

GOMOS Level 2 Daily Report

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

Item	Value
Time of report generation	24APR2013 06:06:42
Data source version	GOMOS/6.01
Start time of products	28-11-2006 (28NOV2006 00:00:00)
Stop time of products	29-11-2006 (29NOV2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	94
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

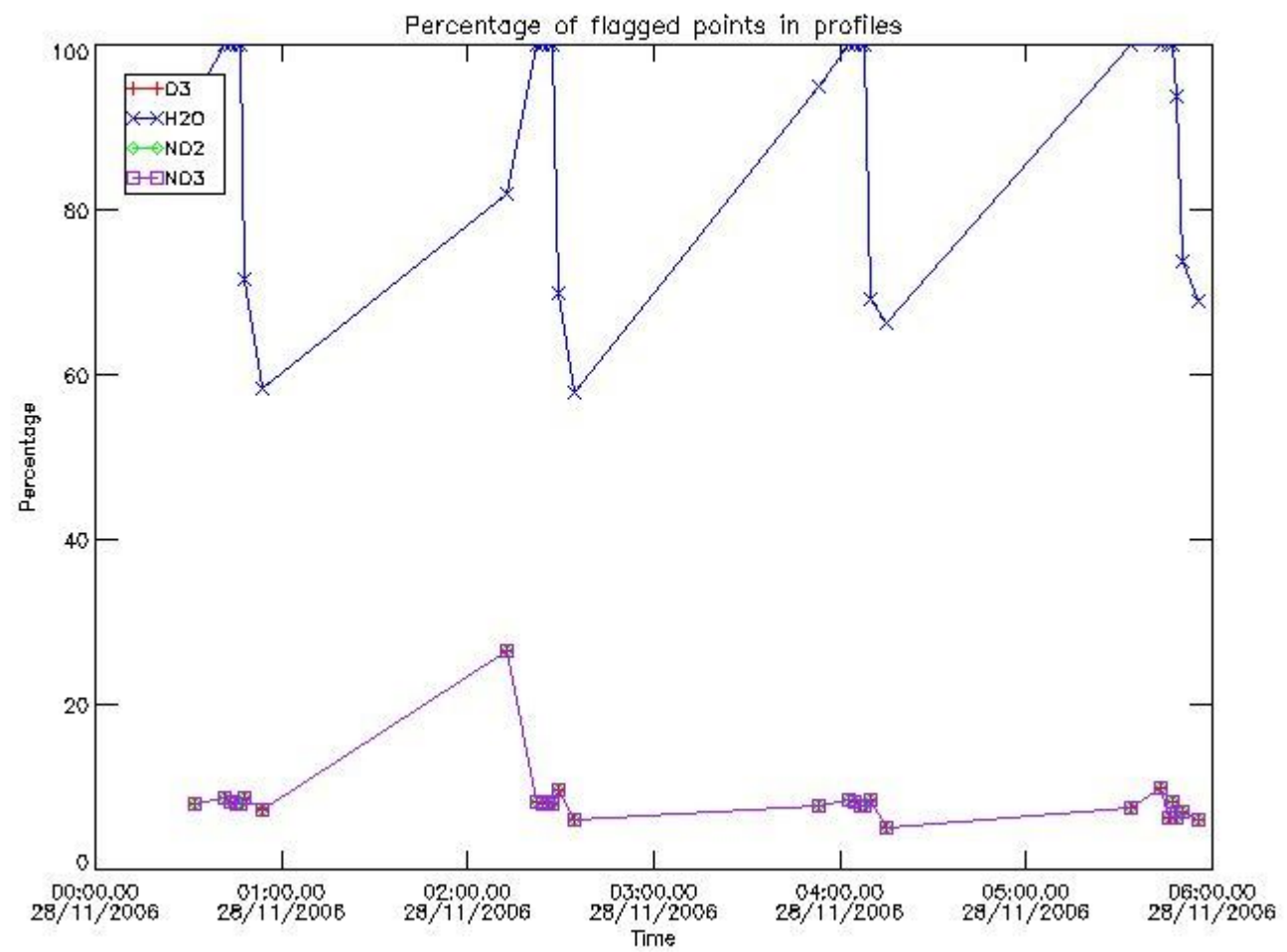
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20061128_000146_000000302053_00202_24805_1462.N1	28-NOV-2006 00:01:46	Bright	29.500	60	7Bet UMi	2.0810	3950.0	59	24805	No
2	GOM_NL__2PRFIN20061128_000705_000000342053_00202_24805_1463.N1	28-NOV-2006 00:07:05	Bright	33.500	32	77Eps UMa	1.7630	11000.	67	24805	No
3	GOM_NL__2PRFIN20061128_000903_000000402053_00202_24805_1464.N1	28-NOV-2006 00:09:03	Bright	39.500	39	85Eta UMa	1.8540	24000.	79	24805	No
4	GOM_NL__2PRFIN20061128_001152_000000302053_00202_24805_1465.N1	28-NOV-2006 00:11:52	Bright	30.000	180	27Gam Boo	3.0400	8000.0	60	24805	No
5	GOM_NL__2PRFIN20061128_001723_000000282053_00202_24805_1466.N1	28-NOV-2006 00:17:23	Bright	28.000	3	16Alp Boo	-0.050000	4250.0	56	24805	No
6	GOM_NL__2PRFIN20061128_002050_000000322053_00202_24805_1467.N1	28-NOV-2006 00:20:50	Bright	31.500	138	47Eps Vir	2.8280	4700.0	63	24805	No
7	GOM_NL__2PRFIN20061128_002502_000000362053_00202_24805_1468.N1	28-NOV-2006 00:25:02	Bright	36.000	121	29Gam Vir	2.7400	7200.0	72	24805	No
8	GOM_NL__2PRFIN20061128_002636_000000322053_00202_24805_1469.N1	28-NOV-2006 00:26:36	Bright	32.000	15	67Alp Vir	0.97600	28000.	64	24805	No
9	GOM_NL__2PRFIN20061128_003032_000000402053_00202_24805_1470.N1	28-NOV-2006 00:30:32	Twilight	39.500	100	4Gam Crv	2.5800	13100.	79	24805	No
10	GOM_NL__2PRFIN20061128_003207_000000392053_00202_24805_1471.N1	28-NOV-2006 00:32:07	Dark	38.500	171	2Eps Crv	3.0010	4250.0	77	24805	No
11	GOM_NL__2PRFIN20061128_004135_000000422053_00203_24806_1447.N1	28-NOV-2006 00:41:35	Dark	41.500	113	Mu Vel	2.6920	5000.0	83	24806	No
12	GOM_NL__2PRFIN20061128_004347_000000322053_00203_24806_1448.N1	28-NOV-2006 00:43:47	Dark	31.500	124	The Car	2.7640	30000.	63	24806	No
13	GOM_NL__2PRFIN20061128_004527_000000332053_00203_24806_1449.N1	28-NOV-2006 00:45:27	Dark	32.500	159	Ups Car	2.9200	7200.0	65	24806	No
14	GOM_NL__2PRFIN20061128_004636_000000322053_00203_24806_1450.N1	28-NOV-2006 00:46:36	Dark	32.000	29	Bet Car	1.6720	10200.	64	24806	No
15	GOM_NL__2PRFIN20061128_004820_000000362053_00203_24806_1451.N1	28-NOV-2006 00:48:20	Dark	35.500	41	Eps Car	1.8600	4100.0	71	24806	No
16	GOM_NL__2PRFIN20061128_005345_000000432053_00203_24806_1452.N1	28-NOV-2006 00:53:45	Dark	42.500	2	Alp Car	-0.73600	7000.0	85	24806	No
17	GOM_NL__2PRFIN20061128_010817_000000402053_00203_24806_1453.N1	28-NOV-2006 01:08:17	Straylight	40.000	165	34Gam Eri	2.9500	3200.0	80	24806	No
18	GOM_NL__2PRFIN20061128_011339_000000412053_00203_24806_1454.N1	28-NOV-2006 01:13:39	Twilight	41.000	94	92Alp Cet	2.5260	3100.0	82	24806	No
19	GOM_NL__2PRFIN20061128_011940_000000332053_00203_24806_1455.N1	28-NOV-2006 01:19:40	Bright	33.000	146	25Eta Tau	2.8730	15200.	66	24806	No
20	GOM_NL__2PRFIN20061128_012205_000000332053_00203_24806_1456.N1	28-NOV-2006 01:22:05	Bright	33.000	150	44Zet Per	2.8900	28000.	66	24806	No
21	GOM_NL__2PRFIN20061128_012411_000000312053_00203_24806_1457.N1	28-NOV-2006 01:24:11	Bright	31.000	79	26Bet Per	2.3100	13100.	62	24806	No
22	GOM_NL__2PRFIN20061128_012631_000000312053_00203_24806_1458.N1	28-NOV-2006 01:26:31	Bright	30.500	175	39Del Per	3.0100	19400.	61	24806	No
23	GOM_NL__2PRFIN20061128_012744_000000312053_00203_24806_1459.N1	28-NOV-2006 01:27:44	Bright	30.500	160	23Gam Per	2.9300	4700.0	61	24806	No
24	GOM_NL__2PRFIN20061128_013744_000000292053_00203_24806_1460.N1	28-NOV-2006 01:37:44	Bright	28.500	49	1Alp UMi	1.9900	6300.0	57	24806	No
25	GOM_NL__2PRFIN20061128_014222_000000322053_00203_24806_1461.N1	28-NOV-2006 01:42:22	Bright	31.500	60	7Bet UMi	2.0810	3950.0	63	24806	No
26	GOM_NL__2PRFIN20061128_014741_000000322053_00203_24806_1462.N1	28-NOV-2006 01:47:41	Bright	32.000	32	77Eps UMa	1.7630	11000.	64	24806	No
27	GOM_NL__2PRFIN20061128_014939_000000322053_00203_24806_1463.N1	28-NOV-2006 01:49:39	Bright	32.000	39	85Eta UMa	1.8540	24000.	64	24806	No
28	GOM_NL__2PRFIN20061128_015229_000000282053_00203_24806_1464.N1	28-NOV-2006 01:52:29	Bright	28.000	180	27Gam Boo	3.0400	8000.0	56	24806	No
29	GOM_NL__2PRFIN20061128_015759_000000282053_00203_24806_1465.N1	28-NOV-2006 01:57:59	Bright	27.500	3	16Alp Boo	-0.050000	4250.0	55	24806	No
30	GOM_NL__2PRFIN20061128_020126_000000342053_00203_24806_1466.N1	28-NOV-2006 02:01:26	Bright	33.500	138	47Eps Vir	2.8280	4700.0	67	24806	No
31	GOM_NL__2PRFIN20061128_020538_000000512053_00203_24806_1467.N1	28-NOV-2006 02:05:38	Bright	50.500	121	29Gam Vir	2.7400	7200.0	101	24806	No
32	GOM_NL__2PRFIN20061128_020712_000000332053_00203_24806_1468.N1	28-NOV-2006 02:07:12	Bright	32.500	15	67Alp Vir	0.97600	28000.	65	24806	No
33	GOM_NL__2PRFIN20061128_021244_000000422053_00203_24806_1469.N1	28-NOV-2006 02:12:44	Dark	42.000	171	2Eps Crv	3.0010	4250.0	84	24806	No
34	GOM_NL__2PRFIN20061128_022212_000000382053_00204_24807_1446.N1	28-NOV-2006 02:22:12	Dark	38.000	113	Mu Vel	2.6920	5000.0	76	24807	No
35	GOM_NL__2PRFIN20061128_022423_000000332053_00204_24807_1447.N1	28-NOV-2006 02:24:23	Dark	32.500	124	The Car	2.7640	30000.	65	24807	No
36	GOM_NL__2PRFIN20061128_022603_000000312053_00204_24807_1448.N1	28-NOV-2006 02:26:03	Dark	31.000	159	Ups Car	2.9200	7200.0	62	24807	No
37	GOM_NL__2PRFIN20061128_022712_000000332053_00204_24807_1449.N1	28-NOV-2006 02:27:12	Dark	32.500	29	Bet Car	1.6720	10200.	65	24807	No
38	GOM_NL__2PRFIN20061128_022856_000000372053_00204_24807_1450.N1	28-NOV-2006 02:28:56	Dark	37.000	41	Eps Car	1.8600	4100.0	74	24807	No
39	GOM_NL__2PRFIN20061128_023422_000000422053_00204_24807_1451.N1	28-NOV-2006 02:34:22	Dark	42.000	2	Alp Car	-0.73600	7000.0	84	24807	No
40	GOM_NL__2PRFIN20061128_024853_000000422053_00204_24807_1452.N1	28-NOV-2006 02:48:53	Straylight	41.500	165	34Gam Eri	2.9500	3200.0	83	24807	No
41	GOM_NL__2PRFIN20061128_025415_000000442053_00204_24807_1453.N1	28-NOV-2006 02:54:15	Twilight	44.000	94	92Alp Cet	2.5260	3100.0	88	24807	No
42	GOM_NL__2PRFIN20061128_030016_000000342053_00204_24807_1454.N1	28-NOV-2006 03:00:16	Bright	34.000	146	25Eta Tau	2.8730	15200.	68	24807	No

43	GOM_NL__2PRFIN20061128_030241_000000332053_00204_24807_1455.N1	28-NOV-2006 03:02:41	Bright	33.000	150	44Zet Per	2.8900	28000.	66	24807	No
44	GOM_NL__2PRFIN20061128_030447_000000322053_00204_24807_1456.N1	28-NOV-2006 03:04:47	Bright	32.000	79	26Bet Per	2.3100	13100.	64	24807	No
45	GOM_NL__2PRFIN20061128_030707_000000322053_00204_24807_1457.N1	28-NOV-2006 03:07:07	Bright	31.500	175	39Del Per	3.0100	19400.	63	24807	No
46	GOM_NL__2PRFIN20061128_030820_000000302053_00204_24807_1458.N1	28-NOV-2006 03:08:20	Bright	29.500	160	23Gam Per	2.9300	4700.0	59	24807	No
47	GOM_NL__2PRFIN20061128_031820_000000292053_00204_24807_1459.N1	28-NOV-2006 03:18:20	Bright	28.500	49	1Alp UMi	1.9900	6300.0	57	24807	No
48	GOM_NL__2PRFIN20061128_032258_000000312053_00204_24807_1460.N1	28-NOV-2006 03:22:58	Bright	31.000	60	7Bet UMi	2.0810	3950.0	62	24807	No
49	GOM_NL__2PRFIN20061128_032816_000000342053_00204_24807_1461.N1	28-NOV-2006 03:28:16	Bright	33.500	32	77Eps UMa	1.7630	11000.	67	24807	No
50	GOM_NL__2PRFIN20061128_033015_000000292053_00204_24807_1462.N1	28-NOV-2006 03:30:15	Bright	29.000	39	85Eta UMa	1.8540	24000.	58	24807	No
51	GOM_NL__2PRFIN20061128_033305_000000292053_00204_24807_1463.N1	28-NOV-2006 03:33:05	Bright	29.000	180	27Gam Boo	3.0400	8000.0	58	24807	No
52	GOM_NL__2PRFIN20061128_033835_000000282053_00204_24807_1464.N1	28-NOV-2006 03:38:35	Bright	28.000	3	16Alp Boo	-0.050000	4250.0	56	24807	No
53	GOM_NL__2PRFIN20061128_034202_000000322053_00204_24807_1465.N1	28-NOV-2006 03:42:02	Bright	32.000	138	47Eps Vir	2.8280	4700.0	64	24807	No
54	GOM_NL__2PRFIN20061128_034615_000000362053_00204_24807_1466.N1	28-NOV-2006 03:46:15	Bright	35.500	121	29Gam Vir	2.7400	7200.0	71	24807	No
55	GOM_NL__2PRFIN20061128_034749_000000332053_00204_24807_1467.N1	28-NOV-2006 03:47:49	Bright	33.000	15	67Alp Vir	0.97600	28000.	66	24807	No
56	GOM_NL__2PRFIN20061128_035146_000000402053_00204_24807_1468.N1	28-NOV-2006 03:51:46	Tw_i_and_stray	40.000	100	4Gam Crv	2.5800	13100.	80	24807	No
57	GOM_NL__2PRFIN20061128_035320_000000402053_00204_24807_1469.N1	28-NOV-2006 03:53:20	Dark	39.500	171	2Eps Crv	3.0010	4250.0	79	24807	No
58	GOM_NL__2PRFIN20061128_040249_000000362053_00205_24808_1445.N1	28-NOV-2006 04:02:49	Dark	36.000	113	Mu Vel	2.6920	5000.0	72	24808	No
59	GOM_NL__2PRFIN20061128_040459_000000322053_00205_24808_1446.N1	28-NOV-2006 04:04:59	Dark	31.500	124	The Car	2.7640	30000.	63	24808	No
60	GOM_NL__2PRFIN20061128_040640_000000342053_00205_24808_1447.N1	28-NOV-2006 04:06:40	Dark	33.500	159	Ups Car	2.9200	7200.0	67	24808	No
61	GOM_NL__2PRFIN20061128_040748_000000342053_00205_24808_1448.N1	28-NOV-2006 04:07:48	Dark	33.500	29	Bet Car	1.6720	10200.	67	24808	No
62	GOM_NL__2PRFIN20061128_040933_000000362053_00205_24808_1449.N1	28-NOV-2006 04:09:33	Dark	36.000	41	Eps Car	1.8600	4100.0	72	24808	No
63	GOM_NL__2PRFIN20061128_041459_000000512053_00205_24808_1450.N1	28-NOV-2006 04:14:59	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	24808	No
64	GOM_NL__2PRFIN20061128_042929_000000422053_00205_24808_1451.N1	28-NOV-2006 04:29:29	Straylight	41.500	165	34Gam Eri	2.9500	3200.0	83	24808	No
65	GOM_NL__2PRFIN20061128_043451_000000392053_00205_24808_1452.N1	28-NOV-2006 04:34:51	Tw_i_and_stray	39.000	94	92Alp Cet	2.5260	3100.0	78	24808	No
66	GOM_NL__2PRFIN20061128_044052_000000342053_00205_24808_1453.N1	28-NOV-2006 04:40:52	Bright	34.000	146	25Eta Tau	2.8730	15200.	68	24808	No
67	GOM_NL__2PRFIN20061128_044317_000000322053_00205_24808_1454.N1	28-NOV-2006 04:43:17	Bright	32.000	150	44Zet Per	2.8900	28000.	64	24808	No
68	GOM_NL__2PRFIN20061128_044523_000000312053_00205_24808_1455.N1	28-NOV-2006 04:45:23	Bright	30.500	79	26Bet Per	2.3100	13100.	61	24808	No
69	GOM_NL__2PRFIN20061128_044742_000000312053_00205_24808_1456.N1	28-NOV-2006 04:47:42	Bright	30.500	175	39Del Per	3.0100	19400.	61	24808	No
70	GOM_NL__2PRFIN20061128_044856_000000302053_00205_24808_1457.N1	28-NOV-2006 04:48:56	Bright	30.000	160	23Gam Per	2.9300	4700.0	60	24808	No
71	GOM_NL__2PRFIN20061128_045857_000000292053_00205_24808_1458.N1	28-NOV-2006 04:58:57	Bright	28.500	49	1Alp UMi	1.9900	6300.0	57	24808	No
72	GOM_NL__2PRFIN20061128_050334_000000312053_00205_24808_1459.N1	28-NOV-2006 05:03:34	Bright	31.000	60	7Bet UMi	2.0810	3950.0	62	24808	No
73	GOM_NL__2PRFIN20061128_050852_000000332053_00205_24808_1460.N1	28-NOV-2006 05:08:52	Bright	33.000	32	77Eps UMa	1.7630	11000.	66	24808	No
74	GOM_NL__2PRFIN20061128_051051_000000312053_00205_24808_1461.N1	28-NOV-2006 05:10:51	Bright	31.000	39	85Eta UMa	1.8540	24000.	62	24808	No
75	GOM_NL__2PRFIN20061128_051911_000000292053_00205_24808_1462.N1	28-NOV-2006 05:19:11	Bright	28.500	3	16Alp Boo	-0.050000	4250.0	57	24808	No
76	GOM_NL__2PRFIN20061128_052239_000000342053_00205_24808_1463.N1	28-NOV-2006 05:22:39	Bright	34.000	138	47Eps Vir	2.8280	4700.0	68	24808	No
77	GOM_NL__2PRFIN20061128_052651_000000372053_00205_24808_1464.N1	28-NOV-2006 05:26:51	Bright	36.500	121	29Gam Vir	2.7400	7200.0	73	24808	No
78	GOM_NL__2PRFIN20061128_052825_000000432053_00205_24808_1465.N1	28-NOV-2006 05:28:25	Bright	42.500	15	67Alp Vir	0.97600	28000.	85	24808	No
79	GOM_NL__2PRFIN20061128_053222_000000392053_00205_24808_1466.N1	28-NOV-2006 05:32:22	Tw_i_and_stray	38.500	100	4Gam Crv	2.5800	13100.	77	24808	No
80	GOM_NL__2PRFIN20061128_053357_000000422053_00205_24808_1467.N1	28-NOV-2006 05:33:57	Dark	41.500	171	2Eps Crv	3.0010	4250.0	83	24808	No
81	GOM_NL__2PRFIN20061128_054326_000000372053_00206_24809_1444.N1	28-NOV-2006 05:43:26	Dark	36.500	113	Mu Vel	2.6920	5000.0	73	24809	No
82	GOM_NL__2PRFIN20061128_054536_000000332053_00206_24809_1445.N1	28-NOV-2006 05:45:36	Dark	32.500	124	The Car	2.7640	30000.	65	24809	No
83	GOM_NL__2PRFIN20061128_054716_000000312053_00206_24809_1446.N1	28-NOV-2006 05:47:16	Dark	31.000	159	Ups Car	2.9200	7200.0	62	24809	No
84	GOM_NL__2PRFIN20061128_054825_000000332053_00206_24809_1447.N1	28-NOV-2006 05:48:25	Dark	33.000	29	Bet Car	1.6720	10200.	66	24809	No
85	GOM_NL__2PRFIN20061128_055009_000000372053_00206_24809_1448.N1	28-NOV-2006 05:50:09	Dark	36.500	41	Eps Car	1.8600	4100.0	73	24809	No
86	GOM_NL__2PRFIN20061128_055535_000000522053_00206_24809_1449.N1	28-NOV-2006 05:55:35	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	24809	No
87	GOM_NL__2PRFIN20061128_061006_000000402053_00206_24809_1450.N1	28-NOV-2006 06:10:06	Straylight	40.000	165	34Gam Eri	2.9500	3200.0	80	24809	No
88	GOM_NL__2PRFIN20061128_061528_000000392053_00206_24809_1451.N1	28-NOV-2006 06:15:28	Tw_i_and_stray	39.000	94	92Alp Cet	2.5260	3100.0	78	24809	No
89	GOM_NL__2PRFIN20061128_062128_000000332053_00206_24809_1452.N1	28-NOV-2006 06:21:28	Bright	33.000	146	25Eta Tau	2.8730	15200.	66	24809	No
90	GOM_NL__2PRFIN20061128_062353_000000322053_00206_24809_1453.N1	28-NOV-2006 06:23:53	Bright	32.000	150	44Zet Per	2.8900	28000.	64	24809	No
91	GOM_NL__2PRFIN20061128_062559_000000302053_00206_24809_1454.N1	28-NOV-2006 06:25:59	Bright	30.000	79	26Bet Per	2.3100	13100.	60	24809	No
92	GOM_NL__2PRFIN20061128_062818_000000312053_00206_24809_1455.N1	28-NOV-2006 06:28:18	Bright	31.000	175	39Del Per	3.0100	19400.	62	24809	No
93	GOM_NL__2PRFIN20061128_062932_000000302053_00206_24809_1456.N1	28-NOV-2006 06:29:32	Bright	30.000	160	23Gam Per	2.9300	4700.0	60	24809	No
94	GOM_NL__2PRFIN20061128_063932_000000292053_00206_24809_1457.N1	28-NOV-2006 06:39:32	Bright	28.500	49	1Alp UMi	1.9900	6300.0	57	24809	No

3. Quality information per product

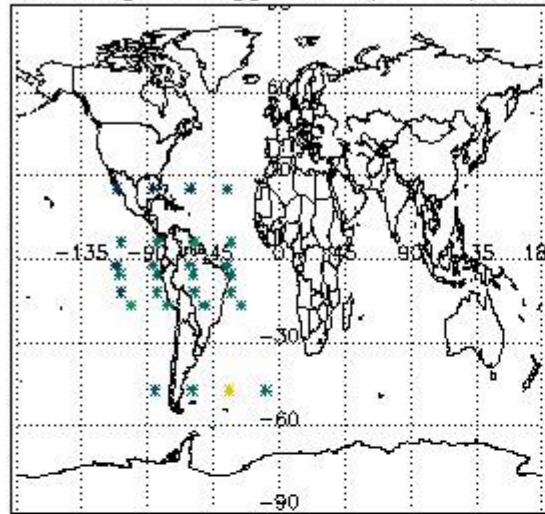
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

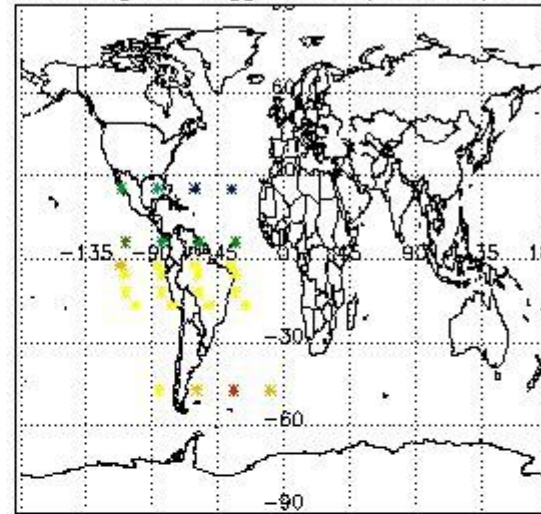


3.2 Plot quality information per product (world map)

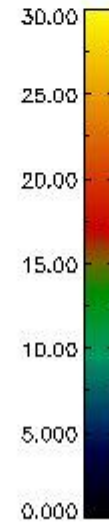
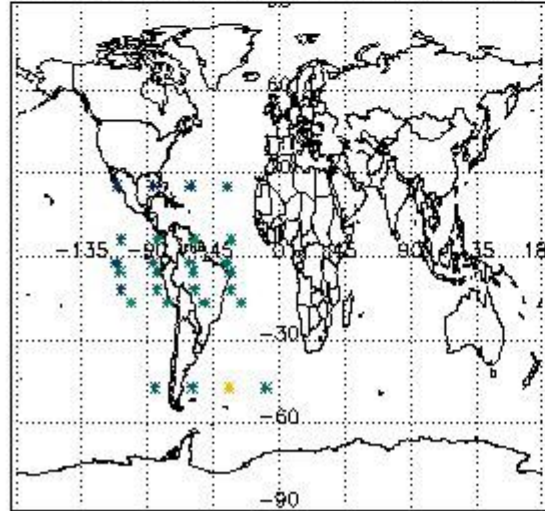
Percentage of flagged data per O3 profile



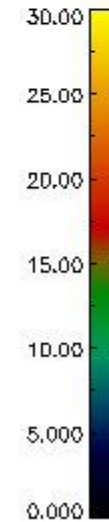
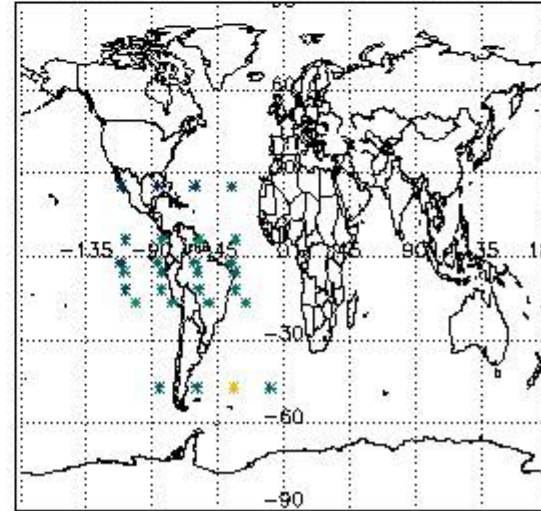
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

