

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	19APR2013 09:56:20
Data source version	GOMOS/6.01
Start time of products	27-02-2003 (27FEB2003 00:00:00)
Stop time of products	28-02-2003 (28FEB2003 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	320
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

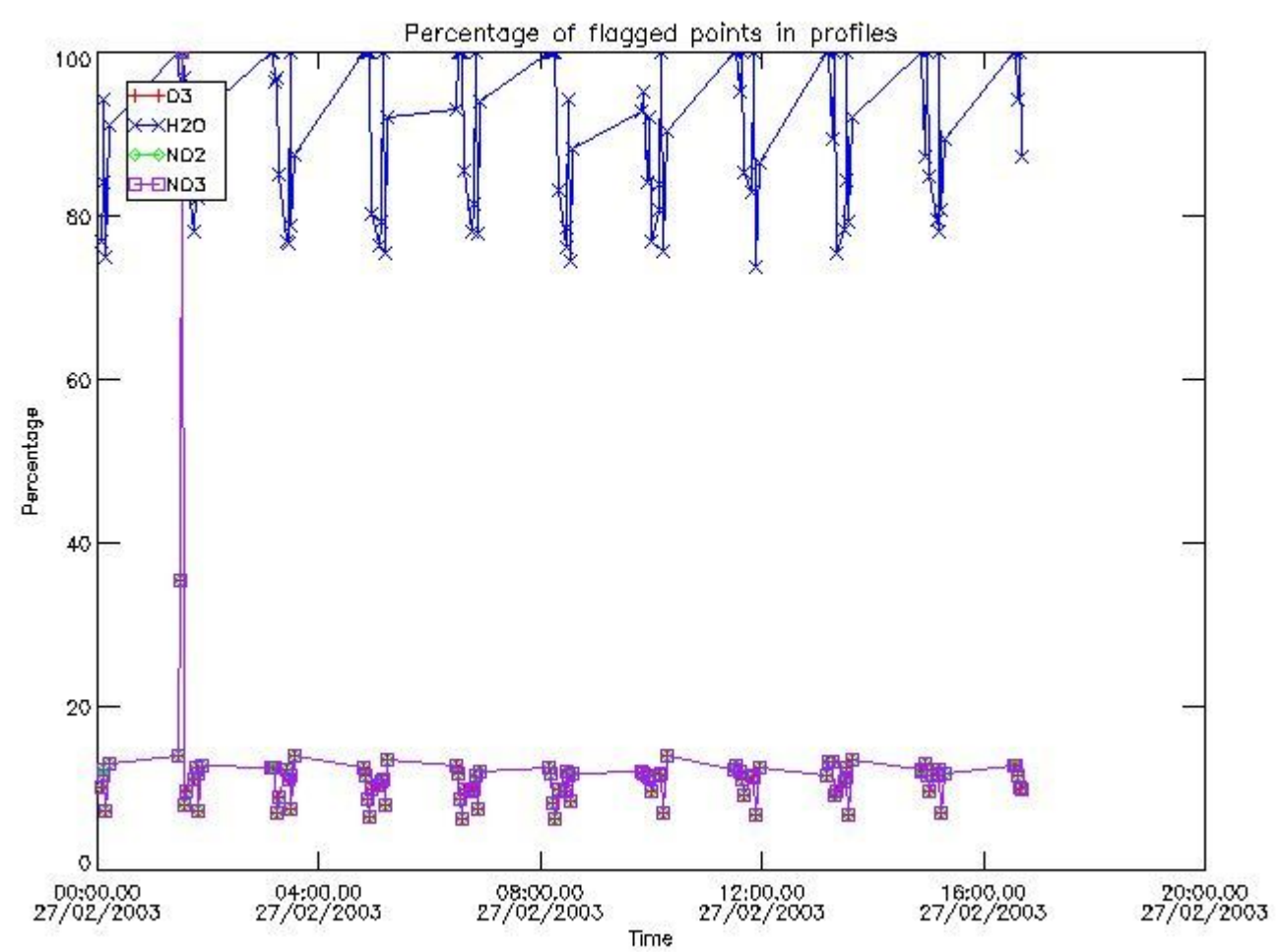
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20030227_000412_000000502014_00131_05195_5377.N1	27-FEB-2003 00:04:12	Dark	50.000	4	Alp1Cen	-0.010000	5800.0	100	5195	No
2	GOM_NL__2PRFIN20030227_000531_000000422014_00131_05195_5378.N1	27-FEB-2003 00:05:31	Dark	41.500	10	Bet Cen	0.610000	28000.	83	5195	No
3	GOM_NL__2PRFIN20030227_000715_000000442014_00131_05195_5379.N1	27-FEB-2003 00:07:15	Dark	44.000	77	Eps Cen	2.3030	28000.	88	5195	No
4	GOM_NL__2PRFIN20030227_000852_000000702014_00131_05195_5380.N1	27-FEB-2003 00:08:52	Dark	70.000	54	5The Cen	2.0550	4500.0	140	5195	No
5	GOM_NL__2PRFIN20030227_001233_000000402014_00131_05195_5381.N1	27-FEB-2003 00:12:33	Dark	39.500	71	lot Car	2.2460	7700.0	79	5195	No
6	GOM_NL__2PRFIN20030227_001405_000000382014_00131_05195_5382.N1	27-FEB-2003 00:14:05	Straylight	38.000	46	Del Vel	1.9540	10600.	76	5195	No
7	GOM_NL__2PRFIN20030227_001657_000000442014_00131_05195_5383.N1	27-FEB-2003 00:16:57	Straylight	44.000	65	Lam Vel	2.2040	4400.0	88	5195	No
8	GOM_NL__2PRFIN20030227_001917_000000742014_00131_05195_5384.N1	27-FEB-2003 00:19:17	Straylight	74.000	106	9Bet Crv	2.6480	5600.0	148	5195	No
9	GOM_NL__2PRFIN20030227_002231_000000712014_00131_05195_5385.N1	27-FEB-2003 00:22:31	Straylight	70.500	100	4Gam Crv	2.5800	13100.	141	5195	No
10	GOM_NL__2PRFIN20030227_002630_000000502014_00131_05195_5386.N1	27-FEB-2003 00:26:30	Tw_i_and_stray	50.000	48	30Alp Hya	1.9770	4100.0	100	5195	No
11	GOM_NL__2PRFIN20030227_003251_000000452014_00131_05195_5387.N1	27-FEB-2003 00:32:51	Bright	45.000	22	32Alp Leo	1.3600	15200.	90	5195	No
12	GOM_NL__2PRFIN20030227_003610_000000412014_00131_05195_5388.N1	27-FEB-2003 00:36:10	Bright	41.000	166	17Eps Leo	2.9800	6000.0	82	5195	No
13	GOM_NL__2PRFIN20030227_003848_000000382014_00131_05195_5389.N1	27-FEB-2003 00:38:48	Bright	38.000	24	66Alp Gem	1.5800	10200.	76	5195	No
14	GOM_NL__2PRFIN20030227_004442_000000472014_00131_05195_5390.N1	27-FEB-2003 00:44:42	Bright	46.500	174	52Psi UMa	3.0040	4400.0	93	5195	No
15	GOM_NL__2PRFIN20030227_004719_000000412014_00131_05195_5391.N1	27-FEB-2003 00:47:19	Bright	41.000	82	48Bet UMa	2.3650	10600.	82	5195	No
16	GOM_NL__2PRFIN20030227_004846_000000472014_00131_05195_5392.N1	27-FEB-2003 00:48:46	Bright	47.000	87	64Gam UMa	2.4330	11000.	94	5195	No
17	GOM_NL__2PRFIN20030227_005207_000000502014_00131_05195_5393.N1	27-FEB-2003 00:52:07	Bright	50.000	32	77Eps UMa	1.7630	11000.	100	5195	No
18	GOM_NL__2PRFIN20030227_005433_000000362014_00131_05195_5394.N1	27-FEB-2003 00:54:33	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	5195	No
19	GOM_NL__2PRFIN20030227_010029_000000462014_00131_05195_5395.N1	27-FEB-2003 01:00:29	Bright	45.500	119	14Eta Dra	2.7270	4700.0	91	5195	No
20	GOM_NL__2PRFIN20030227_010446_000000452014_00131_05195_5396.N1	27-FEB-2003 01:04:46	Bright	44.500	130	23Bet Dra	2.7990	5800.0	89	5195	No
21	GOM_NL__2PRFIN20030227_010704_000000352014_00131_05195_5397.N1	27-FEB-2003 01:07:04	Bright	34.500	19	50Alp Cyg	1.2460	10500.	69	5195	No
22	GOM_NL__2PRFIN20030227_010838_000000342014_00131_05195_5398.N1	27-FEB-2003 01:08:38	Bright	34.000	66	37Gam Cyg	2.2080	5900.0	68	5195	No
23	GOM_NL__2PRFIN20030227_011010_000000342014_00131_05195_5399.N1	27-FEB-2003 01:10:10	Bright	33.500	92	53Eps Cyg	2.5000	4500.0	67	5195	No
24	GOM_NL__2PRFIN20030227_011307_000000752014_00131_05195_5400.N1	27-FEB-2003 01:13:07	Bright	75.000	133	40Zet Her	2.8070	6000.0	150	5195	No
25	GOM_NL__2PRFIN20030227_011706_000000392014_00131_05195_5401.N1	27-FEB-2003 01:17:06	Bright	38.500	168	17Zet Aql	2.9860	11000.	77	5195	No
26	GOM_NL__2PRFIN20030227_012009_000000652014_00131_05195_5402.N1	27-FEB-2003 01:20:09	Tw_i_and_stray	65.000	59	55Alp Oph	2.0800	8900.0	130	5195	No
27	GOM_NL__2PRFIN20030227_012239_000000652014_00131_05195_5403.N1	27-FEB-2003 01:22:39	Straylight	64.500	126	60Bet Oph	2.7700	4250.0	129	5195	No
28	GOM_NL__2PRFIN20030227_012650_000000402014_00131_05195_5404.N1	27-FEB-2003 01:26:50	Dark	40.000	155	41Pi Sgr	2.9000	6600.0	80	5195	No
29	GOM_NL__2PRFIN20030227_012837_000000422014_00131_05195_5405.N1	27-FEB-2003 01:28:37	Dark	41.500	57	34Sig Sgr	2.0660	26000.	83	5195	No
30	GOM_NL__2PRFIN20030227_013104_000000582014_00131_05195_5406.N1	27-FEB-2003 01:31:04	Dark	58.000	86	35Eta Oph	2.4300	10200.	116	5195	No
31	GOM_NL__2PRFIN20030227_013305_000000782014_00131_05195_5407.N1	27-FEB-2003 01:33:05	Dark	77.500	98	13Zet Oph	2.5710	30000.	155	5195	No
32	GOM_NL__2PRFIN20030227_013619_000000532014_00131_05195_5408.N1	27-FEB-2003 01:36:19	Dark	52.500	75	26Eps Sco	2.2910	4250.0	105	5195	No
33	GOM_NL__2PRFIN20030227_014448_000000462014_00132_05196_5377.N1	27-FEB-2003 01:44:48	Dark	46.000	4	Alp1Cen	-0.010000	5800.0	92	5196	No
34	GOM_NL__2PRFIN20030227_014607_000000412014_00132_05196_5378.N1	27-FEB-2003 01:46:07	Dark	41.000	10	Bet Cen	0.610000	28000.	82	5196	No
35	GOM_NL__2PRFIN20030227_014751_000000432014_00132_05196_5379.N1	27-FEB-2003 01:47:51	Dark	43.000	77	Eps Cen	2.3030	28000.	86	5196	No
36	GOM_NL__2PRFIN20030227_014928_000000712014_00132_05196_5380.N1	27-FEB-2003 01:49:28	Dark	71.000	54	5The Cen	2.0550	4500.0	142	5196	No
37	GOM_NL__2PRFIN20030227_015309_000000402014_00132_05196_5381.N1	27-FEB-2003 01:53:09	Dark	40.000	71	lot Car	2.2460	7700.0	80	5196	No
38	GOM_NL__2PRFIN20030227_015441_000000392014_00132_05196_5382.N1	27-FEB-2003 01:54:41	Straylight	39.000	46	Del Vel	1.9540	10600.	78	5196	No
39	GOM_NL__2PRFIN20030227_015733_000000462014_00132_05196_5383.N1	27-FEB-2003 01:57:33	Straylight	45.500	65	Lam Vel	2.2040	4400.0	91	5196	No
40	GOM_NL__2PRFIN20030227_015953_000000752014_00132_05196_5384.N1	27-FEB-2003 01:59:53	Straylight	74.500	106	9Bet Crv	2.6480	5600.0	149	5196	No
41	GOM_NL__2PRFIN20030227_020307_000000742014_00132_05196_5385.N1	27-FEB-2003 02:03:07	Straylight	74.000	100	4Gam Crv	2.5800	13100.	148	5196	No
42	GOM_NL__2PRFIN20030227_020706_000000472014_00132_05196_5386.N1	27-FEB-2003 02:07:06	Tw_i_and_stray	46.500	48	30Alp Hya	1.9770	4100.0	93	5196	No

279	GOM_NL__2PRFIN20030227_143459_000000352014_00139_05203_5399.N1	27-FEB-2003 14:34:59	Bright	34.500	92	53Eps Cyg	2.5000	4500.0	69	5203	No
280	GOM_NL__2PRFIN20030227_143756_000000772014_00139_05203_5400.N1	27-FEB-2003 14:37:56	Bright	76.500	133	40Zet Her	2.8070	6000.0	153	5203	No
281	GOM_NL__2PRFIN20030227_144156_000000392014_00139_05203_5401.N1	27-FEB-2003 14:41:56	Bright	38.500	168	17Zet Aql	2.9860	11000.	77	5203	No
282	GOM_NL__2PRFIN20030227_144503_000000662014_00139_05203_5402.N1	27-FEB-2003 14:45:03	Twilight	65.500	59	55Alp Oph	2.0800	8900.0	131	5203	No
283	GOM_NL__2PRFIN20030227_144733_000000622014_00139_05203_5403.N1	27-FEB-2003 14:47:33	Straylight	61.500	126	60Bet Oph	2.7700	4250.0	123	5203	No
284	GOM_NL__2PRFIN20030227_145141_000000422014_00139_05203_5404.N1	27-FEB-2003 14:51:41	Dark	41.500	155	41Pi Sgr	2.9000	6600.0	83	5203	No
285	GOM_NL__2PRFIN20030227_145329_000000432014_00139_05203_5405.N1	27-FEB-2003 14:53:29	Dark	42.500	57	34Sig Sgr	2.0660	26000.	85	5203	No
286	GOM_NL__2PRFIN20030227_145632_000000402014_00139_05203_5406.N1	27-FEB-2003 14:56:32	Dark	39.500	38	20Eps Sgr	1.8360	11000.	79	5203	No
287	GOM_NL__2PRFIN20030227_145917_000000442014_00139_05203_5407.N1	27-FEB-2003 14:59:17	Dark	44.000	25	35Lam Sco	1.6200	28000.	88	5203	No
288	GOM_NL__2PRFIN20030227_150115_000000532014_00139_05203_5408.N1	27-FEB-2003 15:01:15	Dark	53.000	75	26Eps Sco	2.2910	4250.0	106	5203	No
289	GOM_NL__2PRFIN20030227_150941_000000452014_00140_05204_5377.N1	27-FEB-2003 15:09:41	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	5204	No
290	GOM_NL__2PRFIN20030227_151100_000000422014_00140_05204_5378.N1	27-FEB-2003 15:11:00	Dark	41.500	10	Bet Cen	0.61000	28000.	83	5204	No
291	GOM_NL__2PRFIN20030227_151245_000000432014_00140_05204_5379.N1	27-FEB-2003 15:12:45	Dark	43.000	77	Eps Cen	2.3030	28000.	86	5204	No
292	GOM_NL__2PRFIN20030227_151427_000000732014_00140_05204_5380.N1	27-FEB-2003 15:14:27	Dark	73.000	54	5The Cen	2.0550	4500.0	146	5204	No
293	GOM_NL__2PRFIN20030227_151758_000000432014_00140_05204_5381.N1	27-FEB-2003 15:17:58	Dark	43.000	71	lot Car	2.2460	7700.0	86	5204	No
294	GOM_NL__2PRFIN20030227_151929_000000372014_00140_05204_5382.N1	27-FEB-2003 15:19:29	Straylight	37.000	46	Del Vel	1.9540	10600.	74	5204	No
295	GOM_NL__2PRFIN20030227_152222_000000432014_00140_05204_5383.N1	27-FEB-2003 15:22:22	Straylight	43.000	65	Lam Vel	2.2040	4400.0	86	5204	No
296	GOM_NL__2PRFIN20030227_152445_000000702014_00140_05204_5384.N1	27-FEB-2003 15:24:45	Straylight	69.500	106	9Bet Crv	2.6480	5600.0	139	5204	No
297	GOM_NL__2PRFIN20030227_152756_000000712014_00140_05204_5385.N1	27-FEB-2003 15:27:56	Straylight	71.000	100	4Gam Crv	2.5800	13100.	142	5204	No
298	GOM_NL__2PRFIN20030227_153154_000000462014_00140_05204_5386.N1	27-FEB-2003 15:31:54	Twilight	46.000	48	30Alp Hya	1.9770	4100.0	92	5204	No
299	GOM_NL__2PRFIN20030227_153813_000000432014_00140_05204_5387.N1	27-FEB-2003 15:38:13	Bright	43.000	22	32Alp Leo	1.3600	15200.	86	5204	No
300	GOM_NL__2PRFIN20030227_154132_000000402014_00140_05204_5388.N1	27-FEB-2003 15:41:32	Bright	39.500	166	17Eps Leo	2.9800	6000.0	79	5204	No
301	GOM_NL__2PRFIN20030227_154414_000000382014_00140_05204_5389.N1	27-FEB-2003 15:44:14	Bright	38.000	24	66Alp Gem	1.5800	10200.	76	5204	No
302	GOM_NL__2PRFIN20030227_154959_000000462014_00140_05204_5390.N1	27-FEB-2003 15:49:59	Bright	45.500	174	52Psi UMa	3.0040	4400.0	91	5204	No
303	GOM_NL__2PRFIN20030227_155238_000000402014_00140_05204_5391.N1	27-FEB-2003 15:52:38	Bright	40.000	82	48Bet UMa	2.3650	10600.	80	5204	No
304	GOM_NL__2PRFIN20030227_155403_000000472014_00140_05204_5392.N1	27-FEB-2003 15:54:03	Bright	46.500	87	64Gam UMa	2.4330	11000.	93	5204	No
305	GOM_NL__2PRFIN20030227_155723_000000492014_00140_05204_5393.N1	27-FEB-2003 15:57:23	Bright	48.500	32	77Eps UMa	1.7630	11000.	97	5204	No
306	GOM_NL__2PRFIN20030227_155956_000000372014_00140_05204_5394.N1	27-FEB-2003 15:59:56	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	5204	No
307	GOM_NL__2PRFIN20030227_160548_000000482014_00140_05204_5395.N1	27-FEB-2003 16:05:48	Bright	47.500	119	14Eta Dra	2.7270	4700.0	95	5204	No
308	GOM_NL__2PRFIN20030227_161007_000000482014_00140_05204_5396.N1	27-FEB-2003 16:10:07	Bright	47.500	130	23Bet Dra	2.7990	5800.0	95	5204	No
309	GOM_NL__2PRFIN20030227_161229_000000362014_00140_05204_5397.N1	27-FEB-2003 16:12:29	Bright	35.500	19	50Alp Cyg	1.2460	10500.	71	5204	No
310	GOM_NL__2PRFIN20030227_161403_000000342014_00140_05204_5398.N1	27-FEB-2003 16:14:03	Bright	33.500	66	37Gam Cyg	2.2080	5900.0	67	5204	No
311	GOM_NL__2PRFIN20030227_161535_000000352014_00140_05204_5399.N1	27-FEB-2003 16:15:35	Bright	35.000	92	53Eps Cyg	2.5000	4500.0	70	5204	No
312	GOM_NL__2PRFIN20030227_161832_000000752014_00140_05204_5400.N1	27-FEB-2003 16:18:32	Bright	75.000	133	40Zet Her	2.8070	6000.0	150	5204	No
313	GOM_NL__2PRFIN20030227_162233_000000392014_00140_05204_5401.N1	27-FEB-2003 16:22:33	Bright	39.000	168	17Zet Aql	2.9860	11000.	78	5204	No
314	GOM_NL__2PRFIN20030227_162539_000000682014_00140_05204_5402.N1	27-FEB-2003 16:25:39	Twilight	67.500	59	55Alp Oph	2.0800	8900.0	135	5204	No
315	GOM_NL__2PRFIN20030227_162810_000000652014_00140_05204_5403.N1	27-FEB-2003 16:28:10	Straylight	65.000	126	60Bet Oph	2.7700	4250.0	130	5204	No
316	GOM_NL__2PRFIN20030227_163217_000000402014_00140_05204_5404.N1	27-FEB-2003 16:32:17	Dark	40.000	155	41Pi Sgr	2.9000	6600.0	80	5204	No
317	GOM_NL__2PRFIN20030227_163405_000000402014_00140_05204_5405.N1	27-FEB-2003 16:34:05	Dark	40.000	57	34Sig Sgr	2.0660	26000.	80	5204	No
318	GOM_NL__2PRFIN20030227_163709_000000442014_00140_05204_5406.N1	27-FEB-2003 16:37:09	Dark	44.000	38	20Eps Sgr	1.8360	11000.	88	5204	No
319	GOM_NL__2PRFIN20030227_163953_000000502014_00140_05204_5407.N1	27-FEB-2003 16:39:53	Dark	50.000	25	35Lam Sco	1.6200	28000.	100	5204	No
320	GOM_NL__2PRFIN20030227_164152_000000512014_00140_05204_5408.N1	27-FEB-2003 16:41:52	Dark	51.000	75	26Eps Sco	2.2910	4250.0	102	5204	No

3. Quality information per product

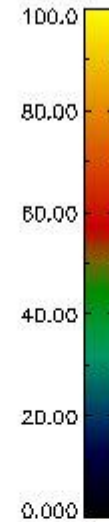
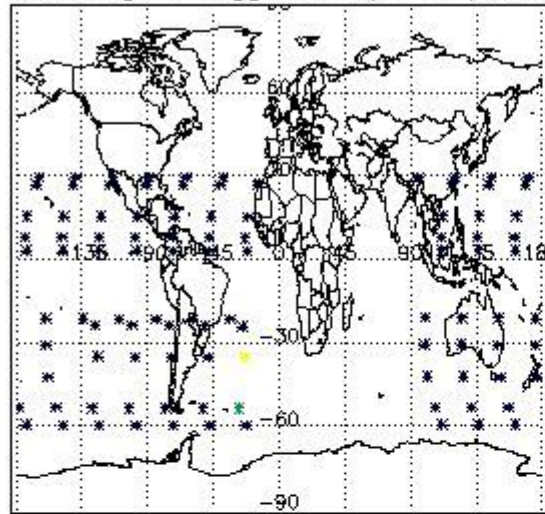
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

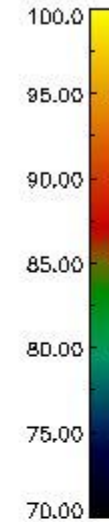
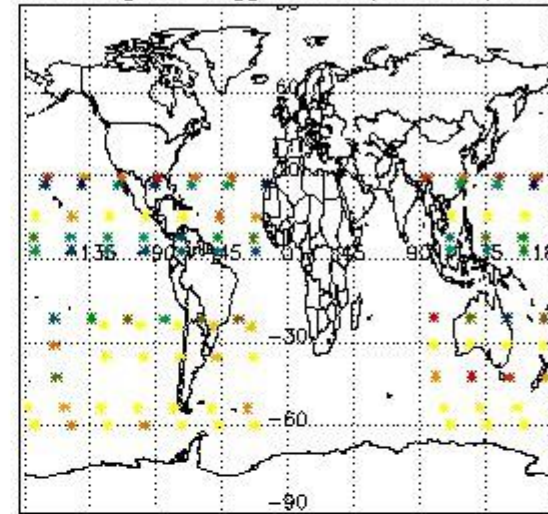


3.2 Plot quality information per product (world map)

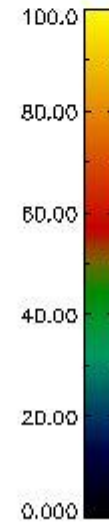
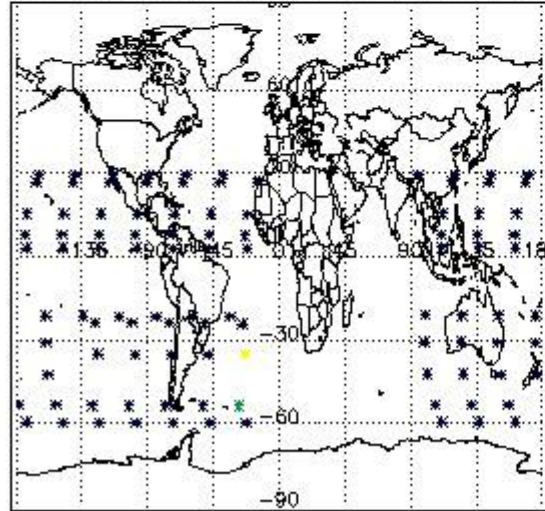
Percentage of flagged data per O3 profile



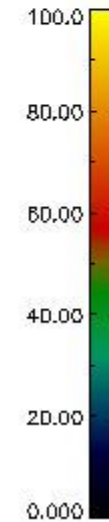
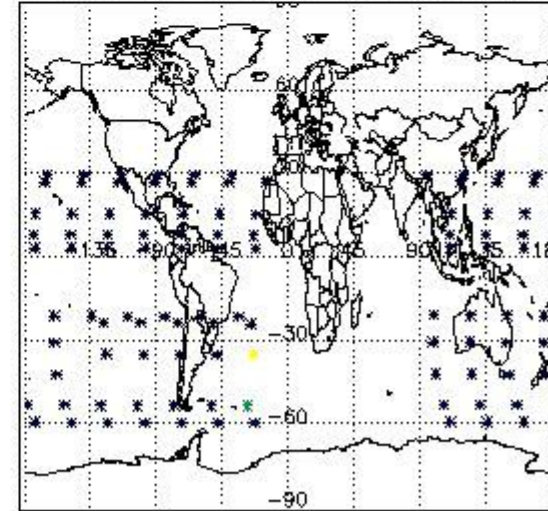
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

