

# 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	26APR2013 17:33:18
Data source version	GOMOS/6.01
Start time of products	22-02-2010 (22FEB2010 00:00:00)
Stop time of products	23-02-2010 (23FEB2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	89
Nb of prods with errors	0

## 2. Summary of processed GOM\_NL\_\_2P products.

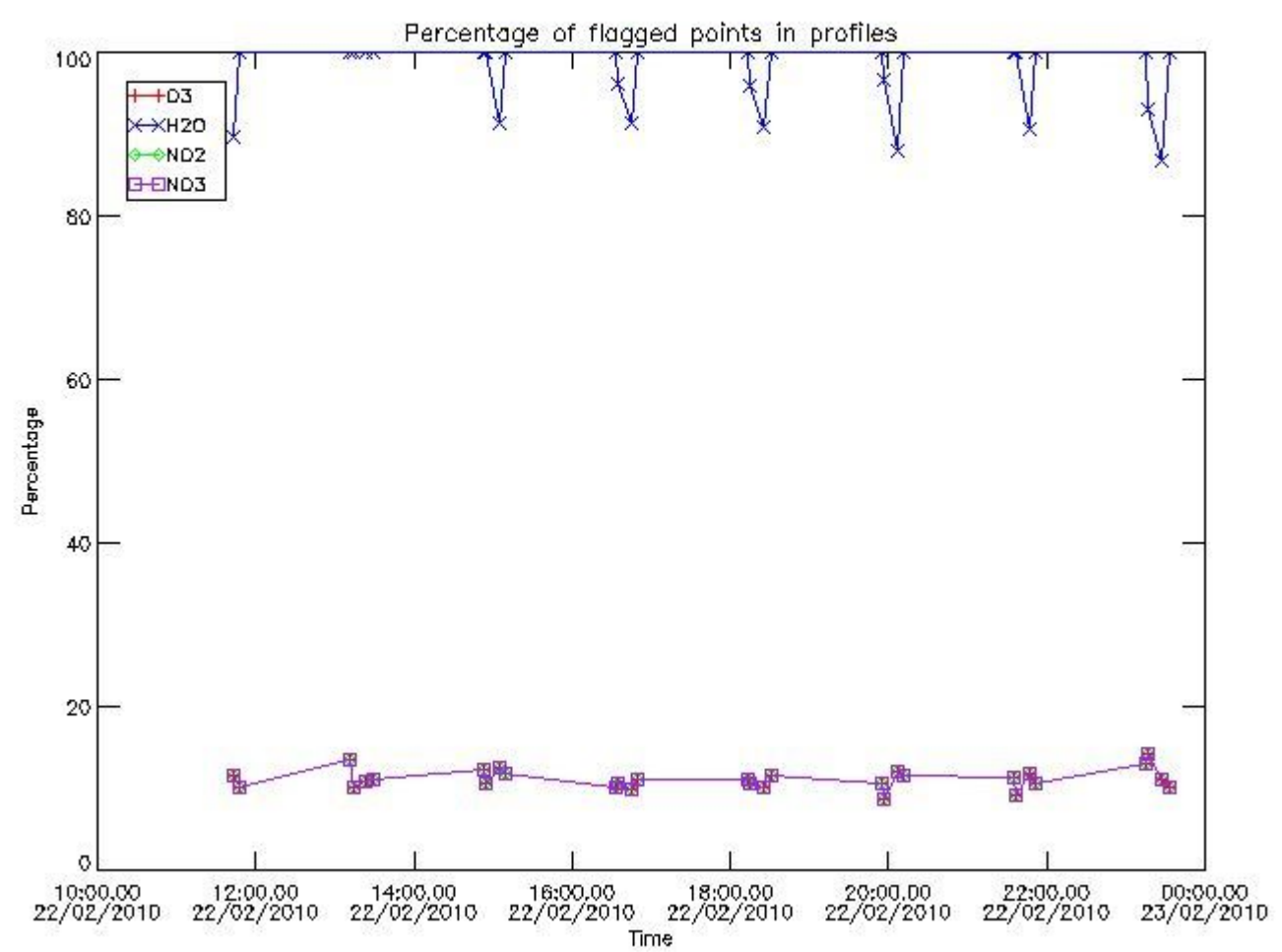
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20100222_114312_000000442087_00095_41732_6253.N1	22-FEB-2010 11:43:12	Dark	44.000	10	Bet Cen	0.61000	28000.	88	41732	No
2	GOM_NL__2PRFIN20100222_114808_000000502087_00095_41732_6254.N1	22-FEB-2010 11:48:08	Dark	50.000	64	Gam Cen	2.2000	10600.	100	41732	No
3	GOM_NL__2PRFIN20100222_115142_000000452087_00095_41732_6255.N1	22-FEB-2010 11:51:42	Straylight	44.500	113	Mu Vel	2.6920	5000.0	89	41732	No
4	GOM_NL__2PRFIN20100222_120443_000000492087_00095_41732_6256.N1	22-FEB-2010 12:04:43	Twilight	48.500	48	30Alp Hya	1.9770	4100.0	97	41732	No
5	GOM_NL__2PRFIN20100222_121444_000000412087_00095_41732_6257.N1	22-FEB-2010 12:14:44	Bright	40.500	166	17Eps Leo	2.9800	6000.0	81	41732	No
6	GOM_NL__2PRFIN20100222_122723_000000422087_00095_41732_6258.N1	22-FEB-2010 12:27:23	Bright	42.000	36	50Alp UMa	1.8000	6300.0	84	41732	No
7	GOM_NL__2PRFIN20100222_123422_000000372087_00095_41732_6259.N1	22-FEB-2010 12:34:22	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	41732	No
8	GOM_NL__2PRFIN20100222_124346_000000432087_00095_41732_6260.N1	22-FEB-2010 12:43:46	Bright	42.500	69	33Gam Dra	2.2310	3800.0	85	41732	No
9	GOM_NL__2PRFIN20100222_124754_000000472087_00095_41732_6261.N1	22-FEB-2010 12:47:54	Bright	46.500	5	3Alp Lyr	0.033000	11000.	93	41732	No
10	GOM_NL__2PRFIN20100222_125507_000000362087_00095_41732_6262.N1	22-FEB-2010 12:55:07	Bright	35.500	168	17Zet Aql	2.9860	11000.	71	41732	No
11	GOM_NL__2PRFIN20100222_131154_000000462087_00095_41732_6263.N1	22-FEB-2010 13:11:54	Dark	45.500	25	35Lam Sco	1.6200	28000.	91	41732	No
12	GOM_NL__2PRFIN20100222_131333_000000512087_00095_41732_6264.N1	22-FEB-2010 13:13:33	Dark	50.500	75	26Eps Sco	2.2910	4250.0	101	41732	No
13	GOM_NL__2PRFIN20100222_132349_000000472087_00096_41733_6261.N1	22-FEB-2010 13:23:49	Dark	47.000	10	Bet Cen	0.61000	28000.	94	41733	No
14	GOM_NL__2PRFIN20100222_132844_000000462087_00096_41733_6262.N1	22-FEB-2010 13:28:44	Dark	45.500	64	Gam Cen	2.2000	10600.	91	41733	No
15	GOM_NL__2PRFIN20100222_133218_000000422087_00096_41733_6263.N1	22-FEB-2010 13:32:18	Straylight	41.500	113	Mu Vel	2.6920	5000.0	83	41733	No
16	GOM_NL__2PRFIN20100222_134518_000000462087_00096_41733_6264.N1	22-FEB-2010 13:45:18	Twilight	46.000	48	30Alp Hya	1.9770	4100.0	92	41733	No
17	GOM_NL__2PRFIN20100222_135520_000000412087_00096_41733_6265.N1	22-FEB-2010 13:55:20	Bright	41.000	166	17Eps Leo	2.9800	6000.0	82	41733	No
18	GOM_NL__2PRFIN20100222_140758_000000422087_00096_41733_6266.N1	22-FEB-2010 14:07:58	Bright	41.500	36	50Alp UMa	1.8000	6300.0	83	41733	No
19	GOM_NL__2PRFIN20100222_141458_000000372087_00096_41733_6267.N1	22-FEB-2010 14:14:58	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	41733	No
20	GOM_NL__2PRFIN20100222_142423_000000442087_00096_41733_6268.N1	22-FEB-2010 14:24:23	Bright	44.000	69	33Gam Dra	2.2310	3800.0	88	41733	No
21	GOM_NL__2PRFIN20100222_142830_000000392087_00096_41733_6269.N1	22-FEB-2010 14:28:30	Bright	38.500	5	3Alp Lyr	0.033000	11000.	77	41733	No
22	GOM_NL__2PRFIN20100222_143543_000000372087_00096_41733_6270.N1	22-FEB-2010 14:35:43	Bright	37.000	168	17Zet Aql	2.9860	11000.	74	41733	No
23	GOM_NL__2PRFIN20100222_145231_000000422087_00096_41733_6271.N1	22-FEB-2010 14:52:31	Dark	41.500	25	35Lam Sco	1.6200	28000.	83	41733	No
24	GOM_NL__2PRFIN20100222_145410_000000482087_00096_41733_6272.N1	22-FEB-2010 14:54:10	Dark	48.000	75	26Eps Sco	2.2910	4250.0	96	41733	No
25	GOM_NL__2PRFIN20100222_150425_000000412087_00097_41734_6269.N1	22-FEB-2010 15:04:25	Dark	40.500	10	Bet Cen	0.61000	28000.	81	41734	No
26	GOM_NL__2PRFIN20100222_150921_000000432087_00097_41734_6270.N1	22-FEB-2010 15:09:21	Dark	43.000	64	Gam Cen	2.2000	10600.	86	41734	No
27	GOM_NL__2PRFIN20100222_151255_000000452087_00097_41734_6271.N1	22-FEB-2010 15:12:55	Straylight	44.500	113	Mu Vel	2.6920	5000.0	89	41734	No
28	GOM_NL__2PRFIN20100222_152554_000000482087_00097_41734_6272.N1	22-FEB-2010 15:25:54	Twilight	48.000	48	30Alp Hya	1.9770	4100.0	96	41734	No
29	GOM_NL__2PRFIN20100222_153555_000000422087_00097_41734_6273.N1	22-FEB-2010 15:35:55	Bright	42.000	166	17Eps Leo	2.9800	6000.0	84	41734	No
30	GOM_NL__2PRFIN20100222_154834_000000442087_00097_41734_6274.N1	22-FEB-2010 15:48:34	Bright	43.500	36	50Alp UMa	1.8000	6300.0	87	41734	No
31	GOM_NL__2PRFIN20100222_155533_000000412087_00097_41734_6275.N1	22-FEB-2010 15:55:33	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	41734	No
32	GOM_NL__2PRFIN20100222_160459_000000412087_00097_41734_6276.N1	22-FEB-2010 16:04:59	Bright	40.500	69	33Gam Dra	2.2310	3800.0	81	41734	No
33	GOM_NL__2PRFIN20100222_160906_000000432087_00097_41734_6277.N1	22-FEB-2010 16:09:06	Bright	43.000	5	3Alp Lyr	0.033000	11000.	86	41734	No
34	GOM_NL__2PRFIN20100222_161619_000000552087_00097_41734_6278.N1	22-FEB-2010 16:16:19	Bright	55.000	168	17Zet Aql	2.9860	11000.	110	41734	No
35	GOM_NL__2PRFIN20100222_163308_000000512087_00097_41734_6279.N1	22-FEB-2010 16:33:08	Dark	50.500	25	35Lam Sco	1.6200	28000.	101	41734	No
36	GOM_NL__2PRFIN20100222_163447_000000532087_00097_41734_6280.N1	22-FEB-2010 16:34:47	Dark	52.500	75	26Eps Sco	2.2910	4250.0	105	41734	No
37	GOM_NL__2PRFIN20100222_164502_000000522087_00098_41735_6277.N1	22-FEB-2010 16:45:02	Dark	52.000	10	Bet Cen	0.61000	28000.	104	41735	No
38	GOM_NL__2PRFIN20100222_164958_000000462087_00098_41735_6278.N1	22-FEB-2010 16:49:58	Dark	46.000	64	Gam Cen	2.2000	10600.	92	41735	No
39	GOM_NL__2PRFIN20100222_165331_000000432087_00098_41735_6279.N1	22-FEB-2010 16:53:31	Straylight	43.000	113	Mu Vel	2.6920	5000.0	86	41735	No
40	GOM_NL__2PRFIN20100222_170631_000000452087_00098_41735_6280.N1	22-FEB-2010 17:06:31	Twilight	45.000	48	30Alp Hya	1.9770	4100.0	90	41735	No
41	GOM_NL__2PRFIN20100222_171631_000000412087_00098_41735_6281.N1	22-FEB-2010 17:16:31	Bright	41.000	166	17Eps Leo	2.9800	6000.0	82	41735	No
42	GOM_NL__2PRFIN20100222_172909_000000422087_00098_41735_6282.N1	22-FEB-2010 17:29:09	Bright	41.500	36	50Alp UMa	1.8000	6300.0	83	41735	No

43	GOM_NL__2PRFIN20100222_173609_000000412087_00098_41735_6283.N1	22-FEB-2010 17:36:09	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	41735	No
44	GOM_NL__2PRFIN20100222_174534_000000432087_00098_41735_6284.N1	22-FEB-2010 17:45:34	Bright	42.500	69	33Gam Dra	2.2310	3800.0	85	41735	No
45	GOM_NL__2PRFIN20100222_174942_000000372087_00098_41735_6285.N1	22-FEB-2010 17:49:42	Bright	37.000	5	3Alp Lyr	0.033000	11000.	74	41735	No
46	GOM_NL__2PRFIN20100222_175655_000000552087_00098_41735_6286.N1	22-FEB-2010 17:56:55	Bright	55.000	168	17Zet Aql	2.9860	11000.	110	41735	No
47	GOM_NL__2PRFIN20100222_181345_000000462087_00098_41735_6287.N1	22-FEB-2010 18:13:45	Dark	46.000	25	35Lam Sco	1.6200	28000.	92	41735	No
48	GOM_NL__2PRFIN20100222_181524_000000482087_00098_41735_6288.N1	22-FEB-2010 18:15:24	Dark	48.000	75	26Eps Sco	2.2910	4250.0	96	41735	No
49	GOM_NL__2PRFIN20100222_182538_000000502087_00099_41736_6305.N1	22-FEB-2010 18:25:38	Dark	50.000	10	Bet Cen	0.61000	28000.	100	41736	No
50	GOM_NL__2PRFIN20100222_183034_000000452087_00099_41736_6306.N1	22-FEB-2010 18:30:34	Dark	44.500	64	Gam Cen	2.2000	10600.	89	41736	No
51	GOM_NL__2PRFIN20100222_183407_000000412087_00099_41736_6307.N1	22-FEB-2010 18:34:07	Straylight	41.000	113	Mu Vel	2.6920	5000.0	82	41736	No
52	GOM_NL__2PRFIN20100222_184707_000000442087_00099_41736_6308.N1	22-FEB-2010 18:47:07	Tw_i_and_stray	44.000	48	30Alp Hya	1.9770	4100.0	88	41736	No
53	GOM_NL__2PRFIN20100222_185707_000000432087_00099_41736_6309.N1	22-FEB-2010 18:57:07	Bright	43.000	166	17Eps Leo	2.9800	6000.0	86	41736	No
54	GOM_NL__2PRFIN20100222_190945_000000442087_00099_41736_6310.N1	22-FEB-2010 19:09:45	Bright	44.000	36	50Alp UMa	1.8000	6300.0	88	41736	No
55	GOM_NL__2PRFIN20100222_191645_000000412087_00099_41736_6311.N1	22-FEB-2010 19:16:45	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	41736	No
56	GOM_NL__2PRFIN20100222_192610_000000432087_00099_41736_6312.N1	22-FEB-2010 19:26:10	Bright	42.500	69	33Gam Dra	2.2310	3800.0	85	41736	No
57	GOM_NL__2PRFIN20100222_193018_000000372087_00099_41736_6313.N1	22-FEB-2010 19:30:18	Bright	37.000	5	3Alp Lyr	0.033000	11000.	74	41736	No
58	GOM_NL__2PRFIN20100222_193732_000000372087_00099_41736_6314.N1	22-FEB-2010 19:37:32	Bright	37.000	168	17Zet Aql	2.9860	11000.	74	41736	No
59	GOM_NL__2PRFIN20100222_195421_000000492087_00099_41736_6315.N1	22-FEB-2010 19:54:21	Dark	48.500	25	35Lam Sco	1.6200	28000.	97	41736	No
60	GOM_NL__2PRFIN20100222_195601_000000582087_00099_41736_6316.N1	22-FEB-2010 19:56:01	Dark	58.000	75	26Eps Sco	2.2910	4250.0	116	41736	No
61	GOM_NL__2PRFIN20100222_200615_000000422087_00100_41737_6313.N1	22-FEB-2010 20:06:15	Dark	42.000	10	Bet Cen	0.61000	28000.	84	41737	No
62	GOM_NL__2PRFIN20100222_201111_000000442087_00100_41737_6314.N1	22-FEB-2010 20:11:11	Dark	44.000	64	Gam Cen	2.2000	10600.	88	41737	No
63	GOM_NL__2PRFIN20100222_201444_000000462087_00100_41737_6315.N1	22-FEB-2010 20:14:44	Straylight	45.500	113	Mu Vel	2.6920	5000.0	91	41737	No
64	GOM_NL__2PRFIN20100222_202743_000000462087_00100_41737_6316.N1	22-FEB-2010 20:27:43	Tw_i_and_stray	46.000	48	30Alp Hya	1.9770	4100.0	92	41737	No
65	GOM_NL__2PRFIN20100222_203742_000000422087_00100_41737_6317.N1	22-FEB-2010 20:37:42	Bright	41.500	166	17Eps Leo	2.9800	6000.0	83	41737	No
66	GOM_NL__2PRFIN20100222_205020_000000422087_00100_41737_6318.N1	22-FEB-2010 20:50:20	Bright	42.000	36	50Alp UMa	1.8000	6300.0	84	41737	No
67	GOM_NL__2PRFIN20100222_205720_000000432087_00100_41737_6319.N1	22-FEB-2010 20:57:20	Bright	42.500	60	7Bet UMi	2.0810	3950.0	85	41737	No
68	GOM_NL__2PRFIN20100222_210646_000000442087_00100_41737_6320.N1	22-FEB-2010 21:06:46	Bright	43.500	69	33Gam Dra	2.2310	3800.0	87	41737	No
69	GOM_NL__2PRFIN20100222_211054_000000402087_00100_41737_6321.N1	22-FEB-2010 21:10:54	Bright	39.500	5	3Alp Lyr	0.033000	11000.	79	41737	No
70	GOM_NL__2PRFIN20100222_211808_000000372087_00100_41737_6322.N1	22-FEB-2010 21:18:08	Bright	37.000	168	17Zet Aql	2.9860	11000.	74	41737	No
71	GOM_NL__2PRFIN20100222_213458_000000452087_00100_41737_6323.N1	22-FEB-2010 21:34:58	Dark	45.000	25	35Lam Sco	1.6200	28000.	90	41737	No
72	GOM_NL__2PRFIN20100222_213638_000000552087_00100_41737_6324.N1	22-FEB-2010 21:36:38	Dark	55.000	75	26Eps Sco	2.2910	4250.0	110	41737	No
73	GOM_NL__2PRFIN20100222_214651_000000432087_00101_41738_6321.N1	22-FEB-2010 21:46:51	Dark	43.000	10	Bet Cen	0.61000	28000.	86	41738	No
74	GOM_NL__2PRFIN20100222_215147_000000482087_00101_41738_6322.N1	22-FEB-2010 21:51:47	Dark	48.000	64	Gam Cen	2.2000	10600.	96	41738	No
75	GOM_NL__2PRFIN20100222_215520_000000452087_00101_41738_6323.N1	22-FEB-2010 21:55:20	Straylight	44.500	113	Mu Vel	2.6920	5000.0	89	41738	No
76	GOM_NL__2PRFIN20100222_220819_000000502087_00101_41738_6324.N1	22-FEB-2010 22:08:19	Tw_i_and_stray	49.500	48	30Alp Hya	1.9770	4100.0	99	41738	No
77	GOM_NL__2PRFIN20100222_221818_000000412087_00101_41738_6325.N1	22-FEB-2010 22:18:18	Bright	41.000	166	17Eps Leo	2.9800	6000.0	82	41738	No
78	GOM_NL__2PRFIN20100222_223055_000000422087_00101_41738_6326.N1	22-FEB-2010 22:30:55	Bright	41.500	36	50Alp UMa	1.8000	6300.0	83	41738	No
79	GOM_NL__2PRFIN20100222_223756_000000392087_00101_41738_6327.N1	22-FEB-2010 22:37:56	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	41738	No
80	GOM_NL__2PRFIN20100222_224721_000000452087_00101_41738_6328.N1	22-FEB-2010 22:47:21	Bright	44.500	69	33Gam Dra	2.2310	3800.0	89	41738	No
81	GOM_NL__2PRFIN20100222_225130_000000382087_00101_41738_6329.N1	22-FEB-2010 22:51:30	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	41738	No
82	GOM_NL__2PRFIN20100222_225844_000000382087_00101_41738_6330.N1	22-FEB-2010 22:58:44	Bright	37.500	168	17Zet Aql	2.9860	11000.	75	41738	No
83	GOM_NL__2PRFIN20100222_231534_000000432087_00101_41738_6331.N1	22-FEB-2010 23:15:34	Dark	43.000	25	35Lam Sco	1.6200	28000.	86	41738	No
84	GOM_NL__2PRFIN20100222_231715_000000572087_00101_41738_6332.N1	22-FEB-2010 23:17:15	Dark	57.000	75	26Eps Sco	2.2910	4250.0	114	41738	No
85	GOM_NL__2PRFIN20100222_232728_000000462087_00102_41739_6329.N1	22-FEB-2010 23:27:28	Dark	46.000	10	Bet Cen	0.61000	28000.	92	41739	No
86	GOM_NL__2PRFIN20100222_233224_000000502087_00102_41739_6330.N1	22-FEB-2010 23:32:24	Dark	50.000	64	Gam Cen	2.2000	10600.	100	41739	No
87	GOM_NL__2PRFIN20100222_233557_000000442087_00102_41739_6331.N1	22-FEB-2010 23:35:57	Straylight	44.000	113	Mu Vel	2.6920	5000.0	88	41739	No
88	GOM_NL__2PRFIN20100222_234855_000000472087_00102_41739_6332.N1	22-FEB-2010 23:48:55	Tw_i_and_stray	47.000	48	30Alp Hya	1.9770	4100.0	94	41739	No
89	GOM_NL__2PRFIN20100222_235853_000000422087_00102_41739_6333.N1	22-FEB-2010 23:58:53	Bright	41.500	166	17Eps Leo	2.9800	6000.0	83	41739	No

### 3. Quality information per product

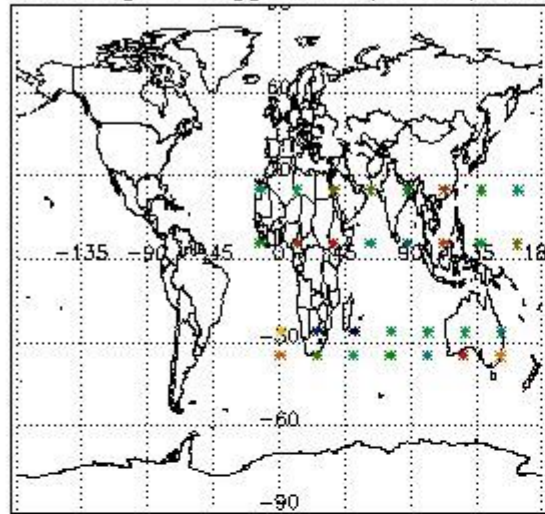
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

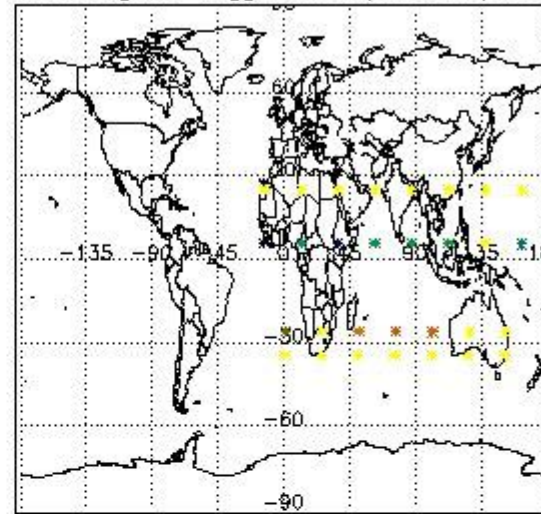


3.2 Plot quality information per product (world map)

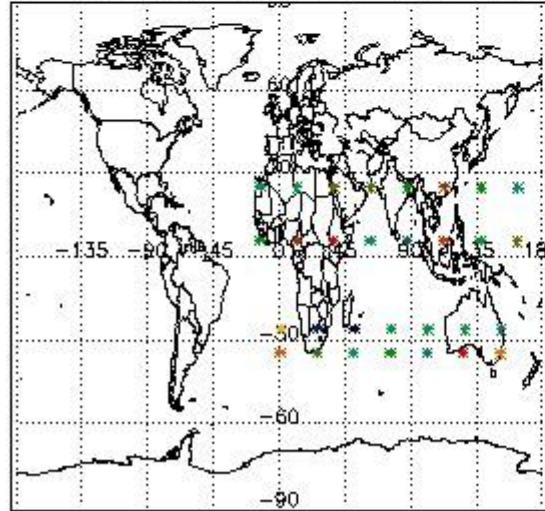
Percentage of flagged data per O3 profile



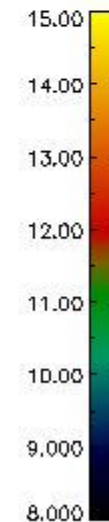
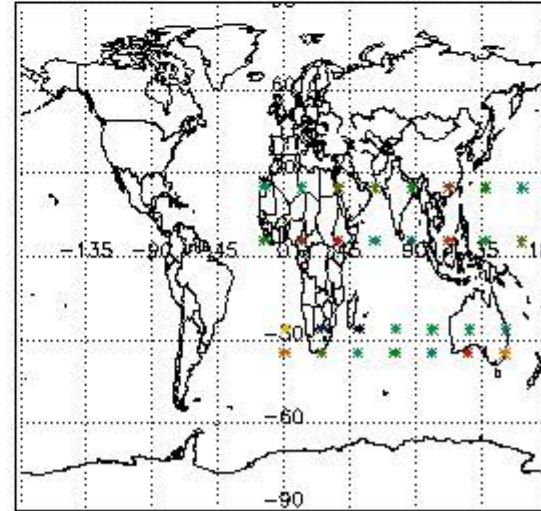
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

