

GOMOS Level 2 Daily Report

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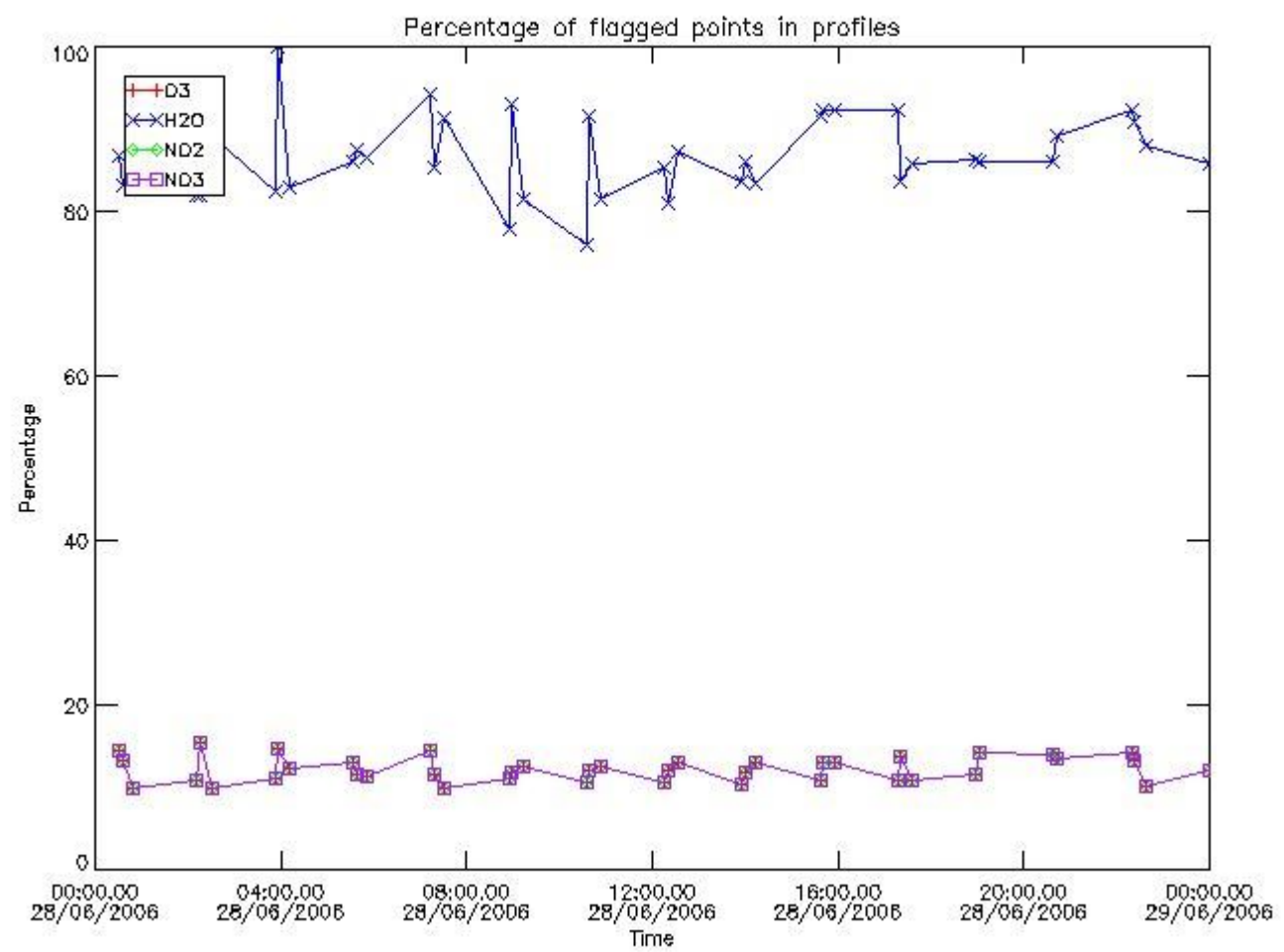
[6. Auxiliary Data Files used for the production reported in section 2](#)

279	GOM_NL__2PRFIN20060628_214321_000000372049_00029_22628_9726.N1	28-JUN-2006 21:43:21	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	22628	No
280	GOM_NL__2PRFIN20060628_214538_000000362049_00029_22628_9727.N1	28-JUN-2006 21:45:38	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	22628	No
281	GOM_NL__2PRFIN20060628_214933_000000332049_00029_22628_9728.N1	28-JUN-2006 21:49:33	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	22628	No
282	GOM_NL__2PRFIN20060628_215351_000000342049_00029_22628_9729.N1	28-JUN-2006 21:53:51	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	22628	No
283	GOM_NL__2PRFIN20060628_220410_000000392049_00029_22628_9730.N1	28-JUN-2006 22:04:10	Bright	38.500	160	23Gam Per	2.9300	4700.0	77	22628	No
284	GOM_NL__2PRFIN20060628_220550_000000332049_00029_22628_9731.N1	28-JUN-2006 22:05:50	Bright	33.000	175	39Del Per	3.0100	19400.	66	22628	No
285	GOM_NL__2PRFIN20060628_220759_000000372049_00029_22628_9732.N1	28-JUN-2006 22:07:59	Bright	37.000	79	26Bet Per	2.3100	13100.	74	22628	No
286	GOM_NL__2PRFIN20060628_221911_000000402049_00029_22628_9733.N1	28-JUN-2006 22:19:11	Dark	39.500	94	92Alp Cet	2.5260	3100.0	79	22628	No
287	GOM_NL__2PRFIN20060628_222258_000000382049_00029_22628_9734.N1	28-JUN-2006 22:22:58	Dark	38.000	165	34Gam Eri	2.9500	3200.0	76	22628	No
288	GOM_NL__2PRFIN20060628_223723_000000502049_00030_22629_9714.N1	28-JUN-2006 22:37:23	Dark	50.000	9	Alp Eri	0.45300	24000.	100	22629	No
289	GOM_NL__2PRFIN20060628_224446_000000422049_00030_22629_9715.N1	28-JUN-2006 22:44:46	Straylight	42.000	148	Alp Tuc	2.8780	4100.0	84	22629	No
290	GOM_NL__2PRFIN20060628_224911_000000422049_00030_22629_9716.N1	28-JUN-2006 22:49:11	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	22629	No
291	GOM_NL__2PRFIN20060628_225438_000000372049_00030_22629_9717.N1	28-JUN-2006 22:54:38	Straylight	37.000	147	Alp Ara	2.8770	26000.	74	22629	No
292	GOM_NL__2PRFIN20060628_225626_000000432049_00030_22629_9718.N1	28-JUN-2006 22:56:26	Tw_i_and_stray	42.500	40	The Sco	1.8590	7100.0	85	22629	No
293	GOM_NL__2PRFIN20060628_225806_000000412049_00030_22629_9719.N1	28-JUN-2006 22:58:06	Tw_i_and_stray	40.500	25	35Lam Sco	1.6200	28000.	81	22629	No
294	GOM_NL__2PRFIN20060628_225930_000000472049_00030_22629_9720.N1	28-JUN-2006 22:59:30	Bright	46.500	116	19Del Sgr	2.7000	4100.0	93	22629	No
295	GOM_NL__2PRFIN20060628_230420_000000362049_00030_22629_9721.N1	28-JUN-2006 23:04:20	Bright	35.500	86	35Eta Oph	2.4300	10200.	71	22629	No
296	GOM_NL__2PRFIN20060628_230605_000000362049_00030_22629_9722.N1	28-JUN-2006 23:06:05	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	22629	No
297	GOM_NL__2PRFIN20060628_231005_000000372049_00030_22629_9723.N1	28-JUN-2006 23:10:05	Bright	37.000	126	60Bet Oph	2.7700	4250.0	74	22629	No
298	GOM_NL__2PRFIN20060628_231226_000000372049_00030_22629_9724.N1	28-JUN-2006 23:12:26	Bright	36.500	59	55Alp Oph	2.0800	8900.0	73	22629	No
299	GOM_NL__2PRFIN20060628_231502_000000362049_00030_22629_9725.N1	28-JUN-2006 23:15:02	Bright	36.000	127	27Bet Her	2.7810	4700.0	72	22629	No
300	GOM_NL__2PRFIN20060628_231748_000000362049_00030_22629_9726.N1	28-JUN-2006 23:17:48	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	22629	No
301	GOM_NL__2PRFIN20060628_232356_000000392049_00030_22629_9727.N1	28-JUN-2006 23:23:56	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	22629	No
302	GOM_NL__2PRFIN20060628_232613_000000522049_00030_22629_9728.N1	28-JUN-2006 23:26:13	Bright	52.000	119	14Eta Dra	2.7270	4700.0	104	22629	No
303	GOM_NL__2PRFIN20060628_233009_000000362049_00030_22629_9729.N1	28-JUN-2006 23:30:09	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	22629	No
304	GOM_NL__2PRFIN20060628_233427_000000342049_00030_22629_9730.N1	28-JUN-2006 23:34:27	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	22629	No
305	GOM_NL__2PRFIN20060628_234446_000000372049_00030_22629_9731.N1	28-JUN-2006 23:44:46	Bright	37.000	160	23Gam Per	2.9300	4700.0	74	22629	No
306	GOM_NL__2PRFIN20060628_234626_000000492049_00030_22629_9732.N1	28-JUN-2006 23:46:26	Bright	48.500	175	39Del Per	3.0100	19400.	97	22629	No
307	GOM_NL__2PRFIN20060628_234835_000000372049_00030_22629_9733.N1	28-JUN-2006 23:48:35	Bright	37.000	79	26Bet Per	2.3100	13100.	74	22629	No
308	GOM_NL__2PRFIN20060628_235947_000000432049_00030_22629_9734.N1	28-JUN-2006 23:59:47	Dark	42.500	94	92Alp Cet	2.5260	3100.0	85	22629	No

3. Quality information per product

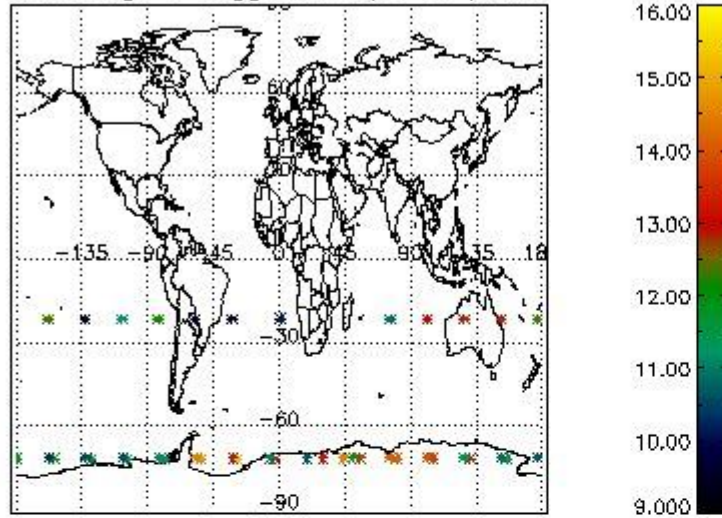
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

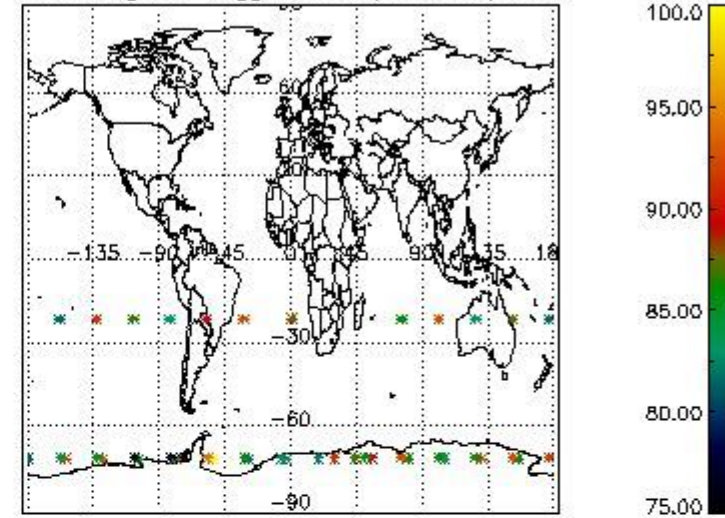


3.2 Plot quality information per product (world map)

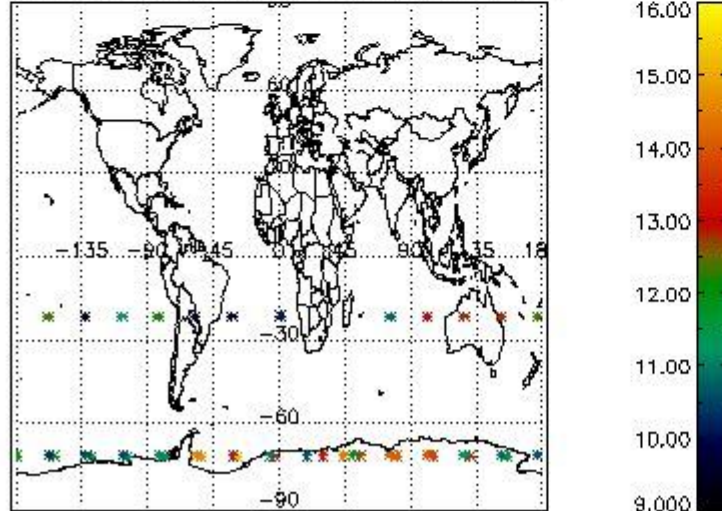
Percentage of flagged data per O3 profile



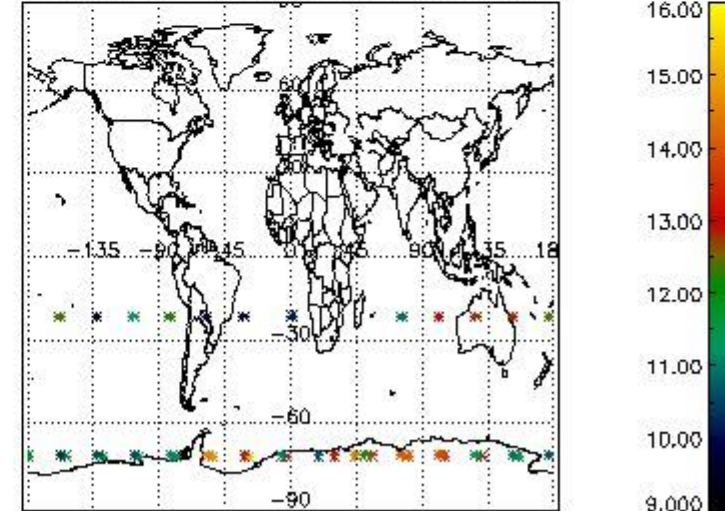
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

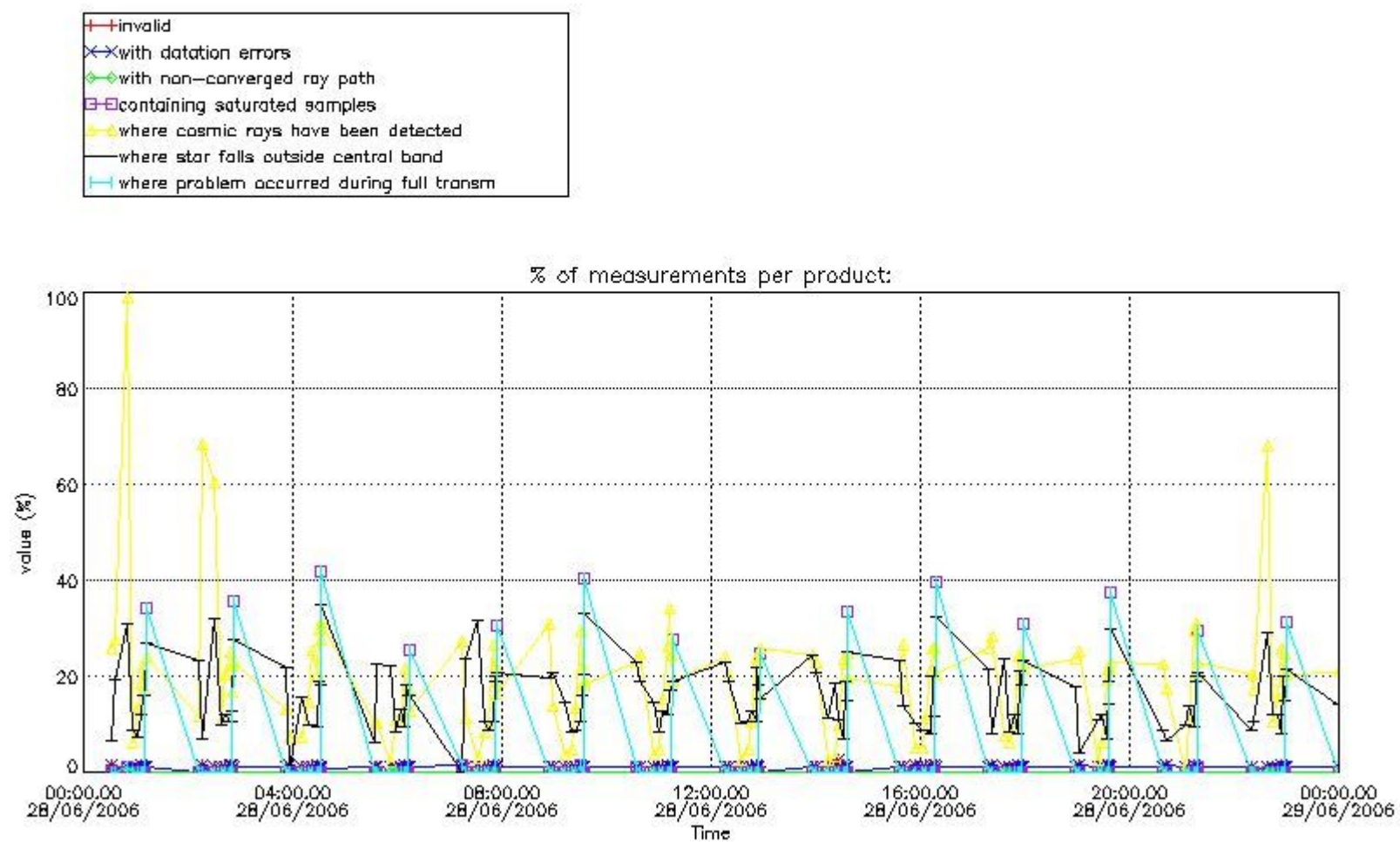


4. Level 1 quality information per product

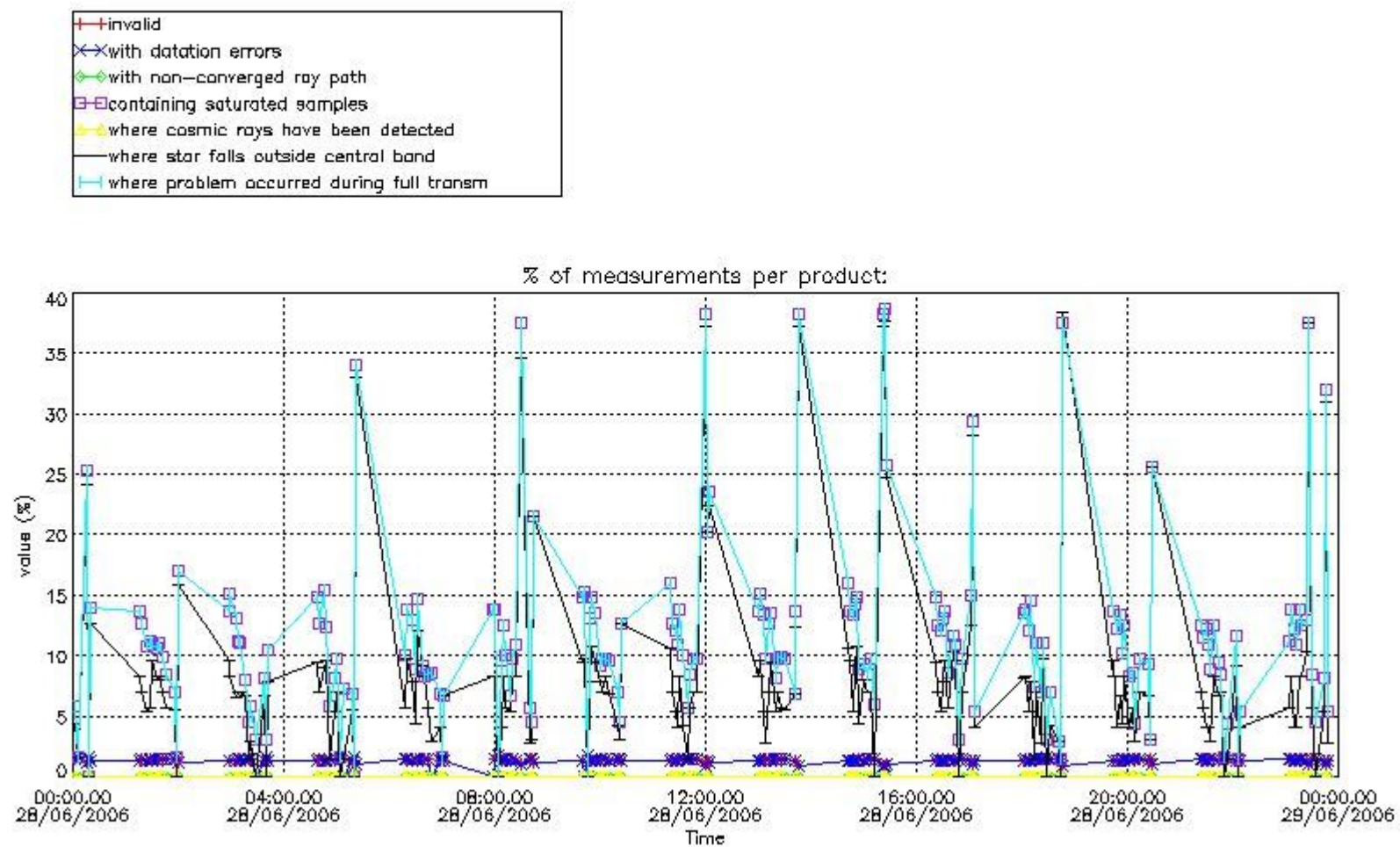
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



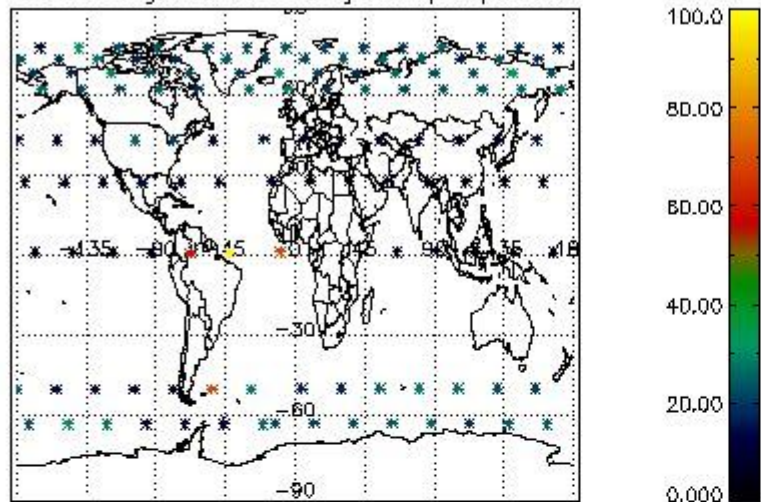
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



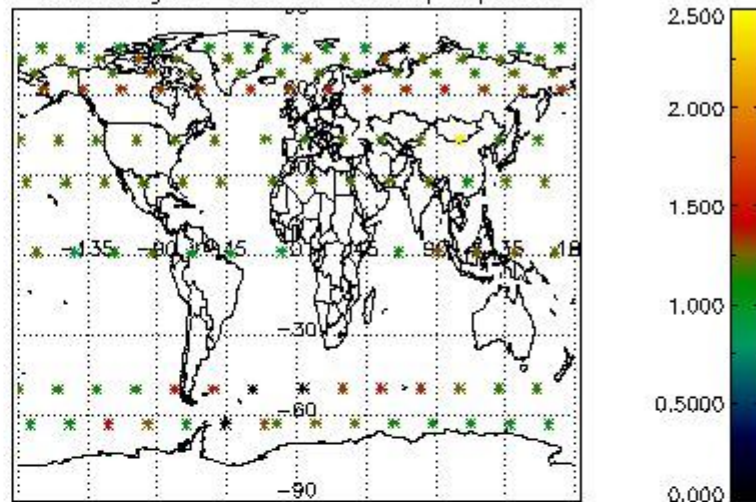
4.2 Plot quality information per product coming from level 1b processing (world map)

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

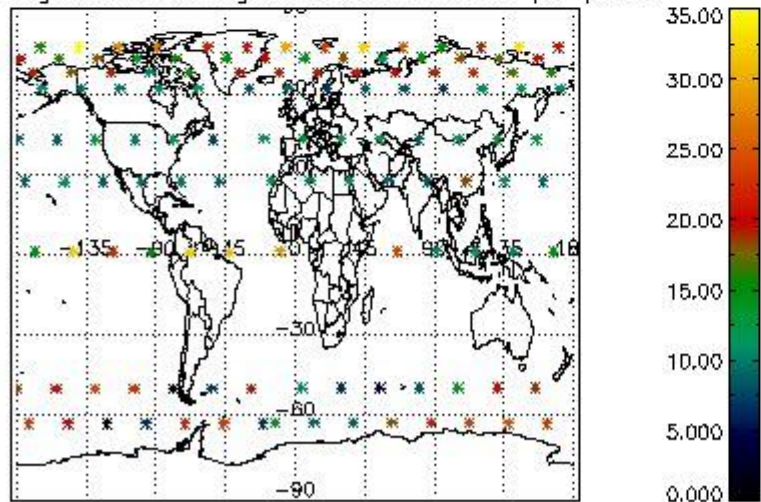
Percentage of cosmic ray hits per profile



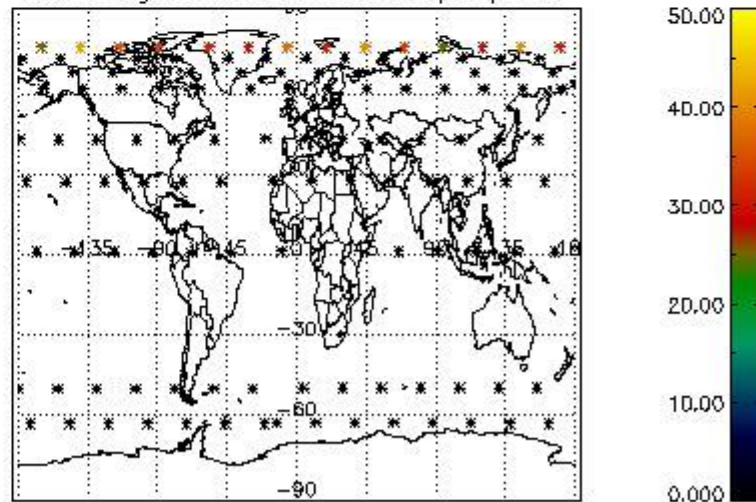
Percentage of datation errors per profile



