

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 14:08:10
Data source version	GOMOS/6.01
Start time of products	14-12-2007 (14DEC2007 00:00:00)
Stop time of products	15-12-2007 (15DEC2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	379
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

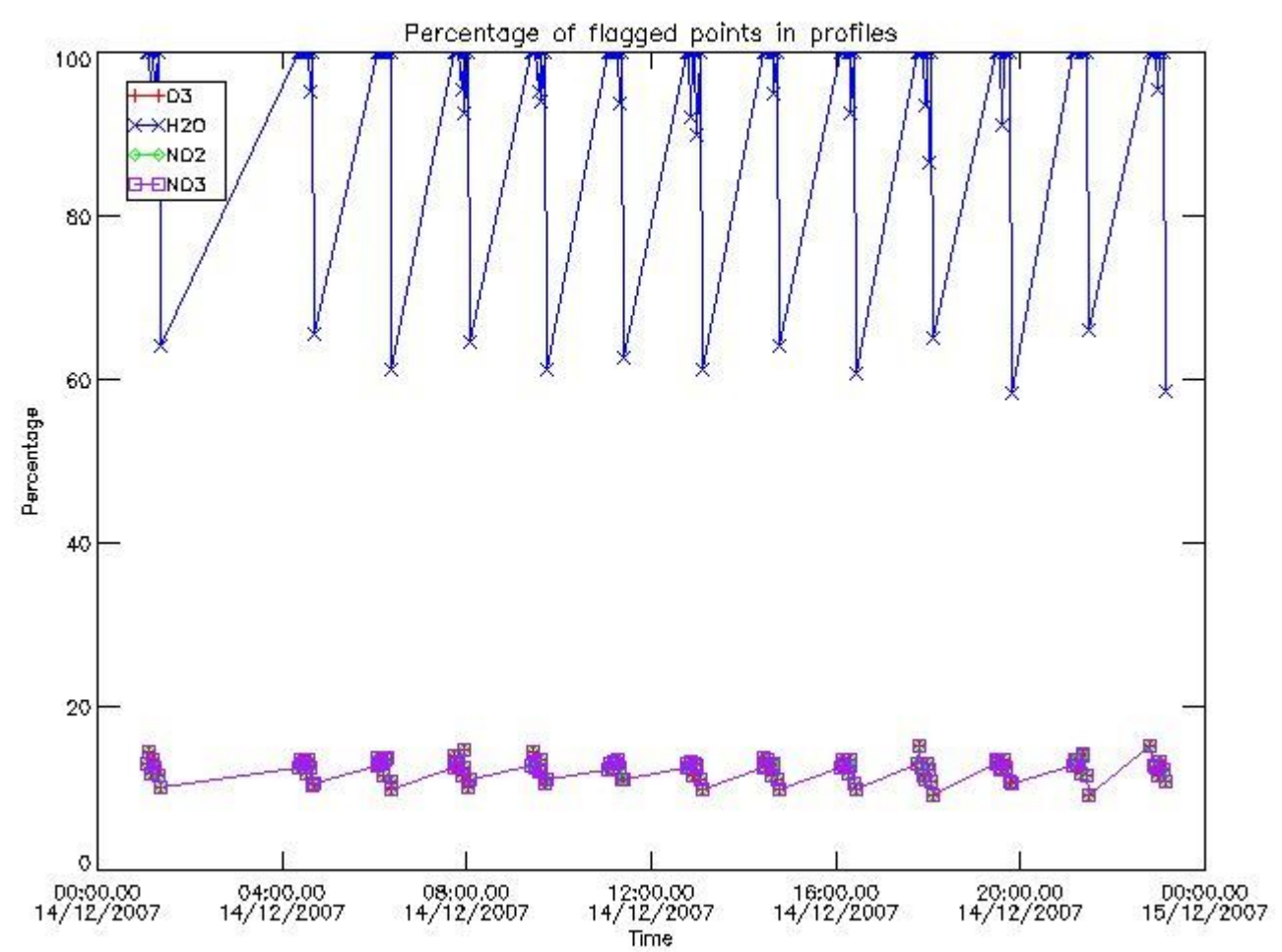
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20071214_000216_000000502064_00145_30259_8511.N1	14-DEC-2007 00:02:16	Twilight	49.500	13	87Alp Tau	0.86700	3800.0	99	30259	No
2	GOM_NL__2PRFIN20071214_000422_000000362064_00145_30259_8512.N1	14-DEC-2007 00:04:22	Bright	35.500	146	25Eta Tau	2.8730	15200.	71	30259	No
3	GOM_NL__2PRFIN20071214_000634_000000372064_00145_30259_8513.N1	14-DEC-2007 00:06:34	Bright	37.000	150	44Zet Per	2.8900	28000.	74	30259	No
4	GOM_NL__2PRFIN20071214_000852_000000362064_00145_30259_8514.N1	14-DEC-2007 00:08:52	Bright	36.000	149	45Eps Per	2.8880	30000.	72	30259	No
5	GOM_NL__2PRFIN20071214_001103_000000342064_00145_30259_8515.N1	14-DEC-2007 00:11:03	Bright	33.500	175	39Del Per	3.0100	19400.	67	30259	No
6	GOM_NL__2PRFIN20071214_001245_000000342064_00145_30259_8516.N1	14-DEC-2007 00:12:45	Bright	34.000	160	23Gam Per	2.9300	4700.0	68	30259	No
7	GOM_NL__2PRFIN20071214_002245_000000362064_00145_30259_8517.N1	14-DEC-2007 00:22:45	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	30259	No
8	GOM_NL__2PRFIN20071214_002728_000000372064_00145_30259_8518.N1	14-DEC-2007 00:27:28	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	30259	No
9	GOM_NL__2PRFIN20071214_003213_000000412064_00145_30259_8519.N1	14-DEC-2007 00:32:13	Bright	40.500	32	77Eps UMa	1.7630	11000.	81	30259	No
10	GOM_NL__2PRFIN20071214_003442_000000392064_00145_30259_8520.N1	14-DEC-2007 00:34:42	Bright	39.000	39	85Eta UMa	1.8540	24000.	78	30259	No
11	GOM_NL__2PRFIN20071214_003757_000000352064_00145_30259_8521.N1	14-DEC-2007 00:37:57	Bright	34.500	180	27Gam Boo	3.0400	8000.0	69	30259	No
12	GOM_NL__2PRFIN20071214_004108_000000362064_00145_30259_8522.N1	14-DEC-2007 00:41:08	Bright	35.500	83		2.3780	11000.	71	30259	No
13	GOM_NL__2PRFIN20071214_004422_000000402064_00145_30259_8523.N1	14-DEC-2007 00:44:22	Bright	39.500	111	8Eta Boo	2.6800	6000.0	79	30259	No
14	GOM_NL__2PRFIN20071214_005405_000000492064_00145_30259_8524.N1	14-DEC-2007 00:54:05	Twilight	49.000	15	67Alp Vir	0.97600	28000.	98	30259	No
15	GOM_NL__2PRFIN20071214_005734_000000452064_00145_30259_8525.N1	14-DEC-2007 00:57:34	Twilight	45.000	169	46Gam Hya	2.9910	4700.0	90	30259	No
16	GOM_NL__2PRFIN20071214_005924_000000412064_00145_30259_8526.N1	14-DEC-2007 00:59:24	Twilight	41.000	54	5The Cen	2.0550	4500.0	82	30259	No
17	GOM_NL__2PRFIN20071214_010458_000000402064_00145_30259_8527.N1	14-DEC-2007 01:04:58	Dark	39.500	64	Gam Cen	2.2000	10600.	79	30259	No
18	GOM_NL__2PRFIN20071214_010655_000000392064_00146_30260_8513.N1	14-DEC-2007 01:06:55	Dark	38.500	20	Bet Cru	1.2530	30000.	77	30260	No
19	GOM_NL__2PRFIN20071214_011017_000000442064_00146_30260_8514.N1	14-DEC-2007 01:10:17	Dark	43.500	113	Mu Vel	2.6920	5000.0	87	30260	No
20	GOM_NL__2PRFIN20071214_011257_000000382064_00146_30260_8515.N1	14-DEC-2007 01:12:57	Dark	38.000	159	Ups Car	2.9200	7200.0	76	30260	No
21	GOM_NL__2PRFIN20071214_011414_000000412064_00146_30260_8516.N1	14-DEC-2007 01:14:14	Dark	41.000	71	Iot Car	2.2460	7700.0	82	30260	No
22	GOM_NL__2PRFIN20071214_011850_000000492064_00146_30260_8517.N1	14-DEC-2007 01:18:50	Dark	48.500	34	Gam2Vel	1.7930	23000.	97	30260	No
23	GOM_NL__2PRFIN20071214_012109_000000512064_00146_30260_8518.N1	14-DEC-2007 01:21:09	Dark	50.500	2	Alp Car	-0.73600	7000.0	101	30260	No
24	GOM_NL__2PRFIN20071214_012715_000000442064_00146_30260_8519.N1	14-DEC-2007 01:27:15	Straylight	44.000	108	Alp Col	2.6520	15200.	88	30260	No
25	GOM_NL__2PRFIN20071214_013219_000000472064_00146_30260_8520.N1	14-DEC-2007 01:32:19	Straylight	47.000	101	11Alp Lep	2.5820	7000.0	94	30260	No
26	GOM_NL__2PRFIN20071214_013528_000000512064_00146_30260_8521.N1	14-DEC-2007 01:35:28	Straylight	51.000	7	19Bet Ori	0.10000	14000.	102	30260	No
27	GOM_NL__2PRFIN20071214_014252_000000502064_00146_30260_8522.N1	14-DEC-2007 01:42:52	Twilight	50.000	13	87Alp Tau	0.86700	3800.0	100	30260	No
28	GOM_NL__2PRFIN20071214_014458_000000372064_00146_30260_8523.N1	14-DEC-2007 01:44:58	Bright	36.500	146	25Eta Tau	2.8730	15200.	73	30260	No
29	GOM_NL__2PRFIN20071214_014709_000000352064_00146_30260_8524.N1	14-DEC-2007 01:47:09	Bright	35.000	150	44Zet Per	2.8900	28000.	70	30260	No
30	GOM_NL__2PRFIN20071214_014928_000000352064_00146_30260_8525.N1	14-DEC-2007 01:49:28	Bright	35.000	149	45Eps Per	2.8880	30000.	70	30260	No
31	GOM_NL__2PRFIN20071214_015139_000000342064_00146_30260_8526.N1	14-DEC-2007 01:51:39	Bright	34.000	175	39Del Per	3.0100	19400.	68	30260	No
32	GOM_NL__2PRFIN20071214_015321_000000362064_00146_30260_8527.N1	14-DEC-2007 01:53:21	Bright	36.000	160	23Gam Per	2.9300	4700.0	72	30260	No
33	GOM_NL__2PRFIN20071214_020321_000000332064_00146_30260_8528.N1	14-DEC-2007 02:03:21	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	30260	No
34	GOM_NL__2PRFIN20071214_020804_000000382064_00146_30260_8529.N1	14-DEC-2007 02:08:04	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	30260	No
35	GOM_NL__2PRFIN20071214_021249_000000422064_00146_30260_8530.N1	14-DEC-2007 02:12:49	Bright	42.000	32	77Eps UMa	1.7630	11000.	84	30260	No
36	GOM_NL__2PRFIN20071214_021518_000000392064_00146_30260_8531.N1	14-DEC-2007 02:15:18	Bright	39.000	39	85Eta UMa	1.8540	24000.	78	30260	No
37	GOM_NL__2PRFIN20071214_021834_000000352064_00146_30260_8532.N1	14-DEC-2007 02:18:34	Bright	35.000	180	27Gam Boo	3.0400	8000.0	70	30260	No
38	GOM_NL__2PRFIN20071214_022144_000000352064_00146_30260_8533.N1	14-DEC-2007 02:21:44	Bright	34.500	83		2.3780	11000.	69	30260	No
39	GOM_NL__2PRFIN20071214_022459_000000402064_00146_30260_8534.N1	14-DEC-2007 02:24:59	Bright	39.500	111	8Eta Boo	2.6800	6000.0	79	30260	No
40	GOM_NL__2PRFIN20071214_023441_000000522064_00146_30260_8535.N1	14-DEC-2007 02:34:41	Twilight	52.000	15	67Alp Vir	0.97600	28000.	104	30260	No
41	GOM_NL__2PRFIN20071214_024001_000000422064_00146_30260_8536.N1	14-DEC-2007 02:40:01	Twilight	42.000	54	5The Cen	2.0550	4500.0	84	30260	No
42	GOM_NL__2PRFIN20071214_034840_000000382064_00147_30261_8527.N1	14-DEC-2007 03:48:40	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	30261	No

338	GOM_NL__2PRFIN20071214_212610_000000442064_00158_30272_8729.N1	14-DEC-2007 21:26:10	Dark	44.000	34	Gam2Vel	1.7930	23000.	88	30272	No
339	GOM_NL__2PRFIN20071214_212825_000000552064_00158_30272_8730.N1	14-DEC-2007 21:28:25	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	30272	No
340	GOM_NL__2PRFIN20071214_213430_000000402064_00158_30272_8731.N1	14-DEC-2007 21:34:30	Straylight	40.000	108	Alp Col	2.6520	15200.	80	30272	No
341	GOM_NL__2PRFIN20071214_213932_000000452064_00158_30272_8732.N1	14-DEC-2007 21:39:32	Straylight	44.500	101	11Alp Lep	2.5820	7000.0	89	30272	No
342	GOM_NL__2PRFIN20071214_214239_000000562064_00158_30272_8733.N1	14-DEC-2007 21:42:39	Straylight	55.500	7	19Bet Ori	0.10000	14000.	111	30272	No
343	GOM_NL__2PRFIN20071214_214721_000000262064_00158_30272_8734.N1	14-DEC-2007 21:47:21	Twi_and_stray	26.000	27	24Gam Ori	1.6360	26000.	52	30272	No
344	GOM_NL__2PRFIN20071214_215002_000000542064_00158_30272_8735.N1	14-DEC-2007 21:50:02	Twi_and_stray	54.000	13	87Alp Tau	0.86700	3800.0	108	30272	No
345	GOM_NL__2PRFIN20071214_215210_000000362064_00158_30272_8736.N1	14-DEC-2007 21:52:10	Bright	36.000	146	25Eta Tau	2.8730	15200.	72	30272	No
346	GOM_NL__2PRFIN20071214_215421_000000362064_00158_30272_8737.N1	14-DEC-2007 21:54:21	Bright	36.000	150	44Zet Per	2.8900	28000.	72	30272	No
347	GOM_NL__2PRFIN20071214_215639_000000352064_00158_30272_8738.N1	14-DEC-2007 21:56:39	Bright	35.000	149	45Eps Per	2.8880	30000.	70	30272	No
348	GOM_NL__2PRFIN20071214_215850_000000352064_00158_30272_8739.N1	14-DEC-2007 21:58:50	Bright	35.000	175	39Del Per	3.0100	19400.	70	30272	No
349	GOM_NL__2PRFIN20071214_220033_000000342064_00158_30272_8740.N1	14-DEC-2007 22:00:33	Bright	33.500	160	23Gam Per	2.9300	4700.0	67	30272	No
350	GOM_NL__2PRFIN20071214_221032_000000362064_00158_30272_8741.N1	14-DEC-2007 22:10:32	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	30272	No
351	GOM_NL__2PRFIN20071214_221515_000000382064_00158_30272_8742.N1	14-DEC-2007 22:15:15	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	30272	No
352	GOM_NL__2PRFIN20071214_221957_000000422064_00158_30272_8743.N1	14-DEC-2007 22:19:57	Bright	41.500	32	77Eps UMa	1.7630	11000.	83	30272	No
353	GOM_NL__2PRFIN20071214_222229_000000382064_00158_30272_8744.N1	14-DEC-2007 22:22:29	Bright	38.000	39	85Eta UMa	1.8540	24000.	76	30272	No
354	GOM_NL__2PRFIN20071214_222546_000000542064_00158_30272_8745.N1	14-DEC-2007 22:25:46	Bright	54.000	180	27Gam Boo	3.0400	8000.0	108	30272	No
355	GOM_NL__2PRFIN20071214_222857_000000352064_00158_30272_8746.N1	14-DEC-2007 22:28:57	Bright	35.000	83		2.3780	11000.	70	30272	No
356	GOM_NL__2PRFIN20071214_223213_000000402064_00158_30272_8747.N1	14-DEC-2007 22:32:13	Bright	40.000	111	8Eta Boo	2.6800	6000.0	80	30272	No
357	GOM_NL__2PRFIN20071214_224201_000000522064_00158_30272_8748.N1	14-DEC-2007 22:42:01	Twi_and_stray	52.000	15	67Alp Vir	0.97600	28000.	104	30272	No
358	GOM_NL__2PRFIN20071214_224530_000000462064_00158_30272_8749.N1	14-DEC-2007 22:45:30	Twilight	46.000	169	46Gam Hya	2.9910	4700.0	92	30272	No
359	GOM_NL__2PRFIN20071214_224717_000000432064_00158_30272_8750.N1	14-DEC-2007 22:47:17	Twilight	42.500	54	5The Cen	2.0550	4500.0	85	30272	No
360	GOM_NL__2PRFIN20071214_224846_000000402064_00158_30272_8751.N1	14-DEC-2007 22:48:46	Dark	40.000	123	1ot Cen	2.7500	10200.	80	30272	No
361	GOM_NL__2PRFIN20071214_225253_000000402064_00158_30272_8752.N1	14-DEC-2007 22:52:53	Dark	40.000	64	Gam Cen	2.2000	10600.	80	30272	No
362	GOM_NL__2PRFIN20071214_225448_000000412064_00159_30273_8735.N1	14-DEC-2007 22:54:48	Dark	40.500	20	Bet Cru	1.2530	30000.	81	30273	No
363	GOM_NL__2PRFIN20071214_225816_000000442064_00159_30273_8736.N1	14-DEC-2007 22:58:16	Dark	44.000	113	Mu Vel	2.6920	5000.0	88	30273	No
364	GOM_NL__2PRFIN20071214_230050_000000392064_00159_30273_8737.N1	14-DEC-2007 23:00:50	Dark	38.500	159	Ups Car	2.9200	7200.0	77	30273	No
365	GOM_NL__2PRFIN20071214_230209_000000402064_00159_30273_8738.N1	14-DEC-2007 23:02:09	Dark	40.000	71	1ot Car	2.2460	7700.0	80	30273	No
366	GOM_NL__2PRFIN20071214_230647_000000462064_00159_30273_8739.N1	14-DEC-2007 23:06:47	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	30273	No
367	GOM_NL__2PRFIN20071214_230902_000000482064_00159_30273_8740.N1	14-DEC-2007 23:09:02	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	30273	No
368	GOM_NL__2PRFIN20071214_231506_000000402064_00159_30273_8741.N1	14-DEC-2007 23:15:06	Straylight	39.500	108	Alp Col	2.6520	15200.	79	30273	No
369	GOM_NL__2PRFIN20071214_232008_000000442064_00159_30273_8742.N1	14-DEC-2007 23:20:08	Straylight	43.500	101	11Alp Lep	2.5820	7000.0	87	30273	No
370	GOM_NL__2PRFIN20071214_232315_000000492064_00159_30273_8743.N1	14-DEC-2007 23:23:15	Straylight	48.500	7	19Bet Ori	0.10000	14000.	97	30273	No
371	GOM_NL__2PRFIN20071214_232757_000000262064_00159_30273_8744.N1	14-DEC-2007 23:27:57	Twi_and_stray	26.000	27	24Gam Ori	1.6360	26000.	52	30273	No
372	GOM_NL__2PRFIN20071214_233038_000000512064_00159_30273_8745.N1	14-DEC-2007 23:30:38	Twi_and_stray	51.000	13	87Alp Tau	0.86700	3800.0	102	30273	No
373	GOM_NL__2PRFIN20071214_233246_000000362064_00159_30273_8746.N1	14-DEC-2007 23:32:46	Bright	36.000	146	25Eta Tau	2.8730	15200.	72	30273	No
374	GOM_NL__2PRFIN20071214_233456_000000372064_00159_30273_8747.N1	14-DEC-2007 23:34:56	Bright	36.500	150	44Zet Per	2.8900	28000.	73	30273	No
375	GOM_NL__2PRFIN20071214_233715_000000362064_00159_30273_8748.N1	14-DEC-2007 23:37:15	Bright	35.500	149	45Eps Per	2.8880	30000.	71	30273	No
376	GOM_NL__2PRFIN20071214_233926_000000352064_00159_30273_8749.N1	14-DEC-2007 23:39:26	Bright	34.500	175	39Del Per	3.0100	19400.	69	30273	No
377	GOM_NL__2PRFIN20071214_234109_000000362064_00159_30273_8750.N1	14-DEC-2007 23:41:09	Bright	35.500	160	23Gam Per	2.9300	4700.0	71	30273	No
378	GOM_NL__2PRFIN20071214_235108_000000362064_00159_30273_8751.N1	14-DEC-2007 23:51:08	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	30273	No
379	GOM_NL__2PRFIN20071214_235551_000000372064_00159_30273_8752.N1	14-DEC-2007 23:55:51	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	30273	No

3. Quality information per product

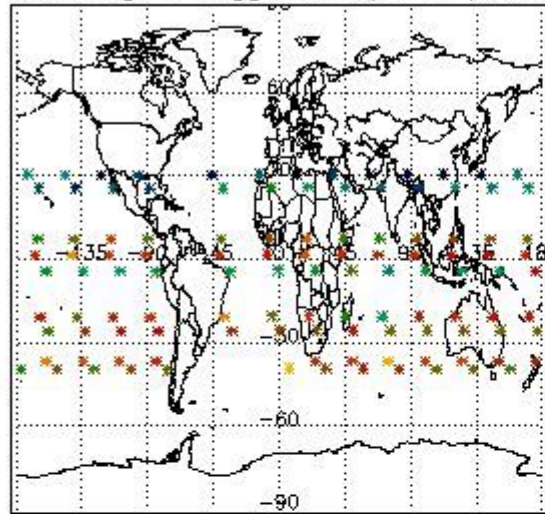
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

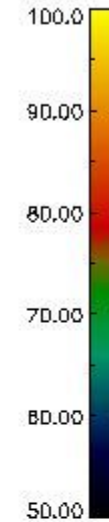
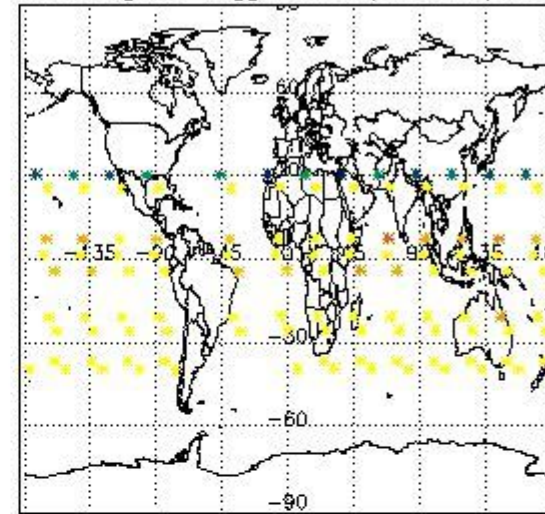


3.2 Plot quality information per product (world map)

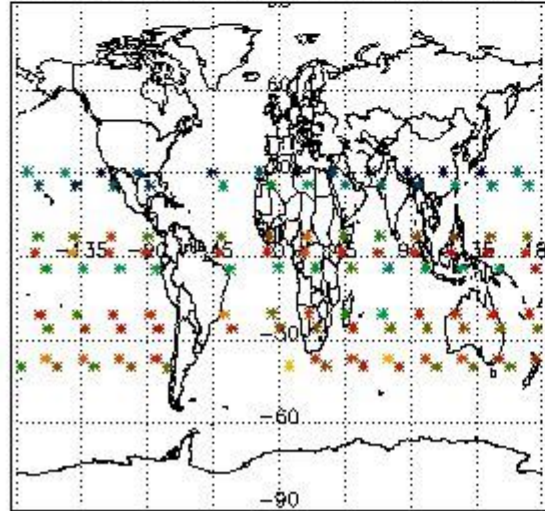
Percentage of flagged data per O3 profile



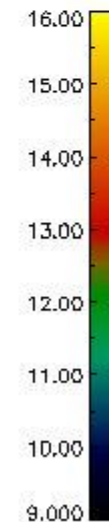
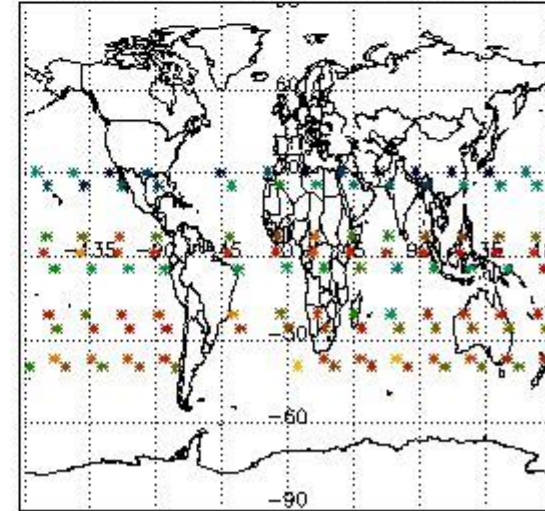
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

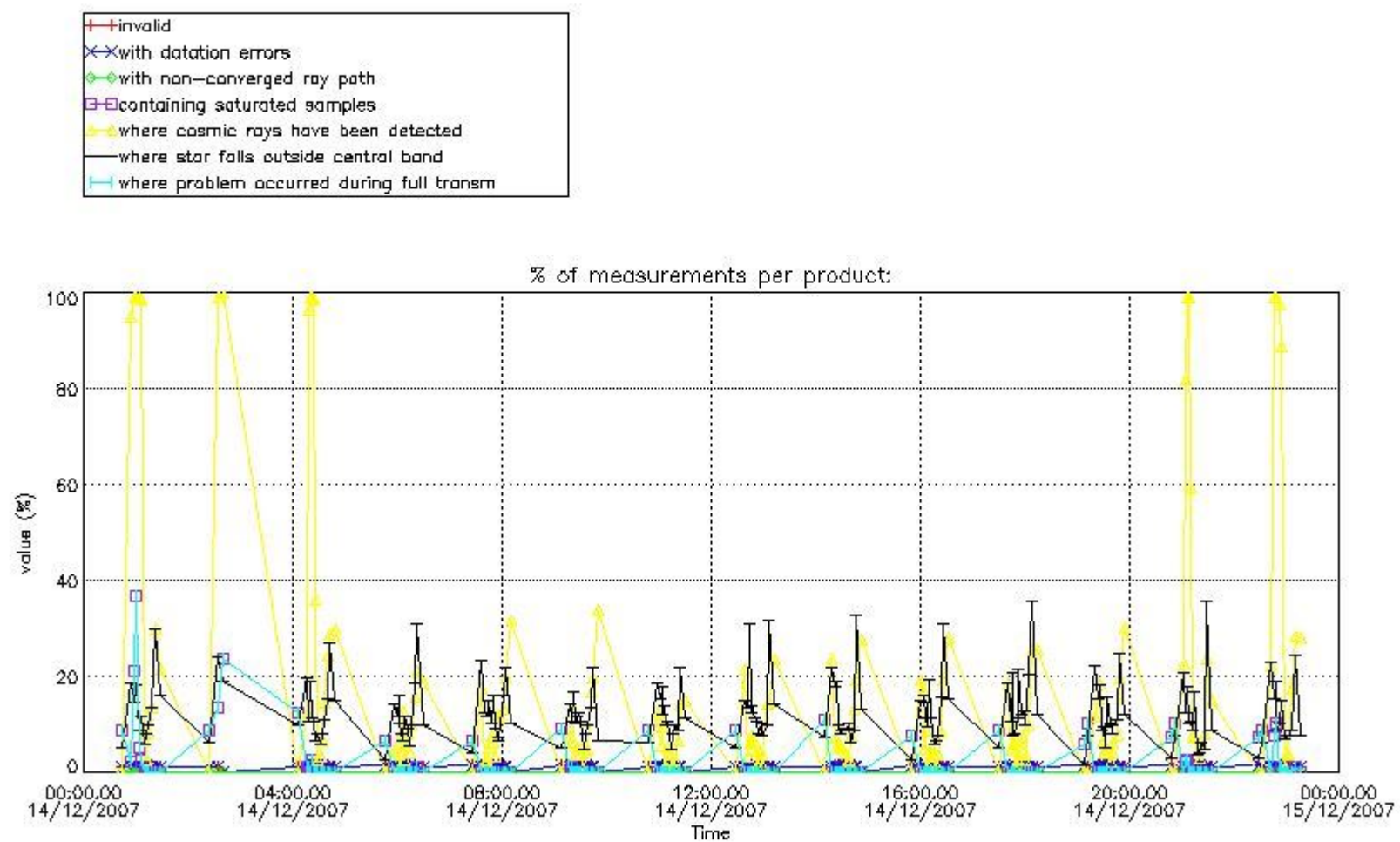


4. Level 1 quality information per product

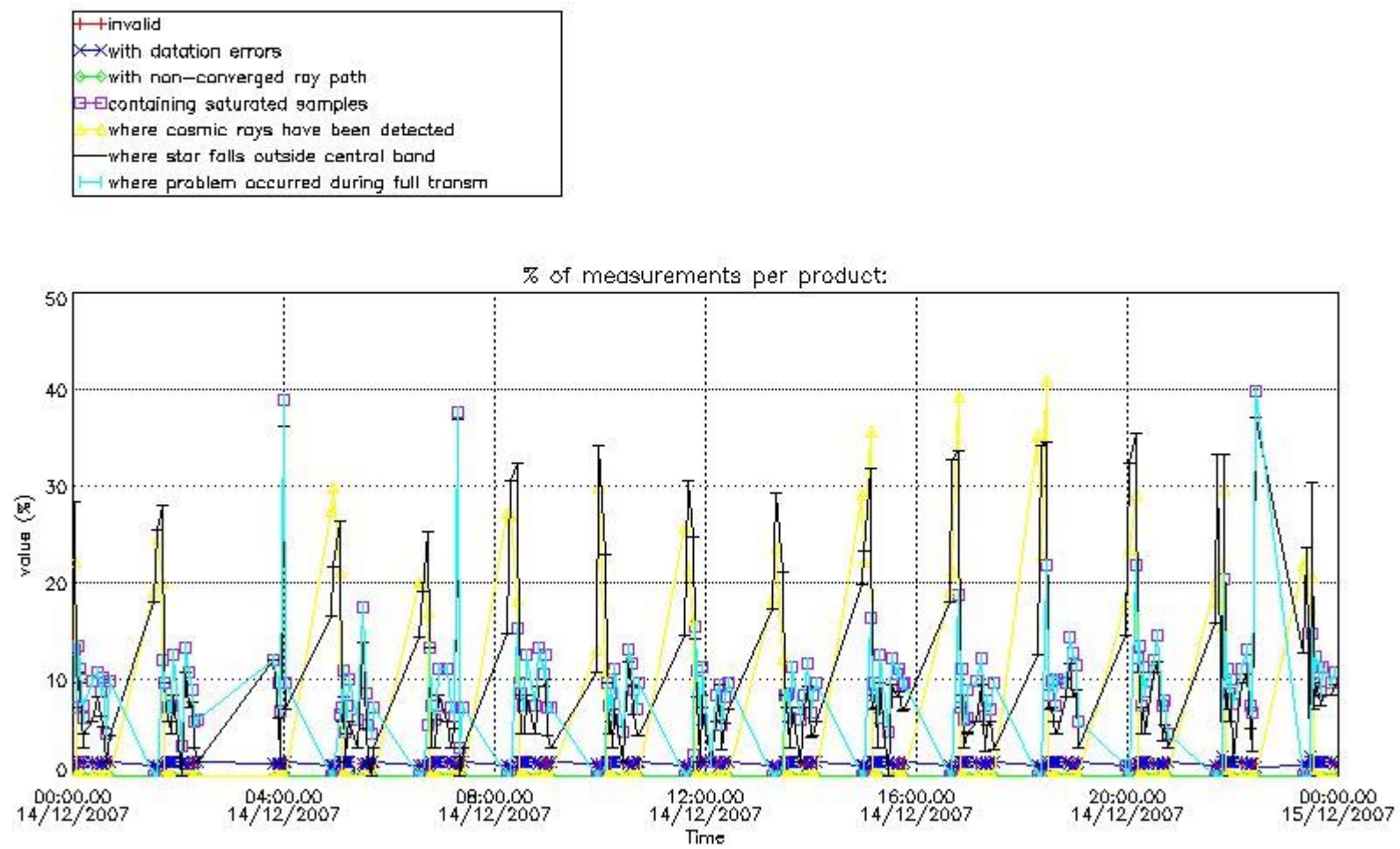
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



