

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	24APR2013 11:26:03
Data source version	GOMOS/6.01
Start time of products	17-03-2011 (17MAR2011 00:00:00)
Stop time of products	18-03-2011 (18MAR2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	325
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

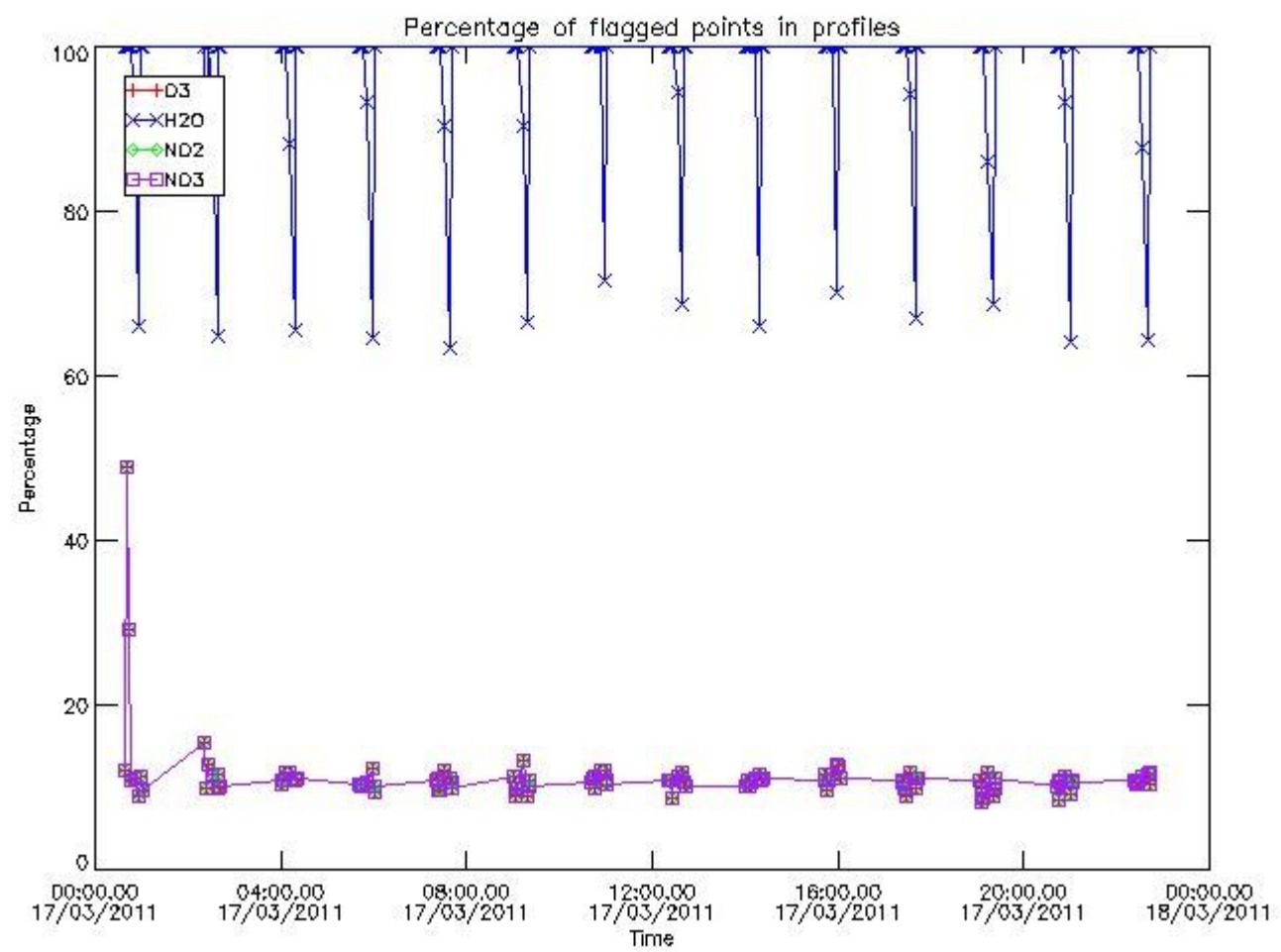
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110317_000417_000000383100_00289_47286_8530.N1	17-MAR-2011 00:04:17	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	47286	No
2	GOM_NL__2PRFIN20110317_000815_000000493100_00289_47286_8531.N1	17-MAR-2011 00:08:15	Bright	48.500	119	14Eta Dra	2.7270	4700.0	97	47286	No
3	GOM_NL__2PRFIN20110317_001735_000000383100_00289_47286_8532.N1	17-MAR-2011 00:17:35	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	47286	No
4	GOM_NL__2PRFIN20110317_001909_000000383100_00289_47286_8533.N1	17-MAR-2011 00:19:09	Bright	38.000	66	37Gam Cyg	2.2080	5900.0	76	47286	No
5	GOM_NL__2PRFIN20110317_002053_000000503100_00289_47286_8534.N1	17-MAR-2011 00:20:53	Bright	49.500	92	53Eps Cyg	2.5000	4500.0	99	47286	No
6	GOM_NL__2PRFIN20110317_002916_000000533100_00289_47286_8535.N1	17-MAR-2011 00:29:16	Twilight	52.500	11	53Alp Aql	0.76500	8000.0	105	47286	No
7	GOM_NL__2PRFIN20110317_003931_000000473100_00289_47286_8536.N1	17-MAR-2011 00:39:31	Dark	46.500	155	41Pi Sgr	2.9000	6600.0	93	47286	No
8	GOM_NL__2PRFIN20110317_004134_000000493100_00289_47286_8537.N1	17-MAR-2011 00:41:34	Dark	48.500	57	34Sig Sgr	2.0660	26000.	97	47286	No
9	GOM_NL__2PRFIN20110317_004300_000000573100_00289_47286_8538.N1	17-MAR-2011 00:43:00	Dark	57.000	137	22Lam Sgr	2.8240	4400.0	114	47286	No
10	GOM_NL__2PRFIN20110317_004503_000000483100_00289_47286_8539.N1	17-MAR-2011 00:45:03	Dark	47.500	38	20Eps Sgr	1.8360	11000.	95	47286	No
11	GOM_NL__2PRFIN20110317_005057_000000463100_00290_47287_8540.N1	17-MAR-2011 00:50:57	Dark	46.000	141	Bet Ara	2.8400	4600.0	92	47287	No
12	GOM_NL__2PRFIN20110317_005720_000000573100_00290_47287_8541.N1	17-MAR-2011 00:57:20	Dark	56.500	4	Alp1Cen	-0.010000	5800.0	113	47287	No
13	GOM_NL__2PRFIN20110317_005920_000000493100_00290_47287_8542.N1	17-MAR-2011 00:59:20	Dark	49.000	78	Alp Lup	2.3040	28000.	98	47287	No
14	GOM_NL__2PRFIN20110317_010048_000000543100_00290_47287_8543.N1	17-MAR-2011 01:00:48	Dark	53.500	81	Eta Cen	2.3560	28000.	107	47287	No
15	GOM_NL__2PRFIN20110317_010353_000000583100_00290_47287_8544.N1	17-MAR-2011 01:03:53	Straylight	58.000	54	5The Cen	2.0550	4500.0	116	47287	No
16	GOM_NL__2PRFIN20110317_010539_000000493100_00290_47287_8545.N1	17-MAR-2011 01:05:39	Straylight	49.000	123	lot Cen	2.7500	10200.	98	47287	No
17	GOM_NL__2PRFIN20110317_011121_000000563100_00290_47287_8546.N1	17-MAR-2011 01:11:21	Straylight	56.000	106	9Bet Crv	2.6480	5600.0	112	47287	No
18	GOM_NL__2PRFIN20110317_011338_000000513100_00290_47287_8547.N1	17-MAR-2011 01:13:38	Twilight	50.500	100	4Gam Crv	2.5800	13100.	101	47287	No
19	GOM_NL__2PRFIN20110317_012436_000000473100_00290_47287_8548.N1	17-MAR-2011 01:24:36	Bright	47.000	62	94Bet Leo	2.1360	9700.0	94	47287	No
20	GOM_NL__2PRFIN20110317_013250_000000403100_00290_47287_8549.N1	17-MAR-2011 01:32:50	Bright	40.000	174	52Psi UMa	3.0040	4400.0	80	47287	No
21	GOM_NL__2PRFIN20110317_013601_000000393100_00290_47287_8550.N1	17-MAR-2011 01:36:01	Bright	38.500	82	48Bet UMa	2.3650	10600.	77	47287	No
22	GOM_NL__2PRFIN20110317_013731_000000383100_00290_47287_8551.N1	17-MAR-2011 01:37:31	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	47287	No
23	GOM_NL__2PRFIN20110317_013857_000000453100_00290_47287_8552.N1	17-MAR-2011 01:38:57	Bright	45.000	32	77Eps UMa	1.7630	11000.	90	47287	No
24	GOM_NL__2PRFIN20110317_014431_000000433100_00290_47287_8553.N1	17-MAR-2011 01:44:31	Bright	42.500	60	7Bet UMi	2.0810	3950.0	85	47287	No
25	GOM_NL__2PRFIN20110317_014829_000000503100_00290_47287_8554.N1	17-MAR-2011 01:48:29	Bright	50.000	119	14Eta Dra	2.7270	4700.0	100	47287	No
26	GOM_NL__2PRFIN20110317_015750_000000373100_00290_47287_8555.N1	17-MAR-2011 01:57:50	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	47287	No
27	GOM_NL__2PRFIN20110317_015923_000000373100_00290_47287_8556.N1	17-MAR-2011 01:59:23	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	47287	No
28	GOM_NL__2PRFIN20110317_020107_000000373100_00290_47287_8557.N1	17-MAR-2011 02:01:07	Bright	36.500	92	53Eps Cyg	2.5000	4500.0	73	47287	No
29	GOM_NL__2PRFIN20110317_020931_000000513100_00290_47287_8558.N1	17-MAR-2011 02:09:31	Twilight	51.000	11	53Alp Aql	0.76500	8000.0	102	47287	No
30	GOM_NL__2PRFIN20110317_022149_000000463100_00290_47287_8559.N1	17-MAR-2011 02:21:49	Dark	46.000	57	34Sig Sgr	2.0660	26000.	92	47287	No
31	GOM_NL__2PRFIN20110317_022316_000000523100_00290_47287_8560.N1	17-MAR-2011 02:23:16	Dark	51.500	137	22Lam Sgr	2.8240	4400.0	103	47287	No
32	GOM_NL__2PRFIN20110317_022518_000000483100_00290_47287_8561.N1	17-MAR-2011 02:25:18	Dark	47.500	38	20Eps Sgr	1.8360	11000.	95	47287	No
33	GOM_NL__2PRFIN20110317_023112_000000453100_00291_47288_8564.N1	17-MAR-2011 02:31:12	Dark	44.500	141	Bet Ara	2.8400	4600.0	89	47288	No
34	GOM_NL__2PRFIN20110317_023735_000000453100_00291_47288_8565.N1	17-MAR-2011 02:37:35	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	47288	No
35	GOM_NL__2PRFIN20110317_023935_000000523100_00291_47288_8566.N1	17-MAR-2011 02:39:35	Dark	52.000	78	Alp Lup	2.3040	28000.	104	47288	No
36	GOM_NL__2PRFIN20110317_024103_000000503100_00291_47288_8567.N1	17-MAR-2011 02:41:03	Dark	50.000	81	Eta Cen	2.3560	28000.	100	47288	No
37	GOM_NL__2PRFIN20110317_024408_000000643100_00291_47288_8568.N1	17-MAR-2011 02:44:08	Straylight	63.500	54	5The Cen	2.0550	4500.0	127	47288	No
38	GOM_NL__2PRFIN20110317_024554_000000503100_00291_47288_8569.N1	17-MAR-2011 02:45:54	Straylight	50.000	123	lot Cen	2.7500	10200.	100	47288	No
39	GOM_NL__2PRFIN20110317_025135_000000553100_00291_47288_8570.N1	17-MAR-2011 02:51:35	Straylight	55.000	106	9Bet Crv	2.6480	5600.0	110	47288	No
40	GOM_NL__2PRFIN20110317_025352_000000493100_00291_47288_8571.N1	17-MAR-2011 02:53:52	Twilight	49.000	100	4Gam Crv	2.5800	13100.	98	47288	No
41	GOM_NL__2PRFIN20110317_030450_000000473100_00291_47288_8572.N1	17-MAR-2011 03:04:50	Bright	46.500	62	94Bet Leo	2.1360	9700.0	93	47288	No
42	GOM_NL__2PRFIN20110317_031303_000000383100_00291_47288_8573.N1	17-MAR-2011 03:13:03	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	47288	No

279	GOM_NL__2PRFIN20110317_202159_000000403100_00301_47298_8915.N1	17-MAR-2011 20:21:59	Bright	39.500	66	37Gam Cyg	2.2080	5900.0	79	47298	No
280	GOM_NL__2PRFIN20110317_202343_000000373100_00301_47298_8916.N1	17-MAR-2011 20:23:43	Bright	37.000	92	53Eps Cyg	2.5000	4500.0	74	47298	No
281	GOM_NL__2PRFIN20110317_203210_000000533100_00301_47298_8917.N1	17-MAR-2011 20:32:10	Twilight	53.000	11	53Alp Aql	0.76500	8000.0	106	47298	No
282	GOM_NL__2PRFIN20110317_204230_000000513100_00301_47298_8918.N1	17-MAR-2011 20:42:30	Dark	50.500	155	41Pi Sgr	2.9000	6600.0	101	47298	No
283	GOM_NL__2PRFIN20110317_204433_000000473100_00301_47298_8919.N1	17-MAR-2011 20:44:33	Dark	47.000	57	34Sig Sgr	2.0660	26000.	94	47298	No
284	GOM_NL__2PRFIN20110317_204602_000000613100_00301_47298_8920.N1	17-MAR-2011 20:46:02	Dark	61.000	137	22Lam Sgr	2.8240	4400.0	122	47298	No
285	GOM_NL__2PRFIN20110317_204803_000000493100_00301_47298_8921.N1	17-MAR-2011 20:48:03	Dark	48.500	38	20Eps Sgr	1.8360	11000.	97	47298	No
286	GOM_NL__2PRFIN20110317_205354_000000453100_00302_47299_8957.N1	17-MAR-2011 20:53:54	Dark	45.000	141	Bet Ara	2.8400	4600.0	90	47299	No
287	GOM_NL__2PRFIN20110317_210015_000000563100_00302_47299_8958.N1	17-MAR-2011 21:00:15	Dark	56.000	4	Alp1Cen	-0.010000	5800.0	112	47299	No
288	GOM_NL__2PRFIN20110317_210218_000000483100_00302_47299_8959.N1	17-MAR-2011 21:02:18	Dark	47.500	78	Alp Lup	2.3040	28000.	95	47299	No
289	GOM_NL__2PRFIN20110317_210346_000000533100_00302_47299_8960.N1	17-MAR-2011 21:03:46	Dark	53.000	81	Eta Cen	2.3560	28000.	106	47299	No
290	GOM_NL__2PRFIN20110317_210651_000000603100_00302_47299_8961.N1	17-MAR-2011 21:06:51	Straylight	60.000	54	5The Cen	2.0550	4500.0	120	47299	No
291	GOM_NL__2PRFIN20110317_210834_000000493100_00302_47299_8962.N1	17-MAR-2011 21:08:34	Straylight	48.500	123	lot Cen	2.7500	10200.	97	47299	No
292	GOM_NL__2PRFIN20110317_211412_000000533100_00302_47299_8963.N1	17-MAR-2011 21:14:12	Straylight	53.000	106	9Bet Crv	2.6480	5600.0	106	47299	No
293	GOM_NL__2PRFIN20110317_211628_000000503100_00302_47299_8964.N1	17-MAR-2011 21:16:28	Twilight	50.000	100	4Gam Crv	2.5800	13100.	100	47299	No
294	GOM_NL__2PRFIN20110317_212720_000000463100_00302_47299_8965.N1	17-MAR-2011 21:27:20	Bright	46.000	62	94Bet Leo	2.1360	9700.0	92	47299	No
295	GOM_NL__2PRFIN20110317_213534_000000383100_00302_47299_8966.N1	17-MAR-2011 21:35:34	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	47299	No
296	GOM_NL__2PRFIN20110317_213847_000000383100_00302_47299_8967.N1	17-MAR-2011 21:38:47	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	47299	No
297	GOM_NL__2PRFIN20110317_214016_000000413100_00302_47299_8968.N1	17-MAR-2011 21:40:16	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	47299	No
298	GOM_NL__2PRFIN20110317_214137_000000443100_00302_47299_8969.N1	17-MAR-2011 21:41:37	Bright	43.500	32	77Eps UMa	1.7630	11000.	87	47299	No
299	GOM_NL__2PRFIN20110317_214715_000000423100_00302_47299_8970.N1	17-MAR-2011 21:47:15	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	47299	No
300	GOM_NL__2PRFIN20110317_215109_000000493100_00302_47299_8971.N1	17-MAR-2011 21:51:09	Bright	49.000	119	14Eta Dra	2.7270	4700.0	98	47299	No
301	GOM_NL__2PRFIN20110317_220038_000000363100_00302_47299_8972.N1	17-MAR-2011 22:00:38	Bright	35.500	19	50Alp Cyg	1.2460	10500.	71	47299	No
302	GOM_NL__2PRFIN20110317_220213_000000383100_00302_47299_8973.N1	17-MAR-2011 22:02:13	Bright	38.000	66	37Gam Cyg	2.2080	5900.0	76	47299	No
303	GOM_NL__2PRFIN20110317_220357_000000383100_00302_47299_8974.N1	17-MAR-2011 22:03:57	Bright	38.000	92	53Eps Cyg	2.5000	4500.0	76	47299	No
304	GOM_NL__2PRFIN20110317_221224_000000553100_00302_47299_8975.N1	17-MAR-2011 22:12:24	Twilight	54.500	11	53Alp Aql	0.76500	8000.0	109	47299	No
305	GOM_NL__2PRFIN20110317_222244_000000473100_00302_47299_8976.N1	17-MAR-2011 22:22:44	Dark	46.500	155	41Pi Sgr	2.9000	6600.0	93	47299	No
306	GOM_NL__2PRFIN20110317_222448_000000483100_00302_47299_8977.N1	17-MAR-2011 22:24:48	Dark	48.000	57	34Sig Sgr	2.0660	26000.	96	47299	No
307	GOM_NL__2PRFIN20110317_222617_000000543100_00302_47299_8978.N1	17-MAR-2011 22:26:17	Dark	54.000	137	22Lam Sgr	2.8240	4400.0	108	47299	No
308	GOM_NL__2PRFIN20110317_222818_000000483100_00302_47299_8979.N1	17-MAR-2011 22:28:18	Dark	48.000	38	20Eps Sgr	1.8360	11000.	96	47299	No
309	GOM_NL__2PRFIN20110317_223408_000000453100_00303_47300_8948.N1	17-MAR-2011 22:34:08	Dark	45.000	141	Bet Ara	2.8400	4600.0	90	47300	No
310	GOM_NL__2PRFIN20110317_224029_000000443100_00303_47300_8949.N1	17-MAR-2011 22:40:29	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	47300	No
311	GOM_NL__2PRFIN20110317_224233_000000473100_00303_47300_8950.N1	17-MAR-2011 22:42:33	Dark	47.000	78	Alp Lup	2.3040	28000.	94	47300	No
312	GOM_NL__2PRFIN20110317_224401_000000503100_00303_47300_8951.N1	17-MAR-2011 22:44:01	Dark	49.500	81	Eta Cen	2.3560	28000.	99	47300	No
313	GOM_NL__2PRFIN20110317_224705_000000603100_00303_47300_8952.N1	17-MAR-2011 22:47:05	Straylight	60.000	54	5The Cen	2.0550	4500.0	120	47300	No
314	GOM_NL__2PRFIN20110317_224849_000000513100_00303_47300_8953.N1	17-MAR-2011 22:48:49	Straylight	51.000	123	lot Cen	2.7500	10200.	102	47300	No
315	GOM_NL__2PRFIN20110317_225426_000000523100_00303_47300_8954.N1	17-MAR-2011 22:54:26	Straylight	51.500	106	9Bet Crv	2.6480	5600.0	103	47300	No
316	GOM_NL__2PRFIN20110317_225641_000000503100_00303_47300_8955.N1	17-MAR-2011 22:56:41	Twilight	49.500	100	4Gam Crv	2.5800	13100.	99	47300	No
317	GOM_NL__2PRFIN20110317_230734_000000463100_00303_47300_8956.N1	17-MAR-2011 23:07:34	Bright	45.500	62	94Bet Leo	2.1360	9700.0	91	47300	No
318	GOM_NL__2PRFIN20110317_231548_000000403100_00303_47300_8957.N1	17-MAR-2011 23:15:48	Bright	39.500	174	52Psi UMa	3.0040	4400.0	79	47300	No
319	GOM_NL__2PRFIN20110317_231900_000000373100_00303_47300_8958.N1	17-MAR-2011 23:19:00	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	47300	No
320	GOM_NL__2PRFIN20110317_232728_000000383100_00303_47300_8959.N1	17-MAR-2011 23:27:28	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	47300	No
321	GOM_NL__2PRFIN20110317_233123_000000483100_00303_47300_8960.N1	17-MAR-2011 23:31:23	Bright	48.000	119	14Eta Dra	2.7270	4700.0	96	47300	No
322	GOM_NL__2PRFIN20110317_234052_000000383100_00303_47300_8961.N1	17-MAR-2011 23:40:52	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	47300	No
323	GOM_NL__2PRFIN20110317_234226_000000373100_00303_47300_8962.N1	17-MAR-2011 23:42:26	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	47300	No
324	GOM_NL__2PRFIN20110317_234411_000000363100_00303_47300_8963.N1	17-MAR-2011 23:44:11	Bright	35.500	92	53Eps Cyg	2.5000	4500.0	71	47300	No
325	GOM_NL__2PRFIN20110317_235239_000000523100_00303_47300_8964.N1	17-MAR-2011 23:52:39	Twilight	51.500	11	53Alp Aql	0.76500	8000.0	103	47300	No

3. Quality information per product

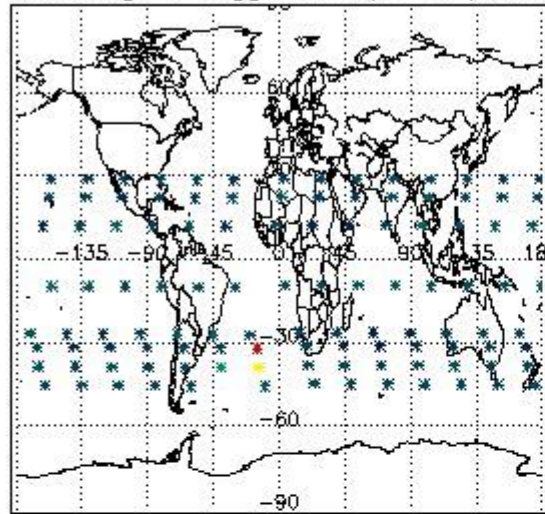
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

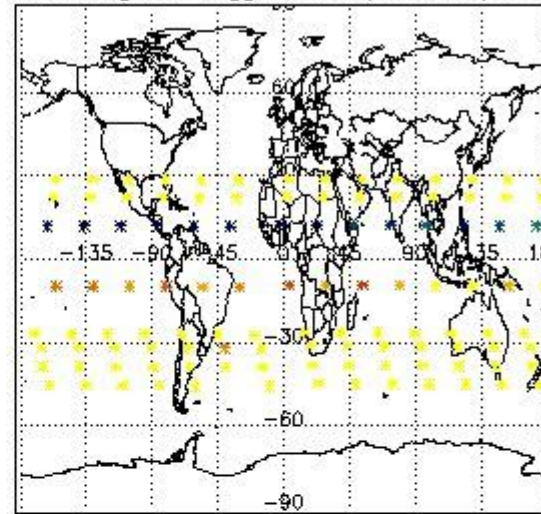


3.2 Plot quality information per product (world map)

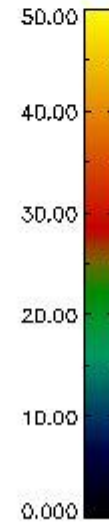
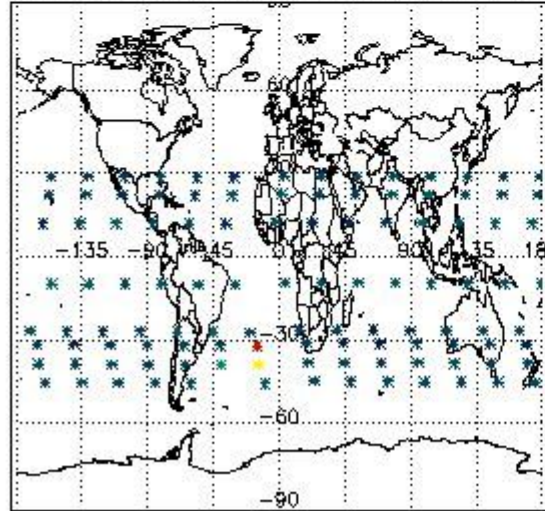
Percentage of flagged data per O3 profile



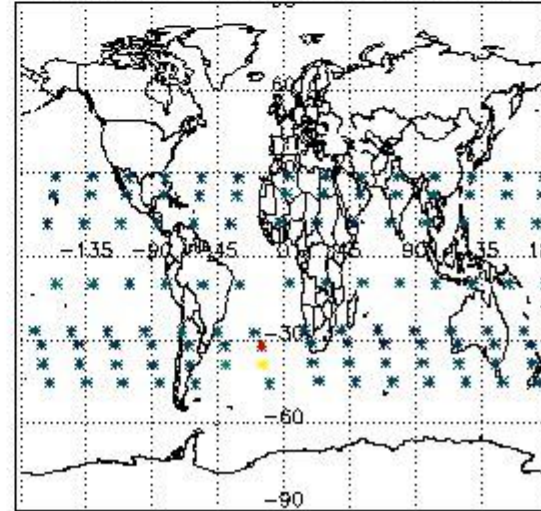
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

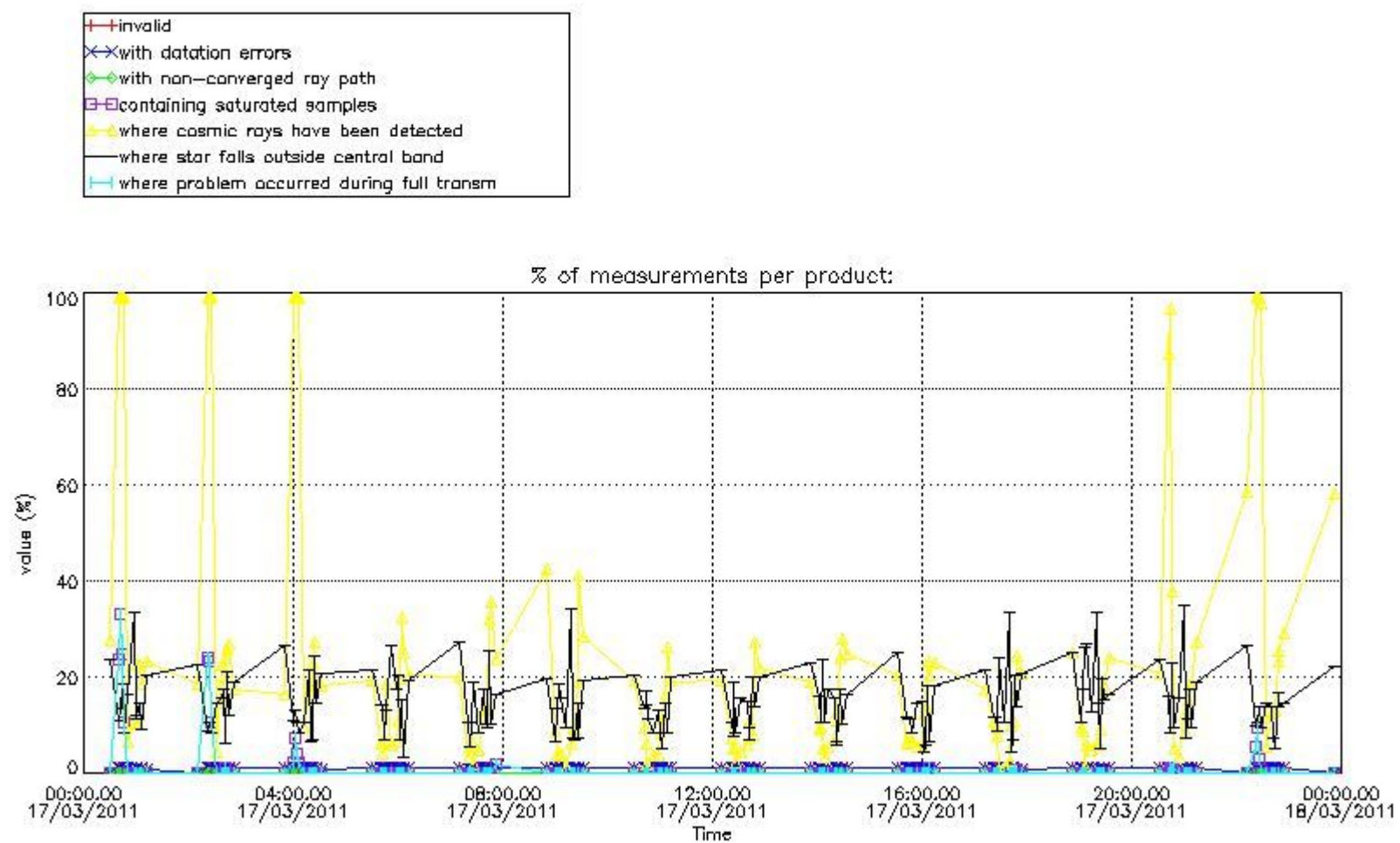


4. Level 1 quality information per product

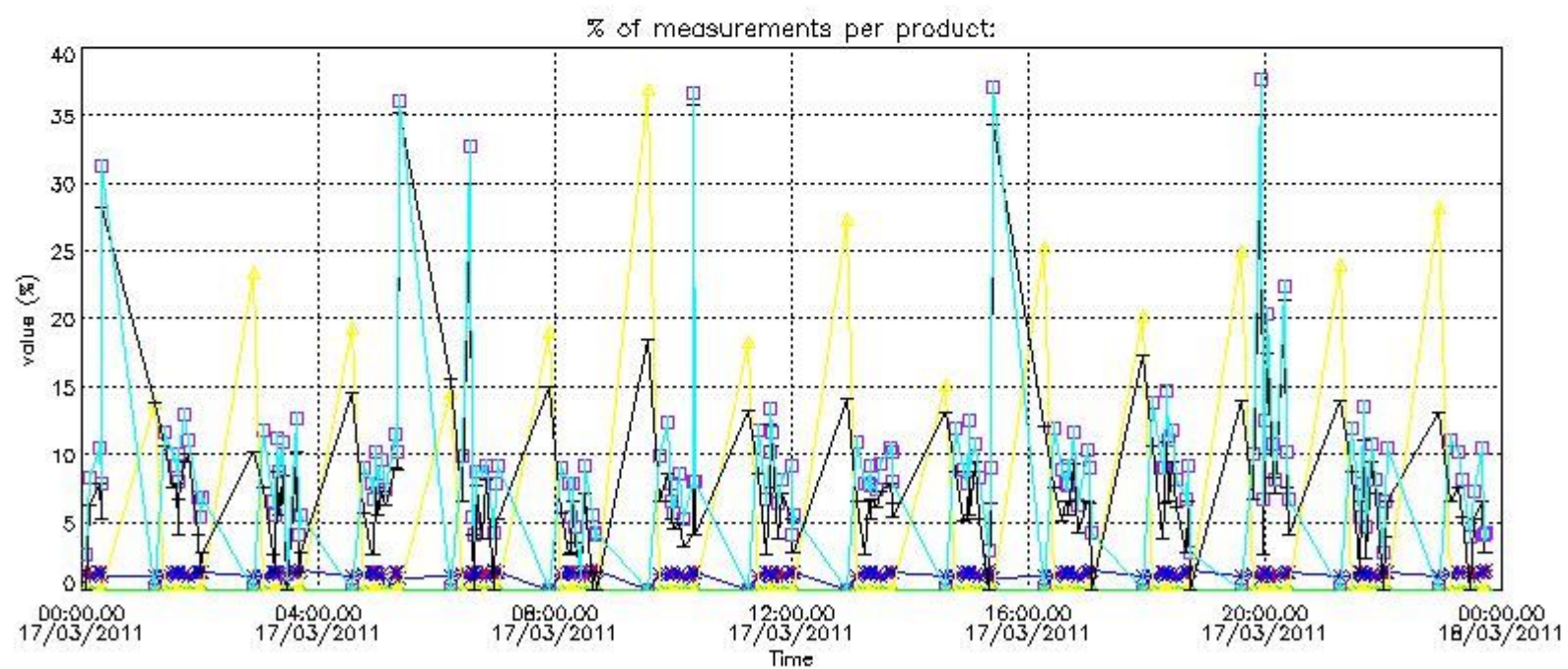
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

