

# 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	25APR2013 10:16:01
Data source version	GOMOS/6.01
Start time of products	09-02-2008 (09FEB2008 00:00:00)
Stop time of products	10-02-2008 (10FEB2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	327
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__2PRFIN20080209_000739_000000452065_00460_31075_4409.N1	09-FEB-2008 00:07:39	Twilight	44.500	8	10Alp CMi	0.40000	6500.0	89	31075	No
2	GOM_NL__2PRFIN20080209_001122_000000372065_00460_31075_4410.N1	09-FEB-2008 00:11:22	Bright	36.500	44	24Gam Gem	1.9280	11000.	73	31075	No
3	GOM_NL__2PRFIN20080209_001339_000000372065_00460_31075_4411.N1	09-FEB-2008 00:13:39	Bright	36.500	170	27Eps Gem	3.0000	9700.0	73	31075	No
4	GOM_NL__2PRFIN20080209_001511_000000352065_00460_31075_4412.N1	09-FEB-2008 00:15:11	Bright	35.000	24	66Alp Gem	1.5800	10200.	70	31075	No
5	GOM_NL__2PRFIN20080209_001940_000000372065_00460_31075_4413.N1	09-FEB-2008 00:19:40	Bright	36.500	42	34Bet Aur	1.9000	10200.	73	31075	No
6	GOM_NL__2PRFIN20080209_003129_000000342065_00460_31075_4414.N1	09-FEB-2008 00:31:29	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	31075	No
7	GOM_NL__2PRFIN20080209_003804_000000342065_00460_31075_4415.N1	09-FEB-2008 00:38:04	Bright	33.500	89	5Alp Cep	2.4510	8000.0	67	31075	No
8	GOM_NL__2PRFIN20080209_004241_000000392065_00460_31075_4416.N1	09-FEB-2008 00:42:41	Bright	38.500	69	33Gam Dra	2.2310	3800.0	77	31075	No
9	GOM_NL__2PRFIN20080209_004618_000000362065_00460_31075_4417.N1	09-FEB-2008 00:46:18	Bright	36.000	5	3Alp Lyr	0.033000	11000.	72	31075	No
10	GOM_NL__2PRFIN20080209_005303_000000322065_00460_31075_4418.N1	09-FEB-2008 00:53:03	Bright	32.000	168	17Zet Aql	2.9860	11000.	64	31075	No
11	GOM_NL__2PRFIN20080209_010423_000000412065_00460_31075_4419.N1	09-FEB-2008 01:04:23	Twilight	41.000	137	22Lam Sgr	2.8240	4400.0	82	31075	No
12	GOM_NL__2PRFIN20080209_010541_000000452065_00460_31075_4420.N1	09-FEB-2008 01:05:41	Twilight	44.500	116	19Del Sgr	2.7000	4100.0	89	31075	No
13	GOM_NL__2PRFIN20080209_010651_000000392065_00460_31075_4421.N1	09-FEB-2008 01:06:51	Dark	38.500	38	20Eps Sgr	1.8360	11000.	77	31075	No
14	GOM_NL__2PRFIN20080209_010840_000000392065_00460_31075_4422.N1	09-FEB-2008 01:08:40	Dark	39.000	25	35Lam Sco	1.6200	28000.	78	31075	No
15	GOM_NL__2PRFIN20080209_011003_000000432065_00460_31075_4423.N1	09-FEB-2008 01:10:03	Dark	43.000	40	The Sco	1.8590	7100.0	86	31075	No
16	GOM_NL__2PRFIN20080209_011153_000000372065_00460_31075_4424.N1	09-FEB-2008 01:11:53	Dark	36.500	147	Alp Ara	2.8770	26000.	73	31075	No
17	GOM_NL__2PRFIN20080209_011323_000000392065_00460_31075_4425.N1	09-FEB-2008 01:13:23	Dark	39.000	141	Bet Ara	2.8400	4600.0	78	31075	No
18	GOM_NL__2PRFIN20080209_011709_000000502065_00461_31076_4413.N1	09-FEB-2008 01:17:09	Dark	49.500	43	Alp TrA	1.9100	4250.0	99	31076	No
19	GOM_NL__2PRFIN20080209_012343_000000472065_00461_31076_4414.N1	09-FEB-2008 01:23:43	Dark	46.500	12	Alp1Cru	0.77500	30000.	93	31076	No
20	GOM_NL__2PRFIN20080209_012642_000000382065_00461_31076_4415.N1	09-FEB-2008 01:26:42	Dark	37.500	29	Bet Car	1.6720	10200.	75	31076	No
21	GOM_NL__2PRFIN20080209_012912_000000372065_00461_31076_4416.N1	09-FEB-2008 01:29:12	Dark	37.000	71	lot Car	2.2460	7700.0	74	31076	No
22	GOM_NL__2PRFIN20080209_013053_000000372065_00461_31076_4417.N1	09-FEB-2008 01:30:53	Dark	37.000	46	Del Vel	1.9540	10600.	74	31076	No
23	GOM_NL__2PRFIN20080209_013320_000000412065_00461_31076_4418.N1	09-FEB-2008 01:33:20	Straylight	40.500	34	Gam2Vel	1.7930	23000.	81	31076	No
24	GOM_NL__2PRFIN20080209_013524_000000402065_00461_31076_4419.N1	09-FEB-2008 01:35:24	Straylight	39.500	70	Zet Pup	2.2460	39000.	79	31076	No
25	GOM_NL__2PRFIN20080209_013945_000000442065_00461_31076_4420.N1	09-FEB-2008 01:39:45	Straylight	43.500	37	25Del CMa	1.8300	5900.0	87	31076	No
26	GOM_NL__2PRFIN20080209_014815_000000442065_00461_31076_4421.N1	09-FEB-2008 01:48:15	Twilight	43.500	8	10Alp CMi	0.40000	6500.0	87	31076	No
27	GOM_NL__2PRFIN20080209_015158_000000362065_00461_31076_4422.N1	09-FEB-2008 01:51:58	Bright	36.000	44	24Gam Gem	1.9280	11000.	72	31076	No
28	GOM_NL__2PRFIN20080209_015415_000000362065_00461_31076_4423.N1	09-FEB-2008 01:54:15	Bright	35.500	170	27Eps Gem	3.0000	9700.0	71	31076	No
29	GOM_NL__2PRFIN20080209_015546_000000382065_00461_31076_4424.N1	09-FEB-2008 01:55:46	Bright	37.500	24	66Alp Gem	1.5800	10200.	75	31076	No
30	GOM_NL__2PRFIN20080209_020016_000000372065_00461_31076_4425.N1	09-FEB-2008 02:00:16	Bright	36.500	42	34Bet Aur	1.9000	10200.	73	31076	No
31	GOM_NL__2PRFIN20080209_021205_000000342065_00461_31076_4426.N1	09-FEB-2008 02:12:05	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	31076	No
32	GOM_NL__2PRFIN20080209_021840_000000352065_00461_31076_4427.N1	09-FEB-2008 02:18:40	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	31076	No
33	GOM_NL__2PRFIN20080209_022317_000000392065_00461_31076_4428.N1	09-FEB-2008 02:23:17	Bright	39.000	69	33Gam Dra	2.2310	3800.0	78	31076	No
34	GOM_NL__2PRFIN20080209_022654_000000392065_00461_31076_4429.N1	09-FEB-2008 02:26:54	Bright	38.500	5	3Alp Lyr	0.033000	11000.	77	31076	No
35	GOM_NL__2PRFIN20080209_023339_000000512065_00461_31076_4430.N1	09-FEB-2008 02:33:39	Bright	51.000	168	17Zet Aql	2.9860	11000.	102	31076	No
36	GOM_NL__2PRFIN20080209_024459_000000432065_00461_31076_4431.N1	09-FEB-2008 02:44:59	Twilight	43.000	137	22Lam Sgr	2.8240	4400.0	86	31076	No
37	GOM_NL__2PRFIN20080209_024617_000000432065_00461_31076_4432.N1	09-FEB-2008 02:46:17	Twilight	43.000	116	19Del Sgr	2.7000	4100.0	86	31076	No
38	GOM_NL__2PRFIN20080209_024727_000000422065_00461_31076_4433.N1	09-FEB-2008 02:47:27	Dark	41.500	38	20Eps Sgr	1.8360	11000.	83	31076	No
39	GOM_NL__2PRFIN20080209_024917_000000442065_00461_31076_4434.N1	09-FEB-2008 02:49:17	Dark	43.500	25	35Lam Sco	1.6200	28000.	87	31076	No
40	GOM_NL__2PRFIN20080209_025039_000000422065_00461_31076_4435.N1	09-FEB-2008 02:50:39	Dark	42.000	40	The Sco	1.8590	7100.0	84	31076	No
41	GOM_NL__2PRFIN20080209_025229_000000362065_00461_31076_4436.N1	09-FEB-2008 02:52:29	Dark	36.000	147	Alp Ara	2.8770	26000.	72	31076	No
42	GOM_NL__2PRFIN20080209_025400_000000482065_00461_31076_4437.N1	09-FEB-2008 02:54:00	Dark	47.500	141	Bet Ara	2.8400	4600.0	95	31076	No







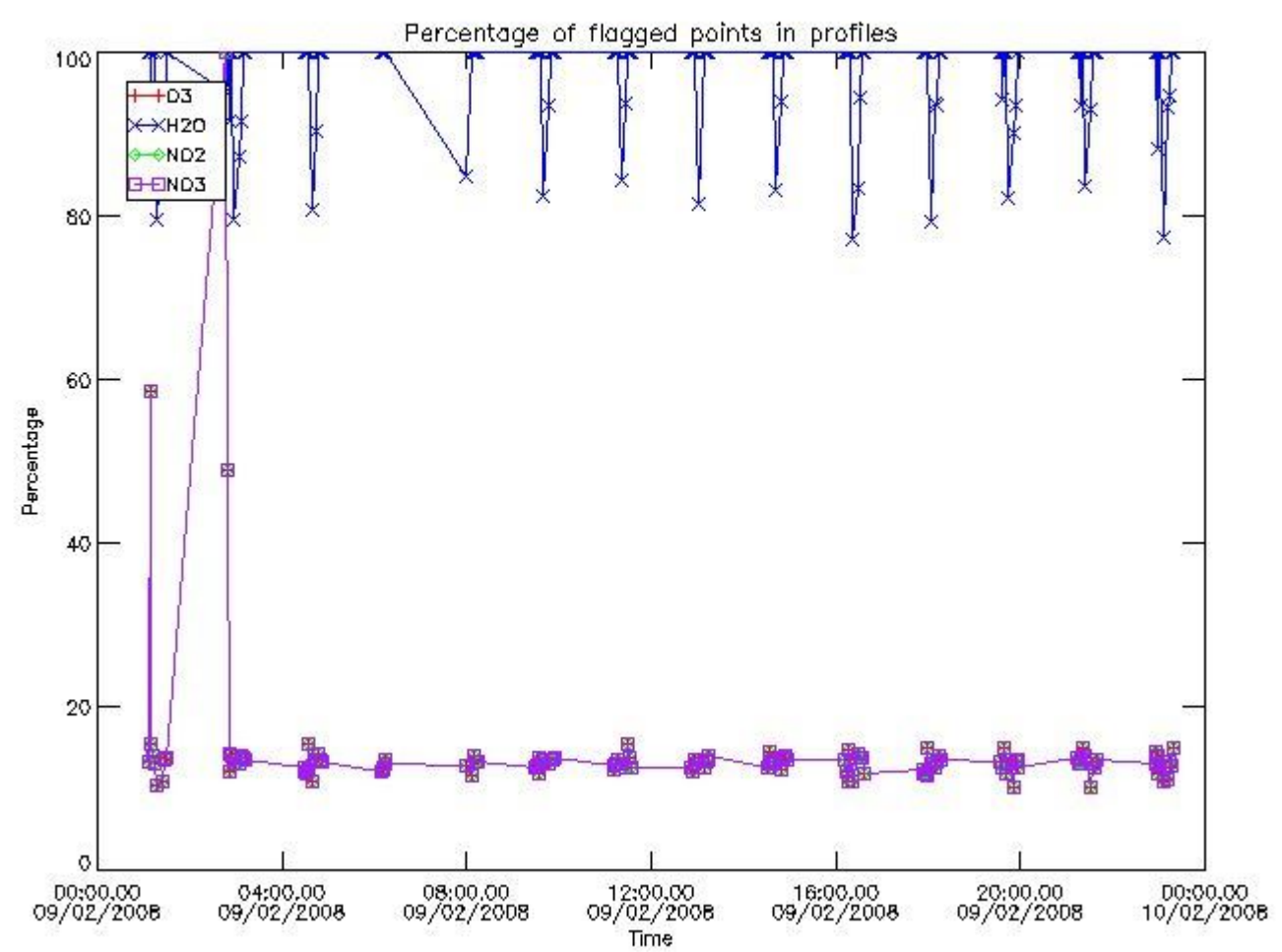


279	GOM_NL__2PRFIN20080209_203840_000000352065_00472_31087_4600.N1	09-FEB-2008 20:38:40	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	31087	No
280	GOM_NL__2PRFIN20080209_204518_000000362065_00472_31087_4601.N1	09-FEB-2008 20:45:18	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	31087	No
281	GOM_NL__2PRFIN20080209_204952_000000392065_00472_31087_4602.N1	09-FEB-2008 20:49:52	Bright	38.500	69	33Gam Dra	2.2310	3800.0	77	31087	No
282	GOM_NL__2PRFIN20080209_205331_000000362065_00472_31087_4603.N1	09-FEB-2008 20:53:31	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	31087	No
283	GOM_NL__2PRFIN20080209_210017_000000332065_00472_31087_4604.N1	09-FEB-2008 21:00:17	Bright	33.000	168	17Zet Aql	2.9860	11000.	66	31087	No
284	GOM_NL__2PRFIN20080209_211137_000000422065_00472_31087_4605.N1	09-FEB-2008 21:11:37	Twilight	42.000	137	22Lam Sgr	2.8240	4400.0	84	31087	No
285	GOM_NL__2PRFIN20080209_211256_000000422065_00472_31087_4606.N1	09-FEB-2008 21:12:56	Twilight	41.500	116	19Del Sgr	2.7000	4100.0	83	31087	No
286	GOM_NL__2PRFIN20080209_211405_000000372065_00472_31087_4607.N1	09-FEB-2008 21:14:05	Dark	37.000	38	20Eps Sgr	1.8360	11000.	74	31087	No
287	GOM_NL__2PRFIN20080209_211557_000000392065_00472_31087_4608.N1	09-FEB-2008 21:15:57	Dark	39.000	25	35Lam Sco	1.6200	28000.	78	31087	No
288	GOM_NL__2PRFIN20080209_211719_000000402065_00472_31087_4609.N1	09-FEB-2008 21:17:19	Dark	39.500	40	The Sco	1.8590	7100.0	79	31087	No
289	GOM_NL__2PRFIN20080209_211908_000000382065_00472_31087_4610.N1	09-FEB-2008 21:19:08	Dark	37.500	147	Alp Ara	2.8770	26000.	75	31087	No
290	GOM_NL__2PRFIN20080209_212039_000000382065_00472_31087_4611.N1	09-FEB-2008 21:20:39	Dark	37.500	141	Bet Ara	2.8400	4600.0	75	31087	No
291	GOM_NL__2PRFIN20080209_212424_000000402065_00473_31088_4591.N1	09-FEB-2008 21:24:24	Dark	40.000	43	Alp TrA	1.9100	4250.0	80	31088	No
292	GOM_NL__2PRFIN20080209_213101_000000502065_00473_31088_4592.N1	09-FEB-2008 21:31:01	Dark	50.000	12	Alp1Cru	0.77500	30000.	100	31088	No
293	GOM_NL__2PRFIN20080209_213355_000000392065_00473_31088_4593.N1	09-FEB-2008 21:33:55	Dark	39.000	29	Bet Car	1.6720	10200.	78	31088	No
294	GOM_NL__2PRFIN20080209_213627_000000412065_00473_31088_4594.N1	09-FEB-2008 21:36:27	Dark	40.500	71	lot Car	2.2460	7700.0	81	31088	No
295	GOM_NL__2PRFIN20080209_213807_000000382065_00473_31088_4595.N1	09-FEB-2008 21:38:07	Dark	37.500	46	Del Vel	1.9540	10600.	75	31088	No
296	GOM_NL__2PRFIN20080209_214033_000000402065_00473_31088_4596.N1	09-FEB-2008 21:40:33	Straylight	39.500	34	Gam2Vel	1.7930	23000.	79	31088	No
297	GOM_NL__2PRFIN20080209_214238_000000402065_00473_31088_4597.N1	09-FEB-2008 21:42:38	Straylight	39.500	70	Zet Pup	2.2460	39000.	79	31088	No
298	GOM_NL__2PRFIN20080209_214600_000000392065_00473_31088_4598.N1	09-FEB-2008 21:46:00	Straylight	39.000	88	31Eta CMa	2.4480	20000.	78	31088	No
299	GOM_NL__2PRFIN20080209_215527_000000522065_00473_31088_4599.N1	09-FEB-2008 21:55:27	Tw_and_stray	52.000	8	10Alp CMi	0.40000	6500.0	104	31088	No
300	GOM_NL__2PRFIN20080209_215912_000000362065_00473_31088_4600.N1	09-FEB-2008 21:59:12	Bright	35.500	44	24Gam Gem	1.9280	11000.	71	31088	No
301	GOM_NL__2PRFIN20080209_220152_000000392065_00473_31088_4601.N1	09-FEB-2008 22:01:52	Bright	38.500	17	78Bet Gem	1.1610	4500.0	77	31088	No
302	GOM_NL__2PRFIN20080209_220731_000000352065_00473_31088_4602.N1	09-FEB-2008 22:07:31	Bright	35.000	42	34Bet Aur	1.9000	10200.	70	31088	No
303	GOM_NL__2PRFIN20080209_221916_000000372065_00473_31088_4603.N1	09-FEB-2008 22:19:16	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	31088	No
304	GOM_NL__2PRFIN20080209_222554_000000362065_00473_31088_4604.N1	09-FEB-2008 22:25:54	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	31088	No
305	GOM_NL__2PRFIN20080209_223028_000000392065_00473_31088_4605.N1	09-FEB-2008 22:30:28	Bright	39.000	69	33Gam Dra	2.2310	3800.0	78	31088	No
306	GOM_NL__2PRFIN20080209_223407_000000342065_00473_31088_4606.N1	09-FEB-2008 22:34:07	Bright	34.000	5	3Alp Lyr	0.033000	11000.	68	31088	No
307	GOM_NL__2PRFIN20080209_224053_000000342065_00473_31088_4607.N1	09-FEB-2008 22:40:53	Bright	33.500	168	17Zet Aql	2.9860	11000.	67	31088	No
308	GOM_NL__2PRFIN20080209_225213_000000392065_00473_31088_4608.N1	09-FEB-2008 22:52:13	Twilight	38.500	137	22Lam Sgr	2.8240	4400.0	77	31088	No
309	GOM_NL__2PRFIN20080209_225332_000000422065_00473_31088_4609.N1	09-FEB-2008 22:53:32	Twilight	41.500	116	19Del Sgr	2.7000	4100.0	83	31088	No
310	GOM_NL__2PRFIN20080209_225441_000000402065_00473_31088_4610.N1	09-FEB-2008 22:54:41	Dark	39.500	38	20Eps Sgr	1.8360	11000.	79	31088	No
311	GOM_NL__2PRFIN20080209_225633_000000432065_00473_31088_4611.N1	09-FEB-2008 22:56:33	Dark	42.500	25	35Lam Sco	1.6200	28000.	85	31088	No
312	GOM_NL__2PRFIN20080209_225755_000000432065_00473_31088_4612.N1	09-FEB-2008 22:57:55	Dark	43.000	40	The Sco	1.8590	7100.0	86	31088	No
313	GOM_NL__2PRFIN20080209_225945_000000372065_00473_31088_4613.N1	09-FEB-2008 22:59:45	Dark	36.500	147	Alp Ara	2.8770	26000.	73	31088	No
314	GOM_NL__2PRFIN20080209_230115_000000442065_00473_31088_4614.N1	09-FEB-2008 23:01:15	Dark	44.000	141	Bet Ara	2.8400	4600.0	88	31088	No
315	GOM_NL__2PRFIN20080209_230500_000000472065_00474_31089_4627.N1	09-FEB-2008 23:05:00	Dark	47.000	43	Alp TrA	1.9100	4250.0	94	31089	No
316	GOM_NL__2PRFIN20080209_231137_000000462065_00474_31089_4628.N1	09-FEB-2008 23:11:37	Dark	45.500	12	Alp1Cru	0.77500	30000.	91	31089	No
317	GOM_NL__2PRFIN20080209_231431_000000392065_00474_31089_4629.N1	09-FEB-2008 23:14:31	Dark	38.500	29	Bet Car	1.6720	10200.	77	31089	No
318	GOM_NL__2PRFIN20080209_231703_000000402065_00474_31089_4630.N1	09-FEB-2008 23:17:03	Dark	40.000	71	lot Car	2.2460	7700.0	80	31089	No
319	GOM_NL__2PRFIN20080209_231843_000000382065_00474_31089_4631.N1	09-FEB-2008 23:18:43	Dark	37.500	46	Del Vel	1.9540	10600.	75	31089	No
320	GOM_NL__2PRFIN20080209_232109_000000402065_00474_31089_4632.N1	09-FEB-2008 23:21:09	Straylight	39.500	34	Gam2Vel	1.7930	23000.	79	31089	No
321	GOM_NL__2PRFIN20080209_232314_000000402065_00474_31089_4633.N1	09-FEB-2008 23:23:14	Straylight	40.000	70	Zet Pup	2.2460	39000.	80	31089	No
322	GOM_NL__2PRFIN20080209_232636_000000412065_00474_31089_4634.N1	09-FEB-2008 23:26:36	Straylight	41.000	88	31Eta CMa	2.4480	20000.	82	31089	No
323	GOM_NL__2PRFIN20080209_233603_000000442065_00474_31089_4635.N1	09-FEB-2008 23:36:03	Tw_and_stray	43.500	8	10Alp CMi	0.40000	6500.0	87	31089	No
324	GOM_NL__2PRFIN20080209_233948_000000372065_00474_31089_4636.N1	09-FEB-2008 23:39:48	Bright	36.500	44	24Gam Gem	1.9280	11000.	73	31089	No
325	GOM_NL__2PRFIN20080209_234228_000000392065_00474_31089_4637.N1	09-FEB-2008 23:42:28	Bright	38.500	17	78Bet Gem	1.1610	4500.0	77	31089	No
326	GOM_NL__2PRFIN20080209_234807_000000372065_00474_31089_4638.N1	09-FEB-2008 23:48:07	Bright	37.000	42	34Bet Aur	1.9000	10200.	74	31089	No
327	GOM_NL__2PRFIN20080209_235952_000000372065_00474_31089_4639.N1	09-FEB-2008 23:59:52	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	31089	No

### 3. Quality information per product

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

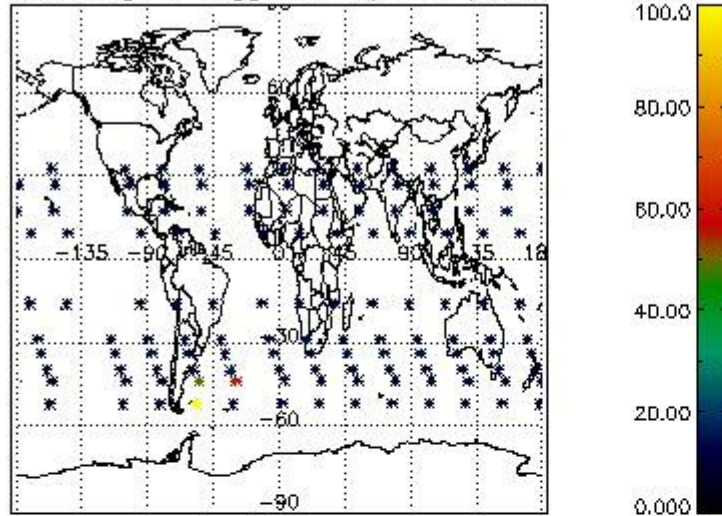
#### 3.1 Plot quality information per product (time dependant)



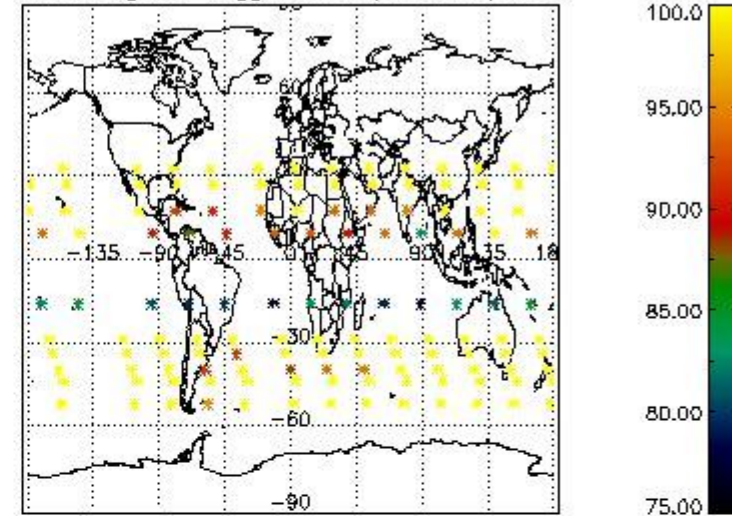
3.2 Plot quality information per product (world map)



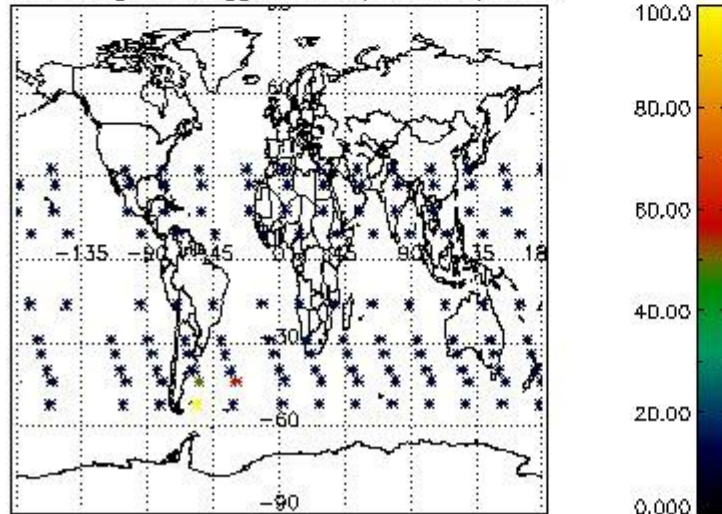
Percentage of flagged data per O3 profile



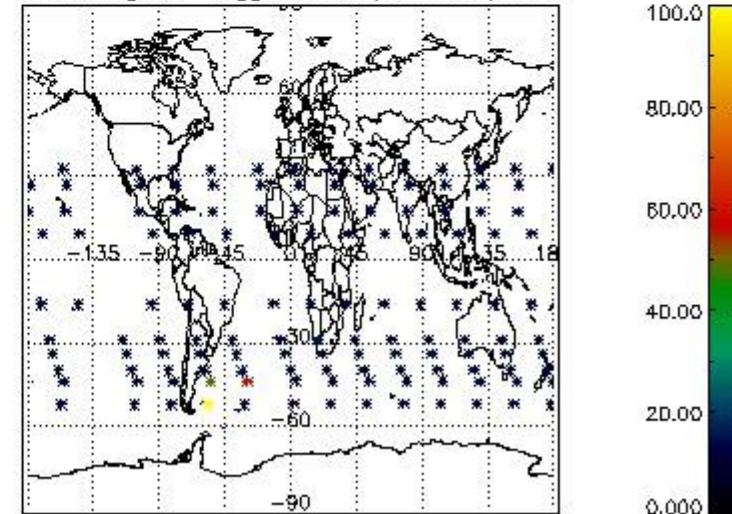
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

