

# GOMOS Level 2 Daily Report

## SUMMARY

### [1. General Info](#)

### [2. Summary of processed GOM\\_NL\\_2P products](#)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM\_NL\_\_2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	24APR2013 03:56:47
Data source version	GOMOS/6.01
Start time of products	04-09-2006 (04SEP2006 00:00:00)
Stop time of products	05-09-2006 (05SEP2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	320
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__2PRFIN20060904_000057_000000382050_00488_23588_1557.N1	04-SEP-2006 00:00:57	Dark	38.000	132	15Rho Pup	2.8030	6900.0	76	23588	No
2	GOM_NL__2PRFIN20060904_000226_000000402050_00488_23588_1558.N1	04-SEP-2006 00:02:26	Dark	40.000	179	24Omi2CMa	3.0320	24000.	80	23588	No
3	GOM_NL__2PRFIN20060904_000355_000000442050_00488_23588_1559.N1	04-SEP-2006 00:03:55	Dark	43.500	23	21Eps CMa	1.5020	26000.	87	23588	No
4	GOM_NL__2PRFIN20060904_000524_000000412050_00488_23588_1560.N1	04-SEP-2006 00:05:24	Dark	41.000	117	Pi Pup	2.7060	3800.0	82	23588	No
5	GOM_NL__2PRFIN20060904_001036_000000542050_00488_23588_1561.N1	04-SEP-2006 00:10:36	Dark	54.000	2	Alp Car	-0.73600	7000.0	108	23588	No
6	GOM_NL__2PRFIN20060904_002059_000000392050_00489_23589_1732.N1	04-SEP-2006 00:20:59	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	23589	No
7	GOM_NL__2PRFIN20060904_002218_000000442050_00489_23589_1733.N1	04-SEP-2006 00:22:18	Dark	43.500	9	Alp Eri	0.45300	24000.	87	23589	No
8	GOM_NL__2PRFIN20060904_002623_000000392050_00489_23589_1734.N1	04-SEP-2006 00:26:23	Straylight	38.500	148	Alp Tuc	2.8780	4100.0	77	23589	No
9	GOM_NL__2PRFIN20060904_003004_000000382050_00489_23589_1735.N1	04-SEP-2006 00:30:04	Straylight	38.000	31	Alp Gru	1.7340	15200.	76	23589	No
10	GOM_NL__2PRFIN20060904_003410_000000412050_00489_23589_1736.N1	04-SEP-2006 00:34:10	Straylight	41.000	18	24Alp PsA	1.1660	9700.0	82	23589	No
11	GOM_NL__2PRFIN20060904_003854_000000412050_00489_23589_1737.N1	04-SEP-2006 00:38:54	Bright	41.000	142	49Del Cap	2.8500	8900.0	82	23589	No
12	GOM_NL__2PRFIN20060904_004201_000000382050_00489_23589_1738.N1	04-SEP-2006 00:42:01	Bright	38.000	154	22Bet Aqr	2.8990	5700.0	76	23589	No
13	GOM_NL__2PRFIN20060904_004325_000000402050_00489_23589_1739.N1	04-SEP-2006 00:43:25	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	23589	No
14	GOM_NL__2PRFIN20060904_004624_000000392050_00489_23589_1740.N1	04-SEP-2006 00:46:24	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	23589	No
15	GOM_NL__2PRFIN20060904_005320_000000352050_00489_23589_1741.N1	04-SEP-2006 00:53:20	Bright	34.500	92	53Eps Cyg	2.5000	4500.0	69	23589	No
16	GOM_NL__2PRFIN20060904_005516_000000362050_00489_23589_1742.N1	04-SEP-2006 00:55:16	Bright	36.000	66	37Gam Cyg	2.2080	5900.0	72	23589	No
17	GOM_NL__2PRFIN20060904_005630_000000342050_00489_23589_1743.N1	04-SEP-2006 00:56:30	Bright	34.000	19	50Alp Cyg	1.2460	10500.	68	23589	No
18	GOM_NL__2PRFIN20060904_010122_000000342050_00489_23589_1744.N1	04-SEP-2006 01:01:22	Bright	34.000	89	5Alp Cep	2.4510	8000.0	68	23589	No
19	GOM_NL__2PRFIN20060904_010903_000000362050_00489_23589_1745.N1	04-SEP-2006 01:09:03	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23589	No
20	GOM_NL__2PRFIN20060904_012608_000000392050_00489_23589_1746.N1	04-SEP-2006 01:26:08	Bright	39.000	24	66Alp Gem	1.5800	10200.	78	23589	No
21	GOM_NL__2PRFIN20060904_013358_000000522050_00489_23589_1747.N1	04-SEP-2006 01:33:58	Twilight	51.500	8	10Alp CMi	0.40000	6500.0	103	23589	No
22	GOM_NL__2PRFIN20060904_014133_000000382050_00489_23589_1748.N1	04-SEP-2006 01:41:33	Dark	38.000	132	15Rho Pup	2.8030	6900.0	76	23589	No
23	GOM_NL__2PRFIN20060904_014303_000000402050_00489_23589_1749.N1	04-SEP-2006 01:43:03	Dark	39.500	179	24Omi2CMa	3.0320	24000.	79	23589	No
24	GOM_NL__2PRFIN20060904_014431_000000452050_00489_23589_1750.N1	04-SEP-2006 01:44:31	Dark	44.500	23	21Eps CMa	1.5020	26000.	89	23589	No
25	GOM_NL__2PRFIN20060904_015113_000000502050_00489_23589_1751.N1	04-SEP-2006 01:51:13	Dark	49.500	2	Alp Car	-0.73600	7000.0	99	23589	No
26	GOM_NL__2PRFIN20060904_020135_000000392050_00490_23590_1732.N1	04-SEP-2006 02:01:35	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	23590	No
27	GOM_NL__2PRFIN20060904_020254_000000472050_00490_23590_1733.N1	04-SEP-2006 02:02:54	Dark	47.000	9	Alp Eri	0.45300	24000.	94	23590	No
28	GOM_NL__2PRFIN20060904_020659_000000392050_00490_23590_1734.N1	04-SEP-2006 02:06:59	Straylight	38.500	148	Alp Tuc	2.8780	4100.0	77	23590	No
29	GOM_NL__2PRFIN20060904_021040_000000402050_00490_23590_1735.N1	04-SEP-2006 02:10:40	Straylight	39.500	31	Alp Gru	1.7340	15200.	79	23590	No
30	GOM_NL__2PRFIN20060904_021446_000000482050_00490_23590_1736.N1	04-SEP-2006 02:14:46	Straylight	48.000	18	24Alp PsA	1.1660	9700.0	96	23590	No
31	GOM_NL__2PRFIN20060904_021930_000000402050_00490_23590_1737.N1	04-SEP-2006 02:19:30	Bright	39.500	142	49Del Cap	2.8500	8900.0	79	23590	No
32	GOM_NL__2PRFIN20060904_022237_000000372050_00490_23590_1738.N1	04-SEP-2006 02:22:37	Bright	36.500	154	22Bet Aqr	2.8990	5700.0	73	23590	No
33	GOM_NL__2PRFIN20060904_022401_000000392050_00490_23590_1739.N1	04-SEP-2006 02:24:01	Bright	39.000	162	34Alp Aqr	2.9440	5350.0	78	23590	No
34	GOM_NL__2PRFIN20060904_022700_000000382050_00490_23590_1740.N1	04-SEP-2006 02:27:00	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	23590	No
35	GOM_NL__2PRFIN20060904_023356_000000382050_00490_23590_1741.N1	04-SEP-2006 02:33:56	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	23590	No
36	GOM_NL__2PRFIN20060904_023552_000000382050_00490_23590_1742.N1	04-SEP-2006 02:35:52	Bright	37.500	66	37Gam Cyg	2.2080	5900.0	75	23590	No
37	GOM_NL__2PRFIN20060904_023706_000000372050_00490_23590_1743.N1	04-SEP-2006 02:37:06	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	23590	No
38	GOM_NL__2PRFIN20060904_024158_000000362050_00490_23590_1744.N1	04-SEP-2006 02:41:58	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	23590	No
39	GOM_NL__2PRFIN20060904_024939_000000352050_00490_23590_1745.N1	04-SEP-2006 02:49:39	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	23590	No
40	GOM_NL__2PRFIN20060904_030644_000000412050_00490_23590_1746.N1	04-SEP-2006 03:06:44	Bright	40.500	24	66Alp Gem	1.5800	10200.	81	23590	No
41	GOM_NL__2PRFIN20060904_031434_000000552050_00490_23590_1747.N1	04-SEP-2006 03:14:34	Twilight	55.000	8	10Alp CMi	0.40000	6500.0	110	23590	No
42	GOM_NL__2PRFIN20060904_032209_000000412050_00490_23590_1748.N1	04-SEP-2006 03:22:09	Dark	40.500	132	15Rho Pup	2.8030	6900.0	81	23590	No







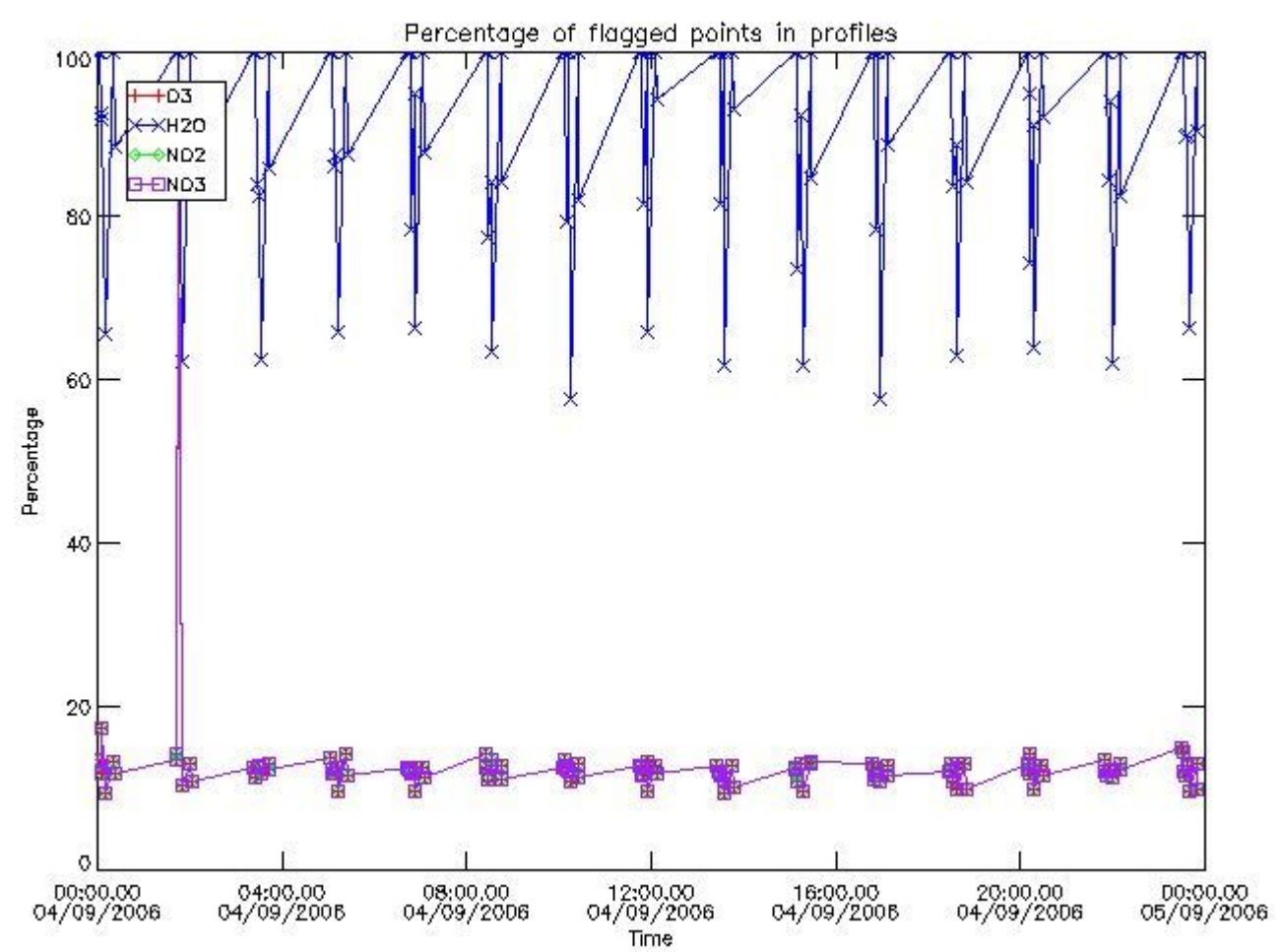


279	GOM_NL__2PRFIN20060904_205335_000000382050_00501_23601_1761.N1	04-SEP-2006 20:53:35	Bright	38.000	61	8Eps Peg	2.1000	3900.0	76	23601	No
280	GOM_NL__2PRFIN20060904_210033_000000372050_00501_23601_1762.N1	04-SEP-2006 21:00:33	Bright	37.000	92	53Eps Cyg	2.5000	4500.0	74	23601	No
281	GOM_NL__2PRFIN20060904_210229_000000352050_00501_23601_1763.N1	04-SEP-2006 21:02:29	Bright	34.500	66	37Gam Cyg	2.2080	5900.0	69	23601	No
282	GOM_NL__2PRFIN20060904_210342_000000342050_00501_23601_1764.N1	04-SEP-2006 21:03:42	Bright	33.500	19	50Alp Cyg	1.2460	10500.	67	23601	No
283	GOM_NL__2PRFIN20060904_210832_000000532050_00501_23601_1765.N1	04-SEP-2006 21:08:32	Bright	53.000	89	5Alp Cep	2.4510	8000.0	106	23601	No
284	GOM_NL__2PRFIN20060904_211614_000000362050_00501_23601_1766.N1	04-SEP-2006 21:16:14	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23601	No
285	GOM_NL__2PRFIN20060904_213321_000000402050_00501_23601_1767.N1	04-SEP-2006 21:33:21	Bright	40.000	24	66Alp Gem	1.5800	10200.	80	23601	No
286	GOM_NL__2PRFIN20060904_214113_000000532050_00501_23601_1768.N1	04-SEP-2006 21:41:13	Twilight	52.500	8	10Alp CMi	0.40000	6500.0	105	23601	No
287	GOM_NL__2PRFIN20060904_214847_000000382050_00501_23601_1769.N1	04-SEP-2006 21:48:47	Dark	37.500	132	15Rho Pup	2.8030	6900.0	75	23601	No
288	GOM_NL__2PRFIN20060904_215021_000000432050_00501_23601_1770.N1	04-SEP-2006 21:50:21	Dark	42.500	179	24Omi2CMa	3.0320	24000.	85	23601	No
289	GOM_NL__2PRFIN20060904_215149_000000452050_00501_23601_1771.N1	04-SEP-2006 21:51:49	Dark	44.500	23	21Eps CMa	1.5020	26000.	89	23601	No
290	GOM_NL__2PRFIN20060904_215317_000000422050_00501_23601_1772.N1	04-SEP-2006 21:53:17	Dark	42.000	117	Pi Pup	2.7060	3800.0	84	23601	No
291	GOM_NL__2PRFIN20060904_215718_000000422050_00501_23601_1773.N1	04-SEP-2006 21:57:18	Dark	41.500	161	Tau Pup	2.9310	4500.0	83	23601	No
292	GOM_NL__2PRFIN20060904_215830_000000452050_00501_23601_1774.N1	04-SEP-2006 21:58:30	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	23601	No
293	GOM_NL__2PRFIN20060904_220853_000000402051_00001_23602_1752.N1	04-SEP-2006 22:08:53	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	23602	No
294	GOM_NL__2PRFIN20060904_221013_000000462051_00001_23602_1753.N1	04-SEP-2006 22:10:13	Dark	46.000	9	Alp Eri	0.45300	24000.	92	23602	No
295	GOM_NL__2PRFIN20060904_221413_000000402051_00001_23602_1754.N1	04-SEP-2006 22:14:13	Straylight	40.000	148	Alp Tuc	2.8780	4100.0	80	23602	No
296	GOM_NL__2PRFIN20060904_221754_000000402051_00001_23602_1755.N1	04-SEP-2006 22:17:54	Straylight	40.000	31	Alp Gru	1.7340	15200.	80	23602	No
297	GOM_NL__2PRFIN20060904_222042_000000372051_00001_23602_1756.N1	04-SEP-2006 22:20:42	Straylight	36.500	172	Gam Gru	3.0030	13100.	73	23602	No
298	GOM_NL__2PRFIN20060904_222200_000000442051_00001_23602_1757.N1	04-SEP-2006 22:22:00	Straylight	43.500	18	24Alp PsA	1.1660	9700.0	87	23602	No
299	GOM_NL__2PRFIN20060904_222643_000000522051_00001_23602_1758.N1	04-SEP-2006 22:26:43	Bright	52.000	142	49Del Cap	2.8500	8900.0	104	23602	No
300	GOM_NL__2PRFIN20060904_222949_000000382051_00001_23602_1759.N1	04-SEP-2006 22:29:49	Bright	38.000	154	22Bet Aqr	2.8990	5700.0	76	23602	No
301	GOM_NL__2PRFIN20060904_223112_000000392051_00001_23602_1760.N1	04-SEP-2006 22:31:12	Bright	39.000	162	34Alp Aqr	2.9440	5350.0	78	23602	No
302	GOM_NL__2PRFIN20060904_223411_000000382051_00001_23602_1761.N1	04-SEP-2006 22:34:11	Bright	38.000	61	8Eps Peg	2.1000	3900.0	76	23602	No
303	GOM_NL__2PRFIN20060904_224109_000000362051_00001_23602_1762.N1	04-SEP-2006 22:41:09	Bright	36.000	92	53Eps Cyg	2.5000	4500.0	72	23602	No
304	GOM_NL__2PRFIN20060904_224305_000000342051_00001_23602_1763.N1	04-SEP-2006 22:43:05	Bright	33.500	66	37Gam Cyg	2.2080	5900.0	67	23602	No
305	GOM_NL__2PRFIN20060904_224418_000000352051_00001_23602_1764.N1	04-SEP-2006 22:44:18	Bright	34.500	19	50Alp Cyg	1.2460	10500.	69	23602	No
306	GOM_NL__2PRFIN20060904_224908_000000442051_00001_23602_1765.N1	04-SEP-2006 22:49:08	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	23602	No
307	GOM_NL__2PRFIN20060904_225650_000000372051_00001_23602_1766.N1	04-SEP-2006 22:56:50	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	23602	No
308	GOM_NL__2PRFIN20060904_231356_000000332051_00001_23602_1767.N1	04-SEP-2006 23:13:56	Bright	33.000	24	66Alp Gem	1.5800	10200.	66	23602	No
309	GOM_NL__2PRFIN20060904_231500_000000402051_00001_23602_1768.N1	04-SEP-2006 23:15:00	Bright	39.500	17	78Bet Gem	1.1610	4500.0	79	23602	No
310	GOM_NL__2PRFIN20060904_232149_000000502051_00001_23602_1769.N1	04-SEP-2006 23:21:49	Twilight	50.000	8	10Alp CMi	0.40000	6500.0	100	23602	No
311	GOM_NL__2PRFIN20060904_232923_000000382051_00001_23602_1770.N1	04-SEP-2006 23:29:23	Dark	37.500	132	15Rho Pup	2.8030	6900.0	75	23602	No
312	GOM_NL__2PRFIN20060904_233057_000000422051_00001_23602_1771.N1	04-SEP-2006 23:30:57	Dark	42.000	179	24Omi2CMa	3.0320	24000.	84	23602	No
313	GOM_NL__2PRFIN20060904_233226_000000432051_00001_23602_1772.N1	04-SEP-2006 23:32:26	Dark	42.500	23	21Eps CMa	1.5020	26000.	85	23602	No
314	GOM_NL__2PRFIN20060904_233354_000000442051_00001_23602_1773.N1	04-SEP-2006 23:33:54	Dark	44.000	117	Pi Pup	2.7060	3800.0	88	23602	No
315	GOM_NL__2PRFIN20060904_233754_000000402051_00001_23602_1774.N1	04-SEP-2006 23:37:54	Dark	40.000	161	Tau Pup	2.9310	4500.0	80	23602	No
316	GOM_NL__2PRFIN20060904_233906_000000532051_00001_23602_1775.N1	04-SEP-2006 23:39:06	Dark	52.500	2	Alp Car	-0.73600	7000.0	105	23602	No
317	GOM_NL__2PRFIN20060904_234929_000000392051_00002_23603_1752.N1	04-SEP-2006 23:49:29	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	23603	No
318	GOM_NL__2PRFIN20060904_235049_000000522051_00002_23603_1753.N1	04-SEP-2006 23:50:49	Dark	52.000	9	Alp Eri	0.45300	24000.	104	23603	No
319	GOM_NL__2PRFIN20060904_235449_000000392051_00002_23603_1754.N1	04-SEP-2006 23:54:49	Straylight	38.500	148	Alp Tuc	2.8780	4100.0	77	23603	No
320	GOM_NL__2PRFIN20060904_235830_000000392051_00002_23603_1755.N1	04-SEP-2006 23:58:30	Straylight	39.000	31	Alp Gru	1.7340	15200.	78	23603	No

### 3. Quality information per product

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

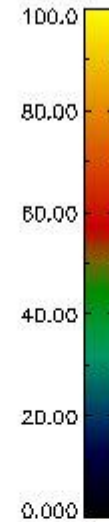
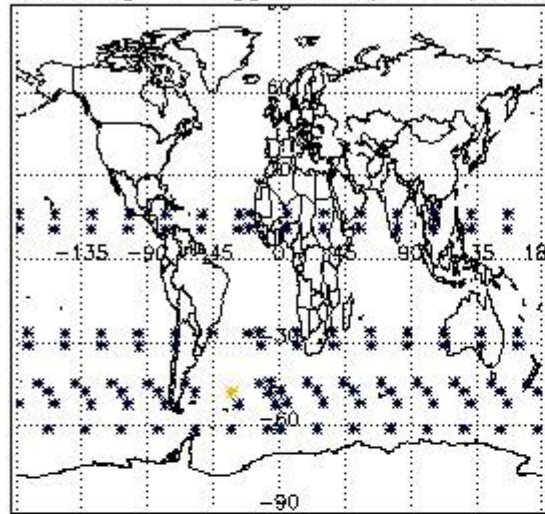
#### 3.1 Plot quality information per product (time dependant)



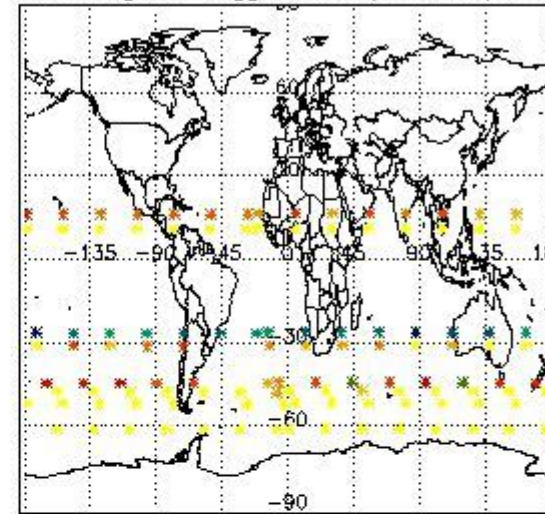
3.2 Plot quality information per product (world map)



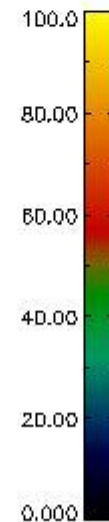
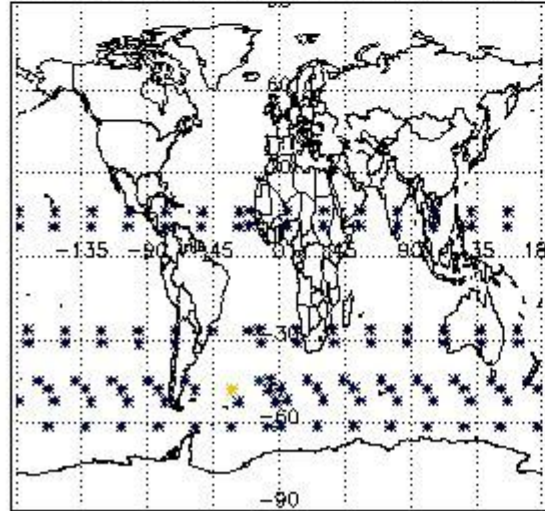
Percentage of flagged data per O3 profile



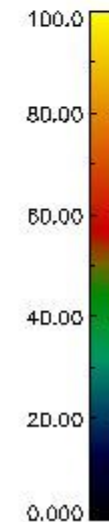
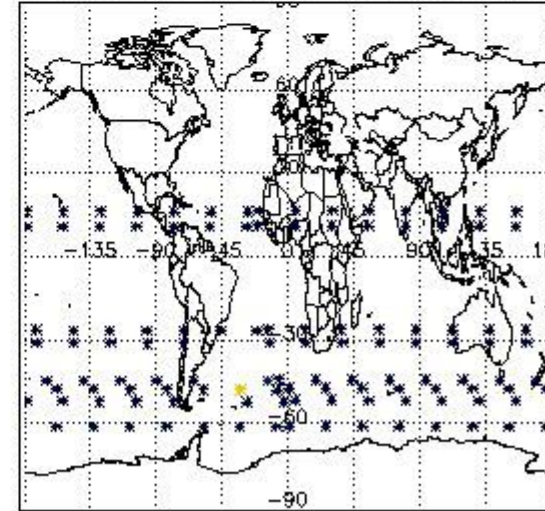
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

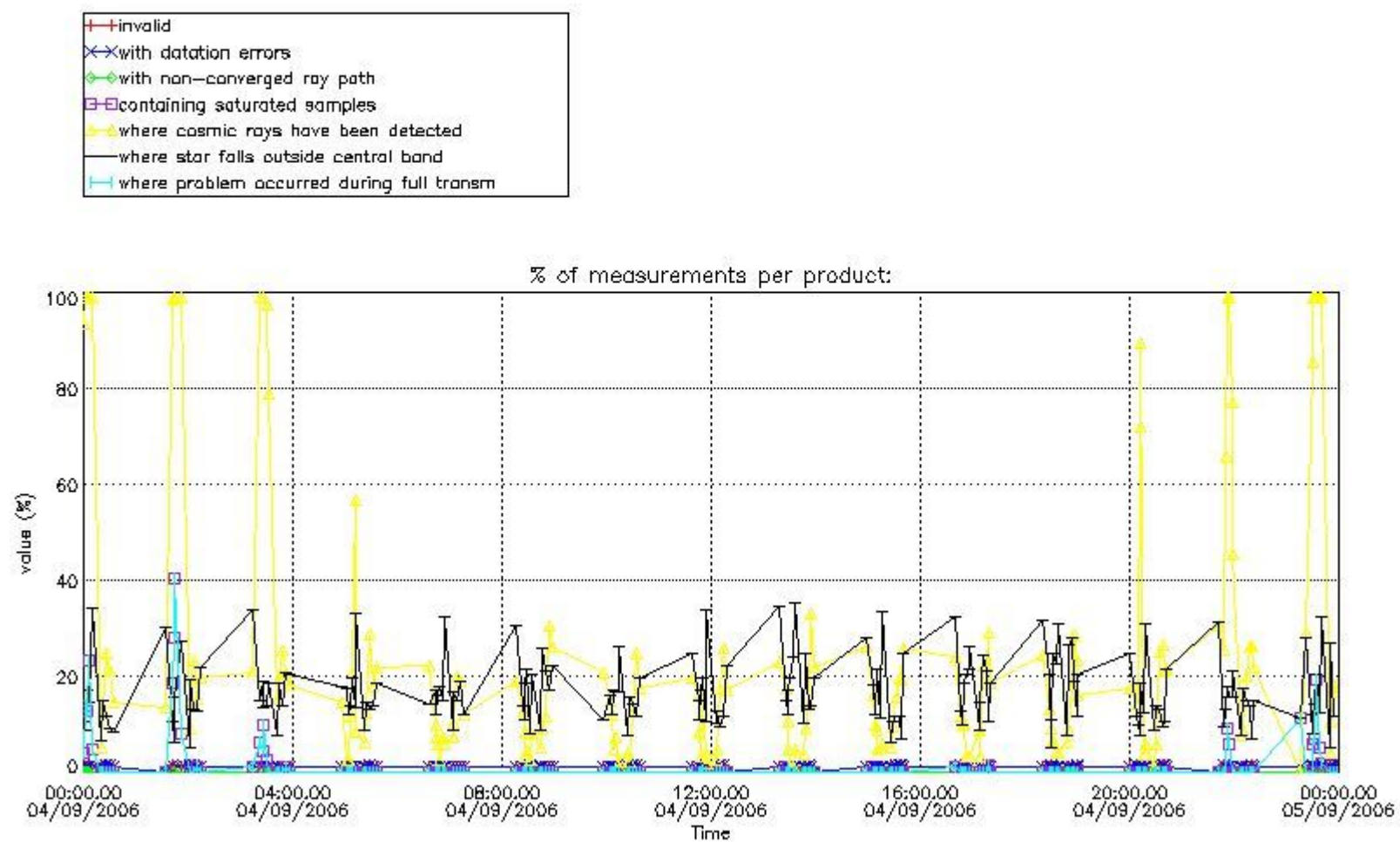


#### 4. Level 1 quality information per product

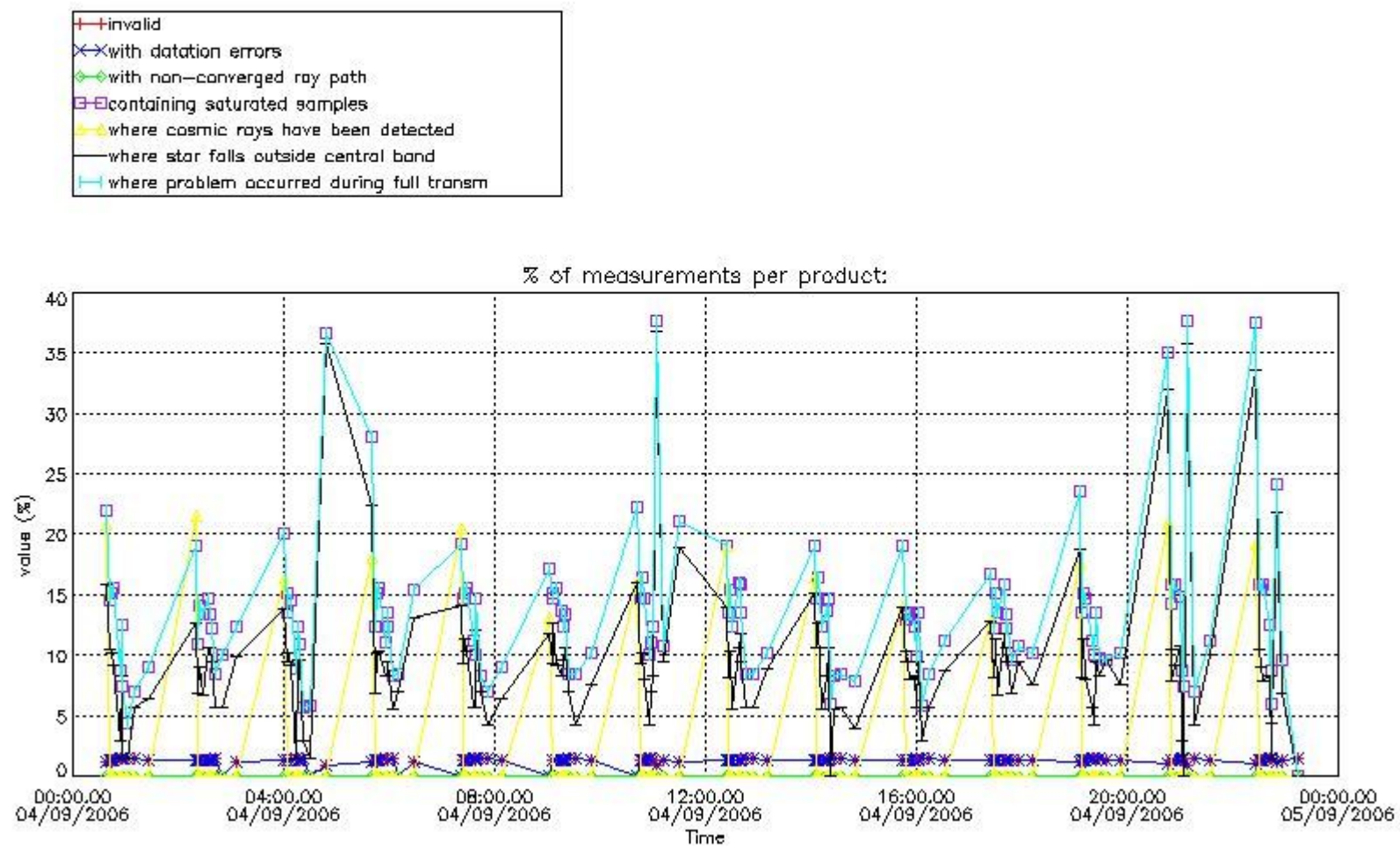
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