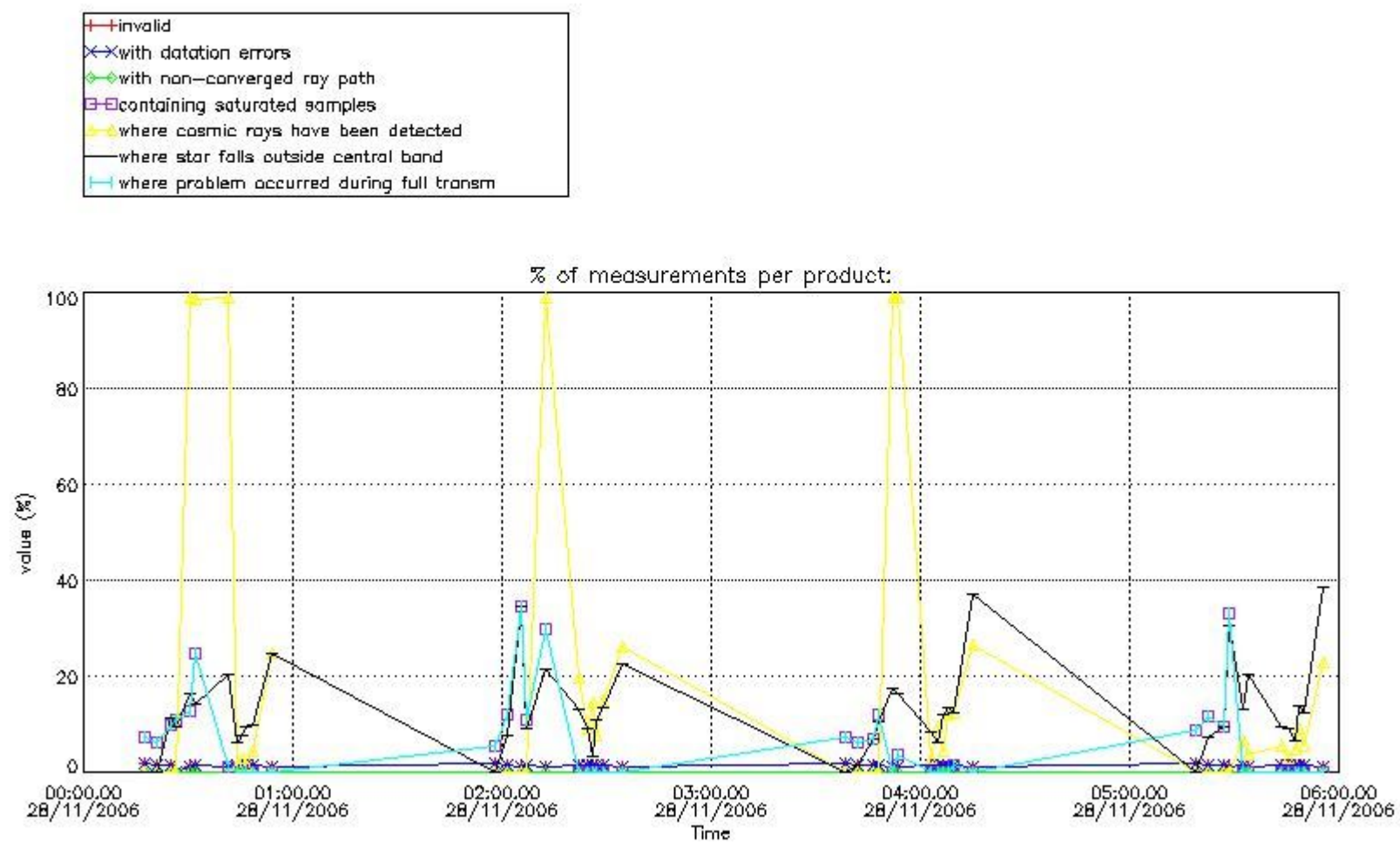


4. Level 1 quality information per product

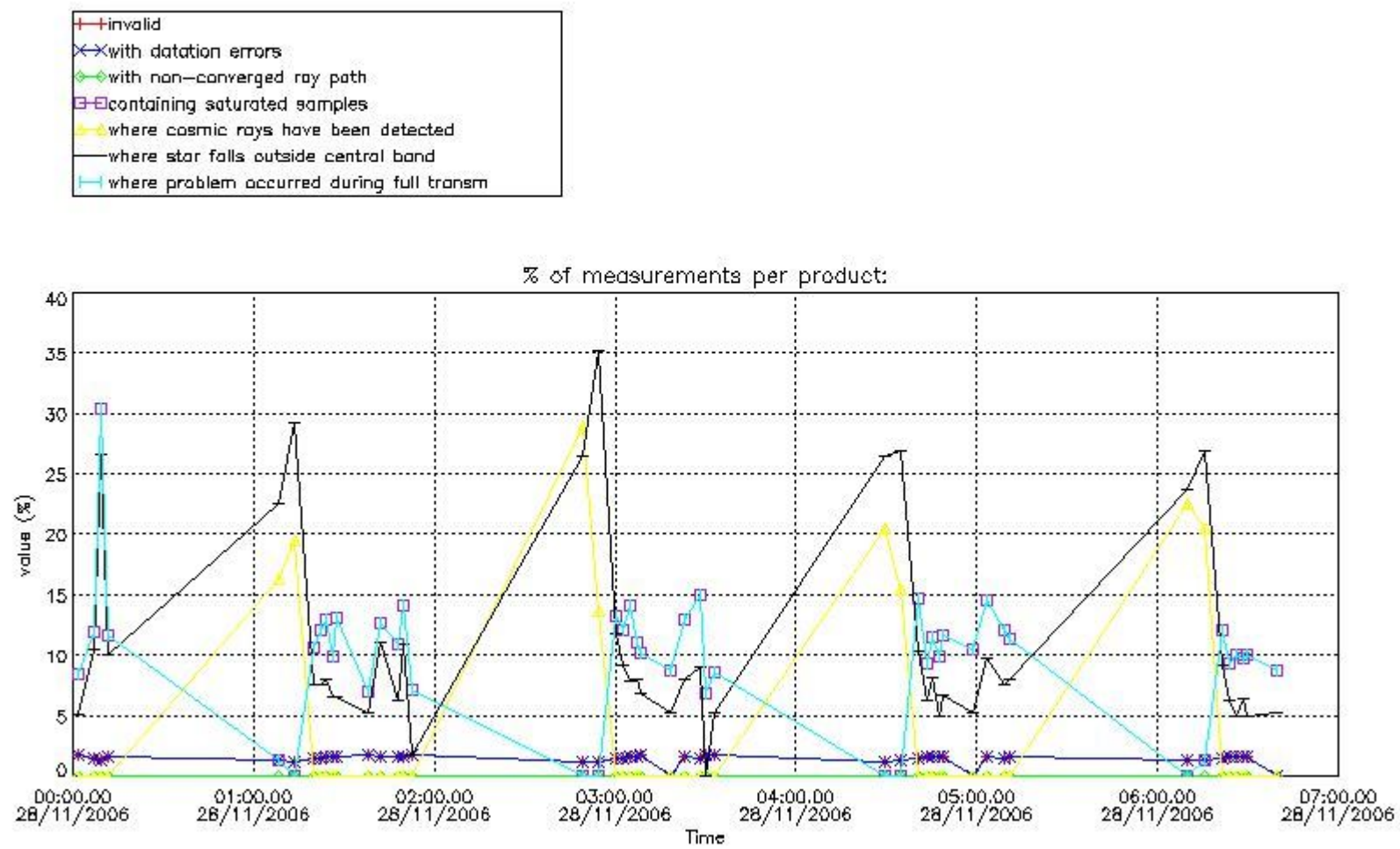
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



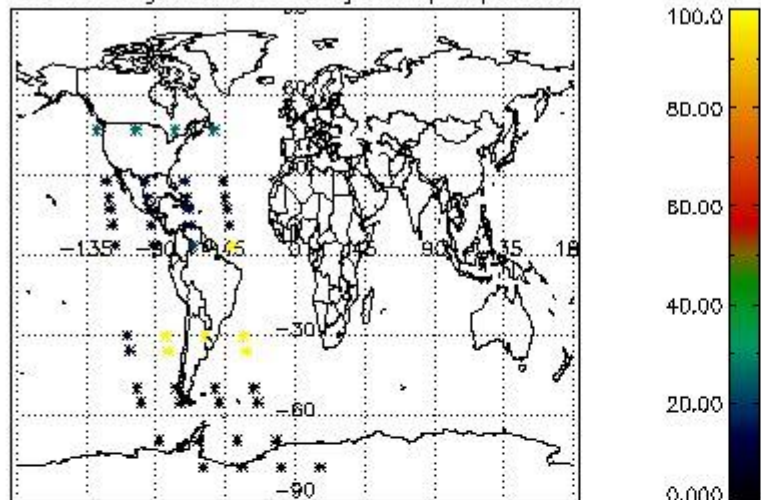
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



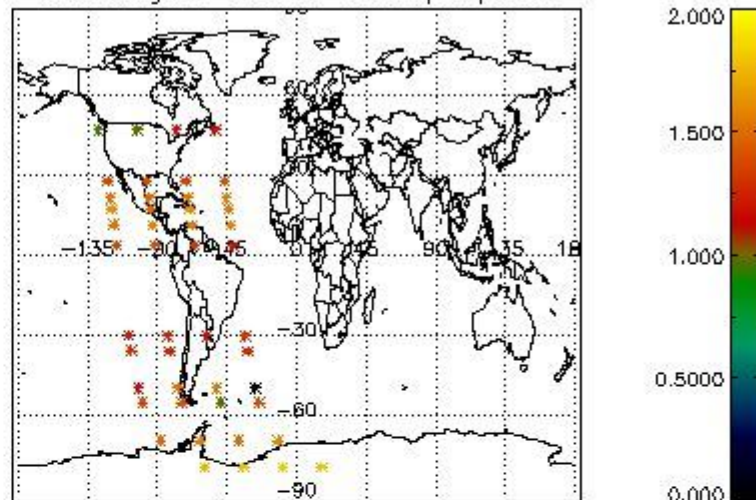
4.2 Plot quality information per product coming from level 1b processing (world map)

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

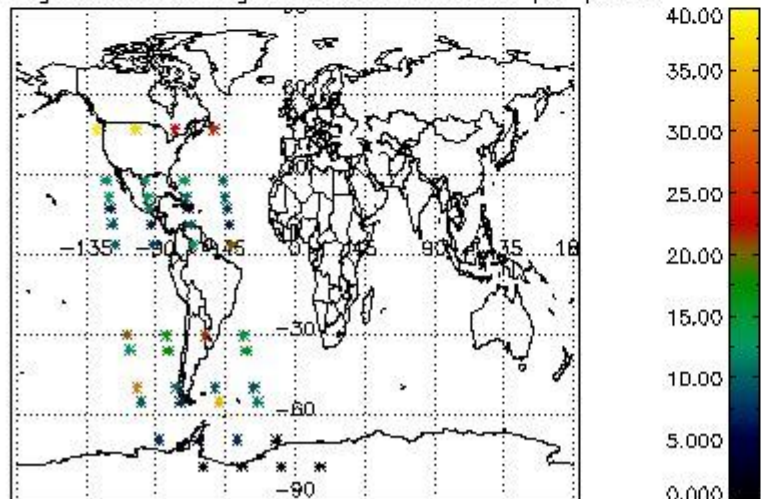
Percentage of cosmic ray hits per profile



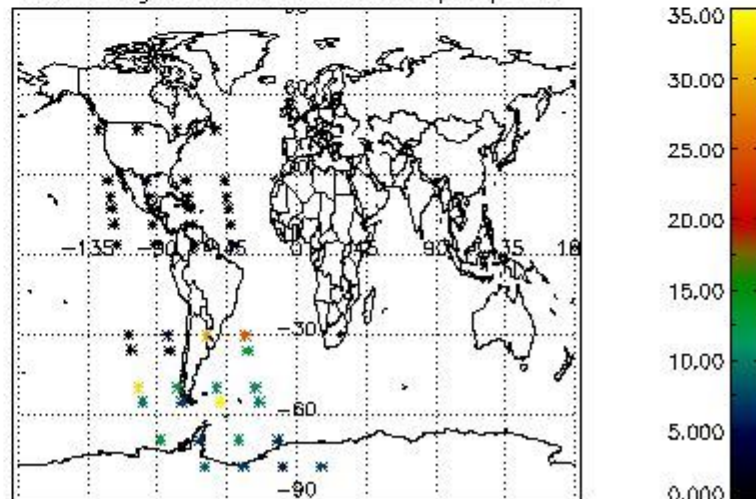
Percentage of datation errors per profile



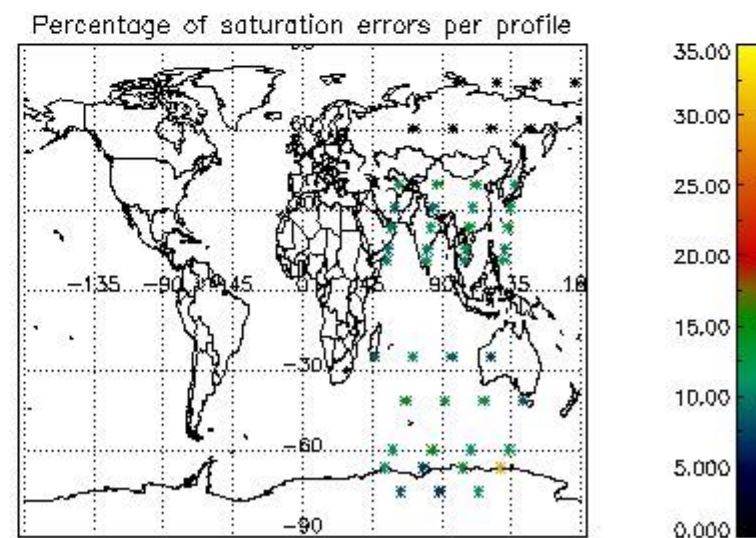
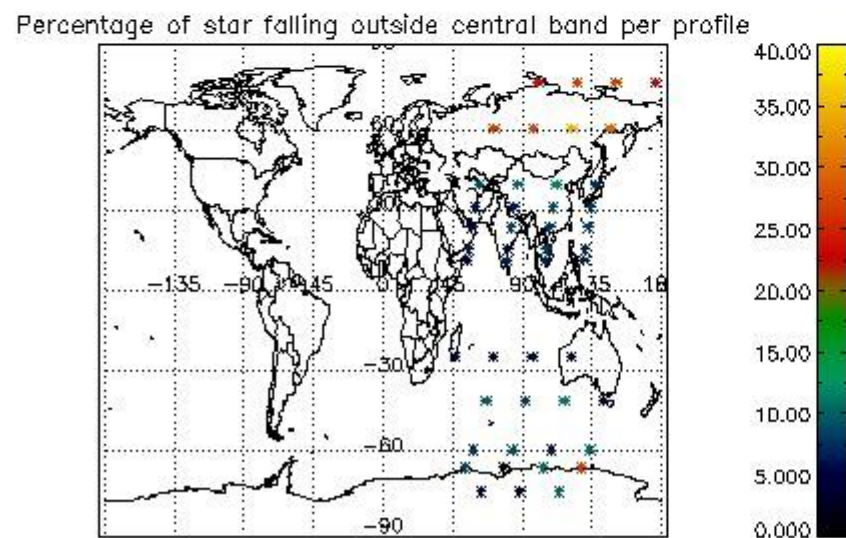
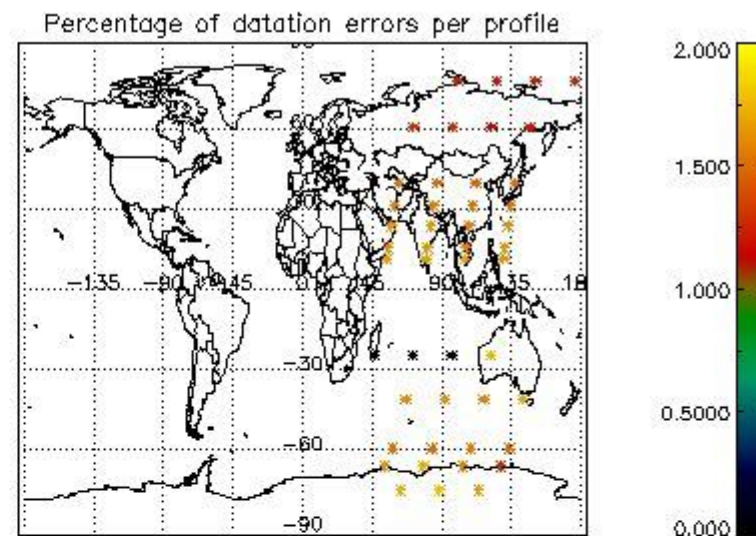
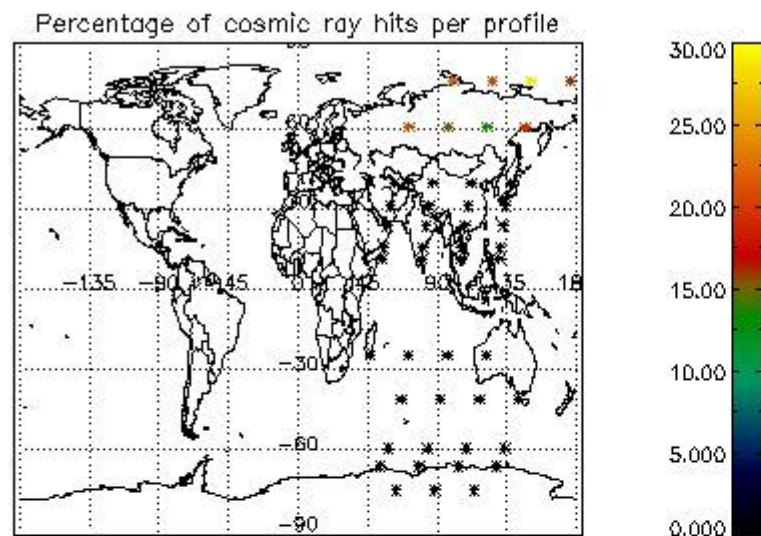
Percentage of star falling outside central band per profile



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

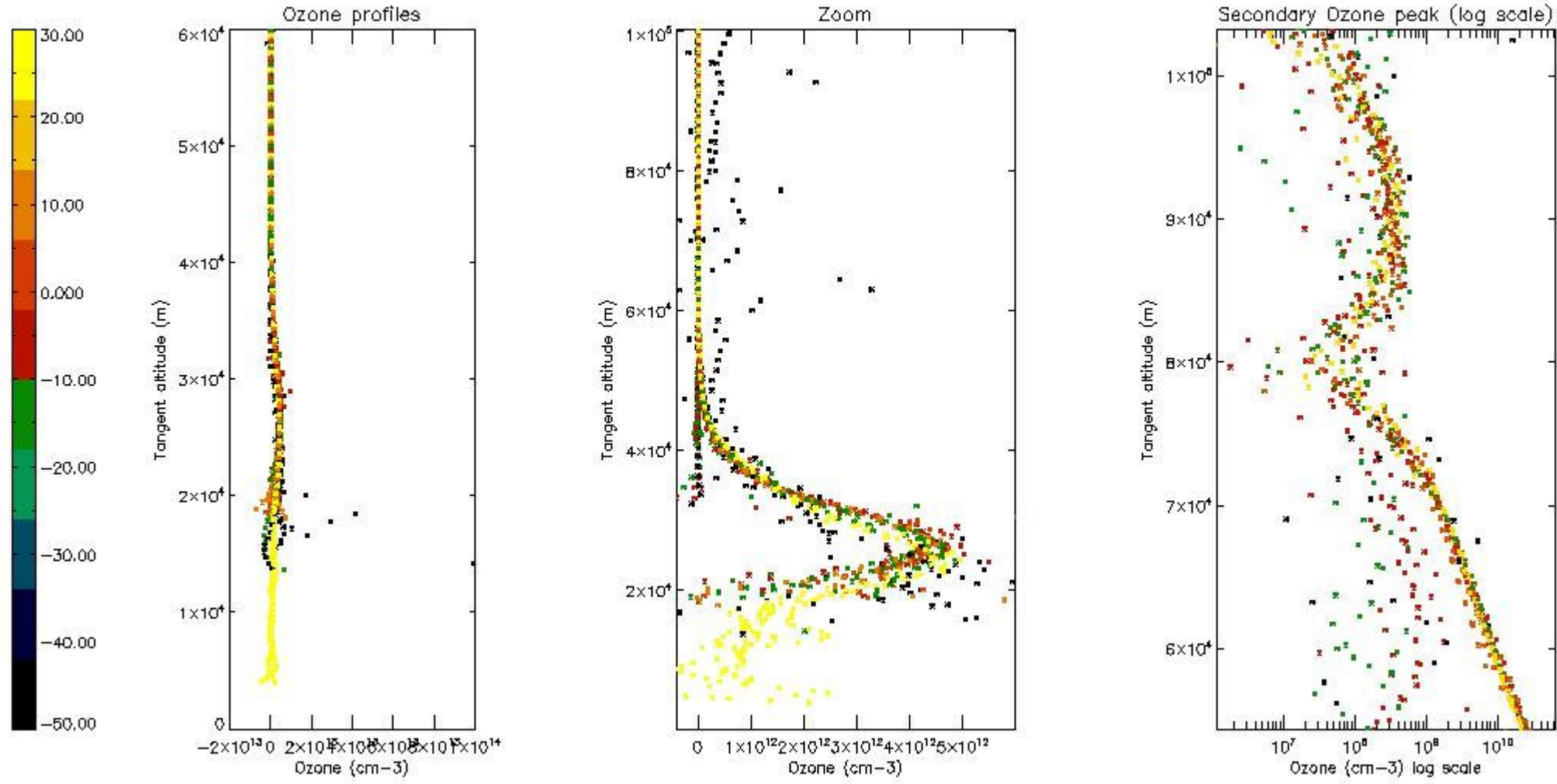
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	32
STD < 20	16

STD < 10	12
STD < 5	6

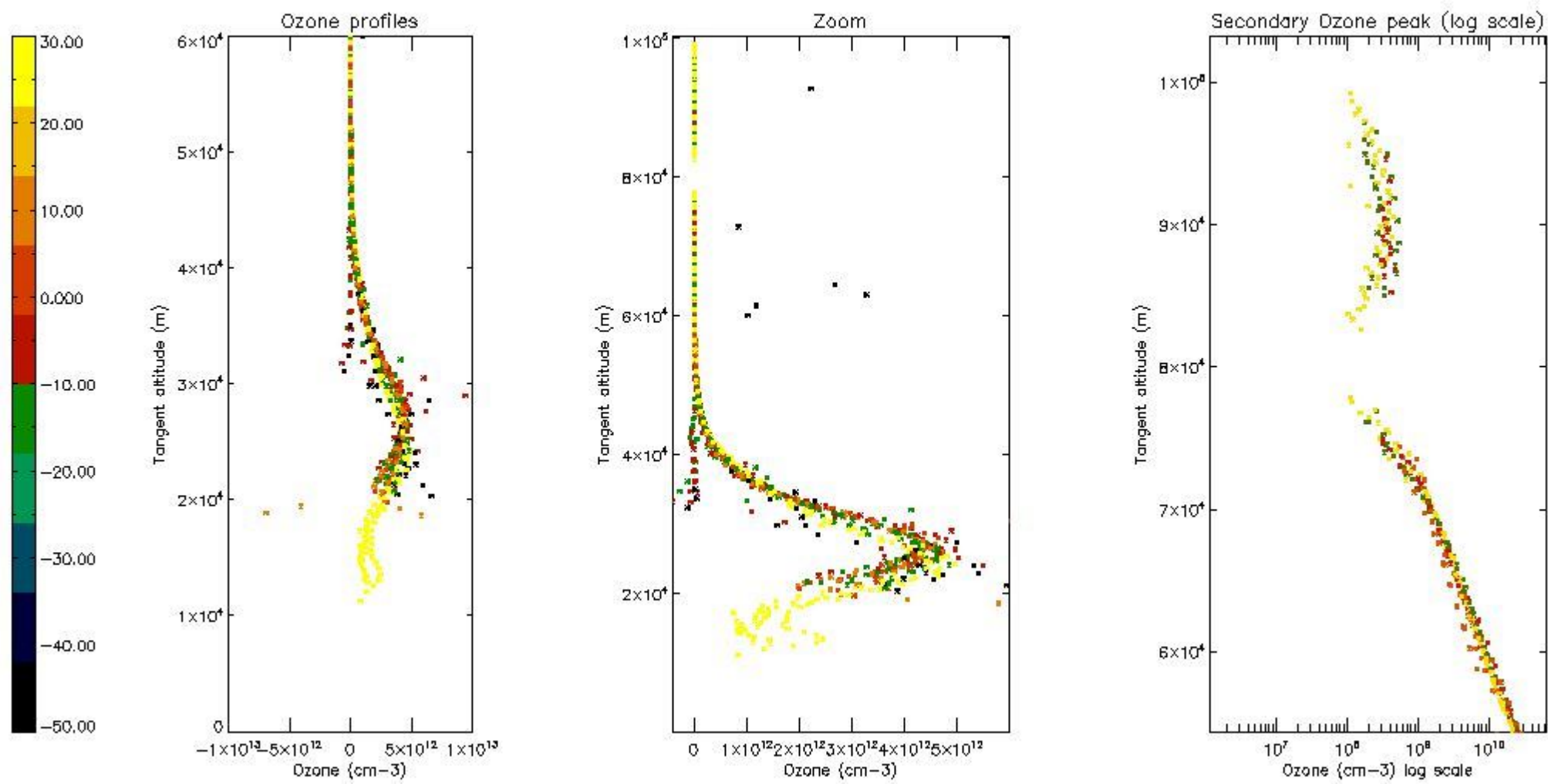
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



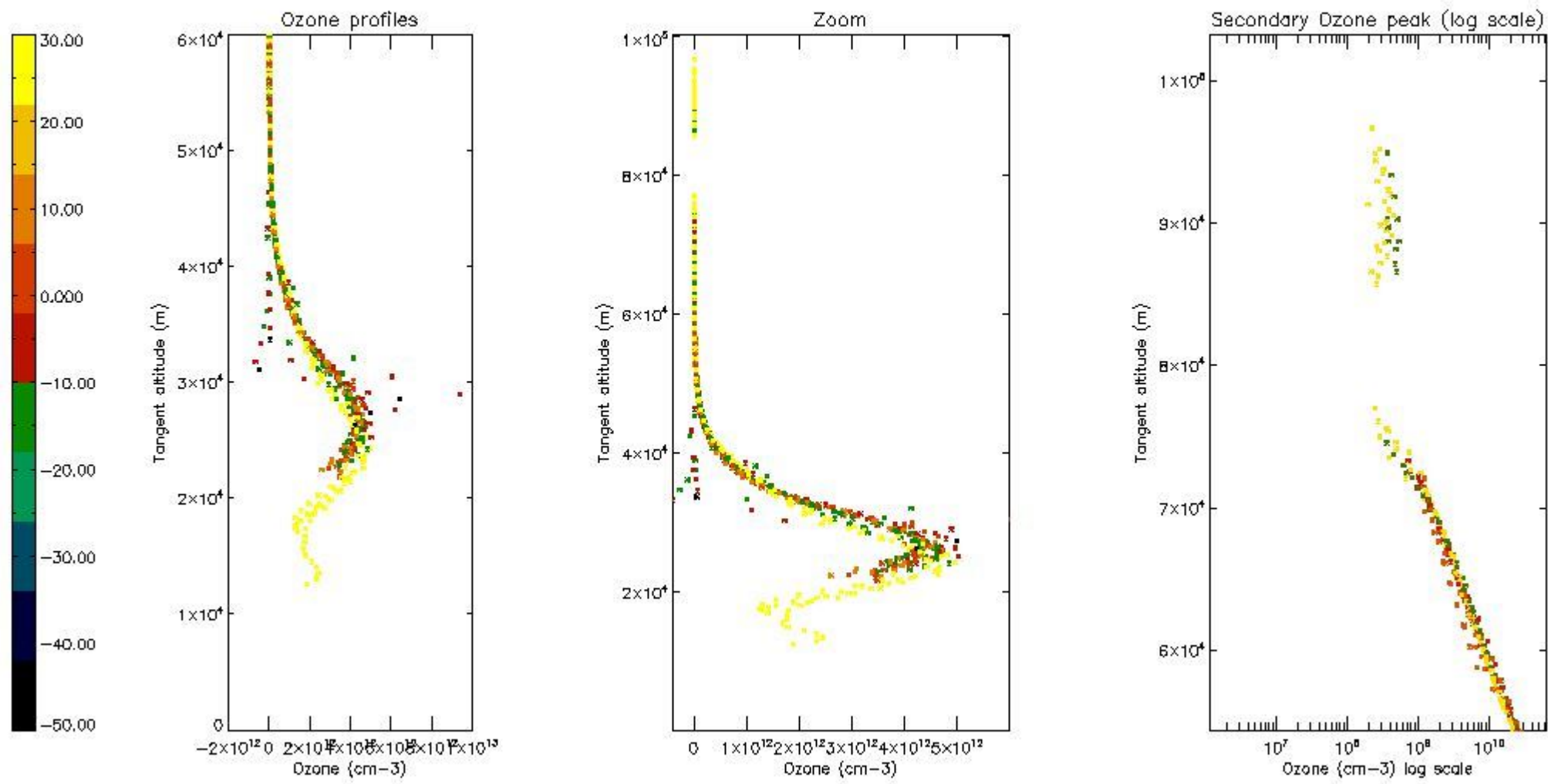
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