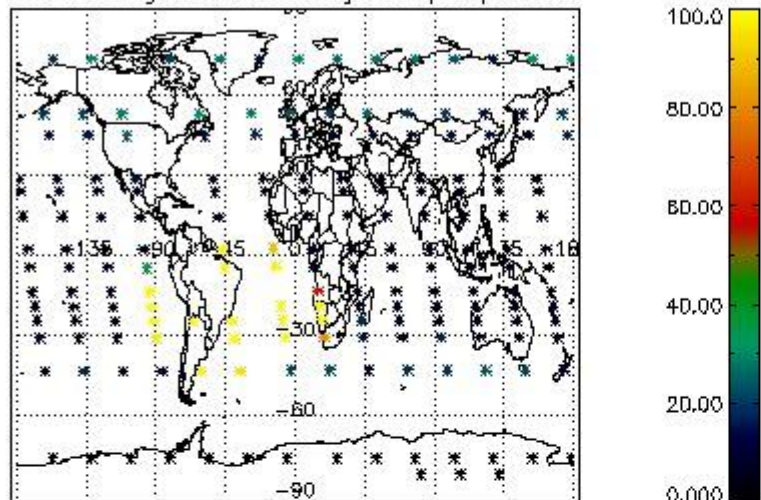
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



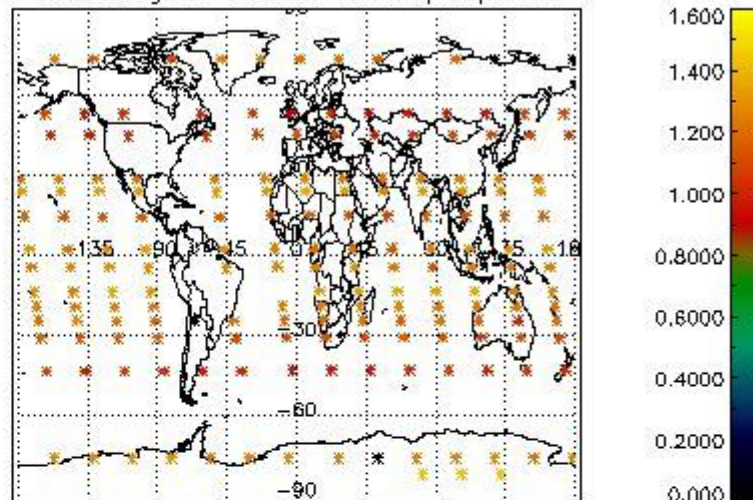
4.2 Plot quality information per product coming from level 1b processing (world map)

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

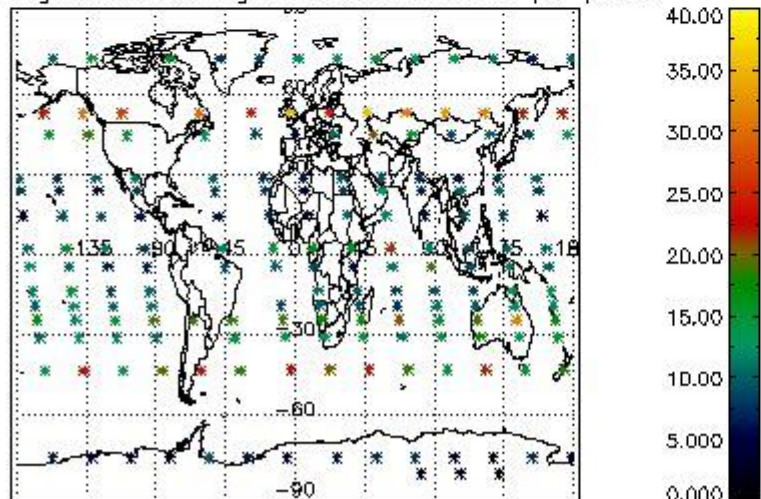
Percentage of cosmic ray hits per profile



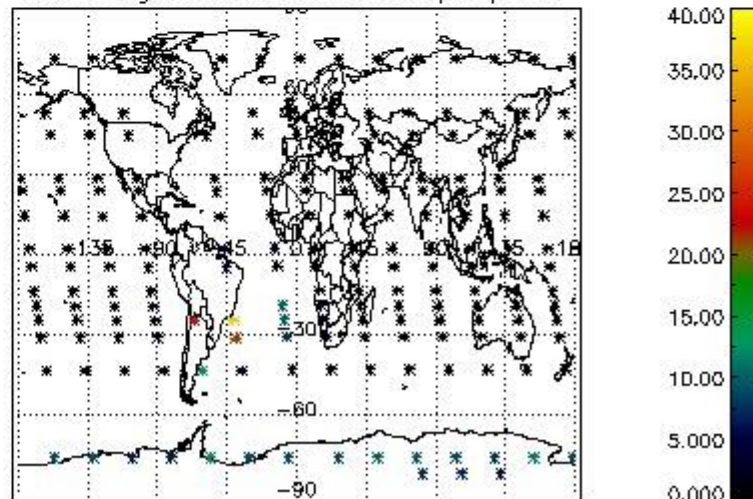
Percentage of datation errors per profile



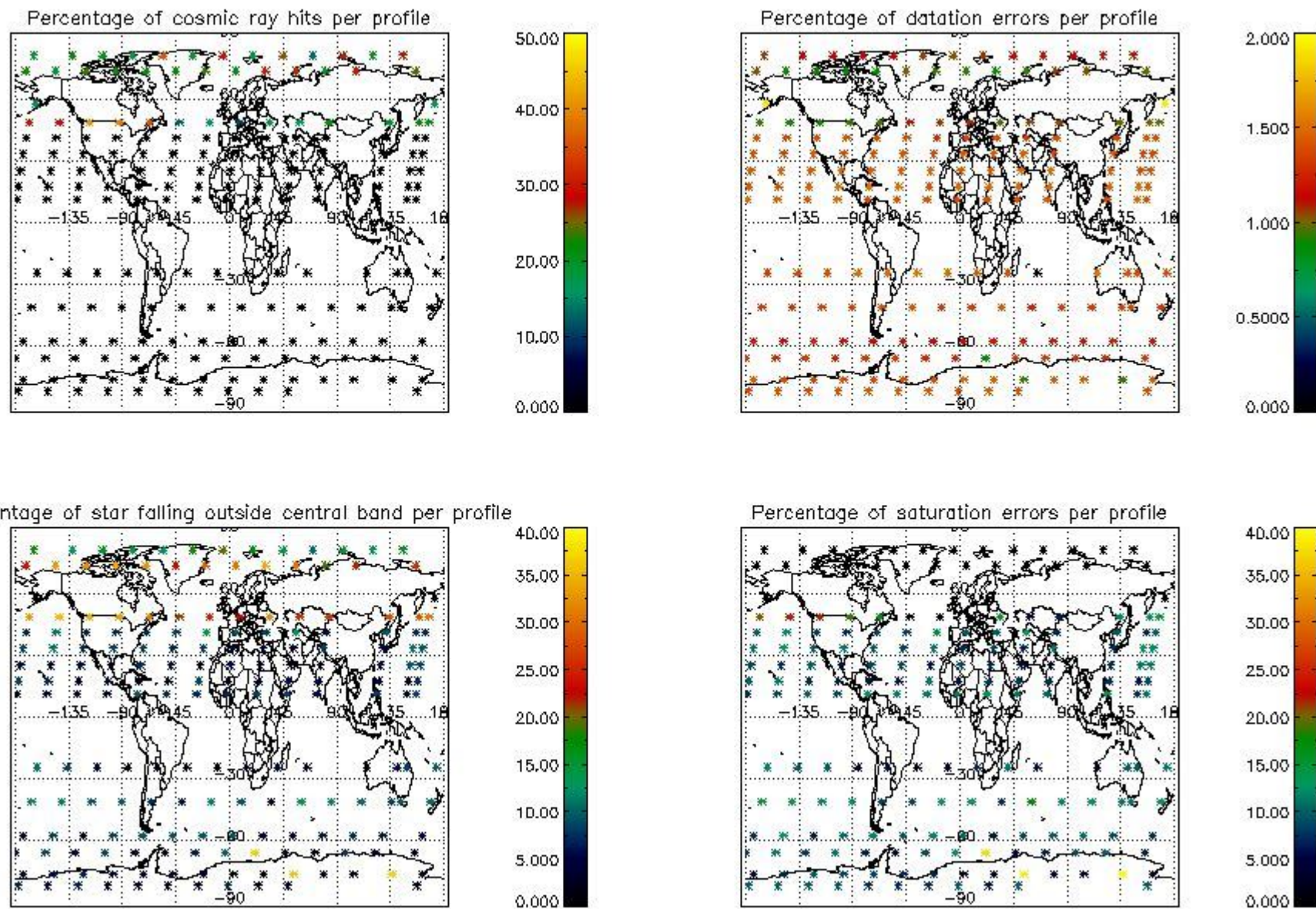
Percentage of star falling outside central band per profile



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

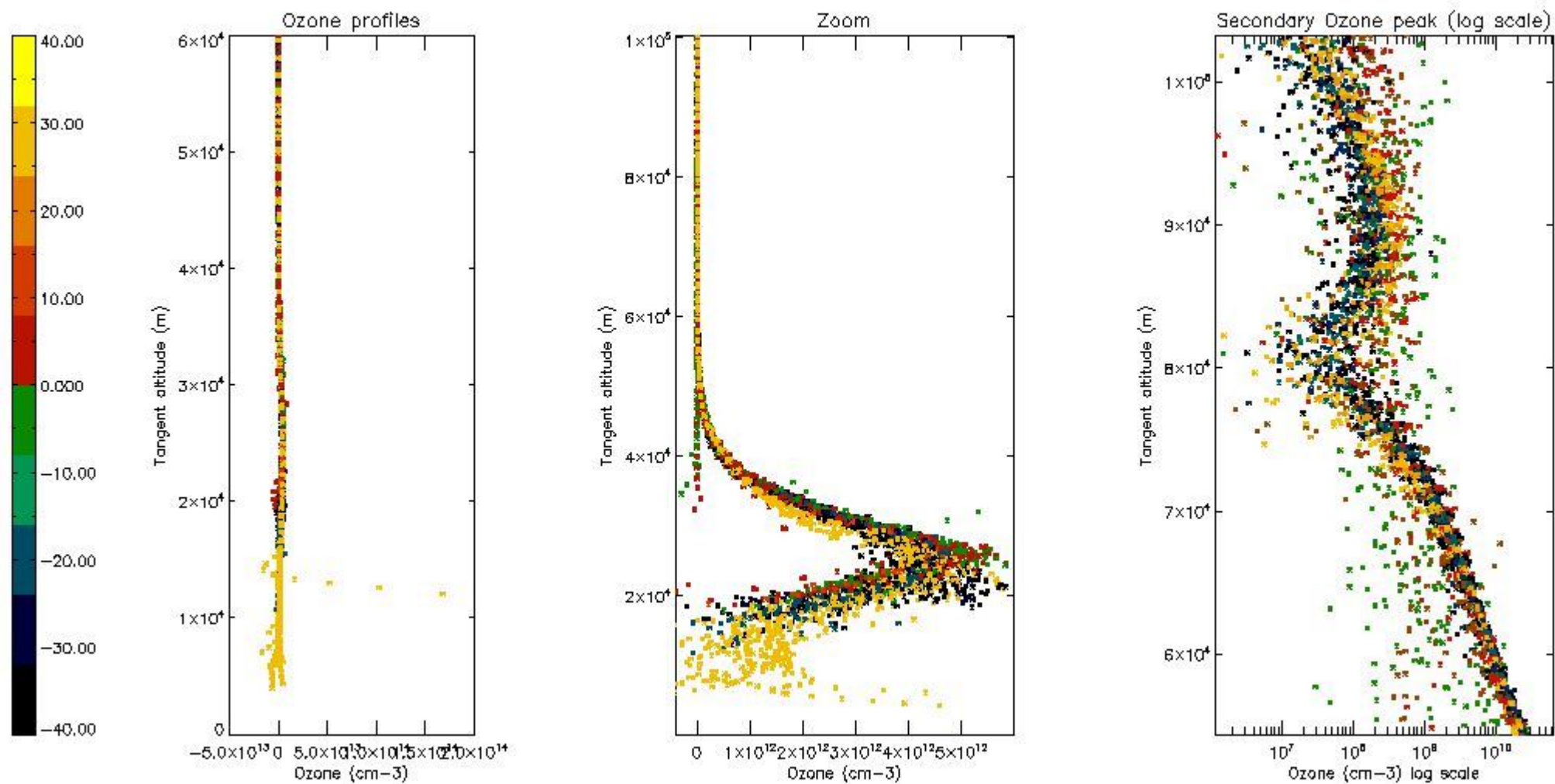
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	32
STD < 20	18

STD < 10	14
STD < 5	8

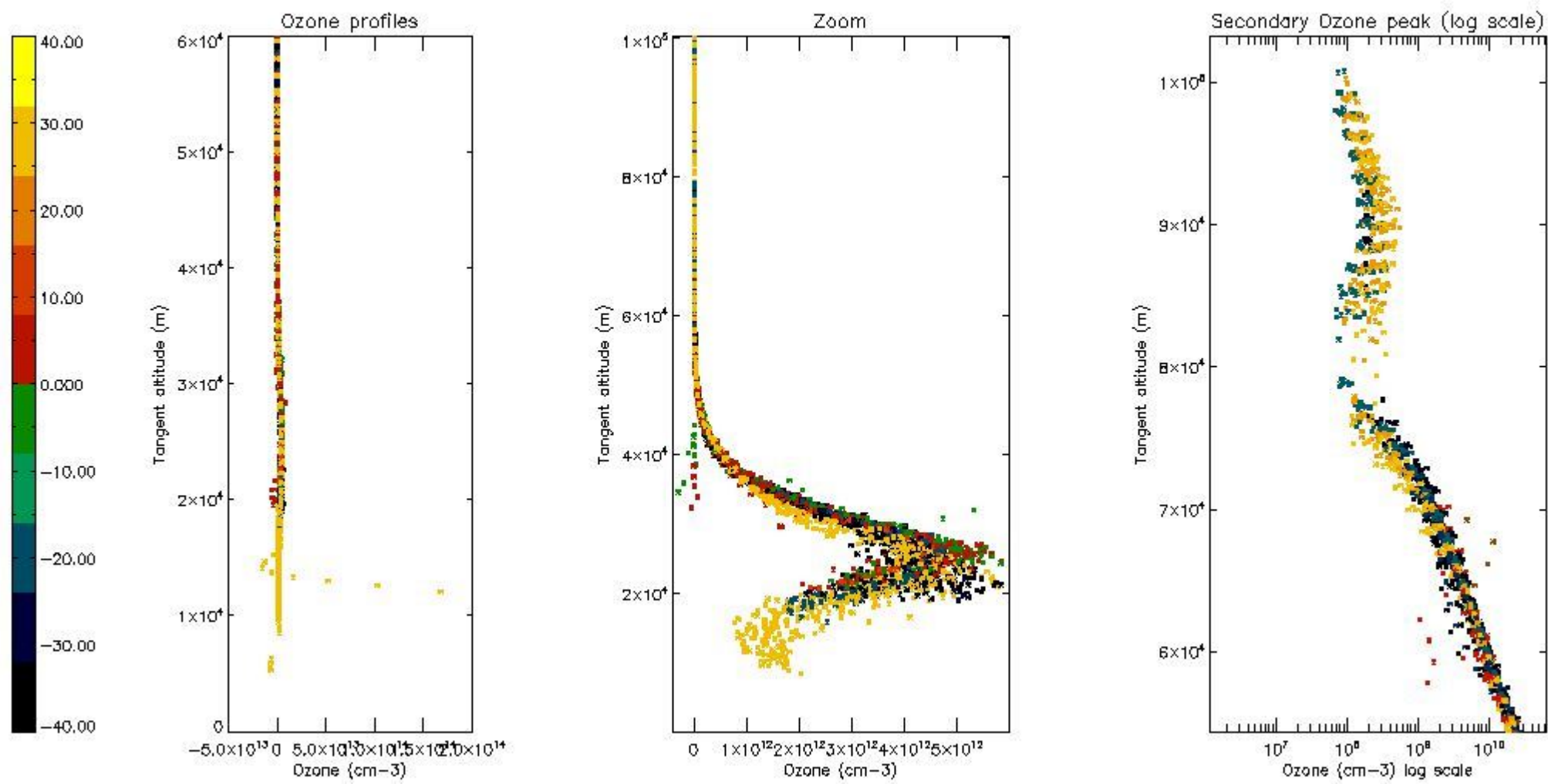
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



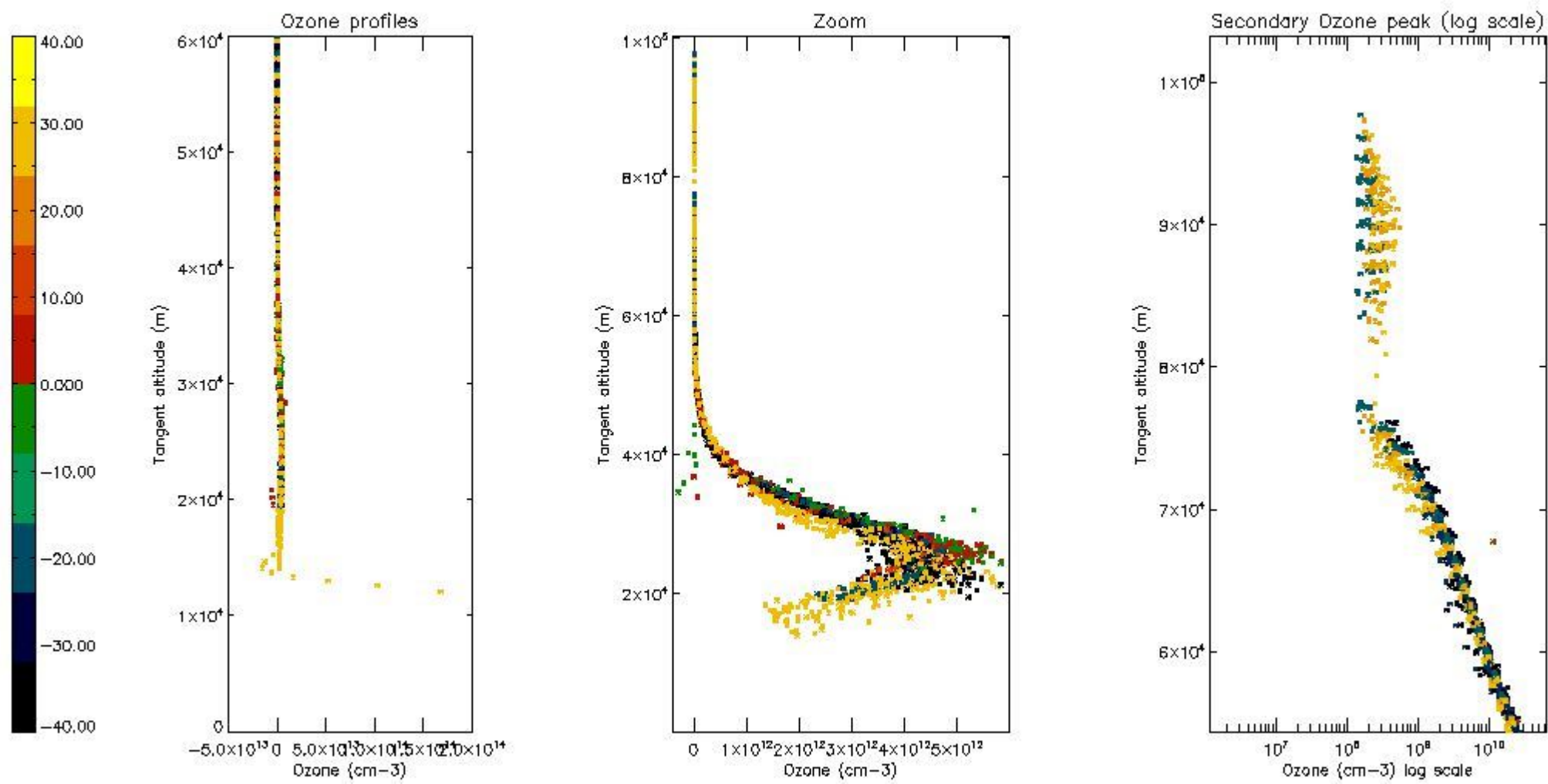
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



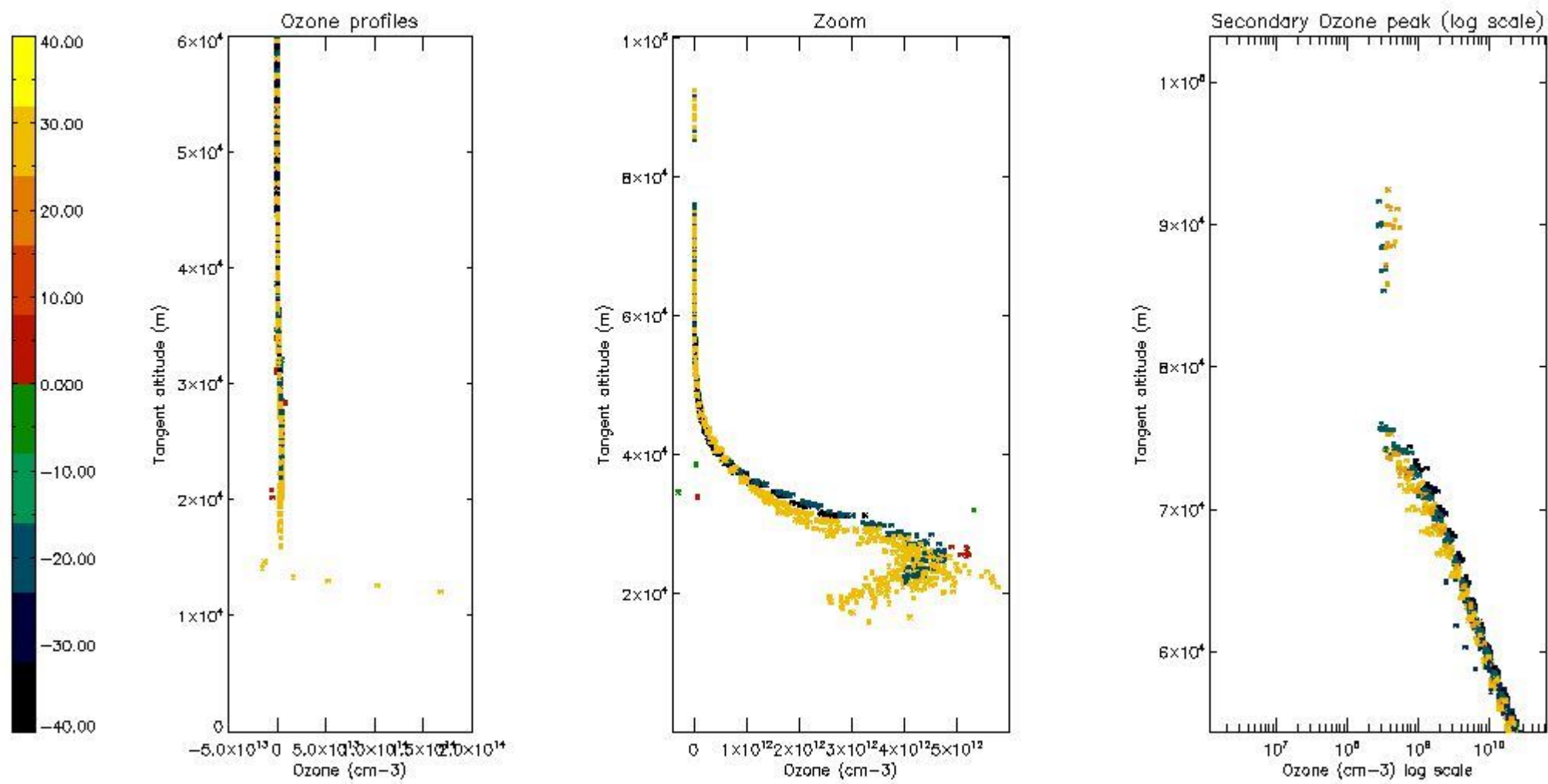
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



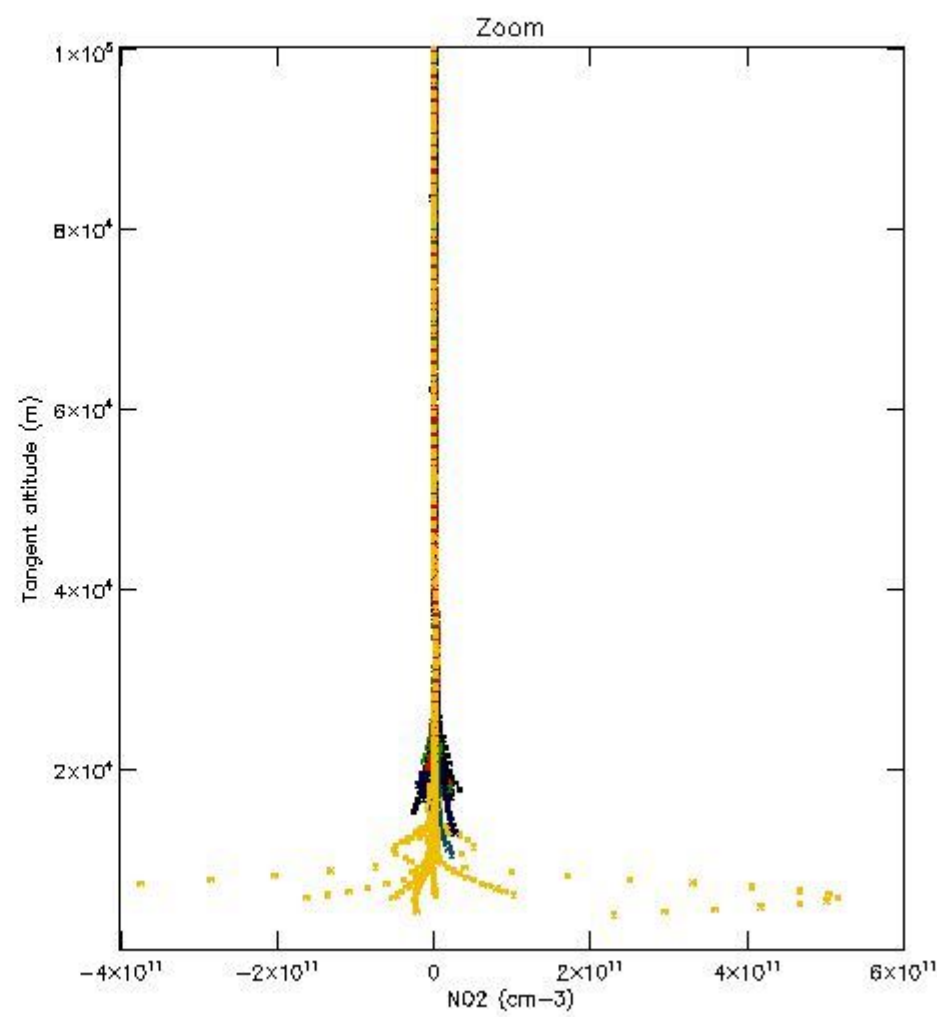
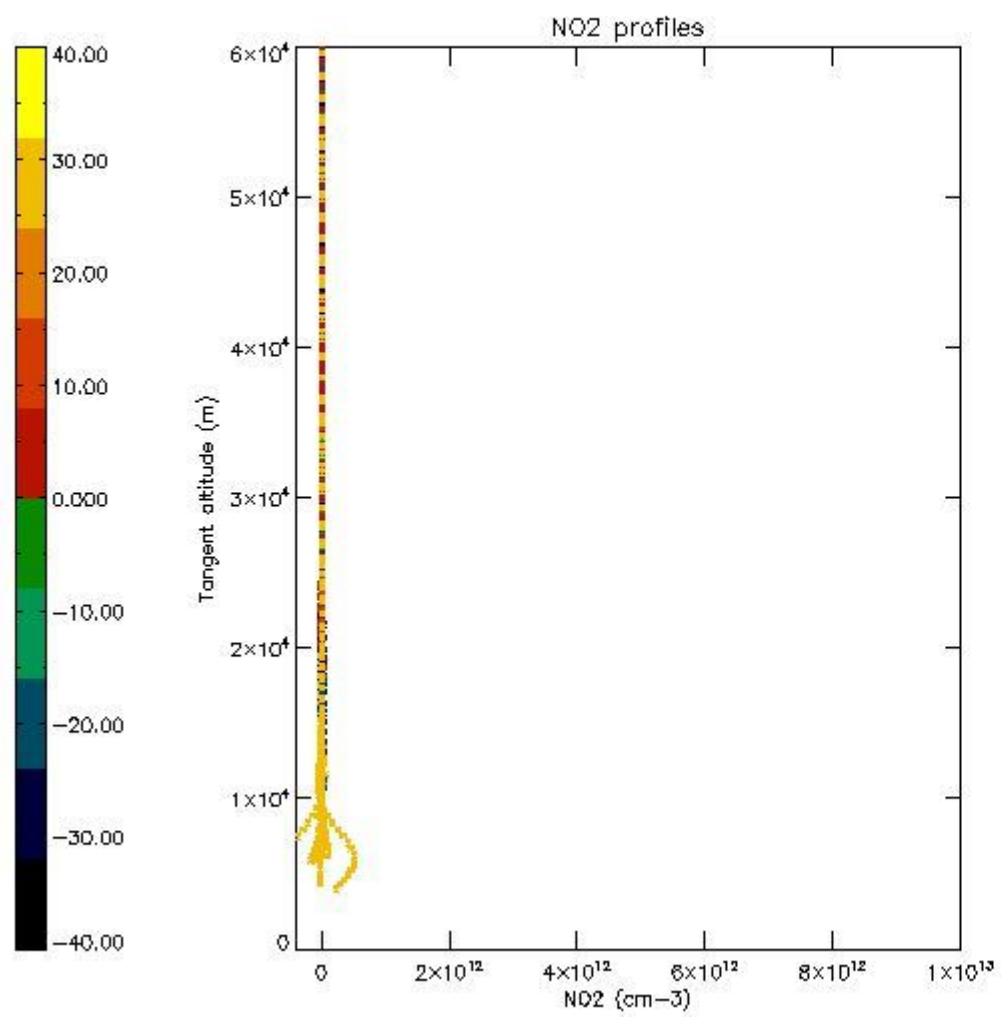
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



