

# 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 22:11:20
Data source version	GOMOS/6.01
Start time of products	15-11-2008 (15NOV2008 00:00:00)
Stop time of products	16-11-2008 (16NOV2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	217
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__2PRFIN20081115_000415_000000862073_00460_35083_1799.N1	15-NOV-2008 00:04:15	Twilight	85.500	7	19Bet Ori	0.10000	14000.	171	35083	No
2	GOM_NL__2PRFIN20081115_000622_000000412073_00460_35083_1800.N1	15-NOV-2008 00:06:22	Twilight	41.000	125	44Iot Ori	2.7700	30000.	82	35083	No
3	GOM_NL__2PRFIN20081115_001344_000000642073_00460_35083_1801.N1	15-NOV-2008 00:13:44	Bright	63.500	13	87Alp Tau	0.86700	3800.0	127	35083	No
4	GOM_NL__2PRFIN20081115_001658_000000432073_00460_35083_1802.N1	15-NOV-2008 00:16:58	Bright	43.000	150	44Zet Per	2.8900	28000.	86	35083	No
5	GOM_NL__2PRFIN20081115_002042_000000592073_00460_35083_1803.N1	15-NOV-2008 00:20:42	Bright	59.000	114	3Iot Aur	2.6930	4600.0	118	35083	No
6	GOM_NL__2PRFIN20081115_002459_000000752073_00460_35083_1804.N1	15-NOV-2008 00:24:59	Bright	75.000	6	13Alp Aur	0.080000	3400.0	150	35083	No
7	GOM_NL__2PRFIN20081115_002803_000000602073_00460_35083_1805.N1	15-NOV-2008 00:28:03	Bright	59.500	42	34Bet Aur	1.9000	10200.	119	35083	No
8	GOM_NL__2PRFIN20081115_005457_000000892073_00460_35083_1806.N1	15-NOV-2008 00:54:57	Twilight	89.000	166	17Eps Leo	2.9800	6000.0	178	35083	No
9	GOM_NL__2PRFIN20081115_005944_000000852073_00460_35083_1807.N1	15-NOV-2008 00:59:44	Twilight	84.500	22	32Alp Leo	1.3600	15200.	169	35083	No
10	GOM_NL__2PRFIN20081115_011252_000001082073_00460_35083_1808.N1	15-NOV-2008 01:12:52	Dark	108.00	48	30Alp Hya	1.9770	4100.0	216	35083	No
11	GOM_NL__2PRFIN20081115_012623_000000662073_00461_35084_1807.N1	15-NOV-2008 01:26:23	Dark	65.500	117	Pi Pup	2.7060	3800.0	131	35084	No
12	GOM_NL__2PRFIN20081115_012809_000000802073_00461_35084_1808.N1	15-NOV-2008 01:28:09	Dark	80.000	88	31Eta CMa	2.4480	20000.	160	35084	No
13	GOM_NL__2PRFIN20081115_013026_000000772073_00461_35084_1809.N1	15-NOV-2008 01:30:26	Dark	76.500	23	21Eps CMa	1.5020	26000.	153	35084	No
14	GOM_NL__2PRFIN20081115_013250_000000532073_00461_35084_1810.N1	15-NOV-2008 01:32:50	Dark	53.000	108	Alp Col	2.6520	15200.	106	35084	No
15	GOM_NL__2PRFIN20081115_013905_000000342073_00461_35084_1811.N1	15-NOV-2008 01:39:05	Straylight	34.000	47	2Bet CMa	1.9760	28000.	68	35084	No
16	GOM_NL__2PRFIN20081115_014451_000000862073_00461_35084_1812.N1	15-NOV-2008 01:44:51	Twilight	86.000	7	19Bet Ori	0.10000	14000.	172	35084	No
17	GOM_NL__2PRFIN20081115_014657_000000482073_00461_35084_1813.N1	15-NOV-2008 01:46:57	Twilight	48.000	125	44Iot Ori	2.7700	30000.	96	35084	No
18	GOM_NL__2PRFIN20081115_015419_000000632073_00461_35084_1814.N1	15-NOV-2008 01:54:19	Bright	63.000	13	87Alp Tau	0.86700	3800.0	126	35084	No
19	GOM_NL__2PRFIN20081115_015734_000000452073_00461_35084_1815.N1	15-NOV-2008 01:57:34	Bright	44.500	150	44Zet Per	2.8900	28000.	89	35084	No
20	GOM_NL__2PRFIN20081115_020117_000000602073_00461_35084_1816.N1	15-NOV-2008 02:01:17	Bright	59.500	114	3Iot Aur	2.6930	4600.0	119	35084	No
21	GOM_NL__2PRFIN20081115_020534_000000562073_00461_35084_1817.N1	15-NOV-2008 02:05:34	Bright	55.500	6	13Alp Aur	0.080000	3400.0	111	35084	No
22	GOM_NL__2PRFIN20081115_020838_000000582073_00461_35084_1818.N1	15-NOV-2008 02:08:38	Bright	57.500	42	34Bet Aur	1.9000	10200.	115	35084	No
23	GOM_NL__2PRFIN20081115_023533_000000892073_00461_35084_1819.N1	15-NOV-2008 02:35:33	Twilight	88.500	166	17Eps Leo	2.9800	6000.0	177	35084	No
24	GOM_NL__2PRFIN20081115_024022_000000882073_00461_35084_1820.N1	15-NOV-2008 02:40:22	Twilight	87.500	22	32Alp Leo	1.3600	15200.	175	35084	No
25	GOM_NL__2PRFIN20081115_025331_000001172073_00461_35084_1821.N1	15-NOV-2008 02:53:31	Dark	116.50	48	30Alp Hya	1.9770	4100.0	233	35084	No
26	GOM_NL__2PRFIN20081115_030700_000000632073_00462_35085_1817.N1	15-NOV-2008 03:07:00	Dark	63.000	117	Pi Pup	2.7060	3800.0	126	35085	No
27	GOM_NL__2PRFIN20081115_030846_000000782073_00462_35085_1818.N1	15-NOV-2008 03:08:46	Dark	78.000	88	31Eta CMa	2.4480	20000.	156	35085	No
28	GOM_NL__2PRFIN20081115_031103_000000822073_00462_35085_1819.N1	15-NOV-2008 03:11:03	Dark	82.000	23	21Eps CMa	1.5020	26000.	164	35085	No
29	GOM_NL__2PRFIN20081115_031326_000000512073_00462_35085_1820.N1	15-NOV-2008 03:13:26	Dark	51.000	108	Alp Col	2.6520	15200.	102	35085	No
30	GOM_NL__2PRFIN20081115_031941_000000342073_00462_35085_1821.N1	15-NOV-2008 03:19:41	Straylight	34.000	47	2Bet CMa	1.9760	28000.	68	35085	No
31	GOM_NL__2PRFIN20081115_032526_000000892073_00462_35085_1822.N1	15-NOV-2008 03:25:26	Twilight	88.500	7	19Bet Ori	0.10000	14000.	177	35085	No
32	GOM_NL__2PRFIN20081115_032732_000000482073_00462_35085_1823.N1	15-NOV-2008 03:27:32	Twilight	48.000	125	44Iot Ori	2.7700	30000.	96	35085	No
33	GOM_NL__2PRFIN20081115_033454_000000622073_00462_35085_1824.N1	15-NOV-2008 03:34:54	Bright	62.000	13	87Alp Tau	0.86700	3800.0	124	35085	No
34	GOM_NL__2PRFIN20081115_033809_000000442073_00462_35085_1825.N1	15-NOV-2008 03:38:09	Bright	44.000	150	44Zet Per	2.8900	28000.	88	35085	No
35	GOM_NL__2PRFIN20081115_034152_000000592073_00462_35085_1826.N1	15-NOV-2008 03:41:52	Bright	59.000	114	3Iot Aur	2.6930	4600.0	118	35085	No
36	GOM_NL__2PRFIN20081115_034609_000000572073_00462_35085_1827.N1	15-NOV-2008 03:46:09	Bright	57.000	6	13Alp Aur	0.080000	3400.0	114	35085	No
37	GOM_NL__2PRFIN20081115_034913_000000612073_00462_35085_1828.N1	15-NOV-2008 03:49:13	Bright	61.000	42	34Bet Aur	1.9000	10200.	122	35085	No
38	GOM_NL__2PRFIN20081115_041610_000000932073_00462_35085_1829.N1	15-NOV-2008 04:16:10	Twilight	92.500	166	17Eps Leo	2.9800	6000.0	185	35085	No
39	GOM_NL__2PRFIN20081115_042059_000000832073_00462_35085_1830.N1	15-NOV-2008 04:20:59	Twilight	82.500	22	32Alp Leo	1.3600	15200.	165	35085	No
40	GOM_NL__2PRFIN20081115_043410_000001102073_00462_35085_1831.N1	15-NOV-2008 04:34:10	Dark	110.00	48	30Alp Hya	1.9770	4100.0	220	35085	No
41	GOM_NL__2PRFIN20081115_044737_000000662073_00463_35086_1837.N1	15-NOV-2008 04:47:37	Dark	66.000	117	Pi Pup	2.7060	3800.0	132	35086	No
42	GOM_NL__2PRFIN20081115_044924_000000782073_00463_35086_1838.N1	15-NOV-2008 04:49:24	Dark	77.500	88	31Eta CMa	2.4480	20000.	155	35086	No





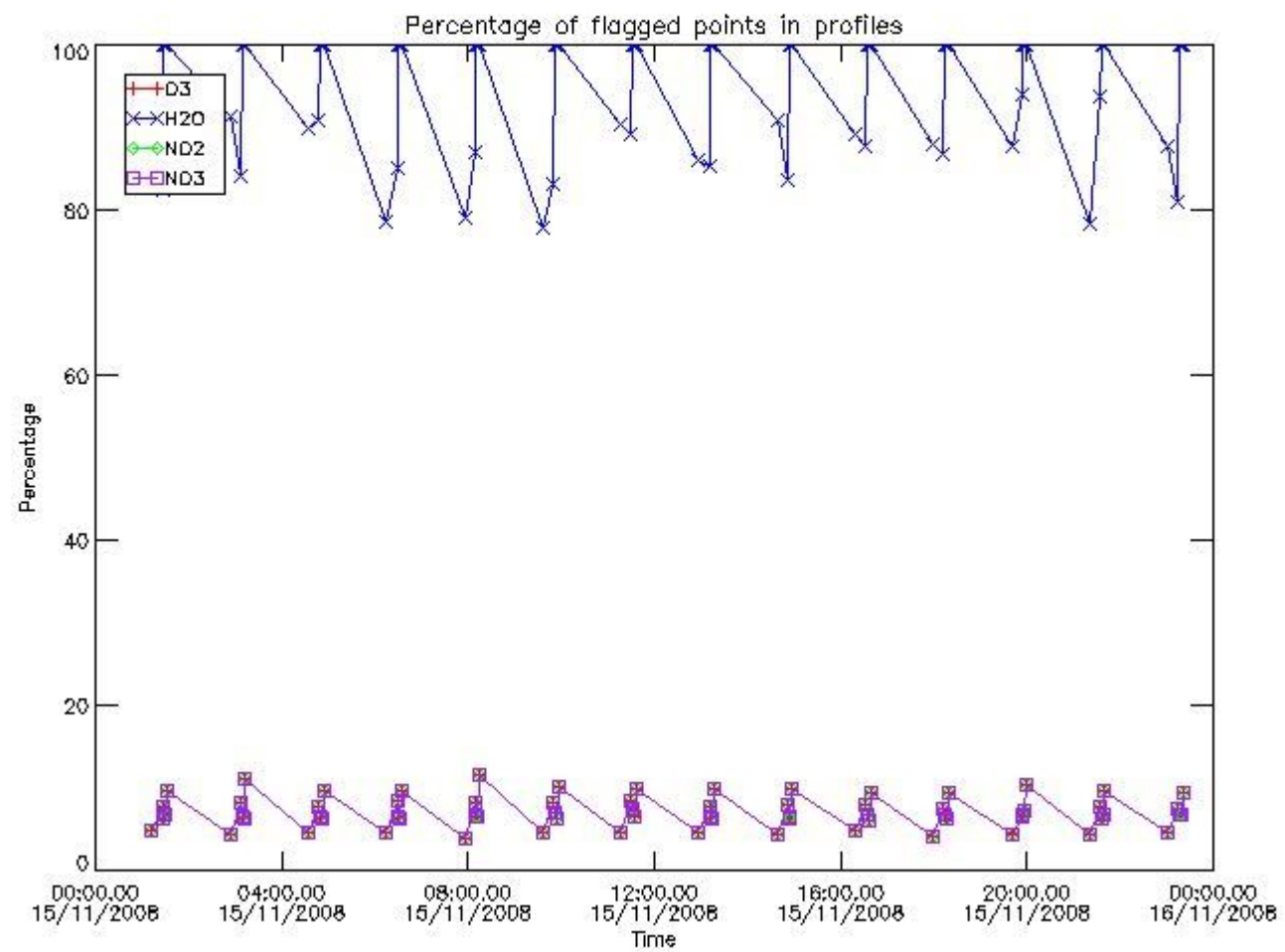


161	GOM_NL__2PRFIN20081115_175922_000001242073_00470_35093_1948.N1	15-NOV-2008 17:59:22	Dark	124.00	48	30Alp Hya	1.9770	4100.0	248	35093	No
162	GOM_NL__2PRFIN20081115_181234_000000692073_00471_35094_1949.N1	15-NOV-2008 18:12:34	Dark	68.500	117	Pi Pup	2.7060	3800.0	137	35094	No
163	GOM_NL__2PRFIN20081115_181423_000000762073_00471_35094_1950.N1	15-NOV-2008 18:14:23	Dark	76.000	88	31Eta CMa	2.4480	20000.	152	35094	No
164	GOM_NL__2PRFIN20081115_181638_000000822073_00471_35094_1951.N1	15-NOV-2008 18:16:38	Dark	81.500	23	21Eps CMa	1.5020	26000.	163	35094	No
165	GOM_NL__2PRFIN20081115_181855_000000542073_00471_35094_1952.N1	15-NOV-2008 18:18:55	Dark	54.000	108	Alp Col	2.6520	15200.	108	35094	No
166	GOM_NL__2PRFIN20081115_182508_000000542073_00471_35094_1953.N1	15-NOV-2008 18:25:08	Straylight	54.000	47	2Bet CMa	1.9760	28000.	108	35094	No
167	GOM_NL__2PRFIN20081115_183046_000000832073_00471_35094_1954.N1	15-NOV-2008 18:30:46	Twilight_and_stray	82.500	7	19Bet Ori	0.10000	14000.	165	35094	No
168	GOM_NL__2PRFIN20081115_183247_000000802073_00471_35094_1955.N1	15-NOV-2008 18:32:47	Twilight_and_stray	80.000	125	44Iot Ori	2.7700	30000.	160	35094	No
169	GOM_NL__2PRFIN20081115_184010_000000622073_00471_35094_1956.N1	15-NOV-2008 18:40:10	Bright	62.000	13	87Alp Tau	0.86700	3800.0	124	35094	No
170	GOM_NL__2PRFIN20081115_184704_000000572073_00471_35094_1957.N1	15-NOV-2008 18:47:04	Bright	56.500	114	3Iot Aur	2.6930	4600.0	113	35094	No
171	GOM_NL__2PRFIN20081115_185123_000000592073_00471_35094_1958.N1	15-NOV-2008 18:51:23	Bright	58.500	6	13Alp Aur	0.080000	3400.0	117	35094	No
172	GOM_NL__2PRFIN20081115_185423_000000642073_00471_35094_1959.N1	15-NOV-2008 18:54:23	Bright	63.500	42	34Bet Aur	1.9000	10200.	127	35094	No
173	GOM_NL__2PRFIN20081115_191955_000000492073_00471_35094_1960.N1	15-NOV-2008 19:19:55	Bright	48.500	96	68Del Leo	2.5600	9300.0	97	35094	No
174	GOM_NL__2PRFIN20081115_192143_000000992073_00471_35094_1961.N1	15-NOV-2008 19:21:43	Twilight_and_stray	98.500	166	17Eps Leo	2.9800	6000.0	197	35094	No
175	GOM_NL__2PRFIN20081115_192635_000000882073_00471_35094_1962.N1	15-NOV-2008 19:26:35	Twilight_and_stray	87.500	22	32Alp Leo	1.3600	15200.	175	35094	No
176	GOM_NL__2PRFIN20081115_194001_000001182073_00471_35094_1963.N1	15-NOV-2008 19:40:01	Dark	117.50	48	30Alp Hya	1.9770	4100.0	235	35094	No
177	GOM_NL__2PRFIN20081115_195311_000000752073_00472_35095_1969.N1	15-NOV-2008 19:53:11	Dark	74.500	117	Pi Pup	2.7060	3800.0	149	35095	No
178	GOM_NL__2PRFIN20081115_195500_000000792073_00472_35095_1970.N1	15-NOV-2008 19:55:00	Dark	79.000	88	31Eta CMa	2.4480	20000.	158	35095	No
179	GOM_NL__2PRFIN20081115_195715_000000842073_00472_35095_1971.N1	15-NOV-2008 19:57:15	Dark	84.000	23	21Eps CMa	1.5020	26000.	168	35095	No
180	GOM_NL__2PRFIN20081115_195932_000000552073_00472_35095_1972.N1	15-NOV-2008 19:59:32	Dark	54.500	108	Alp Col	2.6520	15200.	109	35095	No
181	GOM_NL__2PRFIN20081115_200544_000000542073_00472_35095_1973.N1	15-NOV-2008 20:05:44	Straylight	54.000	47	2Bet CMa	1.9760	28000.	108	35095	No
182	GOM_NL__2PRFIN20081115_201122_000000822073_00472_35095_1974.N1	15-NOV-2008 20:11:22	Twilight_and_stray	82.000	7	19Bet Ori	0.10000	14000.	164	35095	No
183	GOM_NL__2PRFIN20081115_201322_000000802073_00472_35095_1975.N1	15-NOV-2008 20:13:22	Twilight_and_stray	80.000	125	44Iot Ori	2.7700	30000.	160	35095	No
184	GOM_NL__2PRFIN20081115_202045_000000622073_00472_35095_1976.N1	15-NOV-2008 20:20:45	Bright	62.000	13	87Alp Tau	0.86700	3800.0	124	35095	No
185	GOM_NL__2PRFIN20081115_202739_000000592073_00472_35095_1977.N1	15-NOV-2008 20:27:39	Bright	59.000	114	3Iot Aur	2.6930	4600.0	118	35095	No
186	GOM_NL__2PRFIN20081115_203158_000000562073_00472_35095_1978.N1	15-NOV-2008 20:31:58	Bright	56.000	6	13Alp Aur	0.080000	3400.0	112	35095	No
187	GOM_NL__2PRFIN20081115_203458_000000652073_00472_35095_1979.N1	15-NOV-2008 20:34:58	Bright	64.500	42	34Bet Aur	1.9000	10200.	129	35095	No
188	GOM_NL__2PRFIN20081115_210031_000000472073_00472_35095_1980.N1	15-NOV-2008 21:00:31	Bright	47.000	96	68Del Leo	2.5600	9300.0	94	35095	No
189	GOM_NL__2PRFIN20081115_210220_000001002073_00472_35095_1981.N1	15-NOV-2008 21:02:20	Twilight_and_stray	100.00	166	17Eps Leo	2.9800	6000.0	200	35095	No
190	GOM_NL__2PRFIN20081115_210713_000000942073_00472_35095_1982.N1	15-NOV-2008 21:07:13	Twilight_and_stray	93.500	22	32Alp Leo	1.3600	15200.	187	35095	No
191	GOM_NL__2PRFIN20081115_212040_000001202073_00472_35095_1983.N1	15-NOV-2008 21:20:40	Dark	120.00	48	30Alp Hya	1.9770	4100.0	240	35095	No
192	GOM_NL__2PRFIN20081115_213348_000000662073_00473_35096_1985.N1	15-NOV-2008 21:33:48	Dark	65.500	117	Pi Pup	2.7060	3800.0	131	35096	No
193	GOM_NL__2PRFIN20081115_213538_000000812073_00473_35096_1986.N1	15-NOV-2008 21:35:38	Dark	80.500	88	31Eta CMa	2.4480	20000.	161	35096	No
194	GOM_NL__2PRFIN20081115_213752_000000842073_00473_35096_1987.N1	15-NOV-2008 21:37:52	Dark	83.500	23	21Eps CMa	1.5020	26000.	167	35096	No
195	GOM_NL__2PRFIN20081115_214008_000000532073_00473_35096_1988.N1	15-NOV-2008 21:40:08	Dark	52.500	108	Alp Col	2.6520	15200.	105	35096	No
196	GOM_NL__2PRFIN20081115_214620_000000582073_00473_35096_1989.N1	15-NOV-2008 21:46:20	Straylight	58.000	47	2Bet CMa	1.9760	28000.	116	35096	No
197	GOM_NL__2PRFIN20081115_215157_000000842073_00473_35096_1990.N1	15-NOV-2008 21:51:57	Twilight_and_stray	83.500	7	19Bet Ori	0.10000	14000.	167	35096	No
198	GOM_NL__2PRFIN20081115_215357_000000862073_00473_35096_1991.N1	15-NOV-2008 21:53:57	Twilight_and_stray	86.000	125	44Iot Ori	2.7700	30000.	172	35096	No
199	GOM_NL__2PRFIN20081115_220120_000000622073_00473_35096_1992.N1	15-NOV-2008 22:01:20	Bright	62.000	13	87Alp Tau	0.86700	3800.0	124	35096	No
200	GOM_NL__2PRFIN20081115_220814_000000572073_00473_35096_1993.N1	15-NOV-2008 22:08:14	Bright	56.500	114	3Iot Aur	2.6930	4600.0	113	35096	No
201	GOM_NL__2PRFIN20081115_221233_000000552073_00473_35096_1994.N1	15-NOV-2008 22:12:33	Bright	55.000	6	13Alp Aur	0.080000	3400.0	110	35096	No
202	GOM_NL__2PRFIN20081115_221532_000000652073_00473_35096_1995.N1	15-NOV-2008 22:15:32	Bright	64.500	42	34Bet Aur	1.9000	10200.	129	35096	No
203	GOM_NL__2PRFIN20081115_224107_000000482073_00473_35096_1996.N1	15-NOV-2008 22:41:07	Bright	47.500	96	68Del Leo	2.5600	9300.0	95	35096	No
204	GOM_NL__2PRFIN20081115_224257_000001072073_00473_35096_1997.N1	15-NOV-2008 22:42:57	Twilight_and_stray	106.50	166	17Eps Leo	2.9800	6000.0	213	35096	No
205	GOM_NL__2PRFIN20081115_224750_000000892073_00473_35096_1998.N1	15-NOV-2008 22:47:50	Twilight_and_stray	89.000	22	32Alp Leo	1.3600	15200.	178	35096	No
206	GOM_NL__2PRFIN20081115_230119_000001242073_00473_35096_1999.N1	15-NOV-2008 23:01:19	Dark	123.50	48	30Alp Hya	1.9770	4100.0	247	35096	No
207	GOM_NL__2PRFIN20081115_231425_000000692073_00474_35097_2001.N1	15-NOV-2008 23:14:25	Dark	69.000	117	Pi Pup	2.7060	3800.0	138	35097	No
208	GOM_NL__2PRFIN20081115_231615_000000822073_00474_35097_2002.N1	15-NOV-2008 23:16:15	Dark	82.000	88	31Eta CMa	2.4480	20000.	164	35097	No
209	GOM_NL__2PRFIN20081115_231829_000000752073_00474_35097_2003.N1	15-NOV-2008 23:18:29	Dark	75.000	23	21Eps CMa	1.5020	26000.	150	35097	No
210	GOM_NL__2PRFIN20081115_232045_000000542073_00474_35097_2004.N1	15-NOV-2008 23:20:45	Dark	54.000	108	Alp Col	2.6520	15200.	108	35097	No
211	GOM_NL__2PRFIN20081115_232657_000000582073_00474_35097_2005.N1	15-NOV-2008 23:26:57	Straylight	58.000	47	2Bet CMa	1.9760	28000.	116	35097	No
212	GOM_NL__2PRFIN20081115_233233_000000832073_00474_35097_2006.N1	15-NOV-2008 23:32:33	Twilight_and_stray	83.000	7	19Bet Ori	0.10000	14000.	166	35097	No
213	GOM_NL__2PRFIN20081115_233432_000000862073_00474_35097_2007.N1	15-NOV-2008 23:34:32	Twilight_and_stray	86.000	125	44Iot Ori	2.7700	30000.	172	35097	No
214	GOM_NL__2PRFIN20081115_234155_000000622073_00474_35097_2008.N1	15-NOV-2008 23:41:55	Bright	62.000	13	87Alp Tau	0.86700	3800.0	124	35097	No
215	GOM_NL__2PRFIN20081115_234848_000000592073_00474_35097_2009.N1	15-NOV-2008 23:48:48	Bright	58.500	114	3Iot Aur	2.6930	4600.0	117	35097	No
216	GOM_NL__2PRFIN20081115_235307_000000562073_00474_35097_2010.N1	15-NOV-2008 23:53:07	Bright	55.500	6	13Alp Aur	0.080000	3400.0	111	35097	No
217	GOM_NL__2PRFIN20081115_235607_000000592073_00474_35097_2011.N1	15-NOV-2008 23:56:07	Bright	59.000	42	34Bet Aur	1.9000	10200.	118	35097	No

### 3. Quality information per product

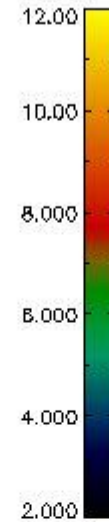
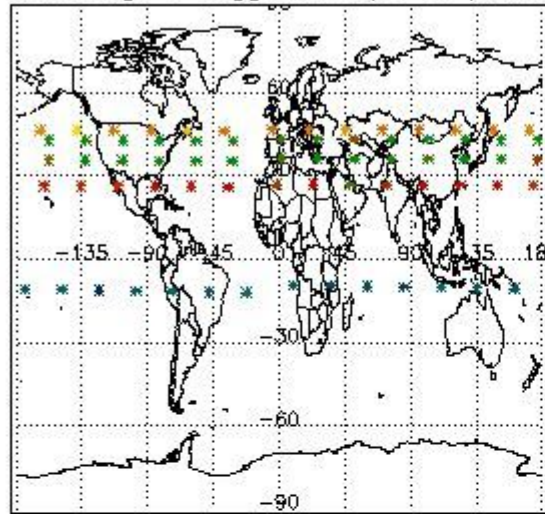
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

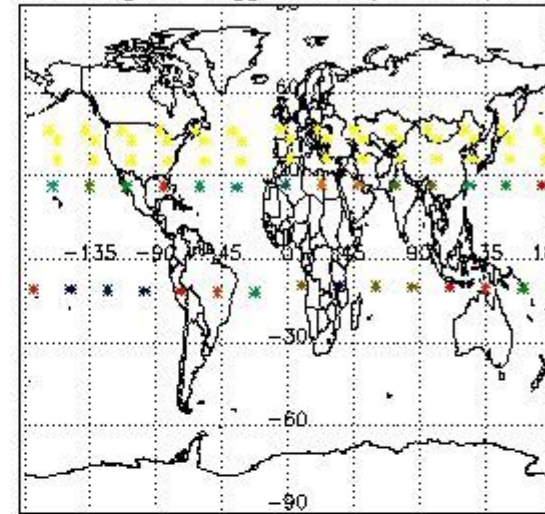


#### 3.2 Plot quality information per product (world map)

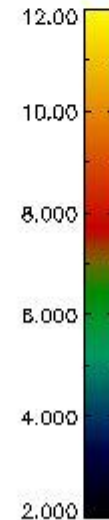
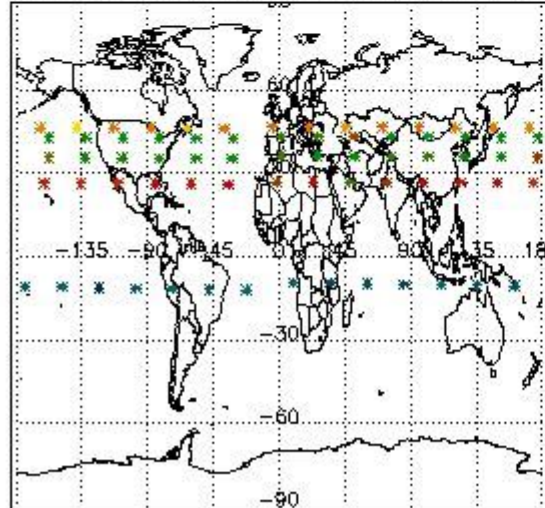
Percentage of flagged data per O3 profile