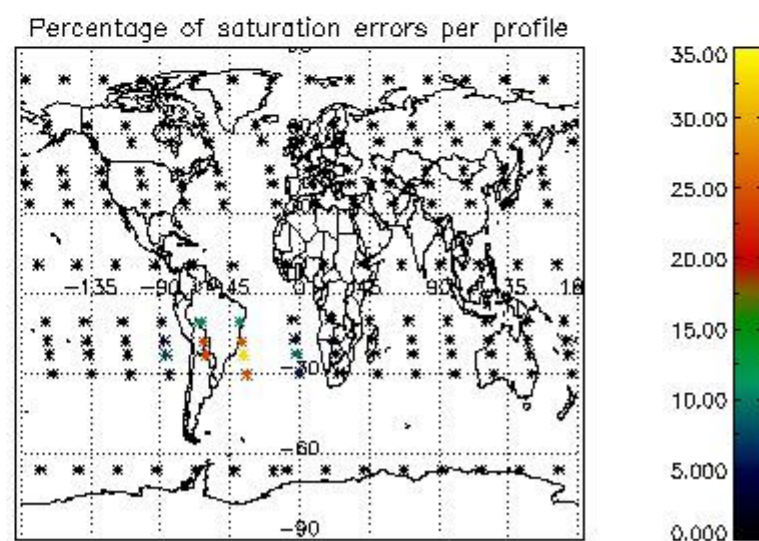
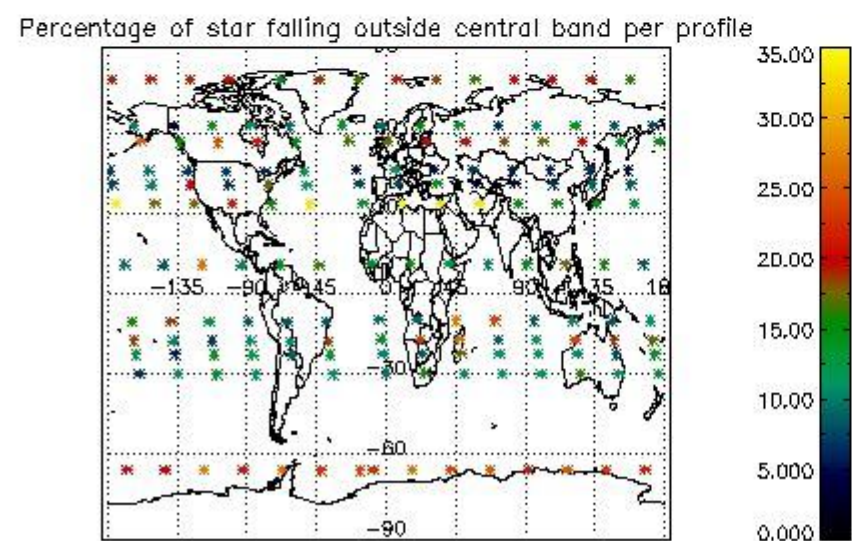
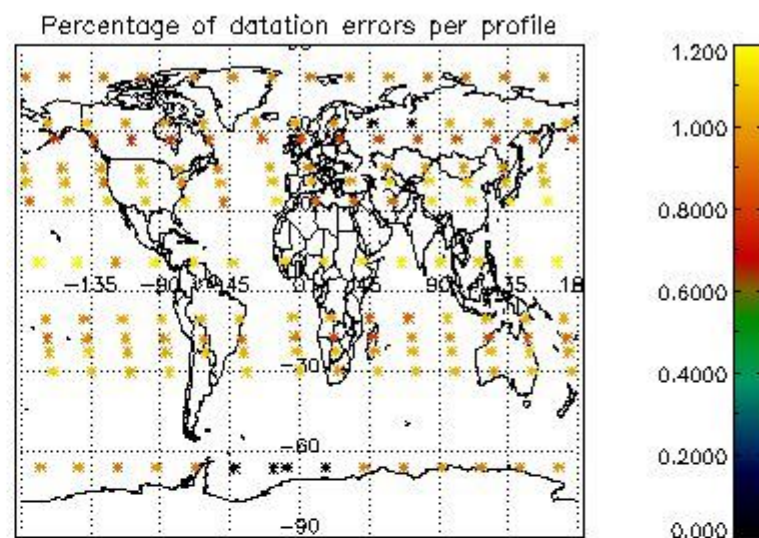
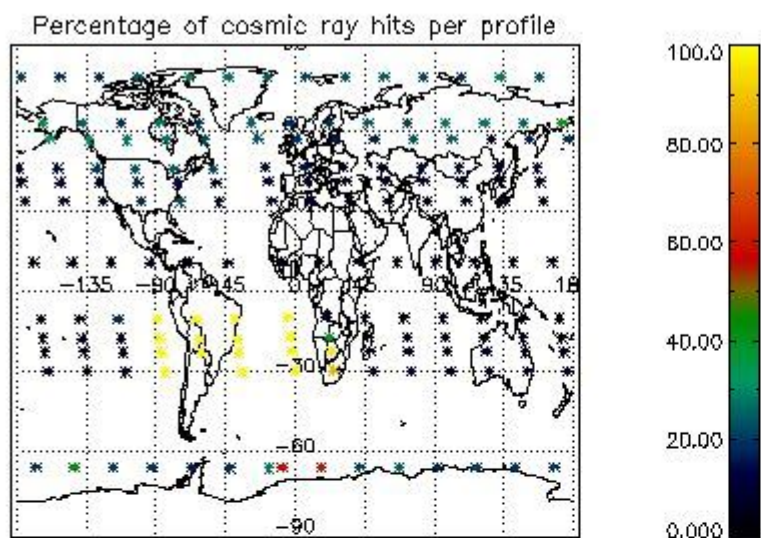


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

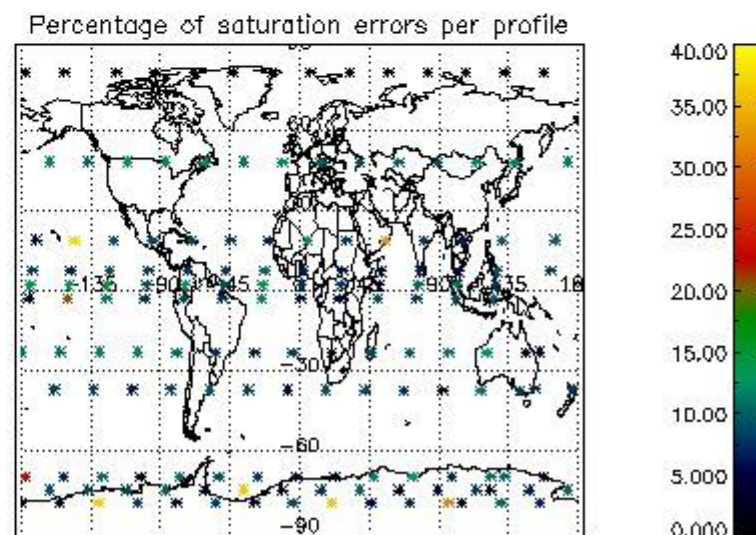
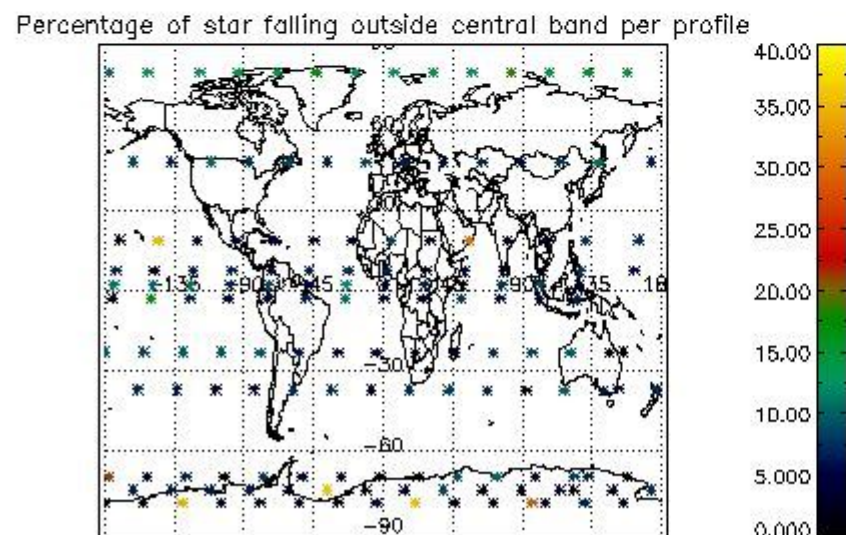
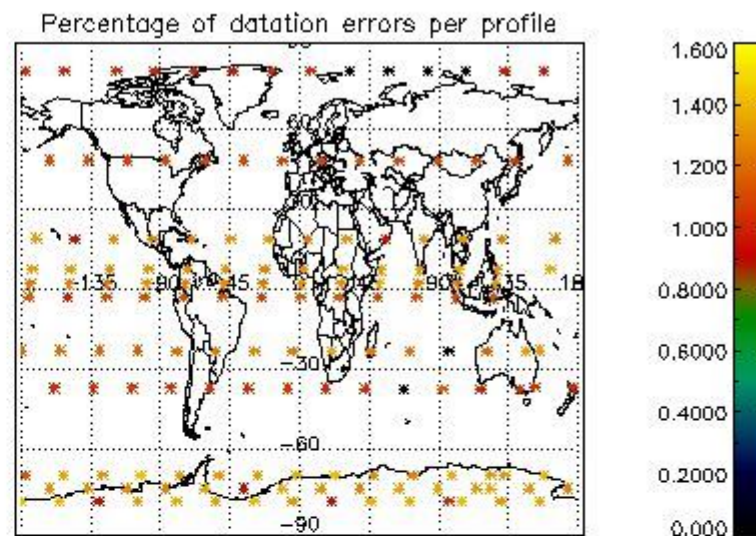
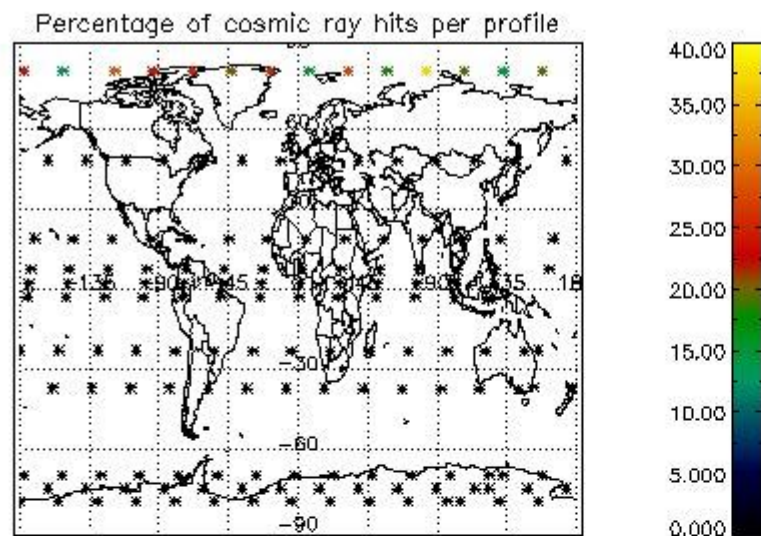


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

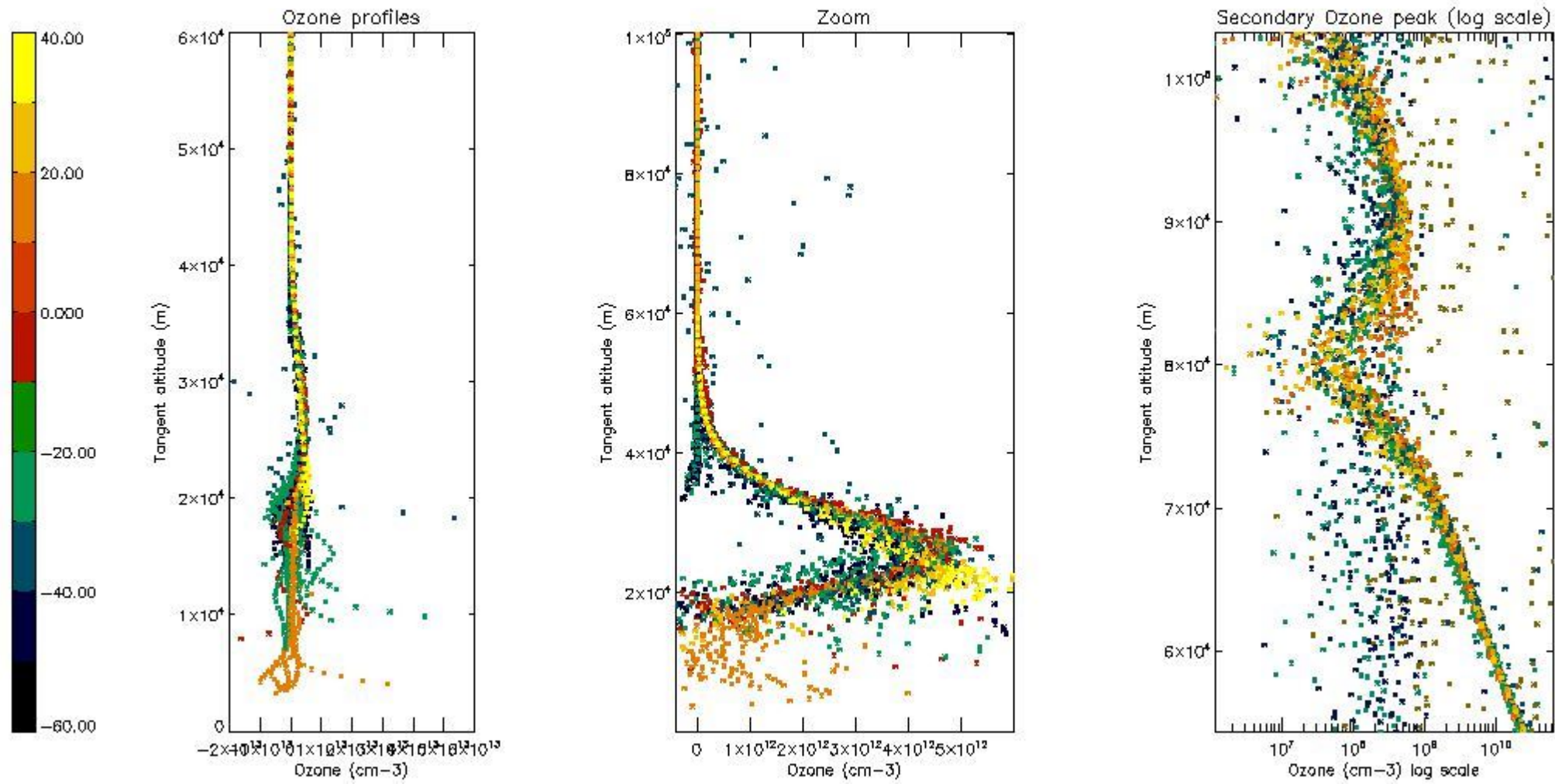
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	36
STD < 20	17

STD < 10	13
STD < 5	9

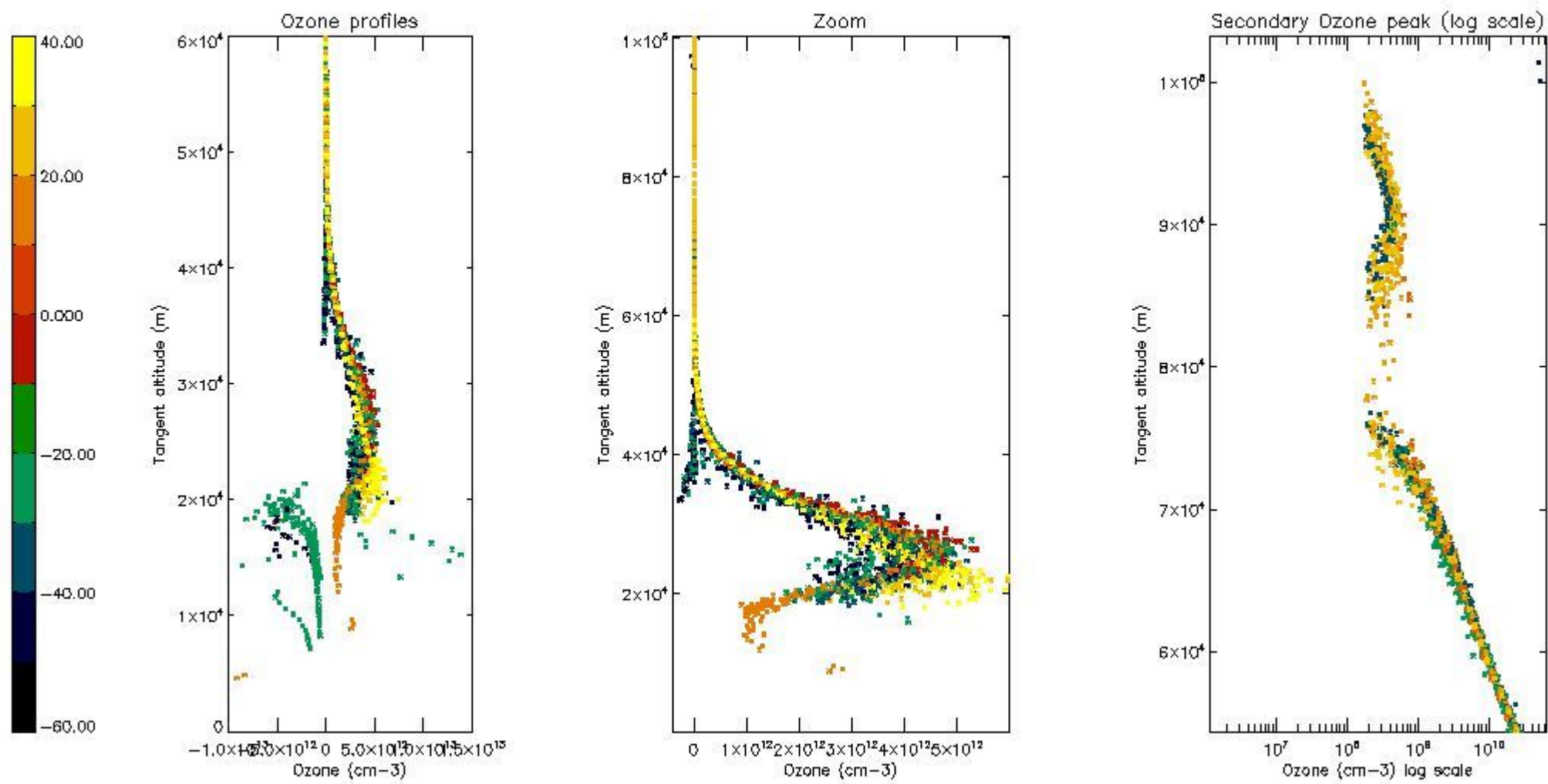
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



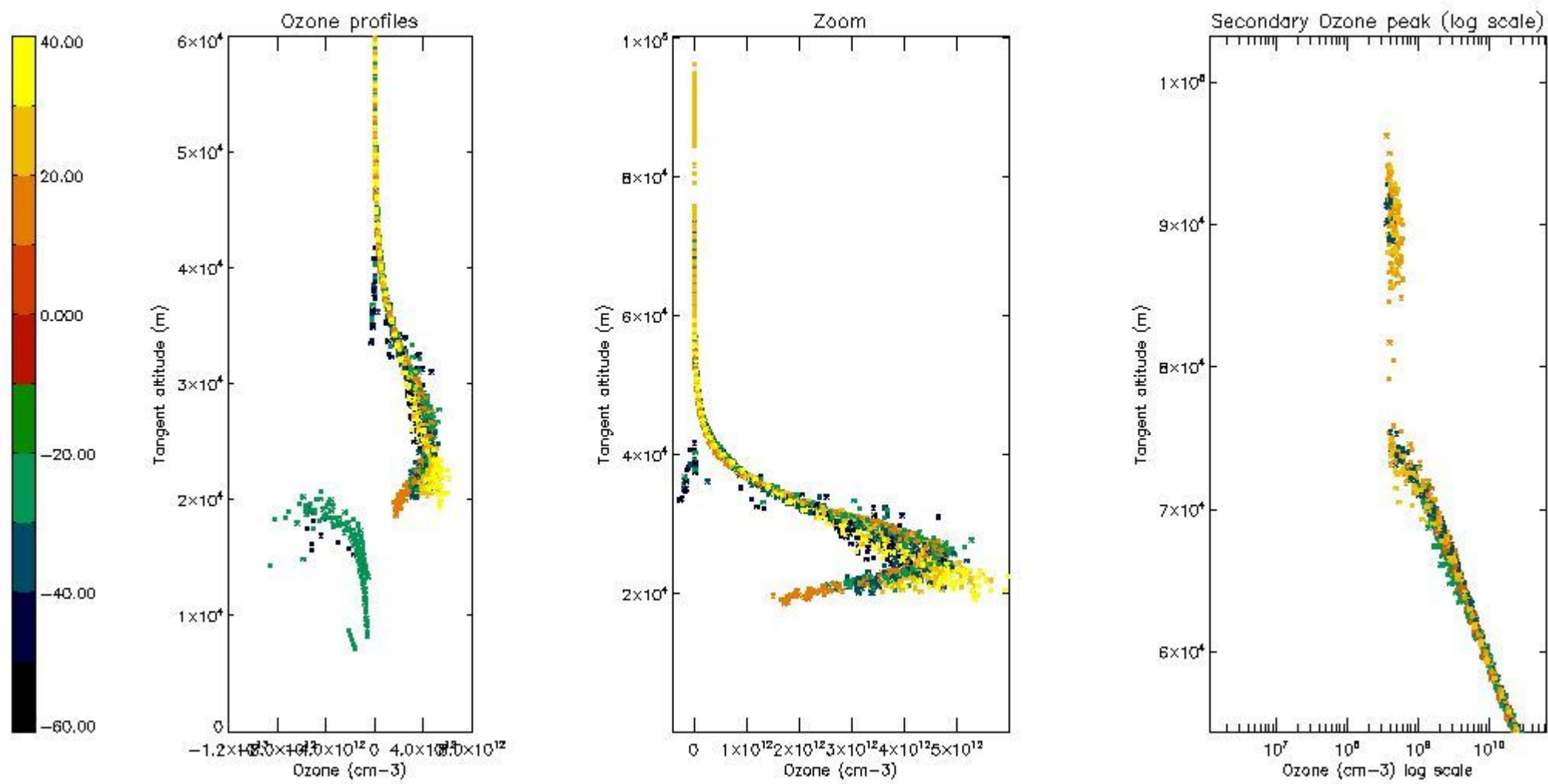
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



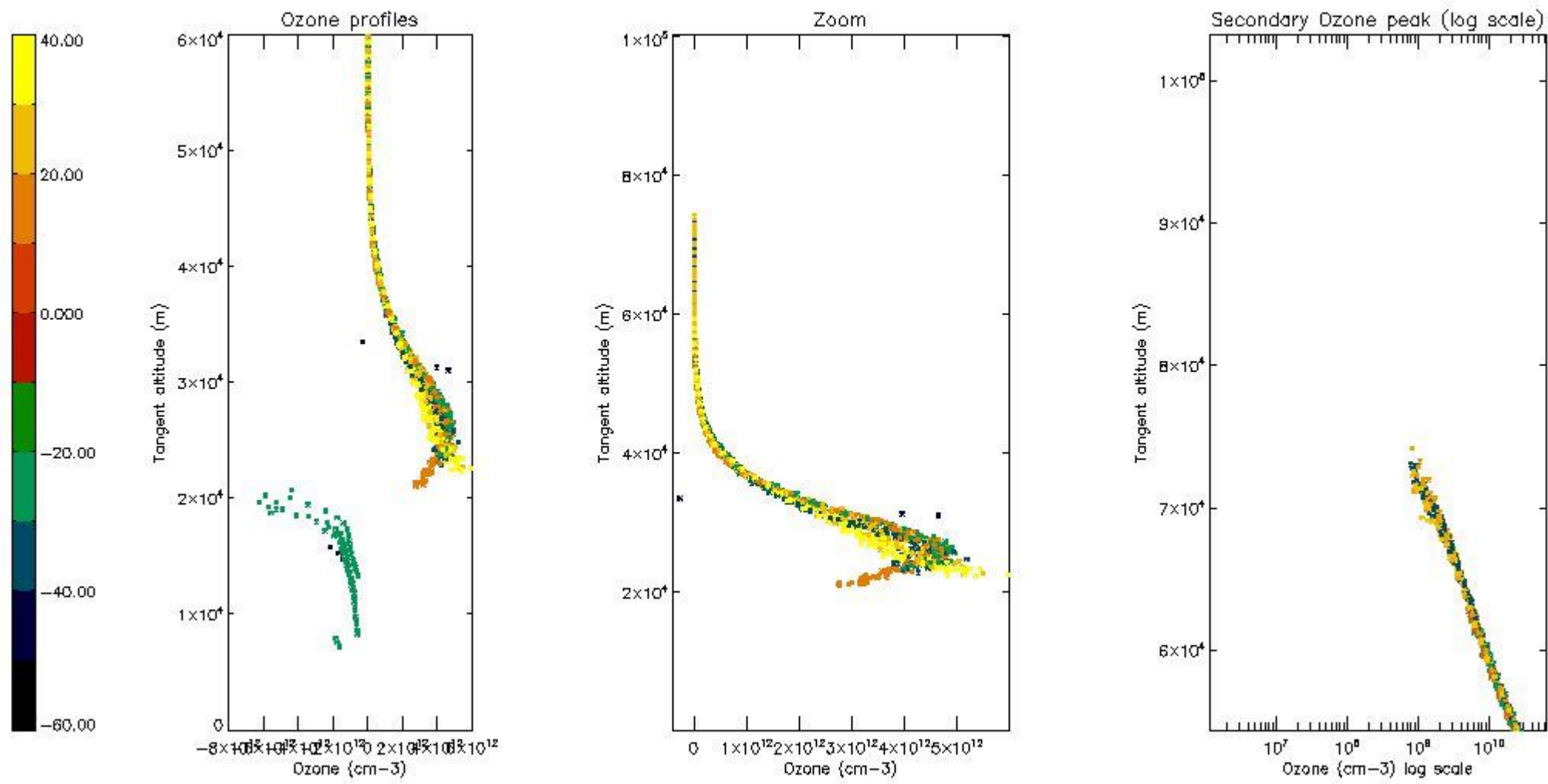
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



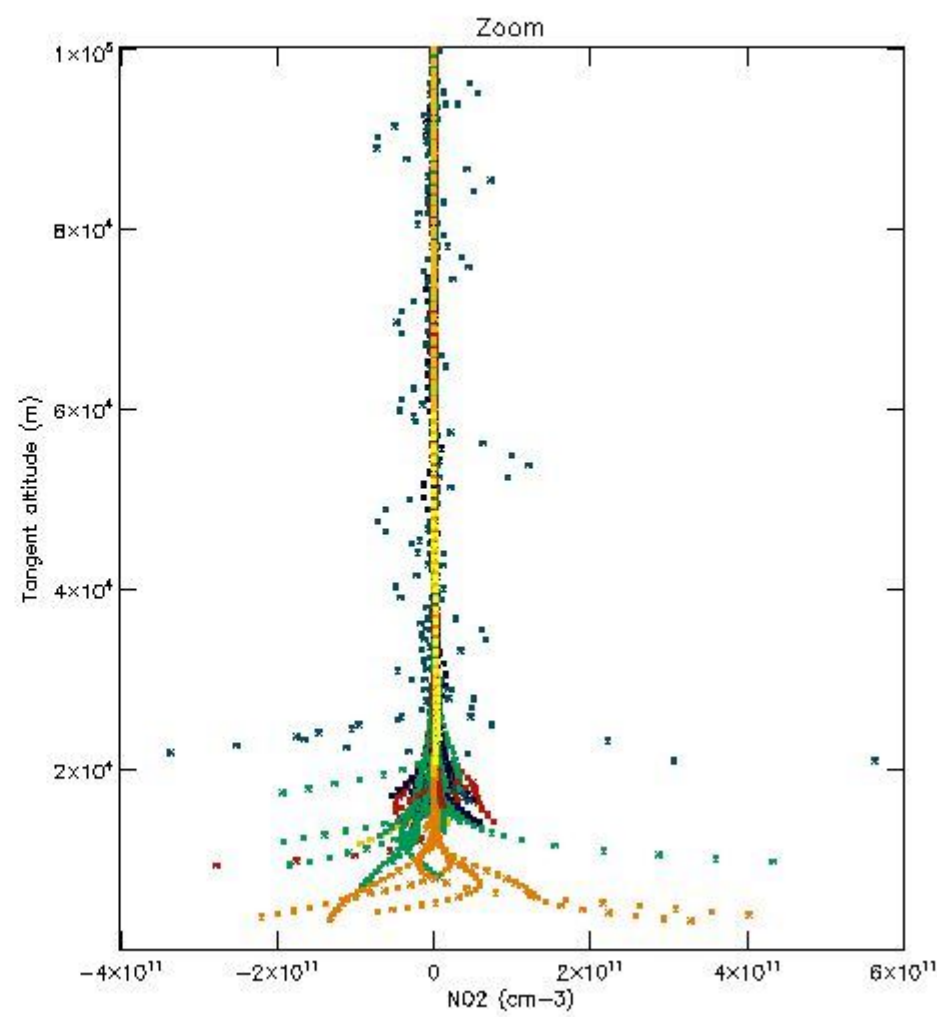
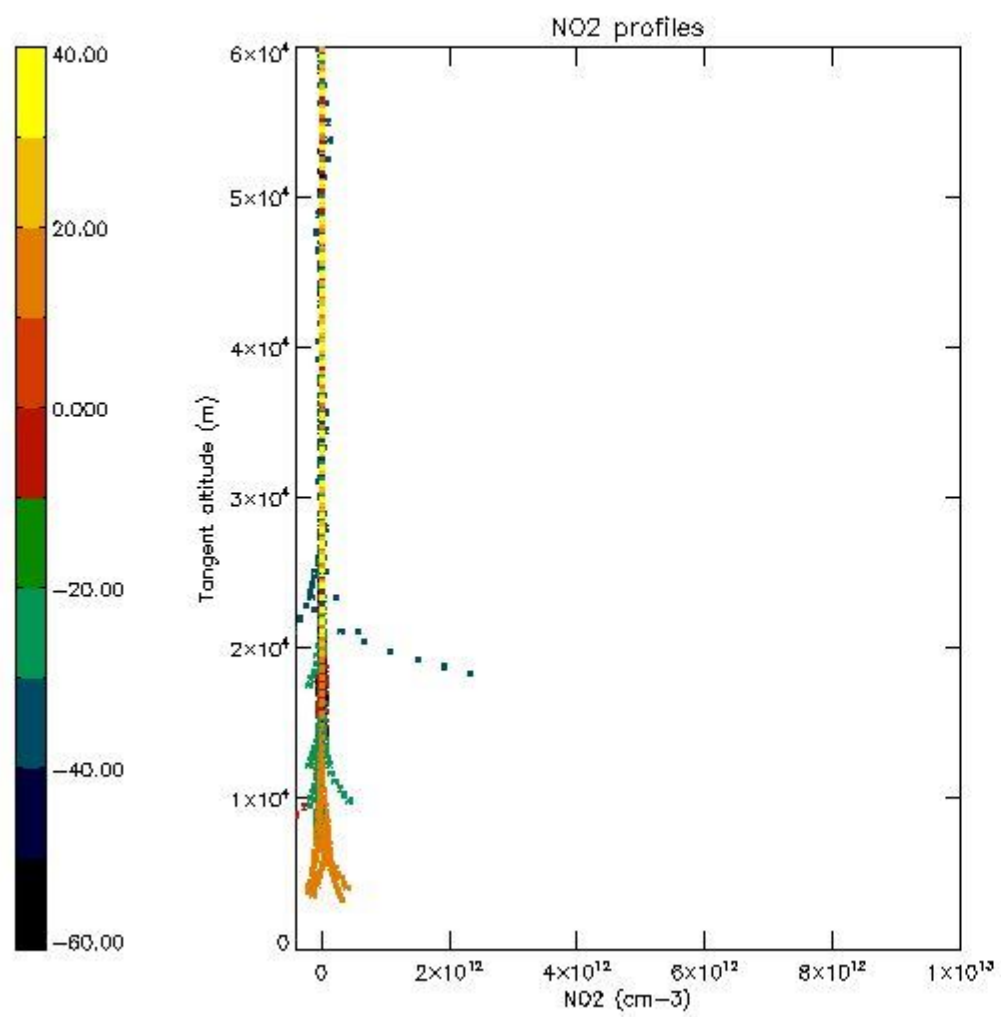
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



