GOMOS Level 2 Daily Report

SUMMARY

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   - 3.1 Plot of level 2 quality information per product (time dependant)
   - 3.2 Plot of level 2 quality information per product (world map)

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5. Ozone profiles based on quality statistics and other trace gas profiles

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   - 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

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1. General info

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	19APR2013 05:27:11
Data source version	GOMOS/6.01
Start time of products	02-07-2004 (02JUL2004 00:00:00)
Stop time of products	03-07-2004 (03JUL2004 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	26
Nb of prods with errors	0

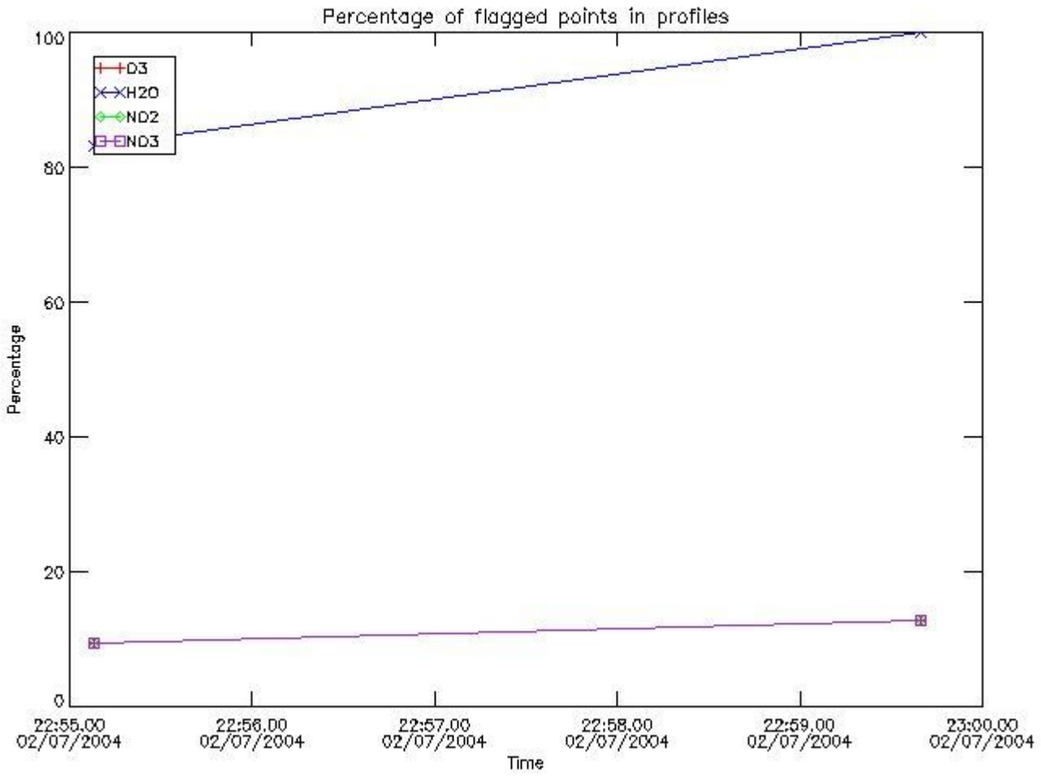
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20040702_225507_000000542028_00159_12237_2194.N1	02-JUL-2004 22:55:07	Dark	54.000	9	Alp Eri	0.45300	24000.	108	12237	No
2	GOM_NL__2PRFIN20040702_225939_000000402028_00159_12237_2195.N1	02-JUL-2004 22:59:39	Dark	40.000	135	Bet Hyi	2.8200	5800.0	80	12237	No
3	GOM_NL__2PRFIN20040702_230253_000000542028_00159_12237_2196.N1	02-JUL-2004 23:02:53	Straylight	53.500	63	Bet Gru	2.1500	2800.0	107	12237	No
4	GOM_NL__2PRFIN20040702_230451_000001012028_00159_12237_2197.N1	02-JUL-2004 23:04:51	Straylight	101.00	18	24Alp PsA	1.1660	9700.0	202	12237	No
5	GOM_NL__2PRFIN20040702_230745_000000592028_00159_12237_2198.N1	02-JUL-2004 23:07:45	Straylight	58.500	172	Gam Gru	3.0030	13100.	117	12237	No
6	GOM_NL__2PRFIN20040702_231037_000000402028_00159_12237_2199.N1	02-JUL-2004 23:10:37	Straylight	39.500	141	Bet Ara	2.8400	4600.0	79	12237	No
7	GOM_NL__2PRFIN20040702_231205_000000392028_00159_12237_2200.N1	02-JUL-2004 23:12:05	Twi_and_stray	38.500	147	Alp Ara	2.8770	26000.	77	12237	No
8	GOM_NL__2PRFIN20040702_231353_000000432028_00159_12237_2201.N1	02-JUL-2004 23:13:53	Twi_and_stray	43.000	40	The Sco	1.8590	7100.0	86	12237	No
9	GOM_NL__2PRFIN20040702_231533_000000412028_00159_12237_2202.N1	02-JUL-2004 23:15:33	Twi_and_stray	41.000	25	35Lam Sco	1.6200	28000.	82	12237	No
10	GOM_NL__2PRFIN20040702_231656_000000512028_00159_12237_2203.N1	02-JUL-2004 23:16:56	Bright	50.500	116	19Del Sgr	2.7000	4100.0	101	12237	No
11	GOM_NL__2PRFIN20040702_231902_000000462028_00159_12237_2204.N1	02-JUL-2004 23:19:02	Bright	46.000	155	41Pi Sgr	2.9000	6600.0	92	12237	No
12	GOM_NL__2PRFIN20040702_232144_000000392028_00159_12237_2205.N1	02-JUL-2004 23:21:44	Bright	38.500	86	35Eta Oph	2.4300	10200.	77	12237	No
13	GOM_NL__2PRFIN20040702_232331_000000382028_00159_12237_2206.N1	02-JUL-2004 23:23:31	Bright	38.000	98	13Zet Oph	2.5710	30000.	76	12237	No
14	GOM_NL__2PRFIN20040702_232542_000000382028_00159_12237_2207.N1	02-JUL-2004 23:25:42	Bright	38.000	120	1Del Oph	2.7340	3200.0	76	12237	No
15	GOM_NL__2PRFIN20040702_232715_000000412028_00159_12237_2208.N1	02-JUL-2004 23:27:15	Bright	41.000	126	60Bet Oph	2.7700	4250.0	82	12237	No
16	GOM_NL__2PRFIN20040702_232934_000000412028_00159_12237_2209.N1	02-JUL-2004 23:29:34	Bright	40.500	59	55Alp Oph	2.0800	8900.0	81	12237	No
17	GOM_NL__2PRFIN20040702_233222_000000412028_00159_12237_2210.N1	02-JUL-2004 23:32:22	Bright	41.000	127	27Bet Her	2.7810	4700.0	82	12237	No
18	GOM_NL__2PRFIN20040702_233506_000000392028_00159_12237_2211.N1	02-JUL-2004 23:35:06	Bright	39.000	133	40Zet Her	2.8070	6000.0	78	12237	No
19	GOM_NL__2PRFIN20040702_233813_000000482028_00159_12237_2212.N1	02-JUL-2004 23:38:13	Bright	48.000	5	3Alp Lyr	0.033000	11000.	96	12237	No
20	GOM_NL__2PRFIN20040702_234100_000000362028_00159_12237_2213.N1	02-JUL-2004 23:41:00	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	12237	No
21	GOM_NL__2PRFIN20040702_234329_000000392028_00159_12237_2214.N1	02-JUL-2004 23:43:29	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	12237	No
22	GOM_NL__2PRFIN20040702_234731_000000402028_00159_12237_2215.N1	02-JUL-2004 23:47:31	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	12237	No
23	GOM_NL__2PRFIN20040702_234938_000000482028_00159_12237_2216.N1	02-JUL-2004 23:49:38	Bright	47.500	89	5Alp Cep	2.4510	8000.0	95	12237	No
24	GOM_NL__2PRFIN20040702_235138_000000392028_00159_12237_2217.N1	02-JUL-2004 23:51:38	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	12237	No
25	GOM_NL__2PRFIN20040702_235704_000000512028_00159_12237_2218.N1	02-JUL-2004 23:57:04	Bright	50.500	74	11Bet Cas	2.2680	6600.0	101	12237	No
26	GOM_NL__2PRFIN20040702_235844_000000612028_00159_12237_2219.N1	02-JUL-2004 23:58:44	Bright	61.000	110	37Del Cas	2.6780	8900.0	122	12237	No

3. Quality information per product

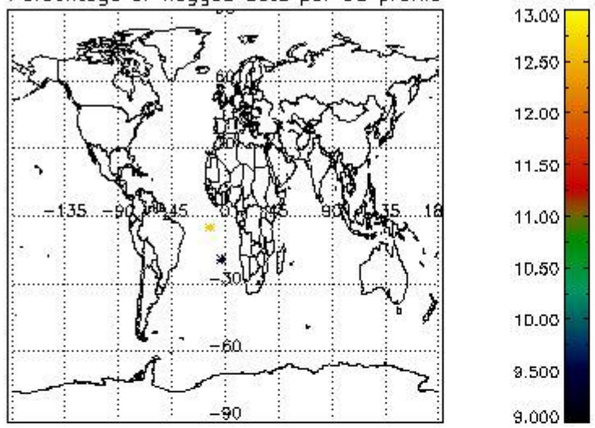
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

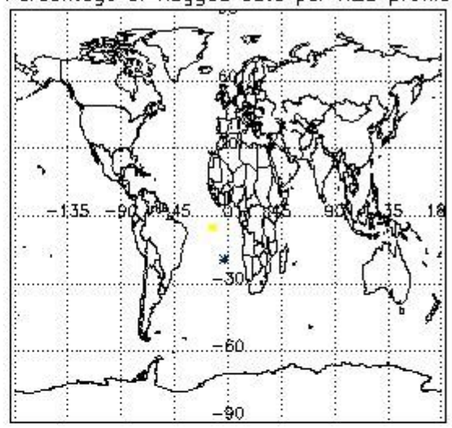


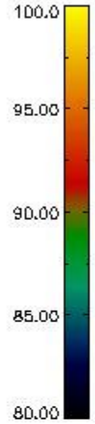
3.2 Plot quality information per product (world map)

Percentage of flagged data per O3 profile

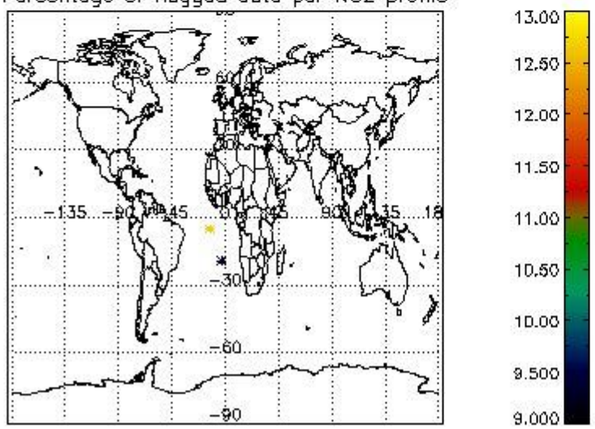


Percentage of flagged data per H2O profile

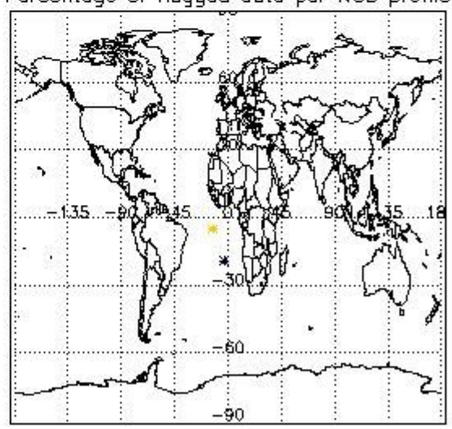


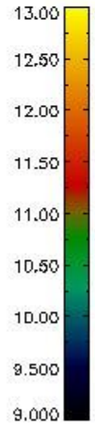


Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile



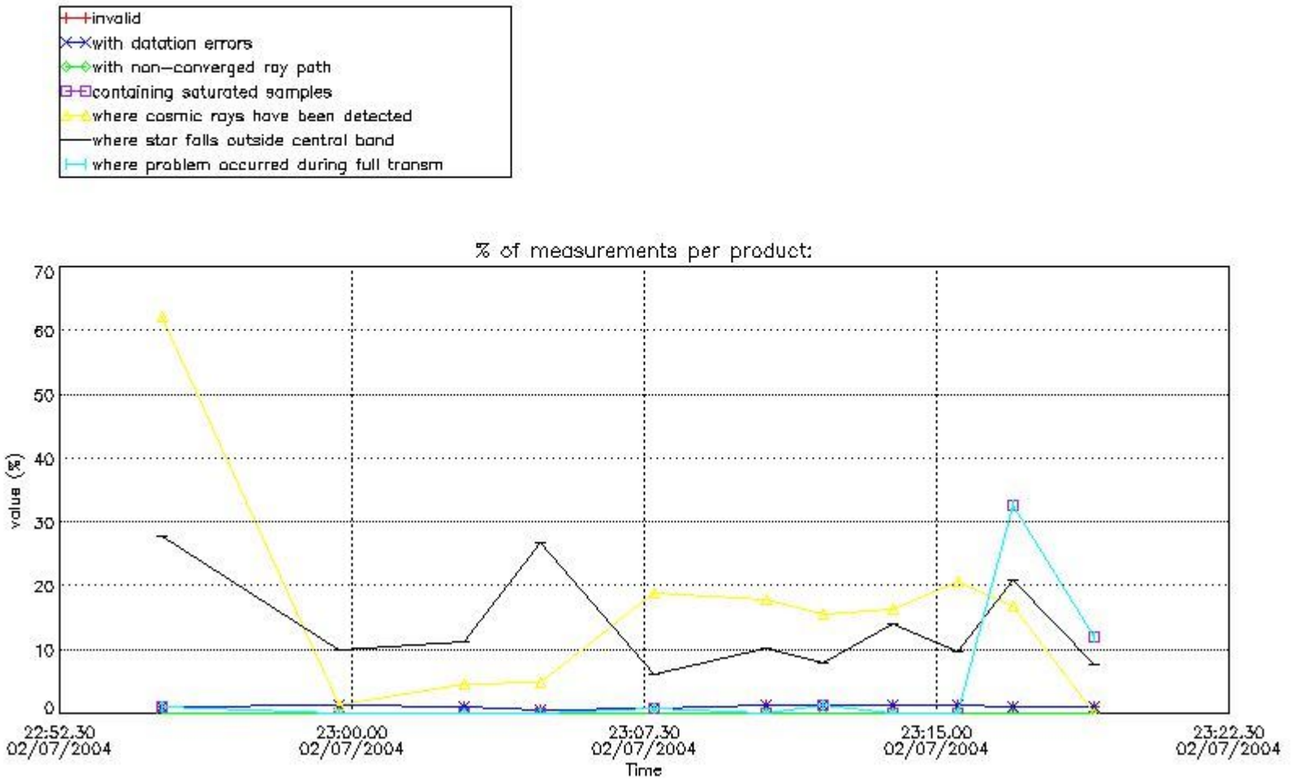


4. Level 1 quality information per product

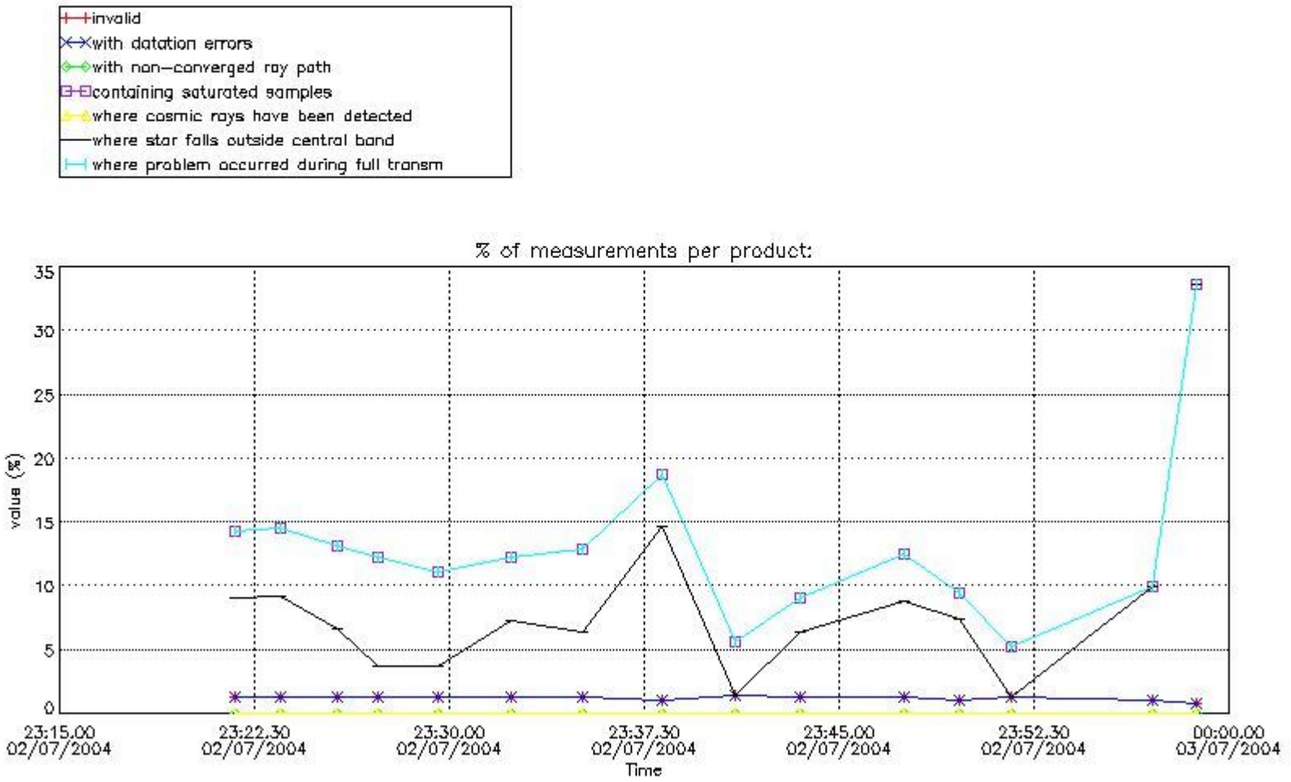
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processsing. Products without errors (error flag in the MPH set to "0") are used.

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

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

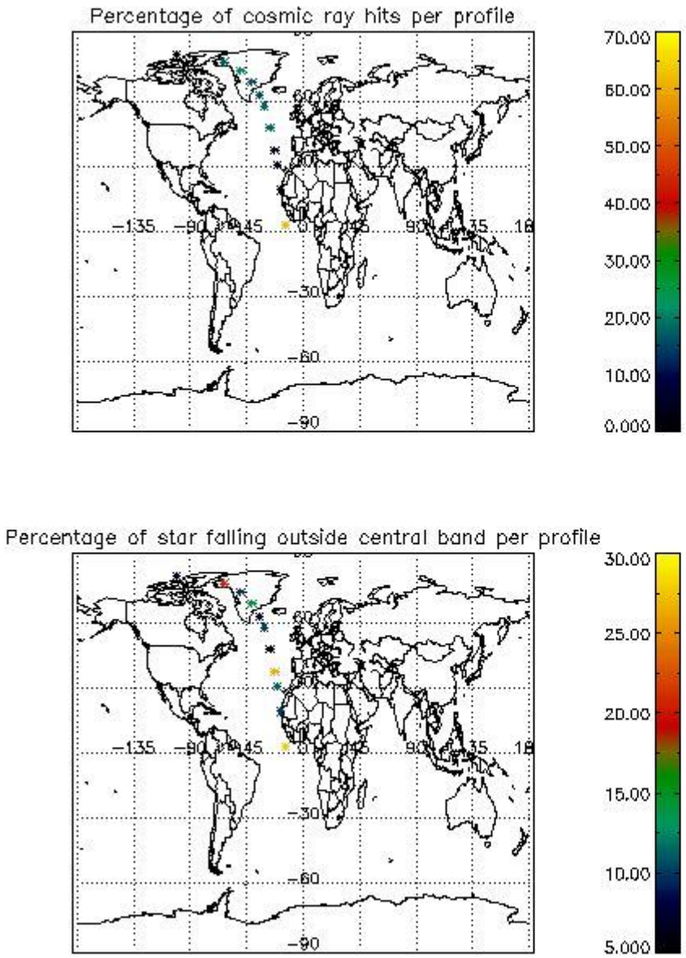


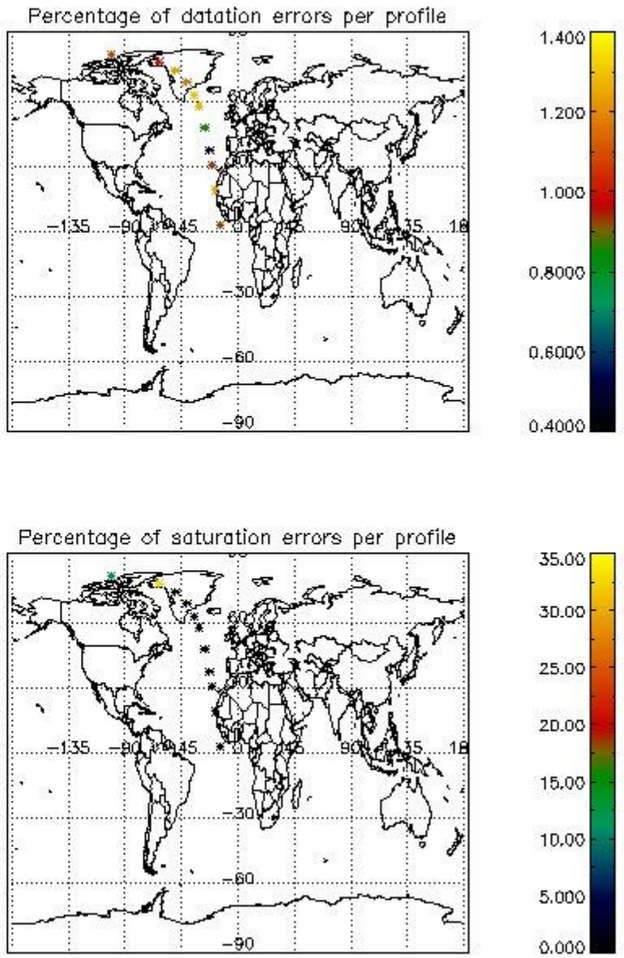
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



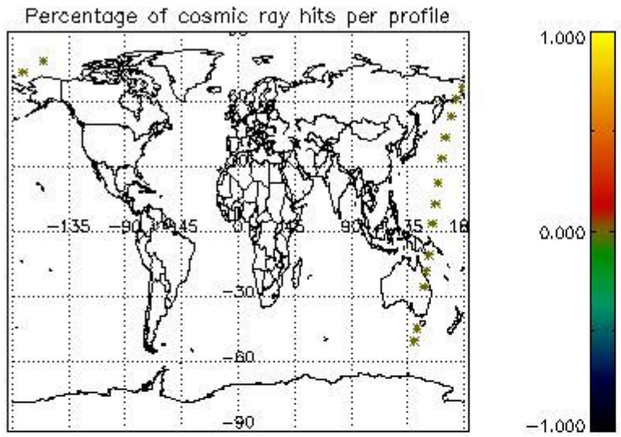
4.2 Plot quality information per product comming from level 1b processing (world map)

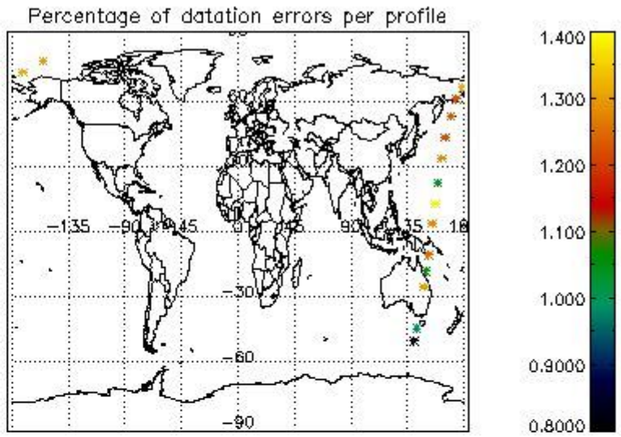
4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes

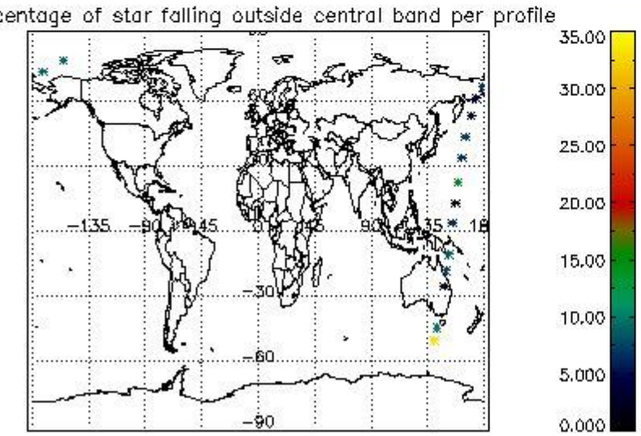


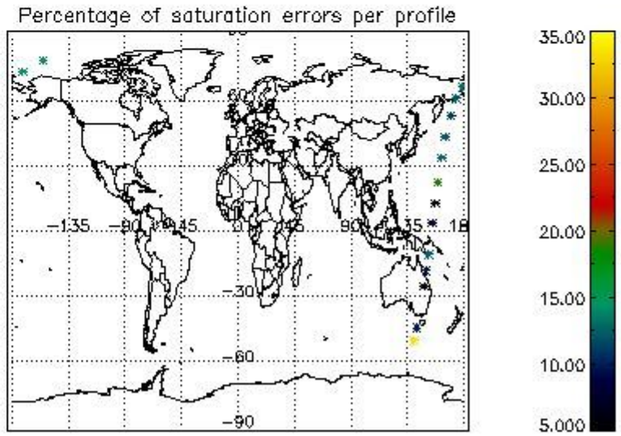


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes









5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile.
This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

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

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

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

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
    - Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

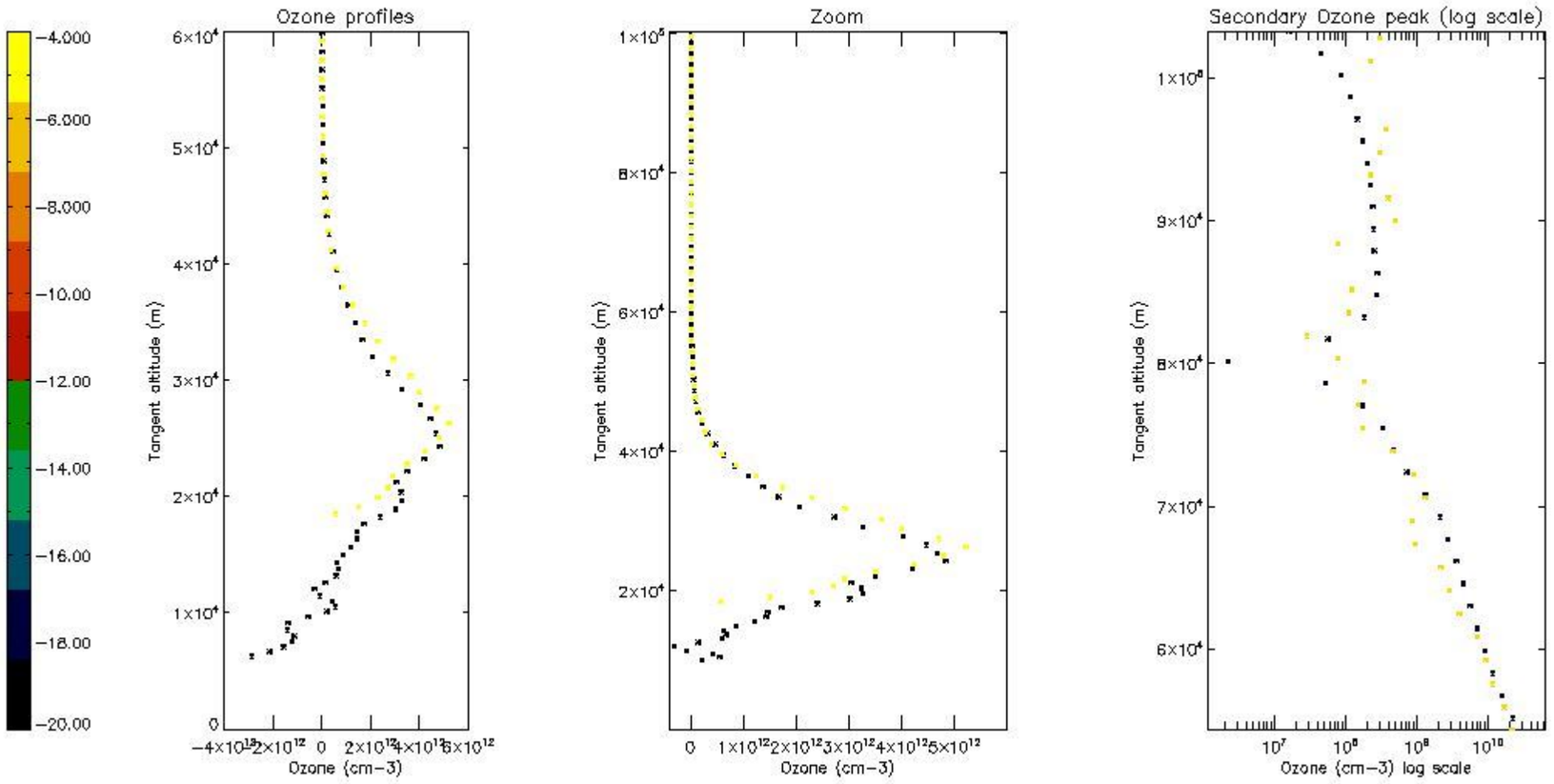
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	8
STD < 20	4