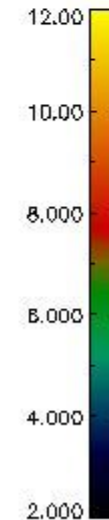
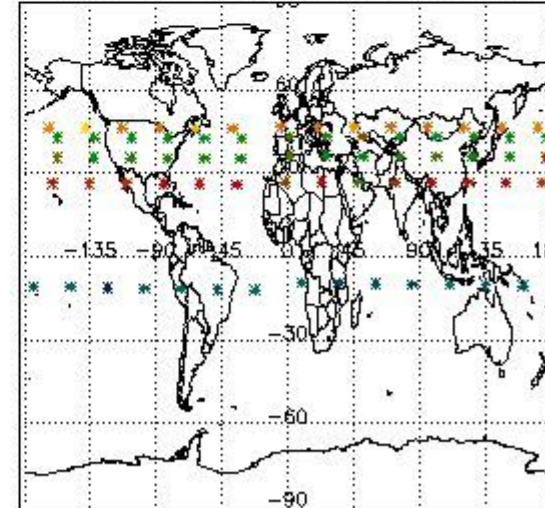
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile



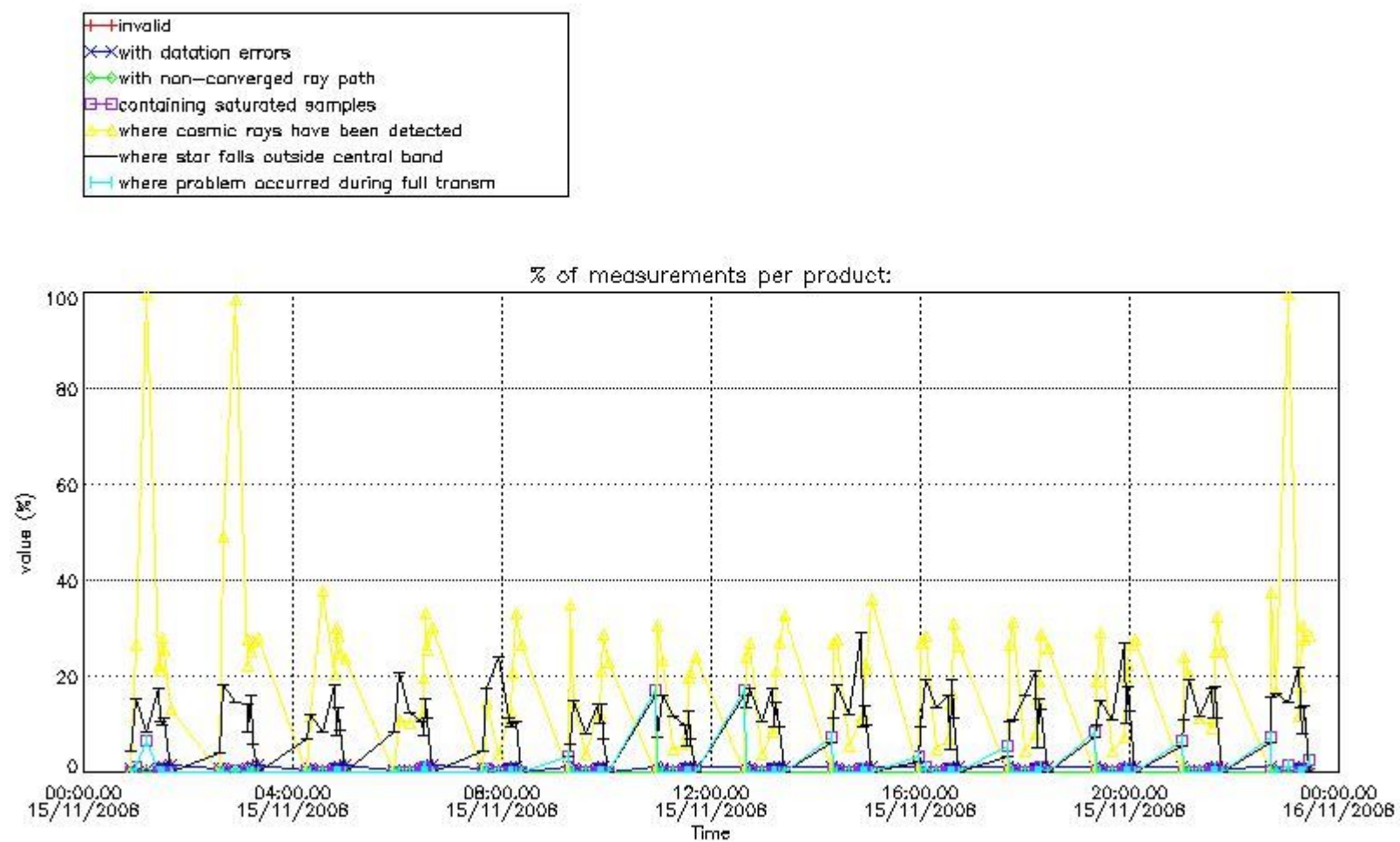
#### 4. Level 1 quality information per product

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

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

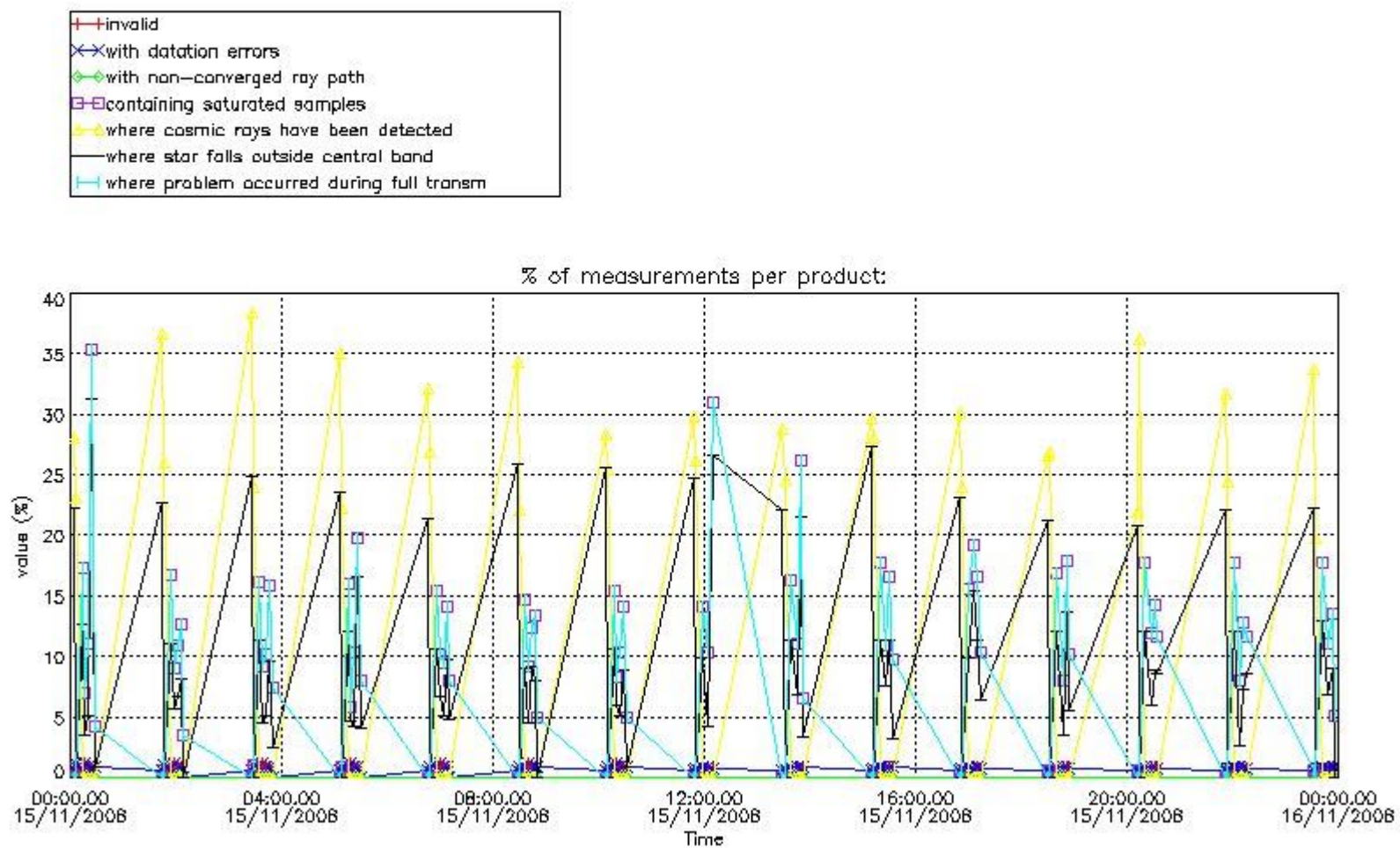
###### 4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes





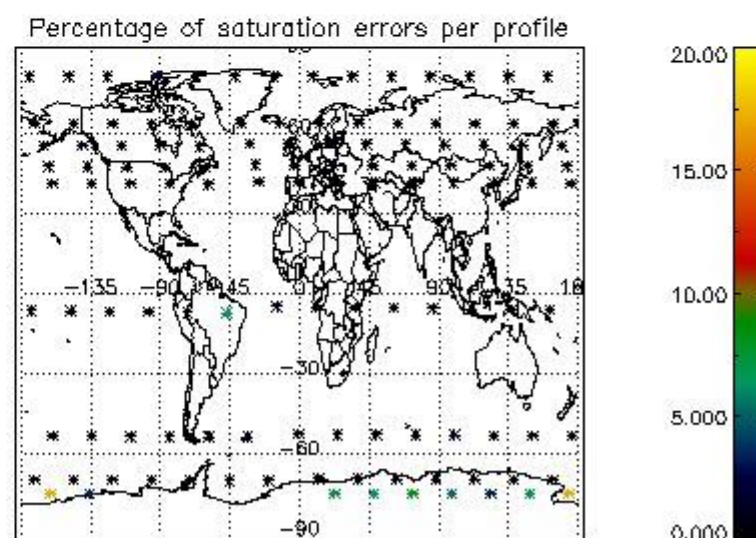
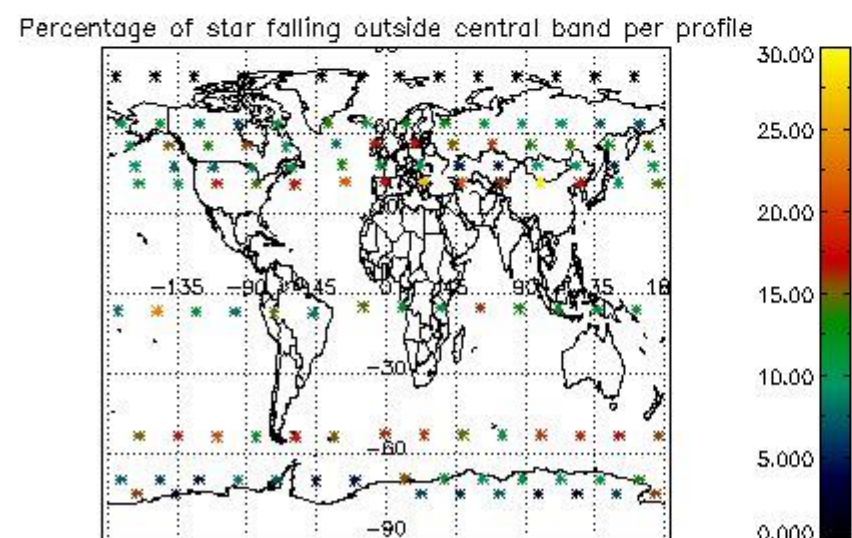
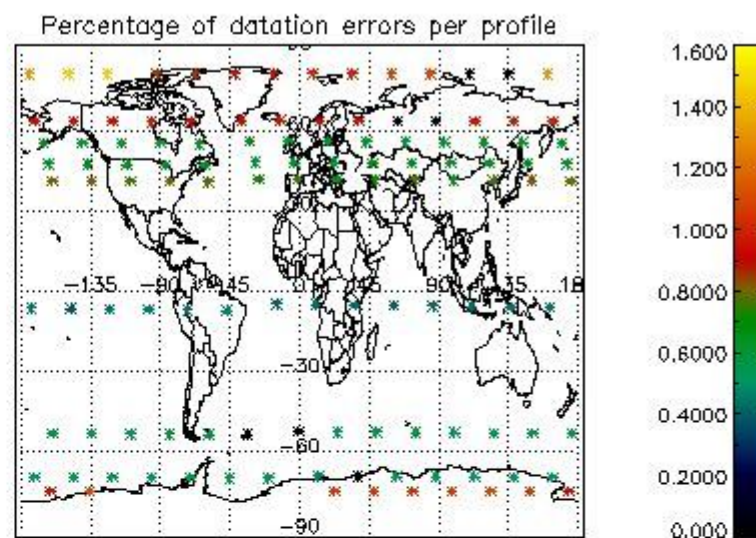
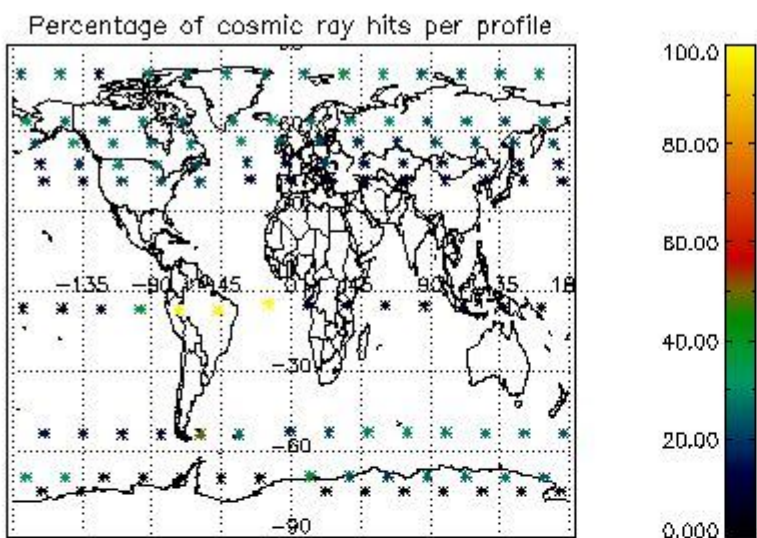
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes





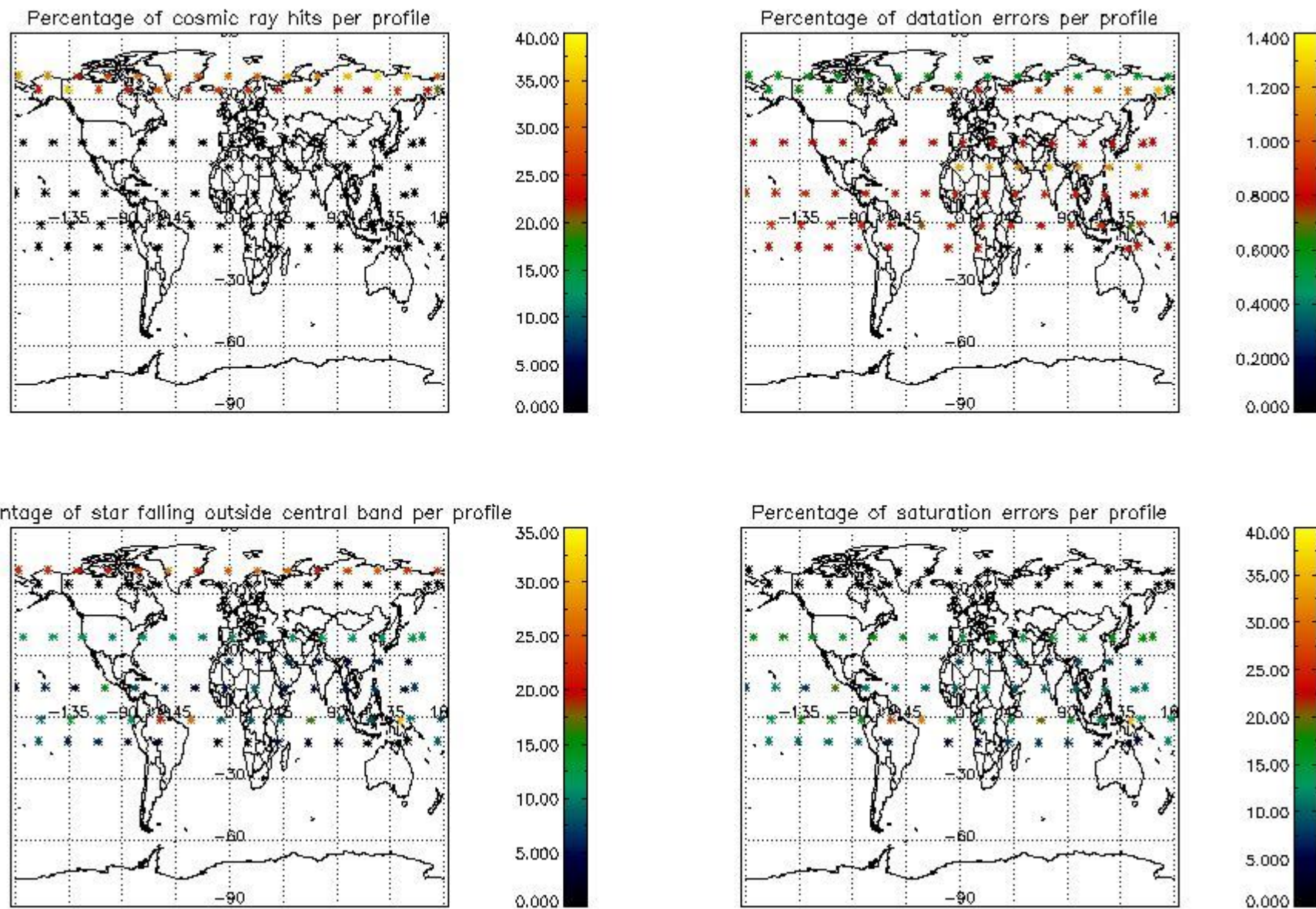
4.2 Plot quality information per product coming from level 1b processing (world map)

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



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





## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

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

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

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

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

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

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

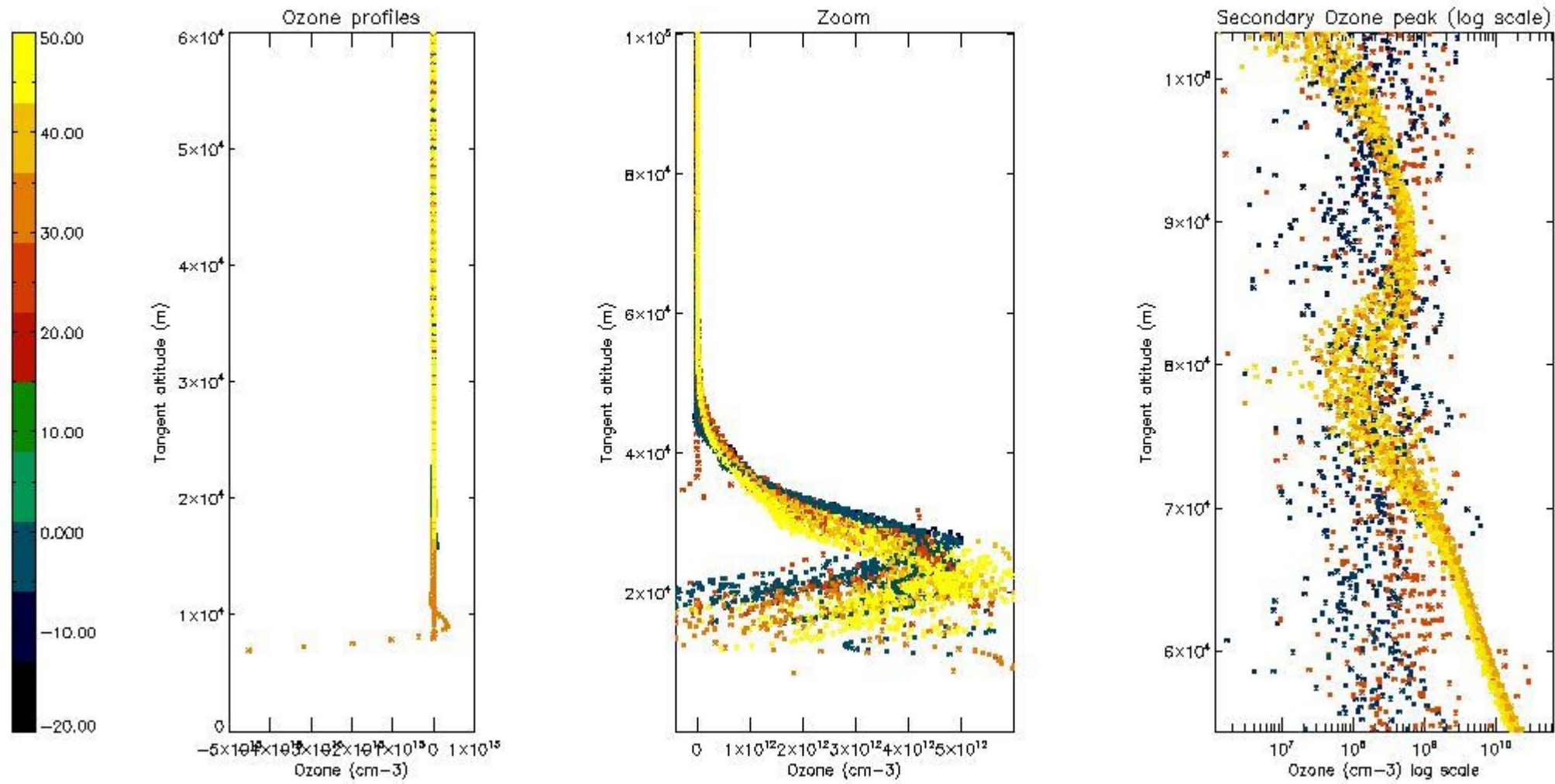
Criteria	% of total production
All STD	37
STD < 20	19



STD < 10	15
STD < 5	11

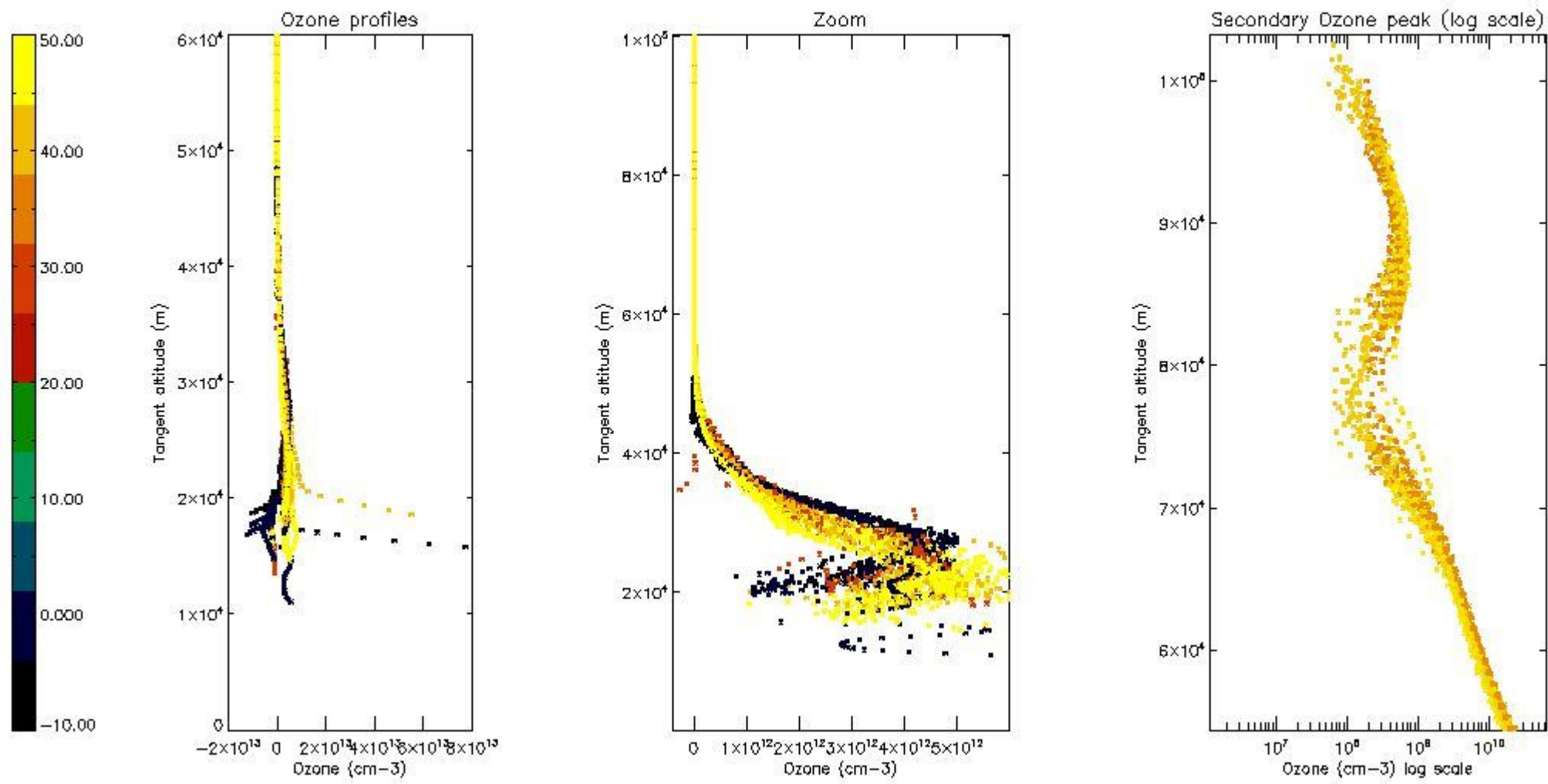
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



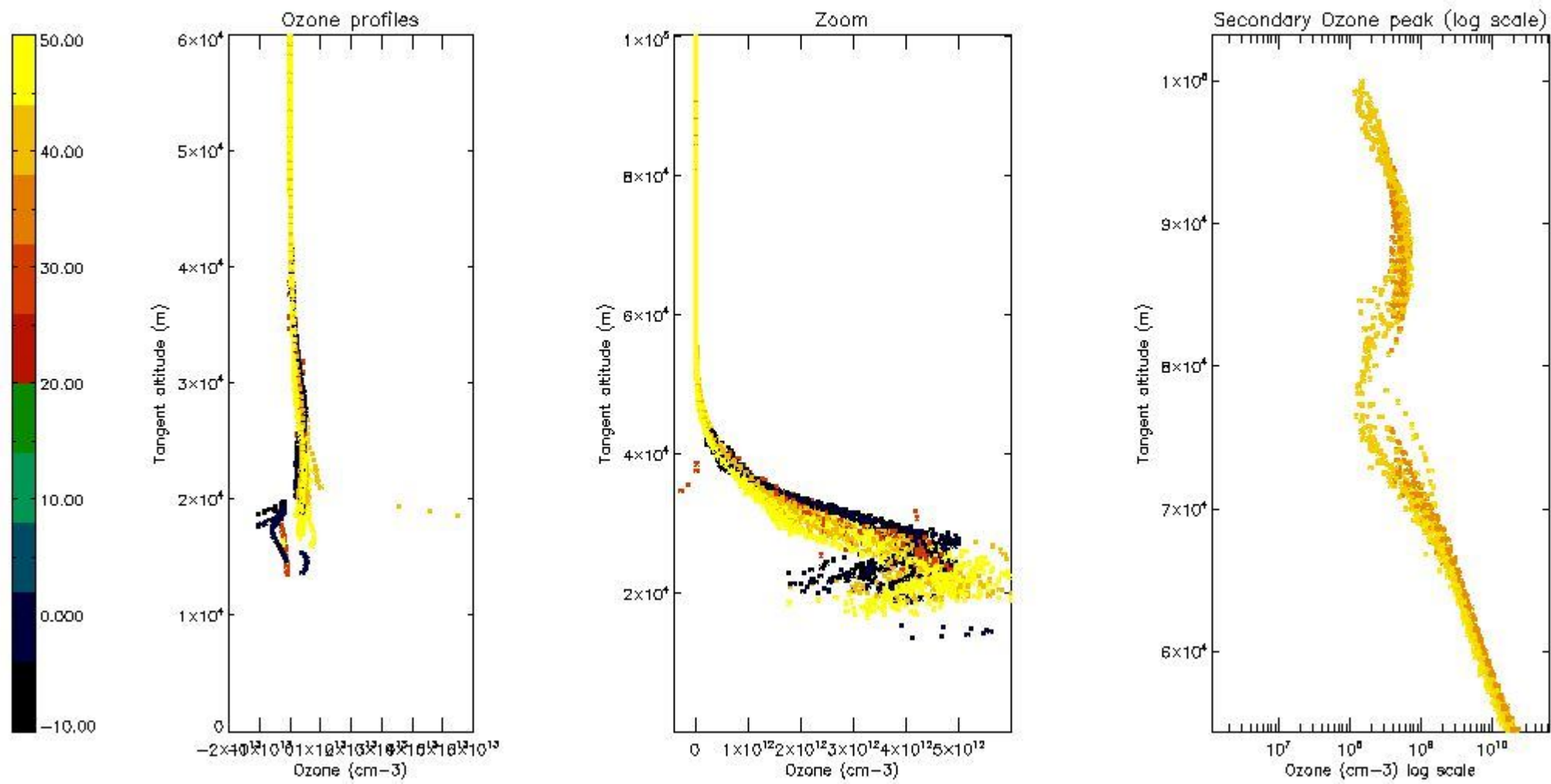
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



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

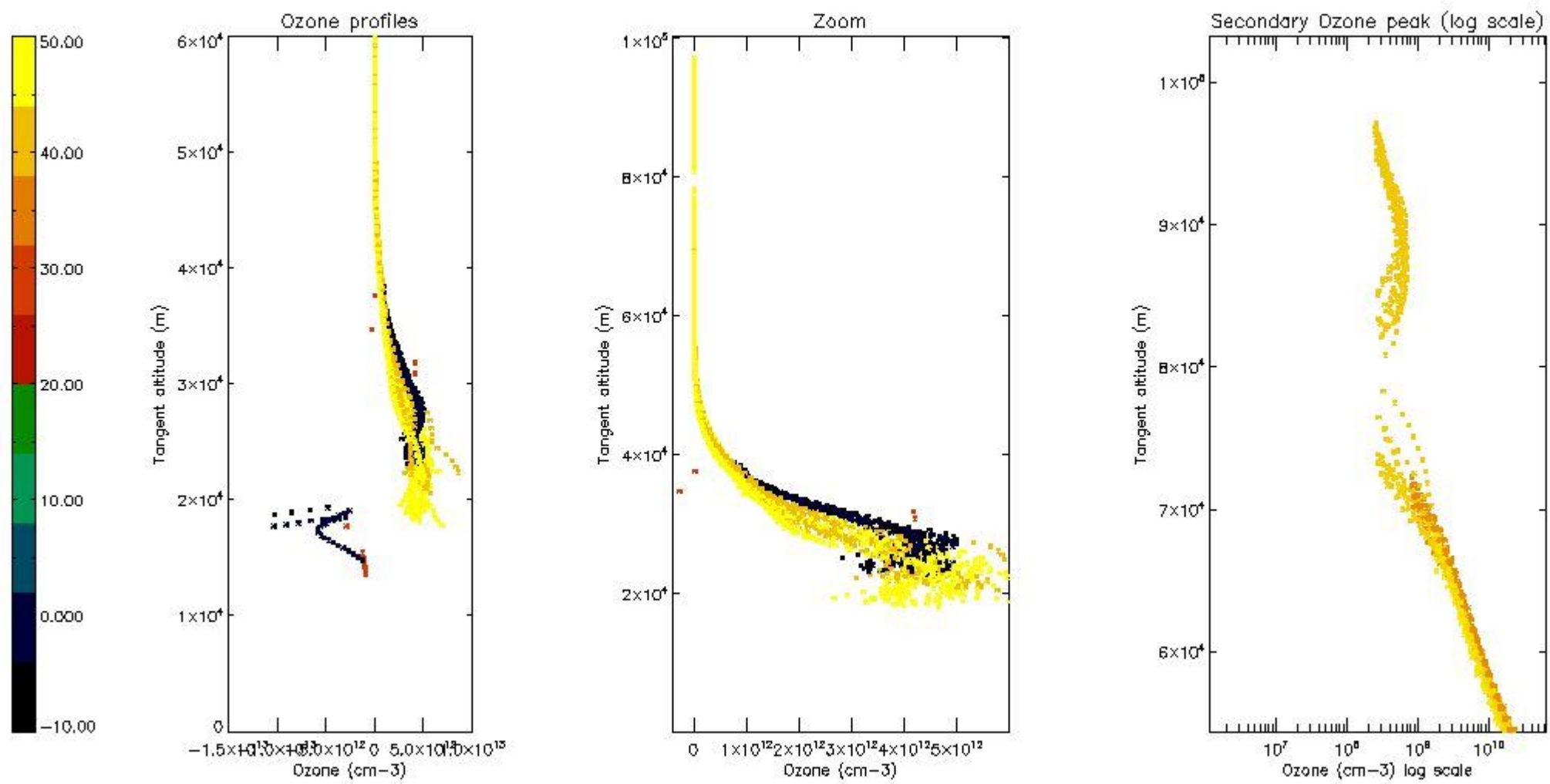
The colorbar represents the latitude.



