_000000782010_00445_03505_2827.N1	31-OCT-2002 23:56:53	Dark	77.500	48	30Alp Hya	1.9770	4100.0	155	3505	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.

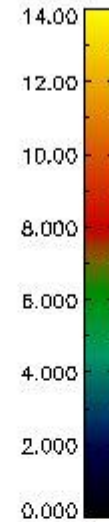
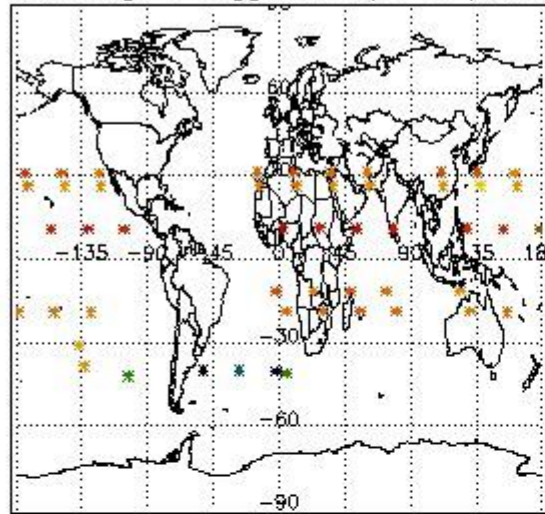
#### 3.1 Plot quality information per product (time dependant)



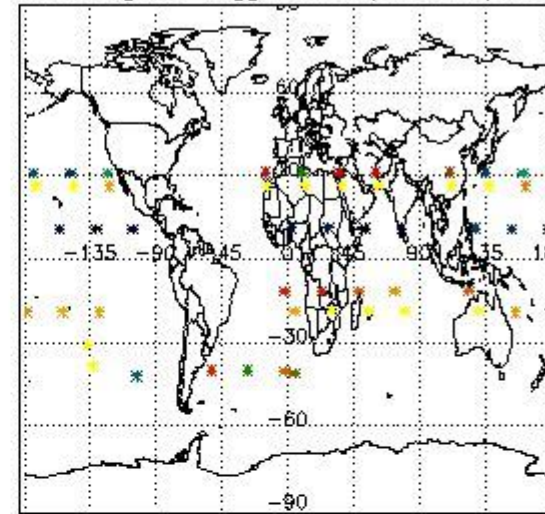
*3.2 Plot quality information per product (world map)*



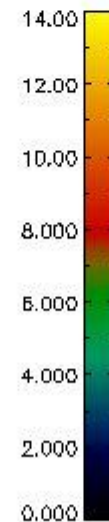
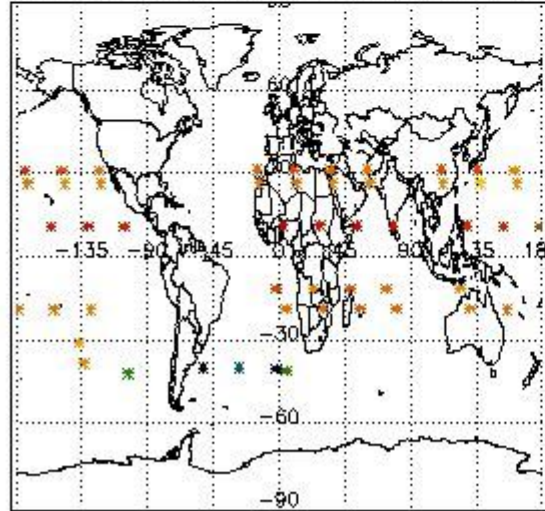
Percentage of flagged data per O3 profile



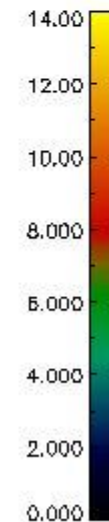
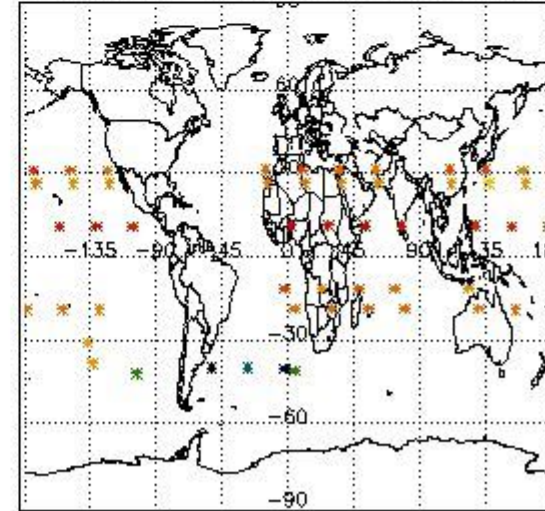
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

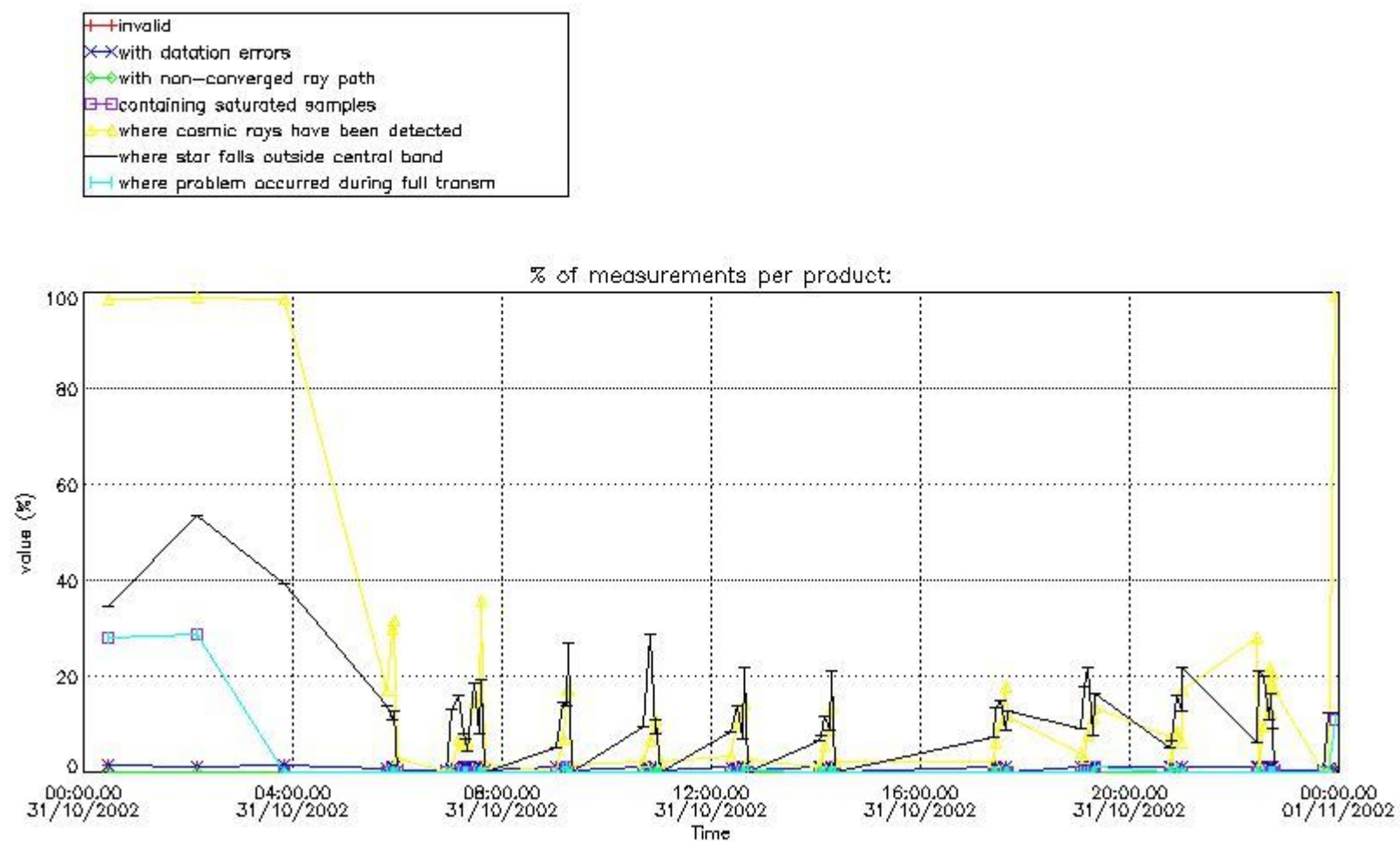


#### 4. Level 1 quality information per product

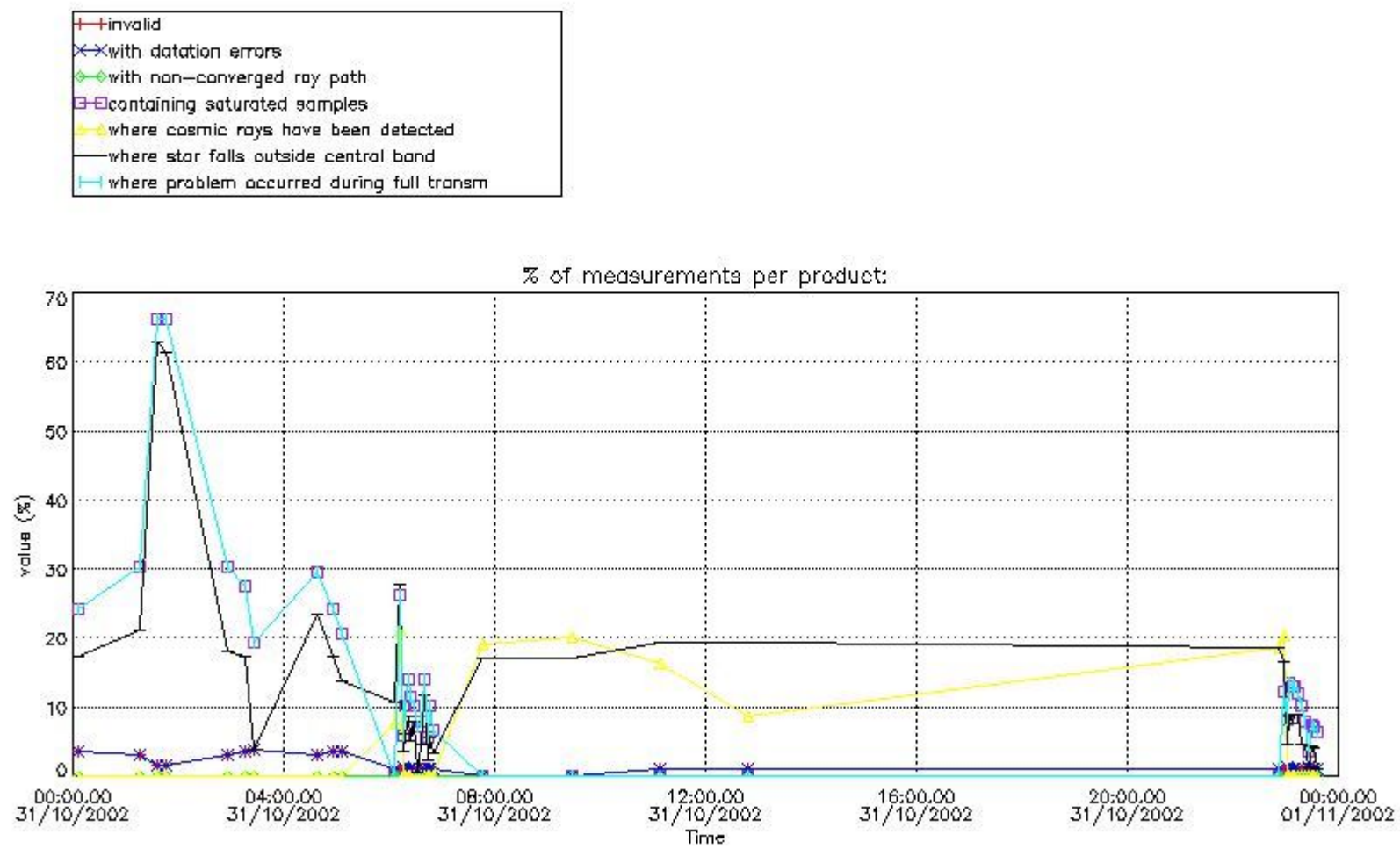
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

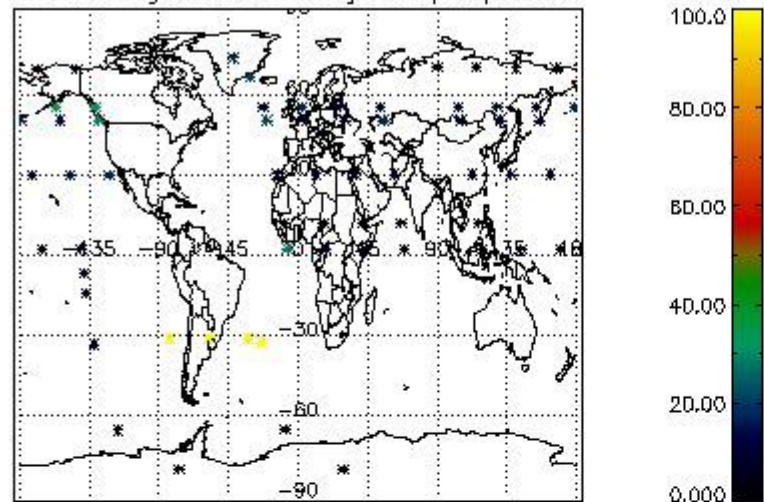


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

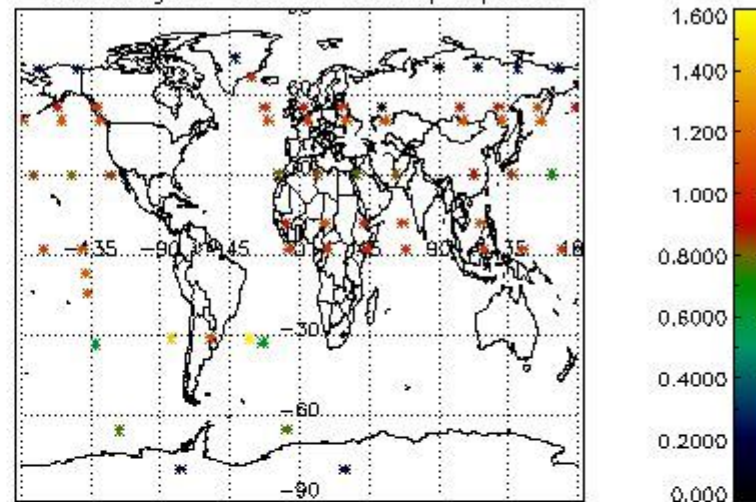


4.2 Plot quality information per product coming from level 1b processing (world map)  
 4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes

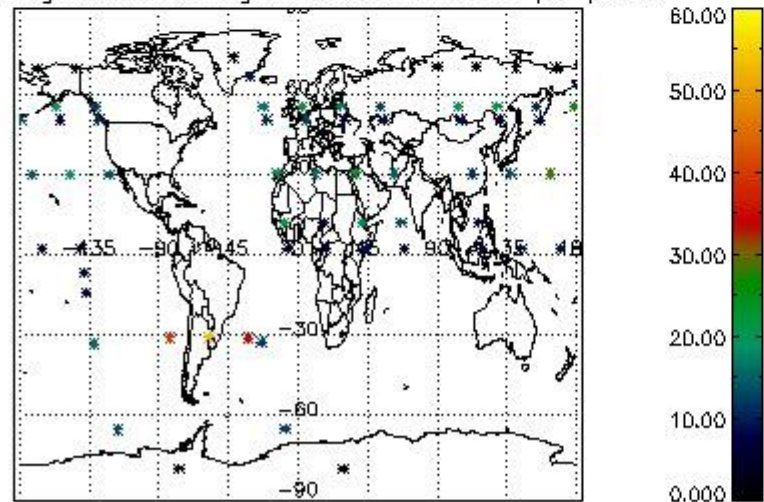
Percentage of cosmic ray hits per profile



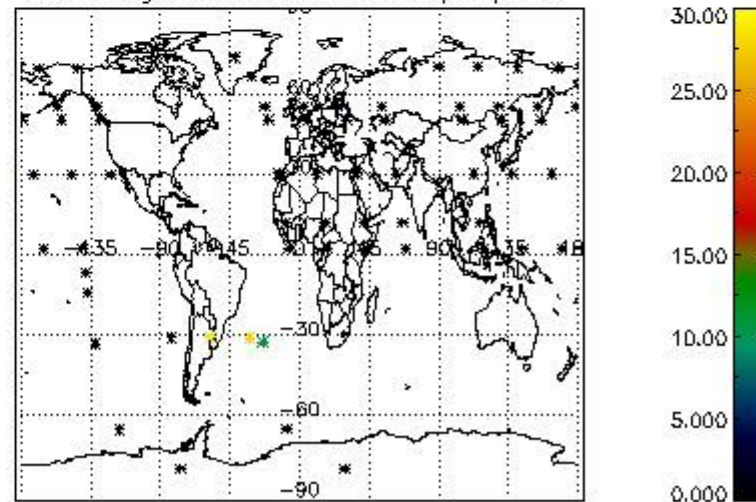
Percentage of datation errors per profile



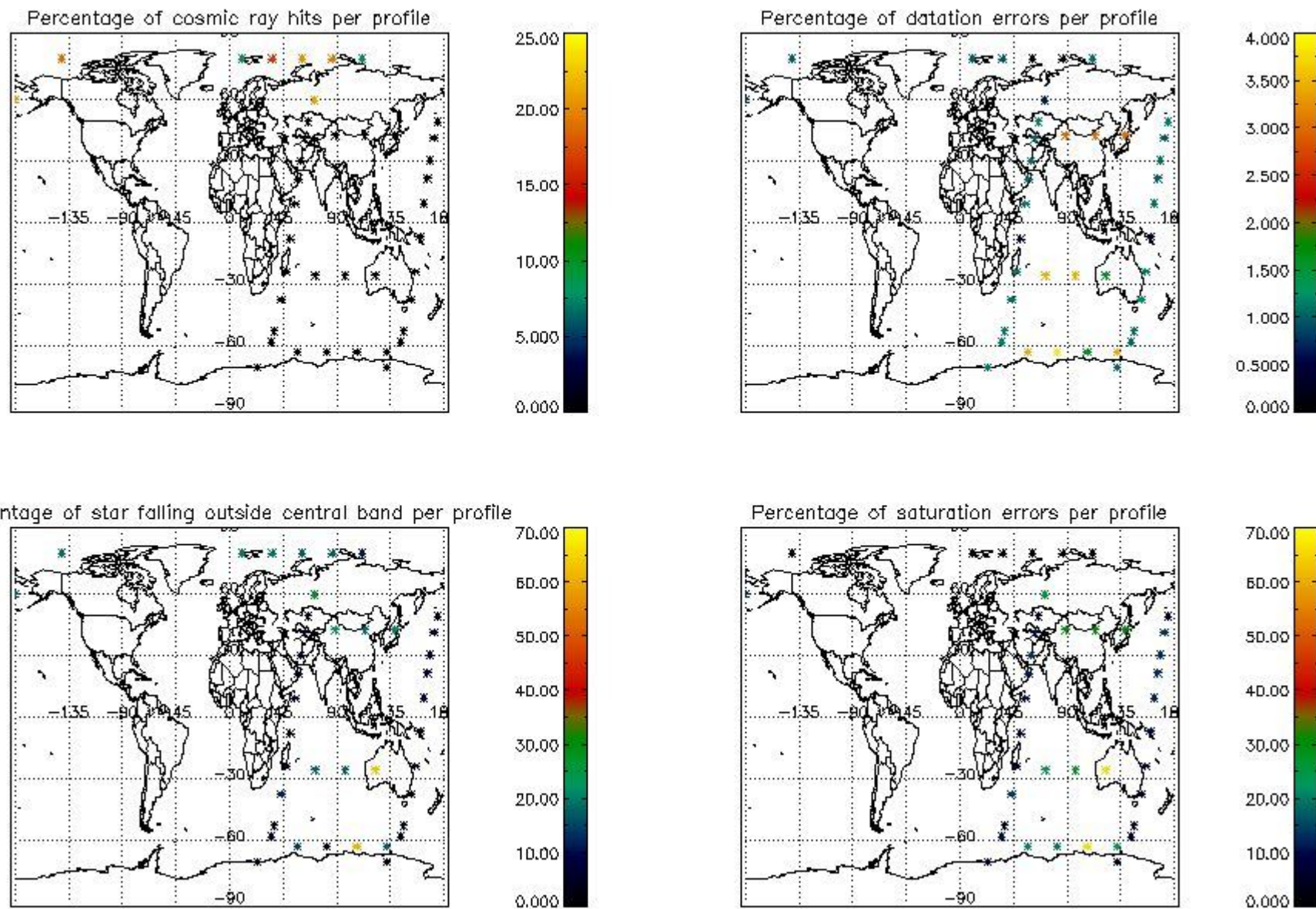
Percentage of star falling outside central band per profile