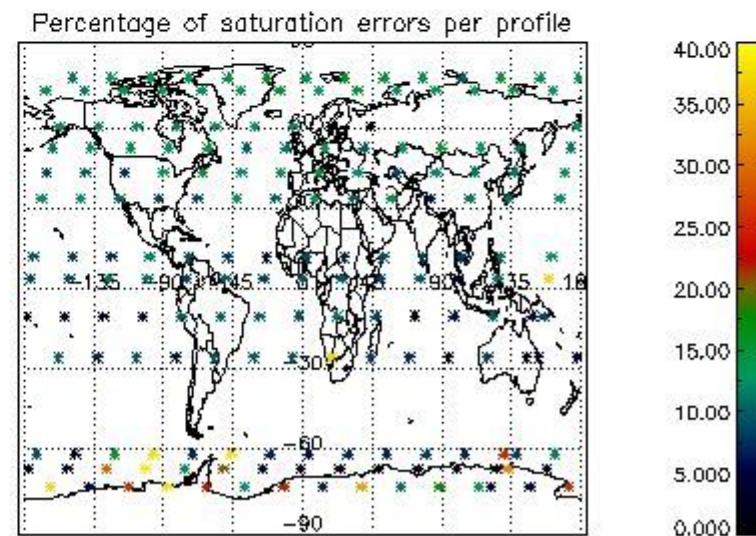
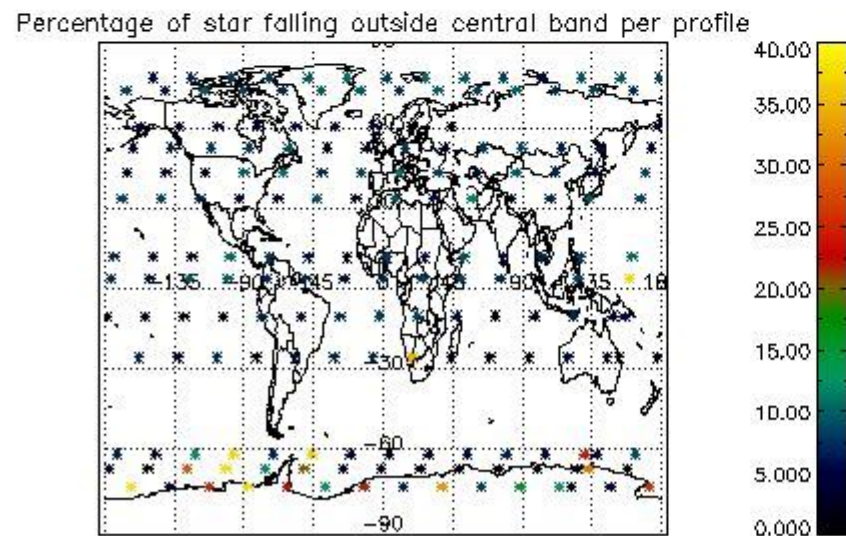
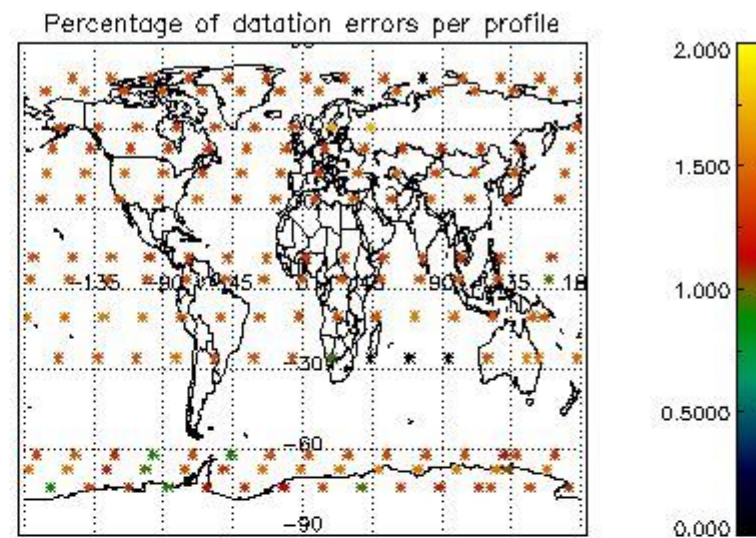
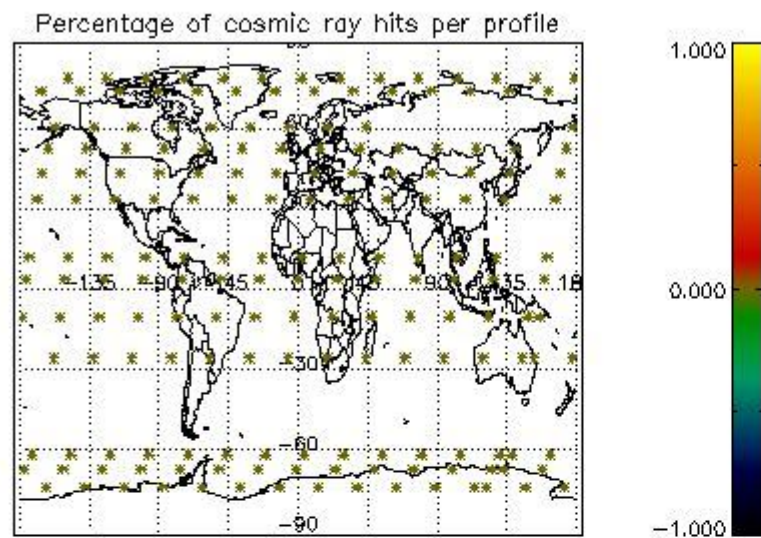
Percentage of star falling outside central band per profile



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

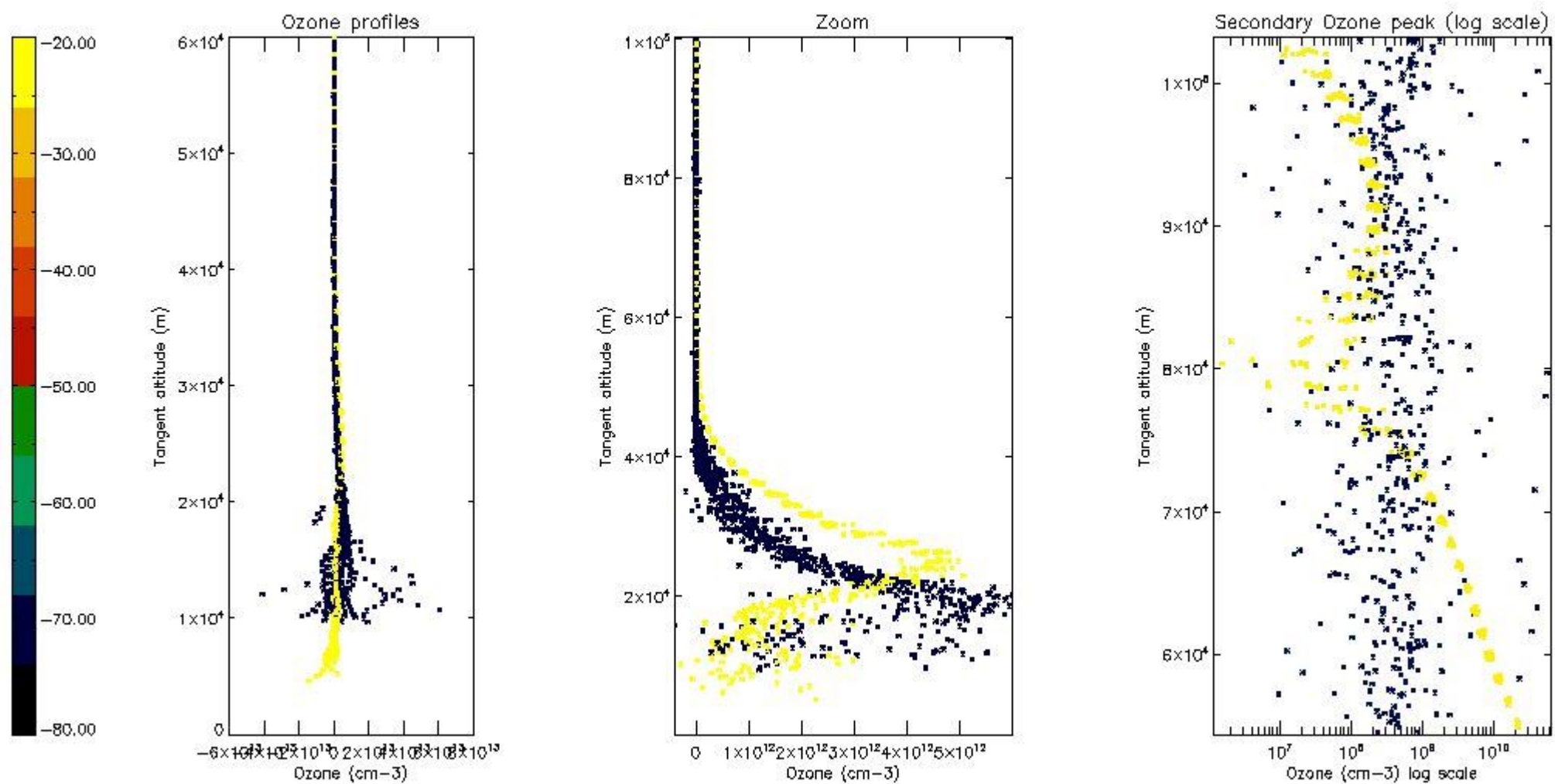
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	15
STD < 20	5

STD < 10	3
STD < 5	2

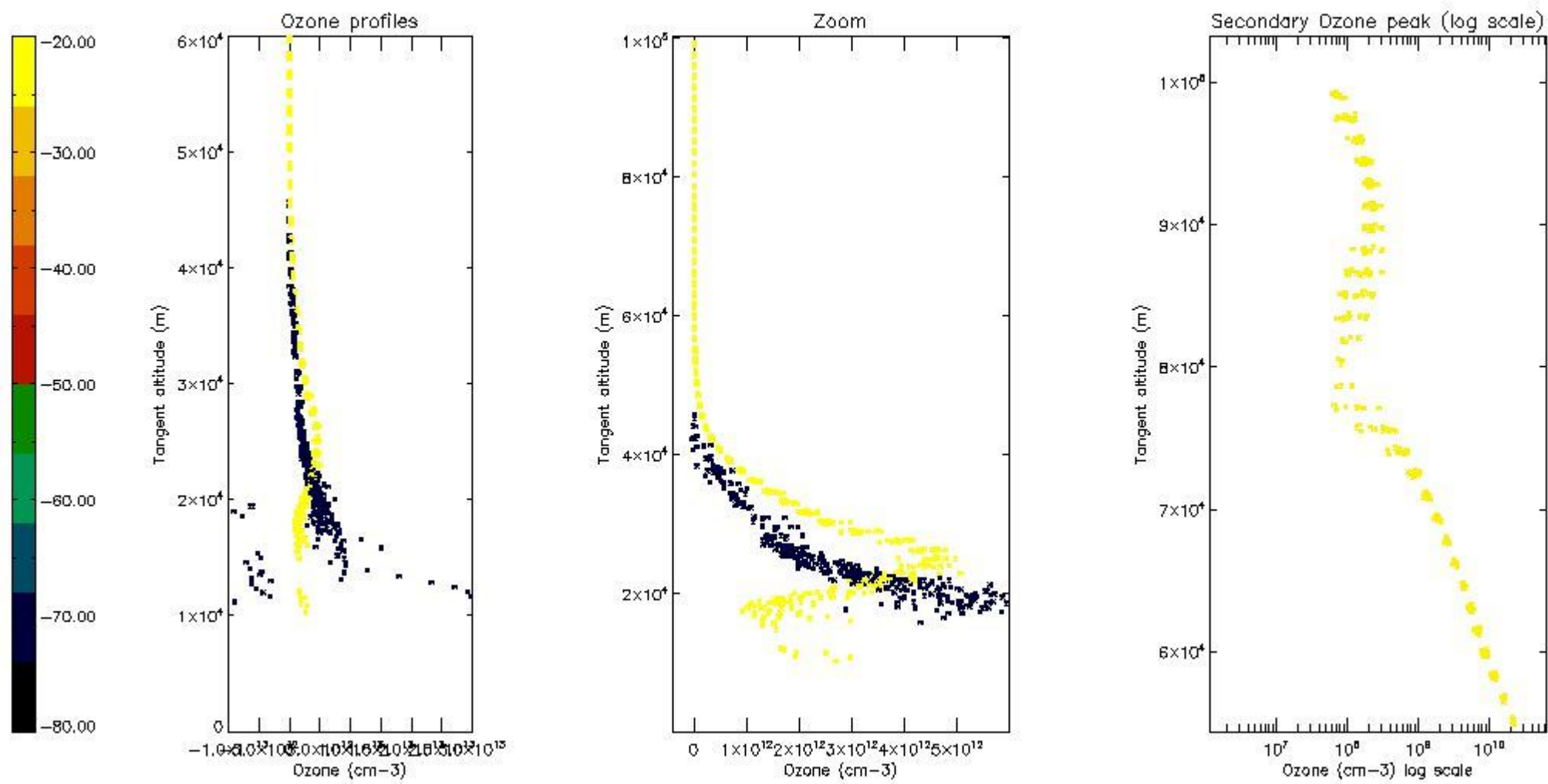
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



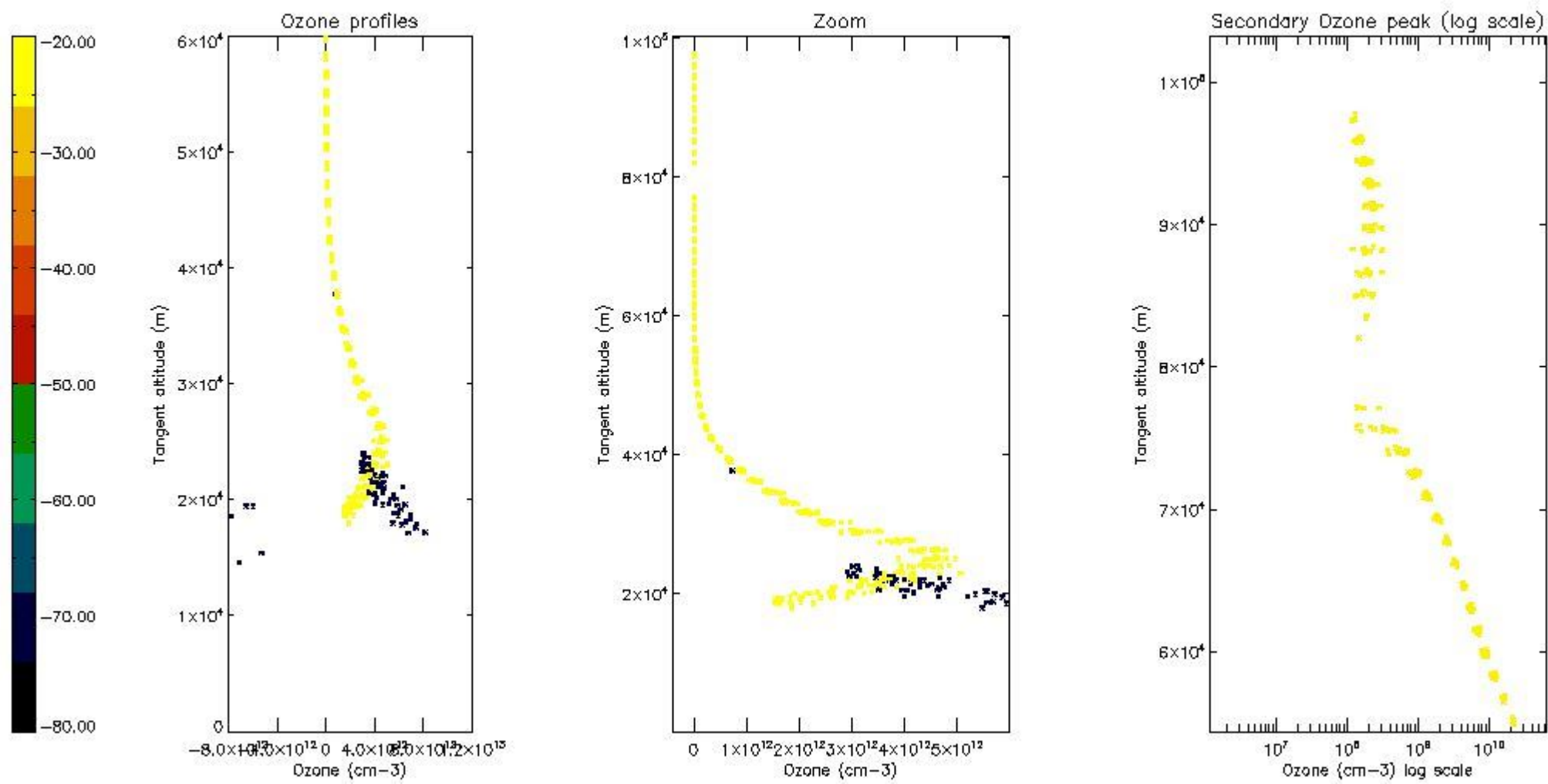
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



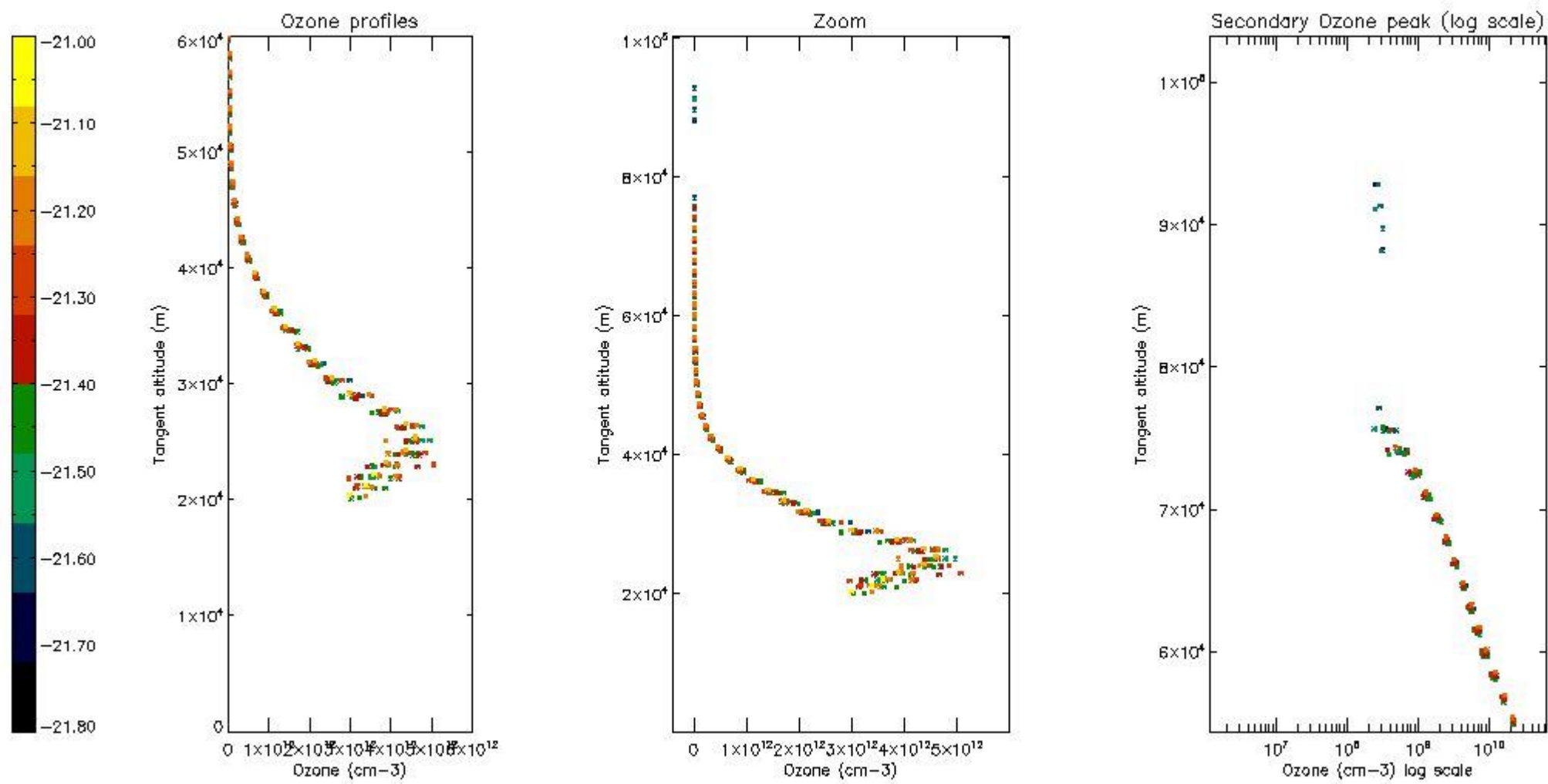
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



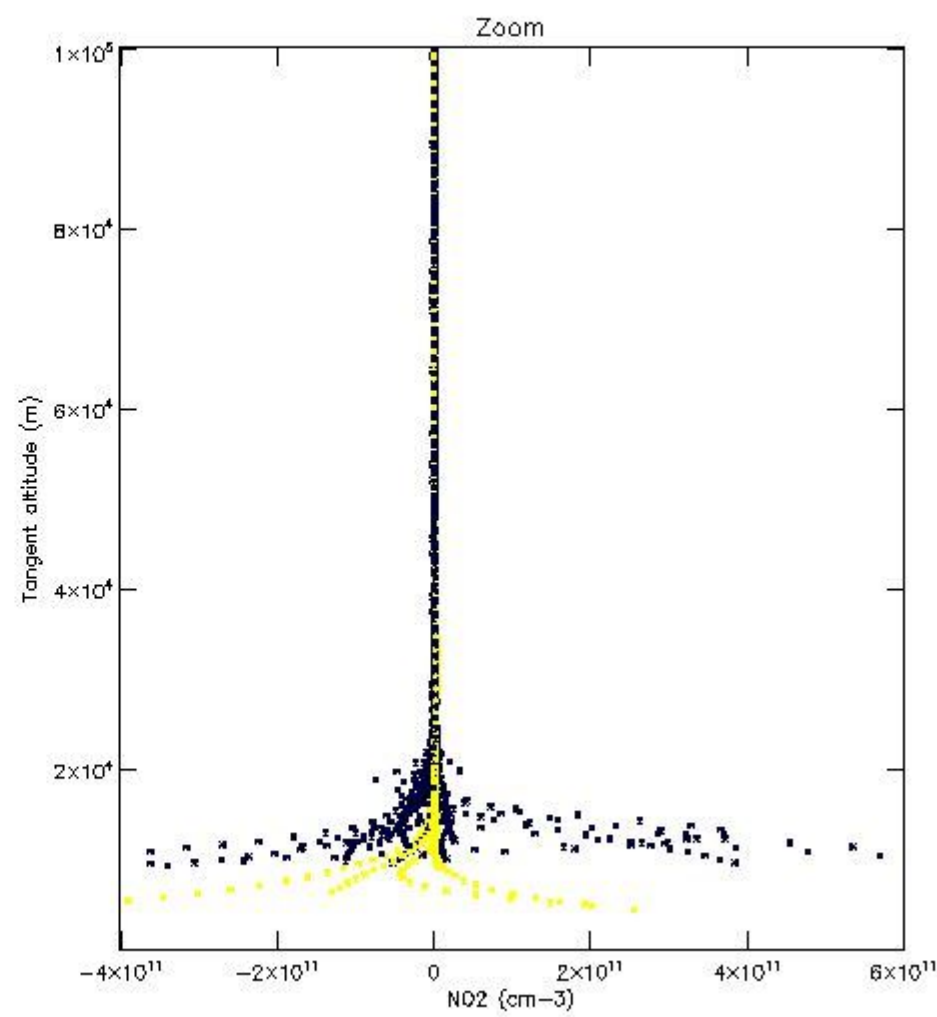
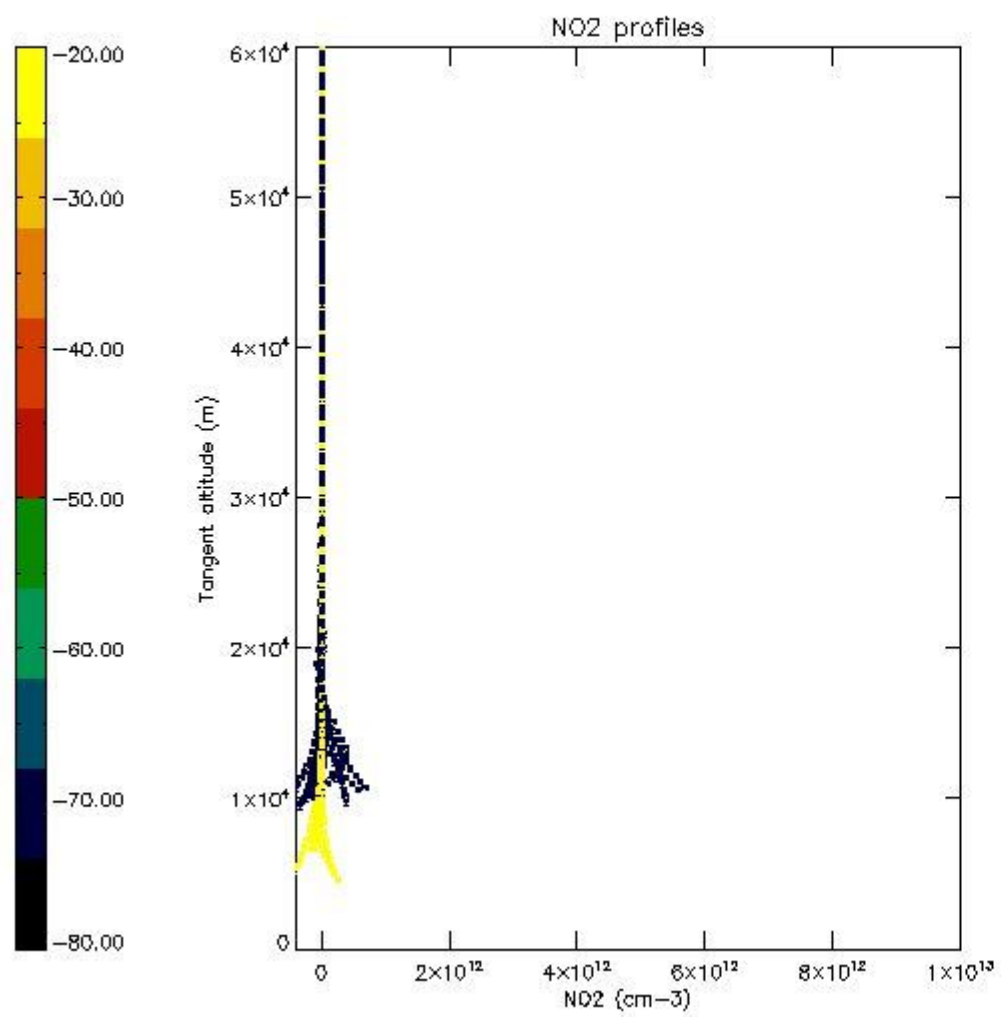
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



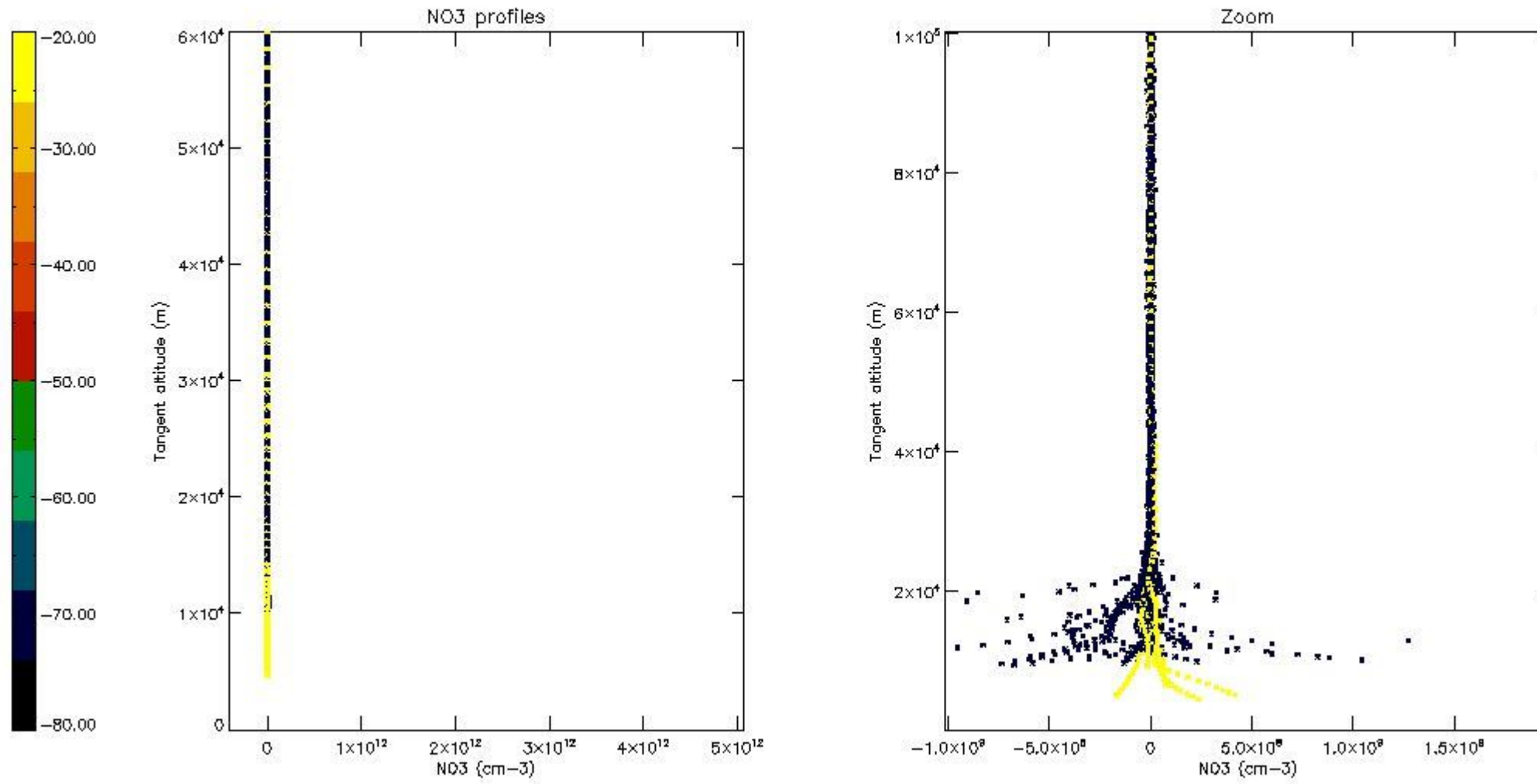
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	28-JUN-2006 00:01:44
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	28-JUN-2006 00:01:44
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	28-JUN-2006 00:01:44

