

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	23APR2013 22:20:35
Data source version	GOMOS/6.01
Start time of products	25-05-2006 (25MAY2006 00:00:00)
Stop time of products	26-05-2006 (26MAY2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	299
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

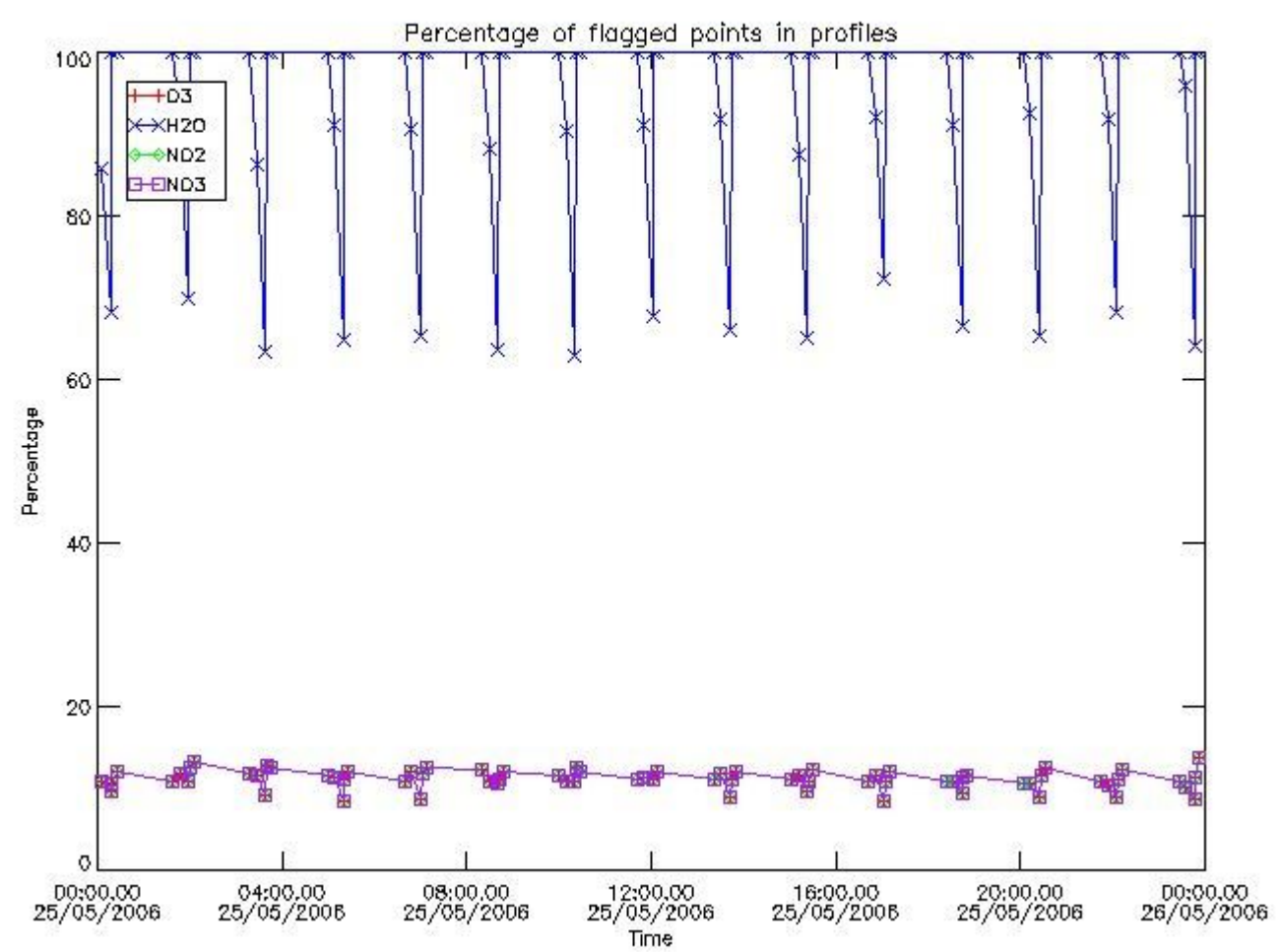
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060525_000553_000000472048_00030_22128_0224.N1	25-MAY-2006 00:05:53	Dark	46.500	52	16Bet Cet	2.0370	4500.0	93	22128	No
2	GOM_NL__2PRFIN20060525_001727_000000592048_00030_22128_0225.N1	25-MAY-2006 00:17:27	Dark	58.500	63	Bet Gru	2.1500	2800.0	117	22128	No
3	GOM_NL__2PRFIN20060525_001909_000000532048_00031_22129_0424.N1	25-MAY-2006 00:19:09	Dark	53.000	31	Alp Gru	1.7340	15200.	106	22129	No
4	GOM_NL__2PRFIN20060525_002429_000000422048_00031_22129_0425.N1	25-MAY-2006 00:24:29	Dark	42.000	45	Alp Pav	1.9400	26000.	84	22129	No
5	GOM_NL__2PRFIN20060525_003111_000000412048_00031_22129_0426.N1	25-MAY-2006 00:31:11	Straylight	41.000	141	Bet Ara	2.8400	4600.0	82	22129	No
6	GOM_NL__2PRFIN20060525_003359_000000492048_00031_22129_0427.N1	25-MAY-2006 00:33:59	Straylight	48.500	40	The Sco	1.8590	7100.0	97	22129	No
7	GOM_NL__2PRFIN20060525_003549_000000512048_00031_22129_0428.N1	25-MAY-2006 00:35:49	Straylight	50.500	25	35Lam Sco	1.6200	28000.	101	22129	No
8	GOM_NL__2PRFIN20060525_003749_000000492048_00031_22129_0429.N1	25-MAY-2006 00:37:49	Twilight_stray	48.500	75	26Eps Sco	2.2910	4250.0	97	22129	No
9	GOM_NL__2PRFIN20060525_004038_000000582048_00031_22129_0430.N1	25-MAY-2006 00:40:38	Bright	57.500	16	21Alp Sco	1.0200	3000.0	115	22129	No
10	GOM_NL__2PRFIN20060525_004300_000000412048_00031_22129_0431.N1	25-MAY-2006 00:43:00	Bright	41.000	97	8Bet1Sco	2.5610	30000.	82	22129	No
11	GOM_NL__2PRFIN20060525_004629_000000352048_00031_22129_0432.N1	25-MAY-2006 00:46:29	Bright	35.000	104	27Bet Lib	2.6140	13100.	70	22129	No
12	GOM_NL__2PRFIN20060525_004811_000000432048_00031_22129_0433.N1	25-MAY-2006 00:48:11	Bright	42.500	120	1Del Oph	2.7340	3200.0	85	22129	No
13	GOM_NL__2PRFIN20060525_005115_000000392048_00031_22129_0434.N1	25-MAY-2006 00:51:15	Bright	39.000	102	24Alp Ser	2.6000	4250.0	78	22129	No
14	GOM_NL__2PRFIN20060525_005702_000000382048_00031_22129_0435.N1	25-MAY-2006 00:57:02	Bright	37.500	83		2.3780	11000.	75	22129	No
15	GOM_NL__2PRFIN20060525_010811_000000382048_00031_22129_0436.N1	25-MAY-2006 01:08:11	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	22129	No
16	GOM_NL__2PRFIN20060525_011024_000000362048_00031_22129_0437.N1	25-MAY-2006 01:10:24	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	22129	No
17	GOM_NL__2PRFIN20060525_012309_000000522048_00031_22129_0438.N1	25-MAY-2006 01:23:09	Bright	52.000	76	27Gam Cas	2.3000	30000.	104	22129	No
18	GOM_NL__2PRFIN20060525_012421_000000552048_00031_22129_0439.N1	25-MAY-2006 01:24:21	Bright	55.000	68	18Alp Cas	2.2250	4500.0	110	22129	No
19	GOM_NL__2PRFIN20060525_013036_000000392048_00031_22129_0440.N1	25-MAY-2006 01:30:36	Bright	39.000	53	43Bet And	2.0480	3300.0	78	22129	No
20	GOM_NL__2PRFIN20060525_013309_000000472048_00031_22129_0441.N1	25-MAY-2006 01:33:09	Twilight_stray	47.000	58	21Alp And	2.0730	11000.	94	22129	No
21	GOM_NL__2PRFIN20060525_013740_000000472048_00031_22129_0442.N1	25-MAY-2006 01:37:40	Dark	47.000	140	88Gam Peg	2.8340	26000.	94	22129	No
22	GOM_NL__2PRFIN20060525_014630_000000442048_00031_22129_0443.N1	25-MAY-2006 01:46:30	Dark	43.500	52	16Bet Cet	2.0370	4500.0	87	22129	No
23	GOM_NL__2PRFIN20060525_015803_000000472048_00032_22130_0444.N1	25-MAY-2006 01:58:03	Dark	47.000	63	Bet Gru	2.1500	2800.0	94	22130	No
24	GOM_NL__2PRFIN20060525_015946_000000452048_00032_22130_0205.N1	25-MAY-2006 01:59:46	Dark	44.500	31	Alp Gru	1.7340	15200.	89	22130	No
25	GOM_NL__2PRFIN20060525_020506_000000422048_00032_22130_0206.N1	25-MAY-2006 02:05:06	Dark	42.000	45	Alp Pav	1.9400	26000.	84	22130	No
26	GOM_NL__2PRFIN20060525_021147_000000402048_00032_22130_0207.N1	25-MAY-2006 02:11:47	Straylight	40.000	141	Bet Ara	2.8400	4600.0	80	22130	No
27	GOM_NL__2PRFIN20060525_021435_000000522048_00032_22130_0208.N1	25-MAY-2006 02:14:35	Straylight	51.500	40	The Sco	1.8590	7100.0	103	22130	No
28	GOM_NL__2PRFIN20060525_021626_000000472048_00032_22130_0209.N1	25-MAY-2006 02:16:26	Straylight	46.500	25	35Lam Sco	1.6200	28000.	93	22130	No
29	GOM_NL__2PRFIN20060525_021825_000000502048_00032_22130_0210.N1	25-MAY-2006 02:18:25	Twilight_stray	50.000	75	26Eps Sco	2.2910	4250.0	100	22130	No
30	GOM_NL__2PRFIN20060525_022115_000000562048_00032_22130_0211.N1	25-MAY-2006 02:21:15	Bright	56.000	16	21Alp Sco	1.0200	3000.0	112	22130	No
31	GOM_NL__2PRFIN20060525_022336_000000412048_00032_22130_0212.N1	25-MAY-2006 02:23:36	Bright	40.500	97	8Bet1Sco	2.5610	30000.	81	22130	No
32	GOM_NL__2PRFIN20060525_022705_000000362048_00032_22130_0213.N1	25-MAY-2006 02:27:05	Bright	36.000	104	27Bet Lib	2.6140	13100.	72	22130	No
33	GOM_NL__2PRFIN20060525_022847_000000432048_00032_22130_0214.N1	25-MAY-2006 02:28:47	Bright	42.500	120	1Del Oph	2.7340	3200.0	85	22130	No
34	GOM_NL__2PRFIN20060525_023151_000000392048_00032_22130_0215.N1	25-MAY-2006 02:31:51	Bright	39.000	102	24Alp Ser	2.6000	4250.0	78	22130	No
35	GOM_NL__2PRFIN20060525_023738_000000362048_00032_22130_0216.N1	25-MAY-2006 02:37:38	Bright	36.000	83		2.3780	11000.	72	22130	No
36	GOM_NL__2PRFIN20060525_024847_000000372048_00032_22130_0217.N1	25-MAY-2006 02:48:47	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	22130	No
37	GOM_NL__2PRFIN20060525_025059_000000362048_00032_22130_0218.N1	25-MAY-2006 02:50:59	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	22130	No
38	GOM_NL__2PRFIN20060525_030345_000000342048_00032_22130_0219.N1	25-MAY-2006 03:03:45	Bright	34.000	76	27Gam Cas	2.3000	30000.	68	22130	No
39	GOM_NL__2PRFIN20060525_030457_000000352048_00032_22130_0220.N1	25-MAY-2006 03:04:57	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	22130	No
40	GOM_NL__2PRFIN20060525_031112_000000402048_00032_22130_0221.N1	25-MAY-2006 03:11:12	Bright	39.500	53	43Bet And	2.0480	3300.0	79	22130	No
41	GOM_NL__2PRFIN20060525_031345_000000492048_00032_22130_0222.N1	25-MAY-2006 03:13:45	Twilight_stray	48.500	58	21Alp And	2.0730	11000.	97	22130	No
42	GOM_NL__2PRFIN20060525_031816_000000482048_00032_22130_0223.N1	25-MAY-2006 03:18:16	Dark	47.500	140	88Gam Peg	2.8340	26000.	95	22130	No

279	GOM_NL__2PRFIN20060525_222153_000000482048_00044_22142_0229.N1	25-MAY-2006 22:21:53	Straylight	47.500	40	The Sco	1.8590	7100.0	95	22142	No
280	GOM_NL__2PRFIN20060525_222343_000000492048_00044_22142_0230.N1	25-MAY-2006 22:23:43	Straylight	49.000	25	35Lam Sco	1.6200	28000.	98	22142	No
281	GOM_NL__2PRFIN20060525_222541_000000492048_00044_22142_0231.N1	25-MAY-2006 22:25:41	Tw_i_and_stray	49.000	75	26Eps Sco	2.2910	4250.0	98	22142	No
282	GOM_NL__2PRFIN20060525_222750_000000432048_00044_22142_0232.N1	25-MAY-2006 22:27:50	Tw_i_and_stray	42.500	136	23Tau Sco	2.8220	30000.	85	22142	No
283	GOM_NL__2PRFIN20060525_223050_000000382048_00044_22142_0233.N1	25-MAY-2006 22:30:50	Bright	37.500	97	8Bet1Sco	2.5610	30000.	75	22142	No
284	GOM_NL__2PRFIN20060525_223417_000000372048_00044_22142_0234.N1	25-MAY-2006 22:34:17	Bright	37.000	104	27Bet Lib	2.6140	13100.	74	22142	No
285	GOM_NL__2PRFIN20060525_223557_000000422048_00044_22142_0235.N1	25-MAY-2006 22:35:57	Bright	42.000	120	1Del Oph	2.7340	3200.0	84	22142	No
286	GOM_NL__2PRFIN20060525_223901_000000392048_00044_22142_0236.N1	25-MAY-2006 22:39:01	Bright	38.500	102	24Alp Ser	2.6000	4250.0	77	22142	No
287	GOM_NL__2PRFIN20060525_224505_000000382048_00044_22142_0237.N1	25-MAY-2006 22:45:05	Bright	37.500	67	5Alp CrB	2.2210	11000.	75	22142	No
288	GOM_NL__2PRFIN20060525_225554_000000402048_00044_22142_0238.N1	25-MAY-2006 22:55:54	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	22142	No
289	GOM_NL__2PRFIN20060525_225810_000000372048_00044_22142_0239.N1	25-MAY-2006 22:58:10	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	22142	No
290	GOM_NL__2PRFIN20060525_231055_000000352048_00044_22142_0240.N1	25-MAY-2006 23:10:55	Bright	34.500	76	27Gam Cas	2.3000	30000.	69	22142	No
291	GOM_NL__2PRFIN20060525_231207_000000552048_00044_22142_0241.N1	25-MAY-2006 23:12:07	Bright	55.000	68	18Alp Cas	2.2250	4500.0	110	22142	No
292	GOM_NL__2PRFIN20060525_231824_000000392048_00044_22142_0242.N1	25-MAY-2006 23:18:24	Bright	39.000	53	43Bet And	2.0480	3300.0	78	22142	No
293	GOM_NL__2PRFIN20060525_232059_000000482048_00044_22142_0243.N1	25-MAY-2006 23:20:59	Tw_i_and_stray	47.500	58	21Alp And	2.0730	11000.	95	22142	No
294	GOM_NL__2PRFIN20060525_232532_000000462048_00044_22142_0244.N1	25-MAY-2006 23:25:32	Dark	46.000	140	88Gam Peg	2.8340	26000.	92	22142	No
295	GOM_NL__2PRFIN20060525_233423_000000512048_00044_22142_0245.N1	25-MAY-2006 23:34:23	Dark	50.500	52	16Bet Cet	2.0370	4500.0	101	22142	No
296	GOM_NL__2PRFIN20060525_234600_000000592048_00045_22143_0225.N1	25-MAY-2006 23:46:00	Dark	59.000	63	Bet Gru	2.1500	2800.0	118	22143	No
297	GOM_NL__2PRFIN20060525_234744_000000452048_00045_22143_0226.N1	25-MAY-2006 23:47:44	Dark	45.000	31	Alp Gru	1.7340	15200.	90	22143	No
298	GOM_NL__2PRFIN20060525_235302_000000412048_00045_22143_0227.N1	25-MAY-2006 23:53:02	Dark	41.000	45	Alp Pav	1.9400	26000.	82	22143	No
299	GOM_NL__2PRFIN20060525_235940_000000402048_00045_22143_0228.N1	25-MAY-2006 23:59:40	Straylight	40.000	141	Bet Ara	2.8400	4600.0	80	22143	No

3. Quality information per product

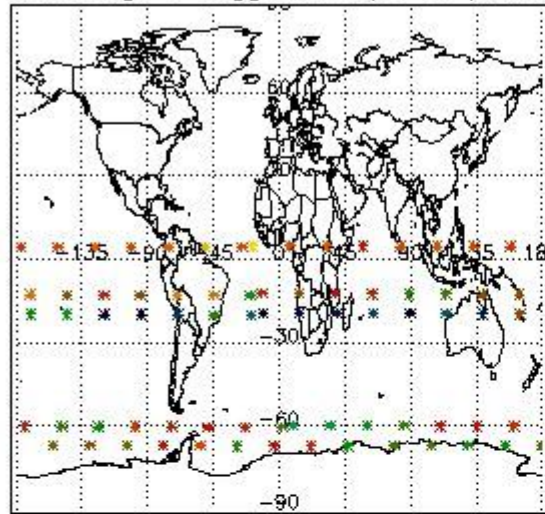
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

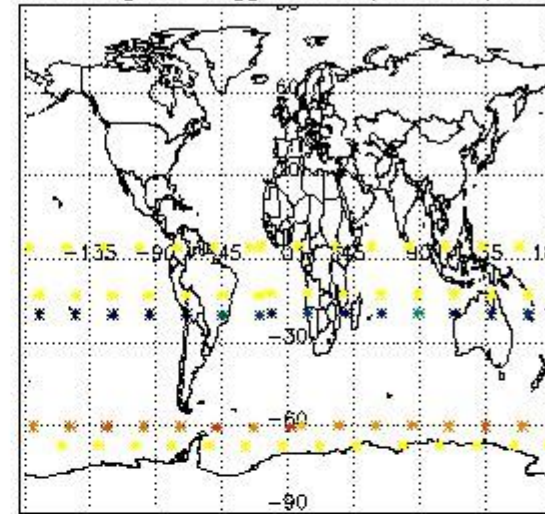


3.2 Plot quality information per product (world map)

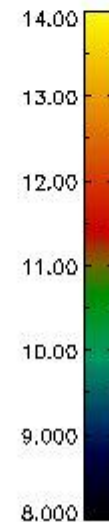
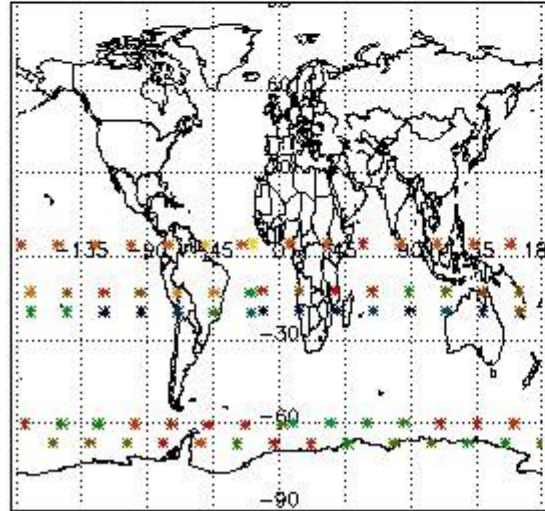
Percentage of flagged data per O3 profile



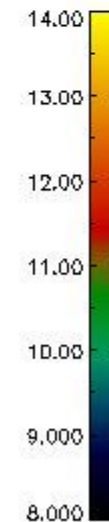
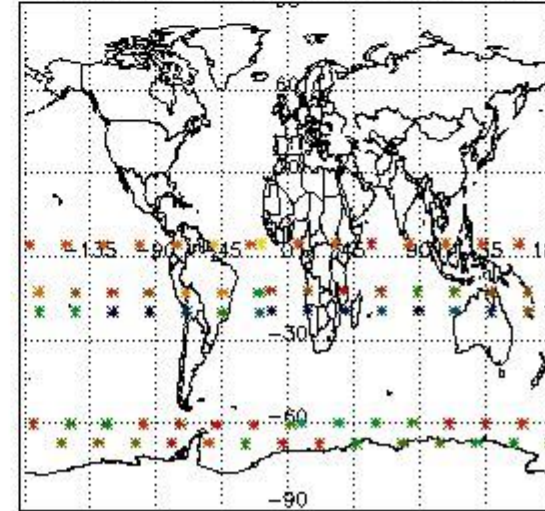
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

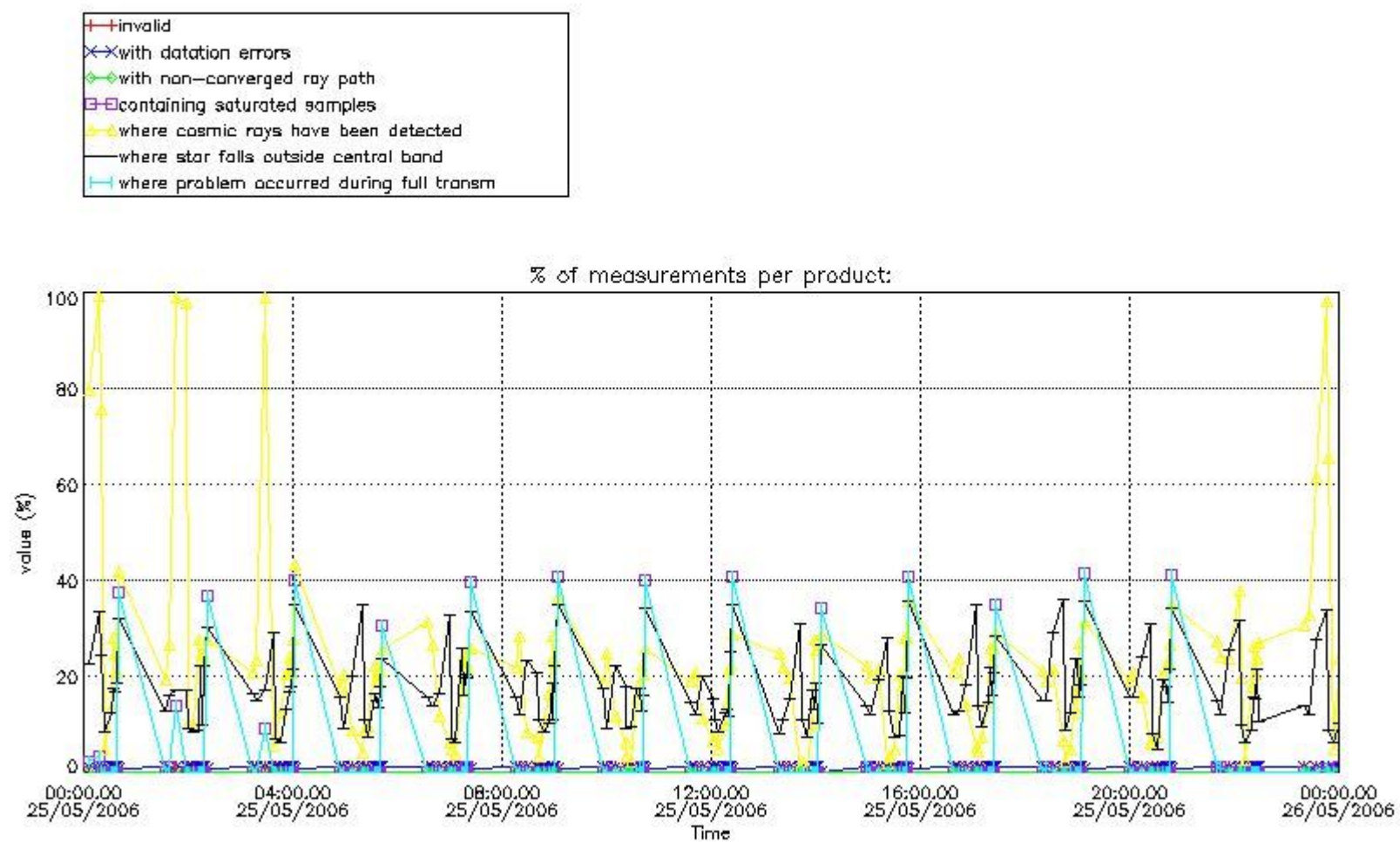


4. Level 1 quality information per product

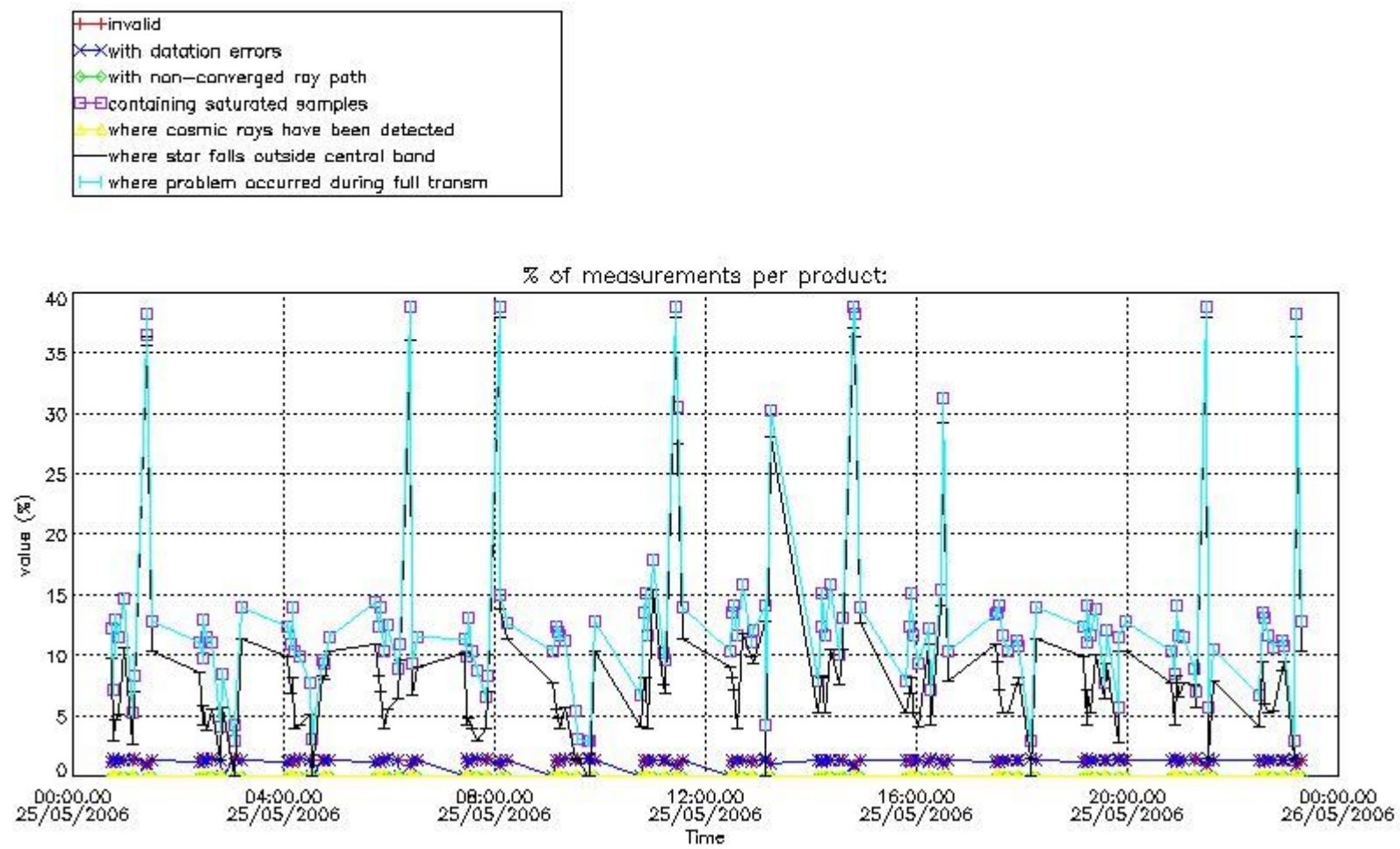
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



