

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	22APR2013 15:46:05
Data source version	GOMOS/6.01
Start time of products	15-02-2006 (15FEB2006 00:00:00)
Stop time of products	16-02-2006 (16FEB2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	323
Nb of prods with errors	2

2. Summary of processed GOM_NL__2P products.

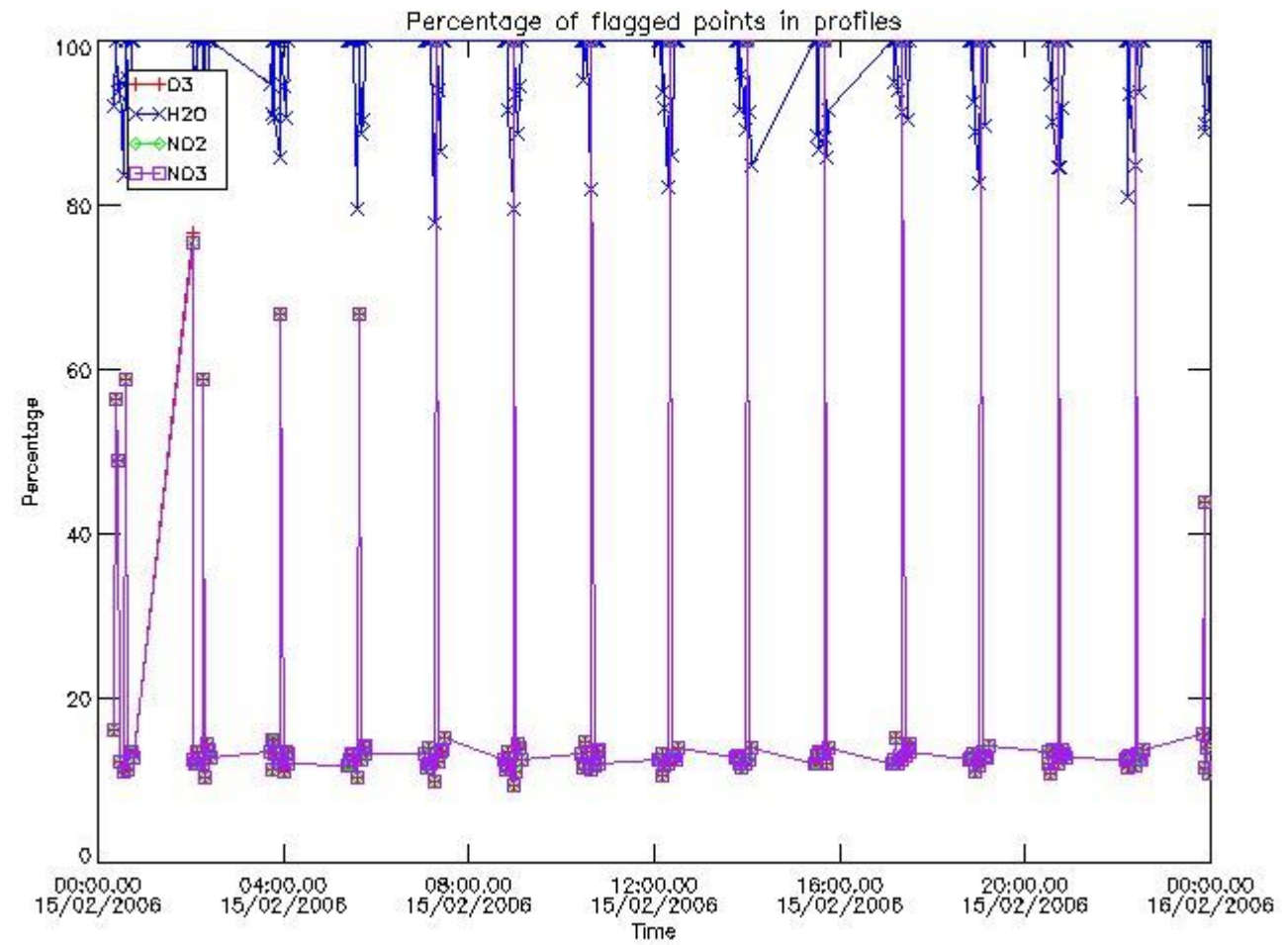
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060215_000725_000000322045_00116_20711_8713.N1	15-FEB-2006 00:07:25	Bright	32.000	168	17Zet Aql	2.9860	11000.	64	20711	No
2	GOM_NL__2PRFIN20060215_001838_000000422045_00116_20711_8714.N1	15-FEB-2006 00:18:38	Twilight	41.500	57	34Sig Sgr	2.0660	26000.	83	20711	No
3	GOM_NL__2PRFIN20060215_002123_000000382045_00116_20711_8715.N1	15-FEB-2006 00:21:23	Dark	38.000	38	20Eps Sgr	1.8360	11000.	76	20711	No
4	GOM_NL__2PRFIN20060215_002331_000000442045_00116_20711_8716.N1	15-FEB-2006 00:23:31	Dark	44.000	25	35Lam Sco	1.6200	28000.	88	20711	No
5	GOM_NL__2PRFIN20060215_002448_000000412045_00116_20711_8717.N1	15-FEB-2006 00:24:48	Dark	40.500	40	The Sco	1.8590	7100.0	81	20711	No
6	GOM_NL__2PRFIN20060215_002800_000000422045_00116_20711_8718.N1	15-FEB-2006 00:28:00	Dark	41.500	141	Bet Ara	2.8400	4600.0	83	20711	No
7	GOM_NL__2PRFIN20060215_003409_000000462045_00117_20712_8698.N1	15-FEB-2006 00:34:09	Dark	46.000	4	Alp1Cen	-0.010000	5800.0	92	20712	No
8	GOM_NL__2PRFIN20060215_003528_000000092045_00117_20712_8699.N1	15-FEB-2006 00:35:28	Dark	9.0000	10	Bet Cen	0.61000	28000.	18	20712	No
9	GOM_NL__2PRFIN20060215_003833_000000452045_00117_20712_8700.N1	15-FEB-2006 00:38:33	Dark	45.000	12	Alp1Cru	0.77500	30000.	90	20712	No
10	GOM_NL__2PRFIN20060215_004101_000000382045_00117_20712_8701.N1	15-FEB-2006 00:41:01	Dark	38.000	29	Bet Car	1.6720	10200.	76	20712	No
11	GOM_NL__2PRFIN20060215_004339_000000382045_00117_20712_8702.N1	15-FEB-2006 00:43:39	Dark	37.500	71	lot Car	2.2460	7700.0	75	20712	No
12	GOM_NL__2PRFIN20060215_004516_000000402045_00117_20712_8703.N1	15-FEB-2006 00:45:16	Dark	40.000	46	Del Vel	1.9540	10600.	80	20712	No
13	GOM_NL__2PRFIN20060215_004739_000000372045_00117_20712_8704.N1	15-FEB-2006 00:47:39	Straylight	36.500	34	Gam2Vel	1.7930	23000.	73	20712	No
14	GOM_NL__2PRFIN20060215_004944_000000372045_00117_20712_8705.N1	15-FEB-2006 00:49:44	Straylight	36.500	70	Zet Pup	2.2460	39000.	73	20712	No
15	GOM_NL__2PRFIN20060215_005401_000000382045_00117_20712_8706.N1	15-FEB-2006 00:54:01	Straylight	38.000	132	15Rho Pup	2.8030	6900.0	76	20712	No
16	GOM_NL__2PRFIN20060215_010229_000000462045_00117_20712_8707.N1	15-FEB-2006 01:02:29	Bright	45.500	8	10Alp CMi	0.40000	6500.0	91	20712	No
17	GOM_NL__2PRFIN20060215_010846_000000382045_00117_20712_8708.N1	15-FEB-2006 01:08:46	Bright	38.000	17	78Bet Gem	1.1610	4500.0	76	20712	No
18	GOM_NL__2PRFIN20060215_012609_000000342045_00117_20712_8709.N1	15-FEB-2006 01:26:09	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	20712	No
19	GOM_NL__2PRFIN20060215_013305_000000352045_00117_20712_8710.N1	15-FEB-2006 01:33:05	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	20712	No
20	GOM_NL__2PRFIN20060215_013812_000000332045_00117_20712_8711.N1	15-FEB-2006 01:38:12	Bright	33.000	19	50Alp Cyg	1.2460	10500.	66	20712	No
21	GOM_NL__2PRFIN20060215_013949_000000362045_00117_20712_8712.N1	15-FEB-2006 01:39:49	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	20712	No
22	GOM_NL__2PRFIN20060215_014801_000000342045_00117_20712_8713.N1	15-FEB-2006 01:48:01	Bright	33.500	168	17Zet Aql	2.9860	11000.	67	20712	No
23	GOM_NL__2PRFIN20060215_020159_000000412045_00117_20712_8714.N1	15-FEB-2006 02:01:59	Dark	41.000	38	20Eps Sgr	1.8360	11000.	82	20712	No
24	GOM_NL__2PRFIN20060215_020407_000000412045_00117_20712_8715.N1	15-FEB-2006 02:04:07	Dark	40.500	25	35Lam Sco	1.6200	28000.	81	20712	No
25	GOM_NL__2PRFIN20060215_020524_000000432045_00117_20712_8716.N1	15-FEB-2006 02:05:24	Dark	42.500	40	The Sco	1.8590	7100.0	85	20712	No
26	GOM_NL__2PRFIN20060215_020710_000000382045_00117_20712_8717.N1	15-FEB-2006 02:07:10	Dark	37.500	147	Alp Ara	2.8770	26000.	75	20712	No
27	GOM_NL__2PRFIN20060215_020837_000000422045_00117_20712_8718.N1	15-FEB-2006 02:08:37	Dark	42.000	141	Bet Ara	2.8400	4600.0	84	20712	No
28	GOM_NL__2PRFIN20060215_021445_000000432045_00118_20713_8698.N1	15-FEB-2006 02:14:45	Dark	42.500	4	Alp1Cen	-0.010000	5800.0	85	20713	No
29	GOM_NL__2PRFIN20060215_021604_000000092045_00118_20713_8699.N1	15-FEB-2006 02:16:04	Dark	9.0000	10	Bet Cen	0.61000	28000.	18	20713	No
30	GOM_NL__2PRFIN20060215_021909_000000502045_00118_20713_8700.N1	15-FEB-2006 02:19:09	Dark	49.500	12	Alp1Cru	0.77500	30000.	99	20713	No
31	GOM_NL__2PRFIN20060215_022138_000000392045_00118_20713_8701.N1	15-FEB-2006 02:21:38	Dark	38.500	29	Bet Car	1.6720	10200.	77	20713	No
32	GOM_NL__2PRFIN20060215_022415_000000372045_00118_20713_8702.N1	15-FEB-2006 02:24:15	Dark	37.000	71	lot Car	2.2460	7700.0	74	20713	No
33	GOM_NL__2PRFIN20060215_022552_000000402045_00118_20713_8703.N1	15-FEB-2006 02:25:52	Dark	40.000	46	Del Vel	1.9540	10600.	80	20713	No
34	GOM_NL__2PRFIN20060215_022815_000000382045_00118_20713_8704.N1	15-FEB-2006 02:28:15	Straylight	38.000	34	Gam2Vel	1.7930	23000.	76	20713	No
35	GOM_NL__2PRFIN20060215_023020_000000382045_00118_20713_8705.N1	15-FEB-2006 02:30:20	Straylight	38.000	70	Zet Pup	2.2460	39000.	76	20713	No
36	GOM_NL__2PRFIN20060215_023437_000000402045_00118_20713_8706.N1	15-FEB-2006 02:34:37	Straylight	39.500	132	15Rho Pup	2.8030	6900.0	79	20713	No
37	GOM_NL__2PRFIN20060215_024305_000000522045_00118_20713_8707.N1	15-FEB-2006 02:43:05	Bright	52.000	8	10Alp CMi	0.40000	6500.0	104	20713	No
38	GOM_NL__2PRFIN20060215_024922_000000392045_00118_20713_8708.N1	15-FEB-2006 02:49:22	Bright	38.500	17	78Bet Gem	1.1610	4500.0	77	20713	No
39	GOM_NL__2PRFIN20060215_030645_000000322045_00118_20713_8709.N1	15-FEB-2006 03:06:45	Bright	31.500	49	1Alp UMi	1.9900	6300.0	63	20713	No
40	GOM_NL__2PRFIN20060215_031341_000000362045_00118_20713_8710.N1	15-FEB-2006 03:13:41	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	20713	No
41	GOM_NL__2PRFIN20060215_031848_000000332045_00118_20713_8711.N1	15-FEB-2006 03:18:48	Bright	33.000	19	50Alp Cyg	1.2460	10500.	66	20713	No
42	GOM_NL__2PRFIN20060215_032025_000000352045_00118_20713_8712.N1	15-FEB-2006 03:20:25	Bright	35.000	66	37Gam Cyg	2.2080	5900.0	70	20713	No

279	GOM_NL__2PRFIN20060215_204247_00000042045_00129_20724_8739.N1	15-FEB-2006 20:42:47	Dark	4.0000	10	Bet Cen	0.61000	28000.	8	20724	No
280	GOM_NL__2PRFIN20060215_204550_000000402045_00129_20724_8740.N1	15-FEB-2006 20:45:50	Dark	39.500	12	Alp1Cru	0.77500	30000.	79	20724	No
281	GOM_NL__2PRFIN20060215_204815_000000372045_00129_20724_8741.N1	15-FEB-2006 20:48:15	Dark	37.000	29	Bet Car	1.6720	10200.	74	20724	No
282	GOM_NL__2PRFIN20060215_205053_000000392045_00129_20724_8742.N1	15-FEB-2006 20:50:53	Dark	38.500	71	lot Car	2.2460	7700.0	77	20724	No
283	GOM_NL__2PRFIN20060215_205230_000000402045_00129_20724_8743.N1	15-FEB-2006 20:52:30	Dark	39.500	46	Del Vel	1.9540	10600.	79	20724	No
284	GOM_NL__2PRFIN20060215_205452_000000392045_00129_20724_8744.N1	15-FEB-2006 20:54:52	Straylight	38.500	34	Gam2Vel	1.7930	23000.	77	20724	No
285	GOM_NL__2PRFIN20060215_205657_000000382045_00129_20724_8745.N1	15-FEB-2006 20:56:57	Straylight	38.000	70	Zet Pup	2.2460	39000.	76	20724	No
286	GOM_NL__2PRFIN20060215_210115_000000412045_00129_20724_8746.N1	15-FEB-2006 21:01:15	Straylight	40.500	132	15Rho Pup	2.8030	6900.0	81	20724	No
287	GOM_NL__2PRFIN20060215_210942_000000432045_00129_20724_8747.N1	15-FEB-2006 21:09:42	Bright	42.500	8	10Alp CMi	0.40000	6500.0	85	20724	No
288	GOM_NL__2PRFIN20060215_211558_000000372045_00129_20724_8748.N1	15-FEB-2006 21:15:58	Bright	37.000	17	78Bet Gem	1.1610	4500.0	74	20724	No
289	GOM_NL__2PRFIN20060215_213320_000000372045_00129_20724_8749.N1	15-FEB-2006 21:33:20	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	20724	No
290	GOM_NL__2PRFIN20060215_214019_000000352045_00129_20724_8750.N1	15-FEB-2006 21:40:19	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	20724	No
291	GOM_NL__2PRFIN20060215_214526_000000362045_00129_20724_8751.N1	15-FEB-2006 21:45:26	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	20724	No
292	GOM_NL__2PRFIN20060215_214703_000000352045_00129_20724_8752.N1	15-FEB-2006 21:47:03	Bright	35.000	66	37Gam Cyg	2.2080	5900.0	70	20724	No
293	GOM_NL__2PRFIN20060215_215515_000000352045_00129_20724_8753.N1	15-FEB-2006 21:55:15	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	20724	No
294	GOM_NL__2PRFIN20060215_220449_000000402045_00129_20724_8754.N1	15-FEB-2006 22:04:49	Twilight	39.500	155	41Pi Sgr	2.9000	6600.0	79	20724	No
295	GOM_NL__2PRFIN20060215_220629_000000402045_00129_20724_8755.N1	15-FEB-2006 22:06:29	Twilight	40.000	57	34Sig Sgr	2.0660	26000.	80	20724	No
296	GOM_NL__2PRFIN20060215_220915_000000412045_00129_20724_8756.N1	15-FEB-2006 22:09:15	Dark	41.000	38	20Eps Sgr	1.8360	11000.	82	20724	No
297	GOM_NL__2PRFIN20060215_221125_000000442045_00129_20724_8757.N1	15-FEB-2006 22:11:25	Dark	44.000	25	35Lam Sco	1.6200	28000.	88	20724	No
298	GOM_NL__2PRFIN20060215_221241_000000402045_00129_20724_8758.N1	15-FEB-2006 22:12:41	Dark	40.000	40	The Sco	1.8590	7100.0	80	20724	No
299	GOM_NL__2PRFIN20060215_221427_000000392045_00129_20724_8759.N1	15-FEB-2006 22:14:27	Dark	39.000	147	Alp Ara	2.8770	26000.	78	20724	No
300	GOM_NL__2PRFIN20060215_221553_000000402045_00129_20724_8760.N1	15-FEB-2006 22:15:53	Dark	39.500	141	Bet Ara	2.8400	4600.0	79	20724	No
301	GOM_NL__2PRFIN20060215_222204_000000432045_00130_20725_8738.N1	15-FEB-2006 22:22:04	Dark	43.000	4	Alp1Cen	-0.010000	5800.0	86	20725	No
302	GOM_NL__2PRFIN20060215_222323_000000402045_00130_20725_8739.N1	15-FEB-2006 22:23:23	Dark	4.0000	10	Bet Cen	0.61000	28000.	8	20725	No
303	GOM_NL__2PRFIN20060215_222627_000000432045_00130_20725_8740.N1	15-FEB-2006 22:26:27	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	20725	No
304	GOM_NL__2PRFIN20060215_222851_000000412045_00130_20725_8741.N1	15-FEB-2006 22:28:51	Dark	41.000	29	Bet Car	1.6720	10200.	82	20725	No
305	GOM_NL__2PRFIN20060215_223129_000000412045_00130_20725_8742.N1	15-FEB-2006 22:31:29	Dark	40.500	71	lot Car	2.2460	7700.0	81	20725	No
306	GOM_NL__2PRFIN20060215_223306_000000372045_00130_20725_8743.N1	15-FEB-2006 22:33:06	Dark	37.000	46	Del Vel	1.9540	10600.	74	20725	No
307	GOM_NL__2PRFIN20060215_223528_000000382045_00130_20725_8744.N1	15-FEB-2006 22:35:28	Straylight	37.500	34	Gam2Vel	1.7930	23000.	75	20725	No
308	GOM_NL__2PRFIN20060215_223733_000000372045_00130_20725_8745.N1	15-FEB-2006 22:37:33	Straylight	37.000	70	Zet Pup	2.2460	39000.	74	20725	No
309	GOM_NL__2PRFIN20060215_224151_000000402045_00130_20725_8746.N1	15-FEB-2006 22:41:51	Straylight	39.500	132	15Rho Pup	2.8030	6900.0	79	20725	No
310	GOM_NL__2PRFIN20060215_225019_000000392045_00130_20725_8747.N1	15-FEB-2006 22:50:19	Bright	39.000	8	10Alp CMi	0.40000	6500.0	78	20725	No
311	GOM_NL__2PRFIN20060215_225634_000000382045_00130_20725_8748.N1	15-FEB-2006 22:56:34	Bright	37.500	17	78Bet Gem	1.1610	4500.0	75	20725	No
312	GOM_NL__2PRFIN20060215_231356_000000352045_00130_20725_8749.N1	15-FEB-2006 23:13:56	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	20725	No
313	GOM_NL__2PRFIN20060215_232055_000000352045_00130_20725_8750.N1	15-FEB-2006 23:20:55	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	20725	No
314	GOM_NL__2PRFIN20060215_232602_000000352045_00130_20725_8751.N1	15-FEB-2006 23:26:02	Bright	34.500	19	50Alp Cyg	1.2460	10500.	69	20725	No
315	GOM_NL__2PRFIN20060215_232739_000000342045_00130_20725_8752.N1	15-FEB-2006 23:27:39	Bright	33.500	66	37Gam Cyg	2.2080	5900.0	67	20725	No
316	GOM_NL__2PRFIN20060215_233551_000000342045_00130_20725_8753.N1	15-FEB-2006 23:35:51	Bright	34.000	168	17Zet Aql	2.9860	11000.	68	20725	No
317	GOM_NL__2PRFIN20060215_234525_000000412045_00130_20725_8754.N1	15-FEB-2006 23:45:25	Twilight	40.500	155	41Pi Sgr	2.9000	6600.0	81	20725	No
318	GOM_NL__2PRFIN20060215_234705_000000402045_00130_20725_8755.N1	15-FEB-2006 23:47:05	Twilight	40.000	57	34Sig Sgr	2.0660	26000.	80	20725	No
319	GOM_NL__2PRFIN20060215_234952_000000422045_00130_20725_8756.N1	15-FEB-2006 23:49:52	Dark	42.000	38	20Eps Sgr	1.8360	11000.	84	20725	No
320	GOM_NL__2PRFIN20060215_235202_000000422045_00130_20725_8757.N1	15-FEB-2006 23:52:02	Dark	41.500	25	35Lam Sco	1.6200	28000.	83	20725	No
321	GOM_NL__2PRFIN20060215_235318_000000452045_00130_20725_8758.N1	15-FEB-2006 23:53:18	Dark	44.500	40	The Sco	1.8590	7100.0	89	20725	No
322	GOM_NL__2PRFIN20060215_235503_000000402045_00130_20725_8759.N1	15-FEB-2006 23:55:03	Dark	40.000	147	Alp Ara	2.8770	26000.	80	20725	No
323	GOM_NL__2PRFIN20060215_235629_000000472045_00130_20725_8760.N1	15-FEB-2006 23:56:29	Dark	46.500	141	Bet Ara	2.8400	4600.0	93	20725	No

3. Quality information per product

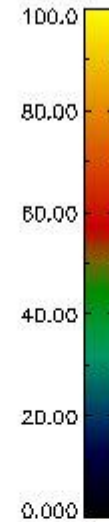
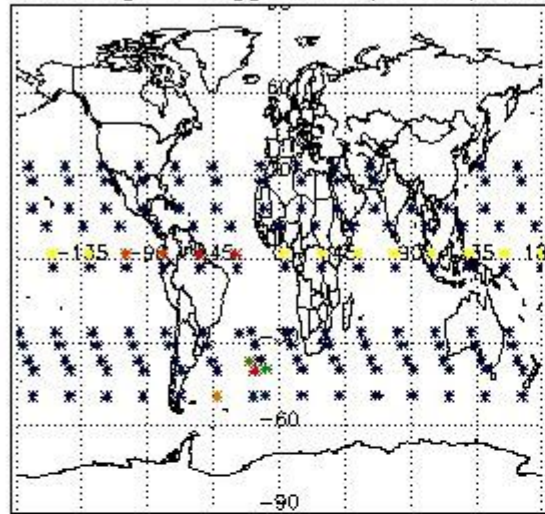
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

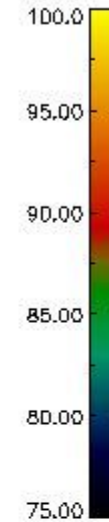
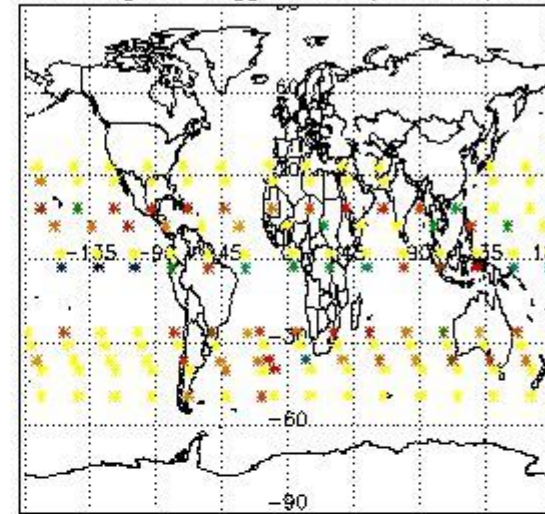


3.2 Plot quality information per product (world map)

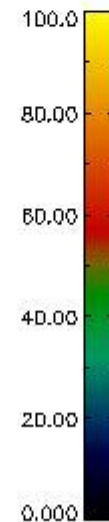
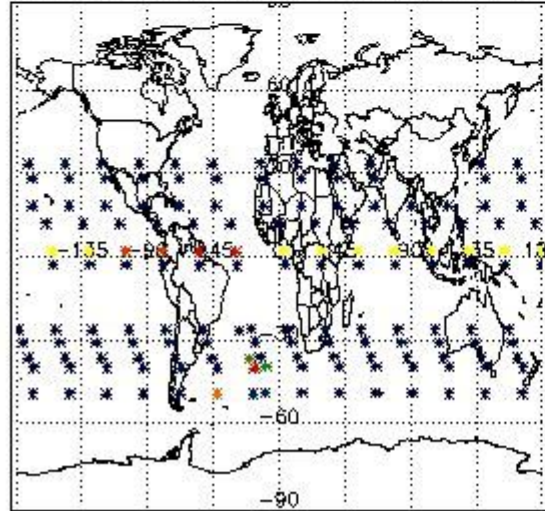
Percentage of flagged data per O3 profile



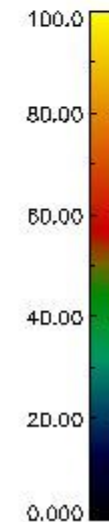
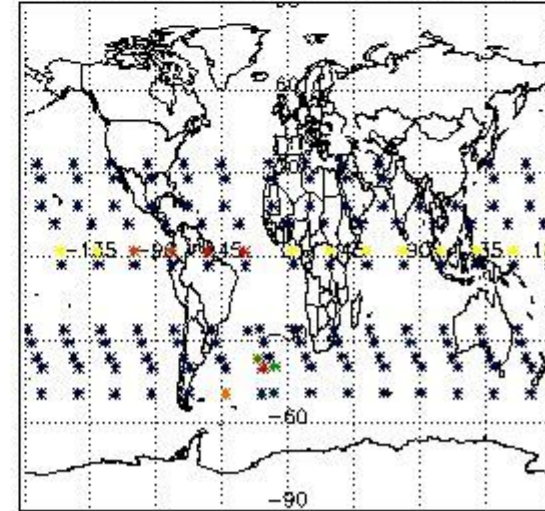
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

