PyCAMA report generated by tropl2-proc

tropl2-proc

2025-01-09 (07:16)

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 stat	istics	for t	he ana	lysis
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Variable	Table 1: Parameter	list and basic	statistics for the a	nalysis	Madian	Minimum	Marinaria
variable	mean ± 0	Count	Mode	IQK	Median	Minimum	Maximum
qa value [1]	0.905 ± 0.186	22819697	0.995	0.1000	1.000	0.350	1.000
cloud pressure crb [hPa]	774 ± 195	22819697	1.015×10^{3}	290	823	130	1.039×10^{3}
cloud pressure crb precision [hPa]	2.46 ± 9.76	22819697	0.750	1.13	0.514	1.770×10^{-3}	1.317×10^3
cloud fraction crb [1]	0.492 ± 0.388	22819697	0.996	0.878	0.431	0.0	1.000
cloud fraction crb precision [1]	$(1.704 \pm 6.732) \times 10^{-4}$	22819697	$2.500 imes10^{-4}$	5.649×10^{-5}	8.137×10^{-5}	$2.973 imes10^{-8}$	0.499
scene albedo [1]	0.475 ± 0.331	22819697	$1.500 imes10^{-2}$	0.599	0.458	$-2.501 imes 10^{-3}$	4.16
scene albedo precision [1]	$(8.447 \pm 9.712) \times 10^{-5}$	22819697	$2.500 imes10^{-4}$	6.465×10^{-5}	$5.500 imes 10^{-5}$	$1.051 imes 10^{-5}$	$1.008 imes 10^{-2}$
apparent scene pressure [hPa]	804 ± 173	22819697	1.008×10^3	266	850	130	1.039×10^3
apparent scene pressure precision [hPa]	0.906 ± 1.628	22819697	0.500	0.451	0.413	$6.874 imes10^{-2}$	62.5
chi square [1]	$(0.231 \pm 1.566) \times 10^5$	22819697	0.150	$2.745 imes 10^4$	$1.615 imes 10^4$	62.3	3.777×10^{8}
number of iterations [1]	3.38 ± 1.05	22819697	3.23	1.000	3.00	1.000	14.0
fluorescence [mol s ^{-1} m ^{-2} nm ^{-1} sr ^{-1}]	$(1.647 \pm 6.639) \times 10^{-9}$	22819697	7.500×10^{-10}	$5.107 imes10^{-9}$	$1.474 imes 10^{-9}$	-1.738×10^{-6}	1.756×10^{-6}
fluorescence precision [mol s ^{-1} m ^{-2} nm ^{-1} sr ^{-1}]	$(1.744 \pm 0.708) \times 10^{-9}$	22819697	8.500×10^{-10}	1.059×10^{-9}	1.675×10^{-9}	3.981×10^{-10}	5.526×10^{-9}
chi square fluorescence [1]	$(0.510 \pm 0.977) \times 10^5$	22819697	1.250×10^{3}	$4.674 imes 10^4$	$1.587 imes10^4$	99.6	3.670×10^{6}
degrees of freedom fluorescence [1]	6.00 ± 0.00	22819697	5.95	0.0	6.00	6.00	6.00
number of spectral points in retrieval [1]	50.0 ± 0.1	22819697	49.7	0.0	50.0	44.0	50.0
wavelength calibration offset [nm]	$ (4.172 \pm 8.169) \times 10^{-3}$	22819697	4.400×10^{-3}	5.272×10^{-3}	4.173×10^{-3}	-0.132	0.103