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

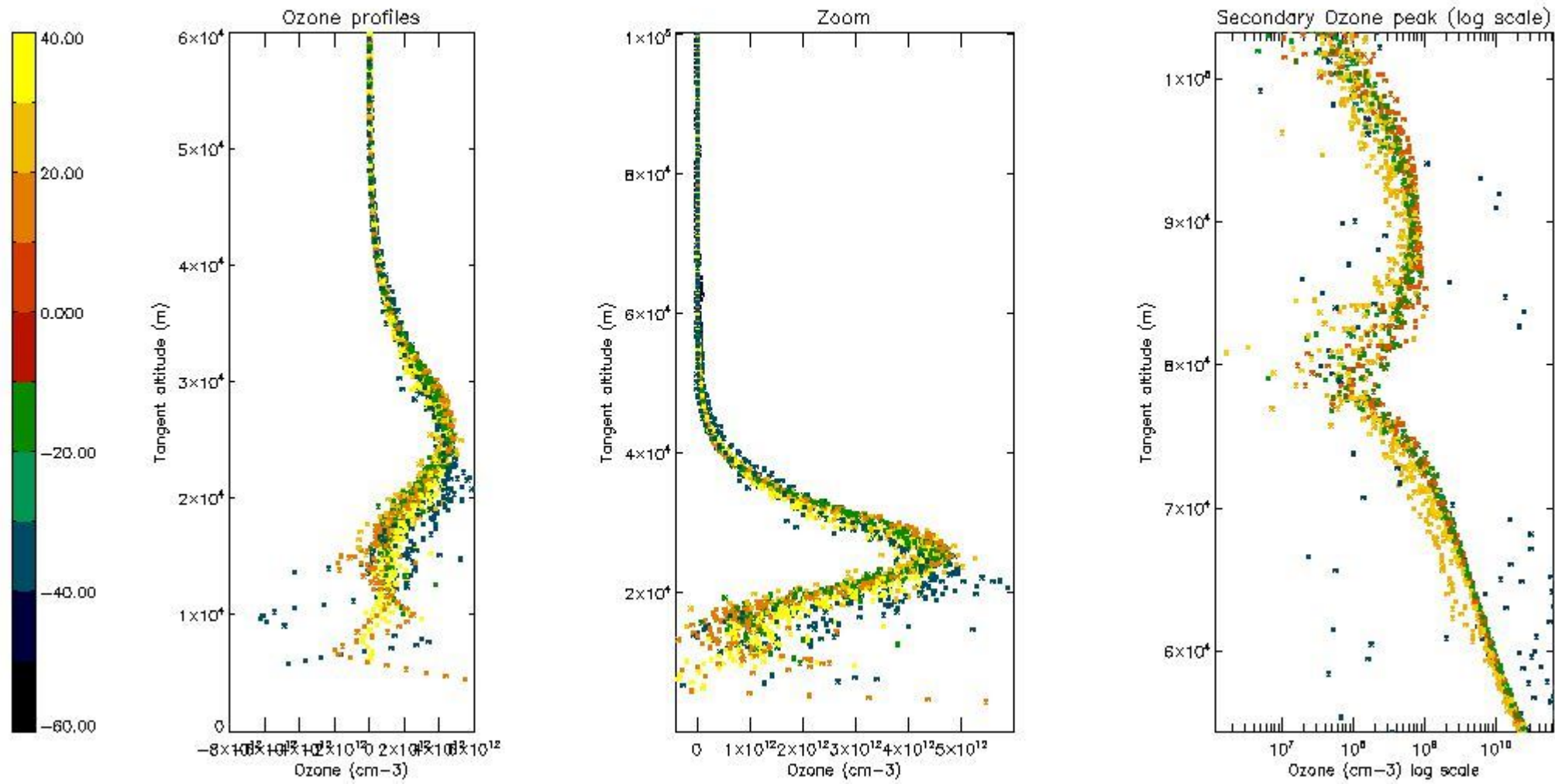
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	39
STD < 20	23

STD < 10	20
STD < 5	15

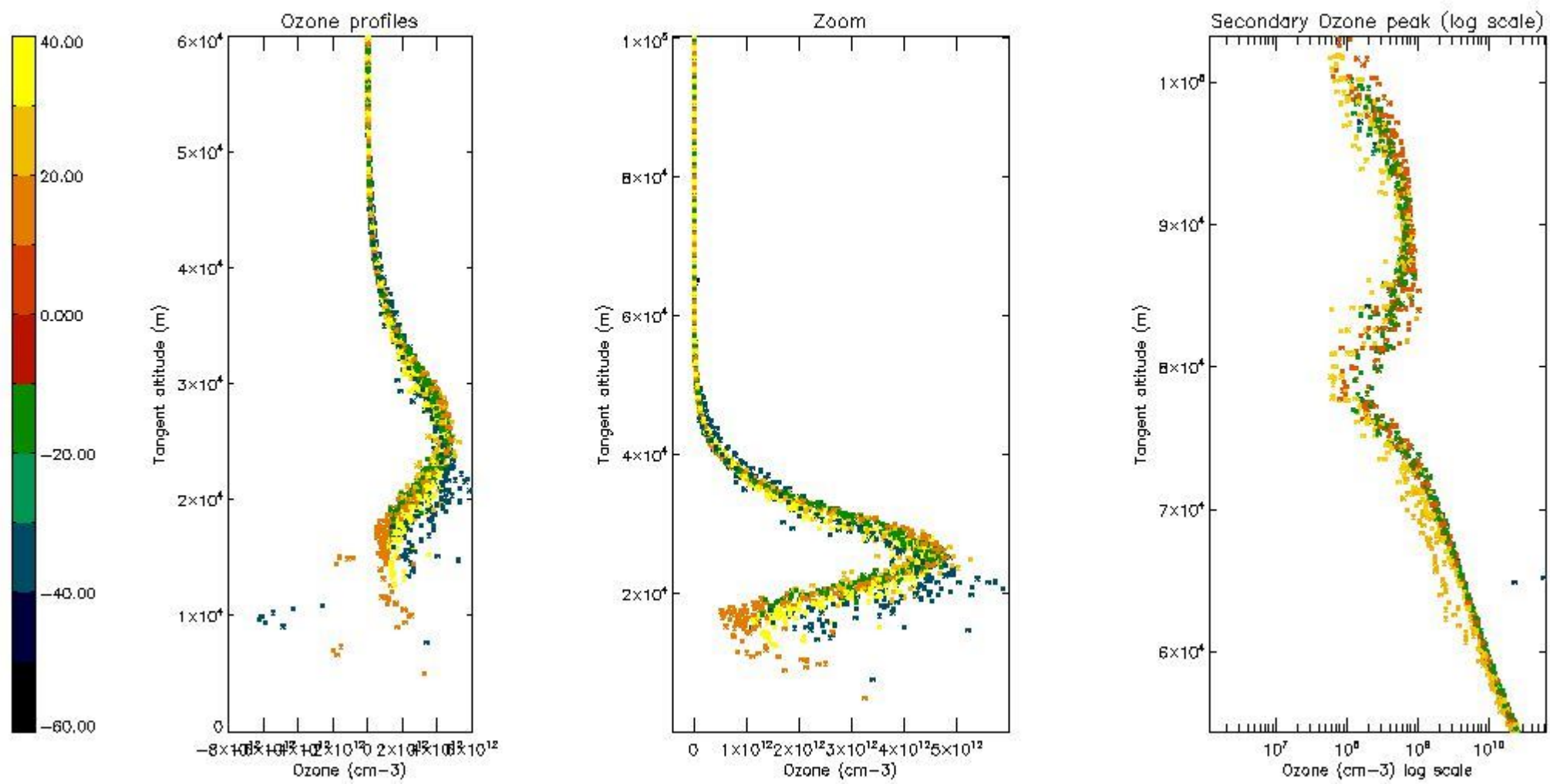
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



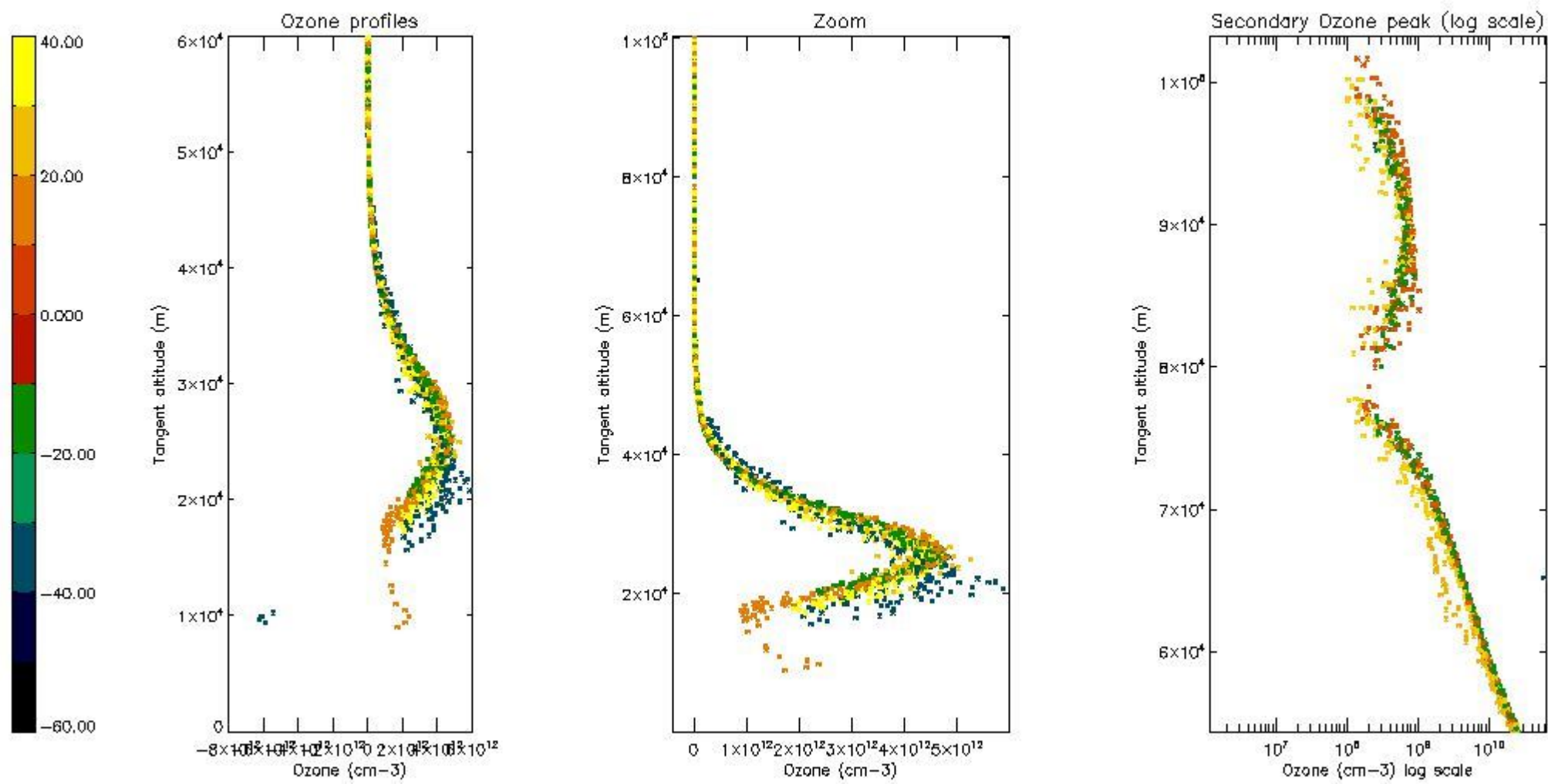
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



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

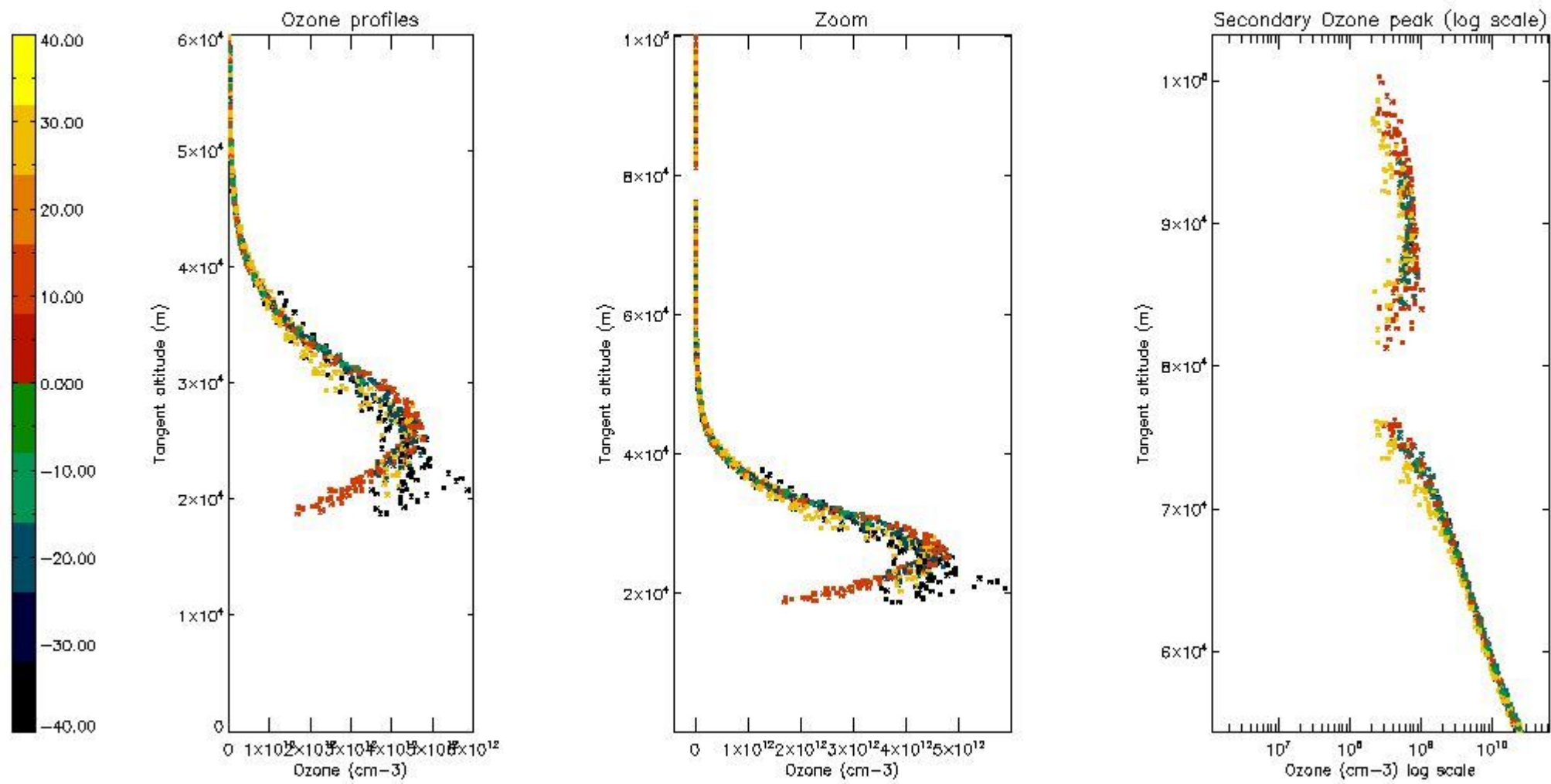
The colorbar represents the latitude.



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

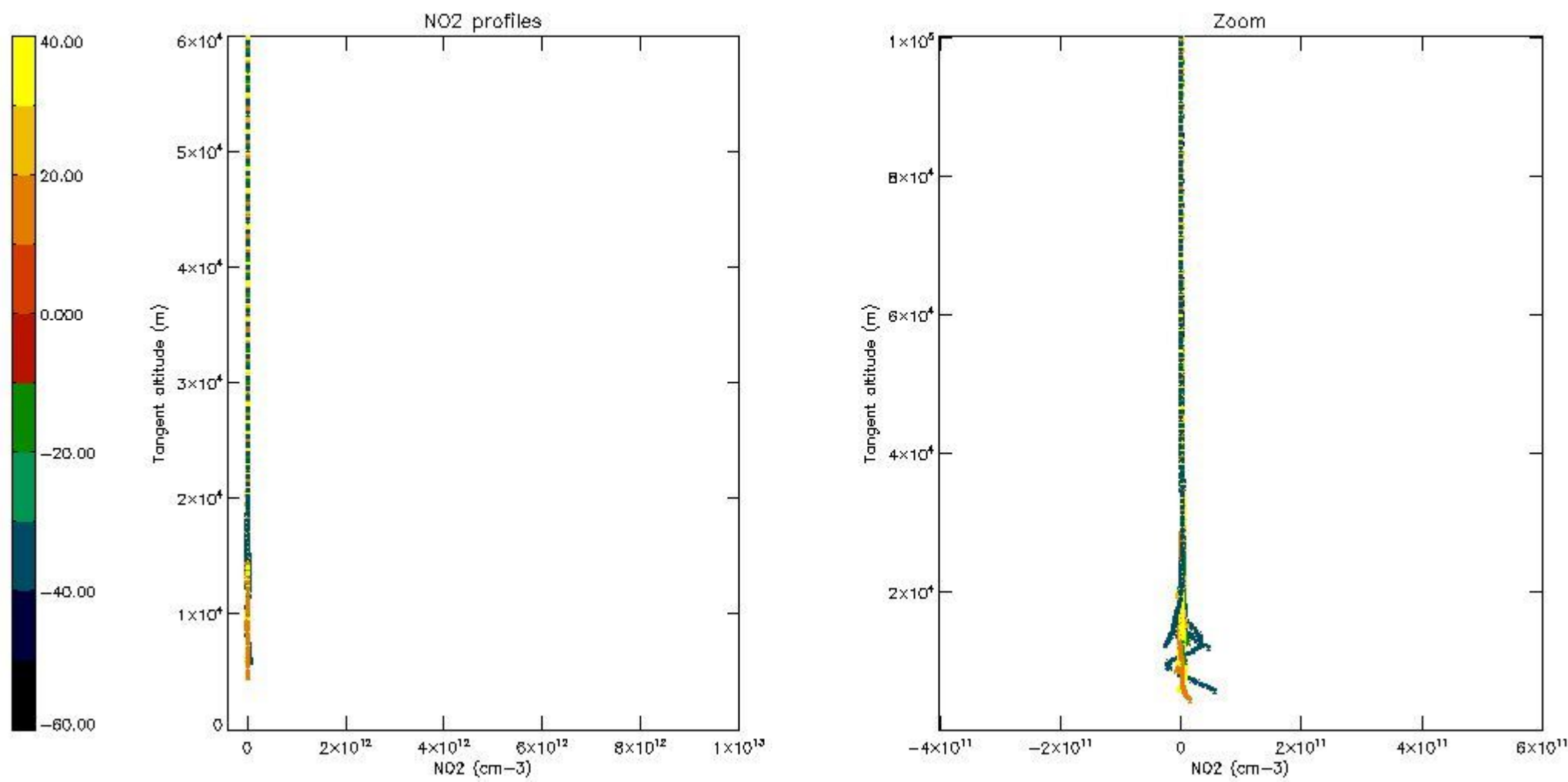
The colorbar represents the latitude.





