

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	18APR2013 10:44:51
Data source version	GOMOS/6.01
Start time of products	04-09-2005 (04SEP2005 00:00:00)
Stop time of products	05-09-2005 (05SEP2005 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	174
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

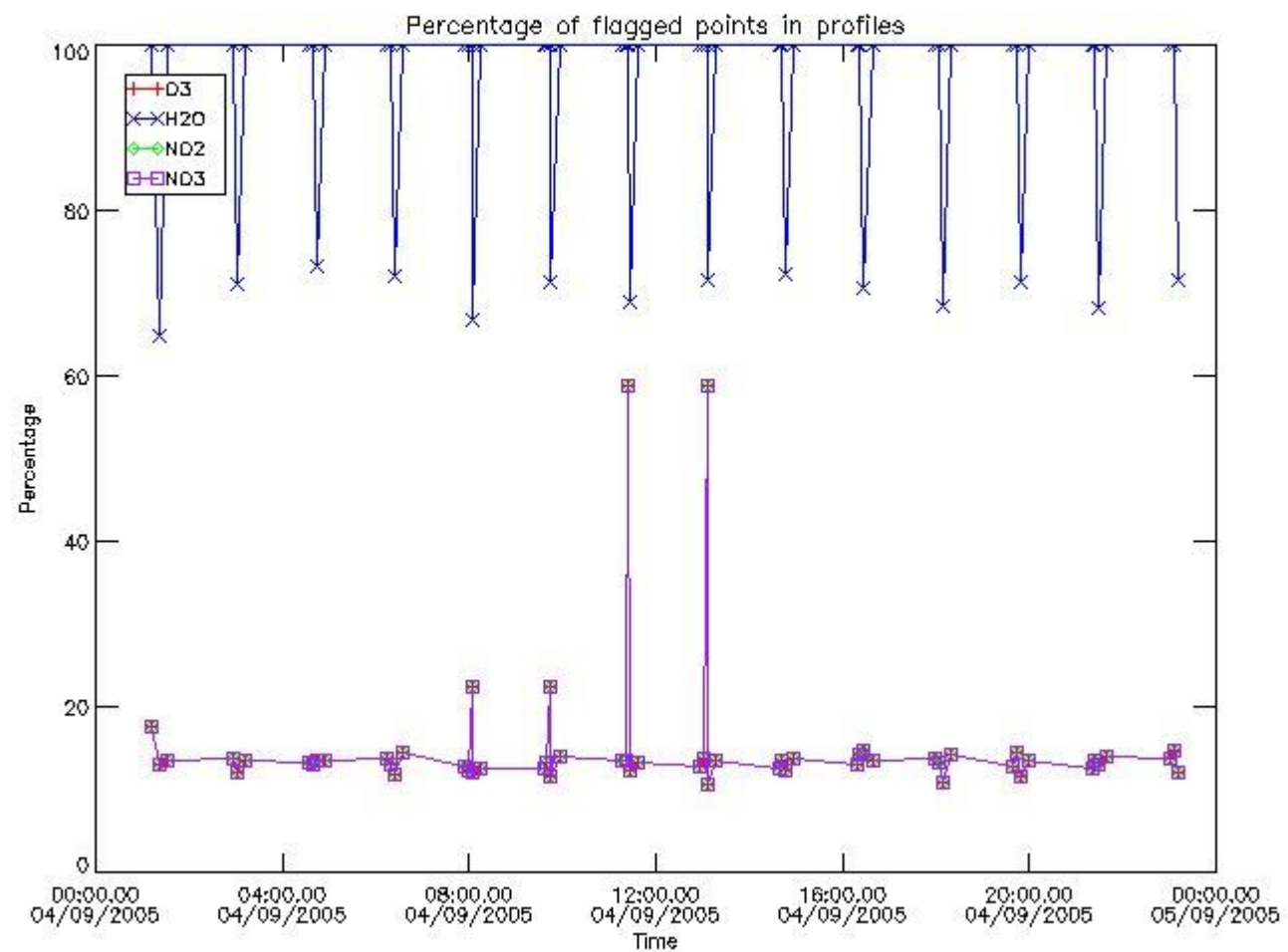
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20050904_011252_000000352040_00274_18364_6450.N1	04-SEP-2005 01:12:52	Dark	35.000	132	15Rho Pup	2.8030	6900.0	70	18364	No
2	GOM_NL__2PRFIN20050904_012214_000000432040_00274_18364_6451.N1	04-SEP-2005 01:22:14	Dark	43.000	41	Eps Car	1.8600	4100.0	86	18364	No
3	GOM_NL__2PRFIN20050904_013244_000000382040_00275_18365_6450.N1	04-SEP-2005 01:32:44	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	18365	No
4	GOM_NL__2PRFIN20050904_013819_000000382040_00275_18365_6451.N1	04-SEP-2005 01:38:19	Straylight	37.500	148	Alp Tuc	2.8780	4100.0	75	18365	No
5	GOM_NL__2PRFIN20050904_014159_000000412040_00275_18365_6452.N1	04-SEP-2005 01:41:59	Straylight	41.000	31	Alp Gru	1.7340	15200.	82	18365	No
6	GOM_NL__2PRFIN20050904_014448_000000402040_00275_18365_6453.N1	04-SEP-2005 01:44:48	Straylight	39.500	172	Gam Gru	3.0030	13100.	79	18365	No
7	GOM_NL__2PRFIN20050904_020515_000000382040_00275_18365_6454.N1	04-SEP-2005 02:05:15	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	18365	No
8	GOM_NL__2PRFIN20050904_020711_000000372040_00275_18365_6455.N1	04-SEP-2005 02:07:11	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	18365	No
9	GOM_NL__2PRFIN20050904_020825_000000372040_00275_18365_6456.N1	04-SEP-2005 02:08:25	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	18365	No
10	GOM_NL__2PRFIN20050904_022059_000000372040_00275_18365_6457.N1	04-SEP-2005 02:20:59	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	18365	No
11	GOM_NL__2PRFIN20050904_022735_000000362040_00275_18365_6458.N1	04-SEP-2005 02:27:35	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	18365	No
12	GOM_NL__2PRFIN20050904_022858_000000352040_00275_18365_6459.N1	04-SEP-2005 02:28:58	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	18365	No
13	GOM_NL__2PRFIN20050904_025745_000000412040_00275_18365_6460.N1	04-SEP-2005 02:57:45	Dark	40.500	70	Zet Pup	2.2460	39000.	81	18365	No
14	GOM_NL__2PRFIN20050904_030250_000000422040_00275_18365_6461.N1	04-SEP-2005 03:02:50	Dark	42.000	41	Eps Car	1.8600	4100.0	84	18365	No
15	GOM_NL__2PRFIN20050904_031320_000000382040_00276_18366_6450.N1	04-SEP-2005 03:13:20	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	18366	No
16	GOM_NL__2PRFIN20050904_031855_000000372040_00276_18366_6451.N1	04-SEP-2005 03:18:55	Straylight	36.500	148	Alp Tuc	2.8780	4100.0	73	18366	No
17	GOM_NL__2PRFIN20050904_032235_000000422040_00276_18366_6452.N1	04-SEP-2005 03:22:35	Straylight	41.500	31	Alp Gru	1.7340	15200.	83	18366	No
18	GOM_NL__2PRFIN20050904_032524_000000372040_00276_18366_6453.N1	04-SEP-2005 03:25:24	Straylight	37.000	172	Gam Gru	3.0030	13100.	74	18366	No
19	GOM_NL__2PRFIN20050904_034551_000000342040_00276_18366_6454.N1	04-SEP-2005 03:45:51	Bright	34.000	92	53Eps Cyg	2.5000	4500.0	68	18366	No
20	GOM_NL__2PRFIN20050904_034747_000000372040_00276_18366_6455.N1	04-SEP-2005 03:47:47	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	18366	No
21	GOM_NL__2PRFIN20050904_034901_000000362040_00276_18366_6456.N1	04-SEP-2005 03:49:01	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	18366	No
22	GOM_NL__2PRFIN20050904_040135_000000352040_00276_18366_6457.N1	04-SEP-2005 04:01:35	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	18366	No
23	GOM_NL__2PRFIN20050904_040811_000000352040_00276_18366_6458.N1	04-SEP-2005 04:08:11	Bright	35.000	36	50Alp UMa	1.8000	6300.0	70	18366	No
24	GOM_NL__2PRFIN20050904_040934_000000532040_00276_18366_6459.N1	04-SEP-2005 04:09:34	Bright	53.000	82	48Bet UMa	2.3650	10600.	106	18366	No
25	GOM_NL__2PRFIN20050904_043405_000000392040_00276_18366_6460.N1	04-SEP-2005 04:34:05	Dark	38.500	132	15Rho Pup	2.8030	6900.0	77	18366	No
26	GOM_NL__2PRFIN20050904_043821_000000402040_00276_18366_6461.N1	04-SEP-2005 04:38:21	Dark	39.500	70	Zet Pup	2.2460	39000.	79	18366	No
27	GOM_NL__2PRFIN20050904_044326_000000382040_00276_18366_6462.N1	04-SEP-2005 04:43:26	Dark	38.000	41	Eps Car	1.8600	4100.0	76	18366	No
28	GOM_NL__2PRFIN20050904_045356_000000382040_00277_18367_6450.N1	04-SEP-2005 04:53:56	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	18367	No
29	GOM_NL__2PRFIN20050904_045931_000000412040_00277_18367_6451.N1	04-SEP-2005 04:59:31	Straylight	41.000	148	Alp Tuc	2.8780	4100.0	82	18367	No
30	GOM_NL__2PRFIN20050904_050311_000000392040_00277_18367_6452.N1	04-SEP-2005 05:03:11	Straylight	39.000	31	Alp Gru	1.7340	15200.	78	18367	No
31	GOM_NL__2PRFIN20050904_050600_000000382040_00277_18367_6453.N1	04-SEP-2005 05:06:00	Straylight	37.500	172	Gam Gru	3.0030	13100.	75	18367	No
32	GOM_NL__2PRFIN20050904_052627_000000372040_00277_18367_6454.N1	04-SEP-2005 05:26:27	Bright	36.500	92	53Eps Cyg	2.5000	4500.0	73	18367	No
33	GOM_NL__2PRFIN20050904_052823_000000372040_00277_18367_6455.N1	04-SEP-2005 05:28:23	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	18367	No
34	GOM_NL__2PRFIN20050904_052937_000000362040_00277_18367_6456.N1	04-SEP-2005 05:29:37	Bright	35.500	19	50Alp Cyg	1.2460	10500.	71	18367	No
35	GOM_NL__2PRFIN20050904_054212_000000332040_00277_18367_6457.N1	04-SEP-2005 05:42:12	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	18367	No
36	GOM_NL__2PRFIN20050904_054847_000000362040_00277_18367_6458.N1	04-SEP-2005 05:48:47	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	18367	No
37	GOM_NL__2PRFIN20050904_055010_000000352040_00277_18367_6459.N1	04-SEP-2005 05:50:10	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	18367	No
38	GOM_NL__2PRFIN20050904_061441_000000372040_00277_18367_6460.N1	04-SEP-2005 06:14:41	Dark	37.000	132	15Rho Pup	2.8030	6900.0	74	18367	No
39	GOM_NL__2PRFIN20050904_061857_000000402040_00277_18367_6461.N1	04-SEP-2005 06:18:57	Dark	39.500	70	Zet Pup	2.2460	39000.	79	18367	No
40	GOM_NL__2PRFIN20050904_062402_000000442040_00277_18367_6462.N1	04-SEP-2005 06:24:02	Dark	43.500	41	Eps Car	1.8600	4100.0	87	18367	No
41	GOM_NL__2PRFIN20050904_063432_000000362040_00278_18368_6450.N1	04-SEP-2005 06:34:32	Dark	35.500	135	Bet Hyi	2.8200	5800.0	71	18368	No
42	GOM_NL__2PRFIN20050904_064007_000000382040_00278_18368_6451.N1	04-SEP-2005 06:40:07	Straylight	38.000	148	Alp Tuc	2.8780	4100.0	76	18368	No

161	GOM_NL__2PRFIN20050904_212926_000000432040_00286_18376_6482.N1	04-SEP-2005 21:29:26	Dark	43.000	41	Eps Car	1.8600	4100.0	86	18376	No
162	GOM_NL__2PRFIN20050904_213957_000000372040_00287_18377_6470.N1	04-SEP-2005 21:39:57	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	18377	No
163	GOM_NL__2PRFIN20050904_214532_000000452040_00287_18377_6471.N1	04-SEP-2005 21:45:32	Straylight	44.500	148	Alp Tuc	2.8780	4100.0	89	18377	No
164	GOM_NL__2PRFIN20050904_214913_000000412040_00287_18377_6472.N1	04-SEP-2005 21:49:13	Straylight	41.000	31	Alp Gru	1.7340	15200.	82	18377	No
165	GOM_NL__2PRFIN20050904_215202_000000392040_00287_18377_6473.N1	04-SEP-2005 21:52:02	Straylight	38.500	172	Gam Gru	3.0030	13100.	77	18377	No
166	GOM_NL__2PRFIN20050904_221228_000000332040_00287_18377_6474.N1	04-SEP-2005 22:12:28	Bright	33.000	92	53Eps Cyg	2.5000	4500.0	66	18377	No
167	GOM_NL__2PRFIN20050904_221424_000000342040_00287_18377_6475.N1	04-SEP-2005 22:14:24	Bright	34.000	66	37Gam Cyg	2.2080	5900.0	68	18377	No
168	GOM_NL__2PRFIN20050904_221537_000000372040_00287_18377_6476.N1	04-SEP-2005 22:15:37	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	18377	No
169	GOM_NL__2PRFIN20050904_222814_000000372040_00287_18377_6477.N1	04-SEP-2005 22:28:14	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	18377	No
170	GOM_NL__2PRFIN20050904_223449_000000362040_00287_18377_6478.N1	04-SEP-2005 22:34:49	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	18377	No
171	GOM_NL__2PRFIN20050904_223612_000000532040_00287_18377_6479.N1	04-SEP-2005 22:36:12	Bright	52.500	82	48Bet UMa	2.3650	10600.	105	18377	No
172	GOM_NL__2PRFIN20050904_230043_000000372040_00287_18377_6480.N1	04-SEP-2005 23:00:43	Dark	37.000	132	15Rho Pup	2.8030	6900.0	74	18377	No
173	GOM_NL__2PRFIN20050904_230459_000000382040_00287_18377_6481.N1	04-SEP-2005 23:04:59	Dark	38.000	70	Zet Pup	2.2460	39000.	76	18377	No
174	GOM_NL__2PRFIN20050904_231002_000000422040_00287_18377_6482.N1	04-SEP-2005 23:10:02	Dark	42.000	41	Eps Car	1.8600	4100.0	84	18377	No

3. Quality information per product

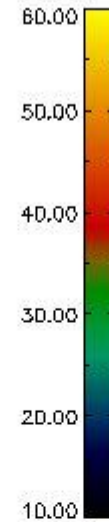
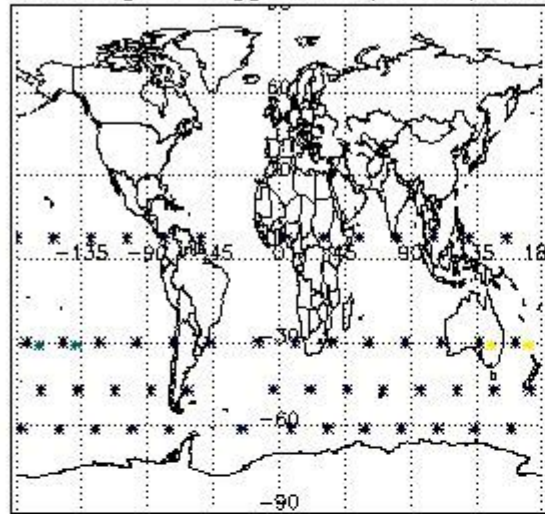
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

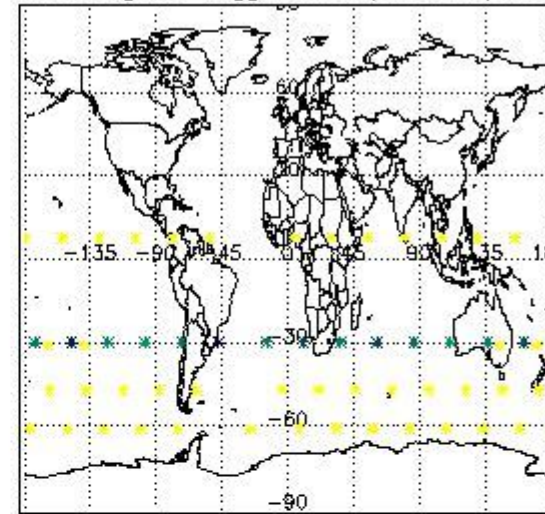


3.2 Plot quality information per product (world map)

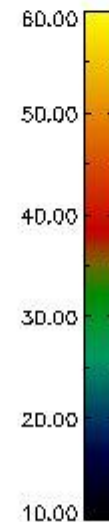
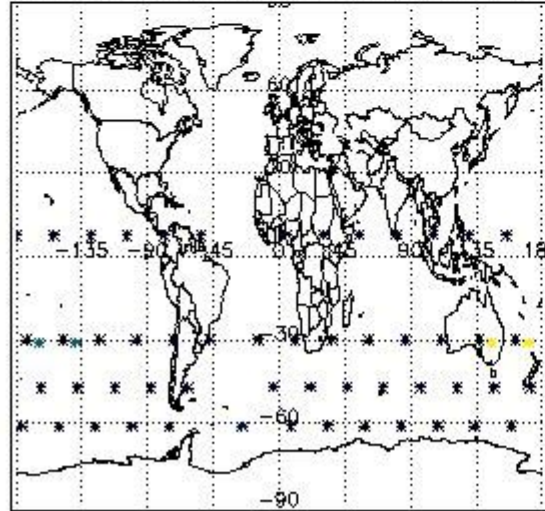
Percentage of flagged data per O3 profile



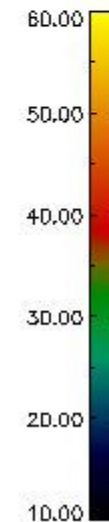
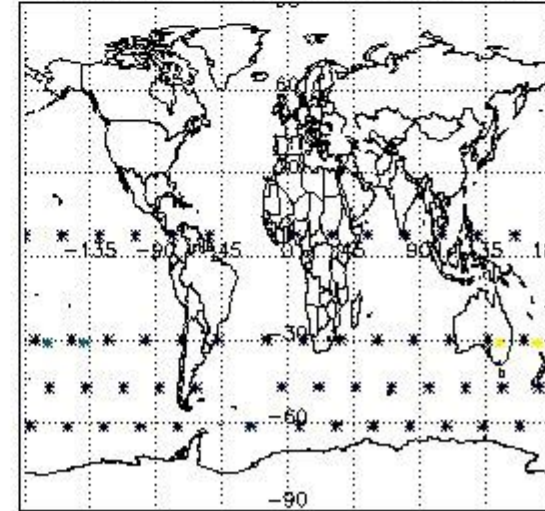
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

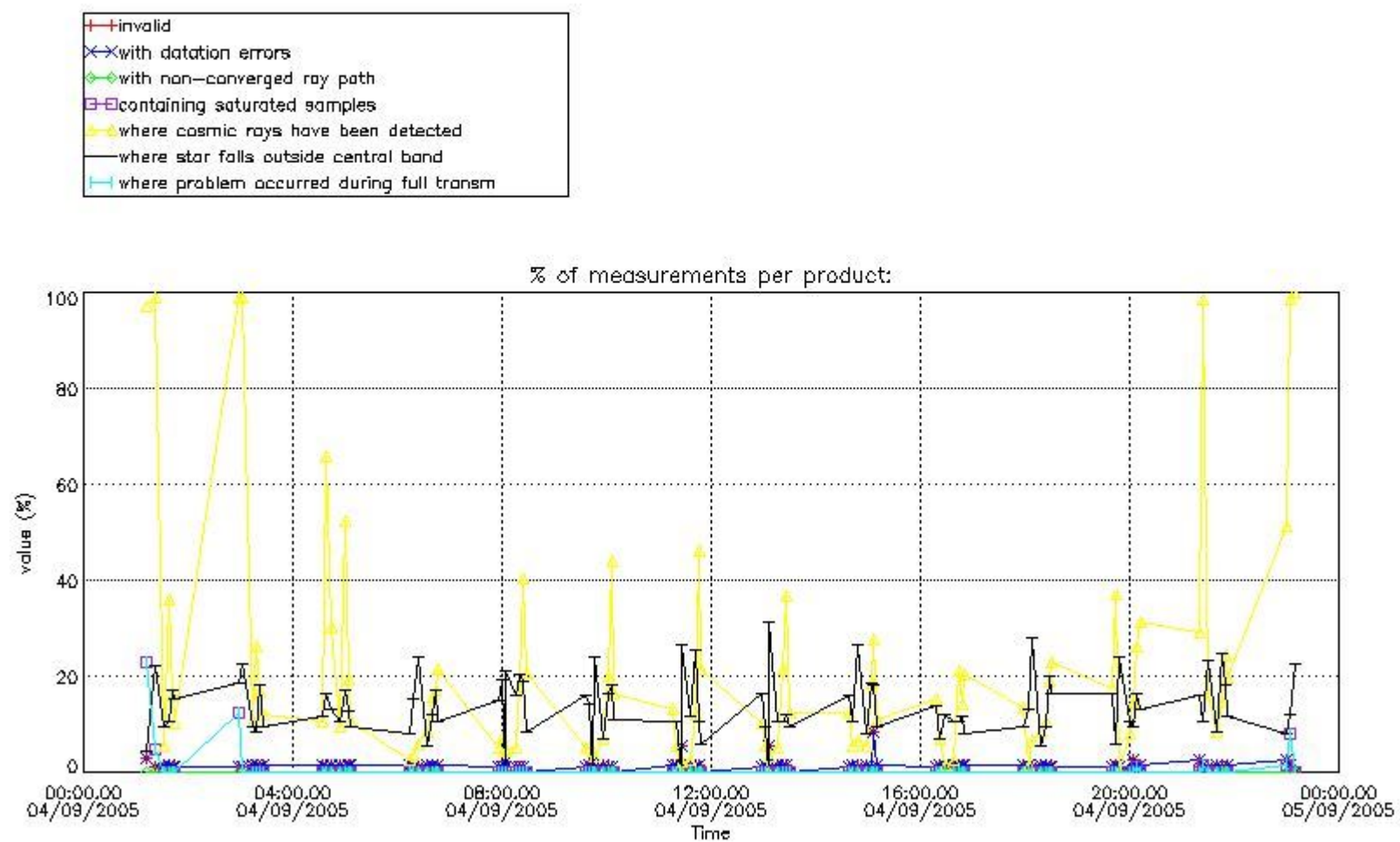


4. Level 1 quality information per product

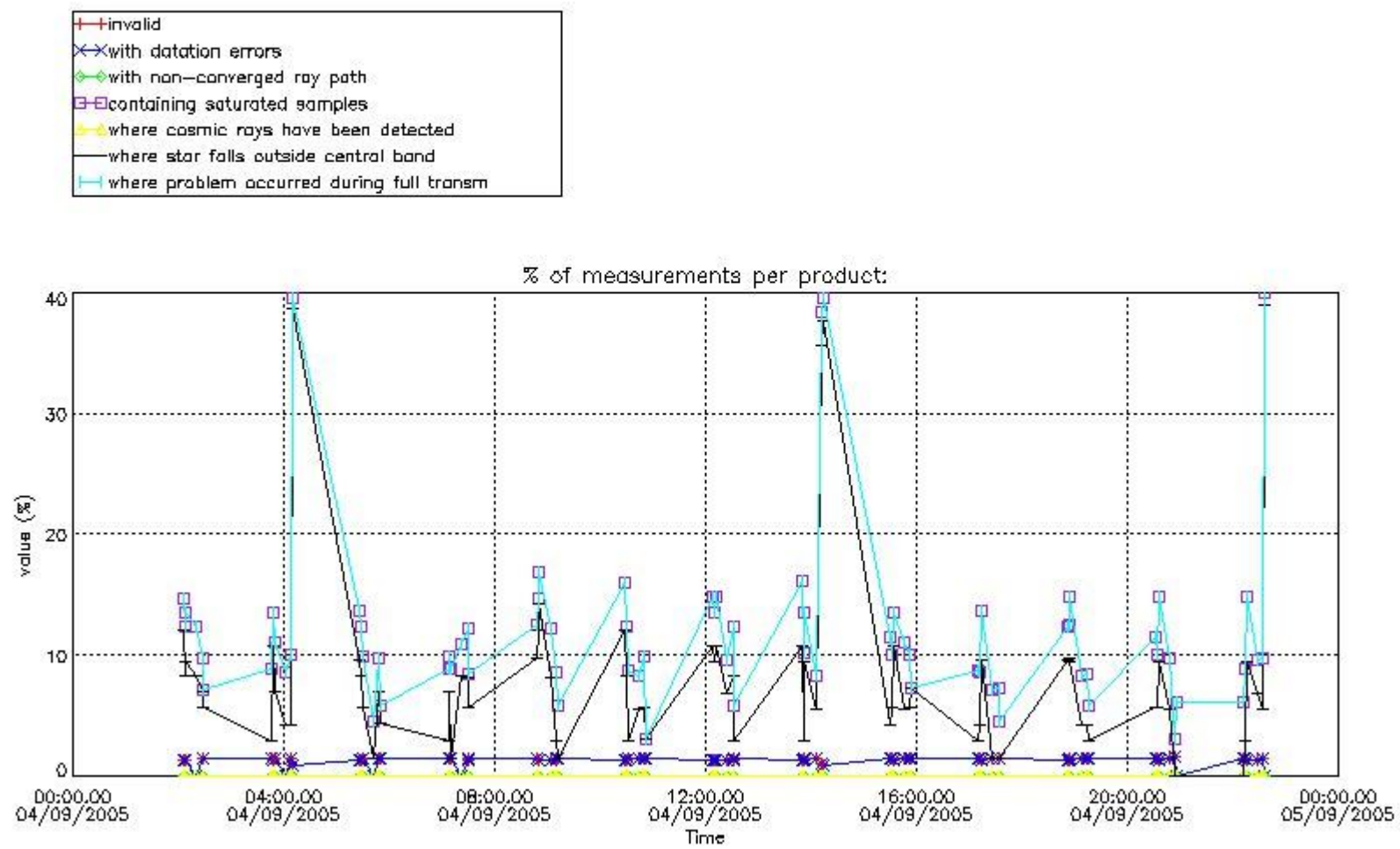
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



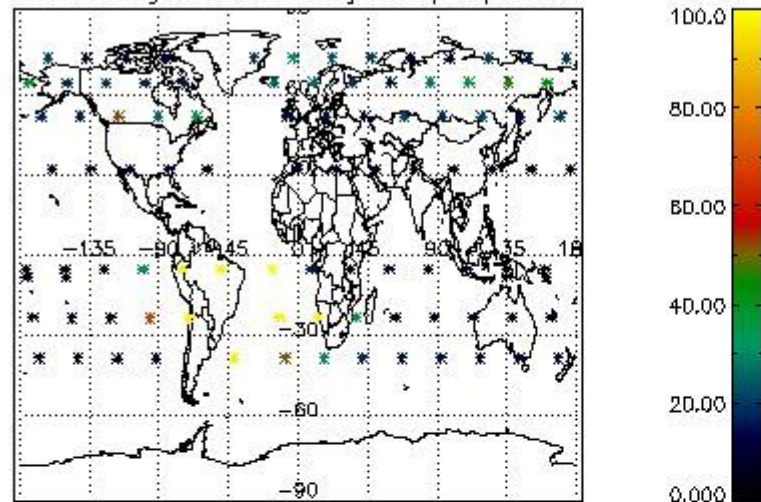
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