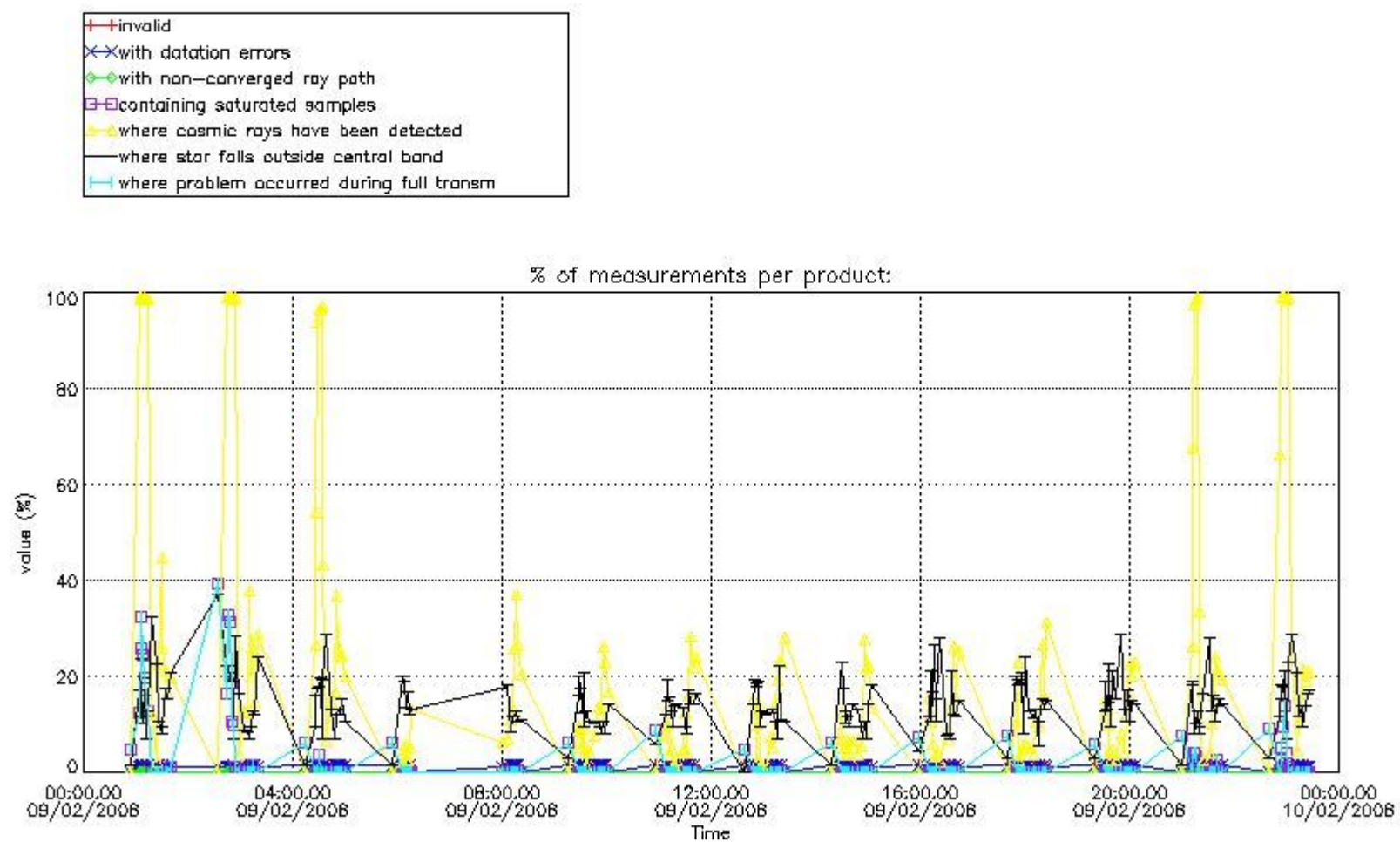


#### 4. Level 1 quality information per product

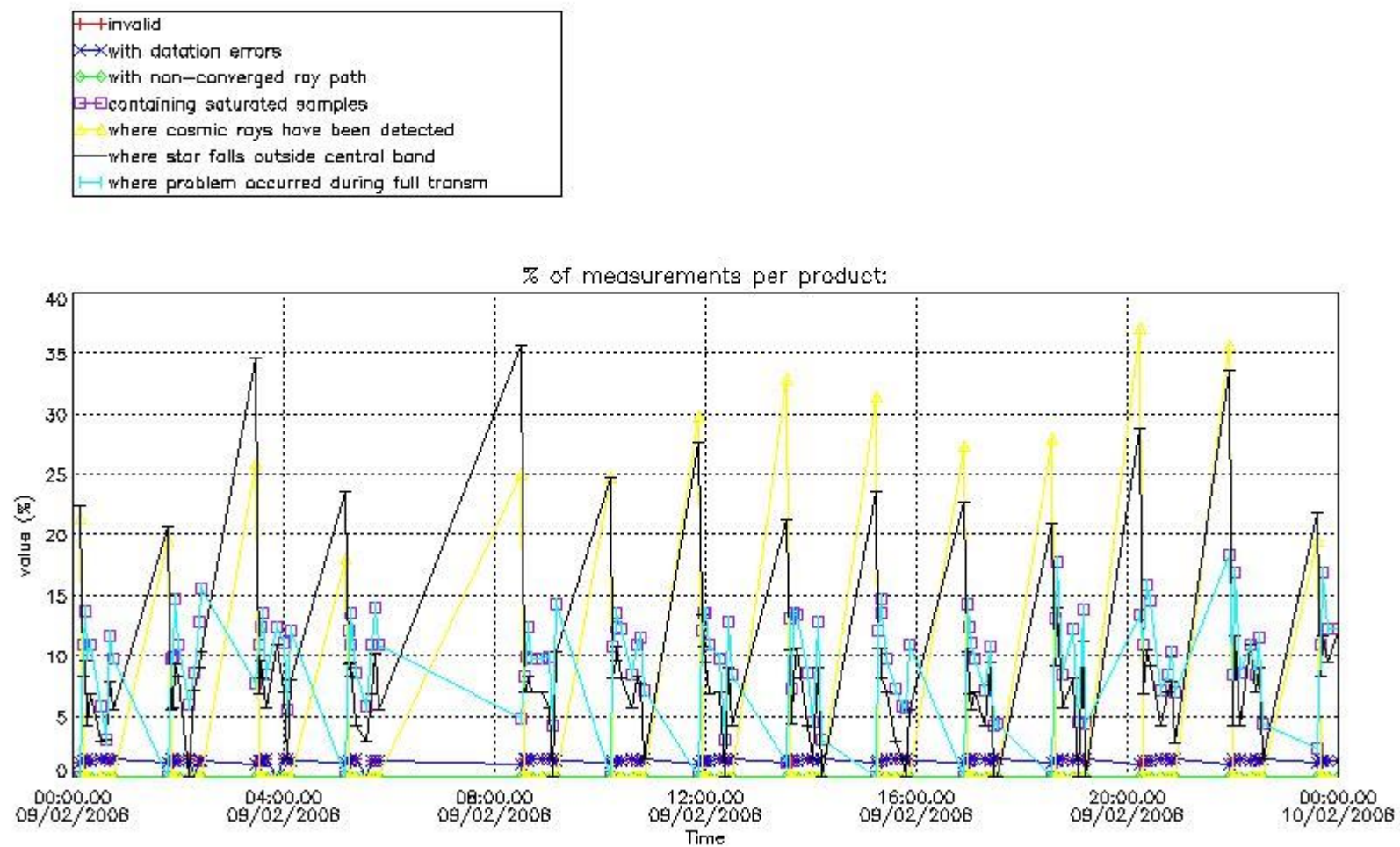
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



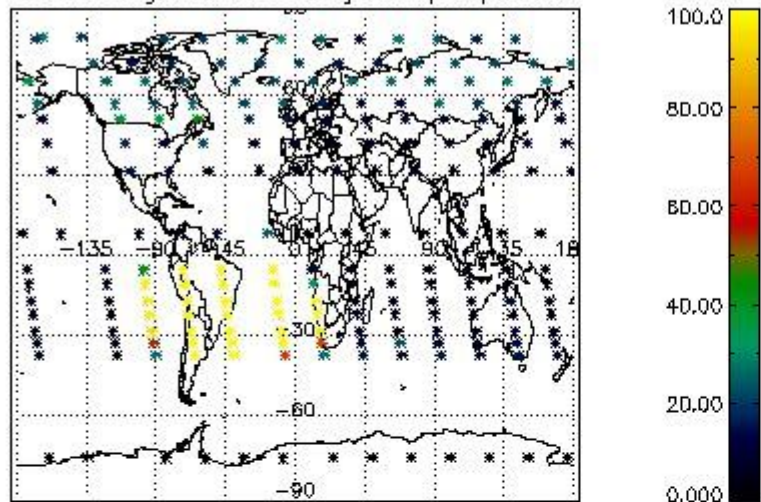
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



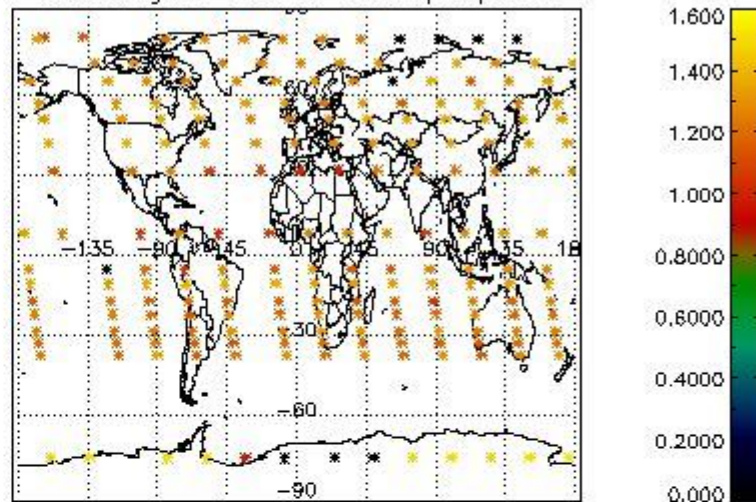
*4.2 Plot quality information per product coming from level 1b processing (world map)*

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

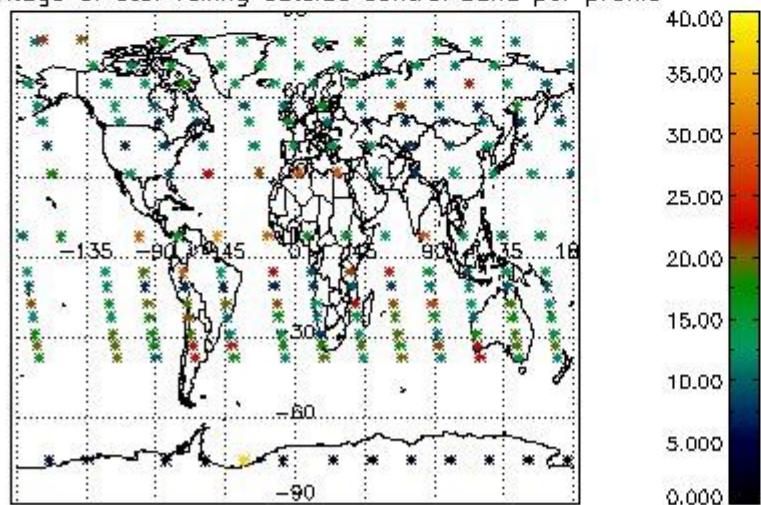
Percentage of cosmic ray hits per profile



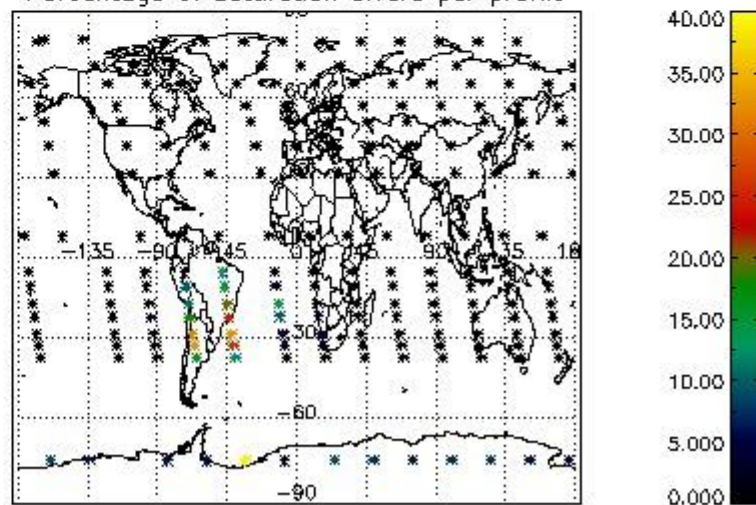
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

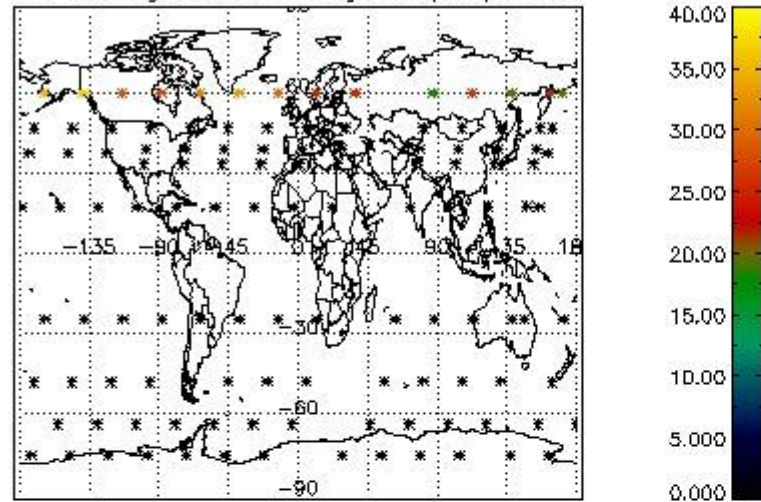


Percentage of saturation errors per profile

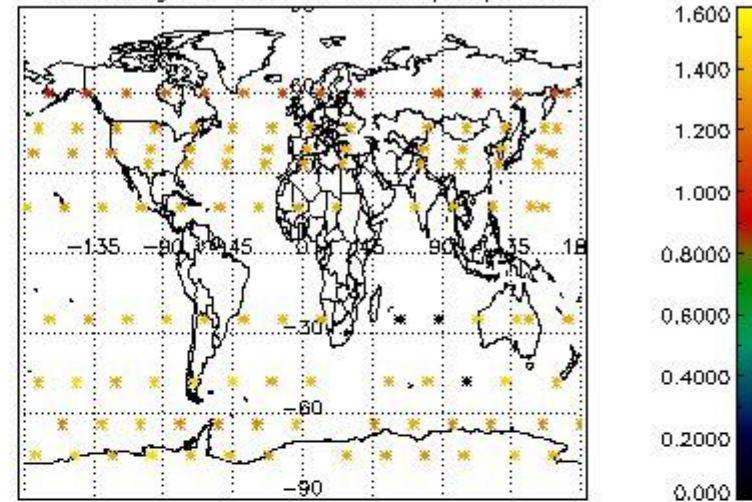


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

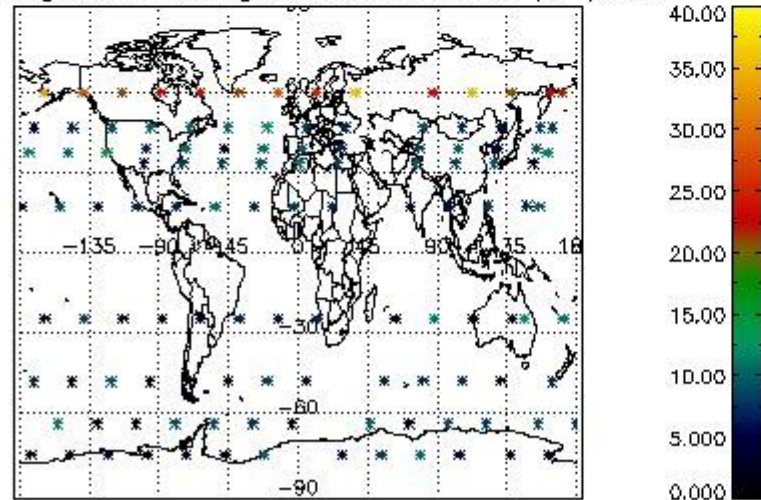
Percentage of cosmic ray hits per profile



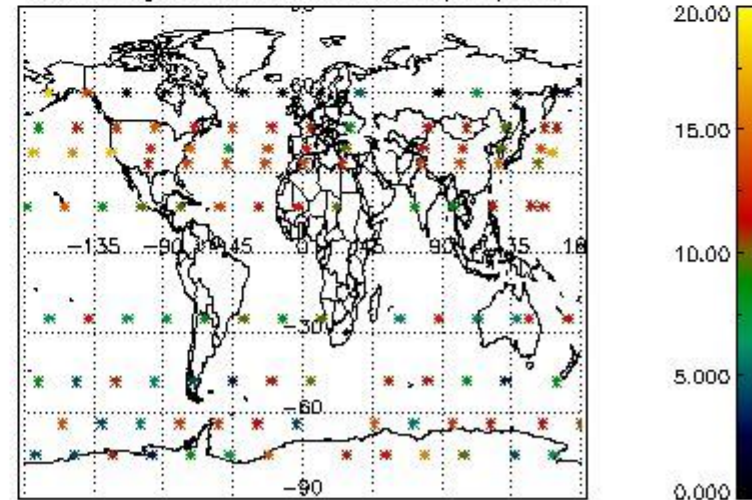
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/o3\_std of the level 2 products. The table below shows the statistics for given STD ranges.

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

- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

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

- Products in dark limb illumination condition: GOM\_NL\_\_2P/NL\_SUMMARY\_QUALITY/obs\_ill\_cond=0
- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

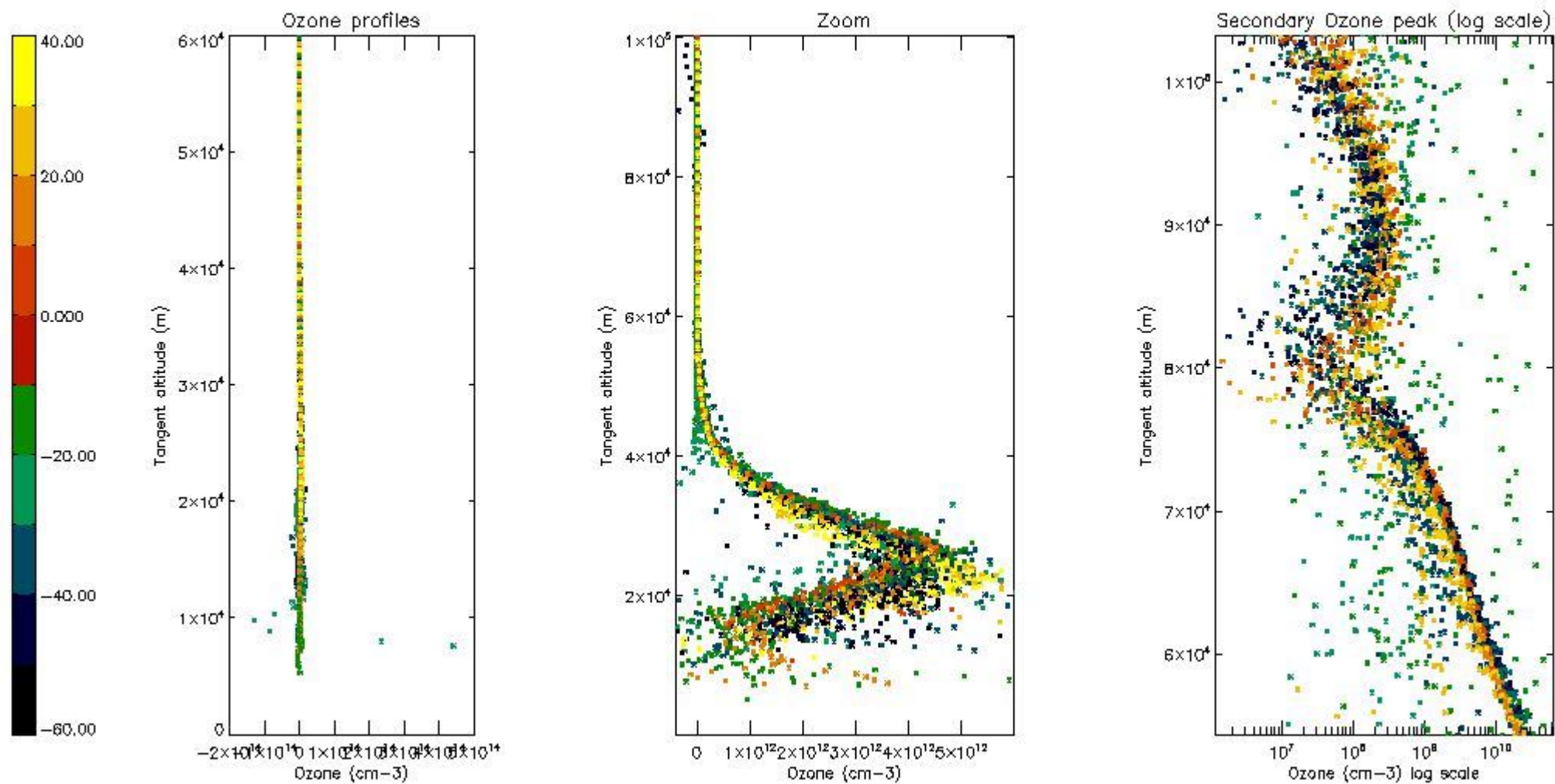
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	41
STD < 20	21

STD < 10	17
STD < 5	10

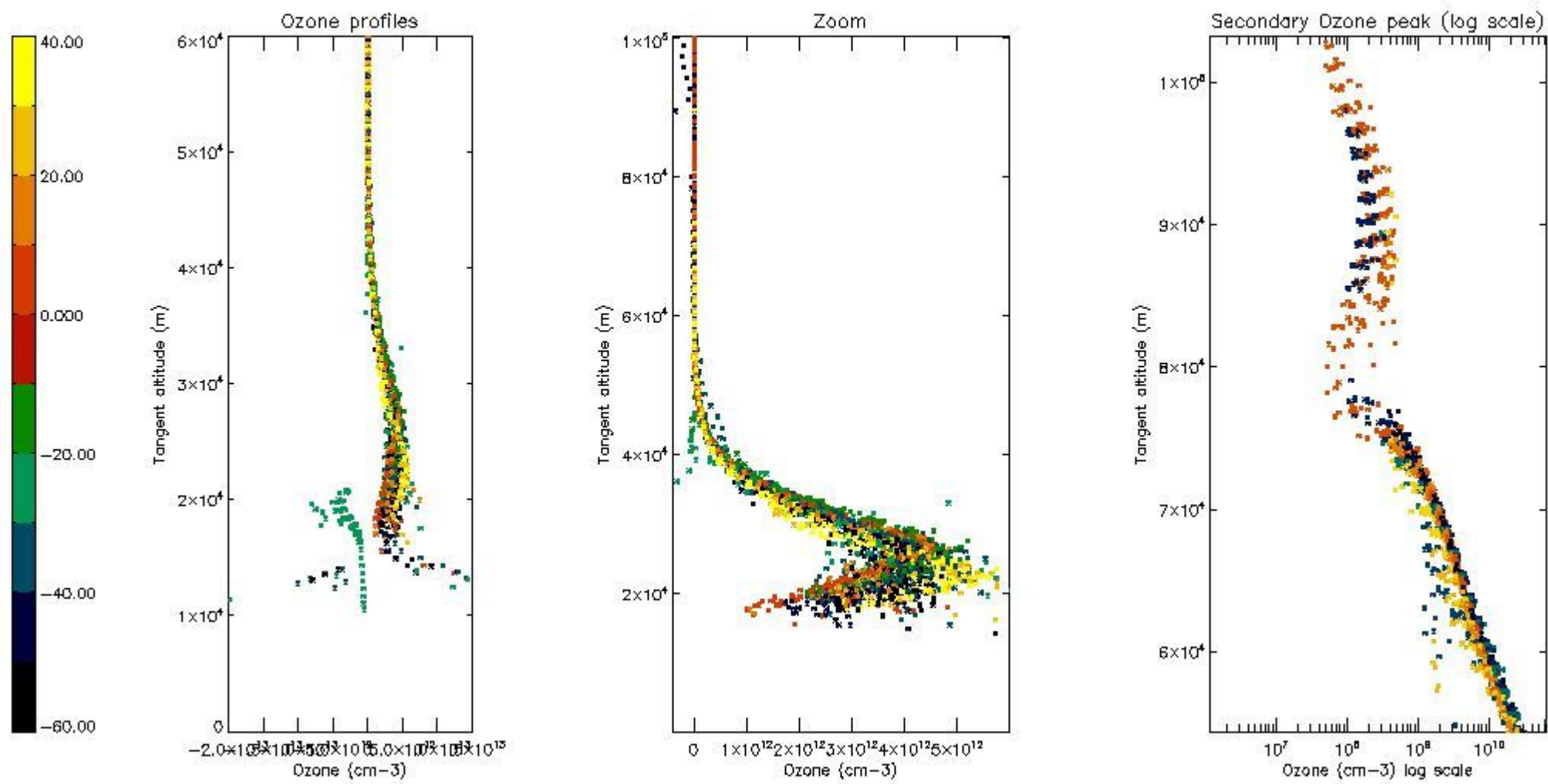
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



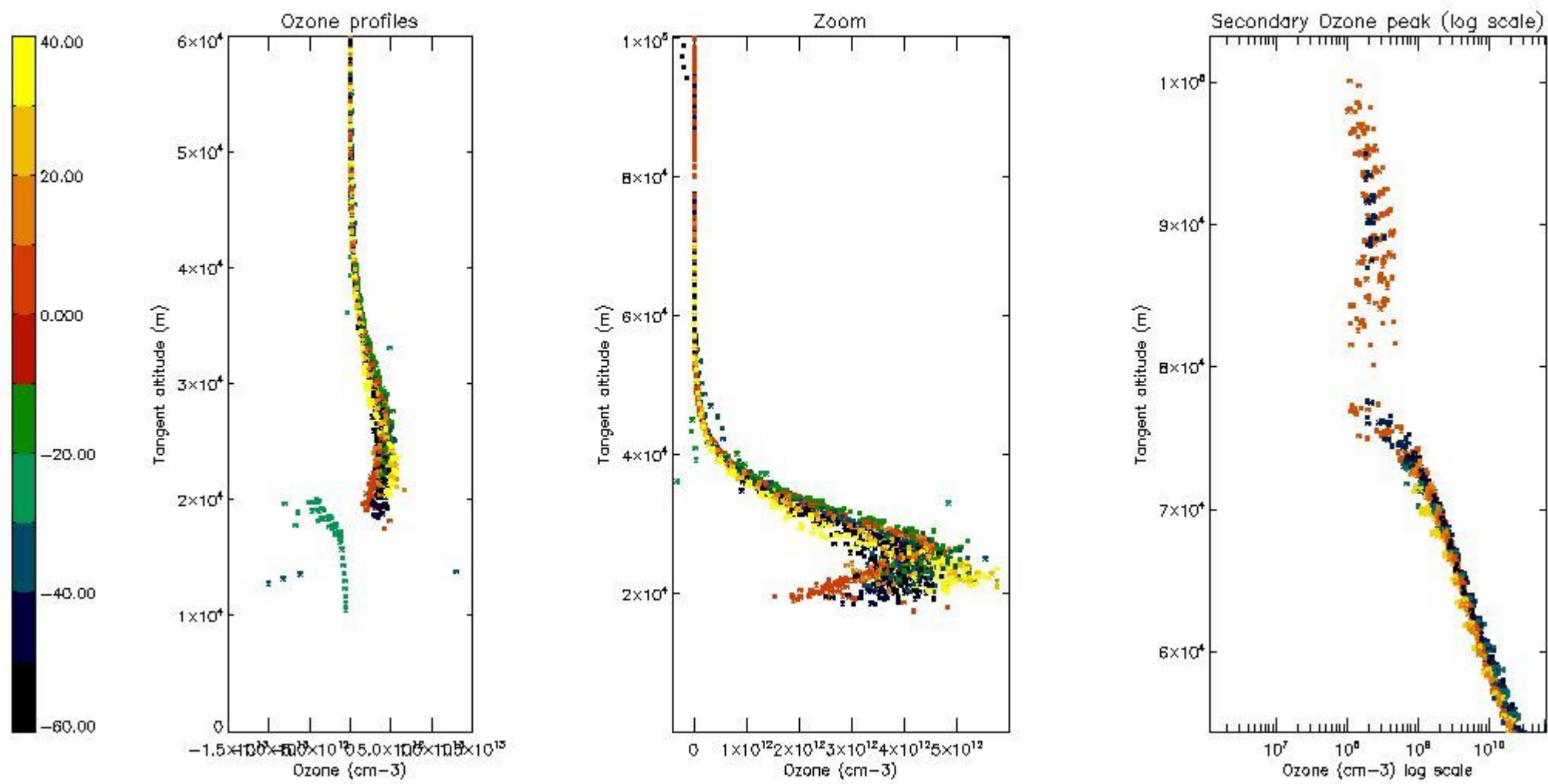
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



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

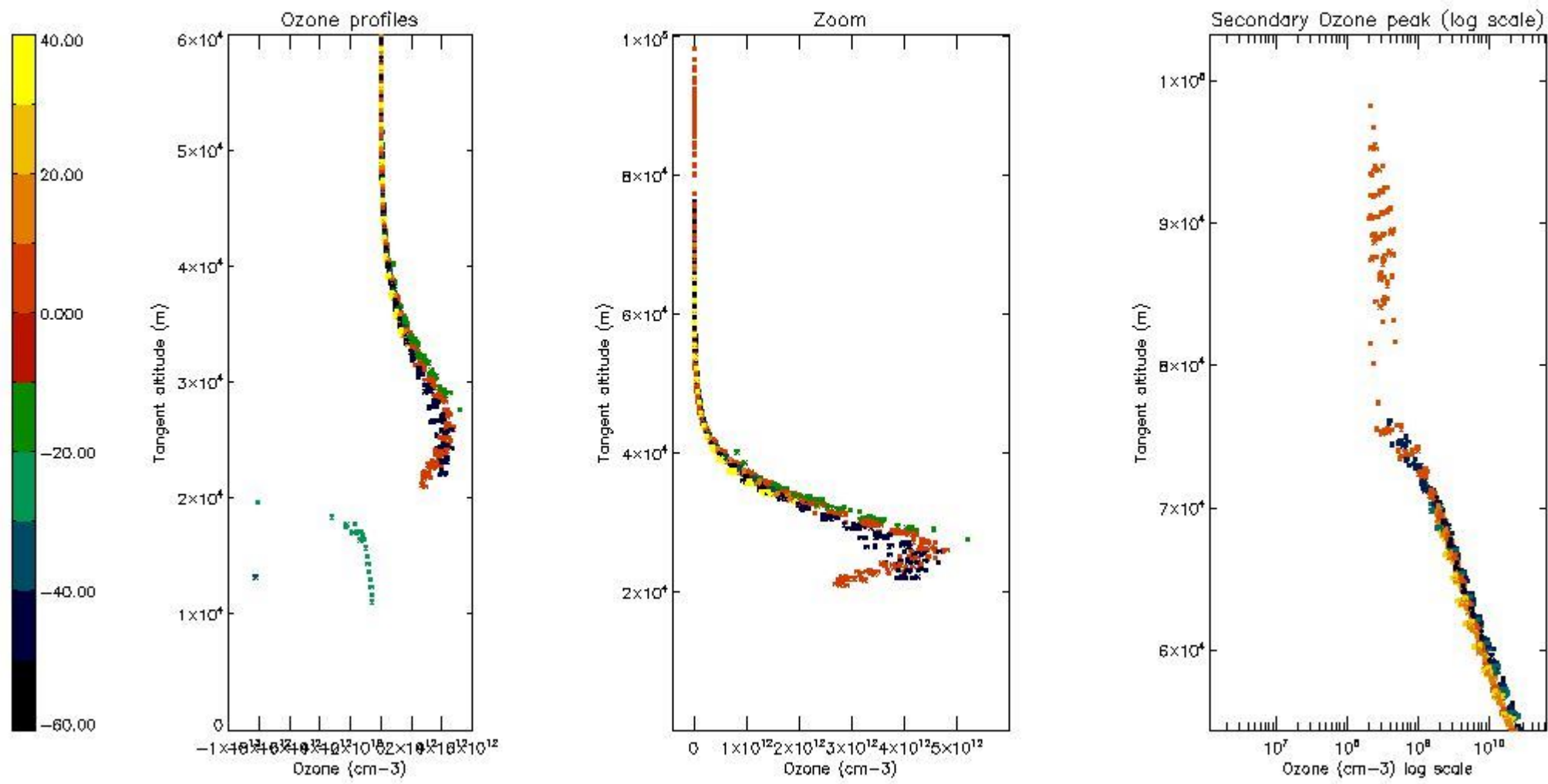
The colorbar represents the latitude.