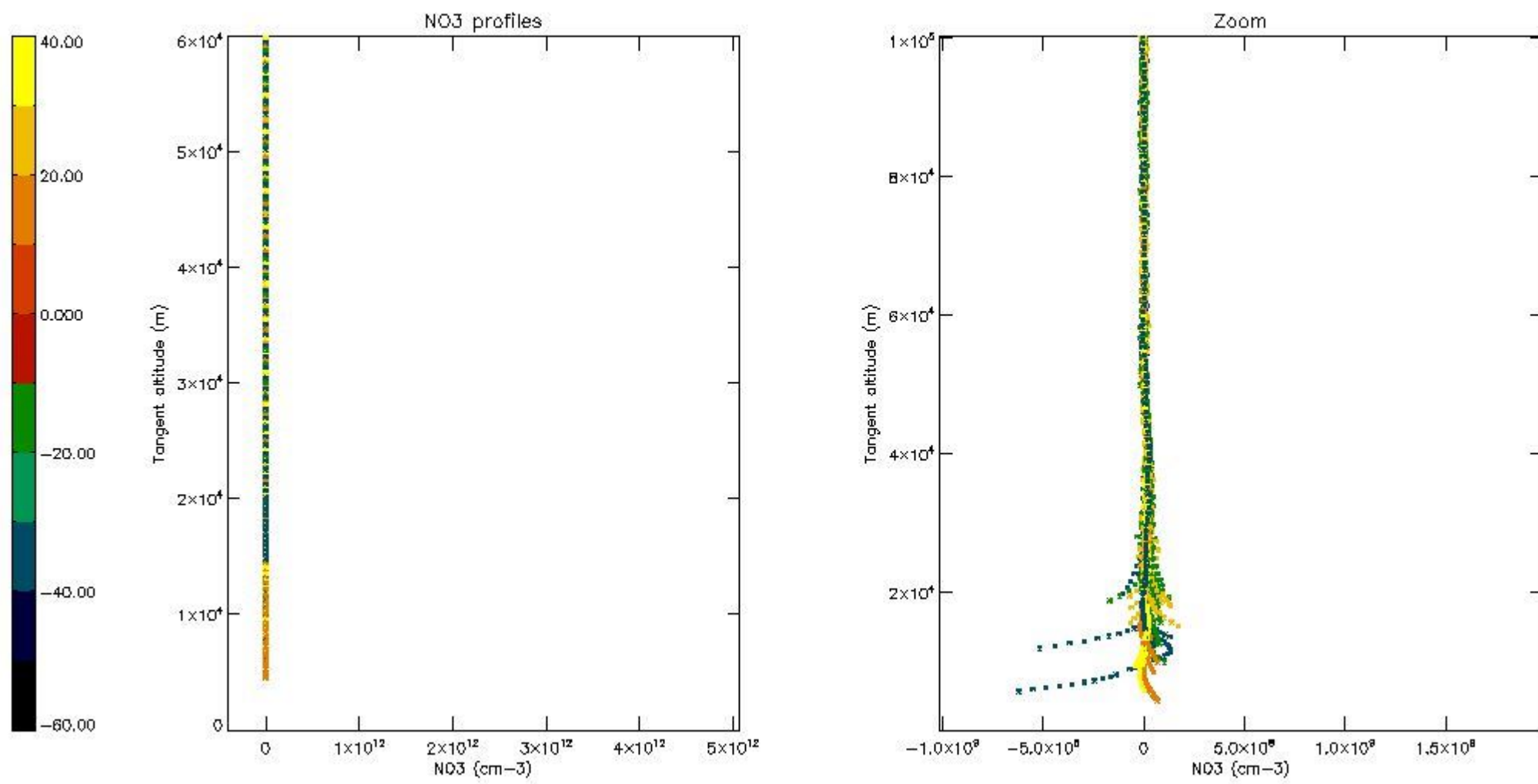
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



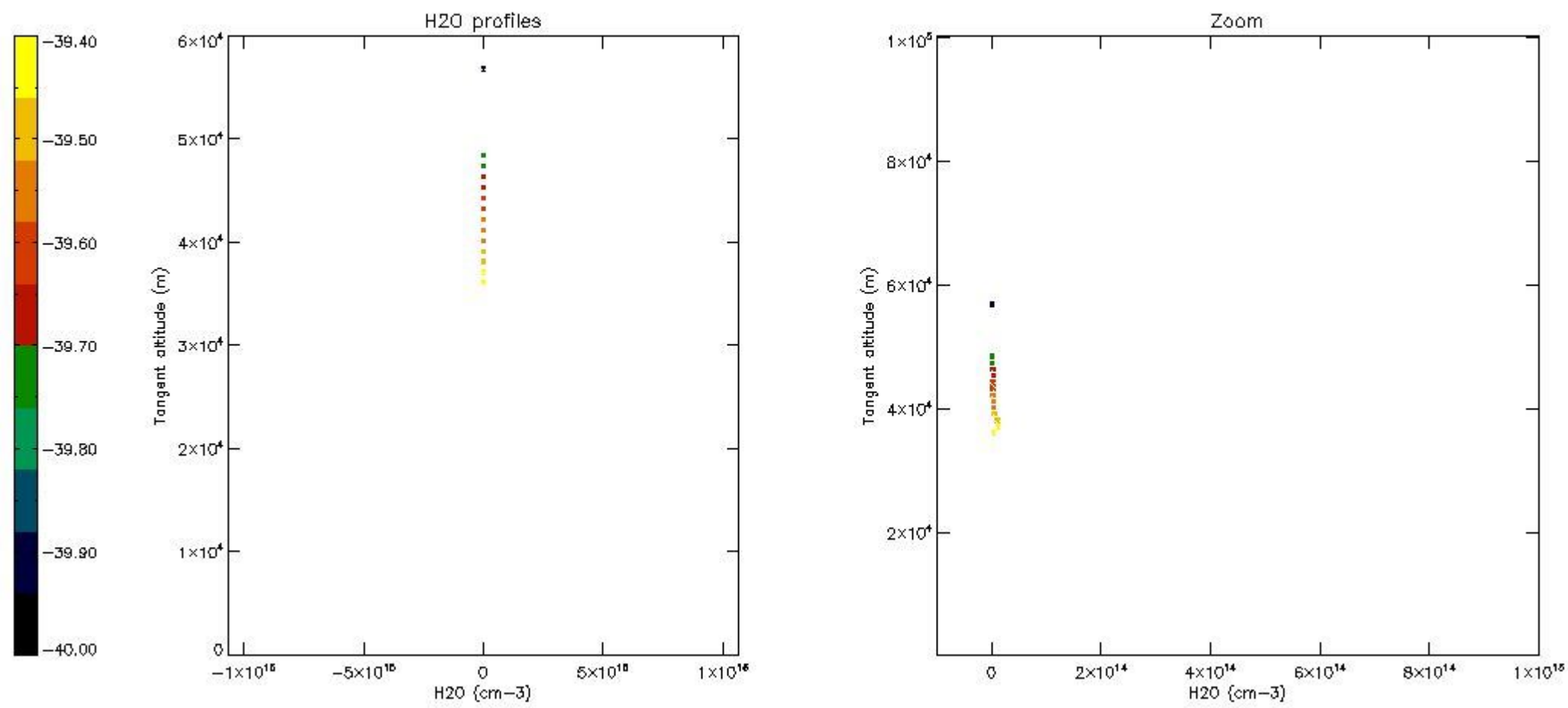
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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)

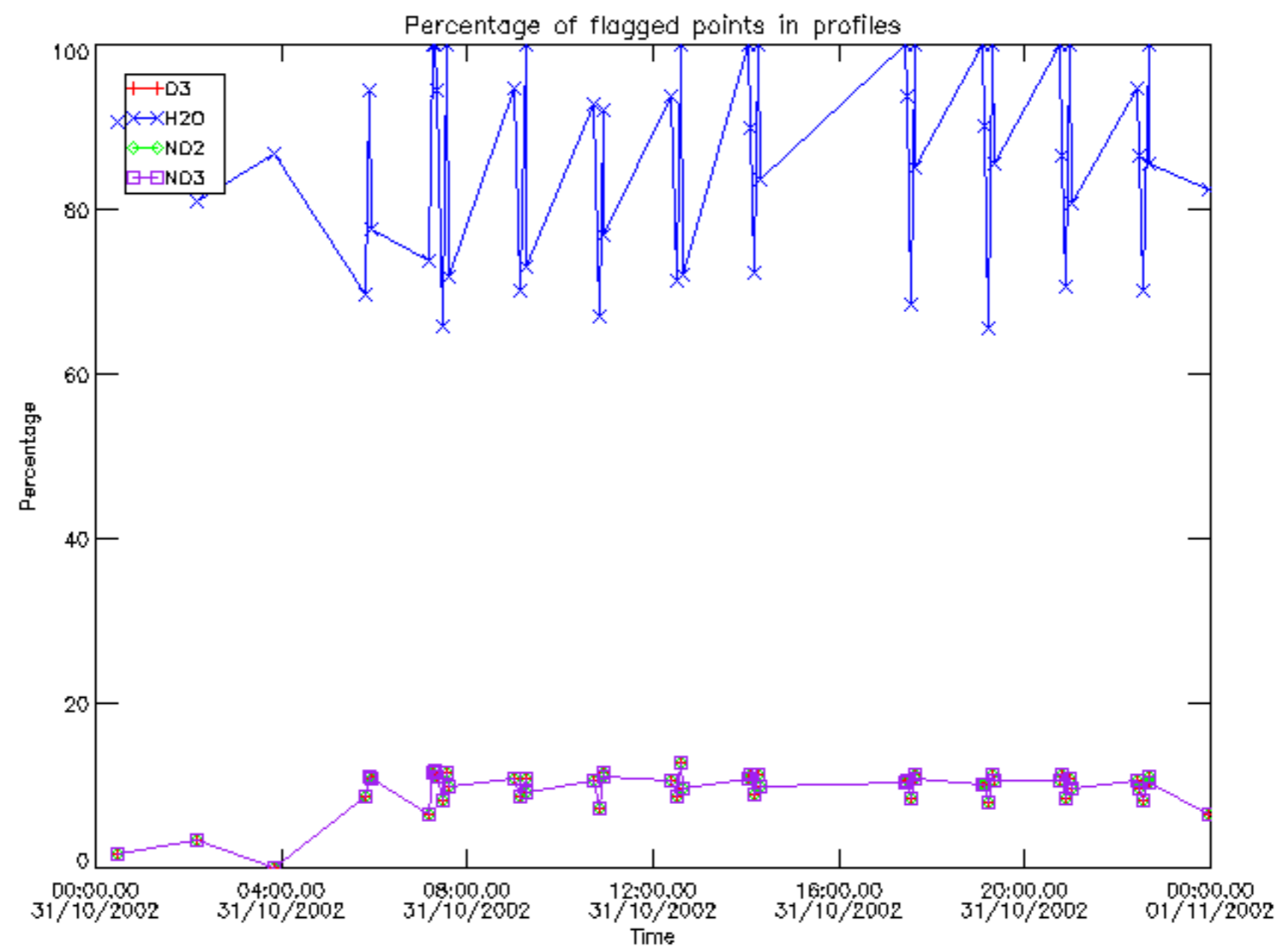
The colorbar represents the latitude.



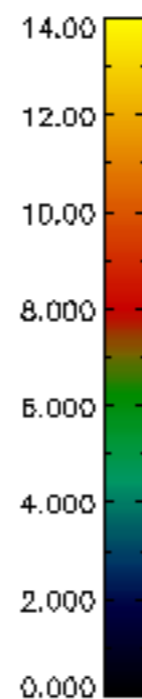
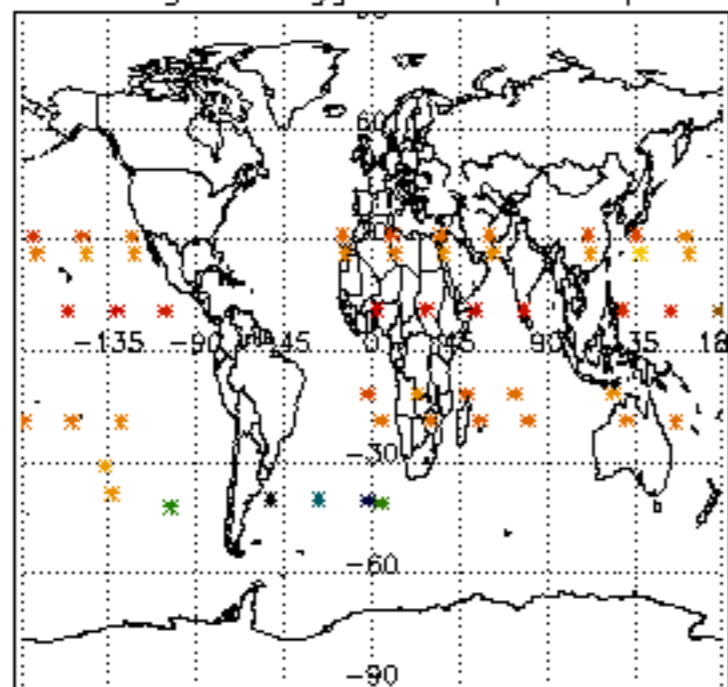
## 6. Auxiliary Data Files used for the production reported in section 2

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.

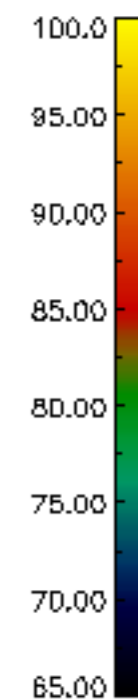
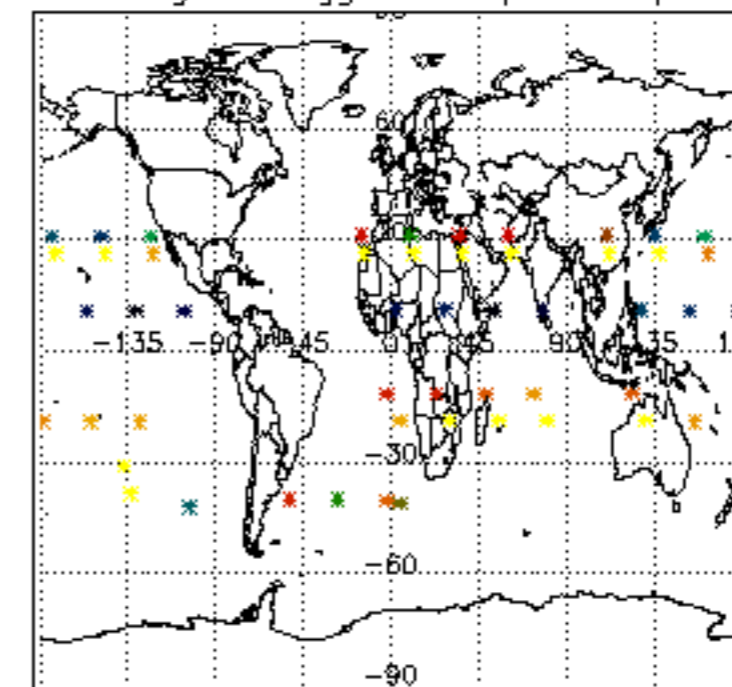
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	31-OCT-2002 00:02:40
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	31-OCT-2002 00:02:40
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	31-OCT-2002 00:02:40



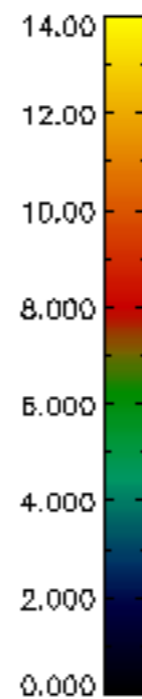
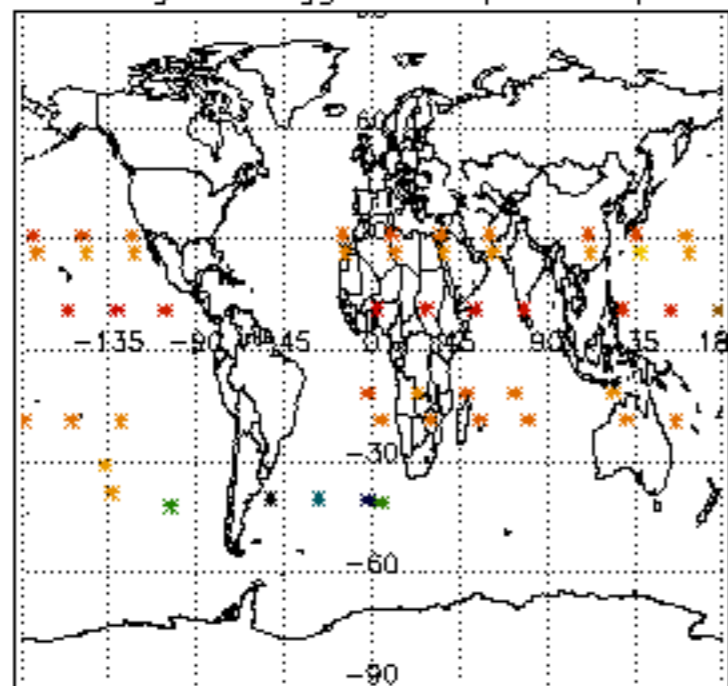
Percentage of flagged data per D3 profile



