## PyCAMA report generated by tropl2-proc

#### tropl2-proc

#### 2025-02-22 (02:00)

#### **1** Short Introduction

#### 1.1 The list of parameters

You may want to keep the list given in table 1 at hand when viewing the results.

#### 2 Definitions

The averages shown here are unweighed averages:

$$\overline{x} = \frac{1}{N} \sum_{i=1}^{N} x_i \tag{1}$$

with N the number of observations in the dataset.

The spread of the measurements is indicated with the variance V(x), or rather the standard deviation  $\sigma(x) = \sqrt{V(x)}$ .

$$V(x) = \frac{1}{N-1} \sum_{i=1}^{N} (x_i - \bar{x})^2$$
(2)

We also report the more robust statistics median, minimum, maximum, various percentiles and inter quartile range.

The median m is the value of parameter x for which half of the observations of x is smaller than m:

$$P(x \le m) = P(x \ge m) = \int_{-\infty}^{m} f(x) \, \mathrm{d}x = \frac{1}{2}$$
(3)

with f(x) the probability density function.

The median is a special case of a percentile. Instead of  $\frac{1}{2}$  in equation 3, other threshold values can be used. We report results for 1%, 5%, 10%, 15.9%, 25%, 75%, 84.1%, 90%, 95% and 99%. The inter quartile range is the difference between the 75% and 25% percentiles. Similarly the minimum and maximum values correspond to the 0% and 100% percentiles respectively.

For normally distributed parameters the mean and median are the same, while the  $\mu \pm \sigma$  values and the 15.9% and 84.1% percentiles coincide.

To get a measure for the relation of one variable  $x_{(k)}$  with another  $x_{(l)}$ , we calculate the covariance matrix  $C_{kl}$ .

$$C_{kl} = C(x_{(k)}, x_{(l)}) = \frac{1}{N-1} \sum_{i=1}^{N} (x_{(k),i} - \overline{x_{(k)}}) (x_{(l),i} - \overline{x_{(l)}})$$
(4)

Rather than a dimensionally dependent covariance, it is often easier to interpret a correlation matrix  $R_{kl}$ , a matrix of Pearson's *r* coefficients:

$$R_{kl} = R(x_{(k)}, x_{(l)}) = \frac{C_{kl}}{\sqrt{C_{kk}C_{ll}}} = \frac{C_{kl}}{\sqrt{V(x_k)V(x_l)}}$$
(5)

The diagonal elements of the covariance matrix are the variances of the elements,  $V(x_{(k)}) = C_{kk}$  and obviously  $R_{kk} = 1$ .

	Table 1. Falameter	list and basic	statistics for the al	lafysis			
Variable	mean $\pm \sigma$	Count	Mode	IQR	Median	Minimum	Maximum
qa value [1]	$0.831 \pm 0.251$	23309226	0.905	0.150	0.900	0.0	1.000
ozone total vertical column [mol $m^{-2}$ ]	$0.135 \pm 0.023$	23309226	0.116	$2.690  imes 10^{-2}$	0.127	$9.488 imes10^{-2}$	0.323
ozone total vertical column precision $[mol m^{-2}]$	$(3.515 \pm 3.640) \times 10^{-3}$	23309226	$2.025  imes 10^{-3}$	$1.204 imes10^{-3}$	$2.268 imes10^{-3}$	$8.145 imes10^{-4}$	$5.824  imes 10^{-2}$
ozone slant column density $[mol m^{-2}]$	$0.497 \pm 0.263$	23309226	0.255	0.338	0.401	0.207	1.79
ozone slant column precision [mol m <sup>-2</sup> ]	$(3.691 \pm 3.951) \times 10^{-3}$	23309226	$1.995 imes 10^{-3}$	$1.299 imes10^{-3}$	$2.332  imes 10^{-3}$	$8.167 imes10^{-4}$	$7.043  imes 10^{-2}$
number of iterations slant column [1]	$3.02 \pm 0.25$	23309226	3.00	0.0	3.00	2.00	15.0
root mean square slant column fit [1]	$(1.425 \pm 1.526) \times 10^{-3}$	23309226	$7.500 imes10^{-4}$	$5.024 imes10^{-4}$	$9.006 imes10^{-4}$	$3.123 imes10^{-4}$	$2.704\times10^{-2}$
fitted radiance shift [nm]	$(-7.866 \pm 32.723) \times 10^{-4}$	23309226	$-1.500\times10^{-3}$	$2.569\times10^{-3}$	$-1.059\times10^{-3}$	$-7.365\times10^{-2}$	0.109
fitted radiance squeeze [1]	$(1.261 \pm 3.340) \times 10^{-4}$	23309226	$1.000  imes 10^{-4}$	$3.168 imes10^{-4}$	$1.298 imes10^{-4}$	$-2.554 imes10^{-2}$	$8.765  imes 10^{-3}$
ozone total air mass factor [1]	$3.76 \pm 1.85$	23309226	2.15	1.82	3.08	1.96	11.8
ozone effective temperature [K]	$231\pm9$	23309226	231	10.2	231	51.1	394
number of iterations vertical column [1]	$2.04\pm0.50$	23309226	2.14	0.0	2.00	1.000	15.0