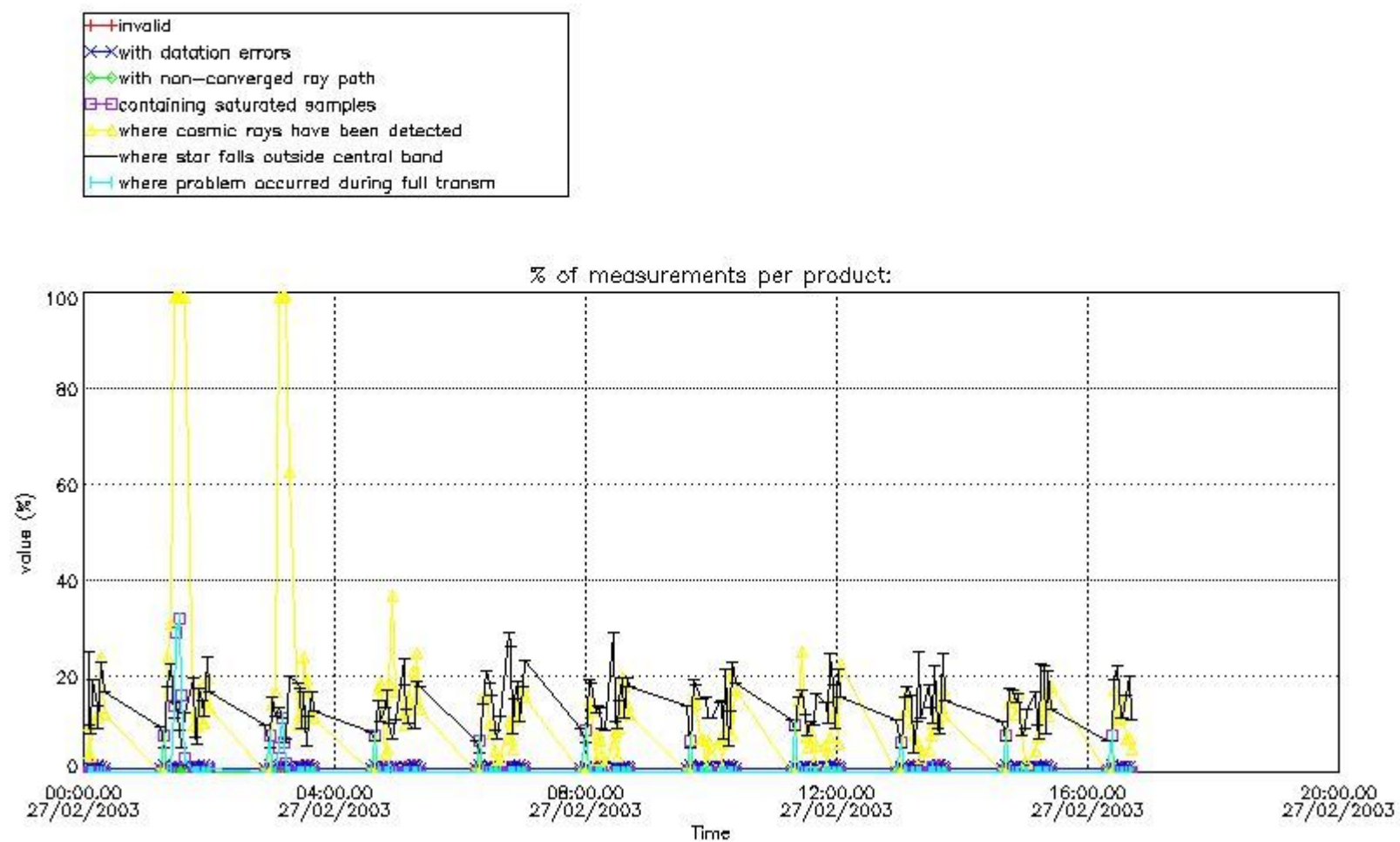


4. Level 1 quality information per product

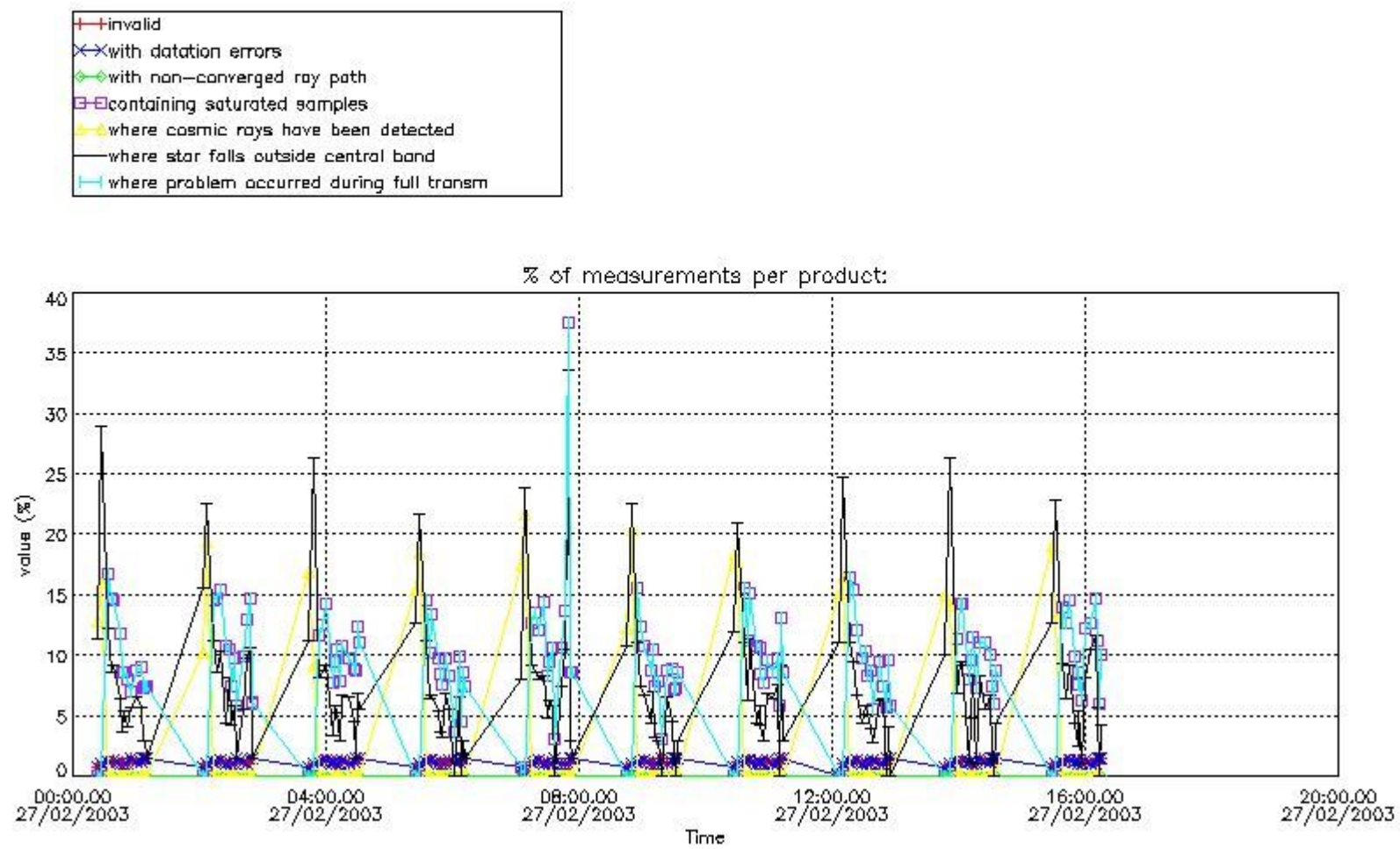
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

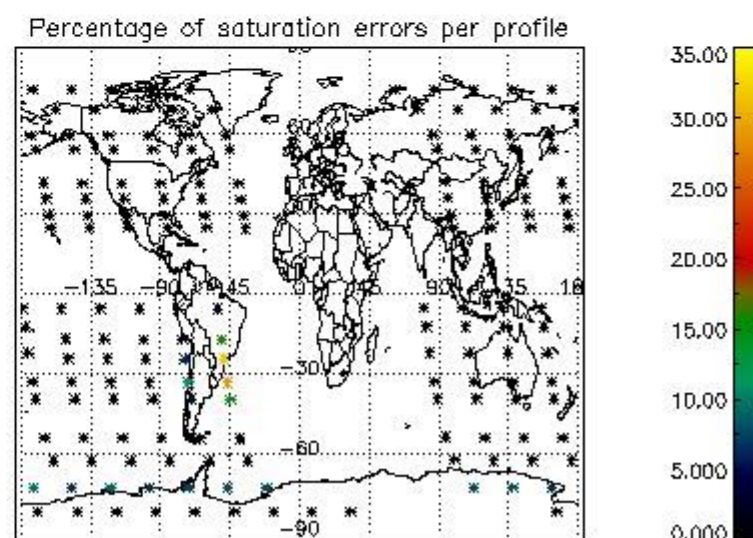
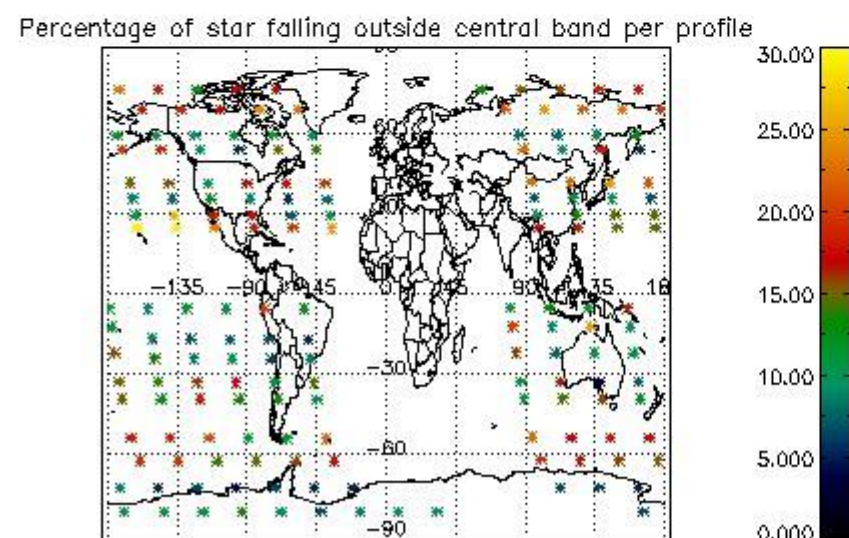
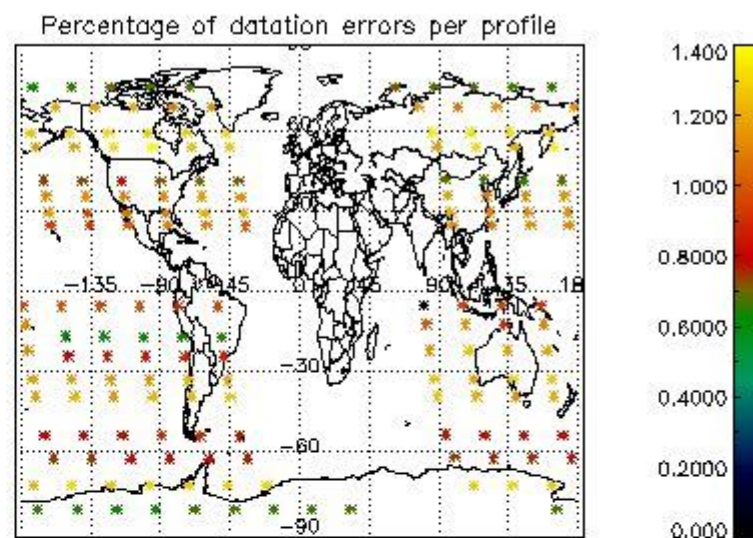
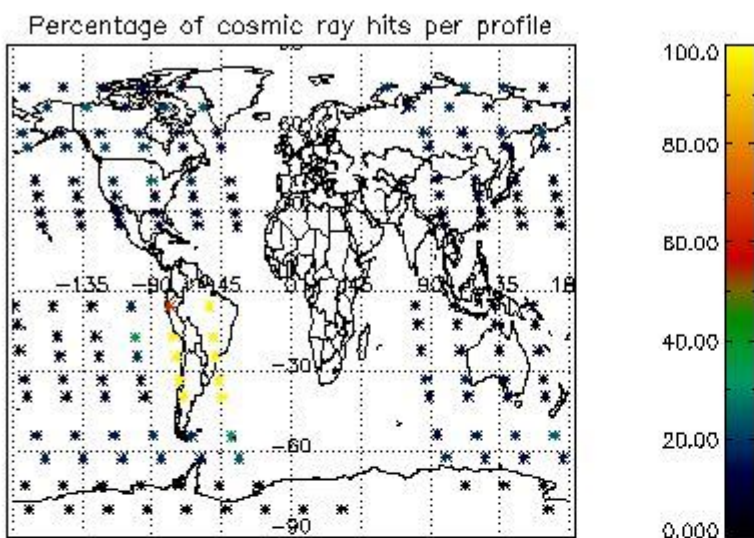


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

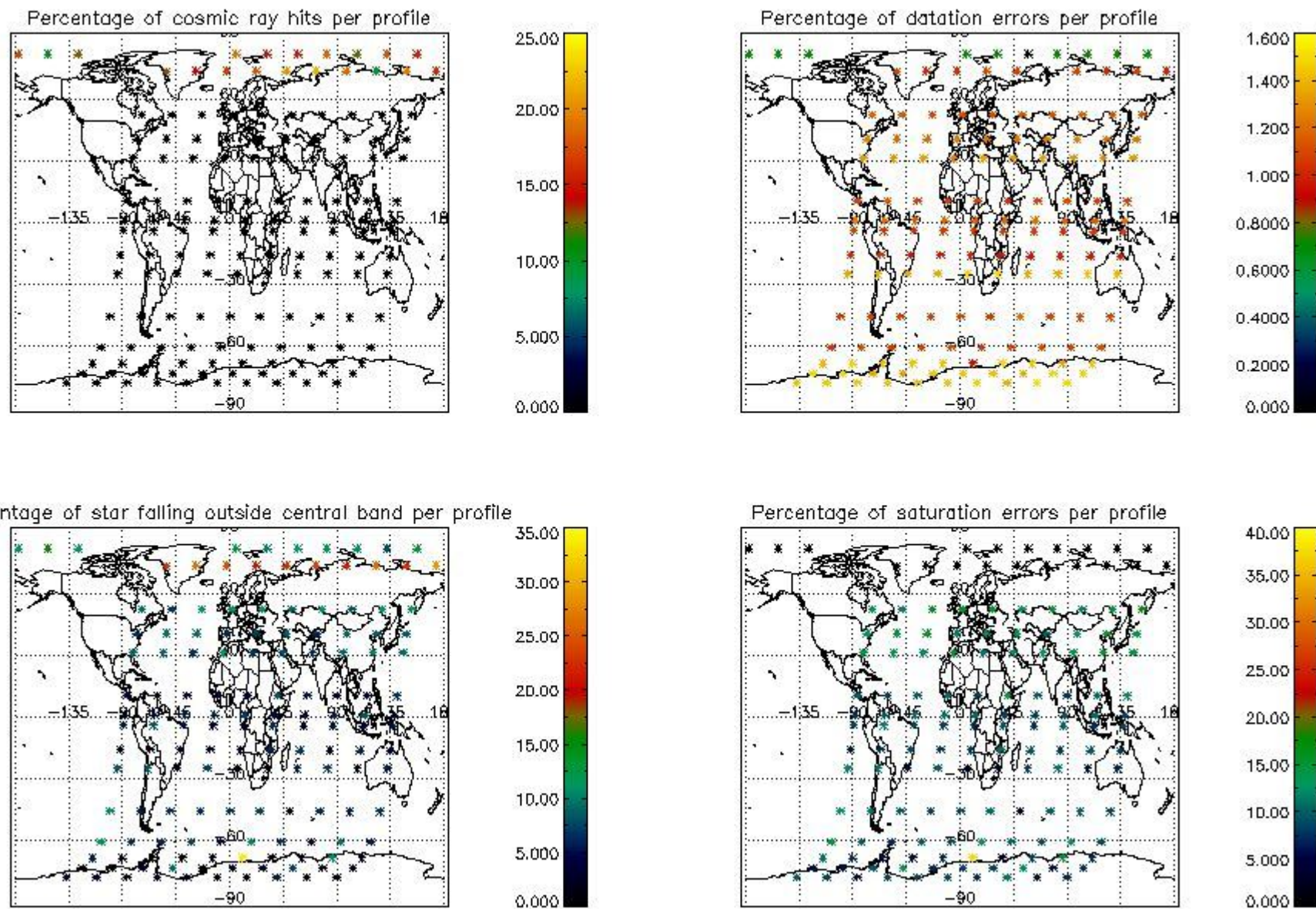


4.2 Plot quality information per product coming from level 1b processing (world map)

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



4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

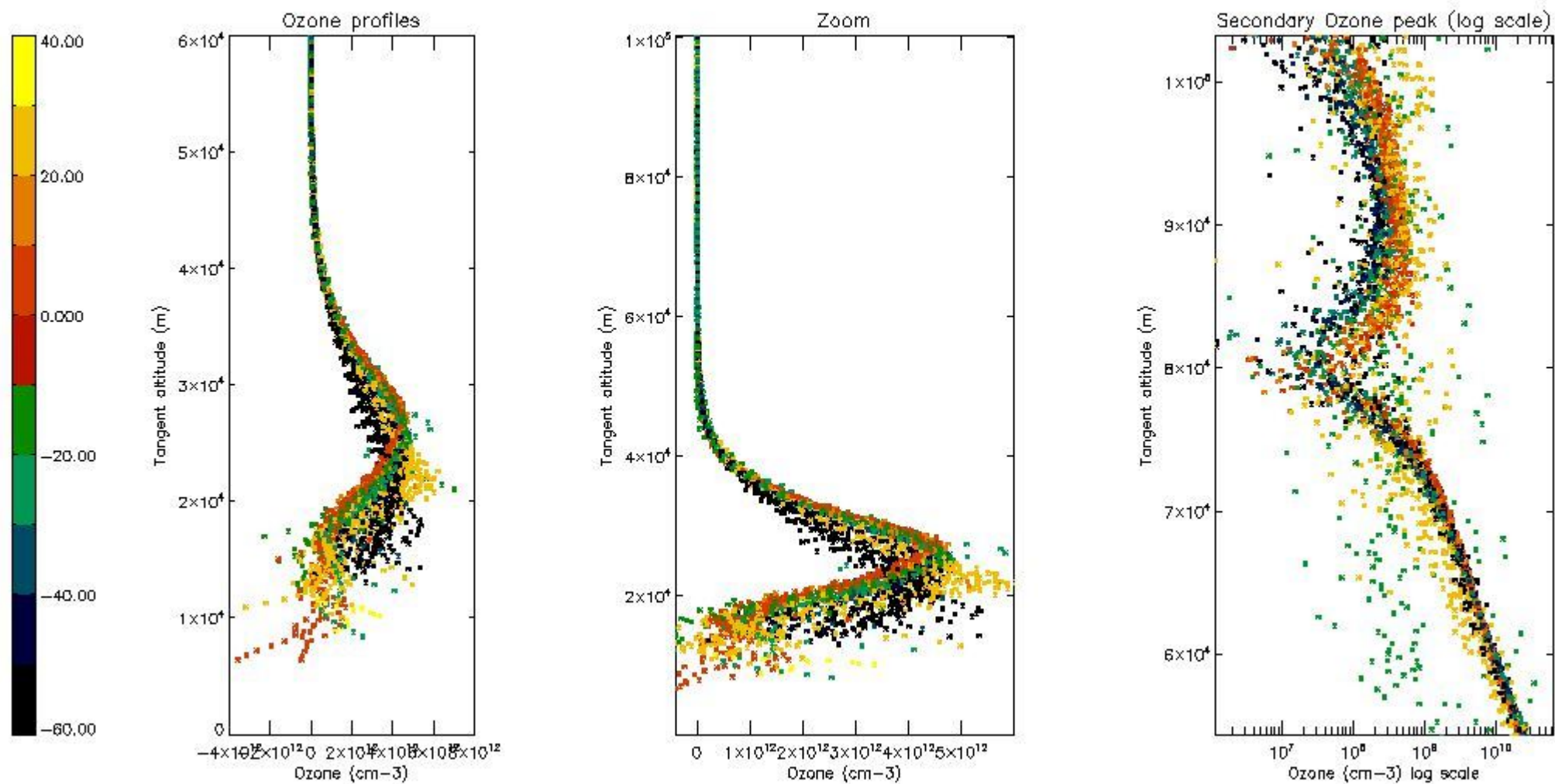
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

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

STD < 10	16
STD < 5	11

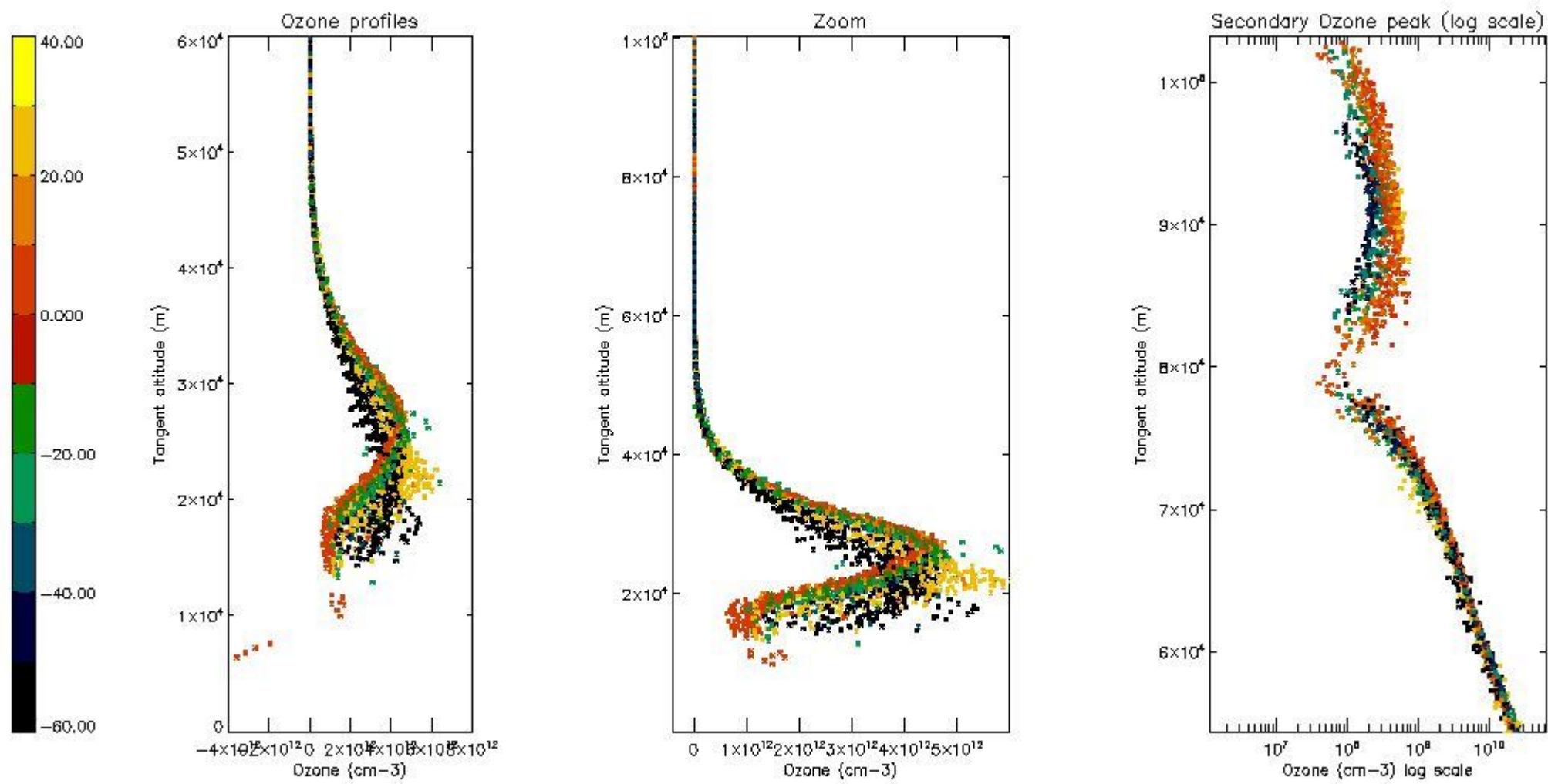
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



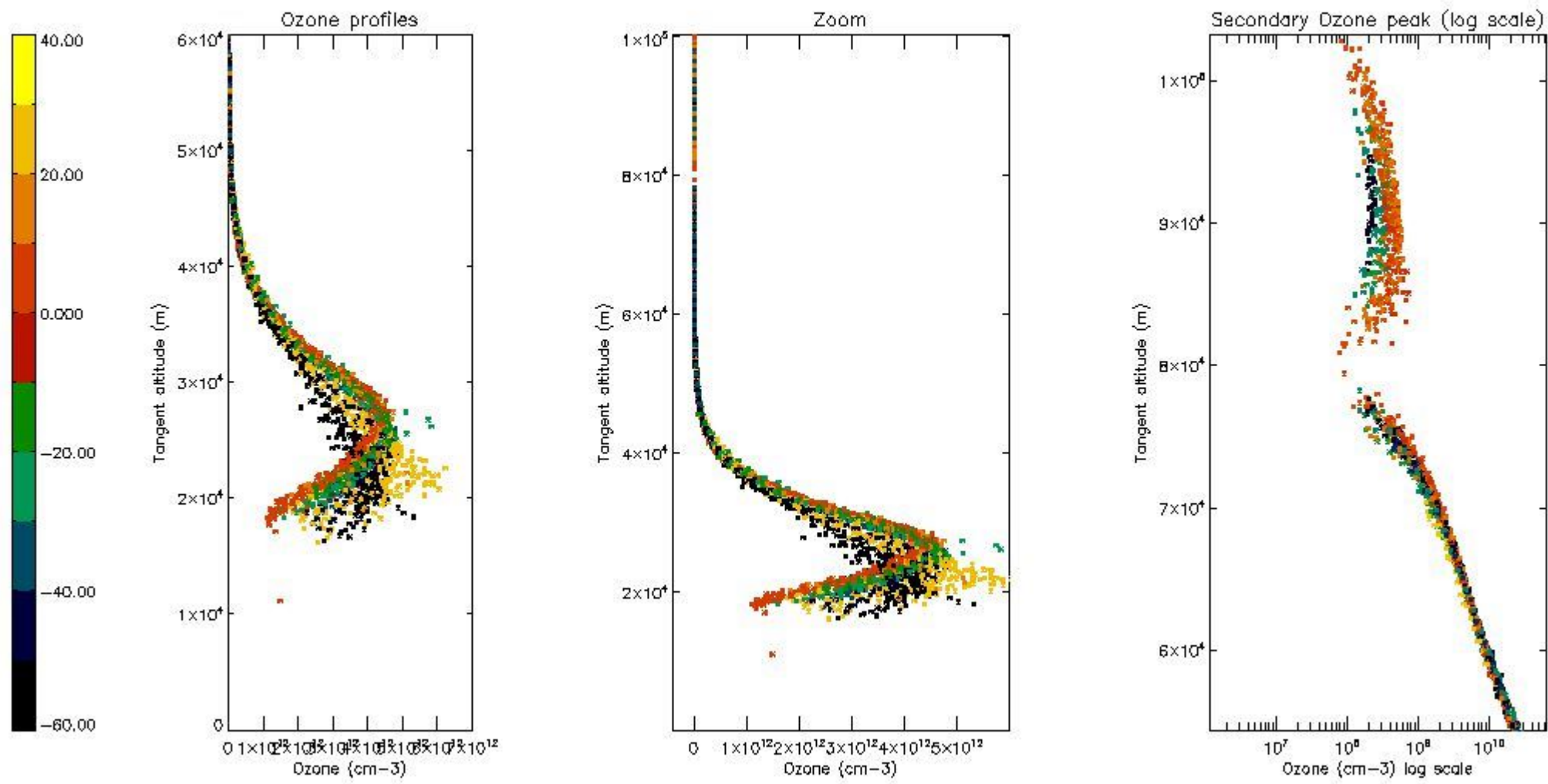
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



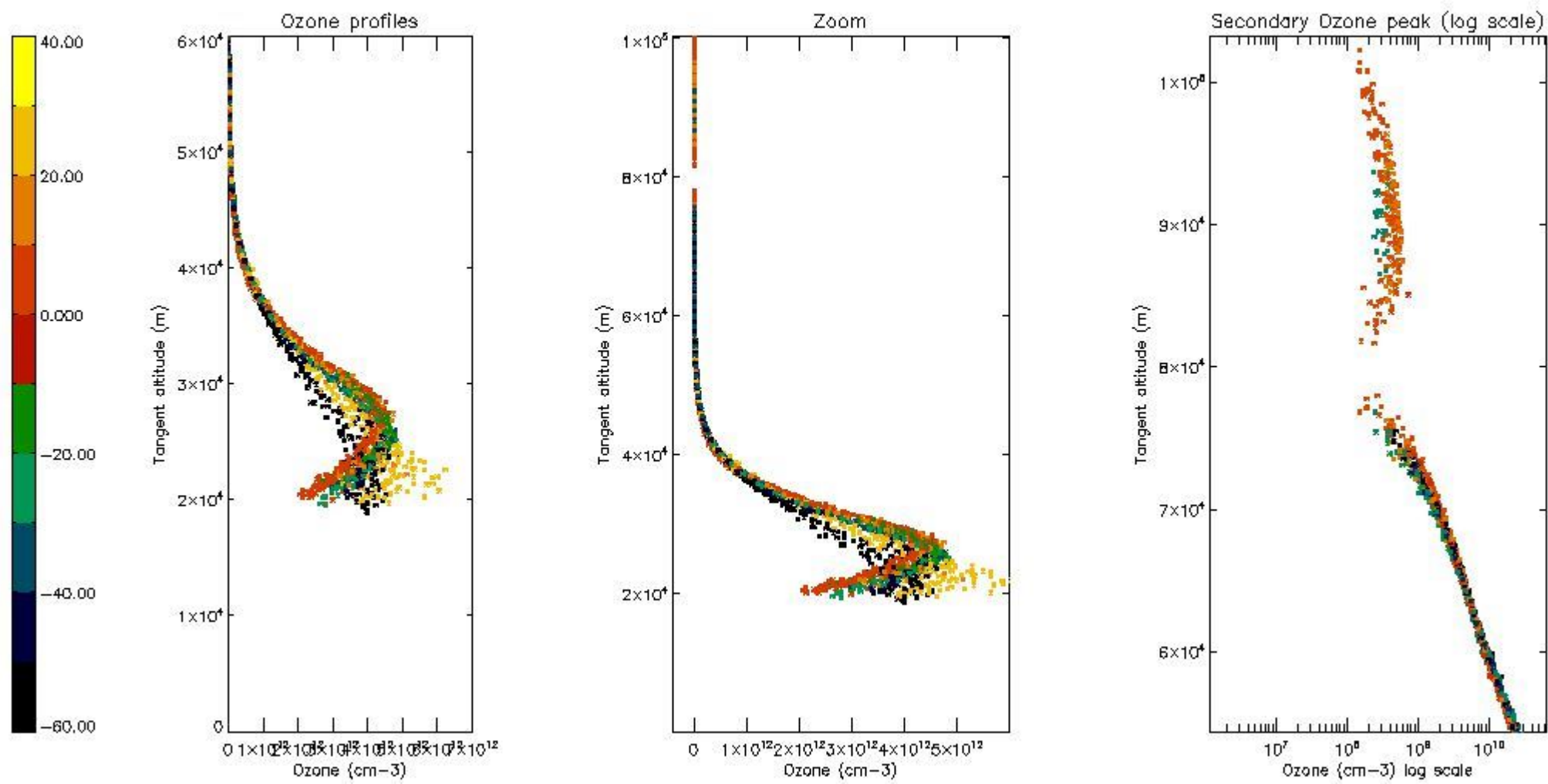
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