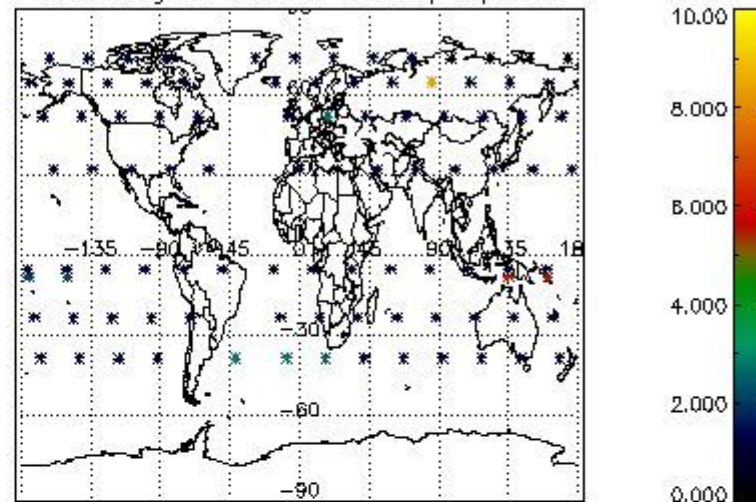
4.2 Plot quality information per product coming from level 1b processing (world map)

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

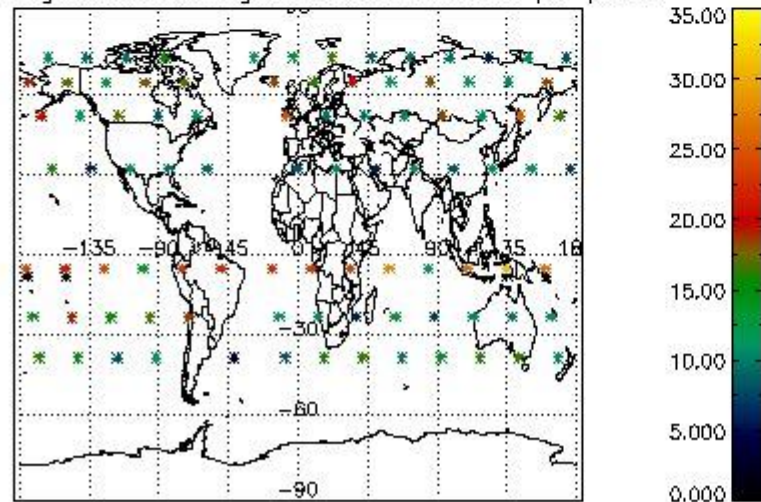
Percentage of cosmic ray hits per profile



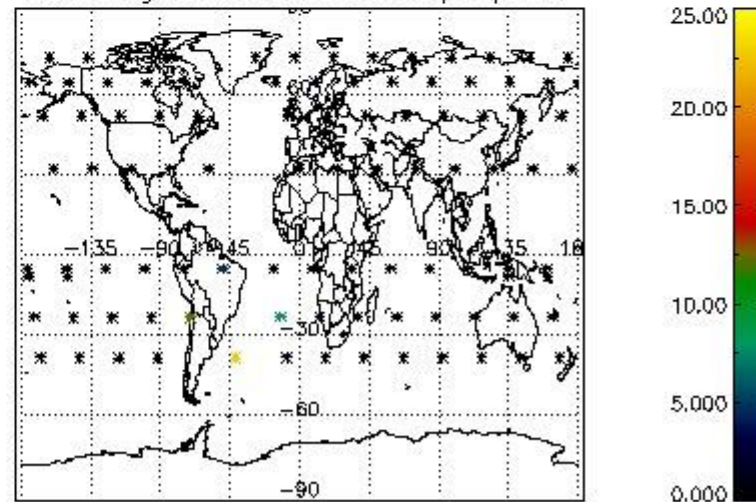
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

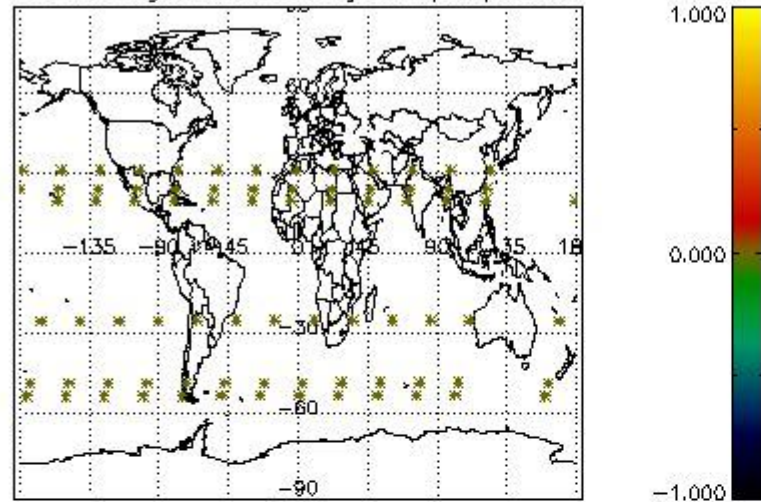


Percentage of saturation errors per profile

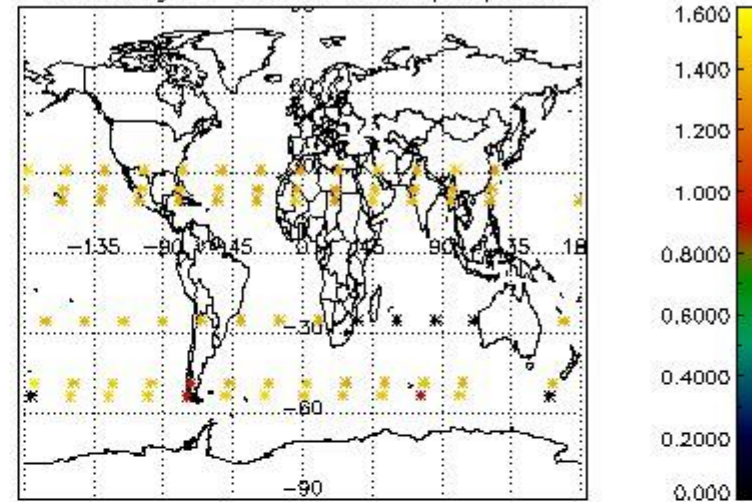


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

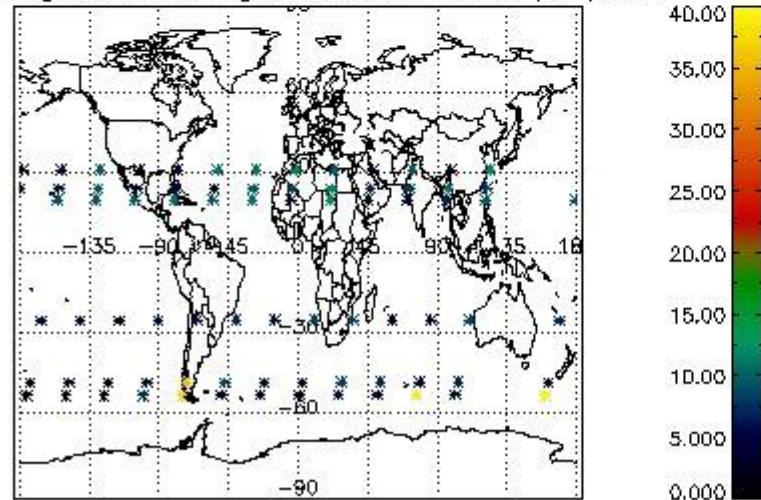
Percentage of cosmic ray hits per profile



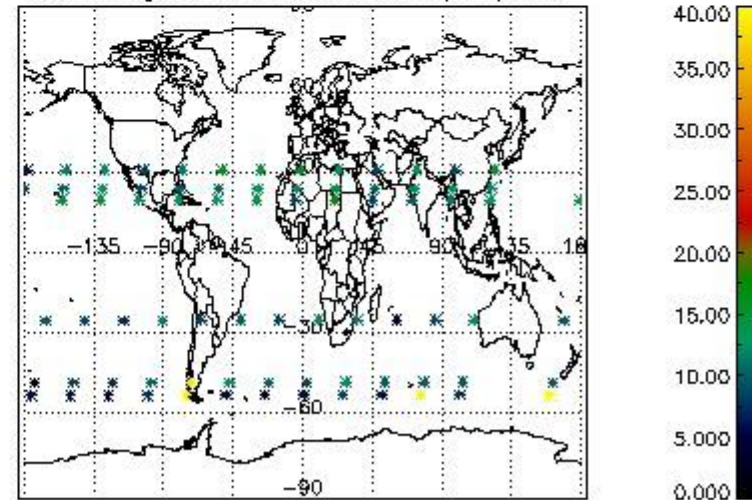
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

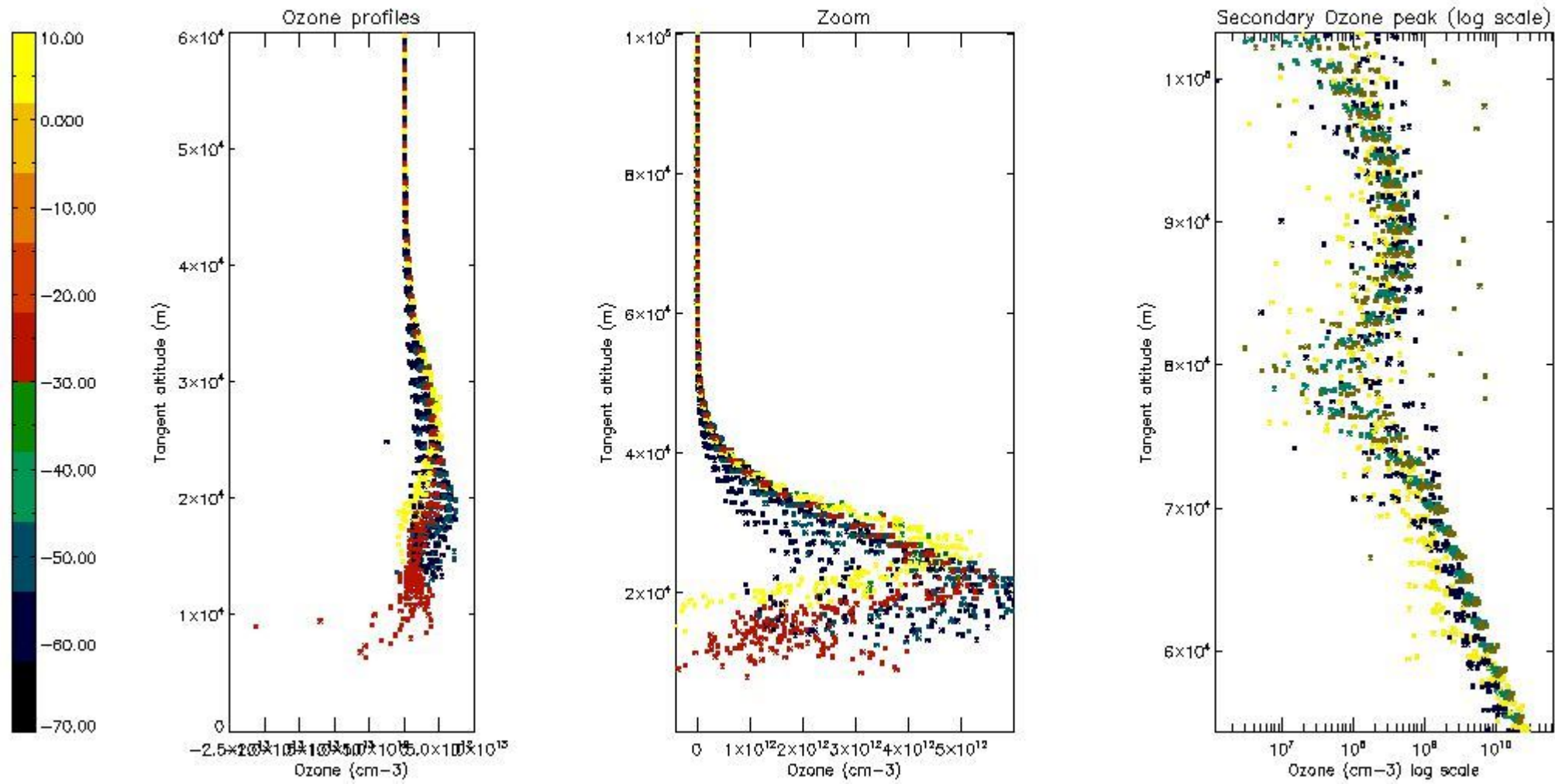
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	34
STD < 20	17

STD < 10	13
STD < 5	5

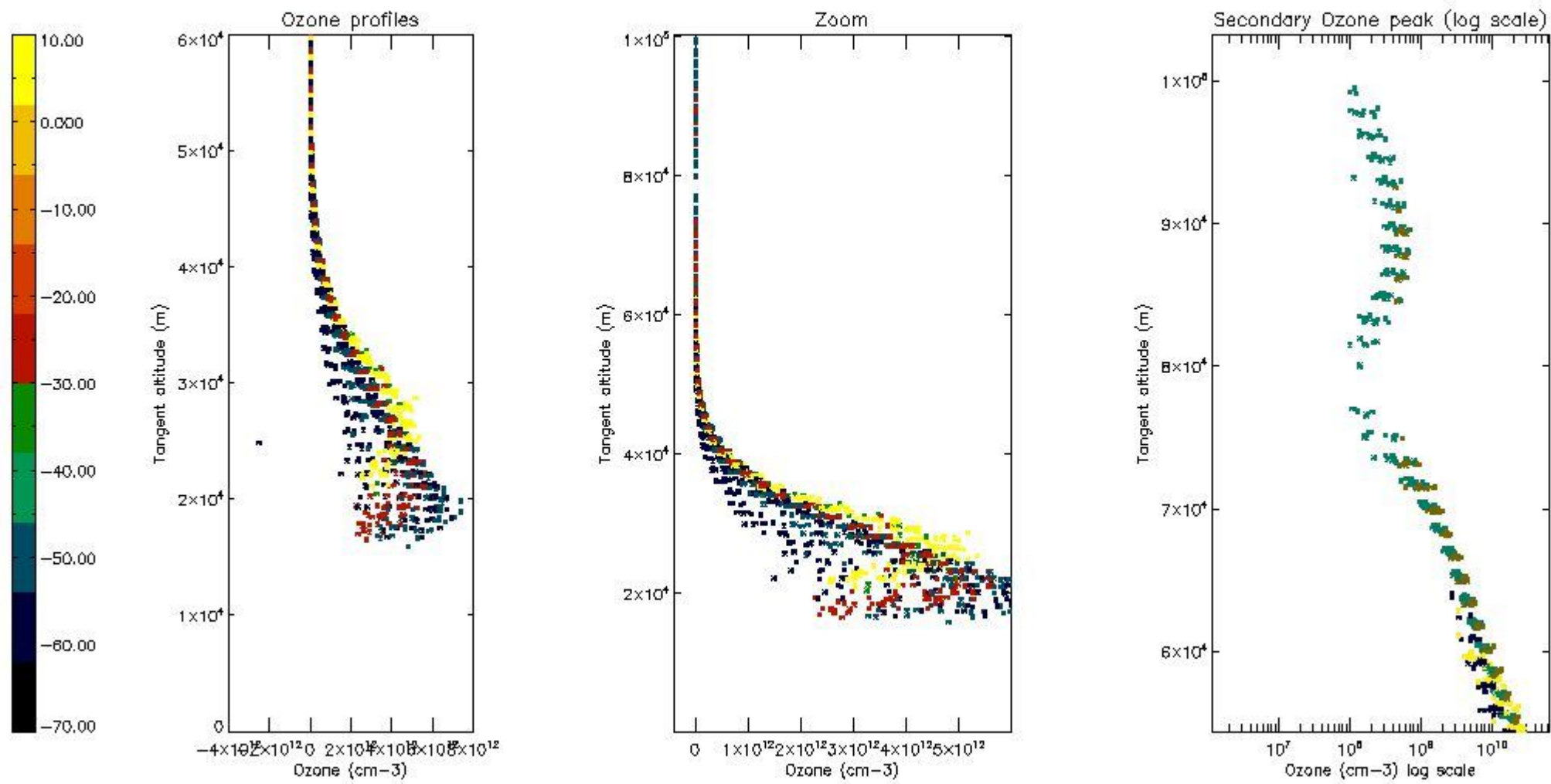
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



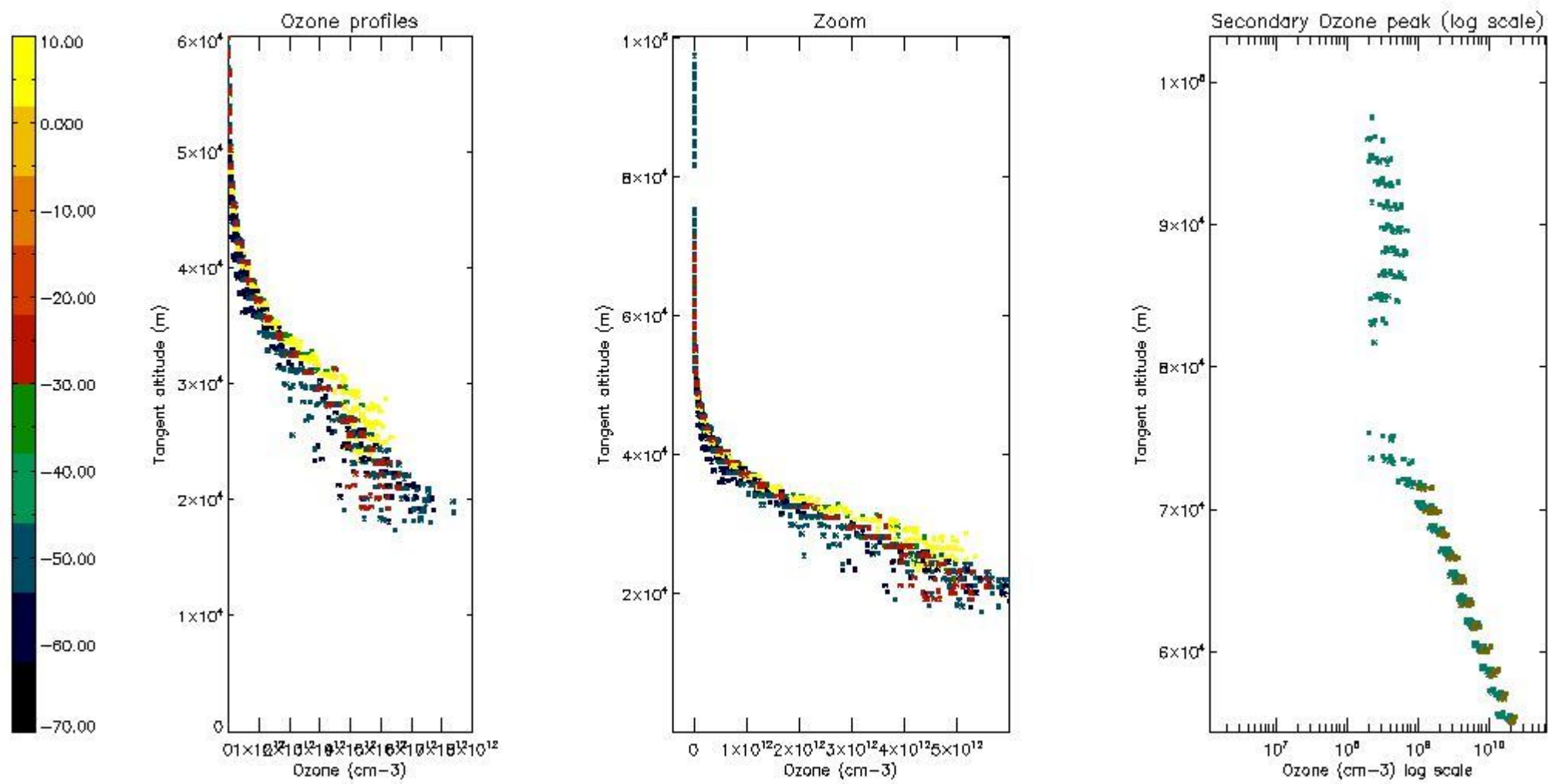
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



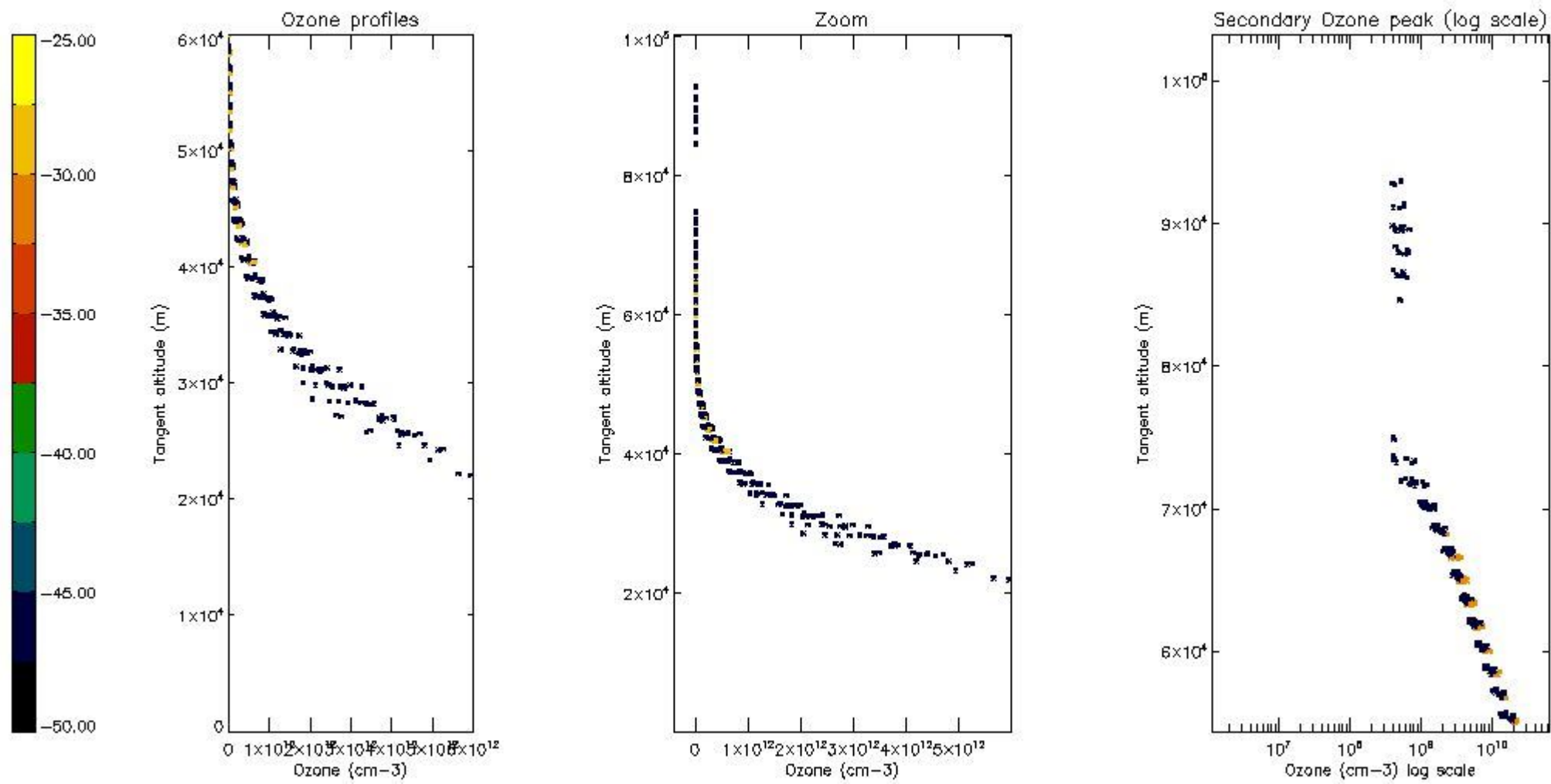
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



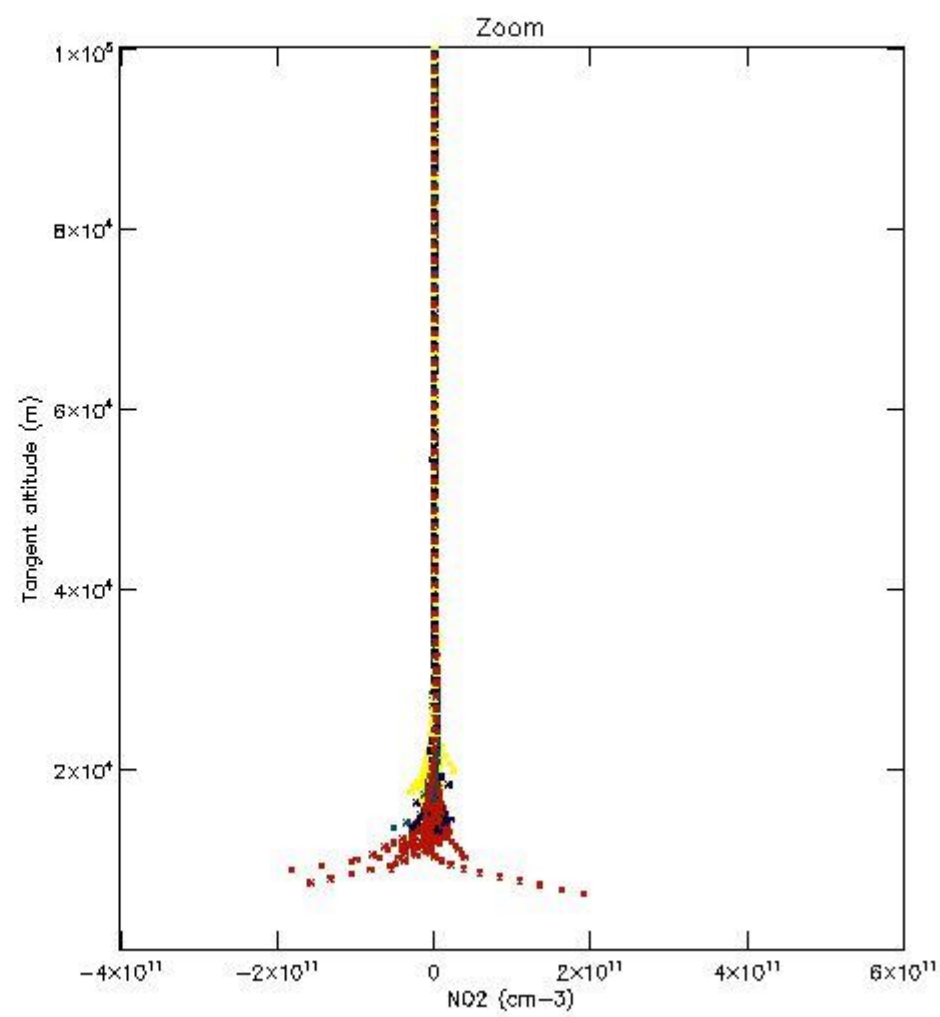
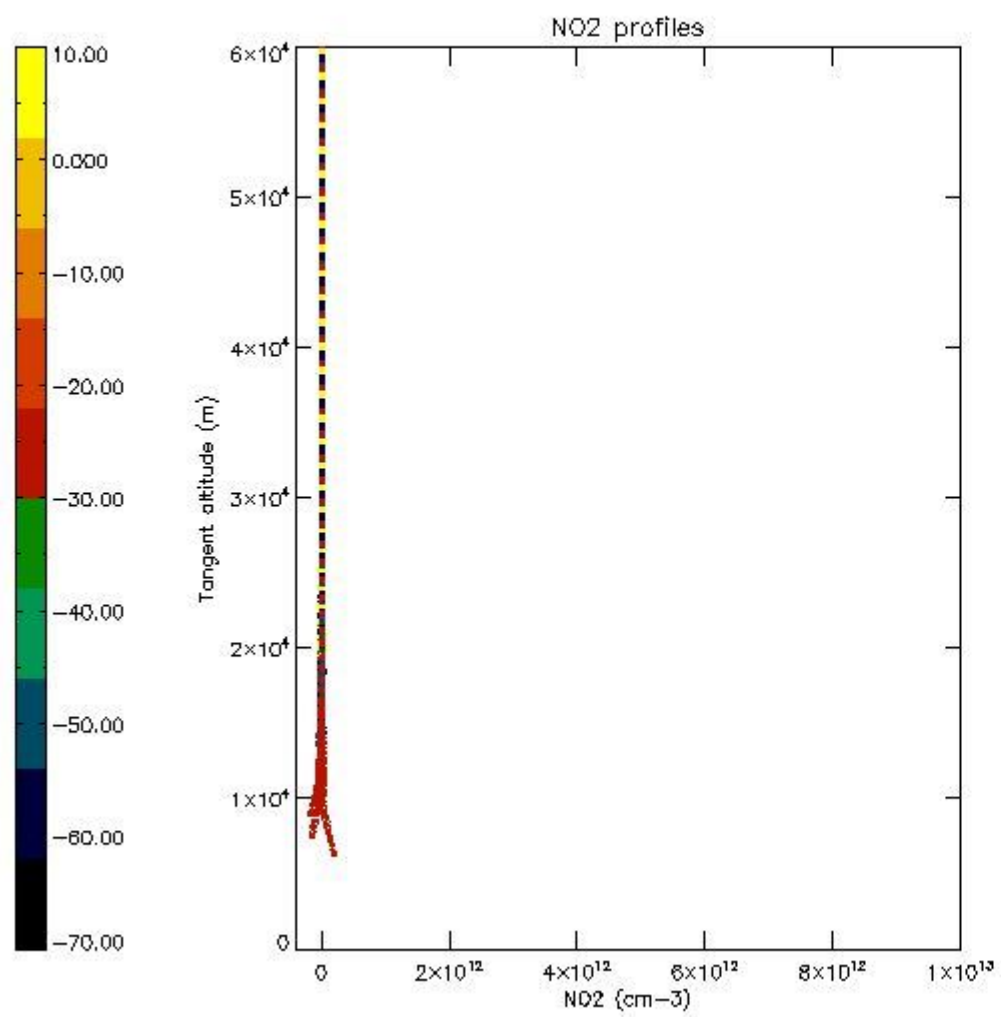
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



