

# 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	29APR2013 11:18:26
Data source version	GOMOS/6.01
Start time of products	29-05-2010 (29MAY2010 00:00:00)
Stop time of products	30-05-2010 (30MAY2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	324
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__2PRFIN20100529_000037_000000492089_00460_43099_2095.N1	29-MAY-2010 00:00:37	Bright	48.500	86	35Eta Oph	2.4300	10200.	97	43099	No
2	GOM_NL__2PRFIN20100529_000232_000000442089_00460_43099_2096.N1	29-MAY-2010 00:02:32	Bright	43.500	98	13Zet Oph	2.5710	30000.	87	43099	No
3	GOM_NL__2PRFIN20100529_000446_000000412089_00460_43099_2097.N1	29-MAY-2010 00:04:46	Bright	41.000	120	1Del Oph	2.7340	3200.0	82	43099	No
4	GOM_NL__2PRFIN20100529_000747_000000382089_00460_43099_2098.N1	29-MAY-2010 00:07:47	Bright	38.000	102	24Alp Ser	2.6000	4250.0	76	43099	No
5	GOM_NL__2PRFIN20100529_001346_000000382089_00460_43099_2099.N1	29-MAY-2010 00:13:46	Bright	37.500	67	5Alp CrB	2.2210	11000.	75	43099	No
6	GOM_NL__2PRFIN20100529_001644_000000452089_00460_43099_2100.N1	29-MAY-2010 00:16:44	Bright	44.500	133	40Zet Her	2.8070	6000.0	89	43099	No
7	GOM_NL__2PRFIN20100529_002429_000000542089_00460_43099_2101.N1	29-MAY-2010 00:24:29	Bright	54.000	119	14Eta Dra	2.7270	4700.0	108	43099	No
8	GOM_NL__2PRFIN20100529_003506_000000492089_00460_43099_2102.N1	29-MAY-2010 00:35:06	Bright	49.000	89	5Alp Cep	2.4510	8000.0	98	43099	No
9	GOM_NL__2PRFIN20100529_003943_000000372089_00460_43099_2103.N1	29-MAY-2010 00:39:43	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	43099	No
10	GOM_NL__2PRFIN20100529_004719_000000552089_00460_43099_2104.N1	29-MAY-2010 00:47:19	Bright	55.000	53	43Bet And	2.0480	3300.0	110	43099	No
11	GOM_NL__2PRFIN20100529_004957_000000512089_00460_43099_2105.N1	29-MAY-2010 00:49:57	Twilight	51.000	58	21Alp And	2.0730	11000.	102	43099	No
12	GOM_NL__2PRFIN20100529_005441_000000482089_00460_43099_2106.N1	29-MAY-2010 00:54:41	Dark	47.500	140	88Gam Peg	2.8340	26000.	95	43099	No
13	GOM_NL__2PRFIN20100529_010336_000000472089_00460_43099_2107.N1	29-MAY-2010 01:03:36	Dark	46.500	52	16Bet Cet	2.0370	4500.0	93	43099	No
14	GOM_NL__2PRFIN20100529_011149_000000582089_00460_43099_2108.N1	29-MAY-2010 01:11:49	Dark	57.500	18	24Alp PsA	1.1660	9700.0	115	43099	No
15	GOM_NL__2PRFIN20100529_011525_000000592089_00461_43100_2095.N1	29-MAY-2010 01:15:25	Dark	59.000	63	Bet Gru	2.1500	2800.0	118	43100	No
16	GOM_NL__2PRFIN20100529_011714_000000462089_00461_43100_2096.N1	29-MAY-2010 01:17:14	Dark	46.000	31	Alp Gru	1.7340	15200.	92	43100	No
17	GOM_NL__2PRFIN20100529_012223_000000432089_00461_43100_2097.N1	29-MAY-2010 01:22:23	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	43100	No
18	GOM_NL__2PRFIN20100529_013001_000000422089_00461_43100_2098.N1	29-MAY-2010 01:30:01	Straylight	41.500	147	Alp Ara	2.8770	26000.	83	43100	No
19	GOM_NL__2PRFIN20100529_013141_000000492089_00461_43100_2099.N1	29-MAY-2010 01:31:41	Straylight	49.000	40	The Sco	1.8590	7100.0	98	43100	No
20	GOM_NL__2PRFIN20100529_013330_000000482089_00461_43100_2100.N1	29-MAY-2010 01:33:30	Twilight	48.000	25	35Lam Sco	1.6200	28000.	96	43100	No
21	GOM_NL__2PRFIN20100529_013522_000000482089_00461_43100_2101.N1	29-MAY-2010 01:35:22	Twilight	47.500	75	26Eps Sco	2.2910	4250.0	95	43100	No
22	GOM_NL__2PRFIN20100529_013727_000000452089_00461_43100_2102.N1	29-MAY-2010 01:37:27	Twilight	45.000	136	23Tau Sco	2.8220	30000.	90	43100	No
23	GOM_NL__2PRFIN20100529_013936_000000392089_00461_43100_2103.N1	29-MAY-2010 01:39:36	Bright	38.500	80	7Del Sco	2.3160	30000.	77	43100	No
24	GOM_NL__2PRFIN20100529_014113_000000492089_00461_43100_2104.N1	29-MAY-2010 01:41:13	Bright	49.000	86	35Eta Oph	2.4300	10200.	98	43100	No
25	GOM_NL__2PRFIN20100529_014307_000000442089_00461_43100_2105.N1	29-MAY-2010 01:43:07	Bright	43.500	98	13Zet Oph	2.5710	30000.	87	43100	No
26	GOM_NL__2PRFIN20100529_014521_000000412089_00461_43100_2106.N1	29-MAY-2010 01:45:21	Bright	41.000	120	1Del Oph	2.7340	3200.0	82	43100	No
27	GOM_NL__2PRFIN20100529_014823_000000382089_00461_43100_2107.N1	29-MAY-2010 01:48:23	Bright	38.000	102	24Alp Ser	2.6000	4250.0	76	43100	No
28	GOM_NL__2PRFIN20100529_015421_000000552089_00461_43100_2108.N1	29-MAY-2010 01:54:21	Bright	55.000	67	5Alp CrB	2.2210	11000.	110	43100	No
29	GOM_NL__2PRFIN20100529_015719_000000462089_00461_43100_2109.N1	29-MAY-2010 01:57:19	Bright	46.000	133	40Zet Her	2.8070	6000.0	92	43100	No
30	GOM_NL__2PRFIN20100529_020505_000000362089_00461_43100_2110.N1	29-MAY-2010 02:05:05	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	43100	No
31	GOM_NL__2PRFIN20100529_021541_000000482089_00461_43100_2111.N1	29-MAY-2010 02:15:41	Bright	48.000	89	5Alp Cep	2.4510	8000.0	96	43100	No
32	GOM_NL__2PRFIN20100529_022018_000000552089_00461_43100_2112.N1	29-MAY-2010 02:20:18	Bright	55.000	76	27Gam Cas	2.3000	30000.	110	43100	No
33	GOM_NL__2PRFIN20100529_022755_000000562089_00461_43100_2113.N1	29-MAY-2010 02:27:55	Bright	56.000	53	43Bet And	2.0480	3300.0	112	43100	No
34	GOM_NL__2PRFIN20100529_023033_000000532089_00461_43100_2114.N1	29-MAY-2010 02:30:33	Twilight	52.500	58	21Alp And	2.0730	11000.	105	43100	No
35	GOM_NL__2PRFIN20100529_023517_000000472089_00461_43100_2115.N1	29-MAY-2010 02:35:17	Dark	47.000	140	88Gam Peg	2.8340	26000.	94	43100	No
36	GOM_NL__2PRFIN20100529_024412_000000462089_00461_43100_2116.N1	29-MAY-2010 02:44:12	Dark	46.000	52	16Bet Cet	2.0370	4500.0	92	43100	No
37	GOM_NL__2PRFIN20100529_025226_000000542089_00461_43100_2117.N1	29-MAY-2010 02:52:26	Dark	53.500	18	24Alp PsA	1.1660	9700.0	107	43100	No
38	GOM_NL__2PRFIN20100529_025750_000000452089_00462_43101_2103.N1	29-MAY-2010 02:57:50	Dark	44.500	31	Alp Gru	1.7340	15200.	89	43101	No
39	GOM_NL__2PRFIN20100529_030259_000000452089_00462_43101_2104.N1	29-MAY-2010 03:02:59	Straylight	44.500	45	Alp Pav	1.9400	26000.	89	43101	No
40	GOM_NL__2PRFIN20100529_031038_000000442089_00462_43101_2105.N1	29-MAY-2010 03:10:38	Straylight	44.000	147	Alp Ara	2.8770	26000.	88	43101	No
41	GOM_NL__2PRFIN20100529_031218_000000472089_00462_43101_2106.N1	29-MAY-2010 03:12:18	Straylight	47.000	40	The Sco	1.8590	7100.0	94	43101	No
42	GOM_NL__2PRFIN20100529_031407_000000512089_00462_43101_2107.N1	29-MAY-2010 03:14:07	Twilight	50.500	25	35Lam Sco	1.6200	28000.	101	43101	No







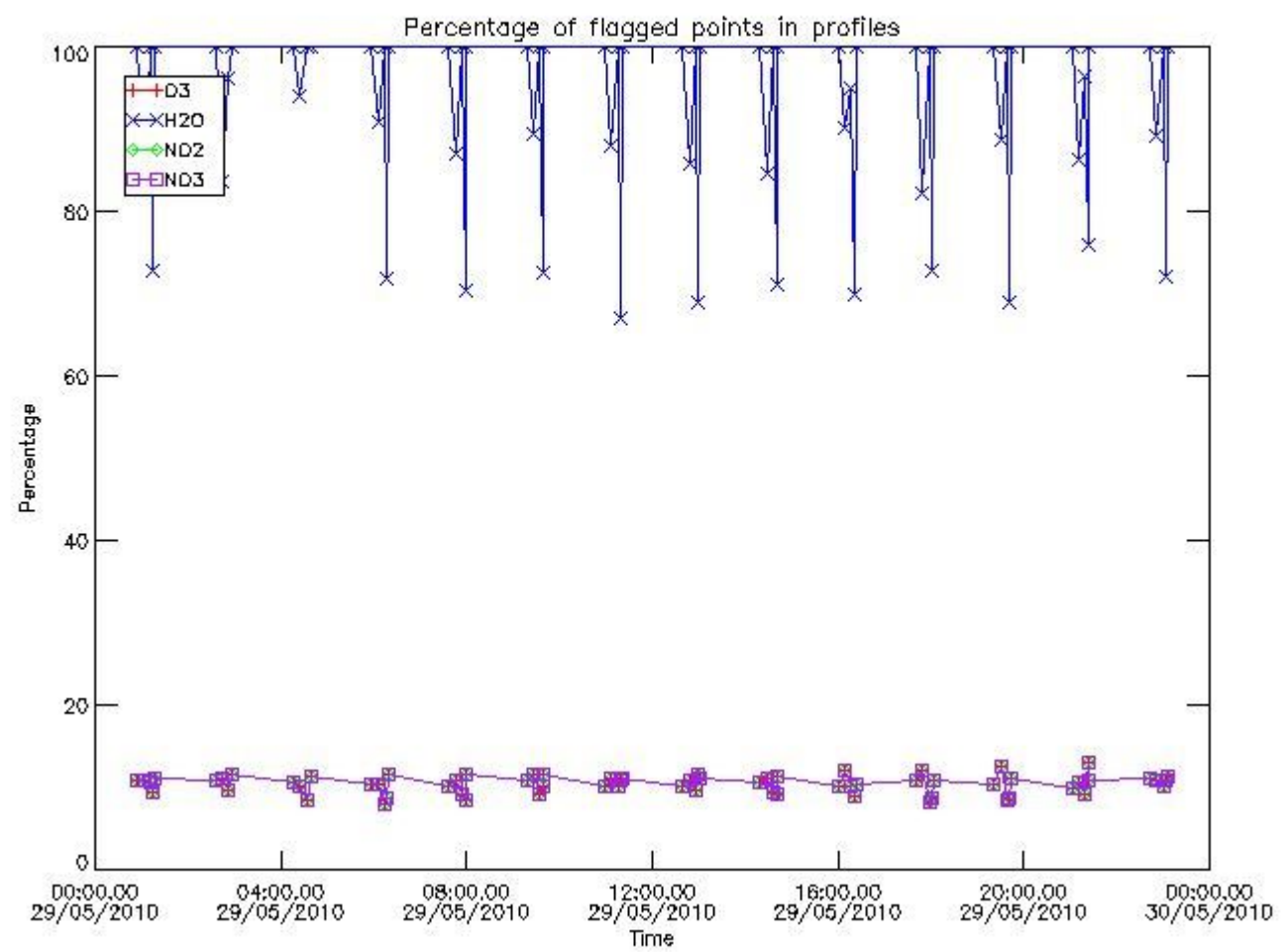


279	GOM_NL__2PRFIN20100529_204210_000000462089_00472_43111_2225.N1	29-MAY-2010 20:42:10	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	43111	No
280	GOM_NL__2PRFIN20100529_204653_000000552089_00472_43111_2226.N1	29-MAY-2010 20:46:53	Bright	55.000	76	27Gam Cas	2.3000	30000.	110	43111	No
281	GOM_NL__2PRFIN20100529_205432_000000562089_00472_43111_2227.N1	29-MAY-2010 20:54:32	Bright	56.000	53	43Bet And	2.0480	3300.0	112	43111	No
282	GOM_NL__2PRFIN20100529_205711_000000532089_00472_43111_2228.N1	29-MAY-2010 20:57:11	Twilight	52.500	58	21Alp And	2.0730	11000.	105	43111	No
283	GOM_NL__2PRFIN20100529_210158_000000512089_00472_43111_2229.N1	29-MAY-2010 21:01:58	Dark	50.500	140	88Gam Peg	2.8340	26000.	101	43111	No
284	GOM_NL__2PRFIN20100529_211054_000000482089_00472_43111_2230.N1	29-MAY-2010 21:10:54	Dark	48.000	52	16Bet Cet	2.0370	4500.0	96	43111	No
285	GOM_NL__2PRFIN20100529_211914_000000562089_00472_43111_2231.N1	29-MAY-2010 21:19:14	Dark	56.000	18	24Alp PsA	1.1660	9700.0	112	43111	No
286	GOM_NL__2PRFIN20100529_212246_000000592089_00473_43112_2217.N1	29-MAY-2010 21:22:46	Dark	58.500	63	Bet Gru	2.1500	2800.0	117	43112	No
287	GOM_NL__2PRFIN20100529_212436_000000482089_00473_43112_2218.N1	29-MAY-2010 21:24:36	Dark	47.500	31	Alp Gru	1.7340	15200.	95	43112	No
288	GOM_NL__2PRFIN20100529_212942_000000432089_00473_43112_2219.N1	29-MAY-2010 21:29:42	Twilight	42.500	45	Alp Pav	1.9400	26000.	85	43112	No
289	GOM_NL__2PRFIN20100529_213718_000000432089_00473_43112_2220.N1	29-MAY-2010 21:37:18	Twilight	43.000	147	Alp Ara	2.8770	26000.	86	43112	No
290	GOM_NL__2PRFIN20100529_213858_000000462089_00473_43112_2221.N1	29-MAY-2010 21:38:58	Twilight	46.000	40	The Sco	1.8590	7100.0	92	43112	No
291	GOM_NL__2PRFIN20100529_214047_000000502089_00473_43112_2222.N1	29-MAY-2010 21:40:47	Twilight	50.000	25	35Lam Sco	1.6200	28000.	100	43112	No
292	GOM_NL__2PRFIN20100529_214237_000000482089_00473_43112_2223.N1	29-MAY-2010 21:42:37	Twilight	47.500	75	26Eps Sco	2.2910	4250.0	95	43112	No
293	GOM_NL__2PRFIN20100529_214442_000000442089_00473_43112_2224.N1	29-MAY-2010 21:44:42	Bright	43.500	136	23Tau Sco	2.8220	30000.	87	43112	No
294	GOM_NL__2PRFIN20100529_214649_000000432089_00473_43112_2225.N1	29-MAY-2010 21:46:49	Bright	43.000	80	7Del Sco	2.3160	30000.	86	43112	No
295	GOM_NL__2PRFIN20100529_214825_000000502089_00473_43112_2226.N1	29-MAY-2010 21:48:25	Bright	50.000	86	35Eta Oph	2.4300	10200.	100	43112	No
296	GOM_NL__2PRFIN20100529_215019_000000442089_00473_43112_2227.N1	29-MAY-2010 21:50:19	Bright	43.500	98	13Zet Oph	2.5710	30000.	87	43112	No
297	GOM_NL__2PRFIN20100529_215232_000000412089_00473_43112_2228.N1	29-MAY-2010 21:52:32	Bright	41.000	120	1Del Oph	2.7340	3200.0	82	43112	No
298	GOM_NL__2PRFIN20100529_215533_000000382089_00473_43112_2229.N1	29-MAY-2010 21:55:33	Bright	37.500	102	24Alp Ser	2.6000	4250.0	75	43112	No
299	GOM_NL__2PRFIN20100529_220131_000000402089_00473_43112_2230.N1	29-MAY-2010 22:01:31	Bright	40.000	67	5Alp CrB	2.2210	11000.	80	43112	No
300	GOM_NL__2PRFIN20100529_220424_000000452089_00473_43112_2231.N1	29-MAY-2010 22:04:24	Bright	44.500	133	40Zet Her	2.8070	6000.0	89	43112	No
301	GOM_NL__2PRFIN20100529_221212_000000422089_00473_43112_2232.N1	29-MAY-2010 22:12:12	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	43112	No
302	GOM_NL__2PRFIN20100529_222246_000000472089_00473_43112_2233.N1	29-MAY-2010 22:22:46	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	43112	No
303	GOM_NL__2PRFIN20100529_222729_000000432089_00473_43112_2234.N1	29-MAY-2010 22:27:29	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	43112	No
304	GOM_NL__2PRFIN20100529_223508_000000562089_00473_43112_2235.N1	29-MAY-2010 22:35:08	Bright	56.000	53	43Bet And	2.0480	3300.0	112	43112	No
305	GOM_NL__2PRFIN20100529_223746_000000542089_00473_43112_2236.N1	29-MAY-2010 22:37:46	Twilight	54.000	58	21Alp And	2.0730	11000.	108	43112	No
306	GOM_NL__2PRFIN20100529_224234_000000512089_00473_43112_2237.N1	29-MAY-2010 22:42:34	Dark	50.500	140	88Gam Peg	2.8340	26000.	101	43112	No
307	GOM_NL__2PRFIN20100529_225130_000000472089_00473_43112_2238.N1	29-MAY-2010 22:51:30	Dark	47.000	52	16Bet Cet	2.0370	4500.0	94	43112	No
308	GOM_NL__2PRFIN20100529_225951_000000512089_00473_43112_2239.N1	29-MAY-2010 22:59:51	Dark	50.500	18	24Alp PsA	1.1660	9700.0	101	43112	No
309	GOM_NL__2PRFIN20100529_230323_000000612089_00474_43113_2225.N1	29-MAY-2010 23:03:23	Dark	61.000	63	Bet Gru	2.1500	2800.0	122	43113	No
310	GOM_NL__2PRFIN20100529_230513_000000452089_00474_43113_2226.N1	29-MAY-2010 23:05:13	Dark	45.000	31	Alp Gru	1.7340	15200.	90	43113	No
311	GOM_NL__2PRFIN20100529_231019_000000452089_00474_43113_2227.N1	29-MAY-2010 23:10:19	Twilight	44.500	45	Alp Pav	1.9400	26000.	89	43113	No
312	GOM_NL__2PRFIN20100529_231754_000000422089_00474_43113_2228.N1	29-MAY-2010 23:17:54	Twilight	42.000	147	Alp Ara	2.8770	26000.	84	43113	No
313	GOM_NL__2PRFIN20100529_231935_000000522089_00474_43113_2229.N1	29-MAY-2010 23:19:35	Twilight	51.500	40	The Sco	1.8590	7100.0	103	43113	No
314	GOM_NL__2PRFIN20100529_232124_000000472089_00474_43113_2230.N1	29-MAY-2010 23:21:24	Twilight	47.000	25	35Lam Sco	1.6200	28000.	94	43113	No
315	GOM_NL__2PRFIN20100529_232314_000000462089_00474_43113_2231.N1	29-MAY-2010 23:23:14	Twilight	46.000	75	26Eps Sco	2.2910	4250.0	92	43113	No
316	GOM_NL__2PRFIN20100529_232518_000000442089_00474_43113_2232.N1	29-MAY-2010 23:25:18	Bright	43.500	136	23Tau Sco	2.8220	30000.	87	43113	No
317	GOM_NL__2PRFIN20100529_232725_000000442089_00474_43113_2233.N1	29-MAY-2010 23:27:25	Bright	44.000	80	7Del Sco	2.3160	30000.	88	43113	No
318	GOM_NL__2PRFIN20100529_232901_000000482089_00474_43113_2234.N1	29-MAY-2010 23:29:01	Bright	48.000	86	35Eta Oph	2.4300	10200.	96	43113	No
319	GOM_NL__2PRFIN20100529_233055_000000422089_00474_43113_2235.N1	29-MAY-2010 23:30:55	Bright	42.000	98	13Zet Oph	2.5710	30000.	84	43113	No
320	GOM_NL__2PRFIN20100529_233308_000000412089_00474_43113_2236.N1	29-MAY-2010 23:33:08	Bright	41.000	120	1Del Oph	2.7340	3200.0	82	43113	No
321	GOM_NL__2PRFIN20100529_233609_000000392089_00474_43113_2237.N1	29-MAY-2010 23:36:09	Bright	38.500	102	24Alp Ser	2.6000	4250.0	77	43113	No
322	GOM_NL__2PRFIN20100529_234207_000000392089_00474_43113_2238.N1	29-MAY-2010 23:42:07	Bright	39.000	67	5Alp CrB	2.2210	11000.	78	43113	No
323	GOM_NL__2PRFIN20100529_234459_000000482089_00474_43113_2239.N1	29-MAY-2010 23:44:59	Bright	48.000	133	40Zet Her	2.8070	6000.0	96	43113	No
324	GOM_NL__2PRFIN20100529_235248_000000392089_00474_43113_2240.N1	29-MAY-2010 23:52:48	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	43113	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.

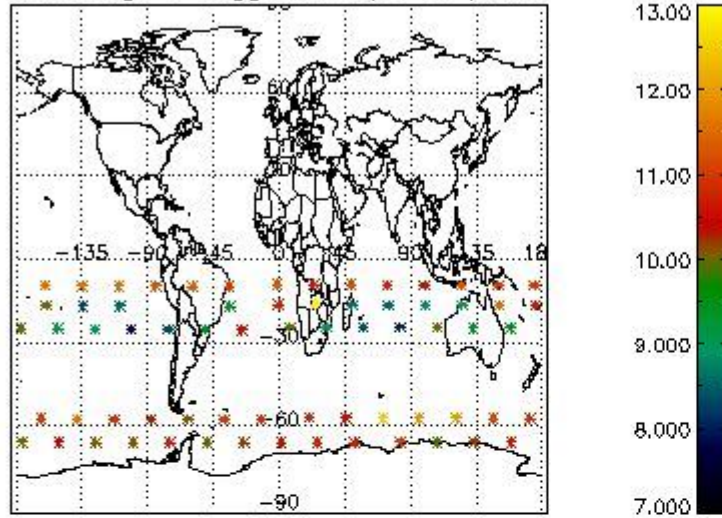
#### 3.1 Plot quality information per product (time dependant)



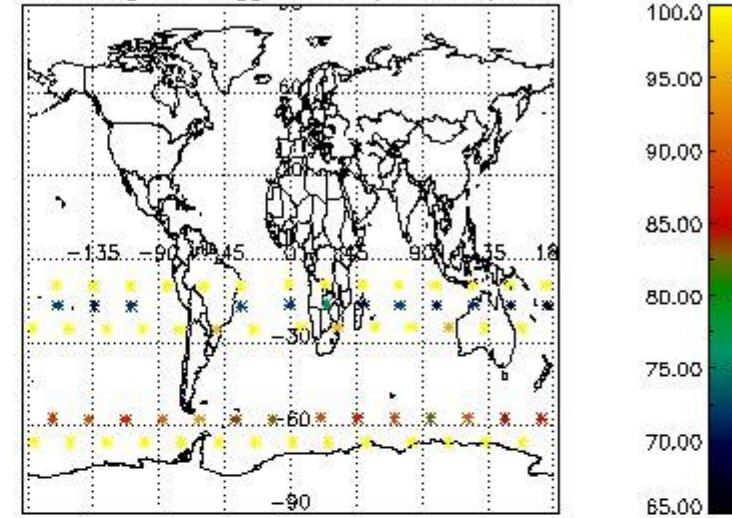
3.2 Plot quality information per product (world map)



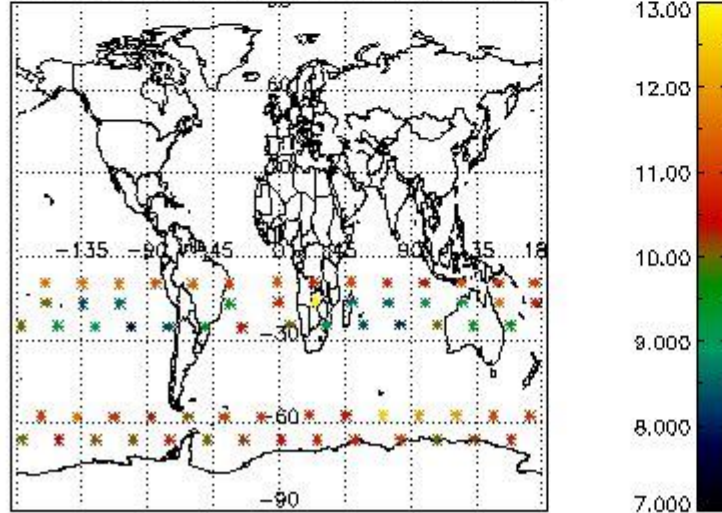
Percentage of flagged data per O3 profile



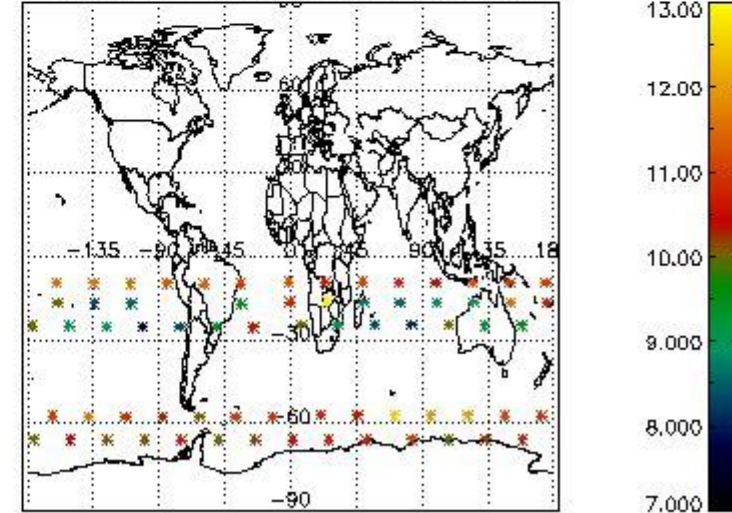
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

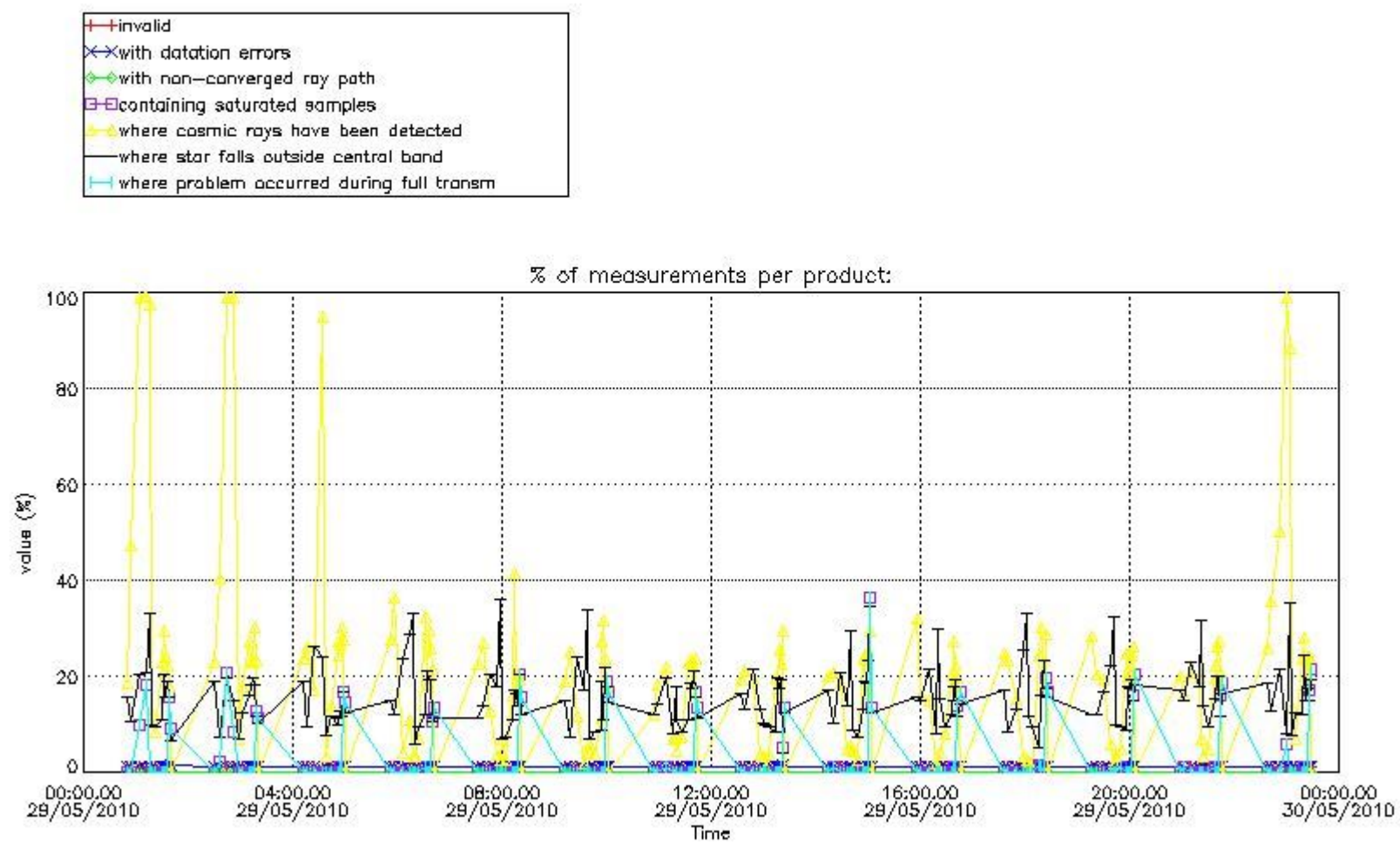


#### 4. Level 1 quality information per product

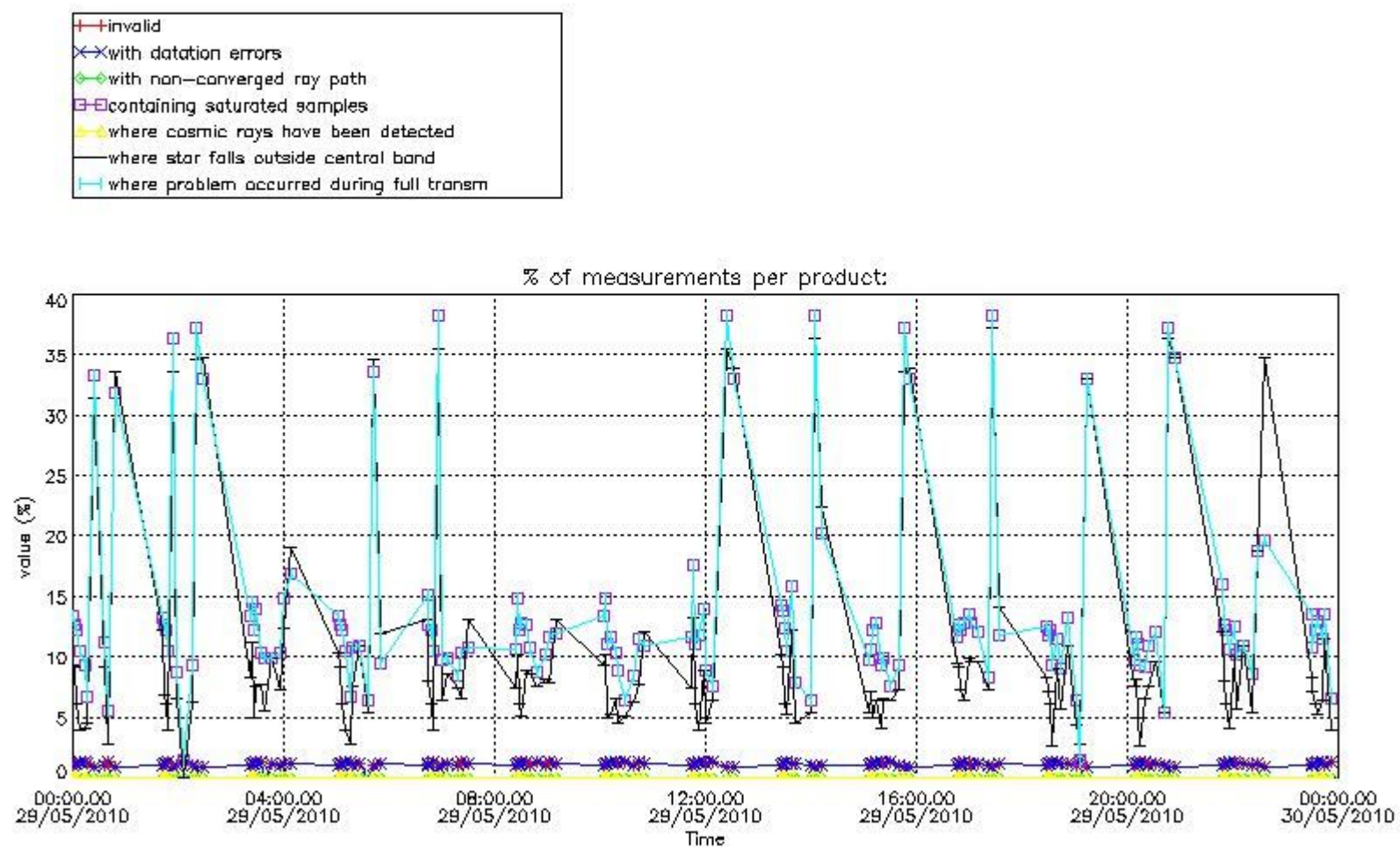
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