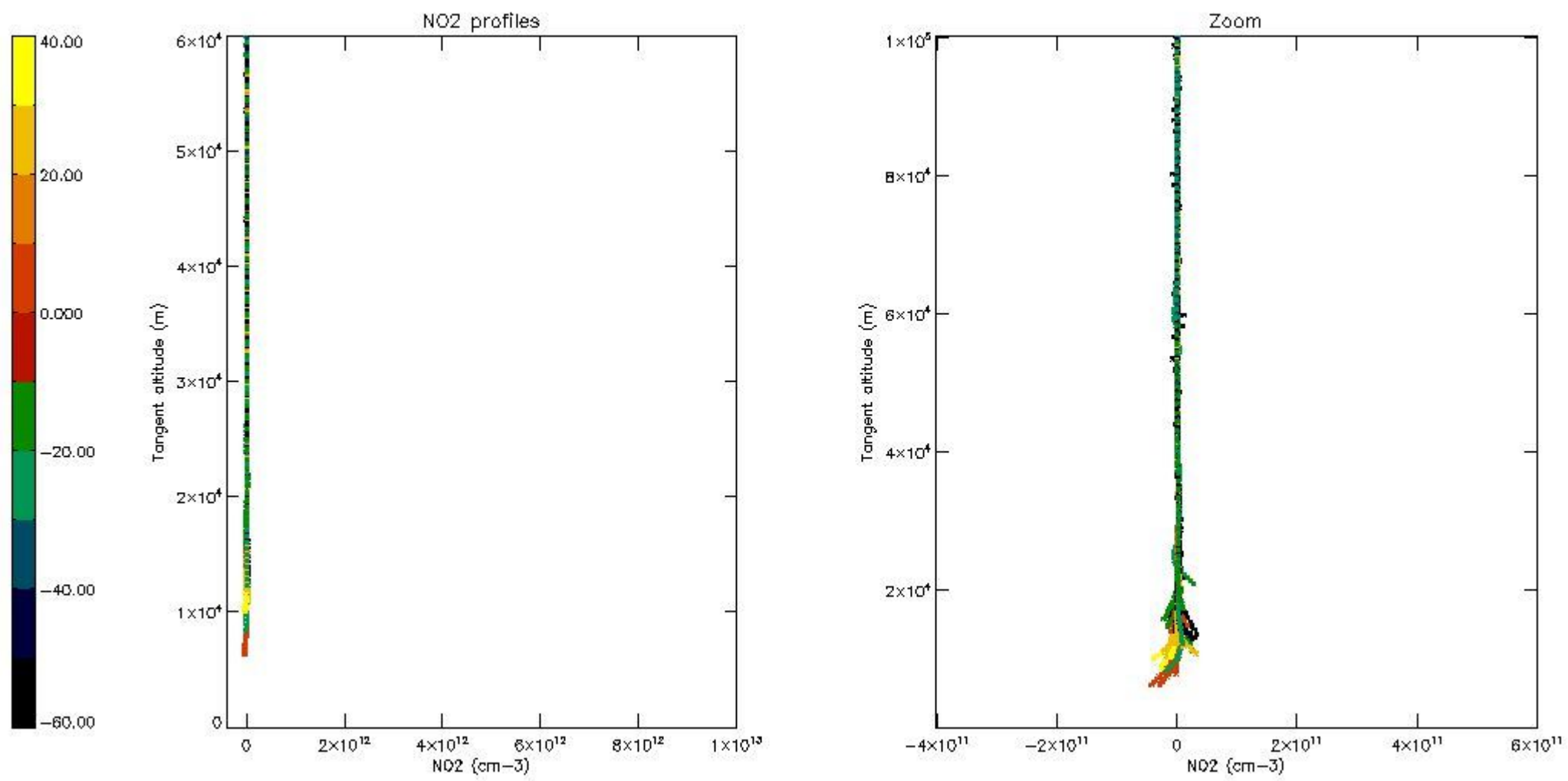
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



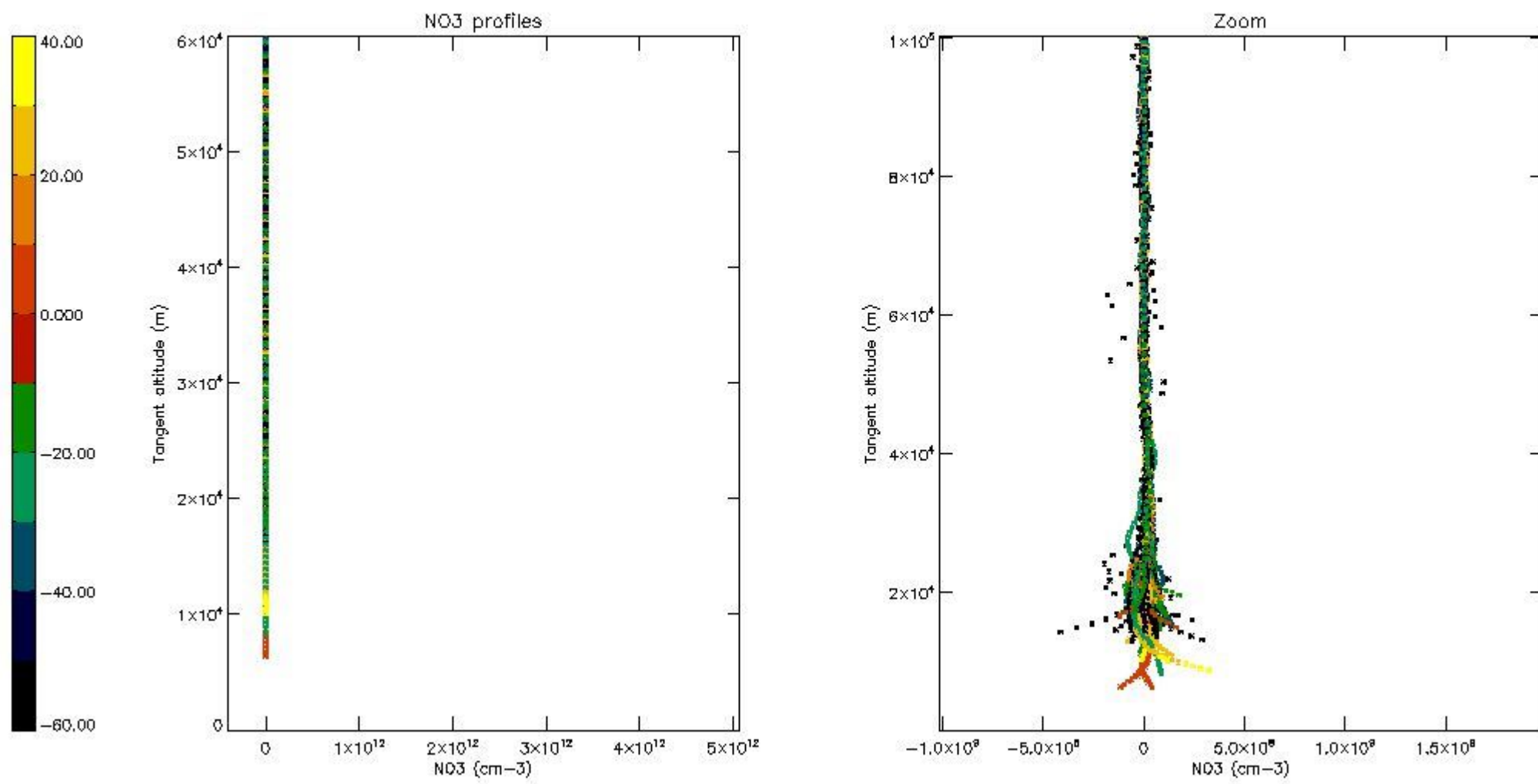
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



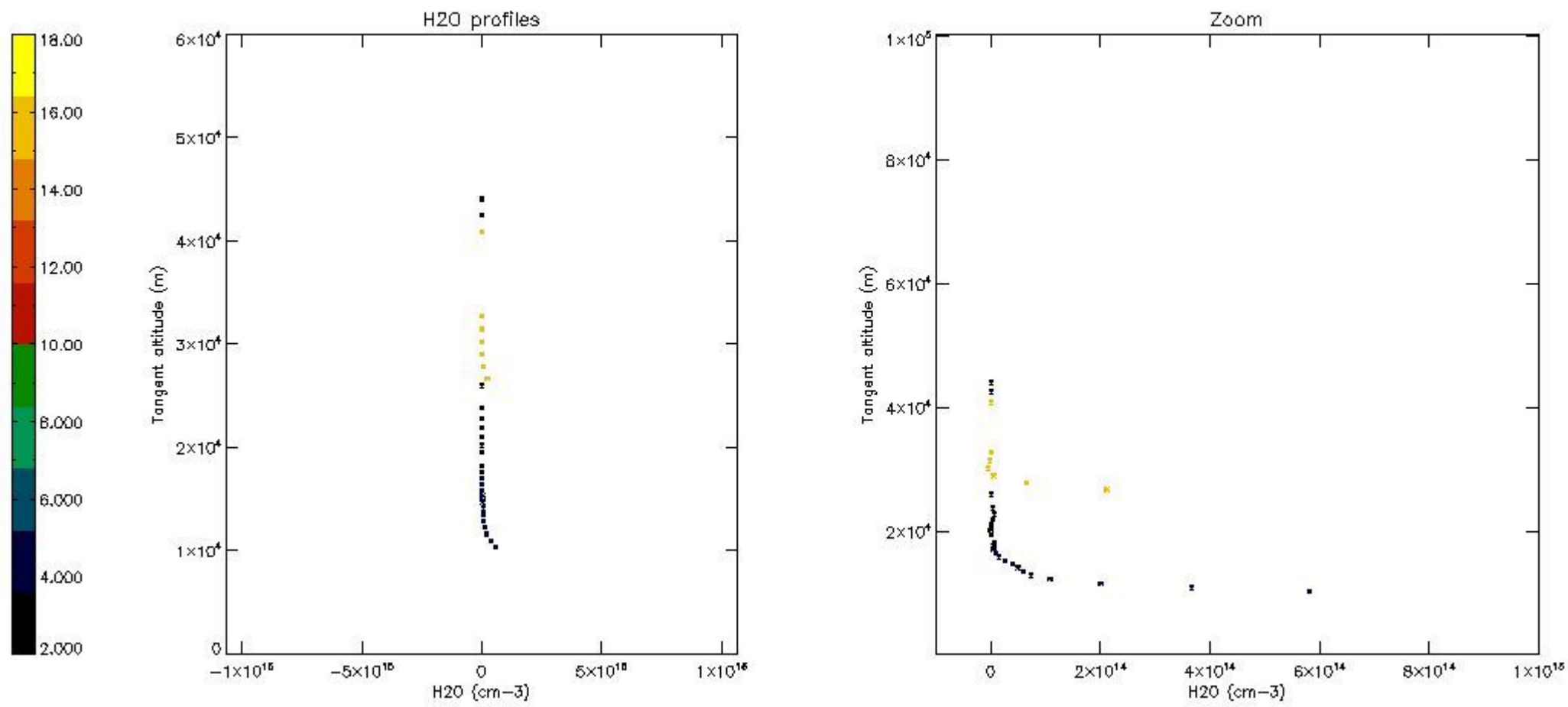
5.7 Plot NO3 profiles for all STD (dark without errors)

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_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	27-FEB-2003 00:04:12
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	27-FEB-2003 00:04:12
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	27-FEB-2003 00:04:12

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

[2. Summary of processed GOM_NL_2P products](#)

[3. Level 2 Quality information per product](#)

[3.1 Plot of level 2 quality information per product \(time dependant\)](#)

[3.2 Plot of level 2 quality information per product \(world map\)](#)

[4. Level 1 Quality information per product \(stored on level 2 products\)](#)

[4.1 Plot of level 1 quality information per product \(time dependant\)](#)

[4.1.1 Plot of level 1 quality information per product \(time dependant\): ASCENDING](#)

[4.1.2 Plot of level 1 quality information per product \(time dependant\): DESCENDING](#)

[4.2 Plot of level 1 quality information per product \(world map\)](#)

[4.2.1 Plot of level 1 quality information per product \(world map\): ASCENDING](#)

[4.2.2 Plot of level 1 quality information per product \(world map\): DESCENDING](#)

[5. Ozone profiles based on quality statistics and other trace gas profiles](#)

[5.1 Ozone statistics based on quality of products](#)

[5.2 Plot ozone profiles for all STD \(dark without errors\)](#)

[5.3 Plot ozone profiles where STD < 20% \(dark without errors\)](#)

[5.4. Plot ozone profiles where STD < 10% \(dark without errors\)](#)

[5.5. Plot ozone profiles where STD < 5% \(dark without errors\)](#)

[5.6 Plot NO2 profiles for all STD \(dark without errors\)](#)

[5.7 Plot NO3 profiles for all STD \(dark without errors\)](#)

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

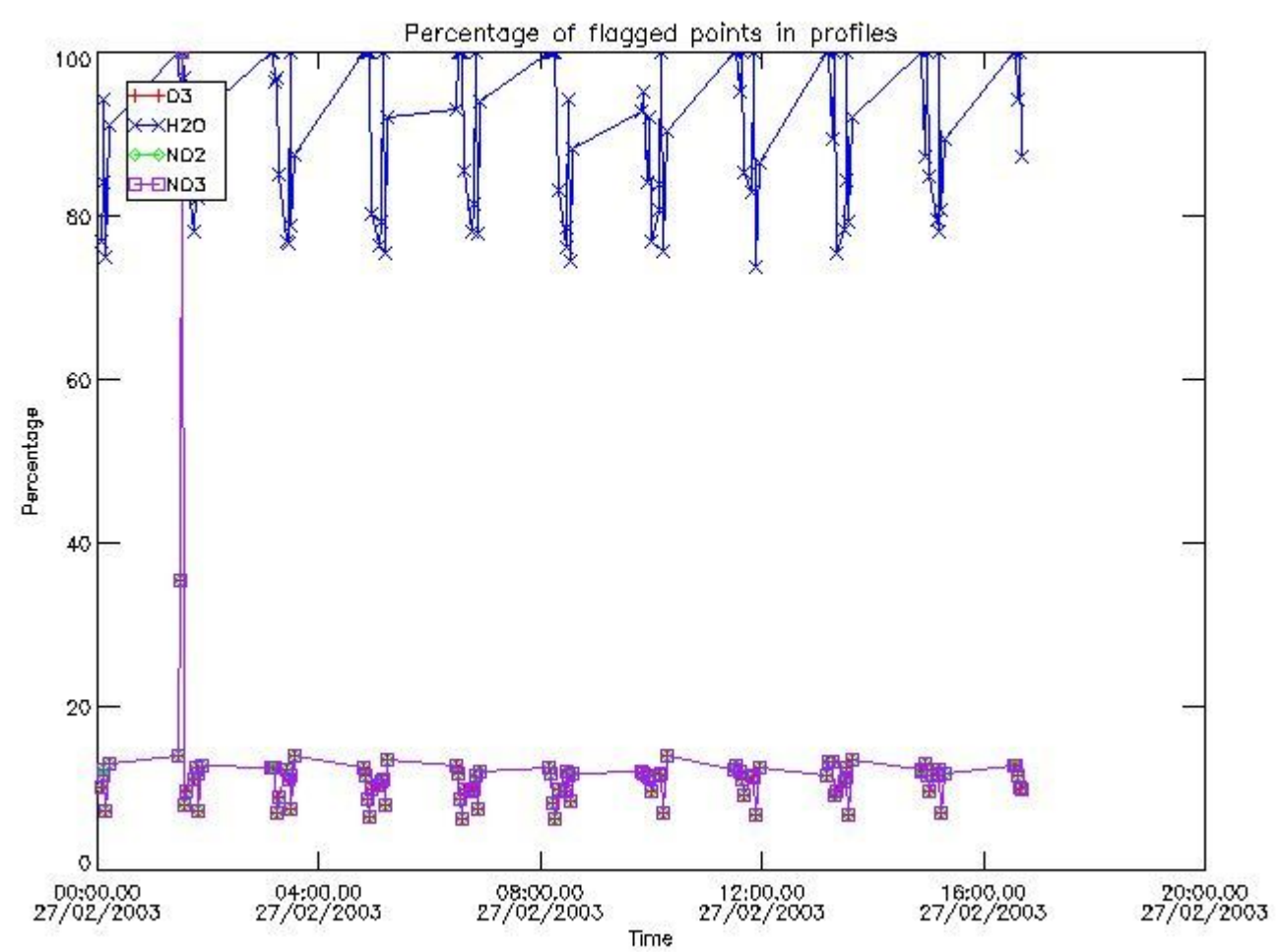
[6. Auxiliary Data Files used for the production reported in section 2](#)

This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	19APR2013 09:56:20
Data source version	GOMOS/6.01
Start time of products	27-02-2003 (27FEB2003 00:00:00)
Stop time of products	28-02-2003 (28FEB2003 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	320
Nb of prods with errors	0

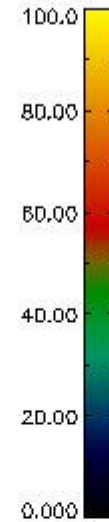
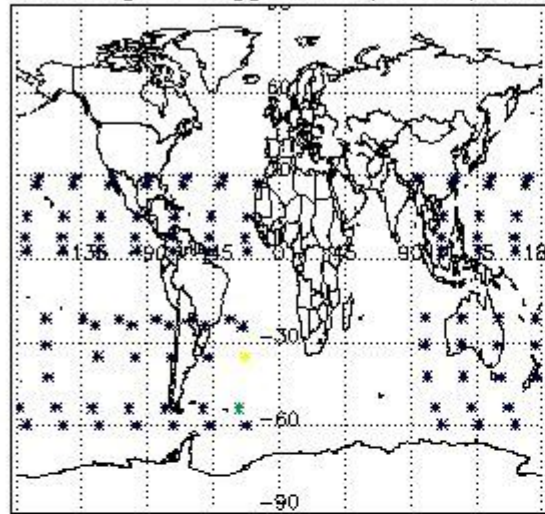
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20030227_000412_000000502014_00131_05195_5377.N1	27-FEB-2003 00:04:12	Dark	50.000	4	Alp1Cen	-0.010000	5800.0	100	5195	No
2	GOM_NL__2PRFIN20030227_000531_000000422014_00131_05195_5378.N1	27-FEB-2003 00:05:31	Dark	41.500	10	Bet Cen	0.610000	28000.	83	5195	No
3	GOM_NL__2PRFIN20030227_000715_000000442014_00131_05195_5379.N1	27-FEB-2003 00:07:15	Dark	44.000	77	Eps Cen	2.3030	28000.	88	5195	No
4	GOM_NL__2PRFIN20030227_000852_000000702014_00131_05195_5380.N1	27-FEB-2003 00:08:52	Dark	70.000	54	5The Cen	2.0550	4500.0	140	5195	No
5	GOM_NL__2PRFIN20030227_001233_000000402014_00131_05195_5381.N1	27-FEB-2003 00:12:33	Dark	39.500	71	lot Car	2.2460	7700.0	79	5195	No
6	GOM_NL__2PRFIN20030227_001405_000000382014_00131_05195_5382.N1	27-FEB-2003 00:14:05	Straylight	38.000	46	Del Vel	1.9540	10600.	76	5195	No
7	GOM_NL__2PRFIN20030227_001657_000000442014_00131_05195_5383.N1	27-FEB-2003 00:16:57	Straylight	44.000	65	Lam Vel	2.2040	4400.0	88	5195	No
8	GOM_NL__2PRFIN20030227_001917_000000742014_00131_05195_5384.N1	27-FEB-2003 00:19:17	Straylight	74.000	106	9Bet Crv	2.6480	5600.0	148	5195	No
9	GOM_NL__2PRFIN20030227_002231_000000712014_00131_05195_5385.N1	27-FEB-2003 00:22:31	Straylight	70.500	100	4Gam Crv	2.5800	13100.	141	5195	No
10	GOM_NL__2PRFIN20030227_002630_000000502014_00131_05195_5386.N1	27-FEB-2003 00:26:30	Tw_i_and_stray	50.000	48	30Alp Hya	1.9770	4100.0	100	5195	No
11	GOM_NL__2PRFIN20030227_003251_000000452014_00131_05195_5387.N1	27-FEB-2003 00:32:51	Bright	45.000	22	32Alp Leo	1.3600	15200.	90	5195	No
12	GOM_NL__2PRFIN20030227_003610_000000412014_00131_05195_5388.N1	27-FEB-2003 00:36:10	Bright	41.000	166	17Eps Leo	2.9800	6000.0	82	5195	No
13	GOM_NL__2PRFIN20030227_003848_000000382014_00131_05195_5389.N1	27-FEB-2003 00:38:48	Bright	38.000	24	66Alp Gem	1.5800	10200.	76	5195	No
14	GOM_NL__2PRFIN20030227_004442_000000472014_00131_05195_5390.N1	27-FEB-2003 00:44:42	Bright	46.500	174	52Psi UMa	3.0040	4400.0	93	5195	No
15	GOM_NL__2PRFIN20030227_004719_000000412014_00131_05195_5391.N1	27-FEB-2003 00:47:19	Bright	41.000	82	48Bet UMa	2.3650	10600.	82	5195	No
16	GOM_NL__2PRFIN20030227_004846_000000472014_00131_05195_5392.N1	27-FEB-2003 00:48:46	Bright	47.000	87	64Gam UMa	2.4330	11000.	94	5195	No
17	GOM_NL__2PRFIN20030227_005207_000000502014_00131_05195_5393.N1	27-FEB-2003 00:52:07	Bright	50.000	32	77Eps UMa	1.7630	11000.	100	5195	No
18	GOM_NL__2PRFIN20030227_005433_000000362014_00131_05195_5394.N1	27-FEB-2003 00:54:33	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	5195	No
19	GOM_NL__2PRFIN20030227_010029_000000462014_00131_05195_5395.N1	27-FEB-2003 01:00:29	Bright	45.500	119	14Eta Dra	2.7270	4700.0	91	5195	No
20	GOM_NL__2PRFIN20030227_010446_000000452014_00131_05195_5396.N1	27-FEB-2003 01:04:46	Bright	44.500	130	23Bet Dra	2.7990	5800.0	89	5195	No
21	GOM_NL__2PRFIN20030227_010704_000000352014_00131_05195_5397.N1	27-FEB-2003 01:07:04	Bright	34.500	19	50Alp Cyg	1.2460	10500.	69	5195	No
22	GOM_NL__2PRFIN20030227_010838_000000342014_00131_05195_5398.N1	27-FEB-2003 01:08:38	Bright	34.000	66	37Gam Cyg	2.2080	5900.0	68	5195	No
23	GOM_NL__2PRFIN20030227_011010_000000342014_00131_05195_5399.N1	27-FEB-2003 01:10:10	Bright	33.500	92	53Eps Cyg	2.5000	4500.0	67	5195	No
24	GOM_NL__2PRFIN20030227_011307_000000752014_00131_05195_5400.N1	27-FEB-2003 01:13:07	Bright	75.000	133	40Zet Her	2.8070	6000.0	150	5195	No
25	GOM_NL__2PRFIN20030227_011706_000000392014_00131_05195_5401.N1	27-FEB-2003 01:17:06	Bright	38.500	168	17Zet Aql	2.9860	11000.	77	5195	No
26	GOM_NL__2PRFIN20030227_012009_000000652014_00131_05195_5402.N1	27-FEB-2003 01:20:09	Tw_i_and_stray	65.000	59	55Alp Oph	2.0800	8900.0	130	5195	No
27	GOM_NL__2PRFIN20030227_012239_000000652014_00131_05195_5403.N1	27-FEB-2003 01:22:39	Straylight	64.500	126	60Bet Oph	2.7700	4250.0	129	5195	No
28	GOM_NL__2PRFIN20030227_012650_000000402014_00131_05195_5404.N1	27-FEB-2003 01:26:50	Dark	40.000	155	41Pi Sgr	2.9000	6600.0	80	5195	No
29	GOM_NL__2PRFIN20030227_012837_000000422014_00131_05195_5405.N1	27-FEB-2003 01:28:37	Dark	41.500	57	34Sig Sgr	2.0660	26000.	83	5195	No
30	GOM_NL__2PRFIN20030227_013104_000000582014_00131_05195_5406.N1	27-FEB-2003 01:31:04	Dark	58.000	86	35Eta Oph	2.4300	10200.	116	5195	No
31	GOM_NL__2PRFIN20030227_013305_000000782014_00131_05195_5407.N1	27-FEB-2003 01:33:05	Dark	77.500	98	13Zet Oph	2.5710	30000.	155	5195	No
32	GOM_NL__2PRFIN20030227_013619_000000532014_00131_05195_5408.N1	27-FEB-2003 01:36:19	Dark	52.500	75	26Eps Sco	2.2910	4250.0	105	5195	No
33	GOM_NL__2PRFIN20030227_014448_000000462014_00132_05196_5377.N1	27-FEB-2003 01:44:48	Dark	46.000	4	Alp1Cen	-0.010000	5800.0	92	5196	No
34	GOM_NL__2PRFIN20030227_014607_000000412014_00132_05196_5378.N1	27-FEB-2003 01:46:07	Dark	41.000	10	Bet Cen	0.610000	28000.	82	5196	No
35	GOM_NL__2PRFIN20030227_014751_000000432014_00132_05196_5379.N1	27-FEB-2003 01:47:51	Dark	43.000	77	Eps Cen	2.3030	28000.	86	5196	No
36	GOM_NL__2PRFIN20030227_014928_000000712014_00132_05196_5380.N1	27-FEB-2003 01:49:28	Dark	71.000	54	5The Cen	2.0550	4500.0	142	5196	No
37	GOM_NL__2PRFIN20030227_015309_000000402014_00132_05196_5381.N1	27-FEB-2003 01:53:09	Dark	40.000	71	lot Car	2.2460	7700.0	80	5196	No
38	GOM_NL__2PRFIN20030227_015441_000000392014_00132_05196_5382.N1	27-FEB-2003 01:54:41	Straylight	39.000	46	Del Vel	1.9540	10600.	78	5196	No
39	GOM_NL__2PRFIN20030227_015733_000000462014_00132_05196_5383.N1	27-FEB-2003 01:57:33	Straylight	45.500	65	Lam Vel	2.2040	4400.0	91	5196	No
40	GOM_NL__2PRFIN20030227_015953_000000752014_00132_05196_5384.N1	27-FEB-2003 01:59:53	Straylight	74.500	106	9Bet Crv	2.6480	5600.0	149	5196	No
41	GOM_NL__2PRFIN20030227_020307_000000742014_00132_05196_5385.N1	27-FEB-2003 02:03:07	Straylight	74.000	100	4Gam Crv	2.5800	13100.	148	5196	No
42	GOM_NL__2PRFIN20030227_020706_000000472014_00132_05196_5386.N1	27-FEB-2003 02:07:06	Tw_i_and_stray	46.500	48	30Alp Hya	1.9770	4100.0	93	5196	No

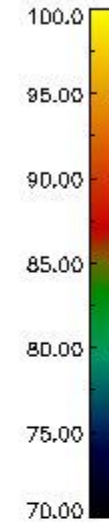
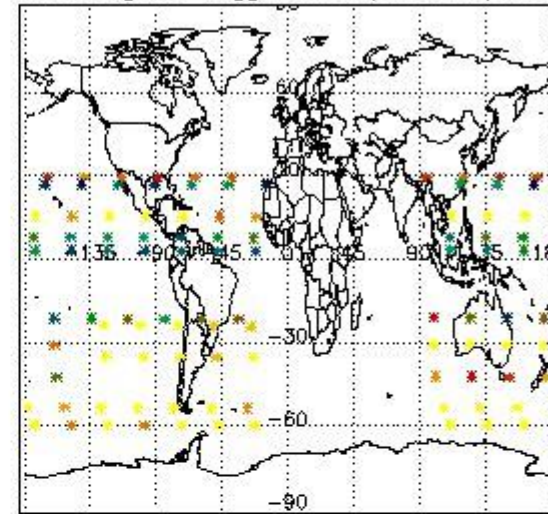


3.2 Plot quality information per product (world map)

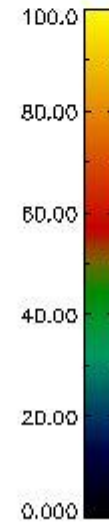
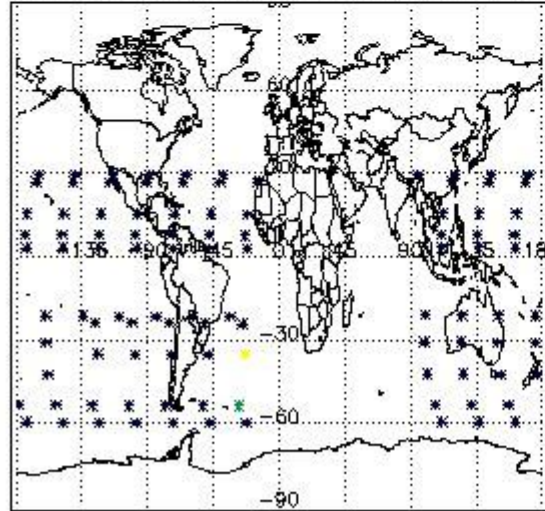
Percentage of flagged data per O3 profile



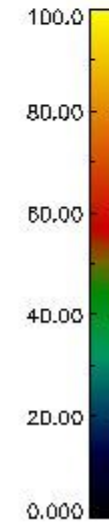
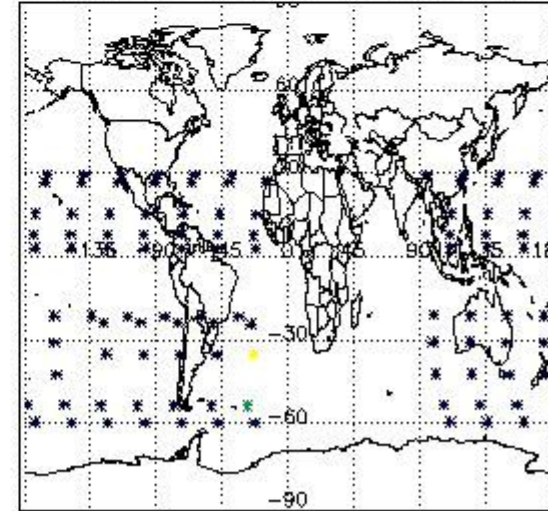
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