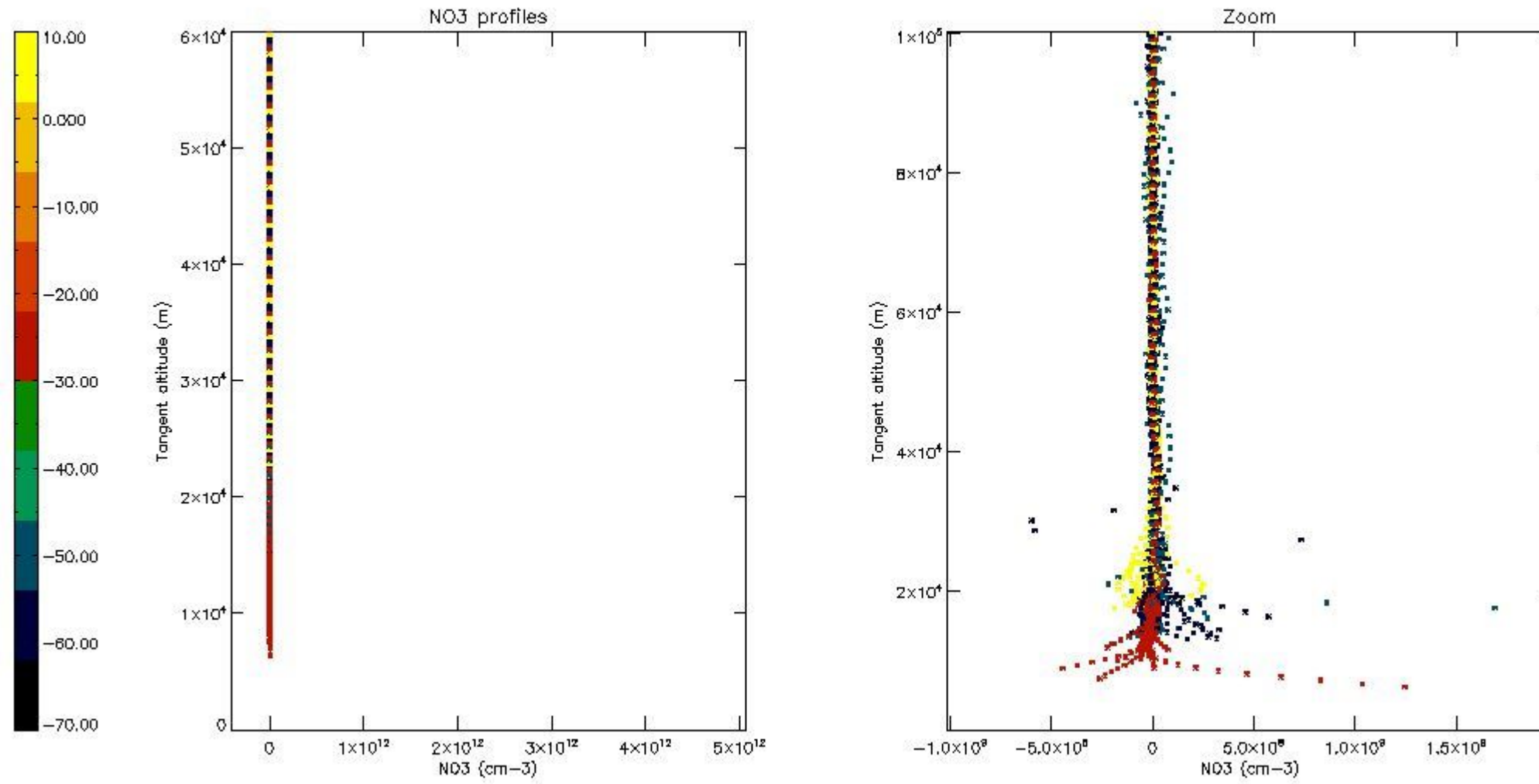
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	04-SEP-2005 01:12:52
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	04-SEP-2005 01:12:52
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	04-SEP-2005 01:12:52

GOMOS Level 2 Daily Report

SUMMARY

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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	18APR2013 10:44:51
Data source version	GOMOS/6.01
Start time of products	04-09-2005 (04SEP2005 00:00:00)
Stop time of products	05-09-2005 (05SEP2005 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	174
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

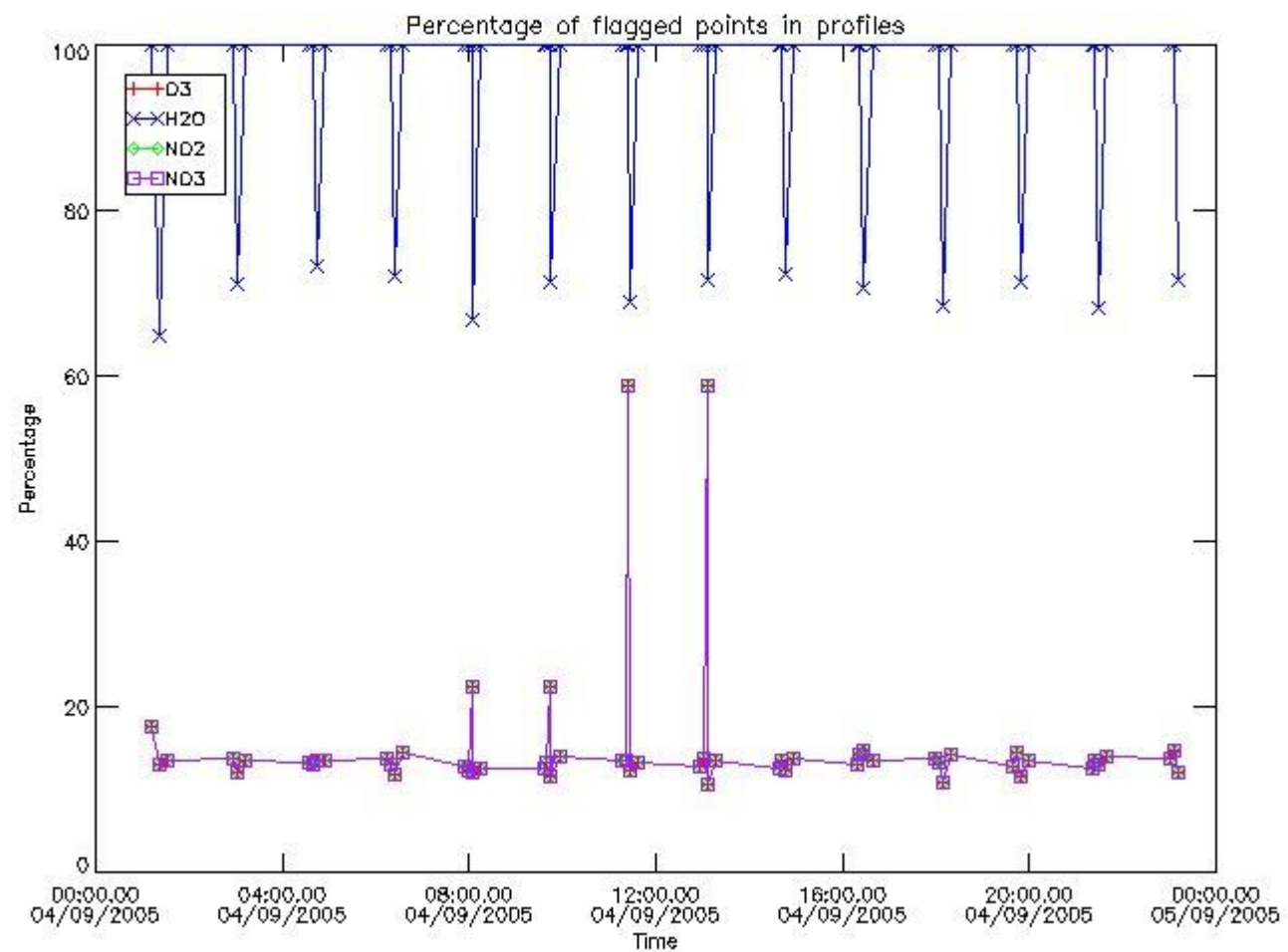
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20050904_011252_000000352040_00274_18364_6450.N1	04-SEP-2005 01:12:52	Dark	35.000	132	15Rho Pup	2.8030	6900.0	70	18364	No
2	GOM_NL__2PRFIN20050904_012214_000000432040_00274_18364_6451.N1	04-SEP-2005 01:22:14	Dark	43.000	41	Eps Car	1.8600	4100.0	86	18364	No
3	GOM_NL__2PRFIN20050904_013244_000000382040_00275_18365_6450.N1	04-SEP-2005 01:32:44	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	18365	No
4	GOM_NL__2PRFIN20050904_013819_000000382040_00275_18365_6451.N1	04-SEP-2005 01:38:19	Straylight	37.500	148	Alp Tuc	2.8780	4100.0	75	18365	No
5	GOM_NL__2PRFIN20050904_014159_000000412040_00275_18365_6452.N1	04-SEP-2005 01:41:59	Straylight	41.000	31	Alp Gru	1.7340	15200.	82	18365	No
6	GOM_NL__2PRFIN20050904_014448_000000402040_00275_18365_6453.N1	04-SEP-2005 01:44:48	Straylight	39.500	172	Gam Gru	3.0030	13100.	79	18365	No
7	GOM_NL__2PRFIN20050904_020515_000000382040_00275_18365_6454.N1	04-SEP-2005 02:05:15	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	18365	No
8	GOM_NL__2PRFIN20050904_020711_000000372040_00275_18365_6455.N1	04-SEP-2005 02:07:11	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	18365	No
9	GOM_NL__2PRFIN20050904_020825_000000372040_00275_18365_6456.N1	04-SEP-2005 02:08:25	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	18365	No
10	GOM_NL__2PRFIN20050904_022059_000000372040_00275_18365_6457.N1	04-SEP-2005 02:20:59	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	18365	No
11	GOM_NL__2PRFIN20050904_022735_000000362040_00275_18365_6458.N1	04-SEP-2005 02:27:35	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	18365	No
12	GOM_NL__2PRFIN20050904_022858_000000352040_00275_18365_6459.N1	04-SEP-2005 02:28:58	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	18365	No
13	GOM_NL__2PRFIN20050904_025745_000000412040_00275_18365_6460.N1	04-SEP-2005 02:57:45	Dark	40.500	70	Zet Pup	2.2460	39000.	81	18365	No
14	GOM_NL__2PRFIN20050904_030250_000000422040_00275_18365_6461.N1	04-SEP-2005 03:02:50	Dark	42.000	41	Eps Car	1.8600	4100.0	84	18365	No
15	GOM_NL__2PRFIN20050904_031320_000000382040_00276_18366_6450.N1	04-SEP-2005 03:13:20	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	18366	No
16	GOM_NL__2PRFIN20050904_031855_000000372040_00276_18366_6451.N1	04-SEP-2005 03:18:55	Straylight	36.500	148	Alp Tuc	2.8780	4100.0	73	18366	No
17	GOM_NL__2PRFIN20050904_032235_000000422040_00276_18366_6452.N1	04-SEP-2005 03:22:35	Straylight	41.500	31	Alp Gru	1.7340	15200.	83	18366	No
18	GOM_NL__2PRFIN20050904_032524_000000372040_00276_18366_6453.N1	04-SEP-2005 03:25:24	Straylight	37.000	172	Gam Gru	3.0030	13100.	74	18366	No
19	GOM_NL__2PRFIN20050904_034551_000000342040_00276_18366_6454.N1	04-SEP-2005 03:45:51	Bright	34.000	92	53Eps Cyg	2.5000	4500.0	68	18366	No
20	GOM_NL__2PRFIN20050904_034747_000000372040_00276_18366_6455.N1	04-SEP-2005 03:47:47	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	18366	No
21	GOM_NL__2PRFIN20050904_034901_000000362040_00276_18366_6456.N1	04-SEP-2005 03:49:01	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	18366	No
22	GOM_NL__2PRFIN20050904_040135_000000352040_00276_18366_6457.N1	04-SEP-2005 04:01:35	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	18366	No
23	GOM_NL__2PRFIN20050904_040811_000000352040_00276_18366_6458.N1	04-SEP-2005 04:08:11	Bright	35.000	36	50Alp UMa	1.8000	6300.0	70	18366	No
24	GOM_NL__2PRFIN20050904_040934_000000532040_00276_18366_6459.N1	04-SEP-2005 04:09:34	Bright	53.000	82	48Bet UMa	2.3650	10600.	106	18366	No
25	GOM_NL__2PRFIN20050904_043405_000000392040_00276_18366_6460.N1	04-SEP-2005 04:34:05	Dark	38.500	132	15Rho Pup	2.8030	6900.0	77	18366	No
26	GOM_NL__2PRFIN20050904_043821_000000402040_00276_18366_6461.N1	04-SEP-2005 04:38:21	Dark	39.500	70	Zet Pup	2.2460	39000.	79	18366	No
27	GOM_NL__2PRFIN20050904_044326_000000382040_00276_18366_6462.N1	04-SEP-2005 04:43:26	Dark	38.000	41	Eps Car	1.8600	4100.0	76	18366	No
28	GOM_NL__2PRFIN20050904_045356_000000382040_00277_18367_6450.N1	04-SEP-2005 04:53:56	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	18367	No
29	GOM_NL__2PRFIN20050904_045931_000000412040_00277_18367_6451.N1	04-SEP-2005 04:59:31	Straylight	41.000	148	Alp Tuc	2.8780	4100.0	82	18367	No
30	GOM_NL__2PRFIN20050904_050311_000000392040_00277_18367_6452.N1	04-SEP-2005 05:03:11	Straylight	39.000	31	Alp Gru	1.7340	15200.	78	18367	No
31	GOM_NL__2PRFIN20050904_050600_000000382040_00277_18367_6453.N1	04-SEP-2005 05:06:00	Straylight	37.500	172	Gam Gru	3.0030	13100.	75	18367	No
32	GOM_NL__2PRFIN20050904_052627_000000372040_00277_18367_6454.N1	04-SEP-2005 05:26:27	Bright	36.500	92	53Eps Cyg	2.5000	4500.0	73	18367	No
33	GOM_NL__2PRFIN20050904_052823_000000372040_00277_18367_6455.N1	04-SEP-2005 05:28:23	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	18367	No
34	GOM_NL__2PRFIN20050904_052937_000000362040_00277_18367_6456.N1	04-SEP-2005 05:29:37	Bright	35.500	19	50Alp Cyg	1.2460	10500.	71	18367	No
35	GOM_NL__2PRFIN20050904_054212_000000332040_00277_18367_6457.N1	04-SEP-2005 05:42:12	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	18367	No
36	GOM_NL__2PRFIN20050904_054847_000000362040_00277_18367_6458.N1	04-SEP-2005 05:48:47	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	18367	No
37	GOM_NL__2PRFIN20050904_055010_000000352040_00277_18367_6459.N1	04-SEP-2005 05:50:10	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	18367	No
38	GOM_NL__2PRFIN20050904_061441_000000372040_00277_18367_6460.N1	04-SEP-2005 06:14:41	Dark	37.000	132	15Rho Pup	2.8030	6900.0	74	18367	No
39	GOM_NL__2PRFIN20050904_061857_000000402040_00277_18367_6461.N1	04-SEP-2005 06:18:57	Dark	39.500	70	Zet Pup	2.2460	39000.	79	18367	No
40	GOM_NL__2PRFIN20050904_062402_000000442040_00277_18367_6462.N1	04-SEP-2005 06:24:02	Dark	43.500	41	Eps Car	1.8600	4100.0	87	18367	No
41	GOM_NL__2PRFIN20050904_063432_000000362040_00278_18368_6450.N1	04-SEP-2005 06:34:32	Dark	35.500	135	Bet Hyi	2.8200	5800.0	71	18368	No
42	GOM_NL__2PRFIN20050904_064007_000000382040_00278_18368_6451.N1	04-SEP-2005 06:40:07	Straylight	38.000	148	Alp Tuc	2.8780	4100.0	76	18368	No

161	GOM_NL__2PRFIN20050904_212926_000000432040_00286_18376_6482.N1	04-SEP-2005 21:29:26	Dark	43.000	41	Eps Car	1.8600	4100.0	86	18376	No
162	GOM_NL__2PRFIN20050904_213957_000000372040_00287_18377_6470.N1	04-SEP-2005 21:39:57	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	18377	No
163	GOM_NL__2PRFIN20050904_214532_000000452040_00287_18377_6471.N1	04-SEP-2005 21:45:32	Straylight	44.500	148	Alp Tuc	2.8780	4100.0	89	18377	No
164	GOM_NL__2PRFIN20050904_214913_000000412040_00287_18377_6472.N1	04-SEP-2005 21:49:13	Straylight	41.000	31	Alp Gru	1.7340	15200.	82	18377	No
165	GOM_NL__2PRFIN20050904_215202_000000392040_00287_18377_6473.N1	04-SEP-2005 21:52:02	Straylight	38.500	172	Gam Gru	3.0030	13100.	77	18377	No
166	GOM_NL__2PRFIN20050904_221228_000000332040_00287_18377_6474.N1	04-SEP-2005 22:12:28	Bright	33.000	92	53Eps Cyg	2.5000	4500.0	66	18377	No
167	GOM_NL__2PRFIN20050904_221424_000000342040_00287_18377_6475.N1	04-SEP-2005 22:14:24	Bright	34.000	66	37Gam Cyg	2.2080	5900.0	68	18377	No
168	GOM_NL__2PRFIN20050904_221537_000000372040_00287_18377_6476.N1	04-SEP-2005 22:15:37	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	18377	No
169	GOM_NL__2PRFIN20050904_222814_000000372040_00287_18377_6477.N1	04-SEP-2005 22:28:14	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	18377	No
170	GOM_NL__2PRFIN20050904_223449_000000362040_00287_18377_6478.N1	04-SEP-2005 22:34:49	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	18377	No
171	GOM_NL__2PRFIN20050904_223612_000000532040_00287_18377_6479.N1	04-SEP-2005 22:36:12	Bright	52.500	82	48Bet UMa	2.3650	10600.	105	18377	No
172	GOM_NL__2PRFIN20050904_230043_000000372040_00287_18377_6480.N1	04-SEP-2005 23:00:43	Dark	37.000	132	15Rho Pup	2.8030	6900.0	74	18377	No
173	GOM_NL__2PRFIN20050904_230459_000000382040_00287_18377_6481.N1	04-SEP-2005 23:04:59	Dark	38.000	70	Zet Pup	2.2460	39000.	76	18377	No
174	GOM_NL__2PRFIN20050904_231002_000000422040_00287_18377_6482.N1	04-SEP-2005 23:10:02	Dark	42.000	41	Eps Car	1.8600	4100.0	84	18377	No

3. Quality information per product

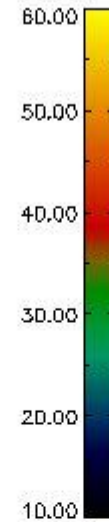
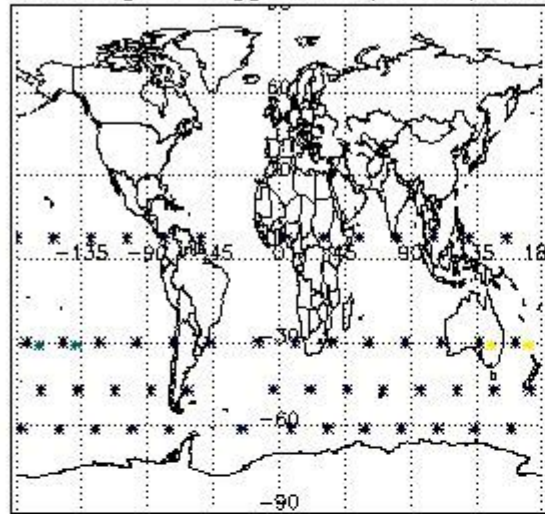
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

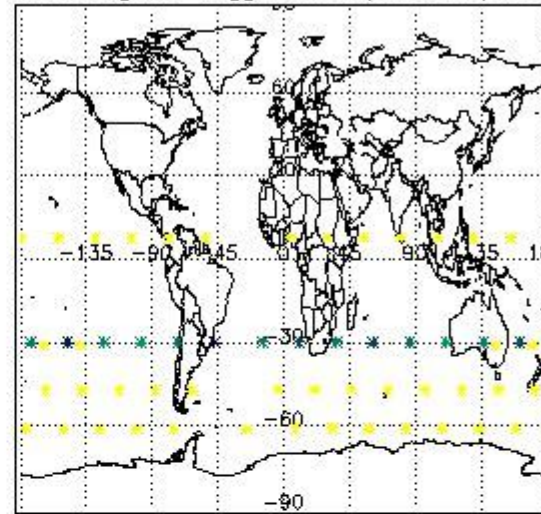


3.2 Plot quality information per product (world map)

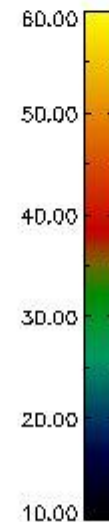
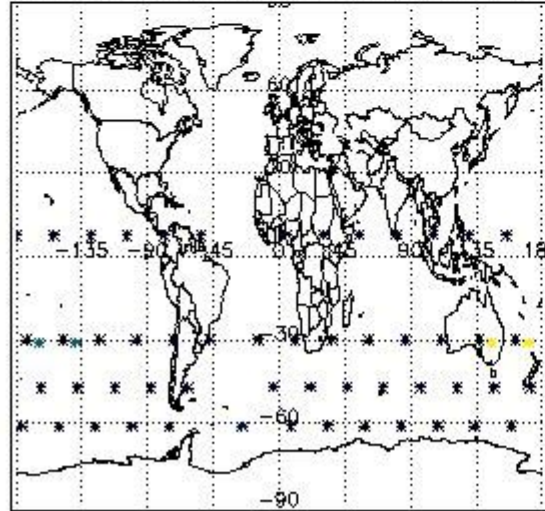
Percentage of flagged data per O3 profile



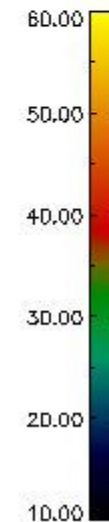
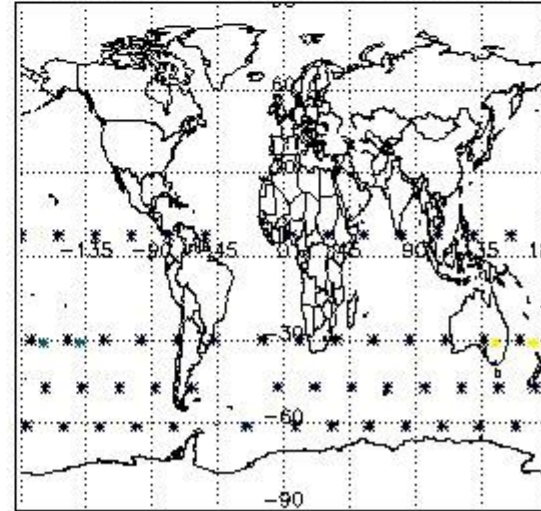
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