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

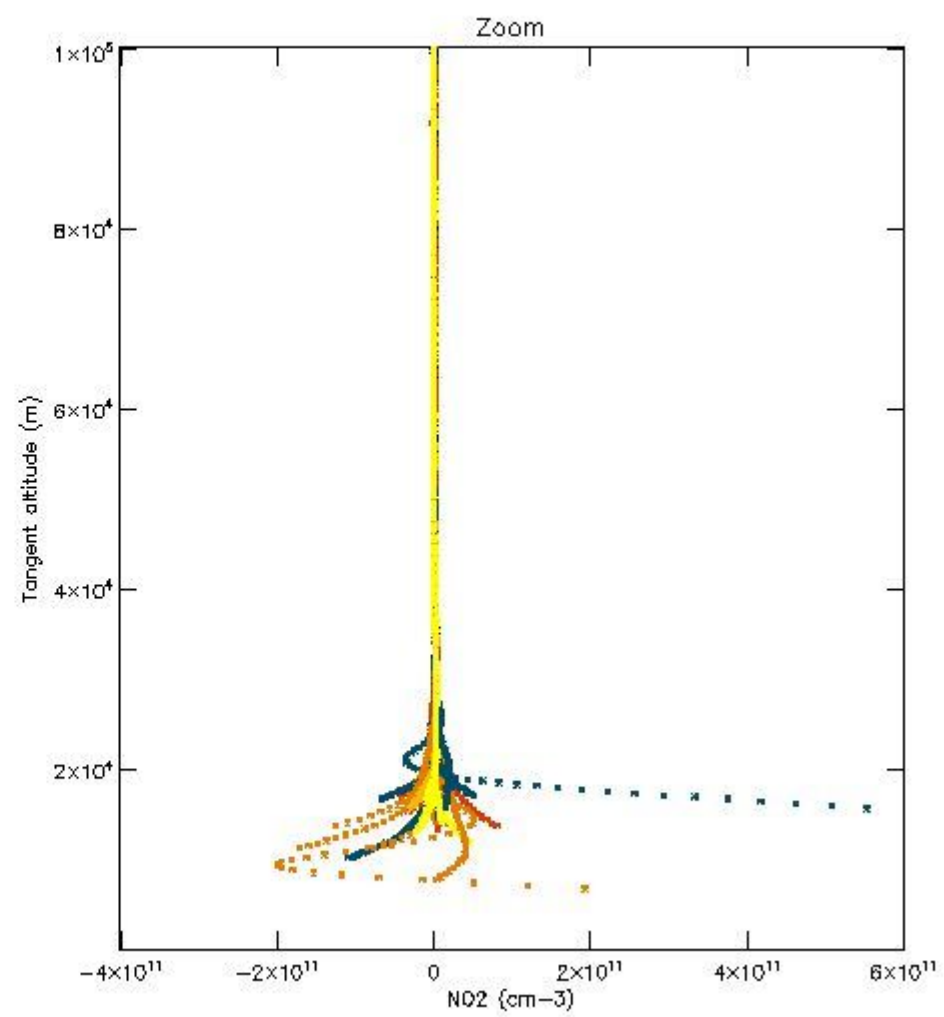
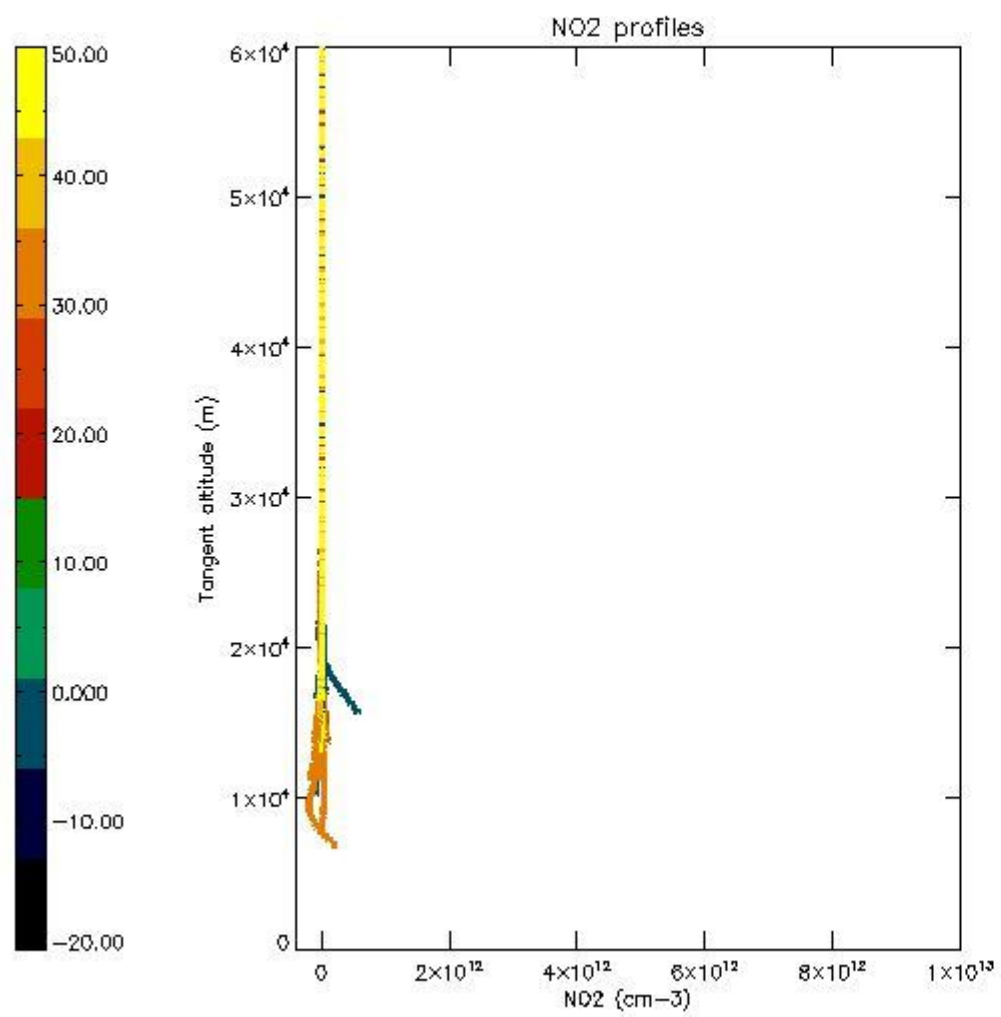
The colorbar represents the latitude.





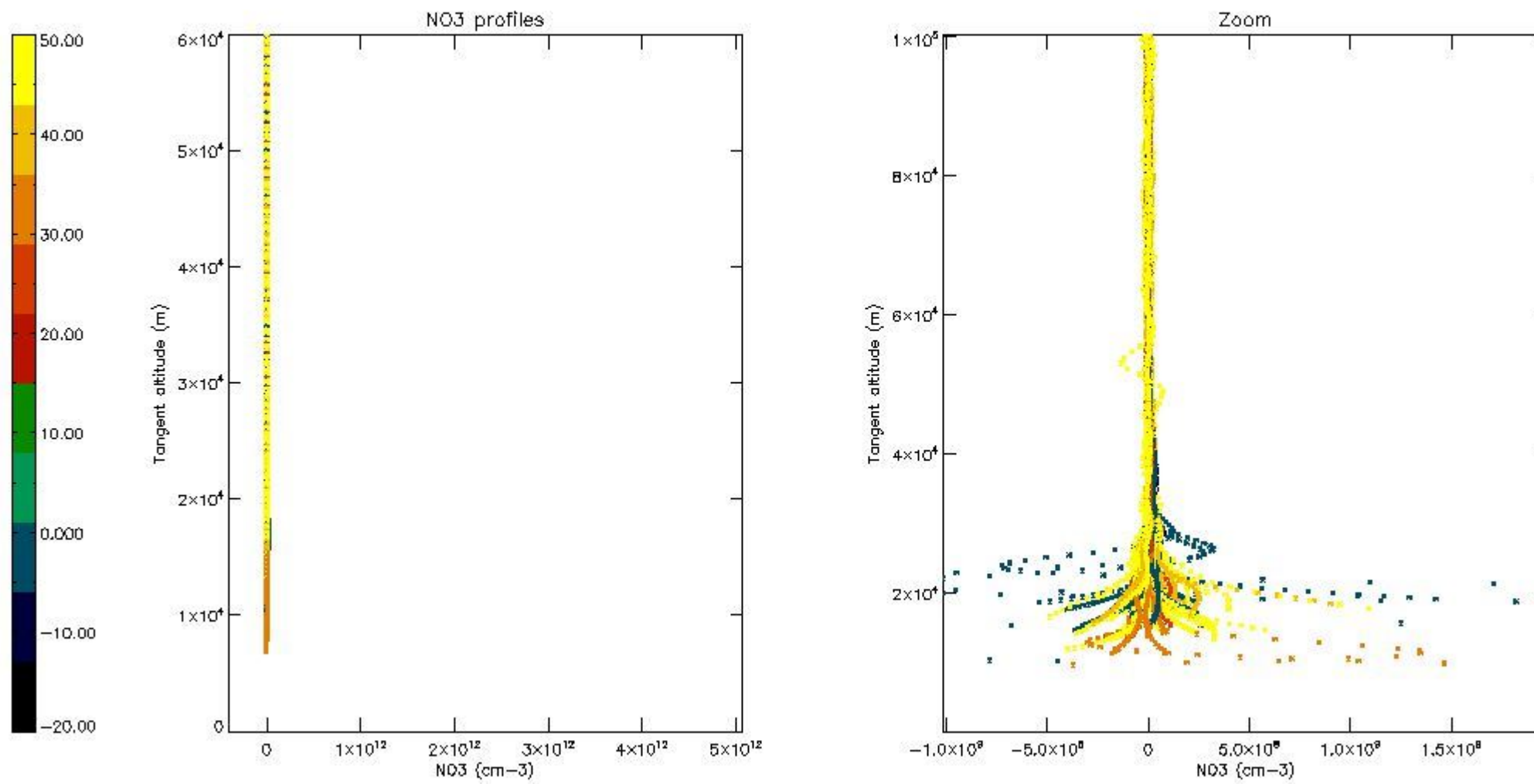
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

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	15-NOV-2008 00:04:15
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	15-NOV-2008 00:04:15
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	15-NOV-2008 00:04:15



# GOMOS Level 2 Daily Report

## SUMMARY

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### [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 \(world map\)](#)

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

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

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

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#### [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	25APR2013 22:11:20
Data source version	GOMOS/6.01
Start time of products	15-11-2008 (15NOV2008 00:00:00)
Stop time of products	16-11-2008 (16NOV2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	217
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__2PRFIN20081115_000415_000000862073_00460_35083_1799.N1	15-NOV-2008 00:04:15	Twilight	85.500	7	19Bet Ori	0.10000	14000.	171	35083	No
2	GOM_NL__2PRFIN20081115_000622_000000412073_00460_35083_1800.N1	15-NOV-2008 00:06:22	Twilight	41.000	125	44Iot Ori	2.7700	30000.	82	35083	No
3	GOM_NL__2PRFIN20081115_001344_000000642073_00460_35083_1801.N1	15-NOV-2008 00:13:44	Bright	63.500	13	87Alp Tau	0.86700	3800.0	127	35083	No
4	GOM_NL__2PRFIN20081115_001658_000000432073_00460_35083_1802.N1	15-NOV-2008 00:16:58	Bright	43.000	150	44Zet Per	2.8900	28000.	86	35083	No
5	GOM_NL__2PRFIN20081115_002042_000000592073_00460_35083_1803.N1	15-NOV-2008 00:20:42	Bright	59.000	114	3Iot Aur	2.6930	4600.0	118	35083	No
6	GOM_NL__2PRFIN20081115_002459_000000752073_00460_35083_1804.N1	15-NOV-2008 00:24:59	Bright	75.000	6	13Alp Aur	0.080000	3400.0	150	35083	No
7	GOM_NL__2PRFIN20081115_002803_000000602073_00460_35083_1805.N1	15-NOV-2008 00:28:03	Bright	59.500	42	34Bet Aur	1.9000	10200.	119	35083	No
8	GOM_NL__2PRFIN20081115_005457_000000892073_00460_35083_1806.N1	15-NOV-2008 00:54:57	Twilight	89.000	166	17Eps Leo	2.9800	6000.0	178	35083	No
9	GOM_NL__2PRFIN20081115_005944_000000852073_00460_35083_1807.N1	15-NOV-2008 00:59:44	Twilight	84.500	22	32Alp Leo	1.3600	15200.	169	35083	No
10	GOM_NL__2PRFIN20081115_011252_000001082073_00460_35083_1808.N1	15-NOV-2008 01:12:52	Dark	108.00	48	30Alp Hya	1.9770	4100.0	216	35083	No
11	GOM_NL__2PRFIN20081115_012623_000000662073_00461_35084_1807.N1	15-NOV-2008 01:26:23	Dark	65.500	117	Pi Pup	2.7060	3800.0	131	35084	No
12	GOM_NL__2PRFIN20081115_012809_000000802073_00461_35084_1808.N1	15-NOV-2008 01:28:09	Dark	80.000	88	31Eta CMa	2.4480	20000.	160	35084	No
13	GOM_NL__2PRFIN20081115_013026_000000772073_00461_35084_1809.N1	15-NOV-2008 01:30:26	Dark	76.500	23	21Eps CMa	1.5020	26000.	153	35084	No
14	GOM_NL__2PRFIN20081115_013250_000000532073_00461_35084_1810.N1	15-NOV-2008 01:32:50	Dark	53.000	108	Alp Col	2.6520	15200.	106	35084	No
15	GOM_NL__2PRFIN20081115_013905_000000342073_00461_35084_1811.N1	15-NOV-2008 01:39:05	Straylight	34.000	47	2Bet CMa	1.9760	28000.	68	35084	No
16	GOM_NL__2PRFIN20081115_014451_000000862073_00461_35084_1812.N1	15-NOV-2008 01:44:51	Twilight	86.000	7	19Bet Ori	0.10000	14000.	172	35084	No
17	GOM_NL__2PRFIN20081115_014657_000000482073_00461_35084_1813.N1	15-NOV-2008 01:46:57	Twilight	48.000	125	44Iot Ori	2.7700	30000.	96	35084	No
18	GOM_NL__2PRFIN20081115_015419_000000632073_00461_35084_1814.N1	15-NOV-2008 01:54:19	Bright	63.000	13	87Alp Tau	0.86700	3800.0	126	35084	No
19	GOM_NL__2PRFIN20081115_015734_000000452073_00461_35084_1815.N1	15-NOV-2008 01:57:34	Bright	44.500	150	44Zet Per	2.8900	28000.	89	35084	No
20	GOM_NL__2PRFIN20081115_020117_000000602073_00461_35084_1816.N1	15-NOV-2008 02:01:17	Bright	59.500	114	3Iot Aur	2.6930	4600.0	119	35084	No
21	GOM_NL__2PRFIN20081115_020534_000000562073_00461_35084_1817.N1	15-NOV-2008 02:05:34	Bright	55.500	6	13Alp Aur	0.080000	3400.0	111	35084	No
22	GOM_NL__2PRFIN20081115_020838_000000582073_00461_35084_1818.N1	15-NOV-2008 02:08:38	Bright	57.500	42	34Bet Aur	1.9000	10200.	115	35084	No
23	GOM_NL__2PRFIN20081115_023533_000000892073_00461_35084_1819.N1	15-NOV-2008 02:35:33	Twilight	88.500	166	17Eps Leo	2.9800	6000.0	177	35084	No
24	GOM_NL__2PRFIN20081115_024022_000000882073_00461_35084_1820.N1	15-NOV-2008 02:40:22	Twilight	87.500	22	32Alp Leo	1.3600	15200.	175	35084	No
25	GOM_NL__2PRFIN20081115_025331_000001172073_00461_35084_1821.N1	15-NOV-2008 02:53:31	Dark	116.50	48	30Alp Hya	1.9770	4100.0	233	35084	No
26	GOM_NL__2PRFIN20081115_030700_000000632073_00462_35085_1817.N1	15-NOV-2008 03:07:00	Dark	63.000	117	Pi Pup	2.7060	3800.0	126	35085	No
27	GOM_NL__2PRFIN20081115_030846_000000782073_00462_35085_1818.N1	15-NOV-2008 03:08:46	Dark	78.000	88	31Eta CMa	2.4480	20000.	156	35085	No
28	GOM_NL__2PRFIN20081115_031103_000000822073_00462_35085_1819.N1	15-NOV-2008 03:11:03	Dark	82.000	23	21Eps CMa	1.5020	26000.	164	35085	No
29	GOM_NL__2PRFIN20081115_031326_000000512073_00462_35085_1820.N1	15-NOV-2008 03:13:26	Dark	51.000	108	Alp Col	2.6520	15200.	102	35085	No
30	GOM_NL__2PRFIN20081115_031941_000000342073_00462_35085_1821.N1	15-NOV-2008 03:19:41	Straylight	34.000	47	2Bet CMa	1.9760	28000.	68	35085	No
31	GOM_NL__2PRFIN20081115_032526_000000892073_00462_35085_1822.N1	15-NOV-2008 03:25:26	Twilight	88.500	7	19Bet Ori	0.10000	14000.	177	35085	No
32	GOM_NL__2PRFIN20081115_032732_000000482073_00462_35085_1823.N1	15-NOV-2008 03:27:32	Twilight	48.000	125	44Iot Ori	2.7700	30000.	96	35085	No
33	GOM_NL__2PRFIN20081115_033454_000000622073_00462_35085_1824.N1	15-NOV-2008 03:34:54	Bright	62.000	13	87Alp Tau	0.86700	3800.0	124	35085	No
34	GOM_NL__2PRFIN20081115_033809_000000442073_00462_35085_1825.N1	15-NOV-2008 03:38:09	Bright	44.000	150	44Zet Per	2.8900	28000.	88	35085	No
35	GOM_NL__2PRFIN20081115_034152_000000592073_00462_35085_1826.N1	15-NOV-2008 03:41:52	Bright	59.000	114	3Iot Aur	2.6930	4600.0	118	35085	No
36	GOM_NL__2PRFIN20081115_034609_000000572073_00462_35085_1827.N1	15-NOV-2008 03:46:09	Bright	57.000	6	13Alp Aur	0.080000	3400.0	114	35085	No
37	GOM_NL__2PRFIN20081115_034913_000000612073_00462_35085_1828.N1	15-NOV-2008 03:49:13	Bright	61.000	42	34Bet Aur	1.9000	10200.	122	35085	No
38	GOM_NL__2PRFIN20081115_041610_000000932073_00462_35085_1829.N1	15-NOV-2008 04:16:10	Twilight	92.500	166	17Eps Leo	2.9800	6000.0	185	35085	No
39	GOM_NL__2PRFIN20081115_042059_000000832073_00462_35085_1830.N1	15-NOV-2008 04:20:59	Twilight	82.500	22	32Alp Leo	1.3600	15200.	165	35085	No
40	GOM_NL__2PRFIN20081115_043410_000001102073_00462_35085_1831.N1	15-NOV-2008 04:34:10	Dark	110.00	48	30Alp Hya	1.9770	4100.0	220	35085	No
41	GOM_NL__2PRFIN20081115_044737_000000662073_00463_35086_1837.N1	15-NOV-2008 04:47:37	Dark	66.000	117	Pi Pup	2.7060	3800.0	132	35086	No
42	GOM_NL__2PRFIN20081115_044924_000000782073_00463_35086_1838.N1	15-NOV-2008 04:49:24	Dark	77.500	88	31Eta CMa	2.4480	20000.	155	35086	No





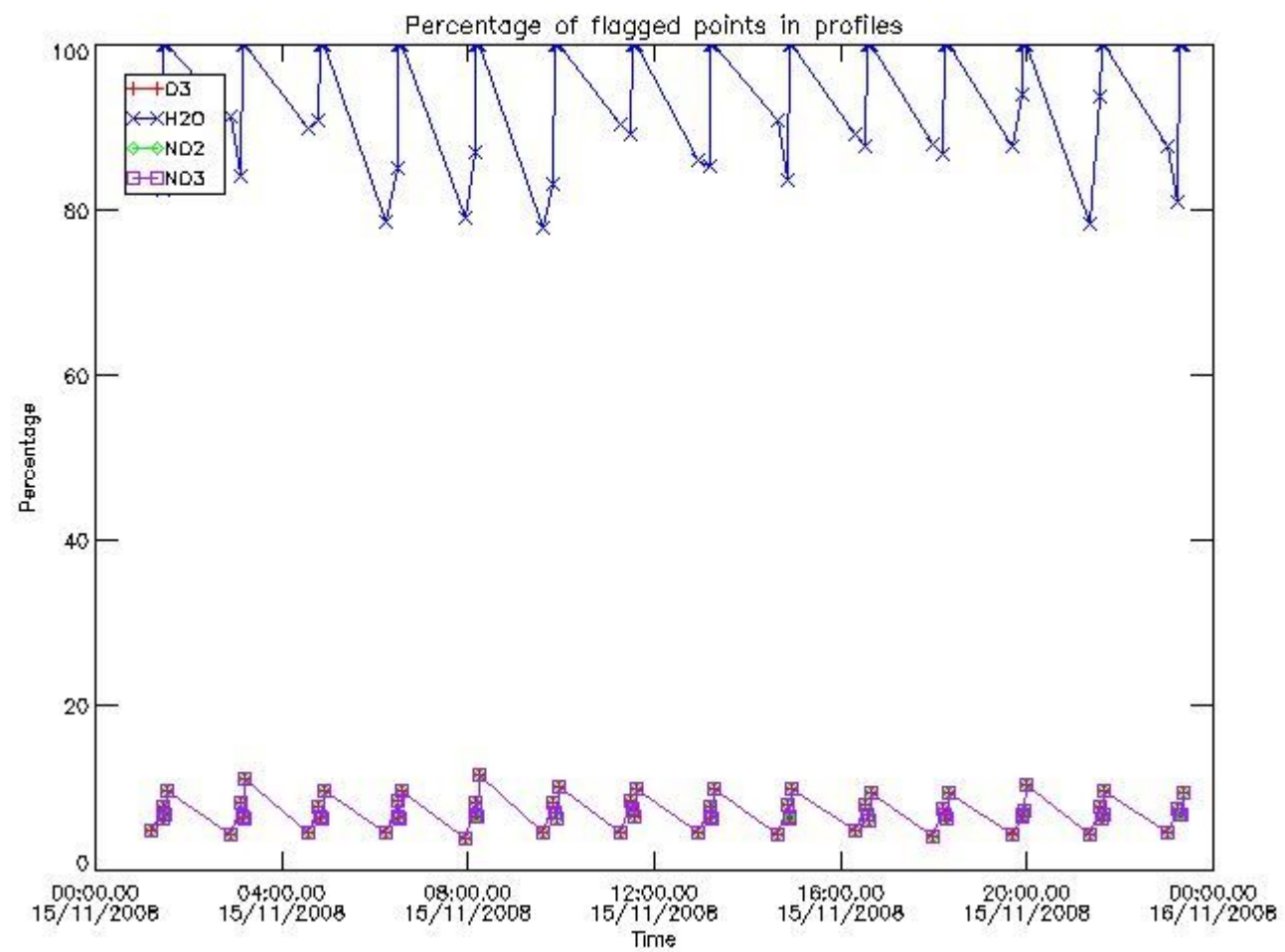




### 3. Quality information per product

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

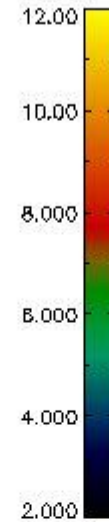
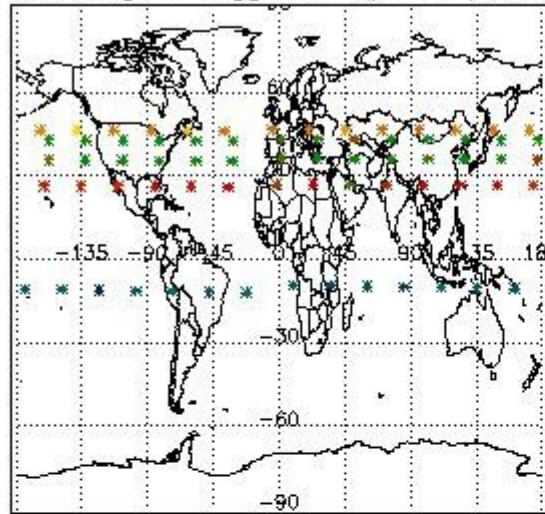
#### 3.1 Plot quality information per product (time dependant)



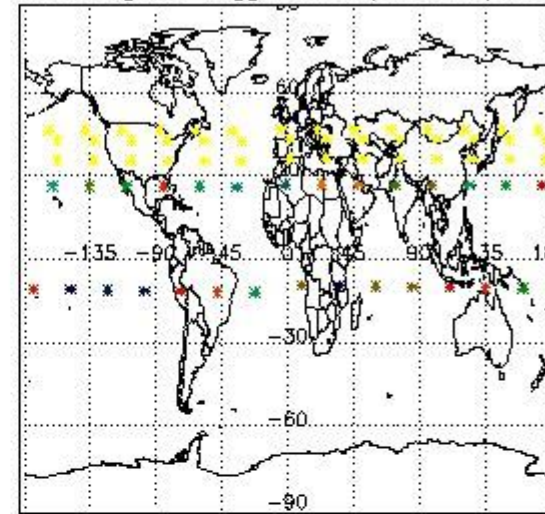
#### 3.2 Plot quality information per product (world map)