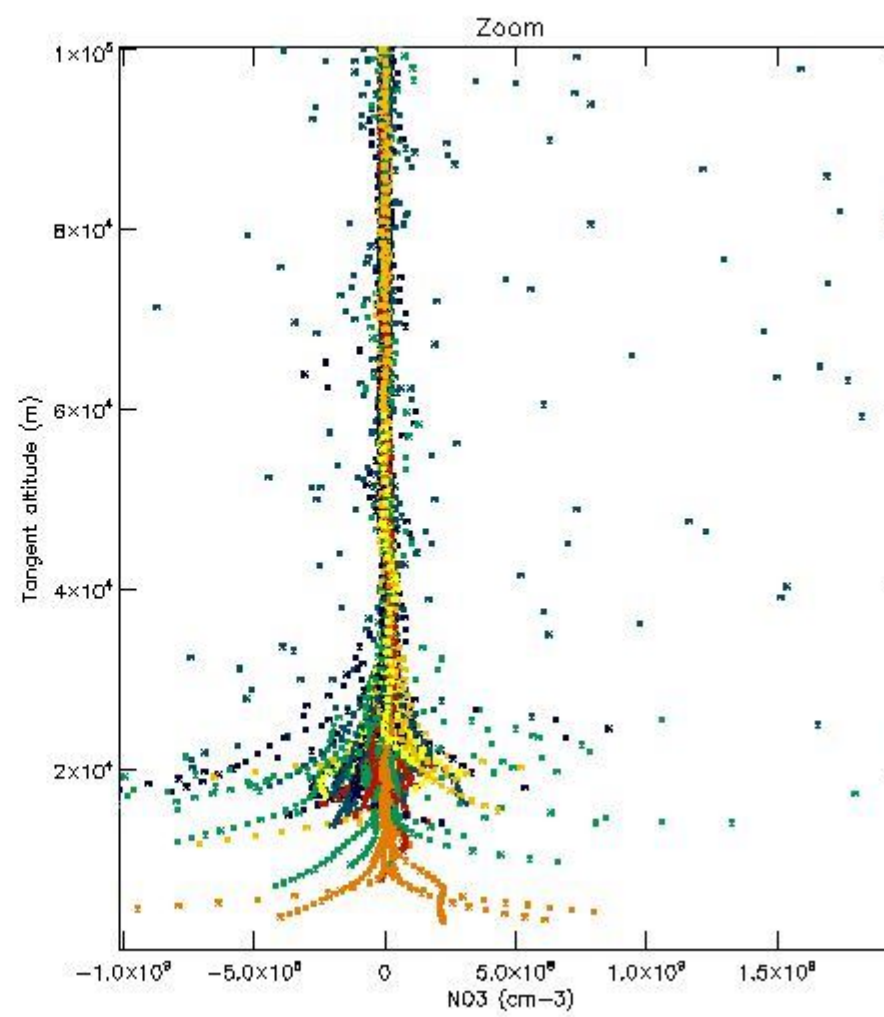
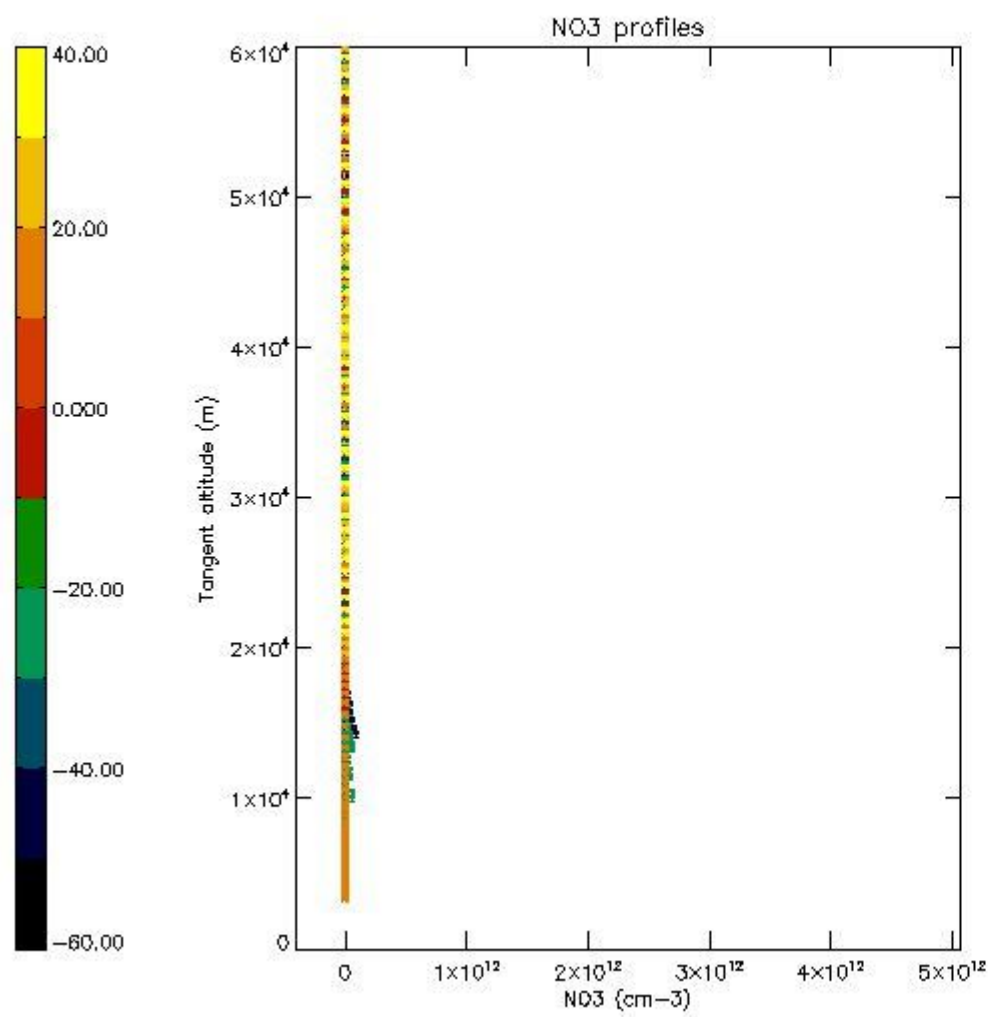
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



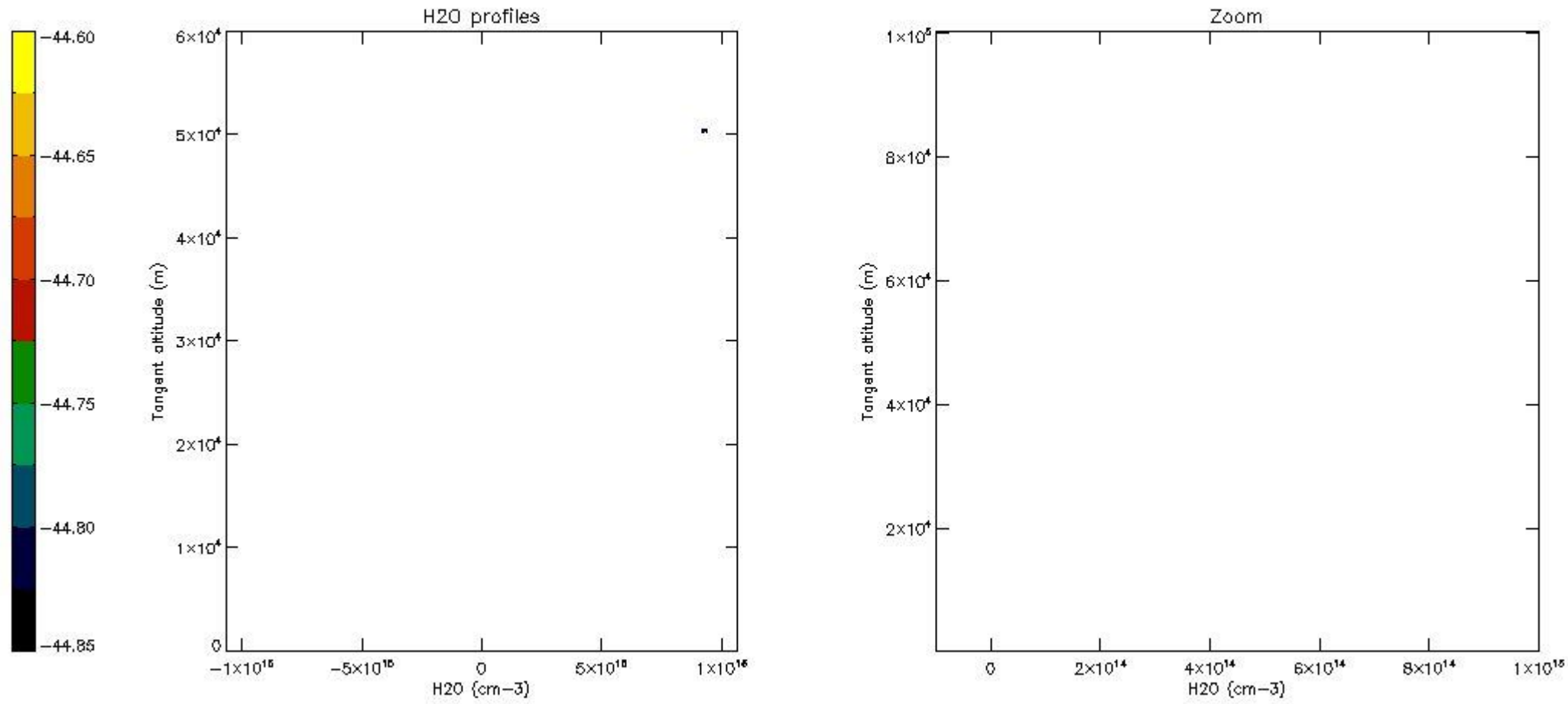
5.7 Plot NO3 profiles for all STD (dark without errors)

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	17-MAR-2011 00:04:17
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	17-MAR-2011 00:04:17
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	17-MAR-2011 00:04:17

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

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

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

[3.1 Plot of level 2 quality information per product \(time dependant\)](#)

[3.2 Plot of level 2 quality information per product \(world map\)](#)

[4. Level 1 Quality information per product \(stored on level 2 products\)](#)

[4.1 Plot of level 1 quality information per product \(time dependant\)](#)

[4.1.1 Plot of level 1 quality information per product \(time dependant\): ASCENDING](#)

[4.1.2 Plot of level 1 quality information per product \(time dependant\): DESCENDING](#)

[4.2 Plot of level 1 quality information per product \(world map\)](#)

[4.2.1 Plot of level 1 quality information per product \(world map\): ASCENDING](#)

[4.2.2 Plot of level 1 quality information per product \(world map\): DESCENDING](#)

[5. Ozone profiles based on quality statistics and other trace gas profiles](#)

[5.1 Ozone statistics based on quality of products](#)

[5.2 Plot ozone profiles for all STD \(dark without errors\)](#)

[5.3 Plot ozone profiles where STD < 20% \(dark without errors\)](#)

[5.4. Plot ozone profiles where STD < 10% \(dark without errors\)](#)

[5.5. Plot ozone profiles where STD < 5% \(dark without errors\)](#)

[5.6 Plot NO2 profiles for all STD \(dark without errors\)](#)

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

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

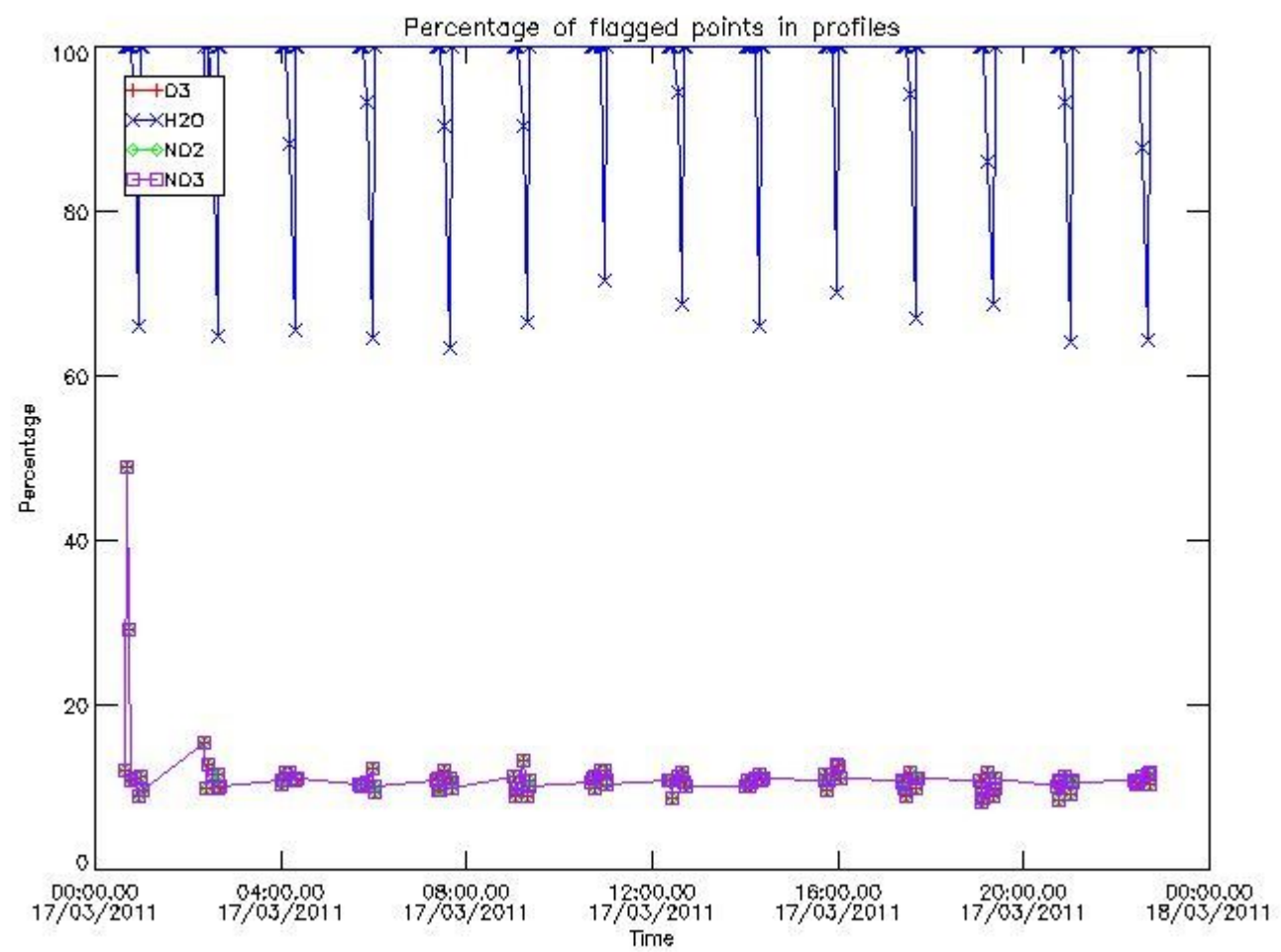
[6. Auxiliary Data Files used for the production reported in section 2](#)

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

Item	Value
Time of report generation	24APR2013 11:26:03
Data source version	GOMOS/6.01
Start time of products	17-03-2011 (17MAR2011 00:00:00)
Stop time of products	18-03-2011 (18MAR2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	325
Nb of prods with errors	0

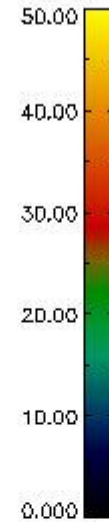
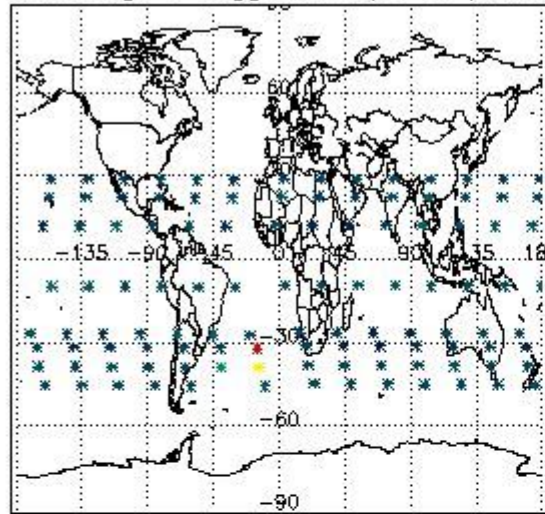
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110317_000417_000000383100_00289_47286_8530.N1	17-MAR-2011 00:04:17	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	47286	No
2	GOM_NL__2PRFIN20110317_000815_000000493100_00289_47286_8531.N1	17-MAR-2011 00:08:15	Bright	48.500	119	14Eta Dra	2.7270	4700.0	97	47286	No
3	GOM_NL__2PRFIN20110317_001735_000000383100_00289_47286_8532.N1	17-MAR-2011 00:17:35	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	47286	No
4	GOM_NL__2PRFIN20110317_001909_000000383100_00289_47286_8533.N1	17-MAR-2011 00:19:09	Bright	38.000	66	37Gam Cyg	2.2080	5900.0	76	47286	No
5	GOM_NL__2PRFIN20110317_002053_000000503100_00289_47286_8534.N1	17-MAR-2011 00:20:53	Bright	49.500	92	53Eps Cyg	2.5000	4500.0	99	47286	No
6	GOM_NL__2PRFIN20110317_002916_000000533100_00289_47286_8535.N1	17-MAR-2011 00:29:16	Twilight	52.500	11	53Alp Aql	0.76500	8000.0	105	47286	No
7	GOM_NL__2PRFIN20110317_003931_000000473100_00289_47286_8536.N1	17-MAR-2011 00:39:31	Dark	46.500	155	41Pi Sgr	2.9000	6600.0	93	47286	No
8	GOM_NL__2PRFIN20110317_004134_000000493100_00289_47286_8537.N1	17-MAR-2011 00:41:34	Dark	48.500	57	34Sig Sgr	2.0660	26000.	97	47286	No
9	GOM_NL__2PRFIN20110317_004300_000000573100_00289_47286_8538.N1	17-MAR-2011 00:43:00	Dark	57.000	137	22Lam Sgr	2.8240	4400.0	114	47286	No
10	GOM_NL__2PRFIN20110317_004503_000000483100_00289_47286_8539.N1	17-MAR-2011 00:45:03	Dark	47.500	38	20Eps Sgr	1.8360	11000.	95	47286	No
11	GOM_NL__2PRFIN20110317_005057_000000463100_00290_47287_8540.N1	17-MAR-2011 00:50:57	Dark	46.000	141	Bet Ara	2.8400	4600.0	92	47287	No
12	GOM_NL__2PRFIN20110317_005720_000000573100_00290_47287_8541.N1	17-MAR-2011 00:57:20	Dark	56.500	4	Alp1Cen	-0.010000	5800.0	113	47287	No
13	GOM_NL__2PRFIN20110317_005920_000000493100_00290_47287_8542.N1	17-MAR-2011 00:59:20	Dark	49.000	78	Alp Lup	2.3040	28000.	98	47287	No
14	GOM_NL__2PRFIN20110317_010048_000000543100_00290_47287_8543.N1	17-MAR-2011 01:00:48	Dark	53.500	81	Eta Cen	2.3560	28000.	107	47287	No
15	GOM_NL__2PRFIN20110317_010353_000000583100_00290_47287_8544.N1	17-MAR-2011 01:03:53	Straylight	58.000	54	5The Cen	2.0550	4500.0	116	47287	No
16	GOM_NL__2PRFIN20110317_010539_000000493100_00290_47287_8545.N1	17-MAR-2011 01:05:39	Straylight	49.000	123	lot Cen	2.7500	10200.	98	47287	No
17	GOM_NL__2PRFIN20110317_011121_000000563100_00290_47287_8546.N1	17-MAR-2011 01:11:21	Straylight	56.000	106	9Bet Crv	2.6480	5600.0	112	47287	No
18	GOM_NL__2PRFIN20110317_011338_000000513100_00290_47287_8547.N1	17-MAR-2011 01:13:38	Twilight	50.500	100	4Gam Crv	2.5800	13100.	101	47287	No
19	GOM_NL__2PRFIN20110317_012436_000000473100_00290_47287_8548.N1	17-MAR-2011 01:24:36	Bright	47.000	62	94Bet Leo	2.1360	9700.0	94	47287	No
20	GOM_NL__2PRFIN20110317_013250_000000403100_00290_47287_8549.N1	17-MAR-2011 01:32:50	Bright	40.000	174	52Psi UMa	3.0040	4400.0	80	47287	No
21	GOM_NL__2PRFIN20110317_013601_000000393100_00290_47287_8550.N1	17-MAR-2011 01:36:01	Bright	38.500	82	48Bet UMa	2.3650	10600.	77	47287	No
22	GOM_NL__2PRFIN20110317_013731_000000383100_00290_47287_8551.N1	17-MAR-2011 01:37:31	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	47287	No
23	GOM_NL__2PRFIN20110317_013857_000000453100_00290_47287_8552.N1	17-MAR-2011 01:38:57	Bright	45.000	32	77Eps UMa	1.7630	11000.	90	47287	No
24	GOM_NL__2PRFIN20110317_014431_000000433100_00290_47287_8553.N1	17-MAR-2011 01:44:31	Bright	42.500	60	7Bet UMi	2.0810	3950.0	85	47287	No
25	GOM_NL__2PRFIN20110317_014829_000000503100_00290_47287_8554.N1	17-MAR-2011 01:48:29	Bright	50.000	119	14Eta Dra	2.7270	4700.0	100	47287	No
26	GOM_NL__2PRFIN20110317_015750_000000373100_00290_47287_8555.N1	17-MAR-2011 01:57:50	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	47287	No
27	GOM_NL__2PRFIN20110317_015923_000000373100_00290_47287_8556.N1	17-MAR-2011 01:59:23	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	47287	No
28	GOM_NL__2PRFIN20110317_020107_000000373100_00290_47287_8557.N1	17-MAR-2011 02:01:07	Bright	36.500	92	53Eps Cyg	2.5000	4500.0	73	47287	No
29	GOM_NL__2PRFIN20110317_020931_000000513100_00290_47287_8558.N1	17-MAR-2011 02:09:31	Twilight	51.000	11	53Alp Aql	0.76500	8000.0	102	47287	No
30	GOM_NL__2PRFIN20110317_022149_000000463100_00290_47287_8559.N1	17-MAR-2011 02:21:49	Dark	46.000	57	34Sig Sgr	2.0660	26000.	92	47287	No
31	GOM_NL__2PRFIN20110317_022316_000000523100_00290_47287_8560.N1	17-MAR-2011 02:23:16	Dark	51.500	137	22Lam Sgr	2.8240	4400.0	103	47287	No
32	GOM_NL__2PRFIN20110317_022518_000000483100_00290_47287_8561.N1	17-MAR-2011 02:25:18	Dark	47.500	38	20Eps Sgr	1.8360	11000.	95	47287	No
33	GOM_NL__2PRFIN20110317_023112_000000453100_00291_47288_8564.N1	17-MAR-2011 02:31:12	Dark	44.500	141	Bet Ara	2.8400	4600.0	89	47288	No
34	GOM_NL__2PRFIN20110317_023735_000000453100_00291_47288_8565.N1	17-MAR-2011 02:37:35	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	47288	No
35	GOM_NL__2PRFIN20110317_023935_000000523100_00291_47288_8566.N1	17-MAR-2011 02:39:35	Dark	52.000	78	Alp Lup	2.3040	28000.	104	47288	No
36	GOM_NL__2PRFIN20110317_024103_000000503100_00291_47288_8567.N1	17-MAR-2011 02:41:03	Dark	50.000	81	Eta Cen	2.3560	28000.	100	47288	No
37	GOM_NL__2PRFIN20110317_024408_000000643100_00291_47288_8568.N1	17-MAR-2011 02:44:08	Straylight	63.500	54	5The Cen	2.0550	4500.0	127	47288	No
38	GOM_NL__2PRFIN20110317_024554_000000503100_00291_47288_8569.N1	17-MAR-2011 02:45:54	Straylight	50.000	123	lot Cen	2.7500	10200.	100	47288	No
39	GOM_NL__2PRFIN20110317_025135_000000553100_00291_47288_8570.N1	17-MAR-2011 02:51:35	Straylight	55.000	106	9Bet Crv	2.6480	5600.0	110	47288	No
40	GOM_NL__2PRFIN20110317_025352_000000493100_00291_47288_8571.N1	17-MAR-2011 02:53:52	Twilight	49.000	100	4Gam Crv	2.5800	13100.	98	47288	No
41	GOM_NL__2PRFIN20110317_030450_000000473100_00291_47288_8572.N1	17-MAR-2011 03:04:50	Bright	46.500	62	94Bet Leo	2.1360	9700.0	93	47288	No
42	GOM_NL__2PRFIN20110317_031303_000000383100_00291_47288_8573.N1	17-MAR-2011 03:13:03	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	47288	No

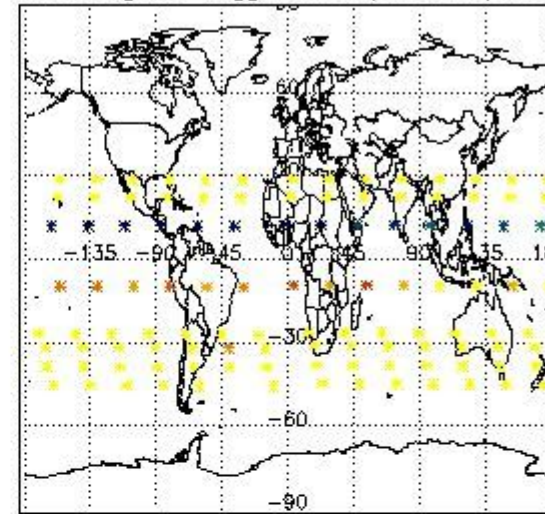


3.2 Plot quality information per product (world map)

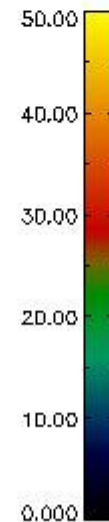
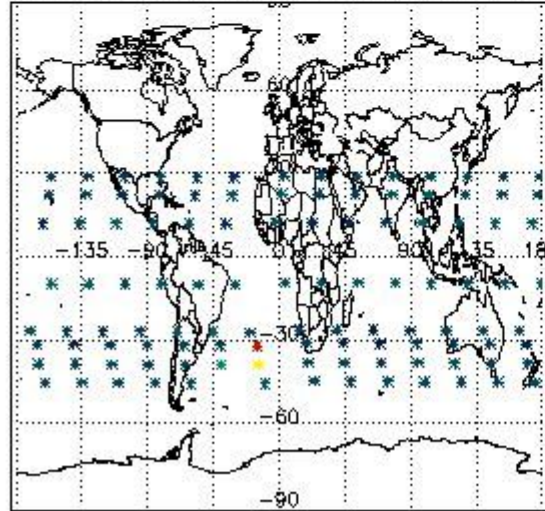
Percentage of flagged data per O3 profile



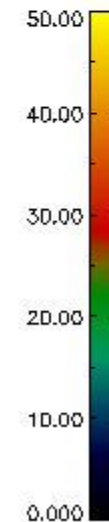
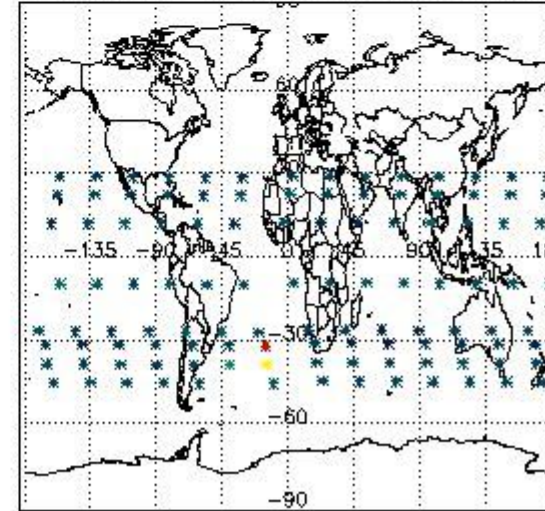
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