Table 2: Percentile ranges											
Variable	1 %	5%	10 %	15.9 %	25 %	75 %	84.1 %	90 %	95 %	99 %	
qa value [1]	0.500	0.500	0.500	0.500	0.900	1.000	1.000	1.000	1.000	1.000	
cloud pressure crb [hPa]	254	387	480	571	647	936	969	988	1.008×10^3	1.018×10^3	
cloud pressure crb precision [hPa]	0.151	0.226	0.247	0.264	0.298	1.43	2.56	4.55	9.40	32.6	
cloud fraction crb [1]	$6.561 imes10^{-4}$	$1.069 imes10^{-2}$	$2.497 imes10^{-2}$	$4.842 imes 10^{-2}$	0.101	0.979	1.000	1.000	1.000	1.000	
cloud fraction crb precision [1]	$1.980 imes 10^{-5}$	2.337×10^{-5}	$2.666 imes 10^{-5}$	3.150×10^{-5}	4.351×10^{-5}	1.000×10^{-4}	$1.539 imes 10^{-4}$	2.892×10^{-4}	$6.823 imes 10^{-4}$	1.756×10^{-3}	
scene albedo [1]	$8.793 imes 10^{-3}$	$2.179 imes10^{-2}$	$4.301 imes 10^{-2}$	$7.779 imes 10^{-2}$	0.164	0.763	0.871	0.925	0.974	1.12	
scene albedo precision [1]	1.304×10^{-5}	1.570×10^{-5}	$1.938 imes10^{-5}$	2.450×10^{-5}	3.303×10^{-5}	$9.768 imes 10^{-5}$	$1.286 imes 10^{-4}$	$1.712 imes 10^{-4}$	2.592×10^{-4}	4.961×10^{-4}	
apparent scene pressure [hPa]	341	457	557	620	682	949	977	993	1.010×10^{3}	1.018×10^{3}	
apparent scene pressure precision [hPa]	0.211	0.235	0.252	0.268	0.297	0.748	1.15	1.82	3.42	8.16	
chi square [1]	289	727	1.646×10^{3}	3.126×10^{3}	5.833×10^{3}	3.329×10^{4}	4.291×10^{4}	5.107×10^{4}	6.133×10^{4}	8.213×10^4	
number of iterations [1]	2.00	2.00	2.00	3.00	3.00	4.00	4.00	5.00	5.00	7.00	
fluorescence [mol s ^{-1} m ^{-2} nm ^{-1} sr ^{-1}]	$-1.387 imes 10^{-8}$	-6.227×10^{-9}	-3.633×10^{-9}	$-2.179 imes 10^{-9}$	$-8.541 imes 10^{-10}$	$4.253 imes 10^{-9}$	$5.985 imes10^{-9}$	$7.669 imes 10^{-9}$	$1.007 imes10^{-8}$	$1.526 imes10^{-8}$	
fluorescence precision [mol s ^{-1} m ^{-2} nm ^{-1} sr ^{-1}]	$6.911 imes 10^{-10}$	$7.966 imes 10^{-10}$	$8.748 imes 10^{-10}$	$9.701 imes 10^{-10}$	1.149×10^{-9}	$2.208 imes 10^{-9}$	2.496×10^{-9}	2.660×10^{-9}	$2.968 imes 10^{-9}$	3.665×10^{-9}	
chi square fluorescence [1]	423	1.011×10^{3}	1.551×10^{3}	2.260×10^{3}	3.973×10^{3}	5.072×10^{4}	8.564×10^{4}	1.319×10^{5}	2.324×10^{5}	5.012×10^{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]	$-2.228 imes 10^{-2}$	-7.726×10^{-3}	-2.908×10^{-3}	$-4.193 imes 10^{-4}$	1.524×10^{-3}	$6.797 imes 10^{-3}$	8.763×10^{-3}	1.131×10^{-2}	1.616×10^{-2}	3.053×10^{-2}	