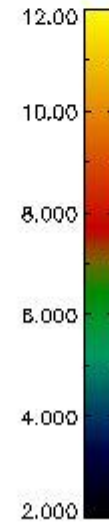
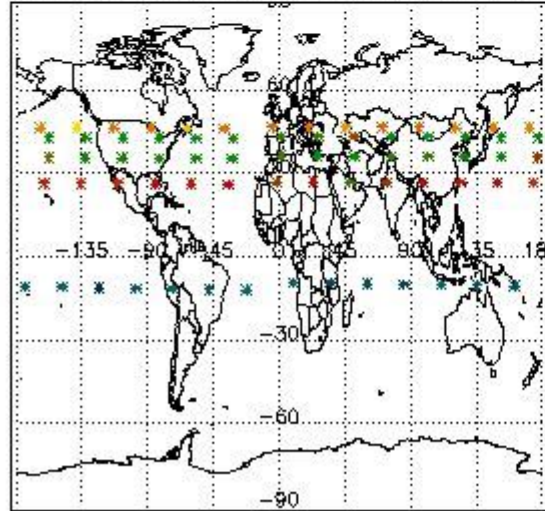
Percentage of flagged data per O3 profile



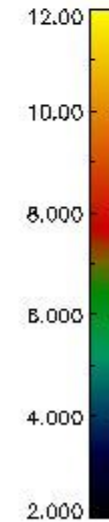
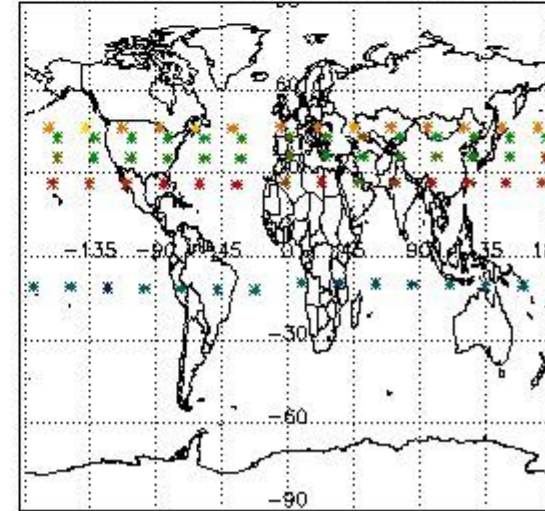
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

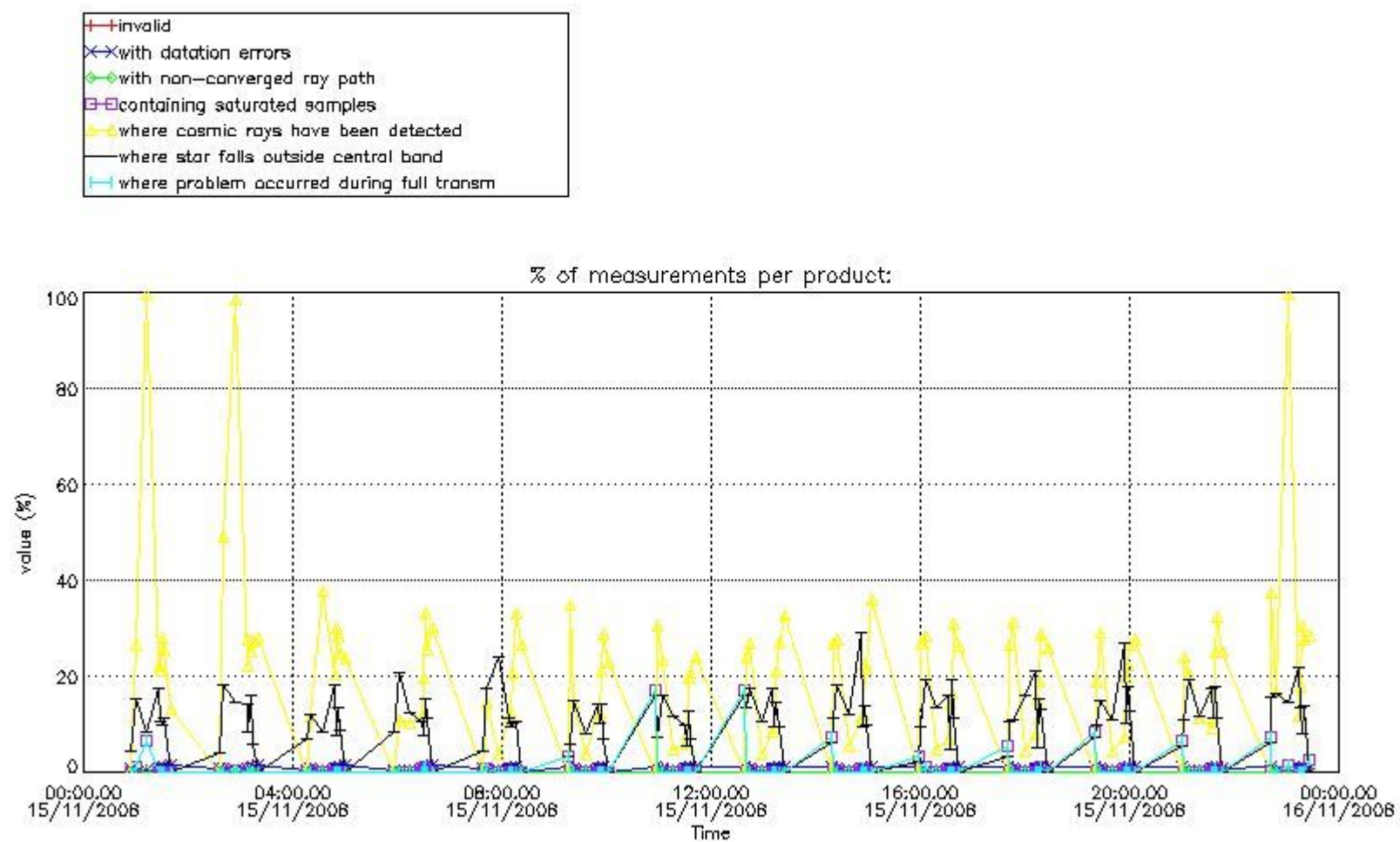


#### 4. Level 1 quality information per product

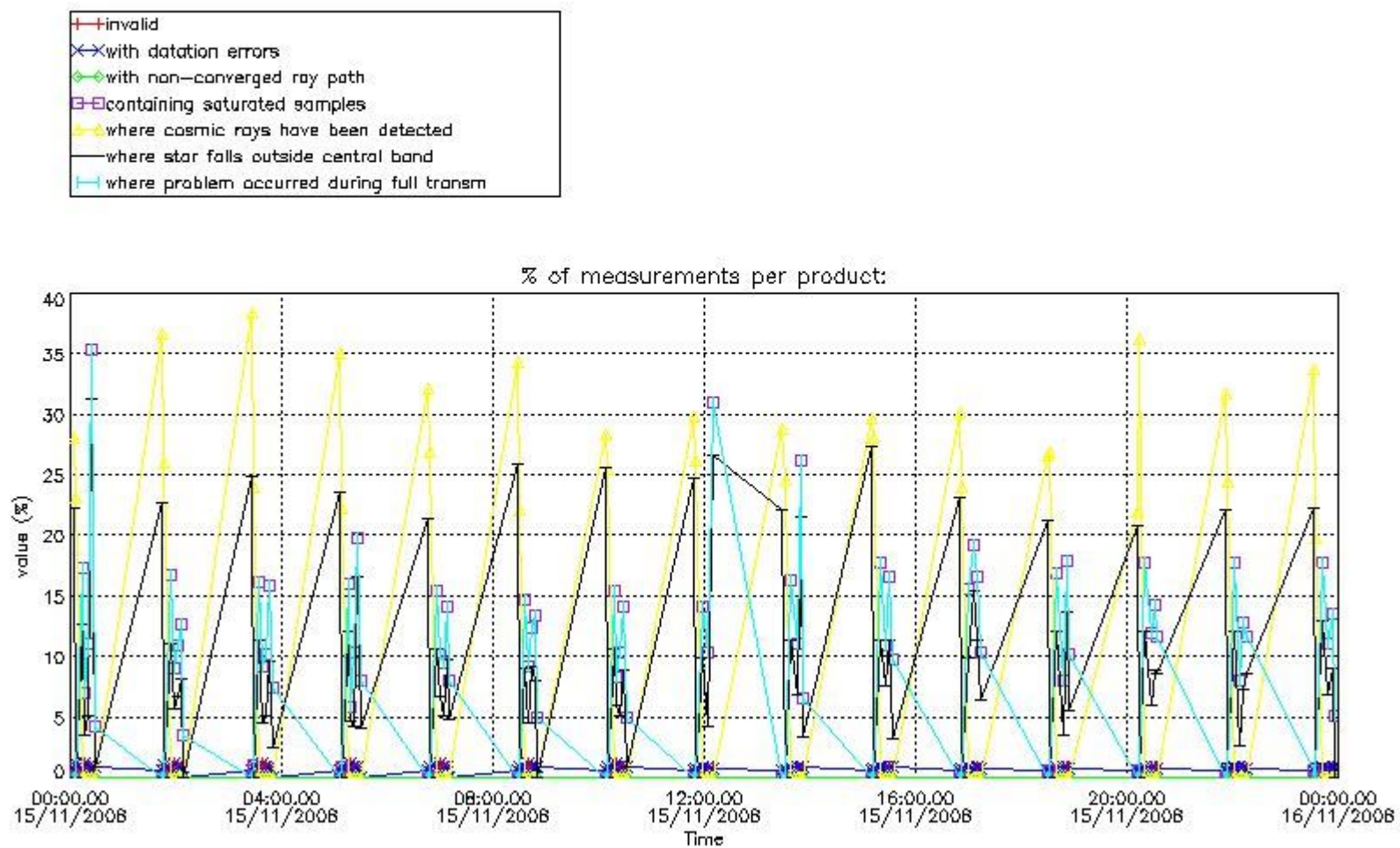
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



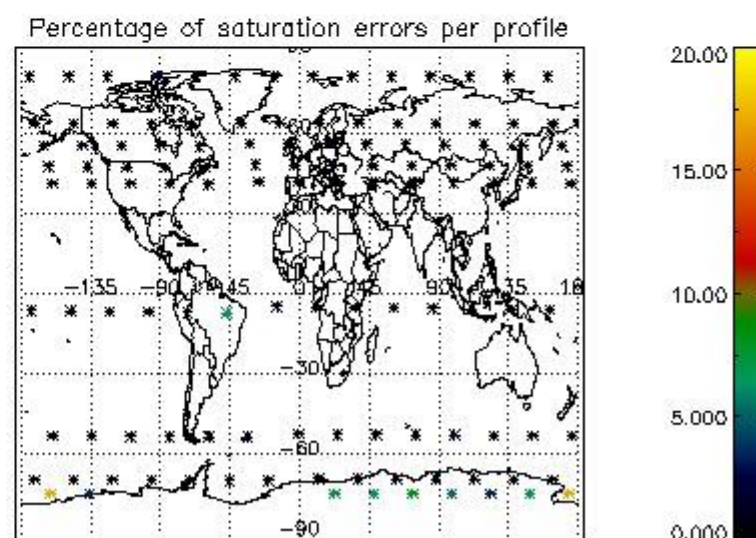
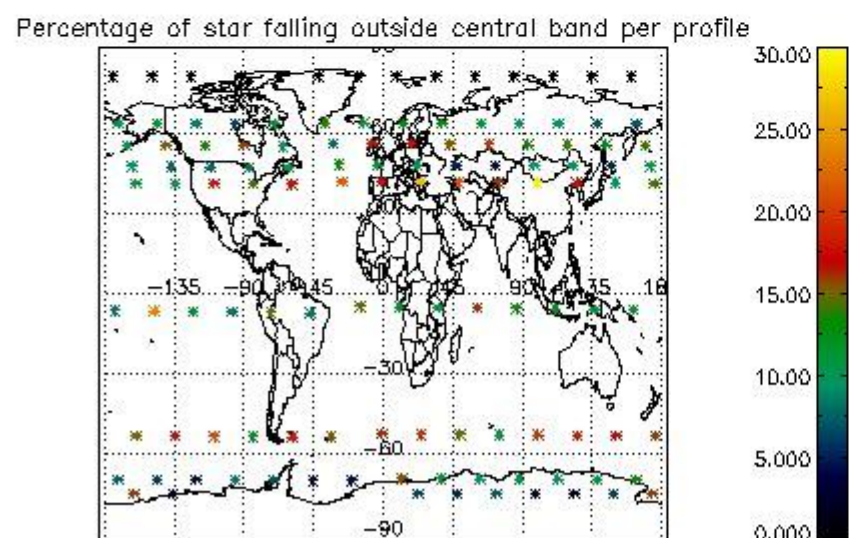
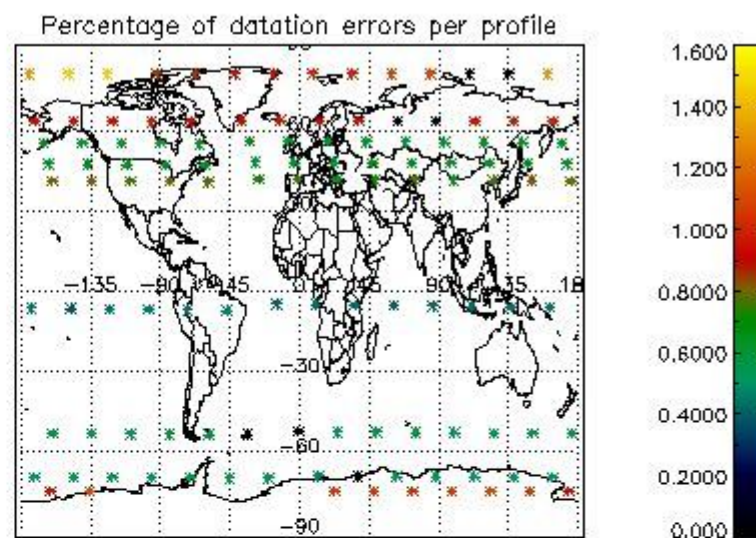
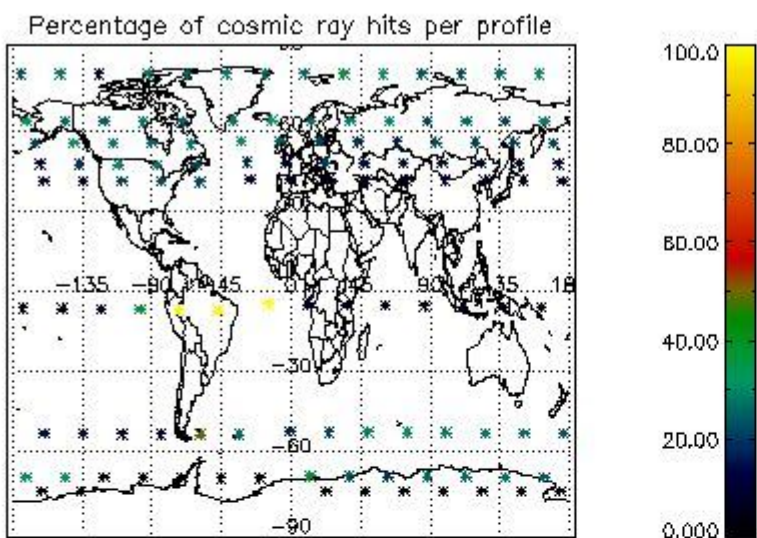
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



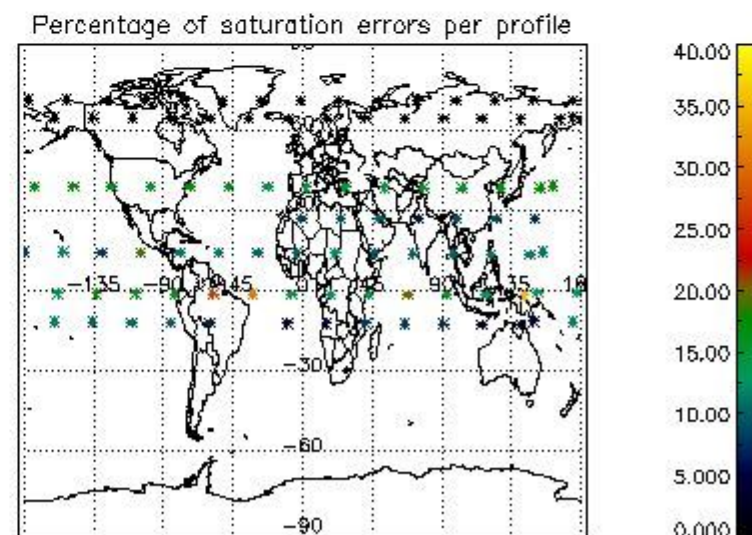
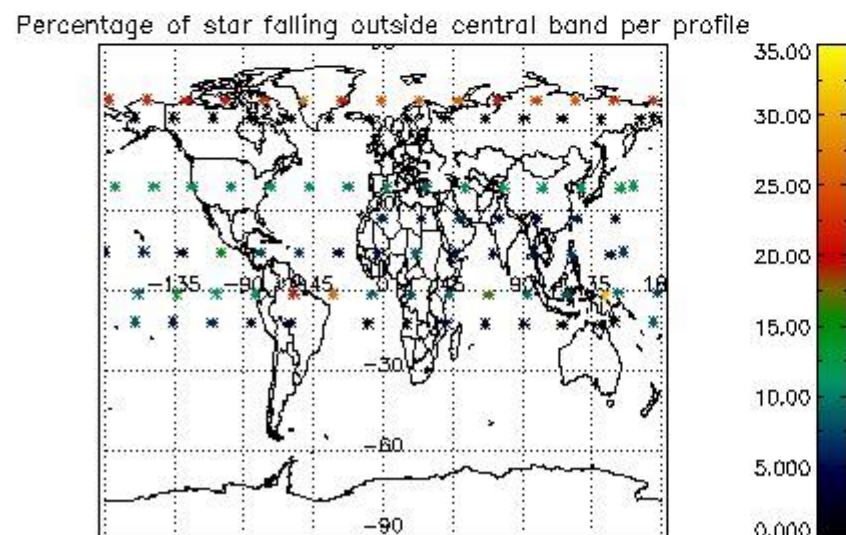
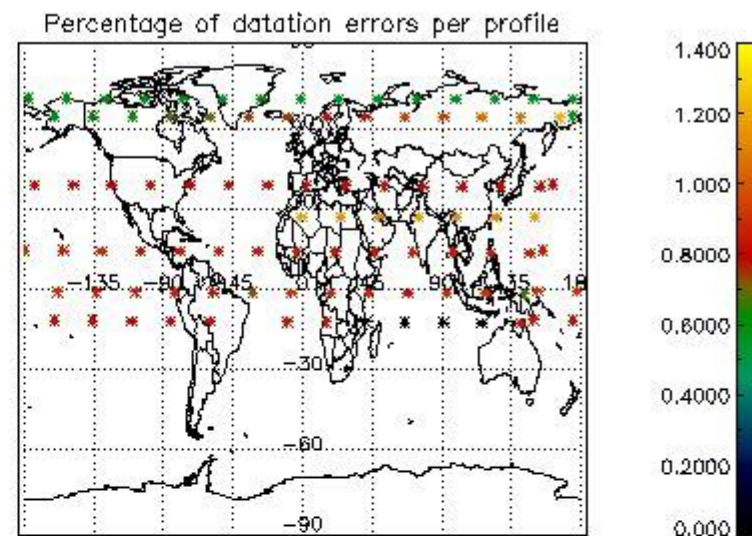
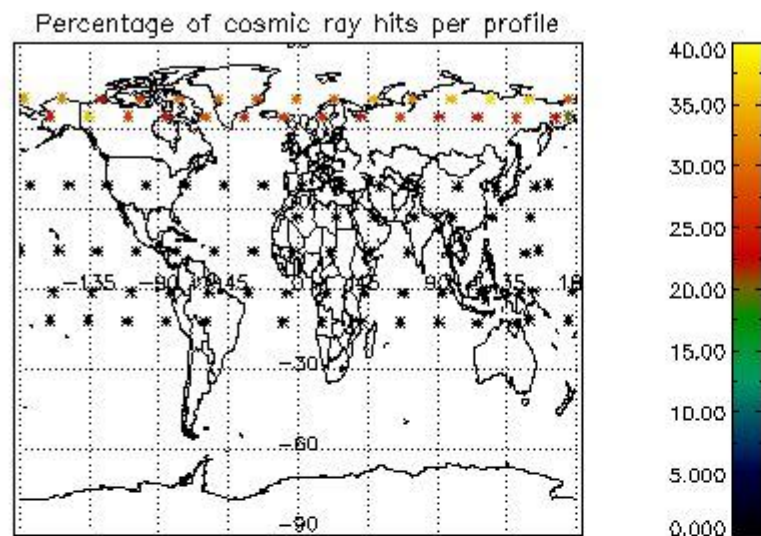
4.2 Plot quality information per product coming from level 1b processing (world map)

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





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



## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

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

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

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

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

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

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

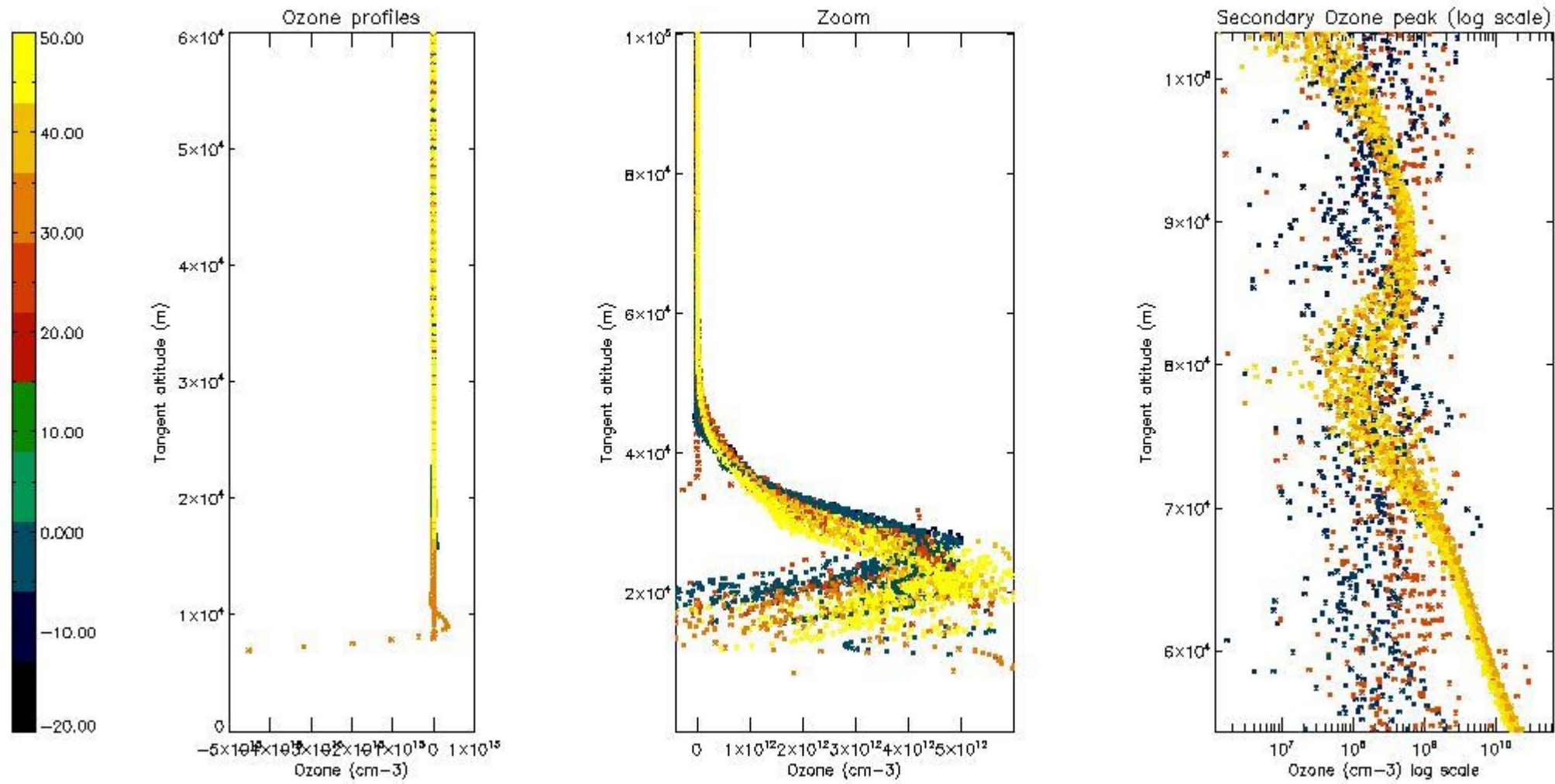
Criteria	% of total production
All STD	37
STD < 20	19



STD < 10	15
STD < 5	11

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

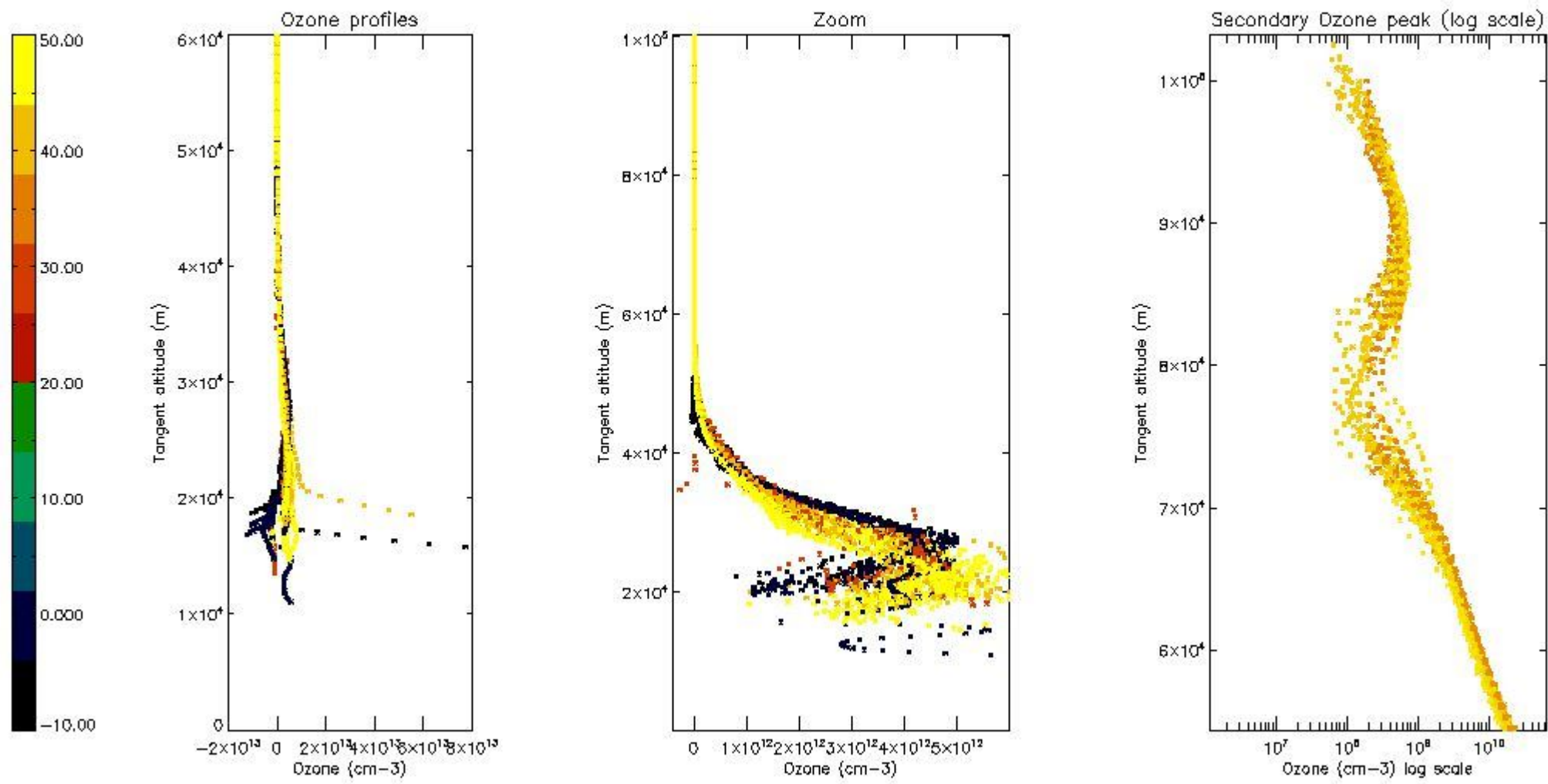
The colorbar represents the latitude.