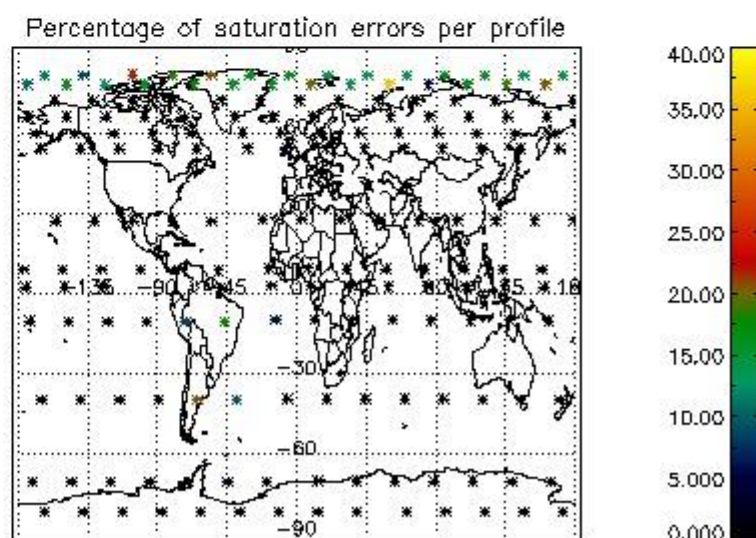
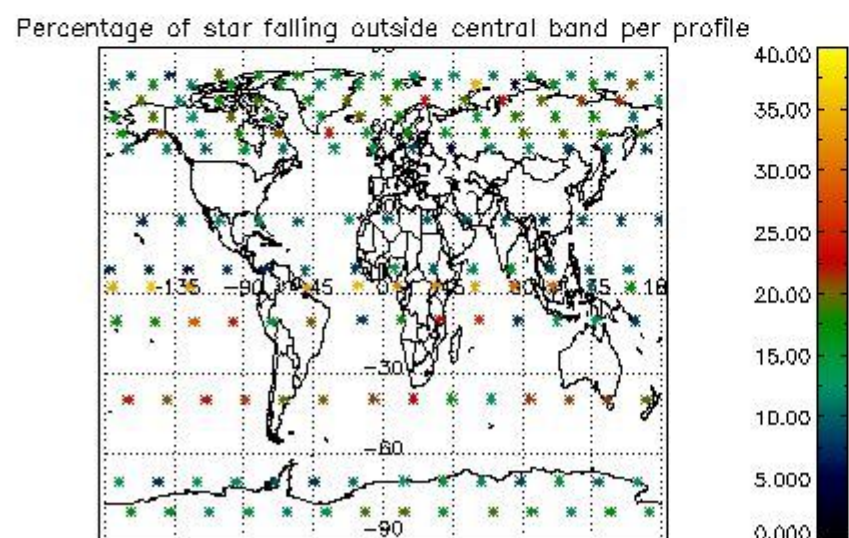
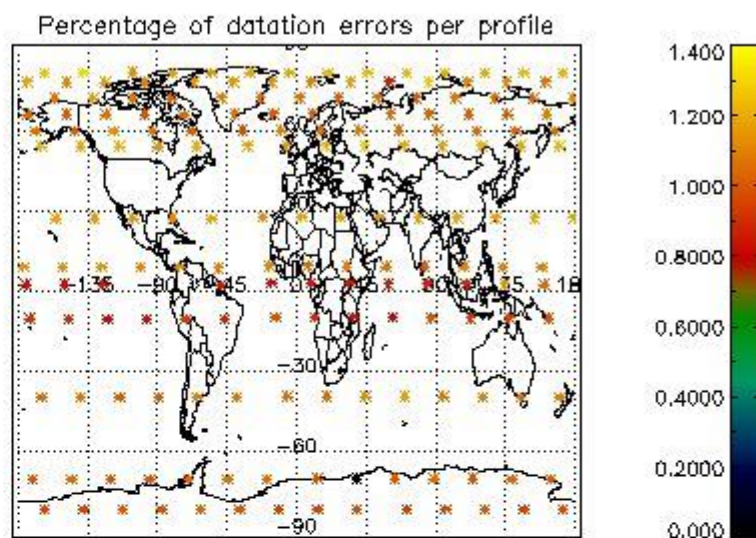
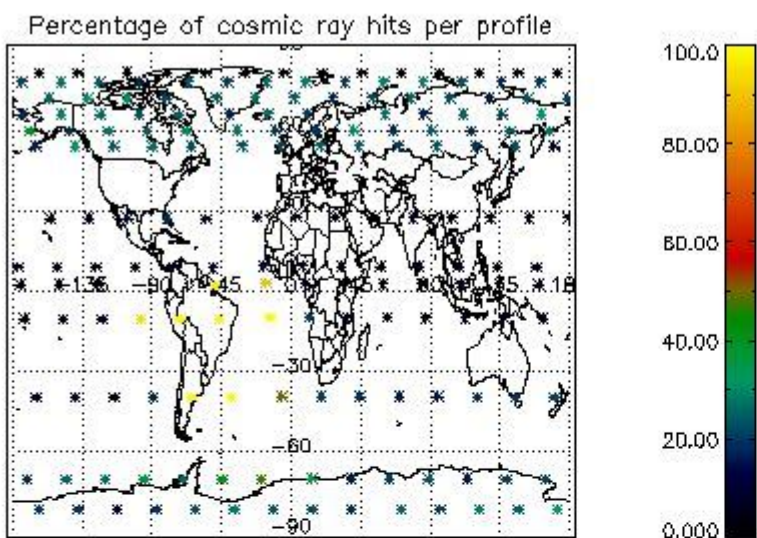


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

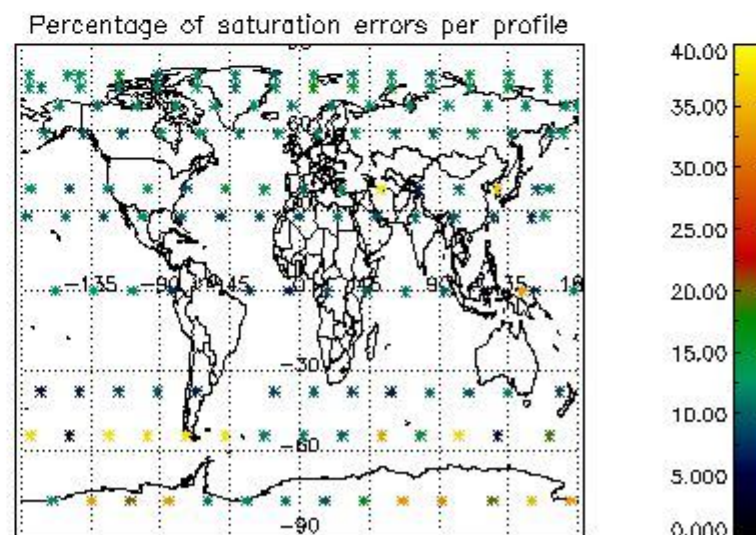
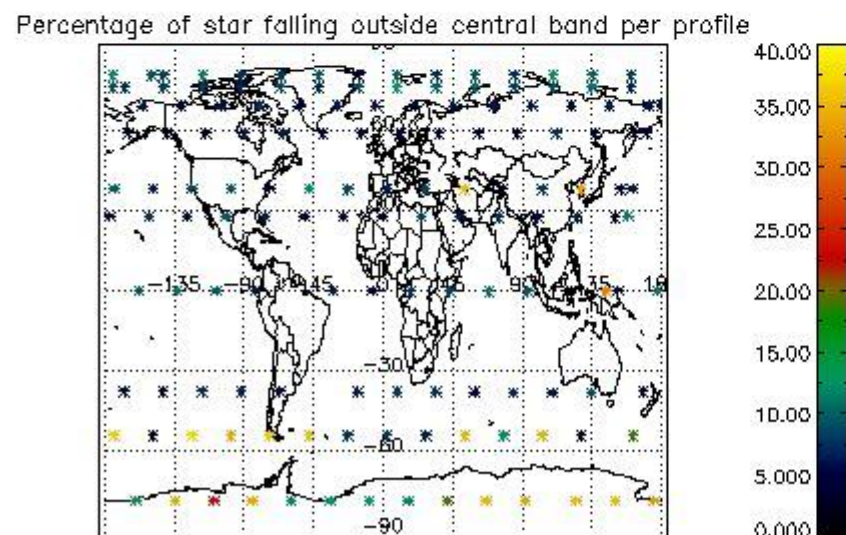
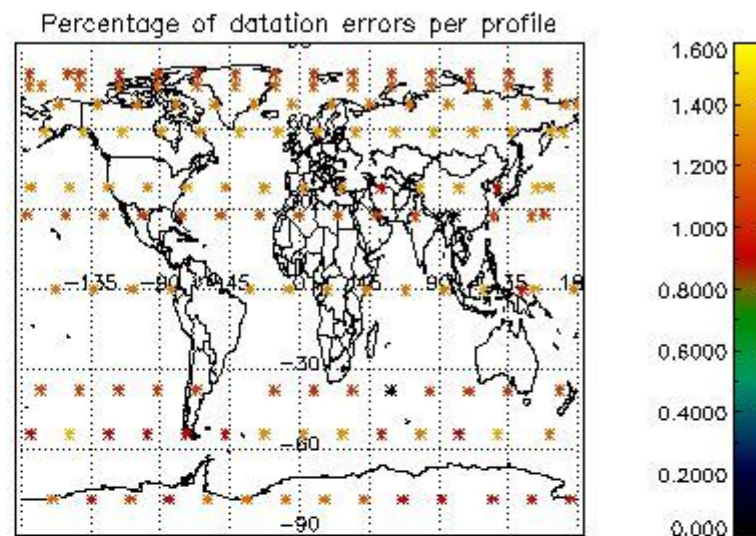
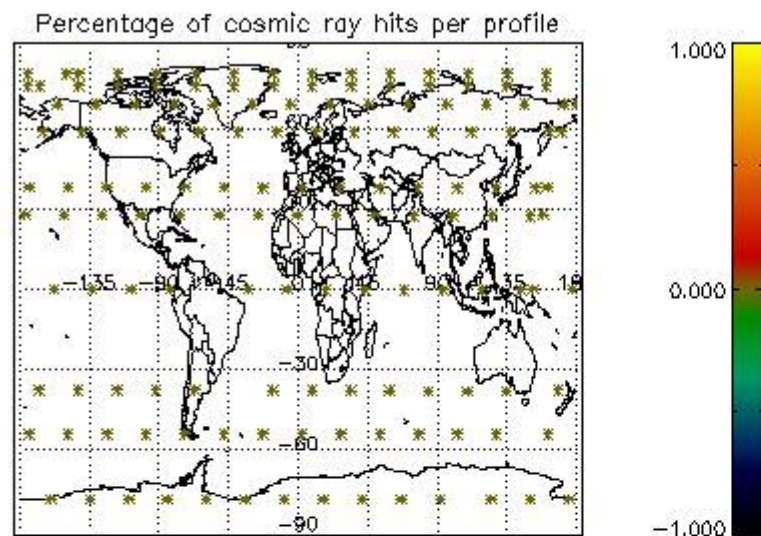


4.2 Plot quality information per product coming from level 1b processing (world map)

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

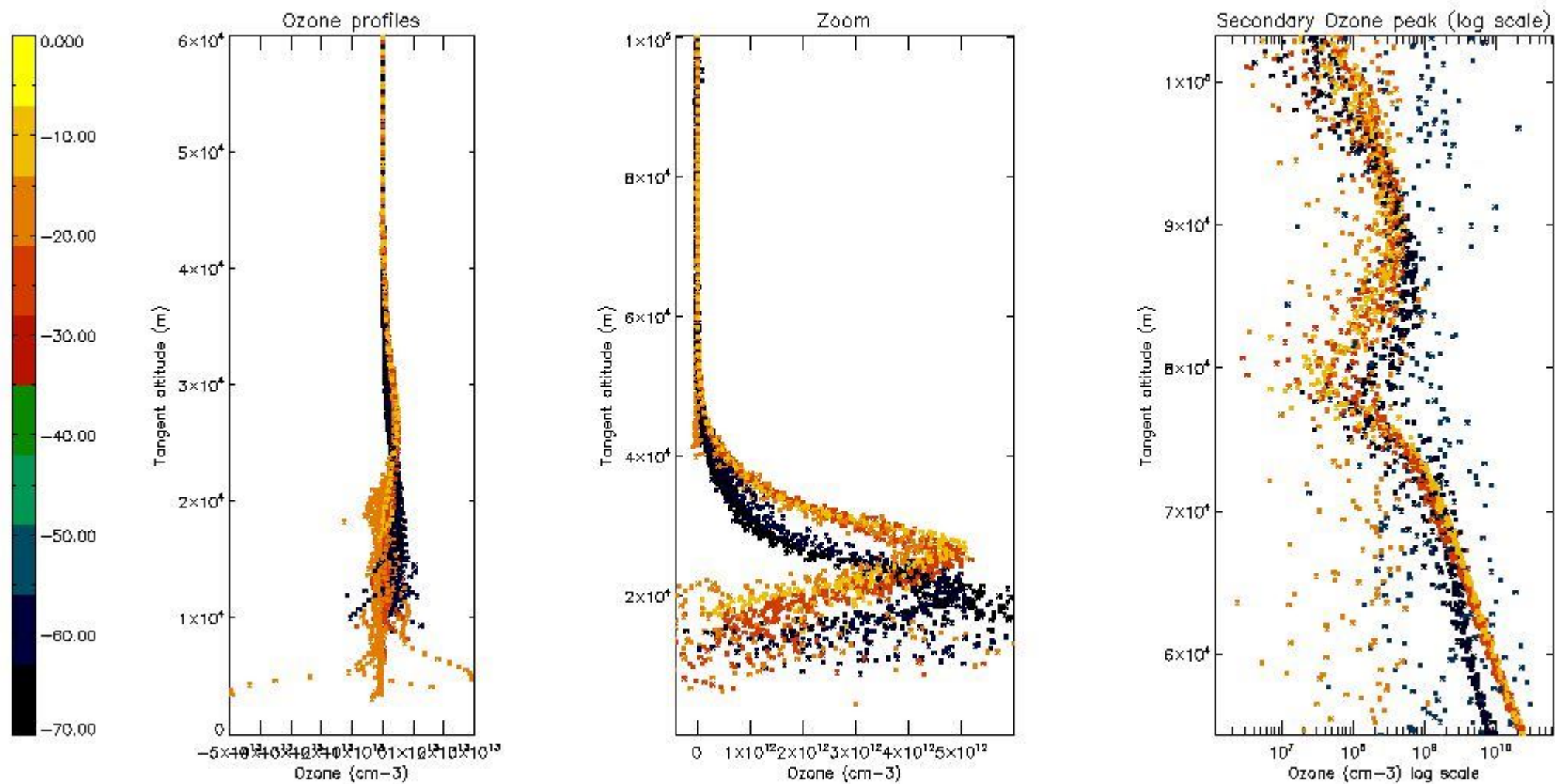
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	24
STD < 20	12

STD < 10	9
STD < 5	6

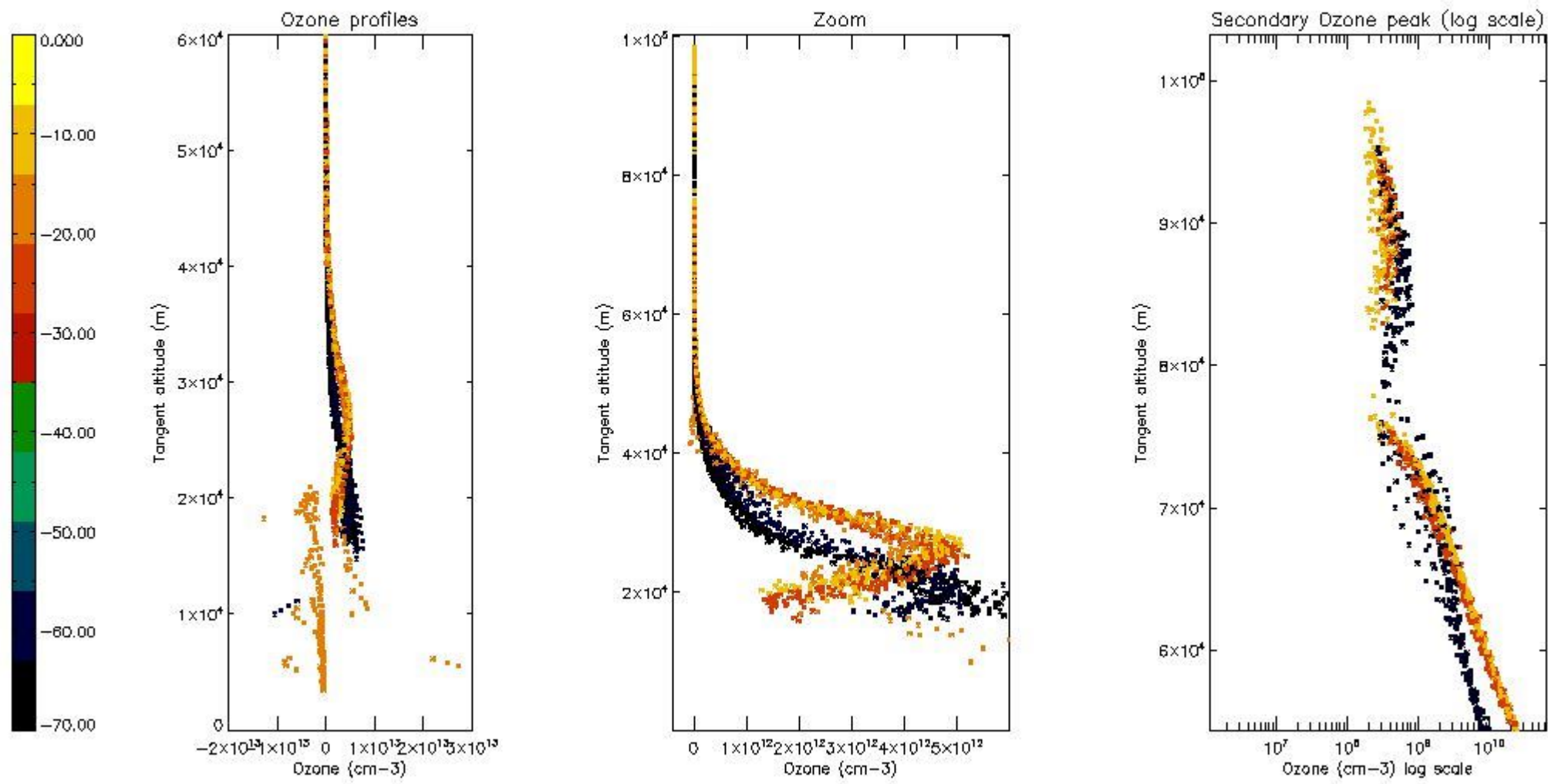
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



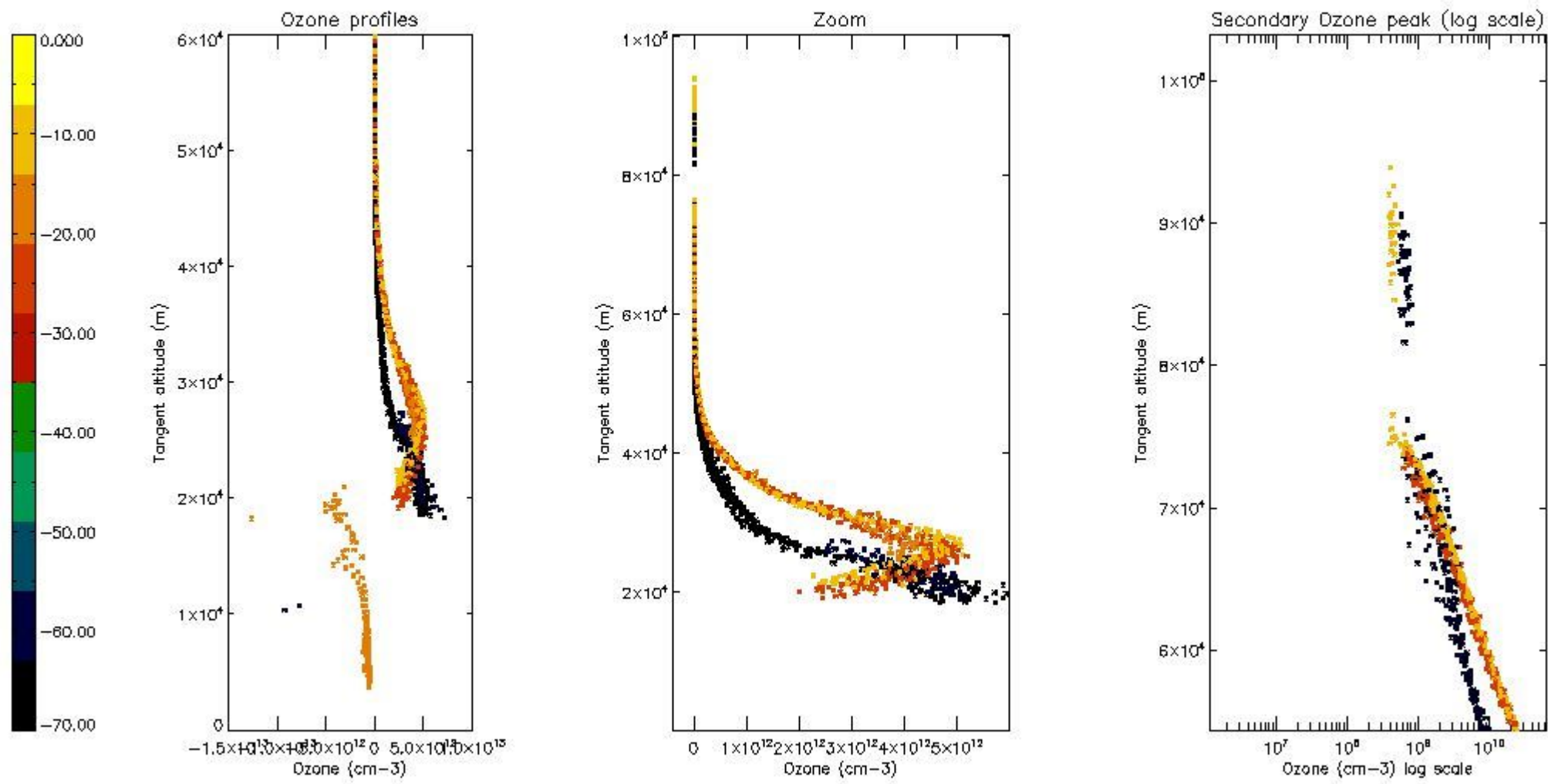
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



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

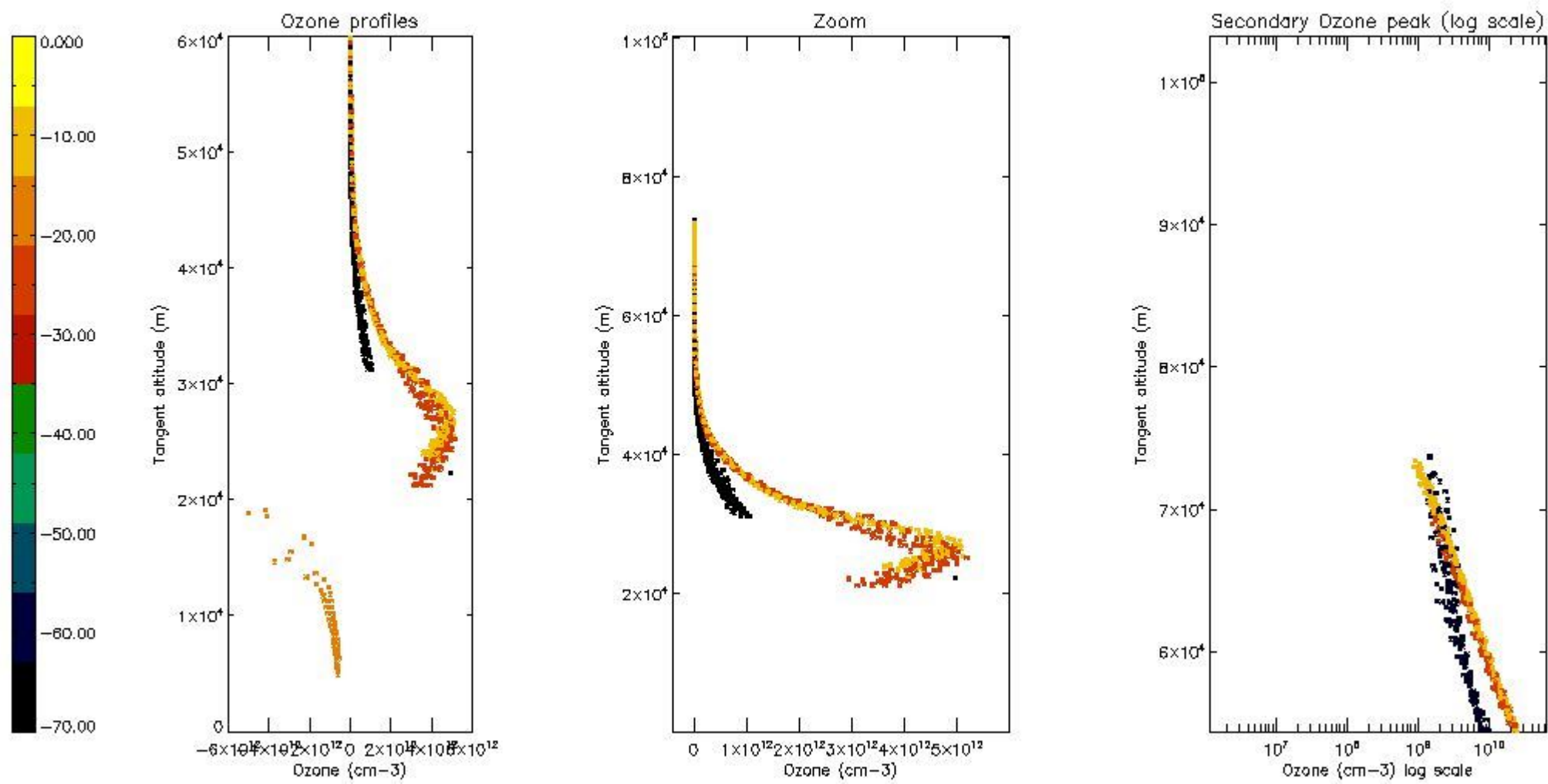
The colorbar represents the latitude.