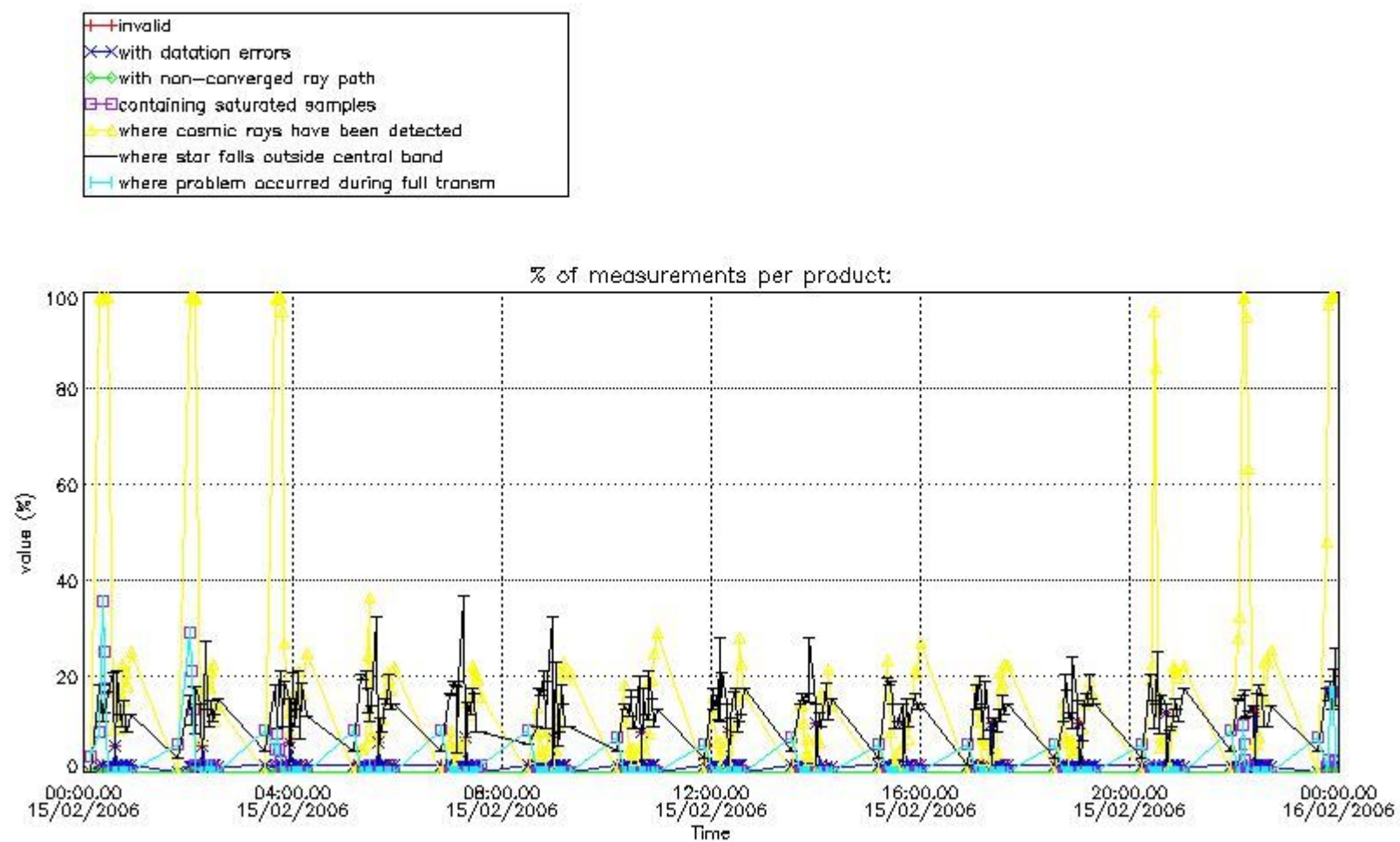


4. Level 1 quality information per product

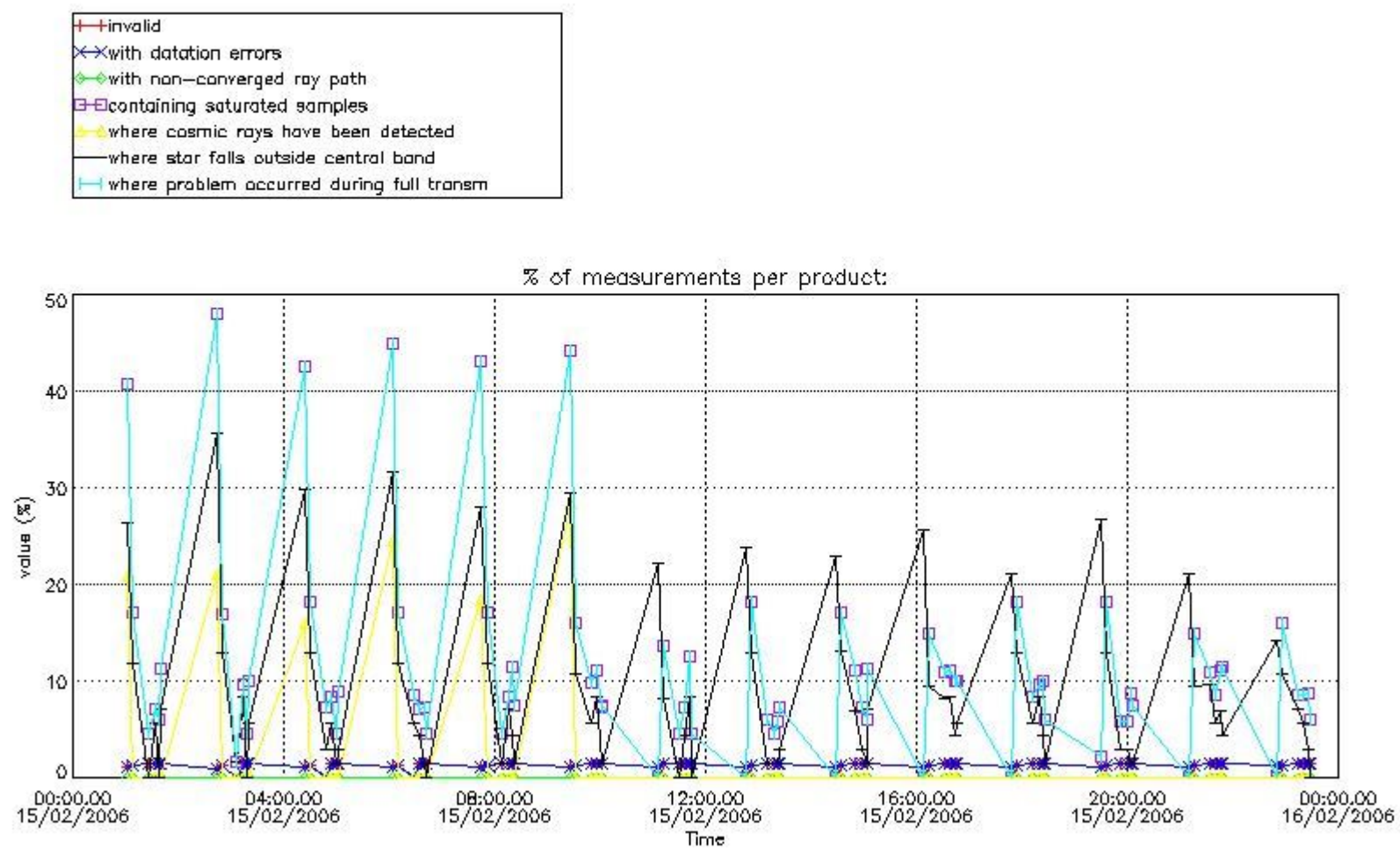
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

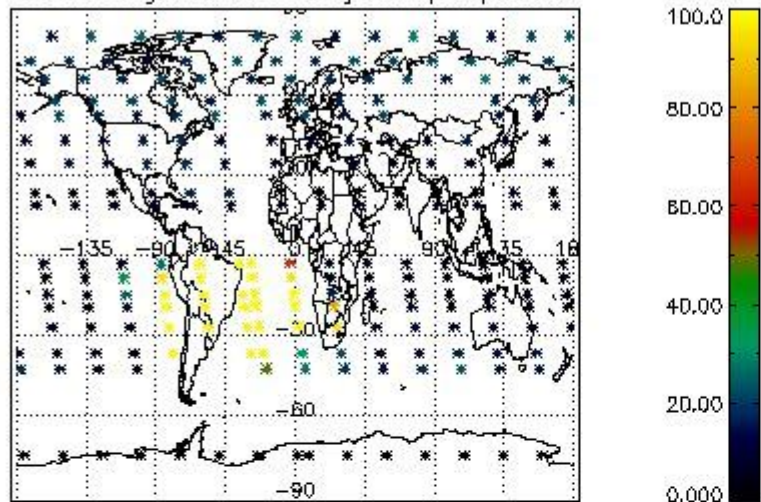


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

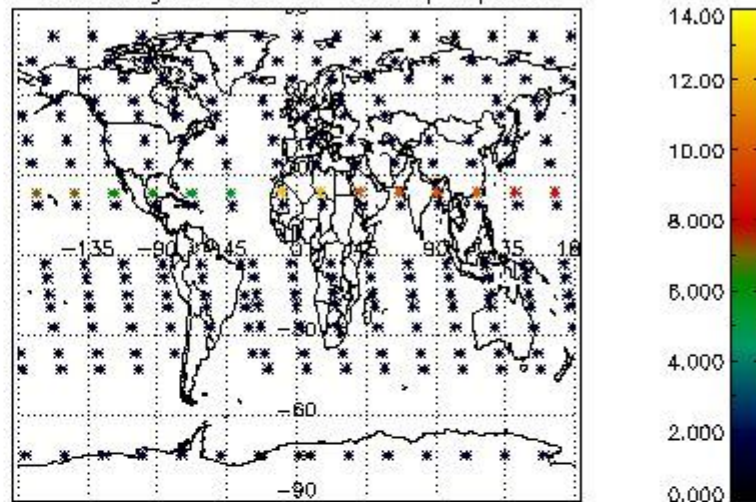


4.2 Plot quality information per product coming from level 1b processing (world map)
 4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes

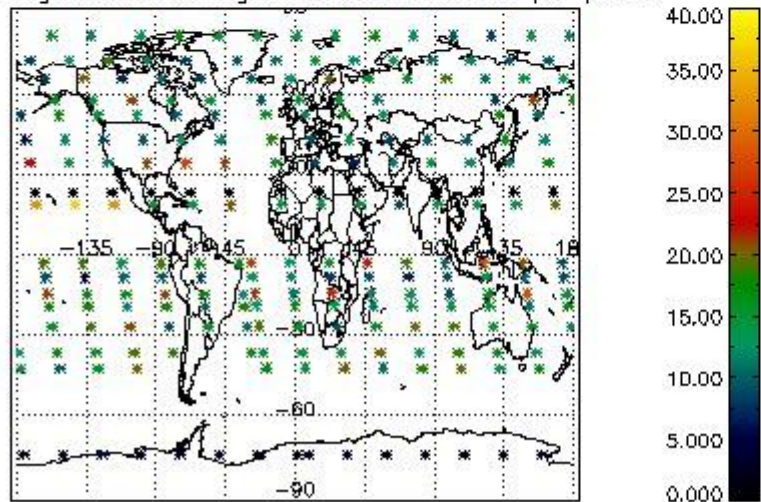
Percentage of cosmic ray hits per profile



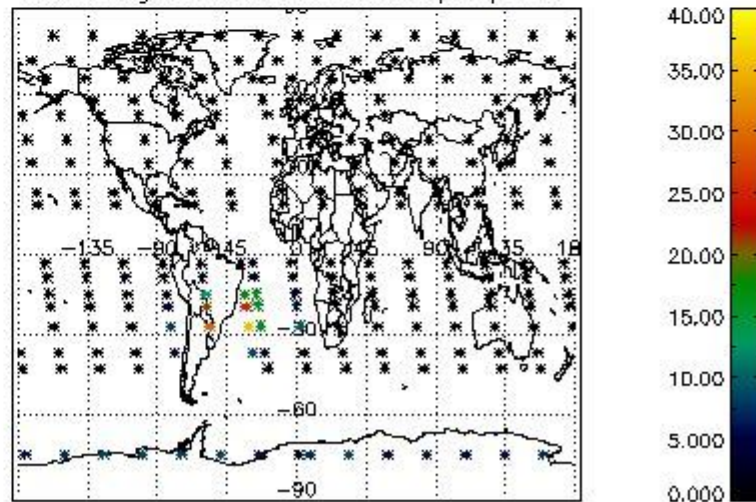
Percentage of datation errors per profile



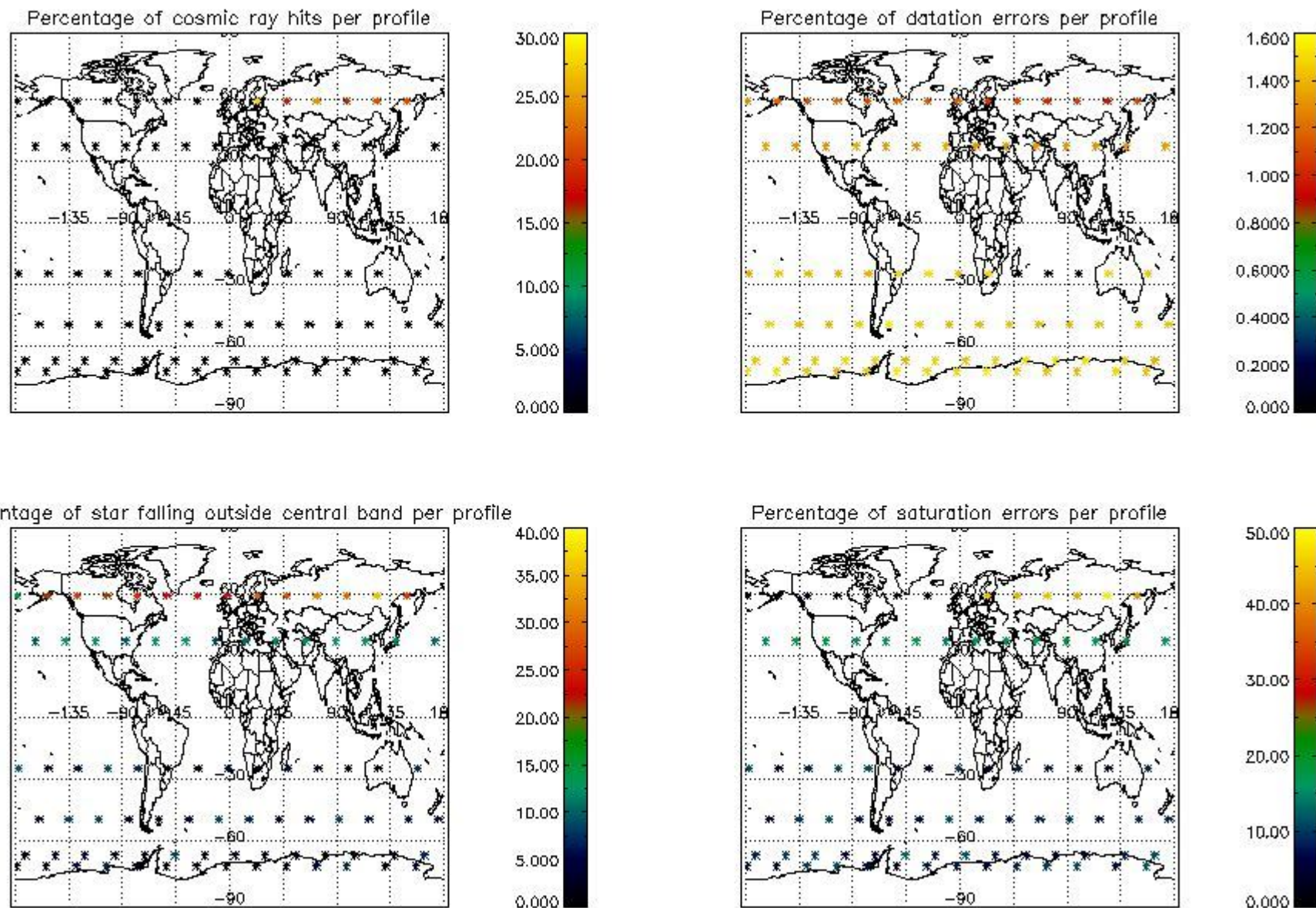
Percentage of star falling outside central band per profile



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

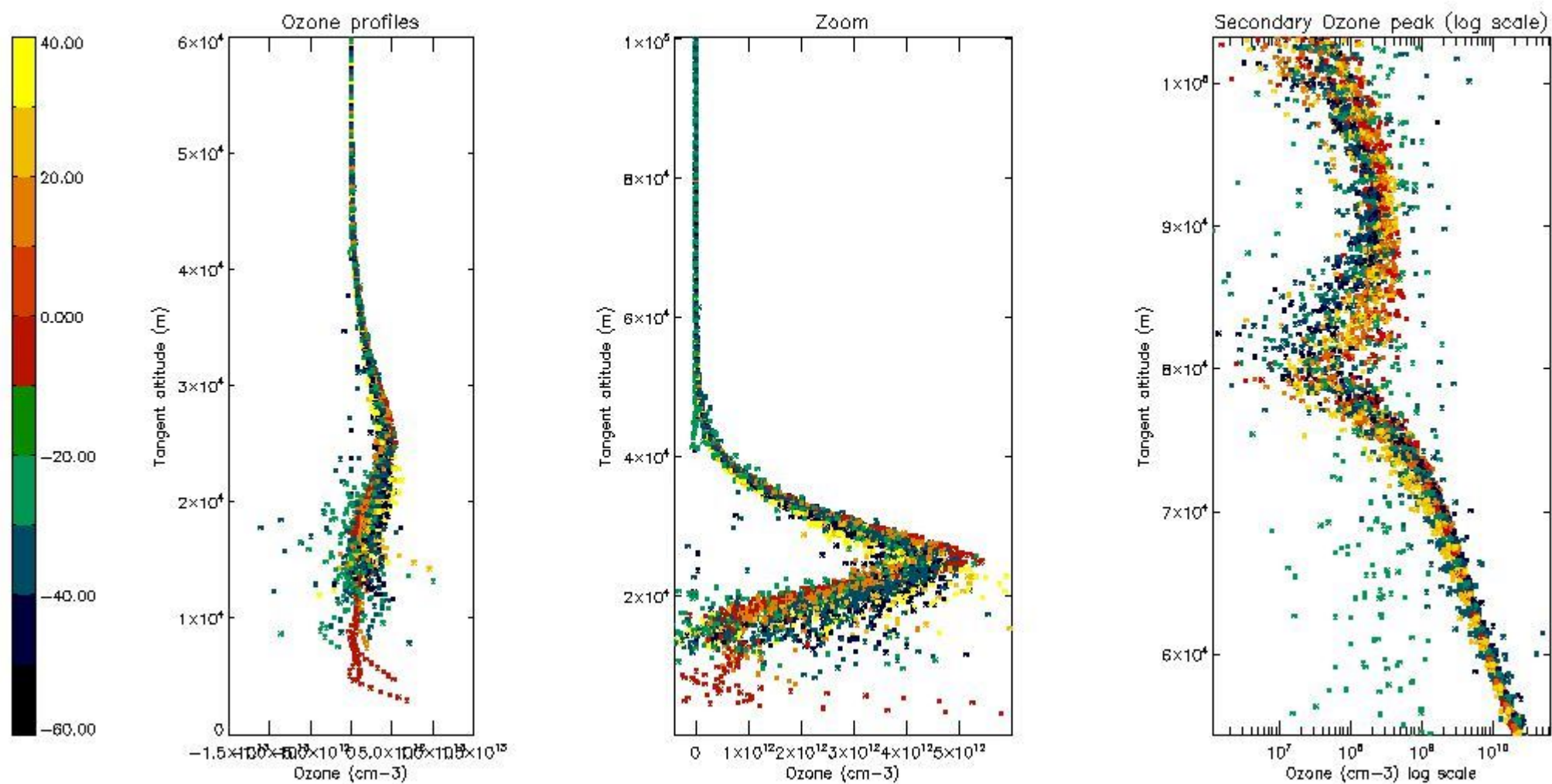
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	49
STD < 20	27

STD < 10	22
STD < 5	15

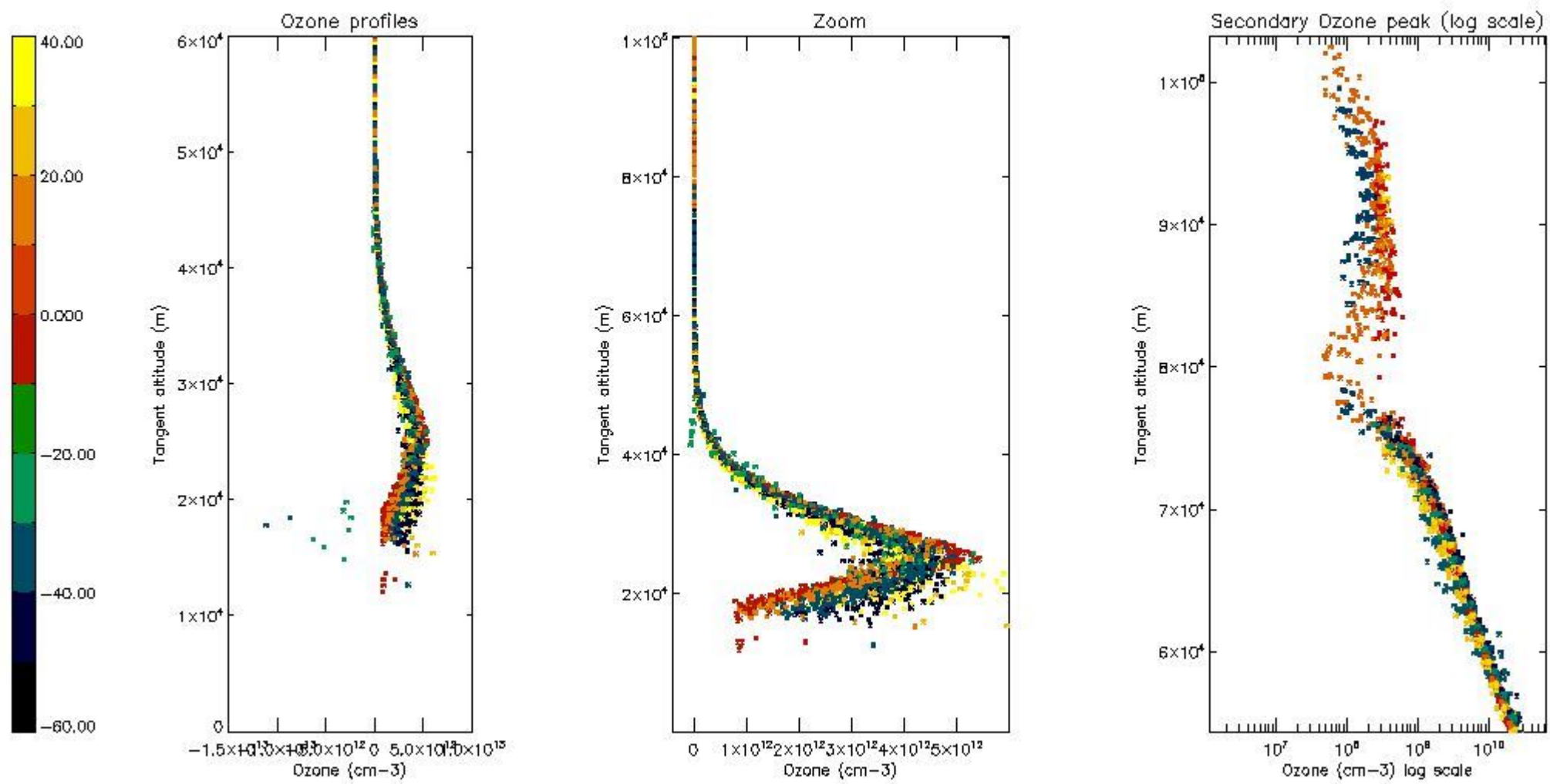
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



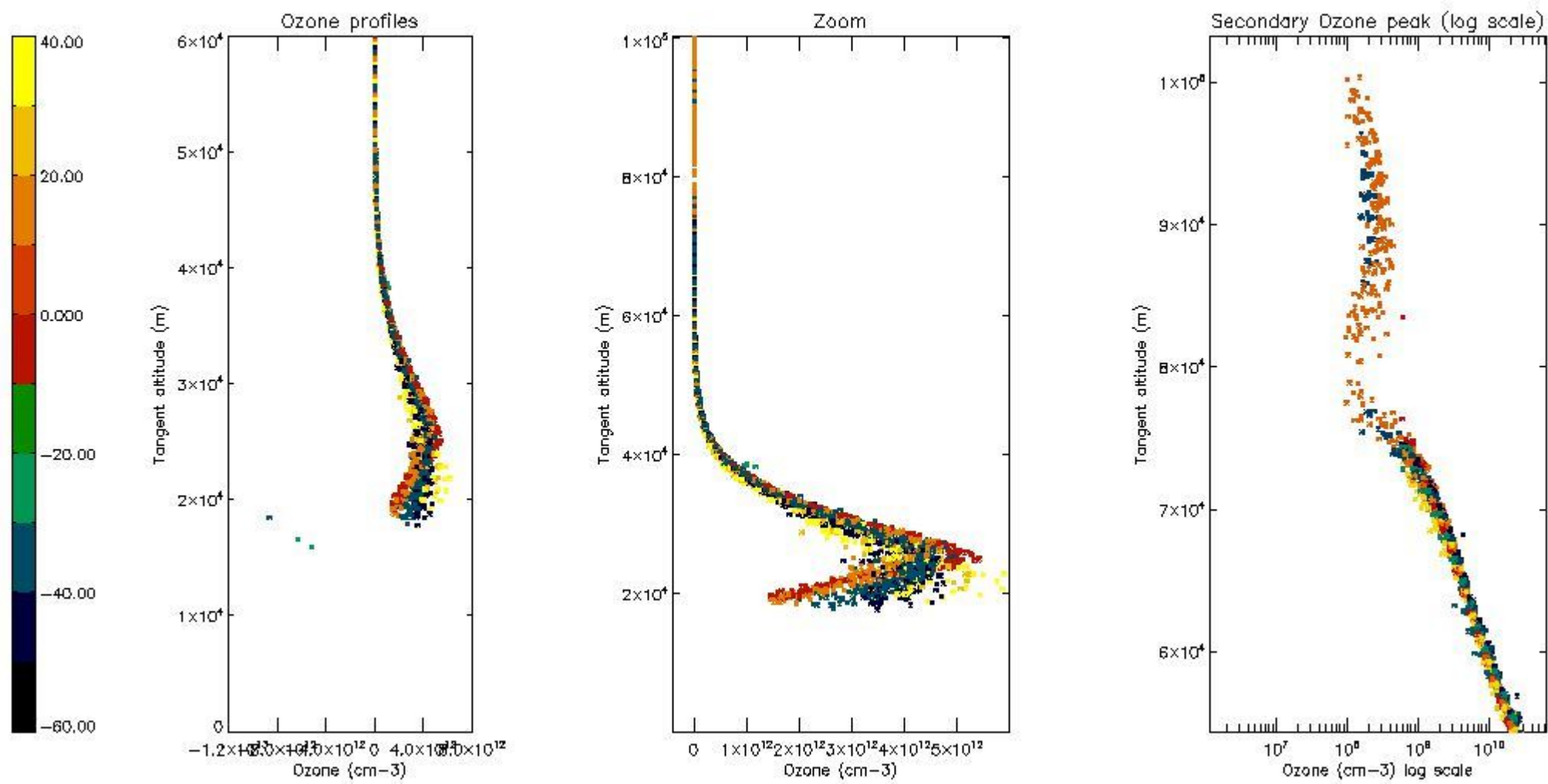
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



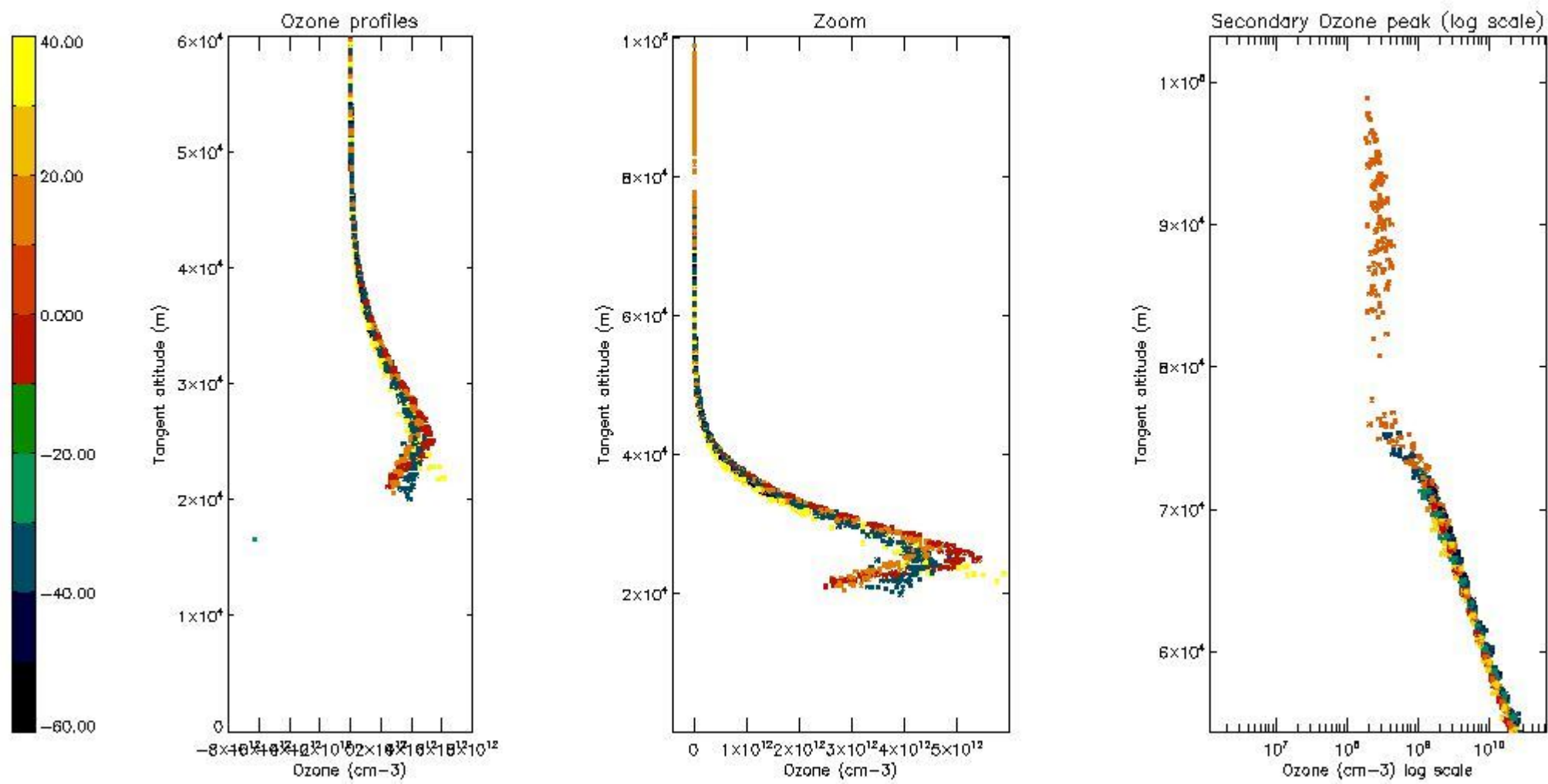
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