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

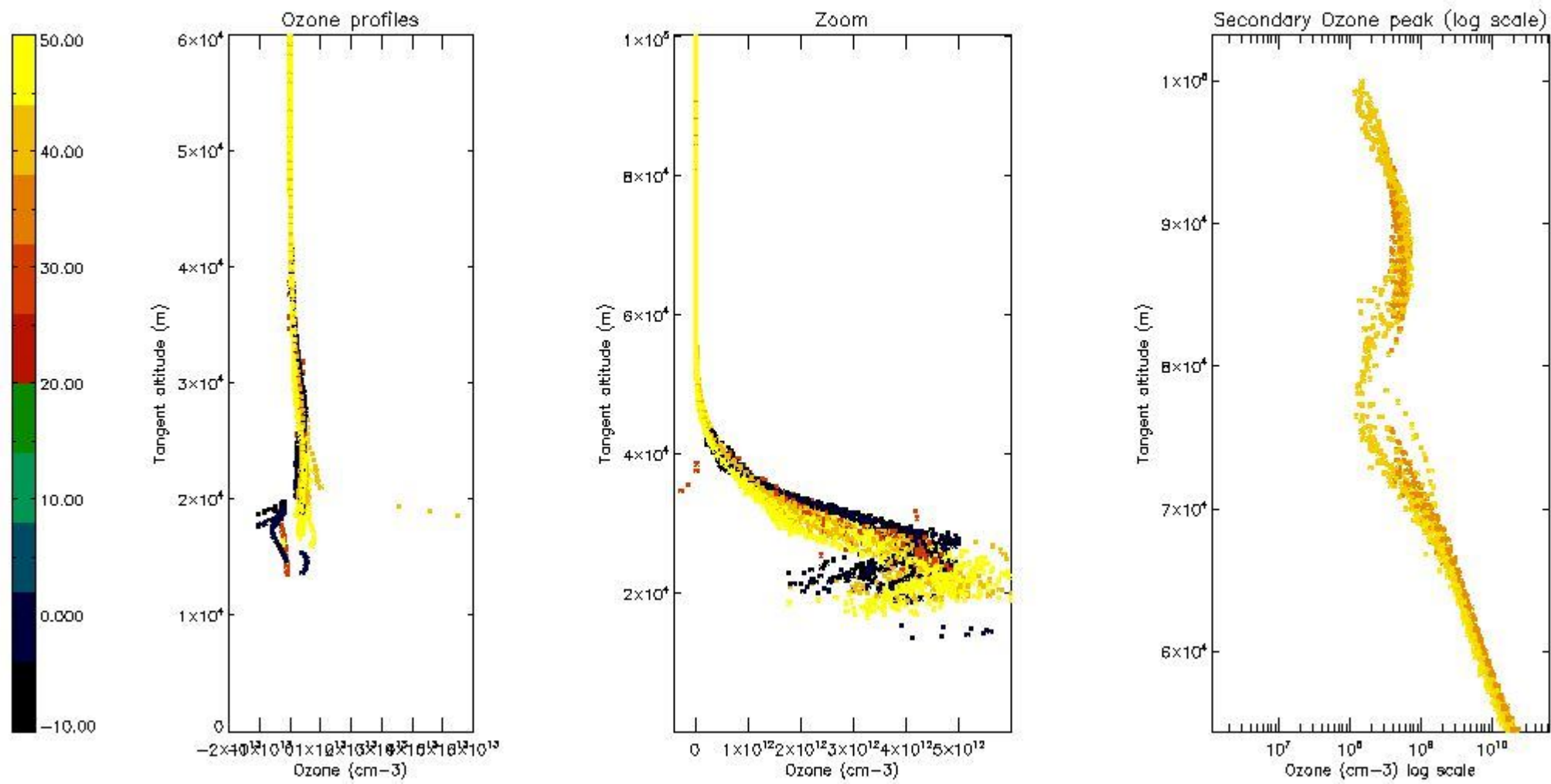
The colorbar represents the latitude.





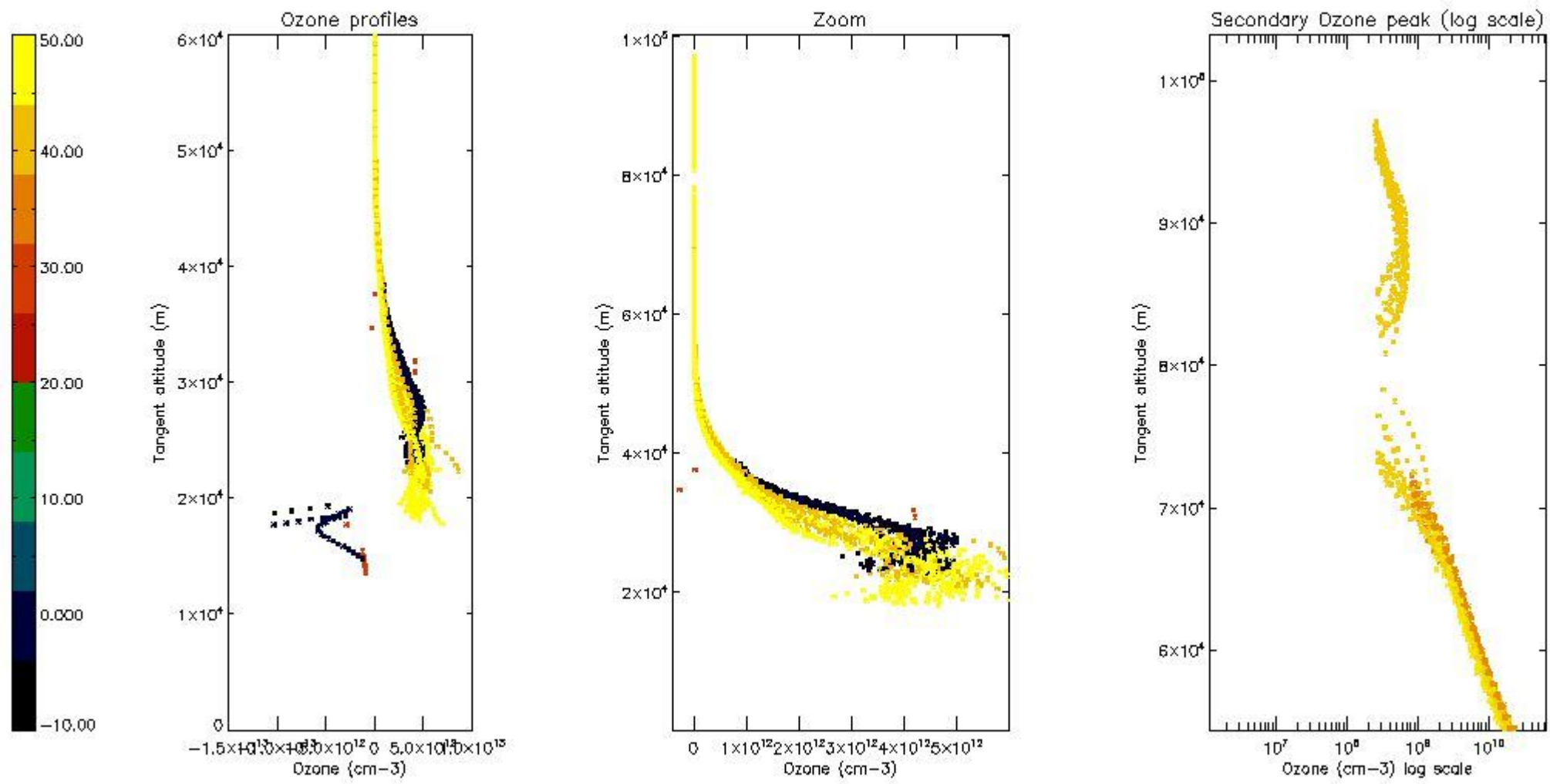
5.4 Plot ozone profiles where  $STD < 10\%$  (dark without errors)

The colorbar represents the latitude.



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

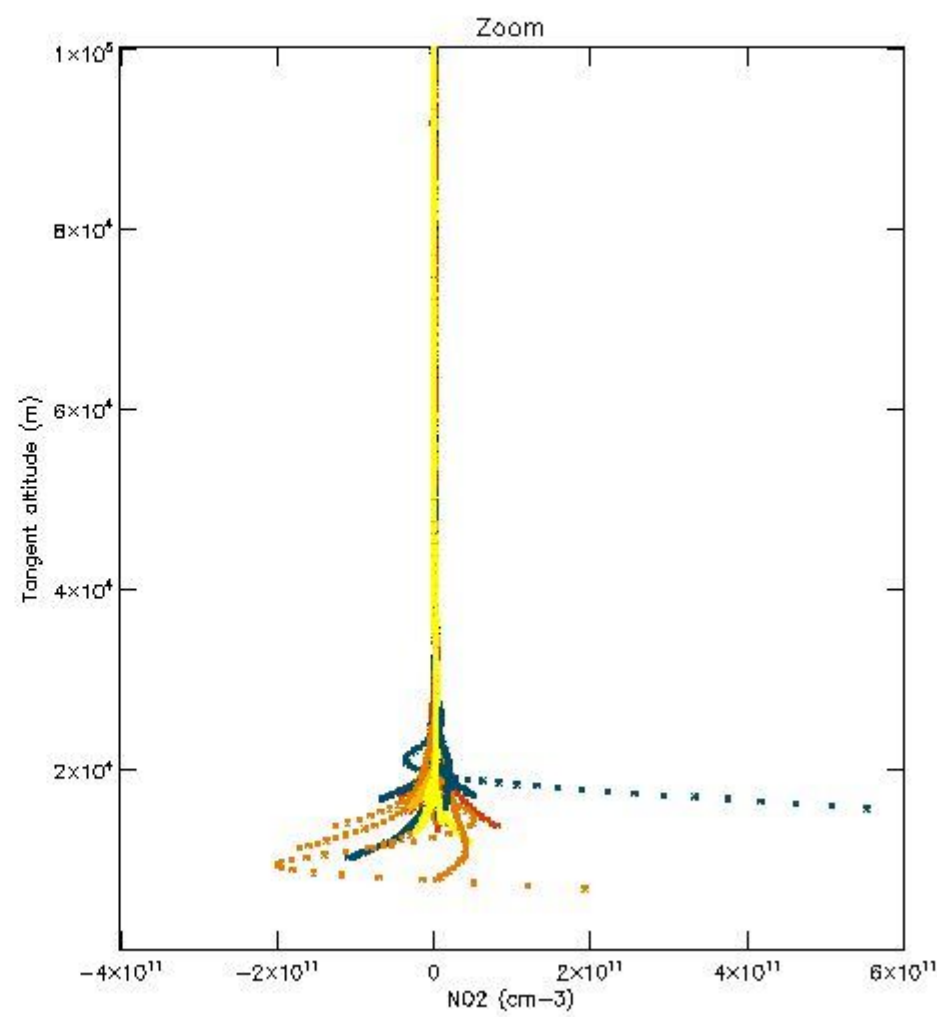
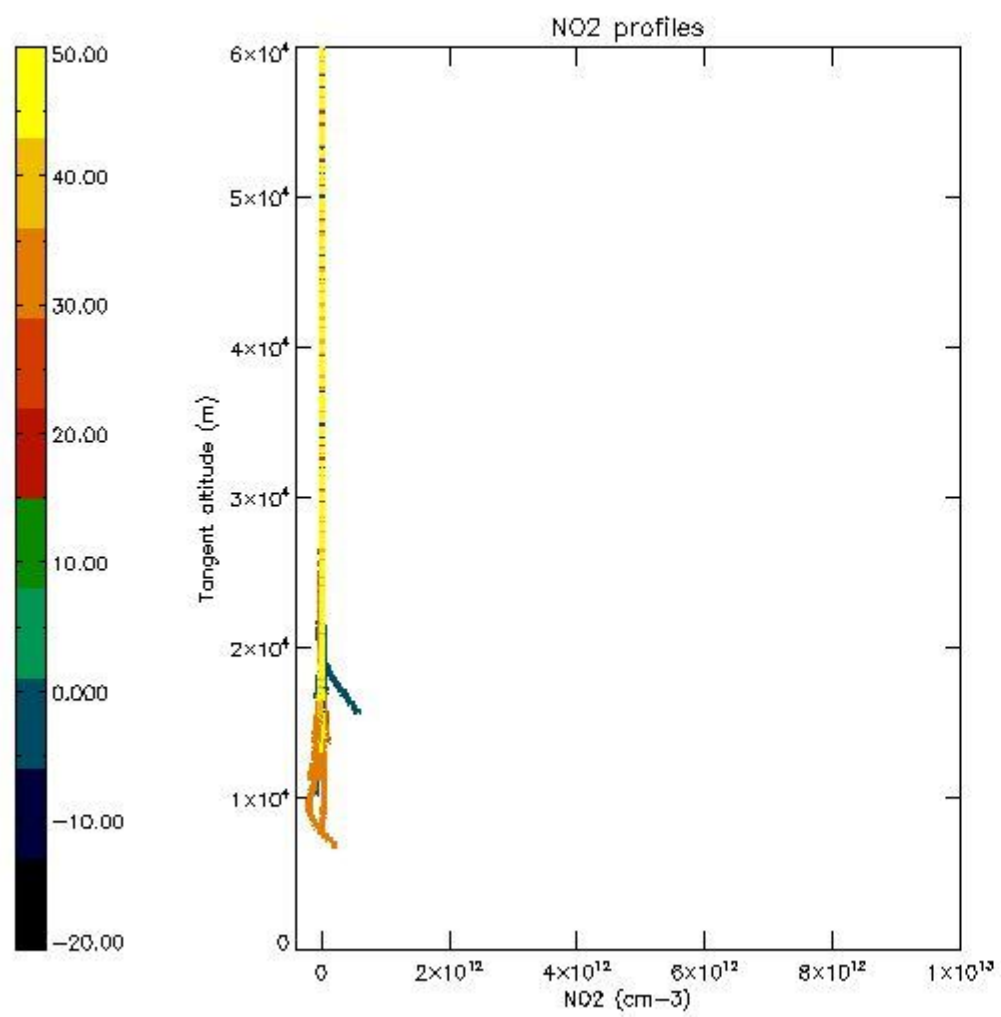
The colorbar represents the latitude.



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

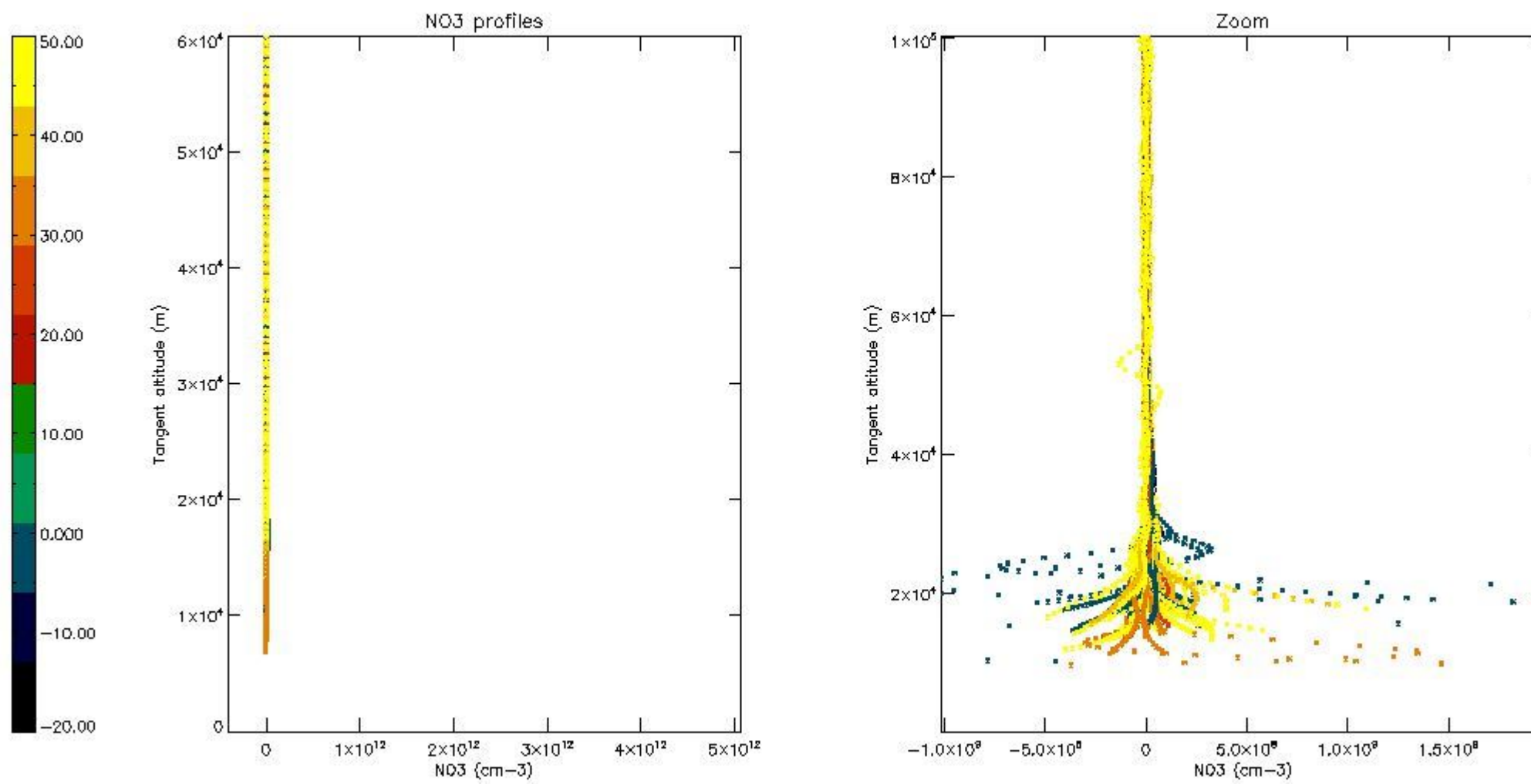
The colorbar represents the latitude.





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

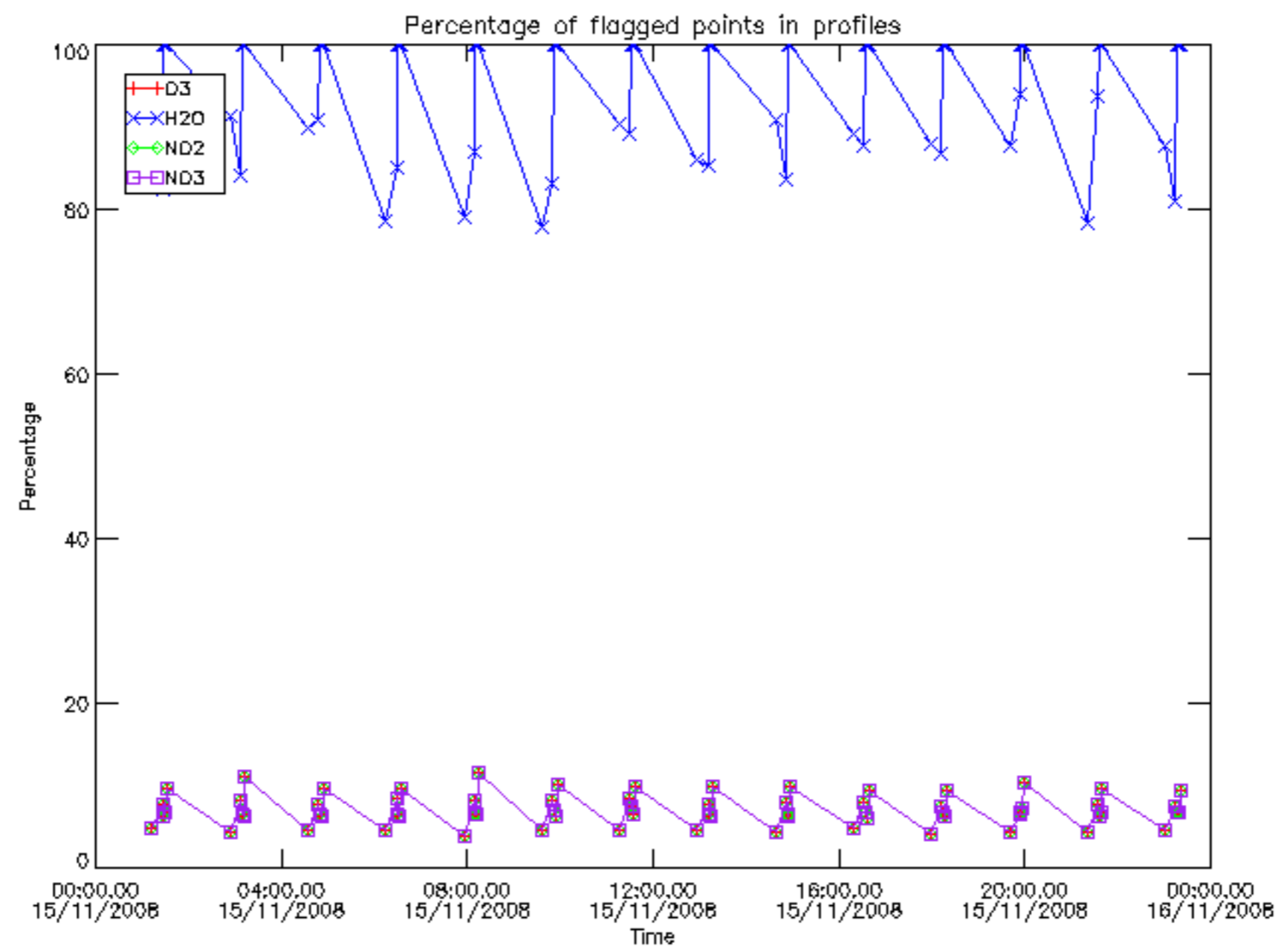
The colorbar represents the latitude.



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

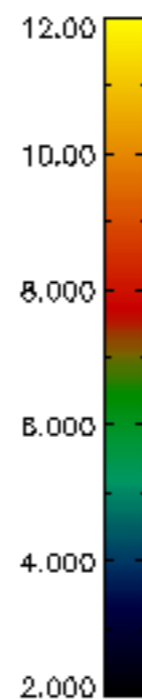
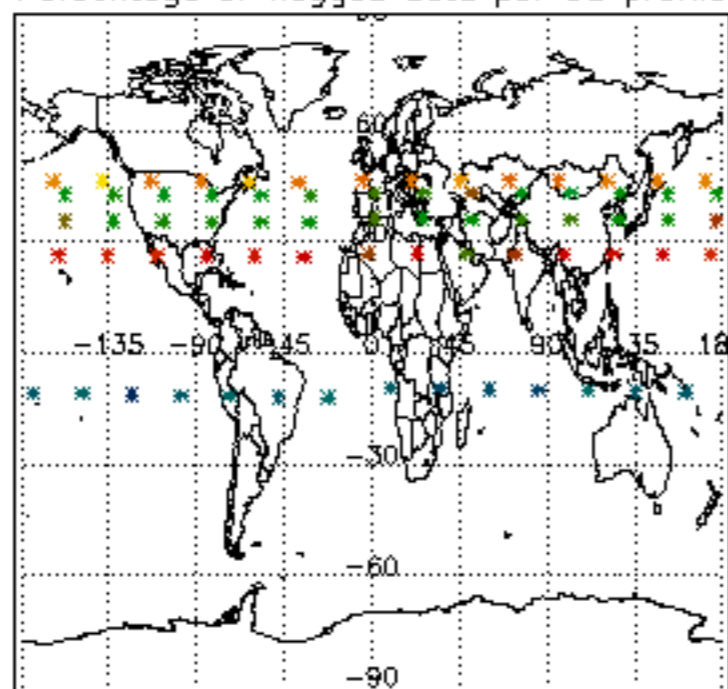
The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	15-NOV-2008 00:04:15
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	15-NOV-2008 00:04:15
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	15-NOV-2008 00:04:15

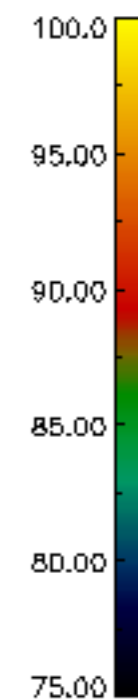
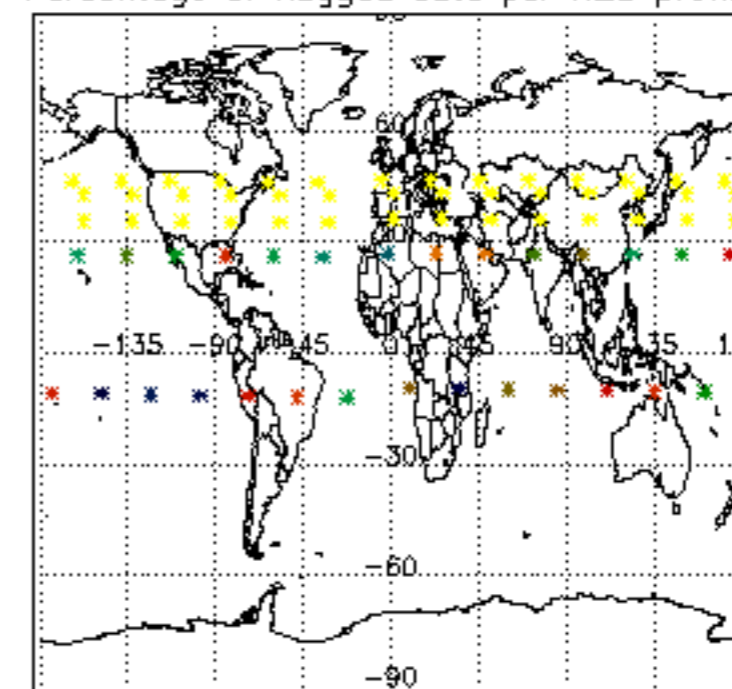




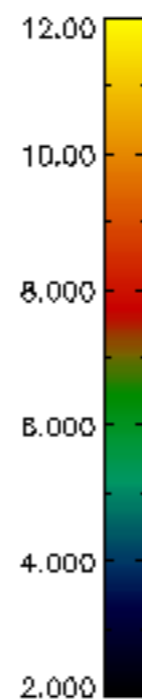
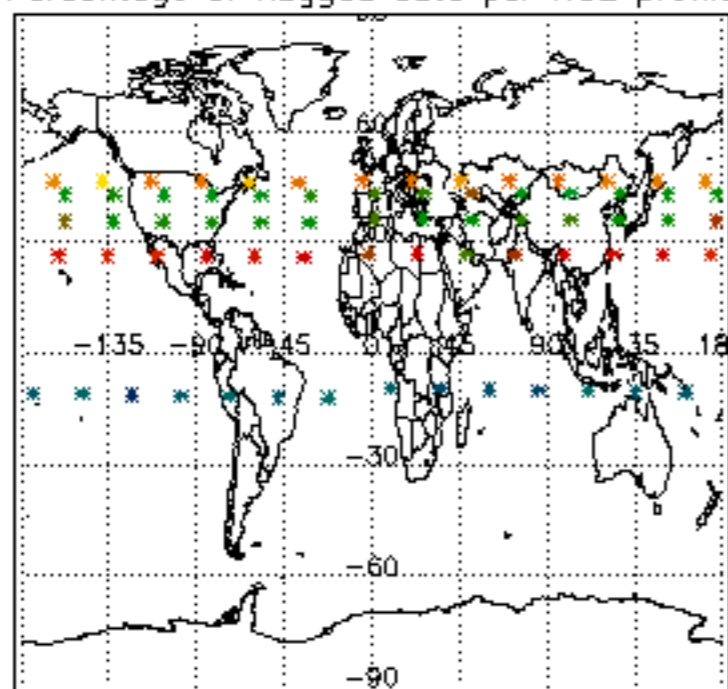
Percentage of flagged data per D3 profile



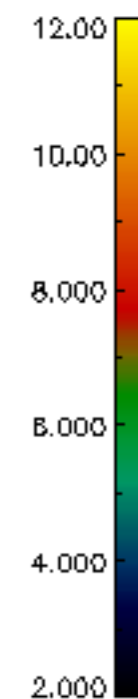
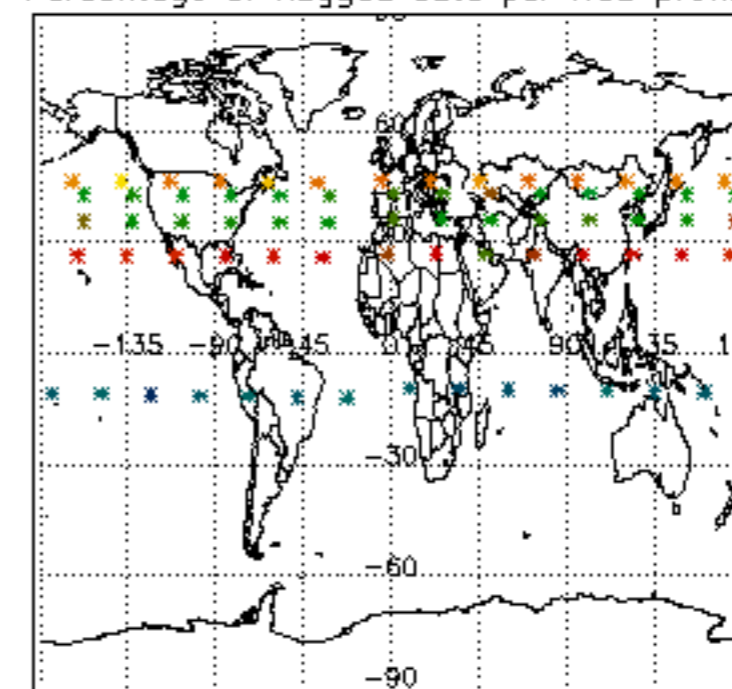
Percentage of flagged data per H2O profile