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

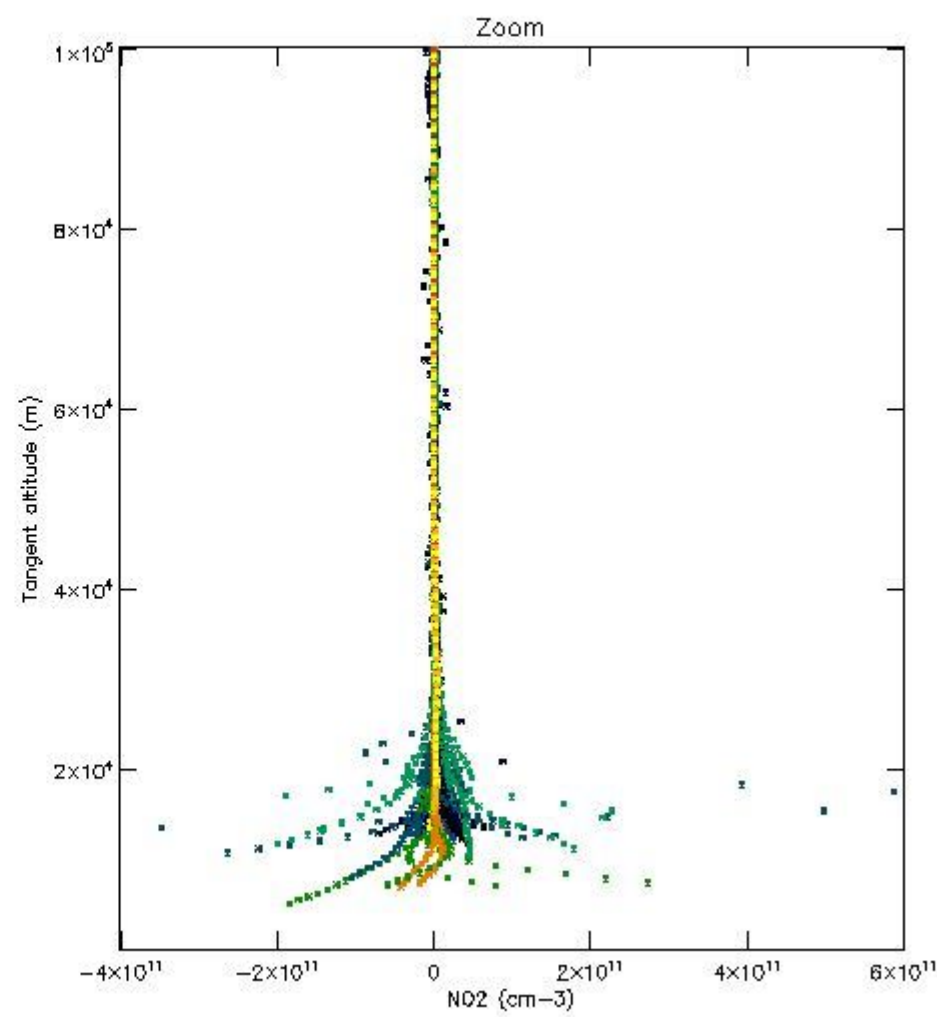
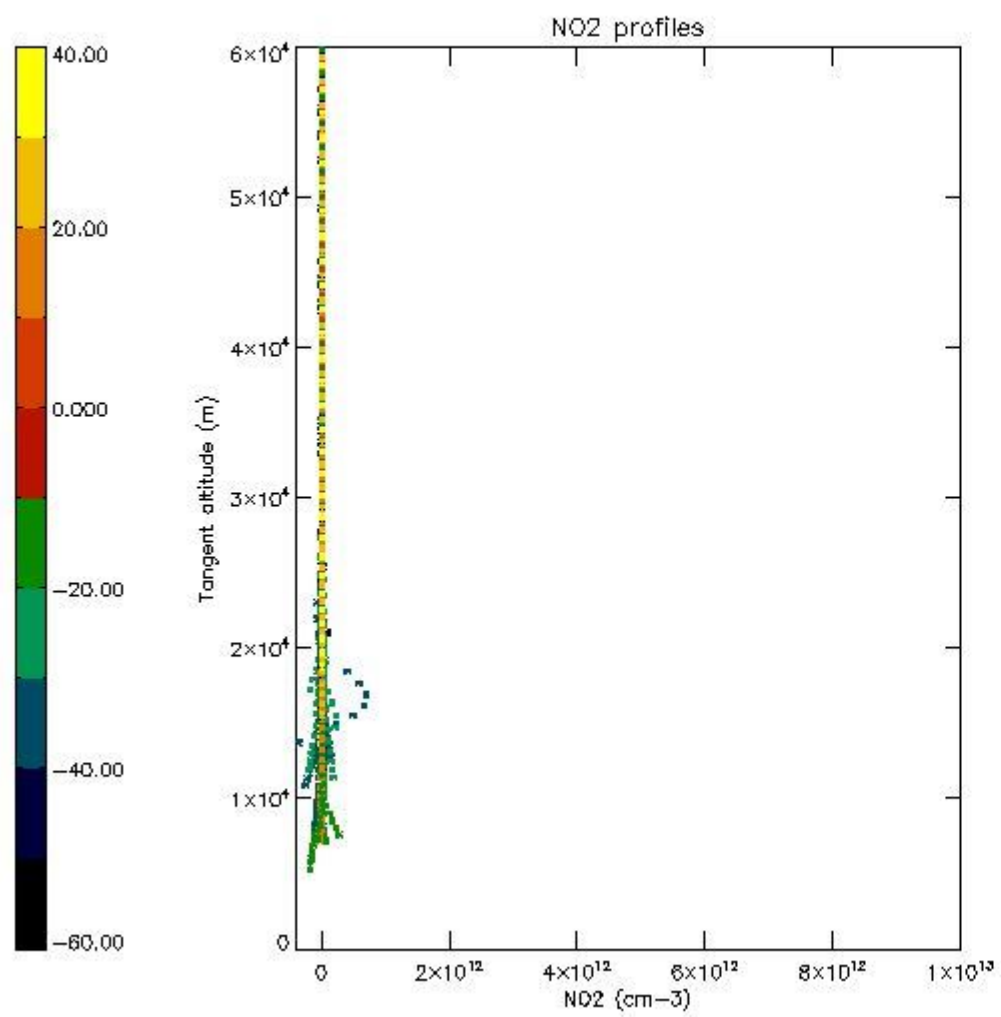
The colorbar represents the latitude.





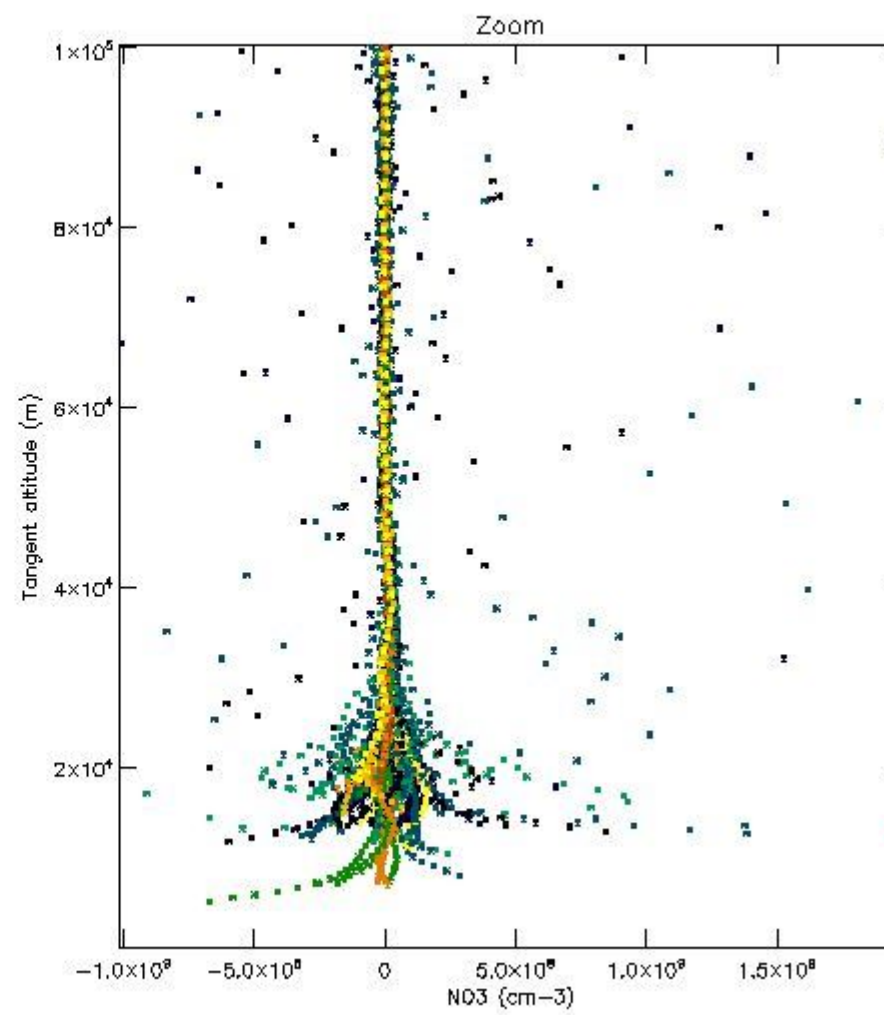
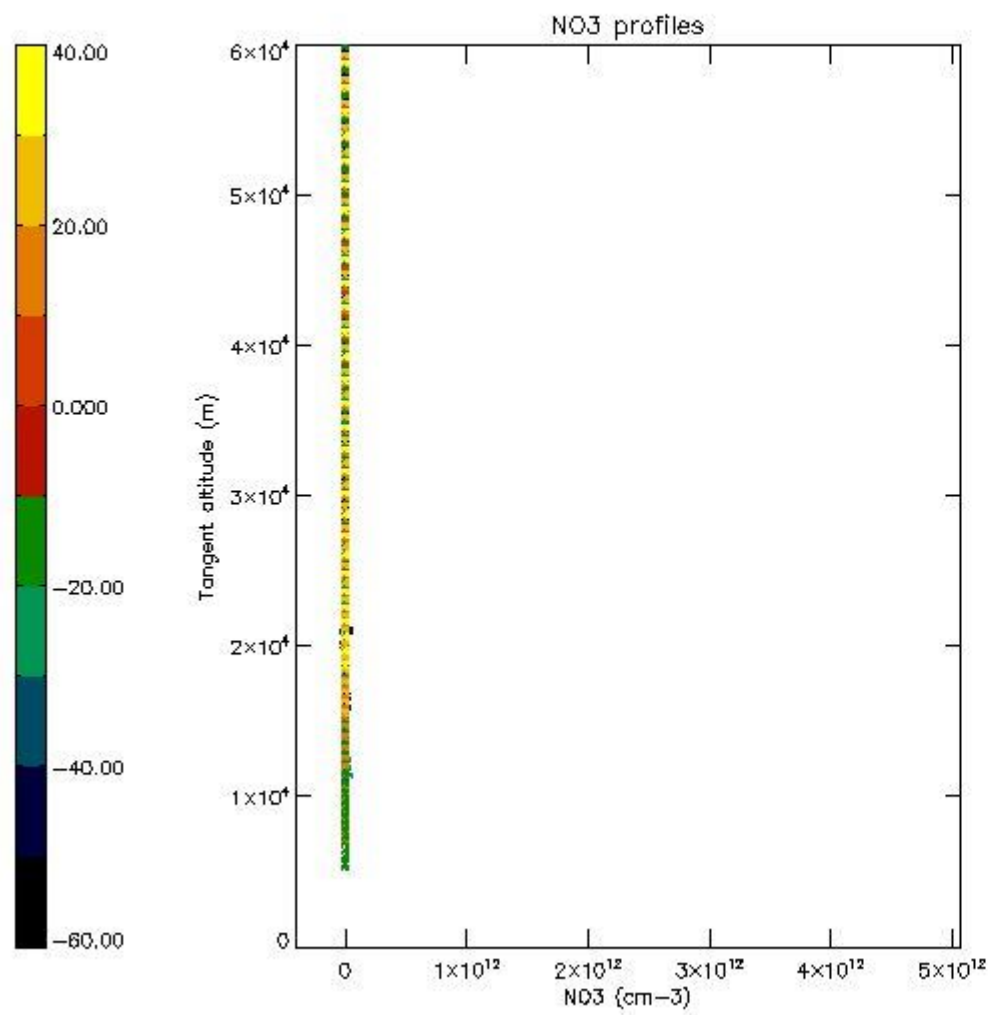
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

The colorbar represents the latitude.



## 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	09-FEB-2008 00:07:39
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	09-FEB-2008 00:07:39
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	09-FEB-2008 00:07:39

# GOMOS Level 2 Daily Report

## SUMMARY

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

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

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

#### [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	25APR2013 10:16:01
Data source version	GOMOS/6.01
Start time of products	09-02-2008 (09FEB2008 00:00:00)
Stop time of products	10-02-2008 (10FEB2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	327
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__2PRFIN20080209_000739_000000452065_00460_31075_4409.N1	09-FEB-2008 00:07:39	Twilight	44.500	8	10Alp CMi	0.40000	6500.0	89	31075	No
2	GOM_NL__2PRFIN20080209_001122_000000372065_00460_31075_4410.N1	09-FEB-2008 00:11:22	Bright	36.500	44	24Gam Gem	1.9280	11000.	73	31075	No
3	GOM_NL__2PRFIN20080209_001339_000000372065_00460_31075_4411.N1	09-FEB-2008 00:13:39	Bright	36.500	170	27Eps Gem	3.0000	9700.0	73	31075	No
4	GOM_NL__2PRFIN20080209_001511_000000352065_00460_31075_4412.N1	09-FEB-2008 00:15:11	Bright	35.000	24	66Alp Gem	1.5800	10200.	70	31075	No
5	GOM_NL__2PRFIN20080209_001940_000000372065_00460_31075_4413.N1	09-FEB-2008 00:19:40	Bright	36.500	42	34Bet Aur	1.9000	10200.	73	31075	No
6	GOM_NL__2PRFIN20080209_003129_000000342065_00460_31075_4414.N1	09-FEB-2008 00:31:29	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	31075	No
7	GOM_NL__2PRFIN20080209_003804_000000342065_00460_31075_4415.N1	09-FEB-2008 00:38:04	Bright	33.500	89	5Alp Cep	2.4510	8000.0	67	31075	No
8	GOM_NL__2PRFIN20080209_004241_000000392065_00460_31075_4416.N1	09-FEB-2008 00:42:41	Bright	38.500	69	33Gam Dra	2.2310	3800.0	77	31075	No
9	GOM_NL__2PRFIN20080209_004618_000000362065_00460_31075_4417.N1	09-FEB-2008 00:46:18	Bright	36.000	5	3Alp Lyr	0.033000	11000.	72	31075	No
10	GOM_NL__2PRFIN20080209_005303_000000322065_00460_31075_4418.N1	09-FEB-2008 00:53:03	Bright	32.000	168	17Zet Aql	2.9860	11000.	64	31075	No
11	GOM_NL__2PRFIN20080209_010423_000000412065_00460_31075_4419.N1	09-FEB-2008 01:04:23	Twilight	41.000	137	22Lam Sgr	2.8240	4400.0	82	31075	No
12	GOM_NL__2PRFIN20080209_010541_000000452065_00460_31075_4420.N1	09-FEB-2008 01:05:41	Twilight	44.500	116	19Del Sgr	2.7000	4100.0	89	31075	No
13	GOM_NL__2PRFIN20080209_010651_000000392065_00460_31075_4421.N1	09-FEB-2008 01:06:51	Dark	38.500	38	20Eps Sgr	1.8360	11000.	77	31075	No
14	GOM_NL__2PRFIN20080209_010840_000000392065_00460_31075_4422.N1	09-FEB-2008 01:08:40	Dark	39.000	25	35Lam Sco	1.6200	28000.	78	31075	No
15	GOM_NL__2PRFIN20080209_011003_000000432065_00460_31075_4423.N1	09-FEB-2008 01:10:03	Dark	43.000	40	The Sco	1.8590	7100.0	86	31075	No
16	GOM_NL__2PRFIN20080209_011153_000000372065_00460_31075_4424.N1	09-FEB-2008 01:11:53	Dark	36.500	147	Alp Ara	2.8770	26000.	73	31075	No
17	GOM_NL__2PRFIN20080209_011323_000000392065_00460_31075_4425.N1	09-FEB-2008 01:13:23	Dark	39.000	141	Bet Ara	2.8400	4600.0	78	31075	No
18	GOM_NL__2PRFIN20080209_011709_000000502065_00461_31076_4413.N1	09-FEB-2008 01:17:09	Dark	49.500	43	Alp TrA	1.9100	4250.0	99	31076	No
19	GOM_NL__2PRFIN20080209_012343_000000472065_00461_31076_4414.N1	09-FEB-2008 01:23:43	Dark	46.500	12	Alp1Cru	0.77500	30000.	93	31076	No
20	GOM_NL__2PRFIN20080209_012642_000000382065_00461_31076_4415.N1	09-FEB-2008 01:26:42	Dark	37.500	29	Bet Car	1.6720	10200.	75	31076	No
21	GOM_NL__2PRFIN20080209_012912_000000372065_00461_31076_4416.N1	09-FEB-2008 01:29:12	Dark	37.000	71	lot Car	2.2460	7700.0	74	31076	No
22	GOM_NL__2PRFIN20080209_013053_000000372065_00461_31076_4417.N1	09-FEB-2008 01:30:53	Dark	37.000	46	Del Vel	1.9540	10600.	74	31076	No
23	GOM_NL__2PRFIN20080209_013320_000000412065_00461_31076_4418.N1	09-FEB-2008 01:33:20	Straylight	40.500	34	Gam2Vel	1.7930	23000.	81	31076	No
24	GOM_NL__2PRFIN20080209_013524_000000402065_00461_31076_4419.N1	09-FEB-2008 01:35:24	Straylight	39.500	70	Zet Pup	2.2460	39000.	79	31076	No
25	GOM_NL__2PRFIN20080209_013945_000000442065_00461_31076_4420.N1	09-FEB-2008 01:39:45	Straylight	43.500	37	25Del CMa	1.8300	5900.0	87	31076	No
26	GOM_NL__2PRFIN20080209_014815_000000442065_00461_31076_4421.N1	09-FEB-2008 01:48:15	Twilight	43.500	8	10Alp CMi	0.40000	6500.0	87	31076	No
27	GOM_NL__2PRFIN20080209_015158_000000362065_00461_31076_4422.N1	09-FEB-2008 01:51:58	Bright	36.000	44	24Gam Gem	1.9280	11000.	72	31076	No
28	GOM_NL__2PRFIN20080209_015415_000000362065_00461_31076_4423.N1	09-FEB-2008 01:54:15	Bright	35.500	170	27Eps Gem	3.0000	9700.0	71	31076	No
29	GOM_NL__2PRFIN20080209_015546_000000382065_00461_31076_4424.N1	09-FEB-2008 01:55:46	Bright	37.500	24	66Alp Gem	1.5800	10200.	75	31076	No
30	GOM_NL__2PRFIN20080209_020016_000000372065_00461_31076_4425.N1	09-FEB-2008 02:00:16	Bright	36.500	42	34Bet Aur	1.9000	10200.	73	31076	No
31	GOM_NL__2PRFIN20080209_021205_000000342065_00461_31076_4426.N1	09-FEB-2008 02:12:05	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	31076	No
32	GOM_NL__2PRFIN20080209_021840_000000352065_00461_31076_4427.N1	09-FEB-2008 02:18:40	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	31076	No
33	GOM_NL__2PRFIN20080209_022317_000000392065_00461_31076_4428.N1	09-FEB-2008 02:23:17	Bright	39.000	69	33Gam Dra	2.2310	3800.0	78	31076	No
34	GOM_NL__2PRFIN20080209_022654_000000392065_00461_31076_4429.N1	09-FEB-2008 02:26:54	Bright	38.500	5	3Alp Lyr	0.033000	11000.	77	31076	No
35	GOM_NL__2PRFIN20080209_023339_000000512065_00461_31076_4430.N1	09-FEB-2008 02:33:39	Bright	51.000	168	17Zet Aql	2.9860	11000.	102	31076	No
36	GOM_NL__2PRFIN20080209_024459_000000432065_00461_31076_4431.N1	09-FEB-2008 02:44:59	Twilight	43.000	137	22Lam Sgr	2.8240	4400.0	86	31076	No
37	GOM_NL__2PRFIN20080209_024617_000000432065_00461_31076_4432.N1	09-FEB-2008 02:46:17	Twilight	43.000	116	19Del Sgr	2.7000	4100.0	86	31076	No
38	GOM_NL__2PRFIN20080209_024727_000000422065_00461_31076_4433.N1	09-FEB-2008 02:47:27	Dark	41.500	38	20Eps Sgr	1.8360	11000.	83	31076	No
39	GOM_NL__2PRFIN20080209_024917_000000442065_00461_31076_4434.N1	09-FEB-2008 02:49:17	Dark	43.500	25	35Lam Sco	1.6200	28000.	87	31076	No
40	GOM_NL__2PRFIN20080209_025039_000000422065_00461_31076_4435.N1	09-FEB-2008 02:50:39	Dark	42.000	40	The Sco	1.8590	7100.0	84	31076	No
41	GOM_NL__2PRFIN20080209_025229_000000362065_00461_31076_4436.N1	09-FEB-2008 02:52:29	Dark	36.000	147	Alp Ara	2.8770	26000.	72	31076	No
42	GOM_NL__2PRFIN20080209_025400_000000482065_00461_31076_4437.N1	09-FEB-2008 02:54:00	Dark	47.500	141	Bet Ara	2.8400	4600.0	95	31076	No



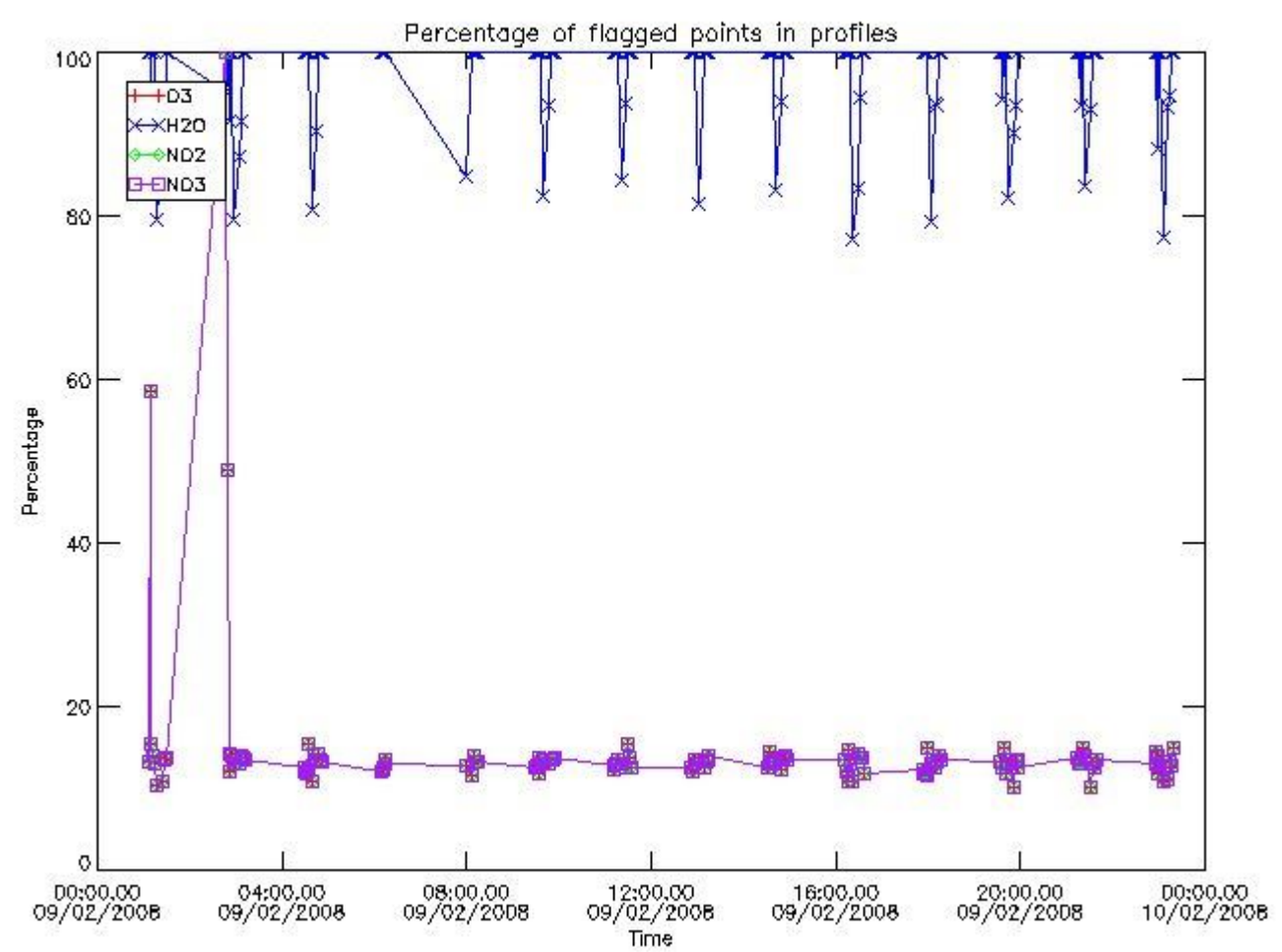






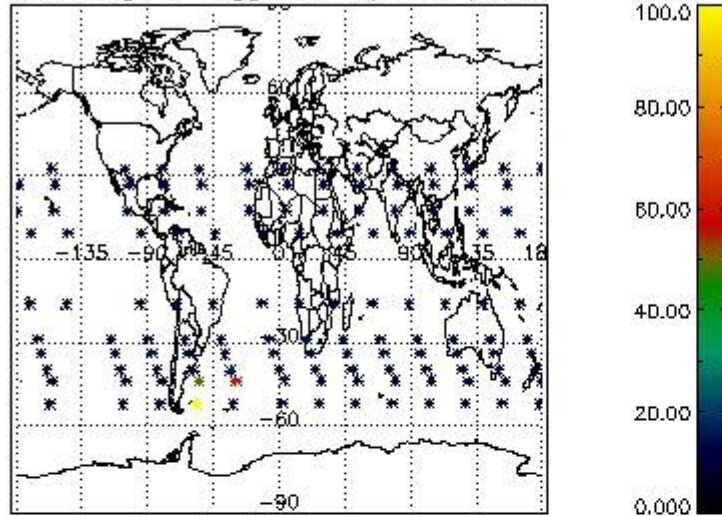




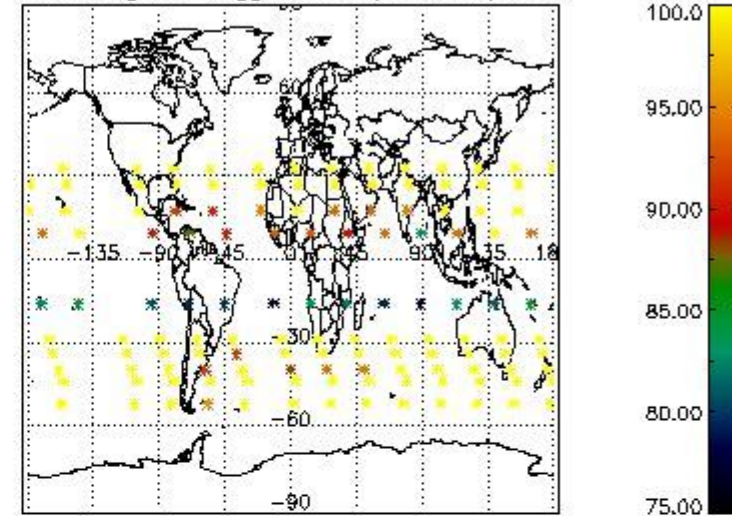


3.2 Plot quality information per product (world map)

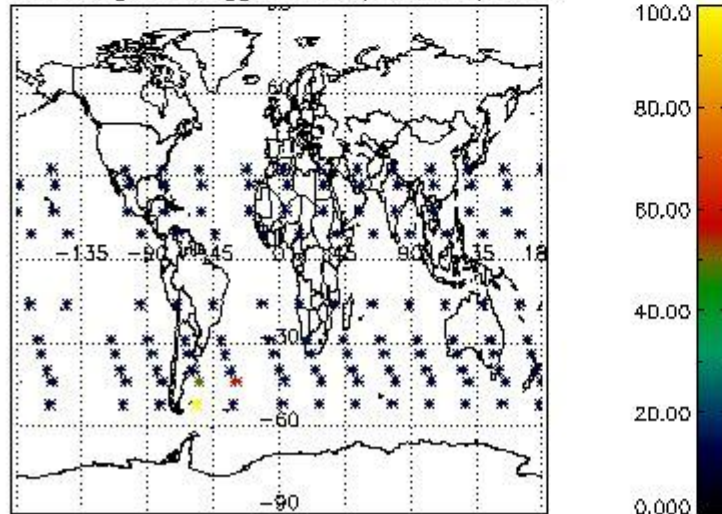
Percentage of flagged data per O3 profile