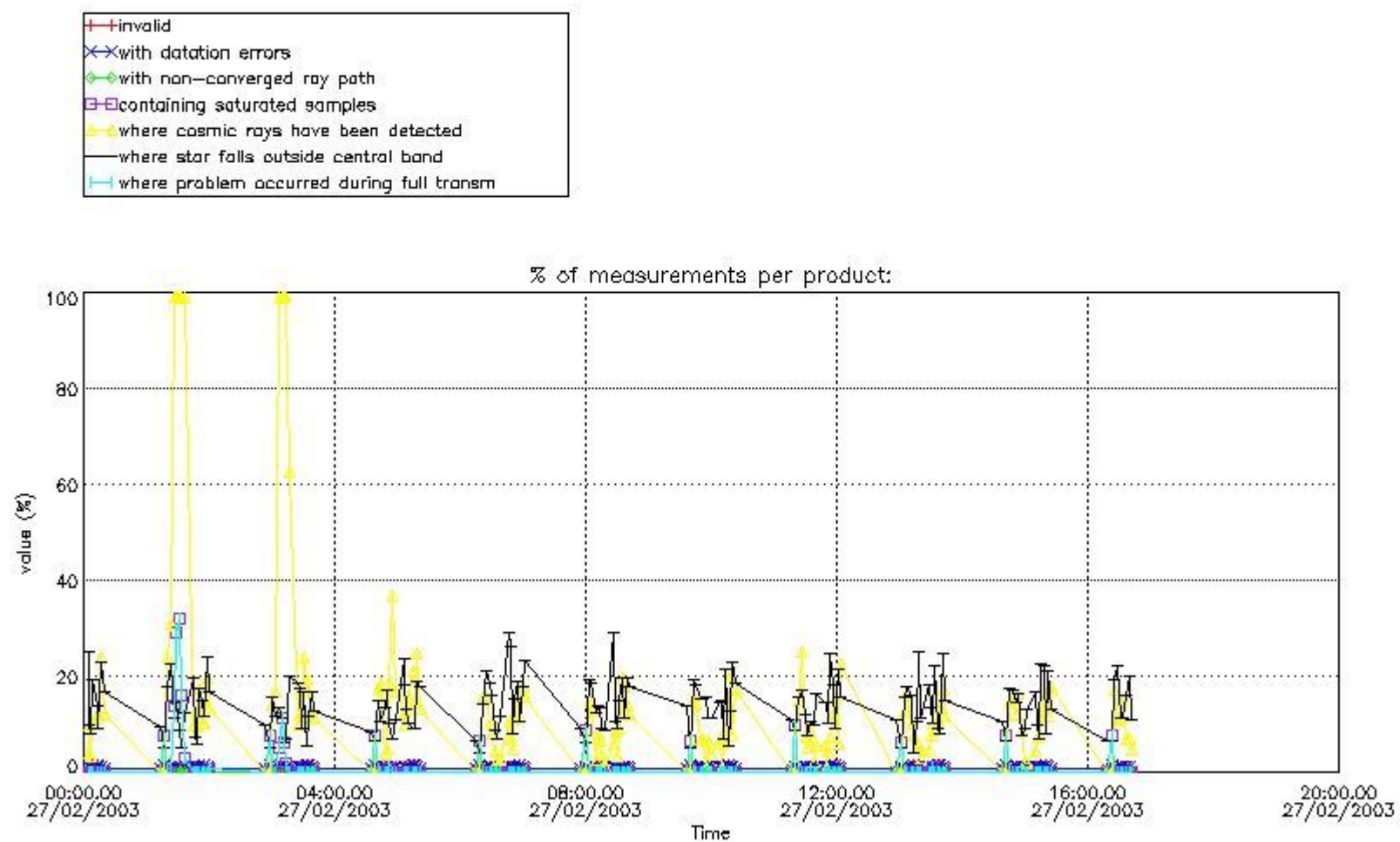


4. Level 1 quality information per product

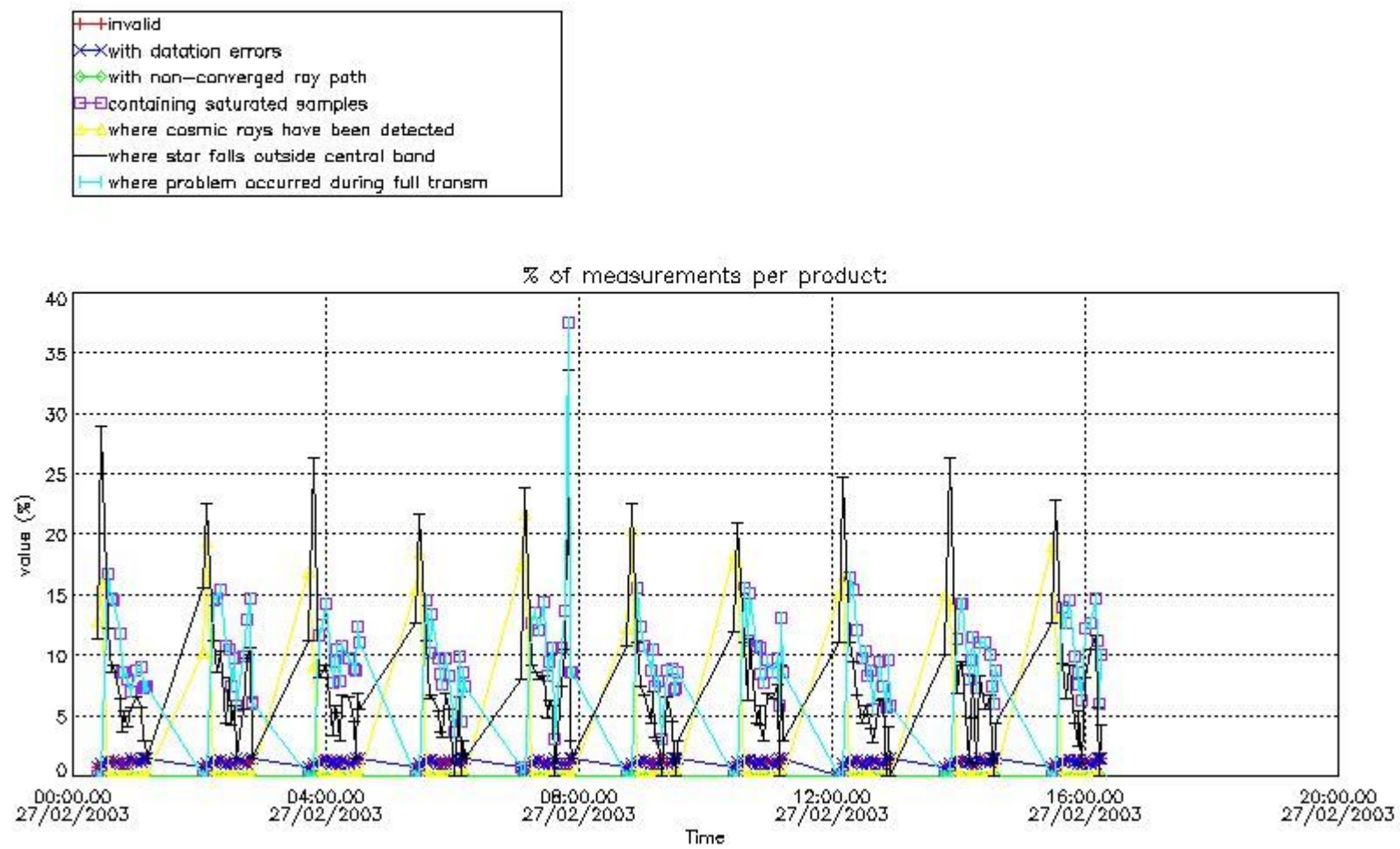
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

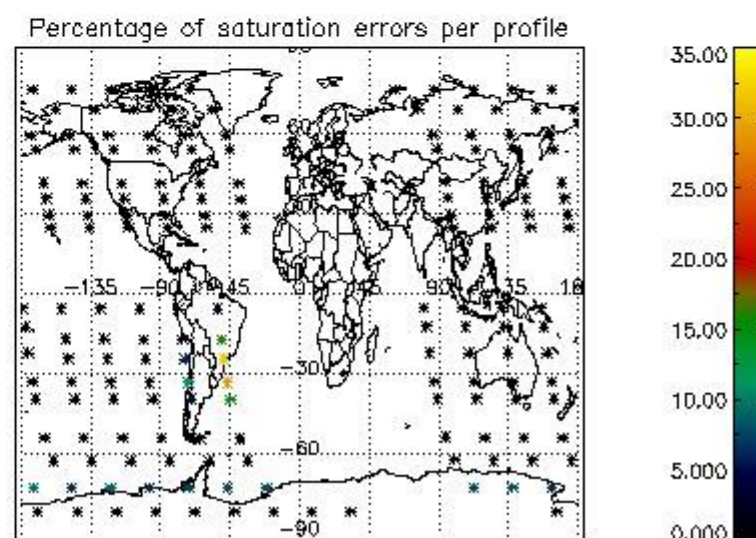
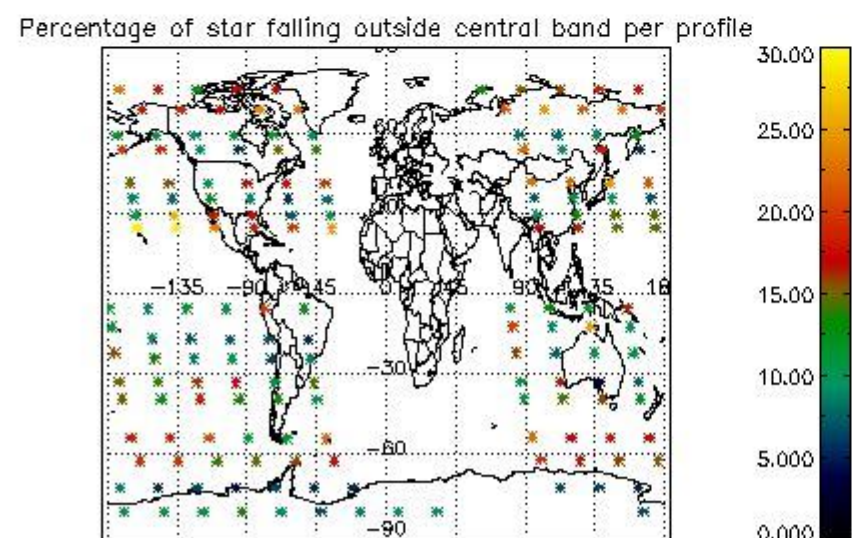
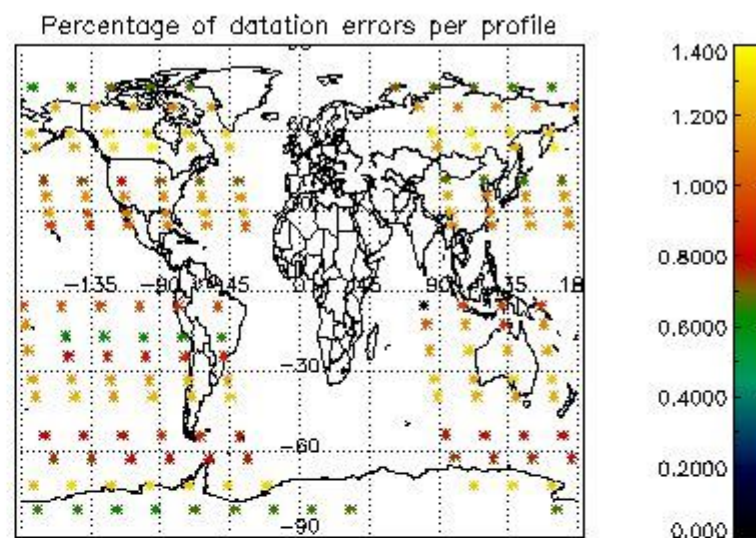
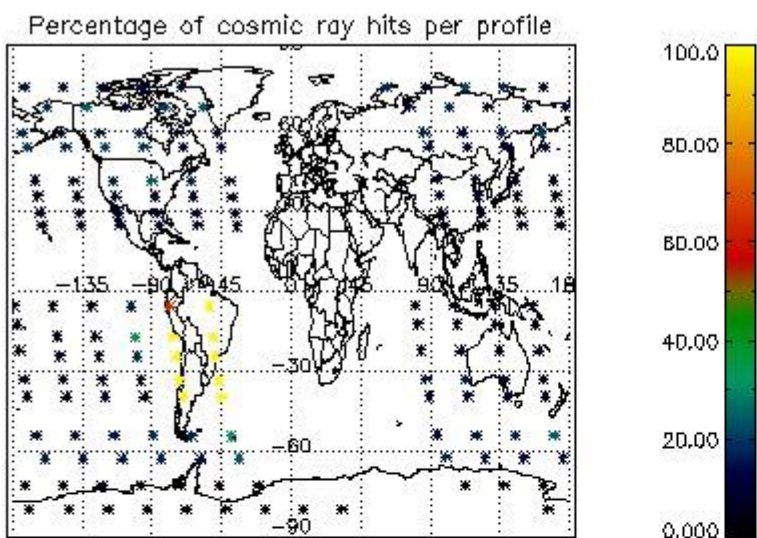


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

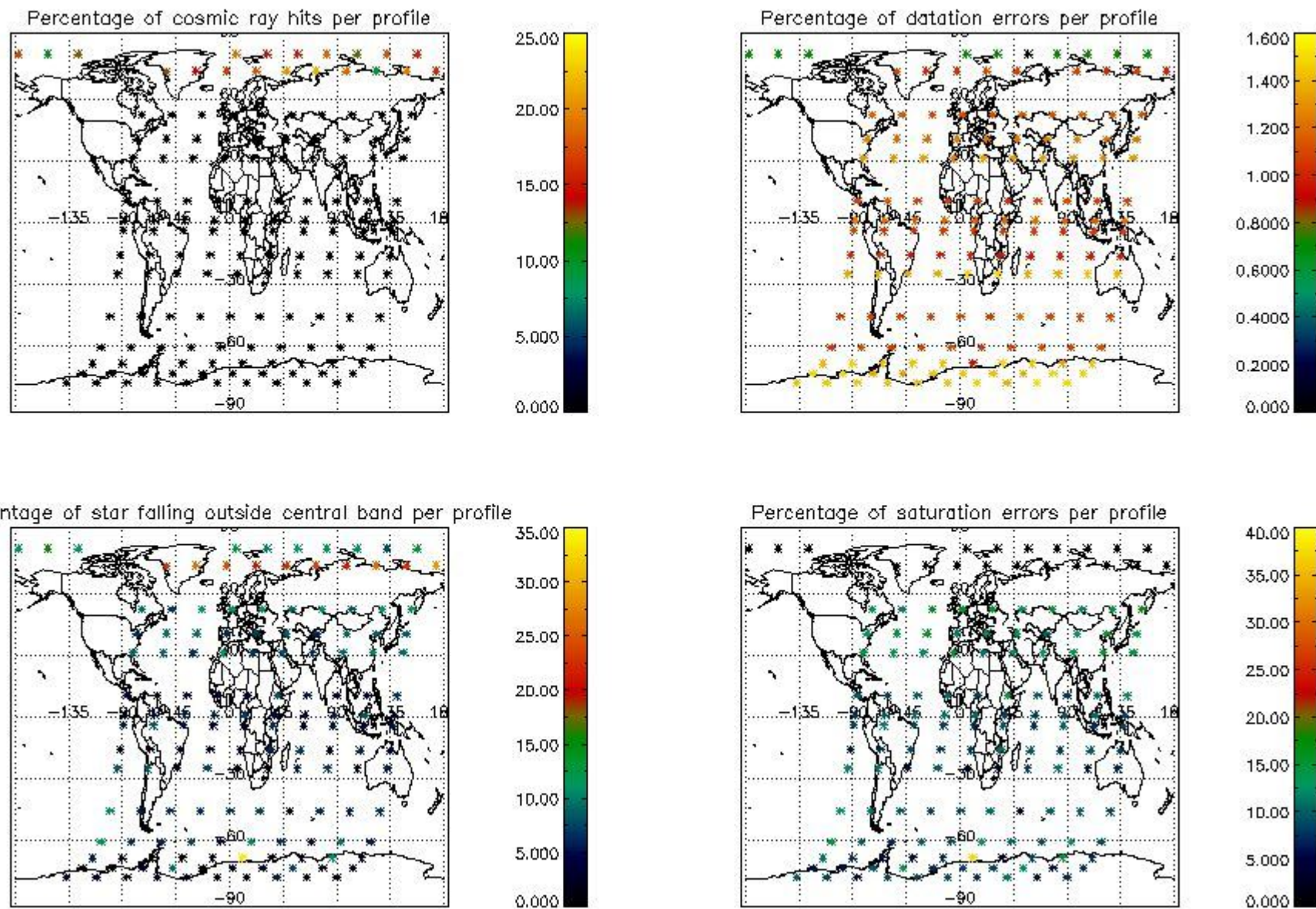


4.2 Plot quality information per product coming from level 1b processing (world map)

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



4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

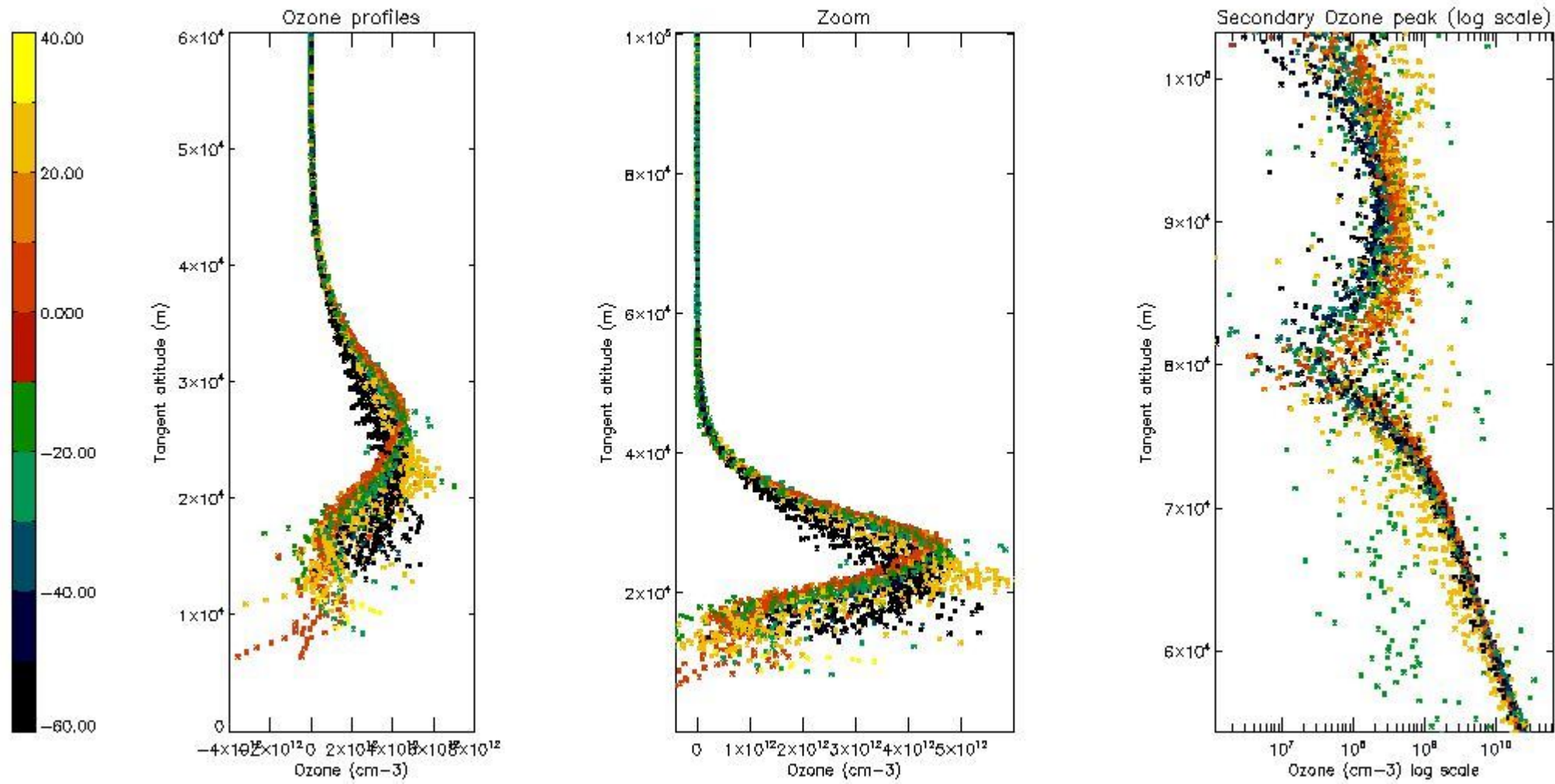
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

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

STD < 10	16
STD < 5	11

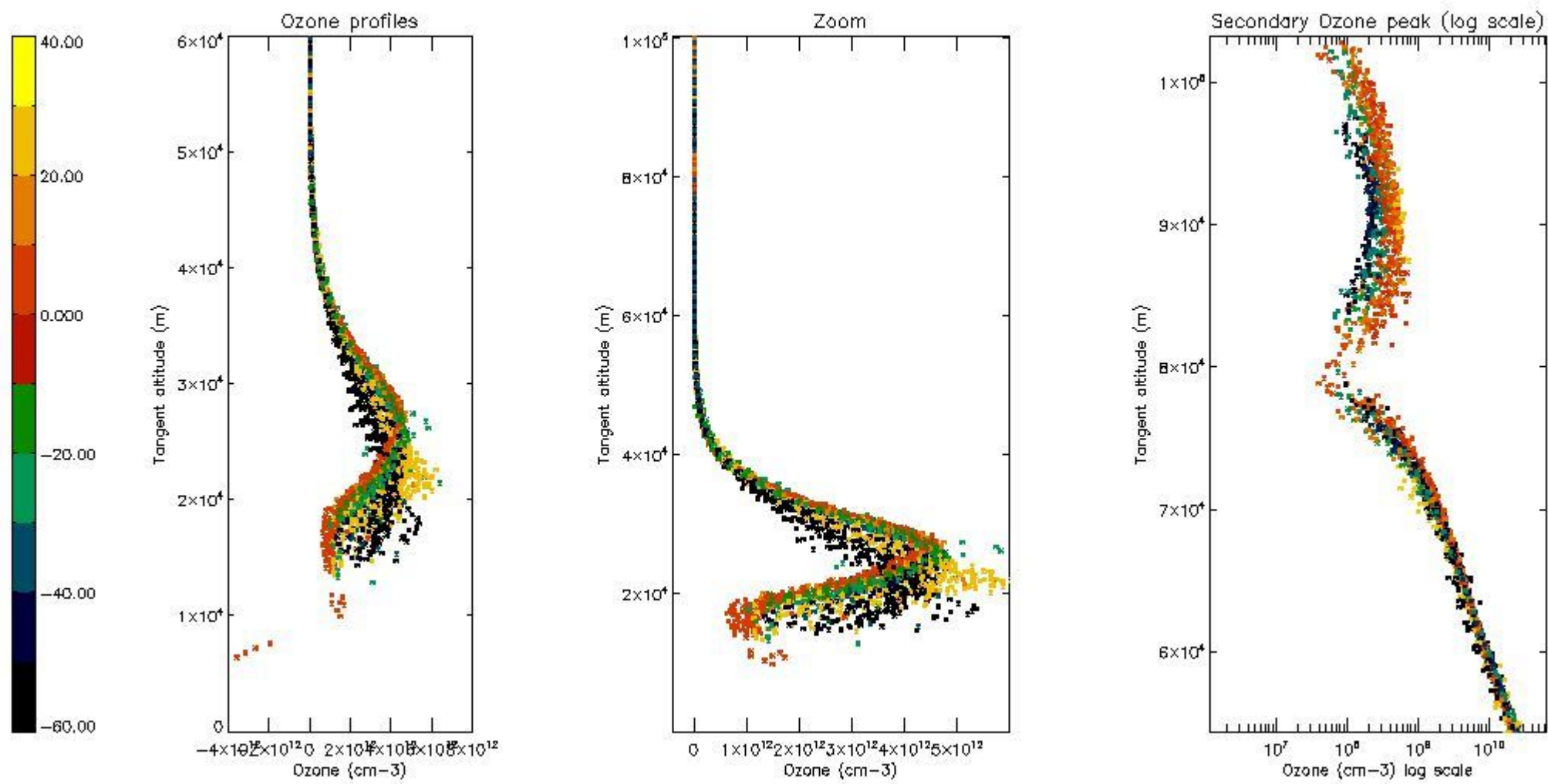
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



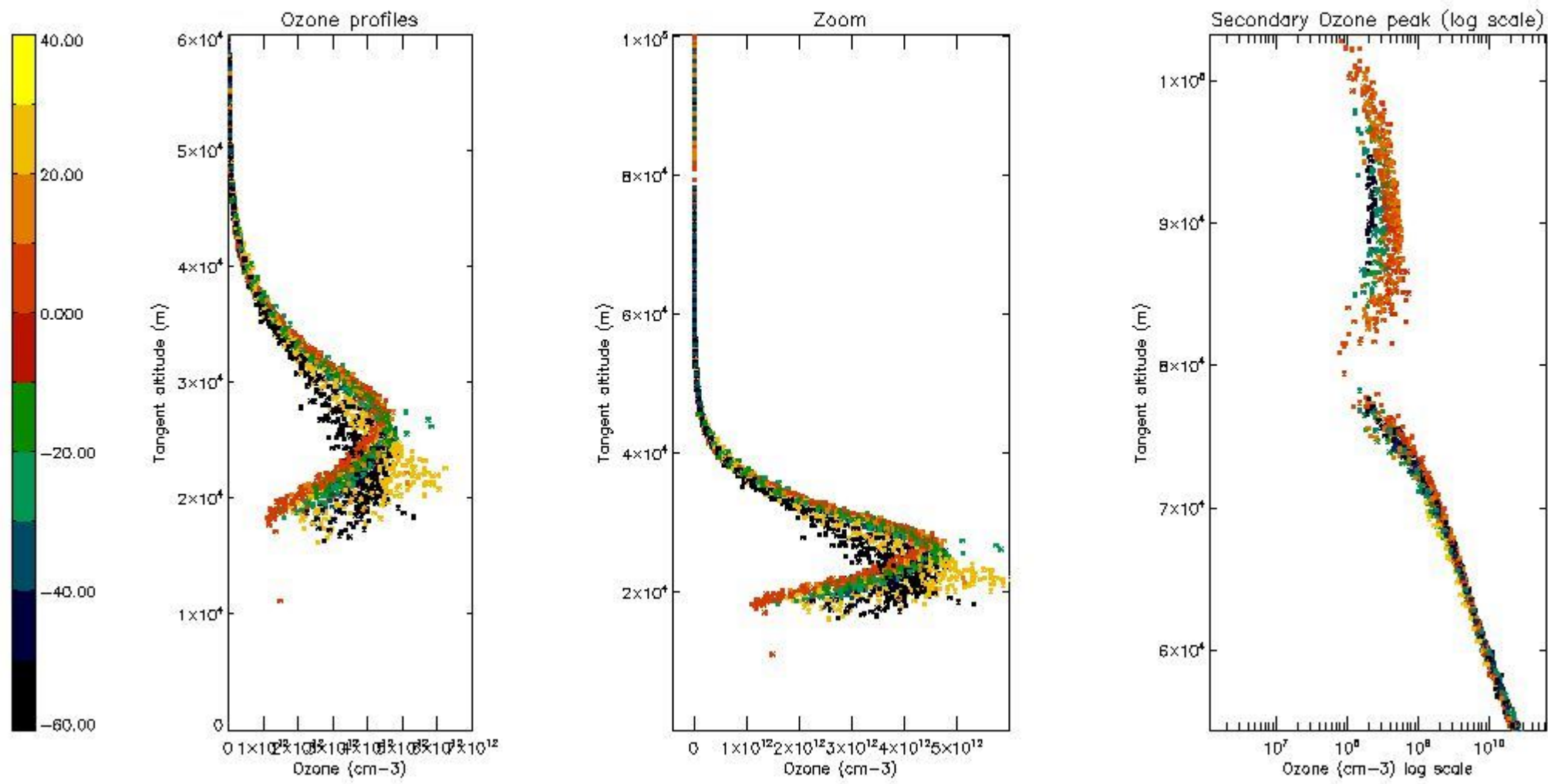
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



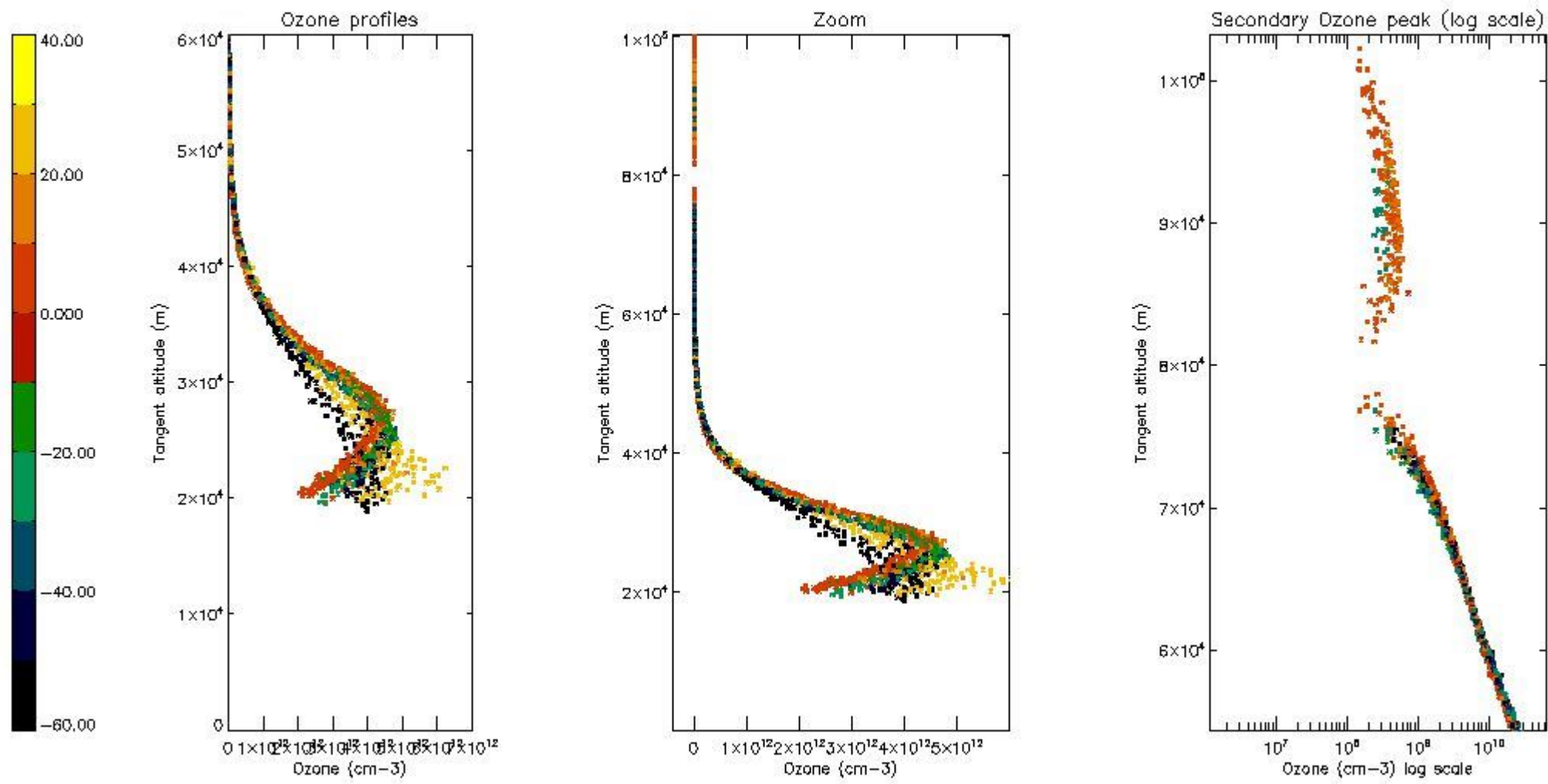
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



