PyCAMA report generated by tropl2-proc

tropl2-proc

2025-06-13 (03:15)

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: Parameterlist and basic statistics for the anal
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Table 1: Parameterlist and basic statistics for the analysis							
Variable	mean $\pm \sigma$	Count	Mode	IQR	Median	Minimum	Maximum
qa value [1]	0.970 ± 0.105	23437052	0.995	0.0	1.000	0.350	1.000
cloud pressure crb [hPa]	784 ± 205	23437052	$1.015 imes 10^3$	304	850	130	$1.055 imes 10^3$
cloud pressure crb precision [hPa]	2.57 ± 9.65	23437052	0.750	1.39	0.689	2.930×10^{-3}	$1.486 imes 10^3$
cloud fraction crb [1]	0.423 ± 0.357	23437052	0.996	0.658	0.330	0.0	1.000
cloud fraction crb precision [1]	$(1.753 \pm 7.983) \times 10^{-4}$	23437052	$2.500 imes10^{-4}$	6.769×10^{-5}	8.367×10^{-5}	$4.383 imes 10^{-9}$	0.133
scene albedo [1]	0.419 ± 0.289	23437052	$1.500 imes10^{-2}$	0.485	0.384	$-2.848 imes 10^{-3}$	6.07
scene albedo precision [1]	$(7.792 \pm 7.951) \times 10^{-5}$	23437052	$2.500 imes10^{-4}$	5.619×10^{-5}	$5.397 imes10^{-5}$	1.064×10^{-5}	7.269×10^{-3}
apparent scene pressure [hPa]	818 ± 181	23437052	1.016×10^3	254	878	130	$1.059 imes 10^3$
apparent scene pressure precision [hPa]	1.02 ± 1.92	23437052	0.500	0.533	0.454	7.752×10^{-2}	65.4
chi square [1]	$(0.211 \pm 2.426) \times 10^5$	23437052	0.150	$2.349 imes 10^4$	$1.269 imes 10^4$	44.6	$2.958 imes10^8$
number of iterations [1]	3.26 ± 0.92	23437052	3.23	1.000	3.00	1.000	14.0
fluorescence [mol s ^{-1} m ^{-2} nm ^{-1} sr ^{-1}]	$(1.180 \pm 6.099) \times 10^{-9}$	23437052	$7.500 imes 10^{-10}$	4.773×10^{-9}	$1.007 imes 10^{-9}$	-2.206×10^{-6}	2.122×10^{-6}
fluorescence precision [mol s ^{-1} m ^{-2} nm ^{-1} sr ^{-1}]	$(1.806 \pm 0.765) \times 10^{-9}$	23437052	$8.500 imes 10^{-10}$	$1.179 imes 10^{-9}$	1.746×10^{-9}	$4.539 imes 10^{-10}$	5.897×10^{-9}
chi square fluorescence [1]	$(0.652 \pm 1.027) \times 10^5$	23437052	750	$7.270 imes 10^4$	$2.770 imes 10^4$	96.2	$2.792 imes 10^6$
degrees of freedom fluorescence [1]	6.00 ± 0.00	23437052	5.95	0.0	6.00	6.00	6.00
number of spectral points in retrieval [1]	50.0 ± 0.1	23437052	49.7	0.0	50.0	45.0	50.0
wavelength calibration offset [nm]	$(3.887 \pm 8.517) \times 10^{-3}$	23437052	3.600×10^{-3}	$5.794 imes 10^{-3}$	$3.884 imes 10^{-3}$	-0.184	0.360