STD < 10	4
STD < 5	3

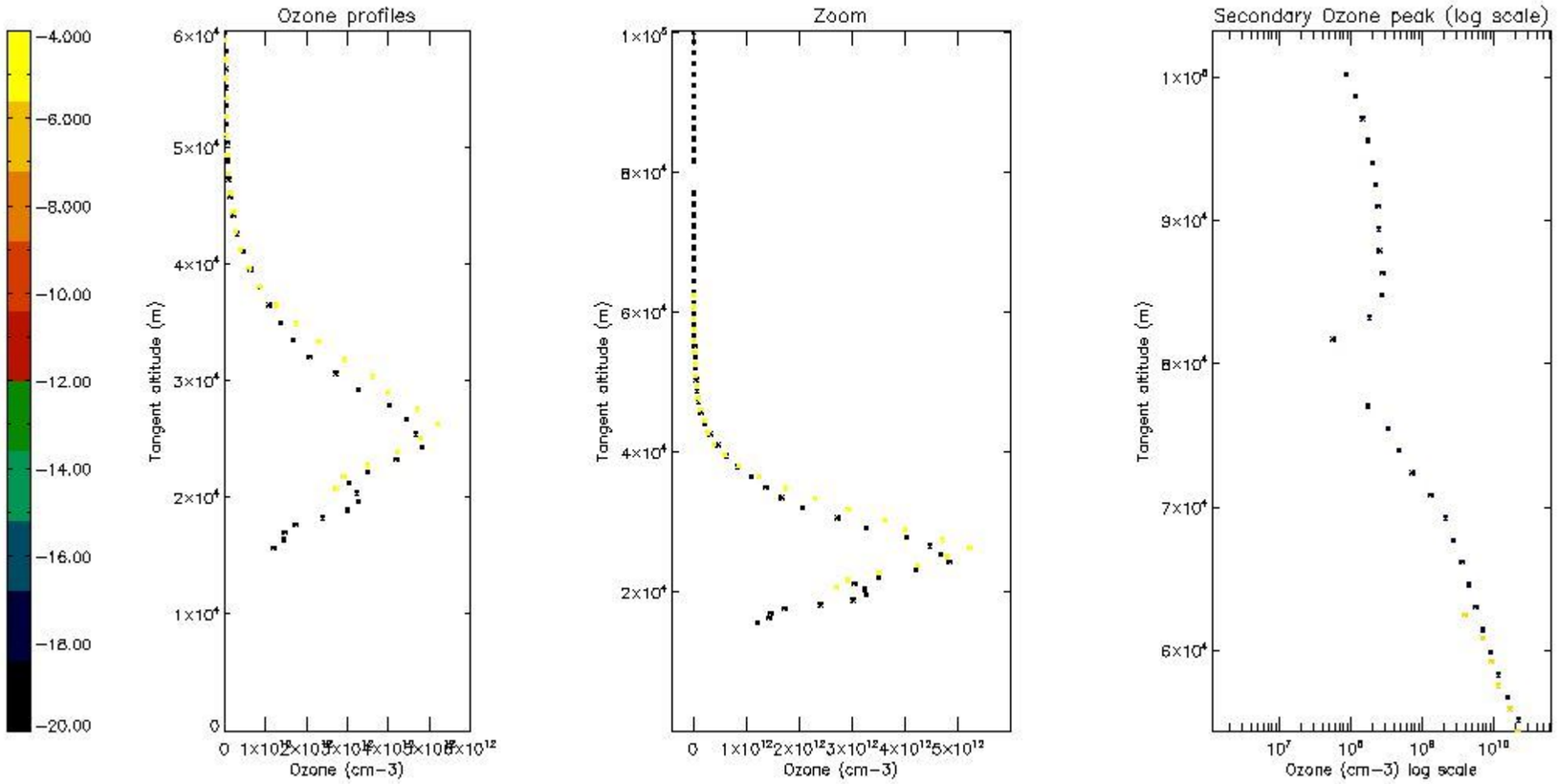
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



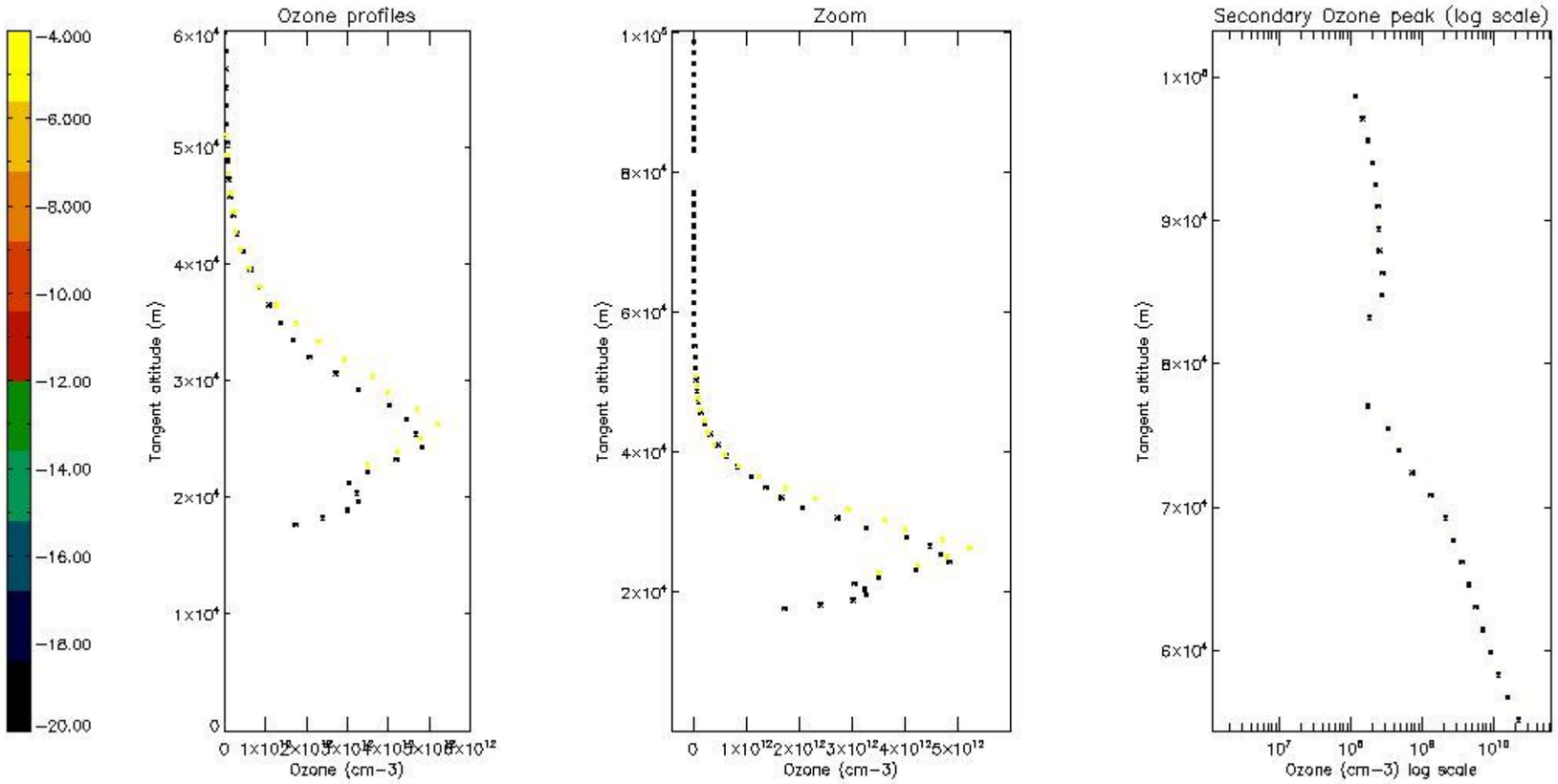
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



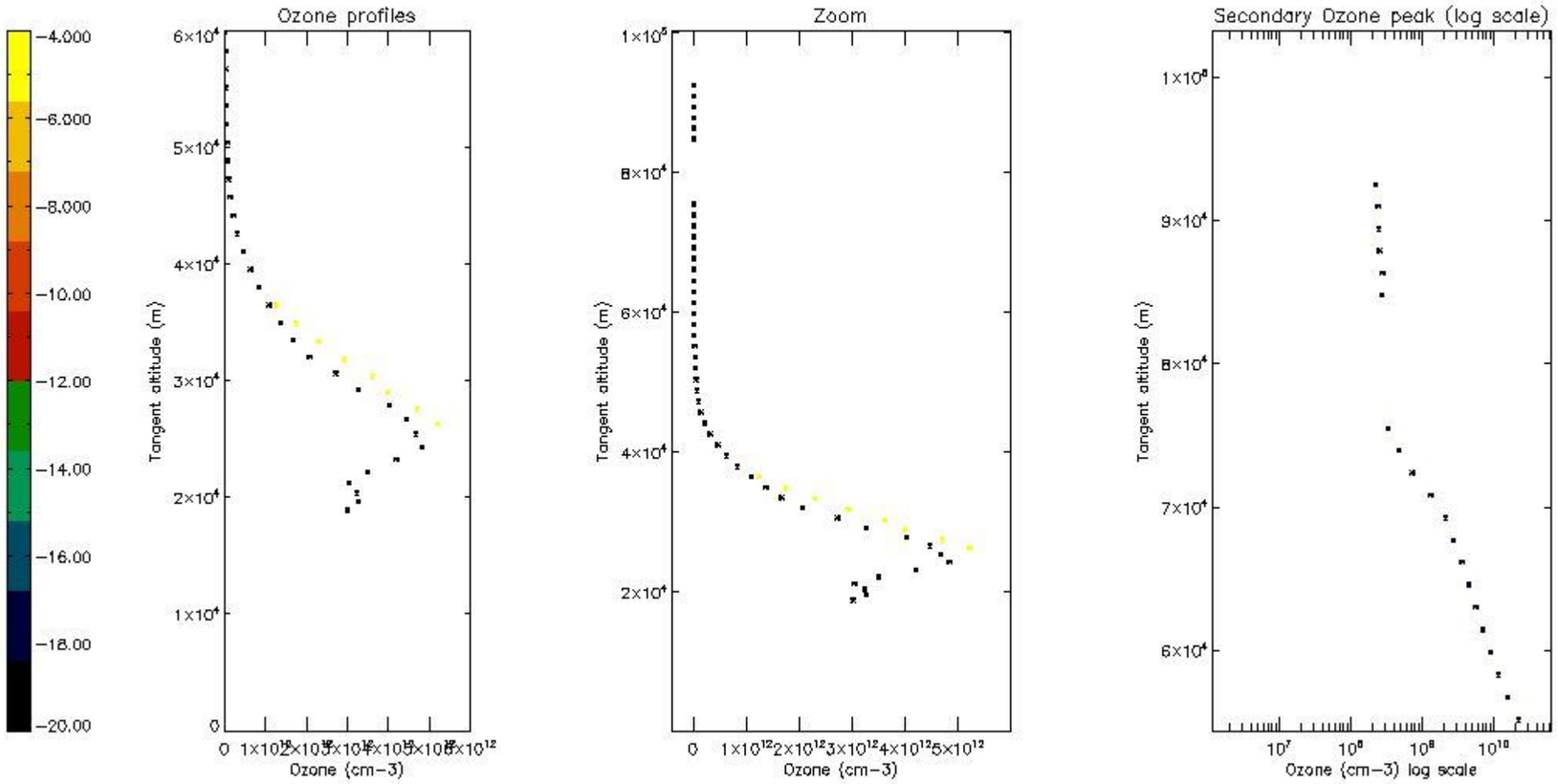
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



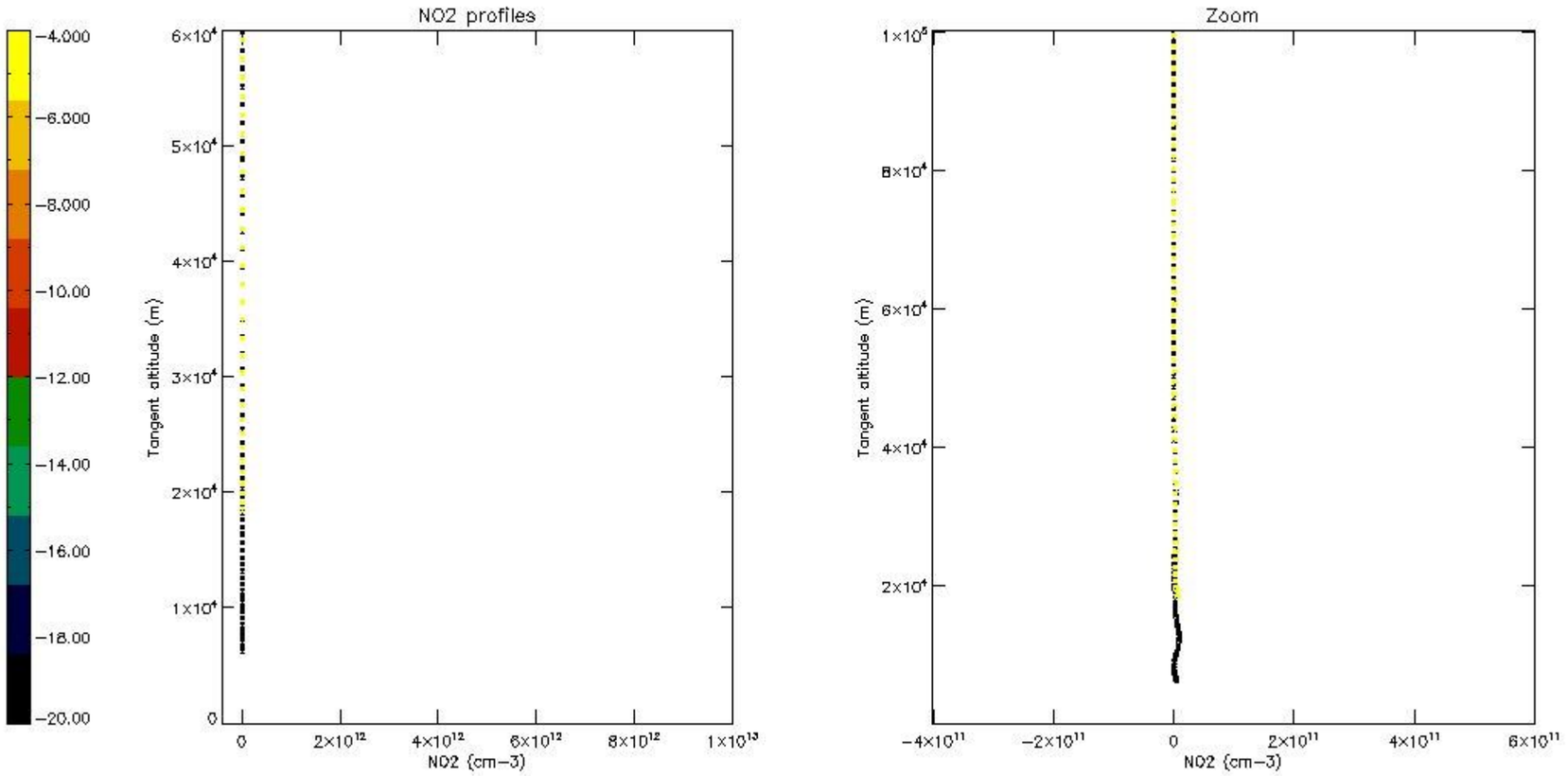
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



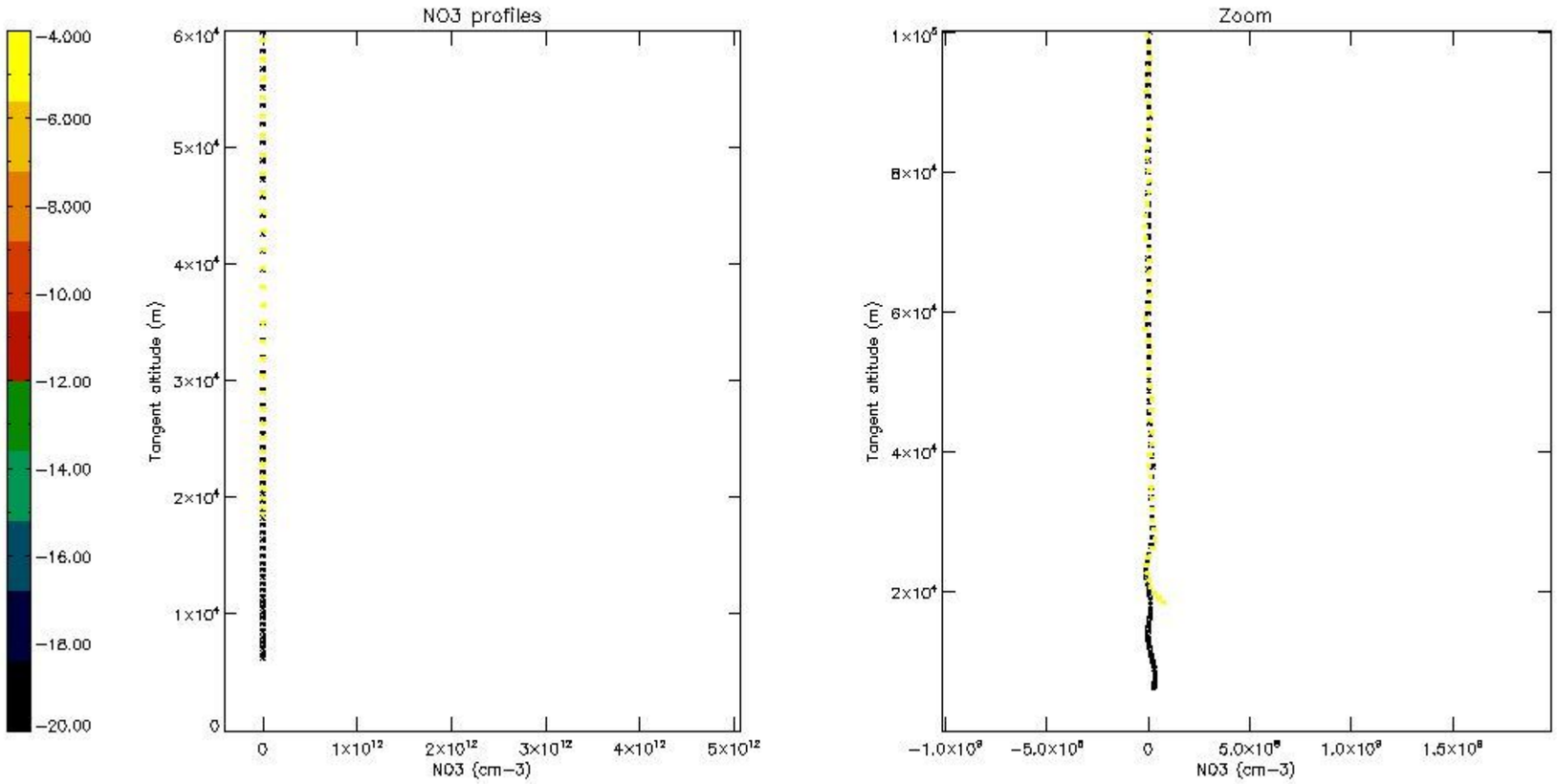
5.6 Plot NO2 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	02-JUL-2004 22:55:07
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	02-JUL-2004 22:55:07
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	02-JUL-2004 22:55:07

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   - 3.2 Plot of level 2 quality information per product (world map)

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   - 4.1 Plot of level 1 quality information per product (time dependant)
     - 4.1.1 Plot of level 1 quality information per product (time dependant): ASCENDING
     - 4.1.2 Plot of level 1 quality information per product (time dependant): DESCENDING
   - 4.2 Plot of level 1 quality information per product (world map)
     - 4.2.1 Plot of level 1 quality information per product (world map): ASCENDING
     - 4.2.2 Plot of level 1 quality information per product (world map): DESCENDING

5. Ozone profiles based on quality statistics and other trace gas profiles

   - 5.1 Ozone statistics based on quality of products

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

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

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

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

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

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

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1. General info

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	19APR2013 05:27:11
Data source version	GOMOS/6.01
Start time of products	02-07-2004 (02JUL2004 00:00:00)
Stop time of products	03-07-2004 (03JUL2004 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	26
Nb of prods with errors	0

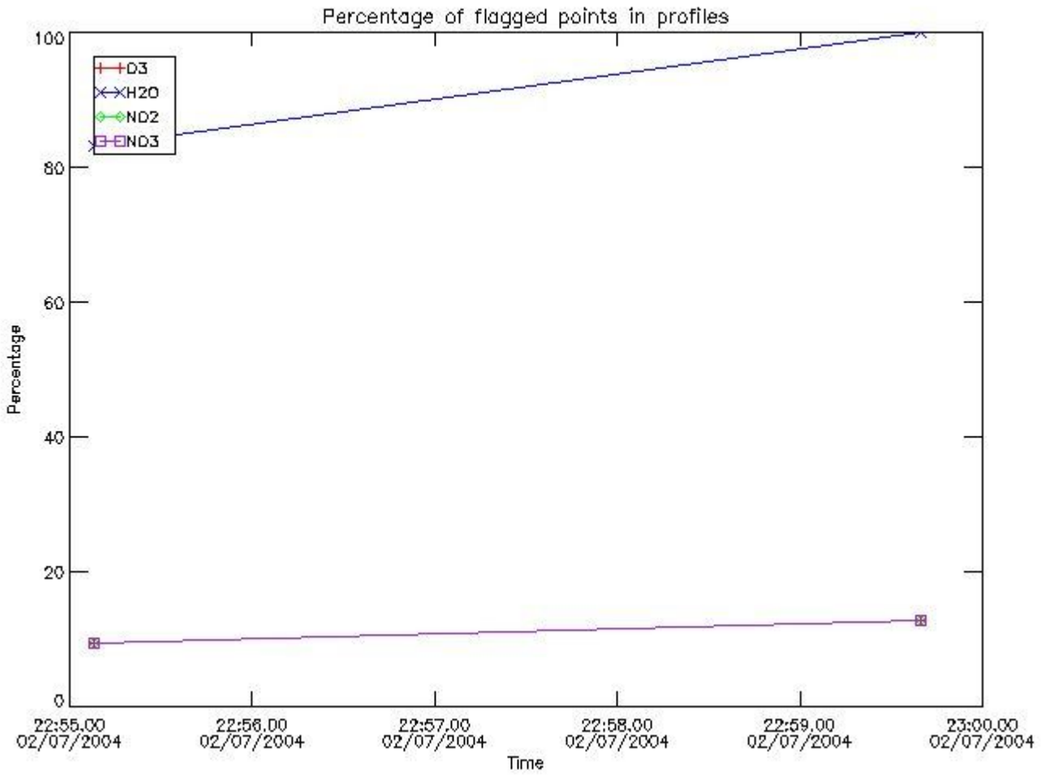
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20040702_225507_000000542028_00159_12237_2194.N1	02-JUL-2004 22:55:07	Dark	54.000	9	Alp Eri	0.45300	24000.	108	12237	No
2	GOM_NL__2PRFIN20040702_225939_000000402028_00159_12237_2195.N1	02-JUL-2004 22:59:39	Dark	40.000	135	Bet Hyi	2.8200	5800.0	80	12237	No
3	GOM_NL__2PRFIN20040702_230253_000000542028_00159_12237_2196.N1	02-JUL-2004 23:02:53	Straylight	53.500	63	Bet Gru	2.1500	2800.0	107	12237	No
4	GOM_NL__2PRFIN20040702_230451_000001012028_00159_12237_2197.N1	02-JUL-2004 23:04:51	Straylight	101.00	18	24Alp PsA	1.1660	9700.0	202	12237	No
5	GOM_NL__2PRFIN20040702_230745_000000592028_00159_12237_2198.N1	02-JUL-2004 23:07:45	Straylight	58.500	172	Gam Gru	3.0030	13100.	117	12237	No
6	GOM_NL__2PRFIN20040702_231037_000000402028_00159_12237_2199.N1	02-JUL-2004 23:10:37	Straylight	39.500	141	Bet Ara	2.8400	4600.0	79	12237	No
7	GOM_NL__2PRFIN20040702_231205_000000392028_00159_12237_2200.N1	02-JUL-2004 23:12:05	Twi_and_stray	38.500	147	Alp Ara	2.8770	26000.	77	12237	No
8	GOM_NL__2PRFIN20040702_231353_000000432028_00159_12237_2201.N1	02-JUL-2004 23:13:53	Twi_and_stray	43.000	40	The Sco	1.8590	7100.0	86	12237	No
9	GOM_NL__2PRFIN20040702_231533_000000412028_00159_12237_2202.N1	02-JUL-2004 23:15:33	Twi_and_stray	41.000	25	35Lam Sco	1.6200	28000.	82	12237	No
10	GOM_NL__2PRFIN20040702_231656_000000512028_00159_12237_2203.N1	02-JUL-2004 23:16:56	Bright	50.500	116	19Del Sgr	2.7000	4100.0	101	12237	No
11	GOM_NL__2PRFIN20040702_231902_000000462028_00159_12237_2204.N1	02-JUL-2004 23:19:02	Bright	46.000	155	41Pi Sgr	2.9000	6600.0	92	12237	No
12	GOM_NL__2PRFIN20040702_232144_000000392028_00159_12237_2205.N1	02-JUL-2004 23:21:44	Bright	38.500	86	35Eta Oph	2.4300	10200.	77	12237	No
13	GOM_NL__2PRFIN20040702_232331_000000382028_00159_12237_2206.N1	02-JUL-2004 23:23:31	Bright	38.000	98	13Zet Oph	2.5710	30000.	76	12237	No
14	GOM_NL__2PRFIN20040702_232542_000000382028_00159_12237_2207.N1	02-JUL-2004 23:25:42	Bright	38.000	120	1Del Oph	2.7340	3200.0	76	12237	No
15	GOM_NL__2PRFIN20040702_232715_000000412028_00159_12237_2208.N1	02-JUL-2004 23:27:15	Bright	41.000	126	60Bet Oph	2.7700	4250.0	82	12237	No
16	GOM_NL__2PRFIN20040702_232934_000000412028_00159_12237_2209.N1	02-JUL-2004 23:29:34	Bright	40.500	59	55Alp Oph	2.0800	8900.0	81	12237	No
17	GOM_NL__2PRFIN20040702_233222_000000412028_00159_12237_2210.N1	02-JUL-2004 23:32:22	Bright	41.000	127	27Bet Her	2.7810	4700.0	82	12237	No
18	GOM_NL__2PRFIN20040702_233506_000000392028_00159_12237_2211.N1	02-JUL-2004 23:35:06	Bright	39.000	133	40Zet Her	2.8070	6000.0	78	12237	No
19	GOM_NL__2PRFIN20040702_233813_000000482028_00159_12237_2212.N1	02-JUL-2004 23:38:13	Bright	48.000	5	3Alp Lyr	0.033000	11000.	96	12237	No
20	GOM_NL__2PRFIN20040702_234100_000000362028_00159_12237_2213.N1	02-JUL-2004 23:41:00	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	12237	No
21	GOM_NL__2PRFIN20040702_234329_000000392028_00159_12237_2214.N1	02-JUL-2004 23:43:29	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	12237	No
22	GOM_NL__2PRFIN20040702_234731_000000402028_00159_12237_2215.N1	02-JUL-2004 23:47:31	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	12237	No
23	GOM_NL__2PRFIN20040702_234938_000000482028_00159_12237_2216.N1	02-JUL-2004 23:49:38	Bright	47.500	89	5Alp Cep	2.4510	8000.0	95	12237	No
24	GOM_NL__2PRFIN20040702_235138_000000392028_00159_12237_2217.N1	02-JUL-2004 23:51:38	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	12237	No
25	GOM_NL__2PRFIN20040702_235704_000000512028_00159_12237_2218.N1	02-JUL-2004 23:57:04	Bright	50.500	74	11Bet Cas	2.2680	6600.0	101	12237	No
26	GOM_NL__2PRFIN20040702_235844_000000612028_00159_12237_2219.N1	02-JUL-2004 23:58:44	Bright	61.000	110	37Del Cas	2.6780	8900.0	122	12237	No

3. Quality information per product

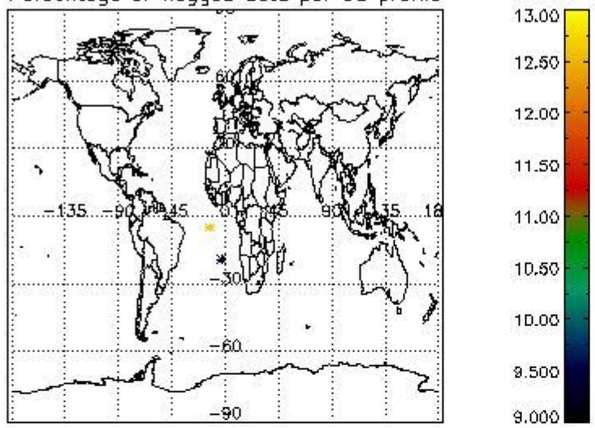
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

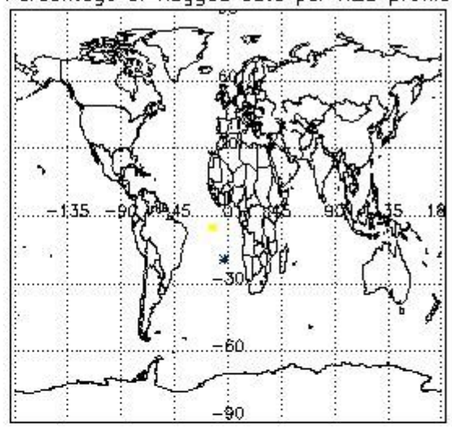


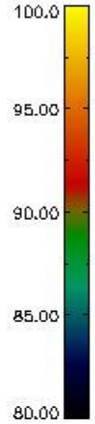
3.2 Plot quality information per product (world map)