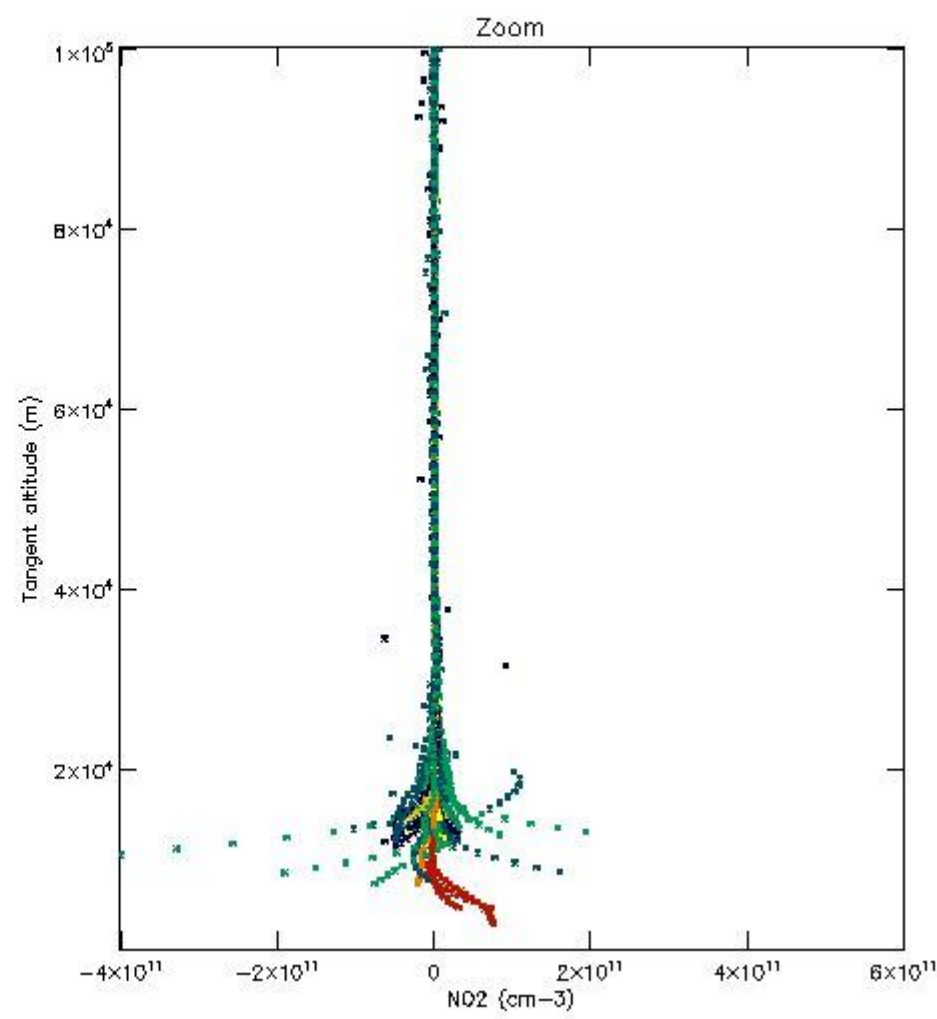
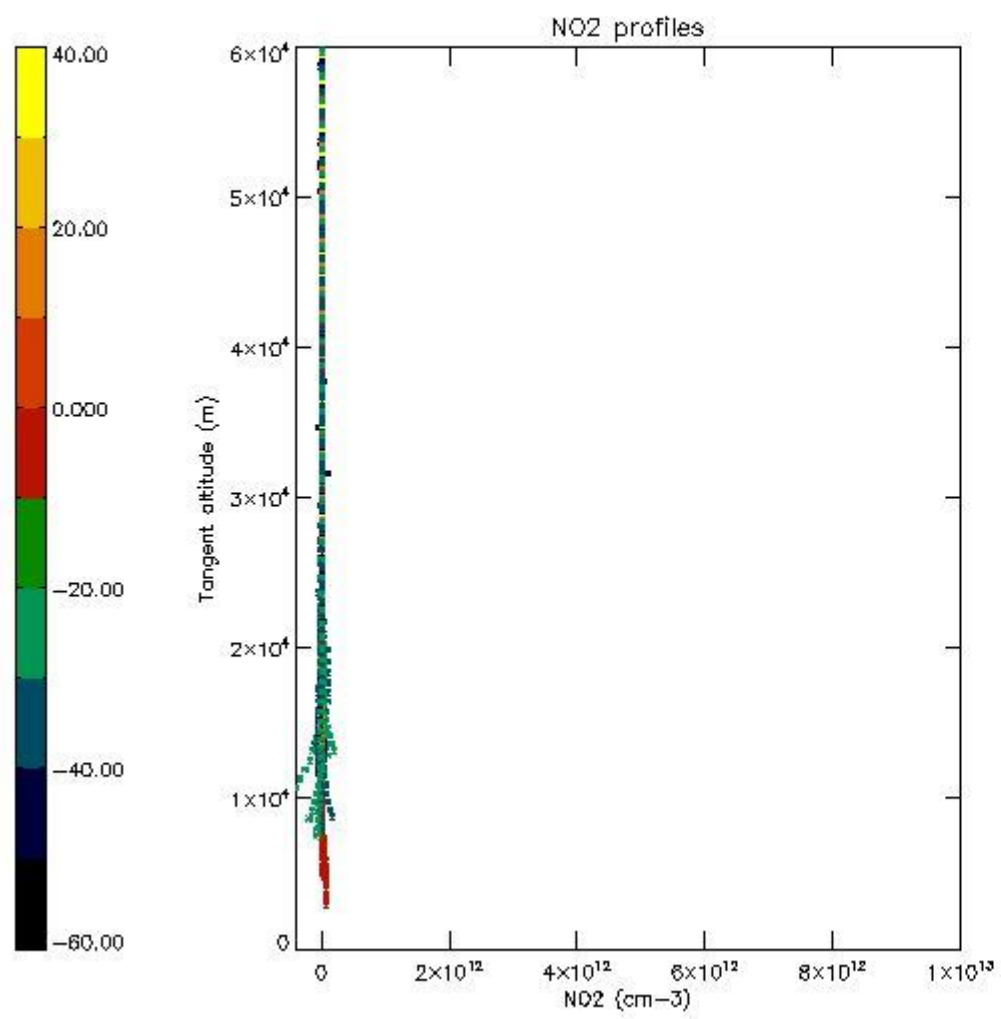
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



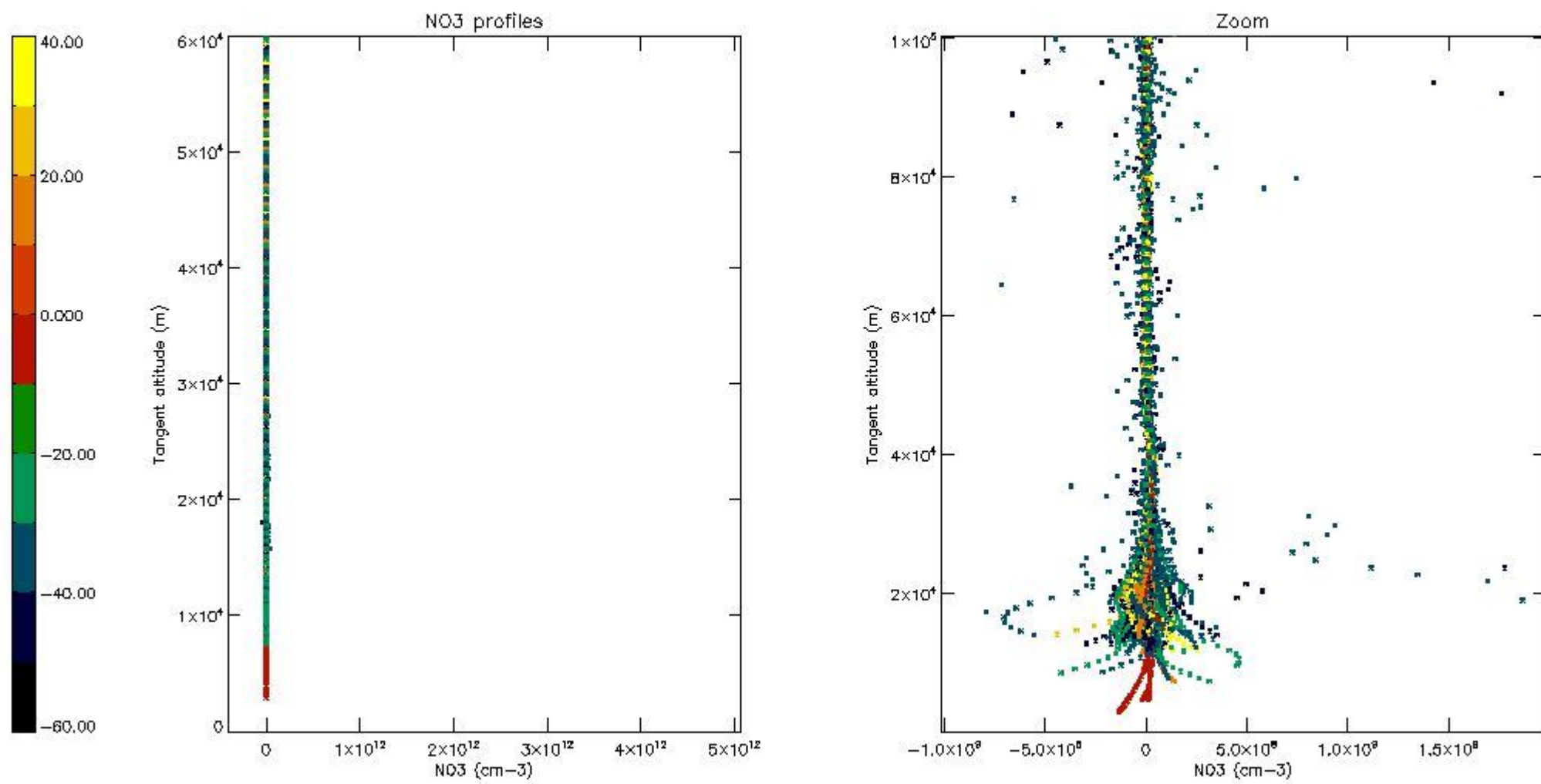
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



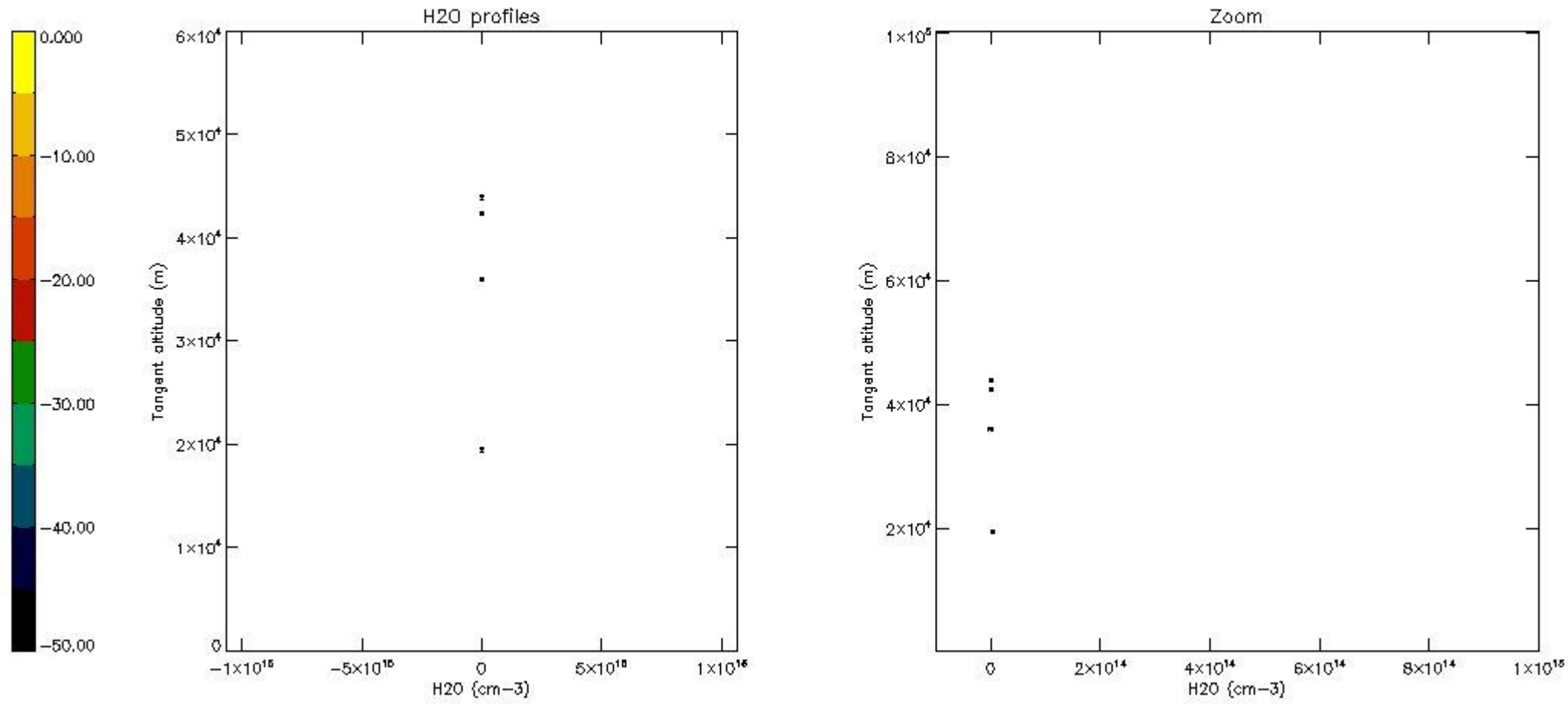
5.7 Plot NO3 profiles for all STD (dark without errors)

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	15-FEB-2006 00:07:25
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	15-FEB-2006 00:07:25
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	15-FEB-2006 00:07:25

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](#)

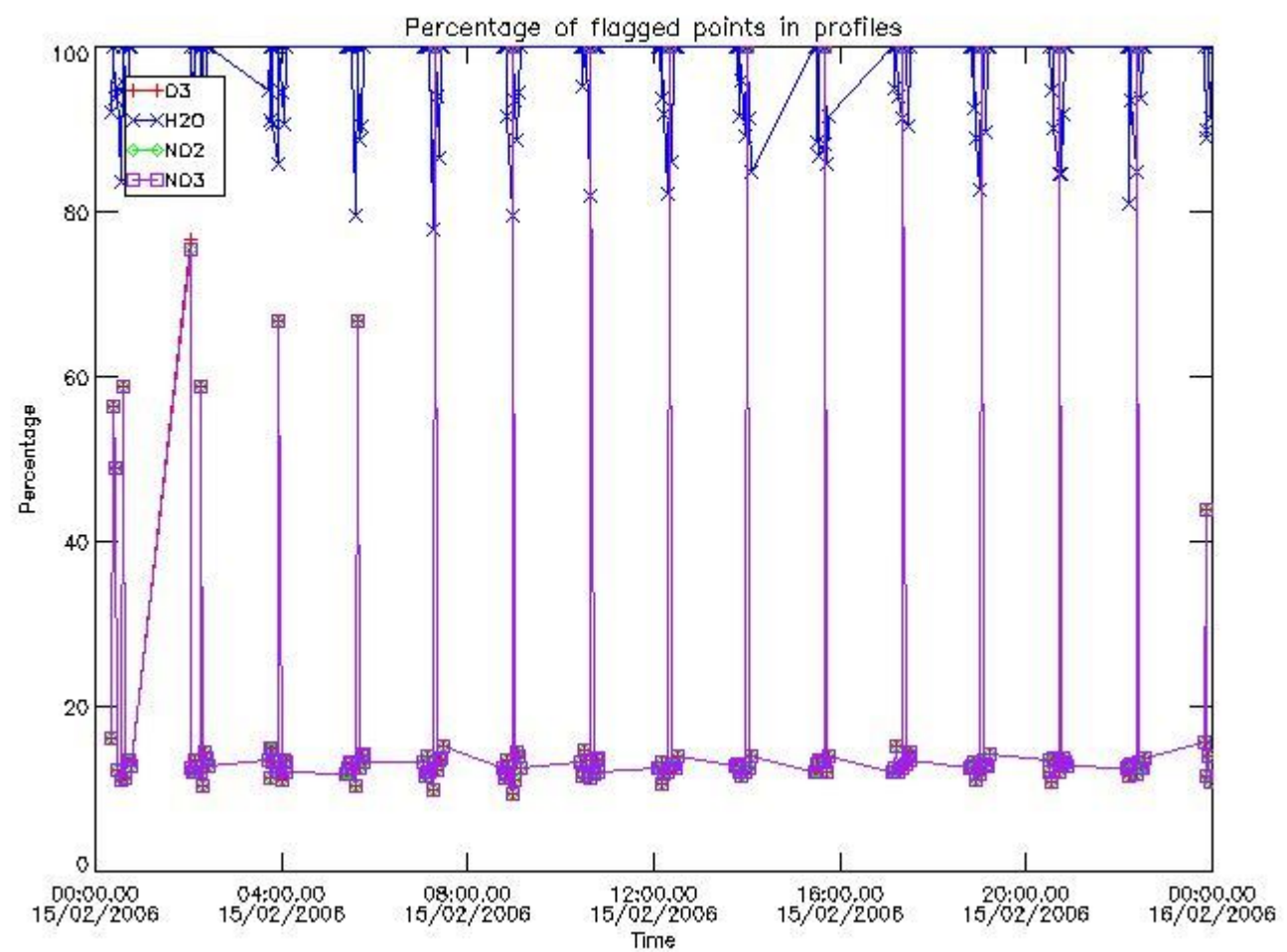
[6. Auxiliary Data Files used for the production reported in section 2](#)

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	22APR2013 15:46:05
Data source version	GOMOS/6.01
Start time of products	15-02-2006 (15FEB2006 00:00:00)
Stop time of products	16-02-2006 (16FEB2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	323
Nb of prods with errors	2

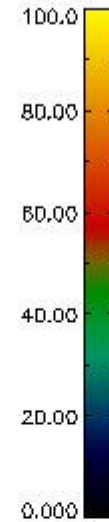
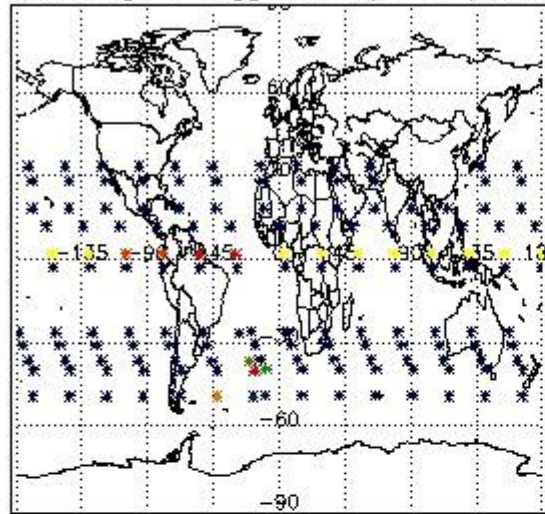
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060215_000725_000000322045_00116_20711_8713.N1	15-FEB-2006 00:07:25	Bright	32.000	168	17Zet Aql	2.9860	11000.	64	20711	No
2	GOM_NL__2PRFIN20060215_001838_000000422045_00116_20711_8714.N1	15-FEB-2006 00:18:38	Twilight	41.500	57	34Sig Sgr	2.0660	26000.	83	20711	No
3	GOM_NL__2PRFIN20060215_002123_000000382045_00116_20711_8715.N1	15-FEB-2006 00:21:23	Dark	38.000	38	20Eps Sgr	1.8360	11000.	76	20711	No
4	GOM_NL__2PRFIN20060215_002331_000000442045_00116_20711_8716.N1	15-FEB-2006 00:23:31	Dark	44.000	25	35Lam Sco	1.6200	28000.	88	20711	No
5	GOM_NL__2PRFIN20060215_002448_000000412045_00116_20711_8717.N1	15-FEB-2006 00:24:48	Dark	40.500	40	The Sco	1.8590	7100.0	81	20711	No
6	GOM_NL__2PRFIN20060215_002800_000000422045_00116_20711_8718.N1	15-FEB-2006 00:28:00	Dark	41.500	141	Bet Ara	2.8400	4600.0	83	20711	No
7	GOM_NL__2PRFIN20060215_003409_000000462045_00117_20712_8698.N1	15-FEB-2006 00:34:09	Dark	46.000	4	Alp1Cen	-0.010000	5800.0	92	20712	No
8	GOM_NL__2PRFIN20060215_003528_000000092045_00117_20712_8699.N1	15-FEB-2006 00:35:28	Dark	9.0000	10	Bet Cen	0.61000	28000.	18	20712	No
9	GOM_NL__2PRFIN20060215_003833_000000452045_00117_20712_8700.N1	15-FEB-2006 00:38:33	Dark	45.000	12	Alp1Cru	0.77500	30000.	90	20712	No
10	GOM_NL__2PRFIN20060215_004101_000000382045_00117_20712_8701.N1	15-FEB-2006 00:41:01	Dark	38.000	29	Bet Car	1.6720	10200.	76	20712	No
11	GOM_NL__2PRFIN20060215_004339_000000382045_00117_20712_8702.N1	15-FEB-2006 00:43:39	Dark	37.500	71	lot Car	2.2460	7700.0	75	20712	No
12	GOM_NL__2PRFIN20060215_004516_000000402045_00117_20712_8703.N1	15-FEB-2006 00:45:16	Dark	40.000	46	Del Vel	1.9540	10600.	80	20712	No
13	GOM_NL__2PRFIN20060215_004739_000000372045_00117_20712_8704.N1	15-FEB-2006 00:47:39	Straylight	36.500	34	Gam2Vel	1.7930	23000.	73	20712	No
14	GOM_NL__2PRFIN20060215_004944_000000372045_00117_20712_8705.N1	15-FEB-2006 00:49:44	Straylight	36.500	70	Zet Pup	2.2460	39000.	73	20712	No
15	GOM_NL__2PRFIN20060215_005401_000000382045_00117_20712_8706.N1	15-FEB-2006 00:54:01	Straylight	38.000	132	15Rho Pup	2.8030	6900.0	76	20712	No
16	GOM_NL__2PRFIN20060215_010229_000000462045_00117_20712_8707.N1	15-FEB-2006 01:02:29	Bright	45.500	8	10Alp CMi	0.40000	6500.0	91	20712	No
17	GOM_NL__2PRFIN20060215_010846_000000382045_00117_20712_8708.N1	15-FEB-2006 01:08:46	Bright	38.000	17	78Bet Gem	1.1610	4500.0	76	20712	No
18	GOM_NL__2PRFIN20060215_012609_000000342045_00117_20712_8709.N1	15-FEB-2006 01:26:09	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	20712	No
19	GOM_NL__2PRFIN20060215_013305_000000352045_00117_20712_8710.N1	15-FEB-2006 01:33:05	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	20712	No
20	GOM_NL__2PRFIN20060215_013812_000000332045_00117_20712_8711.N1	15-FEB-2006 01:38:12	Bright	33.000	19	50Alp Cyg	1.2460	10500.	66	20712	No
21	GOM_NL__2PRFIN20060215_013949_000000362045_00117_20712_8712.N1	15-FEB-2006 01:39:49	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	20712	No
22	GOM_NL__2PRFIN20060215_014801_000000342045_00117_20712_8713.N1	15-FEB-2006 01:48:01	Bright	33.500	168	17Zet Aql	2.9860	11000.	67	20712	No
23	GOM_NL__2PRFIN20060215_020159_000000412045_00117_20712_8714.N1	15-FEB-2006 02:01:59	Dark	41.000	38	20Eps Sgr	1.8360	11000.	82	20712	No
24	GOM_NL__2PRFIN20060215_020407_000000412045_00117_20712_8715.N1	15-FEB-2006 02:04:07	Dark	40.500	25	35Lam Sco	1.6200	28000.	81	20712	No
25	GOM_NL__2PRFIN20060215_020524_000000432045_00117_20712_8716.N1	15-FEB-2006 02:05:24	Dark	42.500	40	The Sco	1.8590	7100.0	85	20712	No
26	GOM_NL__2PRFIN20060215_020710_000000382045_00117_20712_8717.N1	15-FEB-2006 02:07:10	Dark	37.500	147	Alp Ara	2.8770	26000.	75	20712	No
27	GOM_NL__2PRFIN20060215_020837_000000422045_00117_20712_8718.N1	15-FEB-2006 02:08:37	Dark	42.000	141	Bet Ara	2.8400	4600.0	84	20712	No
28	GOM_NL__2PRFIN20060215_021445_000000432045_00118_20713_8698.N1	15-FEB-2006 02:14:45	Dark	42.500	4	Alp1Cen	-0.010000	5800.0	85	20713	No
29	GOM_NL__2PRFIN20060215_021604_000000092045_00118_20713_8699.N1	15-FEB-2006 02:16:04	Dark	9.0000	10	Bet Cen	0.61000	28000.	18	20713	No
30	GOM_NL__2PRFIN20060215_021909_000000502045_00118_20713_8700.N1	15-FEB-2006 02:19:09	Dark	49.500	12	Alp1Cru	0.77500	30000.	99	20713	No
31	GOM_NL__2PRFIN20060215_022138_000000392045_00118_20713_8701.N1	15-FEB-2006 02:21:38	Dark	38.500	29	Bet Car	1.6720	10200.	77	20713	No
32	GOM_NL__2PRFIN20060215_022415_000000372045_00118_20713_8702.N1	15-FEB-2006 02:24:15	Dark	37.000	71	lot Car	2.2460	7700.0	74	20713	No
33	GOM_NL__2PRFIN20060215_022552_000000402045_00118_20713_8703.N1	15-FEB-2006 02:25:52	Dark	40.000	46	Del Vel	1.9540	10600.	80	20713	No
34	GOM_NL__2PRFIN20060215_022815_000000382045_00118_20713_8704.N1	15-FEB-2006 02:28:15	Straylight	38.000	34	Gam2Vel	1.7930	23000.	76	20713	No
35	GOM_NL__2PRFIN20060215_023020_000000382045_00118_20713_8705.N1	15-FEB-2006 02:30:20	Straylight	38.000	70	Zet Pup	2.2460	39000.	76	20713	No
36	GOM_NL__2PRFIN20060215_023437_000000402045_00118_20713_8706.N1	15-FEB-2006 02:34:37	Straylight	39.500	132	15Rho Pup	2.8030	6900.0	79	20713	No
37	GOM_NL__2PRFIN20060215_024305_000000522045_00118_20713_8707.N1	15-FEB-2006 02:43:05	Bright	52.000	8	10Alp CMi	0.40000	6500.0	104	20713	No
38	GOM_NL__2PRFIN20060215_024922_000000392045_00118_20713_8708.N1	15-FEB-2006 02:49:22	Bright	38.500	17	78Bet Gem	1.1610	4500.0	77	20713	No
39	GOM_NL__2PRFIN20060215_030645_000000322045_00118_20713_8709.N1	15-FEB-2006 03:06:45	Bright	31.500	49	1Alp UMi	1.9900	6300.0	63	20713	No
40	GOM_NL__2PRFIN20060215_031341_000000362045_00118_20713_8710.N1	15-FEB-2006 03:13:41	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	20713	No
41	GOM_NL__2PRFIN20060215_031848_000000332045_00118_20713_8711.N1	15-FEB-2006 03:18:48	Bright	33.000	19	50Alp Cyg	1.2460	10500.	66	20713	No
42	GOM_NL__2PRFIN20060215_032025_000000352045_00118_20713_8712.N1	15-FEB-2006 03:20:25	Bright	35.000	66	37Gam Cyg	2.2080	5900.0	70	20713	No

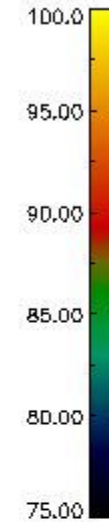
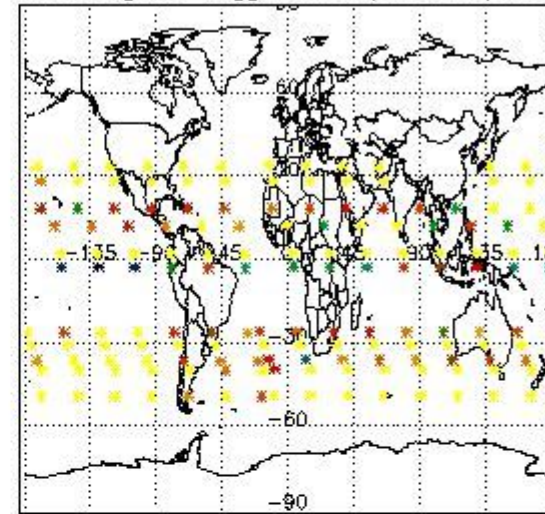


3.2 Plot quality information per product (world map)

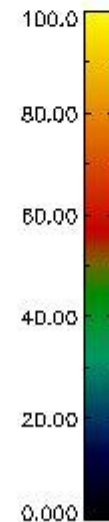
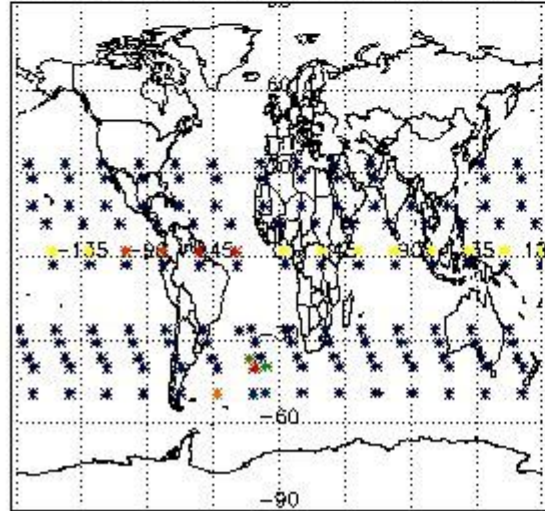
Percentage of flagged data per O3 profile



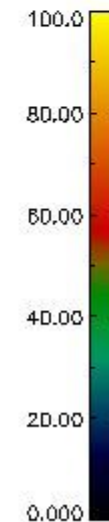
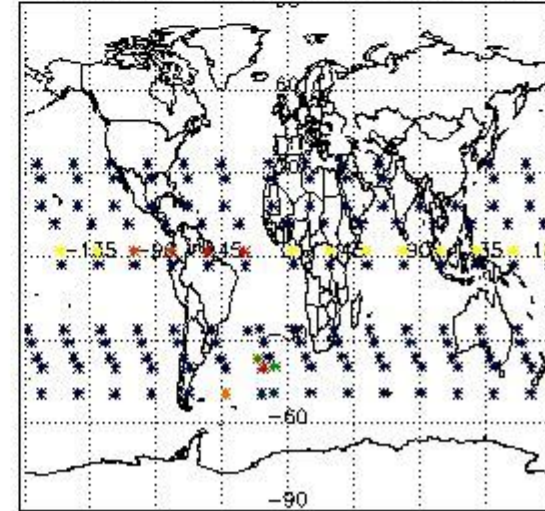
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