Table 2: Percentile ranges										
Variable	1 %	5%	10 %	15.9 %	25 %	75 %	84.1 %	90%	95 %	99 %
qa value [1]	0.500	0.900	0.900	1.000	1.000	1.000	1.000	1.000	1.000	1.000
cloud pressure crb [hPa]	254	381	463	540	648	952	982	1.002×10^3	1.013×10^3	1.020×10^3
cloud pressure crb precision [hPa]	0.201	0.242	0.267	0.296	0.356	1.74	2.93	4.76	9.24	31.6
cloud fraction crb [1]	$1.507 imes10^{-3}$	$1.116 imes10^{-2}$	$2.447 imes10^{-2}$	$4.452 imes 10^{-2}$	$8.597 imes10^{-2}$	0.744	0.947	1.000	1.000	1.000
cloud fraction crb precision [1]	$2.076 imes10^{-5}$	$2.432 imes 10^{-5}$	$2.807 imes10^{-5}$	$3.449 imes 10^{-5}$	$5.006 imes 10^{-5}$	$1.178 imes10^{-4}$	$1.925 imes 10^{-4}$	$3.019 imes 10^{-4}$	$5.169 imes10^{-4}$	1.382×10^{-3}
scene albedo [1]	$8.035 imes 10^{-3}$	$2.110 imes10^{-2}$	$4.129 imes 10^{-2}$	$7.816 imes10^{-2}$	0.173	0.658	0.767	0.831	0.893	1.01
scene albedo precision [1]	1.351×10^{-5}	1.644×10^{-5}	$2.094 imes 10^{-5}$	2.771×10^{-5}	3.463×10^{-5}	9.082×10^{-5}	1.166×10^{-4}	1.536×10^{-4}	$2.255 imes 10^{-4}$	4.122×10^{-4}
apparent scene pressure [hPa]	335	448	529	607	710	963	989	1.004×10^{3}	1.014×10^{3}	1.020×10^{3}
apparent scene pressure precision [hPa]	0.216	0.244	0.265	0.285	0.319	0.851	1.36	2.14	3.77	9.49
chi square [1]	222	552	1.109×10^{3}	1.994×10^{3}	3.916×10^{3}	2.741×10^{4}	3.739×10^{4}	4.670×10^{4}	5.697×10^{4}	7.467×10^{4}
number of iterations [1]	2.00	2.00	2.00	3.00	3.00	4.00	4.00	4.00	5.00	6.00
fluorescence [mol s ^{-1} m ^{-2} nm ^{-1} sr ^{-1}]	-1.501×10^{-8}	-7.211×10^{-9}	-4.297×10^{-9}	-2.626×10^{-9}	-1.144×10^{-9}	3.629×10^{-9}	5.486×10^{-9}	7.323×10^{-9}	$9.939 imes 10^{-9}$	1.583×10^{-8}
fluorescence precision [mol s ^{-1} m ^{-2} nm ^{-1} sr ^{-1}]	$6.890 imes 10^{-10}$	7.982×10^{-10}	8.763×10^{-10}	9.673×10^{-10}	1.139×10^{-9}	2.318×10^{-9}	2.614×10^{-9}	2.826×10^{-9}	3.167×10^{-9}	3.858×10^{-9}
chi square fluorescence [1]	411	1.082×10^{3}	2.176×10^{3}	3.901×10^{3}	7.609×10^{3}	8.031×10^{4}	1.187×10^{5}	1.674×10^{5}	2.535×10^{5}	5.013×10^{5}
degrees of freedom fluorescence [1]	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
number of spectral points in retrieval [1]	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
wavelength calibration offset [nm]	$-2.376 imes 10^{-2}$	-8.665×10^{-3}	-3.647×10^{-3}	-1.045×10^{-3}	1.023×10^{-3}	$6.817 imes 10^{-3}$	8.913×10^{-3}	1.151×10^{-2}	$1.644 imes 10^{-2}$	3.087×10^{-2}

Table 3: Parameterlist and basic statistics for the anal	usis for observations in the northern hemisphere
Table 5. I diameternist and basic statistics for the anal	ysis for observations in the northern nerinsphere