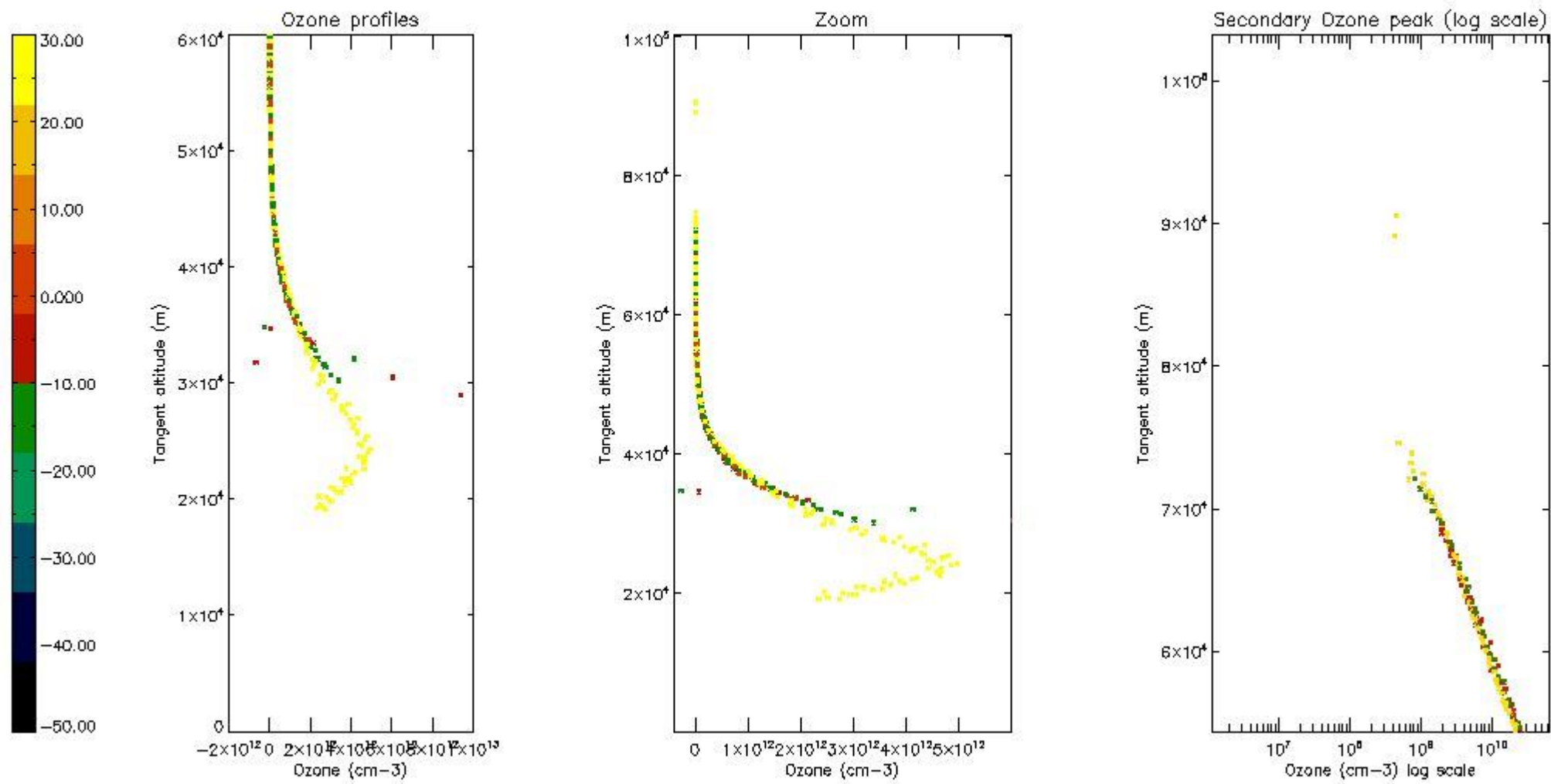
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



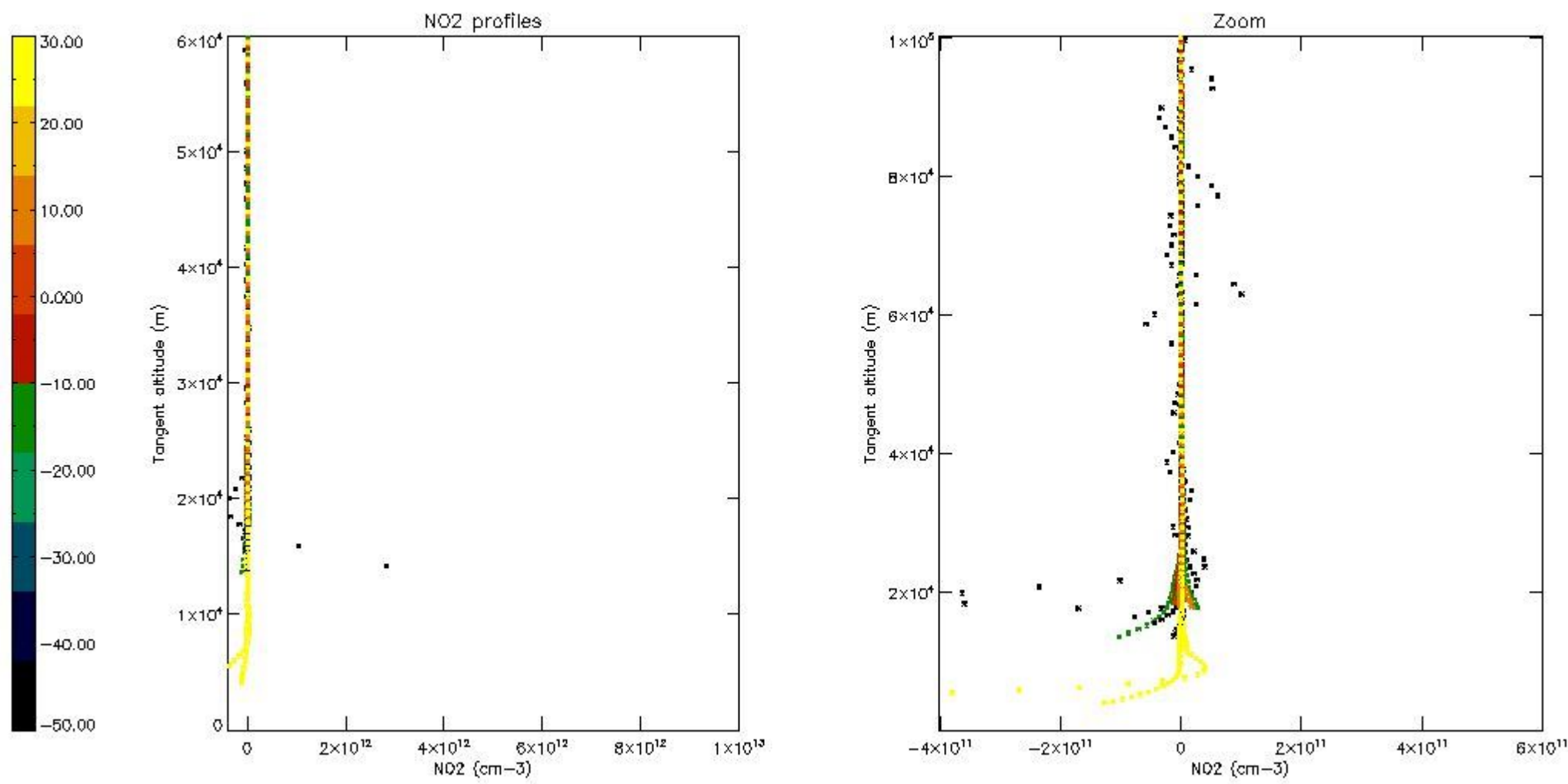
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



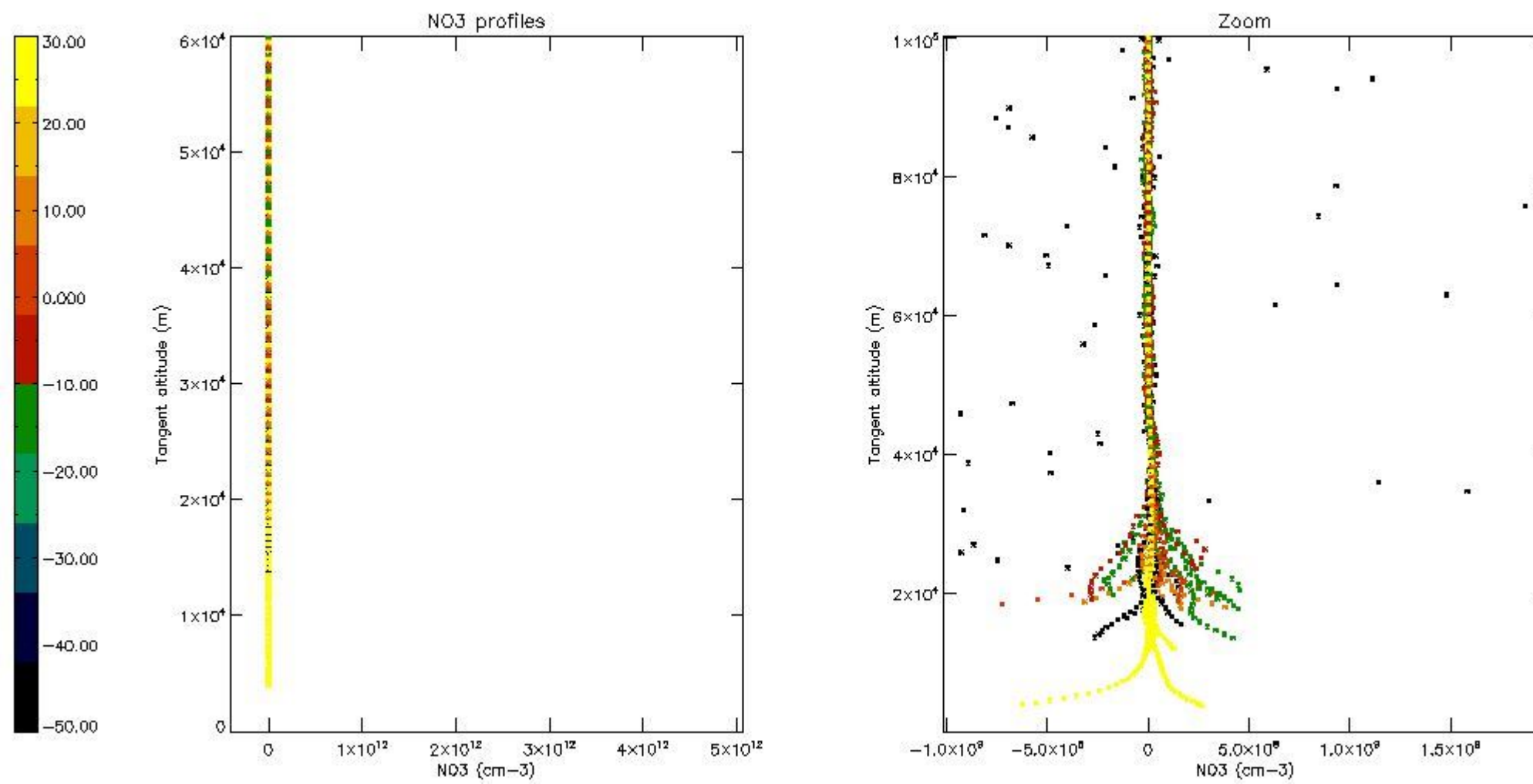
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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	28-NOV-2006 00:01:46
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	28-NOV-2006 00:01:46
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	28-NOV-2006 00:01:46

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

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

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

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[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](#)

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[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 06:06:42
Data source version	GOMOS/6.01
Start time of products	28-11-2006 (28NOV2006 00:00:00)
Stop time of products	29-11-2006 (29NOV2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	94
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

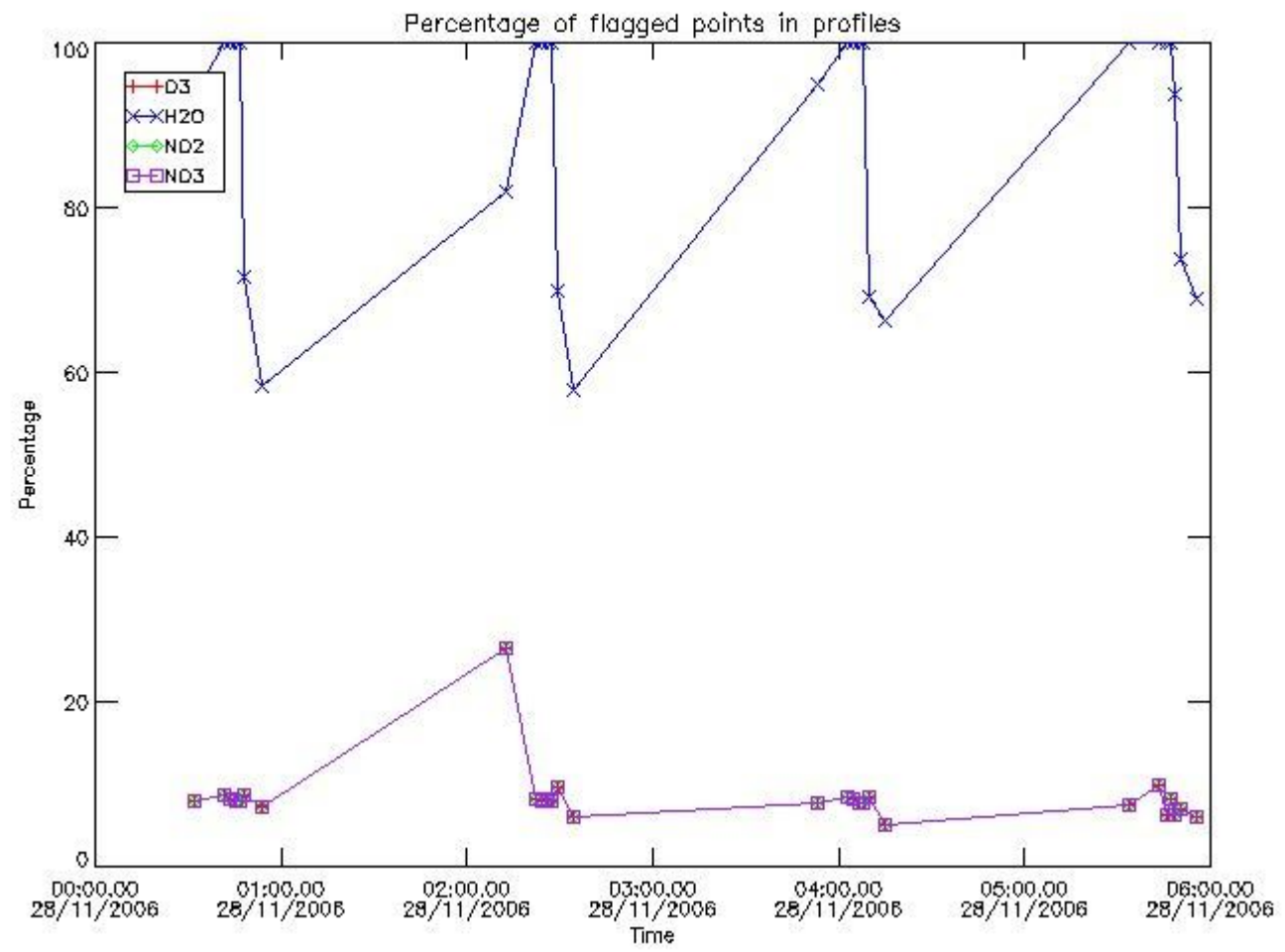
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20061128_000146_000000302053_00202_24805_1462.N1	28-NOV-2006 00:01:46	Bright	29.500	60	7Bet UMi	2.0810	3950.0	59	24805	No
2	GOM_NL__2PRFIN20061128_000705_000000342053_00202_24805_1463.N1	28-NOV-2006 00:07:05	Bright	33.500	32	77Eps UMa	1.7630	11000.	67	24805	No
3	GOM_NL__2PRFIN20061128_000903_000000402053_00202_24805_1464.N1	28-NOV-2006 00:09:03	Bright	39.500	39	85Eta UMa	1.8540	24000.	79	24805	No
4	GOM_NL__2PRFIN20061128_001152_000000302053_00202_24805_1465.N1	28-NOV-2006 00:11:52	Bright	30.000	180	27Gam Boo	3.0400	8000.0	60	24805	No
5	GOM_NL__2PRFIN20061128_001723_000000282053_00202_24805_1466.N1	28-NOV-2006 00:17:23	Bright	28.000	3	16Alp Boo	-0.050000	4250.0	56	24805	No
6	GOM_NL__2PRFIN20061128_002050_000000322053_00202_24805_1467.N1	28-NOV-2006 00:20:50	Bright	31.500	138	47Eps Vir	2.8280	4700.0	63	24805	No
7	GOM_NL__2PRFIN20061128_002502_000000362053_00202_24805_1468.N1	28-NOV-2006 00:25:02	Bright	36.000	121	29Gam Vir	2.7400	7200.0	72	24805	No
8	GOM_NL__2PRFIN20061128_002636_000000322053_00202_24805_1469.N1	28-NOV-2006 00:26:36	Bright	32.000	15	67Alp Vir	0.97600	28000.	64	24805	No
9	GOM_NL__2PRFIN20061128_003032_000000402053_00202_24805_1470.N1	28-NOV-2006 00:30:32	Twilight	39.500	100	4Gam Crv	2.5800	13100.	79	24805	No
10	GOM_NL__2PRFIN20061128_003207_000000392053_00202_24805_1471.N1	28-NOV-2006 00:32:07	Dark	38.500	171	2Eps Crv	3.0010	4250.0	77	24805	No
11	GOM_NL__2PRFIN20061128_004135_000000422053_00203_24806_1447.N1	28-NOV-2006 00:41:35	Dark	41.500	113	Mu Vel	2.6920	5000.0	83	24806	No
12	GOM_NL__2PRFIN20061128_004347_000000322053_00203_24806_1448.N1	28-NOV-2006 00:43:47	Dark	31.500	124	The Car	2.7640	30000.	63	24806	No
13	GOM_NL__2PRFIN20061128_004527_000000332053_00203_24806_1449.N1	28-NOV-2006 00:45:27	Dark	32.500	159	Ups Car	2.9200	7200.0	65	24806	No
14	GOM_NL__2PRFIN20061128_004636_000000322053_00203_24806_1450.N1	28-NOV-2006 00:46:36	Dark	32.000	29	Bet Car	1.6720	10200.	64	24806	No
15	GOM_NL__2PRFIN20061128_004820_000000362053_00203_24806_1451.N1	28-NOV-2006 00:48:20	Dark	35.500	41	Eps Car	1.8600	4100.0	71	24806	No
16	GOM_NL__2PRFIN20061128_005345_000000432053_00203_24806_1452.N1	28-NOV-2006 00:53:45	Dark	42.500	2	Alp Car	-0.73600	7000.0	85	24806	No
17	GOM_NL__2PRFIN20061128_010817_000000402053_00203_24806_1453.N1	28-NOV-2006 01:08:17	Straylight	40.000	165	34Gam Eri	2.9500	3200.0	80	24806	No
18	GOM_NL__2PRFIN20061128_011339_000000412053_00203_24806_1454.N1	28-NOV-2006 01:13:39	Twilight	41.000	94	92Alp Cet	2.5260	3100.0	82	24806	No
19	GOM_NL__2PRFIN20061128_011940_000000332053_00203_24806_1455.N1	28-NOV-2006 01:19:40	Bright	33.000	146	25Eta Tau	2.8730	15200.	66	24806	No
20	GOM_NL__2PRFIN20061128_012205_000000332053_00203_24806_1456.N1	28-NOV-2006 01:22:05	Bright	33.000	150	44Zet Per	2.8900	28000.	66	24806	No
21	GOM_NL__2PRFIN20061128_012411_000000312053_00203_24806_1457.N1	28-NOV-2006 01:24:11	Bright	31.000	79	26Bet Per	2.3100	13100.	62	24806	No
22	GOM_NL__2PRFIN20061128_012631_000000312053_00203_24806_1458.N1	28-NOV-2006 01:26:31	Bright	30.500	175	39Del Per	3.0100	19400.	61	24806	No
23	GOM_NL__2PRFIN20061128_012744_000000312053_00203_24806_1459.N1	28-NOV-2006 01:27:44	Bright	30.500	160	23Gam Per	2.9300	4700.0	61	24806	No
24	GOM_NL__2PRFIN20061128_013744_000000292053_00203_24806_1460.N1	28-NOV-2006 01:37:44	Bright	28.500	49	1Alp UMi	1.9900	6300.0	57	24806	No
25	GOM_NL__2PRFIN20061128_014222_000000322053_00203_24806_1461.N1	28-NOV-2006 01:42:22	Bright	31.500	60	7Bet UMi	2.0810	3950.0	63	24806	No
26	GOM_NL__2PRFIN20061128_014741_000000322053_00203_24806_1462.N1	28-NOV-2006 01:47:41	Bright	32.000	32	77Eps UMa	1.7630	11000.	64	24806	No
27	GOM_NL__2PRFIN20061128_014939_000000322053_00203_24806_1463.N1	28-NOV-2006 01:49:39	Bright	32.000	39	85Eta UMa	1.8540	24000.	64	24806	No
28	GOM_NL__2PRFIN20061128_015229_000000282053_00203_24806_1464.N1	28-NOV-2006 01:52:29	Bright	28.000	180	27Gam Boo	3.0400	8000.0	56	24806	No
29	GOM_NL__2PRFIN20061128_015759_000000282053_00203_24806_1465.N1	28-NOV-2006 01:57:59	Bright	27.500	3	16Alp Boo	-0.050000	4250.0	55	24806	No
30	GOM_NL__2PRFIN20061128_020126_000000342053_00203_24806_1466.N1	28-NOV-2006 02:01:26	Bright	33.500	138	47Eps Vir	2.8280	4700.0	67	24806	No
31	GOM_NL__2PRFIN20061128_020538_000000512053_00203_24806_1467.N1	28-NOV-2006 02:05:38	Bright	50.500	121	29Gam Vir	2.7400	7200.0	101	24806	No
32	GOM_NL__2PRFIN20061128_020712_000000332053_00203_24806_1468.N1	28-NOV-2006 02:07:12	Bright	32.500	15	67Alp Vir	0.97600	28000.	65	24806	No
33	GOM_NL__2PRFIN20061128_021244_000000422053_00203_24806_1469.N1	28-NOV-2006 02:12:44	Dark	42.000	171	2Eps Crv	3.0010	4250.0	84	24806	No
34	GOM_NL__2PRFIN20061128_022212_000000382053_00204_24807_1446.N1	28-NOV-2006 02:22:12	Dark	38.000	113	Mu Vel	2.6920	5000.0	76	24807	No
35	GOM_NL__2PRFIN20061128_022423_000000332053_00204_24807_1447.N1	28-NOV-2006 02:24:23	Dark	32.500	124	The Car	2.7640	30000.	65	24807	No
36	GOM_NL__2PRFIN20061128_022603_000000312053_00204_24807_1448.N1	28-NOV-2006 02:26:03	Dark	31.000	159	Ups Car	2.9200	7200.0	62	24807	No
37	GOM_NL__2PRFIN20061128_022712_000000332053_00204_24807_1449.N1	28-NOV-2006 02:27:12	Dark	32.500	29	Bet Car	1.6720	10200.	65	24807	No
38	GOM_NL__2PRFIN20061128_022856_000000372053_00204_24807_1450.N1	28-NOV-2006 02:28:56	Dark	37.000	41	Eps Car	1.8600	4100.0	74	24807	No
39	GOM_NL__2PRFIN20061128_023422_000000422053_00204_24807_1451.N1	28-NOV-2006 02:34:22	Dark	42.000	2	Alp Car	-0.73600	7000.0	84	24807	No
40	GOM_NL__2PRFIN20061128_024853_000000422053_00204_24807_1452.N1	28-NOV-2006 02:48:53	Straylight	41.500	165	34Gam Eri	2.9500	3200.0	83	24807	No
41	GOM_NL__2PRFIN20061128_025415_000000442053_00204_24807_1453.N1	28-NOV-2006 02:54:15	Twilight	44.000	94	92Alp Cet	2.5260	3100.0	88	24807	No
42	GOM_NL__2PRFIN20061128_030016_000000342053_00204_24807_1454.N1	28-NOV-2006 03:00:16	Bright	34.000	146	25Eta Tau	2.8730	15200.	68	24807	No

43	GOM_NL__2PRFIN20061128_030241_000000332053_00204_24807_1455.N1	28-NOV-2006 03:02:41	Bright	33.000	150	44Zet Per	2.8900	28000.	66	24807	No
44	GOM_NL__2PRFIN20061128_030447_000000322053_00204_24807_1456.N1	28-NOV-2006 03:04:47	Bright	32.000	79	26Bet Per	2.3100	13100.	64	24807	No
45	GOM_NL__2PRFIN20061128_030707_000000322053_00204_24807_1457.N1	28-NOV-2006 03:07:07	Bright	31.500	175	39Del Per	3.0100	19400.	63	24807	No
46	GOM_NL__2PRFIN20061128_030820_000000302053_00204_24807_1458.N1	28-NOV-2006 03:08:20	Bright	29.500	160	23Gam Per	2.9300	4700.0	59	24807	No
47	GOM_NL__2PRFIN20061128_031820_000000292053_00204_24807_1459.N1	28-NOV-2006 03:18:20	Bright	28.500	49	1Alp UMi	1.9900	6300.0	57	24807	No
48	GOM_NL__2PRFIN20061128_032258_000000312053_00204_24807_1460.N1	28-NOV-2006 03:22:58	Bright	31.000	60	7Bet UMi	2.0810	3950.0	62	24807	No
49	GOM_NL__2PRFIN20061128_032816_000000342053_00204_24807_1461.N1	28-NOV-2006 03:28:16	Bright	33.500	32	77Eps UMa	1.7630	11000.	67	24807	No
50	GOM_NL__2PRFIN20061128_033015_000000292053_00204_24807_1462.N1	28-NOV-2006 03:30:15	Bright	29.000	39	85Eta UMa	1.8540	24000.	58	24807	No
51	GOM_NL__2PRFIN20061128_033305_000000292053_00204_24807_1463.N1	28-NOV-2006 03:33:05	Bright	29.000	180	27Gam Boo	3.0400	8000.0	58	24807	No
52	GOM_NL__2PRFIN20061128_033835_000000282053_00204_24807_1464.N1	28-NOV-2006 03:38:35	Bright	28.000	3	16Alp Boo	-0.050000	4250.0	56	24807	No
53	GOM_NL__2PRFIN20061128_034202_000000322053_00204_24807_1465.N1	28-NOV-2006 03:42:02	Bright	32.000	138	47Eps Vir	2.8280	4700.0	64	24807	No
54	GOM_NL__2PRFIN20061128_034615_000000362053_00204_24807_1466.N1	28-NOV-2006 03:46:15	Bright	35.500	121	29Gam Vir	2.7400	7200.0	71	24807	No
55	GOM_NL__2PRFIN20061128_034749_000000332053_00204_24807_1467.N1	28-NOV-2006 03:47:49	Bright	33.000	15	67Alp Vir	0.97600	28000.	66	24807	No
56	GOM_NL__2PRFIN20061128_035146_000000402053_00204_24807_1468.N1	28-NOV-2006 03:51:46	Tw_i_and_stray	40.000	100	4Gam Crv	2.5800	13100.	80	24807	No
57	GOM_NL__2PRFIN20061128_035320_000000402053_00204_24807_1469.N1	28-NOV-2006 03:53:20	Dark	39.500	171	2Eps Crv	3.0010	4250.0	79	24807	No
58	GOM_NL__2PRFIN20061128_040249_000000362053_00205_24808_1445.N1	28-NOV-2006 04:02:49	Dark	36.000	113	Mu Vel	2.6920	5000.0	72	24808	No
59	GOM_NL__2PRFIN20061128_040459_000000322053_00205_24808_1446.N1	28-NOV-2006 04:04:59	Dark	31.500	124	The Car	2.7640	30000.	63	24808	No
60	GOM_NL__2PRFIN20061128_040640_000000342053_00205_24808_1447.N1	28-NOV-2006 04:06:40	Dark	33.500	159	Ups Car	2.9200	7200.0	67	24808	No
61	GOM_NL__2PRFIN20061128_040748_000000342053_00205_24808_1448.N1	28-NOV-2006 04:07:48	Dark	33.500	29	Bet Car	1.6720	10200.	67	24808	No
62	GOM_NL__2PRFIN20061128_040933_000000362053_00205_24808_1449.N1	28-NOV-2006 04:09:33	Dark	36.000	41	Eps Car	1.8600	4100.0	72	24808	No
63	GOM_NL__2PRFIN20061128_041459_000000512053_00205_24808_1450.N1	28-NOV-2006 04:14:59	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	24808	No
64	GOM_NL__2PRFIN20061128_042929_000000422053_00205_24808_1451.N1	28-NOV-2006 04:29:29	Straylight	41.500	165	34Gam Eri	2.9500	3200.0	83	24808	No
65	GOM_NL__2PRFIN20061128_043451_000000392053_00205_24808_1452.N1	28-NOV-2006 04:34:51	Tw_i_and_stray	39.000	94	92Alp Cet	2.5260	3100.0	78	24808	No
66	GOM_NL__2PRFIN20061128_044052_000000342053_00205_24808_1453.N1	28-NOV-2006 04:40:52	Bright	34.000	146	25Eta Tau	2.8730	15200.	68	24808	No
67	GOM_NL__2PRFIN20061128_044317_000000322053_00205_24808_1454.N1	28-NOV-2006 04:43:17	Bright	32.000	150	44Zet Per	2.8900	28000.	64	24808	No
68	GOM_NL__2PRFIN20061128_044523_000000312053_00205_24808_1455.N1	28-NOV-2006 04:45:23	Bright	30.500	79	26Bet Per	2.3100	13100.	61	24808	No
69	GOM_NL__2PRFIN20061128_044742_000000312053_00205_24808_1456.N1	28-NOV-2006 04:47:42	Bright	30.500	175	39Del Per	3.0100	19400.	61	24808	No
70	GOM_NL__2PRFIN20061128_044856_000000302053_00205_24808_1457.N1	28-NOV-2006 04:48:56	Bright	30.000	160	23Gam Per	2.9300	4700.0	60	24808	No
71	GOM_NL__2PRFIN20061128_045857_000000292053_00205_24808_1458.N1	28-NOV-2006 04:58:57	Bright	28.500	49	1Alp UMi	1.9900	6300.0	57	24808	No
72	GOM_NL__2PRFIN20061128_050334_000000312053_00205_24808_1459.N1	28-NOV-2006 05:03:34	Bright	31.000	60	7Bet UMi	2.0810	3950.0	62	24808	No
73	GOM_NL__2PRFIN20061128_050852_000000332053_00205_24808_1460.N1	28-NOV-2006 05:08:52	Bright	33.000	32	77Eps UMa	1.7630	11000.	66	24808	No
74	GOM_NL__2PRFIN20061128_051051_000000312053_00205_24808_1461.N1	28-NOV-2006 05:10:51	Bright	31.000	39	85Eta UMa	1.8540	24000.	62	24808	No
75	GOM_NL__2PRFIN20061128_051911_000000292053_00205_24808_1462.N1	28-NOV-2006 05:19:11	Bright	28.500	3	16Alp Boo	-0.050000	4250.0	57	24808	No
76	GOM_NL__2PRFIN20061128_052239_000000342053_00205_24808_1463.N1	28-NOV-2006 05:22:39	Bright	34.000	138	47Eps Vir	2.8280	4700.0	68	24808	No
77	GOM_NL__2PRFIN20061128_052651_000000372053_00205_24808_1464.N1	28-NOV-2006 05:26:51	Bright	36.500	121	29Gam Vir	2.7400	7200.0	73	24808	No
78	GOM_NL__2PRFIN20061128_052825_000000432053_00205_24808_1465.N1	28-NOV-2006 05:28:25	Bright	42.500	15	67Alp Vir	0.97600	28000.	85	24808	No
79	GOM_NL__2PRFIN20061128_053222_000000392053_00205_24808_1466.N1	28-NOV-2006 05:32:22	Tw_i_and_stray	38.500	100	4Gam Crv	2.5800	13100.	77	24808	No
80	GOM_NL__2PRFIN20061128_053357_000000422053_00205_24808_1467.N1	28-NOV-2006 05:33:57	Dark	41.500	171	2Eps Crv	3.0010	4250.0	83	24808	No
81	GOM_NL__2PRFIN20061128_054326_000000372053_00206_24809_1444.N1	28-NOV-2006 05:43:26	Dark	36.500	113	Mu Vel	2.6920	5000.0	73	24809	No
82	GOM_NL__2PRFIN20061128_054536_000000332053_00206_24809_1445.N1	28-NOV-2006 05:45:36	Dark	32.500	124	The Car	2.7640	30000.	65	24809	No
83	GOM_NL__2PRFIN20061128_054716_000000312053_00206_24809_1446.N1	28-NOV-2006 05:47:16	Dark	31.000	159	Ups Car	2.9200	7200.0	62	24809	No
84	GOM_NL__2PRFIN20061128_054825_000000332053_00206_24809_1447.N1	28-NOV-2006 05:48:25	Dark	33.000	29	Bet Car	1.6720	10200.	66	24809	No
85	GOM_NL__2PRFIN20061128_055009_000000372053_00206_24809_1448.N1	28-NOV-2006 05:50:09	Dark	36.500	41	Eps Car	1.8600	4100.0	73	24809	No
86	GOM_NL__2PRFIN20061128_055535_000000522053_00206_24809_1449.N1	28-NOV-2006 05:55:35	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	24809	No
87	GOM_NL__2PRFIN20061128_061006_000000402053_00206_24809_1450.N1	28-NOV-2006 06:10:06	Straylight	40.000	165	34Gam Eri	2.9500	3200.0	80	24809	No
88	GOM_NL__2PRFIN20061128_061528_000000392053_00206_24809_1451.N1	28-NOV-2006 06:15:28	Tw_i_and_stray	39.000	94	92Alp Cet	2.5260	3100.0	78	24809	No
89	GOM_NL__2PRFIN20061128_062128_000000332053_00206_24809_1452.N1	28-NOV-2006 06:21:28	Bright	33.000	146	25Eta Tau	2.8730	15200.	66	24809	No
90	GOM_NL__2PRFIN20061128_062353_000000322053_00206_24809_1453.N1	28-NOV-2006 06:23:53	Bright	32.000	150	44Zet Per	2.8900	28000.	64	24809	No
91	GOM_NL__2PRFIN20061128_062559_000000302053_00206_24809_1454.N1	28-NOV-2006 06:25:59	Bright	30.000	79	26Bet Per	2.3100	13100.	60	24809	No
92	GOM_NL__2PRFIN20061128_062818_000000312053_00206_24809_1455.N1	28-NOV-2006 06:28:18	Bright	31.000	175	39Del Per	3.0100	19400.	62	24809	No
93	GOM_NL__2PRFIN20061128_062932_000000302053_00206_24809_1456.N1	28-NOV-2006 06:29:32	Bright	30.000	160	23Gam Per	2.9300	4700.0	60	24809	No
94	GOM_NL__2PRFIN20061128_063932_000000292053_00206_24809_1457.N1	28-NOV-2006 06:39:32	Bright	28.500	49	1Alp UMi	1.9900	6300.0	57	24809	No