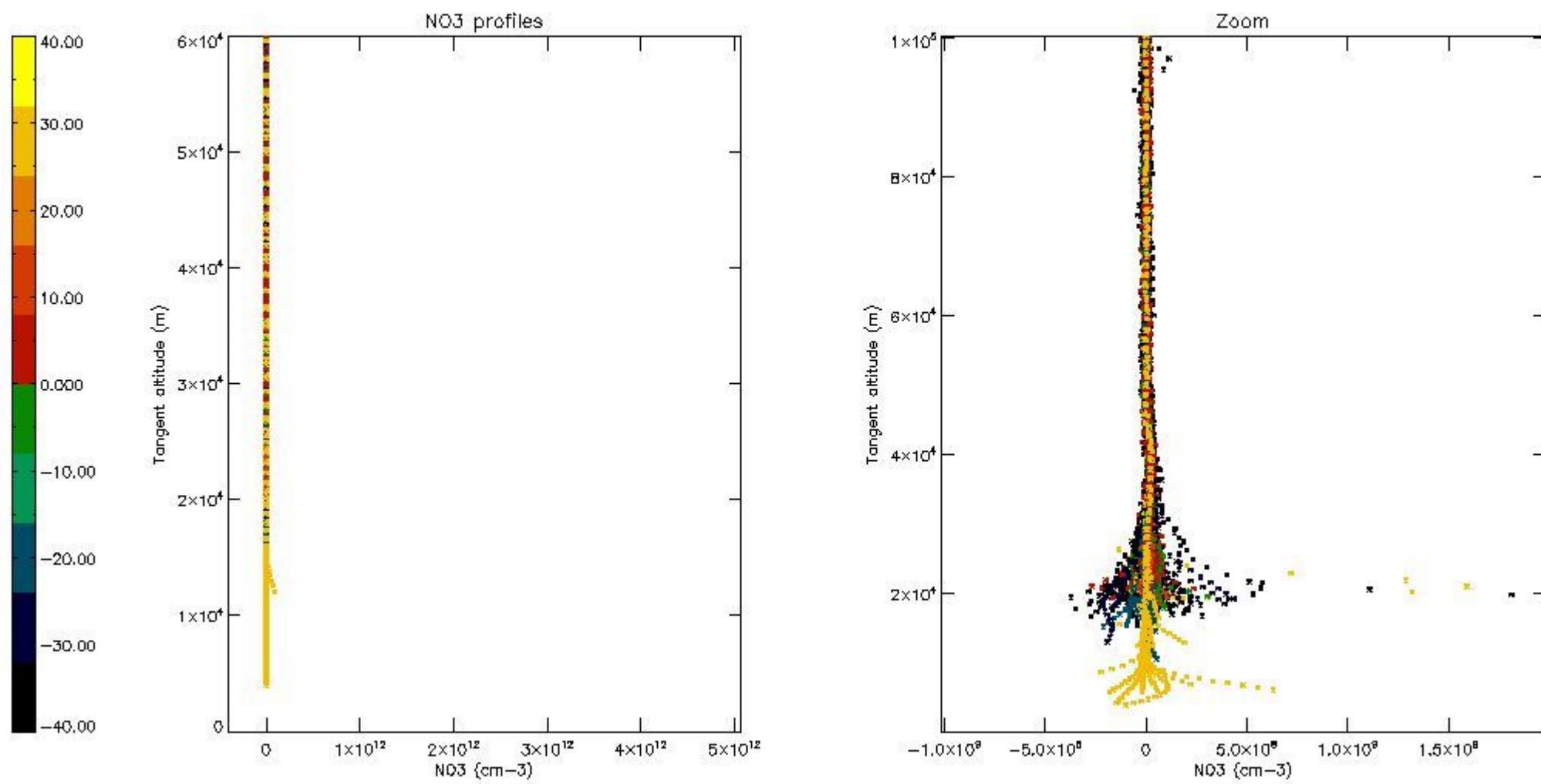
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



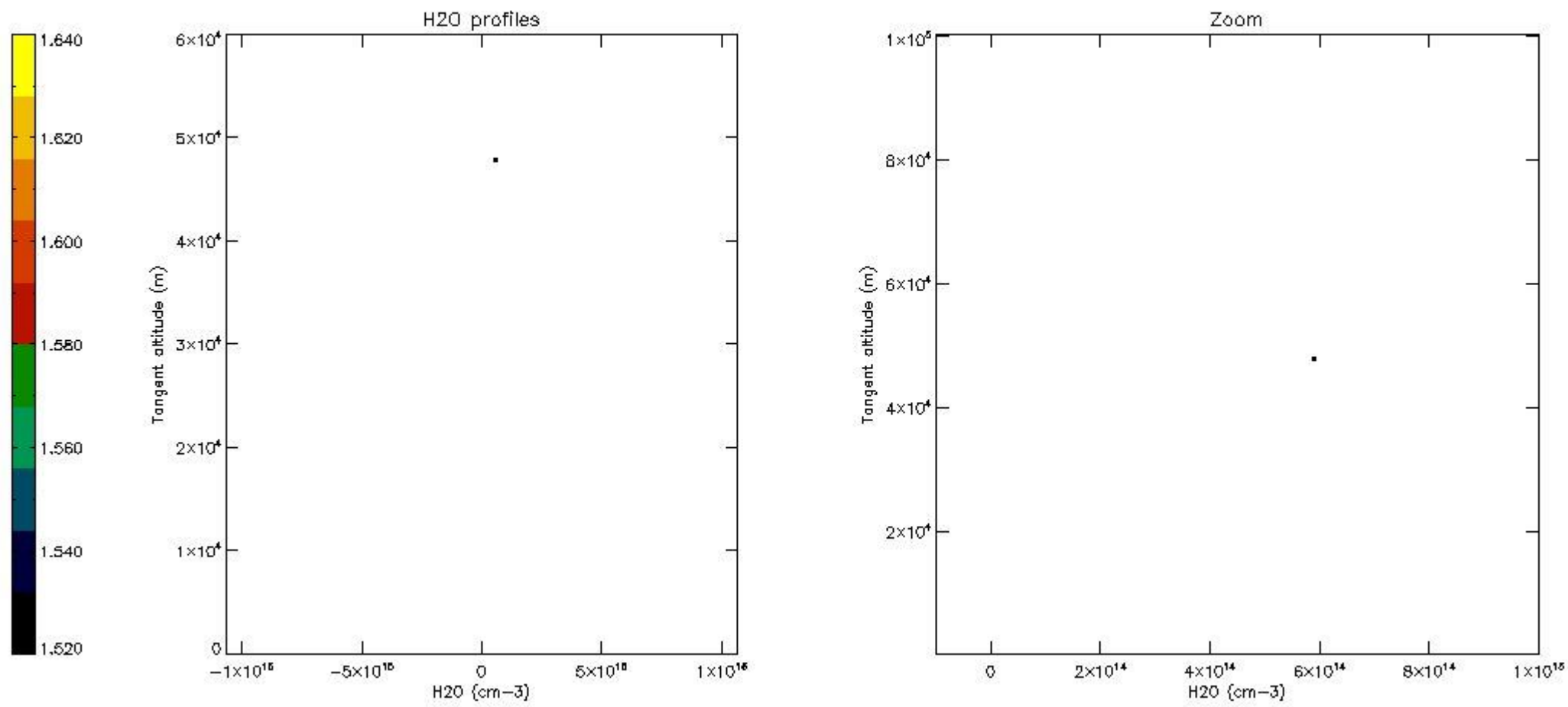
5.7 Plot NO3 profiles for all STD (dark without errors)

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	14-DEC-2007 00:02:16
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	14-DEC-2007 00:02:16
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	14-DEC-2007 00:02:16

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

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

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

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[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](#)

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[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](#)

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[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	23APR2013 14:08:10
Data source version	GOMOS/6.01
Start time of products	14-12-2007 (14DEC2007 00:00:00)
Stop time of products	15-12-2007 (15DEC2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	379
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

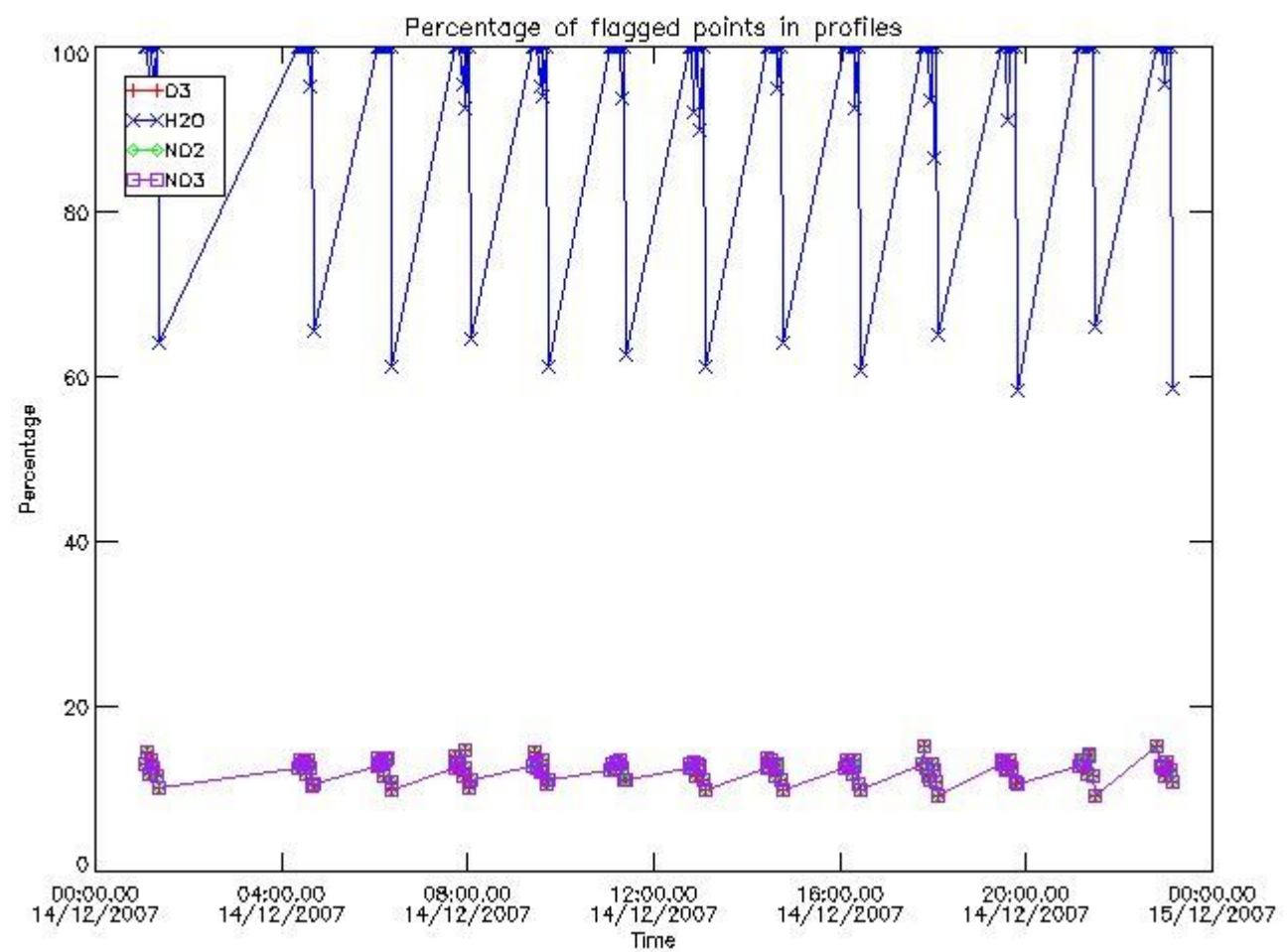
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20071214_000216_000000502064_00145_30259_8511.N1	14-DEC-2007 00:02:16	Twilight	49.500	13	87Alp Tau	0.86700	3800.0	99	30259	No
2	GOM_NL__2PRFIN20071214_000422_000000362064_00145_30259_8512.N1	14-DEC-2007 00:04:22	Bright	35.500	146	25Eta Tau	2.8730	15200.	71	30259	No
3	GOM_NL__2PRFIN20071214_000634_000000372064_00145_30259_8513.N1	14-DEC-2007 00:06:34	Bright	37.000	150	44Zet Per	2.8900	28000.	74	30259	No
4	GOM_NL__2PRFIN20071214_000852_000000362064_00145_30259_8514.N1	14-DEC-2007 00:08:52	Bright	36.000	149	45Eps Per	2.8880	30000.	72	30259	No
5	GOM_NL__2PRFIN20071214_001103_000000342064_00145_30259_8515.N1	14-DEC-2007 00:11:03	Bright	33.500	175	39Del Per	3.0100	19400.	67	30259	No
6	GOM_NL__2PRFIN20071214_001245_000000342064_00145_30259_8516.N1	14-DEC-2007 00:12:45	Bright	34.000	160	23Gam Per	2.9300	4700.0	68	30259	No
7	GOM_NL__2PRFIN20071214_002245_000000362064_00145_30259_8517.N1	14-DEC-2007 00:22:45	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	30259	No
8	GOM_NL__2PRFIN20071214_002728_000000372064_00145_30259_8518.N1	14-DEC-2007 00:27:28	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	30259	No
9	GOM_NL__2PRFIN20071214_003213_000000412064_00145_30259_8519.N1	14-DEC-2007 00:32:13	Bright	40.500	32	77Eps UMa	1.7630	11000.	81	30259	No
10	GOM_NL__2PRFIN20071214_003442_000000392064_00145_30259_8520.N1	14-DEC-2007 00:34:42	Bright	39.000	39	85Eta UMa	1.8540	24000.	78	30259	No
11	GOM_NL__2PRFIN20071214_003757_000000352064_00145_30259_8521.N1	14-DEC-2007 00:37:57	Bright	34.500	180	27Gam Boo	3.0400	8000.0	69	30259	No
12	GOM_NL__2PRFIN20071214_004108_000000362064_00145_30259_8522.N1	14-DEC-2007 00:41:08	Bright	35.500	83		2.3780	11000.	71	30259	No
13	GOM_NL__2PRFIN20071214_004422_000000402064_00145_30259_8523.N1	14-DEC-2007 00:44:22	Bright	39.500	111	8Eta Boo	2.6800	6000.0	79	30259	No
14	GOM_NL__2PRFIN20071214_005405_000000492064_00145_30259_8524.N1	14-DEC-2007 00:54:05	Twilight	49.000	15	67Alp Vir	0.97600	28000.	98	30259	No
15	GOM_NL__2PRFIN20071214_005734_000000452064_00145_30259_8525.N1	14-DEC-2007 00:57:34	Twilight	45.000	169	46Gam Hya	2.9910	4700.0	90	30259	No
16	GOM_NL__2PRFIN20071214_005924_000000412064_00145_30259_8526.N1	14-DEC-2007 00:59:24	Twilight	41.000	54	5The Cen	2.0550	4500.0	82	30259	No
17	GOM_NL__2PRFIN20071214_010458_000000402064_00145_30259_8527.N1	14-DEC-2007 01:04:58	Dark	39.500	64	Gam Cen	2.2000	10600.	79	30259	No
18	GOM_NL__2PRFIN20071214_010655_000000392064_00146_30260_8513.N1	14-DEC-2007 01:06:55	Dark	38.500	20	Bet Cru	1.2530	30000.	77	30260	No
19	GOM_NL__2PRFIN20071214_011017_000000442064_00146_30260_8514.N1	14-DEC-2007 01:10:17	Dark	43.500	113	Mu Vel	2.6920	5000.0	87	30260	No
20	GOM_NL__2PRFIN20071214_011257_000000382064_00146_30260_8515.N1	14-DEC-2007 01:12:57	Dark	38.000	159	Ups Car	2.9200	7200.0	76	30260	No
21	GOM_NL__2PRFIN20071214_011414_000000412064_00146_30260_8516.N1	14-DEC-2007 01:14:14	Dark	41.000	71	Iot Car	2.2460	7700.0	82	30260	No
22	GOM_NL__2PRFIN20071214_011850_000000492064_00146_30260_8517.N1	14-DEC-2007 01:18:50	Dark	48.500	34	Gam2Vel	1.7930	23000.	97	30260	No
23	GOM_NL__2PRFIN20071214_012109_000000512064_00146_30260_8518.N1	14-DEC-2007 01:21:09	Dark	50.500	2	Alp Car	-0.73600	7000.0	101	30260	No
24	GOM_NL__2PRFIN20071214_012715_000000442064_00146_30260_8519.N1	14-DEC-2007 01:27:15	Straylight	44.000	108	Alp Col	2.6520	15200.	88	30260	No
25	GOM_NL__2PRFIN20071214_013219_000000472064_00146_30260_8520.N1	14-DEC-2007 01:32:19	Straylight	47.000	101	11Alp Lep	2.5820	7000.0	94	30260	No
26	GOM_NL__2PRFIN20071214_013528_000000512064_00146_30260_8521.N1	14-DEC-2007 01:35:28	Straylight	51.000	7	19Bet Ori	0.10000	14000.	102	30260	No
27	GOM_NL__2PRFIN20071214_014252_000000502064_00146_30260_8522.N1	14-DEC-2007 01:42:52	Twilight	50.000	13	87Alp Tau	0.86700	3800.0	100	30260	No
28	GOM_NL__2PRFIN20071214_014458_000000372064_00146_30260_8523.N1	14-DEC-2007 01:44:58	Bright	36.500	146	25Eta Tau	2.8730	15200.	73	30260	No
29	GOM_NL__2PRFIN20071214_014709_000000352064_00146_30260_8524.N1	14-DEC-2007 01:47:09	Bright	35.000	150	44Zet Per	2.8900	28000.	70	30260	No
30	GOM_NL__2PRFIN20071214_014928_000000352064_00146_30260_8525.N1	14-DEC-2007 01:49:28	Bright	35.000	149	45Eps Per	2.8880	30000.	70	30260	No
31	GOM_NL__2PRFIN20071214_015139_000000342064_00146_30260_8526.N1	14-DEC-2007 01:51:39	Bright	34.000	175	39Del Per	3.0100	19400.	68	30260	No
32	GOM_NL__2PRFIN20071214_015321_000000362064_00146_30260_8527.N1	14-DEC-2007 01:53:21	Bright	36.000	160	23Gam Per	2.9300	4700.0	72	30260	No
33	GOM_NL__2PRFIN20071214_020321_000000332064_00146_30260_8528.N1	14-DEC-2007 02:03:21	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	30260	No
34	GOM_NL__2PRFIN20071214_020804_000000382064_00146_30260_8529.N1	14-DEC-2007 02:08:04	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	30260	No
35	GOM_NL__2PRFIN20071214_021249_000000422064_00146_30260_8530.N1	14-DEC-2007 02:12:49	Bright	42.000	32	77Eps UMa	1.7630	11000.	84	30260	No
36	GOM_NL__2PRFIN20071214_021518_000000392064_00146_30260_8531.N1	14-DEC-2007 02:15:18	Bright	39.000	39	85Eta UMa	1.8540	24000.	78	30260	No
37	GOM_NL__2PRFIN20071214_021834_000000352064_00146_30260_8532.N1	14-DEC-2007 02:18:34	Bright	35.000	180	27Gam Boo	3.0400	8000.0	70	30260	No
38	GOM_NL__2PRFIN20071214_022144_000000352064_00146_30260_8533.N1	14-DEC-2007 02:21:44	Bright	34.500	83		2.3780	11000.	69	30260	No
39	GOM_NL__2PRFIN20071214_022459_000000402064_00146_30260_8534.N1	14-DEC-2007 02:24:59	Bright	39.500	111	8Eta Boo	2.6800	6000.0	79	30260	No
40	GOM_NL__2PRFIN20071214_023441_000000522064_00146_30260_8535.N1	14-DEC-2007 02:34:41	Twilight	52.000	15	67Alp Vir	0.97600	28000.	104	30260	No
41	GOM_NL__2PRFIN20071214_024001_000000422064_00146_30260_8536.N1	14-DEC-2007 02:40:01	Twilight	42.000	54	5The Cen	2.0550	4500.0	84	30260	No
42	GOM_NL__2PRFIN20071214_034840_000000382064_00147_30261_8527.N1	14-DEC-2007 03:48:40	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	30261	No

338	GOM_NL__2PRFIN20071214_212610_000000442064_00158_30272_8729.N1	14-DEC-2007 21:26:10	Dark	44.000	34	Gam2Vel	1.7930	23000.	88	30272	No
339	GOM_NL__2PRFIN20071214_212825_000000552064_00158_30272_8730.N1	14-DEC-2007 21:28:25	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	30272	No
340	GOM_NL__2PRFIN20071214_213430_000000402064_00158_30272_8731.N1	14-DEC-2007 21:34:30	Straylight	40.000	108	Alp Col	2.6520	15200.	80	30272	No
341	GOM_NL__2PRFIN20071214_213932_000000452064_00158_30272_8732.N1	14-DEC-2007 21:39:32	Straylight	44.500	101	11Alp Lep	2.5820	7000.0	89	30272	No
342	GOM_NL__2PRFIN20071214_214239_000000562064_00158_30272_8733.N1	14-DEC-2007 21:42:39	Straylight	55.500	7	19Bet Ori	0.10000	14000.	111	30272	No
343	GOM_NL__2PRFIN20071214_214721_000000262064_00158_30272_8734.N1	14-DEC-2007 21:47:21	Twi_and_stray	26.000	27	24Gam Ori	1.6360	26000.	52	30272	No
344	GOM_NL__2PRFIN20071214_215002_000000542064_00158_30272_8735.N1	14-DEC-2007 21:50:02	Twi_and_stray	54.000	13	87Alp Tau	0.86700	3800.0	108	30272	No
345	GOM_NL__2PRFIN20071214_215210_000000362064_00158_30272_8736.N1	14-DEC-2007 21:52:10	Bright	36.000	146	25Eta Tau	2.8730	15200.	72	30272	No
346	GOM_NL__2PRFIN20071214_215421_000000362064_00158_30272_8737.N1	14-DEC-2007 21:54:21	Bright	36.000	150	44Zet Per	2.8900	28000.	72	30272	No
347	GOM_NL__2PRFIN20071214_215639_000000352064_00158_30272_8738.N1	14-DEC-2007 21:56:39	Bright	35.000	149	45Eps Per	2.8880	30000.	70	30272	No
348	GOM_NL__2PRFIN20071214_215850_000000352064_00158_30272_8739.N1	14-DEC-2007 21:58:50	Bright	35.000	175	39Del Per	3.0100	19400.	70	30272	No
349	GOM_NL__2PRFIN20071214_220033_000000342064_00158_30272_8740.N1	14-DEC-2007 22:00:33	Bright	33.500	160	23Gam Per	2.9300	4700.0	67	30272	No
350	GOM_NL__2PRFIN20071214_221032_000000362064_00158_30272_8741.N1	14-DEC-2007 22:10:32	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	30272	No
351	GOM_NL__2PRFIN20071214_221515_000000382064_00158_30272_8742.N1	14-DEC-2007 22:15:15	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	30272	No
352	GOM_NL__2PRFIN20071214_221957_000000422064_00158_30272_8743.N1	14-DEC-2007 22:19:57	Bright	41.500	32	77Eps UMa	1.7630	11000.	83	30272	No
353	GOM_NL__2PRFIN20071214_222229_000000382064_00158_30272_8744.N1	14-DEC-2007 22:22:29	Bright	38.000	39	85Eta UMa	1.8540	24000.	76	30272	No
354	GOM_NL__2PRFIN20071214_222546_000000542064_00158_30272_8745.N1	14-DEC-2007 22:25:46	Bright	54.000	180	27Gam Boo	3.0400	8000.0	108	30272	No
355	GOM_NL__2PRFIN20071214_222857_000000352064_00158_30272_8746.N1	14-DEC-2007 22:28:57	Bright	35.000	83		2.3780	11000.	70	30272	No
356	GOM_NL__2PRFIN20071214_223213_000000402064_00158_30272_8747.N1	14-DEC-2007 22:32:13	Bright	40.000	111	8Eta Boo	2.6800	6000.0	80	30272	No
357	GOM_NL__2PRFIN20071214_224201_000000522064_00158_30272_8748.N1	14-DEC-2007 22:42:01	Twi_and_stray	52.000	15	67Alp Vir	0.97600	28000.	104	30272	No
358	GOM_NL__2PRFIN20071214_224530_000000462064_00158_30272_8749.N1	14-DEC-2007 22:45:30	Twilight	46.000	169	46Gam Hya	2.9910	4700.0	92	30272	No
359	GOM_NL__2PRFIN20071214_224717_000000432064_00158_30272_8750.N1	14-DEC-2007 22:47:17	Twilight	42.500	54	5The Cen	2.0550	4500.0	85	30272	No
360	GOM_NL__2PRFIN20071214_224846_000000402064_00158_30272_8751.N1	14-DEC-2007 22:48:46	Dark	40.000	123	lot Cen	2.7500	10200.	80	30272	No
361	GOM_NL__2PRFIN20071214_225253_000000402064_00158_30272_8752.N1	14-DEC-2007 22:52:53	Dark	40.000	64	Gam Cen	2.2000	10600.	80	30272	No
362	GOM_NL__2PRFIN20071214_225448_000000412064_00159_30273_8735.N1	14-DEC-2007 22:54:48	Dark	40.500	20	Bet Cru	1.2530	30000.	81	30273	No
363	GOM_NL__2PRFIN20071214_225816_000000442064_00159_30273_8736.N1	14-DEC-2007 22:58:16	Dark	44.000	113	Mu Vel	2.6920	5000.0	88	30273	No
364	GOM_NL__2PRFIN20071214_230050_000000392064_00159_30273_8737.N1	14-DEC-2007 23:00:50	Dark	38.500	159	Ups Car	2.9200	7200.0	77	30273	No
365	GOM_NL__2PRFIN20071214_230209_000000402064_00159_30273_8738.N1	14-DEC-2007 23:02:09	Dark	40.000	71	lot Car	2.2460	7700.0	80	30273	No
366	GOM_NL__2PRFIN20071214_230647_000000462064_00159_30273_8739.N1	14-DEC-2007 23:06:47	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	30273	No
367	GOM_NL__2PRFIN20071214_230902_000000482064_00159_30273_8740.N1	14-DEC-2007 23:09:02	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	30273	No
368	GOM_NL__2PRFIN20071214_231506_000000402064_00159_30273_8741.N1	14-DEC-2007 23:15:06	Straylight	39.500	108	Alp Col	2.6520	15200.	79	30273	No
369	GOM_NL__2PRFIN20071214_232008_000000442064_00159_30273_8742.N1	14-DEC-2007 23:20:08	Straylight	43.500	101	11Alp Lep	2.5820	7000.0	87	30273	No
370	GOM_NL__2PRFIN20071214_232315_000000492064_00159_30273_8743.N1	14-DEC-2007 23:23:15	Straylight	48.500	7	19Bet Ori	0.10000	14000.	97	30273	No
371	GOM_NL__2PRFIN20071214_232757_000000262064_00159_30273_8744.N1	14-DEC-2007 23:27:57	Twi_and_stray	26.000	27	24Gam Ori	1.6360	26000.	52	30273	No
372	GOM_NL__2PRFIN20071214_233038_000000512064_00159_30273_8745.N1	14-DEC-2007 23:30:38	Twi_and_stray	51.000	13	87Alp Tau	0.86700	3800.0	102	30273	No
373	GOM_NL__2PRFIN20071214_233246_000000362064_00159_30273_8746.N1	14-DEC-2007 23:32:46	Bright	36.000	146	25Eta Tau	2.8730	15200.	72	30273	No
374	GOM_NL__2PRFIN20071214_233456_000000372064_00159_30273_8747.N1	14-DEC-2007 23:34:56	Bright	36.500	150	44Zet Per	2.8900	28000.	73	30273	No
375	GOM_NL__2PRFIN20071214_233715_000000362064_00159_30273_8748.N1	14-DEC-2007 23:37:15	Bright	35.500	149	45Eps Per	2.8880	30000.	71	30273	No
376	GOM_NL__2PRFIN20071214_233926_000000352064_00159_30273_8749.N1	14-DEC-2007 23:39:26	Bright	34.500	175	39Del Per	3.0100	19400.	69	30273	No
377	GOM_NL__2PRFIN20071214_234109_000000362064_00159_30273_8750.N1	14-DEC-2007 23:41:09	Bright	35.500	160	23Gam Per	2.9300	4700.0	71	30273	No
378	GOM_NL__2PRFIN20071214_235108_000000362064_00159_30273_8751.N1	14-DEC-2007 23:51:08	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	30273	No
379	GOM_NL__2PRFIN20071214_235551_000000372064_00159_30273_8752.N1	14-DEC-2007 23:55:51	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	30273	No

3. Quality information per product

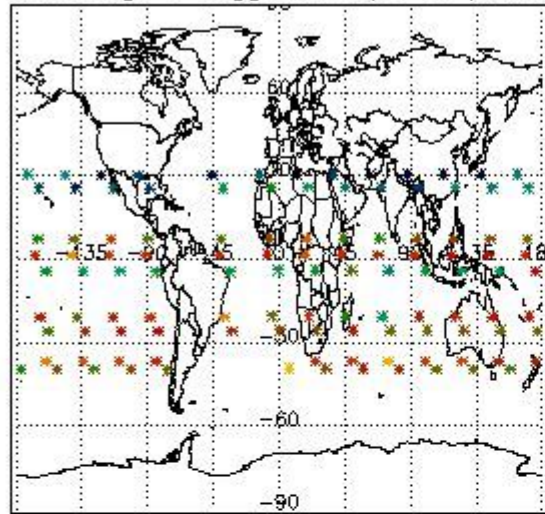
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