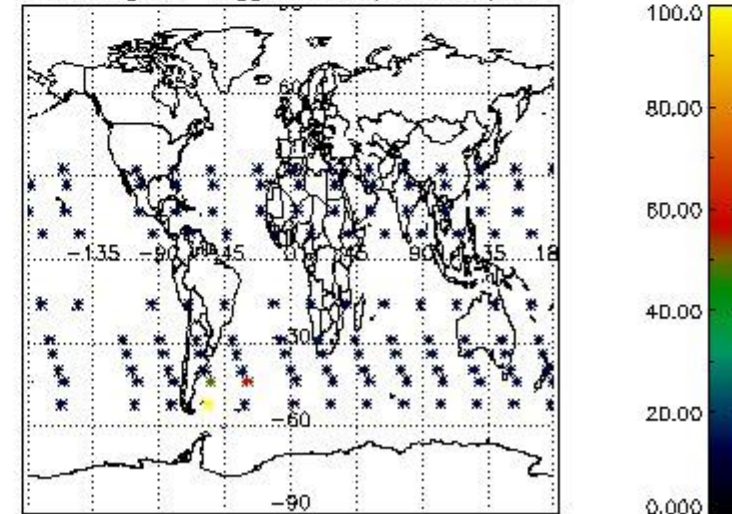
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

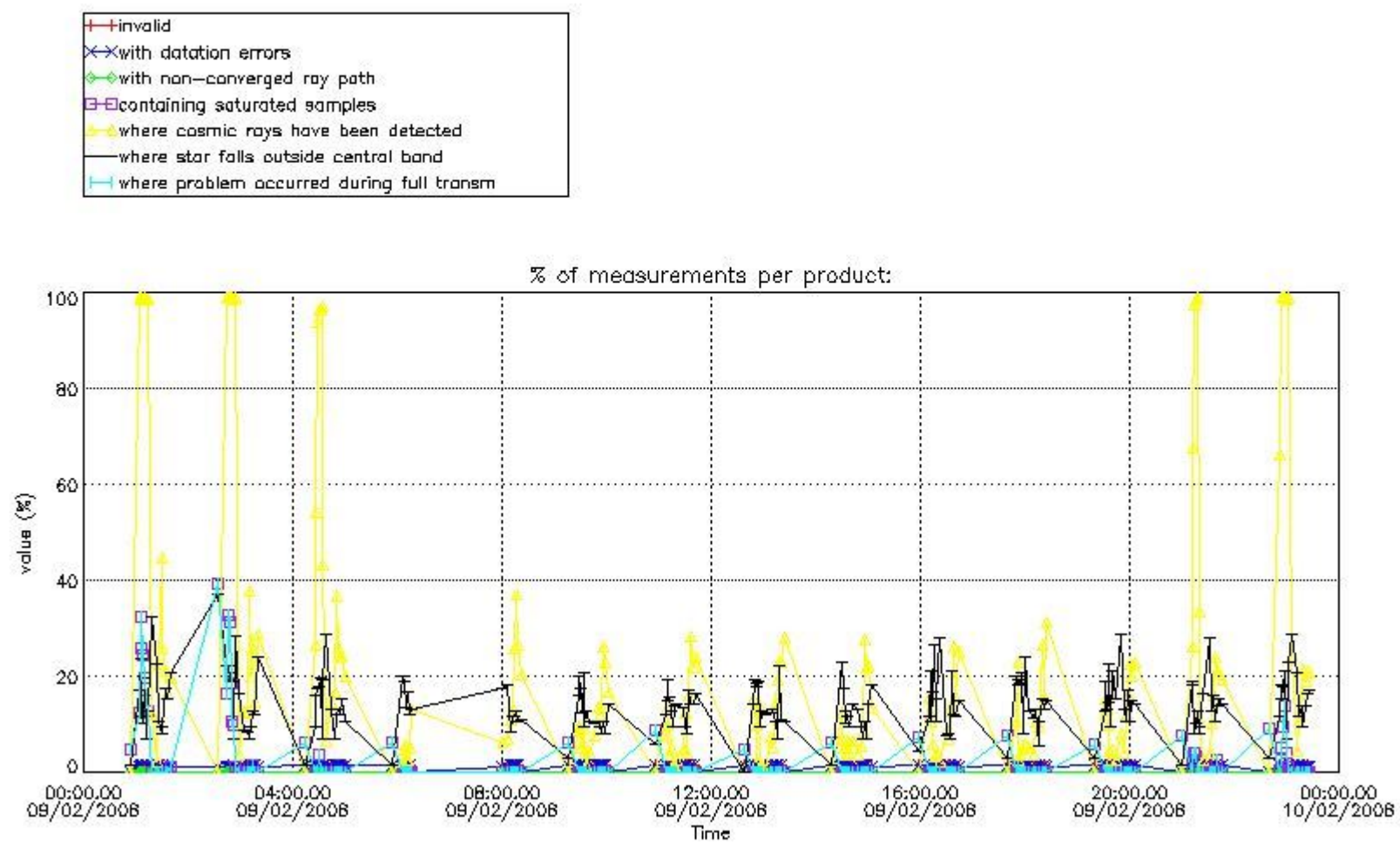


#### 4. Level 1 quality information per product

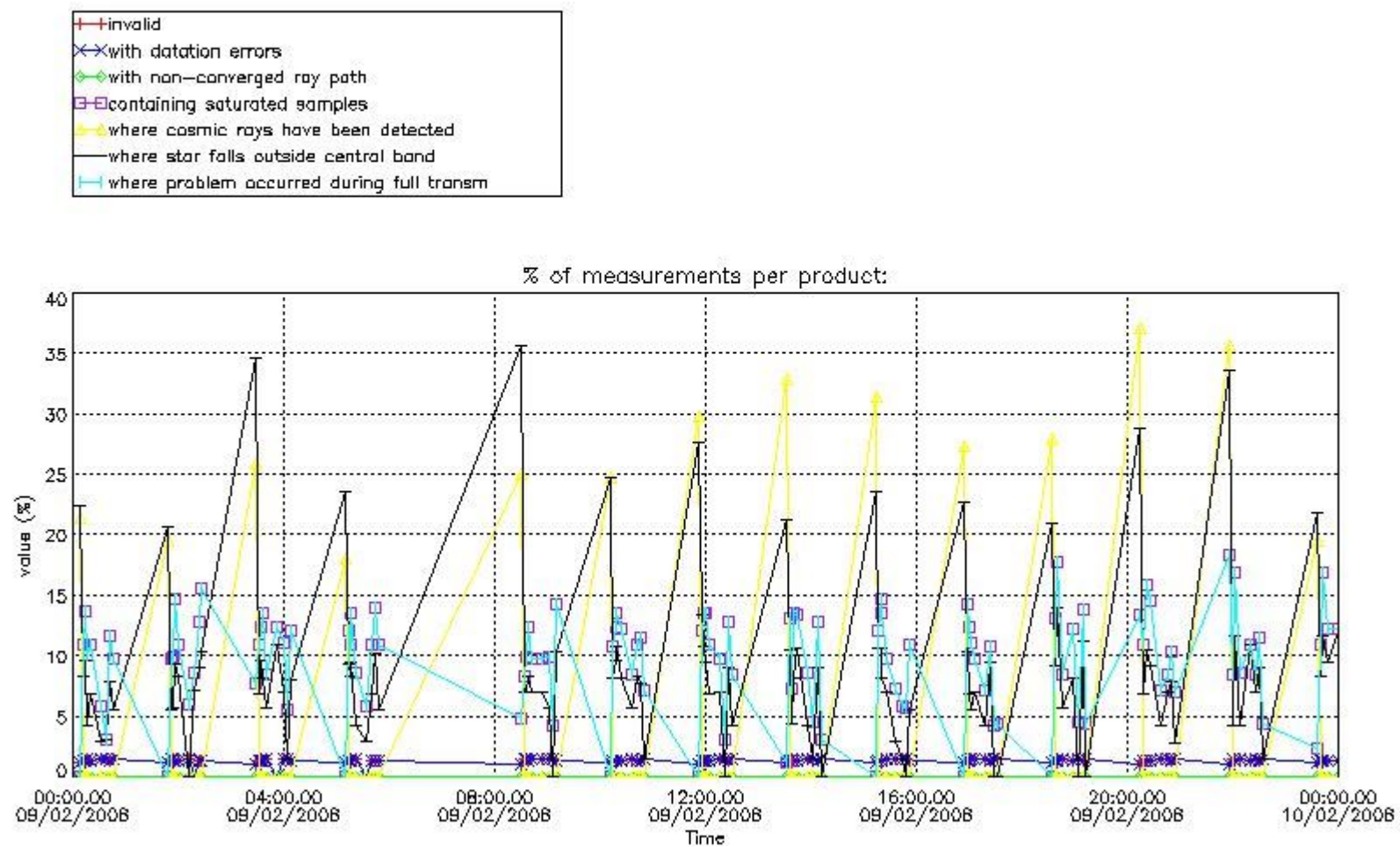
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



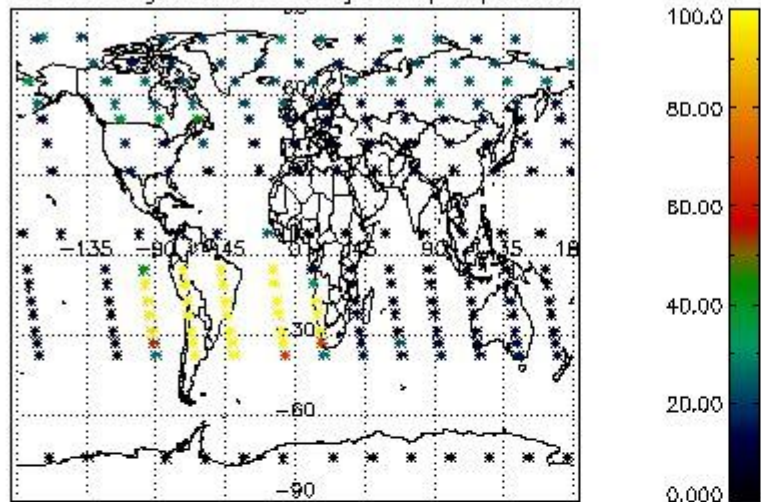
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



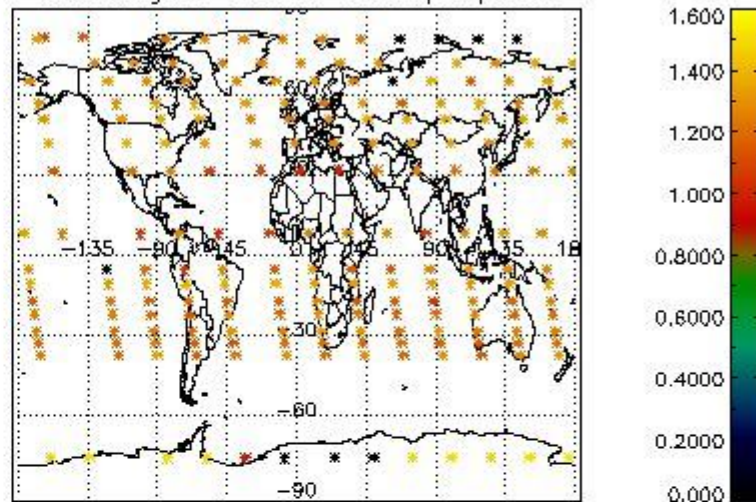
4.2 Plot quality information per product coming from level 1b processing (world map)

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

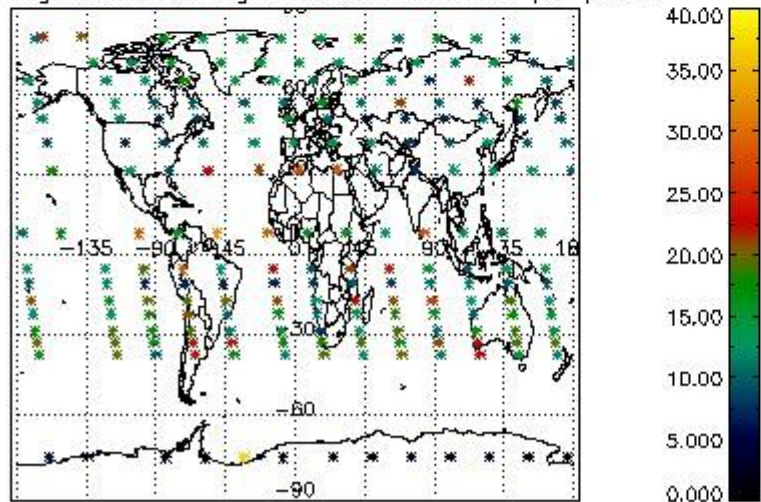
Percentage of cosmic ray hits per profile



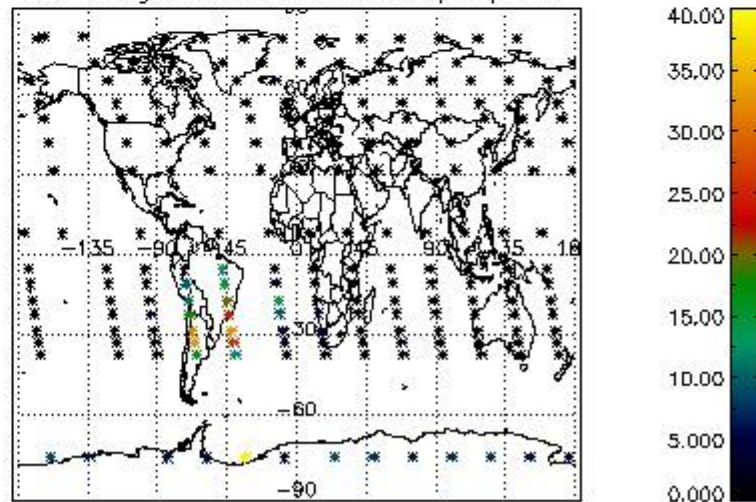
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

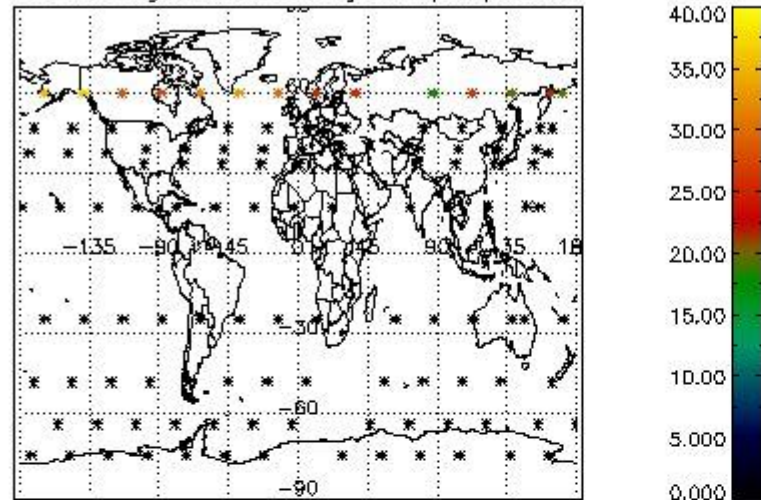


Percentage of saturation errors per profile

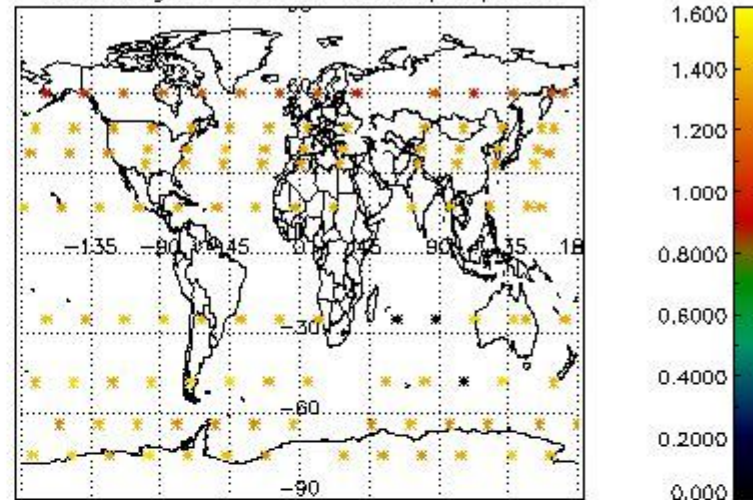


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

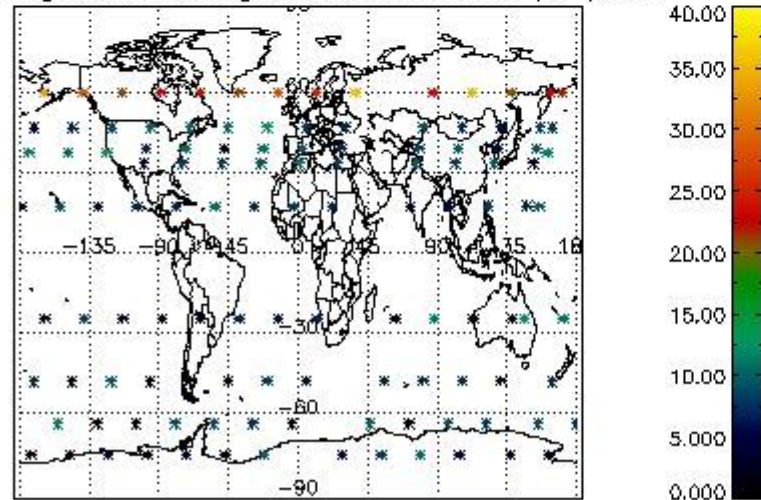
Percentage of cosmic ray hits per profile



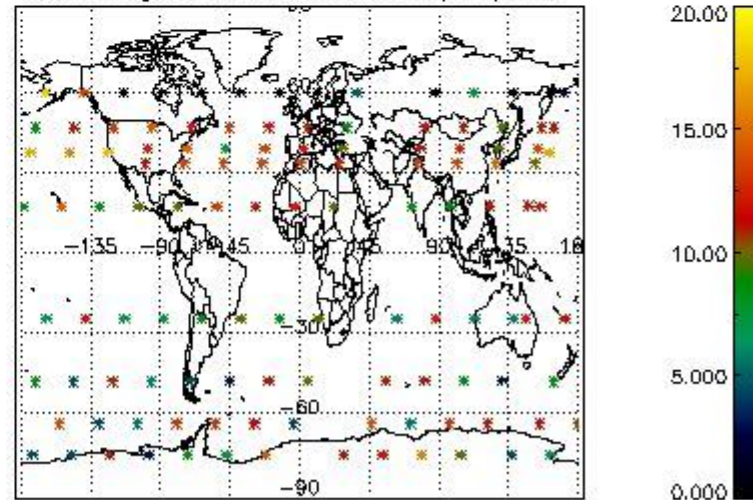
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/o3\_std of the level 2 products. The table below shows the statistics for given STD ranges.

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

- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

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

- Products in dark limb illumination condition: GOM\_NL\_\_2P/NL\_SUMMARY\_QUALITY/obs\_ill\_cond=0
- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

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

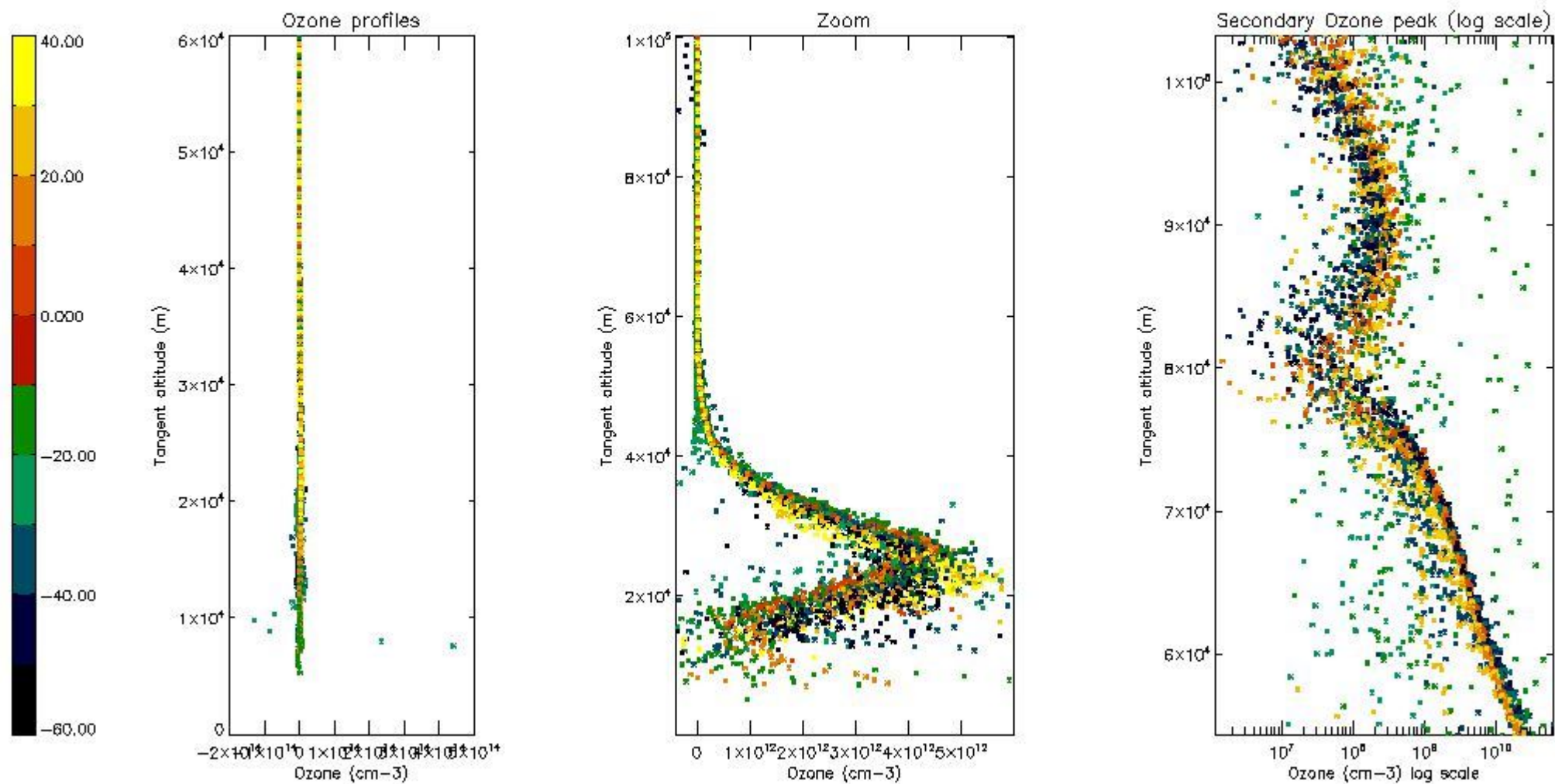
Criteria	% of total production
All STD	41
STD < 20	21



STD < 10	17
STD < 5	10

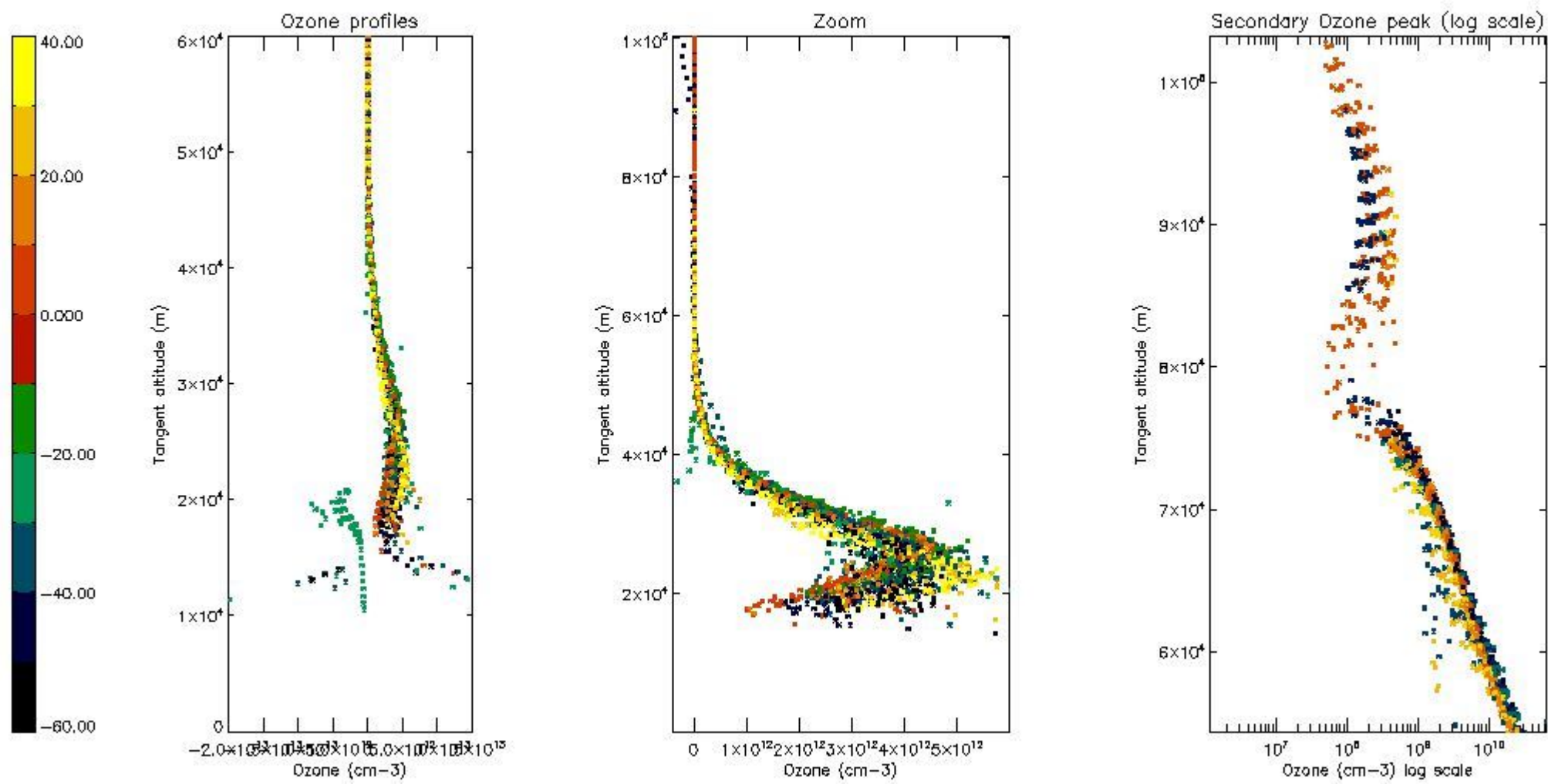
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