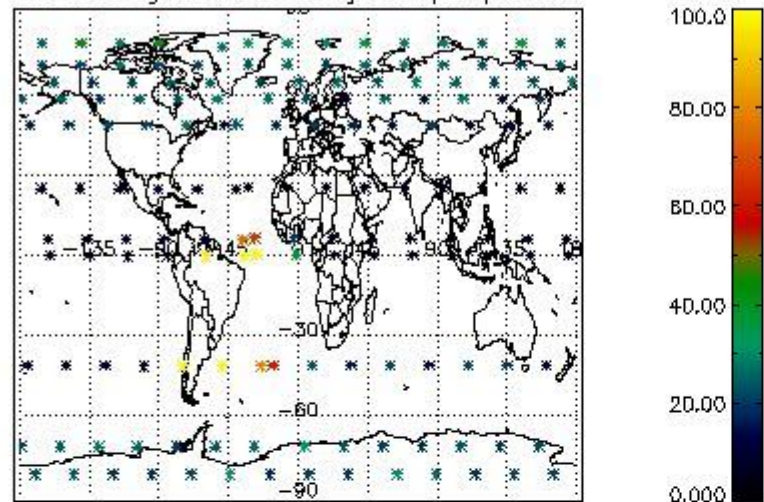
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



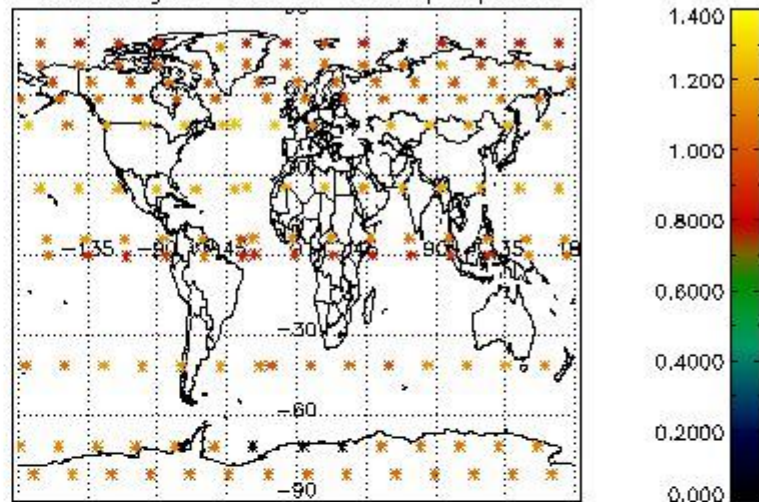
4.2 Plot quality information per product coming from level 1b processing (world map)

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

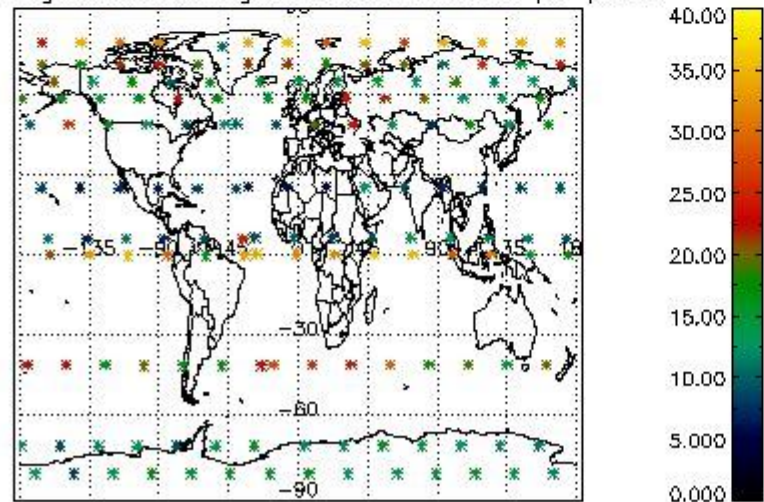
Percentage of cosmic ray hits per profile



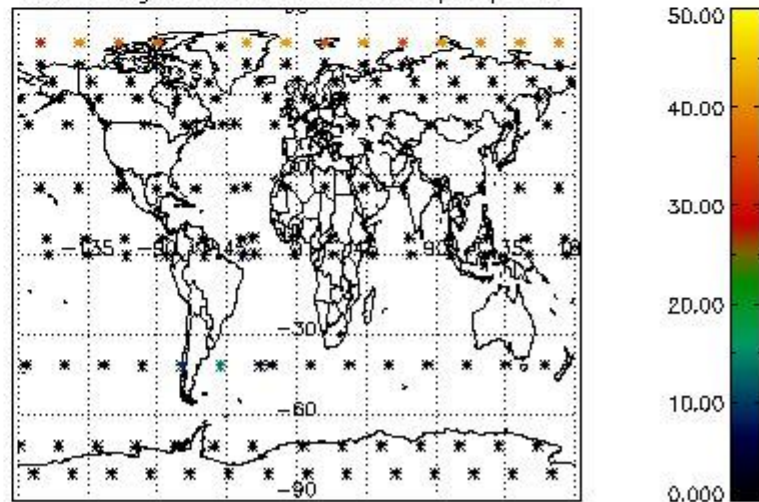
Percentage of datation errors per profile



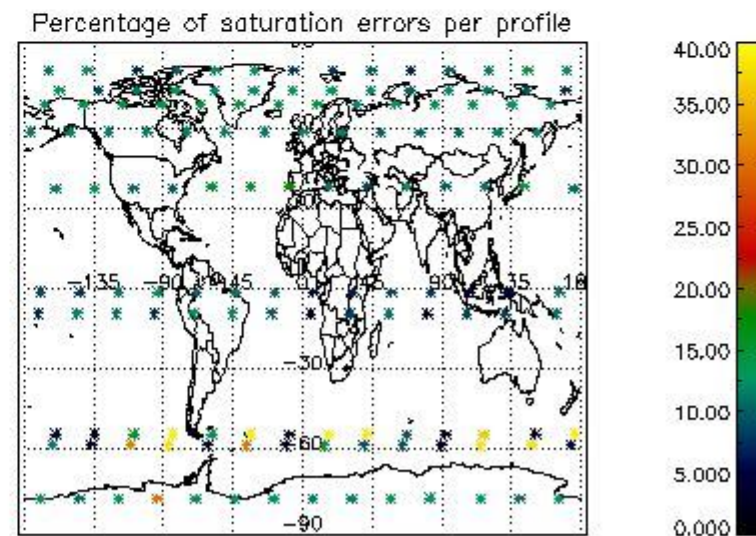
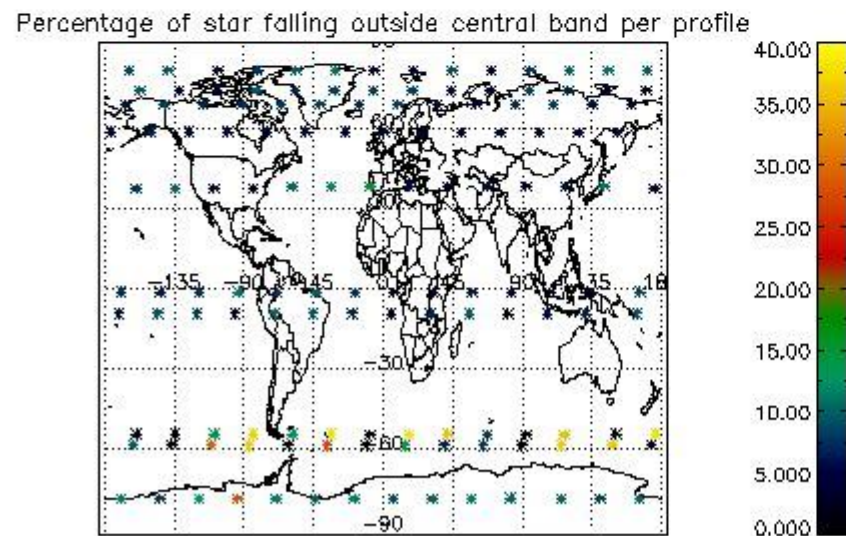
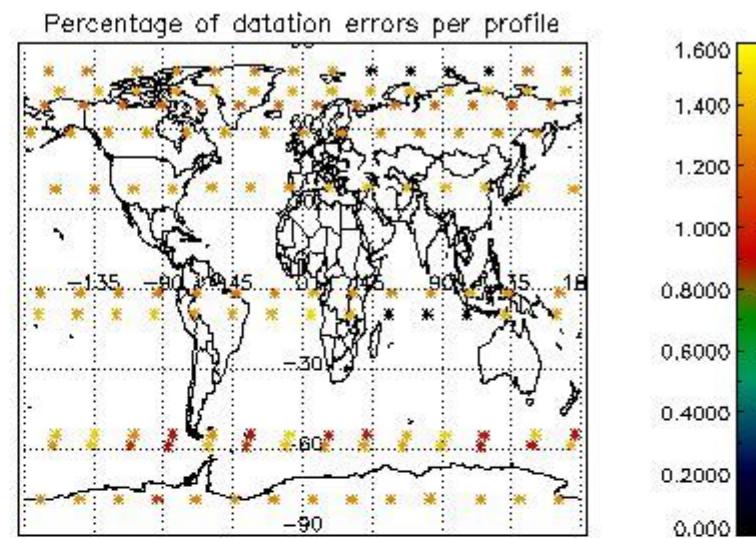
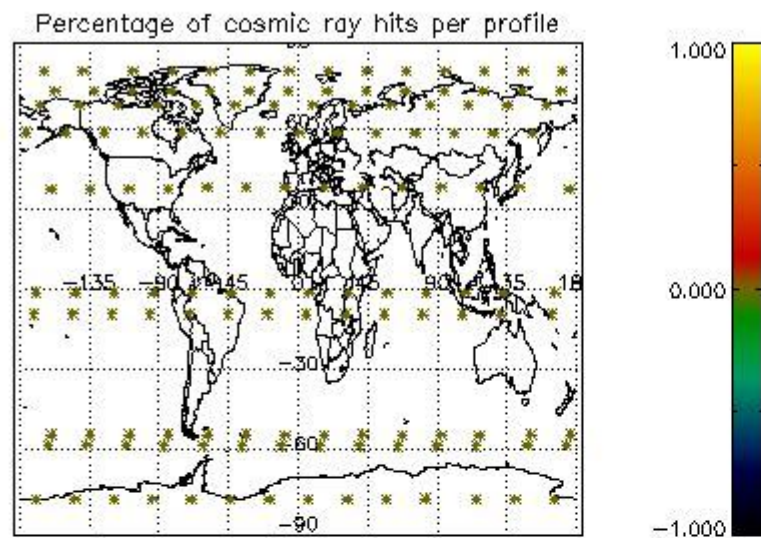
Percentage of star falling outside central band per profile



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

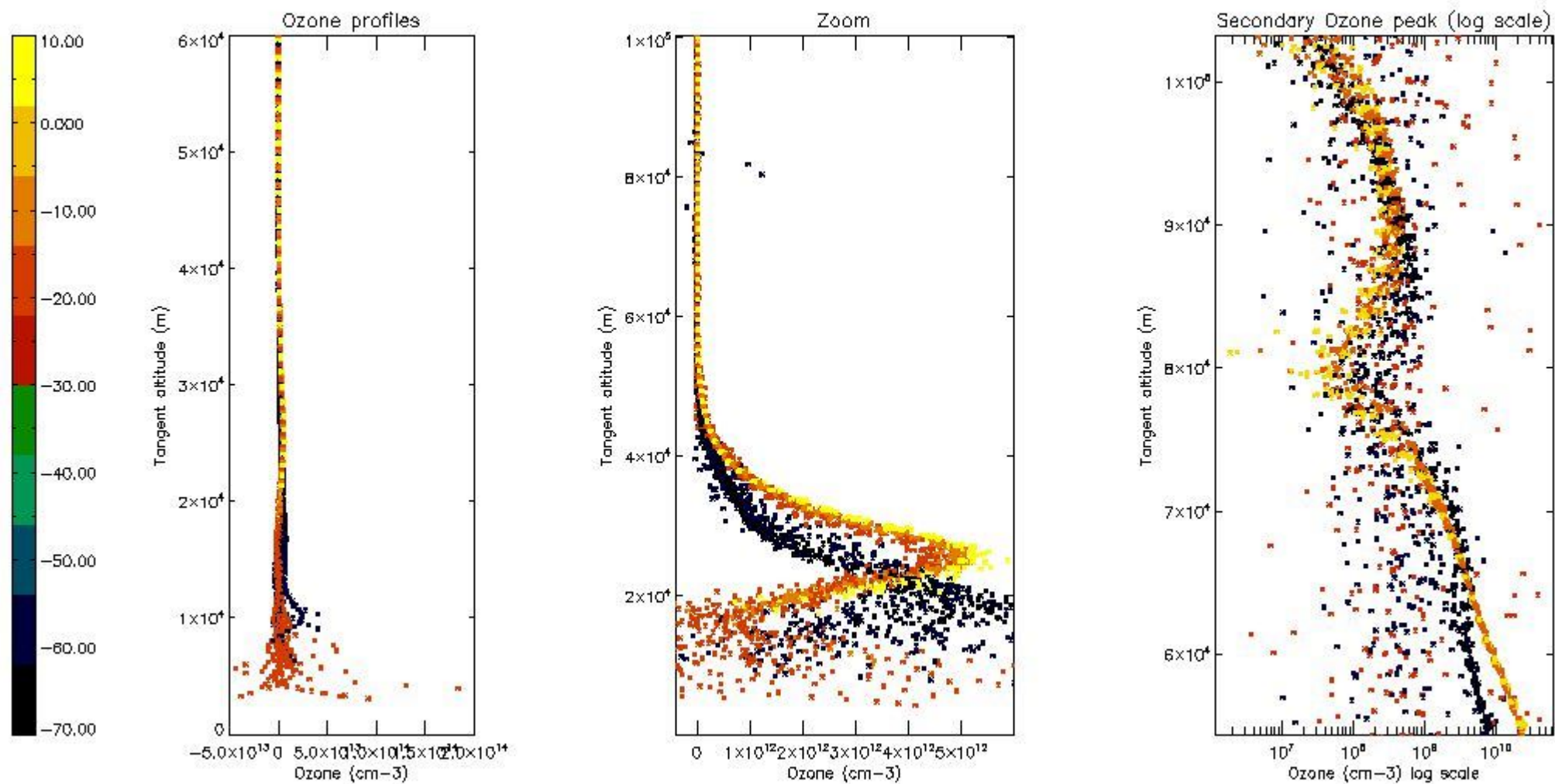
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	27
STD < 20	15

STD < 10	11
STD < 5	8

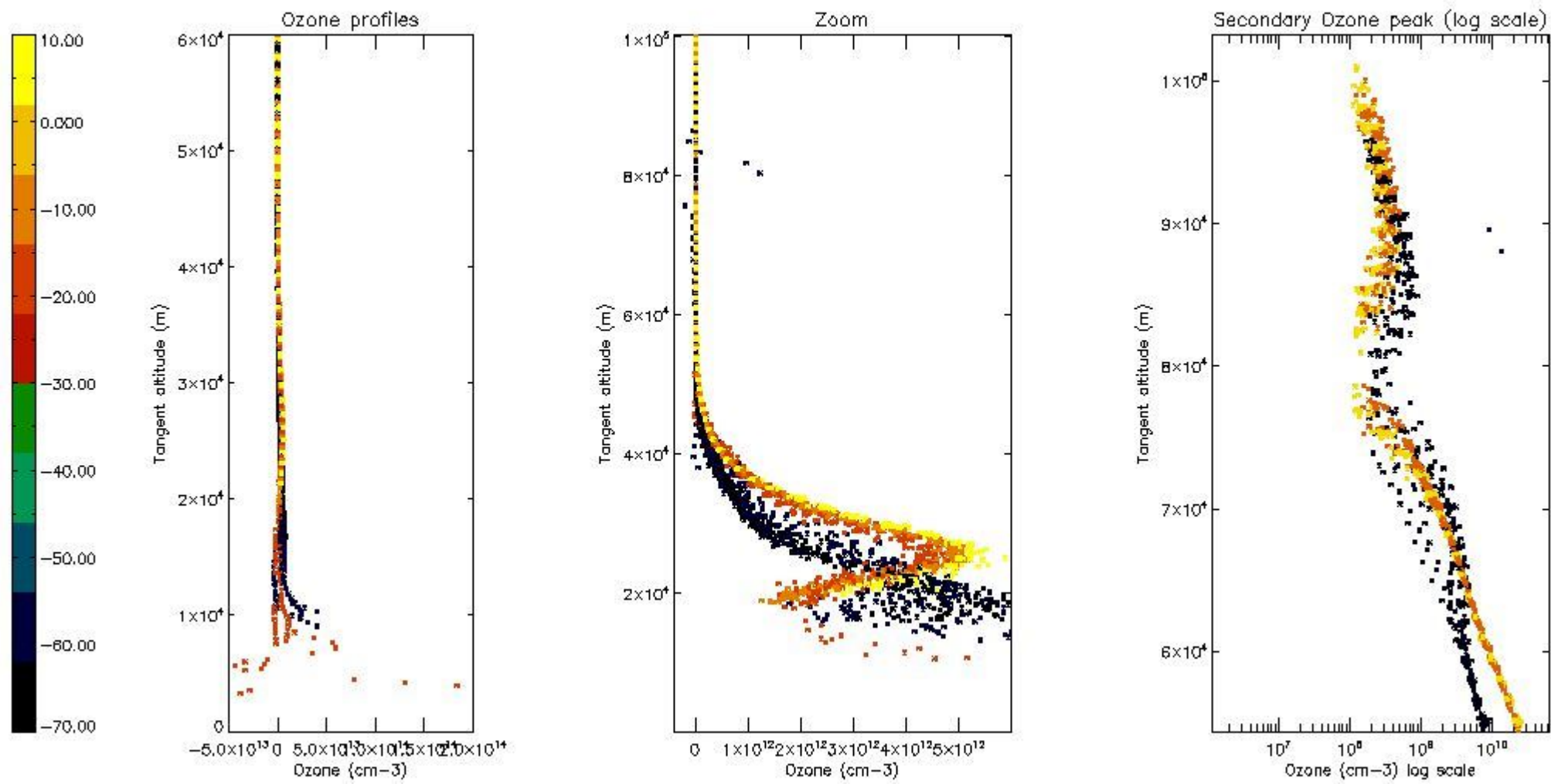
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



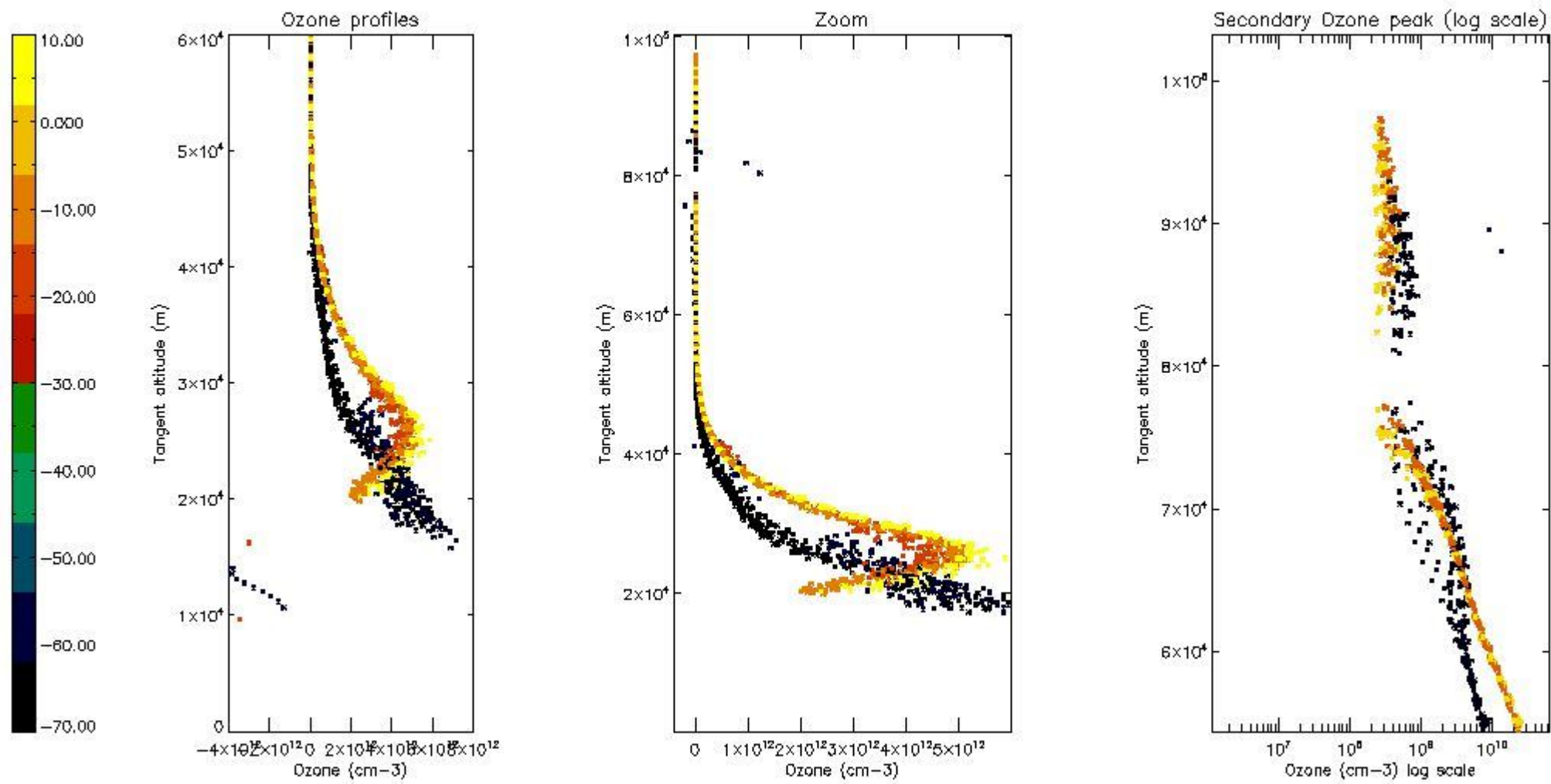
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



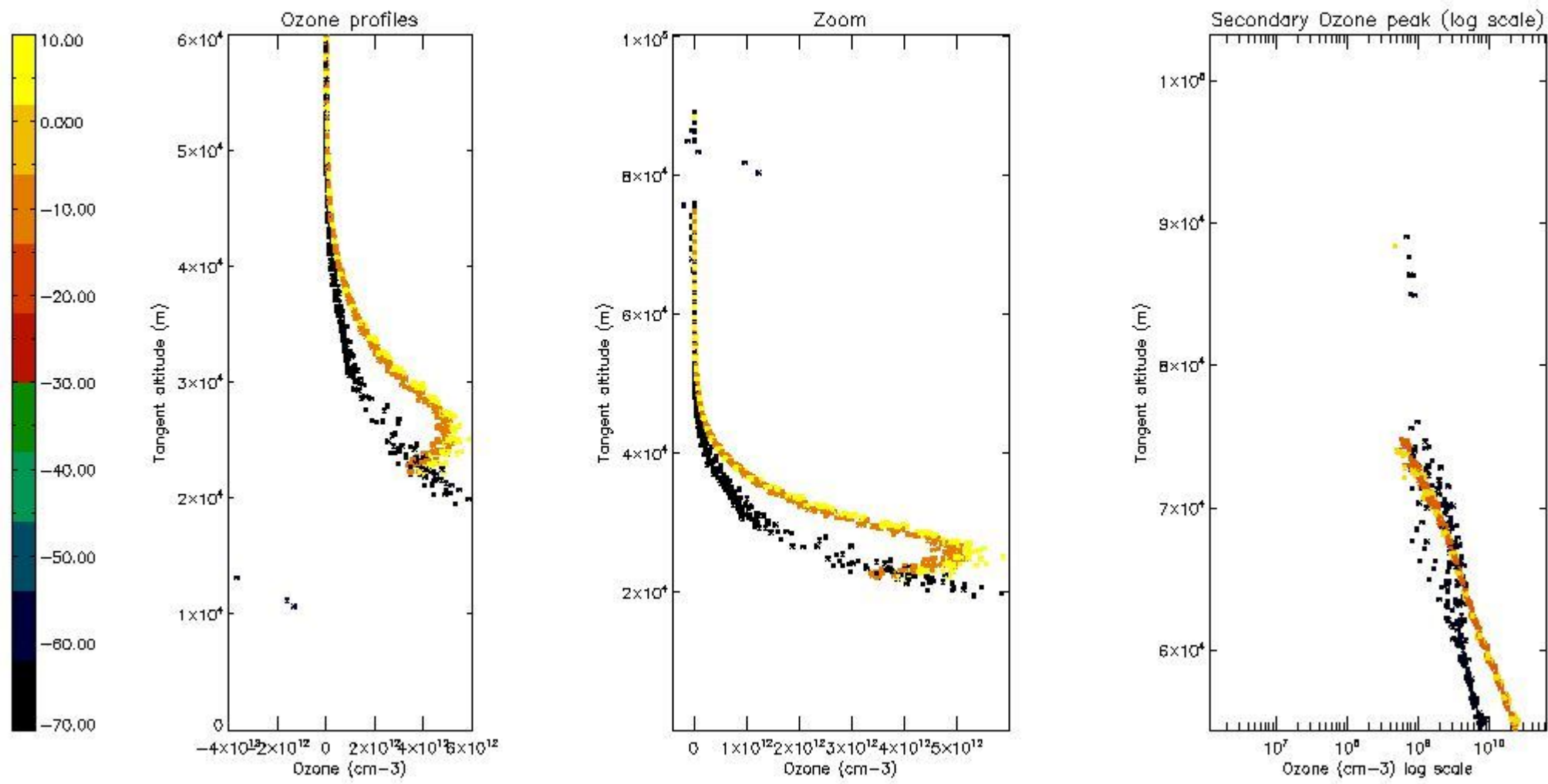
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



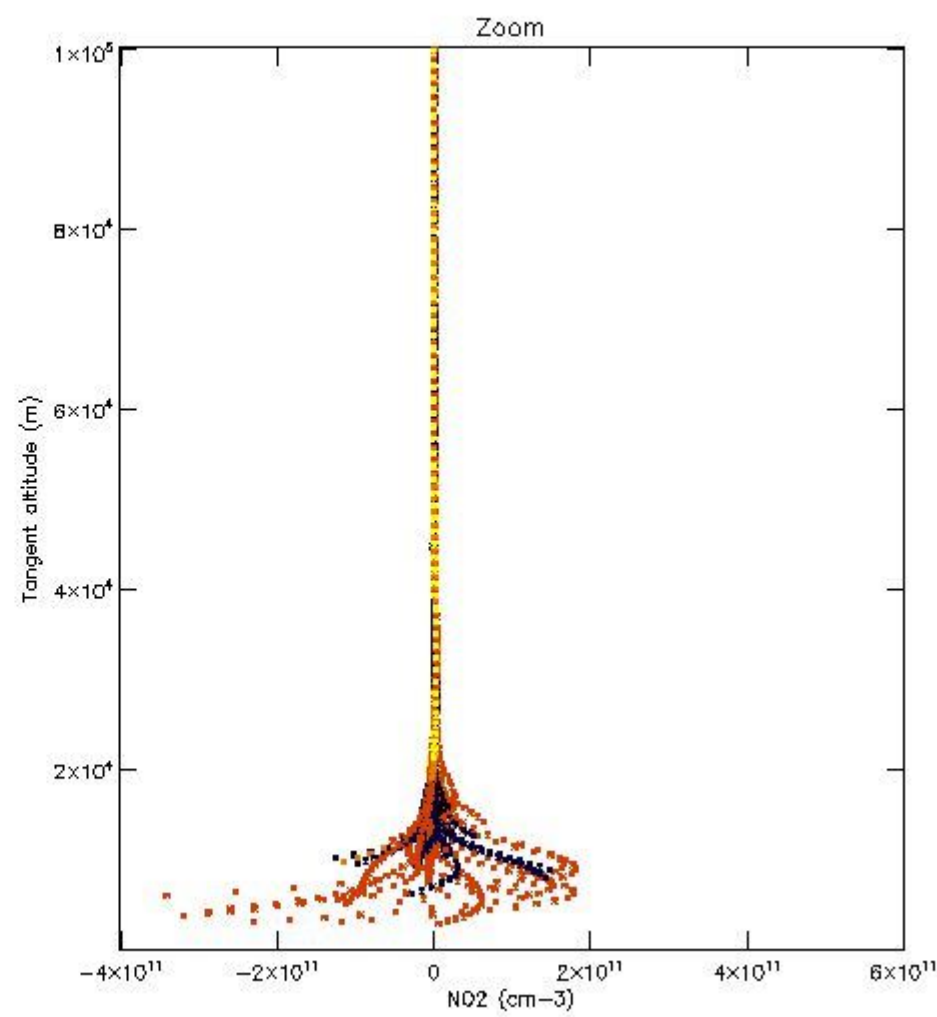
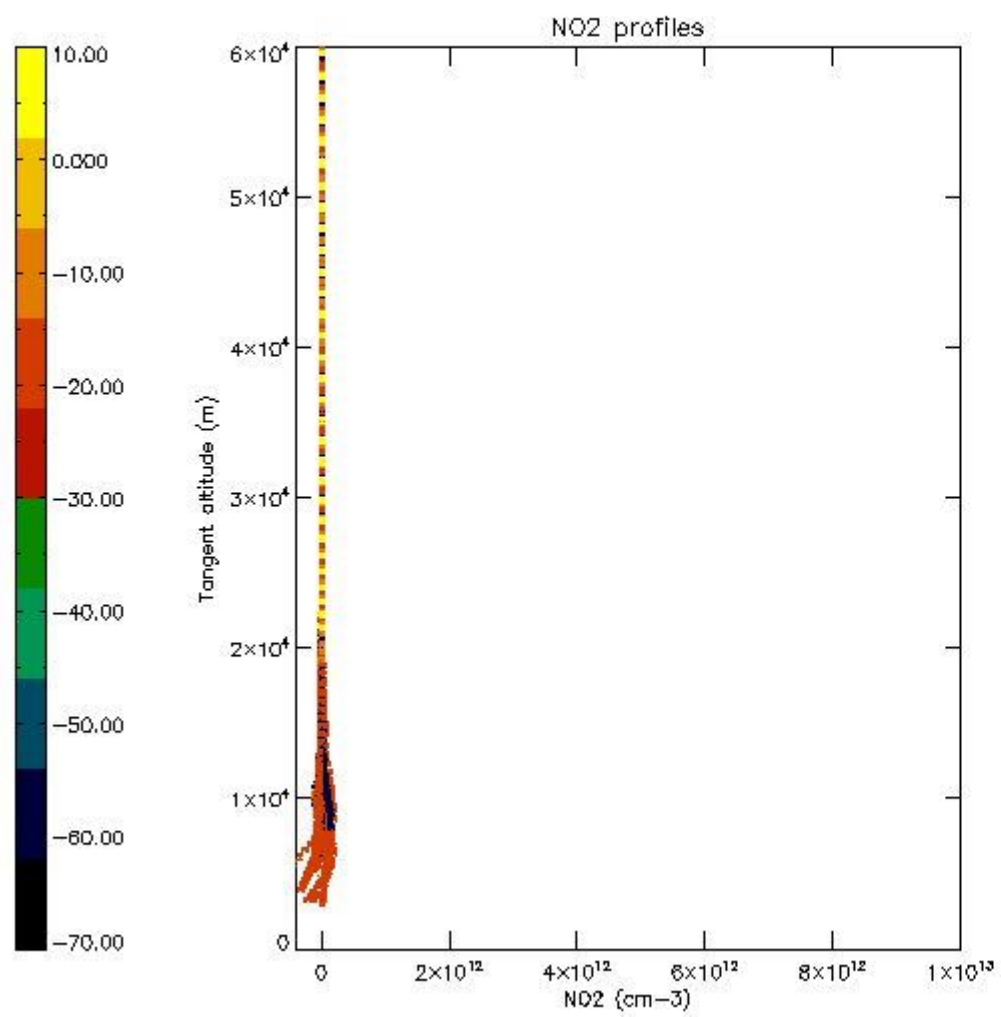
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



