

# 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 12:54:59
Data source version	GOMOS/6.01
Start time of products	22-09-2009 (22SEP2009 00:00:00)
Stop time of products	23-09-2009 (23SEP2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	85
Nb of prods with errors	0

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

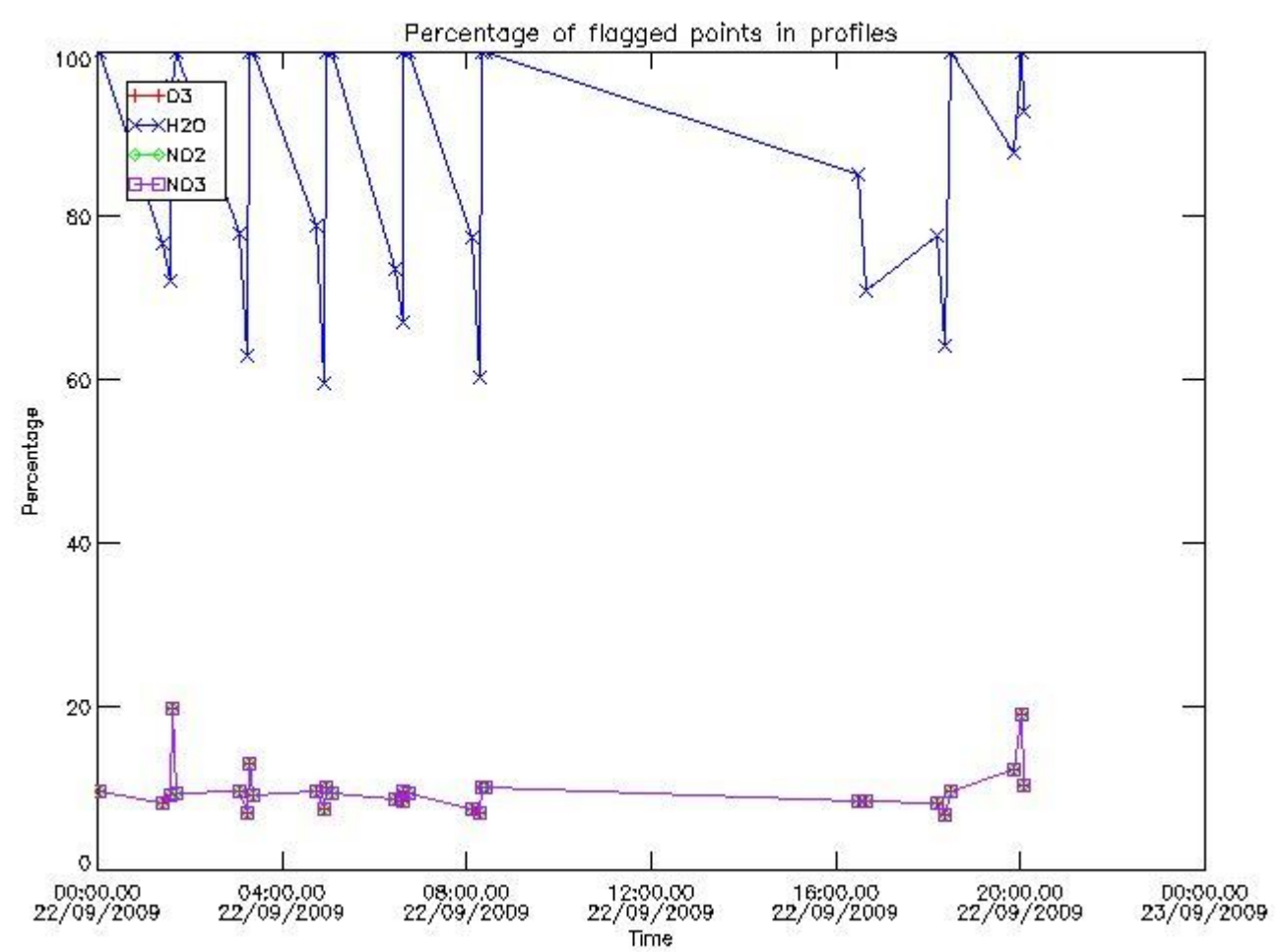
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20090922_000207_000000532082_00403_39535_8411.N1	22-SEP-2009 00:02:07	Dark	52.500	108	Alp Col	2.6520	15200.	105	39535	No
2	GOM_NL__2PRFIN20090922_001339_000000542082_00403_39535_8412.N1	22-SEP-2009 00:13:39	Straylight	54.000	157	The1Eri	2.9060	9300.0	108	39535	No
3	GOM_NL__2PRFIN20090922_002548_000000532082_00403_39535_8413.N1	22-SEP-2009 00:25:48	Twilight_stray	53.000	52	16Bet Cet	2.0370	4500.0	106	39535	No
4	GOM_NL__2PRFIN20090922_003714_000000452082_00403_39535_8414.N1	22-SEP-2009 00:37:14	Bright	45.000	140	88Gam Peg	2.8340	26000.	90	39535	No
5	GOM_NL__2PRFIN20090922_004133_000000452082_00403_39535_8415.N1	22-SEP-2009 00:41:33	Bright	45.000	58	21Alp And	2.0730	11000.	90	39535	No
6	GOM_NL__2PRFIN20090922_005000_000000402082_00403_39535_8416.N1	22-SEP-2009 00:50:00	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	39535	No
7	GOM_NL__2PRFIN20090922_005138_000000422082_00403_39535_8417.N1	22-SEP-2009 00:51:38	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	39535	No
8	GOM_NL__2PRFIN20090922_011502_000000682082_00403_39535_8418.N1	22-SEP-2009 01:15:02	Bright	68.000	24	66Alp Gem	1.5800	10200.	136	39535	No
9	GOM_NL__2PRFIN20090922_012424_000000622082_00403_39535_8419.N1	22-SEP-2009 01:24:24	Dark	62.000	8	10Alp CMi	0.40000	6500.0	124	39535	No
10	GOM_NL__2PRFIN20090922_013422_000000672082_00403_39535_8420.N1	22-SEP-2009 01:34:22	Dark	66.500	1	9Alp CMa	-1.4400	11000.	133	39535	No
11	GOM_NL__2PRFIN20090922_013611_000000492082_00403_39535_8421.N1	22-SEP-2009 01:36:11	Dark	48.500	23	21Eps CMa	1.5020	26000.	97	39535	No
12	GOM_NL__2PRFIN20090922_014244_000000542082_00404_39536_8433.N1	22-SEP-2009 01:42:44	Dark	54.000	108	Alp Col	2.6520	15200.	108	39536	No
13	GOM_NL__2PRFIN20090922_015415_000000532082_00404_39536_8434.N1	22-SEP-2009 01:54:15	Straylight	52.500	157	The1Eri	2.9060	9300.0	105	39536	No
14	GOM_NL__2PRFIN20090922_020624_000000532082_00404_39536_8435.N1	22-SEP-2009 02:06:24	Twilight_stray	52.500	52	16Bet Cet	2.0370	4500.0	105	39536	No
15	GOM_NL__2PRFIN20090922_021749_000000452082_00404_39536_8436.N1	22-SEP-2009 02:17:49	Bright	44.500	140	88Gam Peg	2.8340	26000.	89	39536	No
16	GOM_NL__2PRFIN20090922_022209_000000442082_00404_39536_8437.N1	22-SEP-2009 02:22:09	Bright	44.000	58	21Alp And	2.0730	11000.	88	39536	No
17	GOM_NL__2PRFIN20090922_023035_000000412082_00404_39536_8438.N1	22-SEP-2009 02:30:35	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	39536	No
18	GOM_NL__2PRFIN20090922_023213_000000382082_00404_39536_8439.N1	22-SEP-2009 02:32:13	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	39536	No
19	GOM_NL__2PRFIN20090922_025538_000000492082_00404_39536_8440.N1	22-SEP-2009 02:55:38	Bright	48.500	24	66Alp Gem	1.5800	10200.	97	39536	No
20	GOM_NL__2PRFIN20090922_030501_000000682082_00404_39536_8441.N1	22-SEP-2009 03:05:01	Dark	68.000	8	10Alp CMi	0.40000	6500.0	136	39536	No
21	GOM_NL__2PRFIN20090922_031500_000000722082_00404_39536_8442.N1	22-SEP-2009 03:15:00	Dark	72.000	1	9Alp CMa	-1.4400	11000.	144	39536	No
22	GOM_NL__2PRFIN20090922_031648_000000472082_00404_39536_8443.N1	22-SEP-2009 03:16:48	Dark	46.500	23	21Eps CMa	1.5020	26000.	93	39536	No
23	GOM_NL__2PRFIN20090922_032322_000000562082_00405_39537_8477.N1	22-SEP-2009 03:23:22	Dark	56.000	108	Alp Col	2.6520	15200.	112	39537	No
24	GOM_NL__2PRFIN20090922_033452_000000532082_00405_39537_8478.N1	22-SEP-2009 03:34:52	Straylight	53.000	157	The1Eri	2.9060	9300.0	106	39537	No
25	GOM_NL__2PRFIN20090922_034700_000000532082_00405_39537_8479.N1	22-SEP-2009 03:47:00	Twilight_stray	52.500	52	16Bet Cet	2.0370	4500.0	105	39537	No
26	GOM_NL__2PRFIN20090922_035825_000000442082_00405_39537_8480.N1	22-SEP-2009 03:58:25	Bright	43.500	140	88Gam Peg	2.8340	26000.	87	39537	No
27	GOM_NL__2PRFIN20090922_040244_000000432082_00405_39537_8481.N1	22-SEP-2009 04:02:44	Bright	43.000	58	21Alp And	2.0730	11000.	86	39537	No
28	GOM_NL__2PRFIN20090922_041111_000000402082_00405_39537_8482.N1	22-SEP-2009 04:11:11	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	39537	No
29	GOM_NL__2PRFIN20090922_041248_000000422082_00405_39537_8483.N1	22-SEP-2009 04:12:48	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	39537	No
30	GOM_NL__2PRFIN20090922_043614_000000482082_00405_39537_8484.N1	22-SEP-2009 04:36:14	Bright	48.000	24	66Alp Gem	1.5800	10200.	96	39537	No
31	GOM_NL__2PRFIN20090922_044537_000000692082_00405_39537_8485.N1	22-SEP-2009 04:45:37	Dark	69.000	8	10Alp CMi	0.40000	6500.0	138	39537	No
32	GOM_NL__2PRFIN20090922_045537_000000692082_00405_39537_8486.N1	22-SEP-2009 04:55:37	Dark	68.500	1	9Alp CMa	-1.4400	11000.	137	39537	No
33	GOM_NL__2PRFIN20090922_045725_000000502082_00405_39537_8487.N1	22-SEP-2009 04:57:25	Dark	50.000	23	21Eps CMa	1.5020	26000.	100	39537	No
34	GOM_NL__2PRFIN20090922_050359_000000542082_00406_39538_8492.N1	22-SEP-2009 05:03:59	Dark	54.000	108	Alp Col	2.6520	15200.	108	39538	No
35	GOM_NL__2PRFIN20090922_051529_000000522082_00406_39538_8493.N1	22-SEP-2009 05:15:29	Straylight	52.000	157	The1Eri	2.9060	9300.0	104	39538	No
36	GOM_NL__2PRFIN20090922_052737_000000522082_00406_39538_8494.N1	22-SEP-2009 05:27:37	Twilight_stray	51.500	52	16Bet Cet	2.0370	4500.0	103	39538	No
37	GOM_NL__2PRFIN20090922_053900_000000442082_00406_39538_8495.N1	22-SEP-2009 05:39:00	Bright	44.000	140	88Gam Peg	2.8340	26000.	88	39538	No
38	GOM_NL__2PRFIN20090922_054320_000000452082_00406_39538_8496.N1	22-SEP-2009 05:43:20	Bright	44.500	58	21Alp And	2.0730	11000.	89	39538	No
39	GOM_NL__2PRFIN20090922_055147_000000402082_00406_39538_8497.N1	22-SEP-2009 05:51:47	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	39538	No
40	GOM_NL__2PRFIN20090922_055324_000000422082_00406_39538_8498.N1	22-SEP-2009 05:53:24	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	39538	No
41	GOM_NL__2PRFIN20090922_061650_000000502082_00406_39538_8499.N1	22-SEP-2009 06:16:50	Bright	50.000	24	66Alp Gem	1.5800	10200.	100	39538	No
42	GOM_NL__2PRFIN20090922_062614_000000592082_00406_39538_8500.N1	22-SEP-2009 06:26:14	Dark	59.000	8	10Alp CMi	0.40000	6500.0	118	39538	No

43	GOM_NL__2PRFIN20090922_063614_000000612082_00406_39538_8501.N1	22-SEP-2009 06:36:14	Dark	61.000	1	9Alp CMa	-1.4400	11000.	122	39538	No
44	GOM_NL__2PRFIN20090922_063802_000000532082_00406_39538_8502.N1	22-SEP-2009 06:38:02	Dark	53.000	23	21Eps CMa	1.5020	26000.	106	39538	No
45	GOM_NL__2PRFIN20090922_064436_000000542082_00407_39539_8500.N1	22-SEP-2009 06:44:36	Dark	54.000	108	Alp Col	2.6520	15200.	108	39539	No
46	GOM_NL__2PRFIN20090922_065606_000000522082_00407_39539_8501.N1	22-SEP-2009 06:56:06	Straylight	52.000	157	The1Eri	2.9060	9300.0	104	39539	No
47	GOM_NL__2PRFIN20090922_070813_000000522082_00407_39539_8502.N1	22-SEP-2009 07:08:13	Tw_i_and_stray	51.500	52	16Bet Cet	2.0370	4500.0	103	39539	No
48	GOM_NL__2PRFIN20090922_071936_000000452082_00407_39539_8503.N1	22-SEP-2009 07:19:36	Bright	45.000	140	88Gam Peg	2.8340	26000.	90	39539	No
49	GOM_NL__2PRFIN20090922_072355_000000442082_00407_39539_8504.N1	22-SEP-2009 07:23:55	Bright	44.000	58	21Alp And	2.0730	11000.	88	39539	No
50	GOM_NL__2PRFIN20090922_073222_000000402082_00407_39539_8505.N1	22-SEP-2009 07:32:22	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	39539	No
51	GOM_NL__2PRFIN20090922_073359_000000432082_00407_39539_8506.N1	22-SEP-2009 07:33:59	Bright	43.000	76	27Gam Cas	2.3000	30000.	86	39539	No
52	GOM_NL__2PRFIN20090922_075726_000000592082_00407_39539_8507.N1	22-SEP-2009 07:57:26	Bright	59.000	24	66Alp Gem	1.5800	10200.	118	39539	No
53	GOM_NL__2PRFIN20090922_080651_000000692082_00407_39539_8508.N1	22-SEP-2009 08:06:51	Dark	69.000	8	10Alp CMi	0.40000	6500.0	138	39539	No
54	GOM_NL__2PRFIN20090922_081652_000000742082_00407_39539_8509.N1	22-SEP-2009 08:16:52	Dark	73.500	1	9Alp CMa	-1.4400	11000.	147	39539	No
55	GOM_NL__2PRFIN20090922_081839_000000502082_00407_39539_8510.N1	22-SEP-2009 08:18:39	Dark	50.000	23	21Eps CMa	1.5020	26000.	100	39539	No
56	GOM_NL__2PRFIN20090922_082514_000000562082_00408_39540_8514.N1	22-SEP-2009 08:25:14	Dark	55.500	108	Alp Col	2.6520	15200.	111	39540	No
57	GOM_NL__2PRFIN20090922_083643_000000532082_00408_39540_8515.N1	22-SEP-2009 08:36:43	Straylight	53.000	157	The1Eri	2.9060	9300.0	106	39540	No
58	GOM_NL__2PRFIN20090922_084849_000000522082_00408_39540_8516.N1	22-SEP-2009 08:48:49	Tw_i_and_stray	52.000	52	16Bet Cet	2.0370	4500.0	104	39540	No
59	GOM_NL__2PRFIN20090922_155520_000000582082_00412_39544_8569.N1	22-SEP-2009 15:55:20	Bright	58.000	74	11Bet Cas	2.2680	6600.0	116	39544	No
60	GOM_NL__2PRFIN20090922_155656_000000422082_00412_39544_8570.N1	22-SEP-2009 15:56:56	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	39544	No
61	GOM_NL__2PRFIN20090922_162027_000000482082_00412_39544_8571.N1	22-SEP-2009 16:20:27	Bright	48.000	24	66Alp Gem	1.5800	10200.	96	39544	No
62	GOM_NL__2PRFIN20090922_162953_000000612082_00412_39544_8572.N1	22-SEP-2009 16:29:53	Dark	61.000	8	10Alp CMi	0.40000	6500.0	122	39544	No
63	GOM_NL__2PRFIN20090922_163958_000000612082_00412_39544_8573.N1	22-SEP-2009 16:39:58	Dark	60.500	1	9Alp CMa	-1.4400	11000.	121	39544	No
64	GOM_NL__2PRFIN20090922_172309_000000442082_00413_39545_8586.N1	22-SEP-2009 17:23:09	Bright	44.000	140	88Gam Peg	2.8340	26000.	88	39545	No
65	GOM_NL__2PRFIN20090922_172728_000000432082_00413_39545_8587.N1	22-SEP-2009 17:27:28	Bright	43.000	58	21Alp And	2.0730	11000.	86	39545	No
66	GOM_NL__2PRFIN20090922_173555_000000412082_00413_39545_8588.N1	22-SEP-2009 17:35:55	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	39545	No
67	GOM_NL__2PRFIN20090922_173732_000000432082_00413_39545_8589.N1	22-SEP-2009 17:37:32	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	39545	No
68	GOM_NL__2PRFIN20090922_180103_000000492082_00413_39545_8590.N1	22-SEP-2009 18:01:03	Bright	48.500	24	66Alp Gem	1.5800	10200.	97	39545	No
69	GOM_NL__2PRFIN20090922_181030_000000632082_00413_39545_8591.N1	22-SEP-2009 18:10:30	Dark	63.000	8	10Alp CMi	0.40000	6500.0	126	39545	No
70	GOM_NL__2PRFIN20090922_182036_000000762082_00413_39545_8592.N1	22-SEP-2009 18:20:36	Dark	75.500	1	9Alp CMa	-1.4400	11000.	151	39545	No
71	GOM_NL__2PRFIN20090922_182858_000000542082_00414_39546_8600.N1	22-SEP-2009 18:28:58	Dark	53.500	108	Alp Col	2.6520	15200.	107	39546	No
72	GOM_NL__2PRFIN20090922_184024_000000512082_00414_39546_8601.N1	22-SEP-2009 18:40:24	Straylight	50.500	157	The1Eri	2.9060	9300.0	101	39546	No
73	GOM_NL__2PRFIN20090922_185225_000000542082_00414_39546_8602.N1	22-SEP-2009 18:52:25	Tw_i_and_stray	53.500	52	16Bet Cet	2.0370	4500.0	107	39546	No
74	GOM_NL__2PRFIN20090922_190345_000000442082_00414_39546_8603.N1	22-SEP-2009 19:03:45	Bright	44.000	140	88Gam Peg	2.8340	26000.	88	39546	No
75	GOM_NL__2PRFIN20090922_190804_000000432082_00414_39546_8604.N1	22-SEP-2009 19:08:04	Bright	43.000	58	21Alp And	2.0730	11000.	86	39546	No
76	GOM_NL__2PRFIN20090922_191631_000000412082_00414_39546_8605.N1	22-SEP-2009 19:16:31	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	39546	No
77	GOM_NL__2PRFIN20090922_191807_000000432082_00414_39546_8606.N1	22-SEP-2009 19:18:07	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	39546	No
78	GOM_NL__2PRFIN20090922_195106_000000422082_00414_39546_8607.N1	22-SEP-2009 19:51:06	Dark	41.500	8	10Alp CMi	0.40000	6500.0	83	39546	No
79	GOM_NL__2PRFIN20090922_200113_000000272082_00414_39546_8608.N1	22-SEP-2009 20:01:13	Dark	27.000	1	9Alp CMa	-1.4400	11000.	54	39546	No
80	GOM_NL__2PRFIN20090922_200340_000000502082_00414_39546_8609.N1	22-SEP-2009 20:03:40	Dark	49.500	117	Pi Pup	2.7060	3800.0	99	39546	No
81	GOM_NL__2PRFIN20090922_203301_000000512082_00415_39547_8614.N1	22-SEP-2009 20:33:01	Tw_i_and_stray	51.000	52	16Bet Cet	2.0370	4500.0	102	39547	No
82	GOM_NL__2PRFIN20090922_204420_000000452082_00415_39547_8615.N1	22-SEP-2009 20:44:20	Bright	45.000	140	88Gam Peg	2.8340	26000.	90	39547	No
83	GOM_NL__2PRFIN20090922_204840_000000422082_00415_39547_8616.N1	22-SEP-2009 20:48:40	Bright	41.500	58	21Alp And	2.0730	11000.	83	39547	No
84	GOM_NL__2PRFIN20090922_205707_000000402082_00415_39547_8617.N1	22-SEP-2009 20:57:07	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	39547	No
85	GOM_NL__2PRFIN20090922_205843_000000412082_00415_39547_8618.N1	22-SEP-2009 20:58:43	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	39547	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.

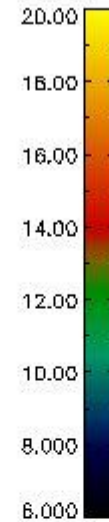
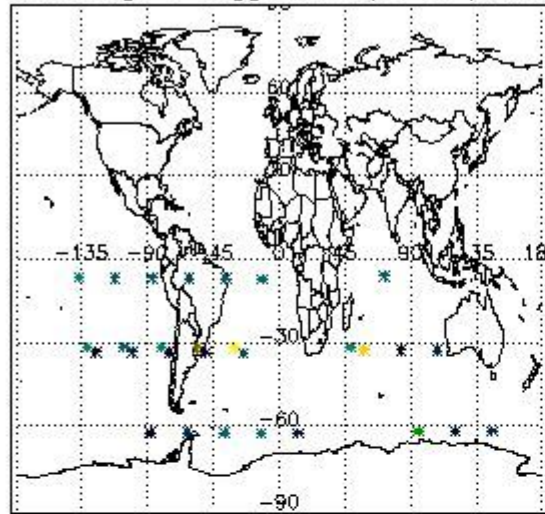
#### 3.1 Plot quality information per product (time dependant)



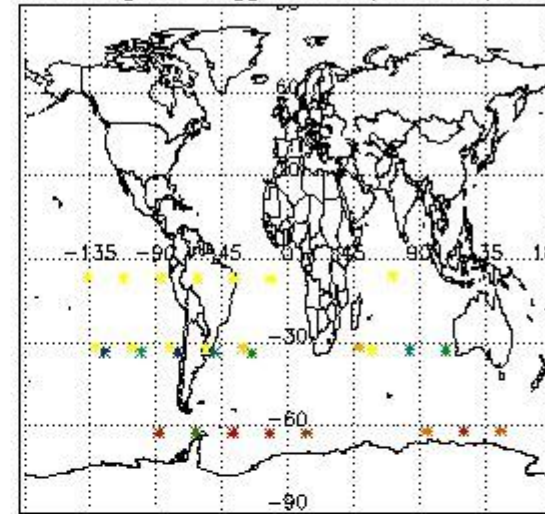
3.2 Plot quality information per product (world map)



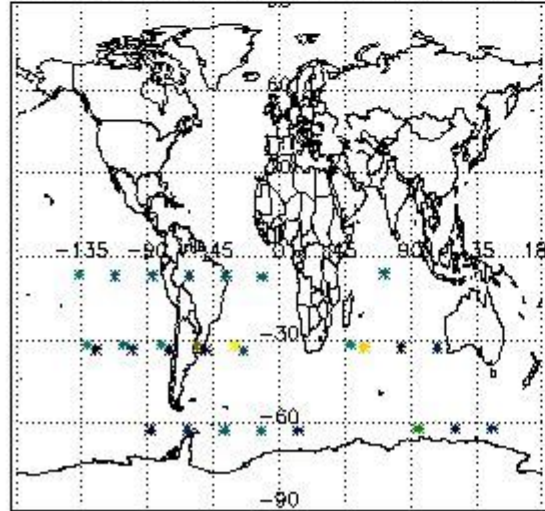
Percentage of flagged data per O3 profile



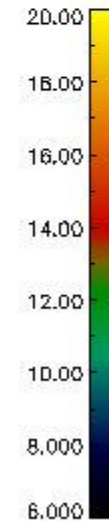
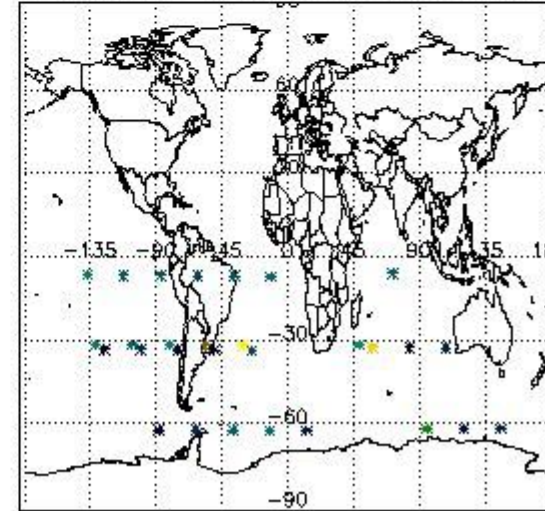
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

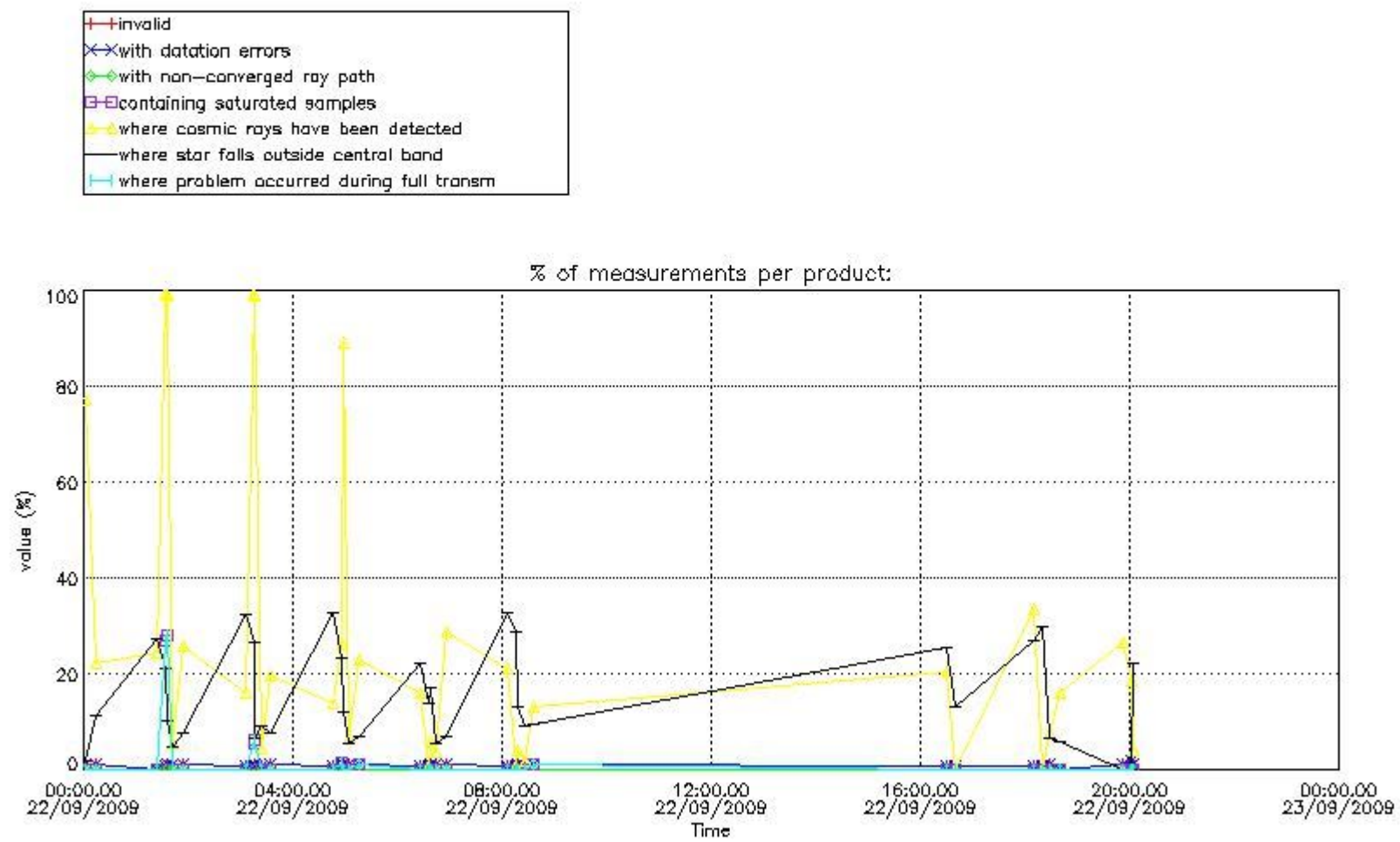


#### 4. Level 1 quality information per product

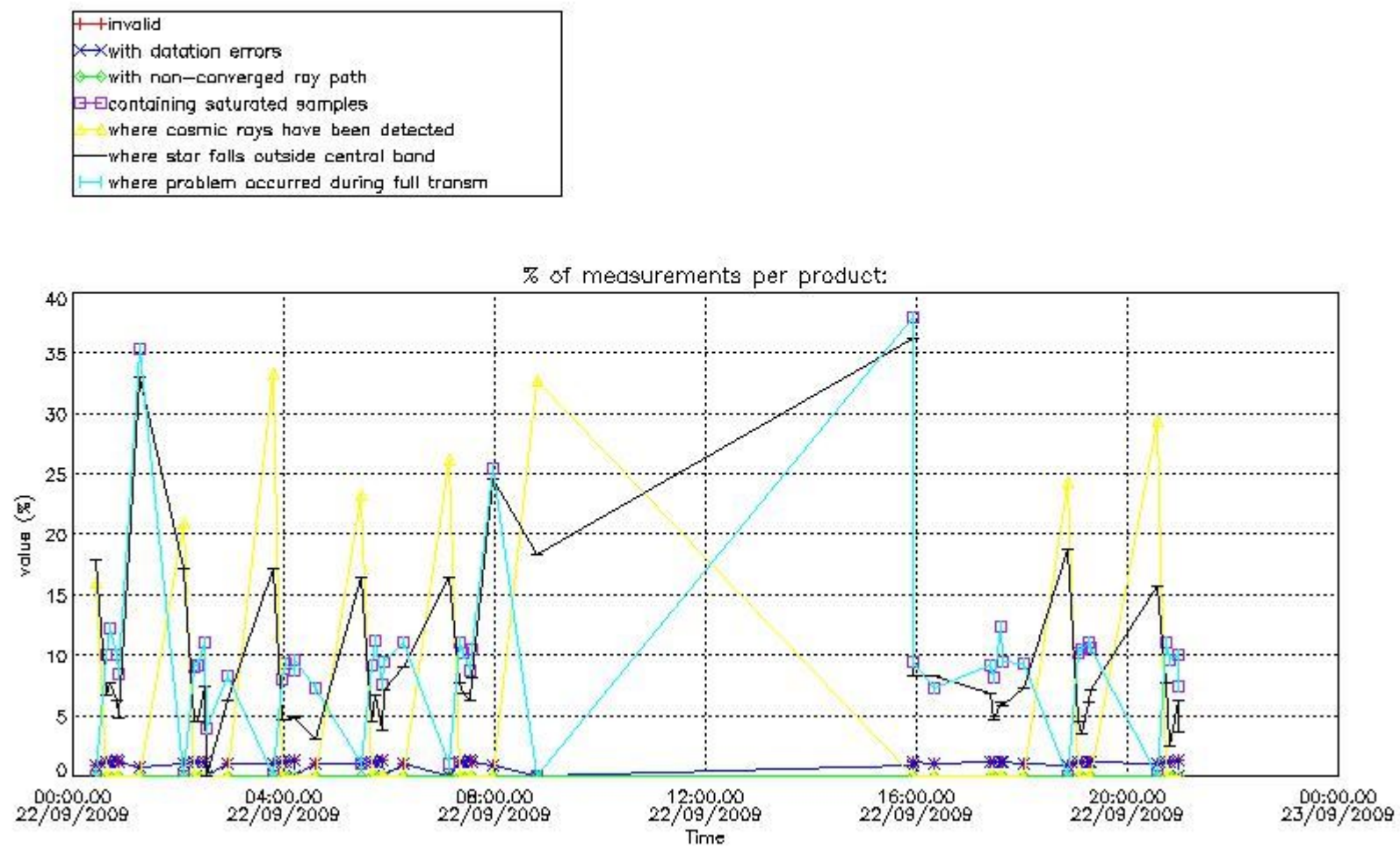
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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): ENVISAT DESCENDING passes