Percentage of flagged data per O3 profile

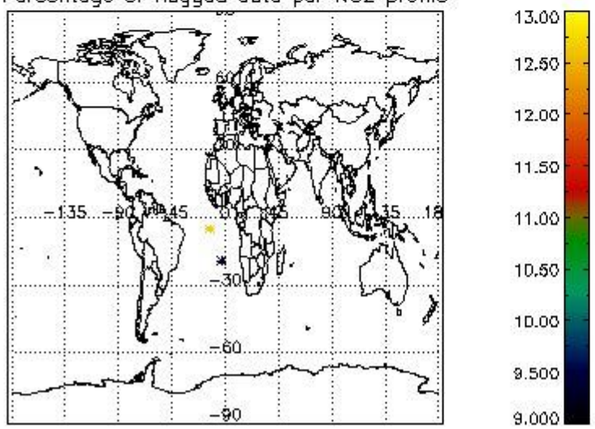


Percentage of flagged data per H2O profile

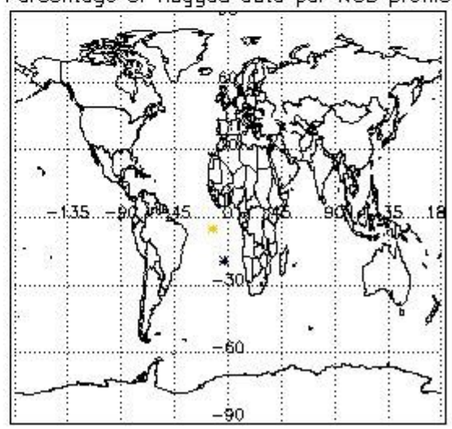


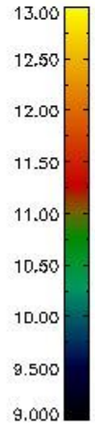


Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile



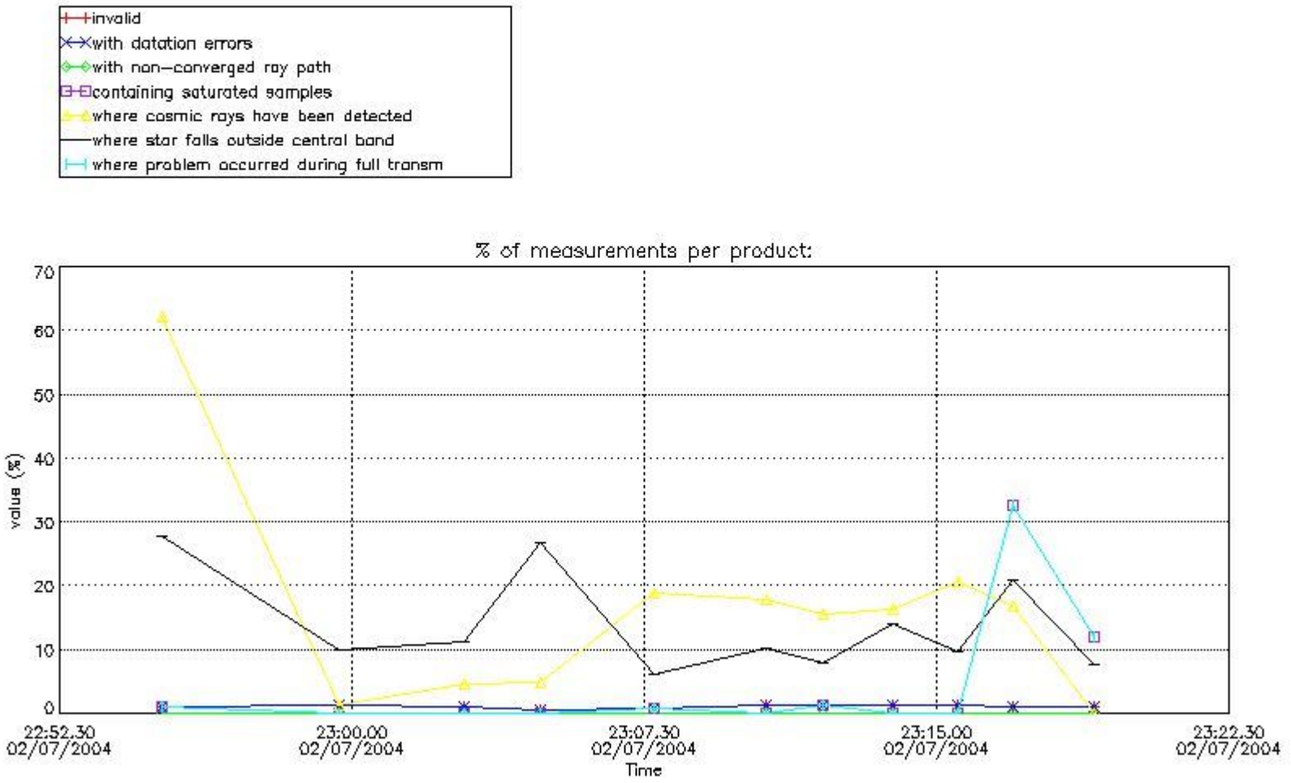


4. Level 1 quality information per product

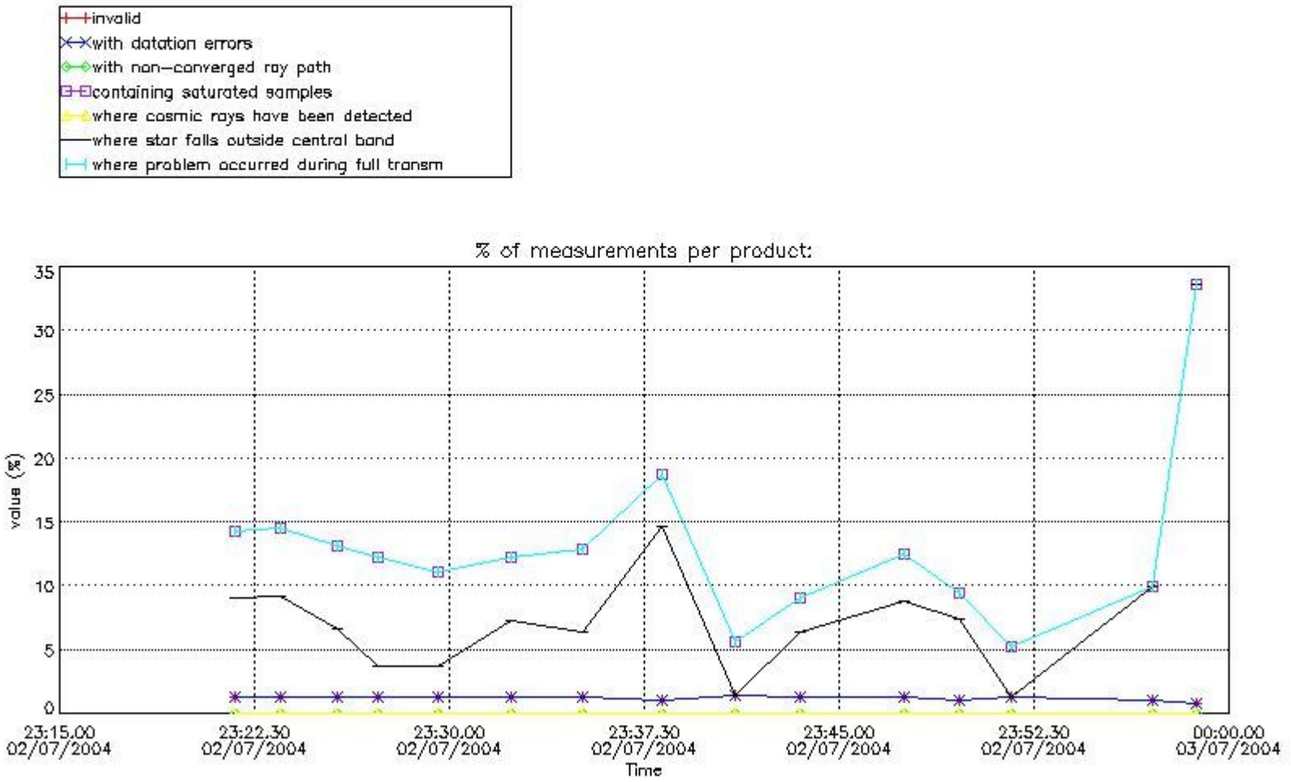
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processsing. Products without errors (error flag in the MPH set to "0") are used.

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

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

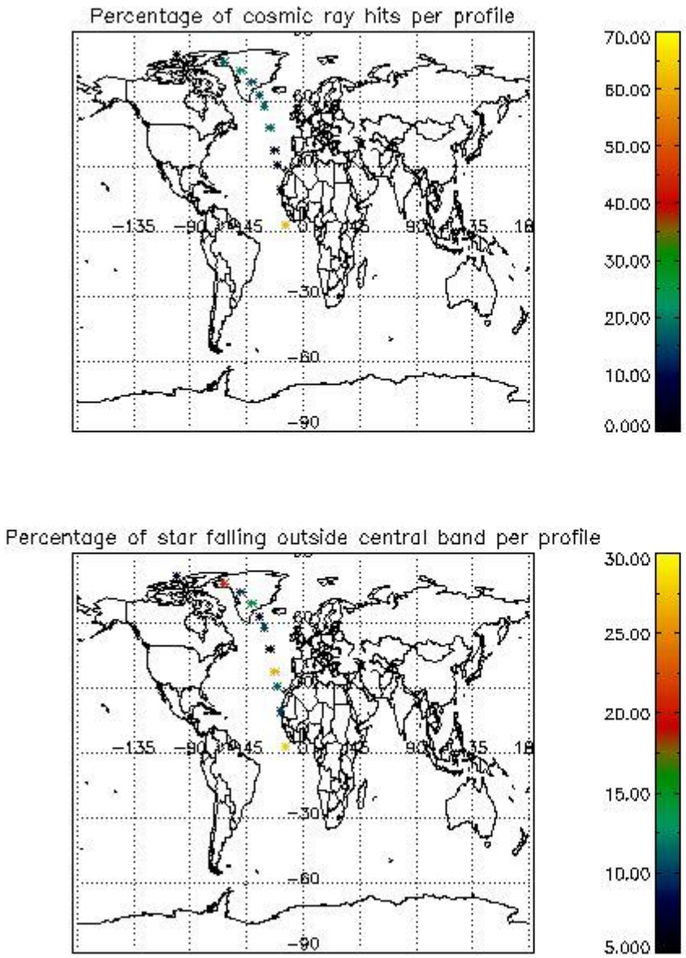


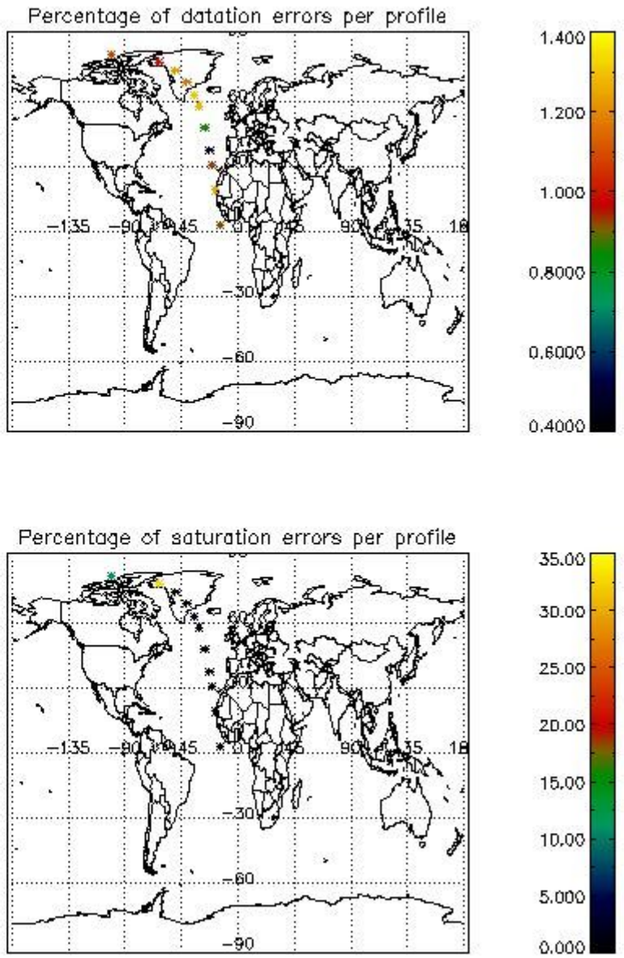
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



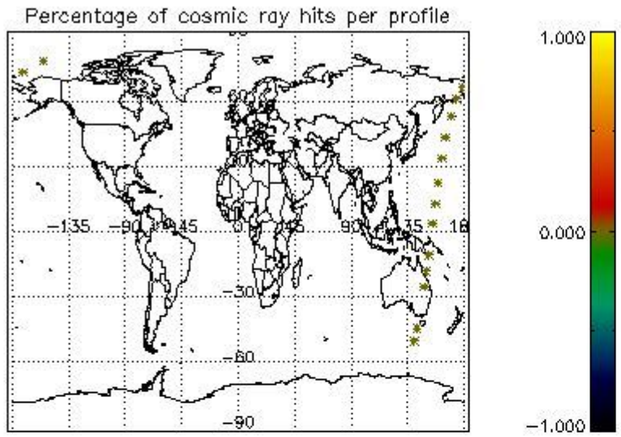
4.2 Plot quality information per product comming from level 1b processing (world map)

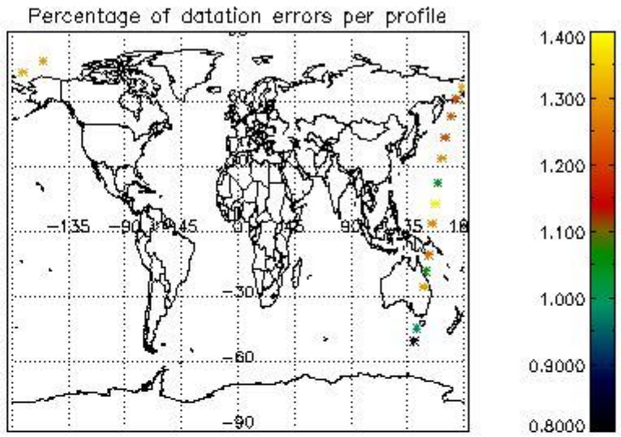
4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes

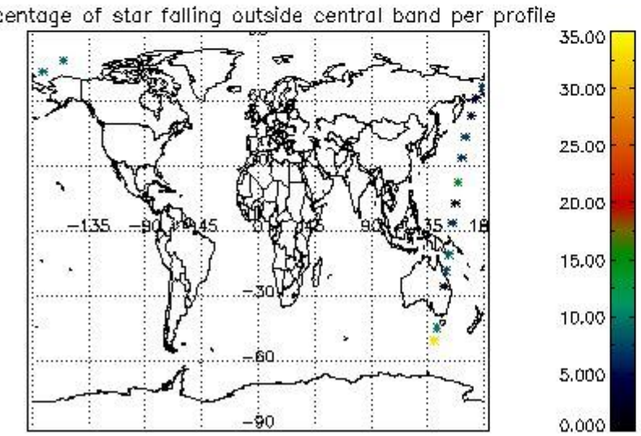


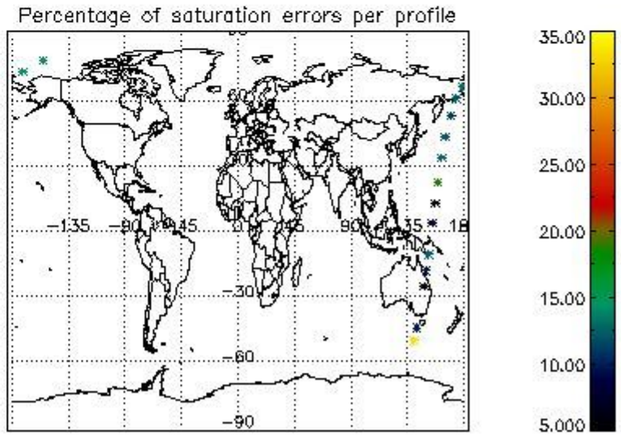


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes









5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile.
This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

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

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

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

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
    - Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

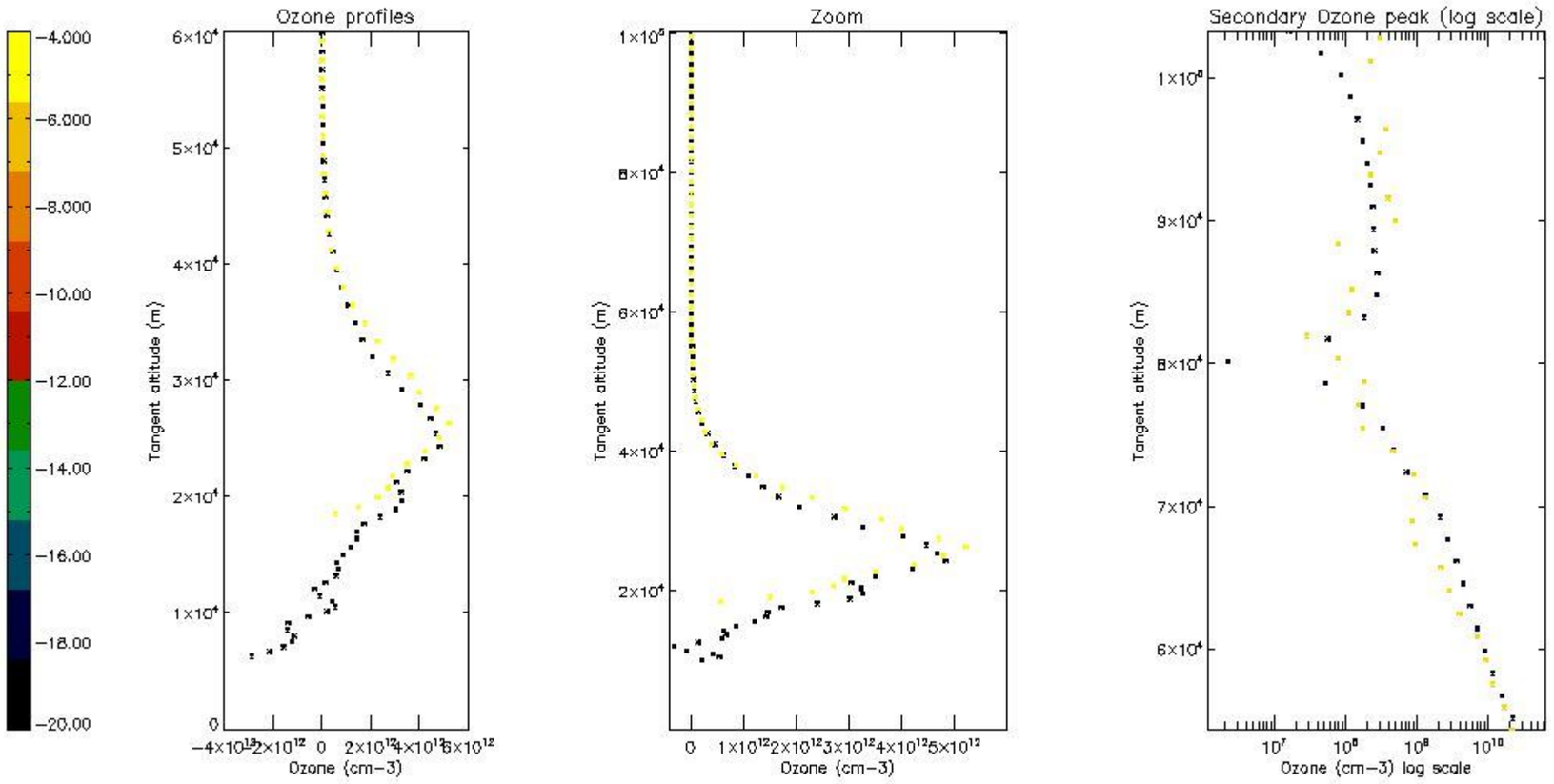
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	8
STD < 20	4

STD < 10	4
STD < 5	3

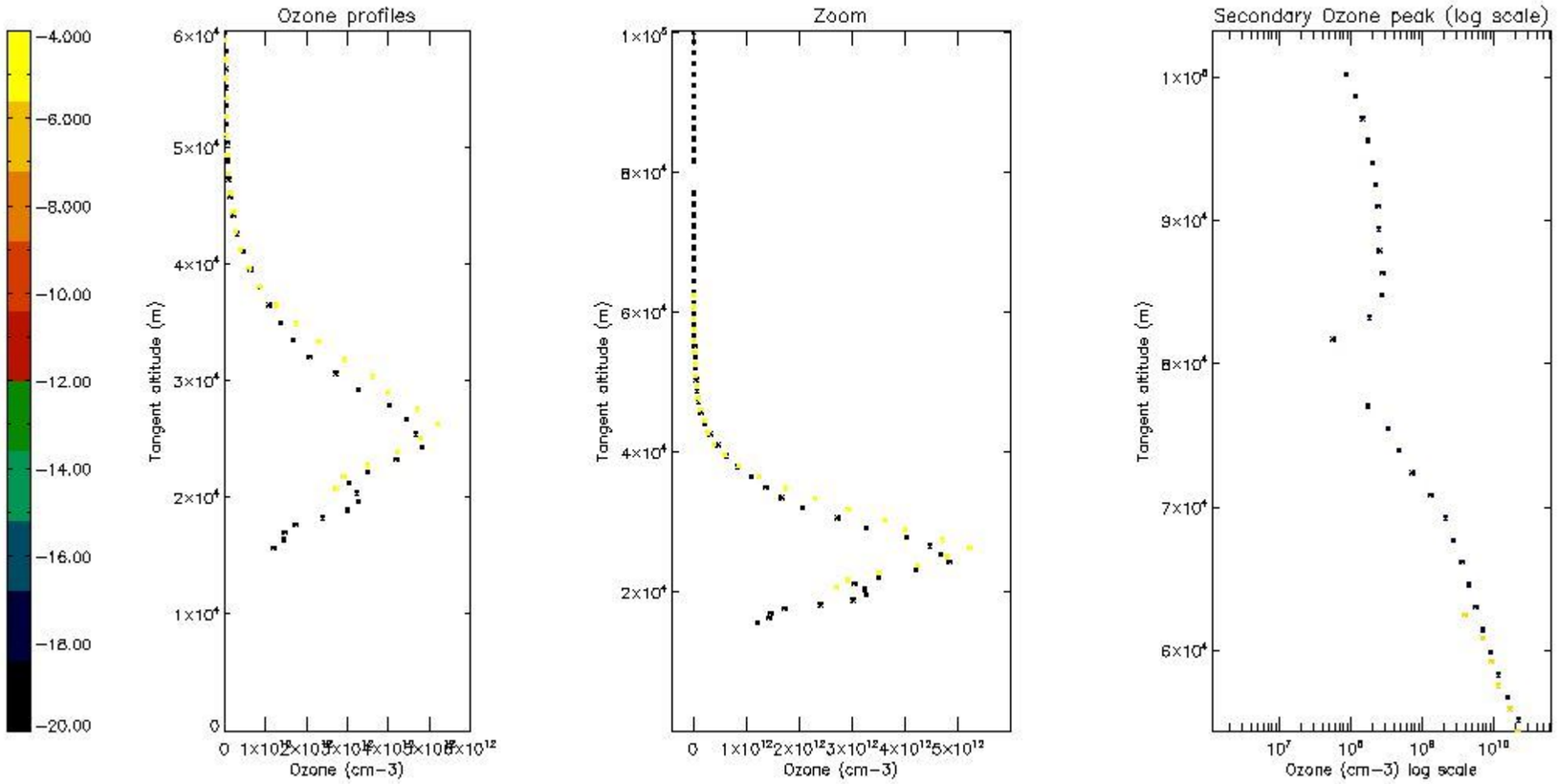
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



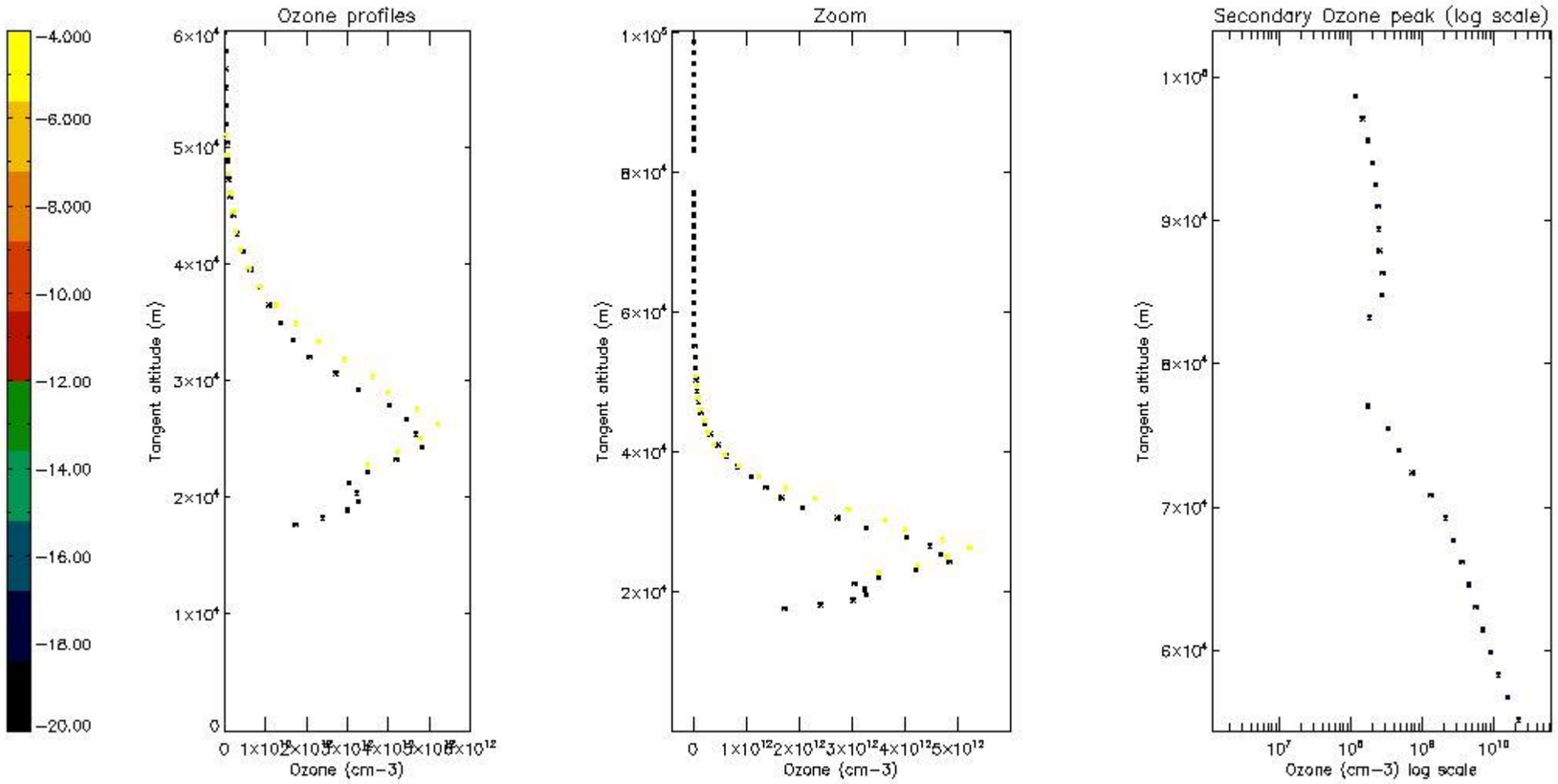
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



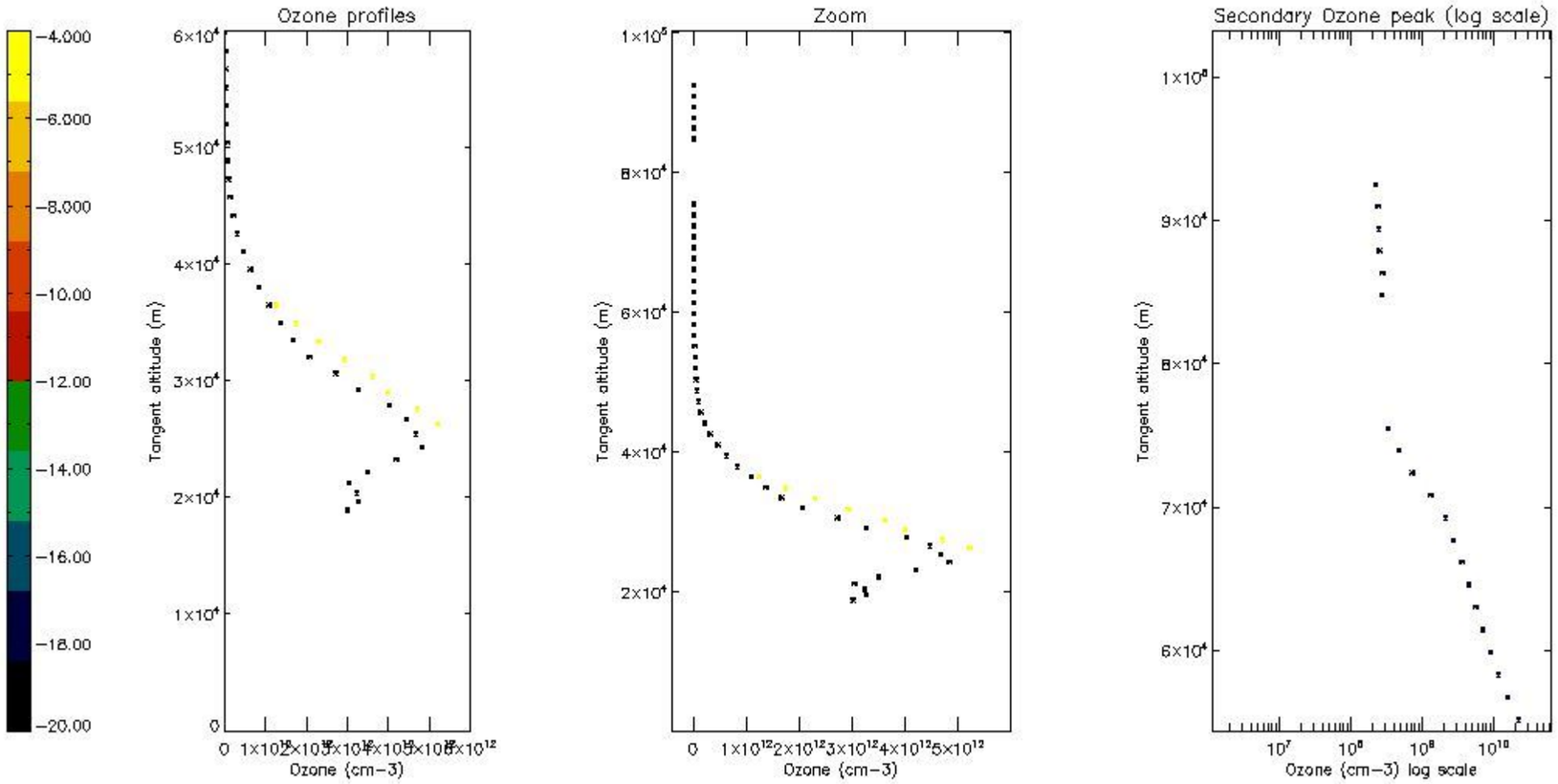
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



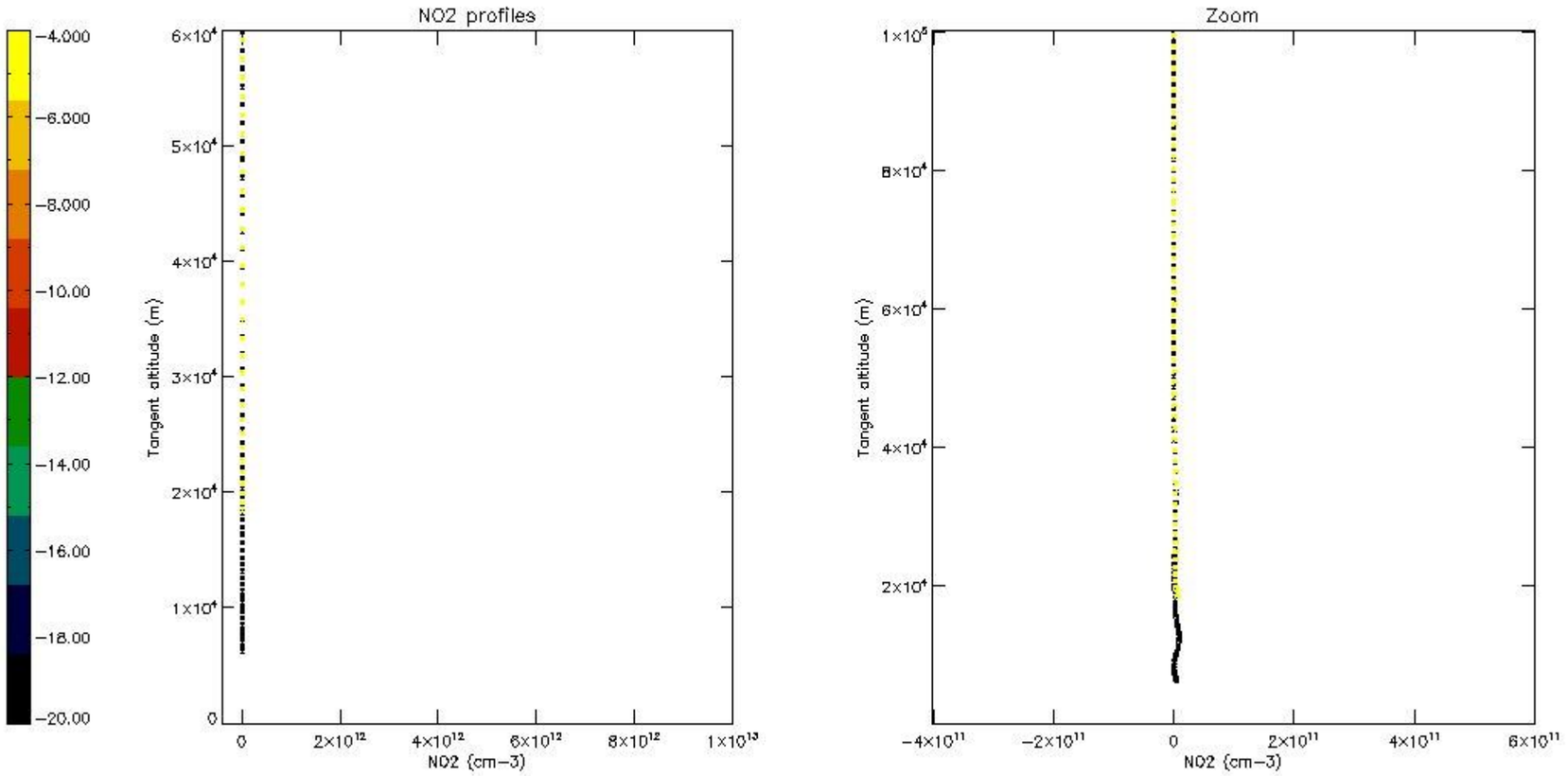
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