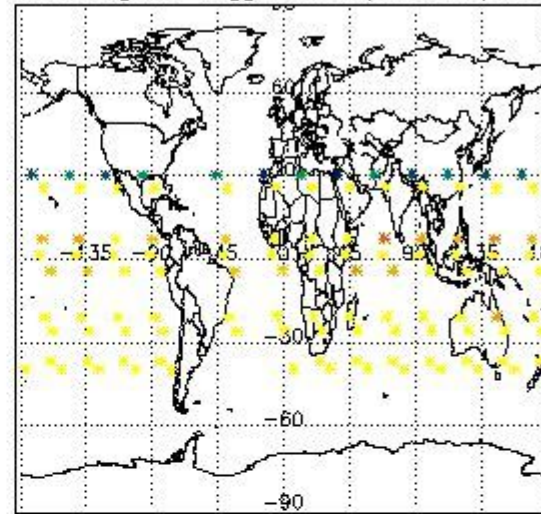


3.2 Plot quality information per product (world map)

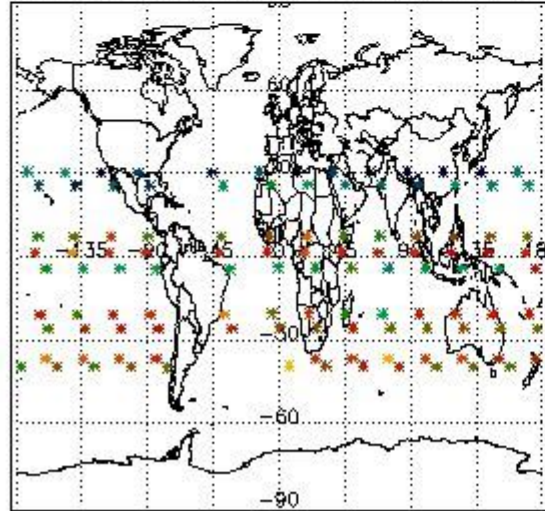
Percentage of flagged data per O3 profile



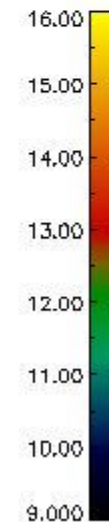
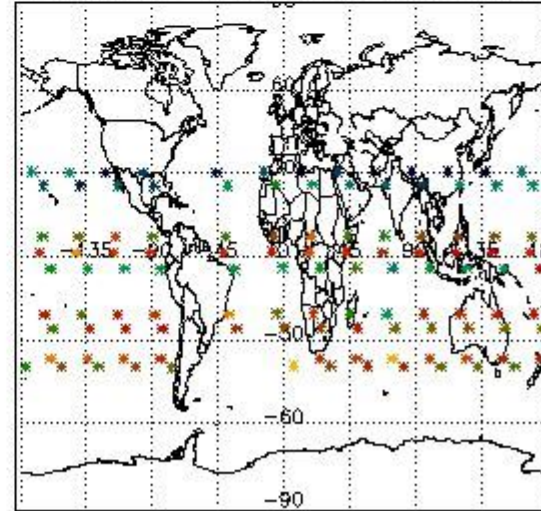
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

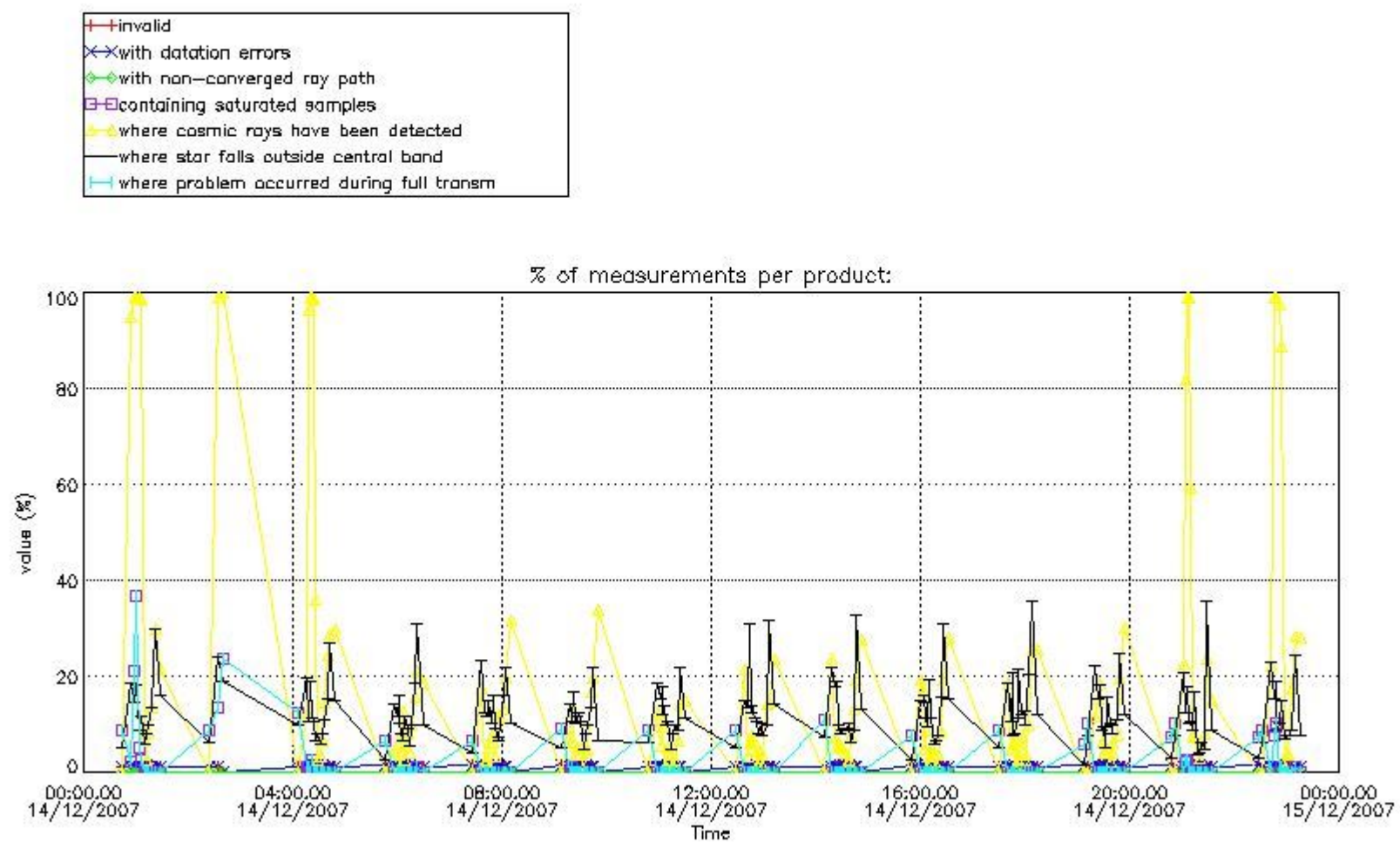


4. Level 1 quality information per product

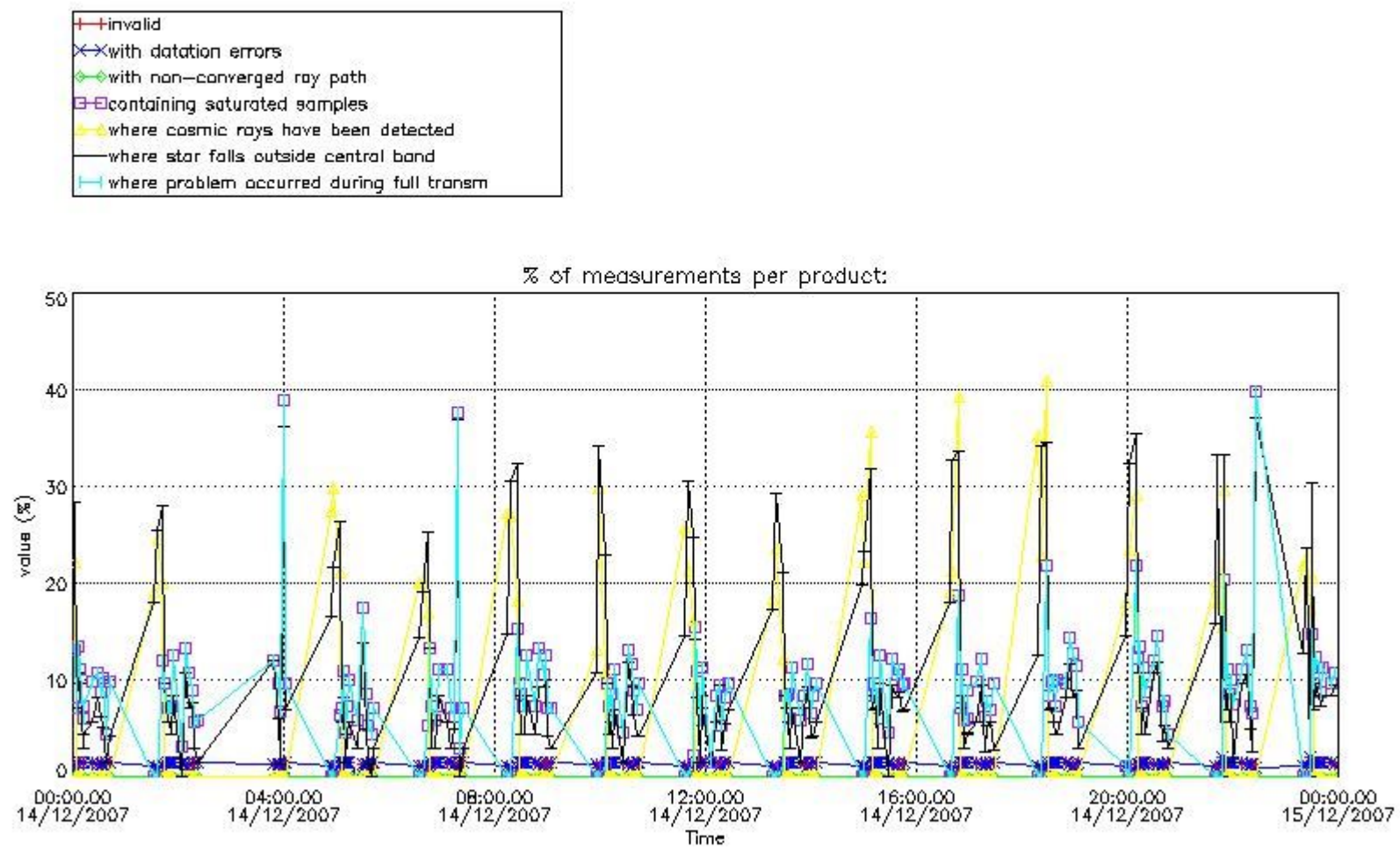
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



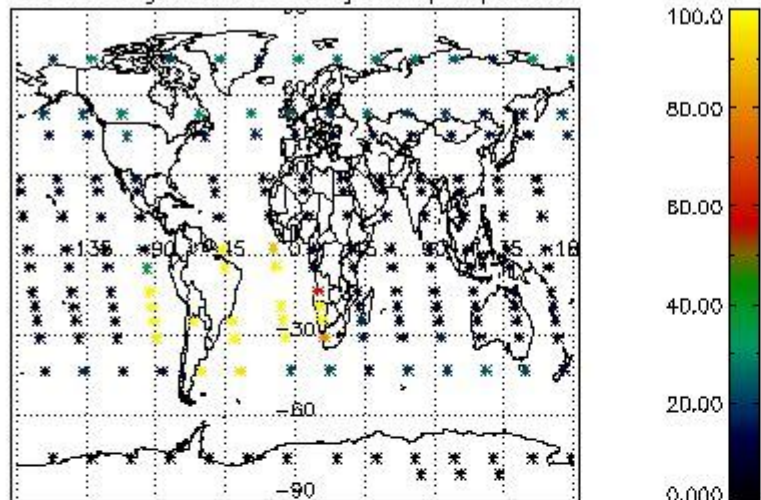
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



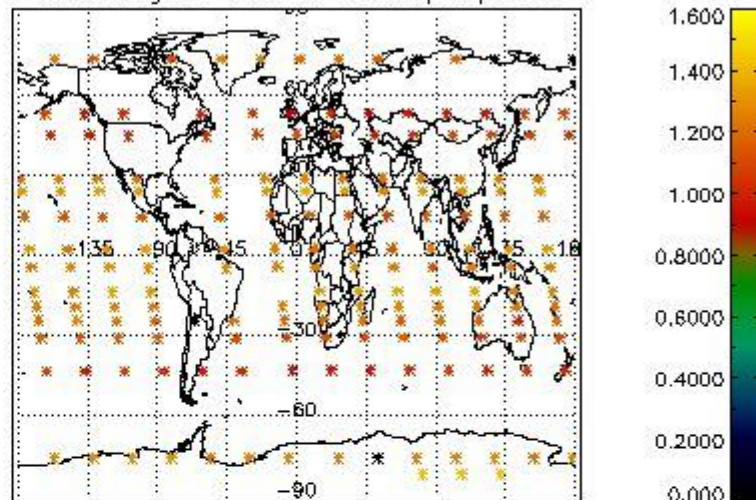
4.2 Plot quality information per product coming from level 1b processing (world map)

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

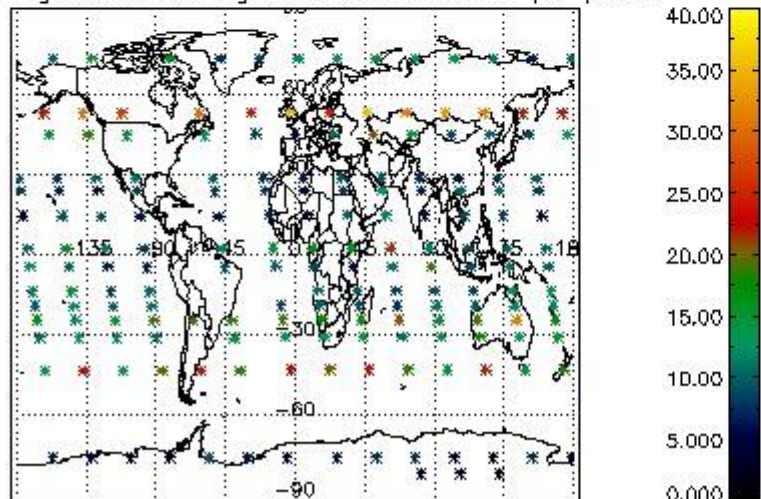
Percentage of cosmic ray hits per profile



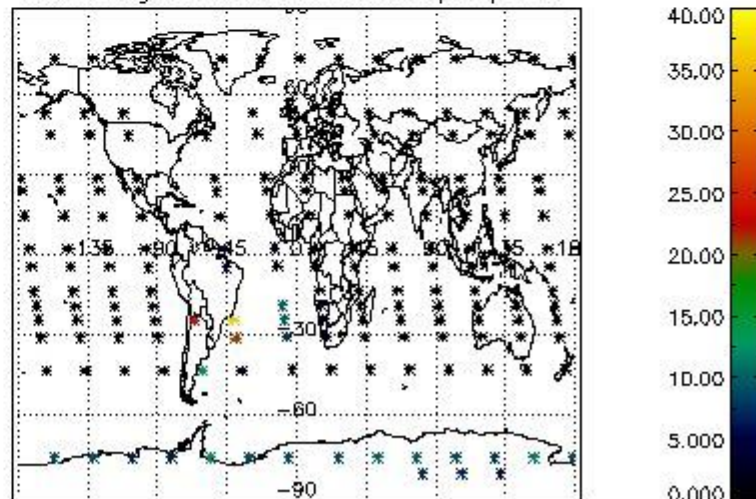
Percentage of datation errors per profile



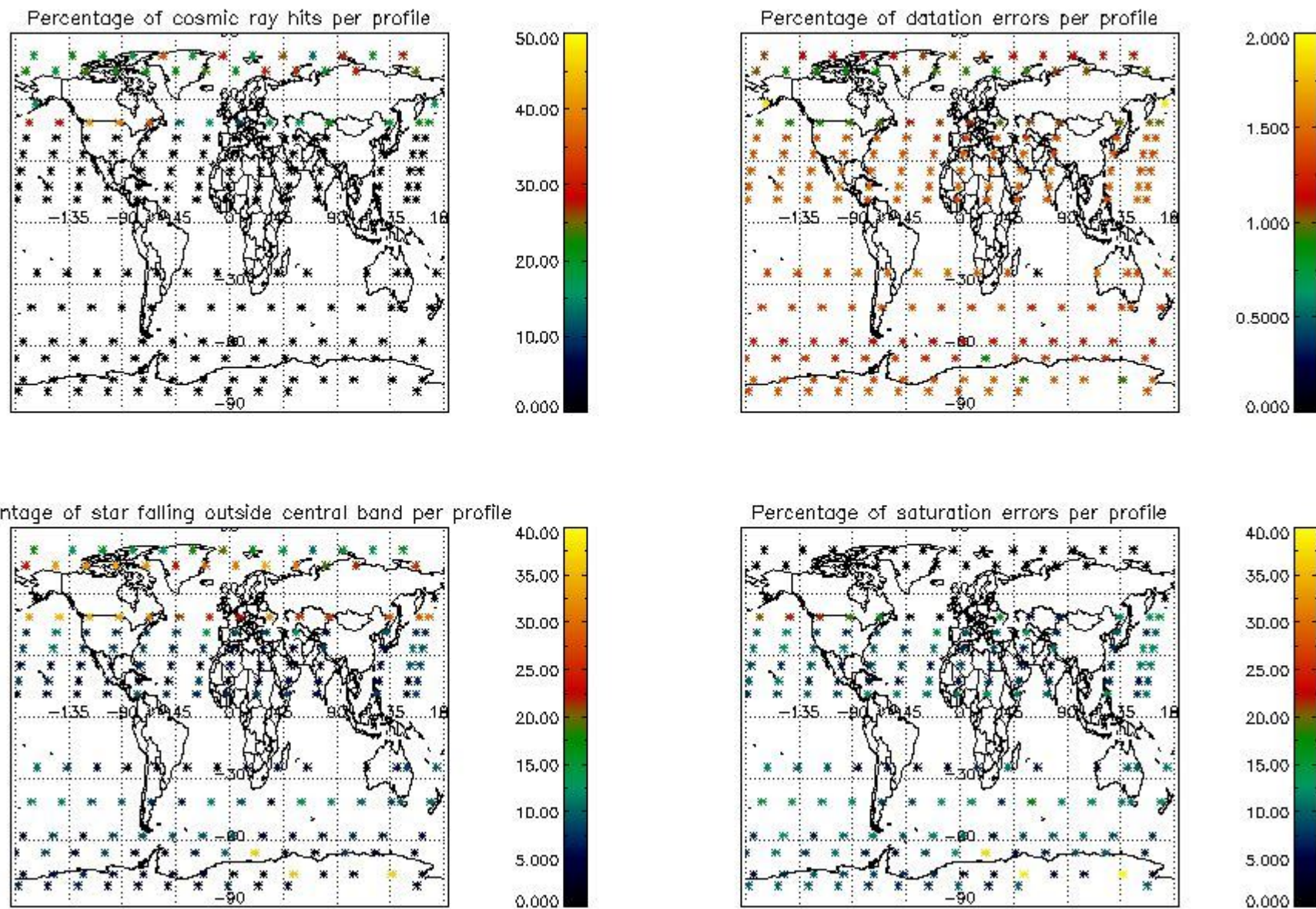
Percentage of star falling outside central band per profile



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

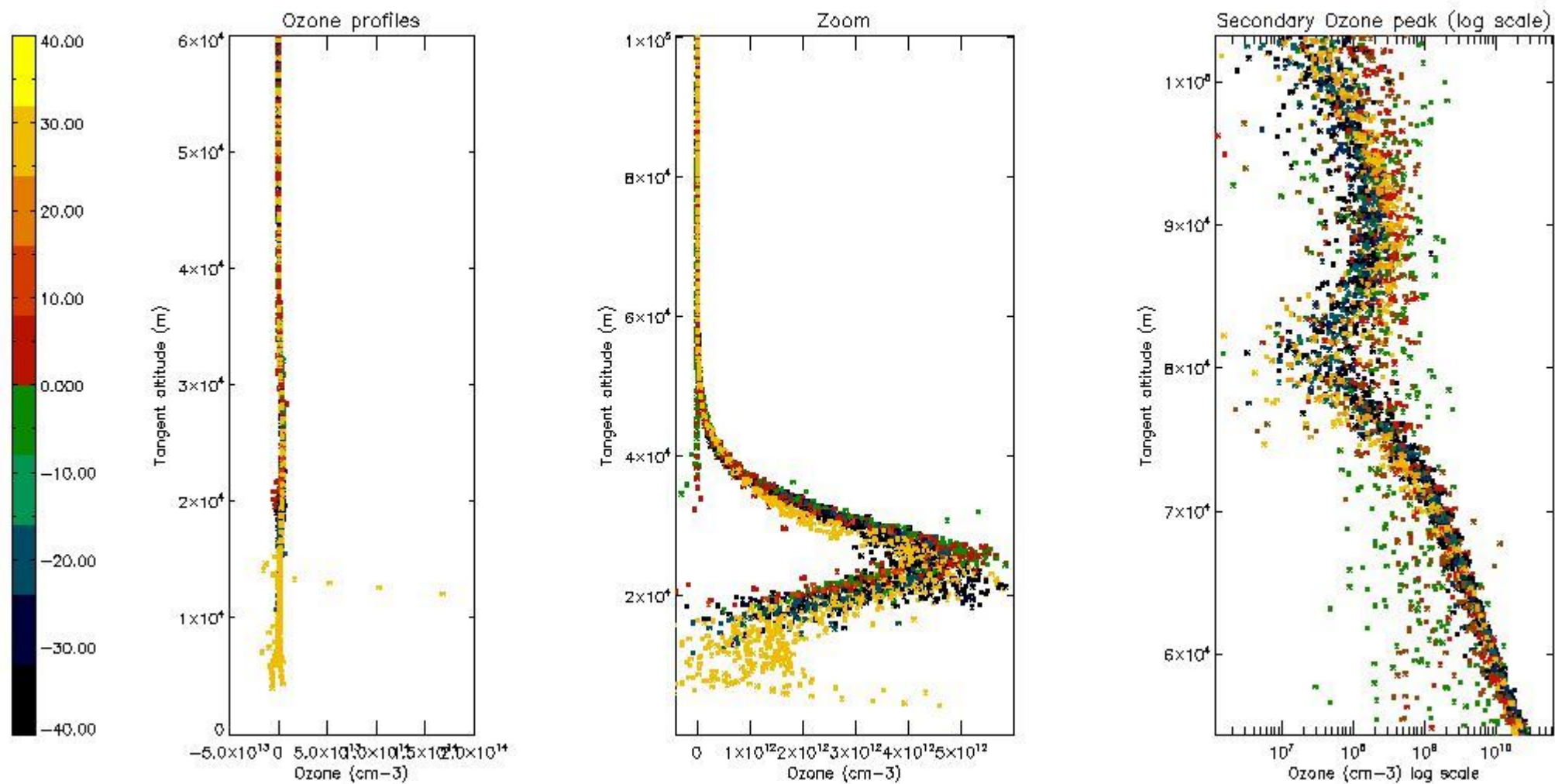
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	32
STD < 20	18

STD < 10	14
STD < 5	8

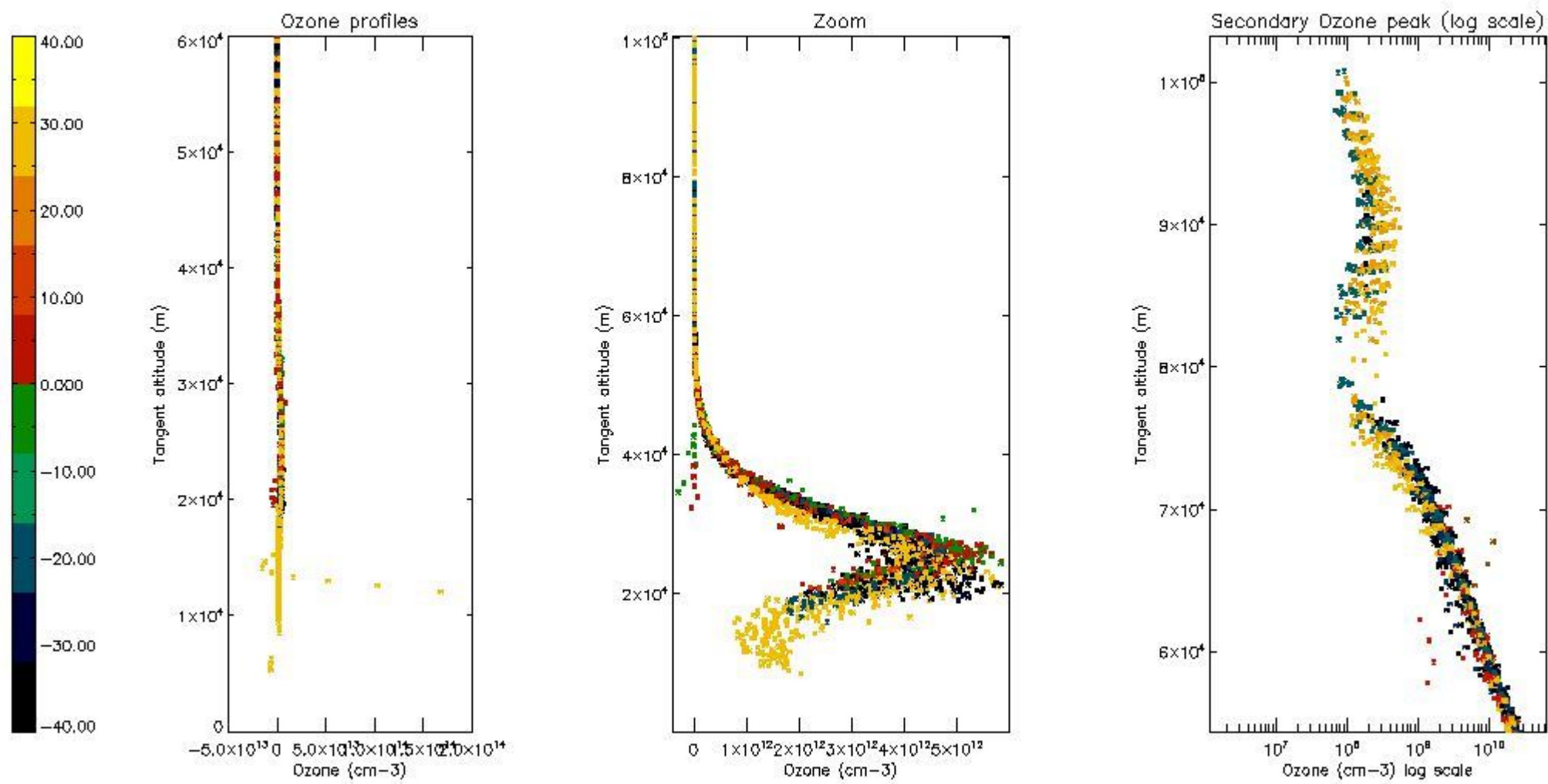
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



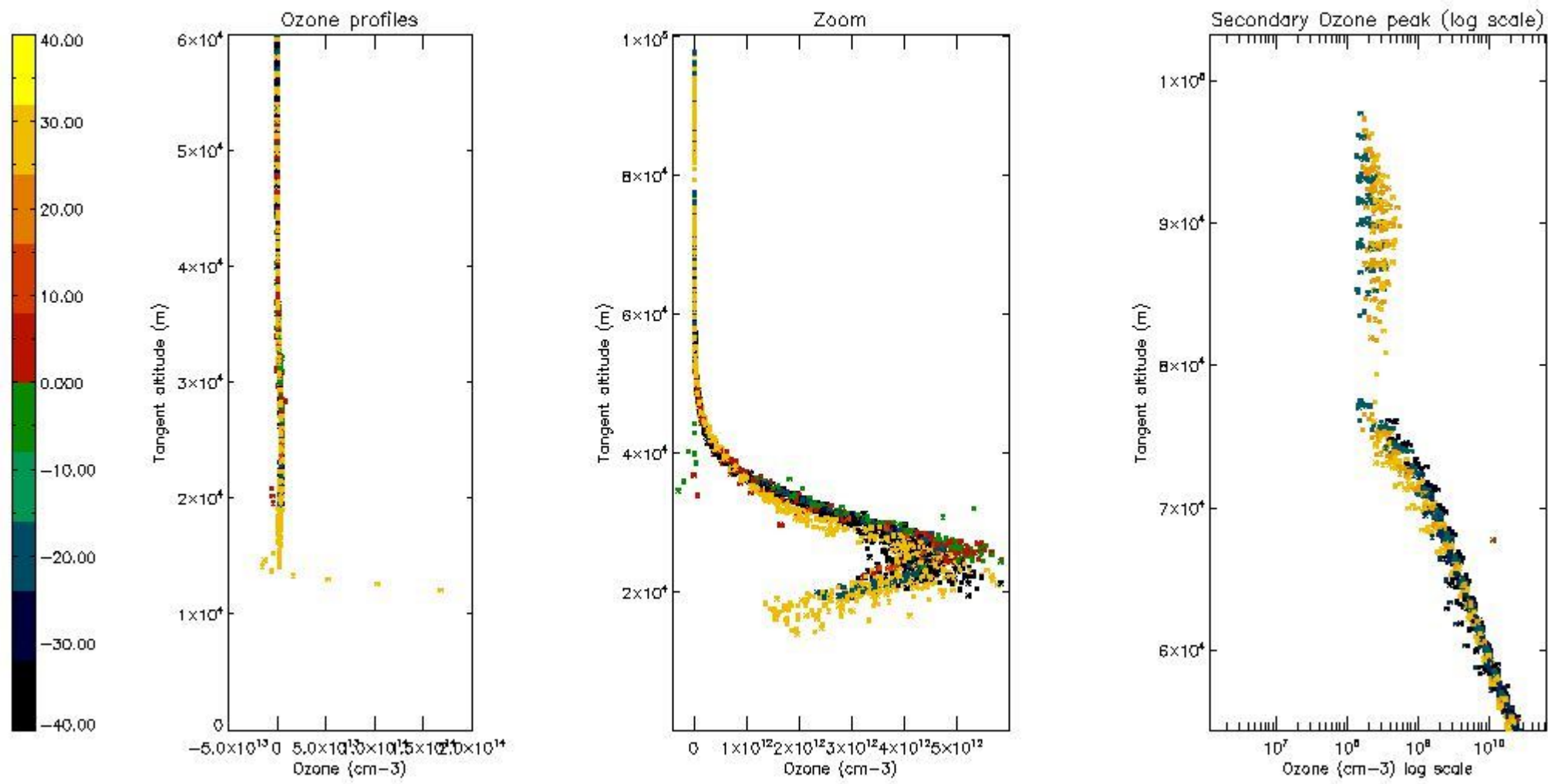
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