Table 3. Parameterlist and basic statistics for the	analysis for observations in the northern hemisphere
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Variable	mean $\pm \sigma$	Count	IQR	Median	Minimum	Maximum	25 % percentile	75 % percentile
qa value [1]	0.988 ± 0.060	8772933	0.0	1.000	0.350	1.000	1.000	1.000
cloud pressure crb [hPa]	736 ± 219	8772933	364	792	130	$1.039 imes 10^3$	562	926
cloud pressure crb precision [hPa]	3.62 ± 12.59	8772933	1.94	0.876	$2.380 imes 10^{-3}$	$1.317 imes 10^3$	0.431	2.37
cloud fraction crb [1]	0.381 ± 0.349	8772933	0.604	0.261	0.0	1.000	$6.516 imes10^{-2}$	0.669
cloud fraction crb precision [1]	$(1.790\pm 8.330) imes 10^{-4}$	8772933	$1.011 imes10^{-4}$	$9.481 imes10^{-5}$	$3.925 imes 10^{-7}$	0.499	$5.229 imes 10^{-5}$	$1.534 imes 10^{-4}$
scene albedo [1]	0.412 ± 0.300	8772933	0.467	0.377	$-2.416 imes 10^{-3}$	4.16	0.157	0.624
scene albedo precision [1]	$(9.865 \pm 11.884) \times 10^{-5}$	8772933	$7.742 imes 10^{-5}$	$5.885 imes10^{-5}$	1.135×10^{-5}	$1.008 imes 10^{-2}$	$3.656 imes 10^{-5}$	$1.140 imes10^{-4}$
apparent scene pressure [hPa]	783 ± 191	8772933	290	836	130	$1.039 imes 10^3$	652	943
apparent scene pressure precision [hPa]	1.08 ± 1.87	8772933	0.528	0.515	$8.344 imes 10^{-2}$	62.5	0.365	0.892
chi square [1]	$(0.143 \pm 0.837) \times 10^5$	8772933	$1.500 imes 10^4$	$1.029 imes 10^4$	62.3	$7.584 imes10^7$	4.269×10^{3}	$1.927 imes 10^4$
number of iterations [1]	3.45 ± 1.10	8772933	1.000	3.00	1.000	14.0	3.00	4.00
fluorescence [mol s ^{-1} m ^{-2} nm ^{-1} sr ^{-1}]	$(1.037 \pm 4.333) \times 10^{-9}$	8772933	$3.531 imes10^{-9}$	$1.149 imes 10^{-9}$	$-1.236 imes 10^{-6}$	$9.848 imes 10^{-7}$	$-5.748 imes 10^{-10}$	2.957×10^{-9}
fluorescence precision [mol s ^{-1} m ^{-2} nm ^{-1} sr ^{-1}]	$(1.482 \pm 0.607) \times 10^{-9}$	8772933	$8.273 imes10^{-10}$	$1.381 imes10^{-9}$	3.981×10^{-10}	5.319×10^{-9}	$9.958 imes10^{-10}$	$1.823 imes 10^{-9}$
chi square fluorescence [1]	$(0.402 \pm 0.834) \times 10^5$	8772933	3.665×10^4	$1.136 imes 10^4$	99.6	$1.916 imes10^6$	3.032×10^3	$3.968 imes 10^4$
degrees of freedom fluorescence [1]	6.00 ± 0.00	8772933	0.0	6.00	6.00	6.00	6.00	6.00
number of spectral points in retrieval [1]	50.0 ± 0.1	8772933	0.0	50.0	48.0	50.0	50.0	50.0
wavelength calibration offset [nm]	$(4.225\pm 8.900) imes 10^{-3}$	8772933	$6.307 imes 10^{-3}$	4.144×10^{-3}	-8.394×10^{-2}	9.155×10^{-2}	1.016×10^{-3}	7.323×10^{-3}

Table 4. Parameterlist and basic statistics for the anal	vsis for observations in the southern hemisphere
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Variable	mean $\pm \sigma$	Count	IQR	Median	Minimum	Maximum	25 % percentile	75 % percentile
qa value [1]	0.853 ± 0.217	14046764	0.500	1.000	0.350	1.000	0.500	1.000
cloud pressure crb [hPa]	797 ± 175	14046764	266	841	130	1.025×10^3	675	941
cloud pressure crb precision [hPa]	1.73 ± 7.37	14046764	0.665	0.378	$1.770 imes10^{-3}$	1.066×10^3	0.269	0.935
cloud fraction crb [1]	0.562 ± 0.394	14046764	0.859	0.593	0.0	1.000	0.141	1.000
cloud fraction crb precision [1]	$(1.650\pm5.503) imes10^{-4}$	14046764	$6.113 imes10^{-5}$	$7.202 imes 10^{-5}$	$2.973 imes10^{-8}$	0.127	$3.887 imes10^{-5}$	$1.000 imes 10^{-4}$
scene albedo [1]	0.514 ± 0.343	14046764	0.666	0.537	$-2.501 imes 10^{-3}$	3.84	0.170	0.836
scene albedo precision [1]	$(7.561 \pm 7.936) \times 10^{-5}$	14046764	$5.948 imes 10^{-5}$	$5.290 imes10^{-5}$	$1.051 imes10^{-5}$	$4.699 imes 10^{-3}$	$3.054 imes10^{-5}$	$9.002 imes 10^{-5}$
apparent scene pressure [hPa]	817 ± 160	14046764	258	860	130	1.025×10^3	694	952
apparent scene pressure precision [hPa]	0.801 ± 1.447	14046764	0.368	0.356	$6.874 imes10^{-2}$	60.5	0.275	0.643
chi square [1]	$(0.286 \pm 1.881) \times 10^5$	14046764	$3.408 imes 10^4$	$2.350 imes 10^4$	90.3	$3.777 imes 10^8$	$8.033 imes 10^3$	$4.211 imes 10^4$
number of iterations [1]	3.34 ± 1.01	14046764	1.000	3.00	1.000	14.0	3.00	4.00
fluorescence [mol s ^{-1} m ^{-2} nm ^{-1} sr ^{-1}]	$(2.028 \pm 7.714) \times 10^{-9}$	14046764	$6.401 imes 10^{-9}$	1.856×10^{-9}	-1.738×10^{-6}	1.756×10^{-6}	-1.082×10^{-9}	5.319×10^{-9}
fluorescence precision [mol s ⁻¹ m ⁻² nm ⁻¹ sr ⁻¹]	$(1.907 \pm 0.718) \times 10^{-9}$	14046764	1.112×10^{-9}	$1.933 imes 10^{-9}$	4.451×10^{-10}	5.526×10^{-9}	1.310×10^{-9}	2.422×10^{-9}
chi square fluorescence [1]	$(0.578 \pm 1.050) \times 10^5$	14046764	$5.371 imes 10^4$	$1.913 imes 10^4$	122	$3.670 imes 10^6$	4.855×10^{3}	$5.856 imes 10^4$
degrees of freedom fluorescence [1]	6.00 ± 0.00	14046764	0.0	6.00	6.00	6.00	6.00	6.00
number of spectral points in retrieval [1]	50.0 ± 0.1	14046764	0.0	50.0	44.0	50.0	50.0	50.0
wavelength calibration offset [nm]	$(4.139 \pm 7.677) \times 10^{-3}$	14046764	4.720×10^{-3}	4.186×10^{-3}	-0.132	0.103	1.801×10^{-3}	6.521×10^{-3}