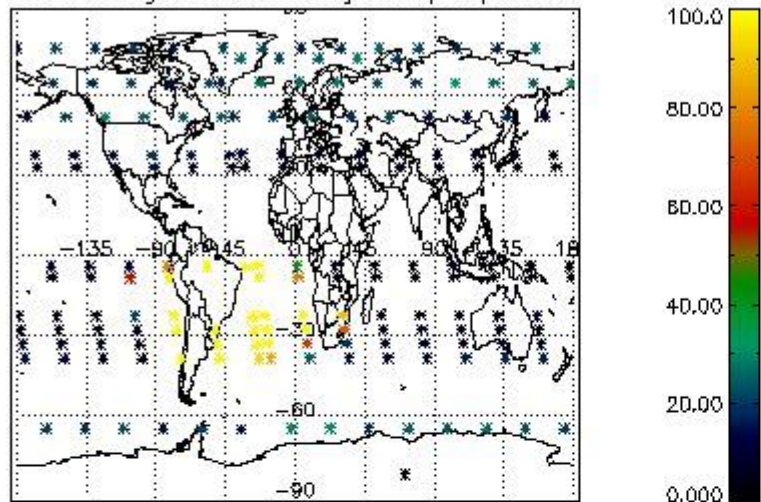
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



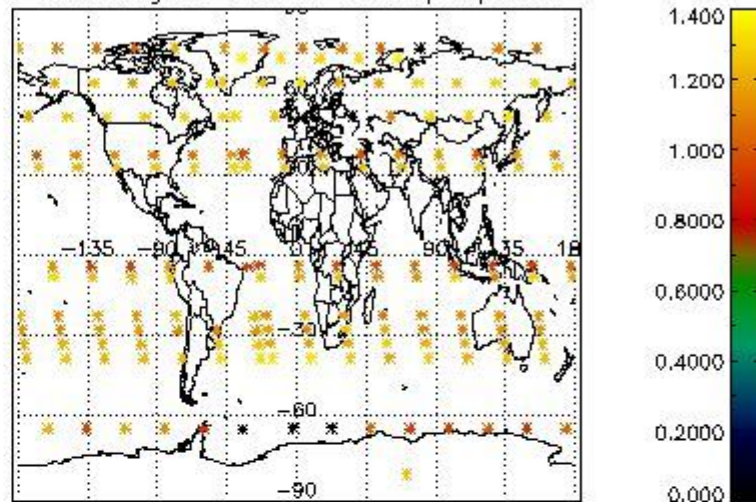
*4.2 Plot quality information per product coming from level 1b processing (world map)*

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

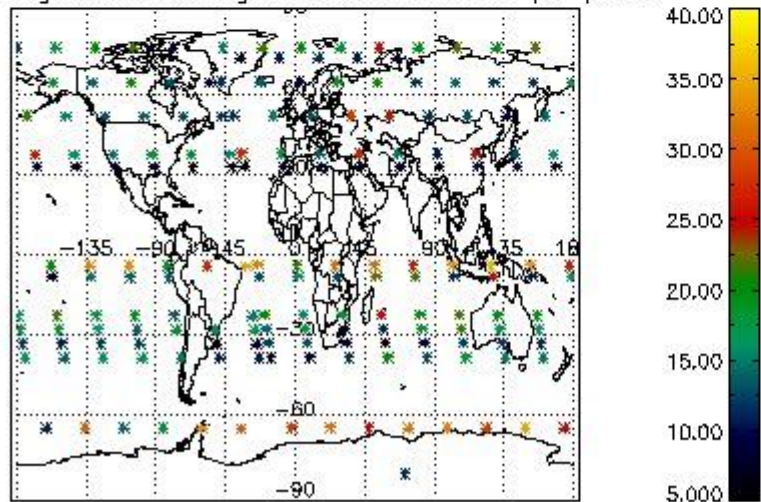
Percentage of cosmic ray hits per profile



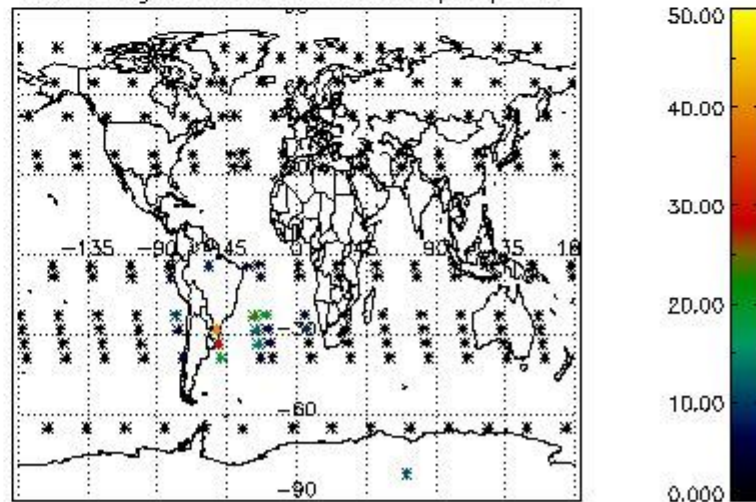
Percentage of datation errors per profile



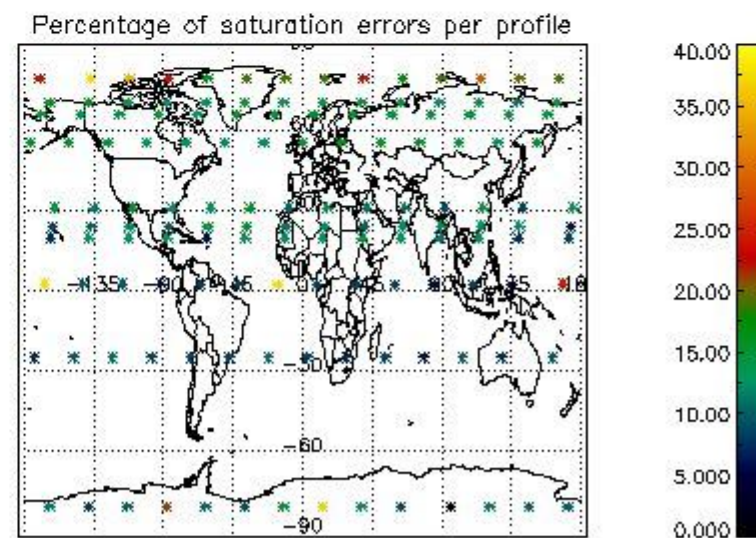
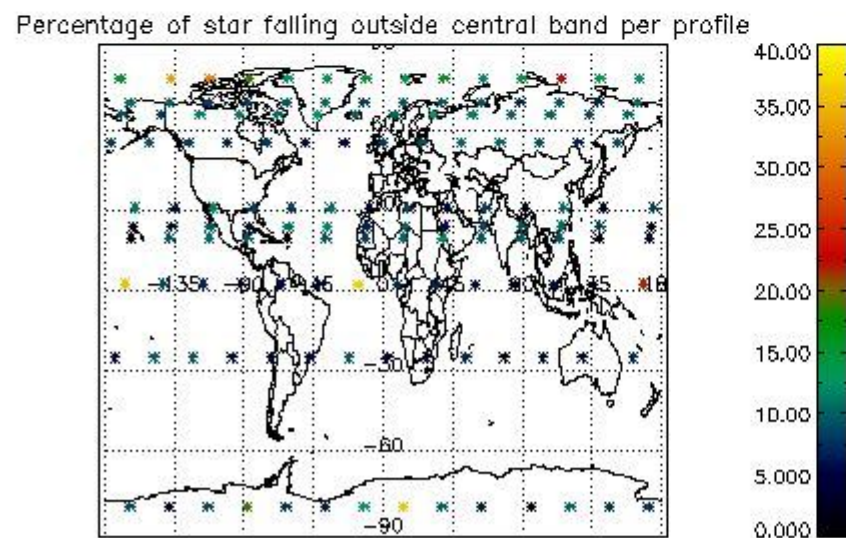
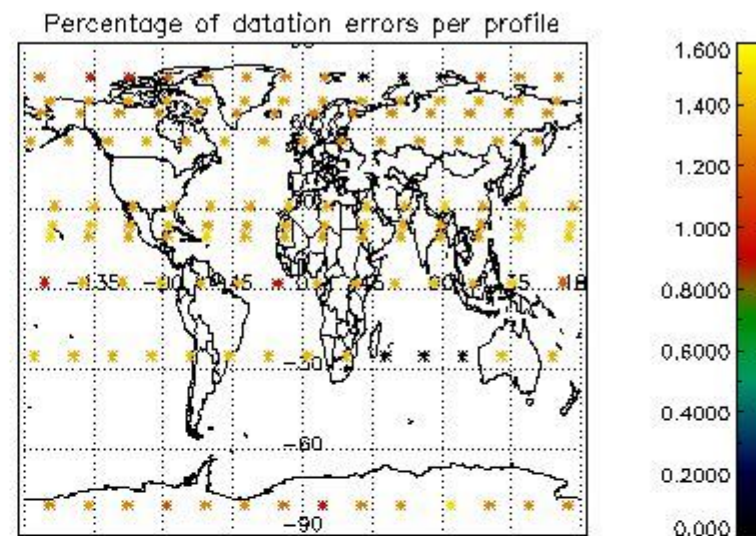
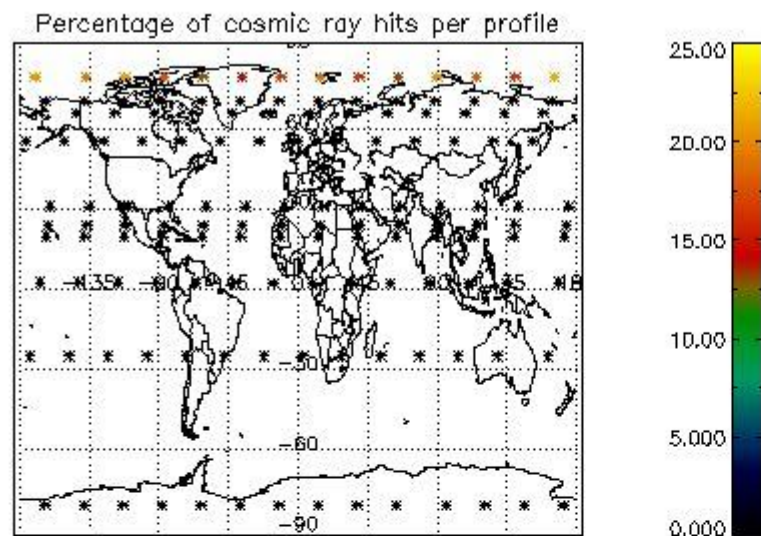
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

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

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

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

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

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

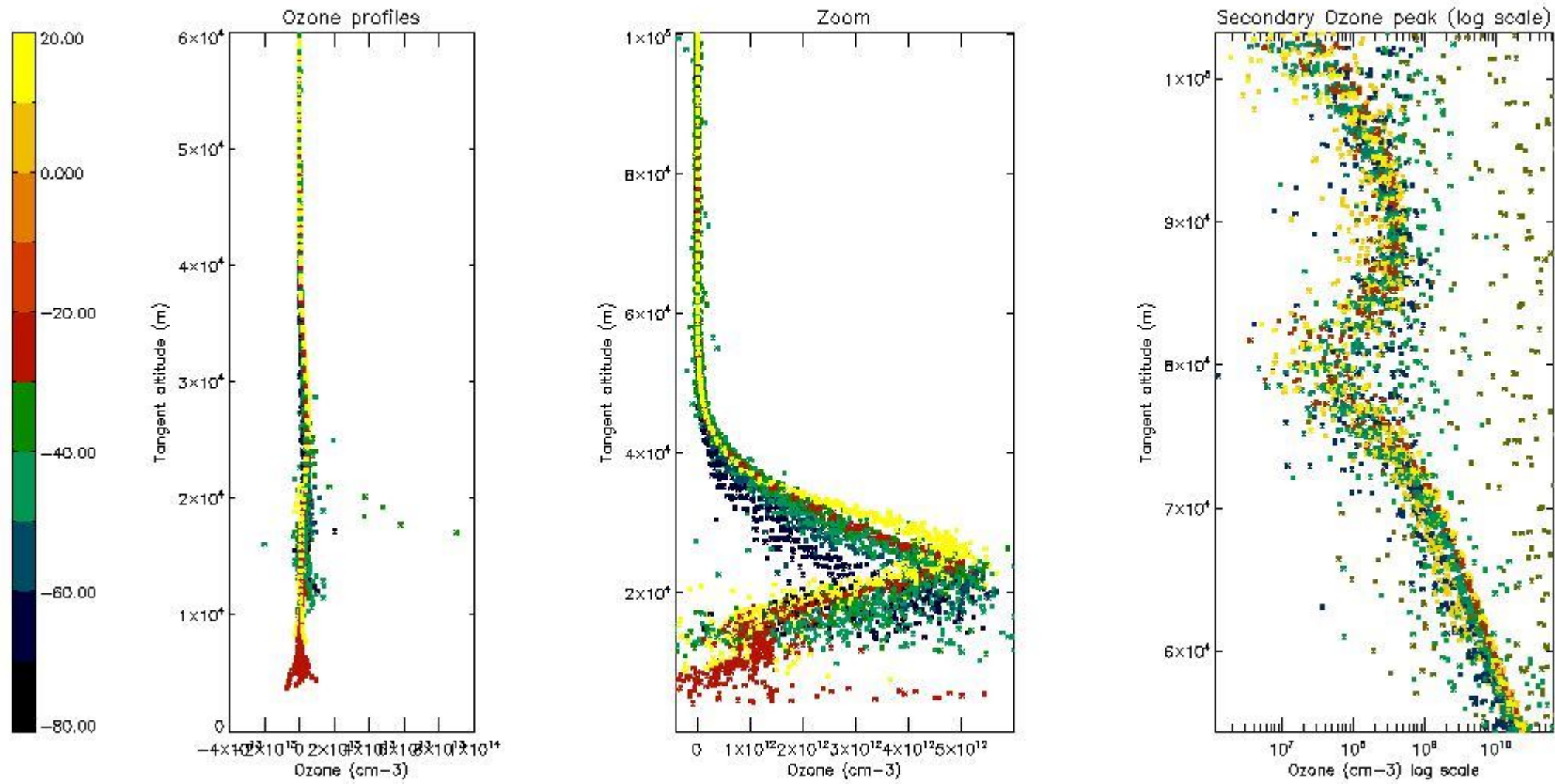
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	39
STD < 20	20

STD < 10	14
STD < 5	10

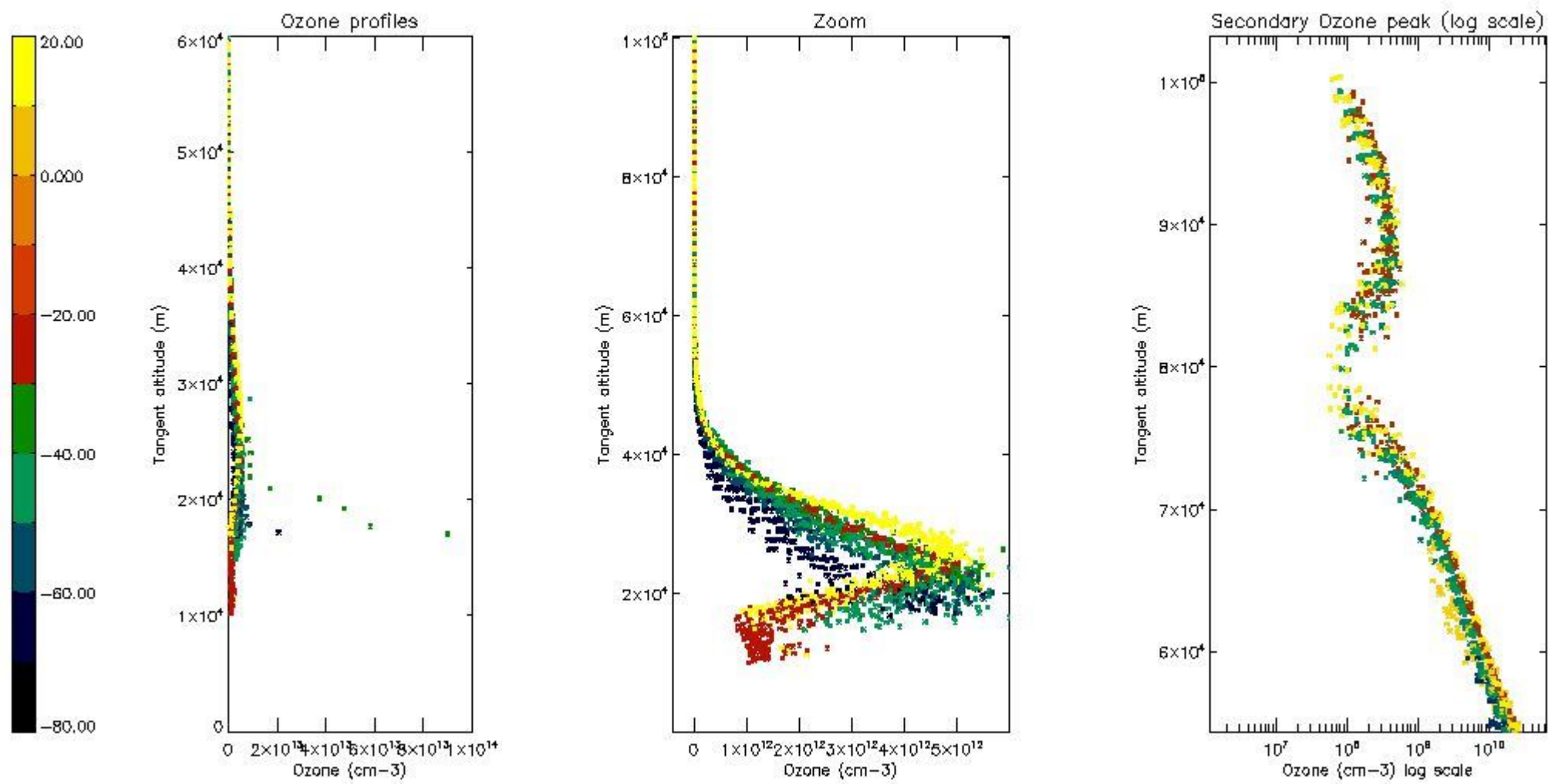
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



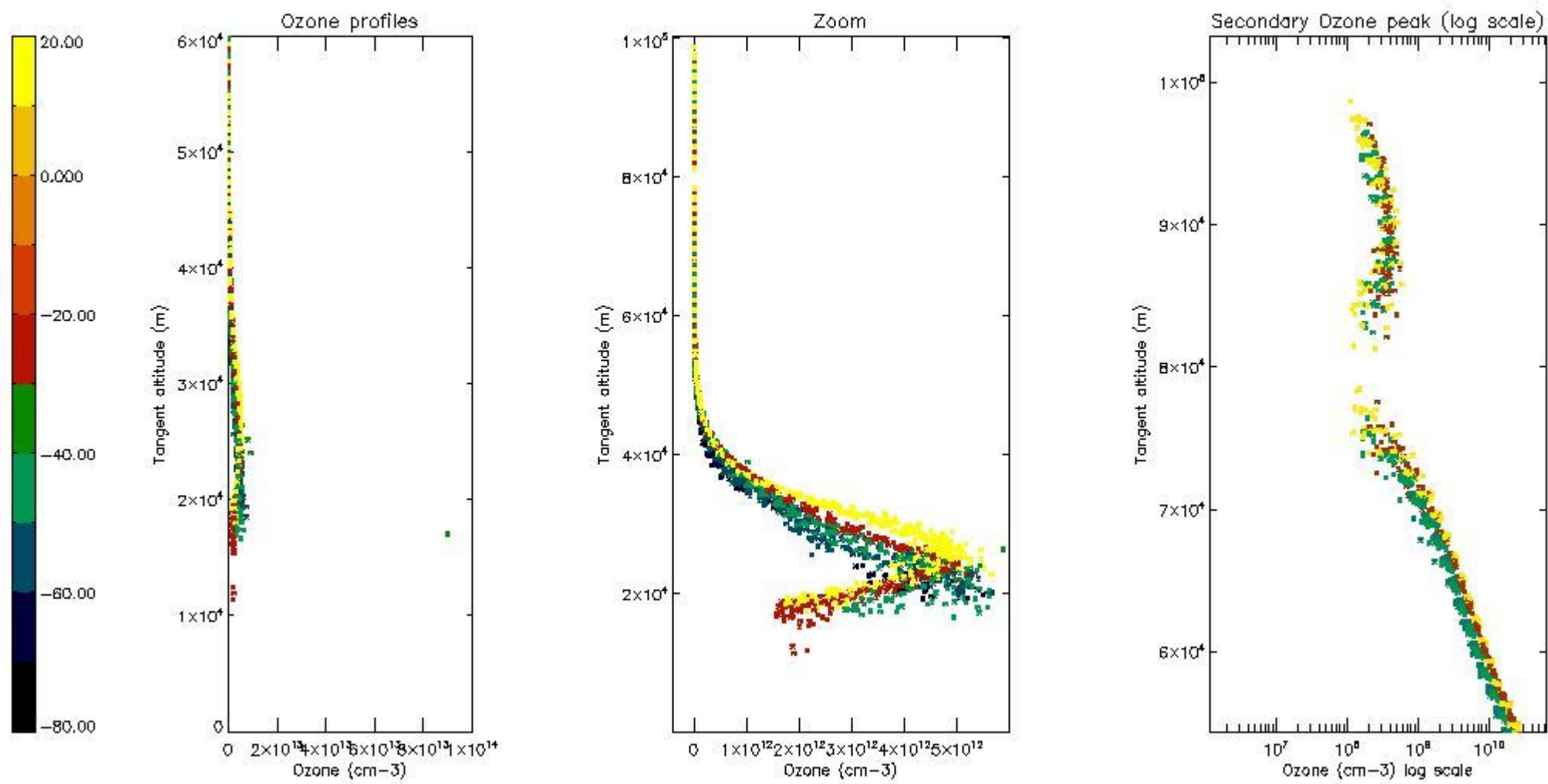
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



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

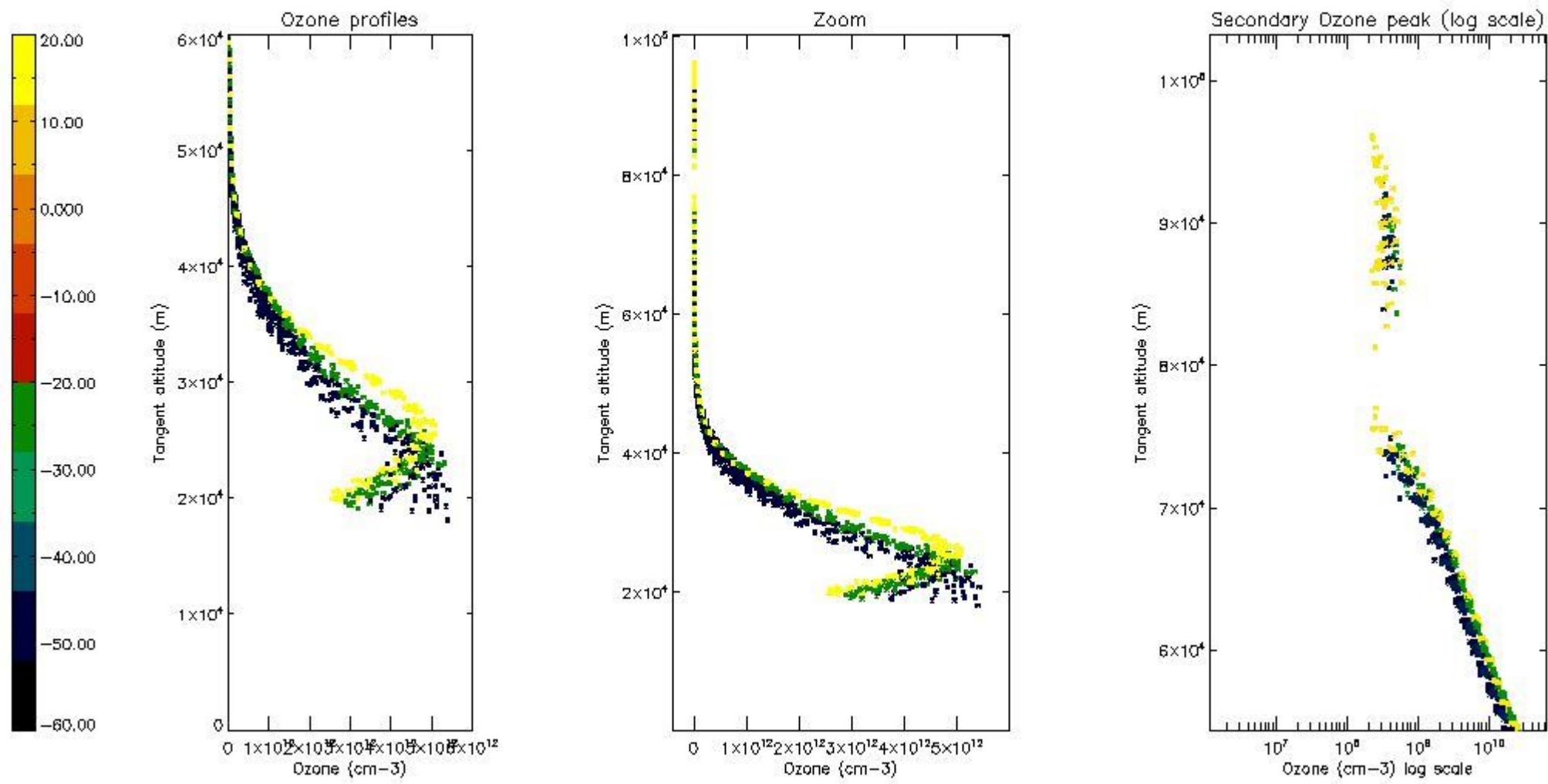
The colorbar represents the latitude.



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

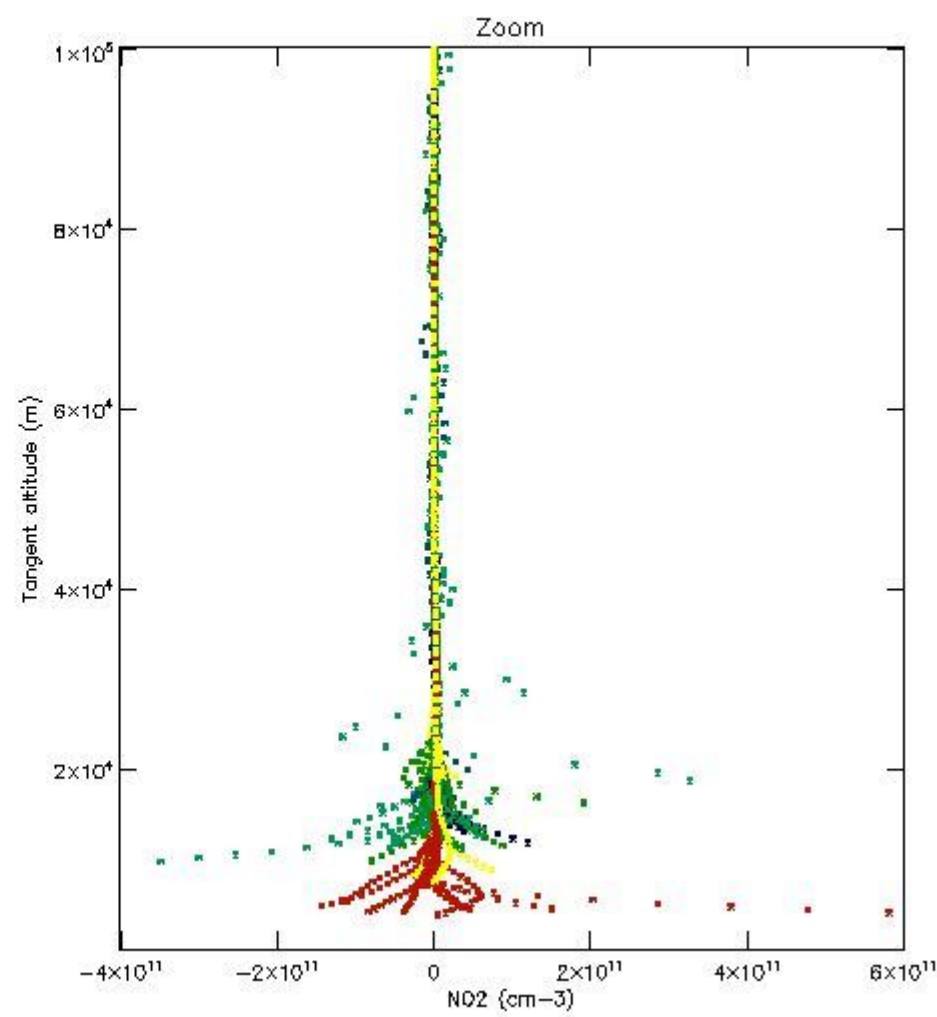
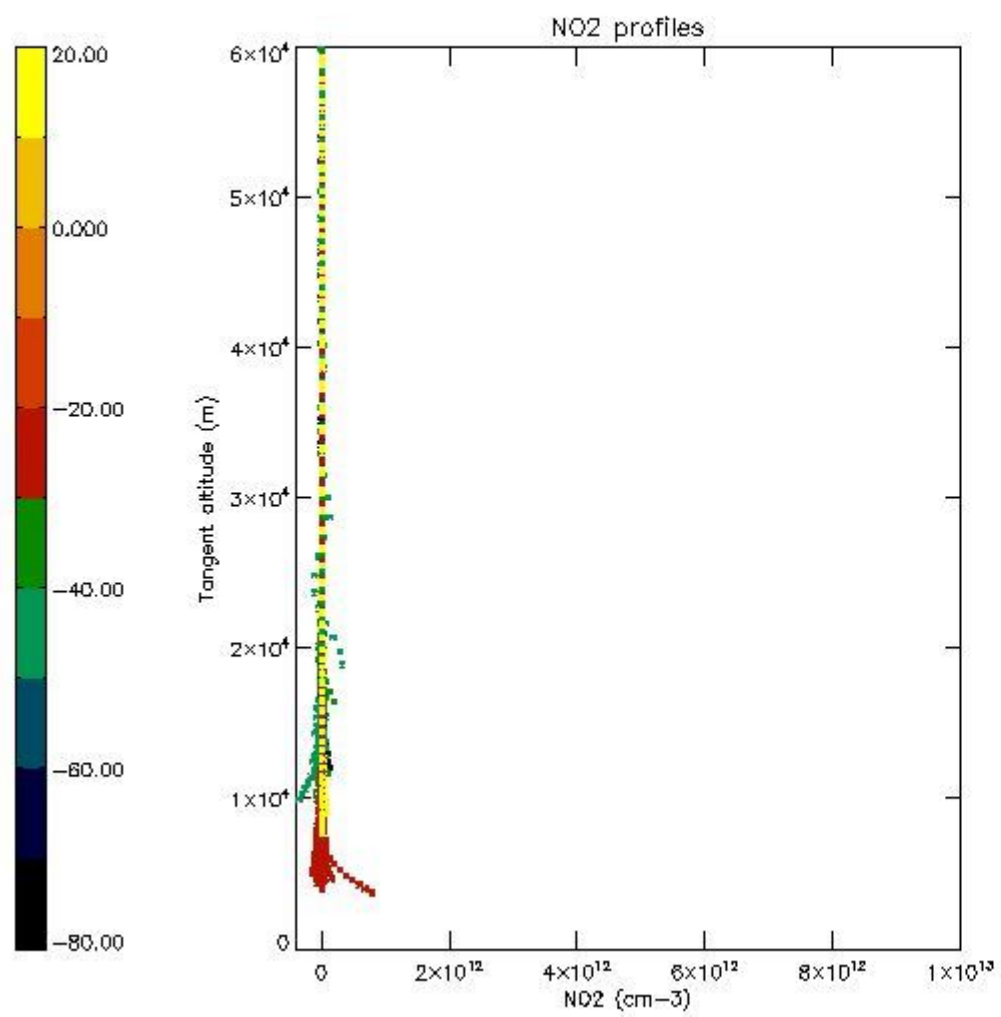
The colorbar represents the latitude.