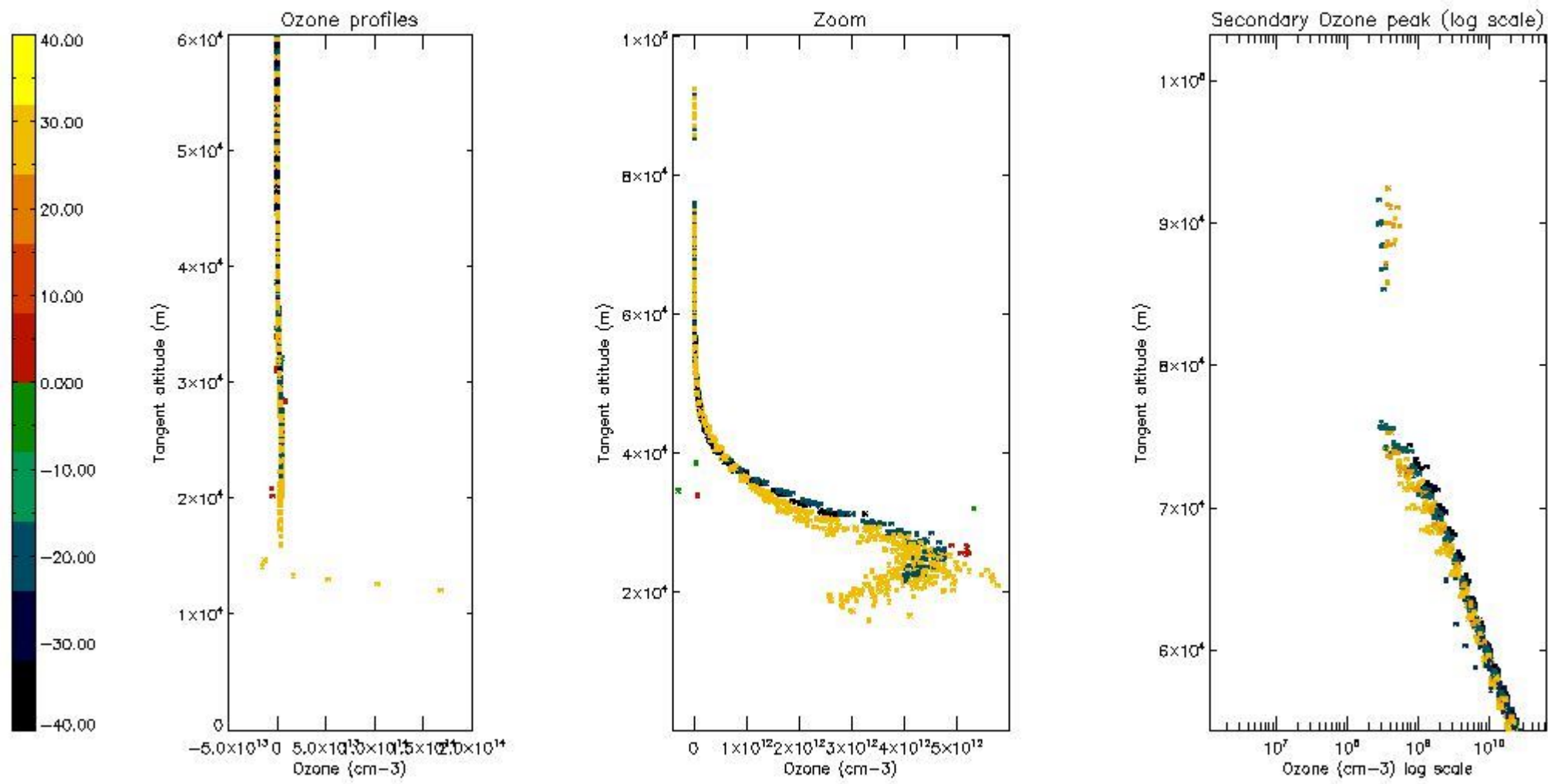
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



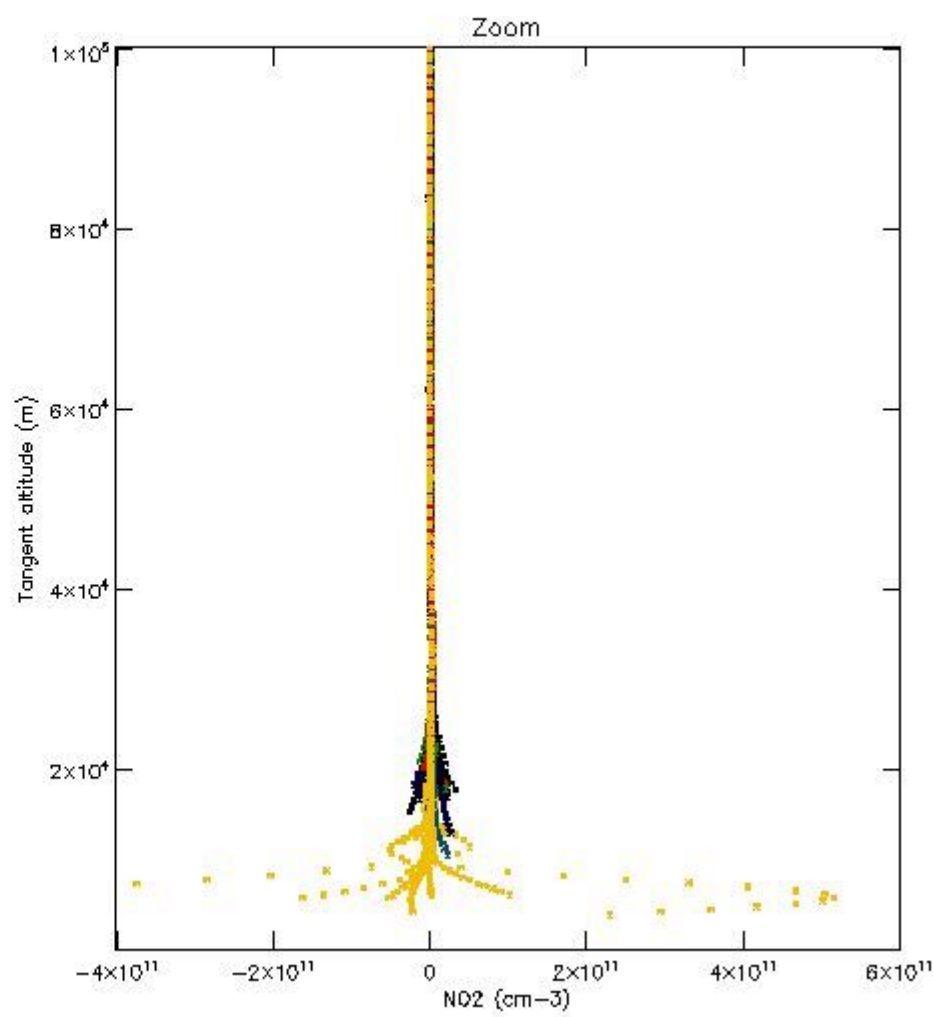
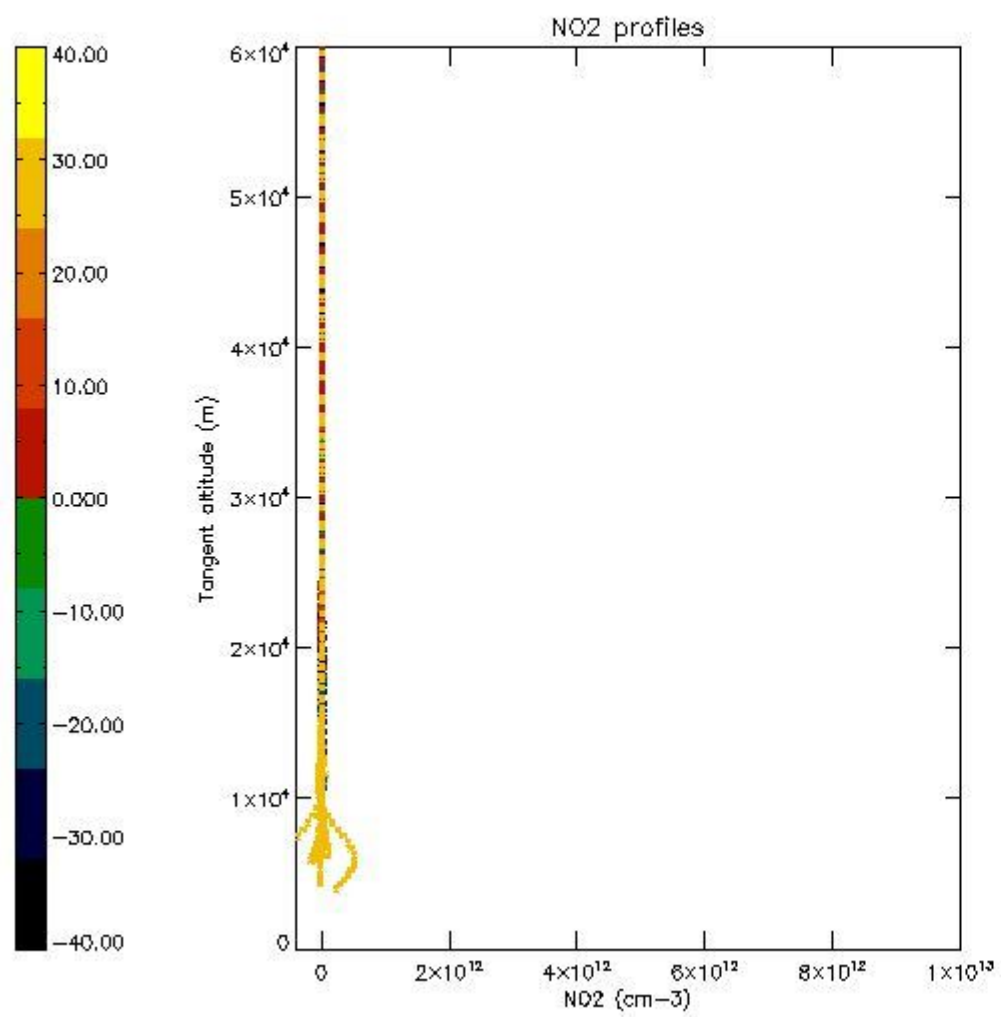
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



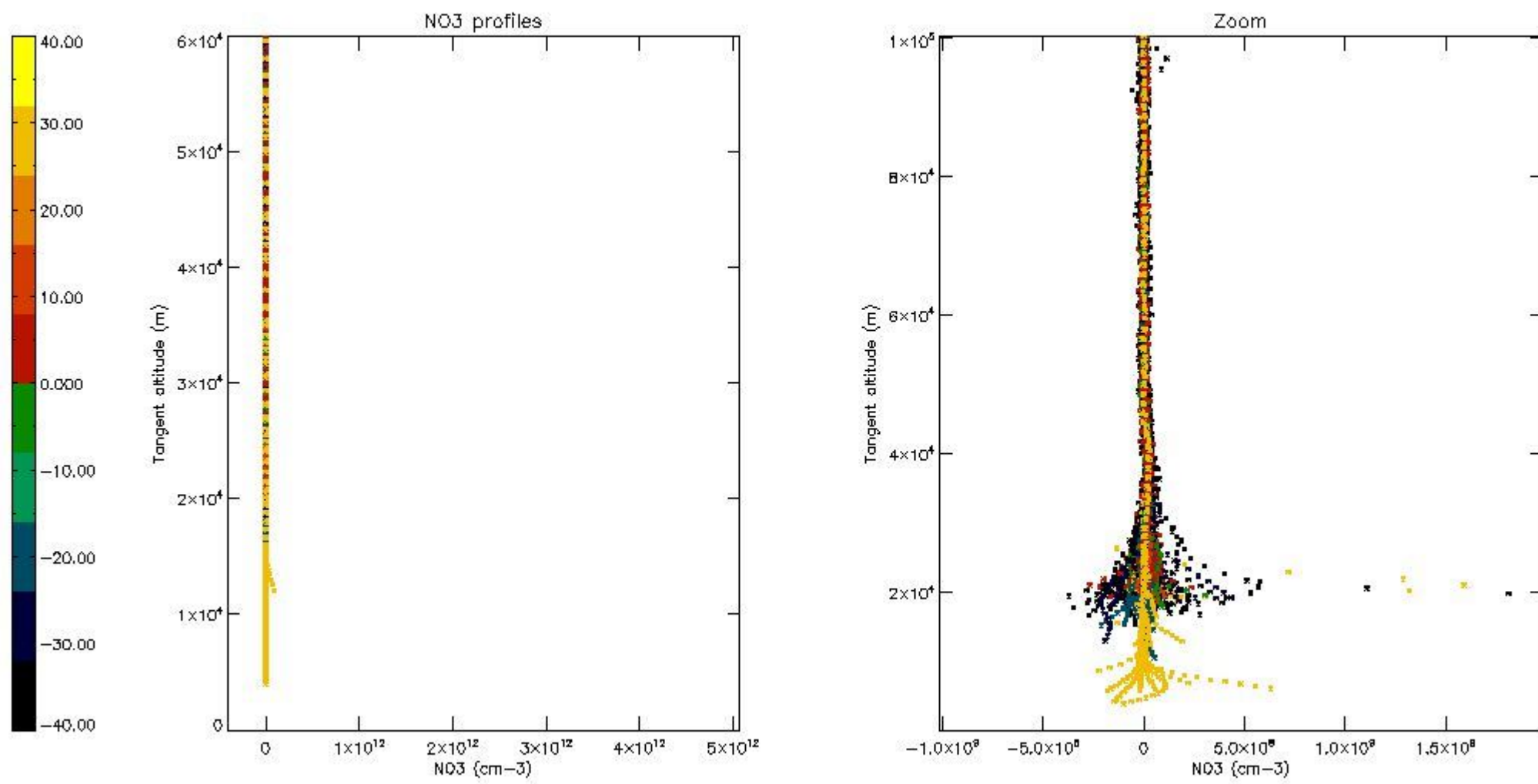
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



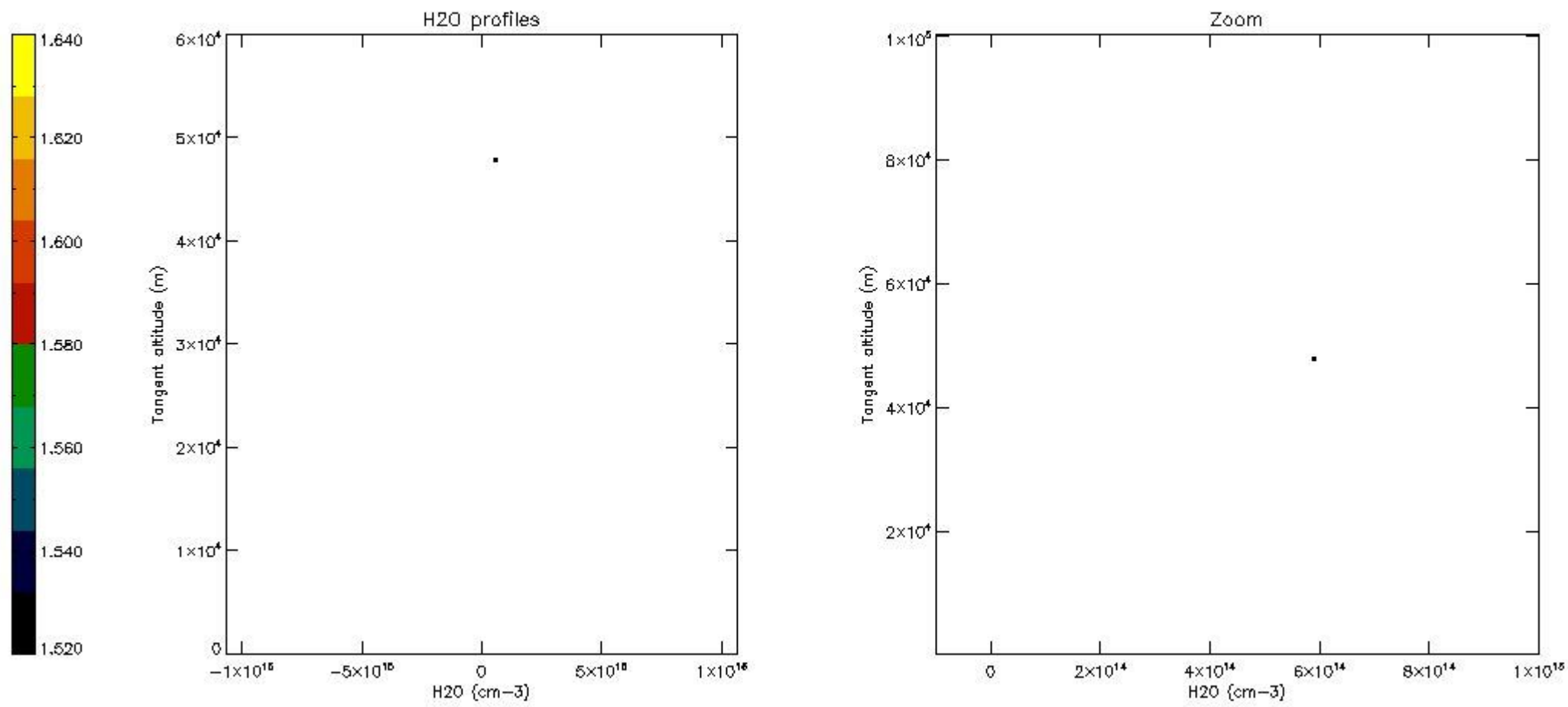
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

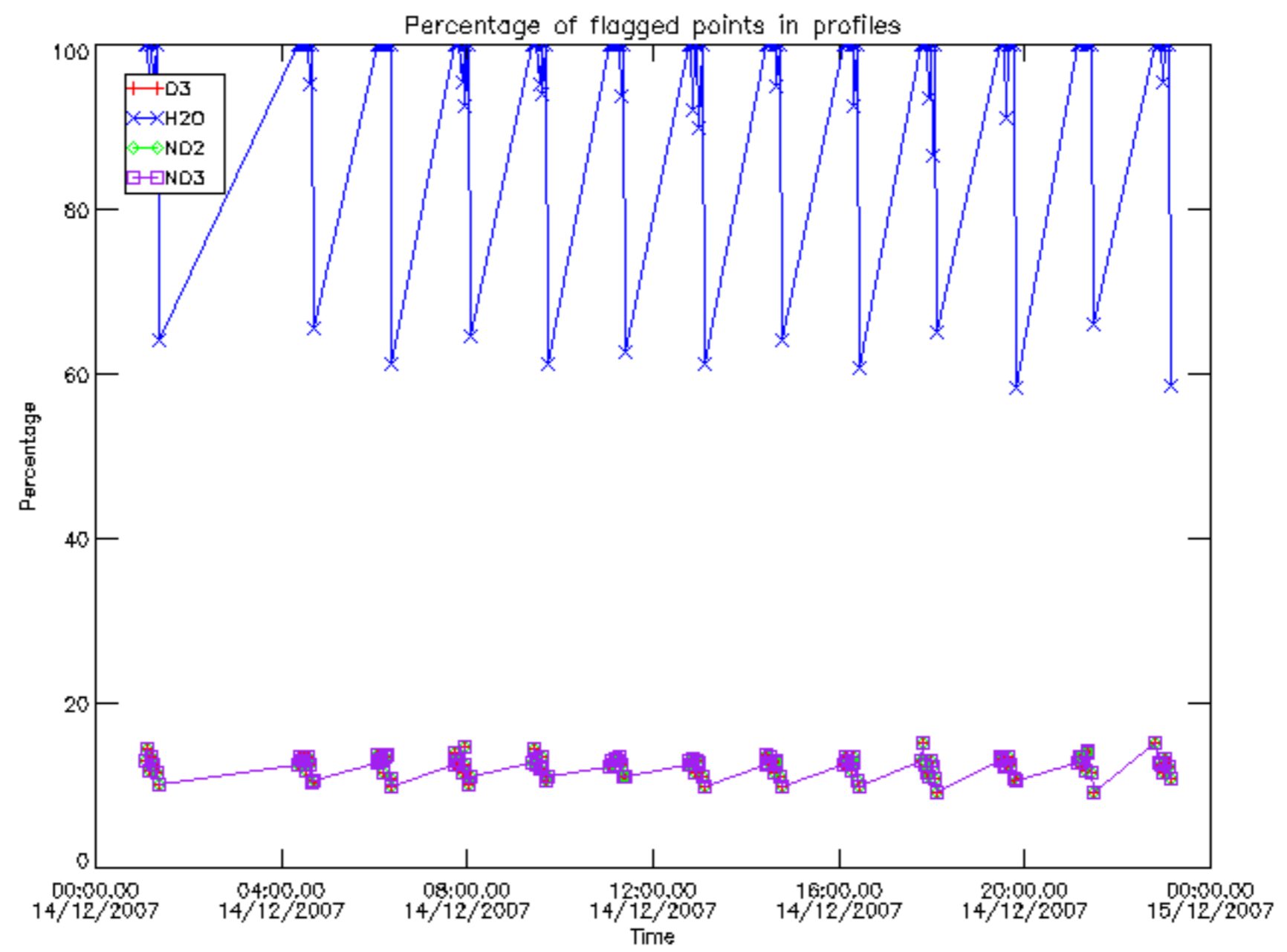
The colorbar represents the latitude.



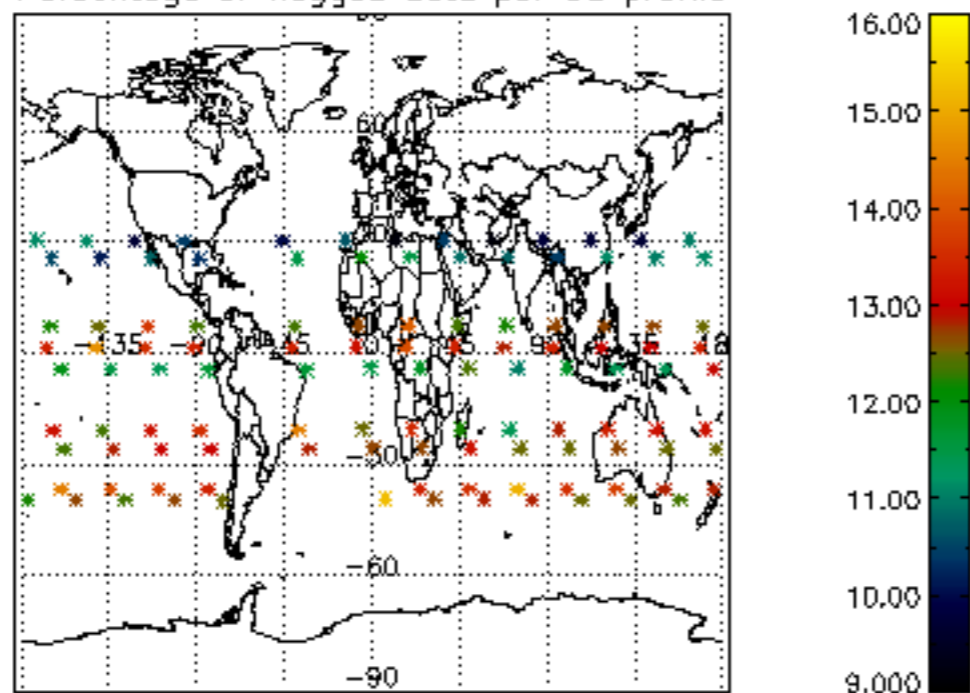
6. Auxiliary Data Files used for the production reported in section 2

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.

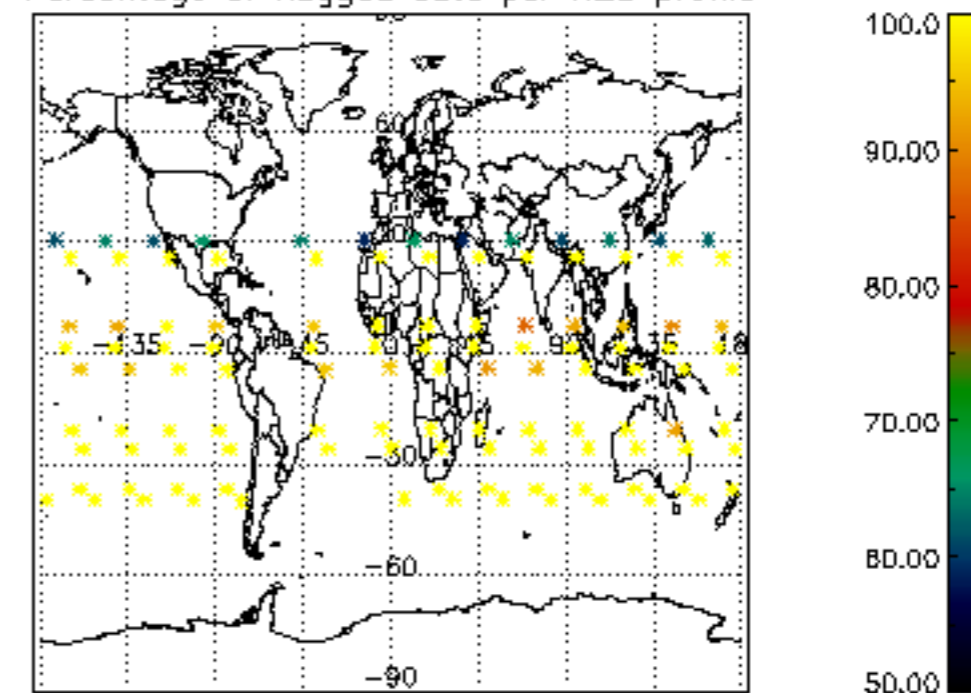
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	14-DEC-2007 00:02:16
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	14-DEC-2007 00:02:16
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	14-DEC-2007 00:02:16



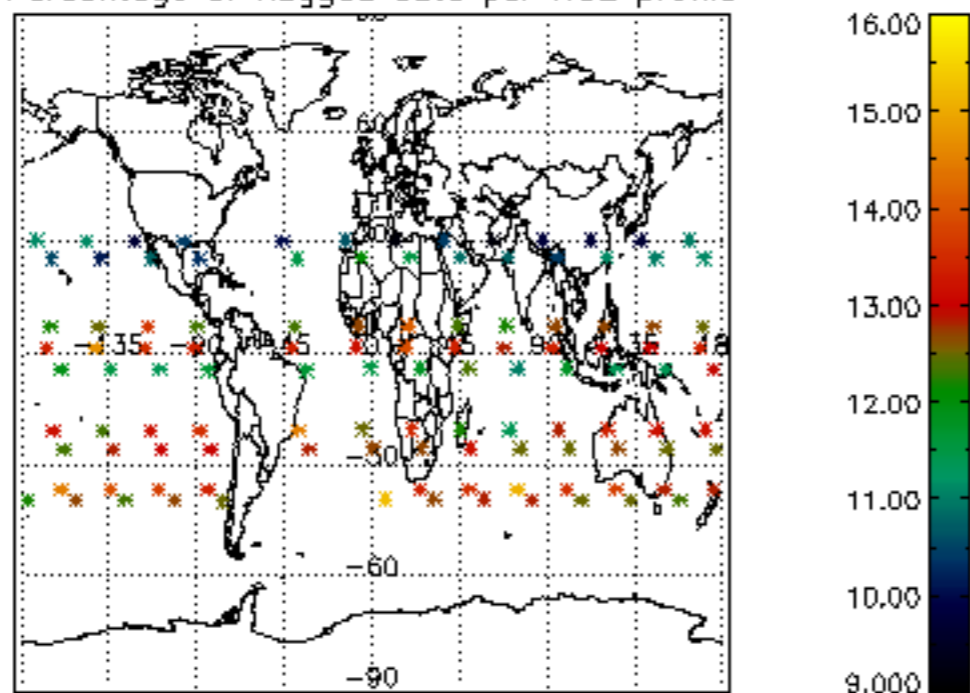
Percentage of flagged data per D3 profile



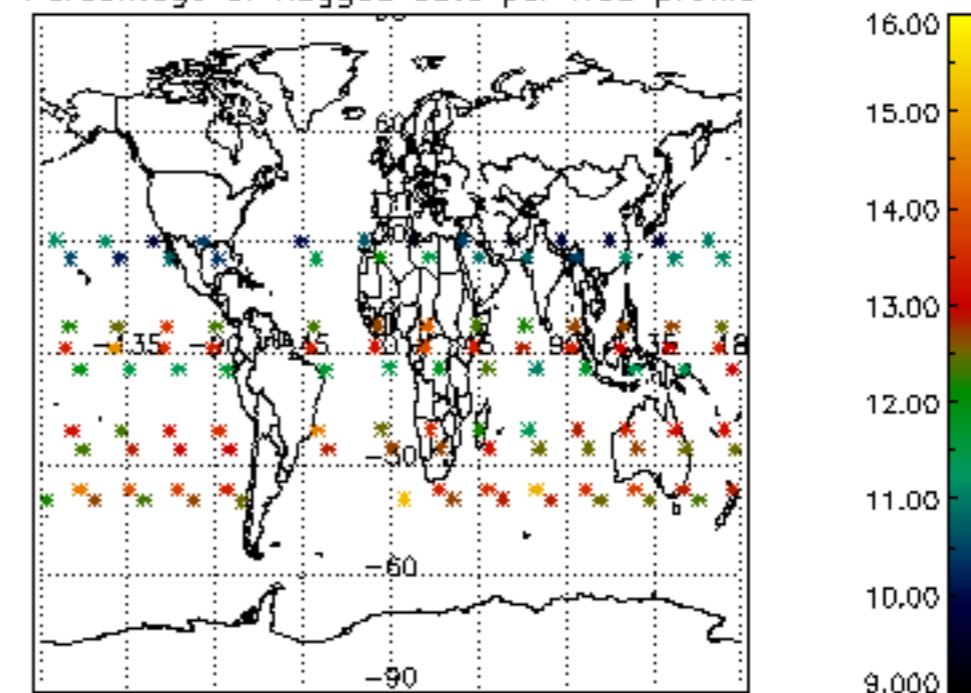
Percentage of flagged data per H2O profile