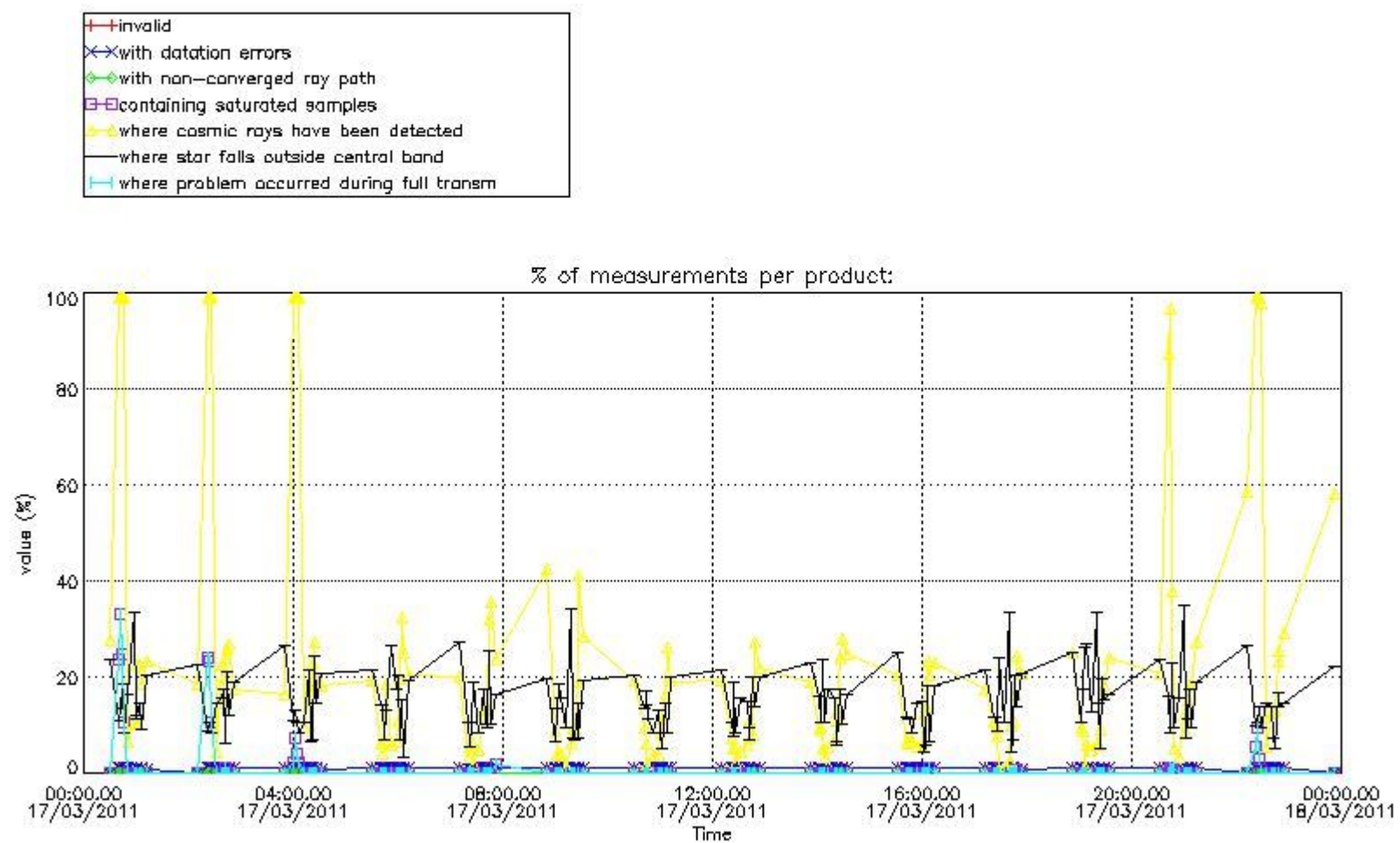


4. Level 1 quality information per product

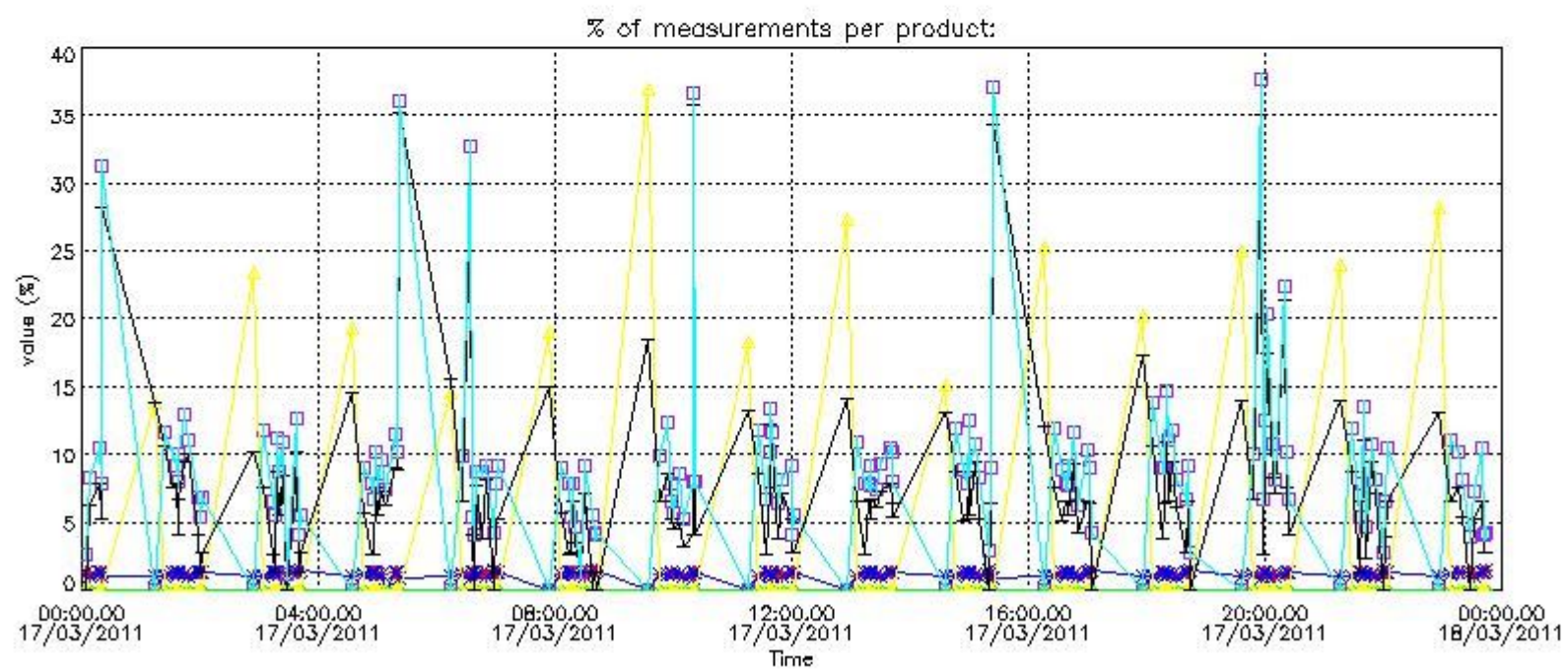
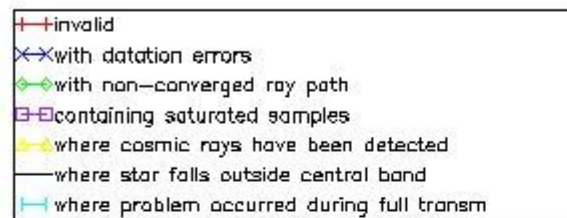
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

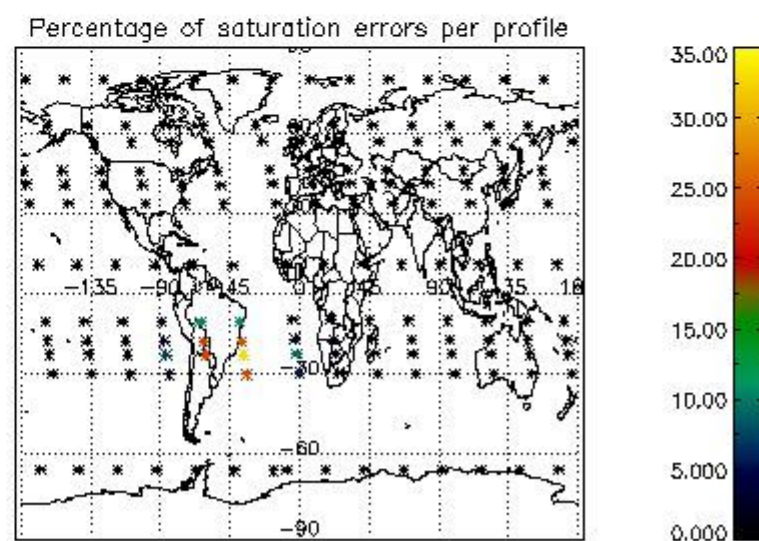
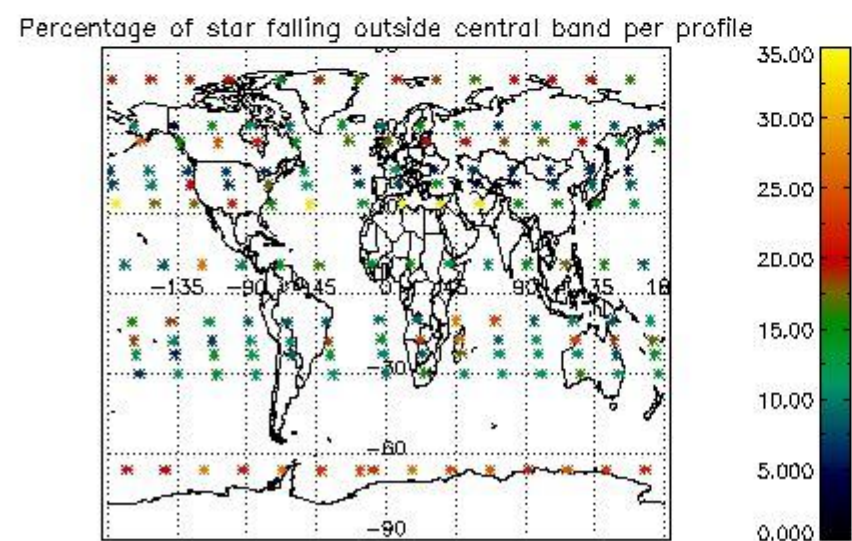
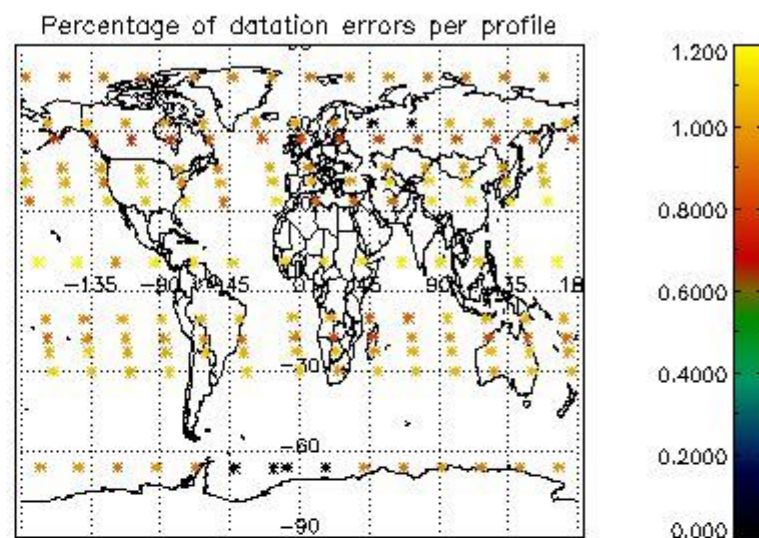
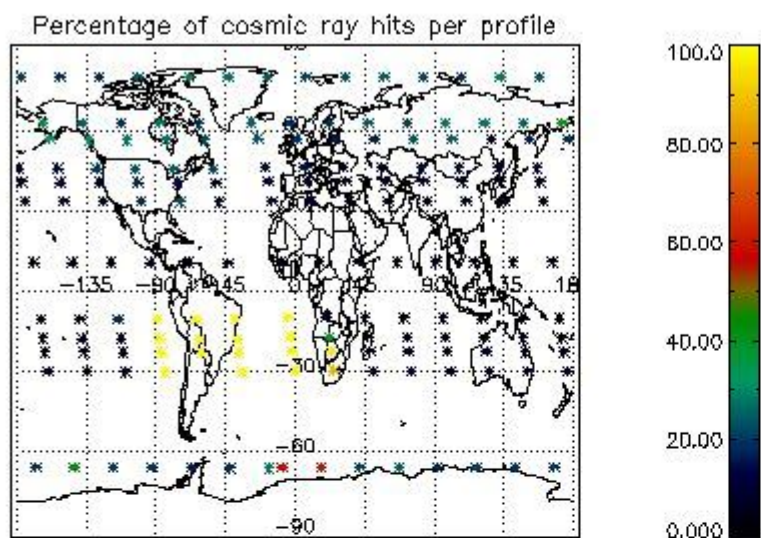


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

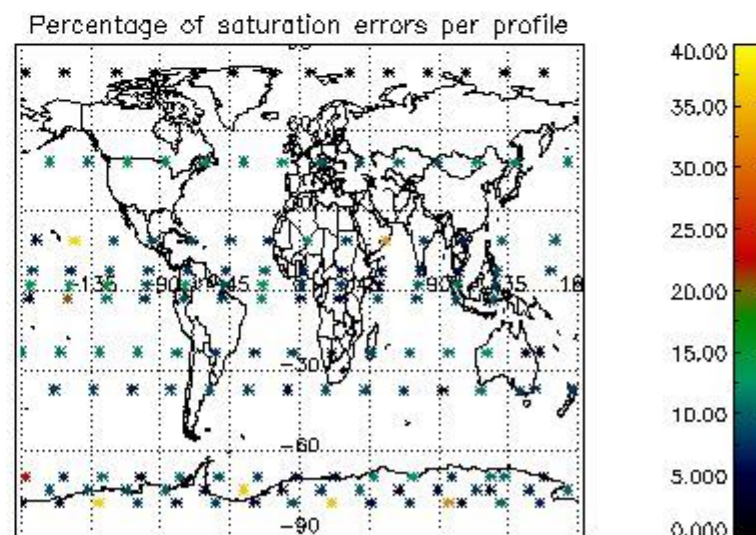
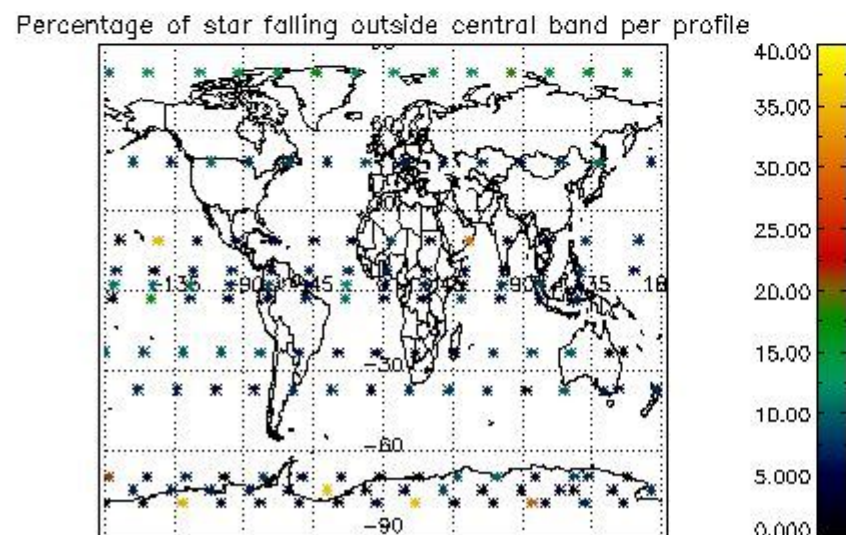
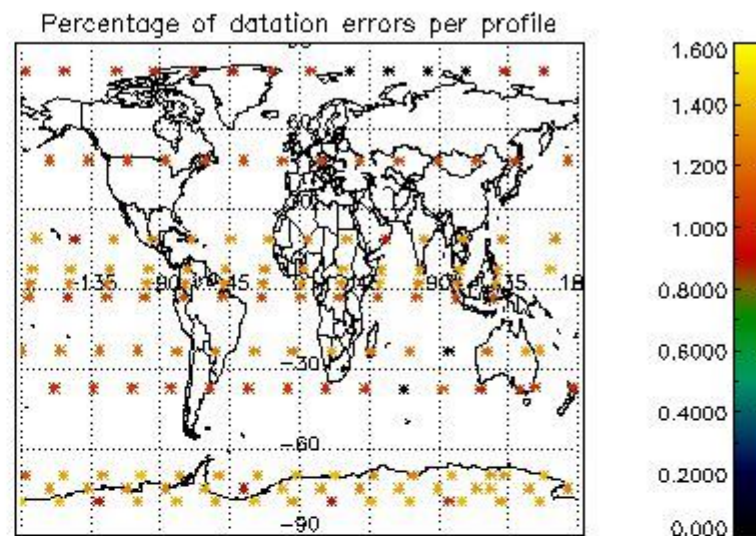
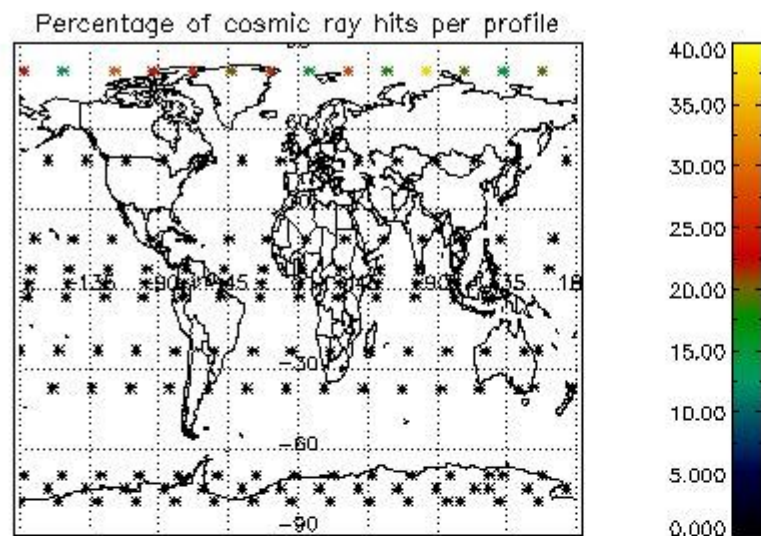


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

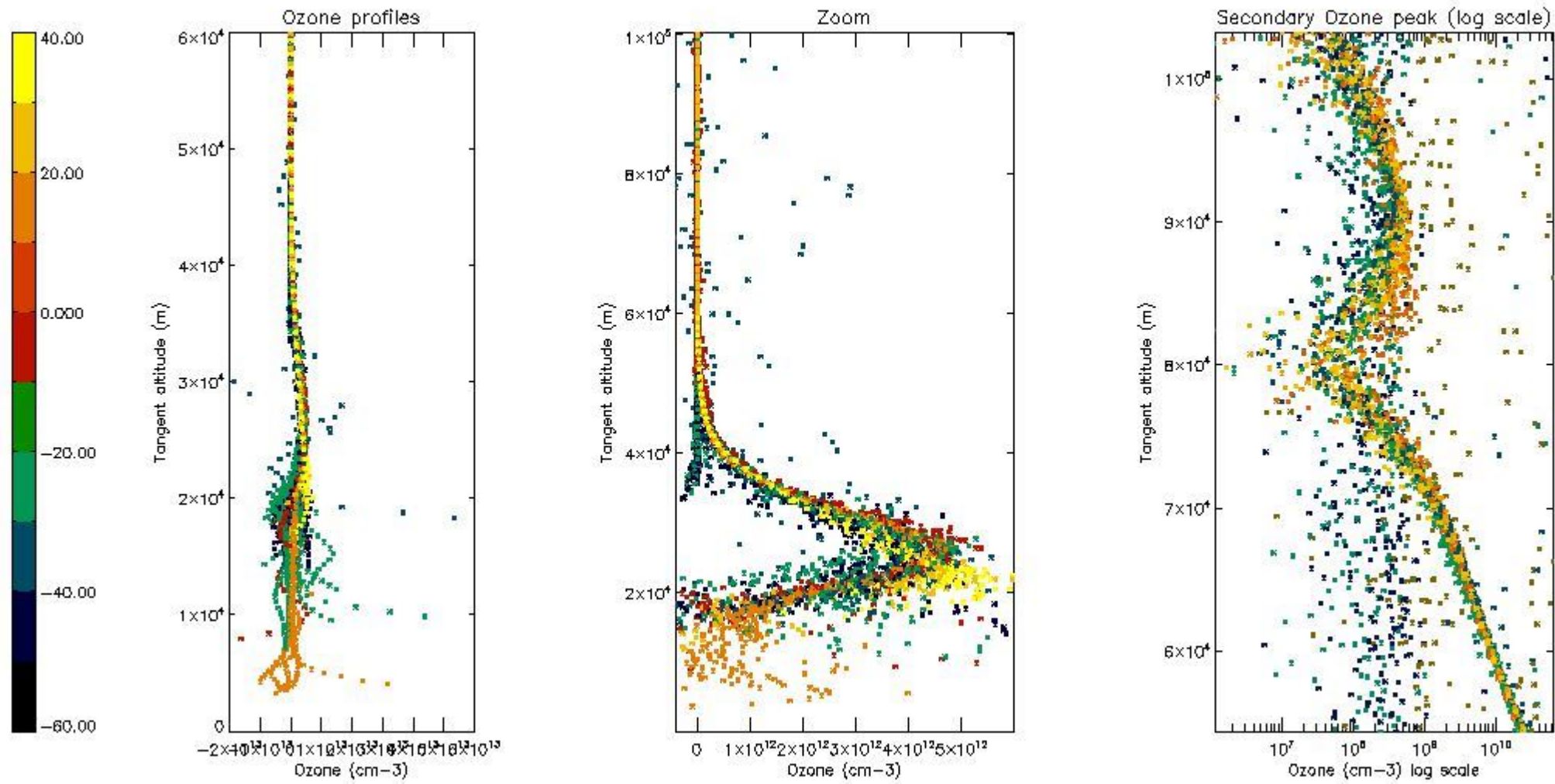
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	36
STD < 20	17

STD < 10	13
STD < 5	9

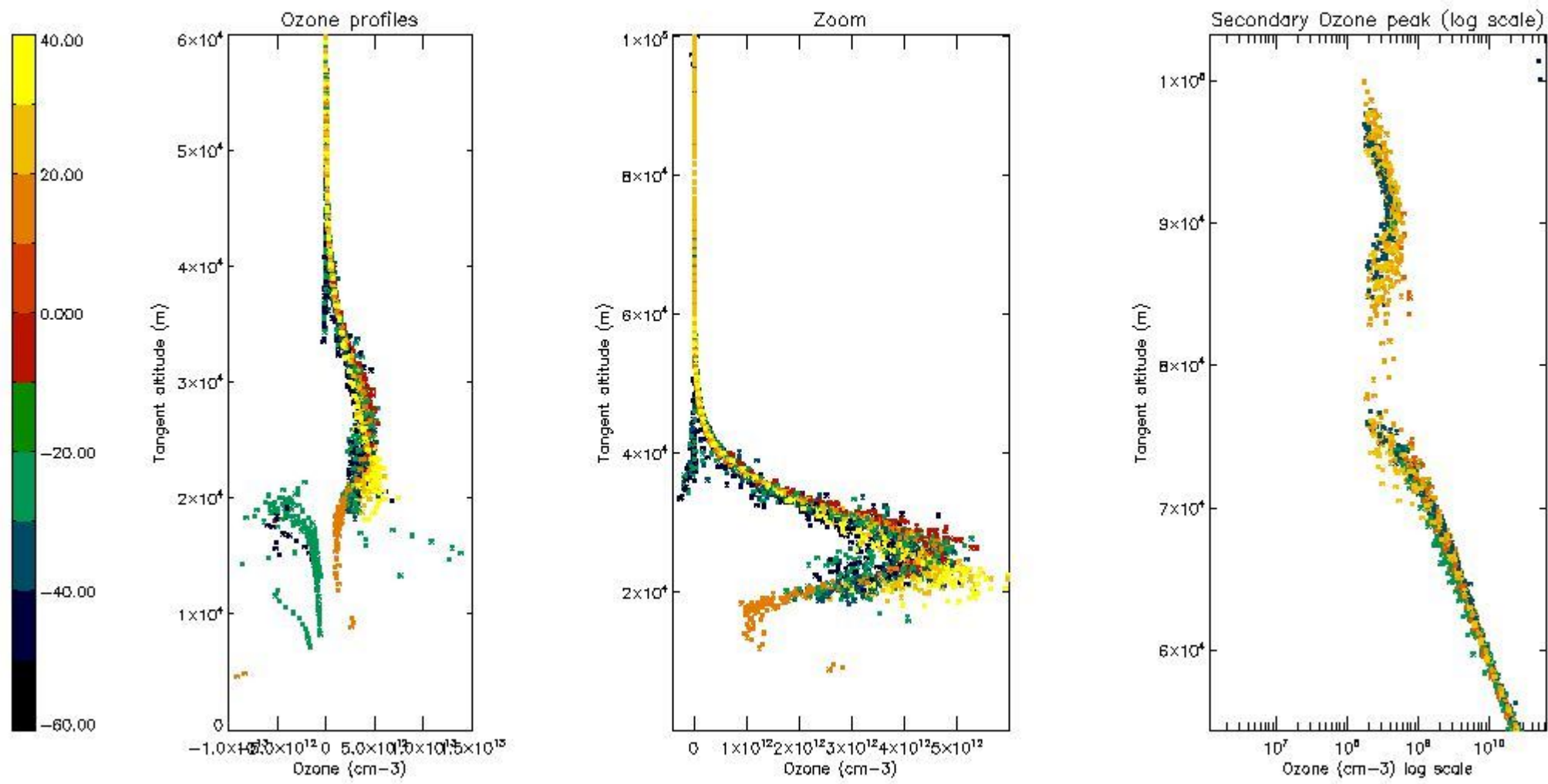
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



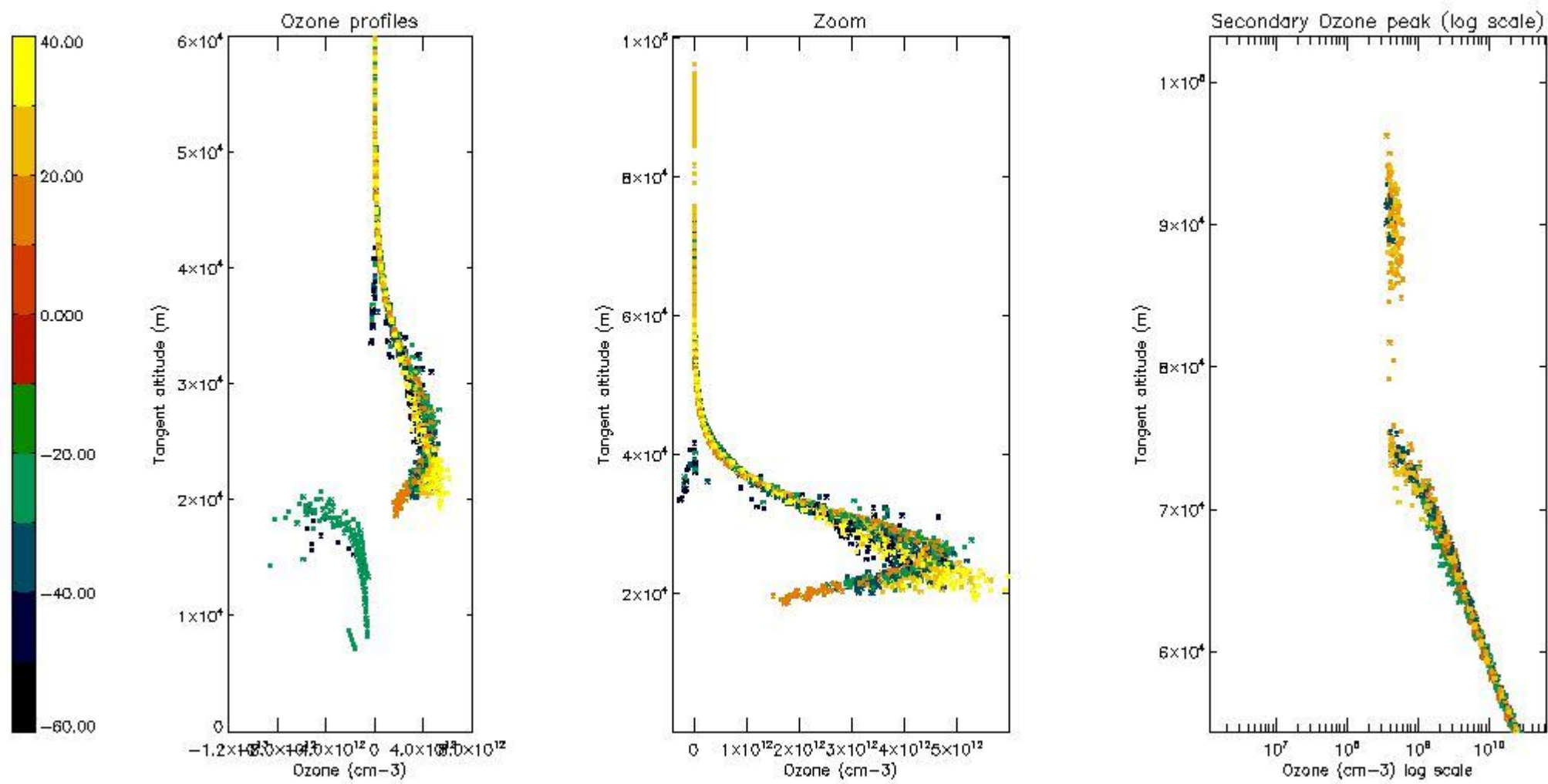
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