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

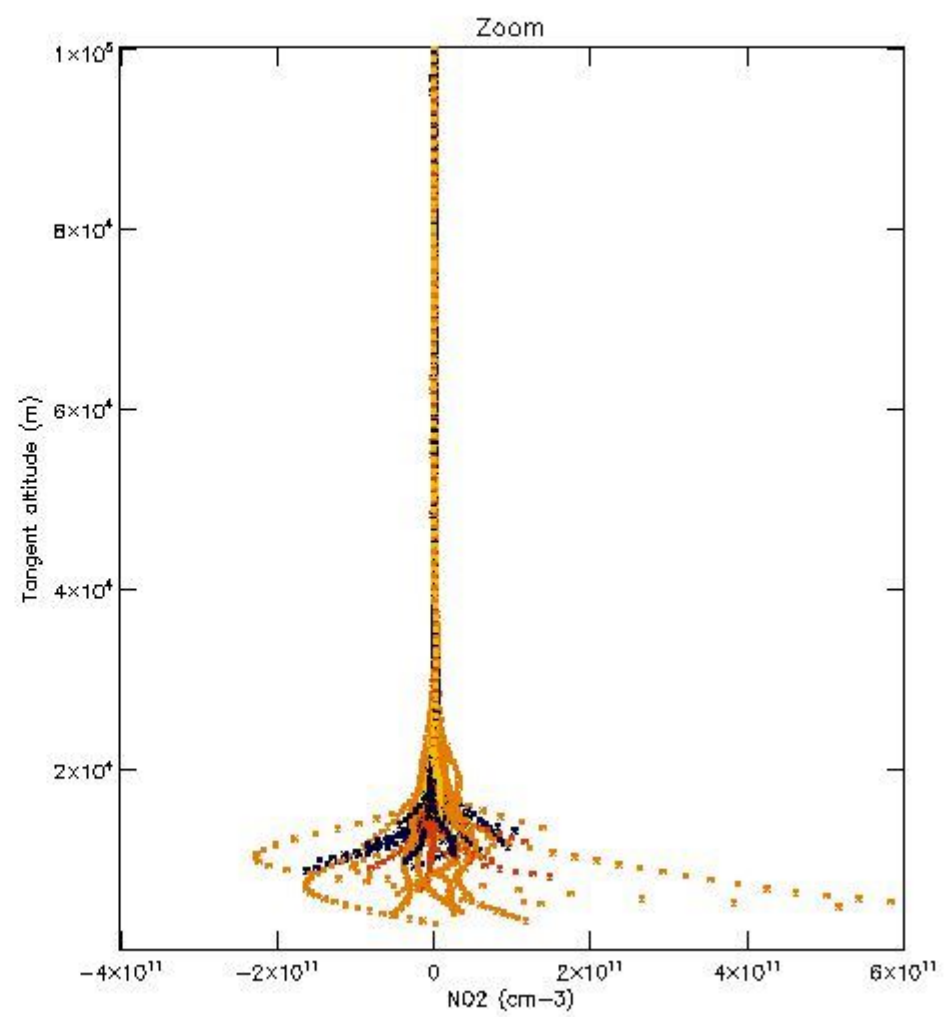
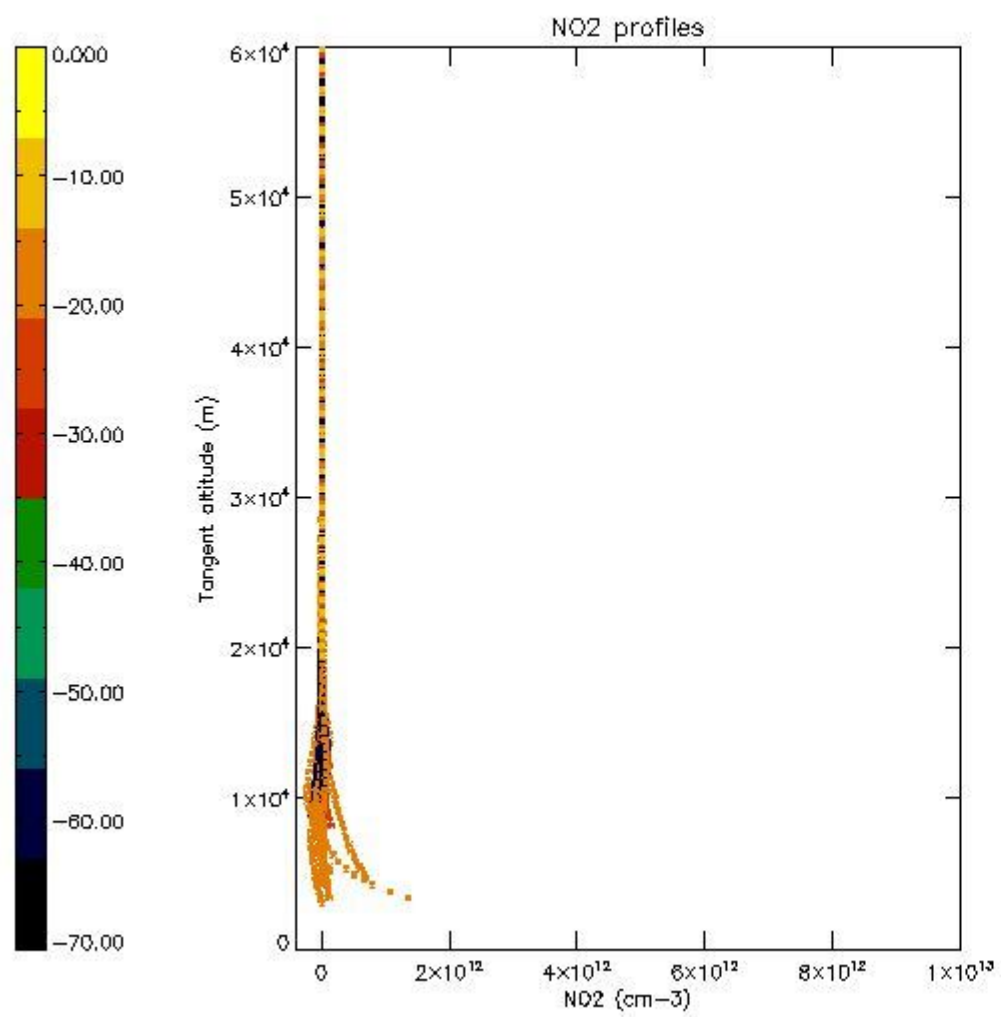
The colorbar represents the latitude.





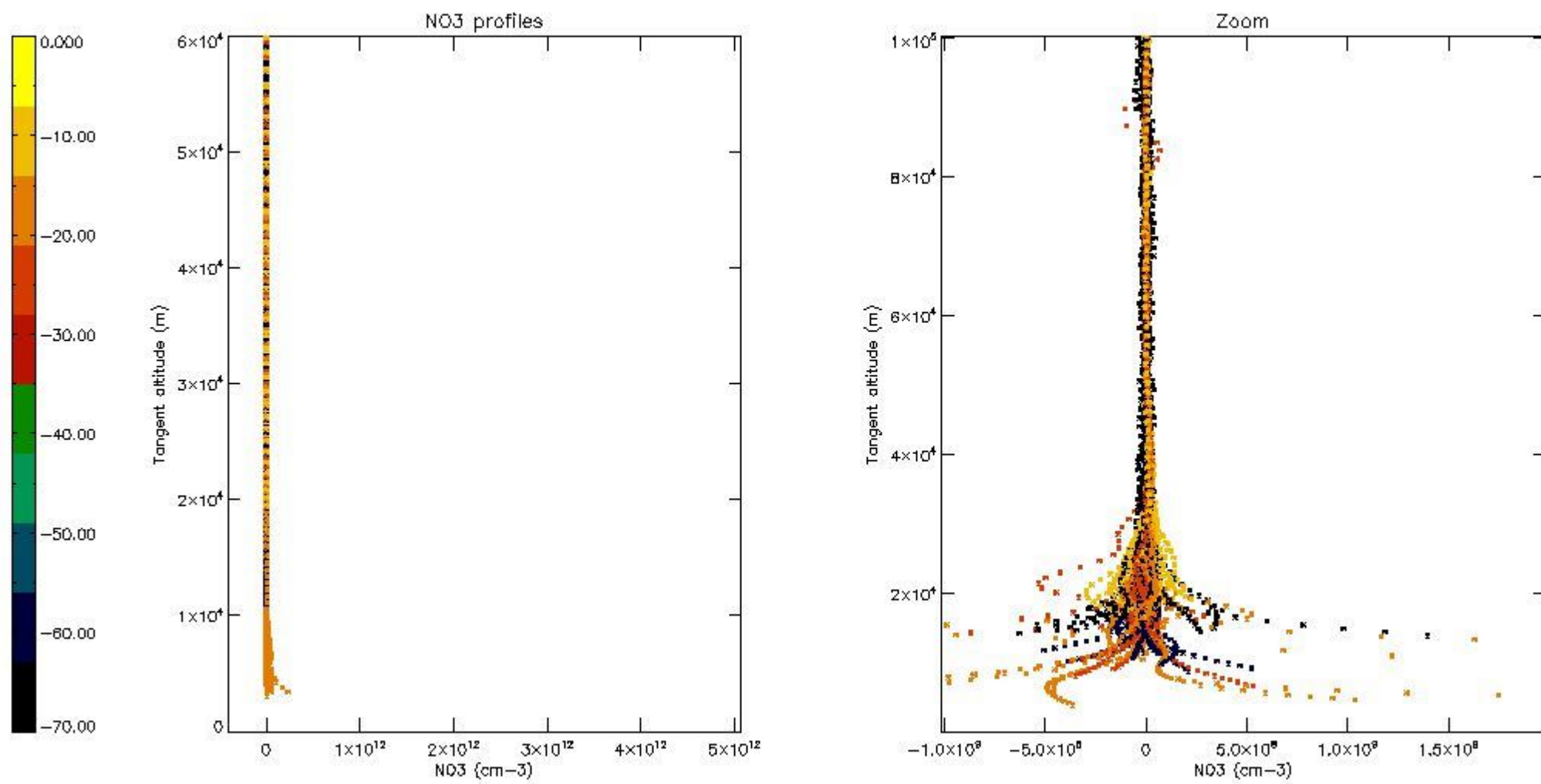
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



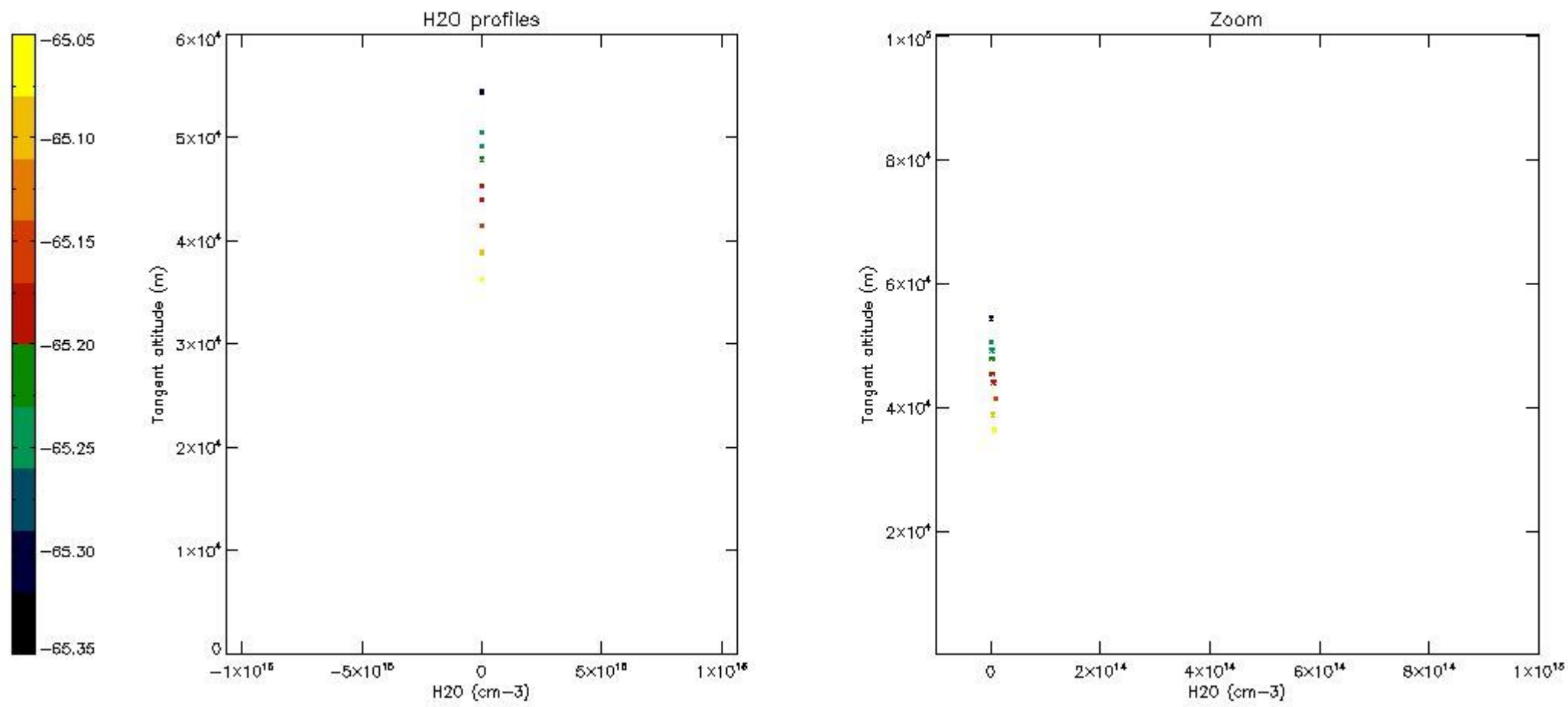
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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	29-MAY-2010 00:00:37
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	29-MAY-2010 00:00:37
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	29-MAY-2010 00:00:37

# GOMOS Level 2 Daily Report

## SUMMARY

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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% \(dark without errors\)](#)

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

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#### [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	29APR2013 11:18:26
Data source version	GOMOS/6.01
Start time of products	29-05-2010 (29MAY2010 00:00:00)
Stop time of products	30-05-2010 (30MAY2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	324
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__2PRFIN20100529_000037_000000492089_00460_43099_2095.N1	29-MAY-2010 00:00:37	Bright	48.500	86	35Eta Oph	2.4300	10200.	97	43099	No
2	GOM_NL__2PRFIN20100529_000232_000000442089_00460_43099_2096.N1	29-MAY-2010 00:02:32	Bright	43.500	98	13Zet Oph	2.5710	30000.	87	43099	No
3	GOM_NL__2PRFIN20100529_000446_000000412089_00460_43099_2097.N1	29-MAY-2010 00:04:46	Bright	41.000	120	1Del Oph	2.7340	3200.0	82	43099	No
4	GOM_NL__2PRFIN20100529_000747_000000382089_00460_43099_2098.N1	29-MAY-2010 00:07:47	Bright	38.000	102	24Alp Ser	2.6000	4250.0	76	43099	No
5	GOM_NL__2PRFIN20100529_001346_000000382089_00460_43099_2099.N1	29-MAY-2010 00:13:46	Bright	37.500	67	5Alp CrB	2.2210	11000.	75	43099	No
6	GOM_NL__2PRFIN20100529_001644_000000452089_00460_43099_2100.N1	29-MAY-2010 00:16:44	Bright	44.500	133	40Zet Her	2.8070	6000.0	89	43099	No
7	GOM_NL__2PRFIN20100529_002429_000000542089_00460_43099_2101.N1	29-MAY-2010 00:24:29	Bright	54.000	119	14Eta Dra	2.7270	4700.0	108	43099	No
8	GOM_NL__2PRFIN20100529_003506_000000492089_00460_43099_2102.N1	29-MAY-2010 00:35:06	Bright	49.000	89	5Alp Cep	2.4510	8000.0	98	43099	No
9	GOM_NL__2PRFIN20100529_003943_000000372089_00460_43099_2103.N1	29-MAY-2010 00:39:43	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	43099	No
10	GOM_NL__2PRFIN20100529_004719_000000552089_00460_43099_2104.N1	29-MAY-2010 00:47:19	Bright	55.000	53	43Bet And	2.0480	3300.0	110	43099	No
11	GOM_NL__2PRFIN20100529_004957_000000512089_00460_43099_2105.N1	29-MAY-2010 00:49:57	Twilight	51.000	58	21Alp And	2.0730	11000.	102	43099	No
12	GOM_NL__2PRFIN20100529_005441_000000482089_00460_43099_2106.N1	29-MAY-2010 00:54:41	Dark	47.500	140	88Gam Peg	2.8340	26000.	95	43099	No
13	GOM_NL__2PRFIN20100529_010336_000000472089_00460_43099_2107.N1	29-MAY-2010 01:03:36	Dark	46.500	52	16Bet Cet	2.0370	4500.0	93	43099	No
14	GOM_NL__2PRFIN20100529_011149_000000582089_00460_43099_2108.N1	29-MAY-2010 01:11:49	Dark	57.500	18	24Alp PsA	1.1660	9700.0	115	43099	No
15	GOM_NL__2PRFIN20100529_011525_000000592089_00461_43100_2095.N1	29-MAY-2010 01:15:25	Dark	59.000	63	Bet Gru	2.1500	2800.0	118	43100	No
16	GOM_NL__2PRFIN20100529_011714_000000462089_00461_43100_2096.N1	29-MAY-2010 01:17:14	Dark	46.000	31	Alp Gru	1.7340	15200.	92	43100	No
17	GOM_NL__2PRFIN20100529_012223_000000432089_00461_43100_2097.N1	29-MAY-2010 01:22:23	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	43100	No
18	GOM_NL__2PRFIN20100529_013001_000000422089_00461_43100_2098.N1	29-MAY-2010 01:30:01	Straylight	41.500	147	Alp Ara	2.8770	26000.	83	43100	No
19	GOM_NL__2PRFIN20100529_013141_000000492089_00461_43100_2099.N1	29-MAY-2010 01:31:41	Straylight	49.000	40	The Sco	1.8590	7100.0	98	43100	No
20	GOM_NL__2PRFIN20100529_013330_000000482089_00461_43100_2100.N1	29-MAY-2010 01:33:30	Twilight	48.000	25	35Lam Sco	1.6200	28000.	96	43100	No
21	GOM_NL__2PRFIN20100529_013522_000000482089_00461_43100_2101.N1	29-MAY-2010 01:35:22	Twilight	47.500	75	26Eps Sco	2.2910	4250.0	95	43100	No
22	GOM_NL__2PRFIN20100529_013727_000000452089_00461_43100_2102.N1	29-MAY-2010 01:37:27	Twilight	45.000	136	23Tau Sco	2.8220	30000.	90	43100	No
23	GOM_NL__2PRFIN20100529_013936_000000392089_00461_43100_2103.N1	29-MAY-2010 01:39:36	Bright	38.500	80	7Del Sco	2.3160	30000.	77	43100	No
24	GOM_NL__2PRFIN20100529_014113_000000492089_00461_43100_2104.N1	29-MAY-2010 01:41:13	Bright	49.000	86	35Eta Oph	2.4300	10200.	98	43100	No
25	GOM_NL__2PRFIN20100529_014307_000000442089_00461_43100_2105.N1	29-MAY-2010 01:43:07	Bright	43.500	98	13Zet Oph	2.5710	30000.	87	43100	No
26	GOM_NL__2PRFIN20100529_014521_000000412089_00461_43100_2106.N1	29-MAY-2010 01:45:21	Bright	41.000	120	1Del Oph	2.7340	3200.0	82	43100	No
27	GOM_NL__2PRFIN20100529_014823_000000382089_00461_43100_2107.N1	29-MAY-2010 01:48:23	Bright	38.000	102	24Alp Ser	2.6000	4250.0	76	43100	No
28	GOM_NL__2PRFIN20100529_015421_000000552089_00461_43100_2108.N1	29-MAY-2010 01:54:21	Bright	55.000	67	5Alp CrB	2.2210	11000.	110	43100	No
29	GOM_NL__2PRFIN20100529_015719_000000462089_00461_43100_2109.N1	29-MAY-2010 01:57:19	Bright	46.000	133	40Zet Her	2.8070	6000.0	92	43100	No
30	GOM_NL__2PRFIN20100529_020505_000000362089_00461_43100_2110.N1	29-MAY-2010 02:05:05	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	43100	No
31	GOM_NL__2PRFIN20100529_021541_000000482089_00461_43100_2111.N1	29-MAY-2010 02:15:41	Bright	48.000	89	5Alp Cep	2.4510	8000.0	96	43100	No
32	GOM_NL__2PRFIN20100529_022018_000000552089_00461_43100_2112.N1	29-MAY-2010 02:20:18	Bright	55.000	76	27Gam Cas	2.3000	30000.	110	43100	No
33	GOM_NL__2PRFIN20100529_022755_000000562089_00461_43100_2113.N1	29-MAY-2010 02:27:55	Bright	56.000	53	43Bet And	2.0480	3300.0	112	43100	No
34	GOM_NL__2PRFIN20100529_023033_000000532089_00461_43100_2114.N1	29-MAY-2010 02:30:33	Twilight	52.500	58	21Alp And	2.0730	11000.	105	43100	No
35	GOM_NL__2PRFIN20100529_023517_000000472089_00461_43100_2115.N1	29-MAY-2010 02:35:17	Dark	47.000	140	88Gam Peg	2.8340	26000.	94	43100	No
36	GOM_NL__2PRFIN20100529_024412_000000462089_00461_43100_2116.N1	29-MAY-2010 02:44:12	Dark	46.000	52	16Bet Cet	2.0370	4500.0	92	43100	No
37	GOM_NL__2PRFIN20100529_025226_000000542089_00461_43100_2117.N1	29-MAY-2010 02:52:26	Dark	53.500	18	24Alp PsA	1.1660	9700.0	107	43100	No
38	GOM_NL__2PRFIN20100529_025750_000000452089_00462_43101_2103.N1	29-MAY-2010 02:57:50	Dark	44.500	31	Alp Gru	1.7340	15200.	89	43101	No
39	GOM_NL__2PRFIN20100529_030259_000000452089_00462_43101_2104.N1	29-MAY-2010 03:02:59	Straylight	44.500	45	Alp Pav	1.9400	26000.	89	43101	No
40	GOM_NL__2PRFIN20100529_031038_000000442089_00462_43101_2105.N1	29-MAY-2010 03:10:38	Straylight	44.000	147	Alp Ara	2.8770	26000.	88	43101	No
41	GOM_NL__2PRFIN20100529_031218_000000472089_00462_43101_2106.N1	29-MAY-2010 03:12:18	Straylight	47.000	40	The Sco	1.8590	7100.0	94	43101	No
42	GOM_NL__2PRFIN20100529_031407_000000512089_00462_43101_2107.N1	29-MAY-2010 03:14:07	Twilight	50.500	25	35Lam Sco	1.6200	28000.	101	43101	No









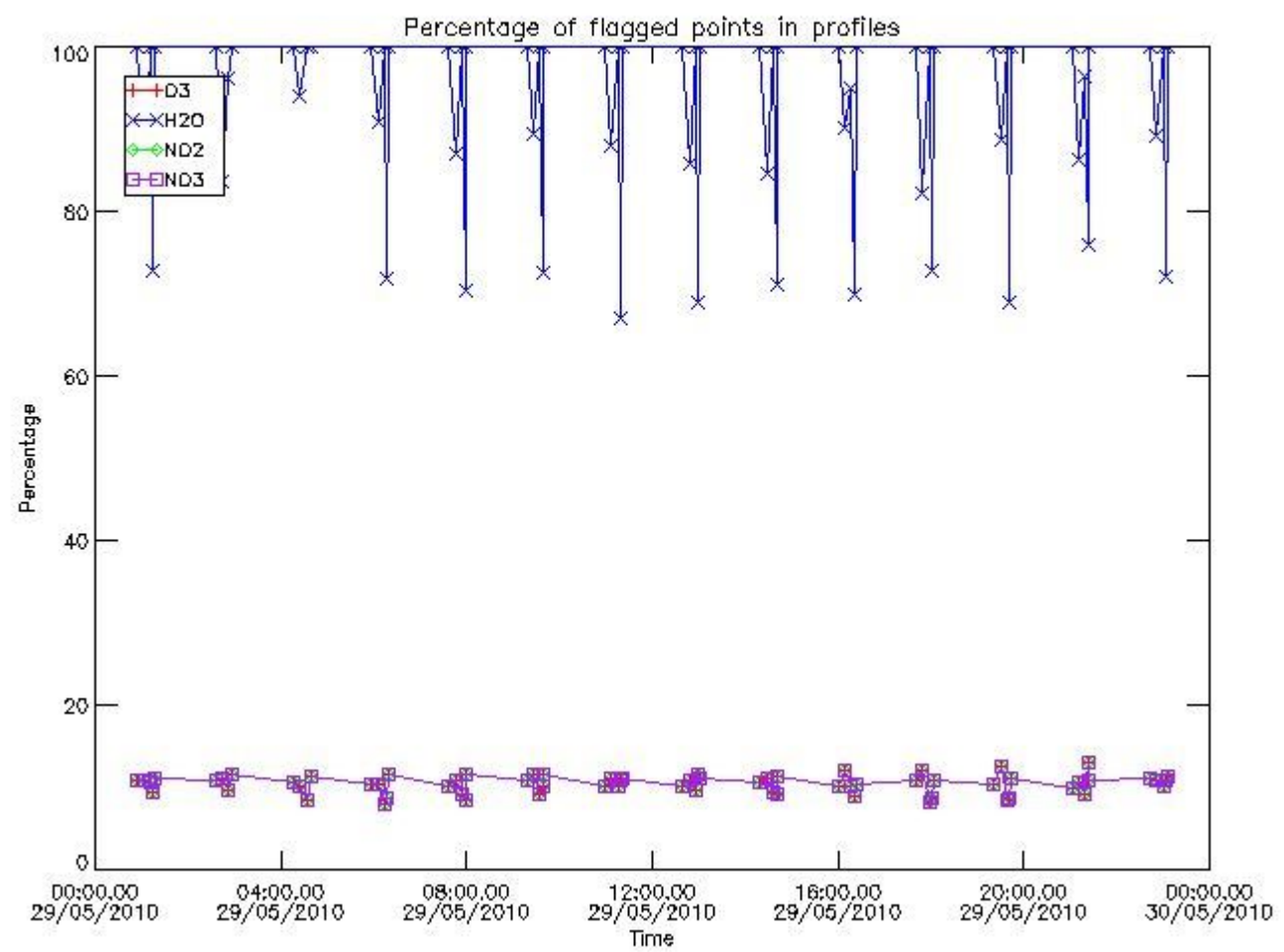


279	GOM_NL__2PRFIN20100529_204210_000000462089_00472_43111_2225.N1	29-MAY-2010 20:42:10	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	43111	No
280	GOM_NL__2PRFIN20100529_204653_000000552089_00472_43111_2226.N1	29-MAY-2010 20:46:53	Bright	55.000	76	27Gam Cas	2.3000	30000.	110	43111	No
281	GOM_NL__2PRFIN20100529_205432_000000562089_00472_43111_2227.N1	29-MAY-2010 20:54:32	Bright	56.000	53	43Bet And	2.0480	3300.0	112	43111	No
282	GOM_NL__2PRFIN20100529_205711_000000532089_00472_43111_2228.N1	29-MAY-2010 20:57:11	Twilight	52.500	58	21Alp And	2.0730	11000.	105	43111	No
283	GOM_NL__2PRFIN20100529_210158_000000512089_00472_43111_2229.N1	29-MAY-2010 21:01:58	Dark	50.500	140	88Gam Peg	2.8340	26000.	101	43111	No
284	GOM_NL__2PRFIN20100529_211054_000000482089_00472_43111_2230.N1	29-MAY-2010 21:10:54	Dark	48.000	52	16Bet Cet	2.0370	4500.0	96	43111	No
285	GOM_NL__2PRFIN20100529_211914_000000562089_00472_43111_2231.N1	29-MAY-2010 21:19:14	Dark	56.000	18	24Alp PsA	1.1660	9700.0	112	43111	No
286	GOM_NL__2PRFIN20100529_212246_000000592089_00473_43112_2217.N1	29-MAY-2010 21:22:46	Dark	58.500	63	Bet Gru	2.1500	2800.0	117	43112	No
287	GOM_NL__2PRFIN20100529_212436_000000482089_00473_43112_2218.N1	29-MAY-2010 21:24:36	Dark	47.500	31	Alp Gru	1.7340	15200.	95	43112	No
288	GOM_NL__2PRFIN20100529_212942_000000432089_00473_43112_2219.N1	29-MAY-2010 21:29:42	Twilight	42.500	45	Alp Pav	1.9400	26000.	85	43112	No
289	GOM_NL__2PRFIN20100529_213718_000000432089_00473_43112_2220.N1	29-MAY-2010 21:37:18	Twilight	43.000	147	Alp Ara	2.8770	26000.	86	43112	No
290	GOM_NL__2PRFIN20100529_213858_000000462089_00473_43112_2221.N1	29-MAY-2010 21:38:58	Twilight	46.000	40	The Sco	1.8590	7100.0	92	43112	No
291	GOM_NL__2PRFIN20100529_214047_000000502089_00473_43112_2222.N1	29-MAY-2010 21:40:47	Twilight	50.000	25	35Lam Sco	1.6200	28000.	100	43112	No
292	GOM_NL__2PRFIN20100529_214237_000000482089_00473_43112_2223.N1	29-MAY-2010 21:42:37	Twilight	47.500	75	26Eps Sco	2.2910	4250.0	95	43112	No
293	GOM_NL__2PRFIN20100529_214442_000000442089_00473_43112_2224.N1	29-MAY-2010 21:44:42	Bright	43.500	136	23Tau Sco	2.8220	30000.	87	43112	No
294	GOM_NL__2PRFIN20100529_214649_000000432089_00473_43112_2225.N1	29-MAY-2010 21:46:49	Bright	43.000	80	7Del Sco	2.3160	30000.	86	43112	No
295	GOM_NL__2PRFIN20100529_214825_000000502089_00473_43112_2226.N1	29-MAY-2010 21:48:25	Bright	50.000	86	35Eta Oph	2.4300	10200.	100	43112	No
296	GOM_NL__2PRFIN20100529_215019_000000442089_00473_43112_2227.N1	29-MAY-2010 21:50:19	Bright	43.500	98	13Zet Oph	2.5710	30000.	87	43112	No
297	GOM_NL__2PRFIN20100529_215232_000000412089_00473_43112_2228.N1	29-MAY-2010 21:52:32	Bright	41.000	120	1Del Oph	2.7340	3200.0	82	43112	No
298	GOM_NL__2PRFIN20100529_215533_000000382089_00473_43112_2229.N1	29-MAY-2010 21:55:33	Bright	37.500	102	24Alp Ser	2.6000	4250.0	75	43112	No
299	GOM_NL__2PRFIN20100529_220131_000000402089_00473_43112_2230.N1	29-MAY-2010 22:01:31	Bright	40.000	67	5Alp CrB	2.2210	11000.	80	43112	No
300	GOM_NL__2PRFIN20100529_220424_000000452089_00473_43112_2231.N1	29-MAY-2010 22:04:24	Bright	44.500	133	40Zet Her	2.8070	6000.0	89	43112	No
301	GOM_NL__2PRFIN20100529_221212_000000422089_00473_43112_2232.N1	29-MAY-2010 22:12:12	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	43112	No
302	GOM_NL__2PRFIN20100529_222246_000000472089_00473_43112_2233.N1	29-MAY-2010 22:22:46	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	43112	No
303	GOM_NL__2PRFIN20100529_222729_000000432089_00473_43112_2234.N1	29-MAY-2010 22:27:29	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	43112	No
304	GOM_NL__2PRFIN20100529_223508_000000562089_00473_43112_2235.N1	29-MAY-2010 22:35:08	Bright	56.000	53	43Bet And	2.0480	3300.0	112	43112	No
305	GOM_NL__2PRFIN20100529_223746_000000542089_00473_43112_2236.N1	29-MAY-2010 22:37:46	Twilight	54.000	58	21Alp And	2.0730	11000.	108	43112	No
306	GOM_NL__2PRFIN20100529_224234_000000512089_00473_43112_2237.N1	29-MAY-2010 22:42:34	Dark	50.500	140	88Gam Peg	2.8340	26000.	101	43112	No
307	GOM_NL__2PRFIN20100529_225130_000000472089_00473_43112_2238.N1	29-MAY-2010 22:51:30	Dark	47.000	52	16Bet Cet	2.0370	4500.0	94	43112	No
308	GOM_NL__2PRFIN20100529_225951_000000512089_00473_43112_2239.N1	29-MAY-2010 22:59:51	Dark	50.500	18	24Alp PsA	1.1660	9700.0	101	43112	No
309	GOM_NL__2PRFIN20100529_230323_000000612089_00474_43113_2225.N1	29-MAY-2010 23:03:23	Dark	61.000	63	Bet Gru	2.1500	2800.0	122	43113	No
310	GOM_NL__2PRFIN20100529_230513_000000452089_00474_43113_2226.N1	29-MAY-2010 23:05:13	Dark	45.000	31	Alp Gru	1.7340	15200.	90	43113	No
311	GOM_NL__2PRFIN20100529_231019_000000452089_00474_43113_2227.N1	29-MAY-2010 23:10:19	Twilight	44.500	45	Alp Pav	1.9400	26000.	89	43113	No
312	GOM_NL__2PRFIN20100529_231754_000000422089_00474_43113_2228.N1	29-MAY-2010 23:17:54	Twilight	42.000	147	Alp Ara	2.8770	26000.	84	43113	No
313	GOM_NL__2PRFIN20100529_231935_000000522089_00474_43113_2229.N1	29-MAY-2010 23:19:35	Twilight	51.500	40	The Sco	1.8590	7100.0	103	43113	No
314	GOM_NL__2PRFIN20100529_232124_000000472089_00474_43113_2230.N1	29-MAY-2010 23:21:24	Twilight	47.000	25	35Lam Sco	1.6200	28000.	94	43113	No
315	GOM_NL__2PRFIN20100529_232314_000000462089_00474_43113_2231.N1	29-MAY-2010 23:23:14	Twilight	46.000	75	26Eps Sco	2.2910	4250.0	92	43113	No
316	GOM_NL__2PRFIN20100529_232518_000000442089_00474_43113_2232.N1	29-MAY-2010 23:25:18	Bright	43.500	136	23Tau Sco	2.8220	30000.	87	43113	No
317	GOM_NL__2PRFIN20100529_232725_000000442089_00474_43113_2233.N1	29-MAY-2010 23:27:25	Bright	44.000	80	7Del Sco	2.3160	30000.	88	43113	No
318	GOM_NL__2PRFIN20100529_232901_000000482089_00474_43113_2234.N1	29-MAY-2010 23:29:01	Bright	48.000	86	35Eta Oph	2.4300	10200.	96	43113	No
319	GOM_NL__2PRFIN20100529_233055_000000422089_00474_43113_2235.N1	29-MAY-2010 23:30:55	Bright	42.000	98	13Zet Oph	2.5710	30000.	84	43113	No
320	GOM_NL__2PRFIN20100529_233308_000000412089_00474_43113_2236.N1	29-MAY-2010 23:33:08	Bright	41.000	120	1Del Oph	2.7340	3200.0	82	43113	No
321	GOM_NL__2PRFIN20100529_233609_000000392089_00474_43113_2237.N1	29-MAY-2010 23:36:09	Bright	38.500	102	24Alp Ser	2.6000	4250.0	77	43113	No
322	GOM_NL__2PRFIN20100529_234207_000000392089_00474_43113_2238.N1	29-MAY-2010 23:42:07	Bright	39.000	67	5Alp CrB	2.2210	11000.	78	43113	No
323	GOM_NL__2PRFIN20100529_234459_000000482089_00474_43113_2239.N1	29-MAY-2010 23:44:59	Bright	48.000	133	40Zet Her	2.8070	6000.0	96	43113	No
324	GOM_NL__2PRFIN20100529_235248_000000392089_00474_43113_2240.N1	29-MAY-2010 23:52:48	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	43113	No