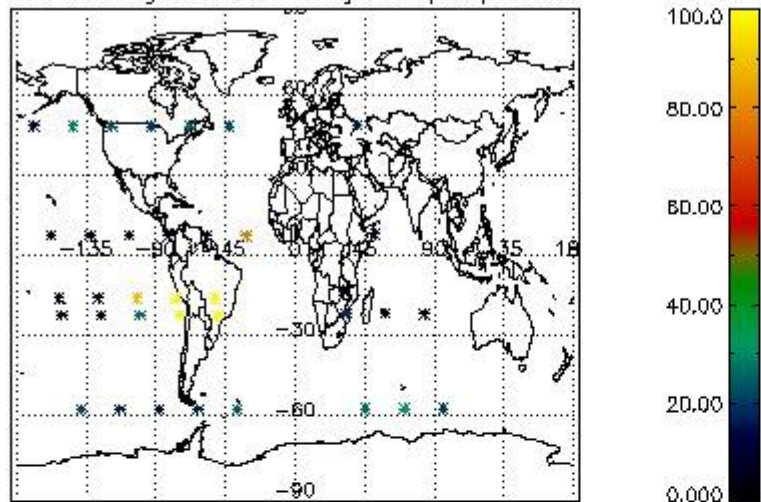


*4.2 Plot quality information per product coming from level 1b processing (world map)*

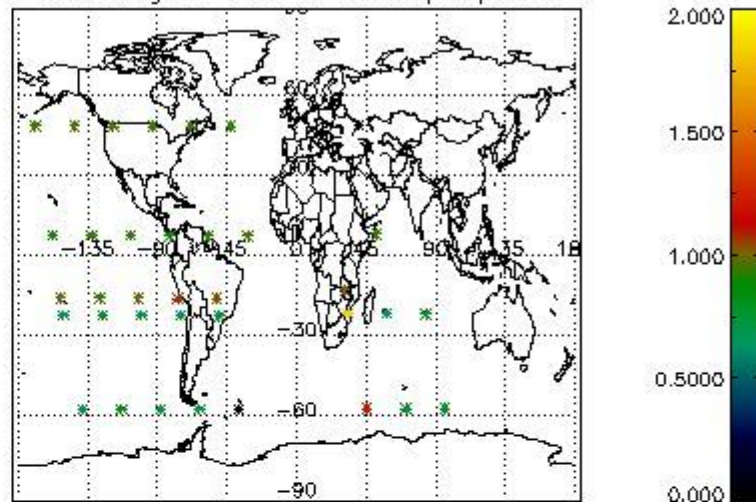
*4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes*



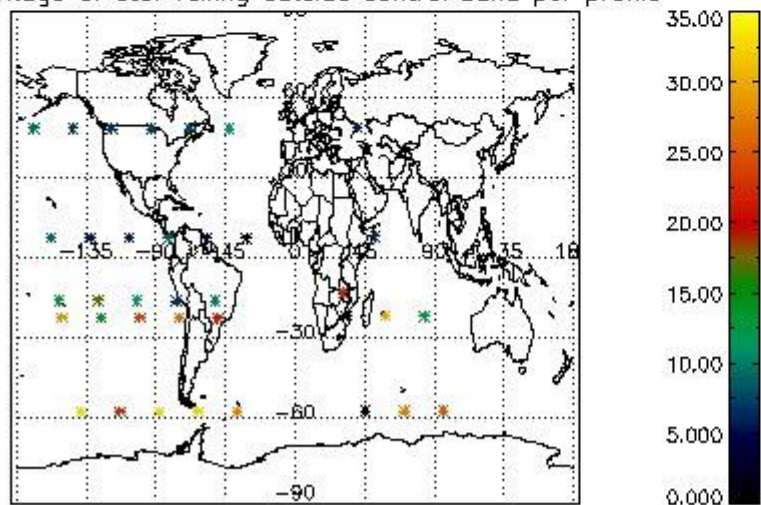
Percentage of cosmic ray hits per profile



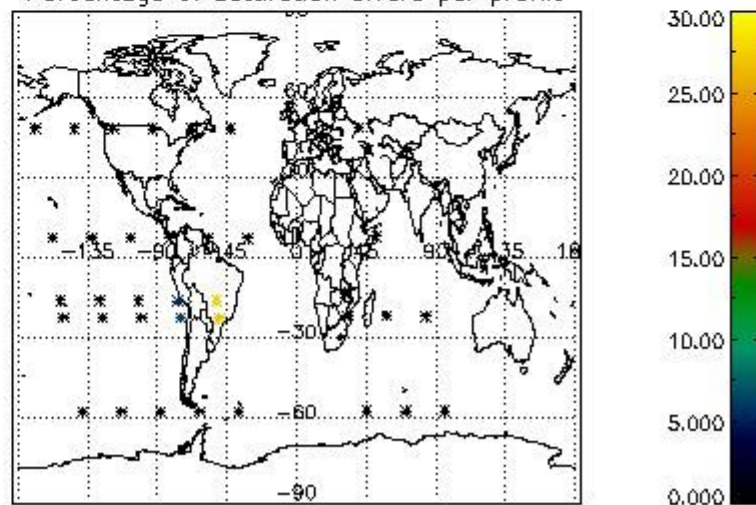
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

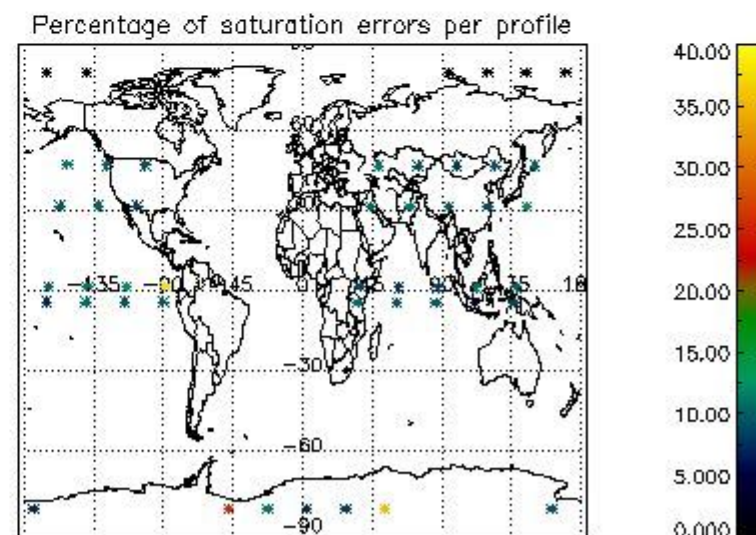
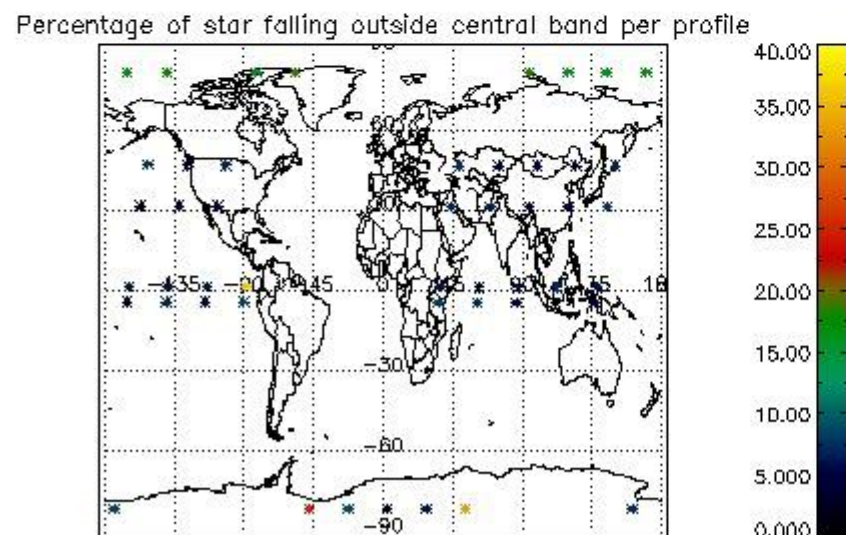
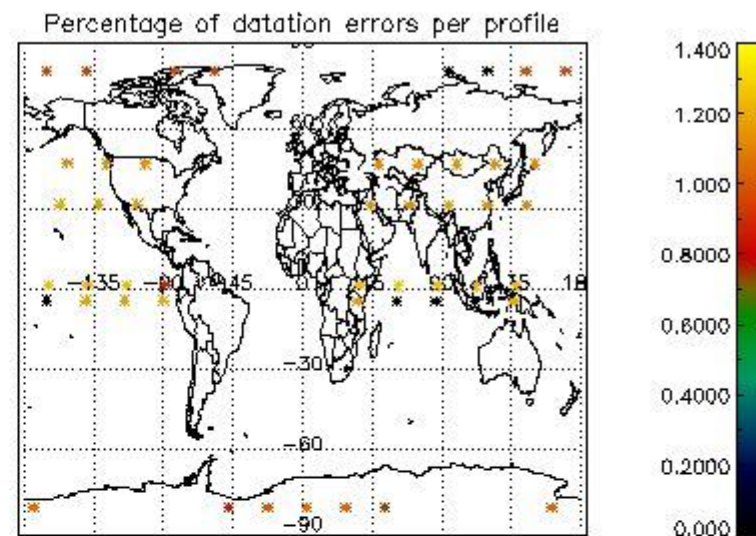
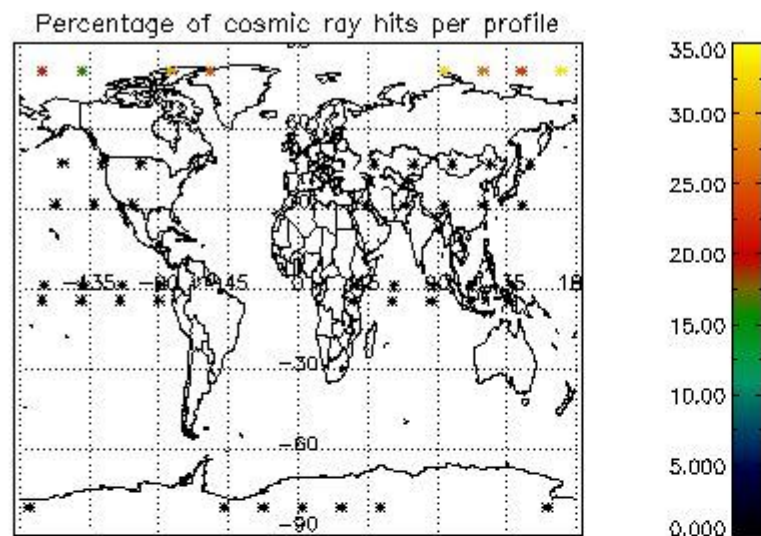


Percentage of saturation errors per profile



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

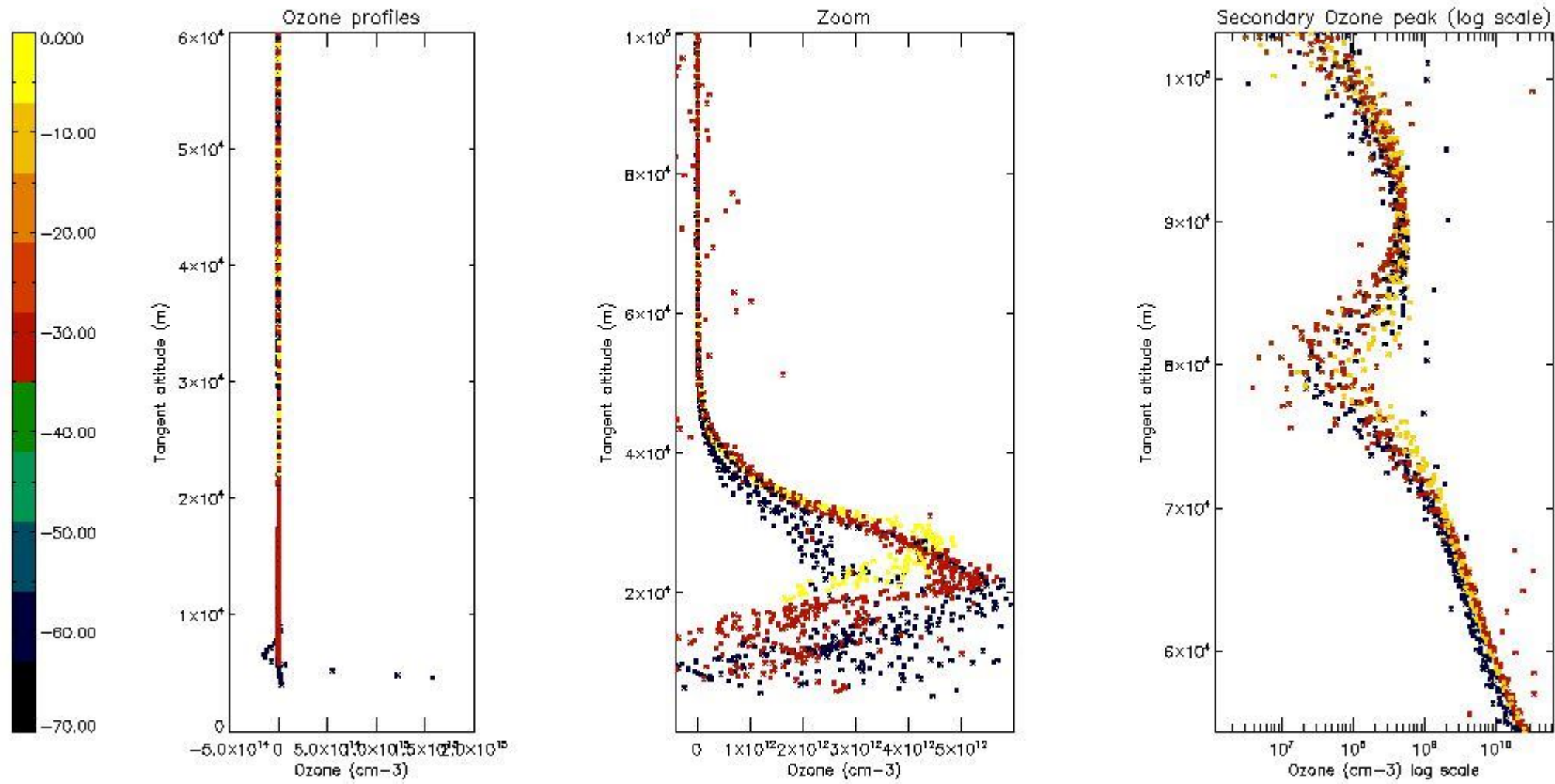
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	40
STD < 20	27

STD < 10	22
STD < 5	19

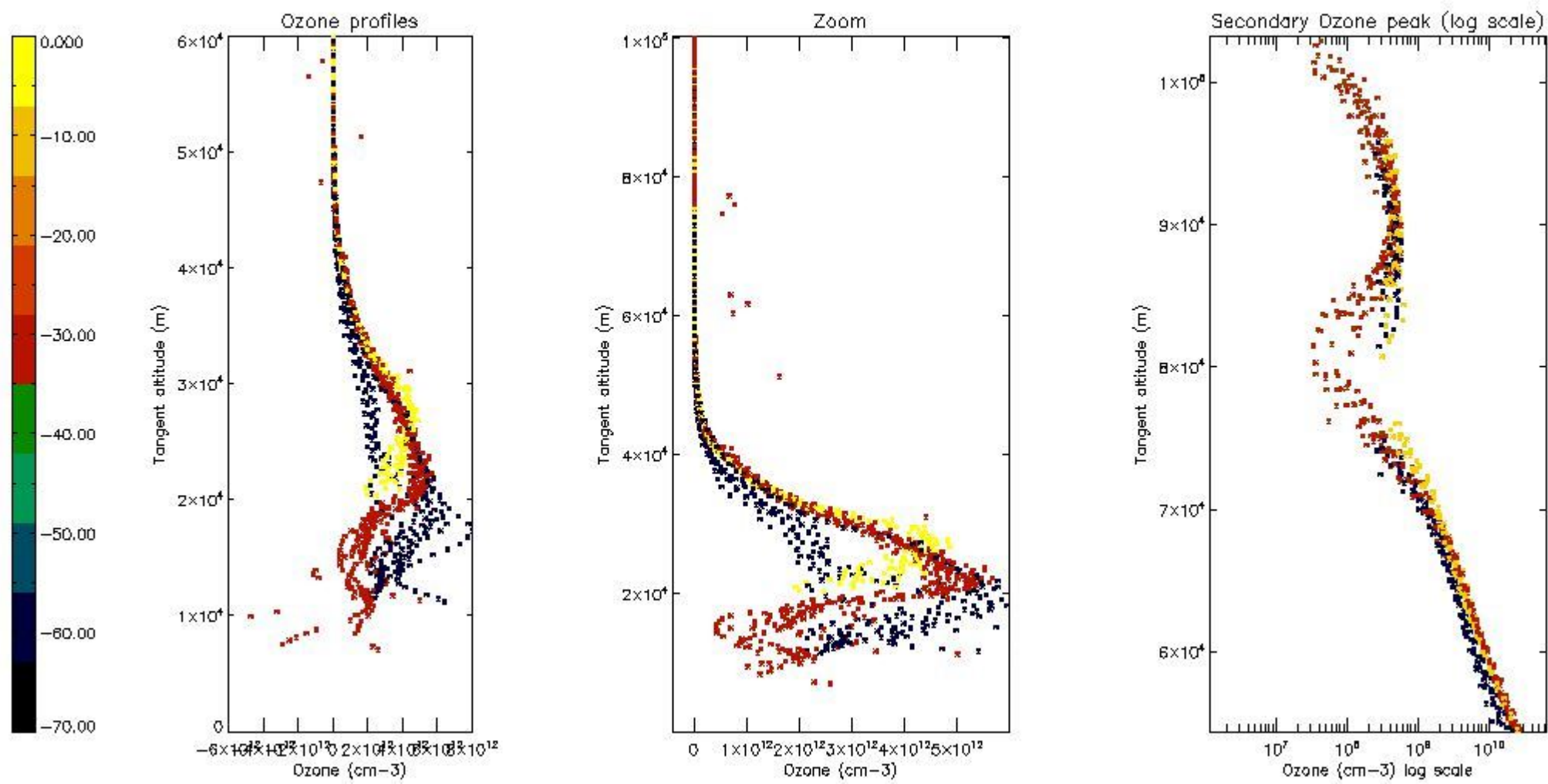
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

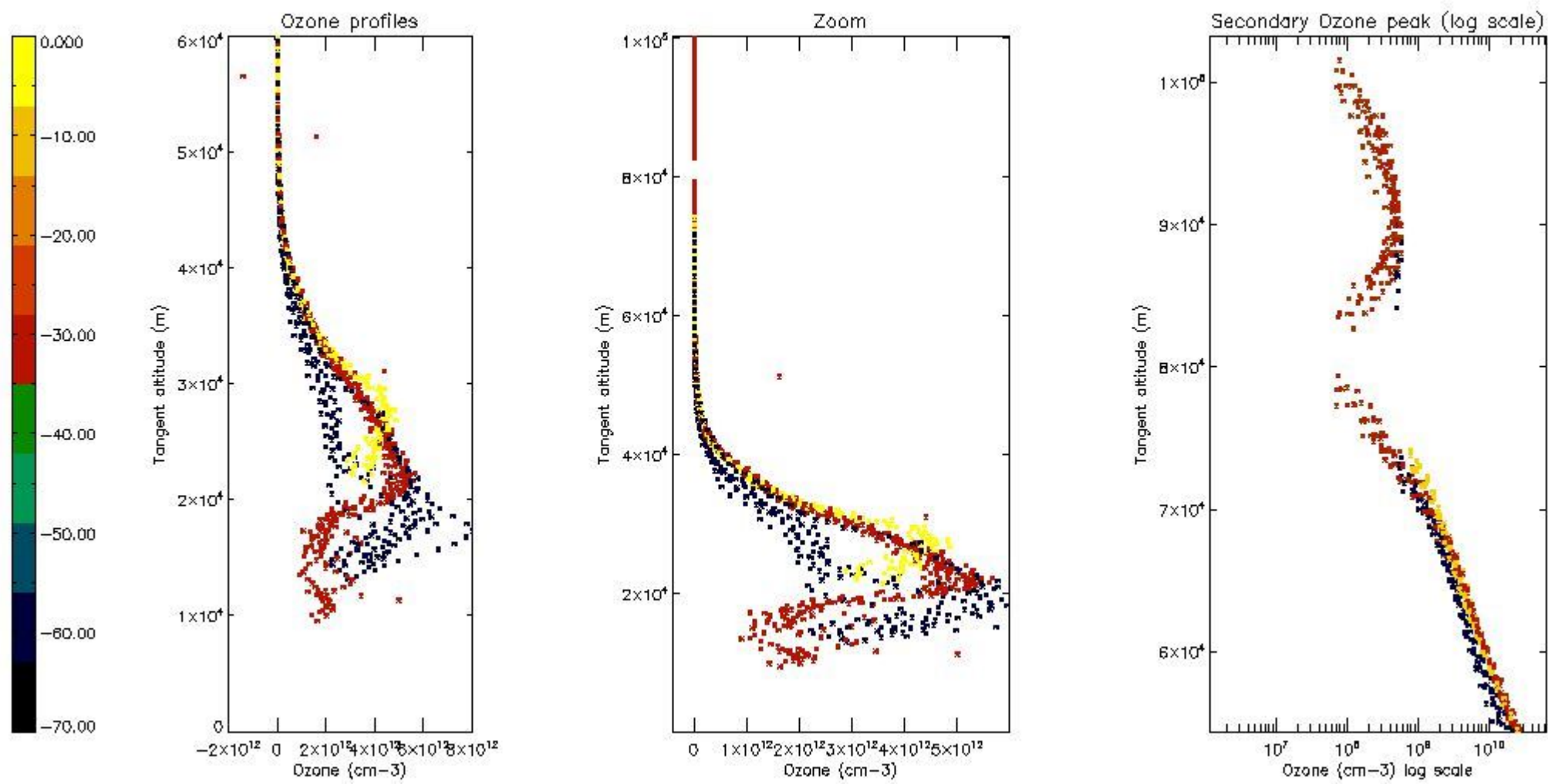
The colorbar represents the latitude.



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

The colorbar represents the latitude.

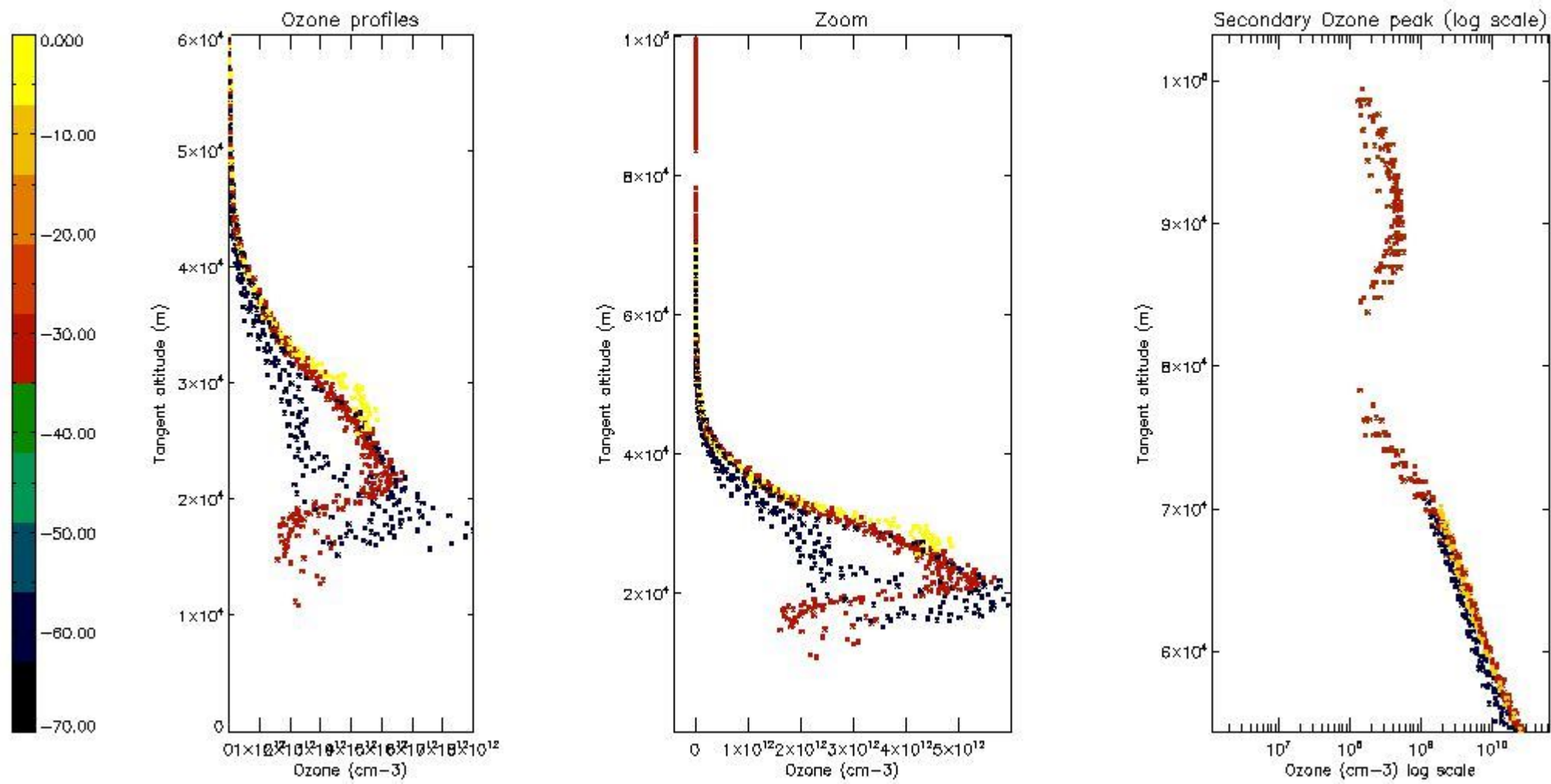




*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

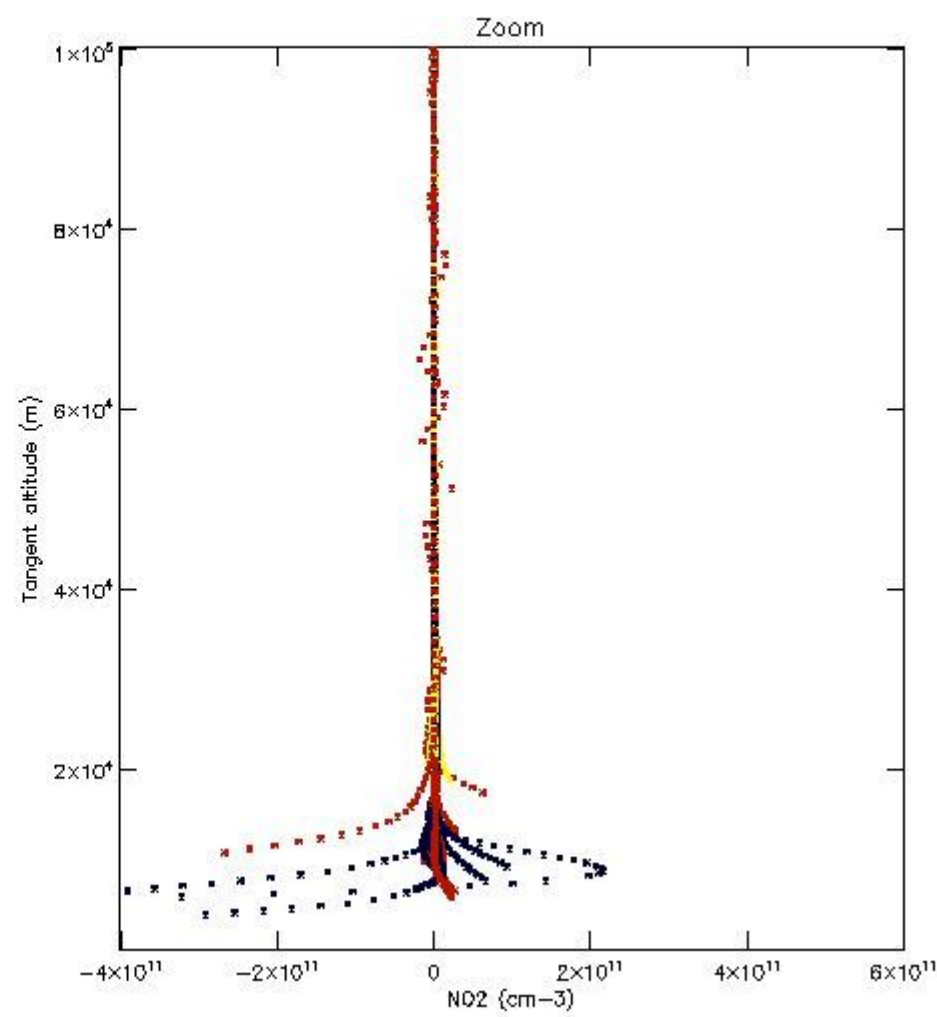
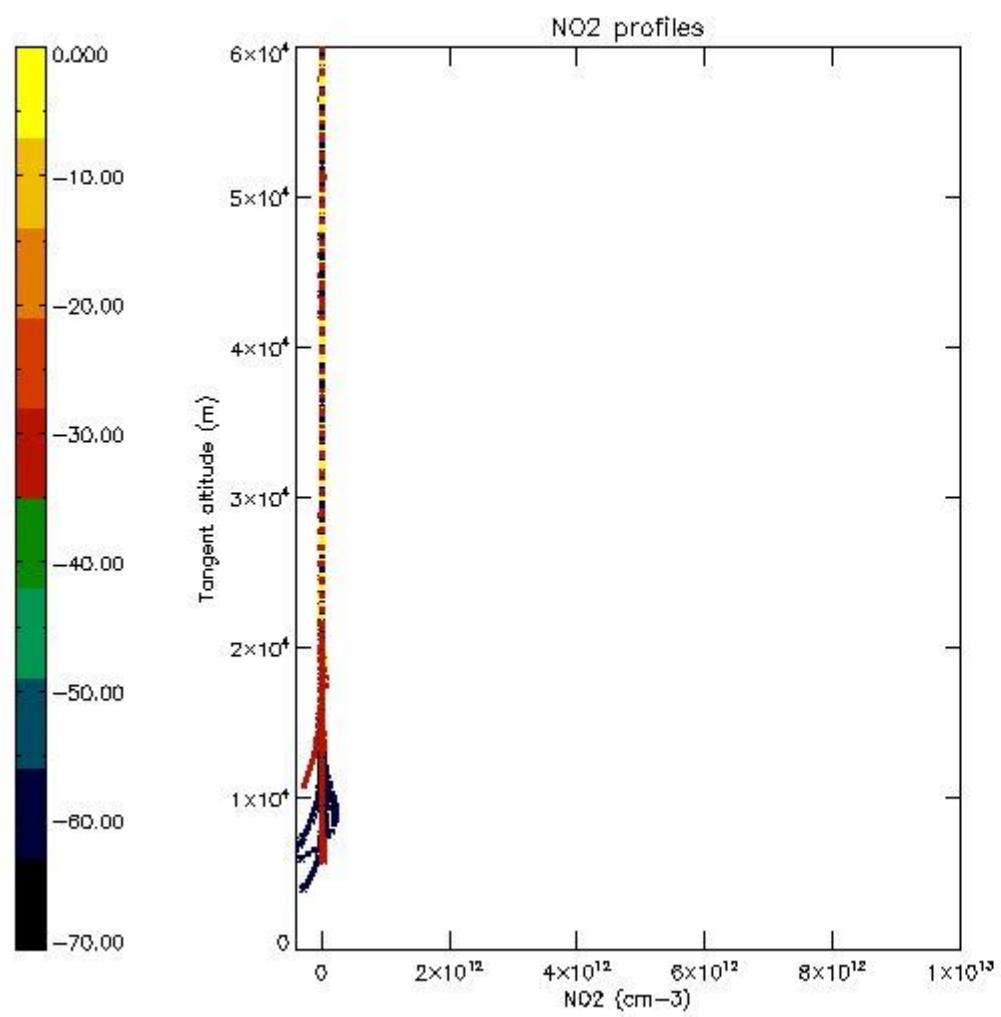
The colorbar represents the latitude.