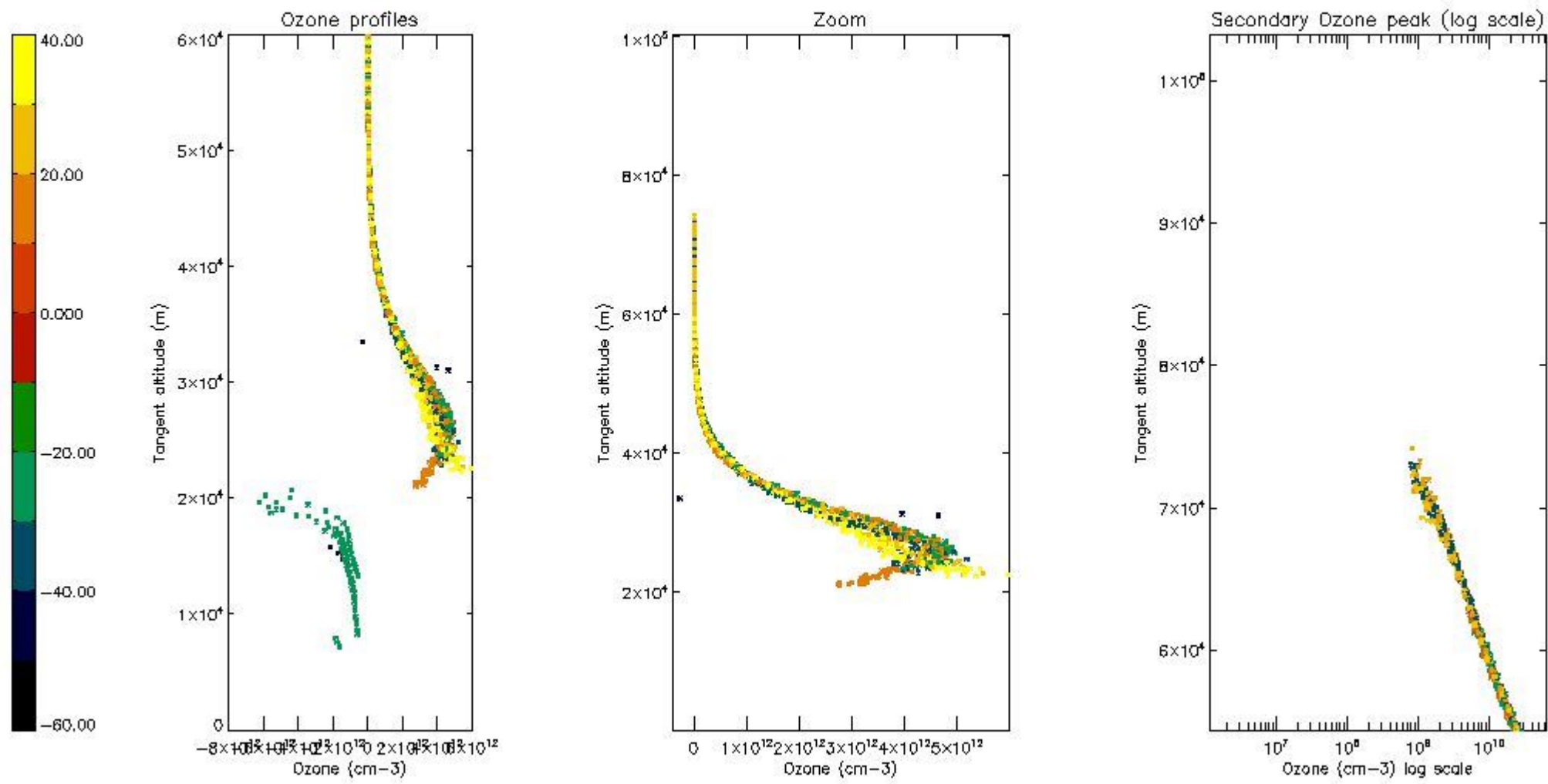
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



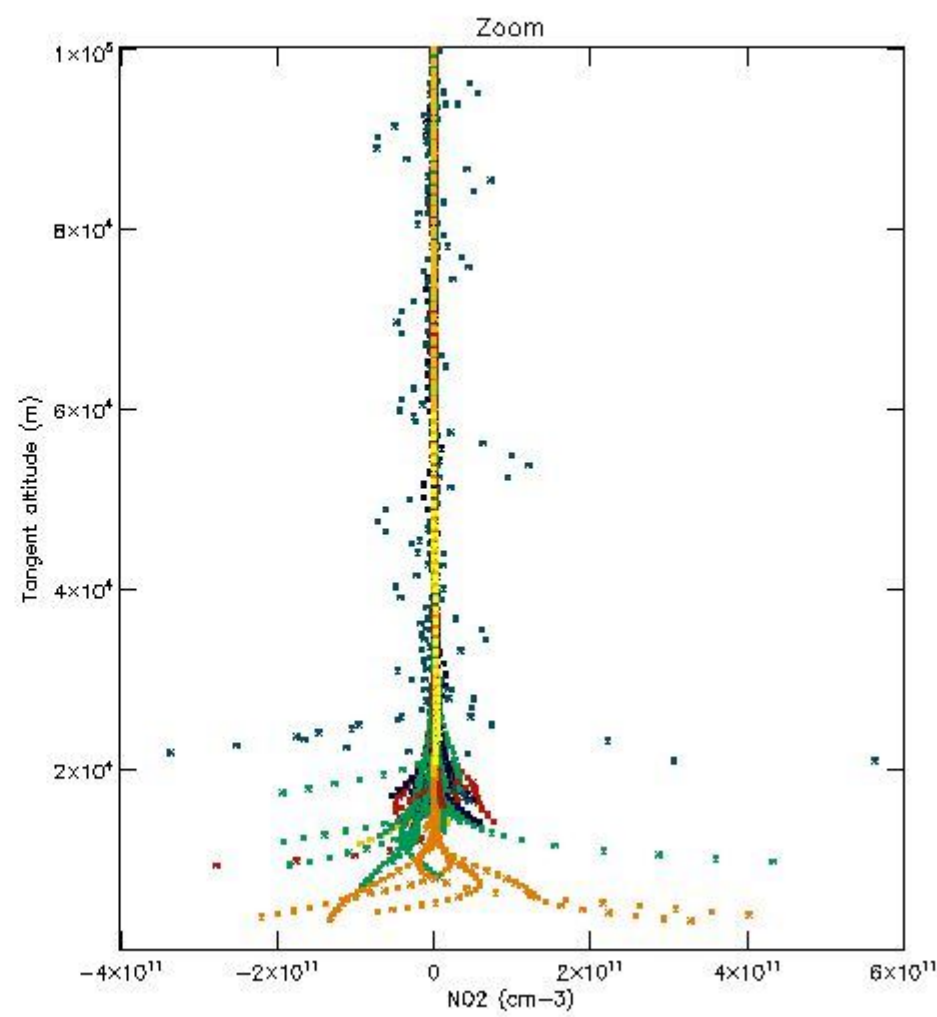
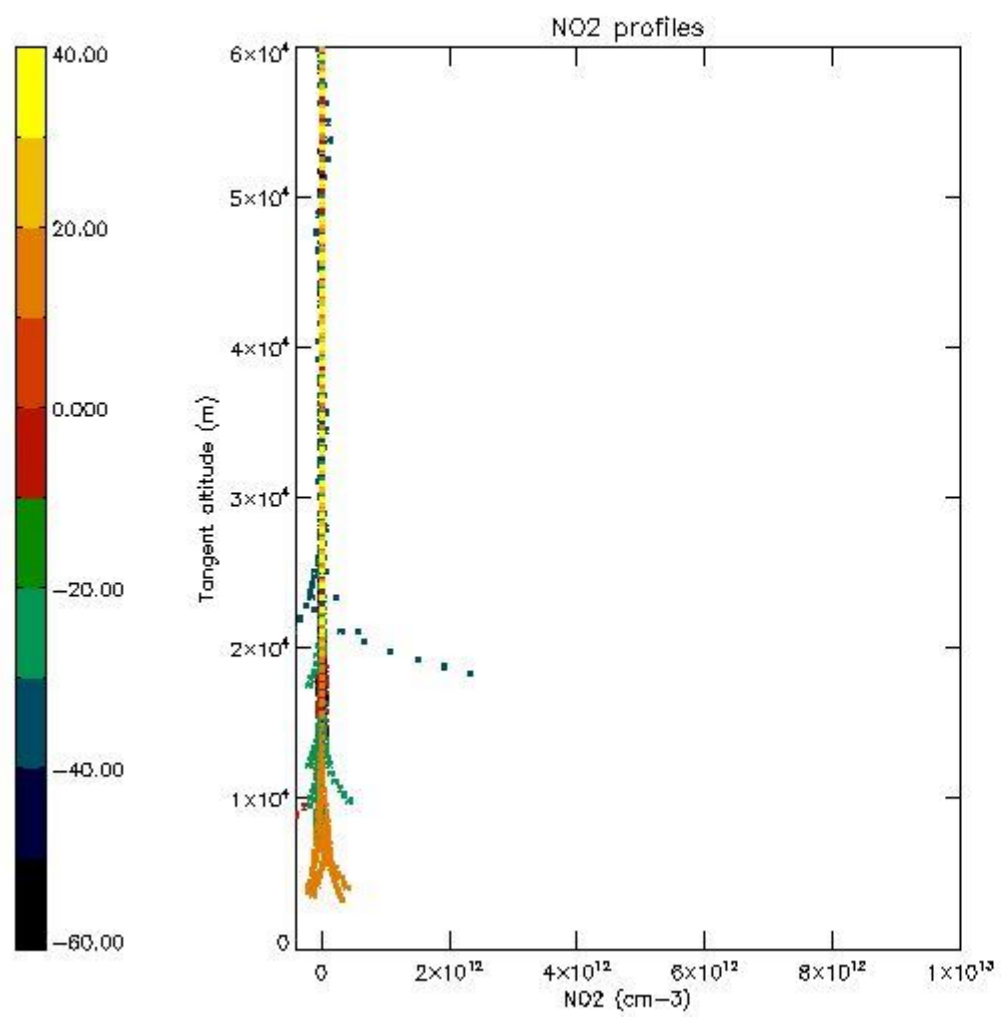
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



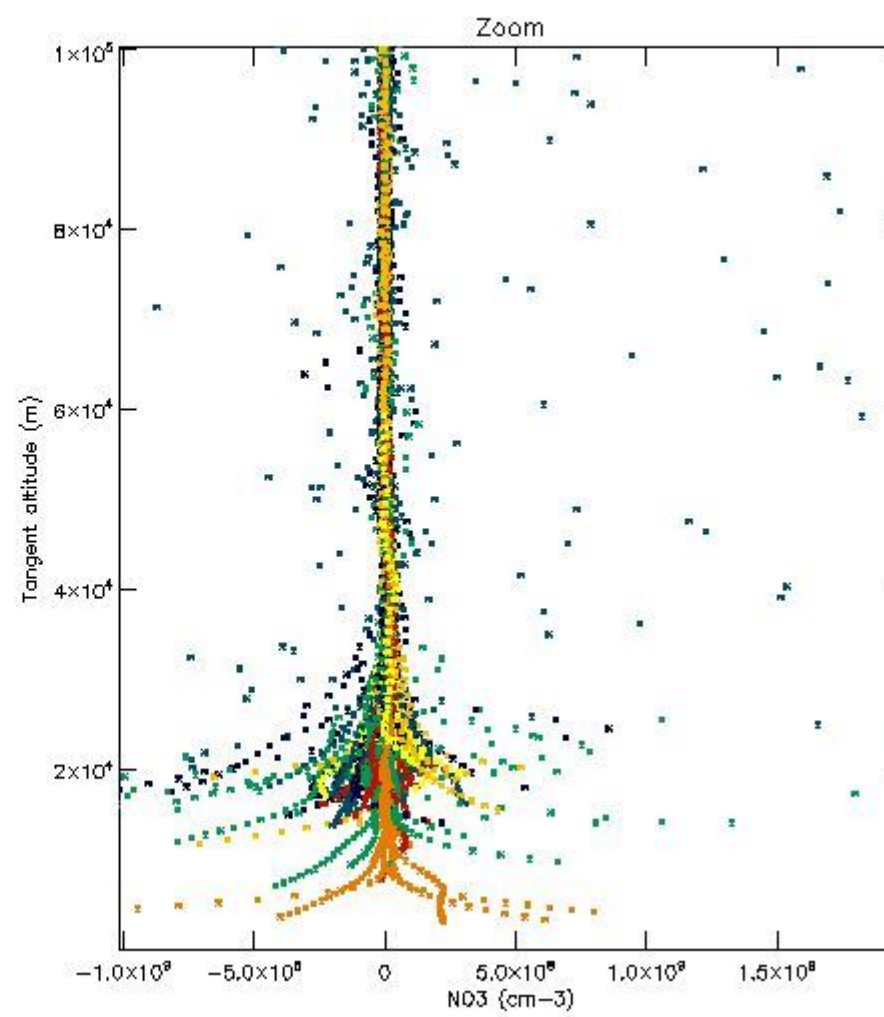
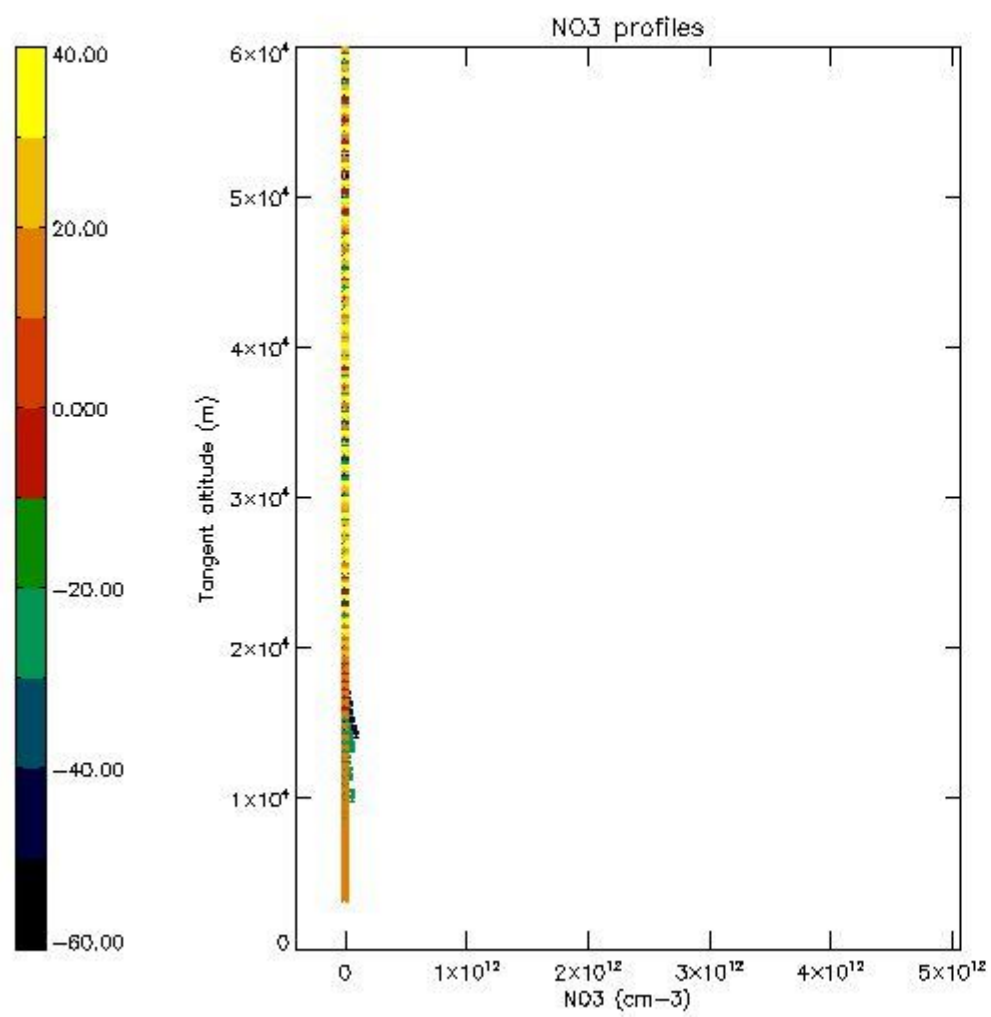
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



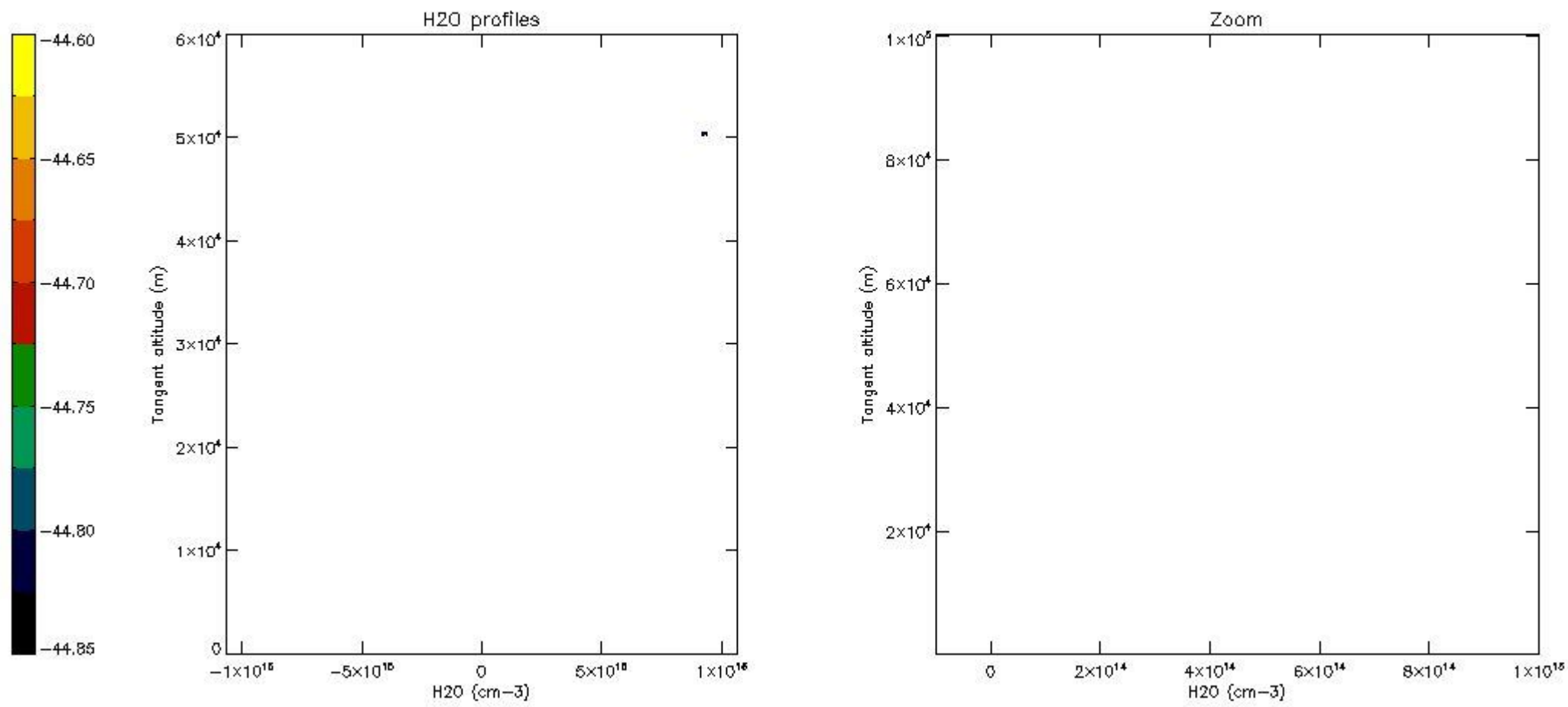
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

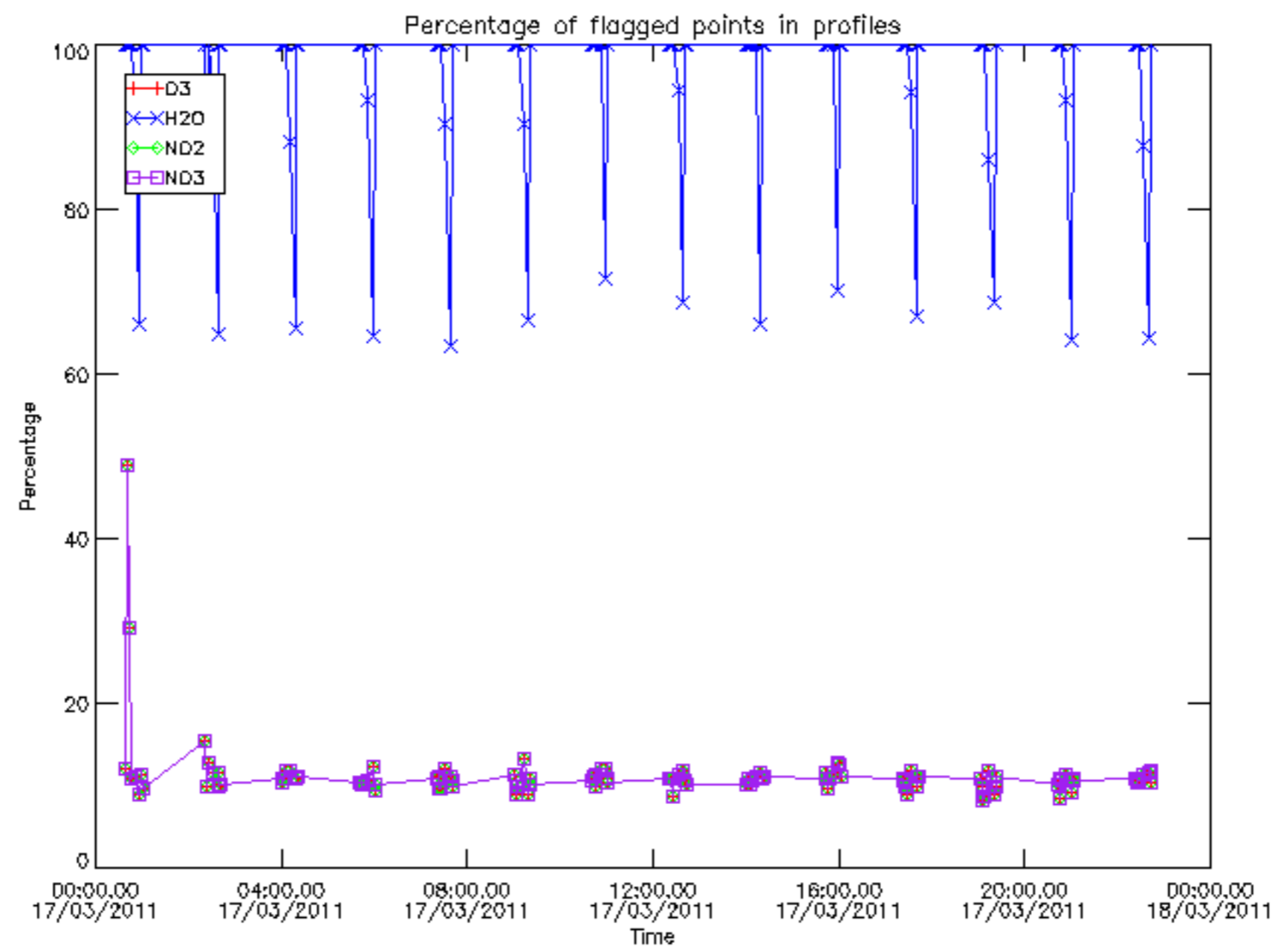
The colorbar represents the latitude.



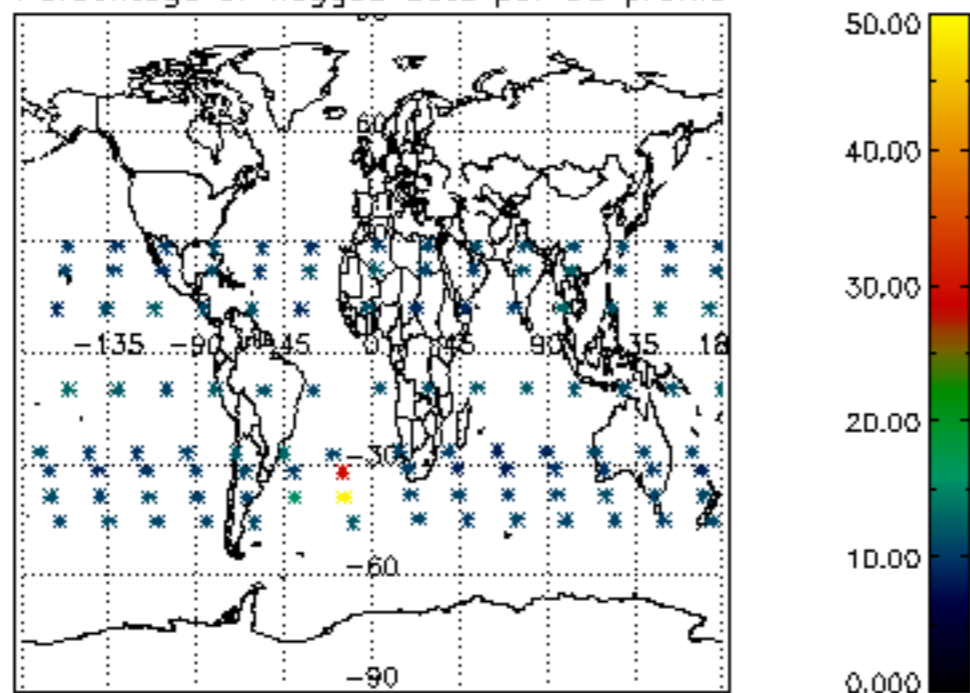
6. Auxiliary Data Files used for the production reported in section 2

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.

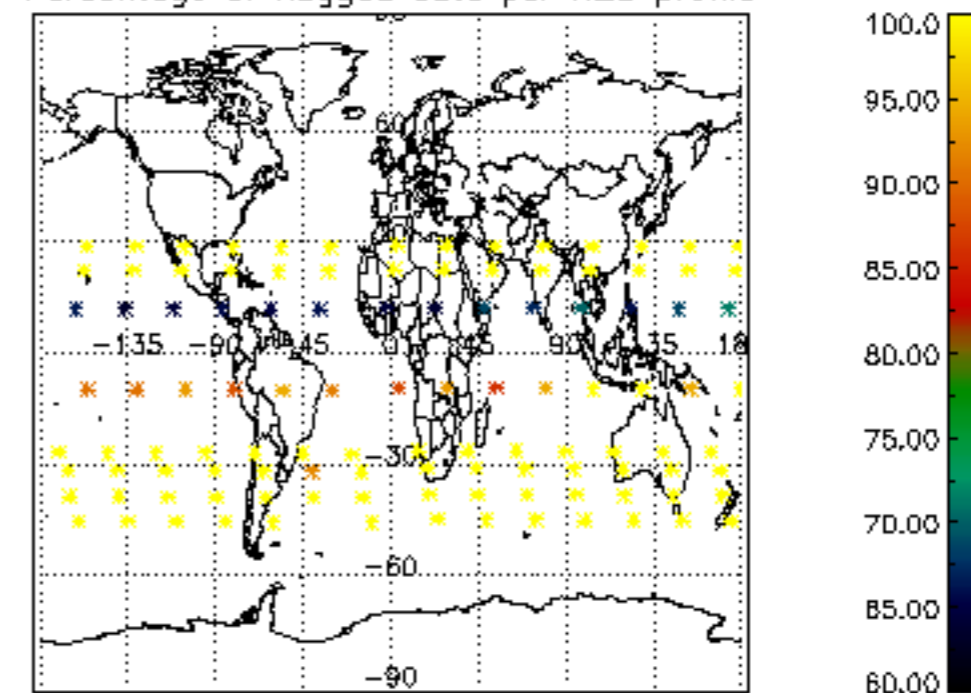
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	17-MAR-2011 00:04:17
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	17-MAR-2011 00:04:17
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	17-MAR-2011 00:04:17



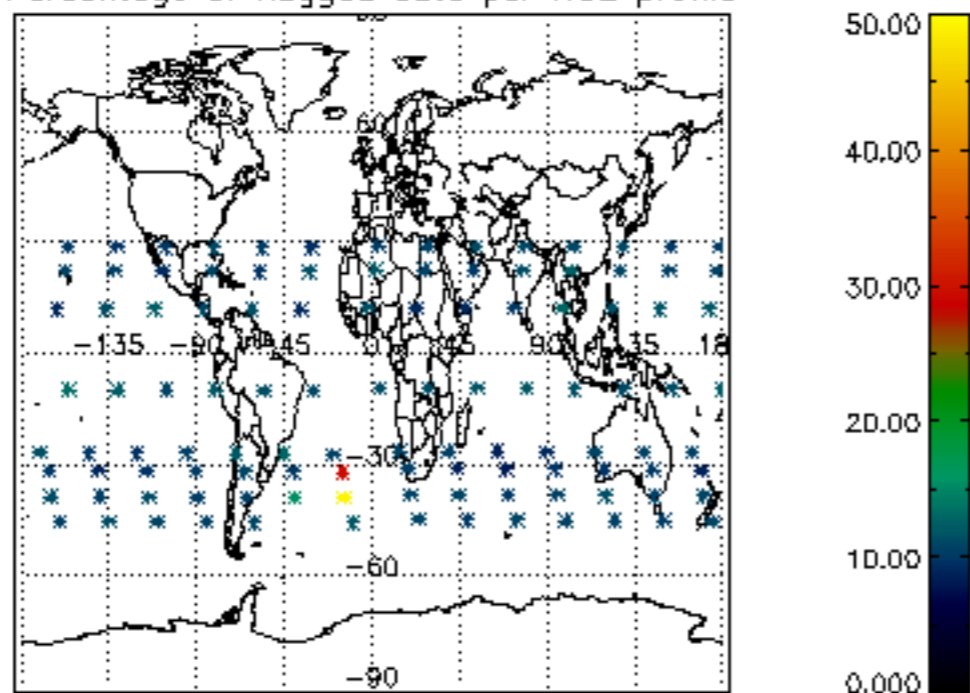
Percentage of flagged data per D3 profile



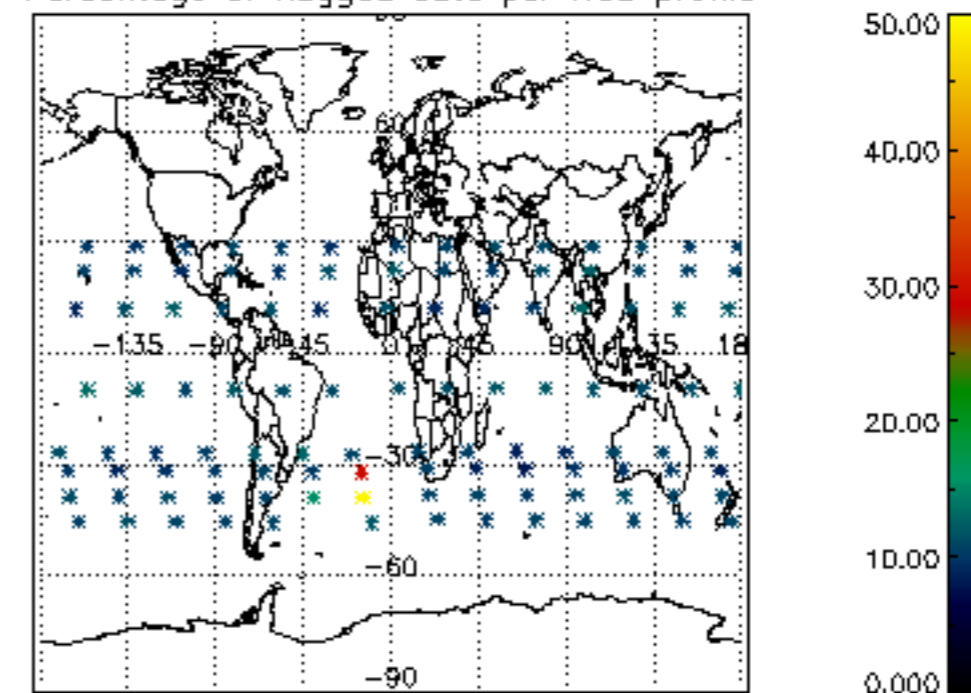
Percentage of flagged data per H2O profile