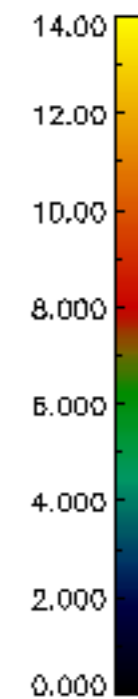
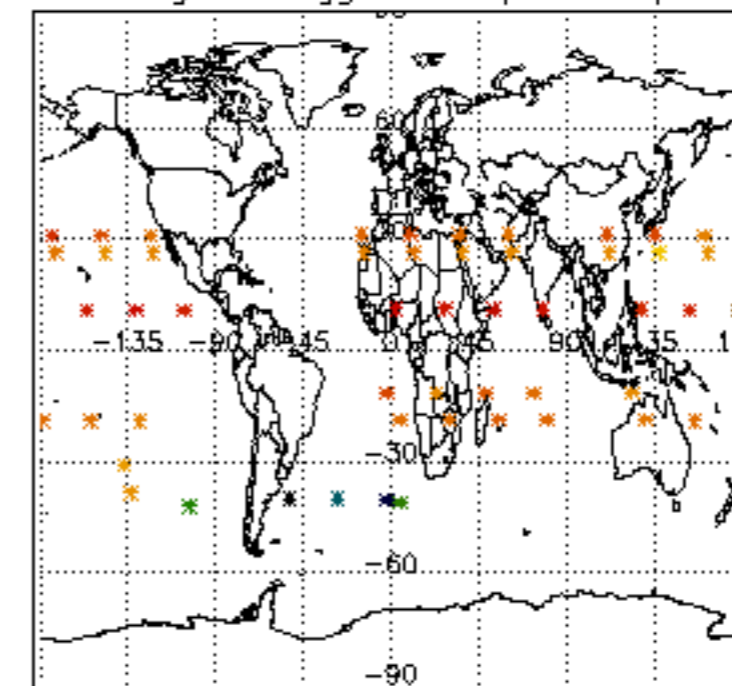
Percentage of flagged data per H2O profile

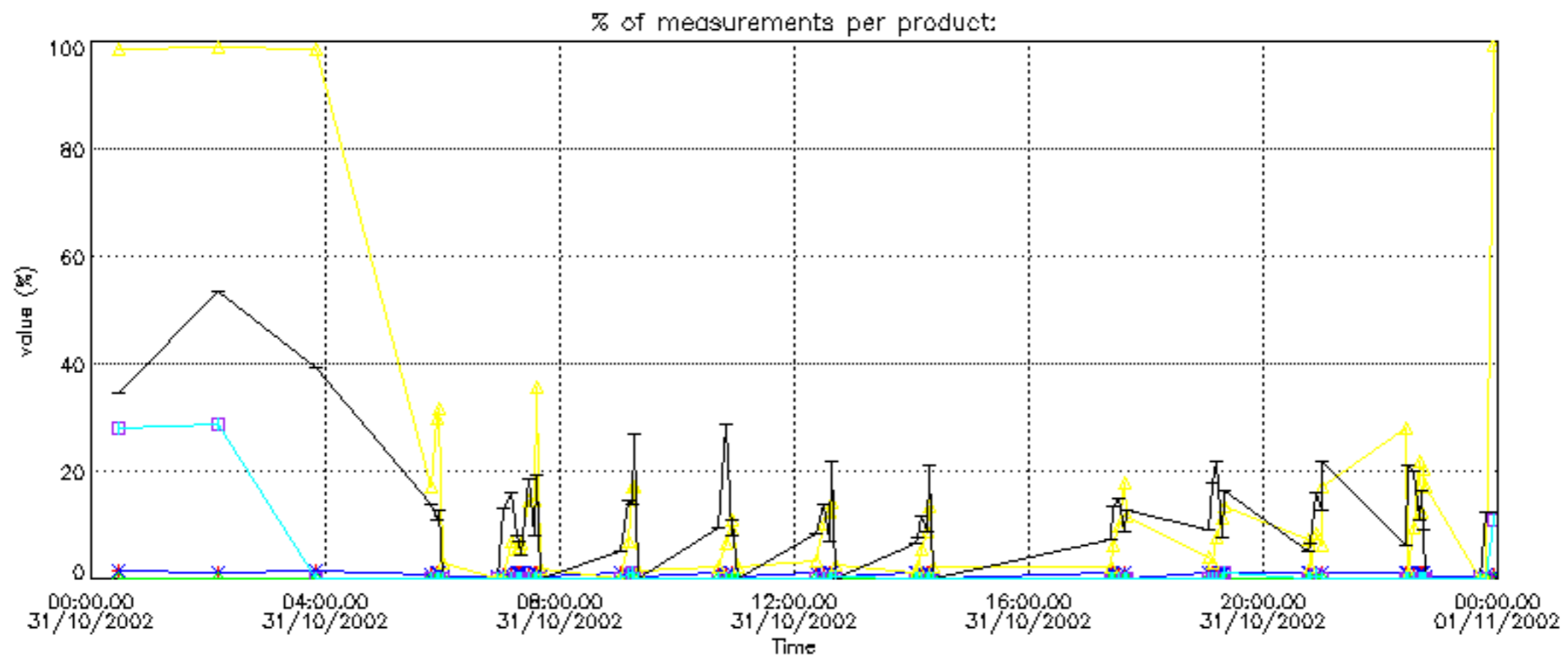


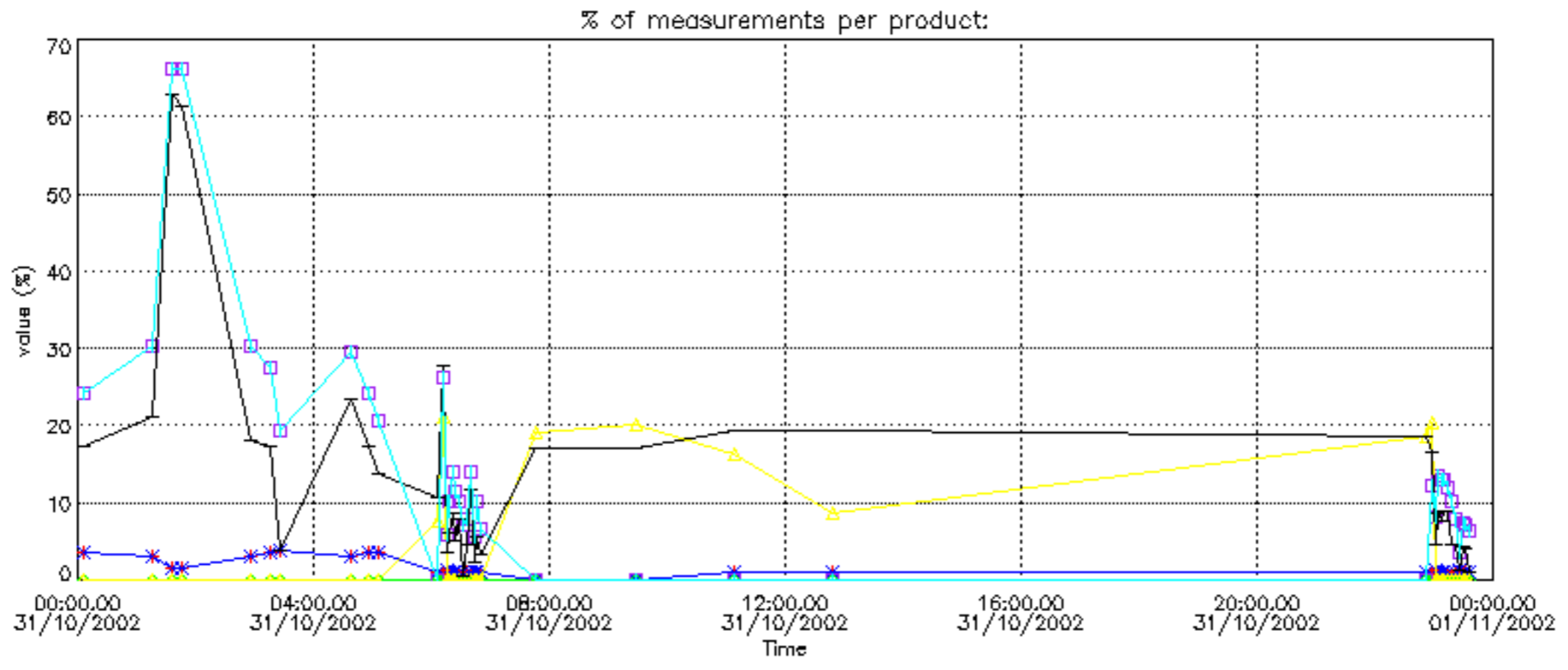
Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

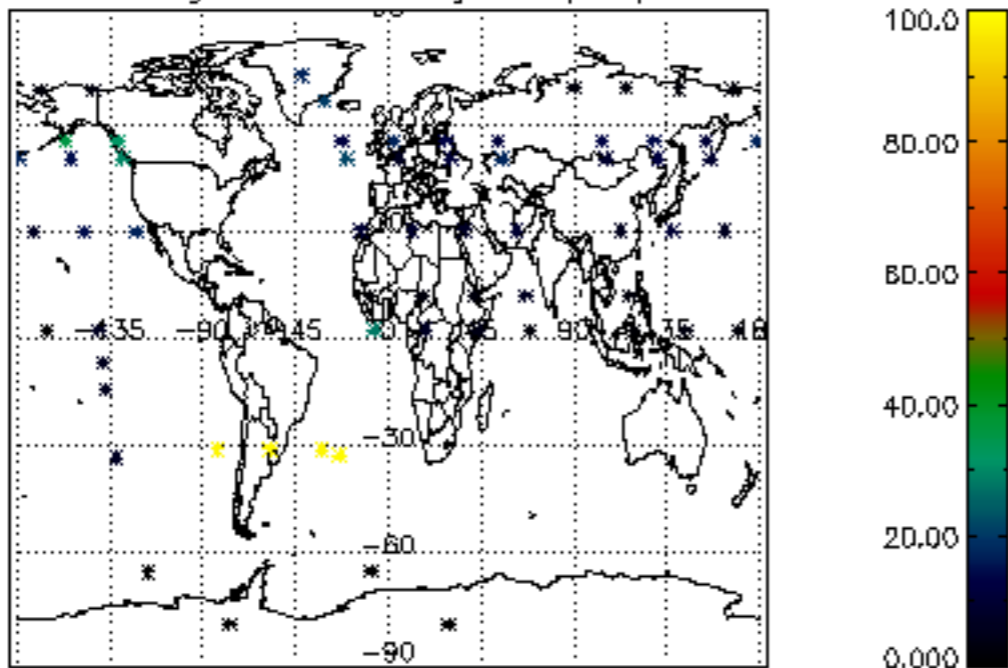




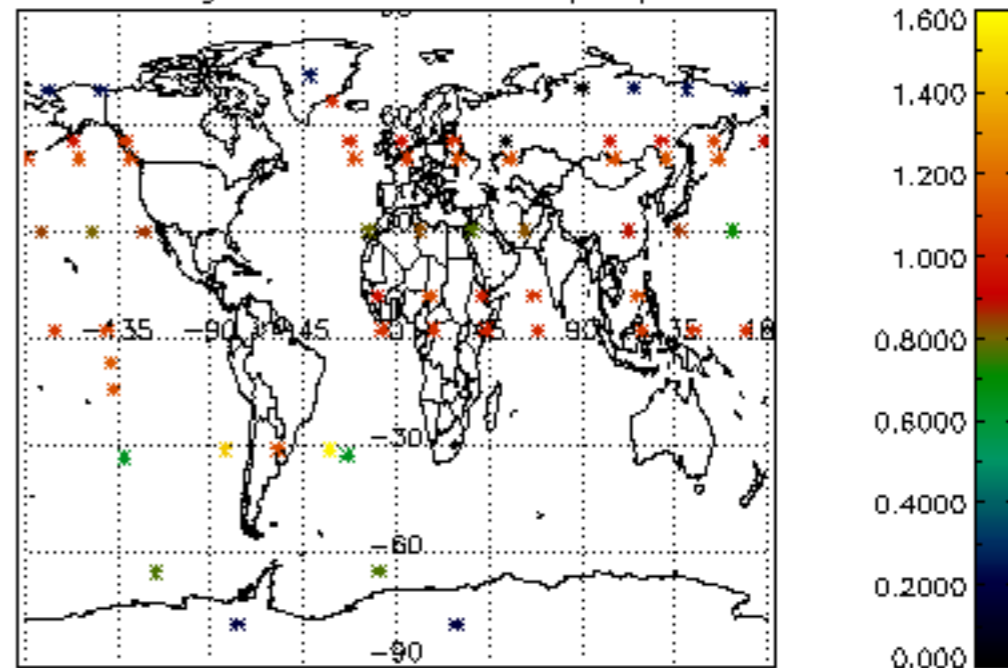




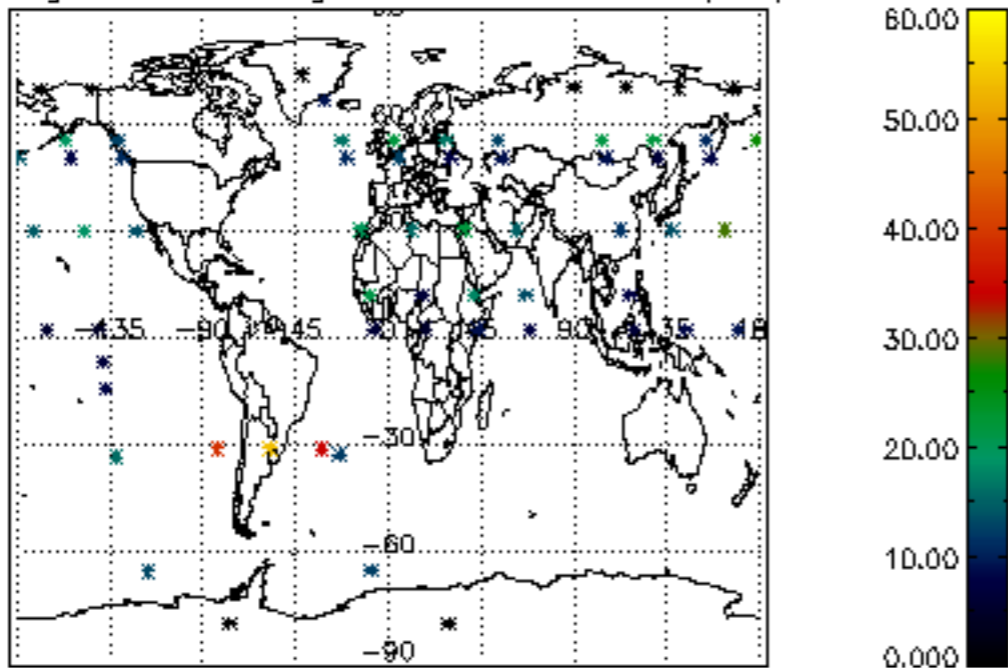
Percentage of cosmic ray hits per profile



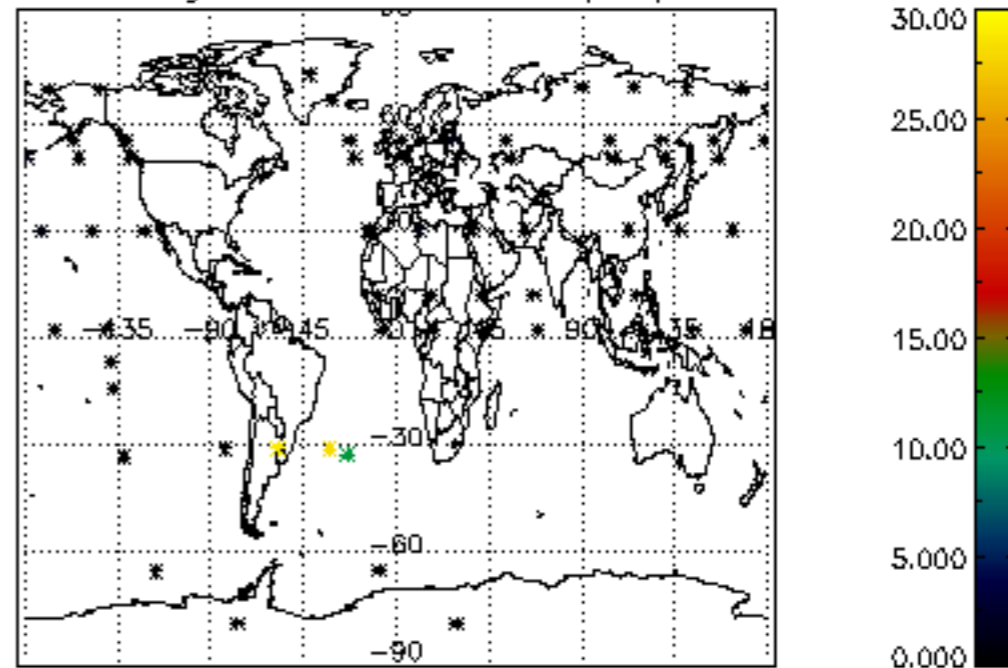
Percentage of datation errors per profile



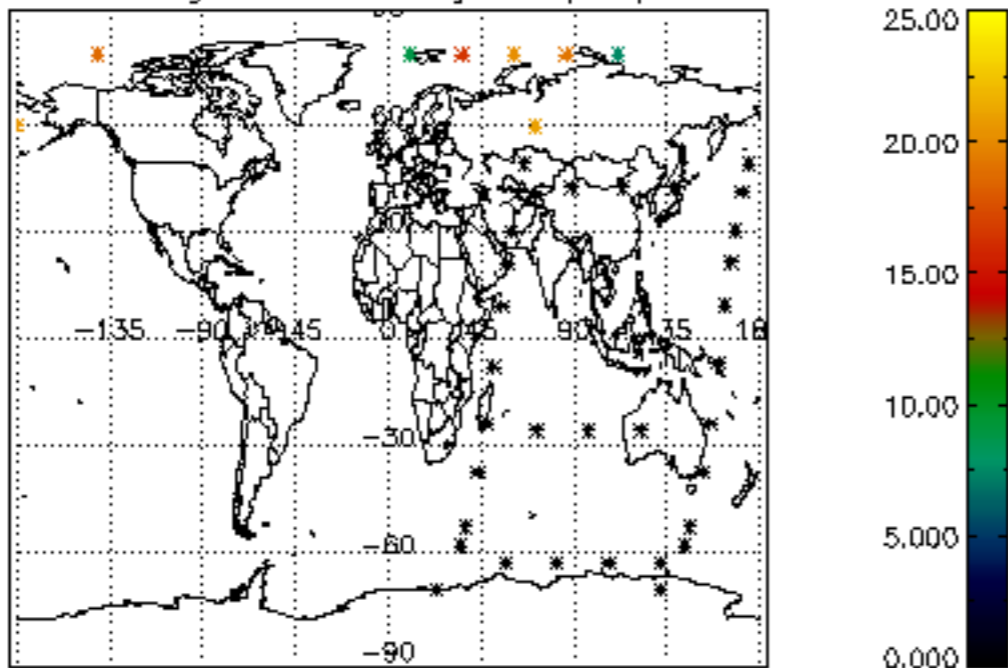
Percentage of star falling outside central band per profile