### 3. Quality information per product

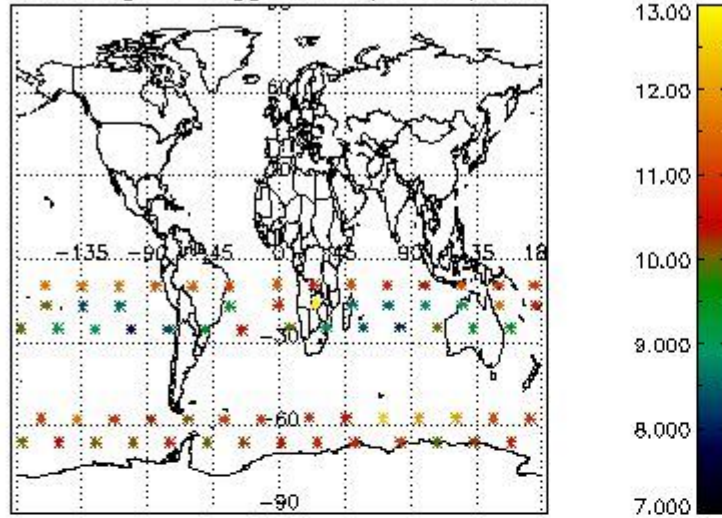
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

#### 3.1 Plot quality information per product (time dependant)

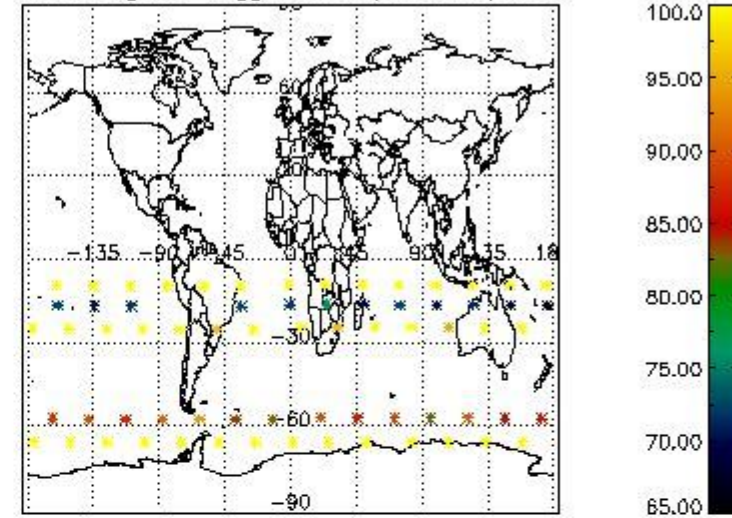


3.2 Plot quality information per product (world map)

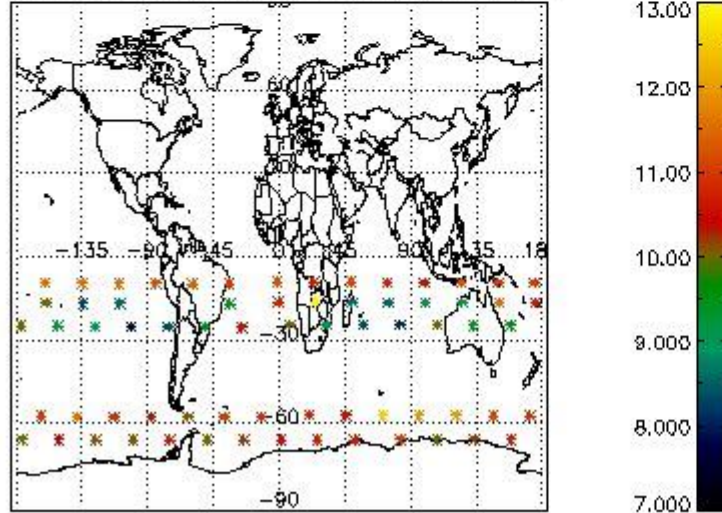
Percentage of flagged data per O3 profile



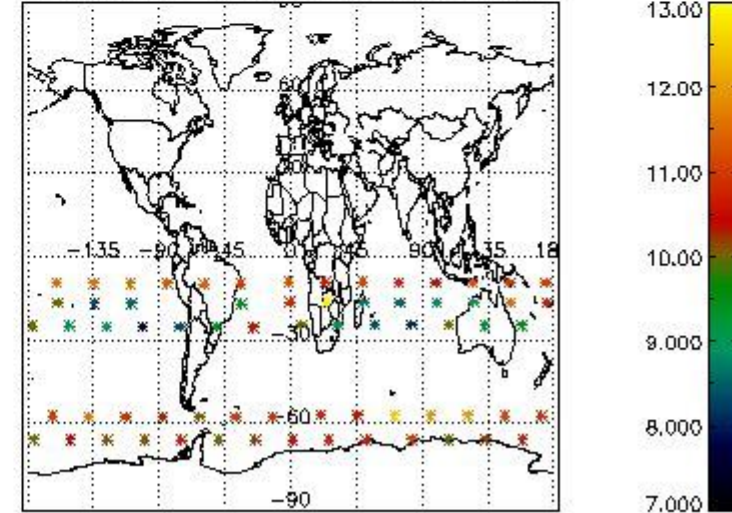
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

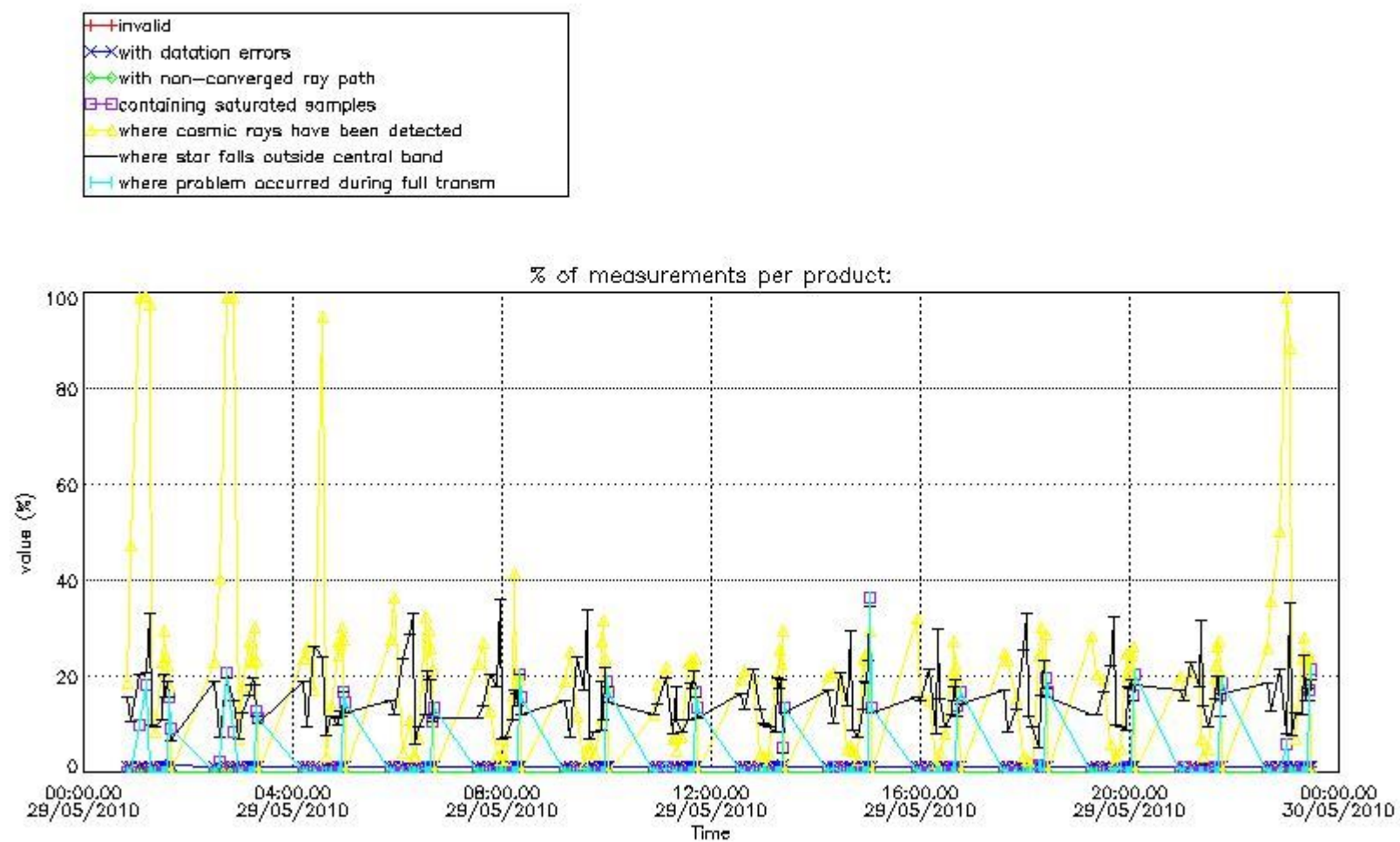


#### 4. Level 1 quality information per product

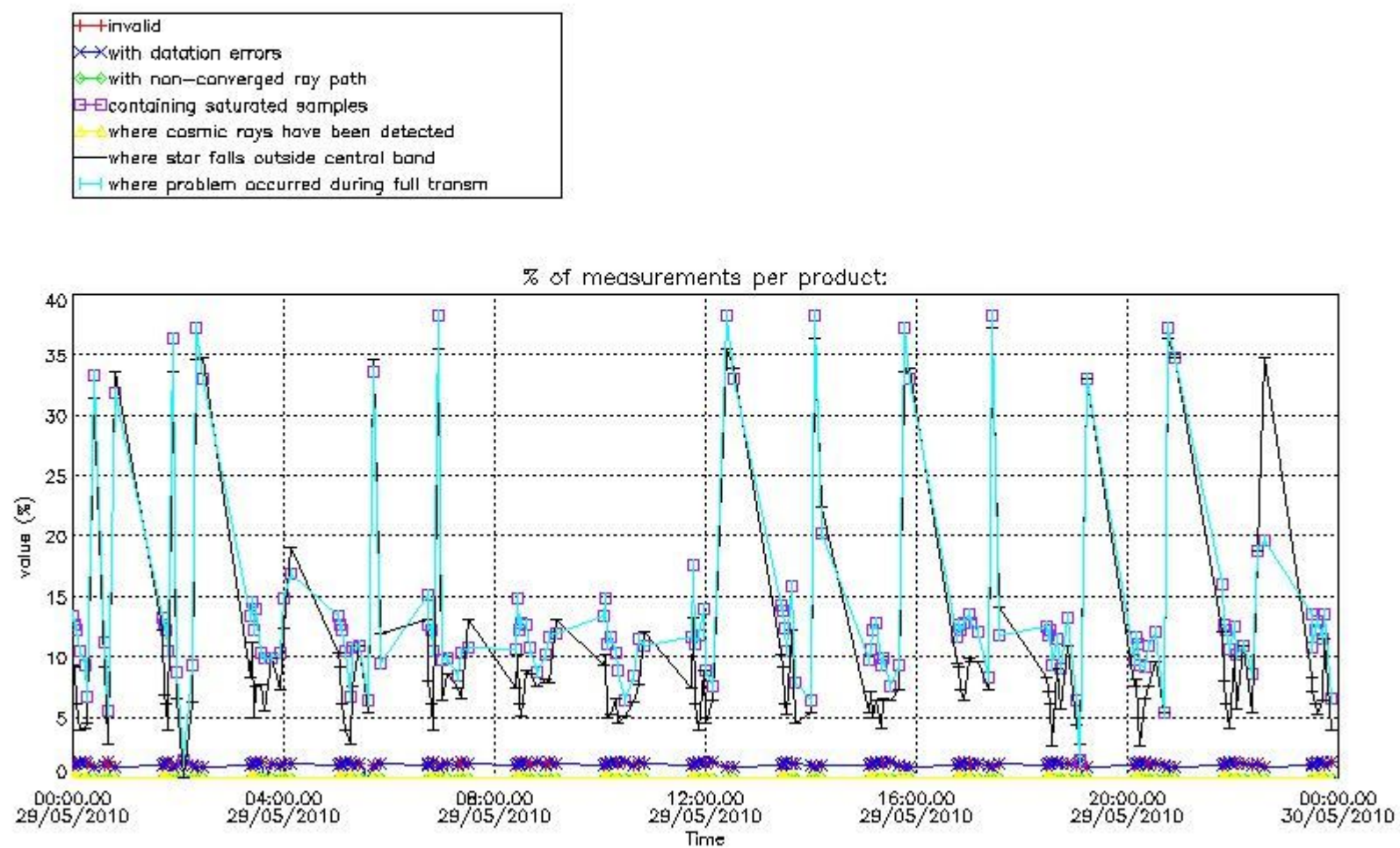
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

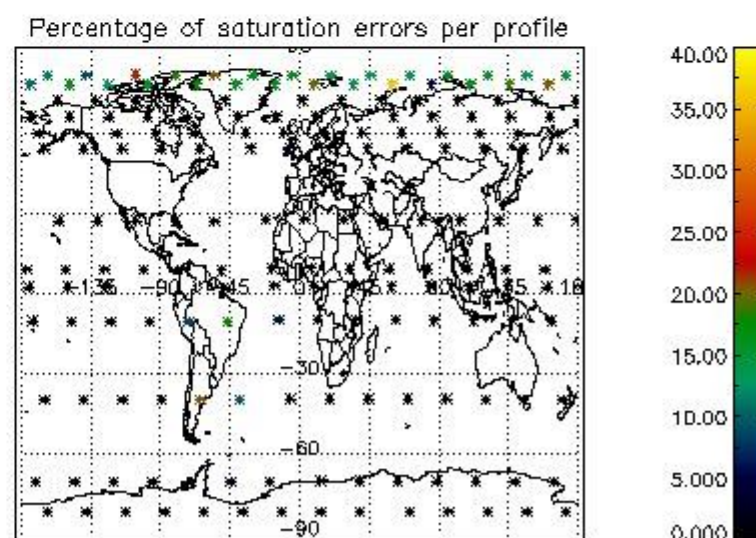
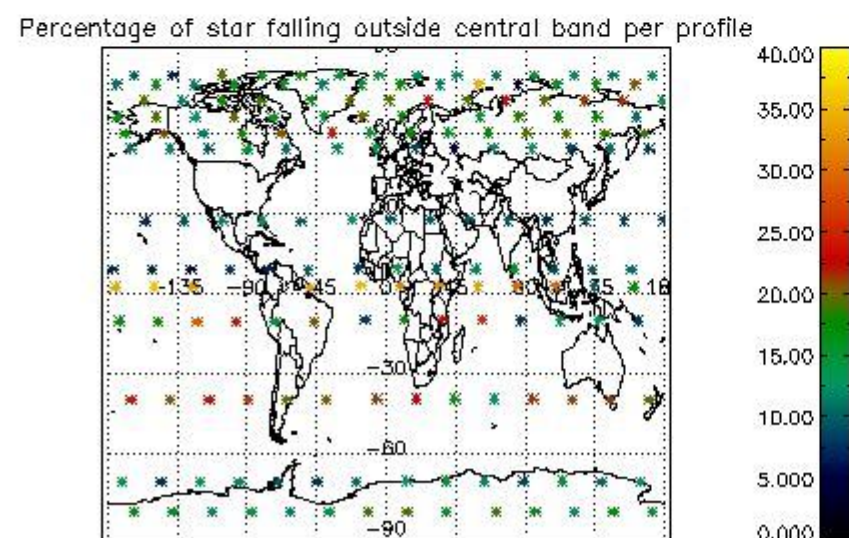
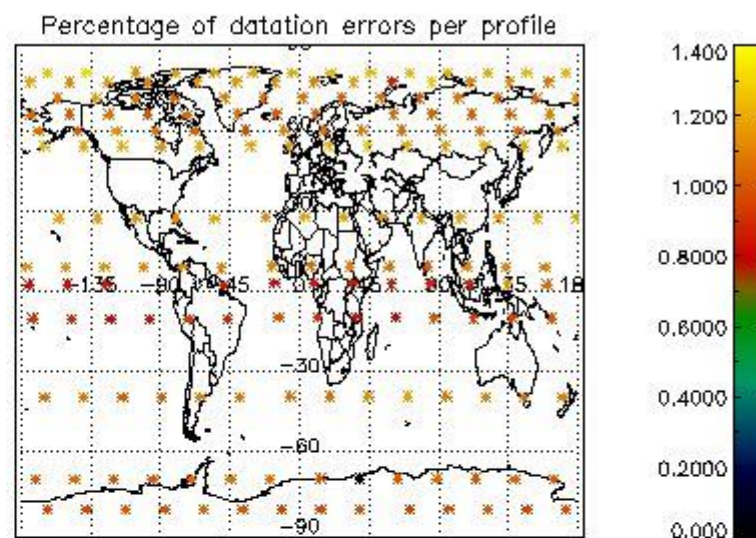
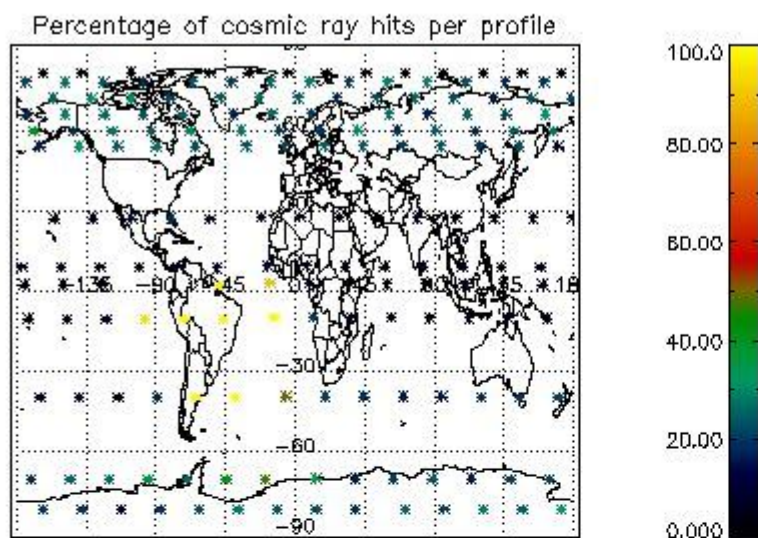


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



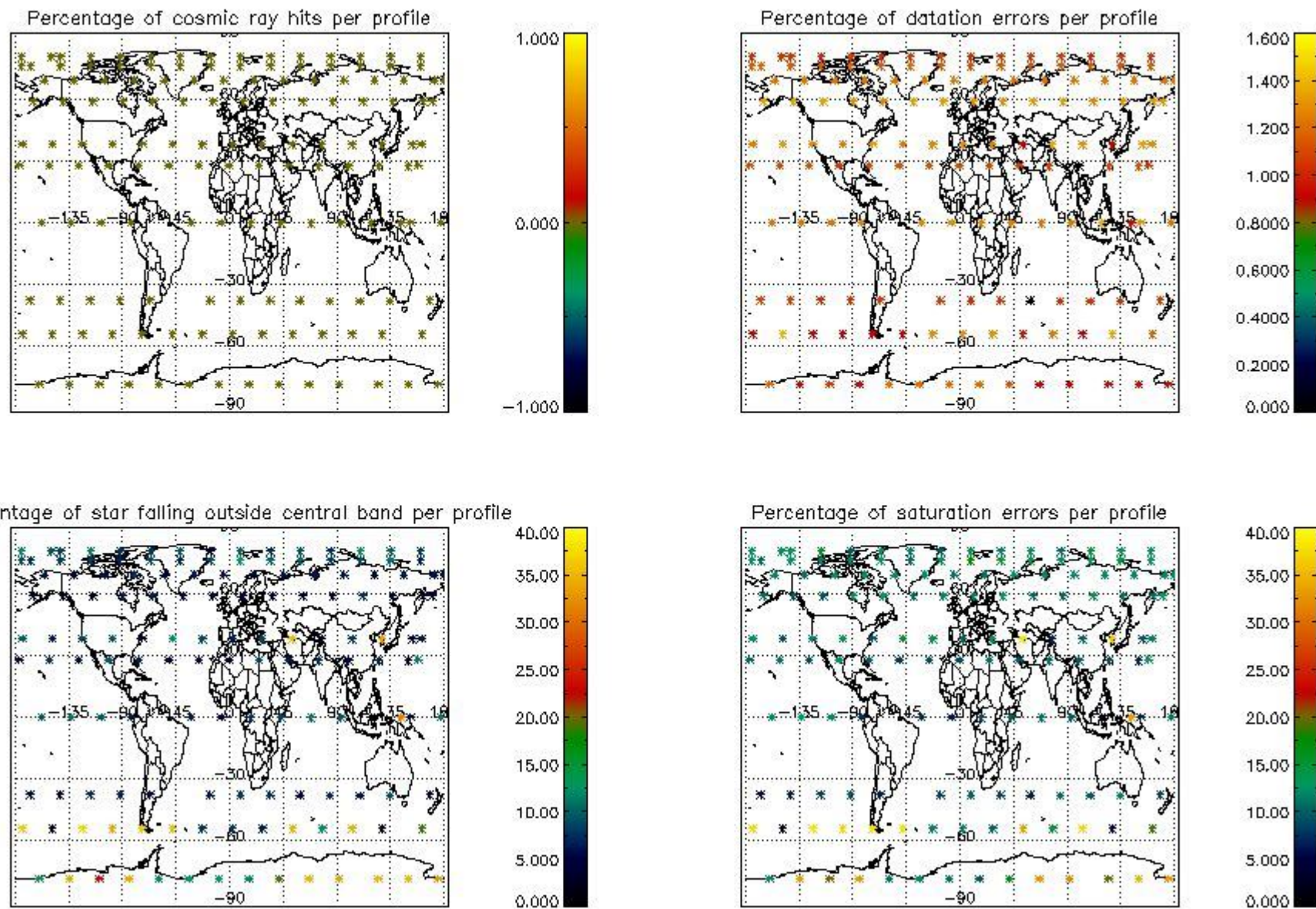
4.2 Plot quality information per product coming from level 1b processing (world map)

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

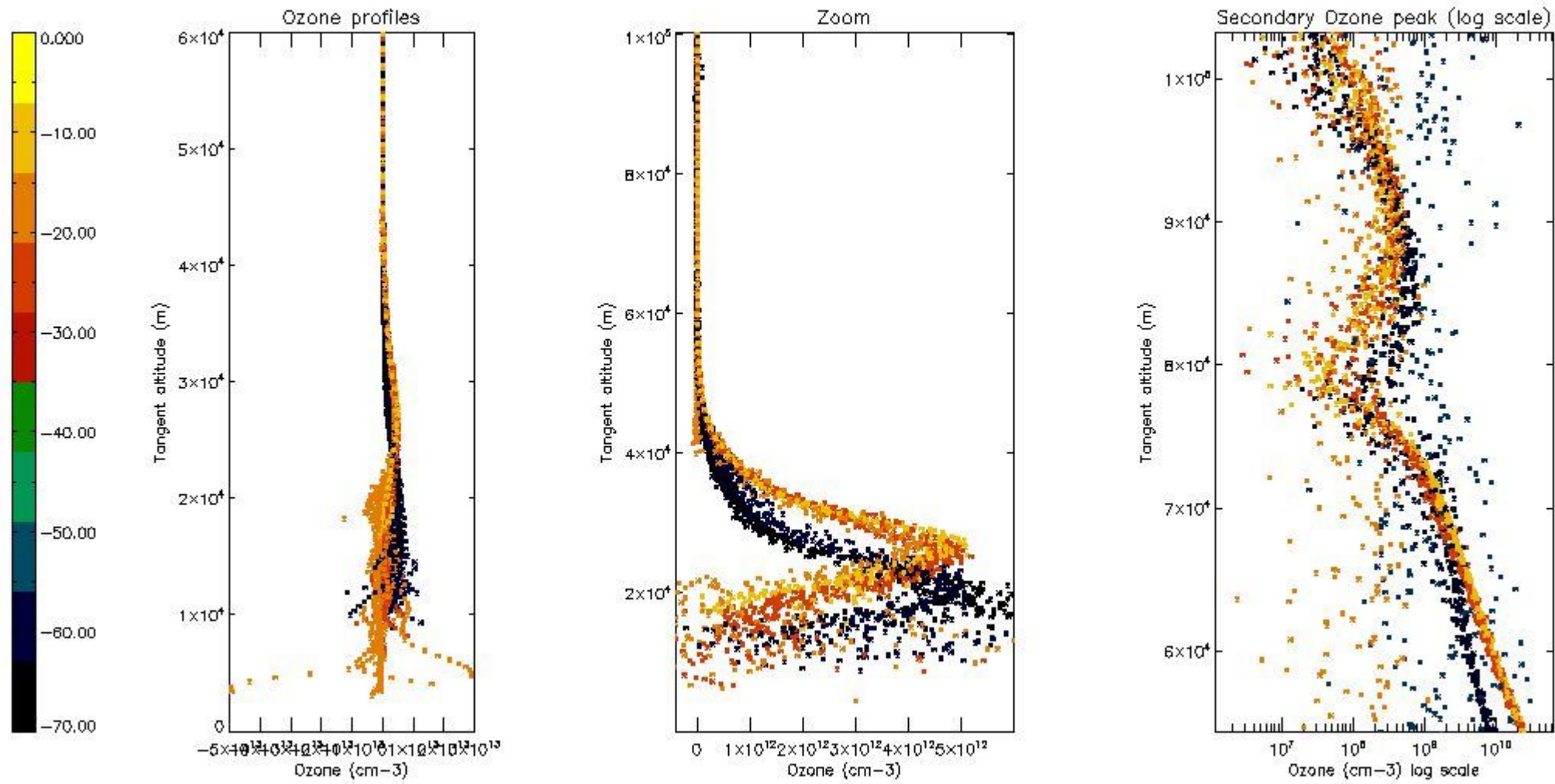
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	24
STD < 20	12

STD < 10	9
STD < 5	6

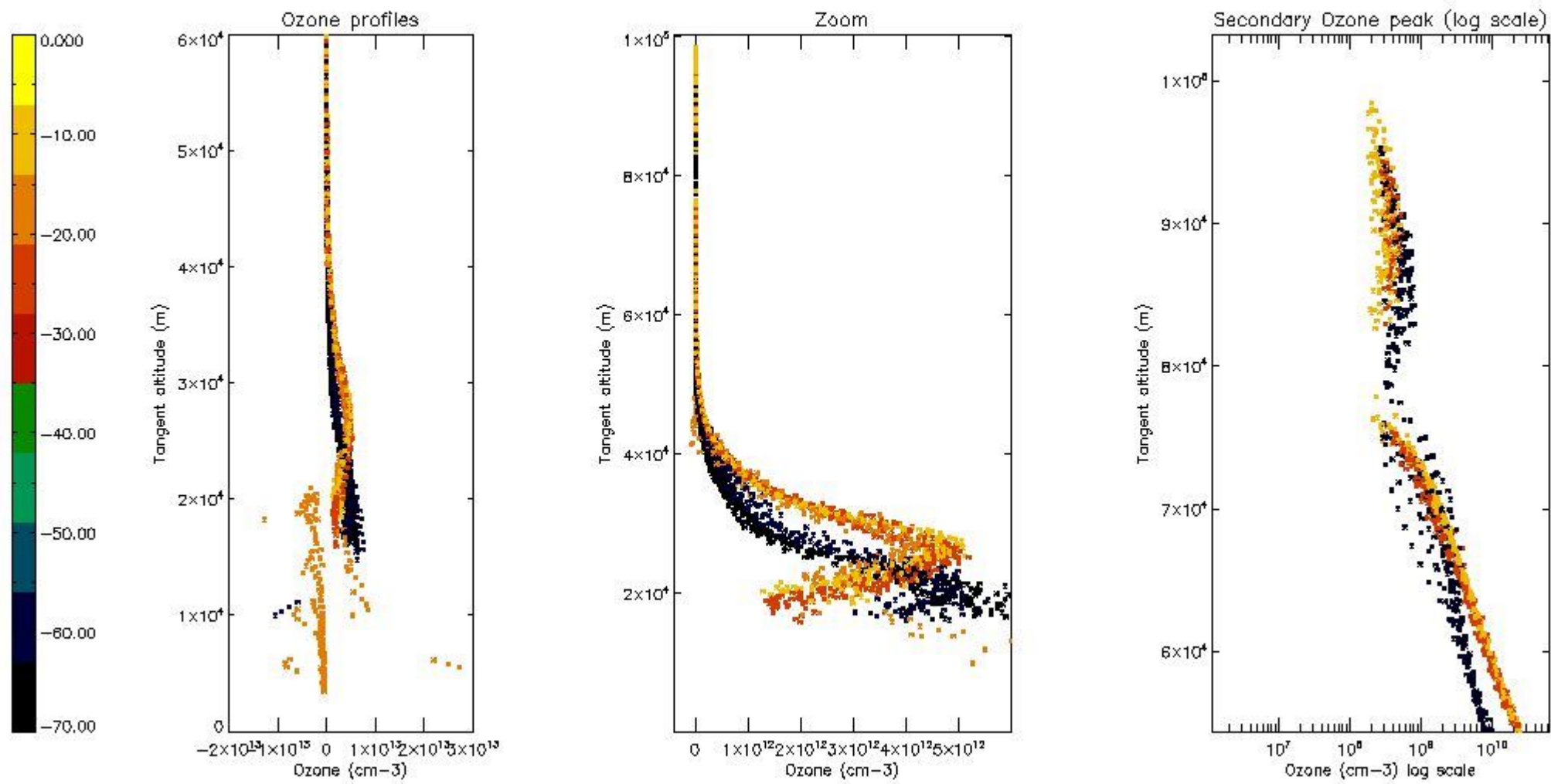
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