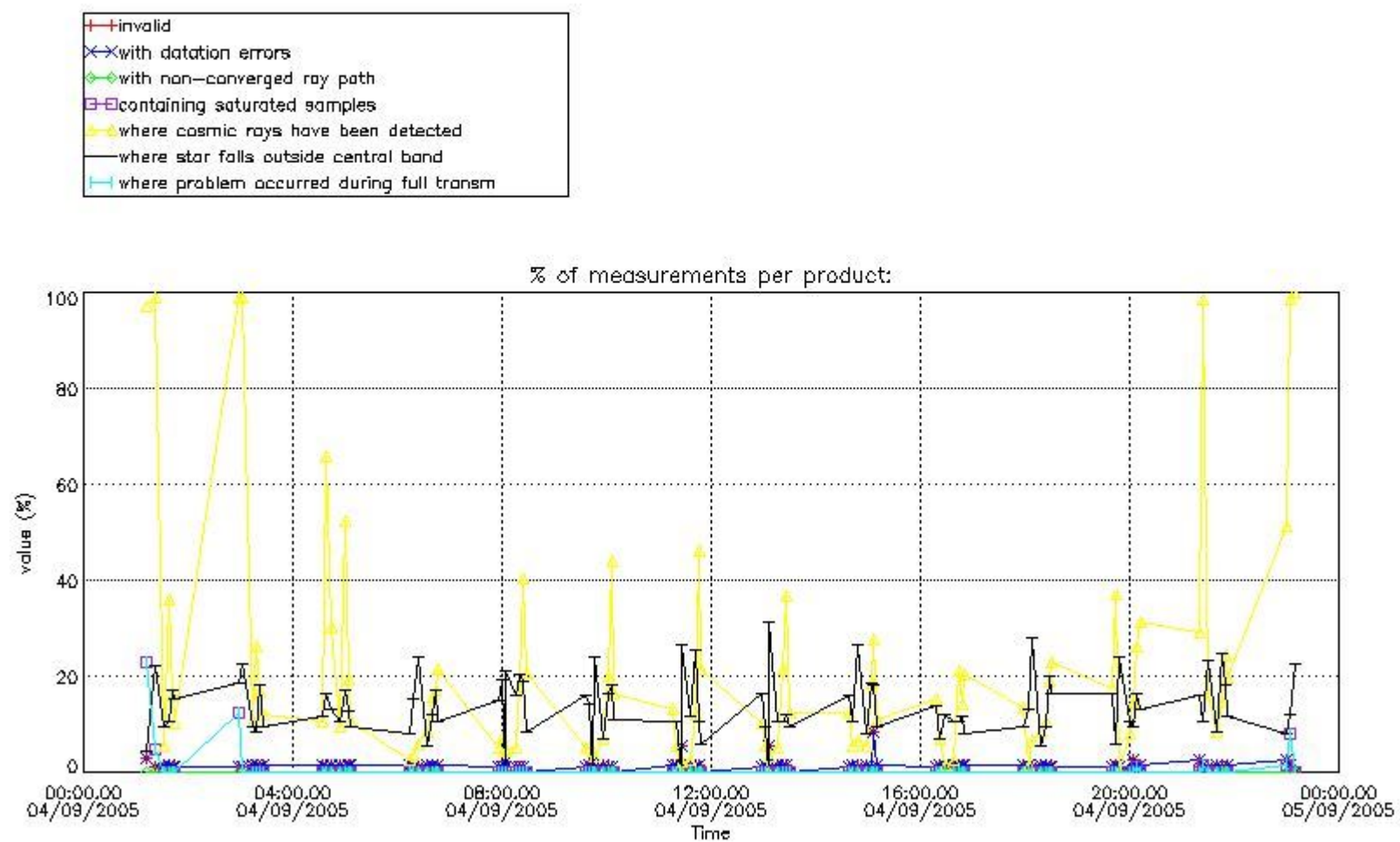


4. Level 1 quality information per product

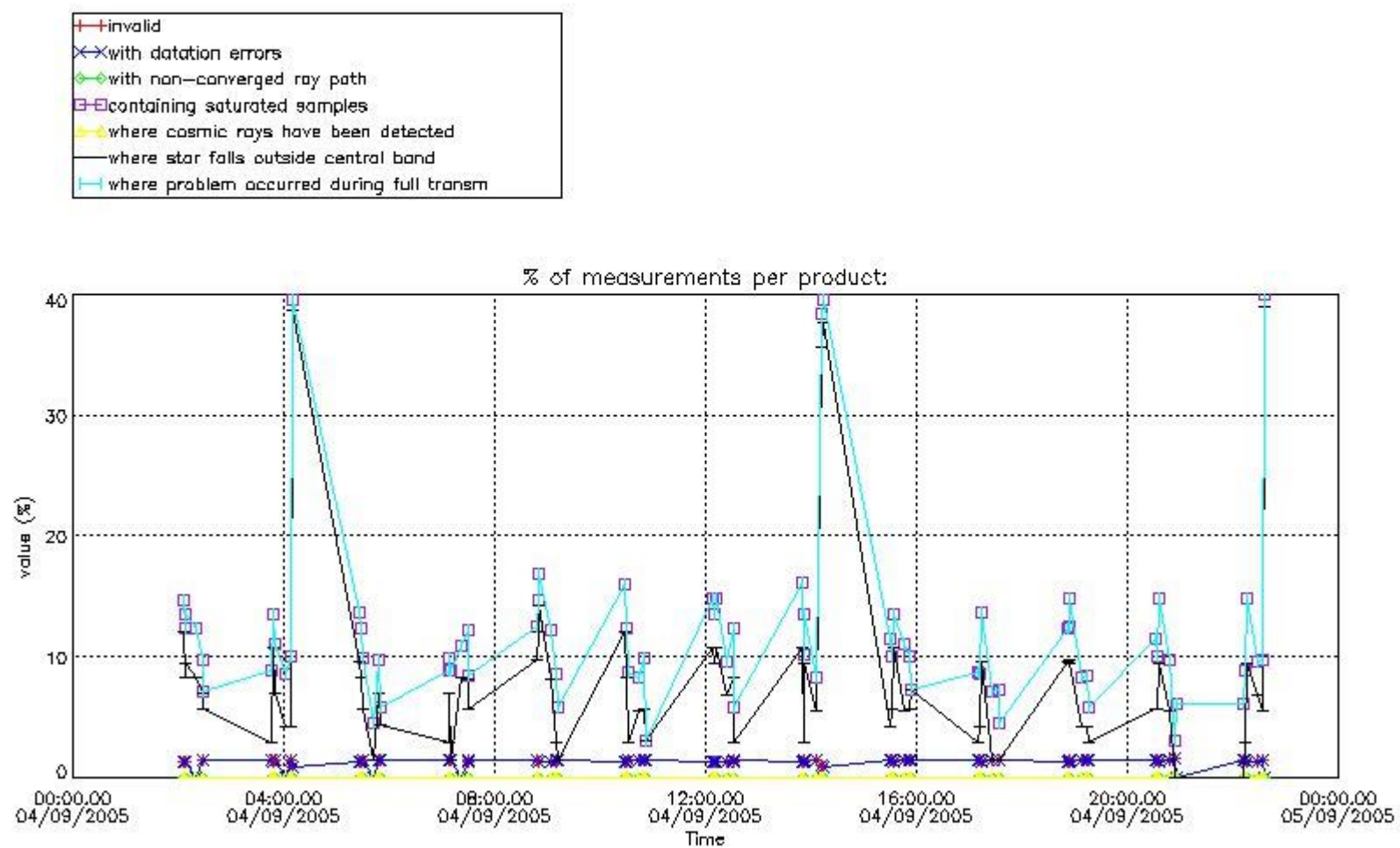
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



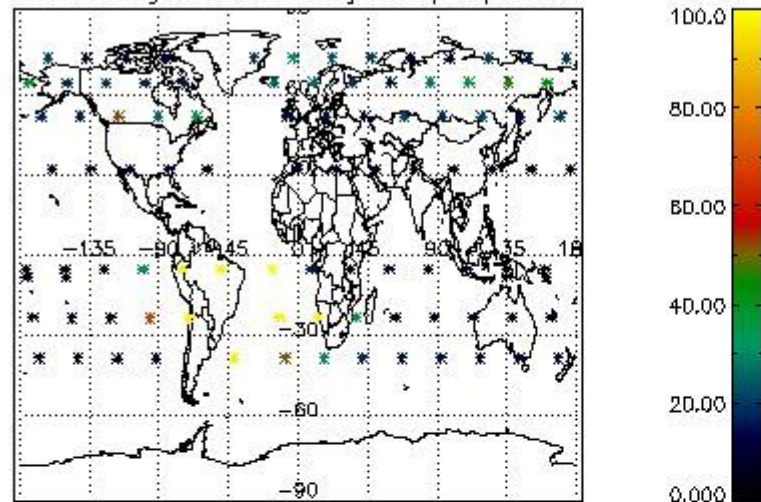
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



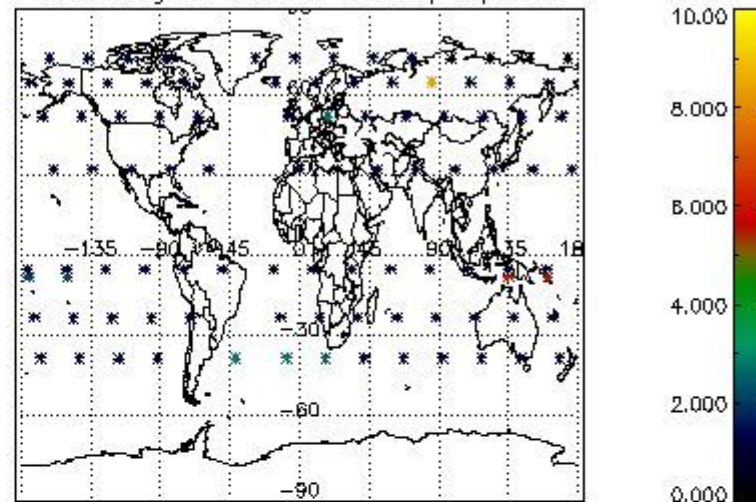
4.2 Plot quality information per product coming from level 1b processing (world map)

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

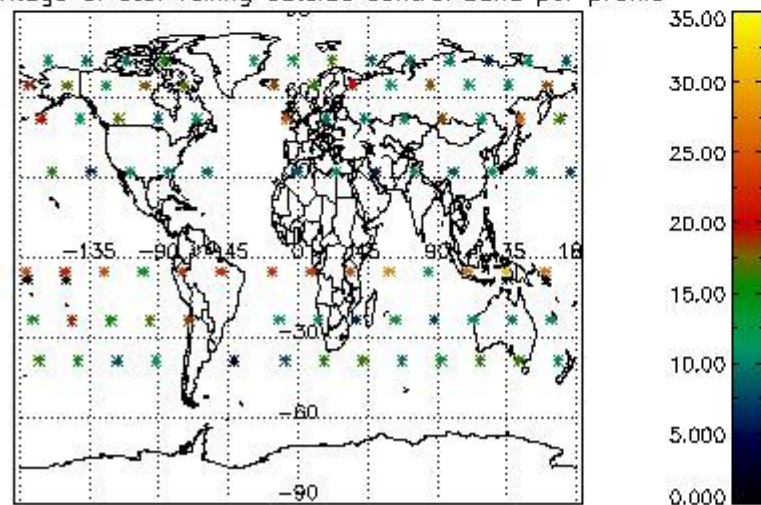
Percentage of cosmic ray hits per profile



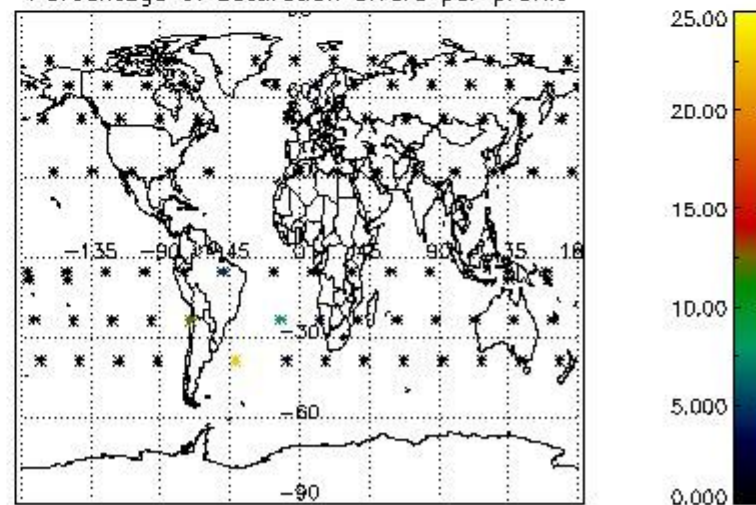
Percentage of datation errors per profile



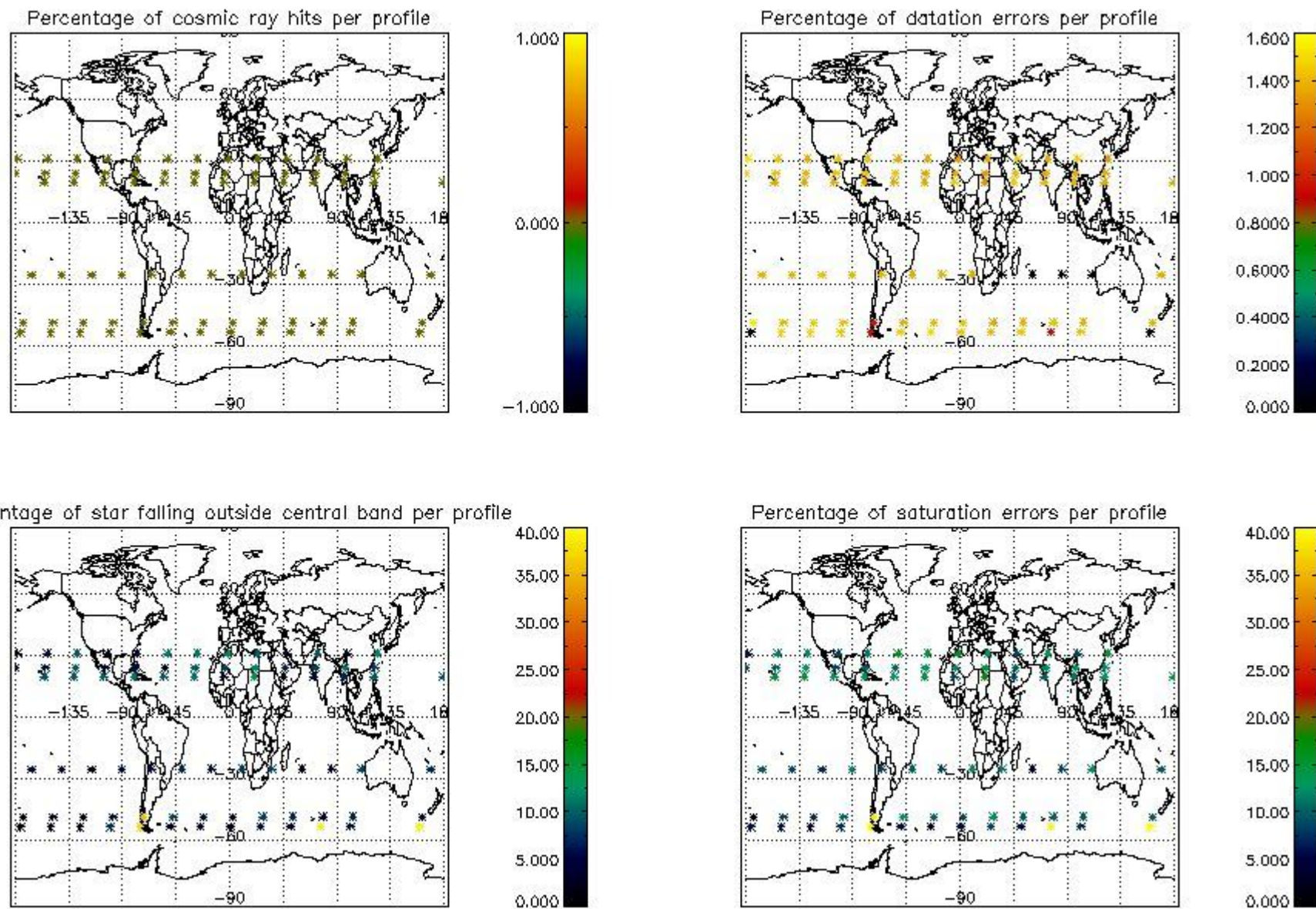
Percentage of star falling outside central band per profile



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

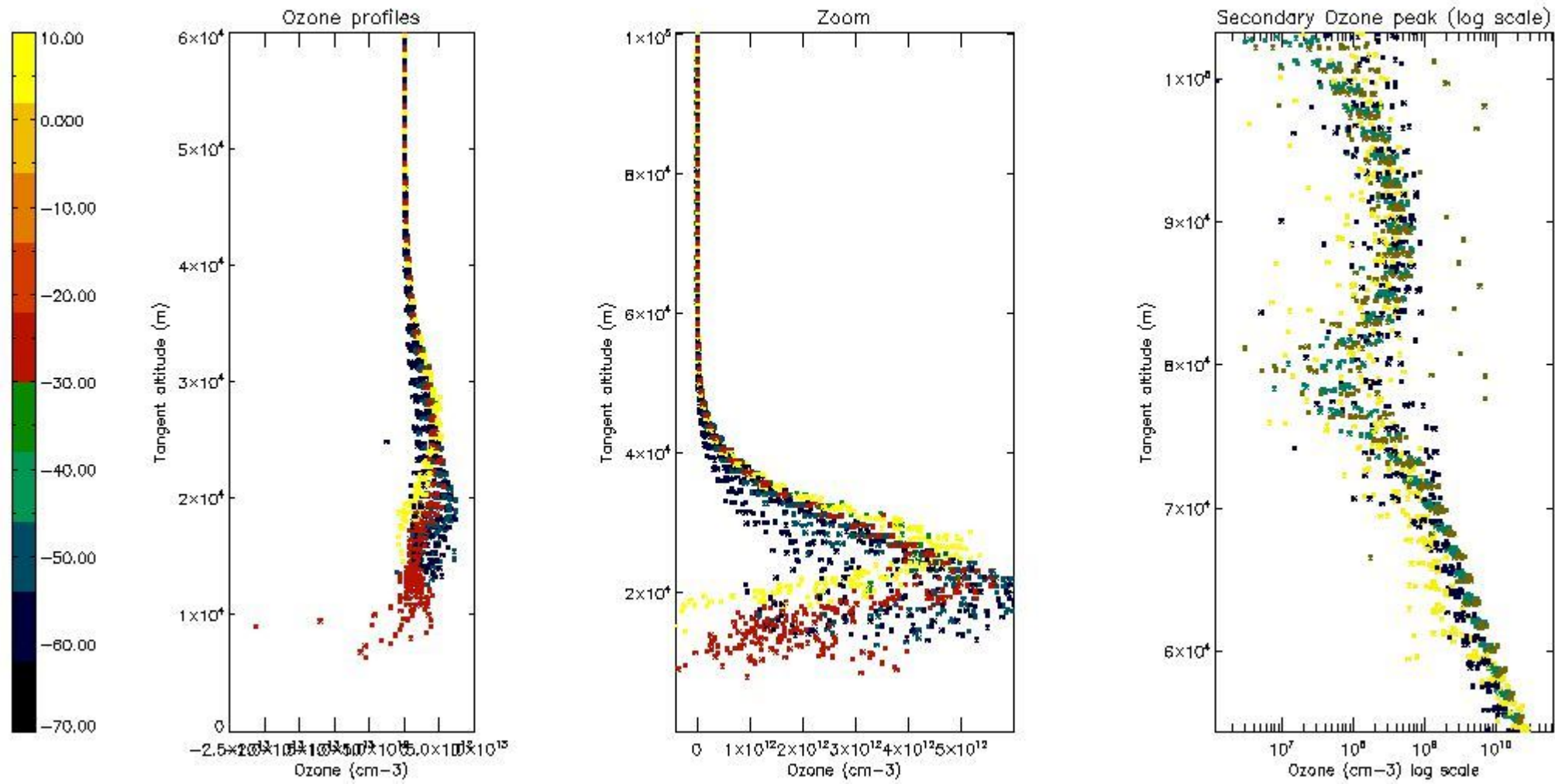
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	34
STD < 20	17

STD < 10	13
STD < 5	5

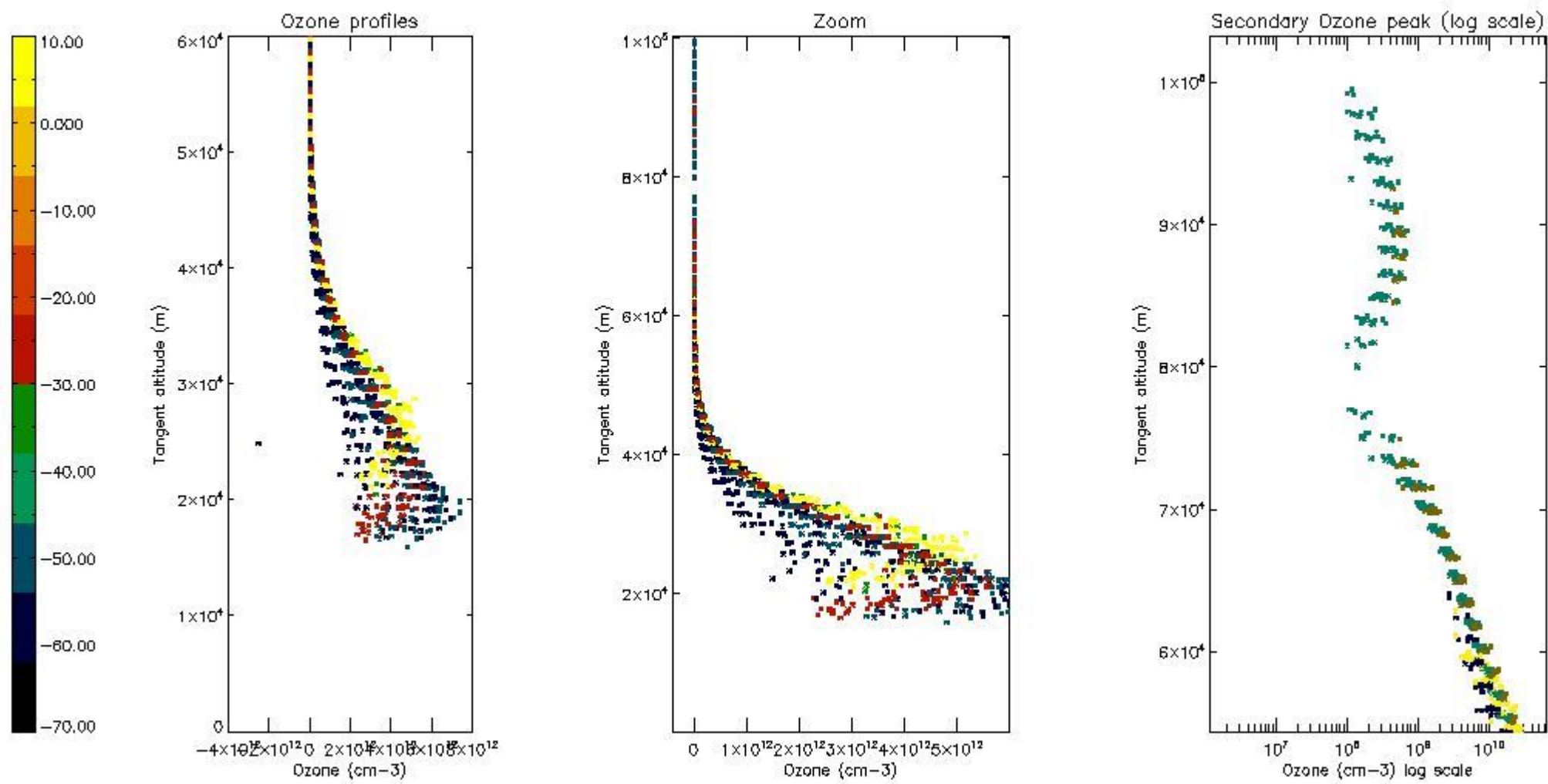
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



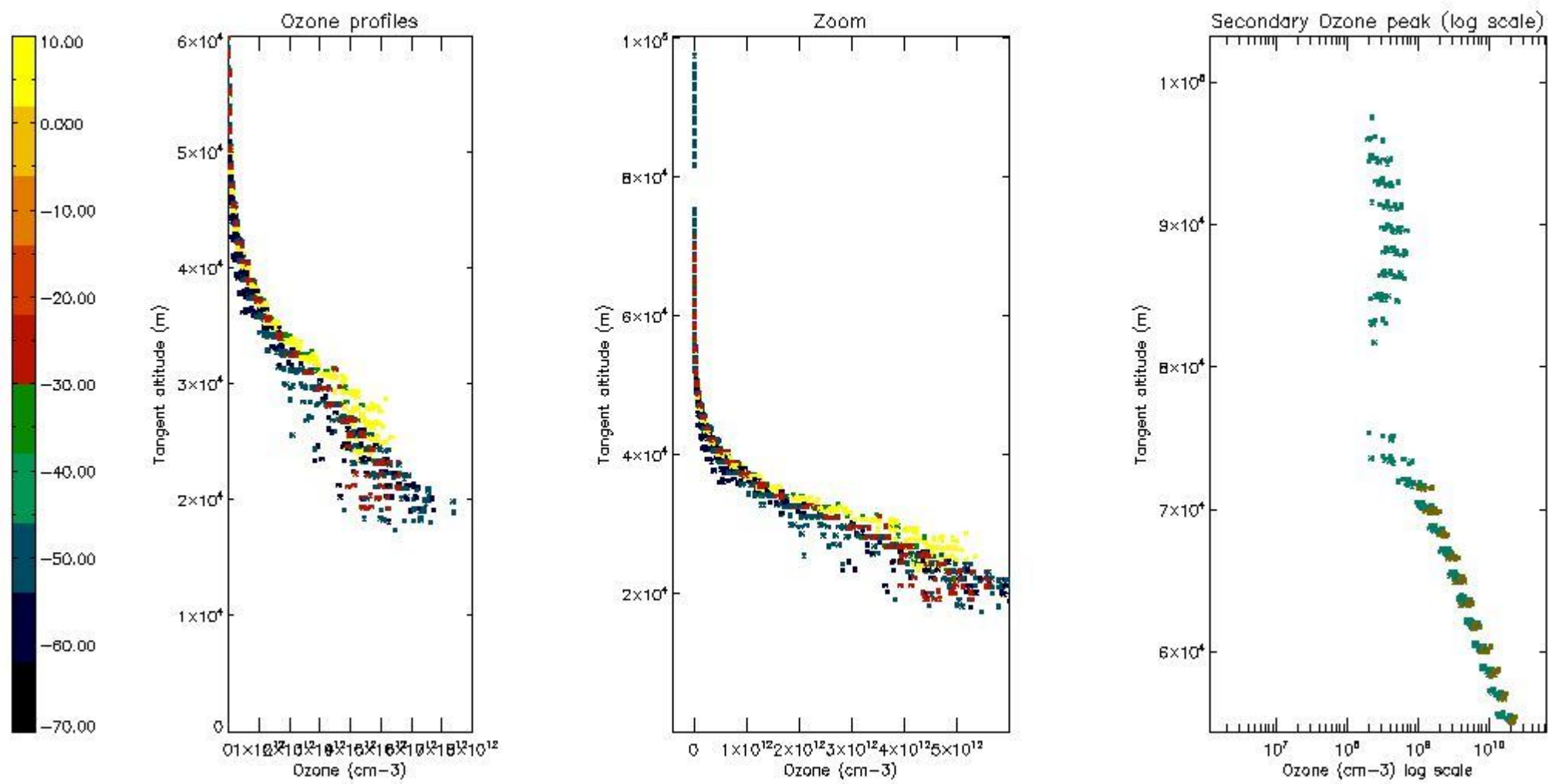
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



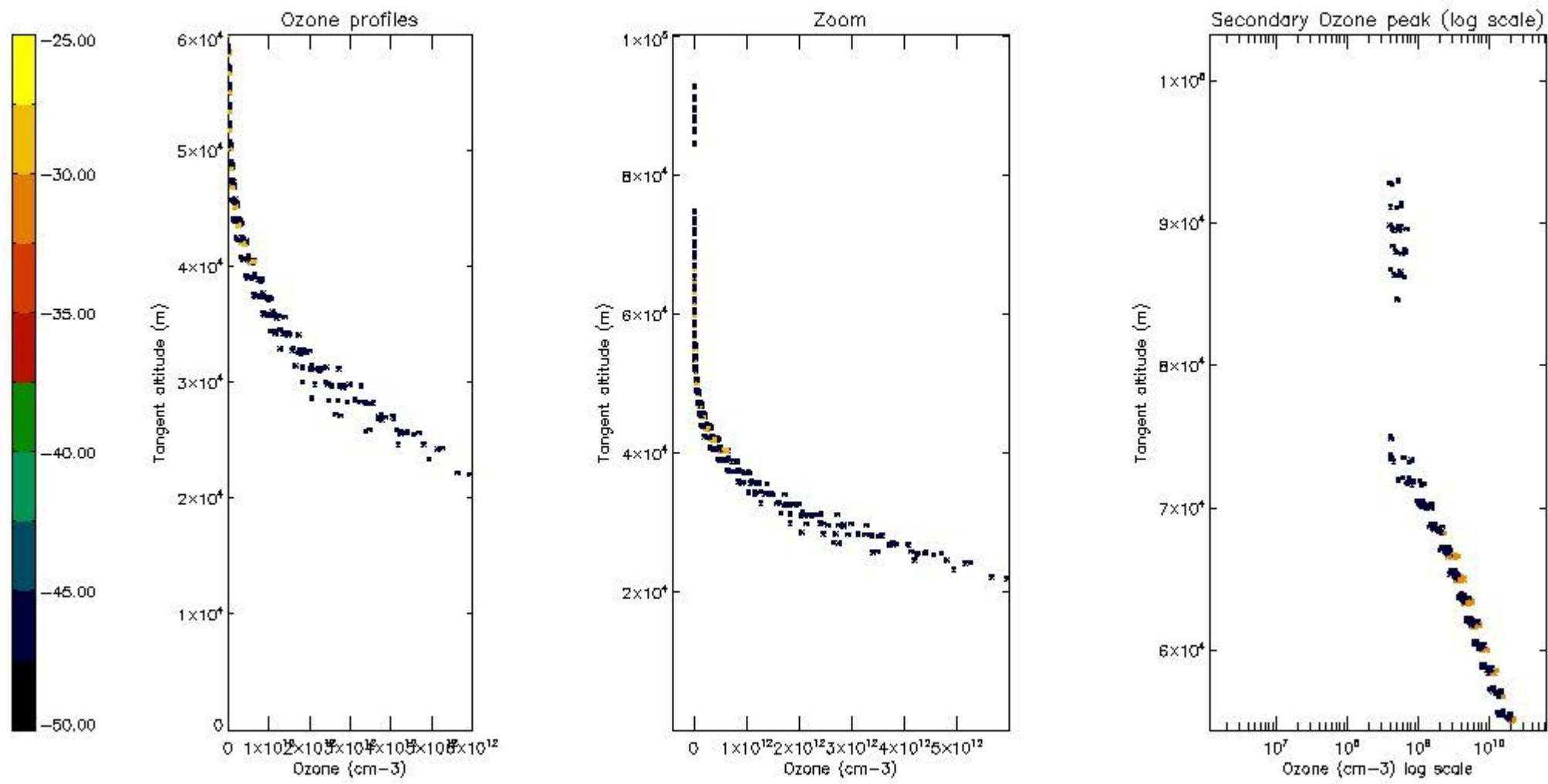
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