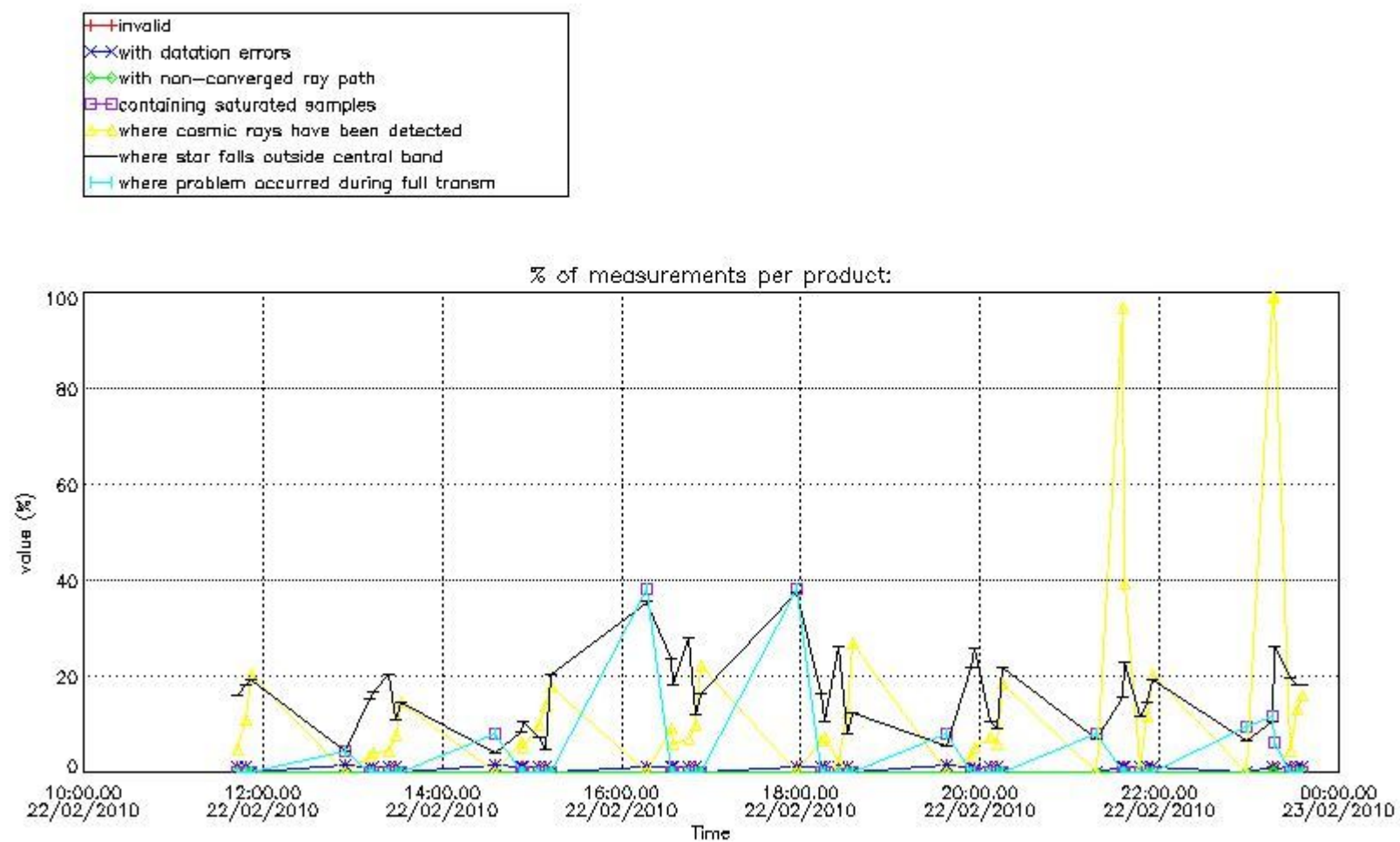


#### 4. Level 1 quality information per product

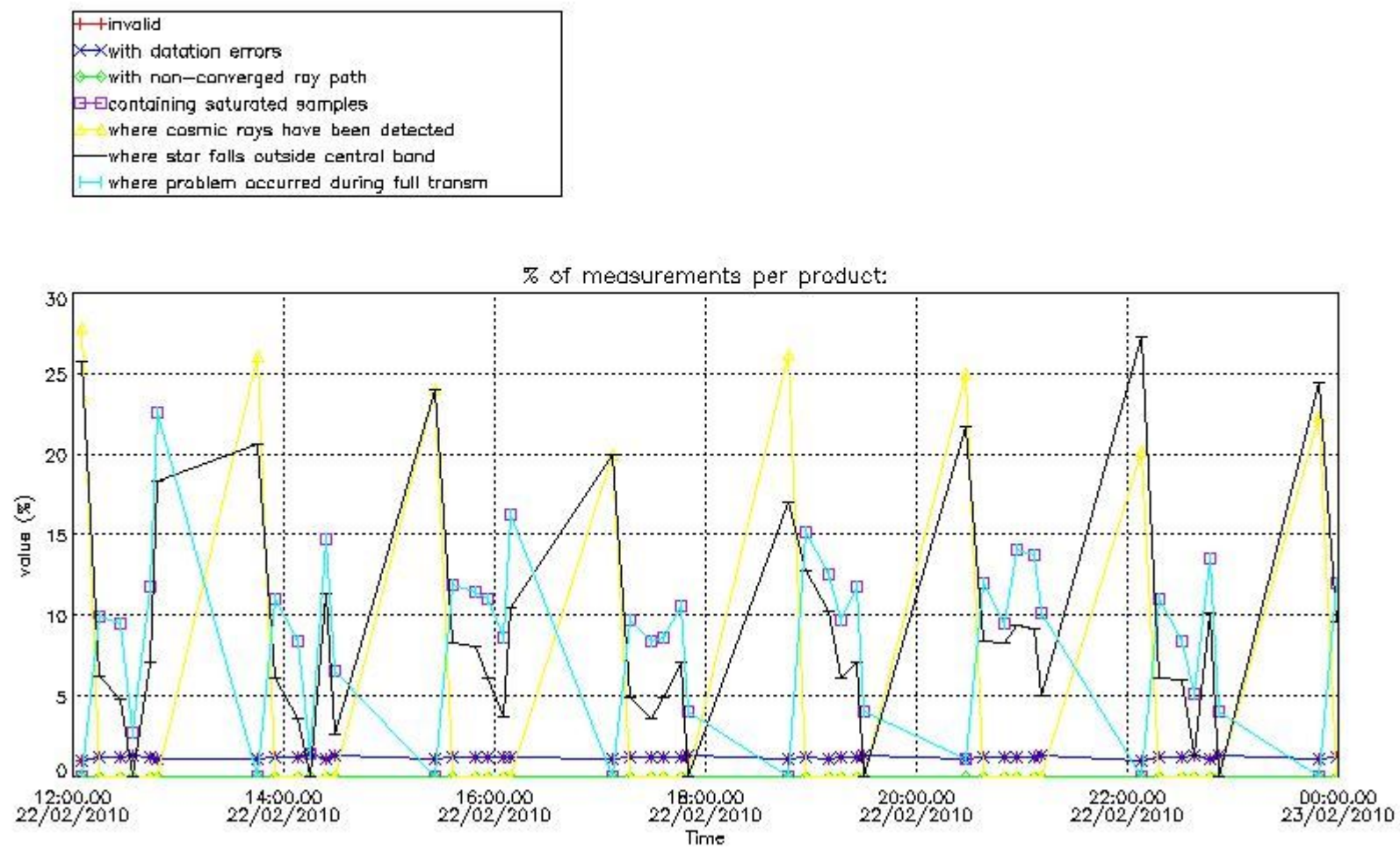
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



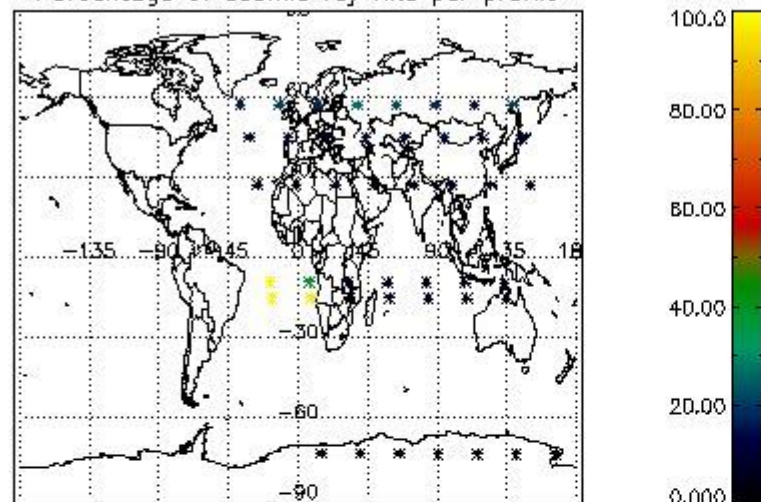
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



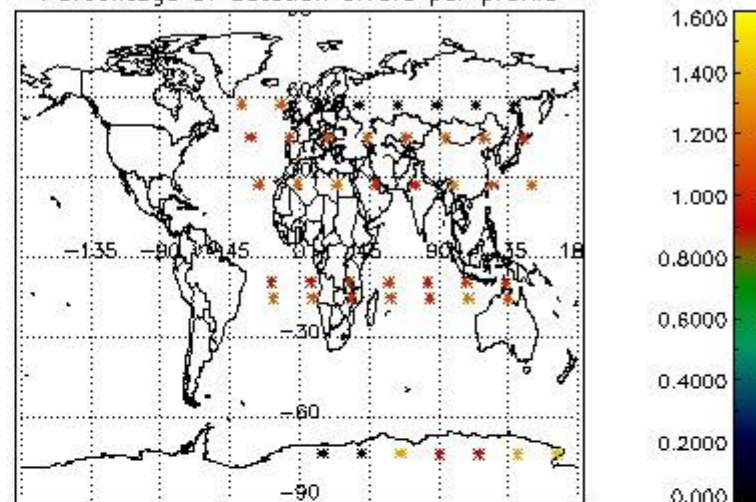
4.2 Plot quality information per product coming from level 1b processing (world map)

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

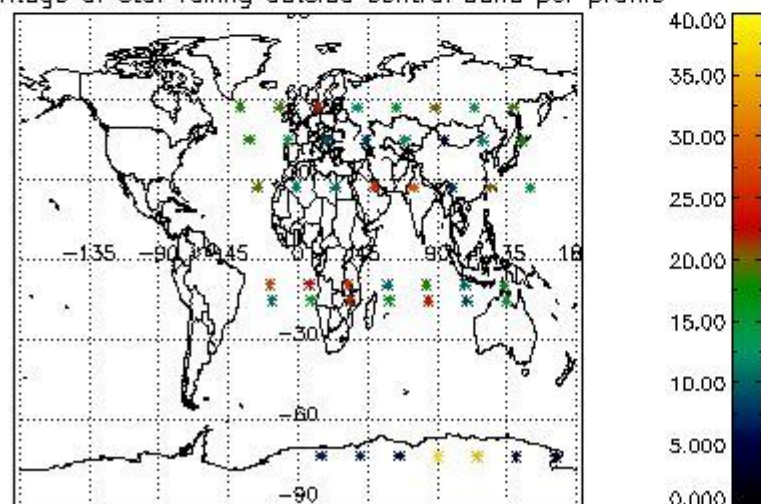
Percentage of cosmic ray hits per profile



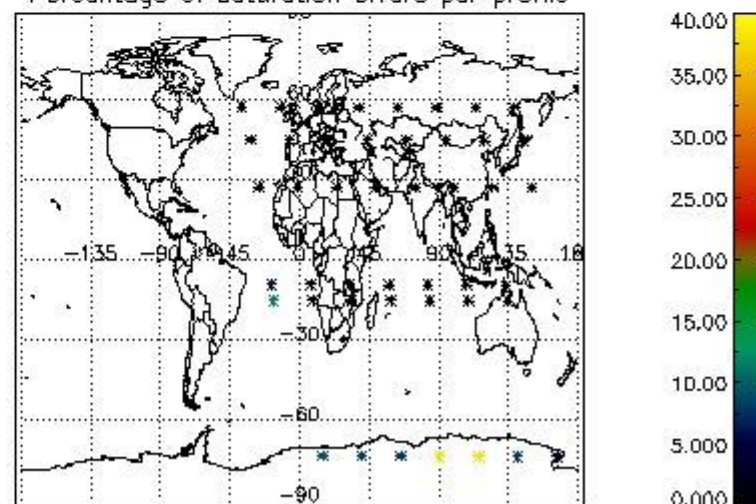
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

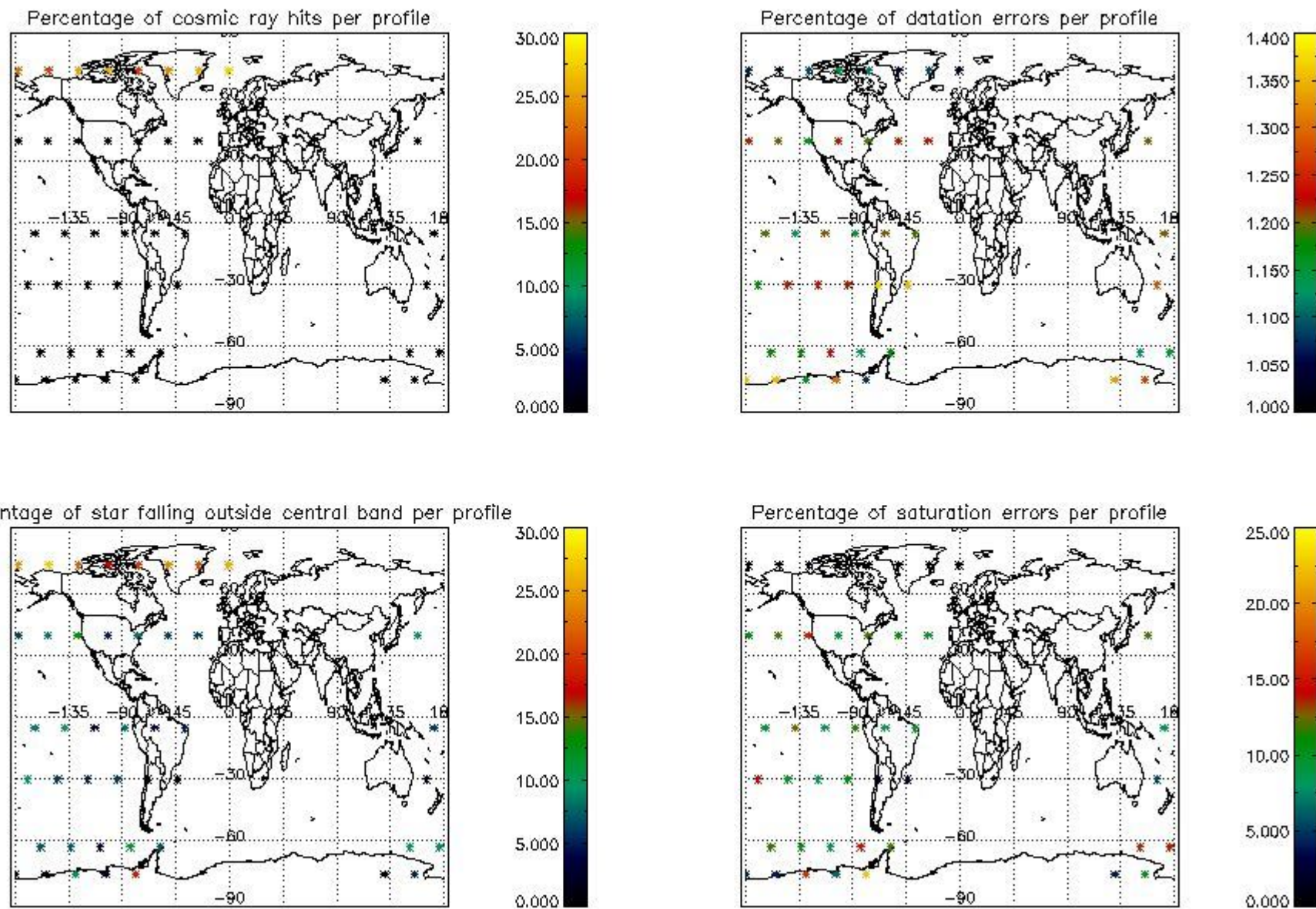


Percentage of saturation errors per profile



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

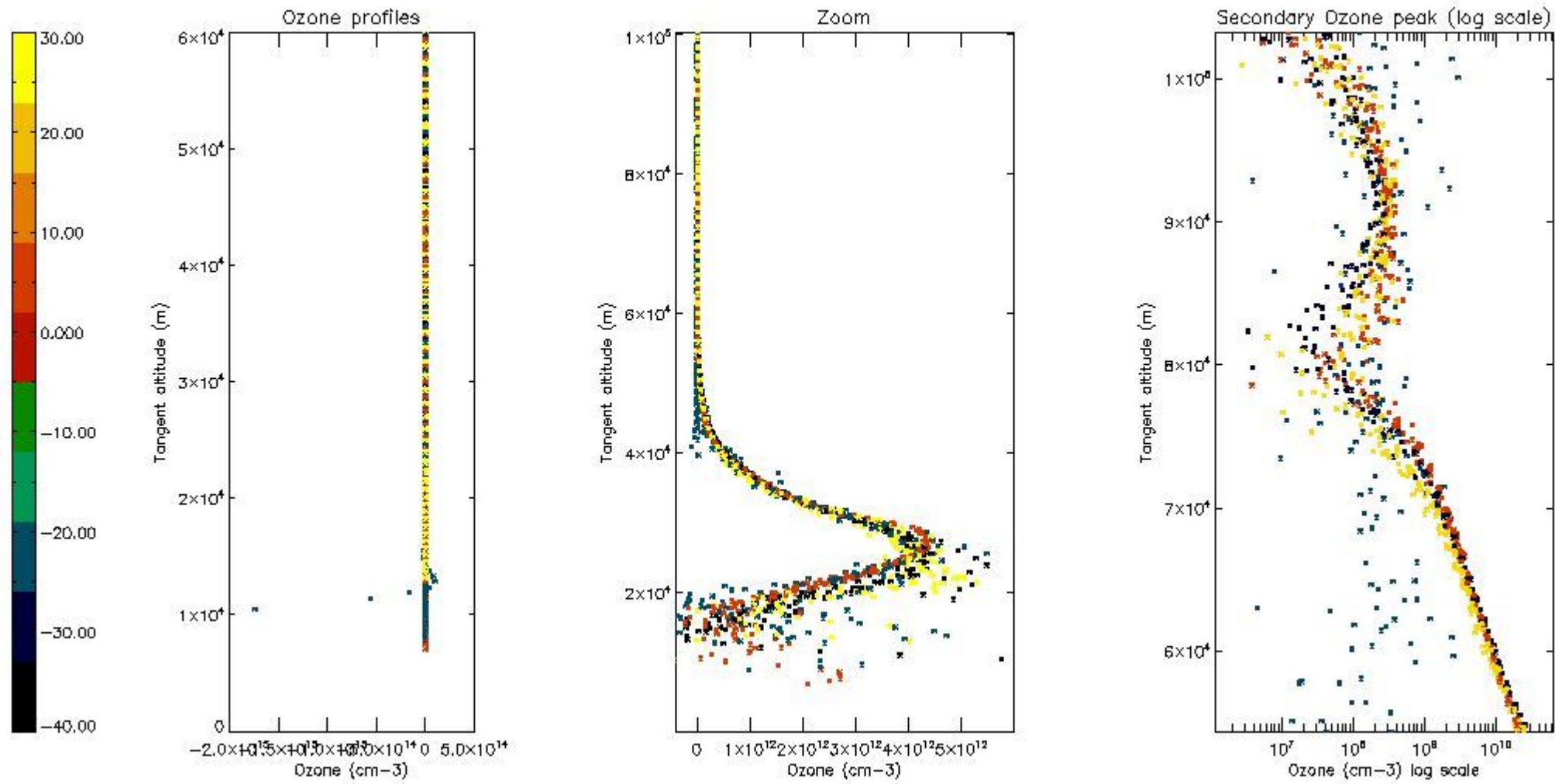
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

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

STD < 10	17
STD < 5	11

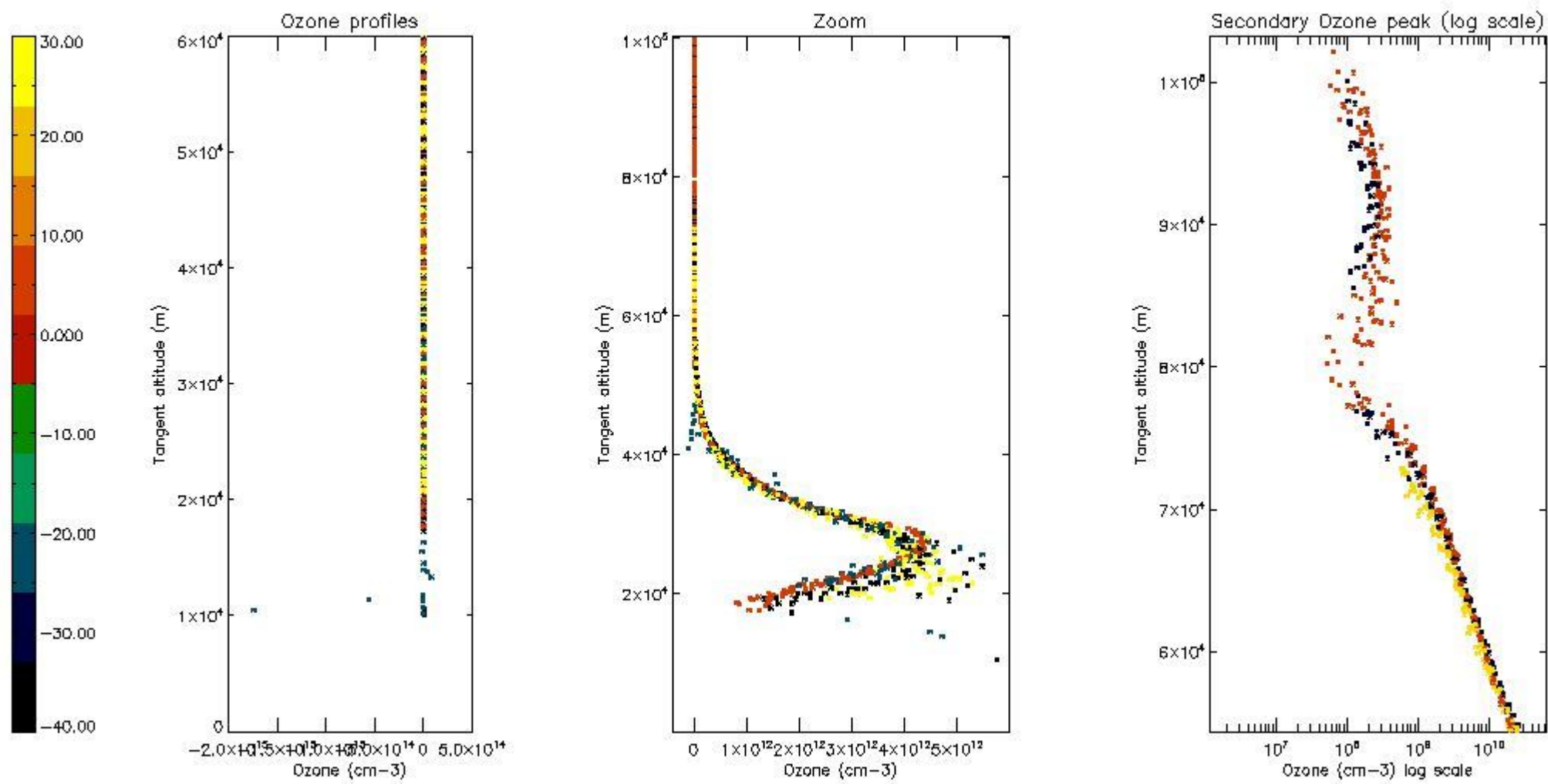
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



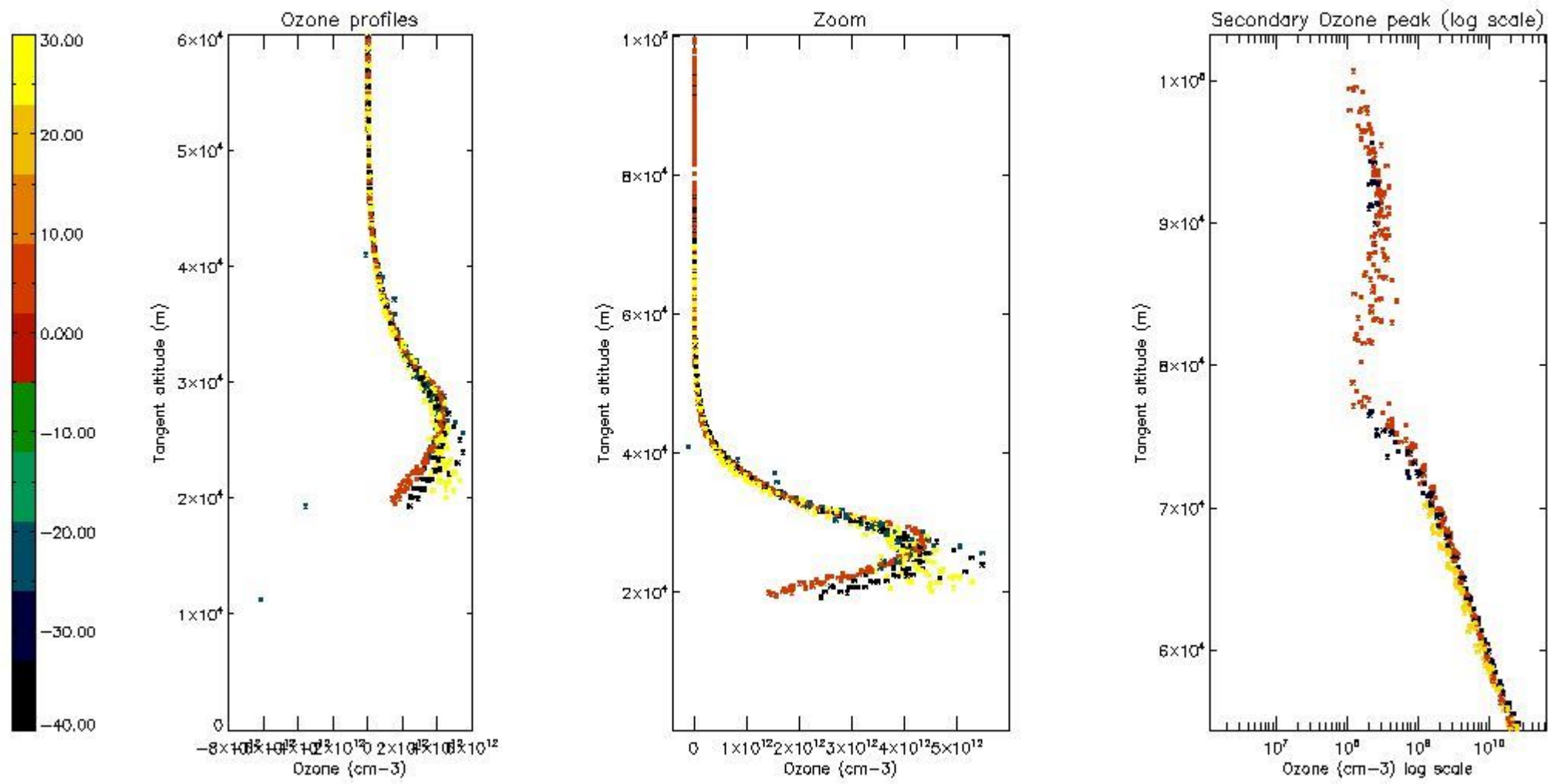
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



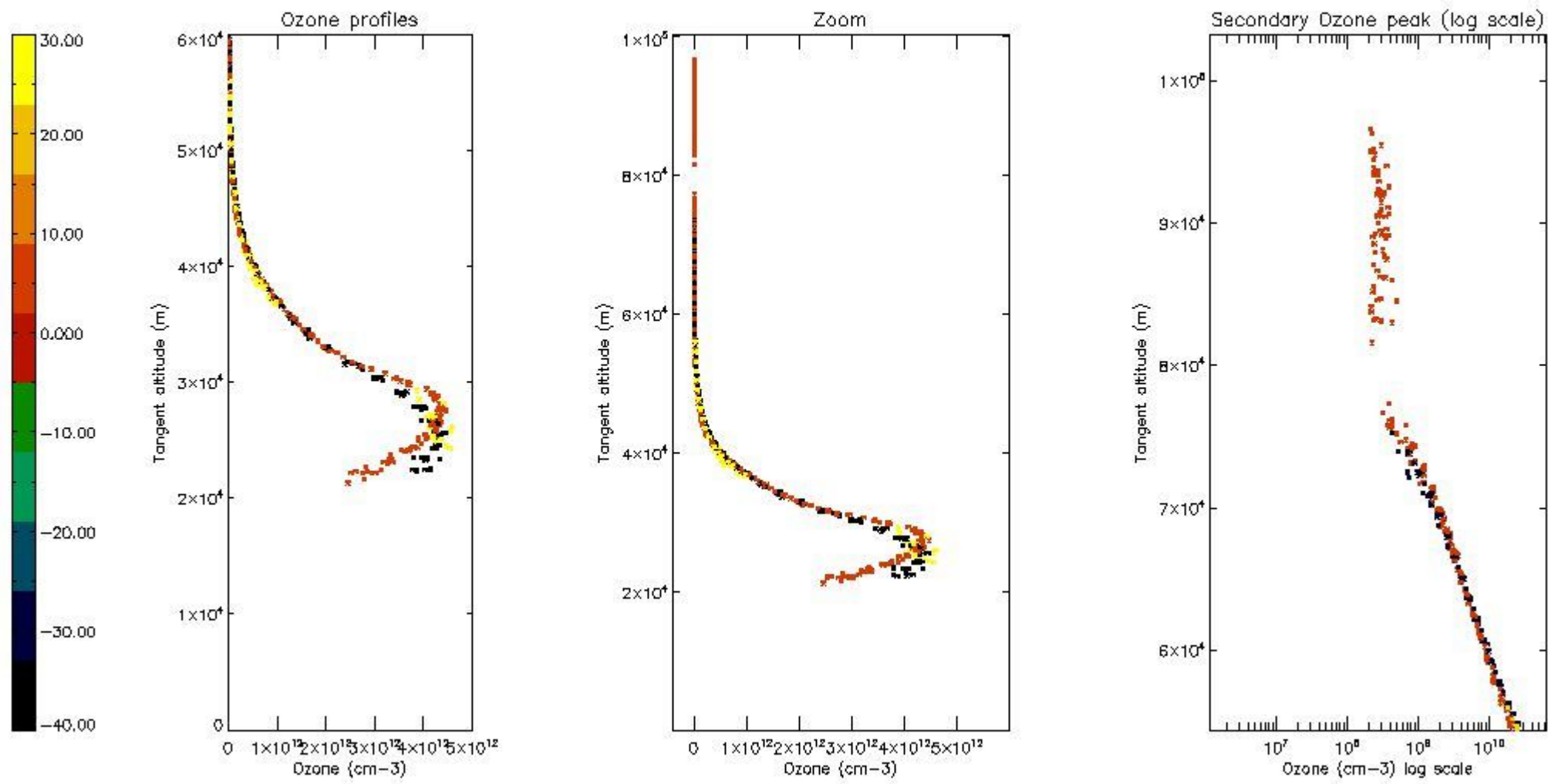
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