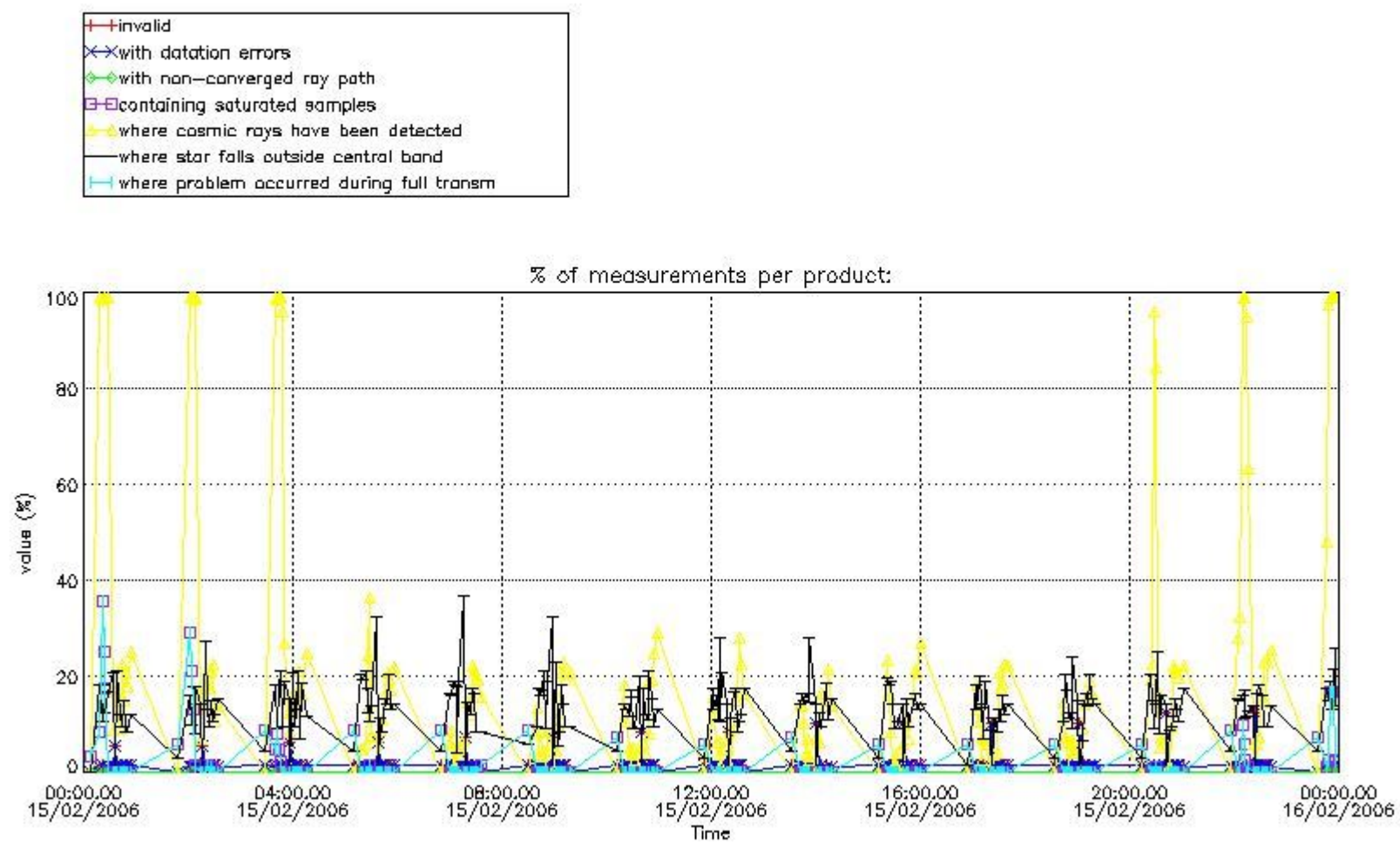


4. Level 1 quality information per product

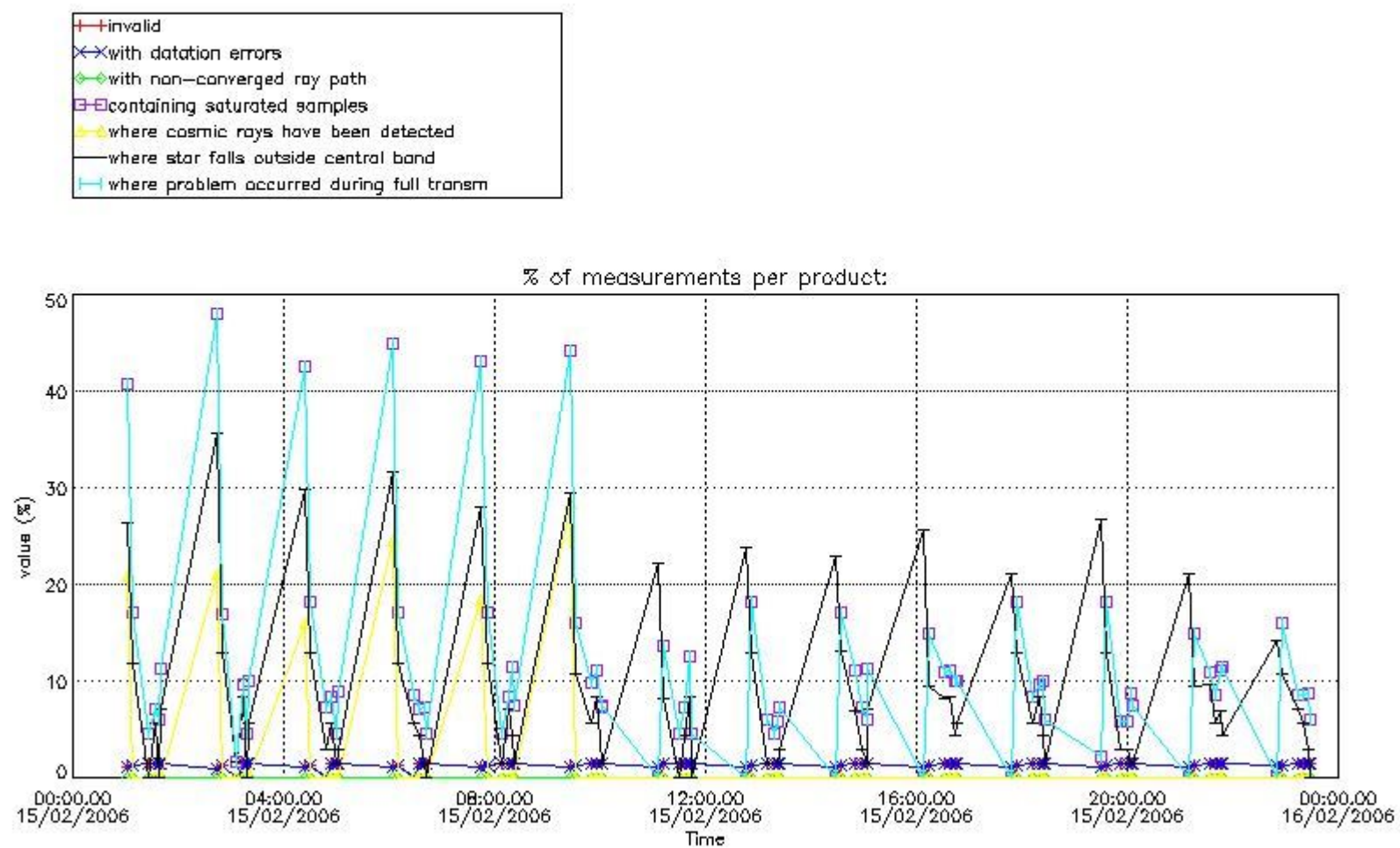
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

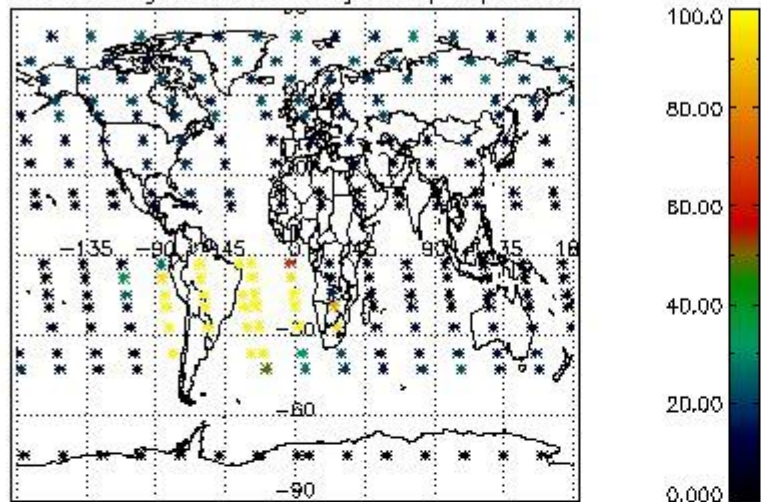


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

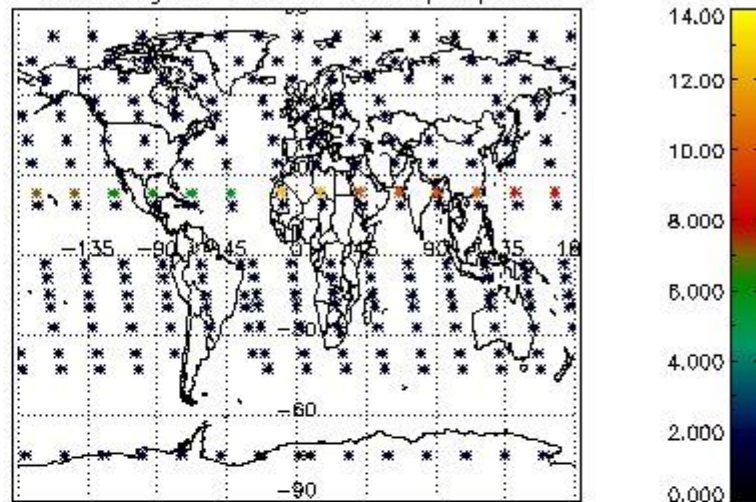


4.2 Plot quality information per product coming from level 1b processing (world map)
 4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes

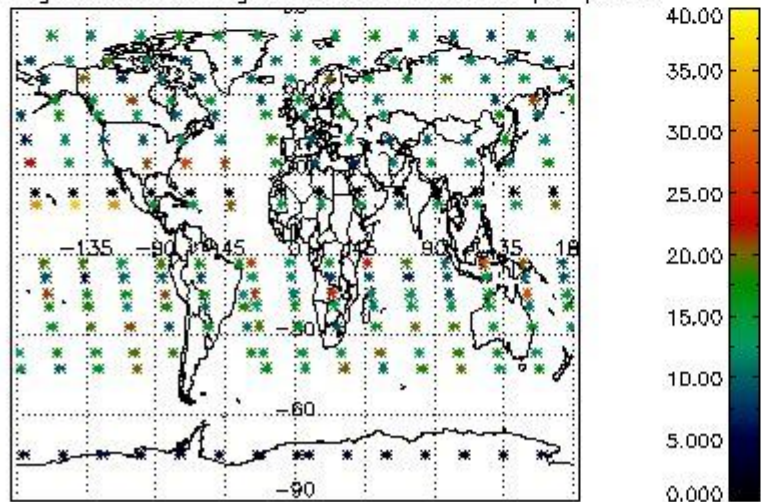
Percentage of cosmic ray hits per profile



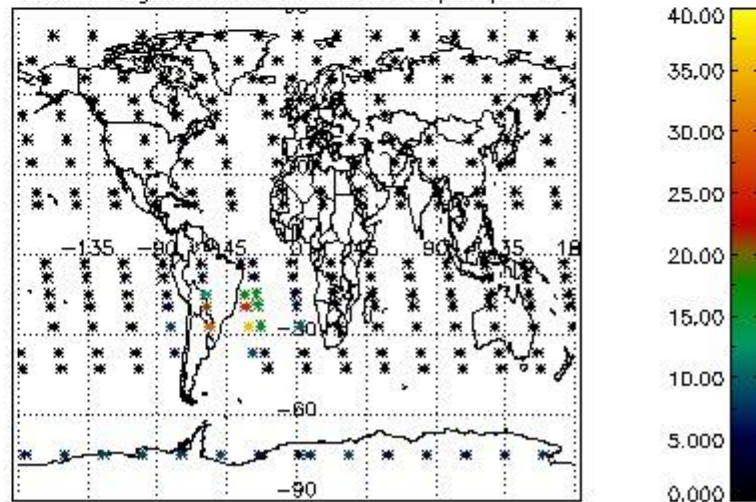
Percentage of datation errors per profile



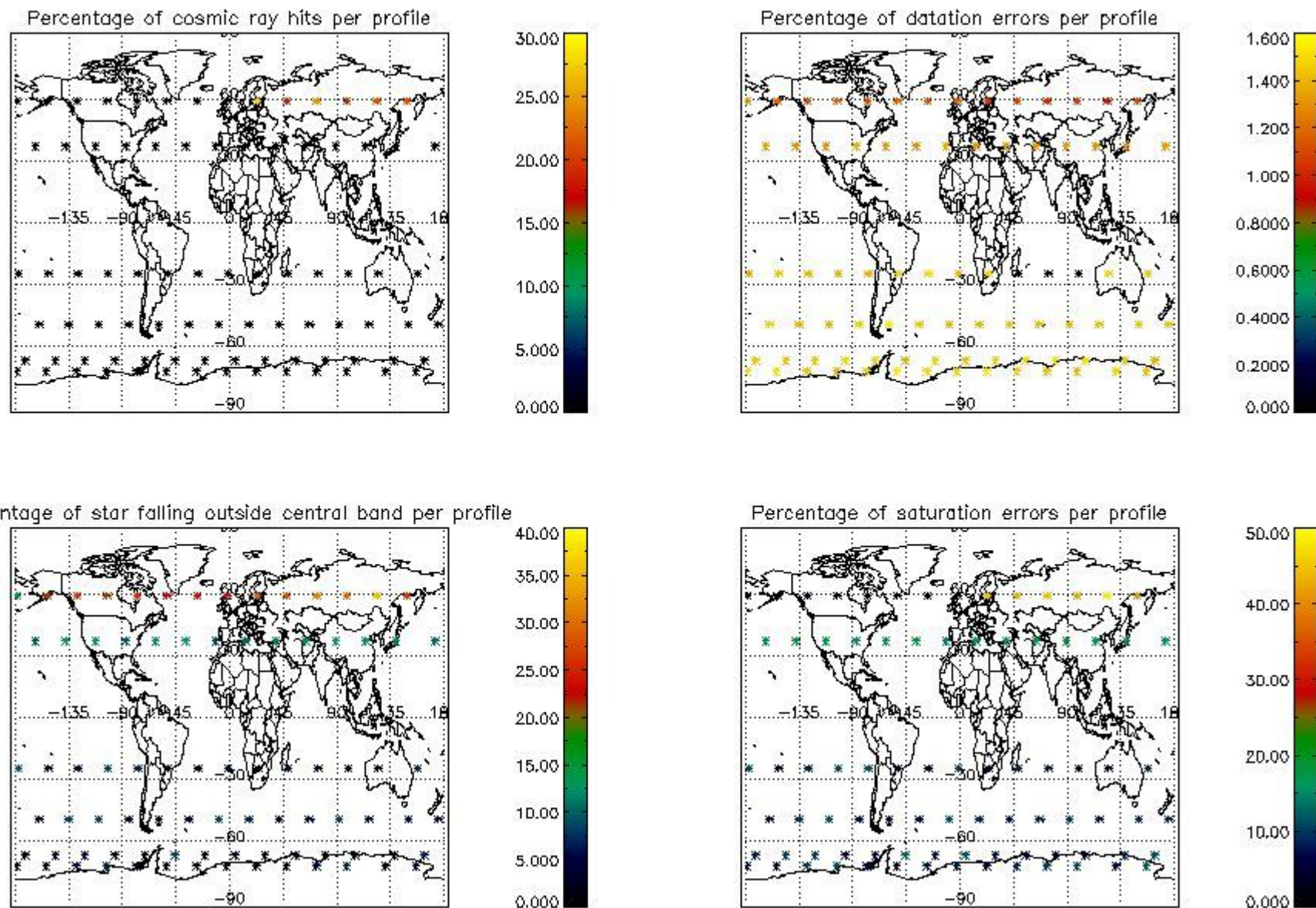
Percentage of star falling outside central band per profile



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

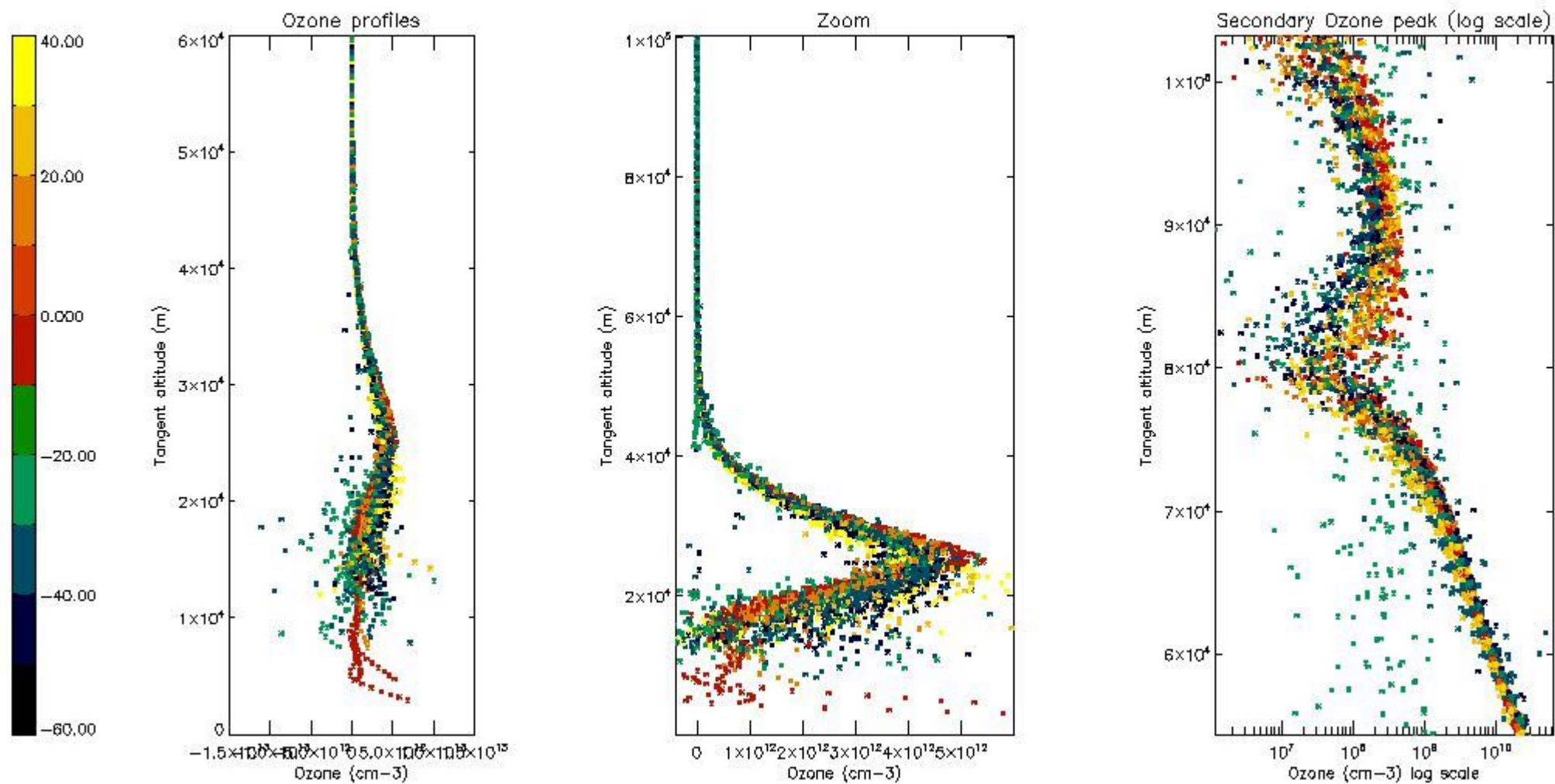
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	49
STD < 20	27

STD < 10	22
STD < 5	15

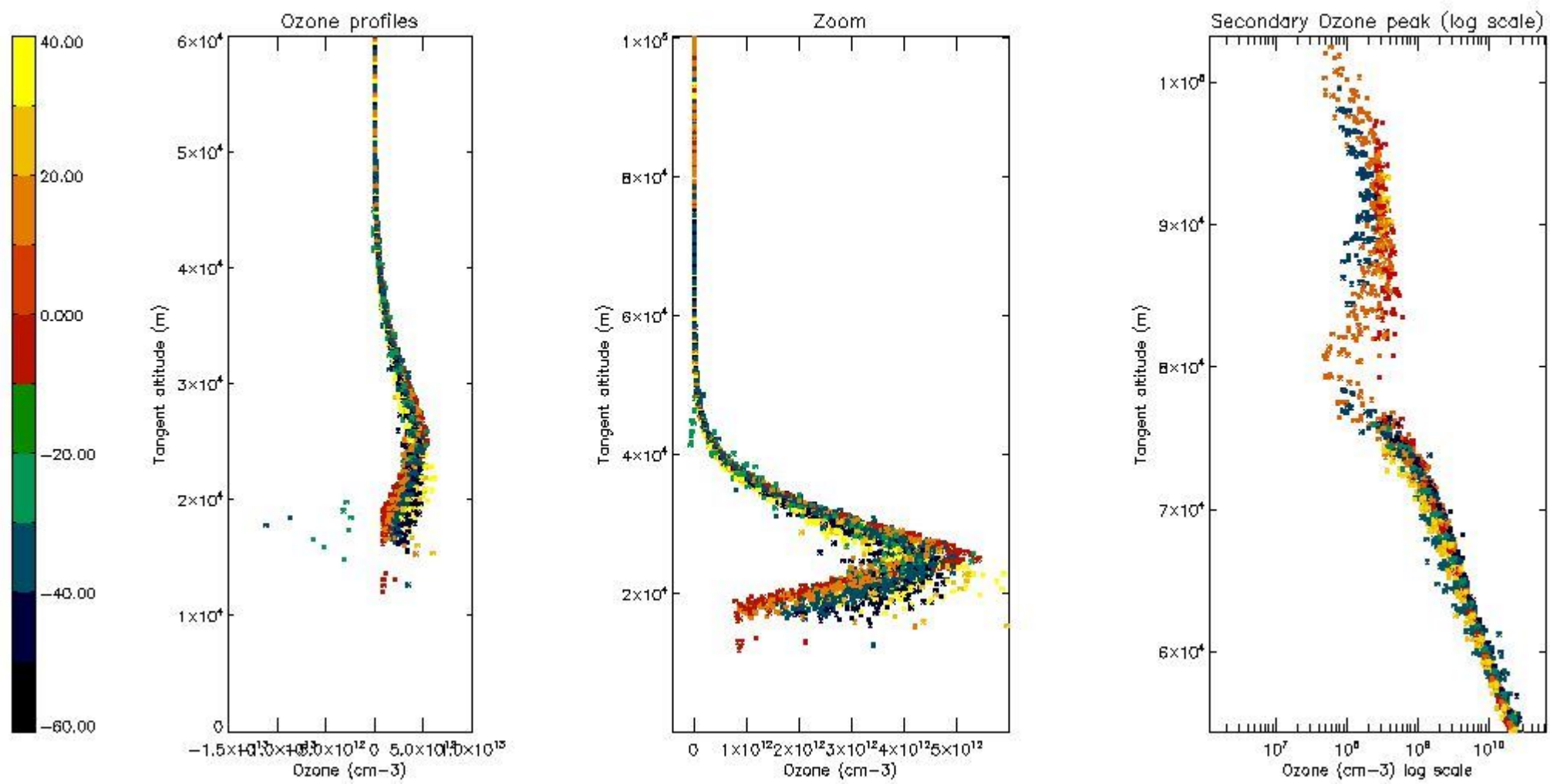
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



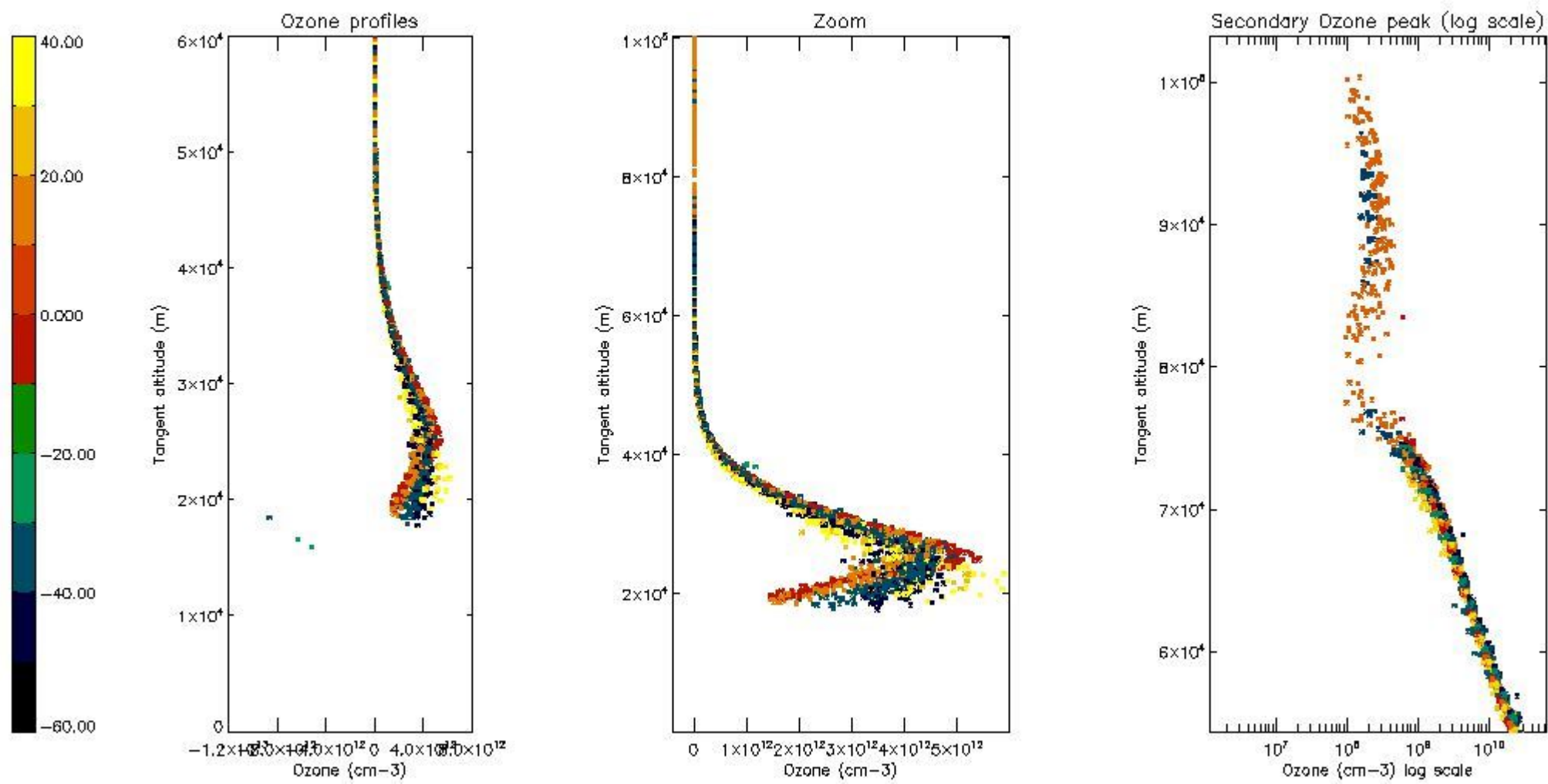
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



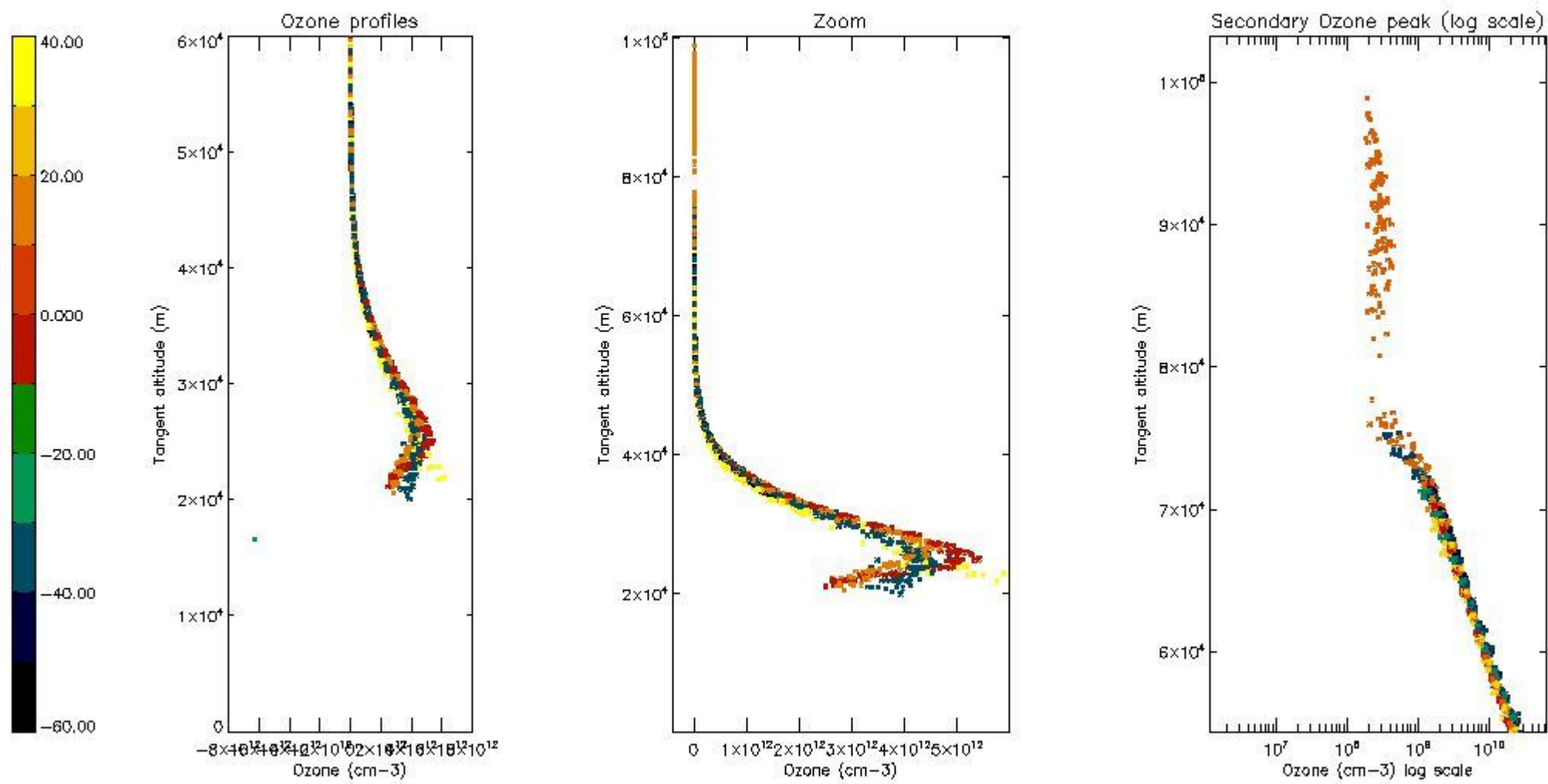
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