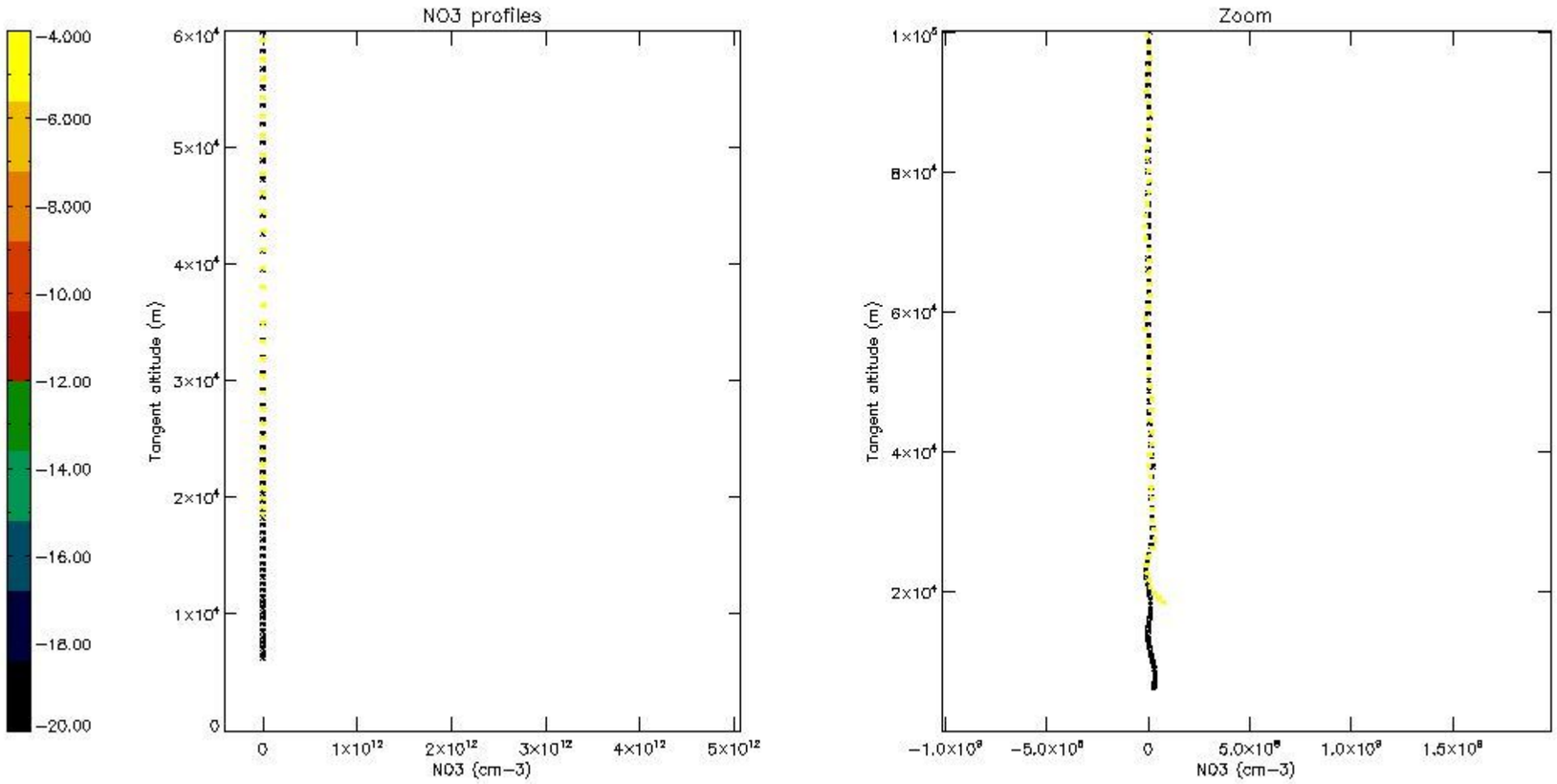
5.6 Plot NO2 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

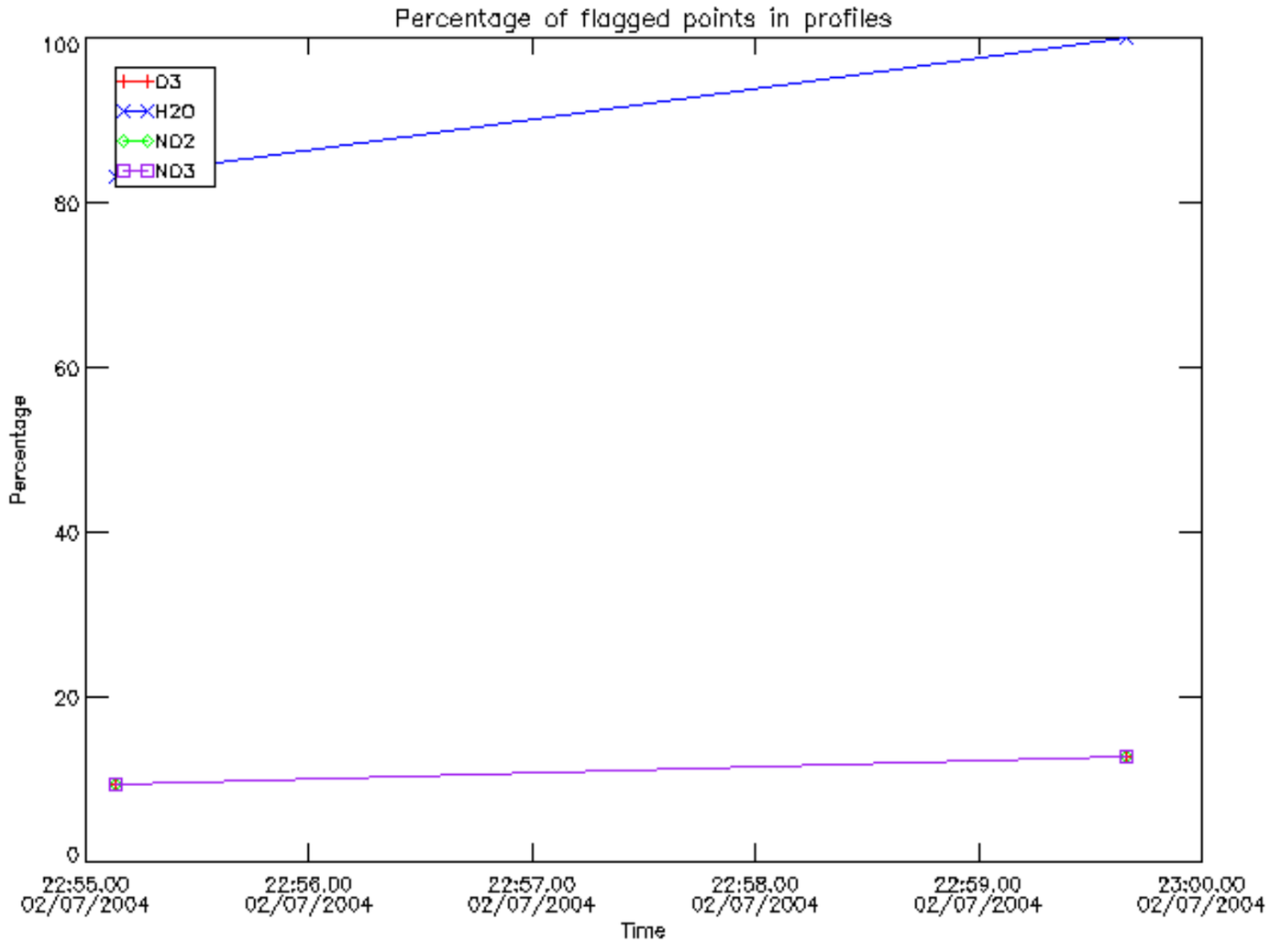
The colorbar represents the latitude.



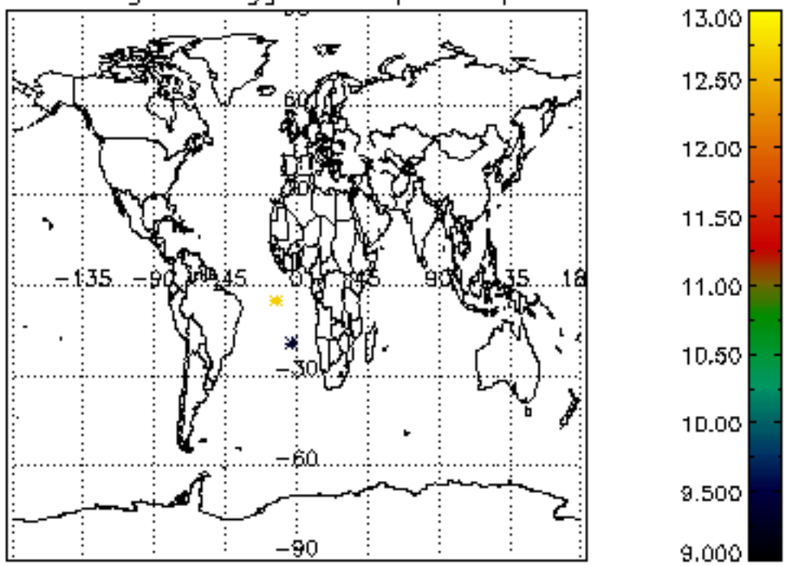
6. Auxiliary Data Files used for the production reported in section 2

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

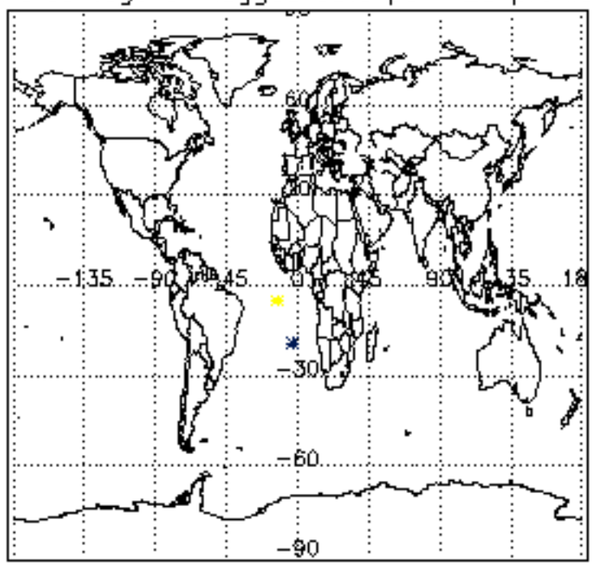
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	02-JUL-2004 22:55:07
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	02-JUL-2004 22:55:07
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	02-JUL-2004 22:55:07

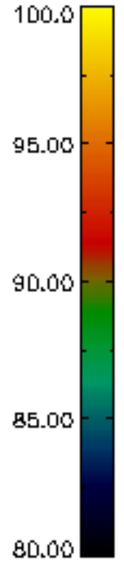

Percentage of flagged points in profiles
O3
H2O
NO2
NO3
100
80
60
40
20
0
Percentage
22:55.00
02/07/2004
22:56.00
02/07/2004
22:57.00
02/07/2004
22:58.00
02/07/2004
22:59.00
02/07/2004
23:00.00
02/07/2004
Time

Percentage of flagged data per O3 profile

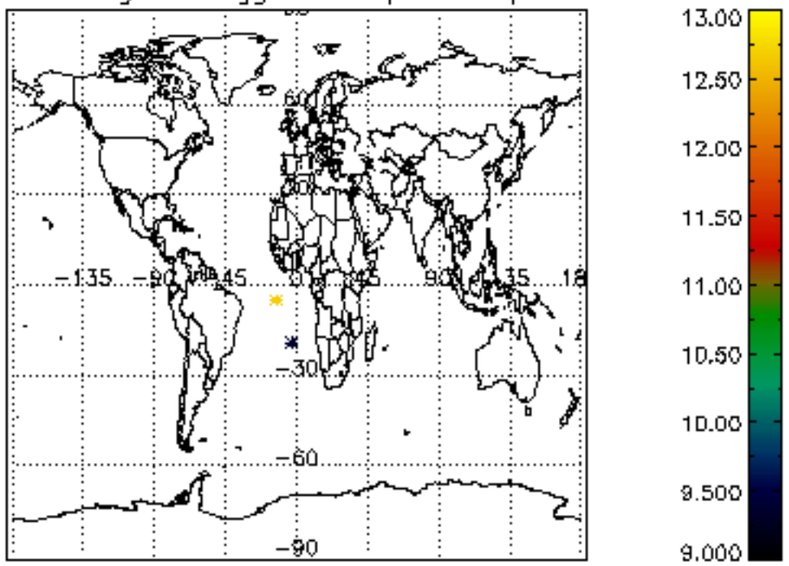


Percentage of flagged data per H2O profile

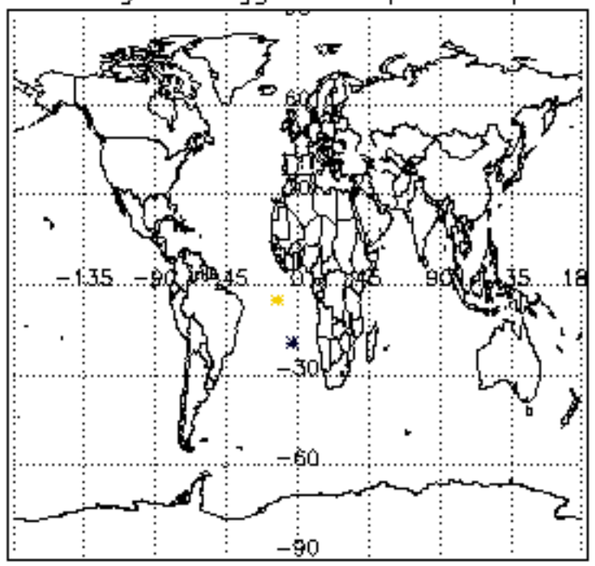


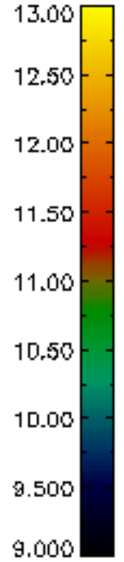


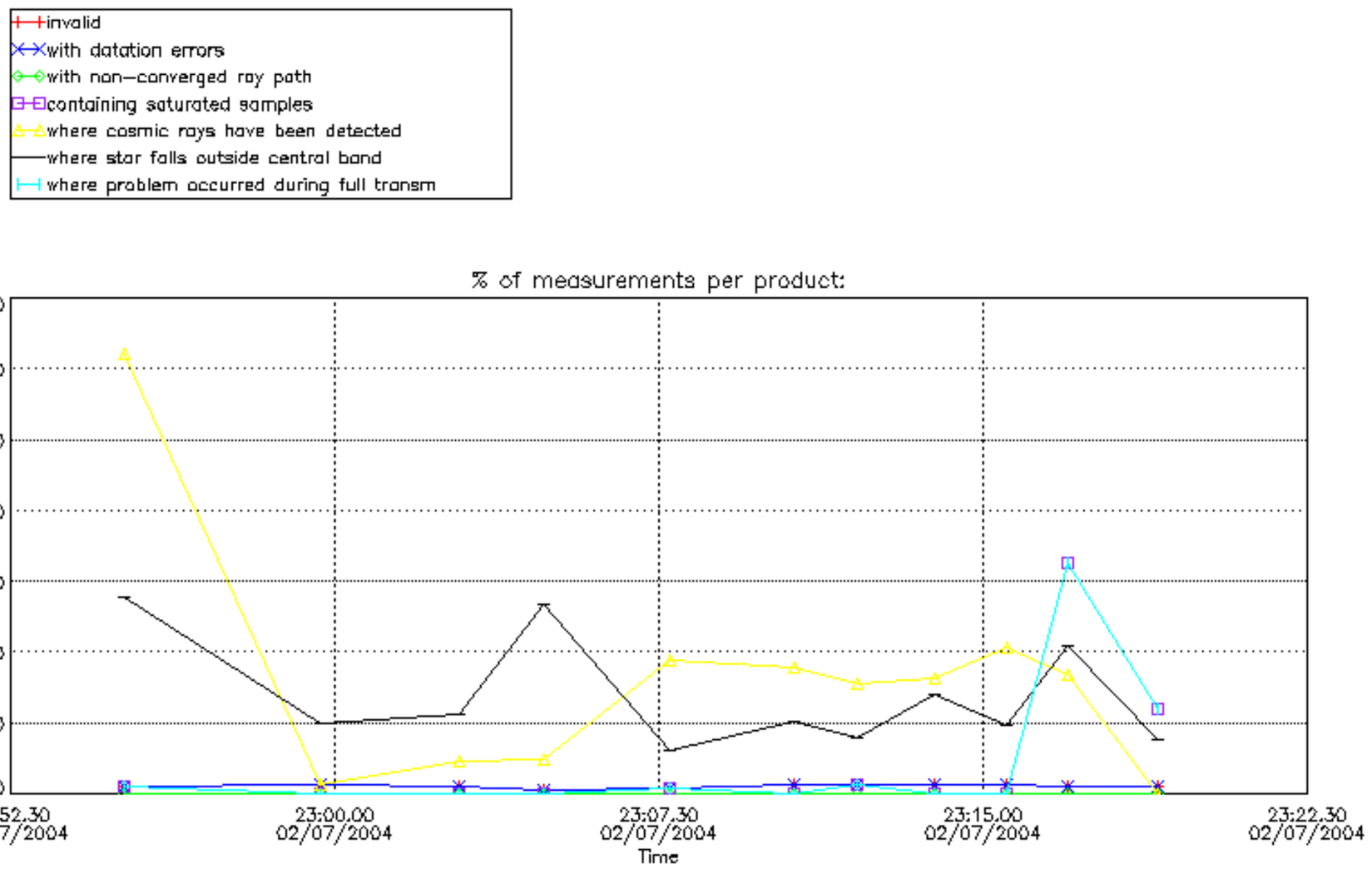
Percentage of flagged data per NO2 profile

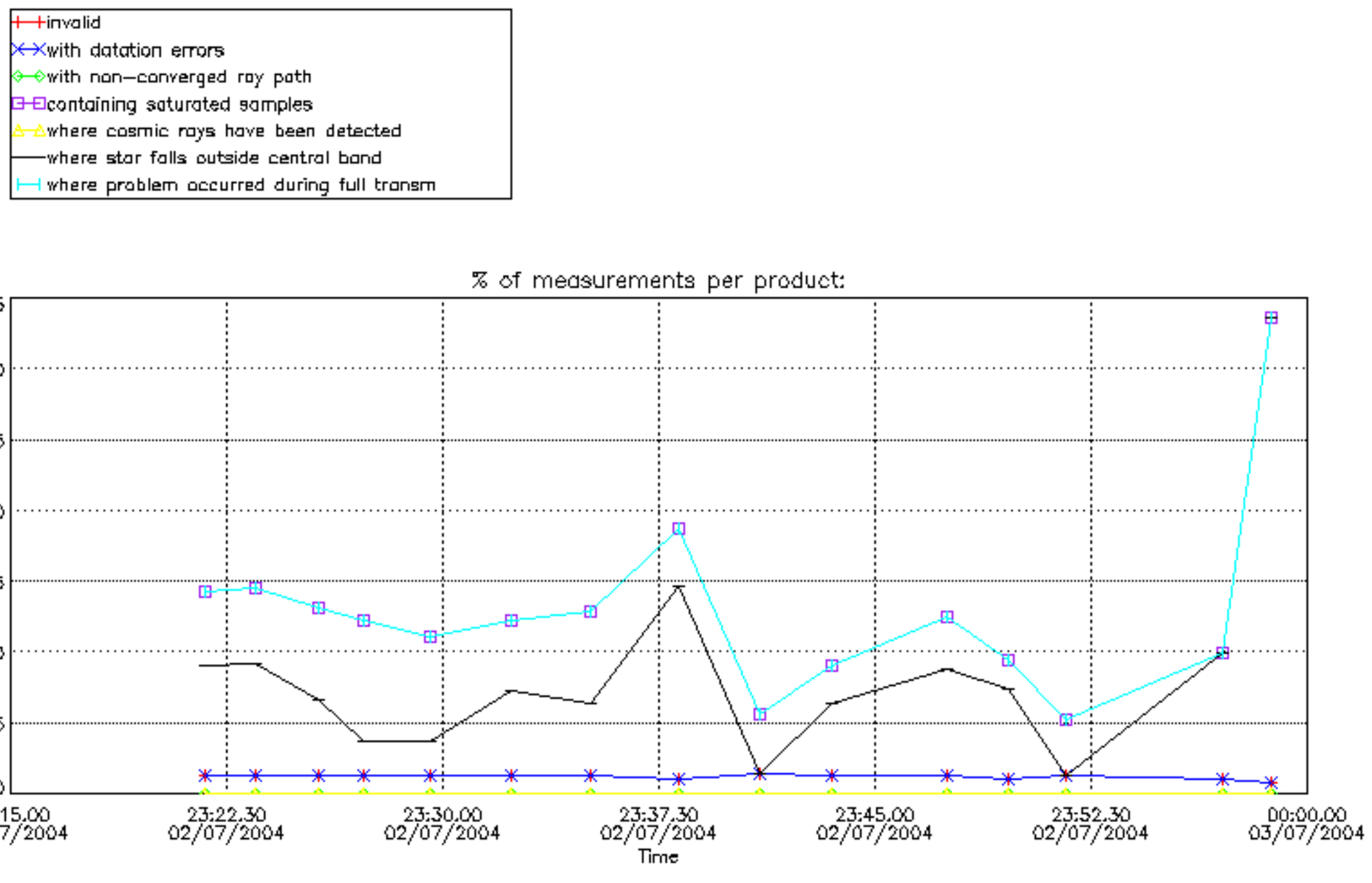


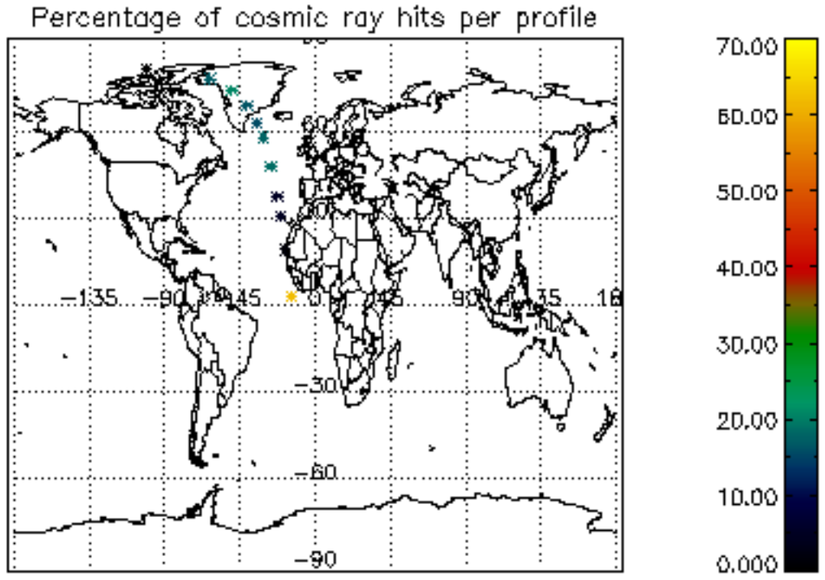
Percentage of flagged data per NO3 profile

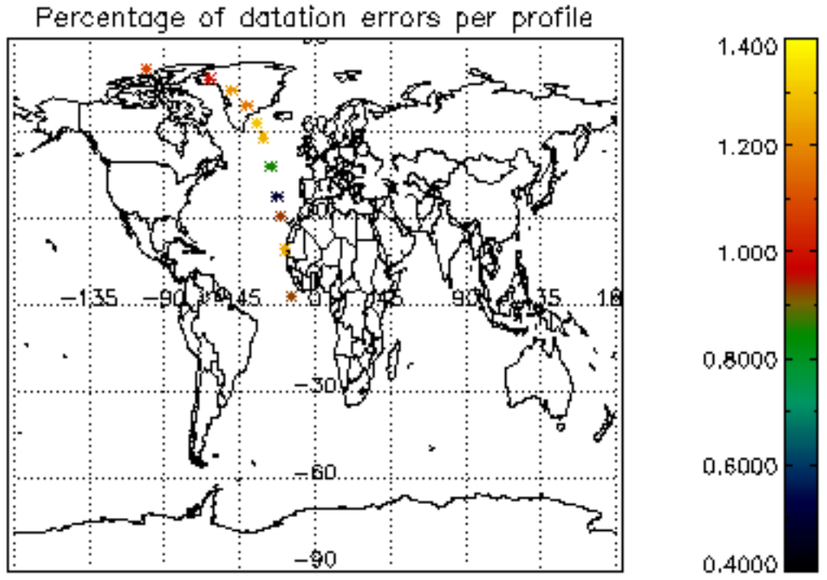


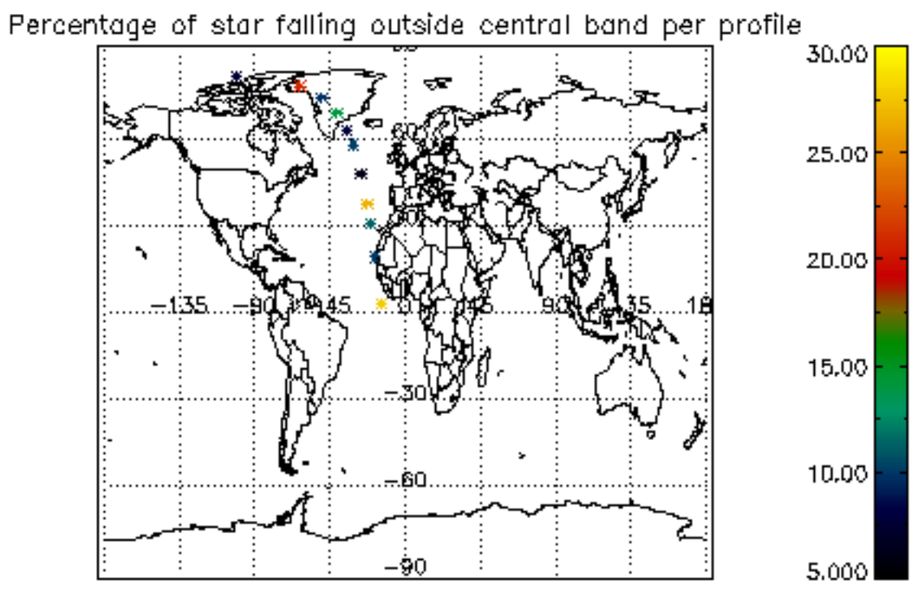


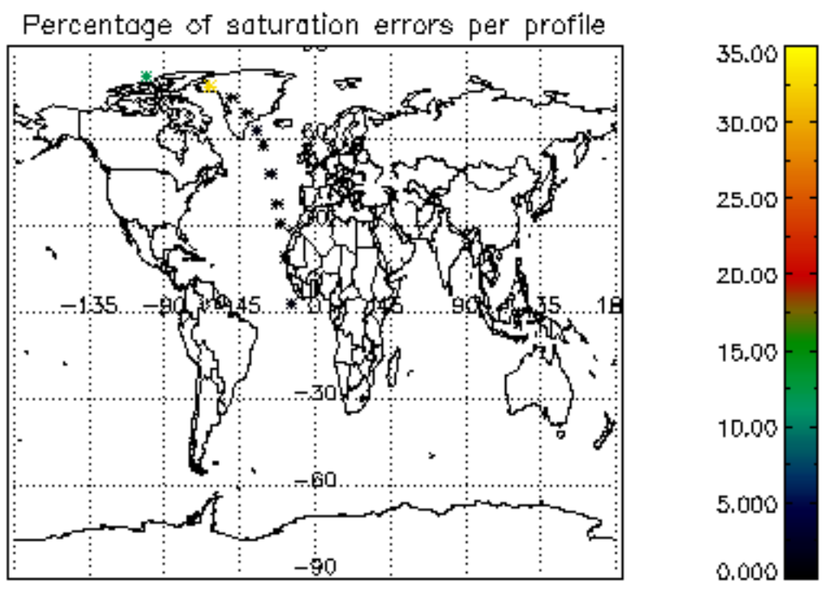

invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm
% of measurements per product:
70
60
50
40
30
20
10
0
value (%)
22:52.30
02/07/2004
23:00.00
02/07/2004
23:07.30
02/07/2004
23:15.00
02/07/2004
23:22.30
02/07/2004
Time


invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm
% of measurements per product:
value (%)
0
5
10
15
20
25
30
35
23:15.00 02/07/2004
23:22.30 02/07/2004
23:30.00 02/07/2004
23:37.30 02/07/2004
23:45.00 02/07/2004
23:52.30 02/07/2004
00:00.00 03/07/2004
Time

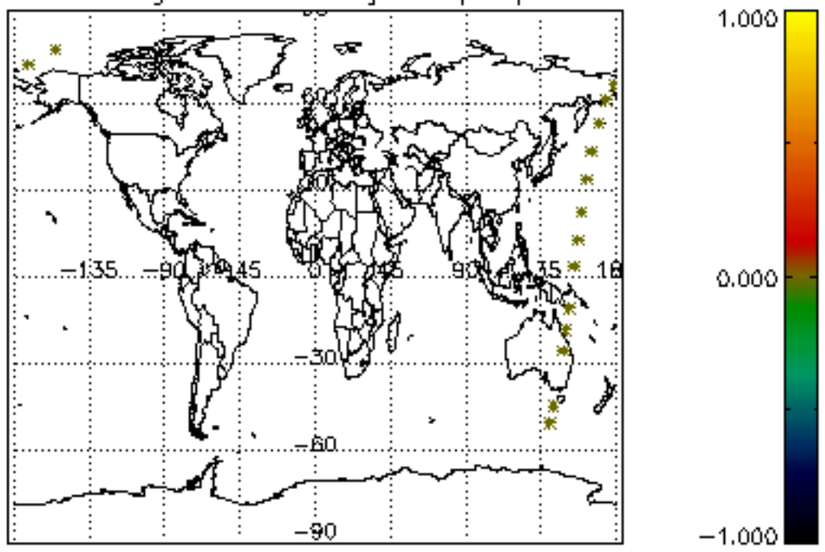

Percentage of cosmic ray hits per profile
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.000
−135
−90
−30
−60
−90