3. Quality information per product

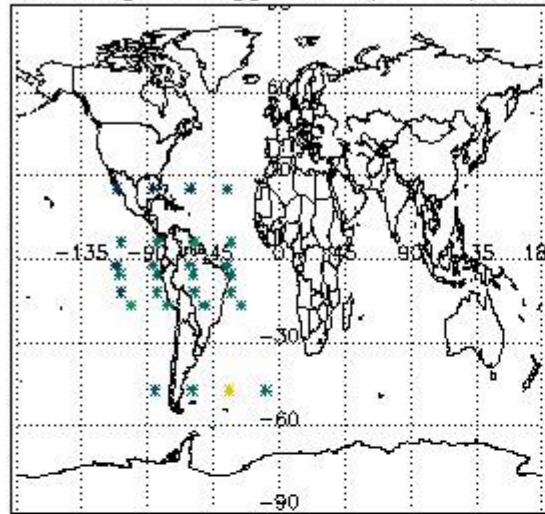
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

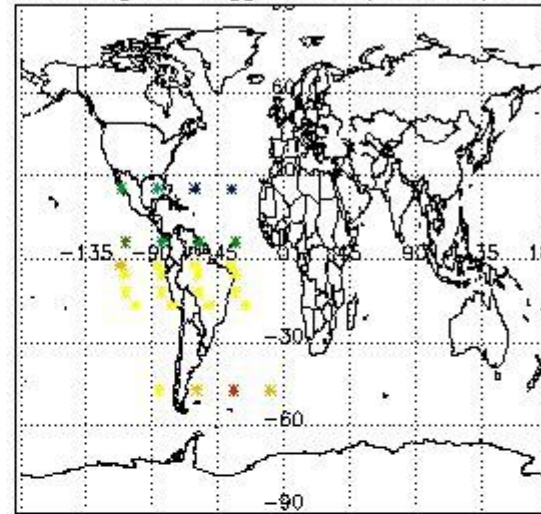


3.2 Plot quality information per product (world map)

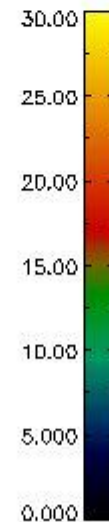
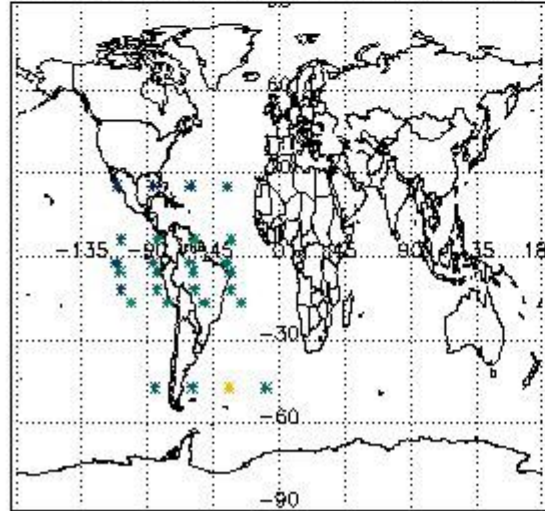
Percentage of flagged data per O3 profile



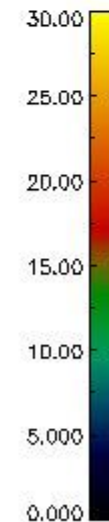
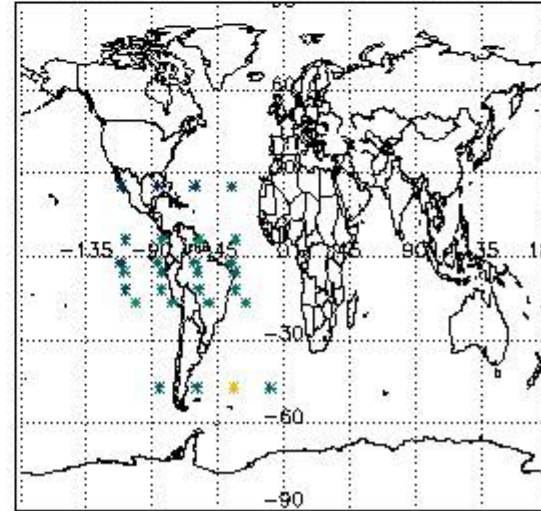
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

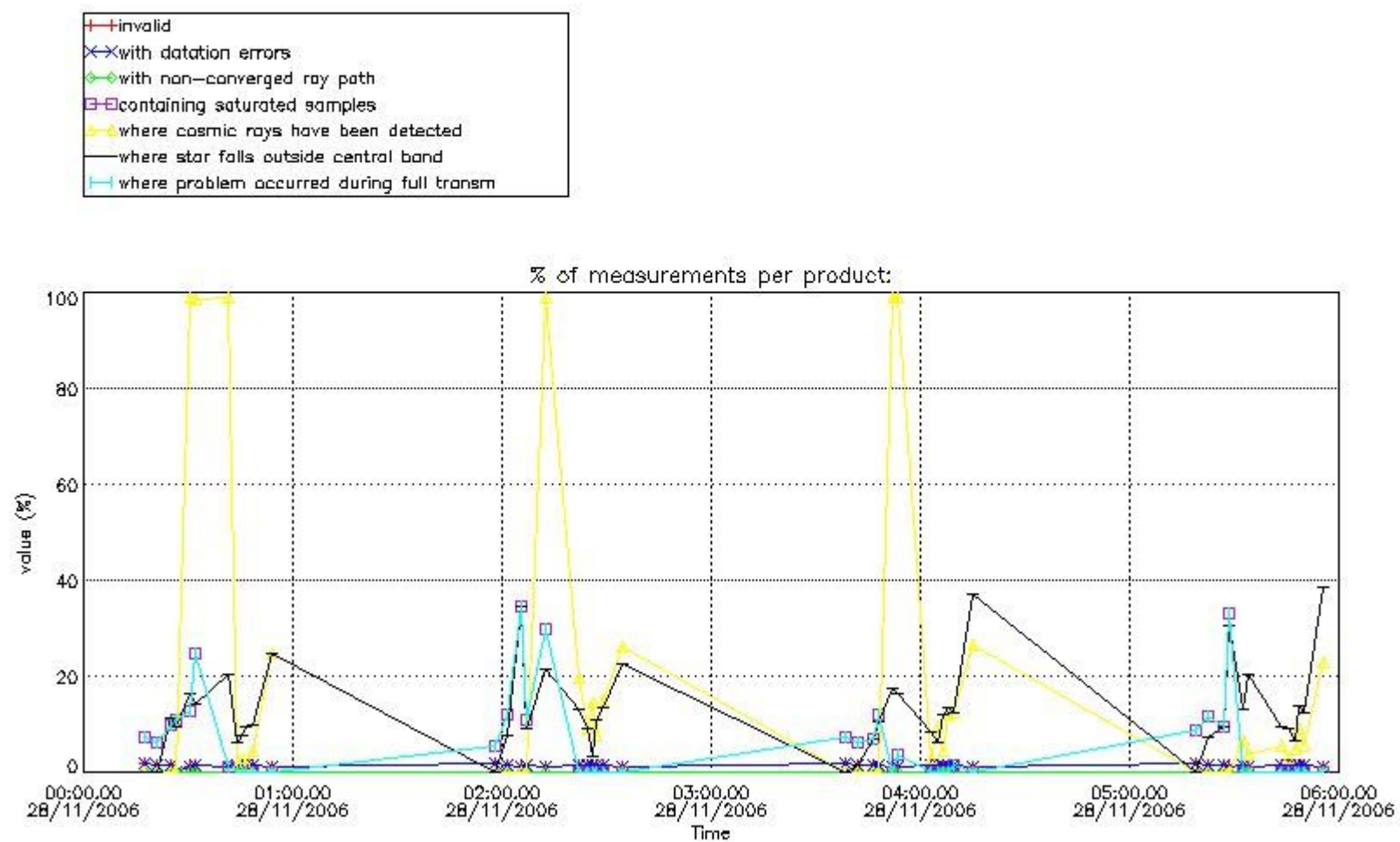


4. Level 1 quality information per product

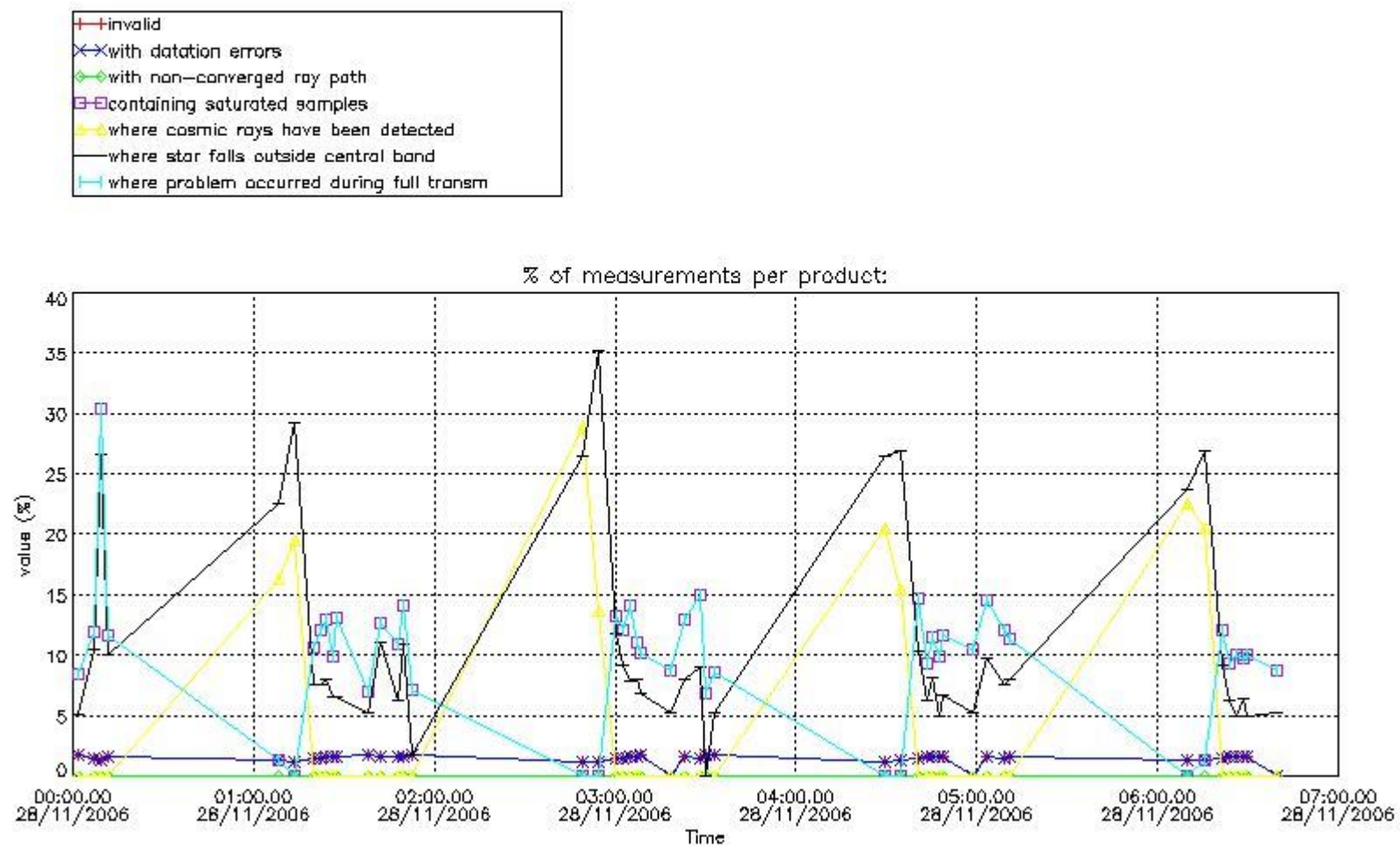
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



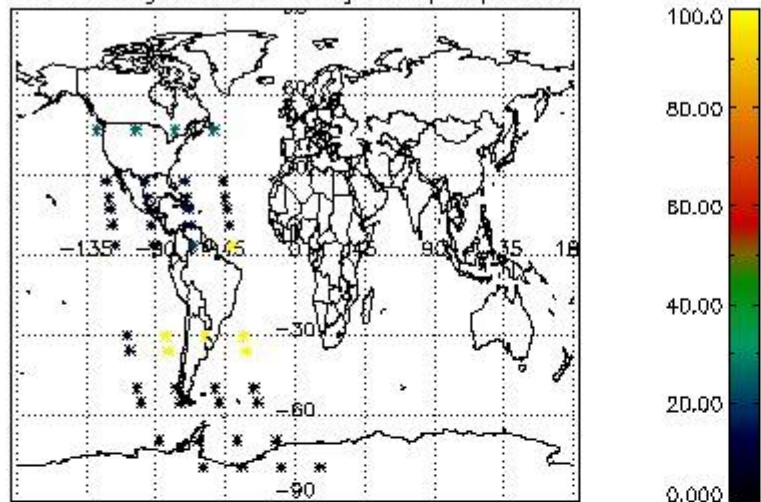
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



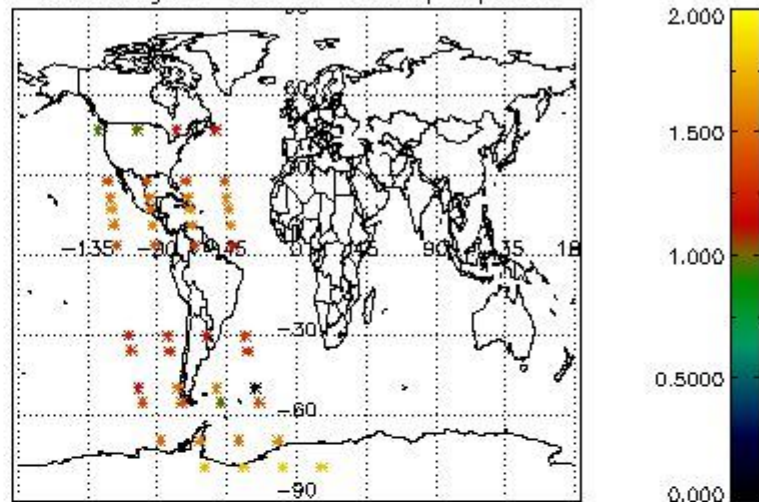
4.2 Plot quality information per product coming from level 1b processing (world map)

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

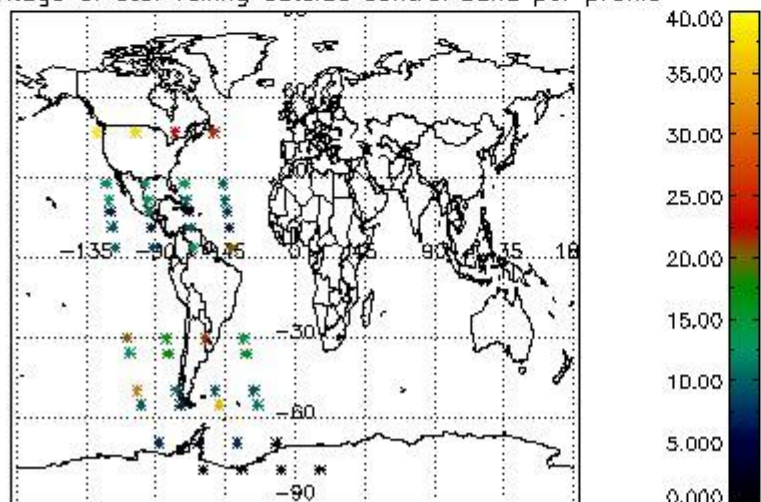
Percentage of cosmic ray hits per profile



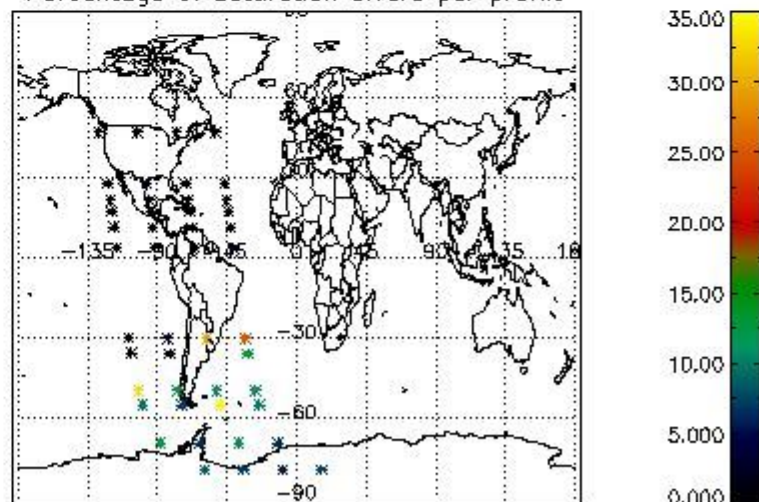
Percentage of datation errors per profile



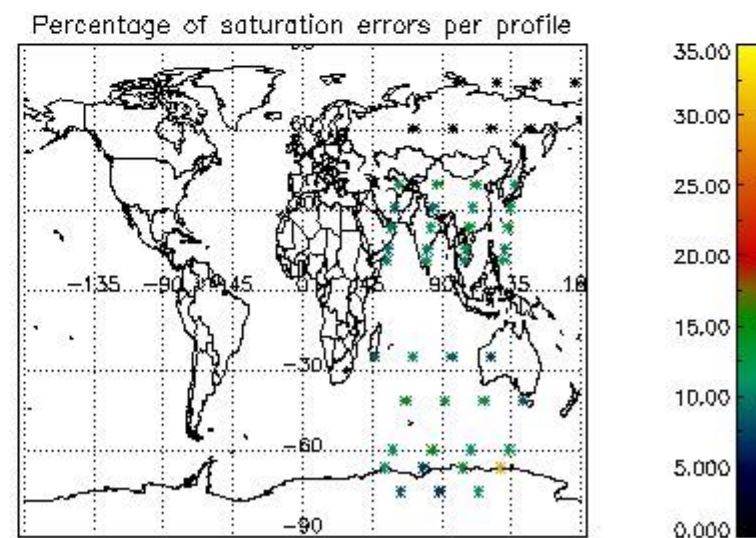
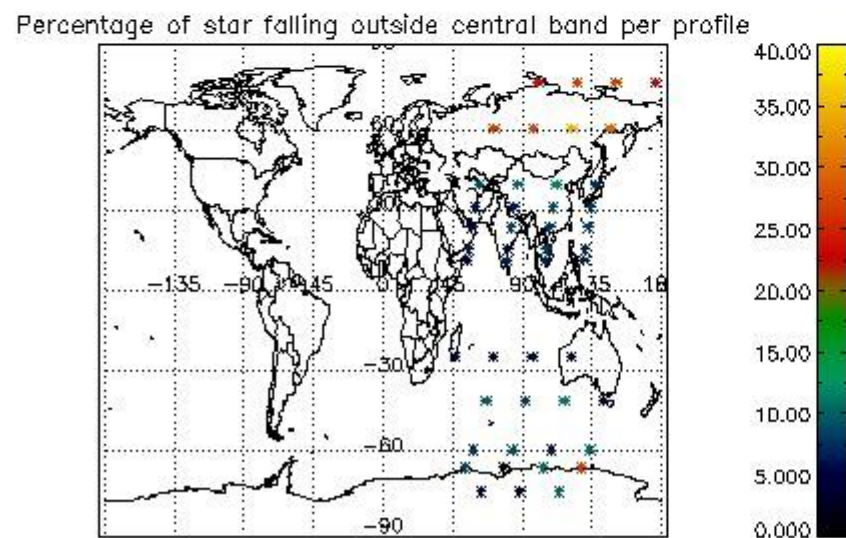
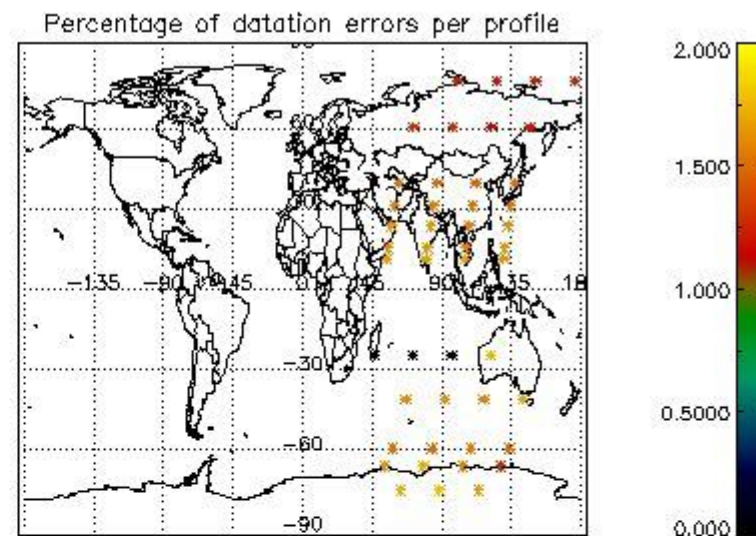
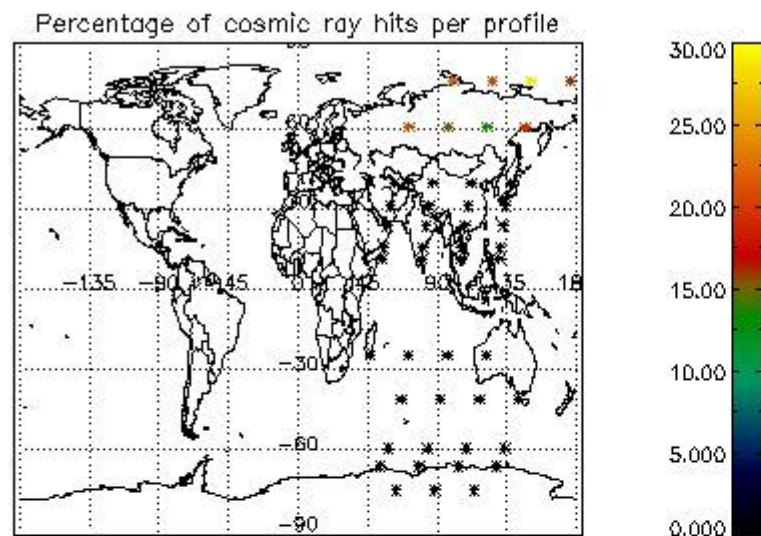
Percentage of star falling outside central band per profile



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

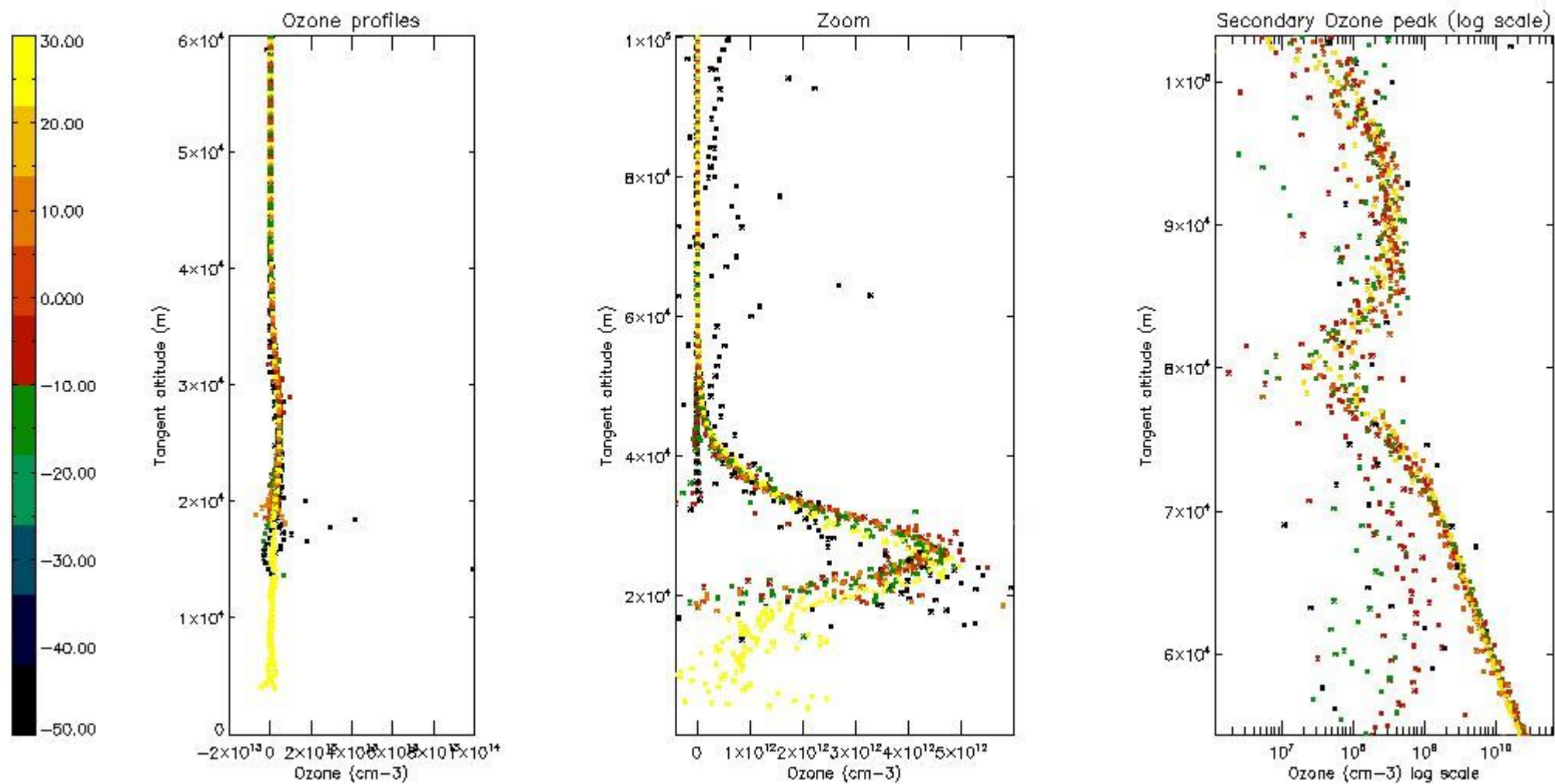
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	32
STD < 20	16