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[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](#)

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

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

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

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

Item	Value
Time of report generation	24APR2013 00:42:54
Data source version	GOMOS/6.01
Start time of products	28-06-2006 (28JUN2006 00:00:00)
Stop time of products	29-06-2006 (29JUN2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	308
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

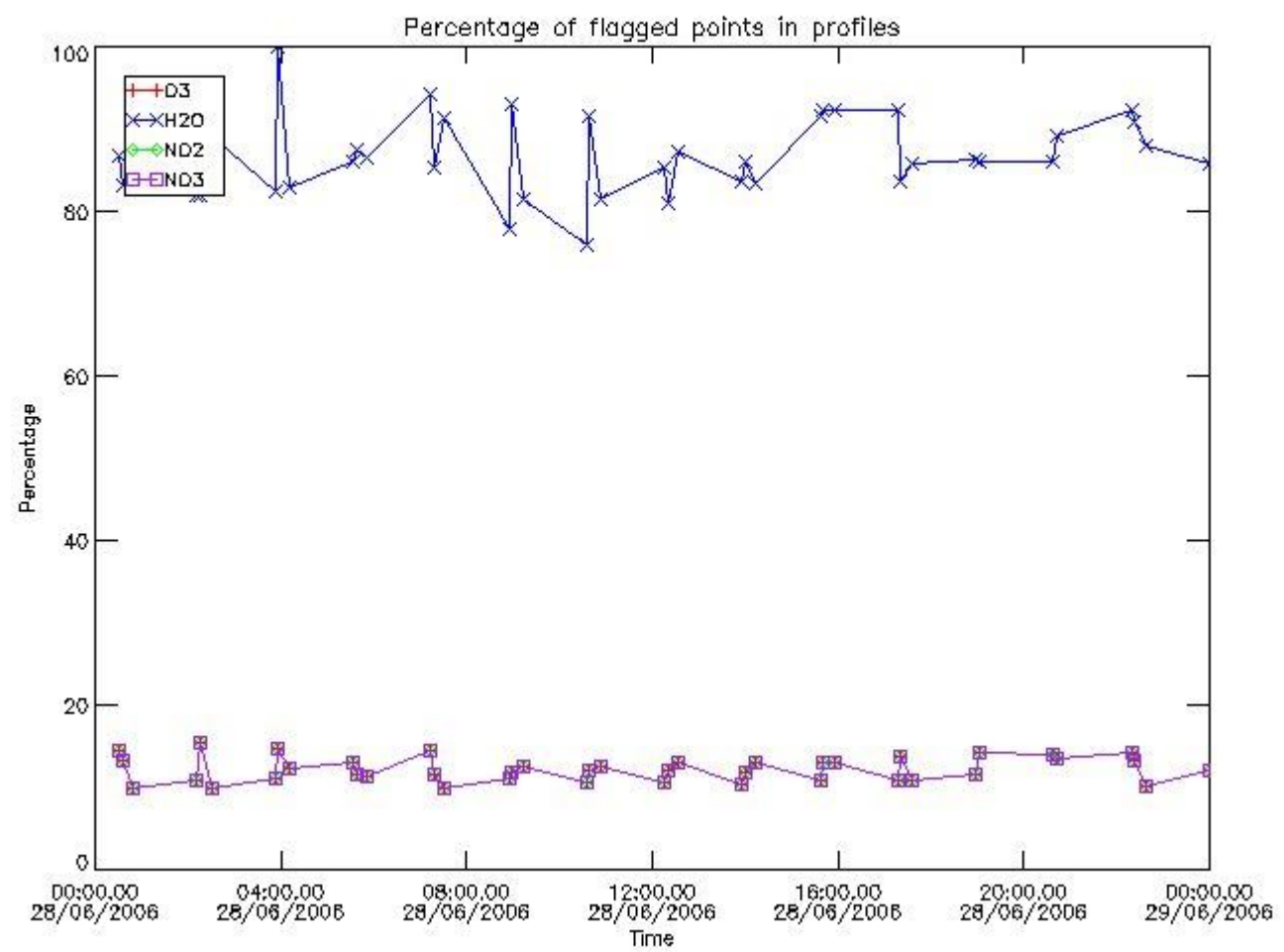
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060628_000144_000000352049_00016_22615_9516.N1	28-JUN-2006 00:01:44	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	22615	No
2	GOM_NL__2PRFIN20060628_000604_000000322049_00016_22615_9517.N1	28-JUN-2006 00:06:04	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	22615	No
3	GOM_NL__2PRFIN20060628_001623_000000462049_00016_22615_9518.N1	28-JUN-2006 00:16:23	Bright	45.500	160	23Gam Per	2.9300	4700.0	91	22615	No
4	GOM_NL__2PRFIN20060628_001802_000000332049_00016_22615_9519.N1	28-JUN-2006 00:18:02	Bright	32.500	175	39Del Per	3.0100	19400.	65	22615	No
5	GOM_NL__2PRFIN20060628_002012_000000402049_00016_22615_9520.N1	28-JUN-2006 00:20:12	Bright	39.500	79	26Bet Per	2.3100	13100.	79	22615	No
6	GOM_NL__2PRFIN20060628_003119_000000392049_00016_22615_9521.N1	28-JUN-2006 00:31:19	Dark	38.500	94	92Alp Cet	2.5260	3100.0	77	22615	No
7	GOM_NL__2PRFIN20060628_003508_000000422049_00016_22615_9522.N1	28-JUN-2006 00:35:08	Dark	41.500	165	34Gam Eri	2.9500	3200.0	83	22615	No
8	GOM_NL__2PRFIN20060628_004929_000000522049_00017_22616_9502.N1	28-JUN-2006 00:49:29	Dark	51.500	9	Alp Eri	0.45300	24000.	103	22616	No
9	GOM_NL__2PRFIN20060628_005651_000000412049_00017_22616_9503.N1	28-JUN-2006 00:56:51	Straylight	40.500	148	Alp Tuc	2.8780	4100.0	81	22616	No
10	GOM_NL__2PRFIN20060628_010117_000000412049_00017_22616_9504.N1	28-JUN-2006 01:01:17	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	22616	No
11	GOM_NL__2PRFIN20060628_010649_000000382049_00017_22616_9505.N1	28-JUN-2006 01:06:49	Straylight	38.000	147	Alp Ara	2.8770	26000.	76	22616	No
12	GOM_NL__2PRFIN20060628_010836_000000412049_00017_22616_9506.N1	28-JUN-2006 01:08:36	Twilight_stray	41.000	40	The Sco	1.8590	7100.0	82	22616	No
13	GOM_NL__2PRFIN20060628_011016_000000412049_00017_22616_9507.N1	28-JUN-2006 01:10:16	Twilight_stray	41.000	25	35Lam Sco	1.6200	28000.	82	22616	No
14	GOM_NL__2PRFIN20060628_011139_000000502049_00017_22616_9508.N1	28-JUN-2006 01:11:39	Bright	50.000	116	19Del Sgr	2.7000	4100.0	100	22616	No
15	GOM_NL__2PRFIN20060628_011631_000000372049_00017_22616_9509.N1	28-JUN-2006 01:16:31	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	22616	No
16	GOM_NL__2PRFIN20060628_011815_000000362049_00017_22616_9510.N1	28-JUN-2006 01:18:15	Bright	35.500	98	13Zet Oph	2.5710	30000.	71	22616	No
17	GOM_NL__2PRFIN20060628_012440_000000372049_00017_22616_9511.N1	28-JUN-2006 01:24:40	Bright	37.000	59	55Alp Oph	2.0800	8900.0	74	22616	No
18	GOM_NL__2PRFIN20060628_012713_000000362049_00017_22616_9512.N1	28-JUN-2006 01:27:13	Bright	35.500	127	27Bet Her	2.7810	4700.0	71	22616	No
19	GOM_NL__2PRFIN20060628_013001_000000372049_00017_22616_9513.N1	28-JUN-2006 01:30:01	Bright	36.500	133	40Zet Her	2.8070	6000.0	73	22616	No
20	GOM_NL__2PRFIN20060628_013612_000000382049_00017_22616_9514.N1	28-JUN-2006 01:36:12	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	22616	No
21	GOM_NL__2PRFIN20060628_013826_000000362049_00017_22616_9515.N1	28-JUN-2006 01:38:26	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	22616	No
22	GOM_NL__2PRFIN20060628_014220_000000362049_00017_22616_9516.N1	28-JUN-2006 01:42:20	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	22616	No
23	GOM_NL__2PRFIN20060628_014640_000000362049_00017_22616_9517.N1	28-JUN-2006 01:46:40	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	22616	No
24	GOM_NL__2PRFIN20060628_015659_000000362049_00017_22616_9518.N1	28-JUN-2006 01:56:59	Bright	36.000	160	23Gam Per	2.9300	4700.0	72	22616	No
25	GOM_NL__2PRFIN20060628_015838_000000332049_00017_22616_9519.N1	28-JUN-2006 01:58:38	Bright	32.500	175	39Del Per	3.0100	19400.	65	22616	No
26	GOM_NL__2PRFIN20060628_020047_000000412049_00017_22616_9520.N1	28-JUN-2006 02:00:47	Bright	41.000	79	26Bet Per	2.3100	13100.	82	22616	No
27	GOM_NL__2PRFIN20060628_021155_000000472049_00017_22616_9521.N1	28-JUN-2006 02:11:55	Dark	47.000	94	92Alp Cet	2.5260	3100.0	94	22616	No
28	GOM_NL__2PRFIN20060628_021544_000000372049_00017_22616_9522.N1	28-JUN-2006 02:15:44	Dark	36.500	165	34Gam Eri	2.9500	3200.0	73	22616	No
29	GOM_NL__2PRFIN20060628_023006_000000522049_00018_22617_9502.N1	28-JUN-2006 02:30:06	Dark	51.500	9	Alp Eri	0.45300	24000.	103	22617	No
30	GOM_NL__2PRFIN20060628_023727_000000412049_00018_22617_9503.N1	28-JUN-2006 02:37:27	Straylight	41.000	148	Alp Tuc	2.8780	4100.0	82	22617	No
31	GOM_NL__2PRFIN20060628_024154_000000422049_00018_22617_9504.N1	28-JUN-2006 02:41:54	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	22617	No
32	GOM_NL__2PRFIN20060628_024725_000000382049_00018_22617_9505.N1	28-JUN-2006 02:47:25	Straylight	38.000	147	Alp Ara	2.8770	26000.	76	22617	No
33	GOM_NL__2PRFIN20060628_024912_000000392049_00018_22617_9506.N1	28-JUN-2006 02:49:12	Twilight_stray	38.500	40	The Sco	1.8590	7100.0	77	22617	No
34	GOM_NL__2PRFIN20060628_025052_000000392049_00018_22617_9507.N1	28-JUN-2006 02:50:52	Twilight_stray	39.000	25	35Lam Sco	1.6200	28000.	78	22617	No
35	GOM_NL__2PRFIN20060628_025216_000000512049_00018_22617_9508.N1	28-JUN-2006 02:52:16	Bright	50.500	116	19Del Sgr	2.7000	4100.0	101	22617	No
36	GOM_NL__2PRFIN20060628_025707_000000372049_00018_22617_9509.N1	28-JUN-2006 02:57:07	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	22617	No
37	GOM_NL__2PRFIN20060628_025851_000000372049_00018_22617_9510.N1	28-JUN-2006 02:58:51	Bright	36.500	98	13Zet Oph	2.5710	30000.	73	22617	No
38	GOM_NL__2PRFIN20060628_030516_000000382049_00018_22617_9511.N1	28-JUN-2006 03:05:16	Bright	38.000	59	55Alp Oph	2.0800	8900.0	76	22617	No
39	GOM_NL__2PRFIN20060628_030749_000000362049_00018_22617_9512.N1	28-JUN-2006 03:07:49	Bright	35.500	127	27Bet Her	2.7810	4700.0	71	22617	No
40	GOM_NL__2PRFIN20060628_031037_000000362049_00018_22617_9513.N1	28-JUN-2006 03:10:37	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	22617	No
41	GOM_NL__2PRFIN20060628_031648_000000382049_00018_22617_9514.N1	28-JUN-2006 03:16:48	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	22617	No
42	GOM_NL__2PRFIN20060628_031902_000000342049_00018_22617_9515.N1	28-JUN-2006 03:19:02	Bright	33.500	119	14Eta Dra	2.7270	4700.0	67	22617	No

279	GOM_NL__2PRFIN20060628_214321_000000372049_00029_22628_9726.N1	28-JUN-2006 21:43:21	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	22628	No
280	GOM_NL__2PRFIN20060628_214538_000000362049_00029_22628_9727.N1	28-JUN-2006 21:45:38	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	22628	No
281	GOM_NL__2PRFIN20060628_214933_000000332049_00029_22628_9728.N1	28-JUN-2006 21:49:33	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	22628	No
282	GOM_NL__2PRFIN20060628_215351_000000342049_00029_22628_9729.N1	28-JUN-2006 21:53:51	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	22628	No
283	GOM_NL__2PRFIN20060628_220410_000000392049_00029_22628_9730.N1	28-JUN-2006 22:04:10	Bright	38.500	160	23Gam Per	2.9300	4700.0	77	22628	No
284	GOM_NL__2PRFIN20060628_220550_000000332049_00029_22628_9731.N1	28-JUN-2006 22:05:50	Bright	33.000	175	39Del Per	3.0100	19400.	66	22628	No
285	GOM_NL__2PRFIN20060628_220759_000000372049_00029_22628_9732.N1	28-JUN-2006 22:07:59	Bright	37.000	79	26Bet Per	2.3100	13100.	74	22628	No
286	GOM_NL__2PRFIN20060628_221911_000000402049_00029_22628_9733.N1	28-JUN-2006 22:19:11	Dark	39.500	94	92Alp Cet	2.5260	3100.0	79	22628	No
287	GOM_NL__2PRFIN20060628_222258_000000382049_00029_22628_9734.N1	28-JUN-2006 22:22:58	Dark	38.000	165	34Gam Eri	2.9500	3200.0	76	22628	No
288	GOM_NL__2PRFIN20060628_223723_000000502049_00030_22629_9714.N1	28-JUN-2006 22:37:23	Dark	50.000	9	Alp Eri	0.45300	24000.	100	22629	No
289	GOM_NL__2PRFIN20060628_224446_000000422049_00030_22629_9715.N1	28-JUN-2006 22:44:46	Straylight	42.000	148	Alp Tuc	2.8780	4100.0	84	22629	No
290	GOM_NL__2PRFIN20060628_224911_000000422049_00030_22629_9716.N1	28-JUN-2006 22:49:11	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	22629	No
291	GOM_NL__2PRFIN20060628_225438_000000372049_00030_22629_9717.N1	28-JUN-2006 22:54:38	Straylight	37.000	147	Alp Ara	2.8770	26000.	74	22629	No
292	GOM_NL__2PRFIN20060628_225626_000000432049_00030_22629_9718.N1	28-JUN-2006 22:56:26	Tw_i_and_stray	42.500	40	The Sco	1.8590	7100.0	85	22629	No
293	GOM_NL__2PRFIN20060628_225806_000000412049_00030_22629_9719.N1	28-JUN-2006 22:58:06	Tw_i_and_stray	40.500	25	35Lam Sco	1.6200	28000.	81	22629	No
294	GOM_NL__2PRFIN20060628_225930_000000472049_00030_22629_9720.N1	28-JUN-2006 22:59:30	Bright	46.500	116	19Del Sgr	2.7000	4100.0	93	22629	No
295	GOM_NL__2PRFIN20060628_230420_000000362049_00030_22629_9721.N1	28-JUN-2006 23:04:20	Bright	35.500	86	35Eta Oph	2.4300	10200.	71	22629	No
296	GOM_NL__2PRFIN20060628_230605_000000362049_00030_22629_9722.N1	28-JUN-2006 23:06:05	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	22629	No
297	GOM_NL__2PRFIN20060628_231005_000000372049_00030_22629_9723.N1	28-JUN-2006 23:10:05	Bright	37.000	126	60Bet Oph	2.7700	4250.0	74	22629	No
298	GOM_NL__2PRFIN20060628_231226_000000372049_00030_22629_9724.N1	28-JUN-2006 23:12:26	Bright	36.500	59	55Alp Oph	2.0800	8900.0	73	22629	No
299	GOM_NL__2PRFIN20060628_231502_000000362049_00030_22629_9725.N1	28-JUN-2006 23:15:02	Bright	36.000	127	27Bet Her	2.7810	4700.0	72	22629	No
300	GOM_NL__2PRFIN20060628_231748_000000362049_00030_22629_9726.N1	28-JUN-2006 23:17:48	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	22629	No
301	GOM_NL__2PRFIN20060628_232356_000000392049_00030_22629_9727.N1	28-JUN-2006 23:23:56	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	22629	No
302	GOM_NL__2PRFIN20060628_232613_000000522049_00030_22629_9728.N1	28-JUN-2006 23:26:13	Bright	52.000	119	14Eta Dra	2.7270	4700.0	104	22629	No
303	GOM_NL__2PRFIN20060628_233009_000000362049_00030_22629_9729.N1	28-JUN-2006 23:30:09	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	22629	No
304	GOM_NL__2PRFIN20060628_233427_000000342049_00030_22629_9730.N1	28-JUN-2006 23:34:27	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	22629	No
305	GOM_NL__2PRFIN20060628_234446_000000372049_00030_22629_9731.N1	28-JUN-2006 23:44:46	Bright	37.000	160	23Gam Per	2.9300	4700.0	74	22629	No
306	GOM_NL__2PRFIN20060628_234626_000000492049_00030_22629_9732.N1	28-JUN-2006 23:46:26	Bright	48.500	175	39Del Per	3.0100	19400.	97	22629	No
307	GOM_NL__2PRFIN20060628_234835_000000372049_00030_22629_9733.N1	28-JUN-2006 23:48:35	Bright	37.000	79	26Bet Per	2.3100	13100.	74	22629	No
308	GOM_NL__2PRFIN20060628_235947_000000432049_00030_22629_9734.N1	28-JUN-2006 23:59:47	Dark	42.500	94	92Alp Cet	2.5260	3100.0	85	22629	No

3. Quality information per product

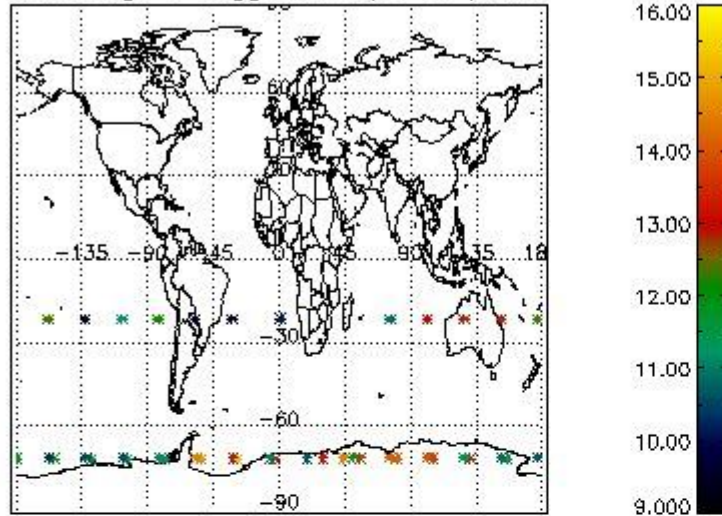
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

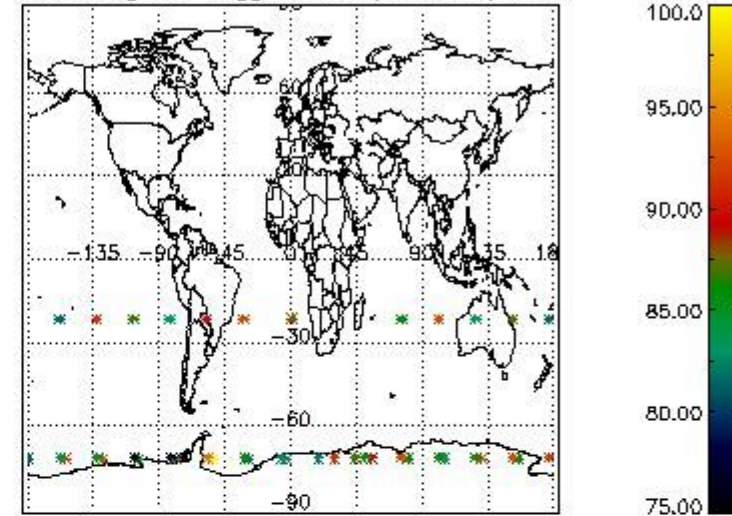


3.2 Plot quality information per product (world map)

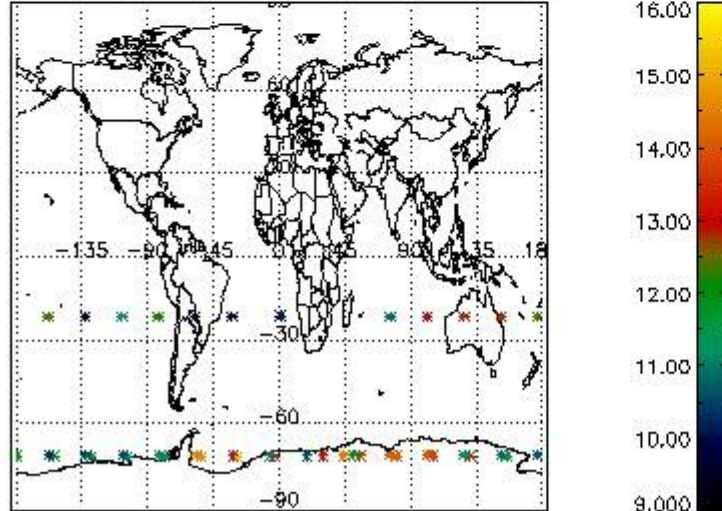
Percentage of flagged data per O3 profile



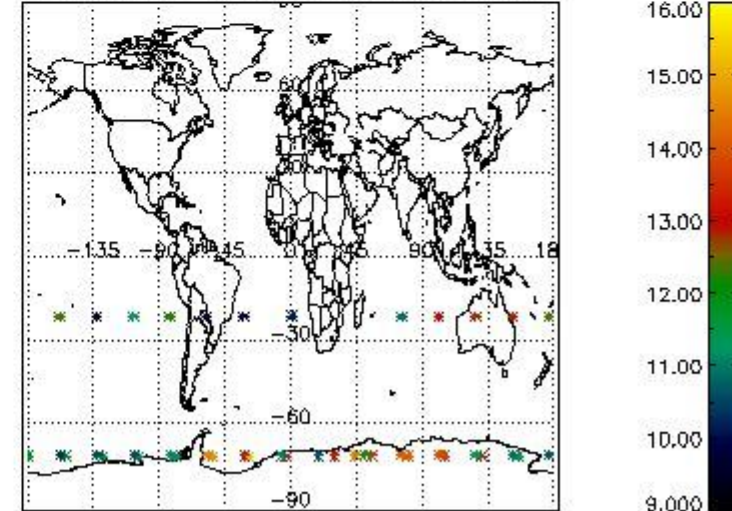
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