Percentage of datation errors per profile
1.400
1.200
1.000
0.8000
0.6000
0.4000
−135
−90
−30
−60
−90

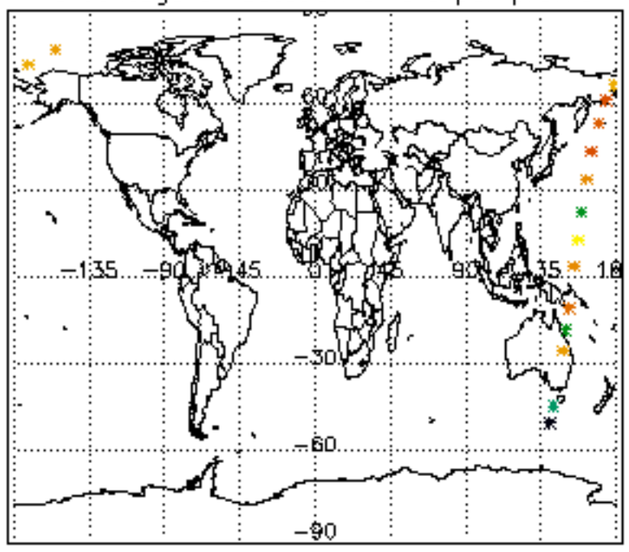

Percentage of star falling outside central band per profile
30.00
25.00
20.00
15.00
10.00
5.000
−135
−90
−30
−60
−90

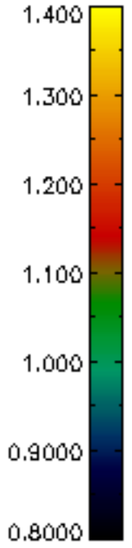

Percentage of saturation errors per profile
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−30
−60
−90

Percentage of cosmic ray hits per profile

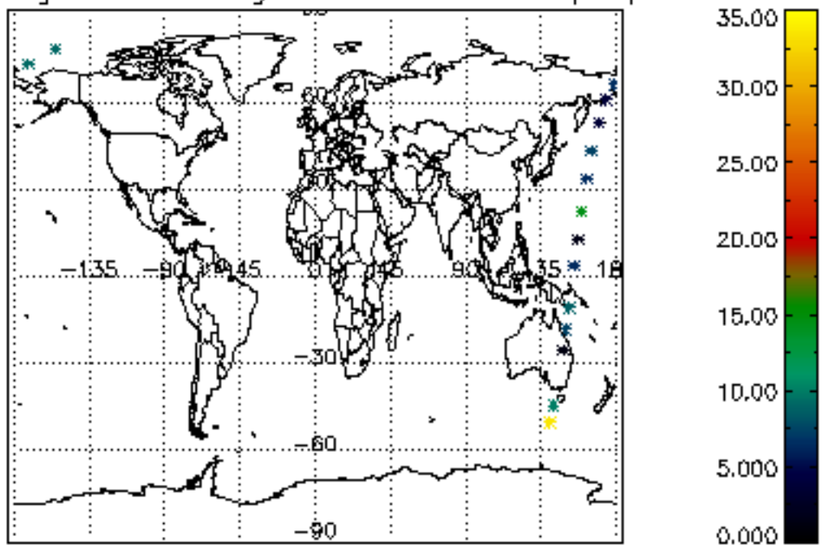


Percentage of datation errors per profile

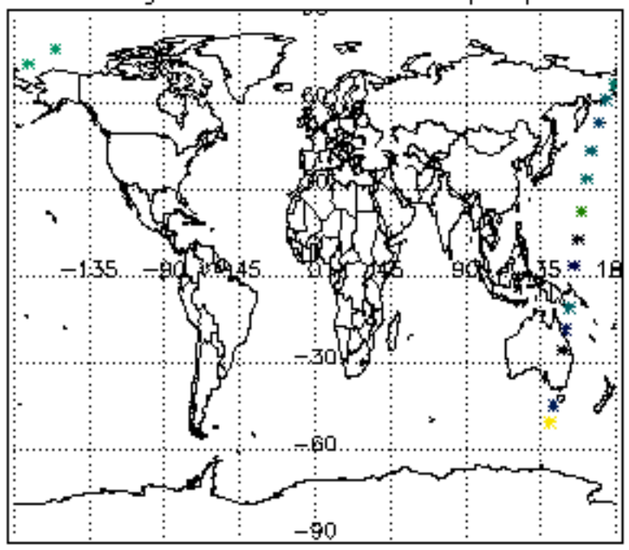


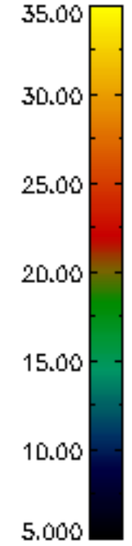


Percentage of star falling outside central band per profile

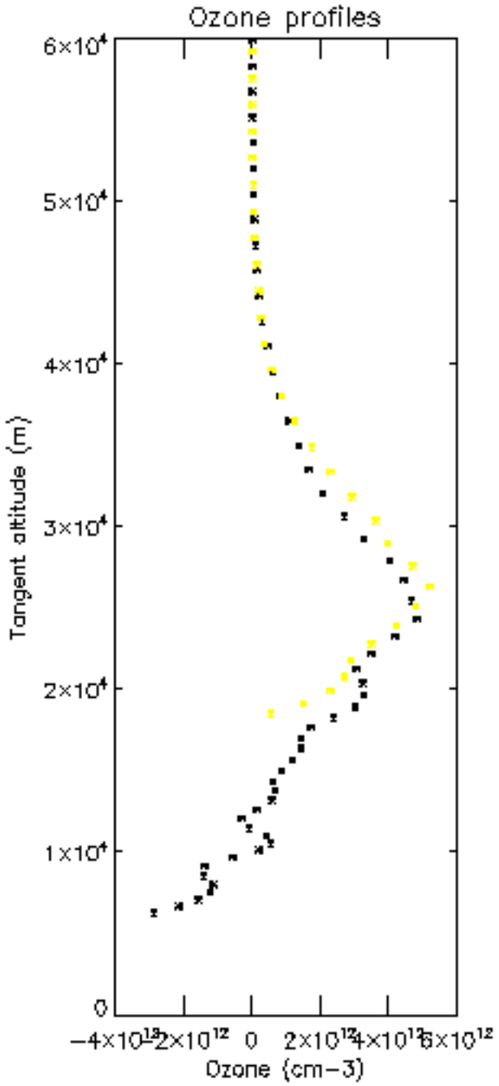


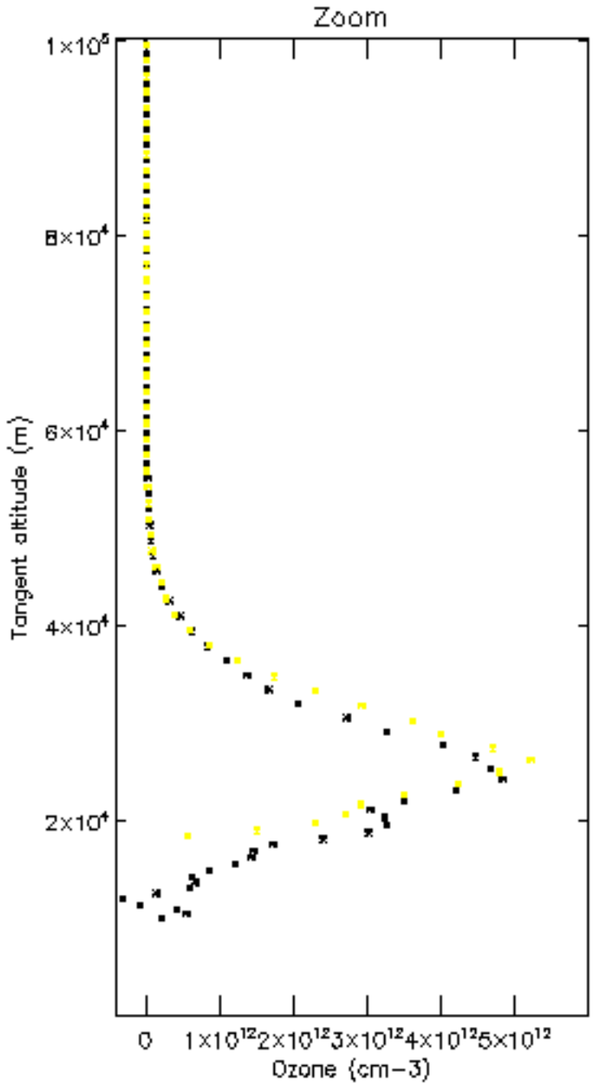
Percentage of saturation errors per profile

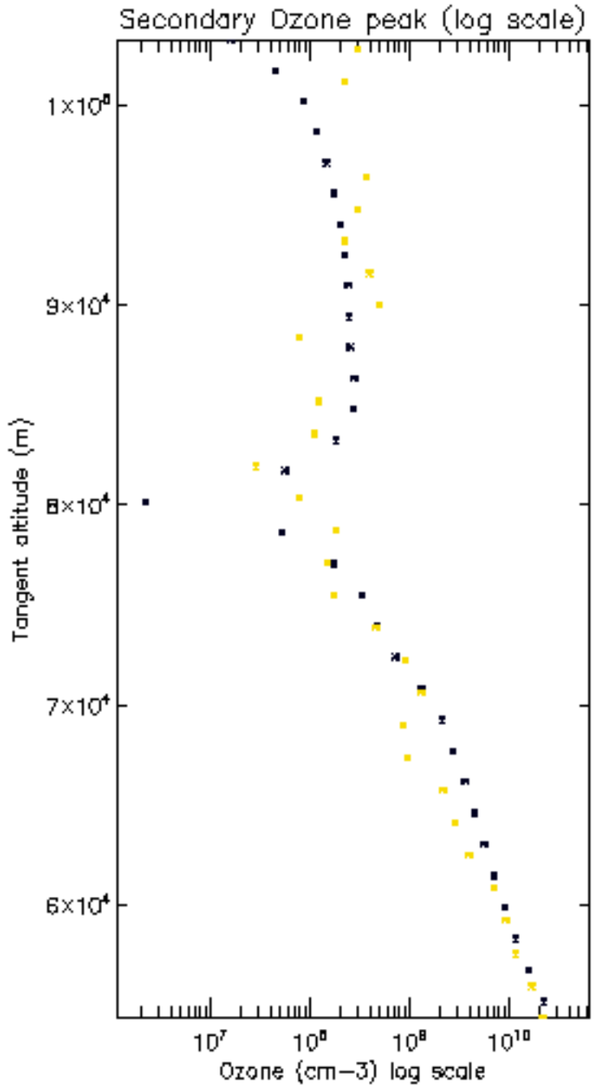


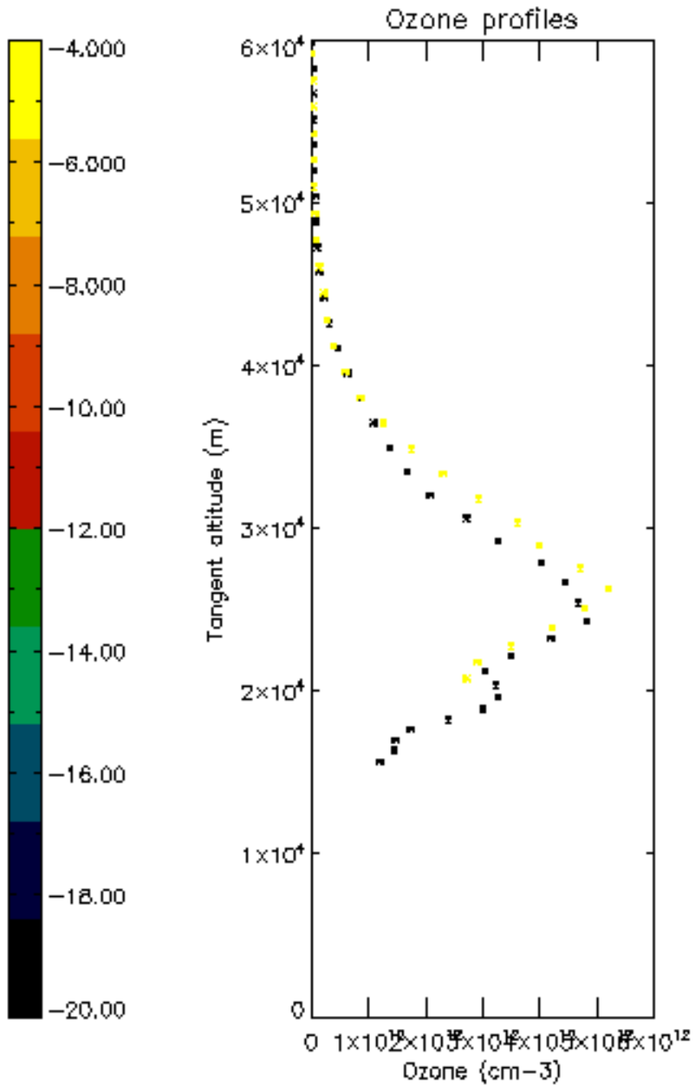



−4.000
−6.000
−8.000
−10.00
−12.00
−14.00
−16.00
−18.00
−20.00

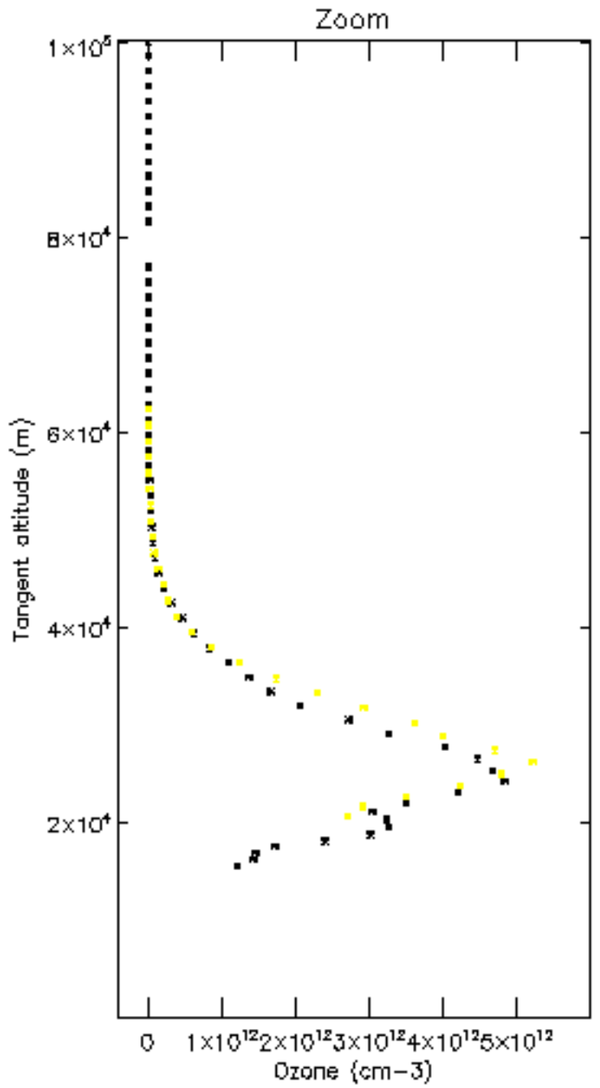

Ozone profiles
Tangent altitude (m)
6×10⁴
5×10⁴
4×10⁴
3×10⁴
2×10⁴
1×10⁴
0
−4×10¹²
−2×10¹²
0
2×10¹²
4×10¹²
6×10¹²
Ozone (cm−3)

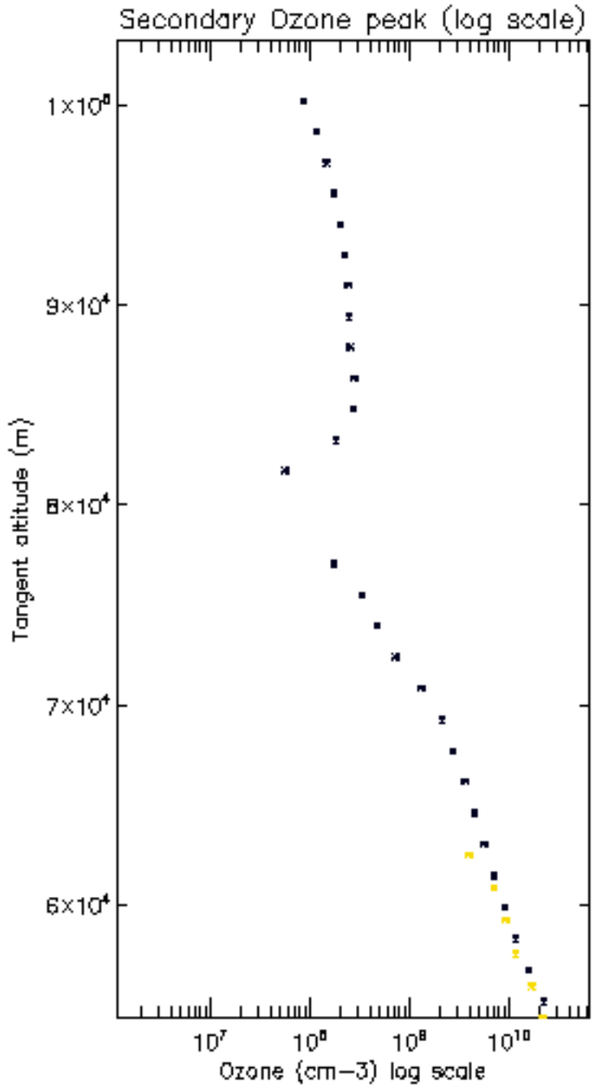

Zoom
Tangent altitude (m)
1×10⁵
8×10⁴
6×10⁴
4×10⁴
2×10⁴
0
1×10¹²
2×10¹²
3×10¹²
4×10¹²
5×10¹²
Ozone (cm−3)

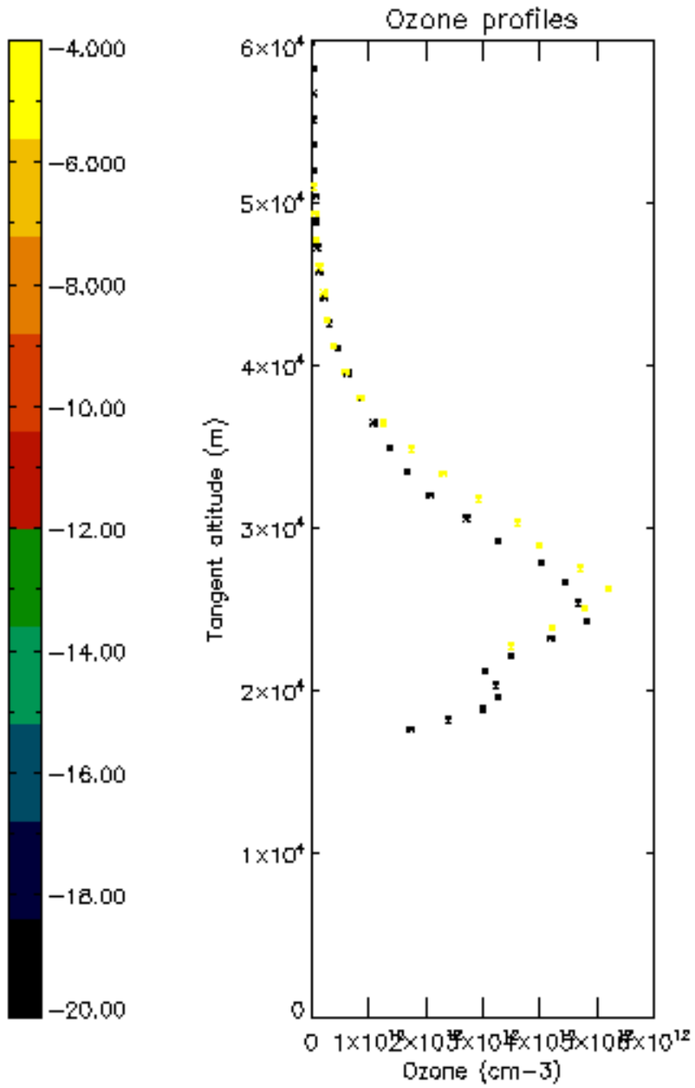

Secondary Ozone peak (log scale)
Tangent altitude (m)
1×10⁵
9×10⁴
8×10⁴
7×10⁴
6×10⁴
10⁷
10⁸
10⁹
10¹⁰
Ozone (cm−3) log scale


−4.000
−6.000
−8.000
−10.00
−12.00
−14.00
−16.00
−18.00
−20.00

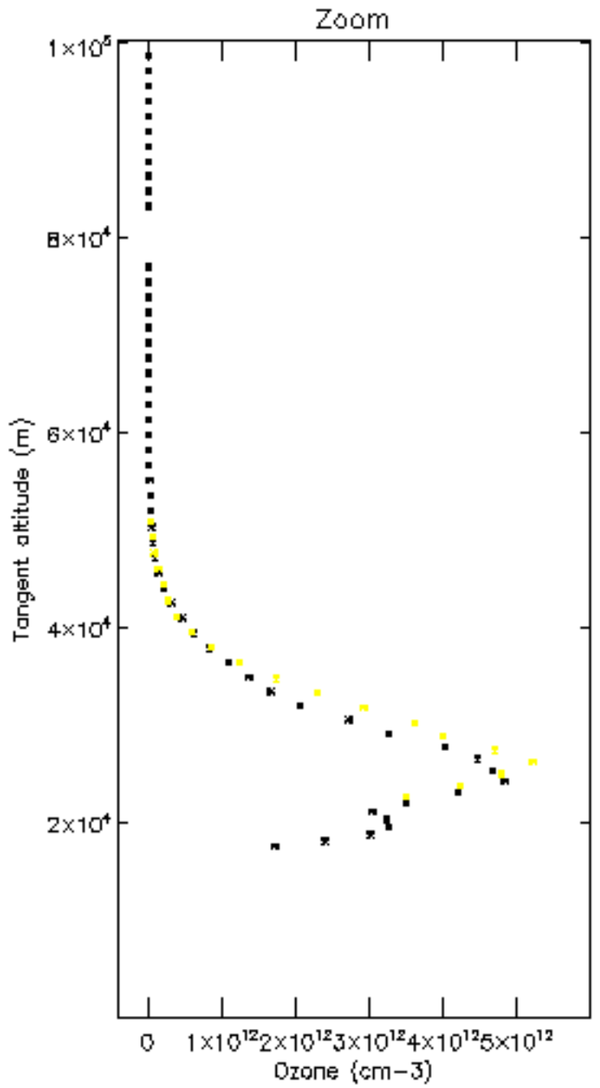
Ozone profiles
Tangent altitude (m)
Ozone (cm−3)
0
1×10⁴
2×10⁴
3×10⁴
4×10⁴
5×10⁴
6×10⁴
0
1×10¹²
2×10¹²
3×10¹²
4×10¹²
5×10¹²
6×10¹²

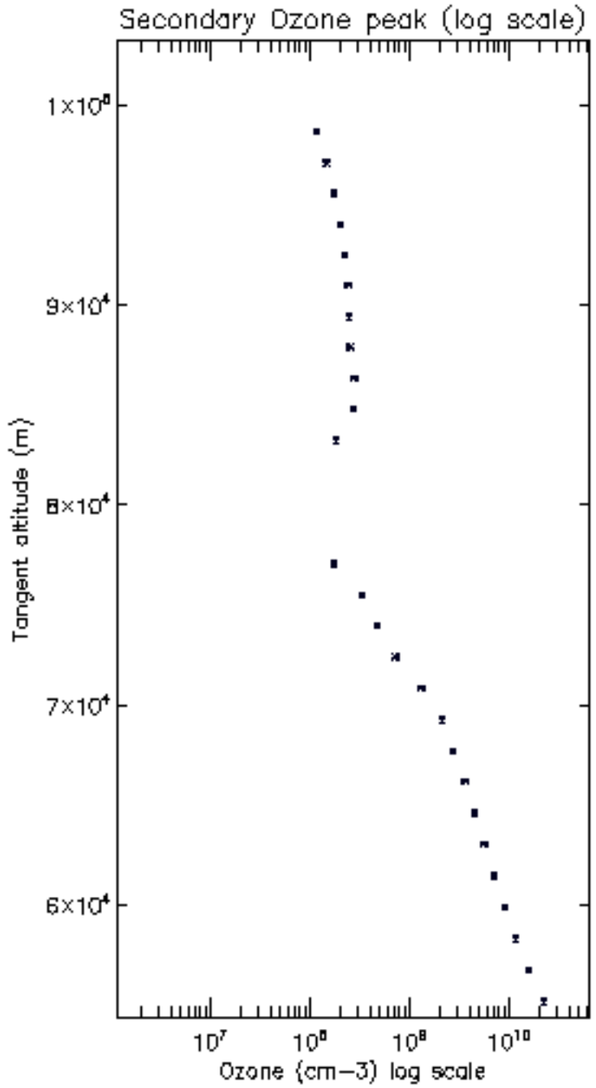

Zoom
Tangent altitude (m)
Ozone (cm−3)
2×10⁴
4×10⁴
6×10⁴
8×10⁴
1×10⁵
0
1×10¹²
2×10¹²
3×10¹²
4×10¹²
5×10¹²

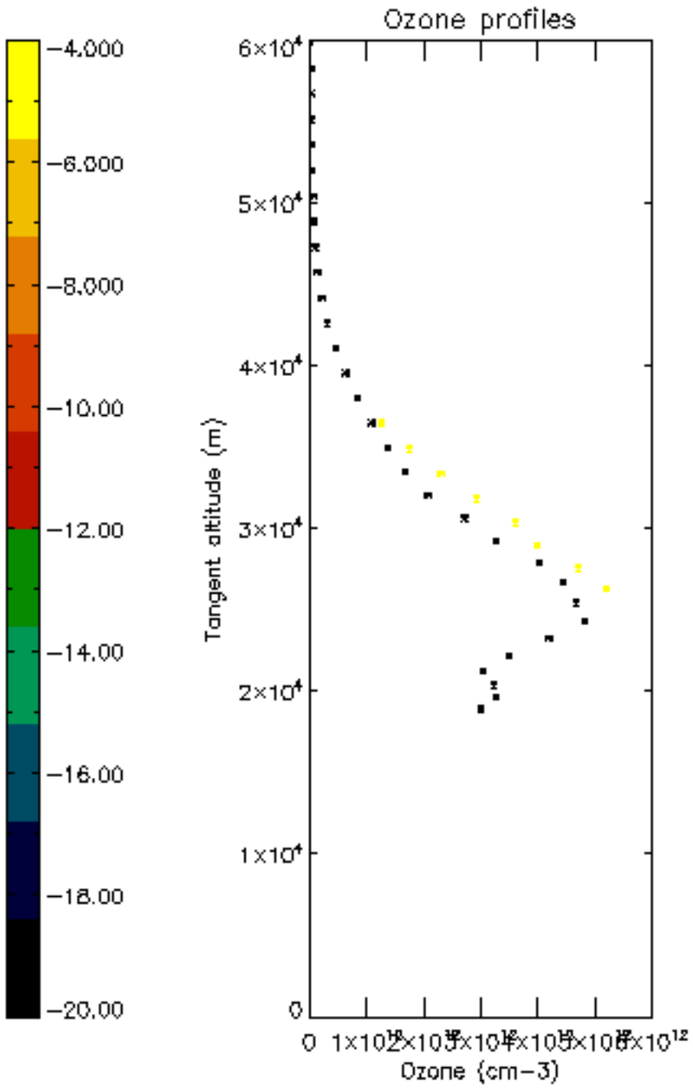

Secondary Ozone peak (log scale)
Tangent altitude (m)
Ozone (cm−3) log scale
6×10⁴
7×10⁴
8×10⁴
9×10⁴
1×10⁵
10⁷
10⁸
10⁹
10¹⁰


−4.000
−6.000
−8.000
−10.00
−12.00
−14.00
−16.00
−18.00
−20.00

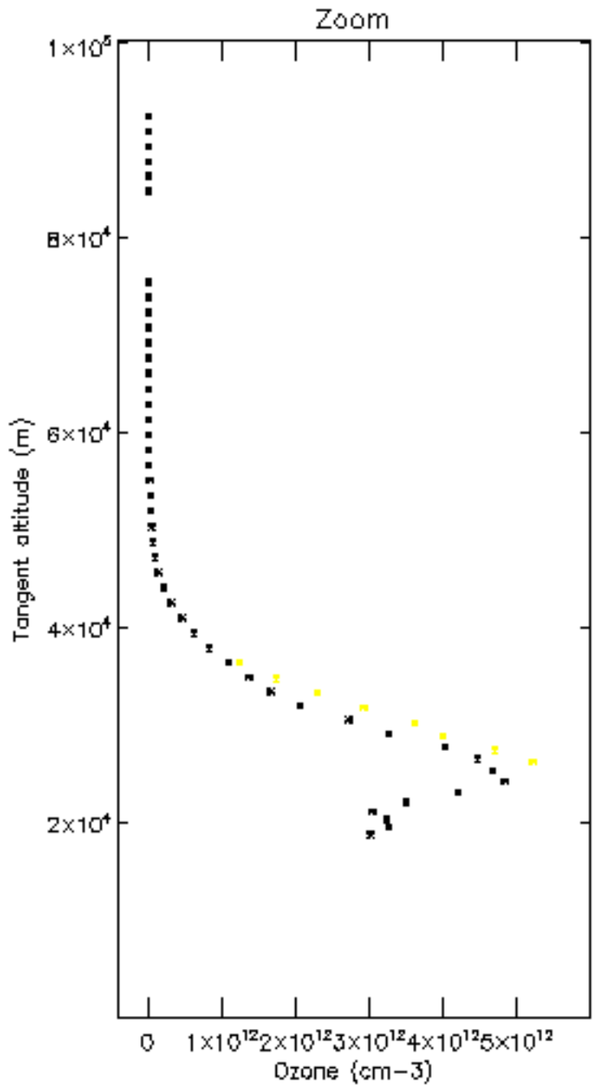
Ozone profiles
Tangent altitude (m)
Ozone (cm−3)
0
1×10⁴
2×10⁴
3×10⁴
4×10⁴
5×10⁴
6×10⁴
0
1×10¹²
2×10¹²
3×10¹²
4×10¹²
5×10¹²
6×10¹²