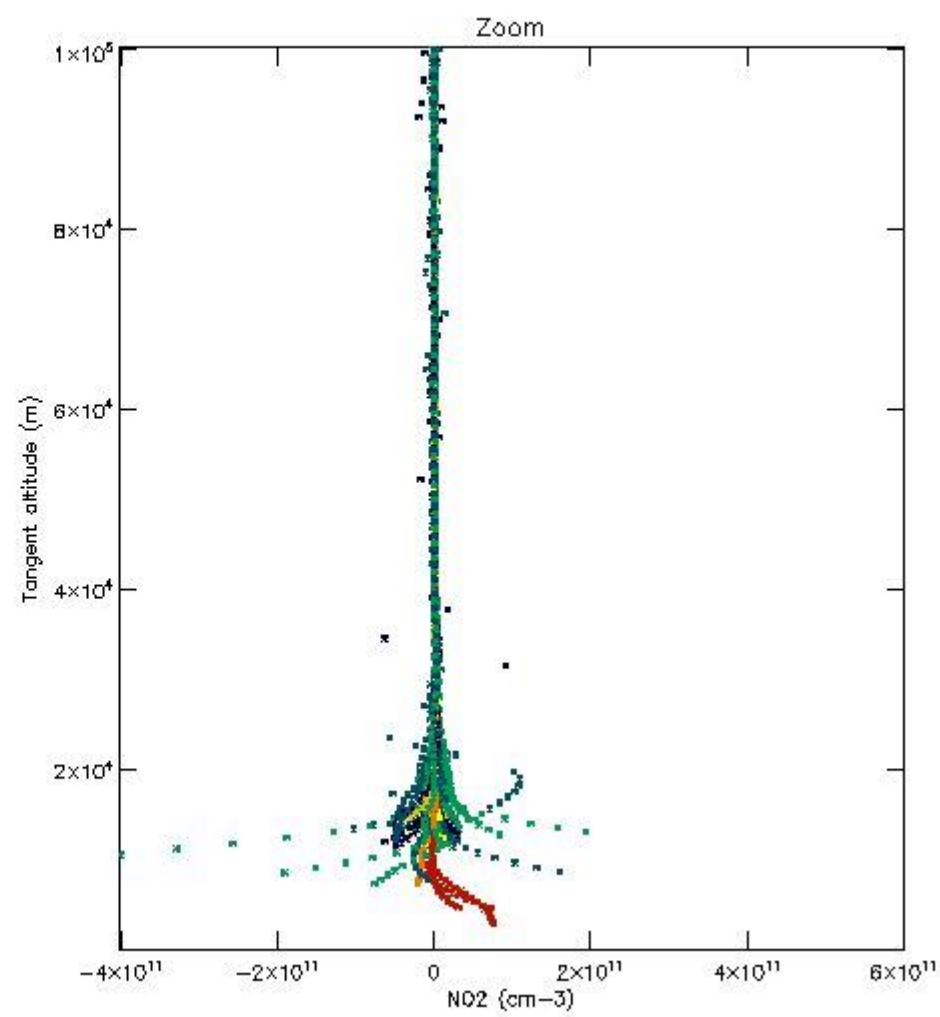
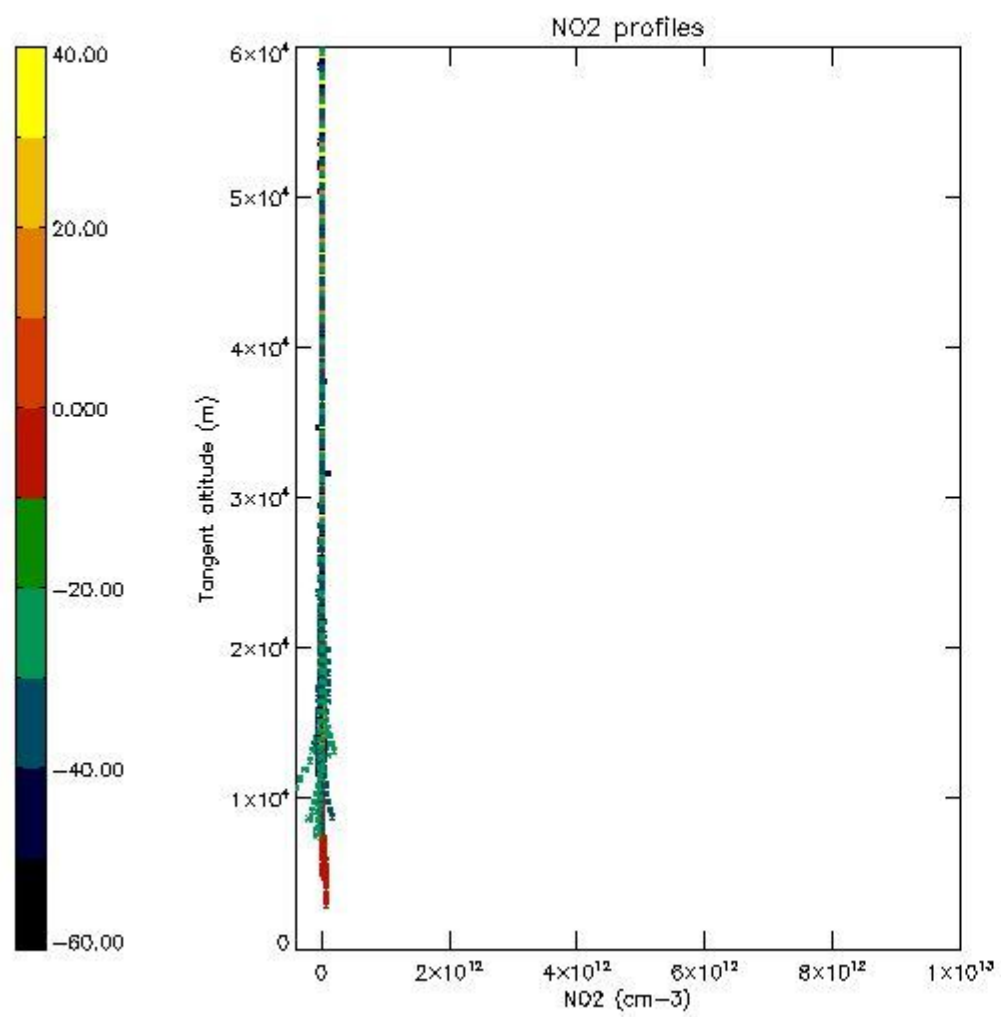
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



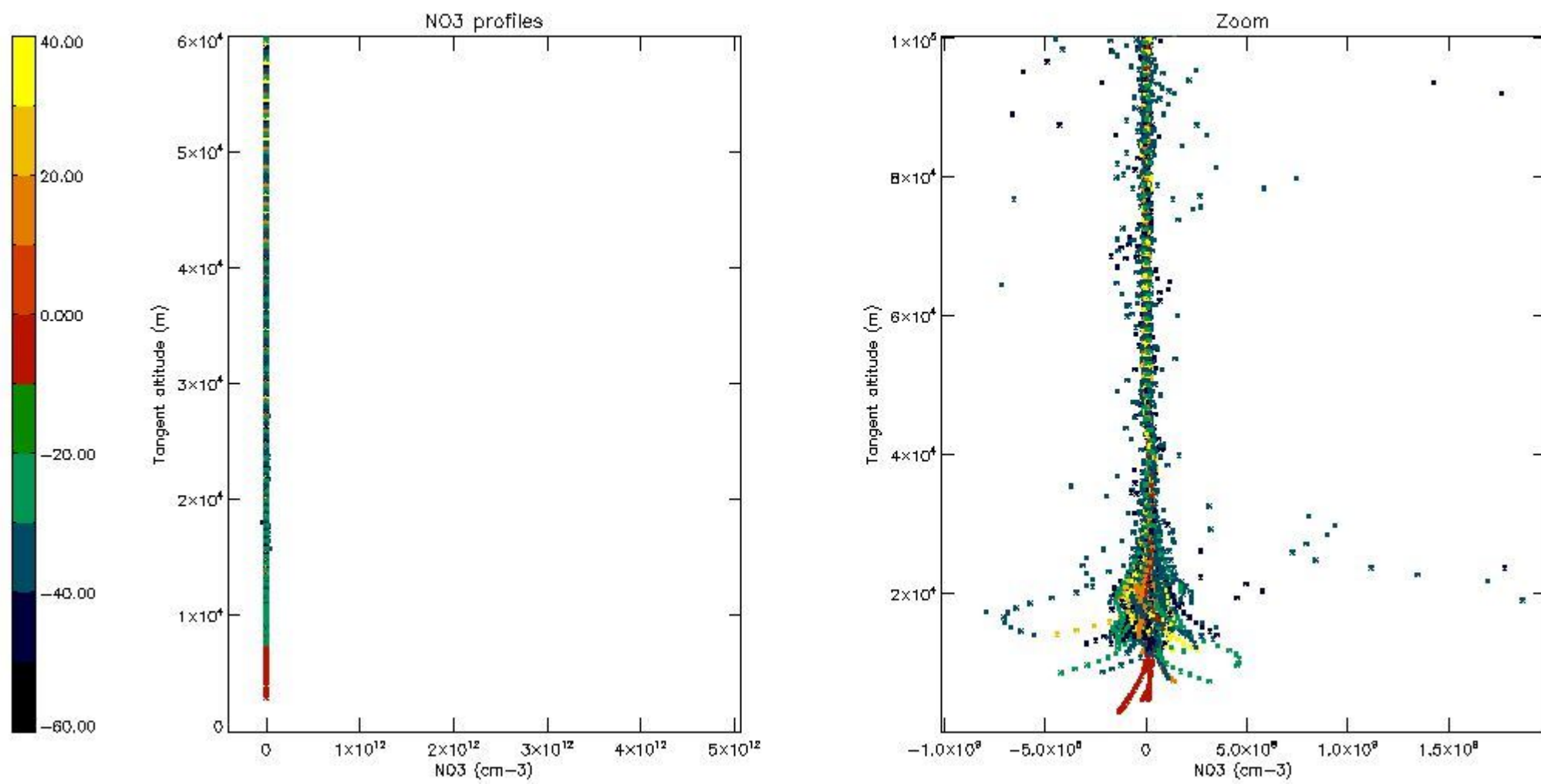
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



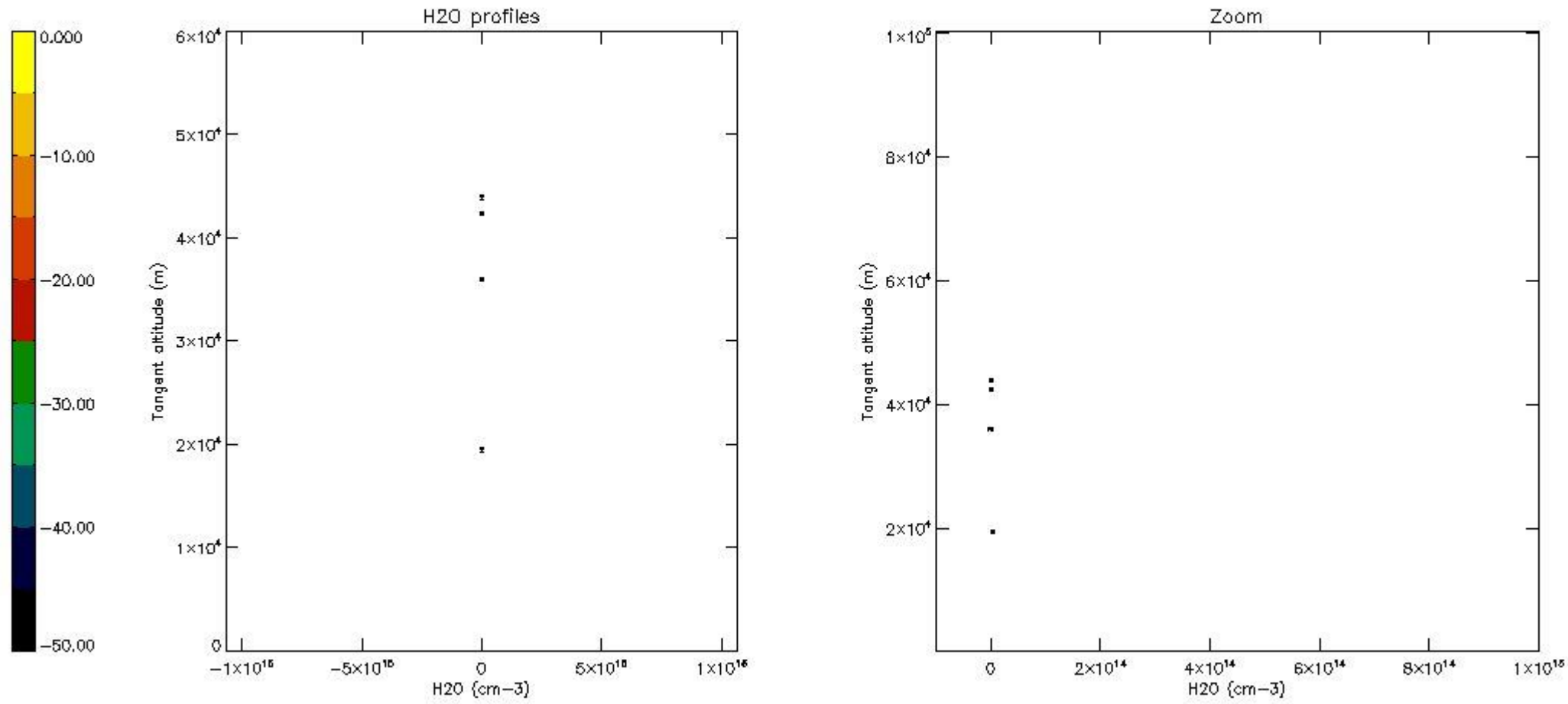
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

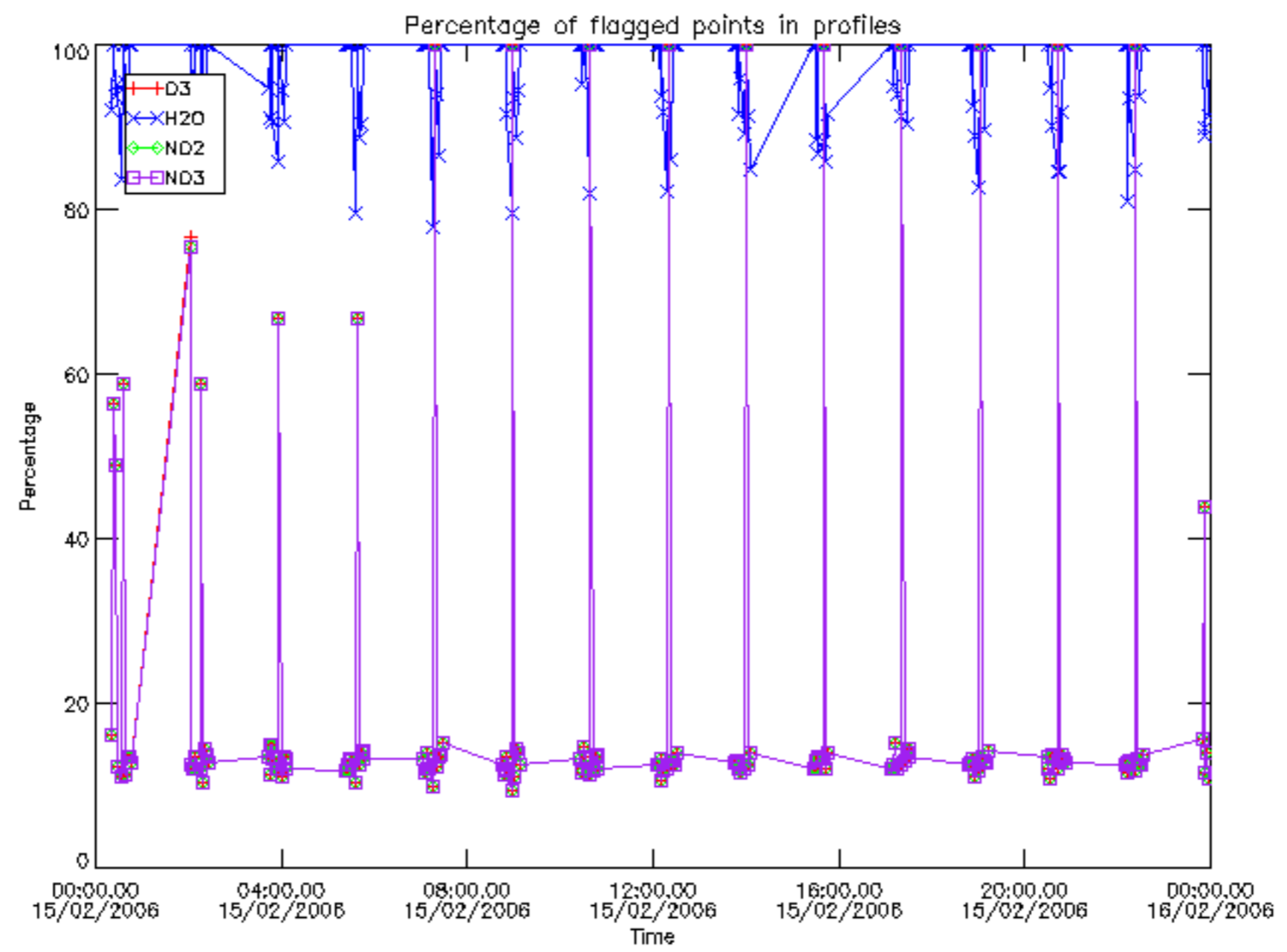
The colorbar represents the latitude.



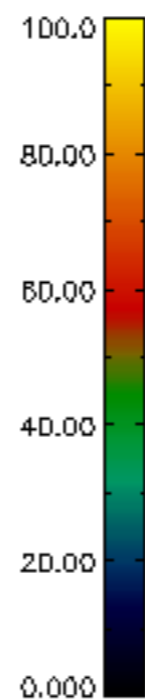
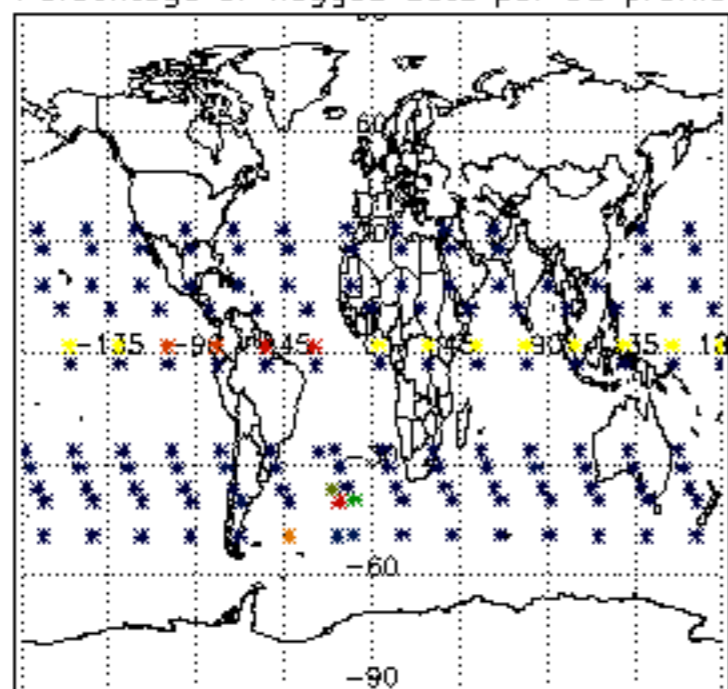
6. Auxiliary Data Files used for the production reported in section 2

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.

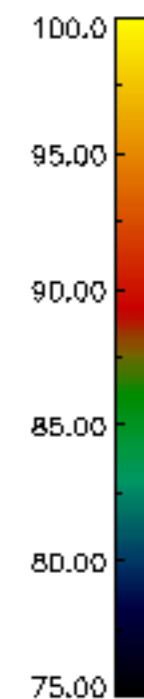
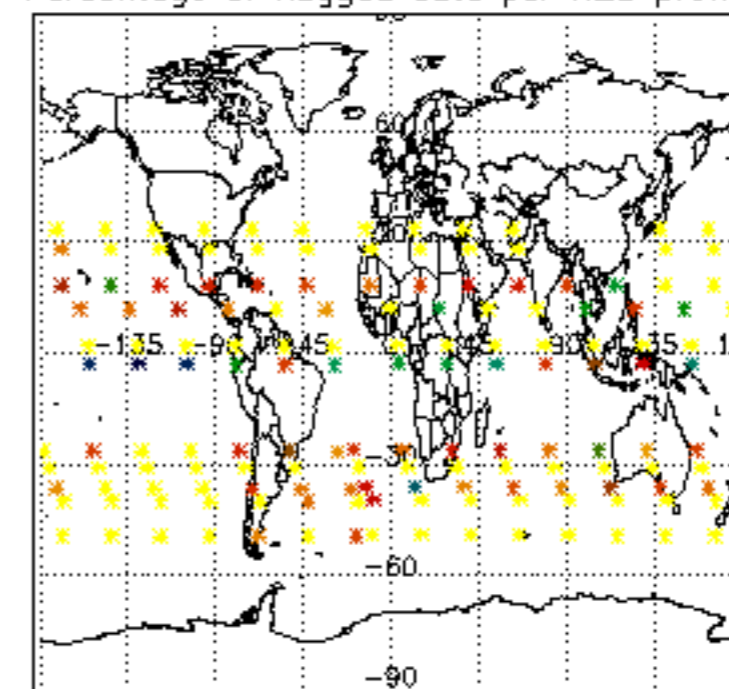
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	15-FEB-2006 00:07:25
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	15-FEB-2006 00:07:25
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	15-FEB-2006 00:07:25



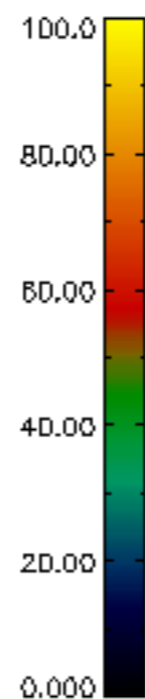
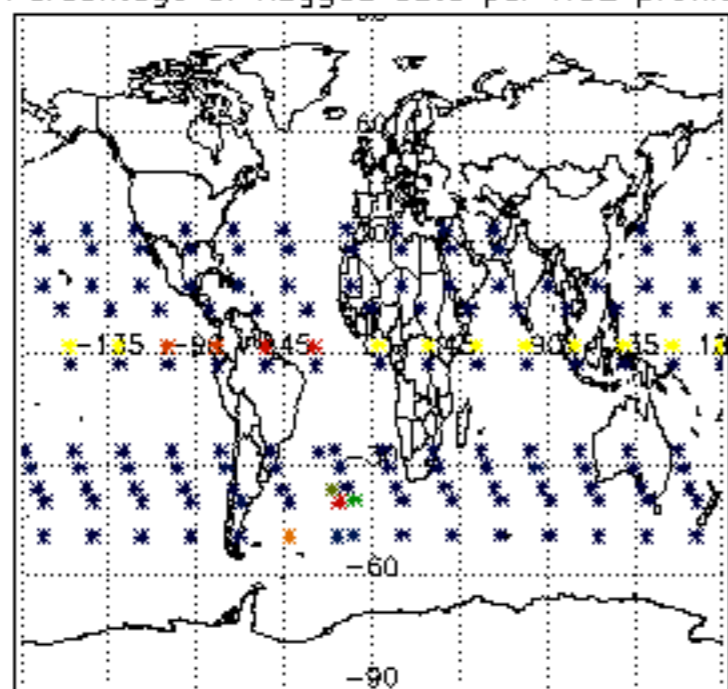
Percentage of flagged data per D3 profile



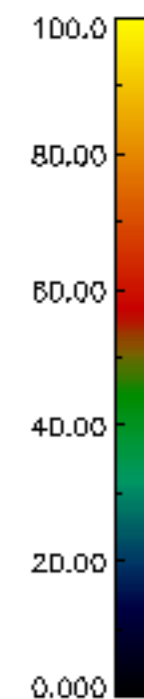
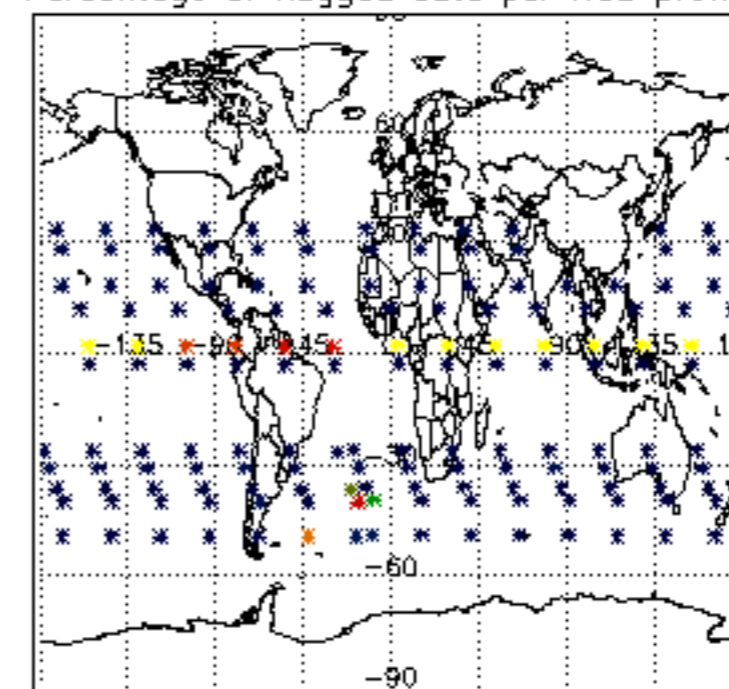
Percentage of flagged data per H2O profile

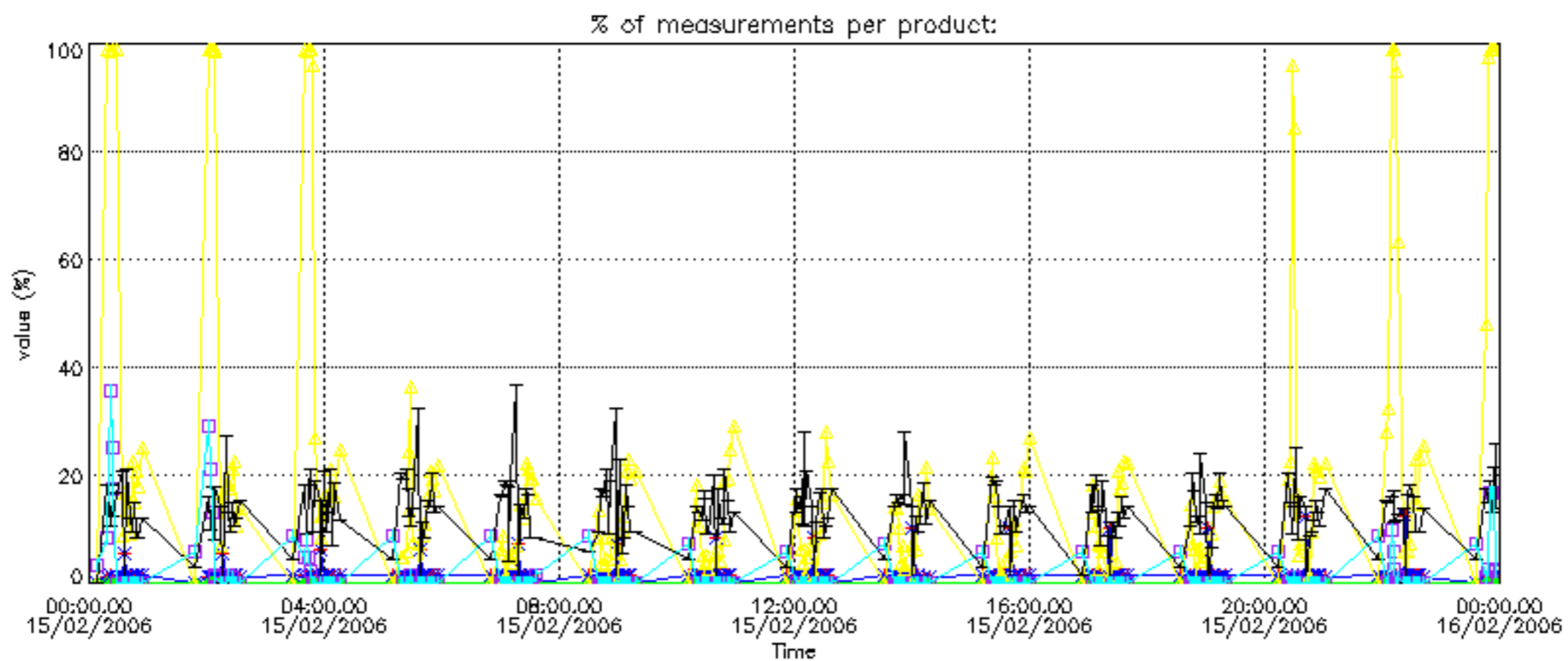


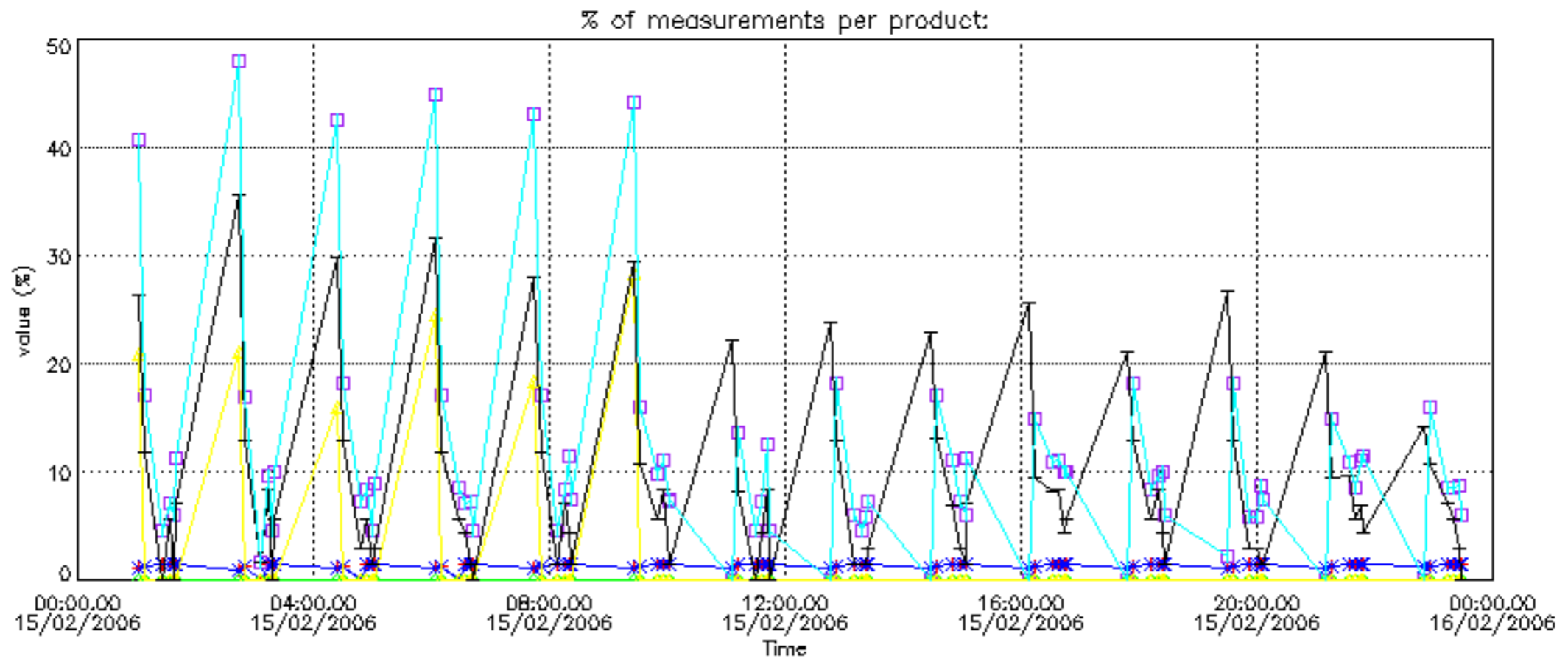
Percentage of flagged data per NO2 profile