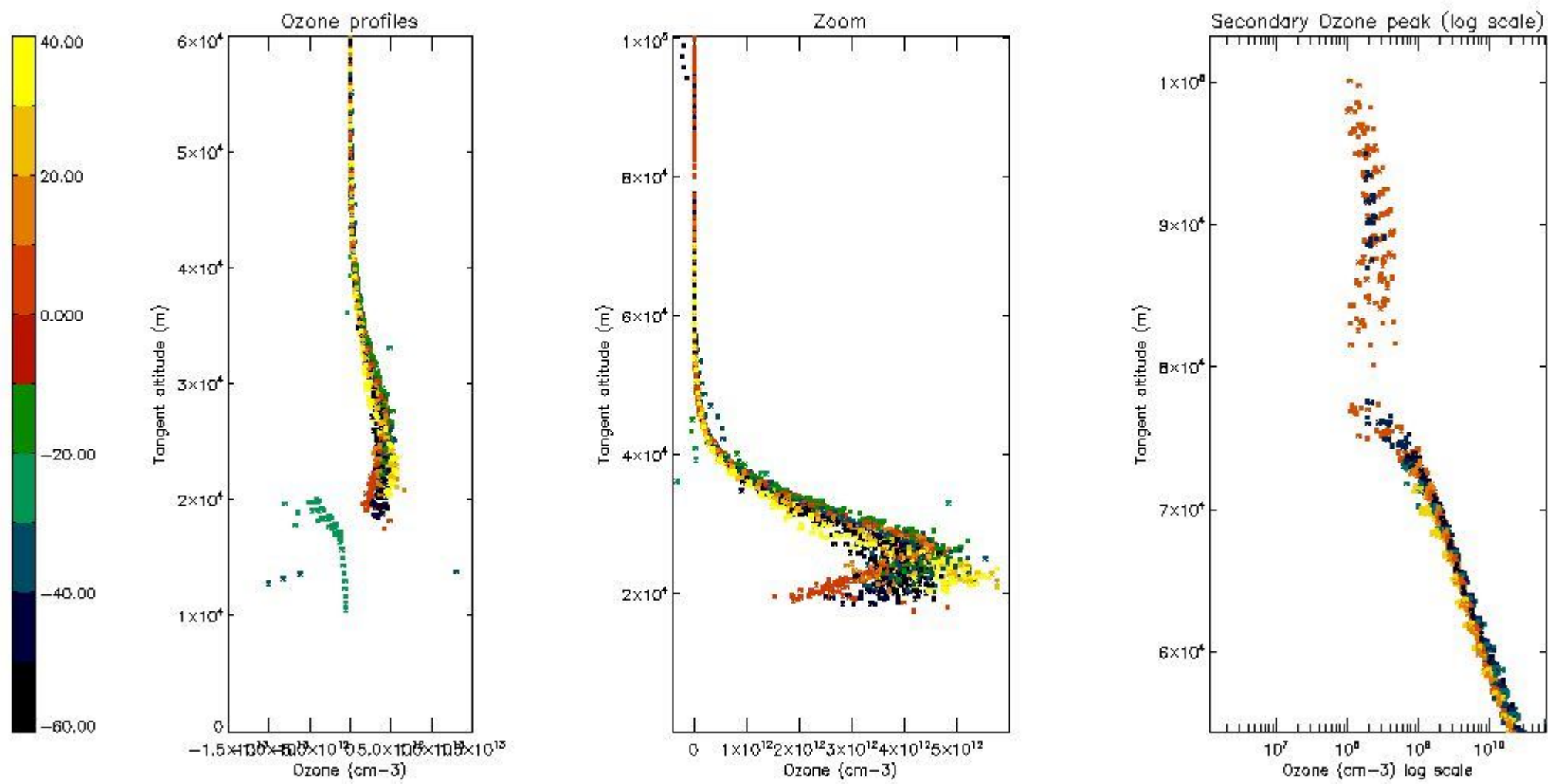
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



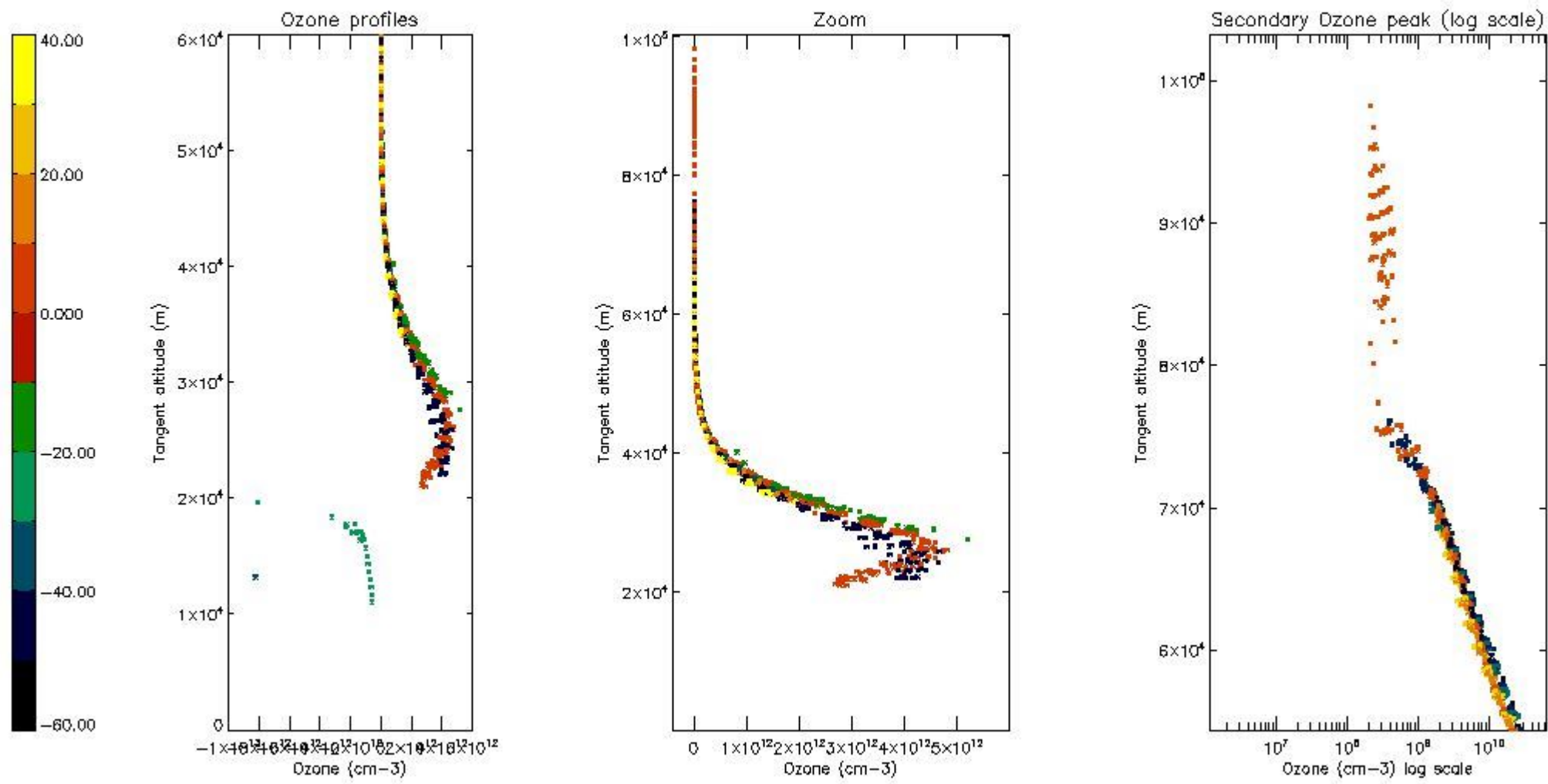
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



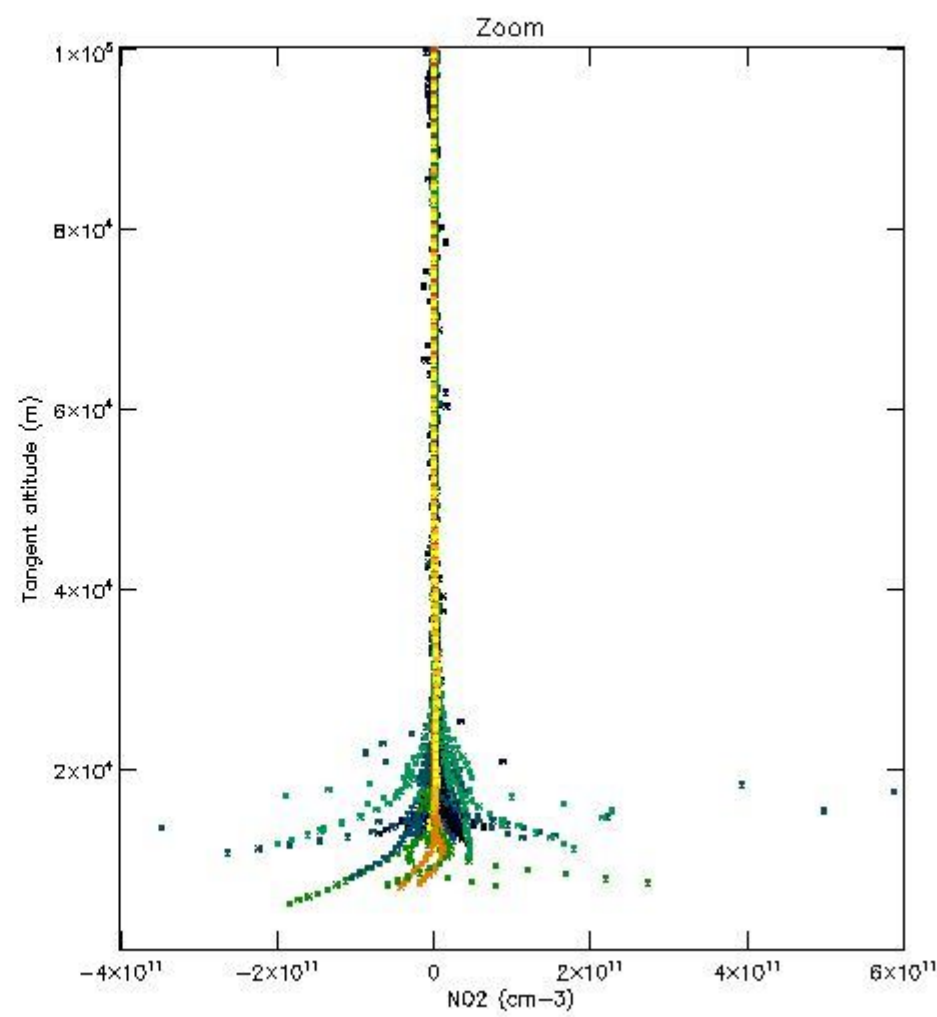
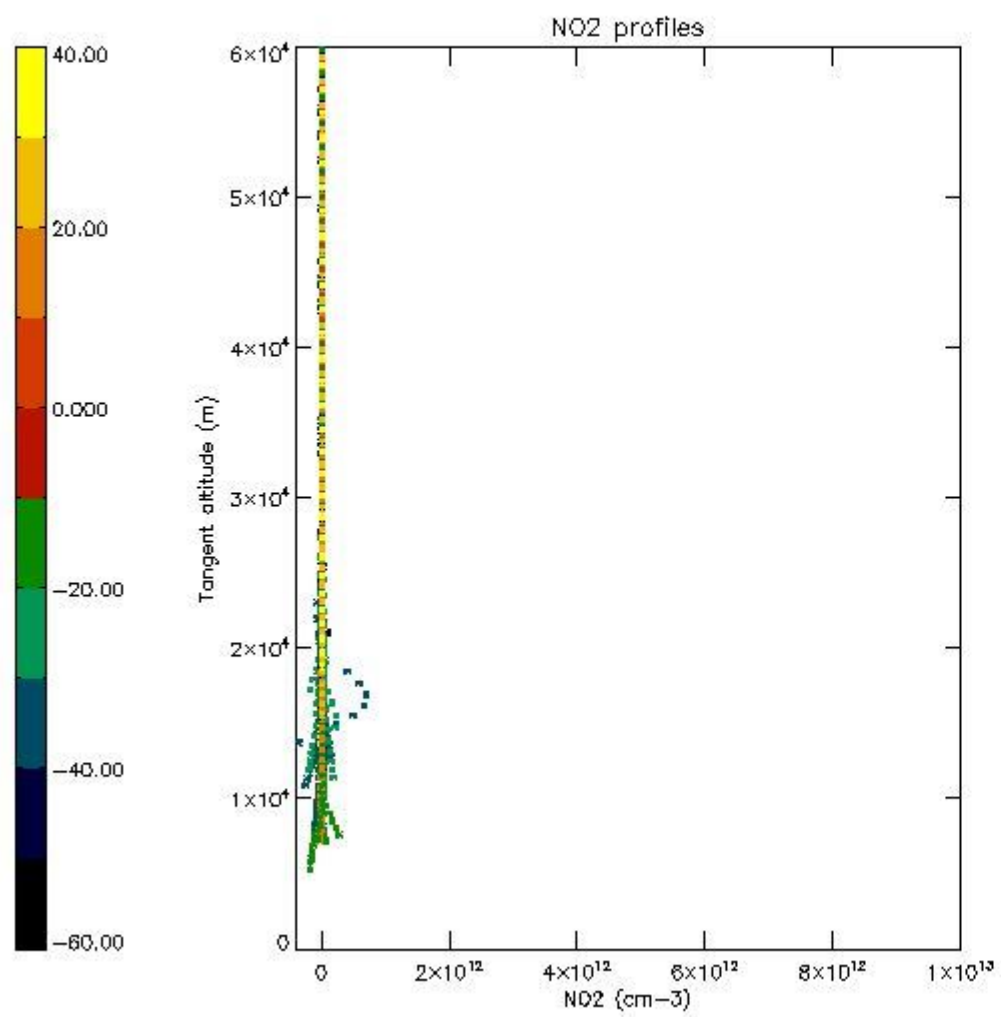
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



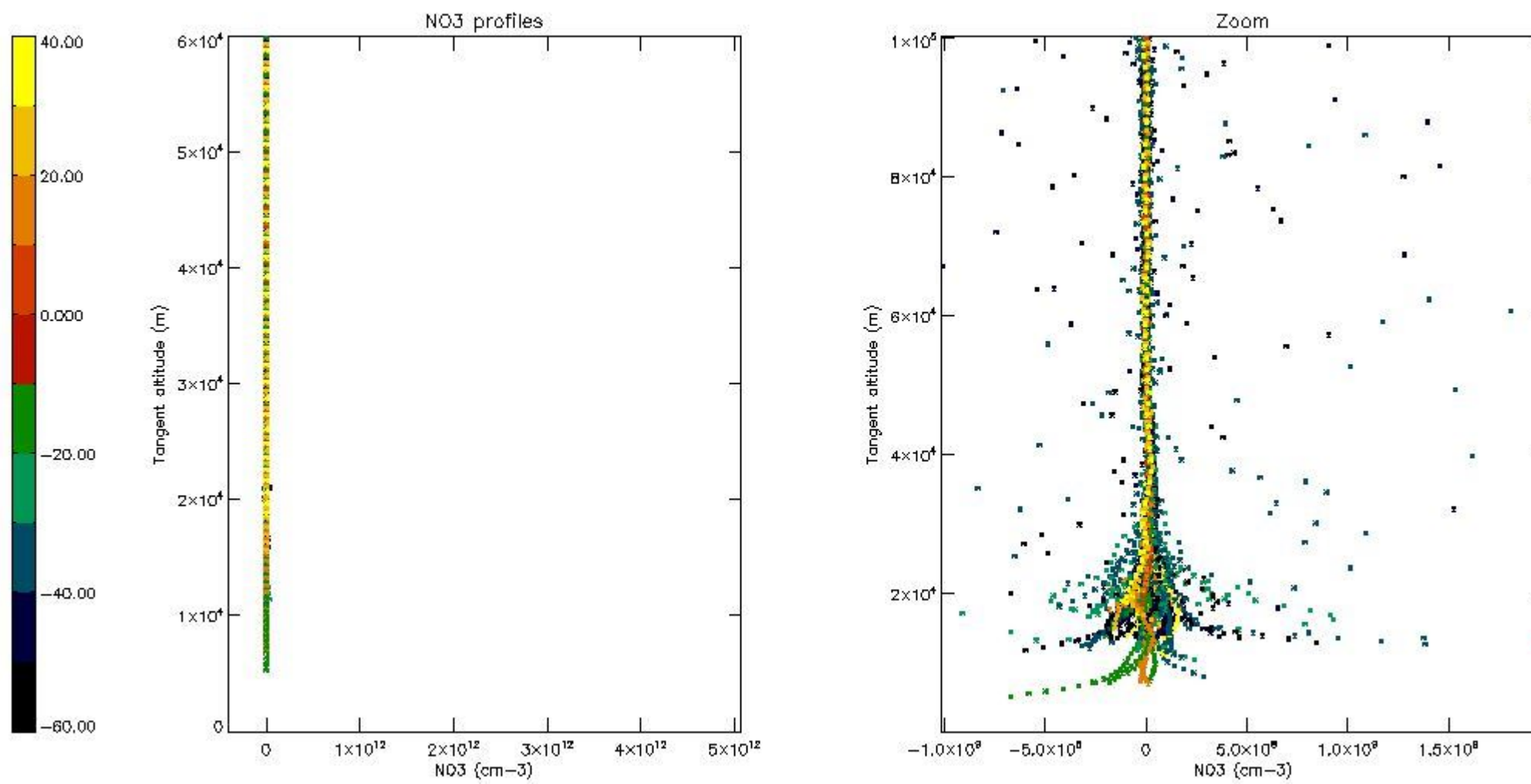
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

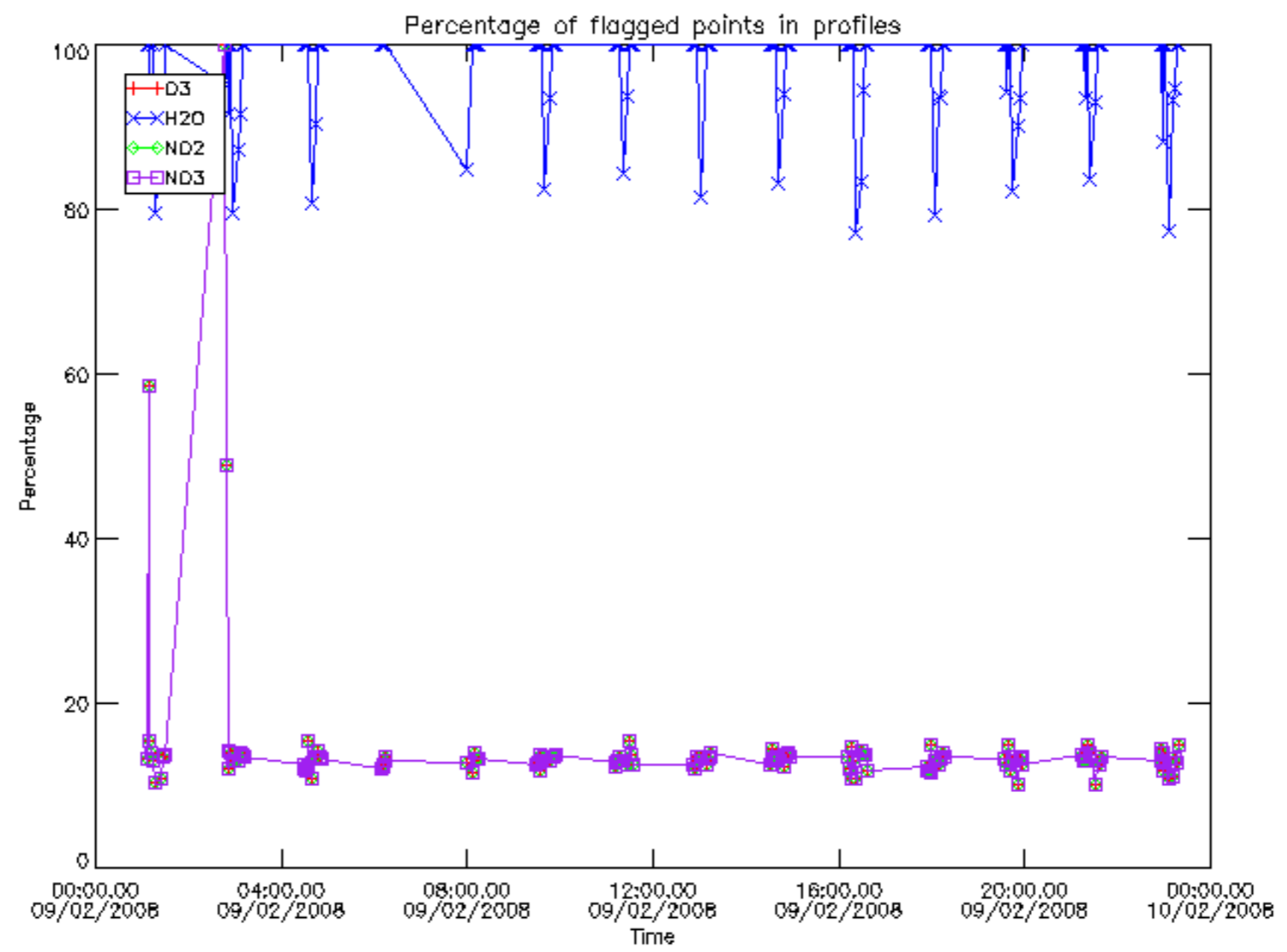
The colorbar represents the latitude.



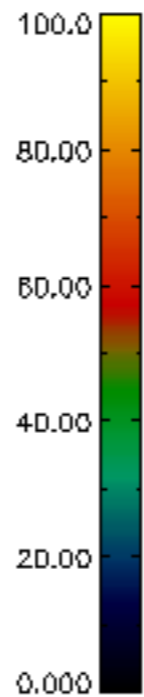
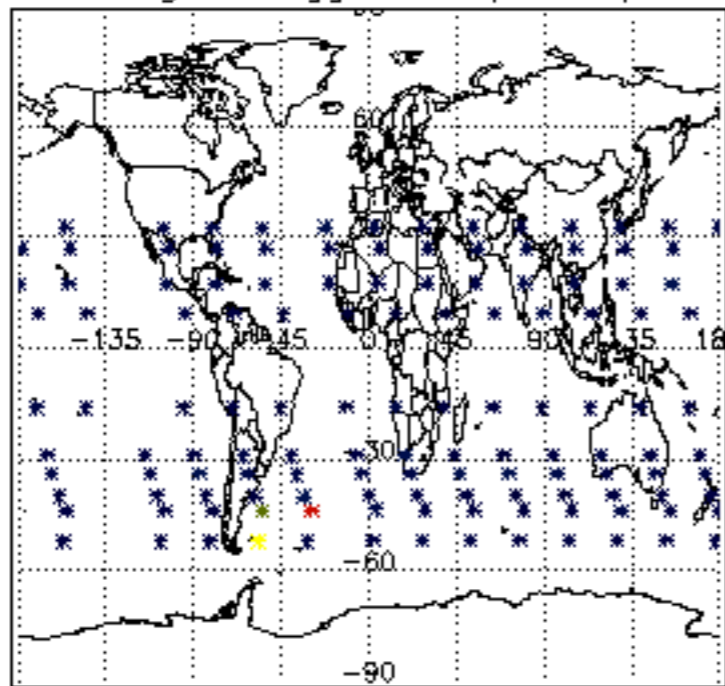
## 6. Auxiliary Data Files used for the production reported in section 2

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.

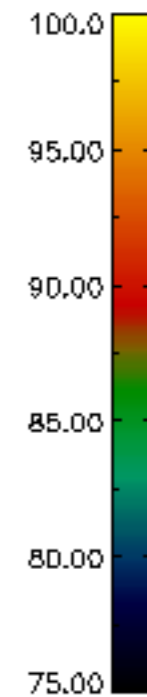
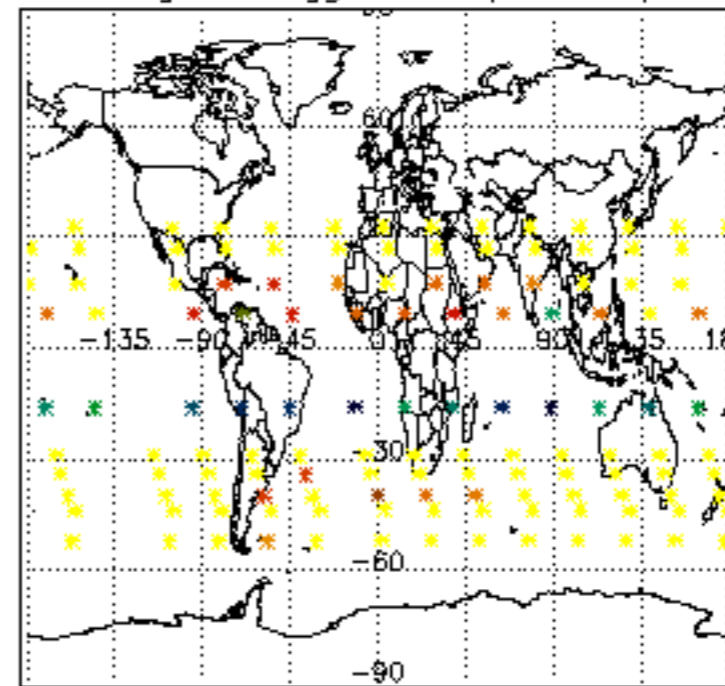
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	09-FEB-2008 00:07:39
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	09-FEB-2008 00:07:39
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	09-FEB-2008 00:07:39



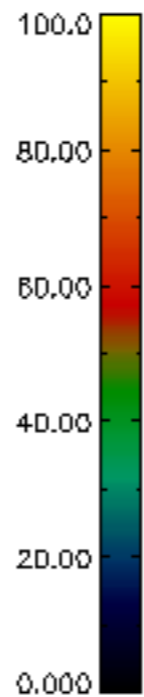
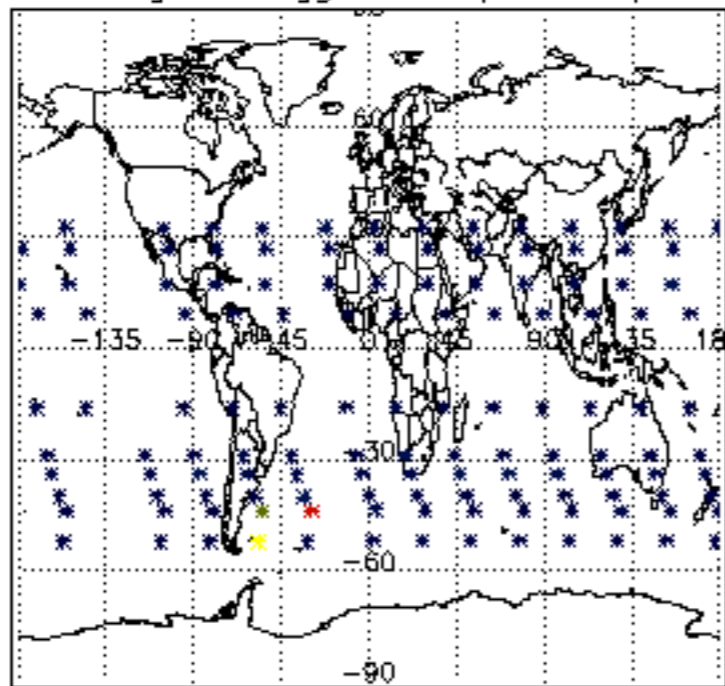
Percentage of flagged data per D3 profile



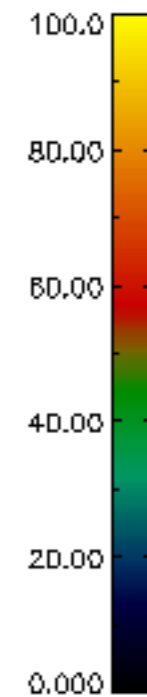
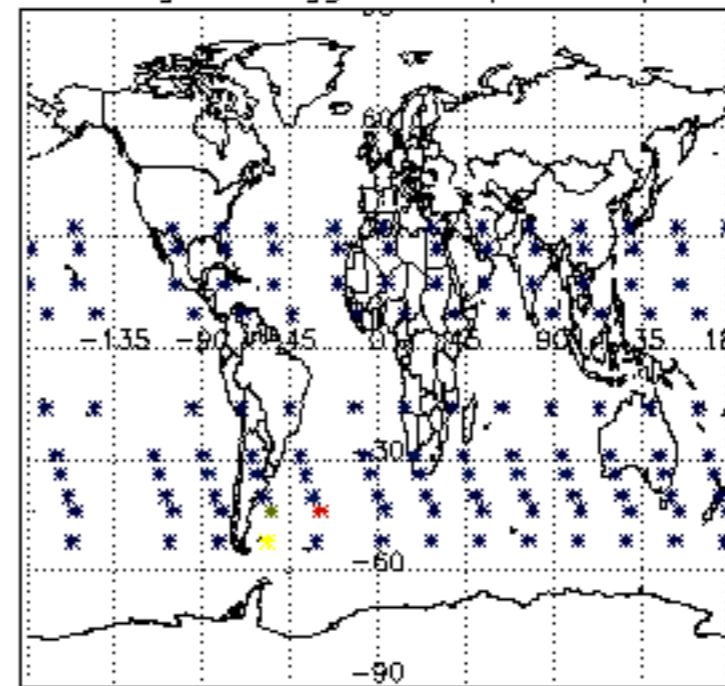
Percentage of flagged data per H2O profile