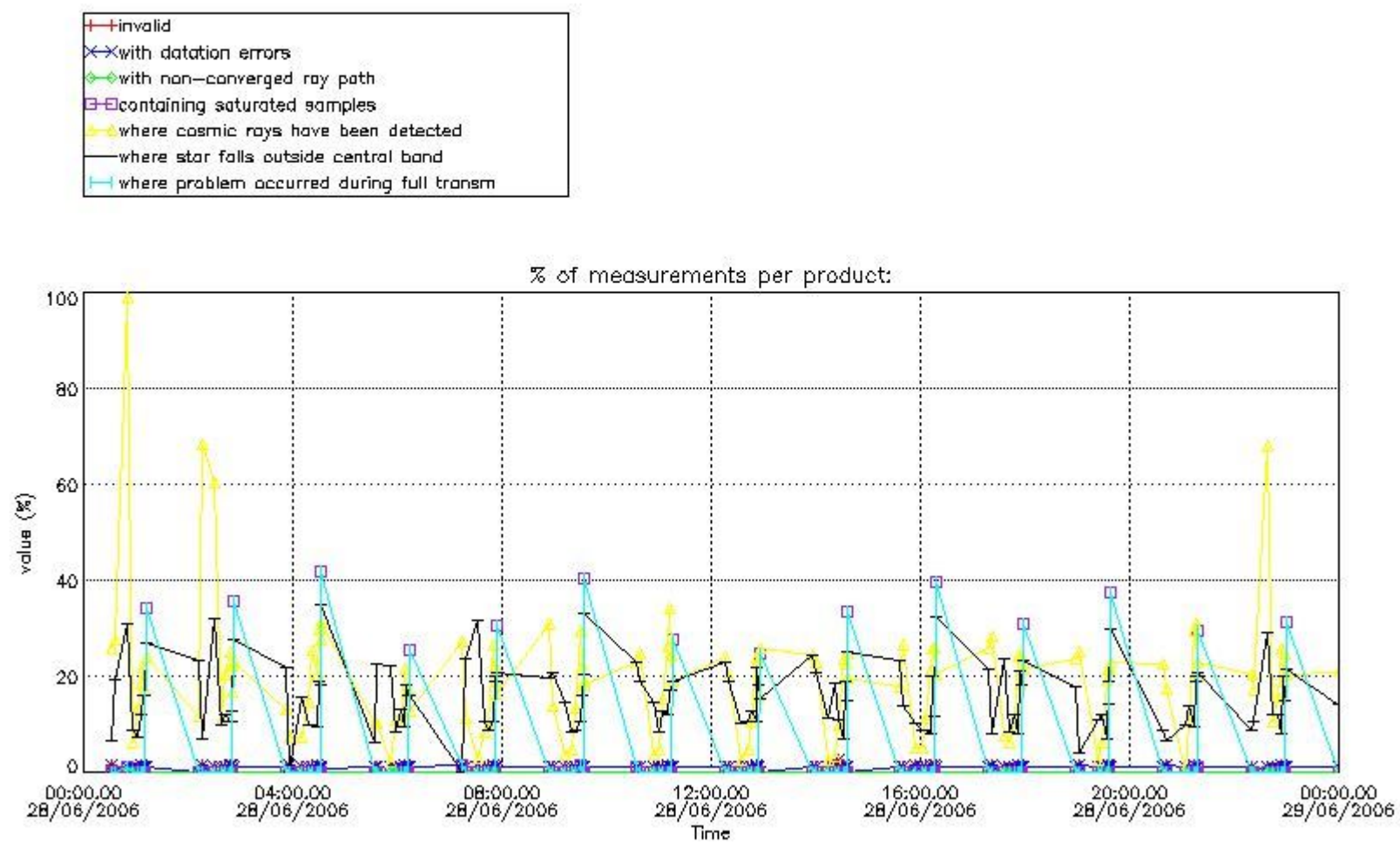


4. Level 1 quality information per product

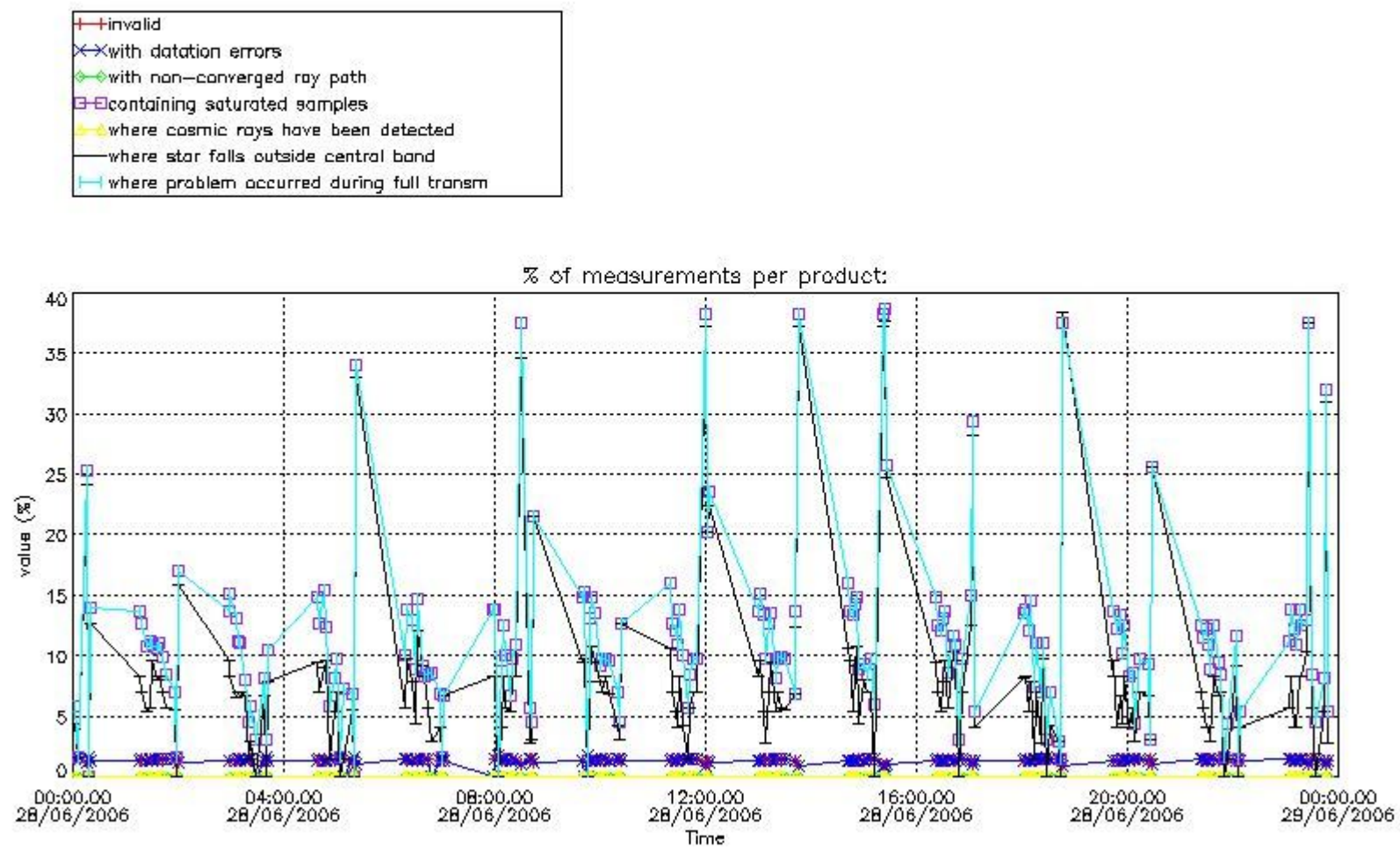
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



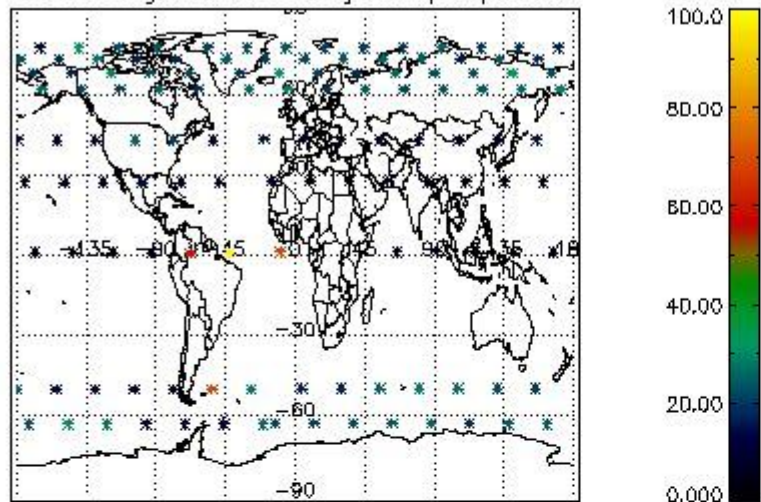
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



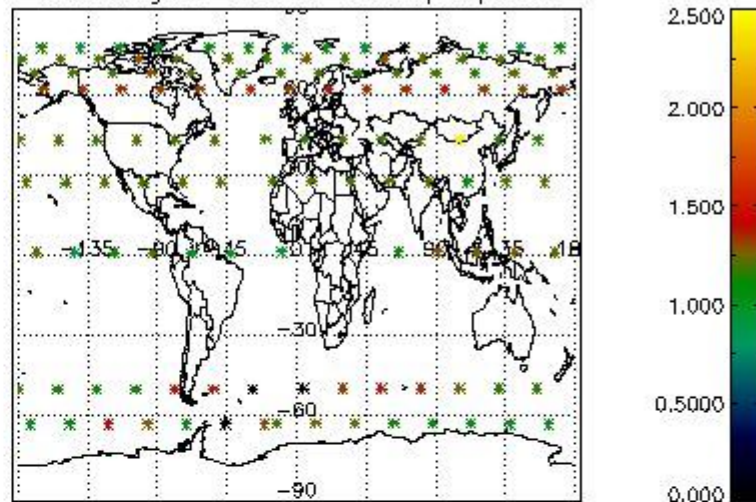
4.2 Plot quality information per product coming from level 1b processing (world map)

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

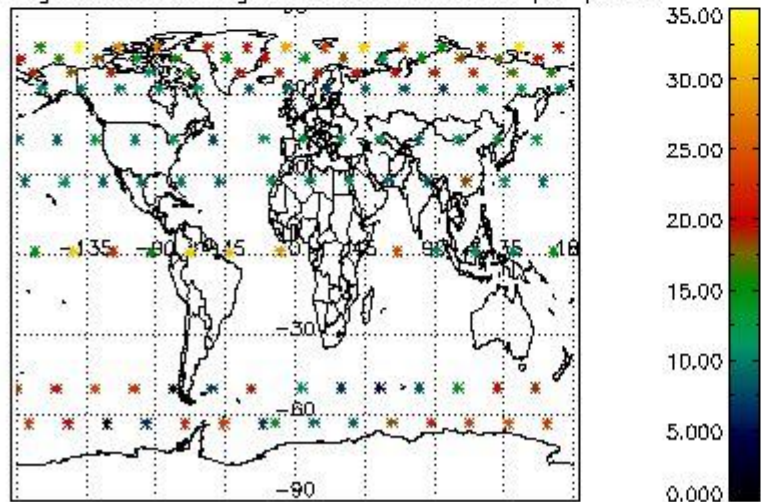
Percentage of cosmic ray hits per profile



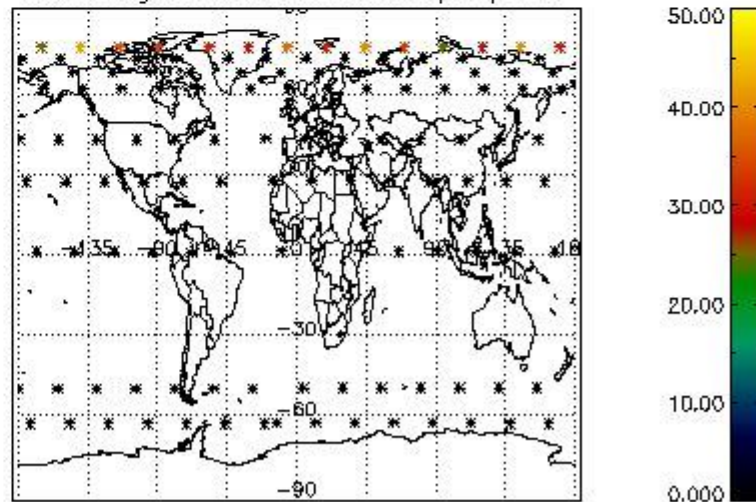
Percentage of datation errors per profile



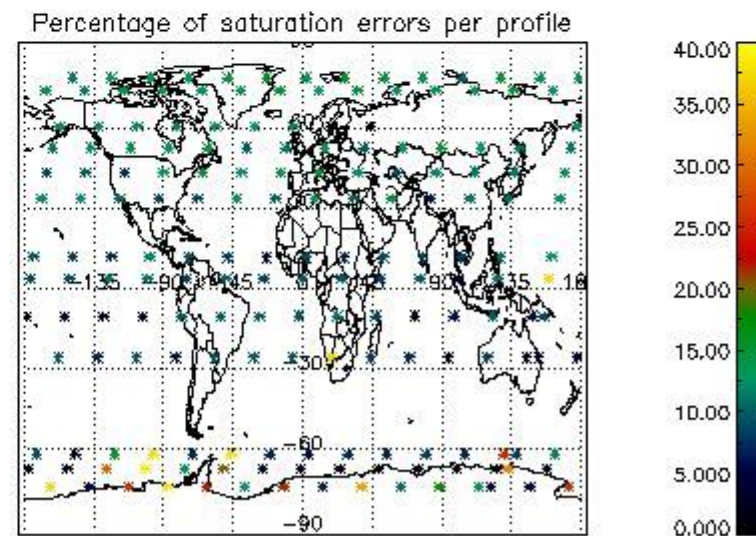
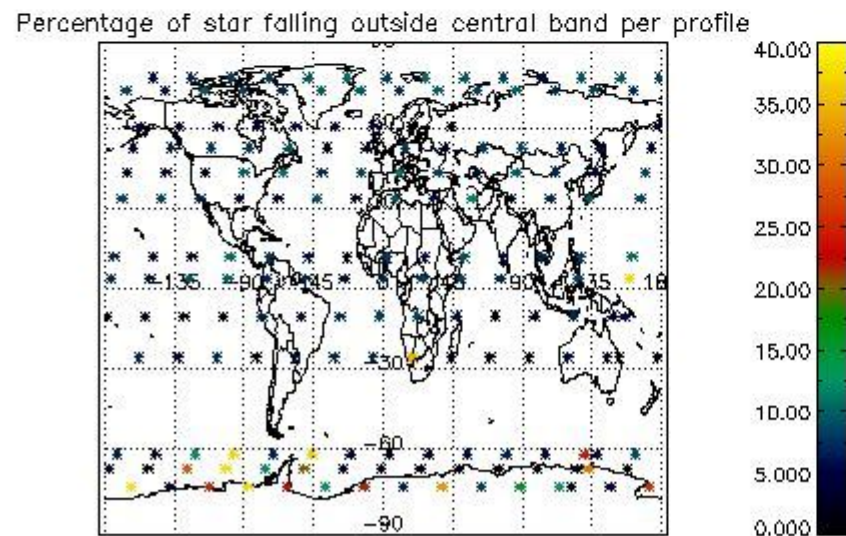
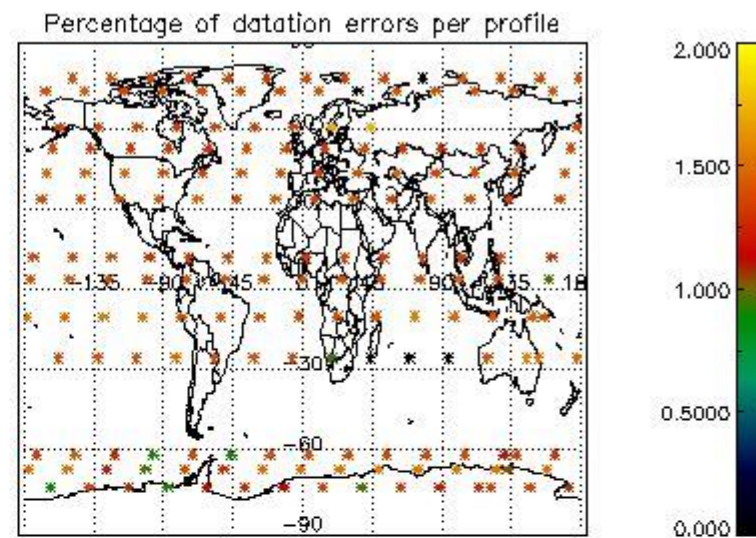
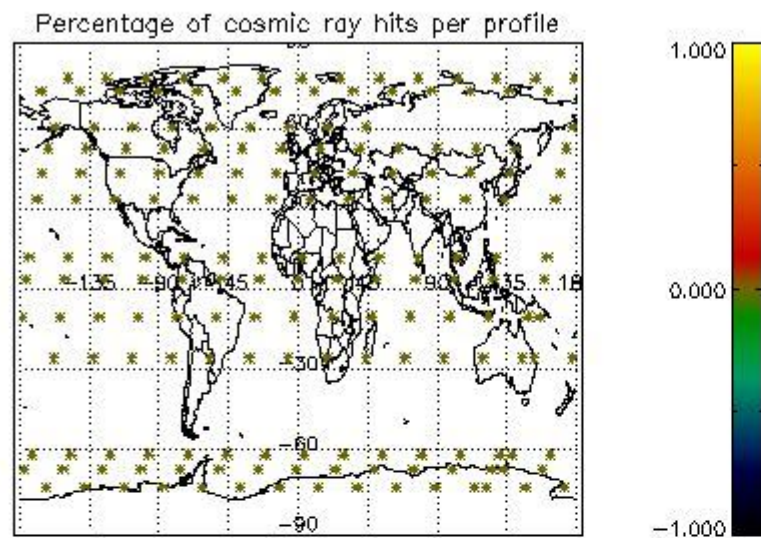
Percentage of star falling outside central band per profile



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

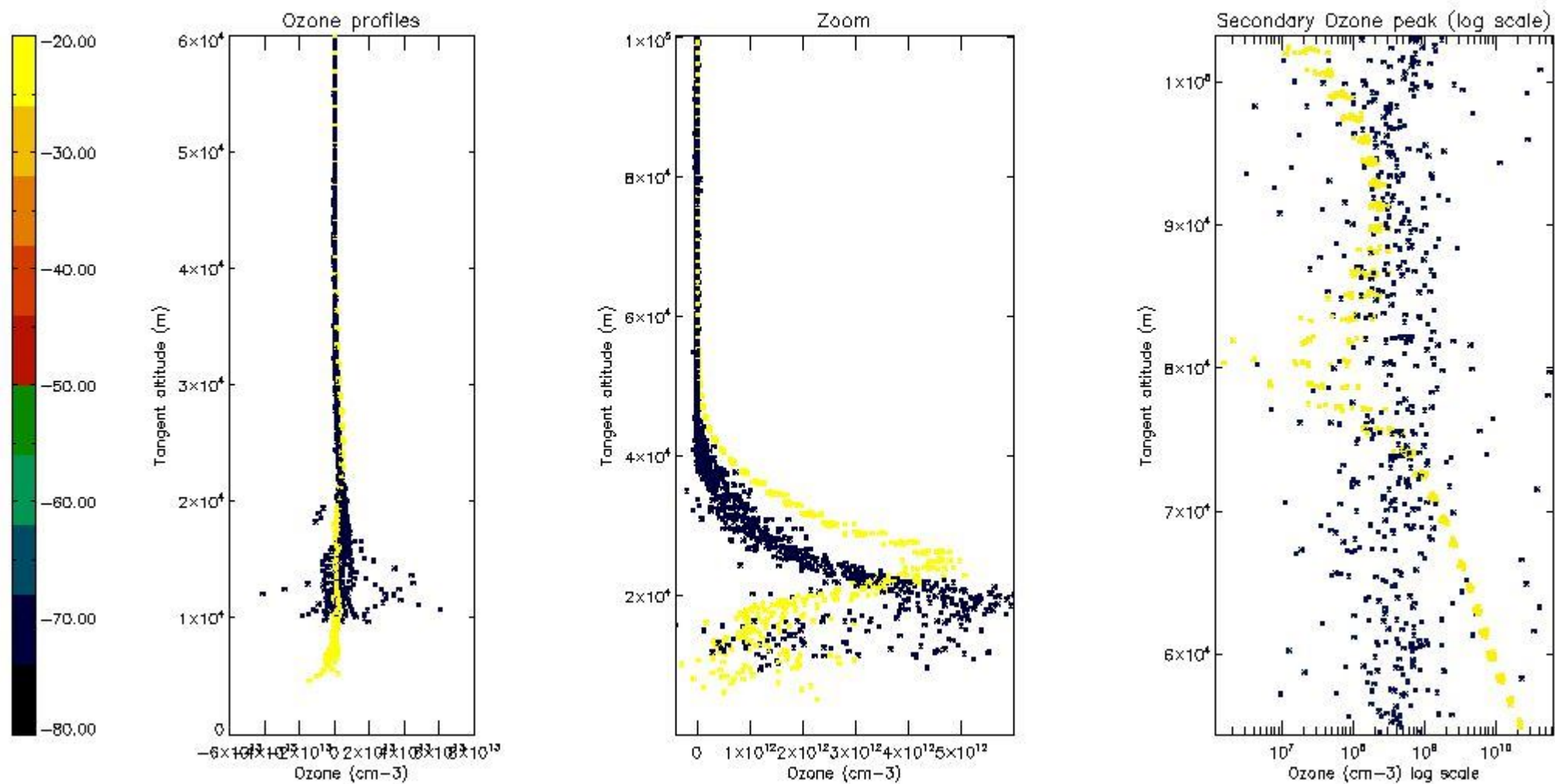
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	15
STD < 20	5

STD < 10	3
STD < 5	2

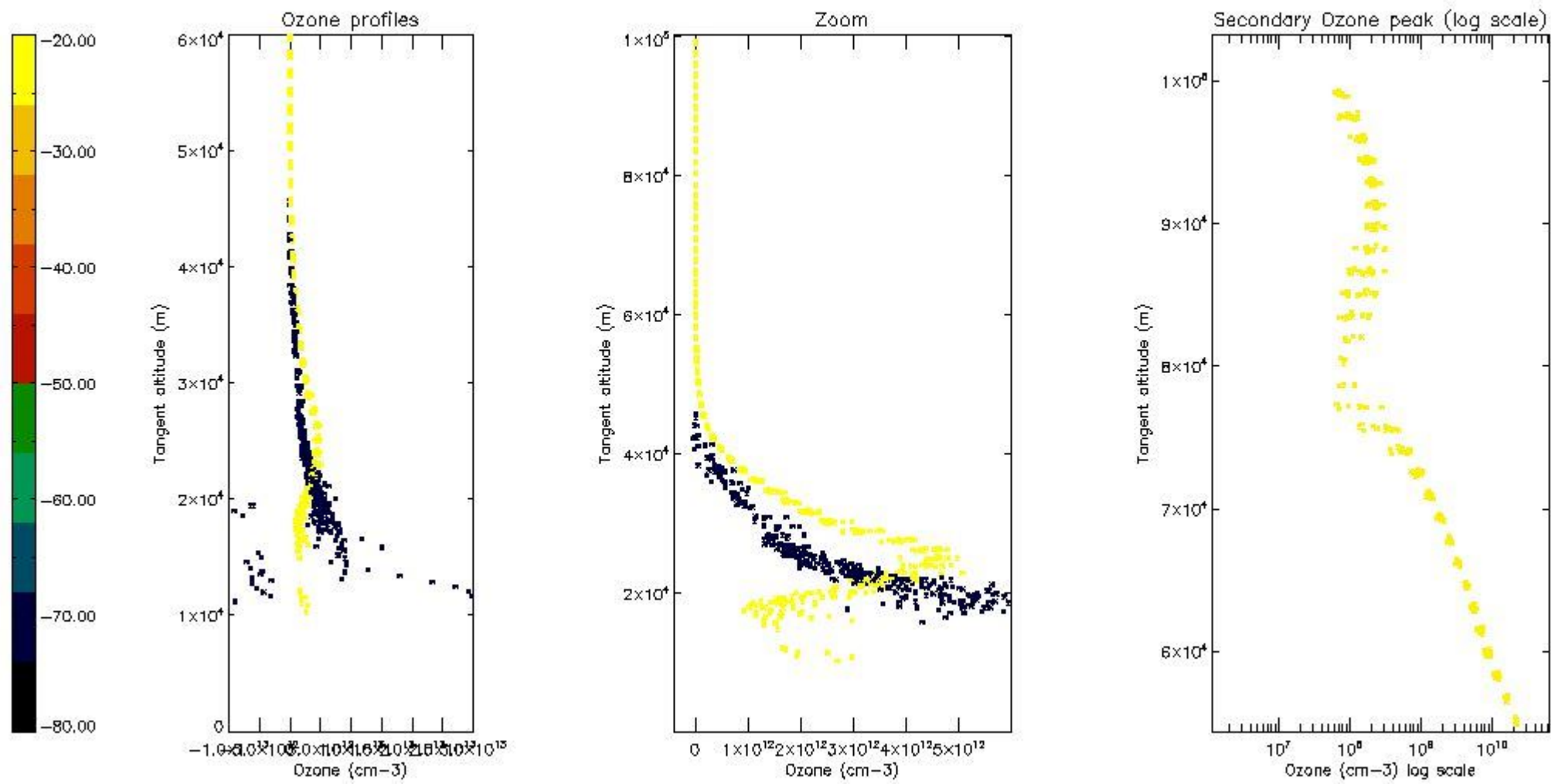
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



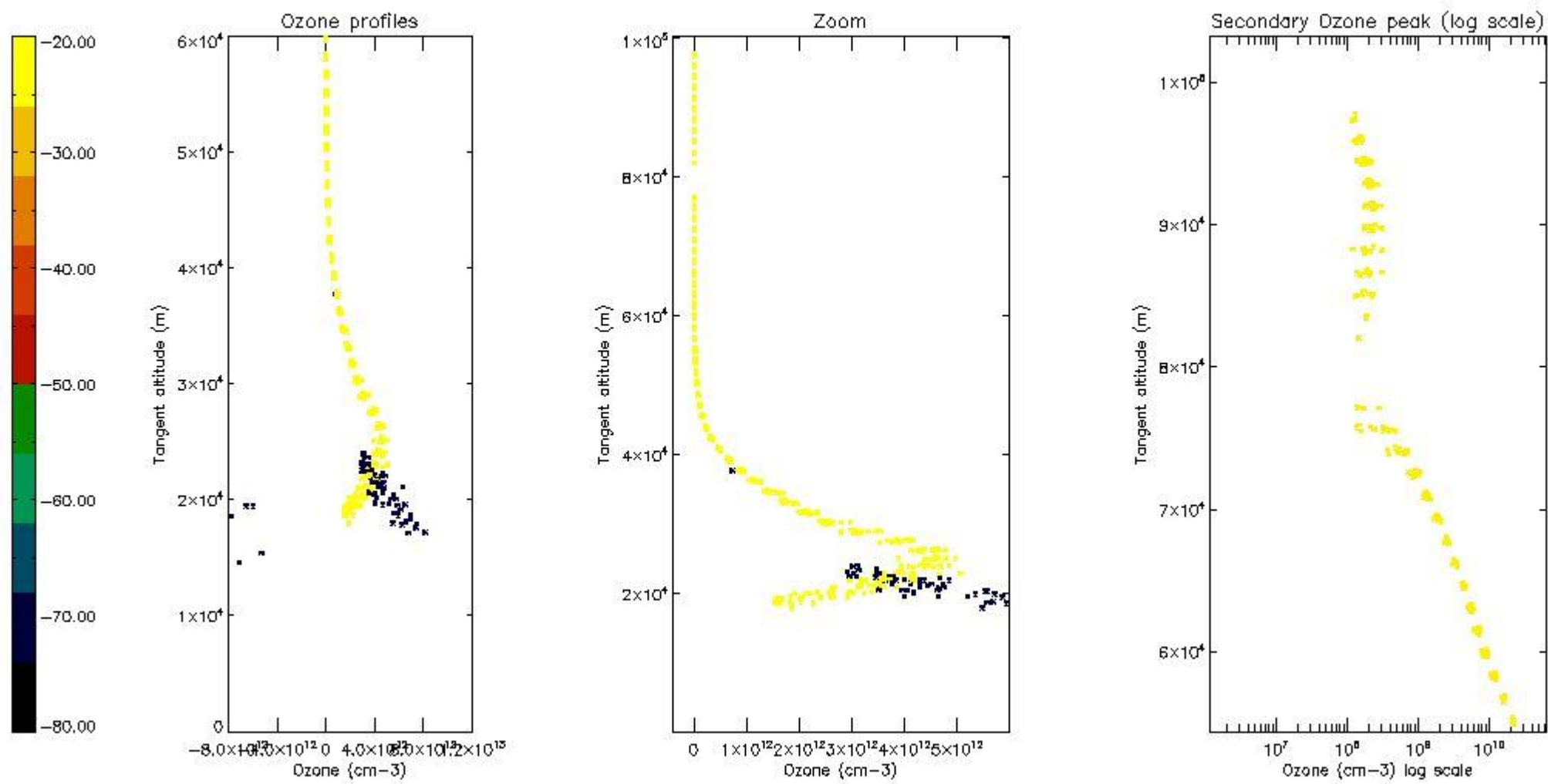
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



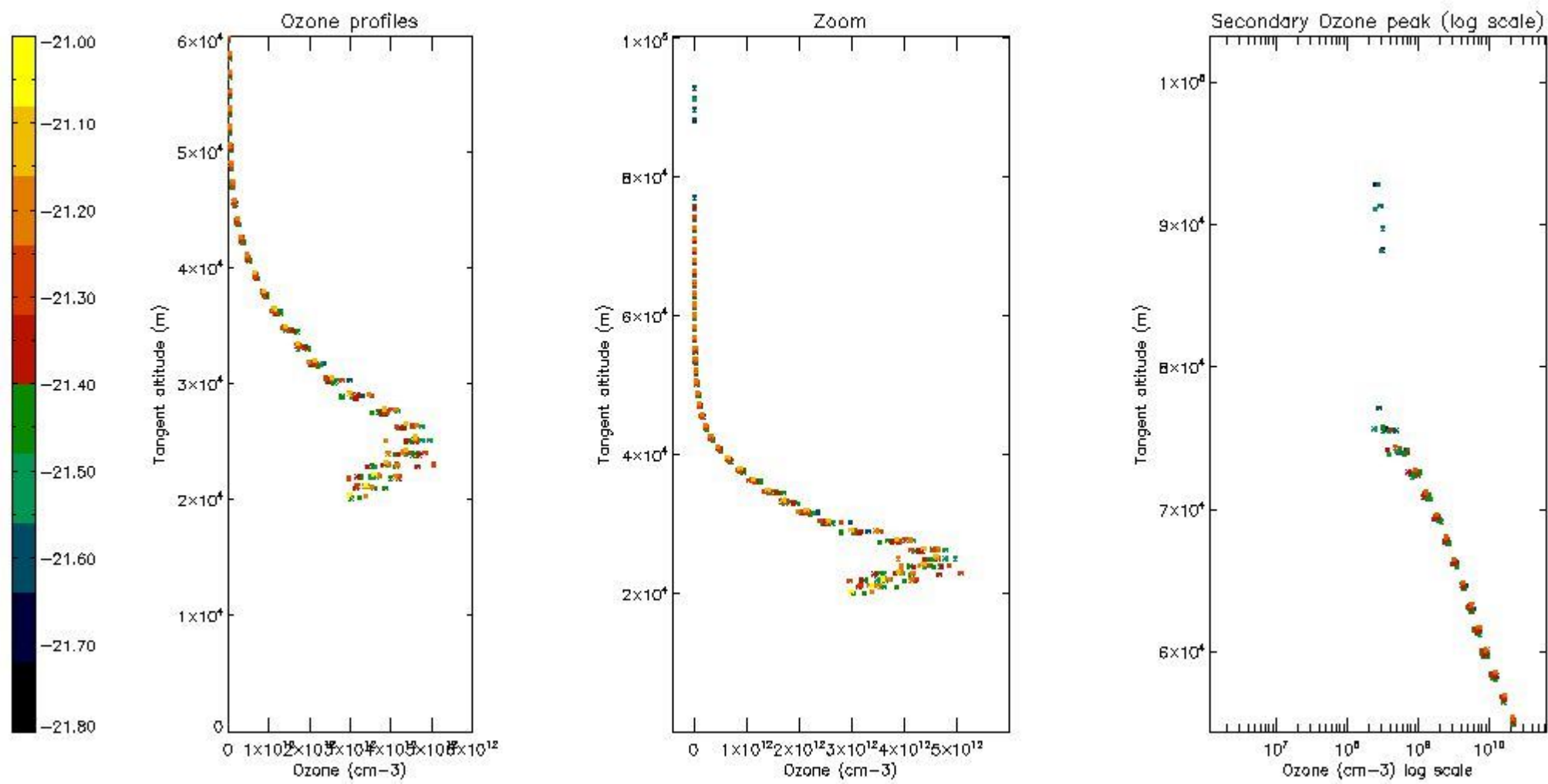
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