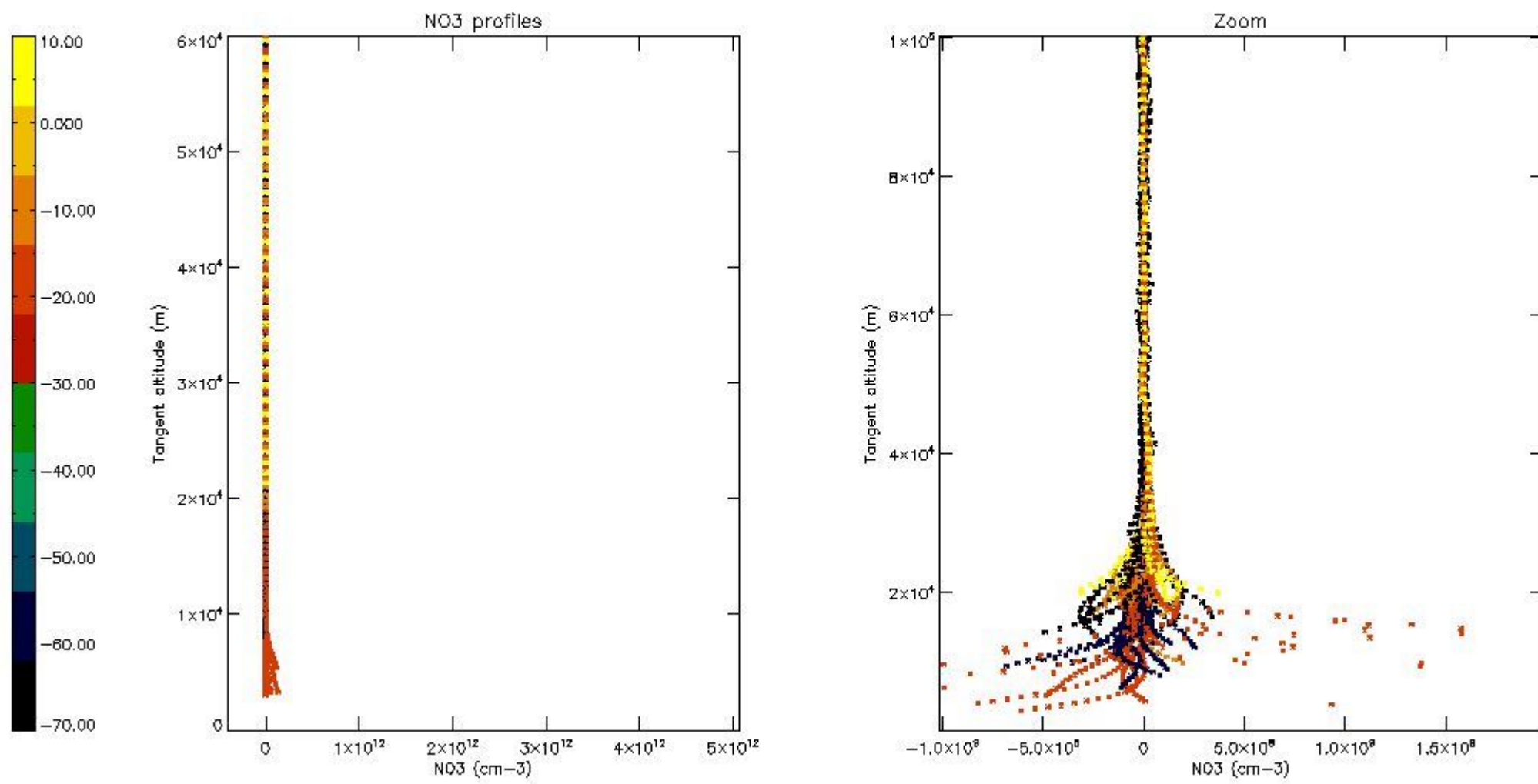
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



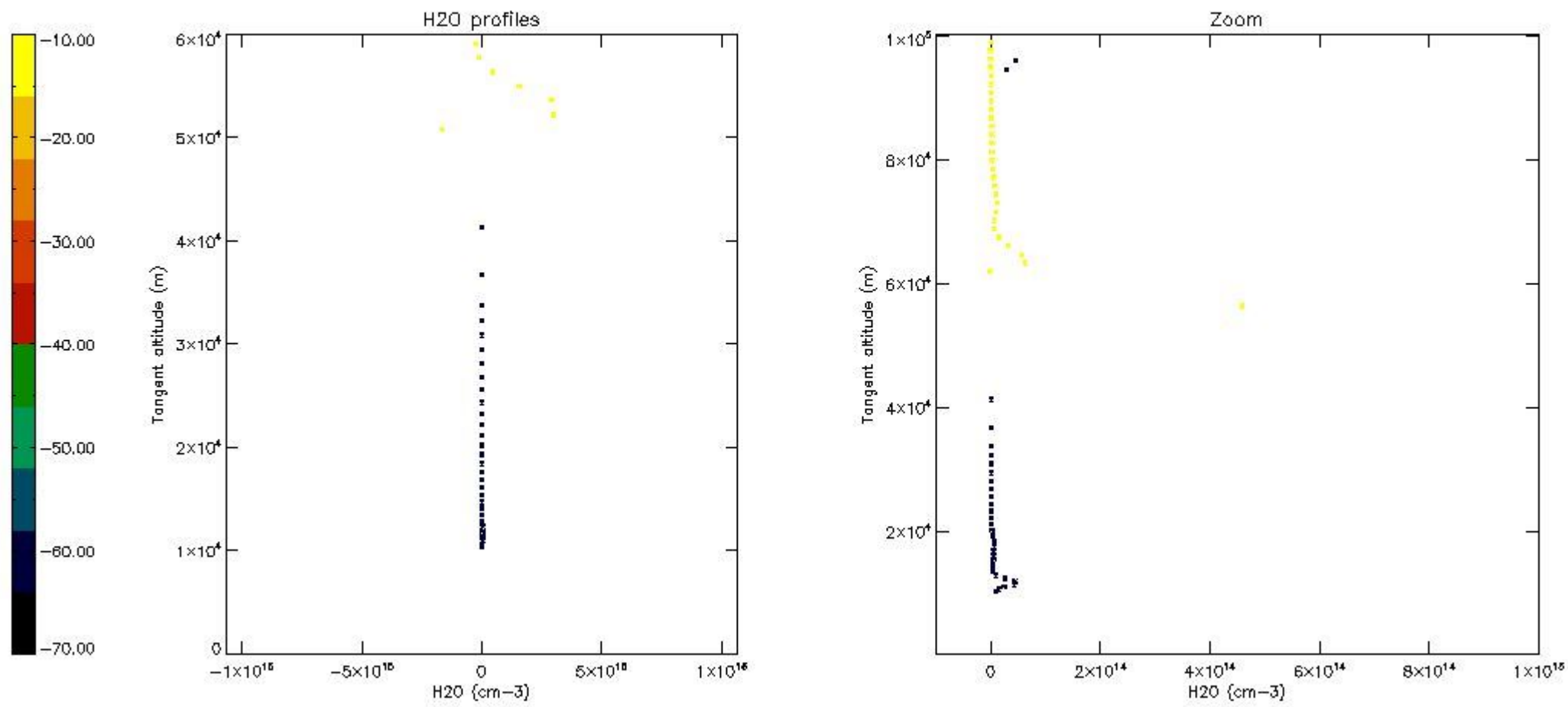
5.7 Plot NO3 profiles for all STD (dark without errors)

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_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	25-MAY-2006 00:05:53
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	25-MAY-2006 00:05:53
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	25-MAY-2006 00:05:53

GOMOS Level 2 Daily Report

SUMMARY

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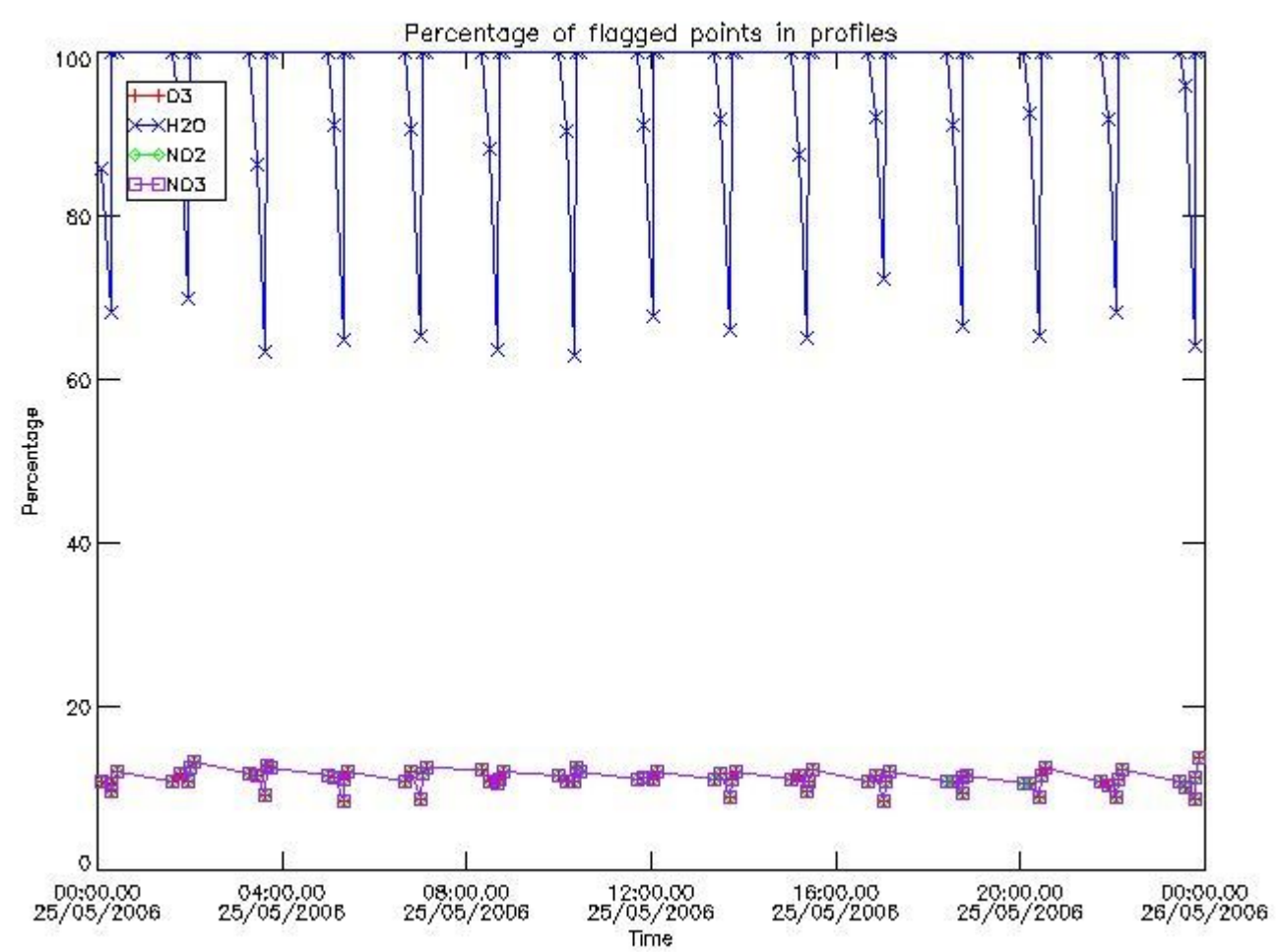
[6. Auxiliary Data Files used for the production reported in section 2](#)

279	GOM_NL__2PRFIN20060525_222153_000000482048_00044_22142_0229.N1	25-MAY-2006 22:21:53	Straylight	47.500	40	The Sco	1.8590	7100.0	95	22142	No
280	GOM_NL__2PRFIN20060525_222343_000000492048_00044_22142_0230.N1	25-MAY-2006 22:23:43	Straylight	49.000	25	35Lam Sco	1.6200	28000.	98	22142	No
281	GOM_NL__2PRFIN20060525_222541_000000492048_00044_22142_0231.N1	25-MAY-2006 22:25:41	Tw_i_and_stray	49.000	75	26Eps Sco	2.2910	4250.0	98	22142	No
282	GOM_NL__2PRFIN20060525_222750_000000432048_00044_22142_0232.N1	25-MAY-2006 22:27:50	Tw_i_and_stray	42.500	136	23Tau Sco	2.8220	30000.	85	22142	No
283	GOM_NL__2PRFIN20060525_223050_000000382048_00044_22142_0233.N1	25-MAY-2006 22:30:50	Bright	37.500	97	8Bet1Sco	2.5610	30000.	75	22142	No
284	GOM_NL__2PRFIN20060525_223417_000000372048_00044_22142_0234.N1	25-MAY-2006 22:34:17	Bright	37.000	104	27Bet Lib	2.6140	13100.	74	22142	No
285	GOM_NL__2PRFIN20060525_223557_000000422048_00044_22142_0235.N1	25-MAY-2006 22:35:57	Bright	42.000	120	1Del Oph	2.7340	3200.0	84	22142	No
286	GOM_NL__2PRFIN20060525_223901_000000392048_00044_22142_0236.N1	25-MAY-2006 22:39:01	Bright	38.500	102	24Alp Ser	2.6000	4250.0	77	22142	No
287	GOM_NL__2PRFIN20060525_224505_000000382048_00044_22142_0237.N1	25-MAY-2006 22:45:05	Bright	37.500	67	5Alp CrB	2.2210	11000.	75	22142	No
288	GOM_NL__2PRFIN20060525_225554_000000402048_00044_22142_0238.N1	25-MAY-2006 22:55:54	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	22142	No
289	GOM_NL__2PRFIN20060525_225810_000000372048_00044_22142_0239.N1	25-MAY-2006 22:58:10	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	22142	No
290	GOM_NL__2PRFIN20060525_231055_000000352048_00044_22142_0240.N1	25-MAY-2006 23:10:55	Bright	34.500	76	27Gam Cas	2.3000	30000.	69	22142	No
291	GOM_NL__2PRFIN20060525_231207_000000552048_00044_22142_0241.N1	25-MAY-2006 23:12:07	Bright	55.000	68	18Alp Cas	2.2250	4500.0	110	22142	No
292	GOM_NL__2PRFIN20060525_231824_000000392048_00044_22142_0242.N1	25-MAY-2006 23:18:24	Bright	39.000	53	43Bet And	2.0480	3300.0	78	22142	No
293	GOM_NL__2PRFIN20060525_232059_000000482048_00044_22142_0243.N1	25-MAY-2006 23:20:59	Tw_i_and_stray	47.500	58	21Alp And	2.0730	11000.	95	22142	No
294	GOM_NL__2PRFIN20060525_232532_000000462048_00044_22142_0244.N1	25-MAY-2006 23:25:32	Dark	46.000	140	88Gam Peg	2.8340	26000.	92	22142	No
295	GOM_NL__2PRFIN20060525_233423_000000512048_00044_22142_0245.N1	25-MAY-2006 23:34:23	Dark	50.500	52	16Bet Cet	2.0370	4500.0	101	22142	No
296	GOM_NL__2PRFIN20060525_234600_000000592048_00045_22143_0225.N1	25-MAY-2006 23:46:00	Dark	59.000	63	Bet Gru	2.1500	2800.0	118	22143	No
297	GOM_NL__2PRFIN20060525_234744_000000452048_00045_22143_0226.N1	25-MAY-2006 23:47:44	Dark	45.000	31	Alp Gru	1.7340	15200.	90	22143	No
298	GOM_NL__2PRFIN20060525_235302_000000412048_00045_22143_0227.N1	25-MAY-2006 23:53:02	Dark	41.000	45	Alp Pav	1.9400	26000.	82	22143	No
299	GOM_NL__2PRFIN20060525_235940_000000402048_00045_22143_0228.N1	25-MAY-2006 23:59:40	Straylight	40.000	141	Bet Ara	2.8400	4600.0	80	22143	No

3. Quality information per product

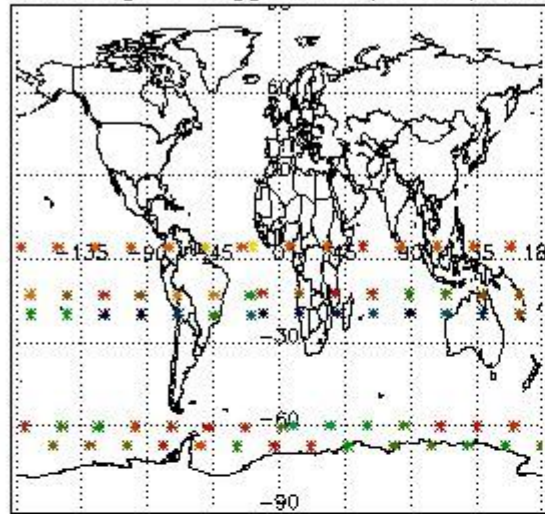
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

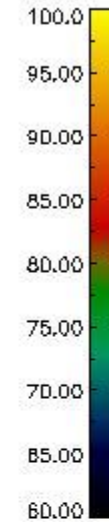
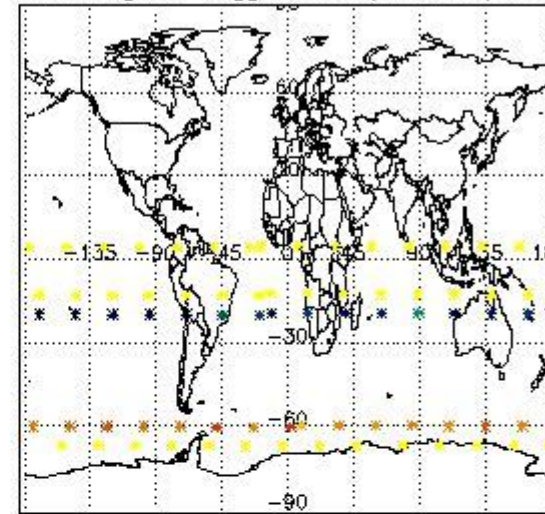


3.2 Plot quality information per product (world map)

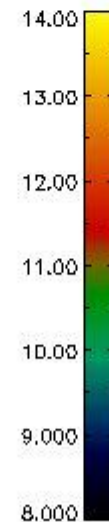
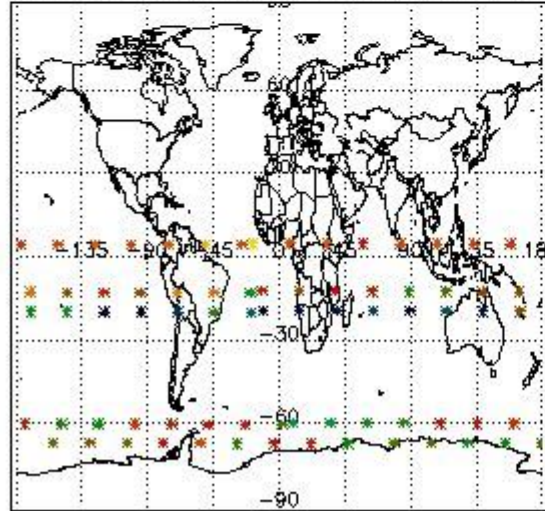
Percentage of flagged data per O3 profile



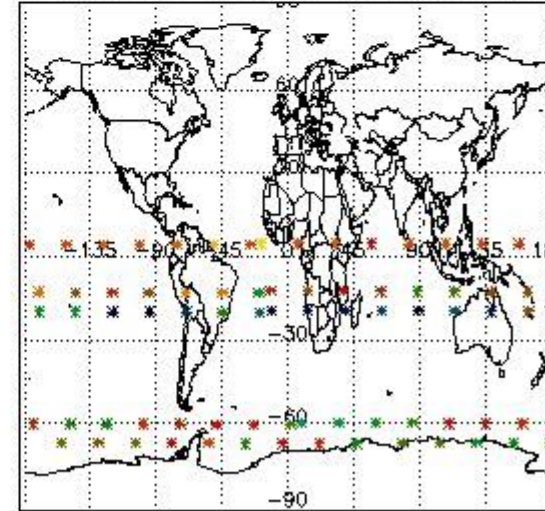
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

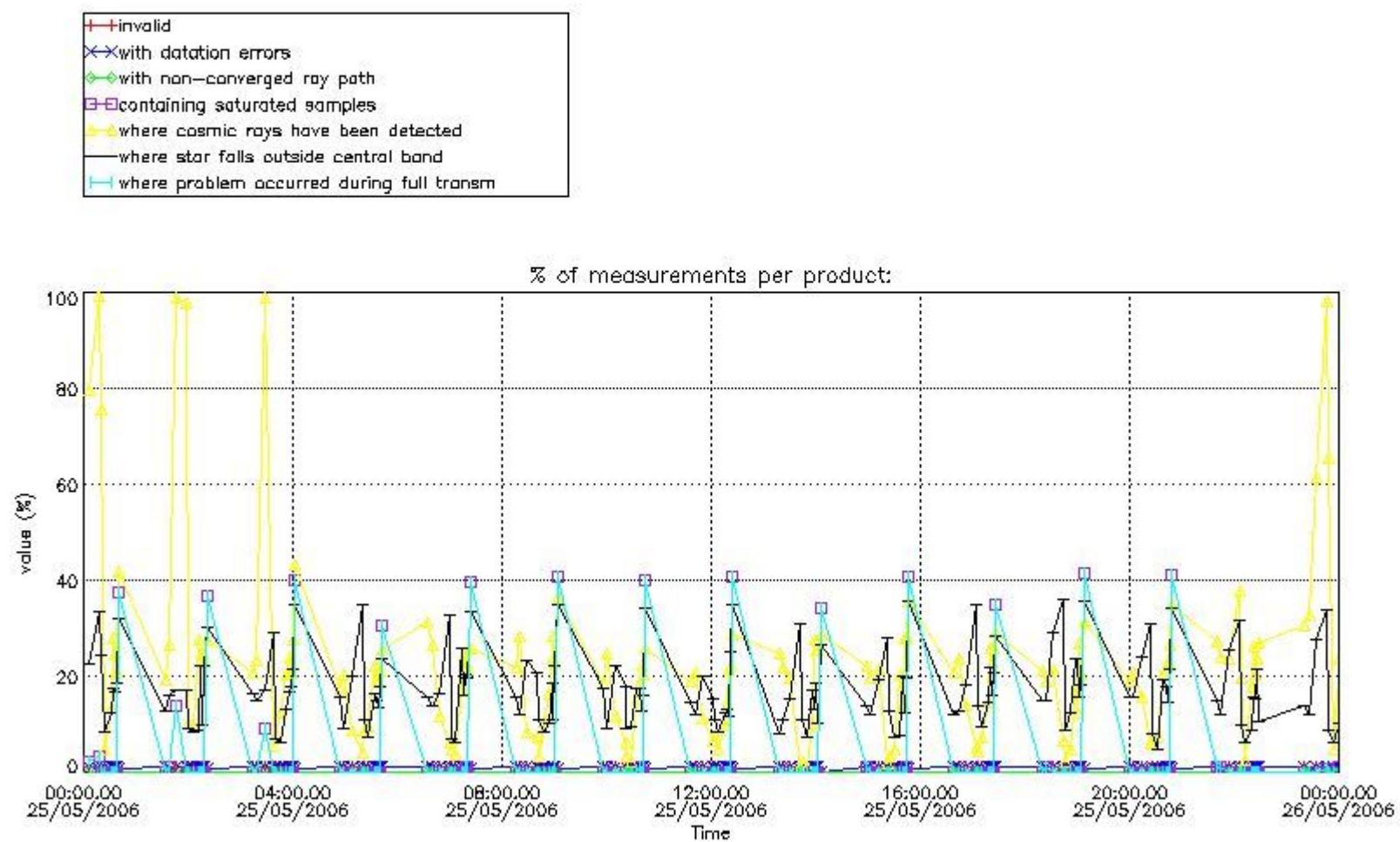


4. Level 1 quality information per product

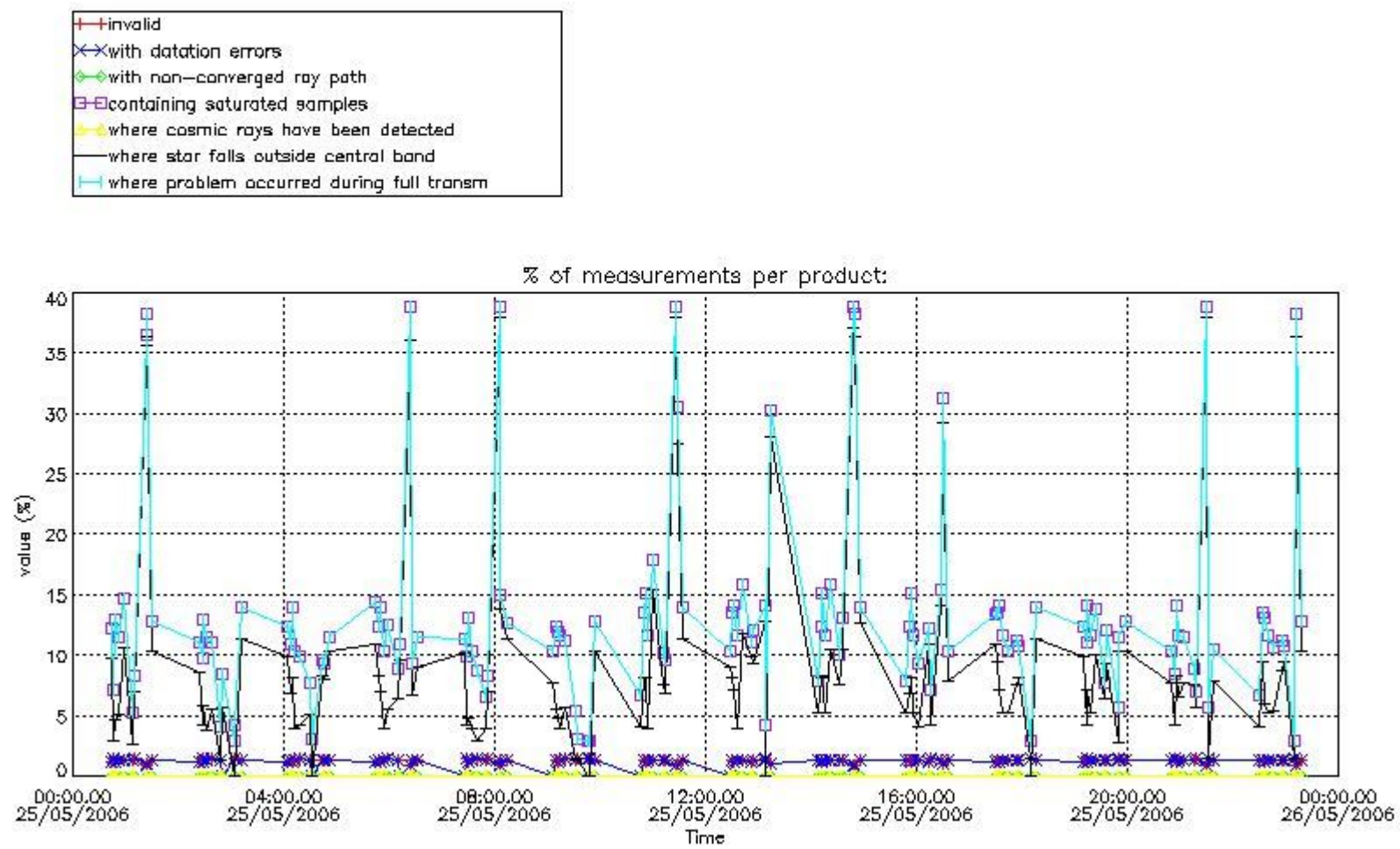
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