Table 1: Parameterlist and basic statistics for the analysis	
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Table 2: Percentile ranges										
Variable	1 %	5%	10 %	15.9 %	25 %	75 %	84.1 %	90%	95 %	99 %
qa value [1]	0.0	0.140	0.450	0.680	0.850	1.000	1.000	1.000	1.000	1.000
ozone total vertical column [mol m <sup>-2</sup> ]	0.109	0.112	0.114	0.116	0.118	0.145	0.160	0.174	0.186	0.204
ozone total vertical column precision [mol m <sup>-2</sup> ]	$1.451 \times 10^{-3}$	$1.626  imes 10^{-3}$	$1.730 imes10^{-3}$	$1.817 imes10^{-3}$	$1.929 imes10^{-3}$	$3.134 imes10^{-3}$	$4.245 imes10^{-3}$	$6.375 imes10^{-3}$	$1.136 imes10^{-2}$	$2.070 imes10^{-2}$
ozone slant column density [mol m <sup>-2</sup> ]	0.237	0.246	0.256	0.268	0.292	0.631	0.762	0.895	1.07	1.30
ozone slant column precision [mol m <sup>-2</sup> ]	$1.470 \times 10^{-3}$	$1.654 \times 10^{-3}$	$1.762 imes10^{-3}$	$1.853  imes 10^{-3}$	$1.970 imes10^{-3}$	$3.269  imes 10^{-3}$	$4.486  imes 10^{-3}$	$6.810 imes10^{-3}$	$1.220 imes10^{-2}$	$2.234 imes10^{-2}$
number of iterations slant column [1]	2.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	4.00
root mean square slant column fit [1]	$5.673 \times 10^{-4}$	$6.382 imes10^{-4}$	$6.799 imes10^{-4}$	$7.151 imes10^{-4}$	$7.607 imes10^{-4}$	$1.263 imes10^{-3}$	$1.732  imes 10^{-3}$	$2.630 imes10^{-3}$	$4.712  imes 10^{-3}$	$8.630 imes10^{-3}$
fitted radiance shift [nm]	$-9.878 \times 10^{-3}$	$-5.284  imes 10^{-3}$	$-3.735  imes 10^{-3}$	$-2.907  imes 10^{-3}$	$-2.209 \times 10^{-3}$	$3.592  imes 10^{-4}$	$1.454  imes 10^{-3}$	$2.713  imes 10^{-3}$	$4.838 imes10^{-3}$	$9.852 \times 10^{-3}$
fitted radiance squeeze [1]	$-9.752 \times 10^{-4}$	$-3.161  imes 10^{-4}$	$-1.834 imes10^{-4}$	$-1.056\times10^{-4}$	$-2.570  imes 10^{-5}$	$2.911 imes10^{-4}$	$3.772  imes 10^{-4}$	$4.600  imes 10^{-4}$	$5.879 imes10^{-4}$	$9.743 imes10^{-4}$
ozone total air mass factor [1]	2.11	2.16	2.22	2.31	2.47	4.29	5.45	6.67	8.17	9.76
ozone effective temperature [K]	204	213	221	224	227	237	240	242	245	254
number of iterations vertical column [1]	1.000	1.000	2.00	2.00	2.00	2.00	2.00	3.00	3.00	4.00