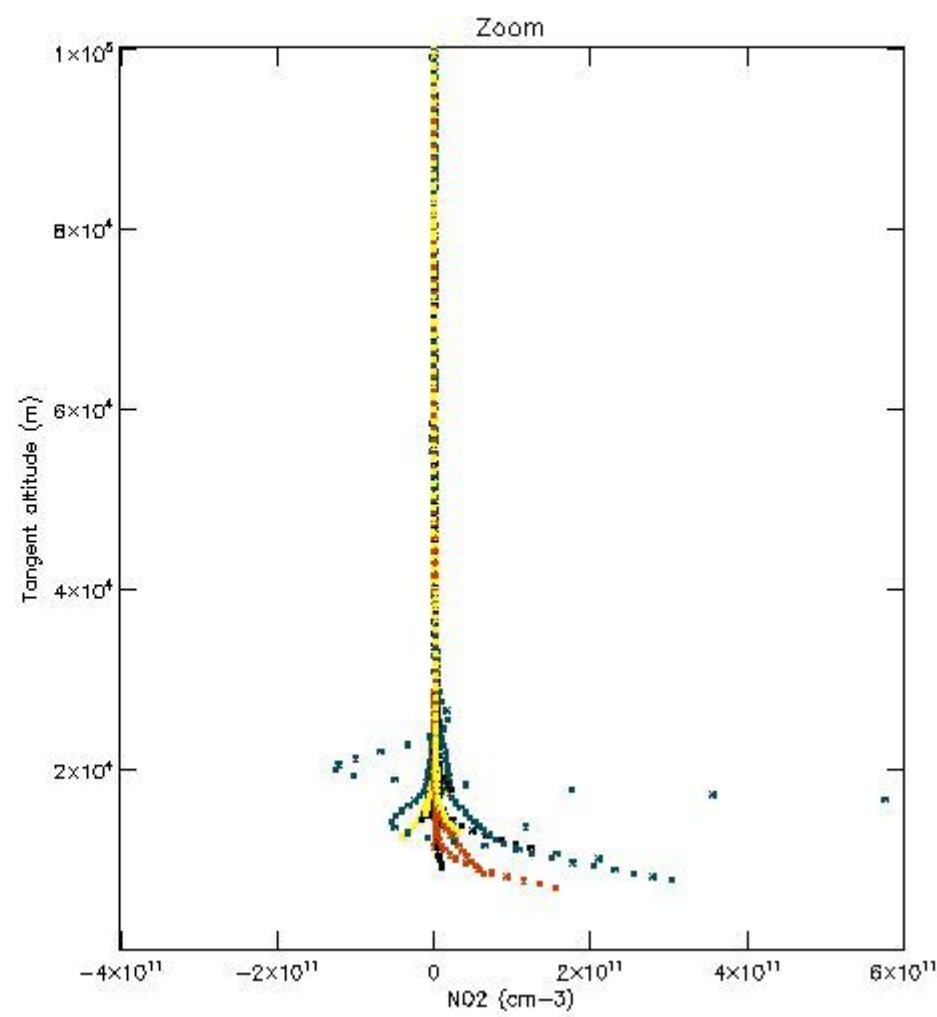
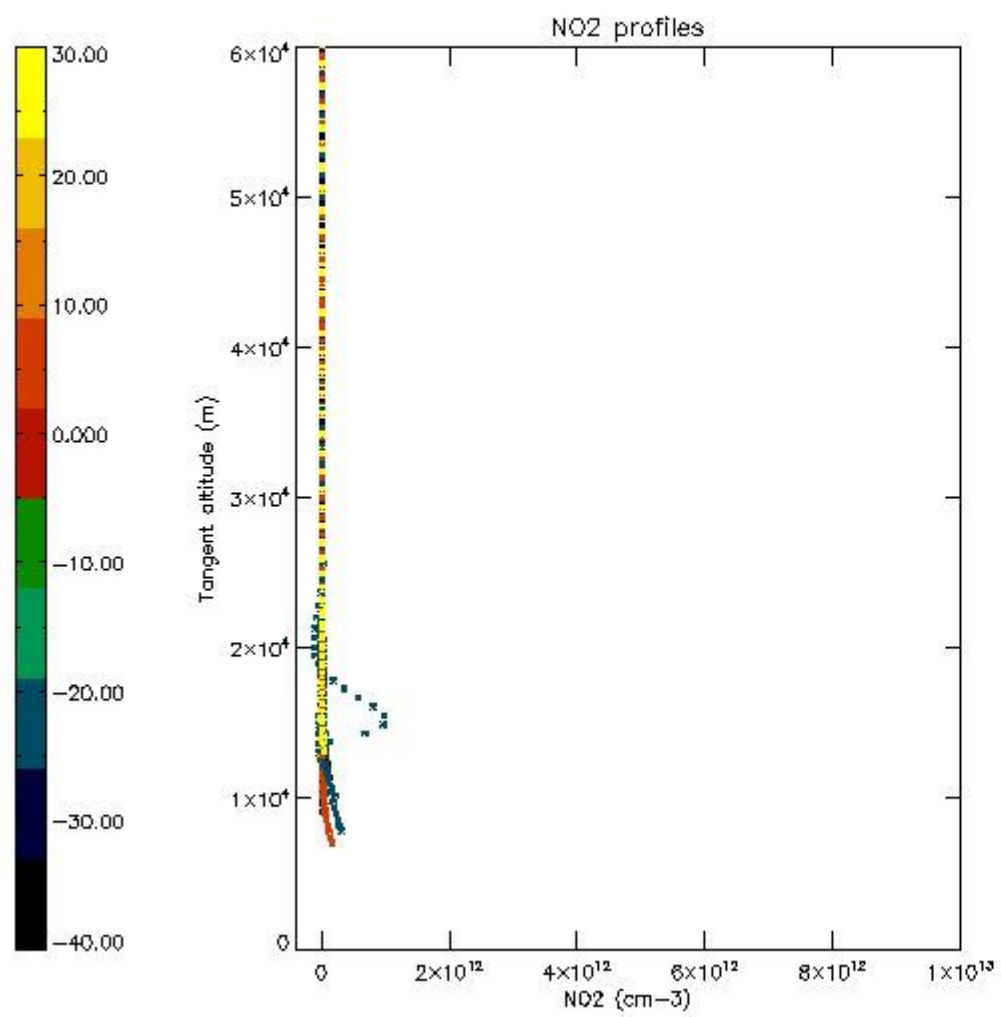
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



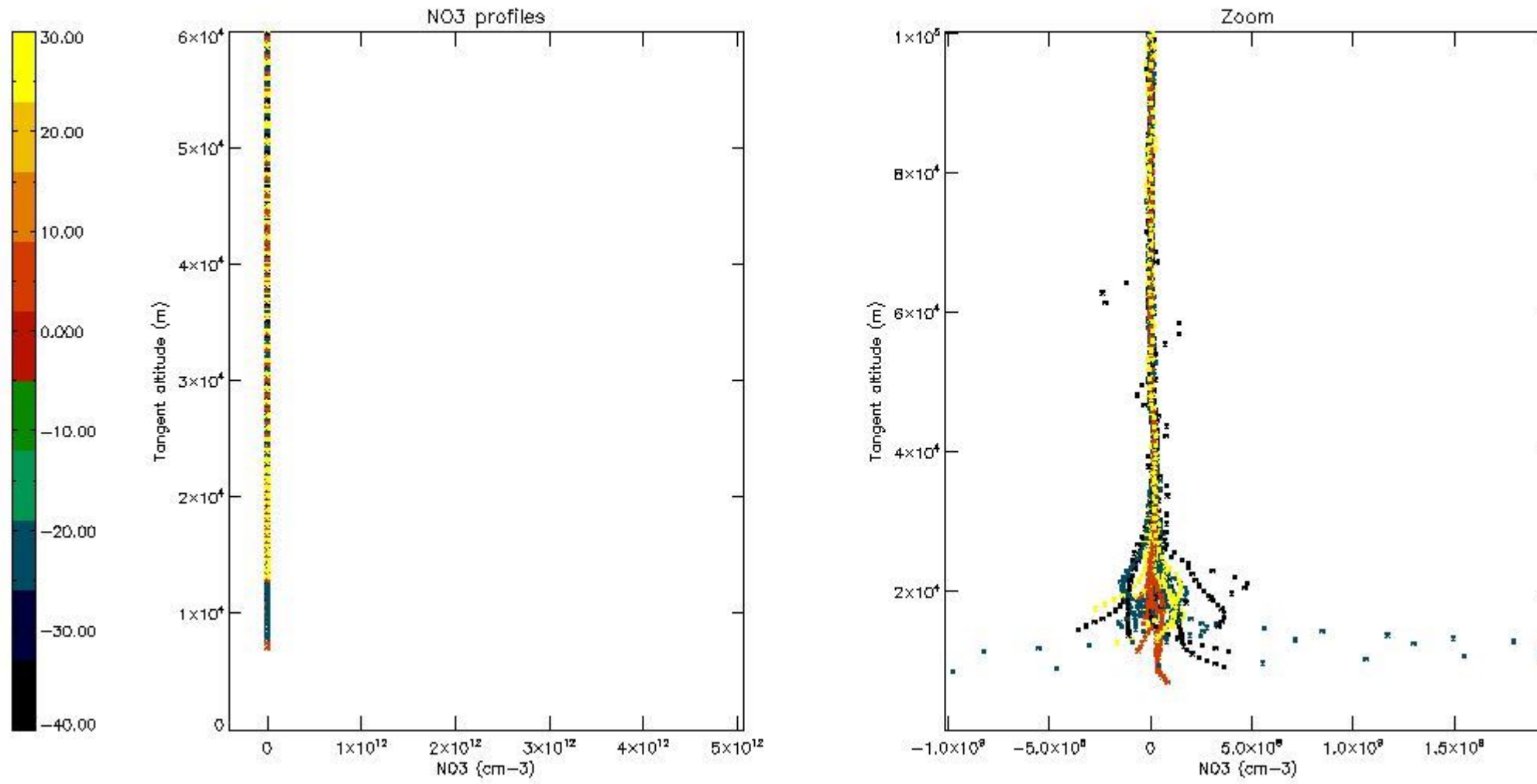
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

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	22-FEB-2010 11:43:12
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	22-FEB-2010 11:43:12
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	22-FEB-2010 11:43:12

# GOMOS Level 2 Daily Report

## SUMMARY

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

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

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

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

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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](#)

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

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

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

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

#### [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	26APR2013 17:33:18
Data source version	GOMOS/6.01
Start time of products	22-02-2010 (22FEB2010 00:00:00)
Stop time of products	23-02-2010 (23FEB2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	89
Nb of prods with errors	0

## 2. Summary of processed GOM\_NL\_\_2P products.

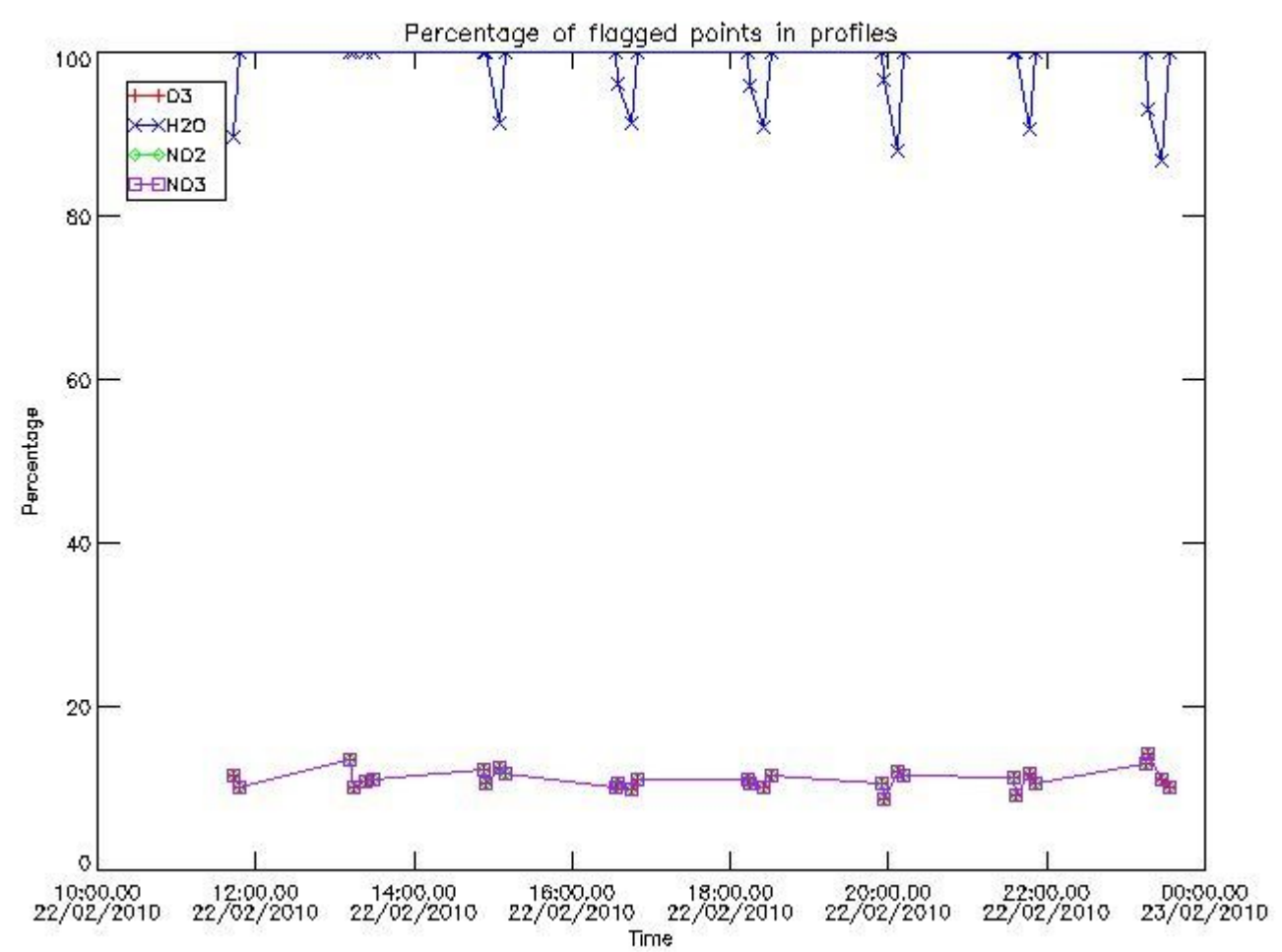
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20100222_114312_000000442087_00095_41732_6253.N1	22-FEB-2010 11:43:12	Dark	44.000	10	Bet Cen	0.61000	28000.	88	41732	No
2	GOM_NL__2PRFIN20100222_114808_000000502087_00095_41732_6254.N1	22-FEB-2010 11:48:08	Dark	50.000	64	Gam Cen	2.2000	10600.	100	41732	No
3	GOM_NL__2PRFIN20100222_115142_000000452087_00095_41732_6255.N1	22-FEB-2010 11:51:42	Straylight	44.500	113	Mu Vel	2.6920	5000.0	89	41732	No
4	GOM_NL__2PRFIN20100222_120443_000000492087_00095_41732_6256.N1	22-FEB-2010 12:04:43	Twilight	48.500	48	30Alp Hya	1.9770	4100.0	97	41732	No
5	GOM_NL__2PRFIN20100222_121444_000000412087_00095_41732_6257.N1	22-FEB-2010 12:14:44	Bright	40.500	166	17Eps Leo	2.9800	6000.0	81	41732	No
6	GOM_NL__2PRFIN20100222_122723_000000422087_00095_41732_6258.N1	22-FEB-2010 12:27:23	Bright	42.000	36	50Alp UMa	1.8000	6300.0	84	41732	No
7	GOM_NL__2PRFIN20100222_123422_000000372087_00095_41732_6259.N1	22-FEB-2010 12:34:22	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	41732	No
8	GOM_NL__2PRFIN20100222_124346_000000432087_00095_41732_6260.N1	22-FEB-2010 12:43:46	Bright	42.500	69	33Gam Dra	2.2310	3800.0	85	41732	No
9	GOM_NL__2PRFIN20100222_124754_000000472087_00095_41732_6261.N1	22-FEB-2010 12:47:54	Bright	46.500	5	3Alp Lyr	0.033000	11000.	93	41732	No
10	GOM_NL__2PRFIN20100222_125507_000000362087_00095_41732_6262.N1	22-FEB-2010 12:55:07	Bright	35.500	168	17Zet Aql	2.9860	11000.	71	41732	No
11	GOM_NL__2PRFIN20100222_131154_000000462087_00095_41732_6263.N1	22-FEB-2010 13:11:54	Dark	45.500	25	35Lam Sco	1.6200	28000.	91	41732	No
12	GOM_NL__2PRFIN20100222_131333_000000512087_00095_41732_6264.N1	22-FEB-2010 13:13:33	Dark	50.500	75	26Eps Sco	2.2910	4250.0	101	41732	No
13	GOM_NL__2PRFIN20100222_132349_000000472087_00096_41733_6261.N1	22-FEB-2010 13:23:49	Dark	47.000	10	Bet Cen	0.61000	28000.	94	41733	No
14	GOM_NL__2PRFIN20100222_132844_000000462087_00096_41733_6262.N1	22-FEB-2010 13:28:44	Dark	45.500	64	Gam Cen	2.2000	10600.	91	41733	No
15	GOM_NL__2PRFIN20100222_133218_000000422087_00096_41733_6263.N1	22-FEB-2010 13:32:18	Straylight	41.500	113	Mu Vel	2.6920	5000.0	83	41733	No
16	GOM_NL__2PRFIN20100222_134518_000000462087_00096_41733_6264.N1	22-FEB-2010 13:45:18	Twilight	46.000	48	30Alp Hya	1.9770	4100.0	92	41733	No
17	GOM_NL__2PRFIN20100222_135520_000000412087_00096_41733_6265.N1	22-FEB-2010 13:55:20	Bright	41.000	166	17Eps Leo	2.9800	6000.0	82	41733	No
18	GOM_NL__2PRFIN20100222_140758_000000422087_00096_41733_6266.N1	22-FEB-2010 14:07:58	Bright	41.500	36	50Alp UMa	1.8000	6300.0	83	41733	No
19	GOM_NL__2PRFIN20100222_141458_000000372087_00096_41733_6267.N1	22-FEB-2010 14:14:58	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	41733	No
20	GOM_NL__2PRFIN20100222_142423_000000442087_00096_41733_6268.N1	22-FEB-2010 14:24:23	Bright	44.000	69	33Gam Dra	2.2310	3800.0	88	41733	No
21	GOM_NL__2PRFIN20100222_142830_000000392087_00096_41733_6269.N1	22-FEB-2010 14:28:30	Bright	38.500	5	3Alp Lyr	0.033000	11000.	77	41733	No
22	GOM_NL__2PRFIN20100222_143543_000000372087_00096_41733_6270.N1	22-FEB-2010 14:35:43	Bright	37.000	168	17Zet Aql	2.9860	11000.	74	41733	No
23	GOM_NL__2PRFIN20100222_145231_000000422087_00096_41733_6271.N1	22-FEB-2010 14:52:31	Dark	41.500	25	35Lam Sco	1.6200	28000.	83	41733	No
24	GOM_NL__2PRFIN20100222_145410_000000482087_00096_41733_6272.N1	22-FEB-2010 14:54:10	Dark	48.000	75	26Eps Sco	2.2910	4250.0	96	41733	No
25	GOM_NL__2PRFIN20100222_150425_000000412087_00097_41734_6269.N1	22-FEB-2010 15:04:25	Dark	40.500	10	Bet Cen	0.61000	28000.	81	41734	No
26	GOM_NL__2PRFIN20100222_150921_000000432087_00097_41734_6270.N1	22-FEB-2010 15:09:21	Dark	43.000	64	Gam Cen	2.2000	10600.	86	41734	No
27	GOM_NL__2PRFIN20100222_151255_000000452087_00097_41734_6271.N1	22-FEB-2010 15:12:55	Straylight	44.500	113	Mu Vel	2.6920	5000.0	89	41734	No
28	GOM_NL__2PRFIN20100222_152554_000000482087_00097_41734_6272.N1	22-FEB-2010 15:25:54	Twilight	48.000	48	30Alp Hya	1.9770	4100.0	96	41734	No
29	GOM_NL__2PRFIN20100222_153555_000000422087_00097_41734_6273.N1	22-FEB-2010 15:35:55	Bright	42.000	166	17Eps Leo	2.9800	6000.0	84	41734	No
30	GOM_NL__2PRFIN20100222_154834_000000442087_00097_41734_6274.N1	22-FEB-2010 15:48:34	Bright	43.500	36	50Alp UMa	1.8000	6300.0	87	41734	No
31	GOM_NL__2PRFIN20100222_155533_000000412087_00097_41734_6275.N1	22-FEB-2010 15:55:33	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	41734	No
32	GOM_NL__2PRFIN20100222_160459_000000412087_00097_41734_6276.N1	22-FEB-2010 16:04:59	Bright	40.500	69	33Gam Dra	2.2310	3800.0	81	41734	No
33	GOM_NL__2PRFIN20100222_160906_000000432087_00097_41734_6277.N1	22-FEB-2010 16:09:06	Bright	43.000	5	3Alp Lyr	0.033000	11000.	86	41734	No
34	GOM_NL__2PRFIN20100222_161619_000000552087_00097_41734_6278.N1	22-FEB-2010 16:16:19	Bright	55.000	168	17Zet Aql	2.9860	11000.	110	41734	No
35	GOM_NL__2PRFIN20100222_163308_000000512087_00097_41734_6279.N1	22-FEB-2010 16:33:08	Dark	50.500	25	35Lam Sco	1.6200	28000.	101	41734	No
36	GOM_NL__2PRFIN20100222_163447_000000532087_00097_41734_6280.N1	22-FEB-2010 16:34:47	Dark	52.500	75	26Eps Sco	2.2910	4250.0	105	41734	No
37	GOM_NL__2PRFIN20100222_164502_000000522087_00098_41735_6277.N1	22-FEB-2010 16:45:02	Dark	52.000	10	Bet Cen	0.61000	28000.	104	41735	No
38	GOM_NL__2PRFIN20100222_164958_000000462087_00098_41735_6278.N1	22-FEB-2010 16:49:58	Dark	46.000	64	Gam Cen	2.2000	10600.	92	41735	No
39	GOM_NL__2PRFIN20100222_165331_000000432087_00098_41735_6279.N1	22-FEB-2010 16:53:31	Straylight	43.000	113	Mu Vel	2.6920	5000.0	86	41735	No
40	GOM_NL__2PRFIN20100222_170631_000000452087_00098_41735_6280.N1	22-FEB-2010 17:06:31	Twilight	45.000	48	30Alp Hya	1.9770	4100.0	90	41735	No
41	GOM_NL__2PRFIN20100222_171631_000000412087_00098_41735_6281.N1	22-FEB-2010 17:16:31	Bright	41.000	166	17Eps Leo	2.9800	6000.0	82	41735	No
42	GOM_NL__2PRFIN20100222_172909_000000422087_00098_41735_6282.N1	22-FEB-2010 17:29:09	Bright	41.500	36	50Alp UMa	1.8000	6300.0	83	41735	No

43	GOM_NL__2PRFIN20100222_173609_000000412087_00098_41735_6283.N1	22-FEB-2010 17:36:09	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	41735	No
44	GOM_NL__2PRFIN20100222_174534_000000432087_00098_41735_6284.N1	22-FEB-2010 17:45:34	Bright	42.500	69	33Gam Dra	2.2310	3800.0	85	41735	No
45	GOM_NL__2PRFIN20100222_174942_000000372087_00098_41735_6285.N1	22-FEB-2010 17:49:42	Bright	37.000	5	3Alp Lyr	0.033000	11000.	74	41735	No
46	GOM_NL__2PRFIN20100222_175655_000000552087_00098_41735_6286.N1	22-FEB-2010 17:56:55	Bright	55.000	168	17Zet Aql	2.9860	11000.	110	41735	No
47	GOM_NL__2PRFIN20100222_181345_000000462087_00098_41735_6287.N1	22-FEB-2010 18:13:45	Dark	46.000	25	35Lam Sco	1.6200	28000.	92	41735	No
48	GOM_NL__2PRFIN20100222_181524_000000482087_00098_41735_6288.N1	22-FEB-2010 18:15:24	Dark	48.000	75	26Eps Sco	2.2910	4250.0	96	41735	No
49	GOM_NL__2PRFIN20100222_182538_000000502087_00099_41736_6305.N1	22-FEB-2010 18:25:38	Dark	50.000	10	Bet Cen	0.61000	28000.	100	41736	No
50	GOM_NL__2PRFIN20100222_183034_000000452087_00099_41736_6306.N1	22-FEB-2010 18:30:34	Dark	44.500	64	Gam Cen	2.2000	10600.	89	41736	No
51	GOM_NL__2PRFIN20100222_183407_000000412087_00099_41736_6307.N1	22-FEB-2010 18:34:07	Straylight	41.000	113	Mu Vel	2.6920	5000.0	82	41736	No
52	GOM_NL__2PRFIN20100222_184707_000000442087_00099_41736_6308.N1	22-FEB-2010 18:47:07	Tw_i_and_stray	44.000	48	30Alp Hya	1.9770	4100.0	88	41736	No
53	GOM_NL__2PRFIN20100222_185707_000000432087_00099_41736_6309.N1	22-FEB-2010 18:57:07	Bright	43.000	166	17Eps Leo	2.9800	6000.0	86	41736	No
54	GOM_NL__2PRFIN20100222_190945_000000442087_00099_41736_6310.N1	22-FEB-2010 19:09:45	Bright	44.000	36	50Alp UMa	1.8000	6300.0	88	41736	No
55	GOM_NL__2PRFIN20100222_191645_000000412087_00099_41736_6311.N1	22-FEB-2010 19:16:45	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	41736	No
56	GOM_NL__2PRFIN20100222_192610_000000432087_00099_41736_6312.N1	22-FEB-2010 19:26:10	Bright	42.500	69	33Gam Dra	2.2310	3800.0	85	41736	No
57	GOM_NL__2PRFIN20100222_193018_000000372087_00099_41736_6313.N1	22-FEB-2010 19:30:18	Bright	37.000	5	3Alp Lyr	0.033000	11000.	74	41736	No
58	GOM_NL__2PRFIN20100222_193732_000000372087_00099_41736_6314.N1	22-FEB-2010 19:37:32	Bright	37.000	168	17Zet Aql	2.9860	11000.	74	41736	No
59	GOM_NL__2PRFIN20100222_195421_000000492087_00099_41736_6315.N1	22-FEB-2010 19:54:21	Dark	48.500	25	35Lam Sco	1.6200	28000.	97	41736	No
60	GOM_NL__2PRFIN20100222_195601_000000582087_00099_41736_6316.N1	22-FEB-2010 19:56:01	Dark	58.000	75	26Eps Sco	2.2910	4250.0	116	41736	No
61	GOM_NL__2PRFIN20100222_200615_000000422087_00100_41737_6313.N1	22-FEB-2010 20:06:15	Dark	42.000	10	Bet Cen	0.61000	28000.	84	41737	No
62	GOM_NL__2PRFIN20100222_201111_000000442087_00100_41737_6314.N1	22-FEB-2010 20:11:11	Dark	44.000	64	Gam Cen	2.2000	10600.	88	41737	No
63	GOM_NL__2PRFIN20100222_201444_000000462087_00100_41737_6315.N1	22-FEB-2010 20:14:44	Straylight	45.500	113	Mu Vel	2.6920	5000.0	91	41737	No
64	GOM_NL__2PRFIN20100222_202743_000000462087_00100_41737_6316.N1	22-FEB-2010 20:27:43	Tw_i_and_stray	46.000	48	30Alp Hya	1.9770	4100.0	92	41737	No
65	GOM_NL__2PRFIN20100222_203742_000000422087_00100_41737_6317.N1	22-FEB-2010 20:37:42	Bright	41.500	166	17Eps Leo	2.9800	6000.0	83	41737	No
66	GOM_NL__2PRFIN20100222_205020_000000422087_00100_41737_6318.N1	22-FEB-2010 20:50:20	Bright	42.000	36	50Alp UMa	1.8000	6300.0	84	41737	No
67	GOM_NL__2PRFIN20100222_205720_000000432087_00100_41737_6319.N1	22-FEB-2010 20:57:20	Bright	42.500	60	7Bet UMi	2.0810	3950.0	85	41737	No
68	GOM_NL__2PRFIN20100222_210646_000000442087_00100_41737_6320.N1	22-FEB-2010 21:06:46	Bright	43.500	69	33Gam Dra	2.2310	3800.0	87	41737	No
69	GOM_NL__2PRFIN20100222_211054_000000402087_00100_41737_6321.N1	22-FEB-2010 21:10:54	Bright	39.500	5	3Alp Lyr	0.033000	11000.	79	41737	No
70	GOM_NL__2PRFIN20100222_211808_000000372087_00100_41737_6322.N1	22-FEB-2010 21:18:08	Bright	37.000	168	17Zet Aql	2.9860	11000.	74	41737	No
71	GOM_NL__2PRFIN20100222_213458_000000452087_00100_41737_6323.N1	22-FEB-2010 21:34:58	Dark	45.000	25	35Lam Sco	1.6200	28000.	90	41737	No
72	GOM_NL__2PRFIN20100222_213638_000000552087_00100_41737_6324.N1	22-FEB-2010 21:36:38	Dark	55.000	75	26Eps Sco	2.2910	4250.0	110	41737	No
73	GOM_NL__2PRFIN20100222_214651_000000432087_00101_41738_6321.N1	22-FEB-2010 21:46:51	Dark	43.000	10	Bet Cen	0.61000	28000.	86	41738	No
74	GOM_NL__2PRFIN20100222_215147_000000482087_00101_41738_6322.N1	22-FEB-2010 21:51:47	Dark	48.000	64	Gam Cen	2.2000	10600.	96	41738	No
75	GOM_NL__2PRFIN20100222_215520_000000452087_00101_41738_6323.N1	22-FEB-2010 21:55:20	Straylight	44.500	113	Mu Vel	2.6920	5000.0	89	41738	No
76	GOM_NL__2PRFIN20100222_220819_000000502087_00101_41738_6324.N1	22-FEB-2010 22:08:19	Tw_i_and_stray	49.500	48	30Alp Hya	1.9770	4100.0	99	41738	No
77	GOM_NL__2PRFIN20100222_221818_000000412087_00101_41738_6325.N1	22-FEB-2010 22:18:18	Bright	41.000	166	17Eps Leo	2.9800	6000.0	82	41738	No
78	GOM_NL__2PRFIN20100222_223055_000000422087_00101_41738_6326.N1	22-FEB-2010 22:30:55	Bright	41.500	36	50Alp UMa	1.8000	6300.0	83	41738	No
79	GOM_NL__2PRFIN20100222_223756_000000392087_00101_41738_6327.N1	22-FEB-2010 22:37:56	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	41738	No
80	GOM_NL__2PRFIN20100222_224721_000000452087_00101_41738_6328.N1	22-FEB-2010 22:47:21	Bright	44.500	69	33Gam Dra	2.2310	3800.0	89	41738	No
81	GOM_NL__2PRFIN20100222_225130_000000382087_00101_41738_6329.N1	22-FEB-2010 22:51:30	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	41738	No
82	GOM_NL__2PRFIN20100222_225844_000000382087_00101_41738_6330.N1	22-FEB-2010 22:58:44	Bright	37.500	168	17Zet Aql	2.9860	11000.	75	41738	No
83	GOM_NL__2PRFIN20100222_231534_000000432087_00101_41738_6331.N1	22-FEB-2010 23:15:34	Dark	43.000	25	35Lam Sco	1.6200	28000.	86	41738	No
84	GOM_NL__2PRFIN20100222_231715_000000572087_00101_41738_6332.N1	22-FEB-2010 23:17:15	Dark	57.000	75	26Eps Sco	2.2910	4250.0	114	41738	No
85	GOM_NL__2PRFIN20100222_232728_000000462087_00102_41739_6329.N1	22-FEB-2010 23:27:28	Dark	46.000	10	Bet Cen	0.61000	28000.	92	41739	No
86	GOM_NL__2PRFIN20100222_233224_000000502087_00102_41739_6330.N1	22-FEB-2010 23:32:24	Dark	50.000	64	Gam Cen	2.2000	10600.	100	41739	No
87	GOM_NL__2PRFIN20100222_233557_000000442087_00102_41739_6331.N1	22-FEB-2010 23:35:57	Straylight	44.000	113	Mu Vel	2.6920	5000.0	88	41739	No
88	GOM_NL__2PRFIN20100222_234855_000000472087_00102_41739_6332.N1	22-FEB-2010 23:48:55	Tw_i_and_stray	47.000	48	30Alp Hya	1.9770	4100.0	94	41739	No
89	GOM_NL__2PRFIN20100222_235853_000000422087_00102_41739_6333.N1	22-FEB-2010 23:58:53	Bright	41.500	166	17Eps Leo	2.9800	6000.0	83	41739	No