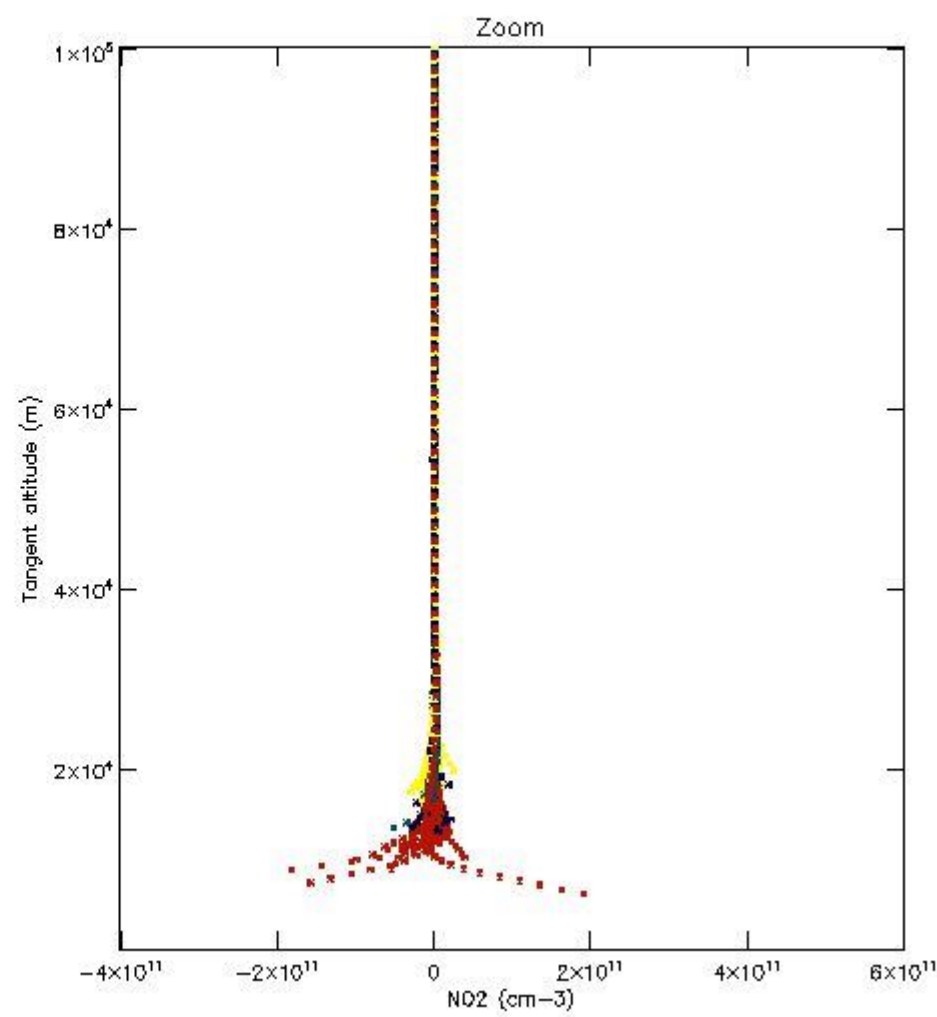
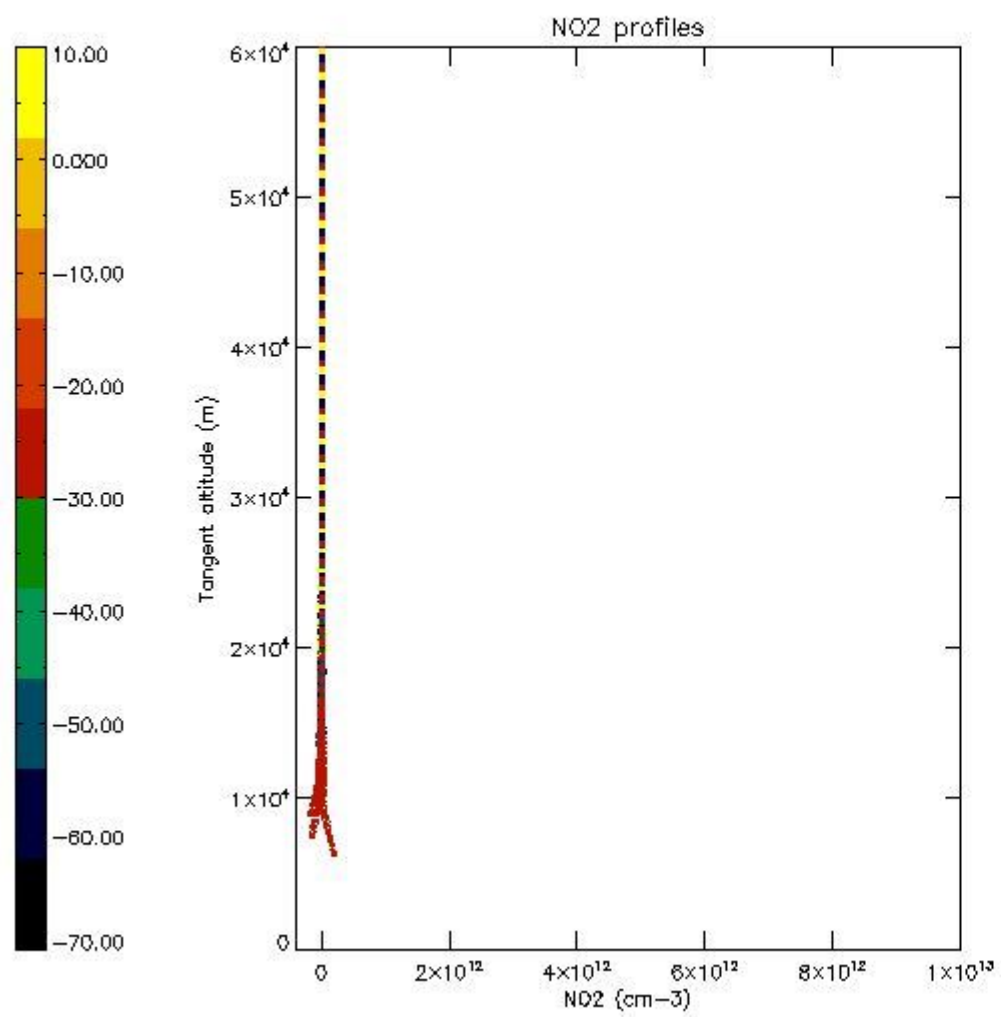
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



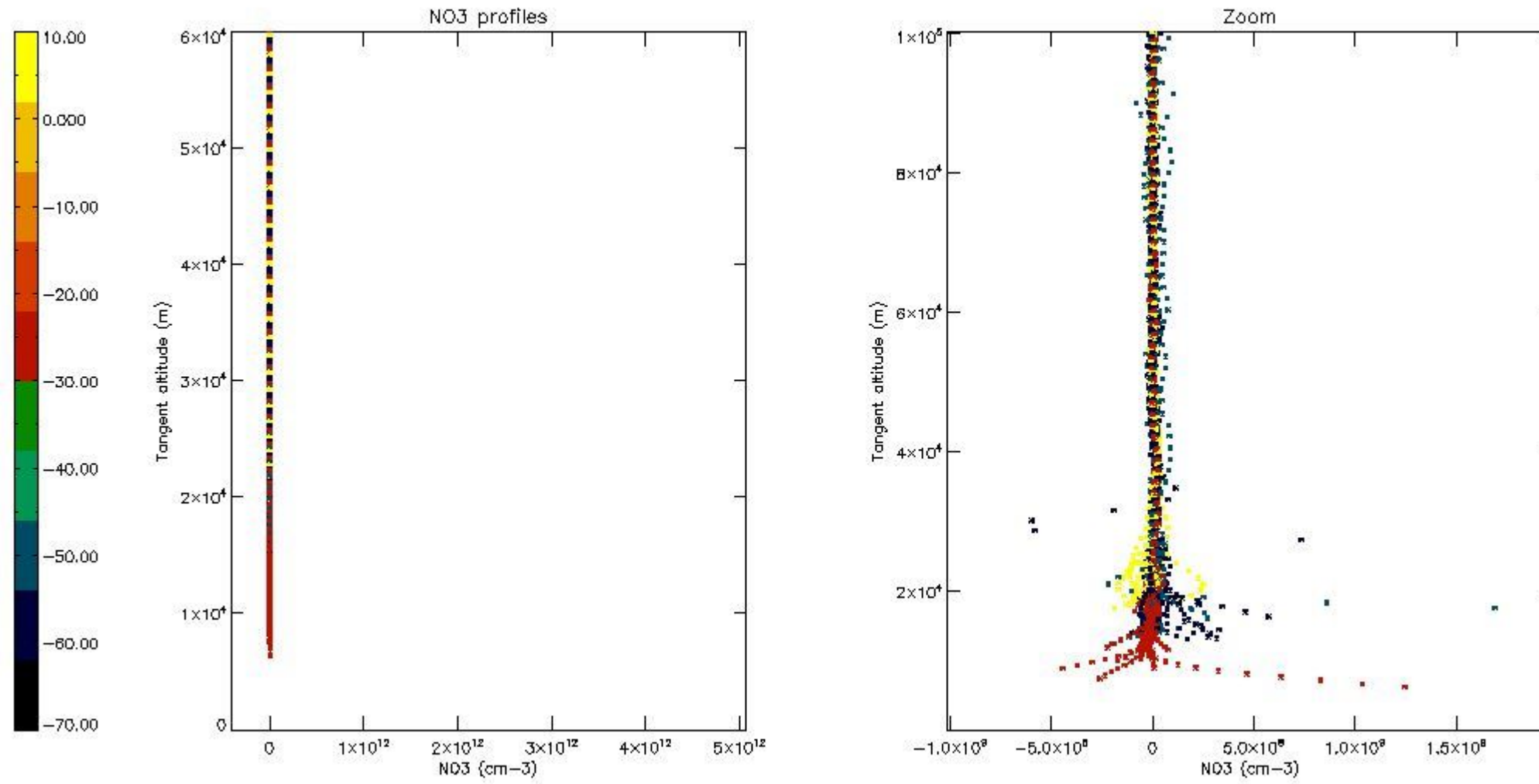
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

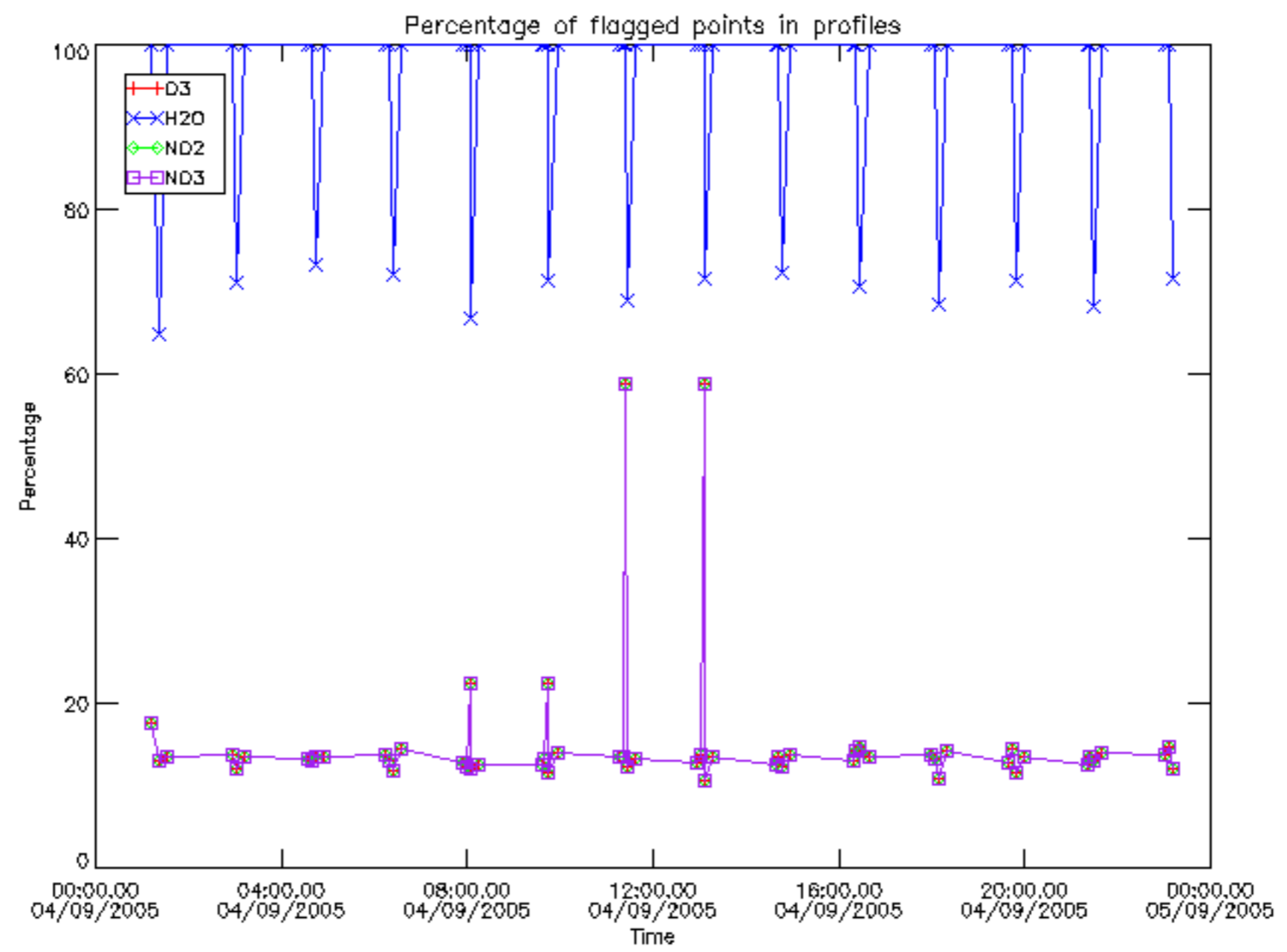
The colorbar represents the latitude.



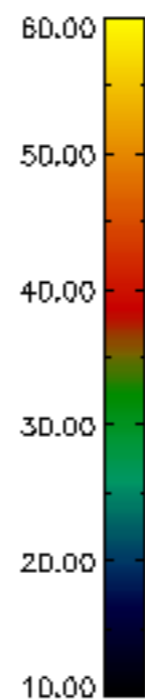
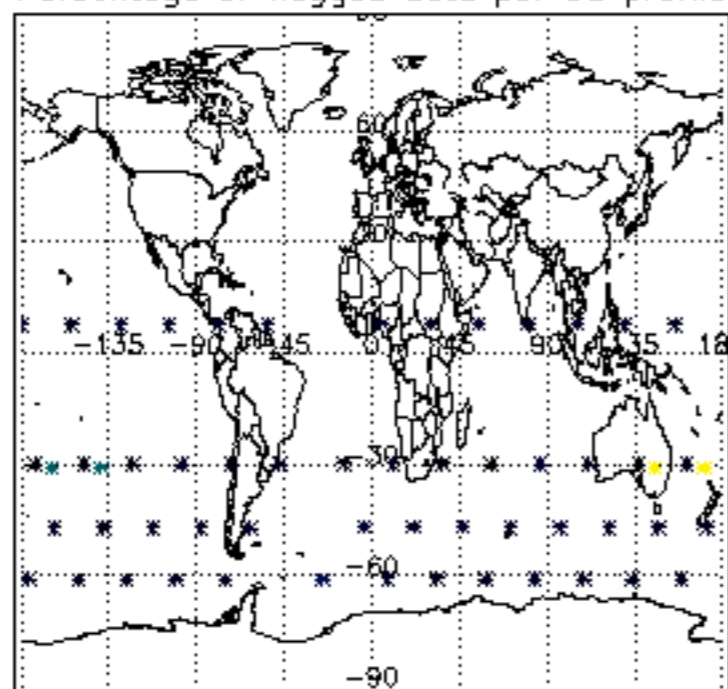
6. Auxiliary Data Files used for the production reported in section 2

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

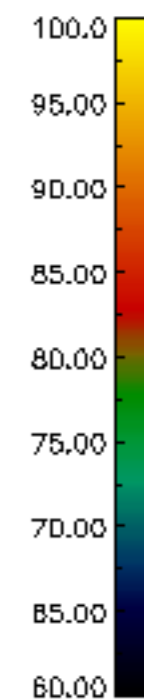
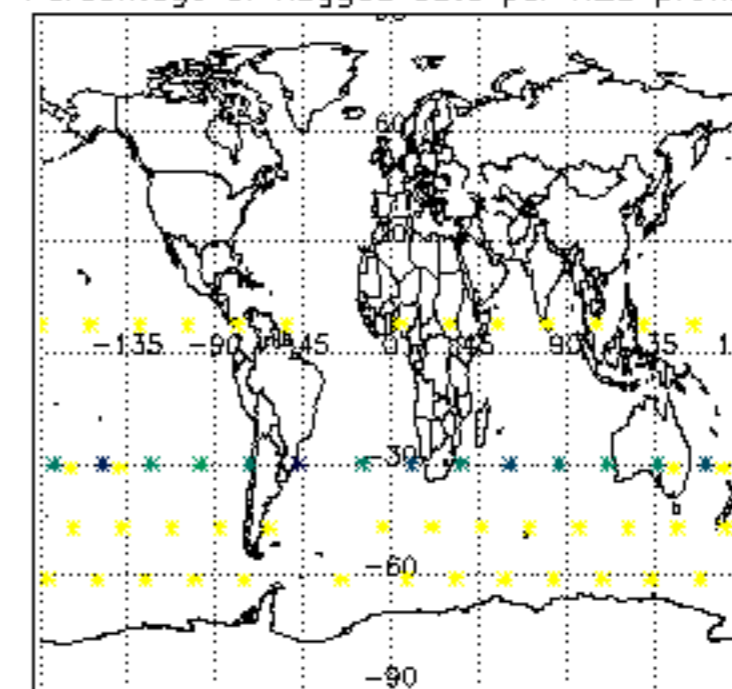
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	04-SEP-2005 01:12:52
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	04-SEP-2005 01:12:52
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	04-SEP-2005 01:12:52



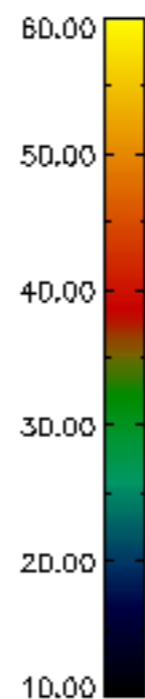
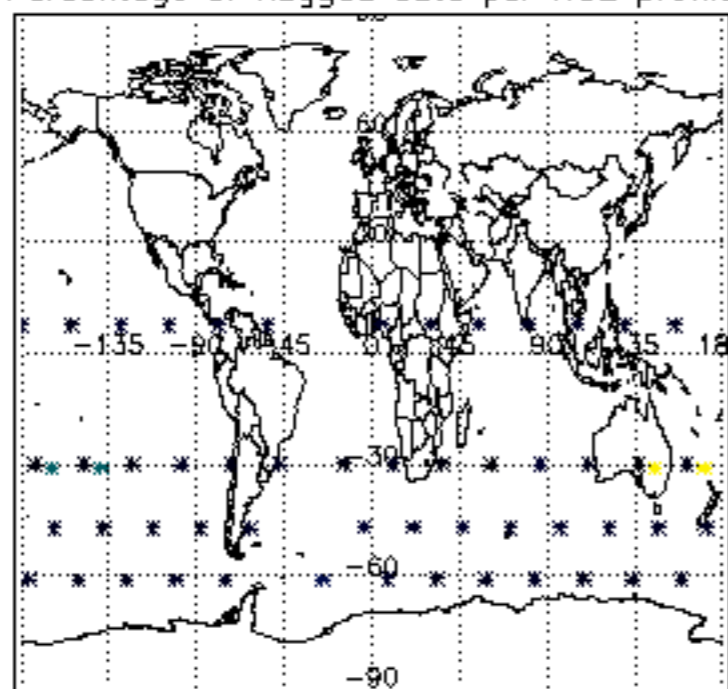
Percentage of flagged data per D3 profile



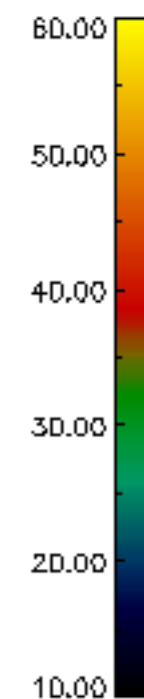
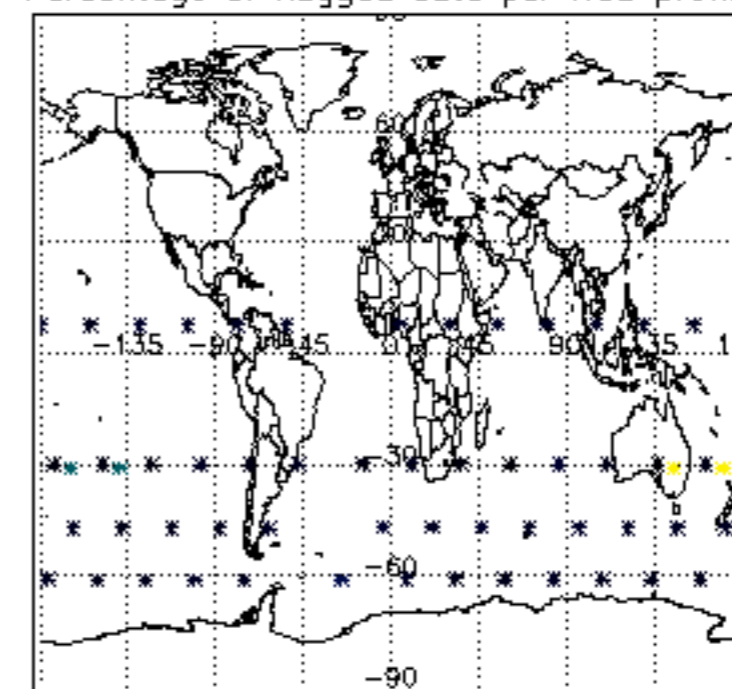
Percentage of flagged data per H2O profile

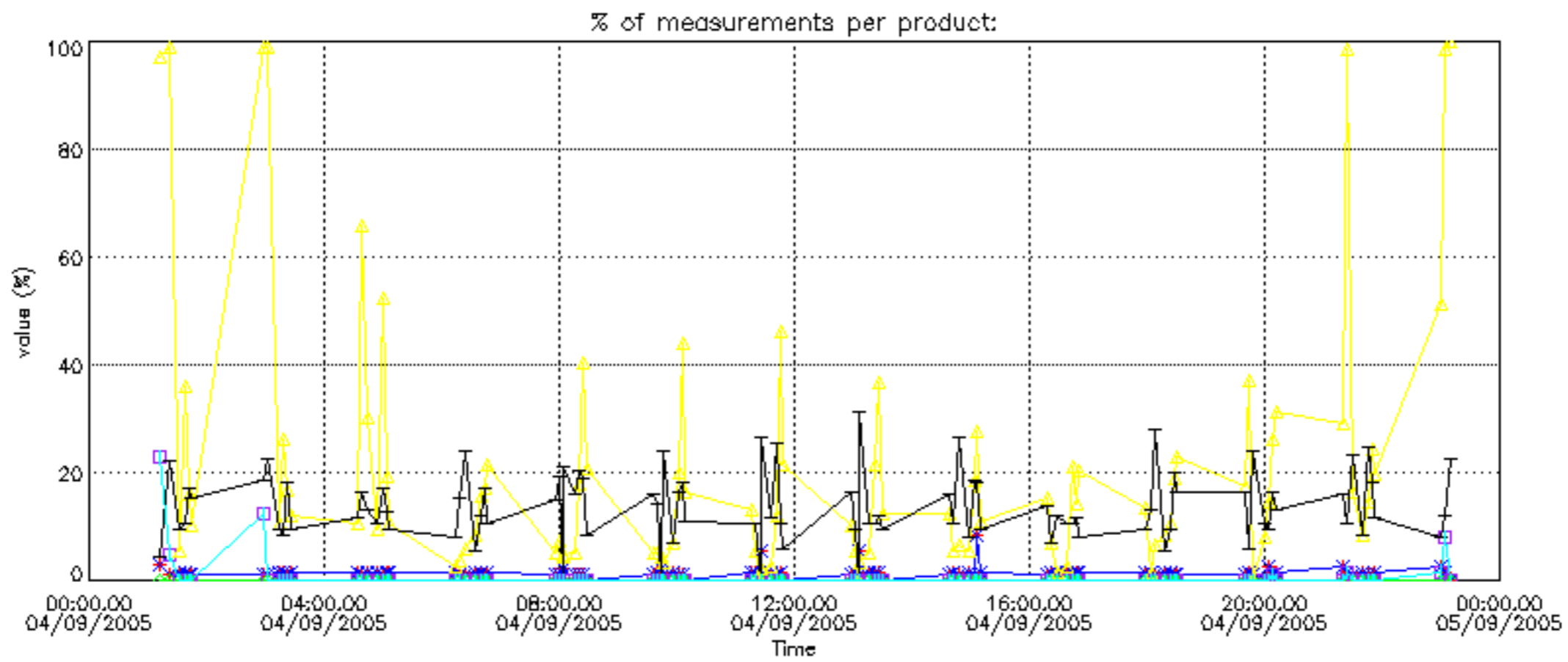


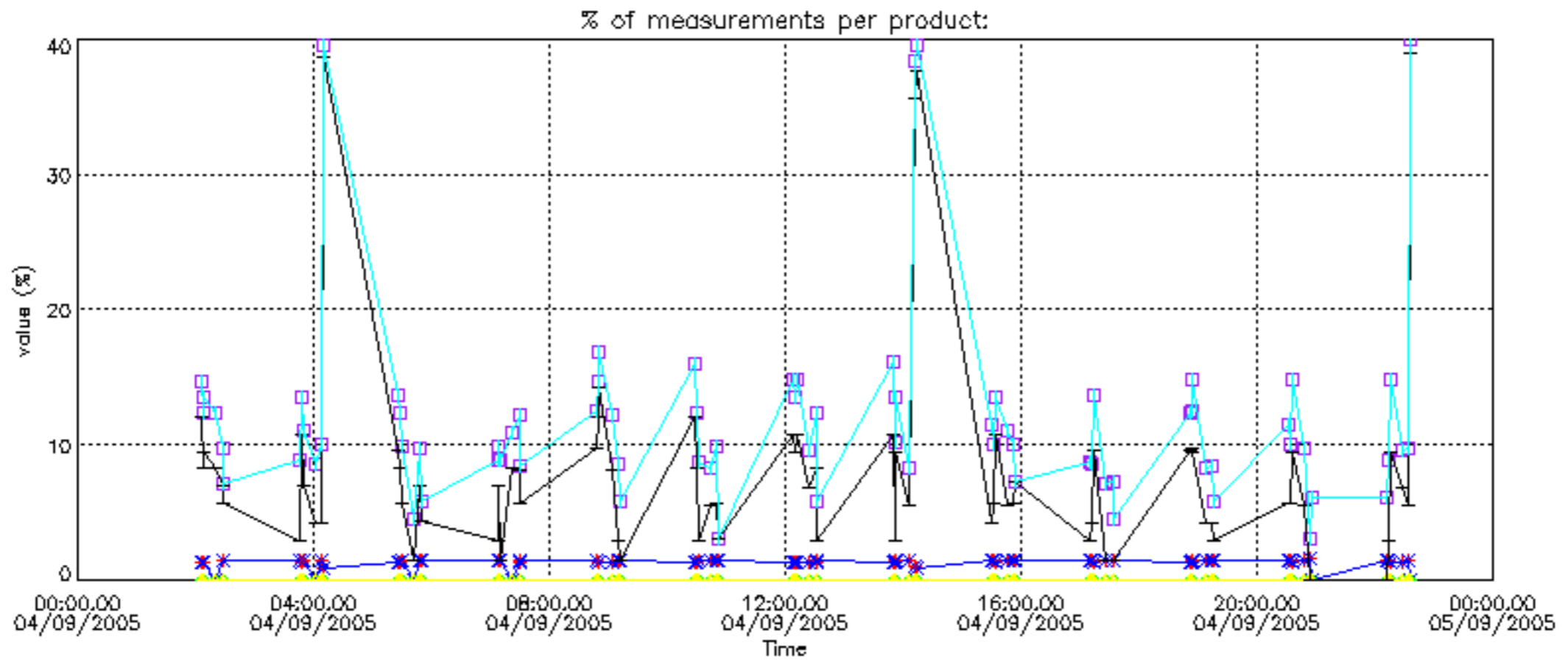
Percentage of flagged data per NO2 profile