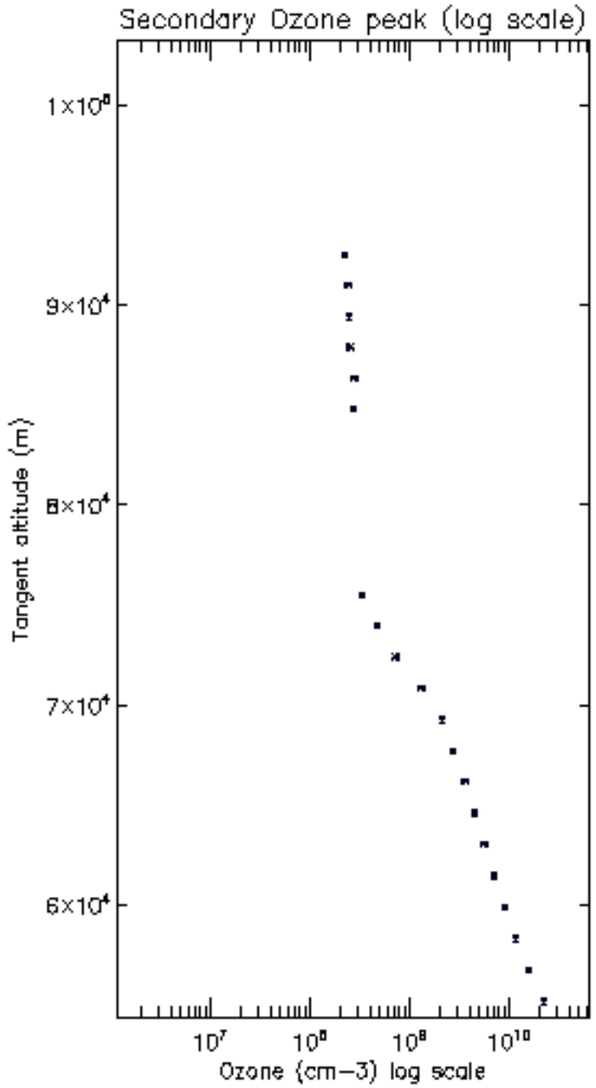

Zoom
Tangent altitude (m)
Ozone (cm−3)
2×10⁴
4×10⁴
6×10⁴
8×10⁴
1×10⁵
0
1×10¹²
2×10¹²
3×10¹²
4×10¹²
5×10¹²

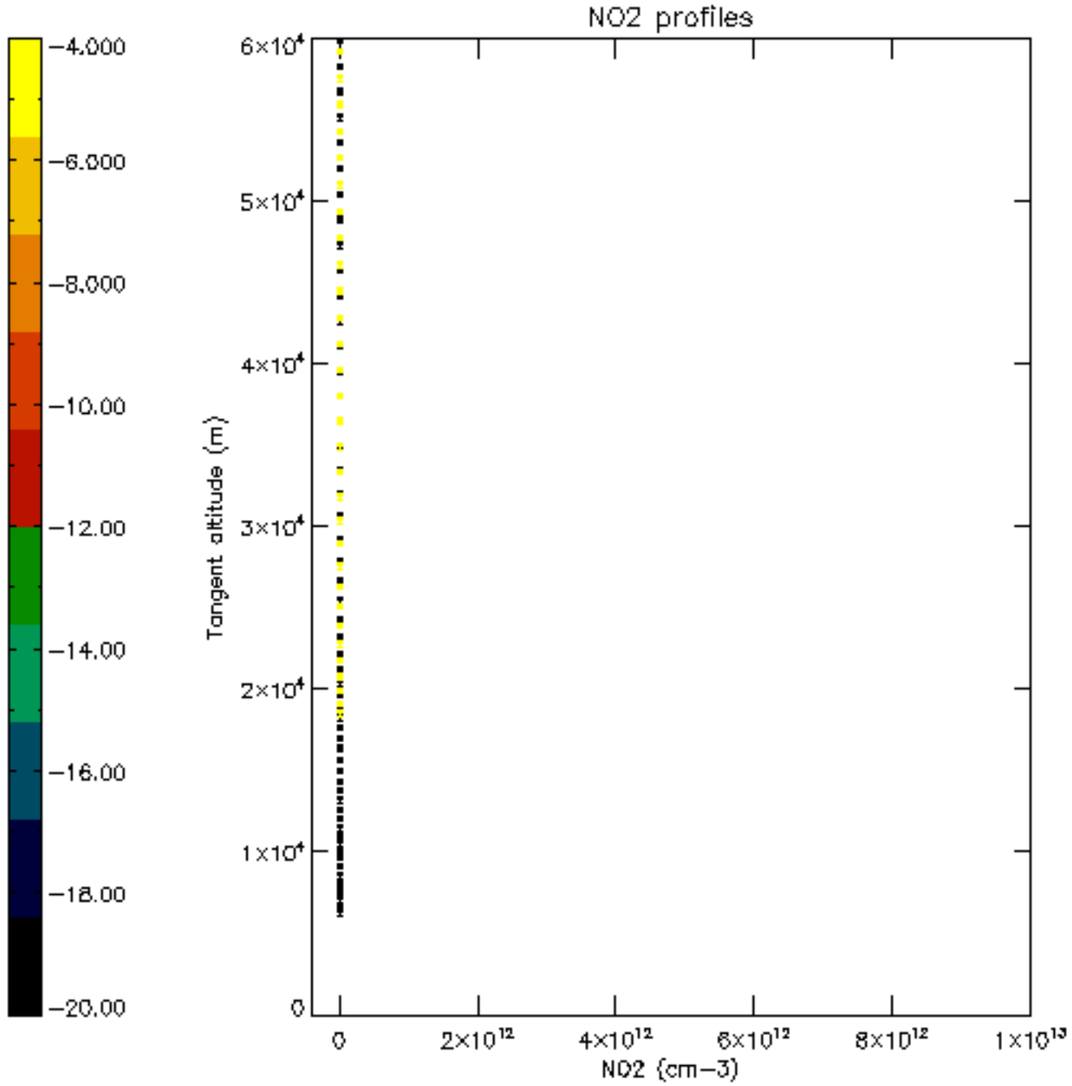

Secondary Ozone peak (log scale)
Tangent altitude (m)
Ozone (cm−3) log scale
6×10⁴
7×10⁴
8×10⁴
9×10⁴
1×10⁵
10⁷
10⁸
10⁹
10¹⁰

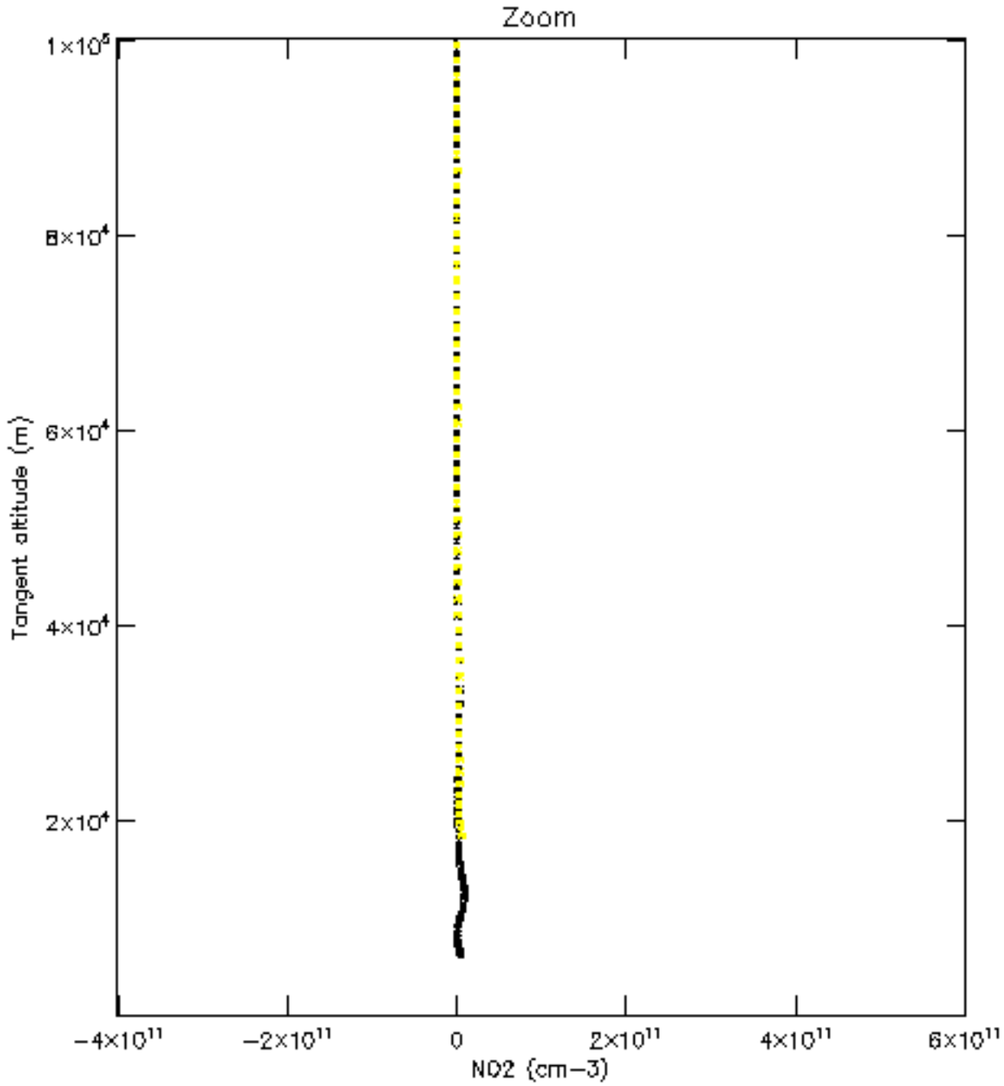

−4.000
−6.000
−8.000
−10.00
−12.00
−14.00
−16.00
−18.00
−20.00

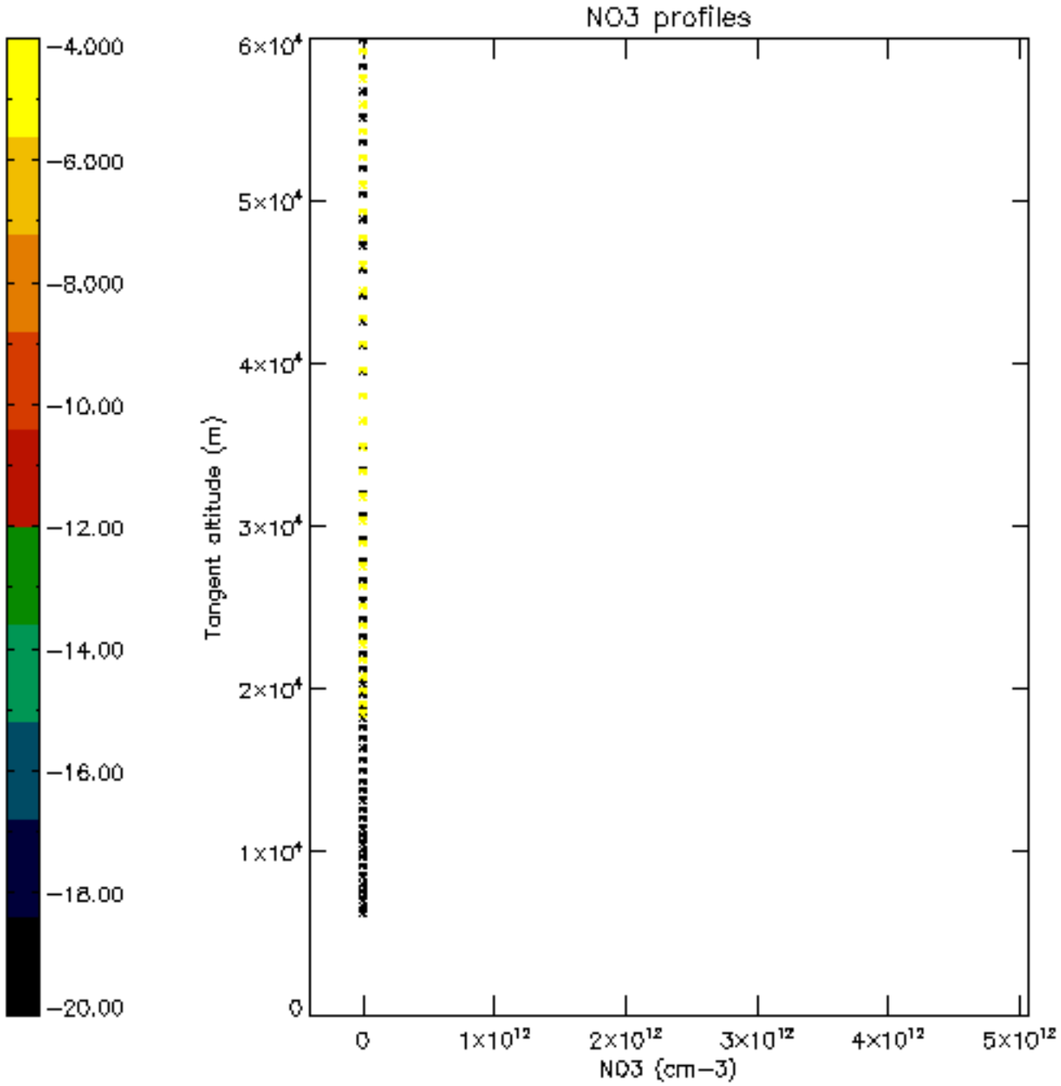
Ozone profiles
6×10⁴
5×10⁴
4×10⁴
3×10⁴
2×10⁴
1×10⁴
0
Tangent altitude (m)
0 1×10¹²
Ozone (cm−3)

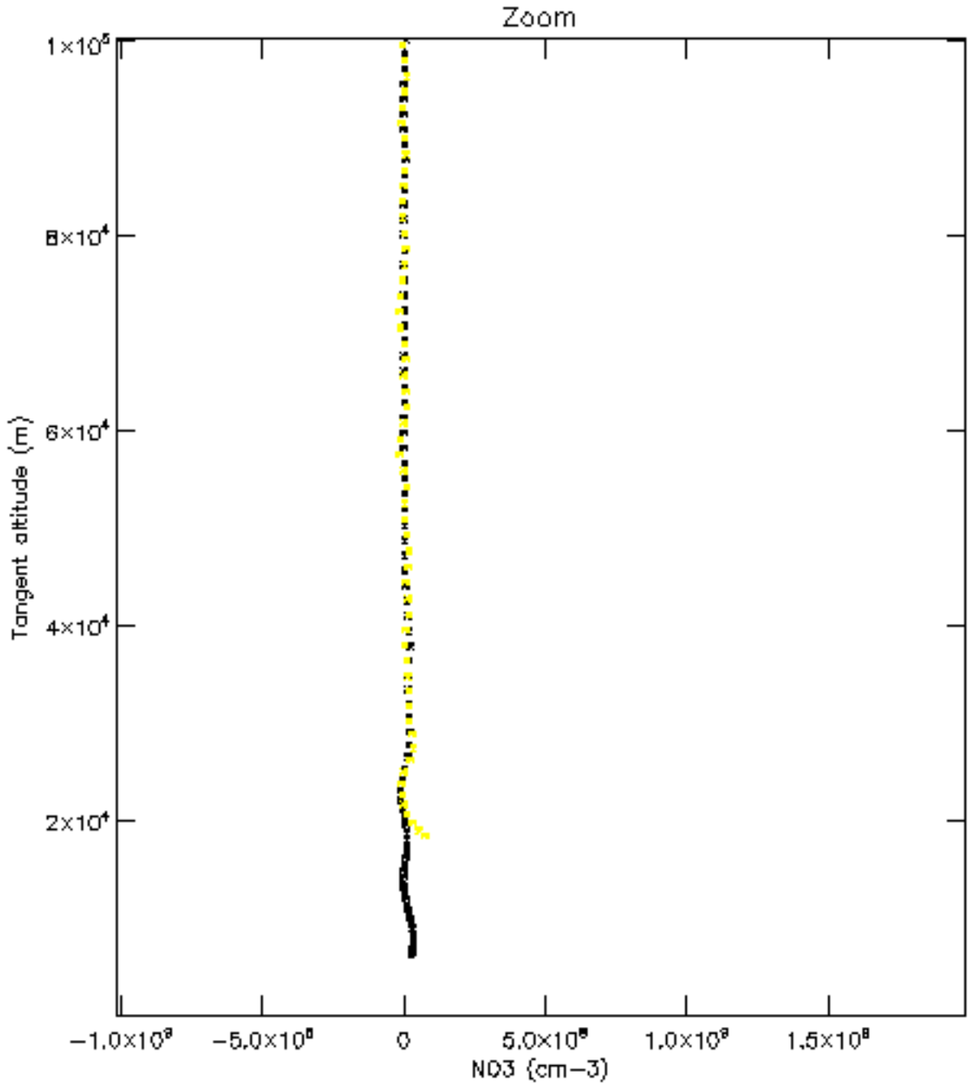

Zoom
1×10⁵
8×10⁴
6×10⁴
4×10⁴
2×10⁴
Tangent altitude (m)
0 1×10¹² 2×10¹² 3×10¹² 4×10¹² 5×10¹²
Ozone (cm−3)

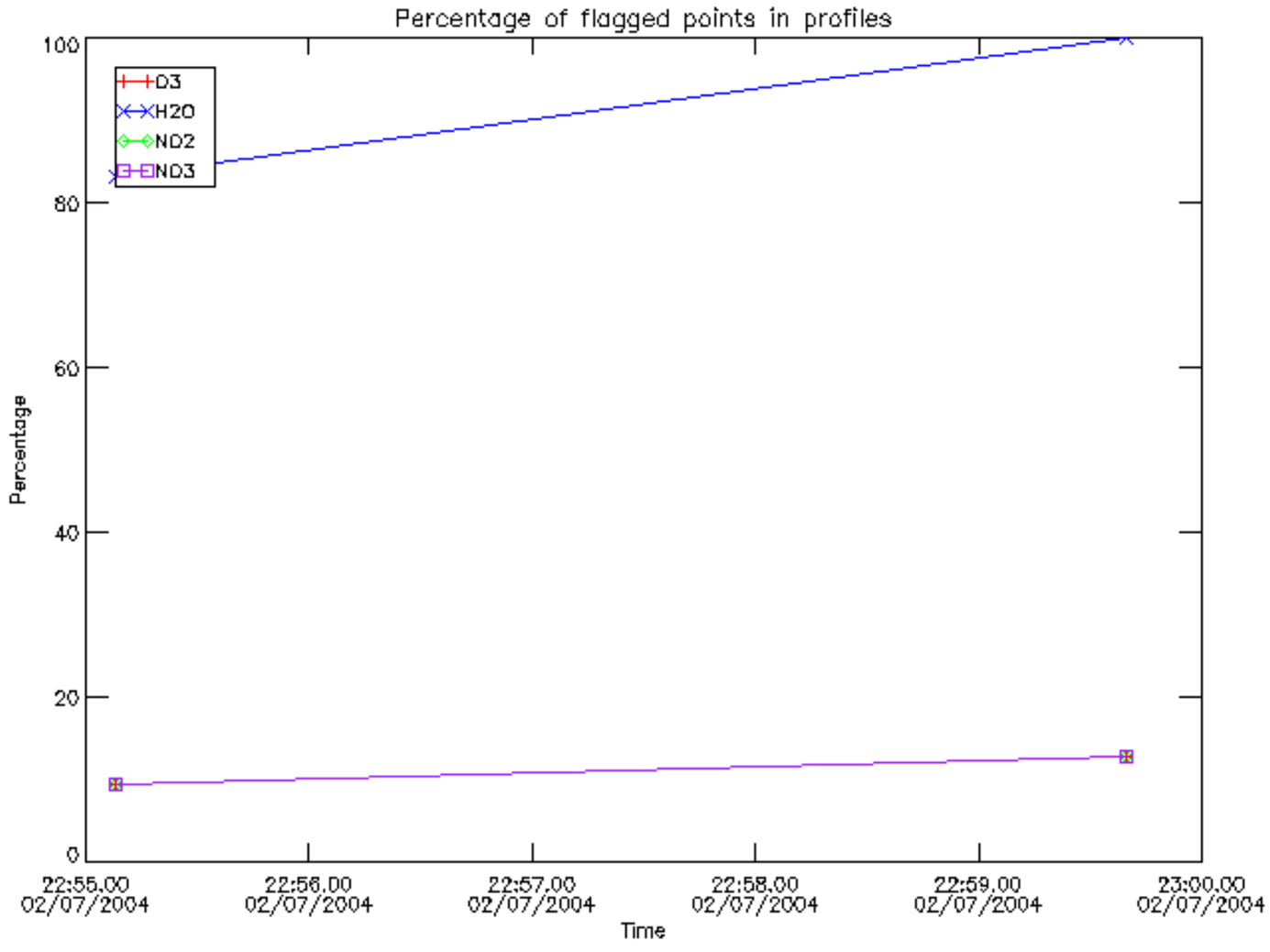

Secondary Ozone peak (log scale)
1×10⁵
9×10⁴
8×10⁴
7×10⁴
6×10⁴
Tangent altitude (m)
10⁷ 10⁸ 10⁹ 10¹⁰
Ozone (cm−3) log scale


NO2 profiles
−4.000
−6.000
−8.000
−10.00
−12.00
−14.00
−16.00
−18.00
−20.00
Tangent altitude (m)
6×10⁴
5×10⁴
4×10⁴
3×10⁴
2×10⁴
1×10⁴
0
0
2×10¹²
4×10¹²
6×10¹²
8×10¹²
1×10¹³
NO2 (cm−3)

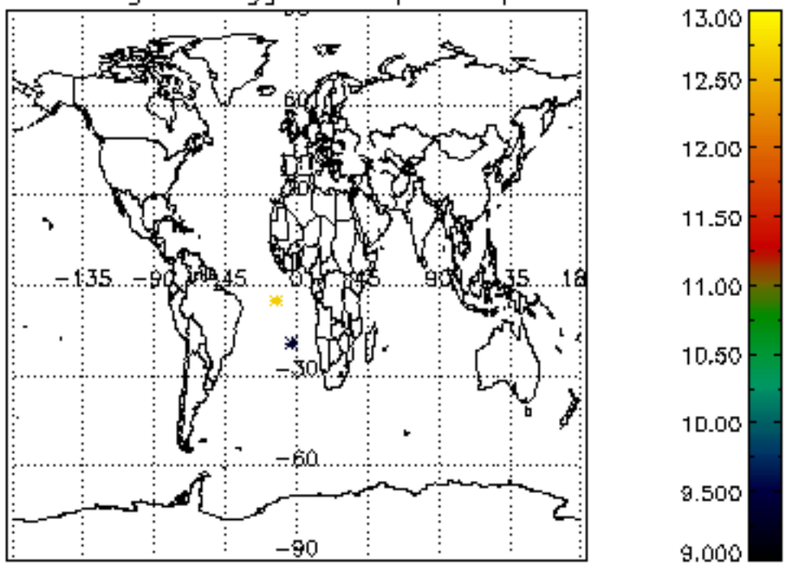

Zoom
Tangent altitude (m)
1×10⁵
8×10⁴
6×10⁴
4×10⁴
2×10⁴
−4×10¹¹
−2×10¹¹
0
2×10¹¹
4×10¹¹
6×10¹¹
NO2 (cm−3)


NO3 profiles
−4.000
−6.000
−8.000
−10.00
−12.00
−14.00
−16.00
−18.00
−20.00
Tangent altitude (m)
6×10⁴
5×10⁴
4×10⁴
3×10⁴
2×10⁴
1×10⁴
0
0
1×10¹²
2×10¹²
3×10¹²
4×10¹²
5×10¹²
NO3 (cm−3)

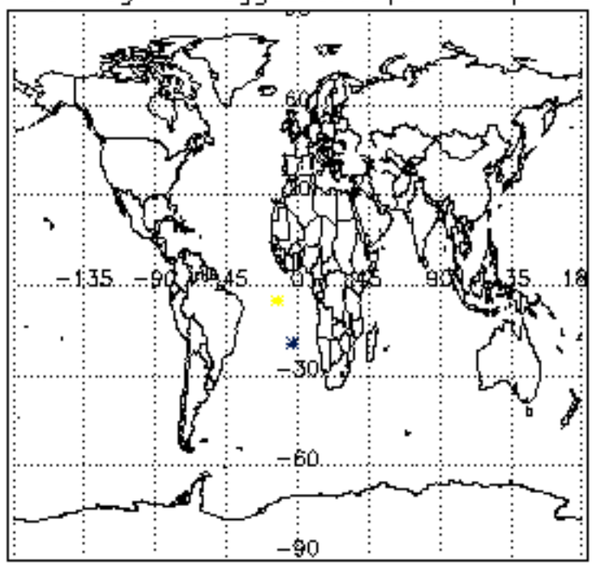

Zoom
Tangent altitude (m)
1×10⁵
8×10⁴
6×10⁴
4×10⁴
2×10⁴
−1.0×10⁸
−5.0×10⁸
0
5.0×10⁸
1.0×10⁹
1.5×10⁹
NO3 (cm−3)

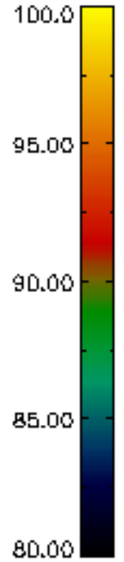

Percentage of flagged points in profiles
O3
H2O
NO2
NO3
100
80
60
40
20
0
Percentage
22:55.00
02/07/2004
22:56.00
02/07/2004
22:57.00
02/07/2004
22:58.00
02/07/2004
22:59.00
02/07/2004
23:00.00
02/07/2004
Time

Percentage of flagged data per O3 profile

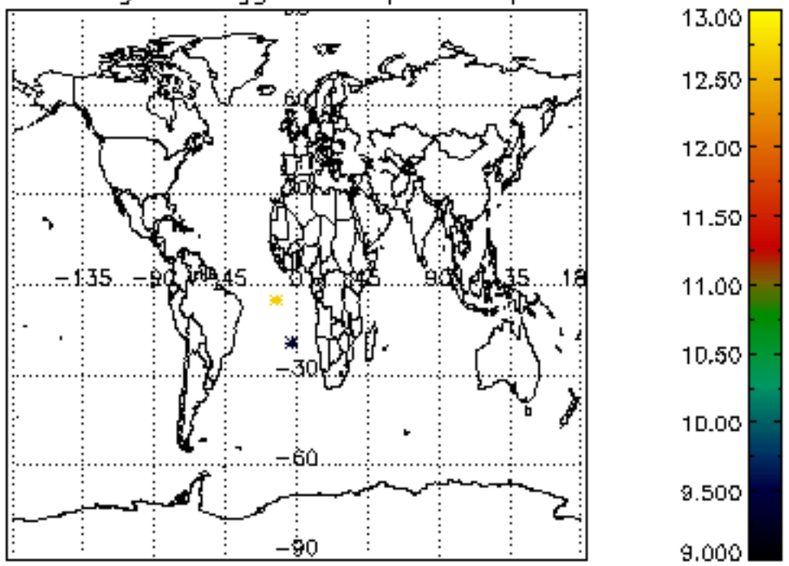


Percentage of flagged data per H2O profile

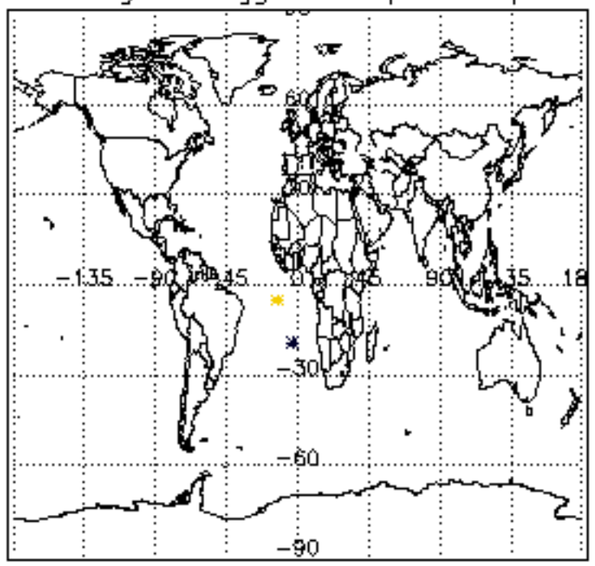


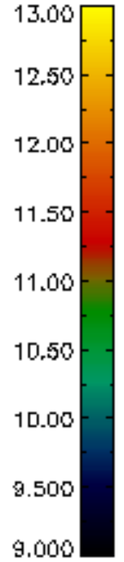


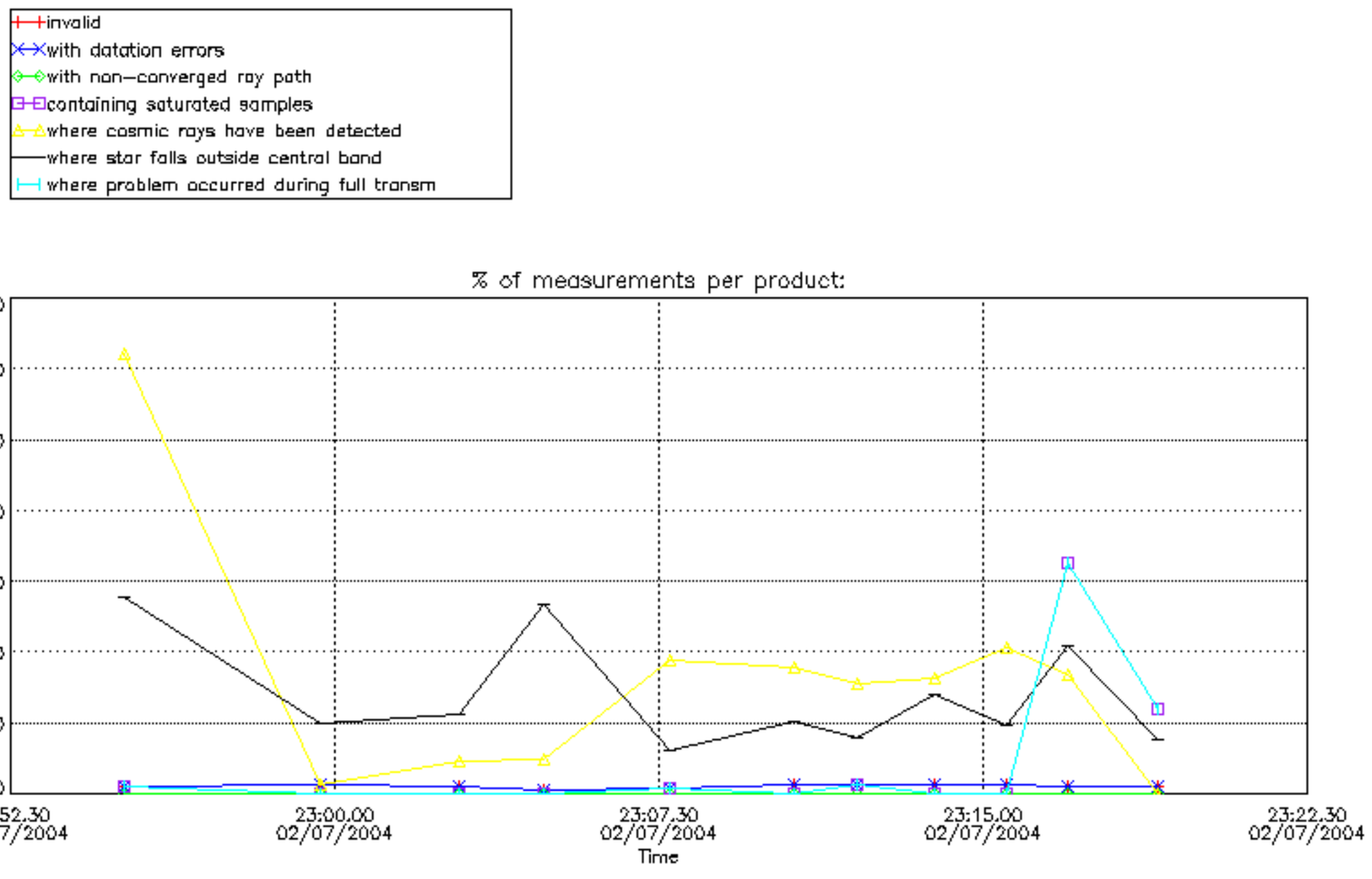
Percentage of flagged data per NO2 profile