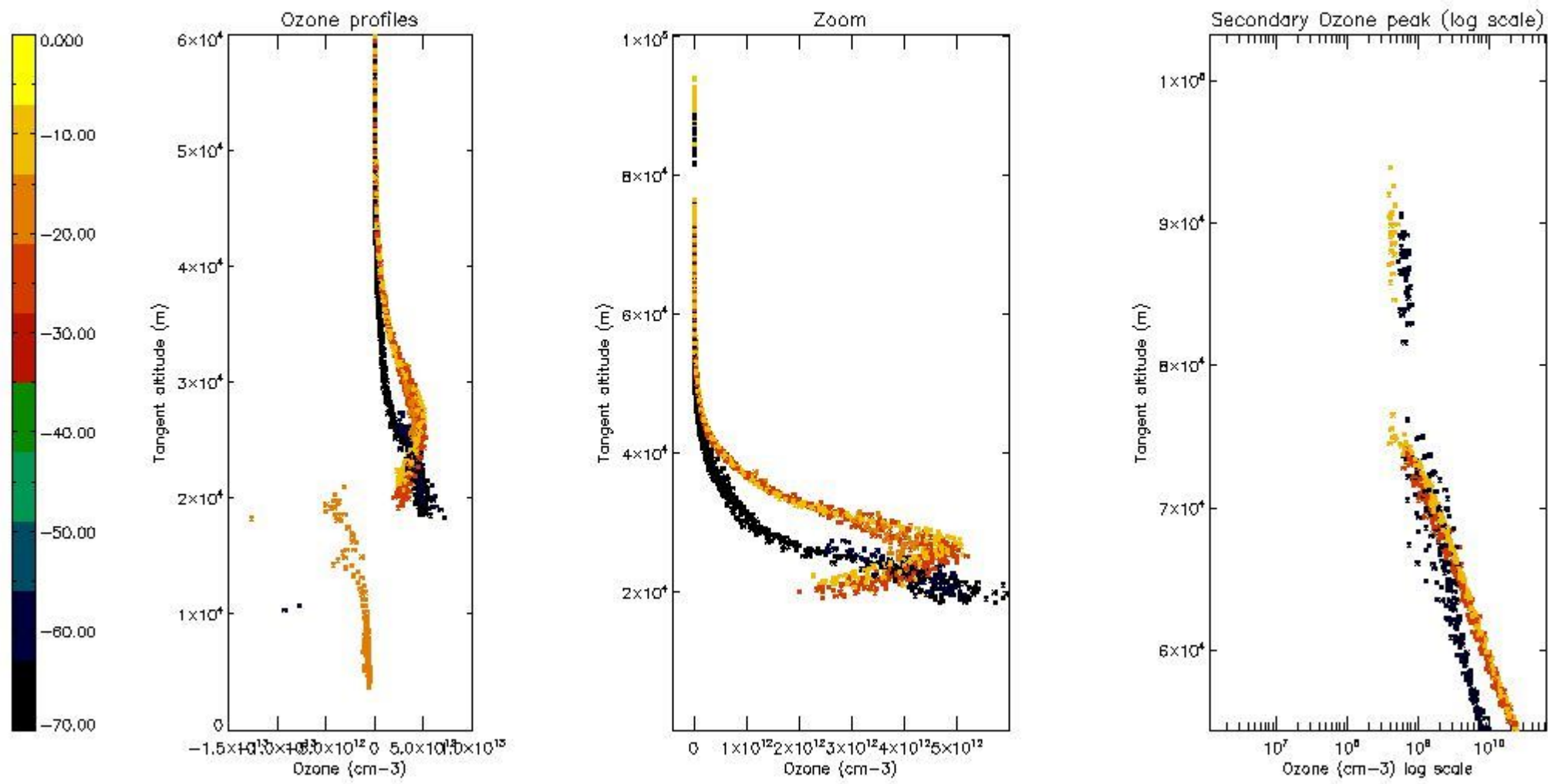
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



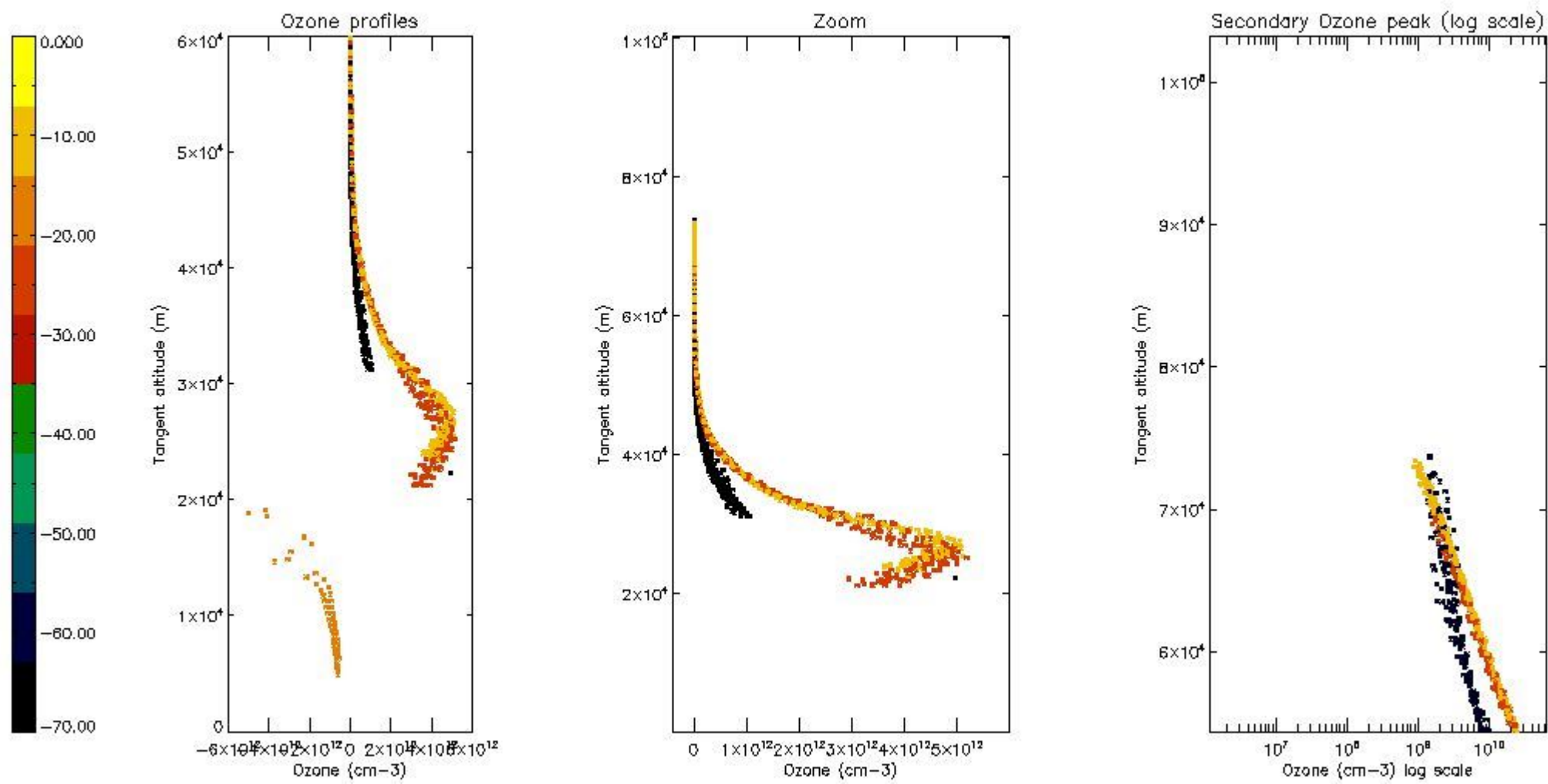
5.4 Plot ozone profiles where  $STD < 10\%$  (dark without errors)

The colorbar represents the latitude.



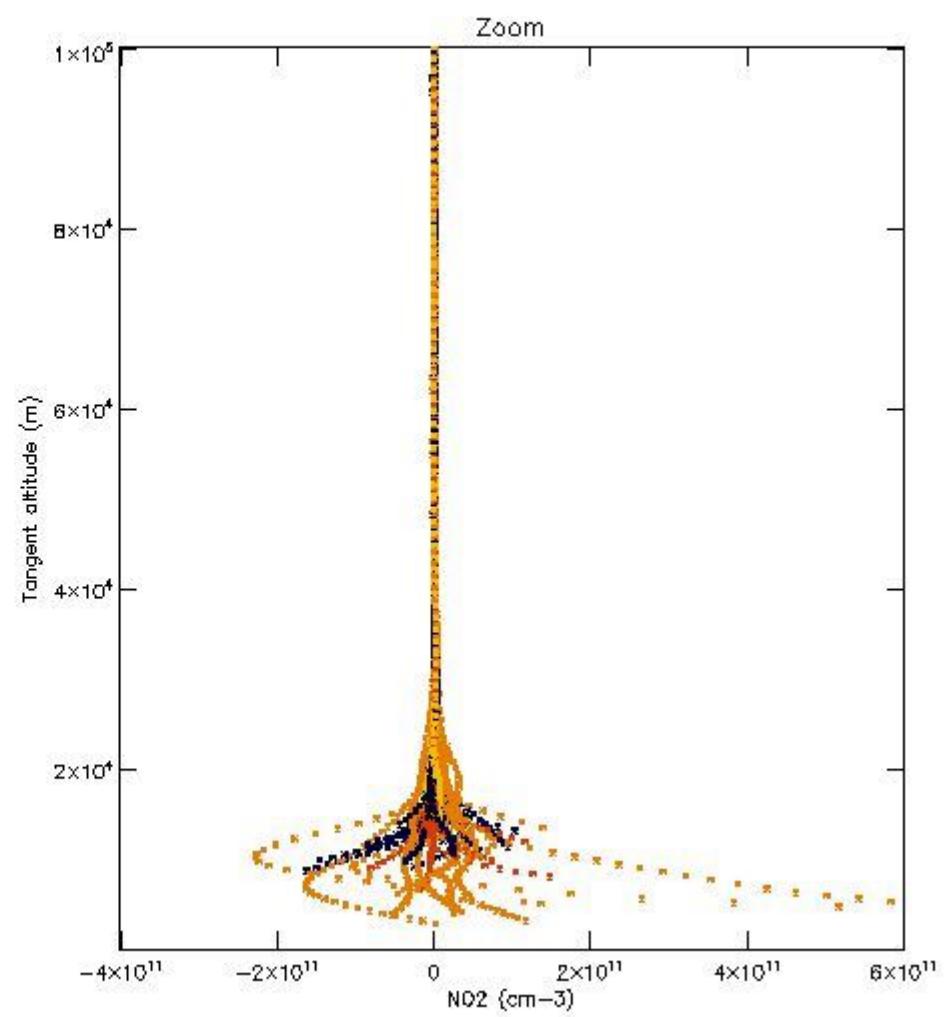
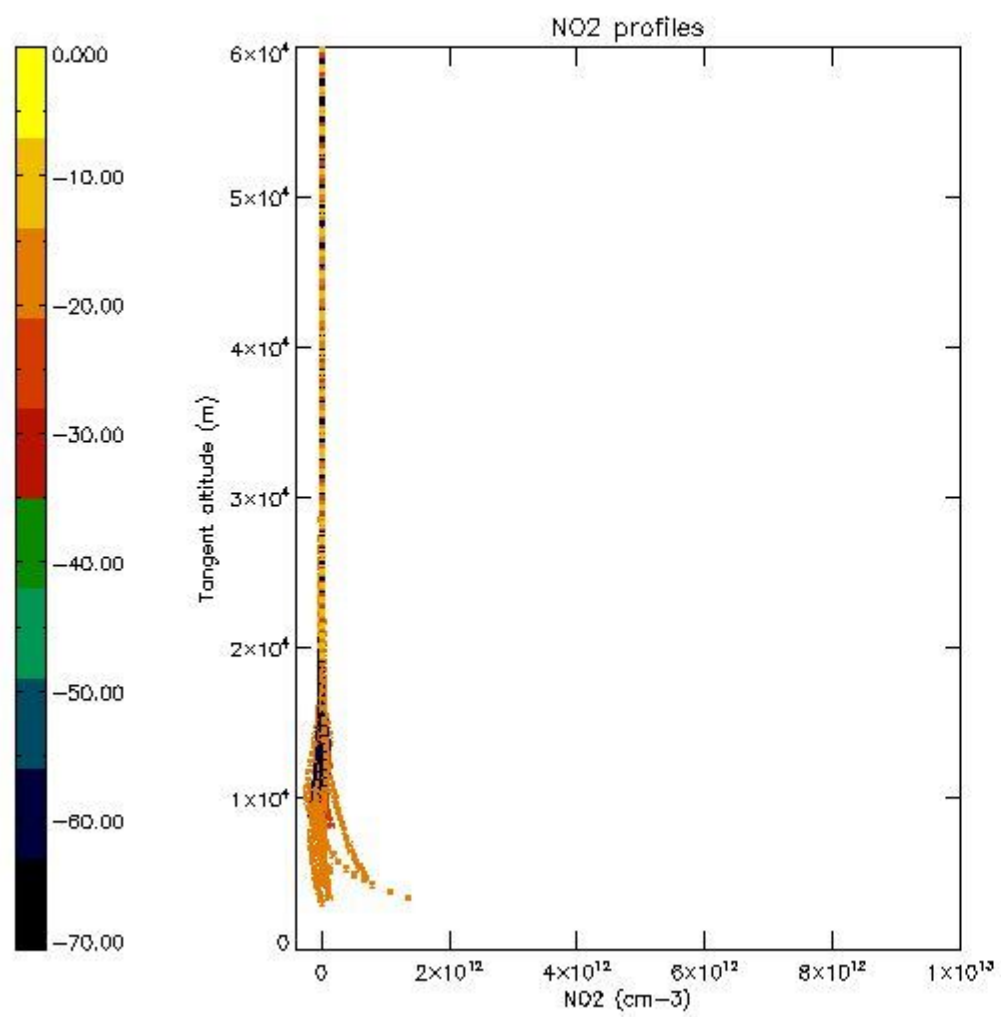
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



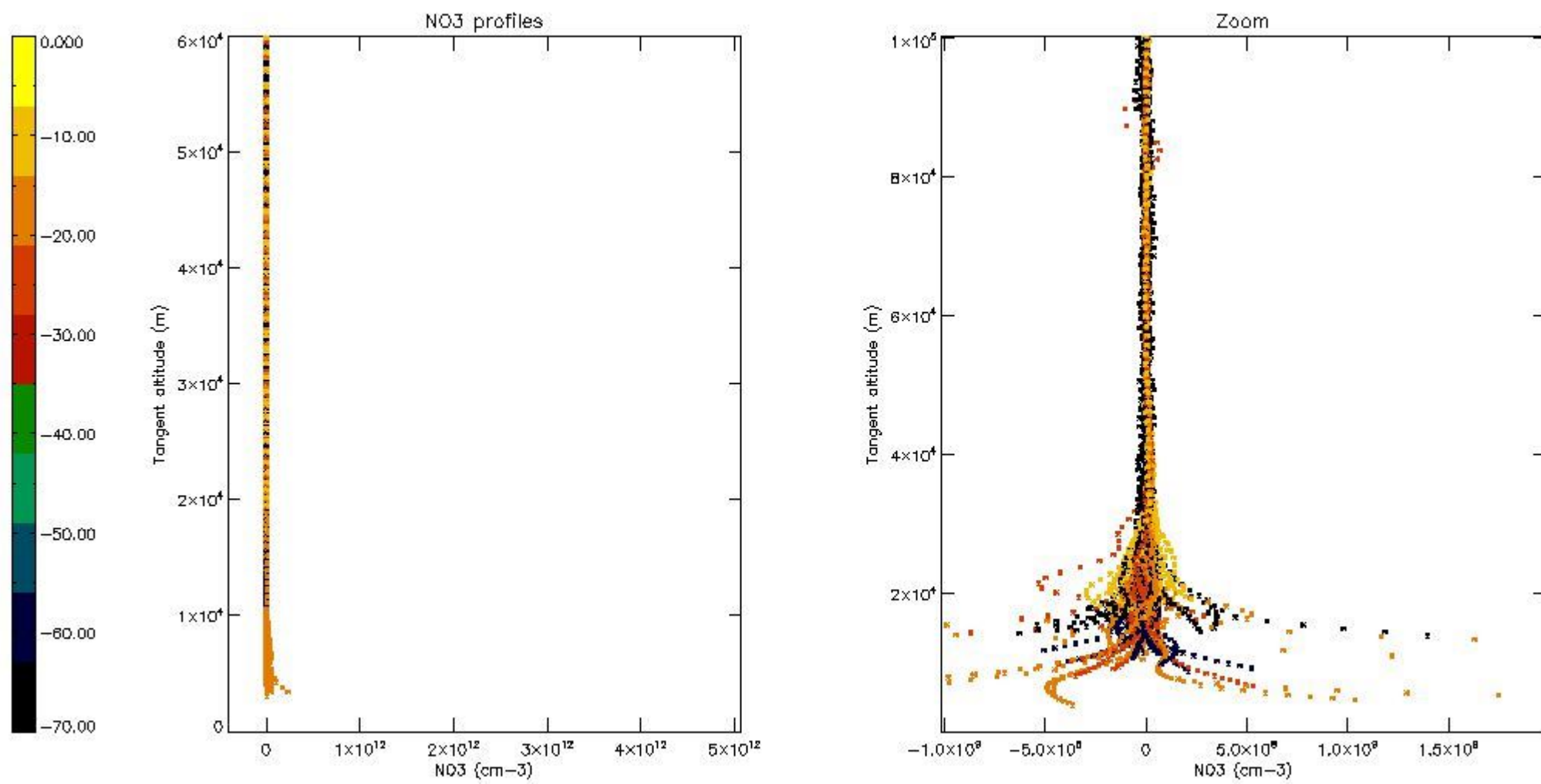
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



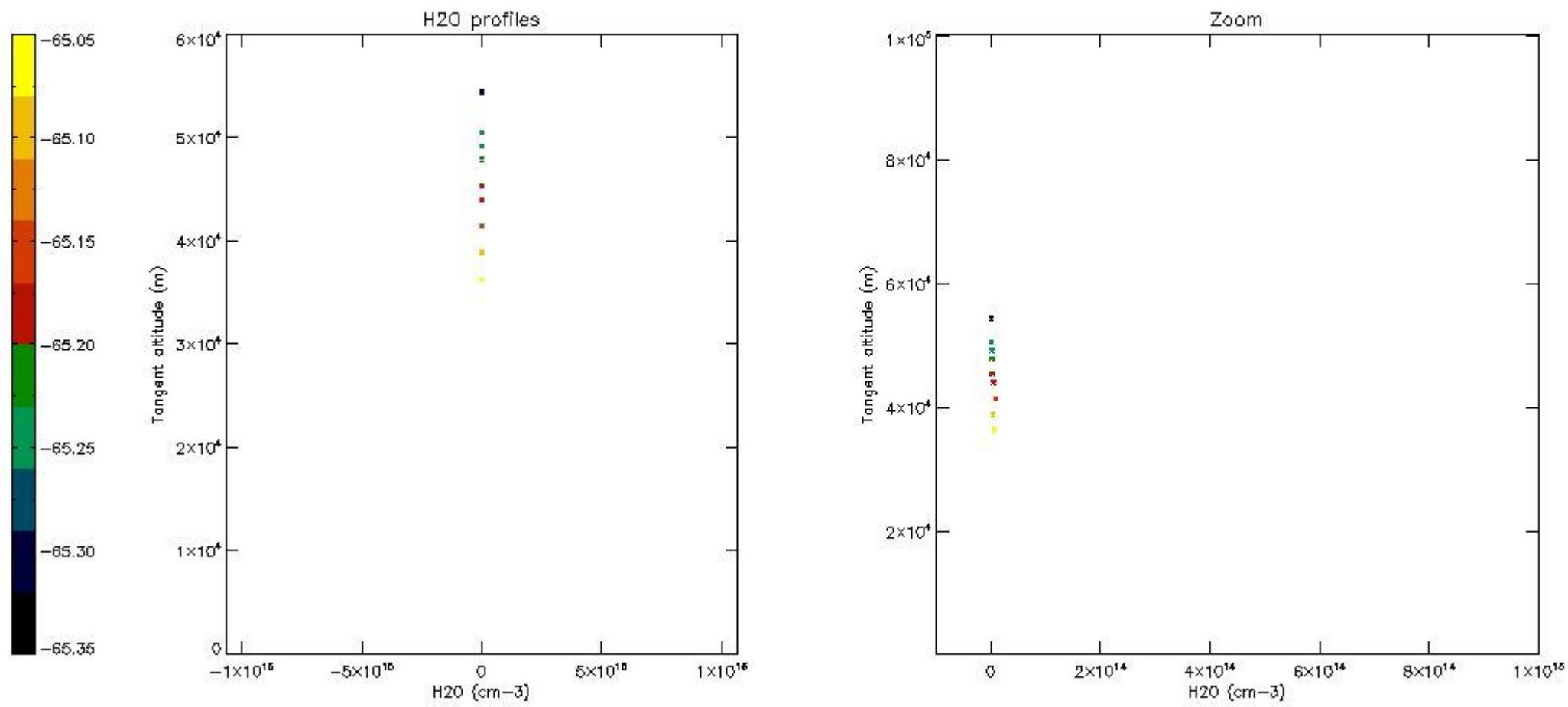
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



5.8 Plot H<sub>2</sub>O 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.

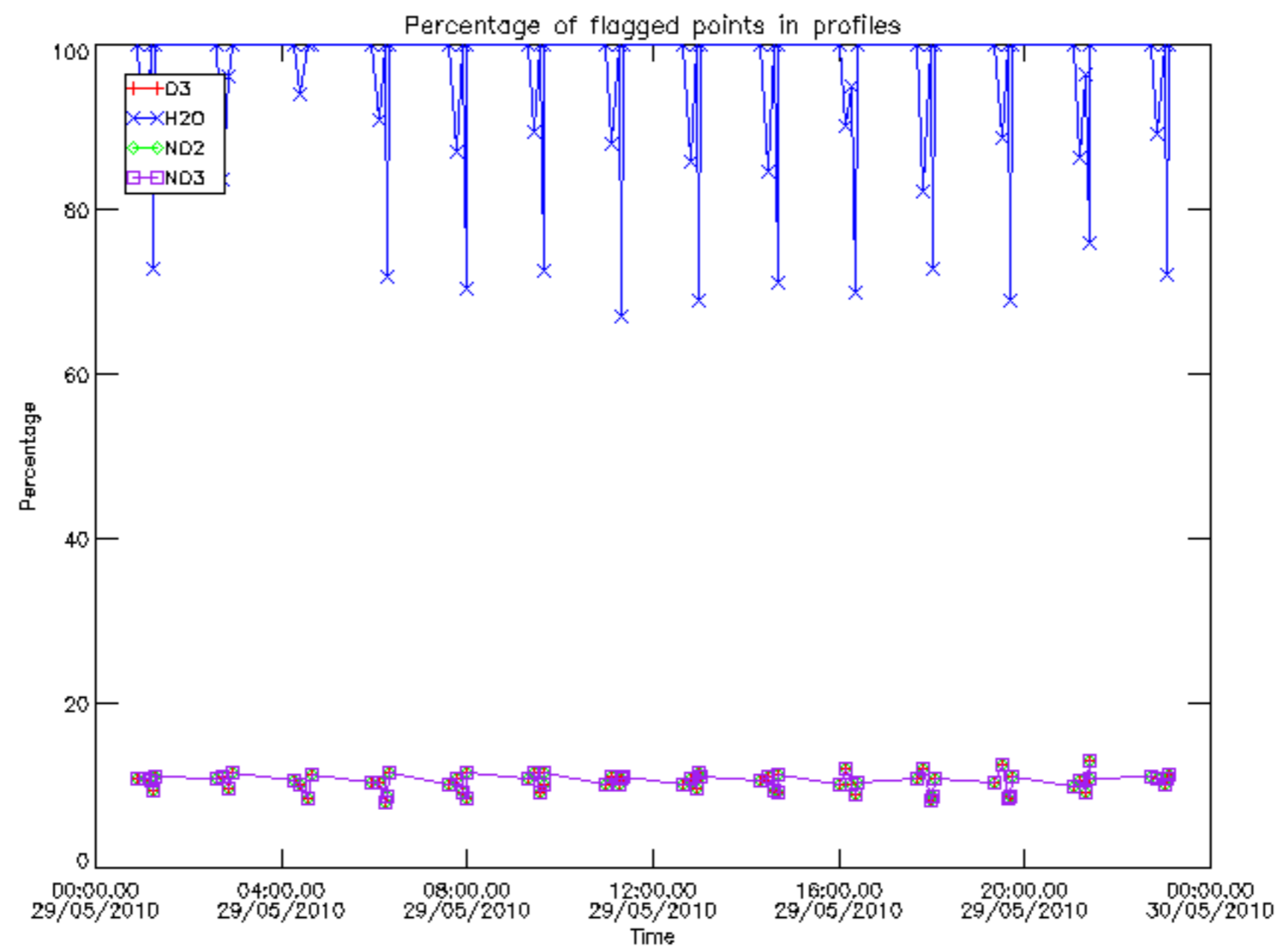


## 6. Auxiliary Data Files used for the production reported in section 2

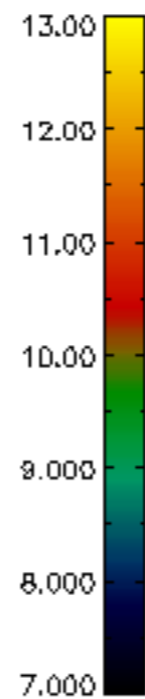
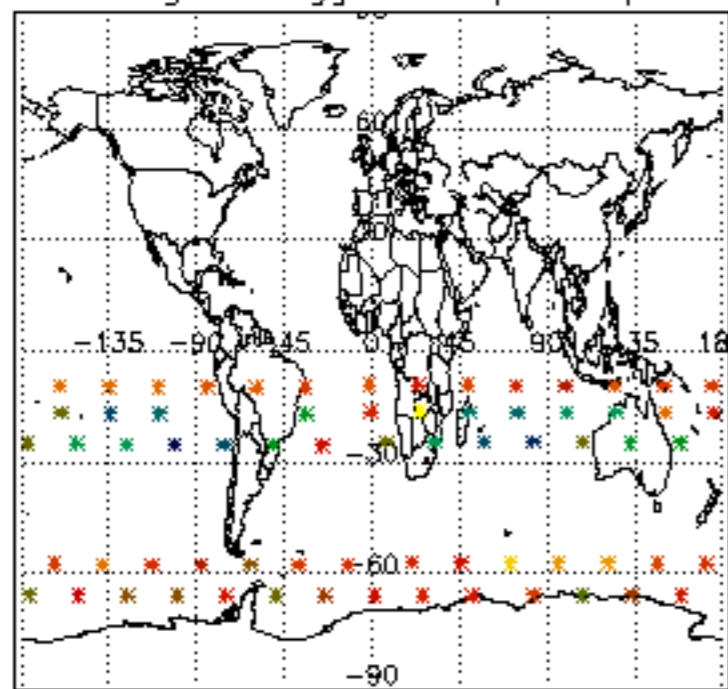
The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	29-MAY-2010 00:00:37
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	29-MAY-2010 00:00:37
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	29-MAY-2010 00:00:37

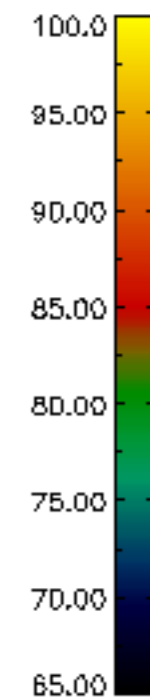
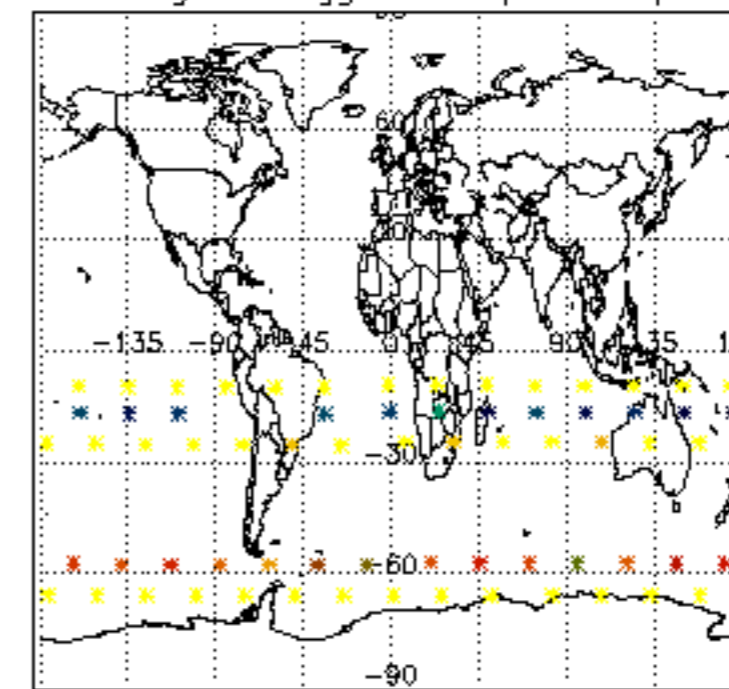




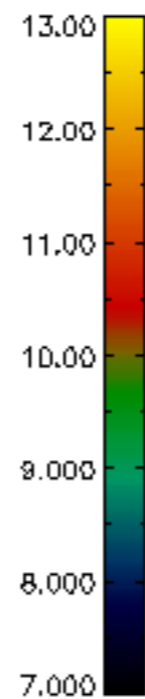
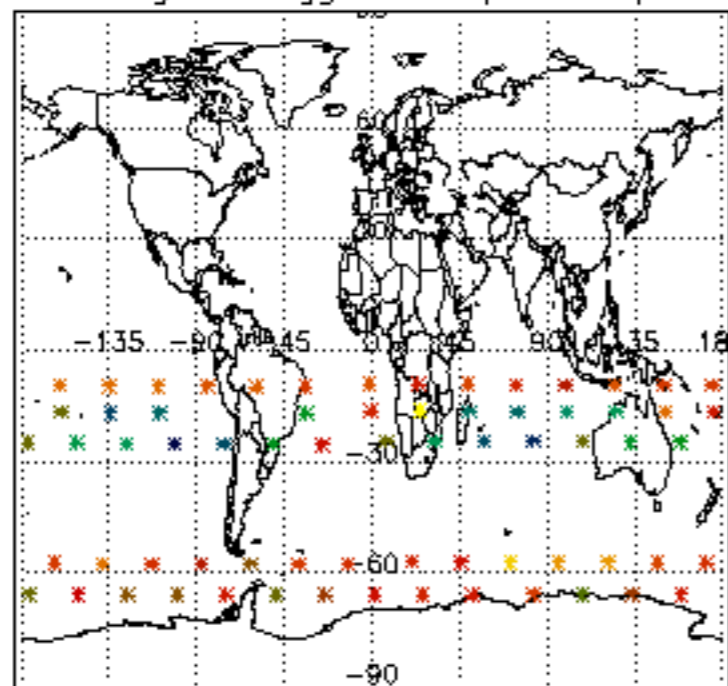
Percentage of flagged data per D3 profile



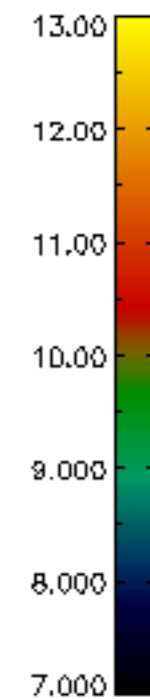
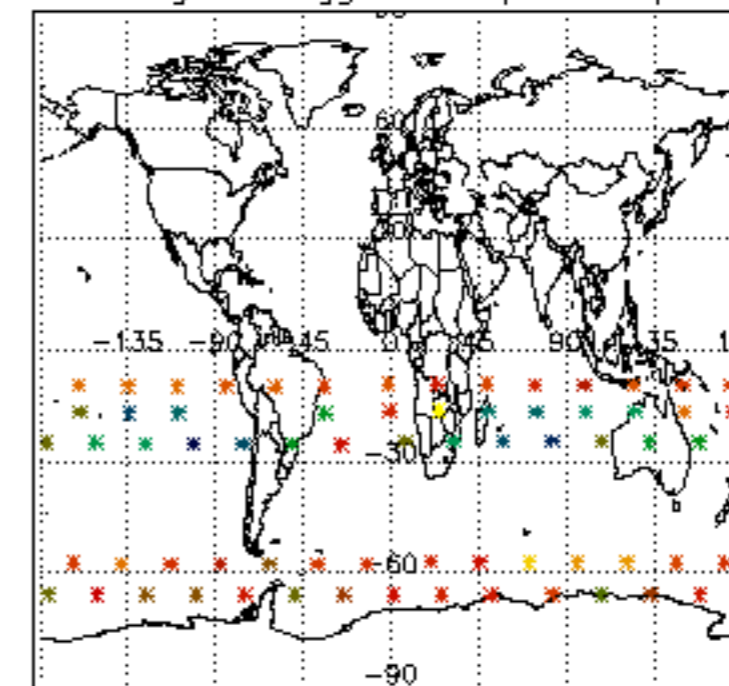
Percentage of flagged data per H2O profile