Table 5: Parameterlist and basic statistics for the analysis for observations over water										
Variable	mean $\pm \sigma$	Count	IQR	Median	Minimum	Maximum	25 % percentile	75 % percentile		
qa value [1]	0.981 ± 0.050	13835502	0.0	1.000	0.350	1.000	1.000	1.000		
cloud pressure crb [hPa]	807 ± 193	13835502	256	877	130	$1.035 imes 10^3$	697	954		
cloud pressure crb precision [hPa]	2.48 ± 10.05	13835502	1.13	0.578	1.770×10^{-3}	783	0.330	1.46		
cloud fraction crb [1]	0.398 ± 0.342	13835502	0.618	0.304	0.0	1.000	$7.798 imes10^{-2}$	0.696		
cloud fraction crb precision [1]	$(9.638 \pm 32.525) \times 10^{-5}$	13835502	$5.856 imes10^{-5}$	$5.283 imes10^{-5}$	$8.733 imes10^{-8}$	0.127	$3.078 imes 10^{-5}$	8.935×10^{-5}		
scene albedo [1]	0.346 ± 0.293	13835502	0.521	0.272	$-2.501 imes 10^{-3}$	4.16	$7.347 imes10^{-2}$	0.594		
scene albedo precision [1]	$(6.371 \pm 8.671) \times 10^{-5}$	13835502	$4.184 imes10^{-5}$	4.338×10^{-5}	1.051×10^{-5}	$1.008 imes 10^{-2}$	2.405×10^{-5}	$6.589 imes10^{-5}$		
apparent scene pressure [hPa]	827 ± 181	13835502	230	890	130	1.031×10^3	736	966		
apparent scene pressure precision [hPa]	1.23 ± 2.02	13835502	0.851	0.527	$6.874 imes10^{-2}$	62.5	0.319	1.17		
chi square [1]	$(0.181 \pm 1.701) \times 10^5$	13835502	$2.440 imes 10^4$	$1.023 imes 10^4$	62.3	3.777×10^8	3.101×10^{3}	$2.750 imes 10^4$		
number of iterations [1]	2.95 ± 0.79	13835502	0.0	3.00	1.000	14.0	3.00	3.00		
fluorescence [mol s ^{-1} m ^{-2} nm ^{-1} sr ^{-1}]	$(6.285\pm56.049)\times10^{-10}$	13835502	$4.470 imes 10^{-9}$	$4.444 imes 10^{-10}$	$-1.303 imes10^{-6}$	$1.320 imes 10^{-6}$	$-1.574 imes 10^{-9}$	$2.896 imes 10^{-9}$		
fluorescence precision [mol s ^{-1} m ^{-2} nm ^{-1} sr ^{-1}]	$(1.673 \pm 0.739) \times 10^{-9}$	13835502	$1.161 imes 10^{-9}$	1.529×10^{-9}	$3.981 imes 10^{-10}$	$5.508 imes10^{-9}$	$1.032 imes 10^{-9}$	2.193×10^{-9}		
chi square fluorescence [1]	$(0.514 \pm 0.956) \times 10^5$	13835502	$4.824 imes 10^4$	$1.833 imes 10^4$	99.6	$3.670 imes 10^6$	5.452×10^3	$5.369 imes 10^4$		
degrees of freedom fluorescence [1]	6.00 ± 0.00	13835502	0.0	6.00	6.00	6.00	6.00	6.00		
number of spectral points in retrieval [1]	50.0 ± 0.1	13835502	0.0	50.0	48.0	50.0	50.0	50.0		
wavelength calibration offset [nm]	$(4.117 \pm 9.673) \times 10^{-3}$	13835502	$6.707 imes10^{-3}$	4.126×10^{-3}	-0.132	0.103	7.473×10^{-4}	7.454×10^{-3}		