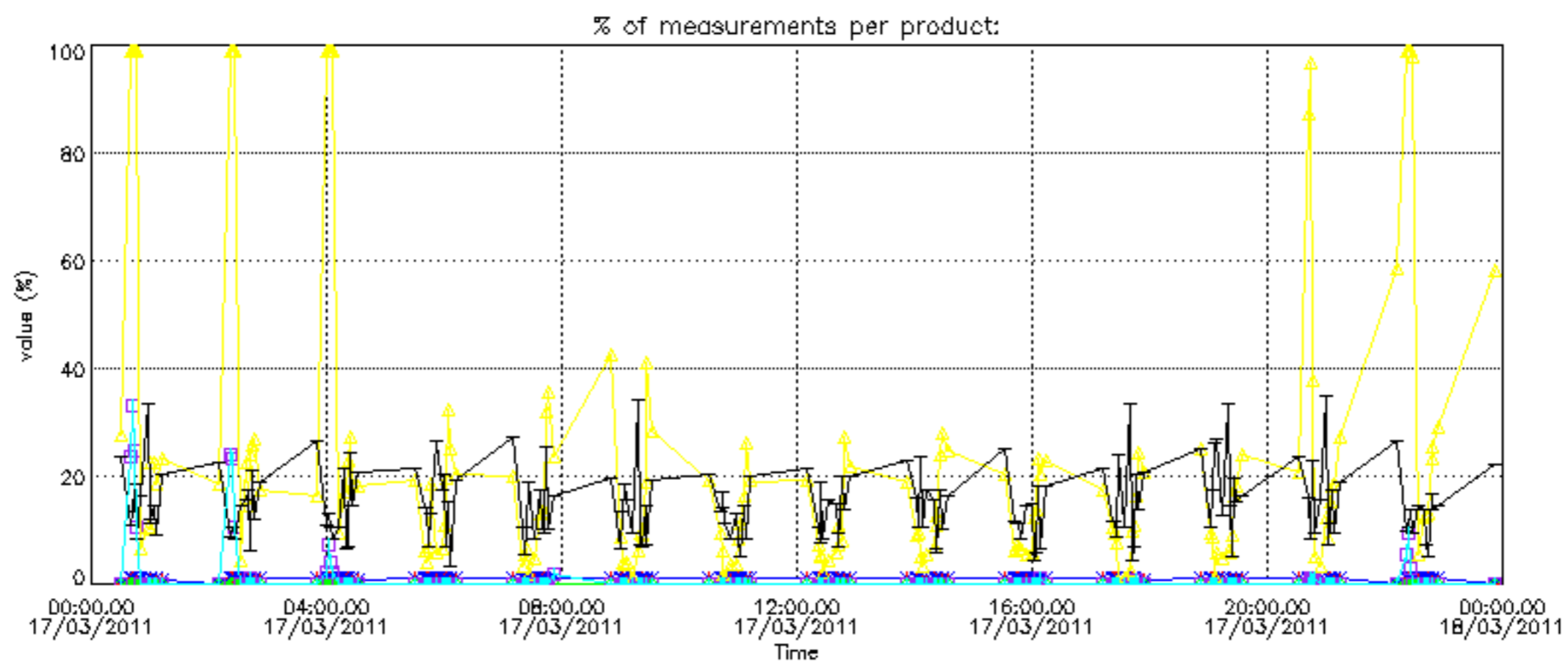


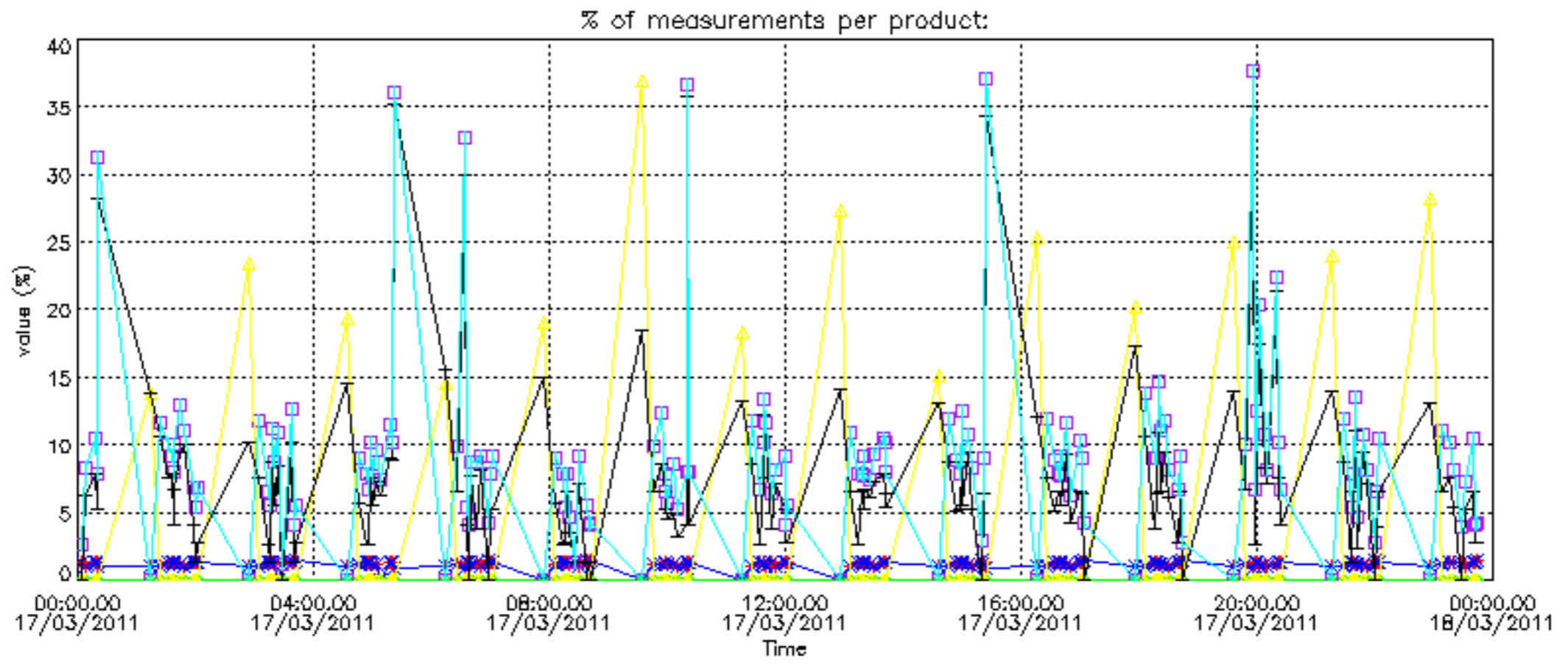
Percentage of flagged data per NO2 profile



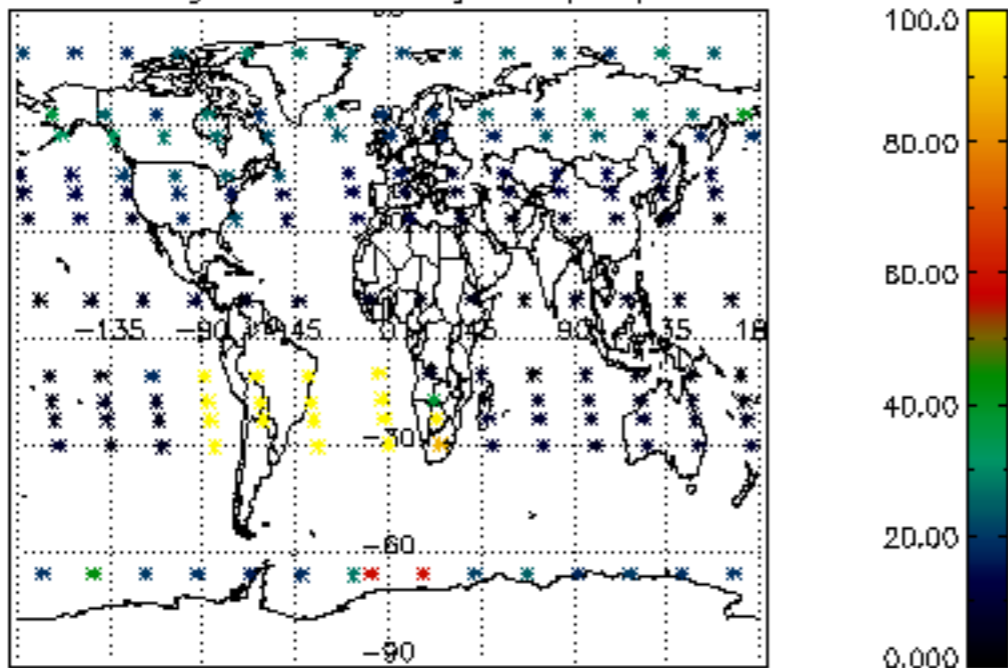
Percentage of flagged data per NO3 profile



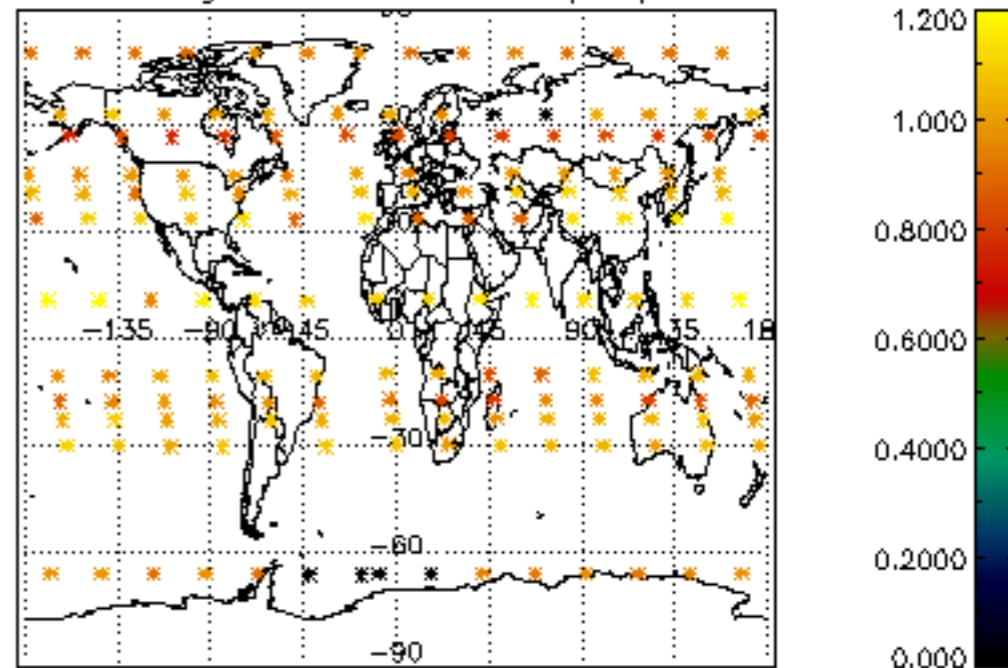




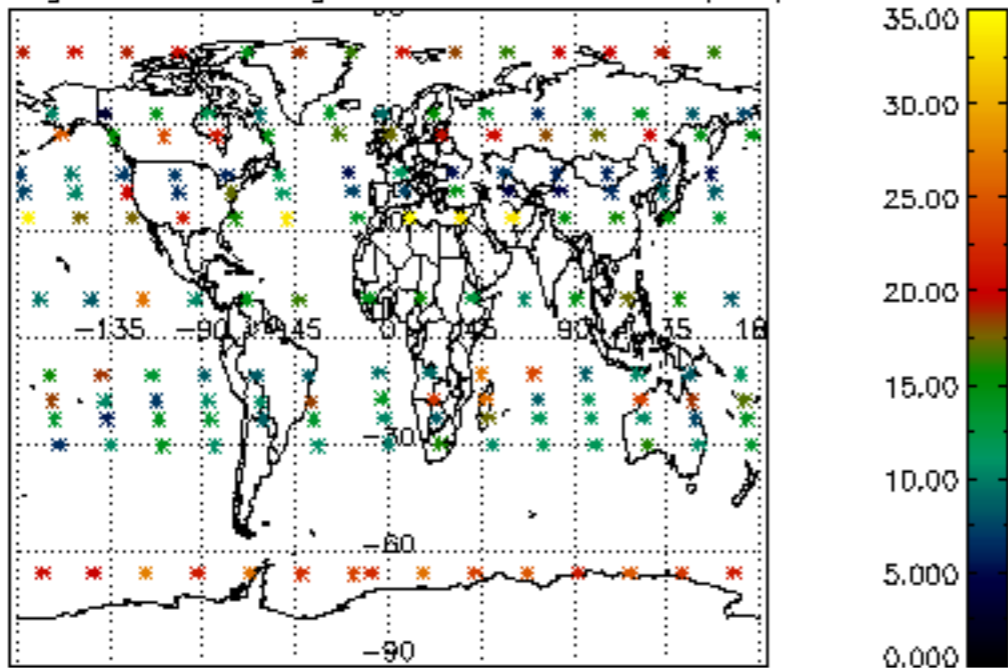
Percentage of cosmic ray hits per profile



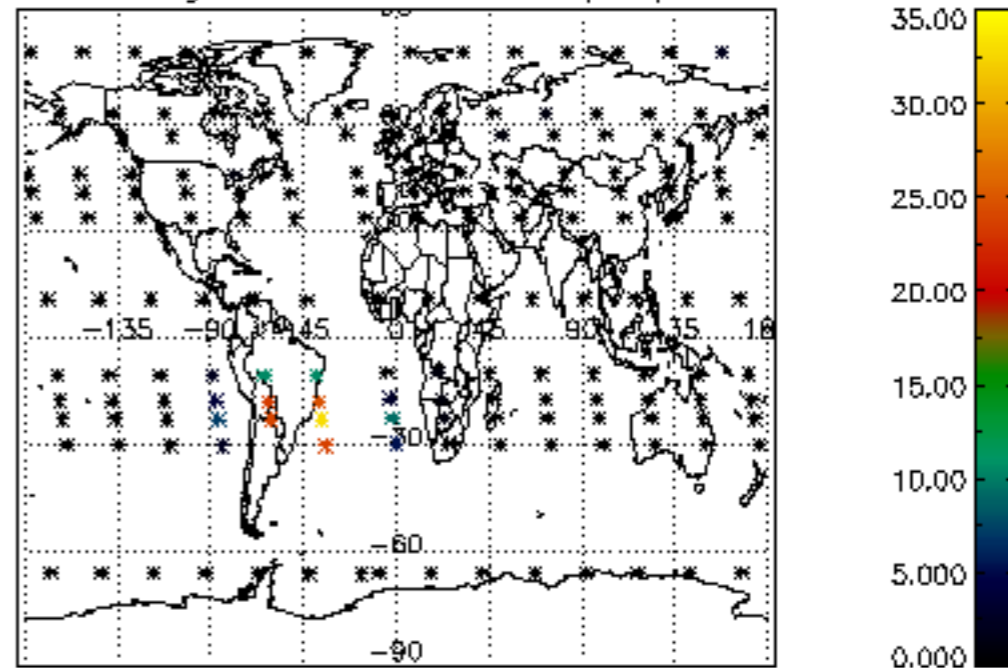
Percentage of datation errors per profile



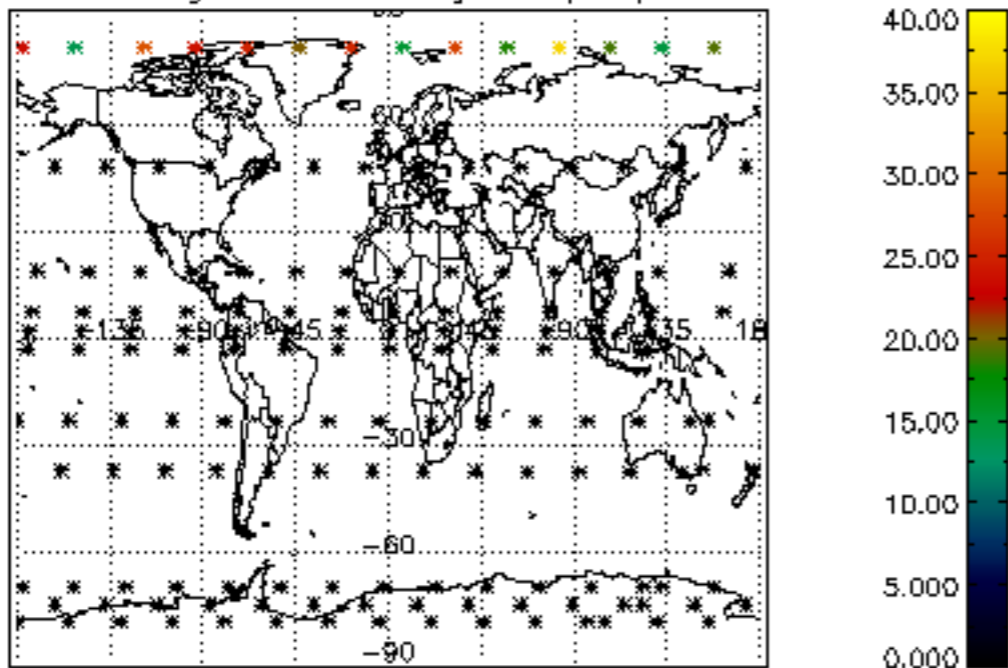
Percentage of star falling outside central band per profile



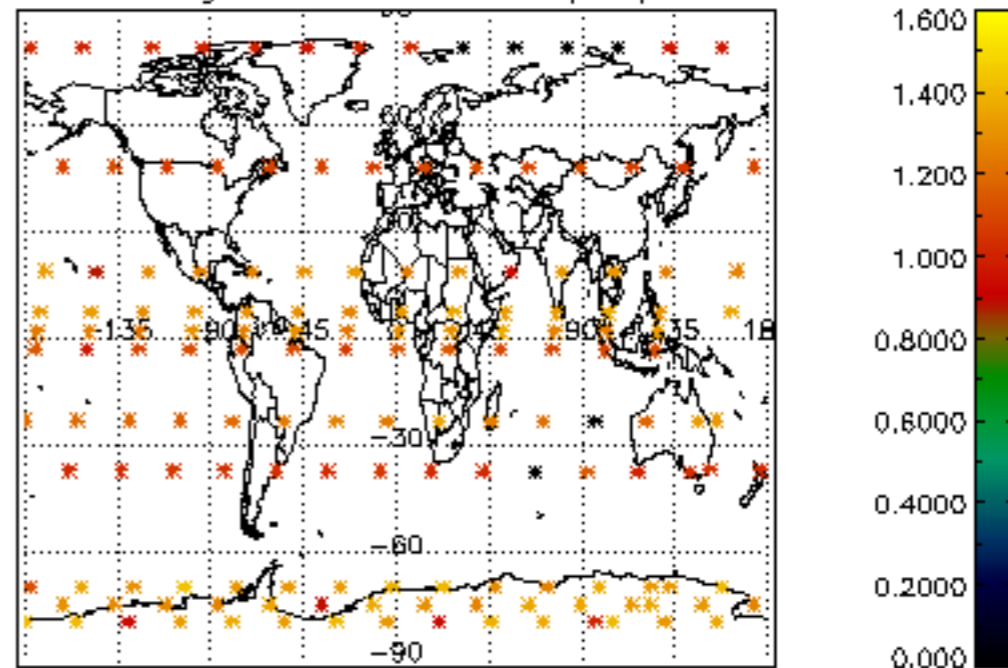
Percentage of saturation errors per profile



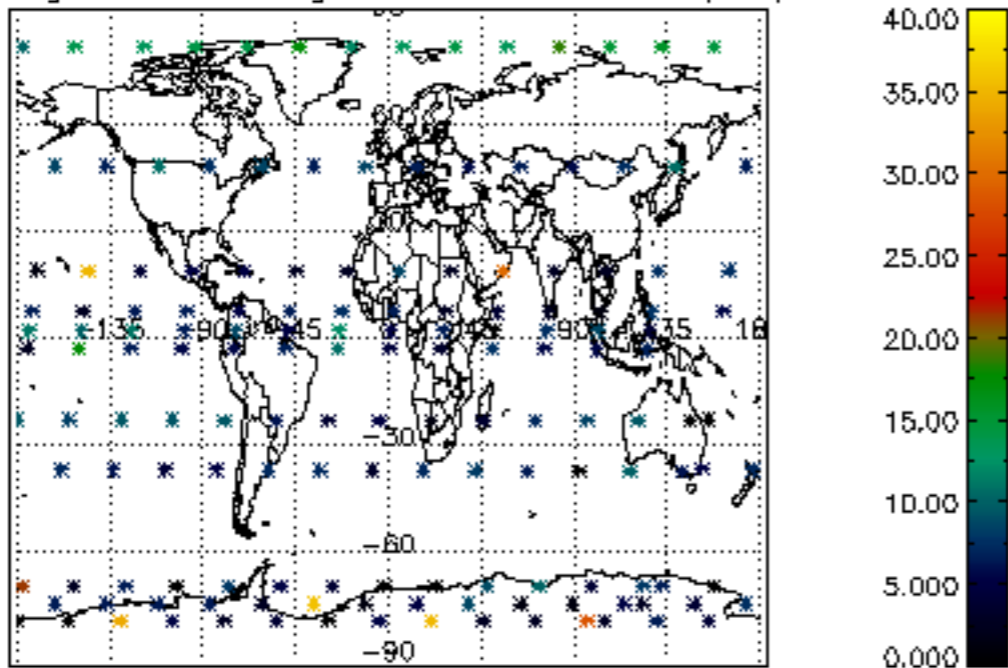
Percentage of cosmic ray hits per profile



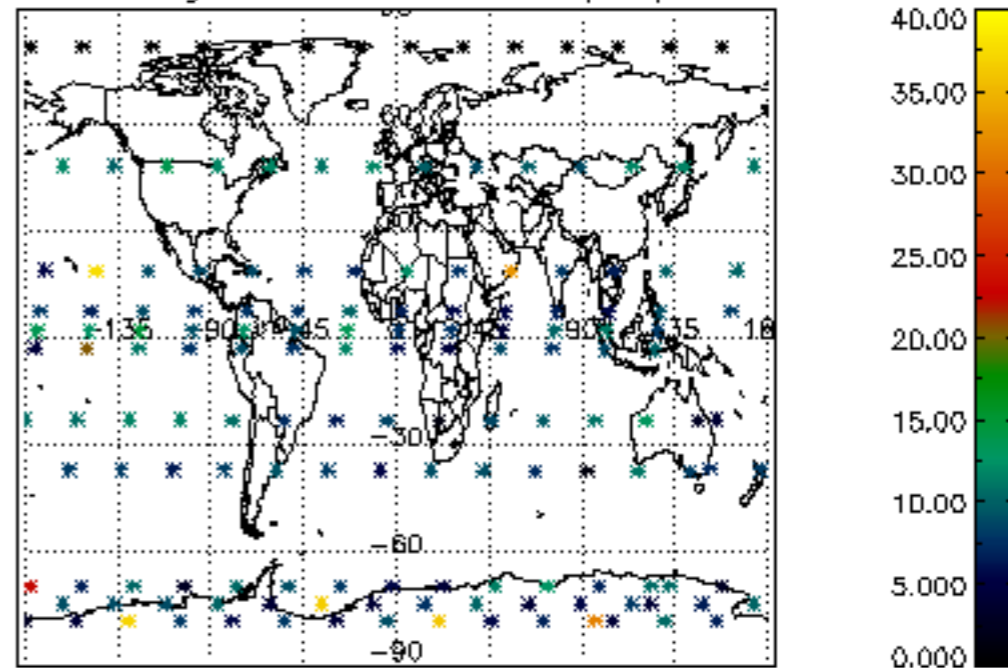
Percentage of datation errors per profile

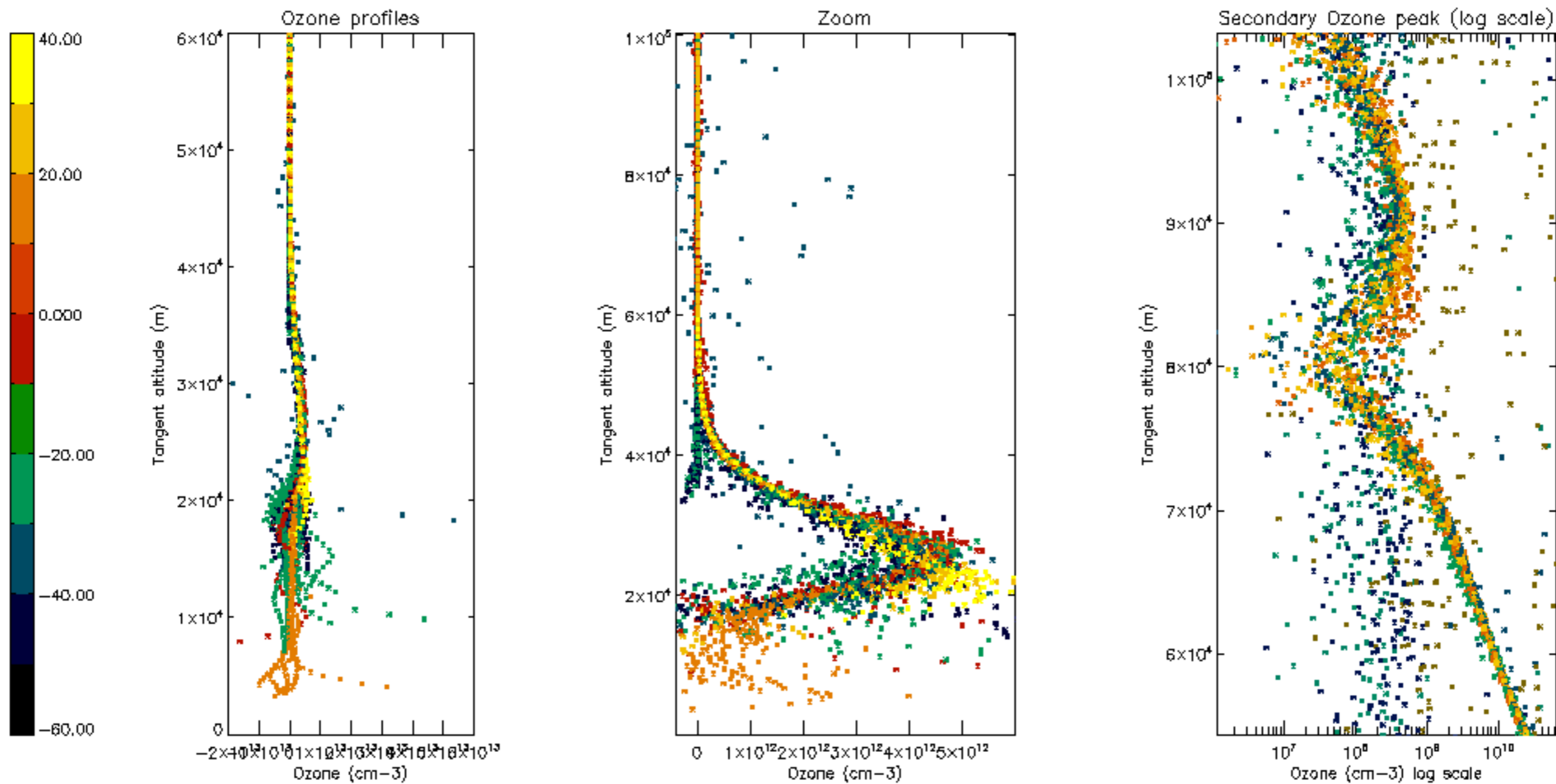


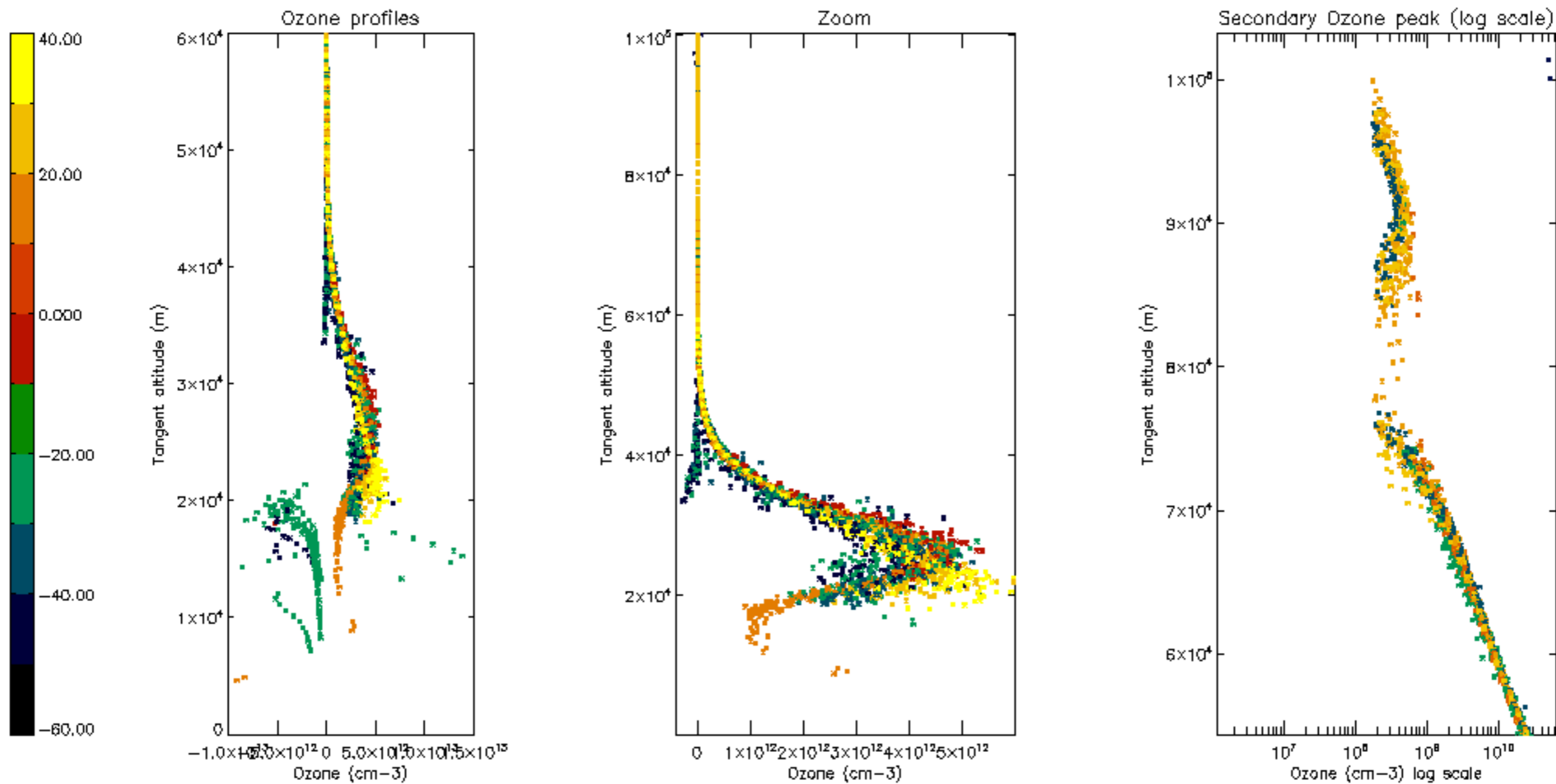
Percentage of star falling outside central band per profile