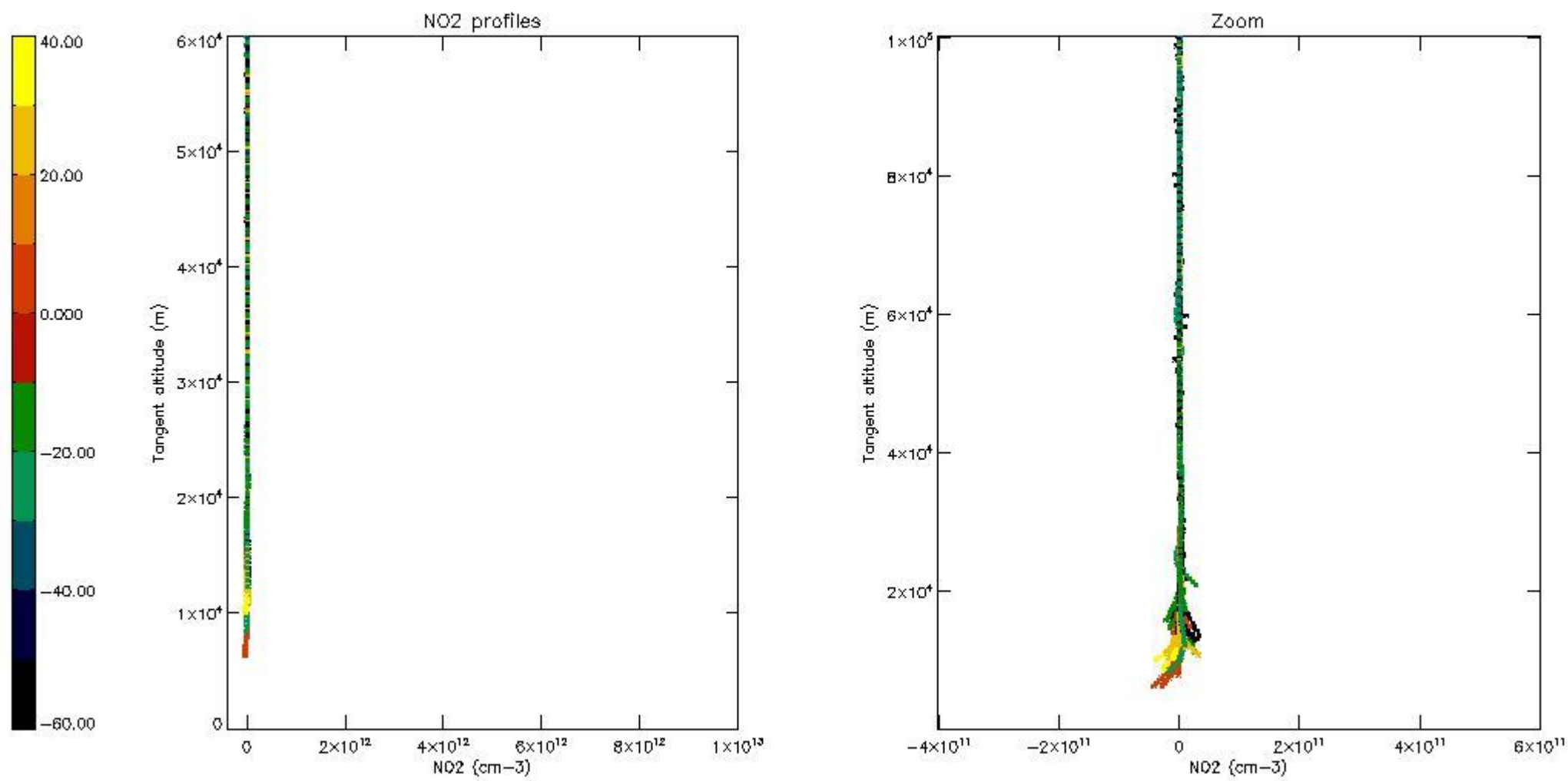
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



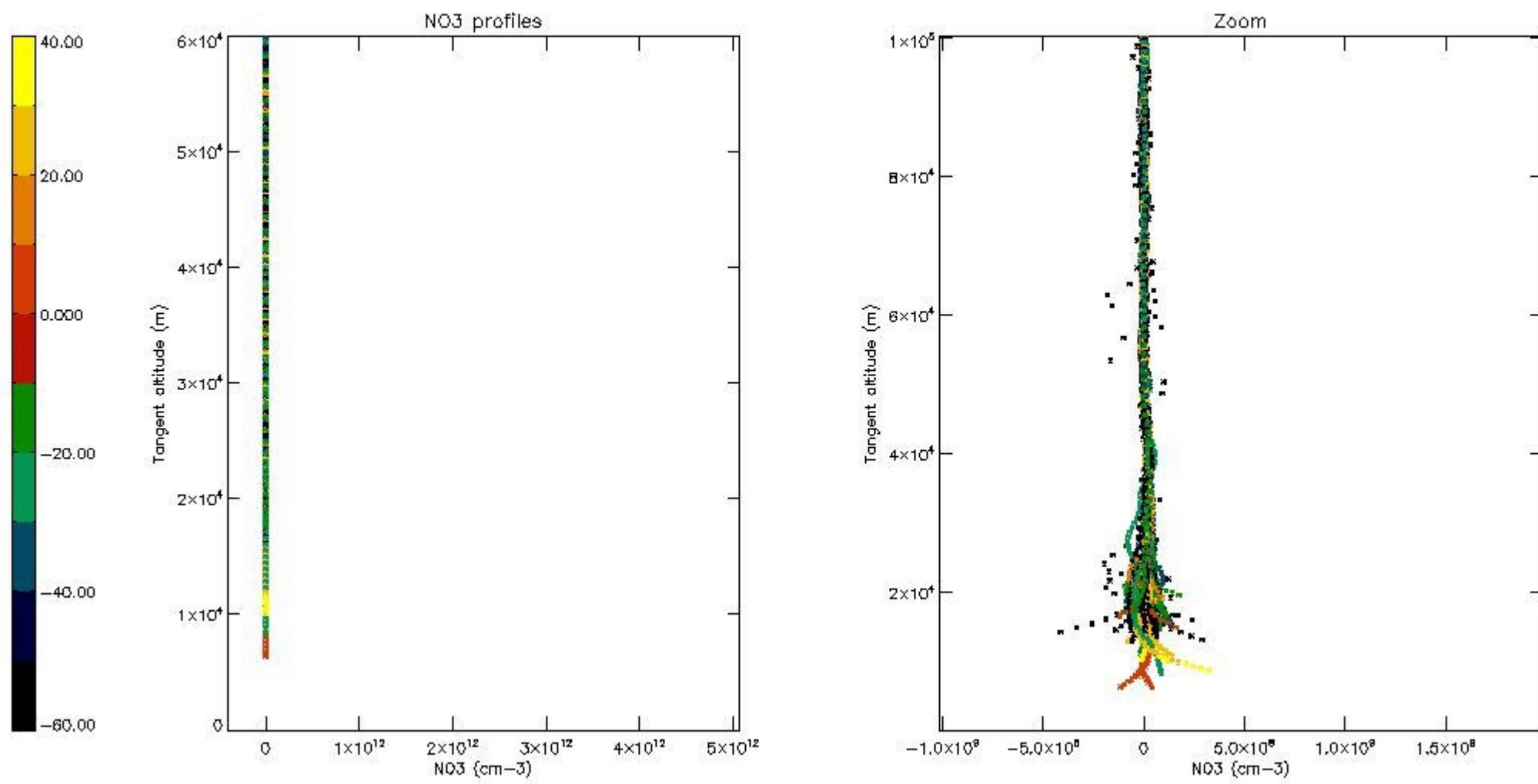
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



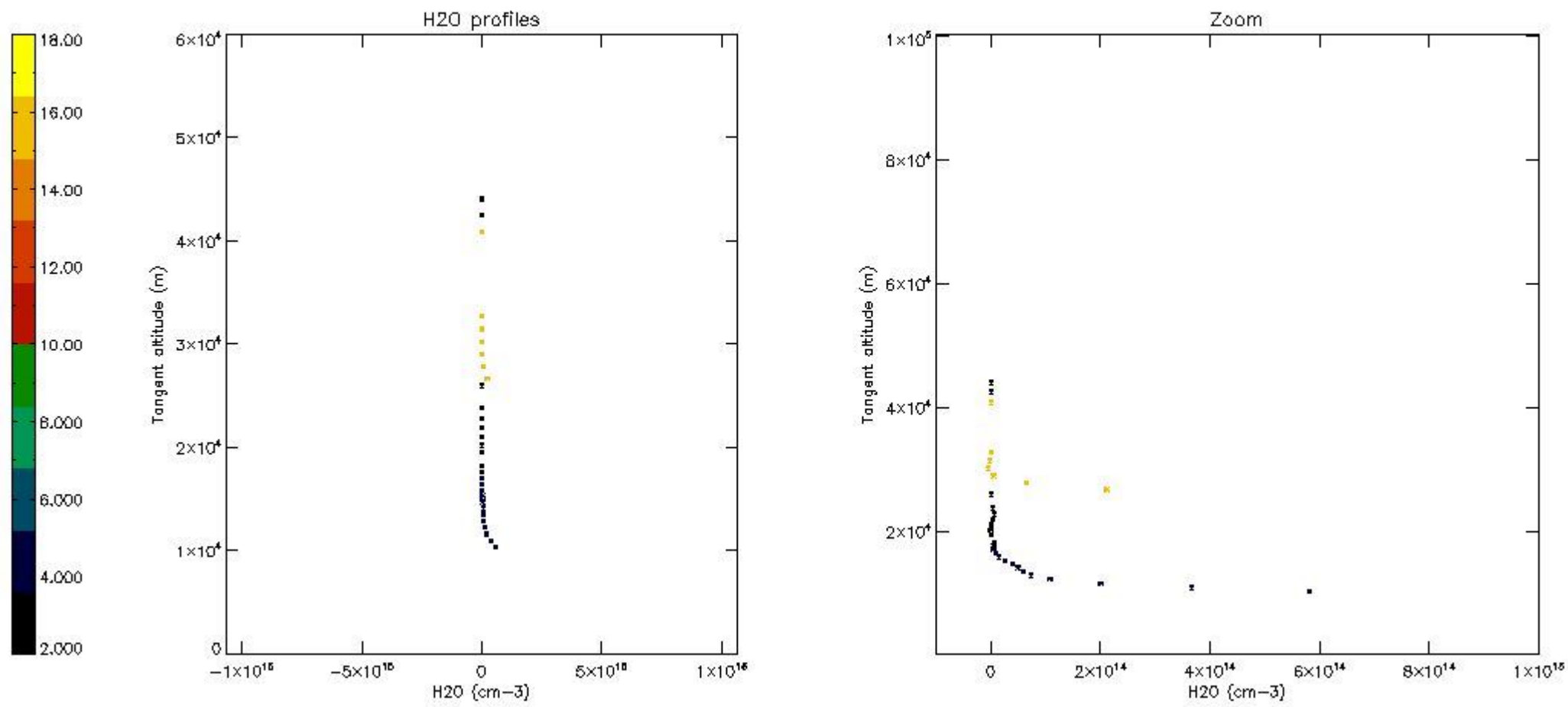
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

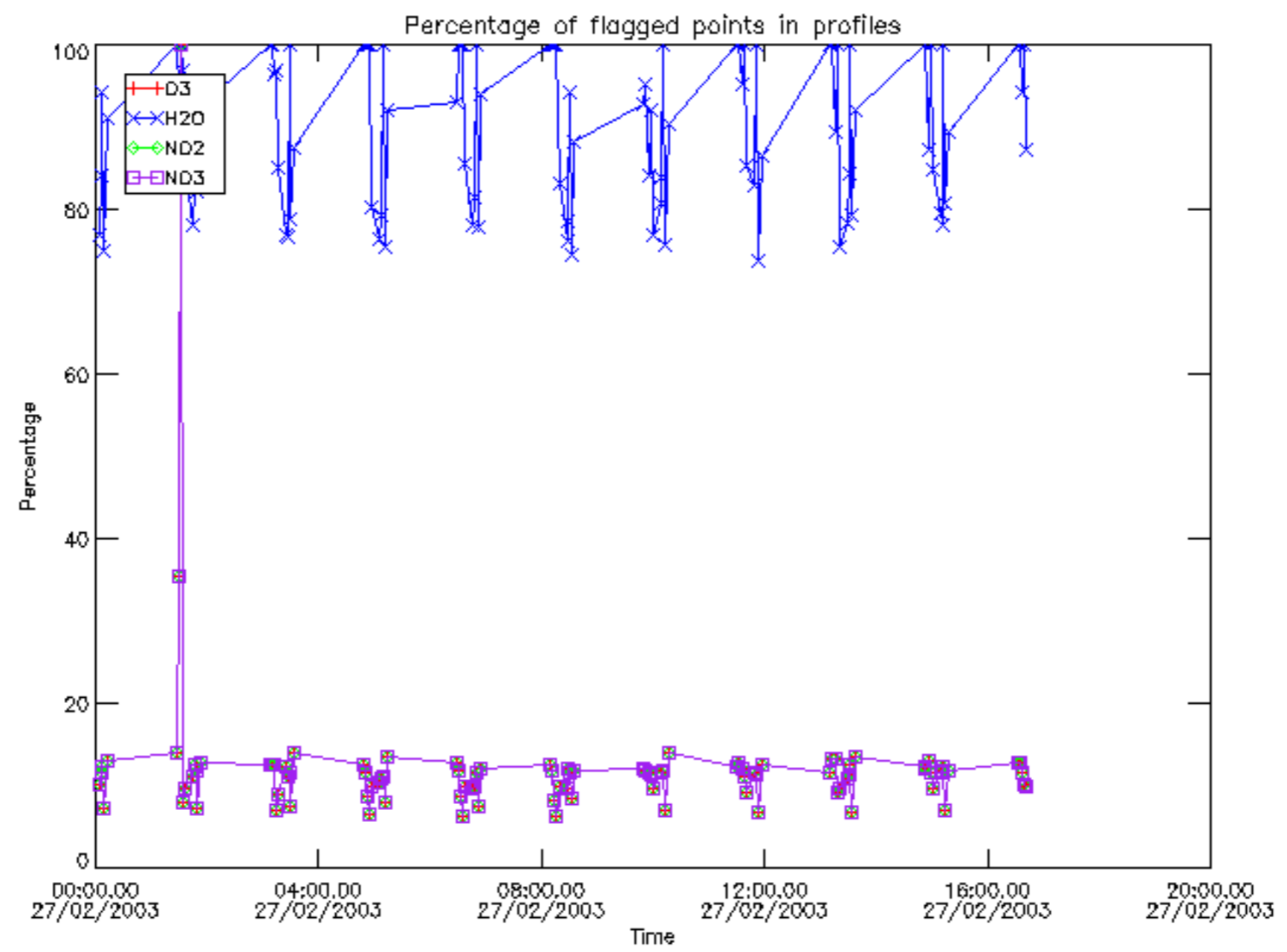
The colorbar represents the latitude.



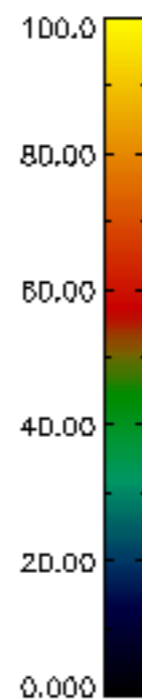
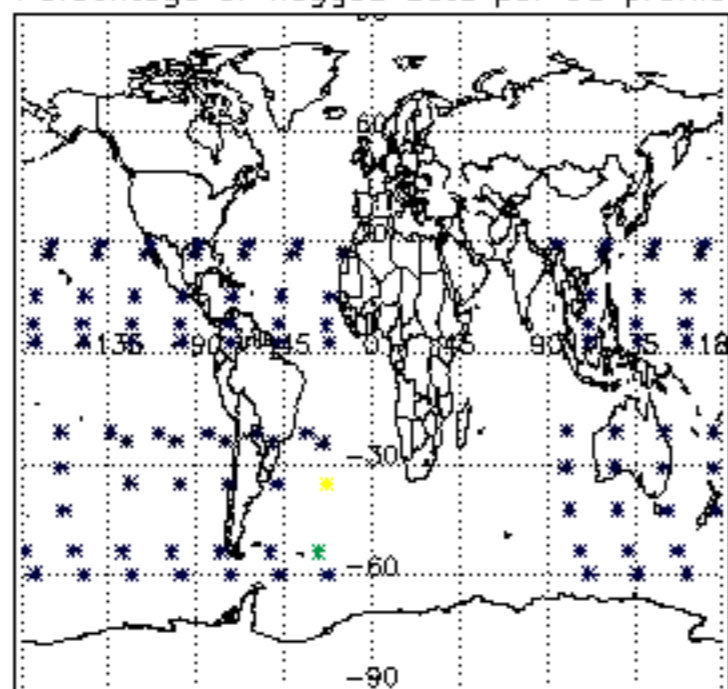
6. Auxiliary Data Files used for the production reported in section 2

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.

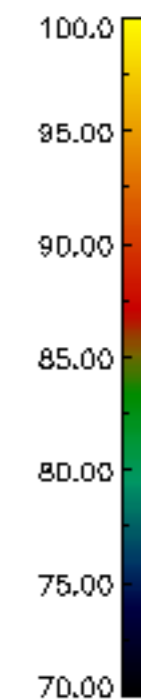
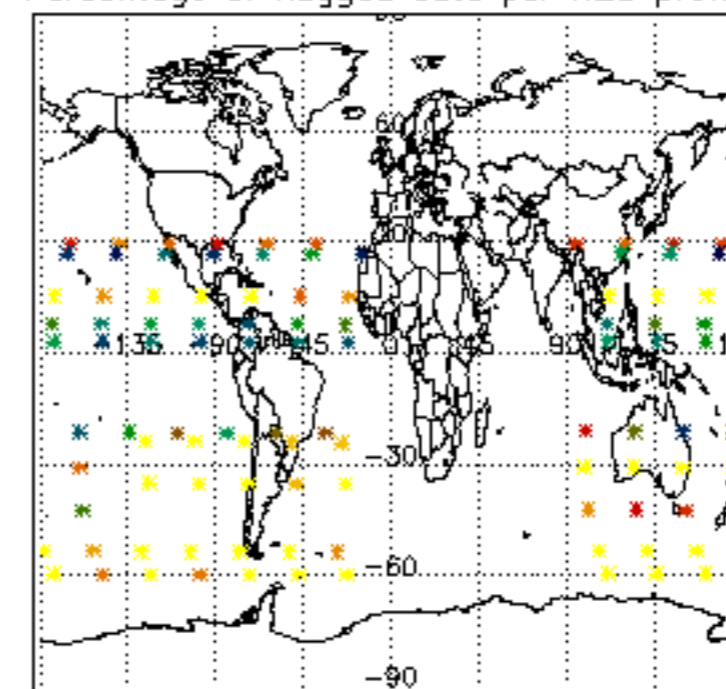
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	27-FEB-2003 00:04:12
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	27-FEB-2003 00:04:12
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	27-FEB-2003 00:04:12



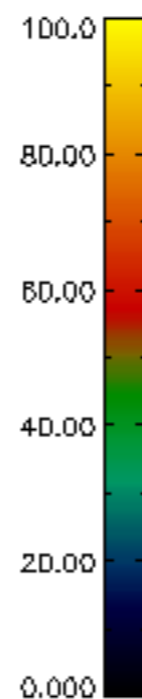
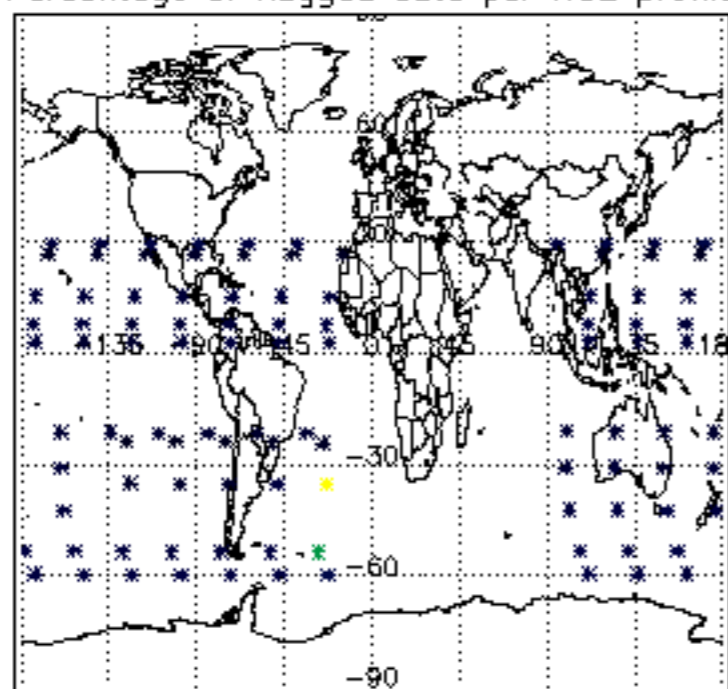
Percentage of flagged data per D3 profile



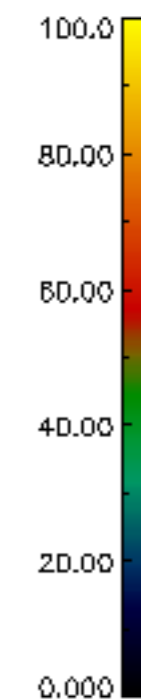
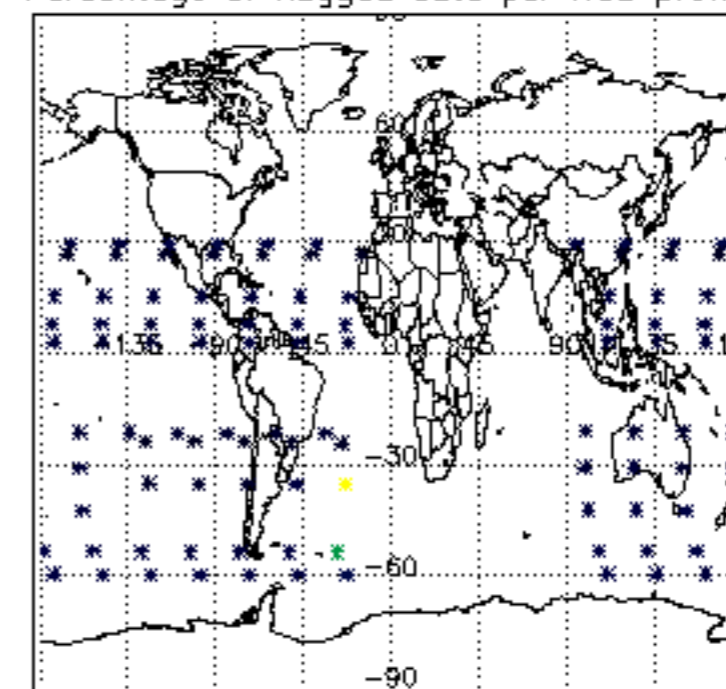
Percentage of flagged data per H2O profile

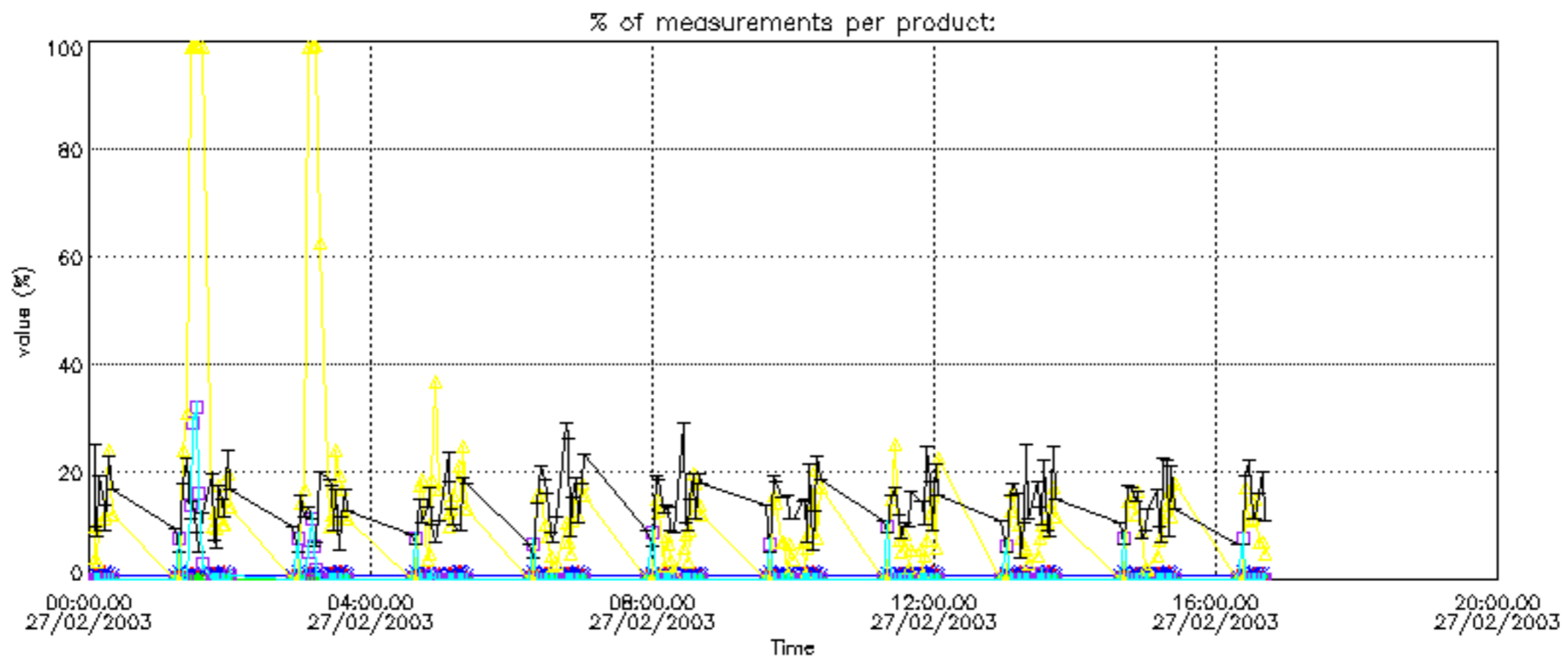
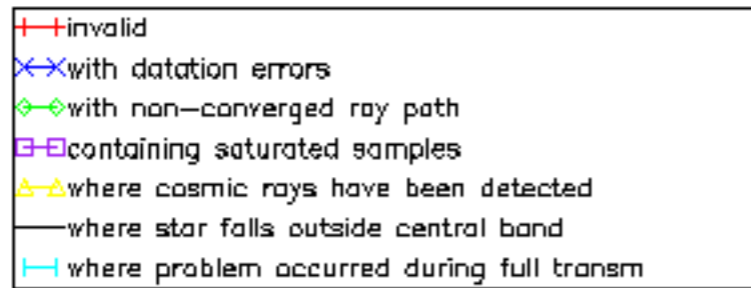


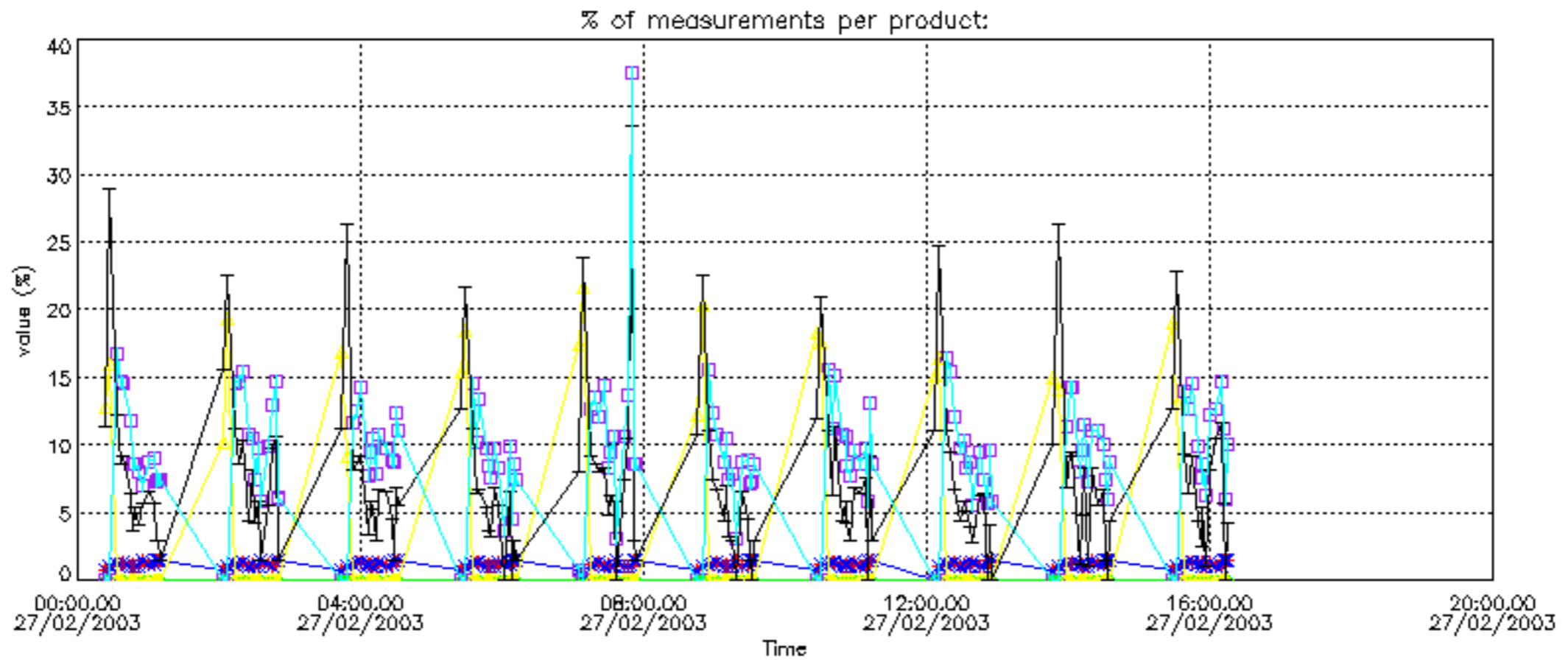
Percentage of flagged data per NO2 profile