STD < 10	12
STD < 5	6

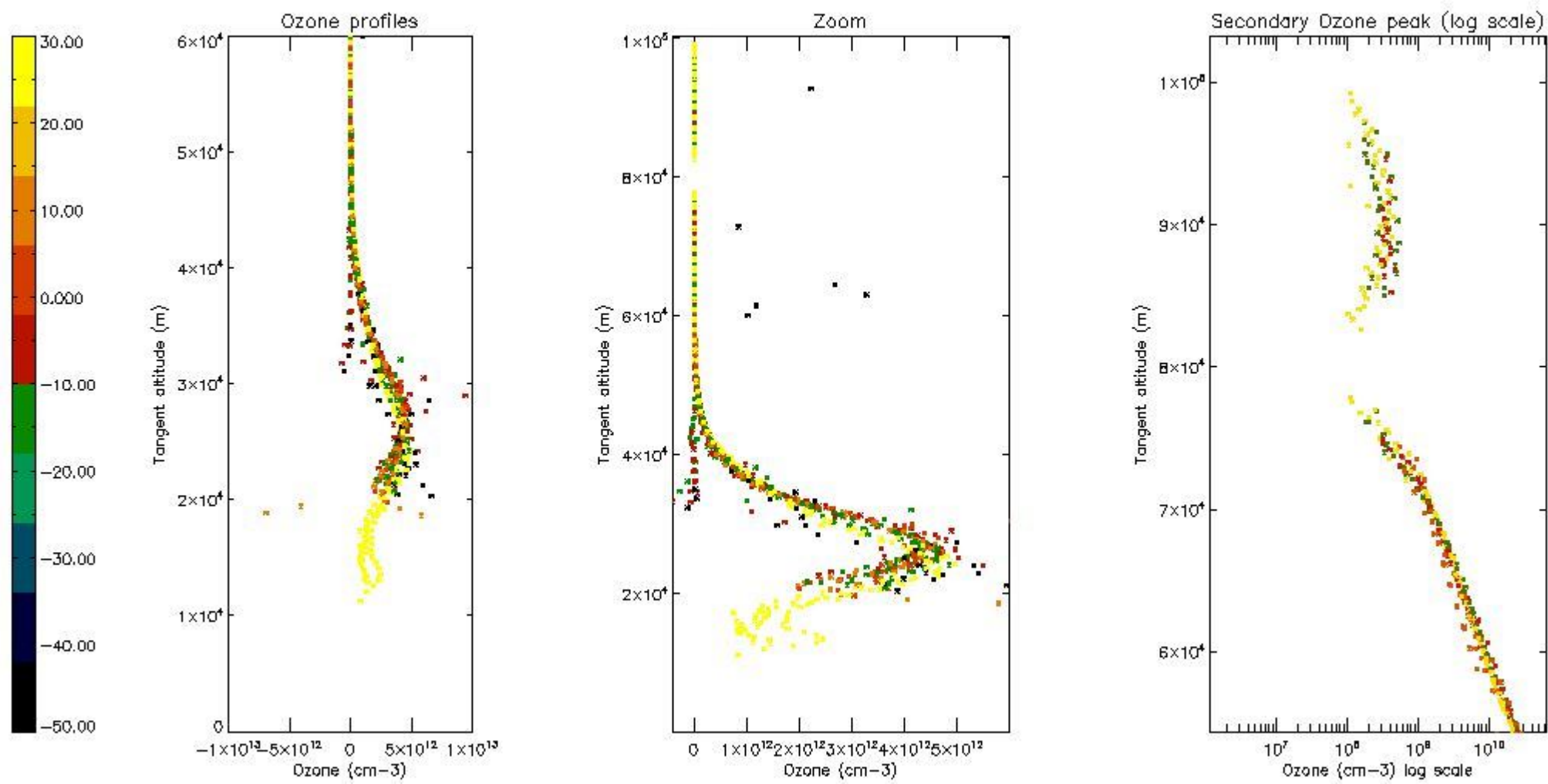
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



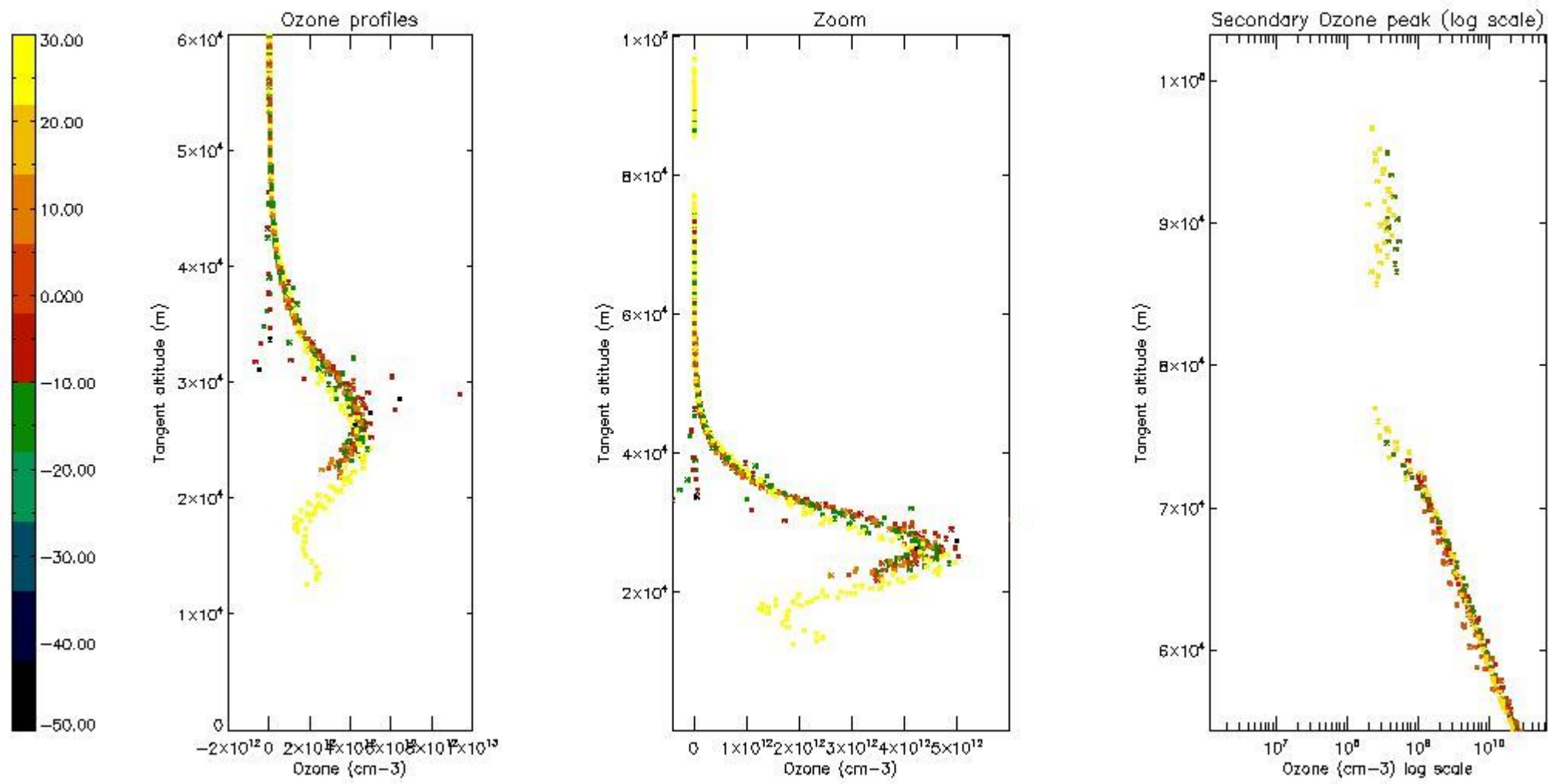
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



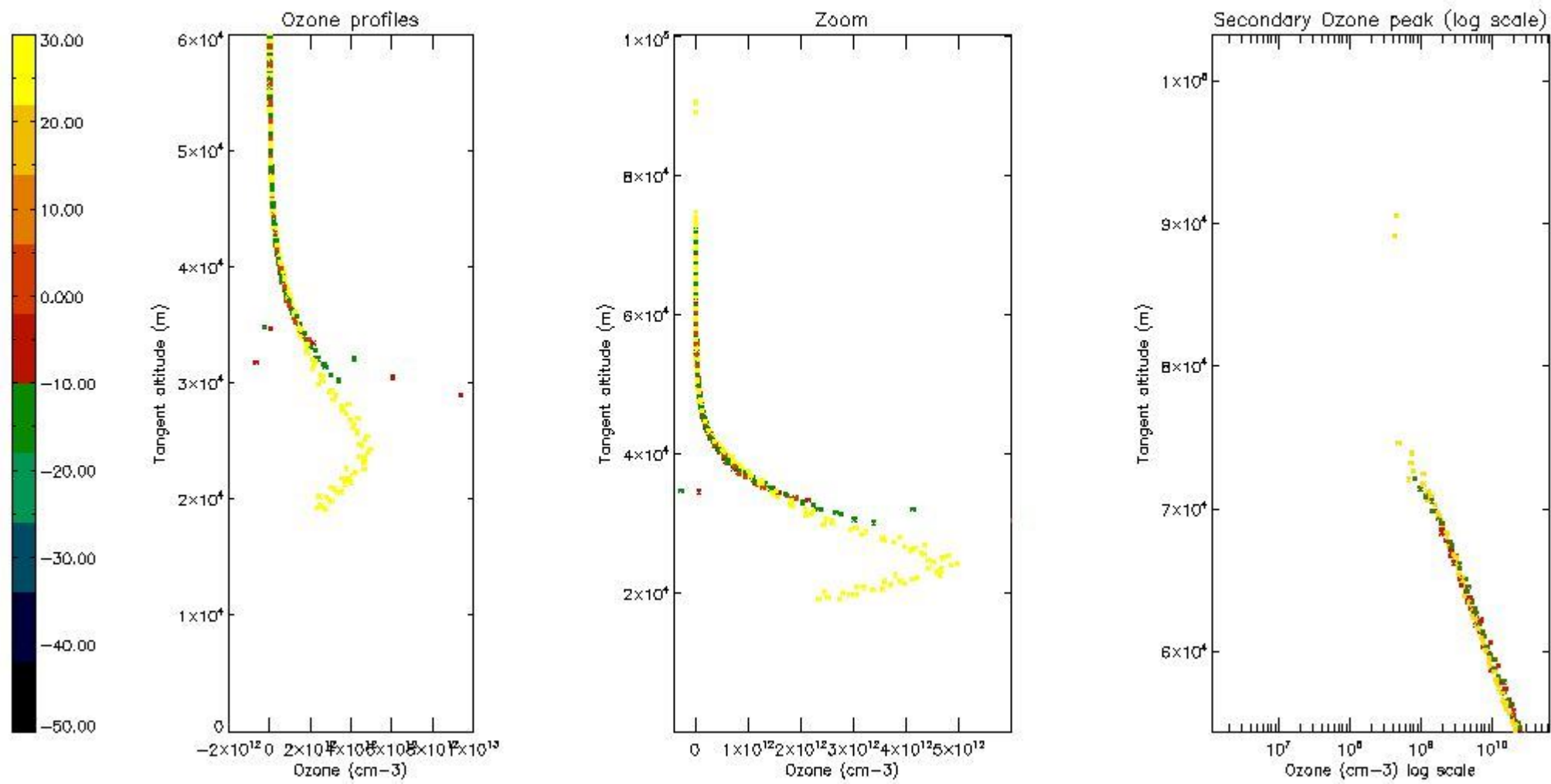
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



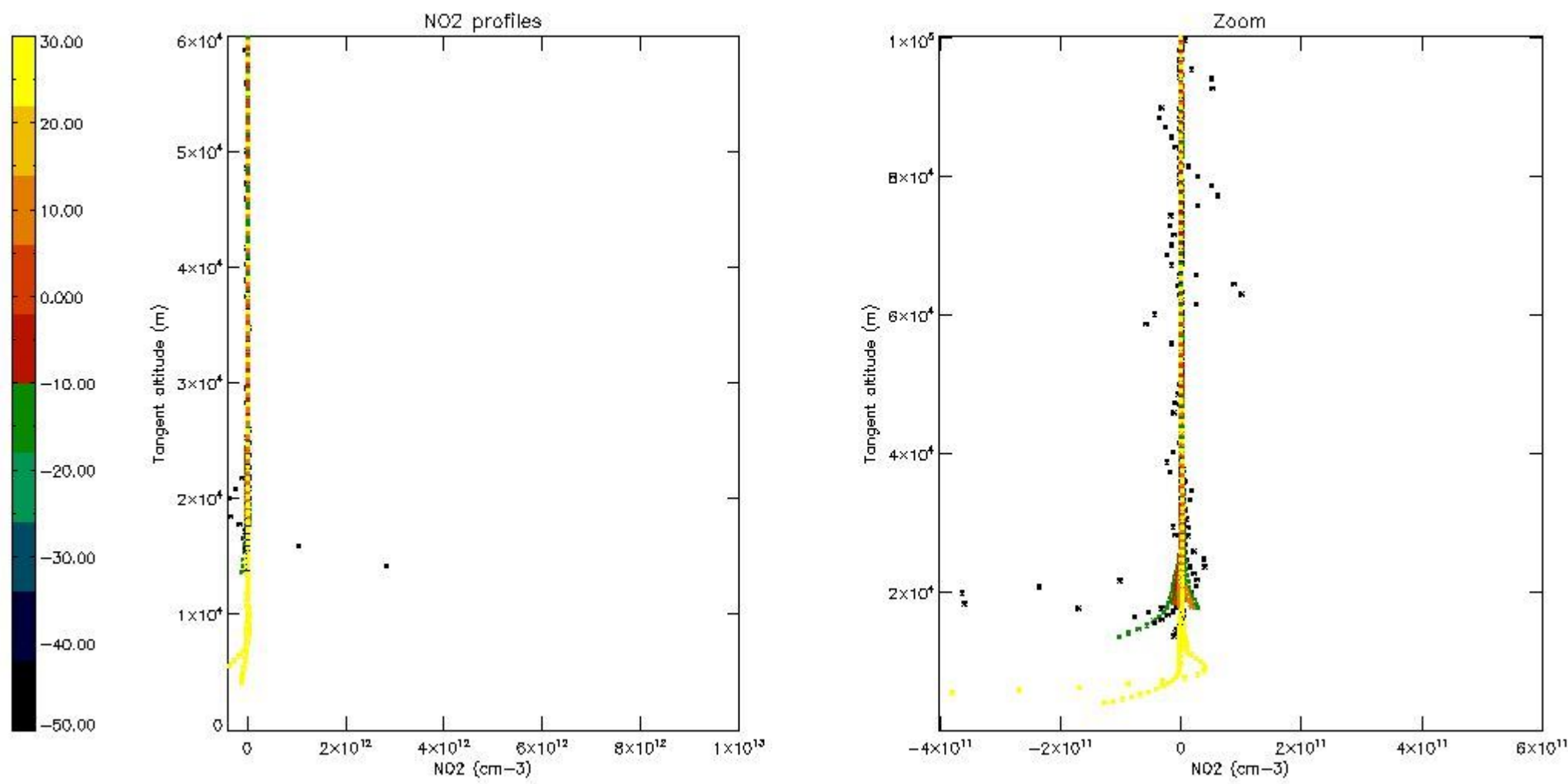
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



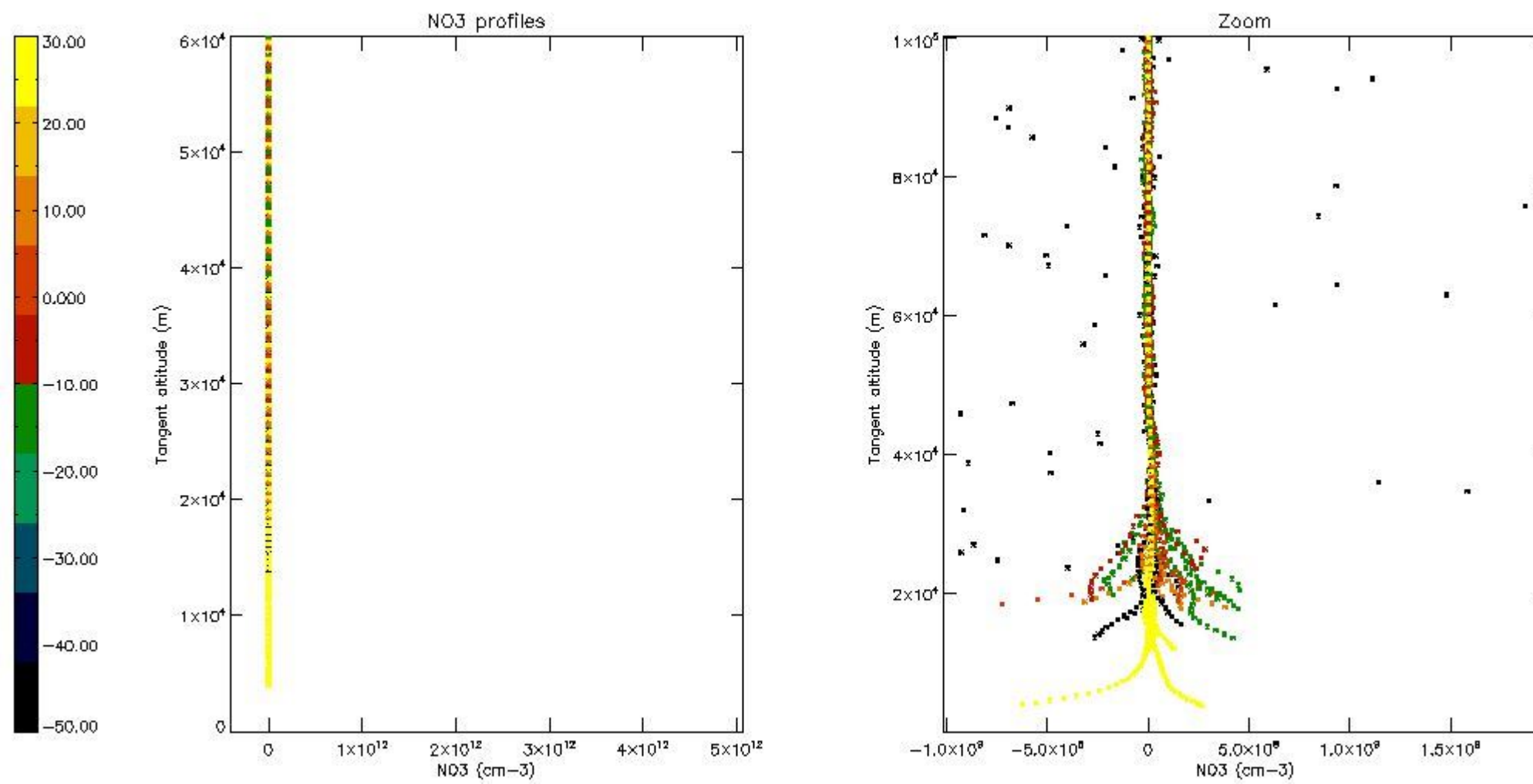
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

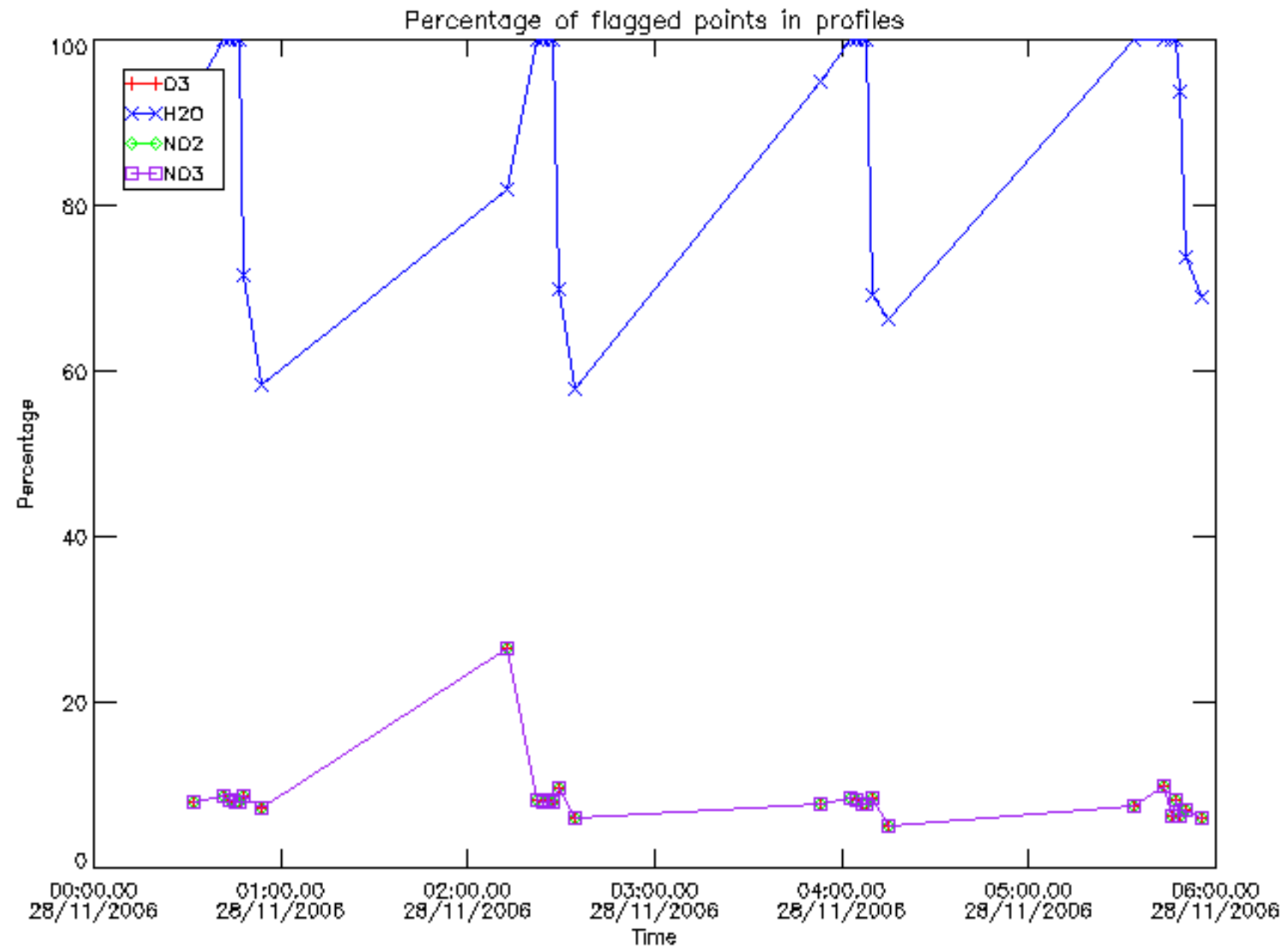
The colorbar represents the latitude.



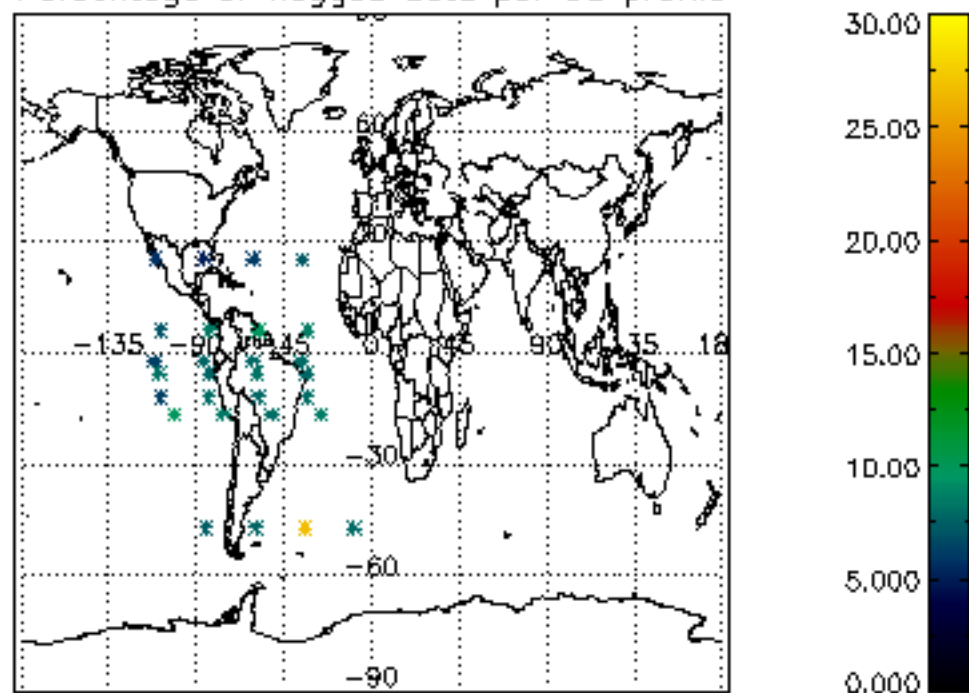
6. Auxiliary Data Files used for the production reported in section 2

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.