	Table 6: Parameterlist a	nd basic sta	tistics for the an	alysis for obser	vations over land			
Variable	mean $\pm \sigma$	Count	IQR	Median	Minimum	Maximum	25 % percentile	75 % percentile
qa value [1]	0.742 ± 0.252	7291730	0.500	0.500	0.350	1.000	0.500	1.000
cloud pressure crb [hPa]	725 ± 178	7291730	237	721	130	1.039×10^3	629	867
cloud pressure crb precision [hPa]	2.27 ± 9.06	7291730	0.934	0.347	$2.380 imes 10^{-3}$	1.317×10^3	0.260	1.19
cloud fraction crb [1]	0.679 ± 0.405	7291730	0.786	1.000	0.0	1.000	0.214	1.000
cloud fraction crb precision [1]	$(2.948 \pm 9.541) \times 10^{-4}$	7291730	$5.171 imes10^{-5}$	$1.000 imes 10^{-4}$	$6.715 imes10^{-8}$	0.312	$1.000 imes 10^{-4}$	$1.517 imes10^{-4}$
scene albedo [1]	0.704 ± 0.278	7291730	0.461	0.789	$-3.918 imes10^{-4}$	3.91	0.464	0.925
scene albedo precision [1]	$(1.166 \pm 0.992) \times 10^{-4}$	7291730	$7.595 imes10^{-5}$	$9.083 imes 10^{-5}$	1.296×10^{-5}	$1.818 imes10^{-3}$	$5.617 imes 10^{-5}$	$1.321 imes 10^{-4}$
apparent scene pressure [hPa]	765 ± 146	7291730	238	757	130	1.039×10^{3}	654	893
apparent scene pressure precision [hPa]	0.388 ± 0.186	7291730	0.169	0.333	0.153	24.7	0.272	0.441
chi square [1]	$(0.331 \pm 1.273) \times 10^5$	7291730	$2.781 imes 10^4$	2.652×10^4	163	7.584×10^{7}	$1.479 imes 10^4$	4.260×10^{4}
number of iterations [1]	4.09 ± 1.02	7291730	0.0	4.00	1.000	14.0	4.00	4.00
fluorescence [mol s ^{-1} m ^{-2} nm ^{-1} sr ^{-1}]	$(3.505 \pm 7.763) \times 10^{-9}$	7291730	$4.808 imes10^{-9}$	3.271×10^{-9}	$-1.738 imes 10^{-6}$	$1.473 imes 10^{-6}$	$1.198 imes10^{-9}$	$6.006 imes 10^{-9}$
fluorescence precision [mol s ^{-1} m ^{-2} nm ^{-1} sr ^{-1}]	$(1.891 \pm 0.633) \times 10^{-9}$	7291730	$8.472 imes 10^{-10}$	$1.870 imes 10^{-9}$	$4.723 imes 10^{-10}$	5.526×10^{-9}	$1.429 imes 10^{-9}$	$2.276 imes 10^{-9}$
chi square fluorescence [1]	$(0.443 \pm 0.918) \times 10^5$	7291730	$3.830 imes 10^4$	9.153×10^{3}	136	$1.838 imes 10^6$	2.415×10^{3}	4.072×10^4
degrees of freedom fluorescence [1]	6.00 ± 0.00	7291730	0.0	6.00	6.00	6.00	6.00	6.00
number of spectral points in retrieval [1]	50.0 ± 0.1	7291730	0.0	50.0	47.0	50.0	50.0	50.0
wavelength calibration offset [nm]	$(4.197 \pm 4.462) \times 10^{-3}$	7291730	3.500×10^{-3}	4.192×10^{-3}	-7.628×10^{-2}	7.869×10^{-2}	2.441×10^{-3}	5.941×10^{-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 2024-12-30 to 2024-12-30





Figure 5: Map of "Cloud fraction" for 2024-12-30 to 2024-12-30





Figure 6: Map of "Scene albedo" for 2024-12-30 to 2024-12-30





Figure 7: Map of "Apparent scene pressure" for 2024-12-30 to 2024-12-30

2024-12-30



Figure 8: Map of "Fluorescence" for 2024-12-30 to 2024-12-30



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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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