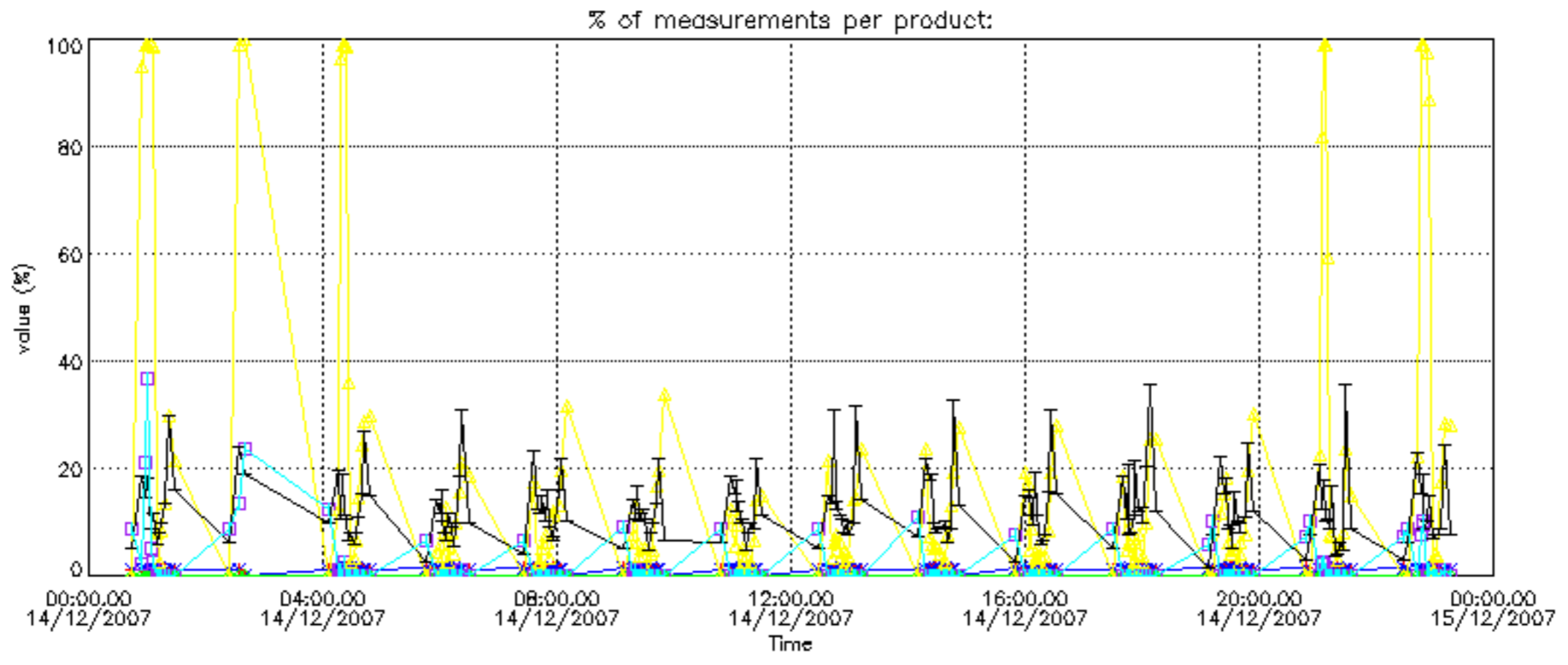


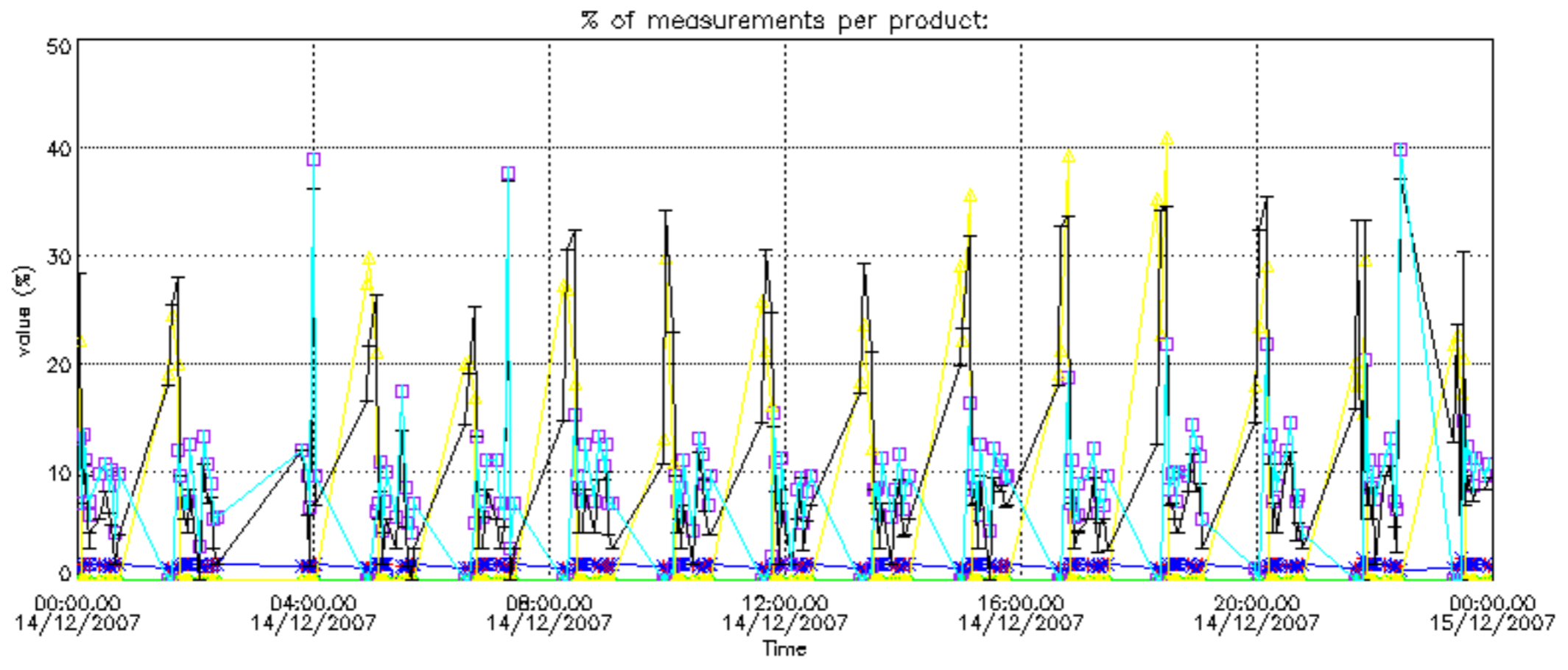
Percentage of flagged data per NO2 profile



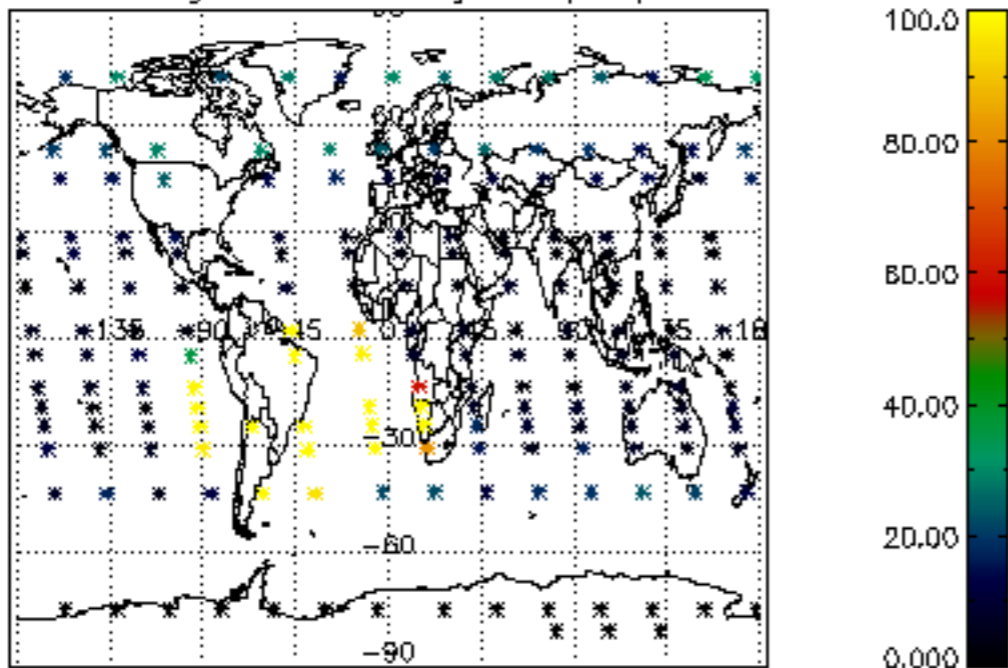
Percentage of flagged data per NO3 profile



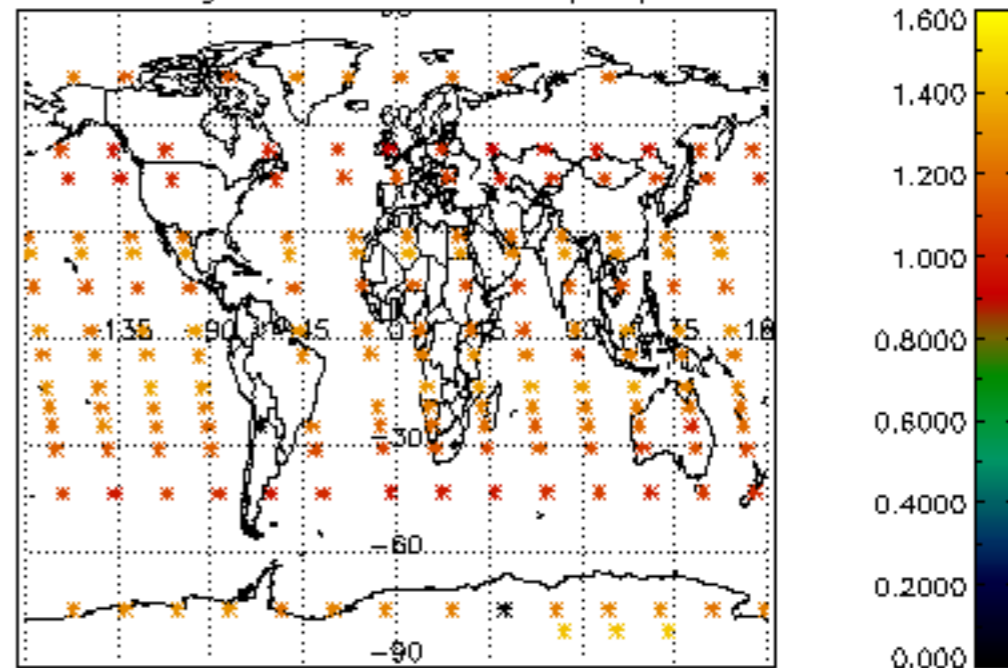




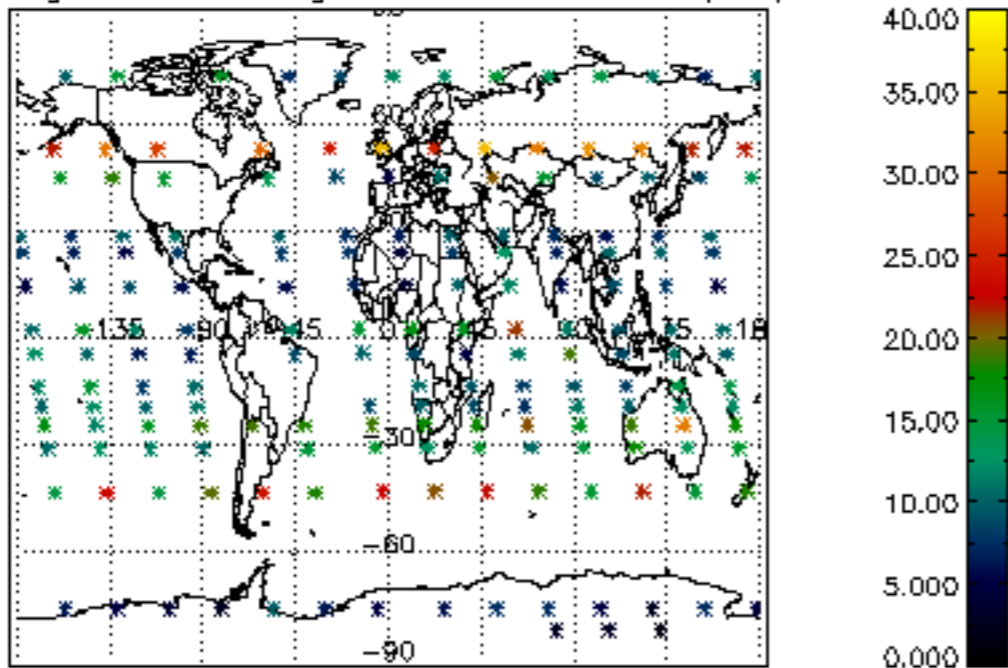
Percentage of cosmic ray hits per profile



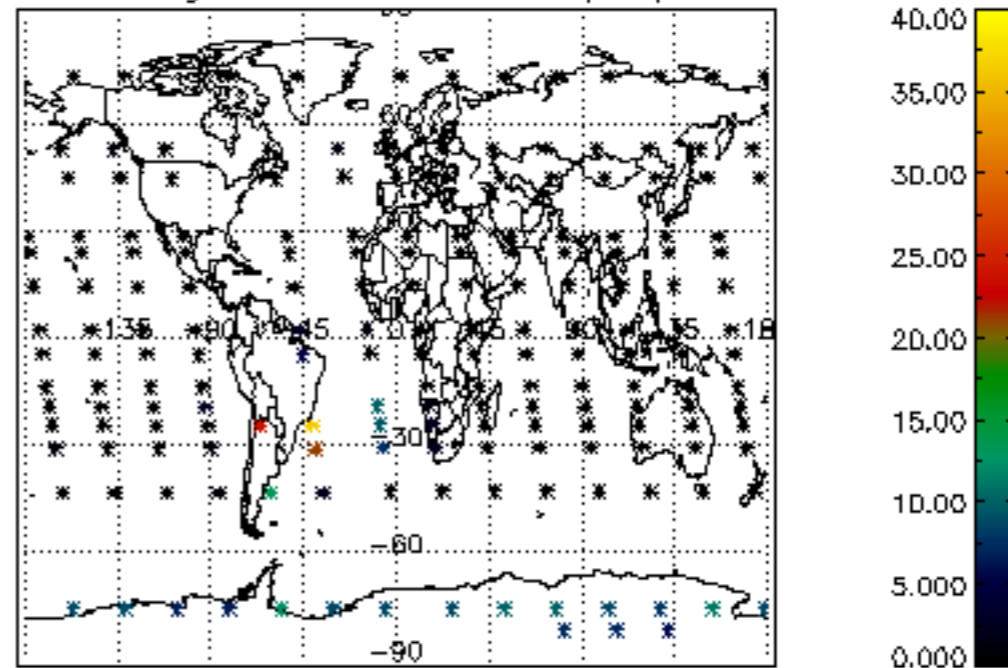
Percentage of datation errors per profile



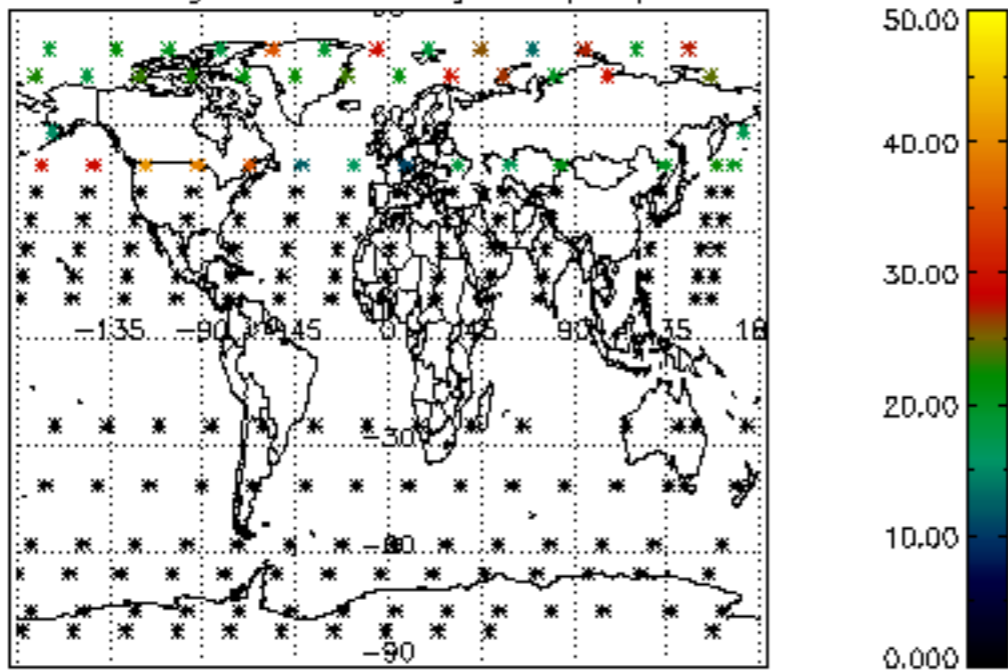
Percentage of star falling outside central band per profile



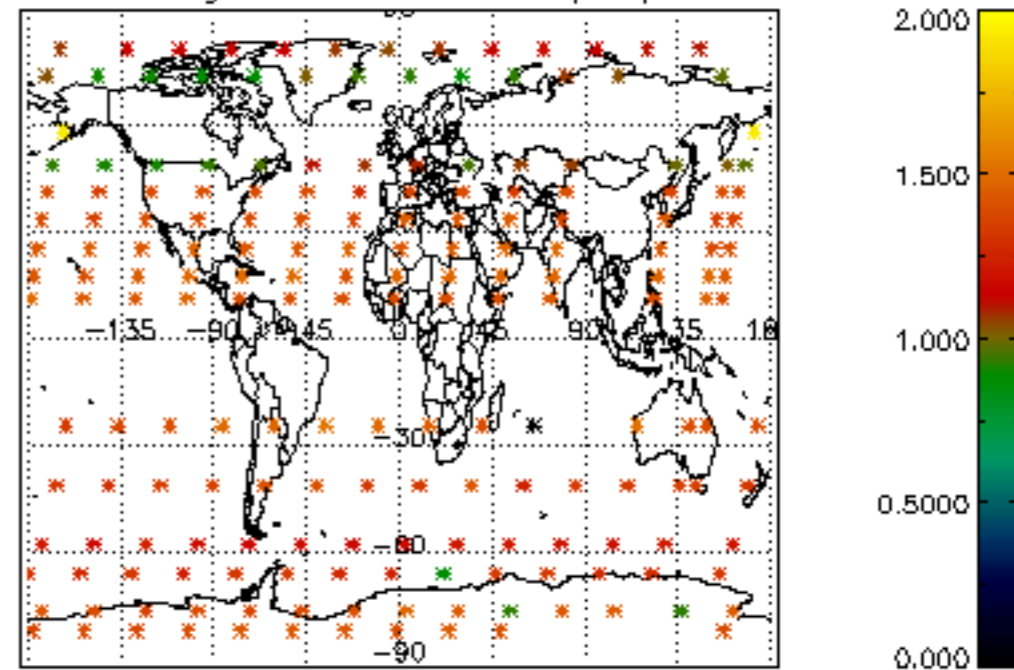
Percentage of saturation errors per profile



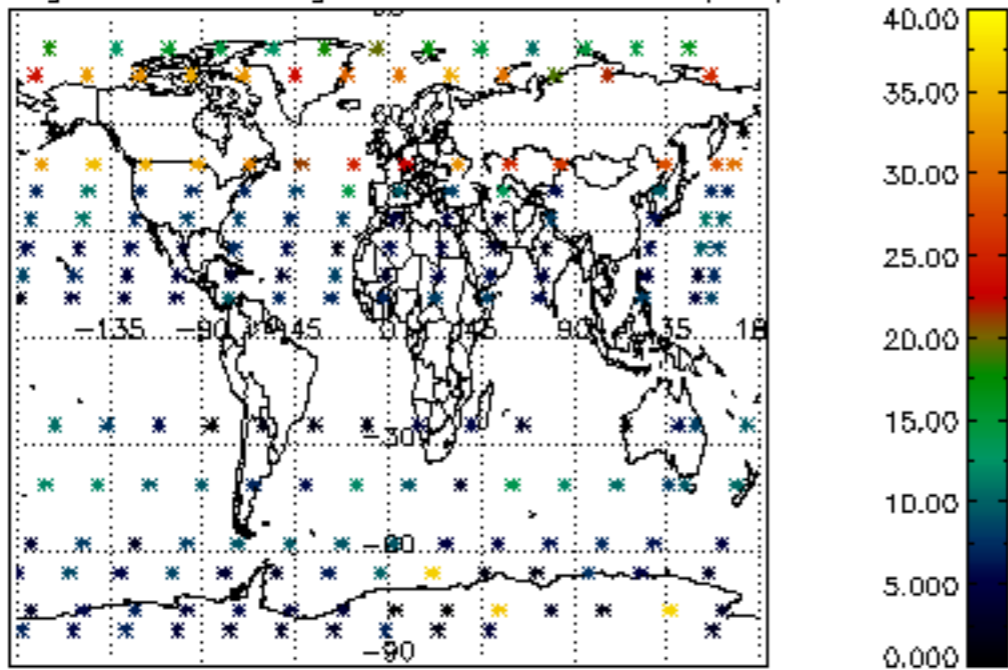
Percentage of cosmic ray hits per profile



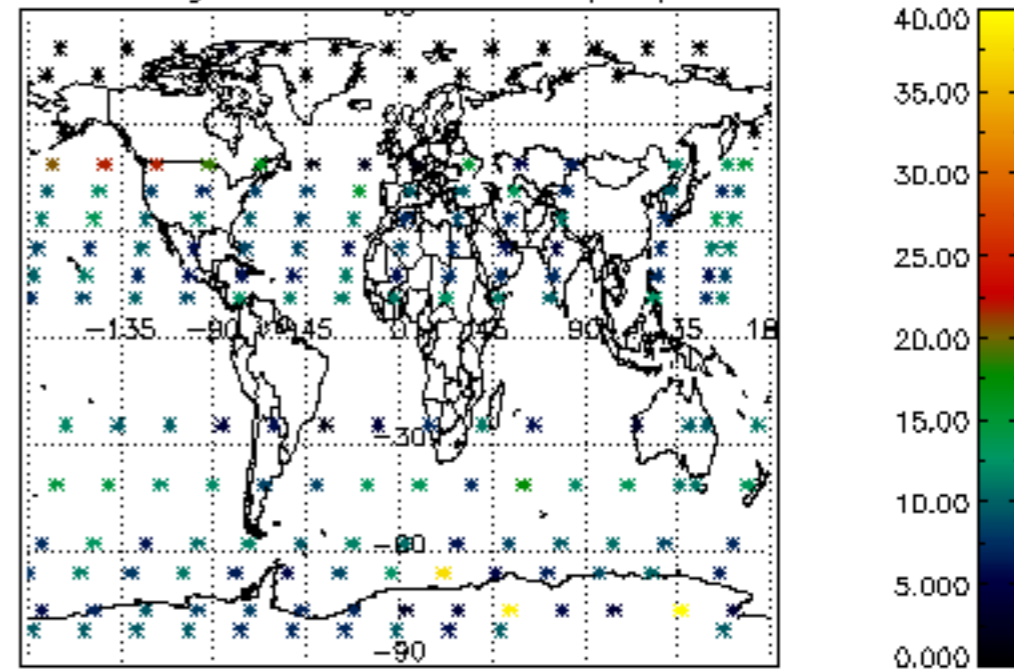
Percentage of datation errors per profile

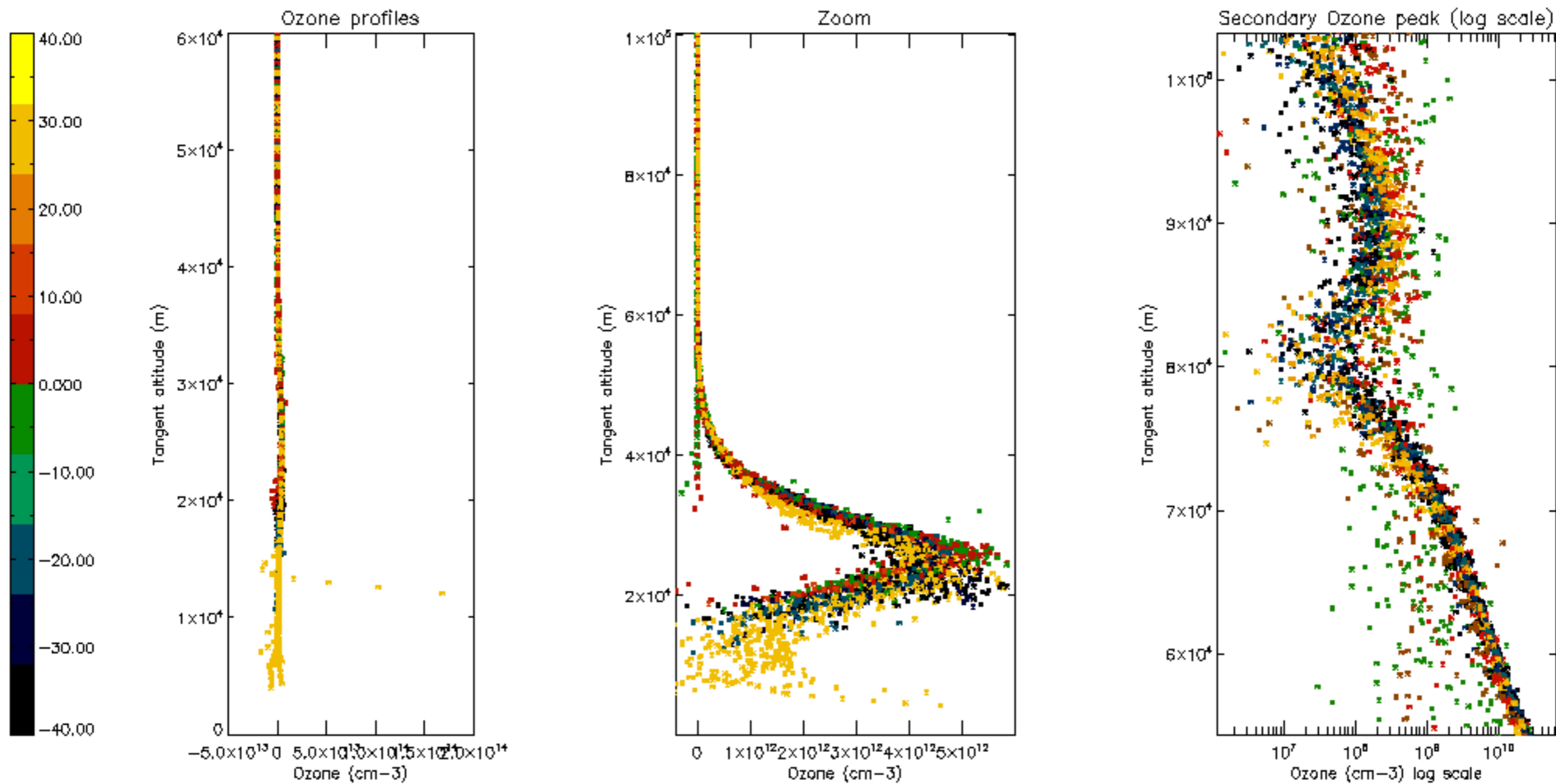


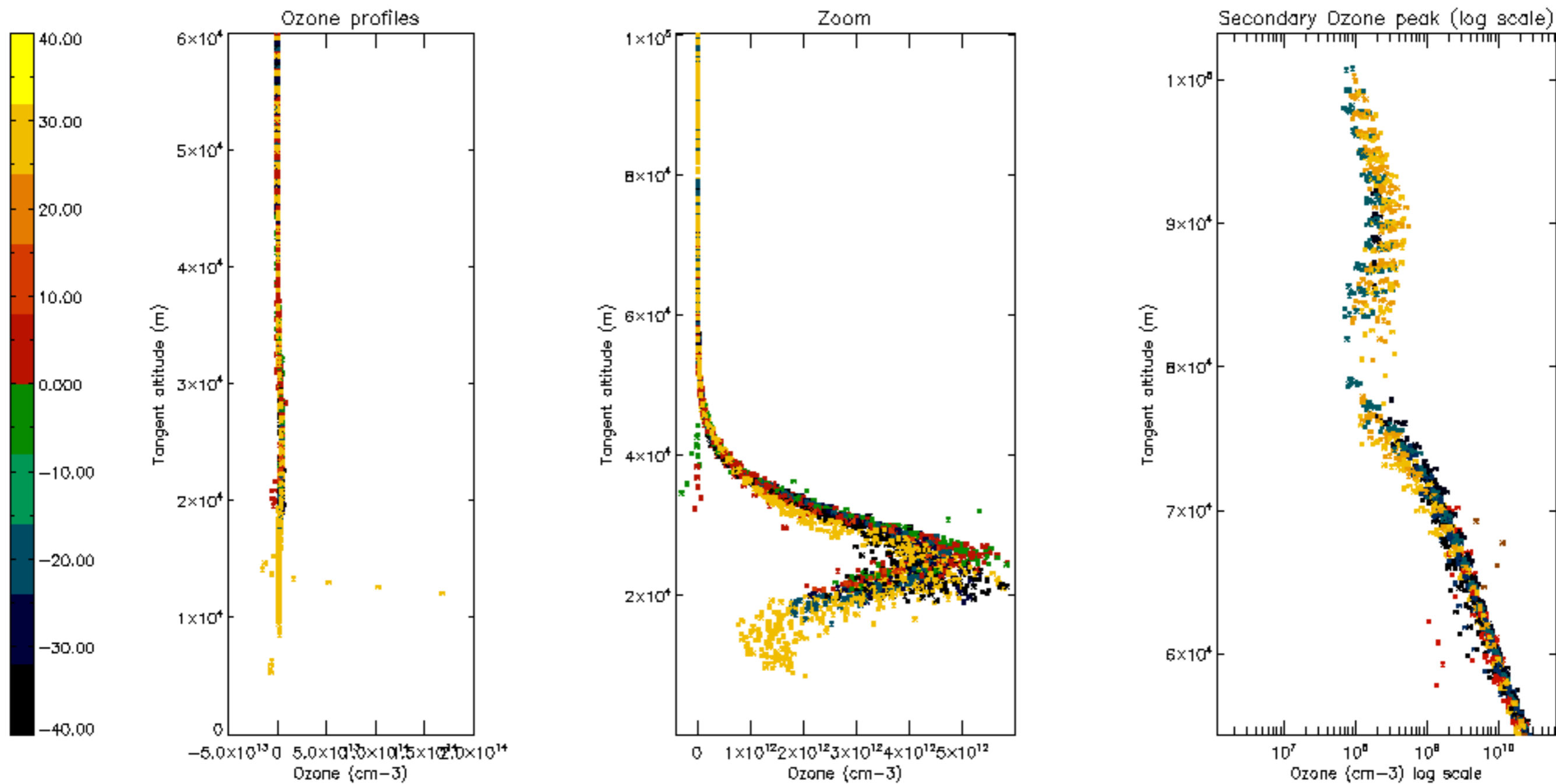
Percentage of star falling outside central band per profile