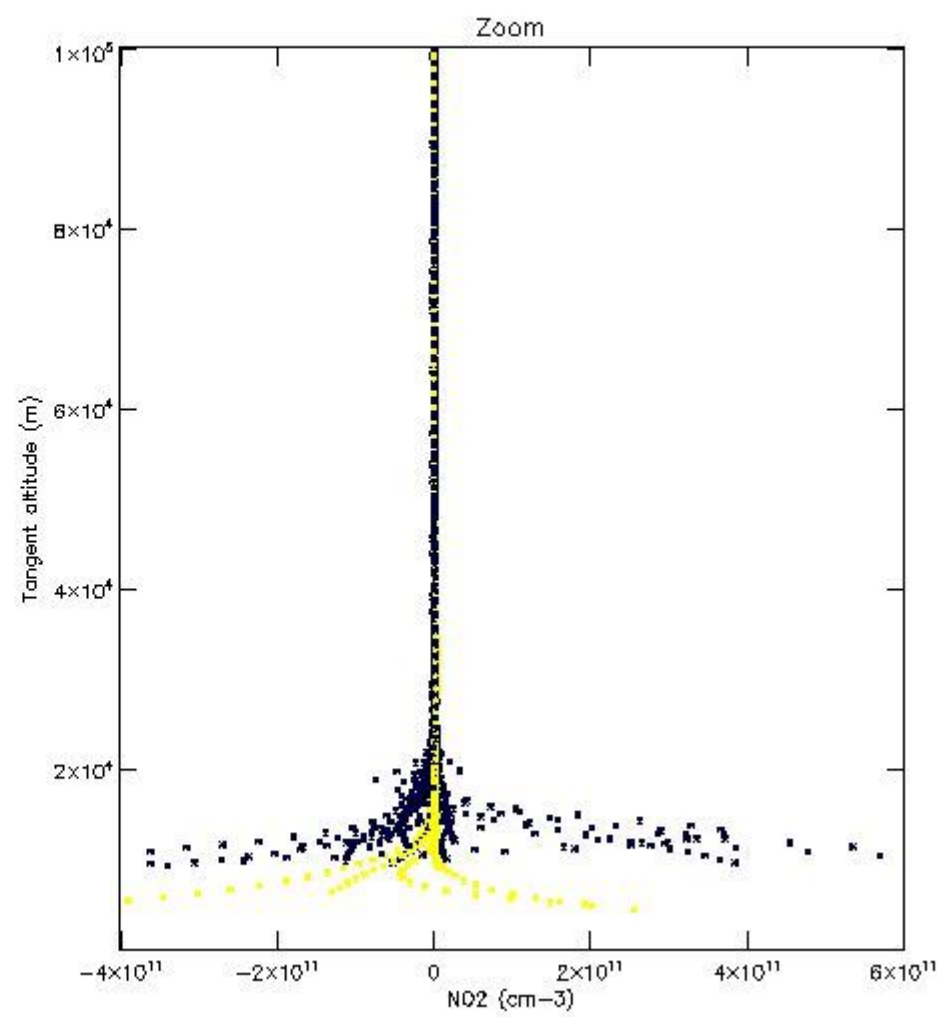
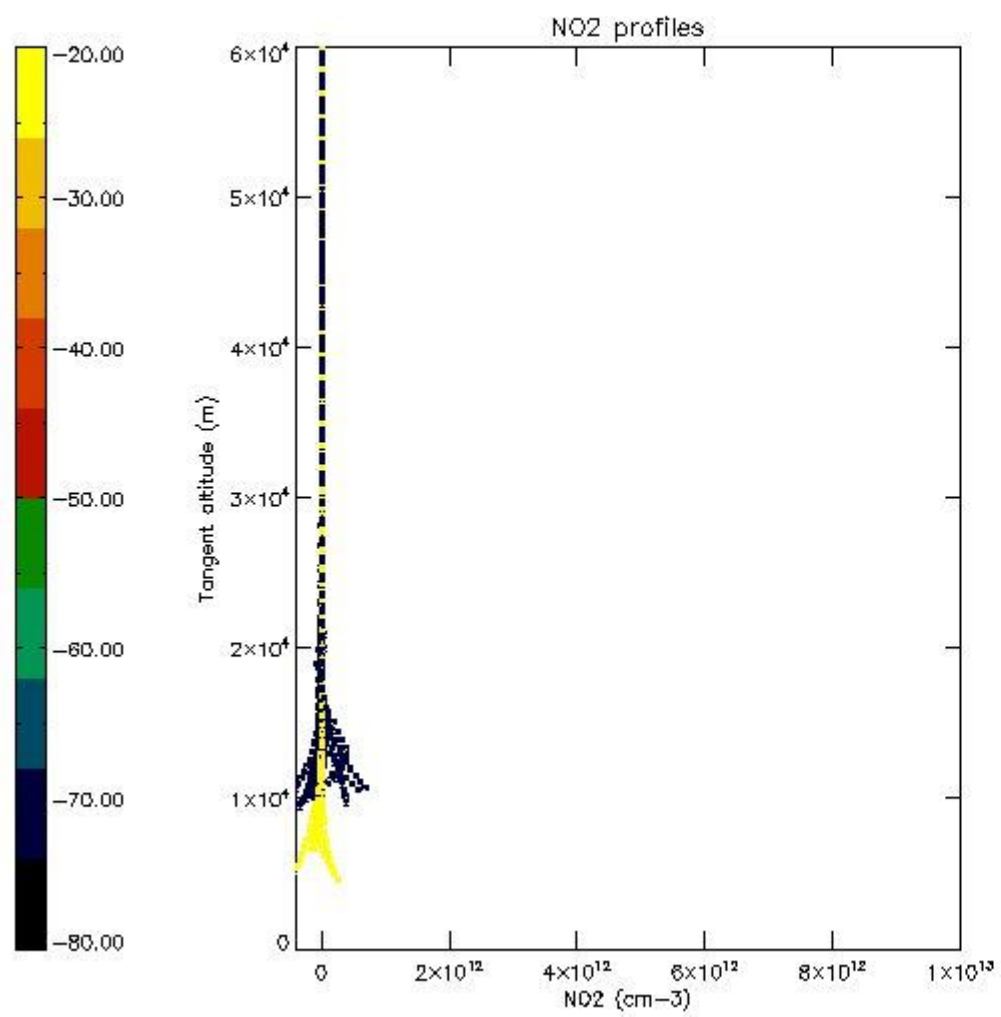
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



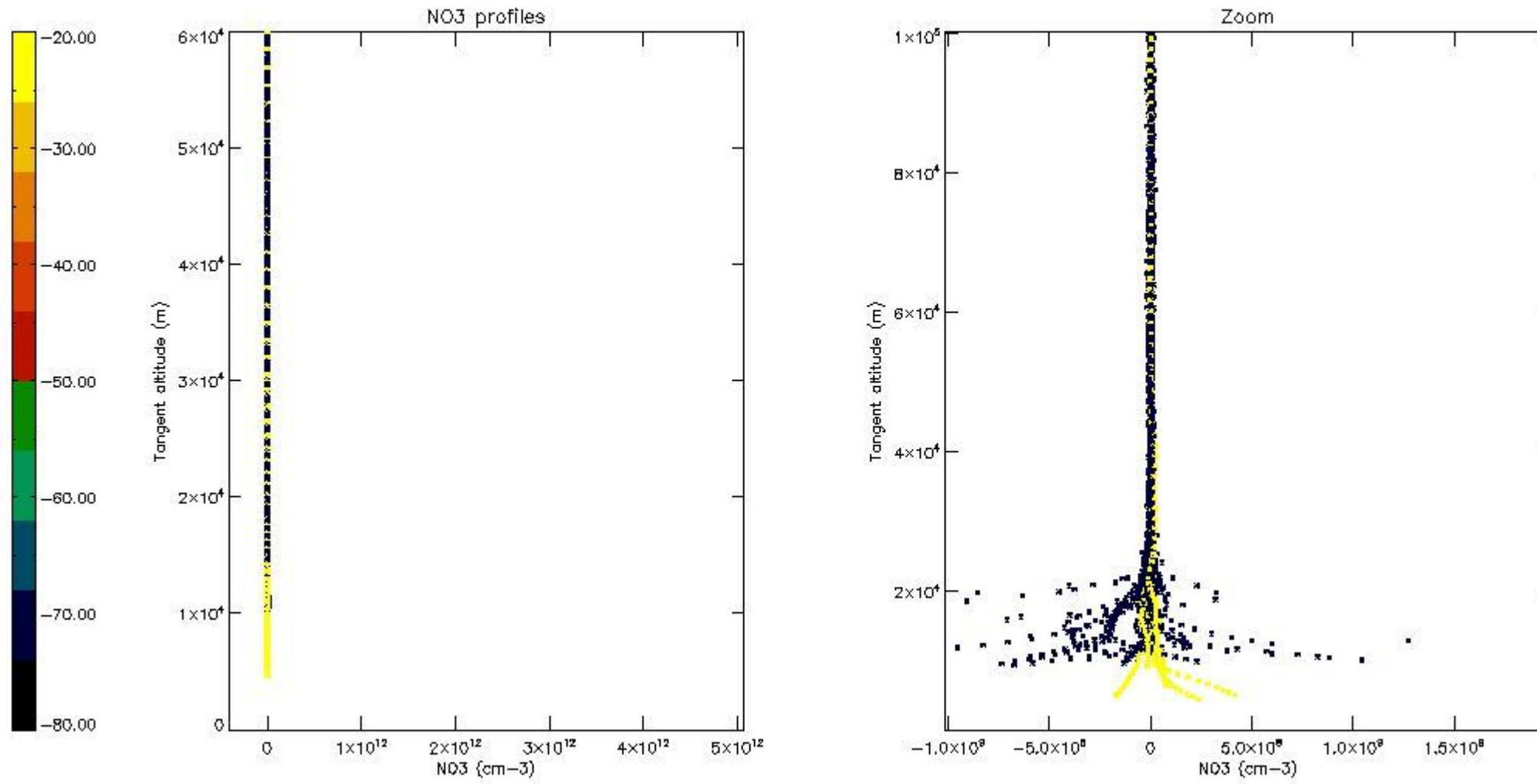
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

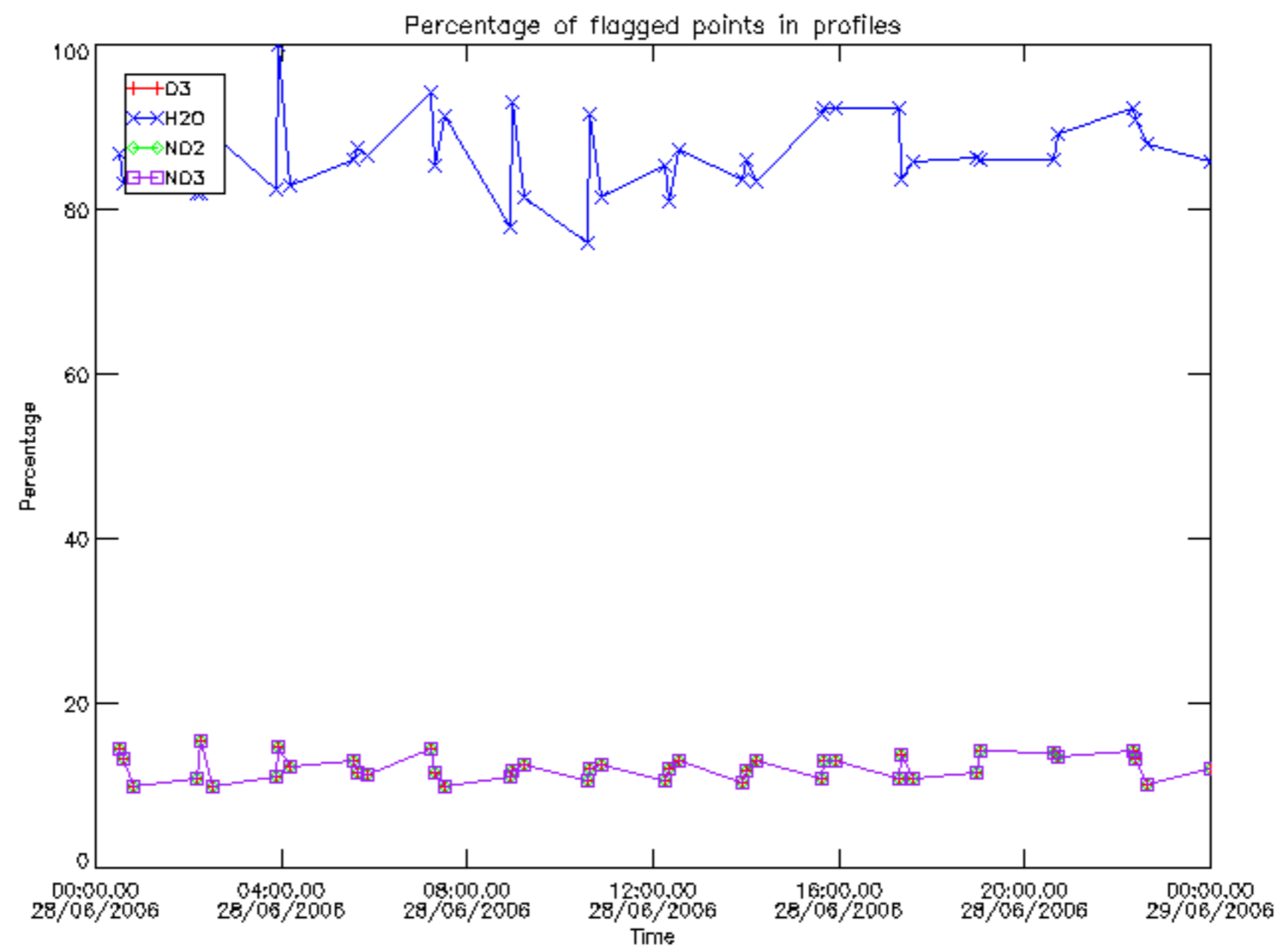
The colorbar represents the latitude.



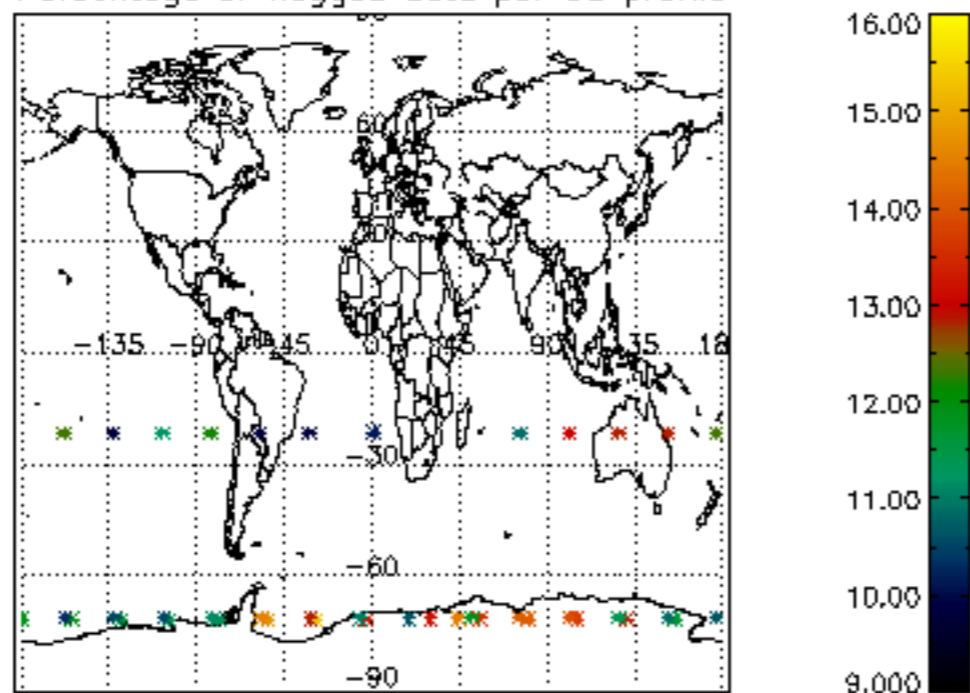
6. Auxiliary Data Files used for the production reported in section 2

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

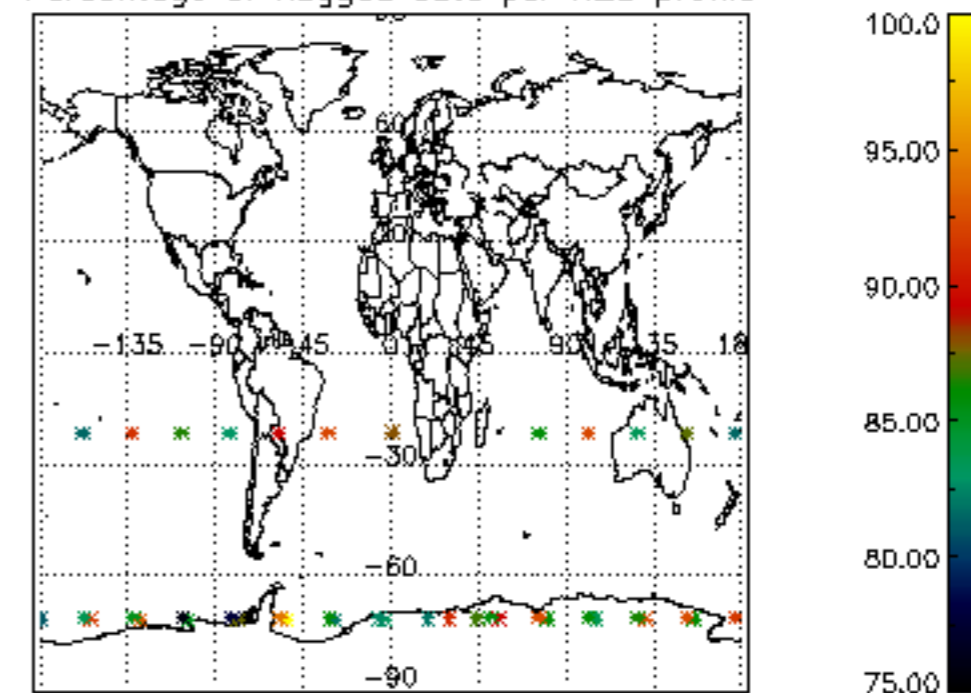
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	28-JUN-2006 00:01:44
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	28-JUN-2006 00:01:44
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	28-JUN-2006 00:01:44



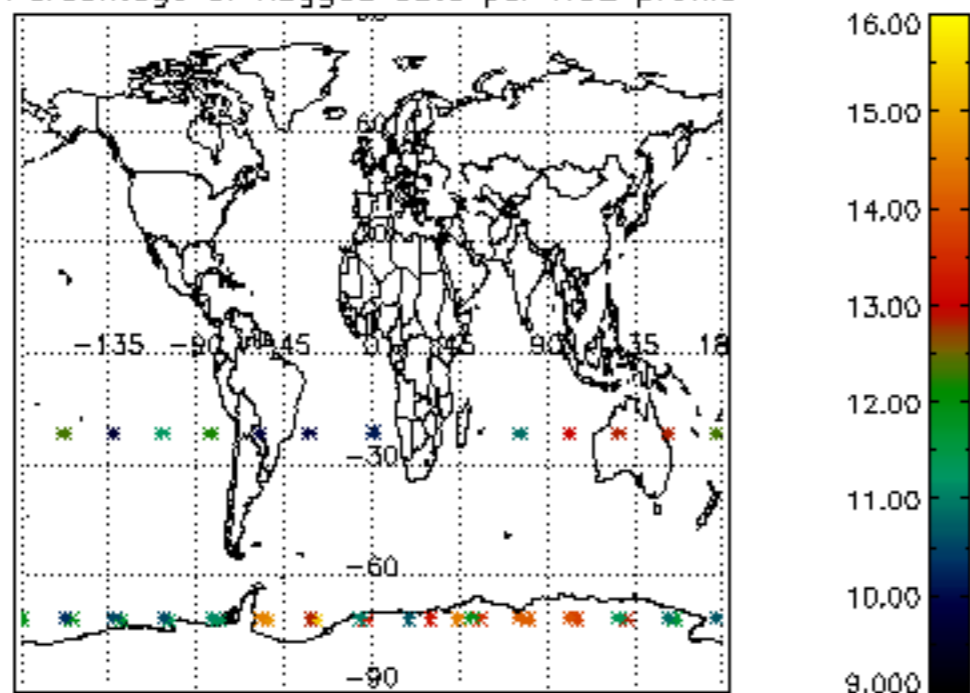
Percentage of flagged data per D3 profile



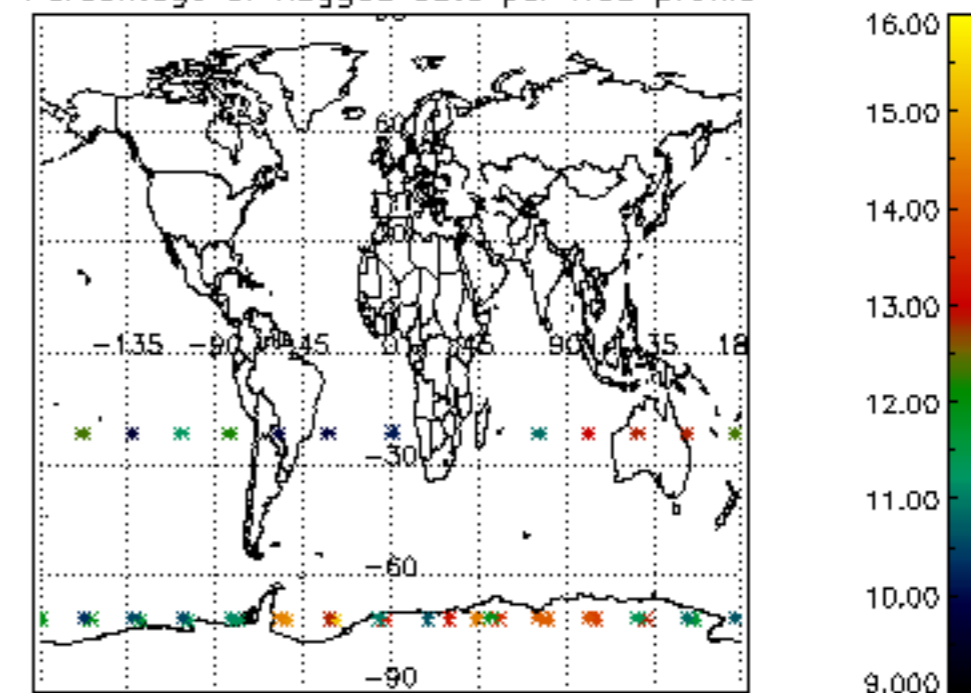
Percentage of flagged data per H2O profile

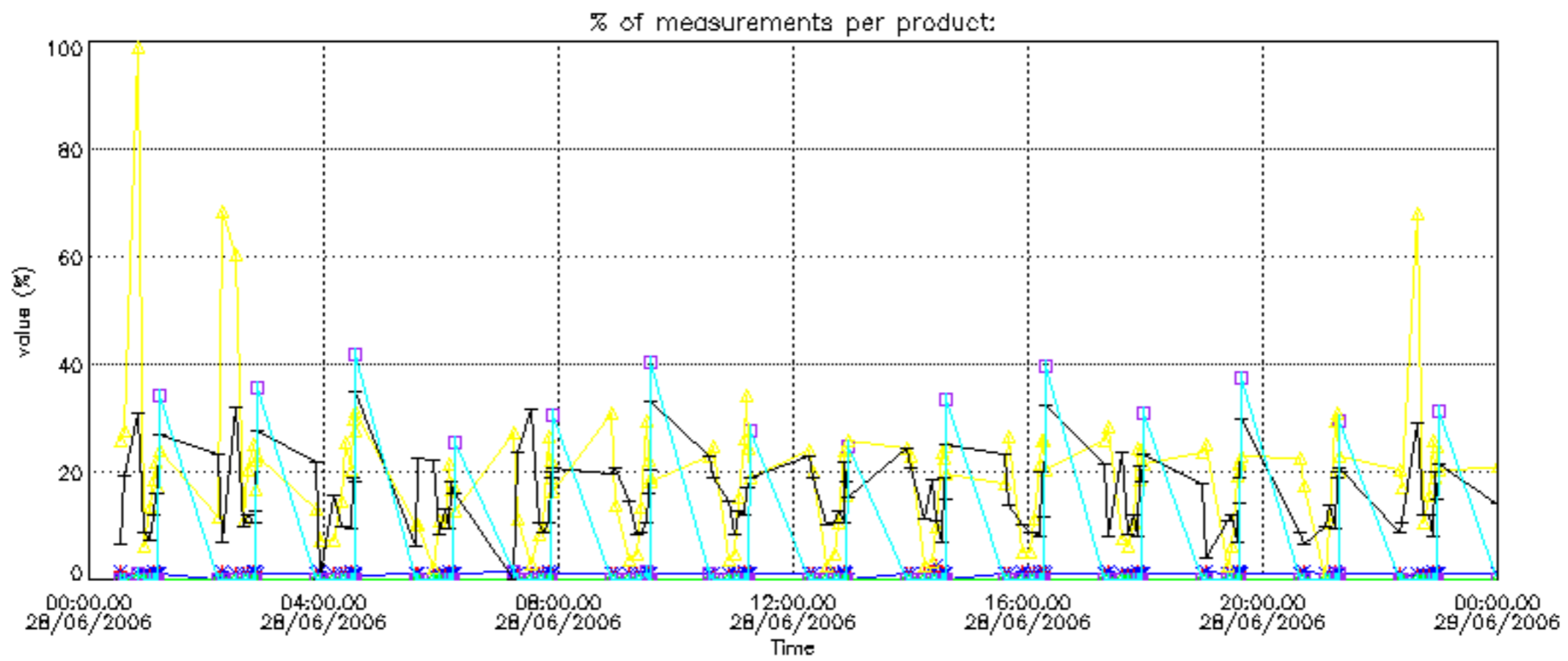


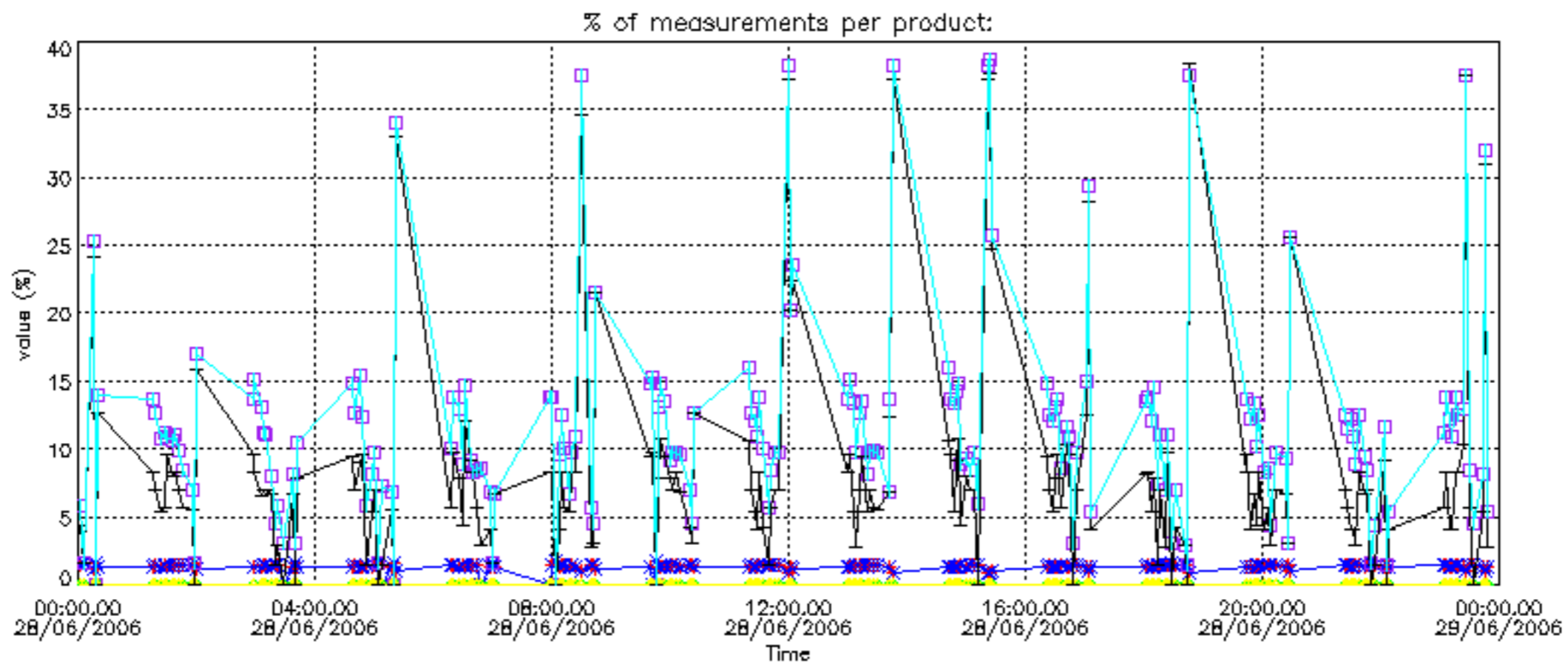
Percentage of flagged data per NO2 profile