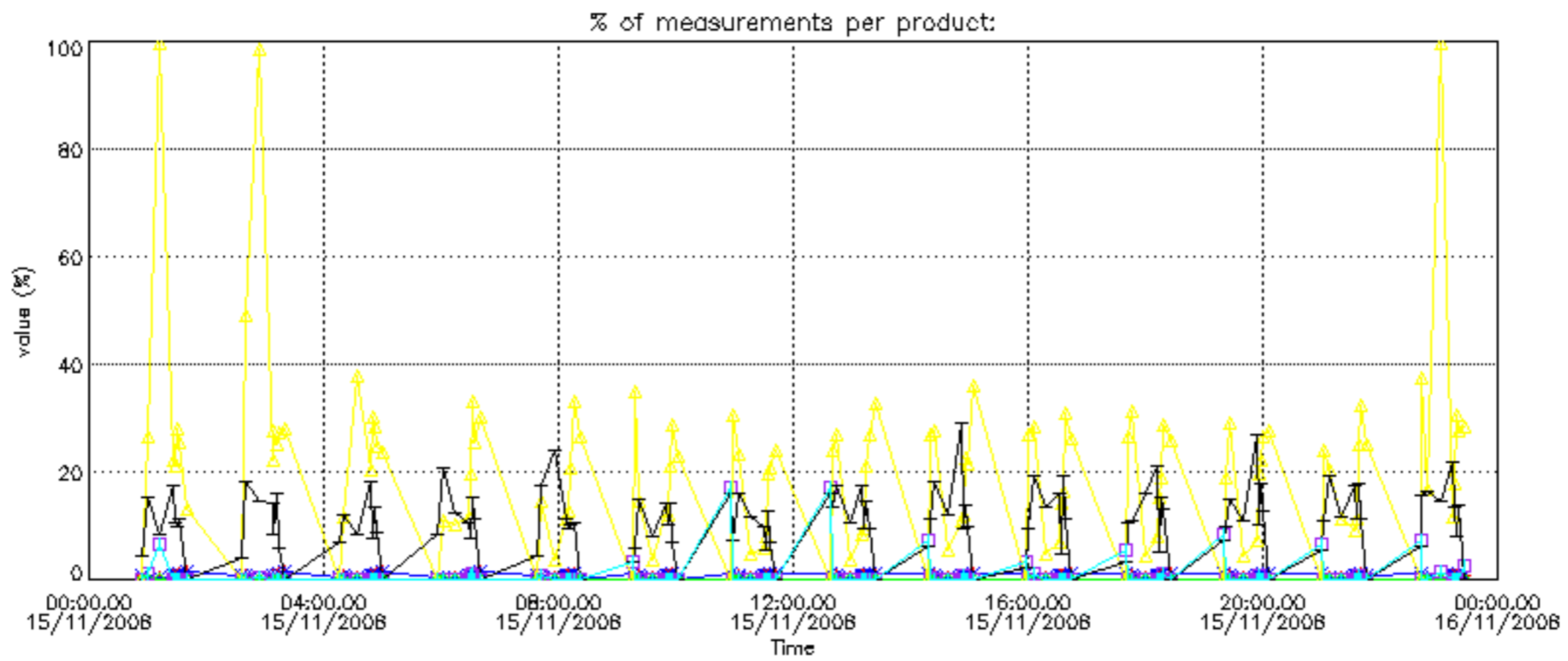


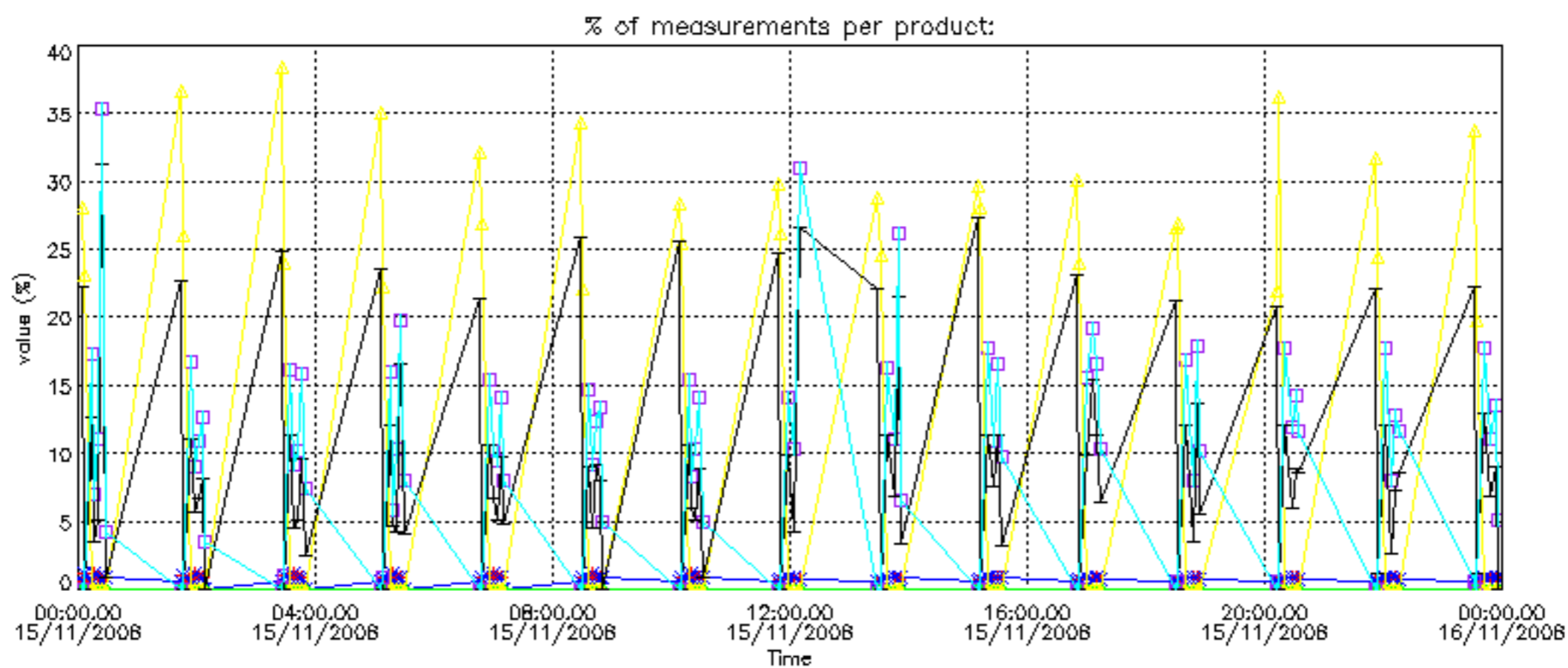
Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

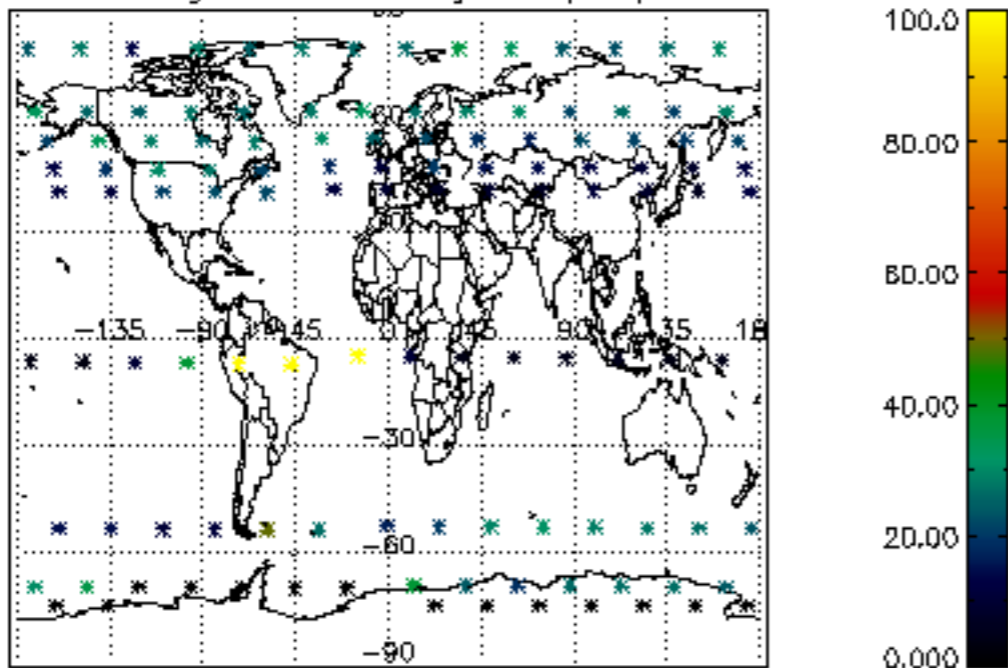




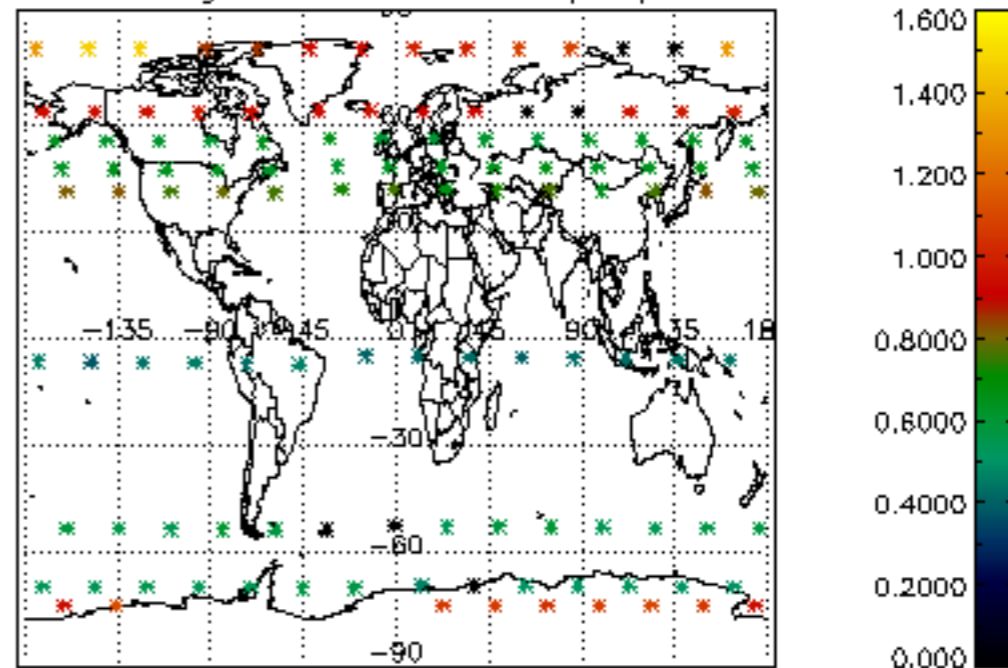




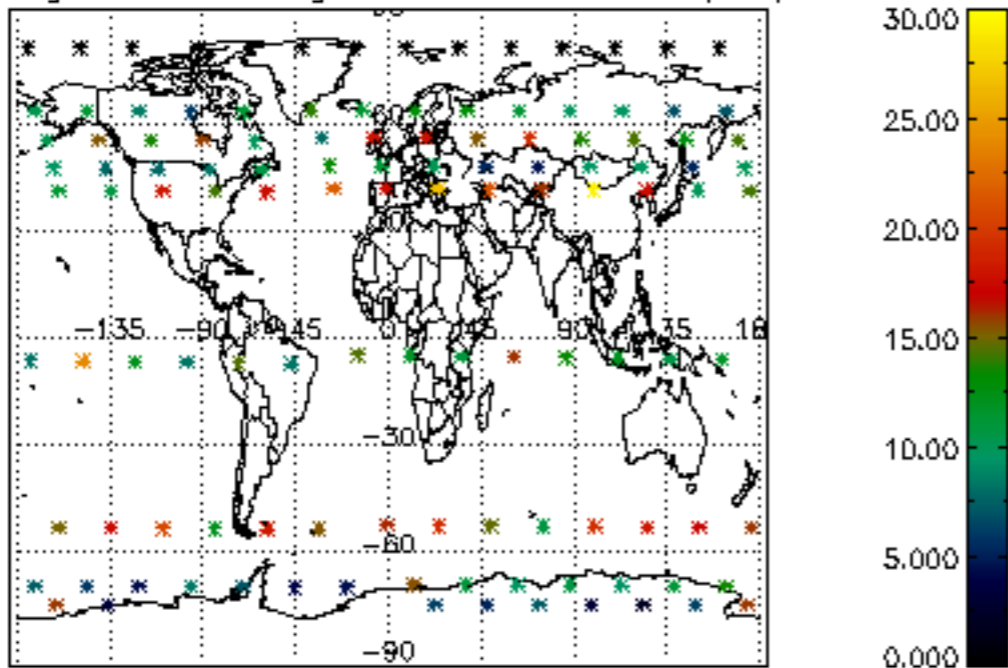
Percentage of cosmic ray hits per profile



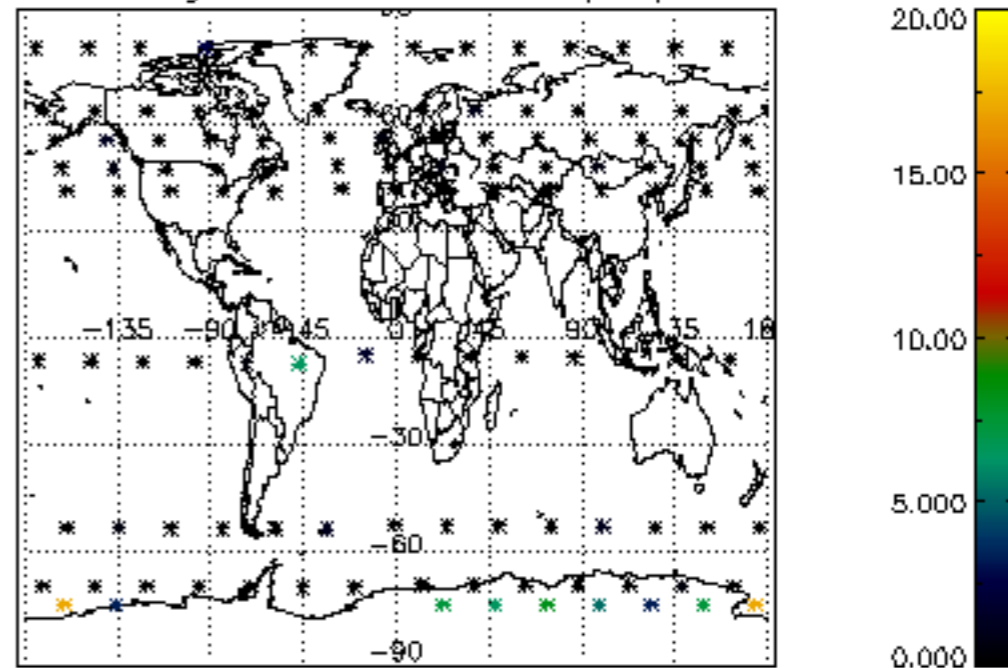
Percentage of datation errors per profile



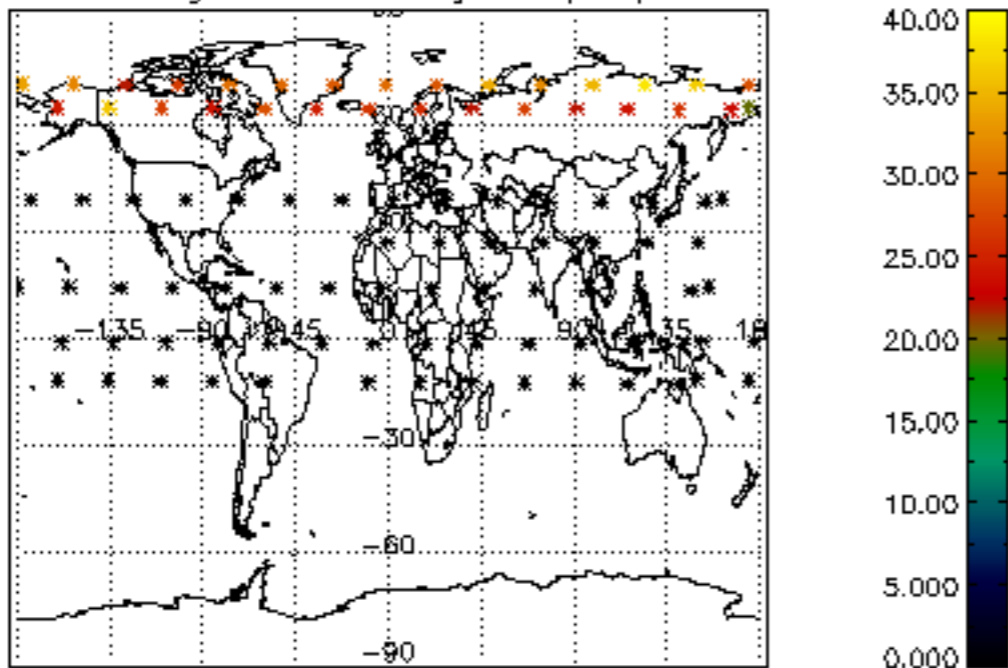
Percentage of star falling outside central band per profile



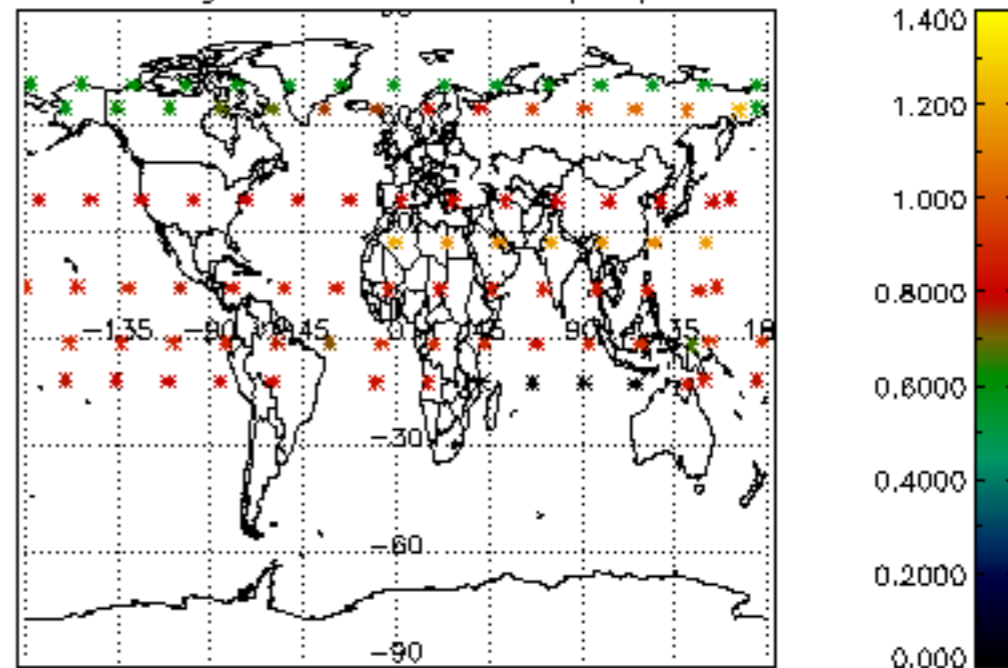
Percentage of saturation errors per profile



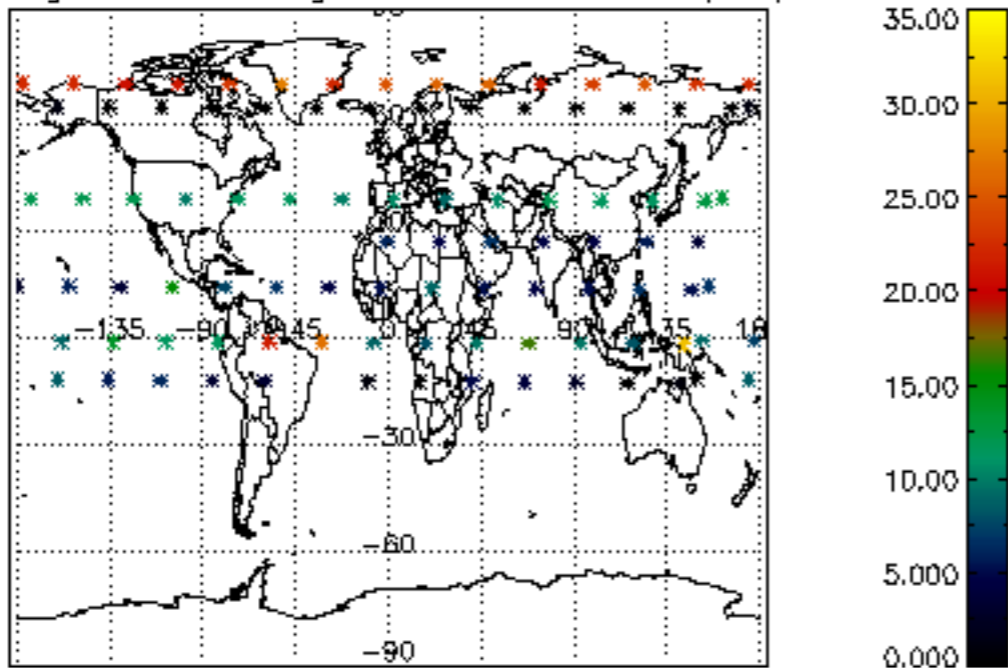
Percentage of cosmic ray hits per profile



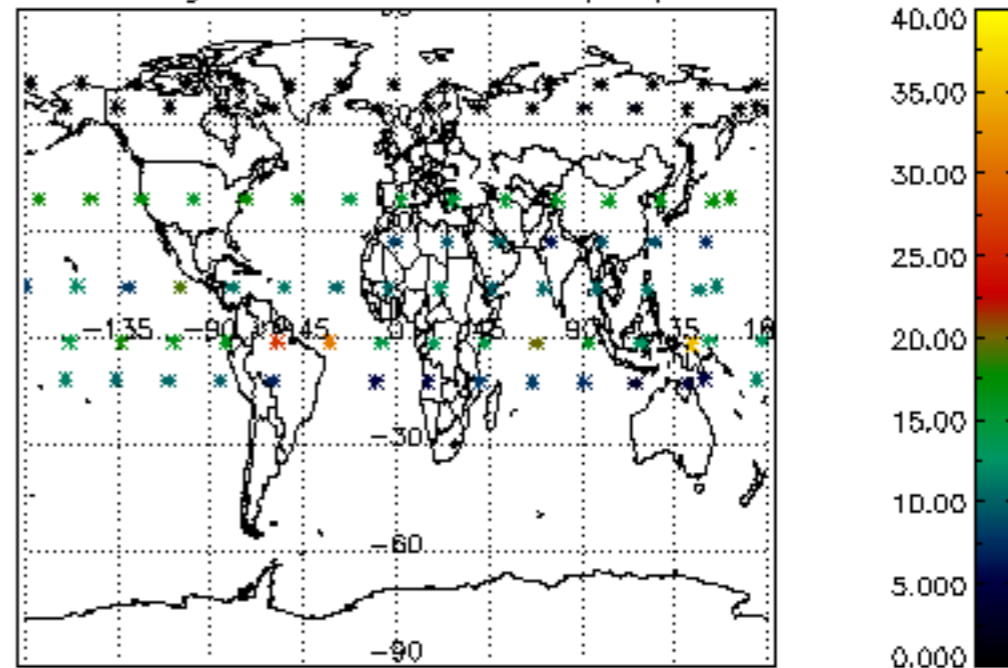
Percentage of datation errors per profile

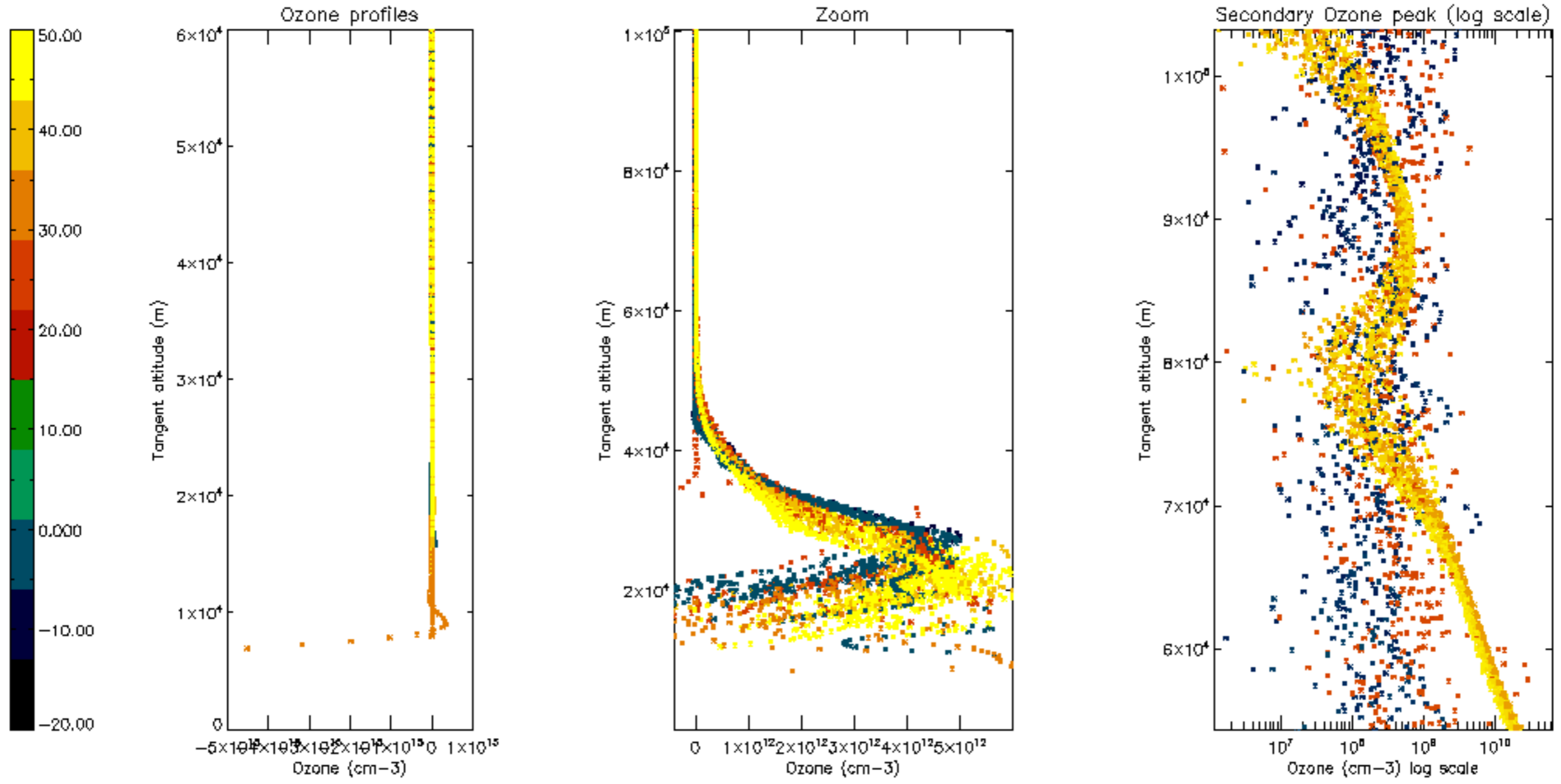


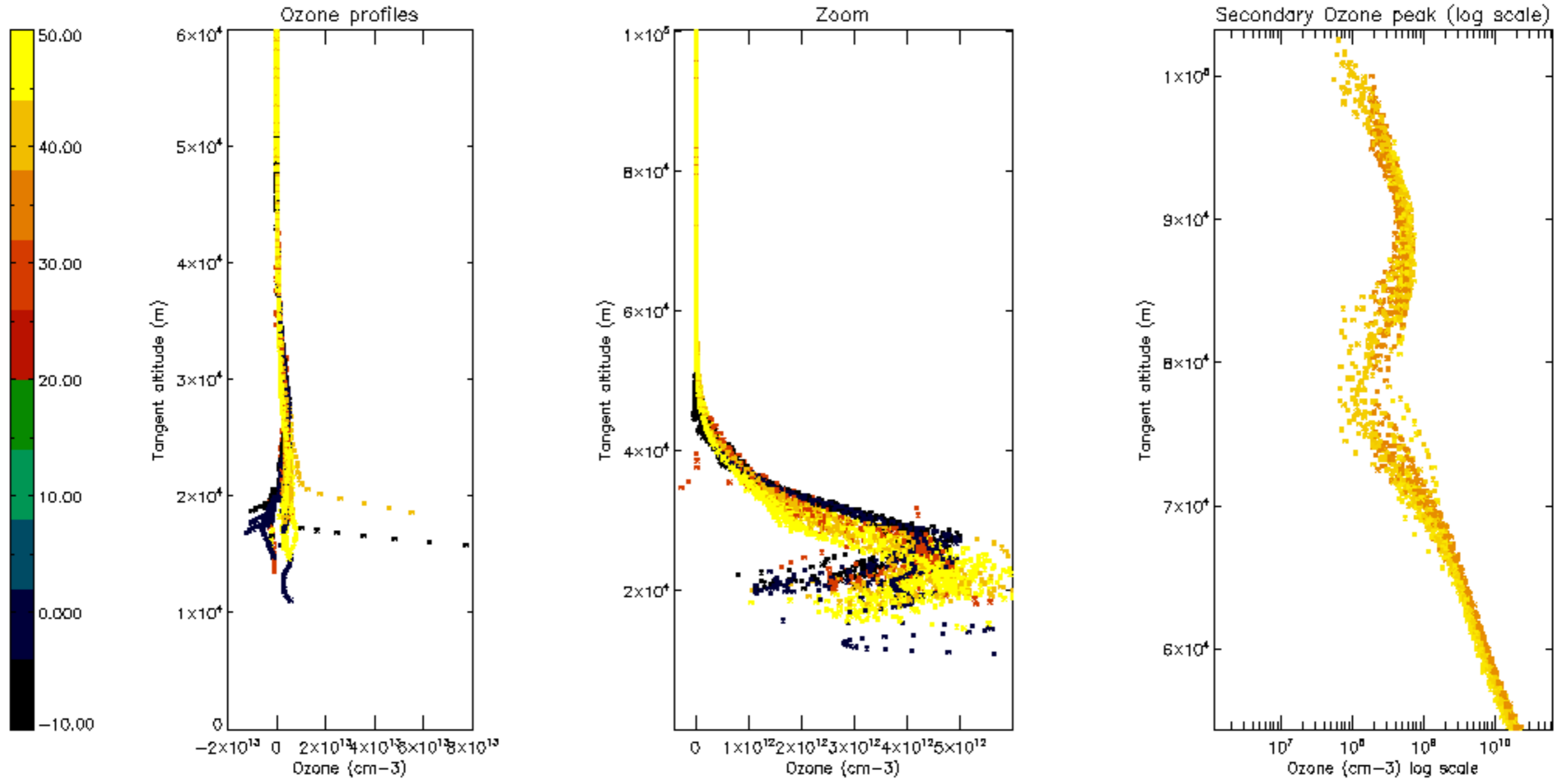
Percentage of star falling outside central band per profile