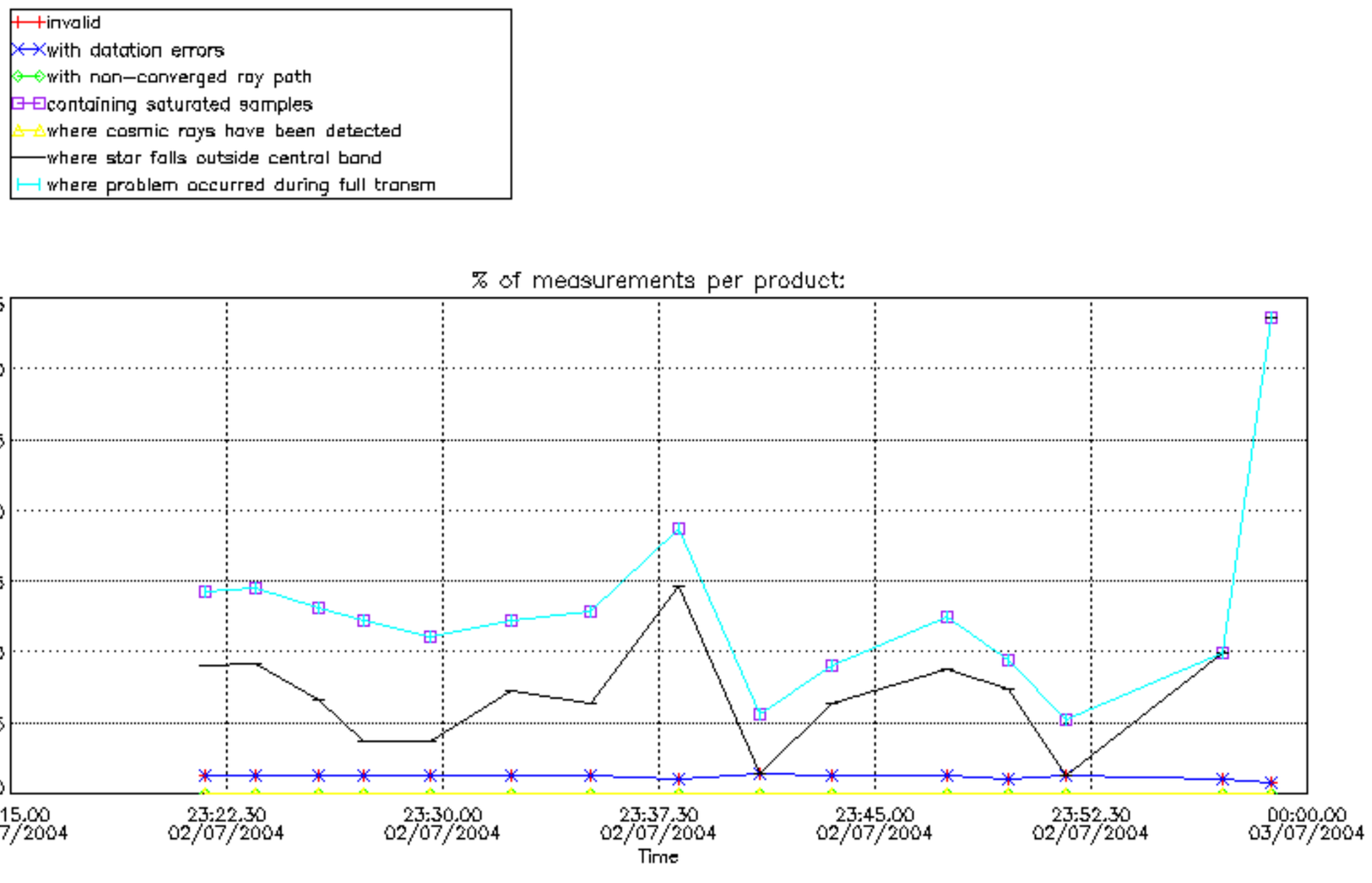


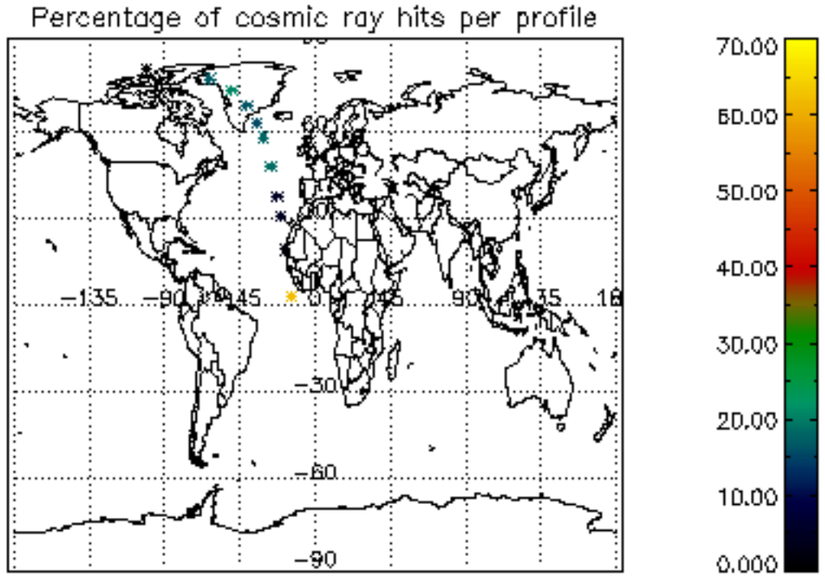
Percentage of flagged data per NO3 profile

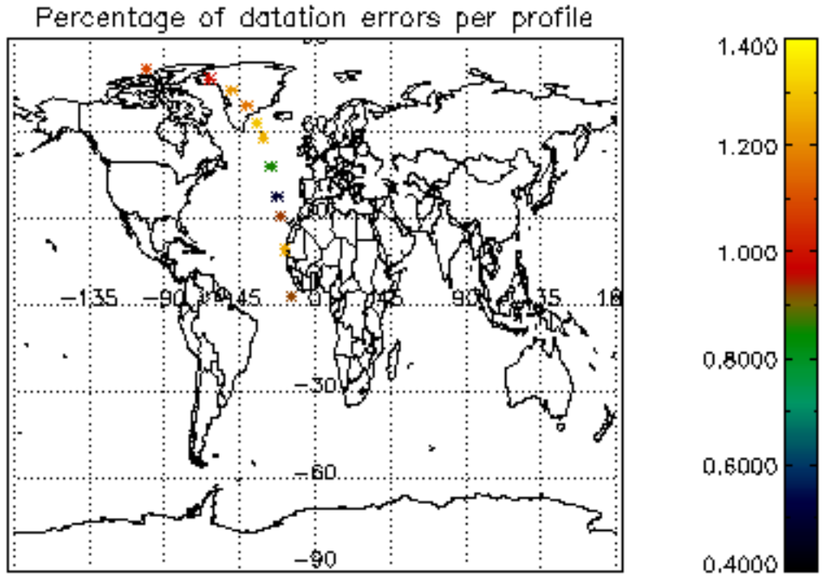


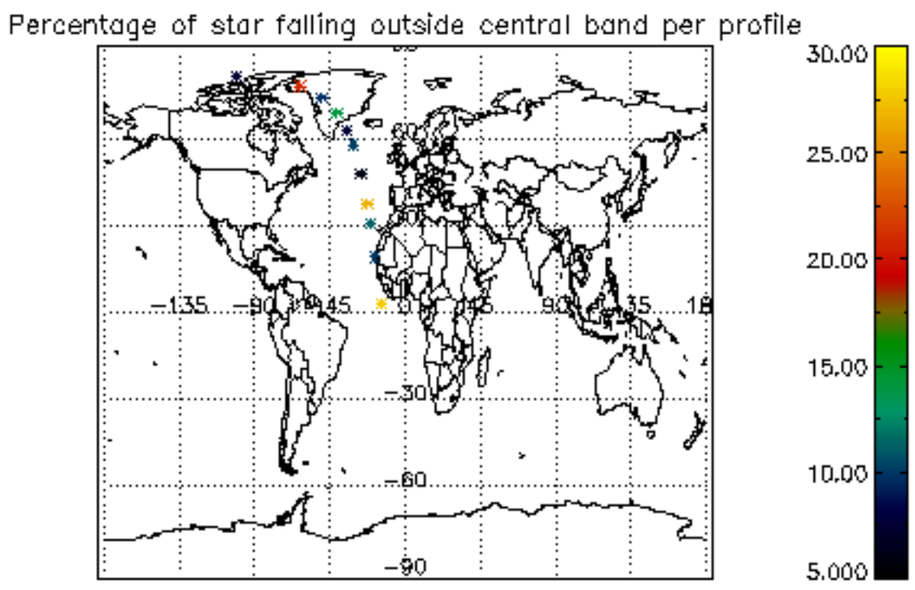


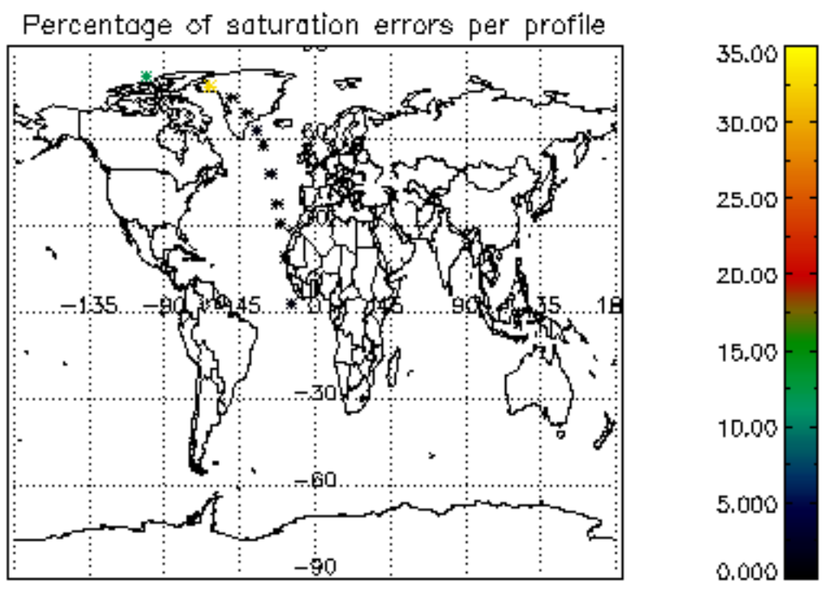

invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm
% of measurements per product:
70
60
50
40
30
20
10
0
value (%)
22:52.30
02/07/2004
23:00.00
02/07/2004
23:07.30
02/07/2004
23:15.00
02/07/2004
23:22.30
02/07/2004
Time


invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm
% of measurements per product:
value (%)
0
5
10
15
20
25
30
35
23:15.00 02/07/2004
23:22.30 02/07/2004
23:30.00 02/07/2004
23:37.30 02/07/2004
23:45.00 02/07/2004
23:52.30 02/07/2004
00:00.00 03/07/2004
Time

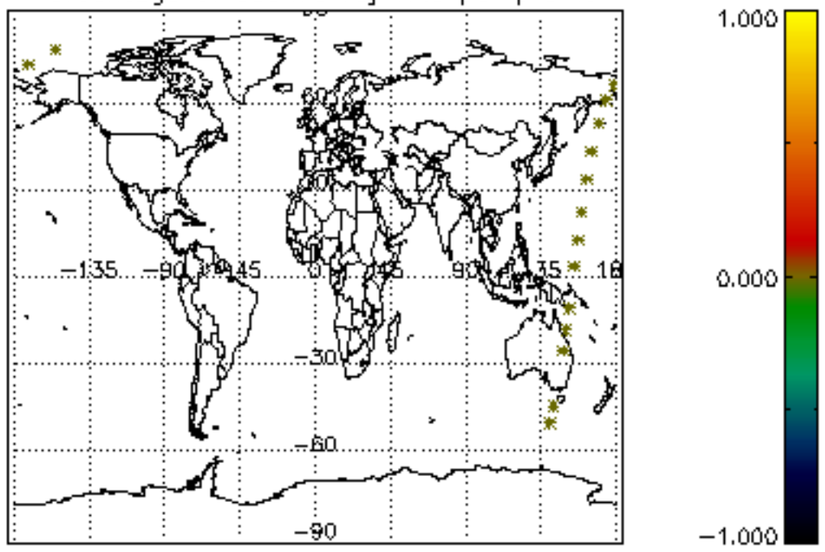

Percentage of cosmic ray hits per profile
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.000
−135
−90
−30
−60
−90


Percentage of datation errors per profile
1.400
1.200
1.000
0.8000
0.6000
0.4000
−135
−90
−30
−60
−90

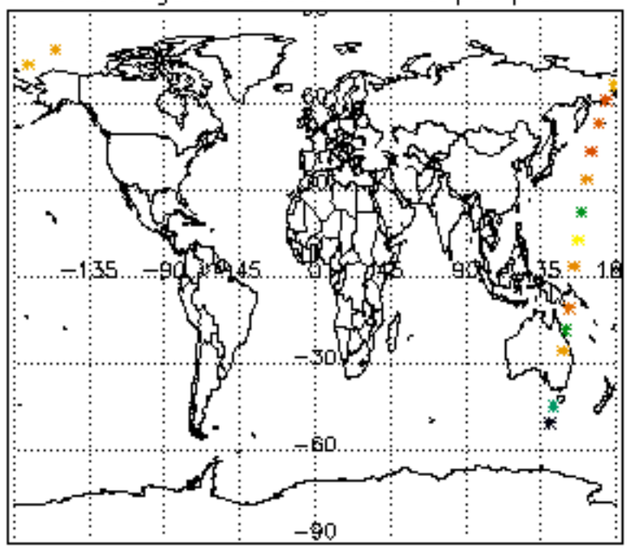

Percentage of star falling outside central band per profile
30.00
25.00
20.00
15.00
10.00
5.000
−135
−90
−30
−60
−90

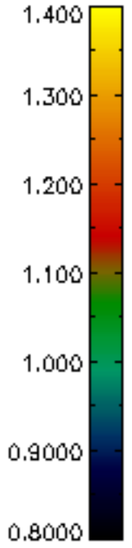

Percentage of saturation errors per profile
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−30
−60
−90

Percentage of cosmic ray hits per profile

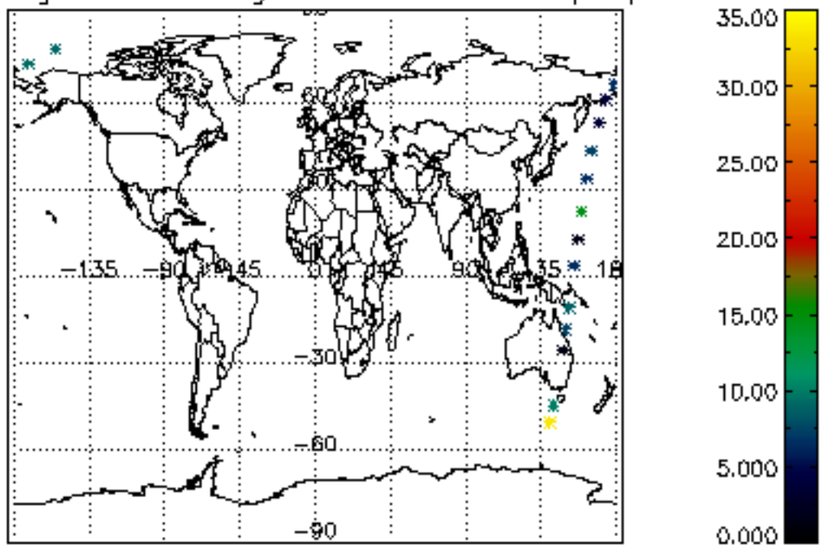


Percentage of datation errors per profile

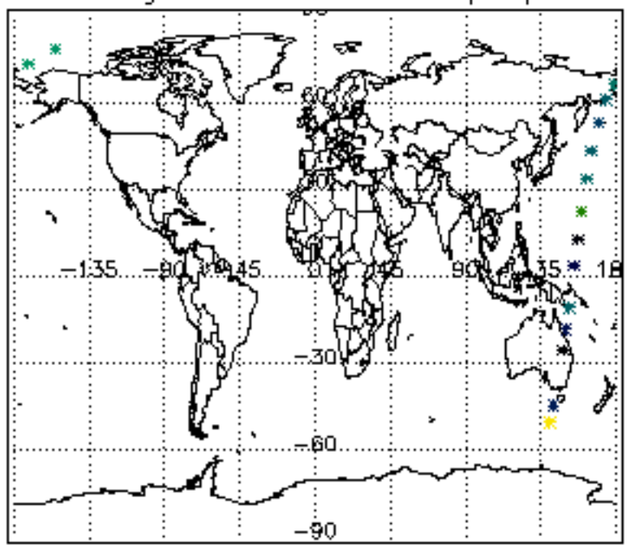


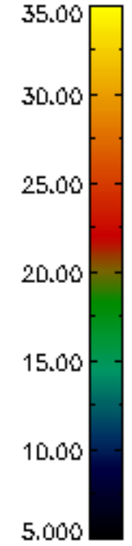


Percentage of star falling outside central band per profile

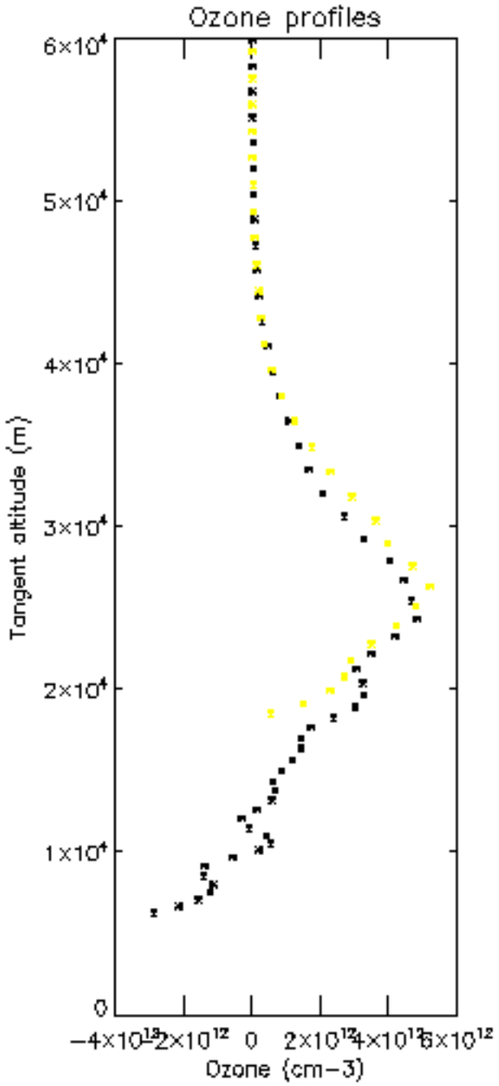


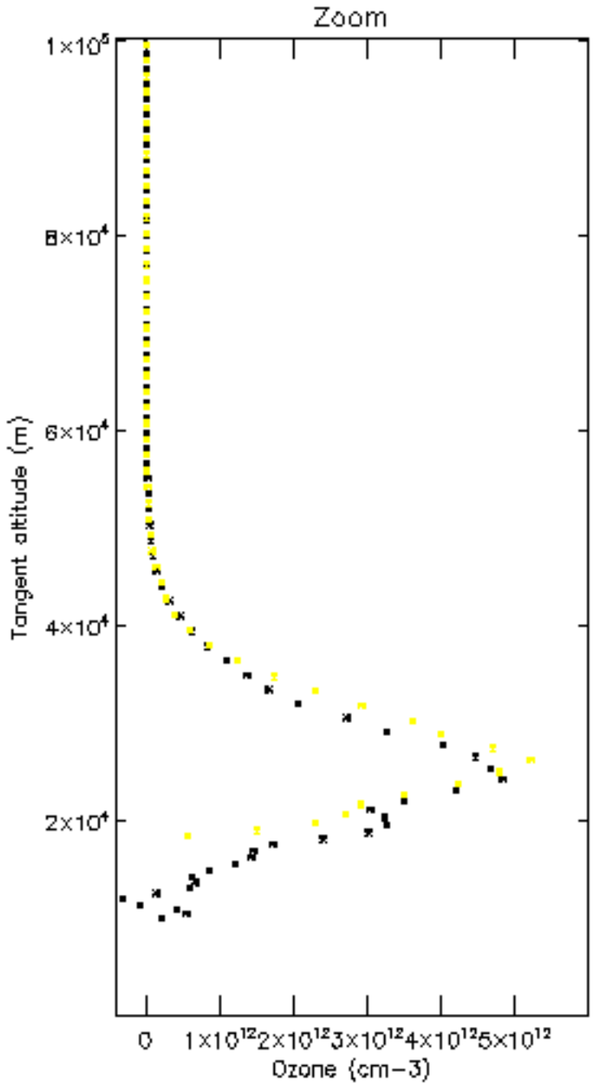
Percentage of saturation errors per profile

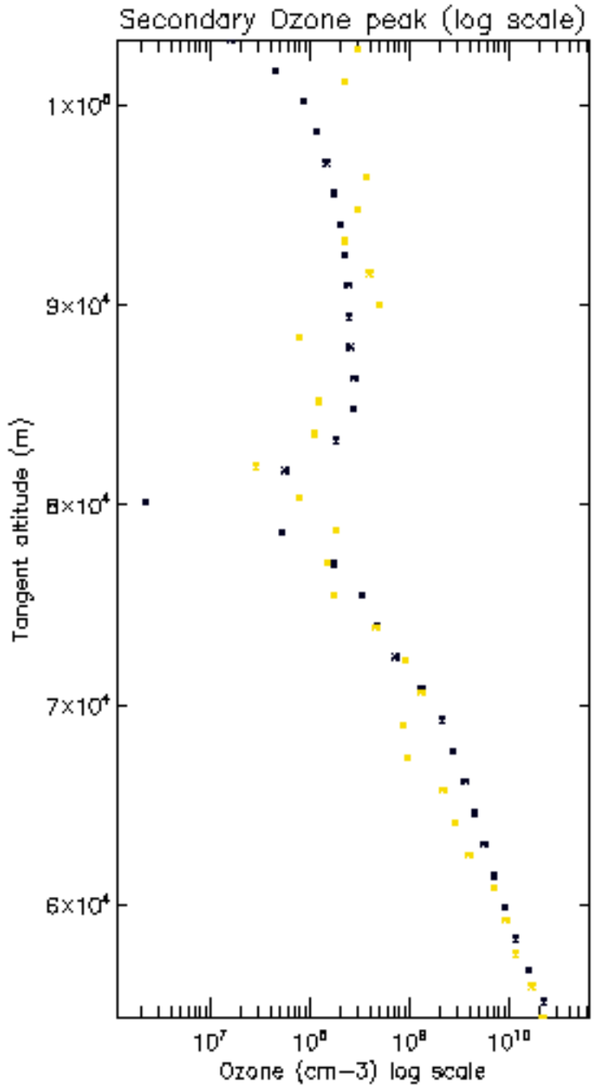


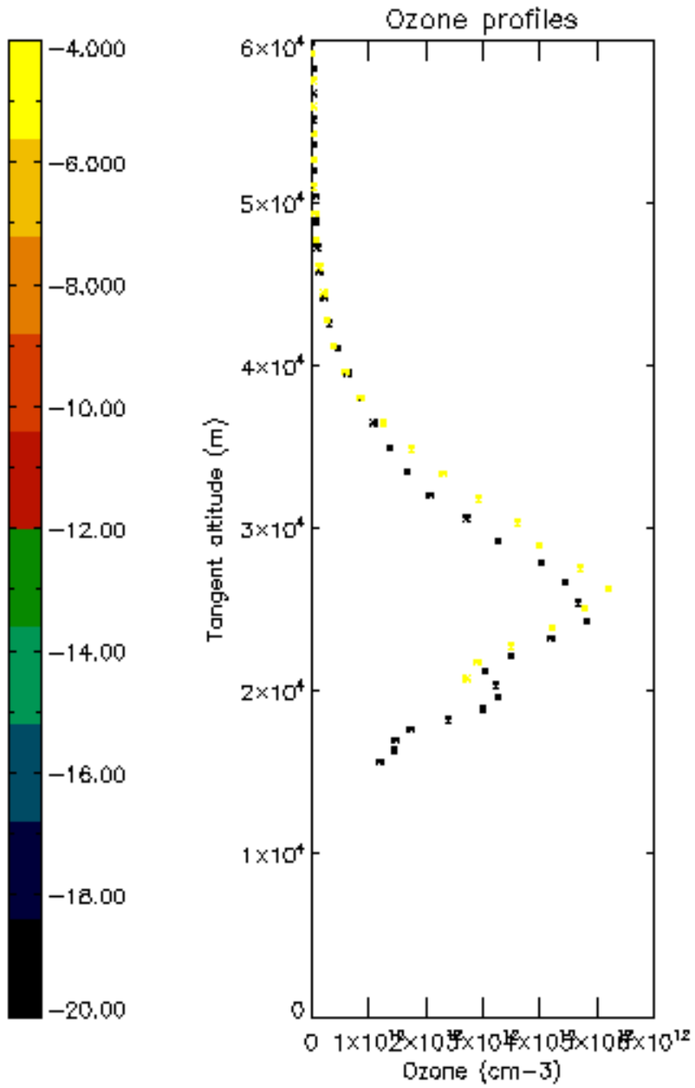



−4.000
−6.000
−8.000
−10.00
−12.00
−14.00
−16.00
−18.00
−20.00

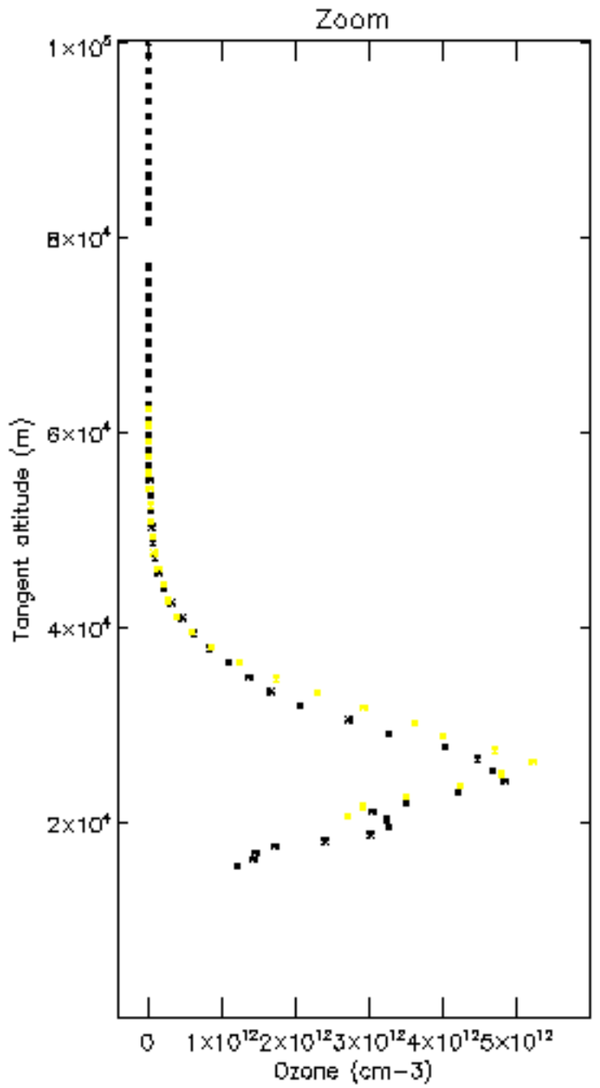

Ozone profiles
Tangent altitude (m)
6×10⁴
5×10⁴
4×10⁴
3×10⁴
2×10⁴
1×10⁴
0
−4×10¹²
−2×10¹²
0
2×10¹²
4×10¹²
6×10¹²
Ozone (cm−3)

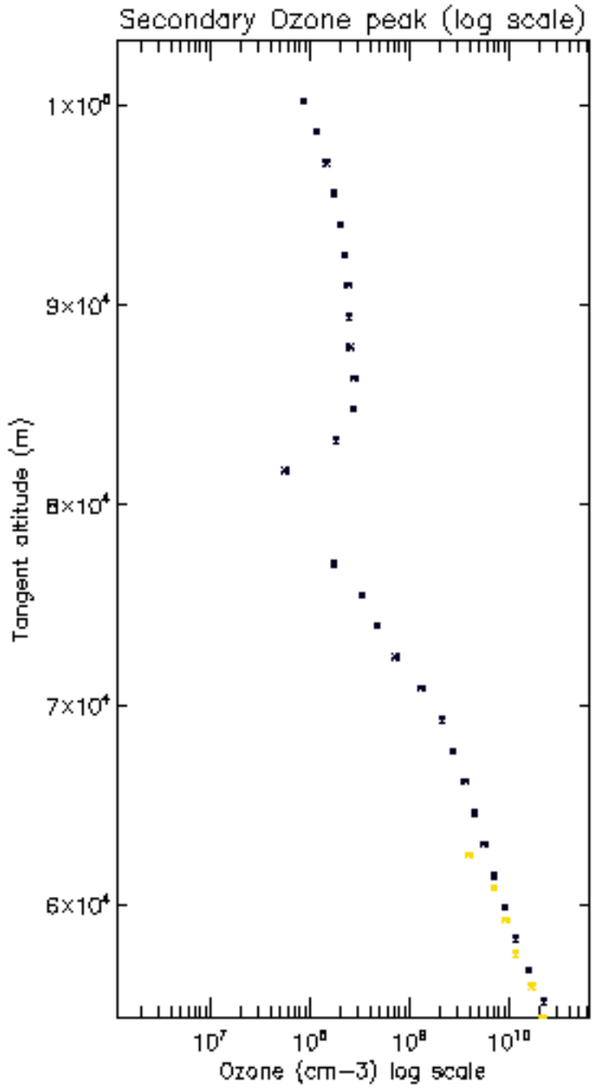

Zoom
Tangent altitude (m)
1×10⁵
8×10⁴
6×10⁴
4×10⁴
2×10⁴
0
1×10¹²
2×10¹²
3×10¹²
4×10¹²
5×10¹²
Ozone (cm−3)