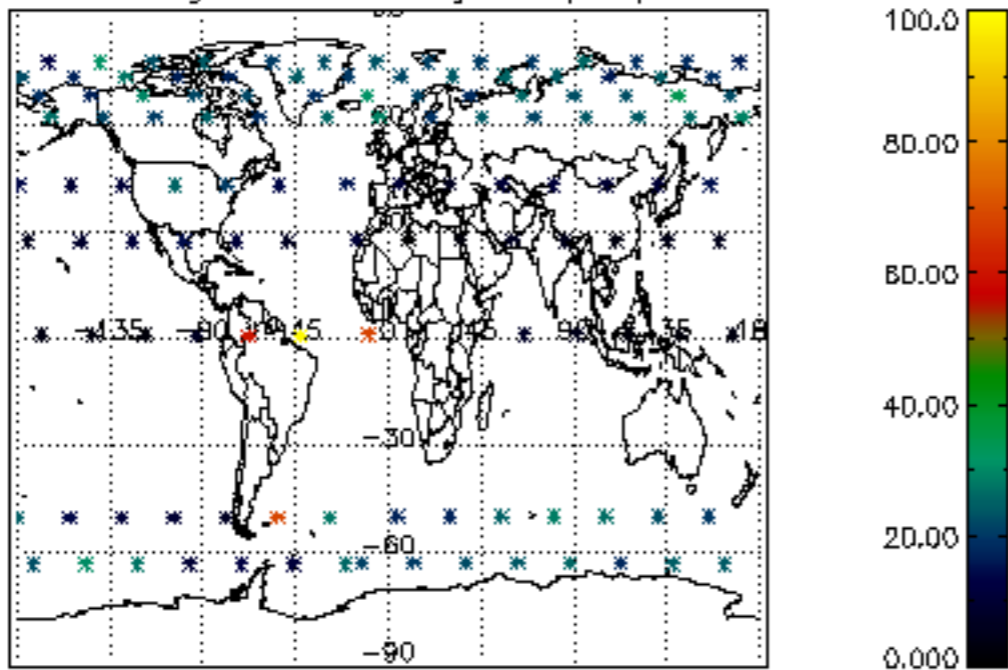
Percentage of flagged data per NO3 profile



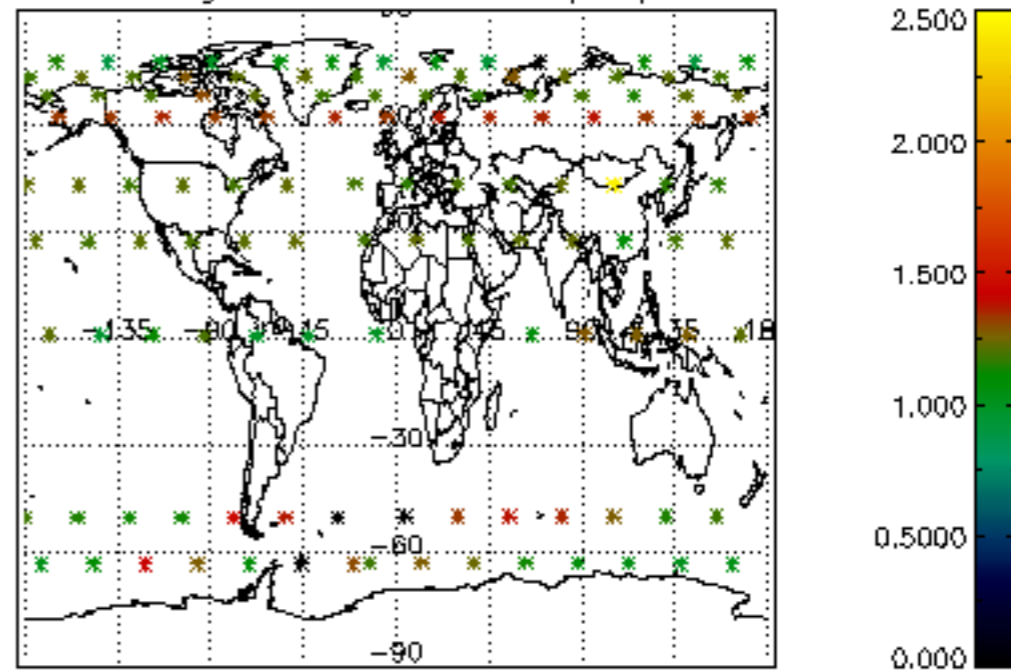




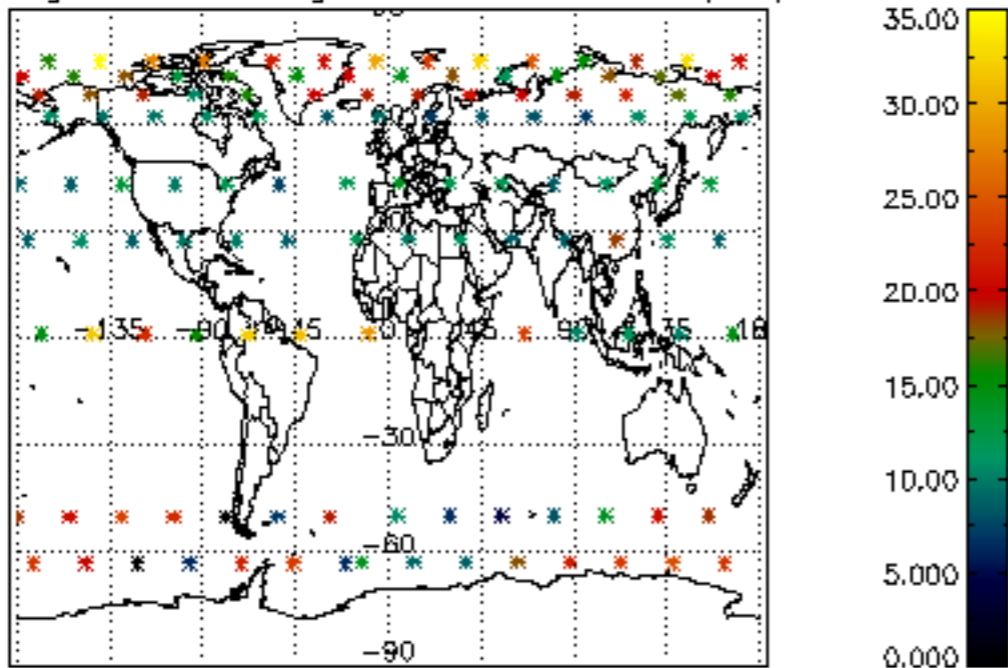
Percentage of cosmic ray hits per profile



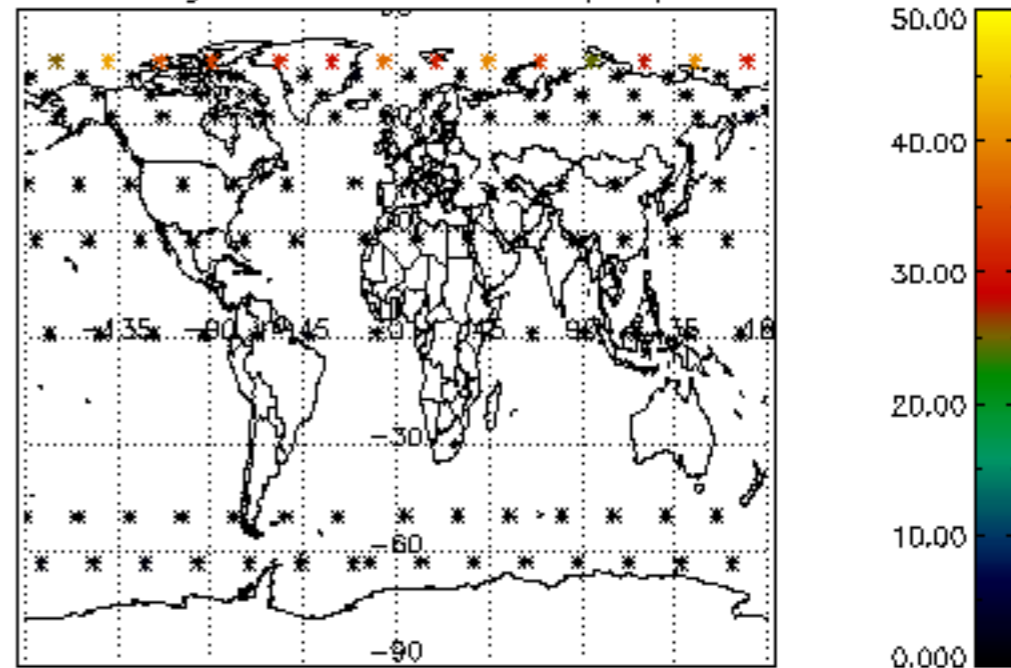
Percentage of datation errors per profile



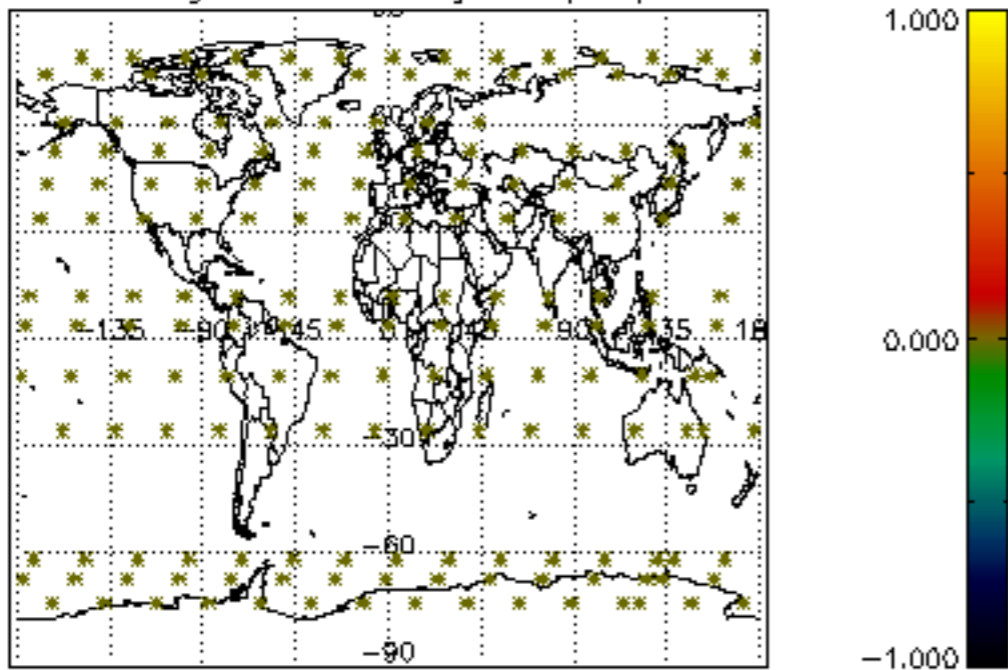
Percentage of star falling outside central band per profile



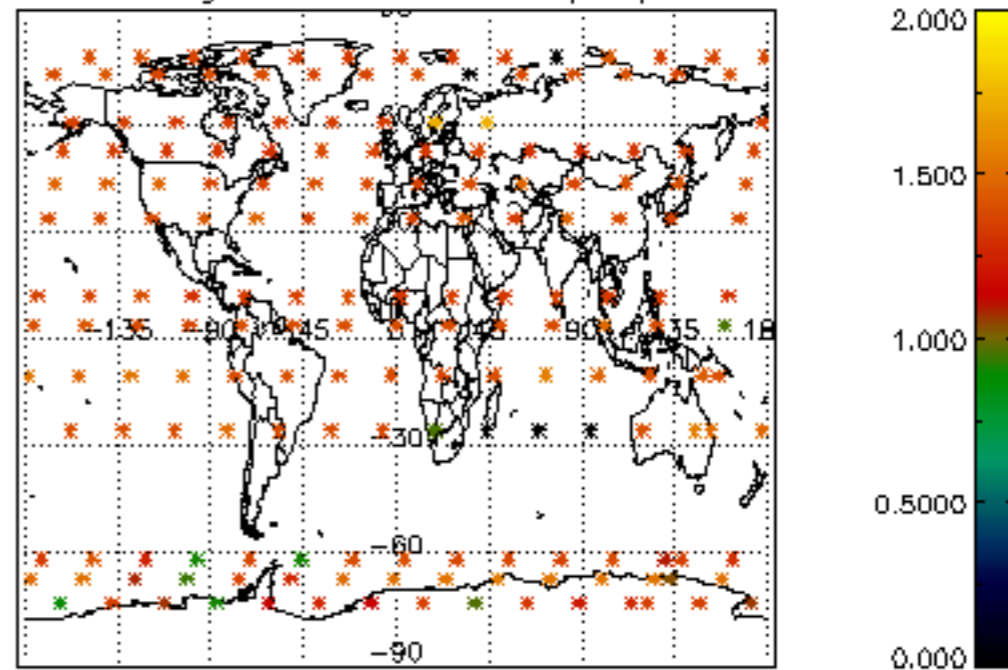
Percentage of saturation errors per profile



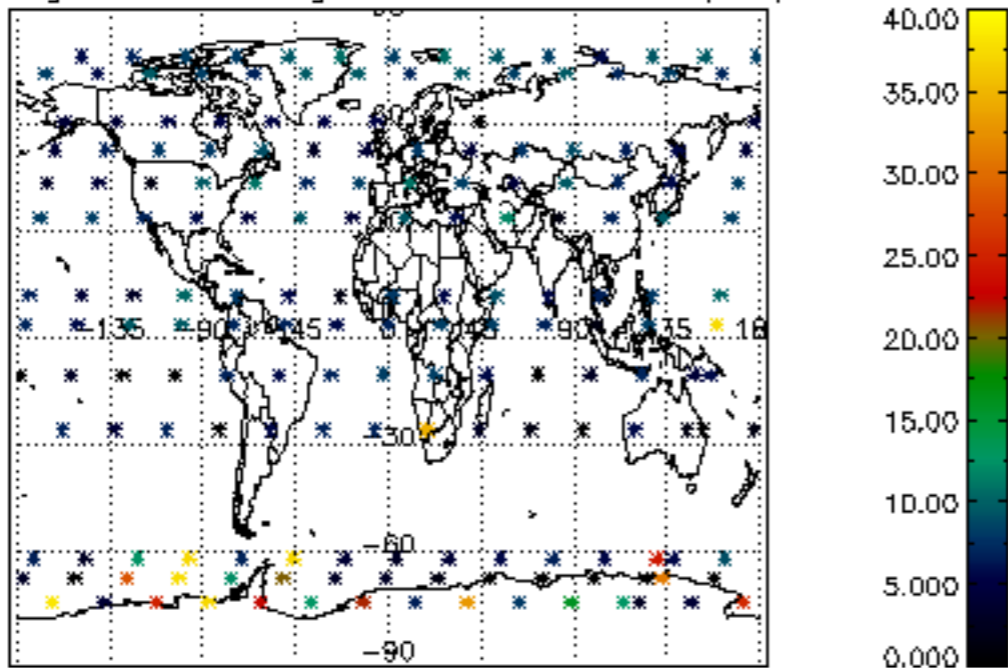
Percentage of cosmic ray hits per profile



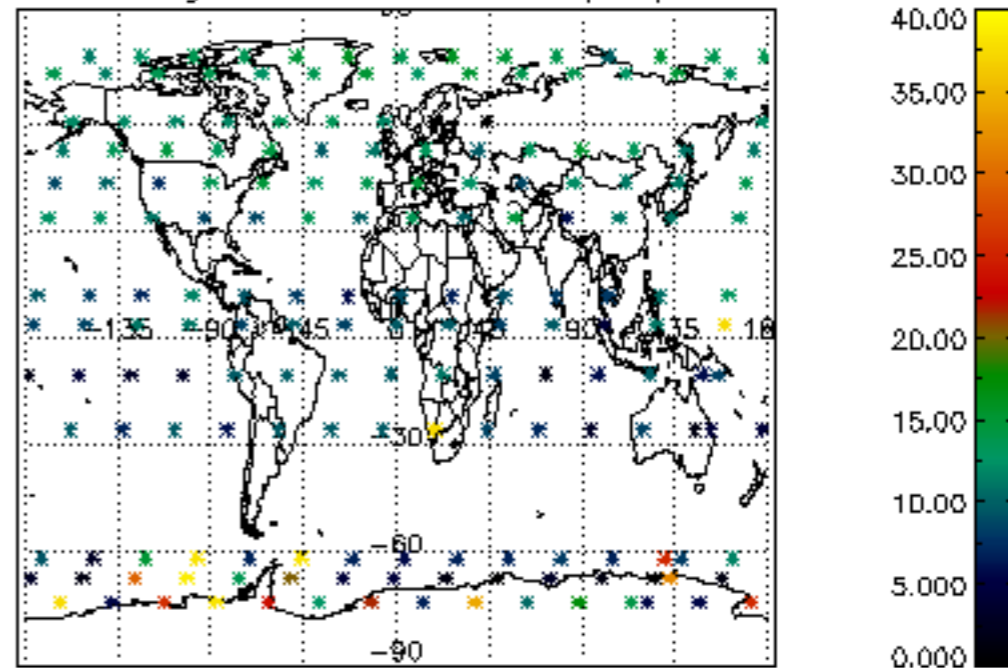
Percentage of datation errors per profile

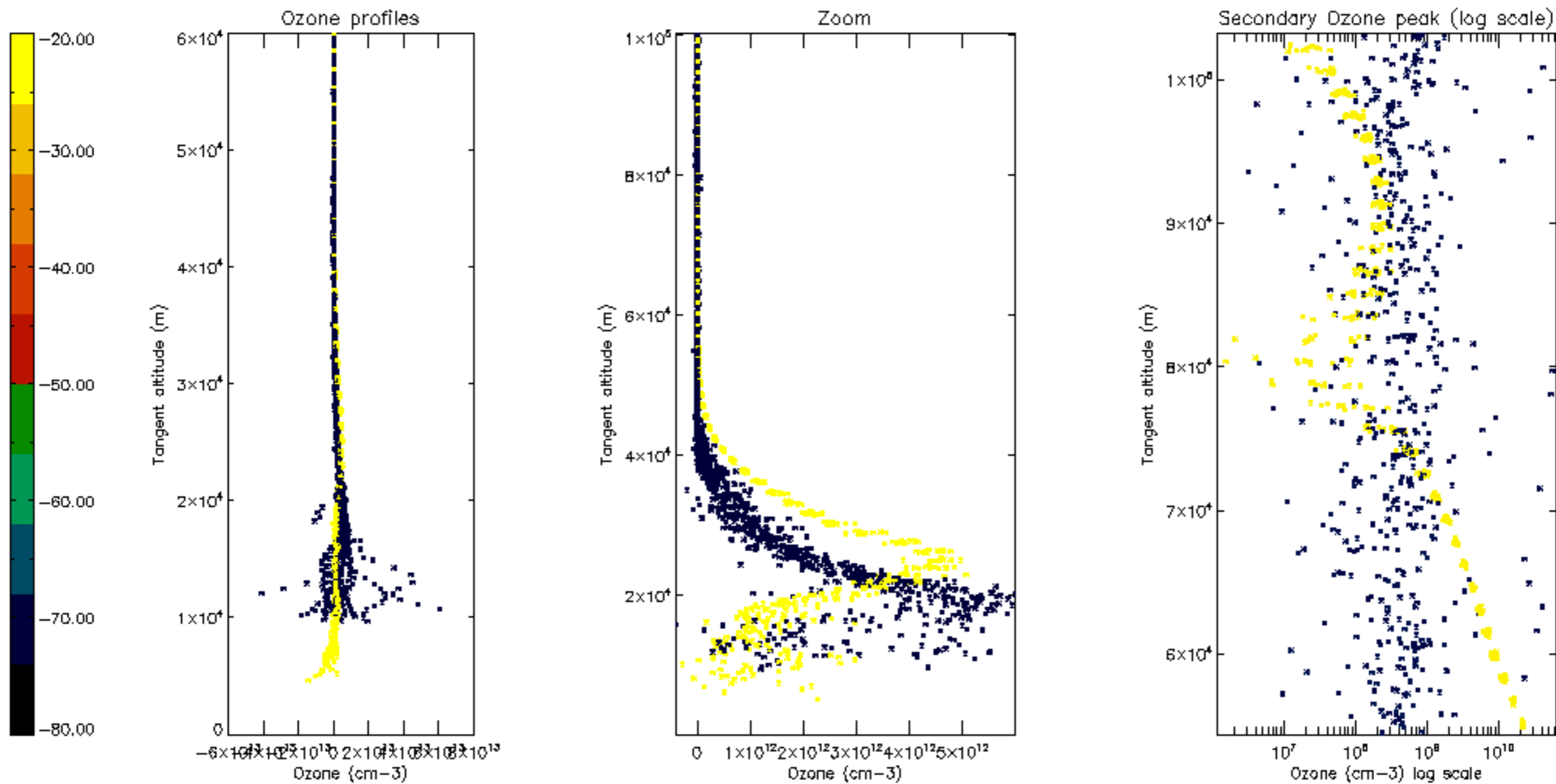


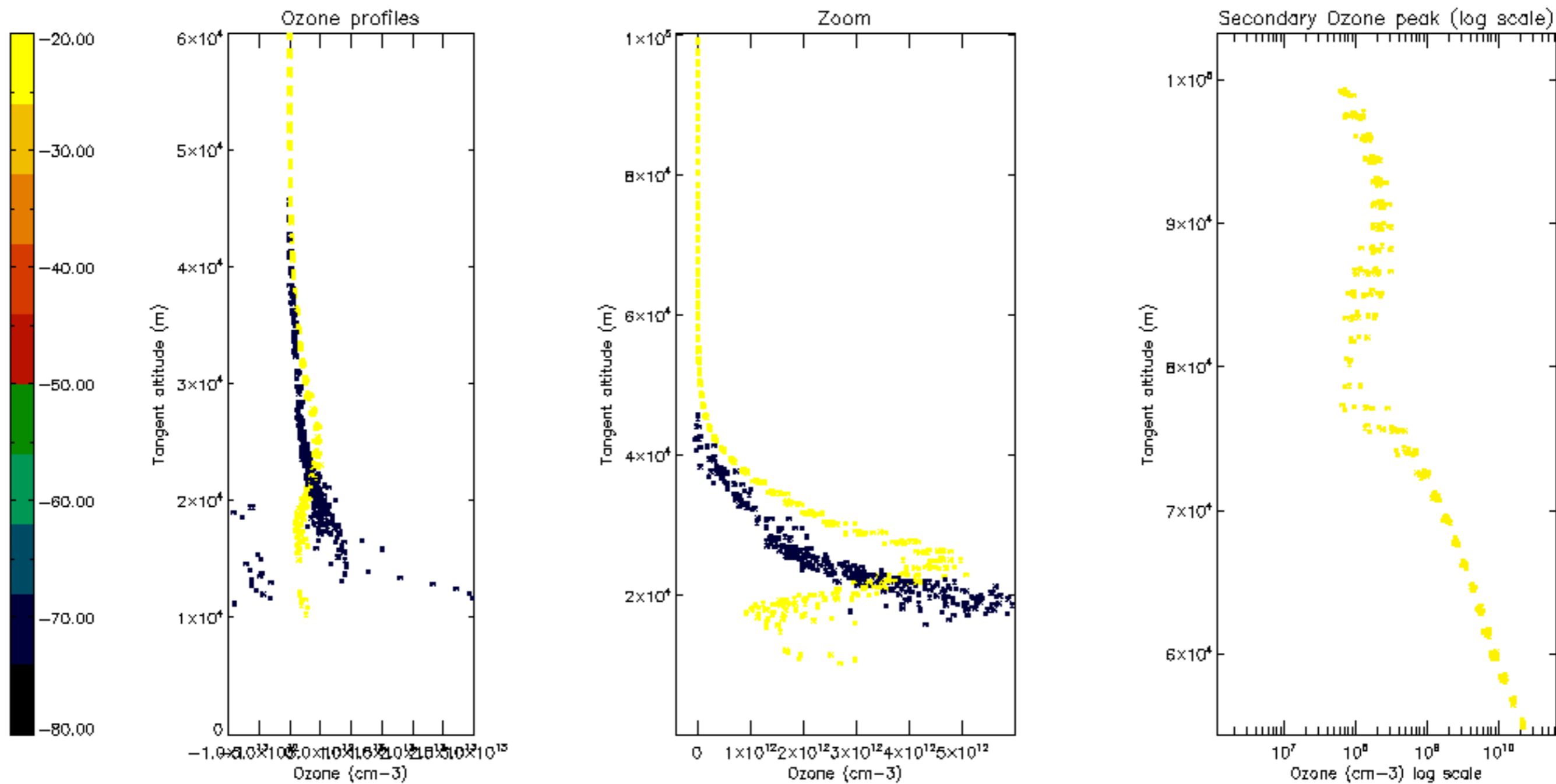
Percentage of star falling outside central band per profile