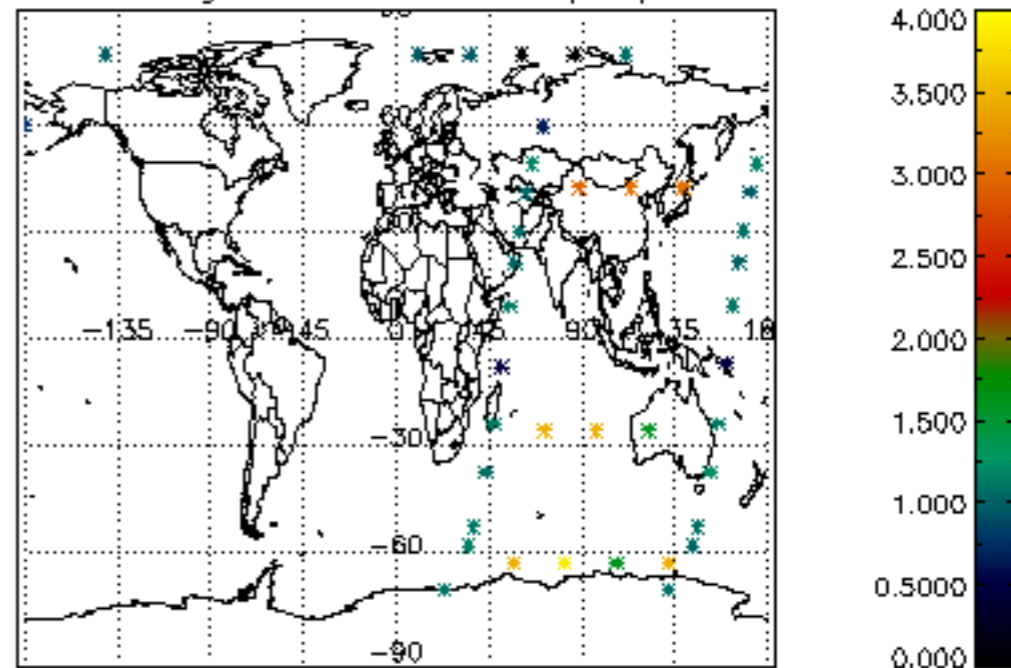
Percentage of saturation errors per profile



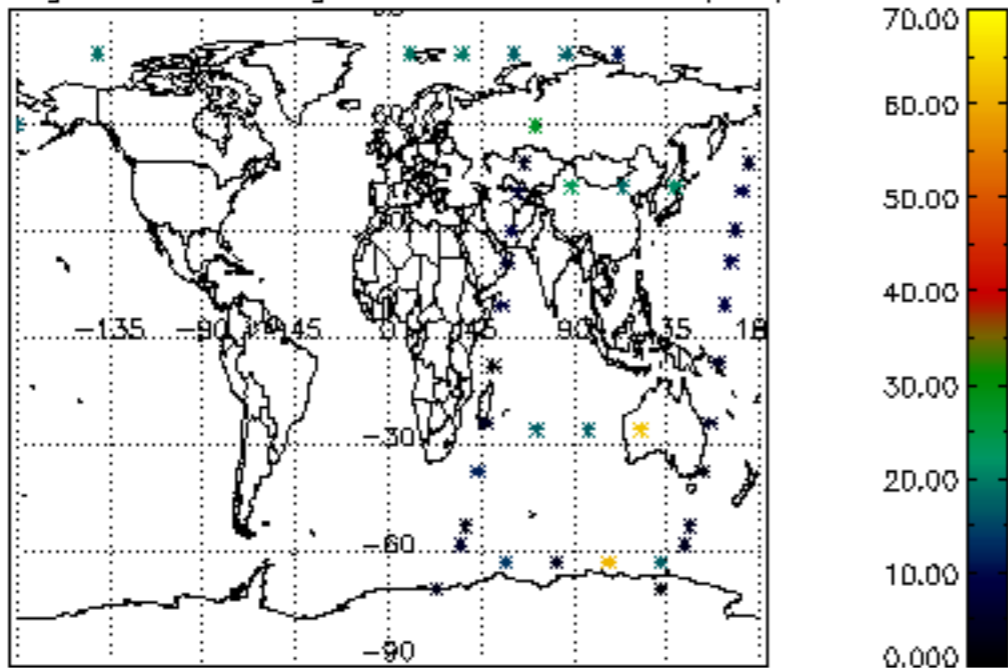
Percentage of cosmic ray hits per profile



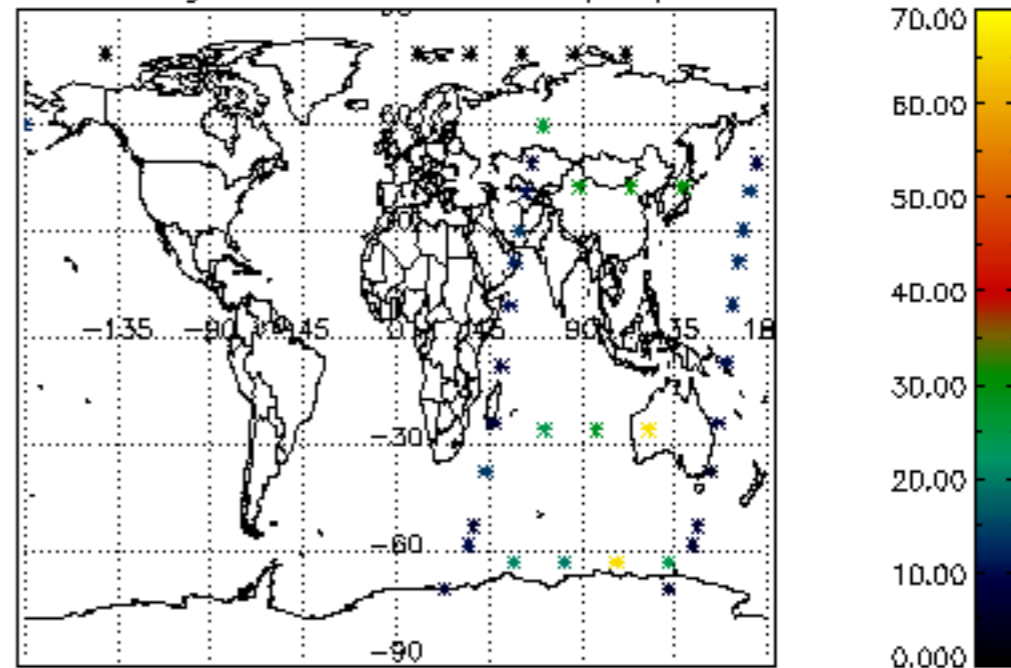
Percentage of datation errors per profile

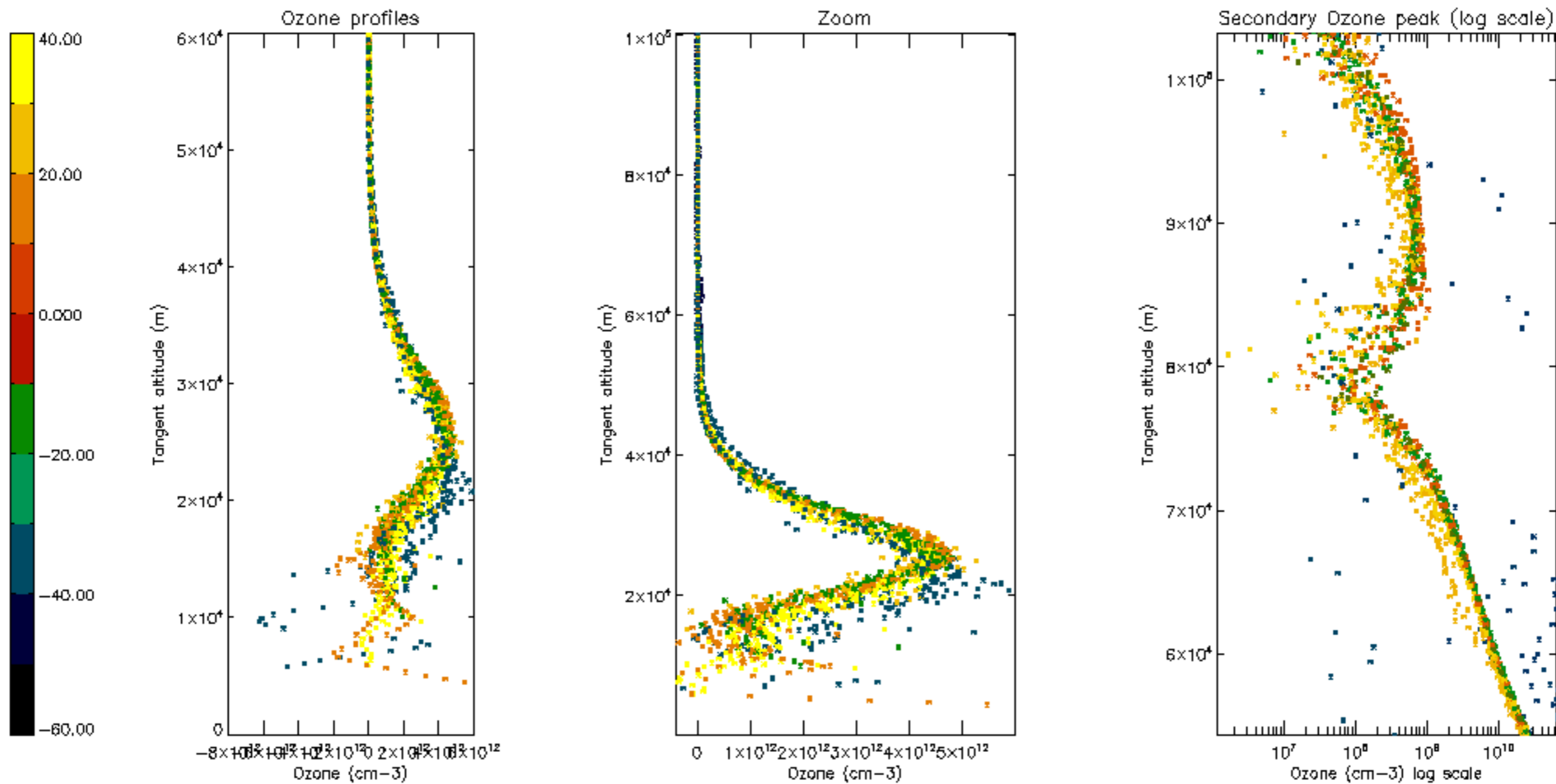


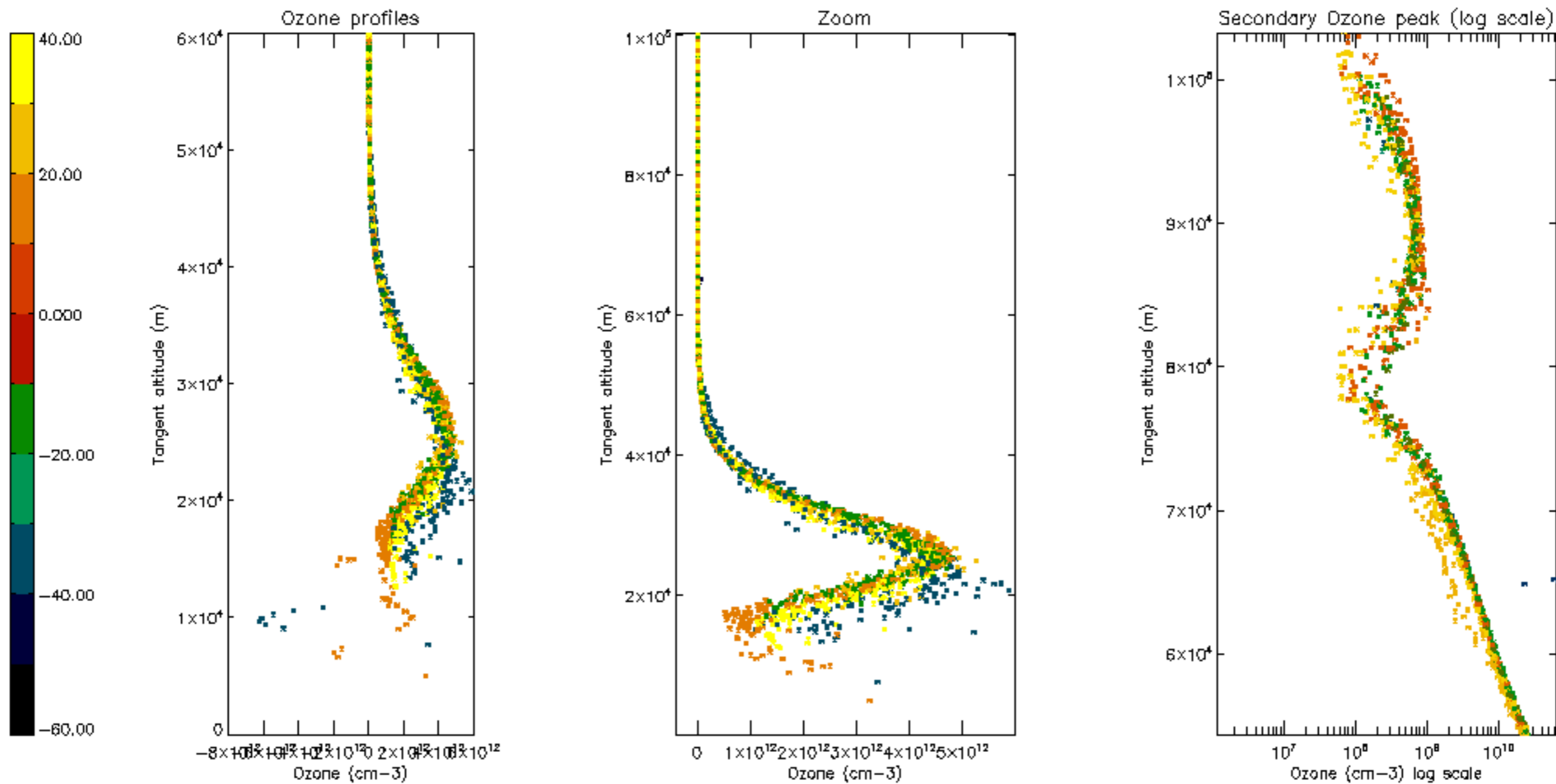
Percentage of star falling outside central band per profile

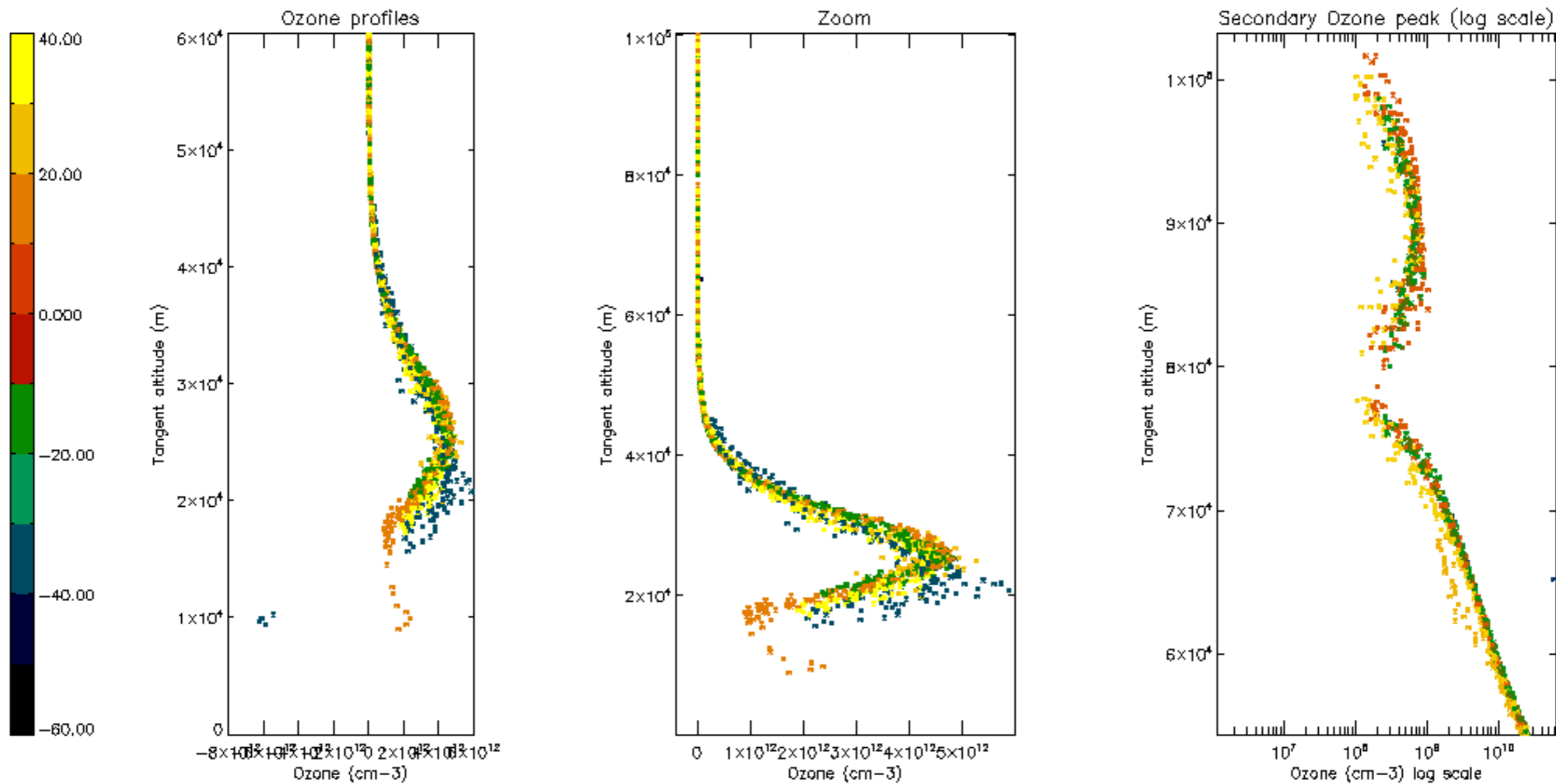


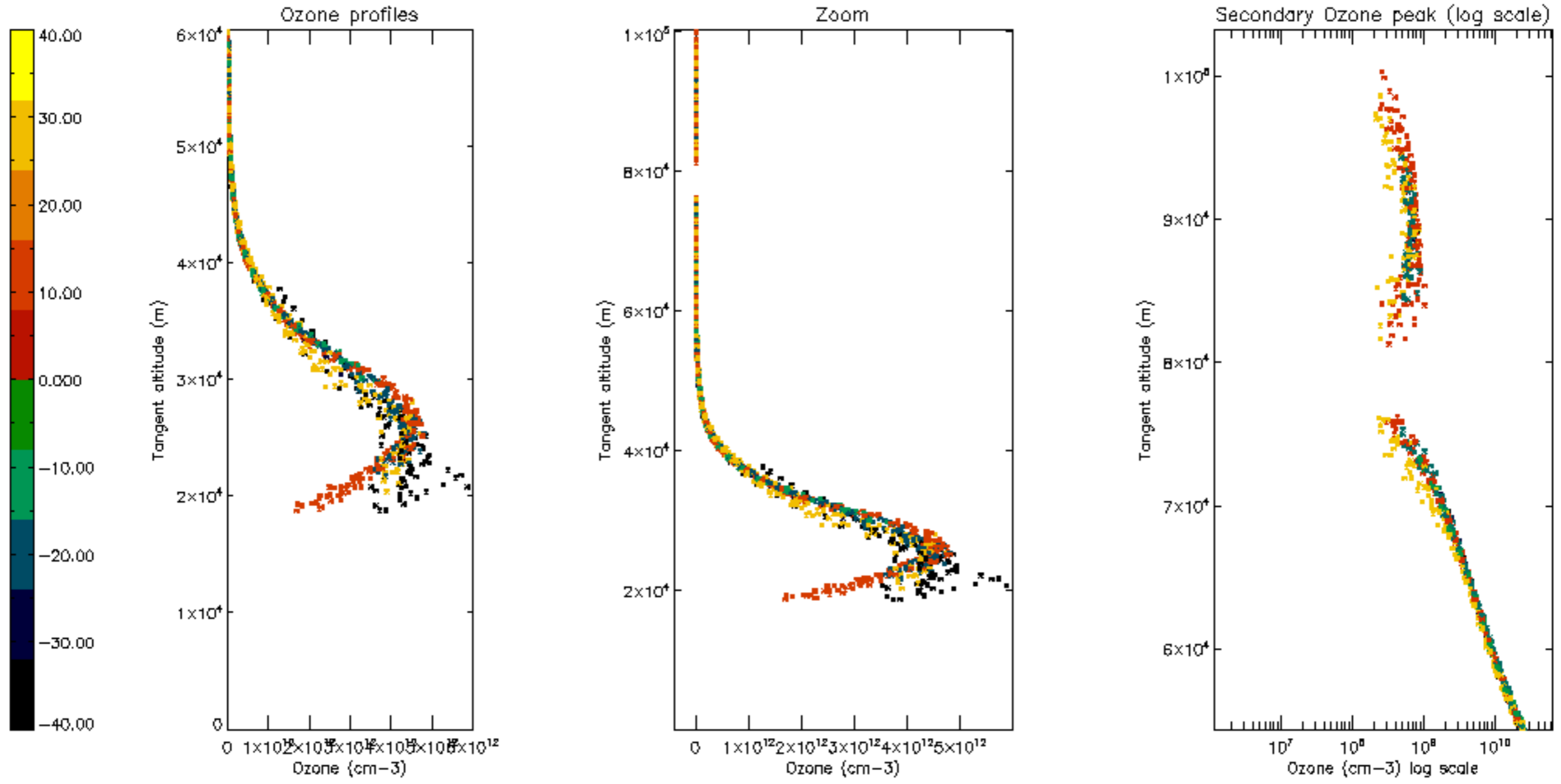
Percentage of saturation errors per profile