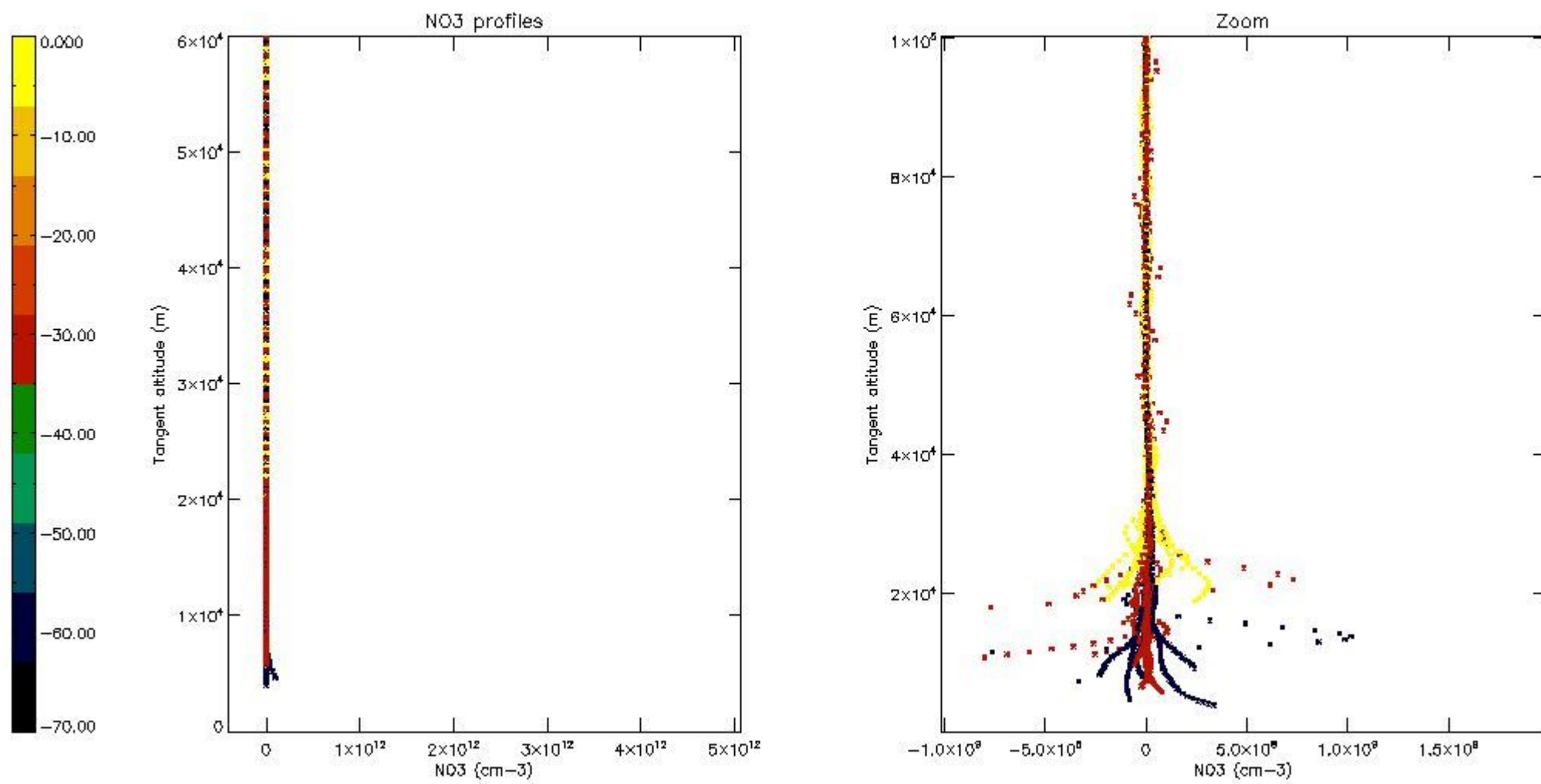
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



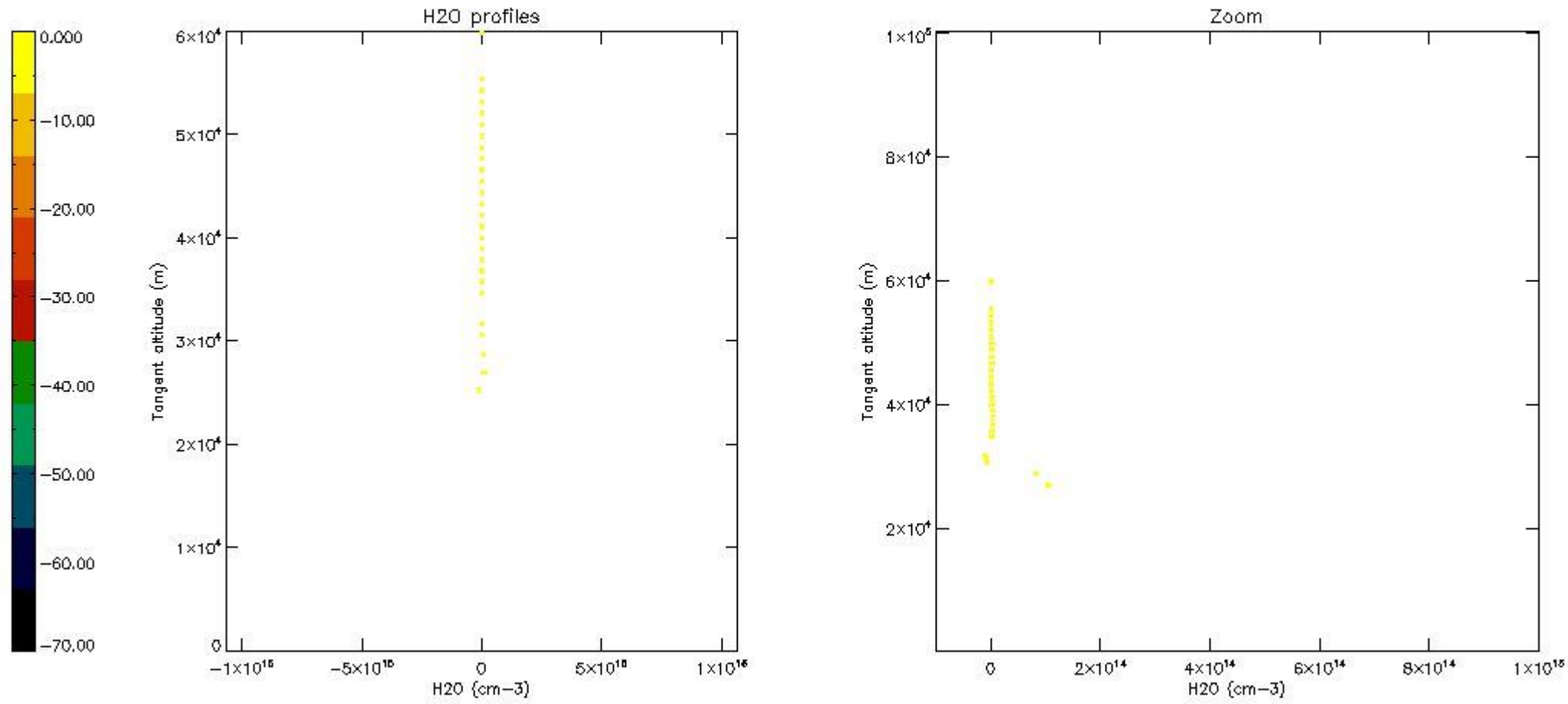
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	22-SEP-2009 00:02:07
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	22-SEP-2009 00:02:07
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	22-SEP-2009 00:02:07



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

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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 12:54:59
Data source version	GOMOS/6.01
Start time of products	22-09-2009 (22SEP2009 00:00:00)
Stop time of products	23-09-2009 (23SEP2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	85
Nb of prods with errors	0

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

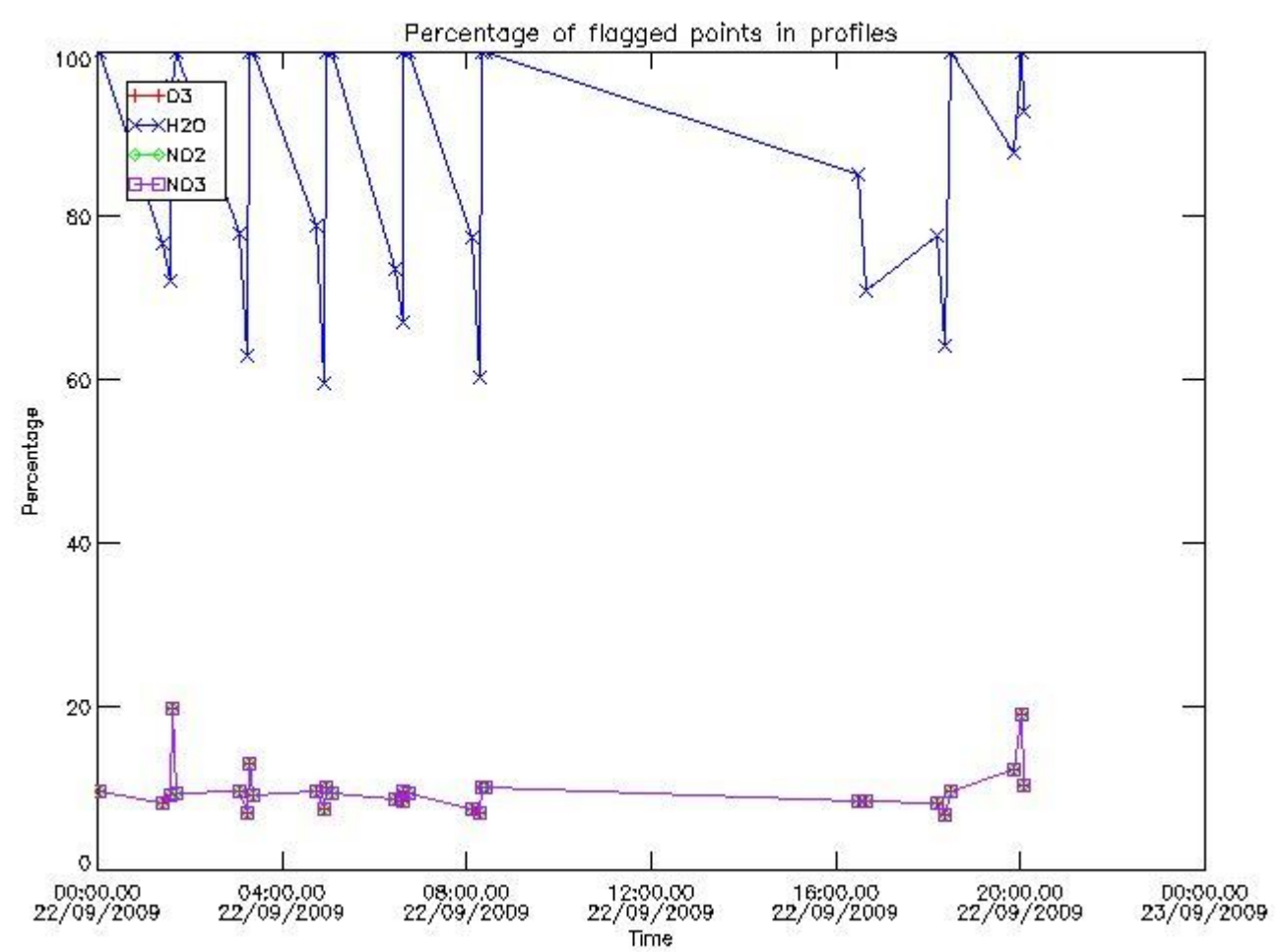
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20090922_000207_000000532082_00403_39535_8411.N1	22-SEP-2009 00:02:07	Dark	52.500	108	Alp Col	2.6520	15200.	105	39535	No
2	GOM_NL__2PRFIN20090922_001339_000000542082_00403_39535_8412.N1	22-SEP-2009 00:13:39	Straylight	54.000	157	The1Eri	2.9060	9300.0	108	39535	No
3	GOM_NL__2PRFIN20090922_002548_000000532082_00403_39535_8413.N1	22-SEP-2009 00:25:48	Twilight_and_stray	53.000	52	16Bet Cet	2.0370	4500.0	106	39535	No
4	GOM_NL__2PRFIN20090922_003714_000000452082_00403_39535_8414.N1	22-SEP-2009 00:37:14	Bright	45.000	140	88Gam Peg	2.8340	26000.	90	39535	No
5	GOM_NL__2PRFIN20090922_004133_000000452082_00403_39535_8415.N1	22-SEP-2009 00:41:33	Bright	45.000	58	21Alp And	2.0730	11000.	90	39535	No
6	GOM_NL__2PRFIN20090922_005000_000000402082_00403_39535_8416.N1	22-SEP-2009 00:50:00	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	39535	No
7	GOM_NL__2PRFIN20090922_005138_000000422082_00403_39535_8417.N1	22-SEP-2009 00:51:38	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	39535	No
8	GOM_NL__2PRFIN20090922_011502_000000682082_00403_39535_8418.N1	22-SEP-2009 01:15:02	Bright	68.000	24	66Alp Gem	1.5800	10200.	136	39535	No
9	GOM_NL__2PRFIN20090922_012424_000000622082_00403_39535_8419.N1	22-SEP-2009 01:24:24	Dark	62.000	8	10Alp CMi	0.40000	6500.0	124	39535	No
10	GOM_NL__2PRFIN20090922_013422_000000672082_00403_39535_8420.N1	22-SEP-2009 01:34:22	Dark	66.500	1	9Alp CMa	-1.4400	11000.	133	39535	No
11	GOM_NL__2PRFIN20090922_013611_000000492082_00403_39535_8421.N1	22-SEP-2009 01:36:11	Dark	48.500	23	21Eps CMa	1.5020	26000.	97	39535	No
12	GOM_NL__2PRFIN20090922_014244_000000542082_00404_39536_8433.N1	22-SEP-2009 01:42:44	Dark	54.000	108	Alp Col	2.6520	15200.	108	39536	No
13	GOM_NL__2PRFIN20090922_015415_000000532082_00404_39536_8434.N1	22-SEP-2009 01:54:15	Straylight	52.500	157	The1Eri	2.9060	9300.0	105	39536	No
14	GOM_NL__2PRFIN20090922_020624_000000532082_00404_39536_8435.N1	22-SEP-2009 02:06:24	Twilight_and_stray	52.500	52	16Bet Cet	2.0370	4500.0	105	39536	No
15	GOM_NL__2PRFIN20090922_021749_000000452082_00404_39536_8436.N1	22-SEP-2009 02:17:49	Bright	44.500	140	88Gam Peg	2.8340	26000.	89	39536	No
16	GOM_NL__2PRFIN20090922_022209_000000442082_00404_39536_8437.N1	22-SEP-2009 02:22:09	Bright	44.000	58	21Alp And	2.0730	11000.	88	39536	No
17	GOM_NL__2PRFIN20090922_023035_000000412082_00404_39536_8438.N1	22-SEP-2009 02:30:35	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	39536	No
18	GOM_NL__2PRFIN20090922_023213_000000382082_00404_39536_8439.N1	22-SEP-2009 02:32:13	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	39536	No
19	GOM_NL__2PRFIN20090922_025538_000000492082_00404_39536_8440.N1	22-SEP-2009 02:55:38	Bright	48.500	24	66Alp Gem	1.5800	10200.	97	39536	No
20	GOM_NL__2PRFIN20090922_030501_000000682082_00404_39536_8441.N1	22-SEP-2009 03:05:01	Dark	68.000	8	10Alp CMi	0.40000	6500.0	136	39536	No
21	GOM_NL__2PRFIN20090922_031500_000000722082_00404_39536_8442.N1	22-SEP-2009 03:15:00	Dark	72.000	1	9Alp CMa	-1.4400	11000.	144	39536	No
22	GOM_NL__2PRFIN20090922_031648_000000472082_00404_39536_8443.N1	22-SEP-2009 03:16:48	Dark	46.500	23	21Eps CMa	1.5020	26000.	93	39536	No
23	GOM_NL__2PRFIN20090922_032322_000000562082_00405_39537_8477.N1	22-SEP-2009 03:23:22	Dark	56.000	108	Alp Col	2.6520	15200.	112	39537	No
24	GOM_NL__2PRFIN20090922_033452_000000532082_00405_39537_8478.N1	22-SEP-2009 03:34:52	Straylight	53.000	157	The1Eri	2.9060	9300.0	106	39537	No
25	GOM_NL__2PRFIN20090922_034700_000000532082_00405_39537_8479.N1	22-SEP-2009 03:47:00	Twilight_and_stray	52.500	52	16Bet Cet	2.0370	4500.0	105	39537	No
26	GOM_NL__2PRFIN20090922_035825_000000442082_00405_39537_8480.N1	22-SEP-2009 03:58:25	Bright	43.500	140	88Gam Peg	2.8340	26000.	87	39537	No
27	GOM_NL__2PRFIN20090922_040244_000000432082_00405_39537_8481.N1	22-SEP-2009 04:02:44	Bright	43.000	58	21Alp And	2.0730	11000.	86	39537	No
28	GOM_NL__2PRFIN20090922_041111_000000402082_00405_39537_8482.N1	22-SEP-2009 04:11:11	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	39537	No
29	GOM_NL__2PRFIN20090922_041248_000000422082_00405_39537_8483.N1	22-SEP-2009 04:12:48	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	39537	No
30	GOM_NL__2PRFIN20090922_043614_000000482082_00405_39537_8484.N1	22-SEP-2009 04:36:14	Bright	48.000	24	66Alp Gem	1.5800	10200.	96	39537	No
31	GOM_NL__2PRFIN20090922_044537_000000692082_00405_39537_8485.N1	22-SEP-2009 04:45:37	Dark	69.000	8	10Alp CMi	0.40000	6500.0	138	39537	No
32	GOM_NL__2PRFIN20090922_045537_000000692082_00405_39537_8486.N1	22-SEP-2009 04:55:37	Dark	68.500	1	9Alp CMa	-1.4400	11000.	137	39537	No
33	GOM_NL__2PRFIN20090922_045725_000000502082_00405_39537_8487.N1	22-SEP-2009 04:57:25	Dark	50.000	23	21Eps CMa	1.5020	26000.	100	39537	No
34	GOM_NL__2PRFIN20090922_050359_000000542082_00406_39538_8492.N1	22-SEP-2009 05:03:59	Dark	54.000	108	Alp Col	2.6520	15200.	108	39538	No
35	GOM_NL__2PRFIN20090922_051529_000000522082_00406_39538_8493.N1	22-SEP-2009 05:15:29	Straylight	52.000	157	The1Eri	2.9060	9300.0	104	39538	No
36	GOM_NL__2PRFIN20090922_052737_000000522082_00406_39538_8494.N1	22-SEP-2009 05:27:37	Twilight_and_stray	51.500	52	16Bet Cet	2.0370	4500.0	103	39538	No
37	GOM_NL__2PRFIN20090922_053900_000000442082_00406_39538_8495.N1	22-SEP-2009 05:39:00	Bright	44.000	140	88Gam Peg	2.8340	26000.	88	39538	No
38	GOM_NL__2PRFIN20090922_054320_000000452082_00406_39538_8496.N1	22-SEP-2009 05:43:20	Bright	44.500	58	21Alp And	2.0730	11000.	89	39538	No
39	GOM_NL__2PRFIN20090922_055147_000000402082_00406_39538_8497.N1	22-SEP-2009 05:51:47	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	39538	No
40	GOM_NL__2PRFIN20090922_055324_000000422082_00406_39538_8498.N1	22-SEP-2009 05:53:24	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	39538	No
41	GOM_NL__2PRFIN20090922_061650_000000502082_00406_39538_8499.N1	22-SEP-2009 06:16:50	Bright	50.000	24	66Alp Gem	1.5800	10200.	100	39538	No
42	GOM_NL__2PRFIN20090922_062614_000000592082_00406_39538_8500.N1	22-SEP-2009 06:26:14	Dark	59.000	8	10Alp CMi	0.40000	6500.0	118	39538	No

43	GOM_NL__2PRFIN20090922_063614_000000612082_00406_39538_8501.N1	22-SEP-2009 06:36:14	Dark	61.000	1	9Alp CMa	-1.4400	11000.	122	39538	No
44	GOM_NL__2PRFIN20090922_063802_000000532082_00406_39538_8502.N1	22-SEP-2009 06:38:02	Dark	53.000	23	21Eps CMa	1.5020	26000.	106	39538	No
45	GOM_NL__2PRFIN20090922_064436_000000542082_00407_39539_8500.N1	22-SEP-2009 06:44:36	Dark	54.000	108	Alp Col	2.6520	15200.	108	39539	No
46	GOM_NL__2PRFIN20090922_065606_000000522082_00407_39539_8501.N1	22-SEP-2009 06:56:06	Straylight	52.000	157	The1Eri	2.9060	9300.0	104	39539	No
47	GOM_NL__2PRFIN20090922_070813_000000522082_00407_39539_8502.N1	22-SEP-2009 07:08:13	Twilight	51.500	52	16Bet Cet	2.0370	4500.0	103	39539	No
48	GOM_NL__2PRFIN20090922_071936_000000452082_00407_39539_8503.N1	22-SEP-2009 07:19:36	Bright	45.000	140	88Gam Peg	2.8340	26000.	90	39539	No
49	GOM_NL__2PRFIN20090922_072355_000000442082_00407_39539_8504.N1	22-SEP-2009 07:23:55	Bright	44.000	58	21Alp And	2.0730	11000.	88	39539	No
50	GOM_NL__2PRFIN20090922_073222_000000402082_00407_39539_8505.N1	22-SEP-2009 07:32:22	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	39539	No
51	GOM_NL__2PRFIN20090922_073359_000000432082_00407_39539_8506.N1	22-SEP-2009 07:33:59	Bright	43.000	76	27Gam Cas	2.3000	30000.	86	39539	No
52	GOM_NL__2PRFIN20090922_075726_000000592082_00407_39539_8507.N1	22-SEP-2009 07:57:26	Bright	59.000	24	66Alp Gem	1.5800	10200.	118	39539	No
53	GOM_NL__2PRFIN20090922_080651_000000692082_00407_39539_8508.N1	22-SEP-2009 08:06:51	Dark	69.000	8	10Alp CMI	0.40000	6500.0	138	39539	No
54	GOM_NL__2PRFIN20090922_081652_000000742082_00407_39539_8509.N1	22-SEP-2009 08:16:52	Dark	73.500	1	9Alp CMa	-1.4400	11000.	147	39539	No
55	GOM_NL__2PRFIN20090922_081839_000000502082_00407_39539_8510.N1	22-SEP-2009 08:18:39	Dark	50.000	23	21Eps CMa	1.5020	26000.	100	39539	No
56	GOM_NL__2PRFIN20090922_082514_000000562082_00408_39540_8514.N1	22-SEP-2009 08:25:14	Dark	55.500	108	Alp Col	2.6520	15200.	111	39540	No
57	GOM_NL__2PRFIN20090922_083643_000000532082_00408_39540_8515.N1	22-SEP-2009 08:36:43	Straylight	53.000	157	The1Eri	2.9060	9300.0	106	39540	No
58	GOM_NL__2PRFIN20090922_084849_000000522082_00408_39540_8516.N1	22-SEP-2009 08:48:49	Twilight	52.000	52	16Bet Cet	2.0370	4500.0	104	39540	No
59	GOM_NL__2PRFIN20090922_155520_000000582082_00412_39544_8569.N1	22-SEP-2009 15:55:20	Bright	58.000	74	11Bet Cas	2.2680	6600.0	116	39544	No
60	GOM_NL__2PRFIN20090922_155656_000000422082_00412_39544_8570.N1	22-SEP-2009 15:56:56	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	39544	No
61	GOM_NL__2PRFIN20090922_162027_000000482082_00412_39544_8571.N1	22-SEP-2009 16:20:27	Bright	48.000	24	66Alp Gem	1.5800	10200.	96	39544	No
62	GOM_NL__2PRFIN20090922_162953_000000612082_00412_39544_8572.N1	22-SEP-2009 16:29:53	Dark	61.000	8	10Alp CMI	0.40000	6500.0	122	39544	No
63	GOM_NL__2PRFIN20090922_163958_000000612082_00412_39544_8573.N1	22-SEP-2009 16:39:58	Dark	60.500	1	9Alp CMa	-1.4400	11000.	121	39544	No
64	GOM_NL__2PRFIN20090922_172309_000000442082_00413_39545_8586.N1	22-SEP-2009 17:23:09	Bright	44.000	140	88Gam Peg	2.8340	26000.	88	39545	No
65	GOM_NL__2PRFIN20090922_172728_000000432082_00413_39545_8587.N1	22-SEP-2009 17:27:28	Bright	43.000	58	21Alp And	2.0730	11000.	86	39545	No
66	GOM_NL__2PRFIN20090922_173555_000000412082_00413_39545_8588.N1	22-SEP-2009 17:35:55	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	39545	No
67	GOM_NL__2PRFIN20090922_173732_000000432082_00413_39545_8589.N1	22-SEP-2009 17:37:32	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	39545	No
68	GOM_NL__2PRFIN20090922_180103_000000492082_00413_39545_8590.N1	22-SEP-2009 18:01:03	Bright	48.500	24	66Alp Gem	1.5800	10200.	97	39545	No
69	GOM_NL__2PRFIN20090922_181030_000000632082_00413_39545_8591.N1	22-SEP-2009 18:10:30	Dark	63.000	8	10Alp CMI	0.40000	6500.0	126	39545	No
70	GOM_NL__2PRFIN20090922_182036_000000762082_00413_39545_8592.N1	22-SEP-2009 18:20:36	Dark	75.500	1	9Alp CMa	-1.4400	11000.	151	39545	No
71	GOM_NL__2PRFIN20090922_182858_000000542082_00414_39546_8600.N1	22-SEP-2009 18:28:58	Dark	53.500	108	Alp Col	2.6520	15200.	107	39546	No
72	GOM_NL__2PRFIN20090922_184024_000000512082_00414_39546_8601.N1	22-SEP-2009 18:40:24	Straylight	50.500	157	The1Eri	2.9060	9300.0	101	39546	No
73	GOM_NL__2PRFIN20090922_185225_000000542082_00414_39546_8602.N1	22-SEP-2009 18:52:25	Twilight	53.500	52	16Bet Cet	2.0370	4500.0	107	39546	No
74	GOM_NL__2PRFIN20090922_190345_000000442082_00414_39546_8603.N1	22-SEP-2009 19:03:45	Bright	44.000	140	88Gam Peg	2.8340	26000.	88	39546	No
75	GOM_NL__2PRFIN20090922_190804_000000432082_00414_39546_8604.N1	22-SEP-2009 19:08:04	Bright	43.000	58	21Alp And	2.0730	11000.	86	39546	No
76	GOM_NL__2PRFIN20090922_191631_000000412082_00414_39546_8605.N1	22-SEP-2009 19:16:31	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	39546	No
77	GOM_NL__2PRFIN20090922_191807_000000432082_00414_39546_8606.N1	22-SEP-2009 19:18:07	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	39546	No
78	GOM_NL__2PRFIN20090922_195106_000000422082_00414_39546_8607.N1	22-SEP-2009 19:51:06	Dark	41.500	8	10Alp CMI	0.40000	6500.0	83	39546	No
79	GOM_NL__2PRFIN20090922_200113_000000272082_00414_39546_8608.N1	22-SEP-2009 20:01:13	Dark	27.000	1	9Alp CMa	-1.4400	11000.	54	39546	No
80	GOM_NL__2PRFIN20090922_200340_000000502082_00414_39546_8609.N1	22-SEP-2009 20:03:40	Dark	49.500	117	Pi Pup	2.7060	3800.0	99	39546	No
81	GOM_NL__2PRFIN20090922_203301_000000512082_00415_39547_8614.N1	22-SEP-2009 20:33:01	Twilight	51.000	52	16Bet Cet	2.0370	4500.0	102	39547	No
82	GOM_NL__2PRFIN20090922_204420_000000452082_00415_39547_8615.N1	22-SEP-2009 20:44:20	Bright	45.000	140	88Gam Peg	2.8340	26000.	90	39547	No
83	GOM_NL__2PRFIN20090922_204840_000000422082_00415_39547_8616.N1	22-SEP-2009 20:48:40	Bright	41.500	58	21Alp And	2.0730	11000.	83	39547	No
84	GOM_NL__2PRFIN20090922_205707_000000402082_00415_39547_8617.N1	22-SEP-2009 20:57:07	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	39547	No
85	GOM_NL__2PRFIN20090922_205843_000000412082_00415_39547_8618.N1	22-SEP-2009 20:58:43	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	39547	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.