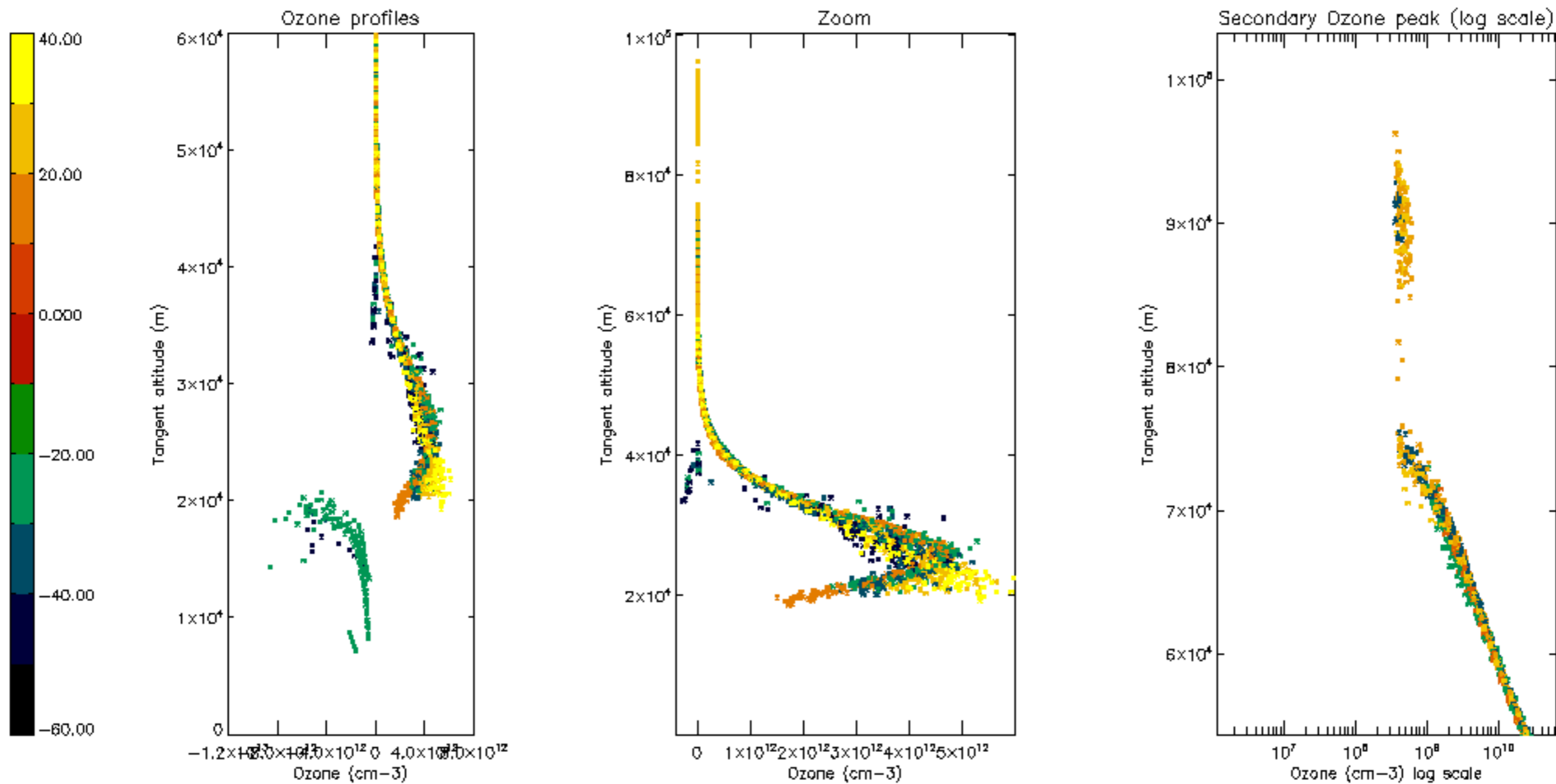


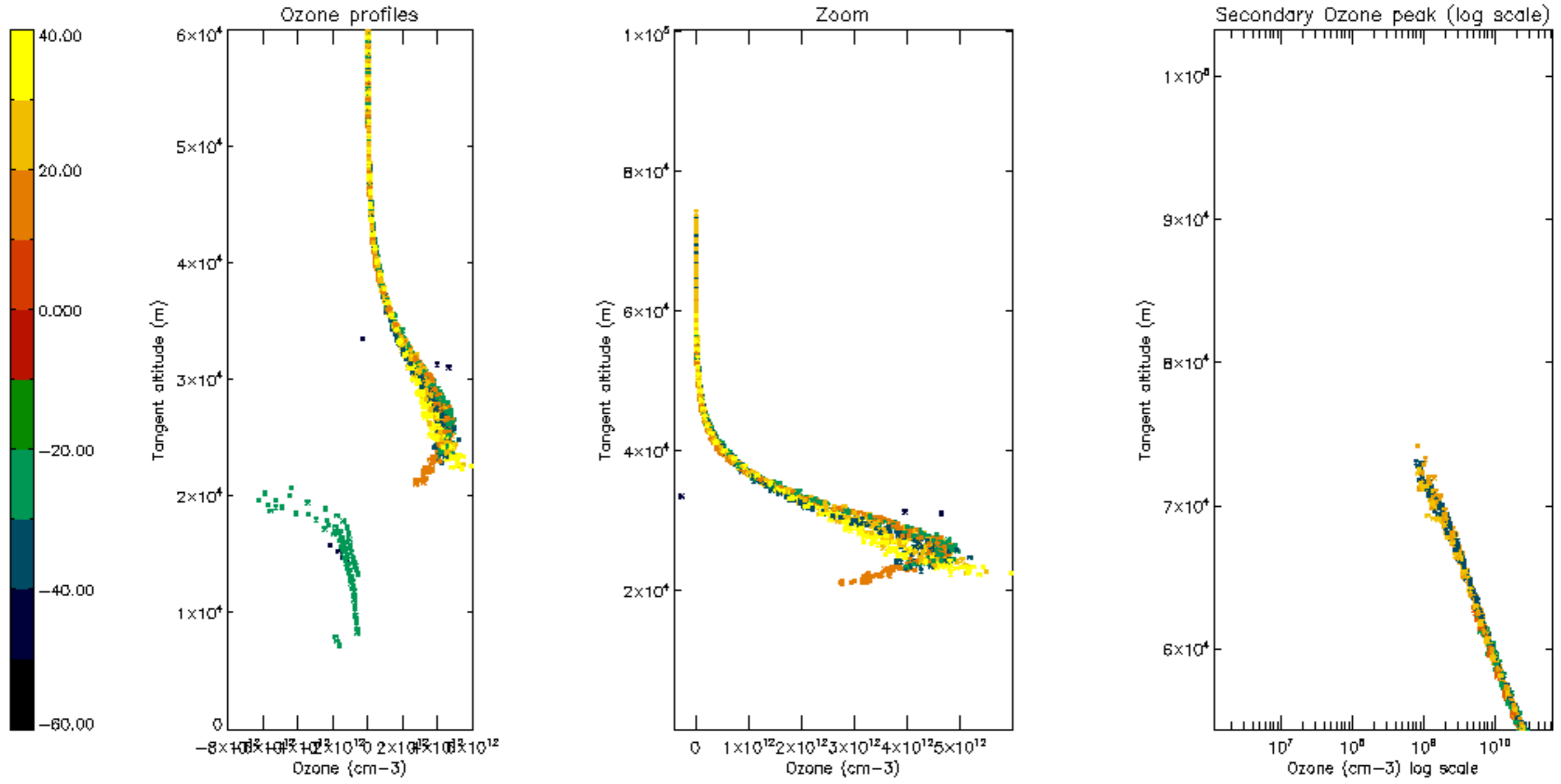
Percentage of saturation errors per profile

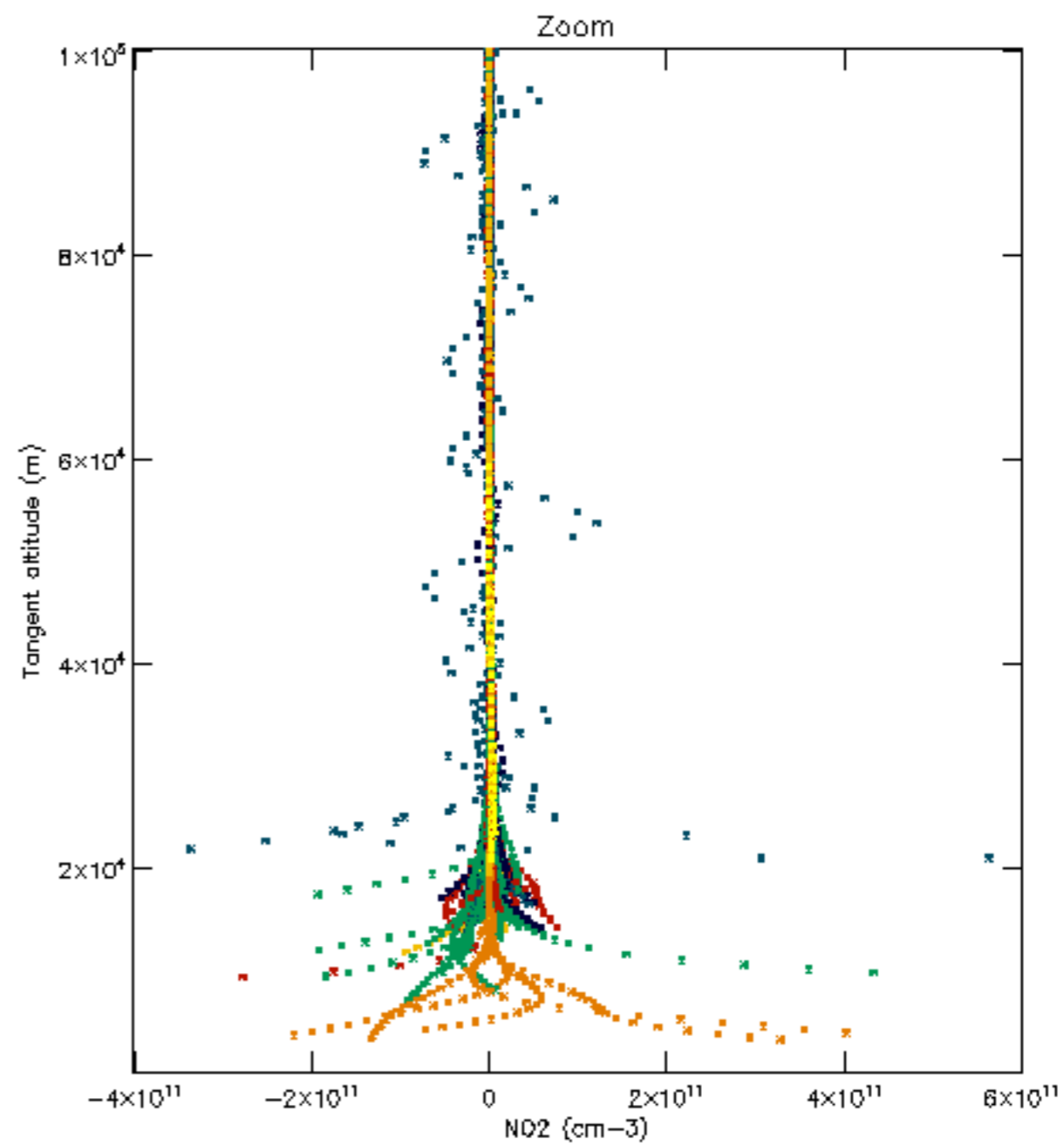
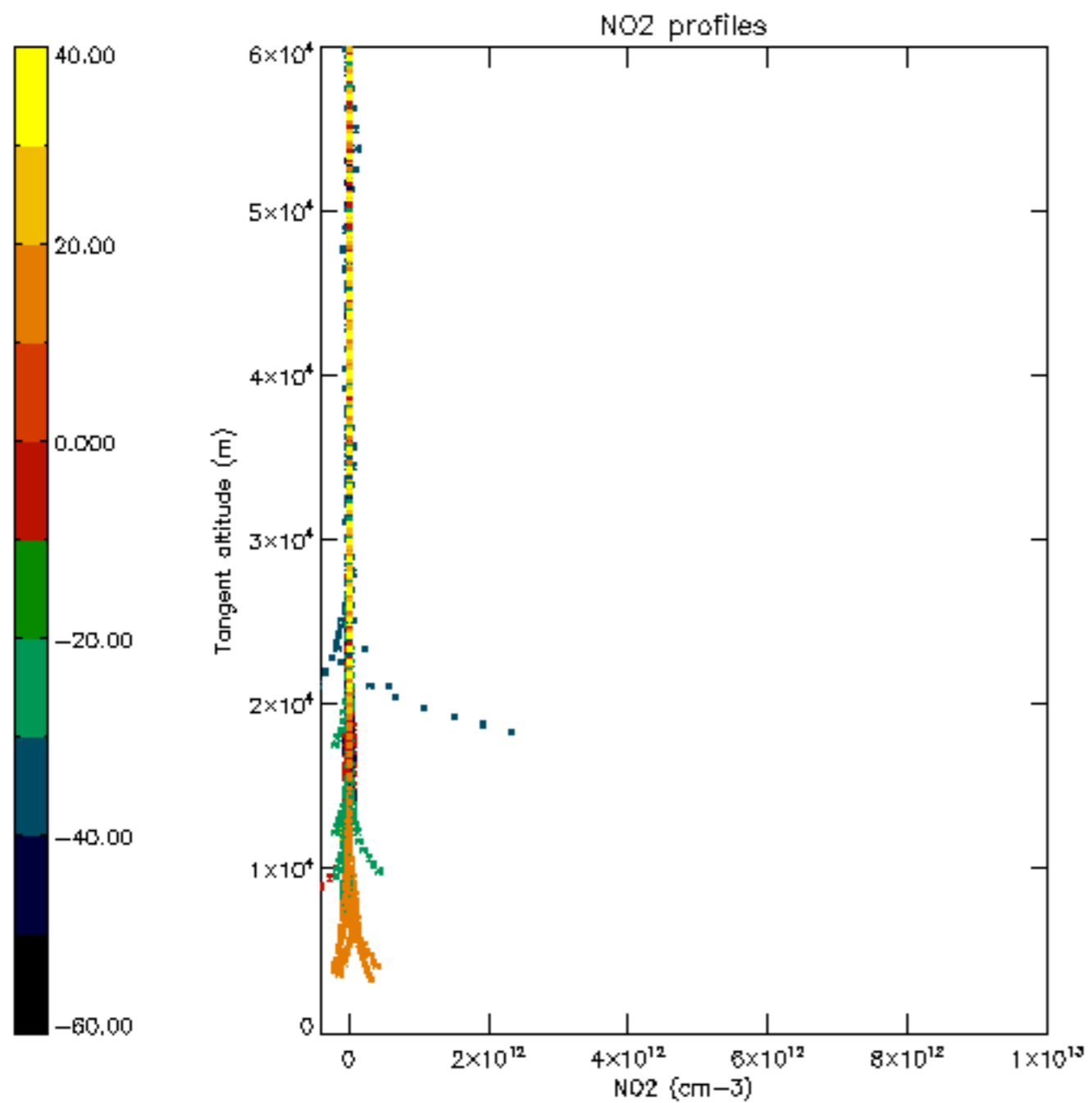


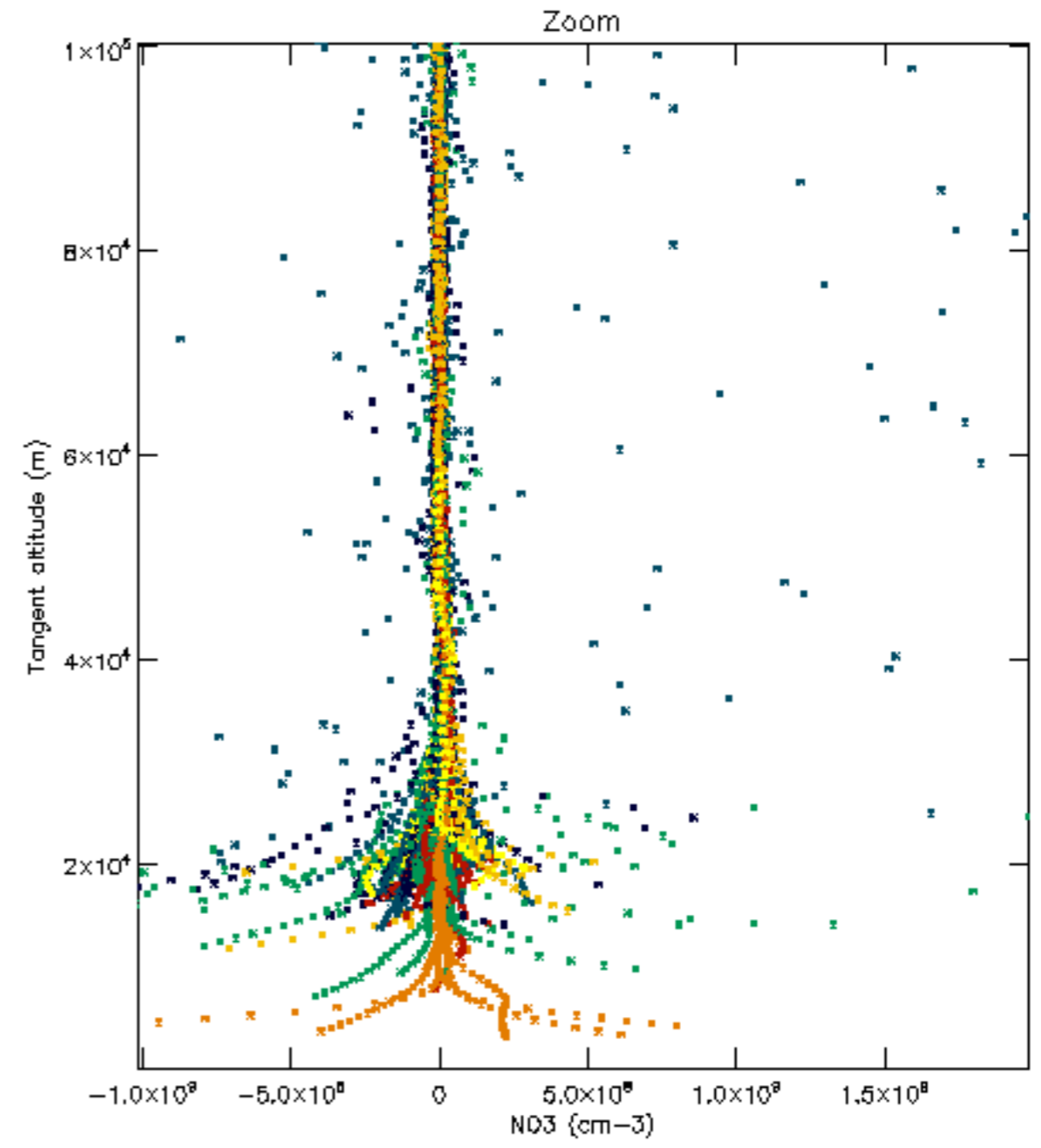
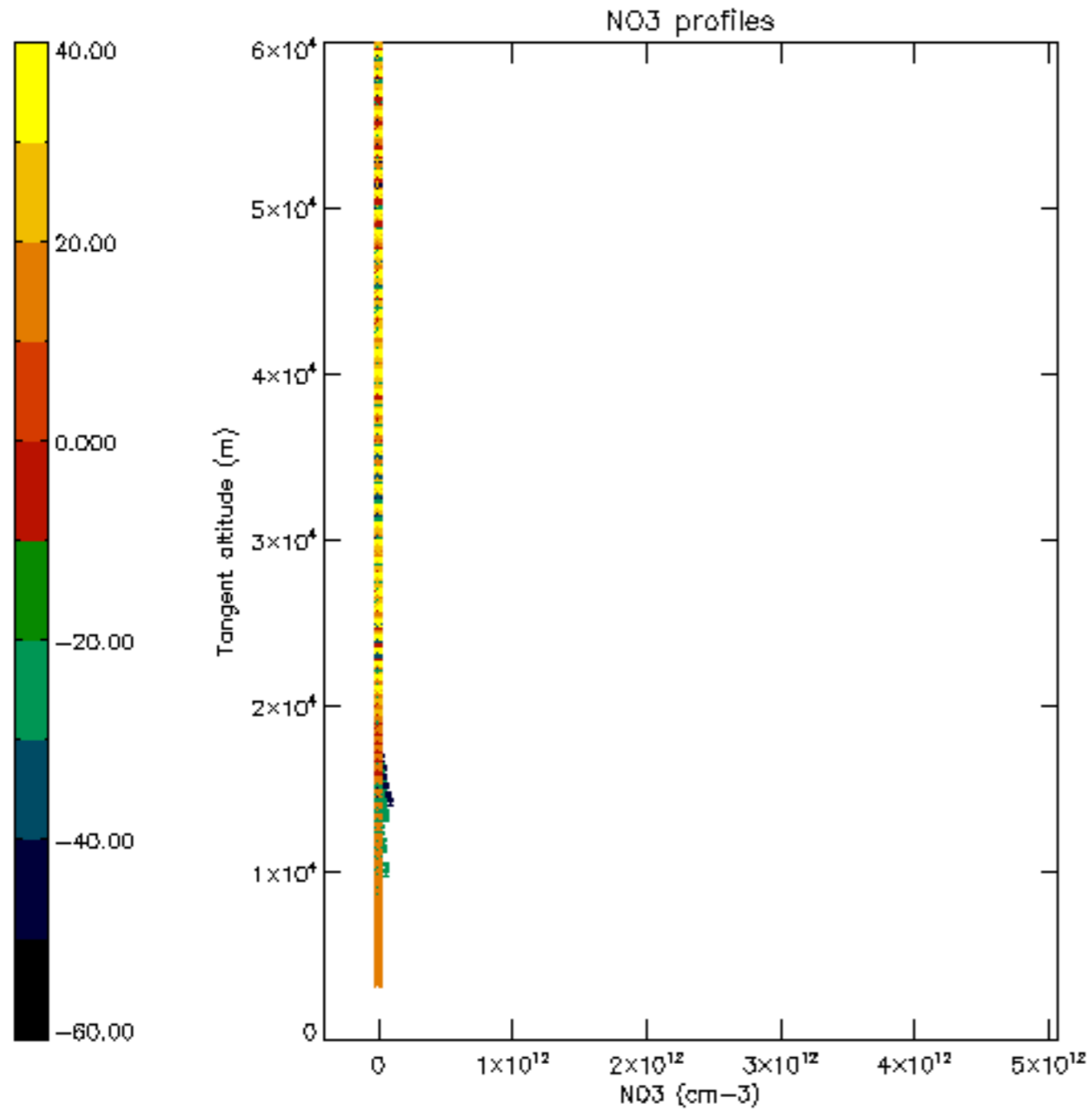


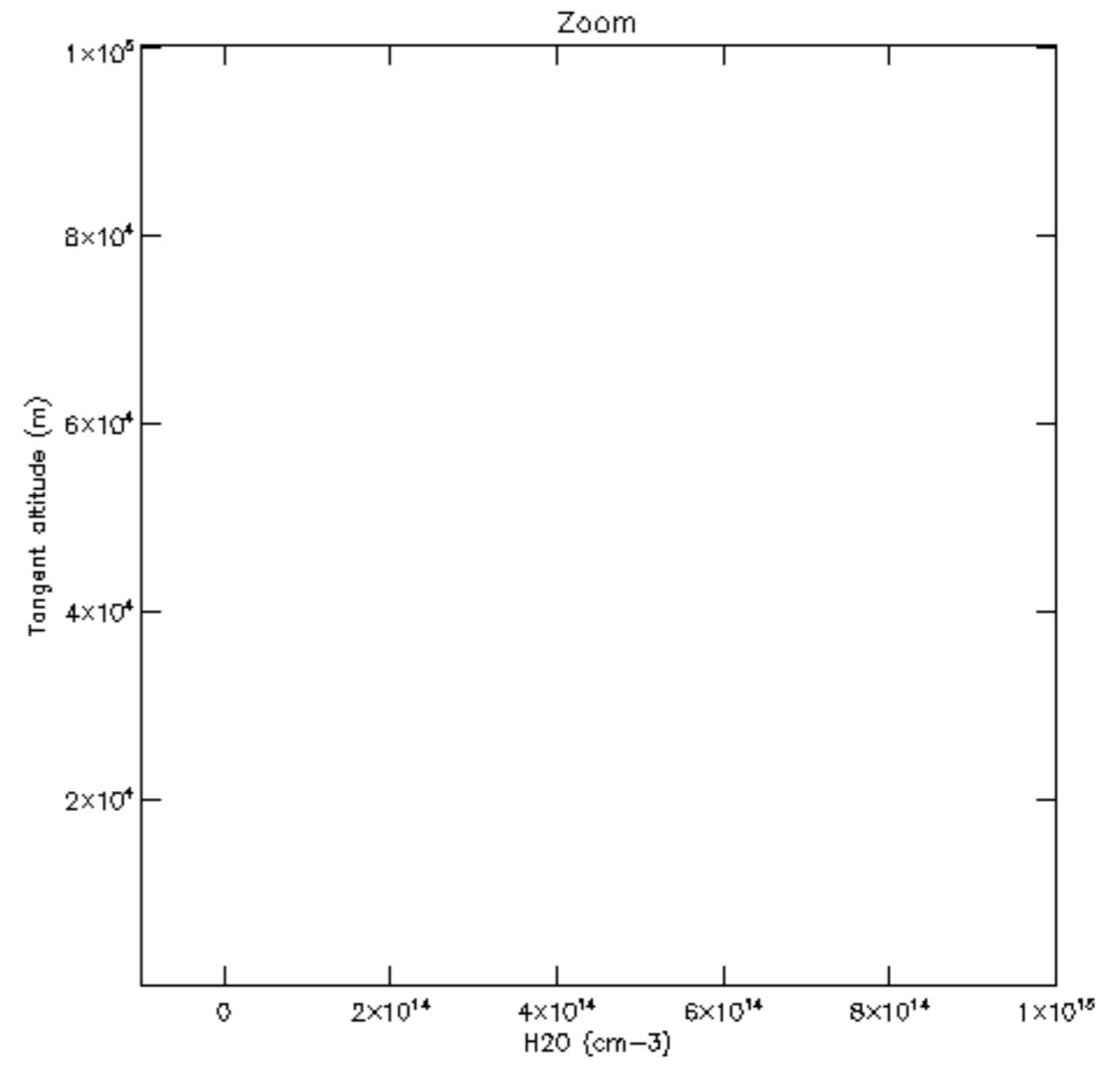
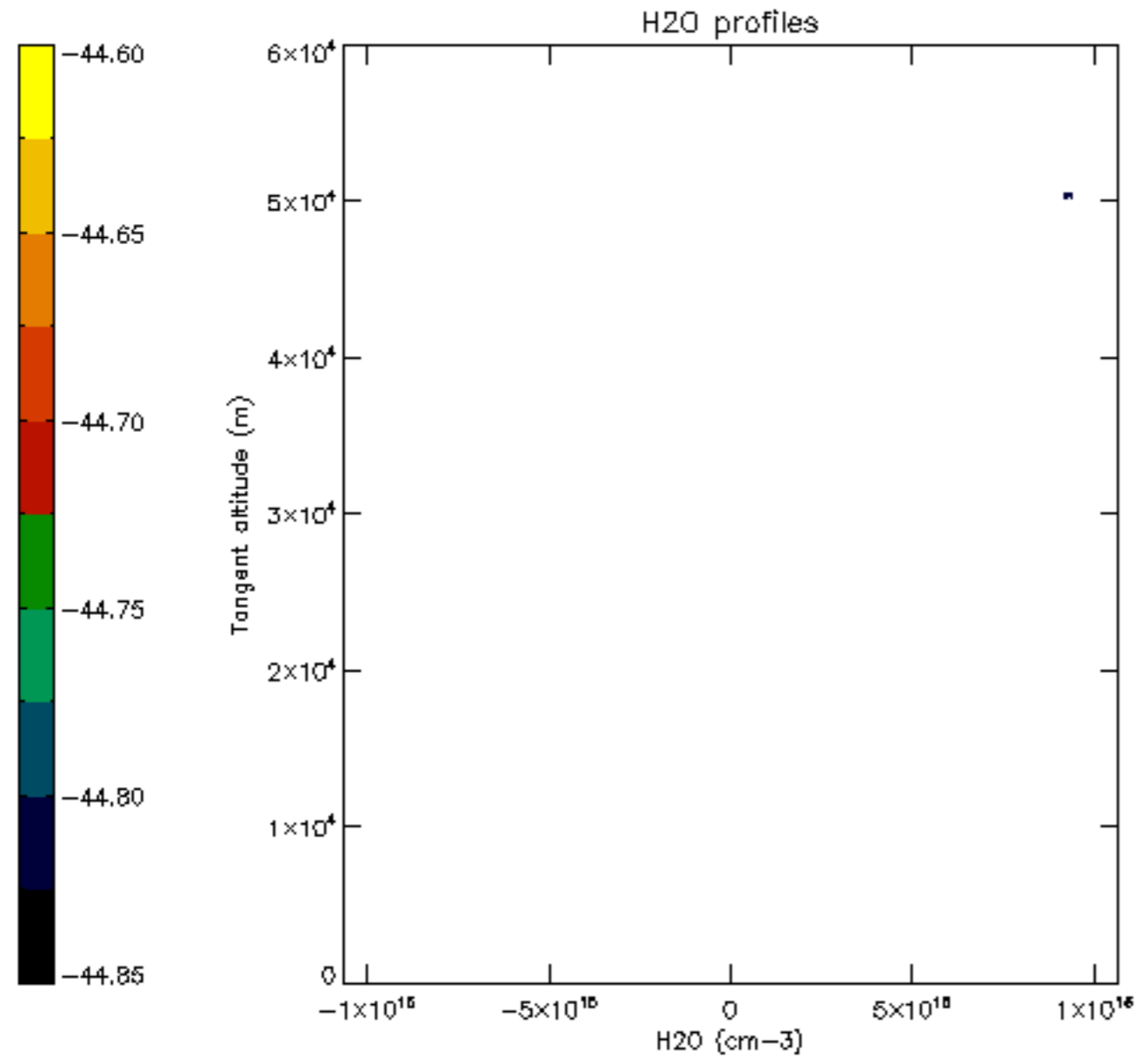