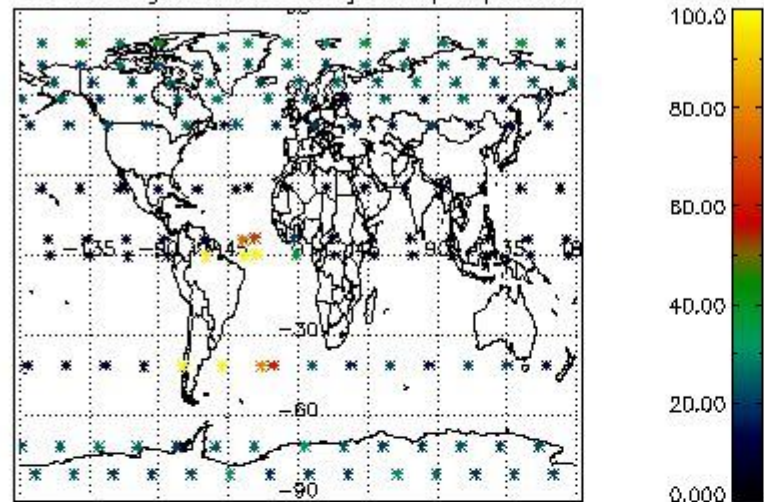
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



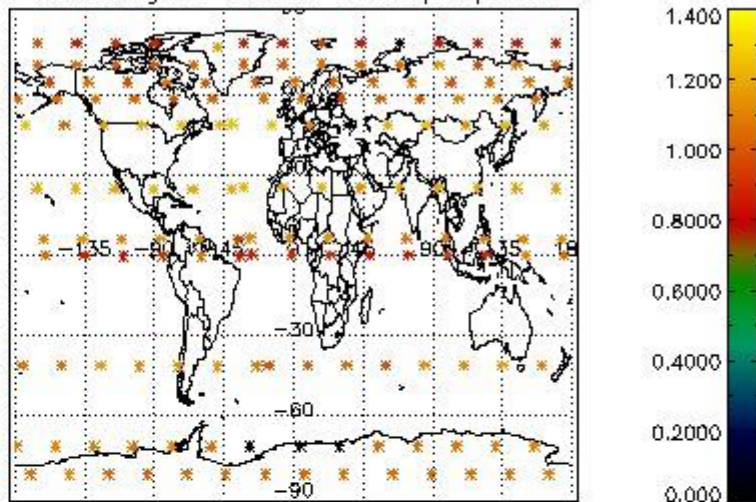
4.2 Plot quality information per product coming from level 1b processing (world map)

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

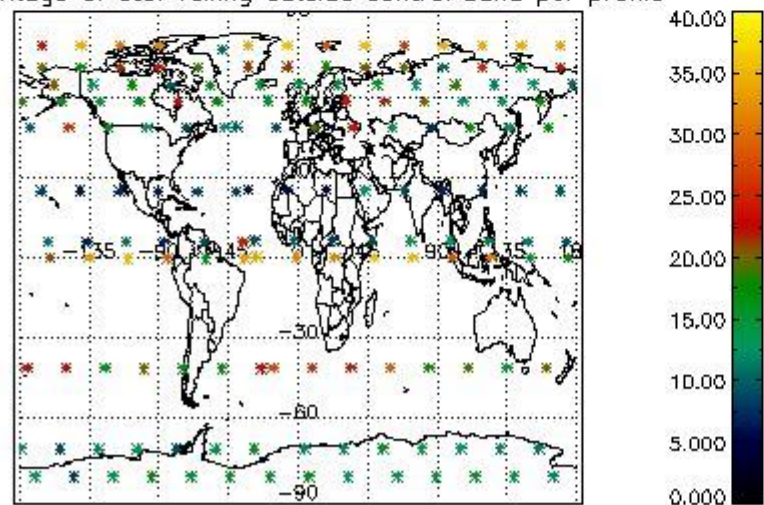
Percentage of cosmic ray hits per profile



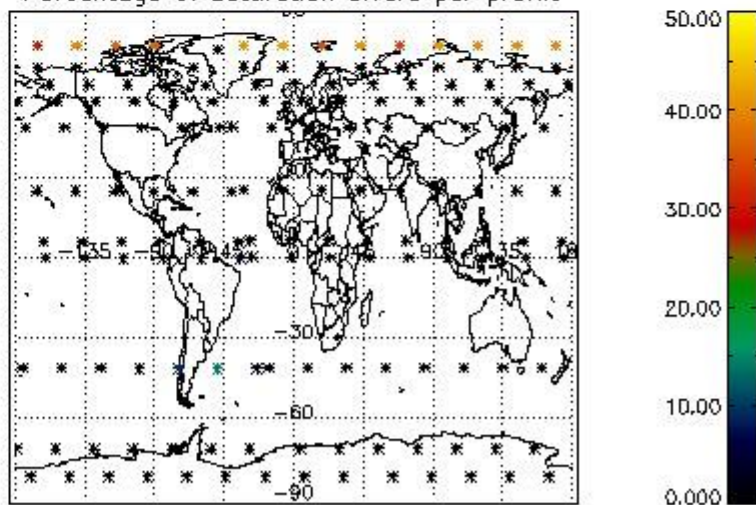
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

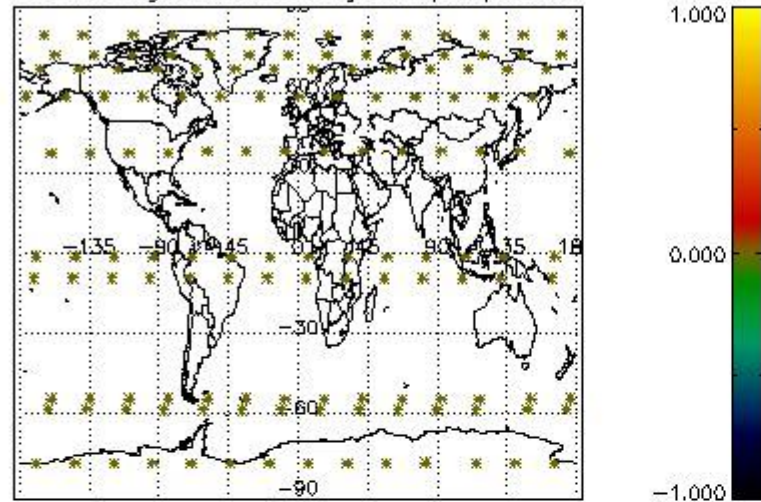


Percentage of saturation errors per profile

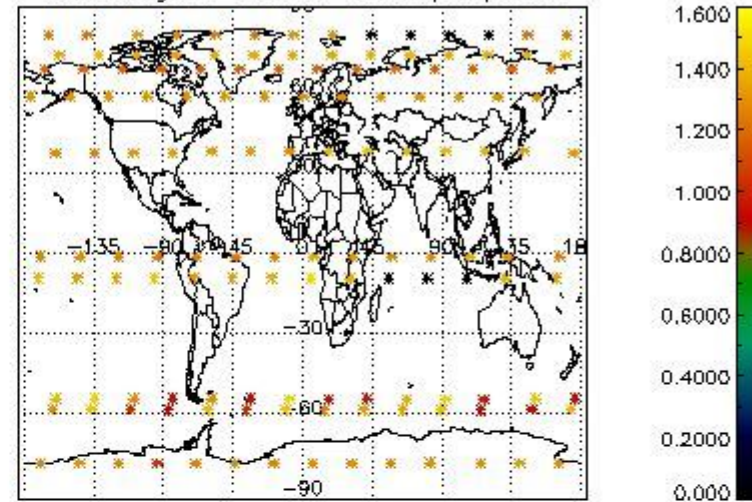


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

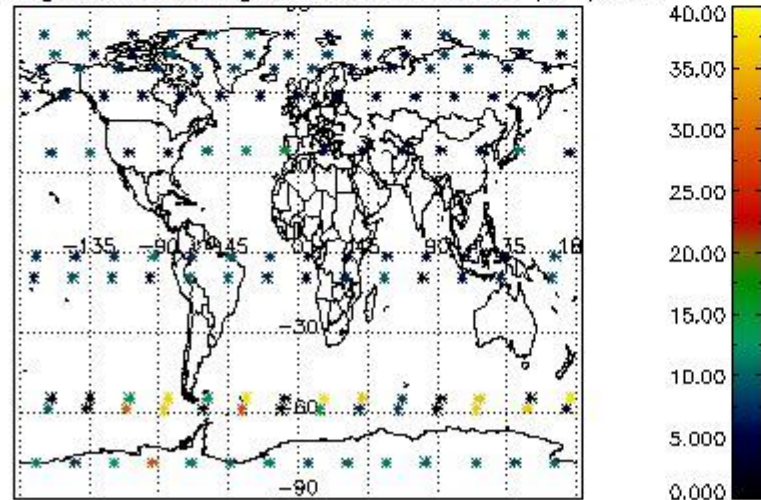
Percentage of cosmic ray hits per profile



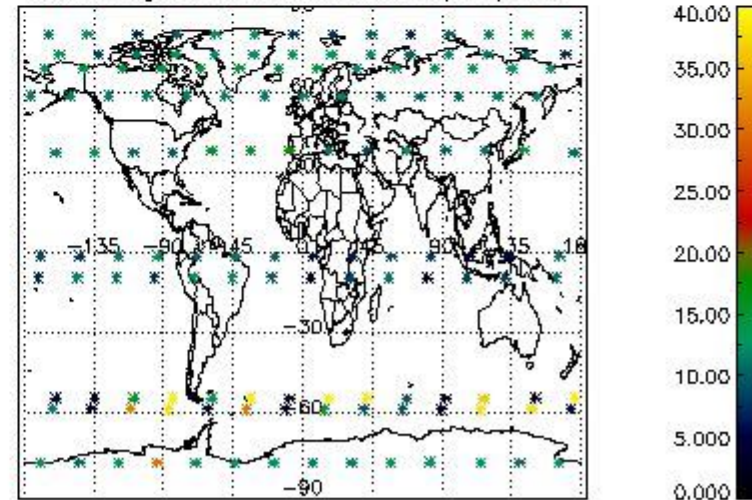
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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

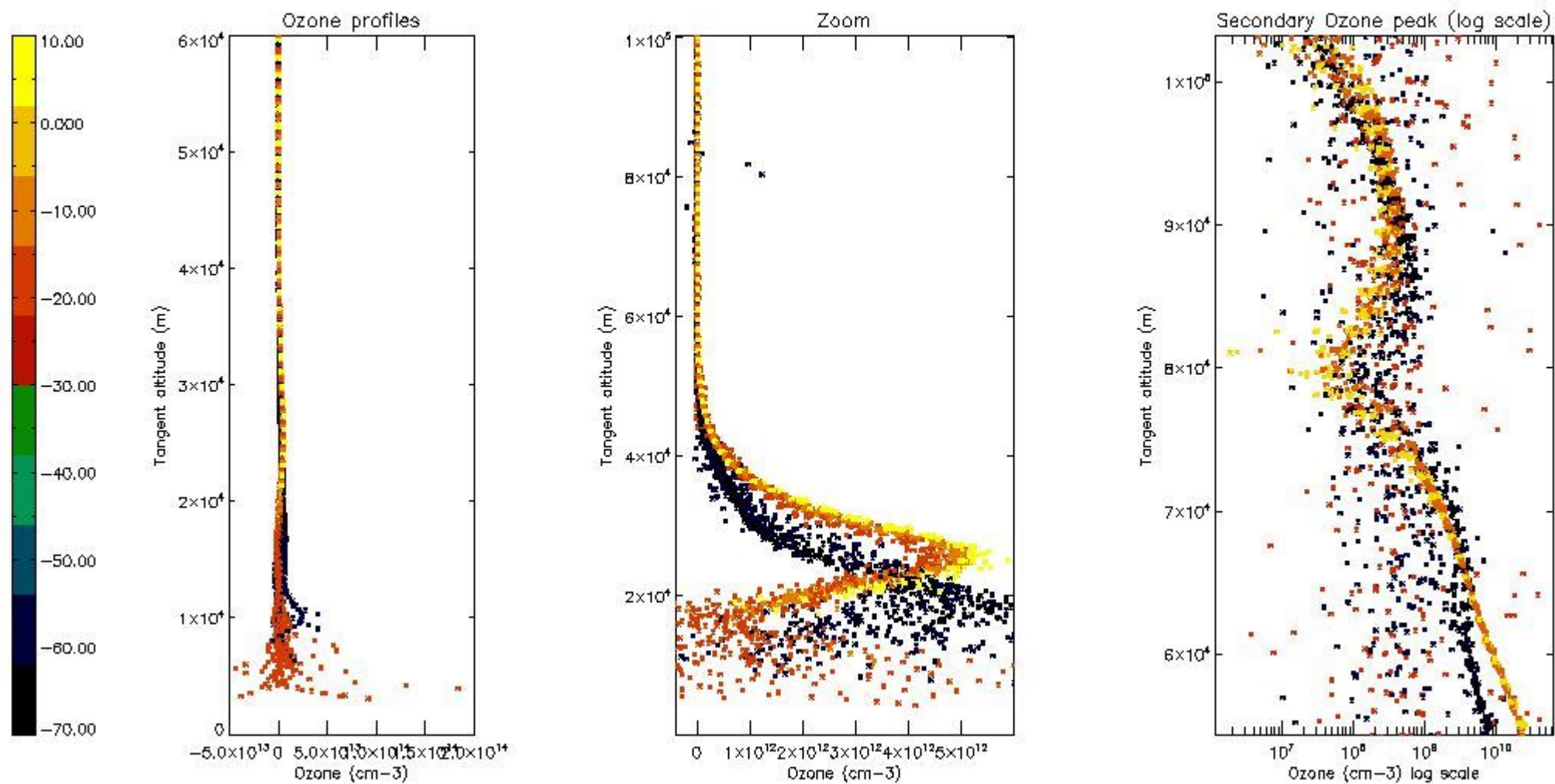
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	27
STD < 20	15

STD < 10	11
STD < 5	8

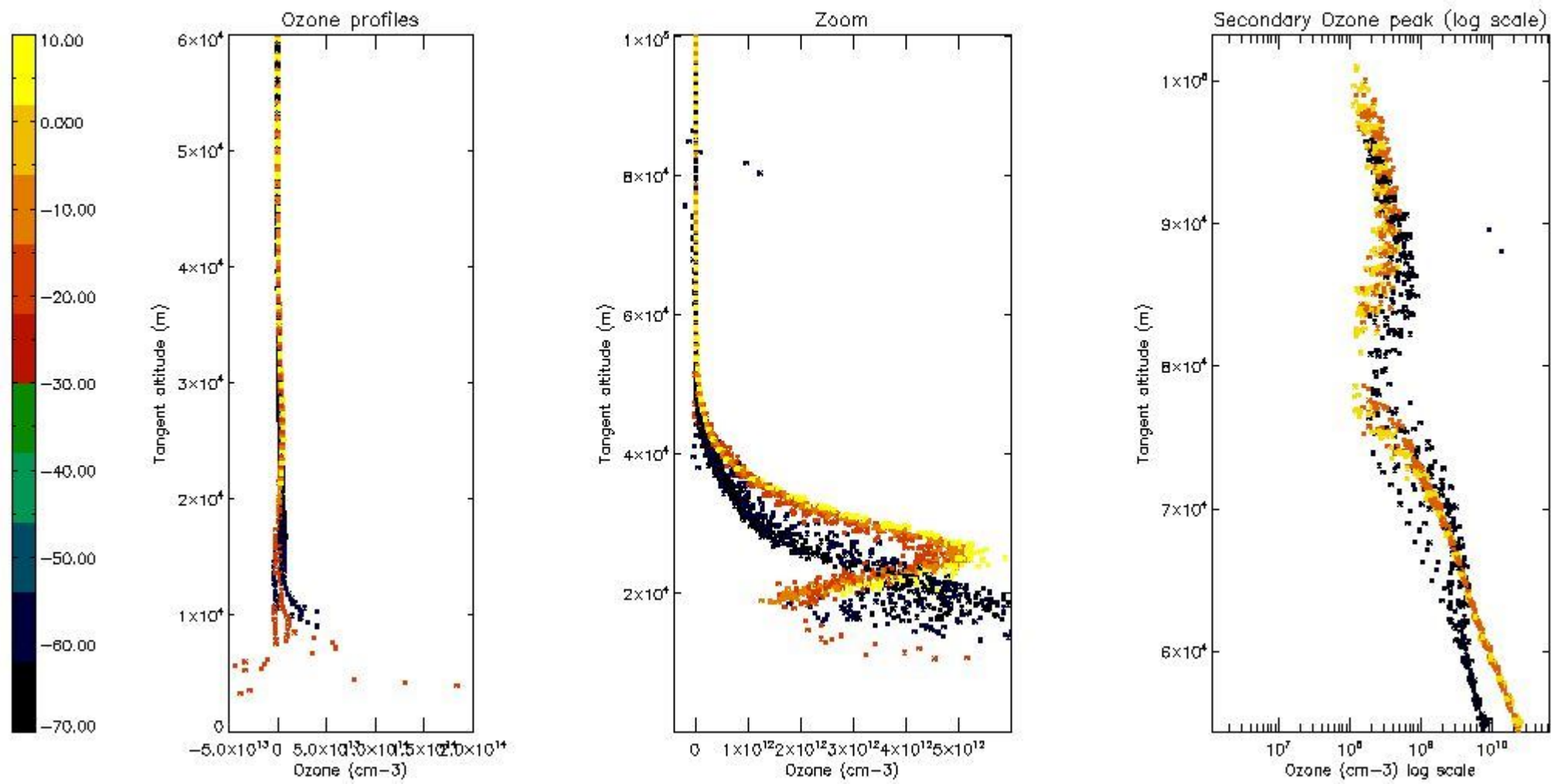
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



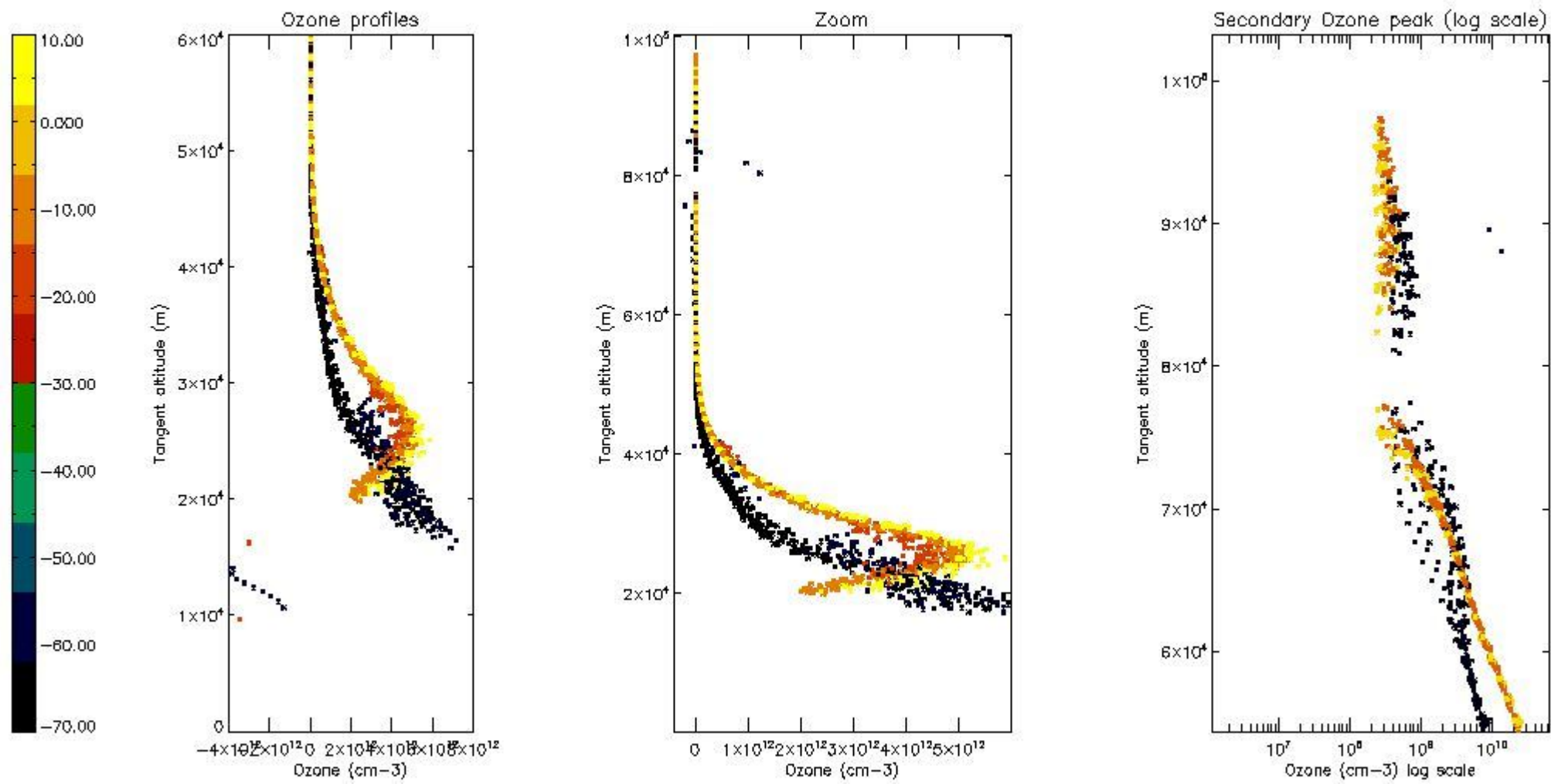
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



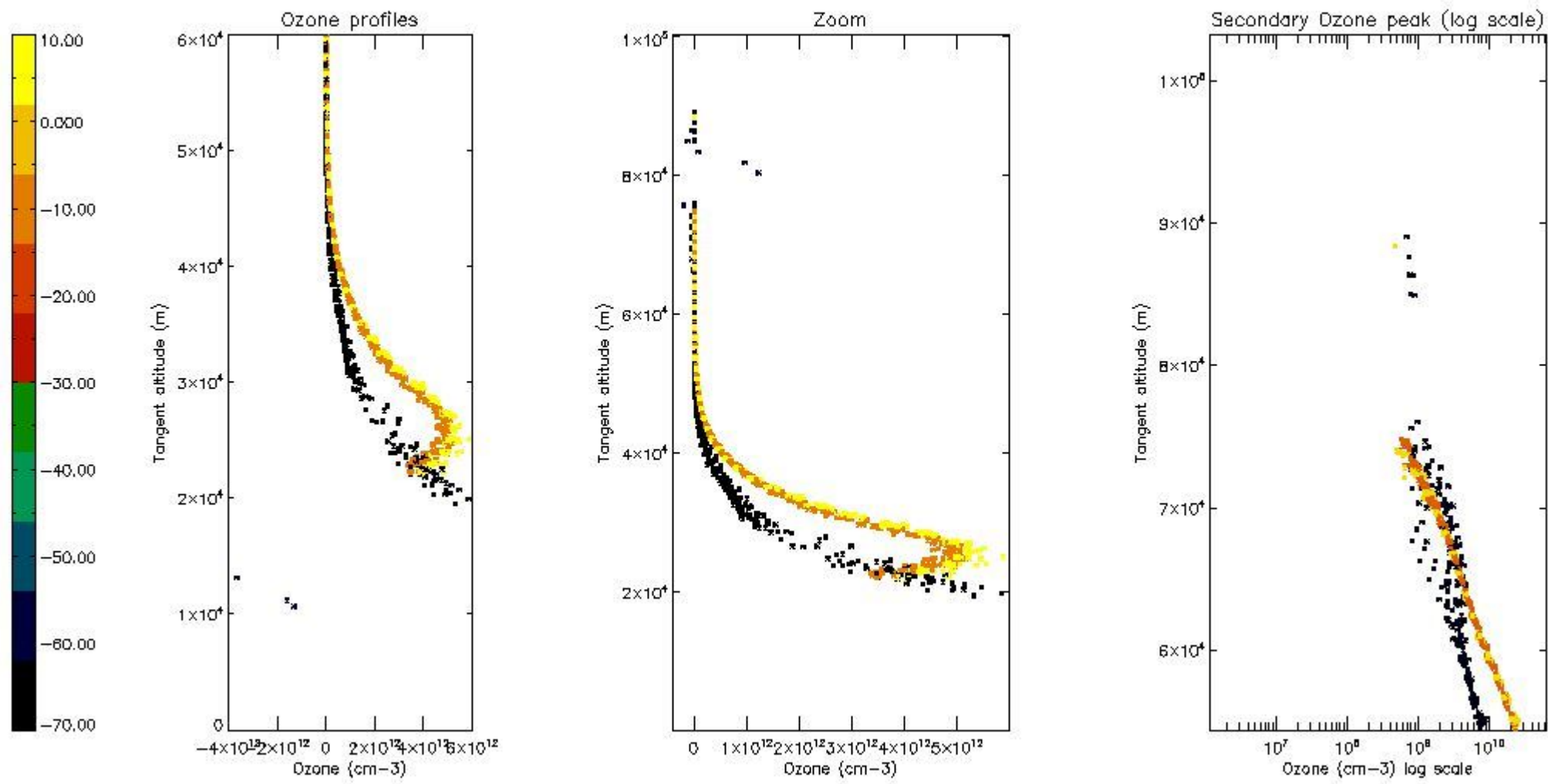
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



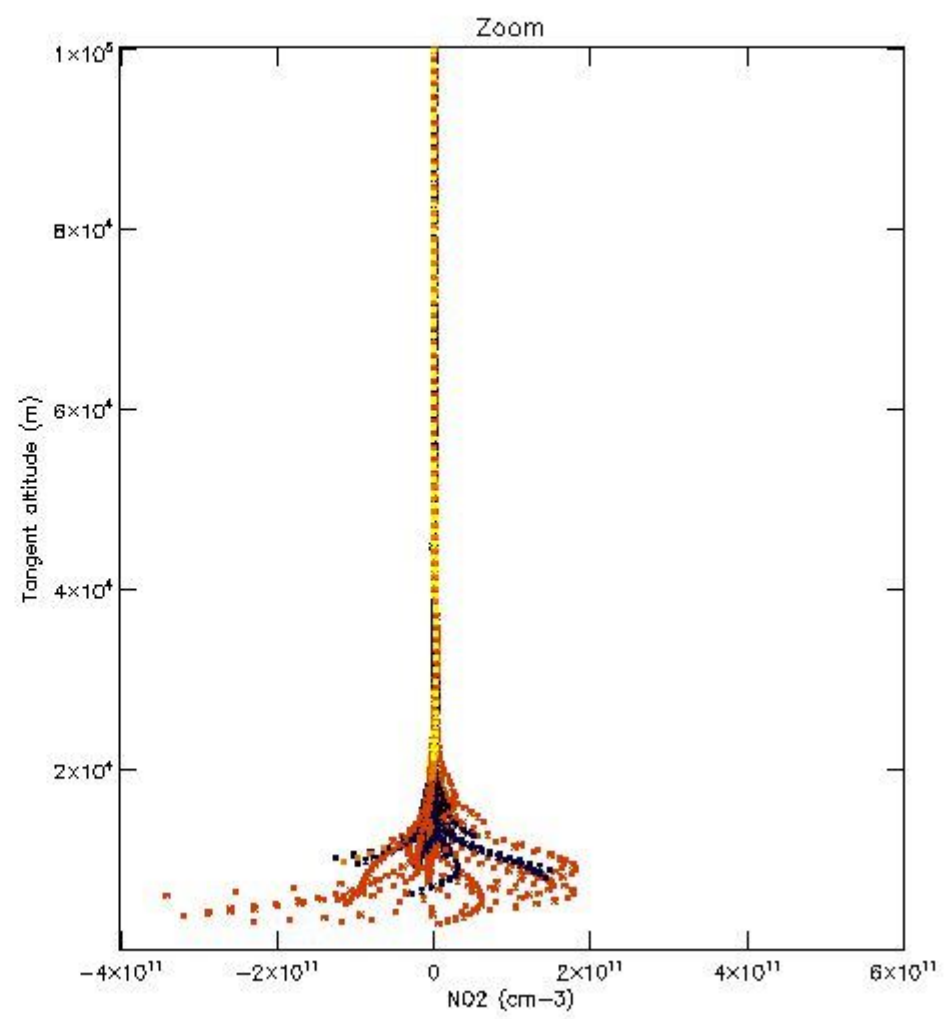
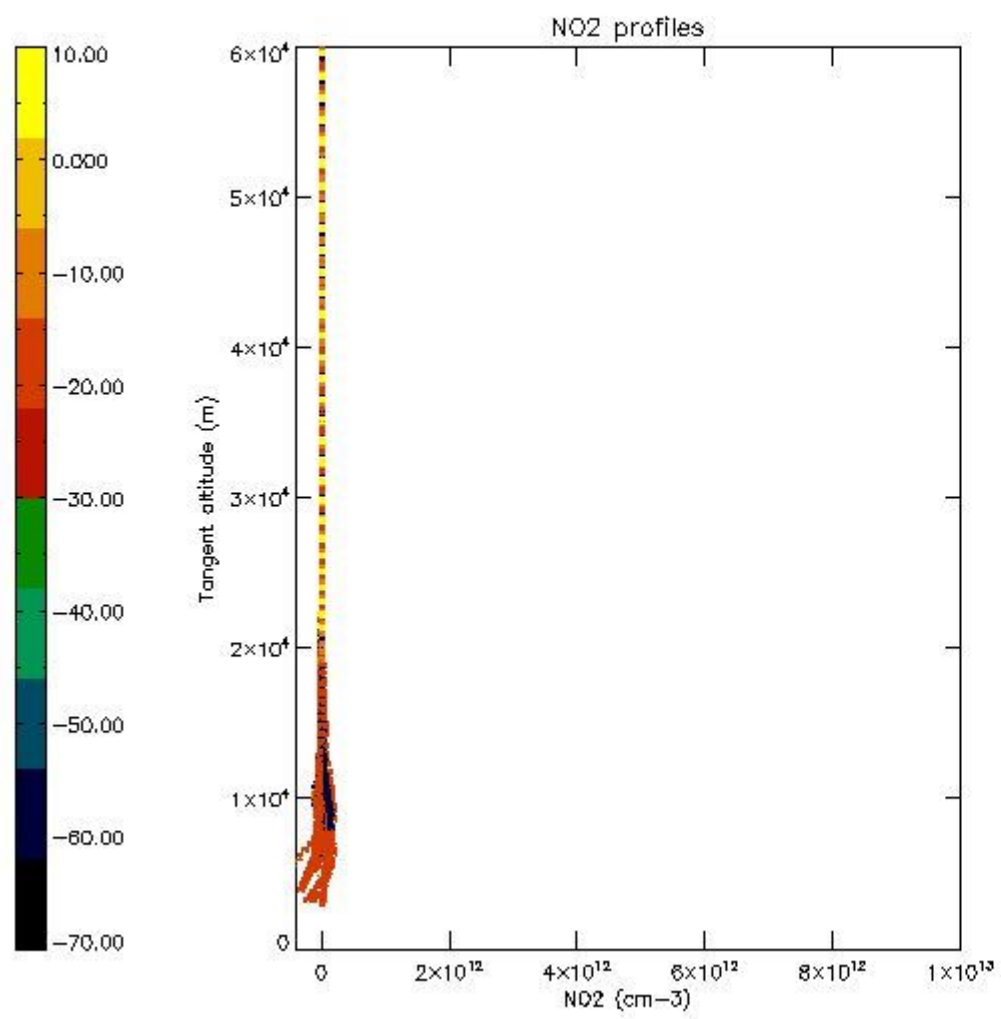
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