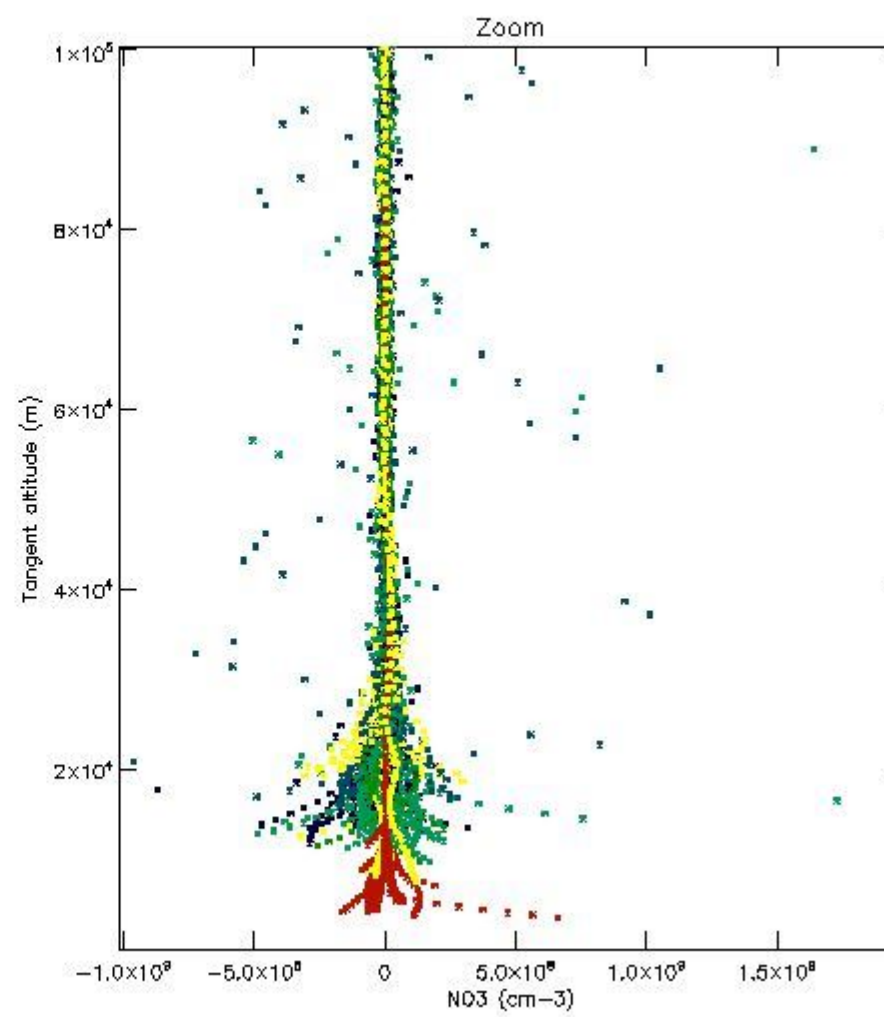
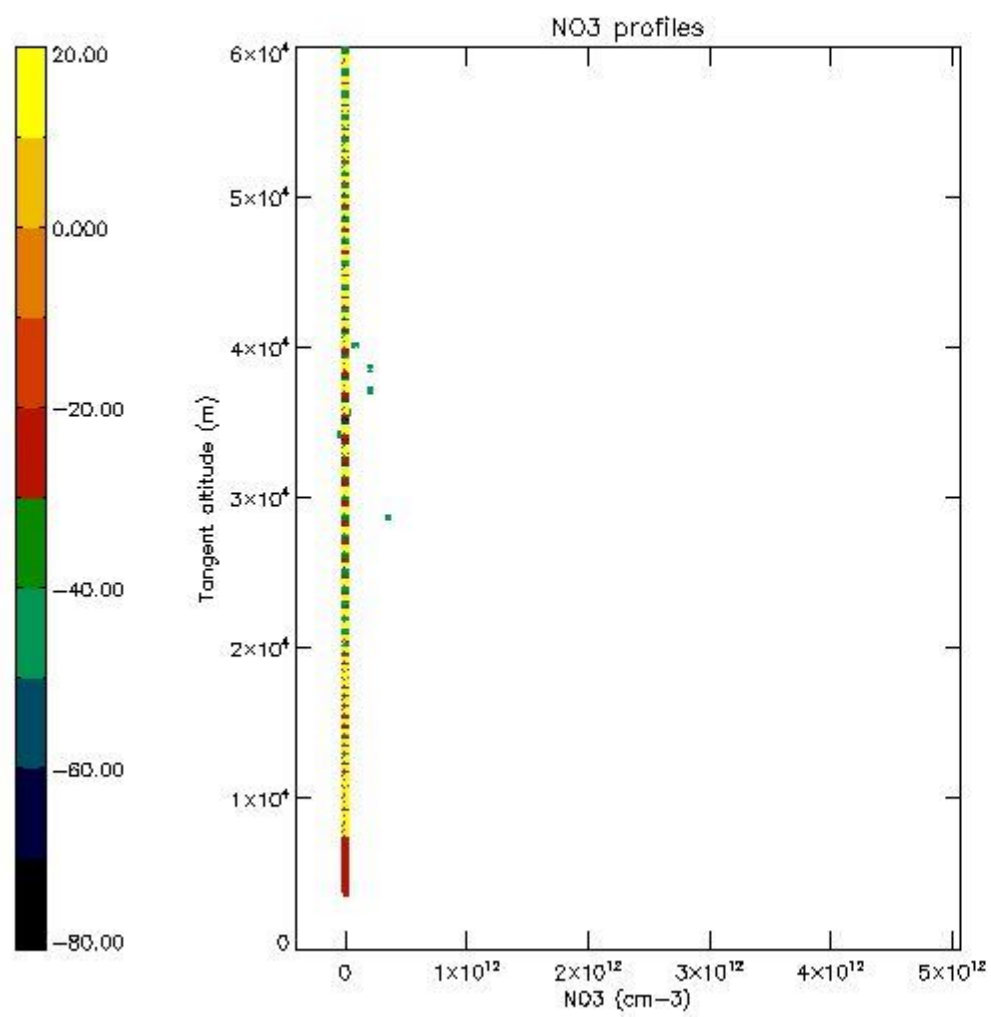
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



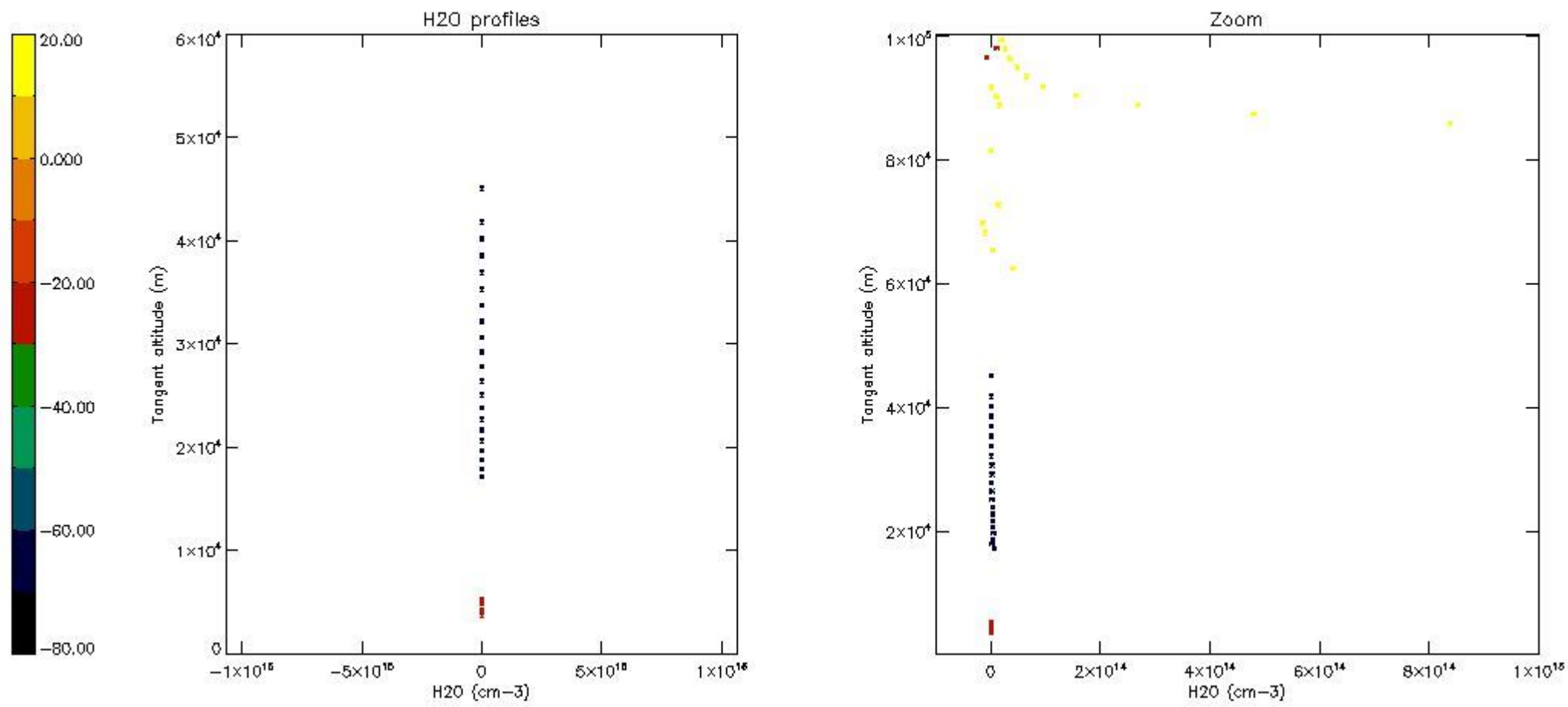
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



*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	04-SEP-2006 00:00:57
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	04-SEP-2006 00:00:57
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	04-SEP-2006 00:00:57

# GOMOS Level 2 Daily Report

## SUMMARY

### [1. General Info](#)

### [2. Summary of processed GOM\\_NL\\_2P products](#)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM\_NL\_\_2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	24APR2013 03:56:47
Data source version	GOMOS/6.01
Start time of products	04-09-2006 (04SEP2006 00:00:00)
Stop time of products	05-09-2006 (05SEP2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	320
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__2PRFIN20060904_000057_000000382050_00488_23588_1557.N1	04-SEP-2006 00:00:57	Dark	38.000	132	15Rho Pup	2.8030	6900.0	76	23588	No
2	GOM_NL__2PRFIN20060904_000226_000000402050_00488_23588_1558.N1	04-SEP-2006 00:02:26	Dark	40.000	179	24Omi2CMa	3.0320	24000.	80	23588	No
3	GOM_NL__2PRFIN20060904_000355_000000442050_00488_23588_1559.N1	04-SEP-2006 00:03:55	Dark	43.500	23	21Eps CMa	1.5020	26000.	87	23588	No
4	GOM_NL__2PRFIN20060904_000524_000000412050_00488_23588_1560.N1	04-SEP-2006 00:05:24	Dark	41.000	117	Pi Pup	2.7060	3800.0	82	23588	No
5	GOM_NL__2PRFIN20060904_001036_000000542050_00488_23588_1561.N1	04-SEP-2006 00:10:36	Dark	54.000	2	Alp Car	-0.73600	7000.0	108	23588	No
6	GOM_NL__2PRFIN20060904_002059_000000392050_00489_23589_1732.N1	04-SEP-2006 00:20:59	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	23589	No
7	GOM_NL__2PRFIN20060904_002218_000000442050_00489_23589_1733.N1	04-SEP-2006 00:22:18	Dark	43.500	9	Alp Eri	0.45300	24000.	87	23589	No
8	GOM_NL__2PRFIN20060904_002623_000000392050_00489_23589_1734.N1	04-SEP-2006 00:26:23	Straylight	38.500	148	Alp Tuc	2.8780	4100.0	77	23589	No
9	GOM_NL__2PRFIN20060904_003004_000000382050_00489_23589_1735.N1	04-SEP-2006 00:30:04	Straylight	38.000	31	Alp Gru	1.7340	15200.	76	23589	No
10	GOM_NL__2PRFIN20060904_003410_000000412050_00489_23589_1736.N1	04-SEP-2006 00:34:10	Straylight	41.000	18	24Alp PsA	1.1660	9700.0	82	23589	No
11	GOM_NL__2PRFIN20060904_003854_000000412050_00489_23589_1737.N1	04-SEP-2006 00:38:54	Bright	41.000	142	49Del Cap	2.8500	8900.0	82	23589	No
12	GOM_NL__2PRFIN20060904_004201_000000382050_00489_23589_1738.N1	04-SEP-2006 00:42:01	Bright	38.000	154	22Bet Aqr	2.8990	5700.0	76	23589	No
13	GOM_NL__2PRFIN20060904_004325_000000402050_00489_23589_1739.N1	04-SEP-2006 00:43:25	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	23589	No
14	GOM_NL__2PRFIN20060904_004624_000000392050_00489_23589_1740.N1	04-SEP-2006 00:46:24	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	23589	No
15	GOM_NL__2PRFIN20060904_005320_000000352050_00489_23589_1741.N1	04-SEP-2006 00:53:20	Bright	34.500	92	53Eps Cyg	2.5000	4500.0	69	23589	No
16	GOM_NL__2PRFIN20060904_005516_000000362050_00489_23589_1742.N1	04-SEP-2006 00:55:16	Bright	36.000	66	37Gam Cyg	2.2080	5900.0	72	23589	No
17	GOM_NL__2PRFIN20060904_005630_000000342050_00489_23589_1743.N1	04-SEP-2006 00:56:30	Bright	34.000	19	50Alp Cyg	1.2460	10500.	68	23589	No
18	GOM_NL__2PRFIN20060904_010122_000000342050_00489_23589_1744.N1	04-SEP-2006 01:01:22	Bright	34.000	89	5Alp Cep	2.4510	8000.0	68	23589	No
19	GOM_NL__2PRFIN20060904_010903_000000362050_00489_23589_1745.N1	04-SEP-2006 01:09:03	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23589	No
20	GOM_NL__2PRFIN20060904_012608_000000392050_00489_23589_1746.N1	04-SEP-2006 01:26:08	Bright	39.000	24	66Alp Gem	1.5800	10200.	78	23589	No
21	GOM_NL__2PRFIN20060904_013358_000000522050_00489_23589_1747.N1	04-SEP-2006 01:33:58	Twilight	51.500	8	10Alp CMi	0.40000	6500.0	103	23589	No
22	GOM_NL__2PRFIN20060904_014133_000000382050_00489_23589_1748.N1	04-SEP-2006 01:41:33	Dark	38.000	132	15Rho Pup	2.8030	6900.0	76	23589	No
23	GOM_NL__2PRFIN20060904_014303_000000402050_00489_23589_1749.N1	04-SEP-2006 01:43:03	Dark	39.500	179	24Omi2CMa	3.0320	24000.	79	23589	No
24	GOM_NL__2PRFIN20060904_014431_000000452050_00489_23589_1750.N1	04-SEP-2006 01:44:31	Dark	44.500	23	21Eps CMa	1.5020	26000.	89	23589	No
25	GOM_NL__2PRFIN20060904_015113_000000502050_00489_23589_1751.N1	04-SEP-2006 01:51:13	Dark	49.500	2	Alp Car	-0.73600	7000.0	99	23589	No
26	GOM_NL__2PRFIN20060904_020135_000000392050_00490_23590_1732.N1	04-SEP-2006 02:01:35	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	23590	No
27	GOM_NL__2PRFIN20060904_020254_000000472050_00490_23590_1733.N1	04-SEP-2006 02:02:54	Dark	47.000	9	Alp Eri	0.45300	24000.	94	23590	No
28	GOM_NL__2PRFIN20060904_020659_000000392050_00490_23590_1734.N1	04-SEP-2006 02:06:59	Straylight	38.500	148	Alp Tuc	2.8780	4100.0	77	23590	No
29	GOM_NL__2PRFIN20060904_021040_000000402050_00490_23590_1735.N1	04-SEP-2006 02:10:40	Straylight	39.500	31	Alp Gru	1.7340	15200.	79	23590	No
30	GOM_NL__2PRFIN20060904_021446_000000482050_00490_23590_1736.N1	04-SEP-2006 02:14:46	Straylight	48.000	18	24Alp PsA	1.1660	9700.0	96	23590	No
31	GOM_NL__2PRFIN20060904_021930_000000402050_00490_23590_1737.N1	04-SEP-2006 02:19:30	Bright	39.500	142	49Del Cap	2.8500	8900.0	79	23590	No
32	GOM_NL__2PRFIN20060904_022237_000000372050_00490_23590_1738.N1	04-SEP-2006 02:22:37	Bright	36.500	154	22Bet Aqr	2.8990	5700.0	73	23590	No
33	GOM_NL__2PRFIN20060904_022401_000000392050_00490_23590_1739.N1	04-SEP-2006 02:24:01	Bright	39.000	162	34Alp Aqr	2.9440	5350.0	78	23590	No
34	GOM_NL__2PRFIN20060904_022700_000000382050_00490_23590_1740.N1	04-SEP-2006 02:27:00	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	23590	No
35	GOM_NL__2PRFIN20060904_023356_000000382050_00490_23590_1741.N1	04-SEP-2006 02:33:56	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	23590	No
36	GOM_NL__2PRFIN20060904_023552_000000382050_00490_23590_1742.N1	04-SEP-2006 02:35:52	Bright	37.500	66	37Gam Cyg	2.2080	5900.0	75	23590	No
37	GOM_NL__2PRFIN20060904_023706_000000372050_00490_23590_1743.N1	04-SEP-2006 02:37:06	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	23590	No
38	GOM_NL__2PRFIN20060904_024158_000000362050_00490_23590_1744.N1	04-SEP-2006 02:41:58	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	23590	No
39	GOM_NL__2PRFIN20060904_024939_000000352050_00490_23590_1745.N1	04-SEP-2006 02:49:39	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	23590	No
40	GOM_NL__2PRFIN20060904_030644_000000412050_00490_23590_1746.N1	04-SEP-2006 03:06:44	Bright	40.500	24	66Alp Gem	1.5800	10200.	81	23590	No
41	GOM_NL__2PRFIN20060904_031434_000000552050_00490_23590_1747.N1	04-SEP-2006 03:14:34	Twilight	55.000	8	10Alp CMi	0.40000	6500.0	110	23590	No
42	GOM_NL__2PRFIN20060904_032209_000000412050_00490_23590_1748.N1	04-SEP-2006 03:22:09	Dark	40.500	132	15Rho Pup	2.8030	6900.0	81	23590	No









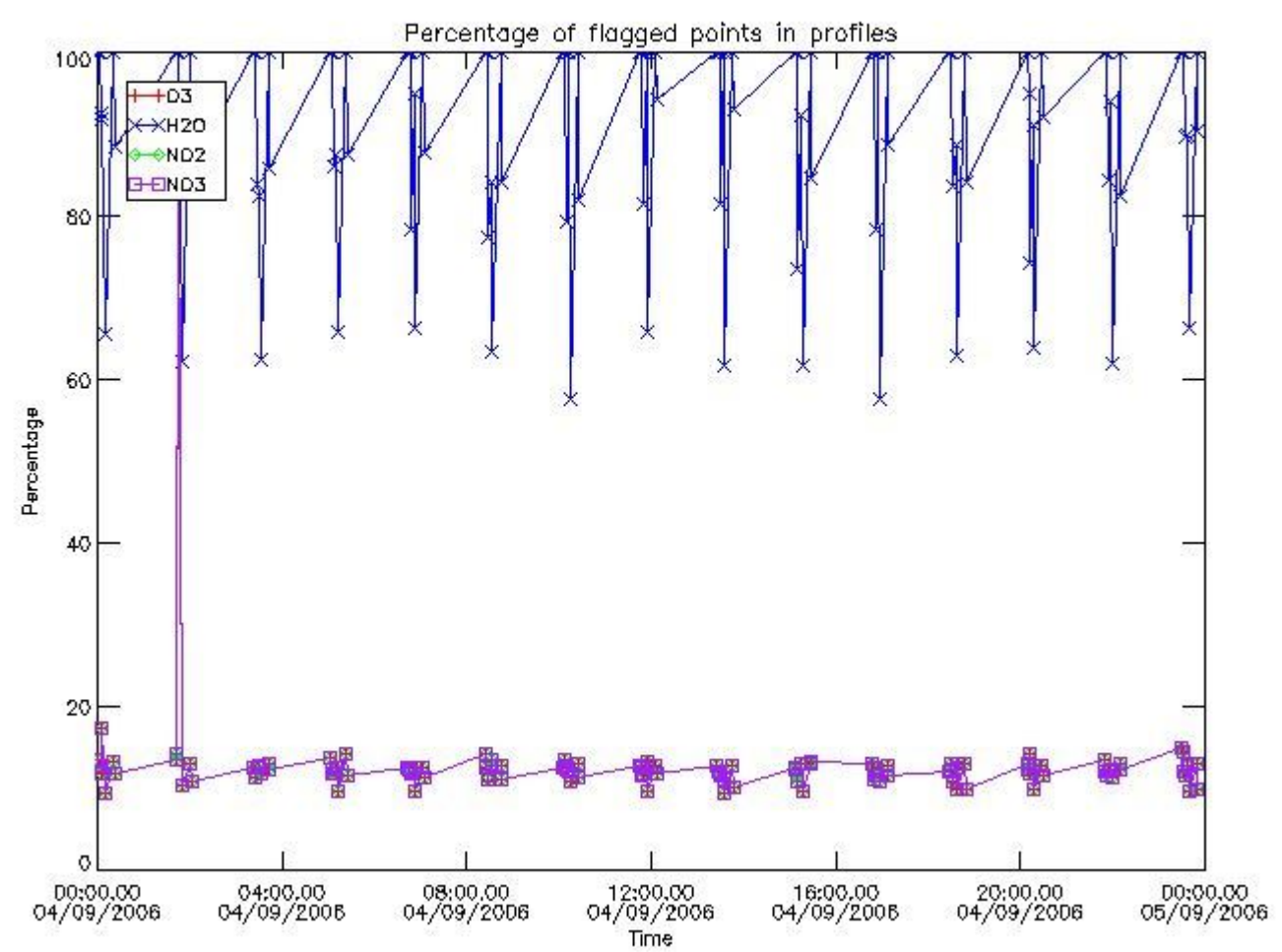


279	GOM_NL__2PRFIN20060904_205335_000000382050_00501_23601_1761.N1	04-SEP-2006 20:53:35	Bright	38.000	61	8Eps Peg	2.1000	3900.0	76	23601	No
280	GOM_NL__2PRFIN20060904_210033_000000372050_00501_23601_1762.N1	04-SEP-2006 21:00:33	Bright	37.000	92	53Eps Cyg	2.5000	4500.0	74	23601	No
281	GOM_NL__2PRFIN20060904_210229_000000352050_00501_23601_1763.N1	04-SEP-2006 21:02:29	Bright	34.500	66	37Gam Cyg	2.2080	5900.0	69	23601	No
282	GOM_NL__2PRFIN20060904_210342_000000342050_00501_23601_1764.N1	04-SEP-2006 21:03:42	Bright	33.500	19	50Alp Cyg	1.2460	10500.	67	23601	No
283	GOM_NL__2PRFIN20060904_210832_000000532050_00501_23601_1765.N1	04-SEP-2006 21:08:32	Bright	53.000	89	5Alp Cep	2.4510	8000.0	106	23601	No
284	GOM_NL__2PRFIN20060904_211614_000000362050_00501_23601_1766.N1	04-SEP-2006 21:16:14	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23601	No
285	GOM_NL__2PRFIN20060904_213321_000000402050_00501_23601_1767.N1	04-SEP-2006 21:33:21	Bright	40.000	24	66Alp Gem	1.5800	10200.	80	23601	No
286	GOM_NL__2PRFIN20060904_214113_000000532050_00501_23601_1768.N1	04-SEP-2006 21:41:13	Twilight	52.500	8	10Alp CMi	0.40000	6500.0	105	23601	No
287	GOM_NL__2PRFIN20060904_214847_000000382050_00501_23601_1769.N1	04-SEP-2006 21:48:47	Dark	37.500	132	15Rho Pup	2.8030	6900.0	75	23601	No
288	GOM_NL__2PRFIN20060904_215021_000000432050_00501_23601_1770.N1	04-SEP-2006 21:50:21	Dark	42.500	179	24Omi2CMa	3.0320	24000.	85	23601	No
289	GOM_NL__2PRFIN20060904_215149_000000452050_00501_23601_1771.N1	04-SEP-2006 21:51:49	Dark	44.500	23	21Eps CMa	1.5020	26000.	89	23601	No
290	GOM_NL__2PRFIN20060904_215317_000000422050_00501_23601_1772.N1	04-SEP-2006 21:53:17	Dark	42.000	117	Pi Pup	2.7060	3800.0	84	23601	No
291	GOM_NL__2PRFIN20060904_215718_000000422050_00501_23601_1773.N1	04-SEP-2006 21:57:18	Dark	41.500	161	Tau Pup	2.9310	4500.0	83	23601	No
292	GOM_NL__2PRFIN20060904_215830_000000452050_00501_23601_1774.N1	04-SEP-2006 21:58:30	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	23601	No
293	GOM_NL__2PRFIN20060904_220853_000000402051_00001_23602_1752.N1	04-SEP-2006 22:08:53	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	23602	No
294	GOM_NL__2PRFIN20060904_221013_000000462051_00001_23602_1753.N1	04-SEP-2006 22:10:13	Dark	46.000	9	Alp Eri	0.45300	24000.	92	23602	No
295	GOM_NL__2PRFIN20060904_221413_000000402051_00001_23602_1754.N1	04-SEP-2006 22:14:13	Straylight	40.000	148	Alp Tuc	2.8780	4100.0	80	23602	No
296	GOM_NL__2PRFIN20060904_221754_000000402051_00001_23602_1755.N1	04-SEP-2006 22:17:54	Straylight	40.000	31	Alp Gru	1.7340	15200.	80	23602	No
297	GOM_NL__2PRFIN20060904_222042_000000372051_00001_23602_1756.N1	04-SEP-2006 22:20:42	Straylight	36.500	172	Gam Gru	3.0030	13100.	73	23602	No
298	GOM_NL__2PRFIN20060904_222200_000000442051_00001_23602_1757.N1	04-SEP-2006 22:22:00	Straylight	43.500	18	24Alp PsA	1.1660	9700.0	87	23602	No
299	GOM_NL__2PRFIN20060904_222643_000000522051_00001_23602_1758.N1	04-SEP-2006 22:26:43	Bright	52.000	142	49Del Cap	2.8500	8900.0	104	23602	No
300	GOM_NL__2PRFIN20060904_222949_000000382051_00001_23602_1759.N1	04-SEP-2006 22:29:49	Bright	38.000	154	22Bet Aqr	2.8990	5700.0	76	23602	No
301	GOM_NL__2PRFIN20060904_223112_000000392051_00001_23602_1760.N1	04-SEP-2006 22:31:12	Bright	39.000	162	34Alp Aqr	2.9440	5350.0	78	23602	No
302	GOM_NL__2PRFIN20060904_223411_000000382051_00001_23602_1761.N1	04-SEP-2006 22:34:11	Bright	38.000	61	8Eps Peg	2.1000	3900.0	76	23602	No
303	GOM_NL__2PRFIN20060904_224109_000000362051_00001_23602_1762.N1	04-SEP-2006 22:41:09	Bright	36.000	92	53Eps Cyg	2.5000	4500.0	72	23602	No
304	GOM_NL__2PRFIN20060904_224305_000000342051_00001_23602_1763.N1	04-SEP-2006 22:43:05	Bright	33.500	66	37Gam Cyg	2.2080	5900.0	67	23602	No
305	GOM_NL__2PRFIN20060904_224418_000000352051_00001_23602_1764.N1	04-SEP-2006 22:44:18	Bright	34.500	19	50Alp Cyg	1.2460	10500.	69	23602	No
306	GOM_NL__2PRFIN20060904_224908_000000442051_00001_23602_1765.N1	04-SEP-2006 22:49:08	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	23602	No
307	GOM_NL__2PRFIN20060904_225650_000000372051_00001_23602_1766.N1	04-SEP-2006 22:56:50	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	23602	No
308	GOM_NL__2PRFIN20060904_231356_000000332051_00001_23602_1767.N1	04-SEP-2006 23:13:56	Bright	33.000	24	66Alp Gem	1.5800	10200.	66	23602	No
309	GOM_NL__2PRFIN20060904_231500_000000402051_00001_23602_1768.N1	04-SEP-2006 23:15:00	Bright	39.500	17	78Bet Gem	1.1610	4500.0	79	23602	No
310	GOM_NL__2PRFIN20060904_232149_000000502051_00001_23602_1769.N1	04-SEP-2006 23:21:49	Twilight	50.000	8	10Alp CMi	0.40000	6500.0	100	23602	No
311	GOM_NL__2PRFIN20060904_232923_000000382051_00001_23602_1770.N1	04-SEP-2006 23:29:23	Dark	37.500	132	15Rho Pup	2.8030	6900.0	75	23602	No
312	GOM_NL__2PRFIN20060904_233057_000000422051_00001_23602_1771.N1	04-SEP-2006 23:30:57	Dark	42.000	179	24Omi2CMa	3.0320	24000.	84	23602	No
313	GOM_NL__2PRFIN20060904_233226_000000432051_00001_23602_1772.N1	04-SEP-2006 23:32:26	Dark	42.500	23	21Eps CMa	1.5020	26000.	85	23602	No
314	GOM_NL__2PRFIN20060904_233354_000000442051_00001_23602_1773.N1	04-SEP-2006 23:33:54	Dark	44.000	117	Pi Pup	2.7060	3800.0	88	23602	No
315	GOM_NL__2PRFIN20060904_233754_000000402051_00001_23602_1774.N1	04-SEP-2006 23:37:54	Dark	40.000	161	Tau Pup	2.9310	4500.0	80	23602	No
316	GOM_NL__2PRFIN20060904_233906_000000532051_00001_23602_1775.N1	04-SEP-2006 23:39:06	Dark	52.500	2	Alp Car	-0.73600	7000.0	105	23602	No
317	GOM_NL__2PRFIN20060904_234929_000000392051_00002_23603_1752.N1	04-SEP-2006 23:49:29	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	23603	No
318	GOM_NL__2PRFIN20060904_235049_000000522051_00002_23603_1753.N1	04-SEP-2006 23:50:49	Dark	52.000	9	Alp Eri	0.45300	24000.	104	23603	No
319	GOM_NL__2PRFIN20060904_235449_000000392051_00002_23603_1754.N1	04-SEP-2006 23:54:49	Straylight	38.500	148	Alp Tuc	2.8780	4100.0	77	23603	No
320	GOM_NL__2PRFIN20060904_235830_000000392051_00002_23603_1755.N1	04-SEP-2006 23:58:30	Straylight	39.000	31	Alp Gru	1.7340	15200.	78	23603	No