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Variable	mean $\pm \sigma$	Count	IQR	Median	Minimum	Maximum	25 % percentile	75 % percentile
qa value [1]	$0.796 \pm 0.282$	10978657	0.200	0.900	0.0	1.000	0.800	1.000
ozone total vertical column [mol m <sup>-2</sup> ]	$0.146 \pm 0.029$	10978657	$5.140  imes 10^{-2}$	0.140	$9.488 imes10^{-2}$	0.323	0.118	0.170
ozone total vertical column precision $[mol m^{-2}]$	$(4.162 \pm 4.351) \times 10^{-3}$	10978657	$1.875  imes 10^{-3}$	$2.505  imes 10^{-3}$	$8.862 imes10^{-4}$	$5.675 imes10^{-2}$	$2.015  imes 10^{-3}$	$3.890  imes 10^{-3}$
ozone slant column density $[mol m^{-2}]$	$0.565 \pm 0.294$	10978657	0.424	0.494	0.220	1.79	0.312	0.736
ozone slant column precision [mol m <sup>-2</sup> ]	$(4.391 \pm 4.731) \times 10^{-3}$	10978657	$2.030\times10^{-3}$	$2.582  imes 10^{-3}$	$8.831 imes10^{-4}$	$7.043  imes 10^{-2}$	$2.057\times10^{-3}$	$4.087 imes10^{-3}$
number of iterations slant column [1]	$3.04 \pm 0.30$	10978657	0.0	3.00	2.00	15.0	3.00	3.00
root mean square slant column fit [1]	$(1.696 \pm 1.828) \times 10^{-3}$	10978657	$7.845 imes10^{-4}$	$9.970 imes10^{-4}$	$3.418 imes10^{-4}$	$2.704 imes10^{-2}$	$7.943 imes10^{-4}$	$1.579 imes10^{-3}$
fitted radiance shift [nm]	$(-1.892 \pm 34.429) \times 10^{-4}$	10978657	$2.724  imes 10^{-3}$	$-5.671\times10^{-4}$	$-7.365\times10^{-2}$	$4.325  imes 10^{-2}$	$-1.706  imes 10^{-3}$	$1.018 imes10^{-3}$
fitted radiance squeeze [1]	$(1.473 \pm 3.543) \times 10^{-4}$	10978657	$3.383 imes10^{-4}$	$1.383 imes10^{-4}$	$-2.554 imes10^{-2}$	$6.036  imes 10^{-3}$	$-2.467\times10^{-5}$	$3.137 imes10^{-4}$
ozone total air mass factor [1]	$3.98 \pm 1.97$	10978657	2.14	3.24	1.96	11.8	2.55	4.68
ozone effective temperature [K]	$226\pm9$	10978657	9.02	228	143	278	223	232
number of iterations vertical column [1]	$2.08 \pm 0.54$	10978657	0.0	2.00	1.000	13.0	2.00	2.00

Table 4: Parameterlist and basic statistics for the analy	vsis for observations in the southern hemisphere	

Variable	mean $\pm \sigma$	Count	IQR	Median	Minimum	Maximum	25 % percentile	75 % percentile
qa value [1]	$0.862 \pm 0.215$	12330569	0.1000	0.900	0.0	1.000	0.900	1.000
ozone total vertical column [mol m <sup>-2</sup> ]	$0.126 \pm 0.011$	12330569	$1.592 imes10^{-2}$	0.122	$9.611 imes10^{-2}$	0.323	0.118	0.134
ozone total vertical column precision $[mol m^{-2}]$	$(2.940 \pm 2.737) \times 10^{-3}$	12330569	$7.912  imes 10^{-4}$	$2.145\times10^{-3}$	$8.145 imes10^{-4}$	$5.824 imes10^{-2}$	$1.875 imes10^{-3}$	$2.667 imes10^{-3}$
ozone slant column density [mol m <sup>-2</sup> ]	$0.438 \pm 0.216$	12330569	0.228	0.365	0.207	1.46	0.283	0.511
ozone slant column precision [mol m <sup>-2</sup> ]	$(3.068 \pm 2.958) \times 10^{-3}$	12330569	$8.530  imes 10^{-4}$	$2.201  imes 10^{-3}$	$8.167 imes10^{-4}$	$6.353 imes10^{-2}$	$1.915  imes 10^{-3}$	$2.768 imes10^{-3}$
number of iterations slant column [1]	$3.01 \pm 0.20$	12330569	0.0	3.00	2.00	8.00	3.00	3.00
root mean square slant column fit [1]	$(1.185 \pm 1.142) \times 10^{-3}$	12330569	$3.301  imes 10^{-4}$	$8.502  imes 10^{-4}$	$3.123  imes 10^{-4}$	$2.484 imes10^{-2}$	$7.391 imes10^{-4}$	$1.069  imes 10^{-3}$
fitted radiance shift [nm]	$(-1.318 \pm 3.015) \times 10^{-3}$	12330569	$2.257  imes 10^{-3}$	$-1.461 \times 10^{-3}$	$-4.438\times10^{-2}$	0.109	$-2.542 \times 10^{-3}$	$-2.841 \times 10^{-4}$
fitted radiance squeeze [1]	$(1.073 \pm 3.136) \times 10^{-4}$	12330569	$3.001  imes 10^{-4}$	$1.229  imes 10^{-4}$	$-1.478\times10^{-2}$	$8.765  imes 10^{-3}$	$-2.653 imes10^{-5}$	$2.736 imes10^{-4}$
ozone total air mass factor [1]	$3.57 \pm 1.72$	12330569	1.58	2.94	1.96	11.4	2.41	3.99
ozone effective temperature [K]	$236\pm7$	12330569	10.7	235	51.1	394	230	241
number of iterations vertical column [1]	$2.01 \pm 0.46$	12330569	0.0	2.00	1.000	15.0	2.00	2.00
	•							