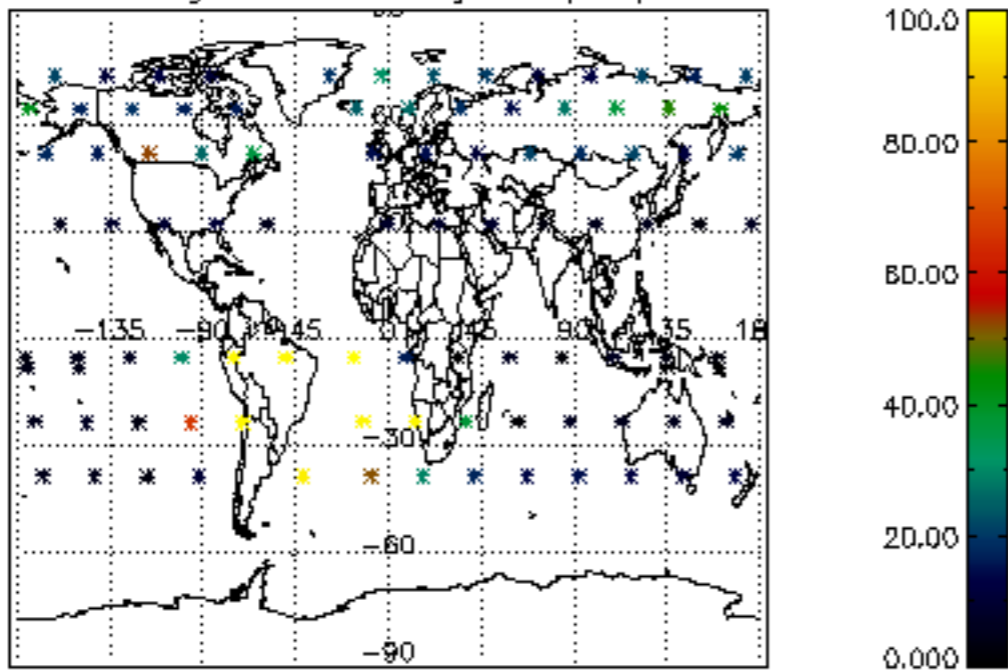
Percentage of flagged data per NO3 profile



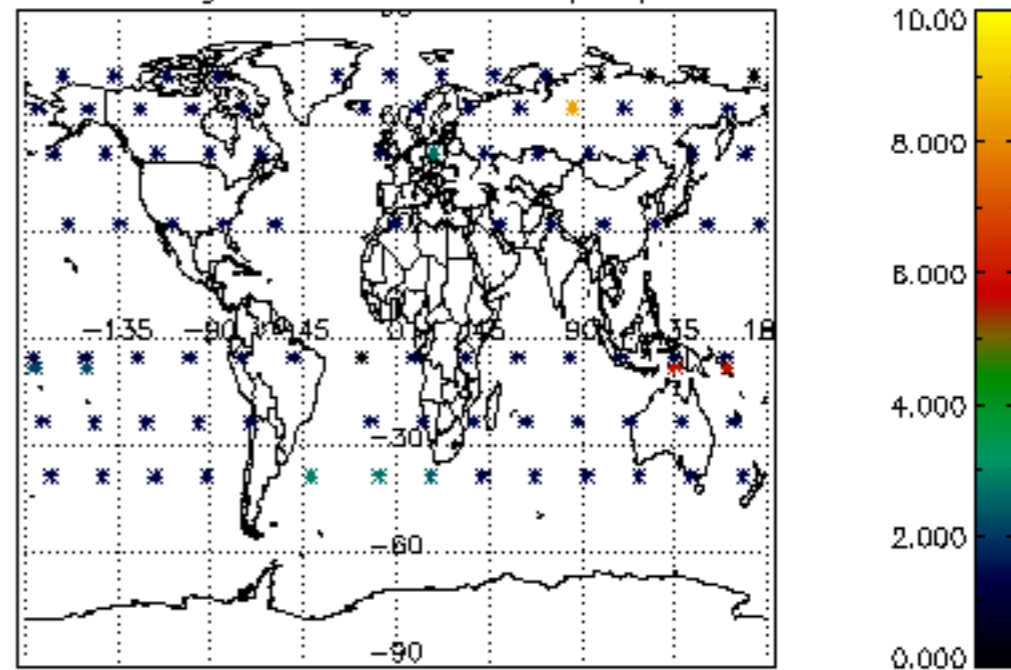




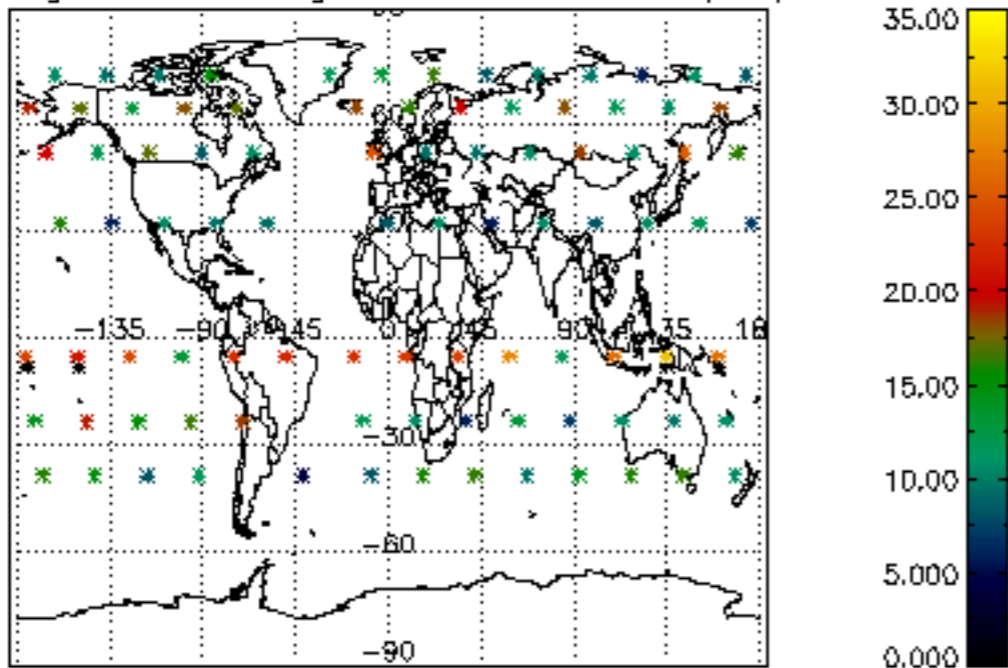
Percentage of cosmic ray hits per profile



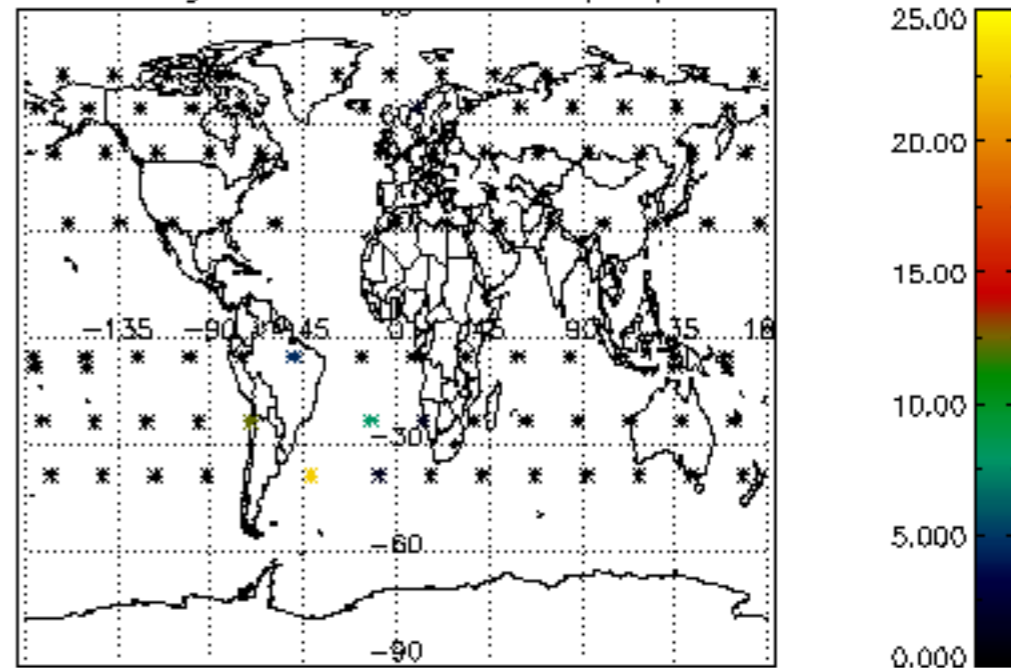
Percentage of datation errors per profile



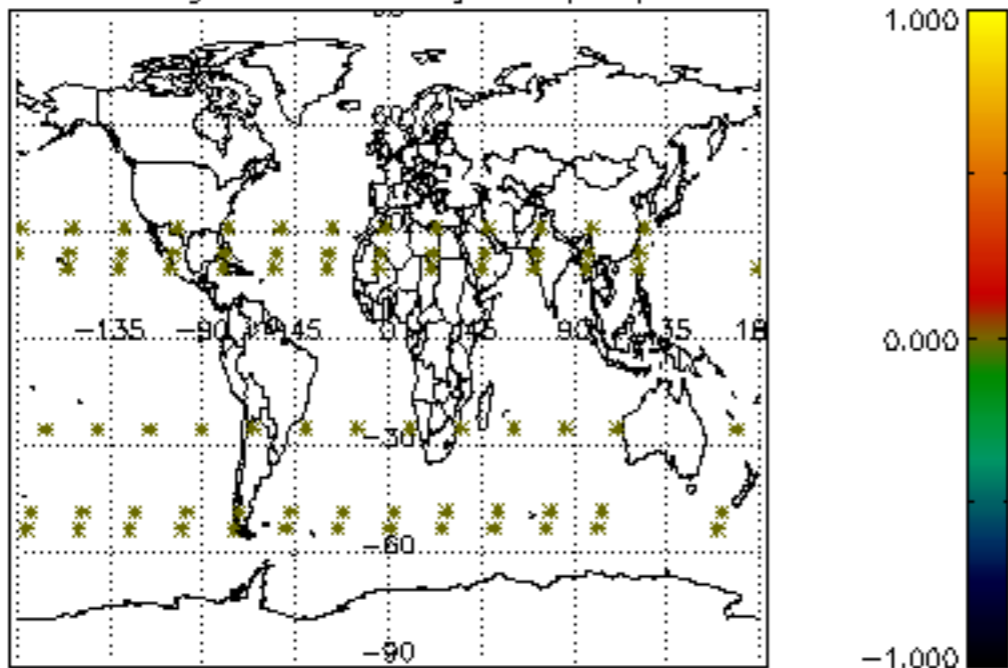
Percentage of star falling outside central band per profile



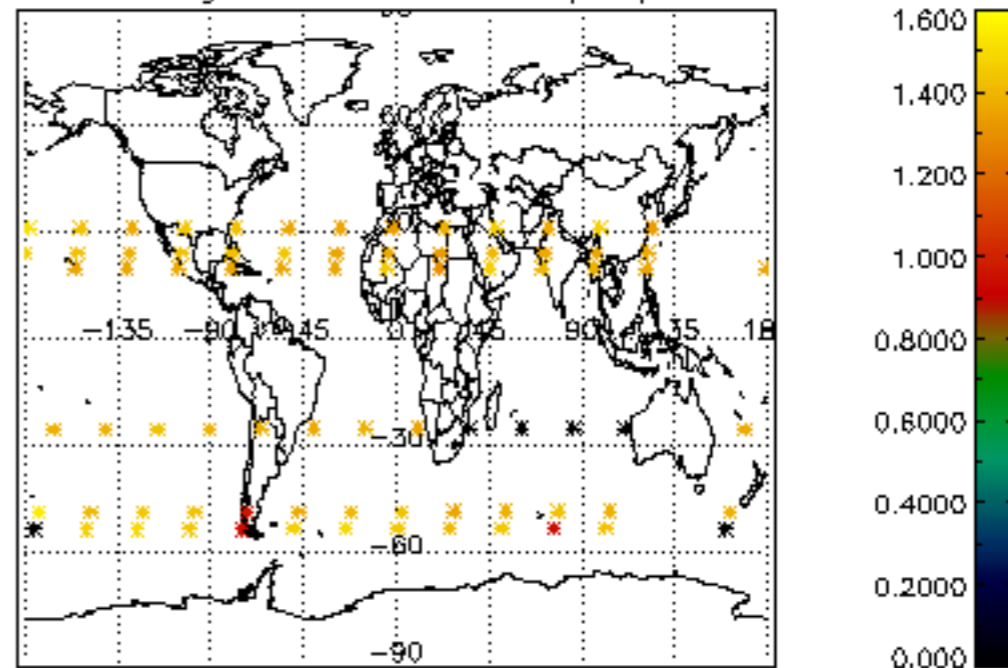
Percentage of saturation errors per profile



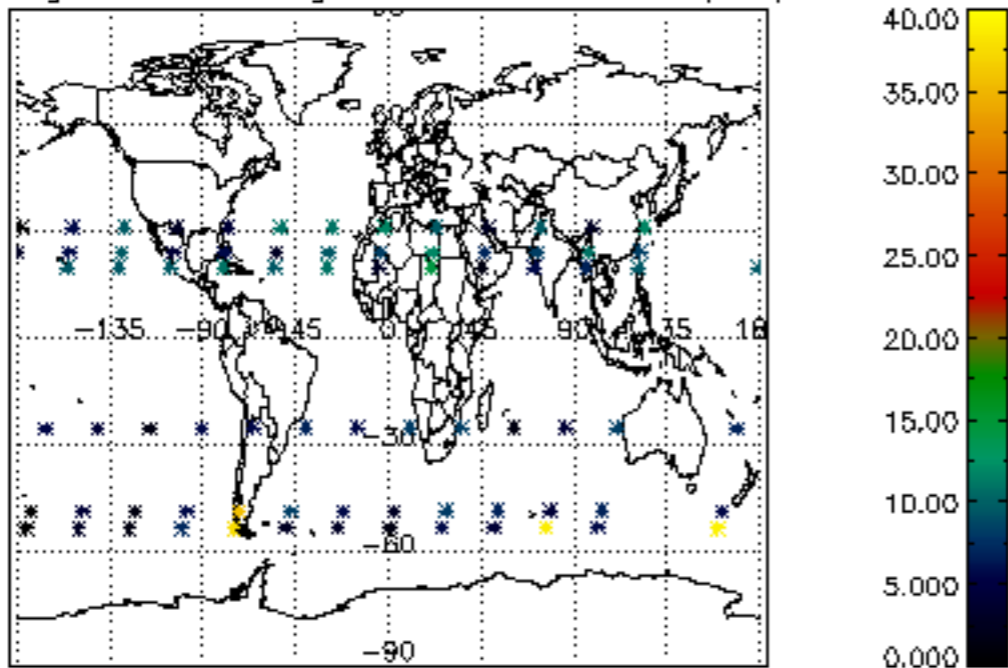
Percentage of cosmic ray hits per profile



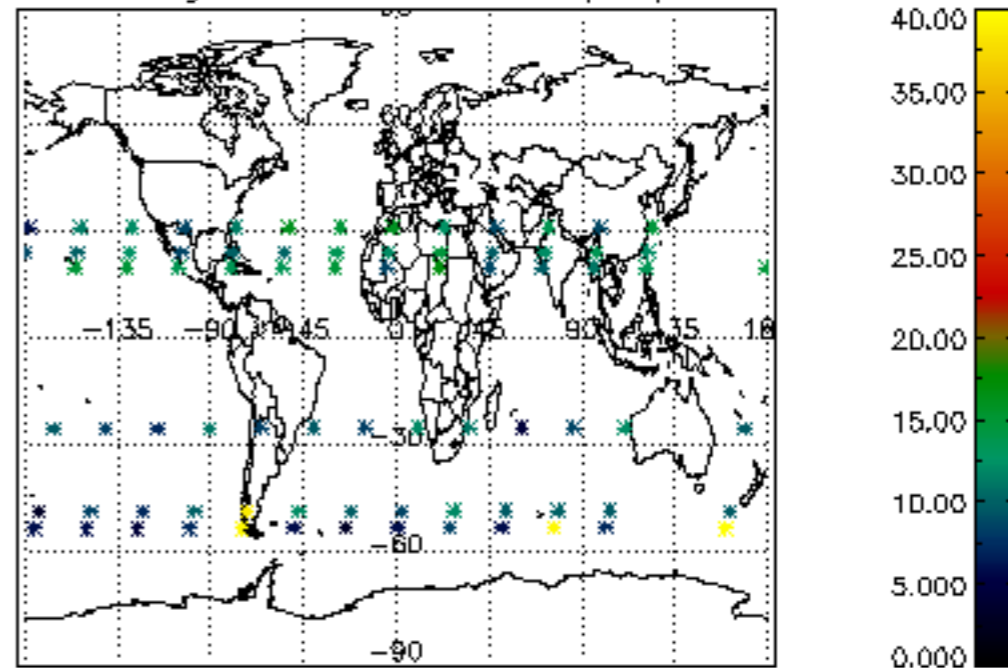
Percentage of datation errors per profile

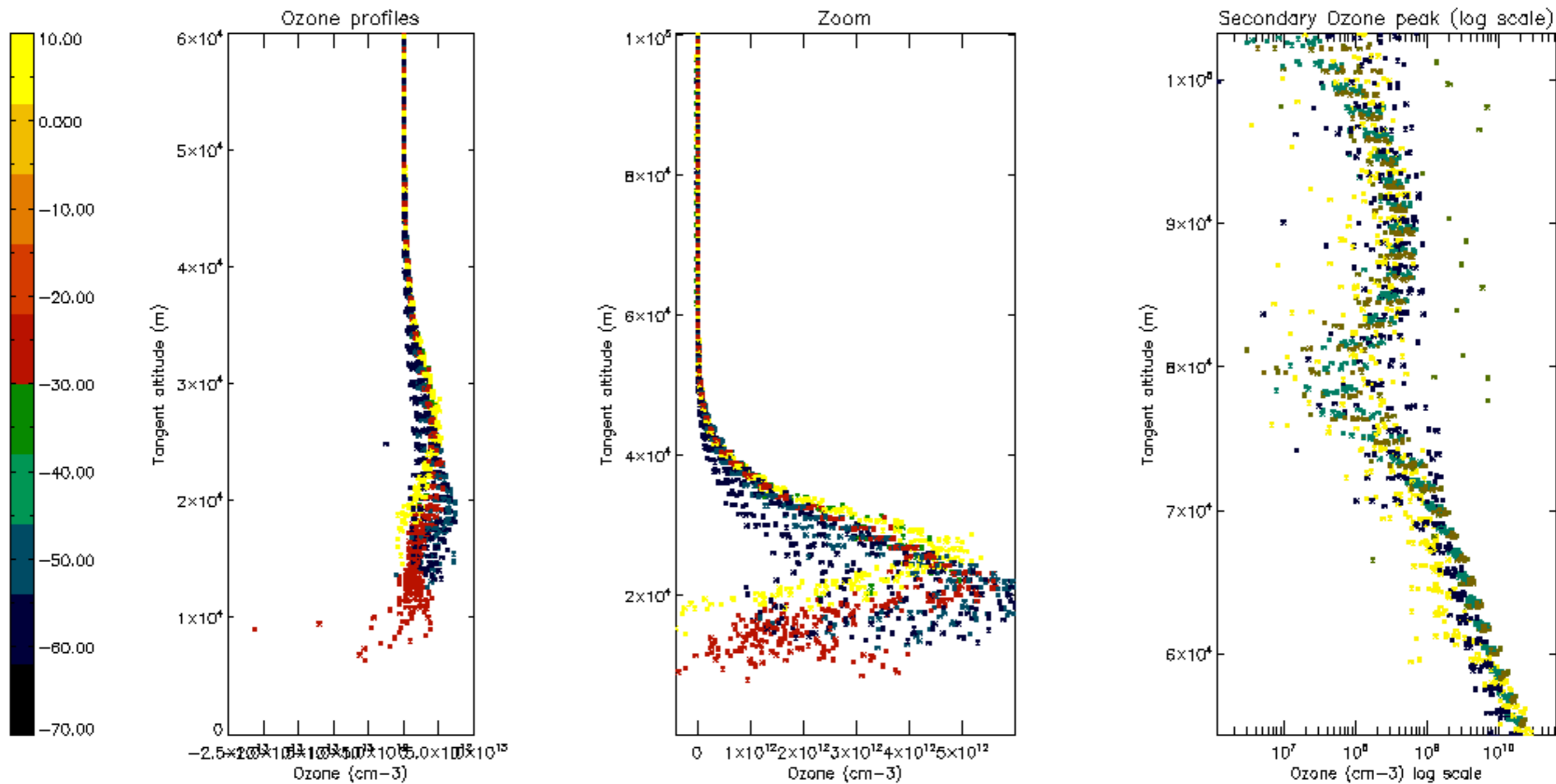


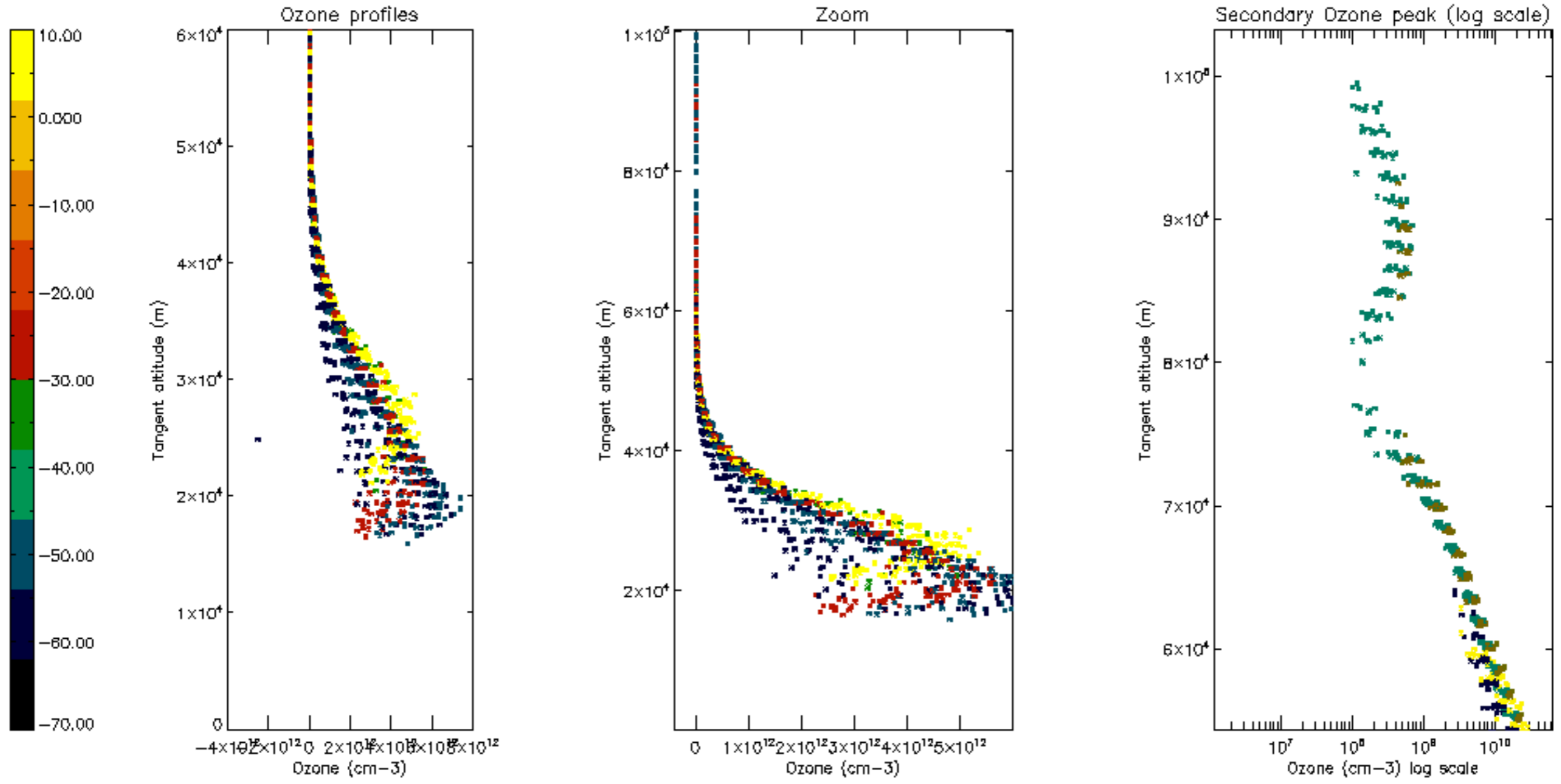
Percentage of star falling outside central band per profile