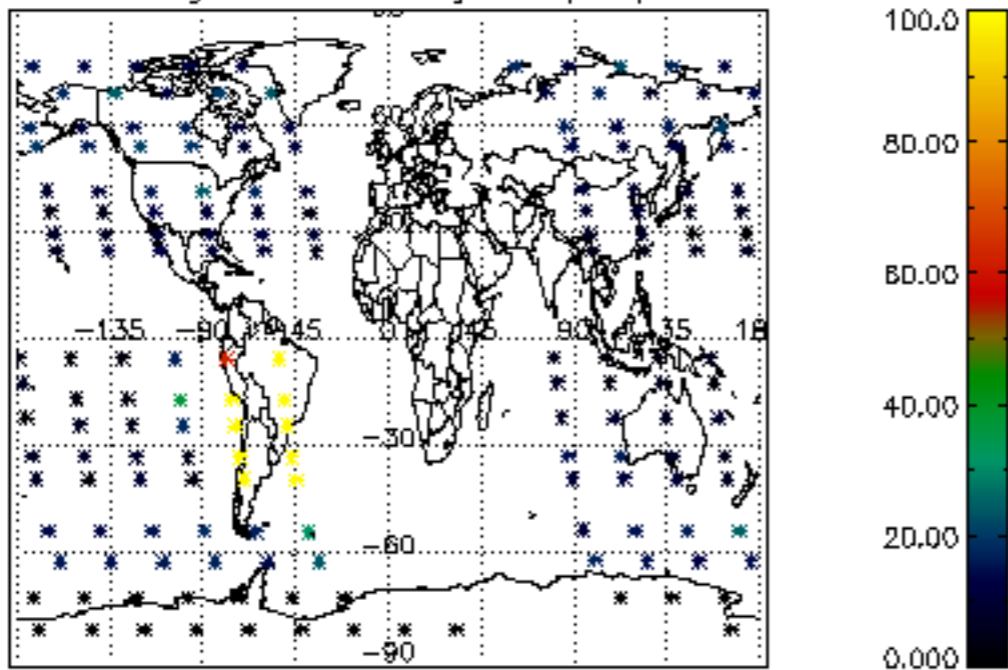
Percentage of flagged data per NO3 profile



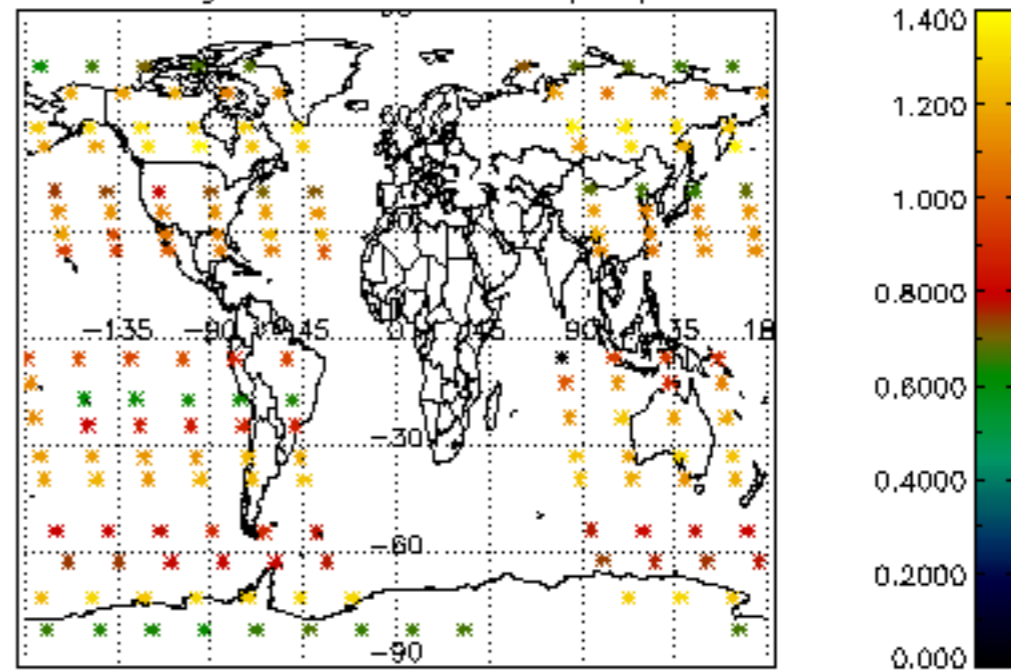




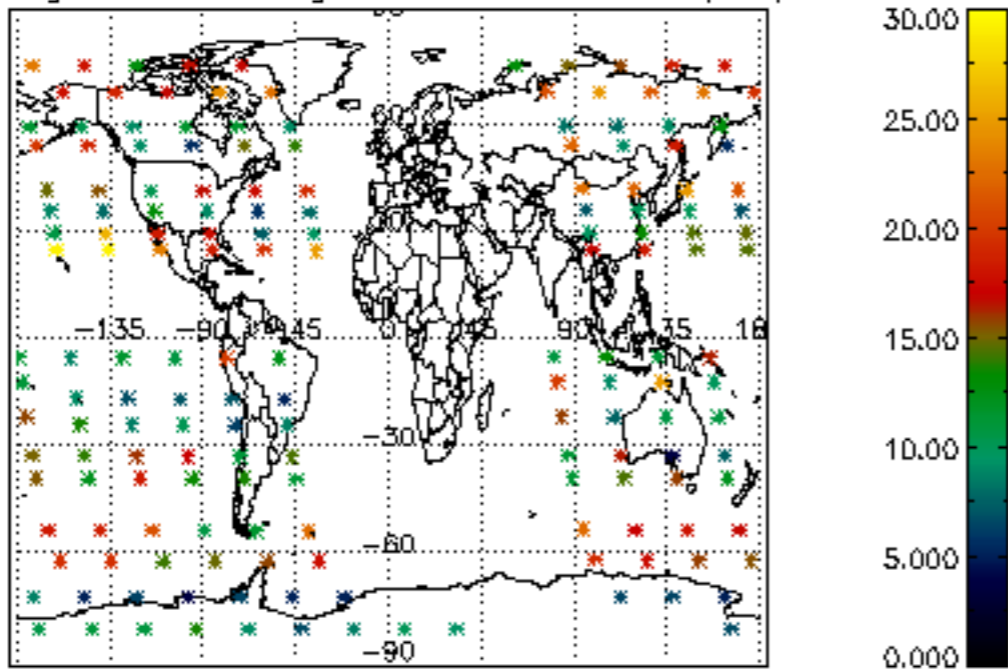
Percentage of cosmic ray hits per profile



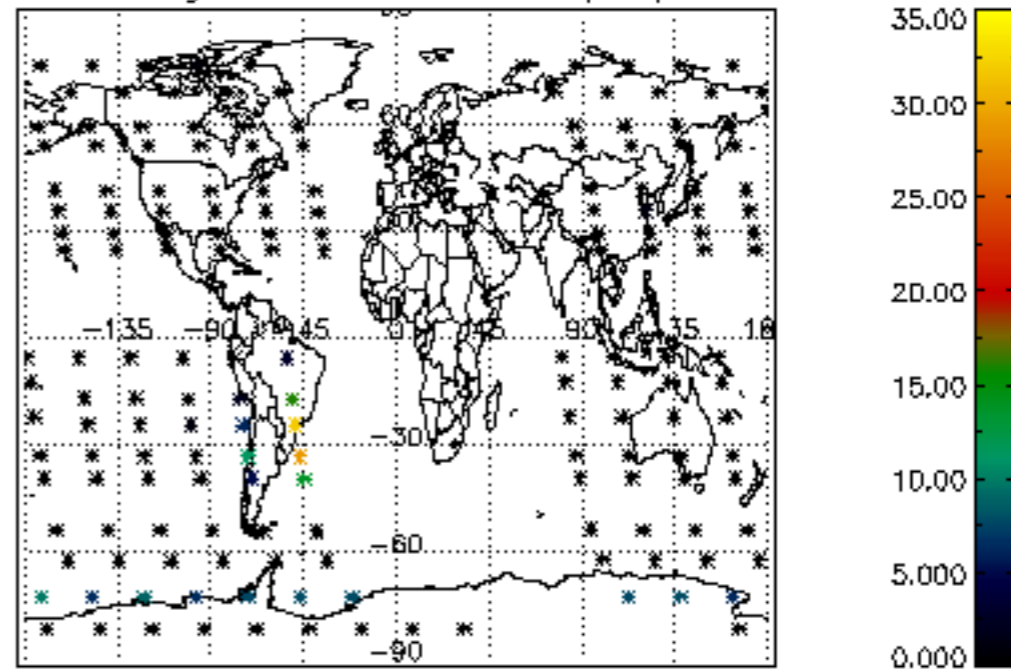
Percentage of datation errors per profile



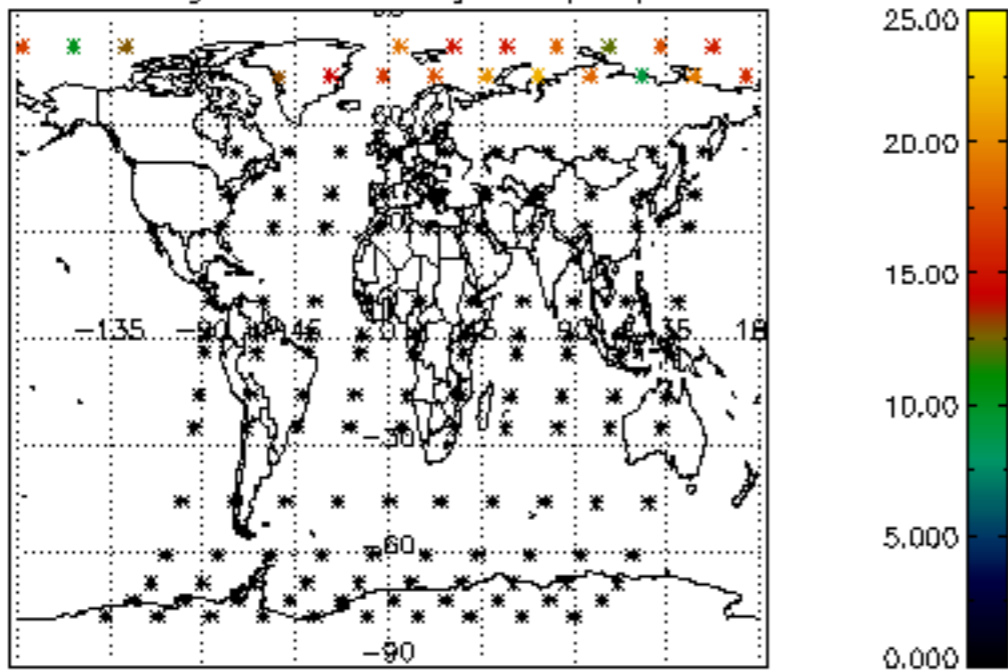
Percentage of star falling outside central band per profile



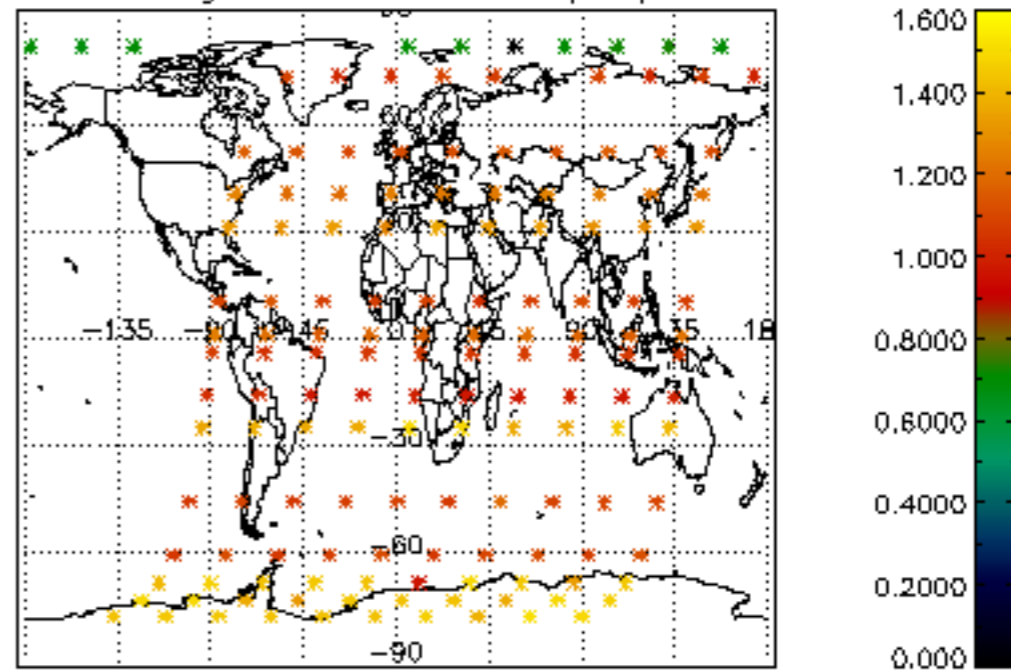
Percentage of saturation errors per profile



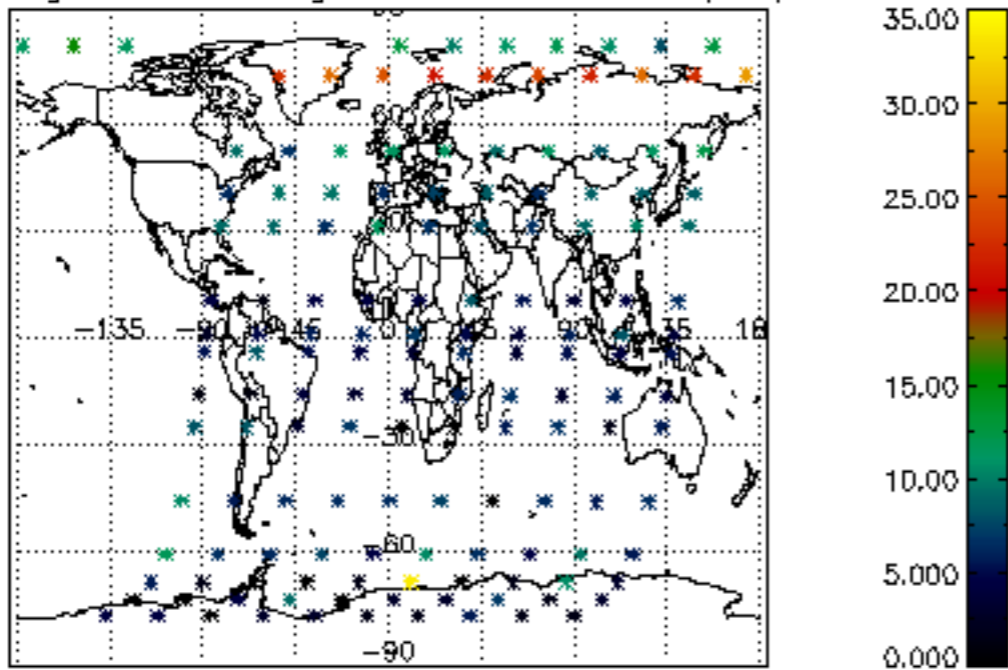
Percentage of cosmic ray hits per profile



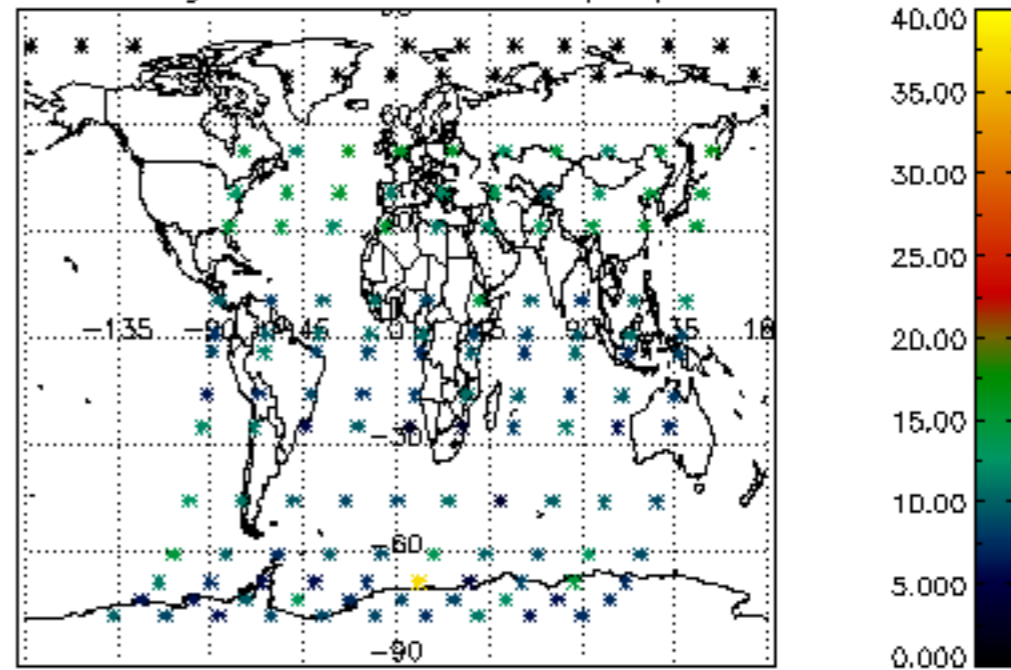
Percentage of datation errors per profile

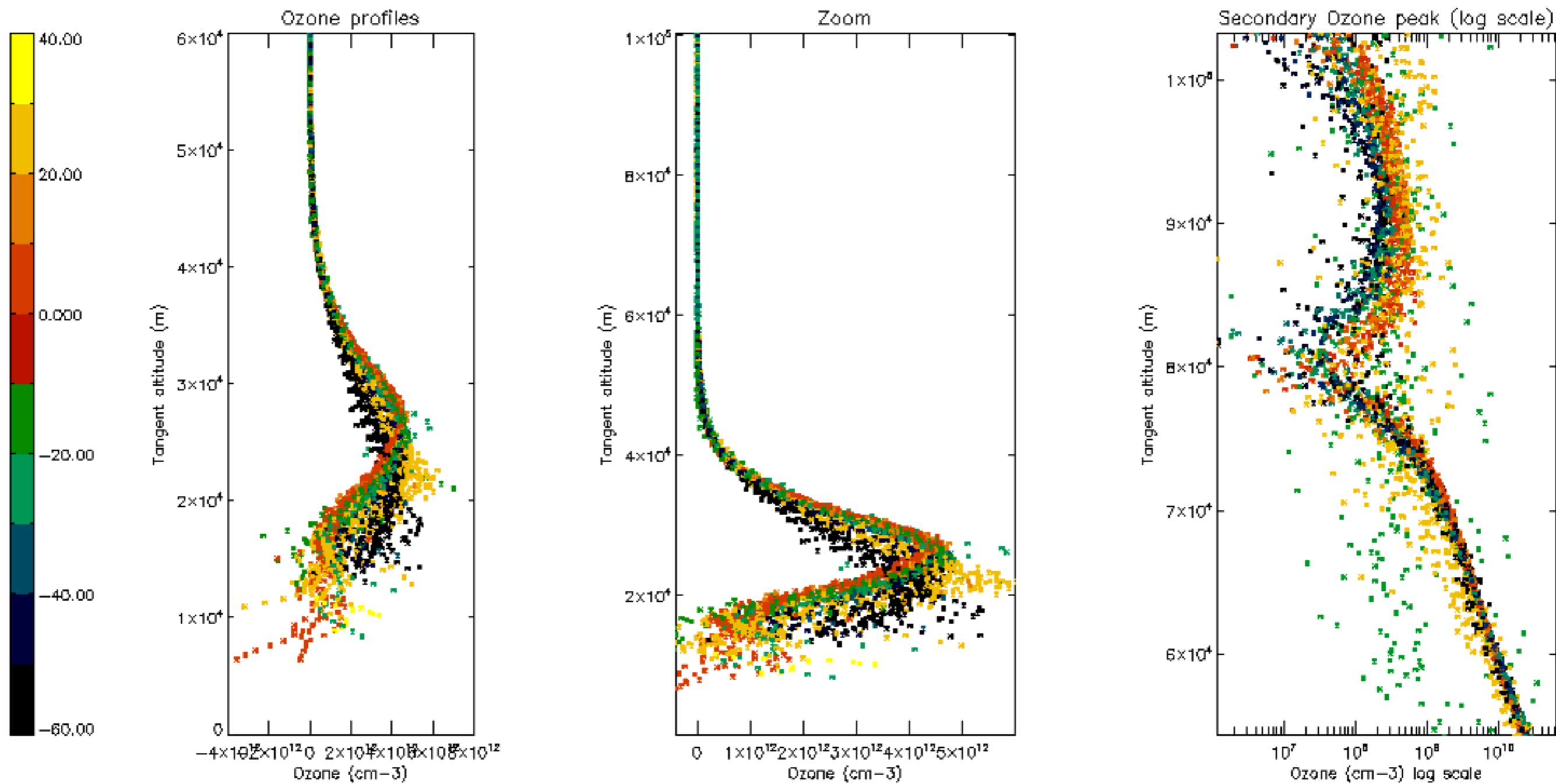


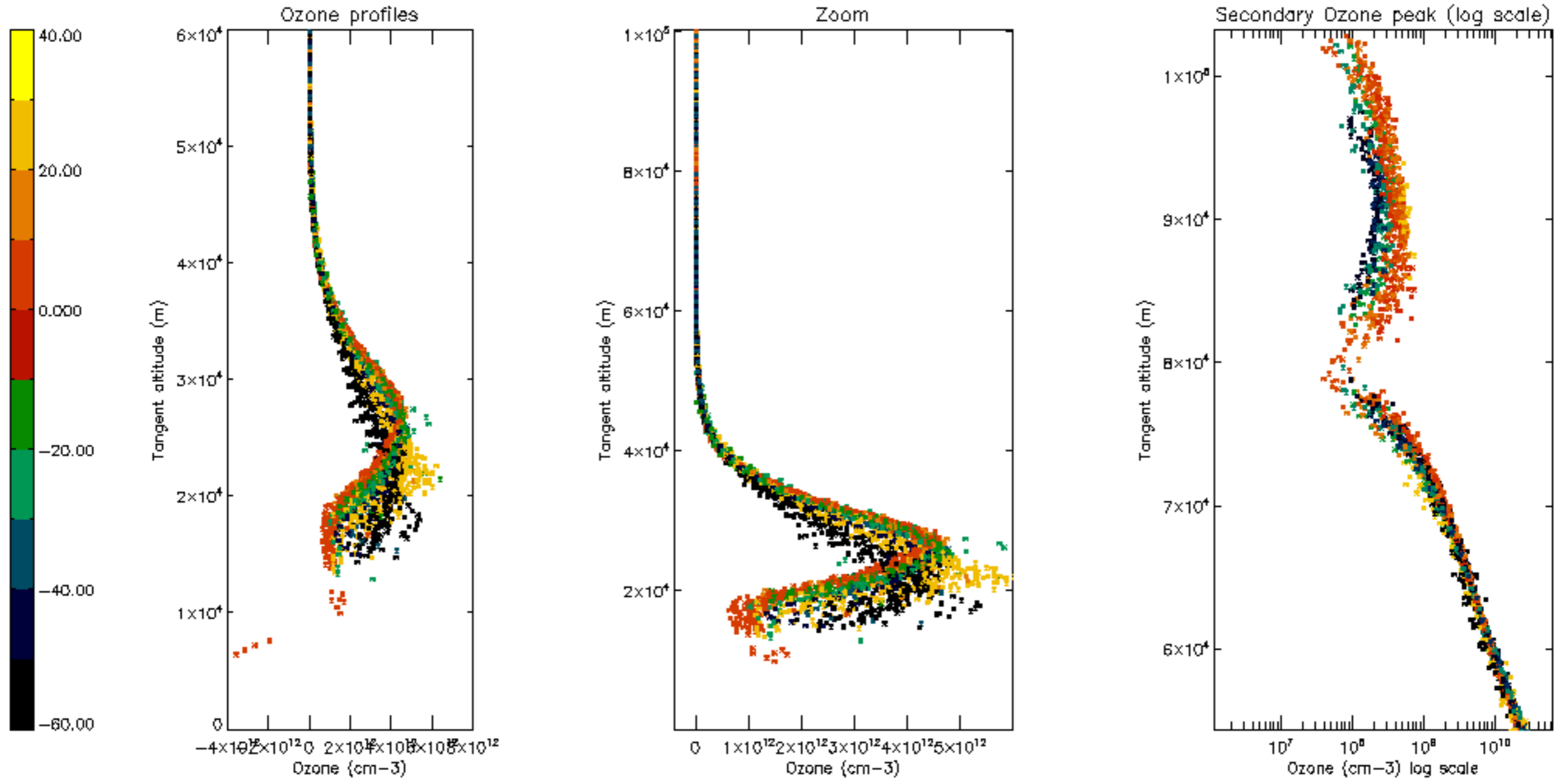
Percentage of star falling outside central band per profile

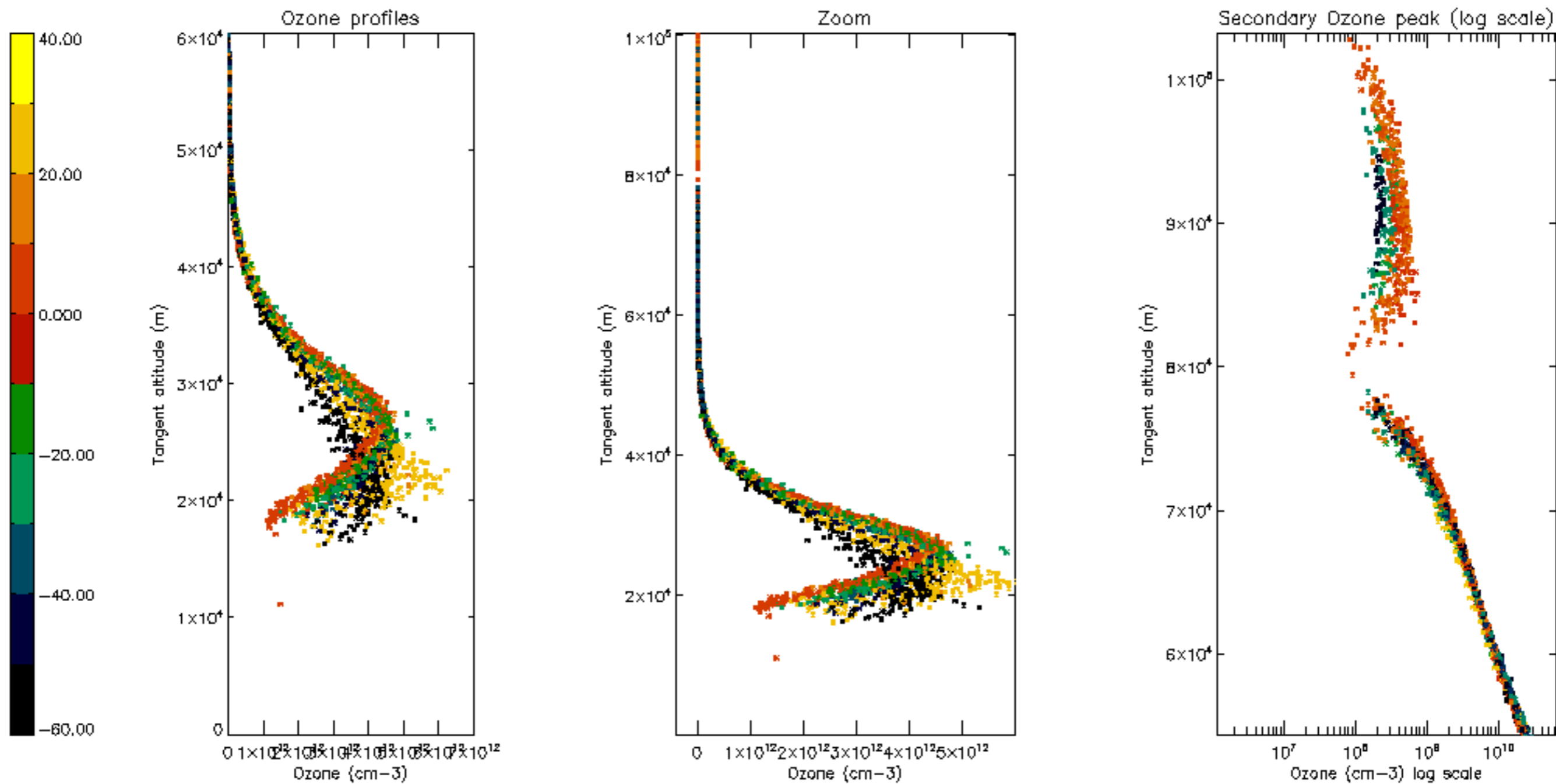


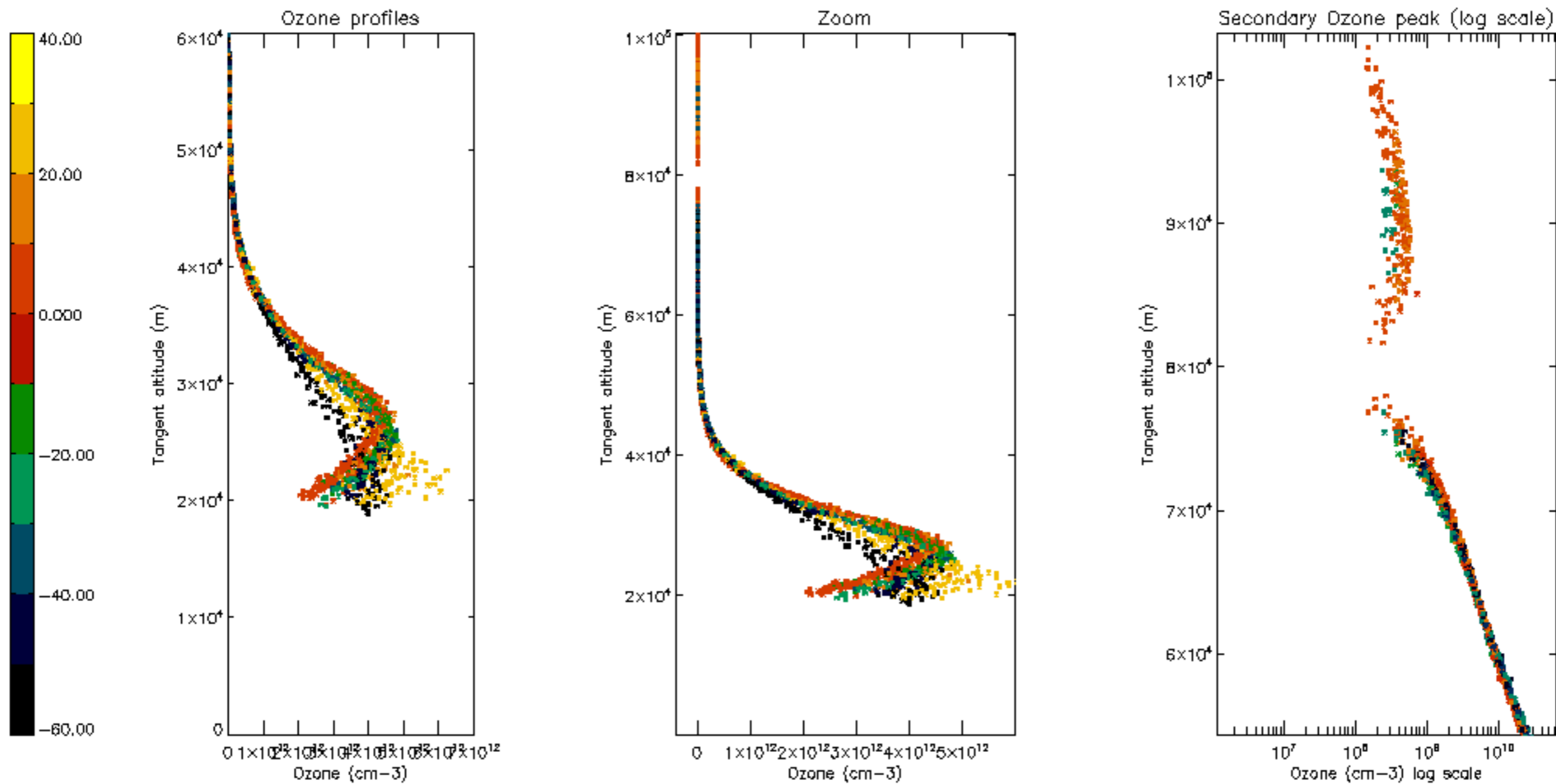
Percentage of saturation errors per profile