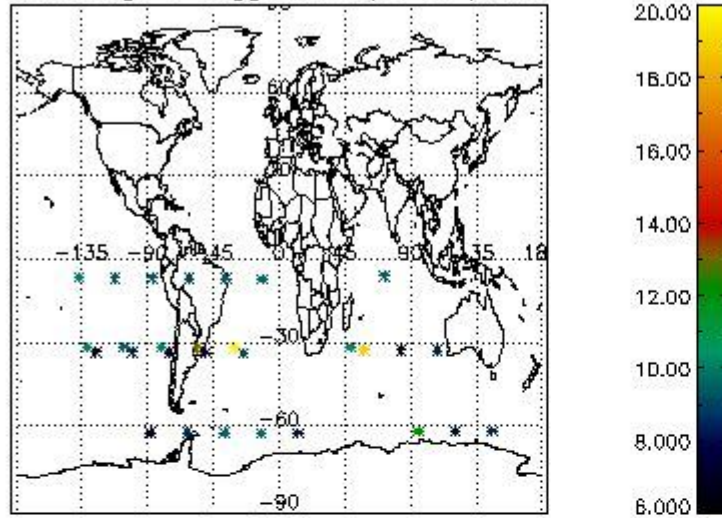
#### 3.1 Plot quality information per product (time dependant)



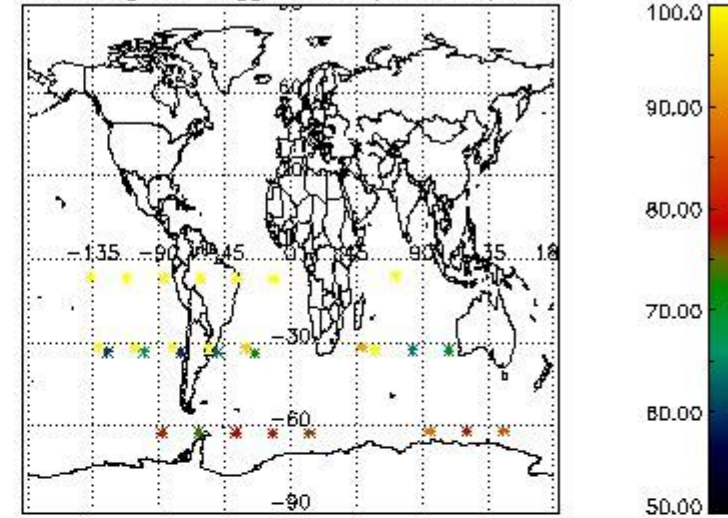
3.2 Plot quality information per product (world map)



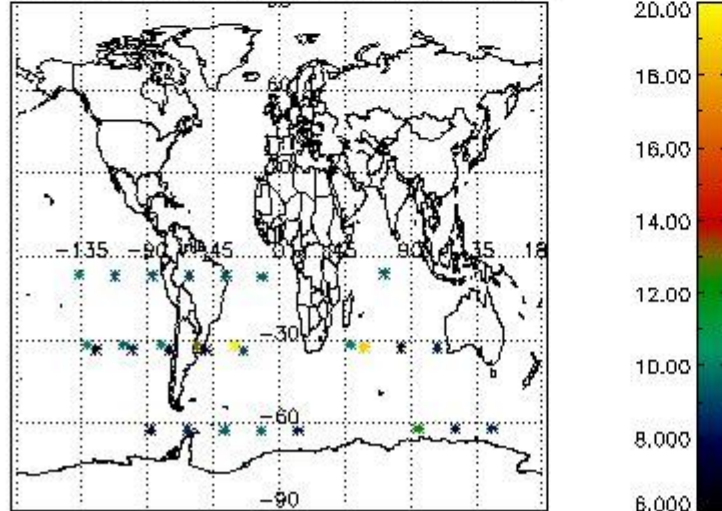
Percentage of flagged data per O3 profile



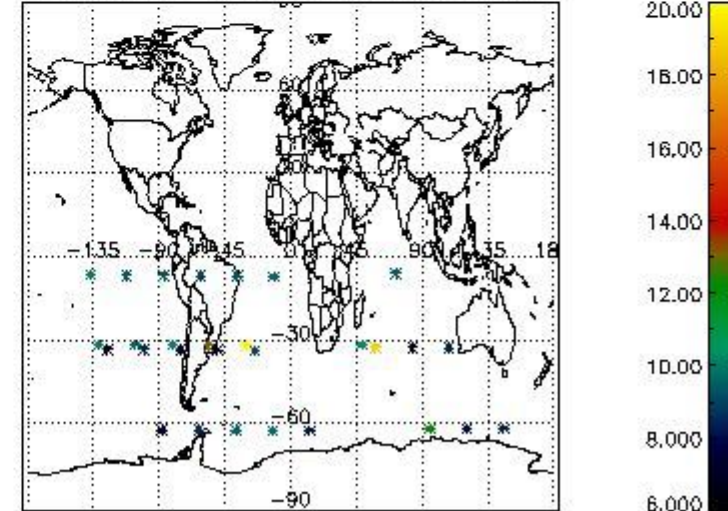
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

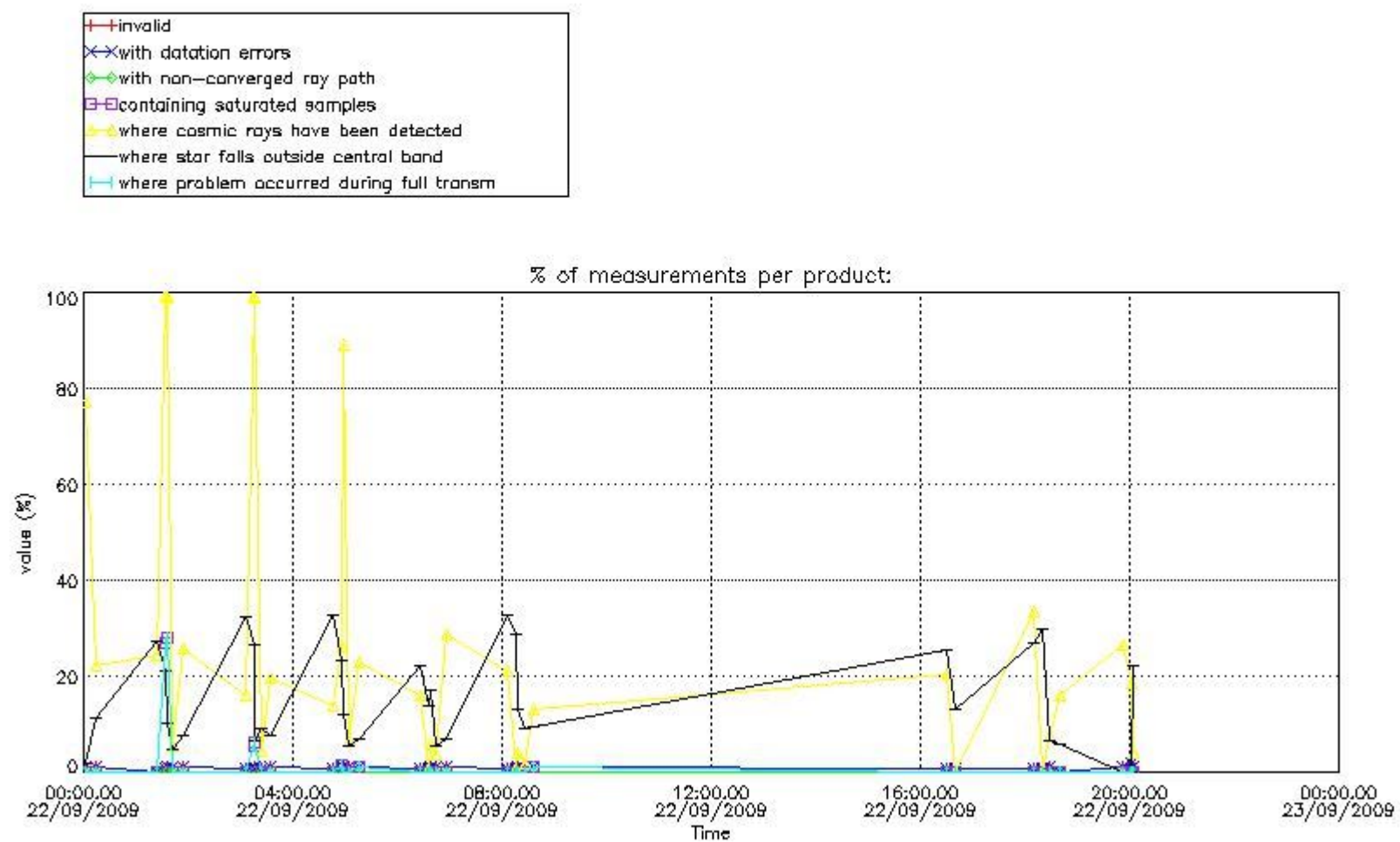


#### 4. Level 1 quality information per product

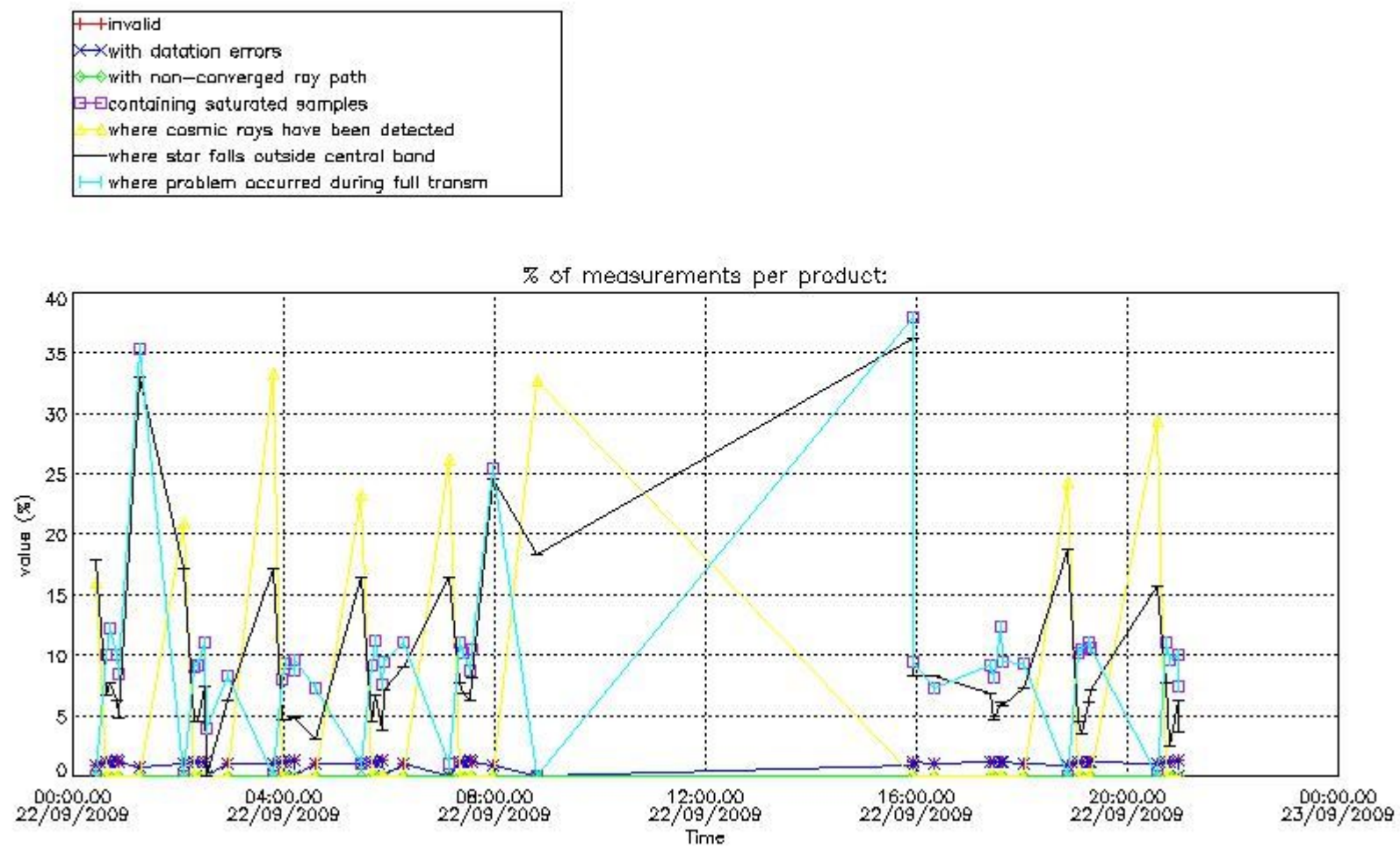
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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): ENVISAT DESCENDING passes

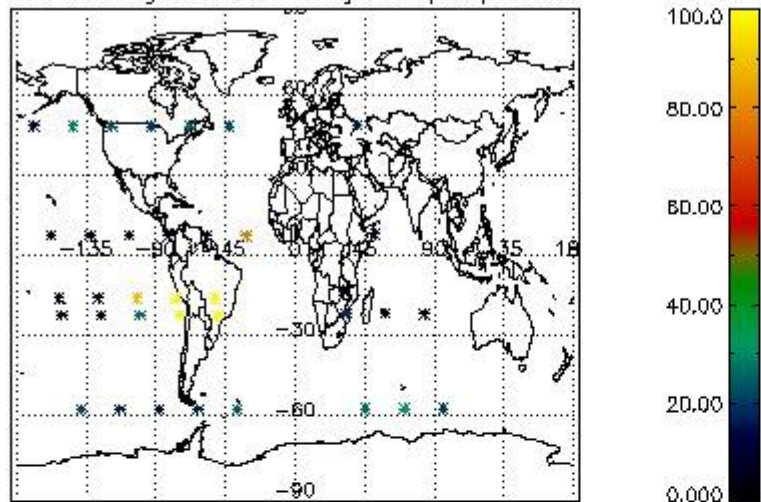


*4.2 Plot quality information per product coming from level 1b processing (world map)*

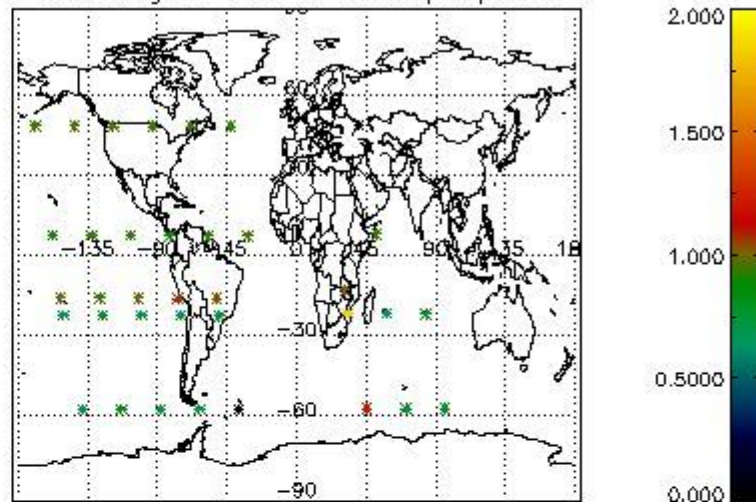
*4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes*



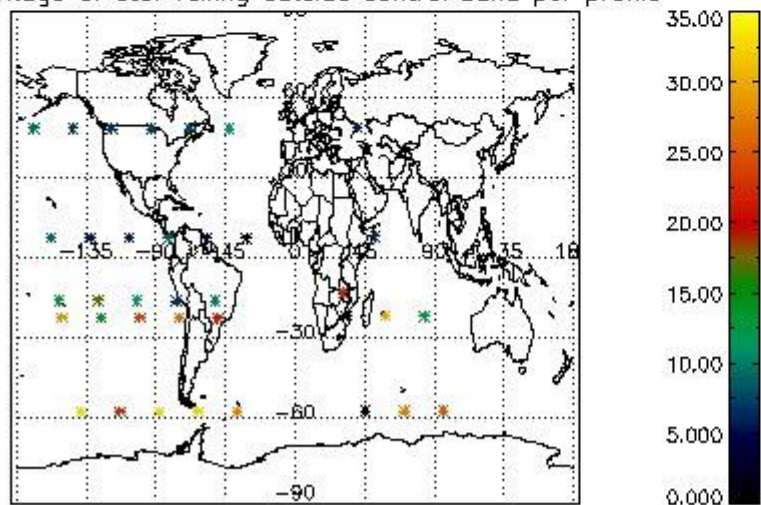
Percentage of cosmic ray hits per profile



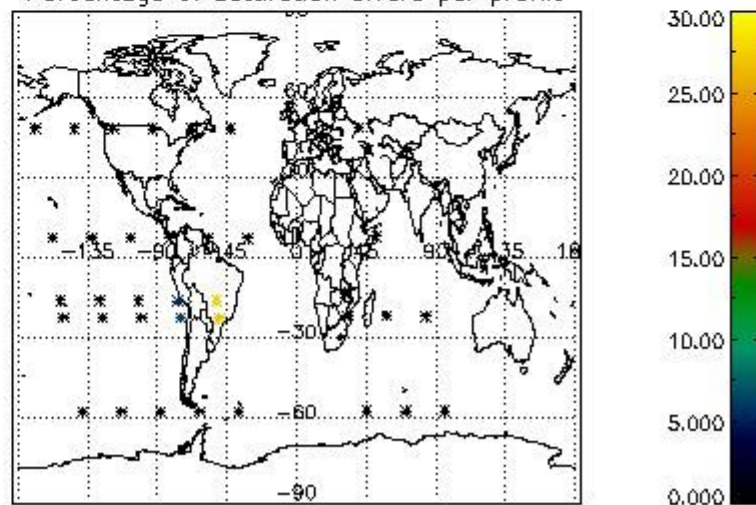
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

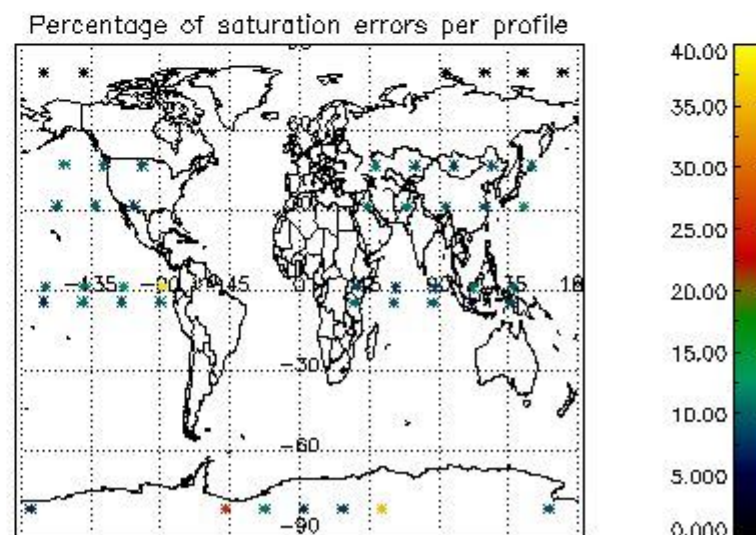
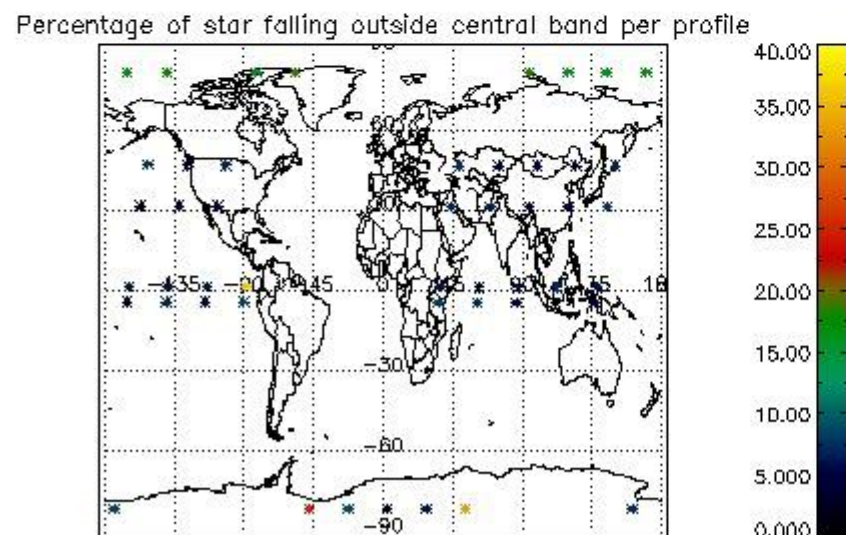
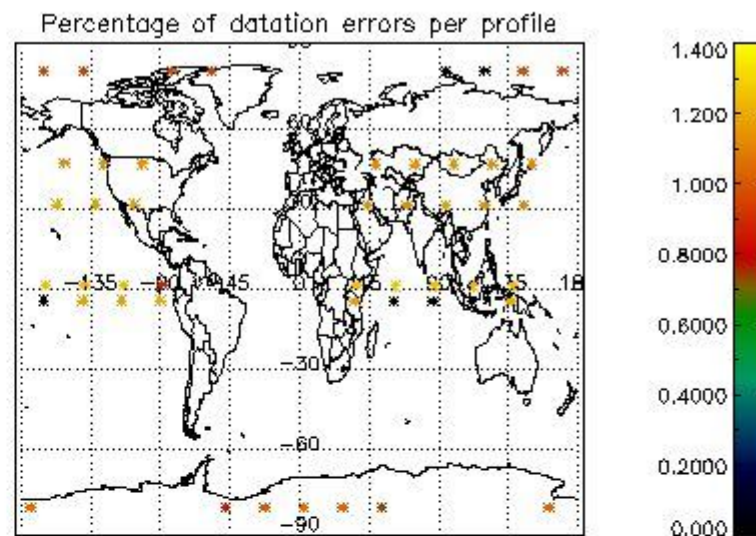
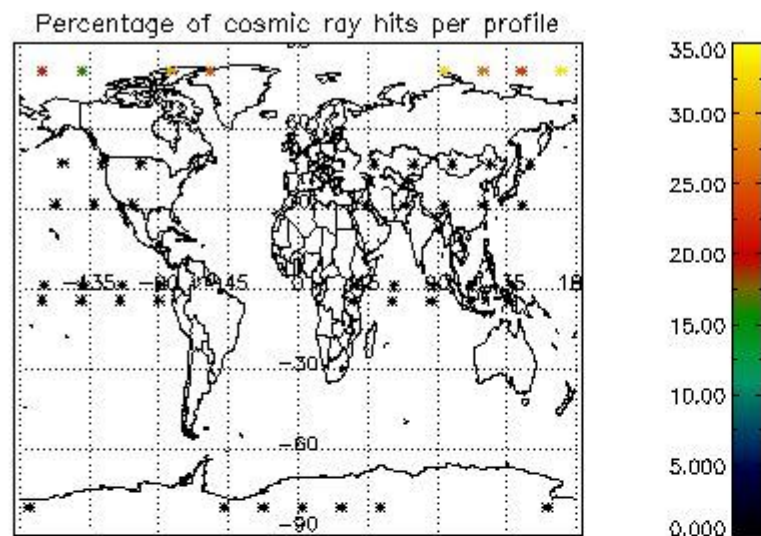


Percentage of saturation errors per profile



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

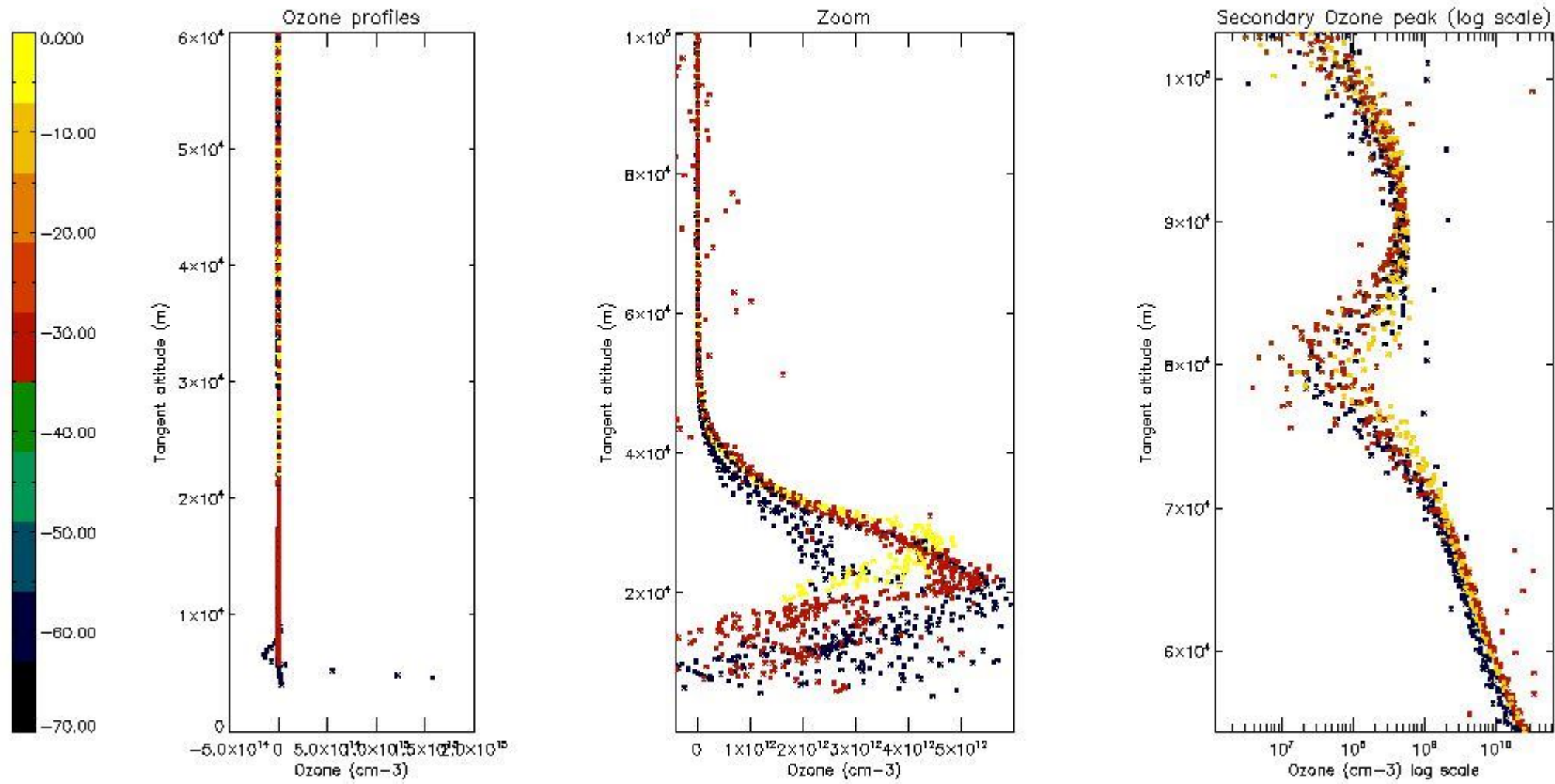
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	40
STD < 20	27

STD < 10	22
STD < 5	19

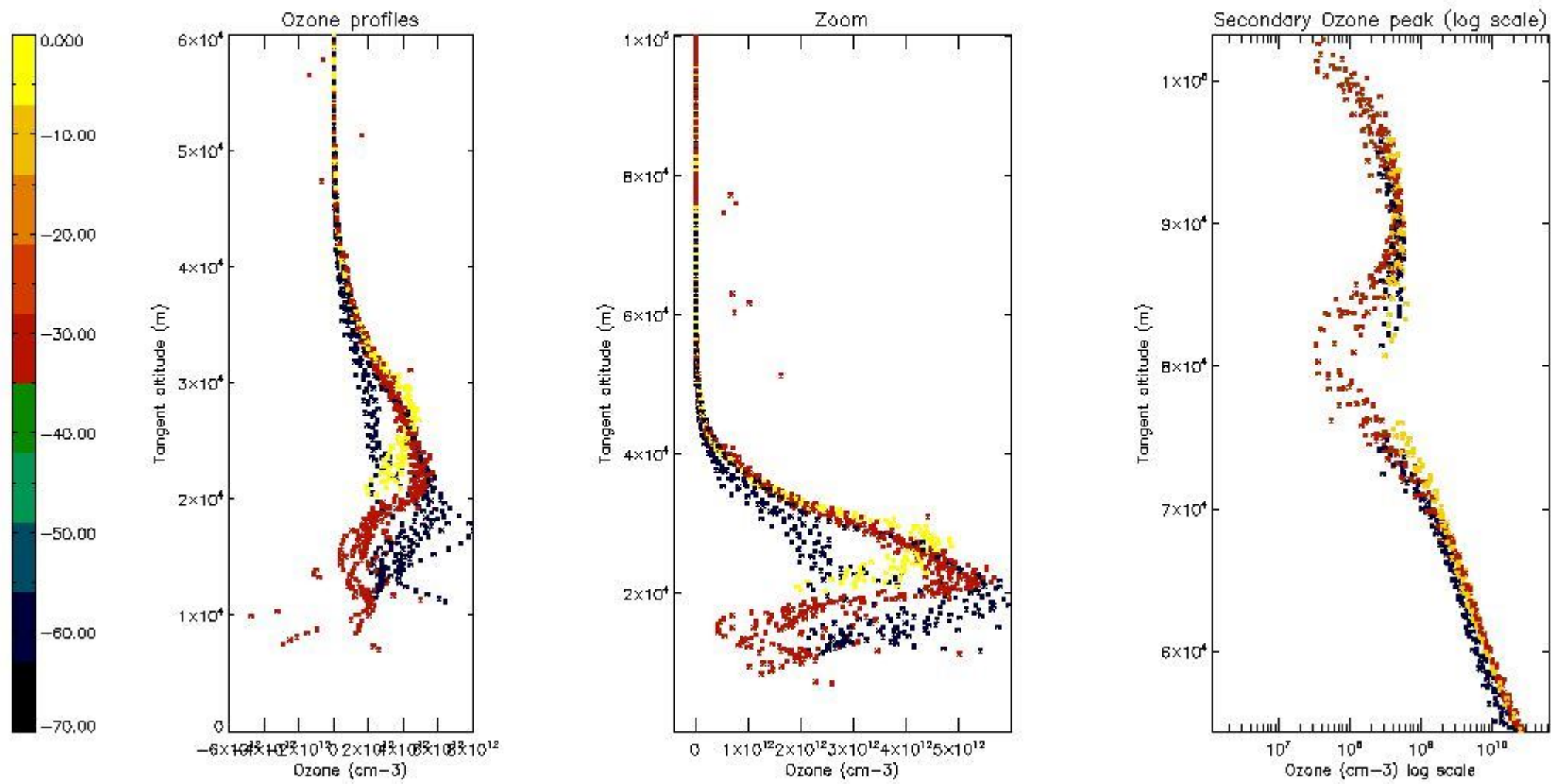
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

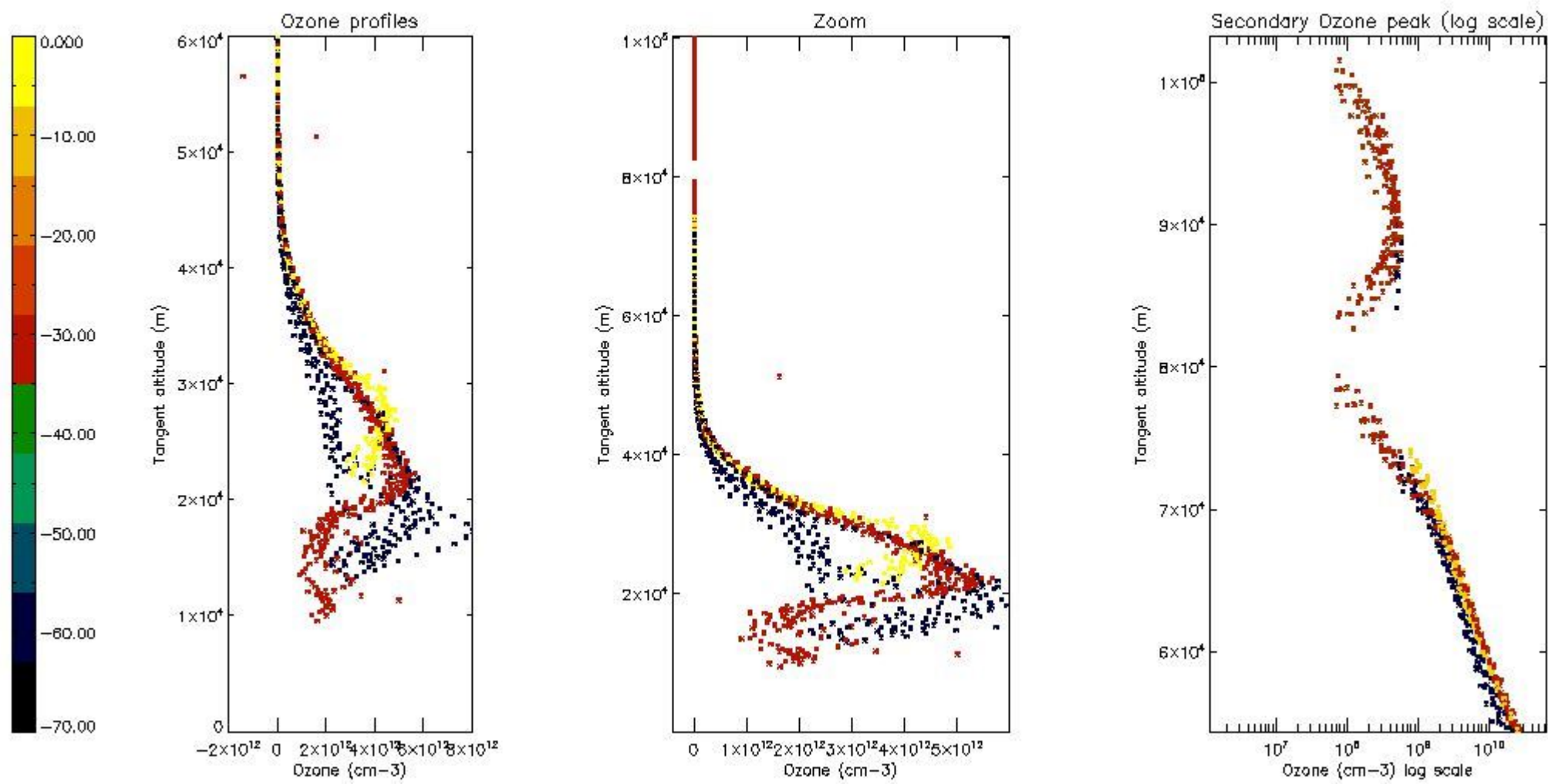
The colorbar represents the latitude.