	Table 5: Parameterlist and	d basic stati	stics for the ana	lysis for observa	tions over water			
Variable	mean $\pm \sigma$	Count	IQR	Median	Minimum	Maximum	25 % percentile	75 % percentile
qa value [1]	$0.881 \pm 0.215$	14332380	0.1000	0.900	0.0	1.000	0.900	1.000
ozone total vertical column [mol m <sup>-2</sup> ]	$0.131 \pm 0.021$	14332380	$2.094  imes 10^{-2}$	0.122	$9.488  imes 10^{-2}$	0.323	0.117	0.138
ozone total vertical column precision [mol m <sup>-2</sup> ]	$(3.030 \pm 3.376) \times 10^{-3}$	14332380	$6.914 imes10^{-4}$	$2.094  imes 10^{-3}$	$8.742  imes 10^{-4}$	$5.675 imes10^{-2}$	$1.855 imes10^{-3}$	$2.546  imes 10^{-3}$
ozone slant column density [mol m <sup>-2</sup> ]	$0.425 \pm 0.231$	14332380	0.182	0.346	0.207	1.70	0.277	0.460
ozone slant column precision [mol m <sup>-2</sup> ]	$(3.162 \pm 3.677) \times 10^{-3}$	14332380	$7.292  imes 10^{-4}$	$2.143  imes 10^{-3}$	$8.768 imes10^{-4}$	$7.043  imes 10^{-2}$	$1.893  imes 10^{-3}$	$2.622  imes 10^{-3}$
number of iterations slant column [1]	$3.02 \pm 0.25$	14332380	0.0	3.00	2.00	15.0	3.00	3.00
root mean square slant column fit [1]	$(1.220 \pm 1.418) \times 10^{-3}$	14332380	$2.817 imes10^{-4}$	$8.276 imes10^{-4}$	$3.310 imes10^{-4}$	$2.704 imes10^{-2}$	$7.307 imes10^{-4}$	$1.012  imes 10^{-3}$
fitted radiance shift [nm]	$(-8.932\pm33.043)\times10^{-4}$	14332380	$2.548  imes 10^{-3}$	$-1.106 \times 10^{-3}$	$-7.365\times10^{-2}$	$3.877  imes 10^{-2}$	$-2.304 imes10^{-3}$	$2.439 imes10^{-4}$
fitted radiance squeeze [1]	$(1.187 \pm 2.975) \times 10^{-4}$	14332380	$2.900  imes 10^{-4}$	$1.137 imes10^{-4}$	$-2.554\times10^{-2}$	$6.036  imes 10^{-3}$	$-2.808 imes10^{-5}$	$2.619\times10^{-4}$
ozone total air mass factor [1]	$3.28 \pm 1.53$	14332380	1.05	2.79	2.00	11.7	2.38	3.43
ozone effective temperature [K]	$231\pm 8$	14332380	8.37	231	165	294	227	236
number of iterations vertical column [1]	$2.02 \pm 0.48$	14332380	0.0	2.00	1.000	12.0	2.00	2.00
	1							