### 3. Quality information per product

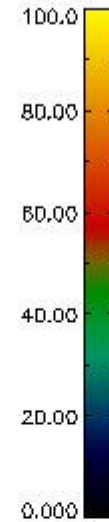
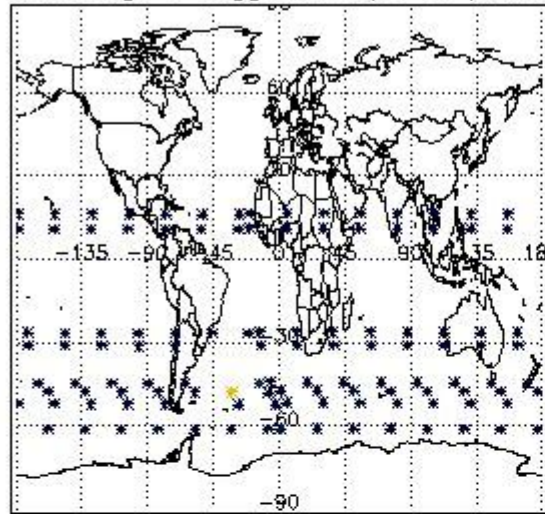
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

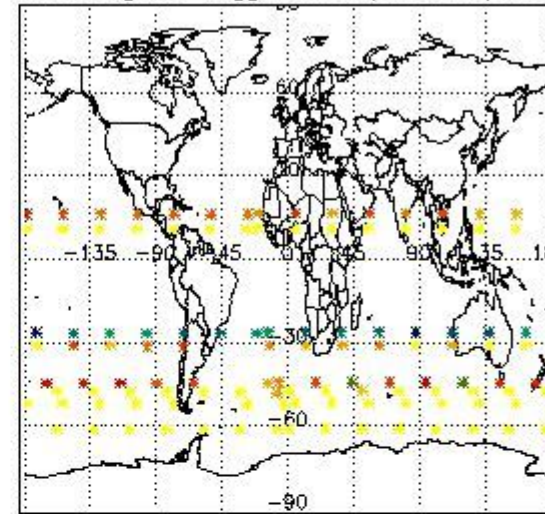


3.2 Plot quality information per product (world map)

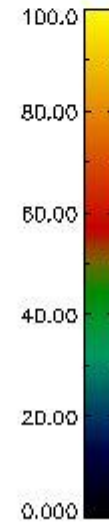
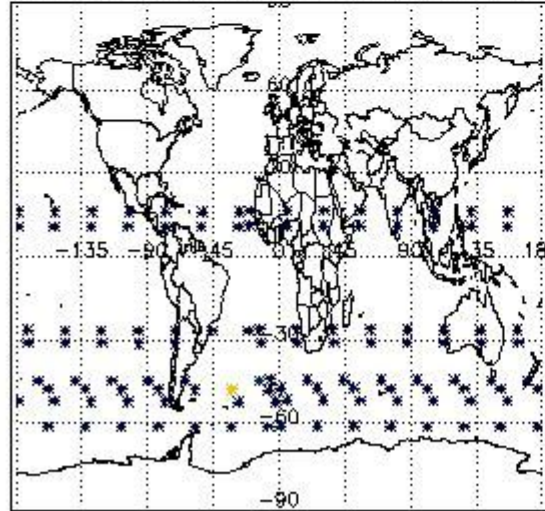
Percentage of flagged data per O3 profile



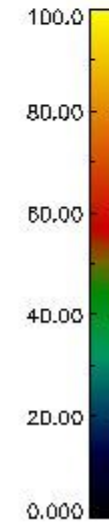
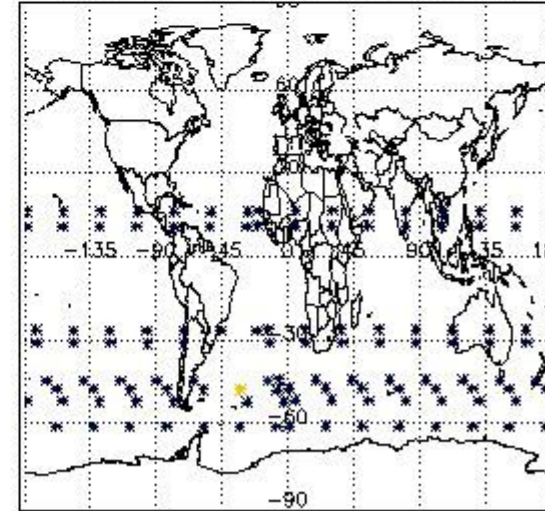
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

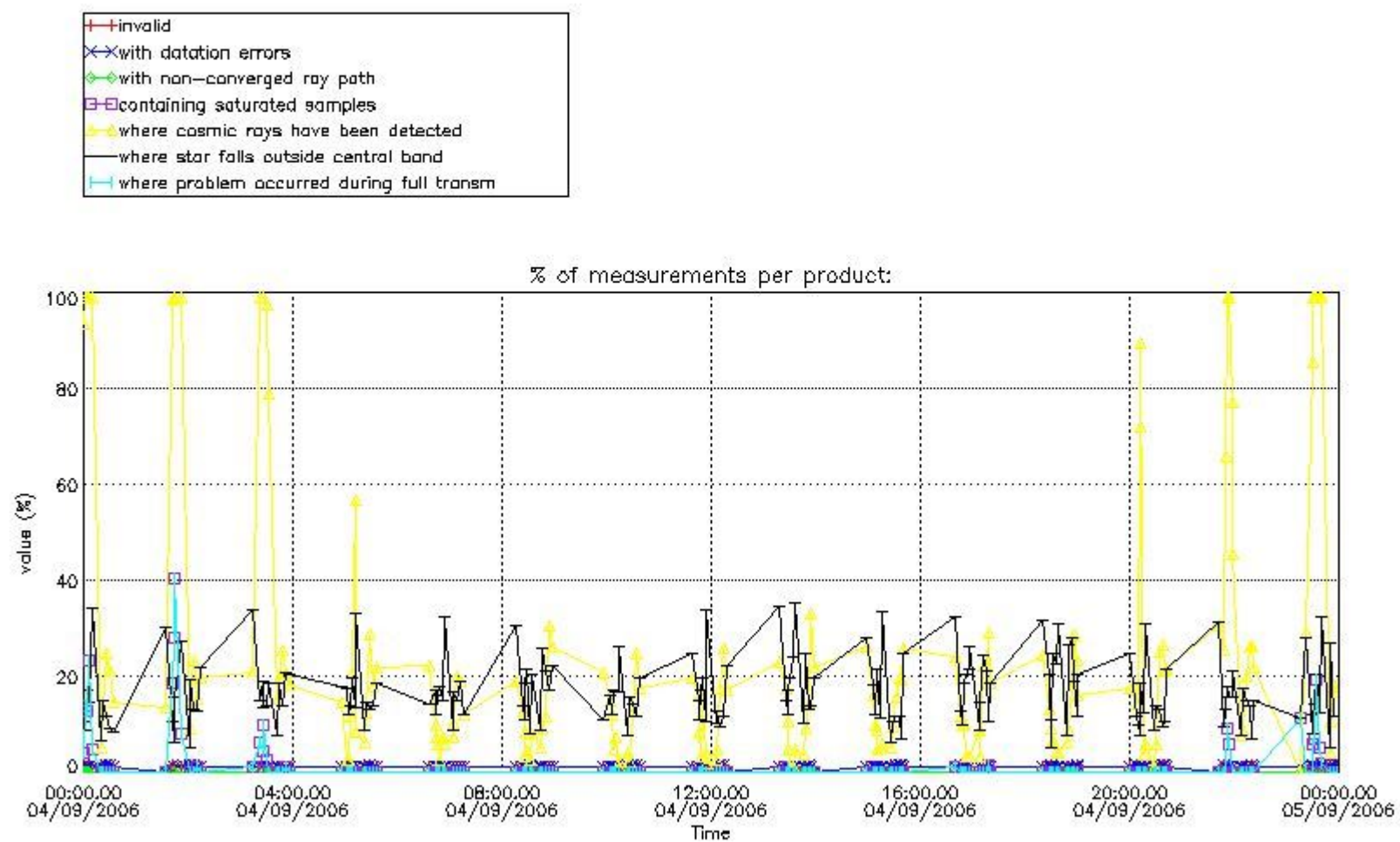


#### 4. Level 1 quality information per product

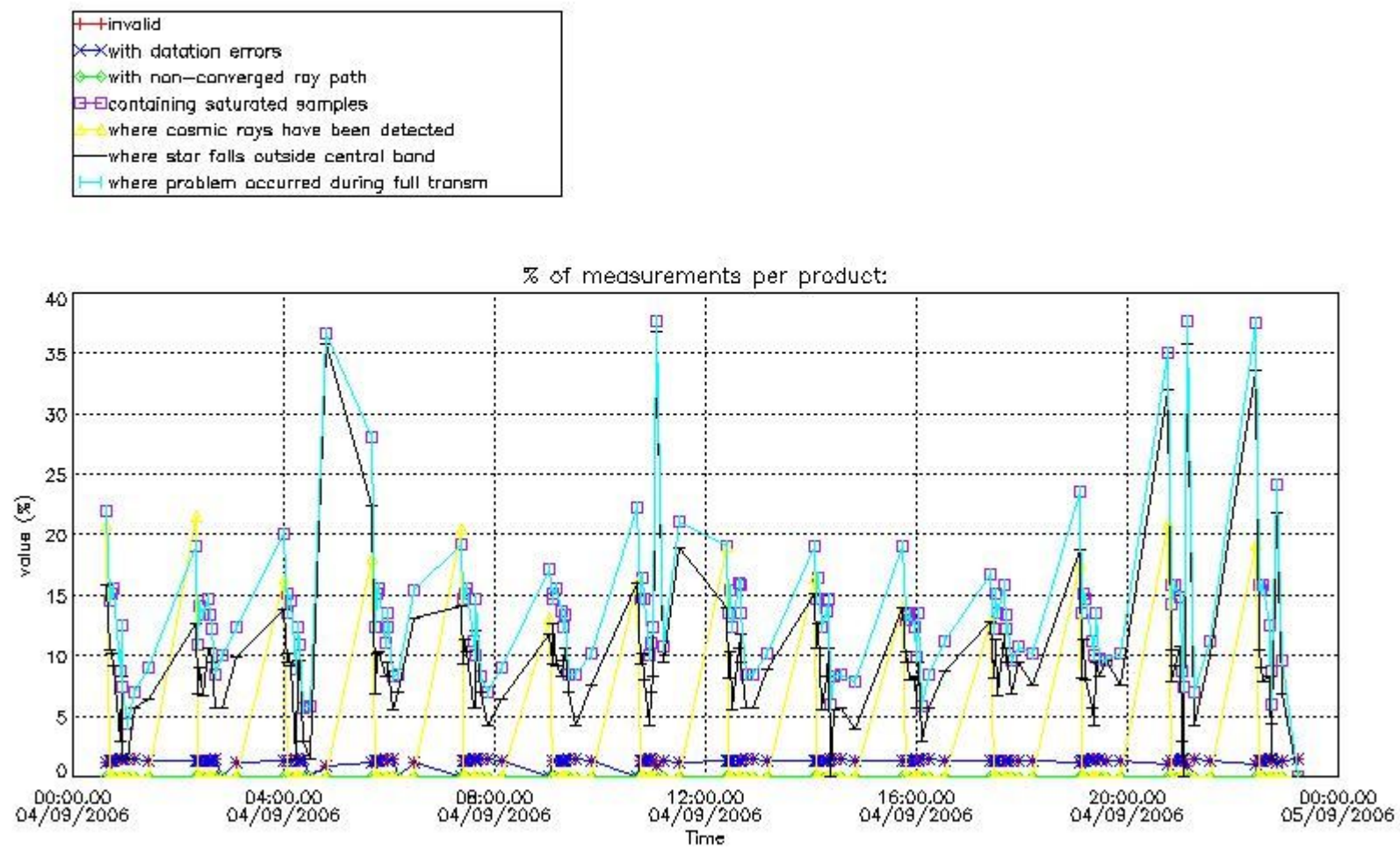
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



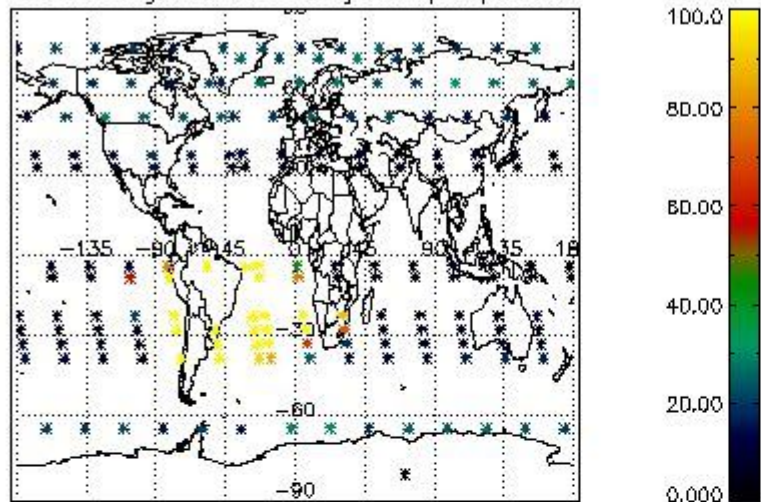
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



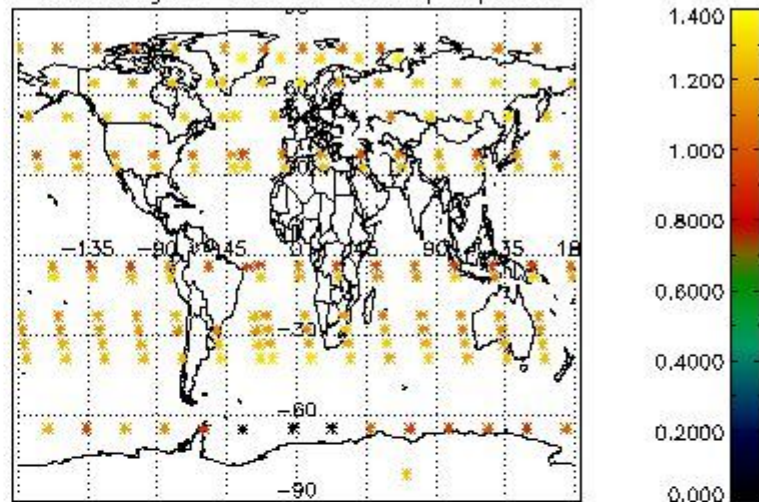
4.2 Plot quality information per product coming from level 1b processing (world map)

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

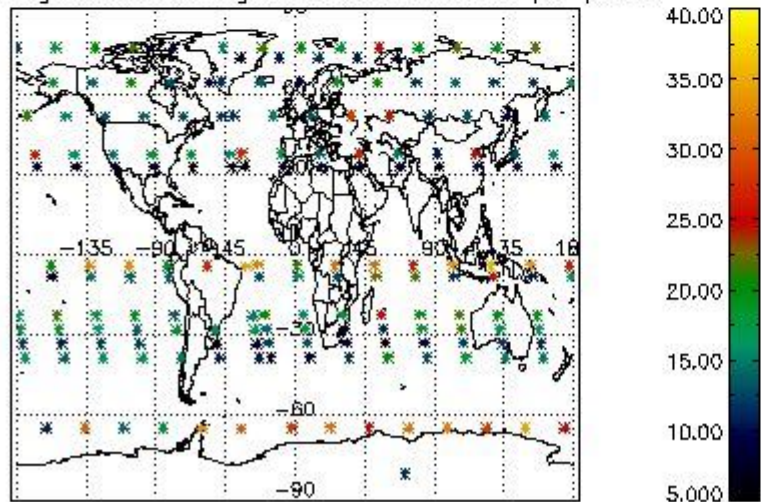
Percentage of cosmic ray hits per profile



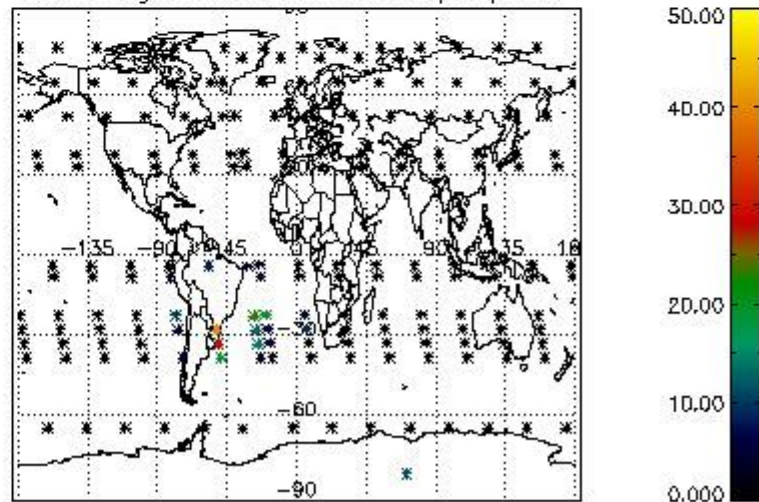
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

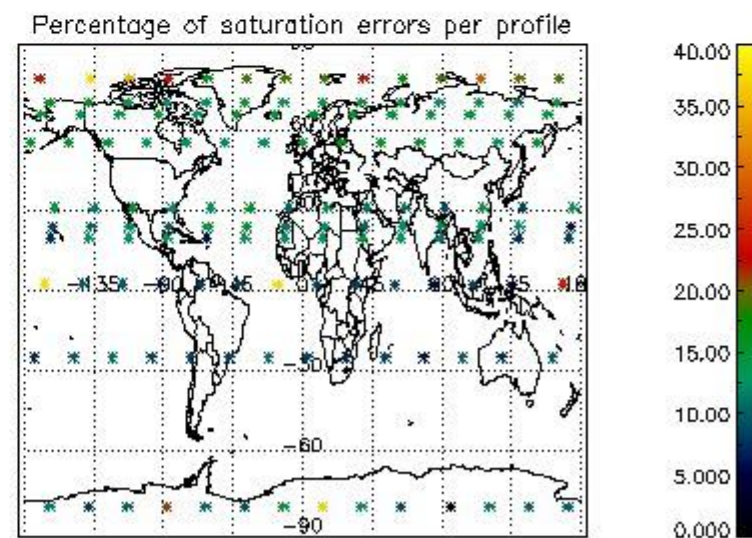
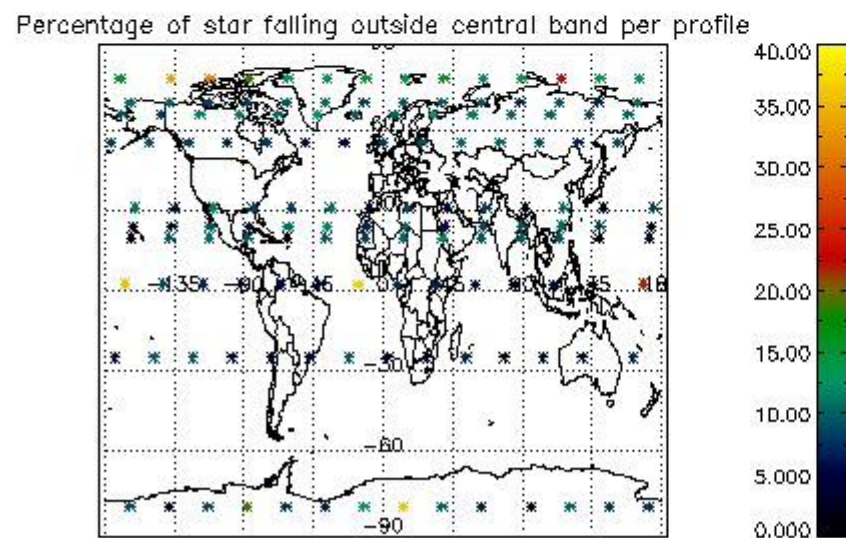
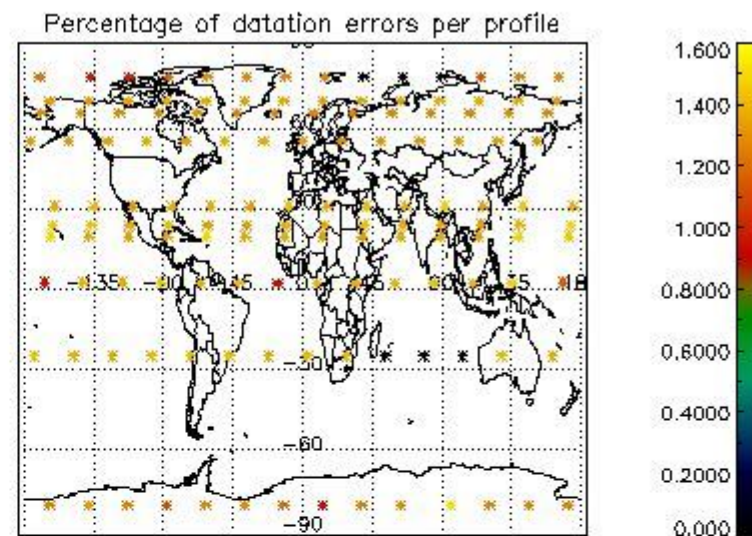
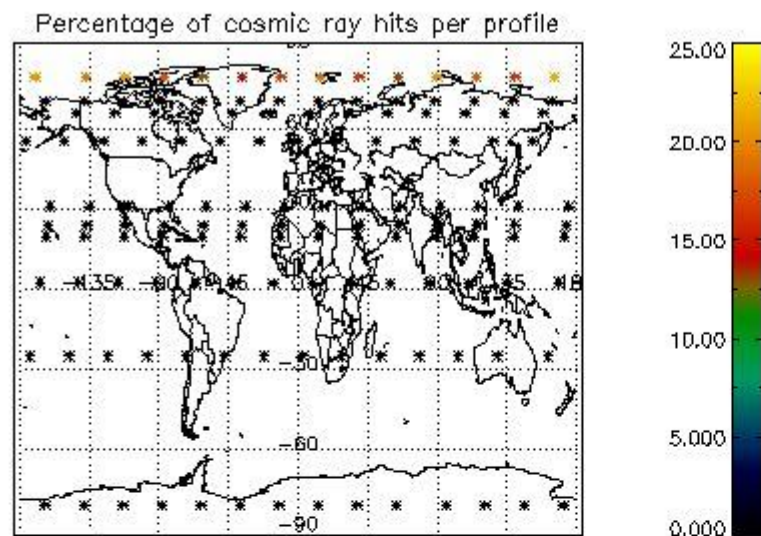


Percentage of saturation errors per profile



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





## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

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

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

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

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

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

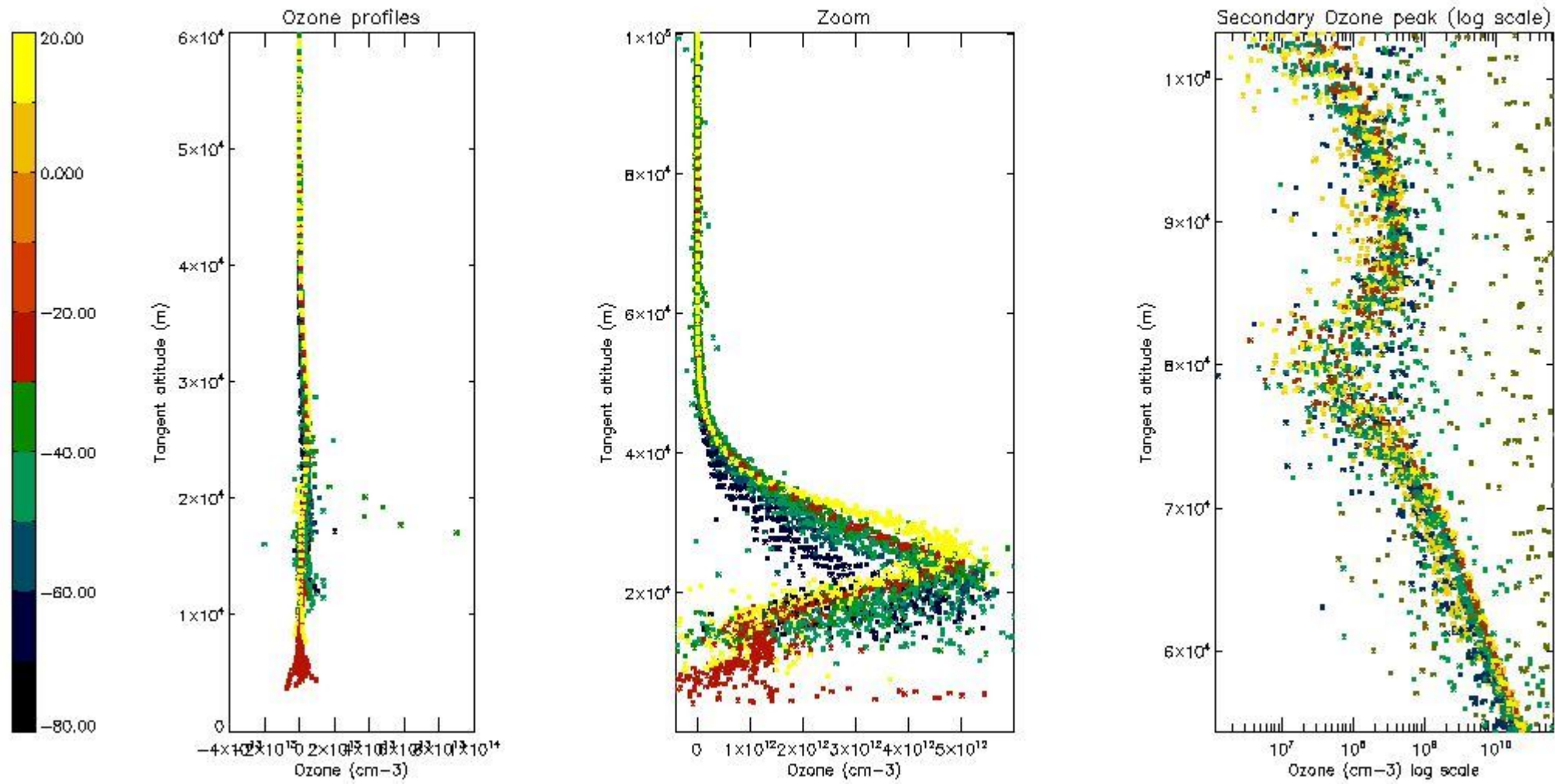
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	39
STD < 20	20

STD < 10	14
STD < 5	10

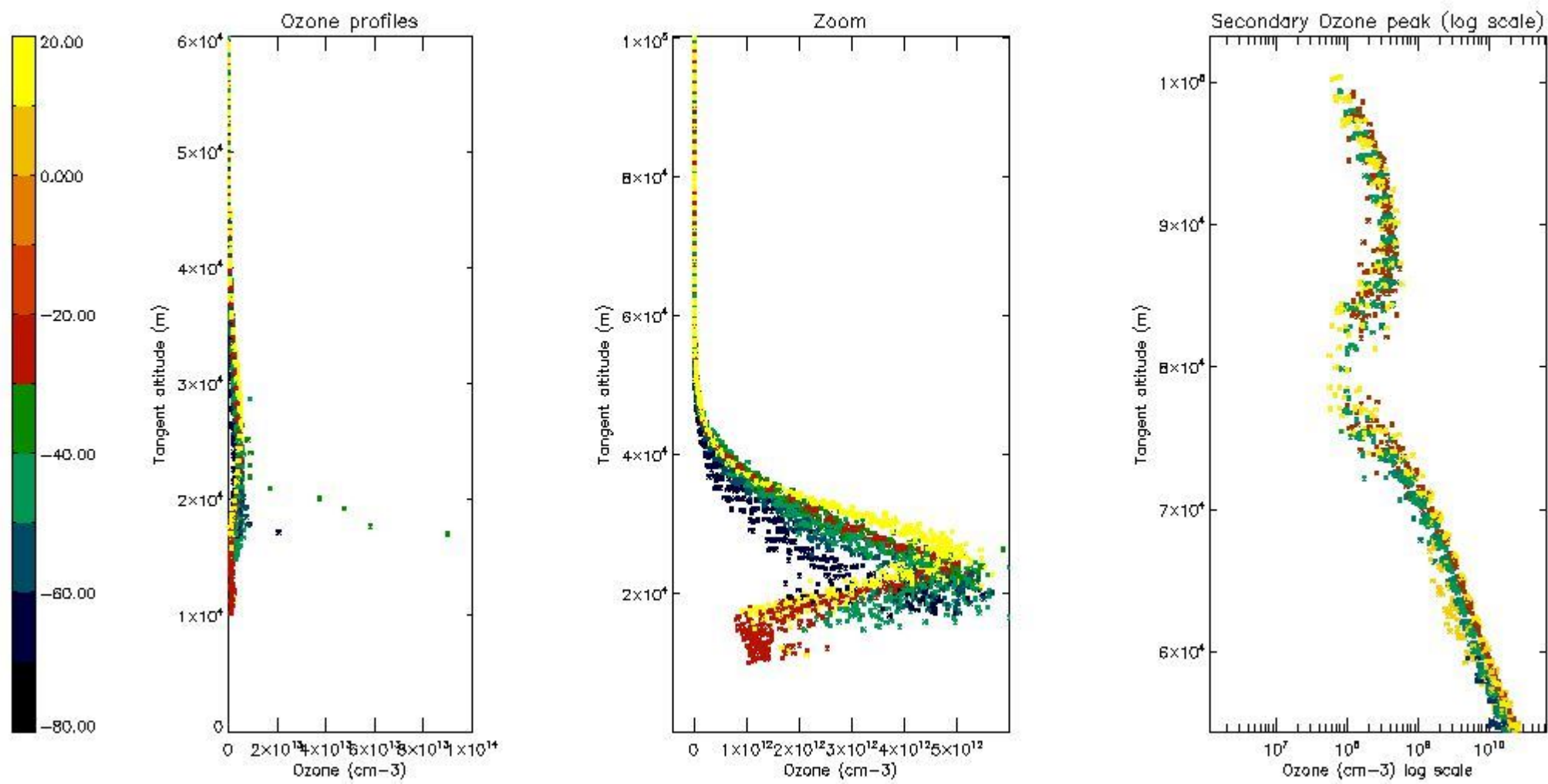
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



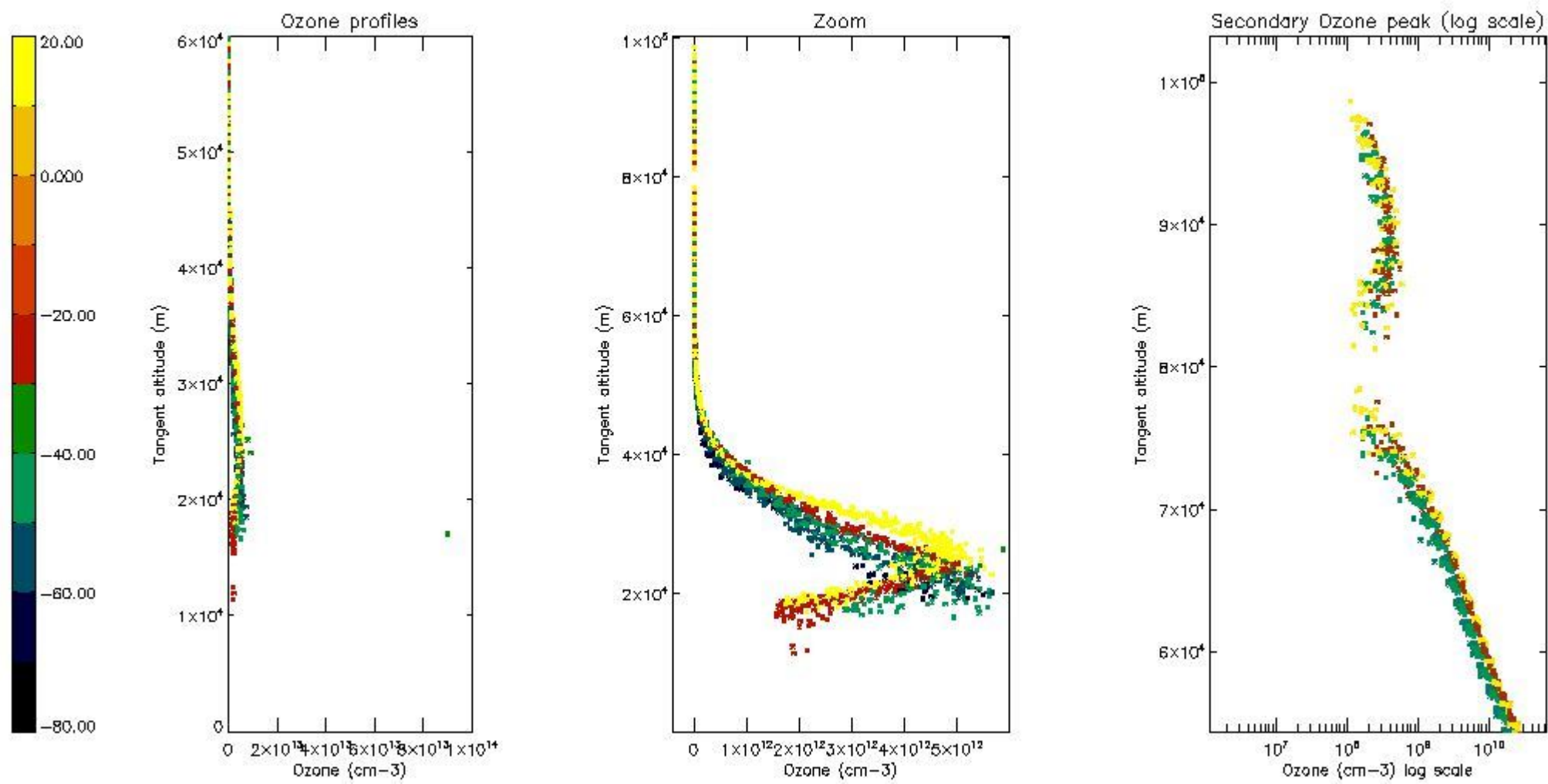
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