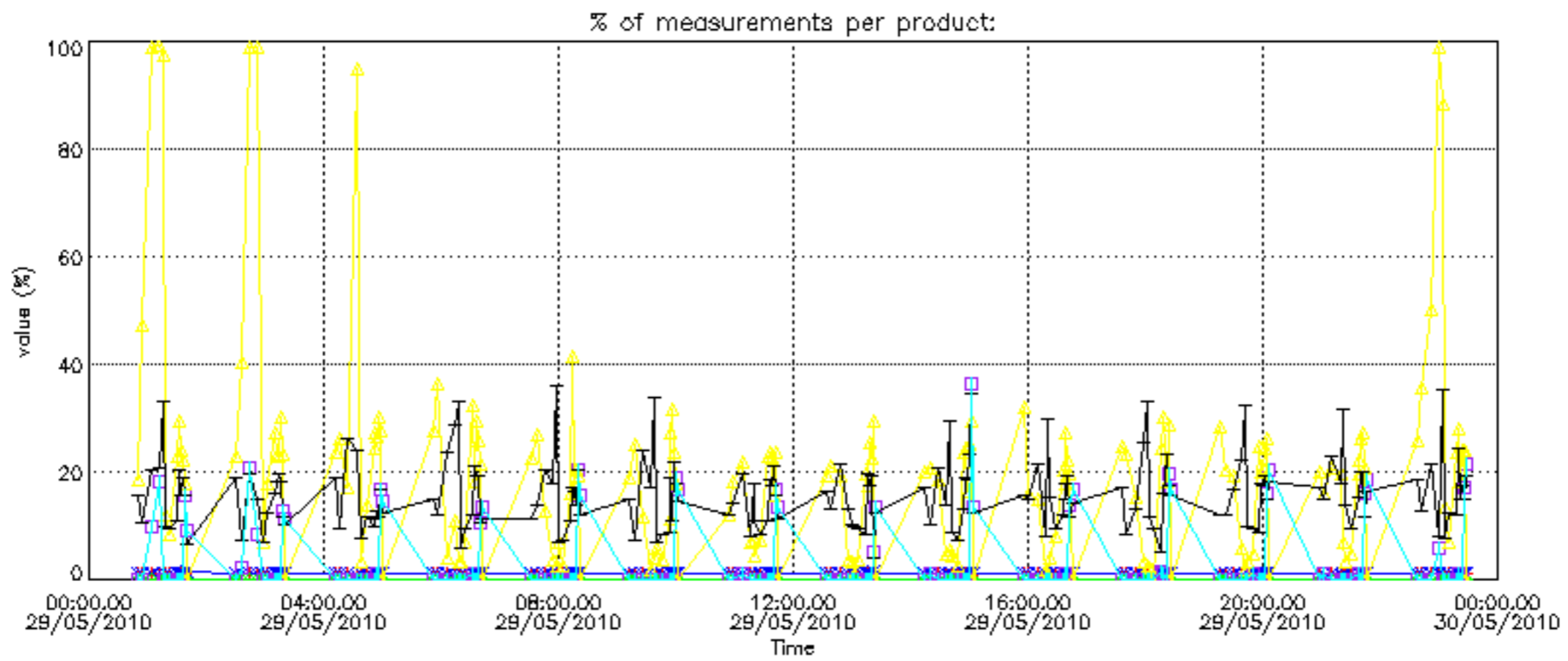


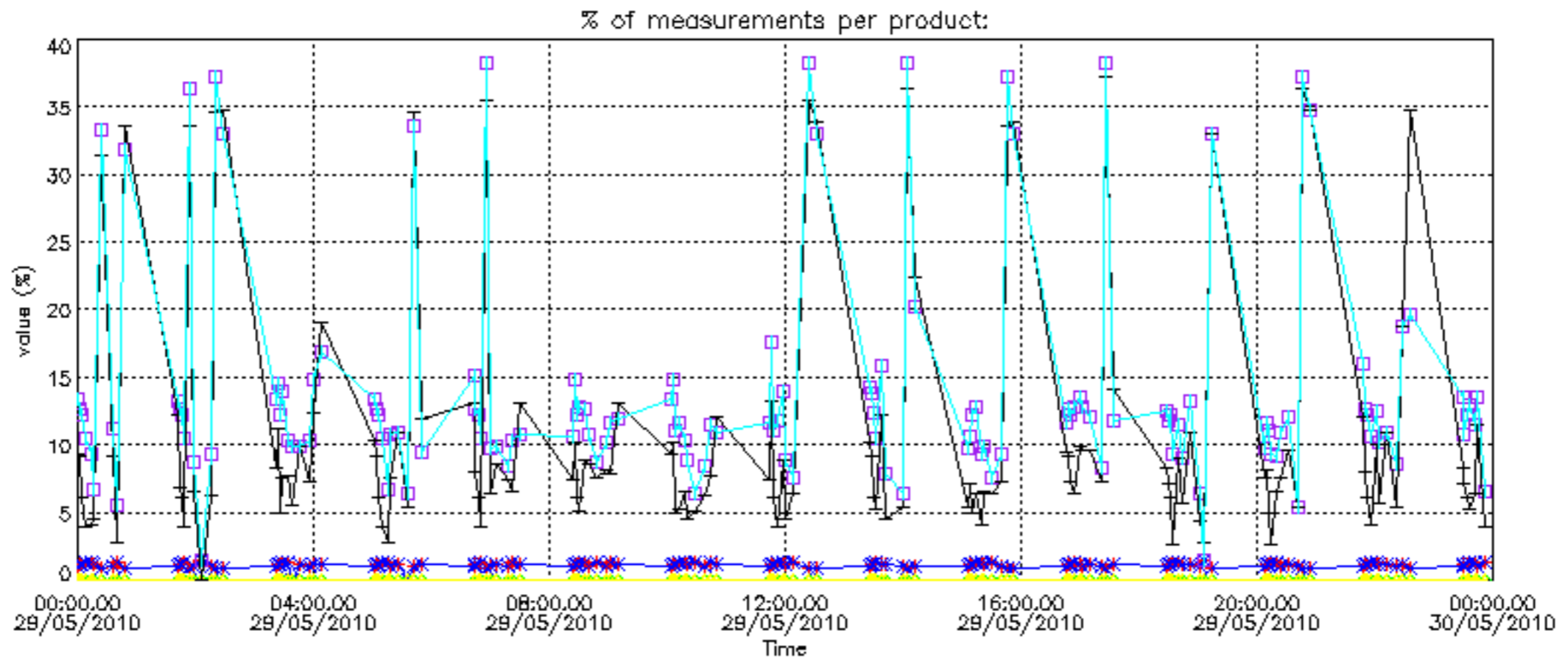
Percentage of flagged data per NO2 profile



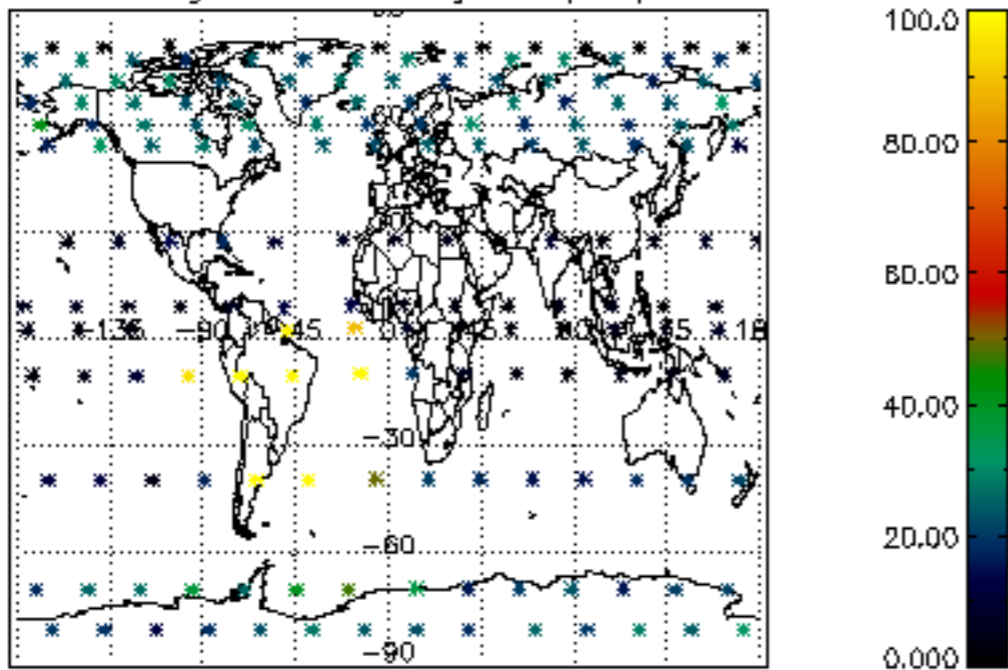
Percentage of flagged data per NO3 profile



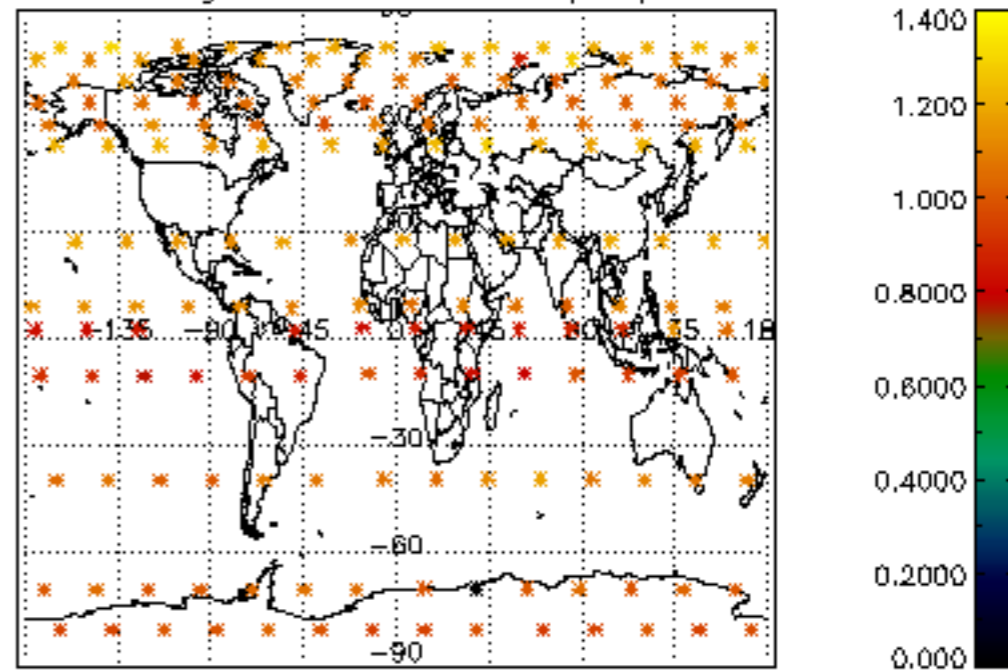




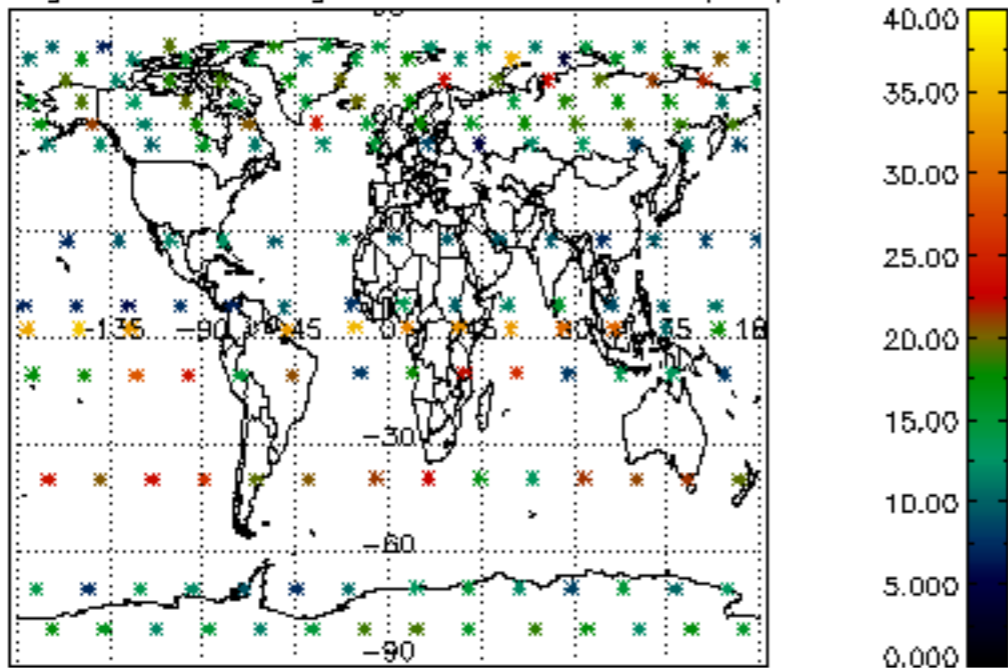
Percentage of cosmic ray hits per profile



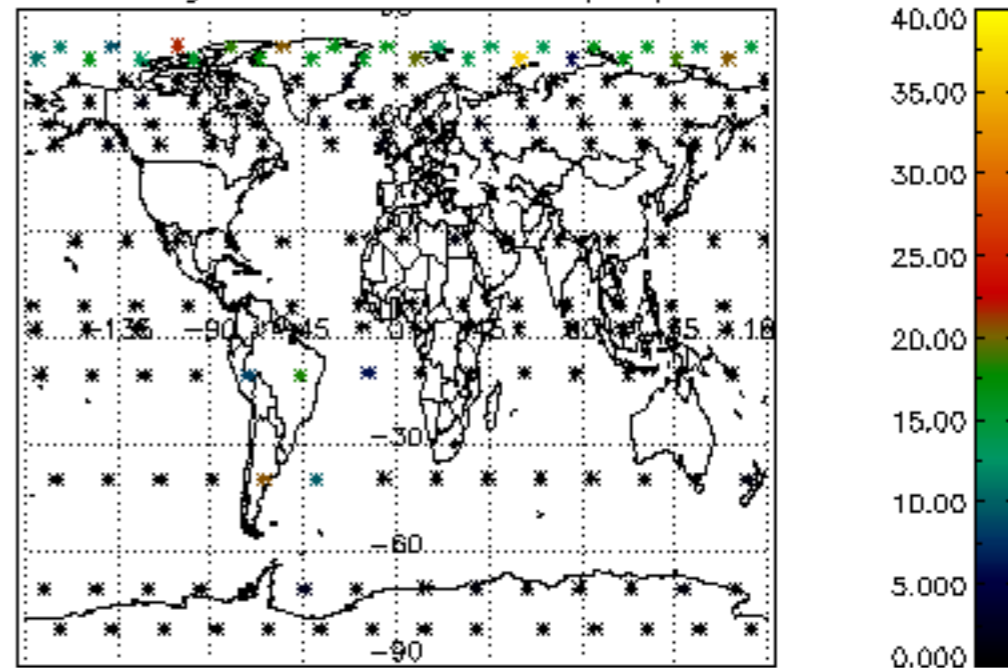
Percentage of datation errors per profile



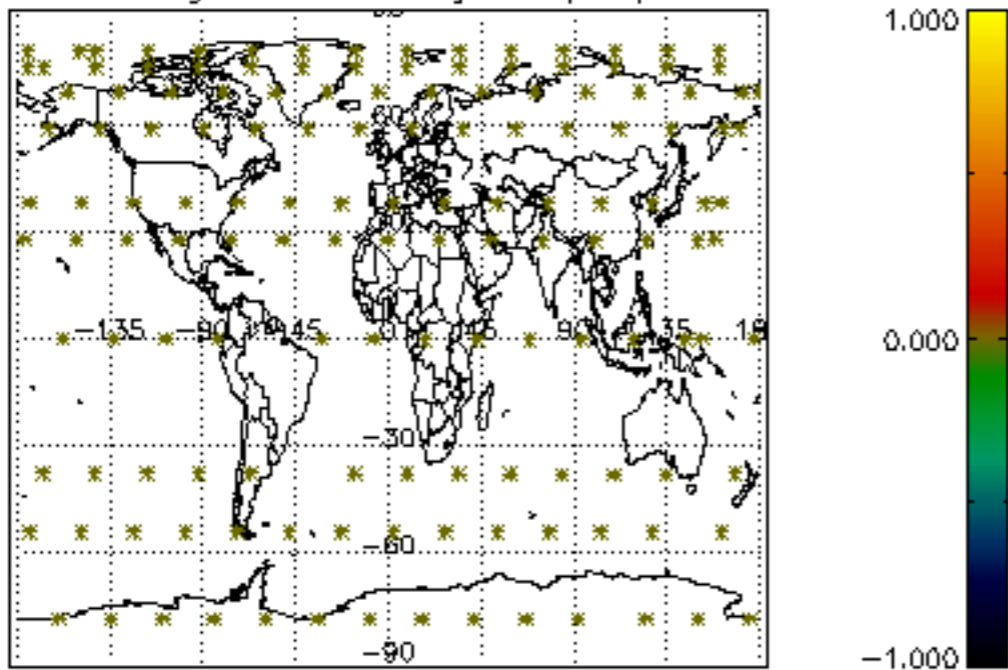
Percentage of star falling outside central band per profile



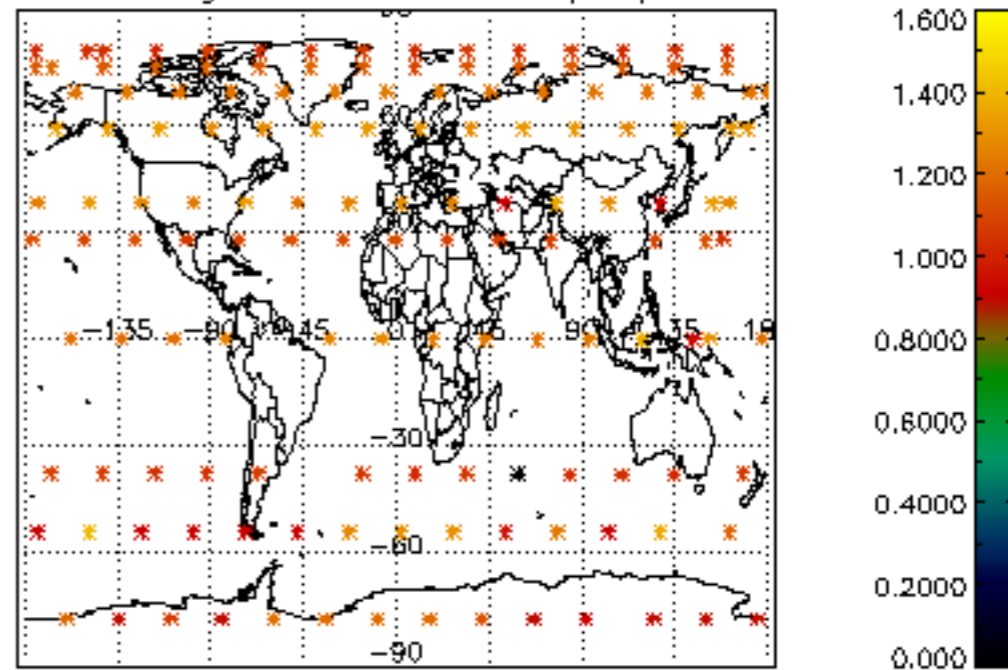
Percentage of saturation errors per profile



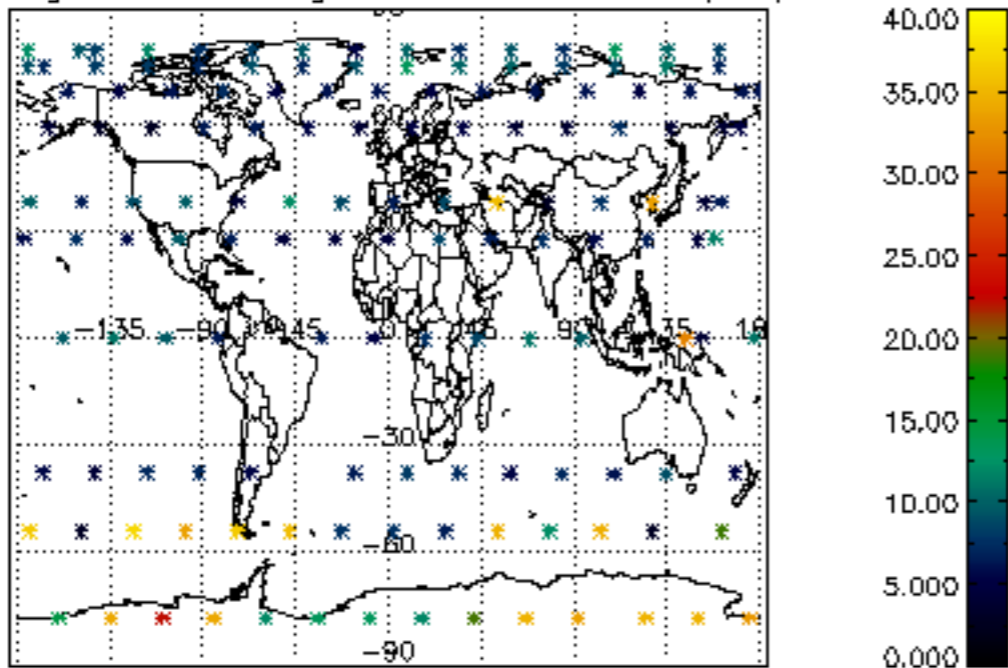
Percentage of cosmic ray hits per profile



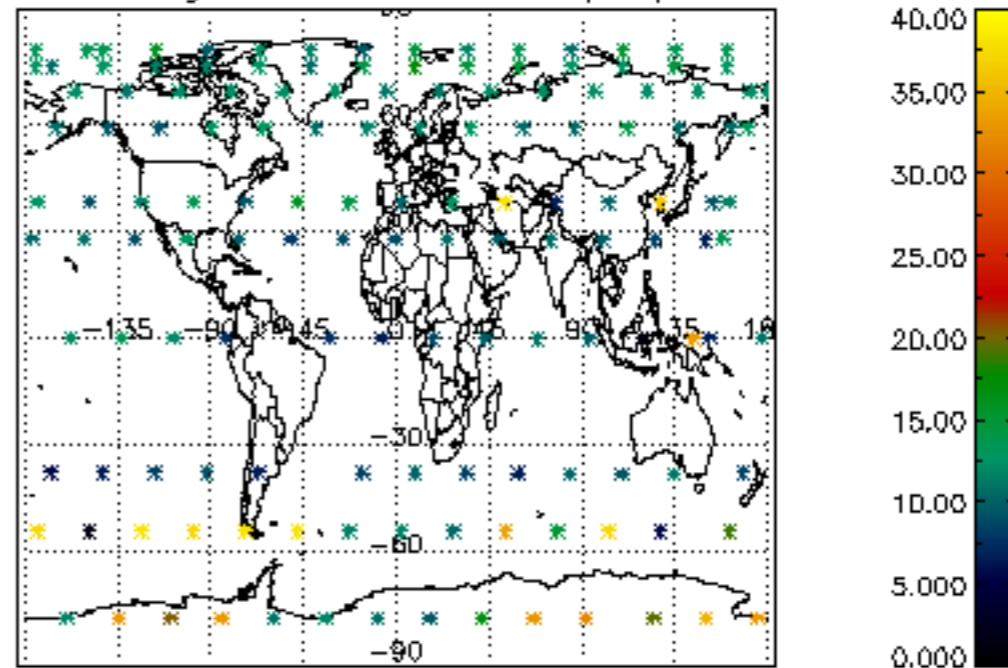
Percentage of datation errors per profile

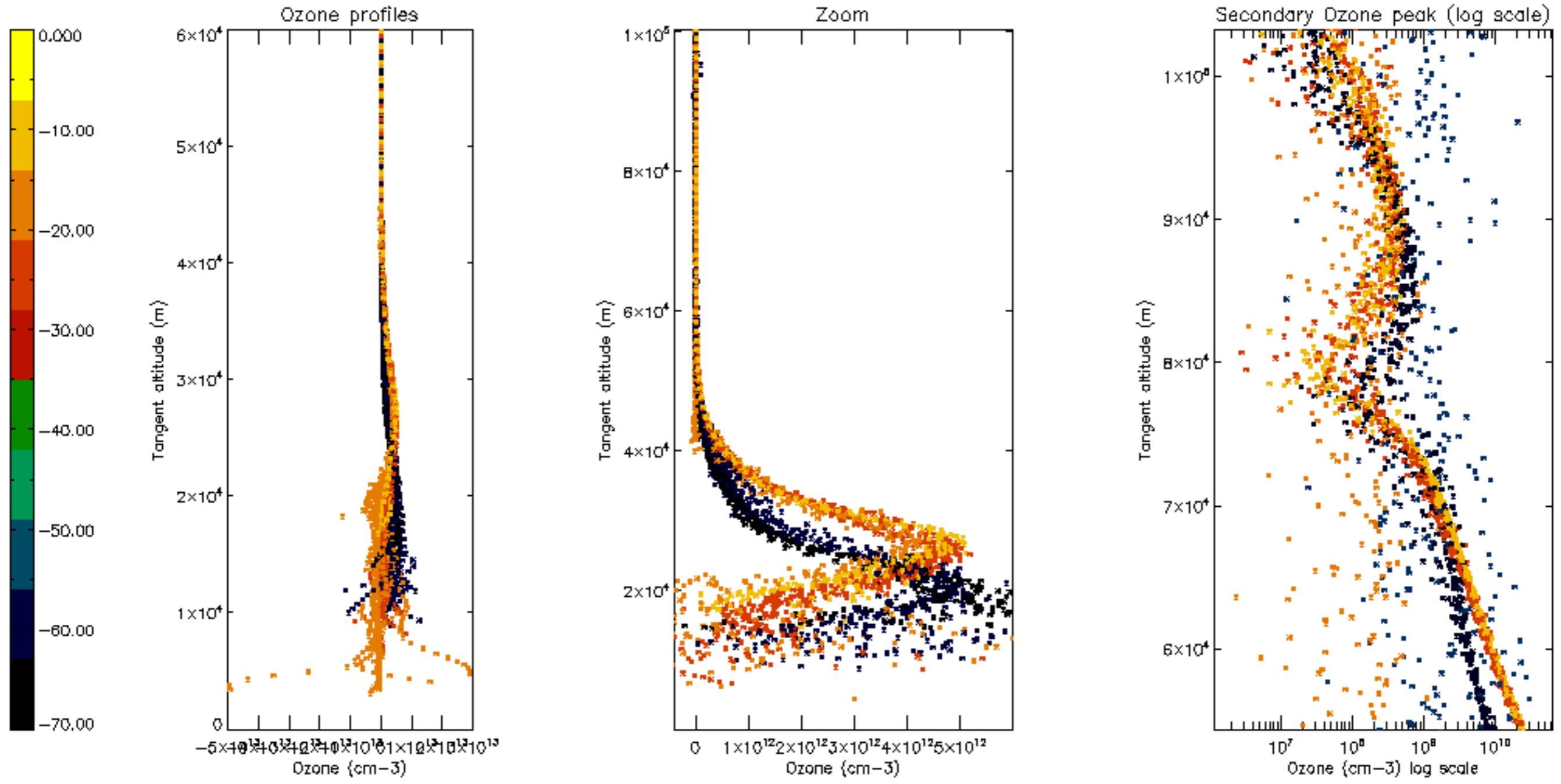


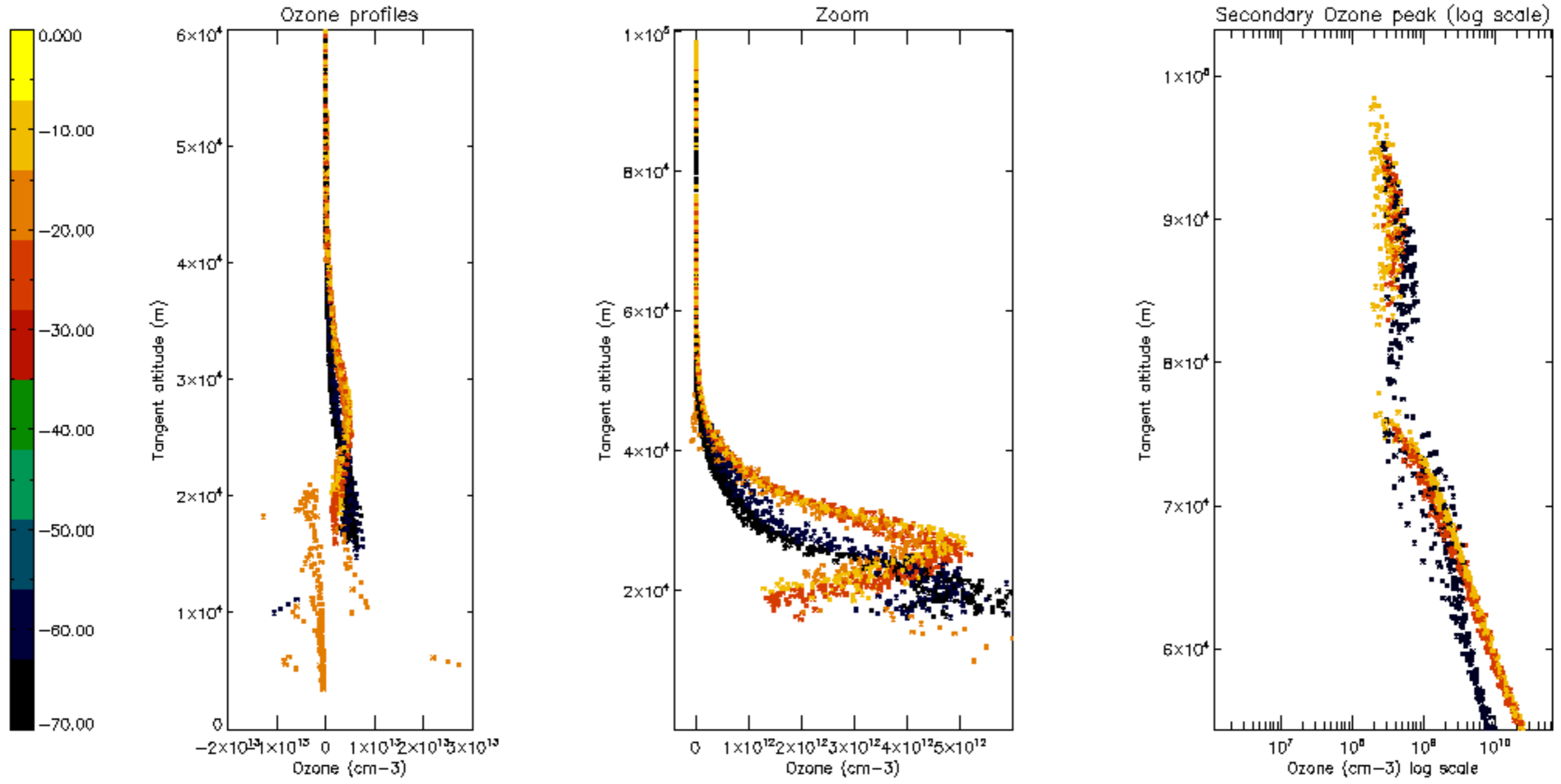
Percentage of star falling outside central band per profile