#### Table 6: Parameterlist and basic statistics for the analysis for observations over land

Variable	mean $\pm \sigma$	Count	IQR	Median	Minimum	Maximum	25 % percentile	75 % percentile
qa value [1]	$0.758 \pm 0.279$	7012760	0.260	0.900	0.0	1.000	0.640	0.900
ozone total vertical column [mol m <sup>-2</sup> ]	$0.140 \pm 0.024$	7012760	$3.061  imes 10^{-2}$	0.134	$9.732  imes 10^{-2}$	0.323	0.120	0.151
ozone total vertical column precision $[mol m^{-2}]$	$(4.137 \pm 3.743) \times 10^{-3}$	7012760	$2.069 \times 10^{-3}$	$2.724  imes 10^{-3}$	$8.145 imes10^{-4}$	$5.824  imes 10^{-2}$	$2.153 imes10^{-3}$	$4.222  imes 10^{-3}$
ozone slant column density [mol m <sup>-2</sup> ]	$0.597 \pm 0.264$	7012760	0.404	0.573	0.218	1.75	0.362	0.765
ozone slant column precision [mol m <sup>-2</sup> ]	$(4.367 \pm 4.042) \times 10^{-3}$	7012760	$2.264  imes 10^{-3}$	$2.839 \times 10^{-3}$	$8.167 imes10^{-4}$	$6.353\times10^{-2}$	$2.212  imes 10^{-3}$	$4.477\times10^{-3}$
number of iterations slant column [1]	$3.03\pm0.25$	7012760	0.0	3.00	2.00	8.00	3.00	3.00
root mean square slant column fit [1]	$(1.688 \pm 1.563) \times 10^{-3}$	7012760	$8.755  imes 10^{-4}$	$1.097 \times 10^{-3}$	$3.123  imes 10^{-4}$	$2.484 imes10^{-2}$	$8.544 imes10^{-4}$	$1.730 \times 10^{-3}$
fitted radiance shift [nm]	$(-8.087 \pm 31.547) \times 10^{-4}$	7012760	$2.437  imes 10^{-3}$	$-1.171  imes 10^{-3}$	$-4.866  imes 10^{-2}$	0.109	$-2.197  imes 10^{-3}$	$2.400  imes 10^{-4}$
fitted radiance squeeze [1]	$(1.196 \pm 3.869) \times 10^{-4}$	7012760	$3.561 \times 10^{-4}$	$1.514 imes10^{-4}$	$-1.034 imes10^{-2}$	$8.765  imes 10^{-3}$	$-3.098 \times 10^{-5}$	$3.251 imes10^{-4}$
ozone total air mass factor [1]	$4.50\pm2.09$	7012760	2.88	3.98	1.96	11.8	2.75	5.63
ozone effective temperature [K]	$234 \pm 11$	7012760	14.7	233	51.1	394	228	242
number of iterations vertical column [1]	$2.08\pm0.52$	7012760	0.0	2.00	1.000	15.0	2.00	2.00

# Granule outlines



Figure 1: Outline of the granules.

## 4 Input data monitoring



Figure 2: Input data per granule

# 5 Warnings and errors



Figure 3: Fraction of pixels with specific warnings and errors during processing

# 6 World maps



Figure 4: Map of "O<sub>3</sub> vertical column" for 2025-02-20 to 2025-02-21





Figure 5: Map of " $O_3$  vertical column precision" for 2025-02-20 to 2025-02-21



Figure 6: Map of "O<sub>3</sub> slant column" for 2025-02-20 to 2025-02-21



Figure 7: Map of "O<sub>3</sub> slant column precision" for 2025-02-20 to 2025-02-21



Figure 8: Map of "Number of iterations for slant column retrieval" for 2025-02-20 to 2025-02-21



Figure 9: Map of "Fitting RMS" for 2025-02-20 to 2025-02-21



Figure 10: Map of "DOAS fit wavelength shift" for 2025-02-20 to 2025-02-21



Figure 11: Map of "DOAS fit wavelength squeeze" for 2025-02-20 to 2025-02-21



Figure 12: Map of "Airmass factor" for 2025-02-20 to 2025-02-21



Figure 13: Map of "Effective temperature" for 2025-02-20 to 2025-02-21



Figure 14: Map of "Number of iterations for vertical column retrieval" for 2025-02-20 to 2025-02-21



Figure 15: Map of the number of observations for 2025-02-20 to 2025-02-21

# 7 Zonal average



Figure 16: Zonal average of "QA value" for 2025-02-20 to 2025-02-21.