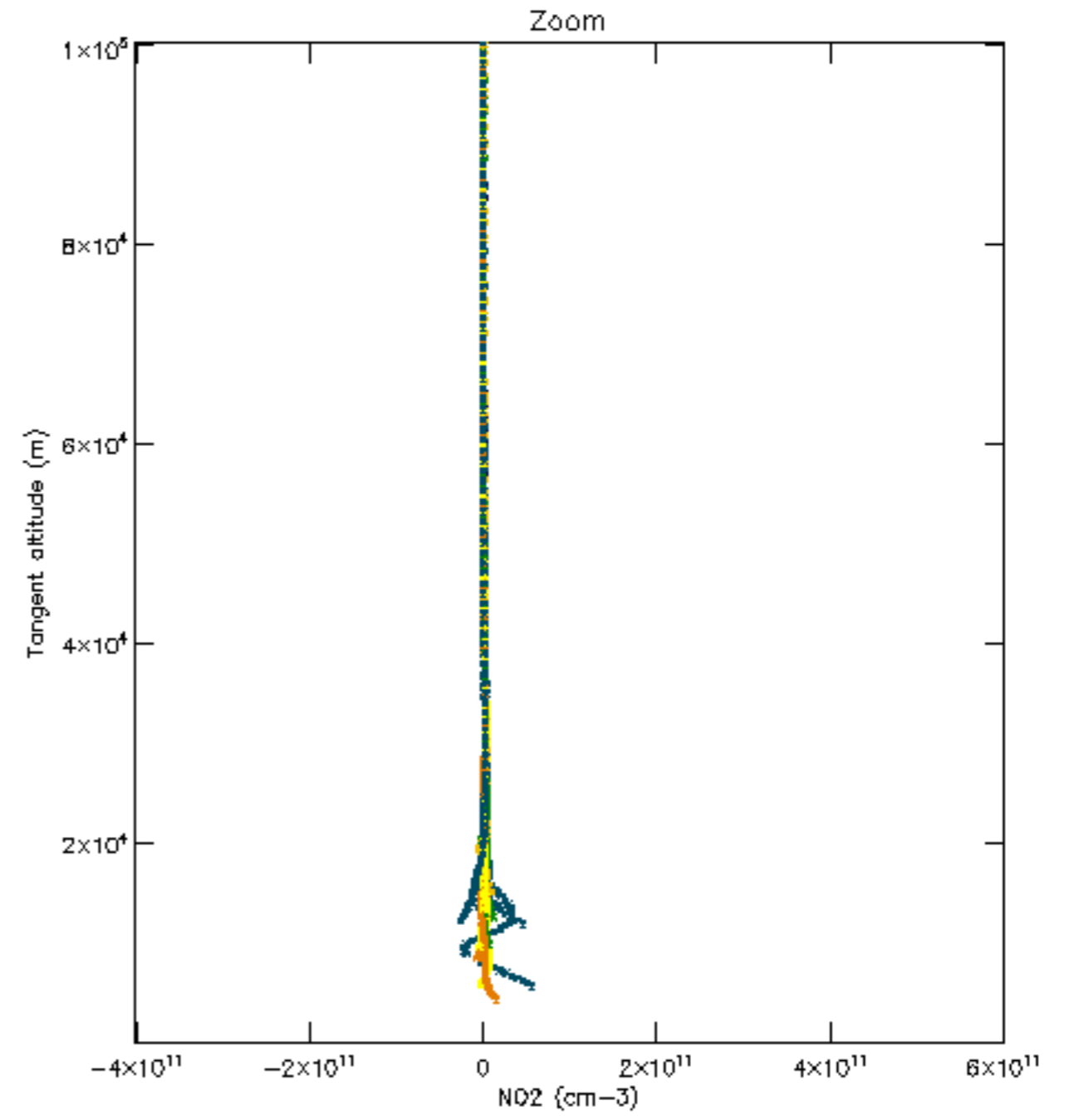
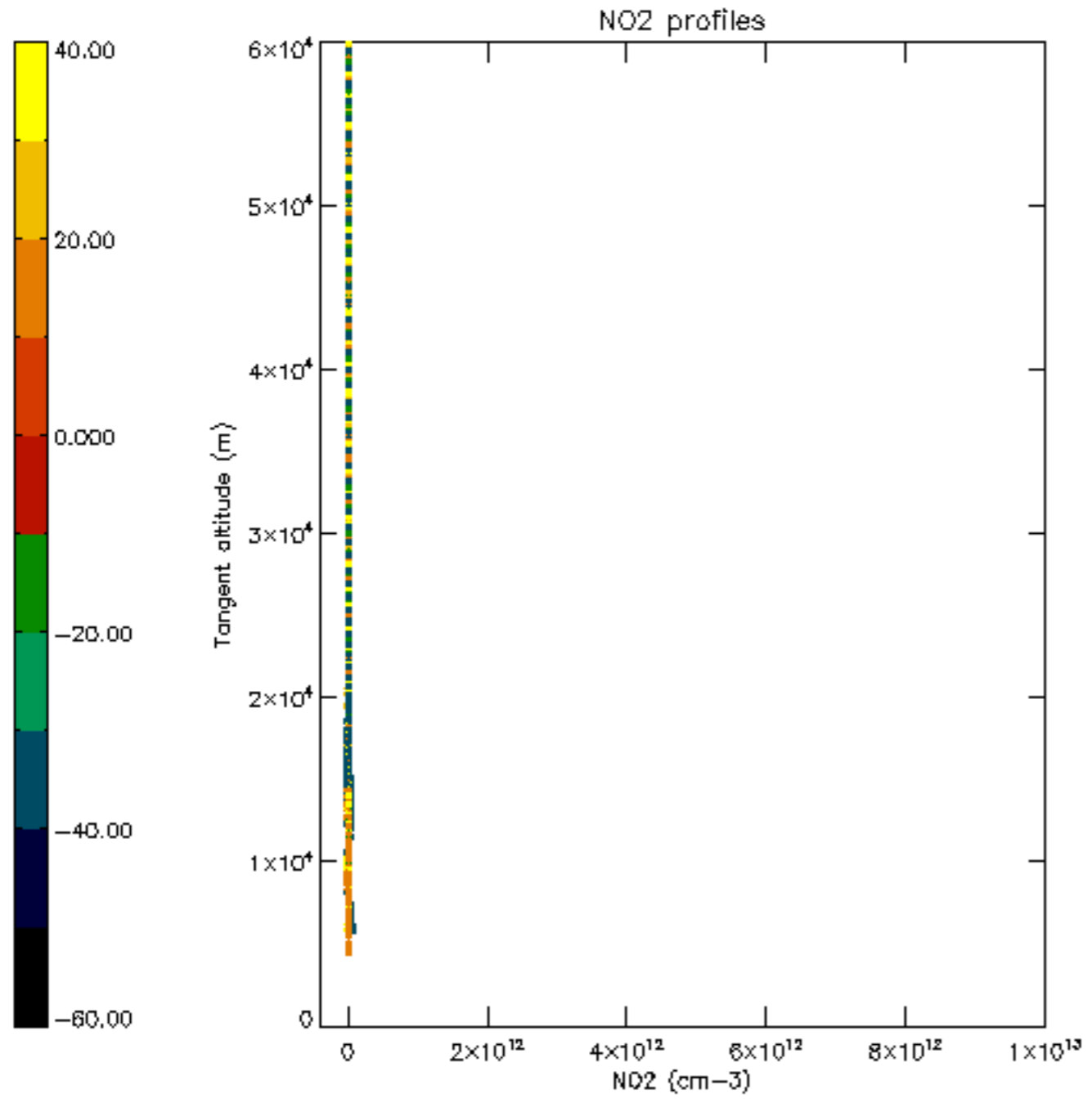


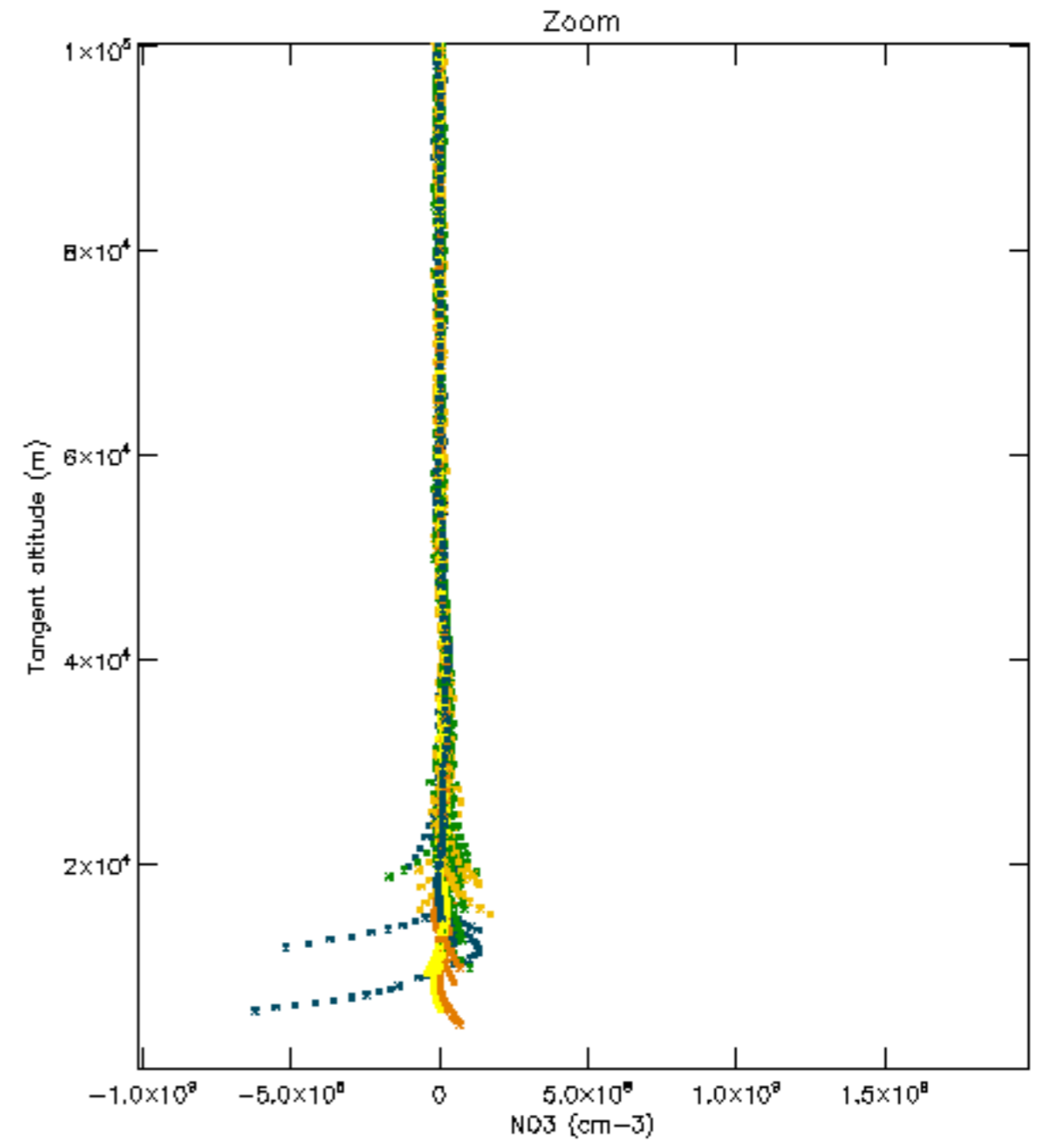
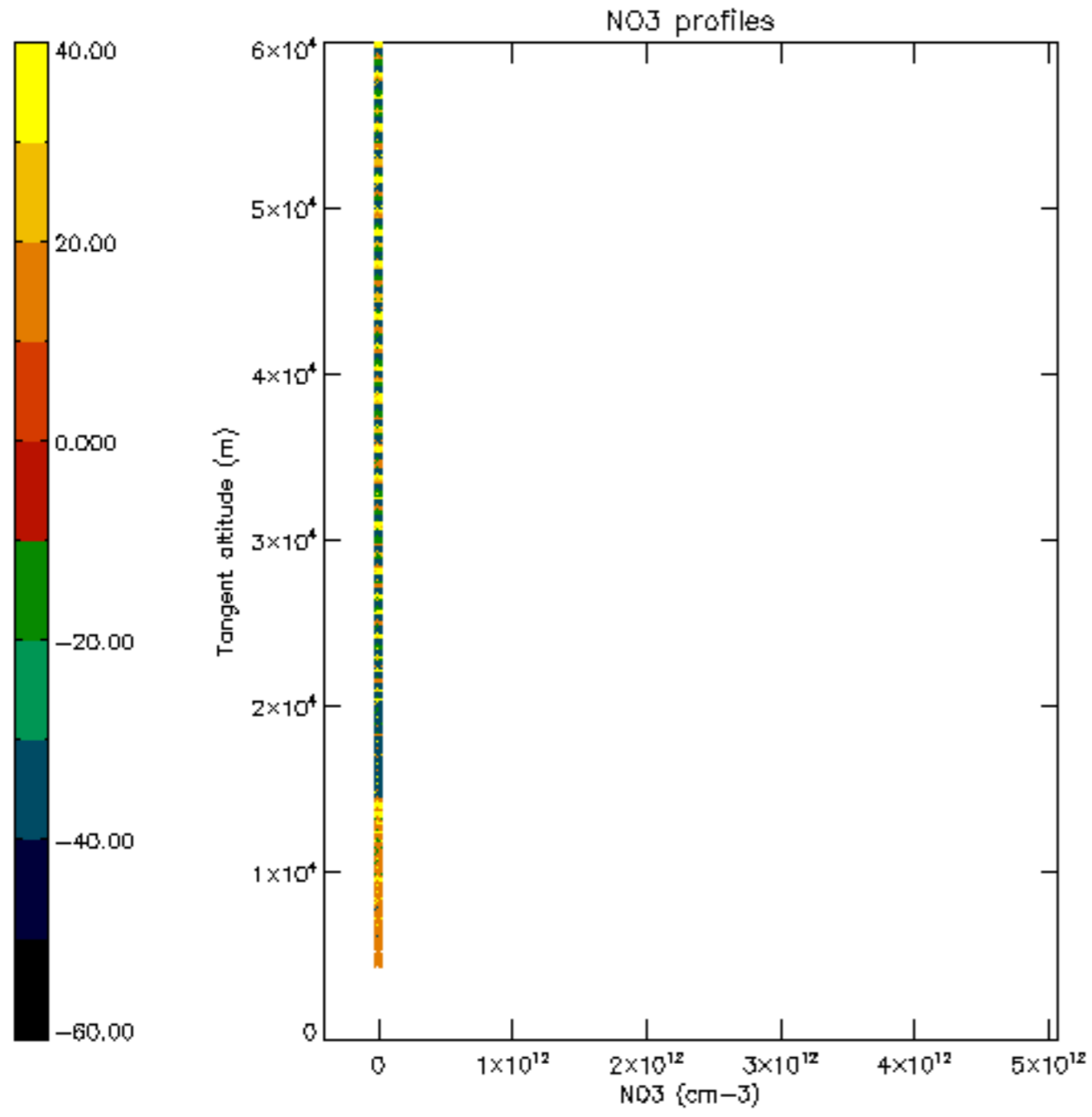