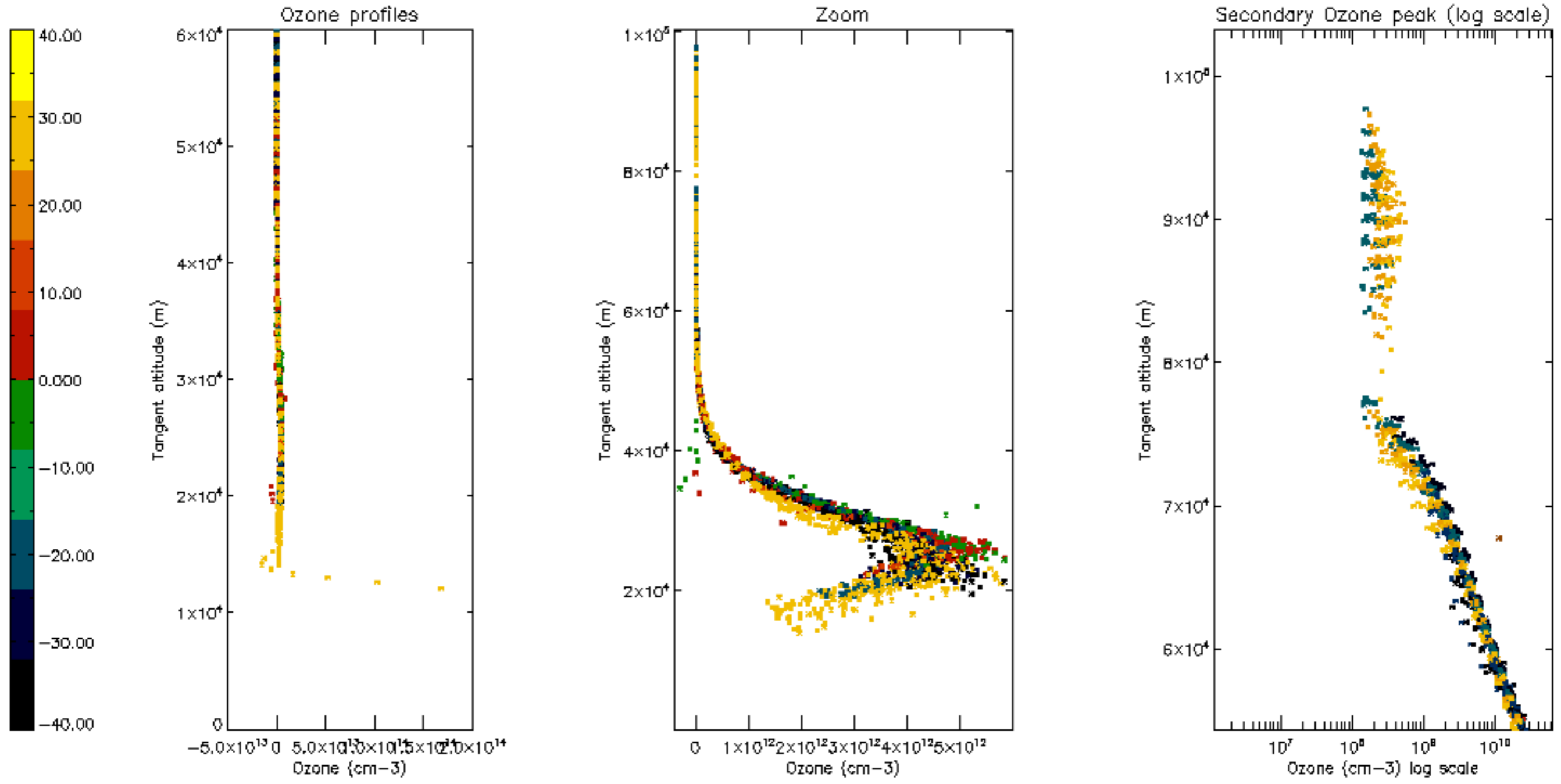


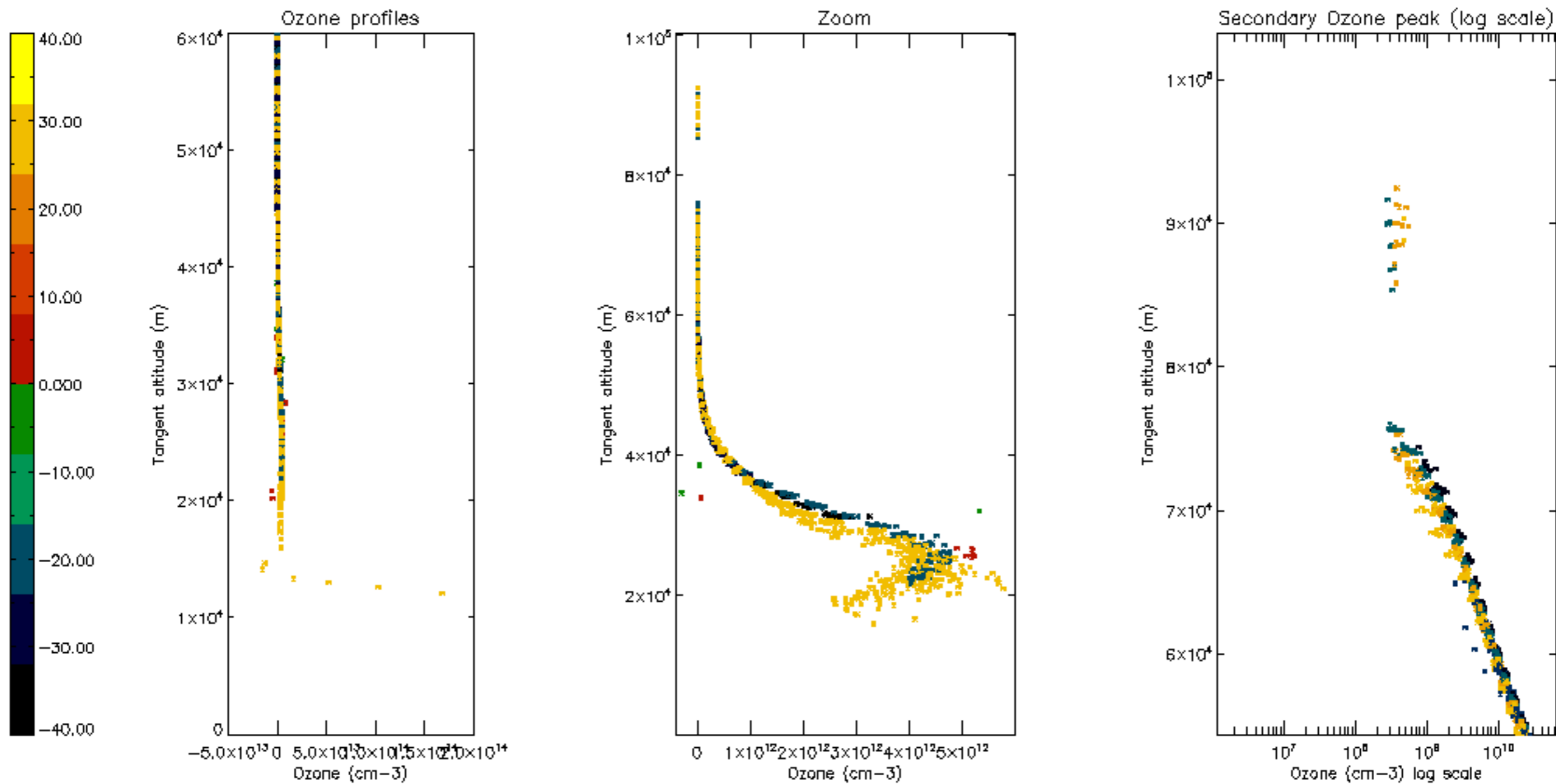
Percentage of saturation errors per profile

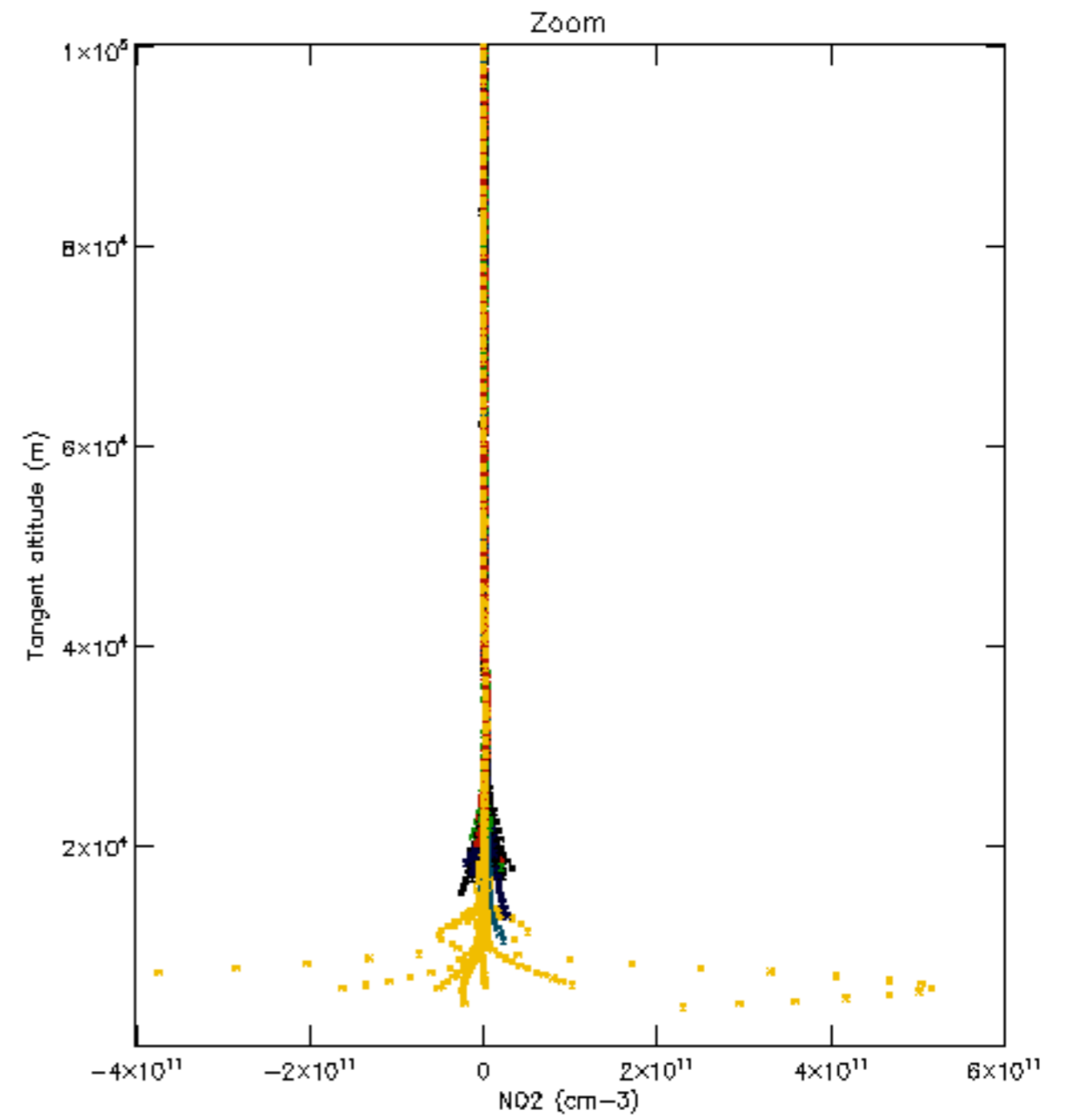
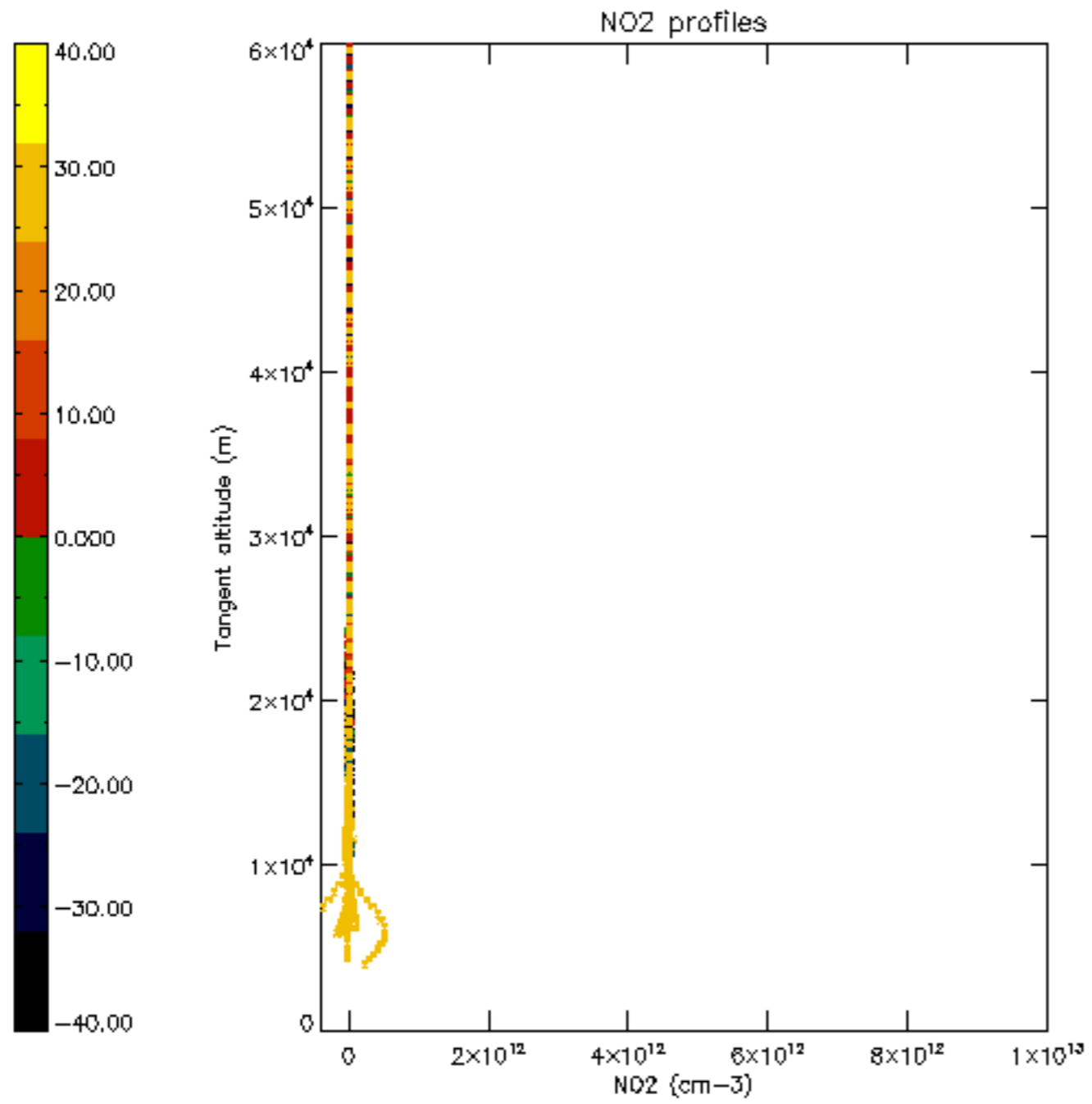


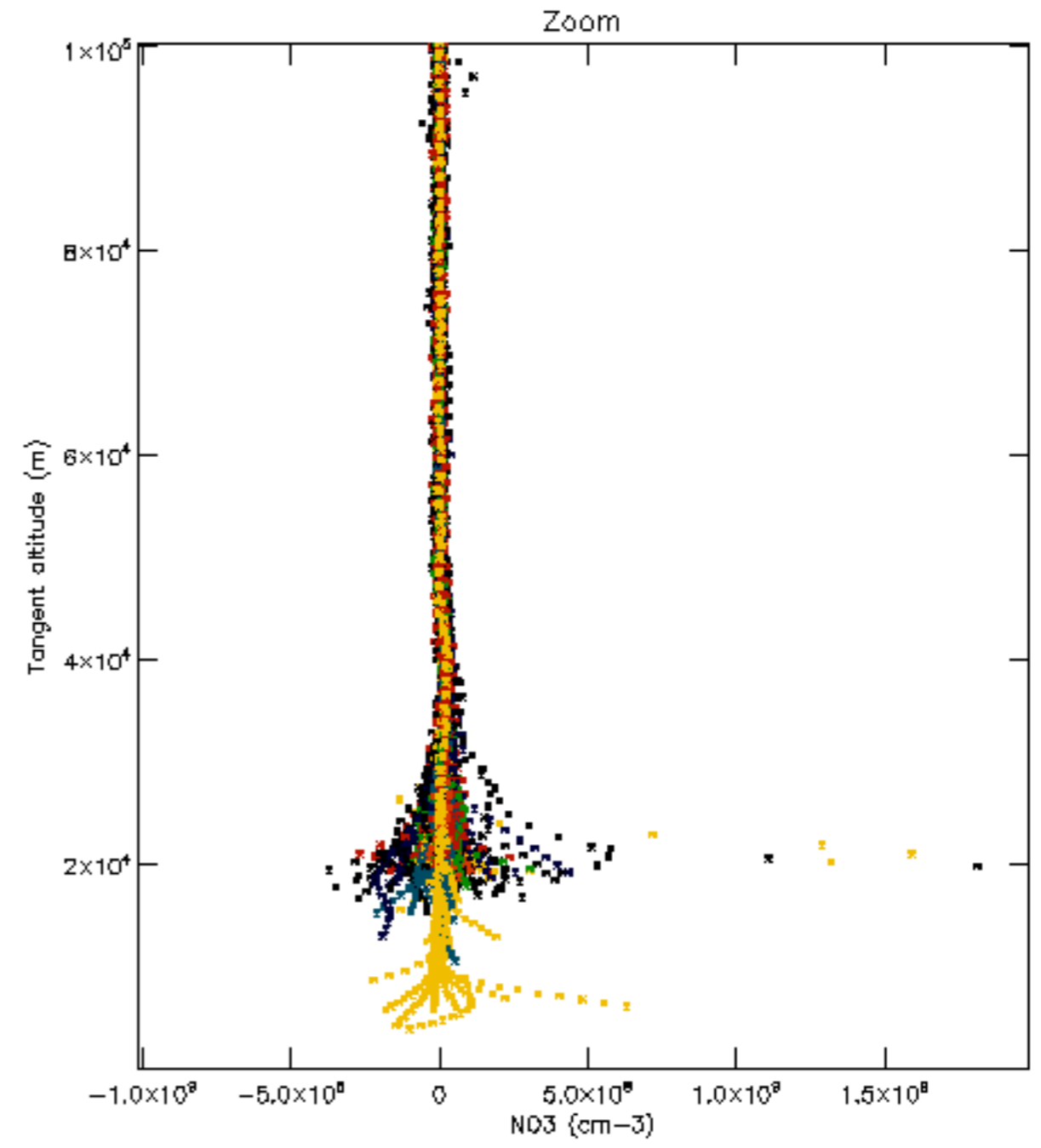
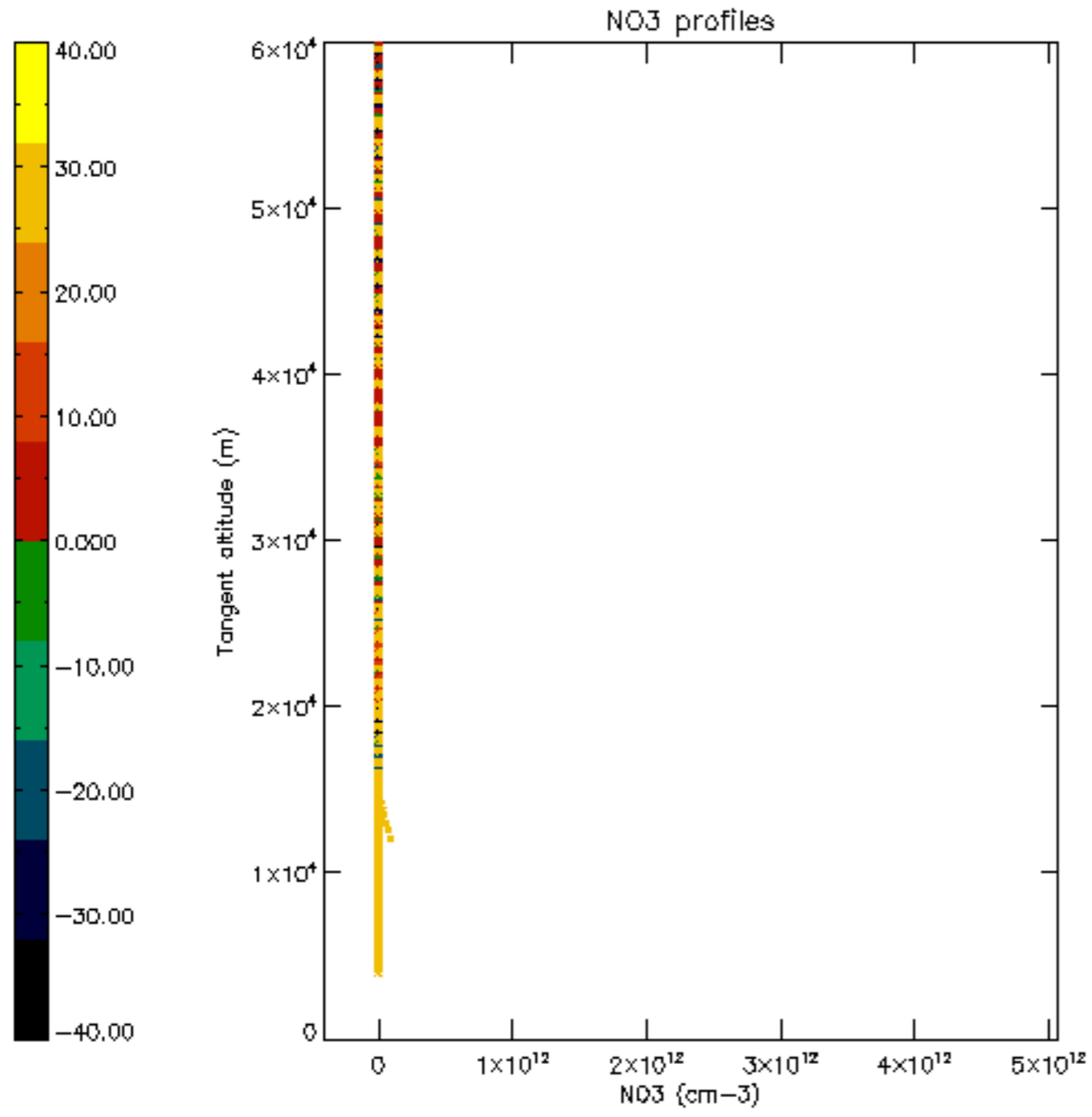


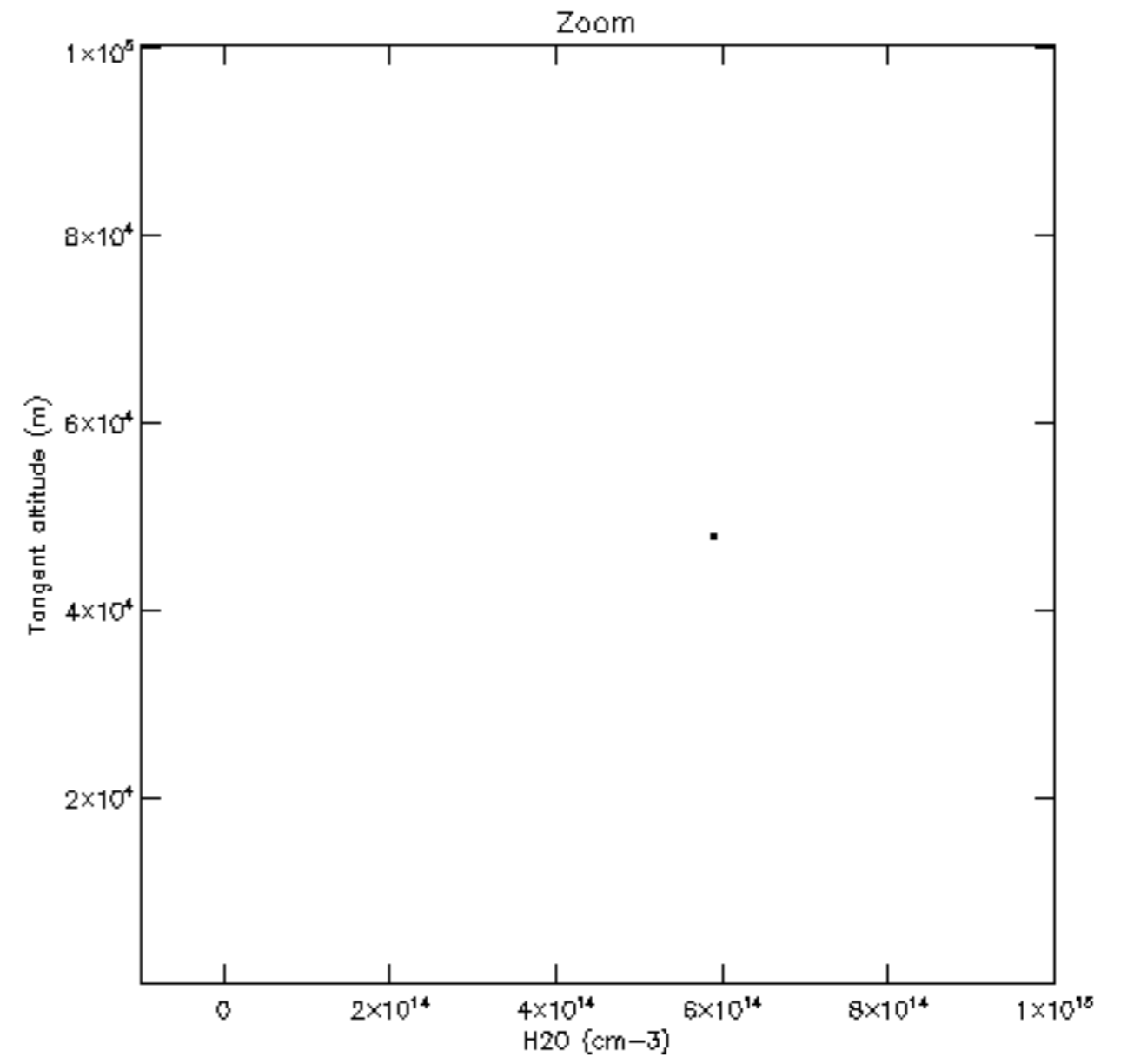
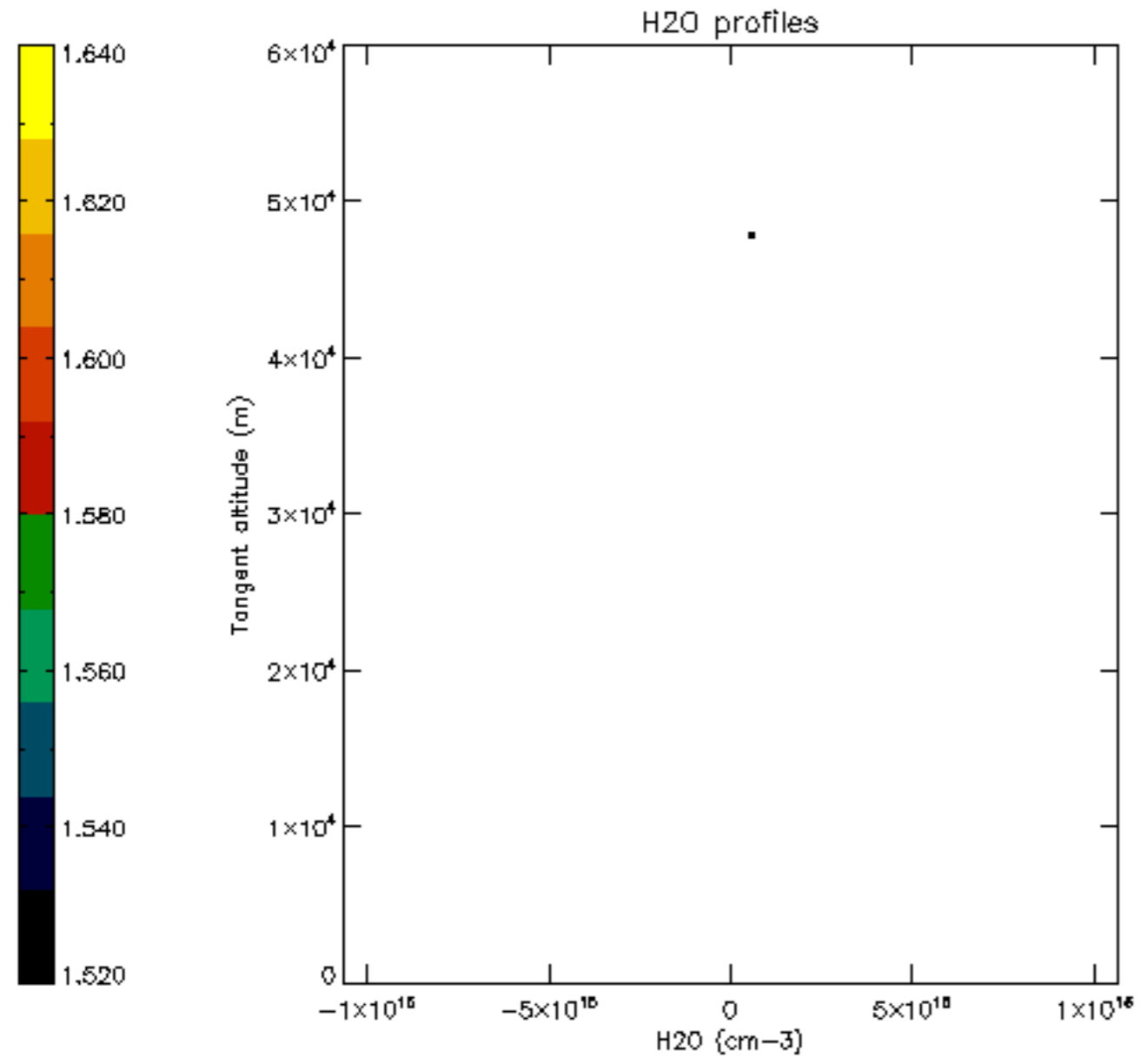