Variable	mean $\pm \sigma$	Count	IQR	Median	Minimum	Maximum	25 % percentile	75 % percentile
qa value [1]	0.956 ± 0.125	15572813	0.0	1.000	0.350	1.000	1.000	1.000
cloud pressure crb [hPa]	784 ± 207	15572813	309	844	130	$1.055 imes 10^3$	649	958
cloud pressure crb precision [hPa]	1.87 ± 6.97	15572813	1.11	0.583	$2.930 imes10^{-3}$	1.404×10^3	0.312	1.43
cloud fraction crb [1]	0.469 ± 0.369	15572813	0.744	0.395	0.0	1.000	0.109	0.853
cloud fraction crb precision [1]	$(2.101 \pm 9.732) \times 10^{-4}$	15572813	7.079×10^{-5}	$9.045 imes 10^{-5}$	$4.383 imes10^{-9}$	0.133	$5.258 imes10^{-5}$	1.234×10^{-4}
scene albedo [1]	0.477 ± 0.287	15572813	0.488	0.468	$-2.114 imes10^{-3}$	4.36	0.241	0.729
scene albedo precision [1]	$(7.492 \pm 7.277) \times 10^{-5}$	15572813	$5.492 imes 10^{-5}$	$5.272 imes 10^{-5}$	$1.064 imes10^{-5}$	$1.677 imes10^{-3}$	3.399×10^{-5}	$8.890 imes10^{-5}$
apparent scene pressure [hPa]	825 ± 175	15572813	251	879	130	1.059×10^3	716	968
apparent scene pressure precision [hPa]	0.680 ± 1.012	15572813	0.320	0.384	$7.752 imes 10^{-2}$	46.6	0.294	0.615
chi square [1]	$(0.274 \pm 2.973) \times 10^5$	15572813	$2.881 imes 10^4$	$1.903 imes 10^4$	87.9	$2.958 imes 10^8$	6.813×10^{3}	$3.562 imes 10^4$
number of iterations [1]	3.41 ± 1.00	15572813	1.000	3.00	1.000	14.0	3.00	4.00
fluorescence [mol s ^{-1} m ^{-2} nm ^{-1} sr ^{-1}]	$(1.570\pm6.767)\times10^{-9}$	15572813	$6.001 imes 10^{-9}$	1.361×10^{-9}	$-2.206 imes10^{-6}$	$2.122 imes 10^{-6}$	$-1.348 imes 10^{-9}$	$4.653 imes 10^{-9}$
fluorescence precision [mol s ^{-1} m ^{-2} nm ^{-1} sr ^{-1}]	$(2.008 \pm 0.766) \times 10^{-9}$	15572813	1.137×10^{-9}	2.004×10^{-9}	4.539×10^{-10}	$5.897 imes 10^{-9}$	1.392×10^{-9}	2.529×10^{-9}
chi square fluorescence [1]	$(0.795 \pm 1.084) \times 10^5$	15572813	$8.382 imes 10^4$	$4.478 imes 10^4$	119	$2.792 imes 10^6$	1.510×10^4	$9.892 imes 10^4$
degrees of freedom fluorescence [1]	6.00 ± 0.00	15572813	0.0	6.00	6.00	6.00	6.00	6.00
number of spectral points in retrieval [1]	50.0 ± 0.1	15572813	0.0	50.0	45.0	50.0	50.0	50.0
wavelength calibration offset [nm]	$(3.948 \pm 6.882) \times 10^{-3}$	15572813	4.895×10^{-3}	3.894×10^{-3}	-8.127×10^{-2}	8.672×10^{-2}	1.482×10^{-3}	6.377×10^{-3}

Table 4: Parameterlist and basic statistics for the analysis for observations in the southern hemisphere								
Variable	mean $\pm \sigma$	Count	IQR	Median	Minimum	Maximum	25 % percentile	75 % percentile
qa value [1]	0.998 ± 0.023	7864239	0.0	1.000	0.350	1.000	1.000	1.000
cloud pressure crb [hPa]	783 ± 201	7864239	293	859	130	1.032×10^{3}	646	939
cloud pressure crb precision [hPa]	3.95 ± 13.36	7864239	2.21	0.928	$2.020 imes 10^{-2}$	1.486×10^{3}	0.479	2.69
cloud fraction crb [1]	0.332 ± 0.312	7864239	0.511	0.233	0.0	1.000	5.120×10^{-2}	0.562
cloud fraction crb precision [1]	$(1.065 \pm 1.285) imes 10^{-4}$	7864239	$6.796 imes 10^{-5}$	$7.592 imes 10^{-5}$	3.262×10^{-7}	$3.294 imes 10^{-2}$	$4.499 imes 10^{-5}$	$1.129 imes10^{-4}$
scene albedo [1]	0.304 ± 0.257	7864239	0.397	0.252	$-2.848 imes 10^{-3}$	6.07	7.322×10^{-2}	0.470
scene albedo precision [1]	$(8.385 \pm 9.109) \times 10^{-5}$	7864239	$5.894 imes10^{-5}$	$5.651 imes 10^{-5}$	$1.180 imes10^{-5}$	$7.269 imes 10^{-3}$	3.596×10^{-5}	$9.490 imes 10^{-5}$
apparent scene pressure [hPa]	805 ± 191	7864239	265	876	130	1.032×10^{3}	688	953
apparent scene pressure precision [hPa]	1.70 ± 2.87	7864239	1.17	0.676	$9.236 imes 10^{-2}$	65.4	0.442	1.61
chi square [1]	$(0.872 \pm 1.071) \times 10^4$	7864239	$1.077 imes 10^4$	5.986×10^{3}	44.6	7.522×10^6	1.712×10^{3}	$1.248 imes 10^4$
number of iterations [1]	2.97 ± 0.65	7864239	0.0	3.00	1.000	14.0	3.00	3.00
fluorescence [mol s ^{-1} m ^{-2} nm ^{-1} sr ^{-1}]	$(4.072 \pm 43.927) \times 10^{-10}$	7864239	$3.053 imes 10^{-9}$	$6.149 imes 10^{-10}$	$-9.970 imes 10^{-7}$	$1.669 imes 10^{-6}$	$-8.871 imes 10^{-10}$	2.166×10^{-9}
fluorescence precision [mol s ^{-1} m ^{-2} nm ^{-1} sr ^{-1}]	$(1.408\pm0.587) imes10^{-9}$	7864239	$8.212 imes 10^{-10}$	$1.281 imes10^{-9}$	$5.355 imes 10^{-10}$	$5.323 imes 10^{-9}$	$9.227 imes 10^{-10}$	$1.744 imes 10^{-9}$
chi square fluorescence [1]	$(0.370 \pm 0.835) \times 10^5$	7864239	$2.603 imes 10^4$	9.330×10^{3}	96.2	$1.706 imes 10^6$	2.769×10^{3}	$2.880 imes 10^4$
degrees of freedom fluorescence [1]	6.00 ± 0.00	7864239	0.0	6.00	6.00	6.00	6.00	6.00
number of spectral points in retrieval [1]	50.0 ± 0.1	7864239	0.0	50.0	48.0	50.0	50.0	50.0
wavelength calibration offset [nm]	$(3.766 \pm 11.062) \times 10^{-3}$	7864239	8.479×10^{-3}	3.850×10^{-3}	-0.184	0.360	-3.823×10^{-4}	8.097×10^{-3}