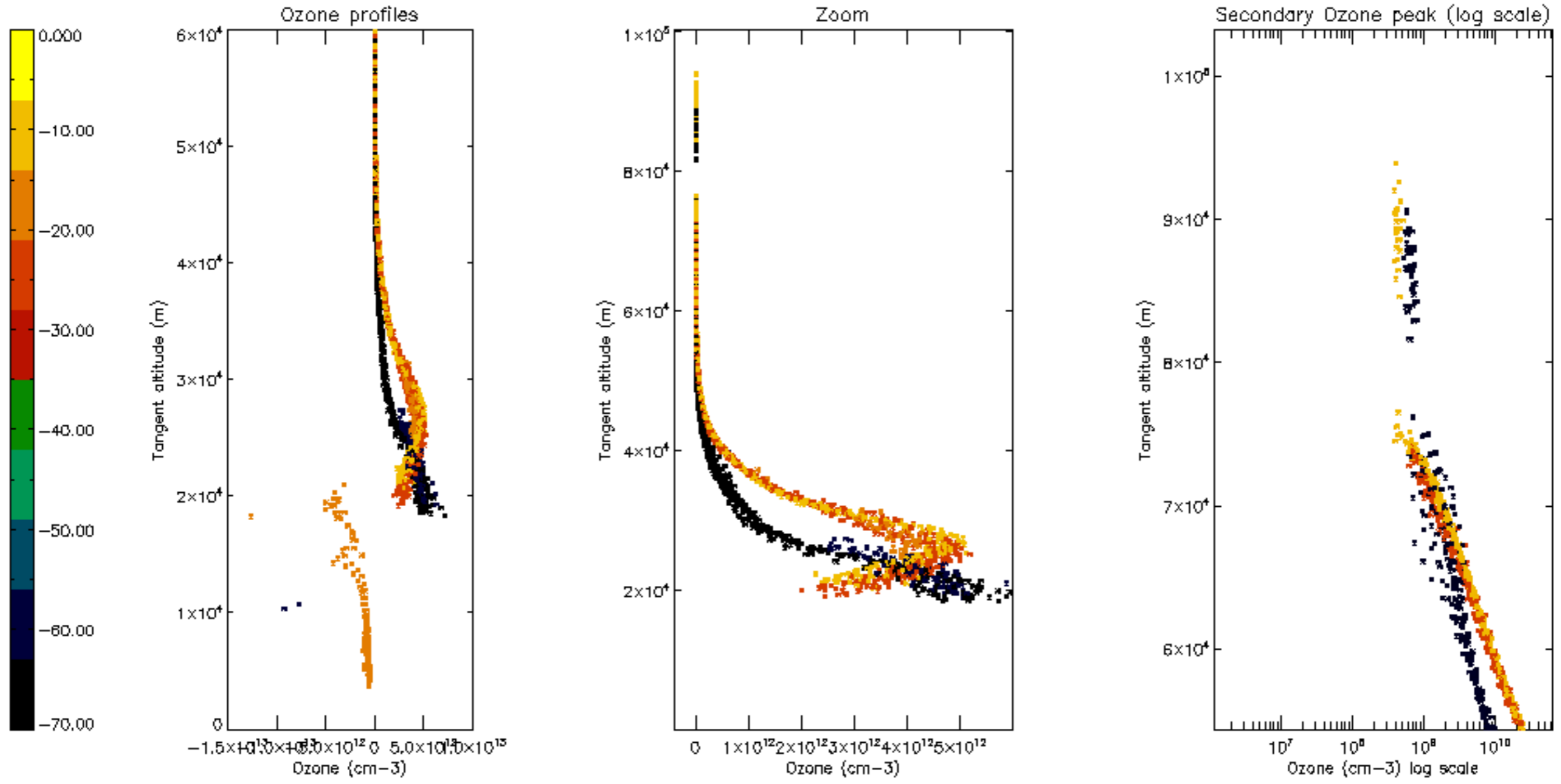
Percentage of saturation errors per profile

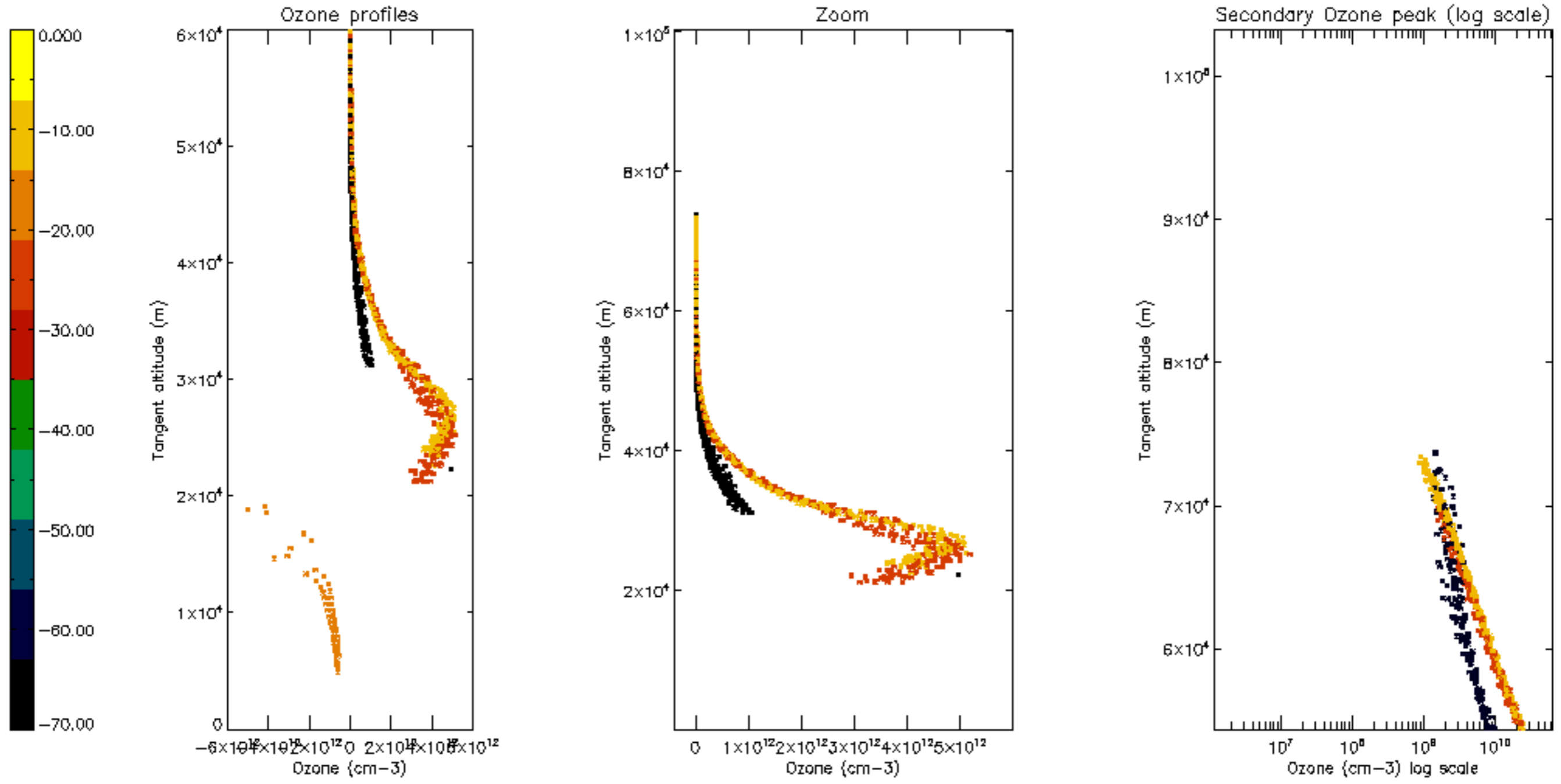


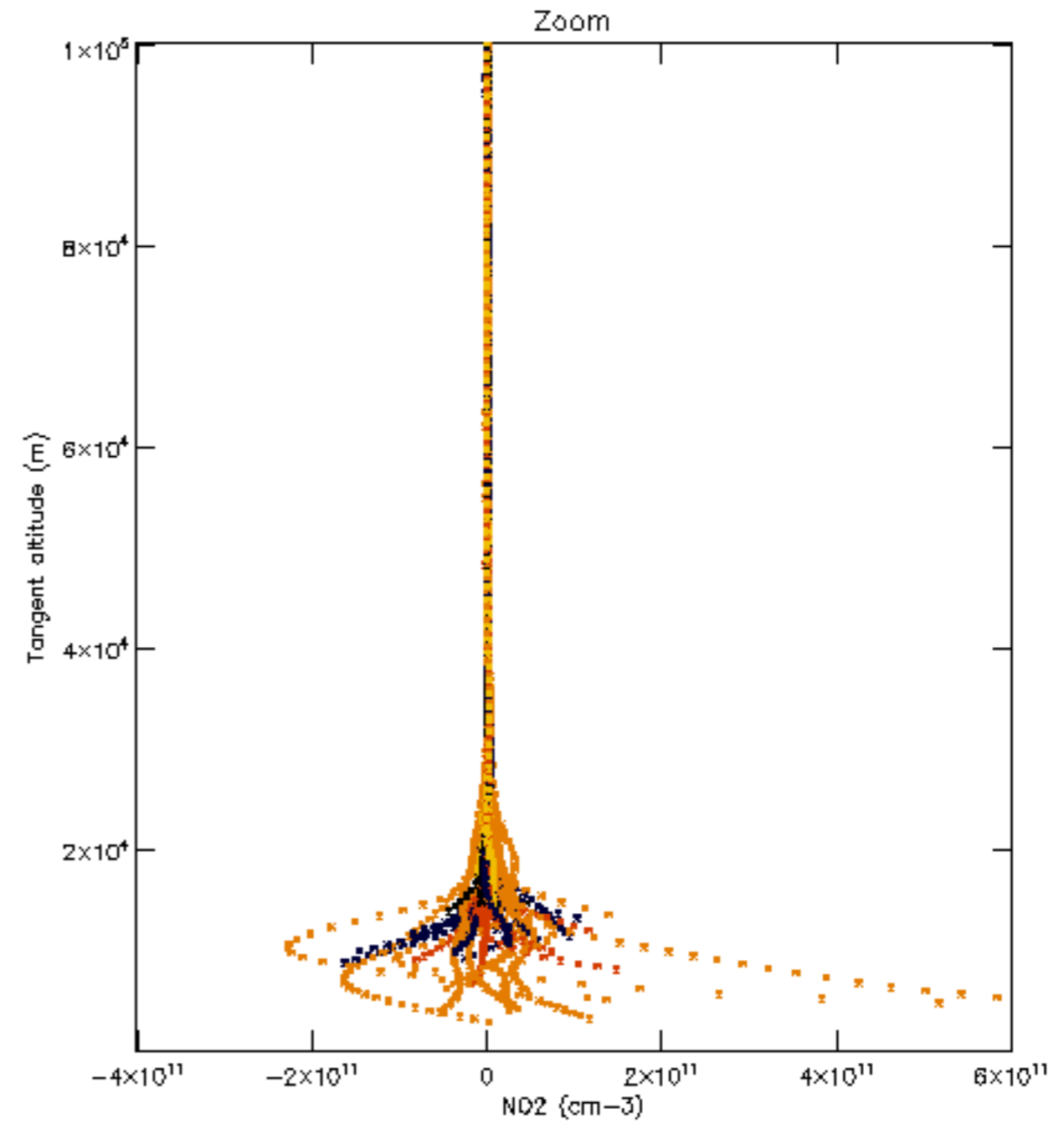
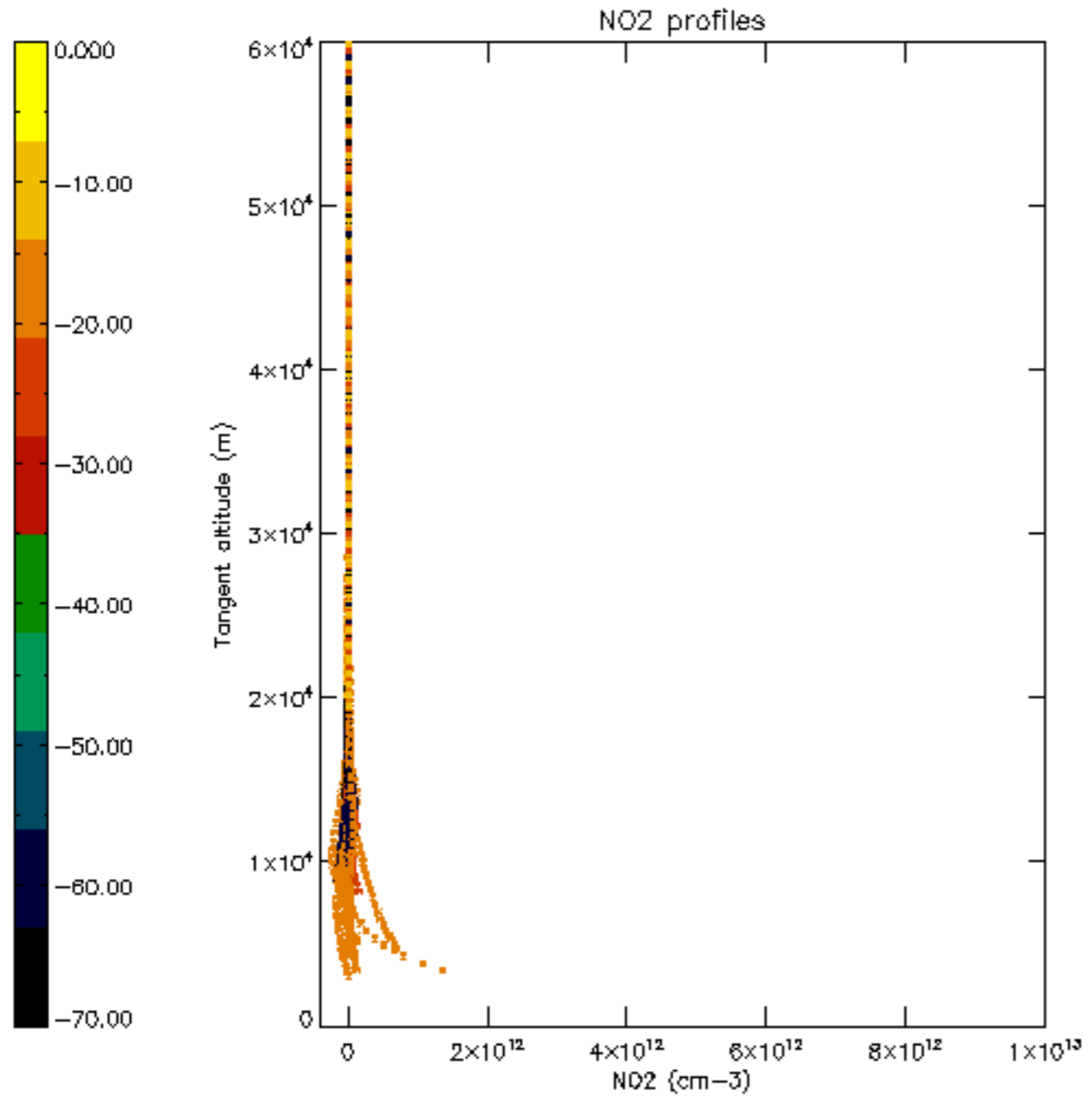


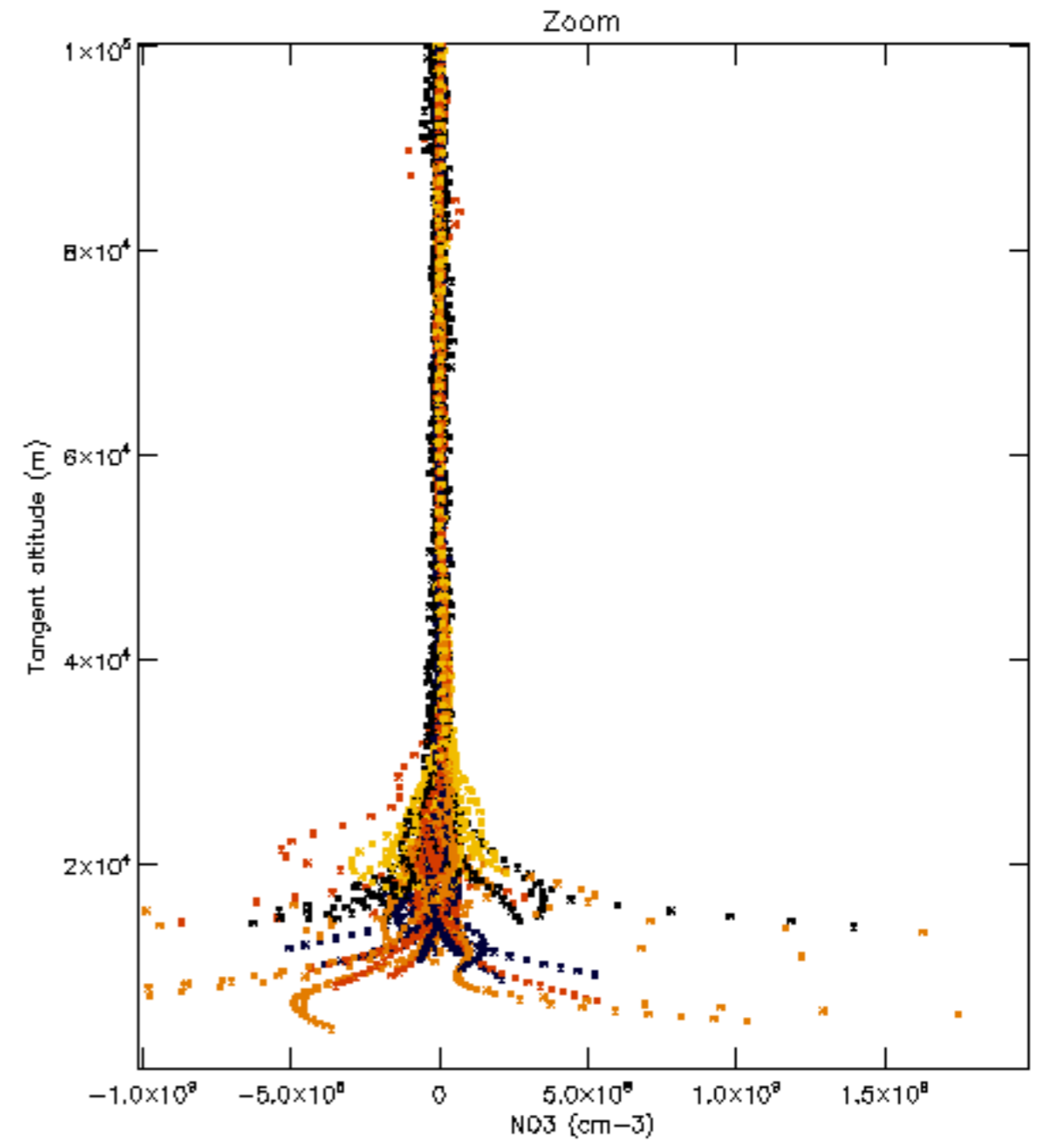
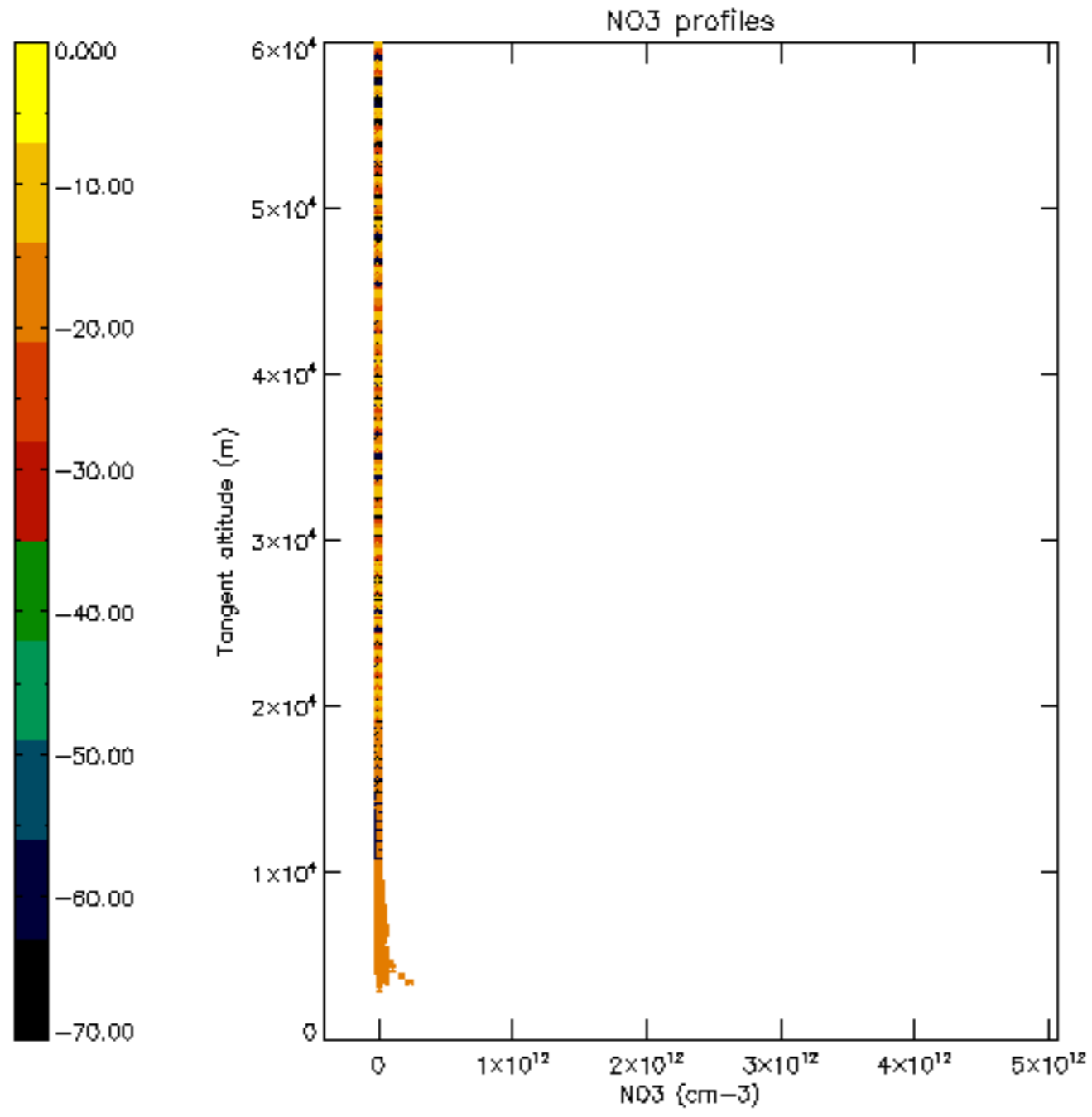


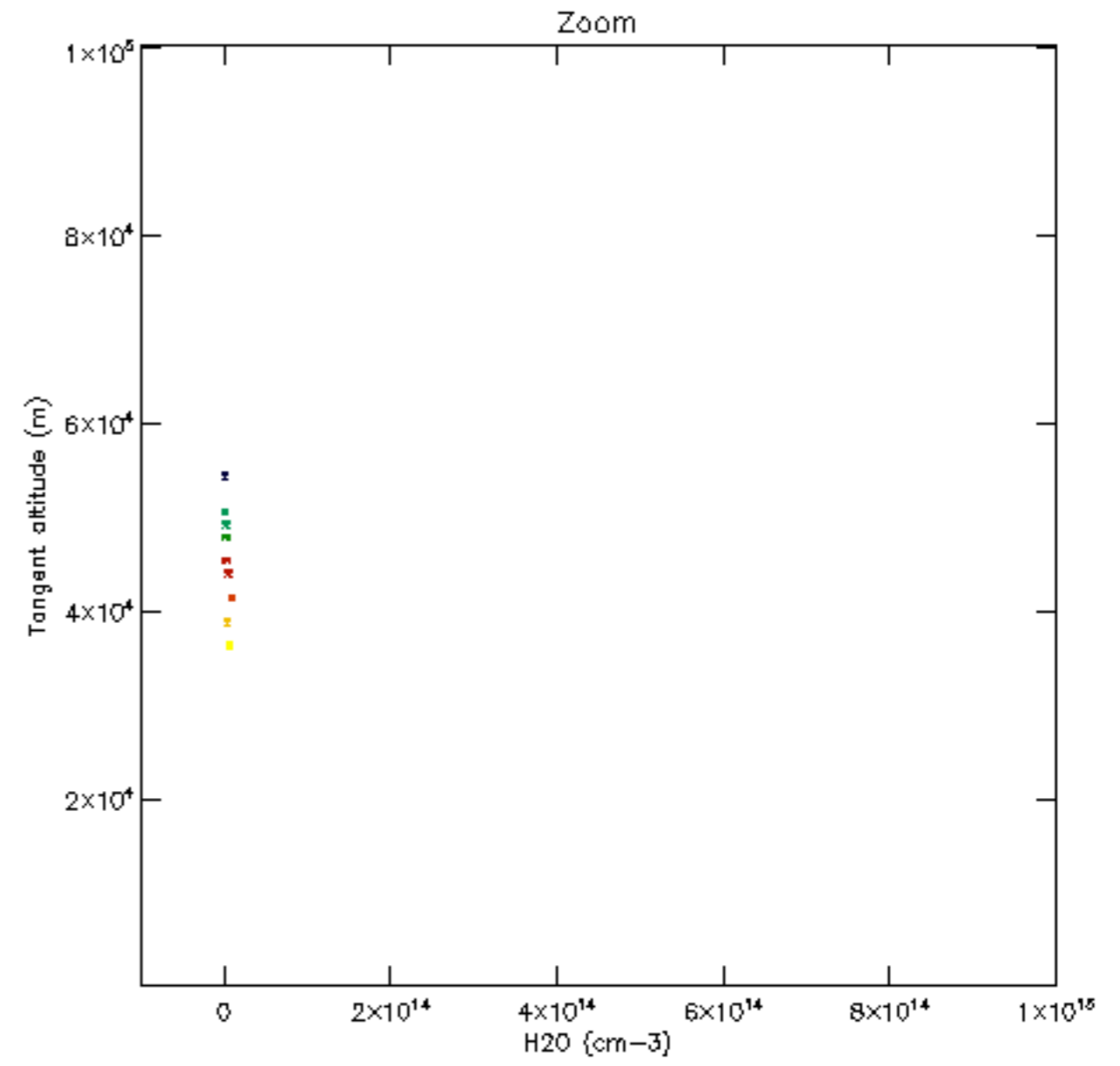
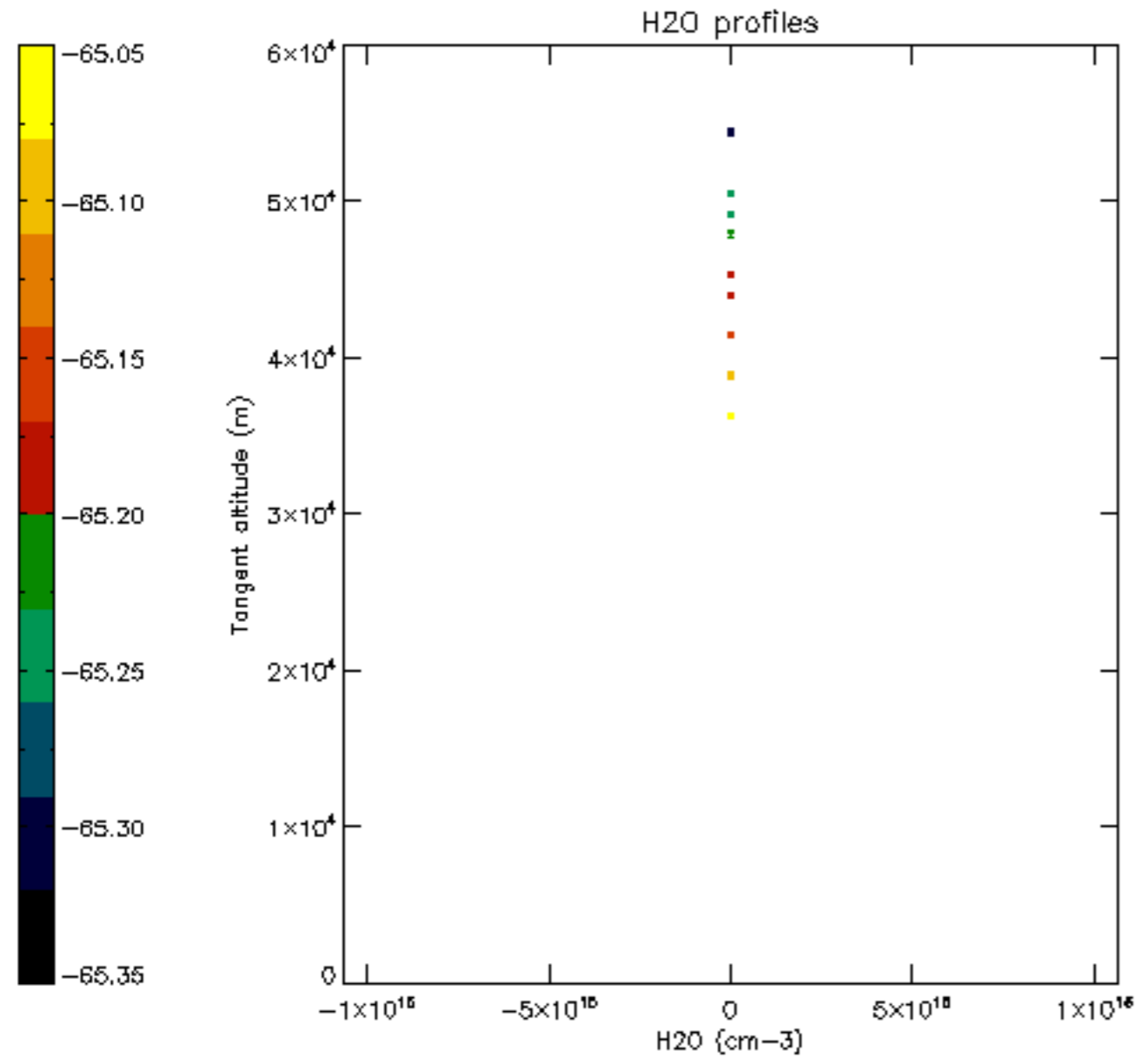