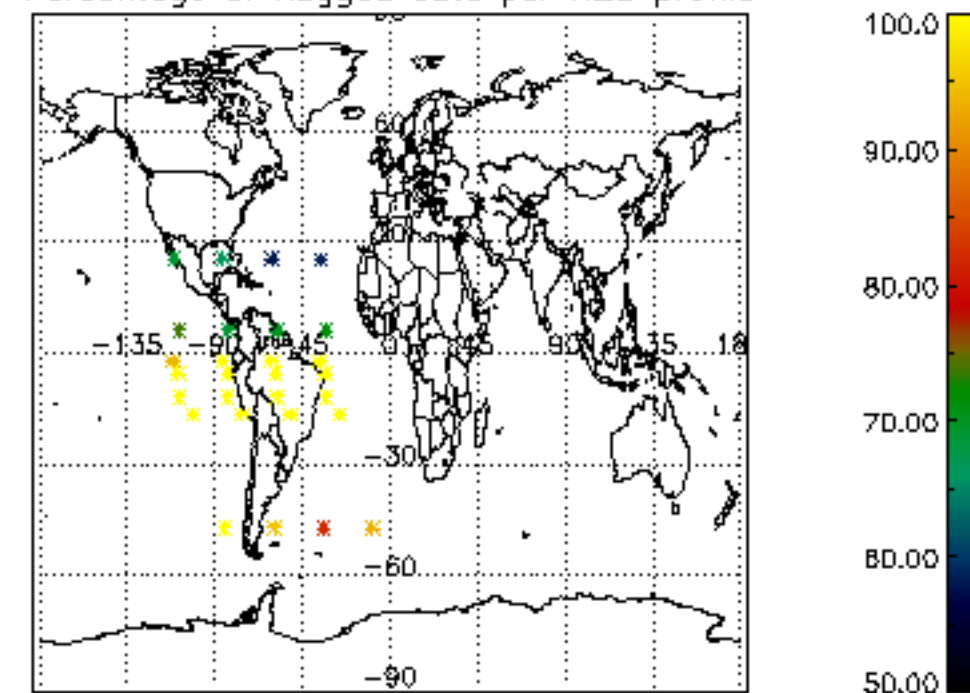
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	28-NOV-2006 00:01:46
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	28-NOV-2006 00:01:46
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	28-NOV-2006 00:01:46



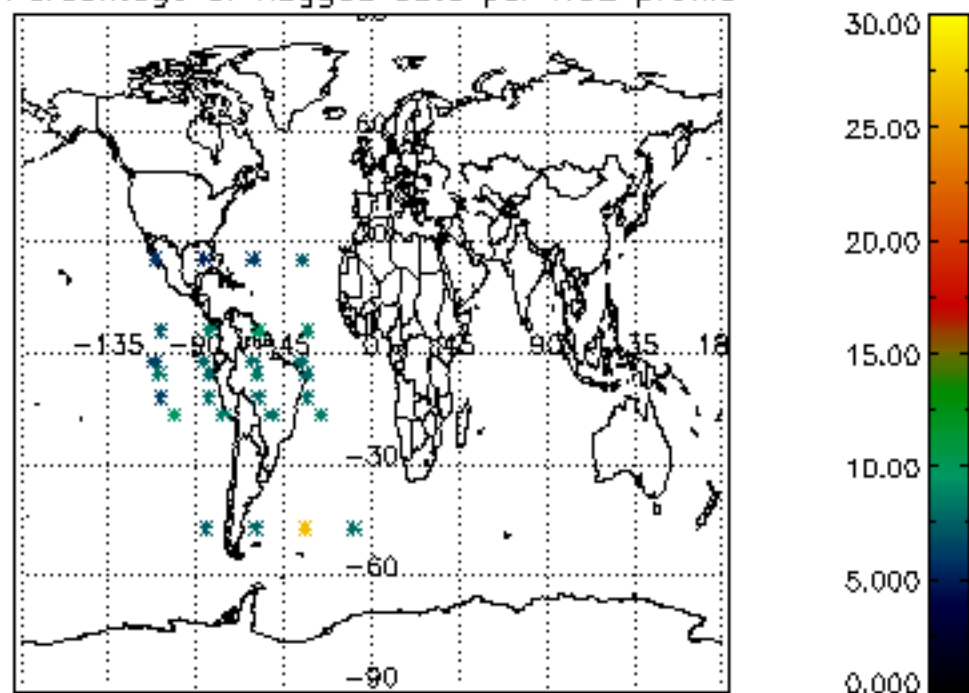
Percentage of flagged data per D3 profile



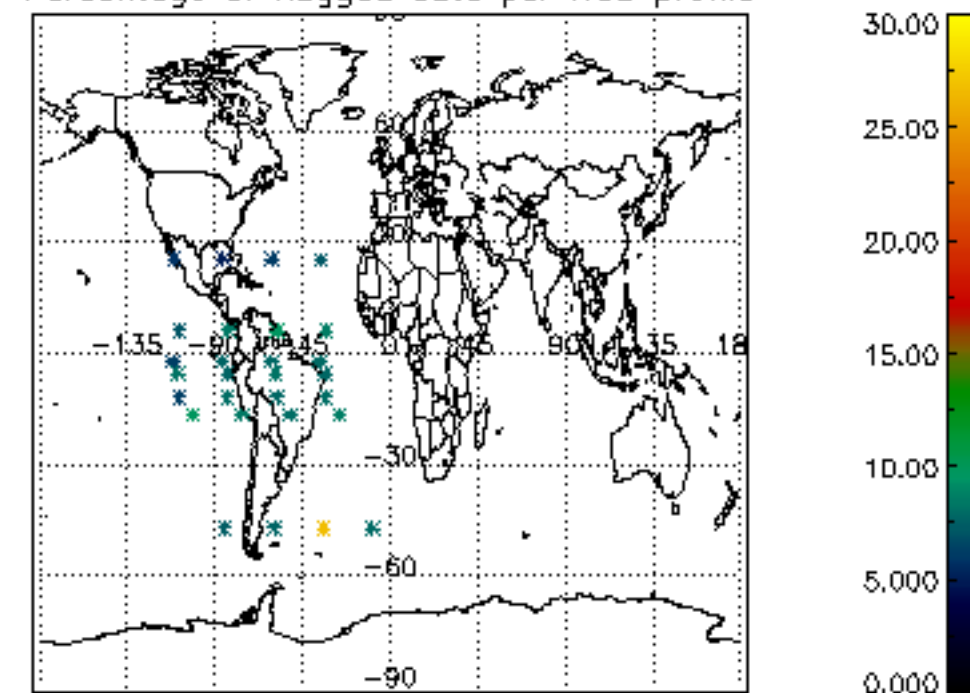
Percentage of flagged data per H2O profile

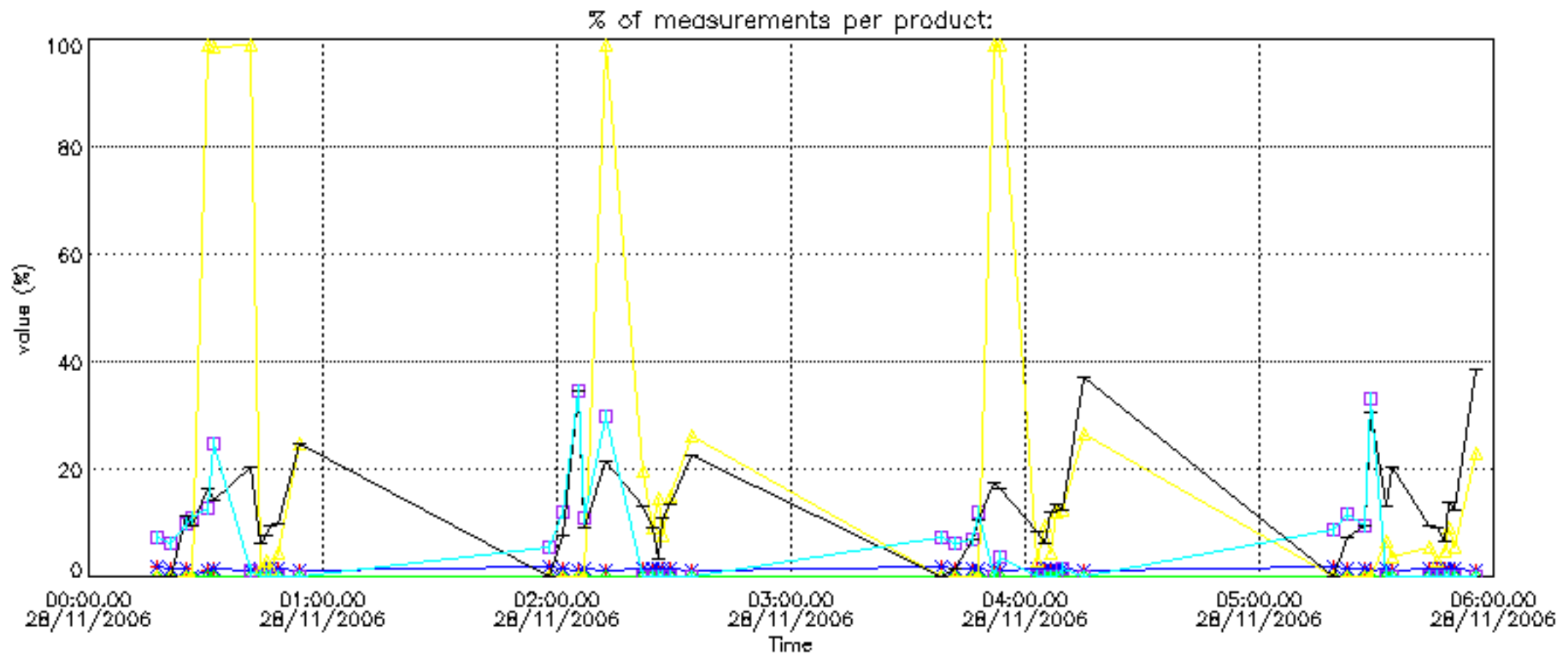


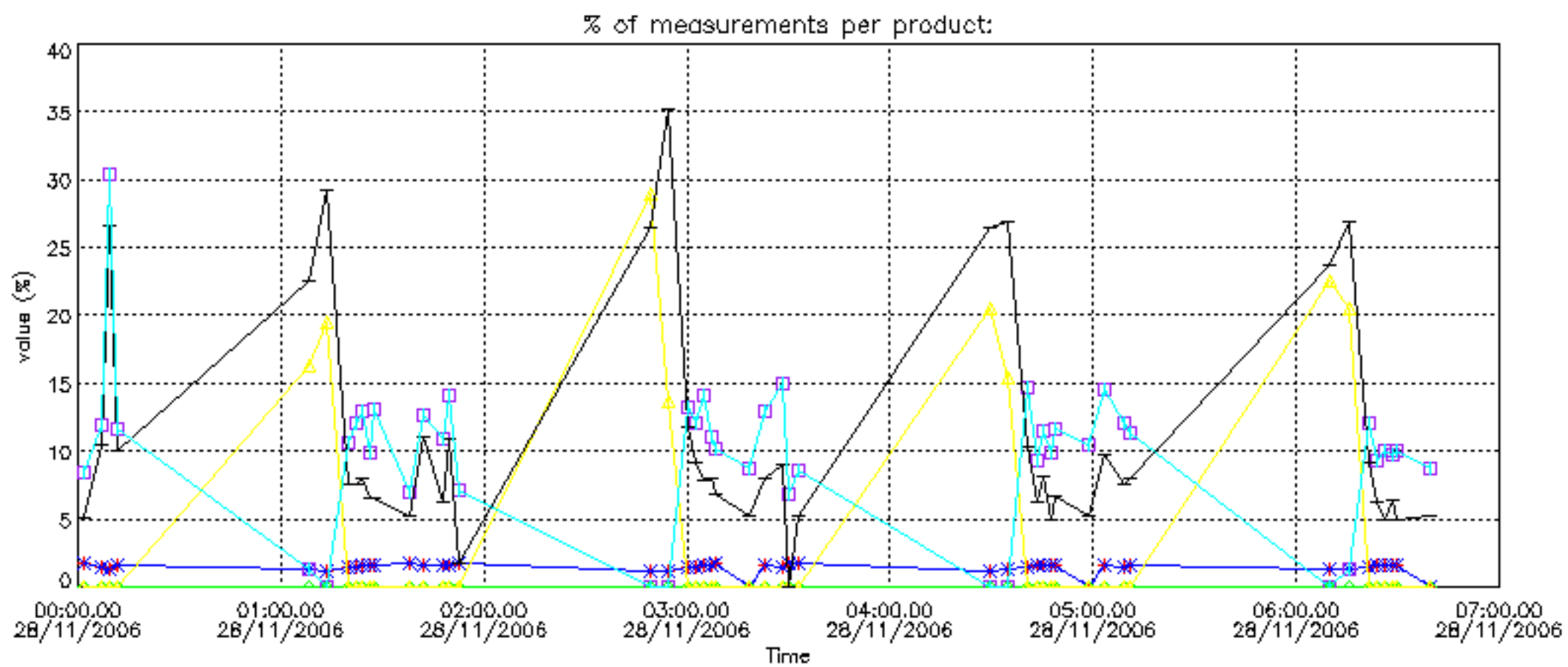
Percentage of flagged data per NO2 profile



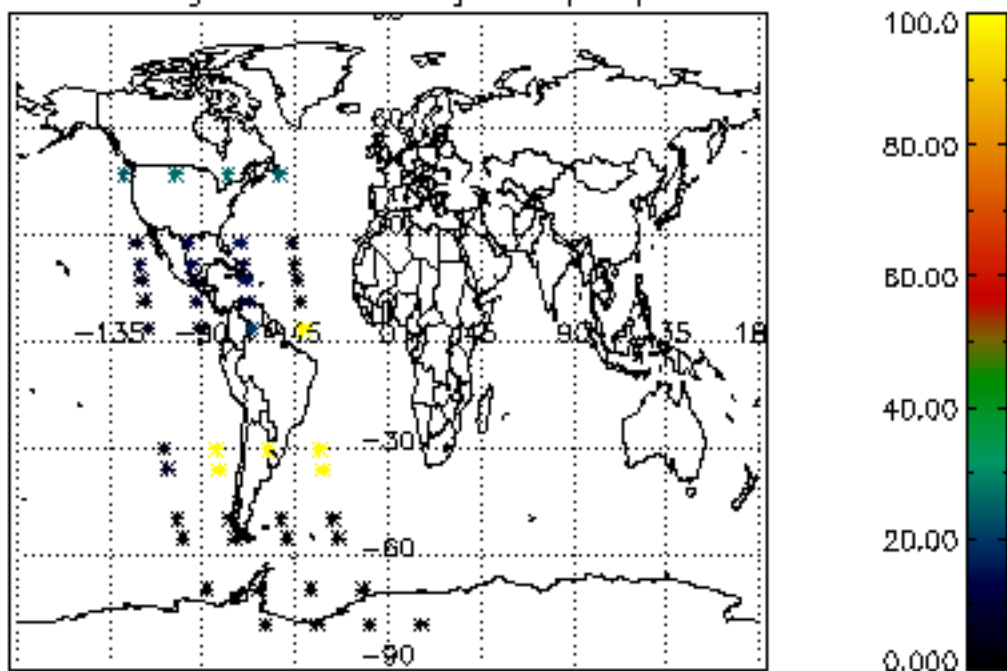
Percentage of flagged data per NO3 profile



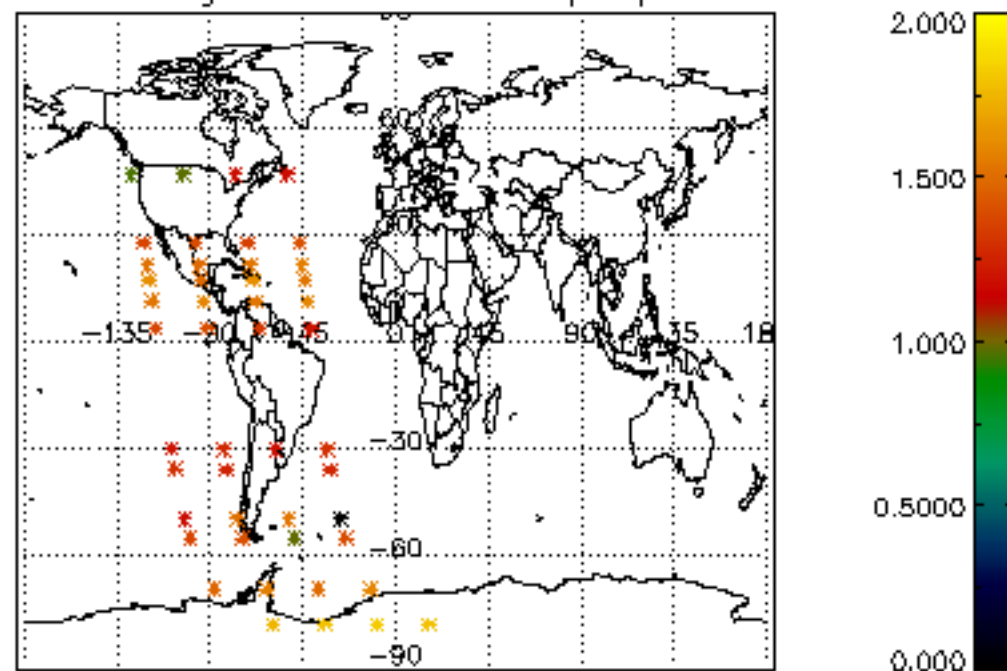




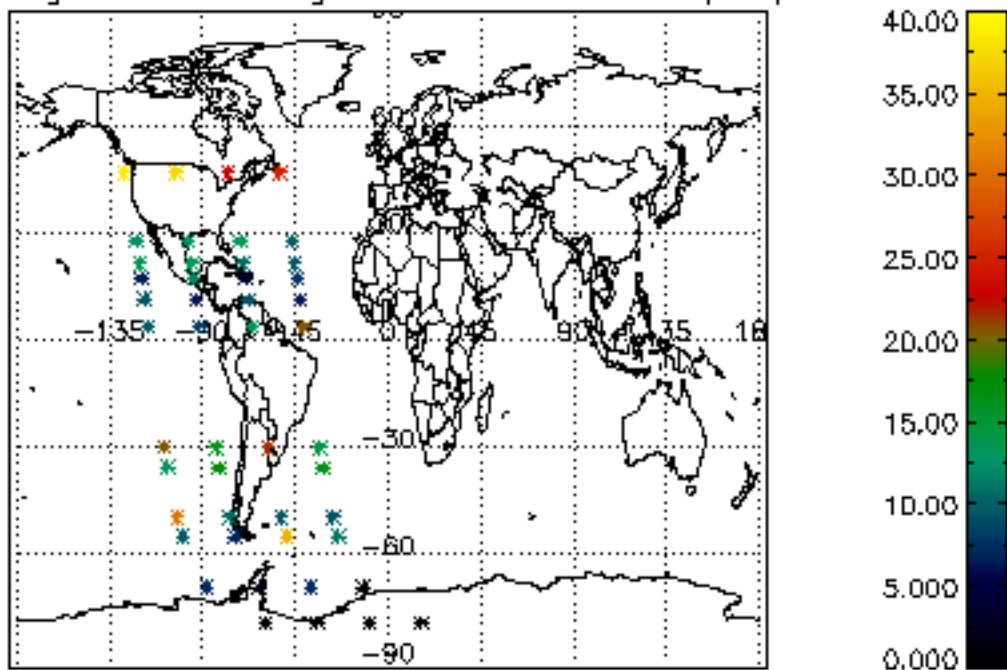
Percentage of cosmic ray hits per profile



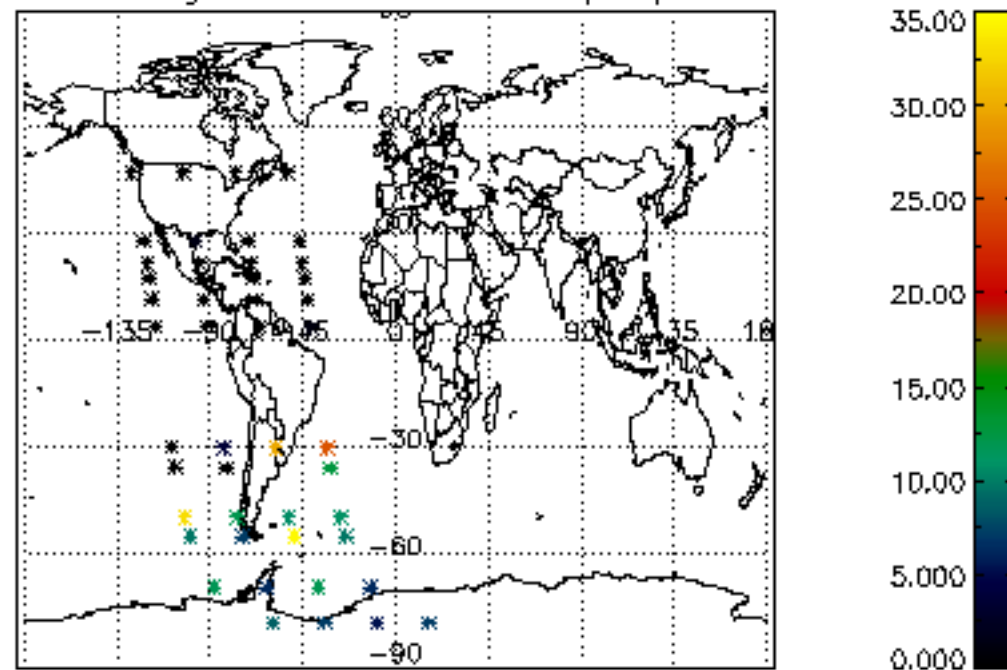
Percentage of datation errors per profile



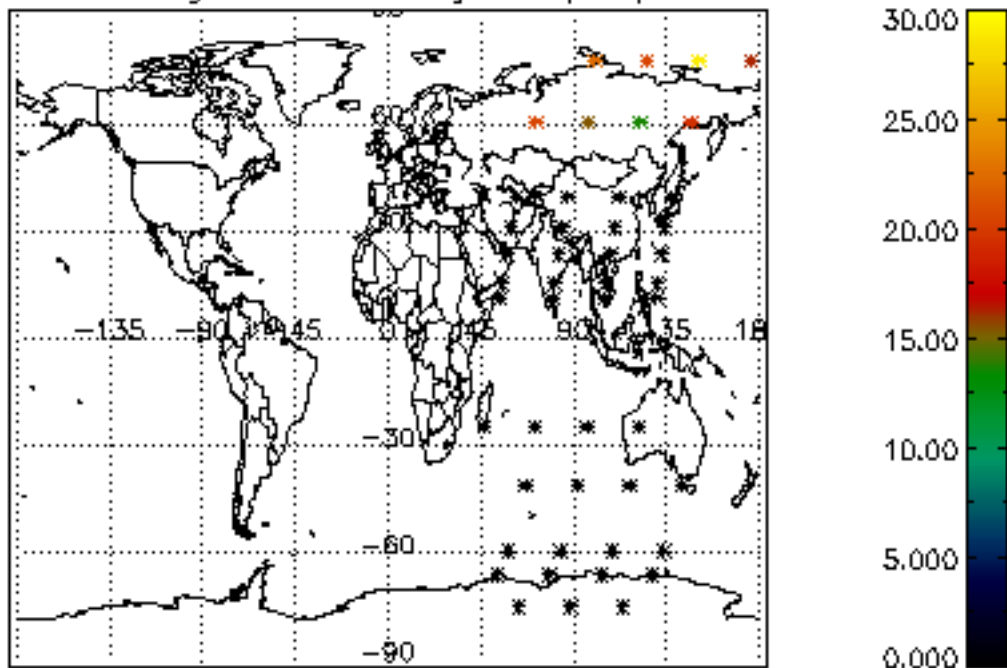
Percentage of star falling outside central band per profile



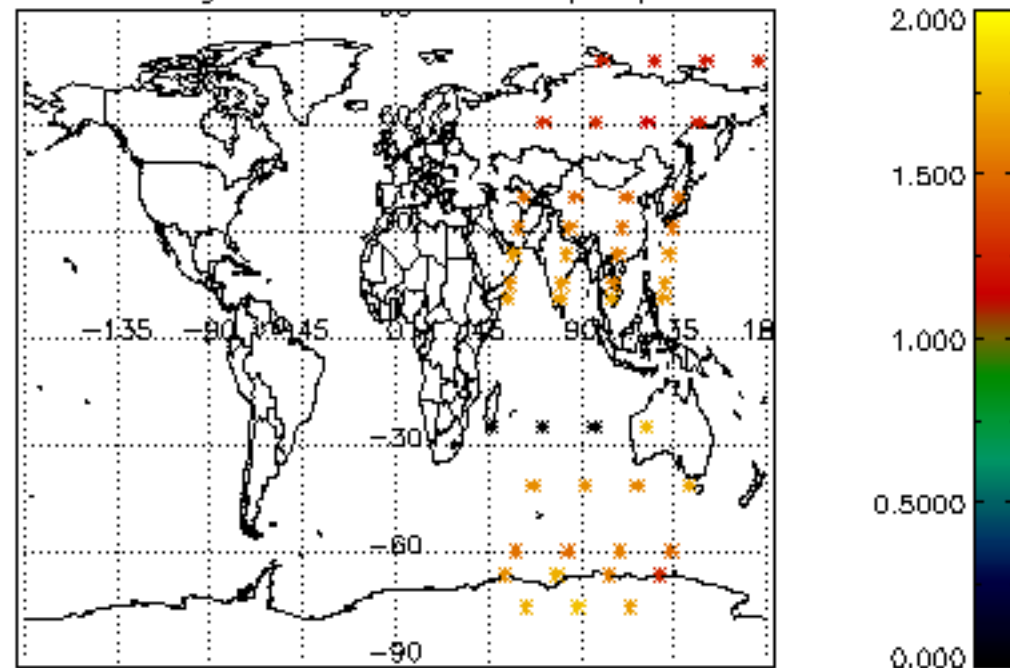
Percentage of saturation errors per profile



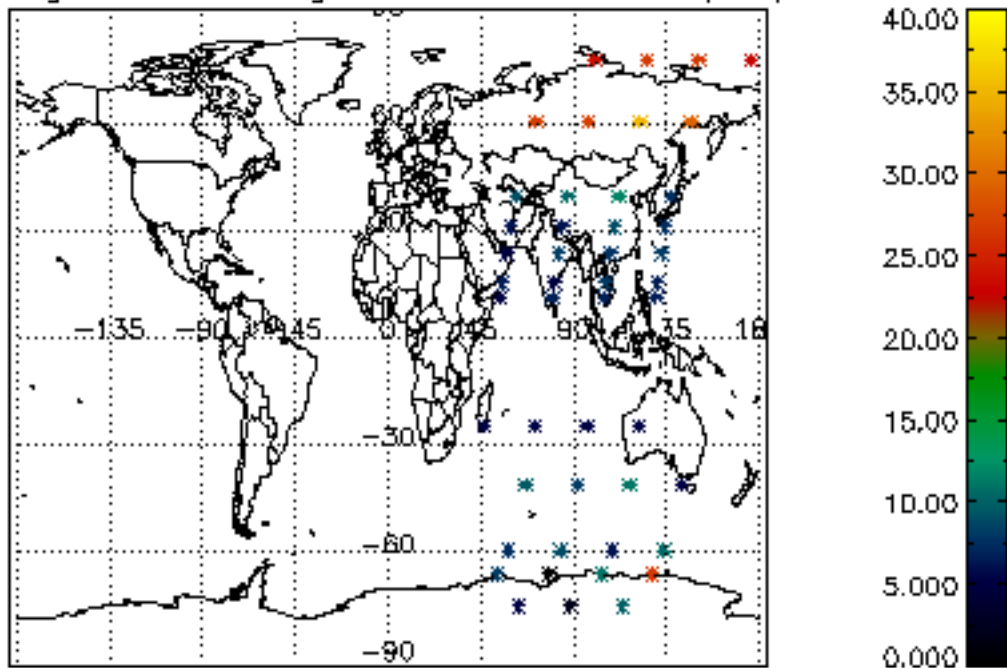
Percentage of cosmic ray hits per profile



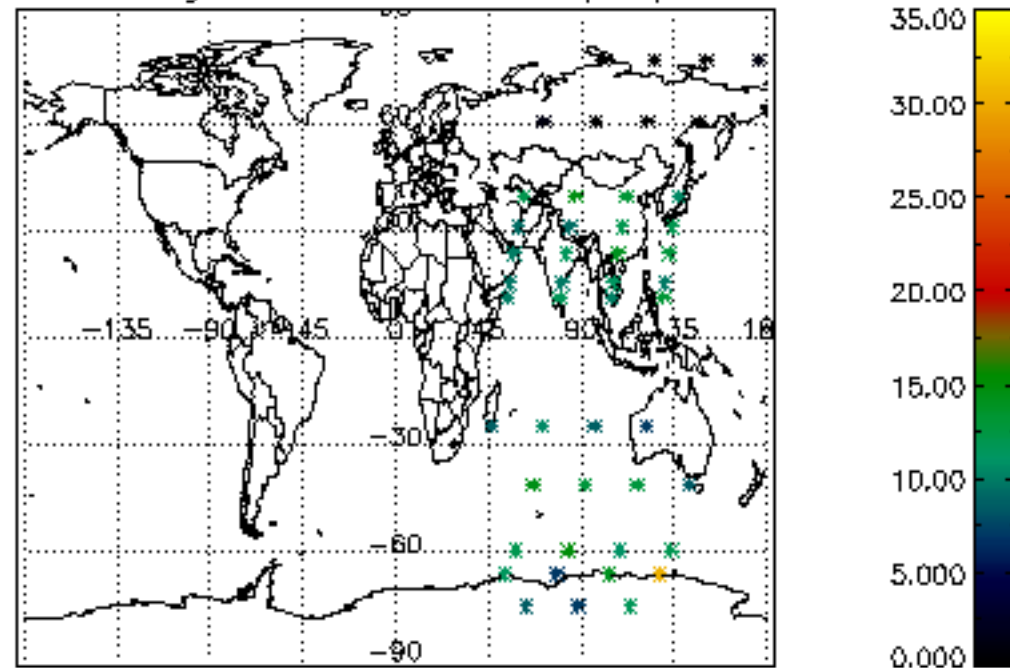
Percentage of datation errors per profile