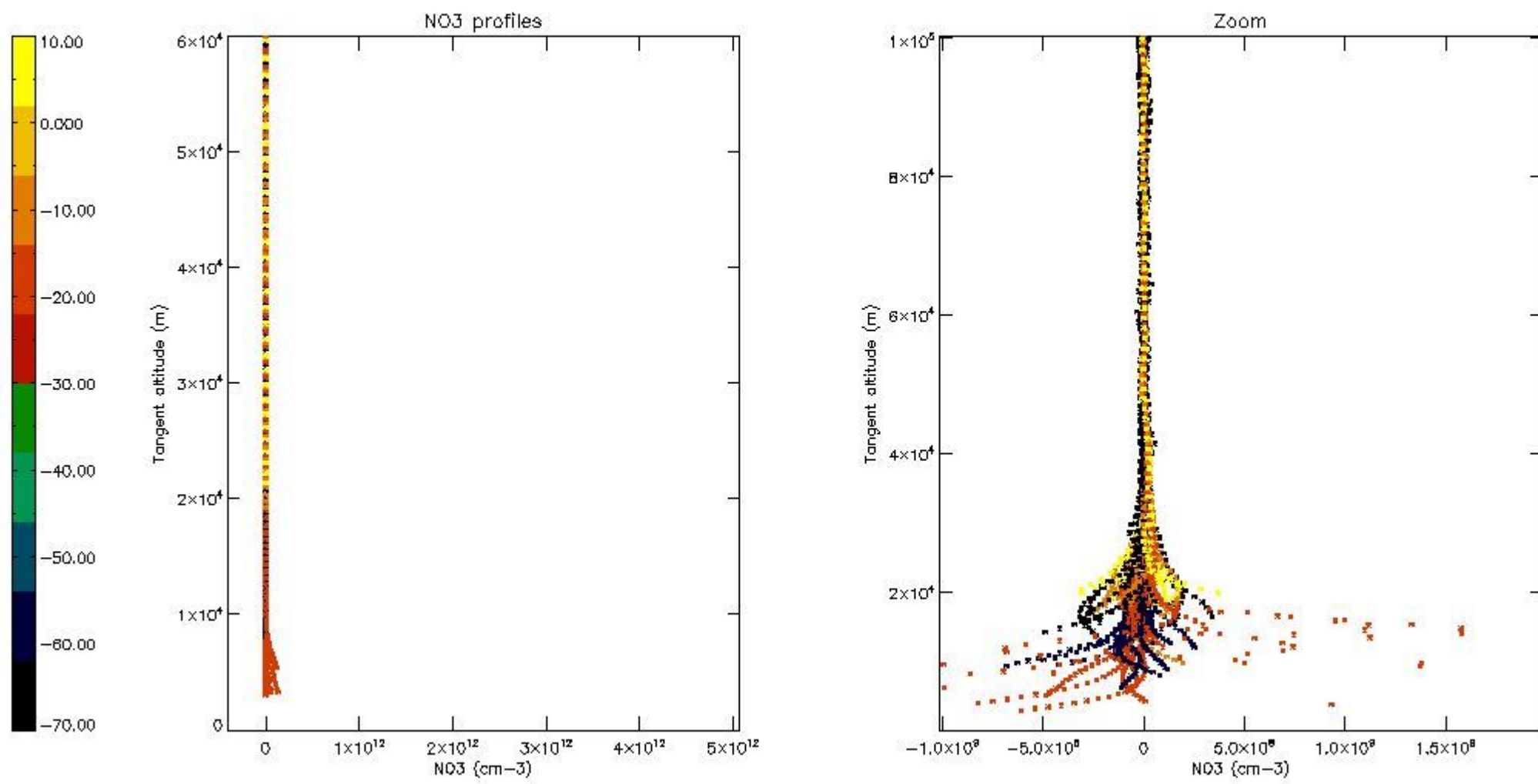
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



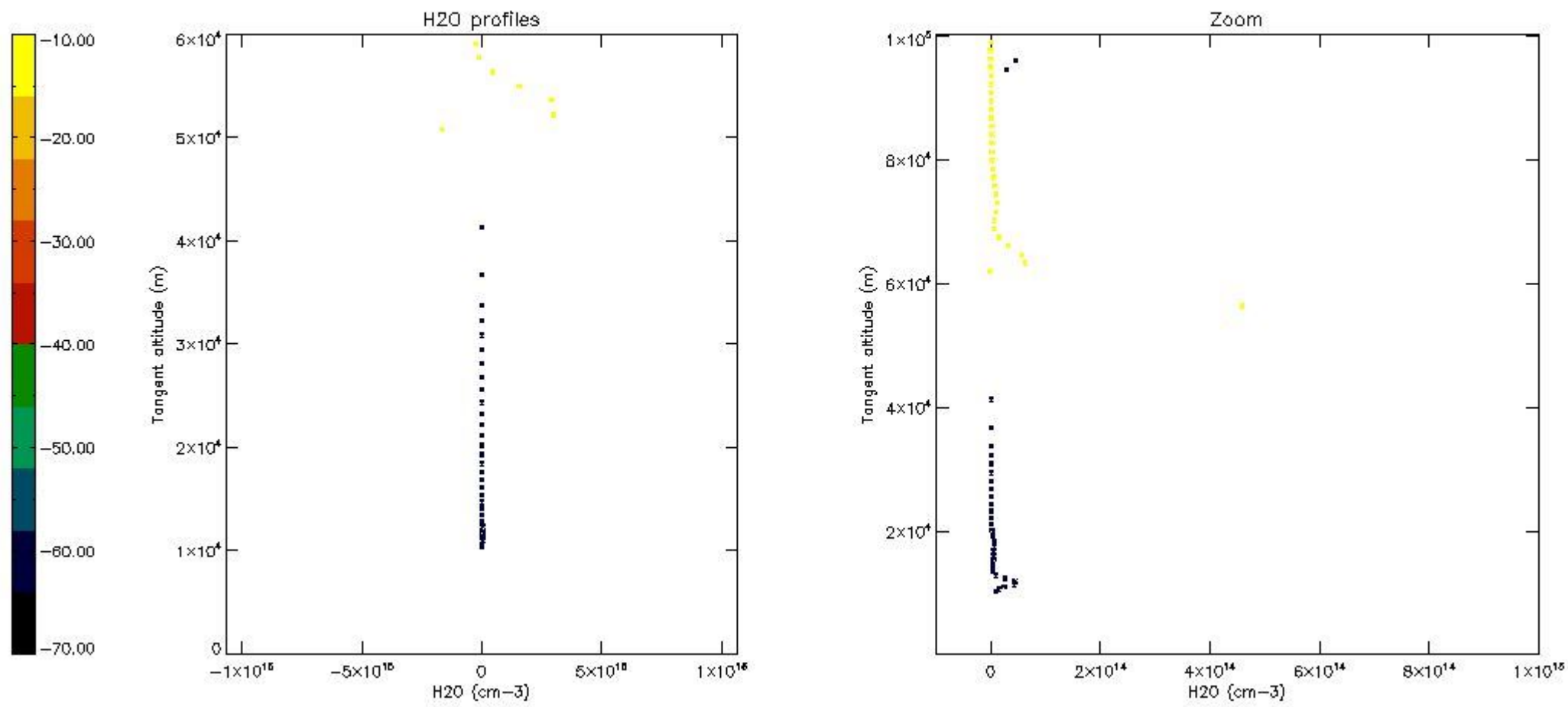
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

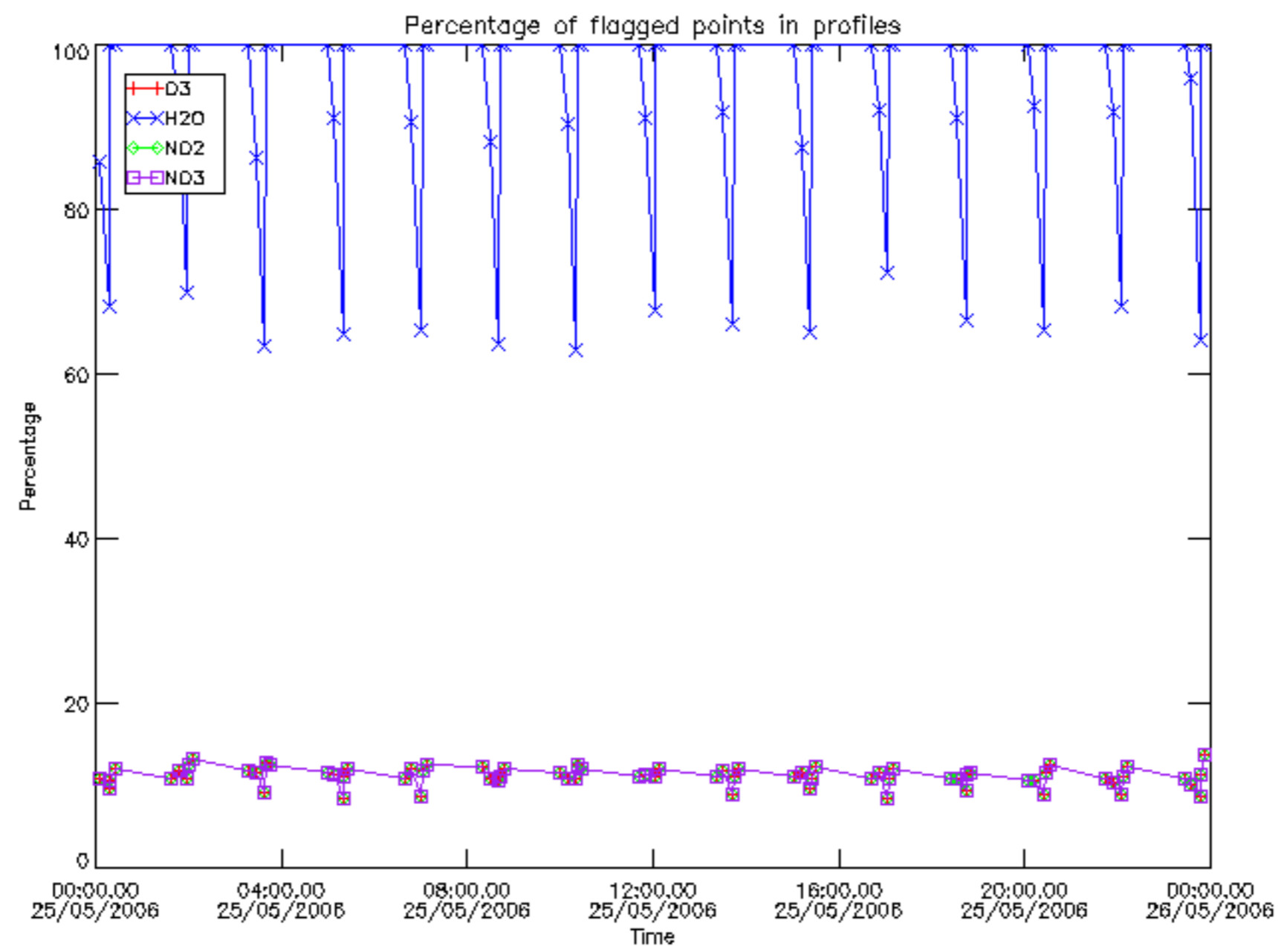
The colorbar represents the latitude.



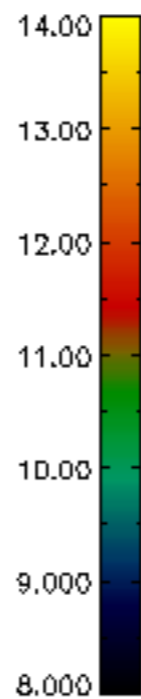
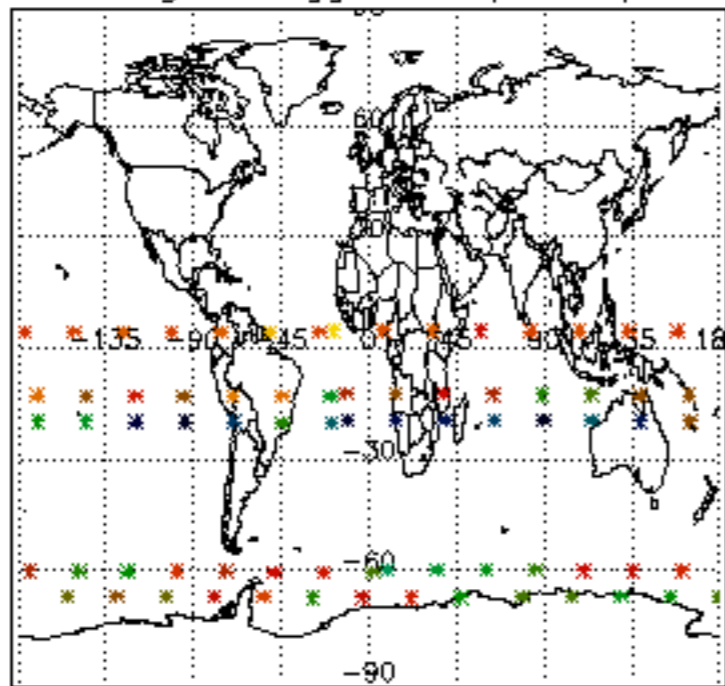
6. Auxiliary Data Files used for the production reported in section 2

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.

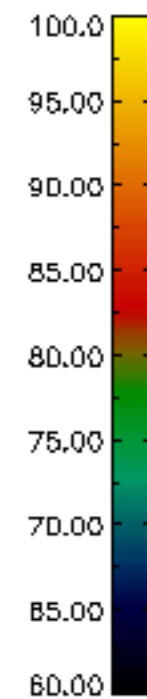
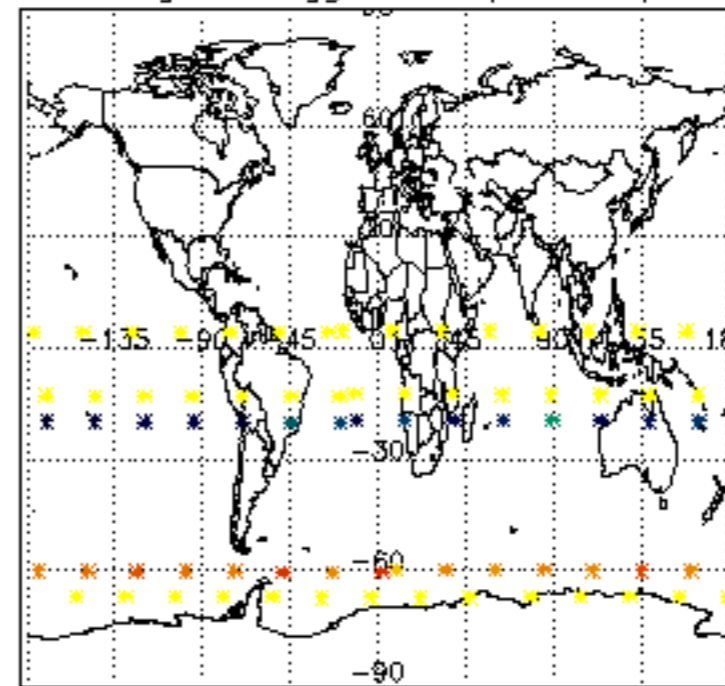
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	25-MAY-2006 00:05:53
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	25-MAY-2006 00:05:53
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	25-MAY-2006 00:05:53



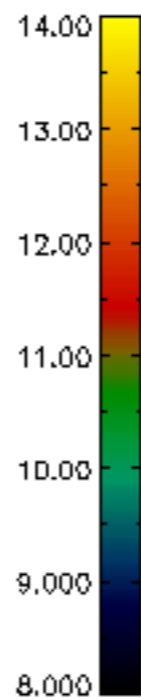
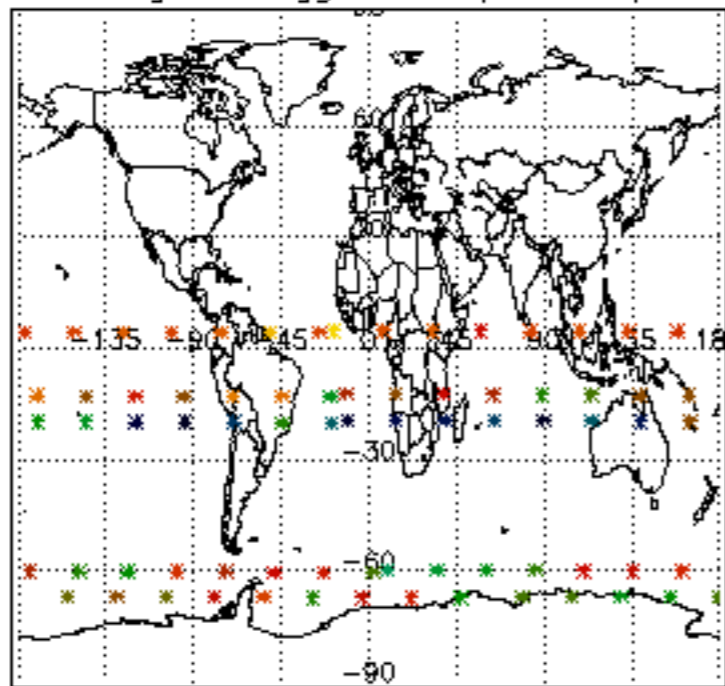
Percentage of flagged data per D3 profile



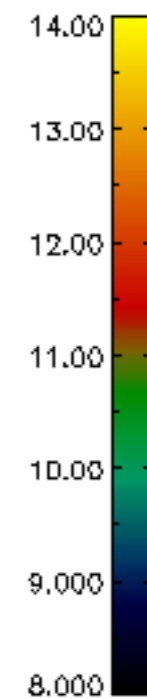
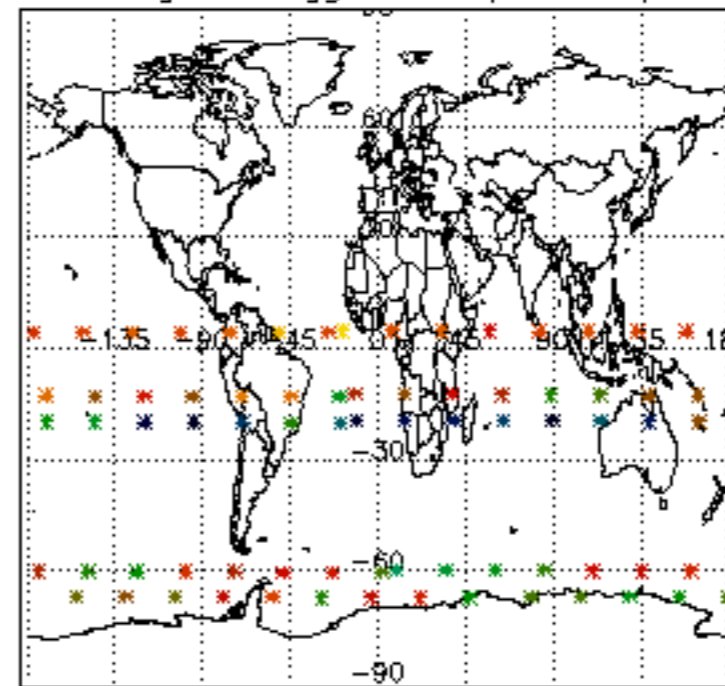
Percentage of flagged data per H2O profile

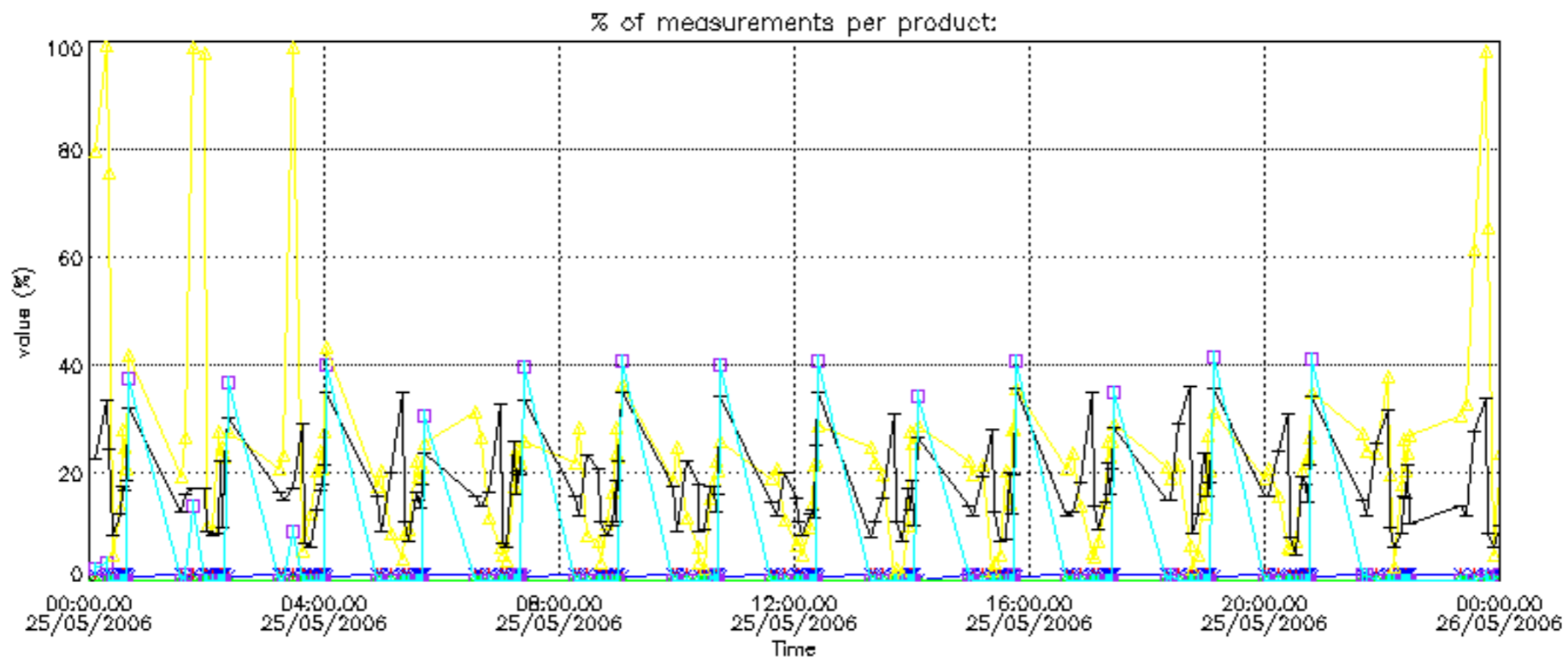


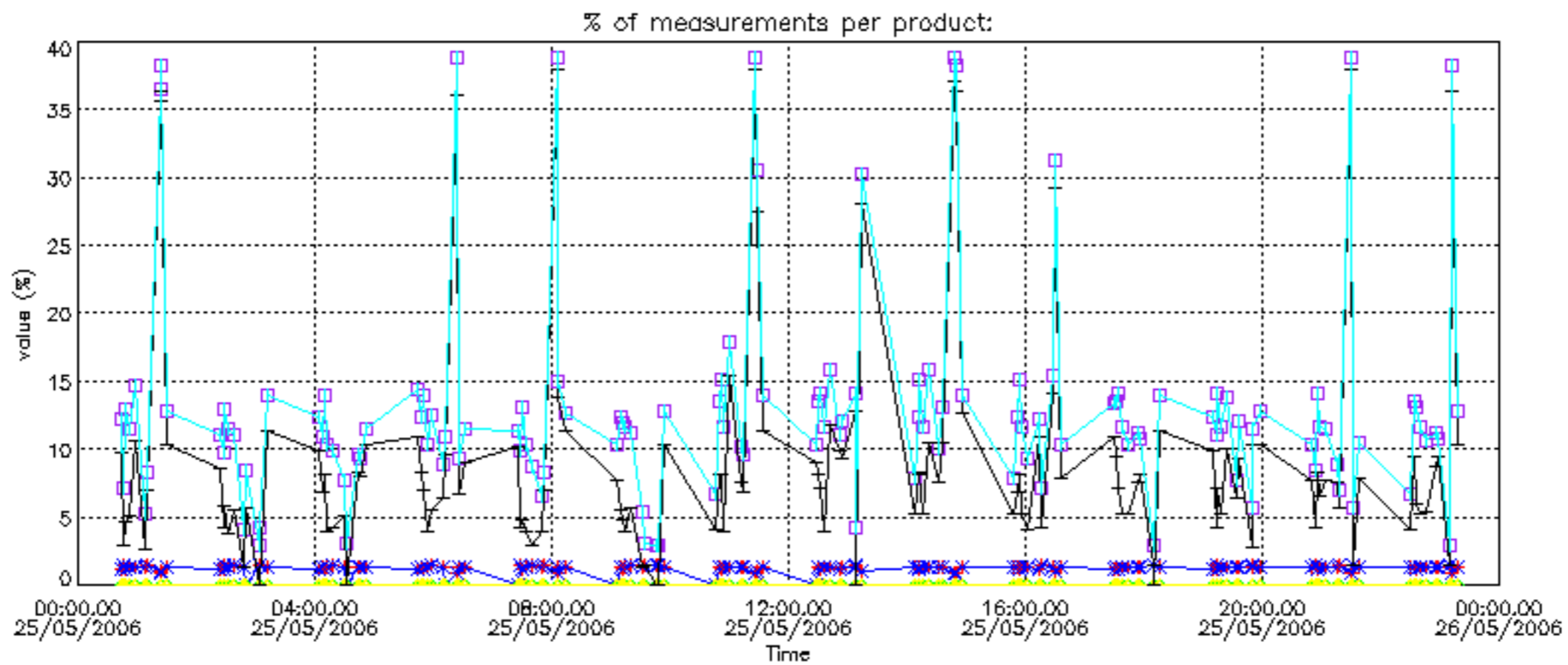
Percentage of flagged data per NO2 profile