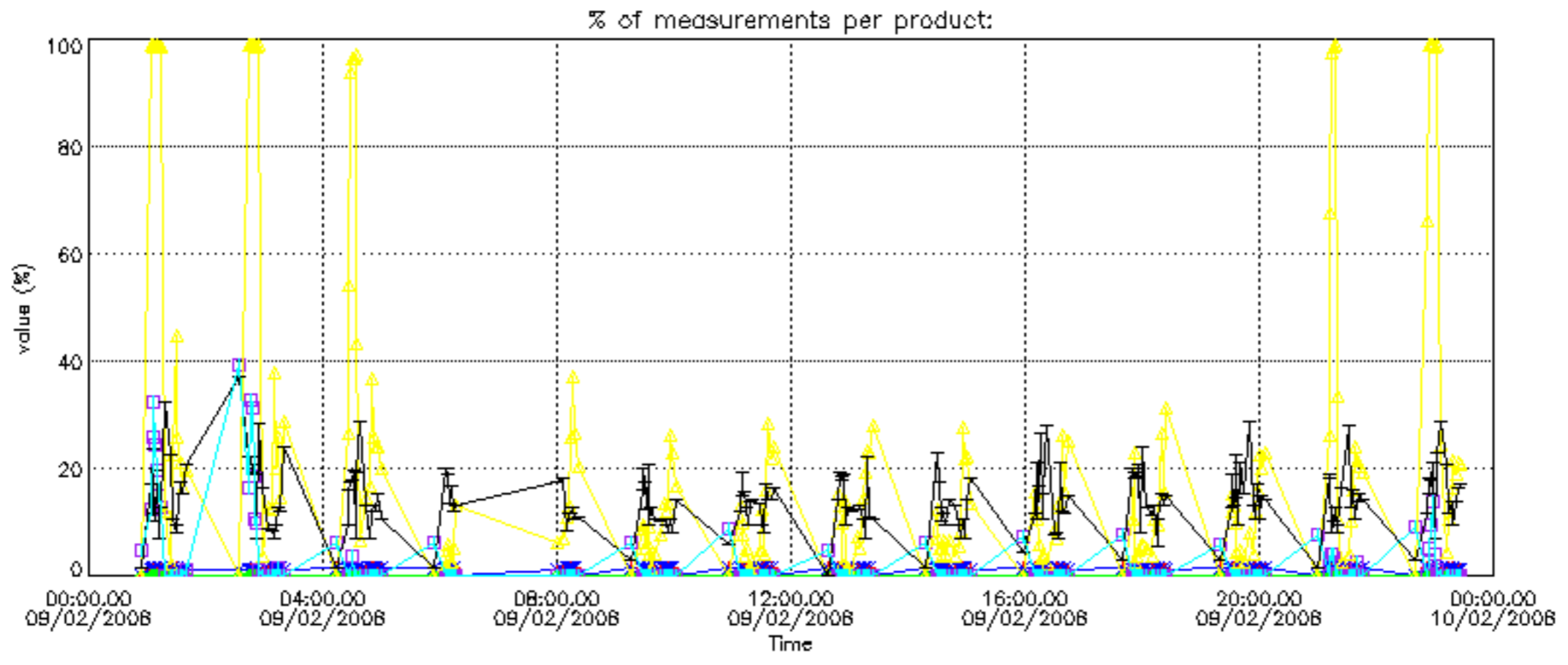
Percentage of flagged data per NO2 profile

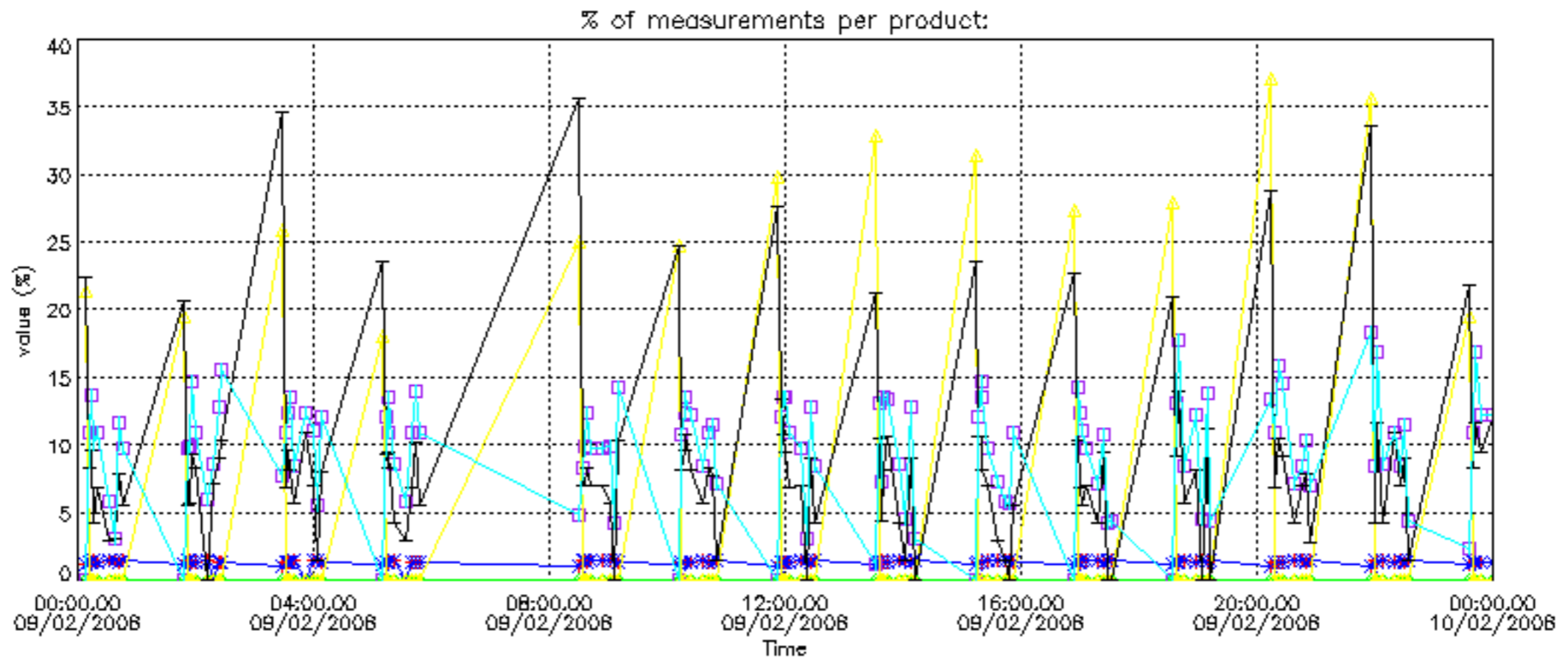


Percentage of flagged data per NO3 profile

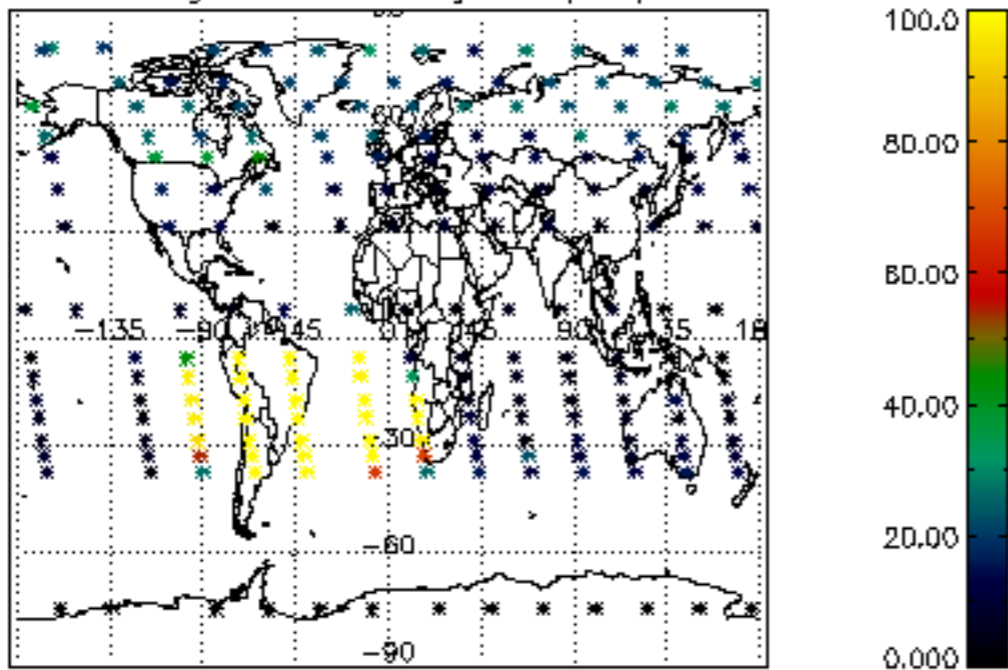




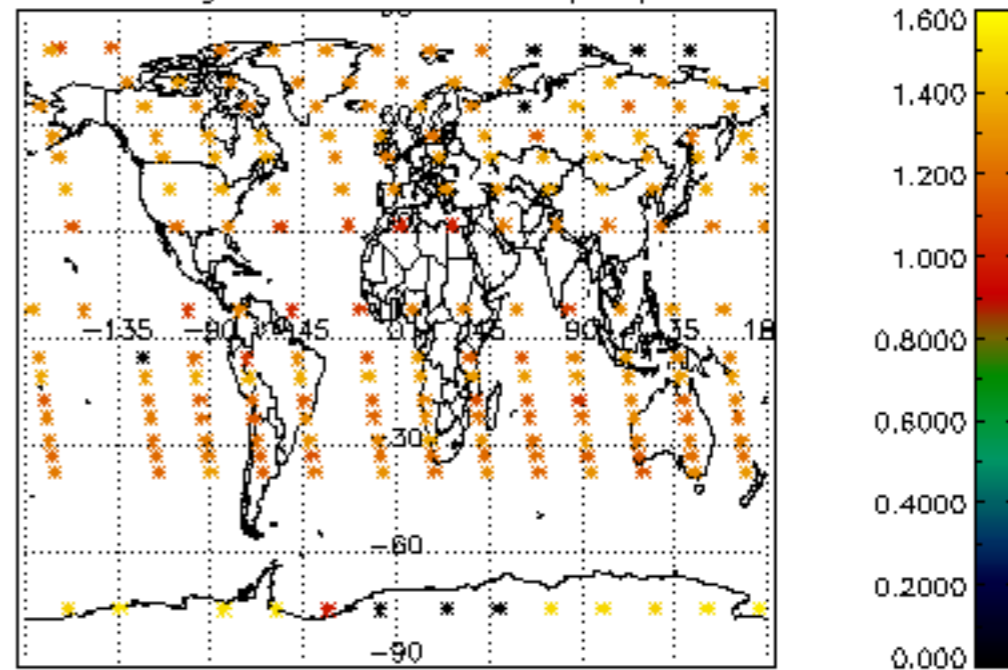




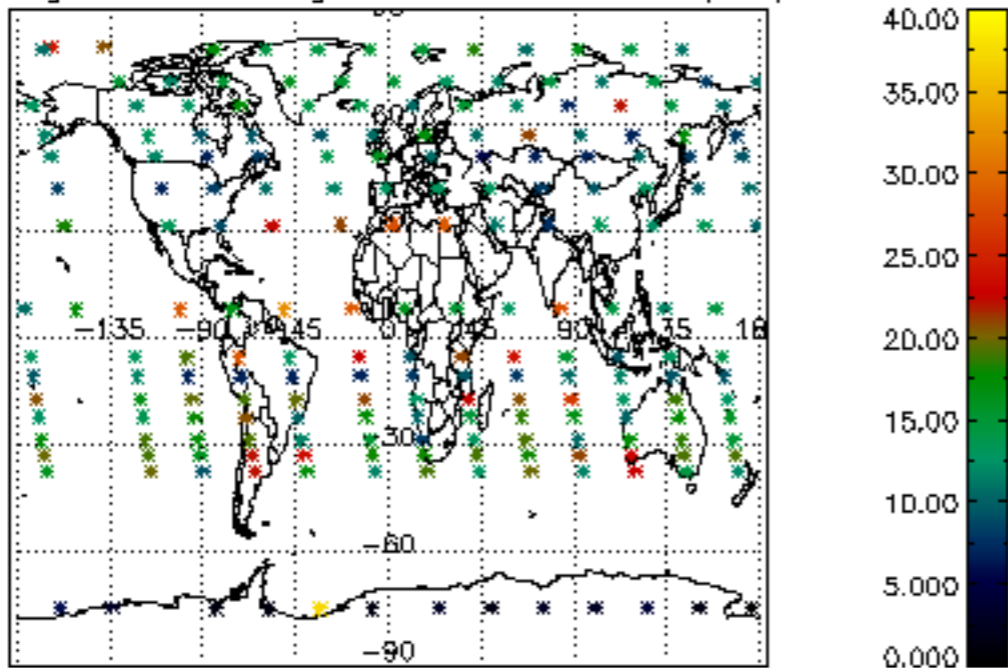
Percentage of cosmic ray hits per profile



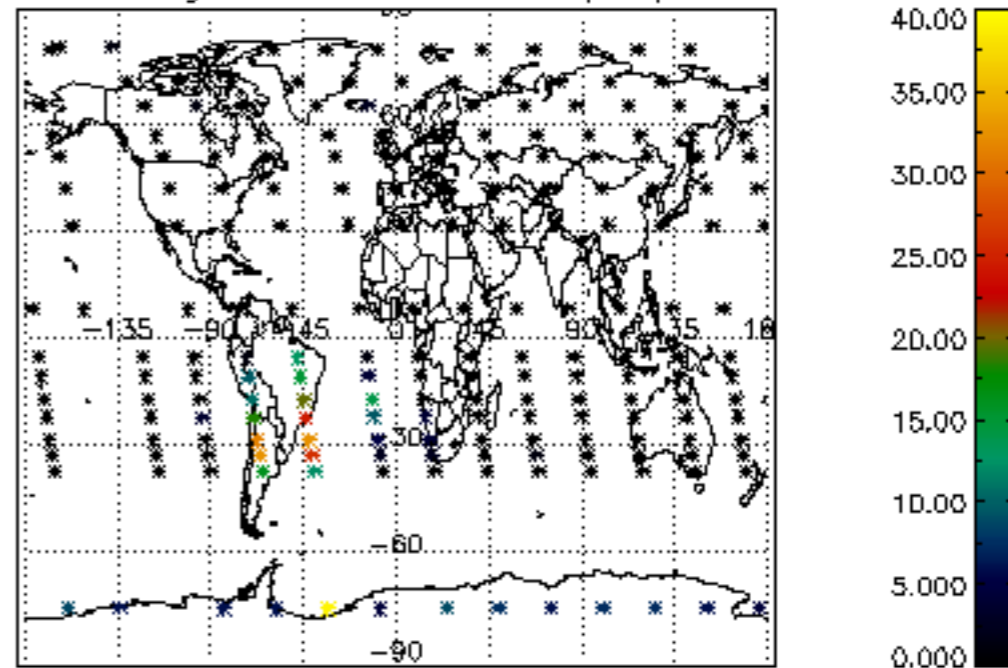
Percentage of datation errors per profile



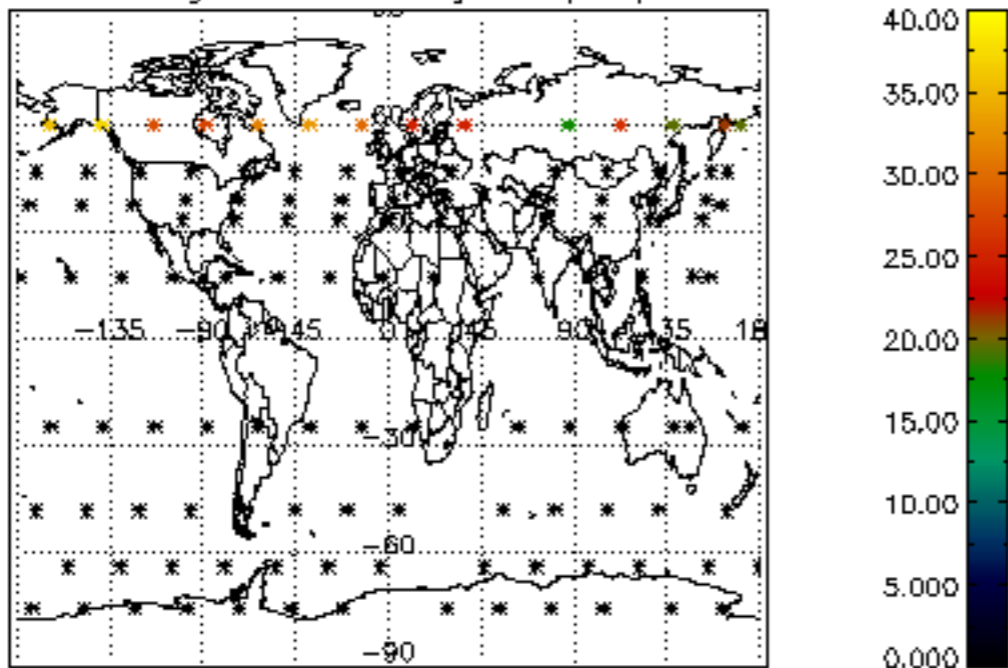
Percentage of star falling outside central band per profile



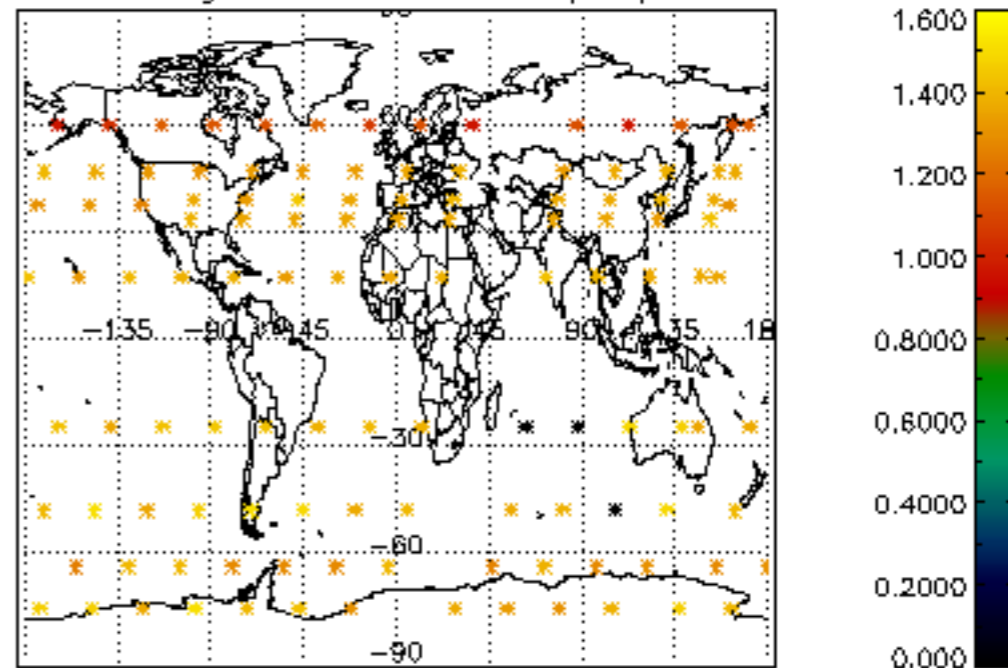
Percentage of saturation errors per profile



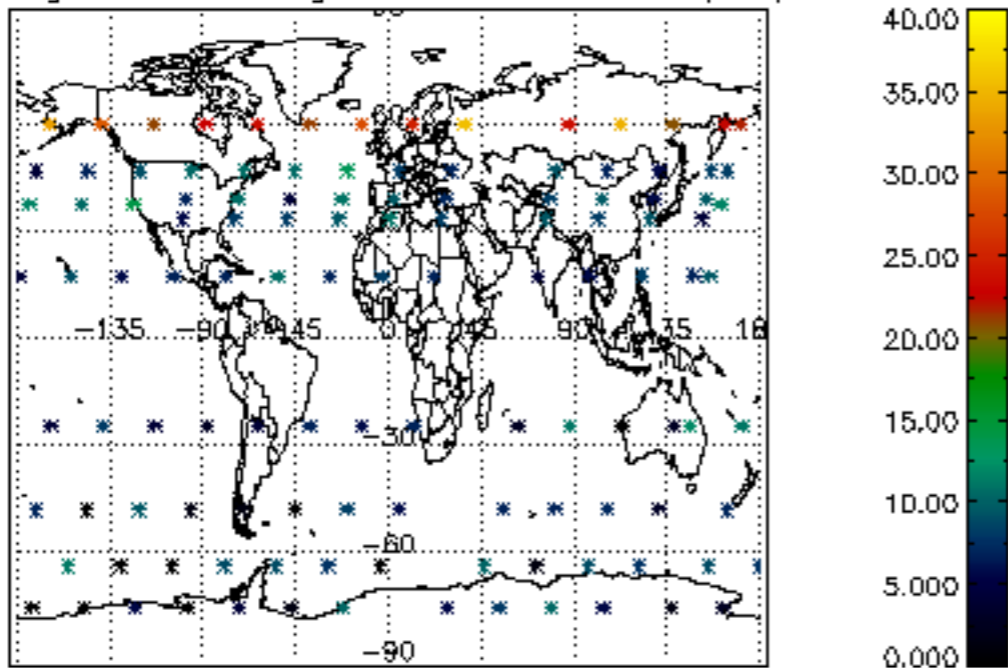
Percentage of cosmic ray hits per profile



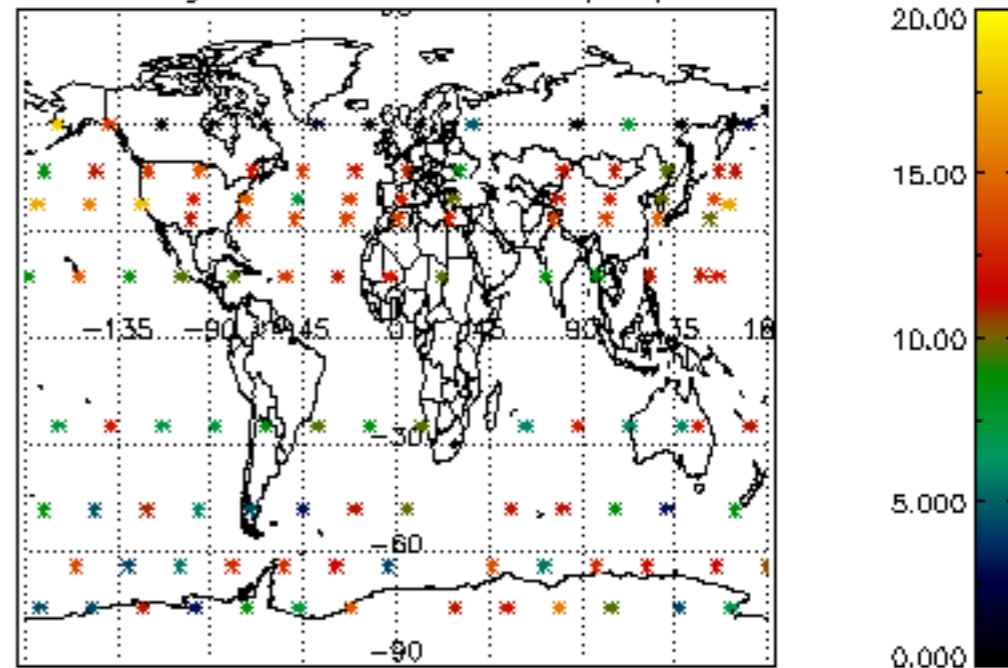
Percentage of datation errors per profile

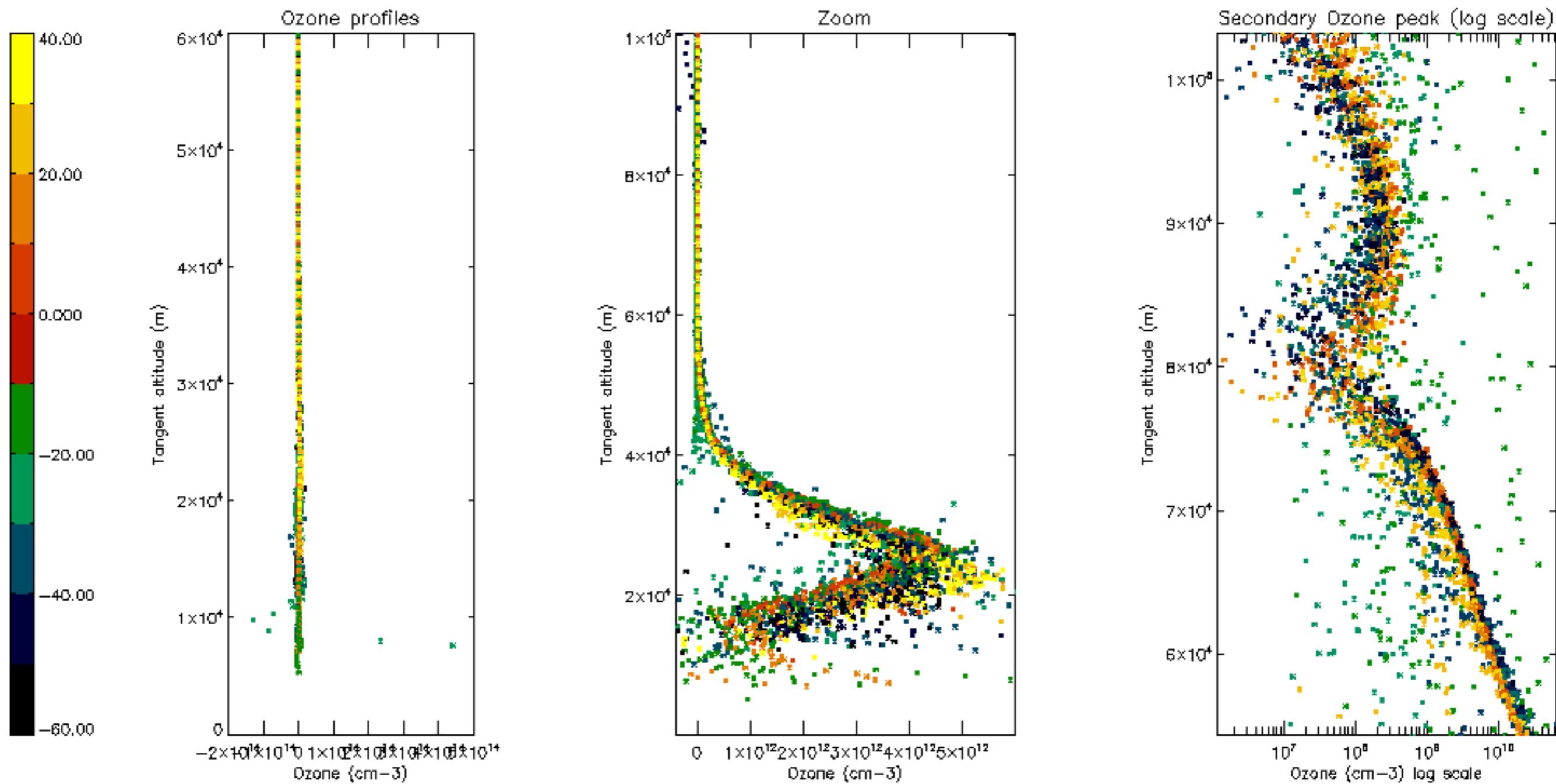


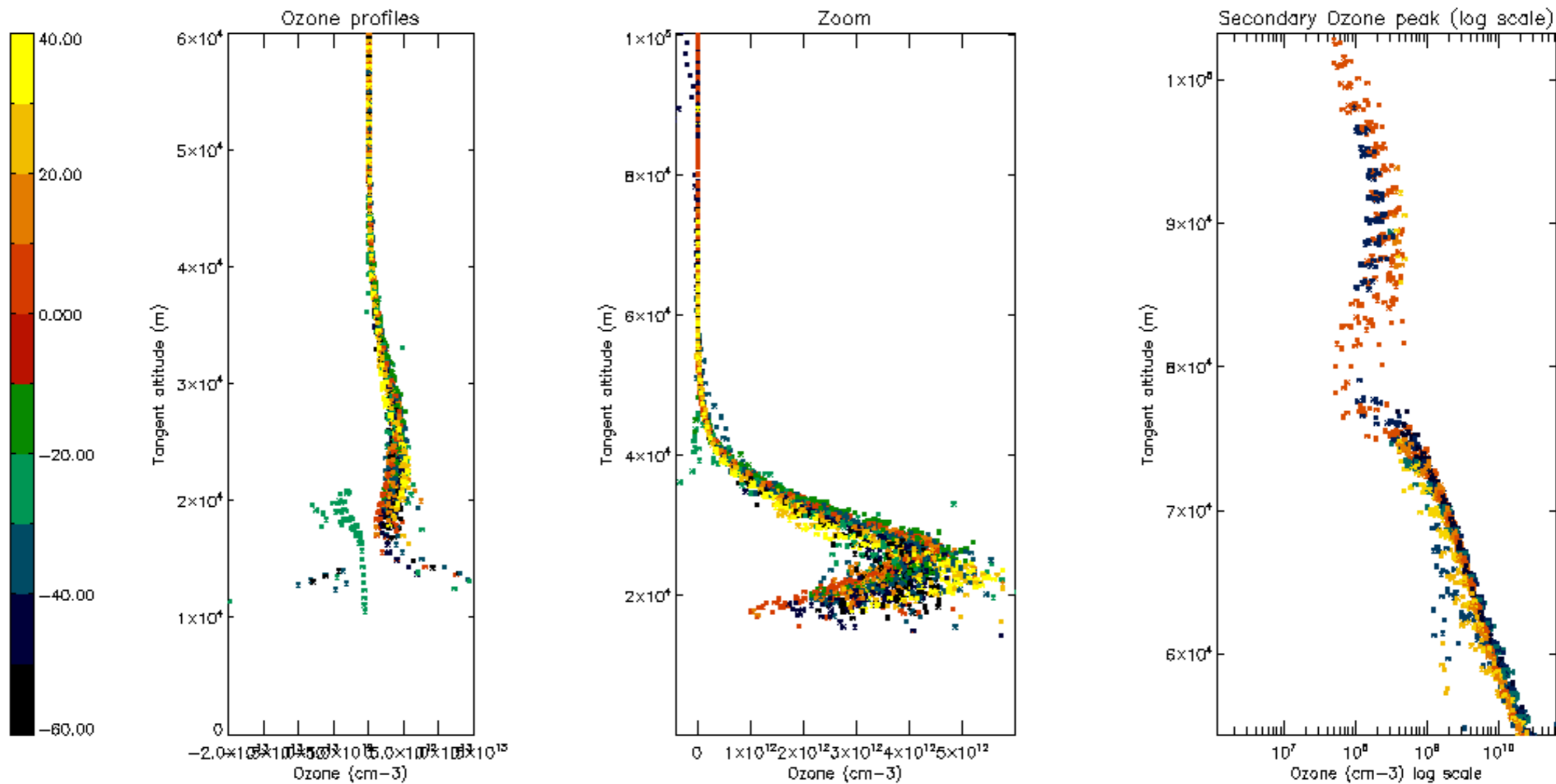
Percentage of star falling outside central band per profile