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

The colorbar represents the latitude.

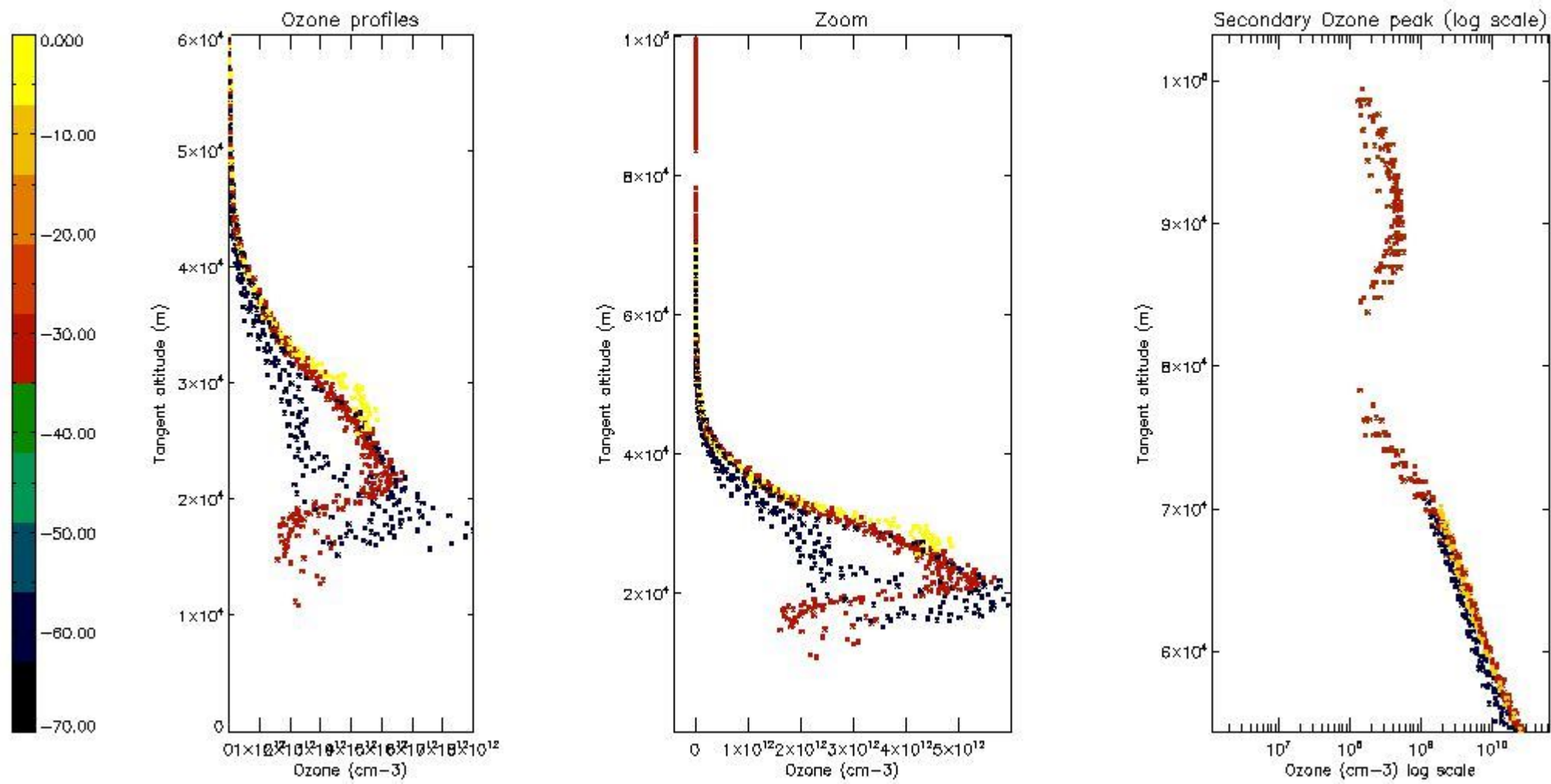




*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

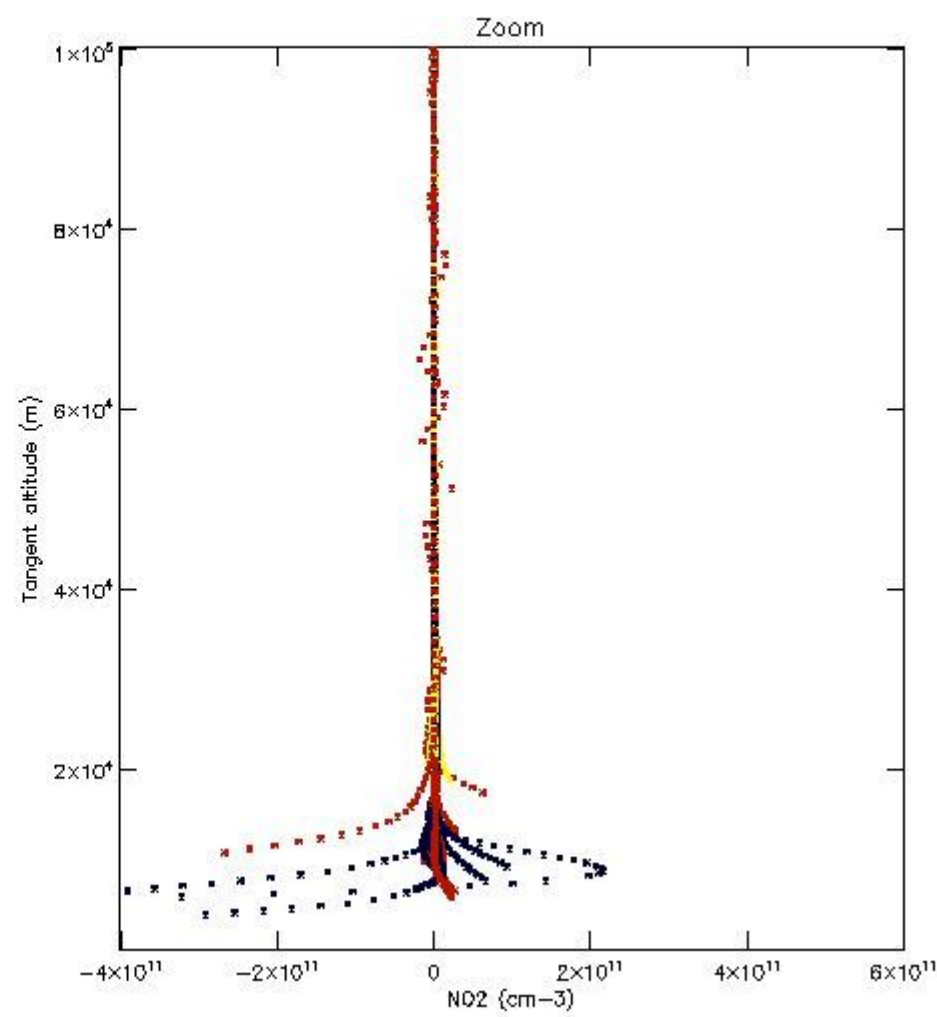
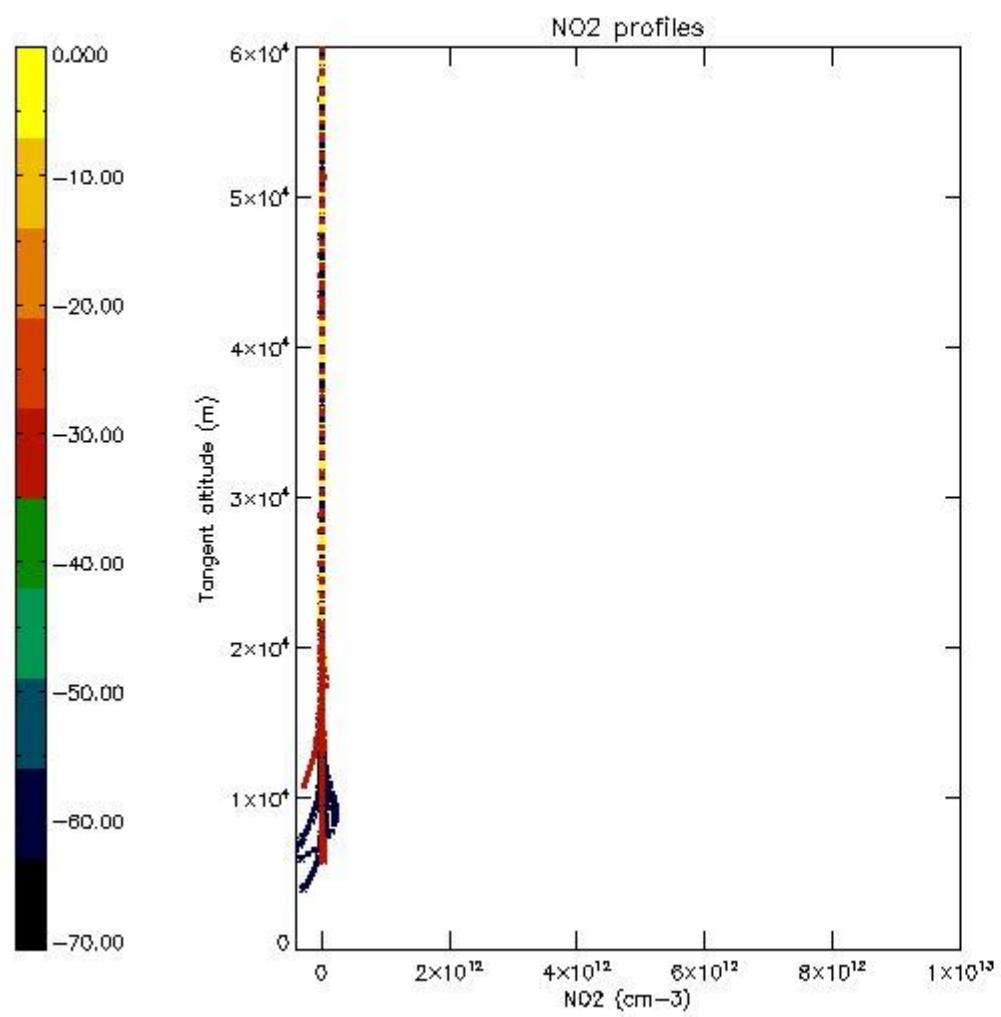
The colorbar represents the latitude.





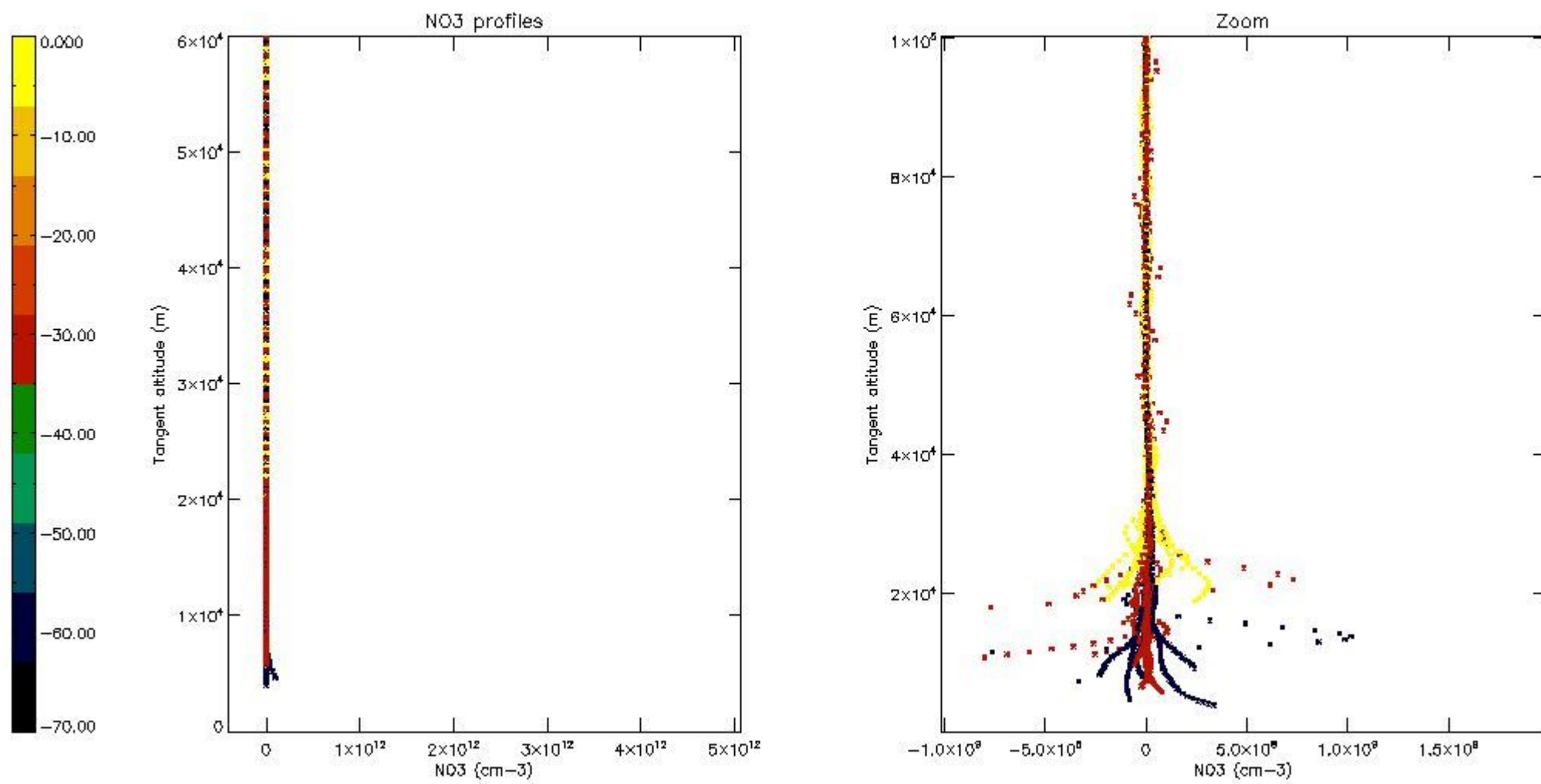
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



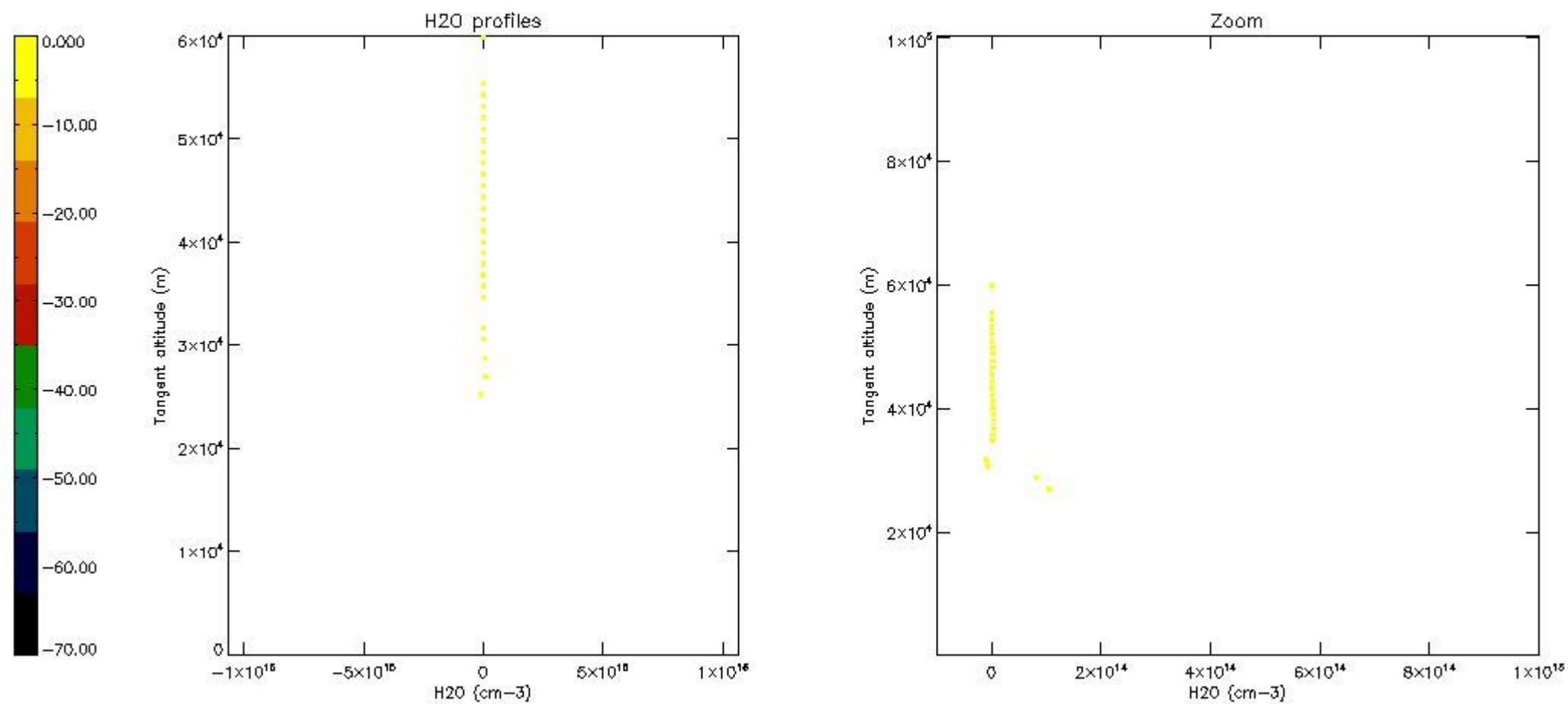
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

The colorbar represents the latitude.

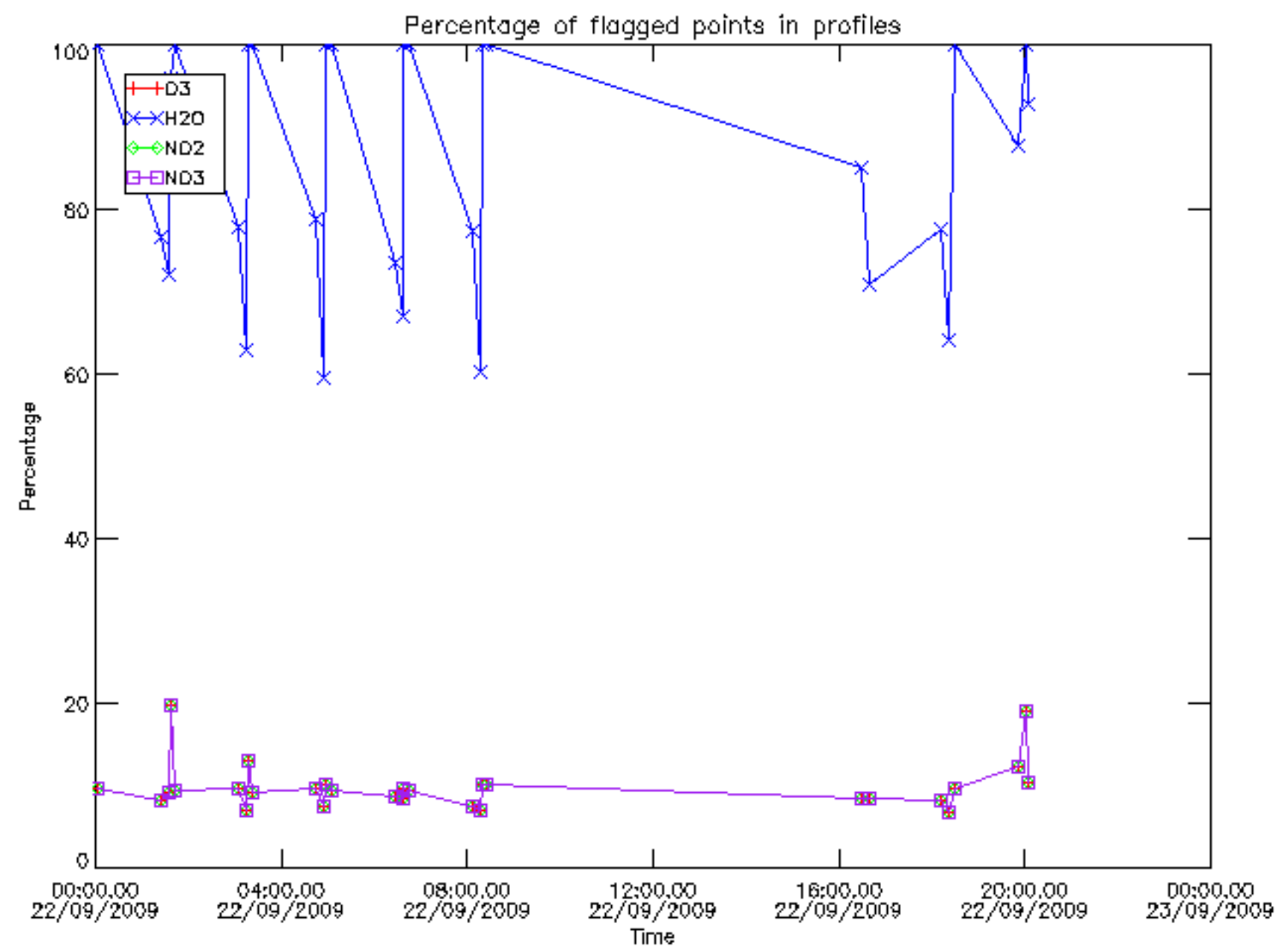


## 6. Auxiliary Data Files used for the production reported in section 2

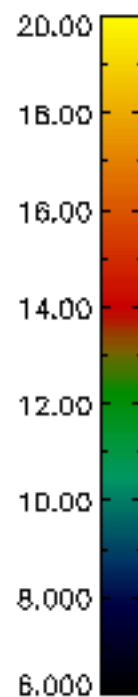
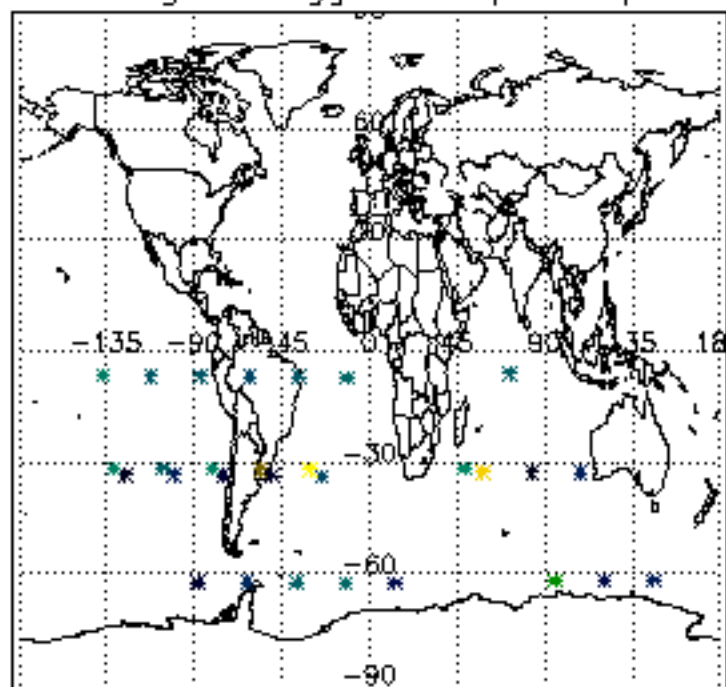
The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	22-SEP-2009 00:02:07
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	22-SEP-2009 00:02:07
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	22-SEP-2009 00:02:07

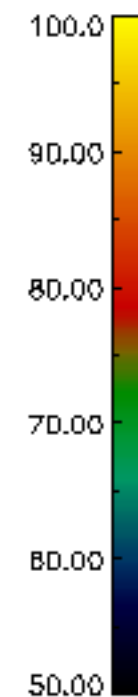
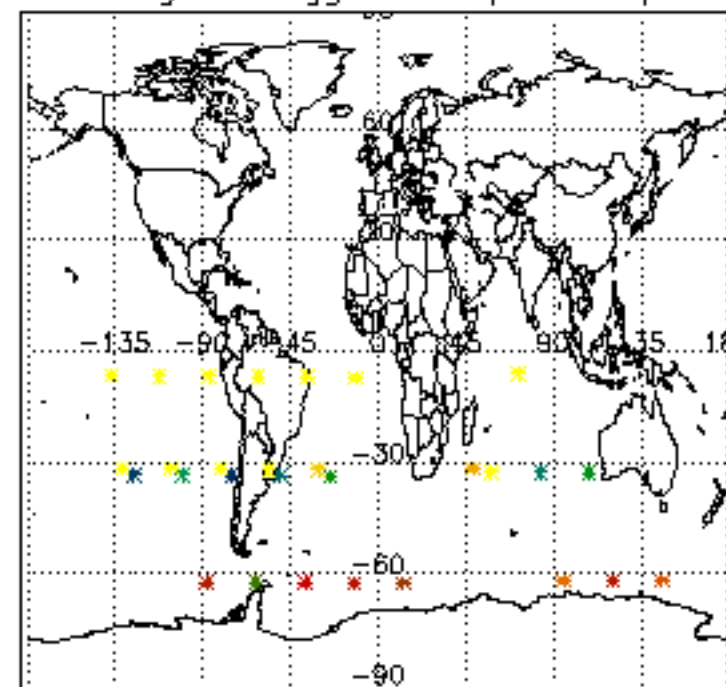




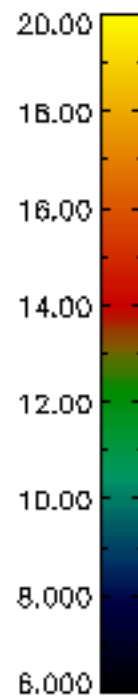
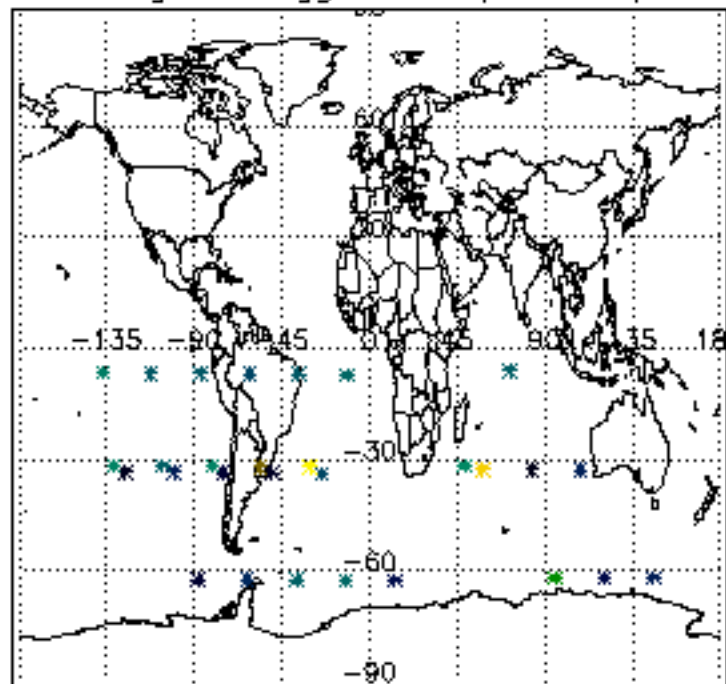
Percentage of flagged data per D3 profile



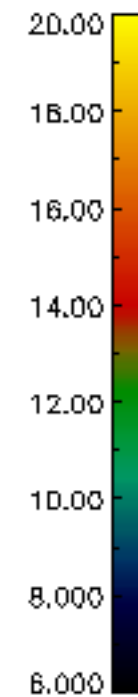
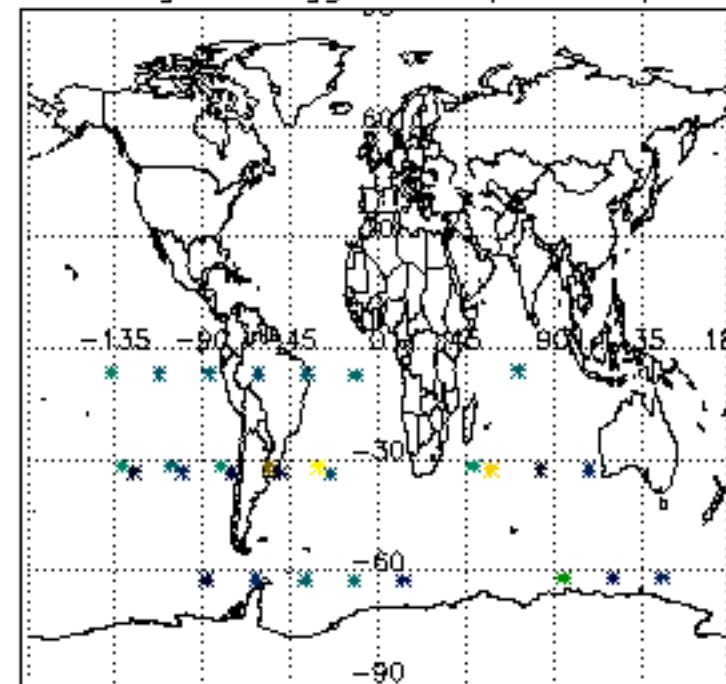
Percentage of flagged data per H2O profile