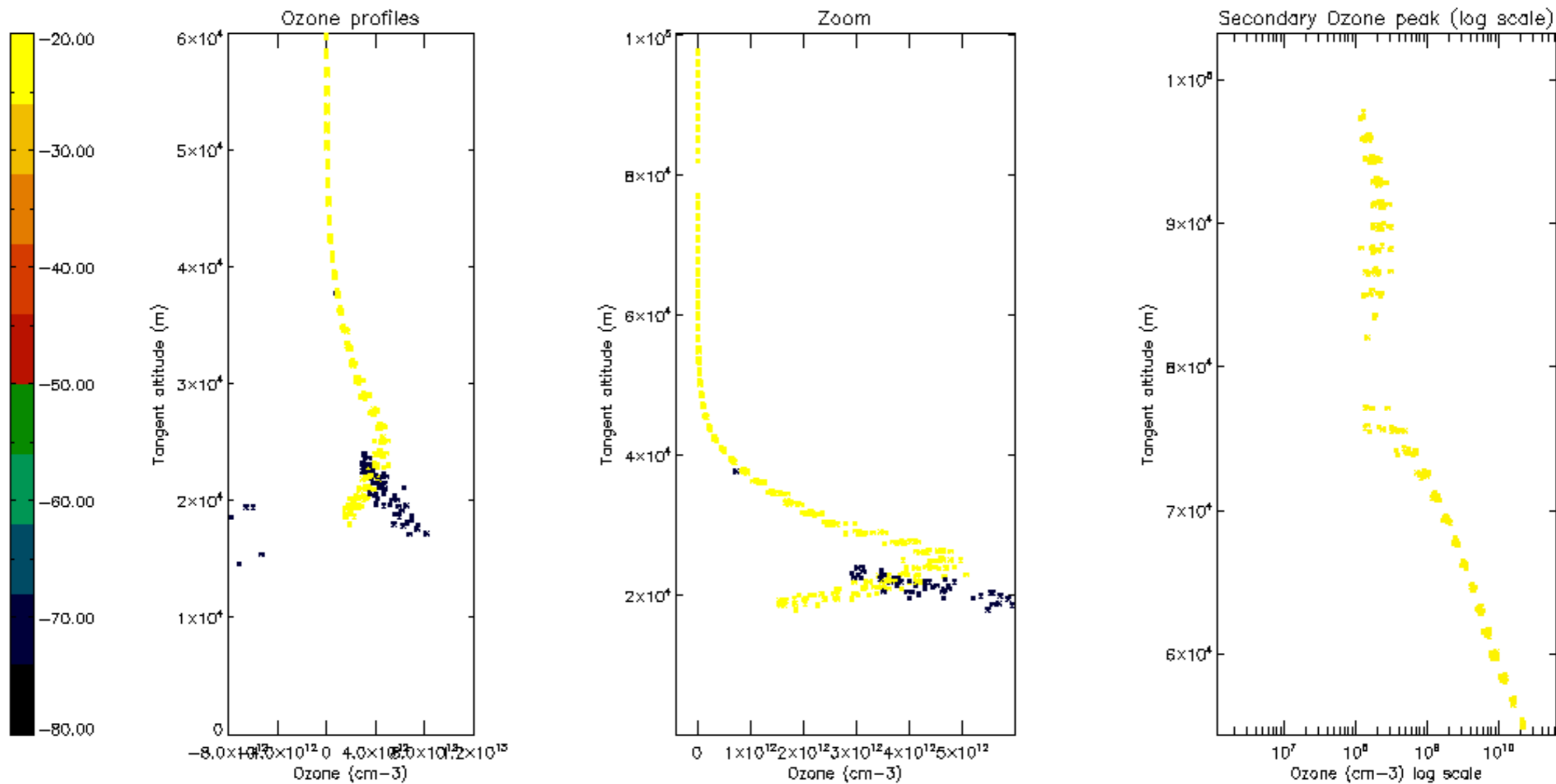


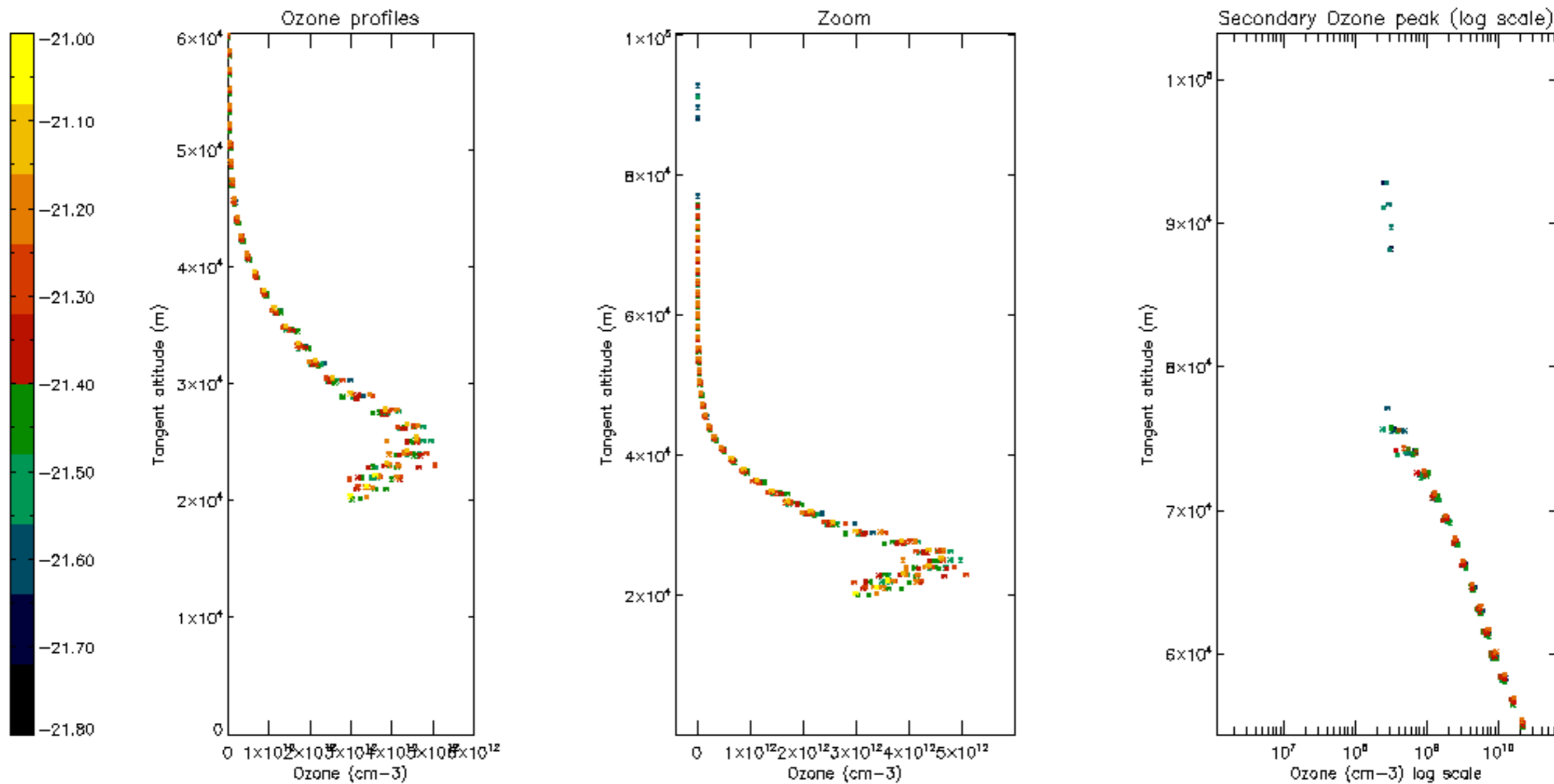
Percentage of saturation errors per profile

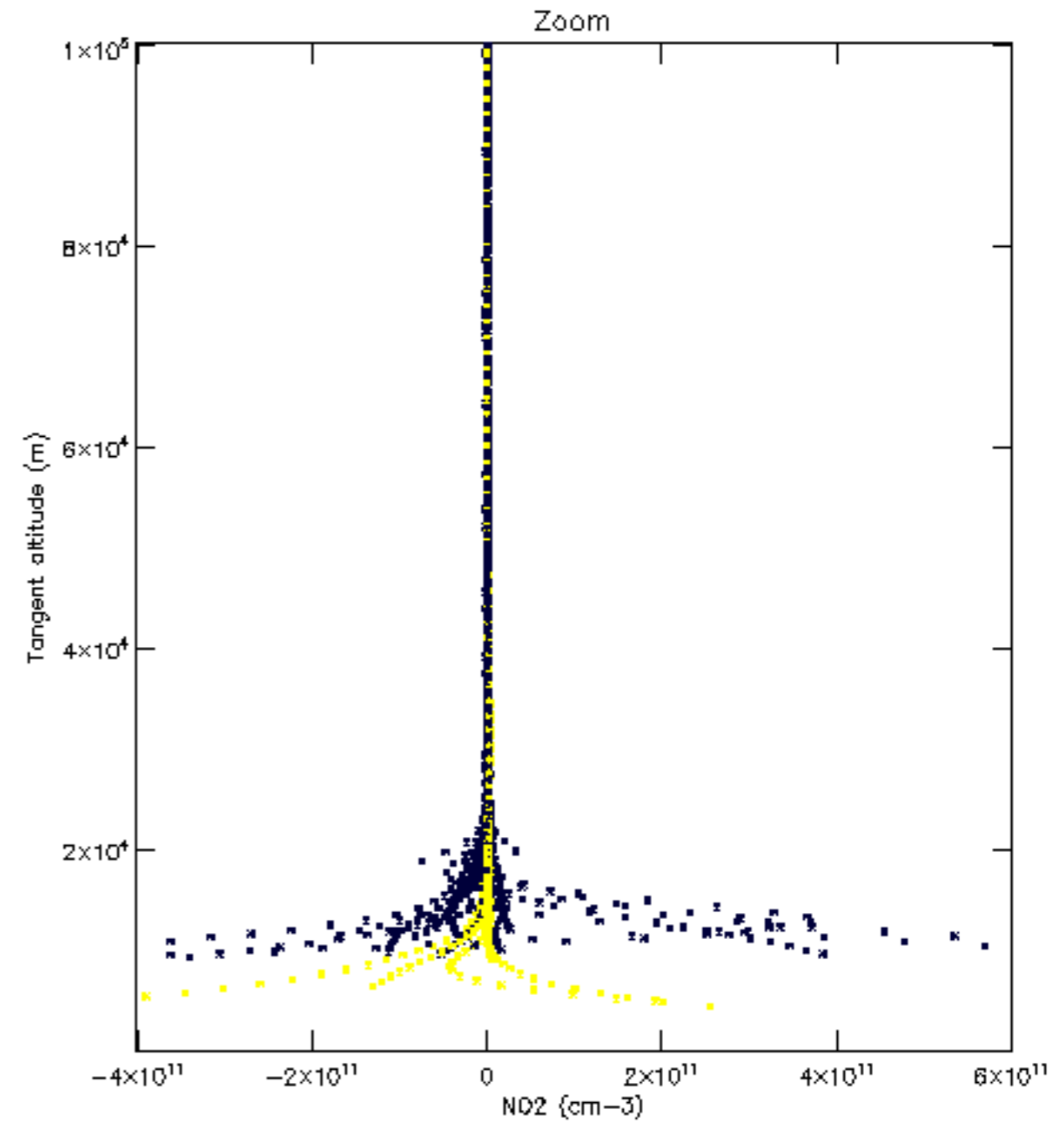
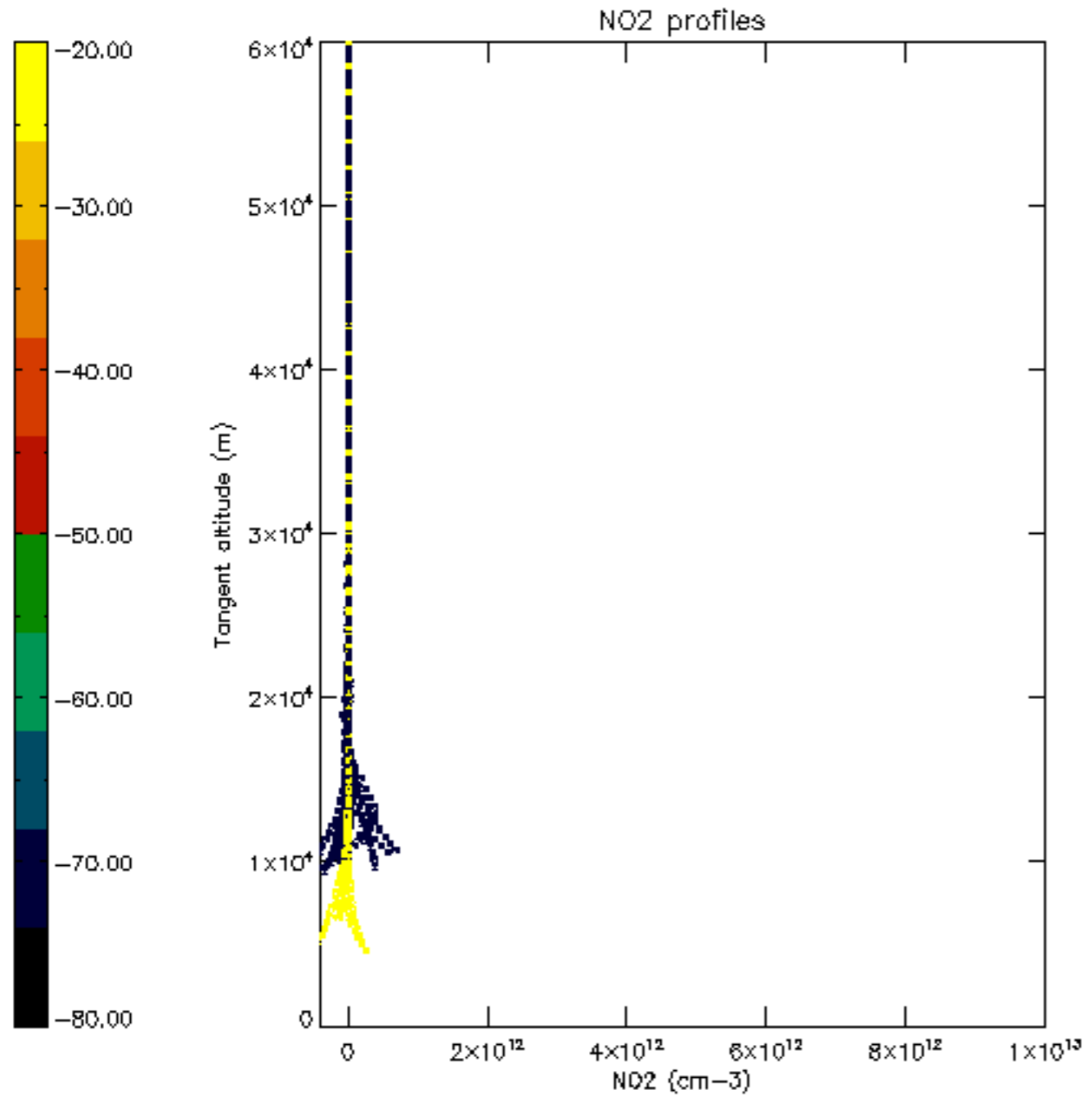


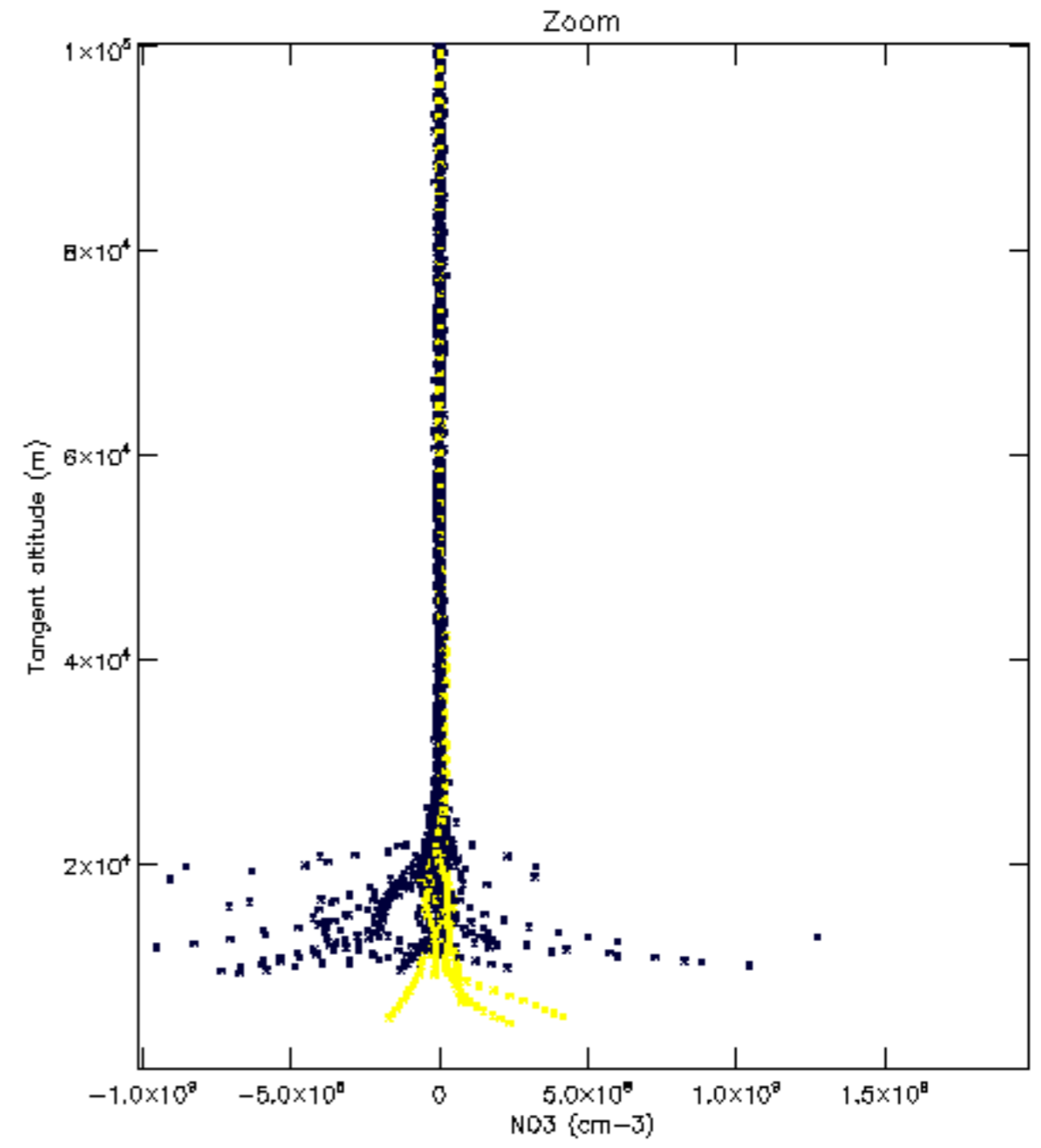
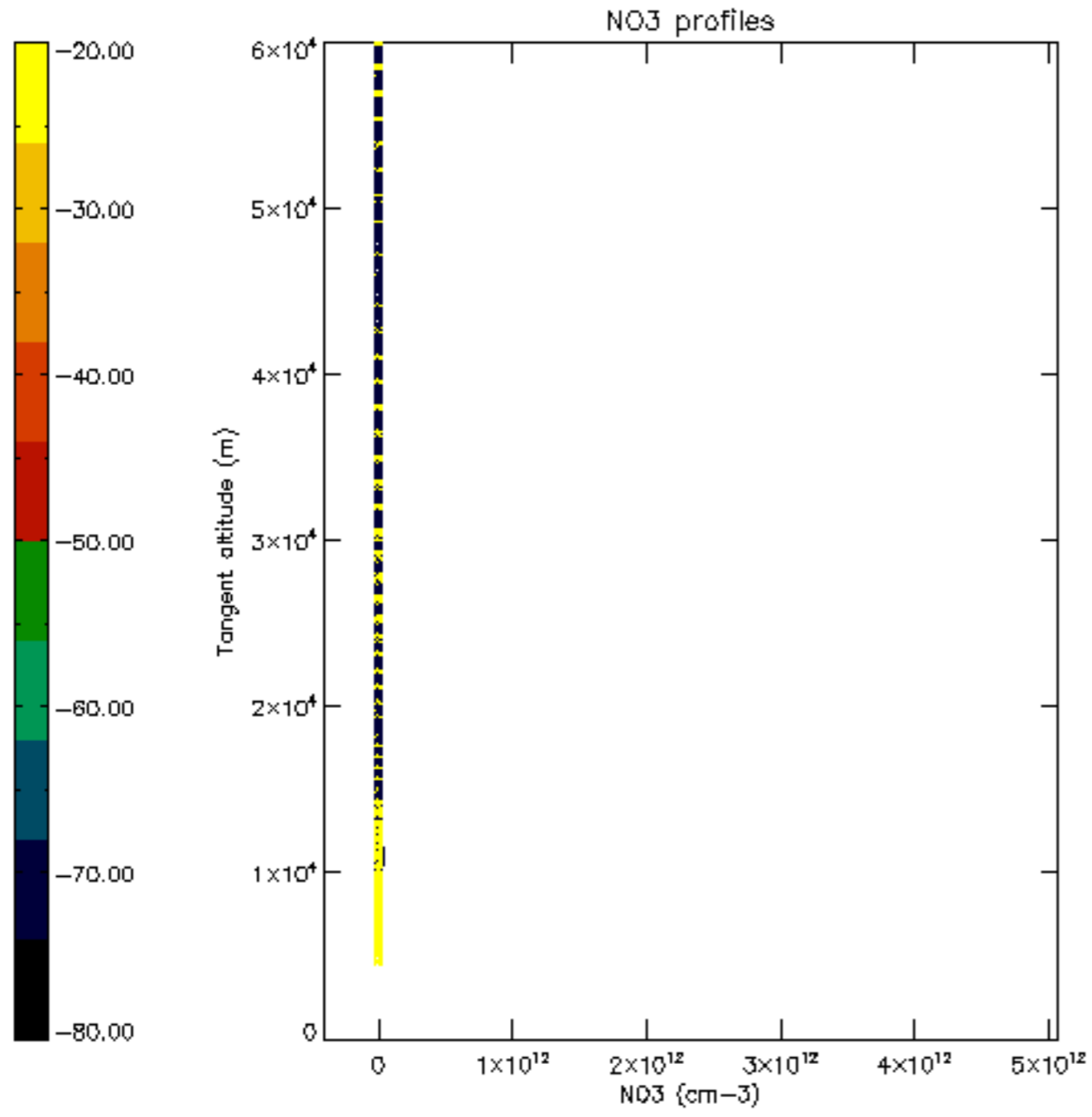