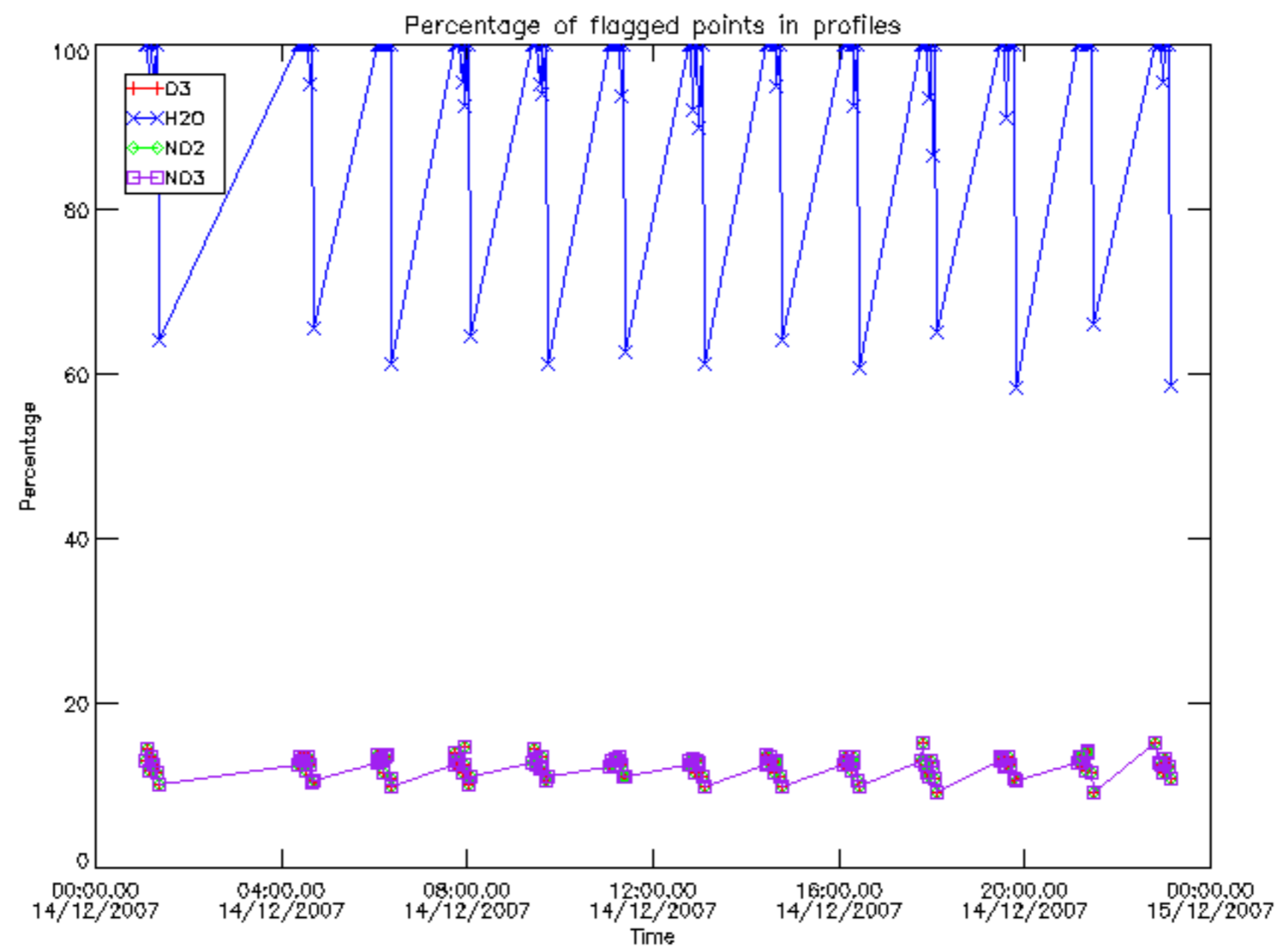




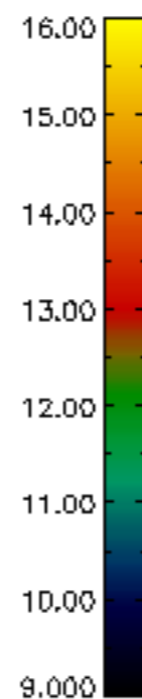
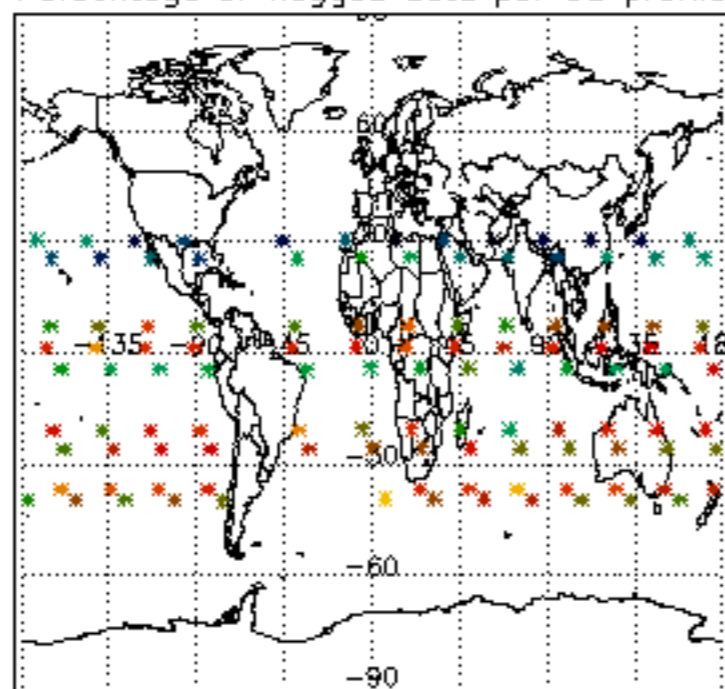




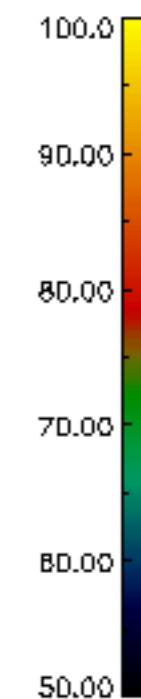
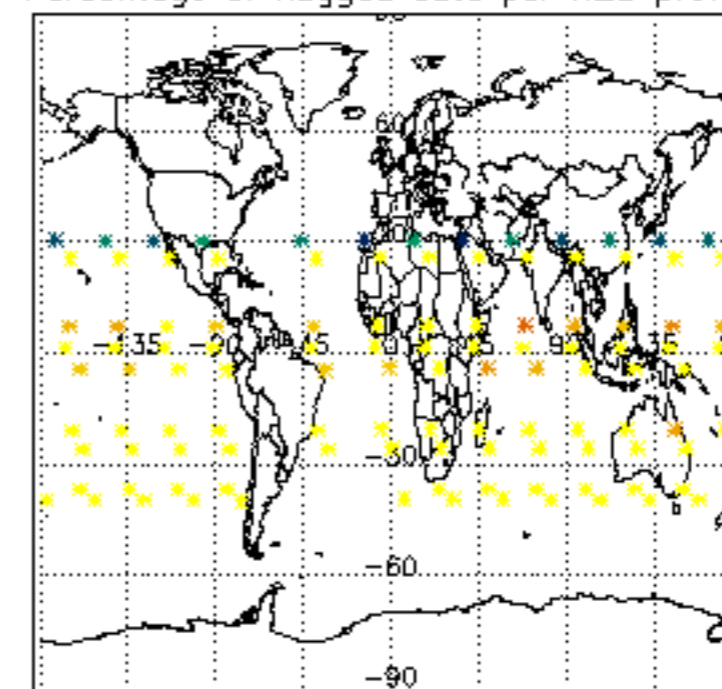




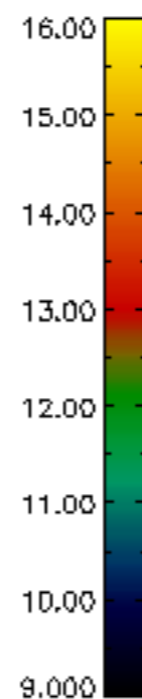
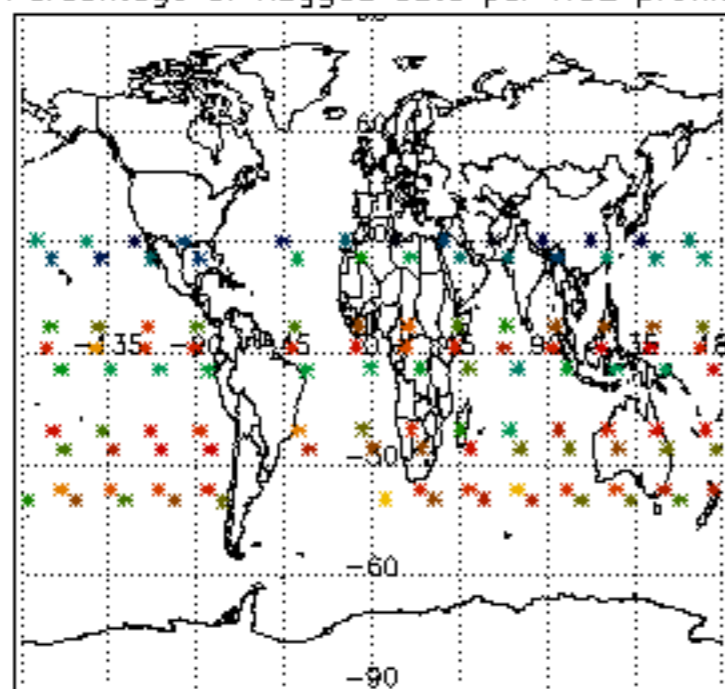
Percentage of flagged data per D3 profile



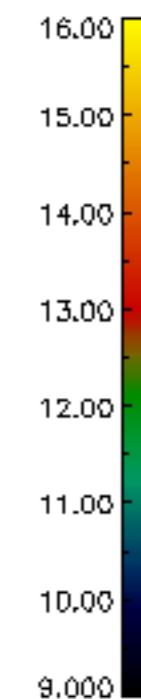
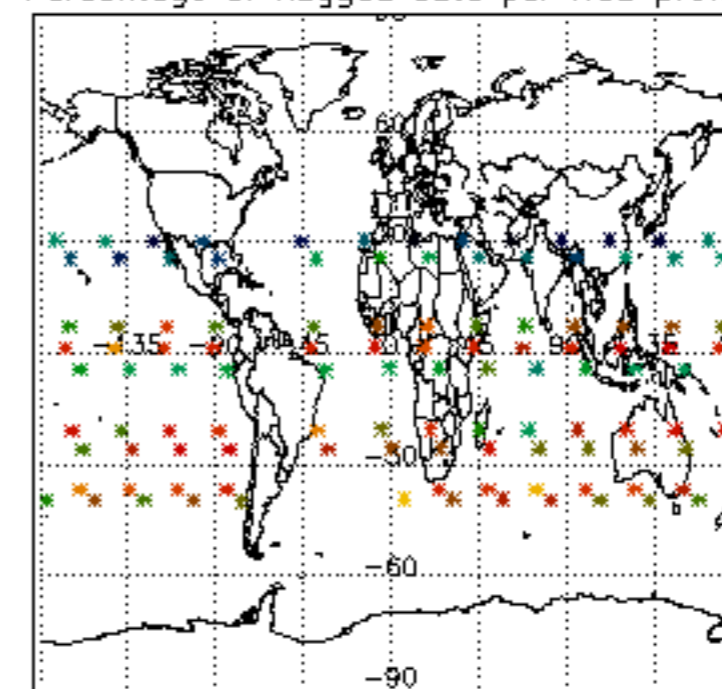
Percentage of flagged data per H2O profile

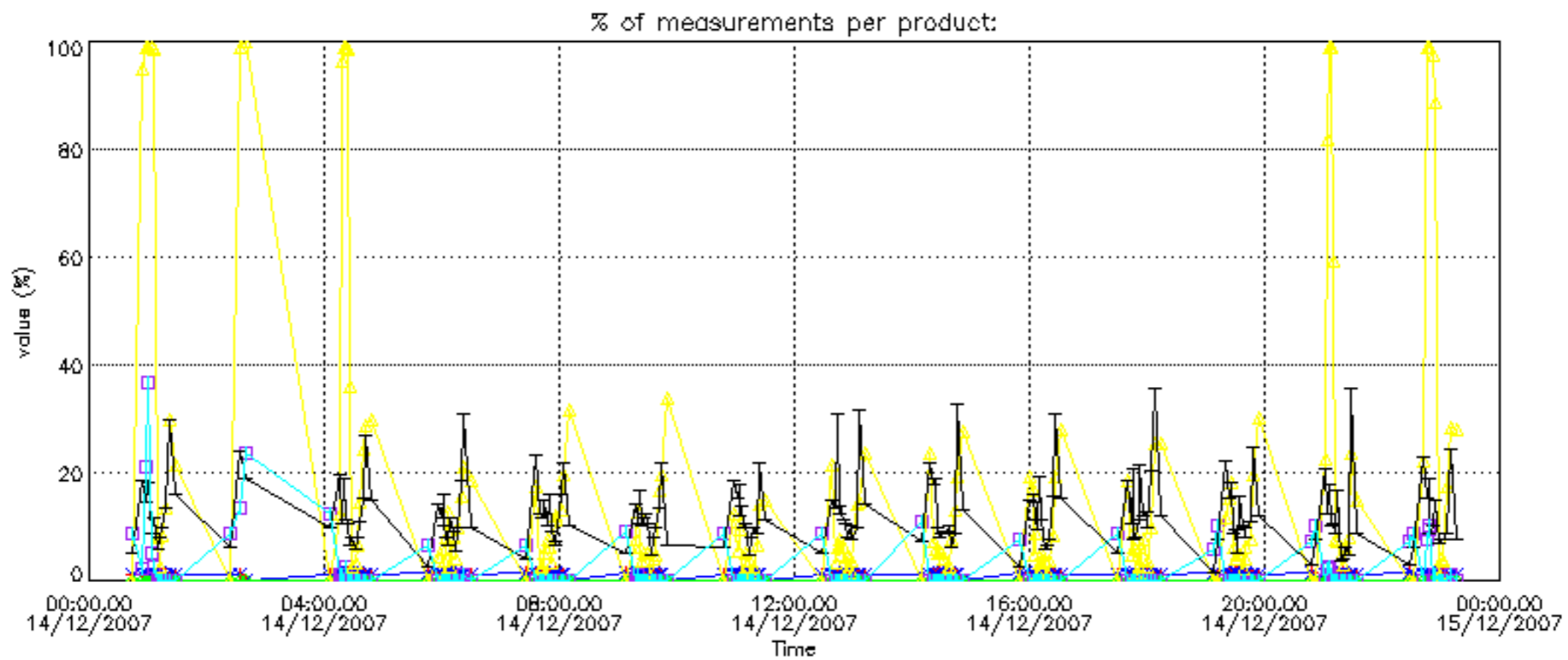


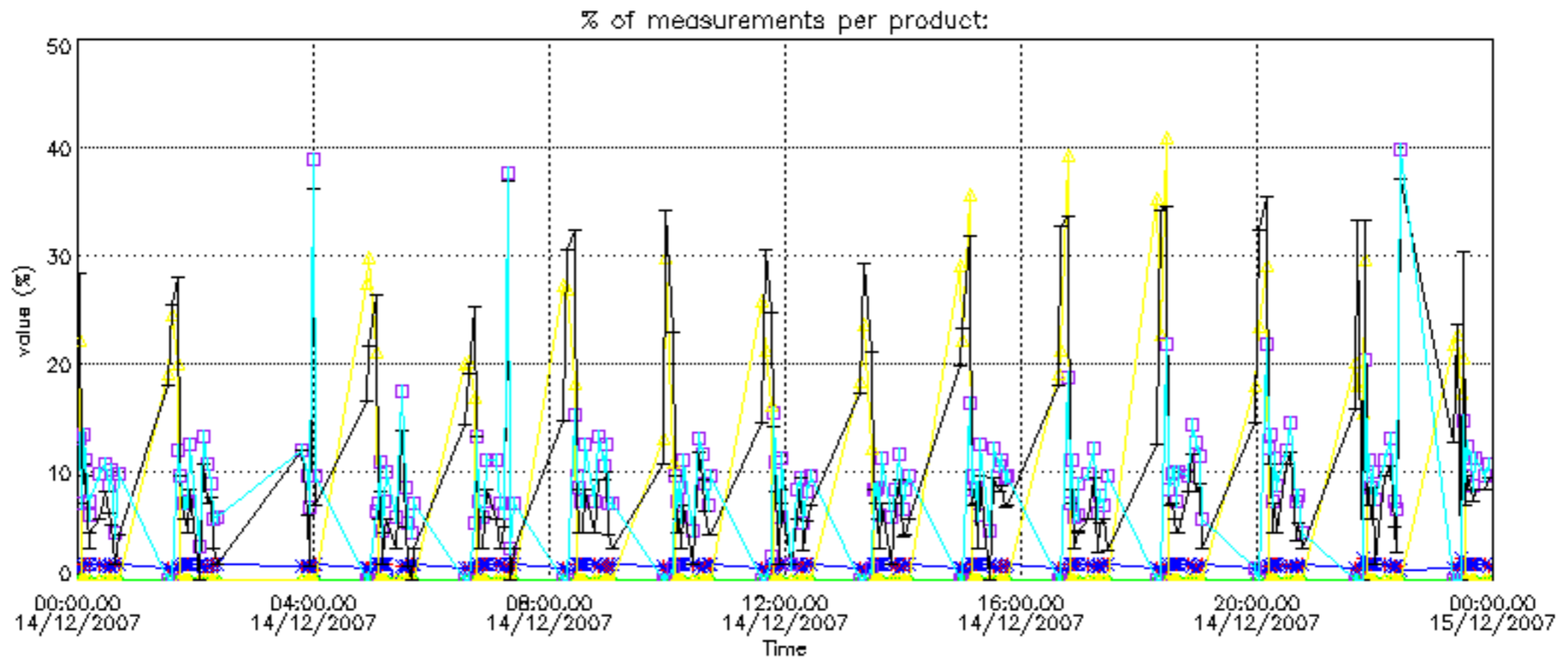
Percentage of flagged data per NO2 profile



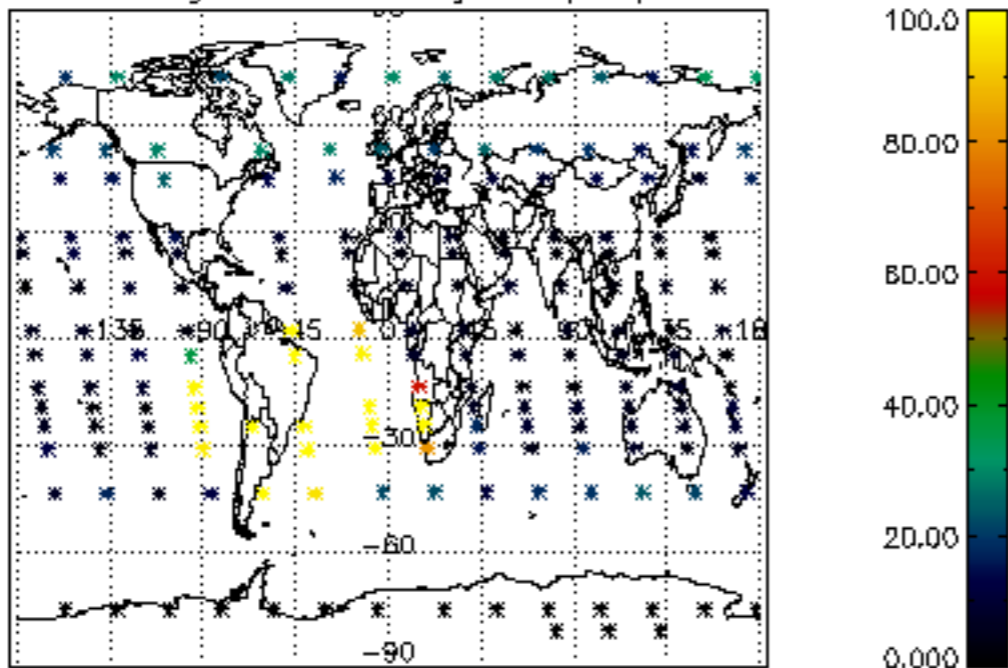
Percentage of flagged data per NO3 profile



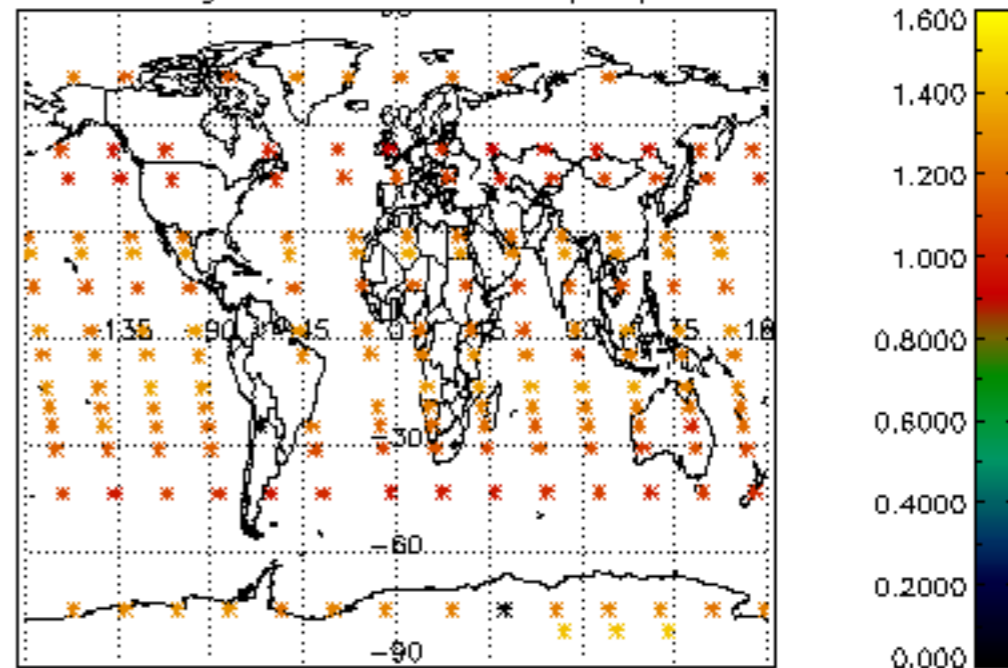




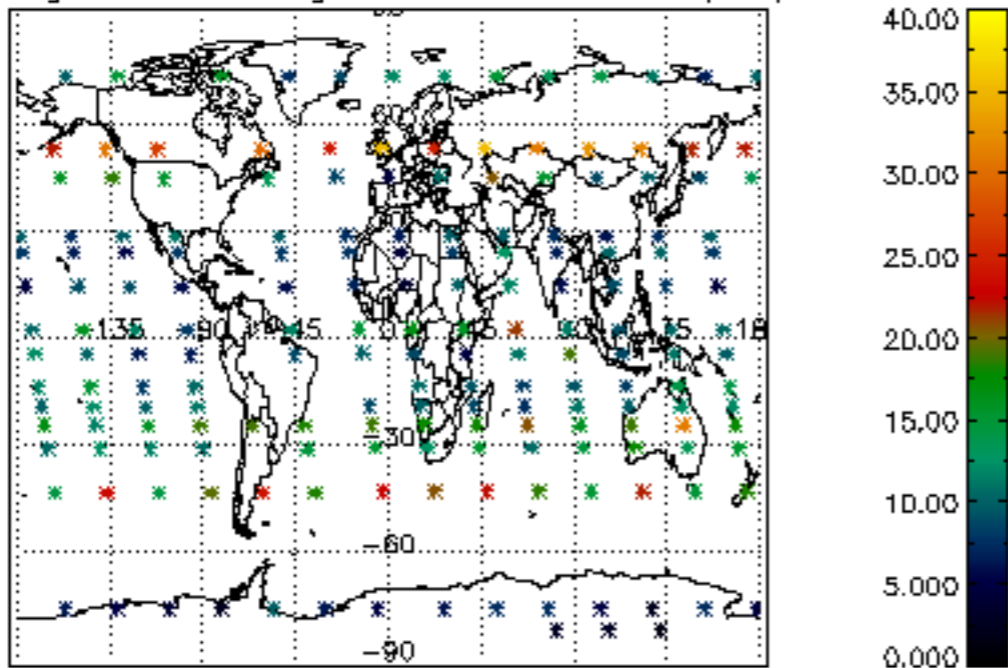
Percentage of cosmic ray hits per profile



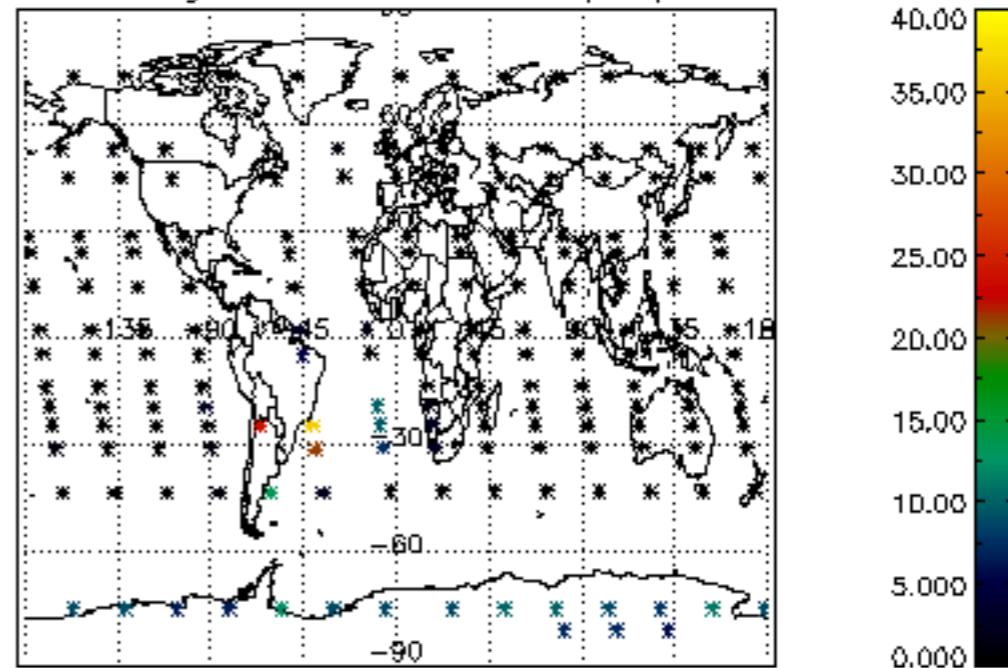
Percentage of datation errors per profile



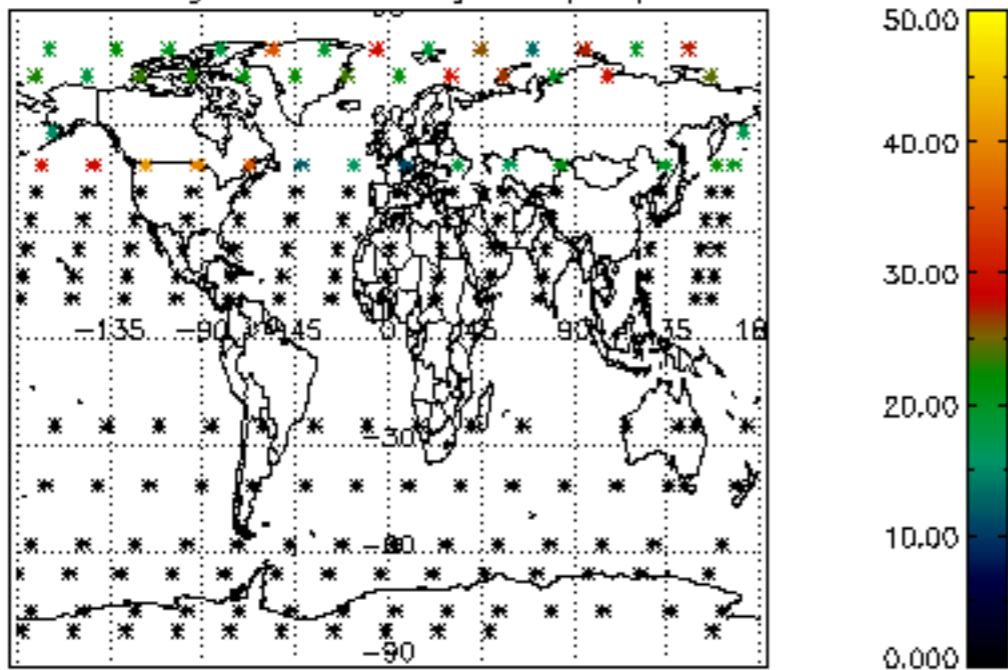
Percentage of star falling outside central band per profile



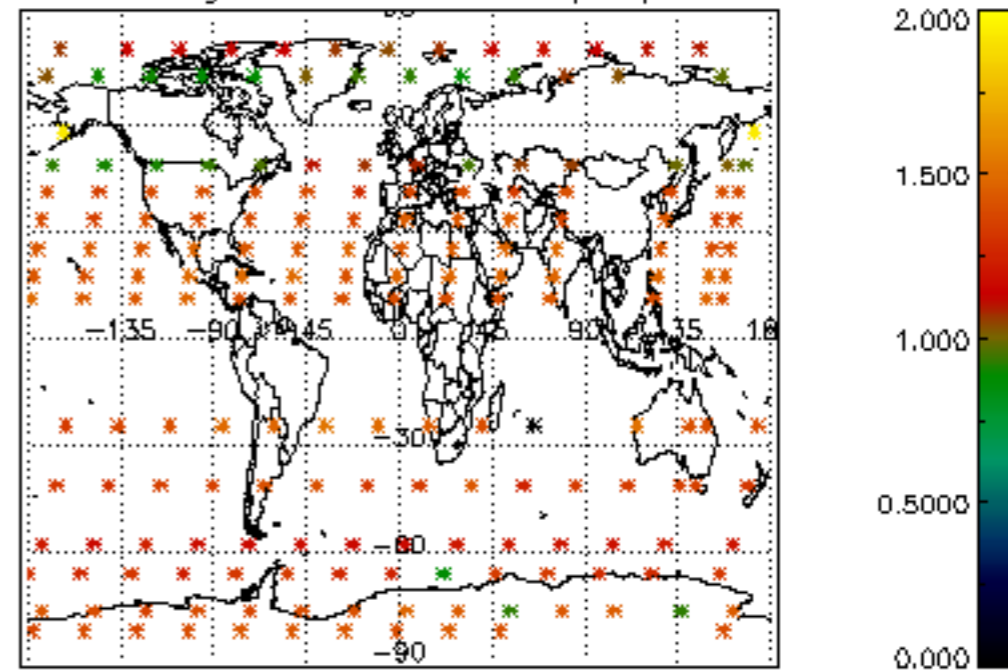
Percentage of saturation errors per profile



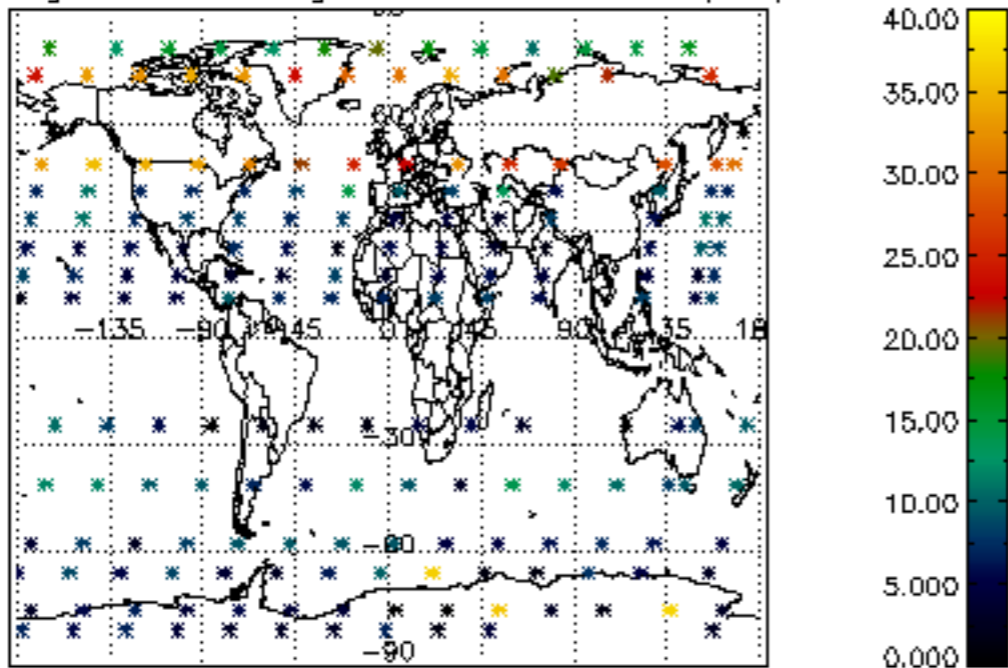
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