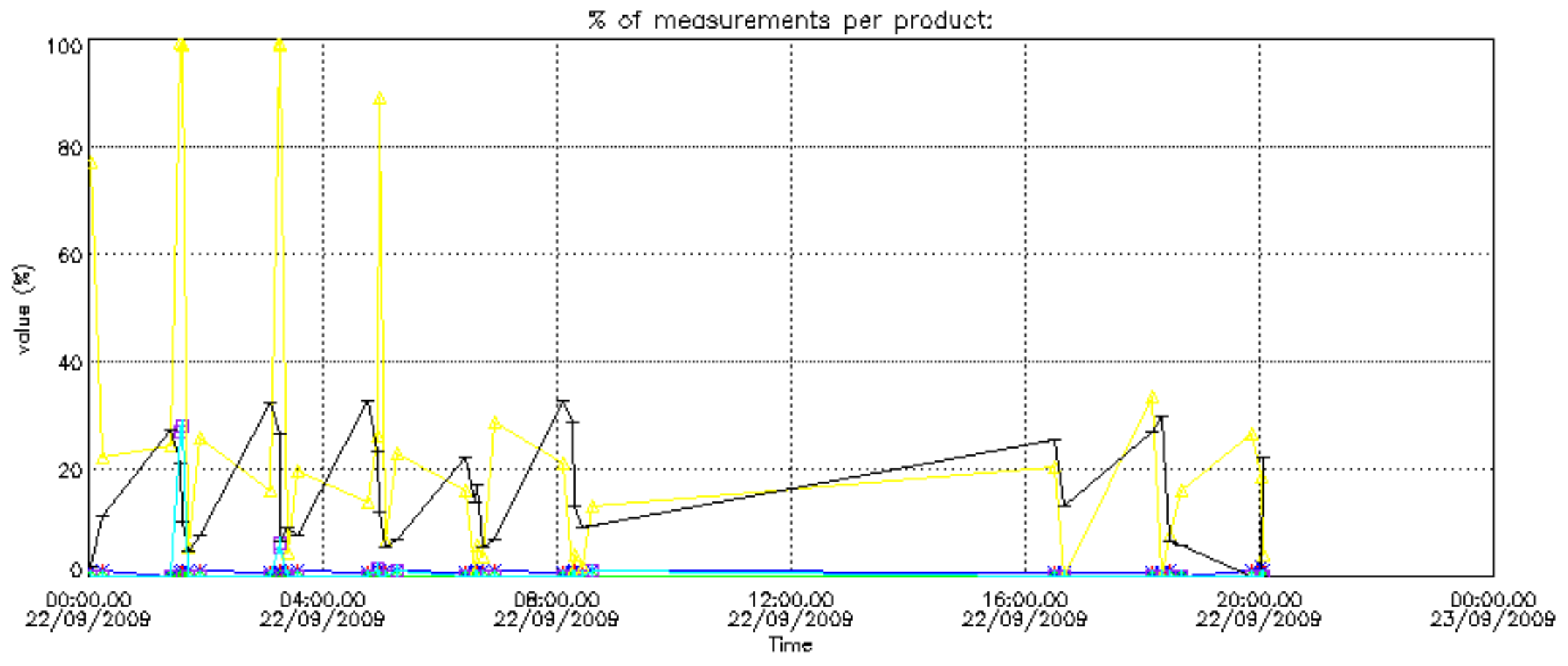


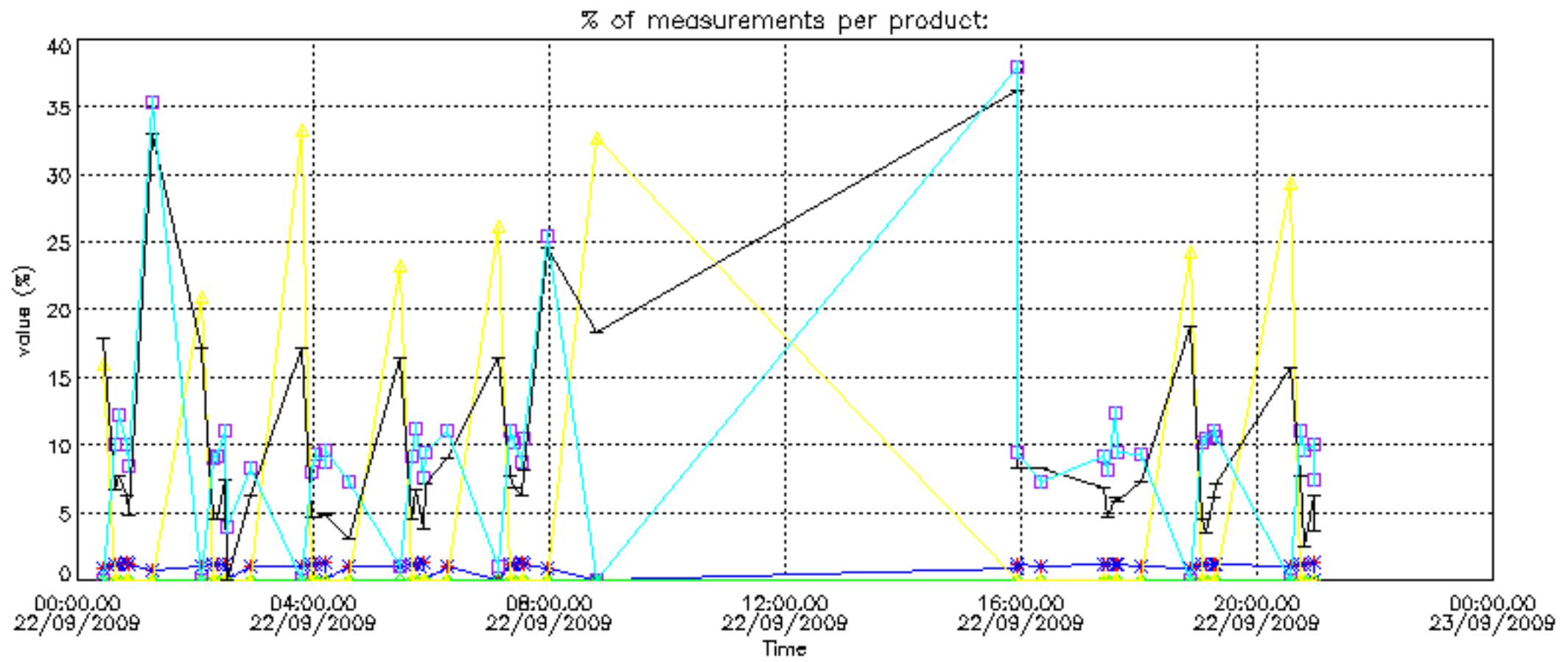
Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

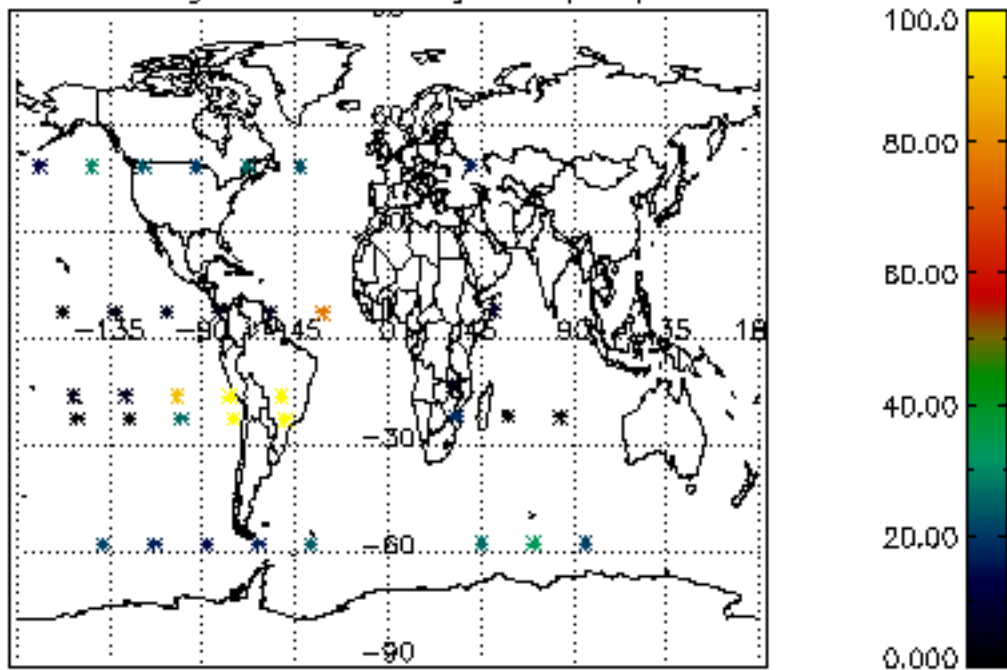




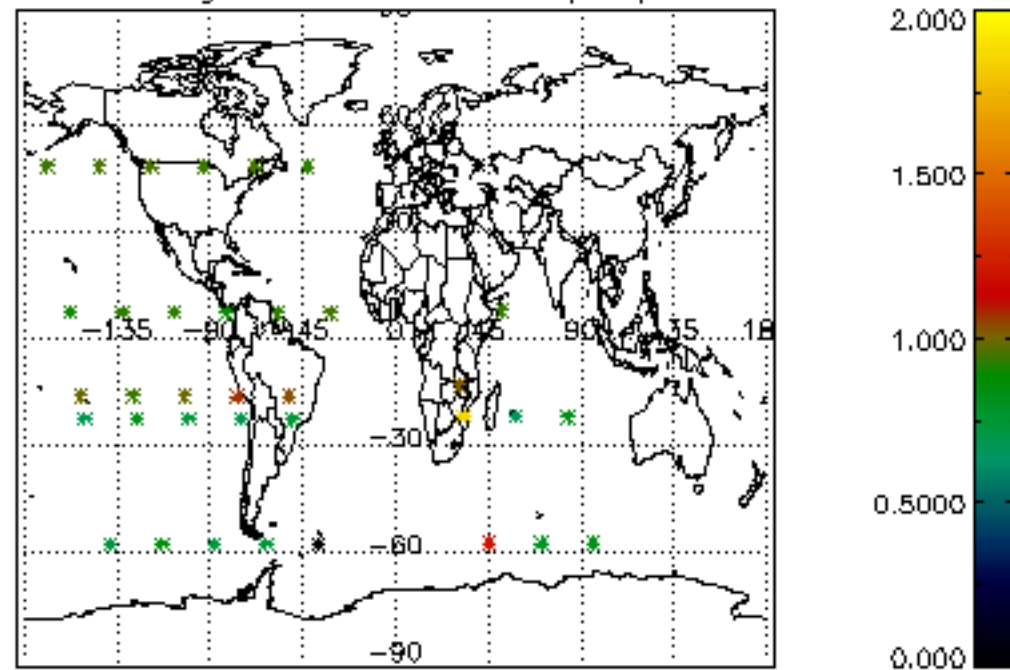




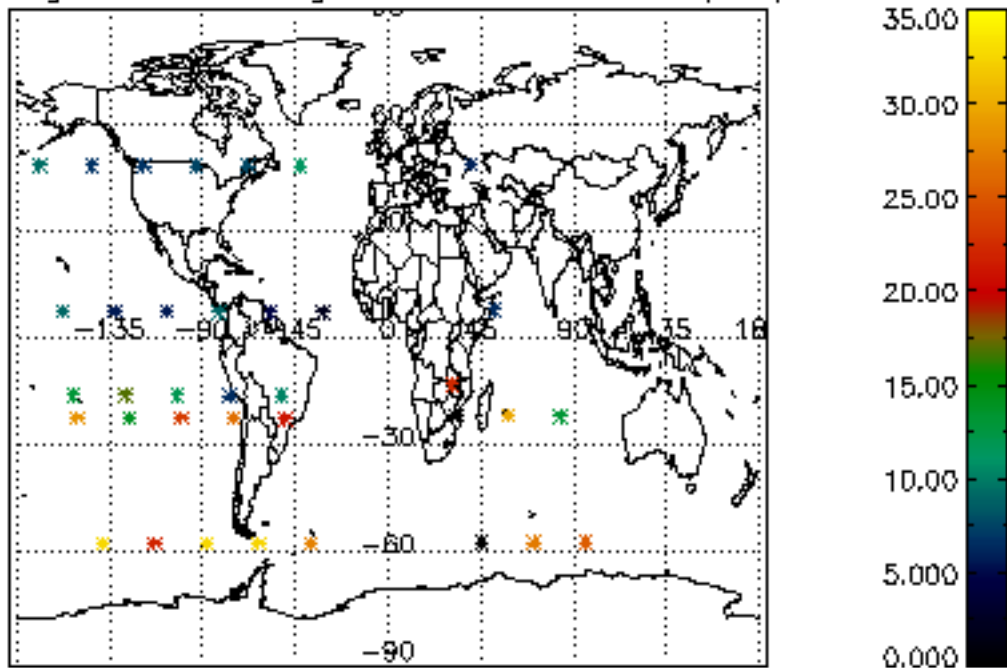
Percentage of cosmic ray hits per profile



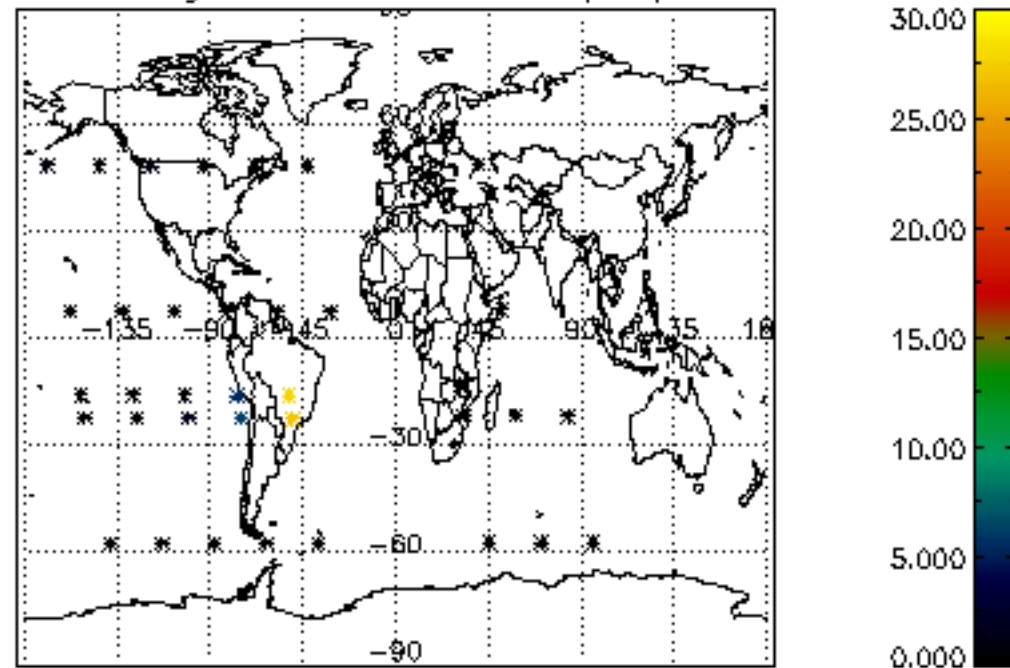
Percentage of datation errors per profile



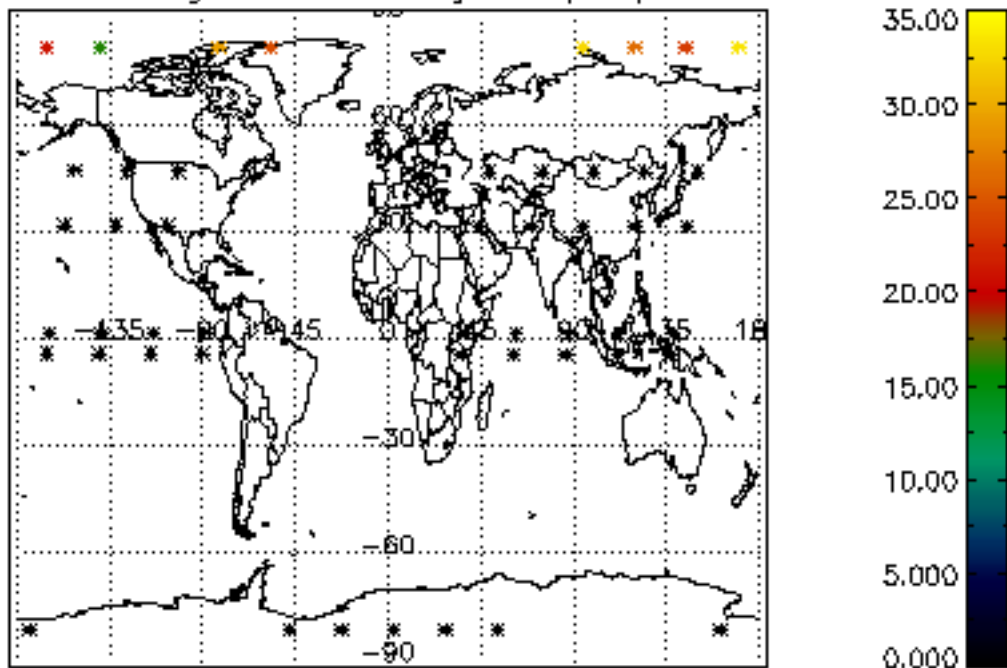
Percentage of star falling outside central band per profile



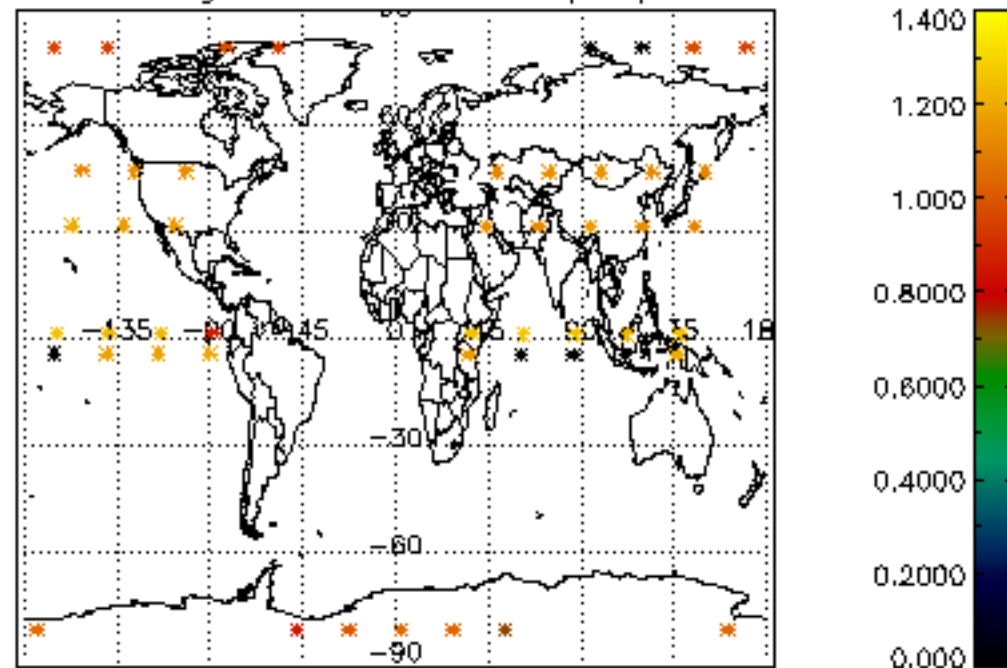
Percentage of saturation errors per profile



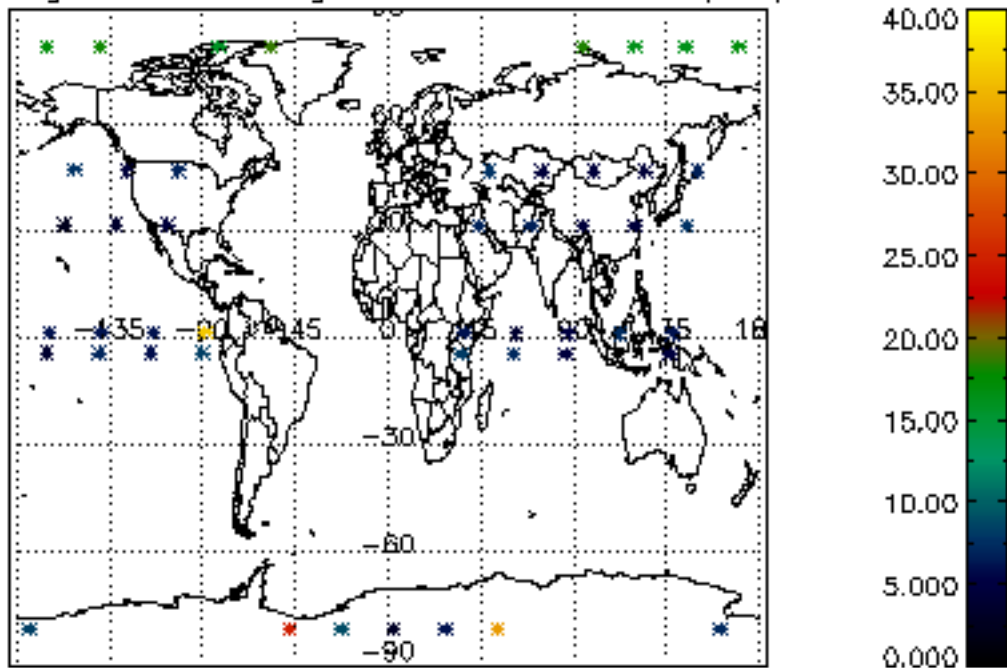
Percentage of cosmic ray hits per profile



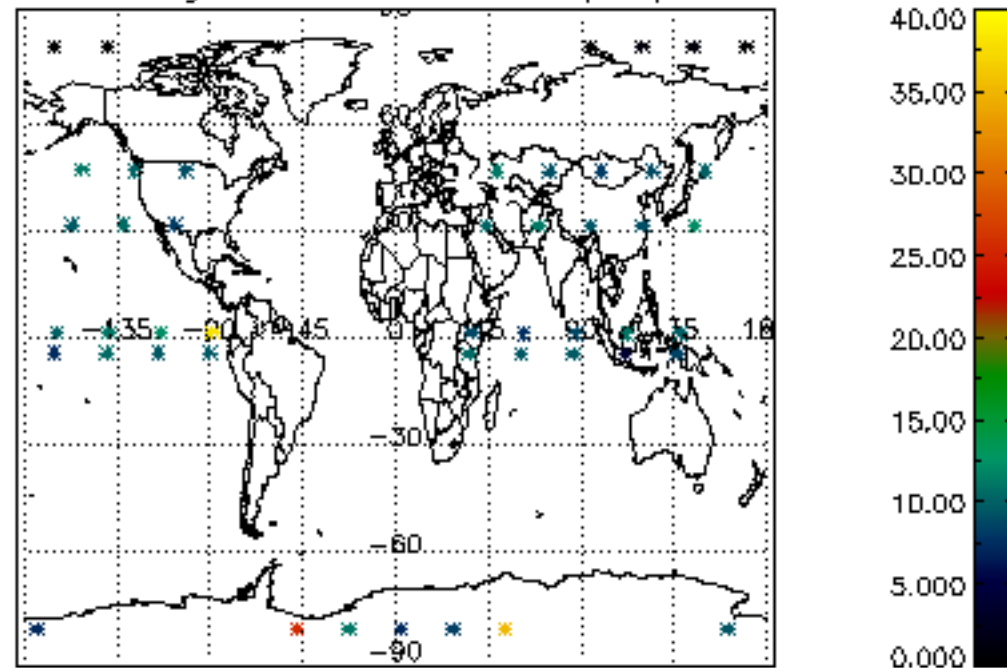
Percentage of datation errors per profile

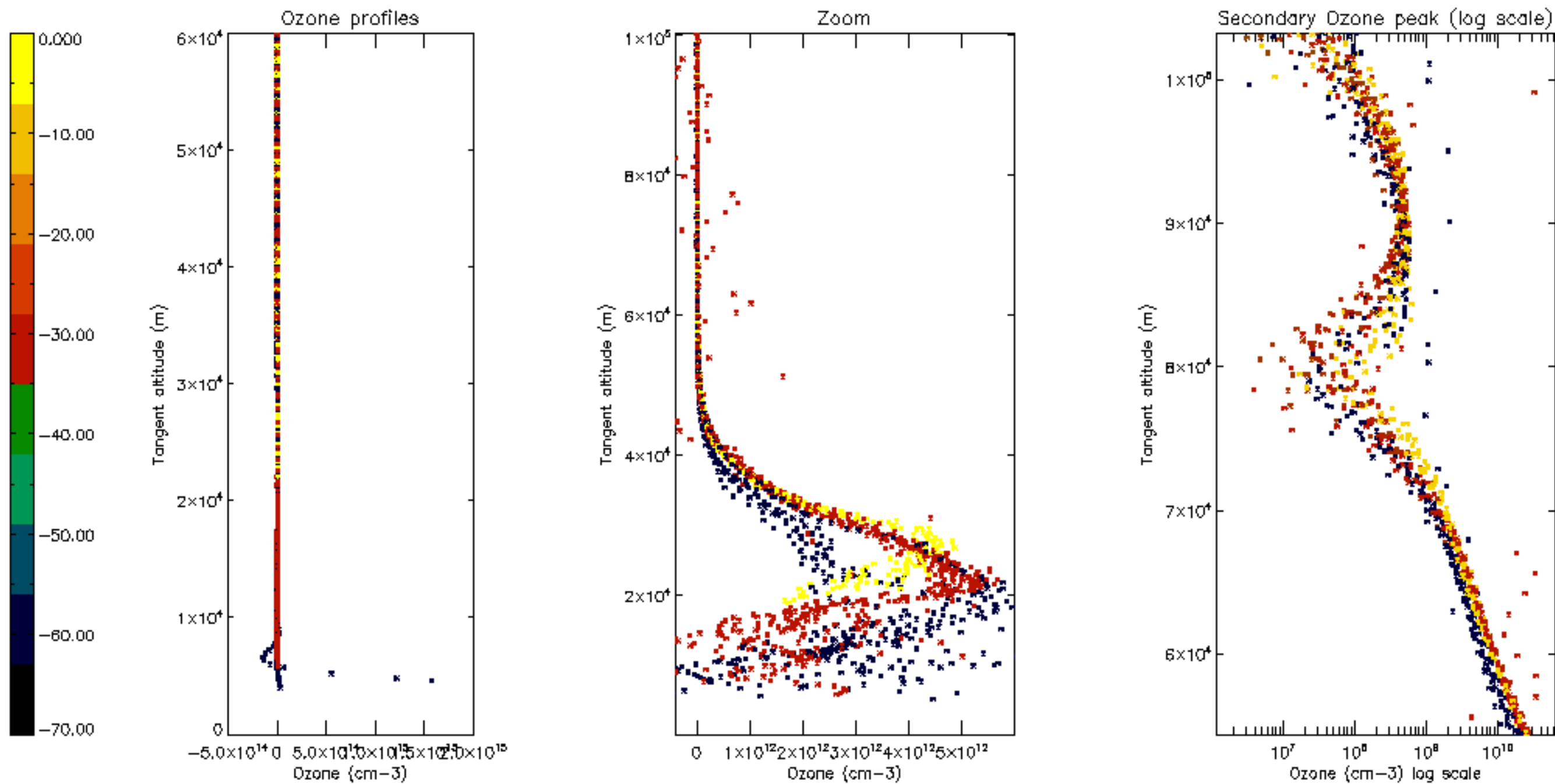


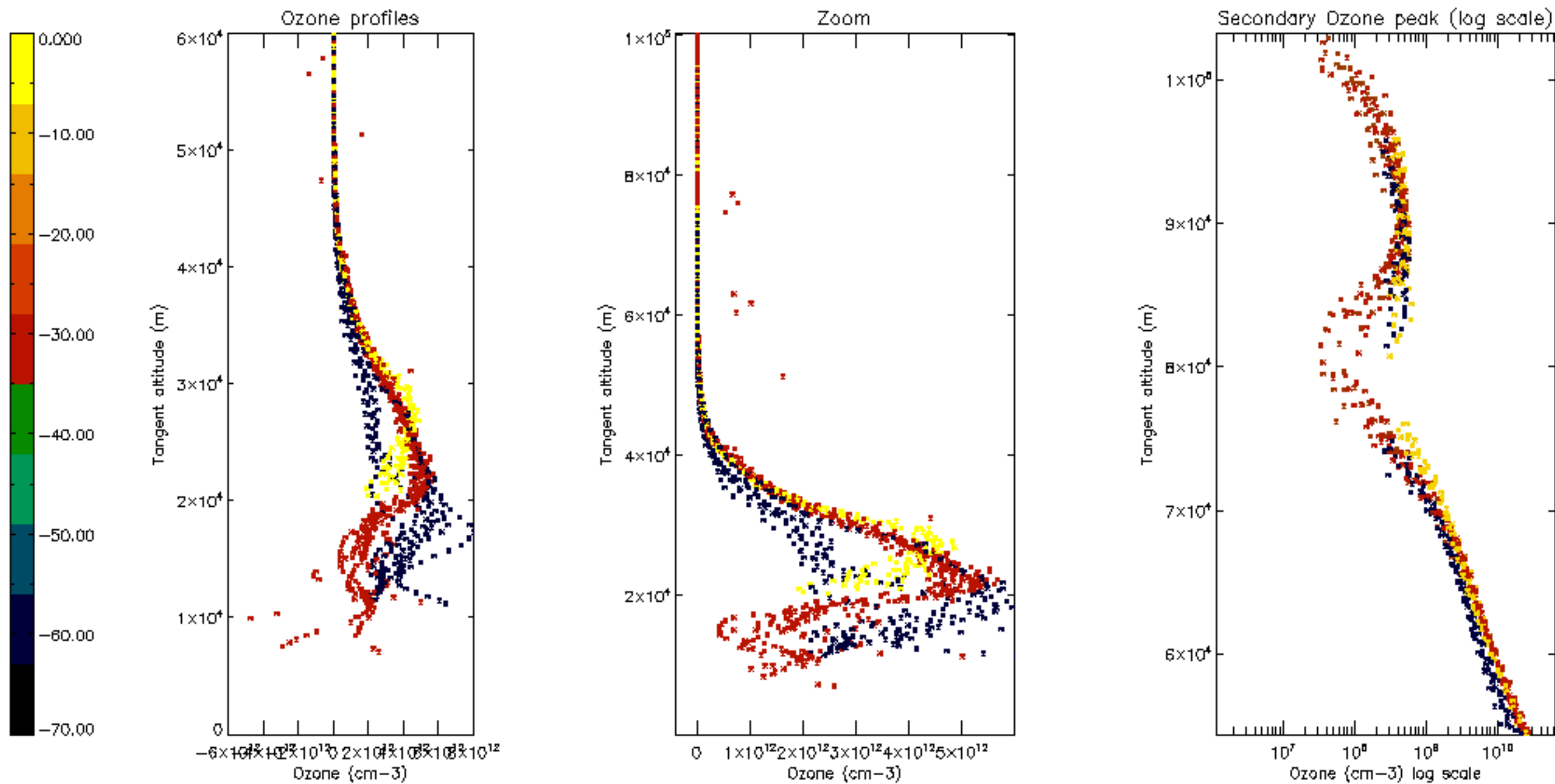
Percentage of star falling outside central band per profile