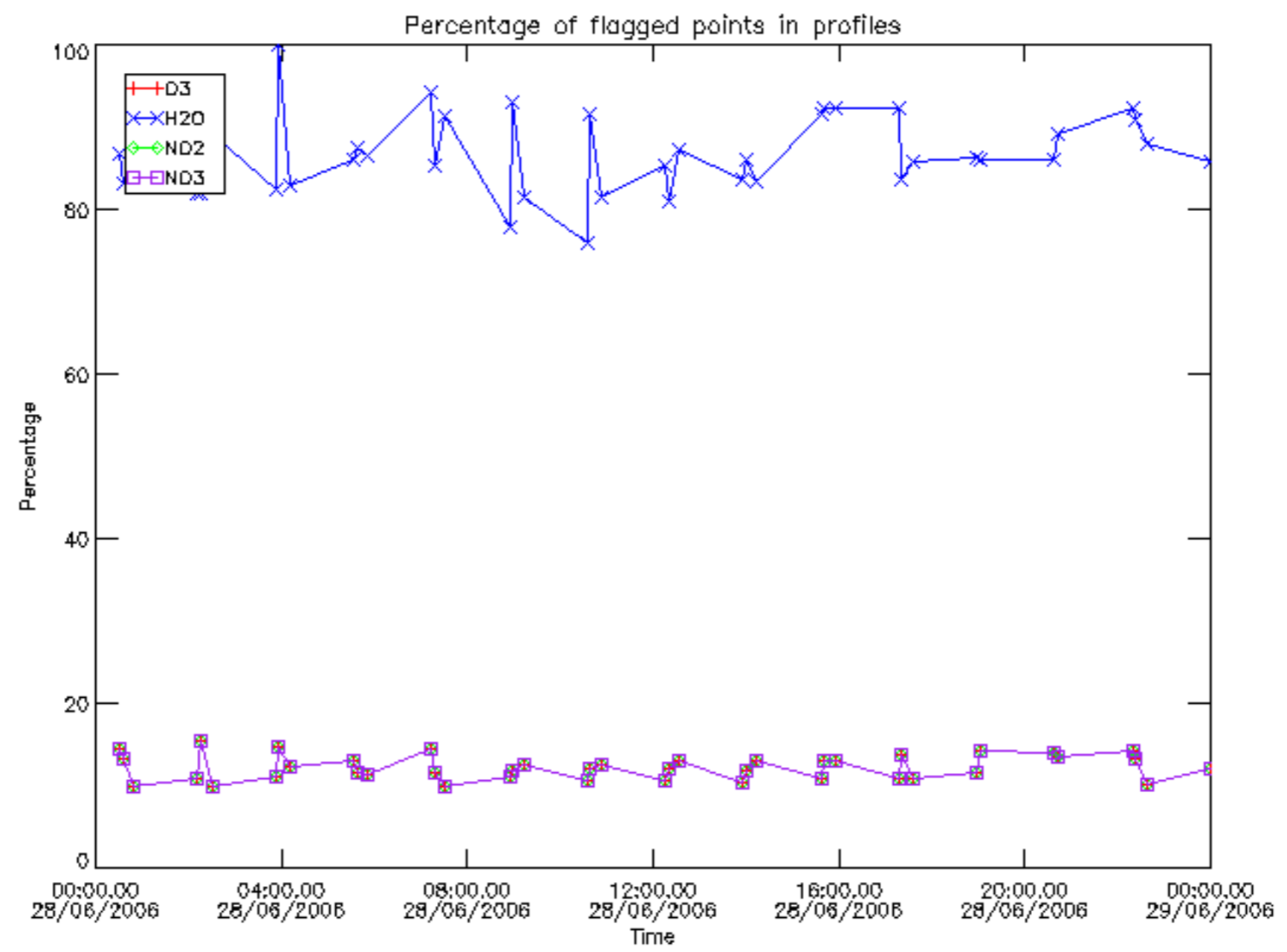




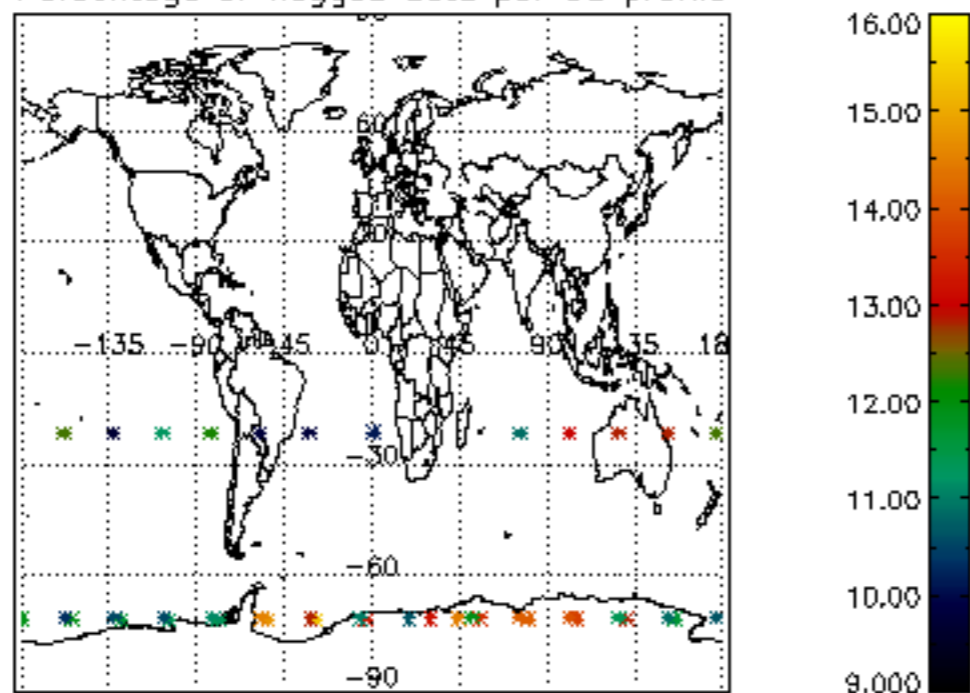




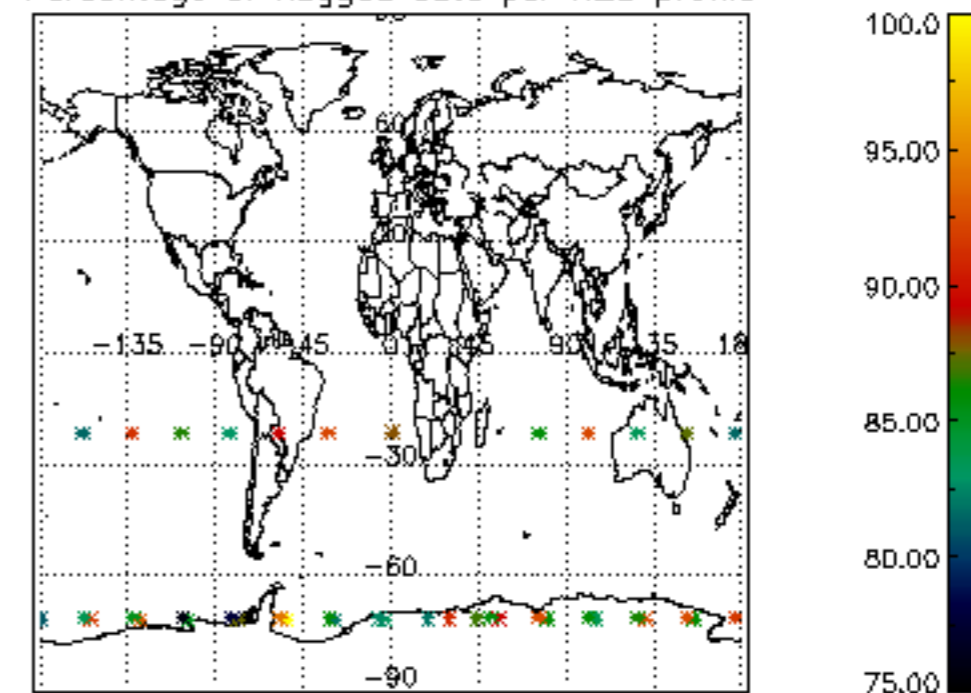




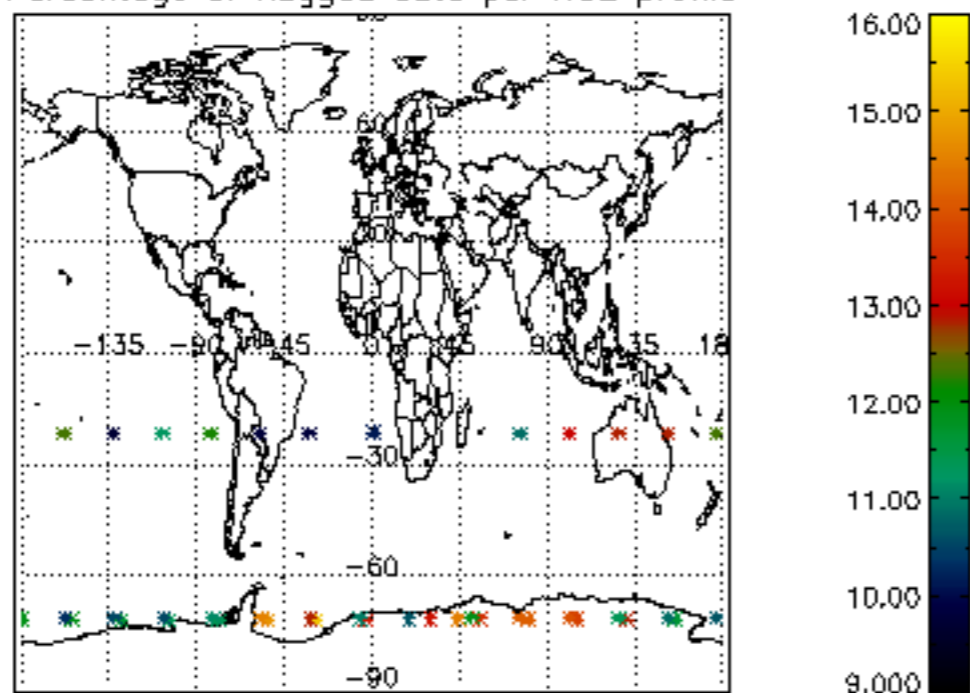
Percentage of flagged data per D3 profile



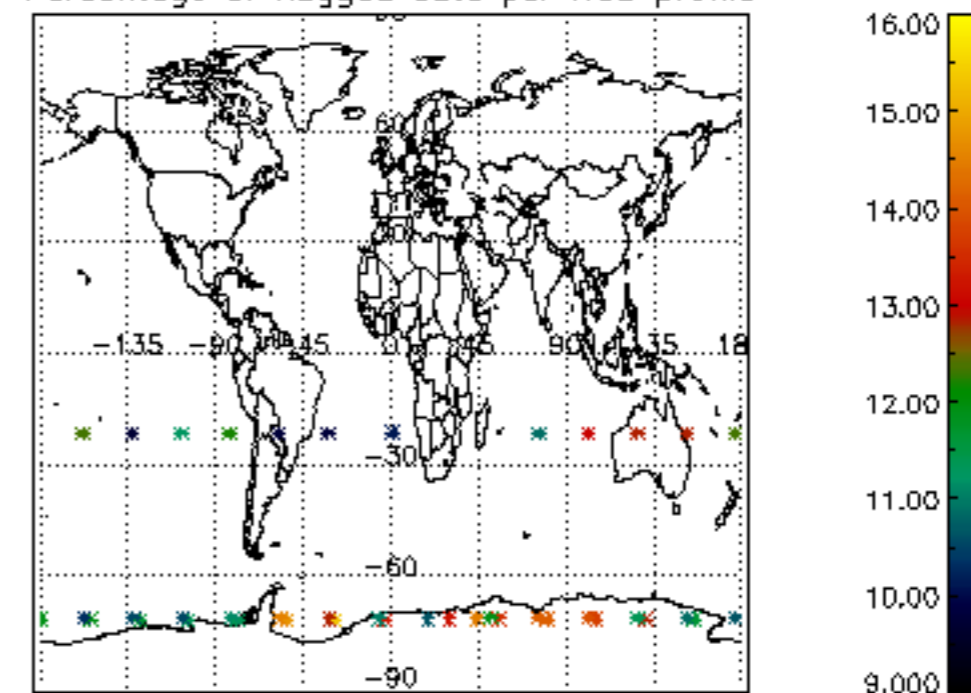
Percentage of flagged data per H2O profile

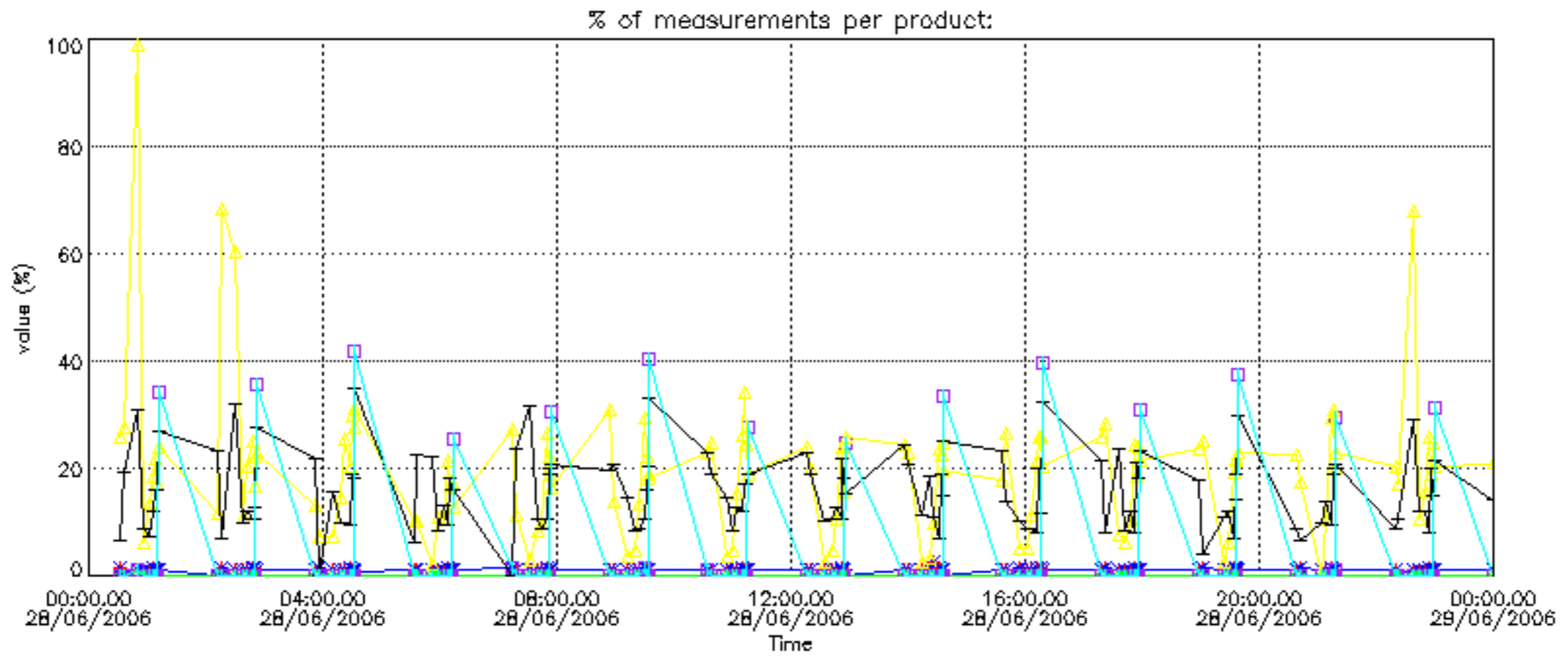


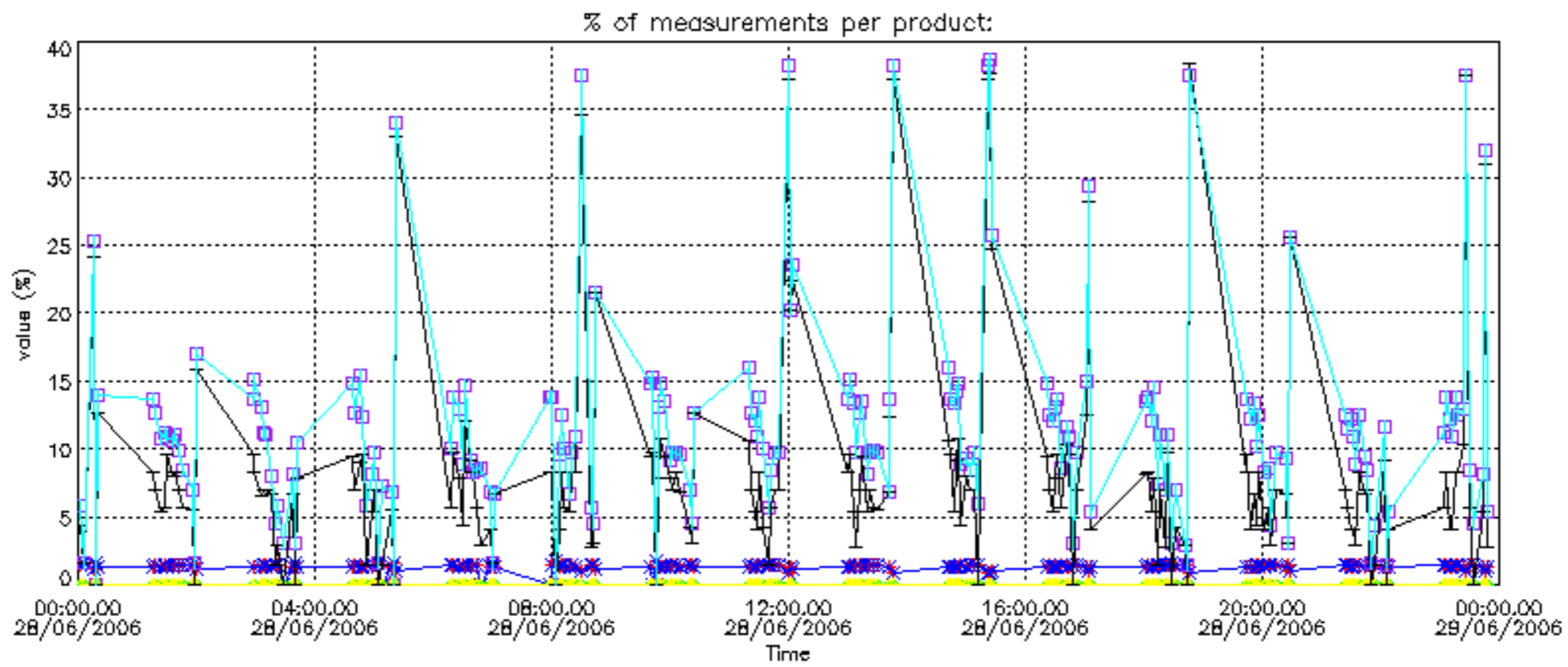
Percentage of flagged data per NO2 profile



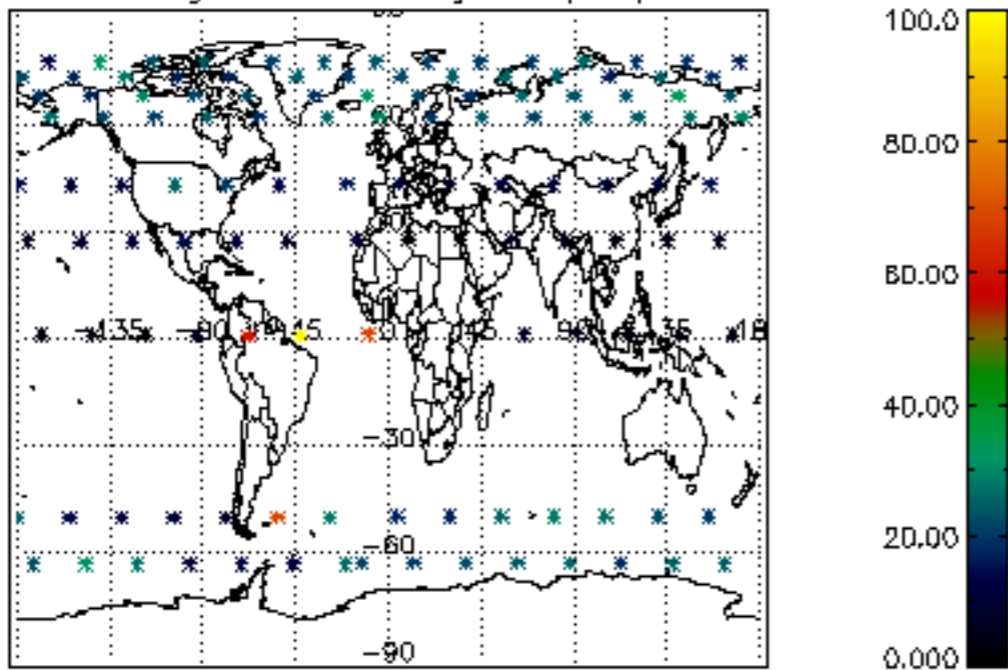
Percentage of flagged data per NO3 profile



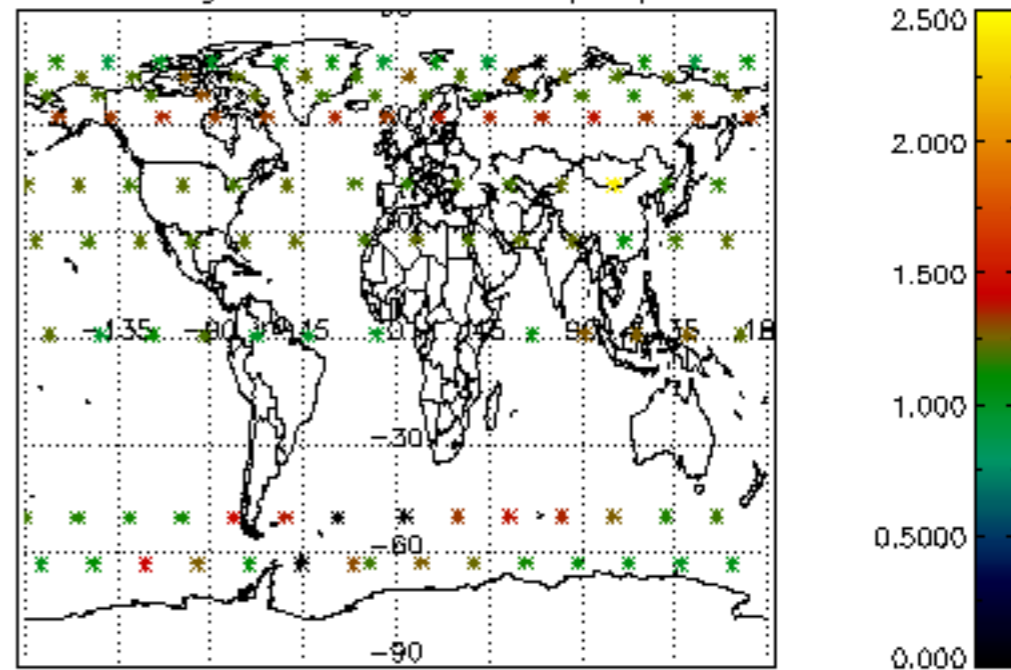




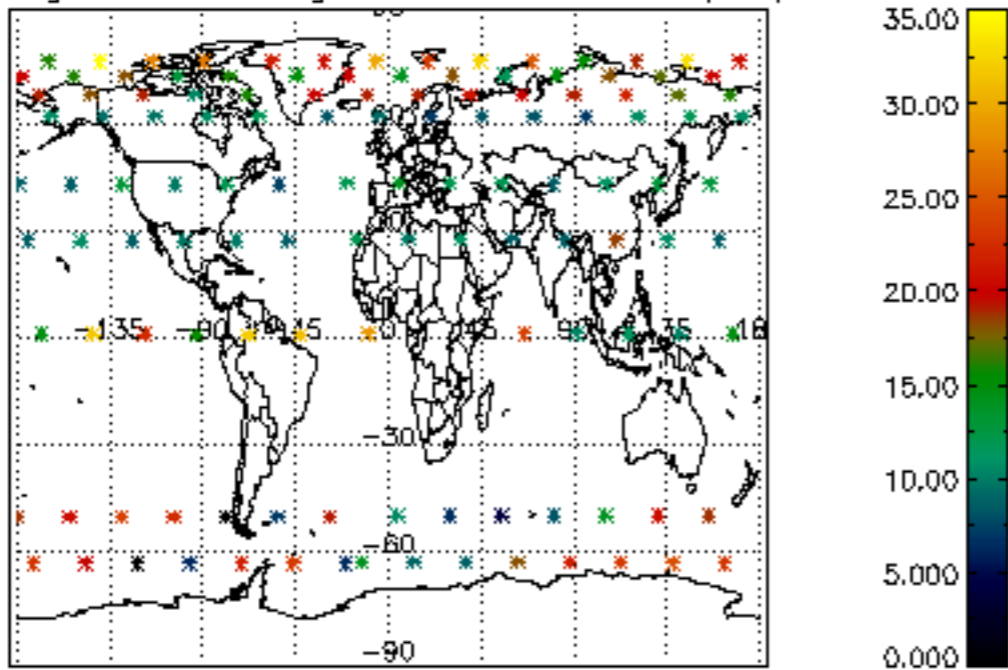
Percentage of cosmic ray hits per profile



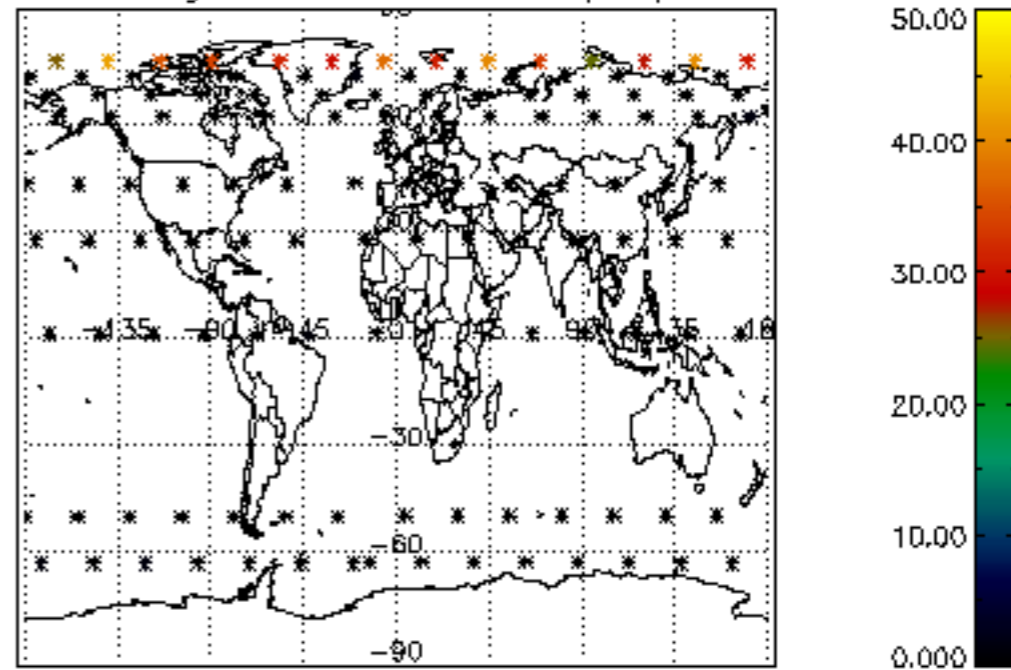
Percentage of datation errors per profile



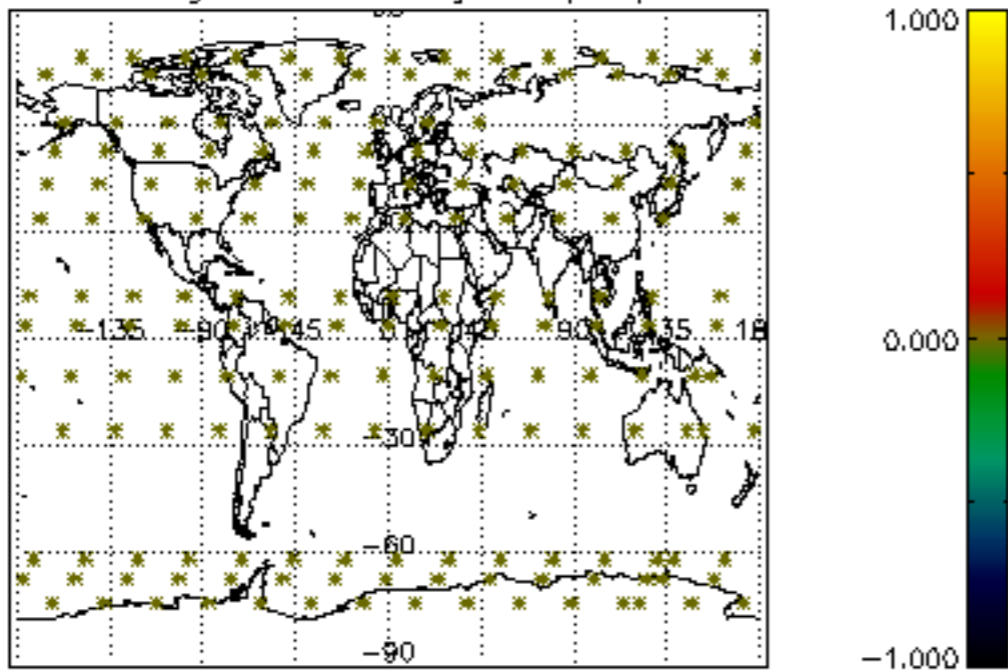
Percentage of star falling outside central band per profile



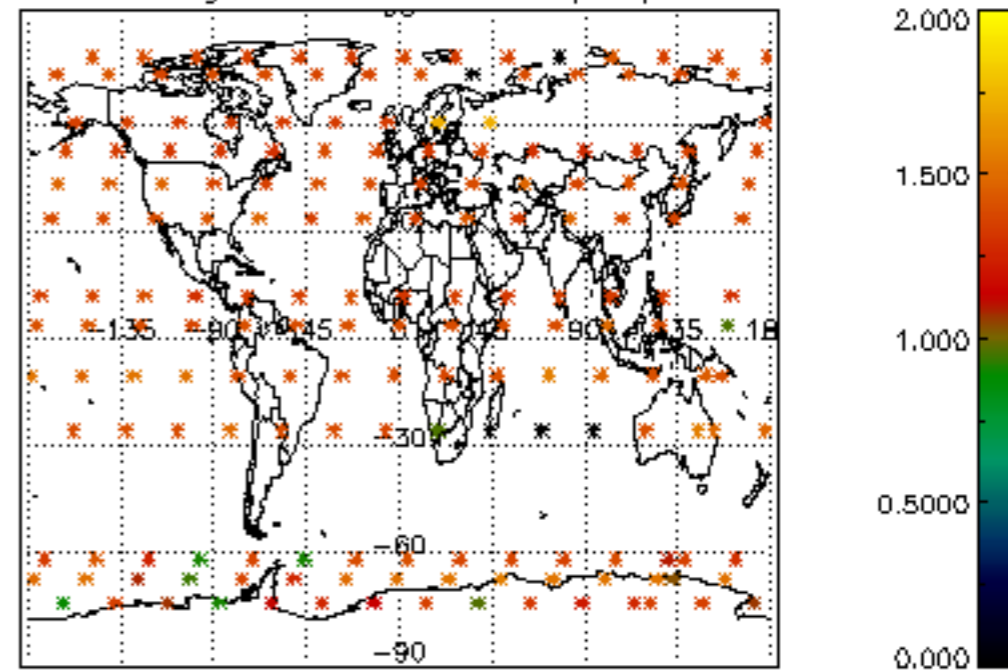
Percentage of saturation errors per profile



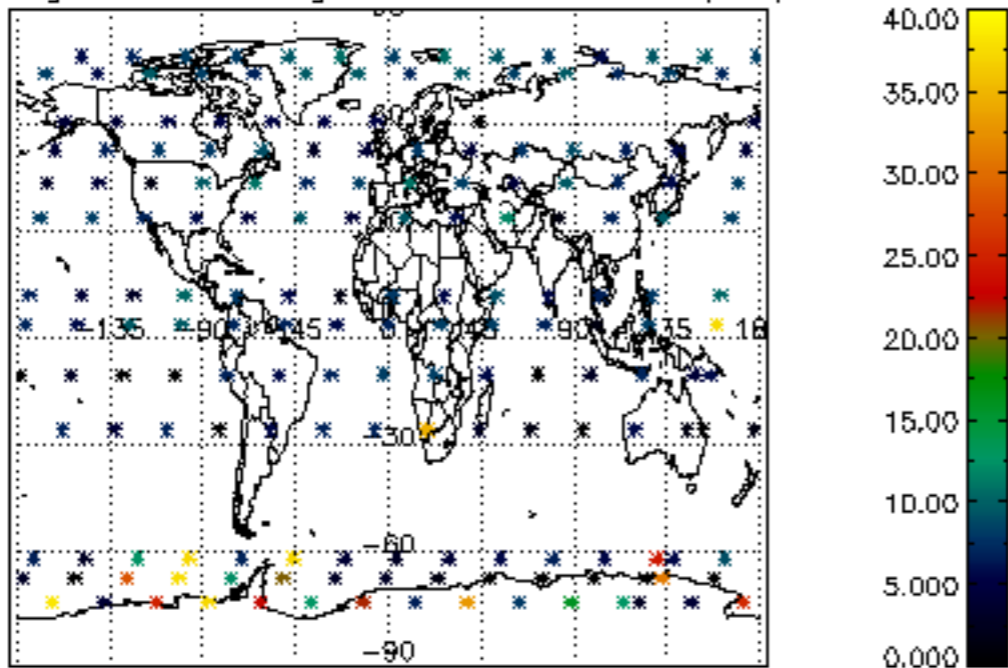
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