Figure 17: Zonal average of " $O_3$  vertical column" for 2025-02-20 to 2025-02-21.



Figure 18: Zonal average of "O<sub>3</sub> vertical column precision" for 2025-02-20 to 2025-02-21.



Figure 19: Zonal average of " $O_3$  slant column" for 2025-02-20 to 2025-02-21.



Figure 20: Zonal average of " $O_3$  slant column precision" for 2025-02-20 to 2025-02-21.



Figure 21: Zonal average of "Number of iterations for slant column retrieval" for 2025-02-20 to 2025-02-21.



Figure 22: Zonal average of "Fitting RMS" for 2025-02-20 to 2025-02-21.



Figure 23: Zonal average of "DOAS fit wavelength shift" for 2025-02-20 to 2025-02-21.



Figure 24: Zonal average of "DOAS fit wavelength squeeze" for 2025-02-20 to 2025-02-21.



Figure 25: Zonal average of "Airmass factor" for 2025-02-20 to 2025-02-21.



Figure 26: Zonal average of "Effective temperature" for 2025-02-20 to 2025-02-21.



Figure 27: Zonal average of "Number of iterations for vertical column retrieval" for 2025-02-20 to 2025-02-21.

## 8 Histograms

The definitions of the parameters given in this section can be found in section 2.



Figure 28: Histogram of "QA value" for 2025-02-20 to 2025-02-21



Figure 29: Histogram of "O3 vertical column" for 2025-02-20 to 2025-02-21



Figure 30: Histogram of "O3 vertical column precision" for 2025-02-20 to 2025-02-21



Figure 31: Histogram of "O<sub>3</sub> slant column" for 2025-02-20 to 2025-02-21



Figure 32: Histogram of "O3 slant column precision" for 2025-02-20 to 2025-02-21



Figure 33: Histogram of "Number of iterations for slant column retrieval" for 2025-02-20 to 2025-02-21



Figure 34: Histogram of "Fitting RMS" for 2025-02-20 to 2025-02-21



Figure 35: Histogram of "DOAS fit wavelength shift" for 2025-02-20 to 2025-02-21



Figure 36: Histogram of "DOAS fit wavelength squeeze" for 2025-02-20 to 2025-02-21



Figure 37: Histogram of "Airmass factor" for 2025-02-20 to 2025-02-21



Figure 38: Histogram of "Effective temperature" for 2025-02-20 to 2025-02-21



Figure 39: Histogram of "Number of iterations for vertical column retrieval" for 2025-02-20 to 2025-02-21

## 9 Along track statistics

The TROPOMI instrument uses different binned detector rows for different viewing directions. In this section statistics are presented for each of the binned rows in the instrument.



Figure 40: Along track statistics of "QA value" for 2025-02-20 to 2025-02-21



Figure 41: Along track statistics of "O3 vertical column" for 2025-02-20 to 2025-02-21



Figure 42: Along track statistics of "O<sub>3</sub> vertical column precision" for 2025-02-20 to 2025-02-21



Figure 43: Along track statistics of " $O_3$  slant column" for 2025-02-20 to 2025-02-21



Figure 44: Along track statistics of "O<sub>3</sub> slant column precision" for 2025-02-20 to 2025-02-21



Figure 45: Along track statistics of "Number of iterations for slant column retrieval" for 2025-02-20 to 2025-02-21



Figure 46: Along track statistics of "Fitting RMS" for 2025-02-20 to 2025-02-21



Figure 47: Along track statistics of "DOAS fit wavelength shift" for 2025-02-20 to 2025-02-21



Figure 48: Along track statistics of "DOAS fit wavelength squeeze" for 2025-02-20 to 2025-02-21



Figure 49: Along track statistics of "Airmass factor" for 2025-02-20 to 2025-02-21



Figure 50: Along track statistics of "Effective temperature" for 2025-02-20 to 2025-02-21



Figure 51: Along track statistics of "Number of iterations for vertical column retrieval" for 2025-02-20 to 2025-02-21

## 10 Coincidence density

To investigate the relation between parameters scatter density plots are produced. These include some 'hidden' parameters, latitude and the solar- and viewing geometries, in addition to all configured parameters. All combinations of pairs of parameters are included *once*, in one direction alone.

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Maarten Sneep (maarten.sneep@knmi.nl).