### 3. Quality information per product

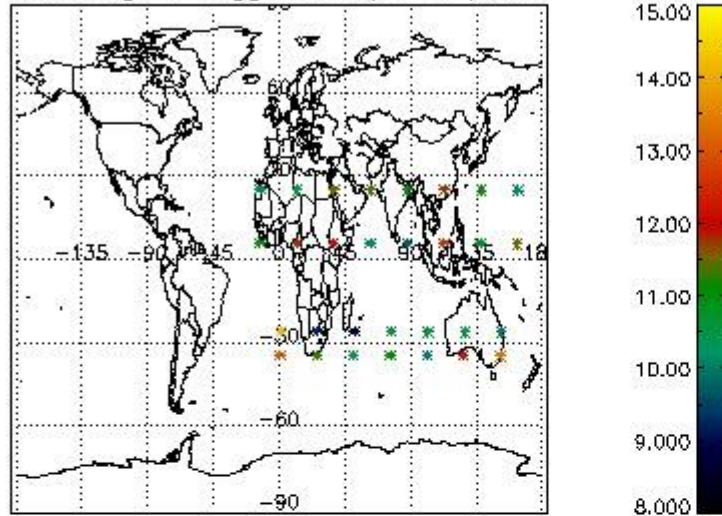
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

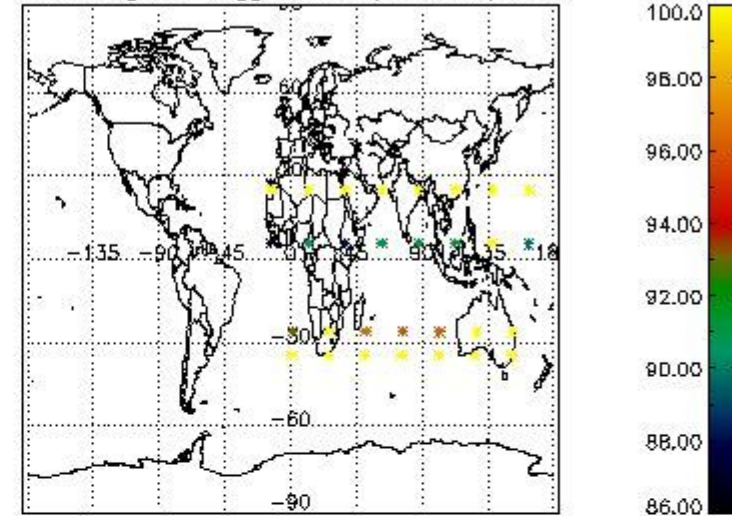


3.2 Plot quality information per product (world map)

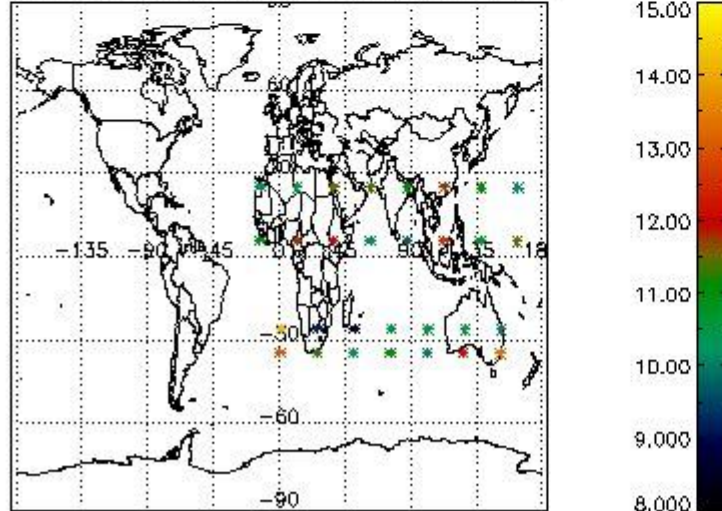
Percentage of flagged data per O3 profile



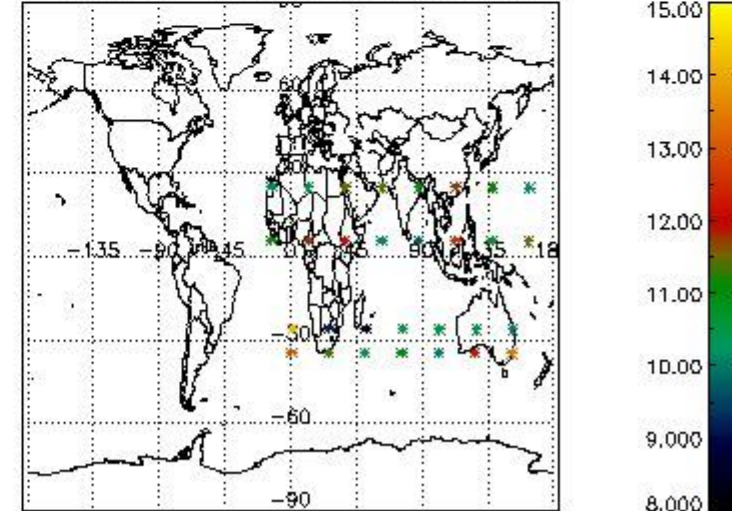
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

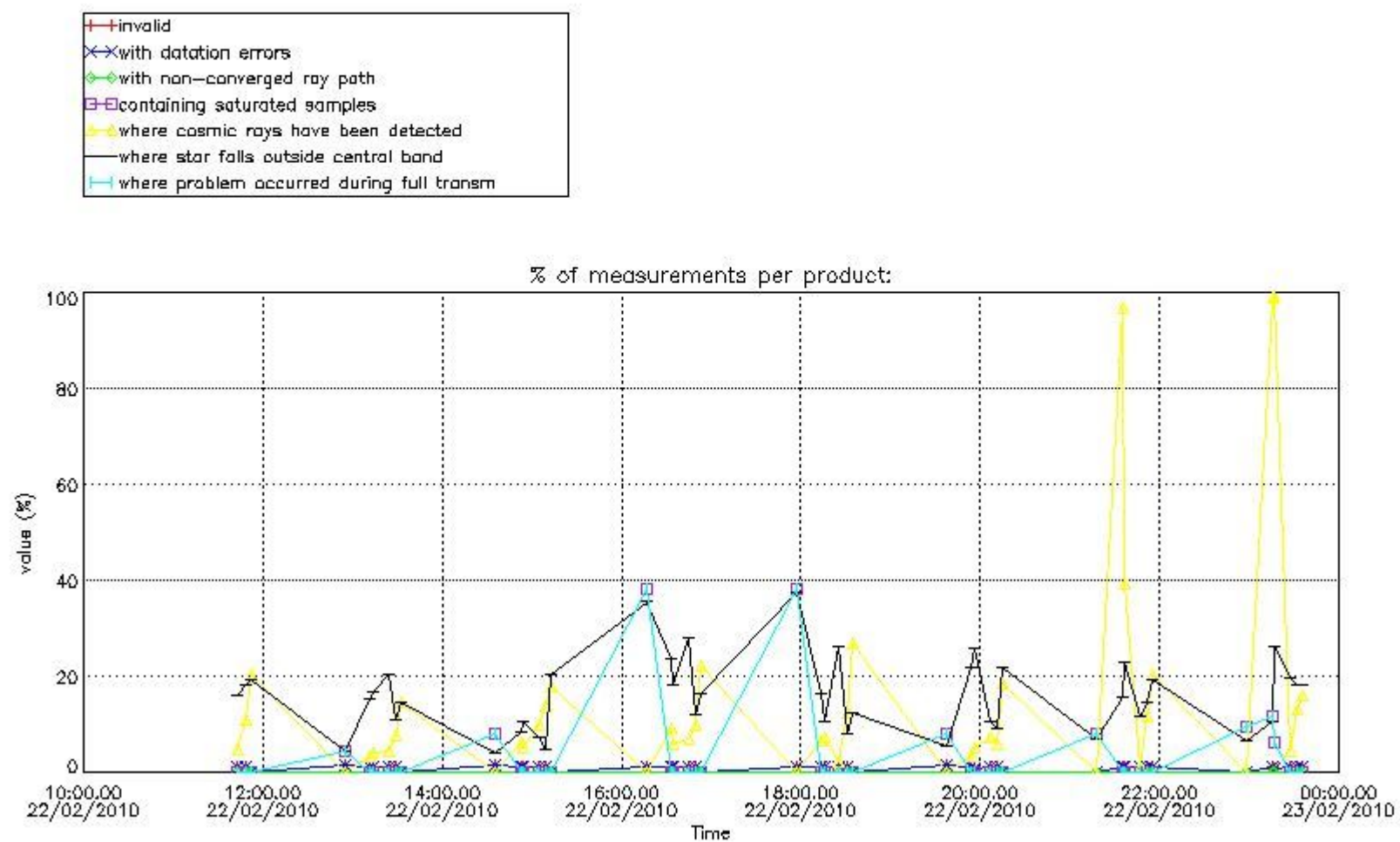


#### 4. Level 1 quality information per product

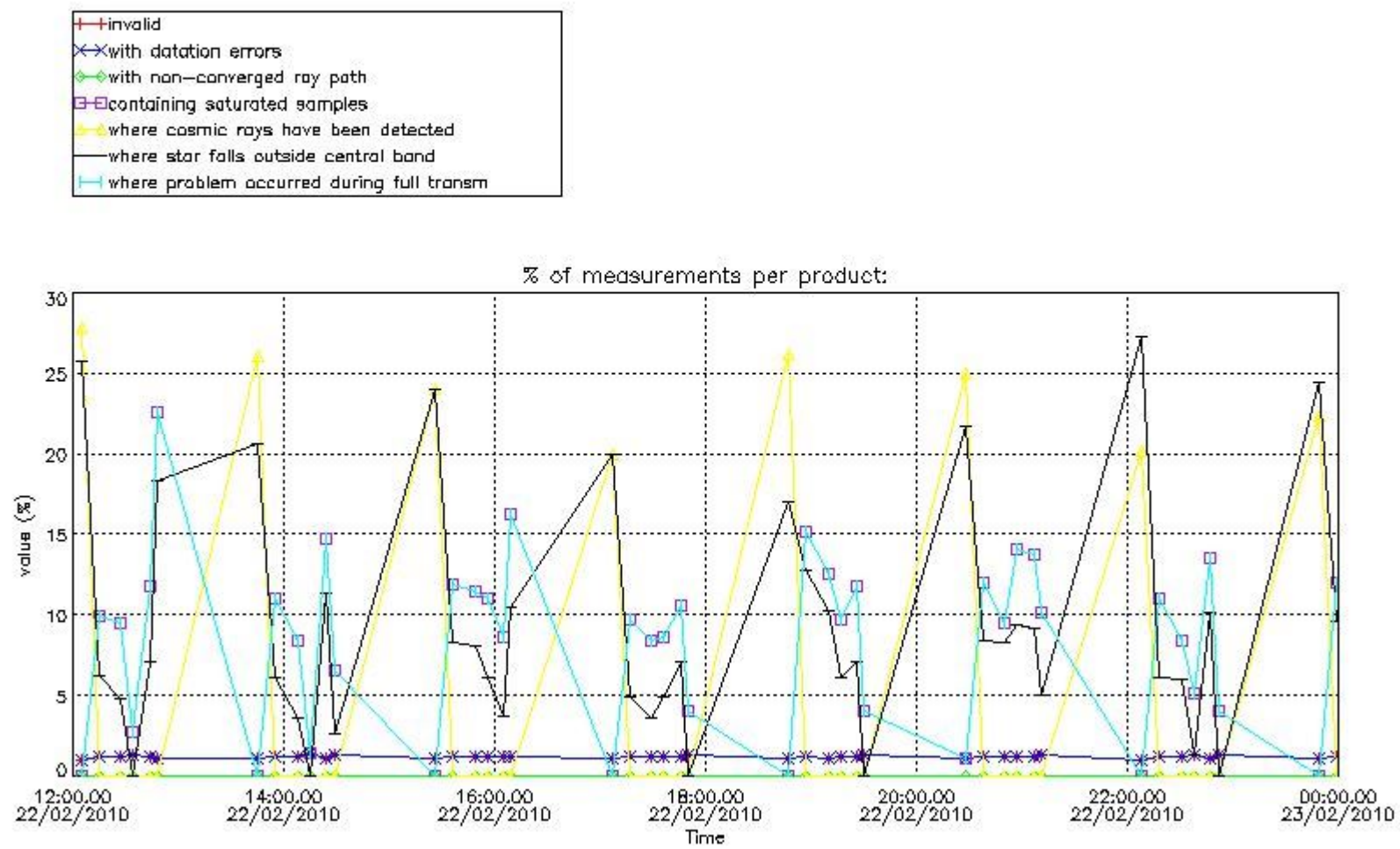
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



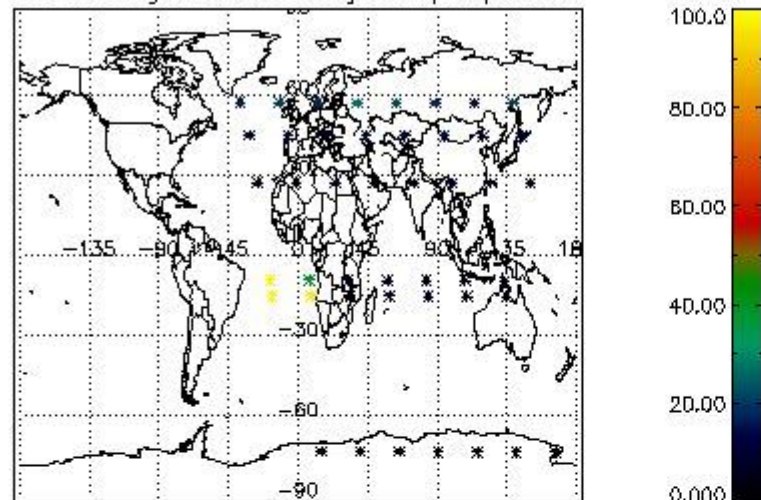
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



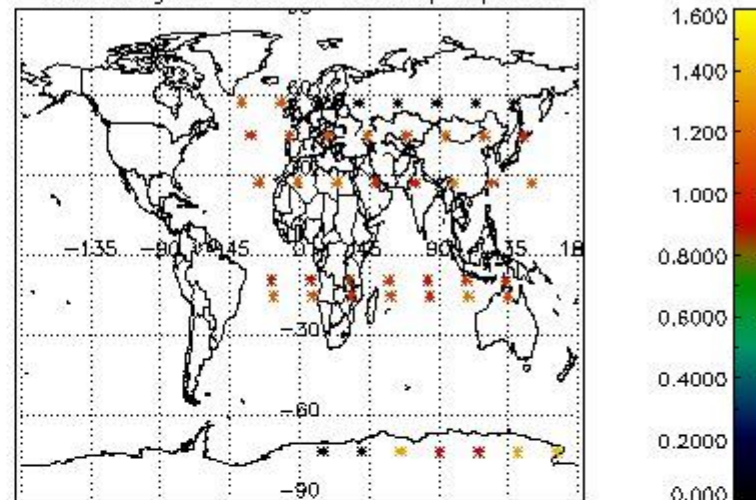
4.2 Plot quality information per product coming from level 1b processing (world map)

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

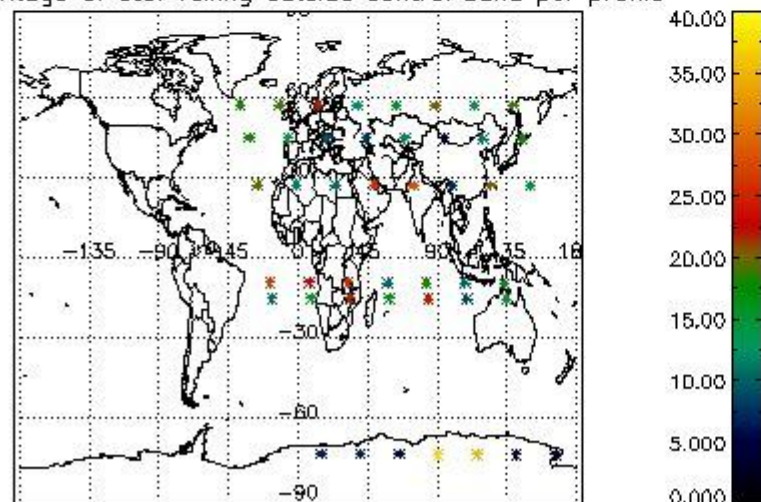
Percentage of cosmic ray hits per profile



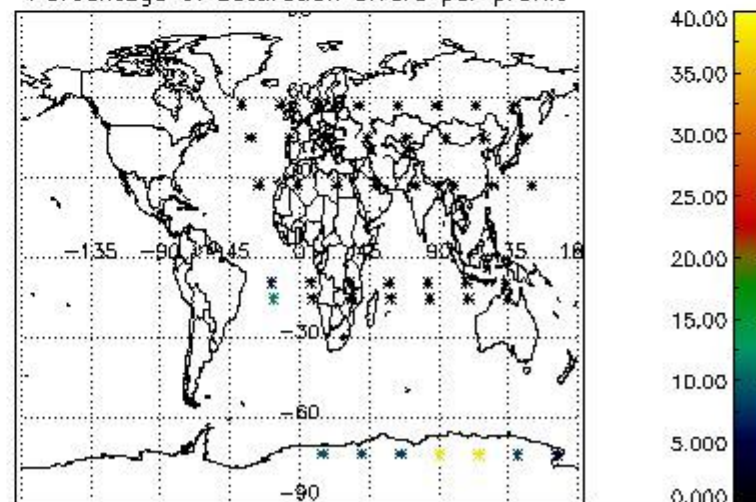
Percentage of datation errors per profile



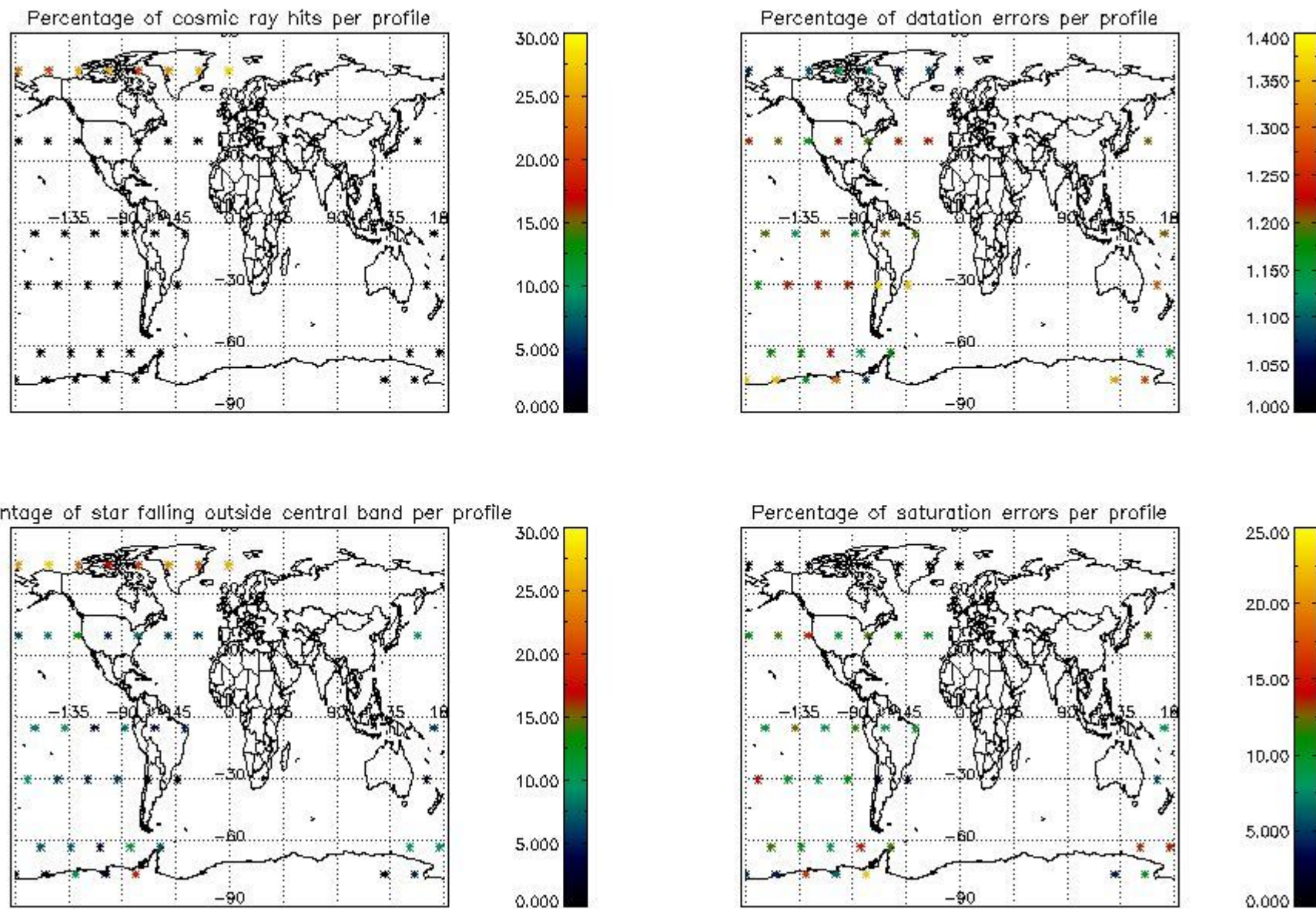
Percentage of star falling outside central band per profile



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.

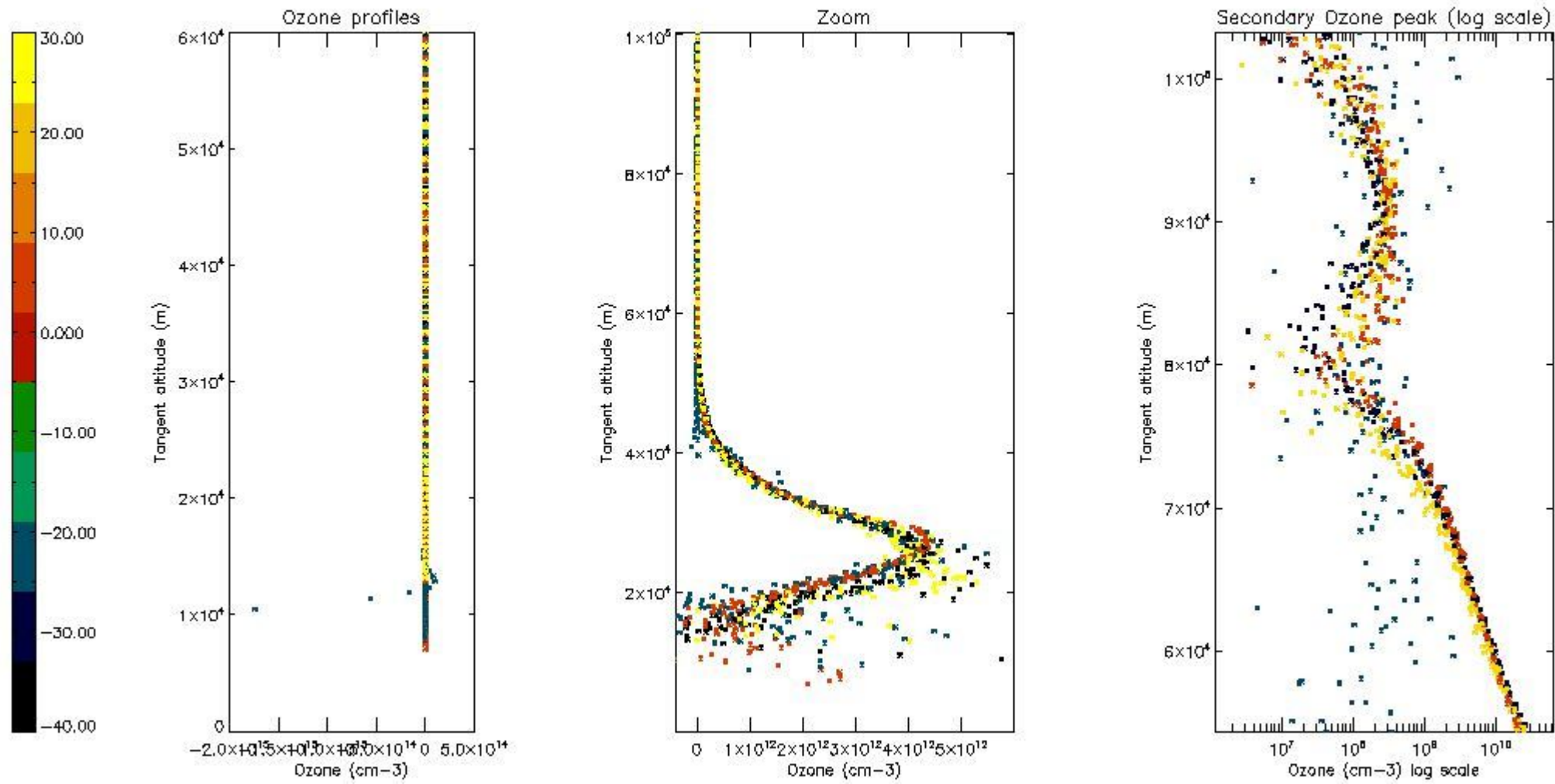
Criteria	% of total production
All STD	37
STD < 20	20



STD < 10	17
STD < 5	11

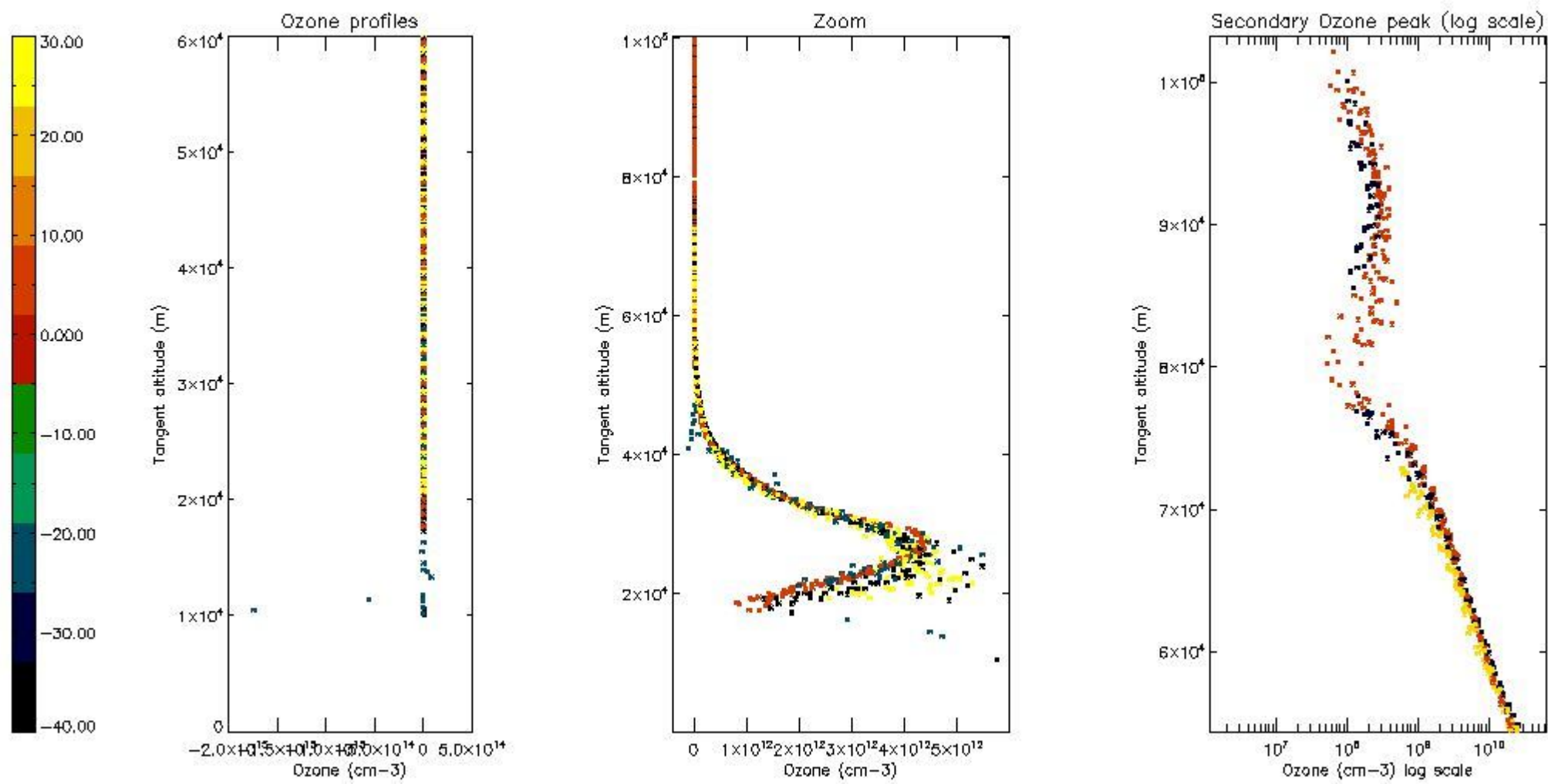
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