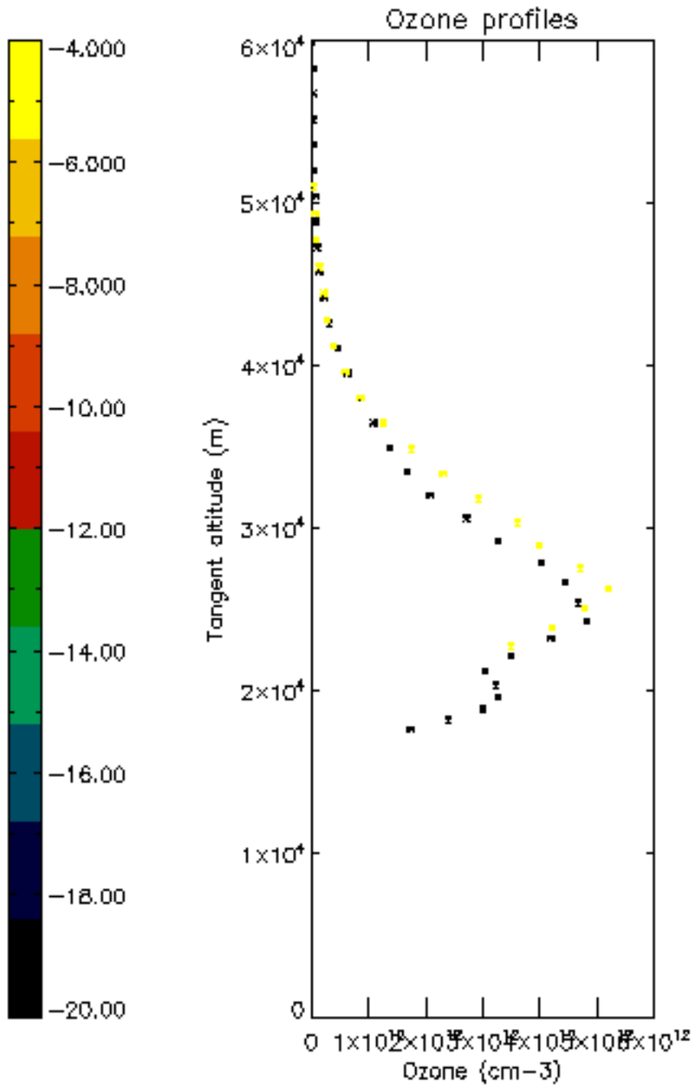

Secondary Ozone peak (log scale)
Tangent altitude (m)
1×10⁵
9×10⁴
8×10⁴
7×10⁴
6×10⁴
10⁷
10⁸
10⁹
10¹⁰
Ozone (cm−3) log scale


−4.000
−6.000
−8.000
−10.00
−12.00
−14.00
−16.00
−18.00
−20.00

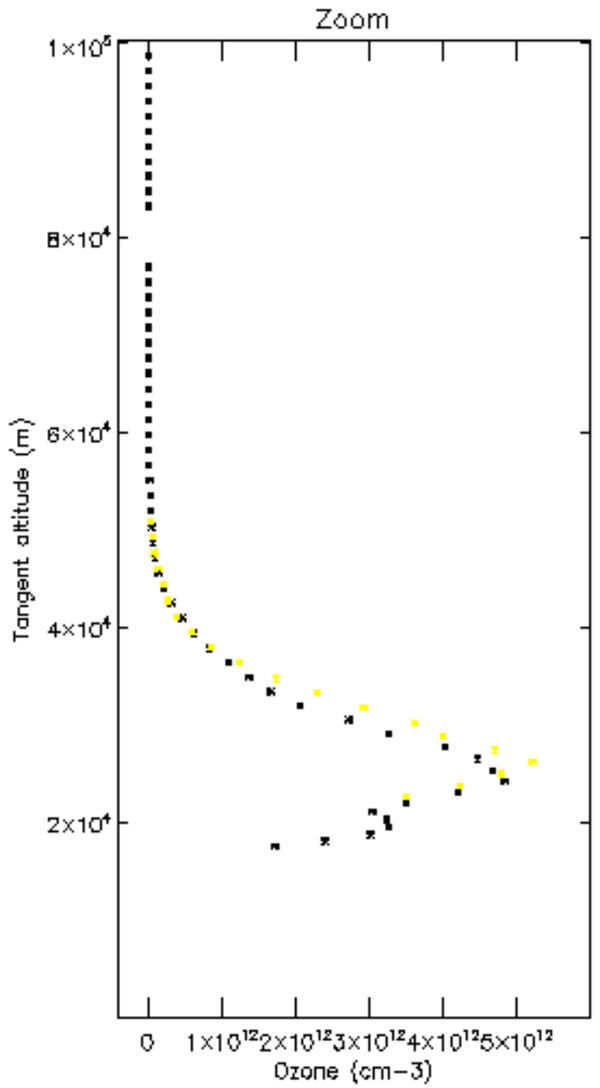
Ozone profiles
Tangent altitude (m)
Ozone (cm−3)
0
1×10⁴
2×10⁴
3×10⁴
4×10⁴
5×10⁴
6×10⁴
0
1×10¹²
2×10¹²
3×10¹²
4×10¹²
5×10¹²
6×10¹²

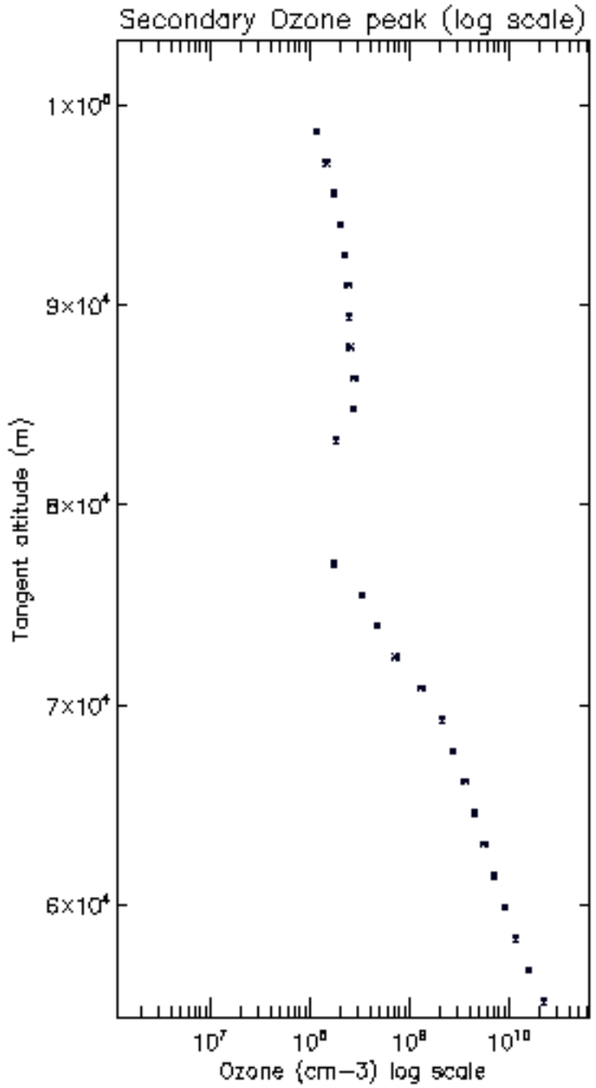

Zoom
Tangent altitude (m)
Ozone (cm−3)
2×10⁴
4×10⁴
6×10⁴
8×10⁴
1×10⁵
0
1×10¹²
2×10¹²
3×10¹²
4×10¹²
5×10¹²

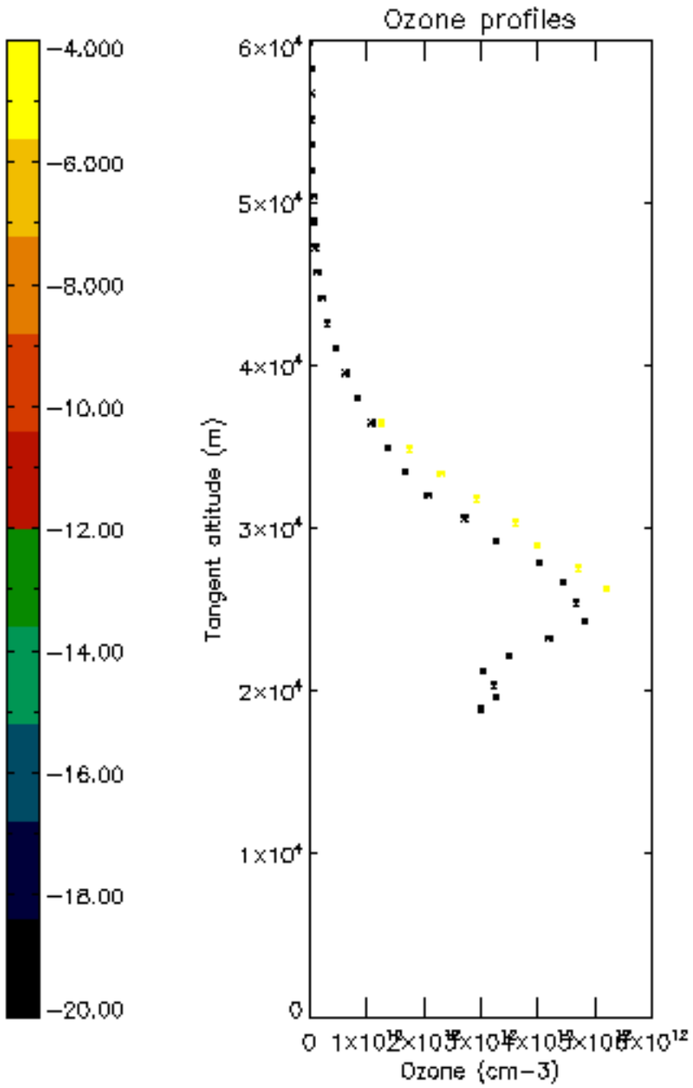

Secondary Ozone peak (log scale)
Tangent altitude (m)
Ozone (cm−3) log scale
6×10⁴
7×10⁴
8×10⁴
9×10⁴
1×10⁵
10⁷
10⁸
10⁹
10¹⁰


−4.000
−6.000
−8.000
−10.00
−12.00
−14.00
−16.00
−18.00
−20.00

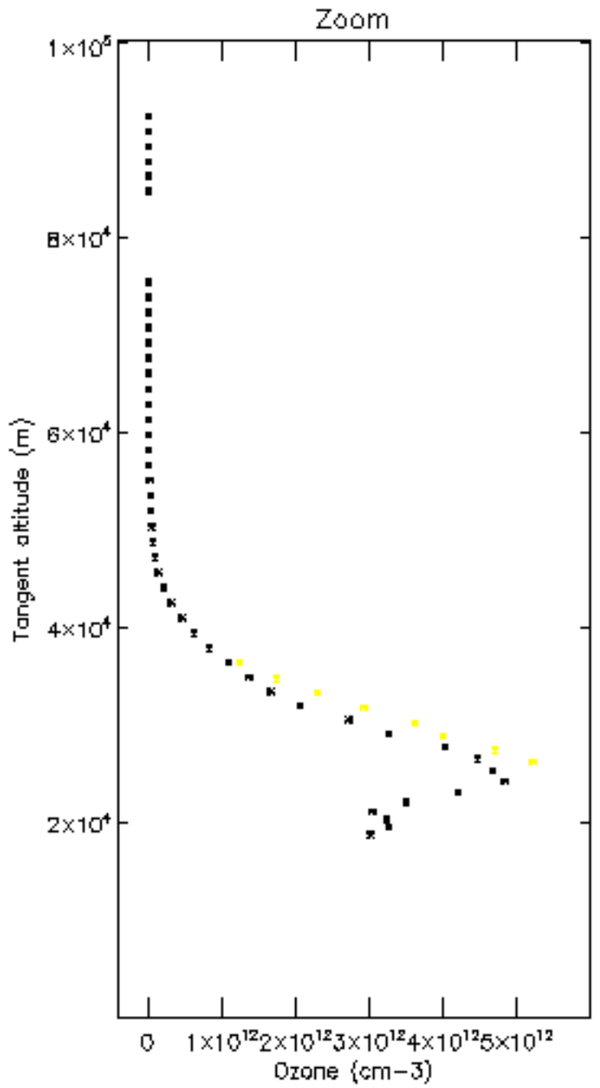
Ozone profiles
Tangent altitude (m)
Ozone (cm−3)
0
1×10⁴
2×10⁴
3×10⁴
4×10⁴
5×10⁴
6×10⁴
0
1×10¹²
2×10¹²
3×10¹²
4×10¹²
5×10¹²
6×10¹²

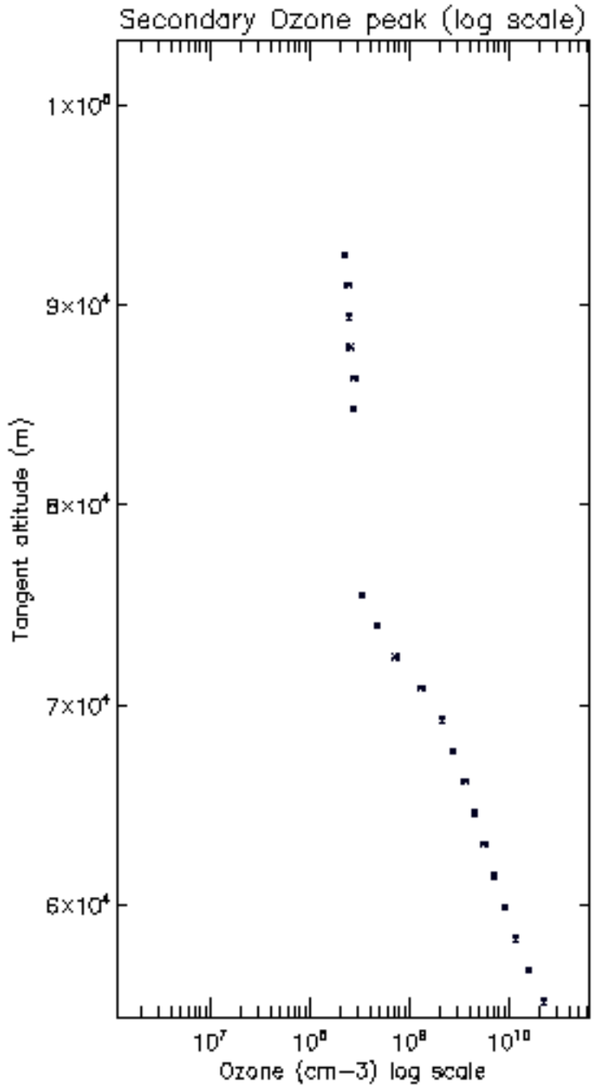

Zoom
Tangent altitude (m)
Ozone (cm−3)
2×10⁴
4×10⁴
6×10⁴
8×10⁴
1×10⁵
0
1×10¹²
2×10¹²
3×10¹²
4×10¹²
5×10¹²

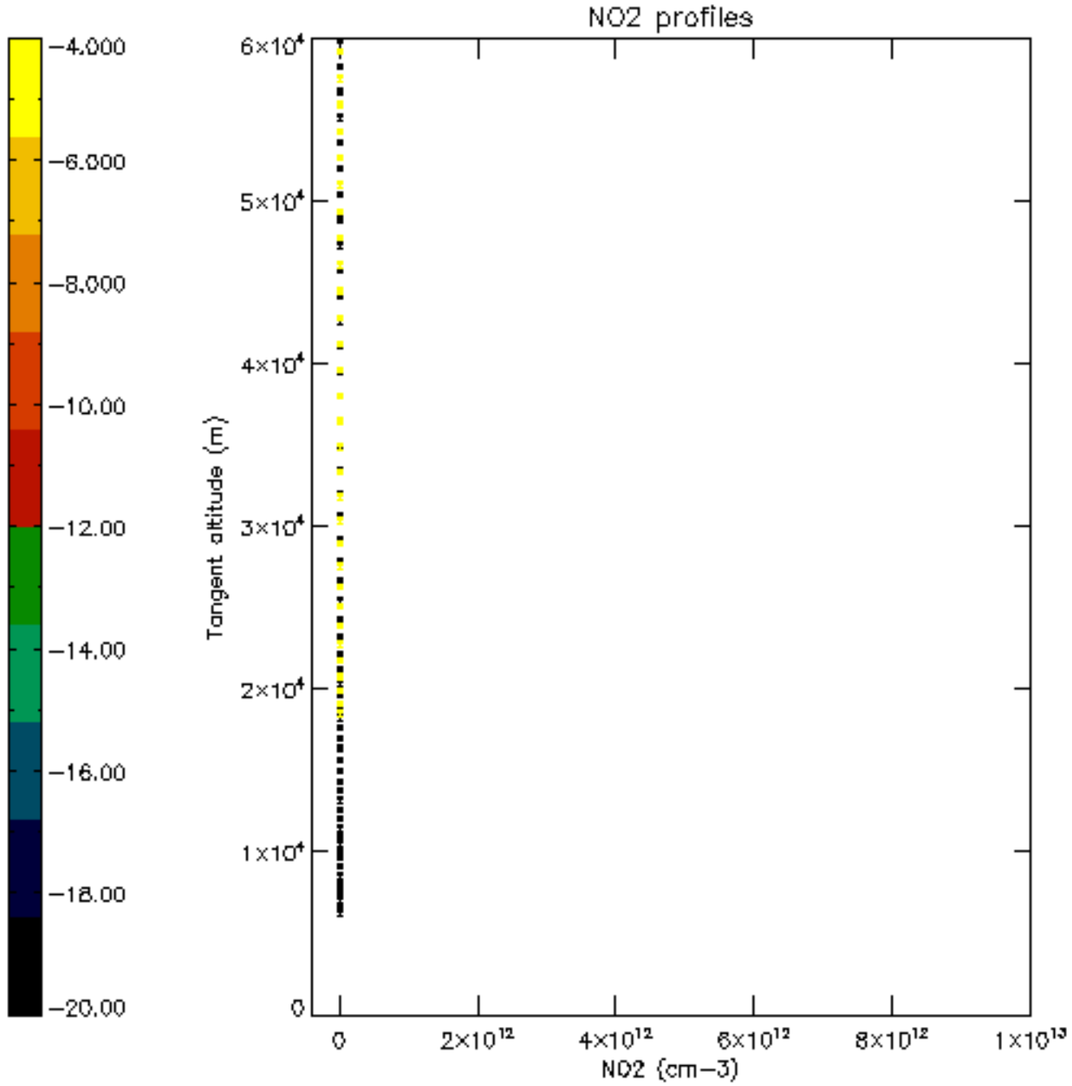

Secondary Ozone peak (log scale)
Tangent altitude (m)
Ozone (cm−3) log scale
6×10⁴
7×10⁴
8×10⁴
9×10⁴
1×10⁵
10⁷
10⁸
10⁹
10¹⁰

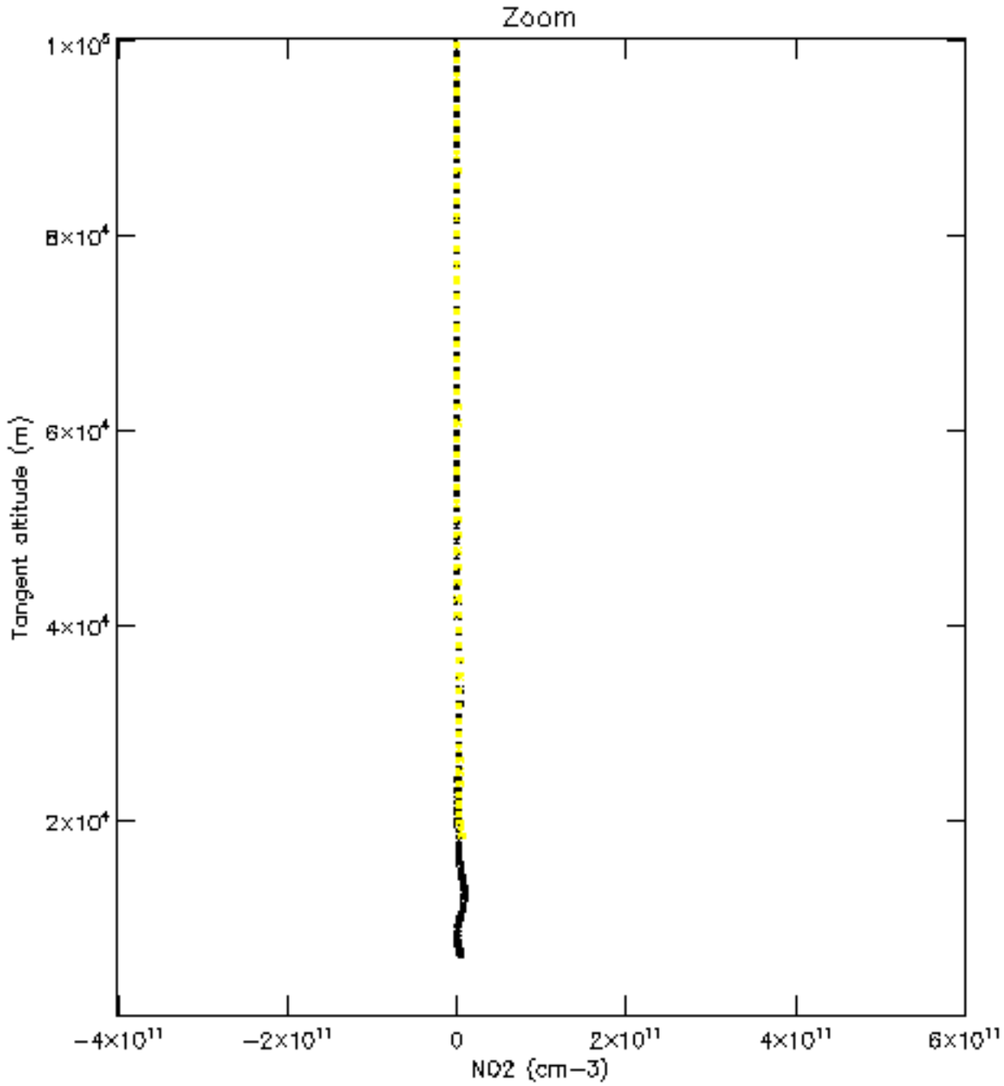

−4.000
−6.000
−8.000
−10.00
−12.00
−14.00
−16.00
−18.00
−20.00

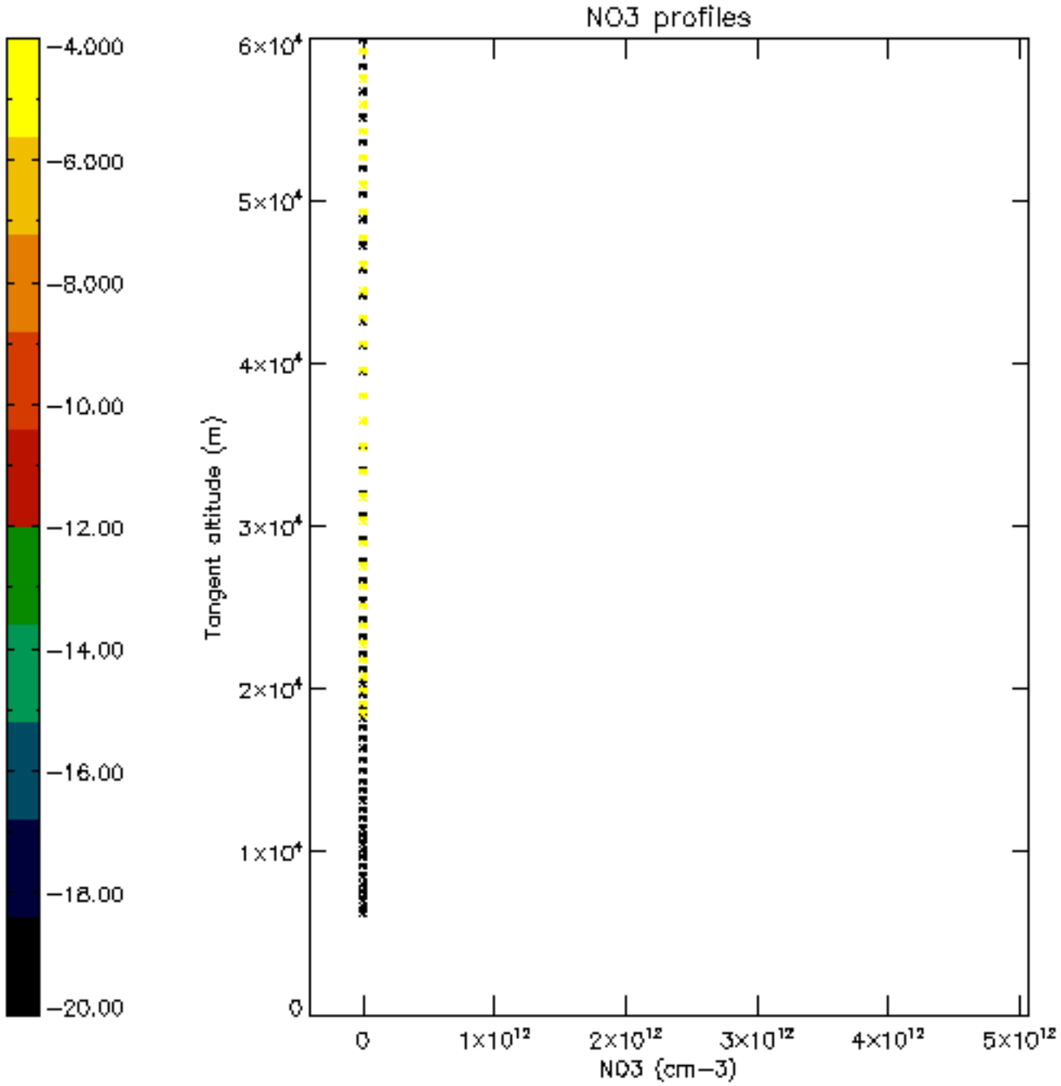
Ozone profiles
6×10⁴
5×10⁴
4×10⁴
3×10⁴
2×10⁴
1×10⁴
0
Tangent altitude (m)
0 1×10¹²
Ozone (cm−3)

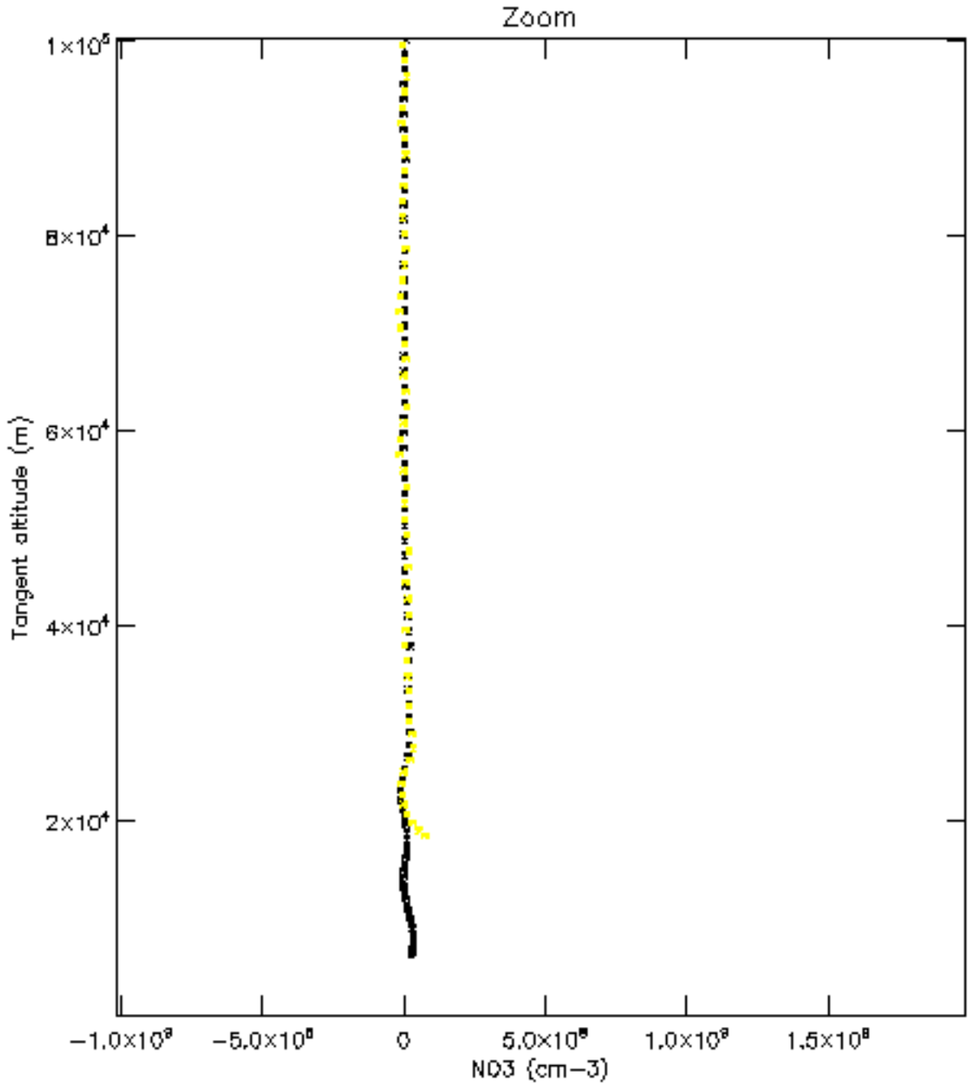

Zoom
1×10⁵
8×10⁴
6×10⁴
4×10⁴
2×10⁴
Tangent altitude (m)
0 1×10¹² 2×10¹² 3×10¹² 4×10¹² 5×10¹²
Ozone (cm−3)


Secondary Ozone peak (log scale)
1×10⁵
9×10⁴
8×10⁴
7×10⁴
6×10⁴
Tangent altitude (m)
10⁷ 10⁸ 10⁹ 10¹⁰
Ozone (cm−3) log scale


NO2 profiles
−4.000
−6.000
−8.000
−10.00
−12.00
−14.00
−16.00
−18.00
−20.00
Tangent altitude (m)
6×10⁴
5×10⁴
4×10⁴
3×10⁴
2×10⁴
1×10⁴
0
0
2×10¹²
4×10¹²
6×10¹²
8×10¹²
1×10¹³
NO2 (cm−3)


Zoom
Tangent altitude (m)
1×10⁵
8×10⁴
6×10⁴
4×10⁴
2×10⁴
−4×10¹¹
−2×10¹¹
0
2×10¹¹
4×10¹¹
6×10¹¹
NO2 (cm−3)


NO3 profiles
−4.000
−6.000
−8.000
−10.00
−12.00
−14.00
−16.00
−18.00
−20.00
Tangent altitude (m)
6×10⁴
5×10⁴
4×10⁴
3×10⁴
2×10⁴
1×10⁴
0
0
1×10¹²
2×10¹²
3×10¹²
4×10¹²
5×10¹²
NO3 (cm−3)


Zoom
Tangent altitude (m)
1×10⁵
8×10⁴
6×10⁴
4×10⁴
2×10⁴
−1.0×10⁸
−5.0×10⁸
0
5.0×10⁸
1.0×10⁹
1.5×10⁹
NO3 (cm−3)