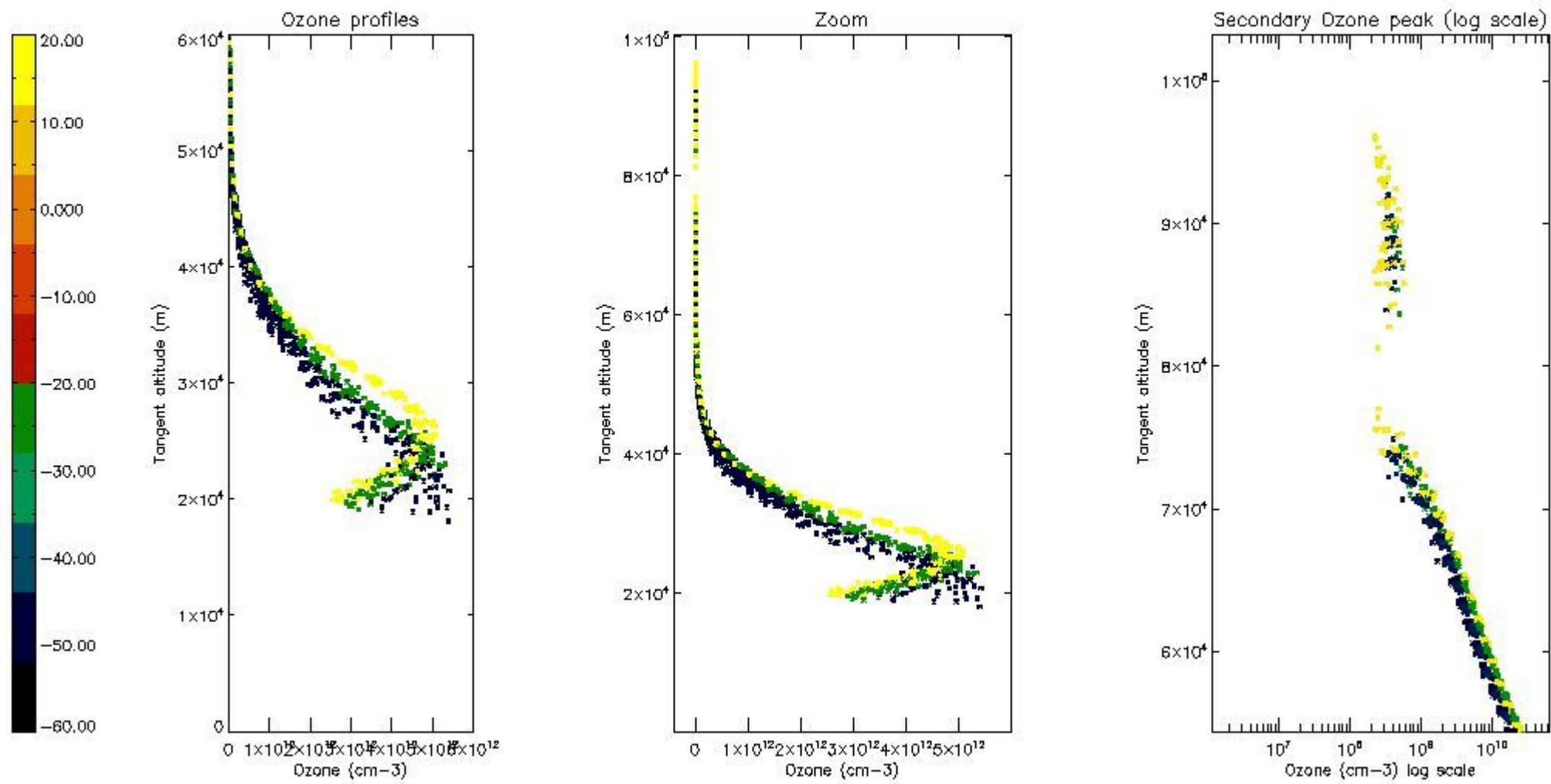
*5.4 Plot ozone profiles where  $STD < 10\%$  (dark without errors)*

The colorbar represents the latitude.



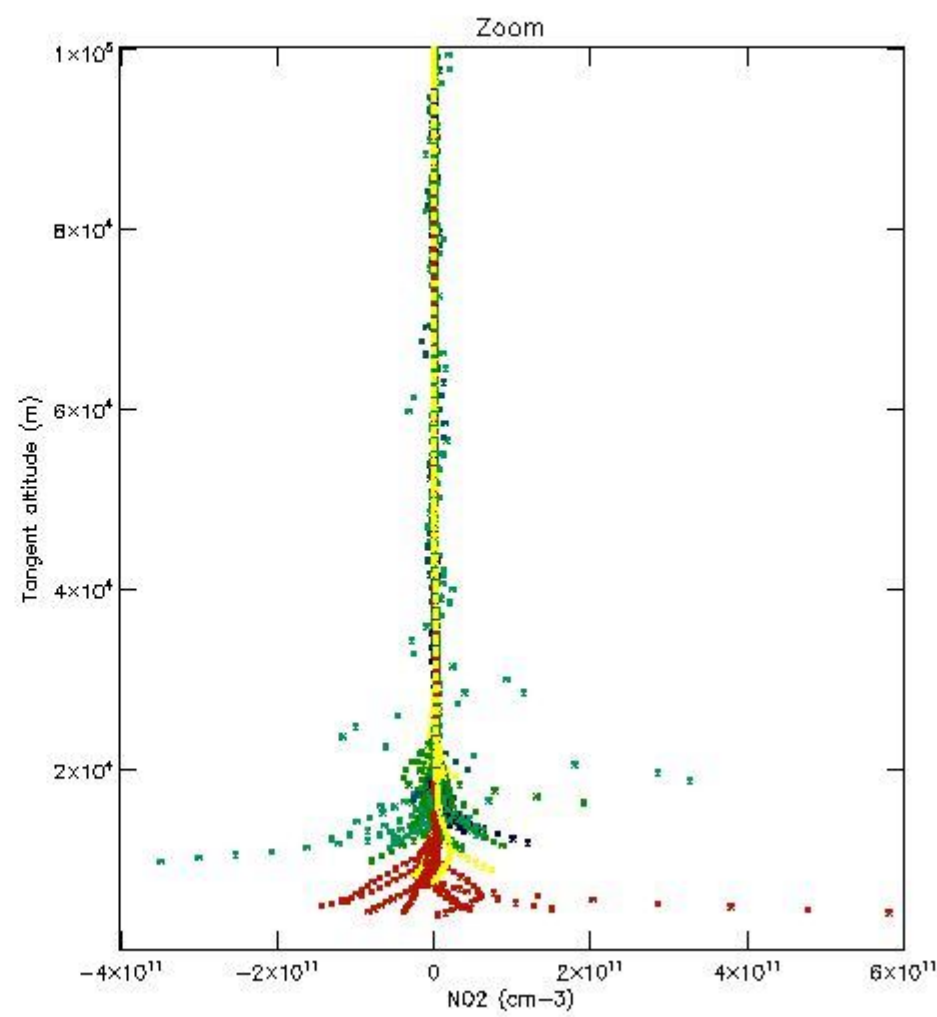
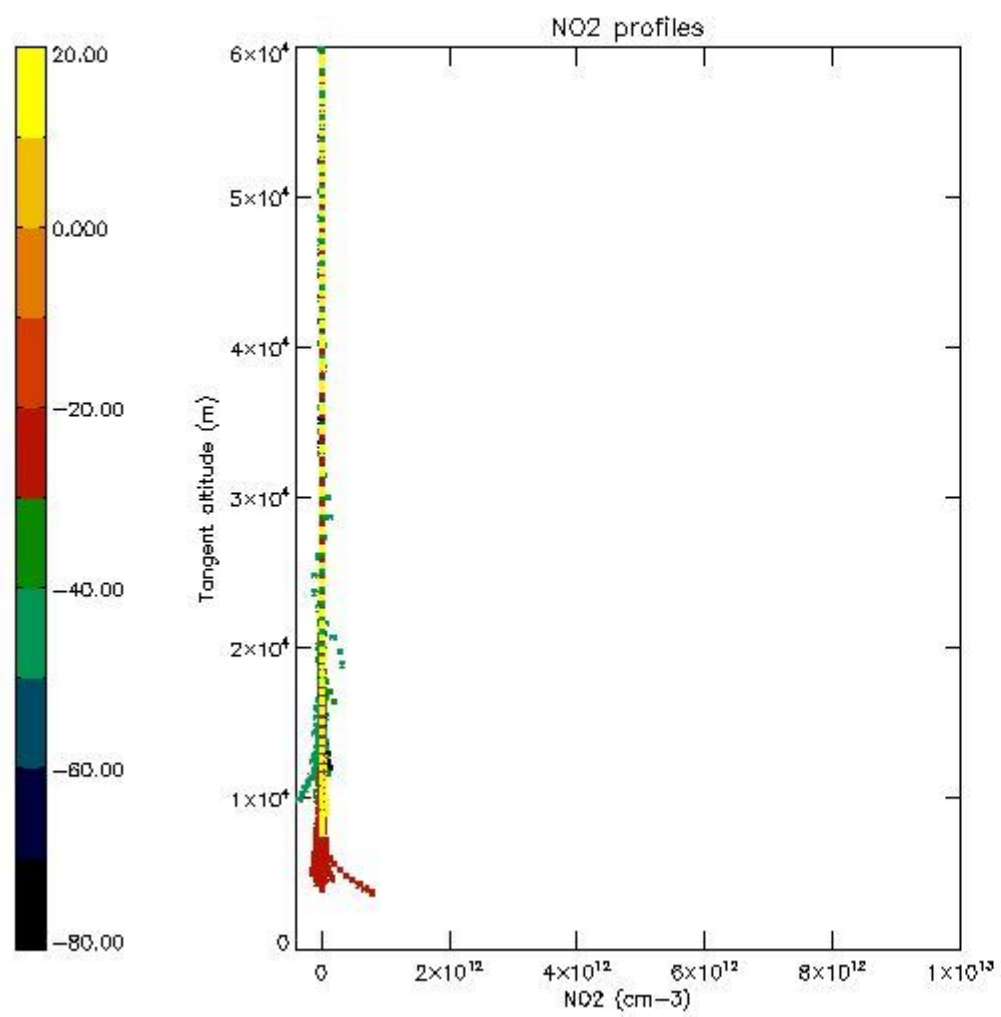
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



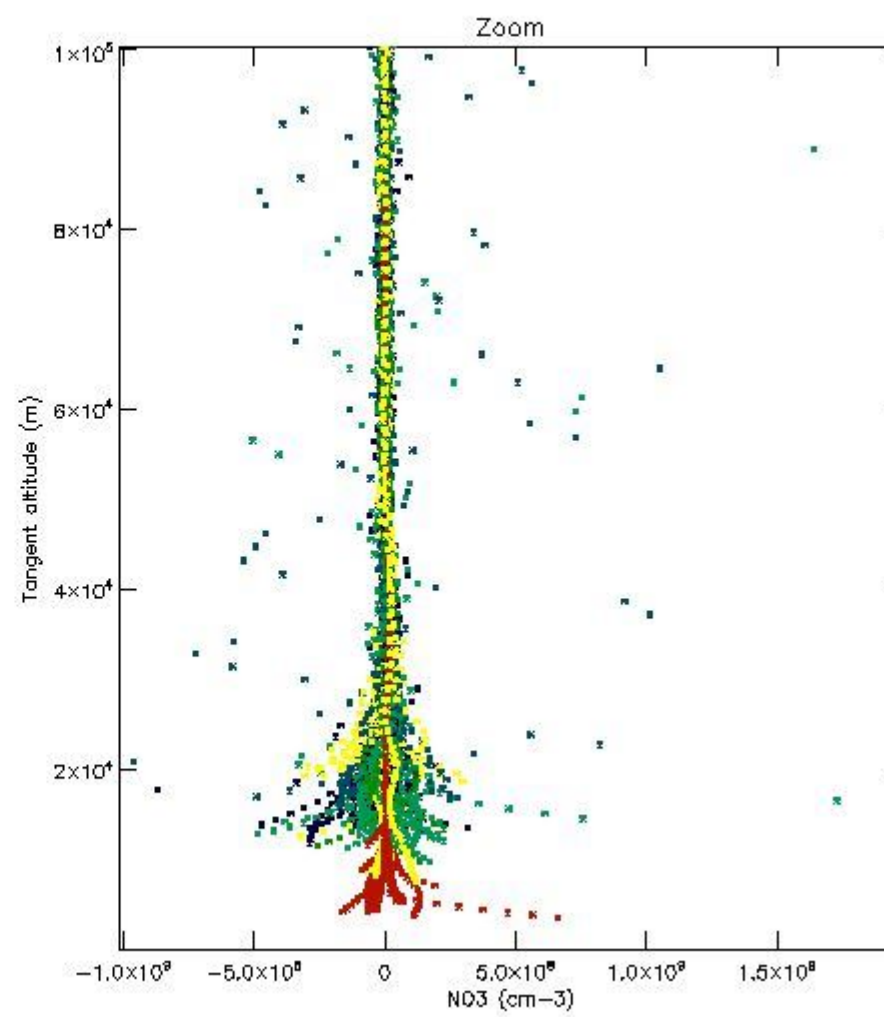
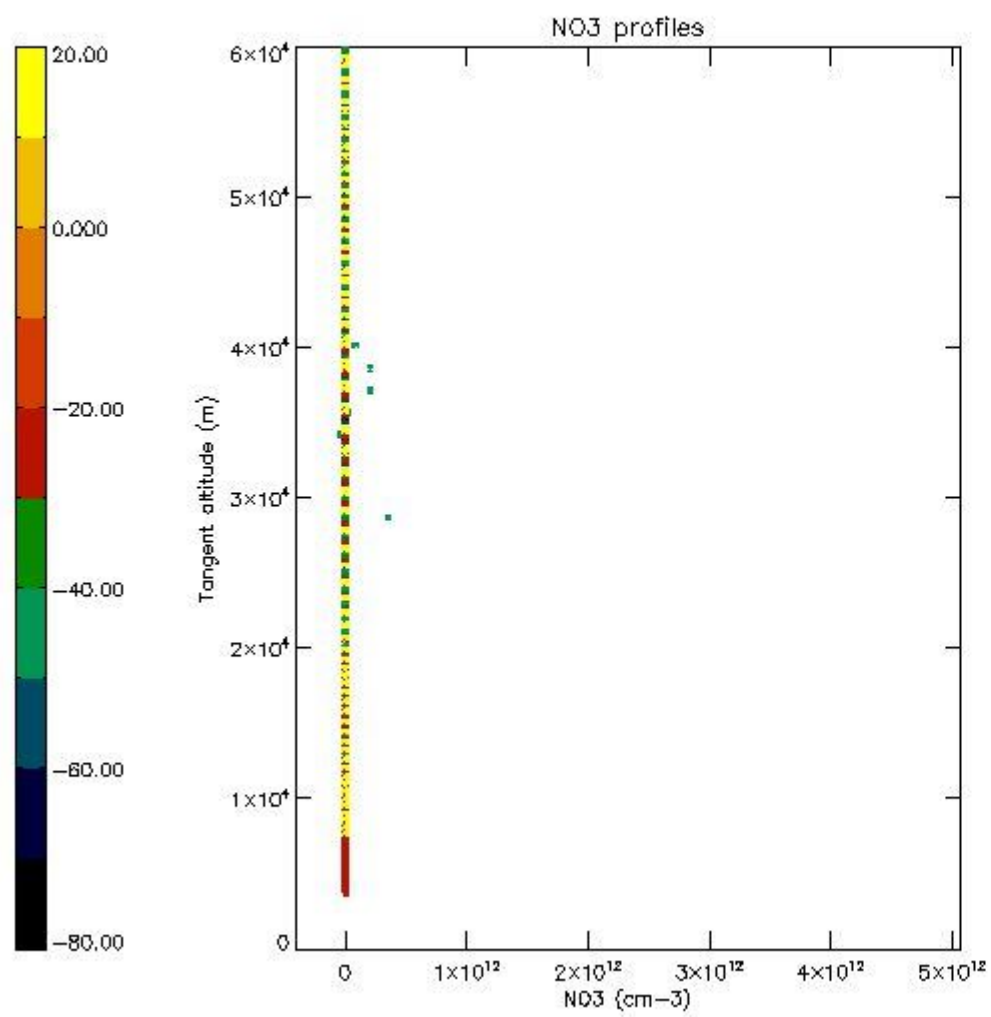
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



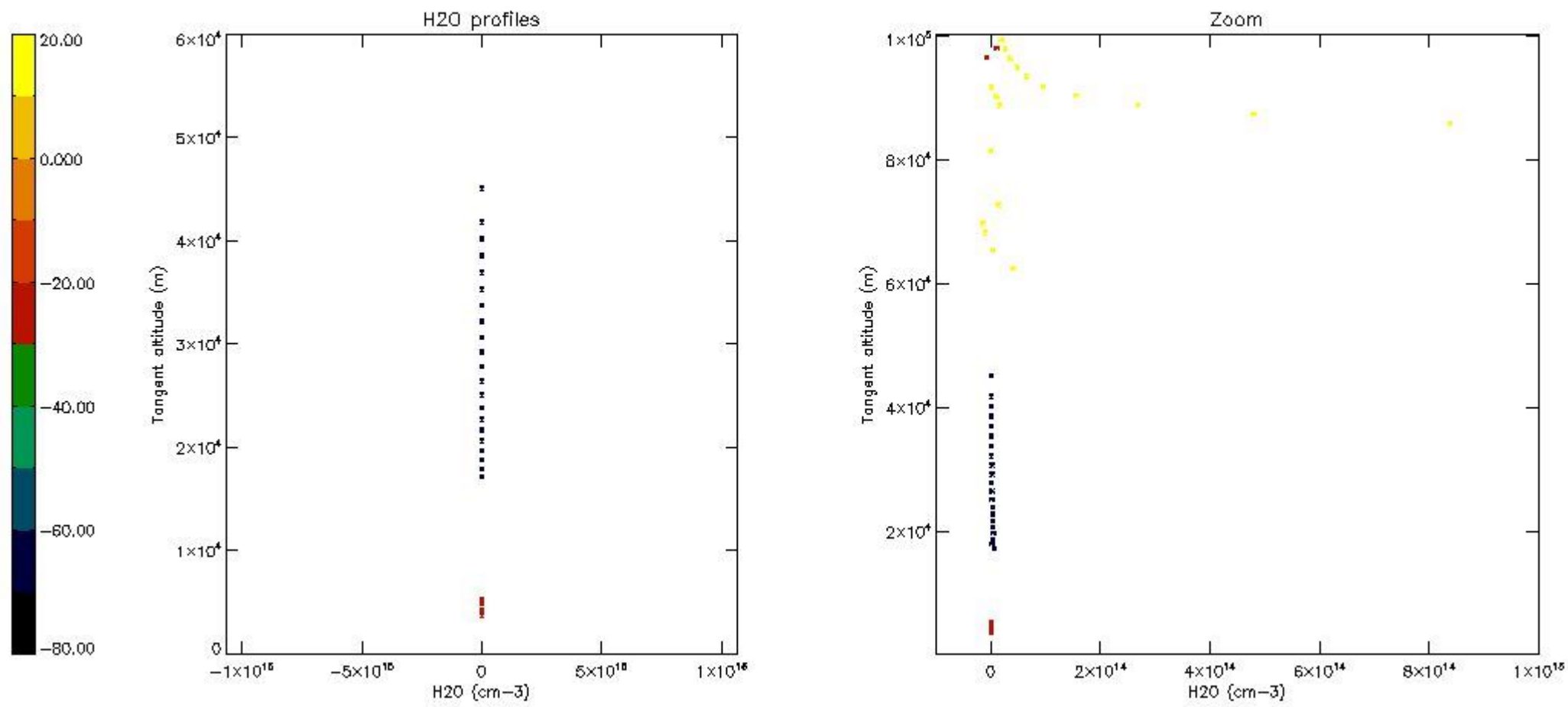
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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.

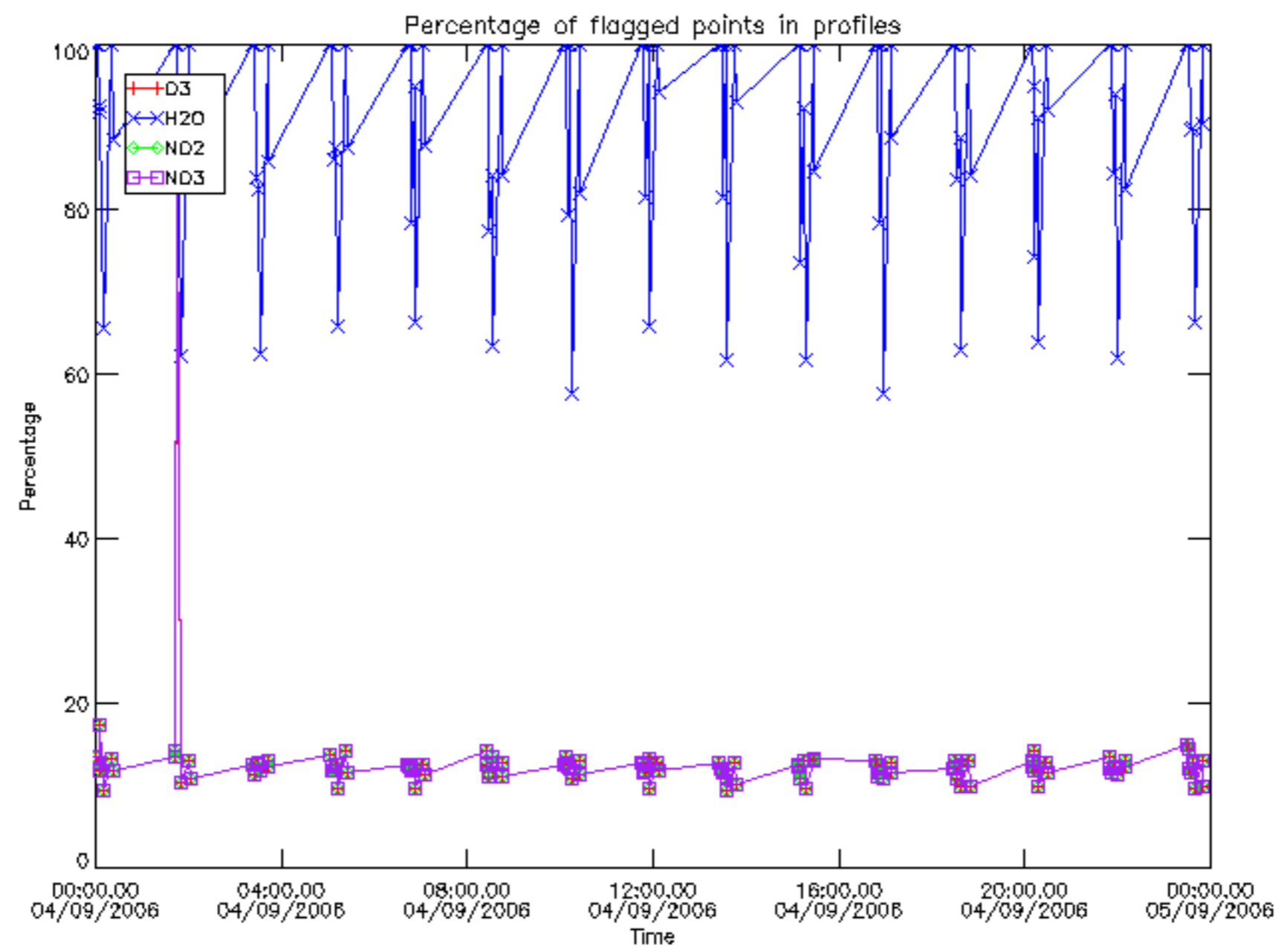


## 6. Auxiliary Data Files used for the production reported in section 2

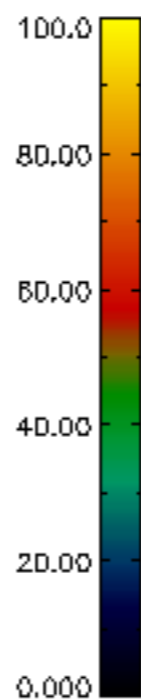
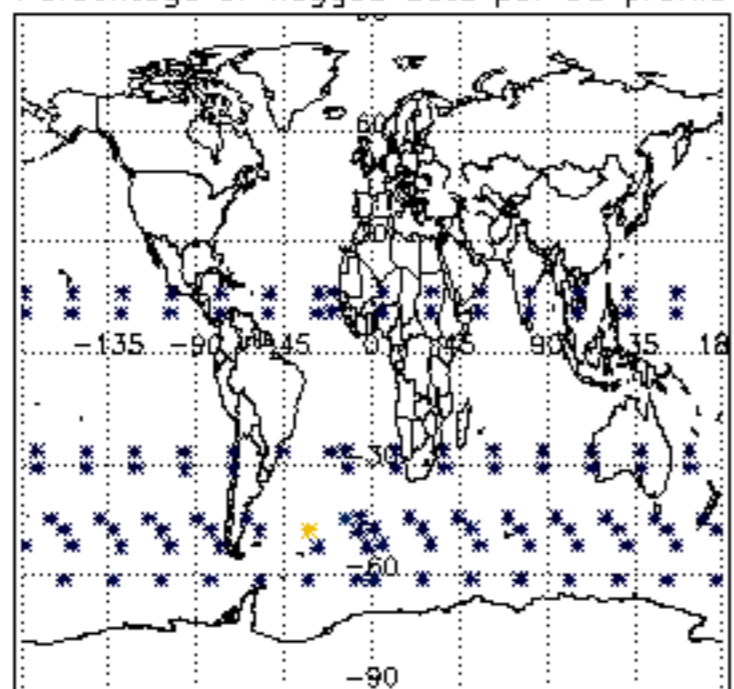
The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	04-SEP-2006 00:00:57
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	04-SEP-2006 00:00:57
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	04-SEP-2006 00:00:57

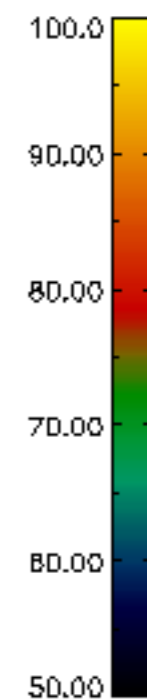
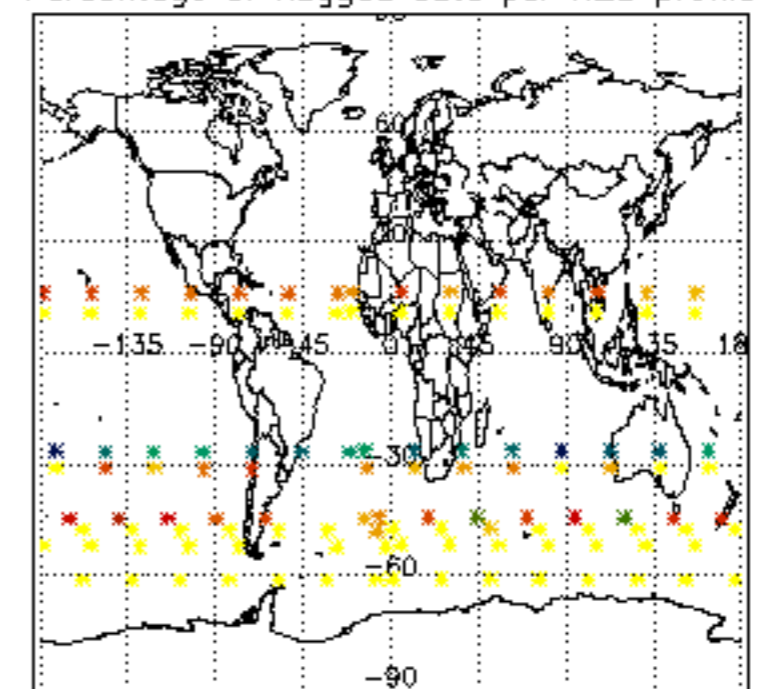




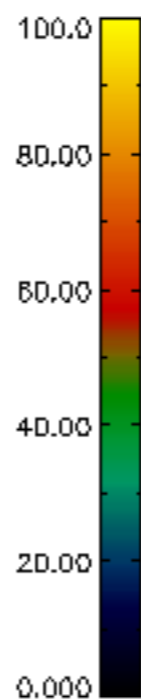
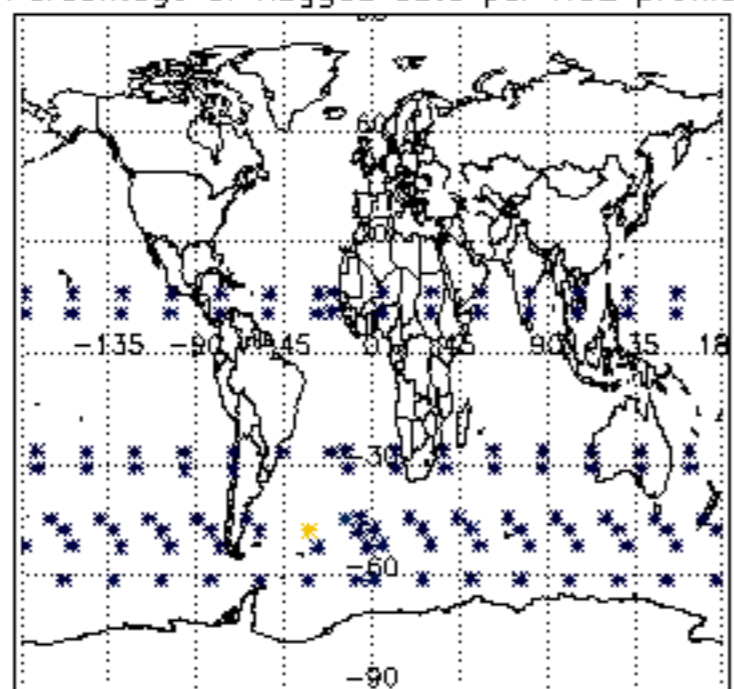
Percentage of flagged data per D3 profile