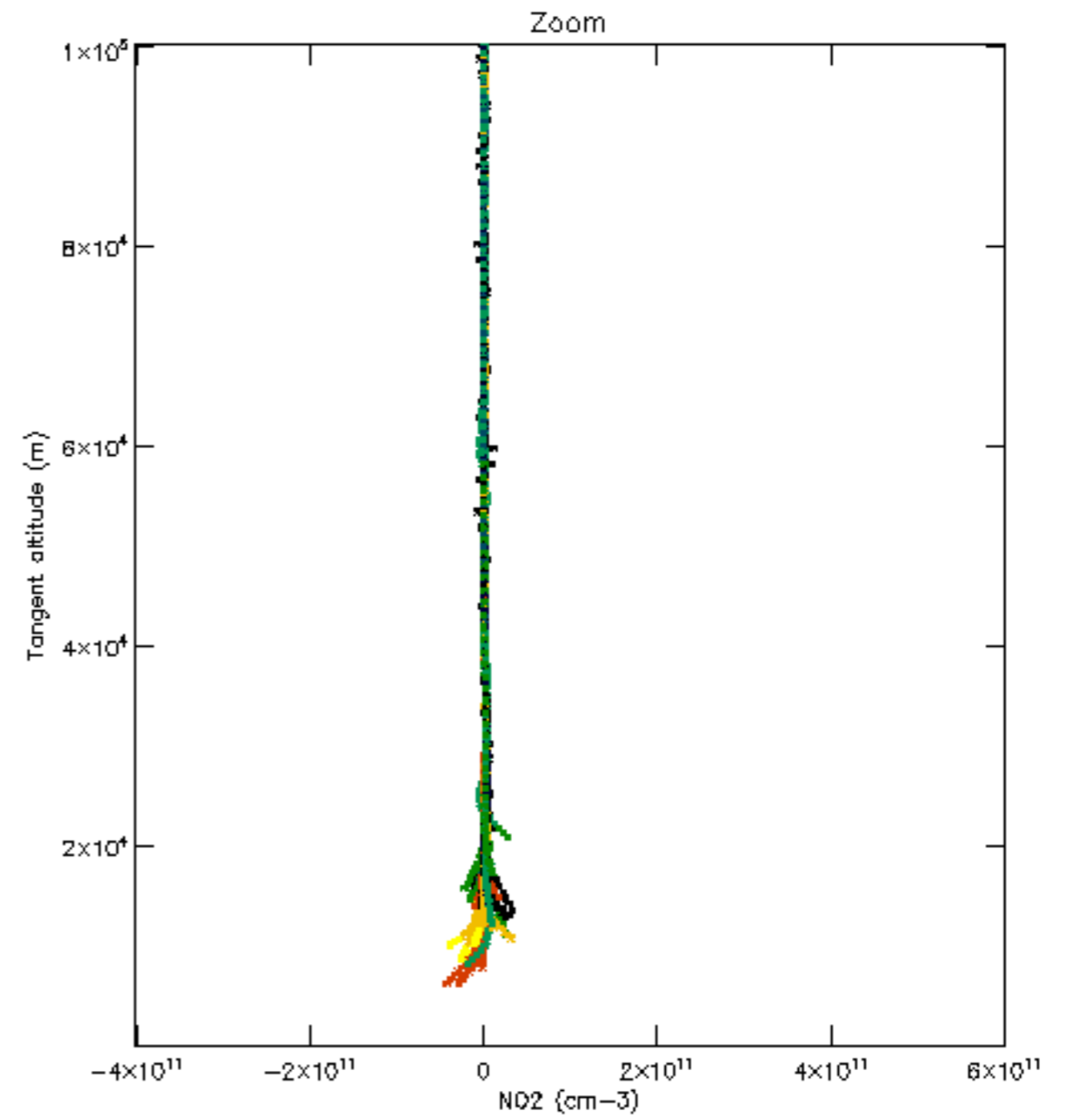
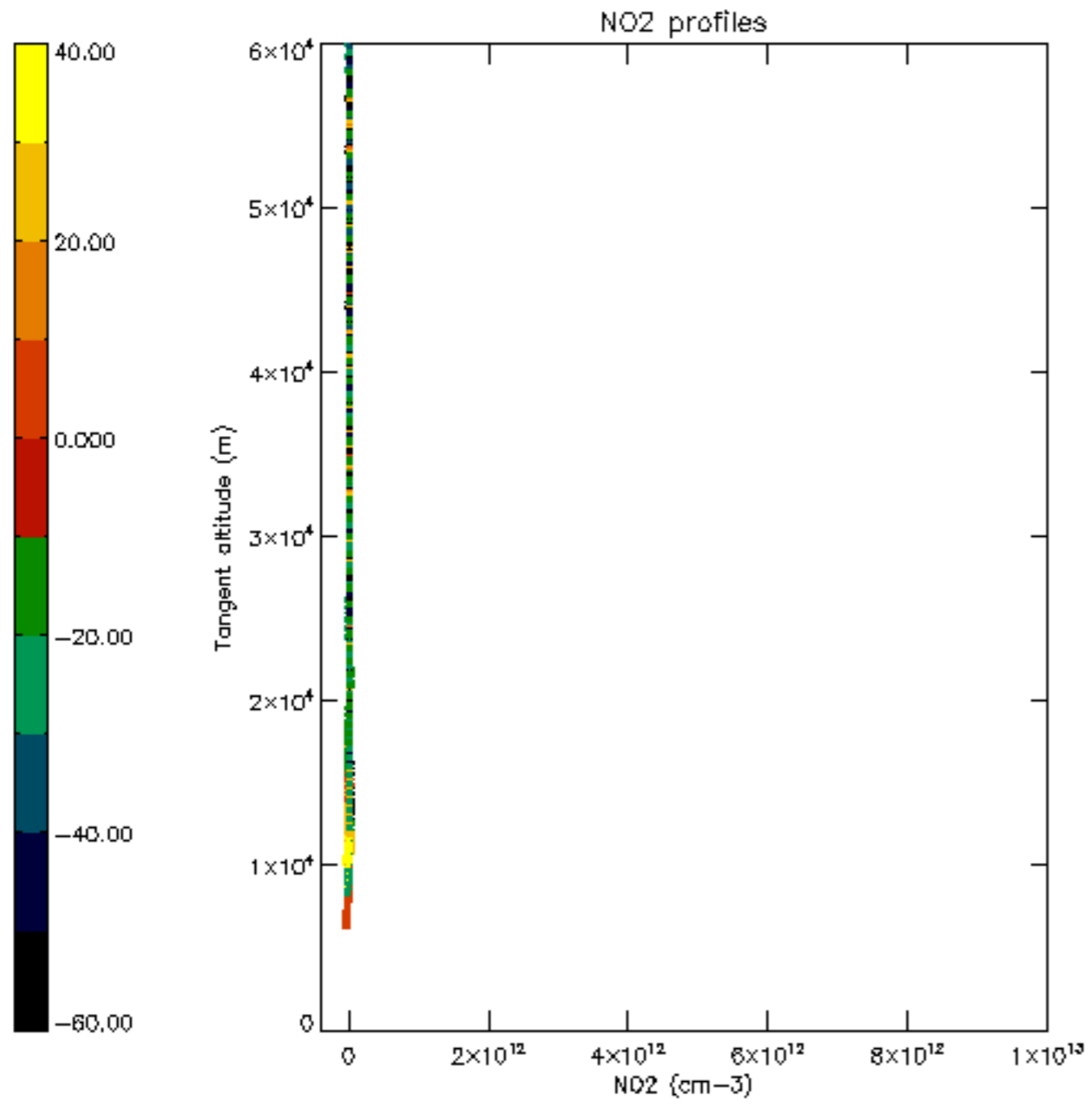


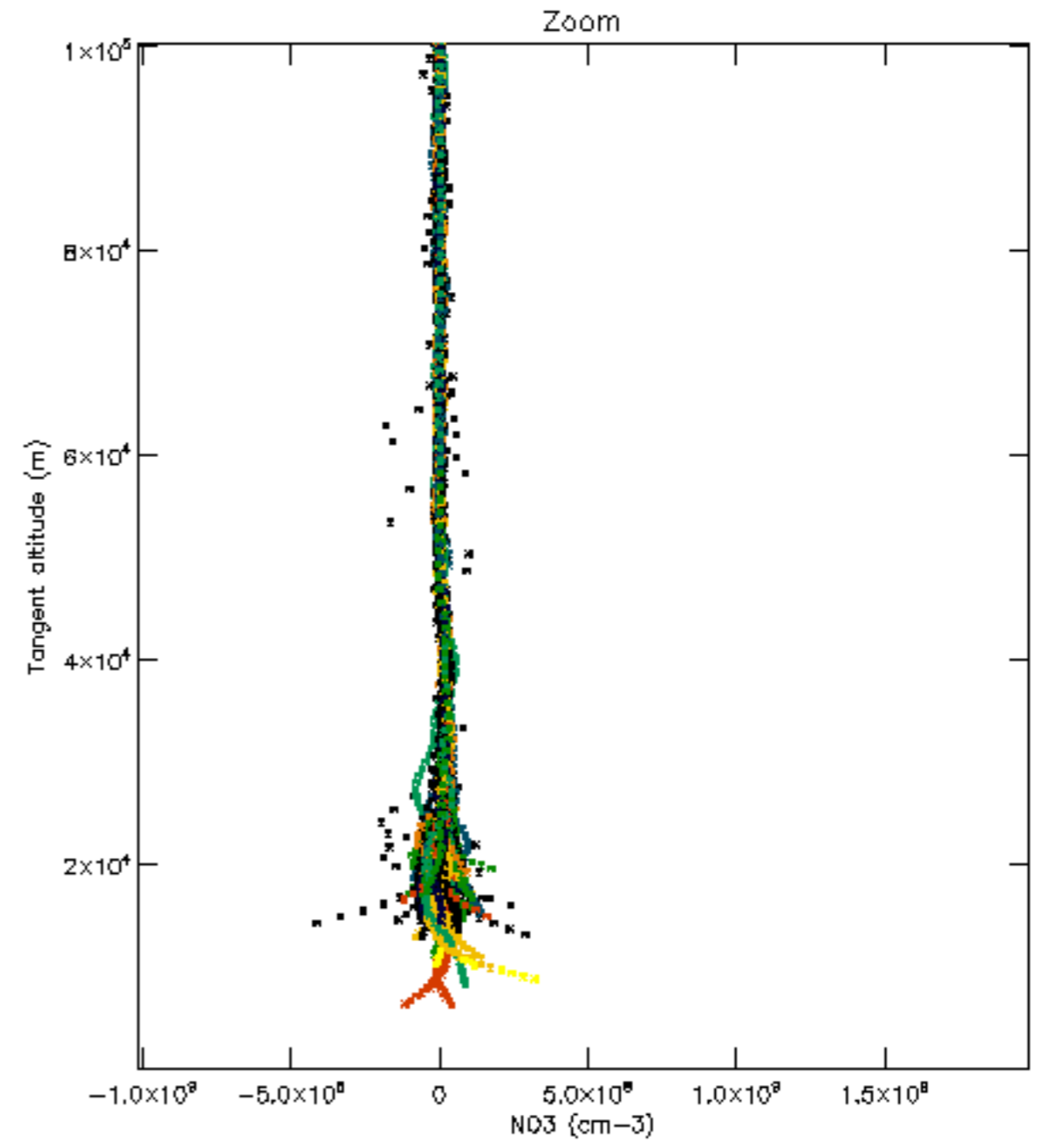
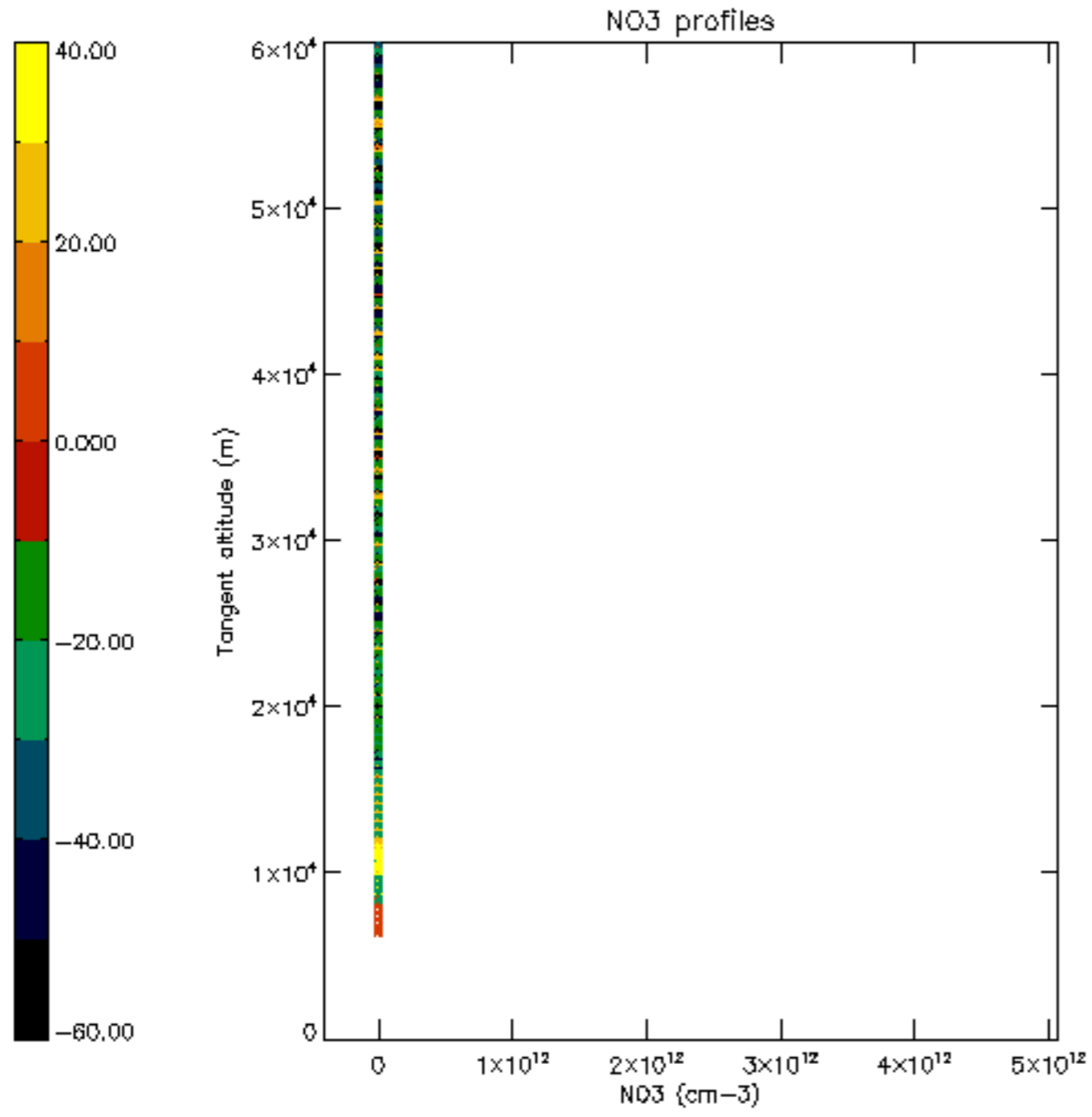


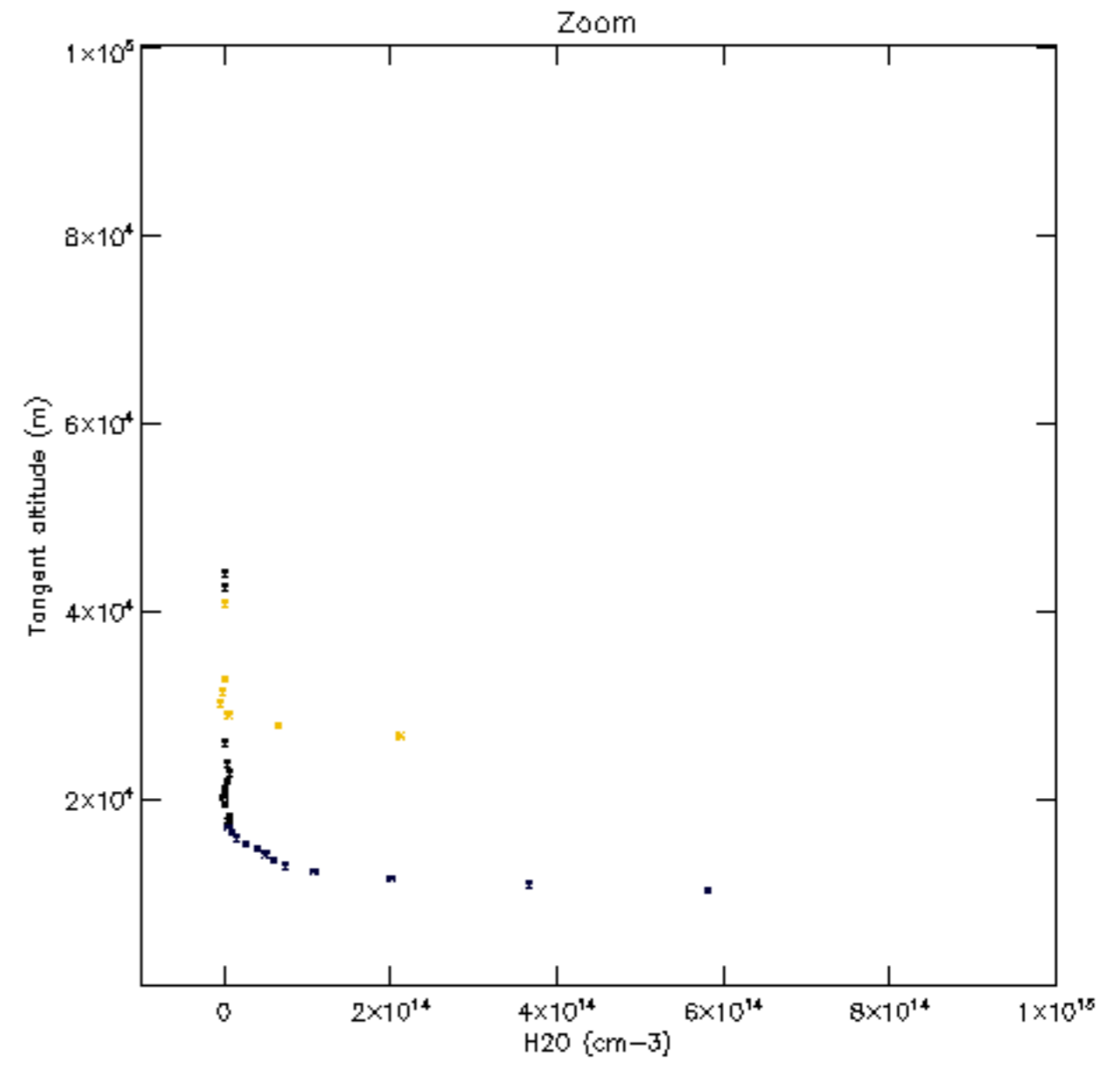
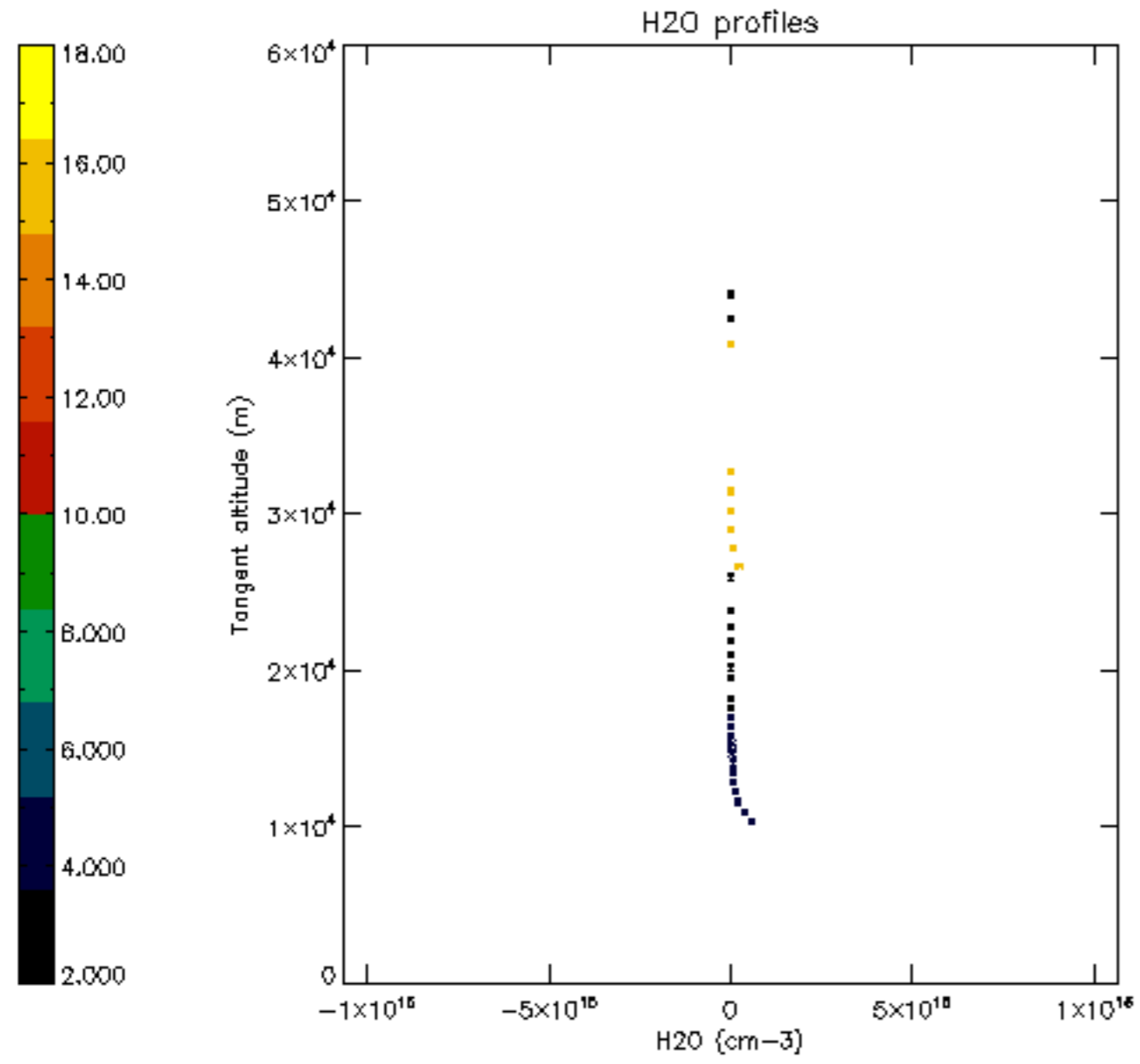


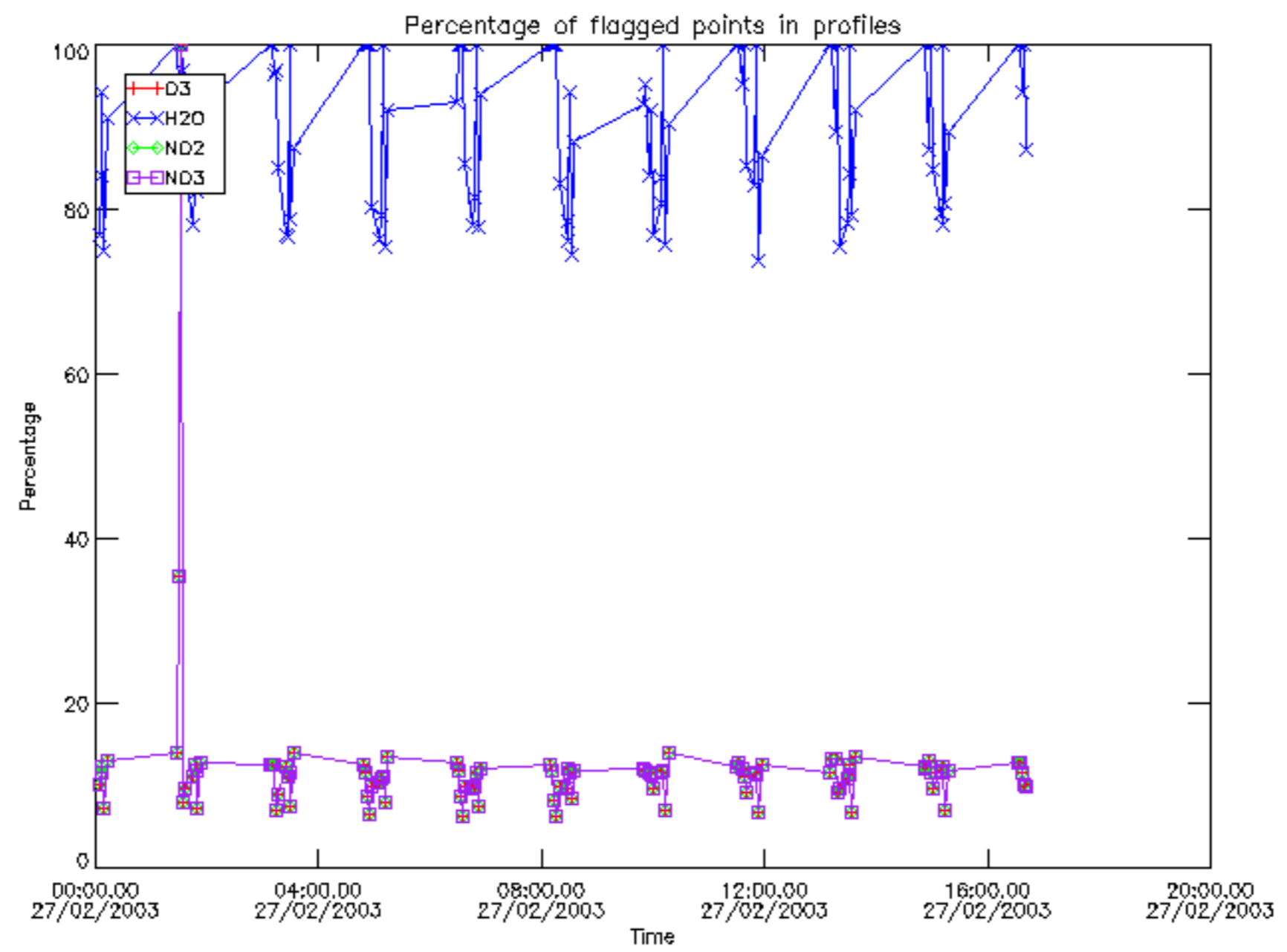




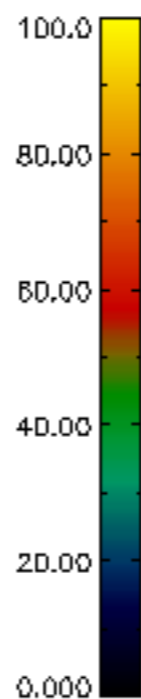
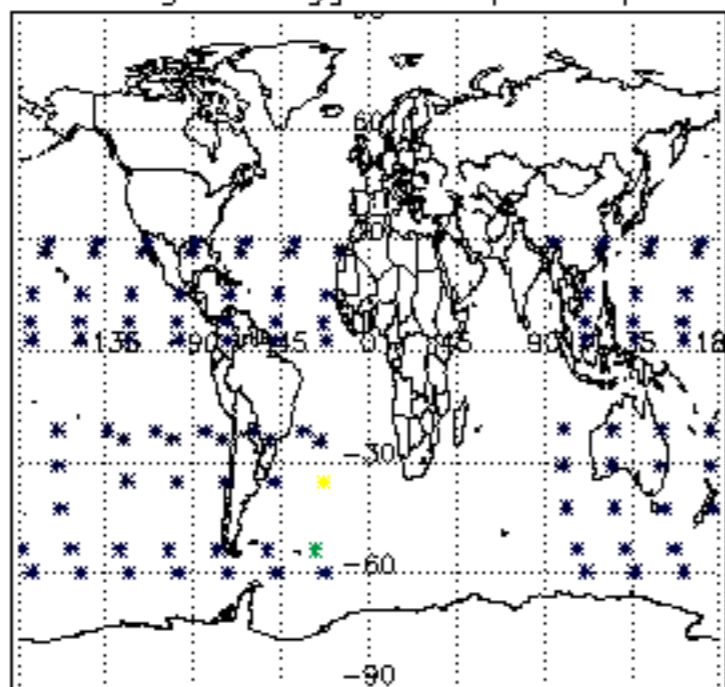