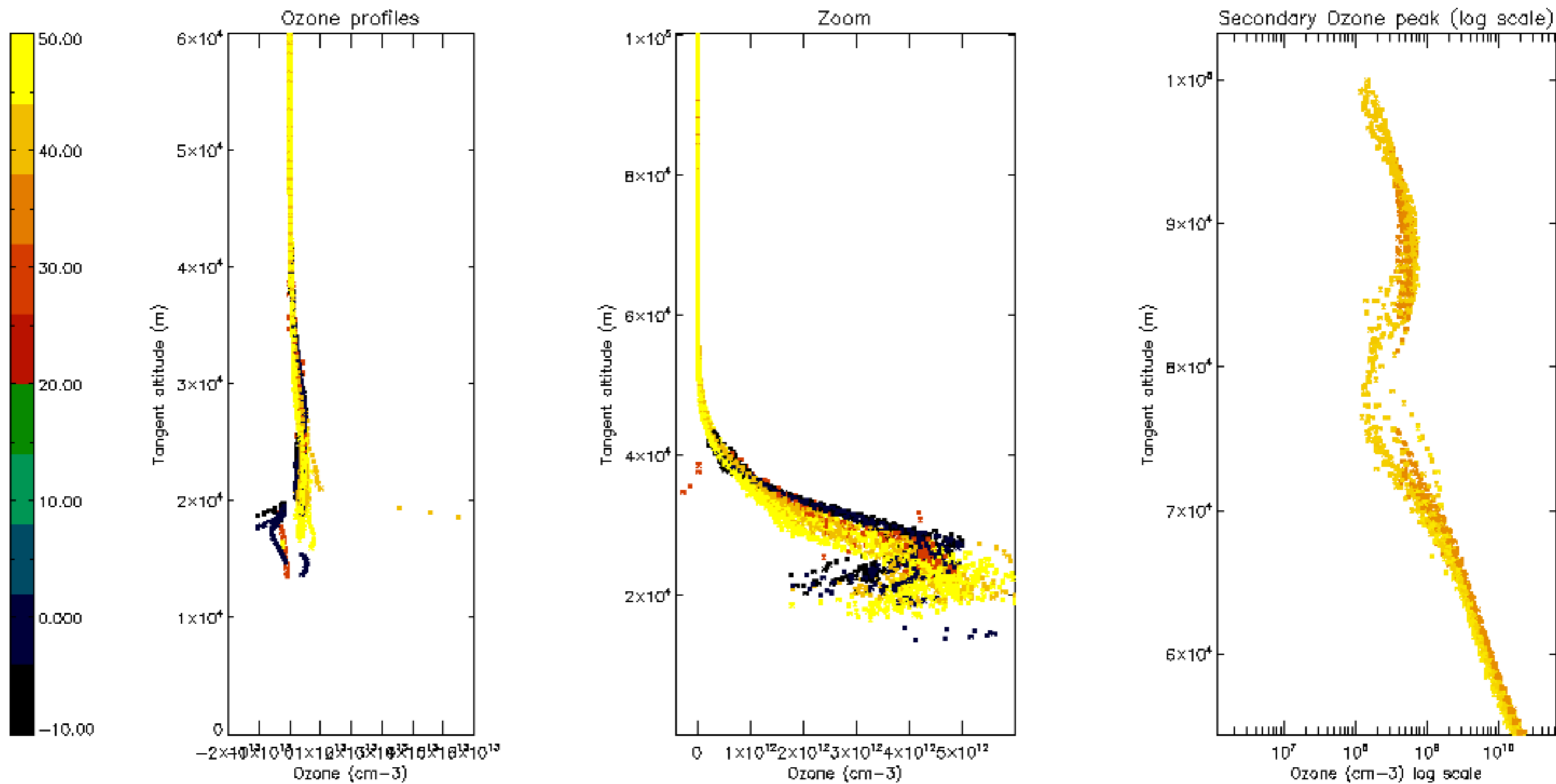
Percentage of saturation errors per profile

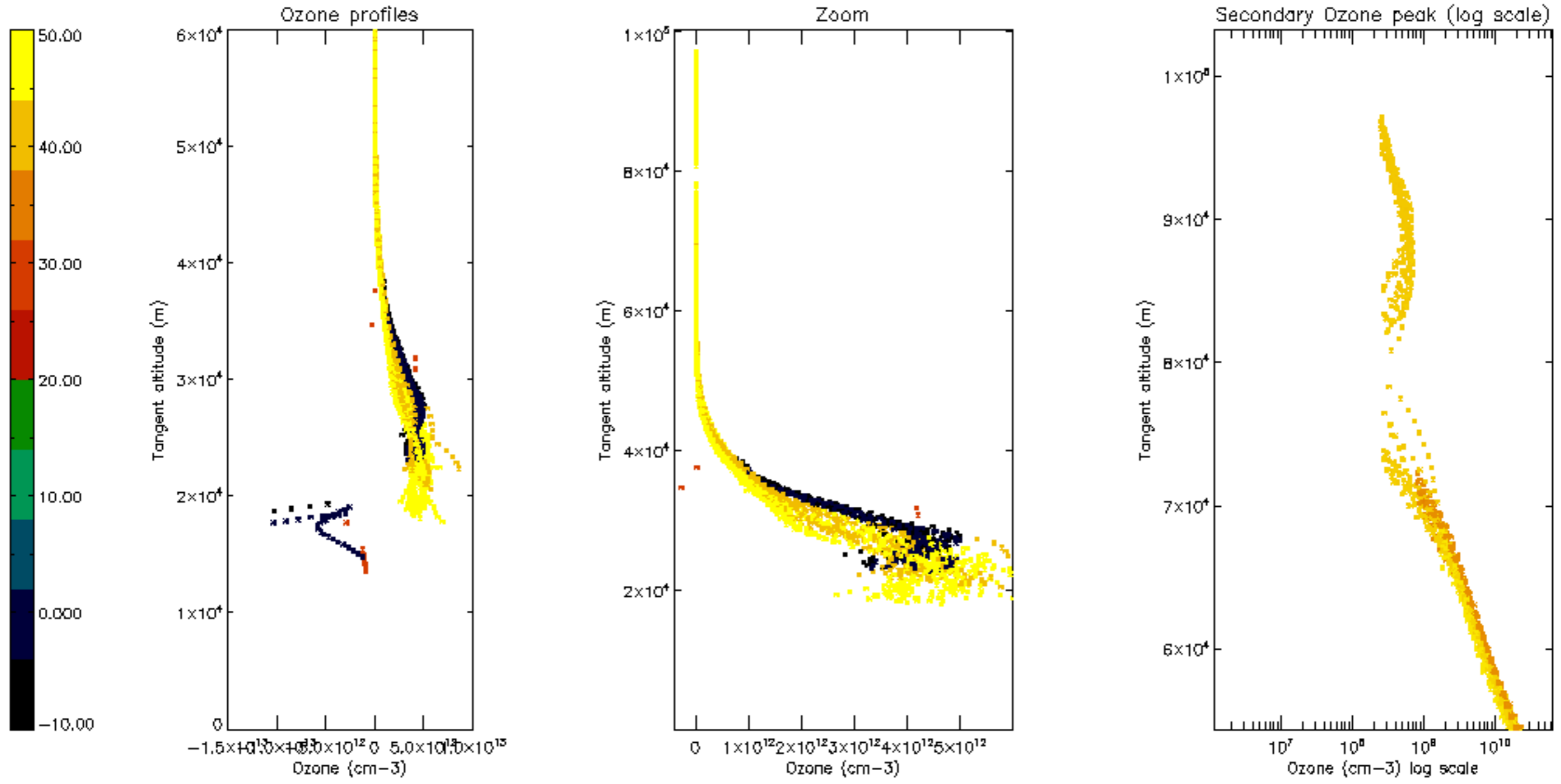


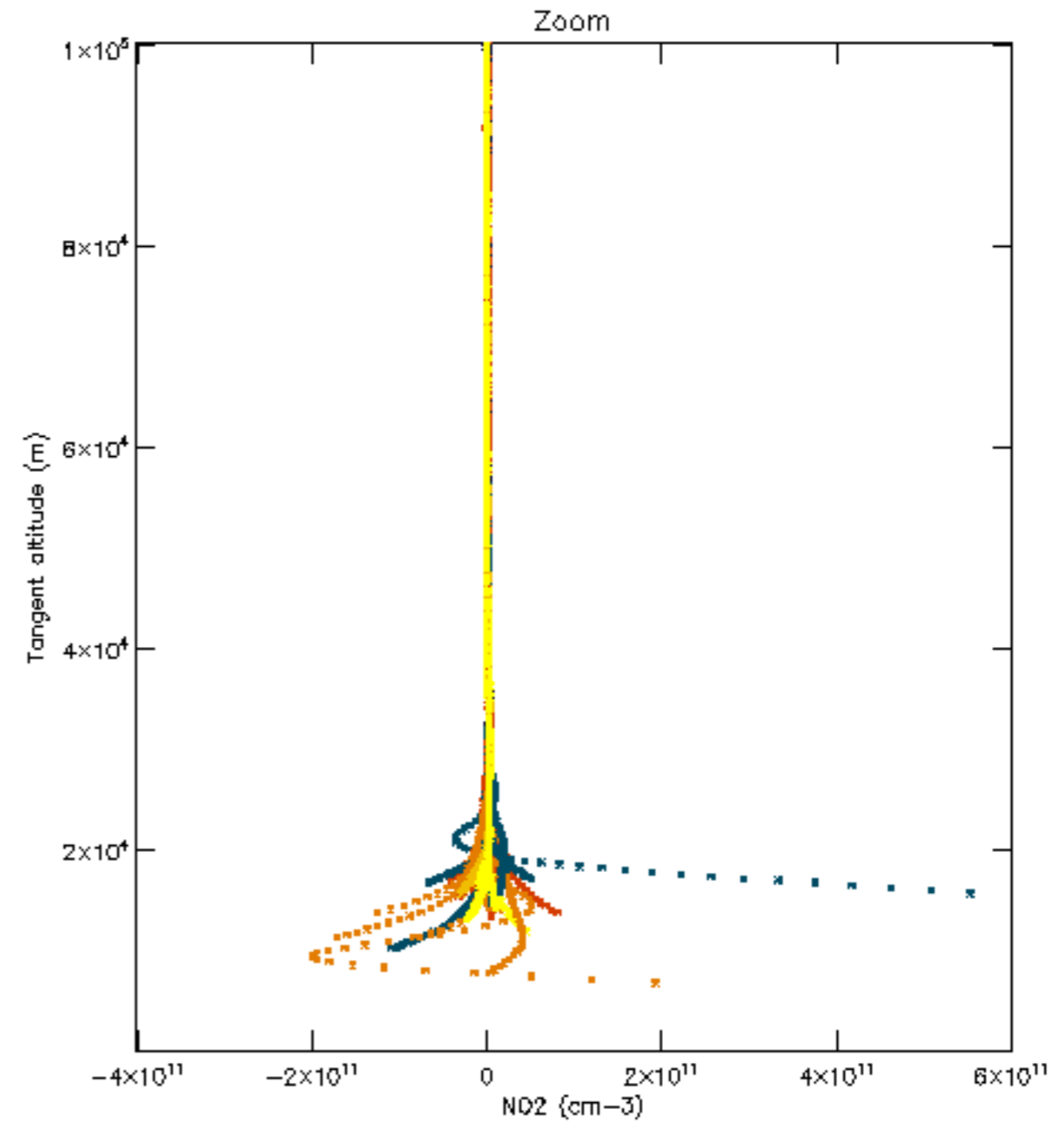
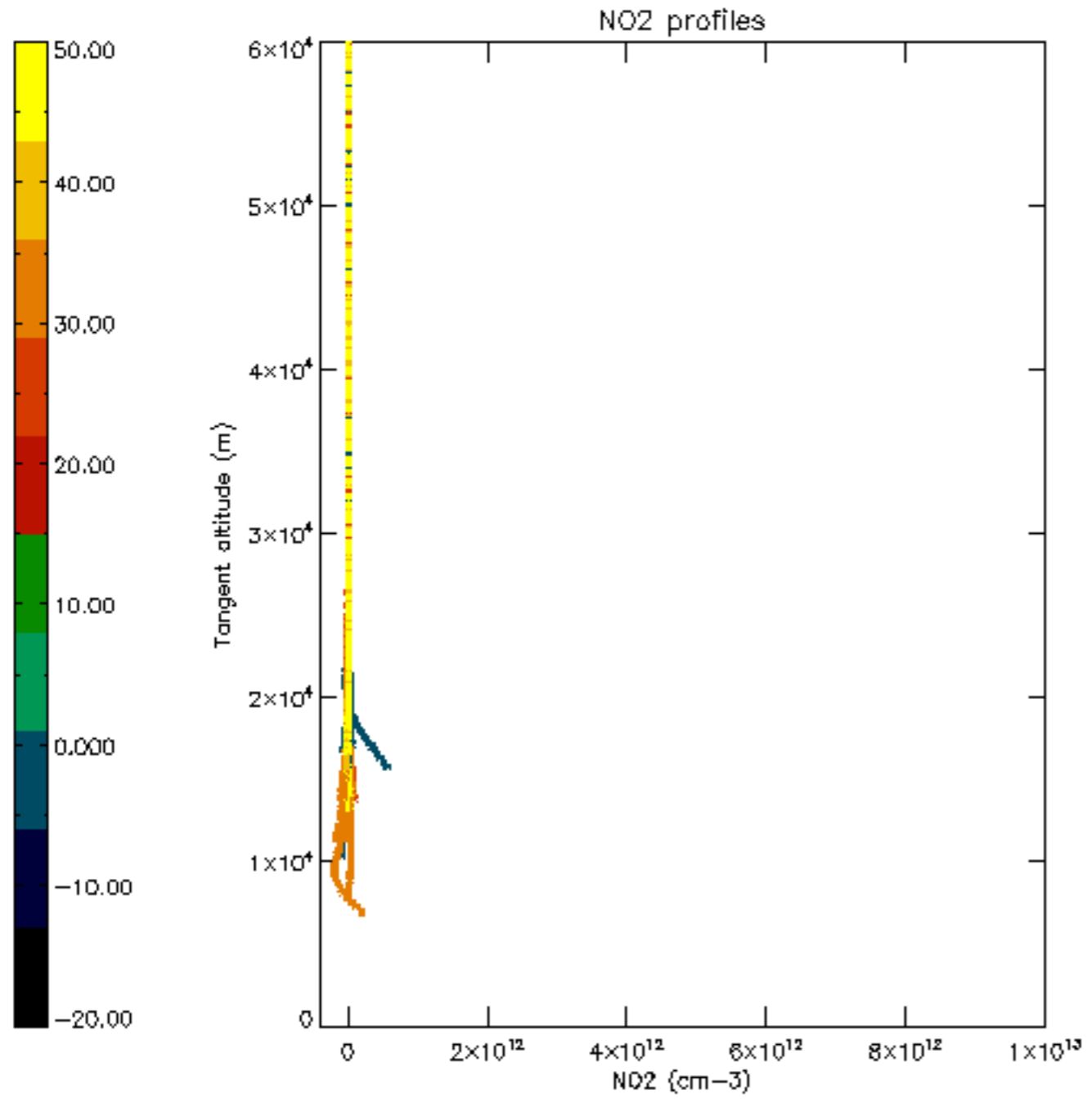


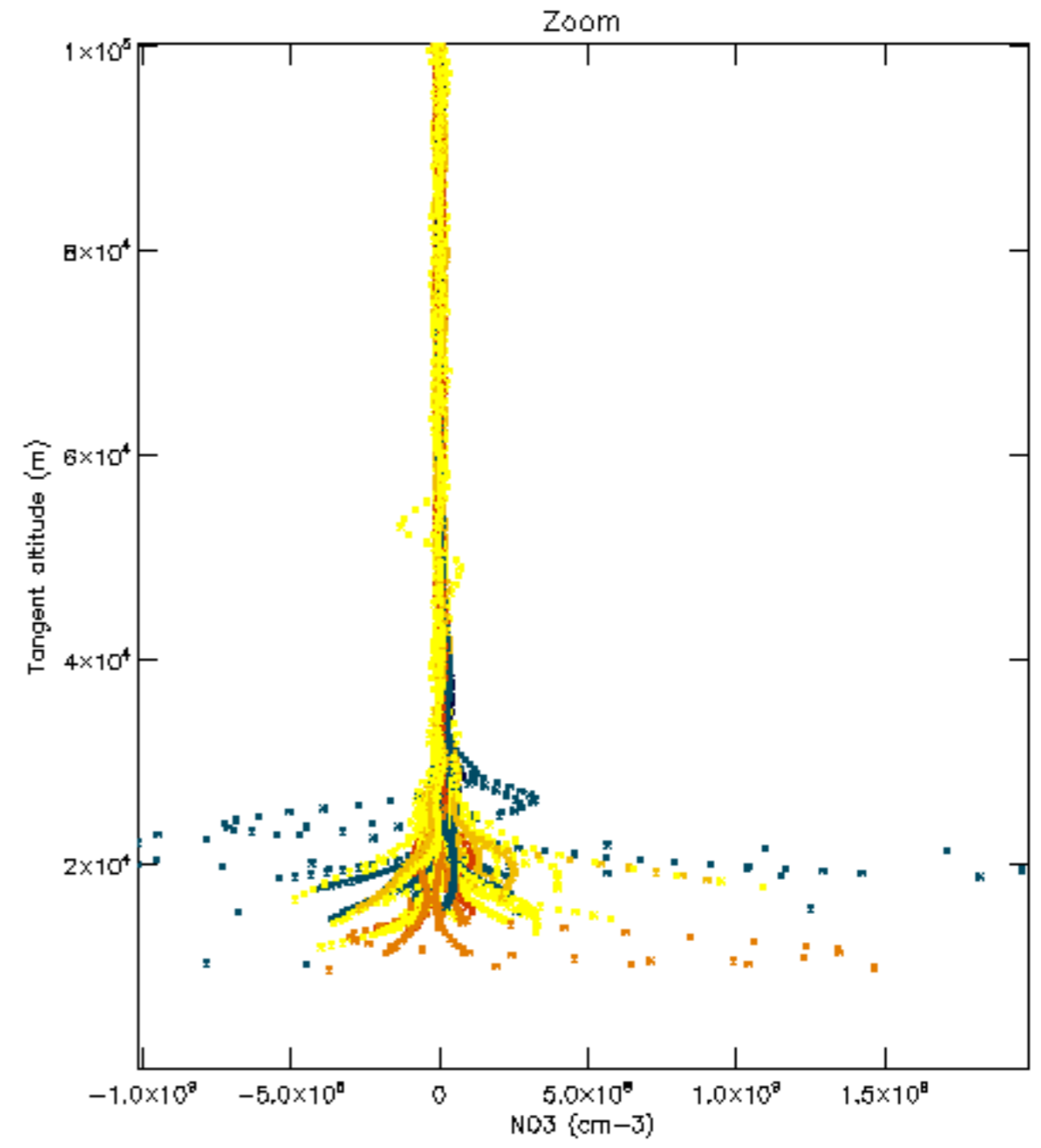
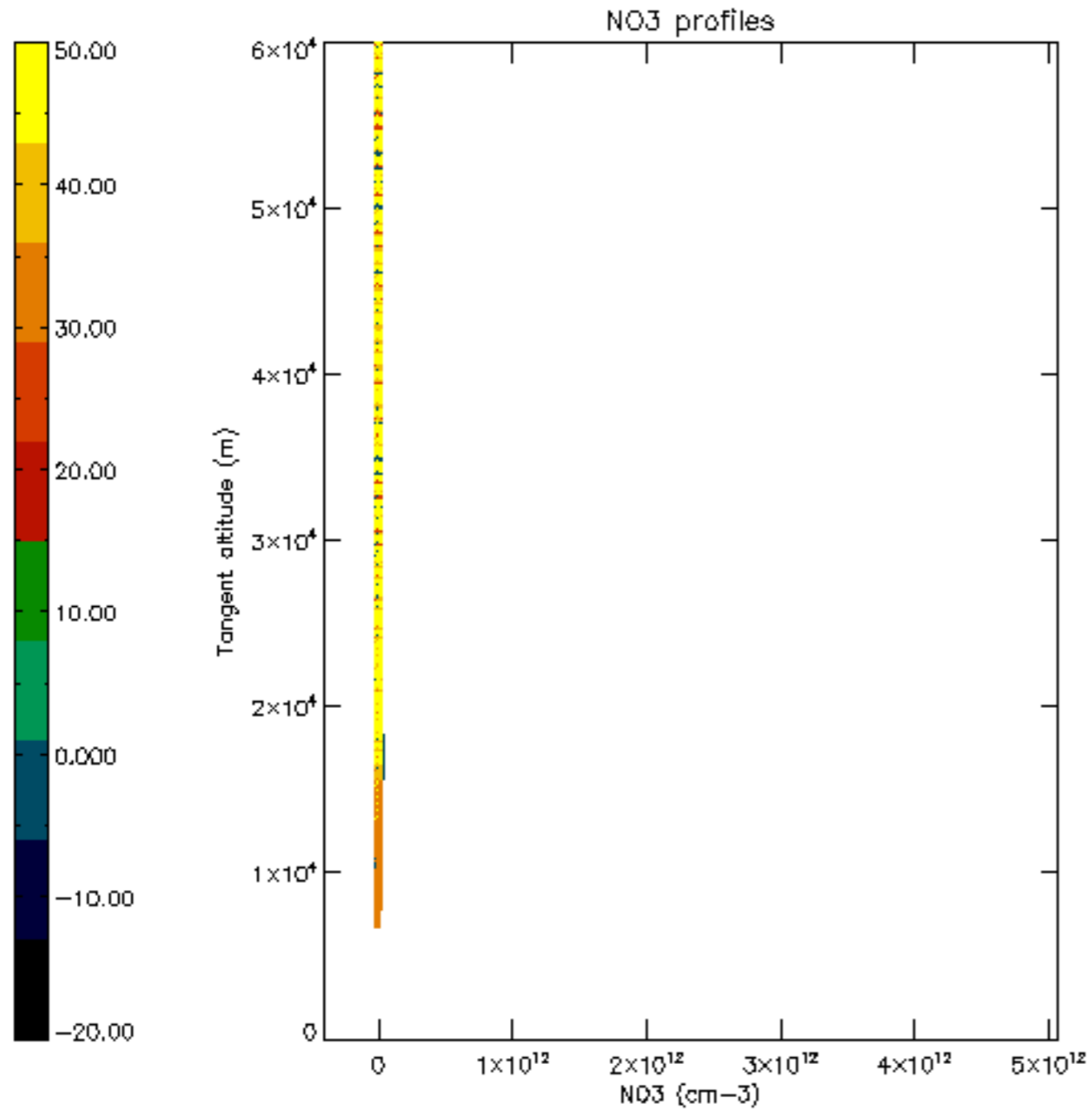




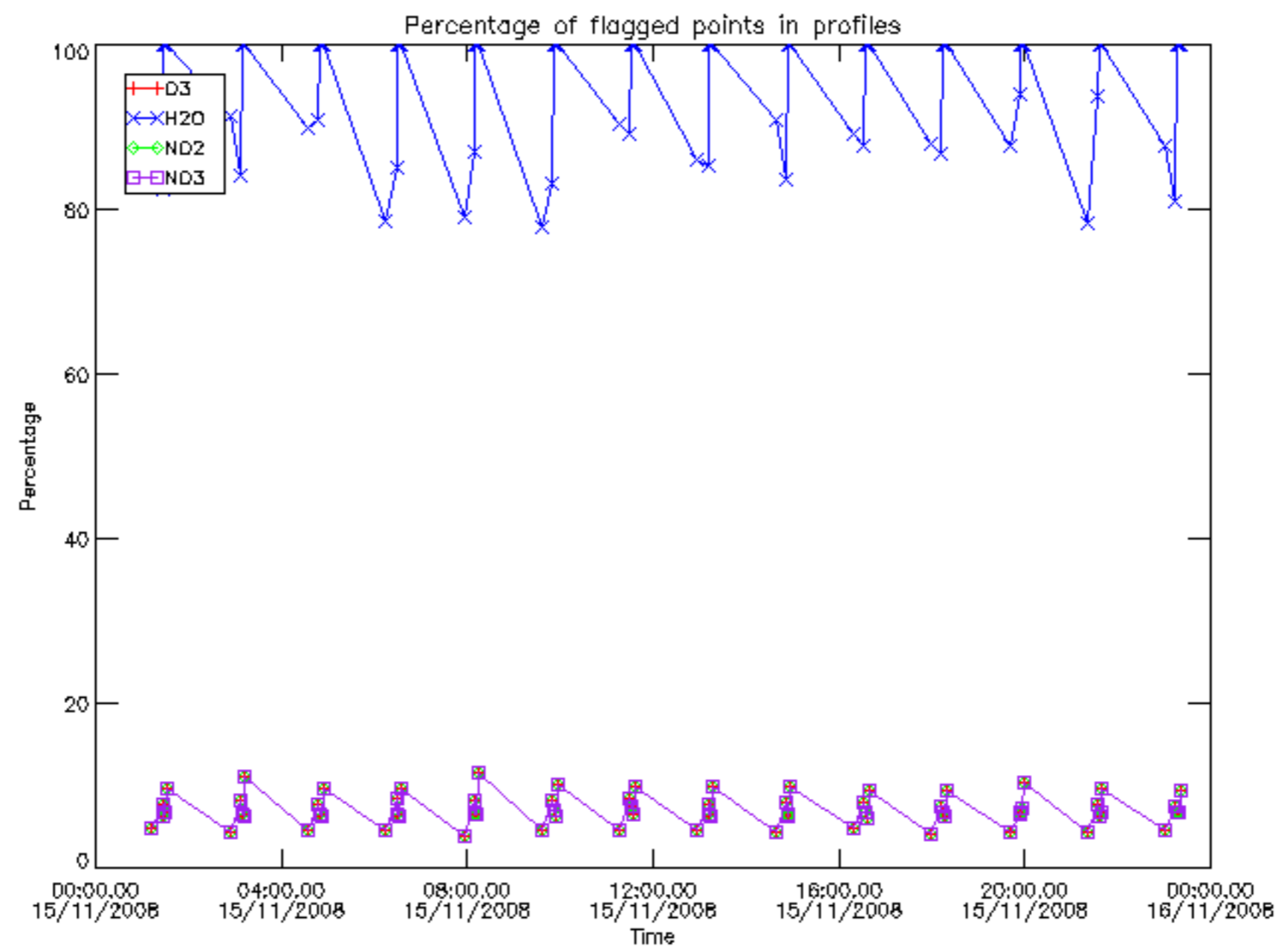




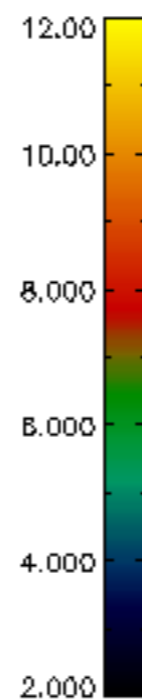
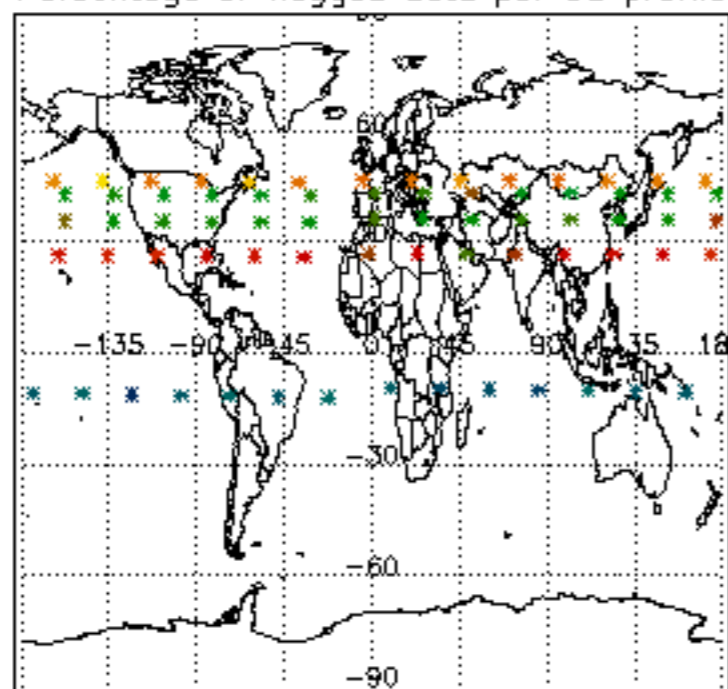