	Table 5: Parameterlist and	d basic statis	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]	0.976 ± 0.082	15653289	0.0	1.000	0.350	1.000	1.000	1.000
cloud pressure crb [hPa]	800 ± 201	15653289	293	872	130	1.032×10^3	669	961
cloud pressure crb precision [hPa]	2.56 ± 10.25	15653289	1.17	0.634	$3.235 imes 10^{-3}$	1.224×10^{3}	0.354	1.52
cloud fraction crb [1]	0.431 ± 0.352	15653289	0.651	0.364	0.0	1.000	$8.958 imes10^{-2}$	0.741
cloud fraction crb precision [1]	$(1.636 \pm 8.032) \times 10^{-4}$	15653289	$7.327 imes 10^{-5}$	$7.036 imes 10^{-5}$	$2.983 imes10^{-7}$	0.101	$3.594 imes10^{-5}$	$1.092 imes 10^{-4}$
scene albedo [1]	0.384 ± 0.305	15653289	0.564	0.340	$-2.848 imes 10^{-3}$	6.07	$8.592 imes10^{-2}$	0.650
scene albedo precision [1]	$(7.794 \pm 8.149) \times 10^{-5}$	15653289	$6.364 imes 10^{-5}$	$5.673 imes 10^{-5}$	$1.064 imes10^{-5}$	$7.269 imes 10^{-3}$	$2.986 imes10^{-5}$	$9.350 imes 10^{-5}$
apparent scene pressure [hPa]	822 ± 189	15653289	262	889	130	1.059×10^{3}	711	973
apparent scene pressure precision [hPa]	1.31 ± 2.29	15653289	0.891	0.546	$7.752 imes 10^{-2}$	65.4	0.334	1.22
chi square [1]	$(0.170 \pm 1.567) \times 10^5$	15653289	$2.117 imes 10^4$	8.415×10^{3}	44.6	$2.958 imes 10^8$	2.497×10^{3}	2.366×10^4
number of iterations [1]	3.07 ± 0.85	15653289	0.0	3.00	1.000	14.0	3.00	3.00
fluorescence [mol s ^{-1} m ^{-2} nm ^{-1} sr ^{-1}]	$(8.011 \pm 52.156) \times 10^{-10}$	15653289	$4.084 imes 10^{-9}$	$7.212 imes 10^{-10}$	$-2.206 imes 10^{-6}$	$1.557 imes 10^{-6}$	$-1.173 imes 10^{-9}$	$2.911 imes10^{-9}$
fluorescence precision [mol s ^{-1} m ^{-2} nm ^{-1} sr ^{-1}]	$(1.664 \pm 0.743) \times 10^{-9}$	15653289	1.160×10^{-9}	$1.512 imes 10^{-9}$	4.539×10^{-10}	5.618×10^{-9}	$1.025 imes 10^{-9}$	$2.186 imes 10^{-9}$
chi square fluorescence [1]	$(0.515\pm0.868)\times10^5$	15653289	$5.984 imes 10^4$	$1.996 imes 10^4$	96.2	$2.792 imes 10^6$	5.256×10^3	$6.509 imes 10^4$
degrees of freedom fluorescence [1]	6.00 ± 0.00	15653289	0.0	6.00	6.00	6.00	6.00	6.00
number of spectral points in retrieval [1]	50.0 ± 0.1	15653289	0.0	50.0	48.0	50.0	50.0	50.0
wavelength calibration offset [nm]	$(3.841 \pm 9.608) \times 10^{-3}$	15653289	$6.435 imes 10^{-3}$	3.841×10^{-3}	-0.184	0.360	$6.537 imes10^{-4}$	$7.088 imes 10^{-3}$