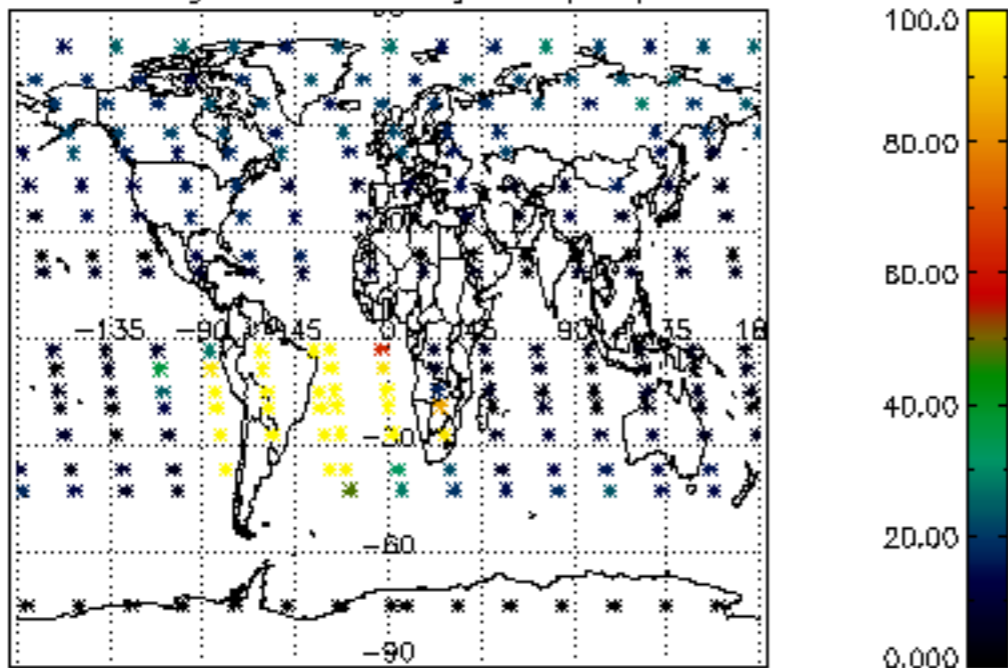
Percentage of flagged data per NO3 profile



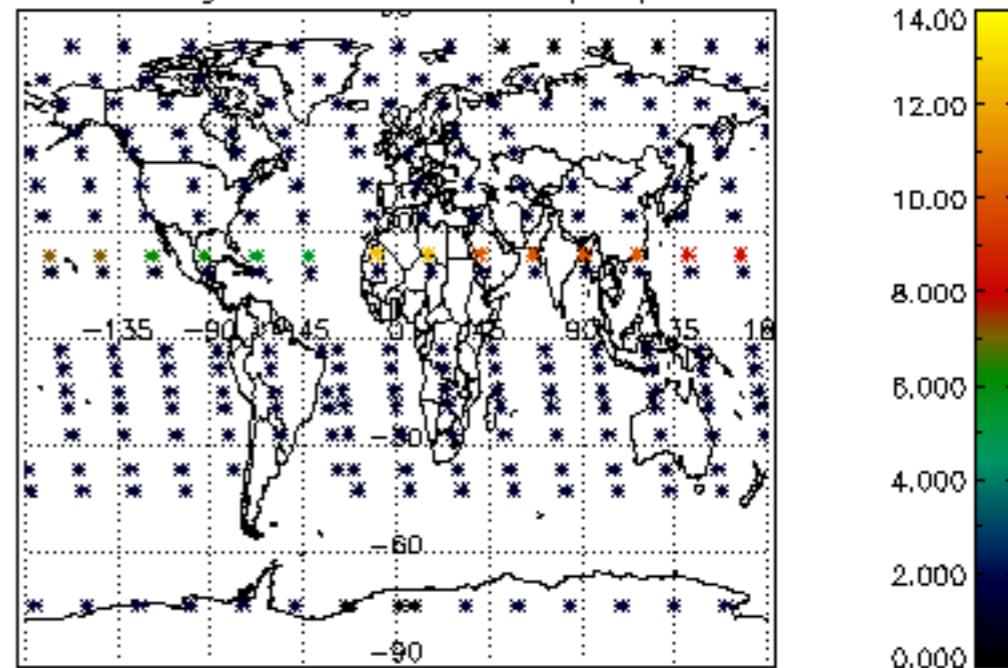




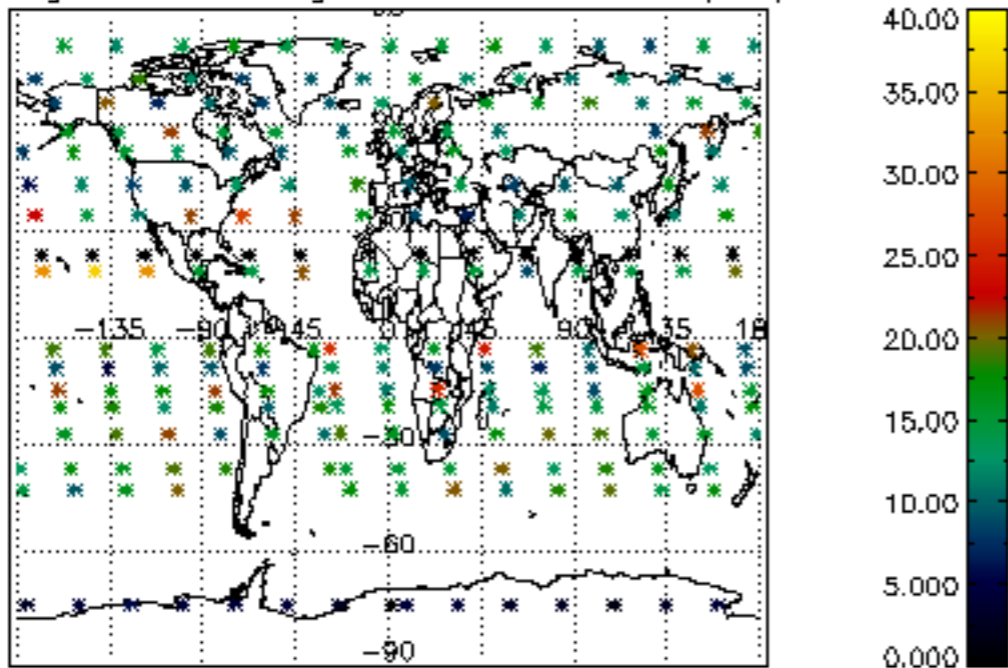
Percentage of cosmic ray hits per profile



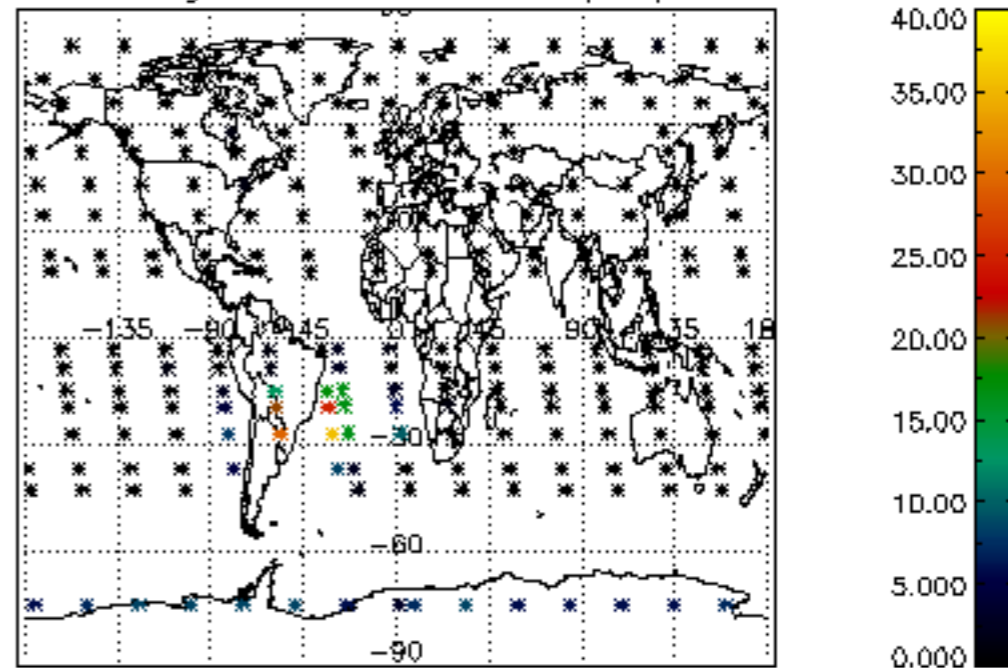
Percentage of datation errors per profile



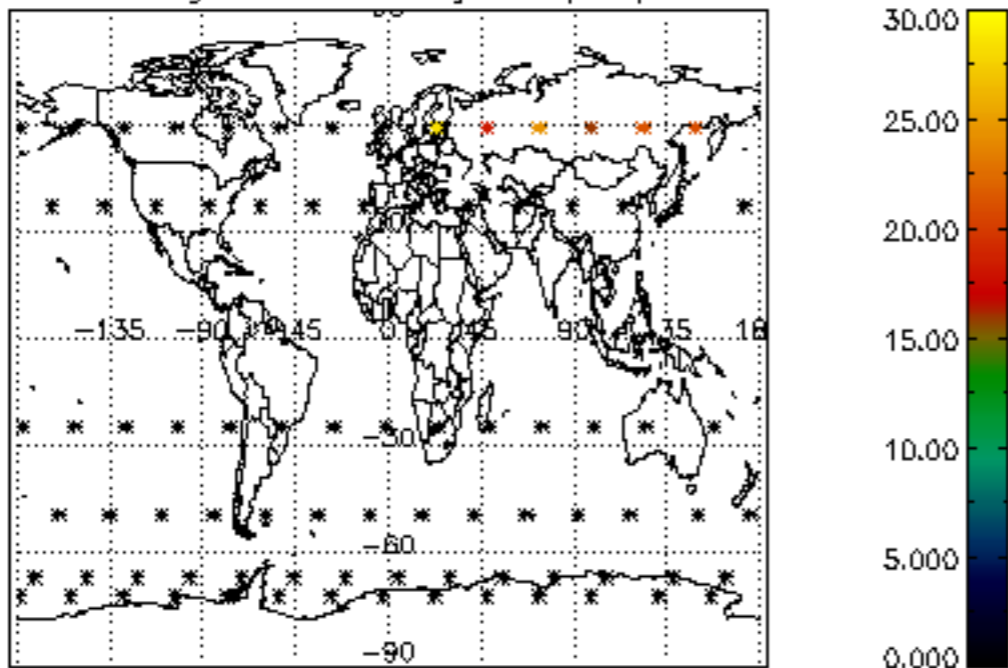
Percentage of star falling outside central band per profile



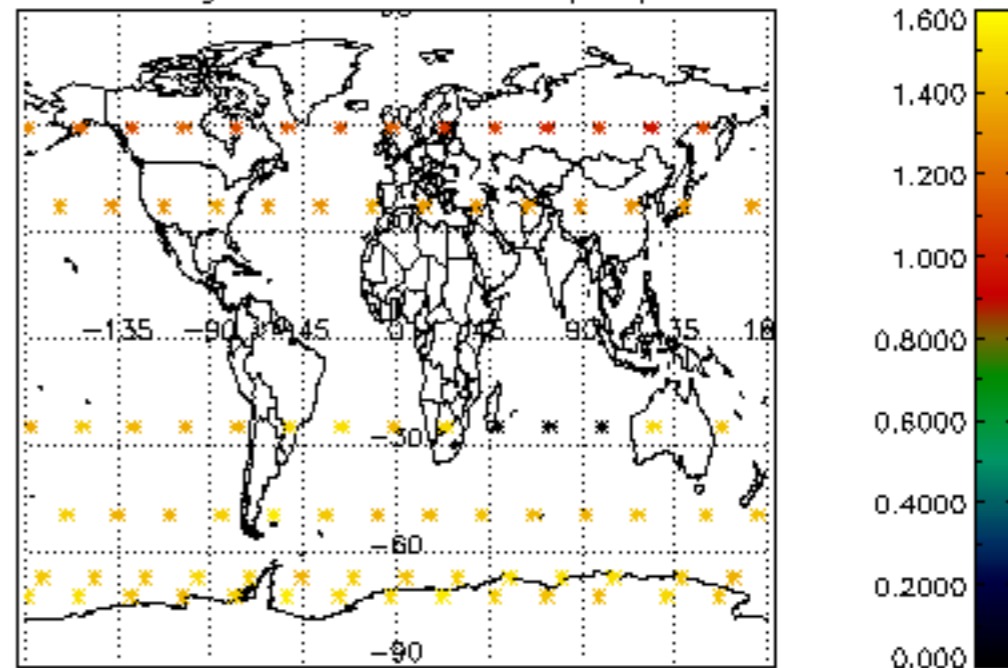
Percentage of saturation errors per profile



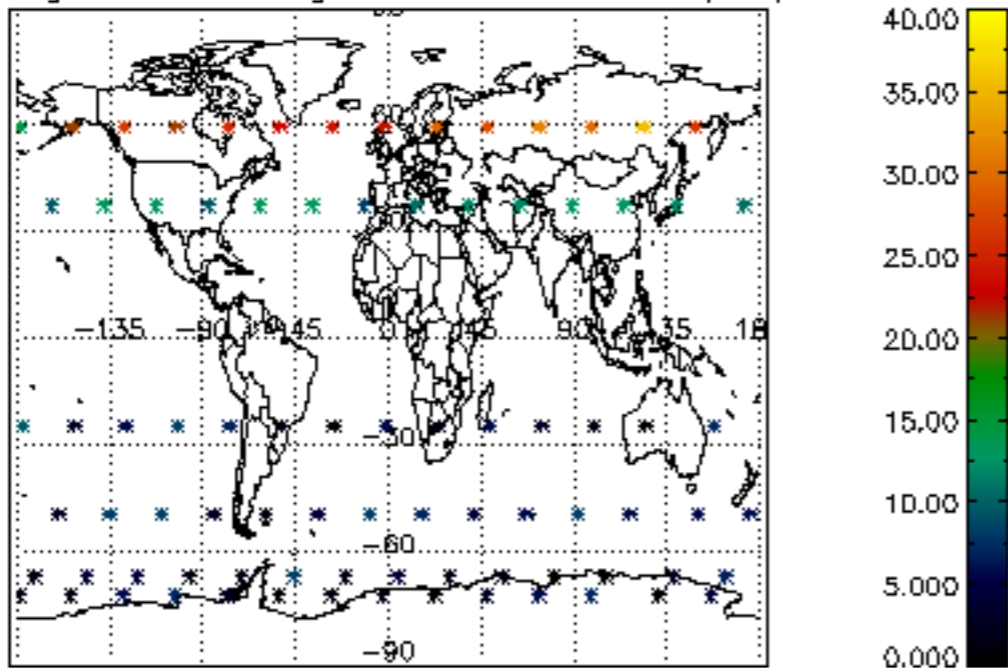
Percentage of cosmic ray hits per profile



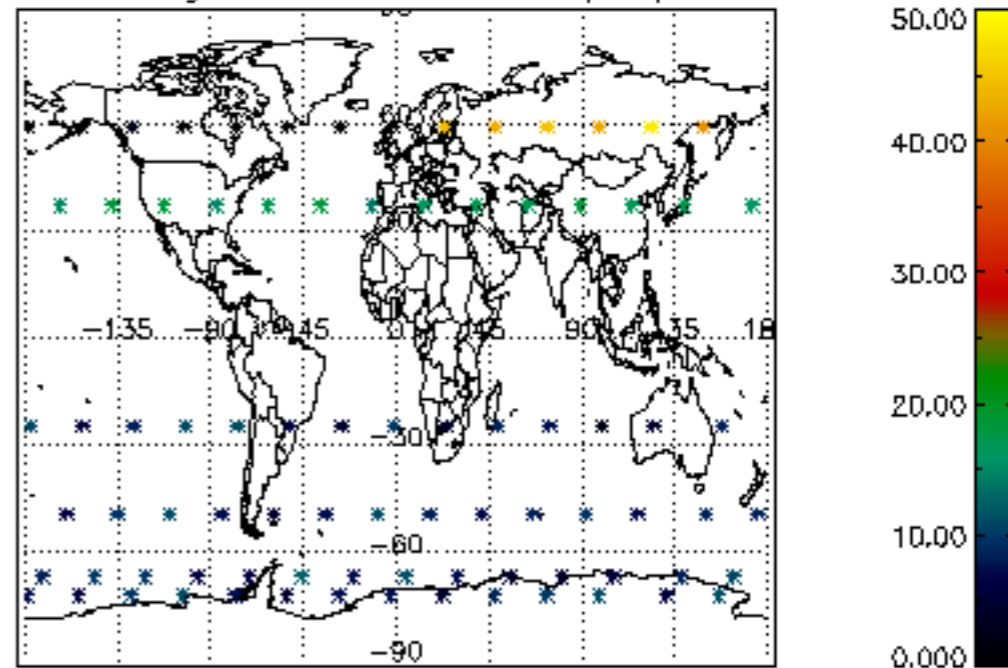
Percentage of datation errors per profile

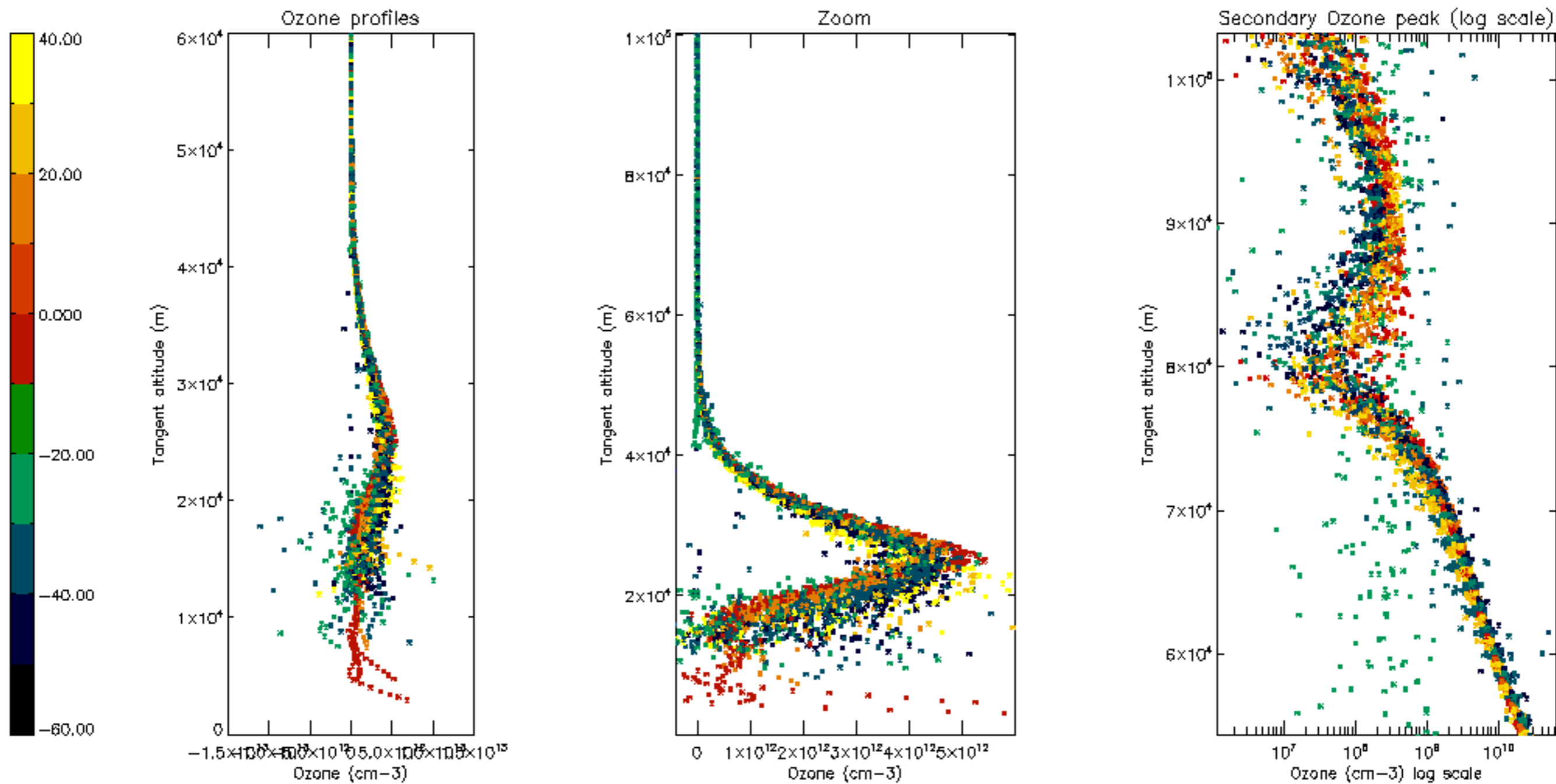


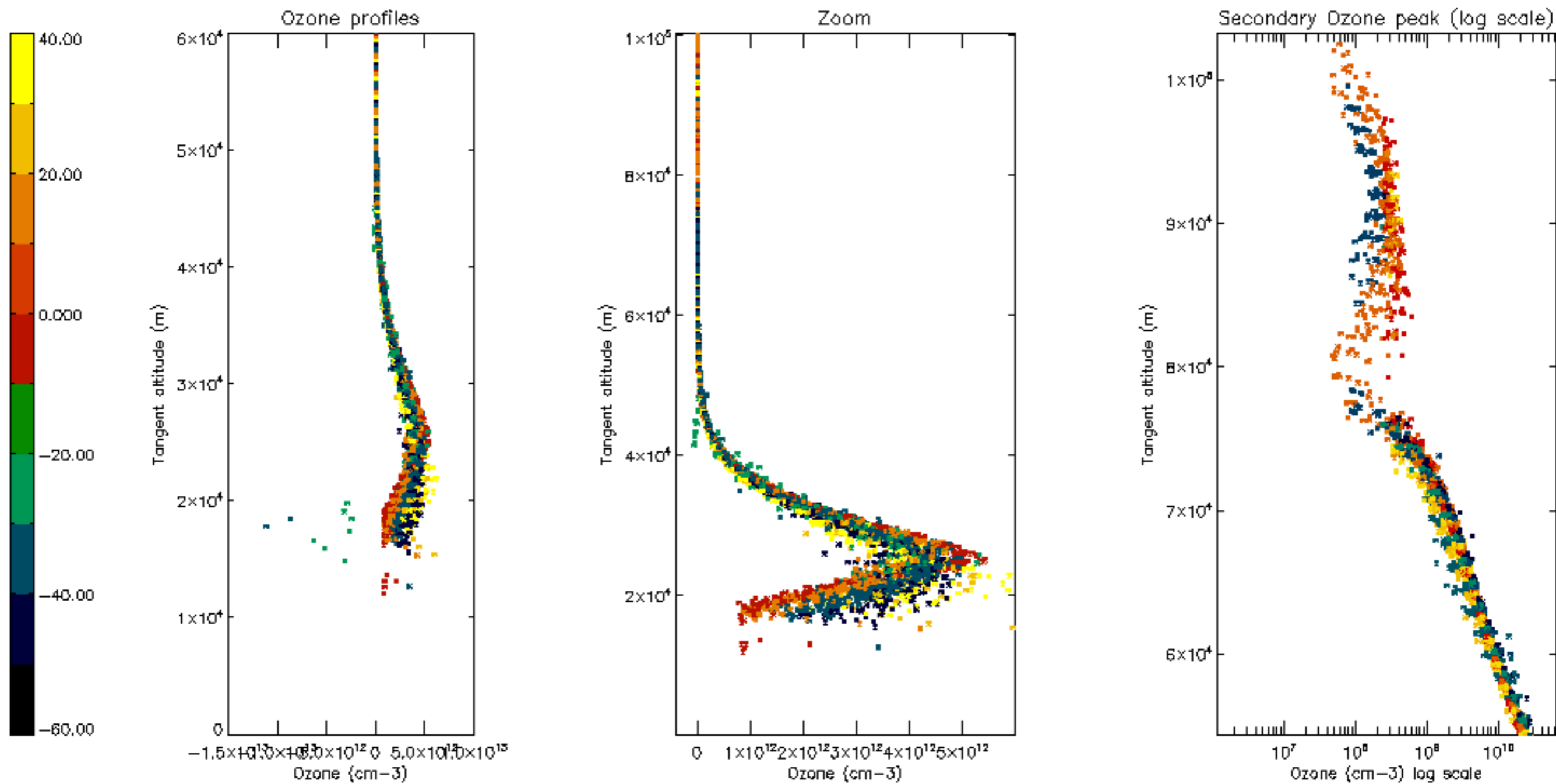
Percentage of star falling outside central band per profile