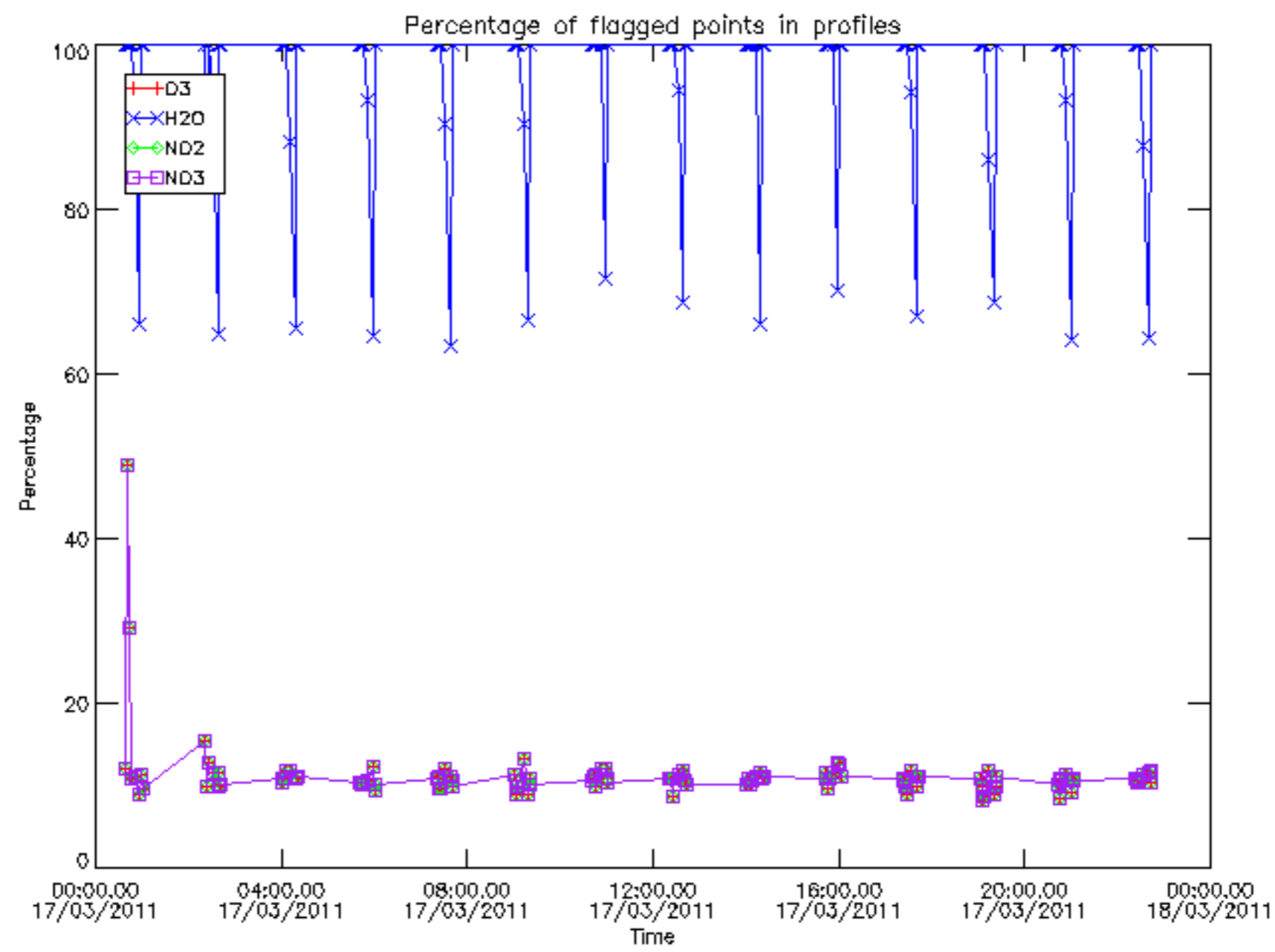




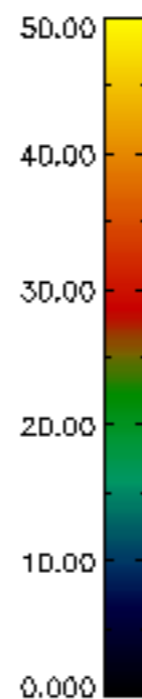
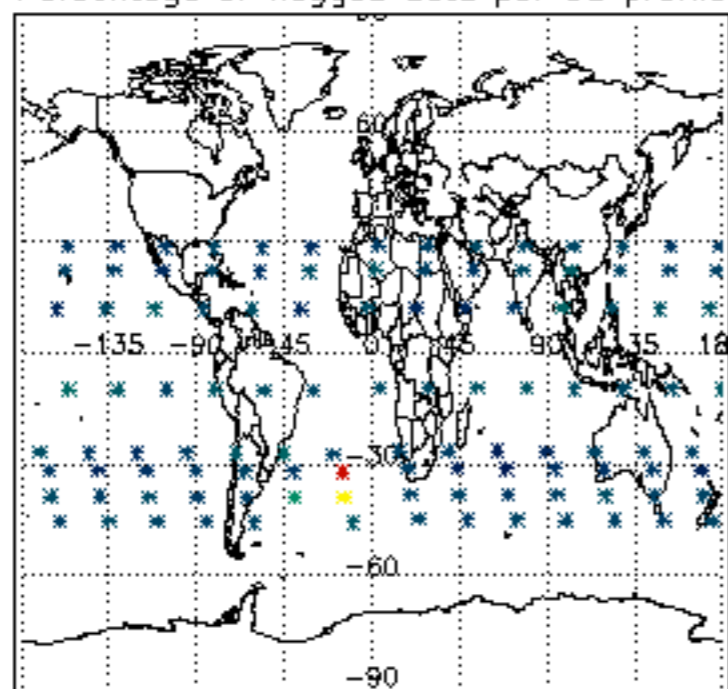




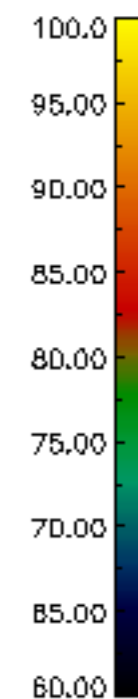
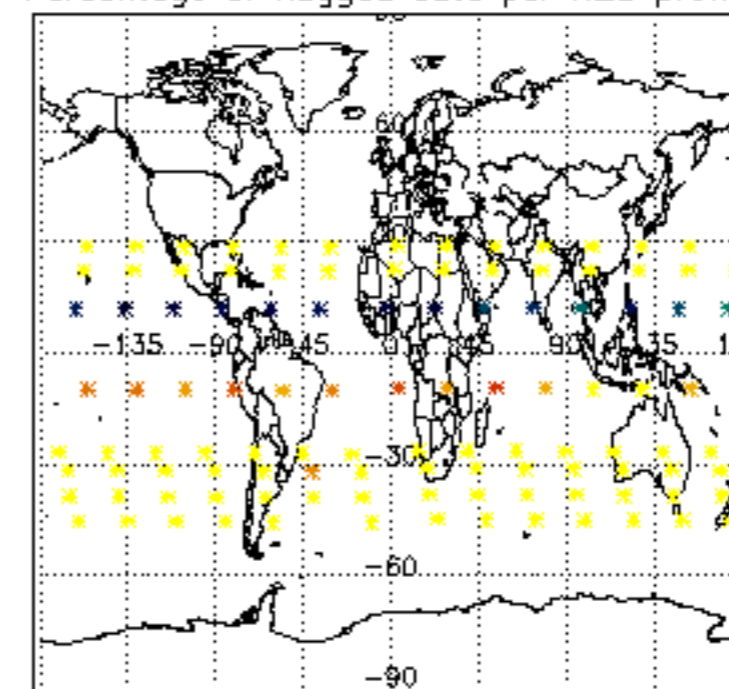




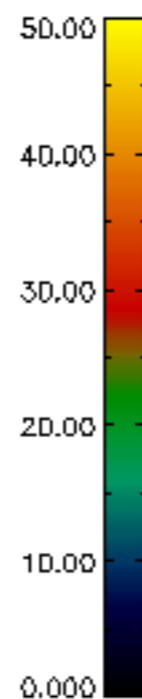
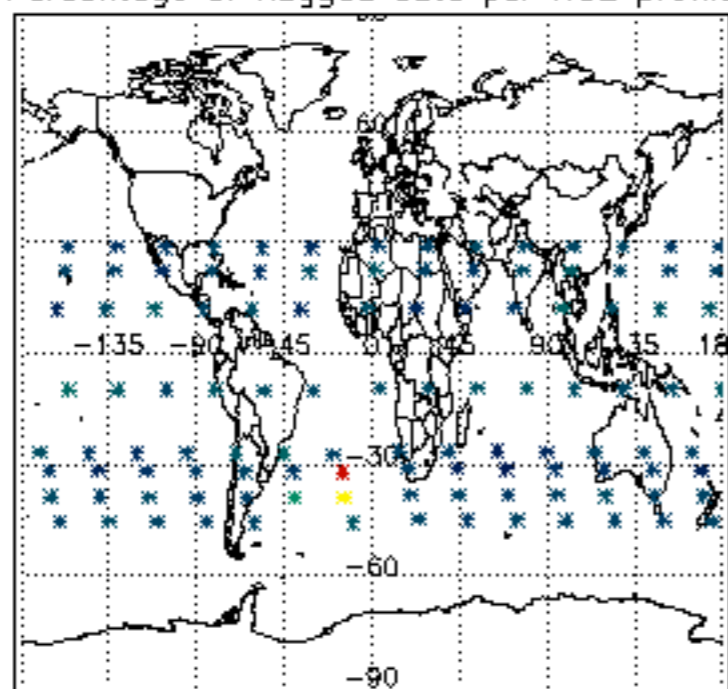
Percentage of flagged data per D3 profile



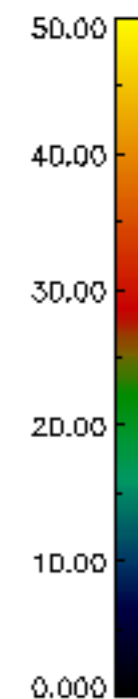
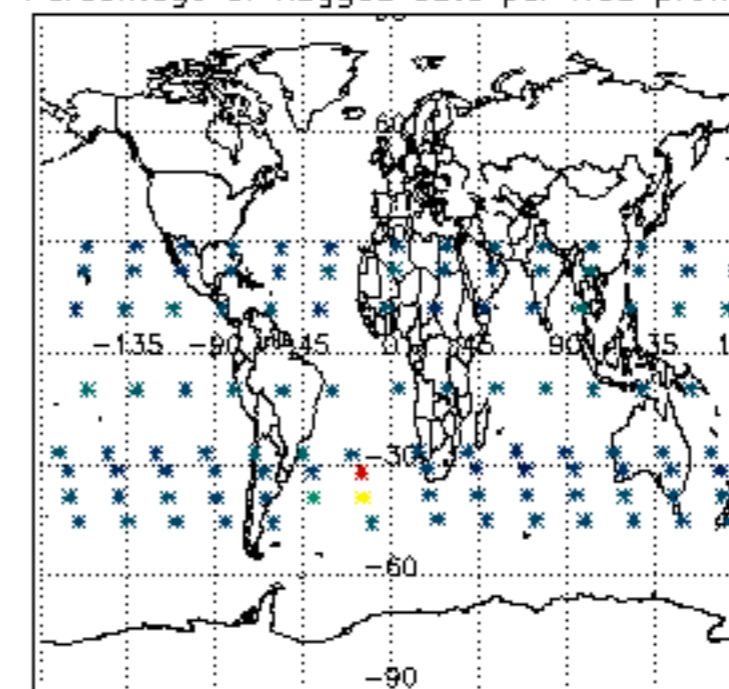
Percentage of flagged data per H2O profile

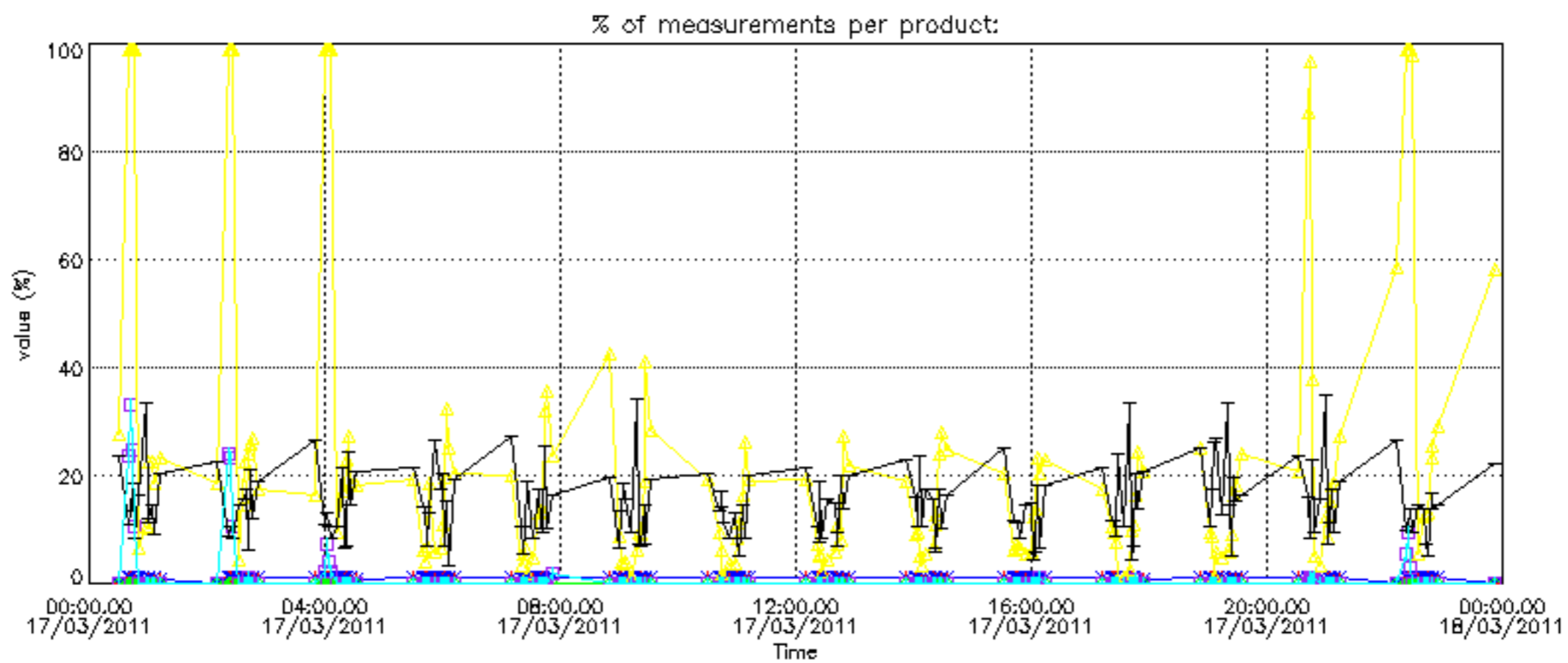


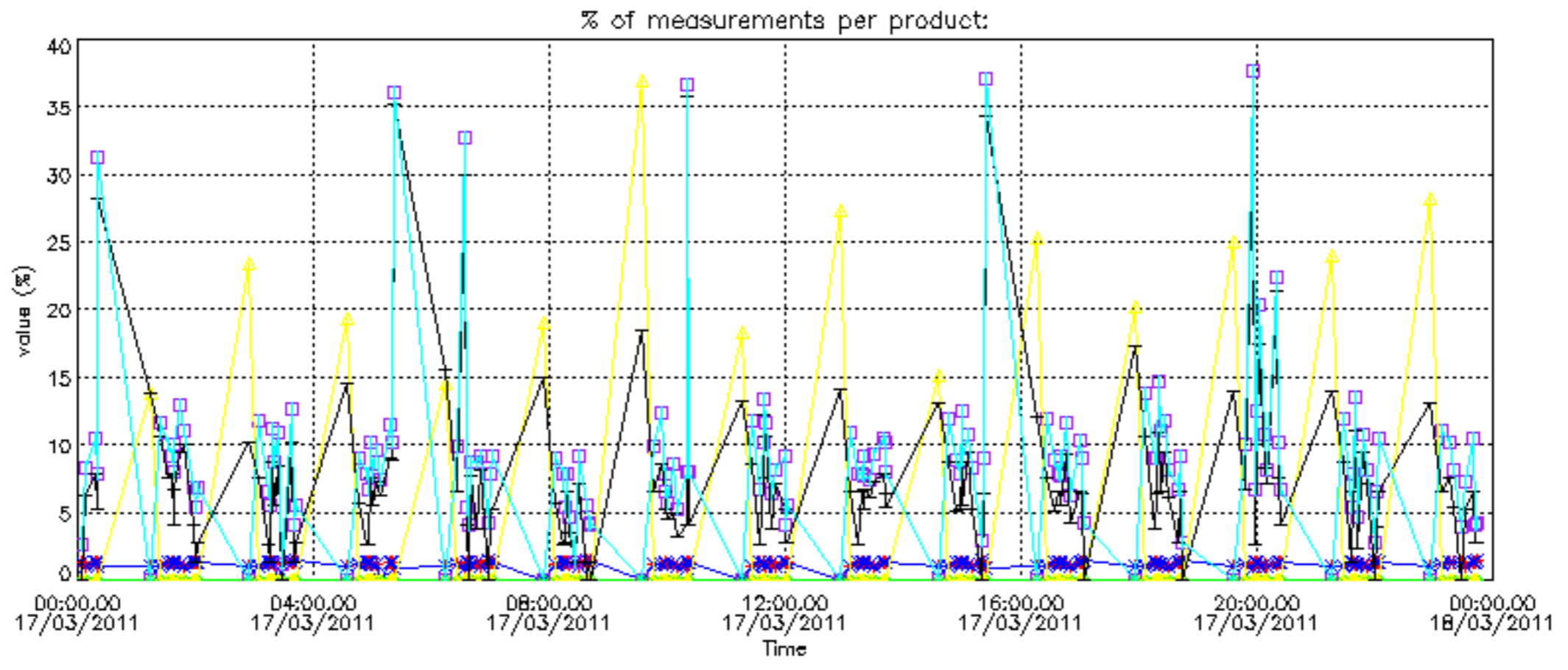
Percentage of flagged data per NO2 profile



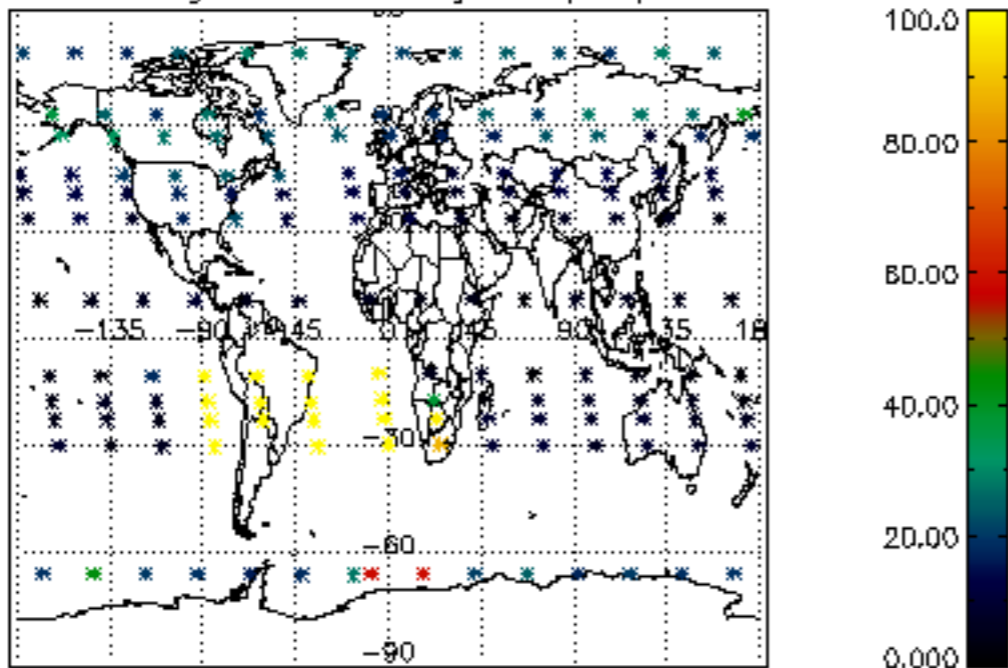
Percentage of flagged data per NO3 profile



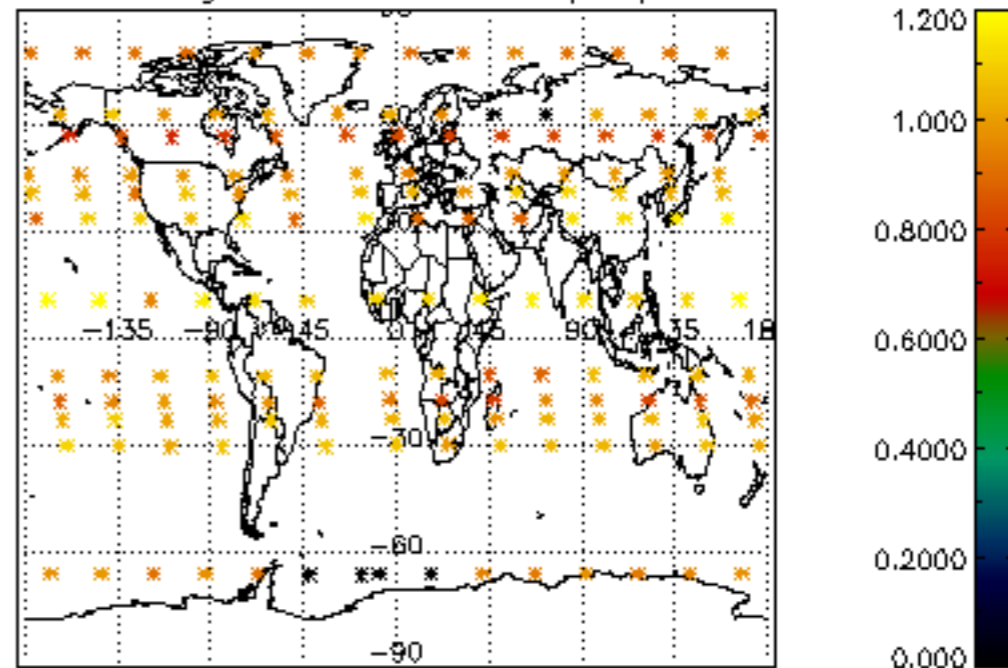




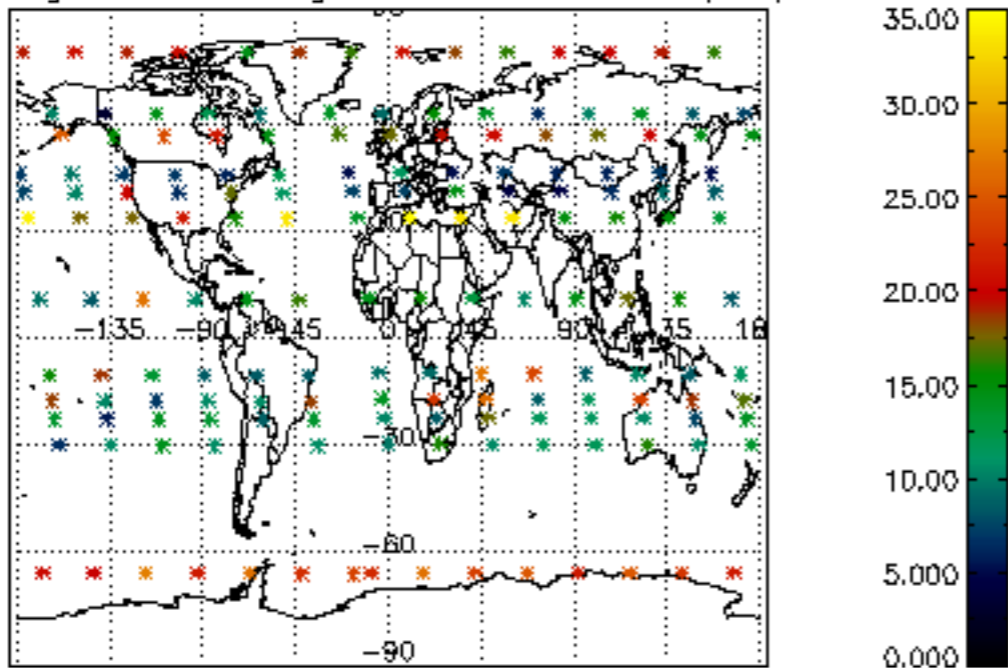
Percentage of cosmic ray hits per profile



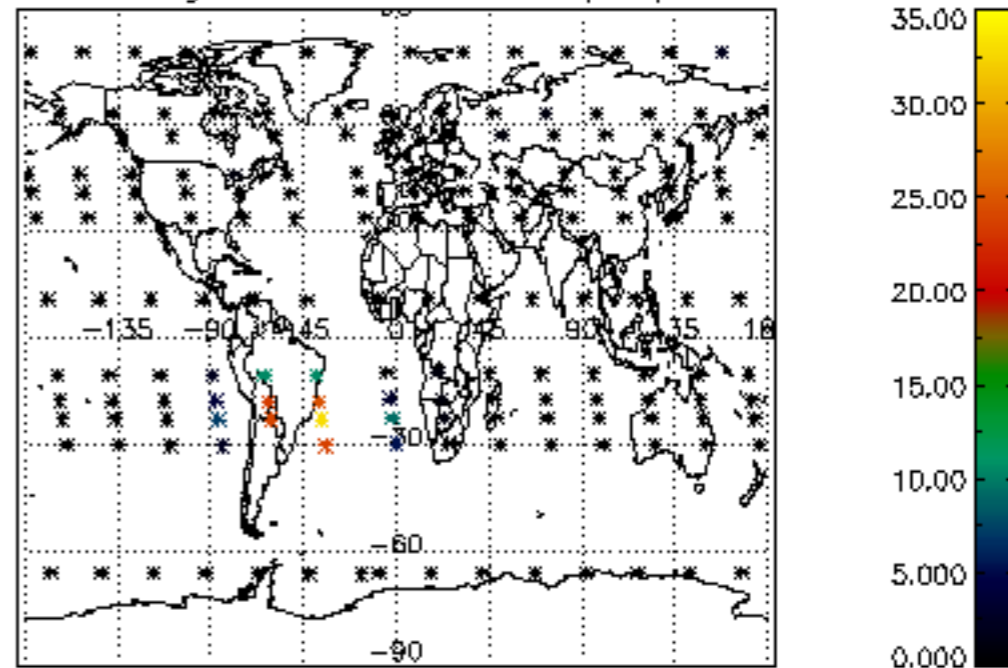
Percentage of datation errors per profile



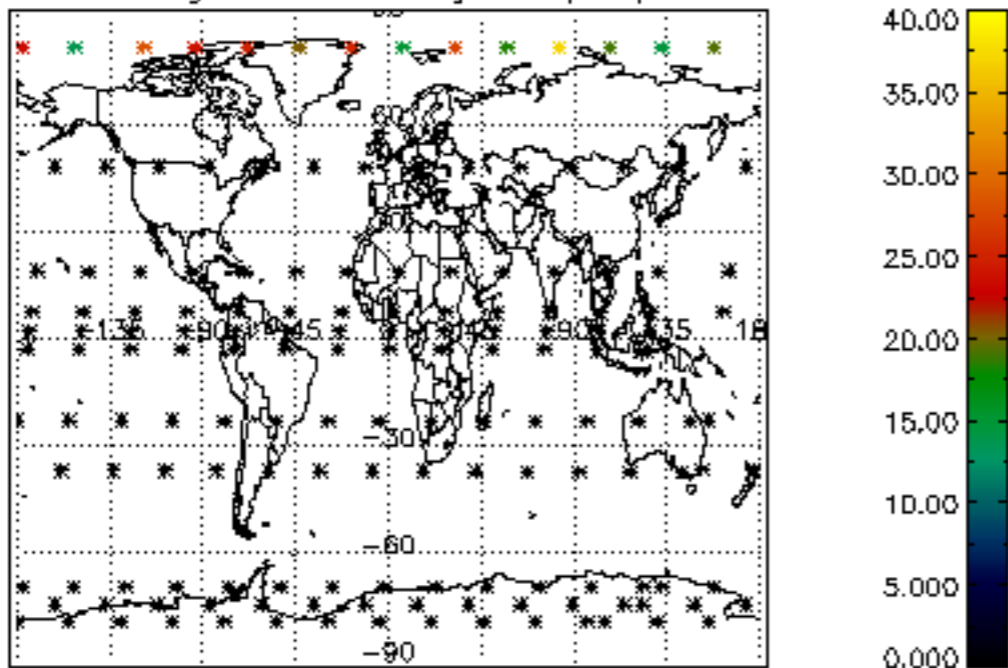
Percentage of star falling outside central band per profile



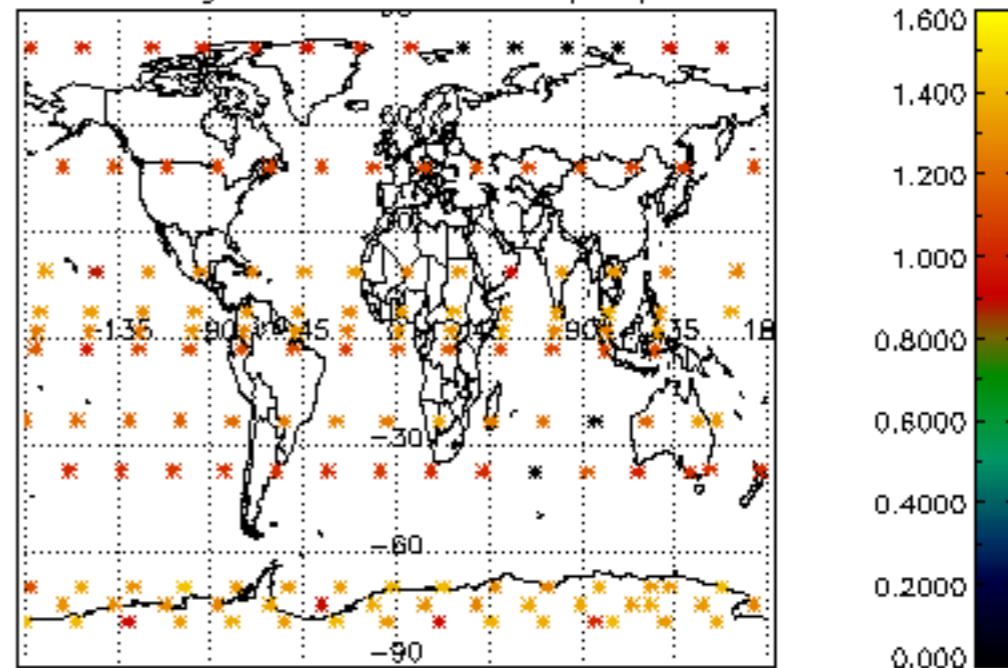
Percentage of saturation errors per profile



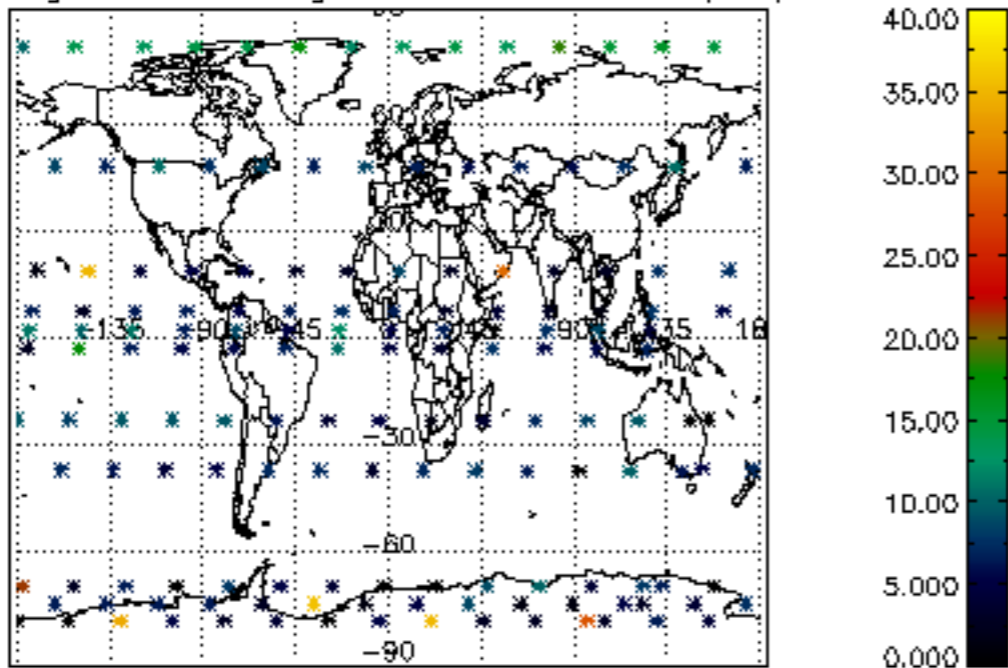
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