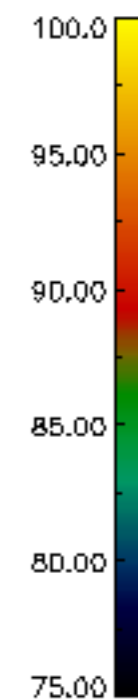
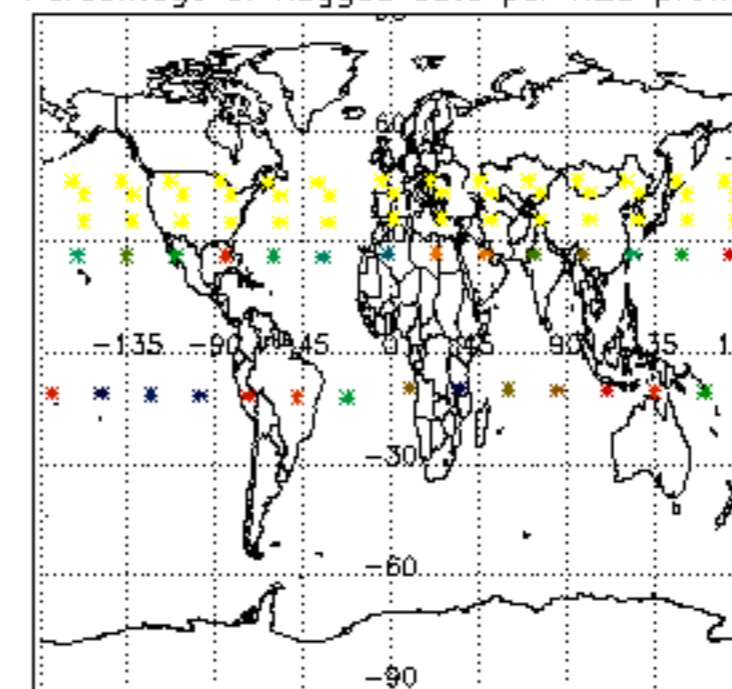




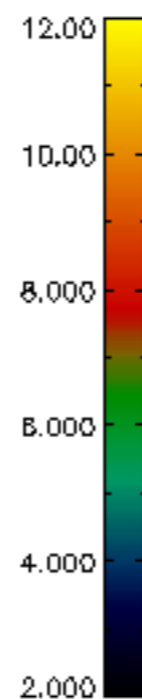
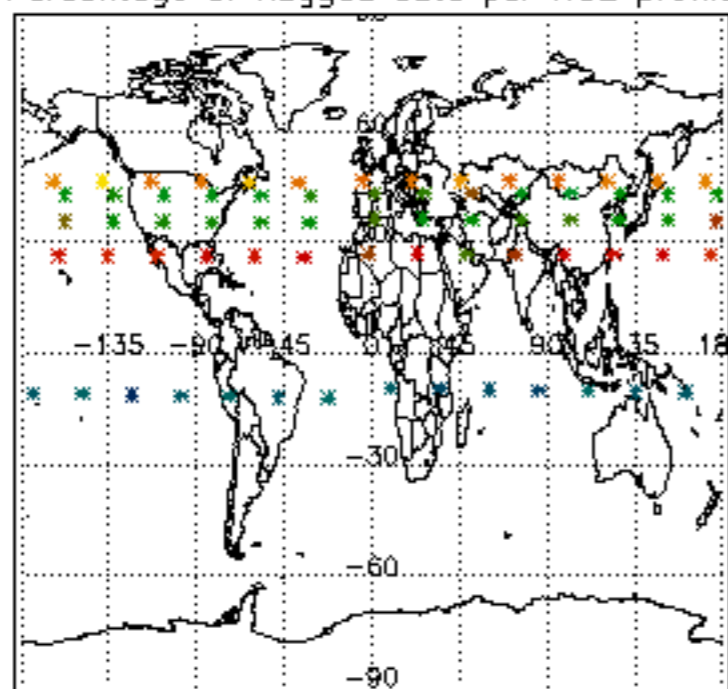
Percentage of flagged data per D3 profile



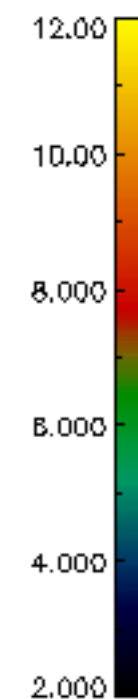
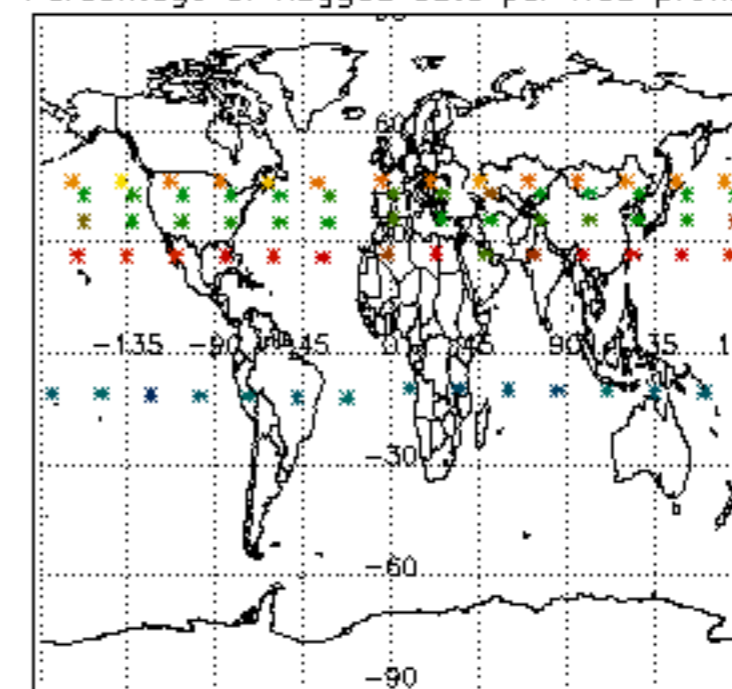
Percentage of flagged data per H2O profile

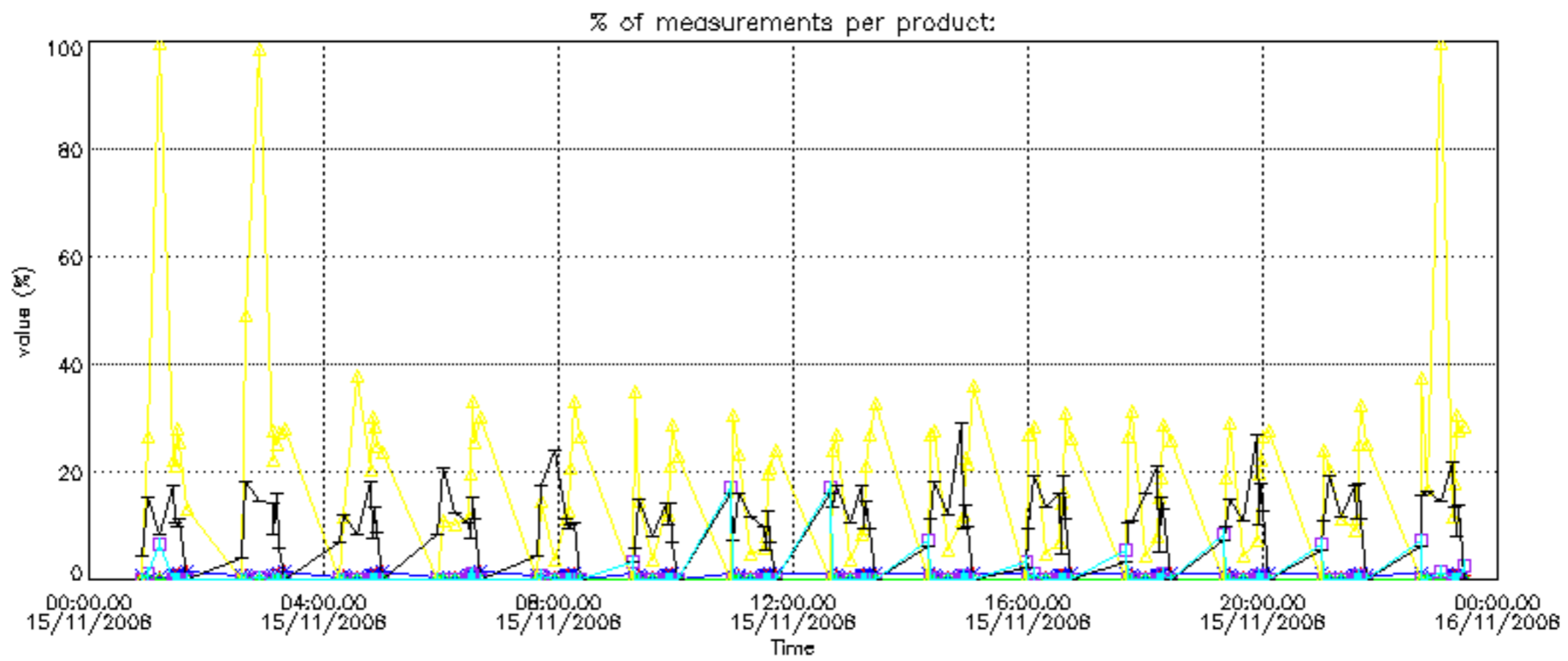


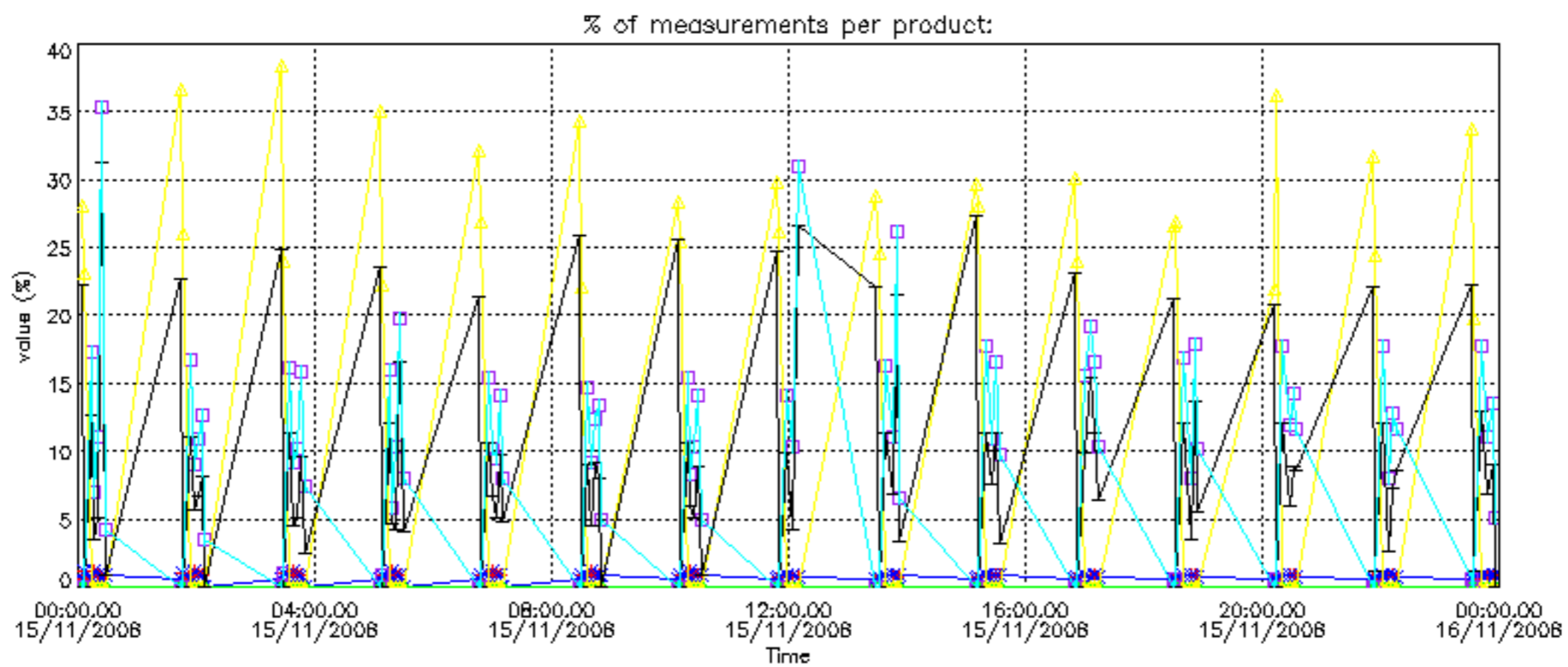
Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

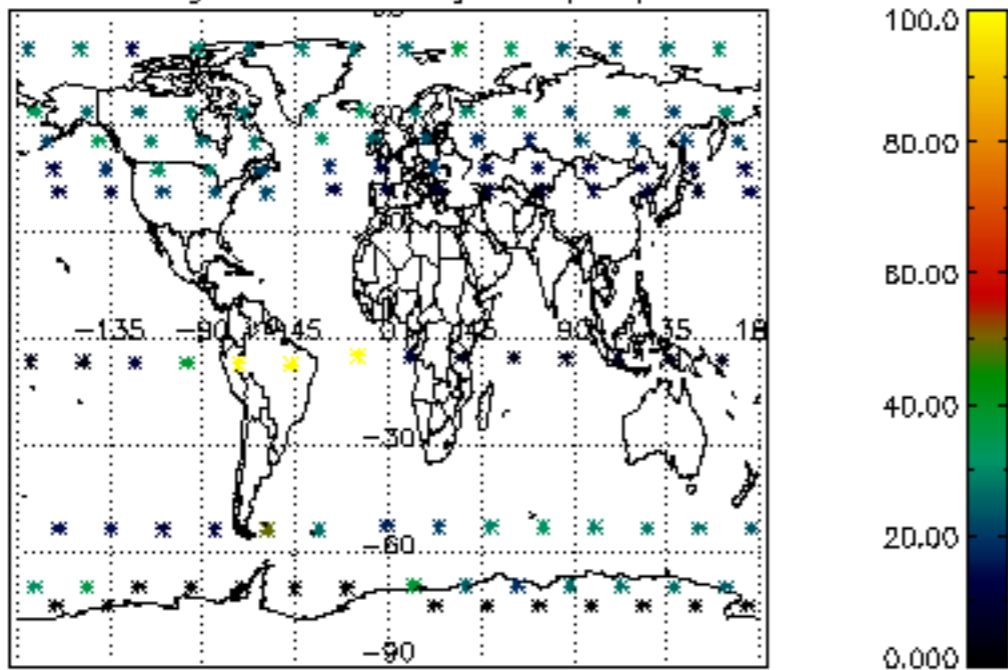




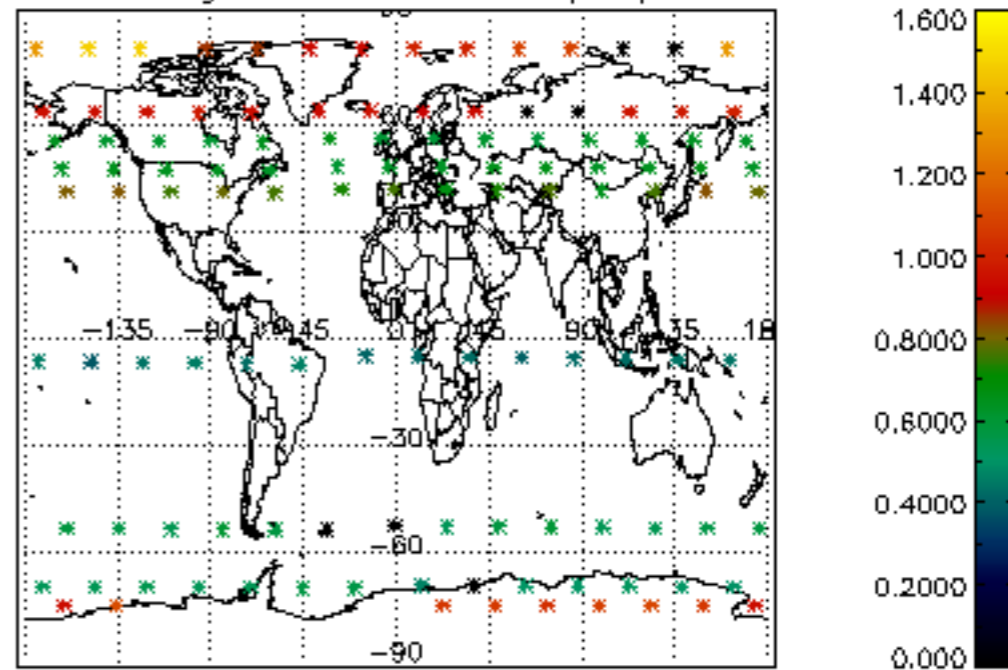




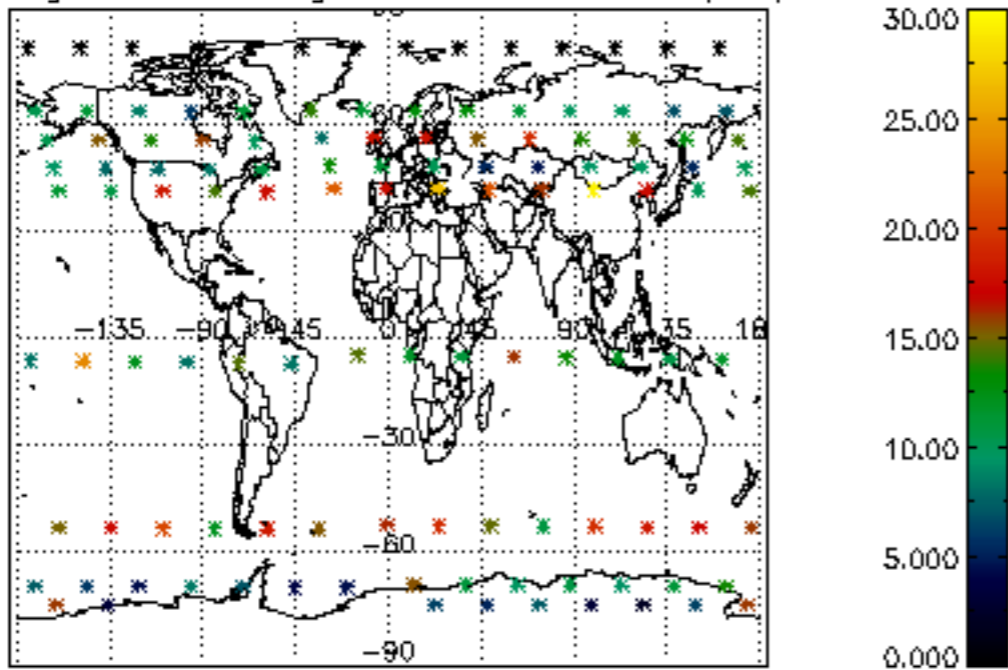
Percentage of cosmic ray hits per profile



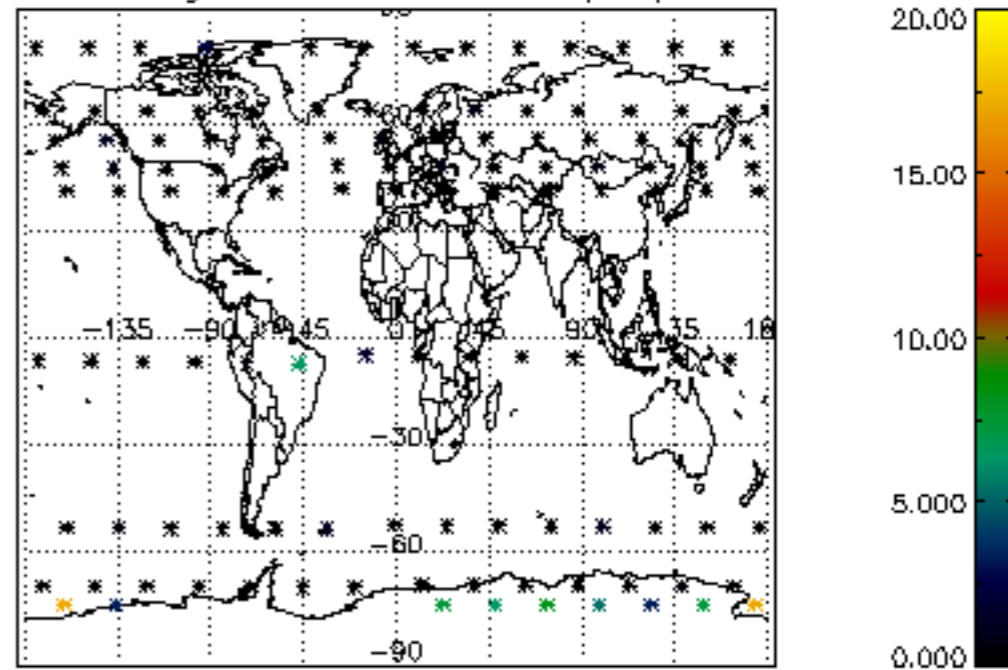
Percentage of datation errors per profile



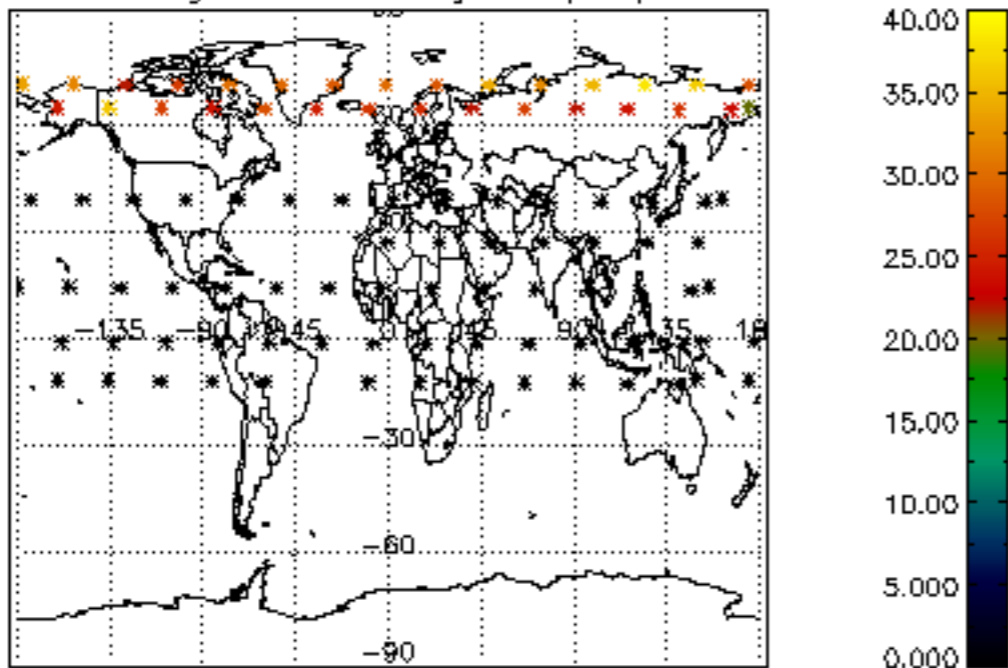
Percentage of star falling outside central band per profile



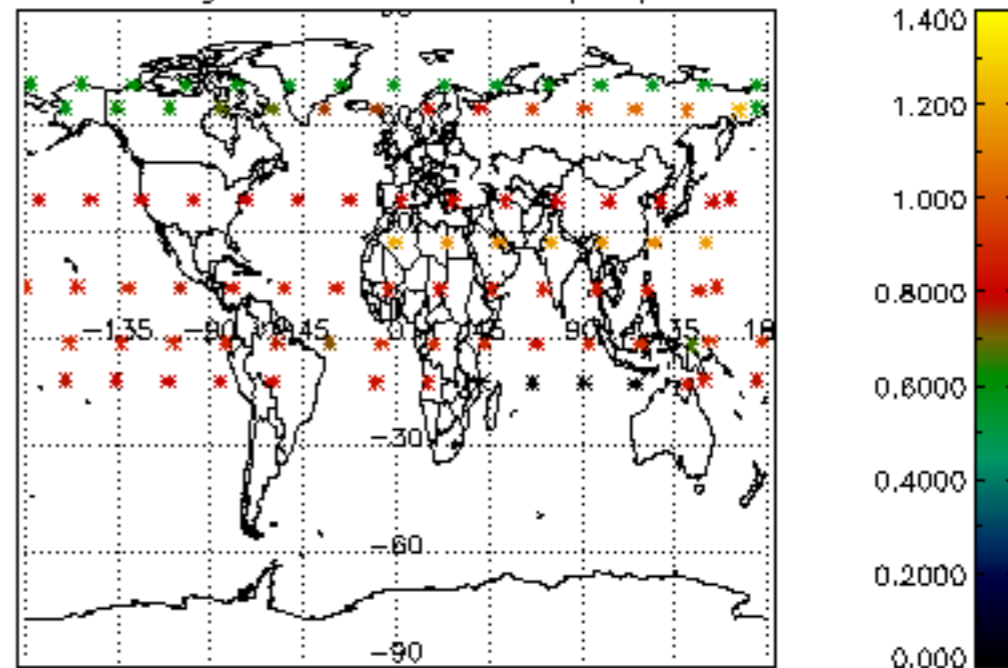
Percentage of saturation errors per profile



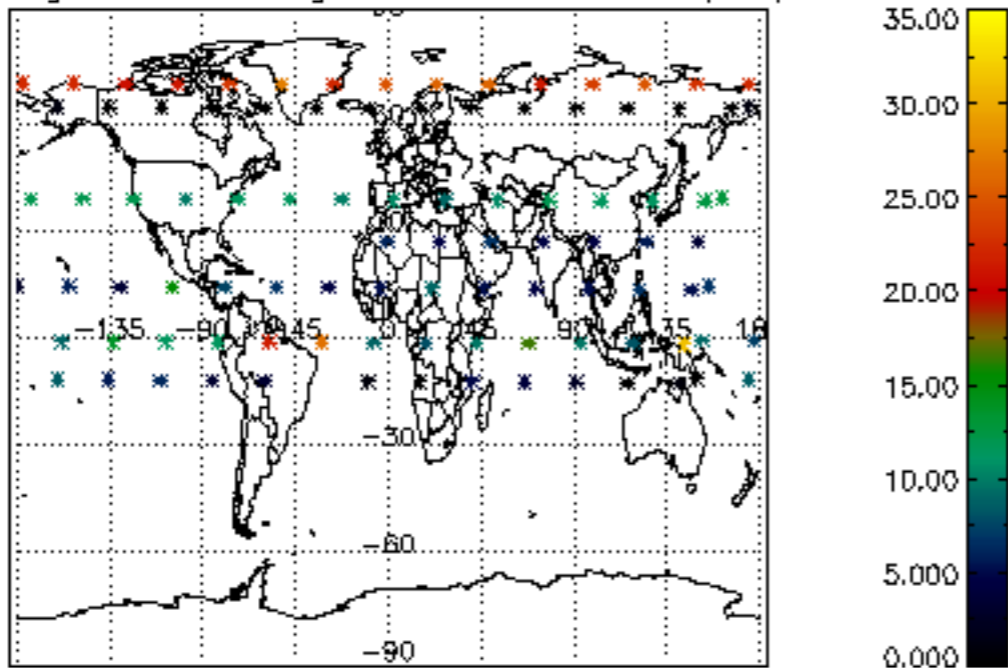
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