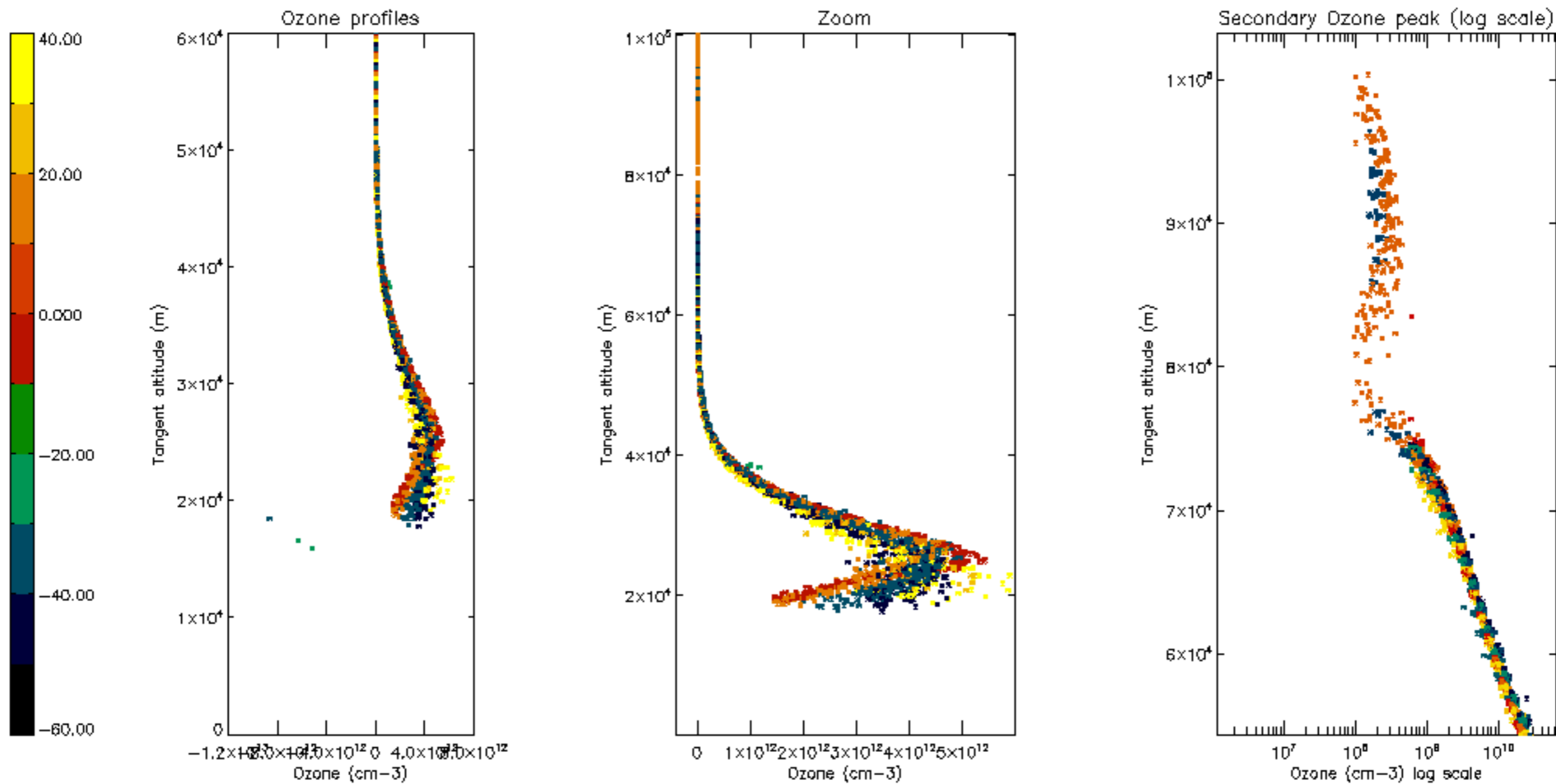


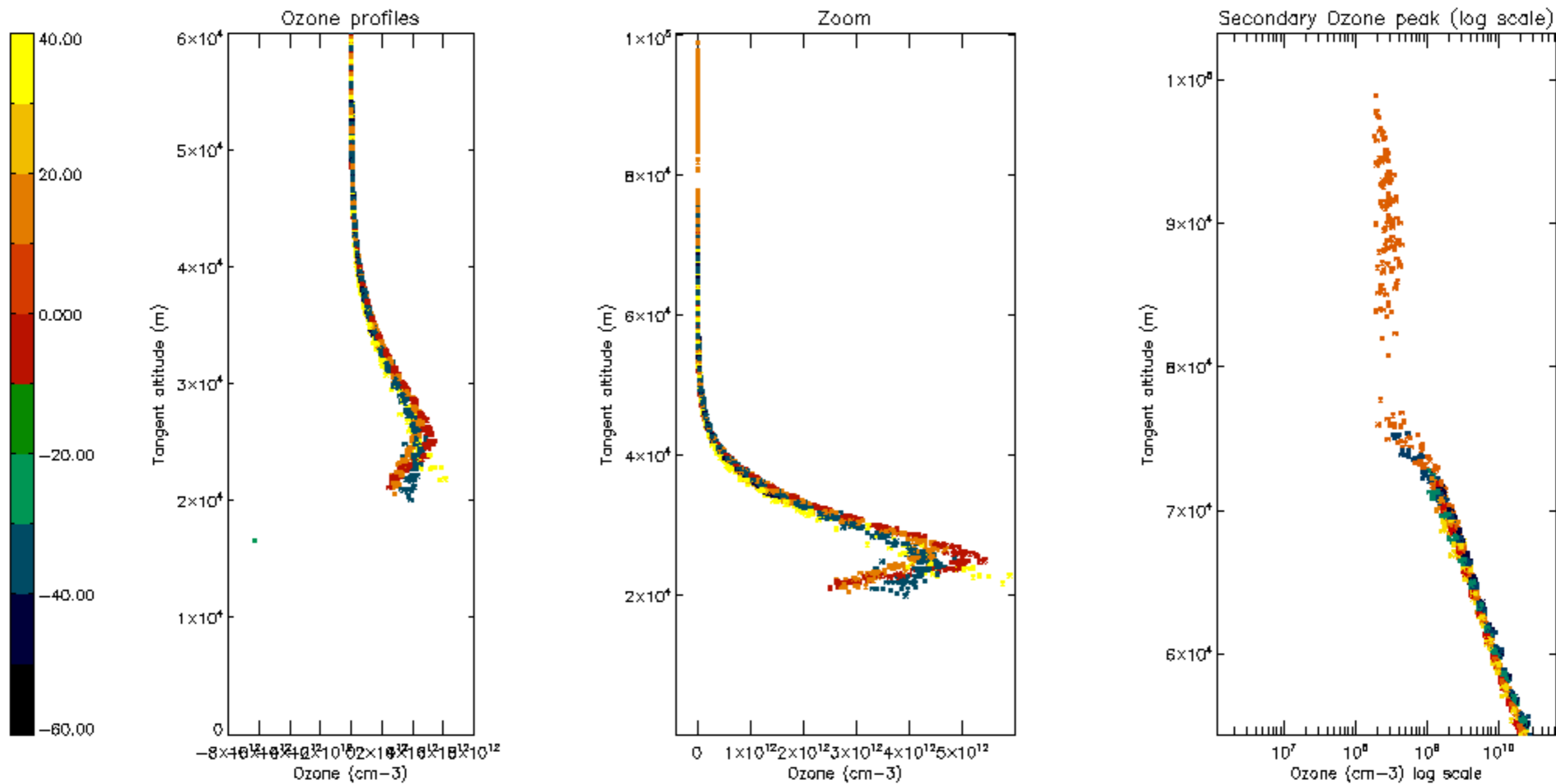
Percentage of saturation errors per profile

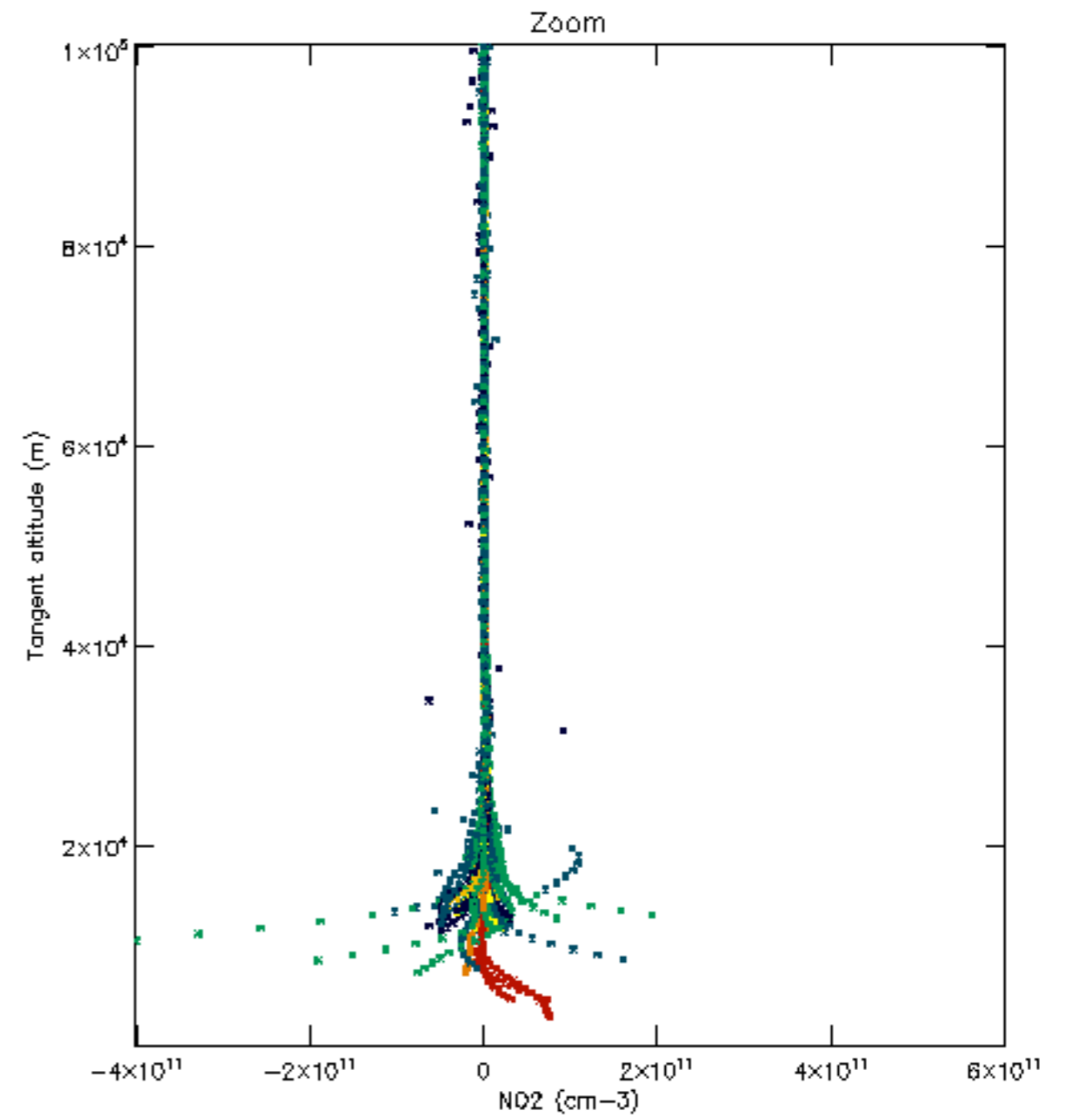
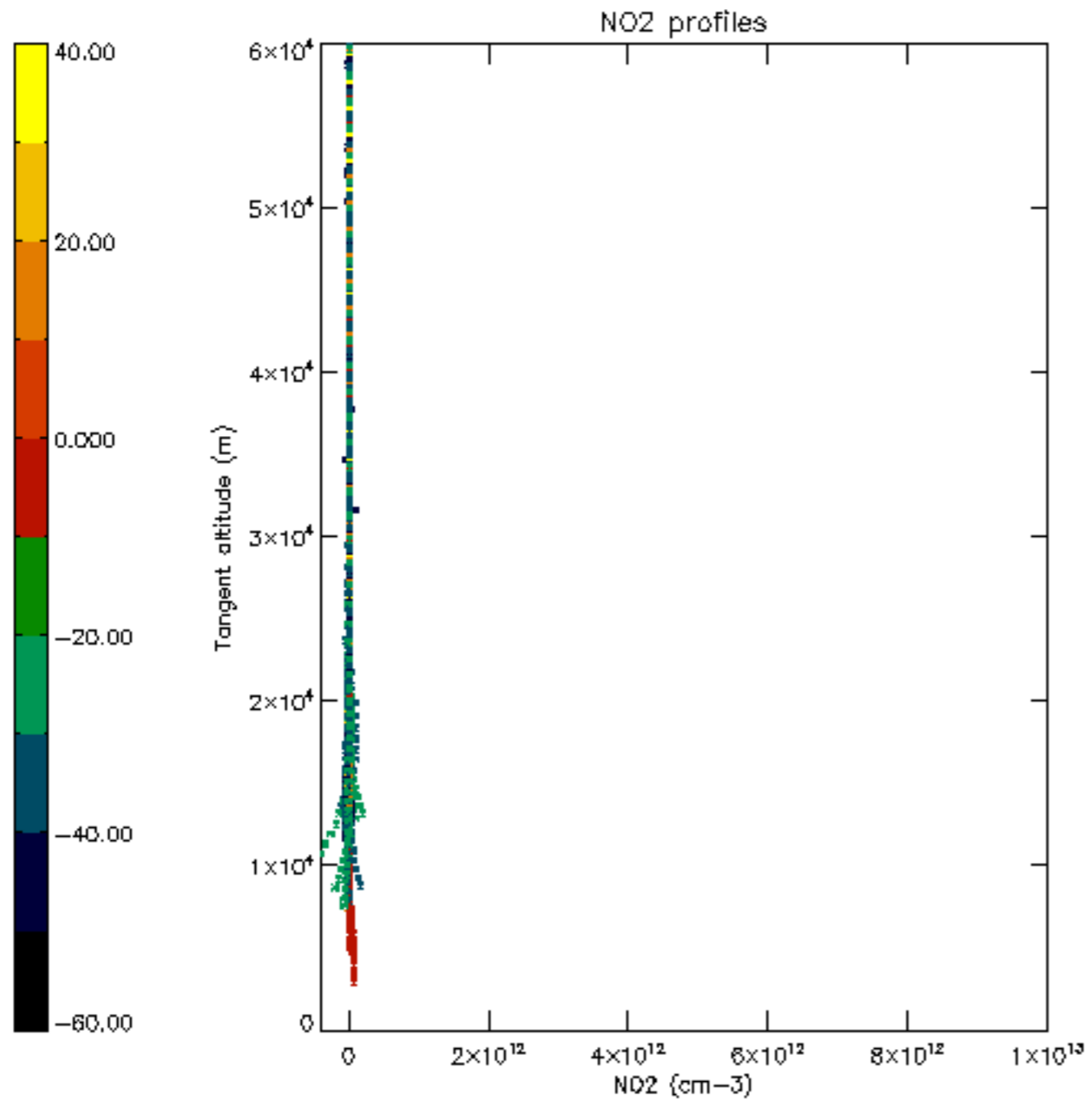


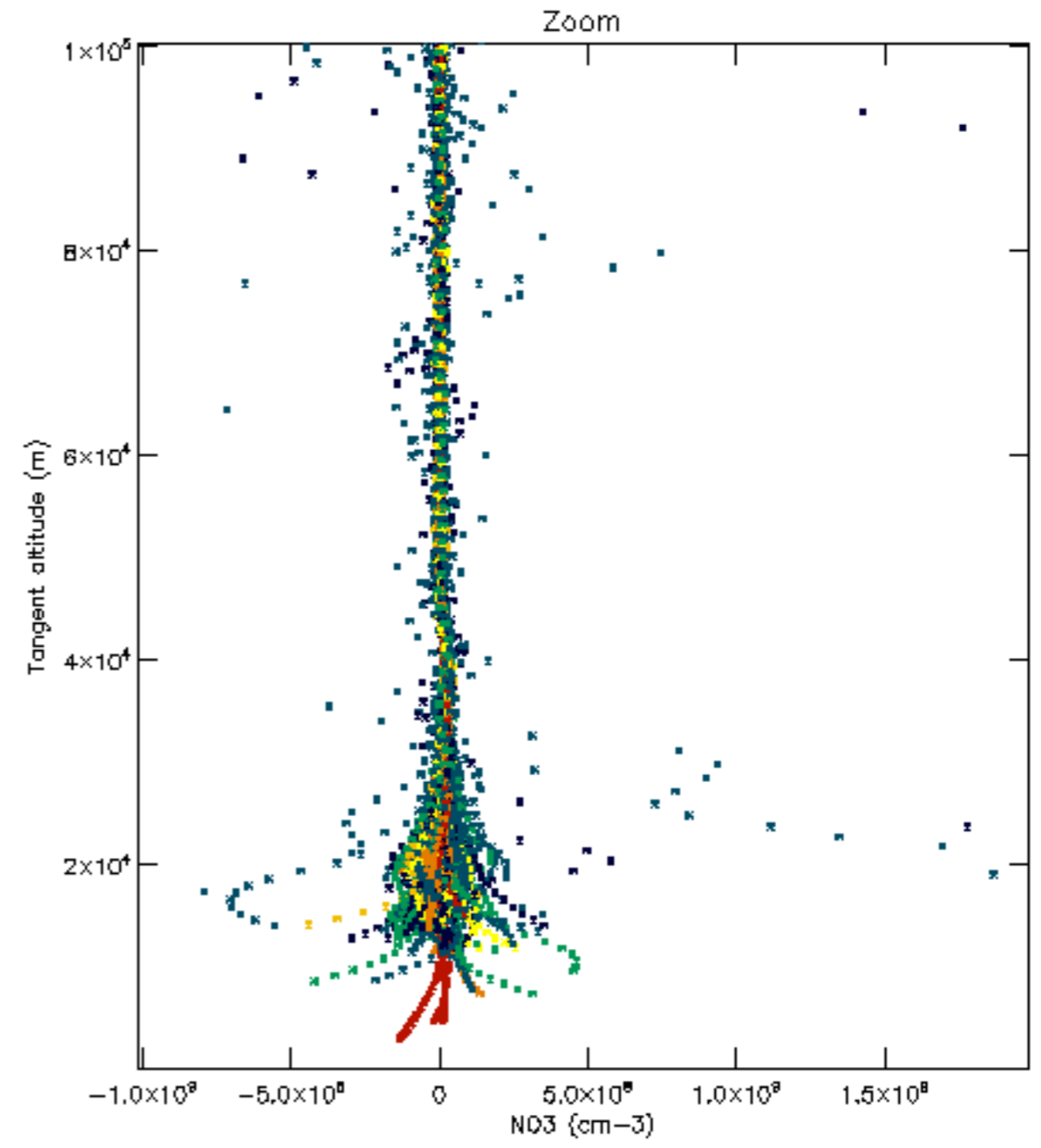
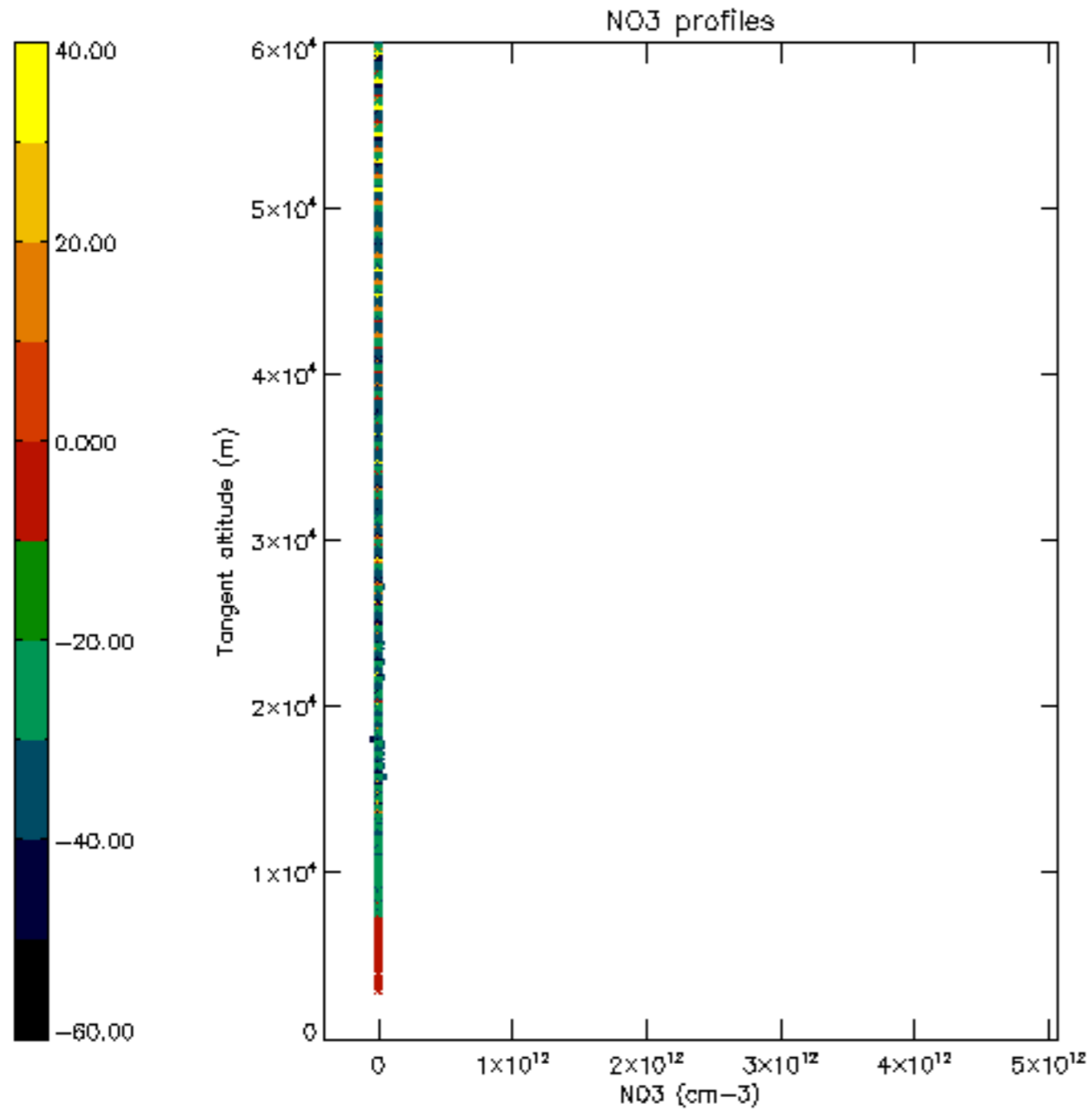


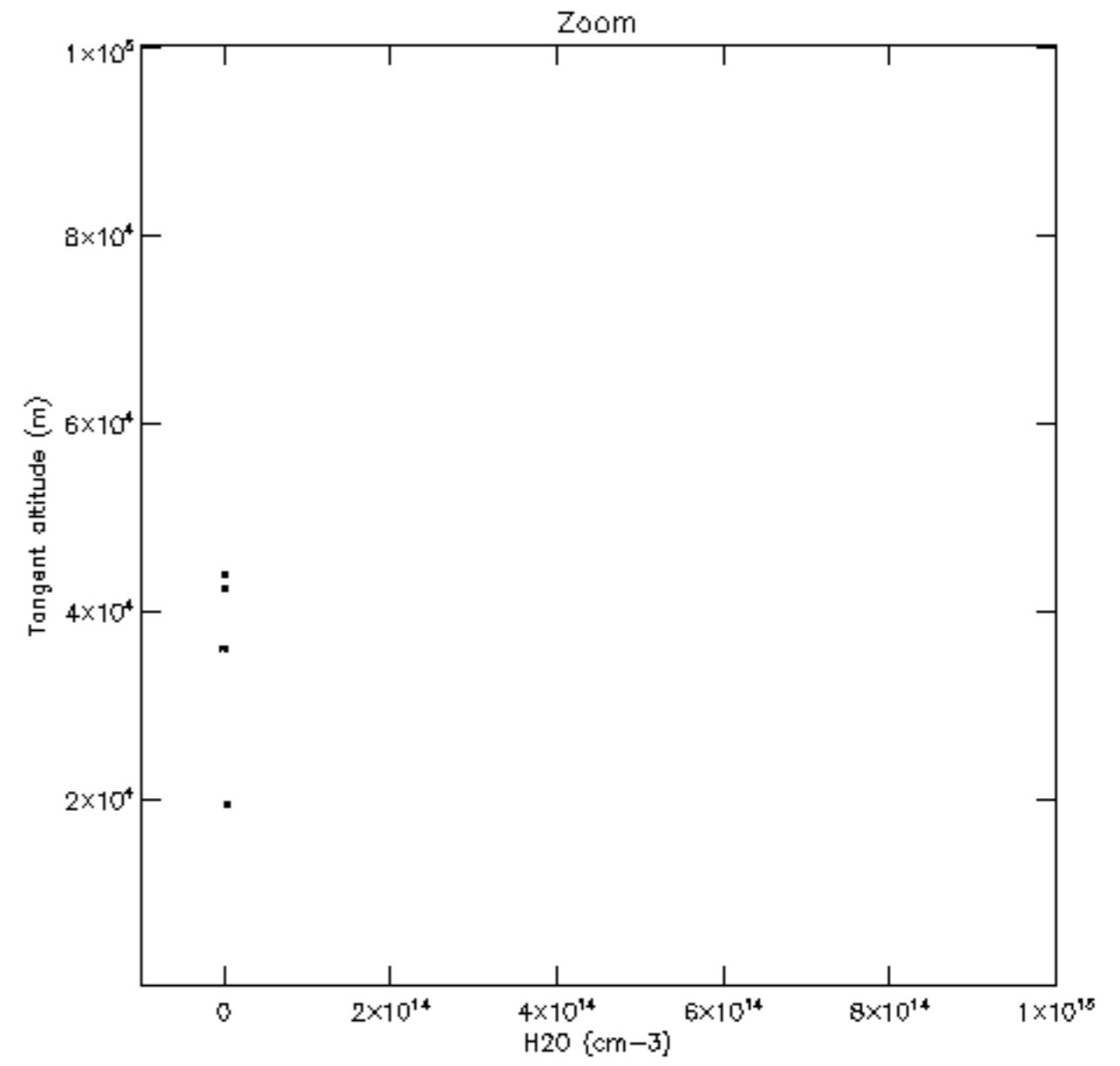
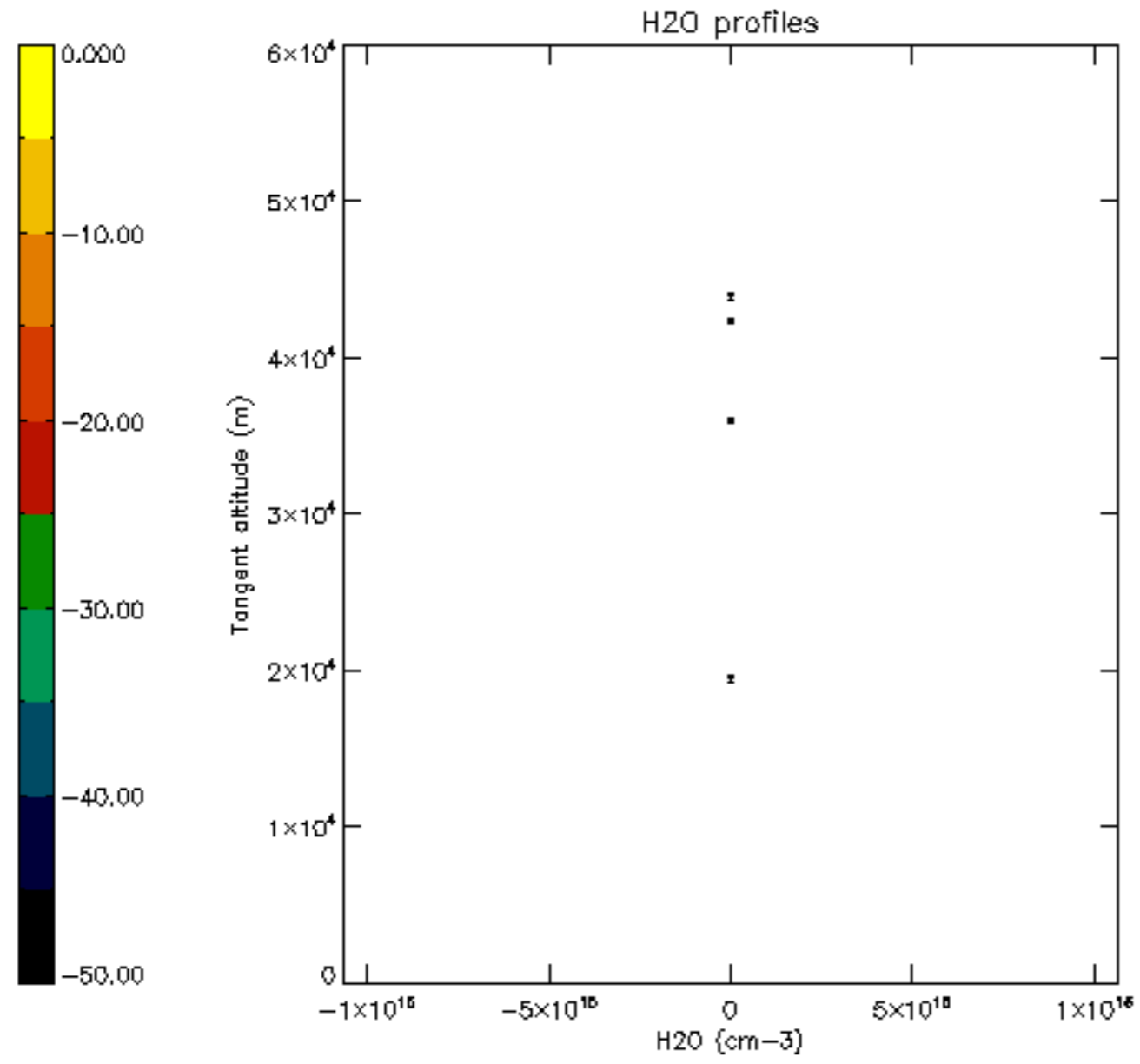