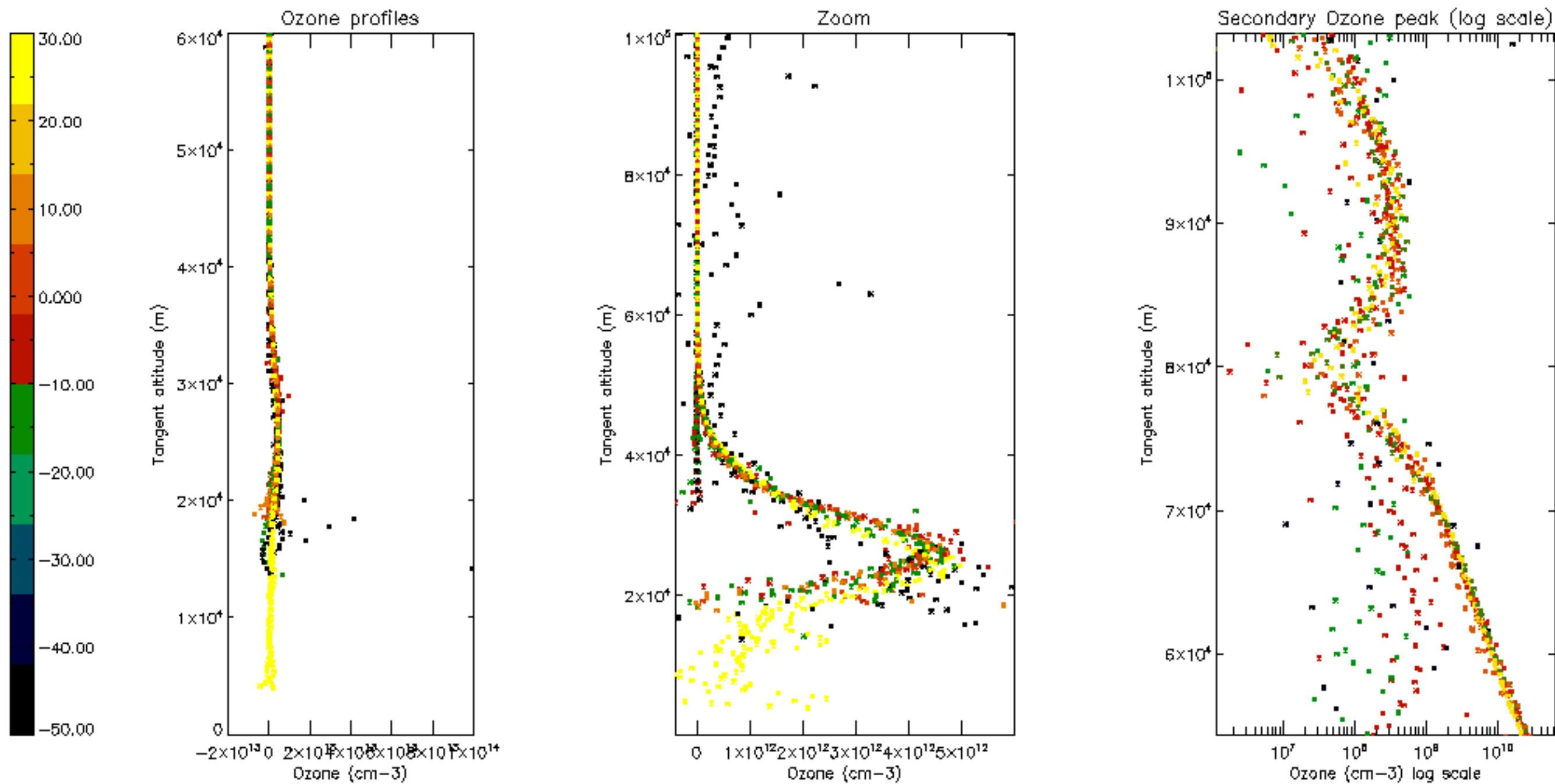


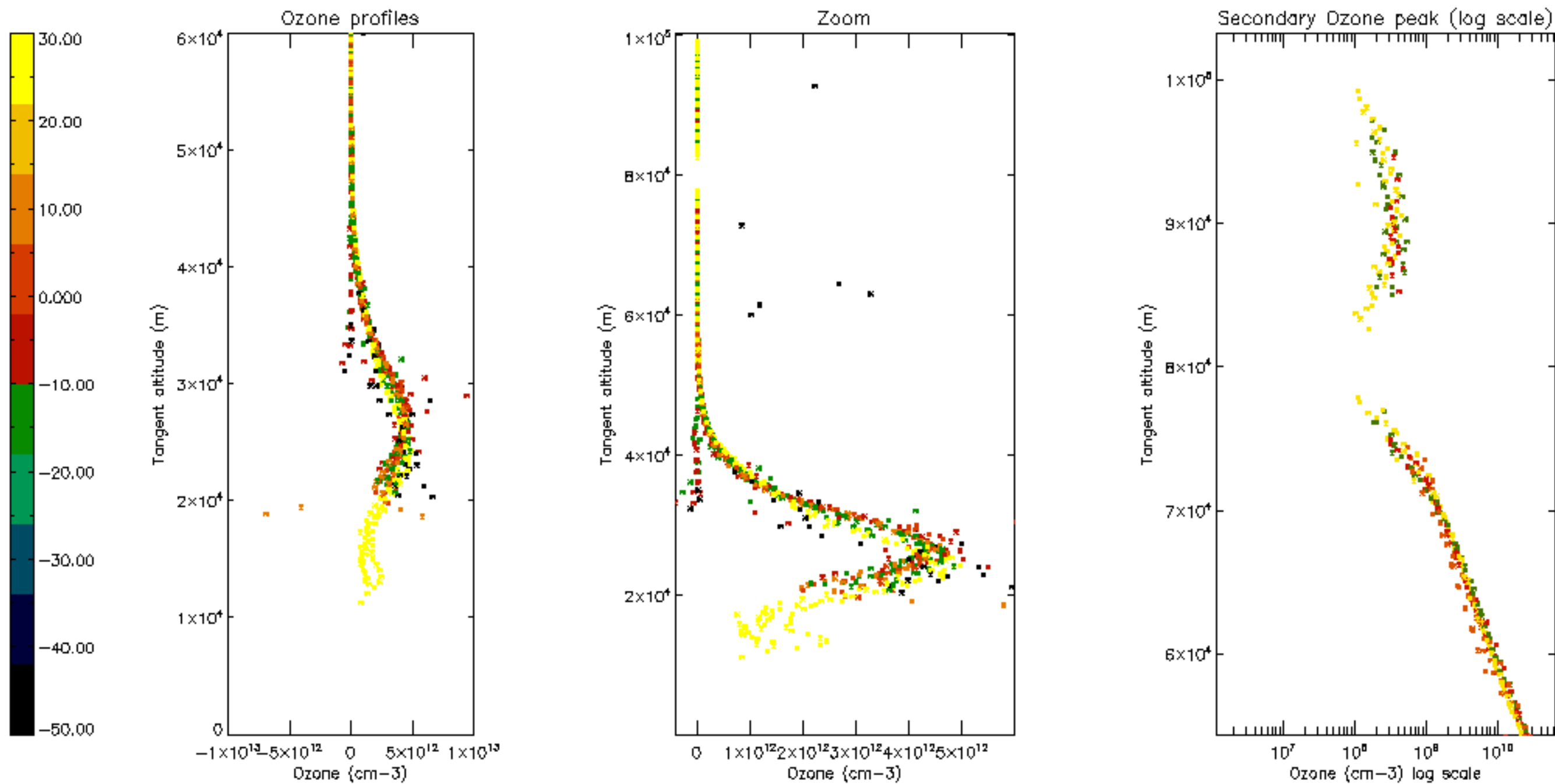
Percentage of star falling outside central band per profile

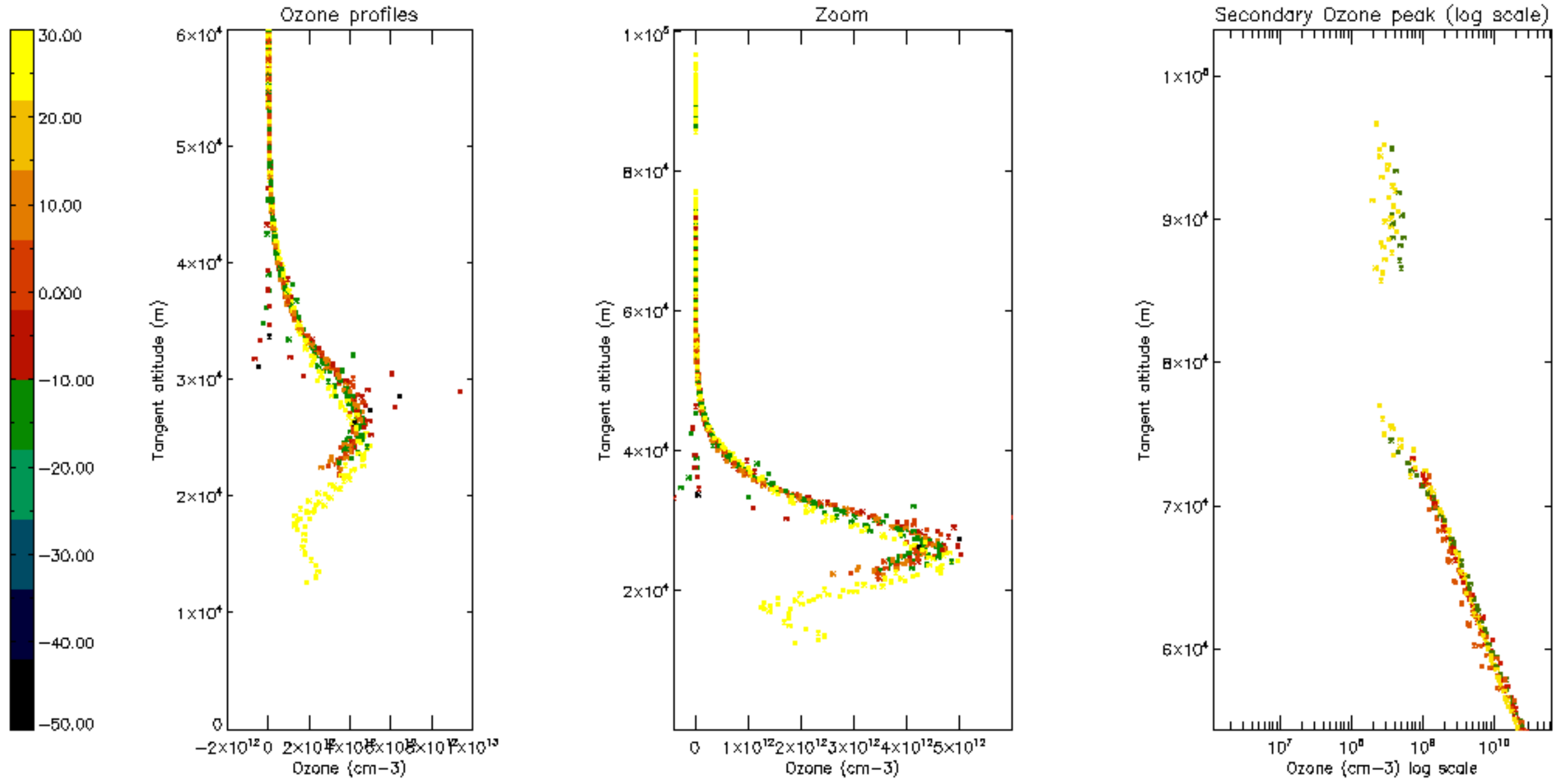


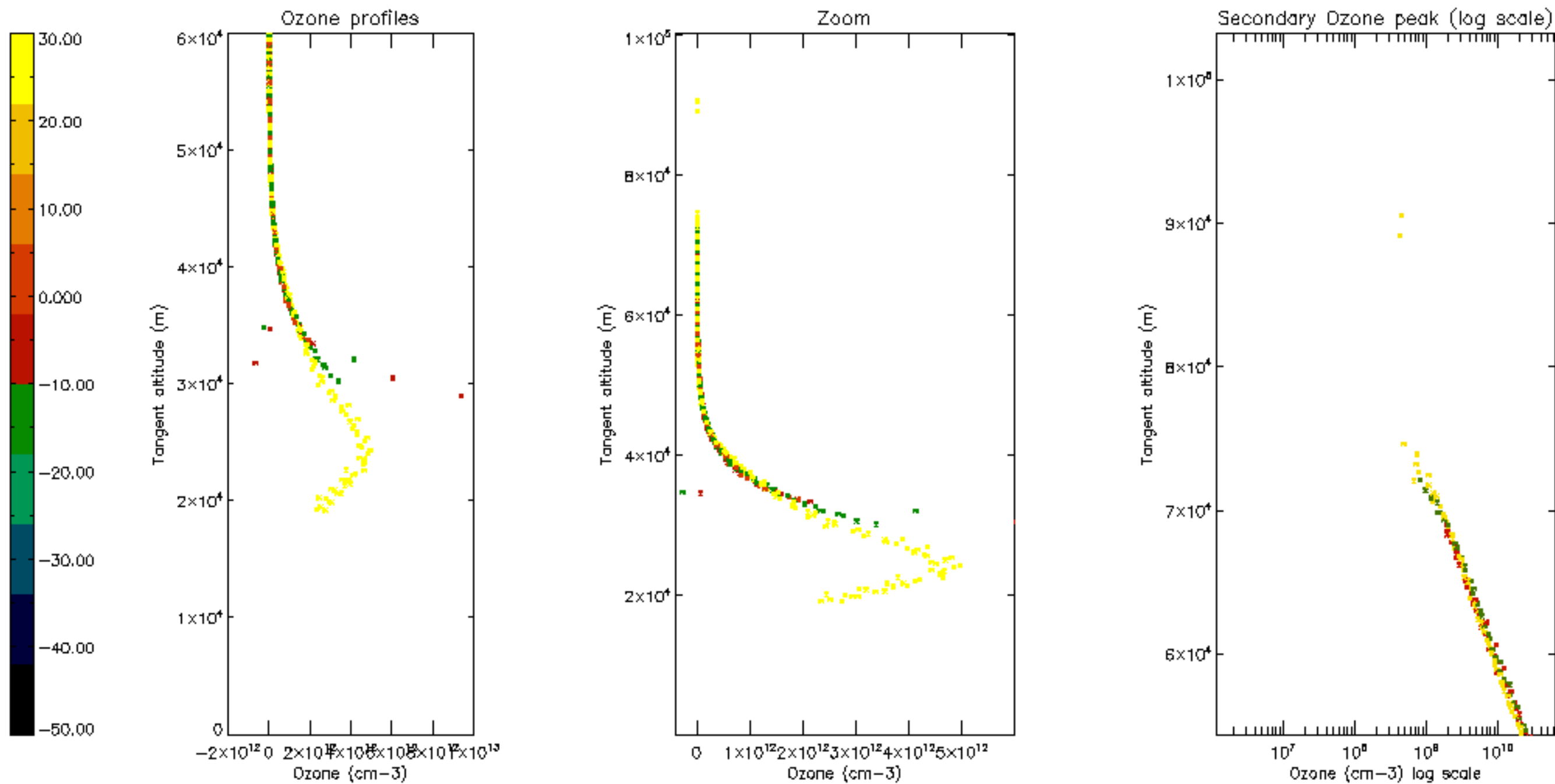
Percentage of saturation errors per profile

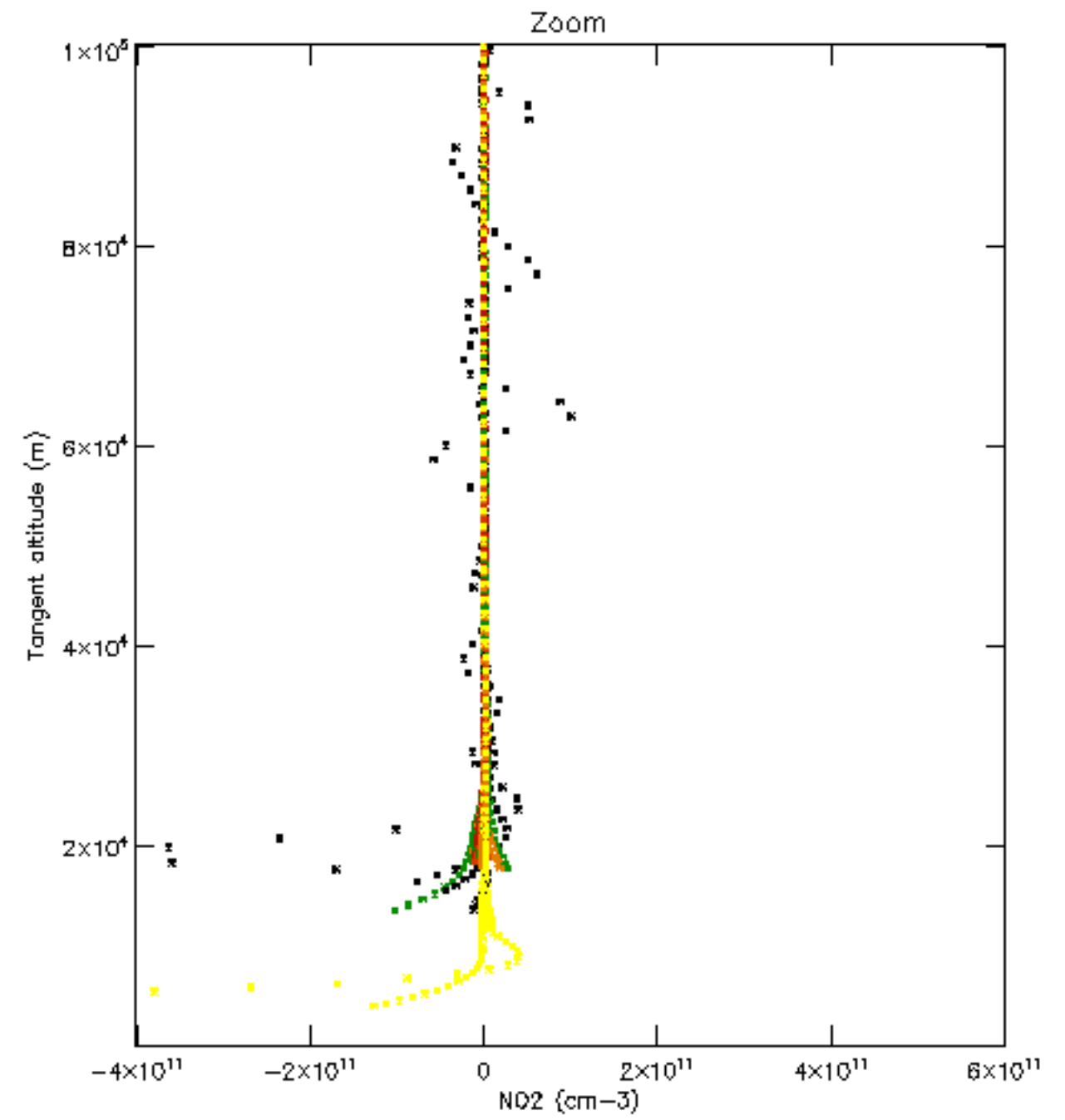
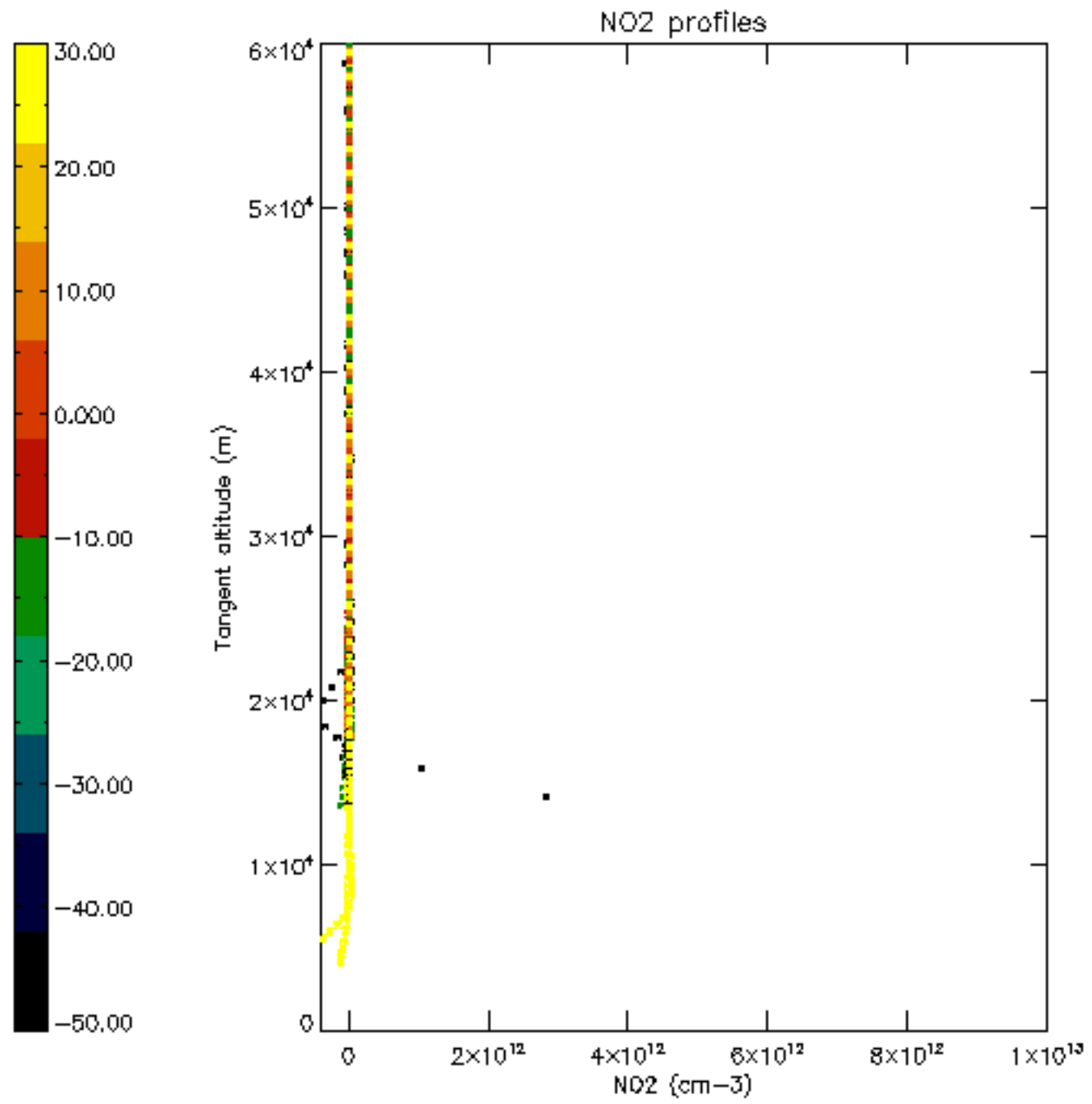


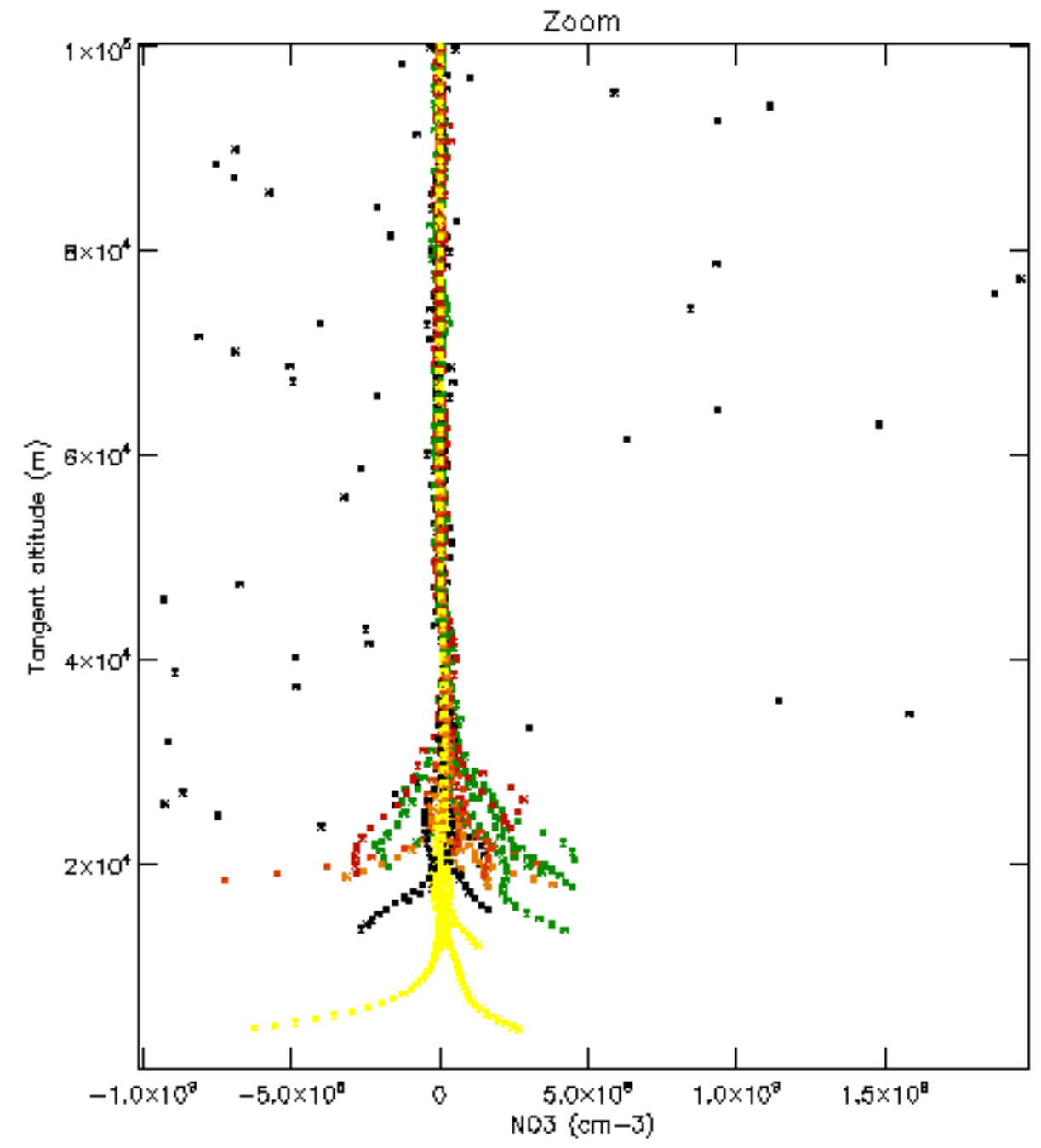
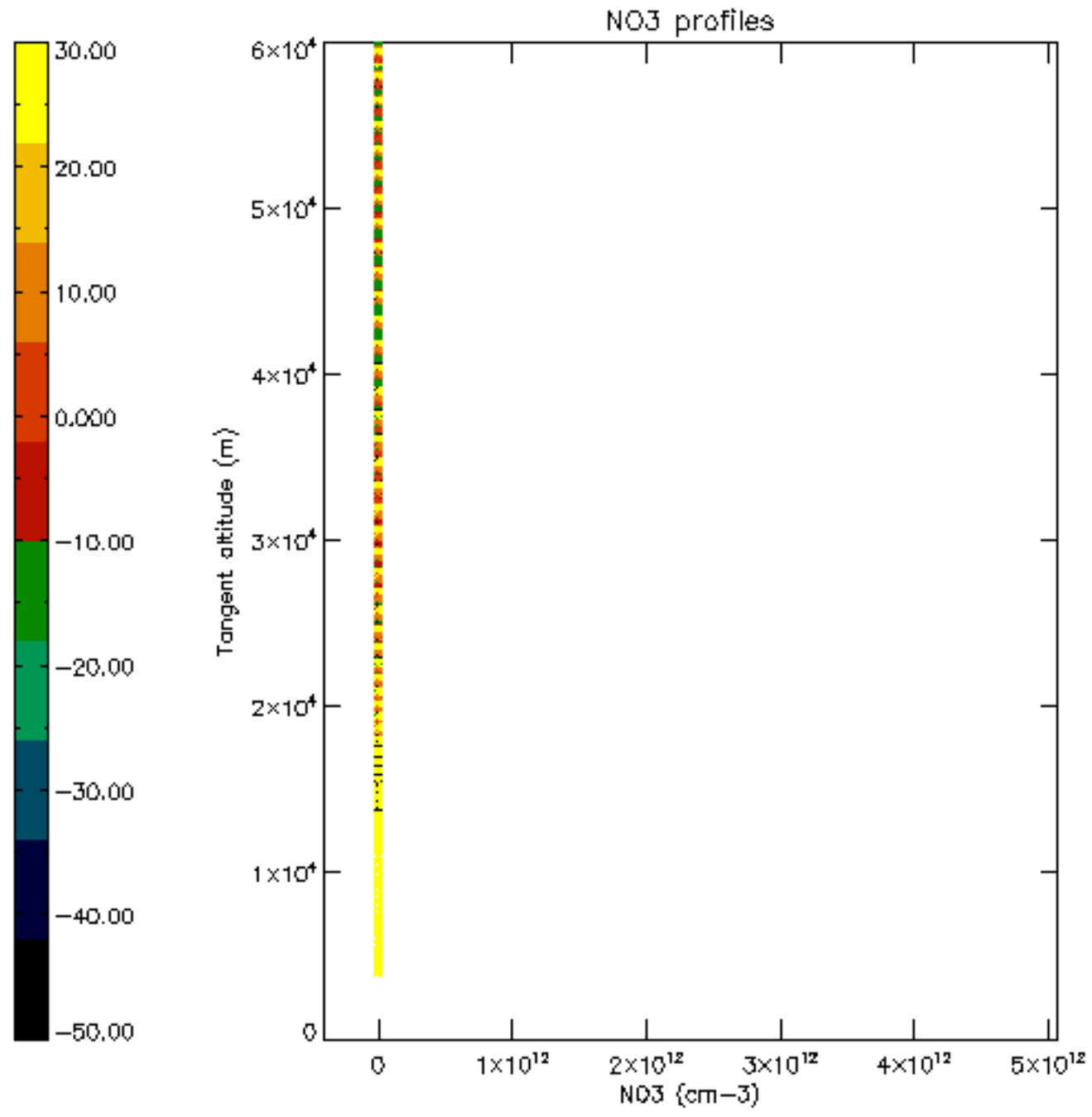