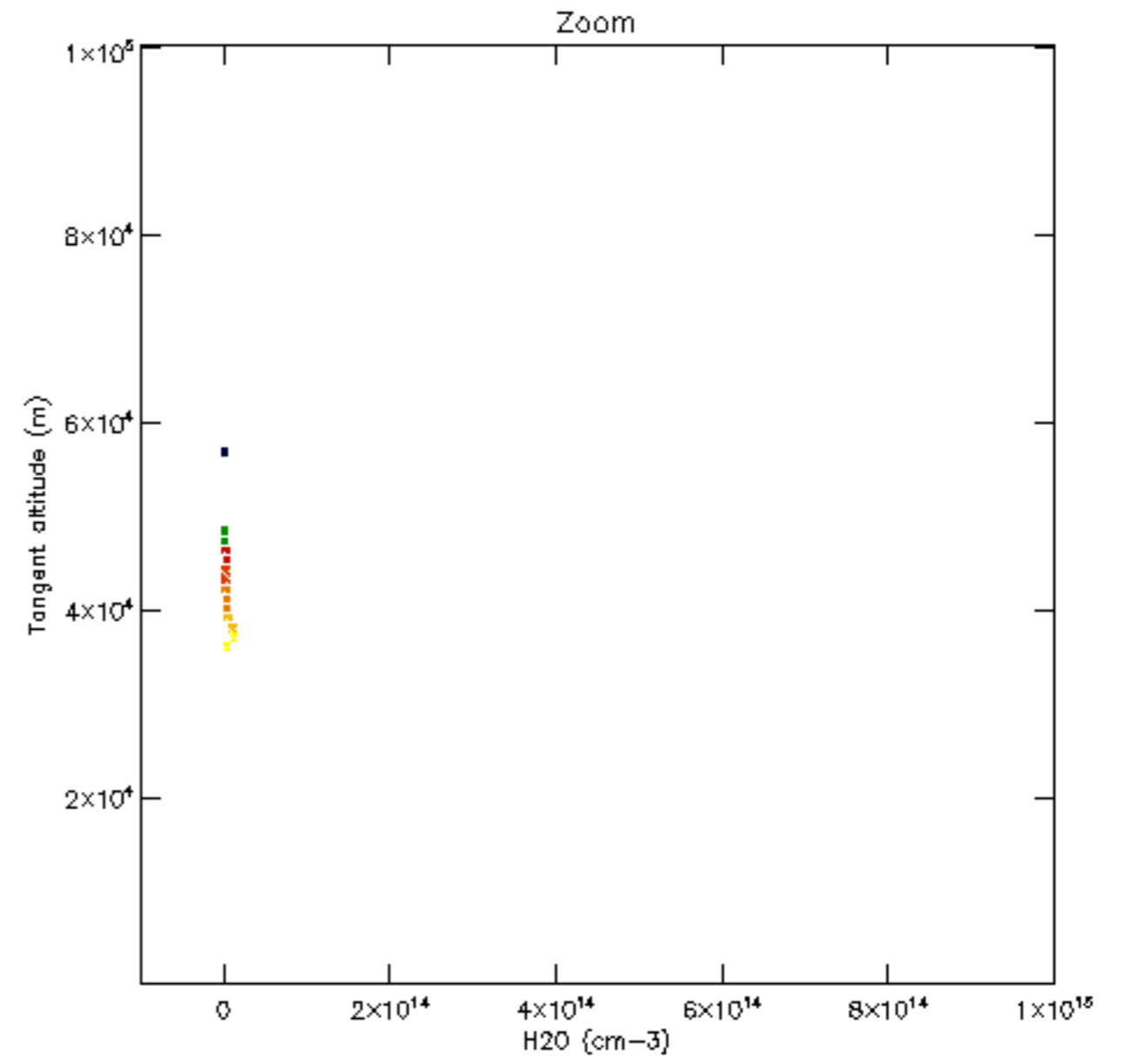
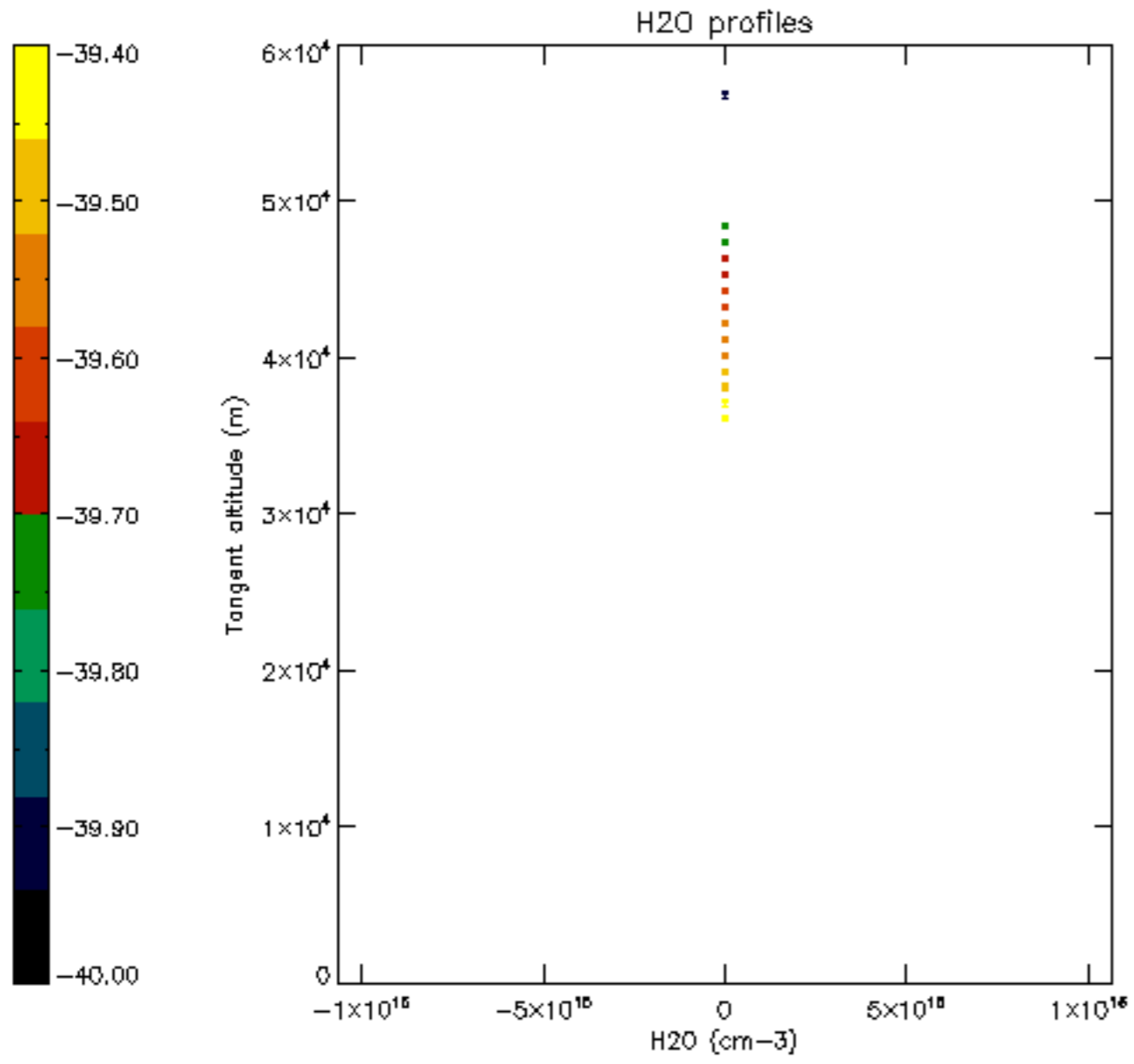


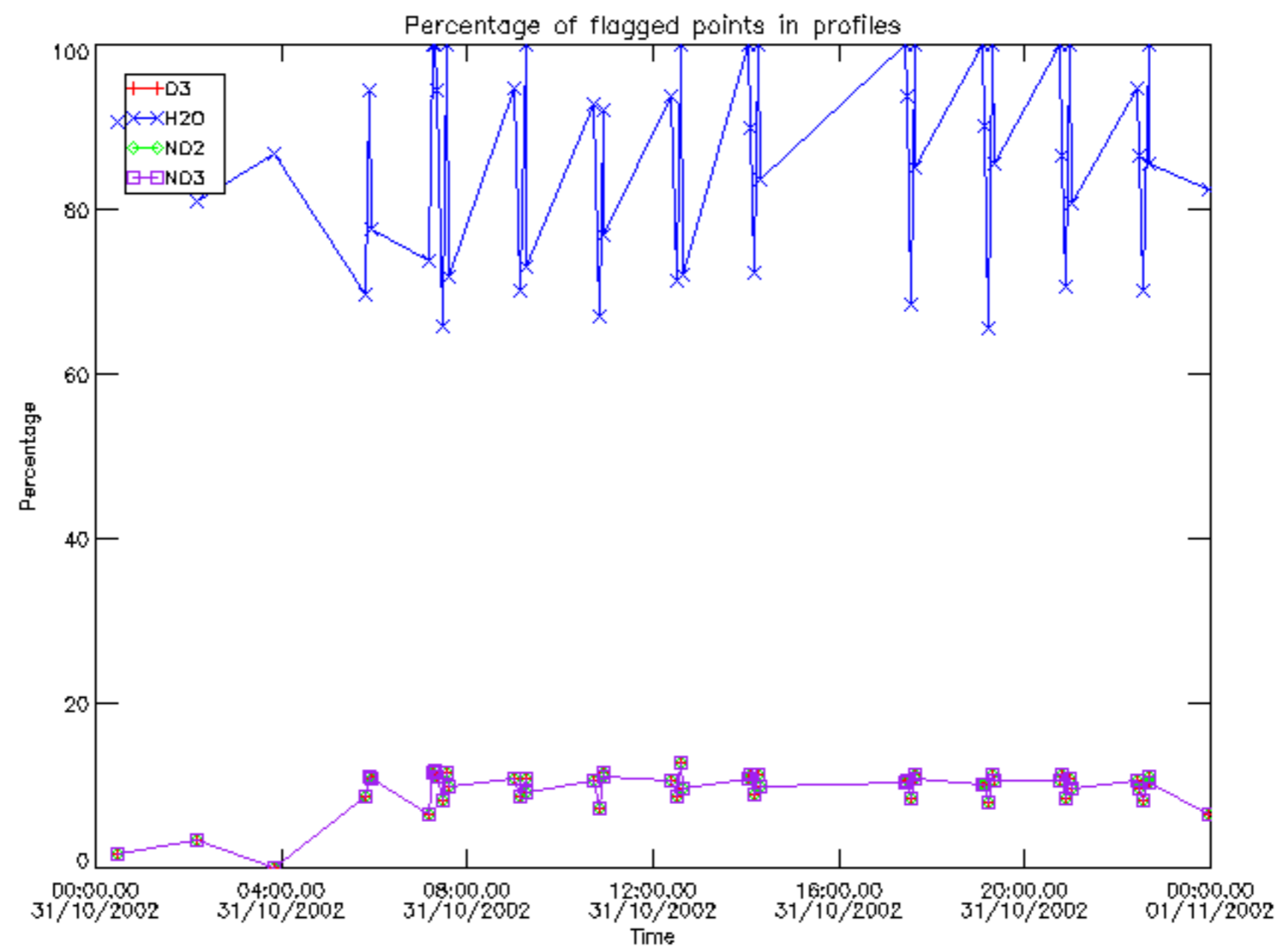




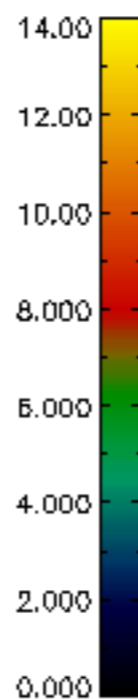
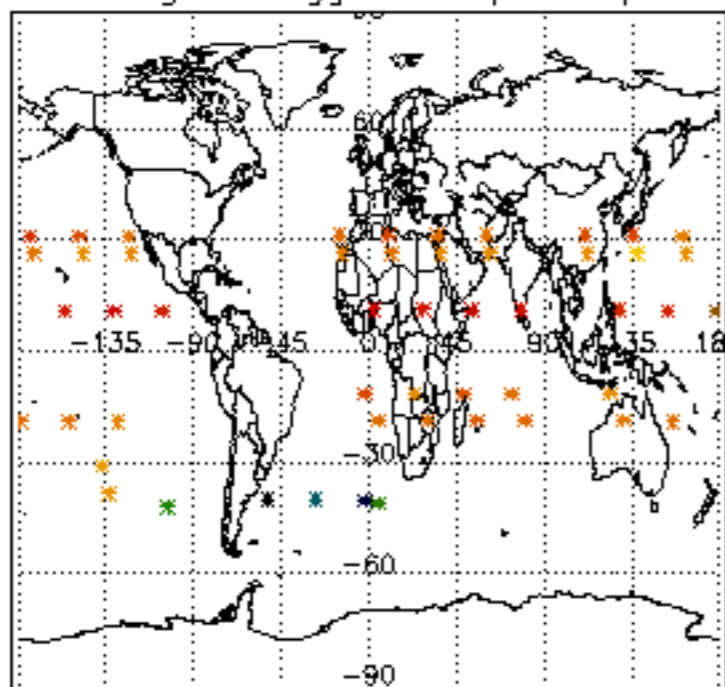




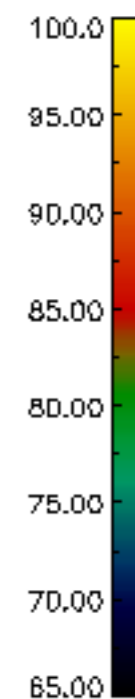
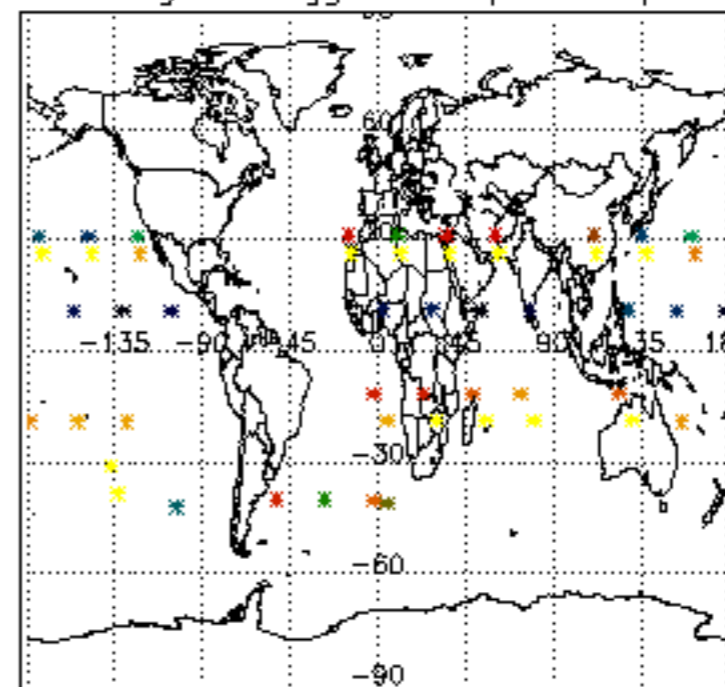




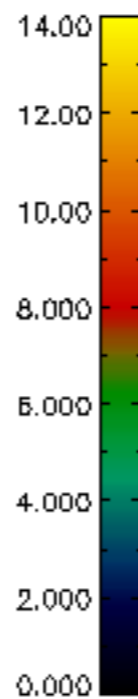
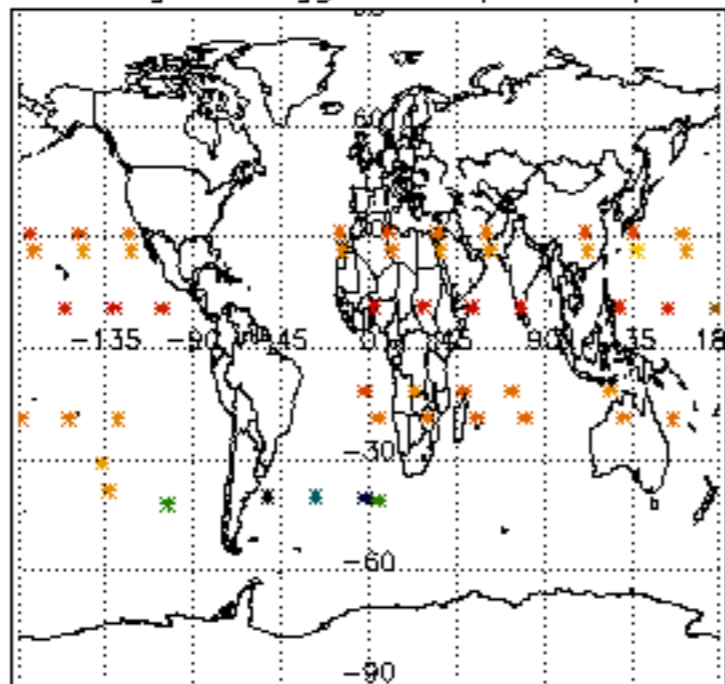
Percentage of flagged data per D3 profile



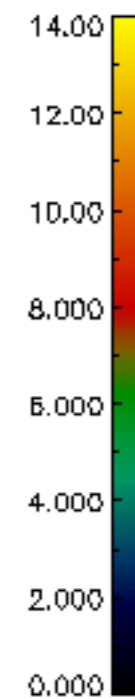
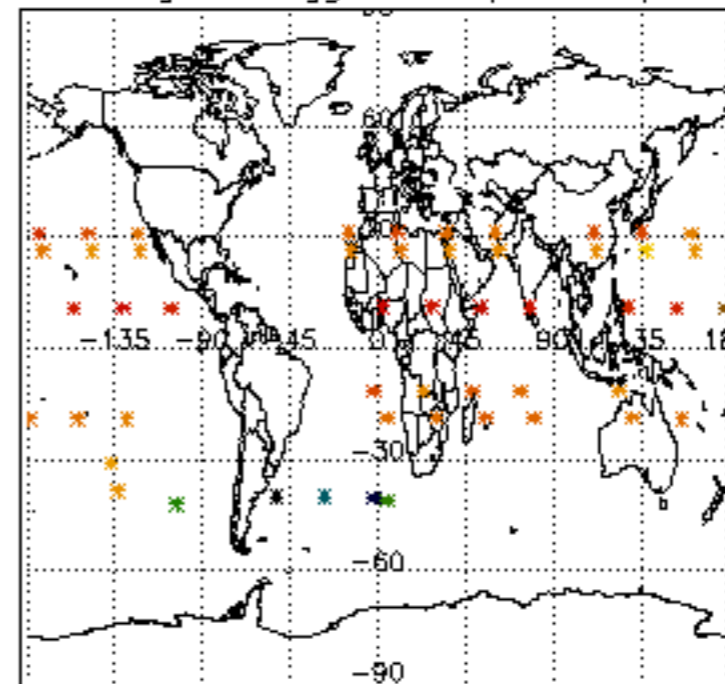
Percentage of flagged data per H2O profile