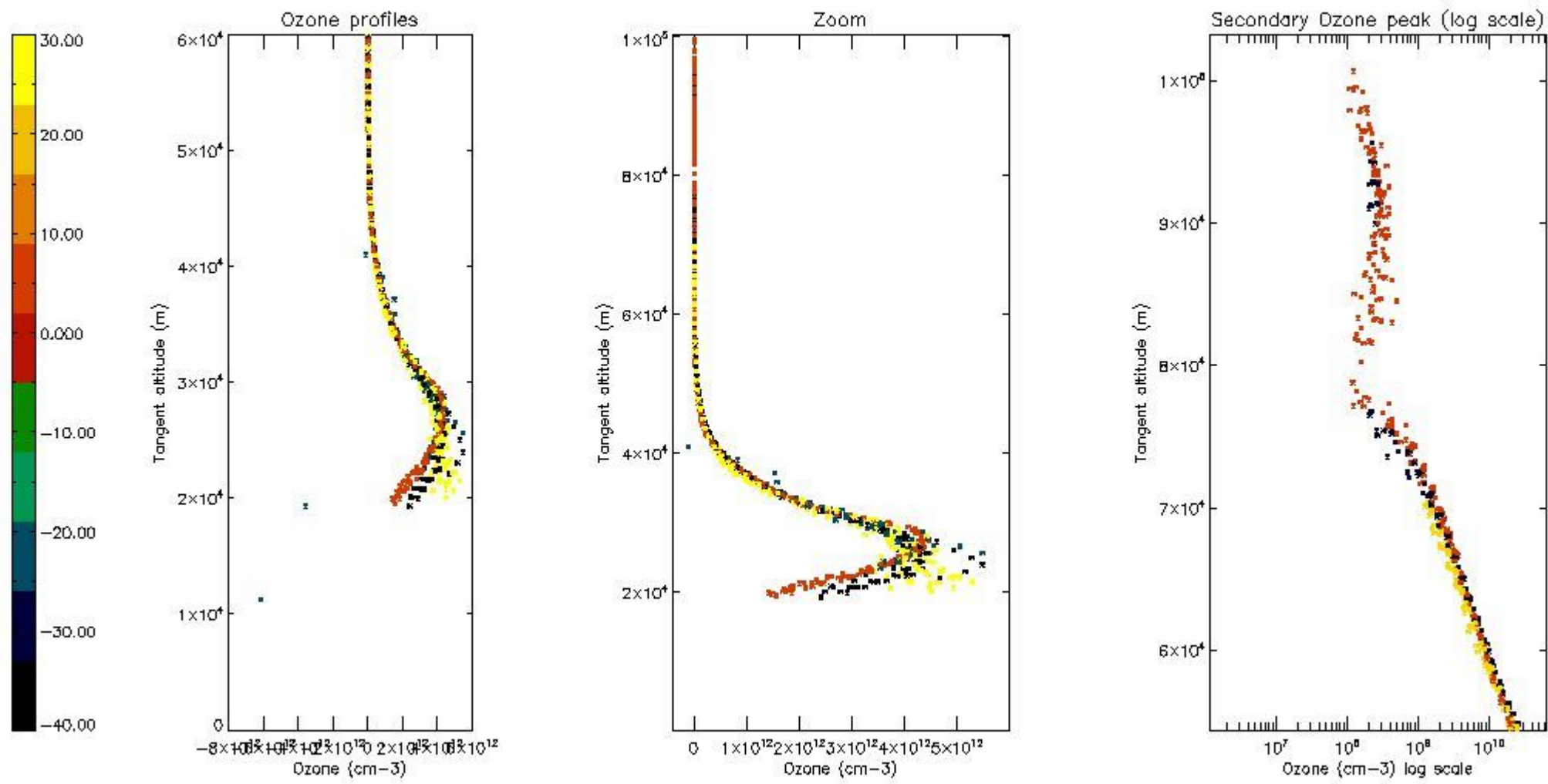
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



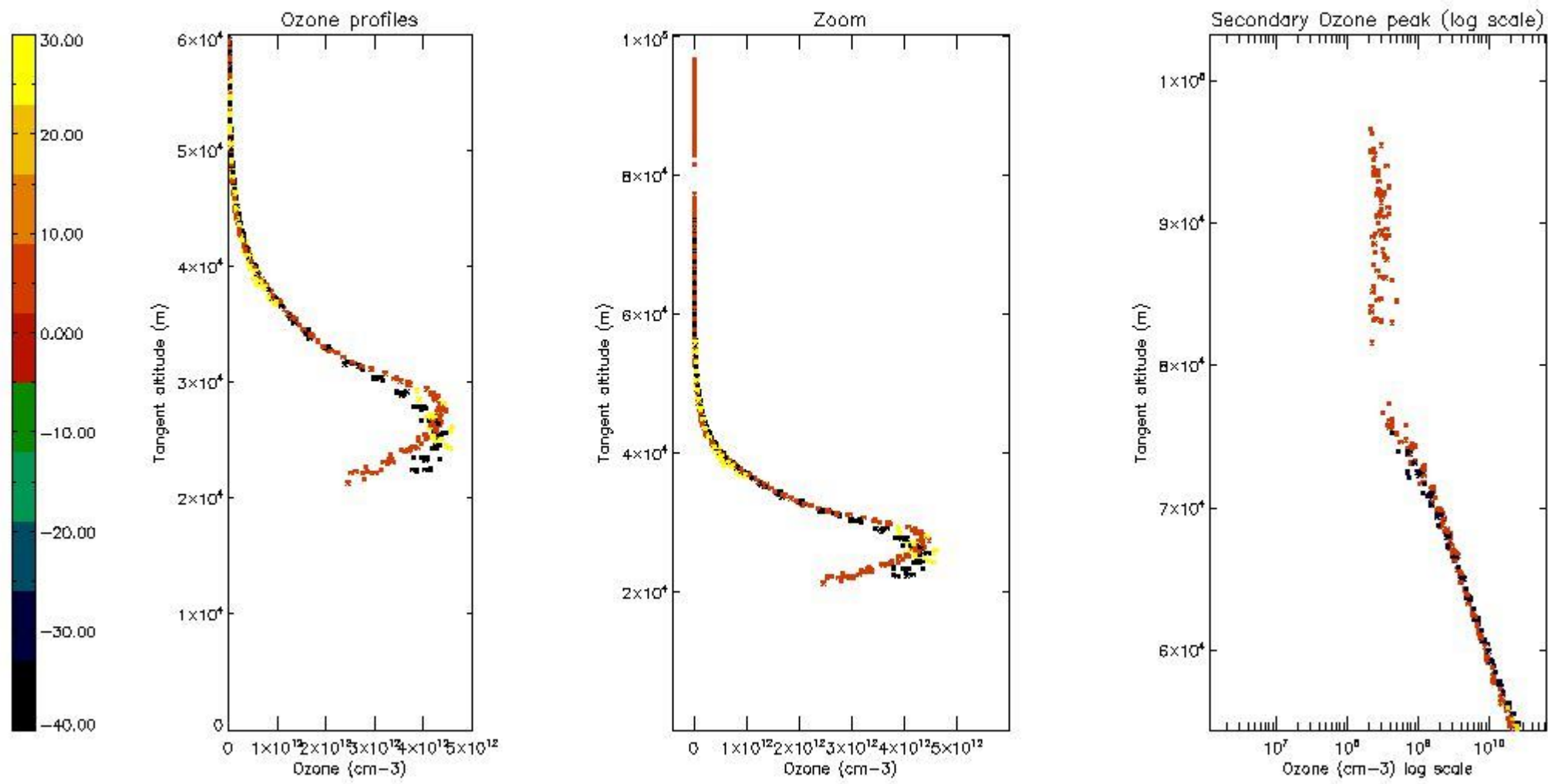
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



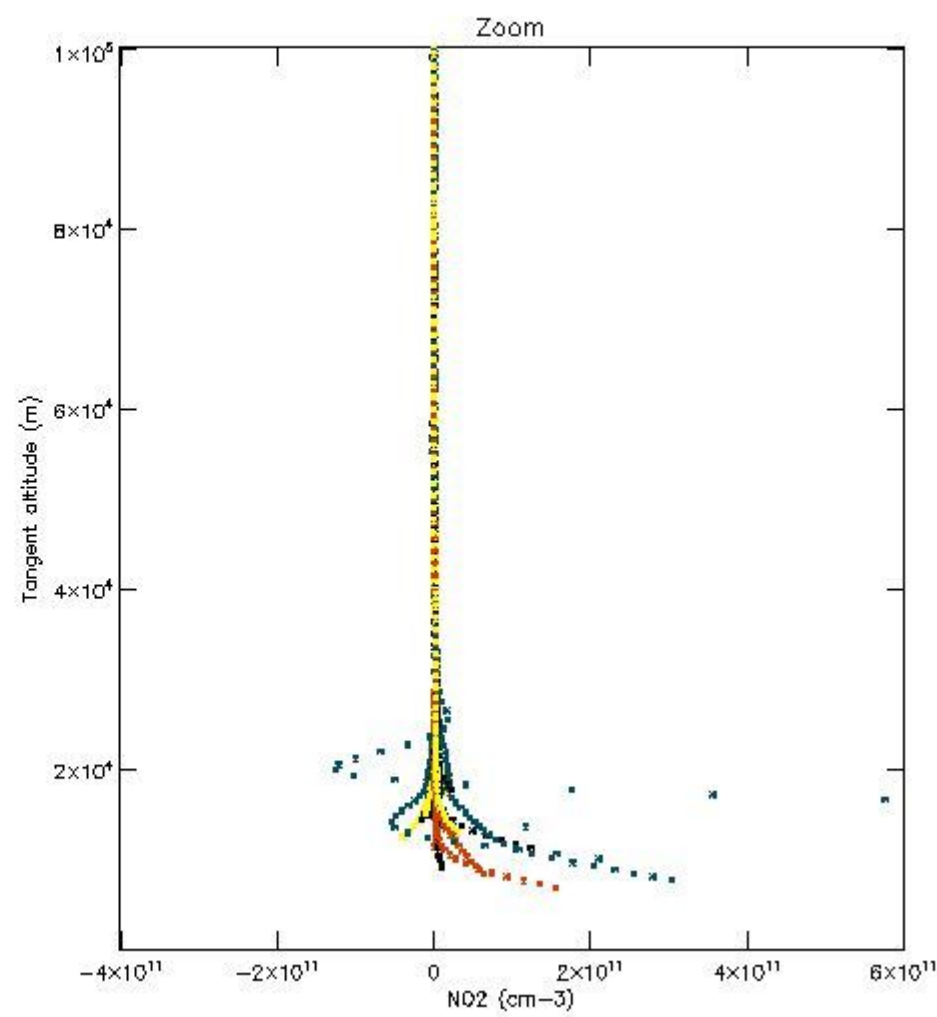
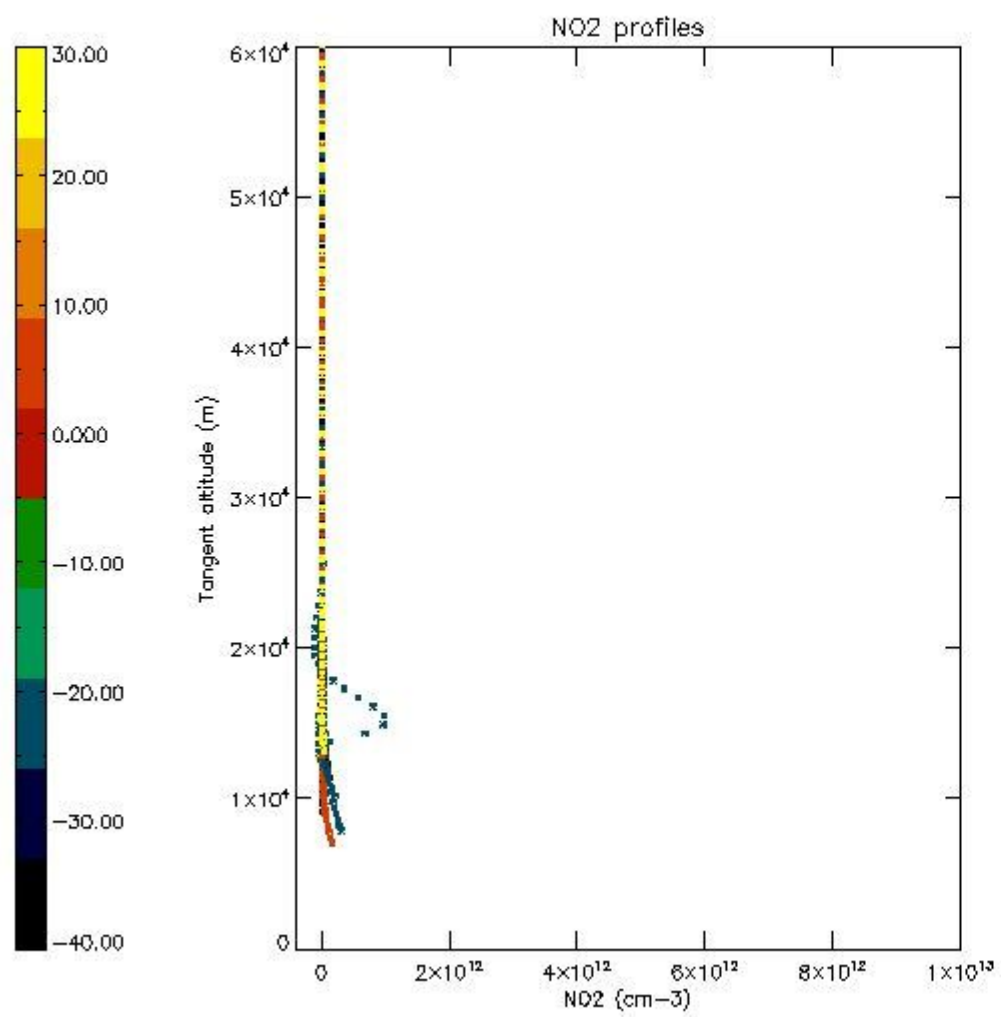
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



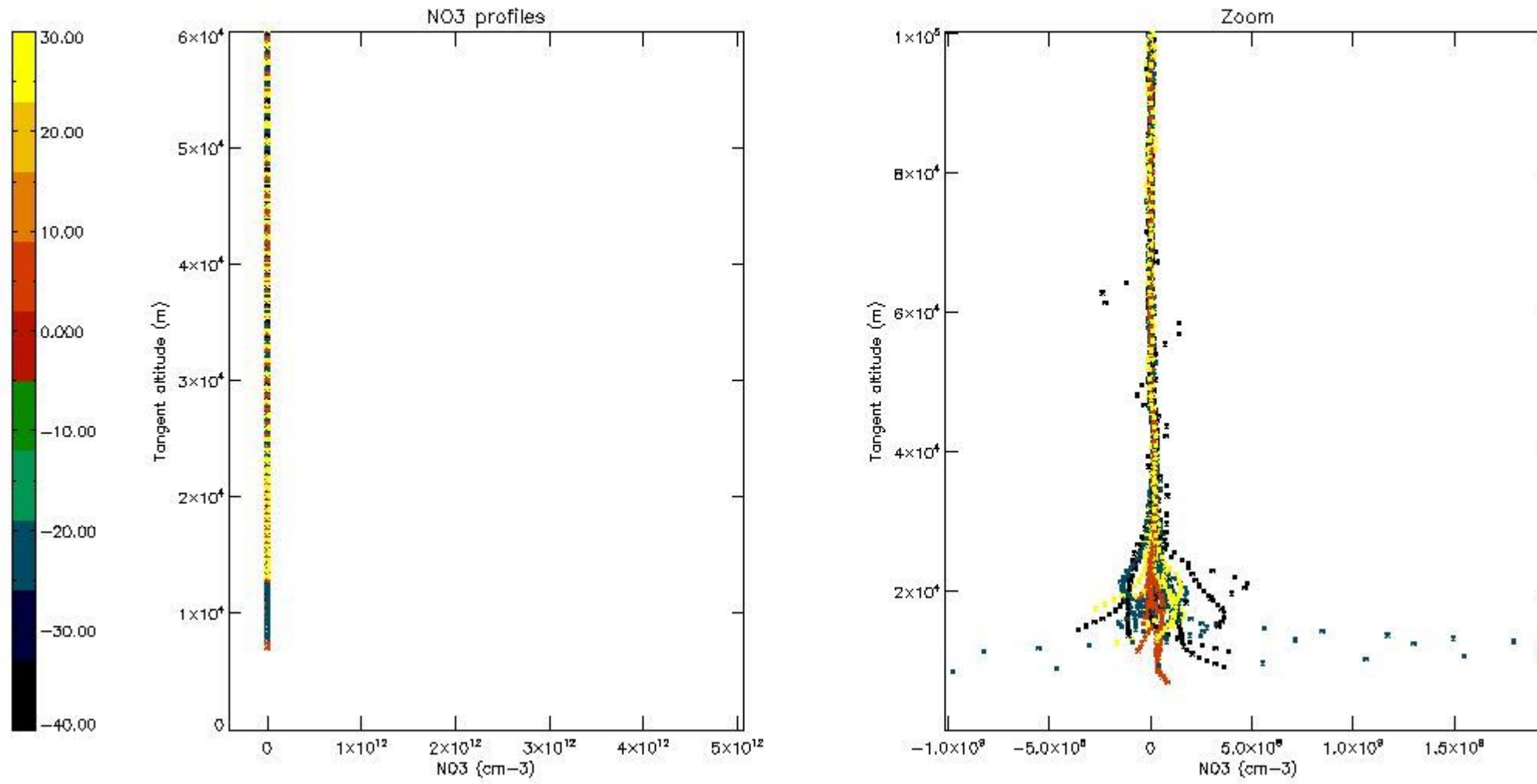
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

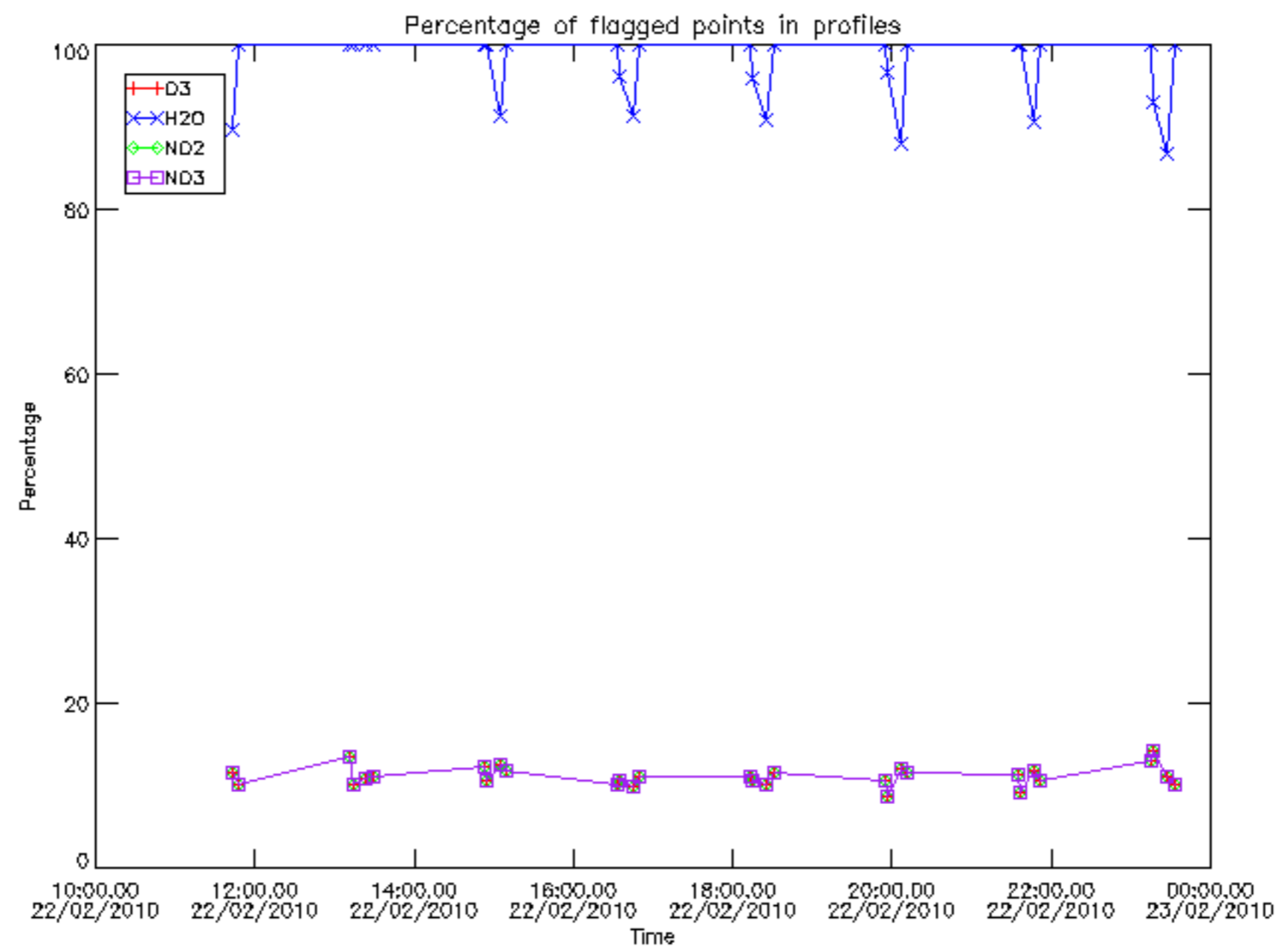
The colorbar represents the latitude.



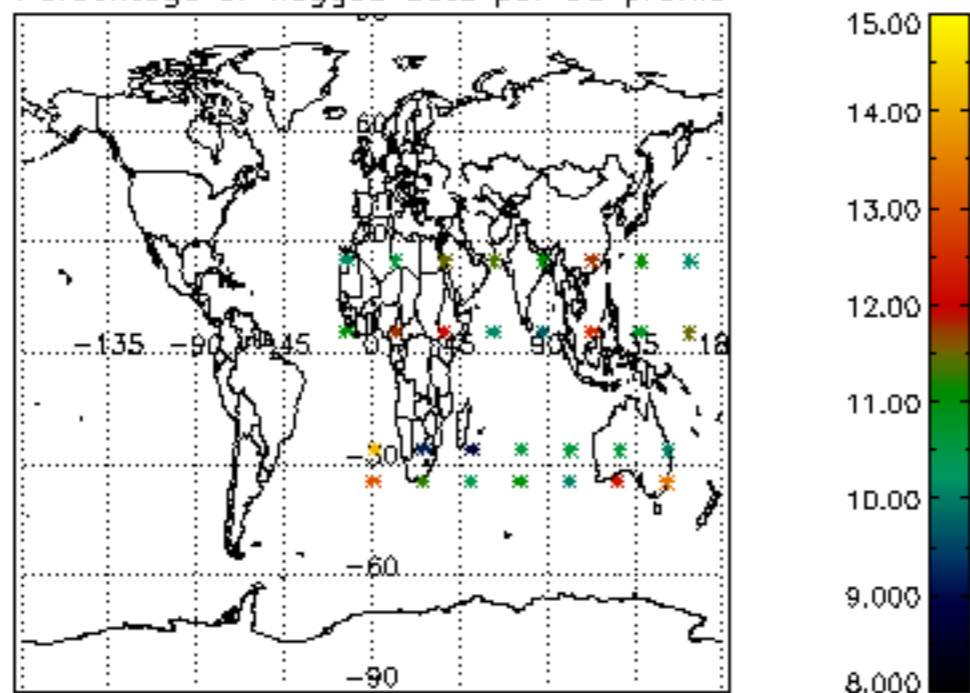
## 6. Auxiliary Data Files used for the production reported in section 2

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.

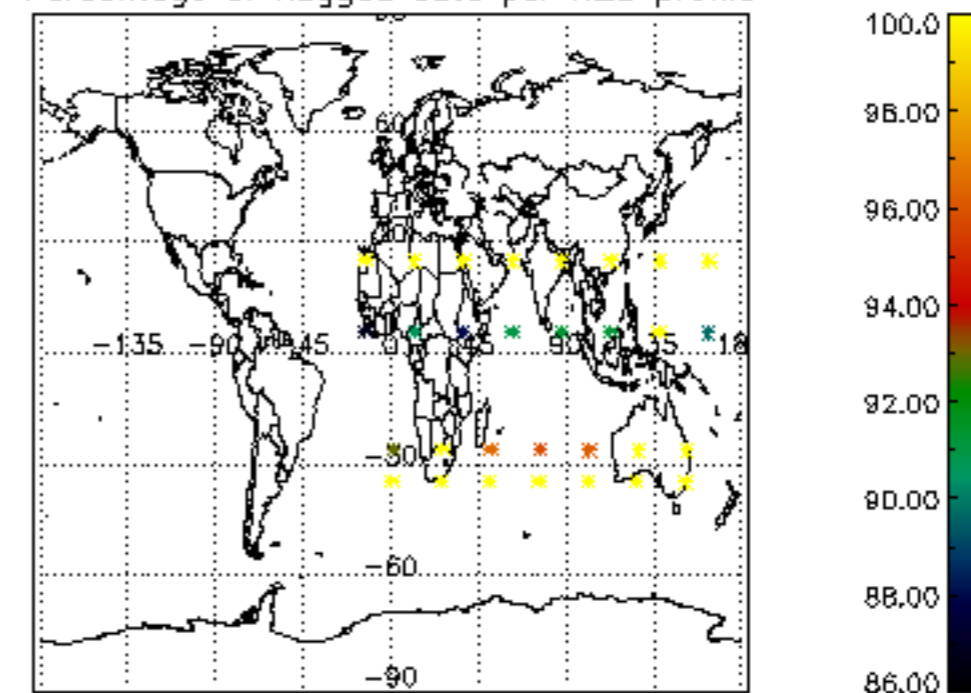
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	22-FEB-2010 11:43:12
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	22-FEB-2010 11:43:12
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	22-FEB-2010 11:43:12



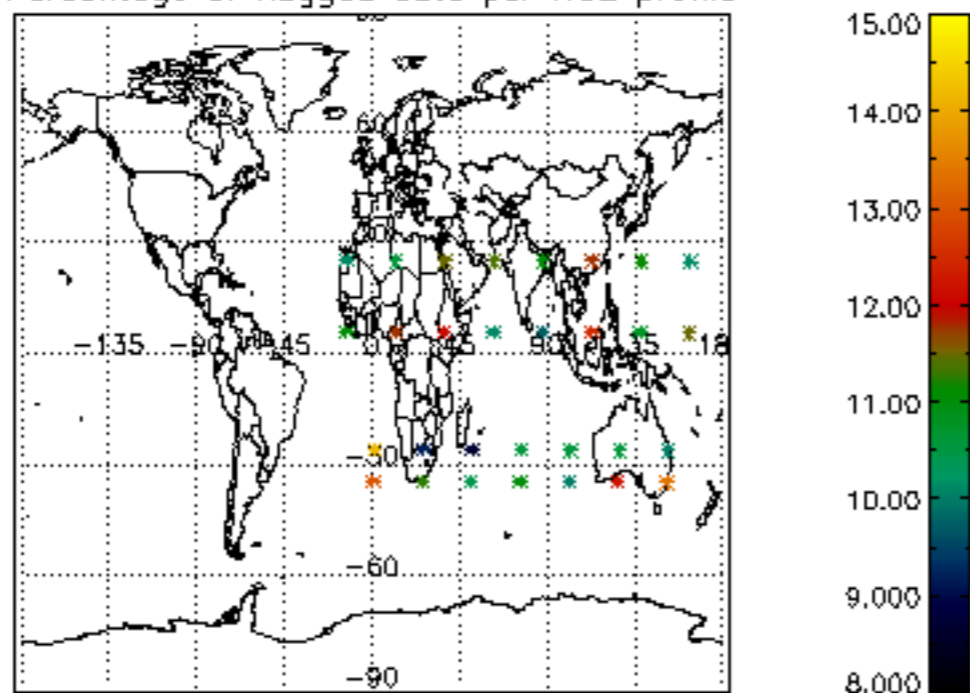
Percentage of flagged data per D3 profile



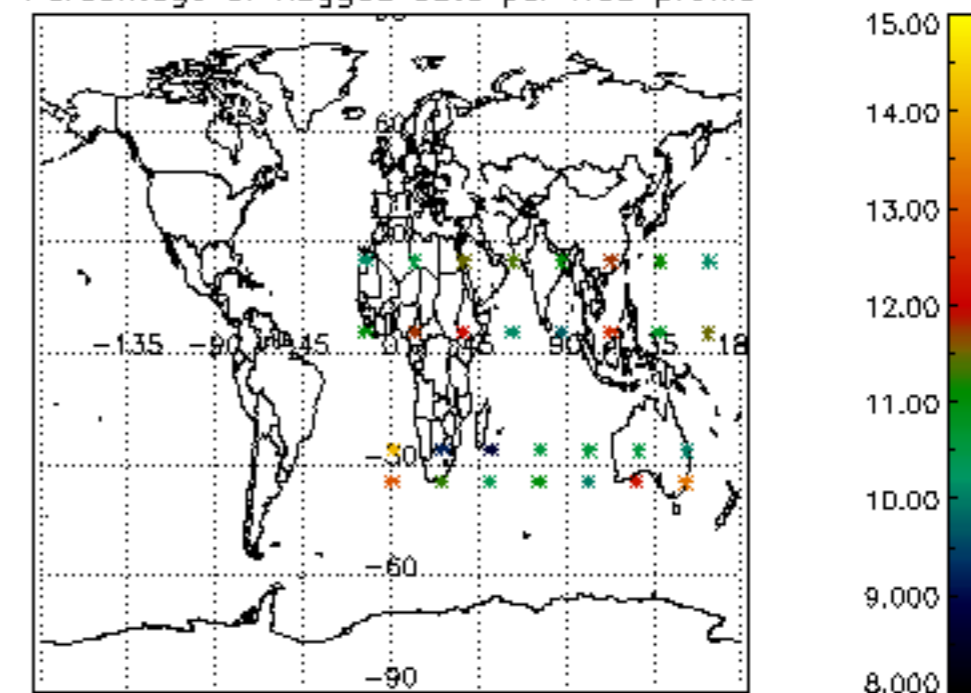
Percentage of flagged data per H2O profile