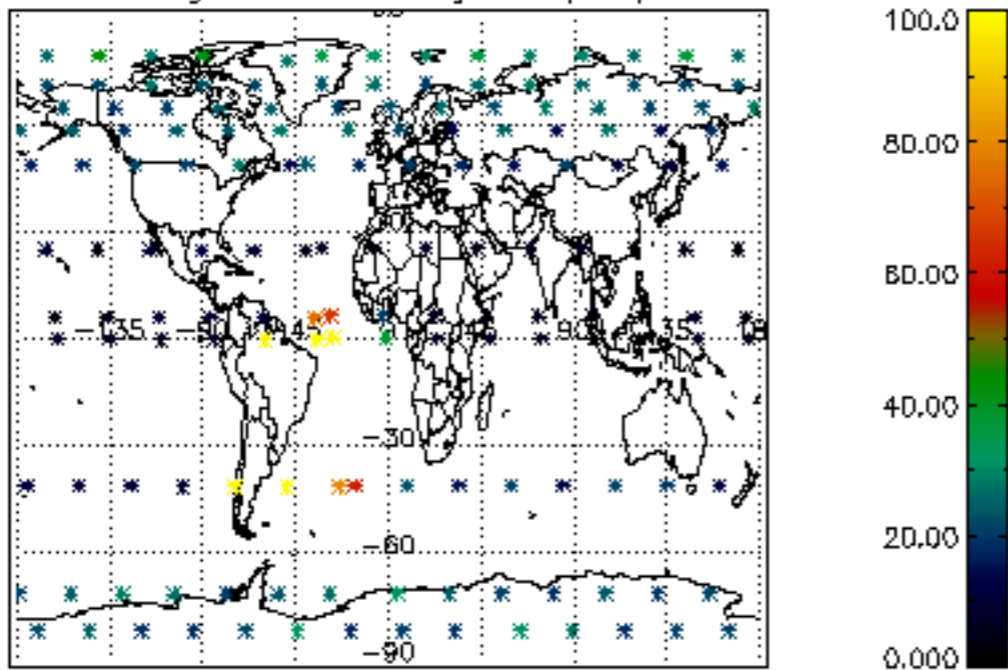
Percentage of flagged data per NO3 profile



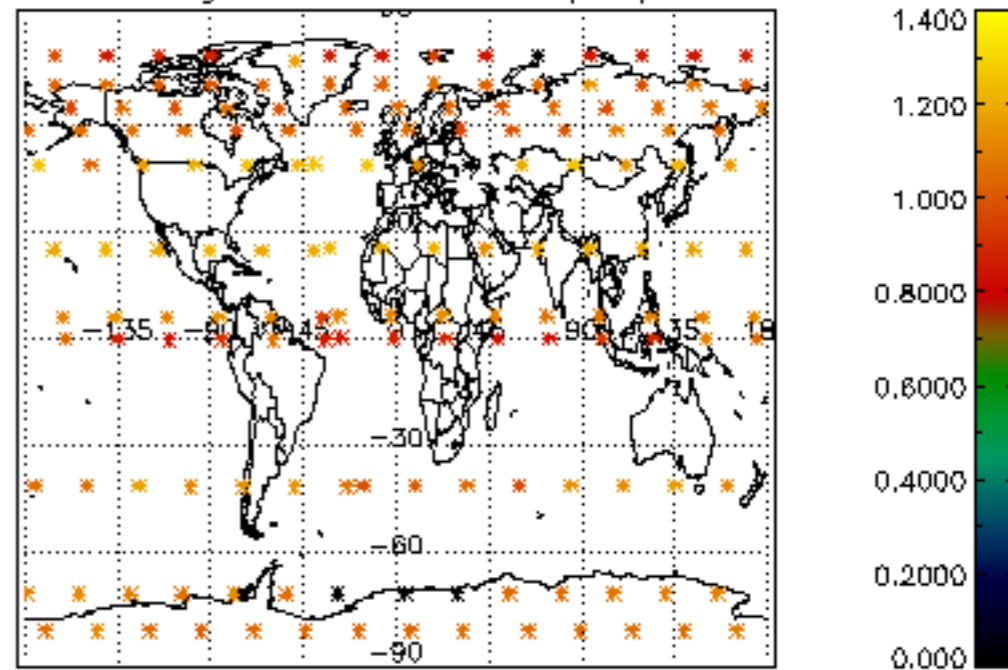




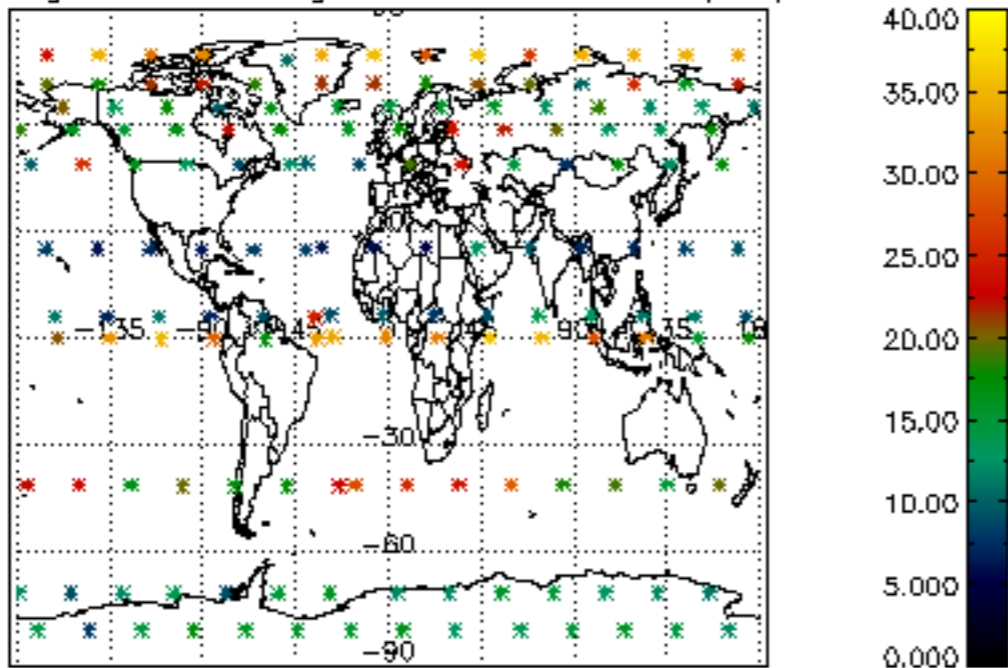
Percentage of cosmic ray hits per profile



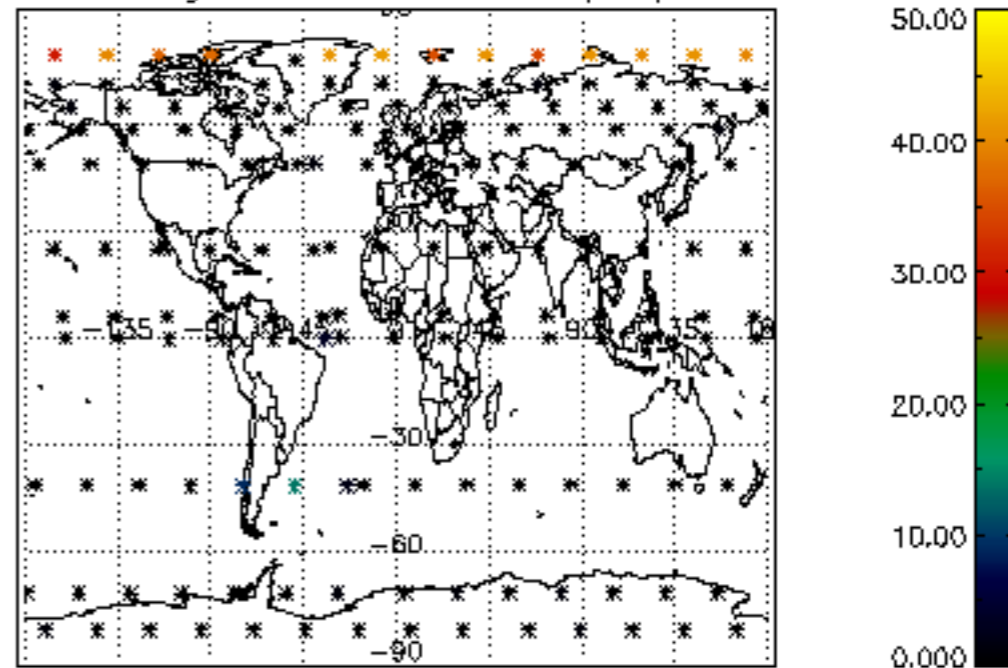
Percentage of datation errors per profile



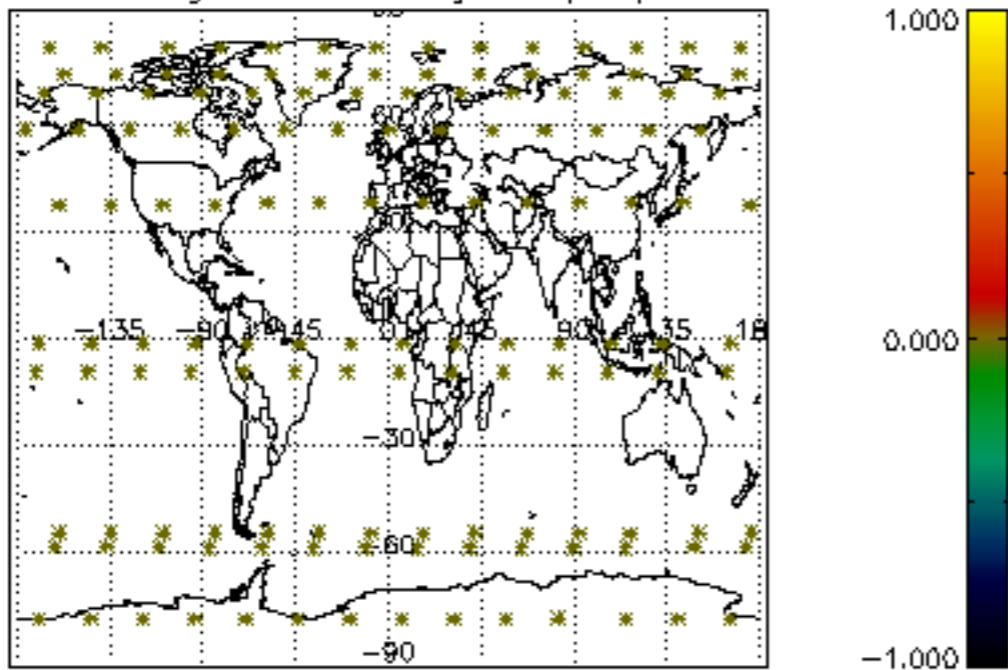
Percentage of star falling outside central band per profile



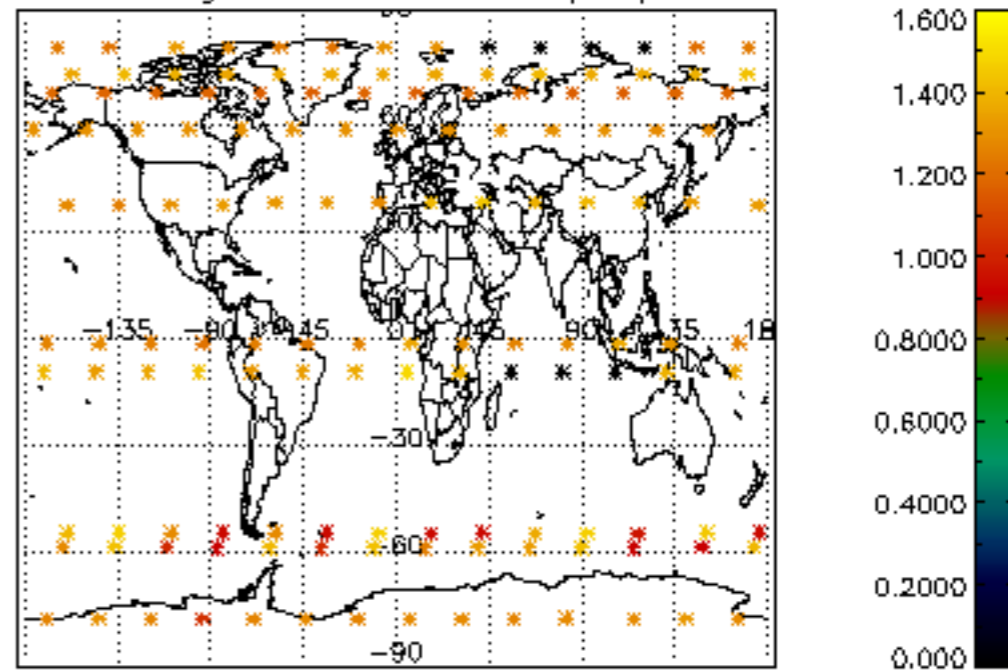
Percentage of saturation errors per profile



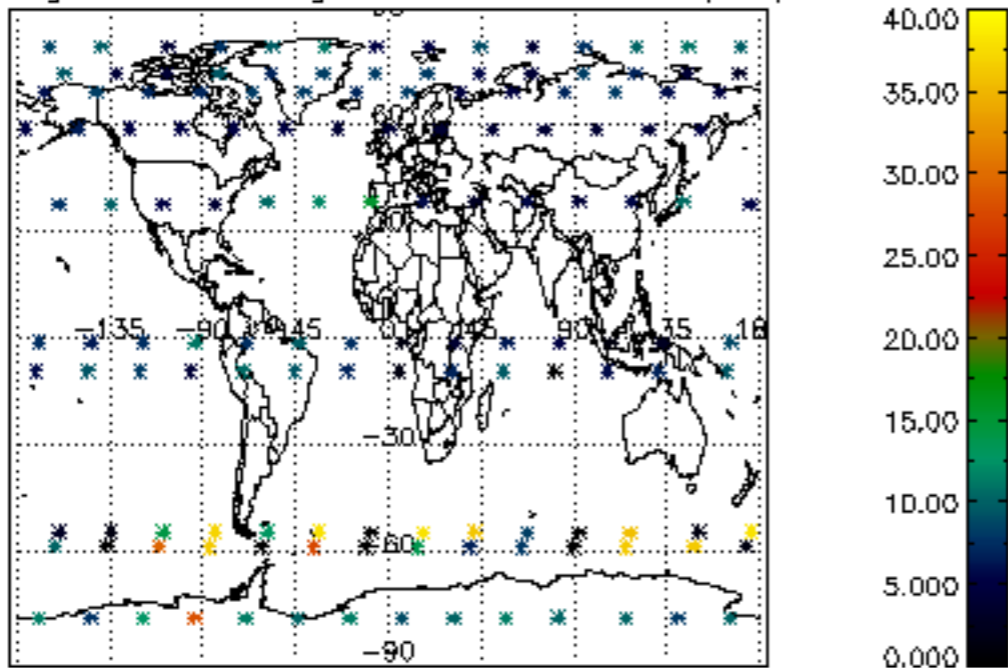
Percentage of cosmic ray hits per profile



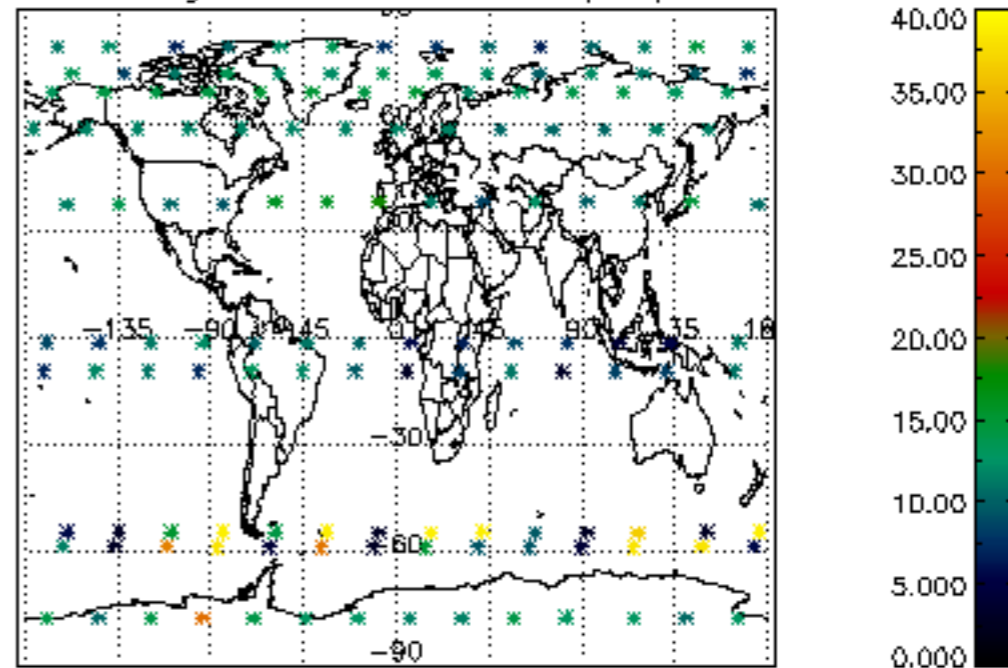
Percentage of datation errors per profile

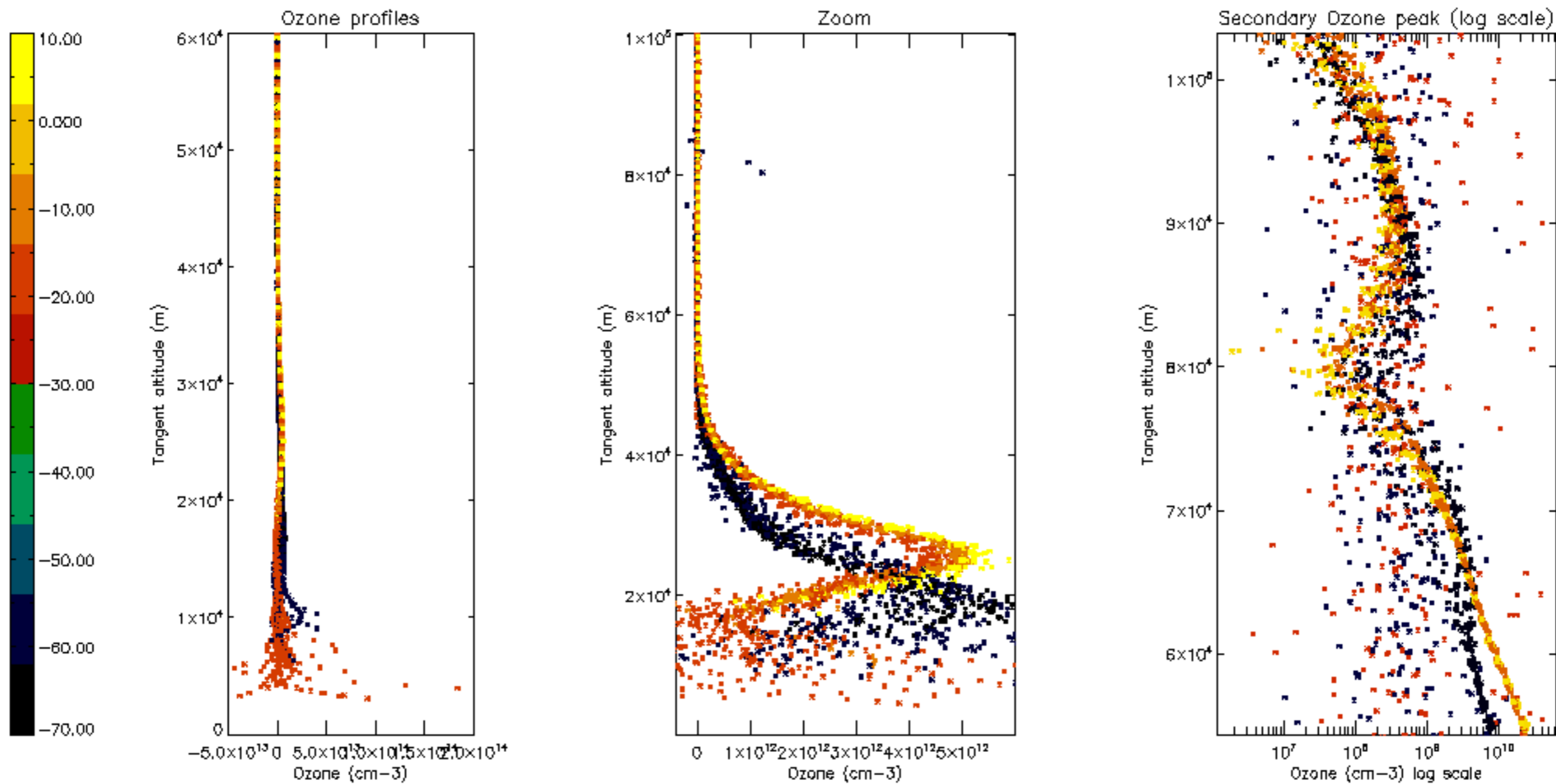


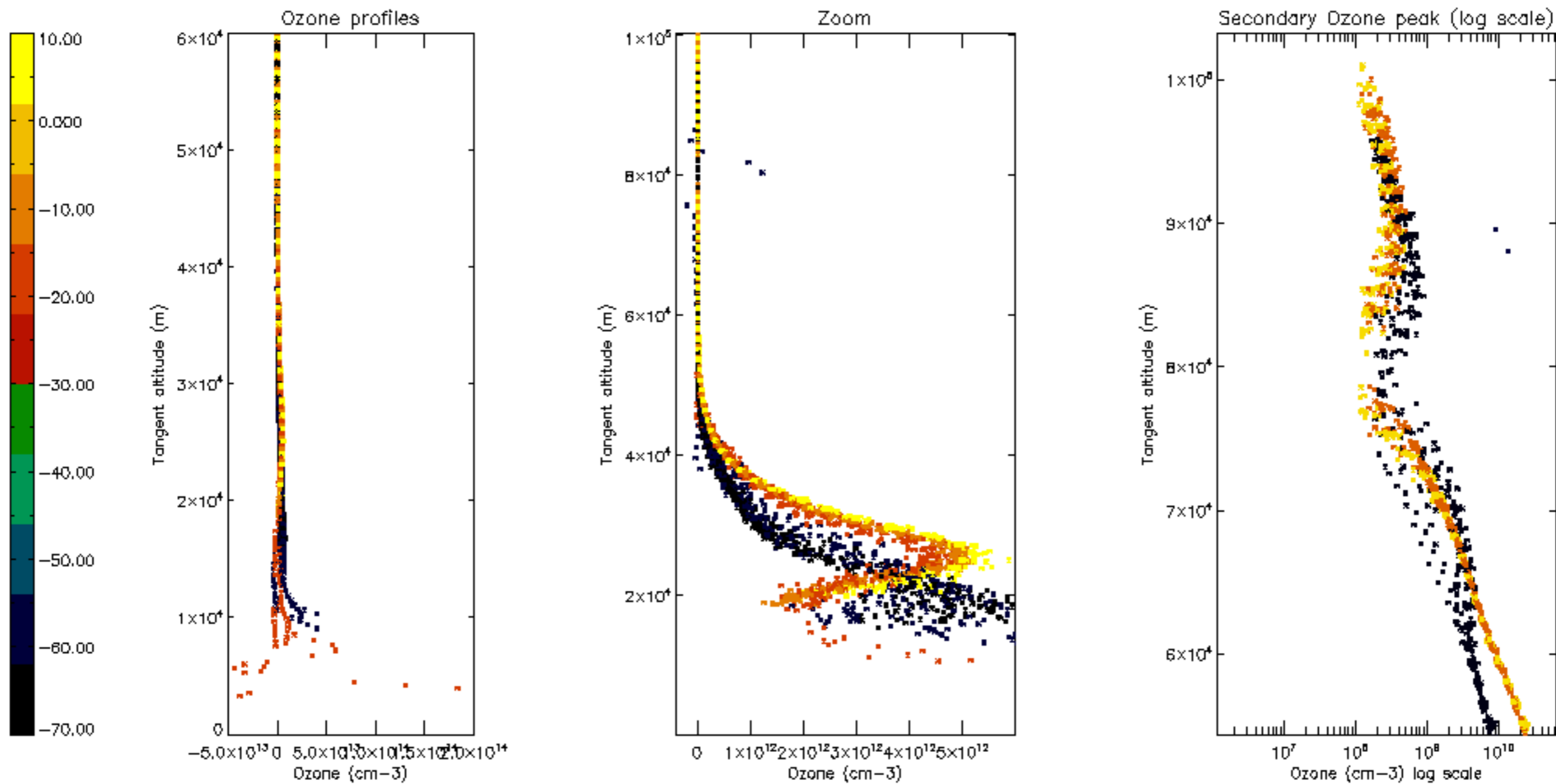
Percentage of star falling outside central band per profile

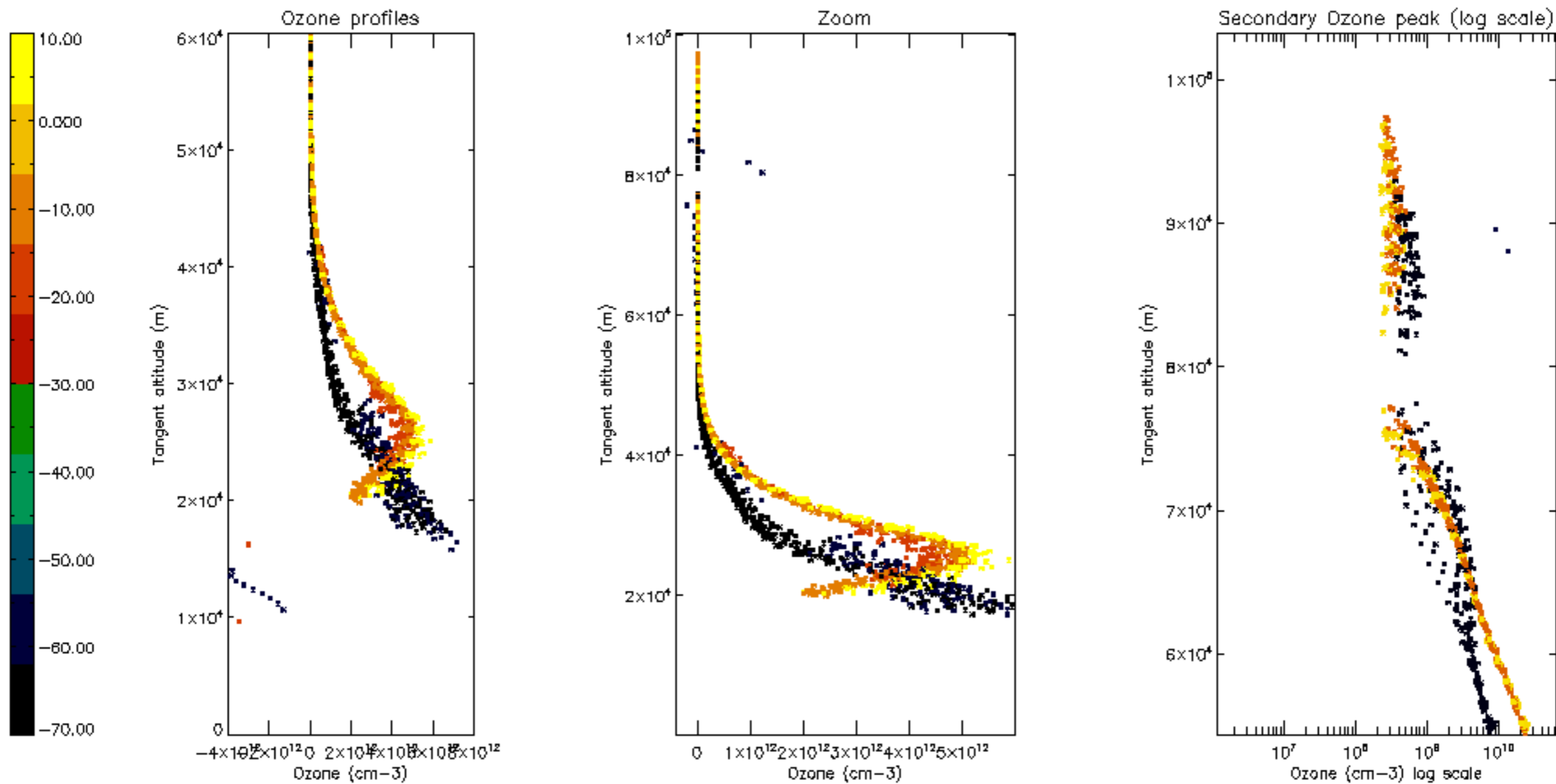


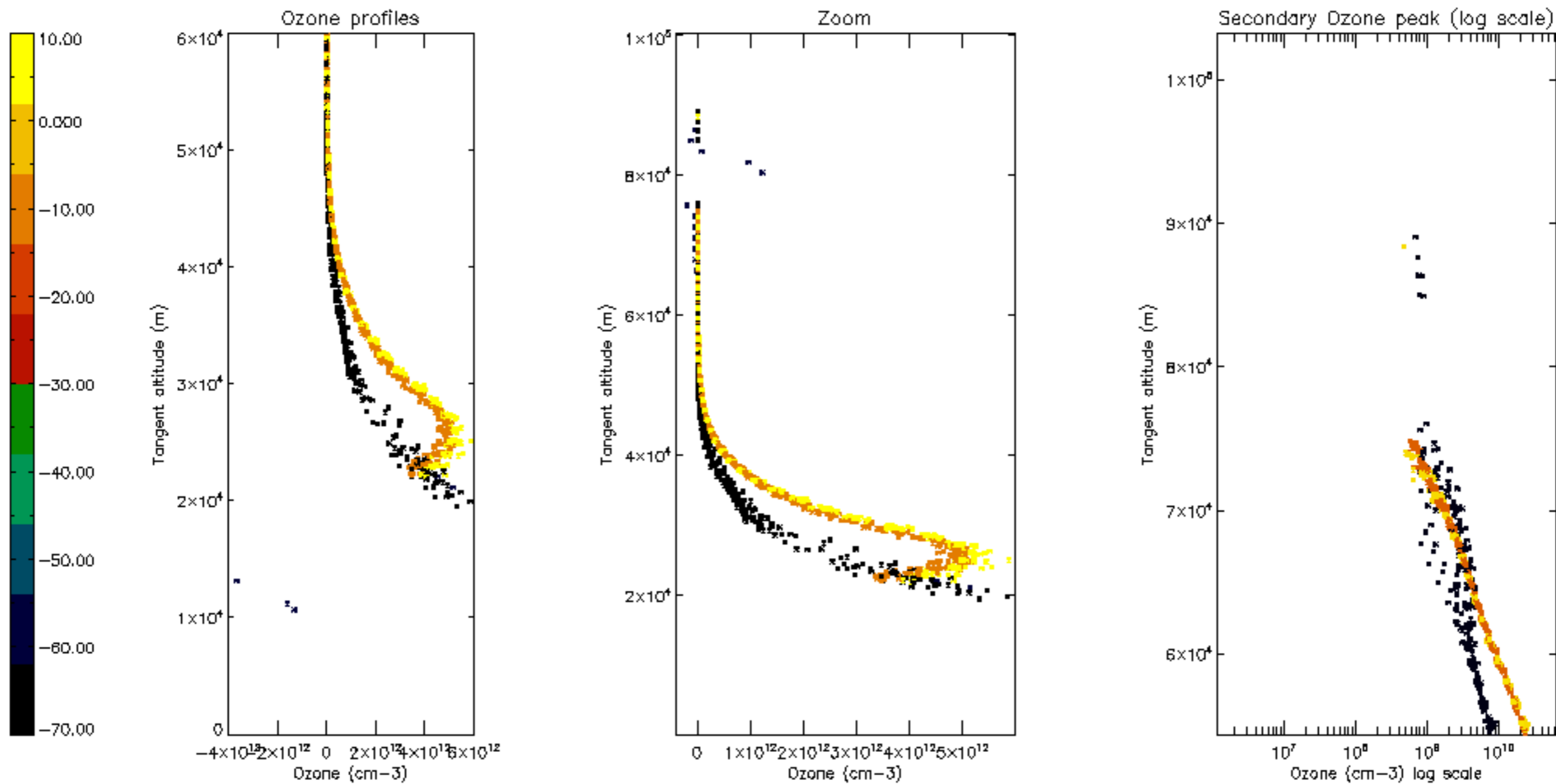
Percentage of saturation errors per profile