Table 6: Parameterlist and basic statistics for the an	alveis for observations over land
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Variable	mean $\pm \sigma$	Count	IQR	Median	Minimum	Maximum	25 % percentile	75 % percentile
qa value [1]	0.944 ± 0.157	5549212	0.0	1.000	0.350	1.000	1.000	1.000
cloud pressure crb [hPa]	752 ± 204	5549212	300	797	130	1.052×10^3	623	923
cloud pressure crb precision [hPa]	2.67 ± 8.39	5549212	1.89	0.905	2.930×10^{-3}	1.404×10^3	0.359	2.25
cloud fraction crb [1]	0.405 ± 0.372	5549212	0.689	0.246	0.0	1.000	7.721×10^{-2}	0.766
cloud fraction crb precision [1]	$(2.112\pm8.181)\times10^{-4}$	5549212	$7.059 imes 10^{-5}$	$1.000 imes 10^{-4}$	$4.383 imes 10^{-9}$	0.133	$7.228 imes 10^{-5}$	$1.429 imes10^{-4}$
scene albedo [1]	0.496 ± 0.241	5549212	0.390	0.438	1.777×10^{-2}	4.36	0.293	0.683
scene albedo precision [1]	$(7.843 \pm 7.393) \times 10^{-5}$	5549212	$4.705 imes 10^{-5}$	4.982×10^{-5}	$1.263 imes 10^{-5}$	1.154×10^{-3}	$3.814 imes 10^{-5}$	$8.519 imes10^{-5}$
apparent scene pressure [hPa]	809 ± 158	5549212	233	851	130	1.052×10^{3}	708	941
apparent scene pressure precision [hPa]	0.447 ± 0.268	5549212	0.206	0.380	$9.886 imes 10^{-2}$	7.64	0.297	0.504
chi square [1]	$(0.300 \pm 3.379) \times 10^5$	5549212	$2.158 imes 10^4$	$1.945 imes 10^4$	196	$1.515 imes 10^8$	1.100×10^4	3.258×10^4
number of iterations [1]	3.67 ± 0.96	5549212	1.000	4.00	1.000	14.0	3.00	4.00
fluorescence [mol s ^{-1} m ^{-2} nm ^{-1} sr ^{-1}]	$(1.769 \pm 7.104) \times 10^{-9}$	5549212	$6.265 imes 10^{-9}$	1.692×10^{-9}	-1.331×10^{-6}	$1.669 imes 10^{-6}$	-1.190×10^{-9}	$5.076 imes 10^{-9}$
fluorescence precision [mol s ^{-1} m ^{-2} nm ^{-1} sr ^{-1}]	$(2.089 \pm 0.715) \times 10^{-9}$	5549212	$9.883 imes 10^{-10}$	$2.087 imes 10^{-9}$	4.931×10^{-10}	5.860×10^{-9}	1.590×10^{-9}	$2.579 imes 10^{-9}$
chi square fluorescence [1]	$(0.884 \pm 1.173) \times 10^5$	5549212	$9.705 imes 10^4$	$4.419 imes 10^4$	139	$2.414 imes 10^6$	$1.579 imes 10^4$	$1.128 imes 10^5$
degrees of freedom fluorescence [1]	6.00 ± 0.00	5549212	0.0	6.00	6.00	6.00	6.00	6.00
number of spectral points in retrieval [1]	50.0 ± 0.1	5549212	0.0	50.0	48.0	50.0	50.0	50.0
wavelength calibration offset [nm]	$(3.916 \pm 5.158) \times 10^{-3}$	5549212	4.571×10^{-3}	3.893×10^{-3}	-5.574×10^{-2}	6.201×10^{-2}	1.646×10^{-3}	6.217×10^{-3}

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 "Cloud pressure" for 2025-06-11 to 2025-06-12



Figure 5: Map of "Cloud fraction" for 2025-06-11 to 2025-06-12



Figure 6: Map of "Scene albedo" for 2025-06-11 to 2025-06-12



Figure 7: Map of "Apparent scene pressure" for 2025-06-11 to 2025-06-12





Figure 8: Map of "Fluorescence" for 2025-06-11 to 2025-06-12



Figure 9: Map of the number of observations for 2025-06-11 to 2025-06-12

7 Zonal average



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

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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.

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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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