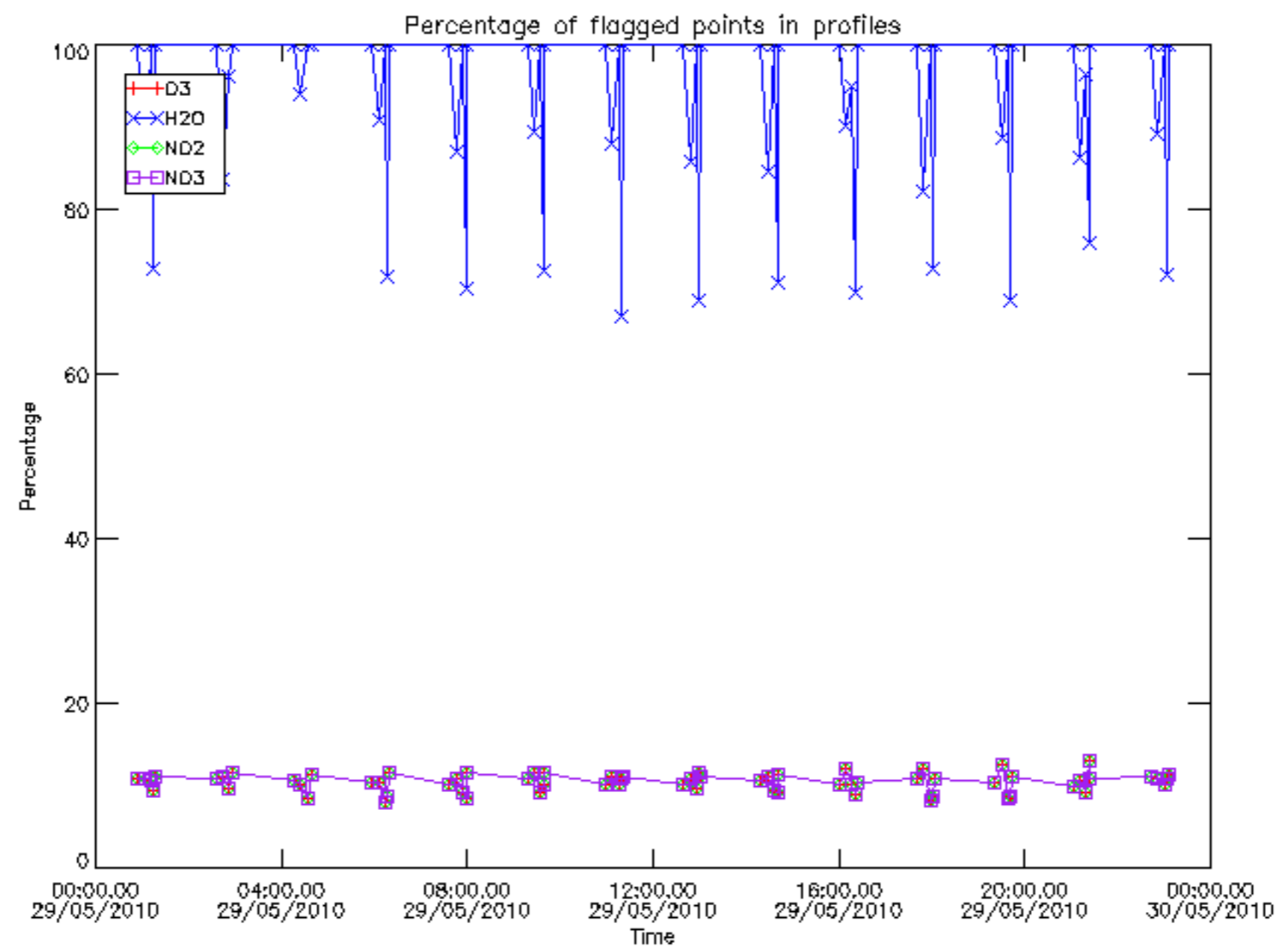




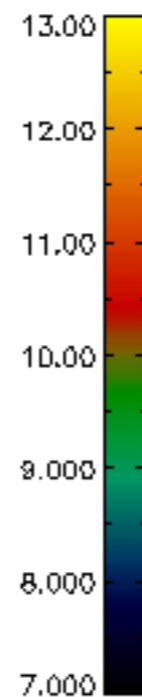
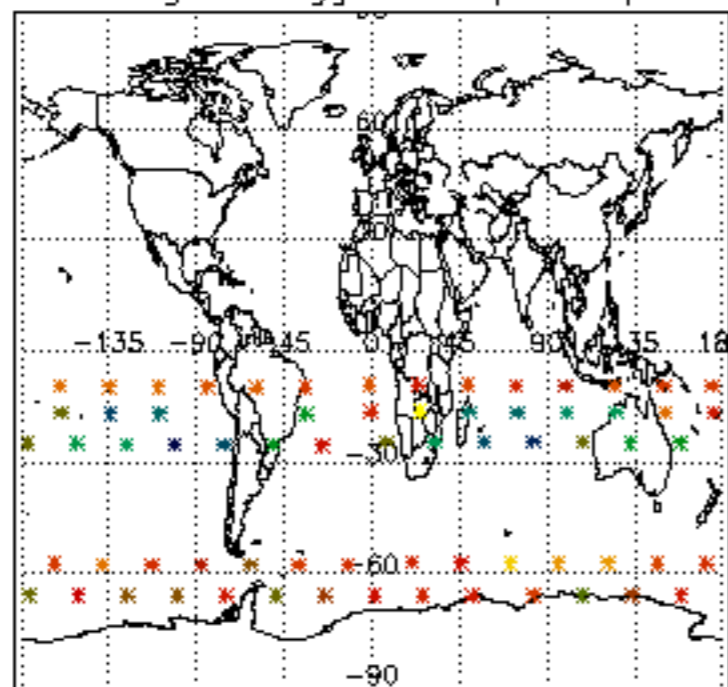




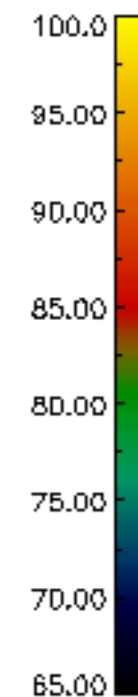
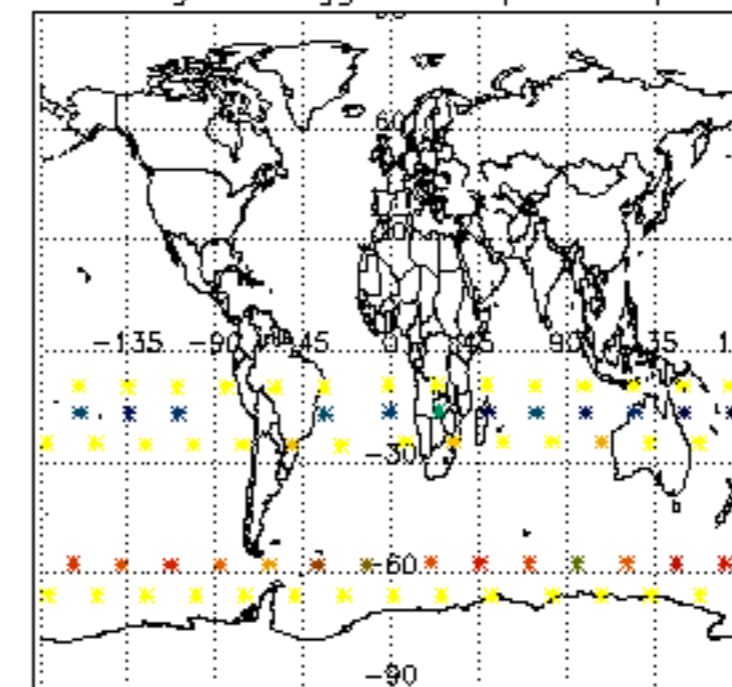




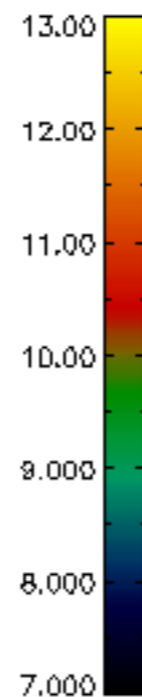
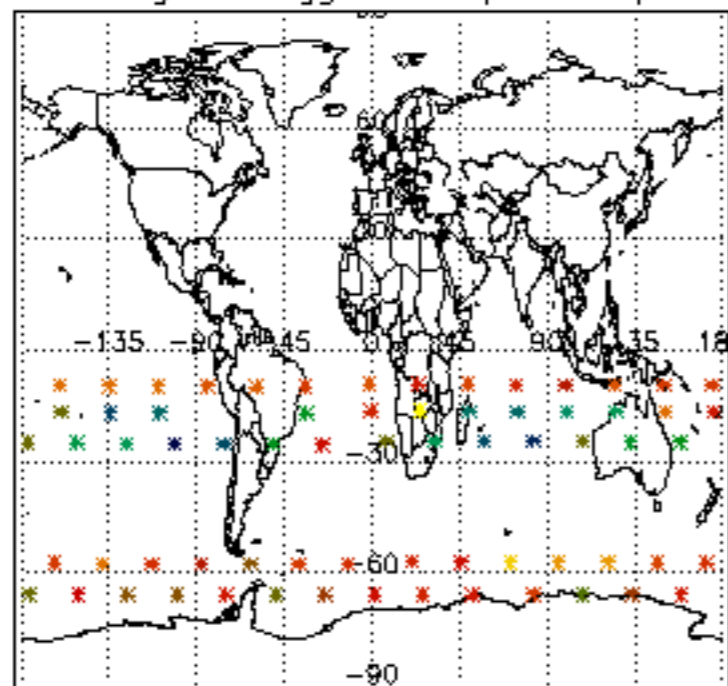
Percentage of flagged data per D3 profile



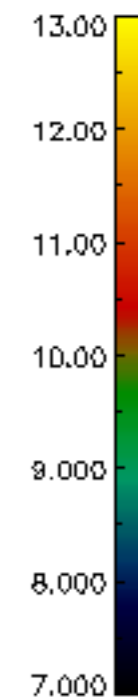
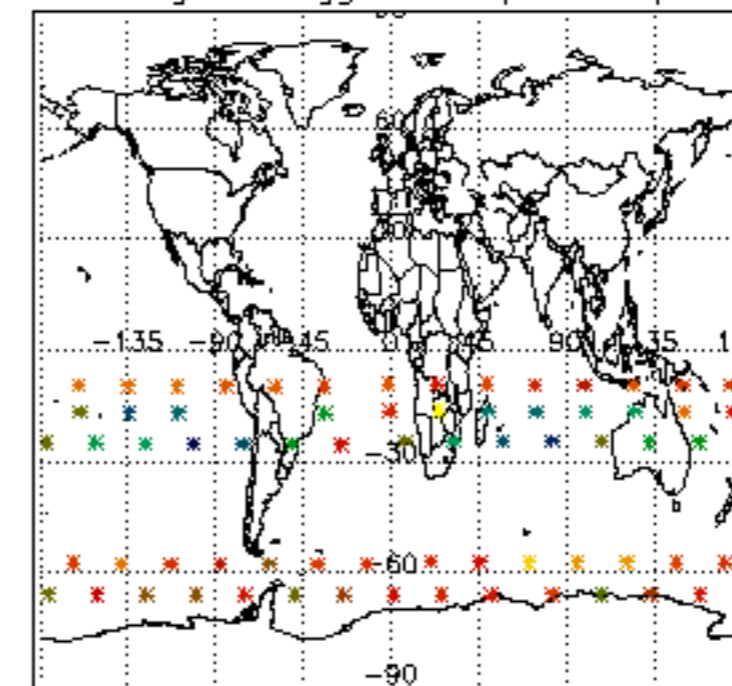
Percentage of flagged data per H2O profile

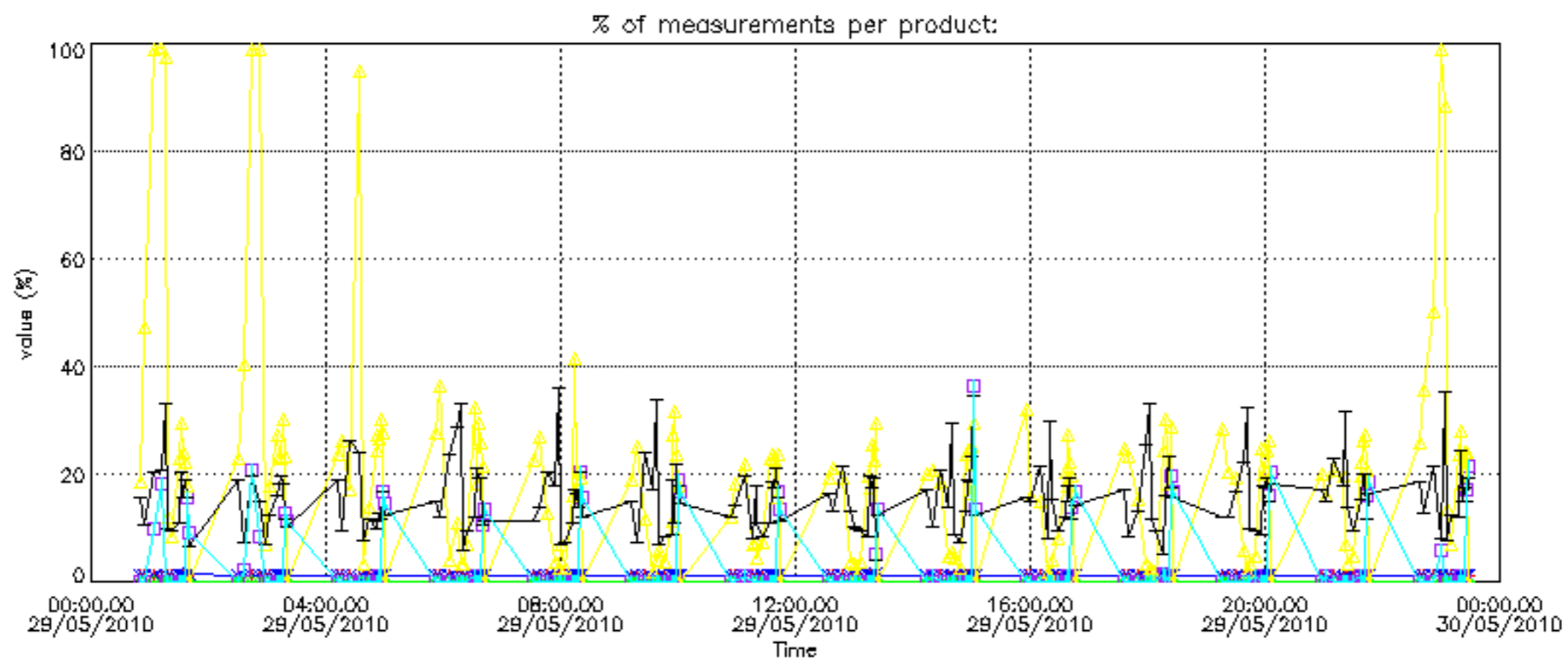
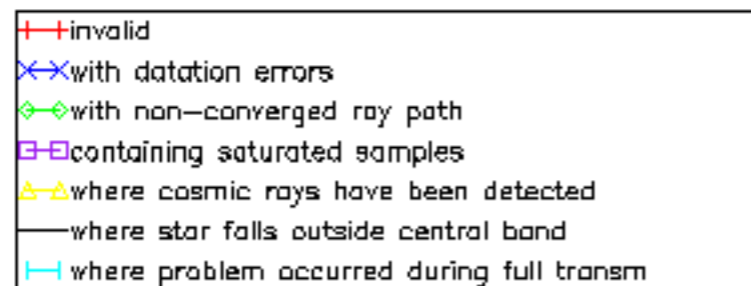


Percentage of flagged data per NO2 profile

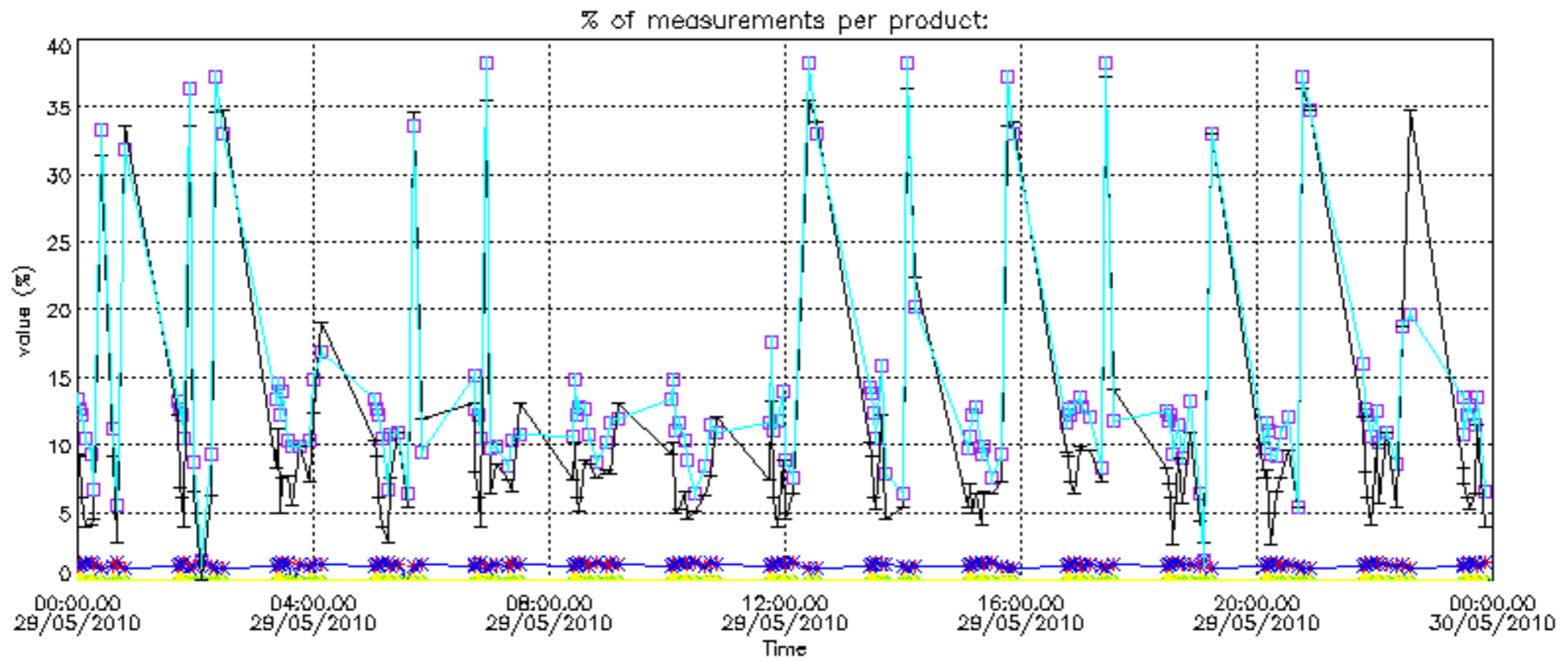


Percentage of flagged data per NO3 profile

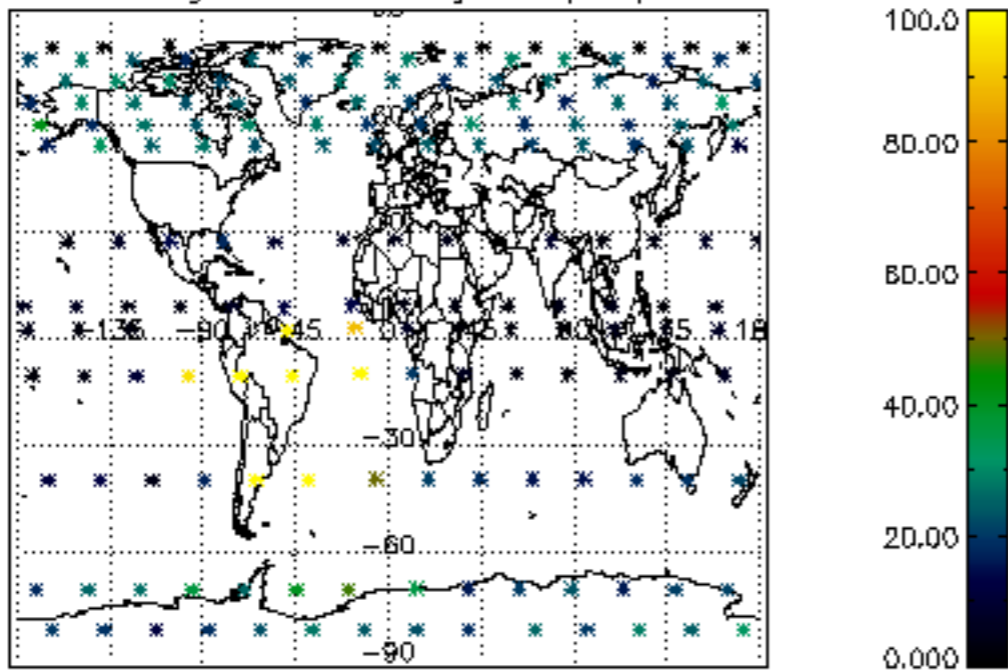




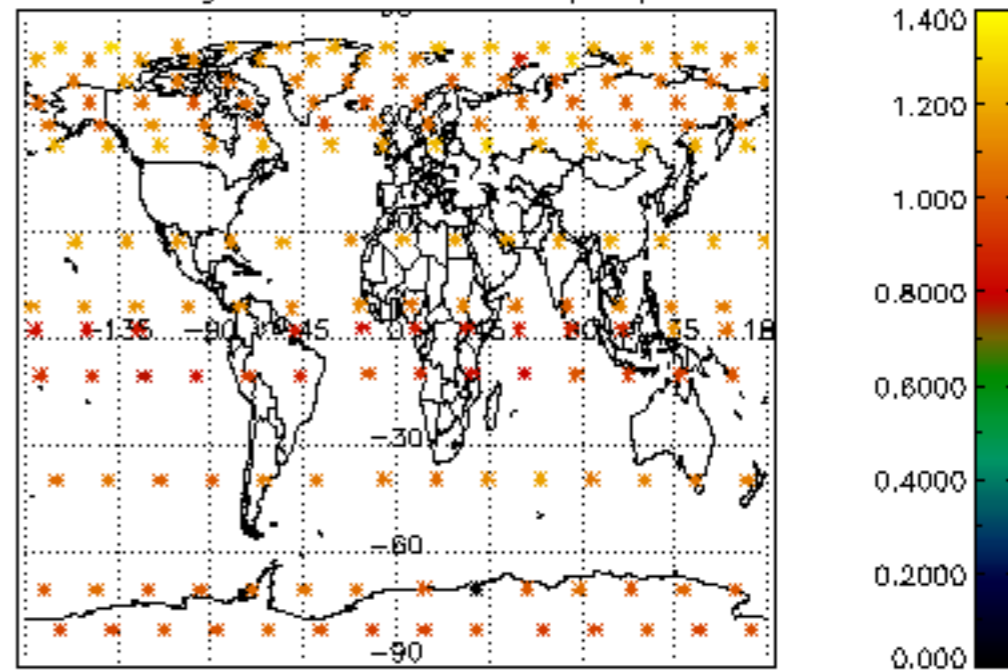




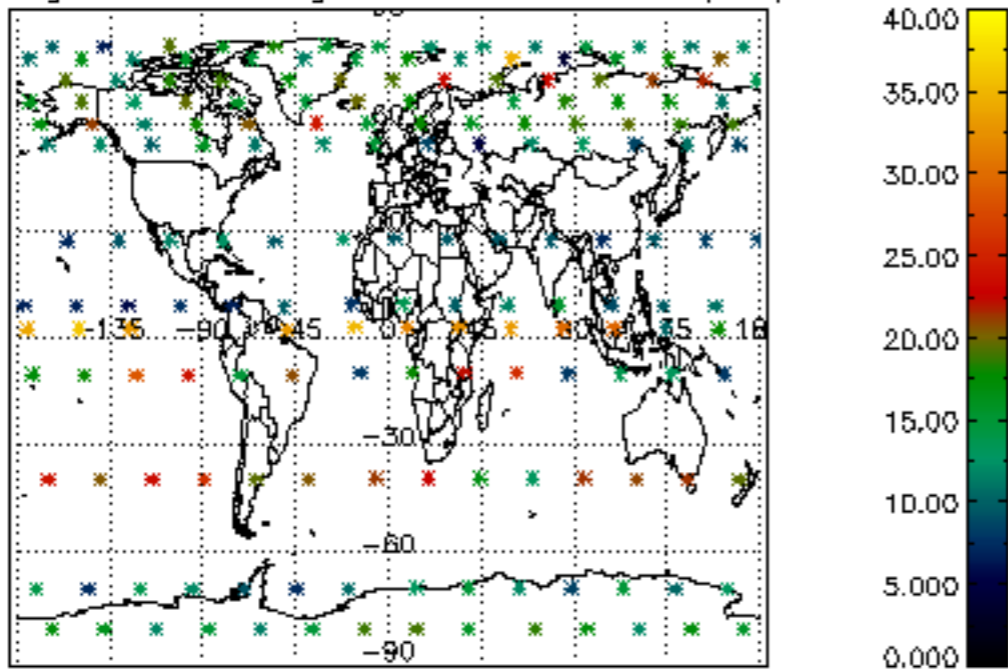
Percentage of cosmic ray hits per profile



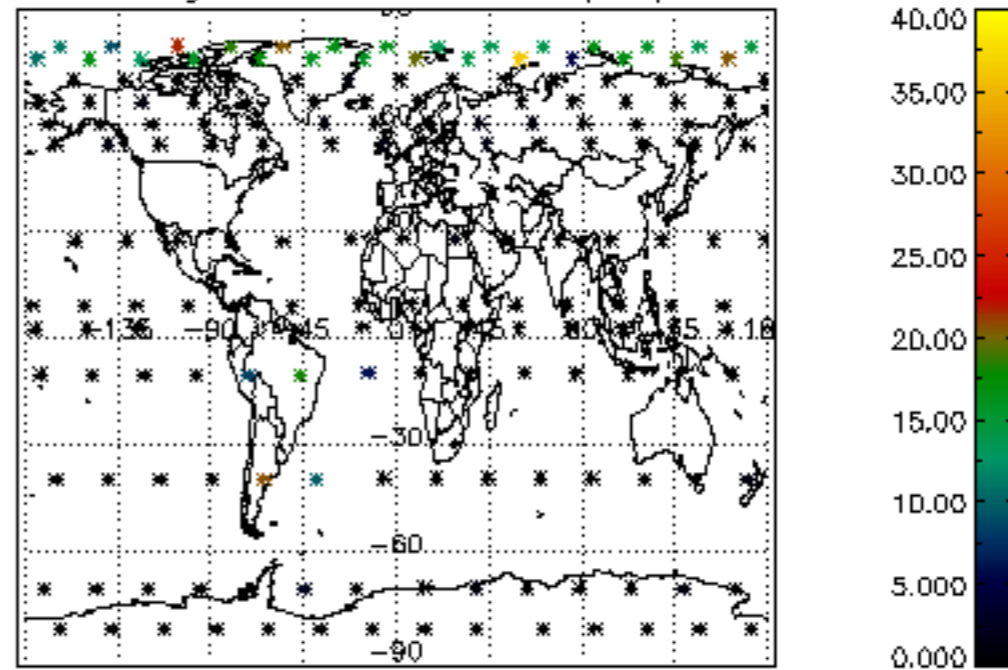
Percentage of datation errors per profile



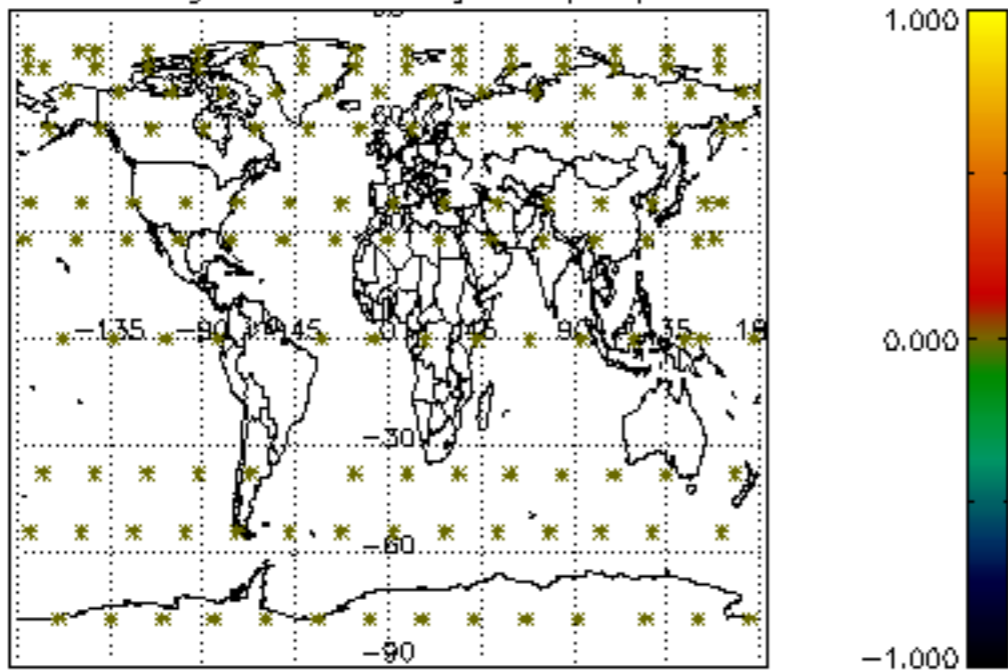
Percentage of star falling outside central band per profile



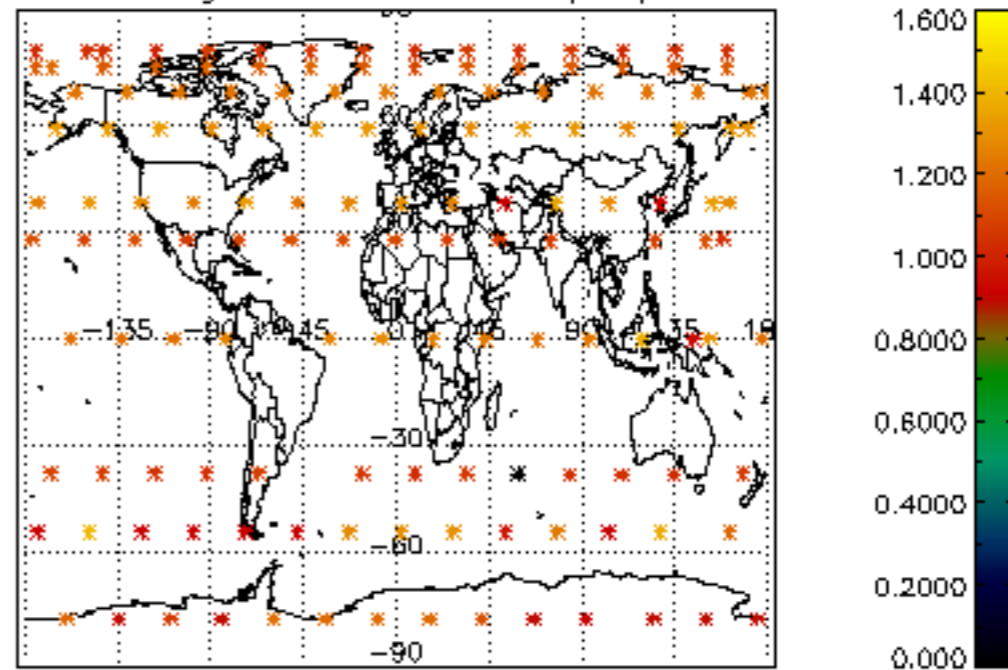
Percentage of saturation errors per profile



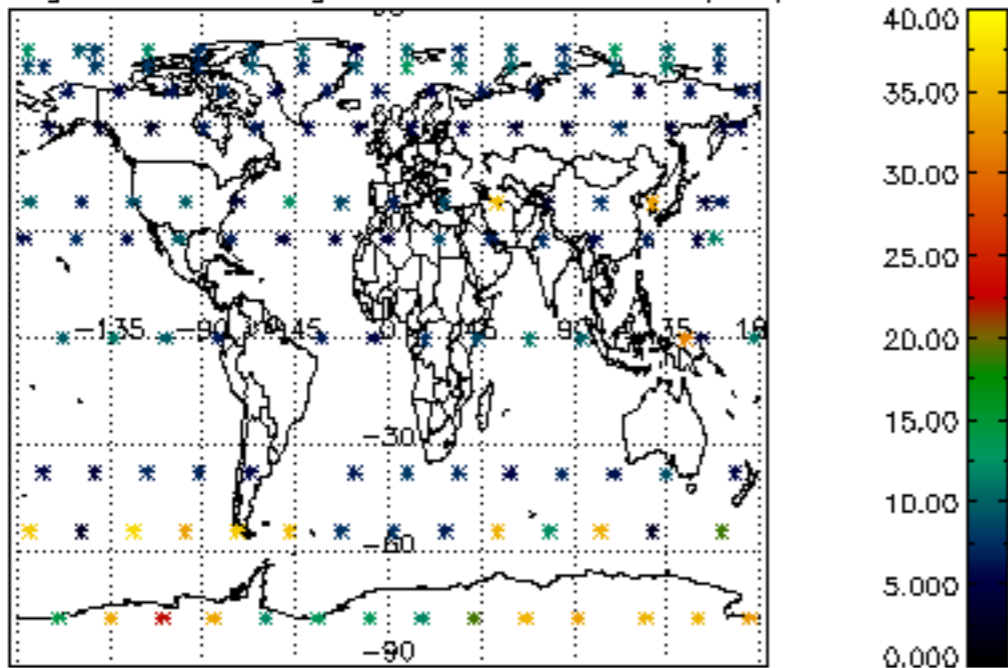
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