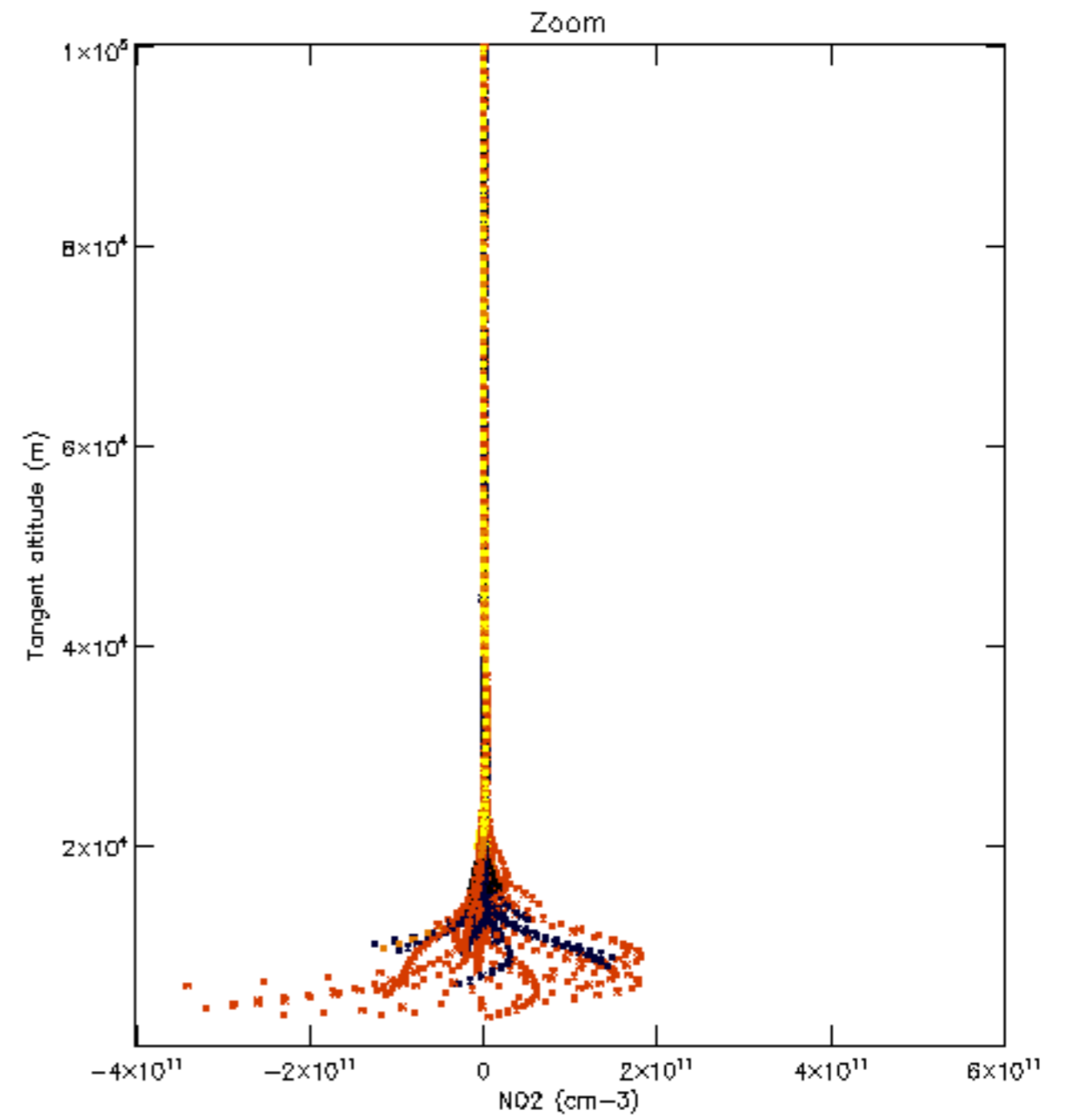
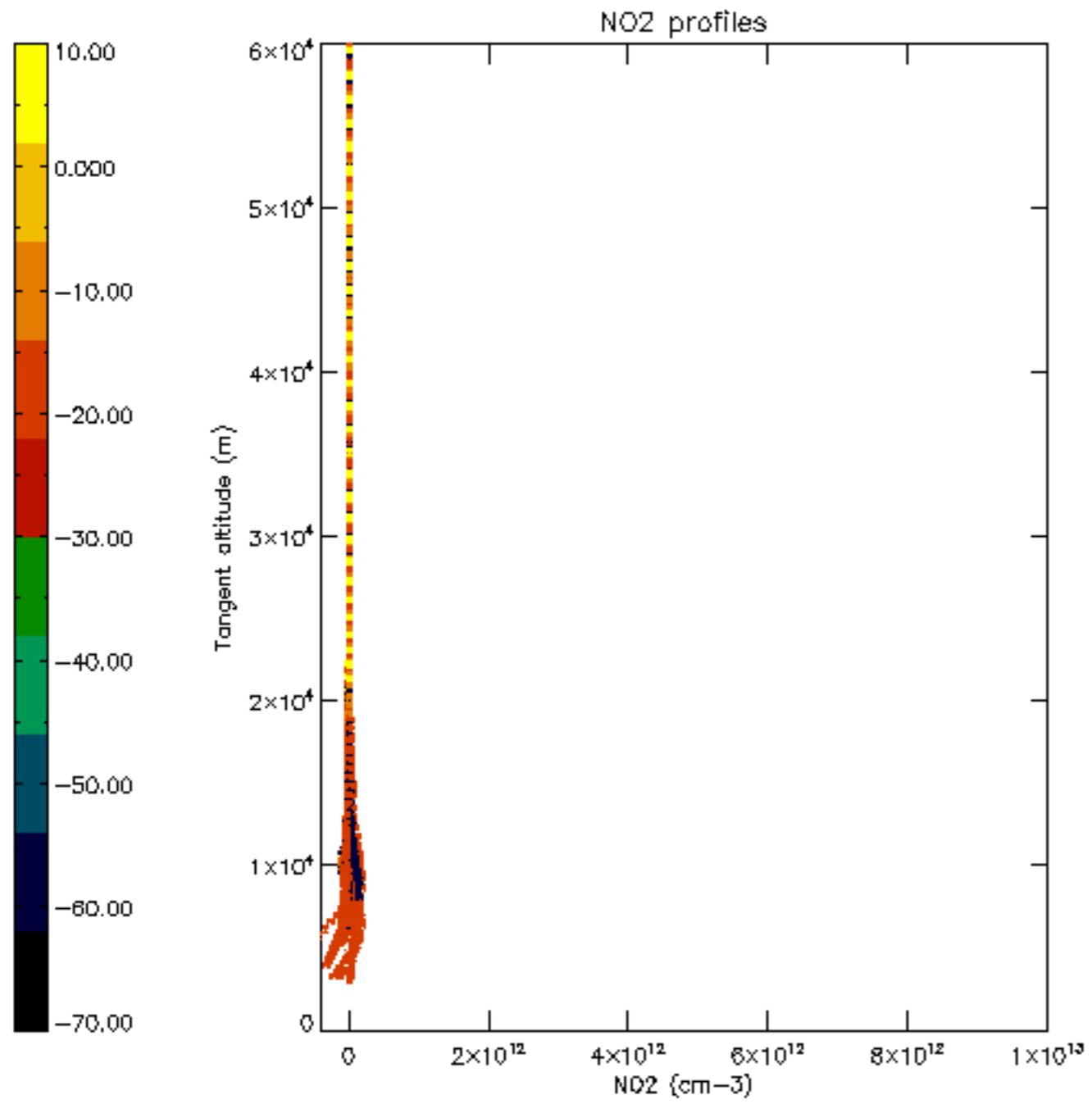


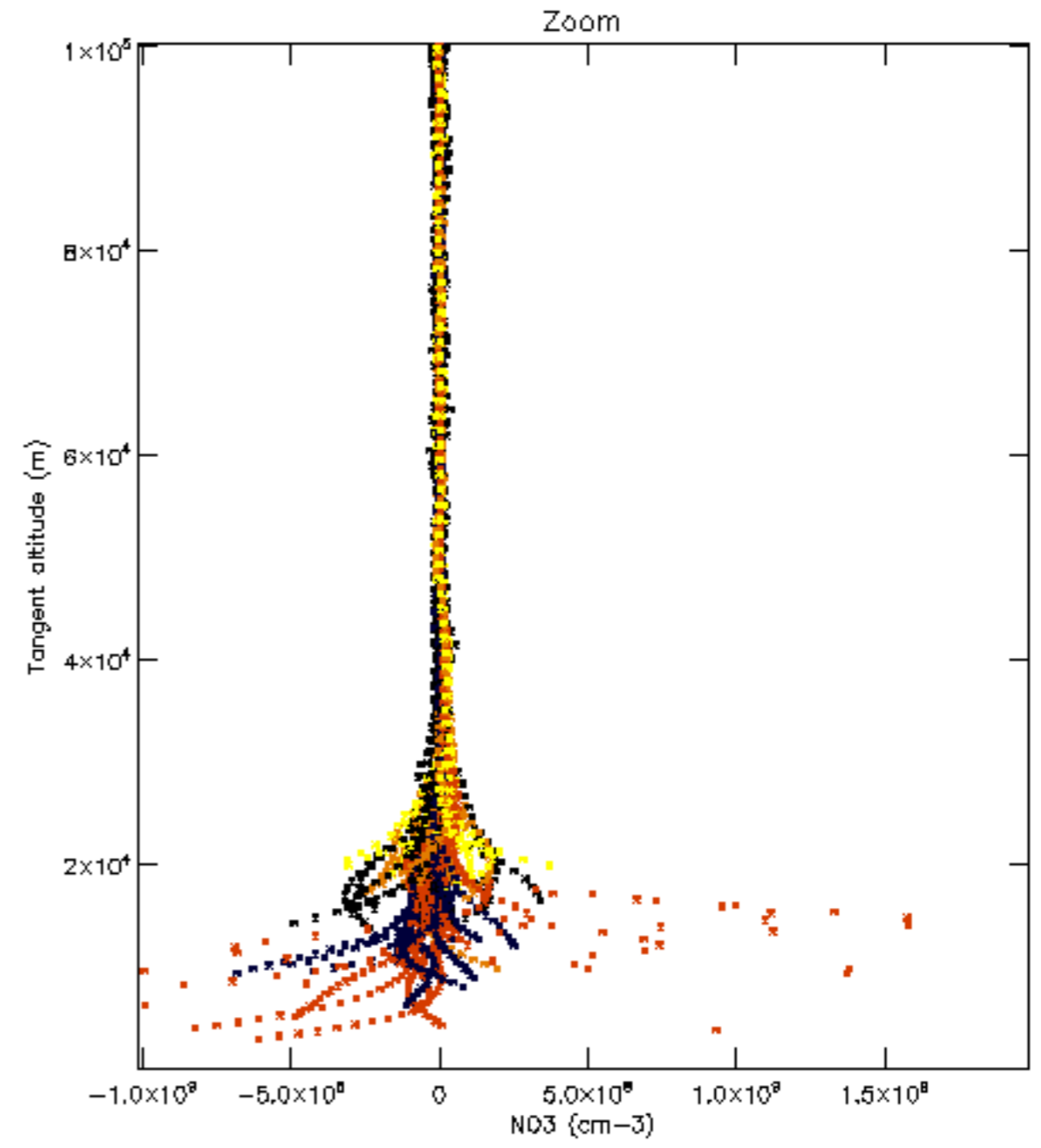
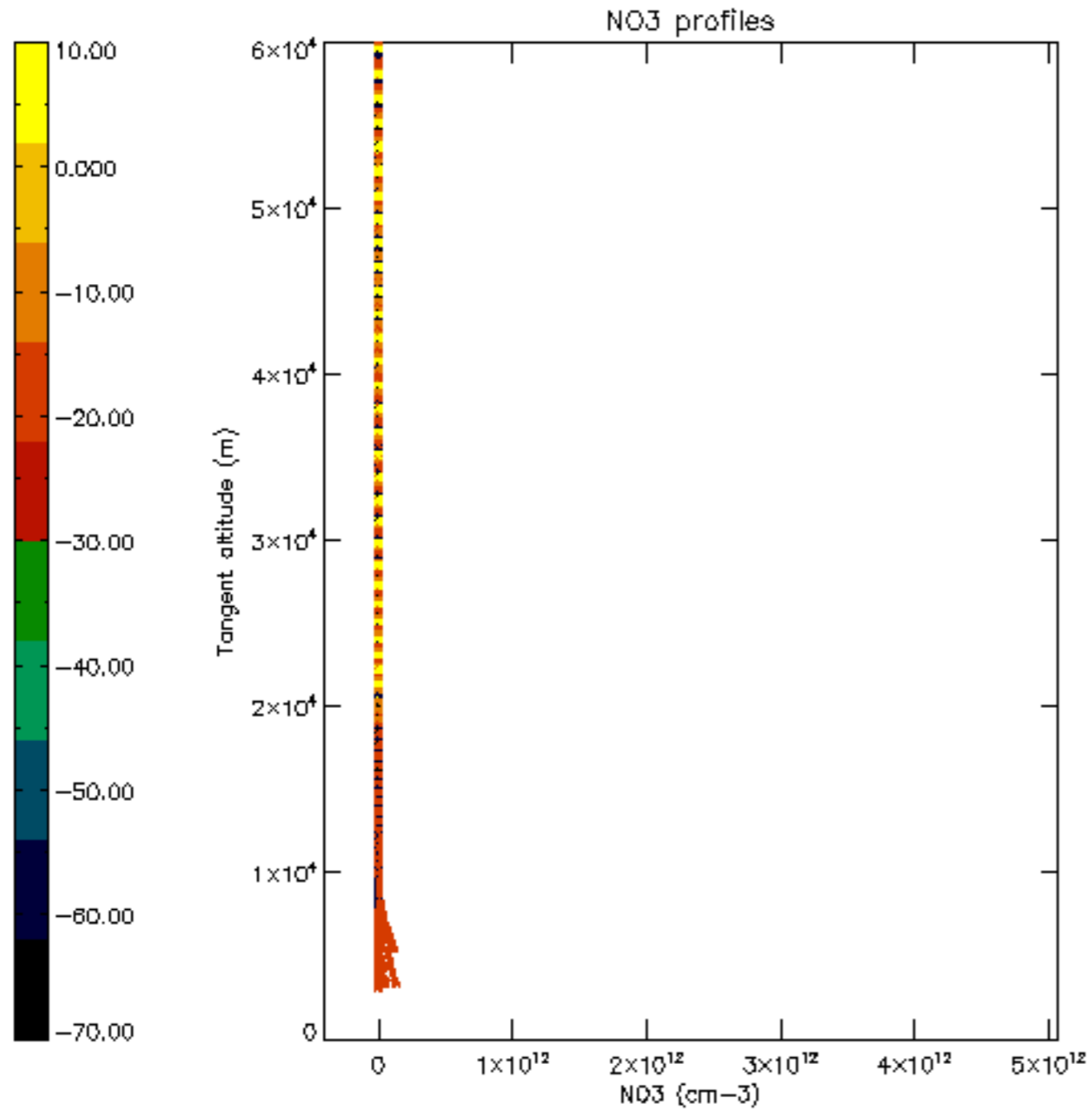


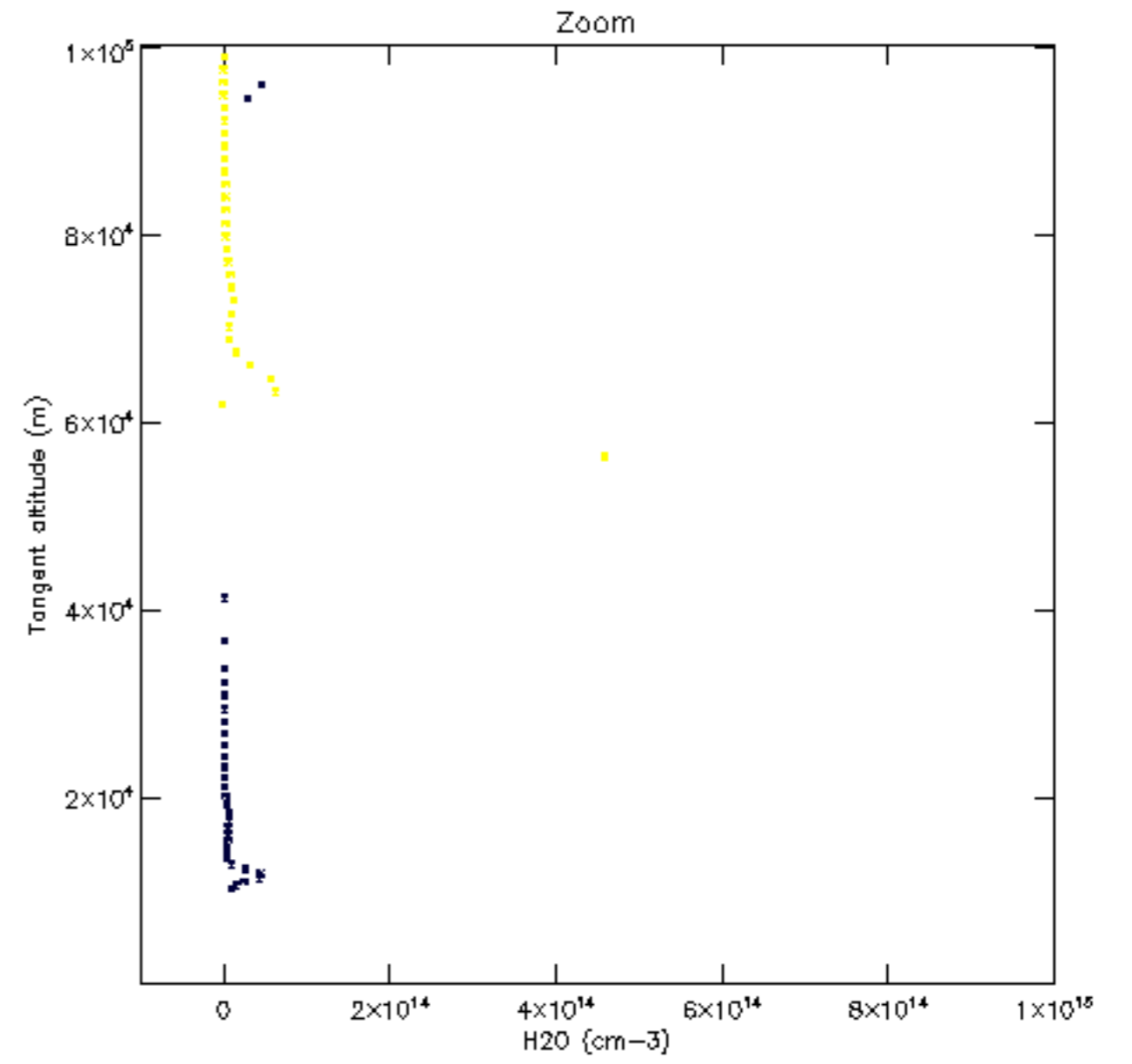
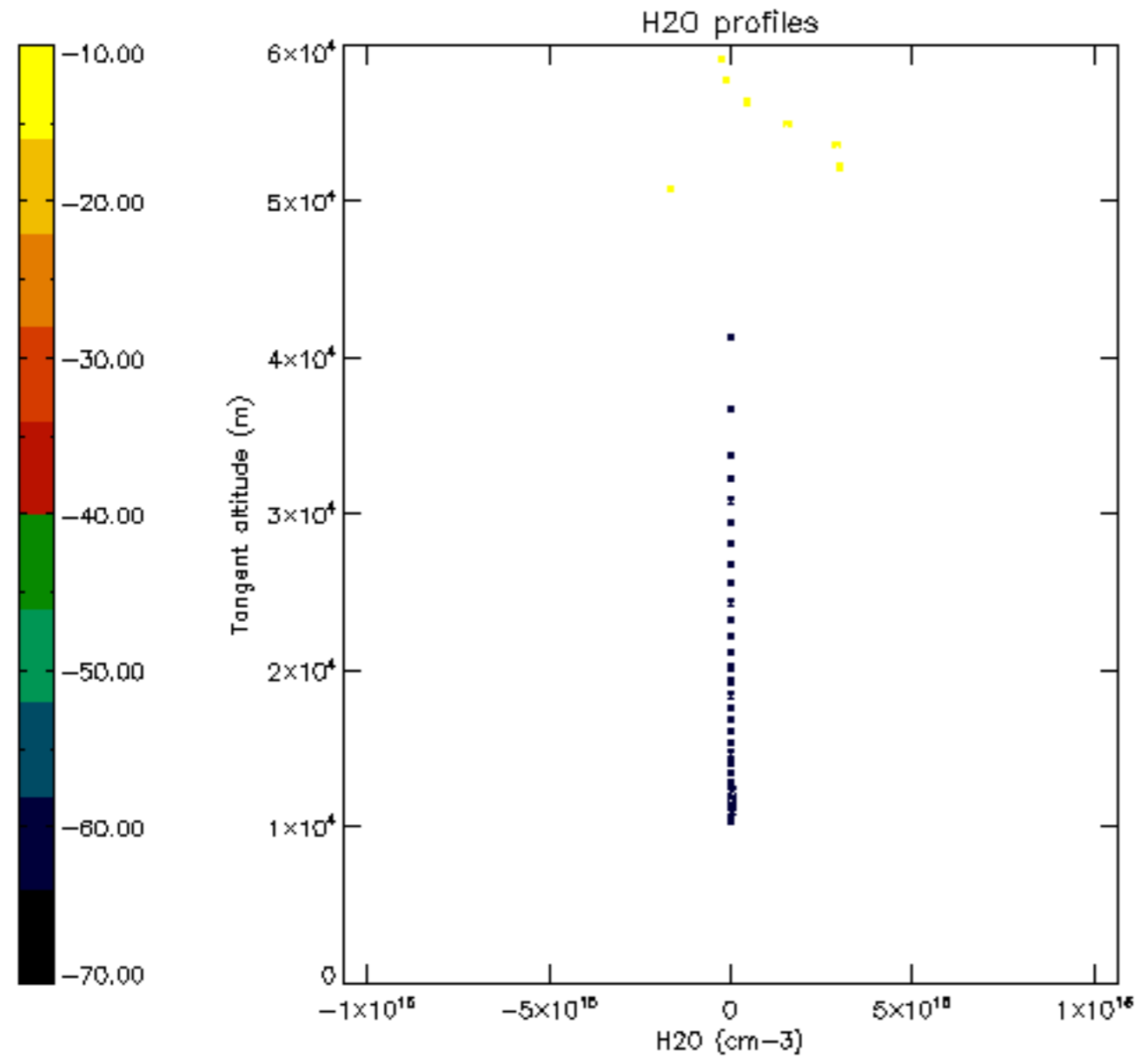


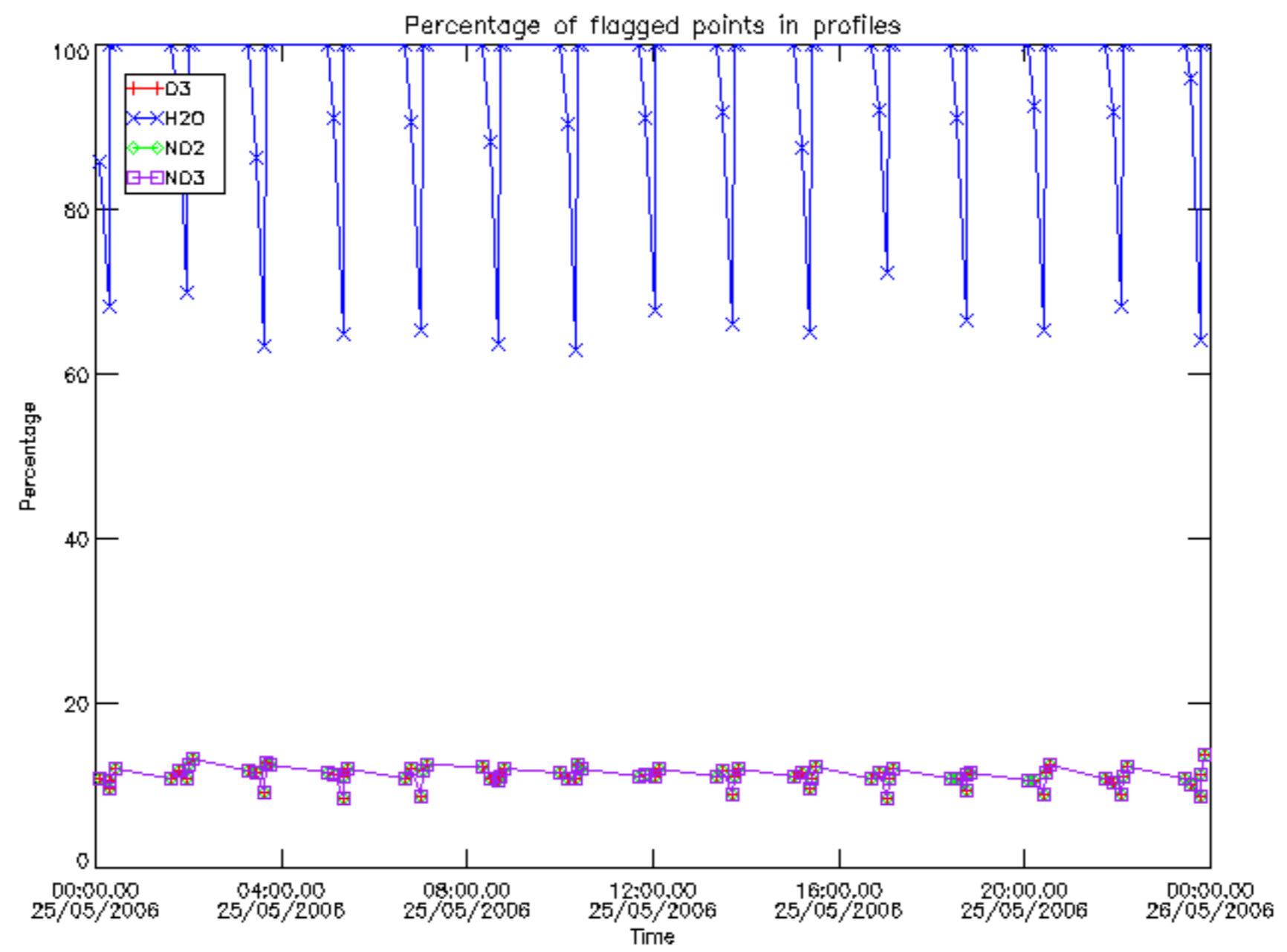




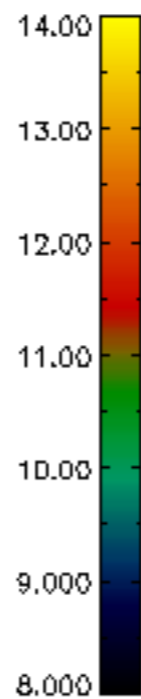
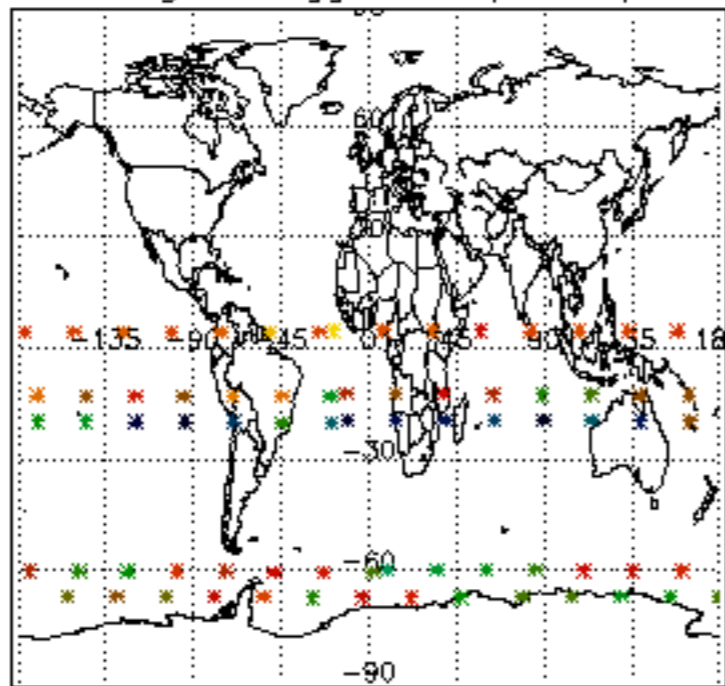