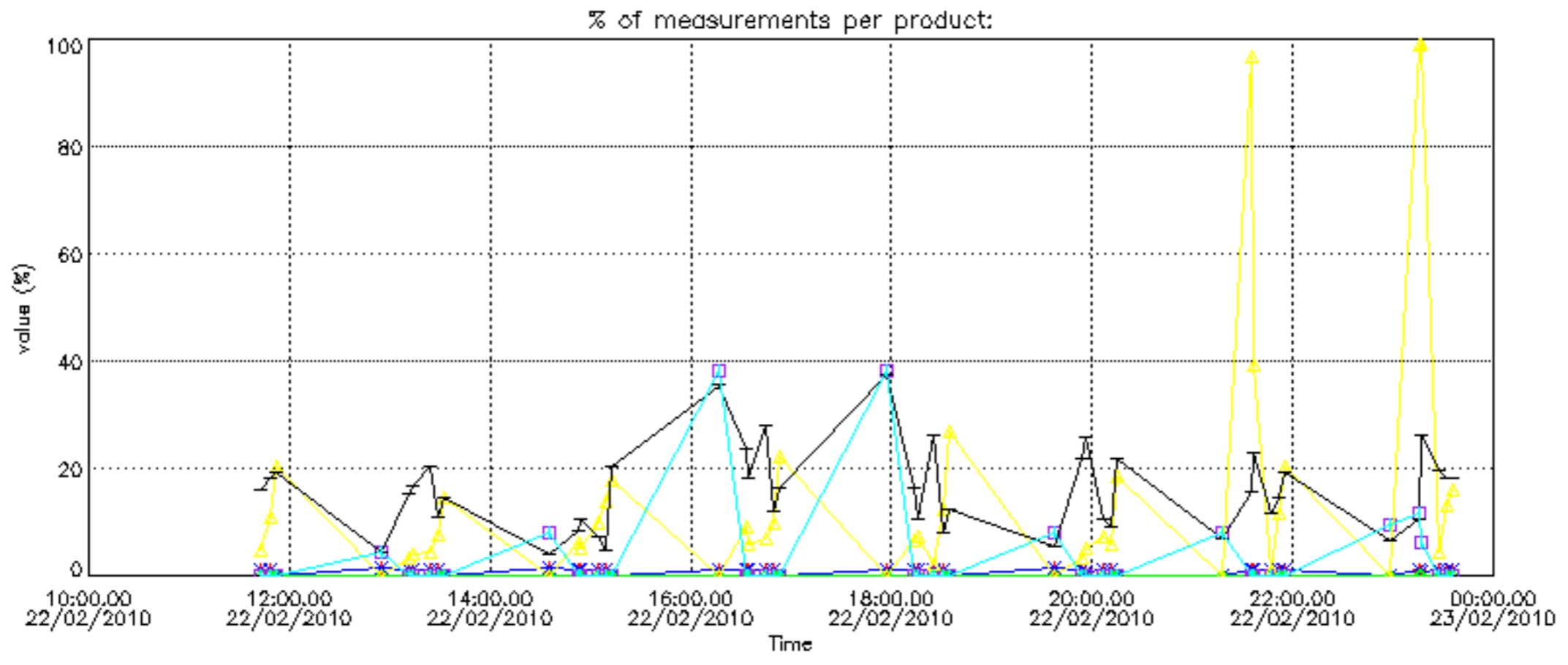
Percentage of flagged data per NO2 profile

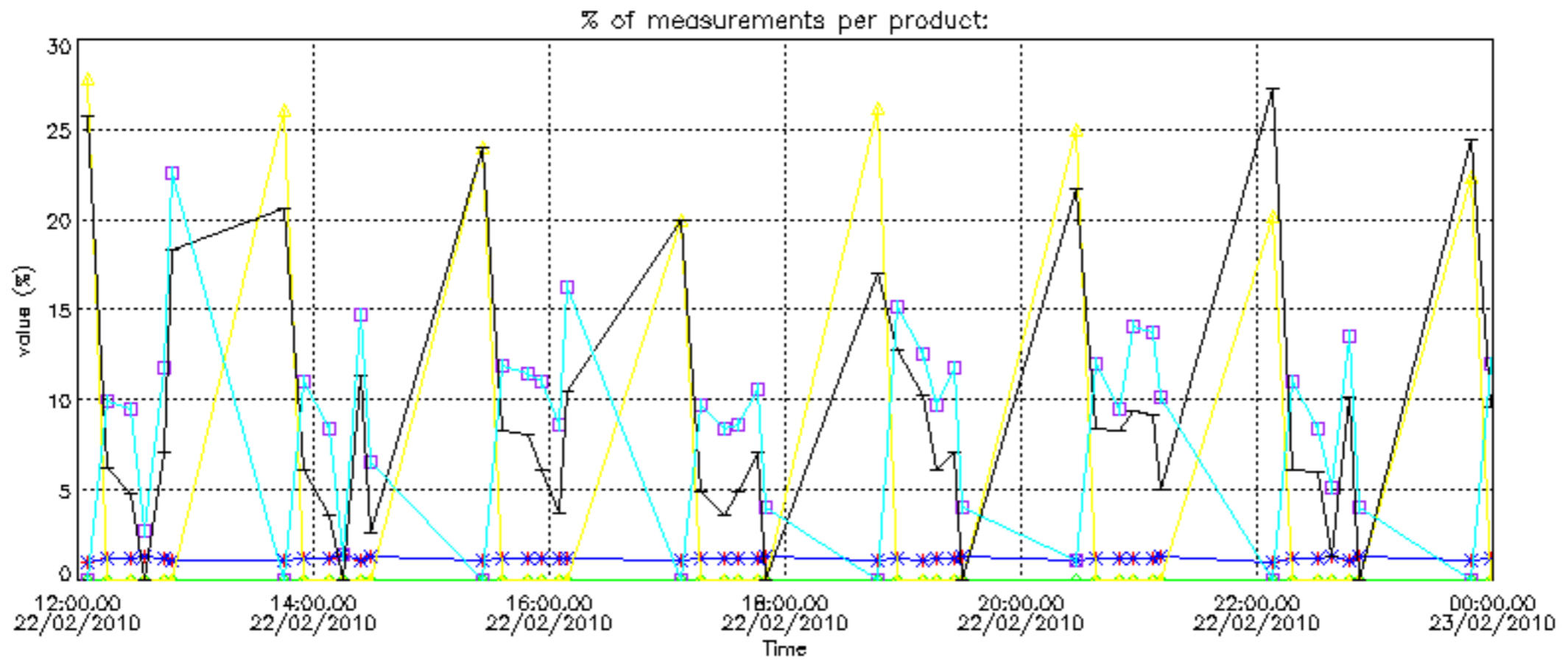


Percentage of flagged data per NO3 profile

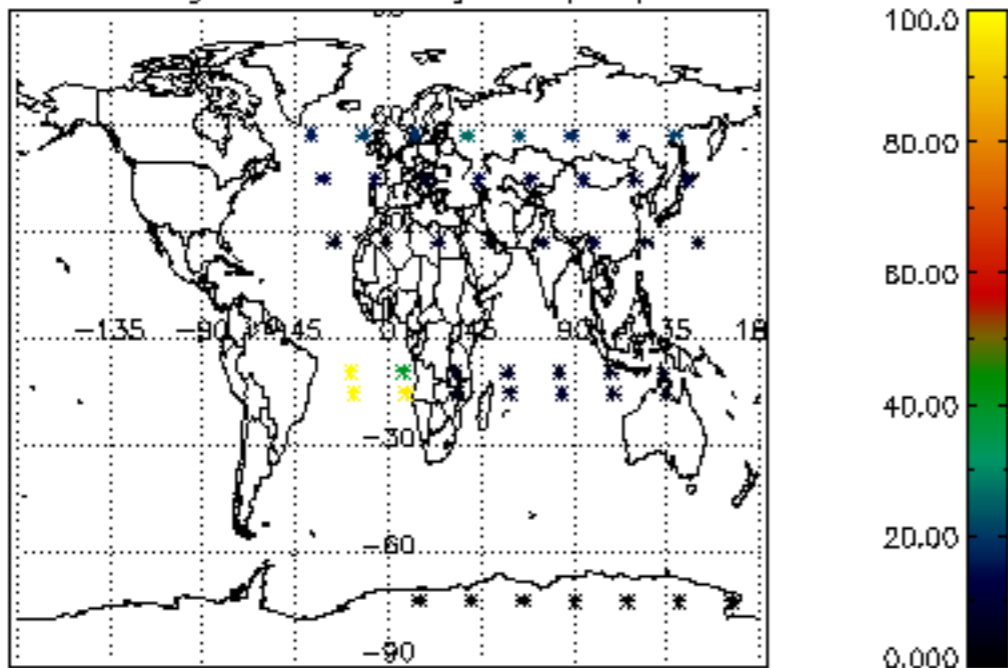




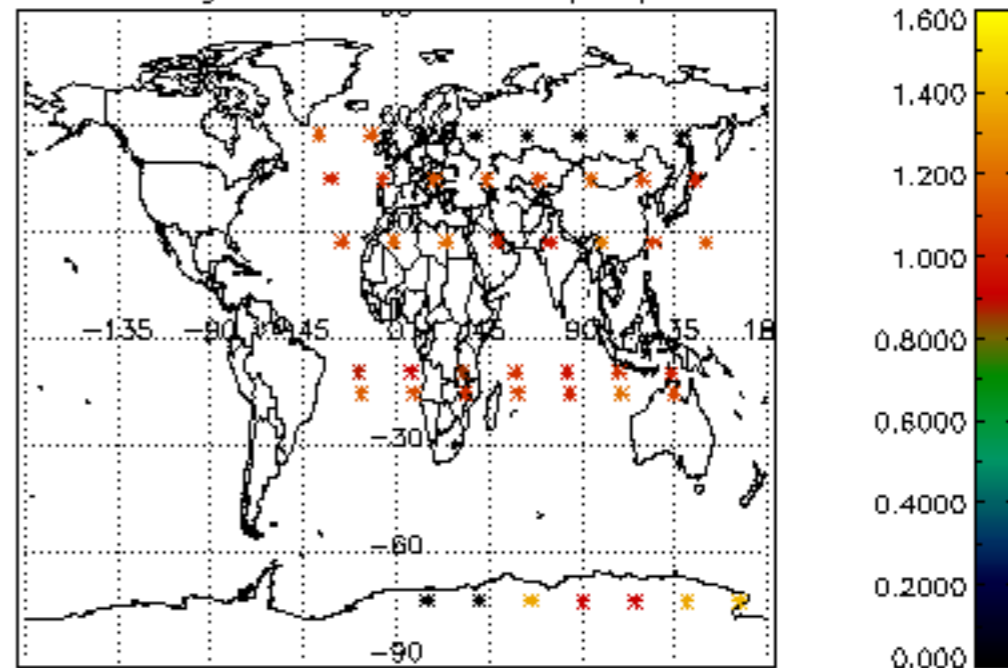




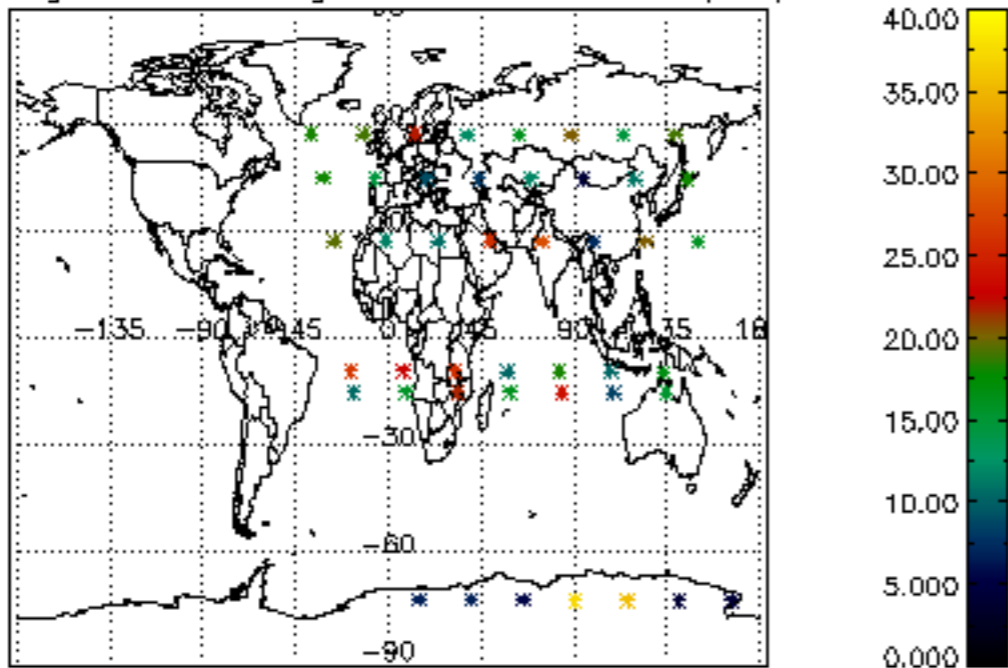
Percentage of cosmic ray hits per profile



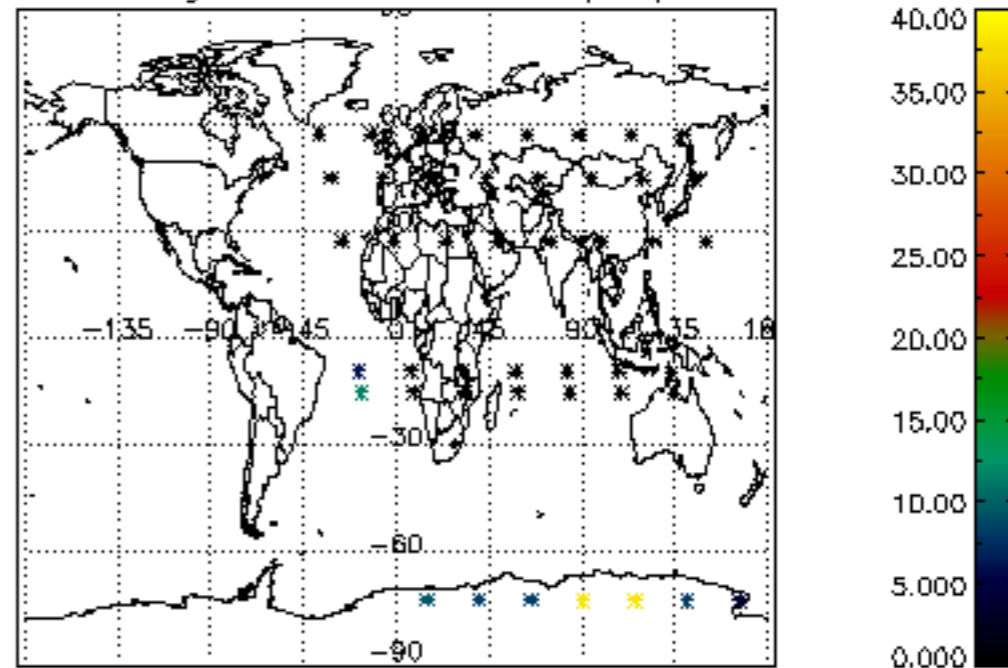
Percentage of datation errors per profile



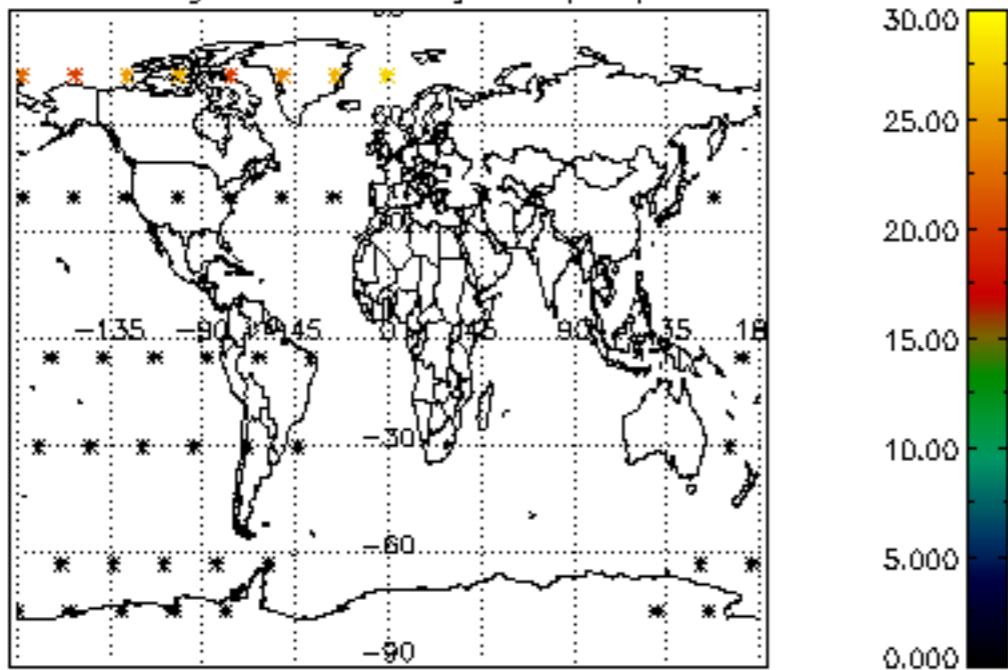
Percentage of star falling outside central band per profile



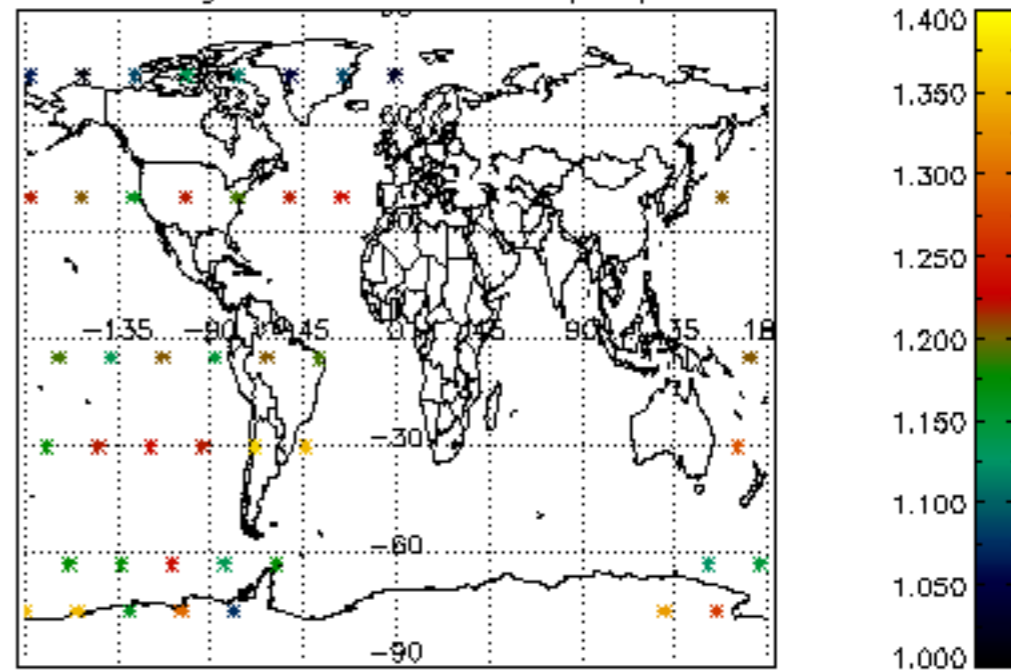
Percentage of saturation errors per profile



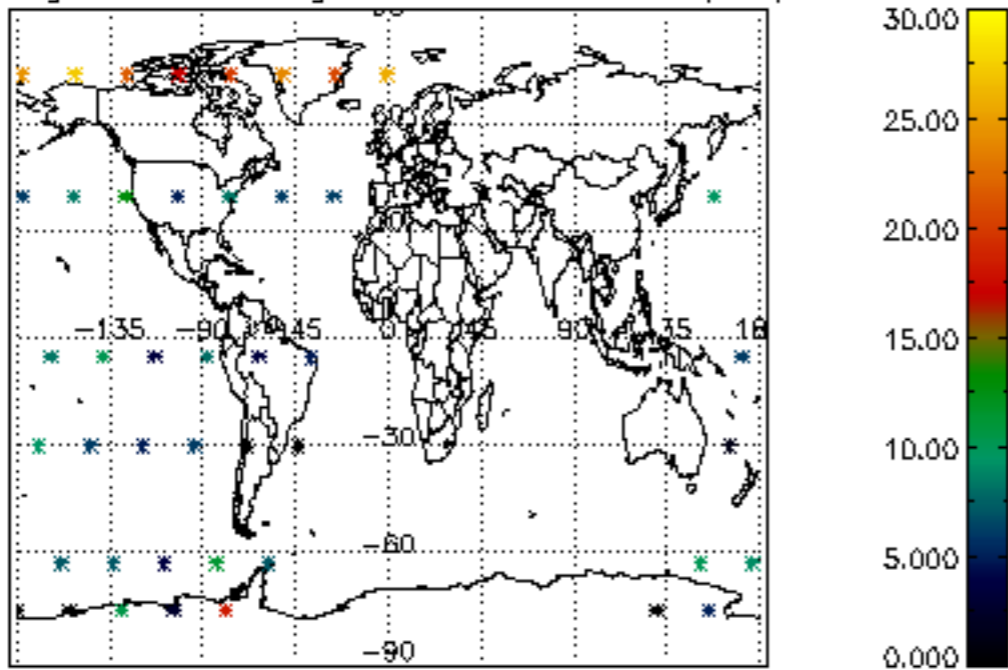
Percentage of cosmic ray hits per profile



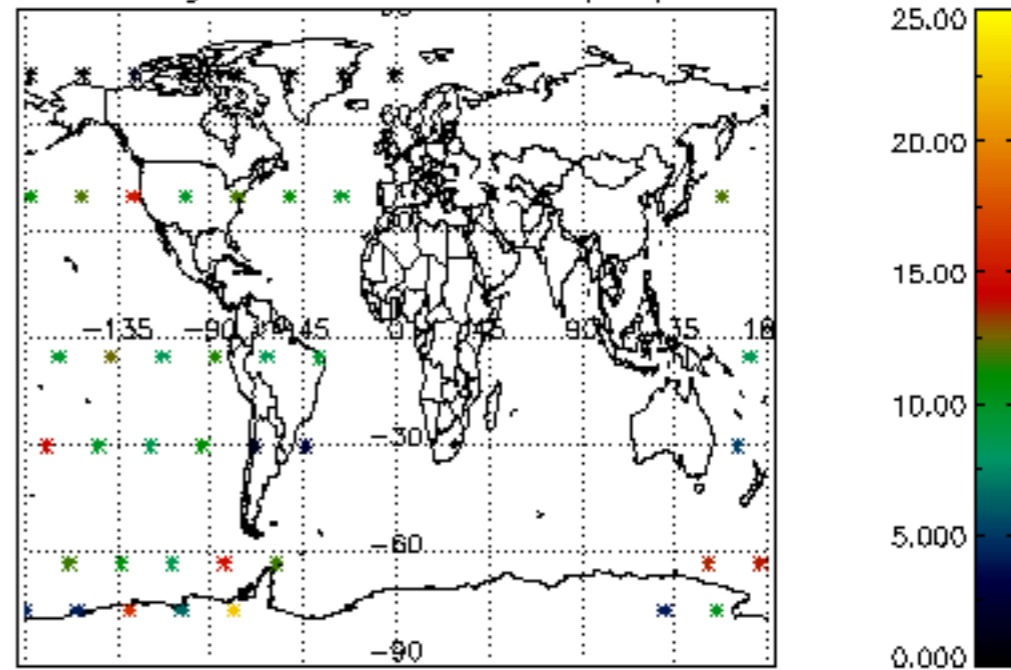
Percentage of datation errors per profile

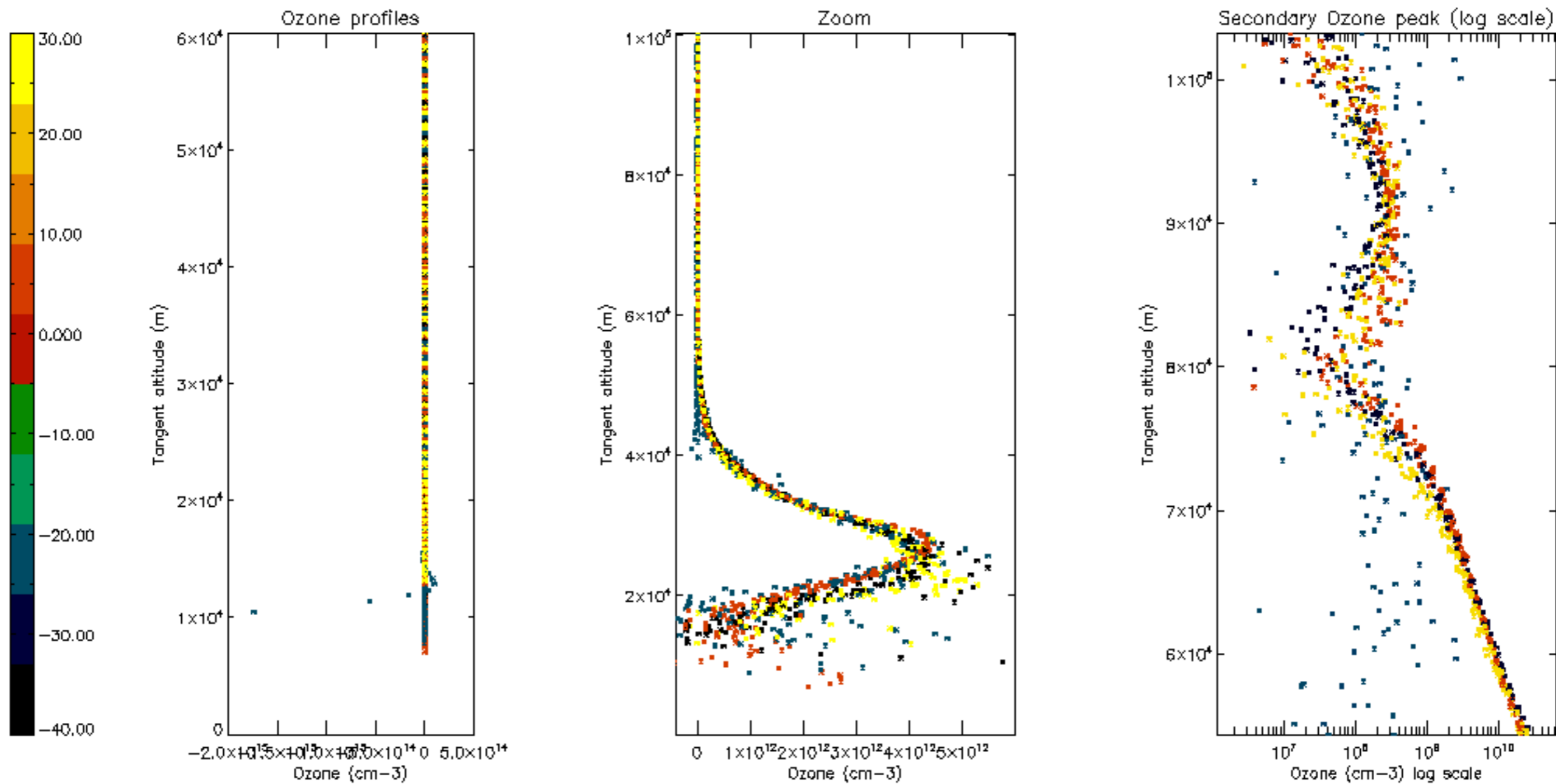


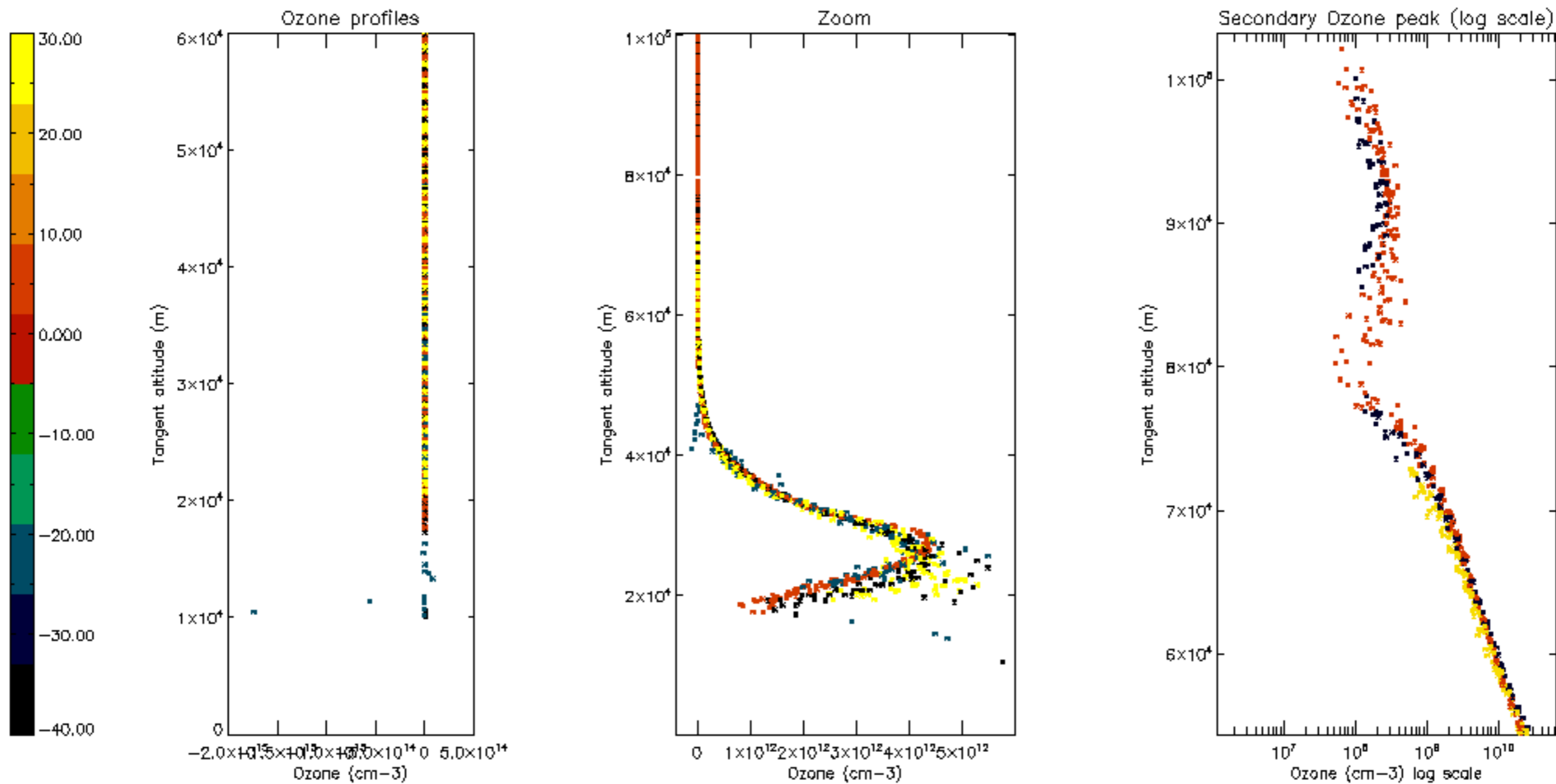
Percentage of star falling outside central band per profile