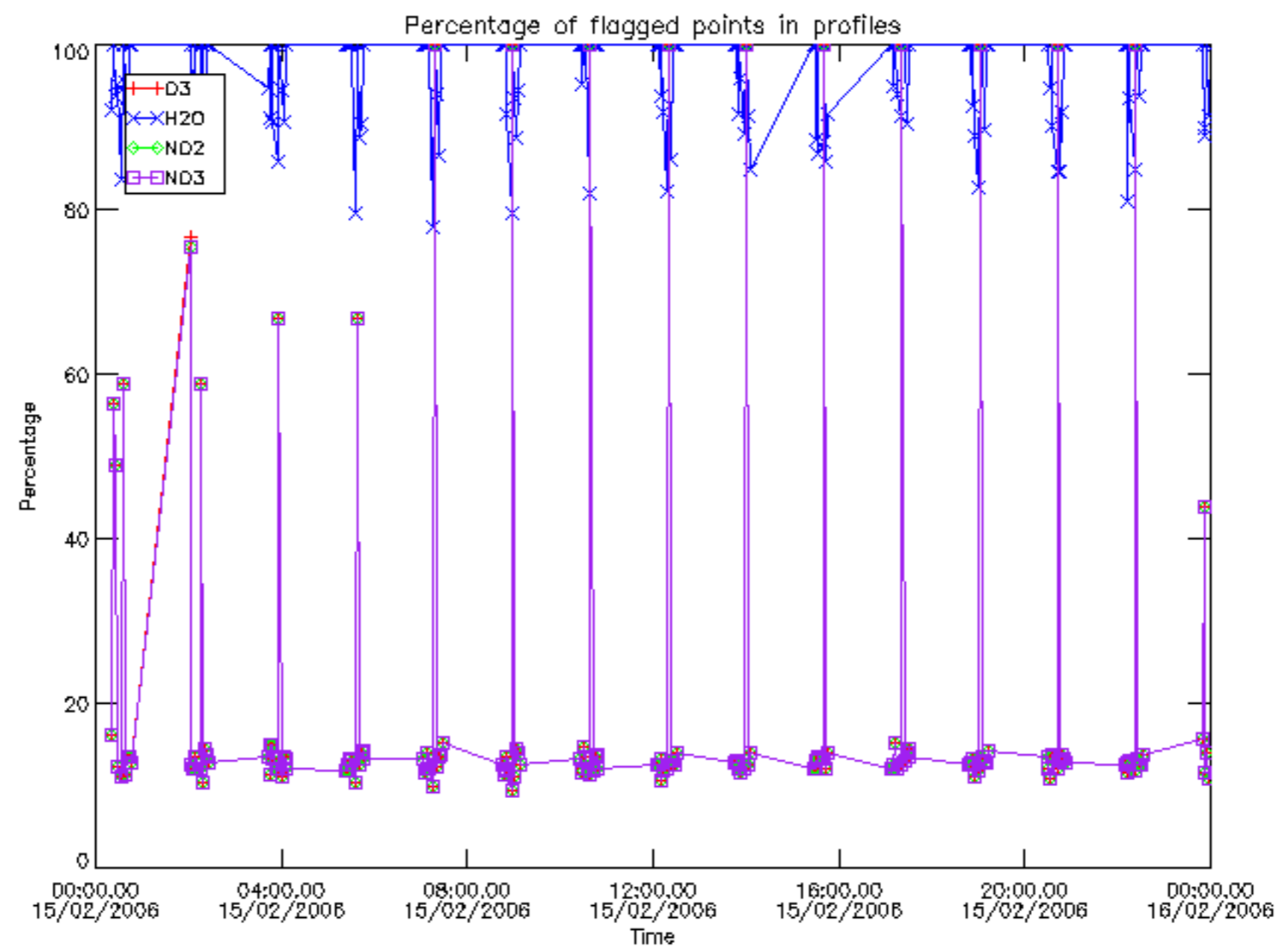




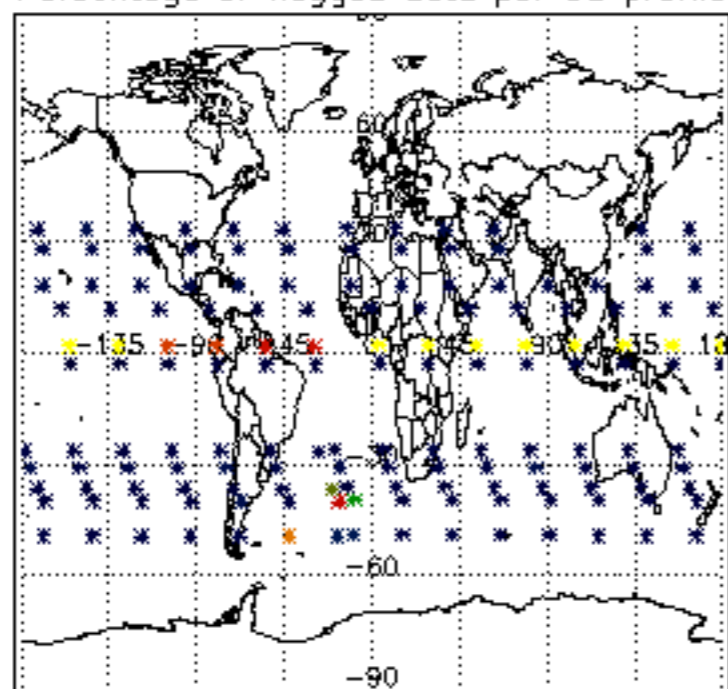




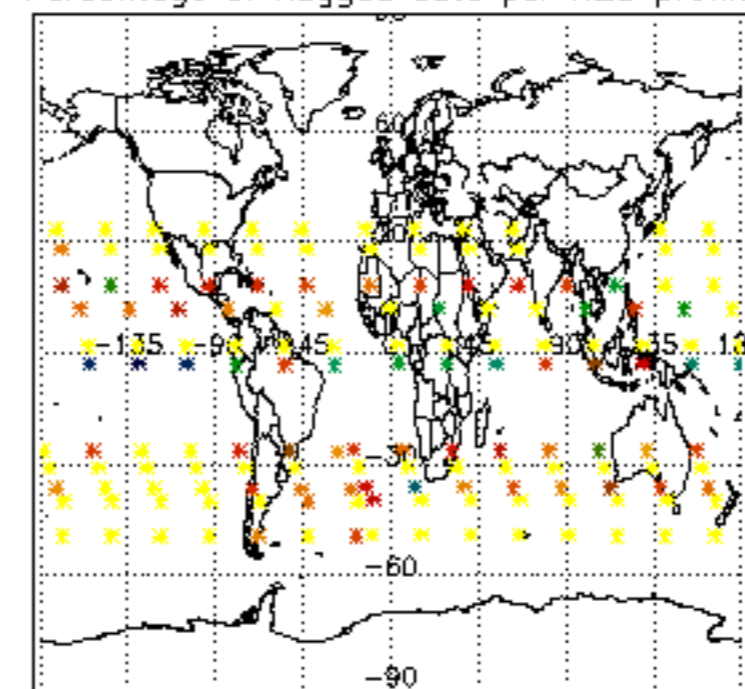




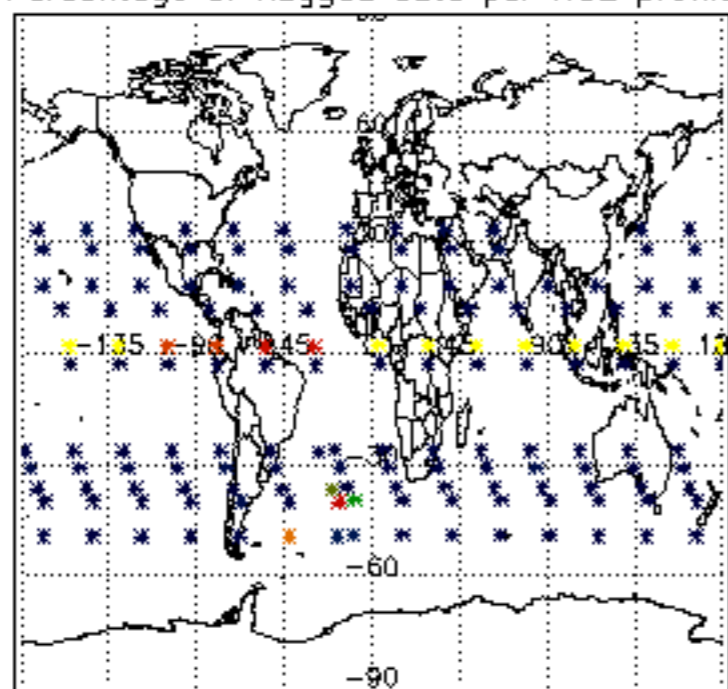
Percentage of flagged data per D3 profile



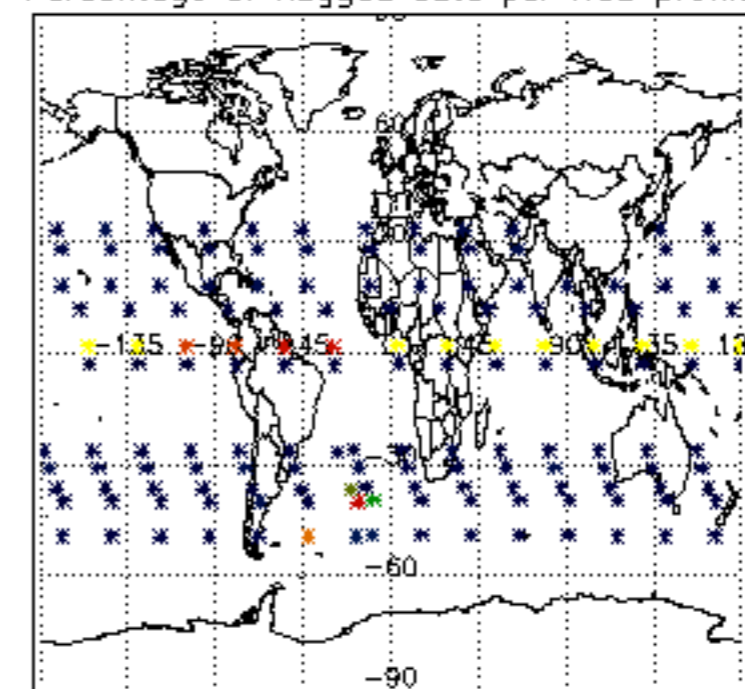
Percentage of flagged data per H2O profile

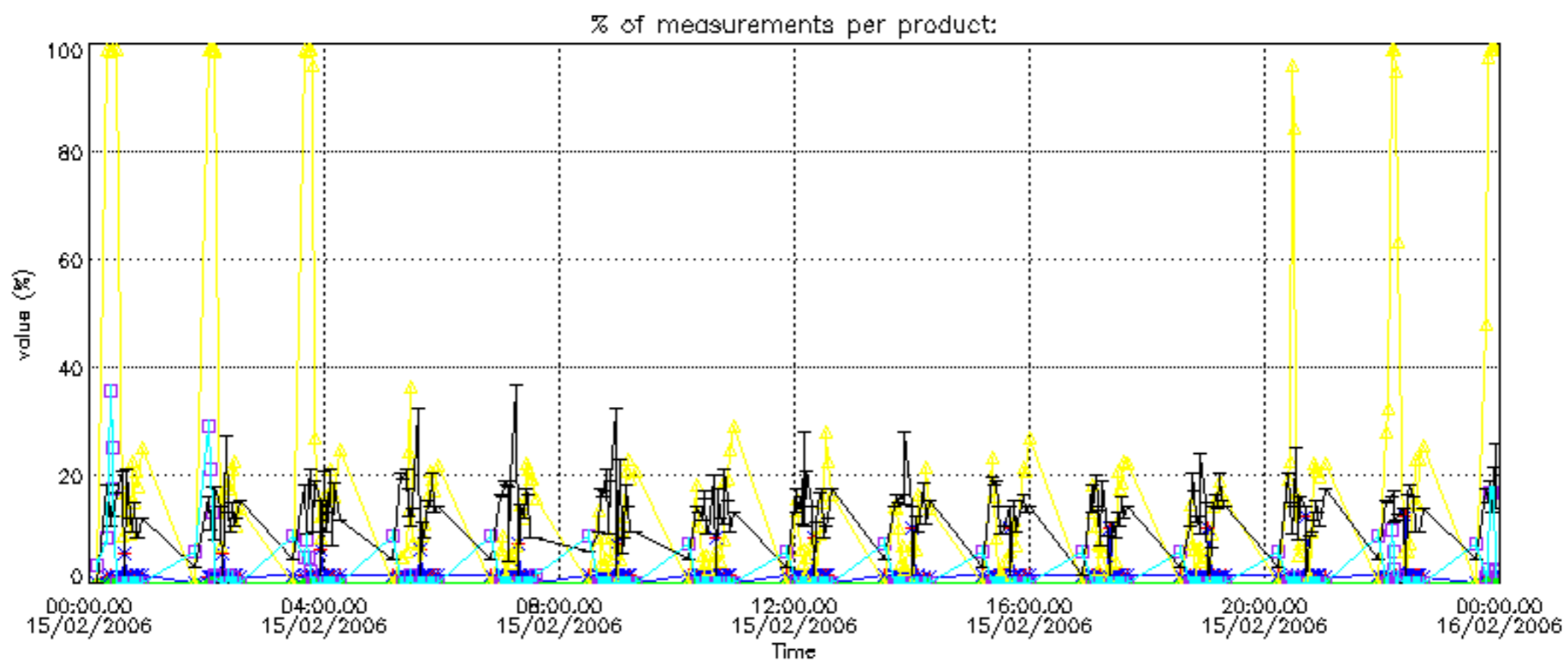


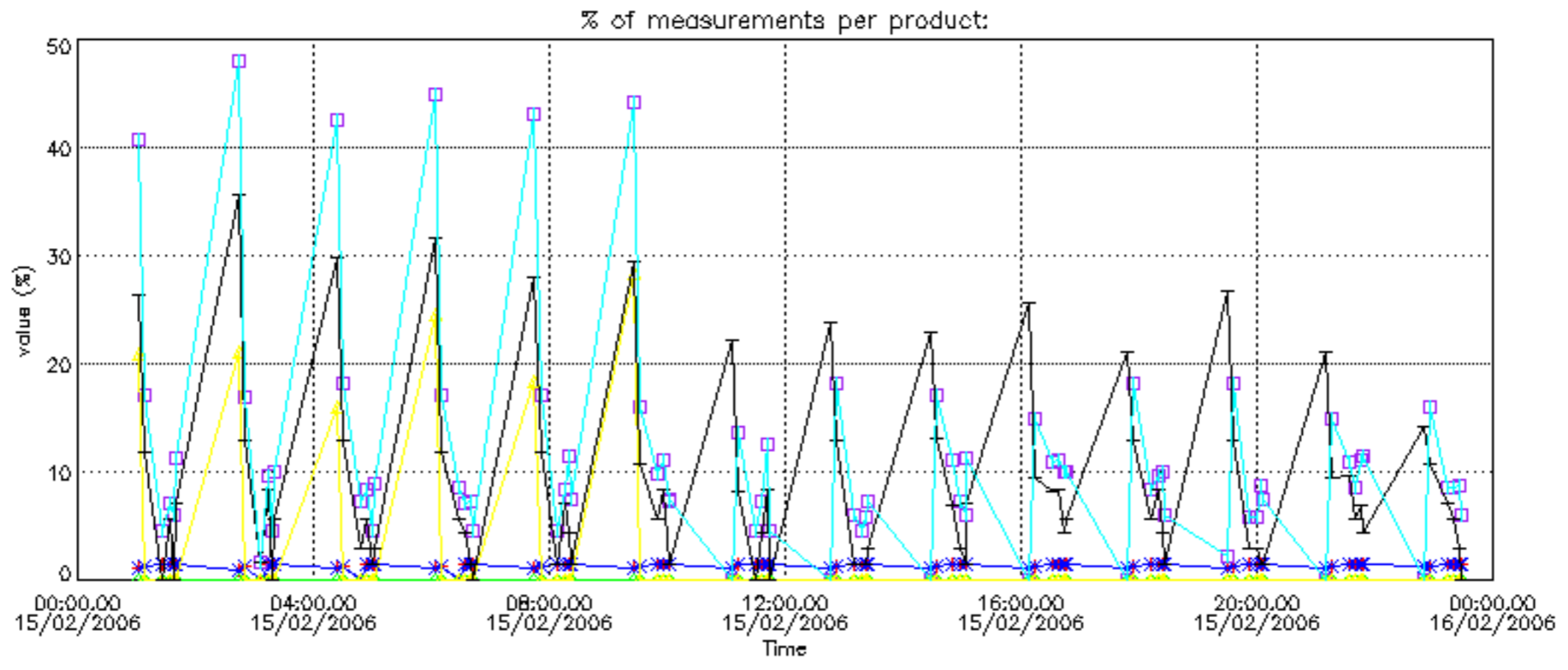
Percentage of flagged data per NO2 profile



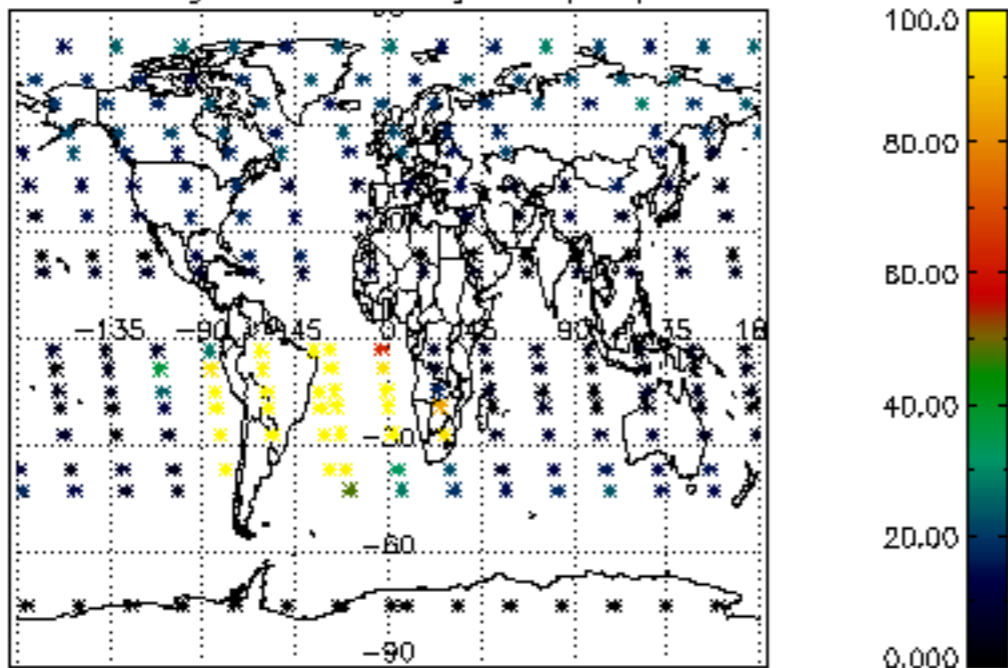
Percentage of flagged data per NO3 profile



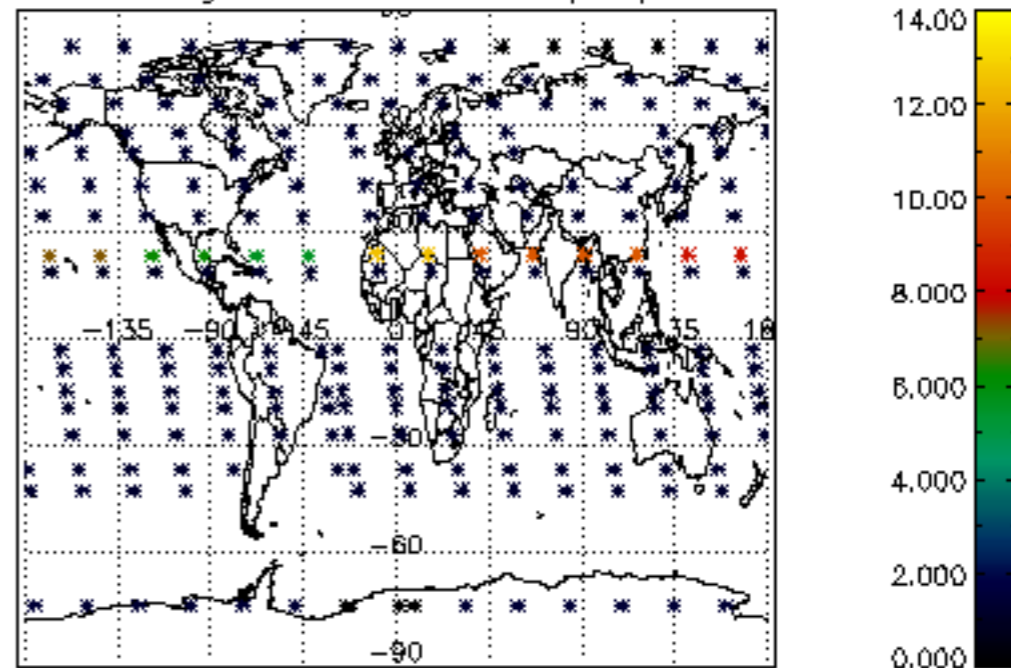




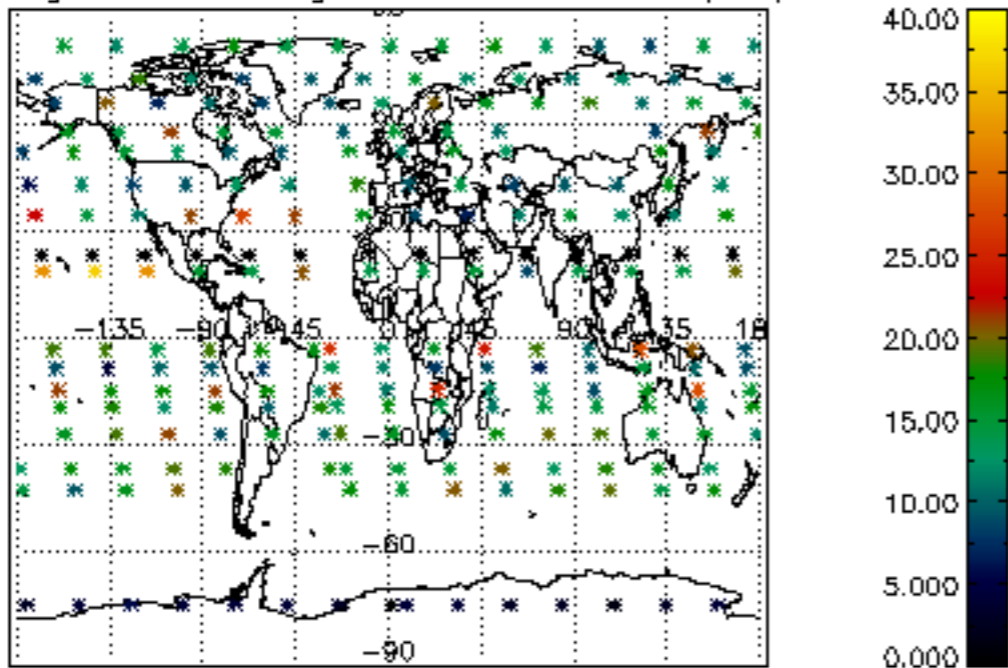
Percentage of cosmic ray hits per profile



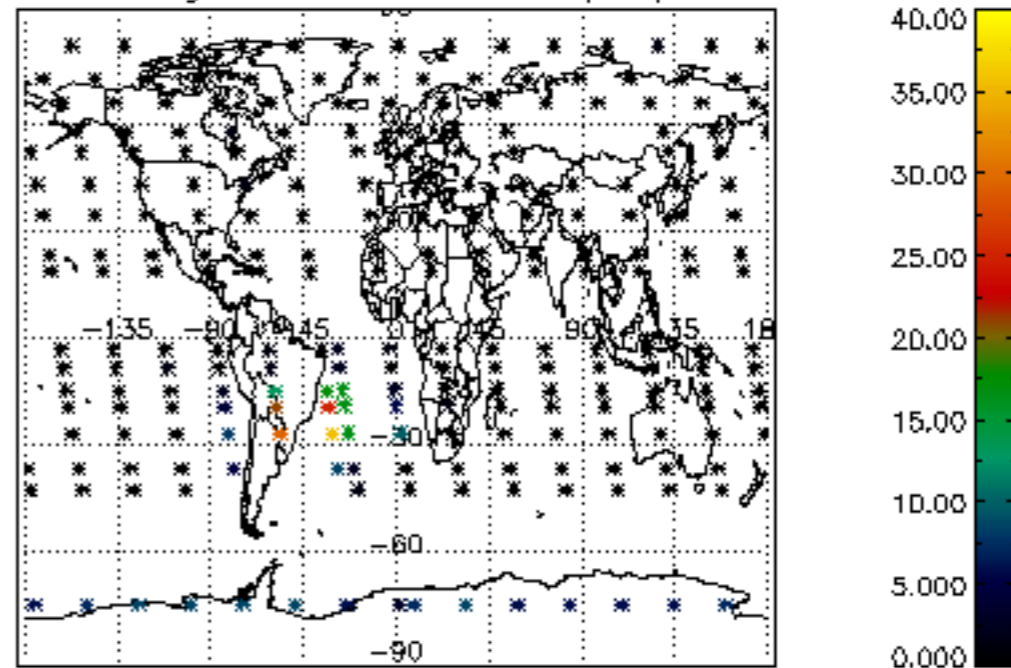
Percentage of datation errors per profile



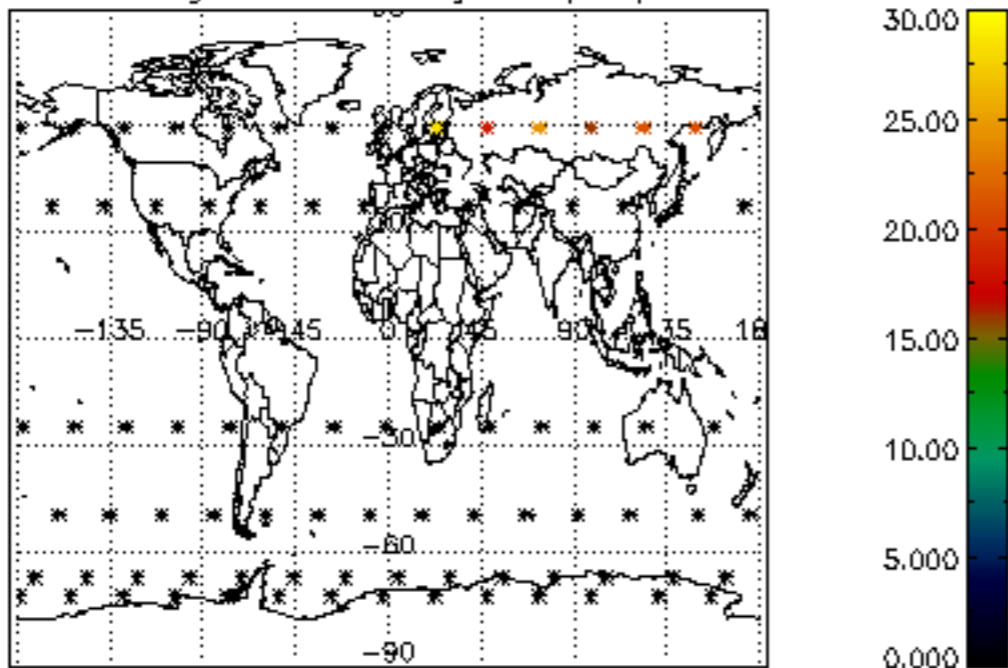
Percentage of star falling outside central band per profile



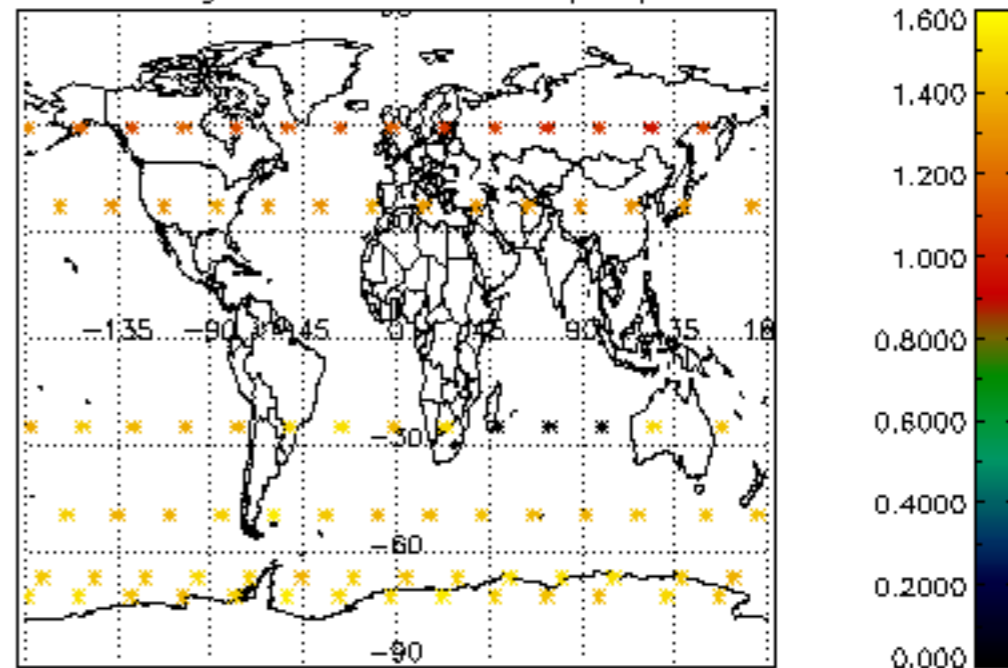
Percentage of saturation errors per profile



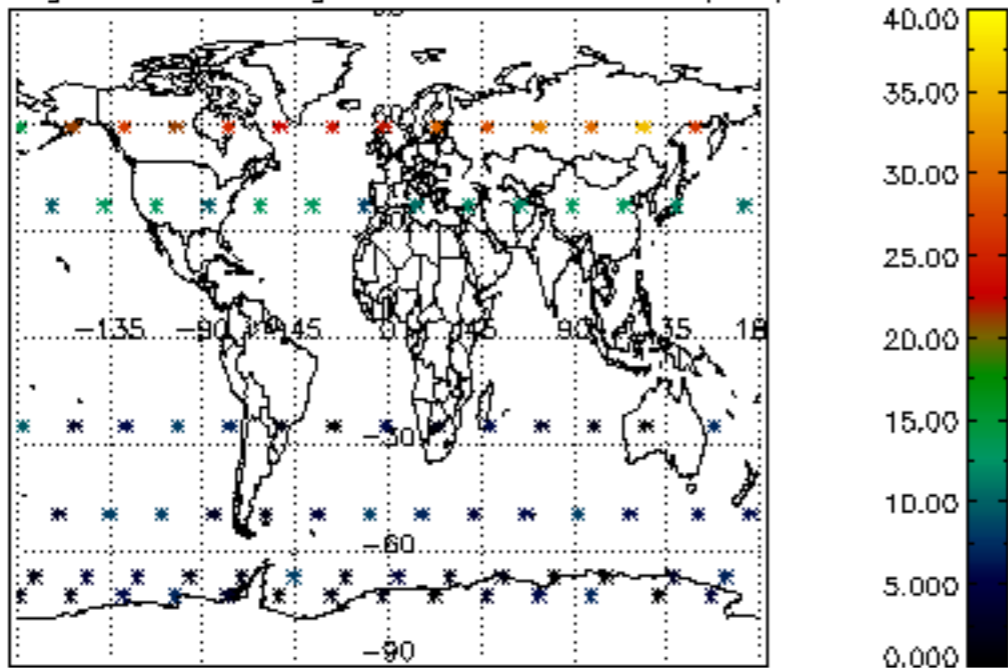
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