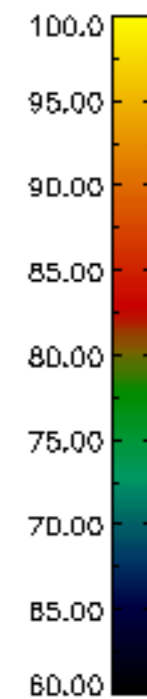
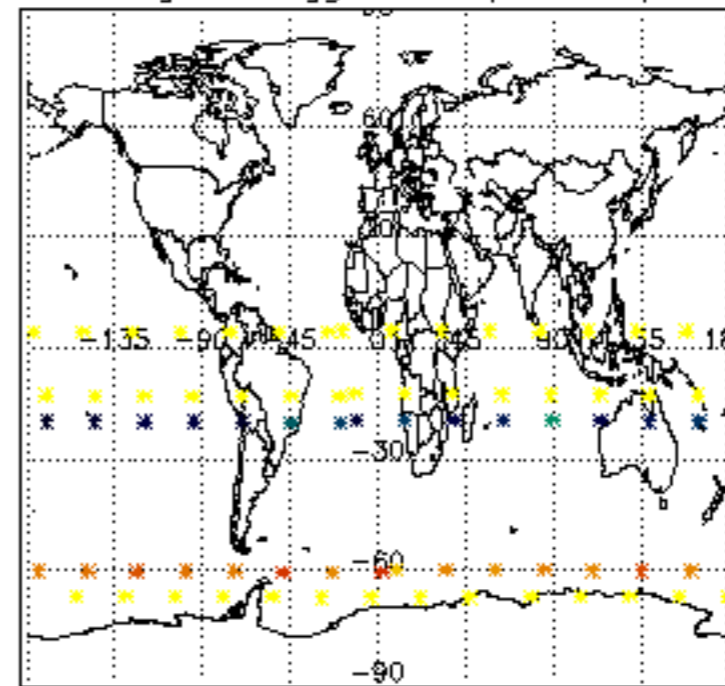




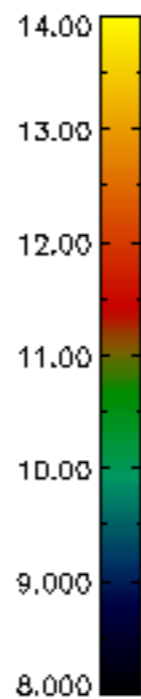
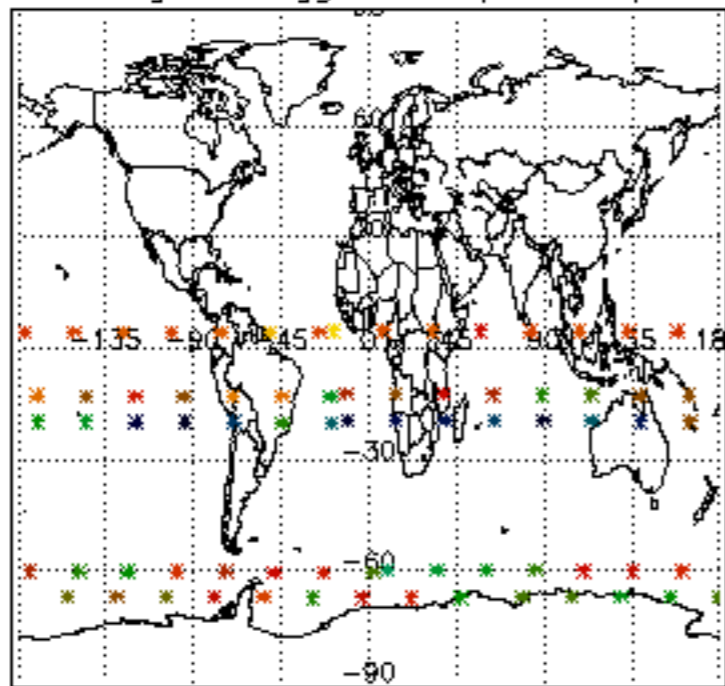
Percentage of flagged data per D3 profile



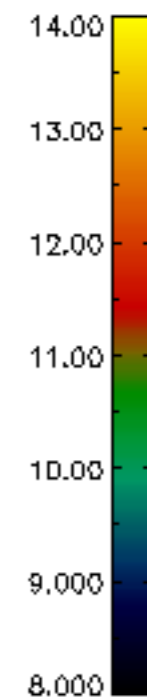
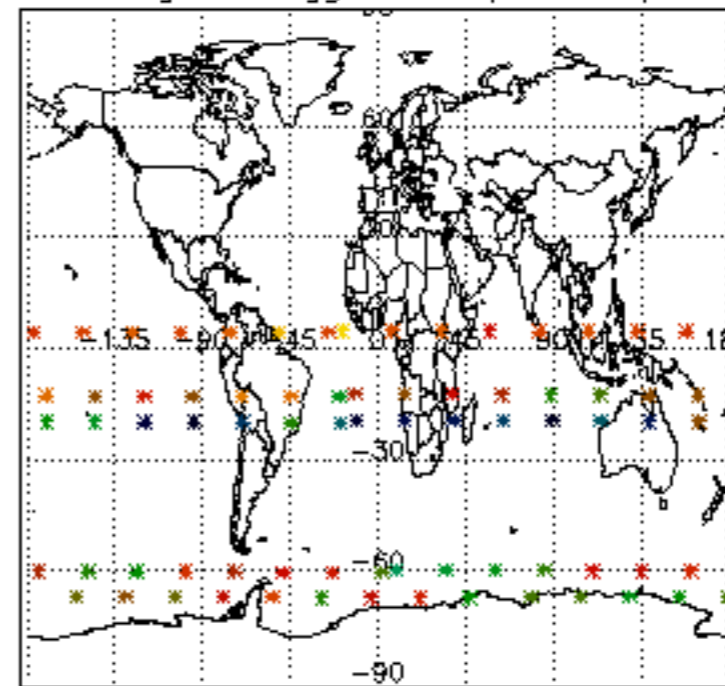
Percentage of flagged data per H2O profile

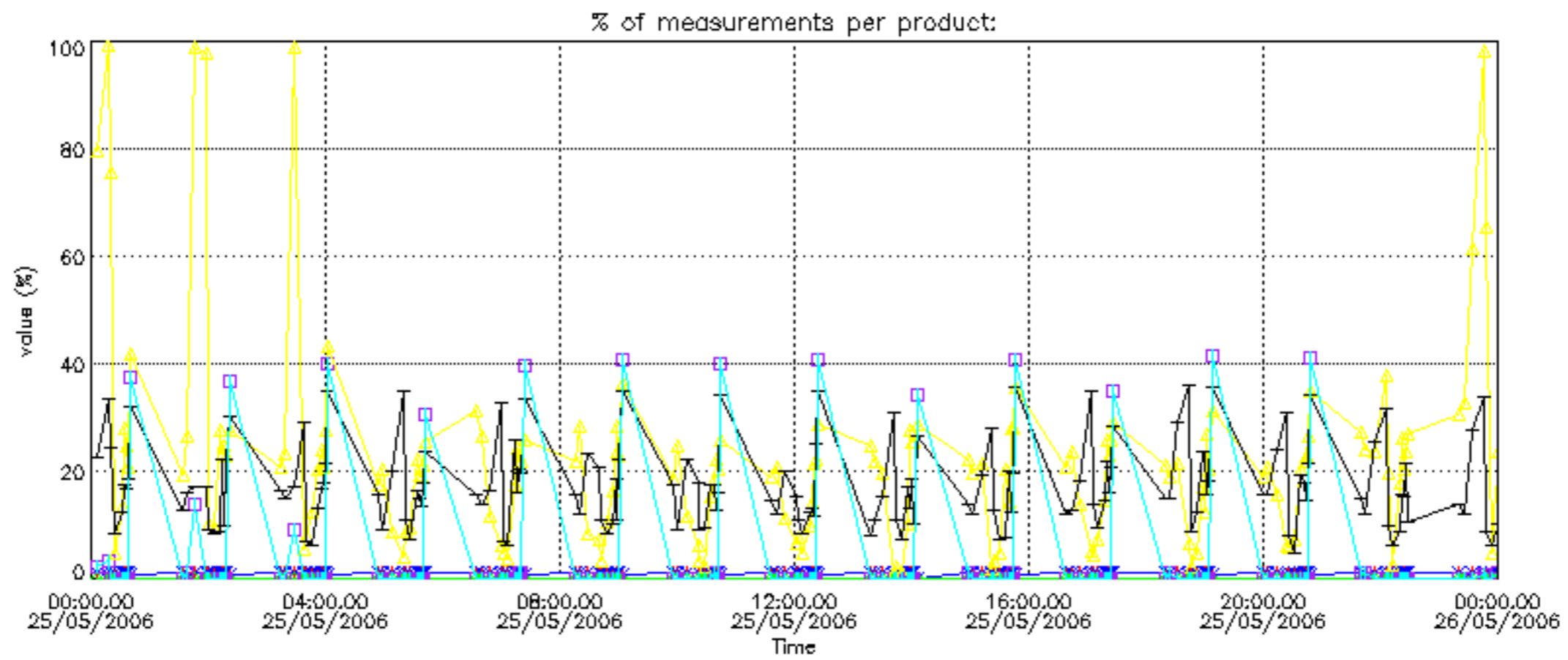


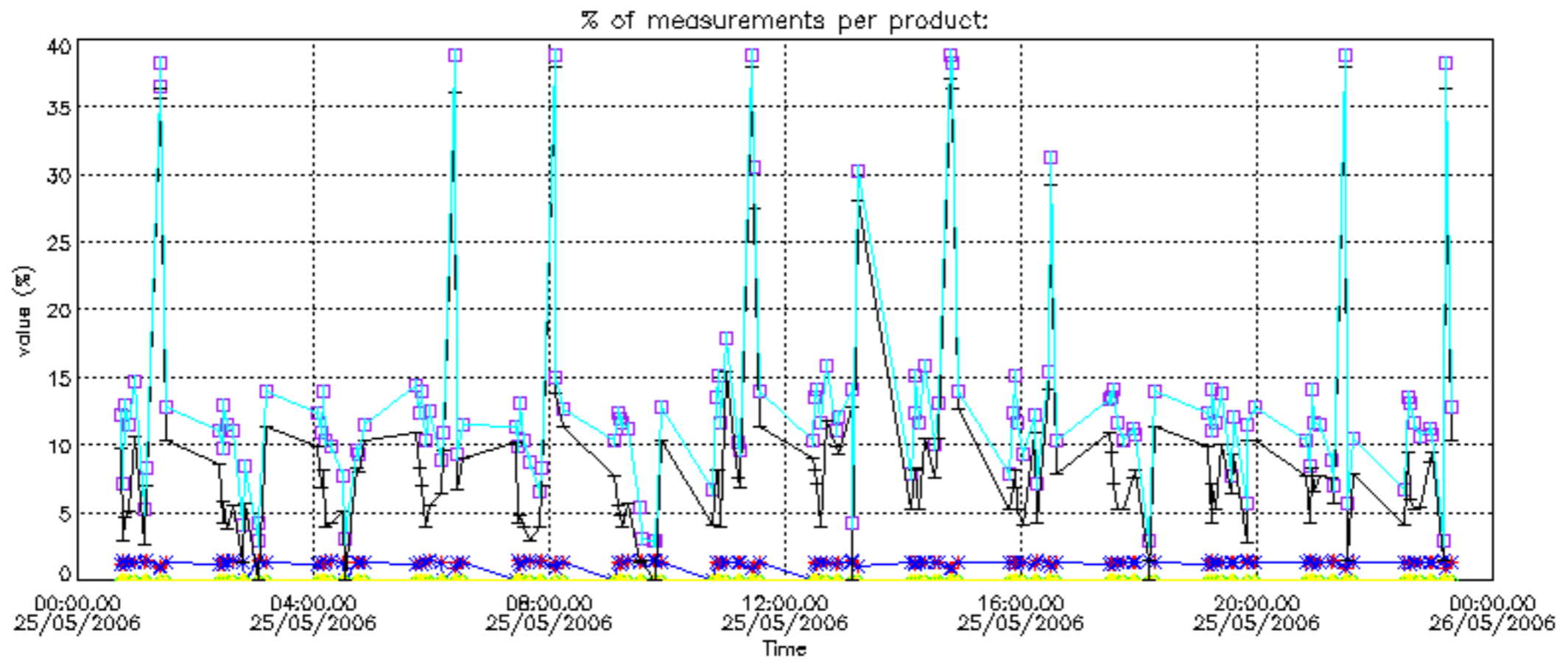
Percentage of flagged data per NO2 profile



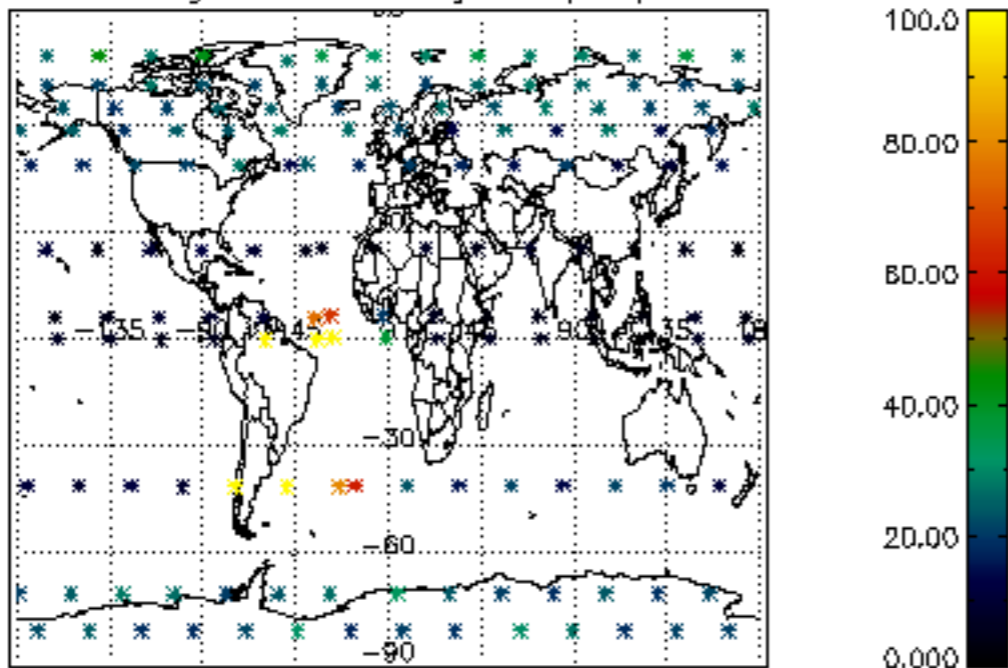
Percentage of flagged data per NO3 profile



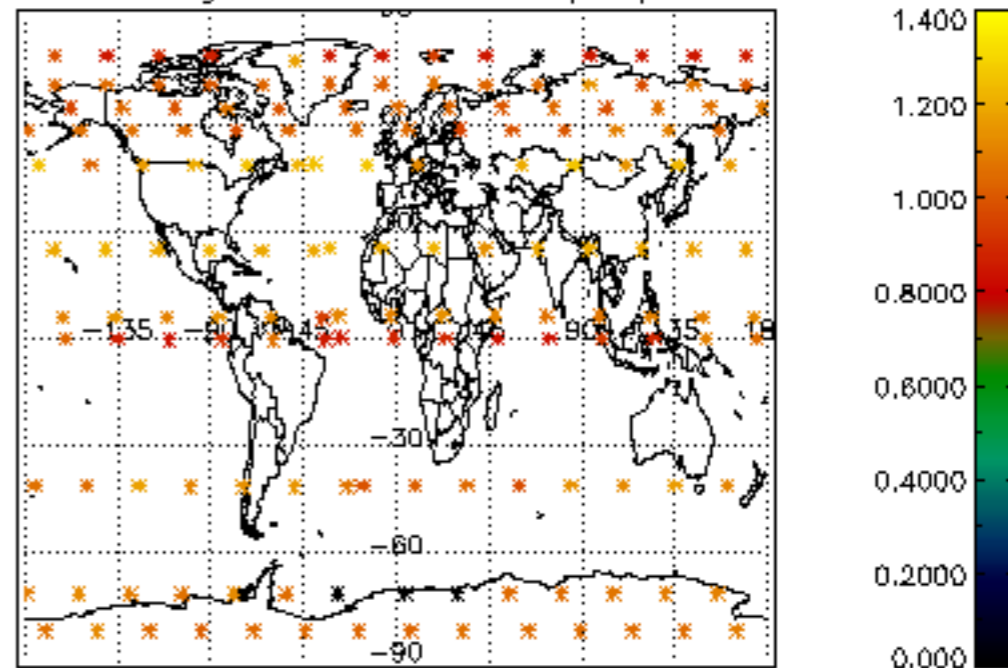




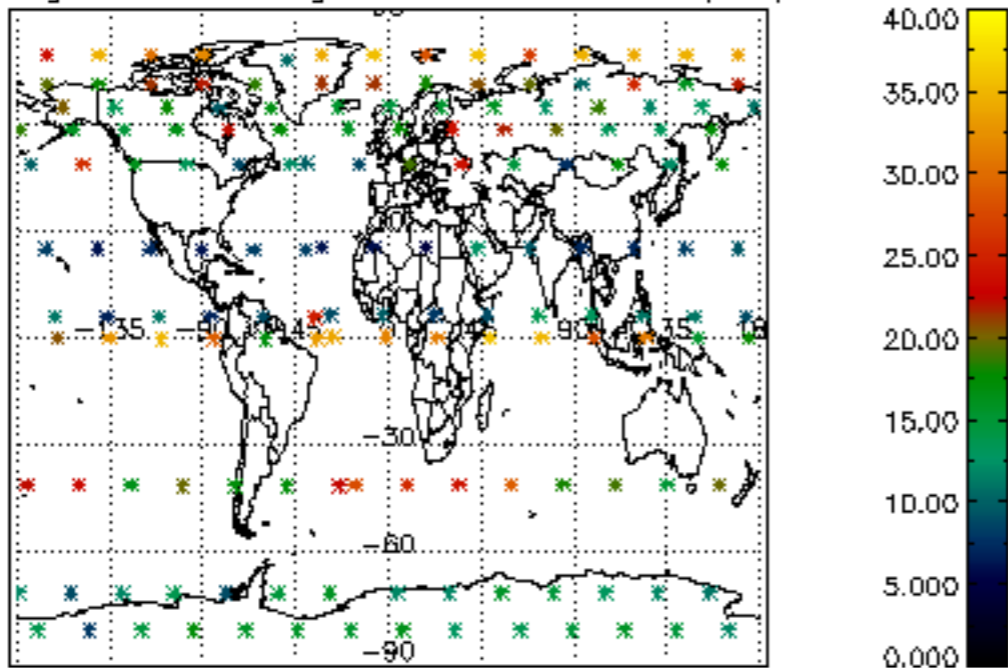
Percentage of cosmic ray hits per profile



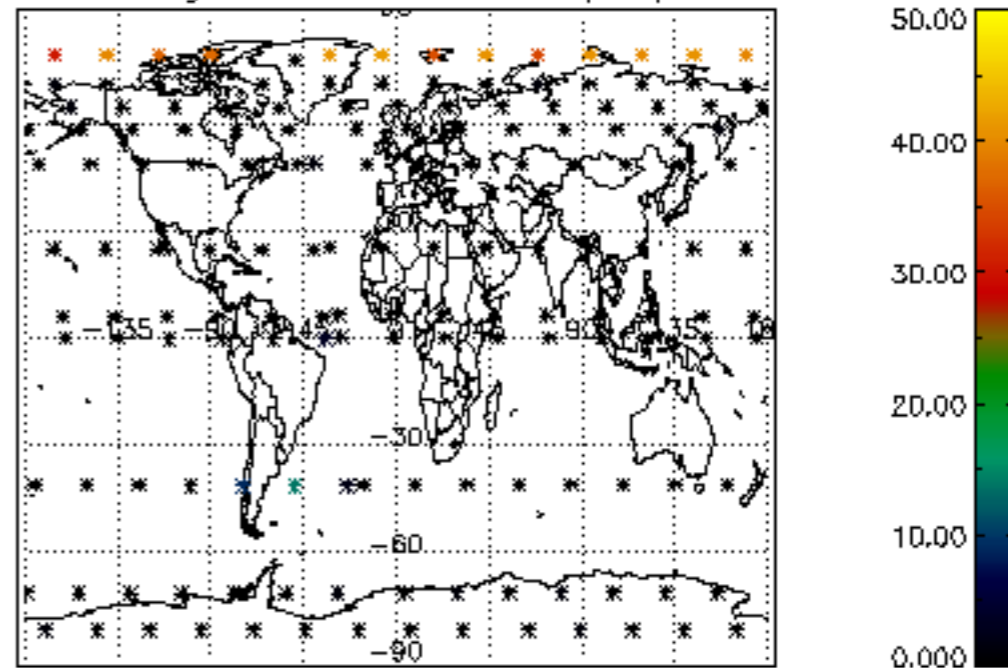
Percentage of datation errors per profile



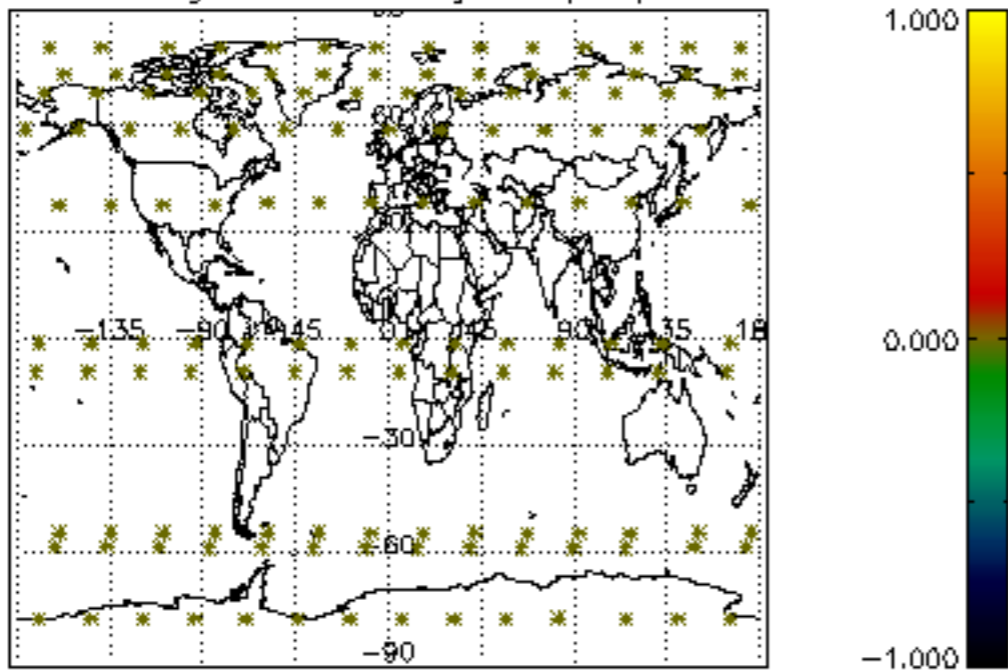
Percentage of star falling outside central band per profile



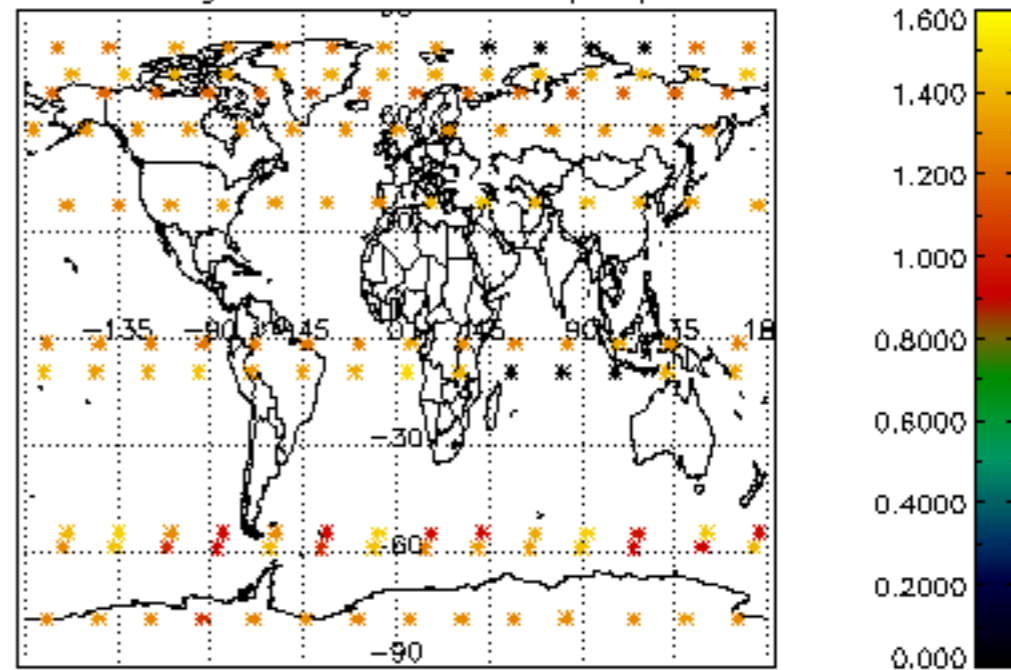
Percentage of saturation errors per profile



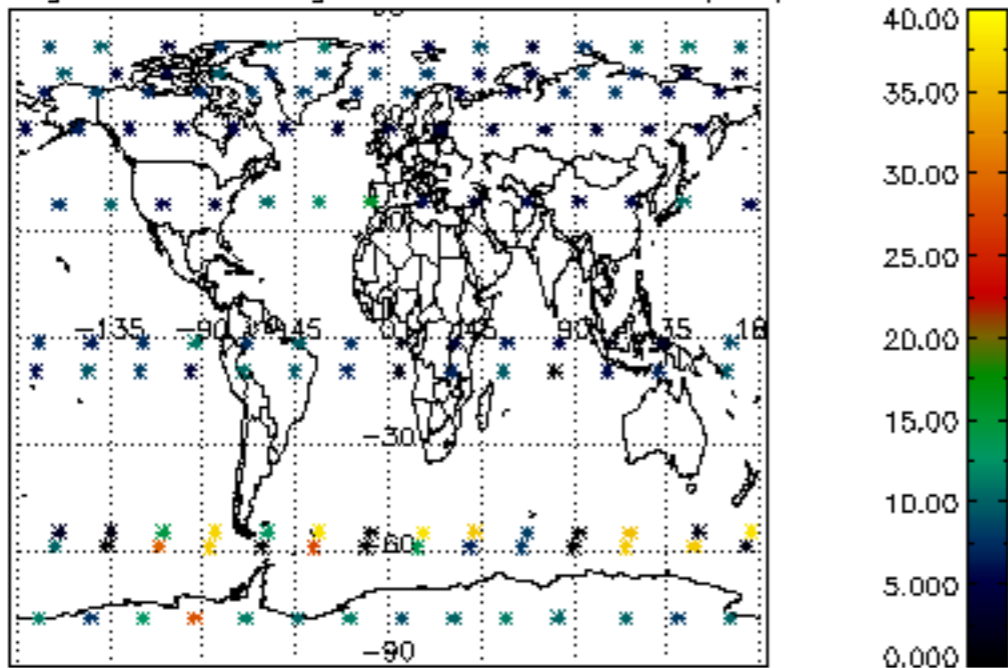
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