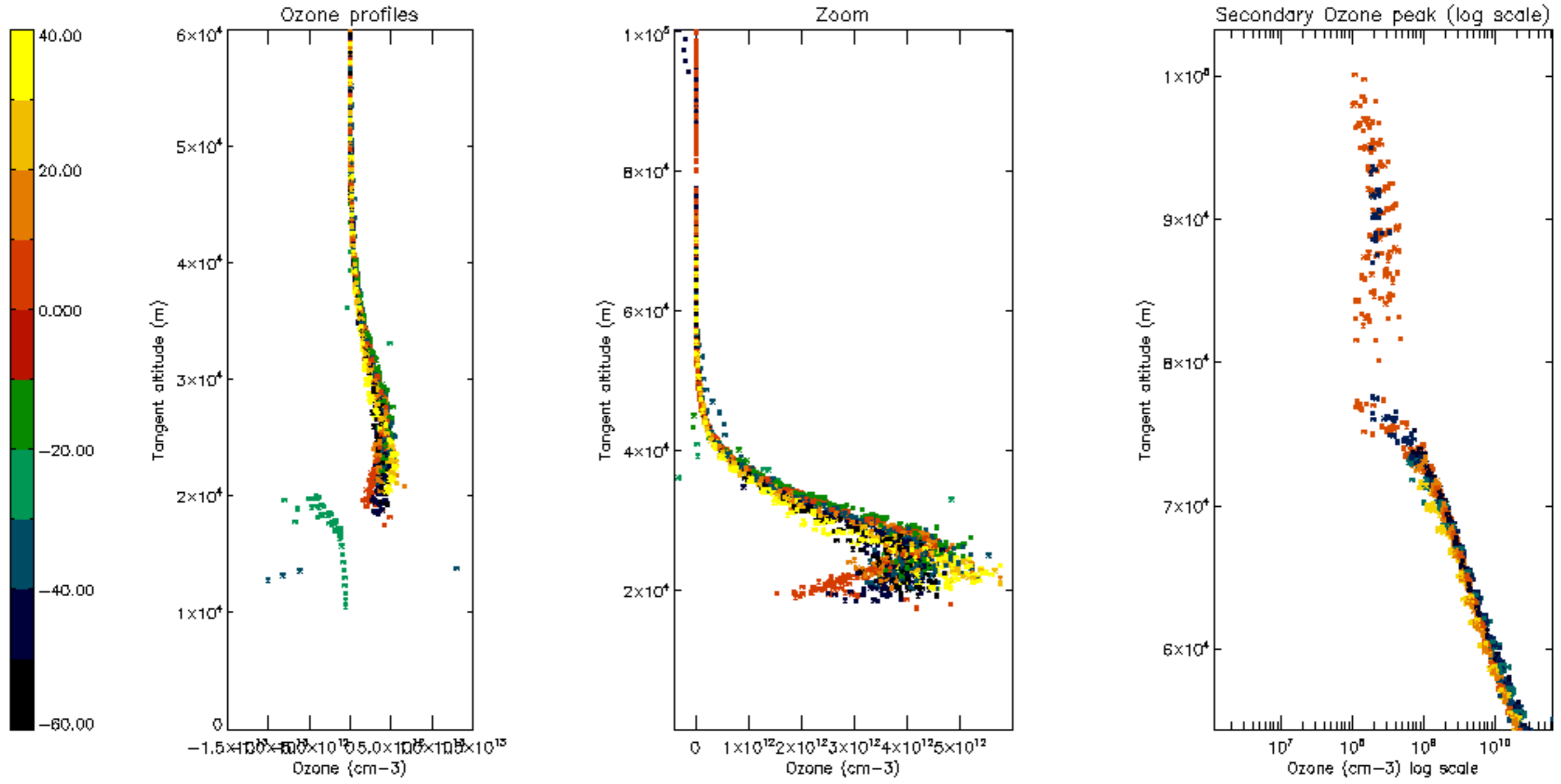


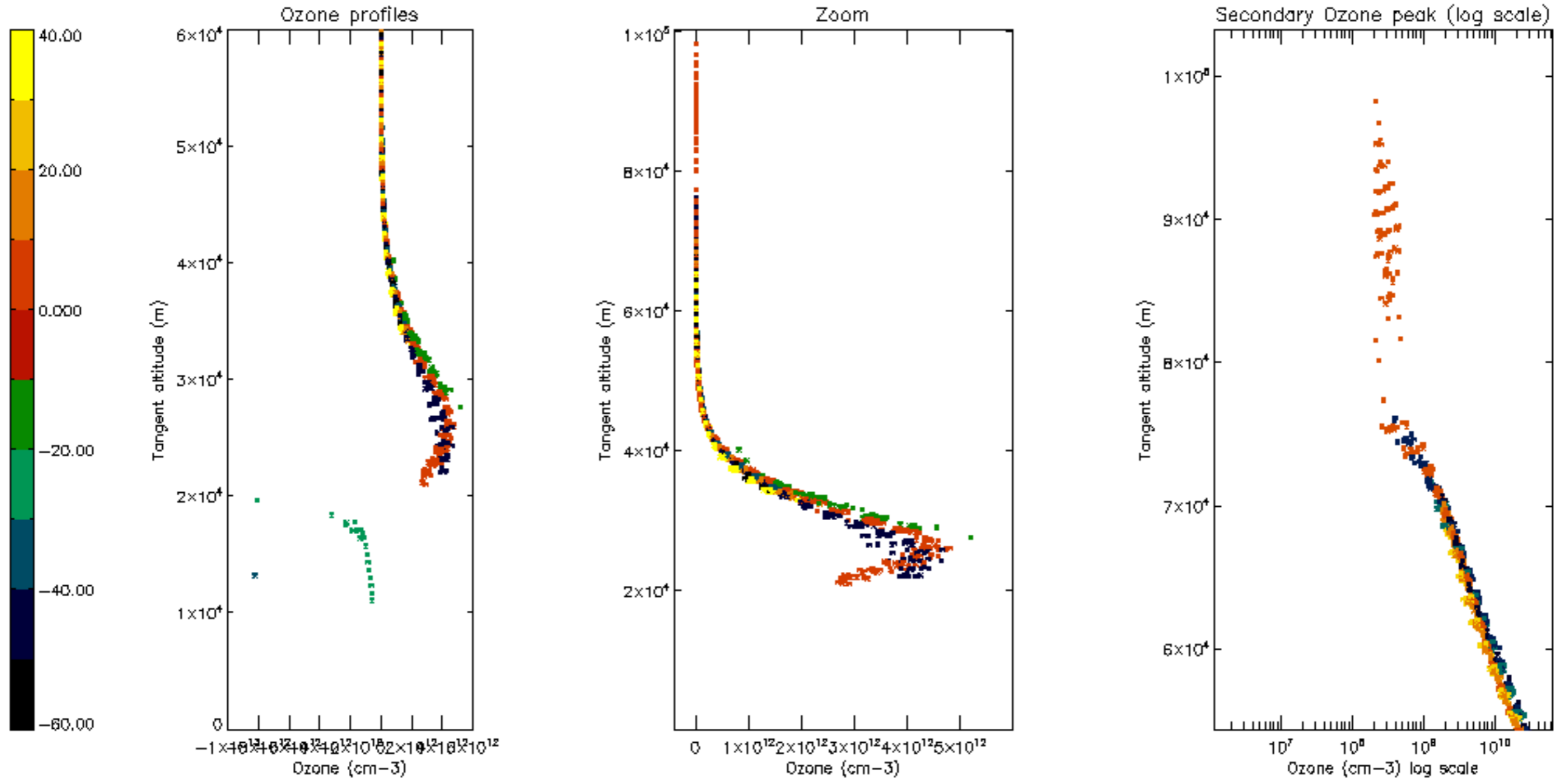
Percentage of saturation errors per profile



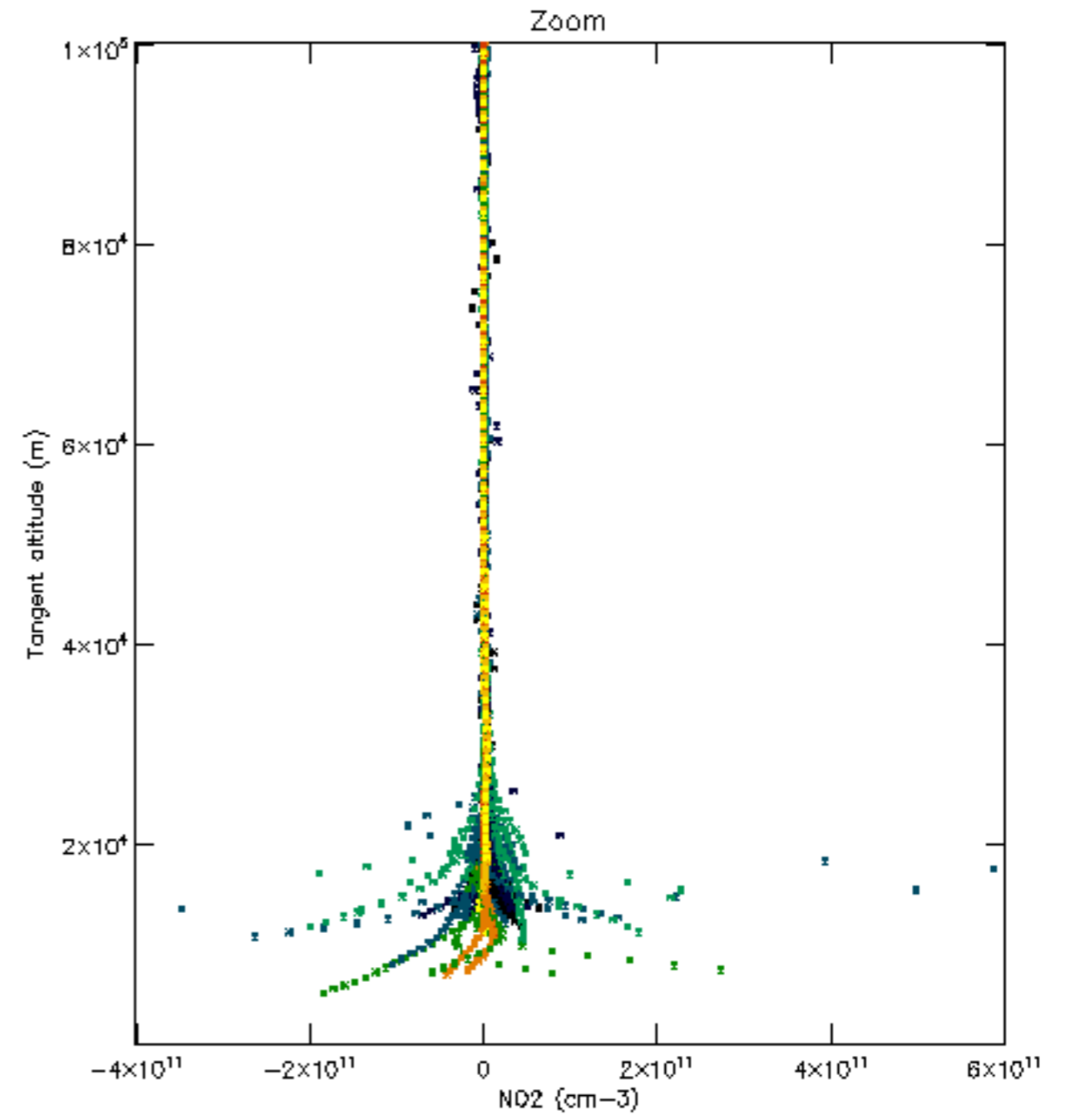
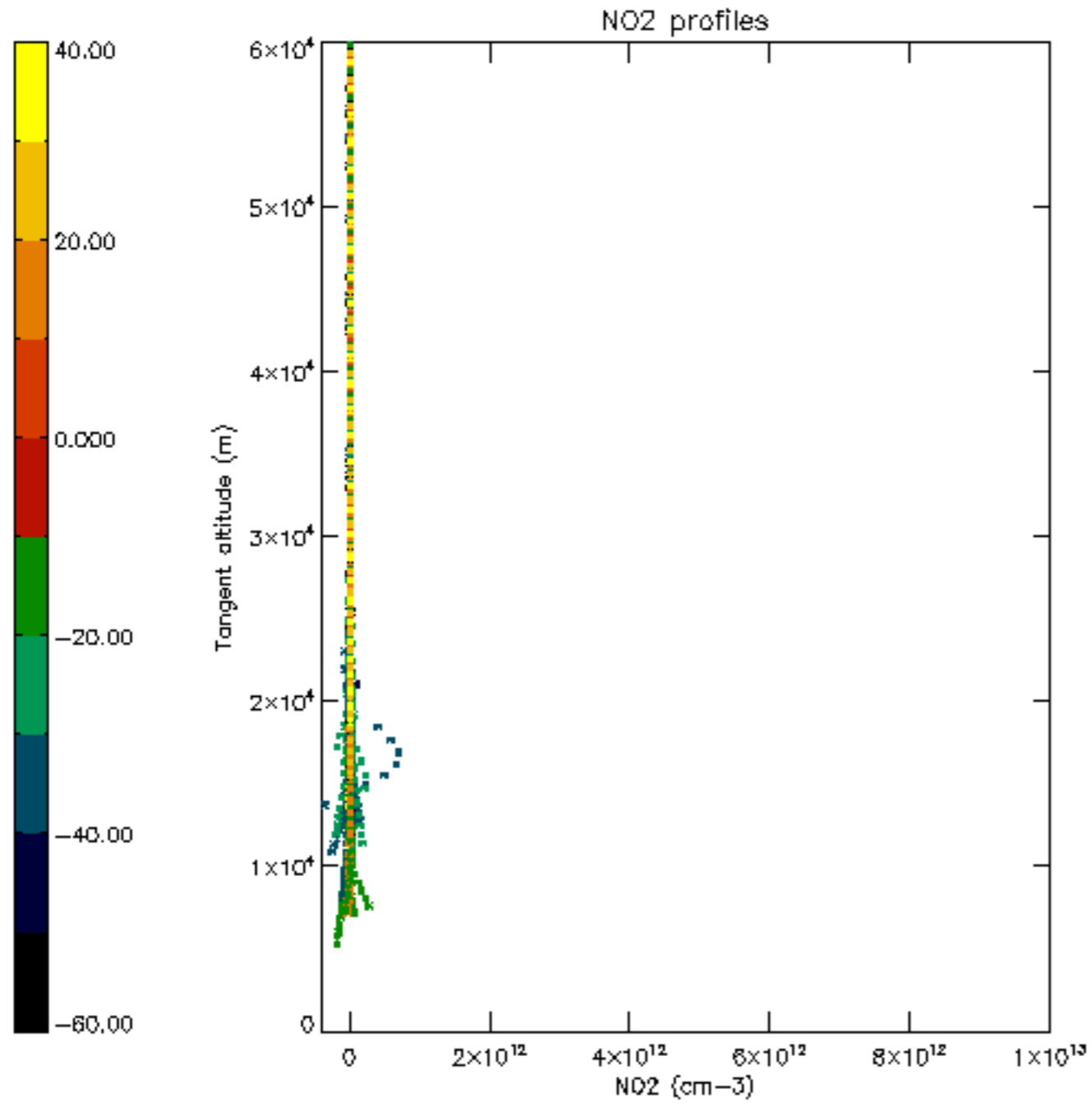


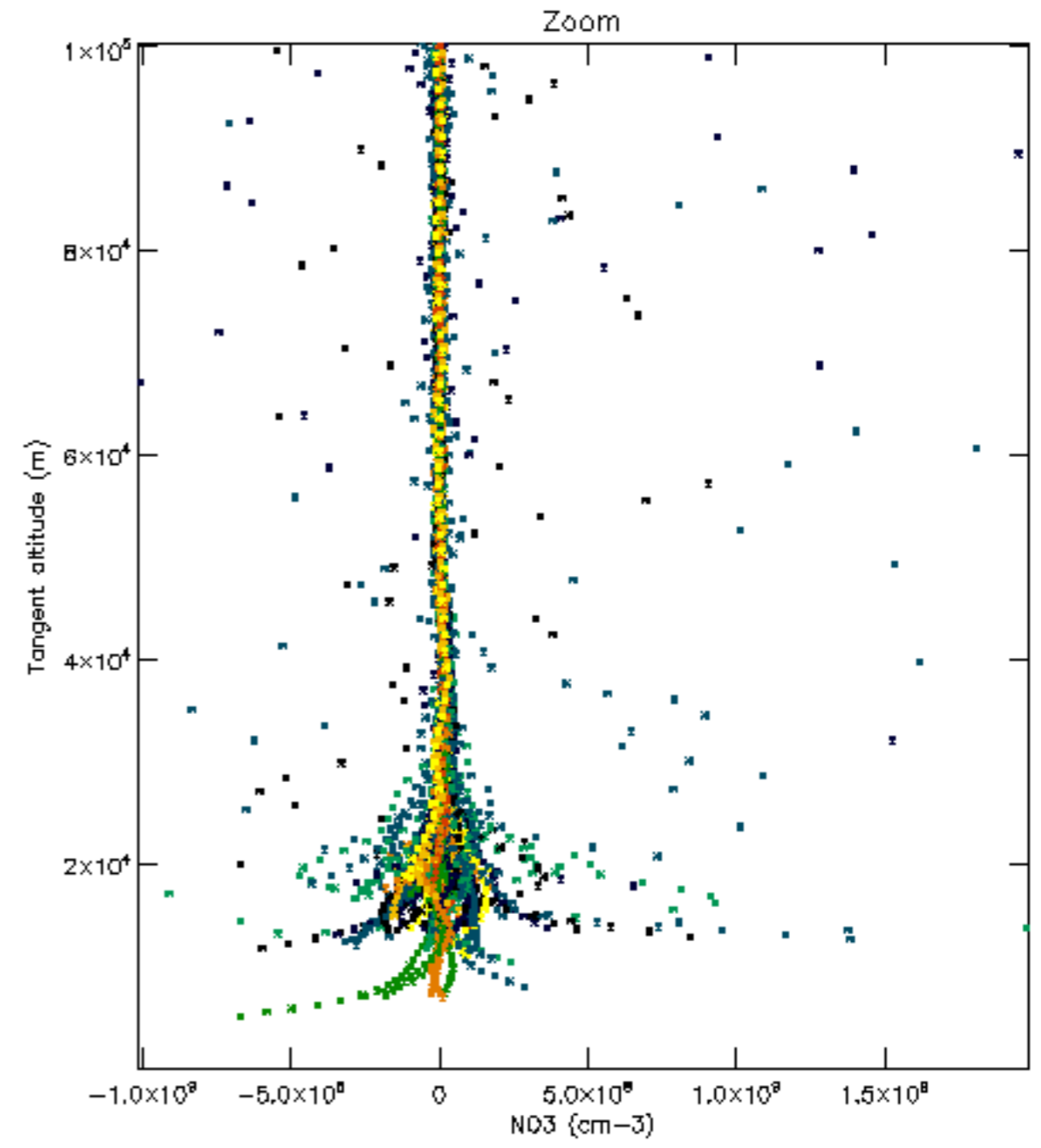
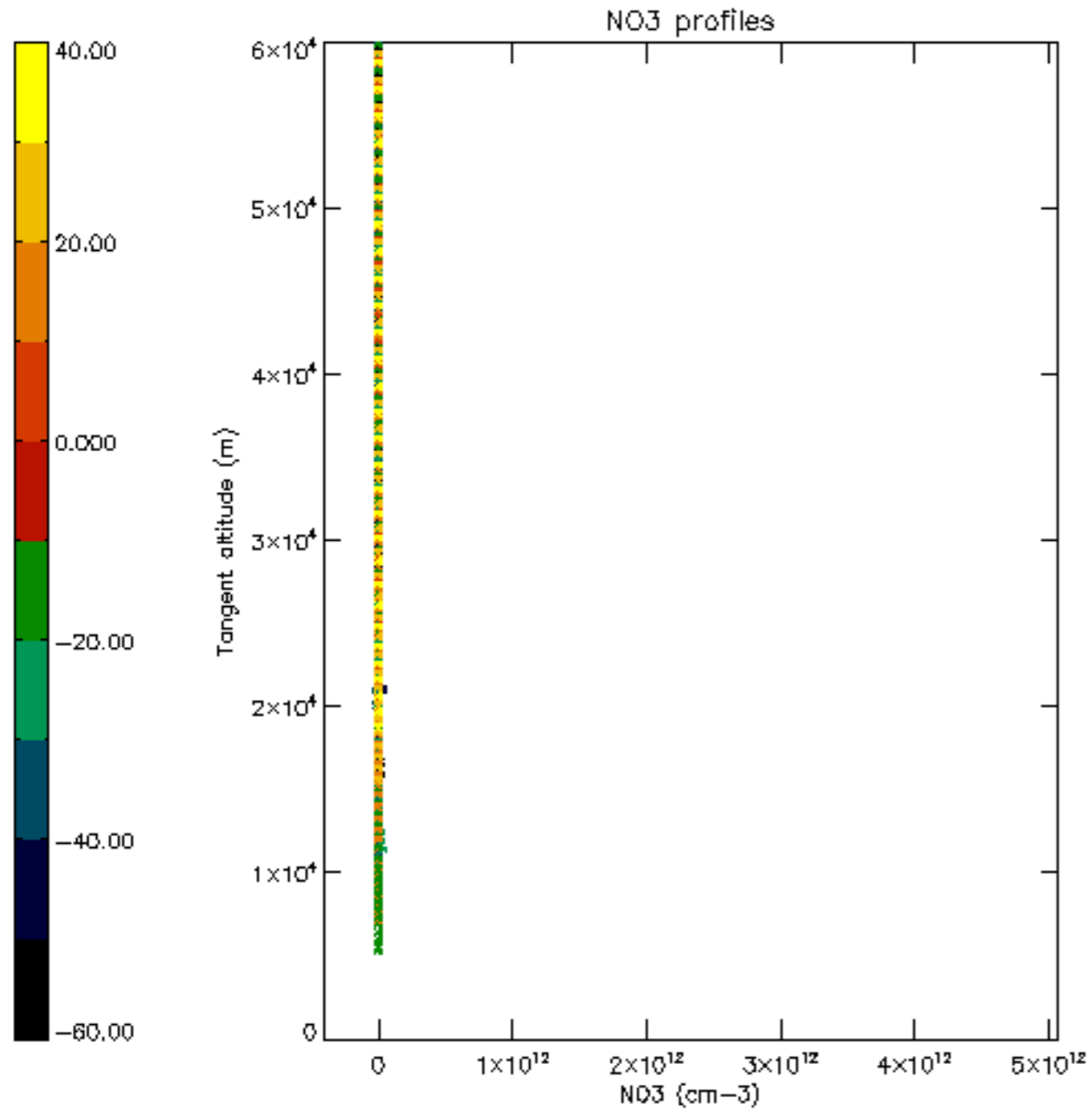


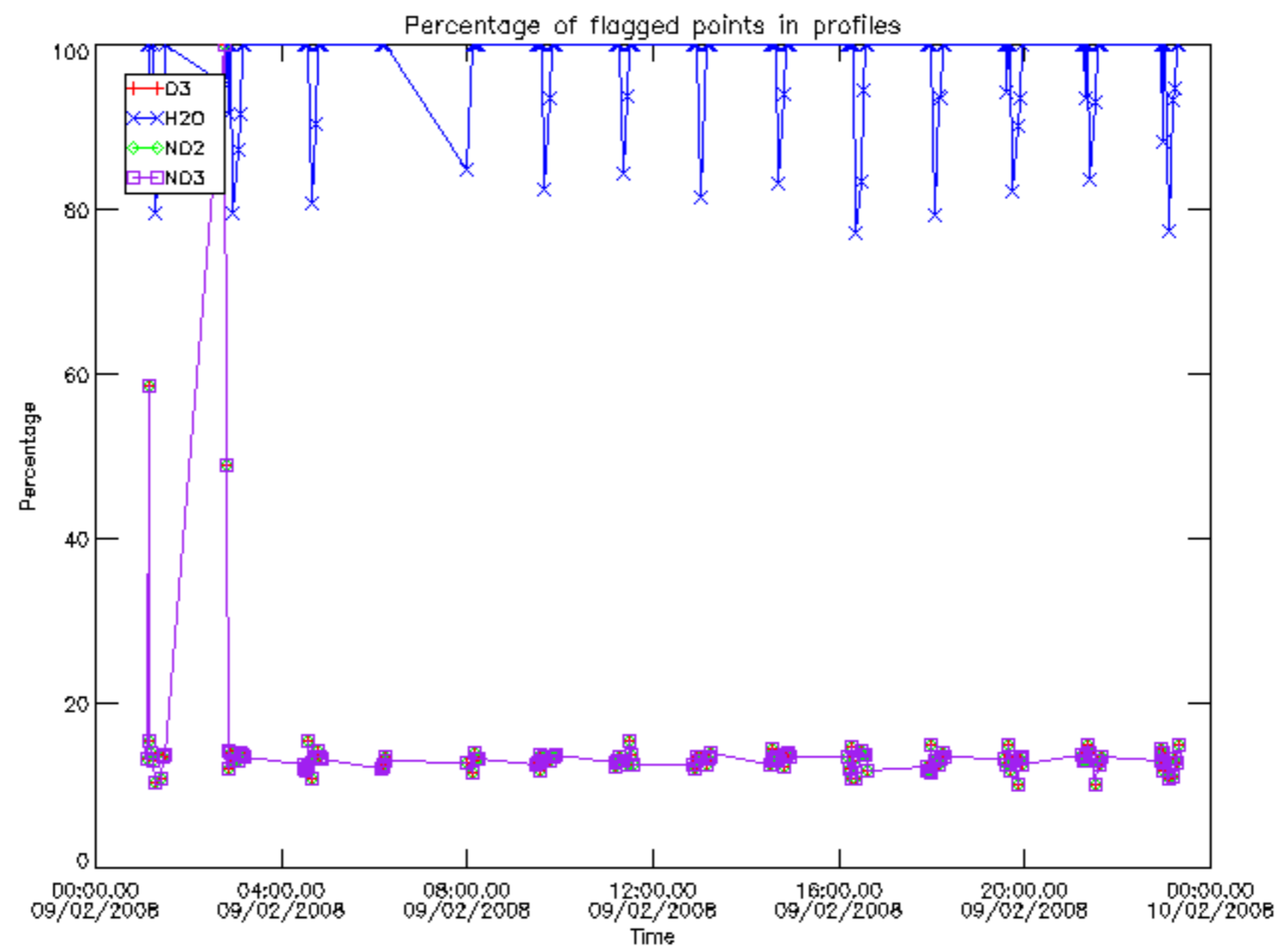




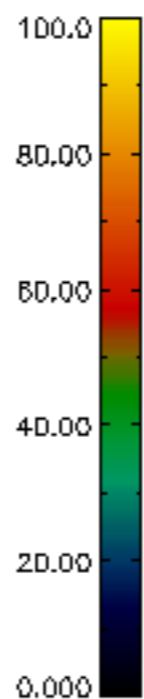
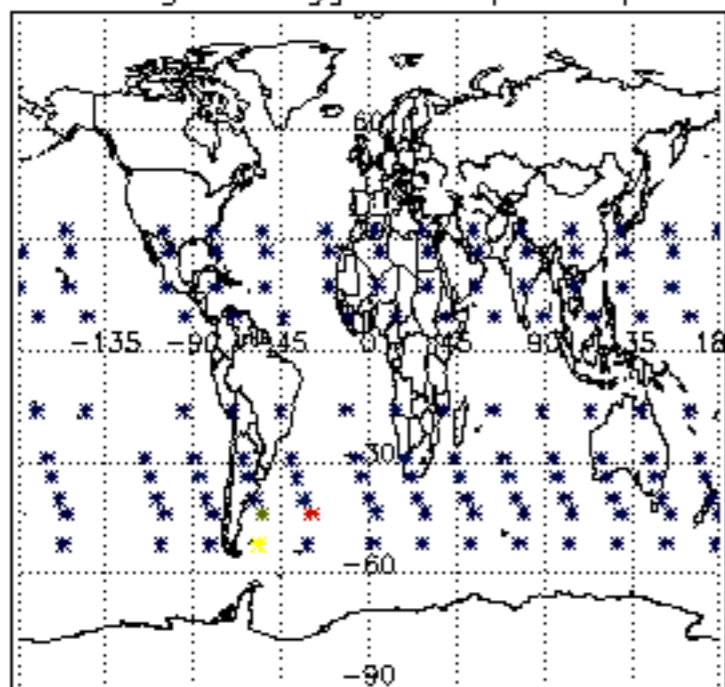