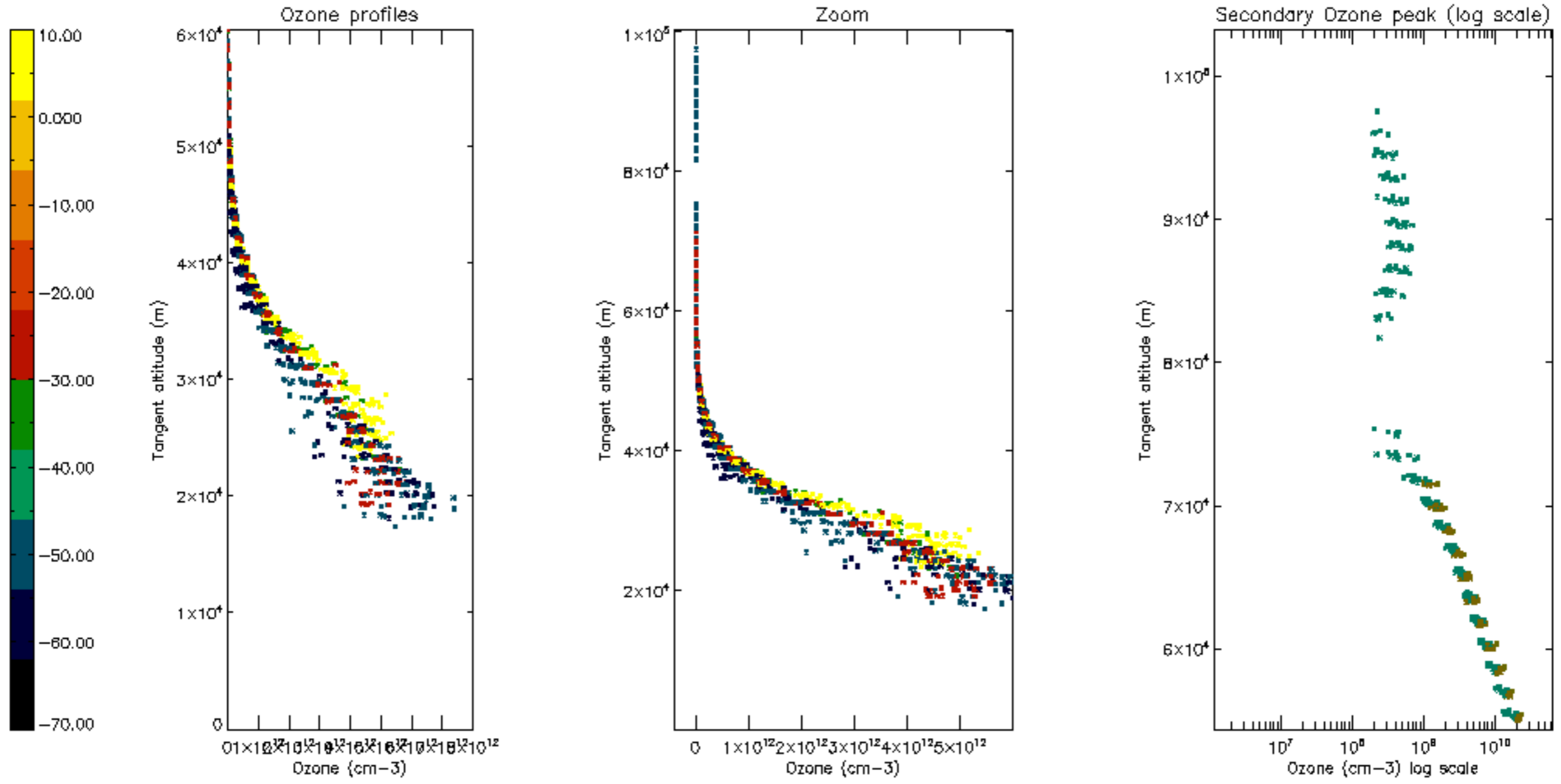


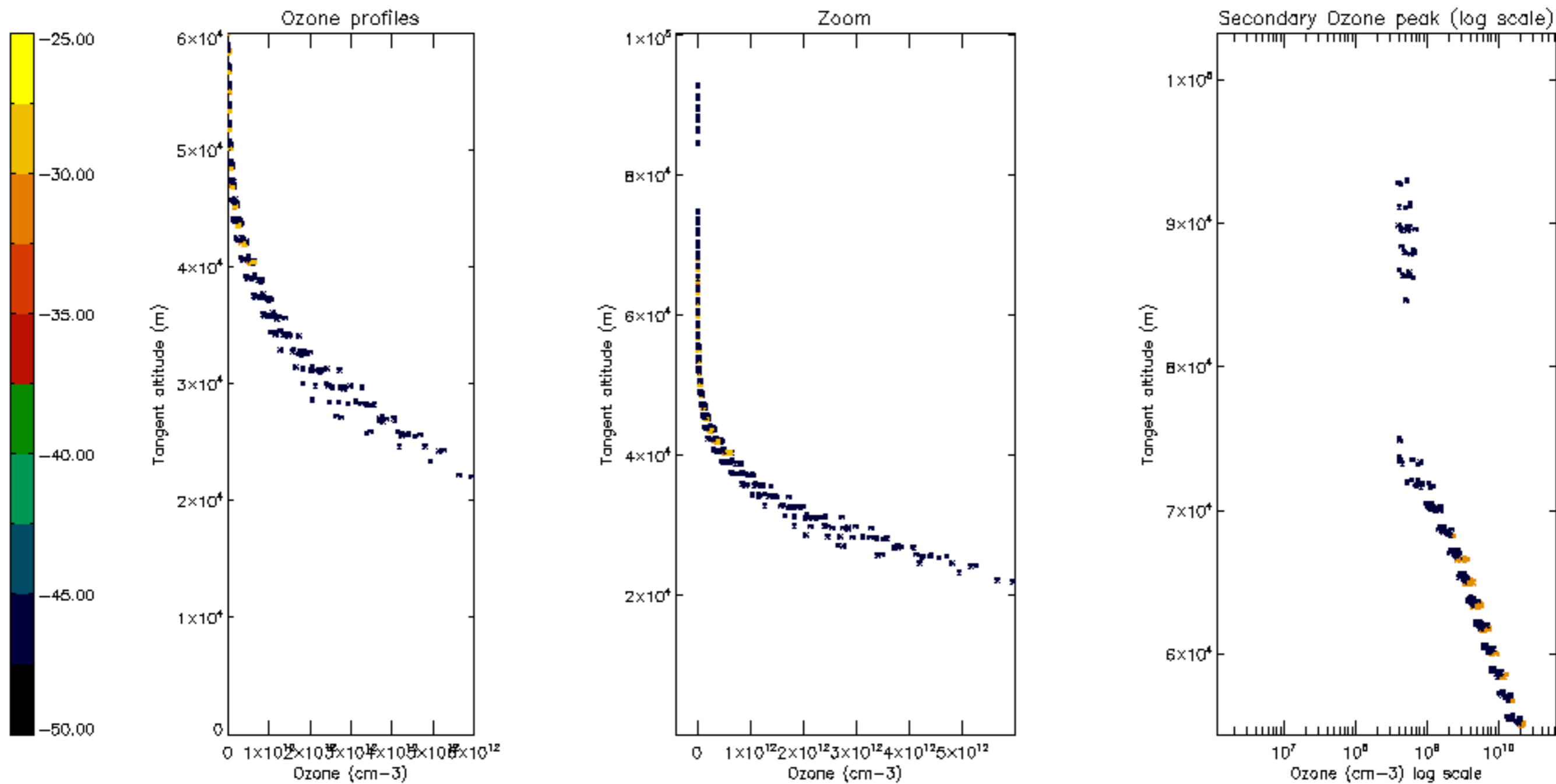
Percentage of saturation errors per profile

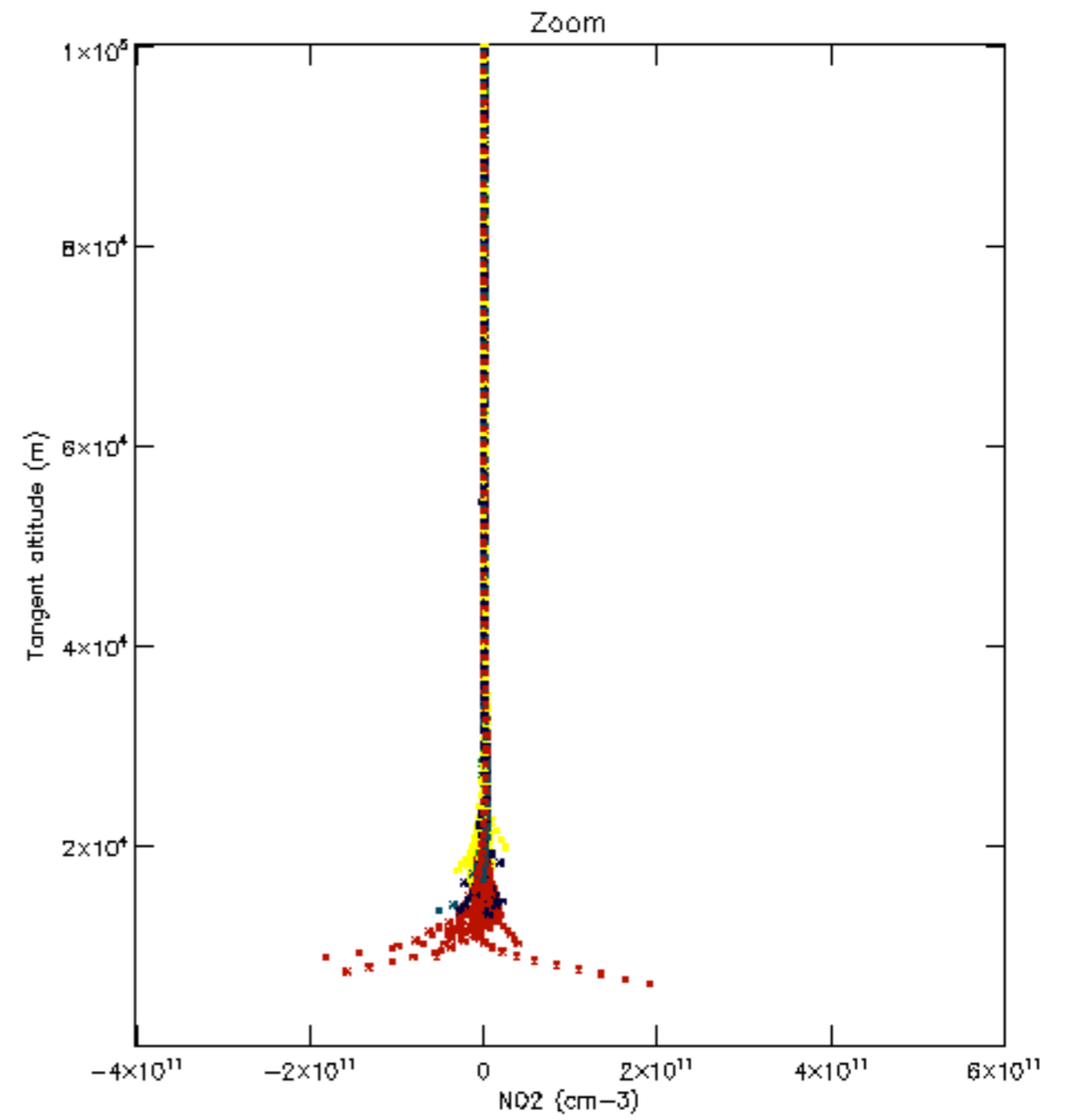
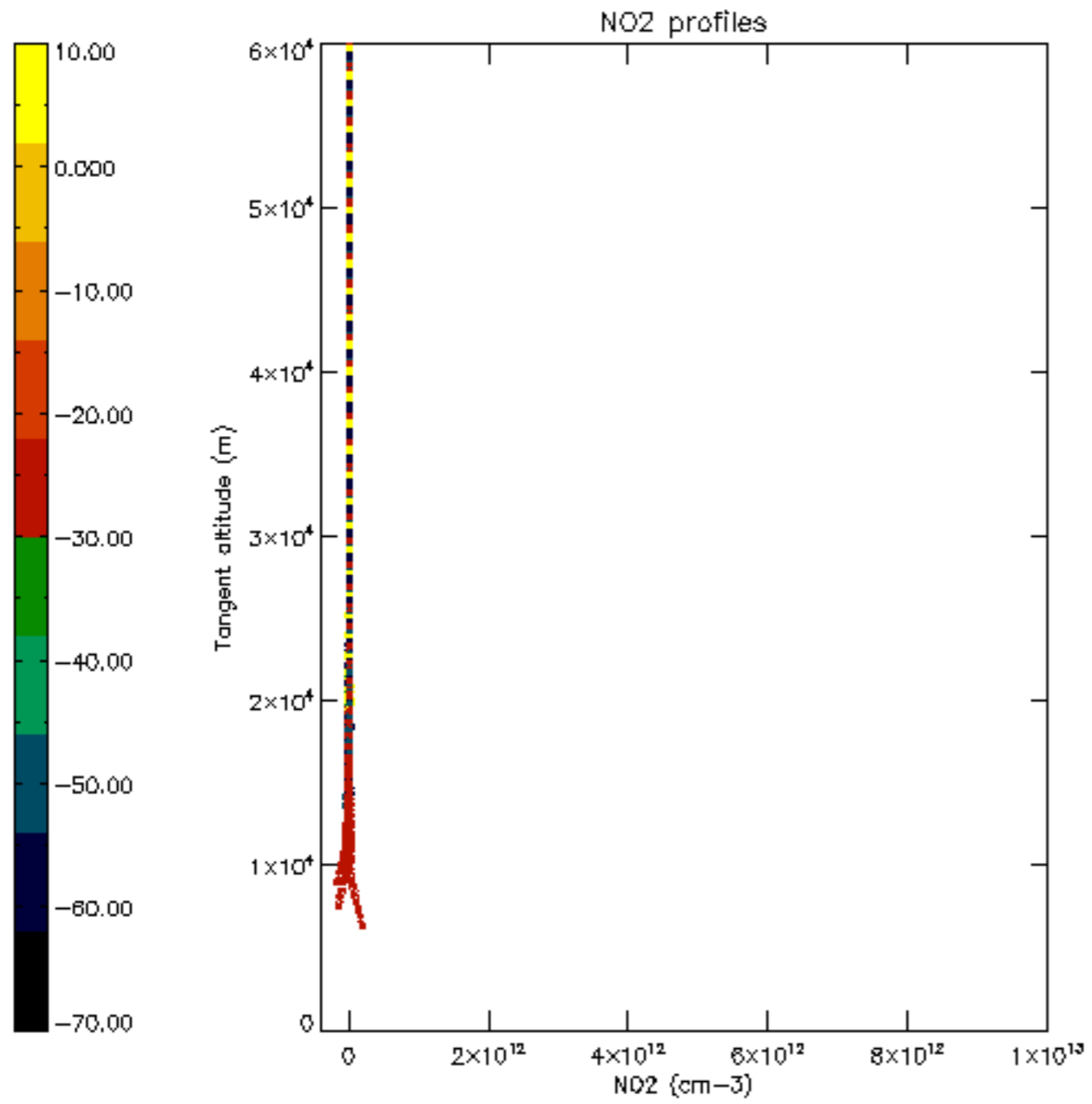


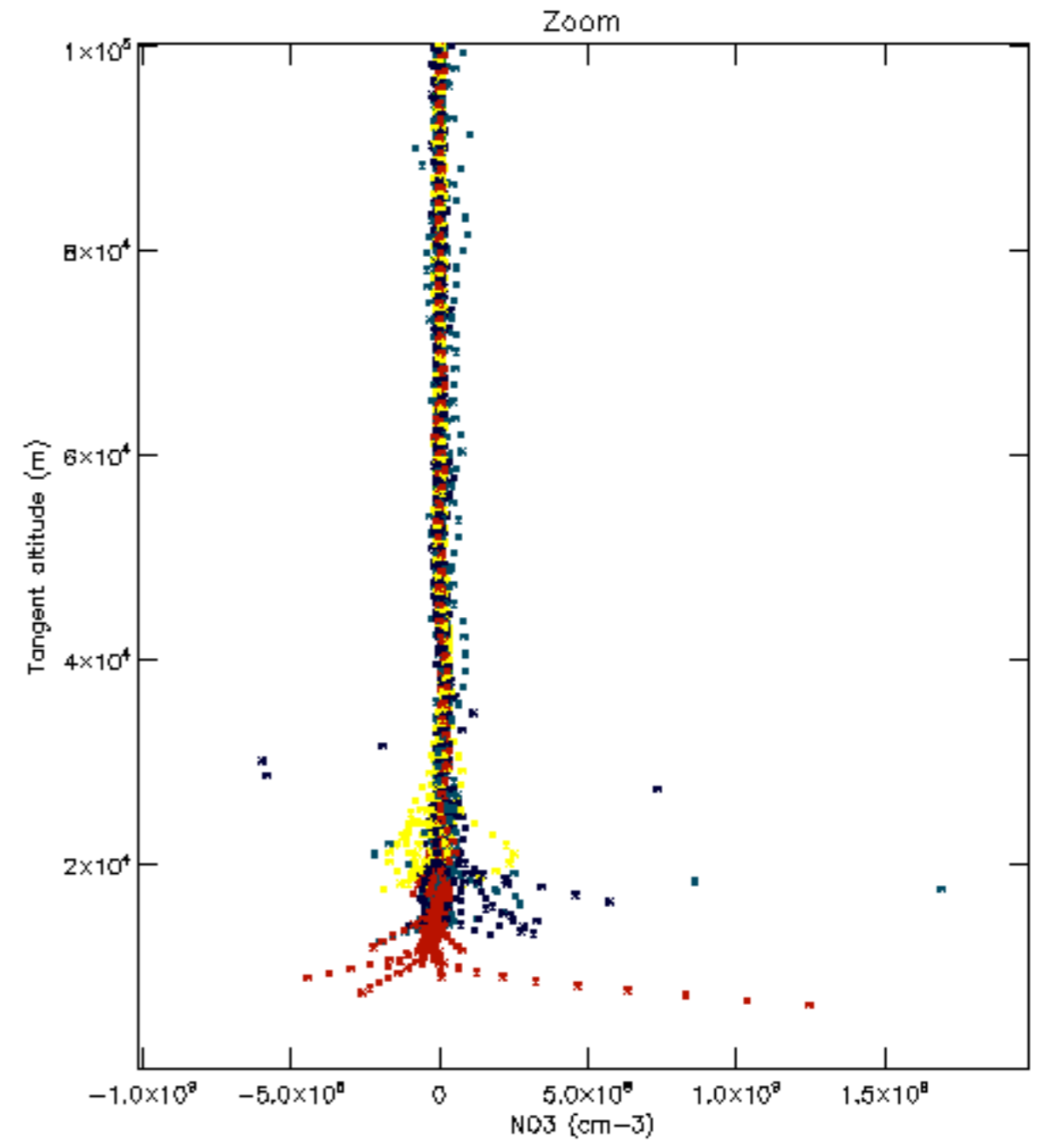
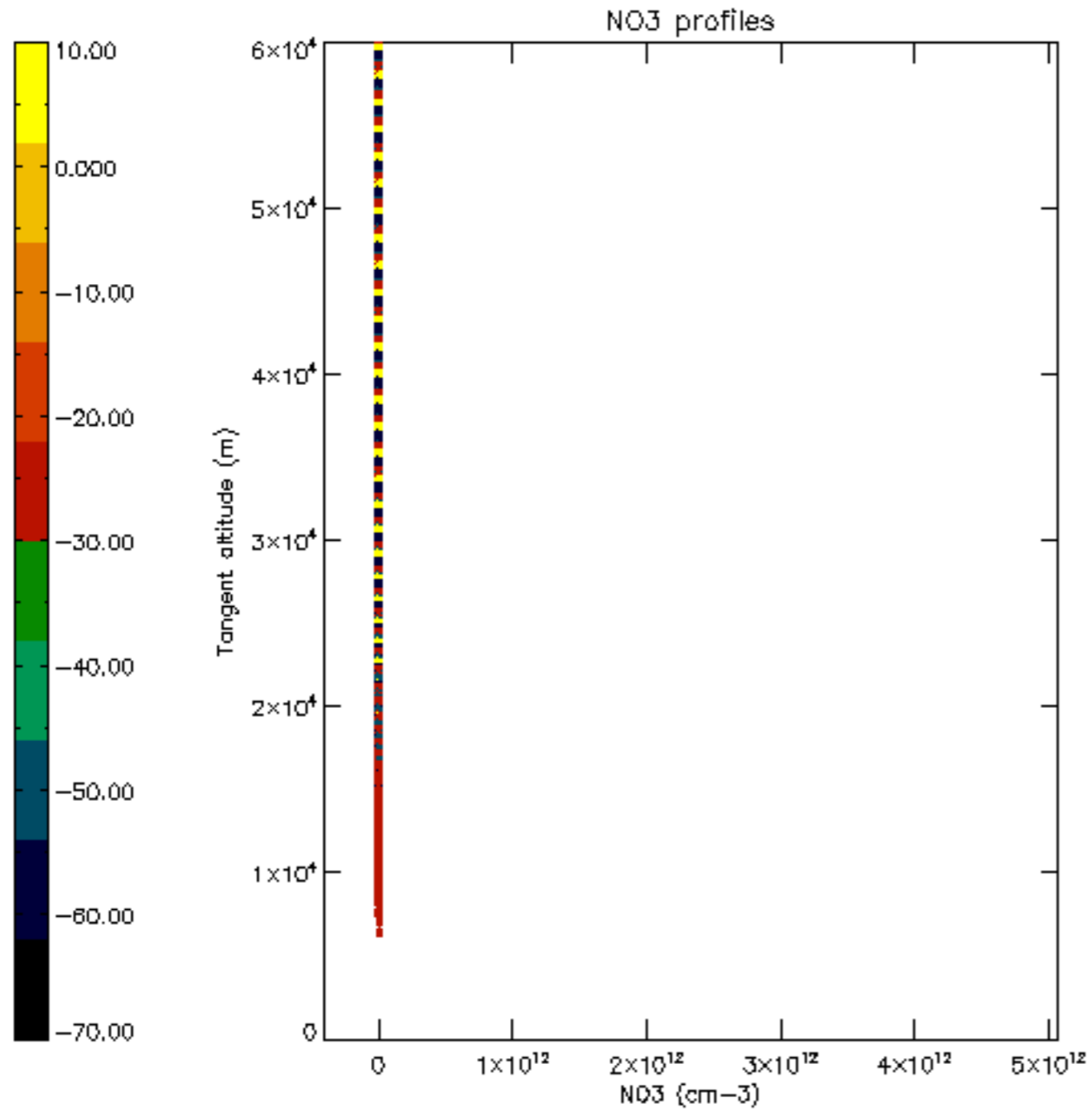


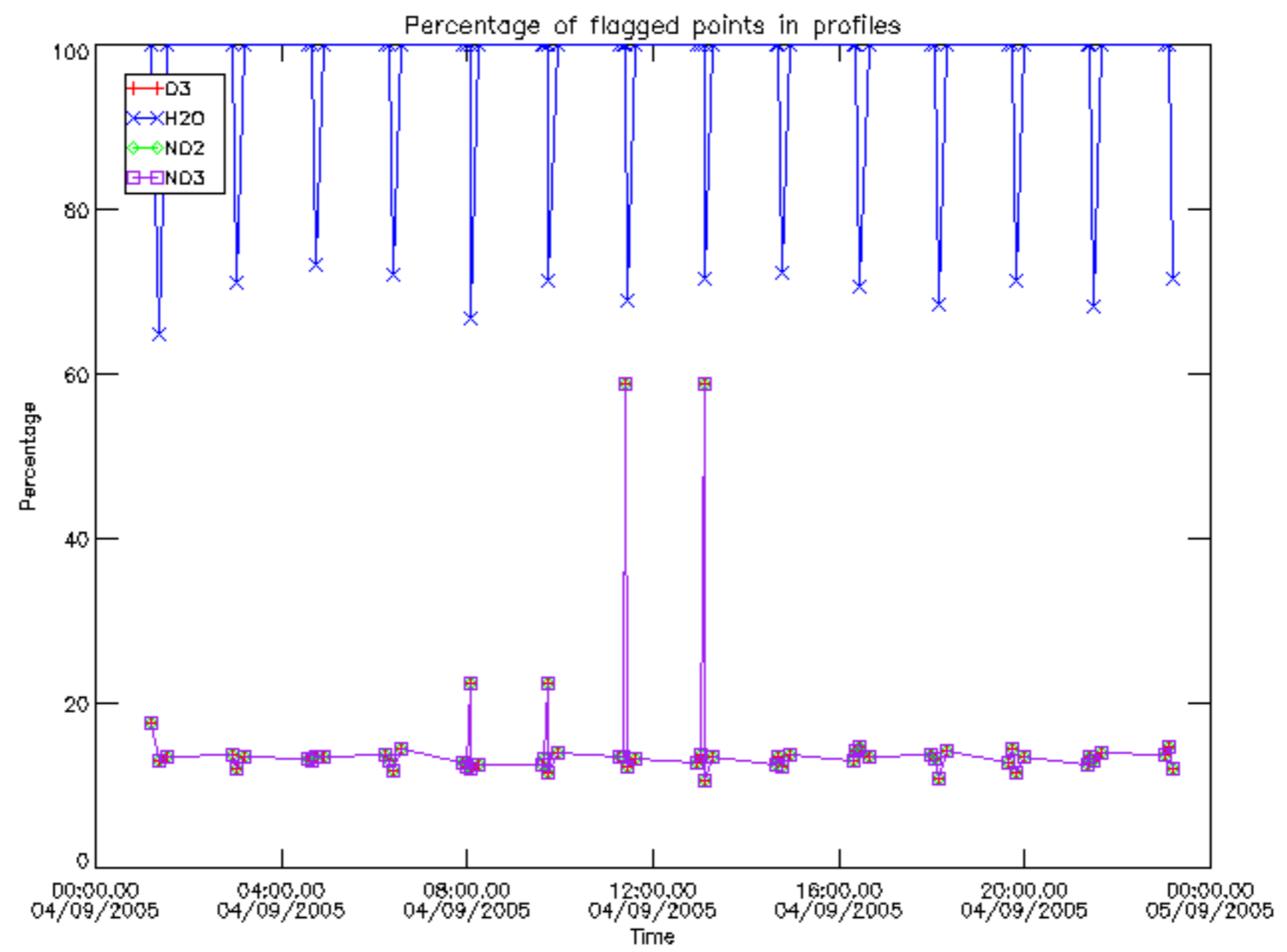




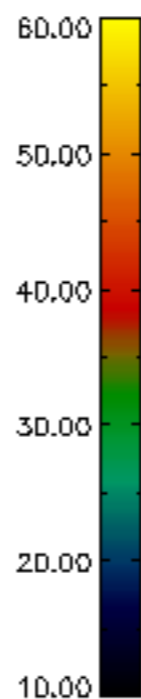
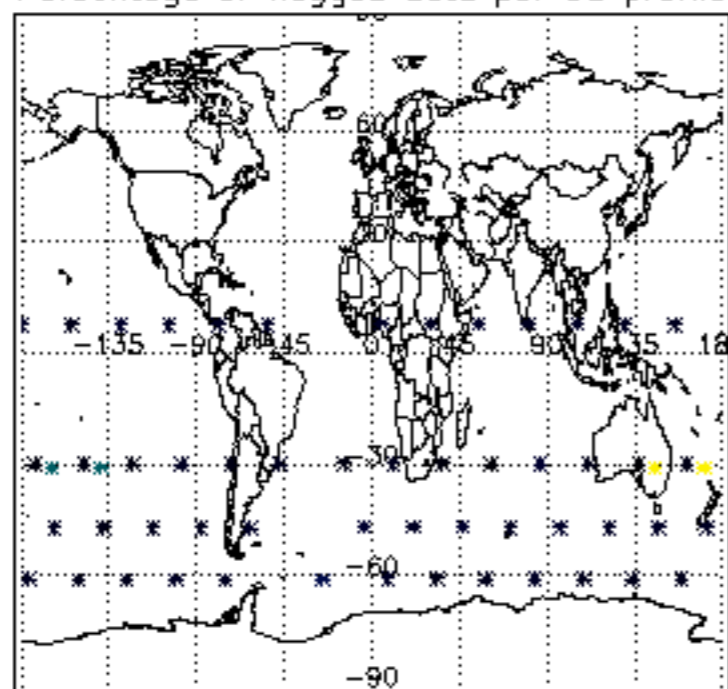