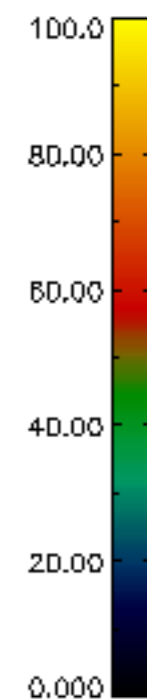
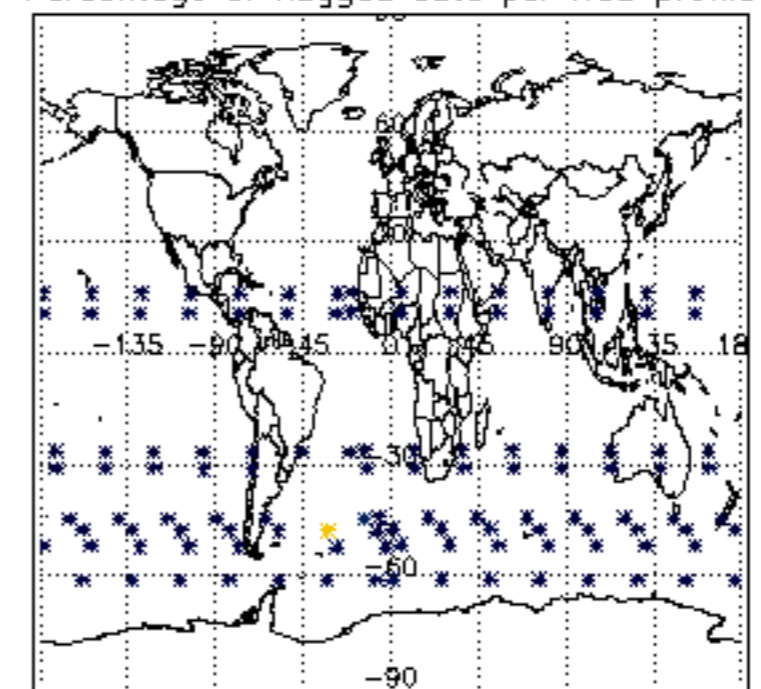
Percentage of flagged data per H2O profile

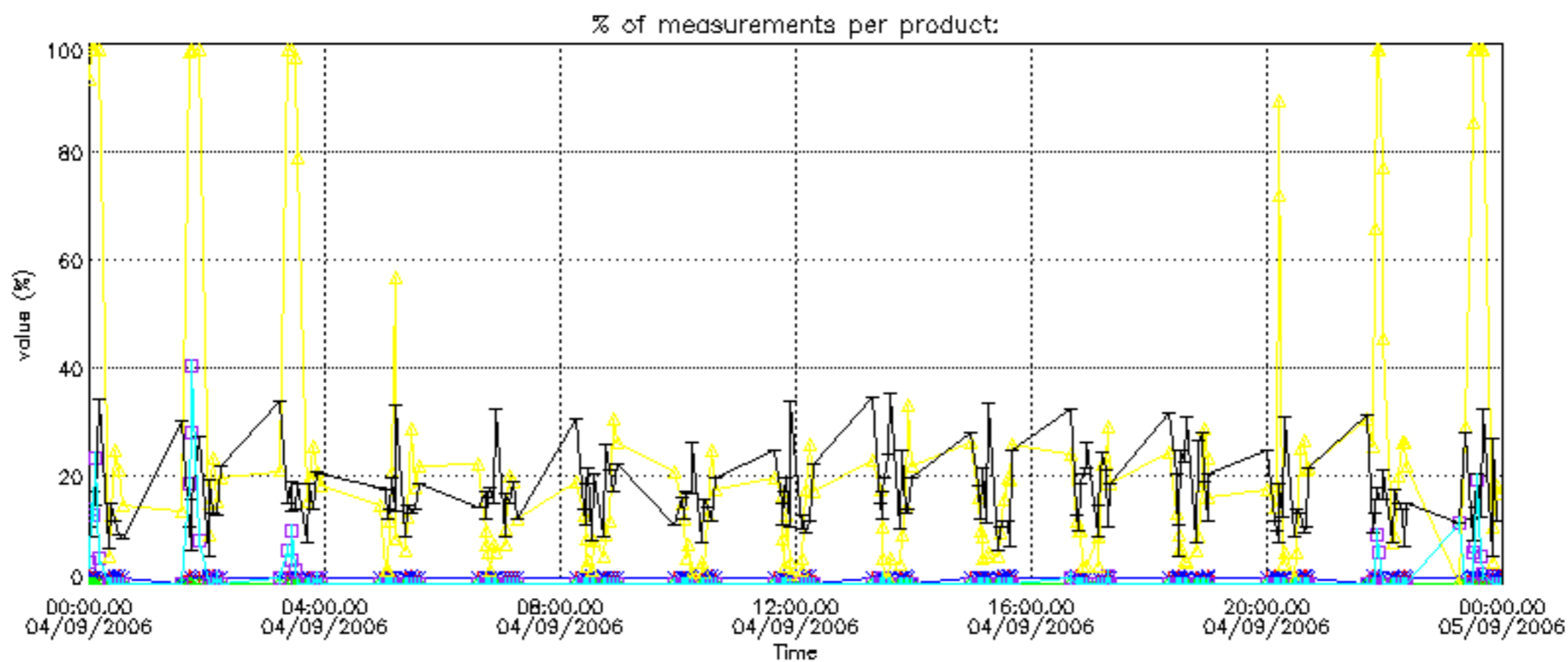


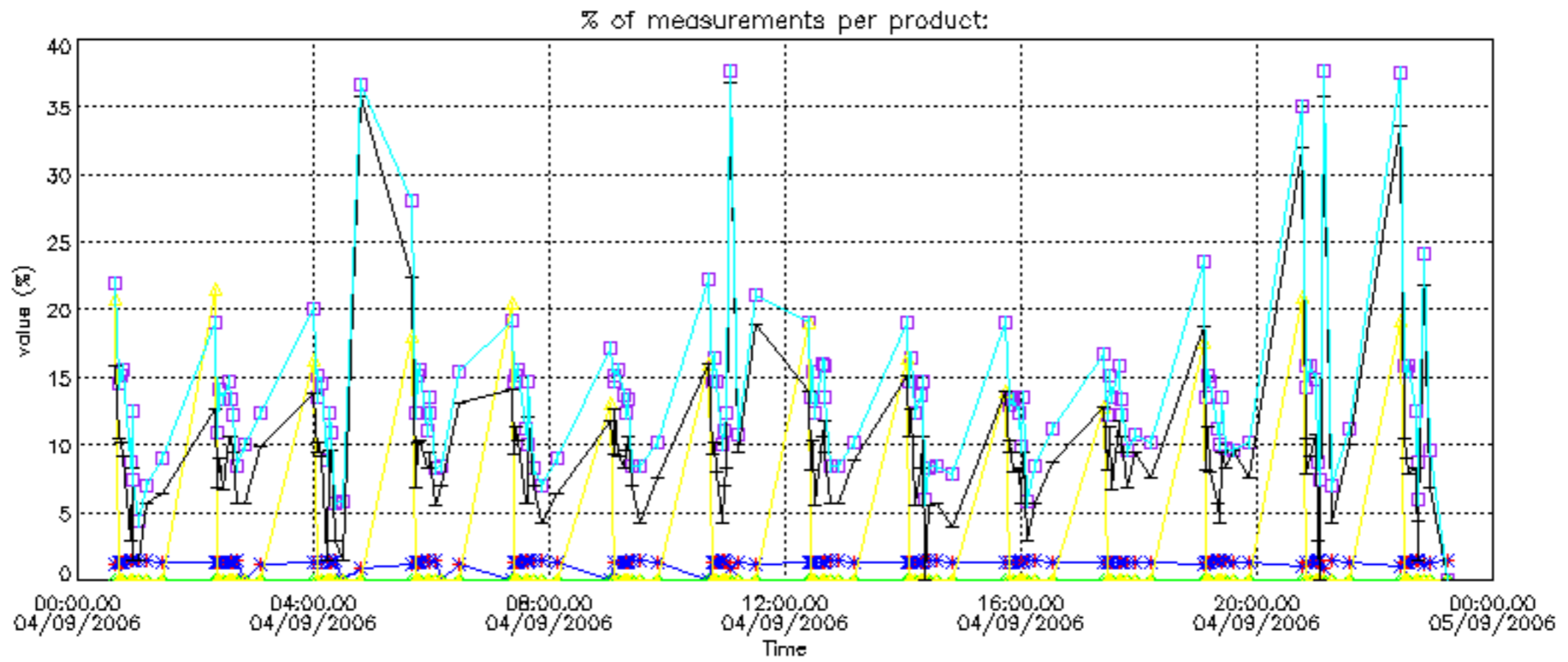
Percentage of flagged data per NO2 profile



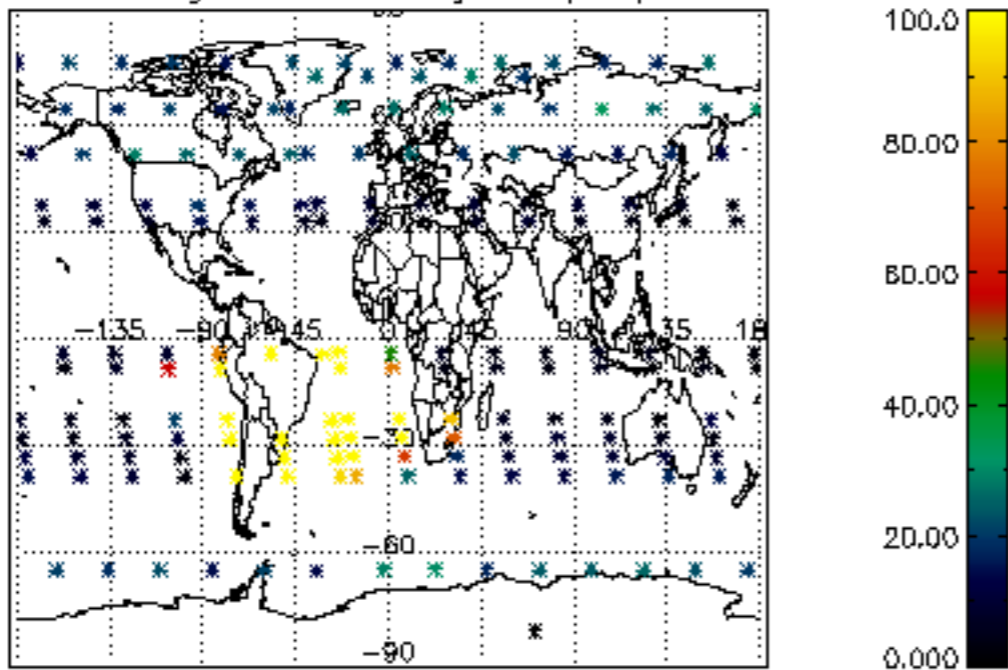
Percentage of flagged data per NO3 profile



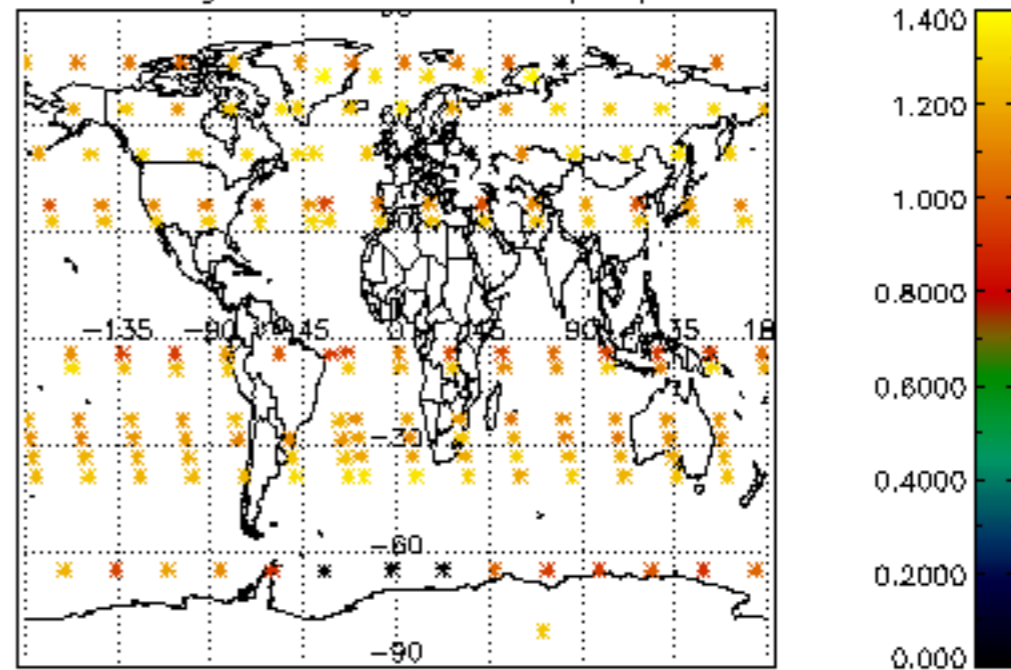




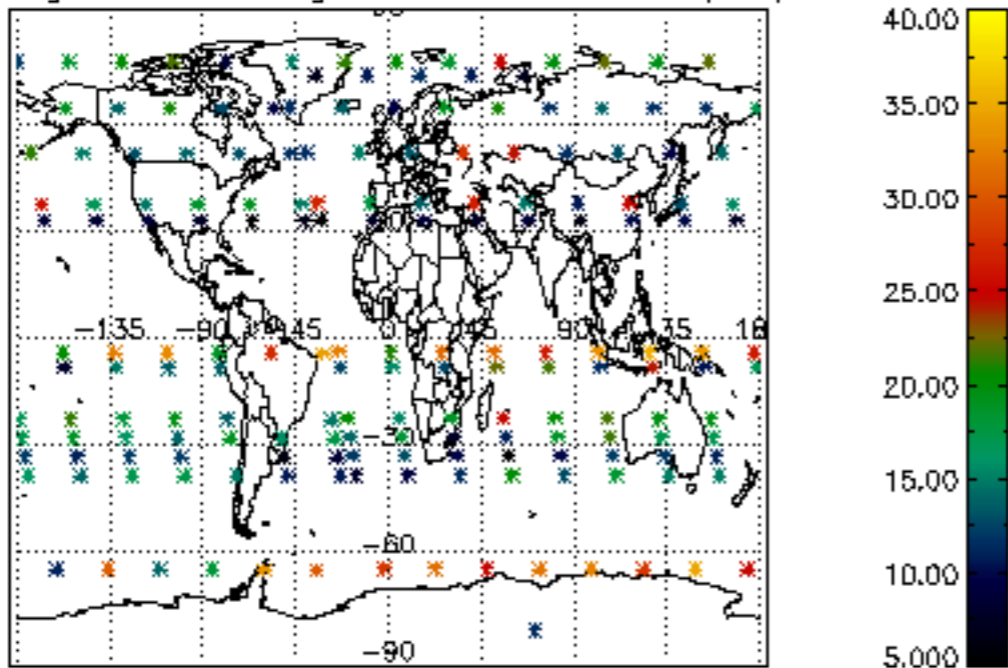
Percentage of cosmic ray hits per profile



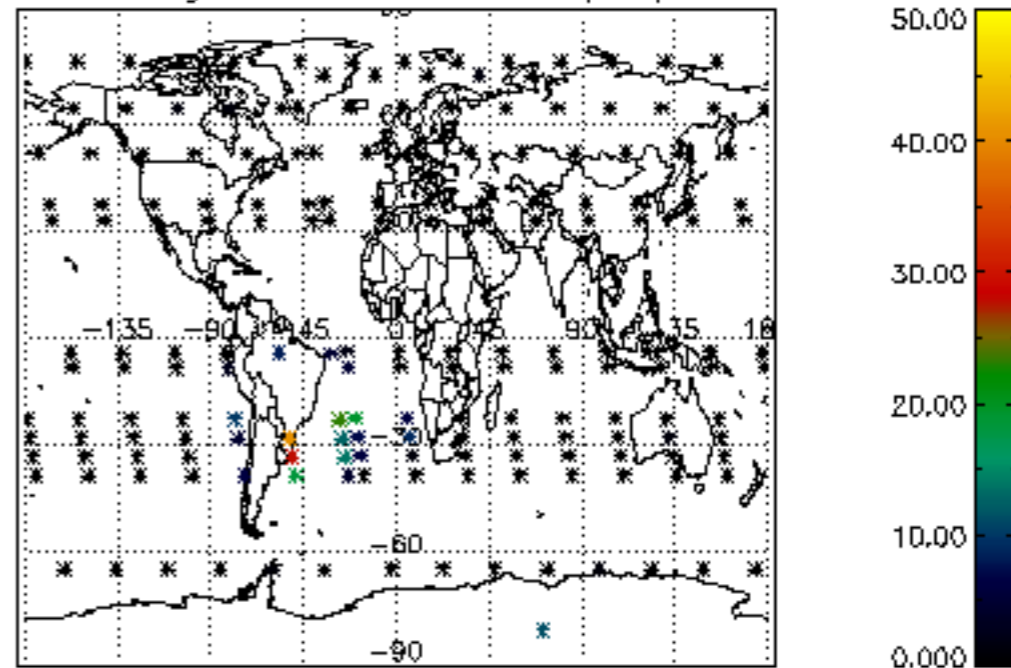
Percentage of datation errors per profile



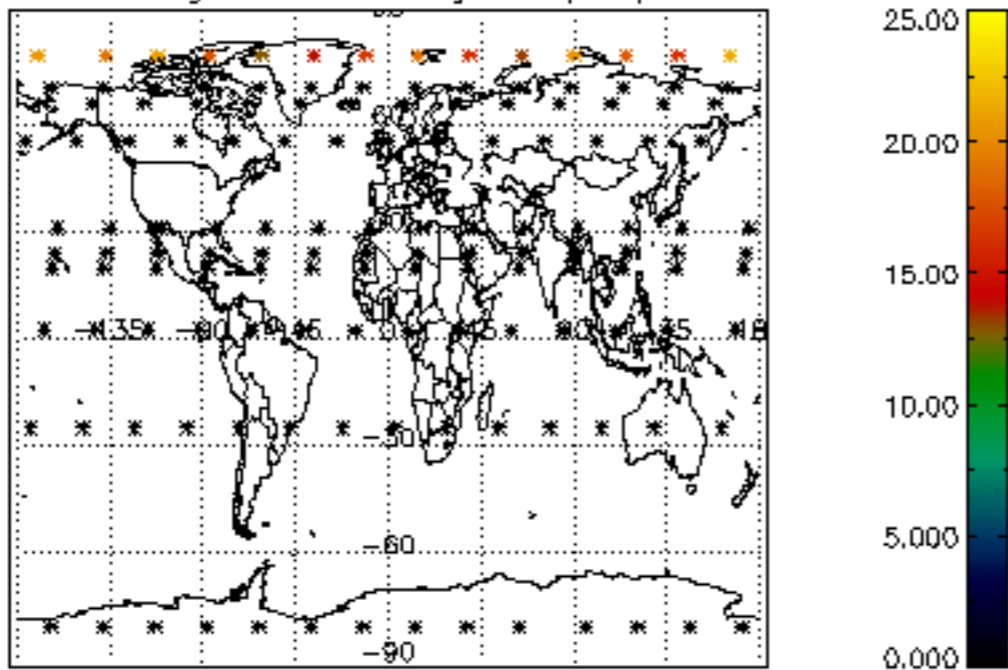
Percentage of star falling outside central band per profile



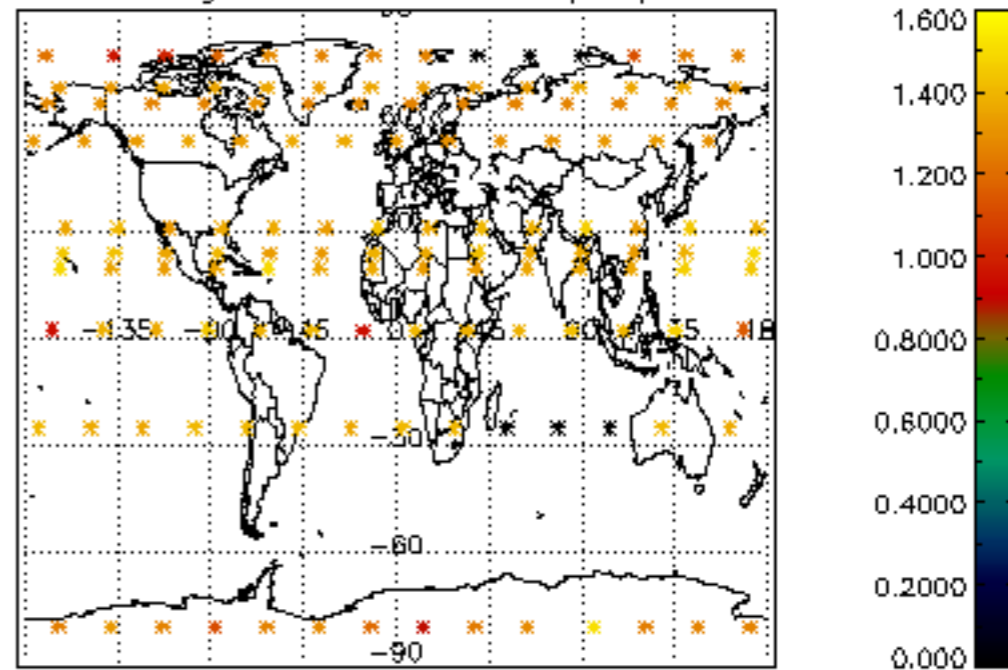
Percentage of saturation errors per profile



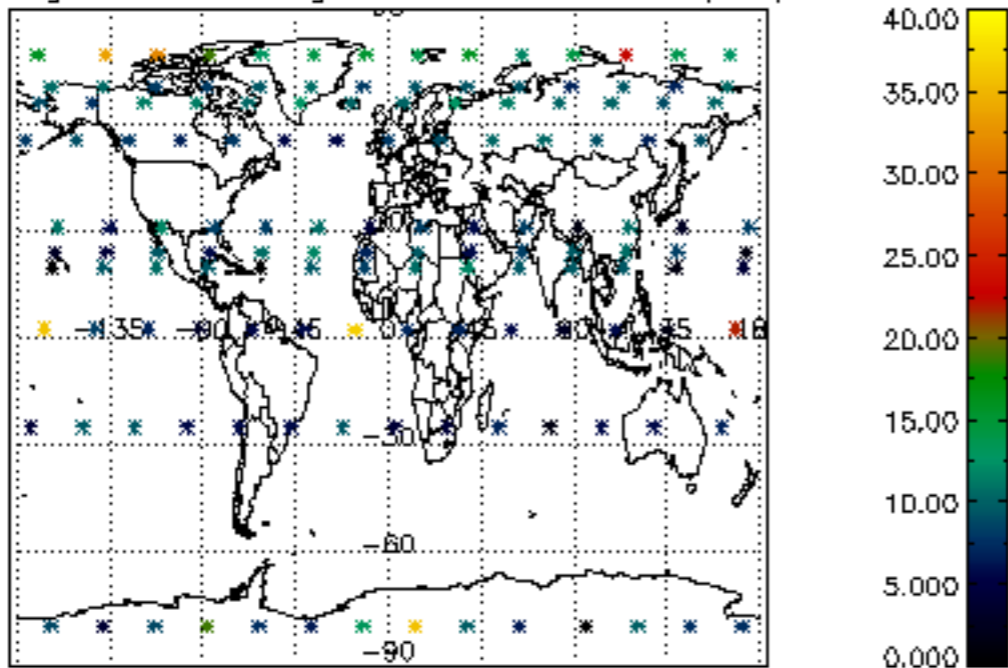
Percentage of cosmic ray hits per profile



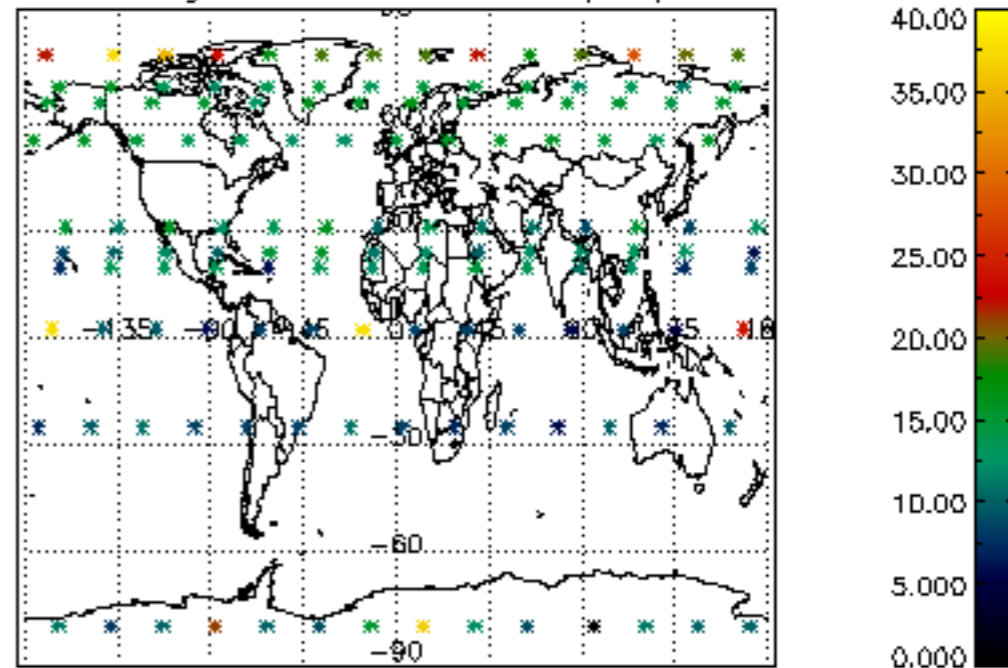
Percentage of datation errors per profile

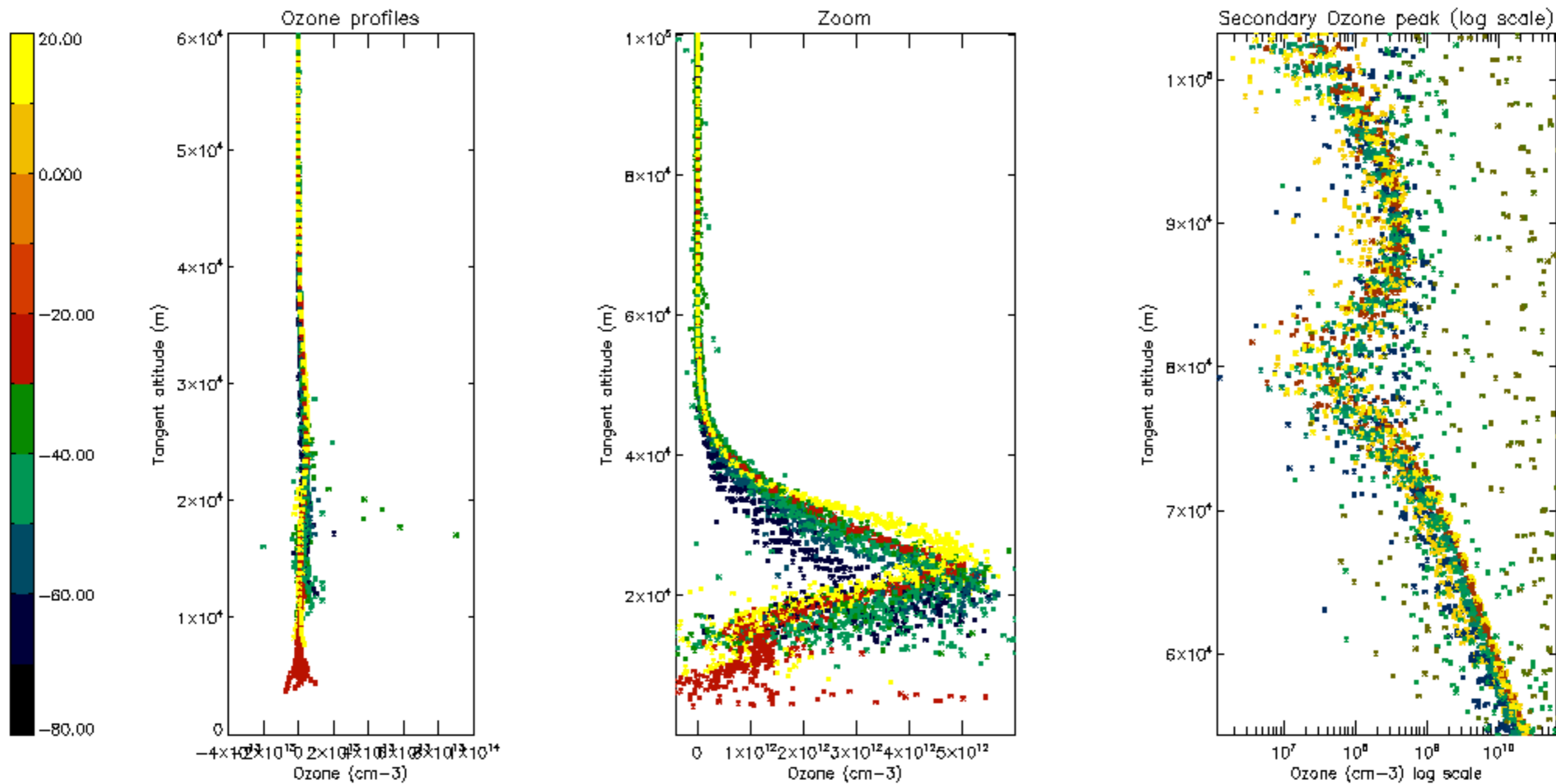


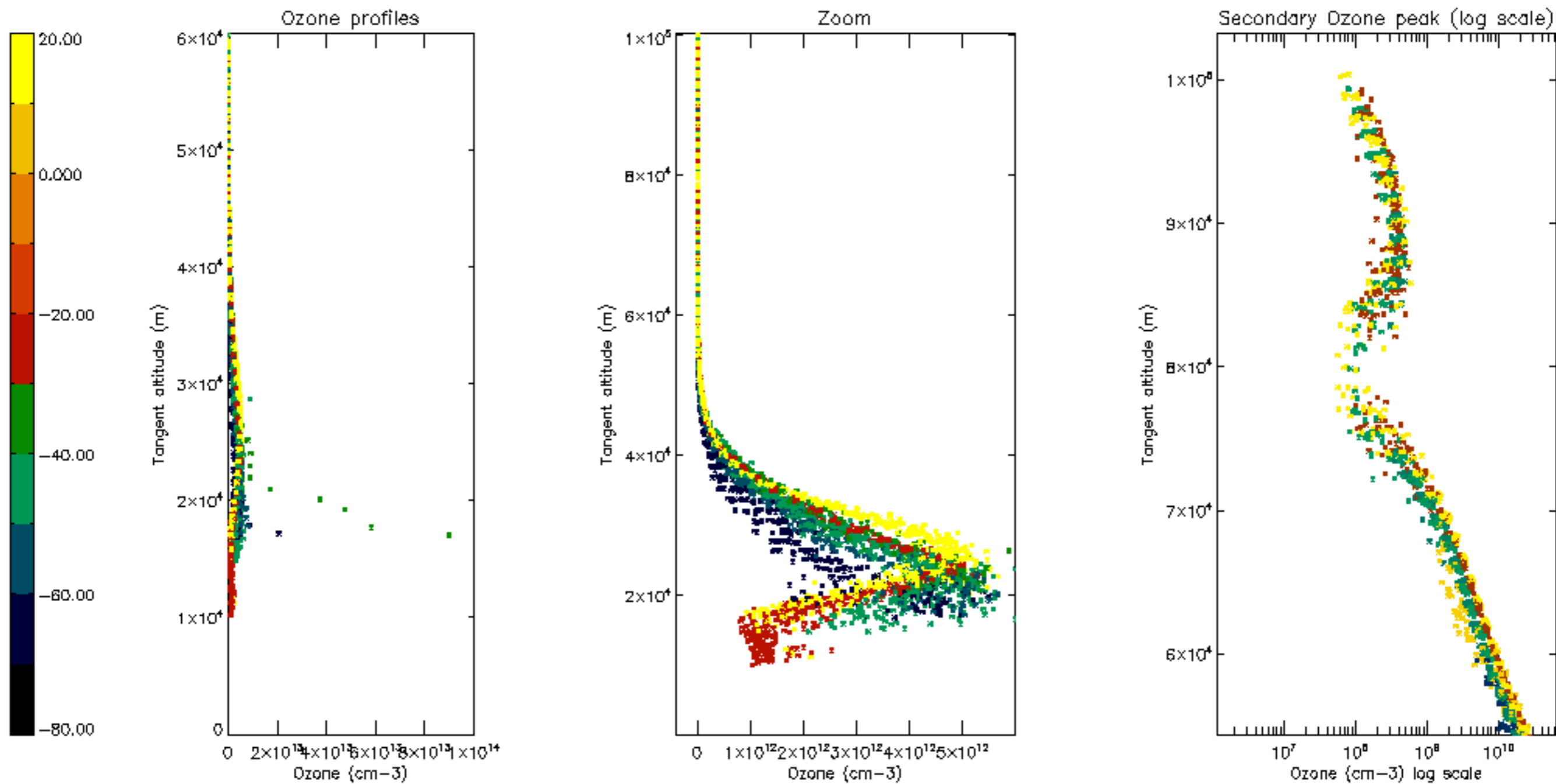
Percentage of star falling outside central band per profile