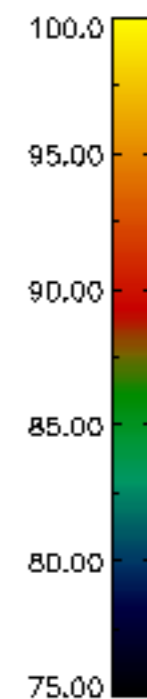
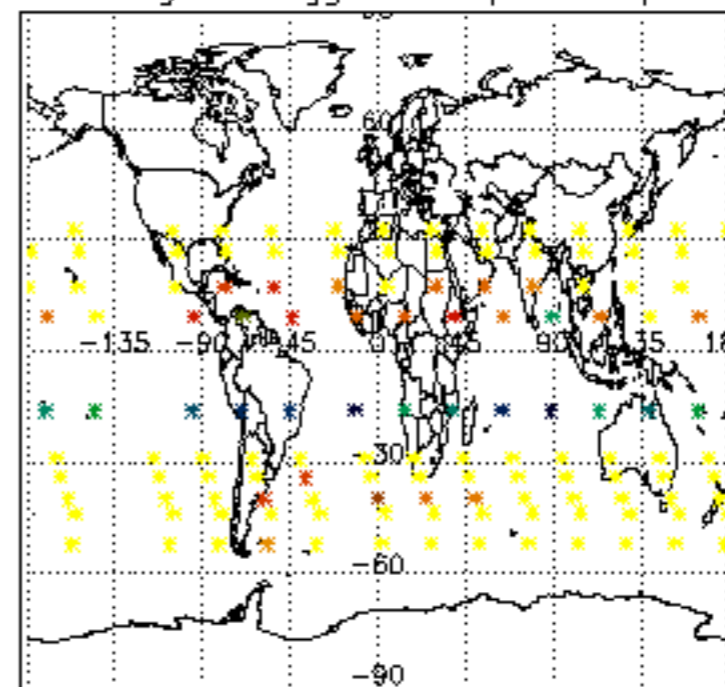




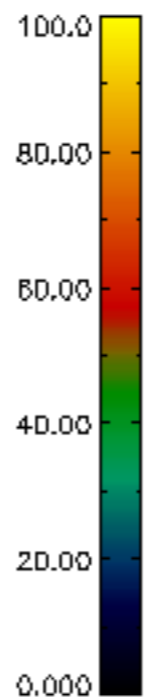
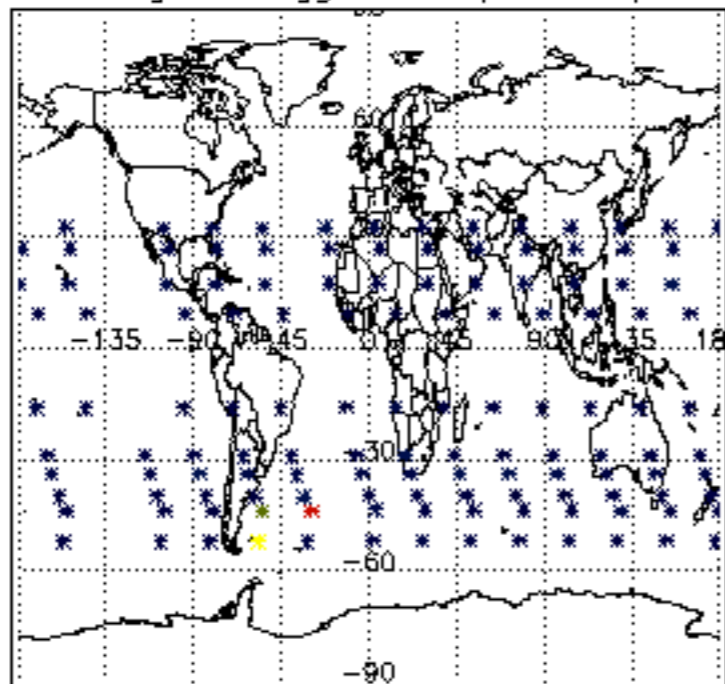
Percentage of flagged data per D3 profile



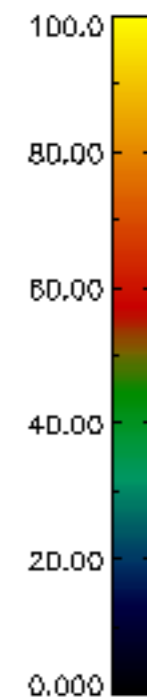
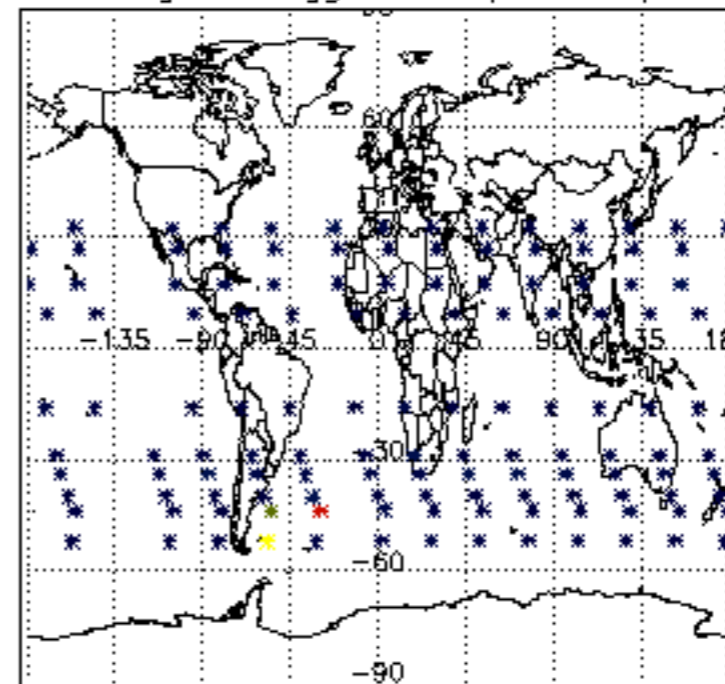
Percentage of flagged data per H2O profile

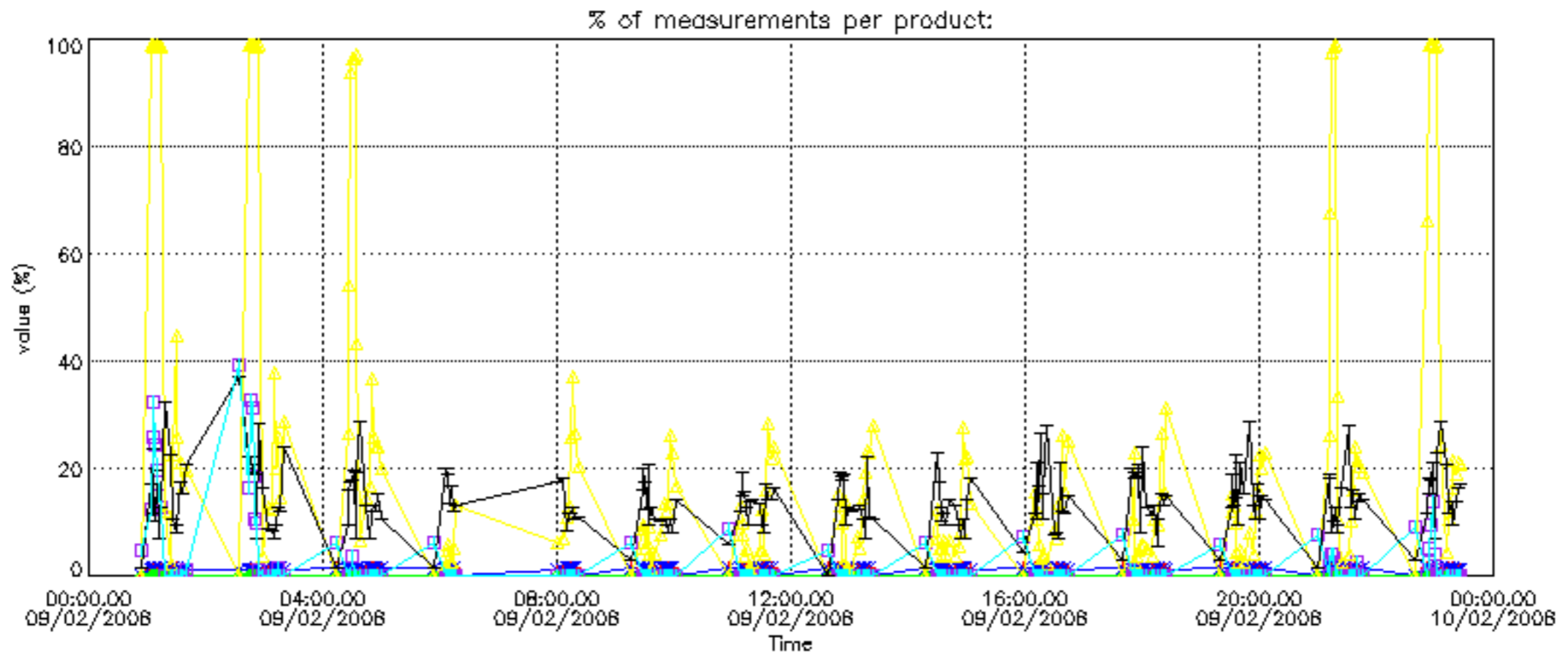


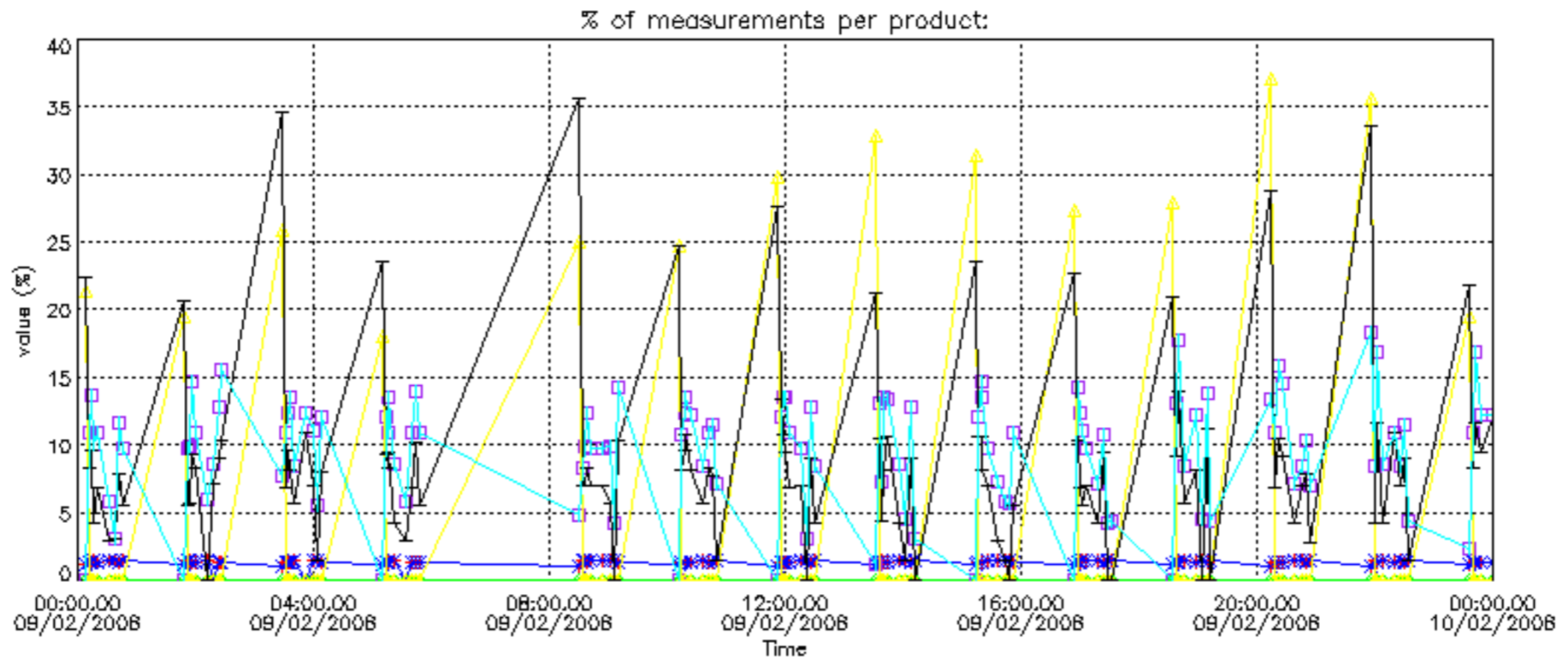
Percentage of flagged data per NO2 profile



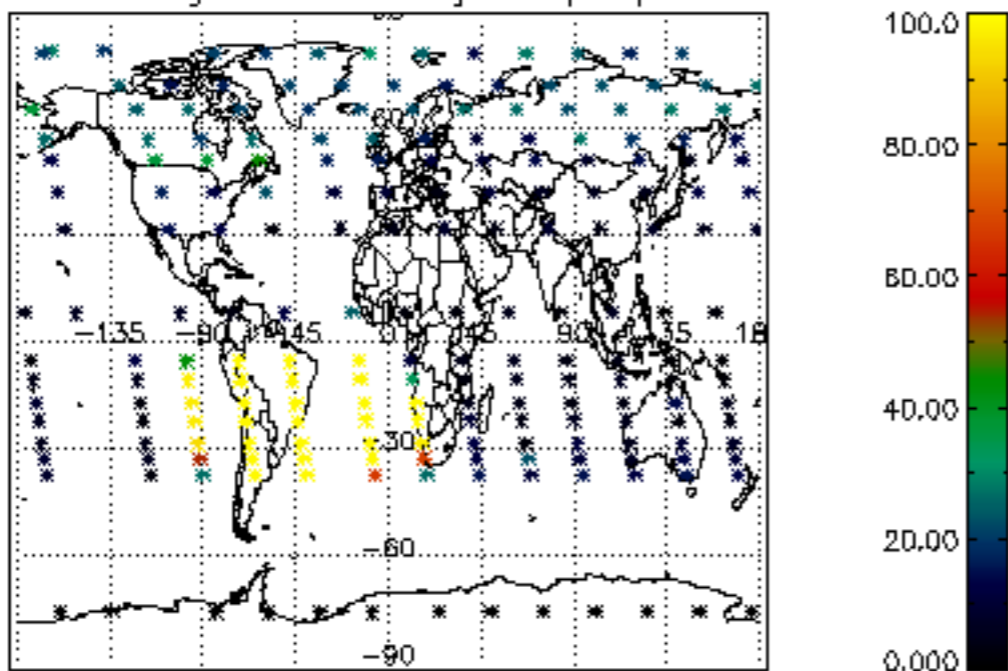
Percentage of flagged data per NO3 profile



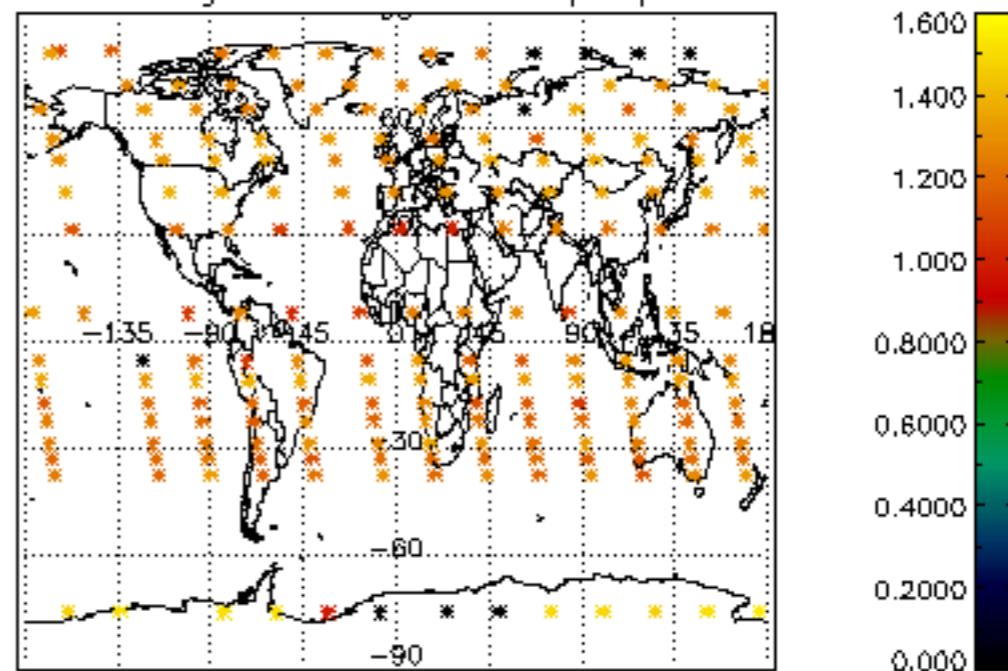




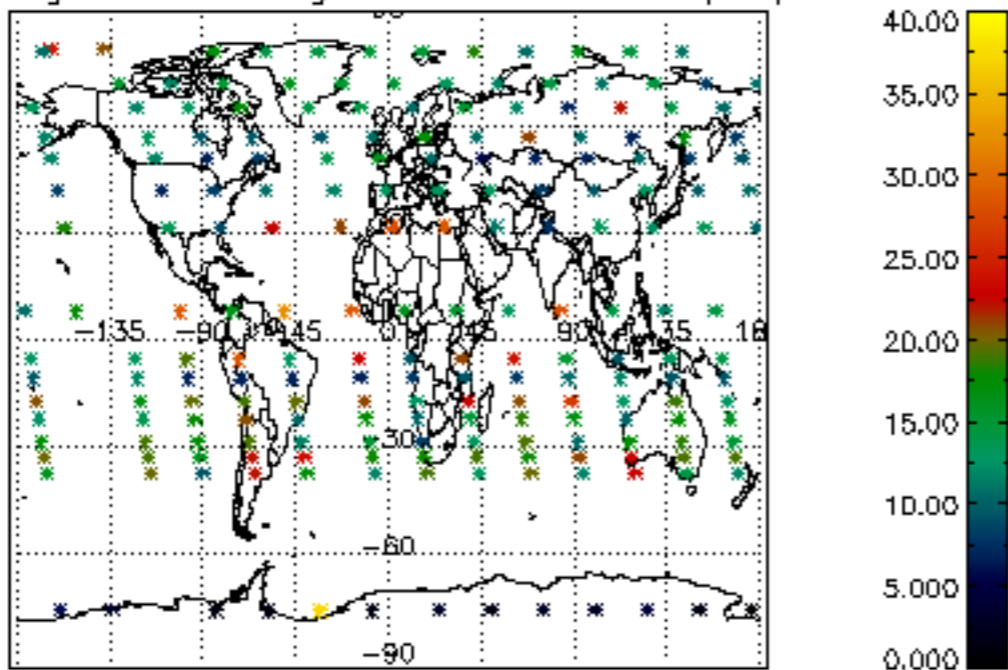
Percentage of cosmic ray hits per profile



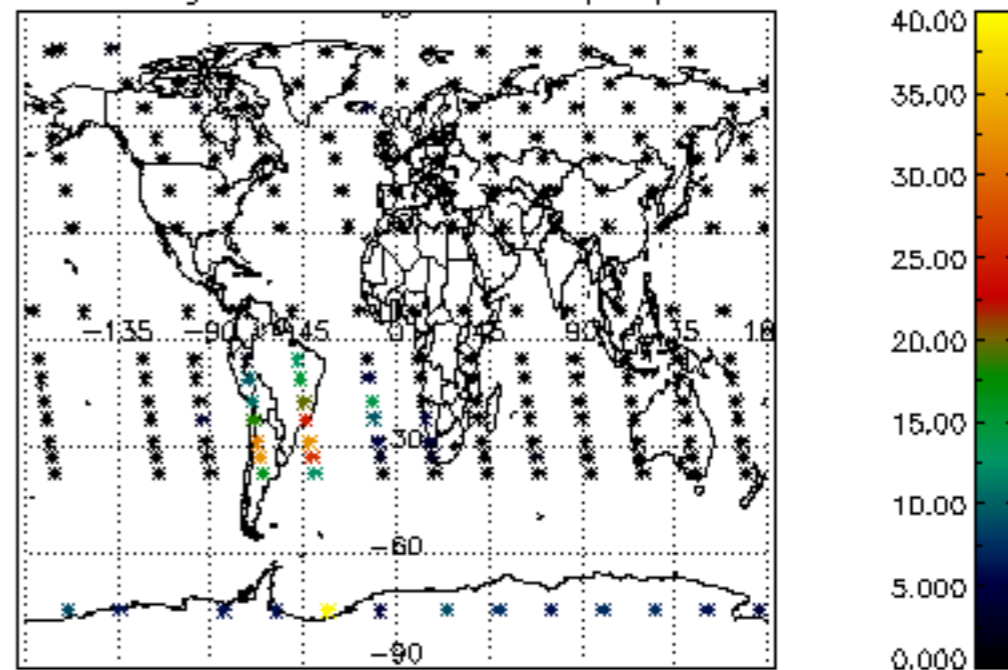
Percentage of datation errors per profile



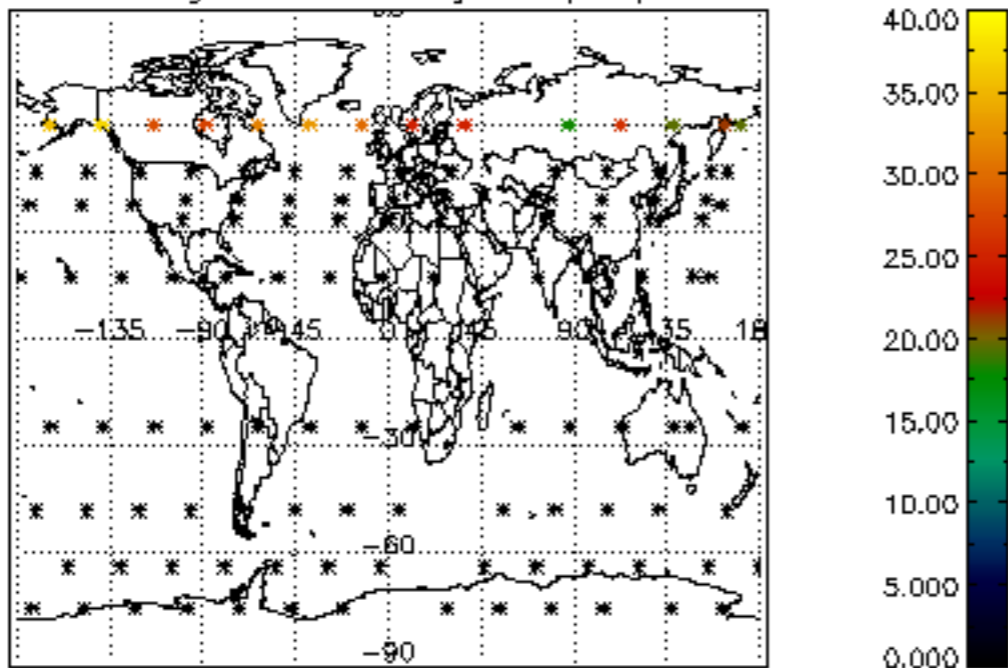
Percentage of star falling outside central band per profile



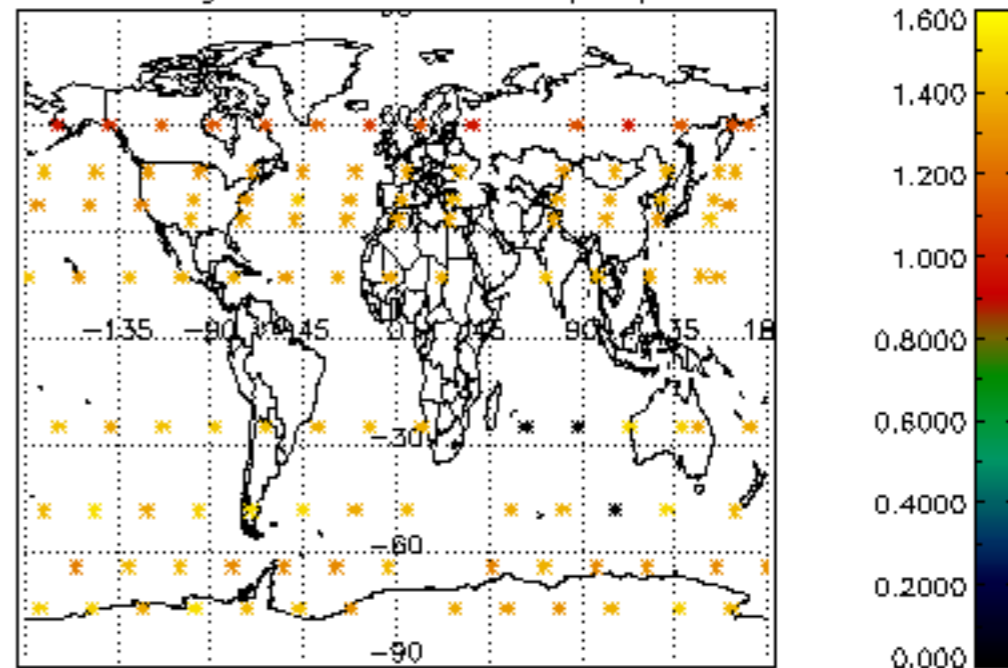
Percentage of saturation errors per profile



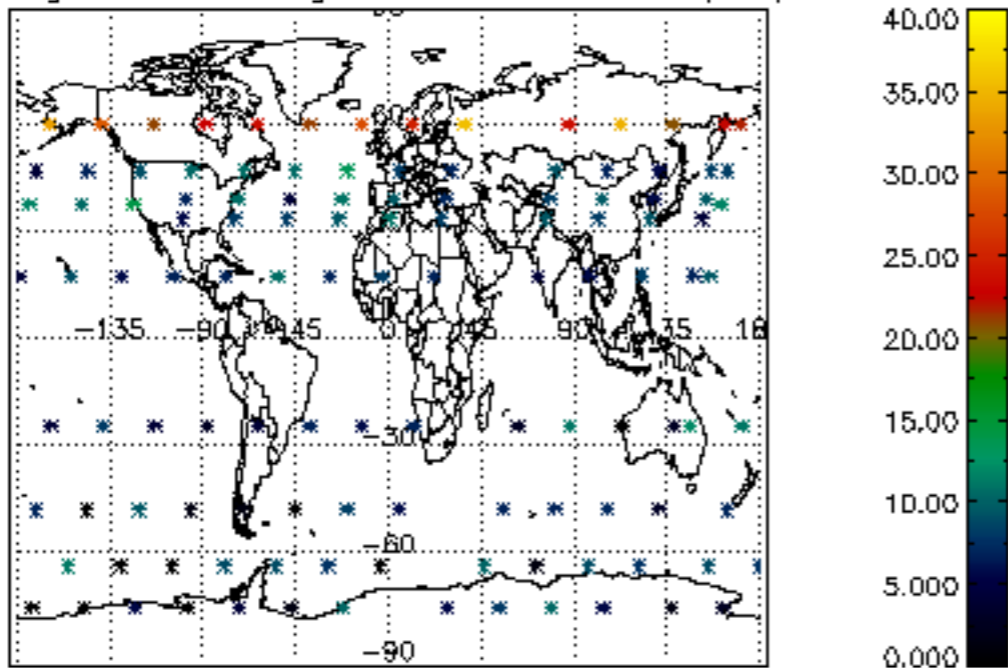
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