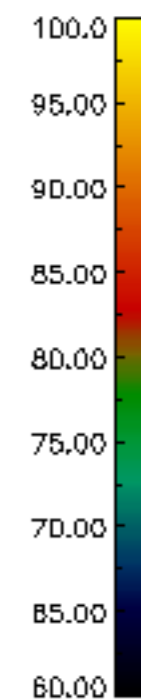
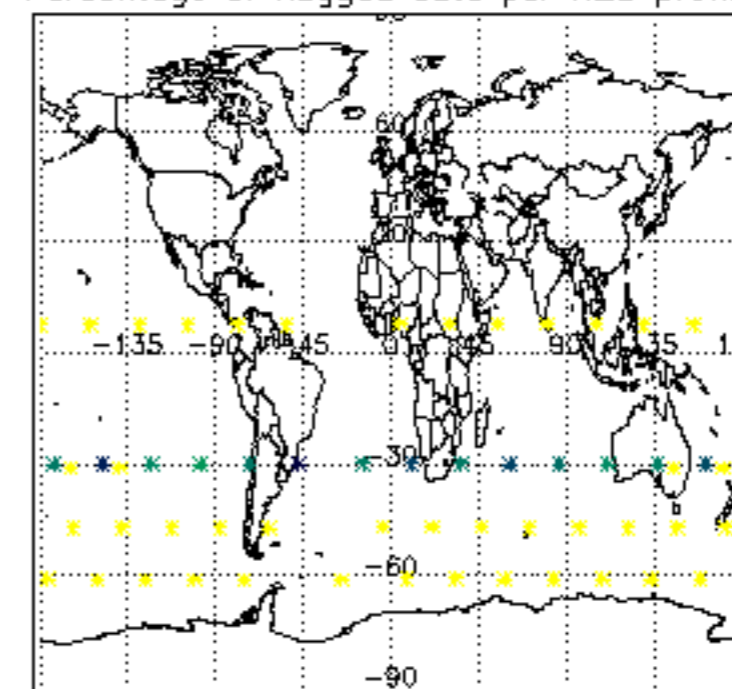




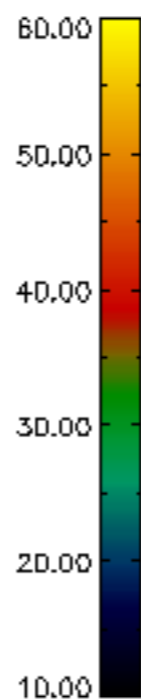
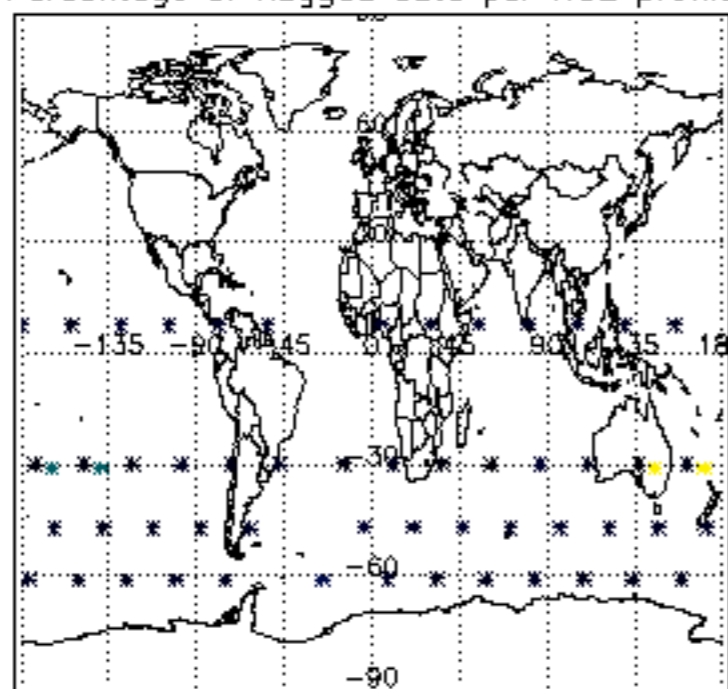
Percentage of flagged data per D3 profile



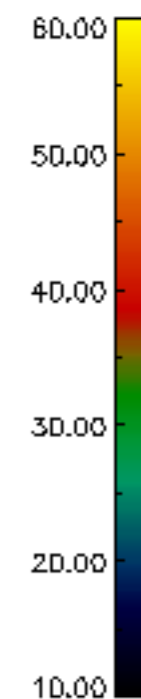
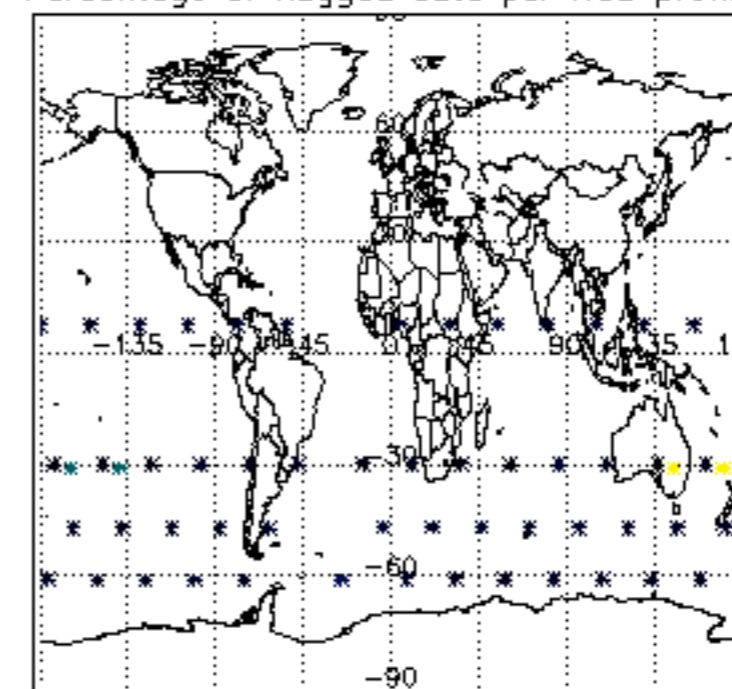
Percentage of flagged data per H2O profile

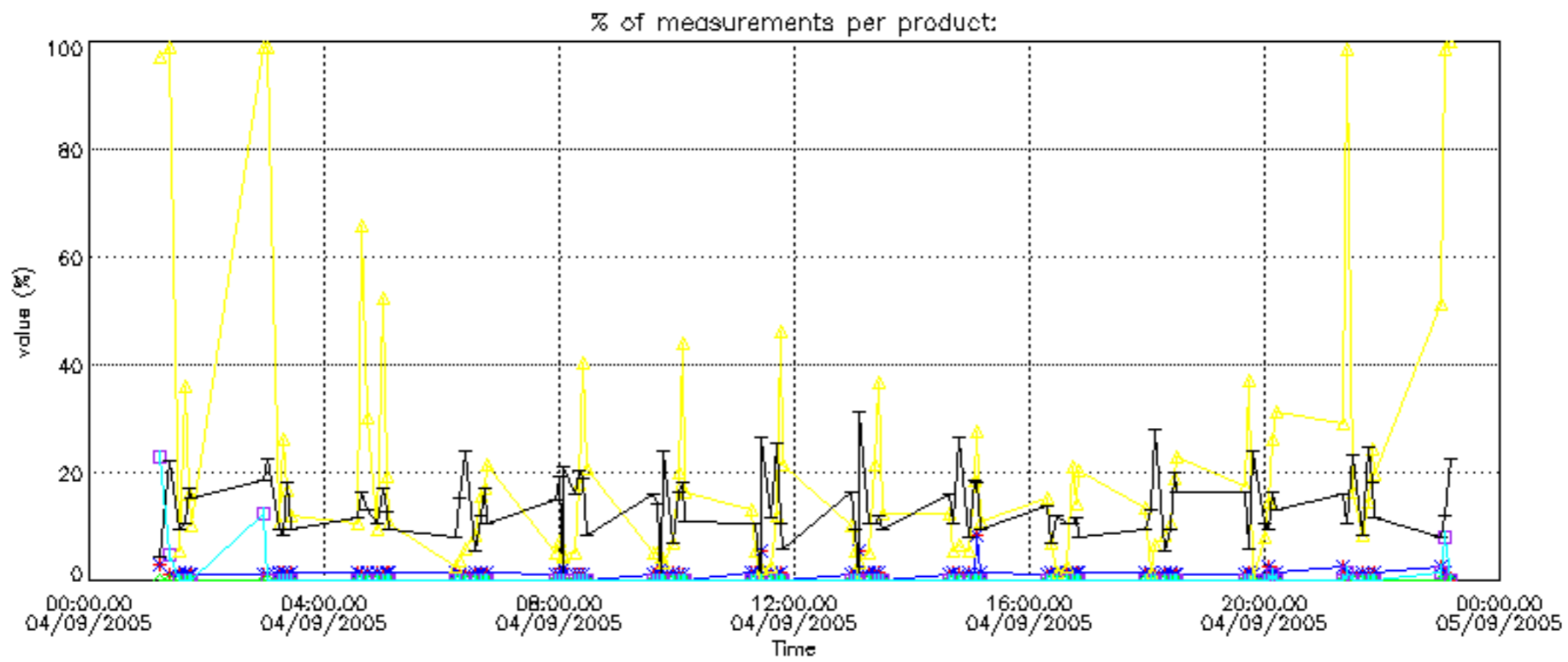


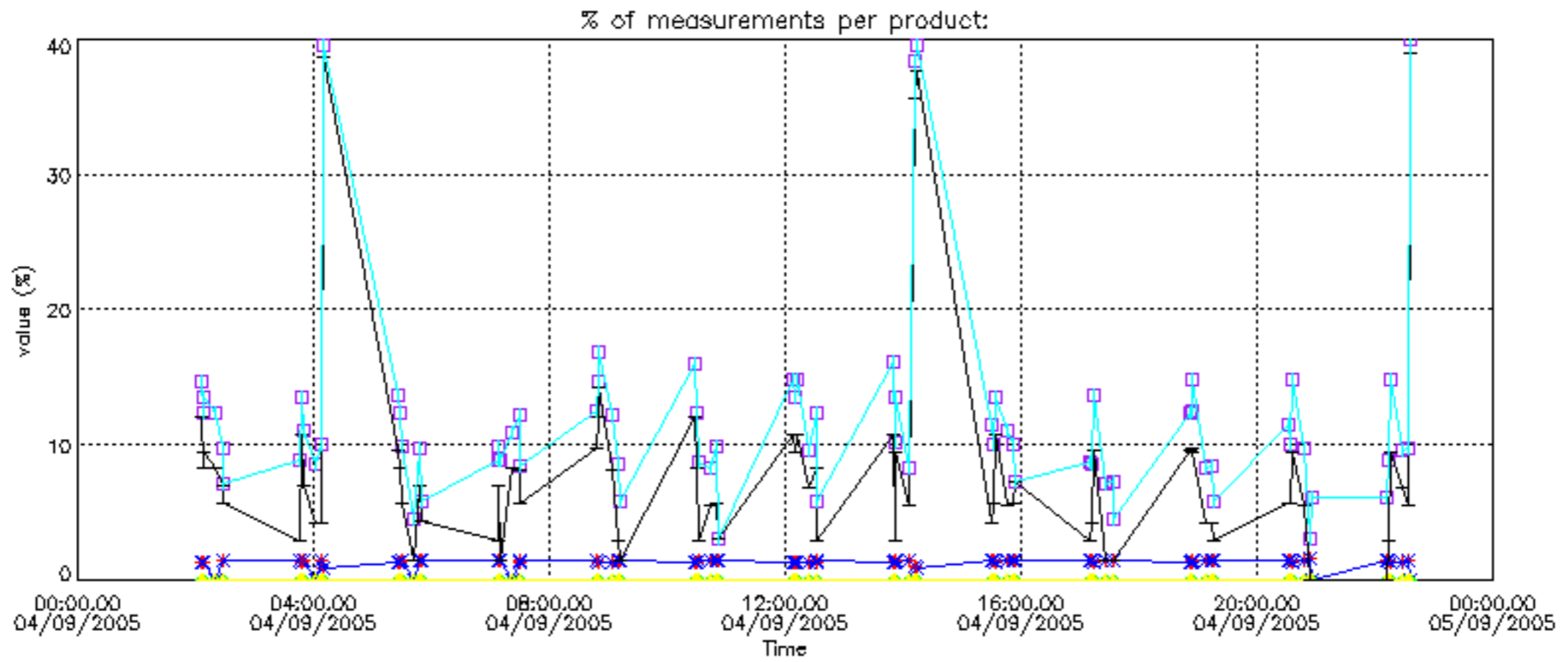
Percentage of flagged data per NO2 profile



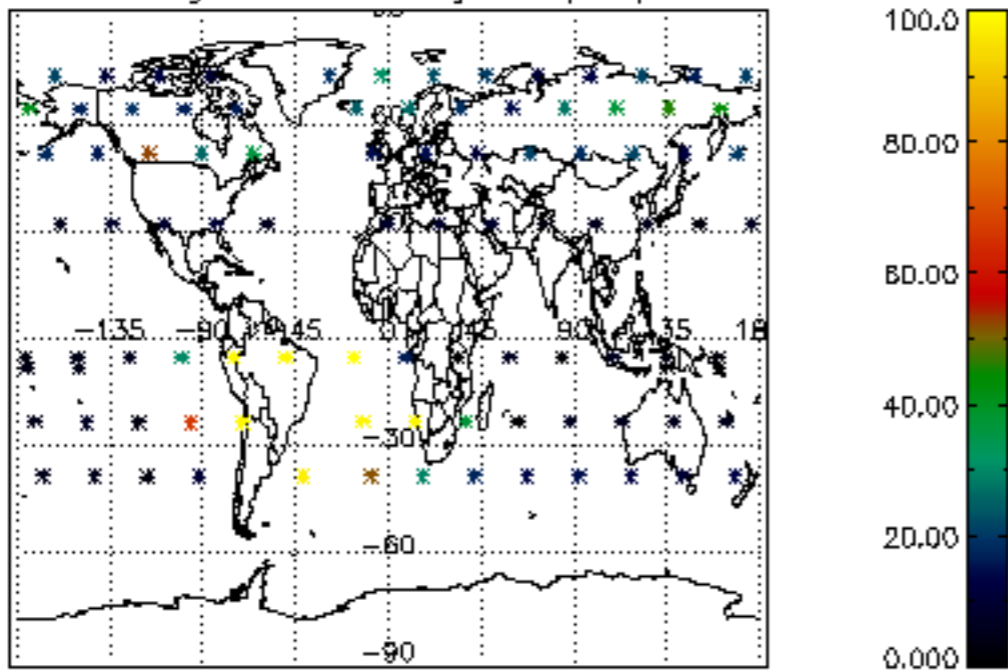
Percentage of flagged data per NO3 profile



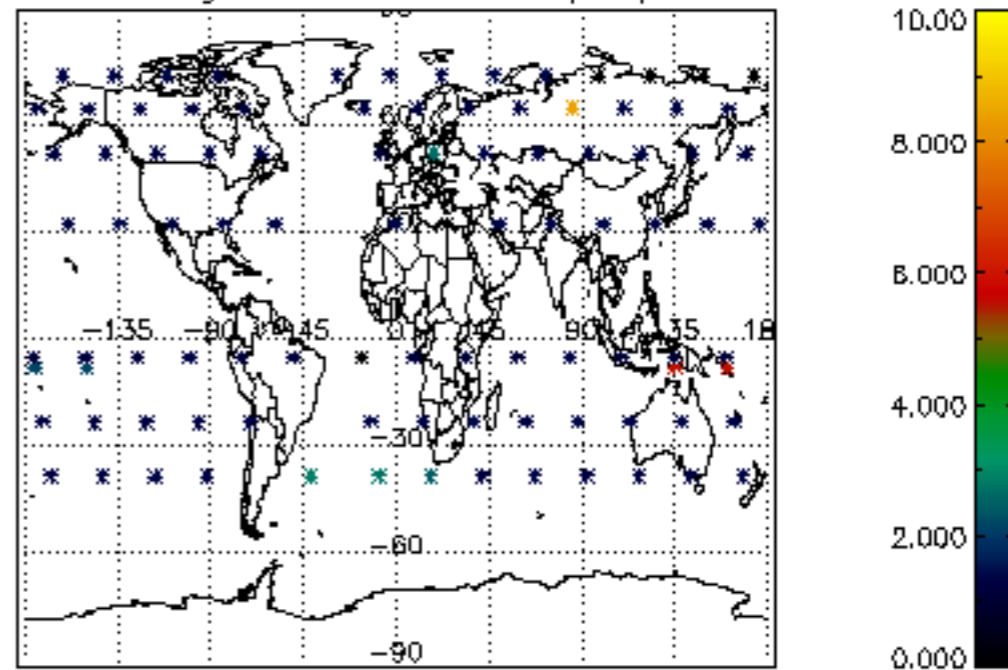




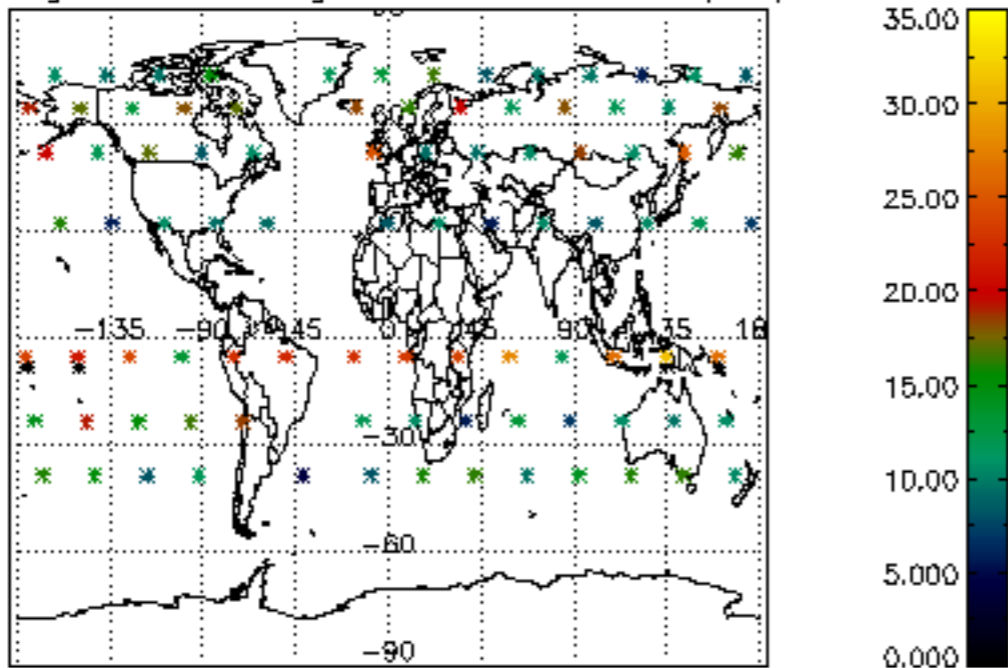
Percentage of cosmic ray hits per profile



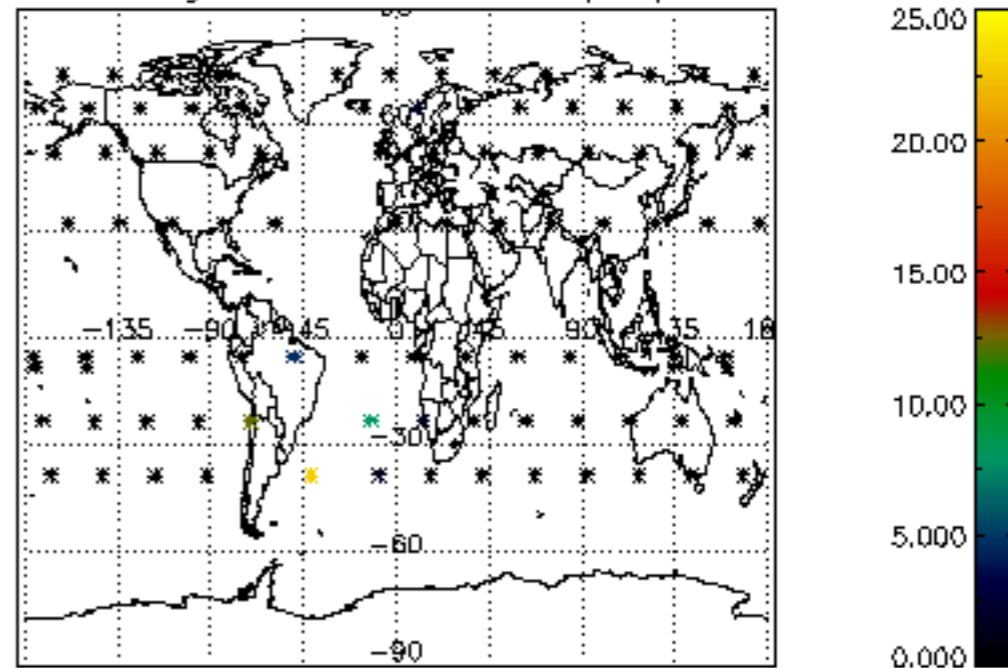
Percentage of datation errors per profile



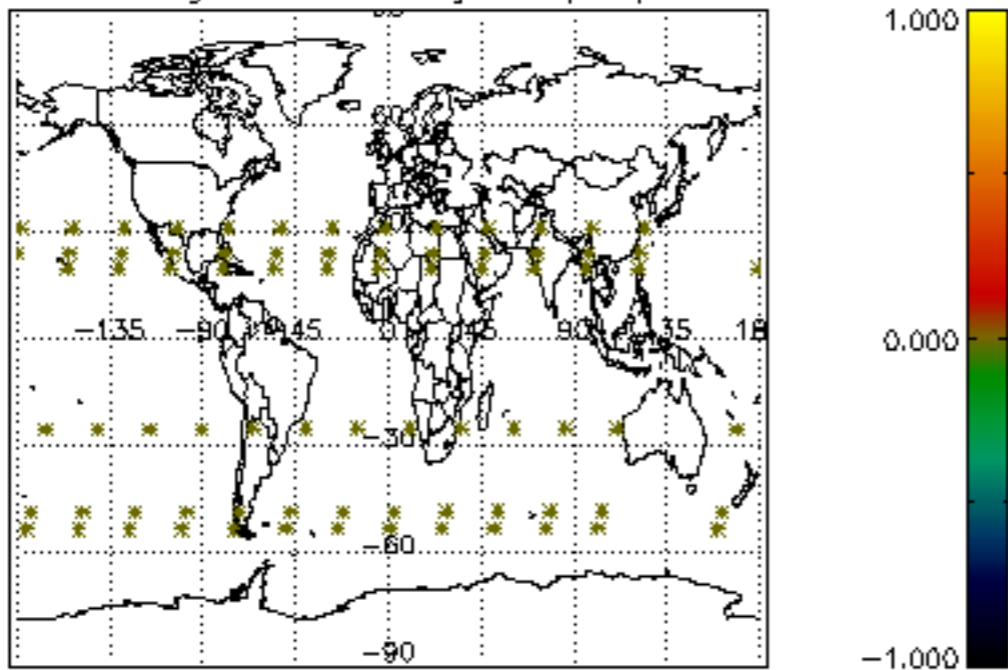
Percentage of star falling outside central band per profile



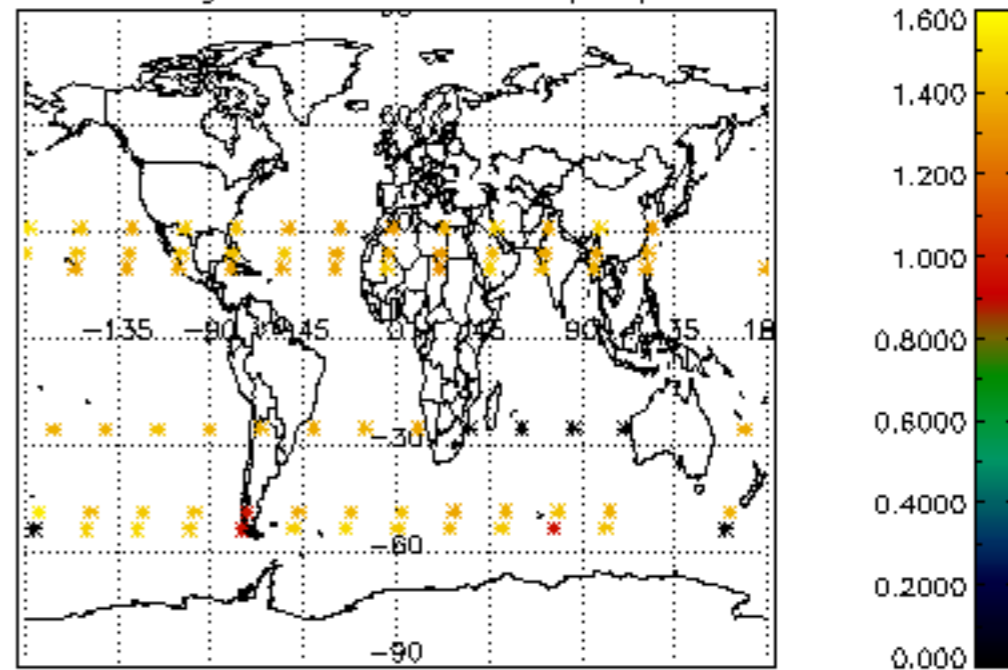
Percentage of saturation errors per profile



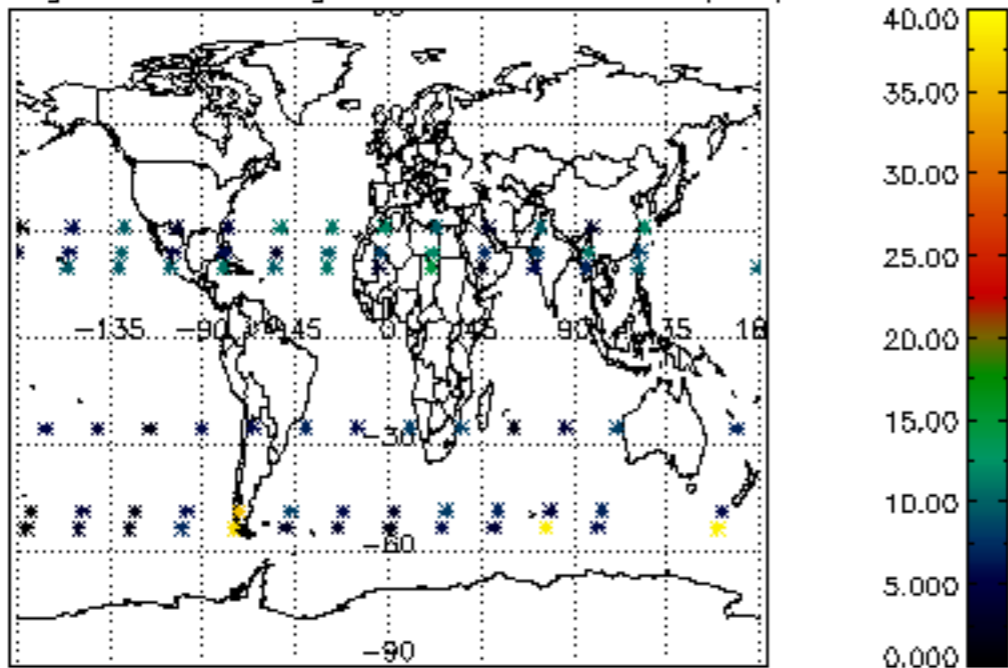
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