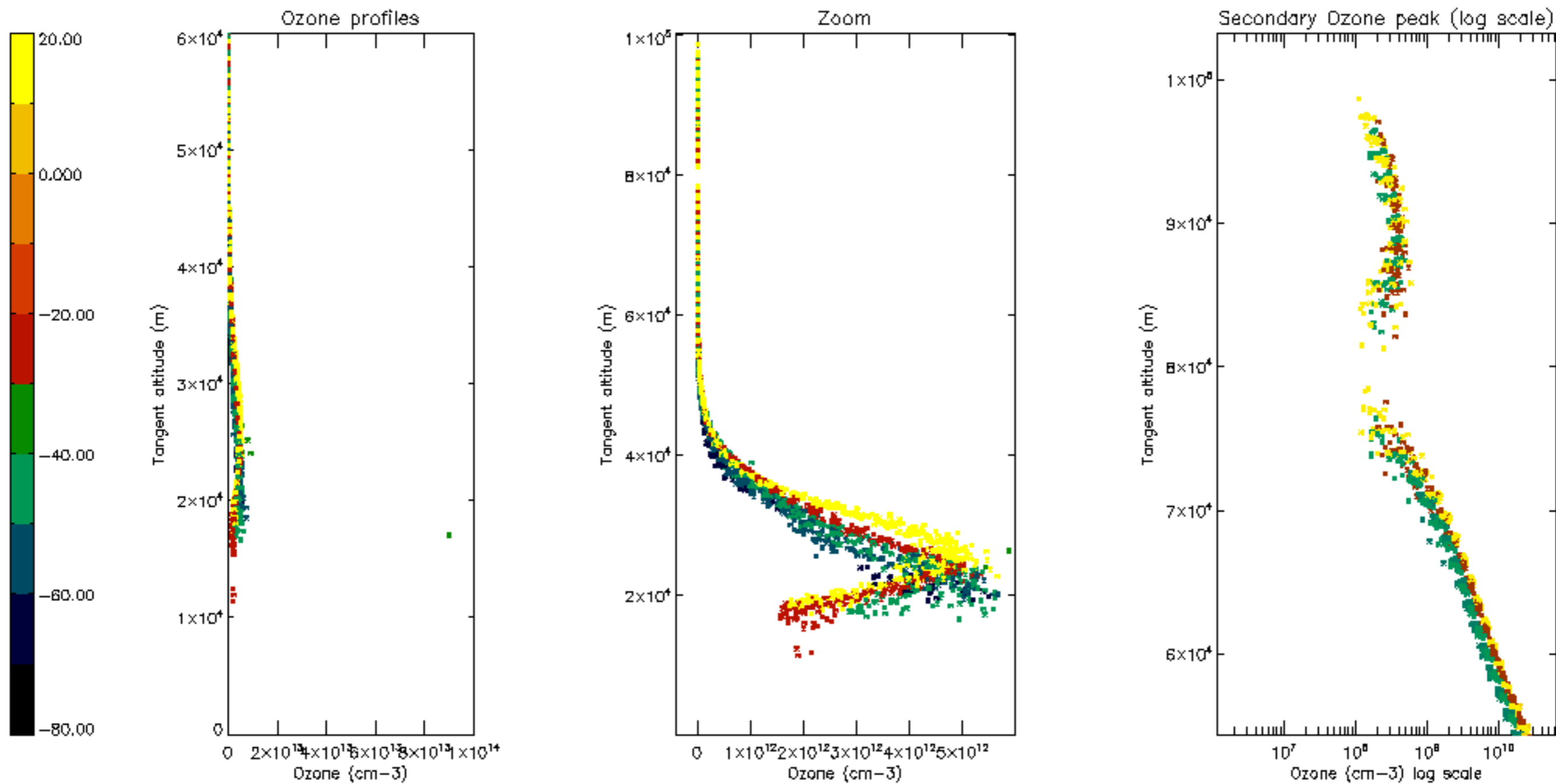
Percentage of saturation errors per profile

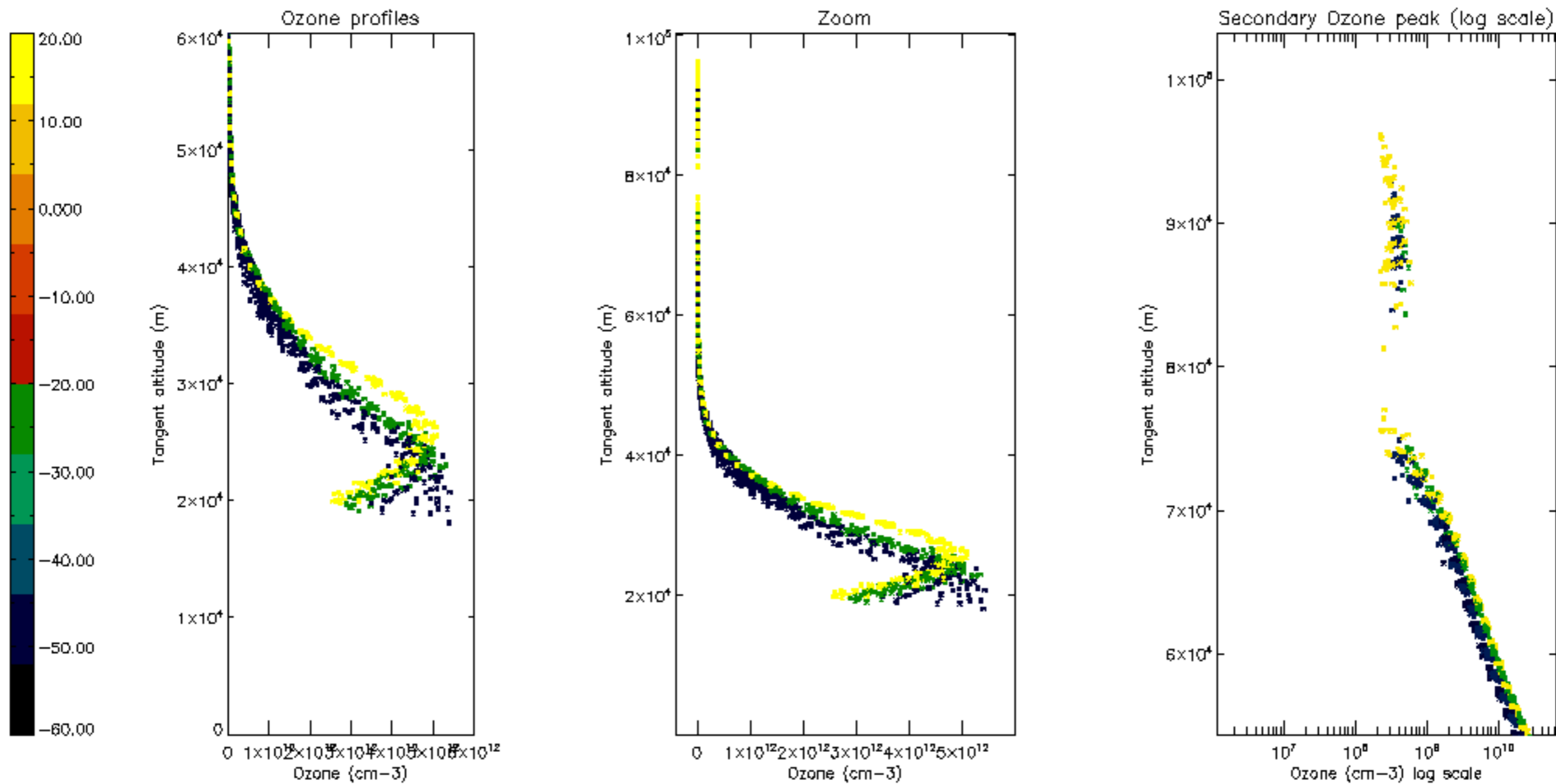


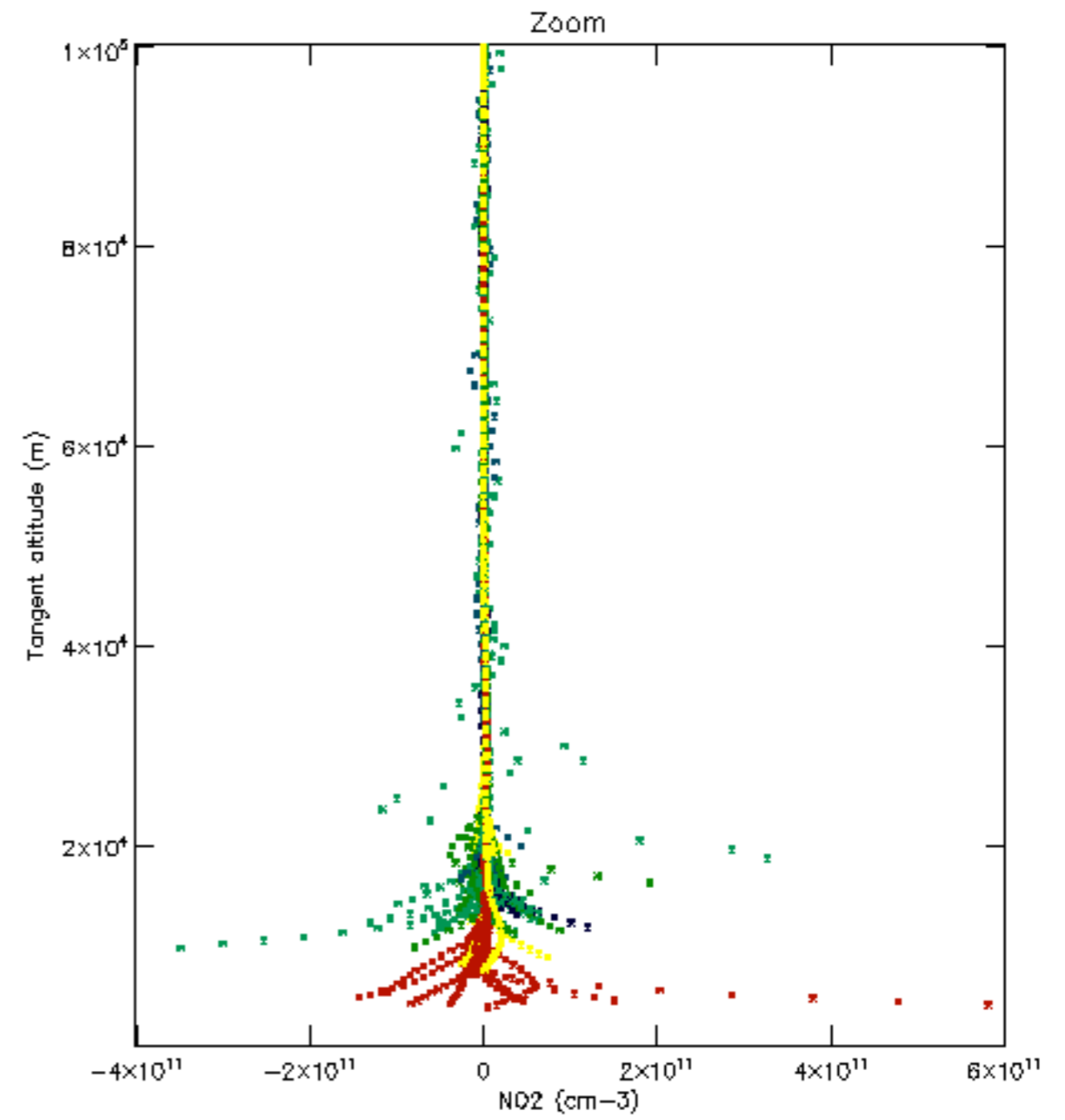
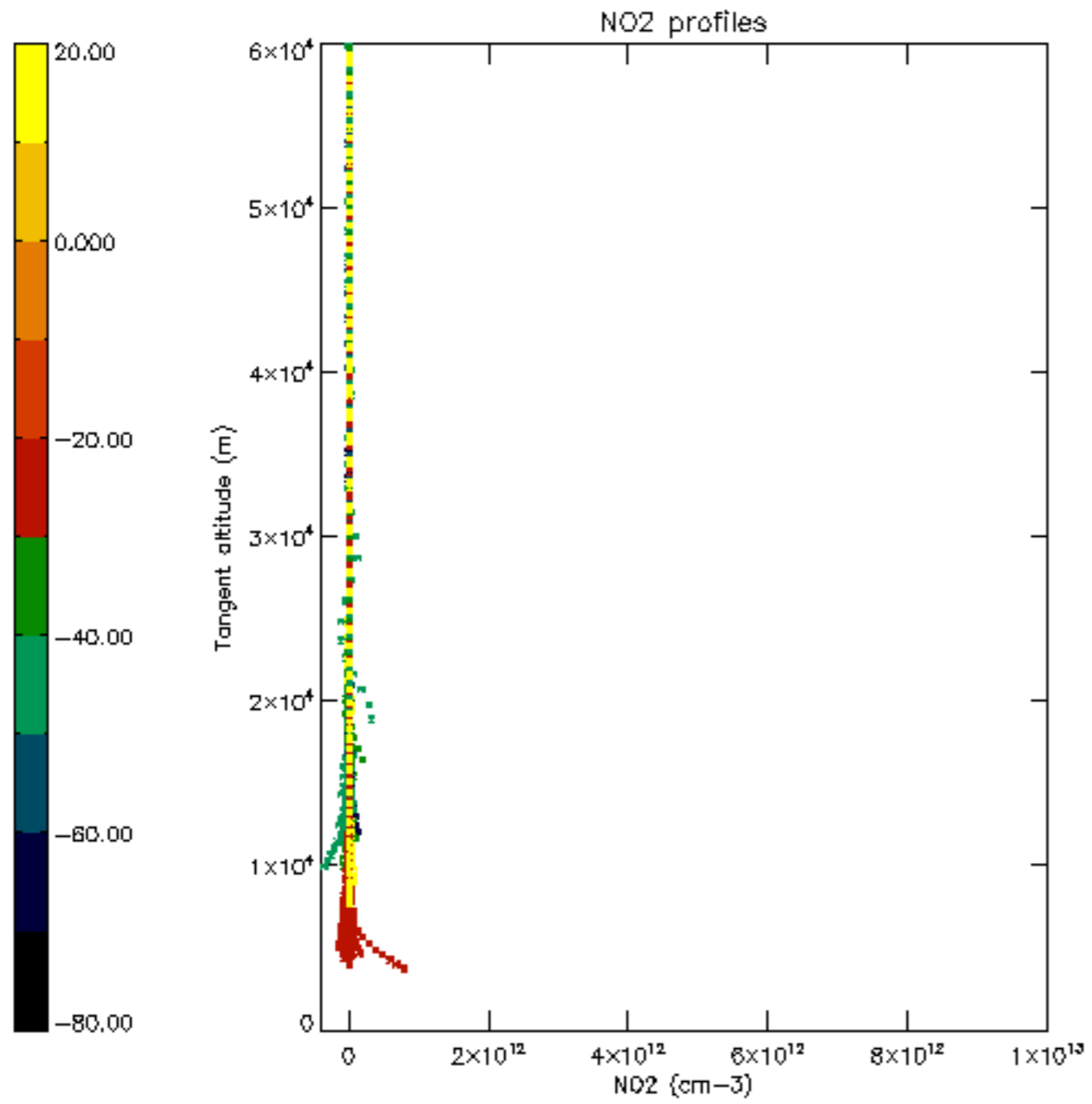


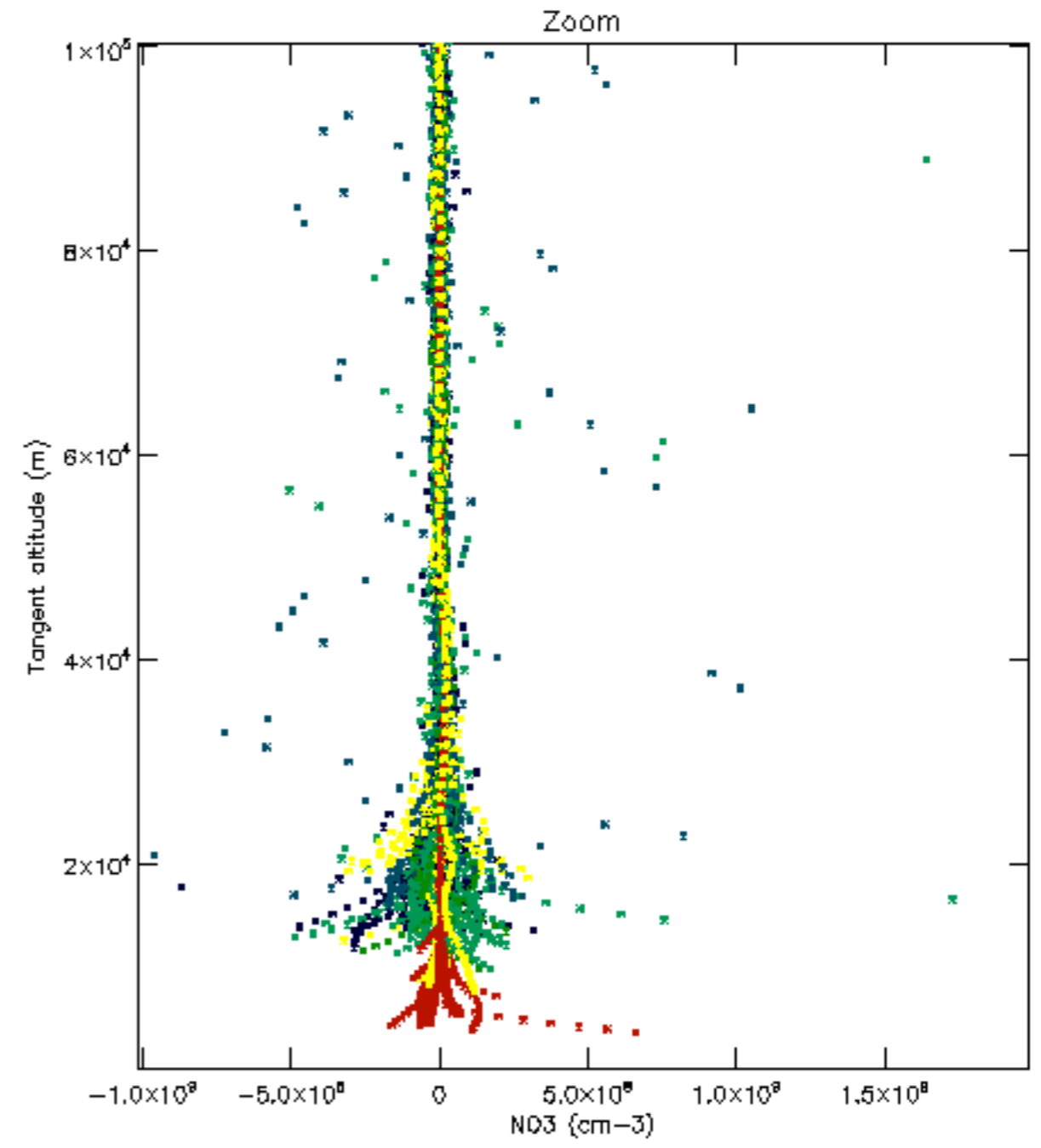
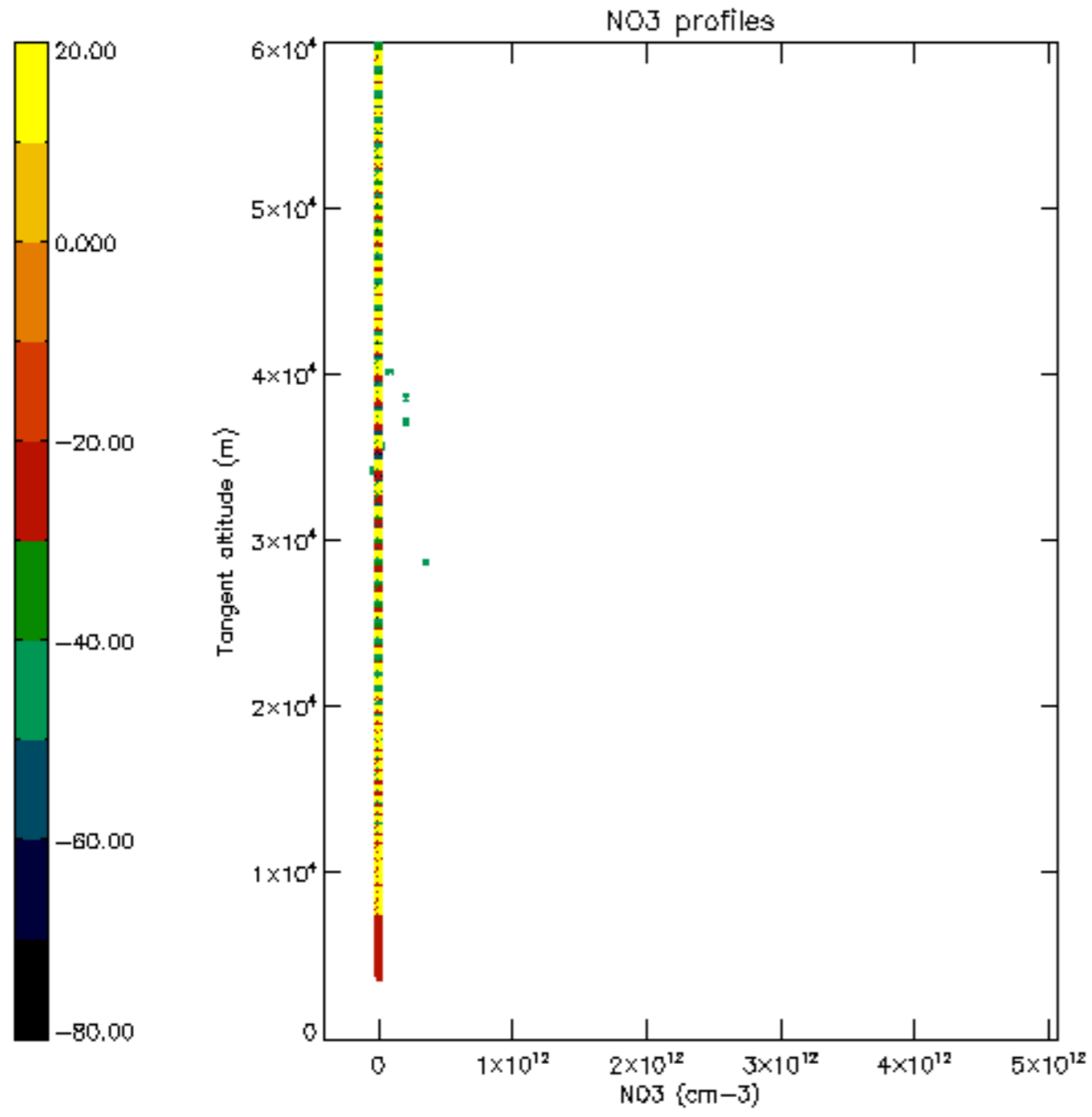


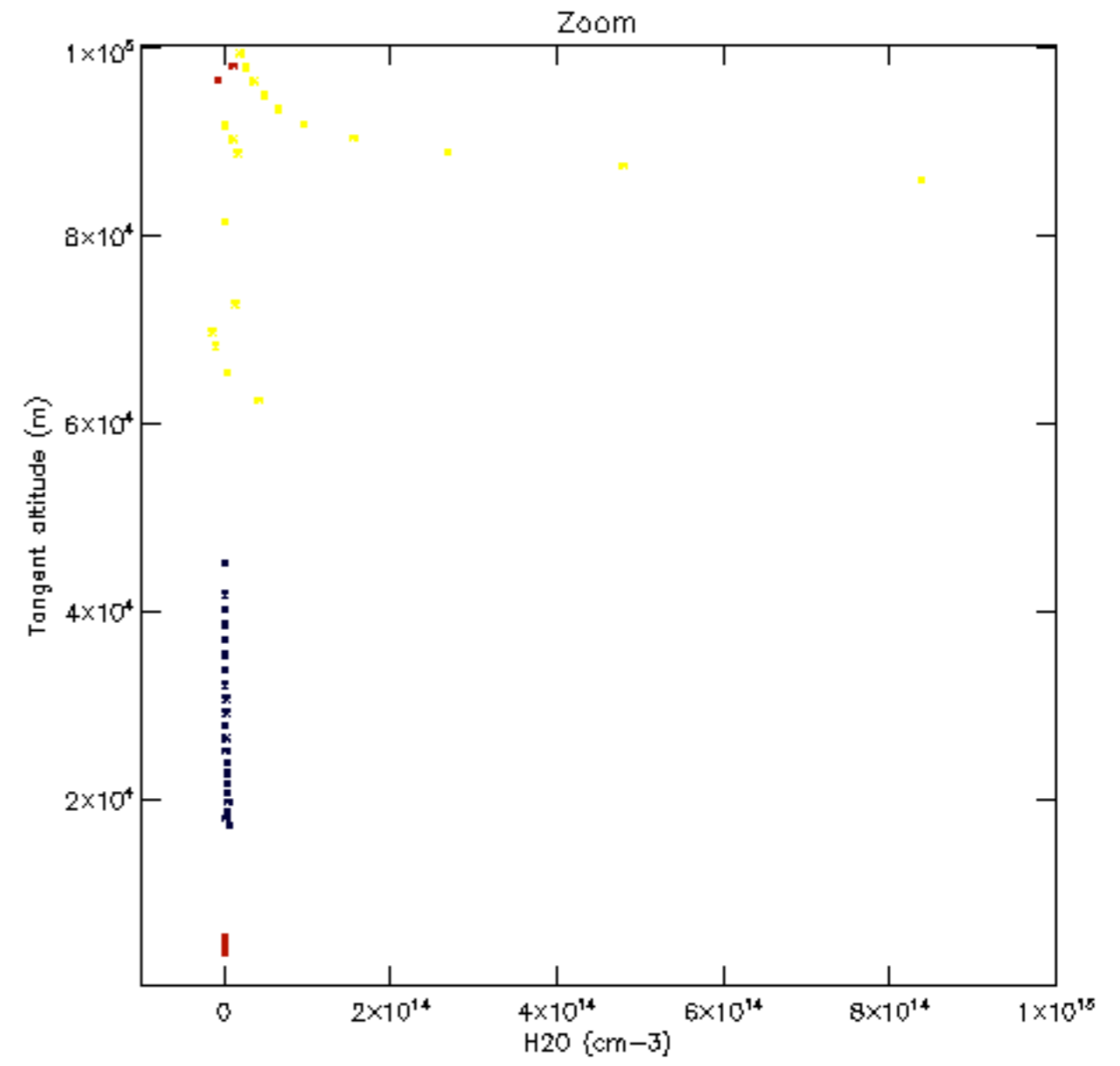
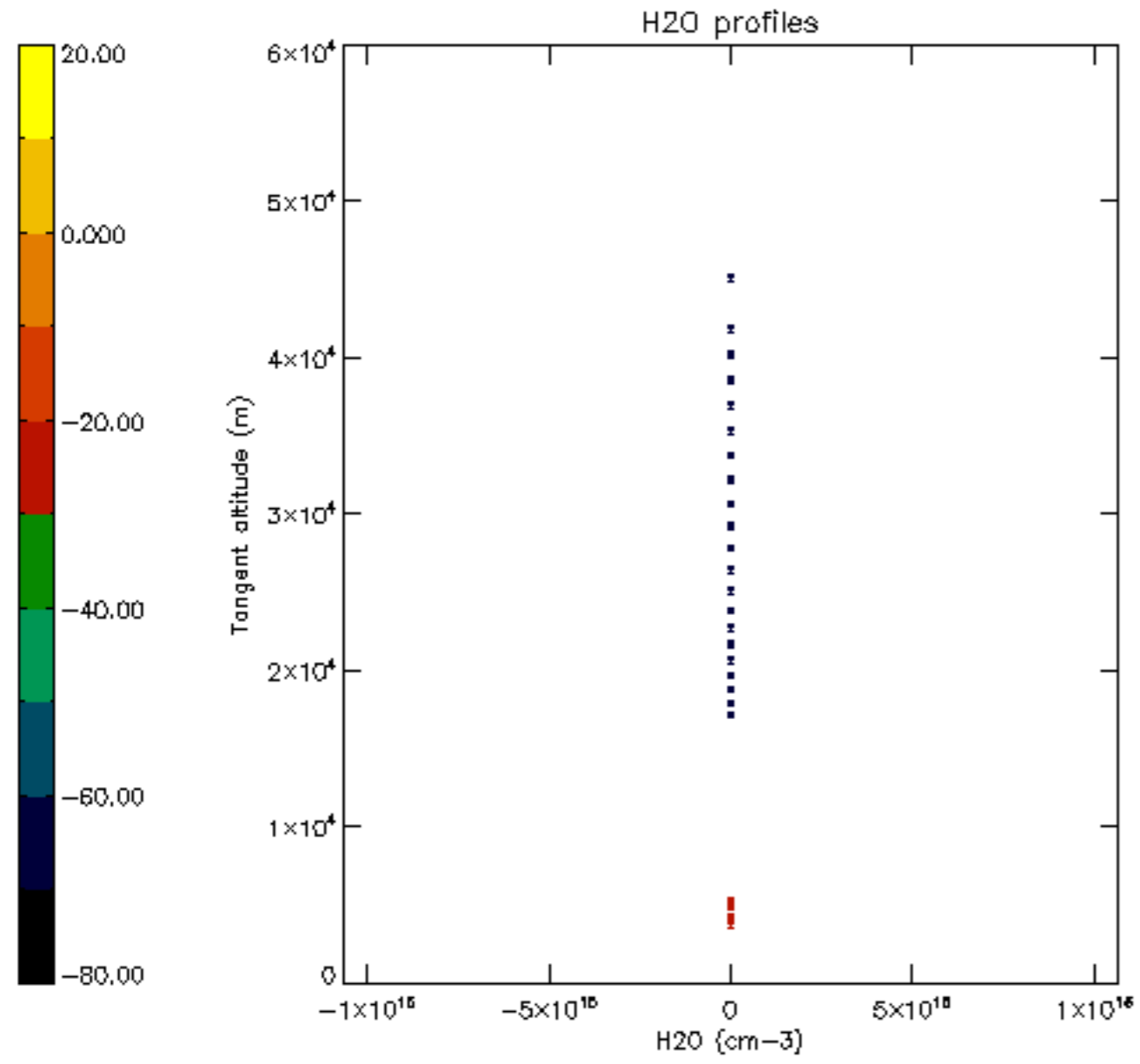