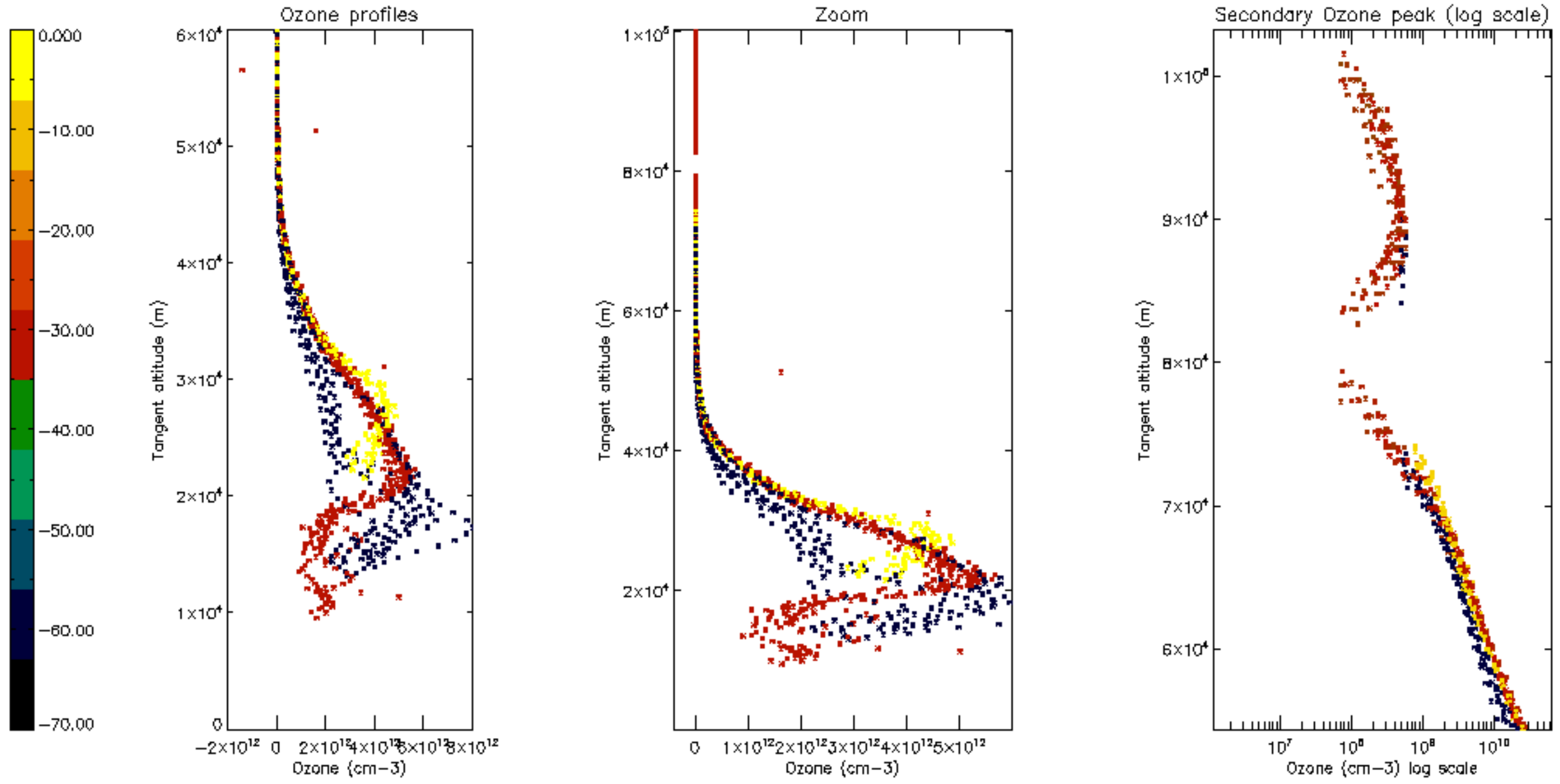
Percentage of saturation errors per profile

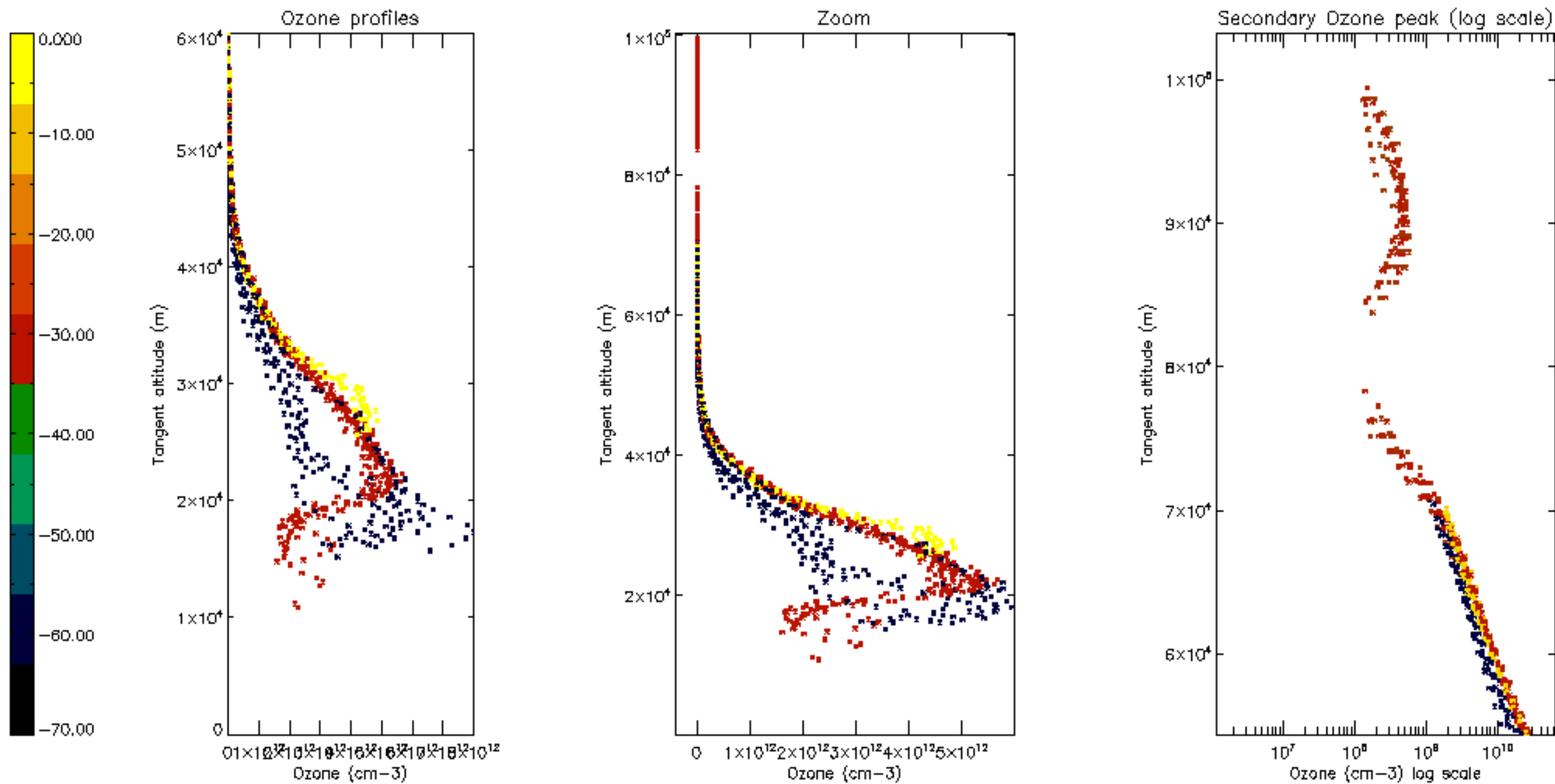


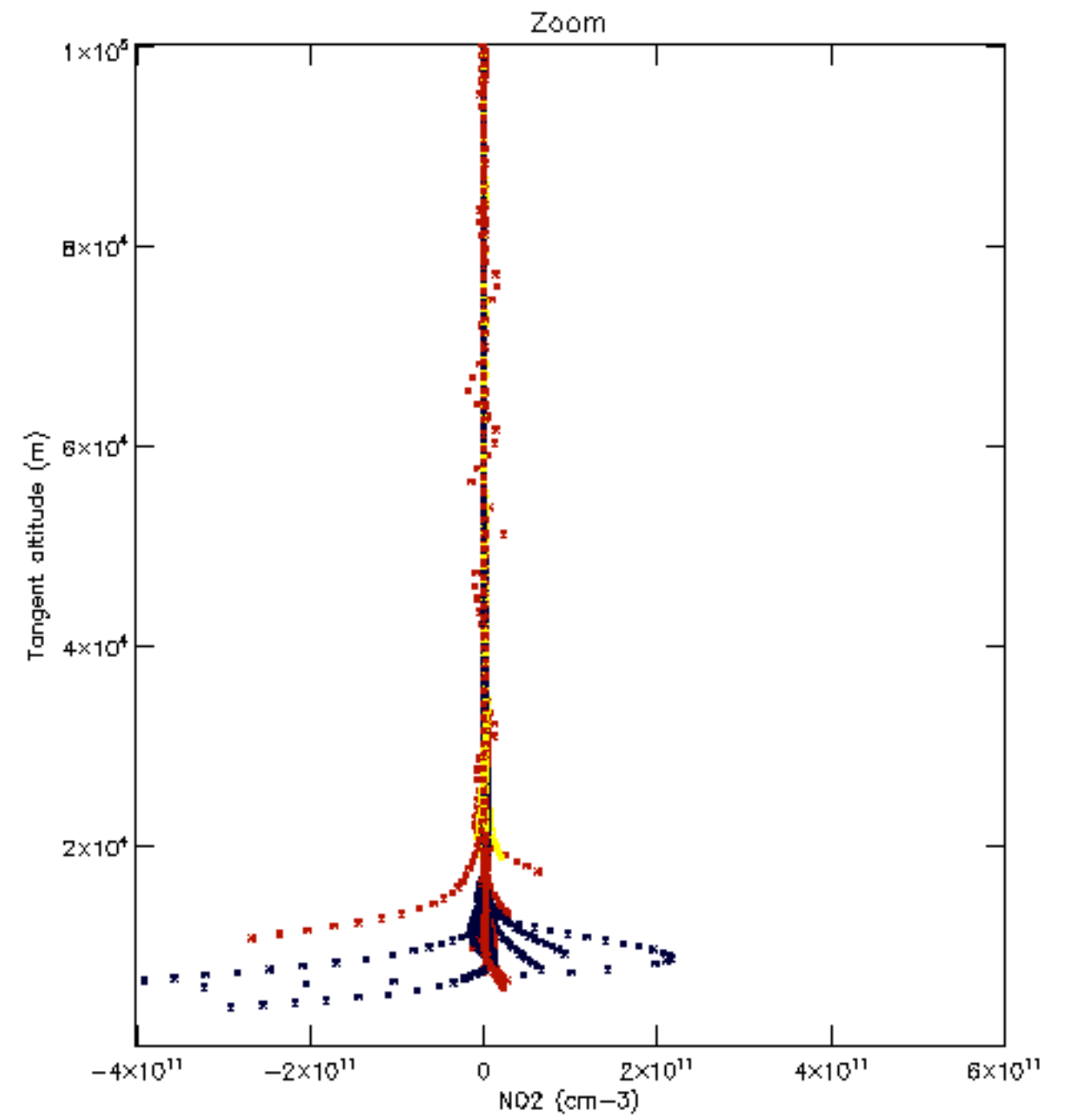
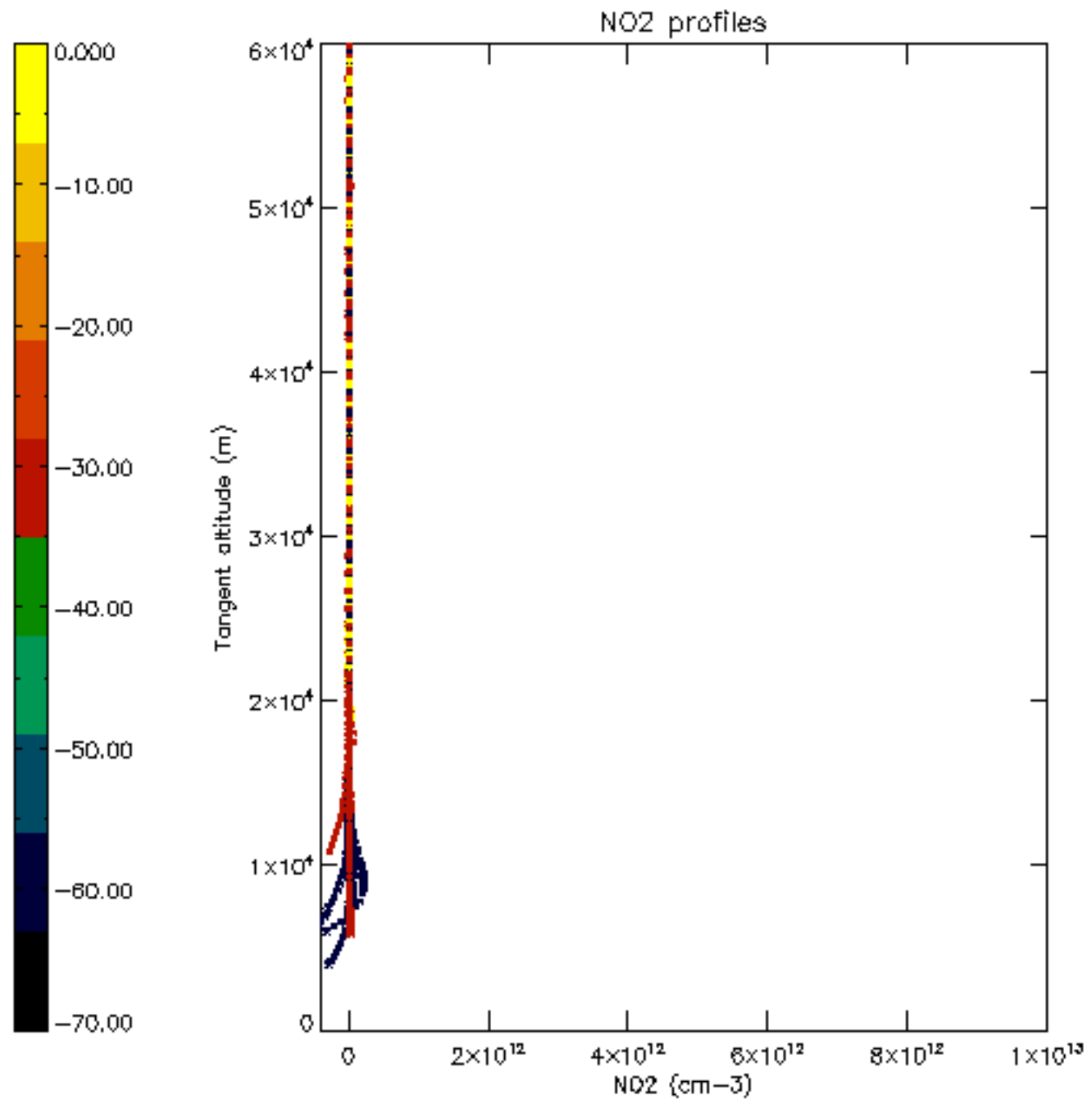


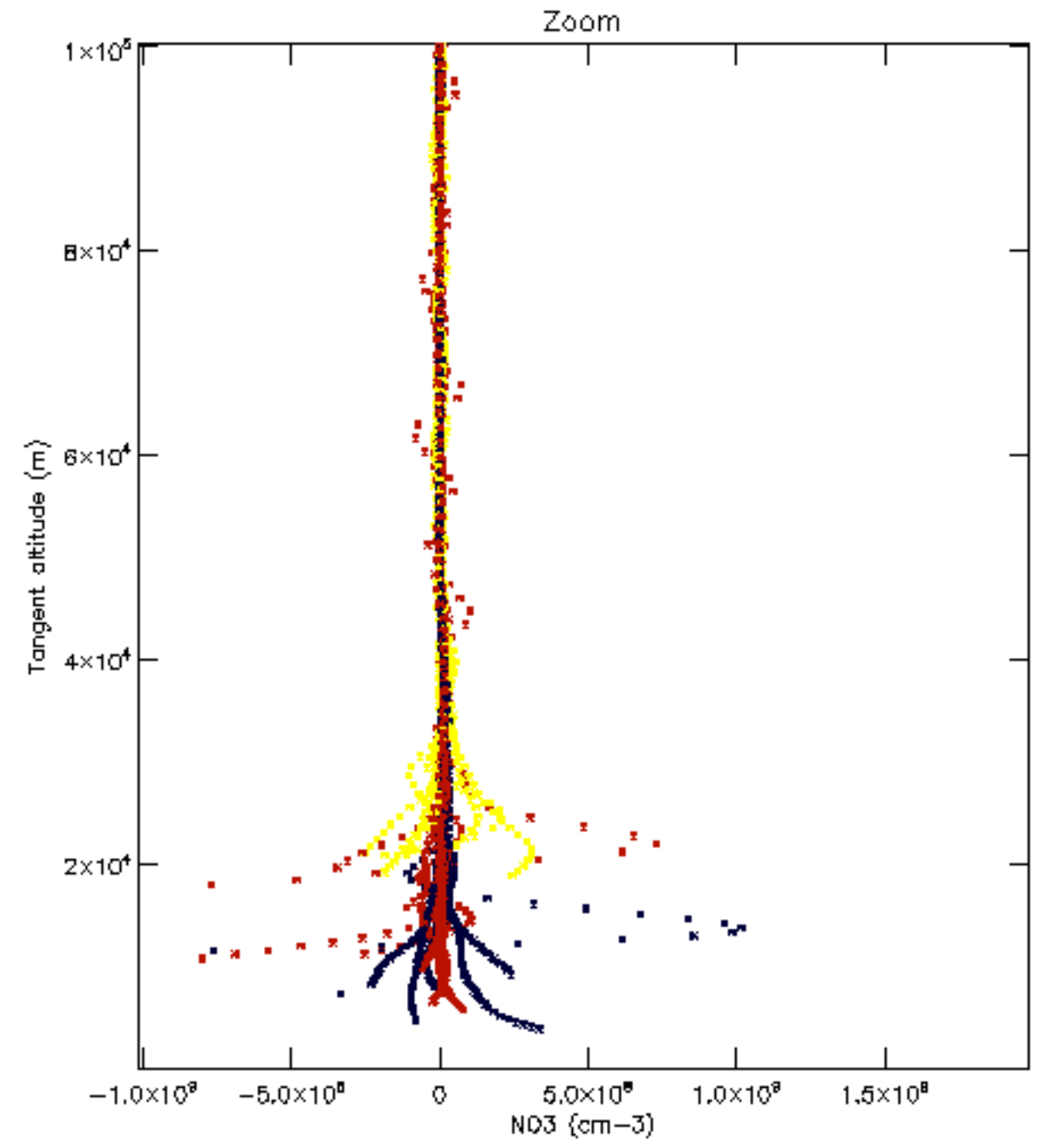
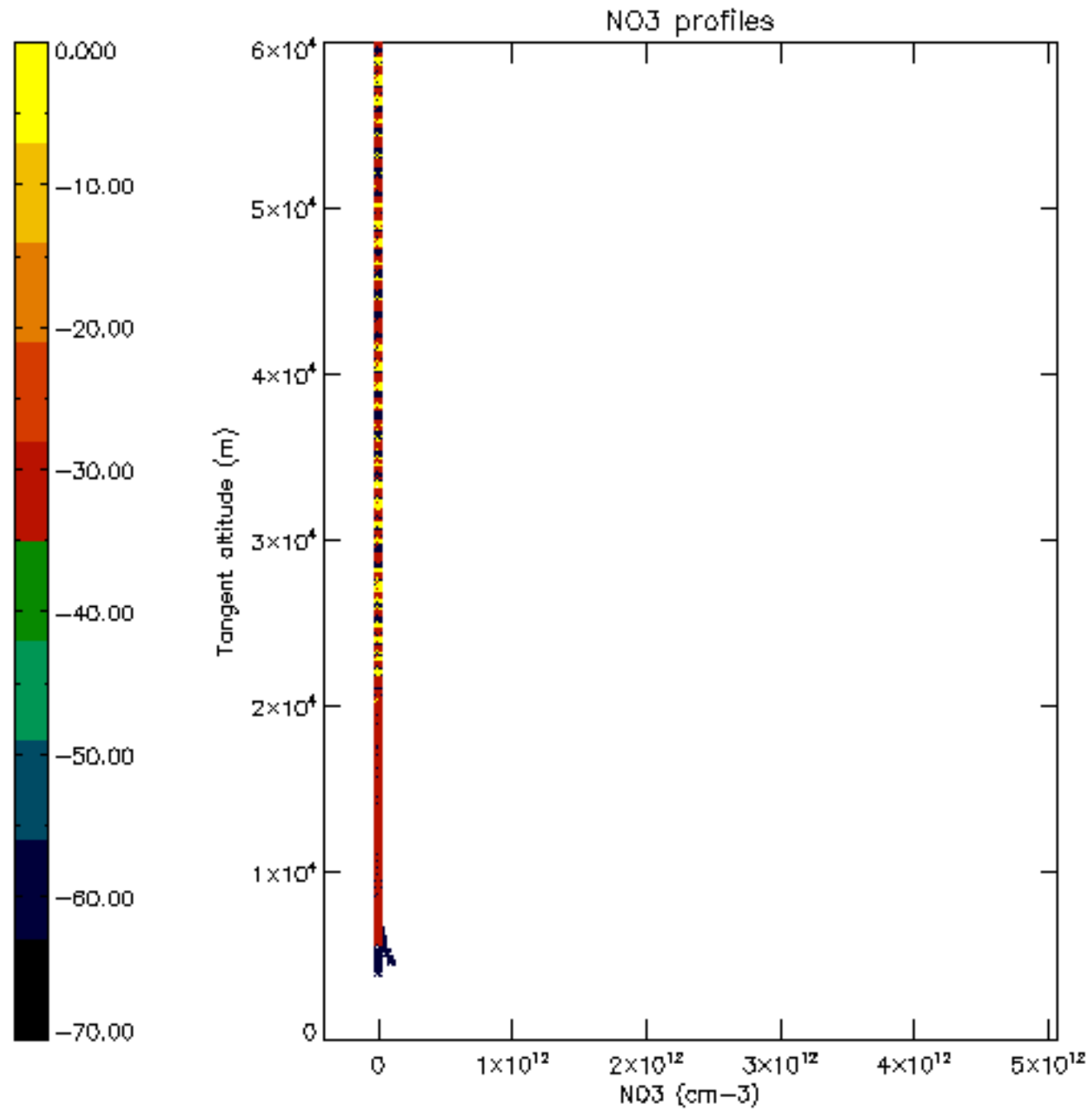




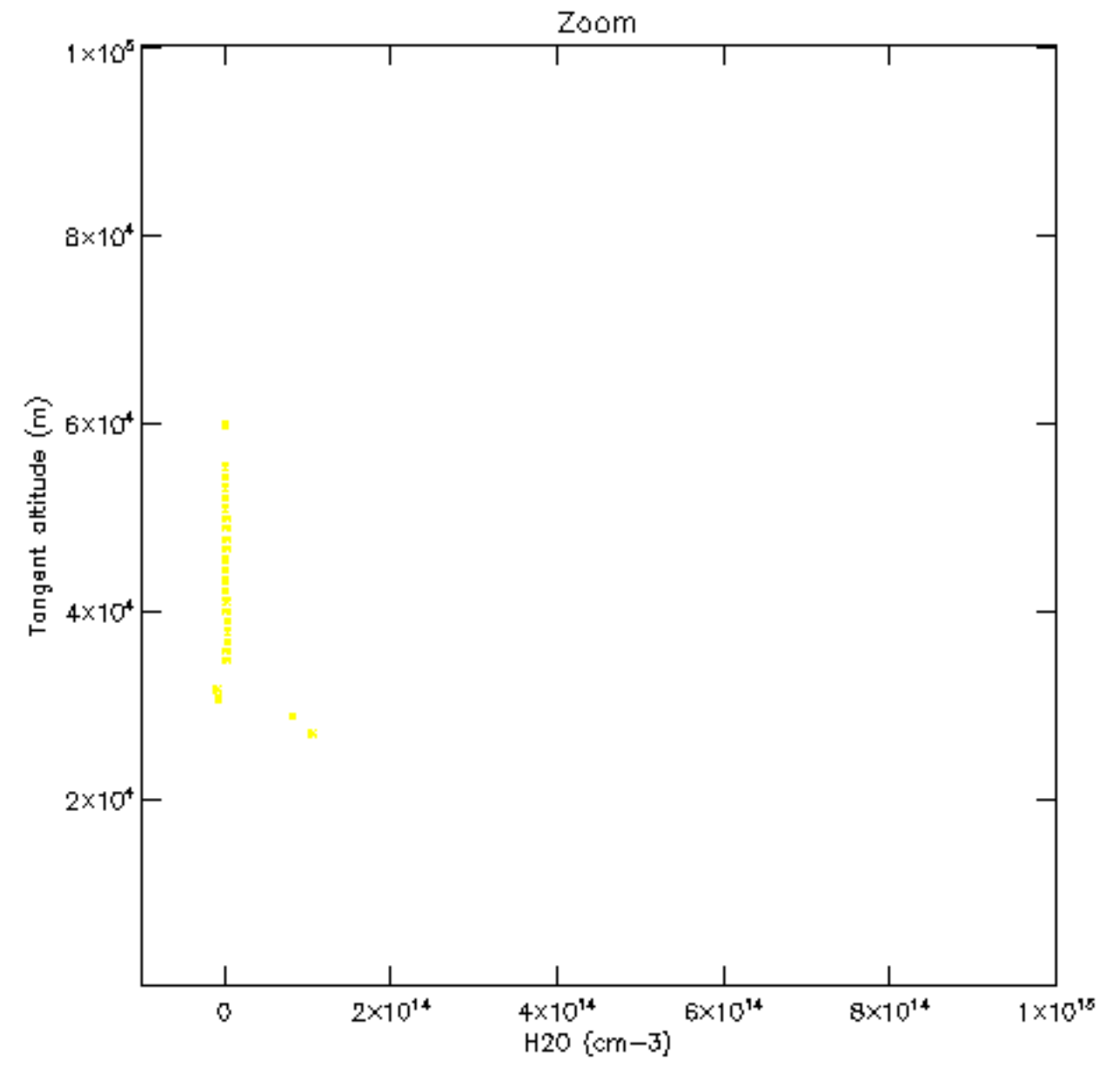
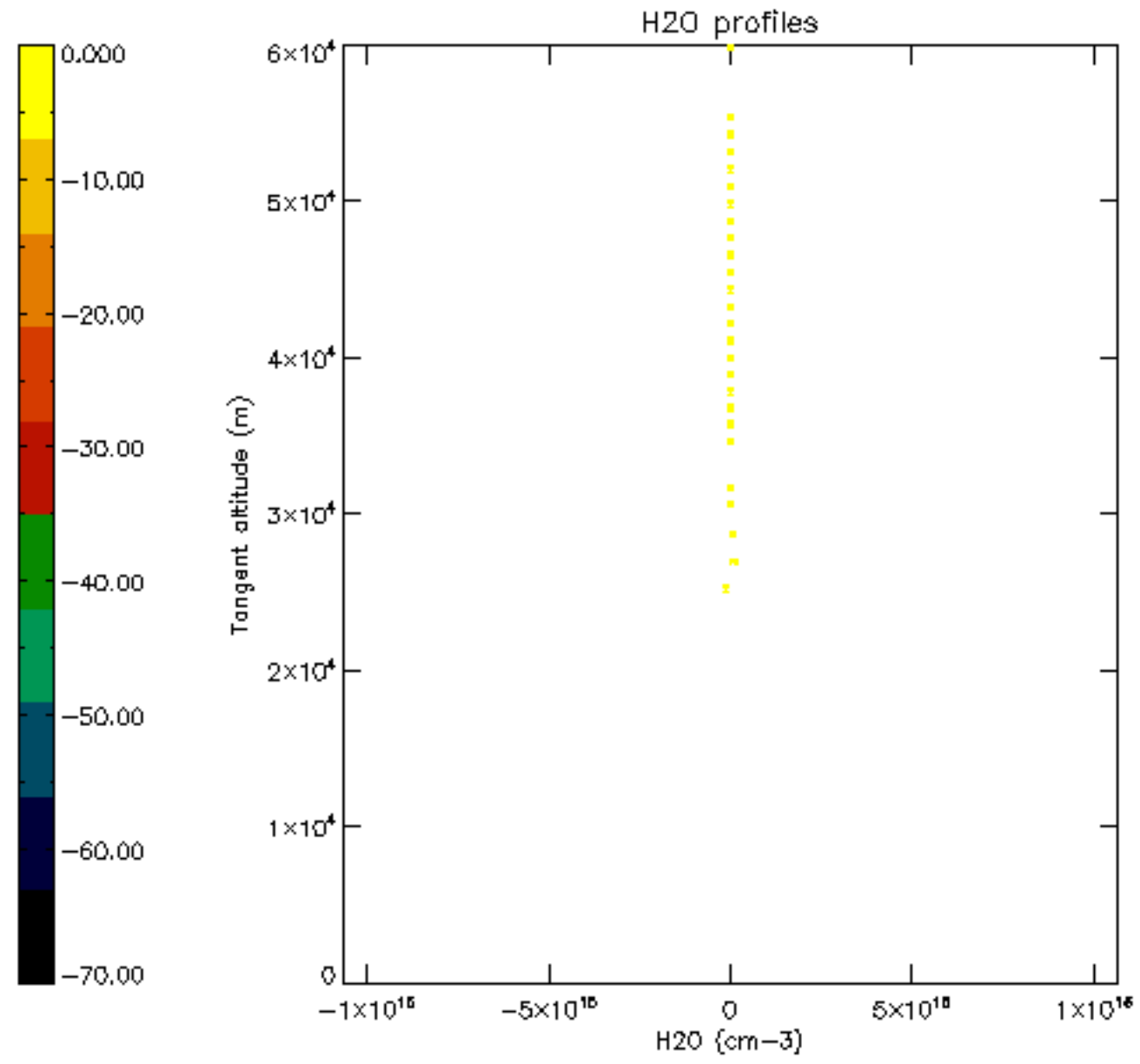