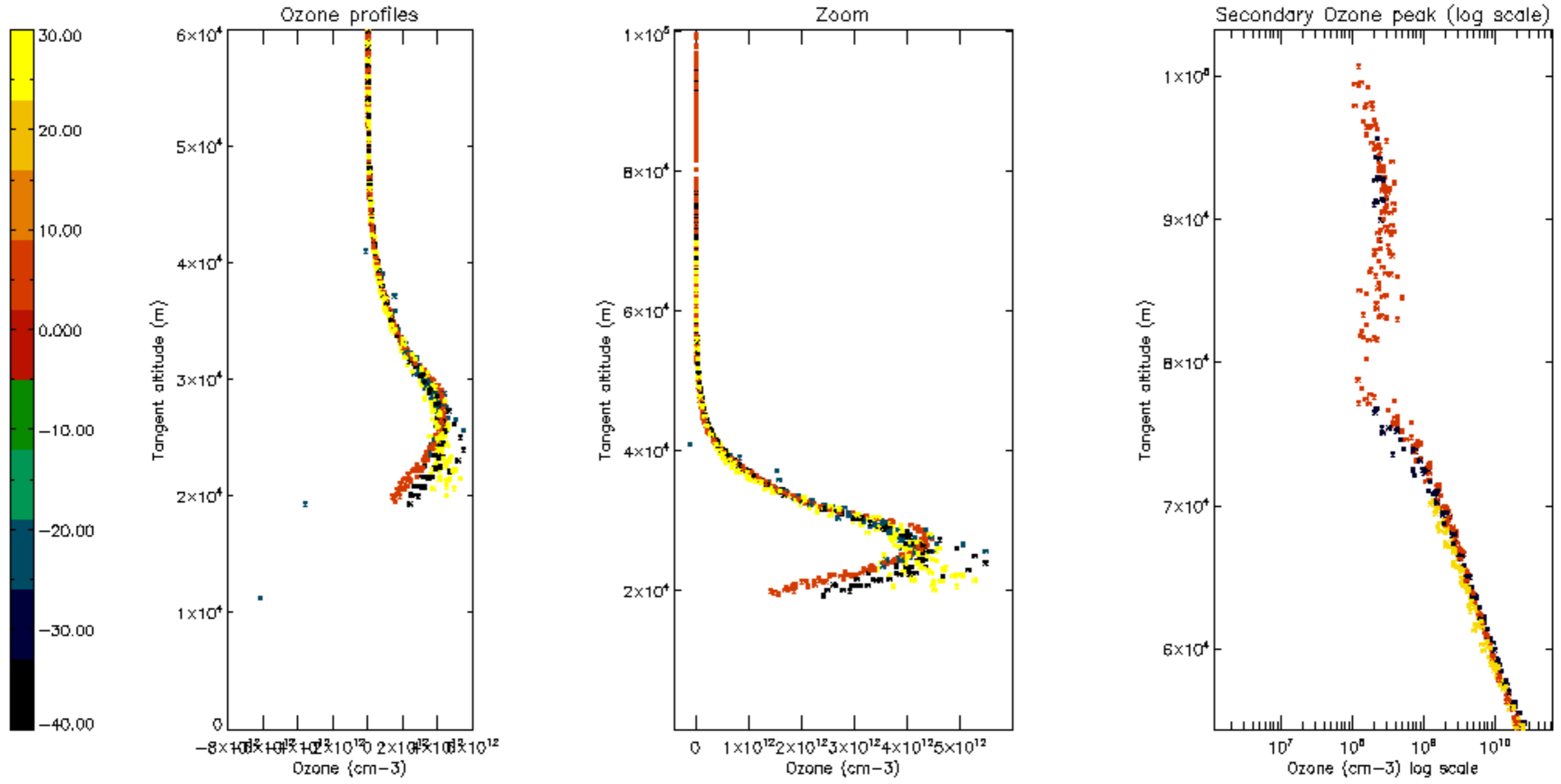


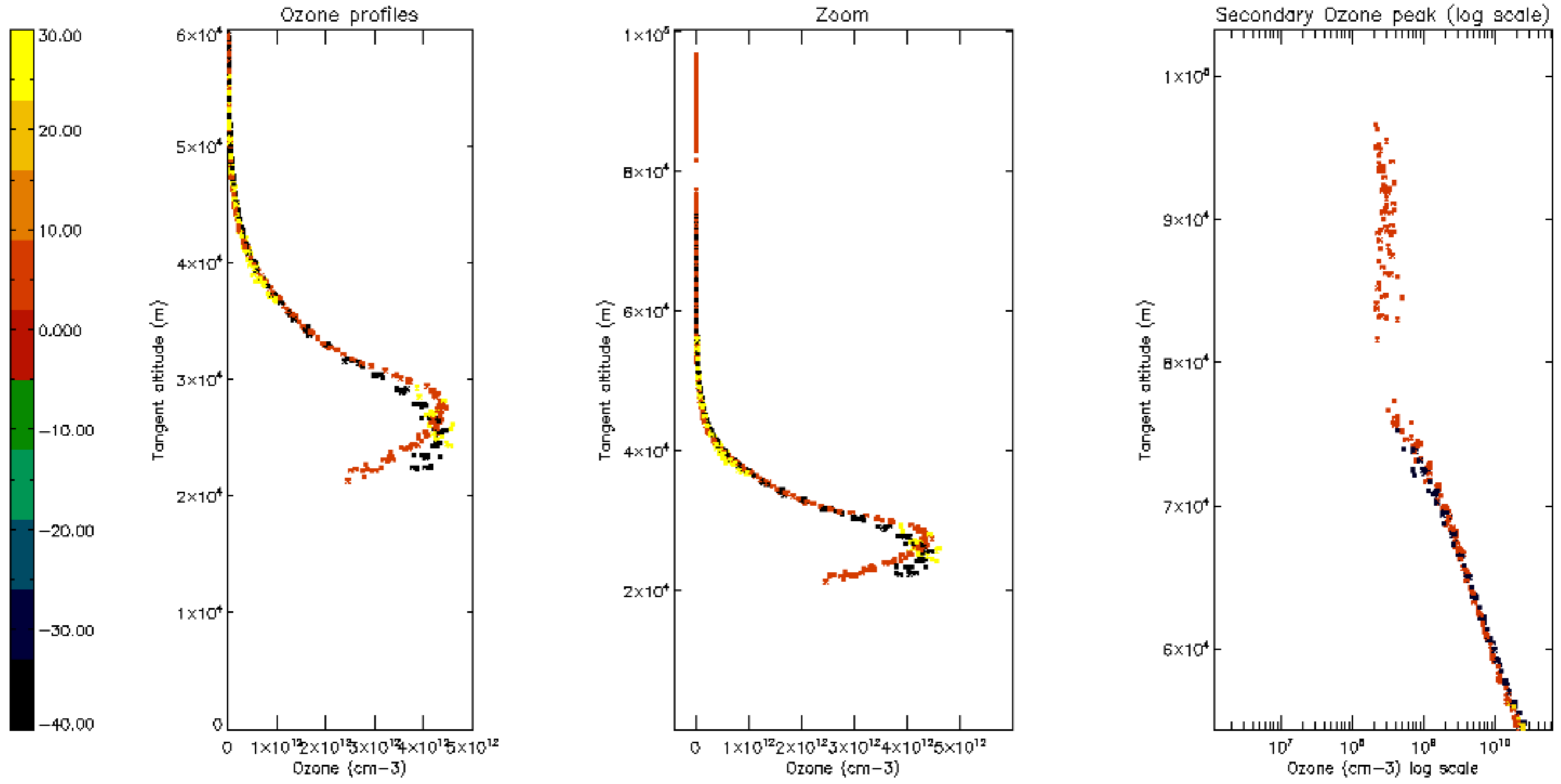
Percentage of saturation errors per profile



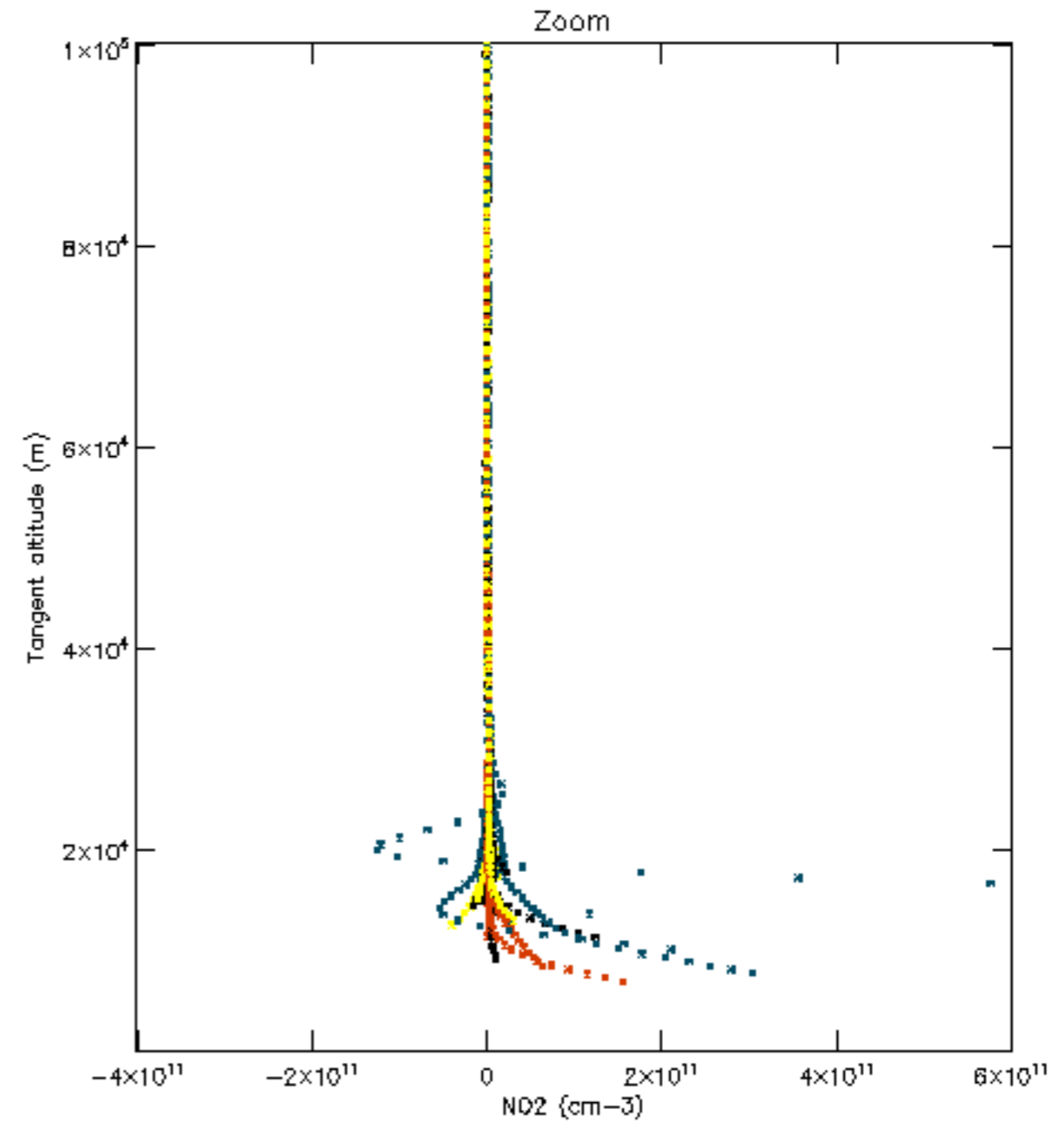
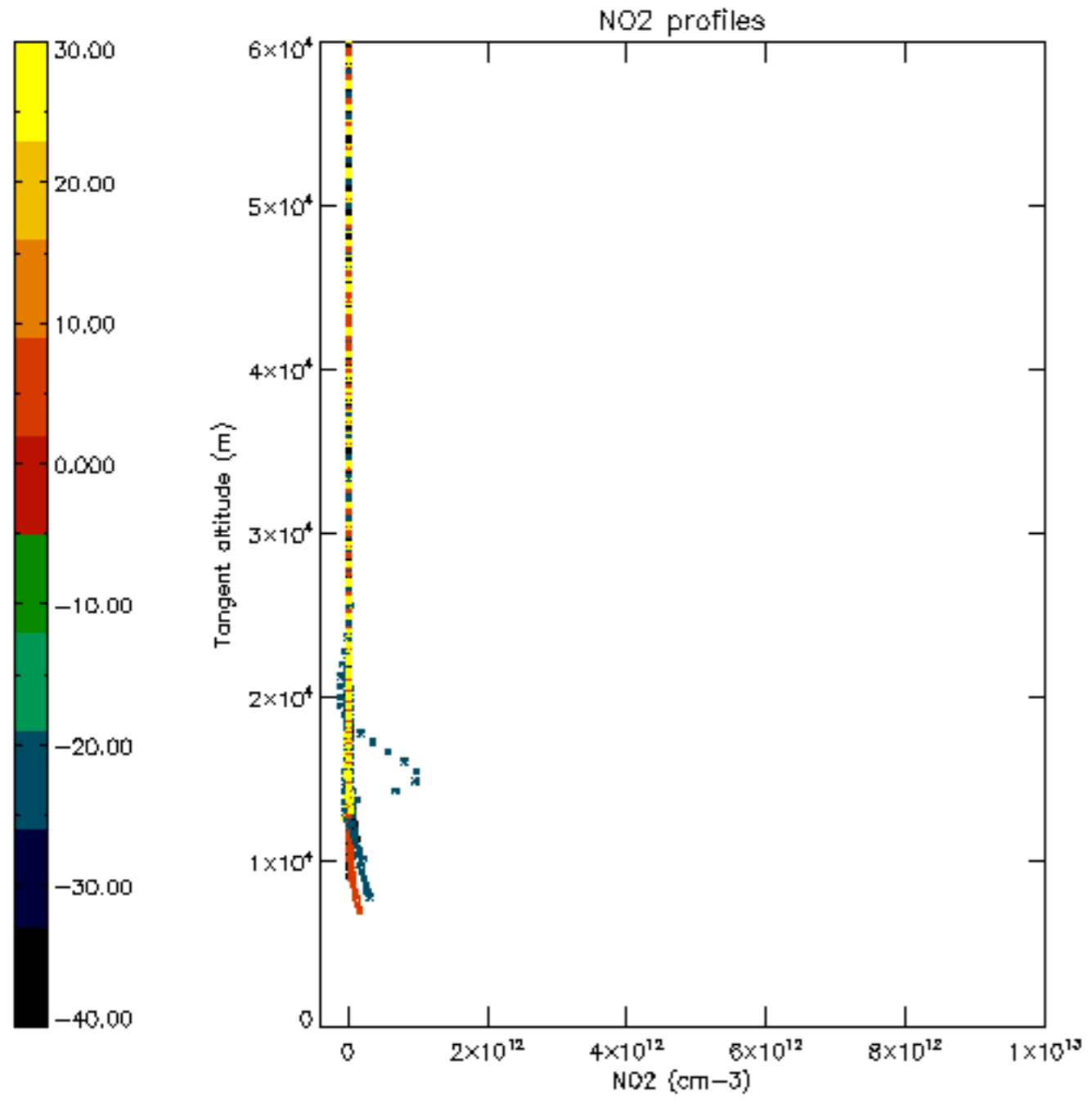


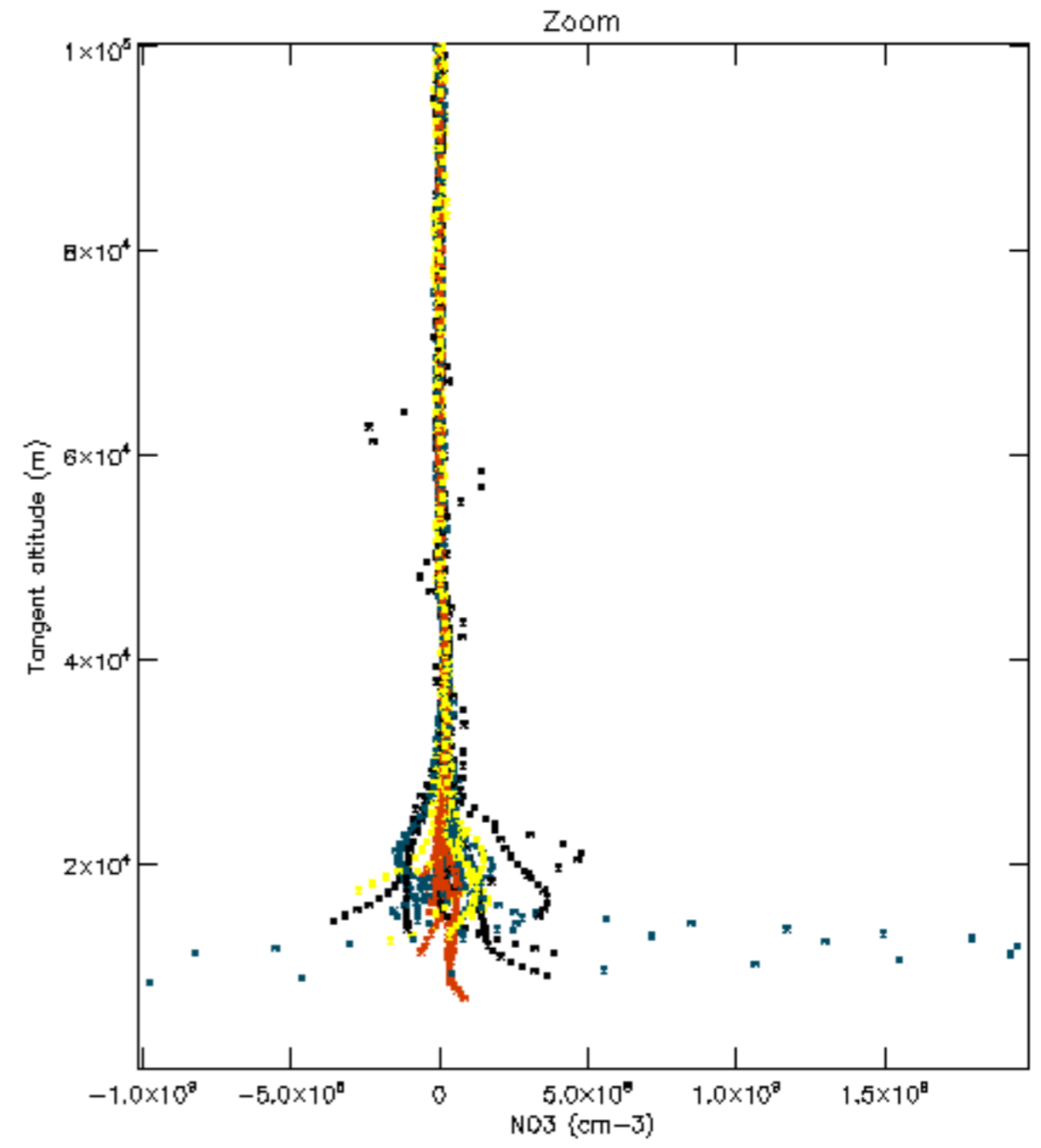
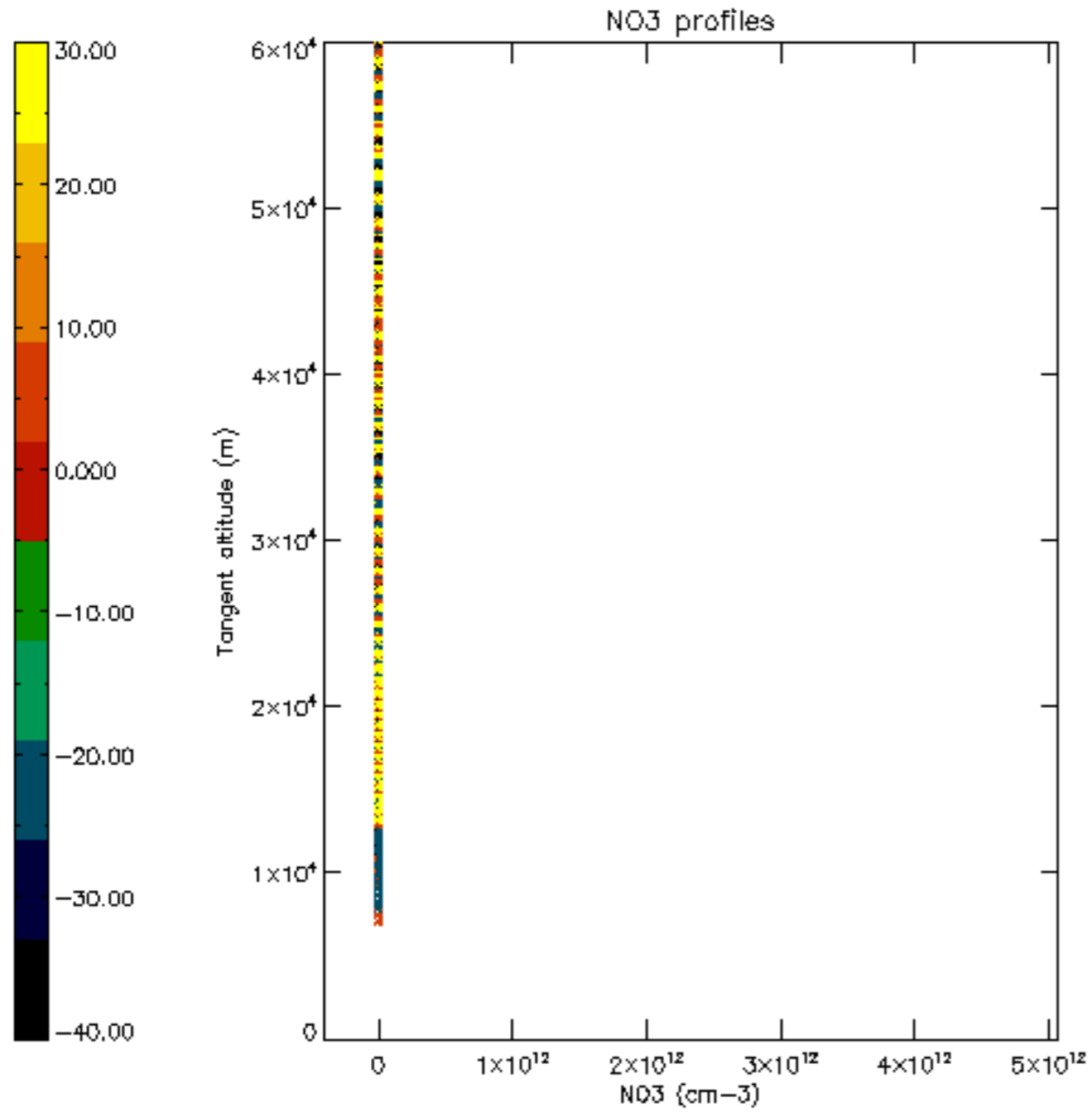


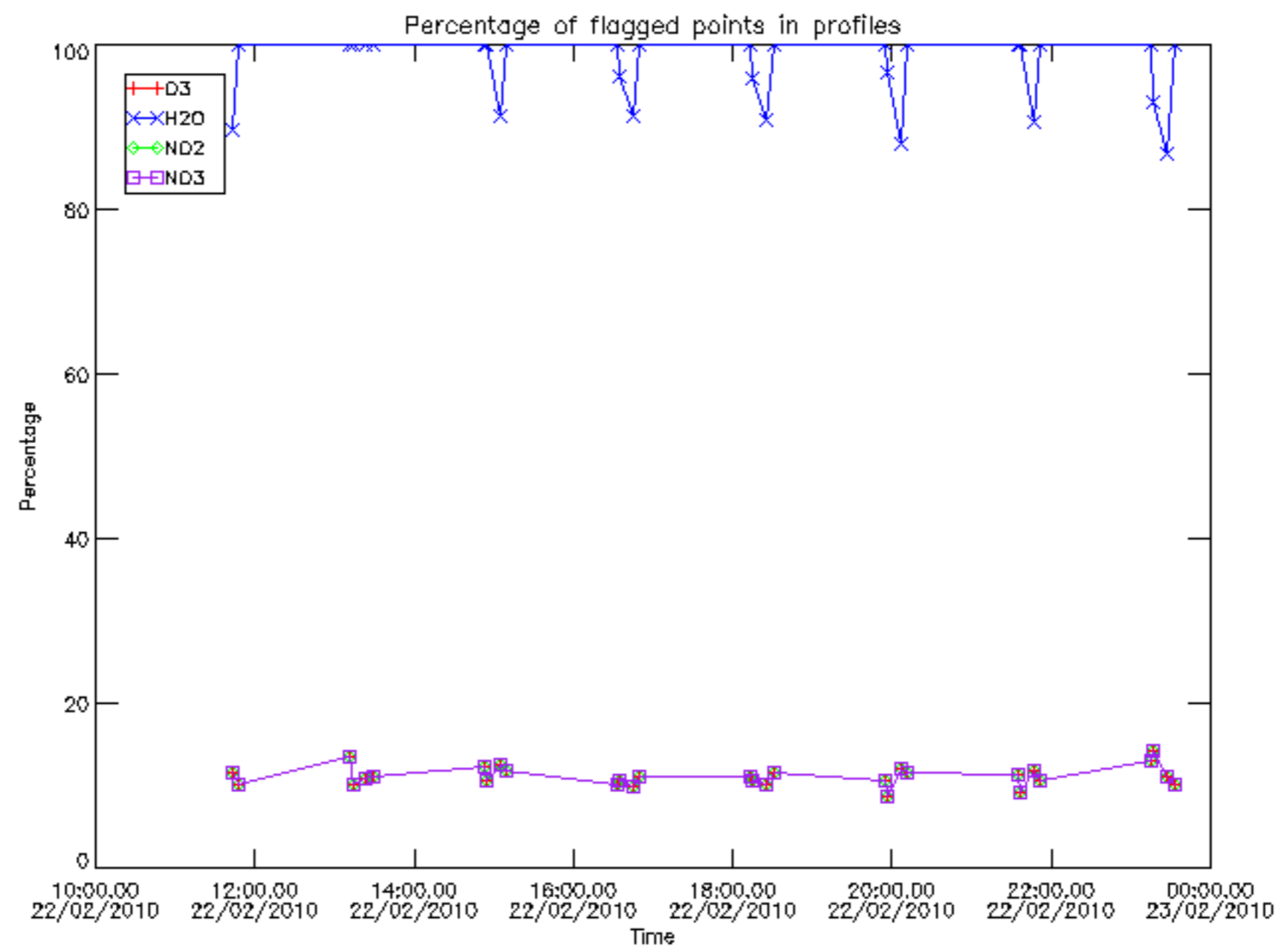




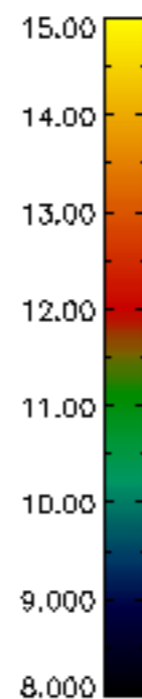
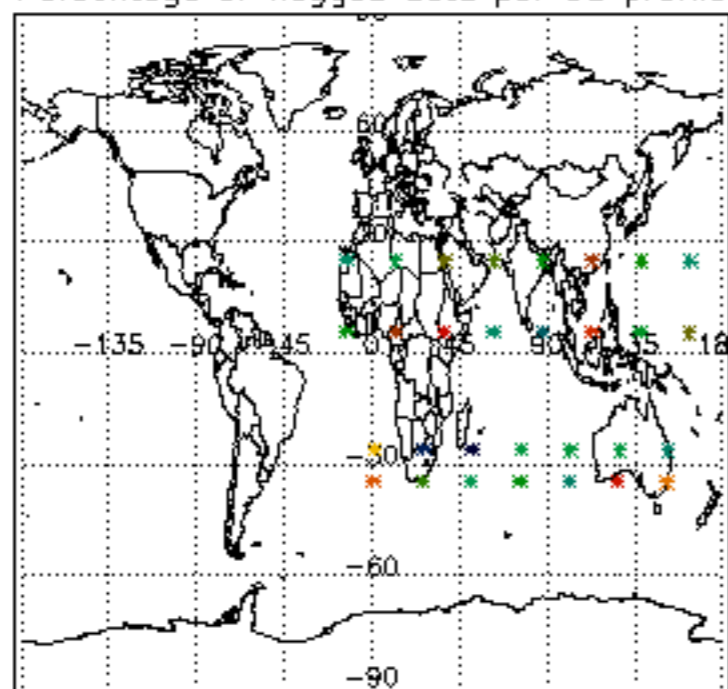