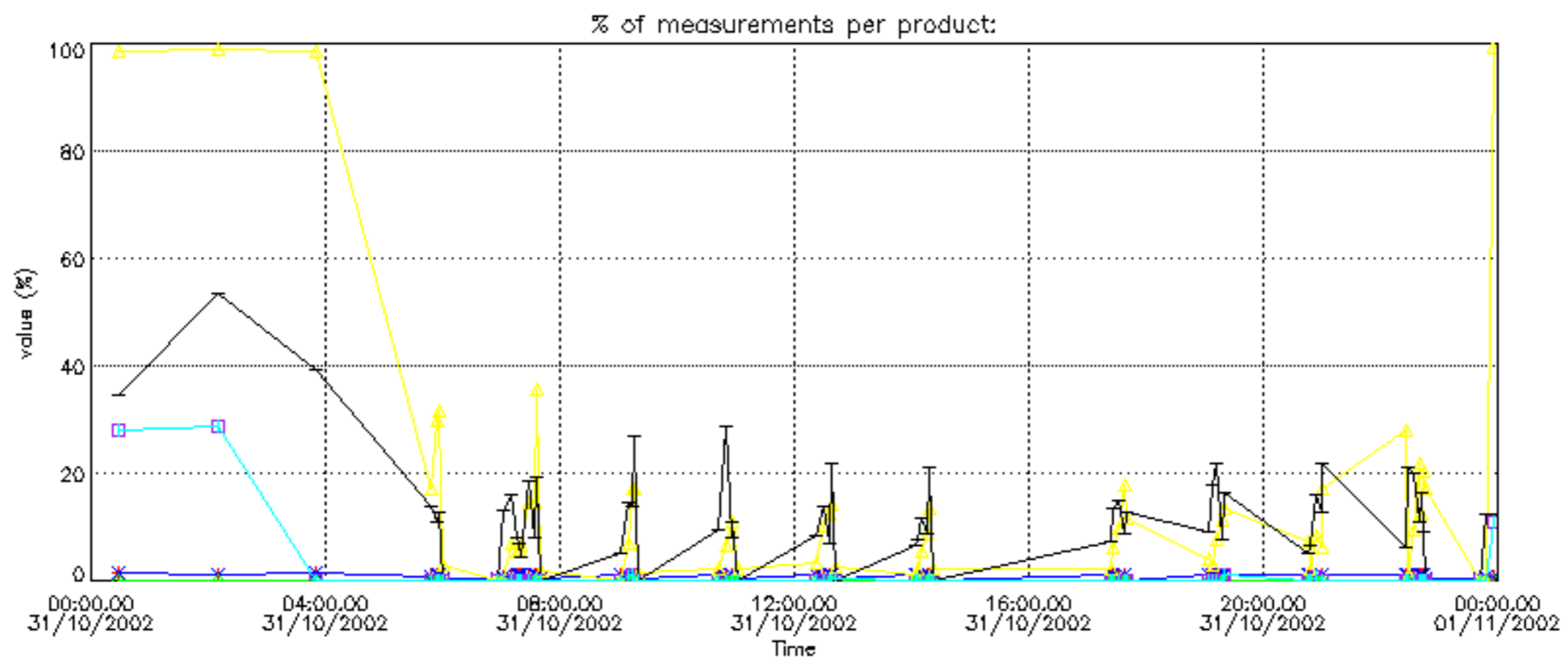


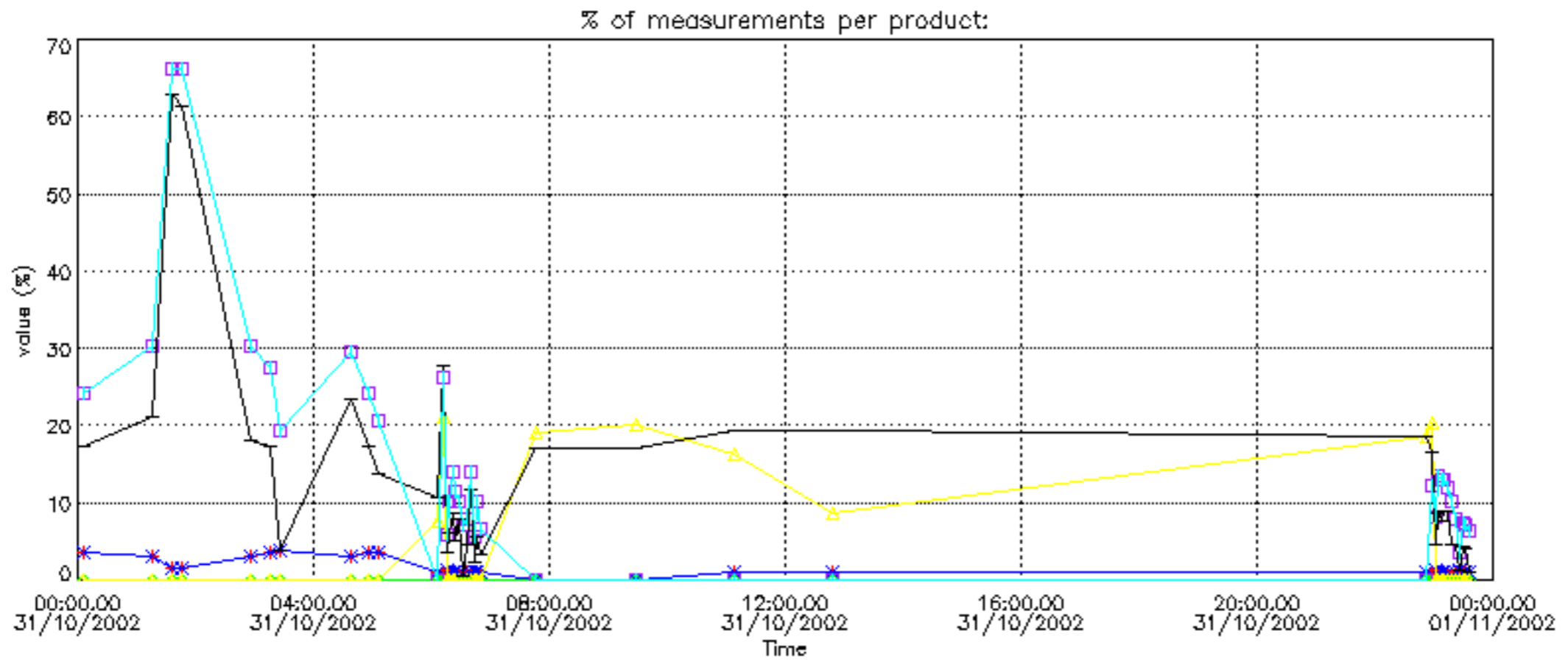
Percentage of flagged data per NO2 profile



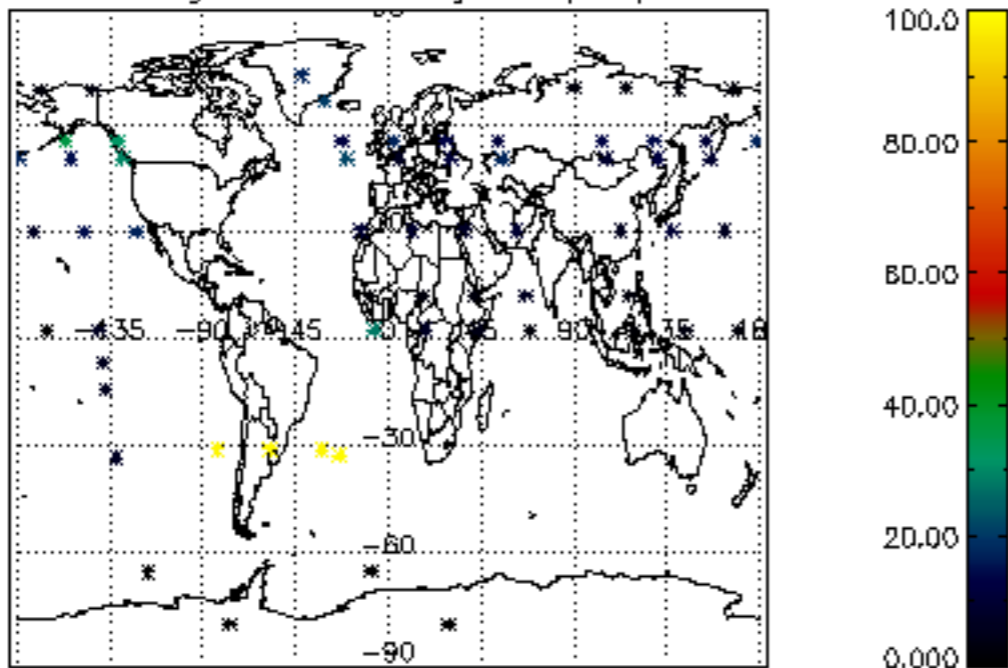
Percentage of flagged data per NO3 profile



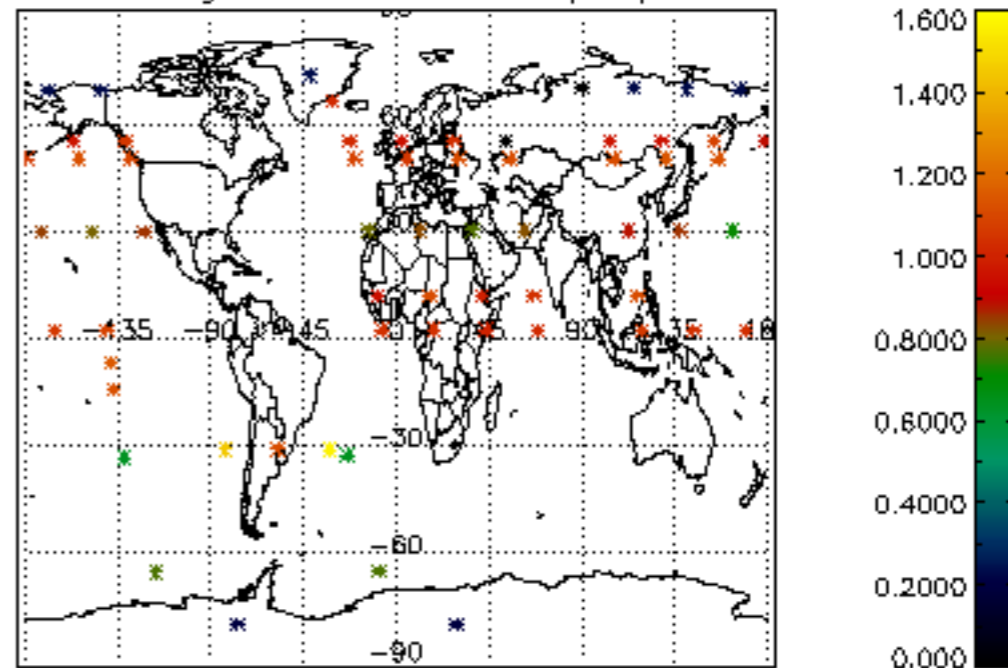




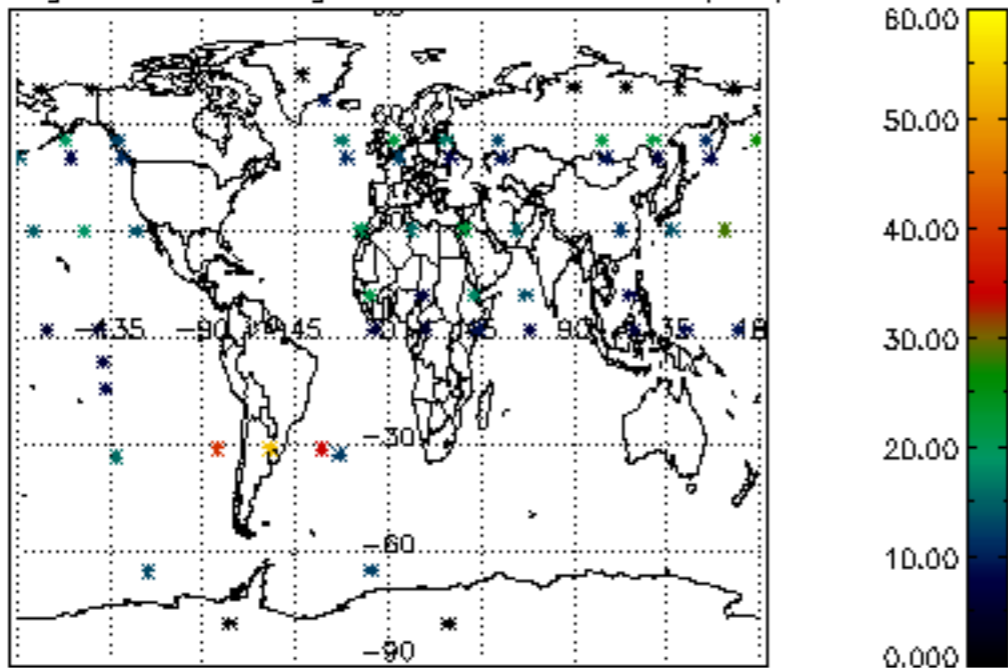
Percentage of cosmic ray hits per profile



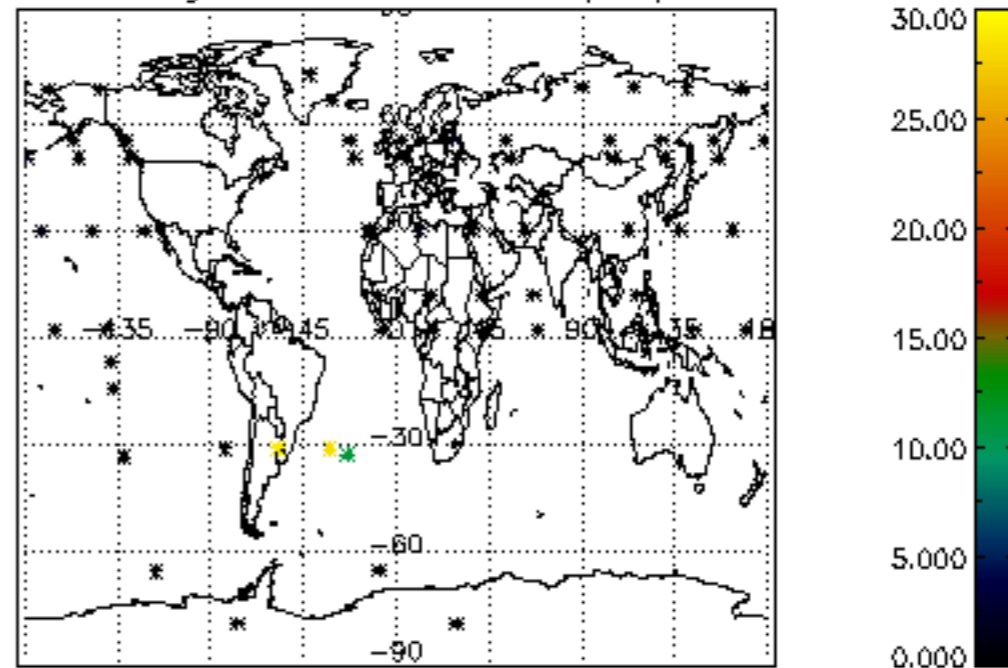
Percentage of datation errors per profile



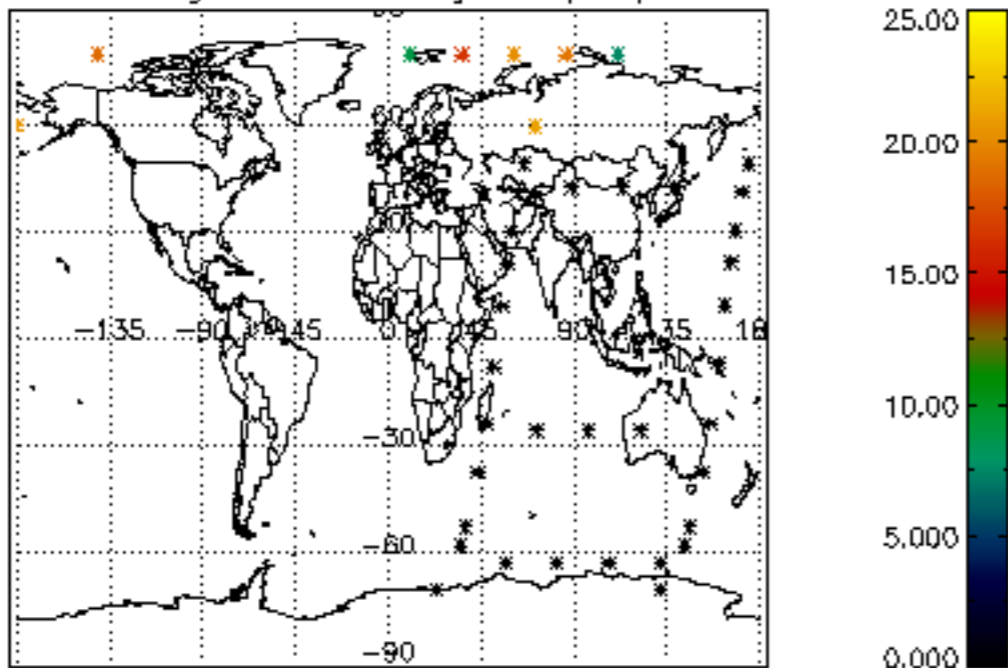
Percentage of star falling outside central band per profile



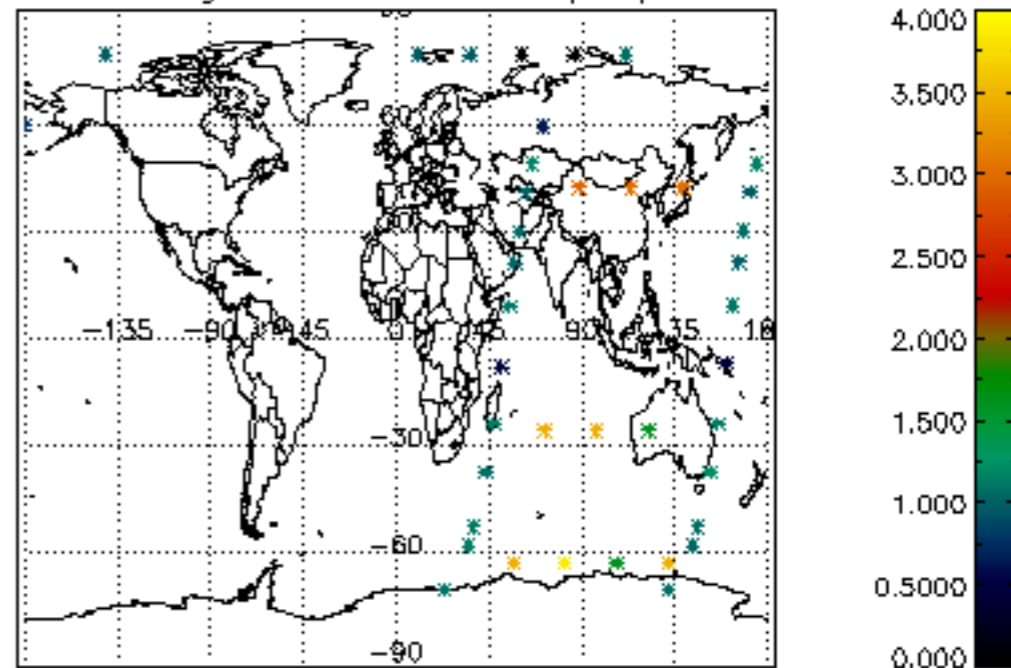
Percentage of saturation errors per profile



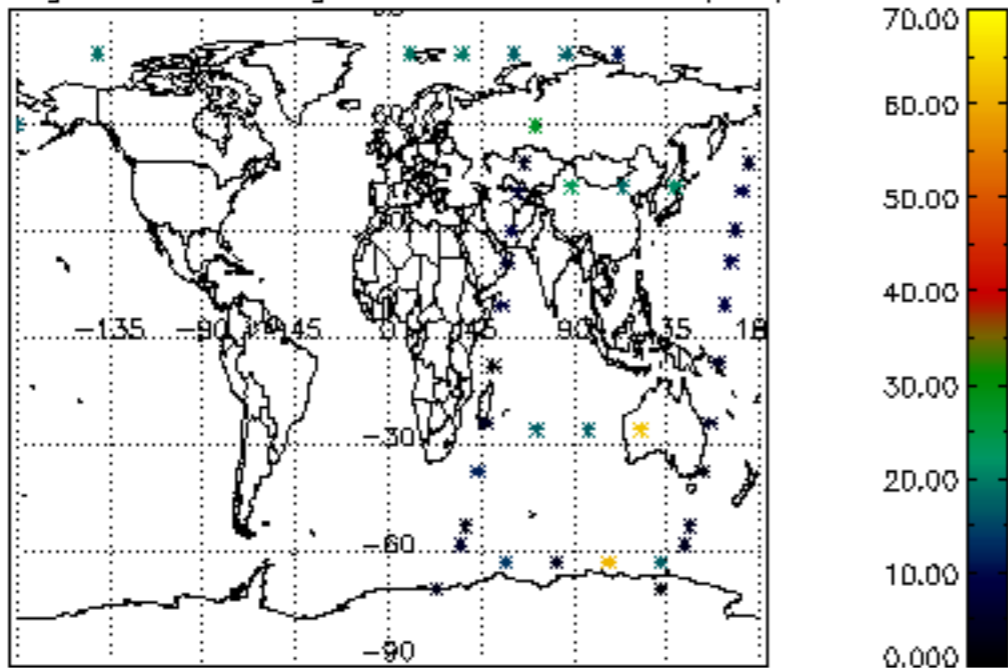
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