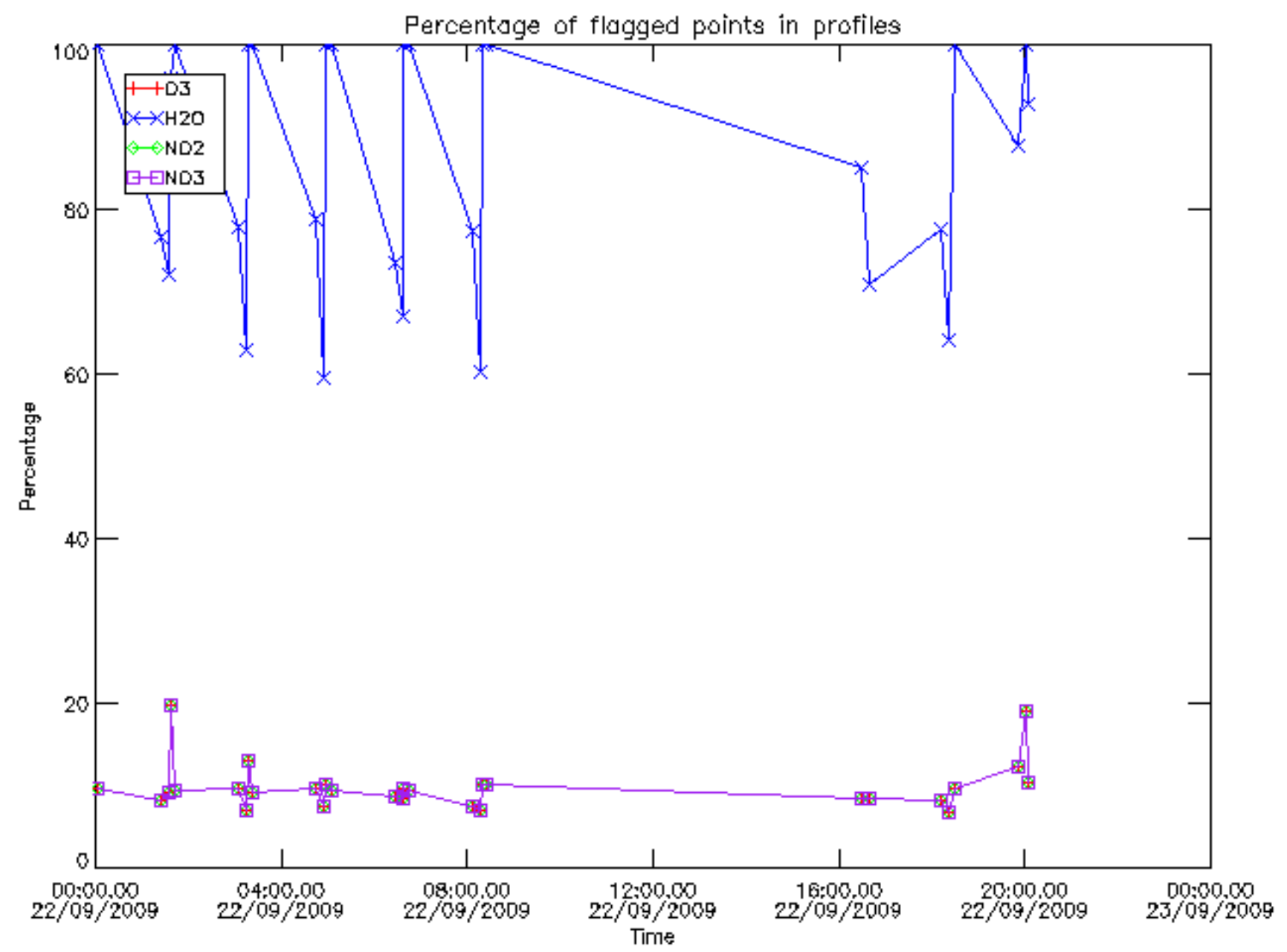




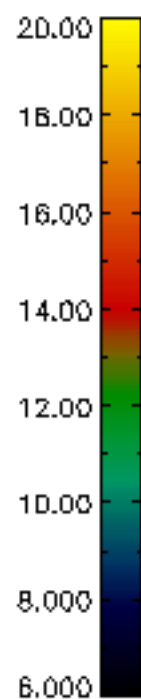
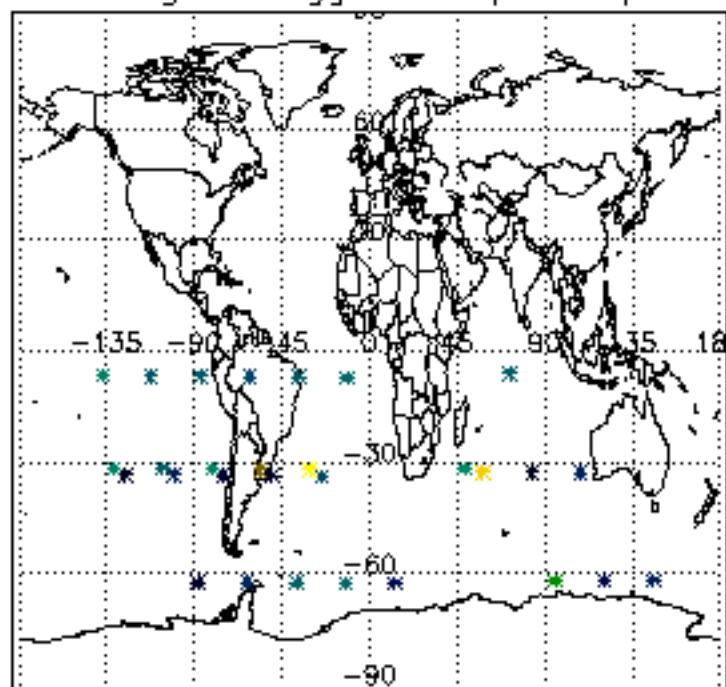




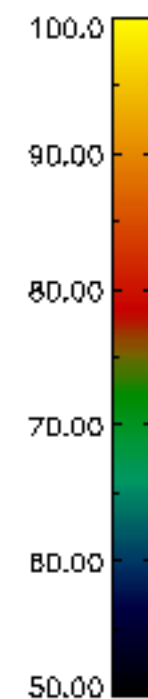
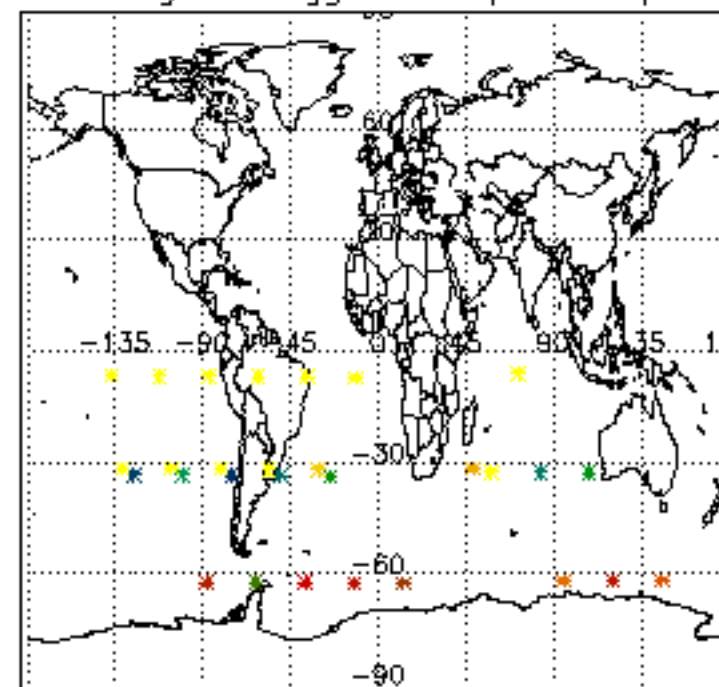




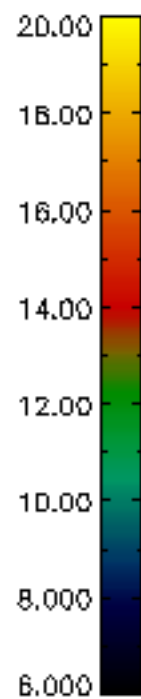
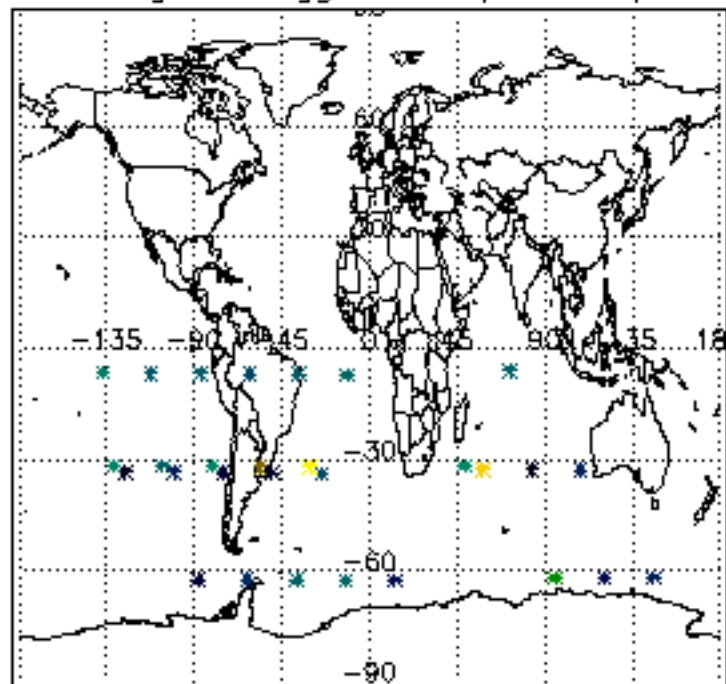
Percentage of flagged data per D3 profile



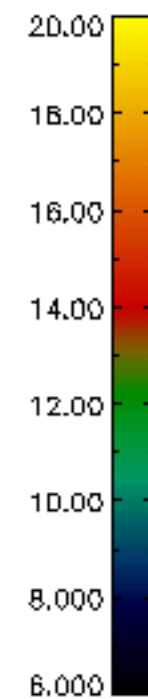
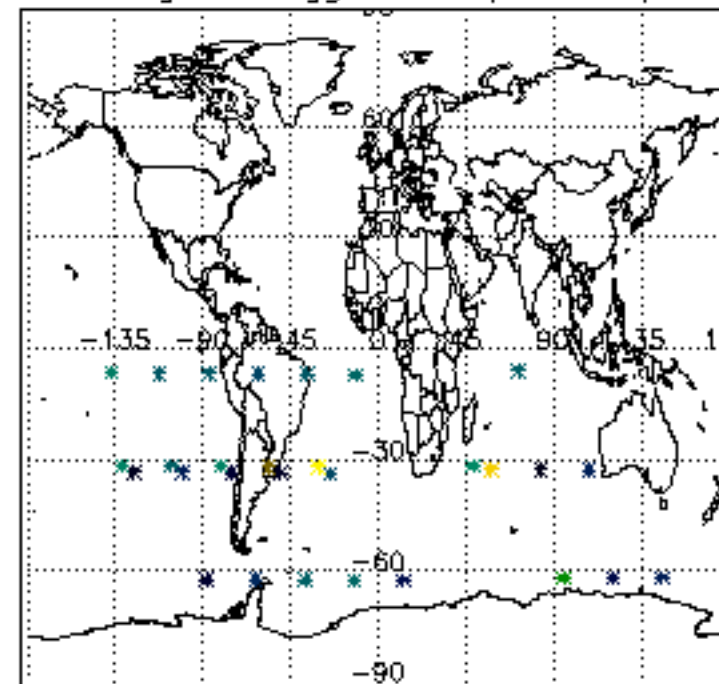
Percentage of flagged data per H2O profile

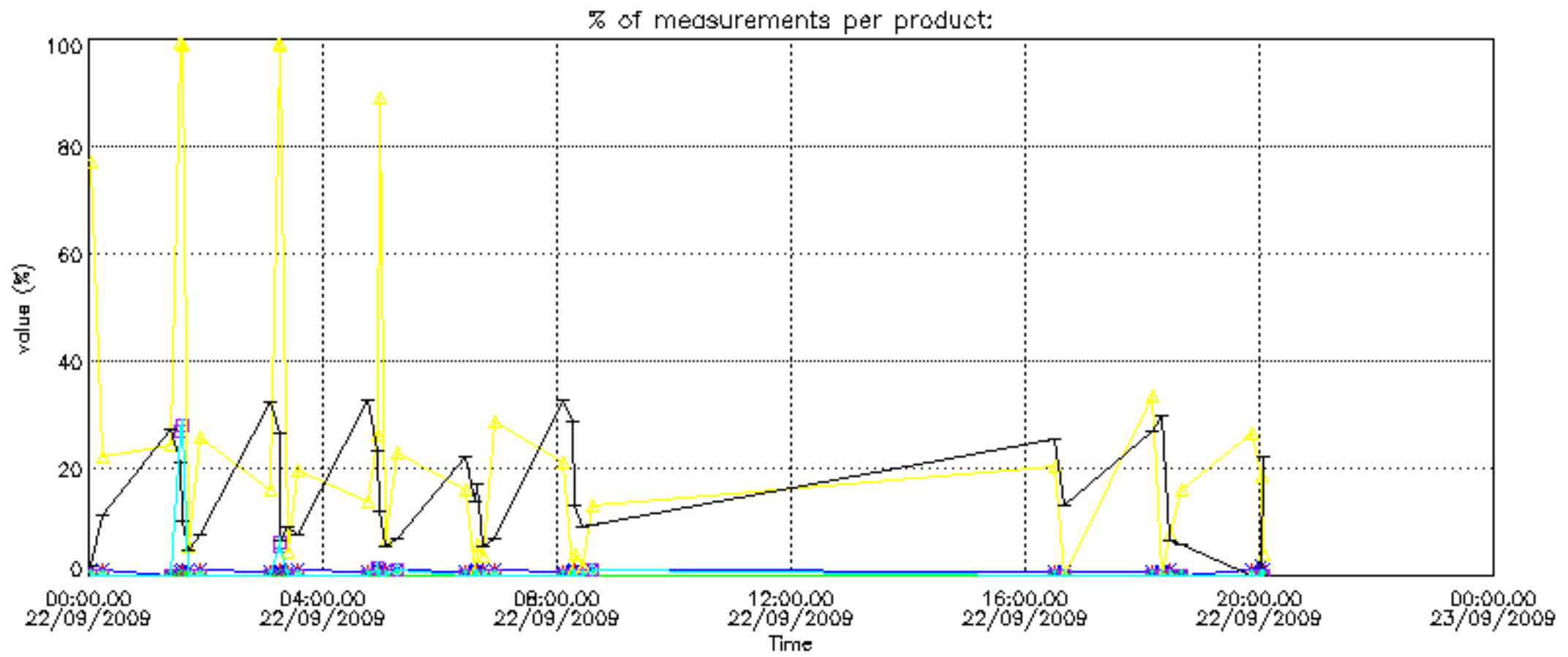


Percentage of flagged data per NO2 profile

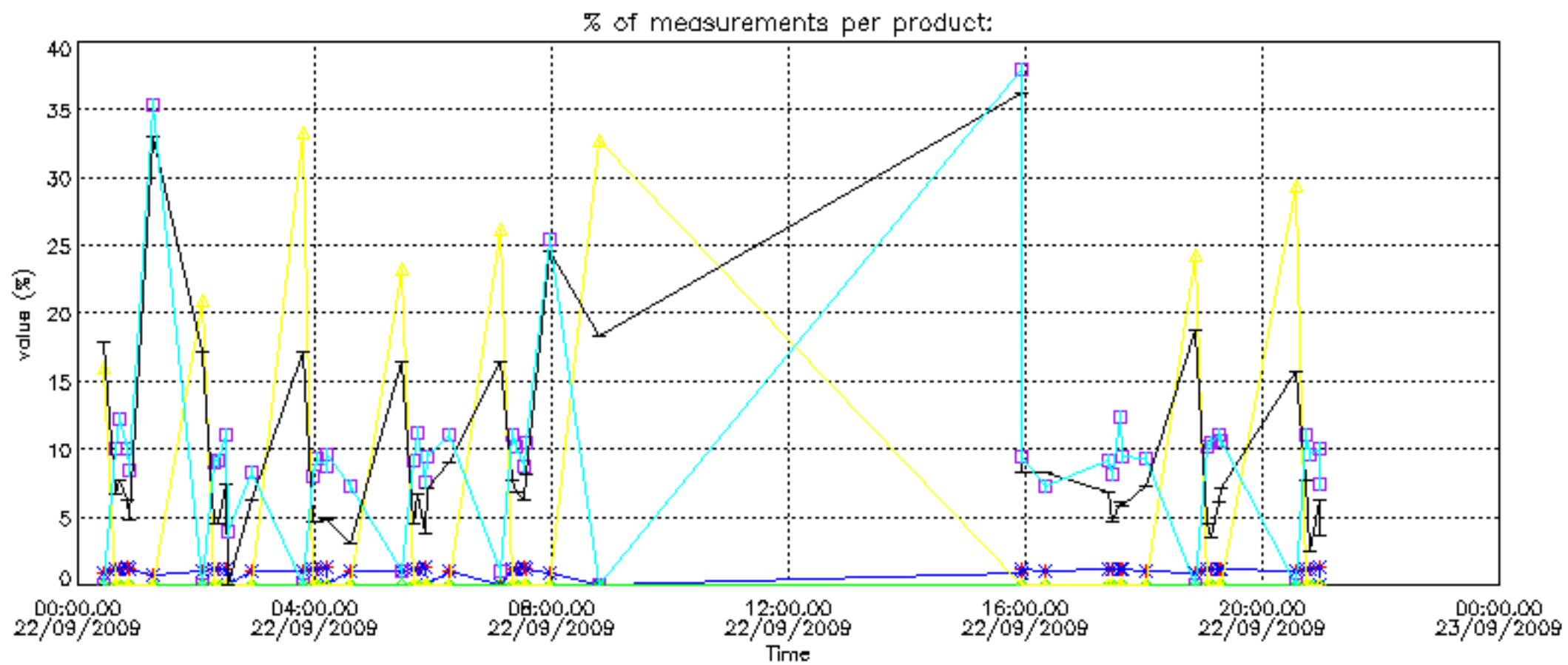


Percentage of flagged data per NO3 profile

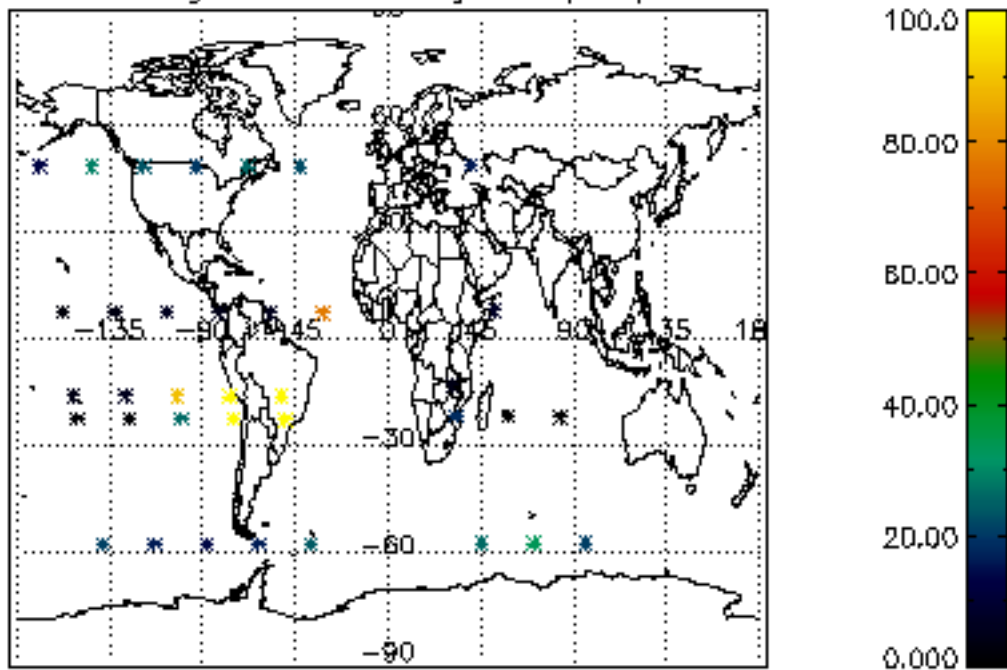




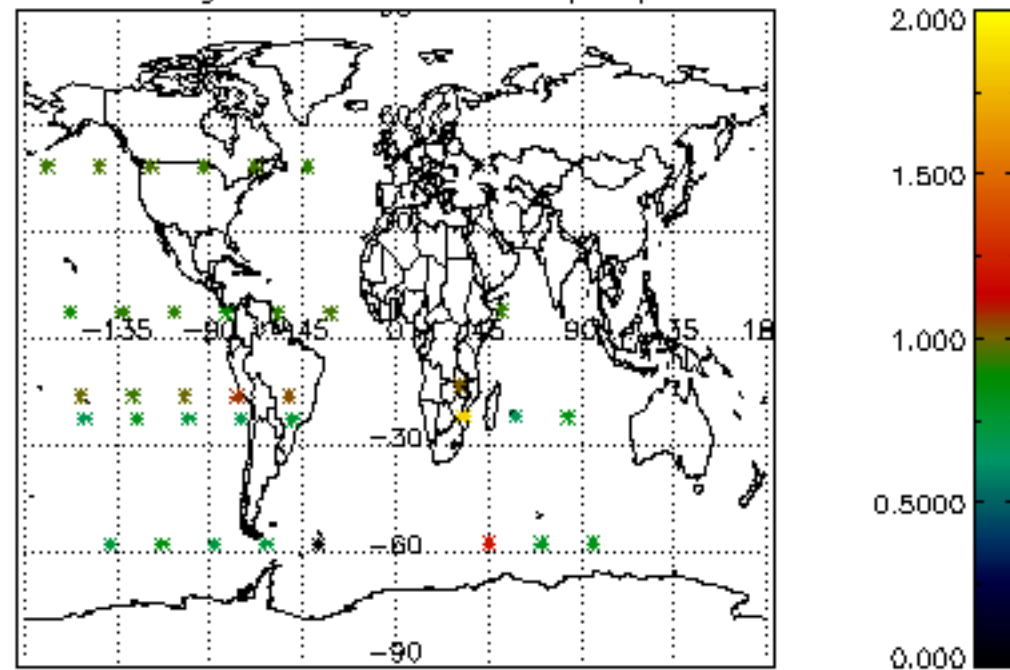




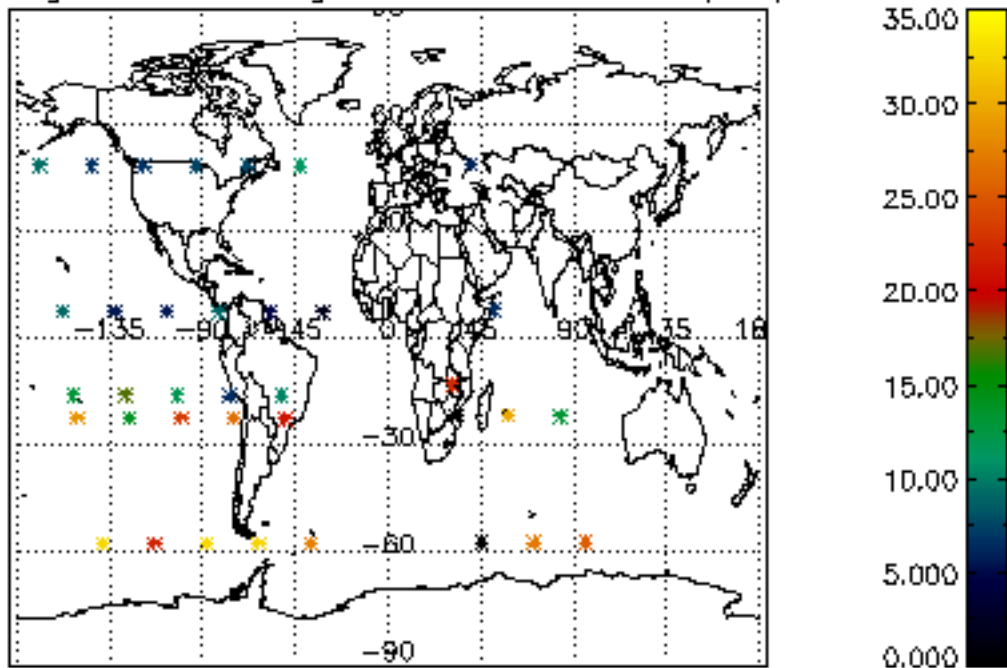
Percentage of cosmic ray hits per profile



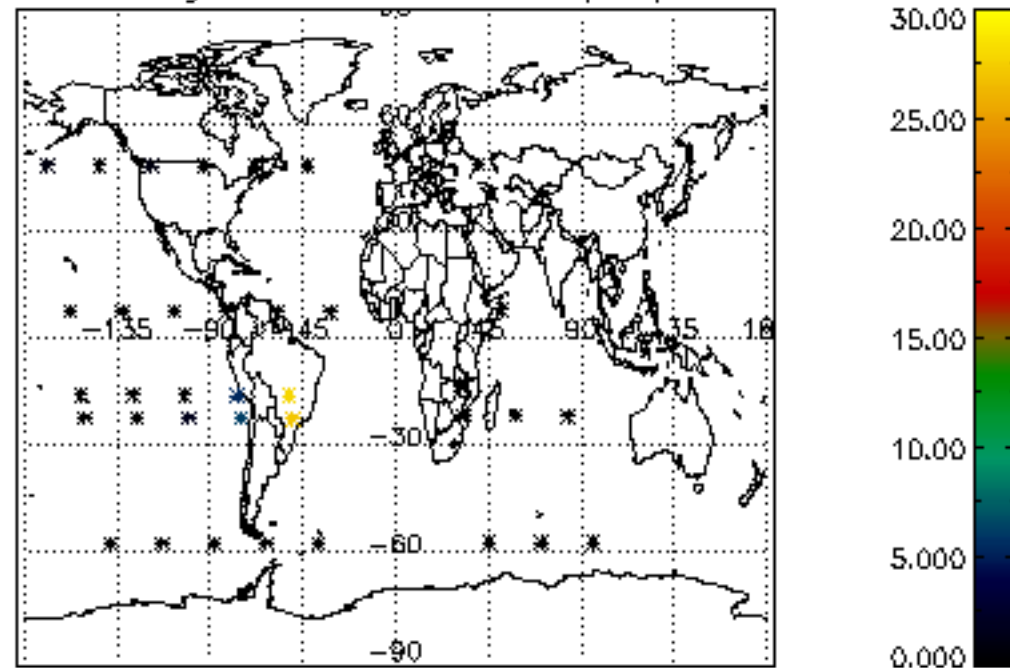
Percentage of datation errors per profile



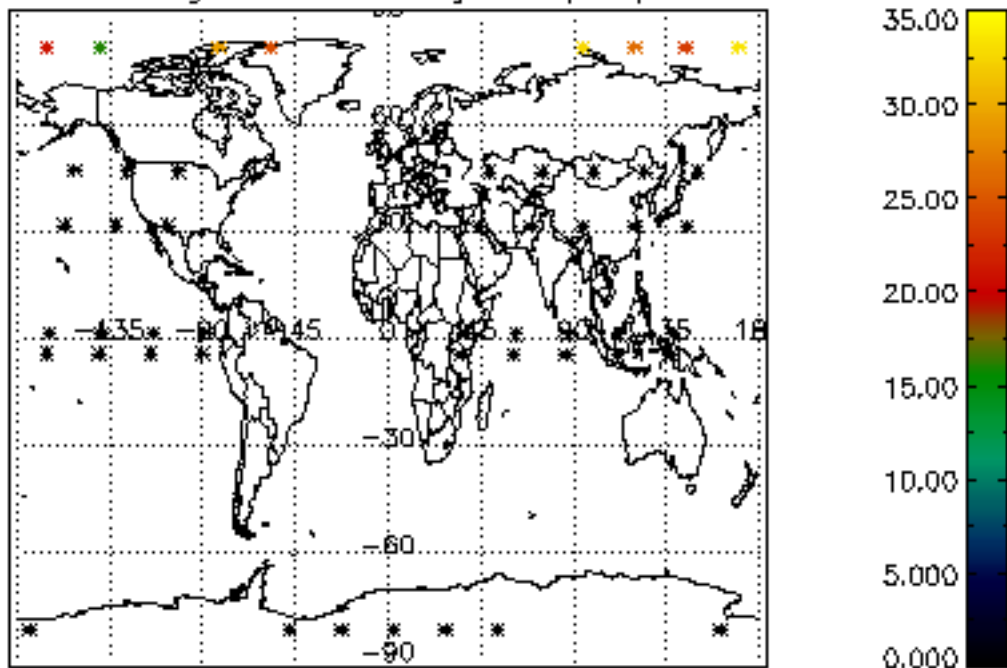
Percentage of star falling outside central band per profile



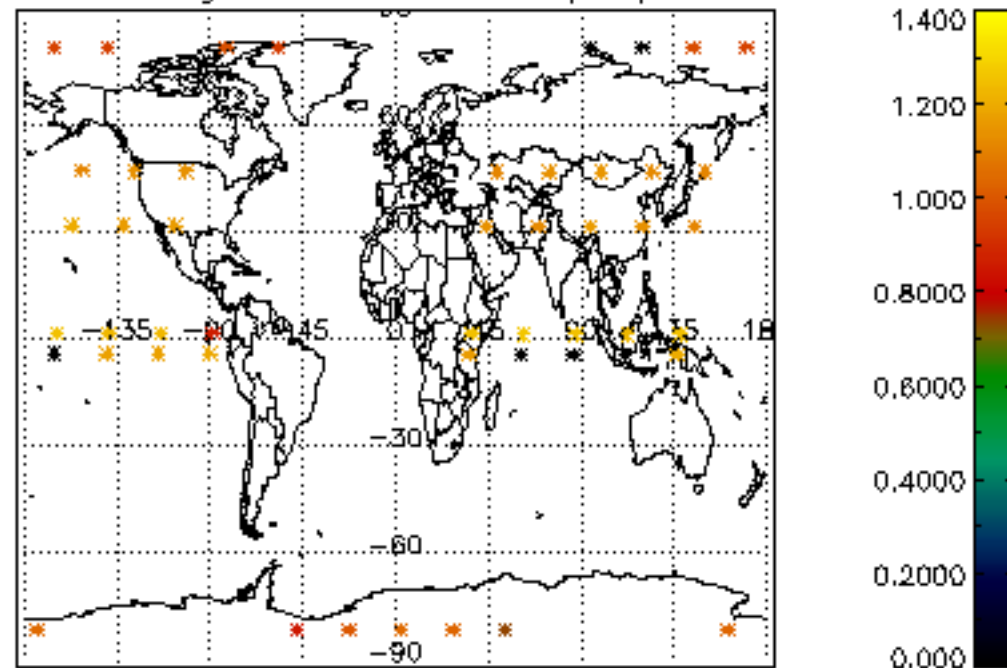
Percentage of saturation errors per profile



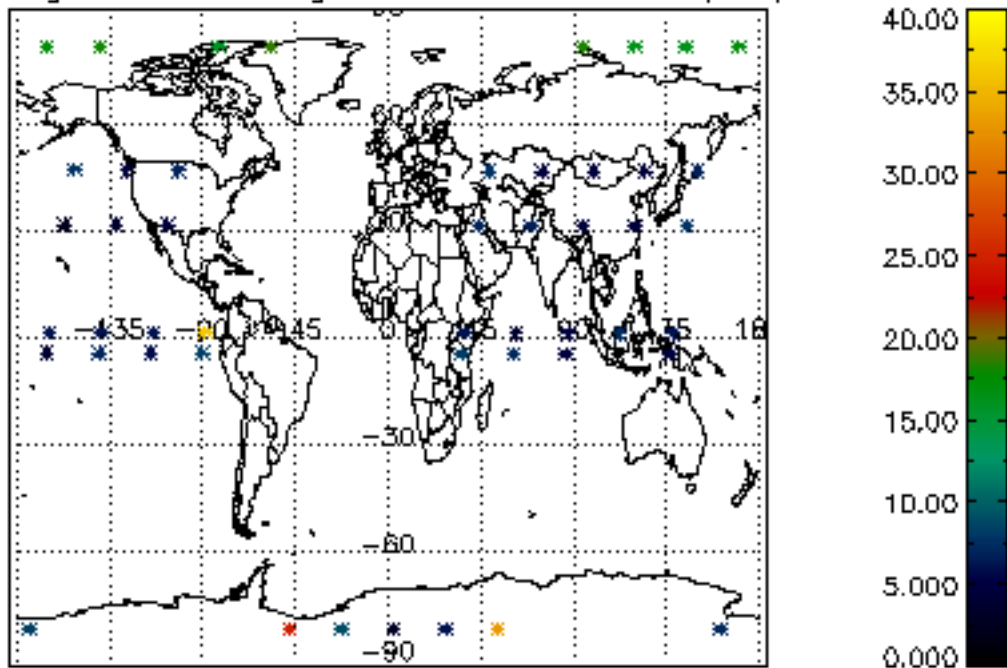
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