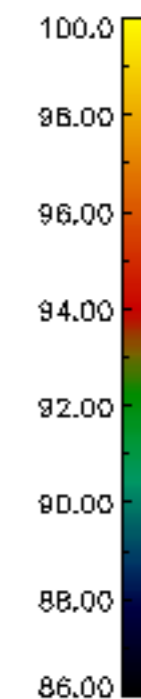
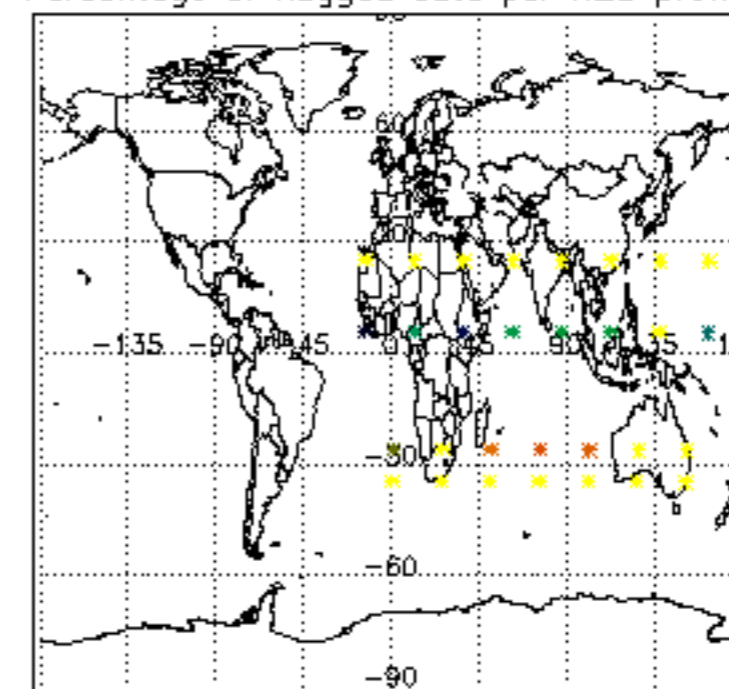




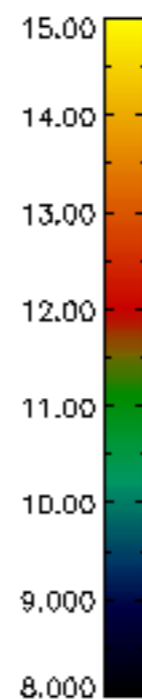
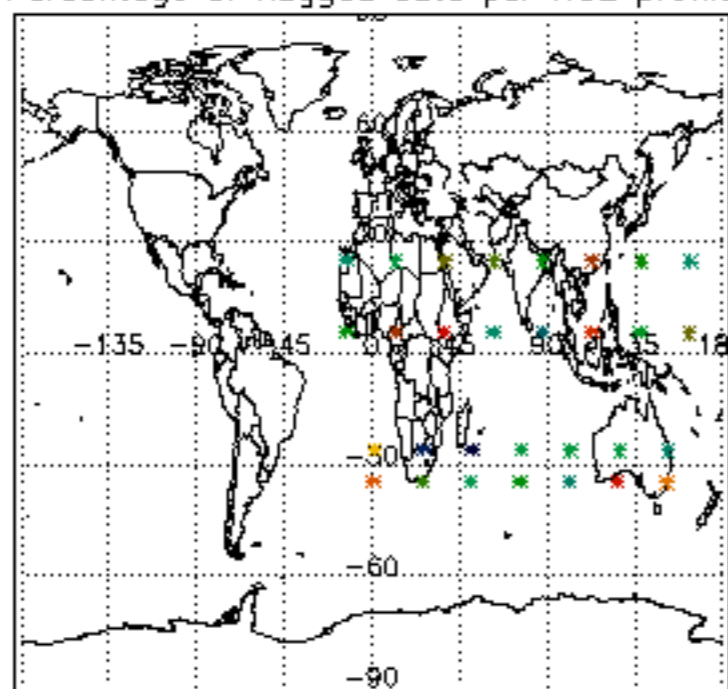
Percentage of flagged data per D3 profile



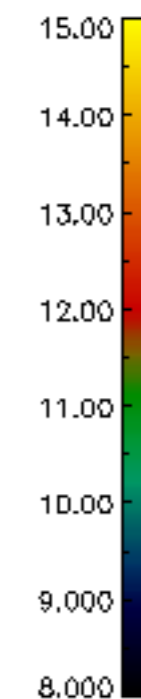
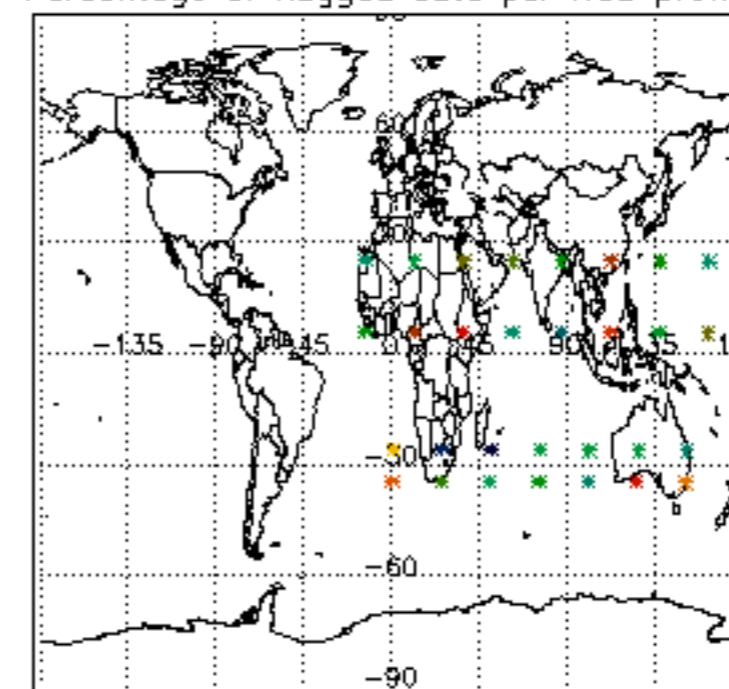
Percentage of flagged data per H2O profile

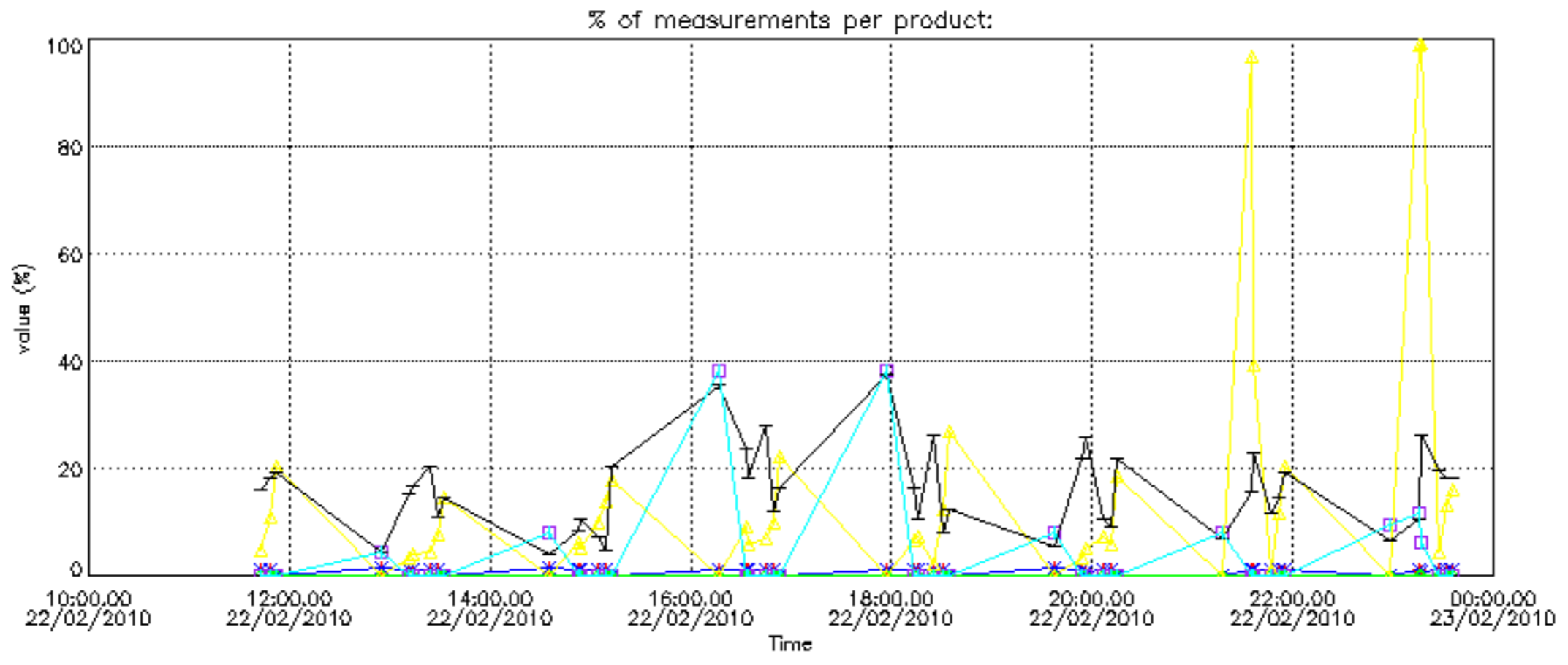
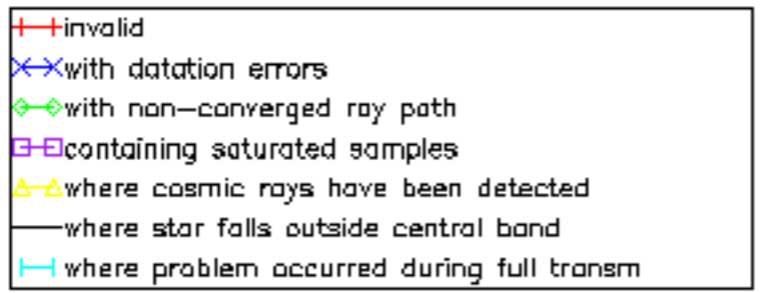


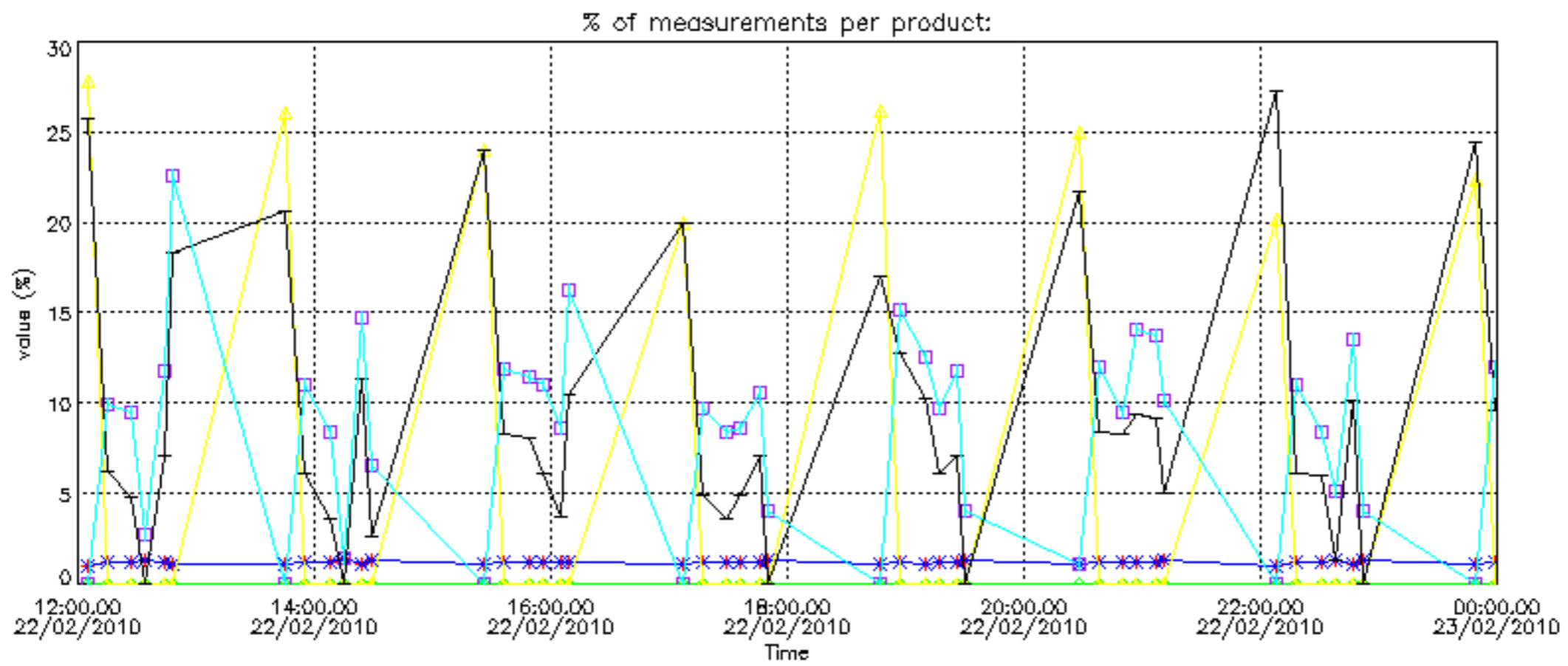
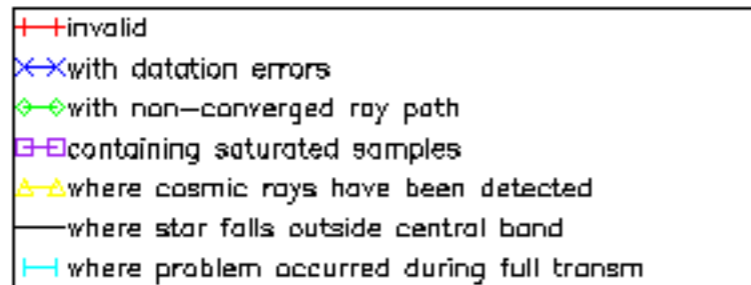
Percentage of flagged data per NO2 profile



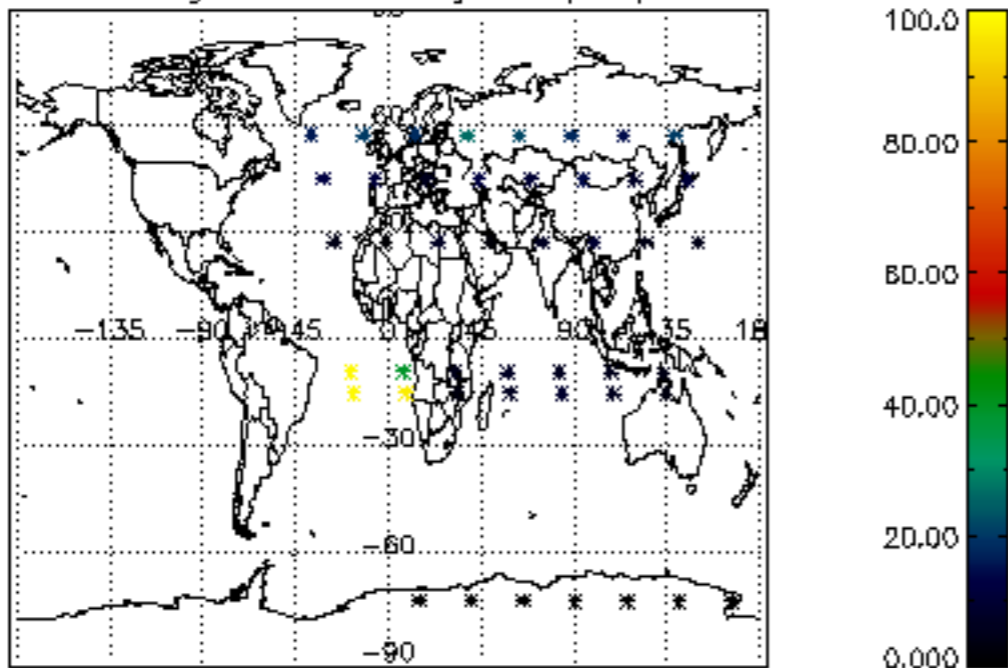
Percentage of flagged data per NO3 profile



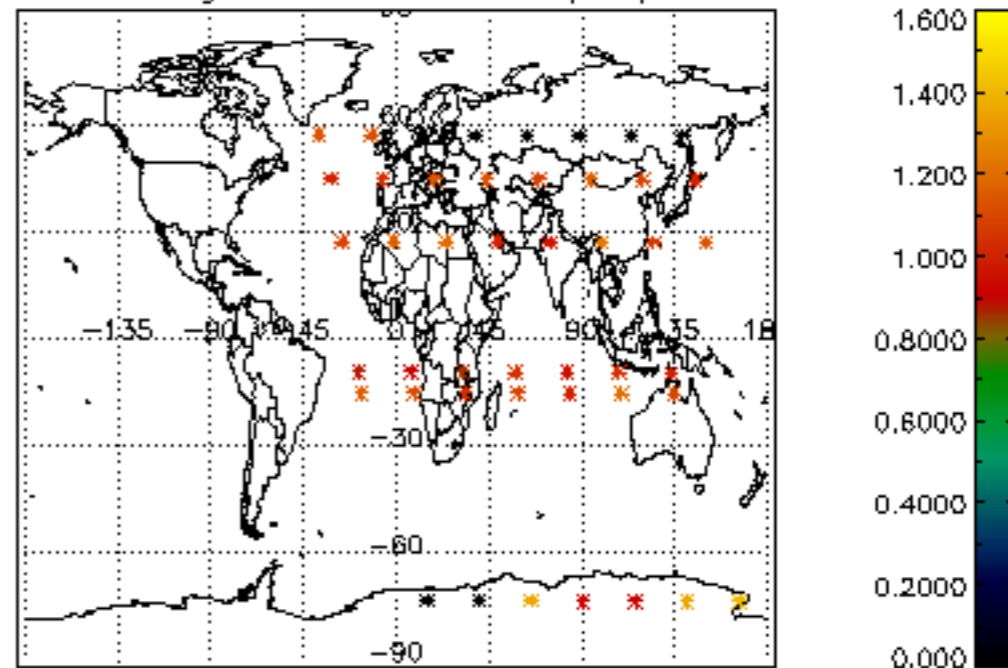




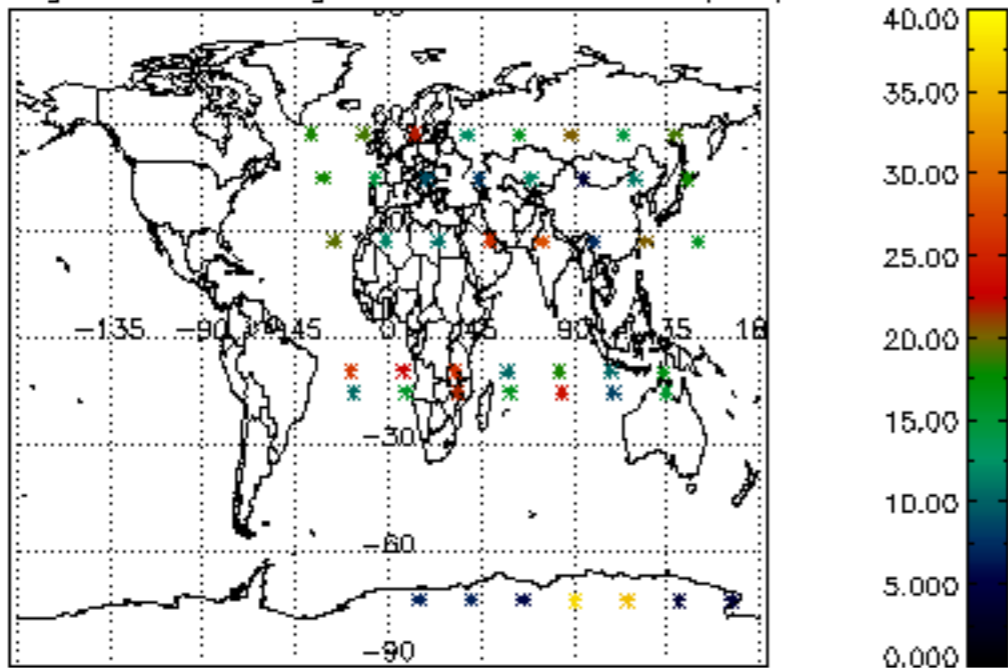
Percentage of cosmic ray hits per profile



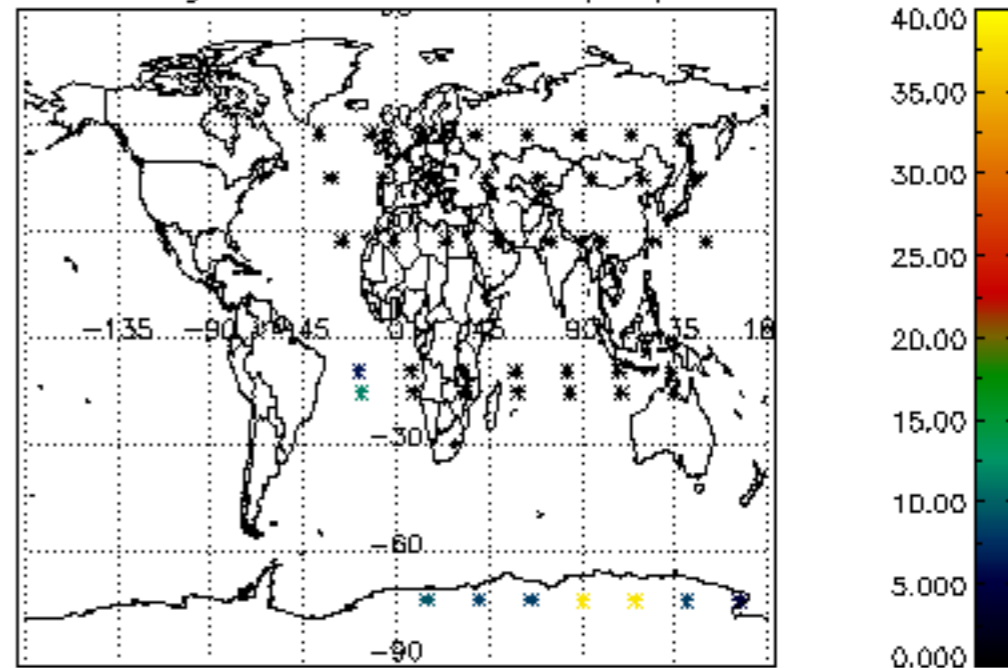
Percentage of datation errors per profile



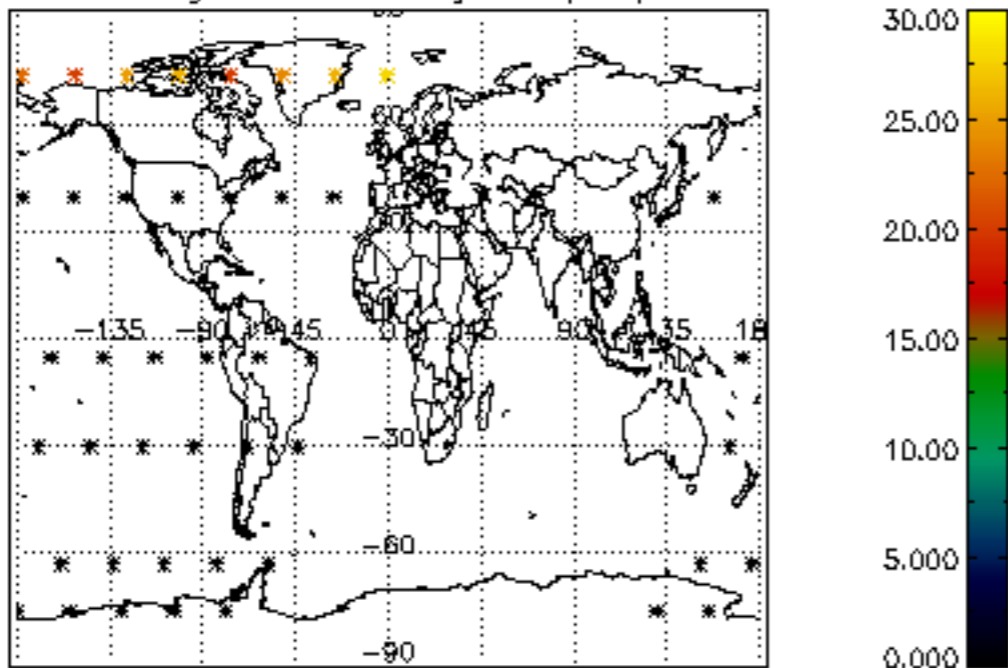
Percentage of star falling outside central band per profile



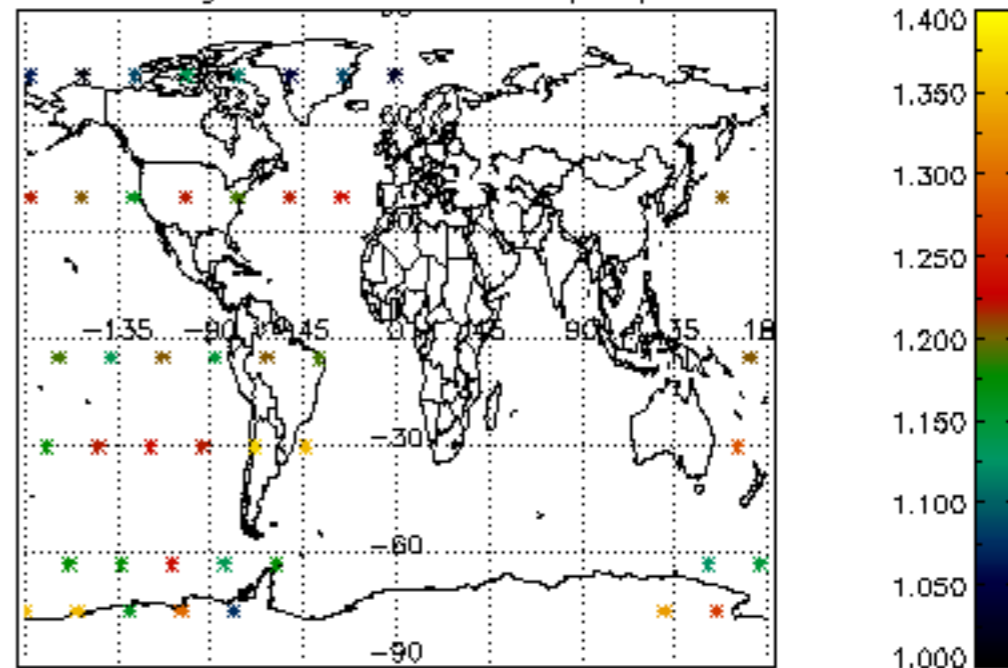
Percentage of saturation errors per profile



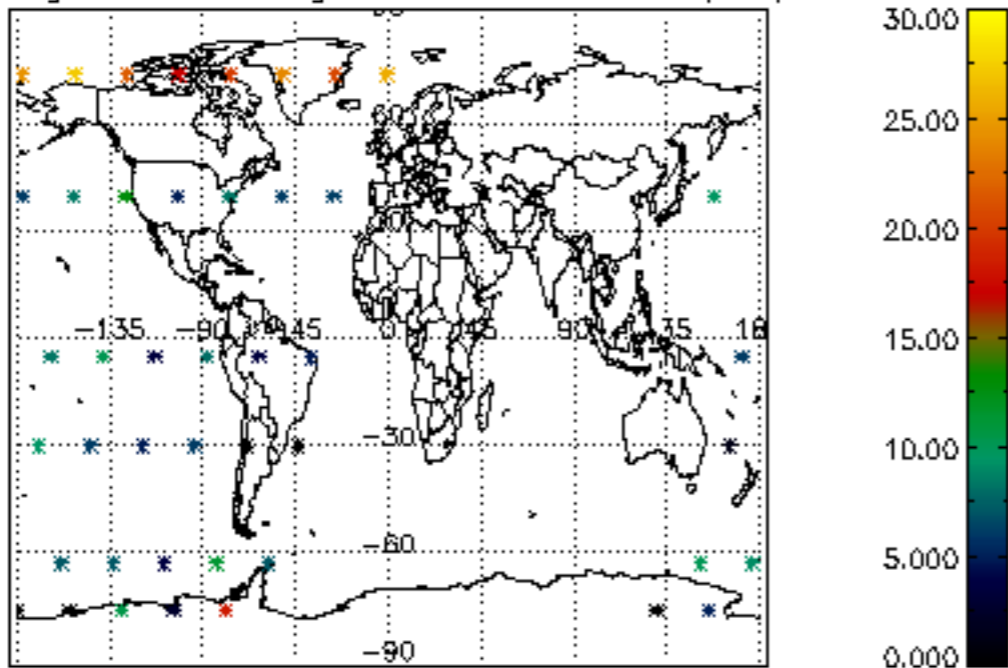
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