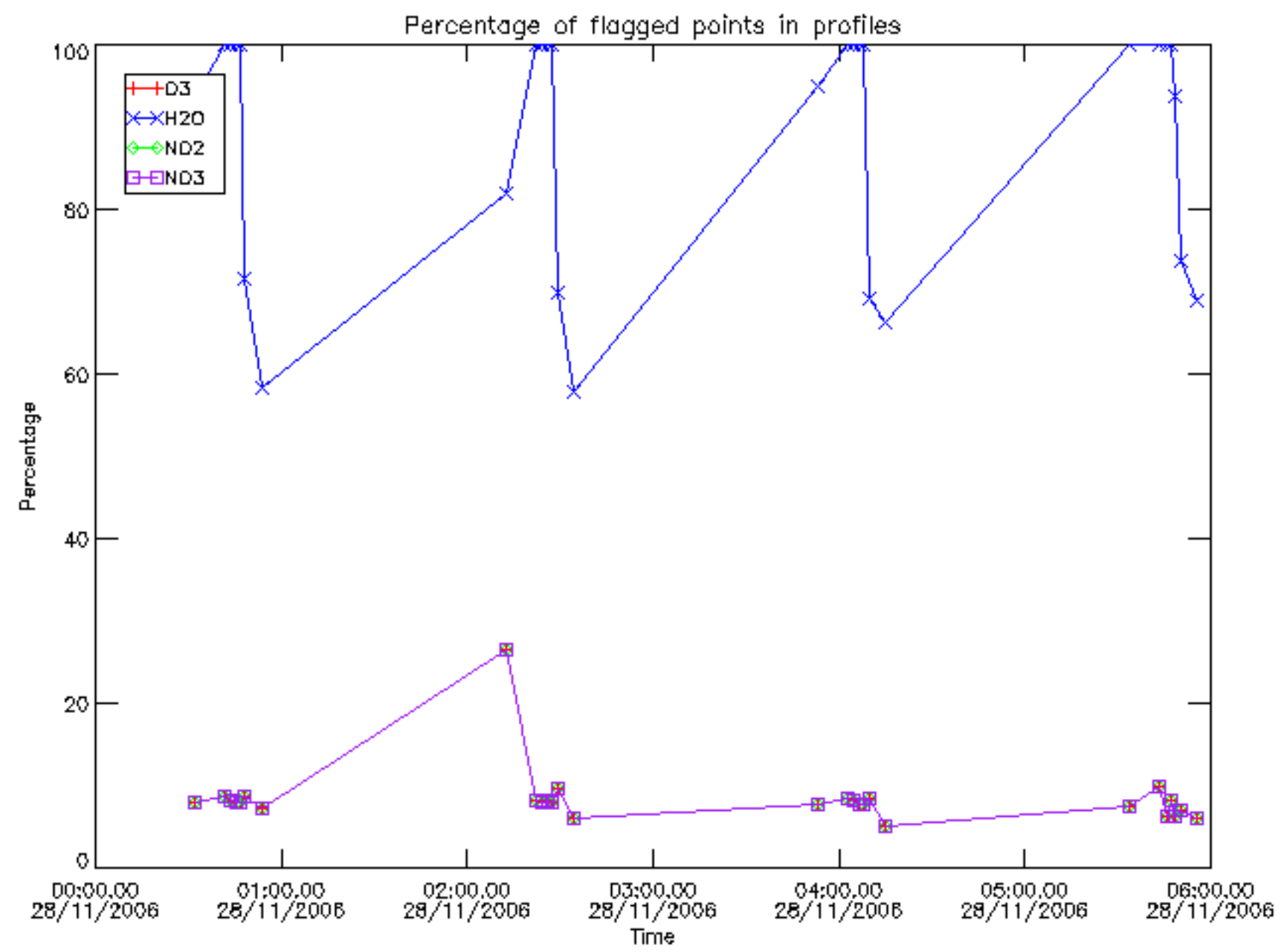




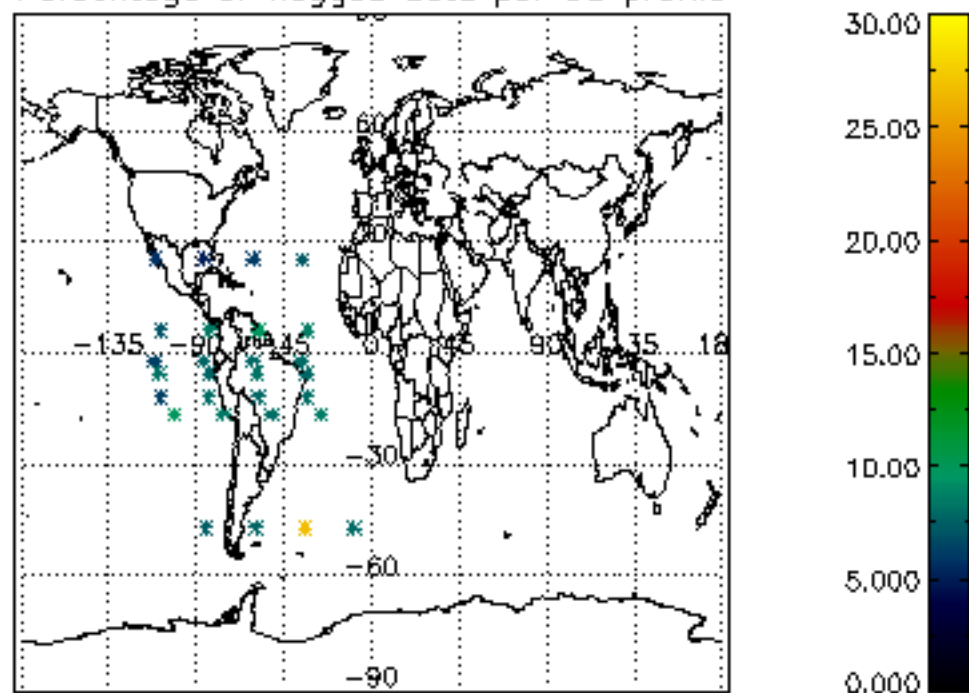




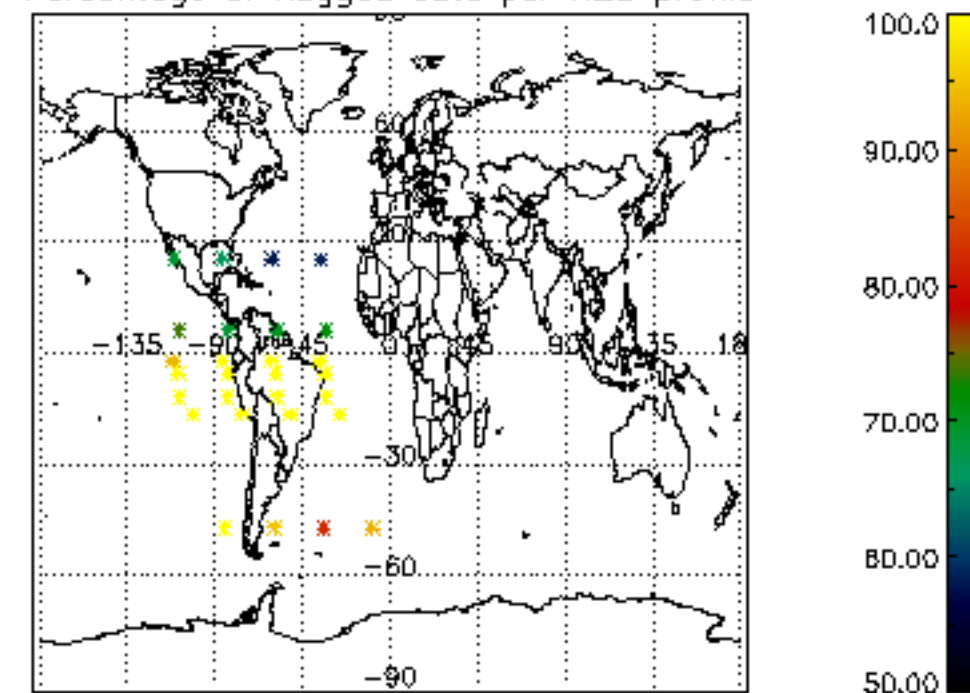




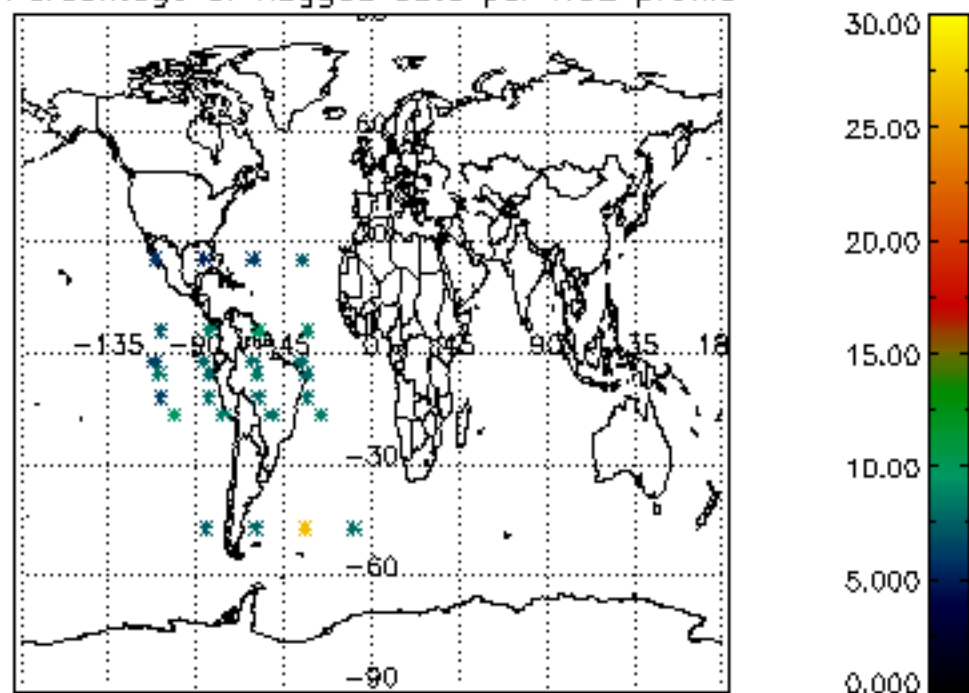
Percentage of flagged data per D3 profile



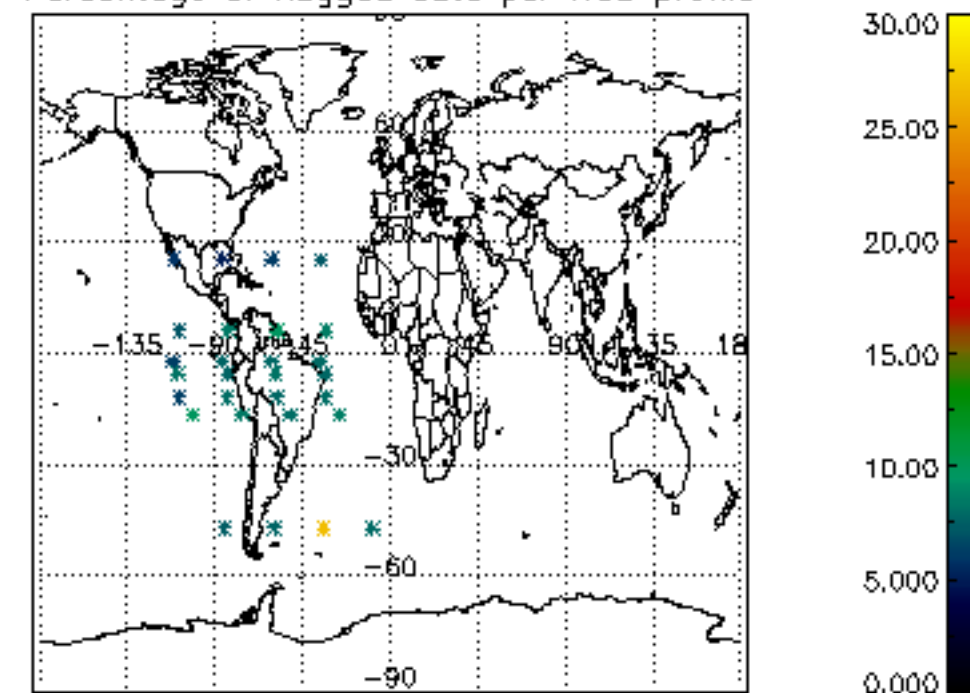
Percentage of flagged data per H2O profile

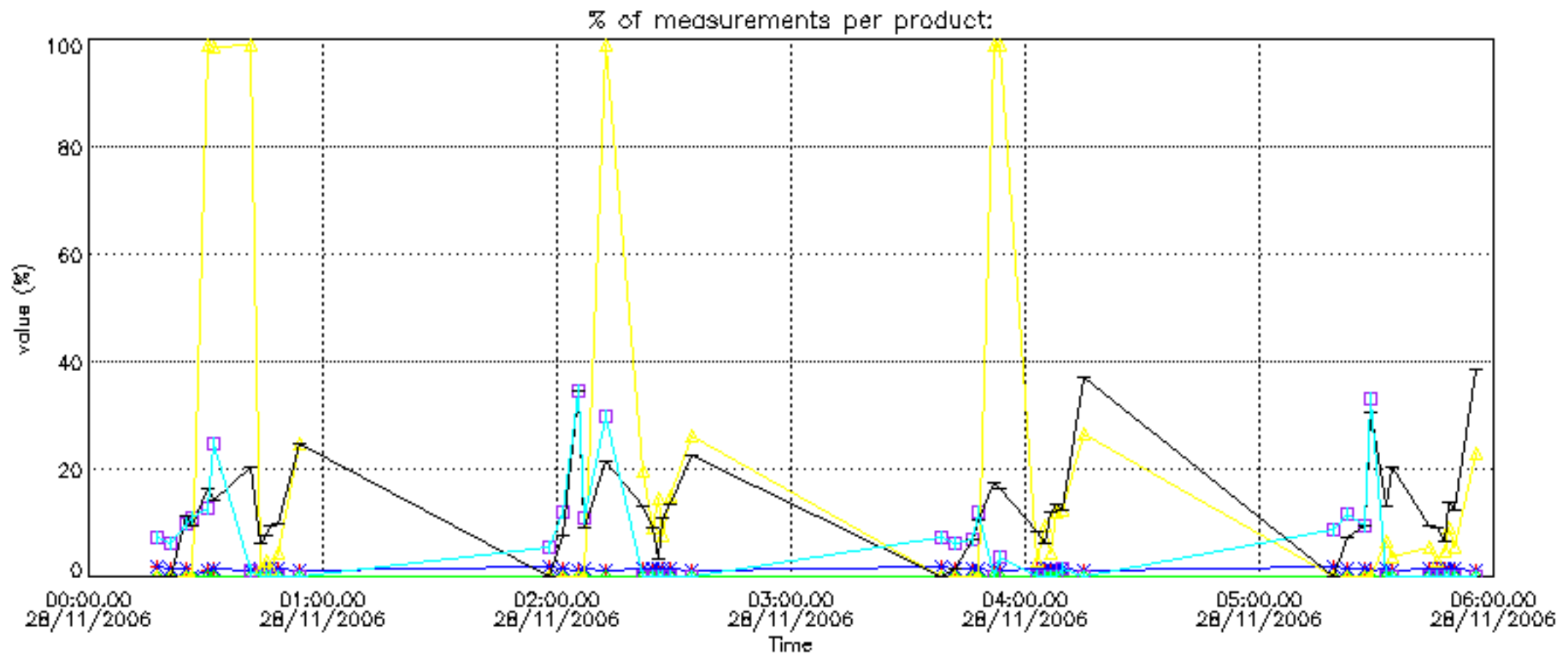


Percentage of flagged data per NO2 profile

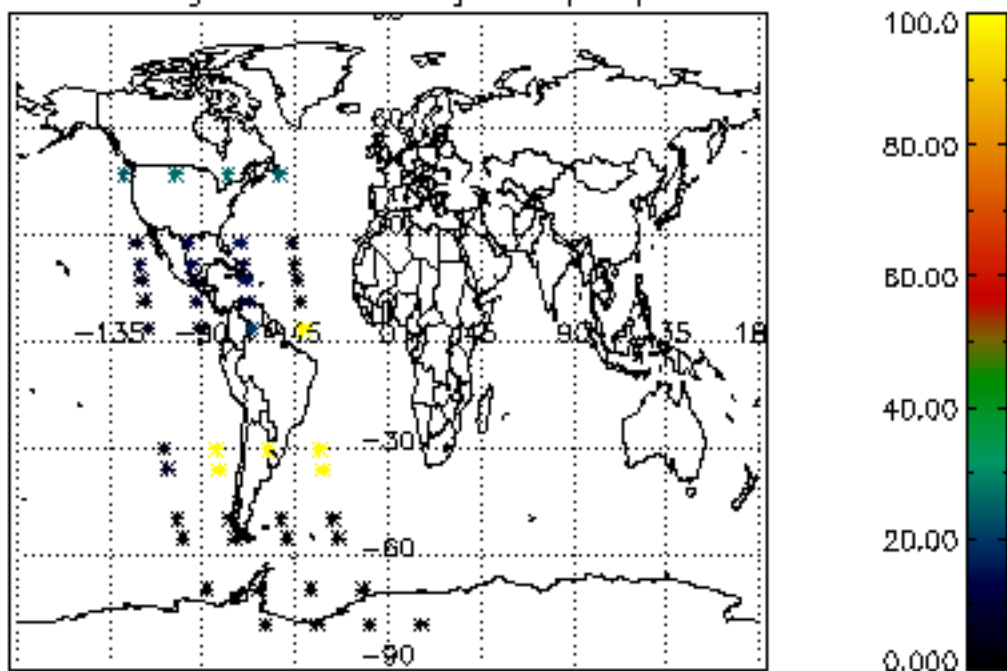


Percentage of flagged data per NO3 profile

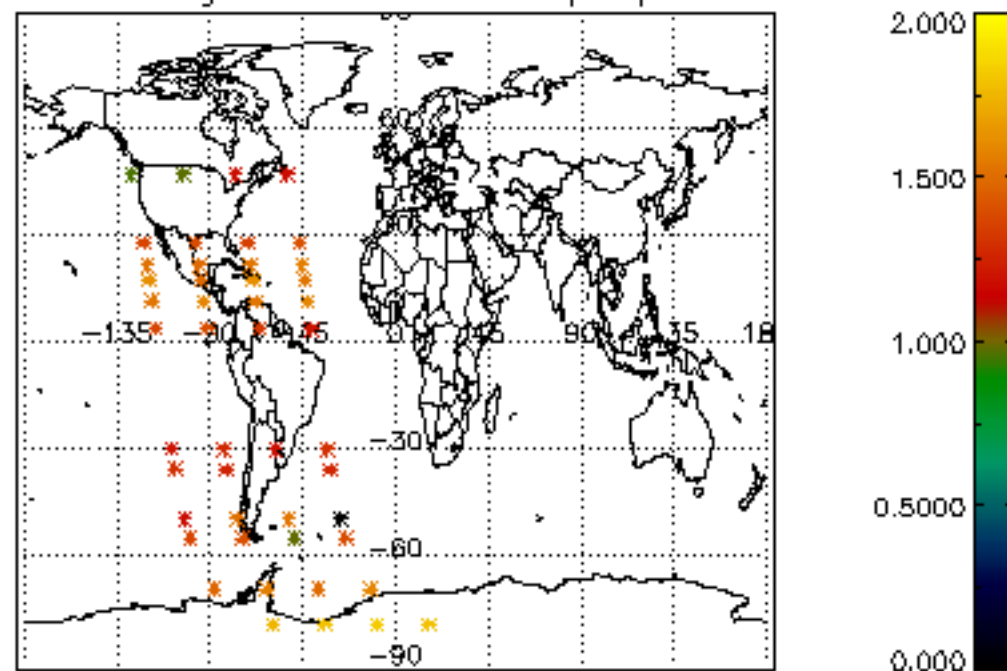




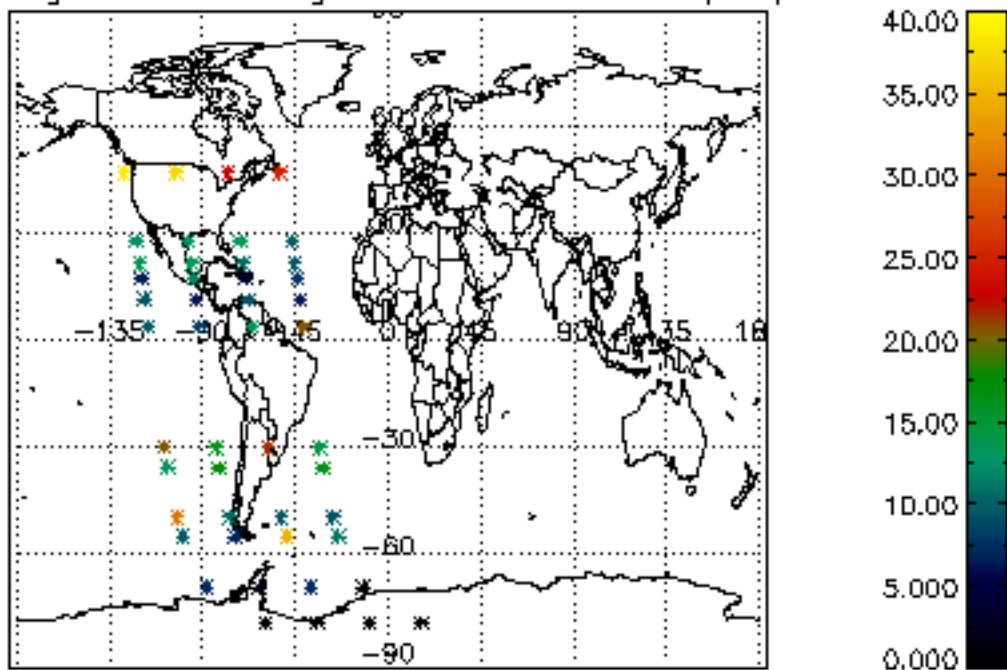
Percentage of cosmic ray hits per profile



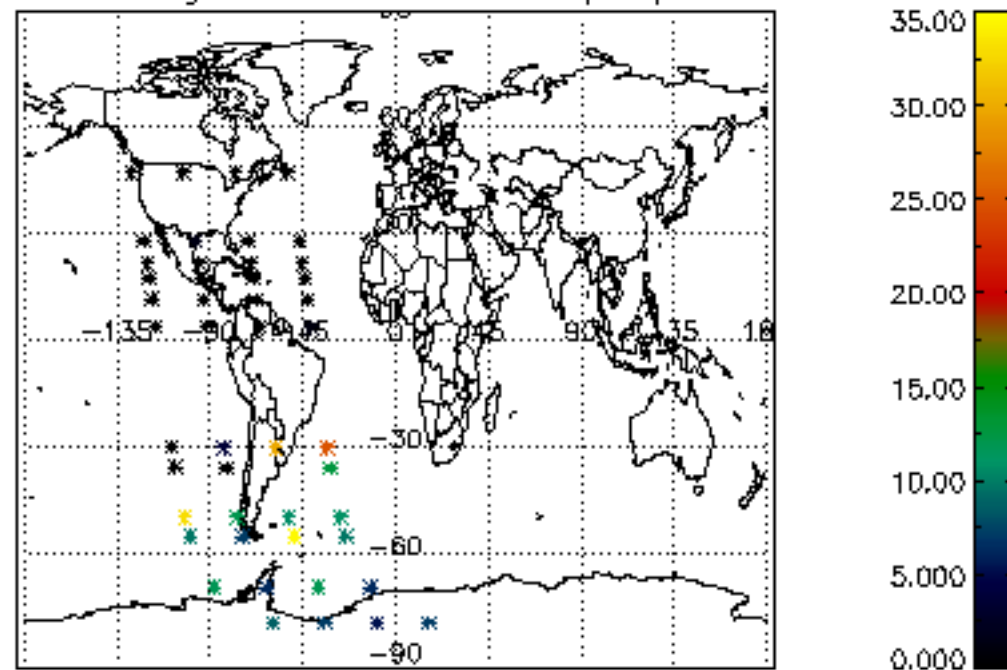
Percentage of datation errors per profile



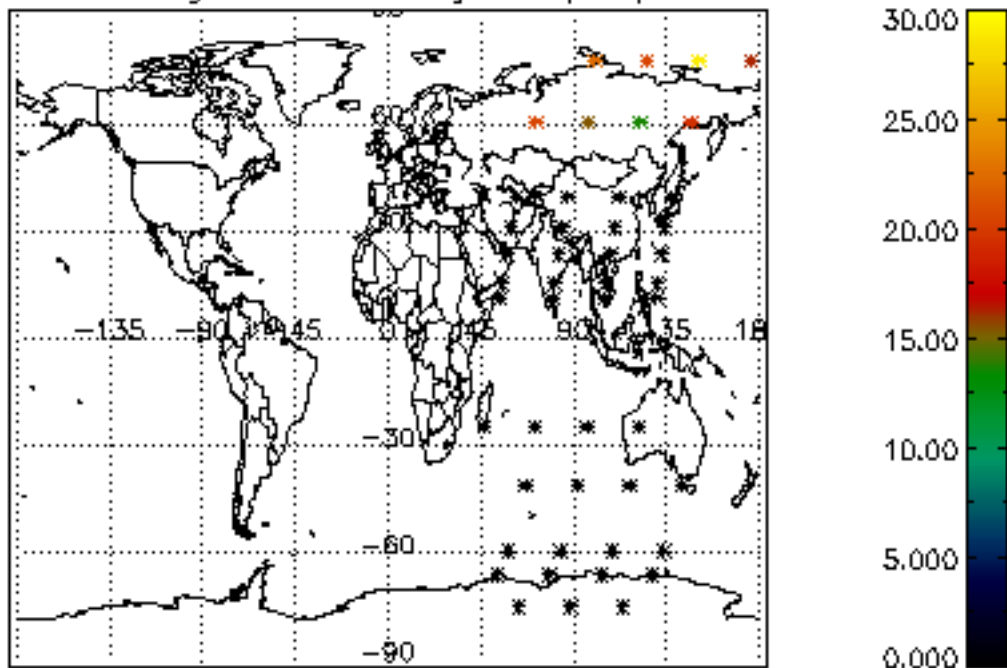
Percentage of star falling outside central band per profile



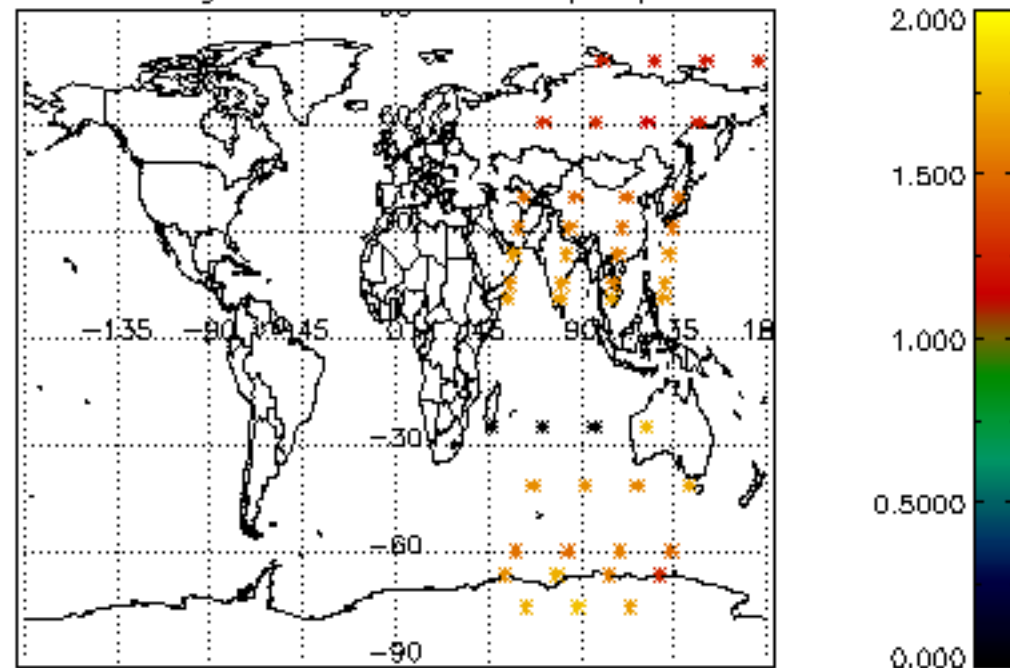
Percentage of saturation errors per profile



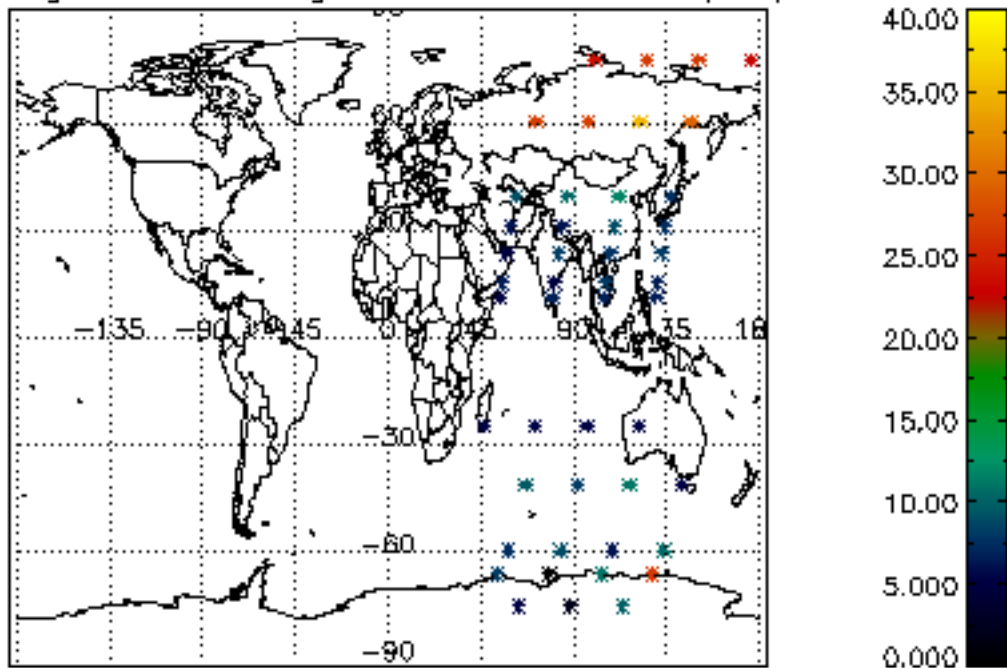
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