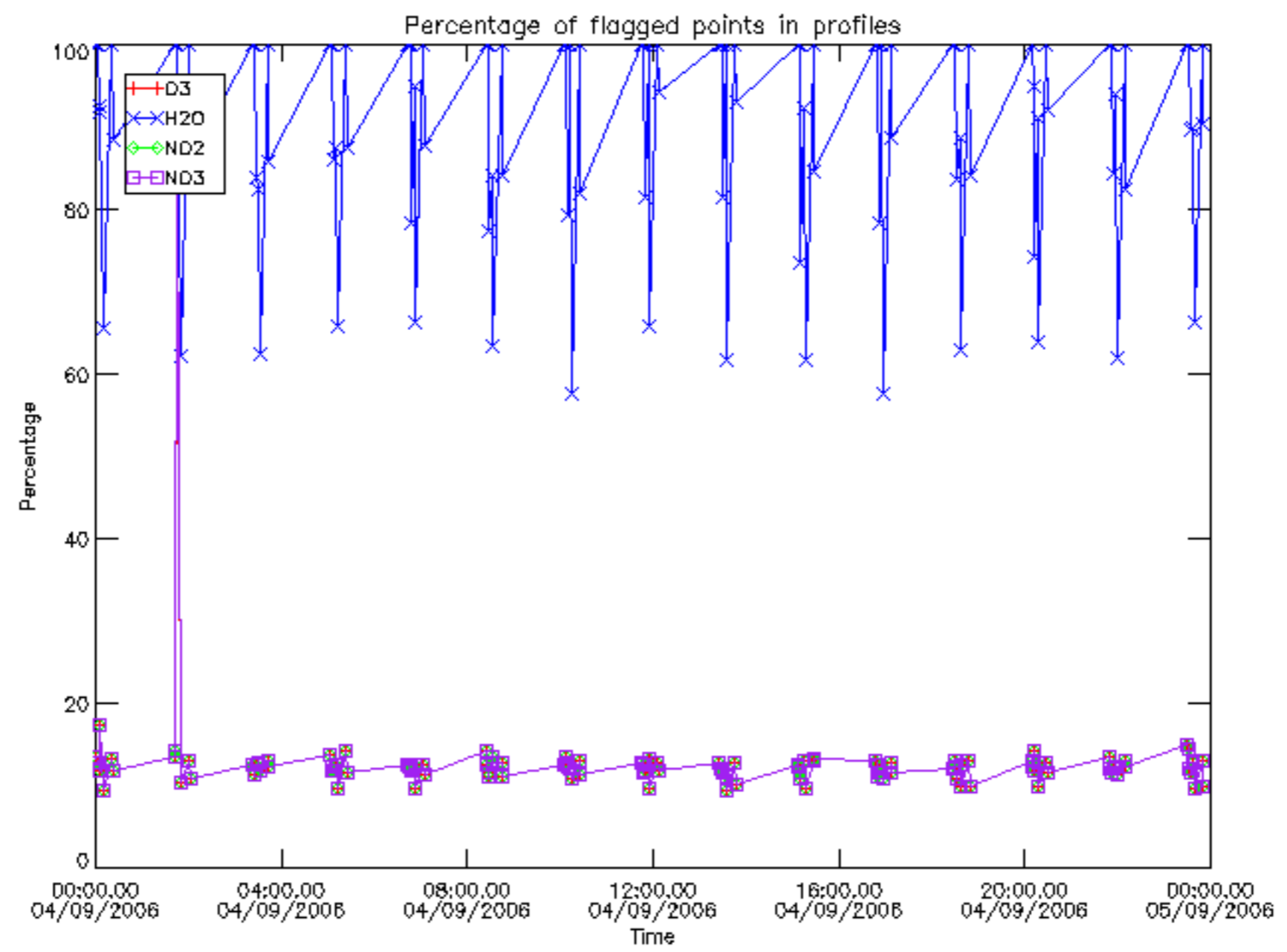




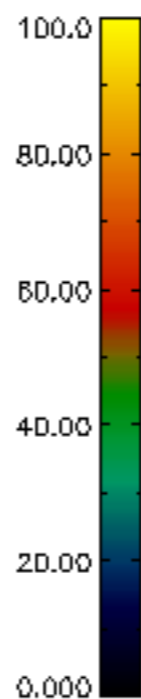
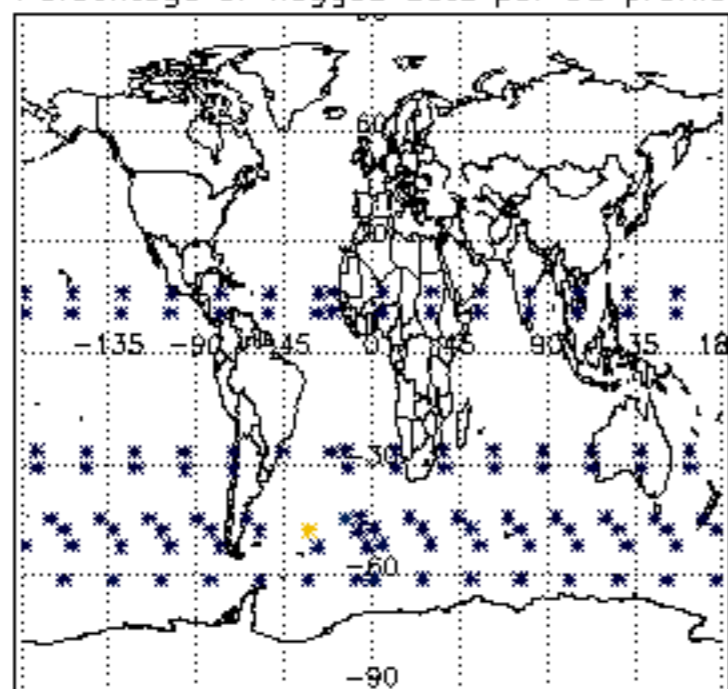




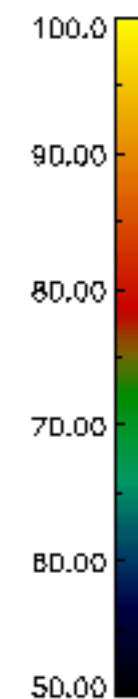
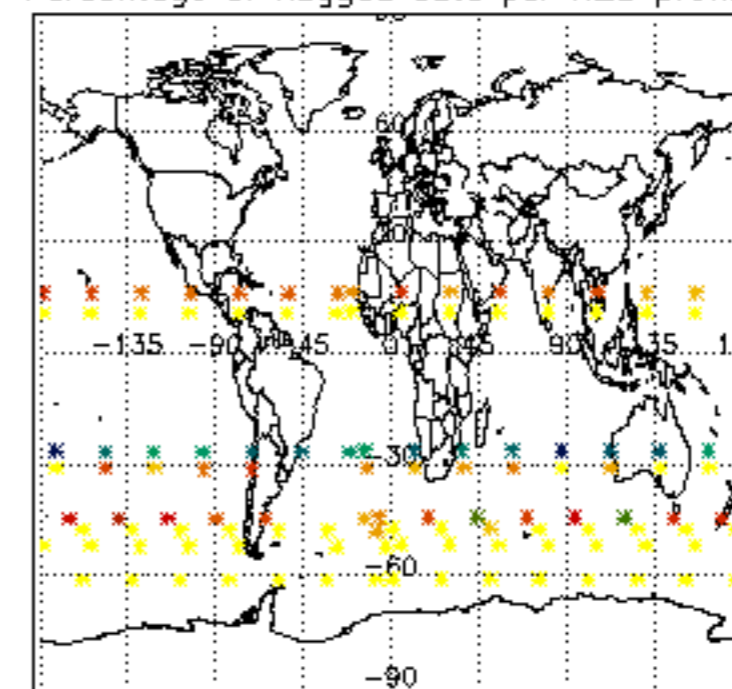




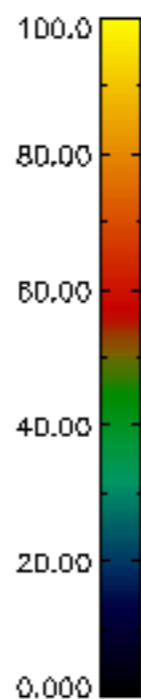
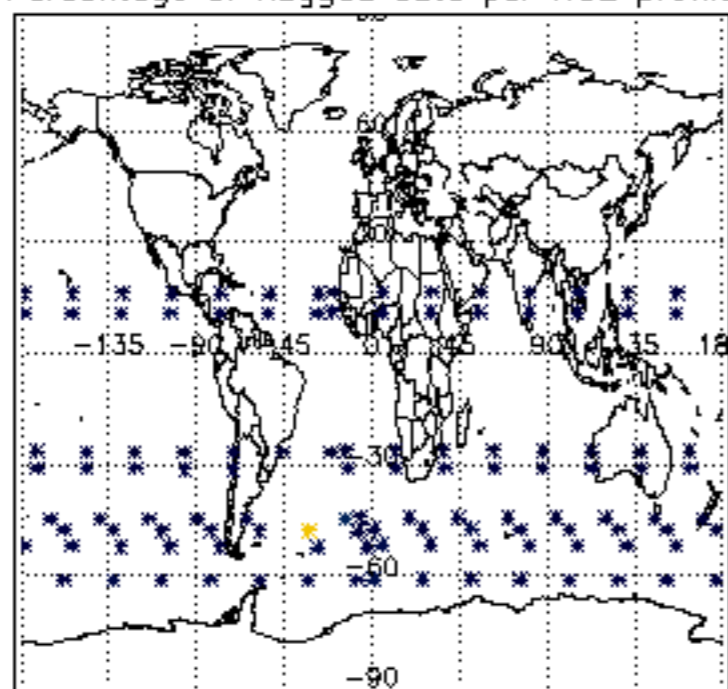
Percentage of flagged data per D3 profile



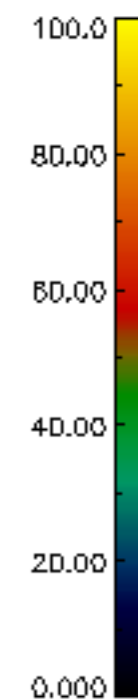
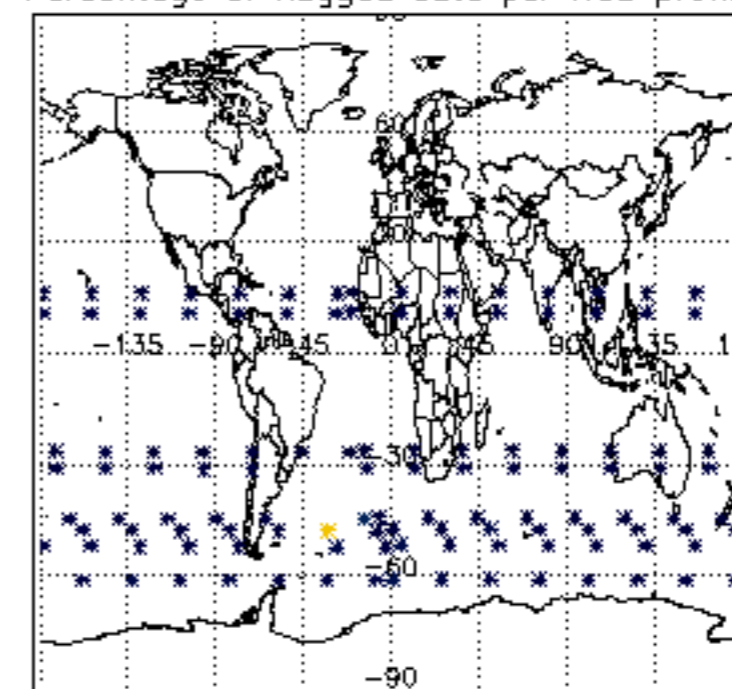
Percentage of flagged data per H2O profile

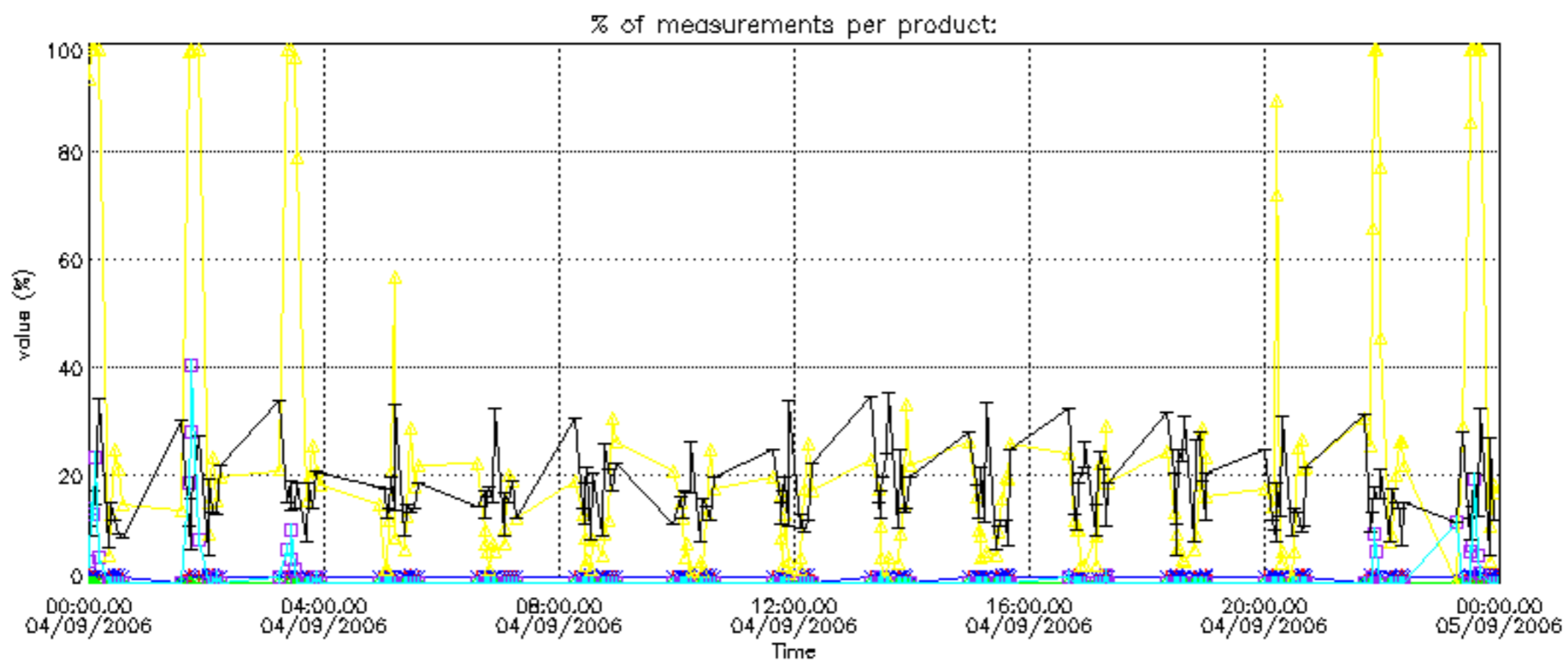


Percentage of flagged data per NO2 profile

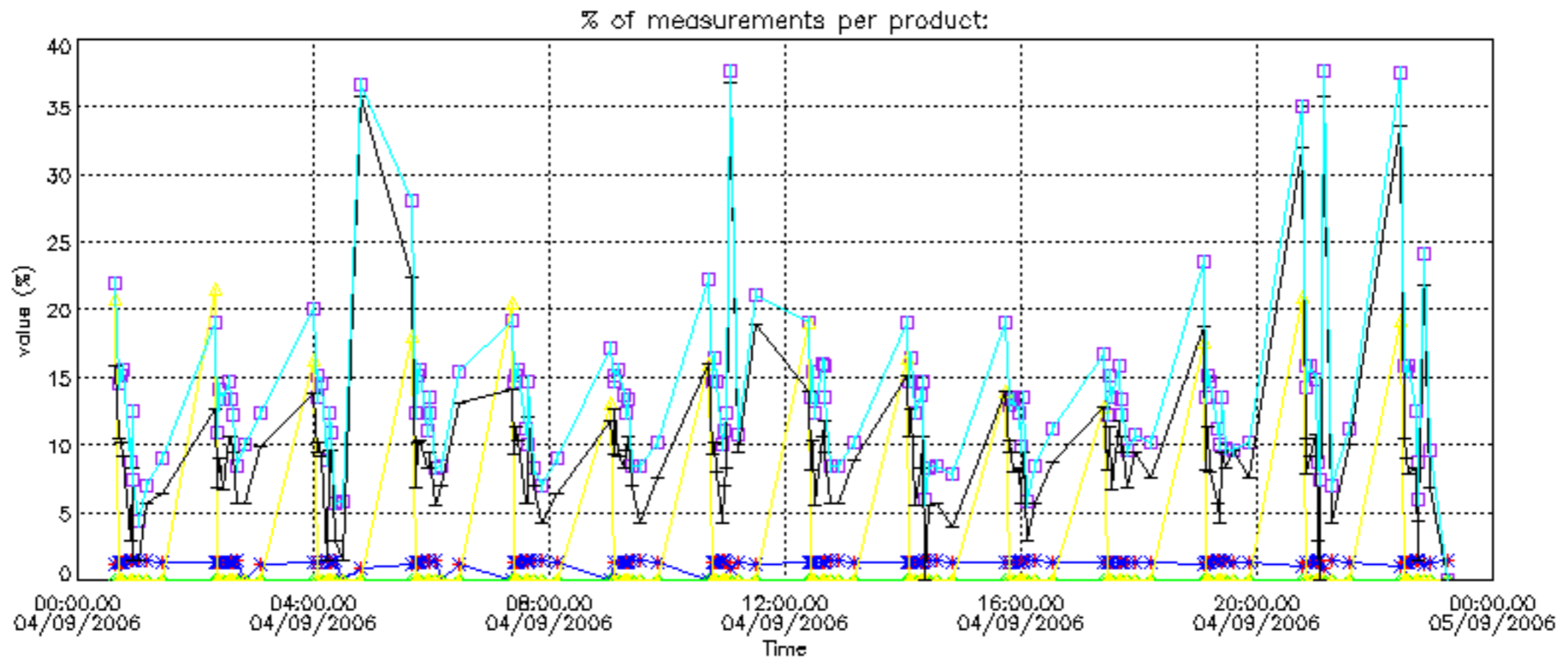


Percentage of flagged data per NO3 profile

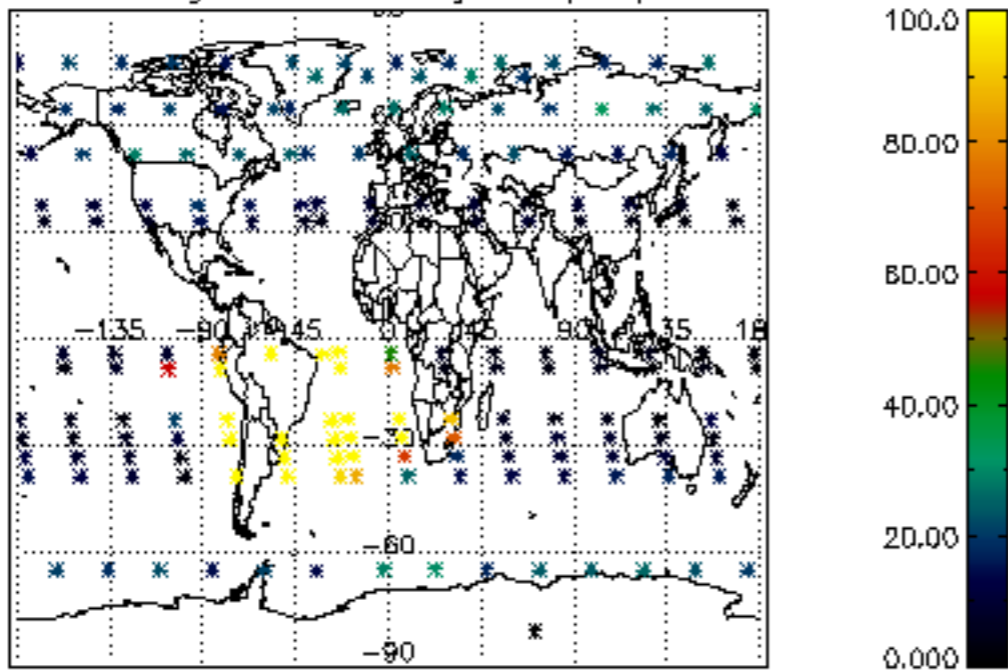




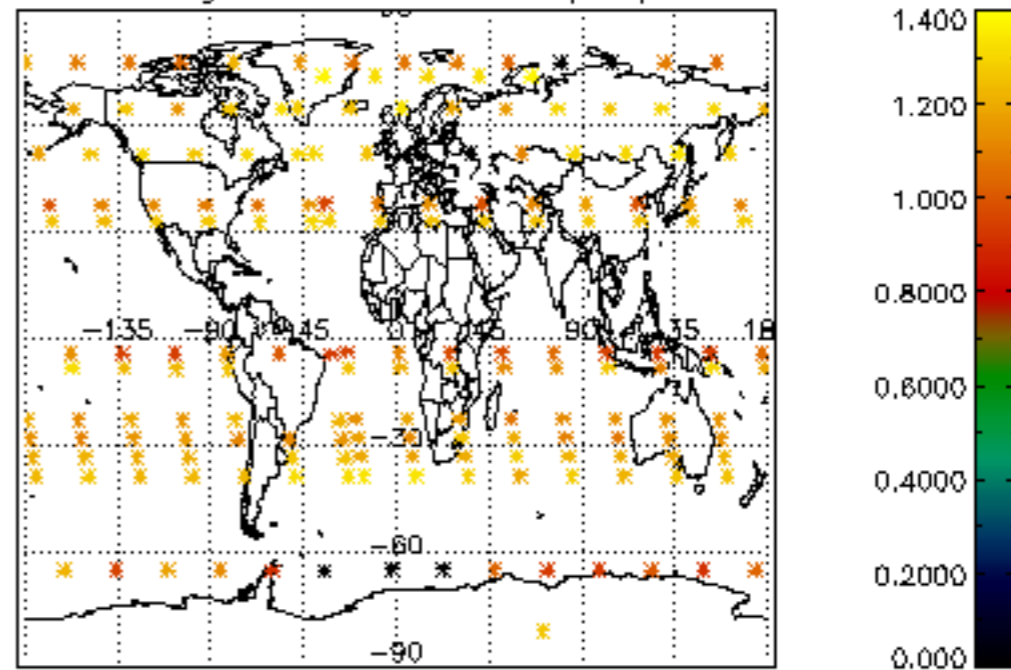




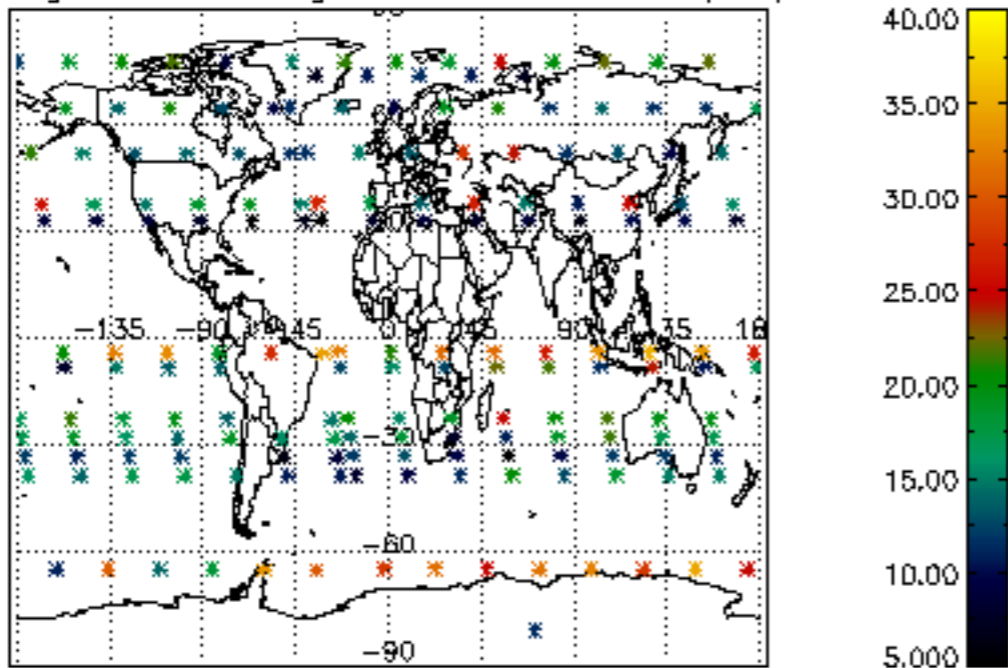
Percentage of cosmic ray hits per profile



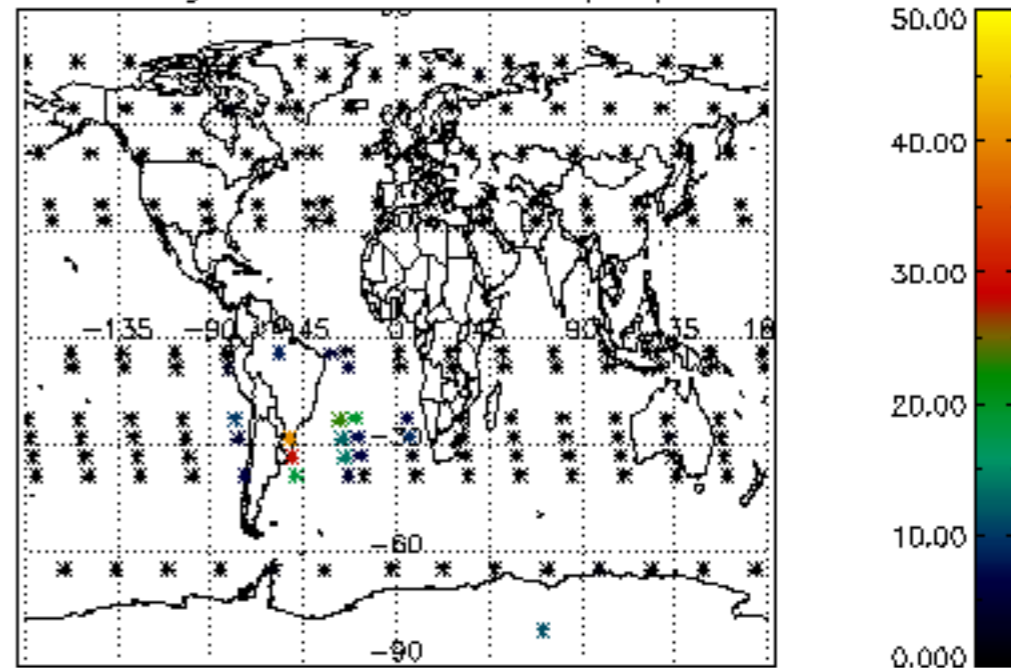
Percentage of datation errors per profile



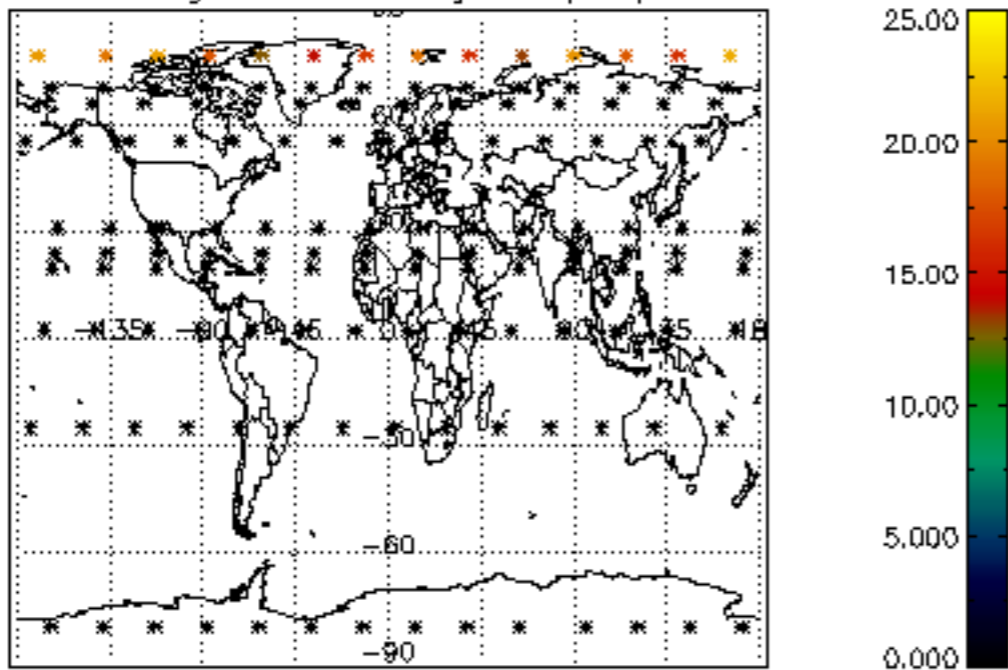
Percentage of star falling outside central band per profile



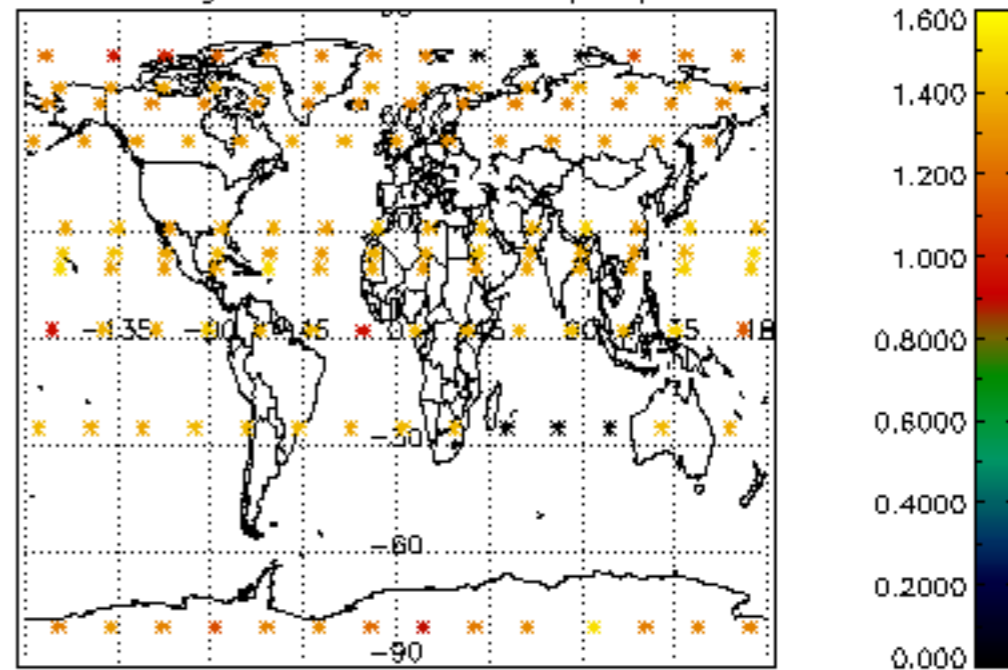
Percentage of saturation errors per profile



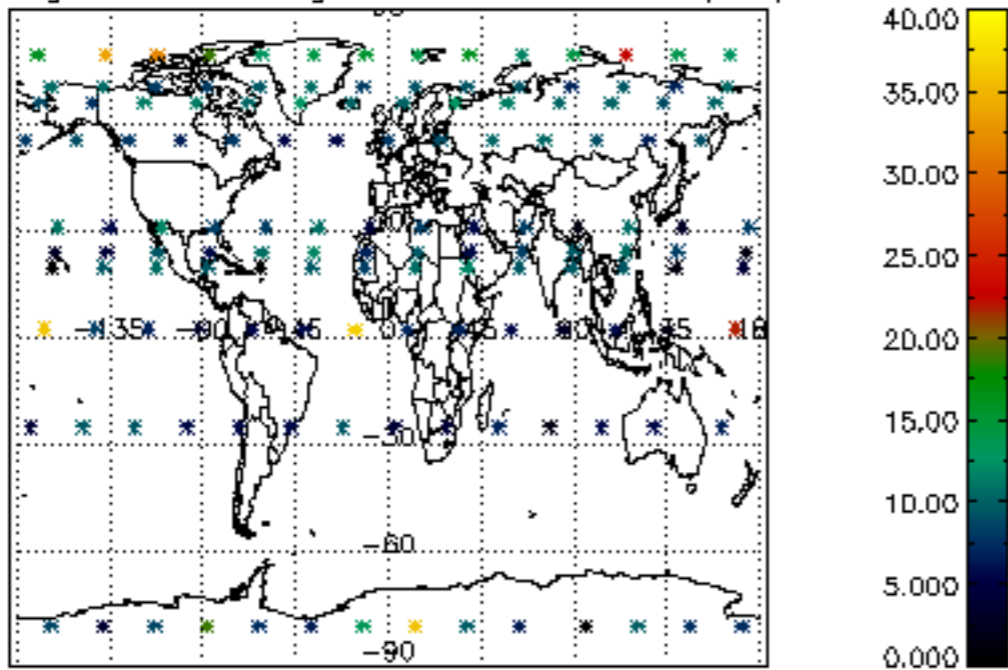
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