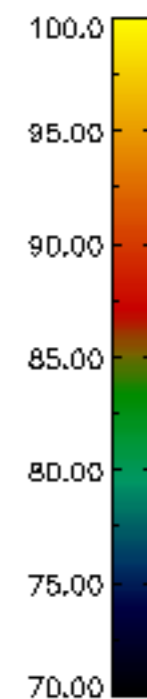
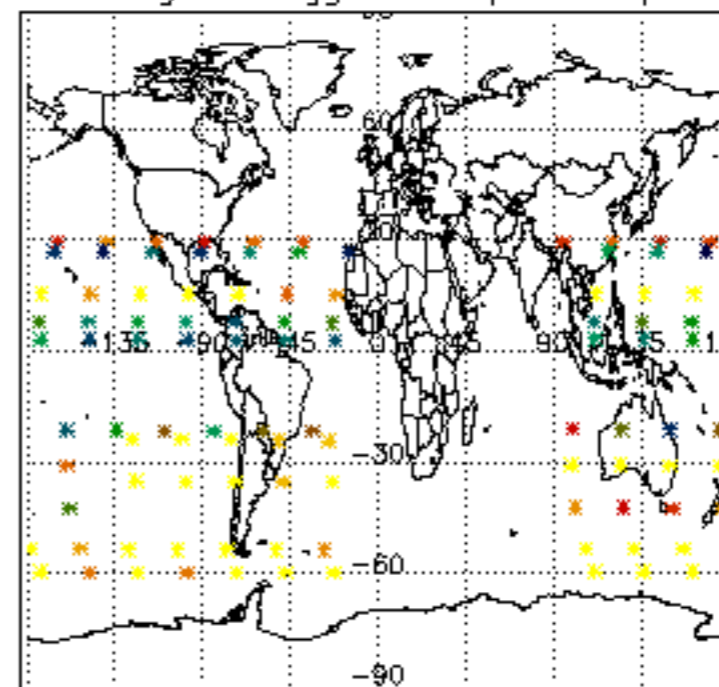




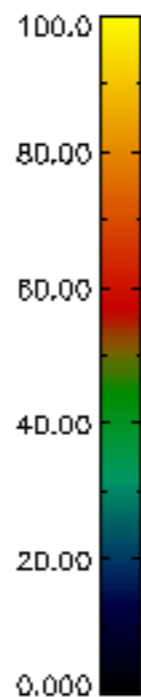
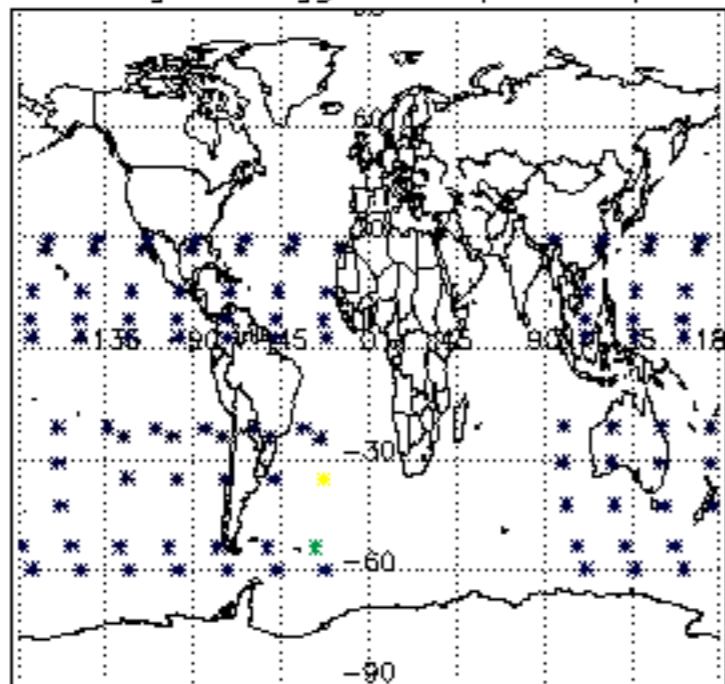
Percentage of flagged data per D3 profile



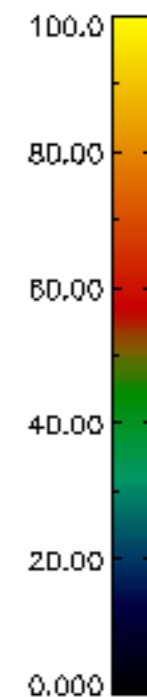
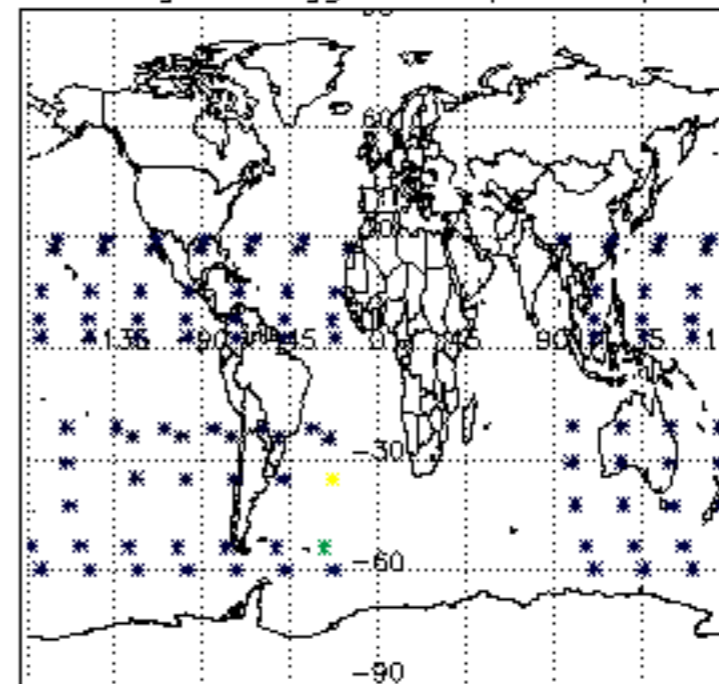
Percentage of flagged data per H2O profile

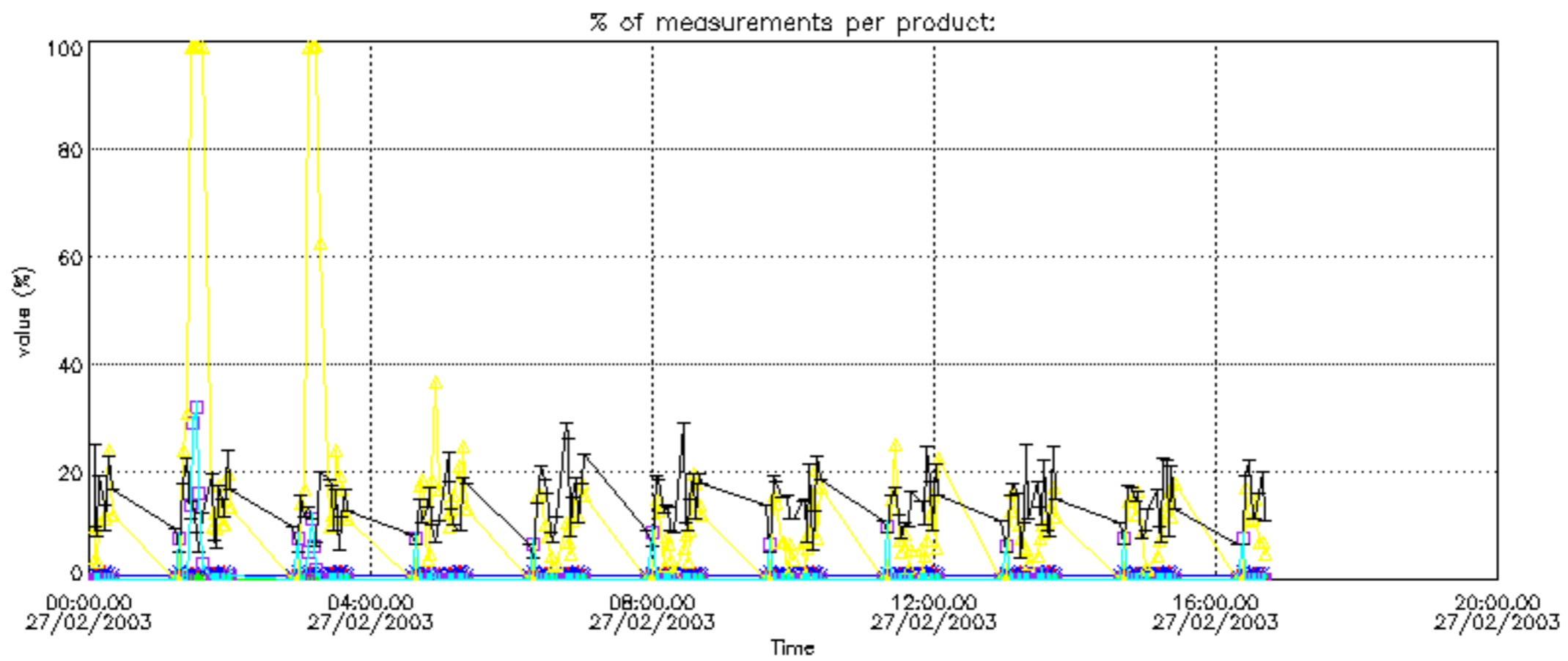
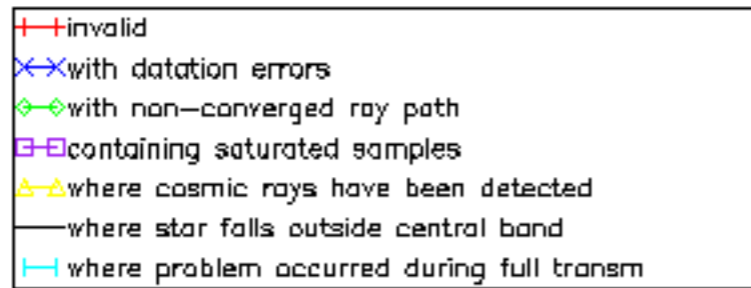


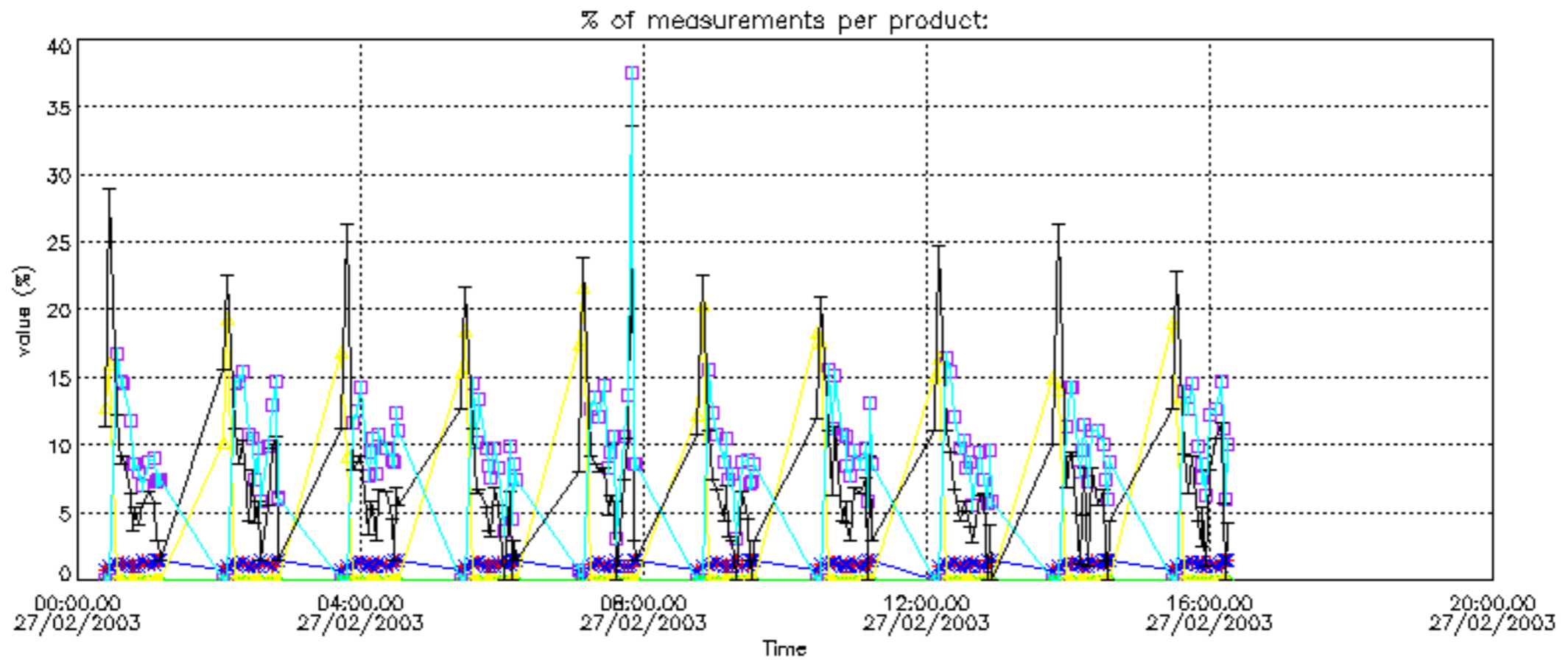
Percentage of flagged data per NO2 profile



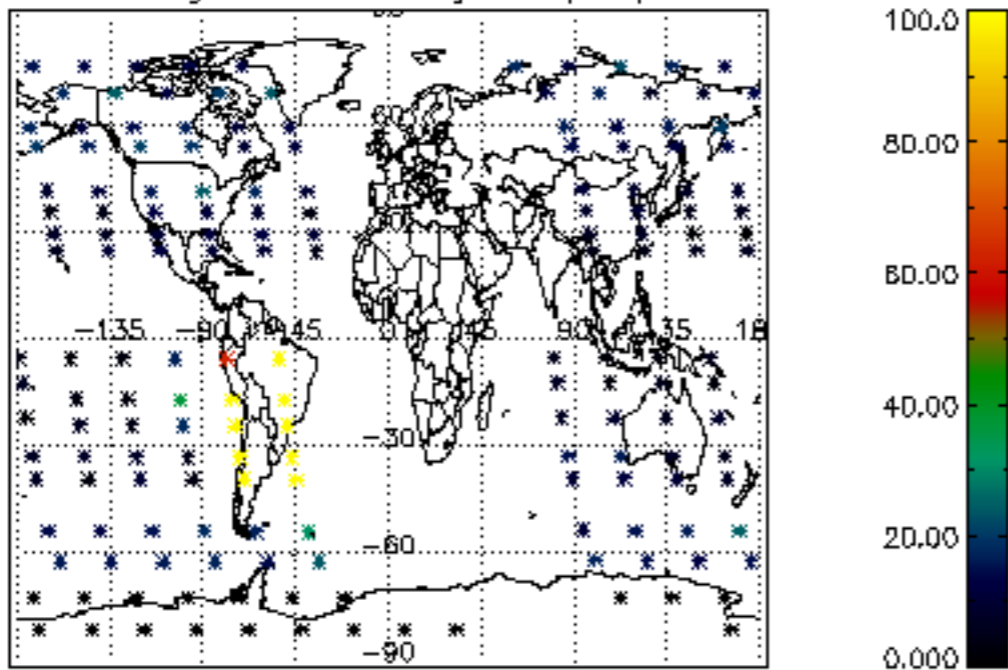
Percentage of flagged data per NO3 profile



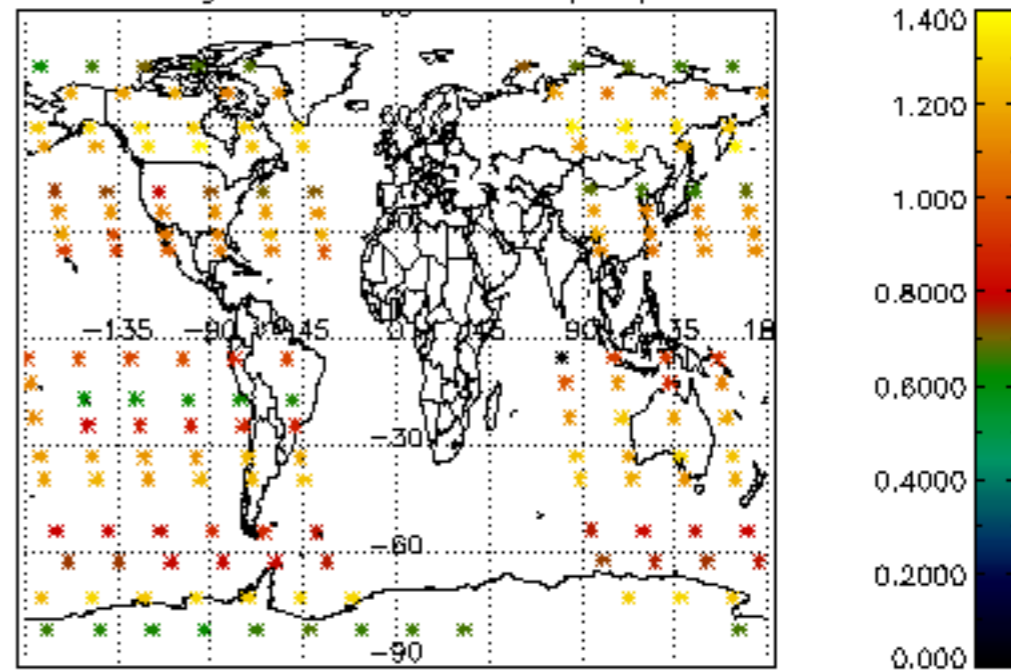




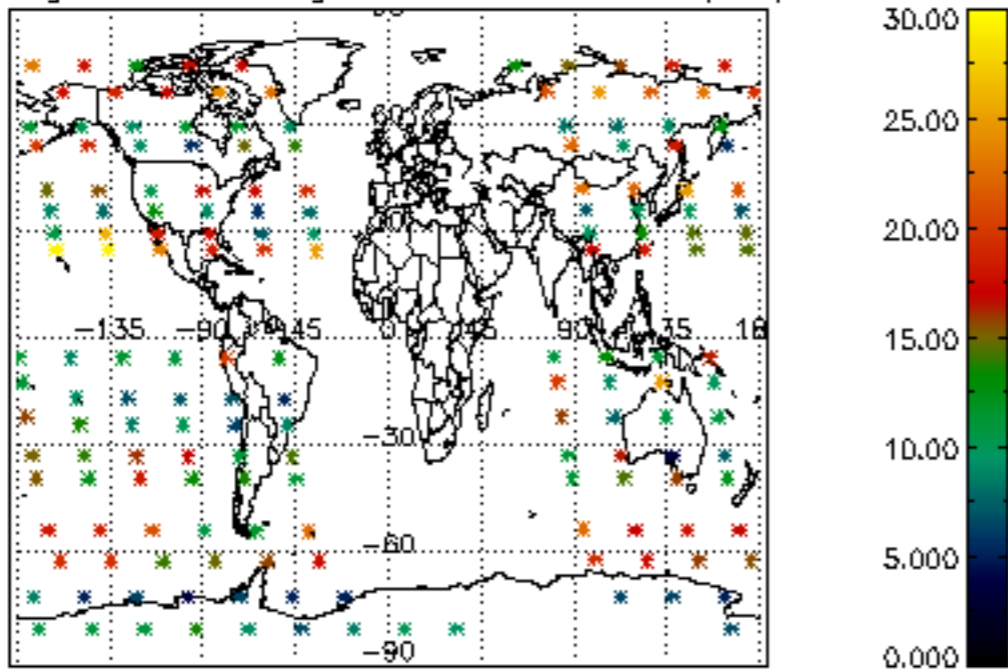
Percentage of cosmic ray hits per profile



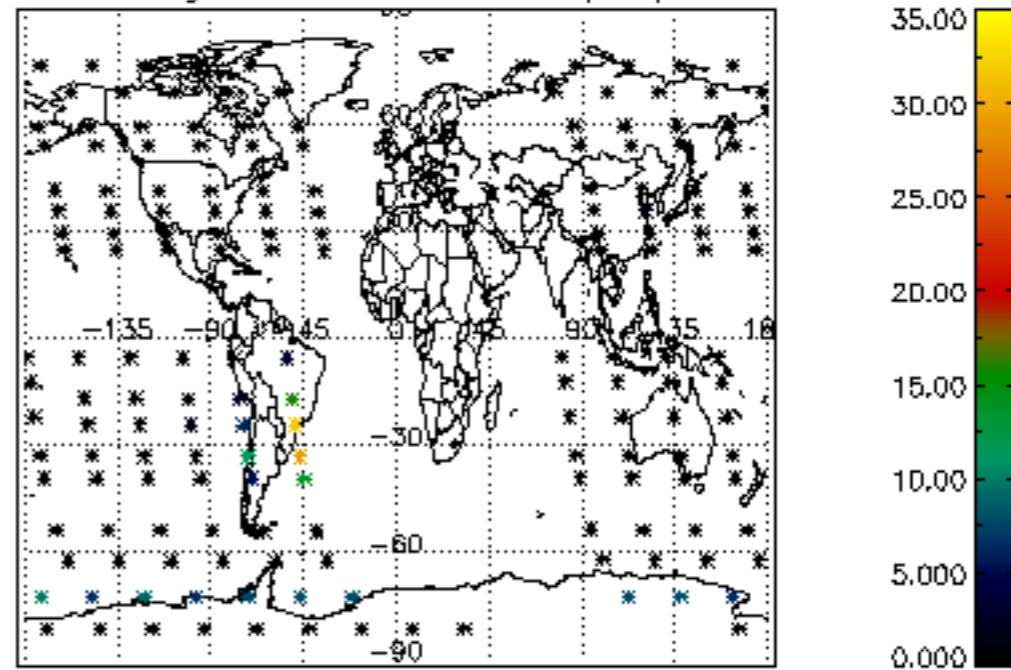
Percentage of datation errors per profile



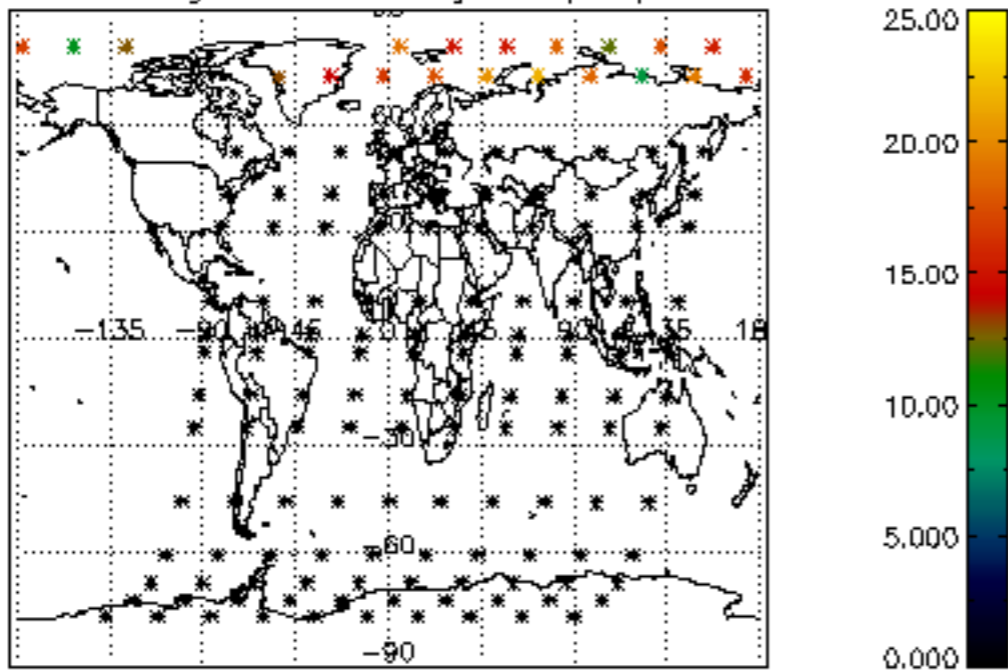
Percentage of star falling outside central band per profile



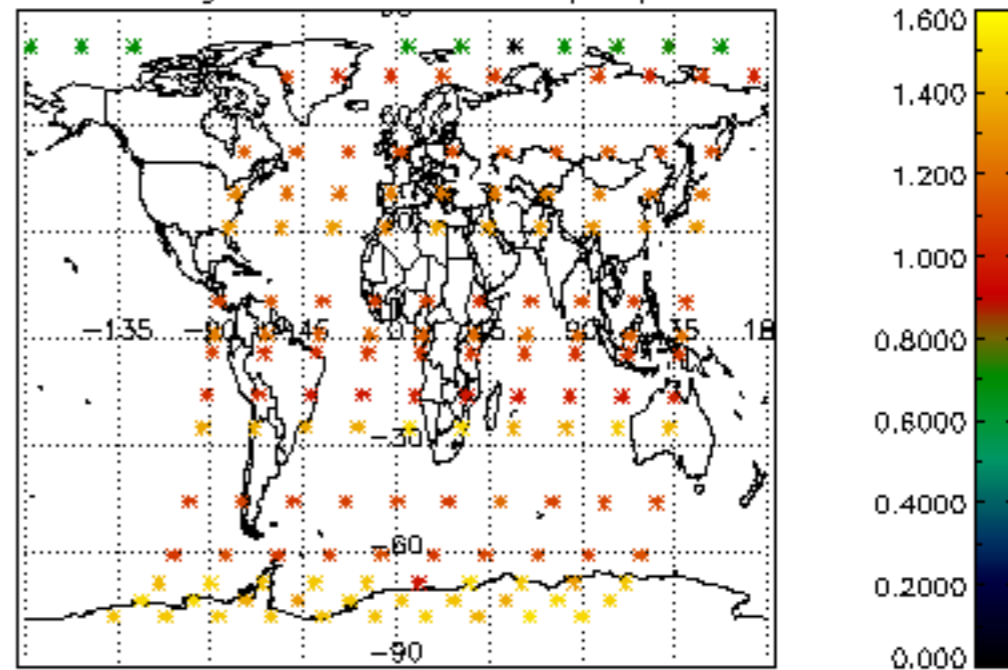
Percentage of saturation errors per profile



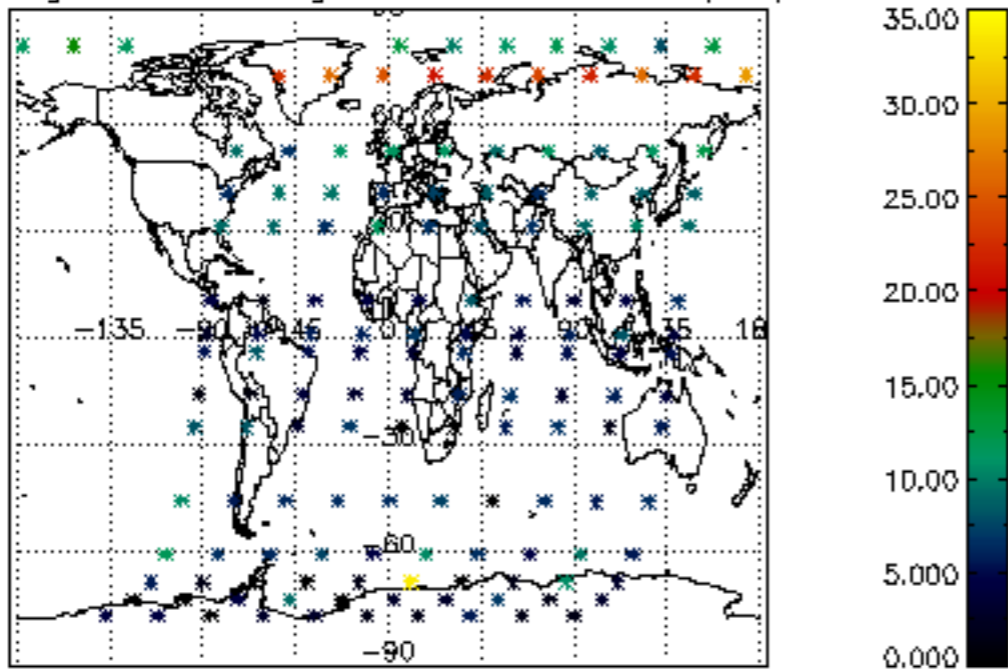
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

